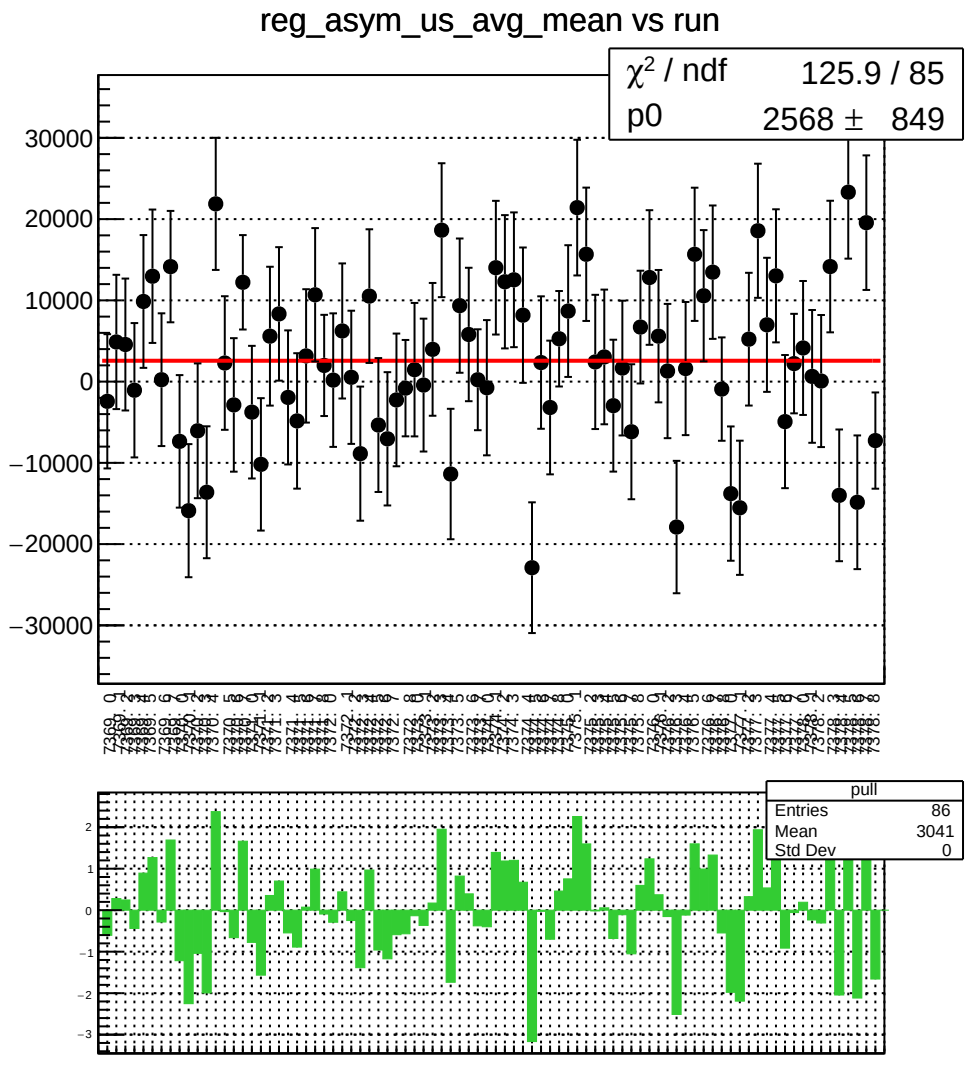
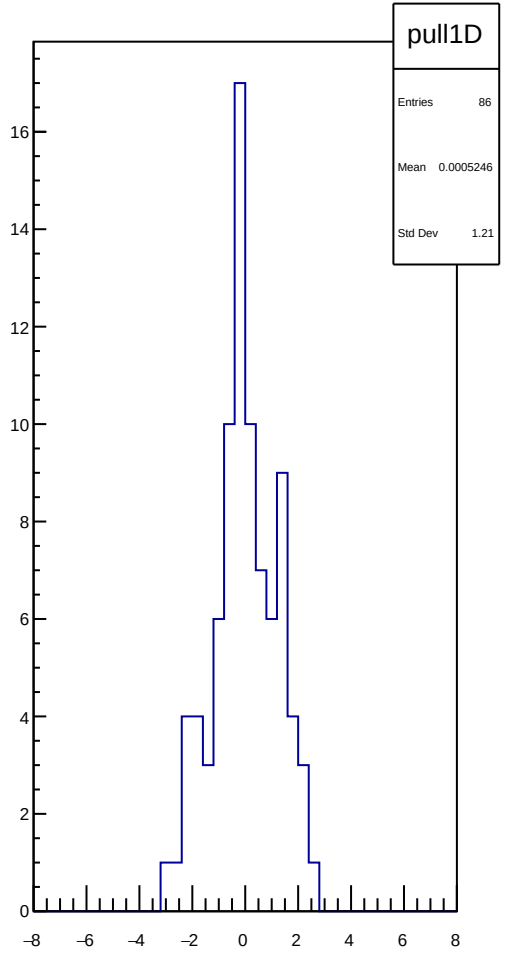
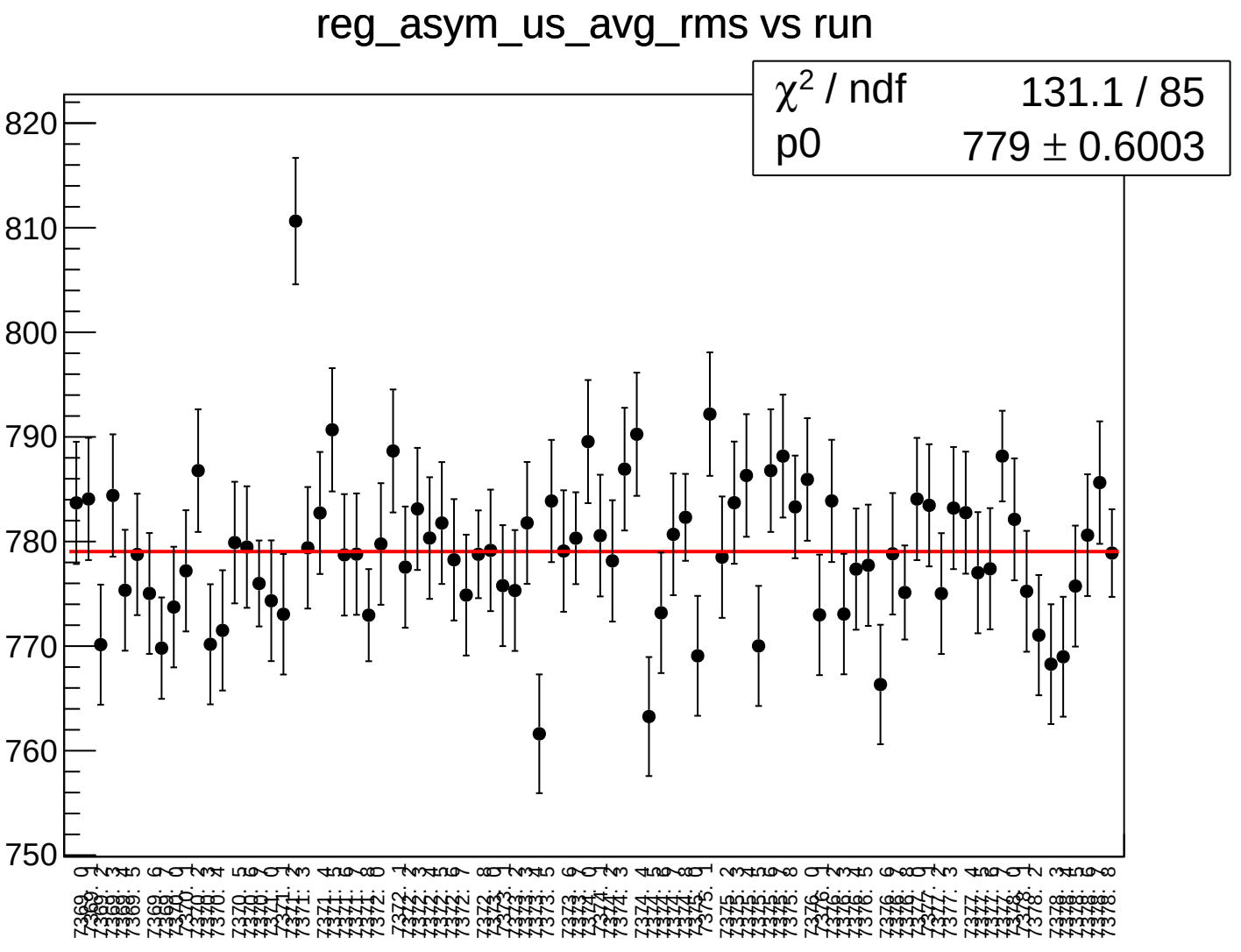
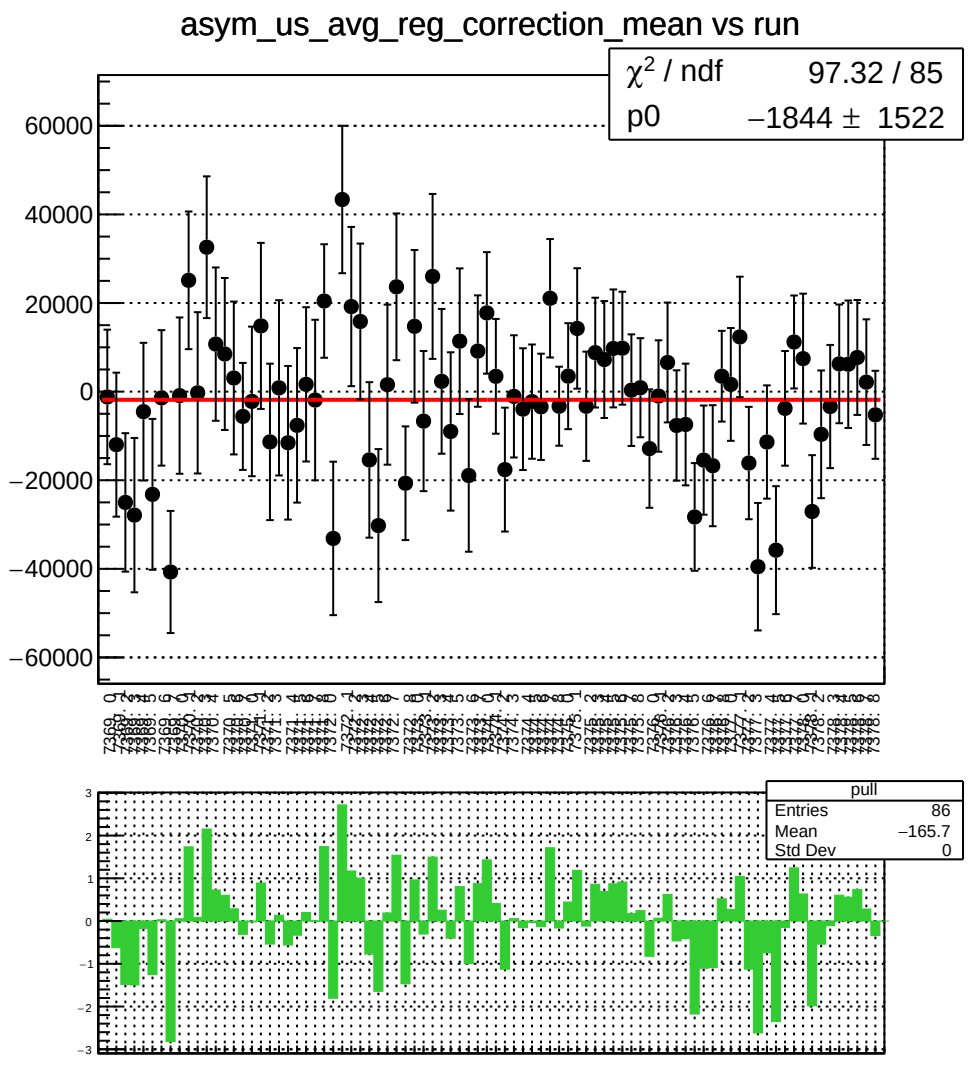
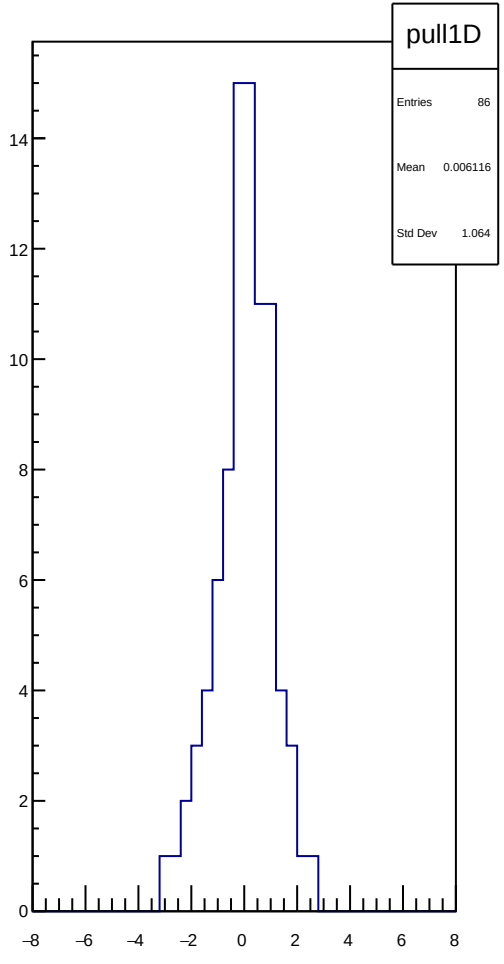
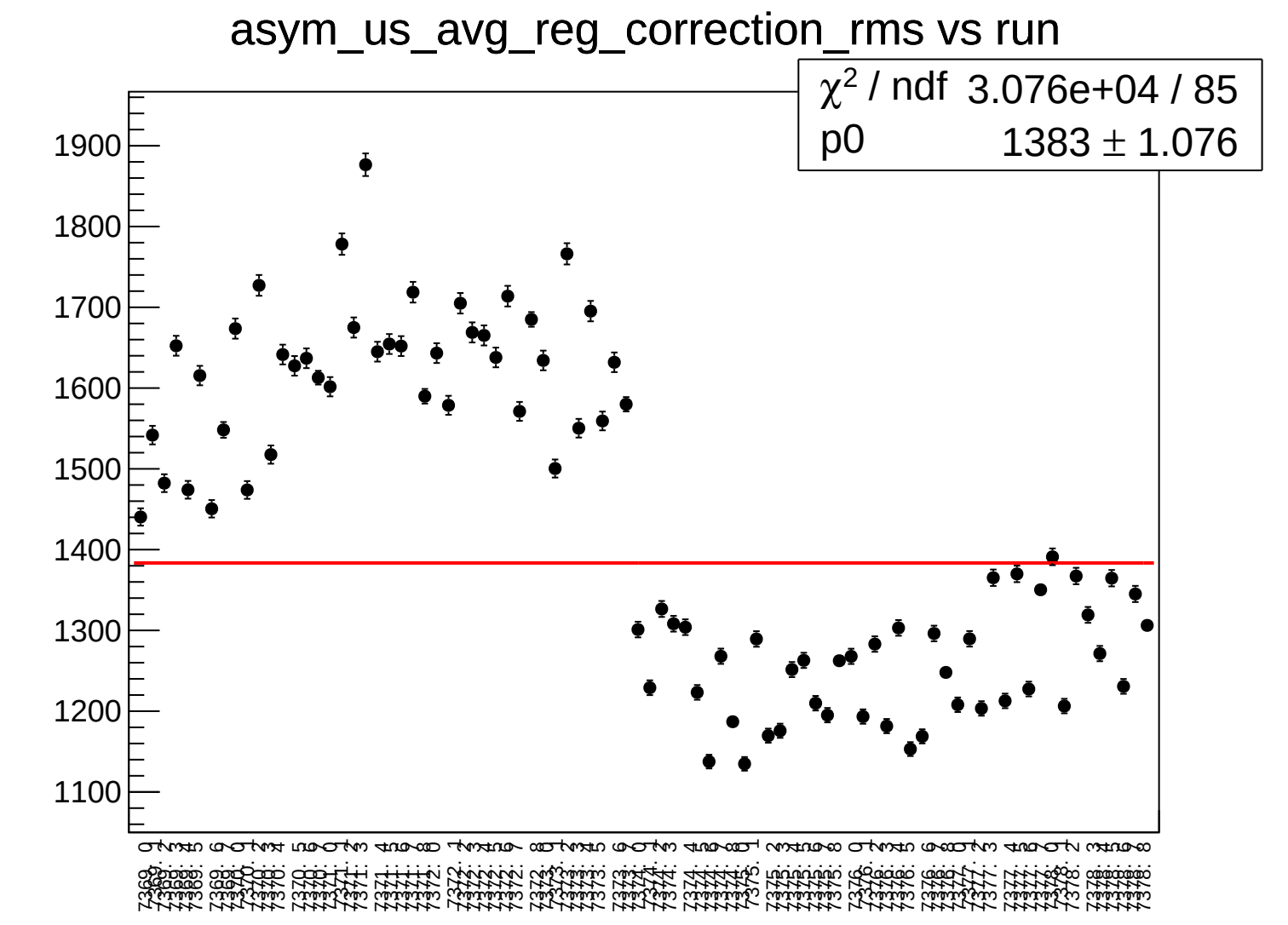

reg_asym_us_avg_mean vs run
χ² / ndf 125.9 / 85
p0 2568 ± 849
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 3041
Std Dev 0
2
1
0
−1
−2
−3

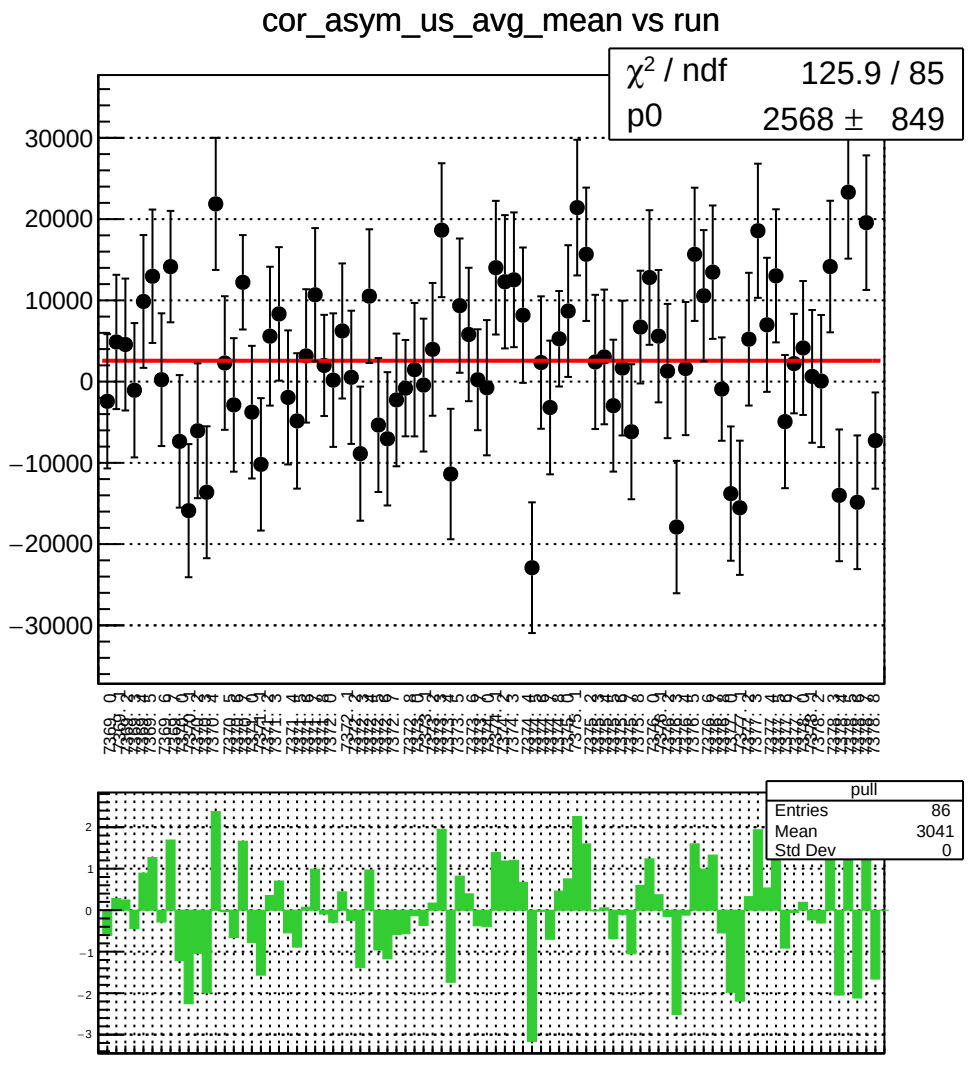

pull1D
Entries 86
Mean 0.0005246
Std Dev 1.21
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

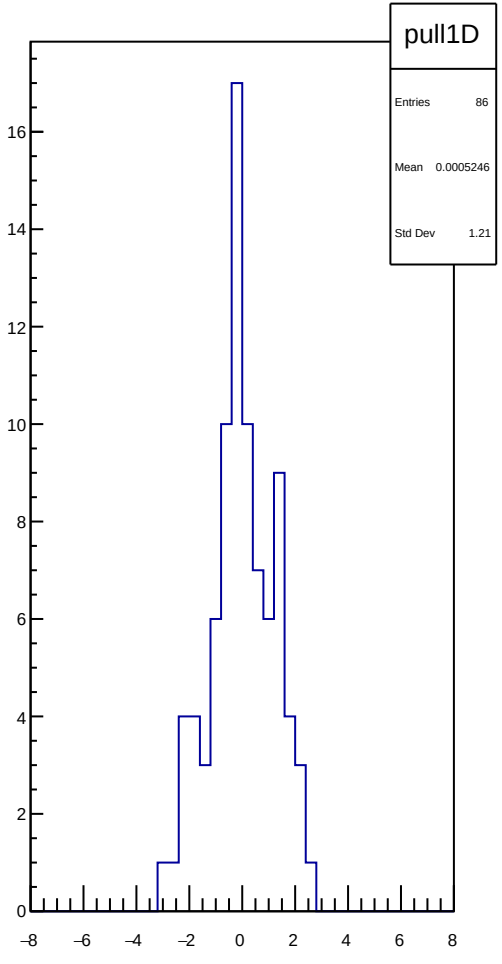

reg_asym_us_avg_rms vs run
χ^2 / ndf 131.1 / 85
p0 779 ± 0.6003
820
810
800
790
780
770
760
750


asym_us_avg_reg_correction_mean vs run
χ² / ndf 97.32 / 85
p0 −1844 ± 1522
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −165.7
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.006116
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 3.076e+04 / 85
p0 1383 ± 1.076
1900
1800
1700
1600
1500
1400
1300
1200
1100


cor_asym_us_avg_mean vs run
χ² / ndf 125.9 / 85
p0 2568 ± 849
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 3041
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.0005246
Std Dev 1.21
16
14
12
10
8
6
4
2
0
−8
−6
−4
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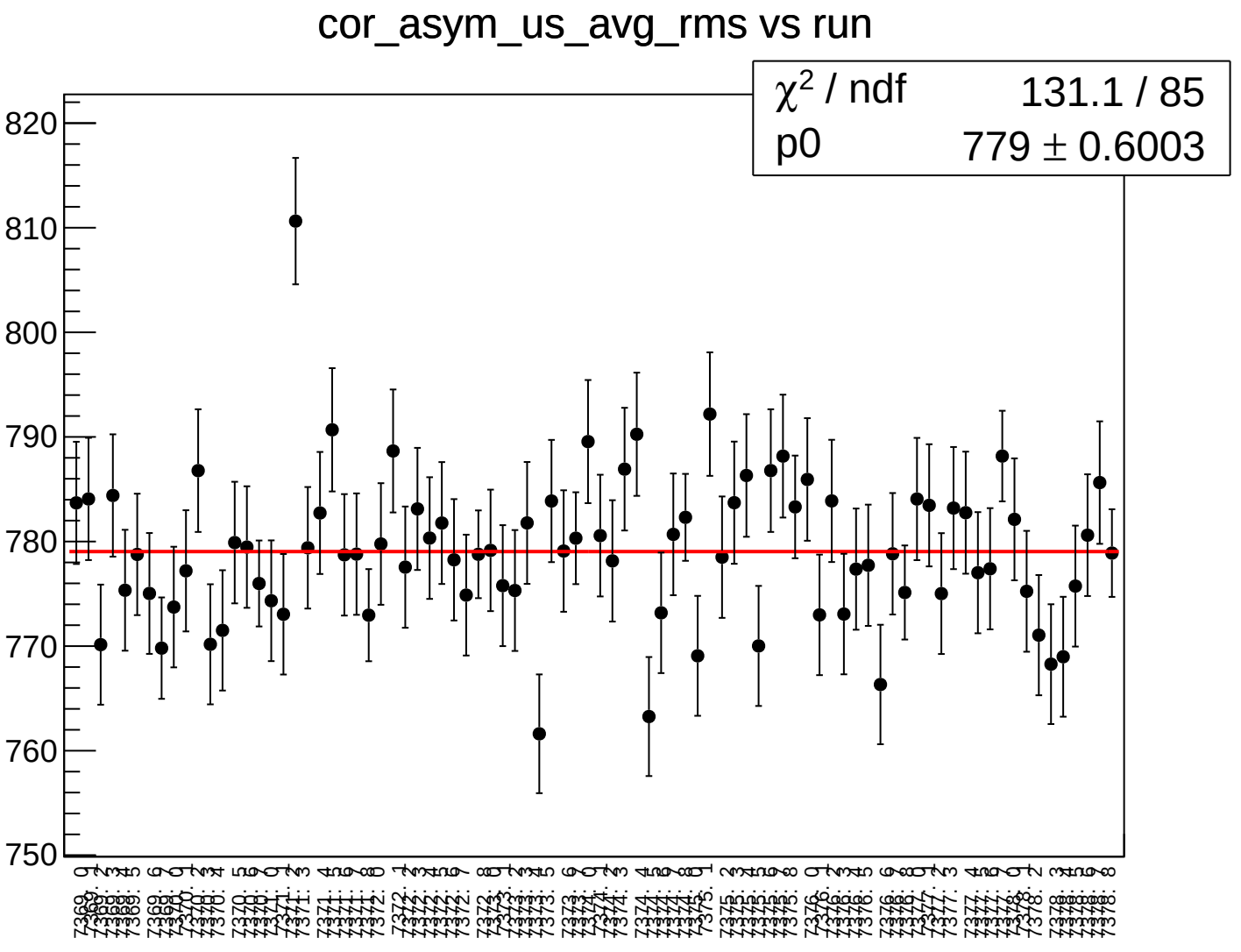
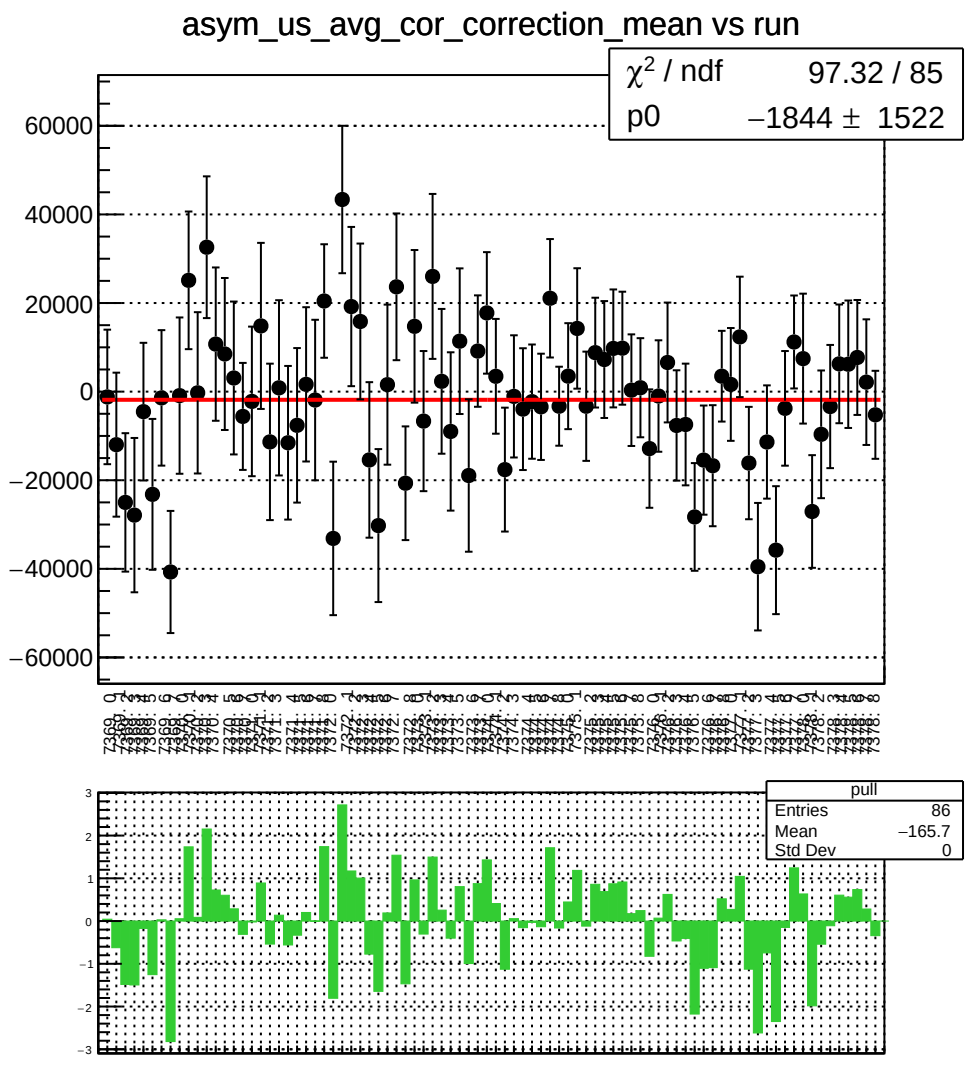
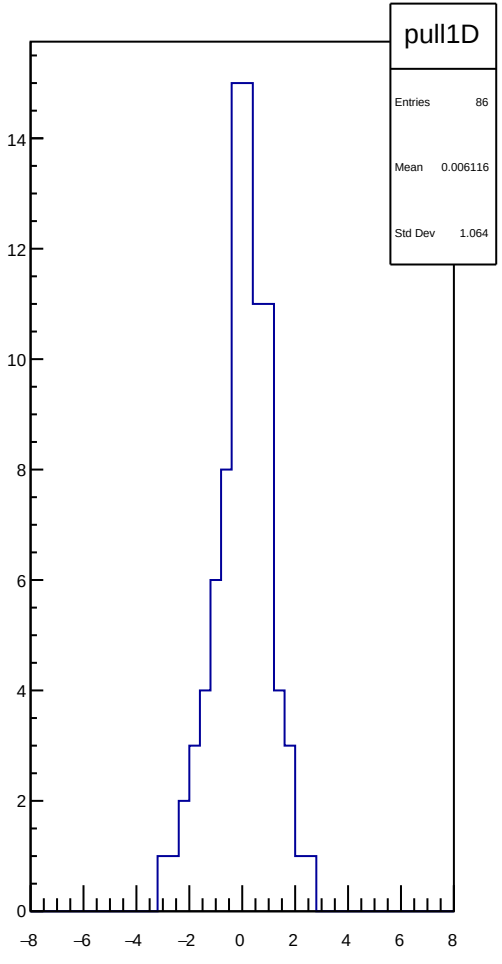
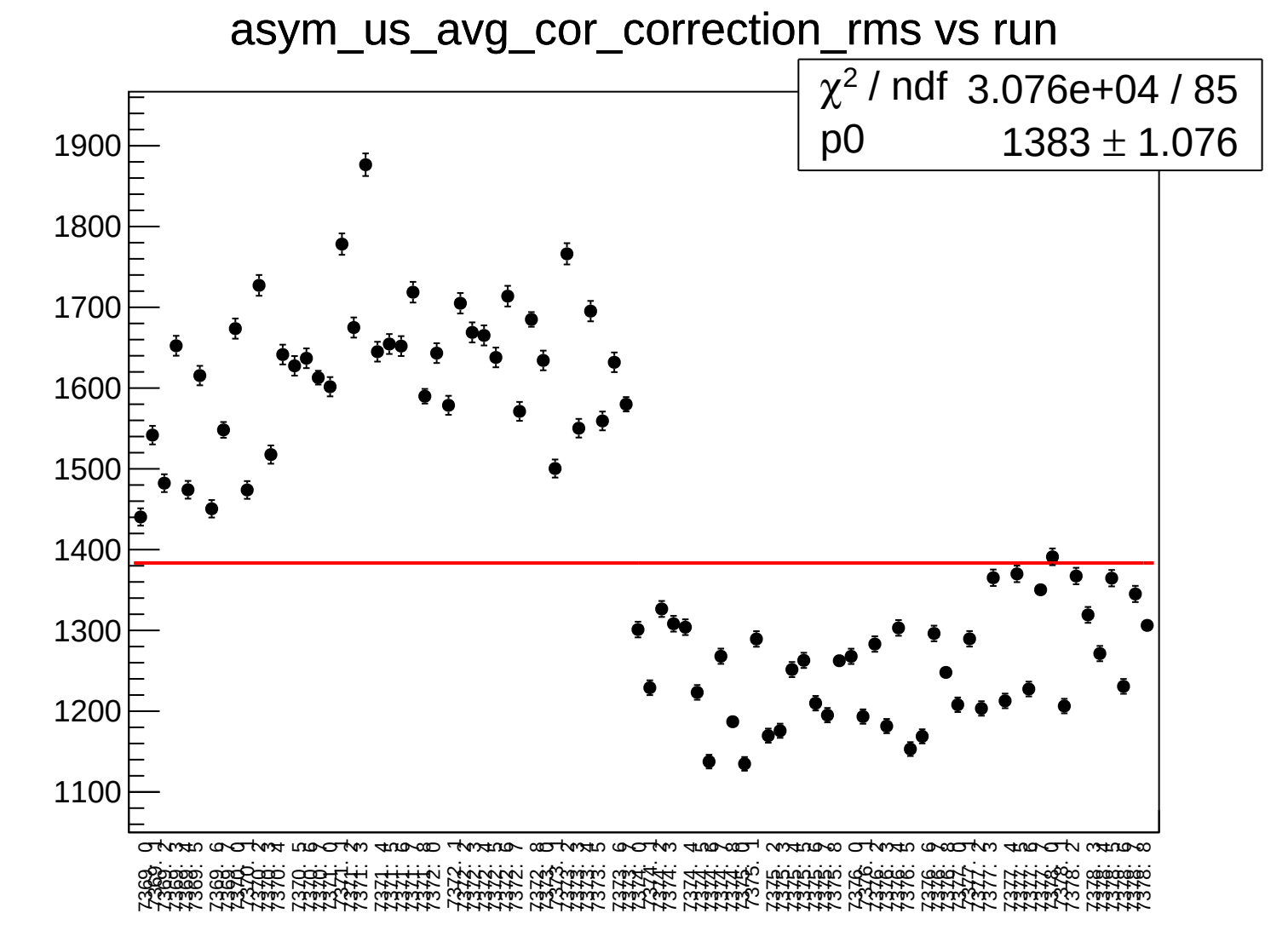
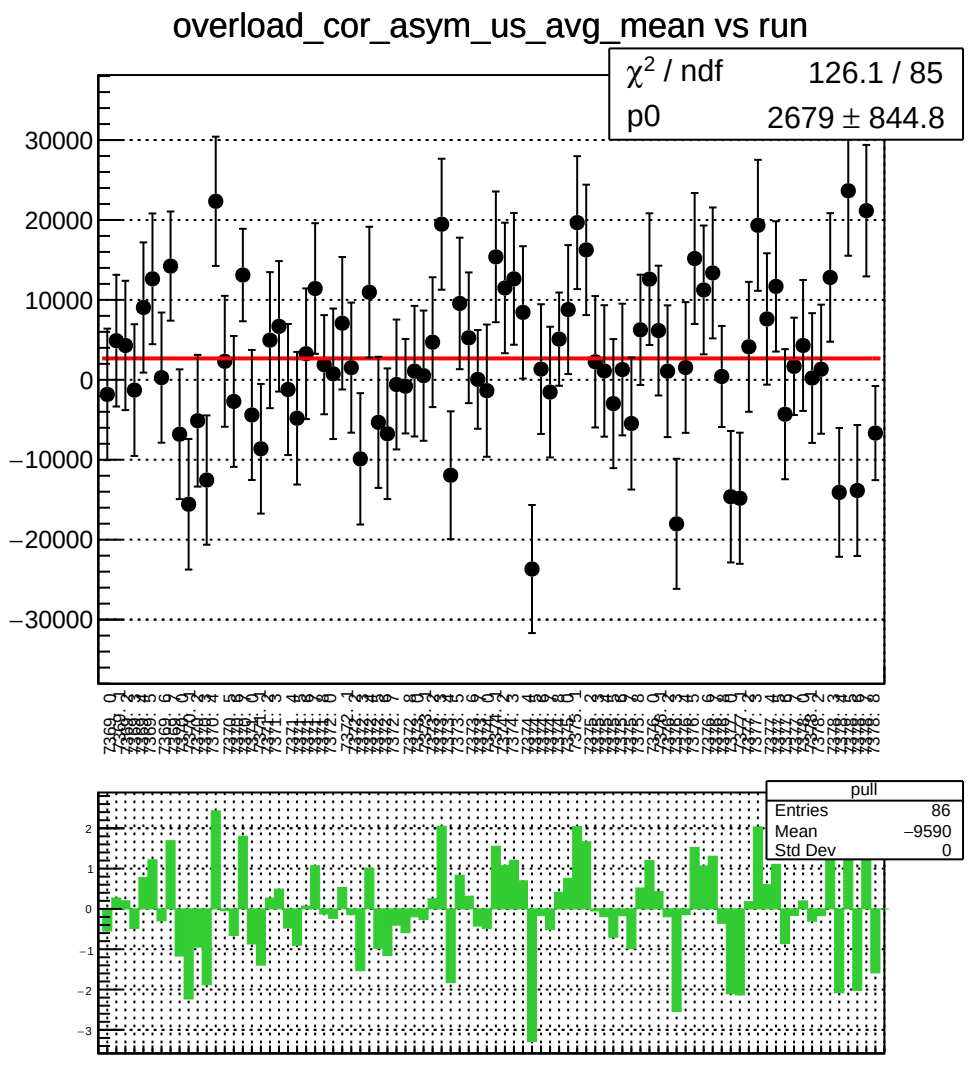
0
2
4
6
8

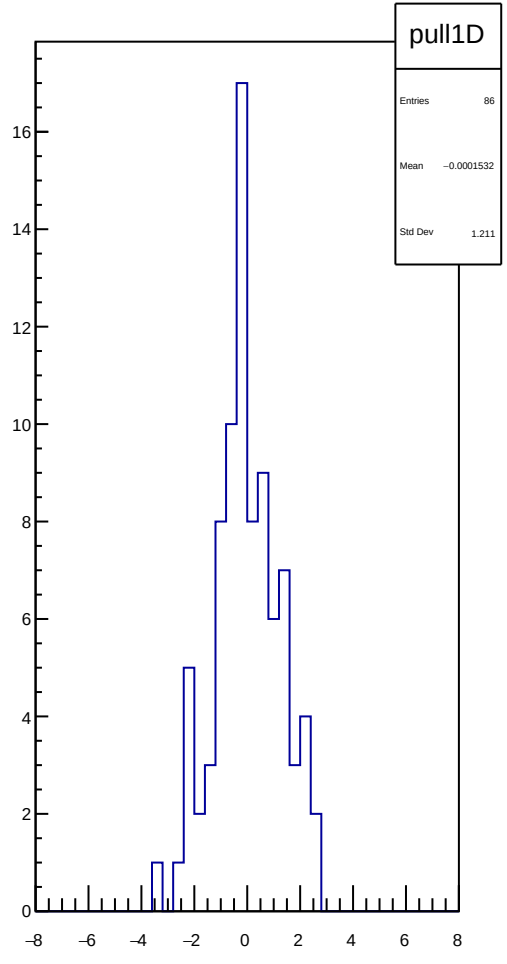

cor_asym_us_avg_rms vs run
χ^2 / ndf 131.1 / 85
p0 779 ± 0.6003
820
810
800
790
780
770
760
750


asym_us_avg_cor_correction_mean vs run
χ² / ndf 97.32 / 85
p0 −1844 ± 1522
pull
Entries 86
Mean −165.7
Std Dev 0


pull1D
Entries 86
Mean 0.006116
Std Dev 1.064


asym_us_avg_cor_correction_rms vs run
χ² / ndf 3.076e+04 / 85
p0 1383 ± 1.076
1900
1800
1700
1600
1500
1400
1300
1200
1100


overload_cor_asym_us_avg_mean vs run
χ² / ndf 126.1 / 85
p0 2679 ± 844.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −9590
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.0001532
Std Dev 1.211
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14
12
10
8
6
4
2
0
−8
−6
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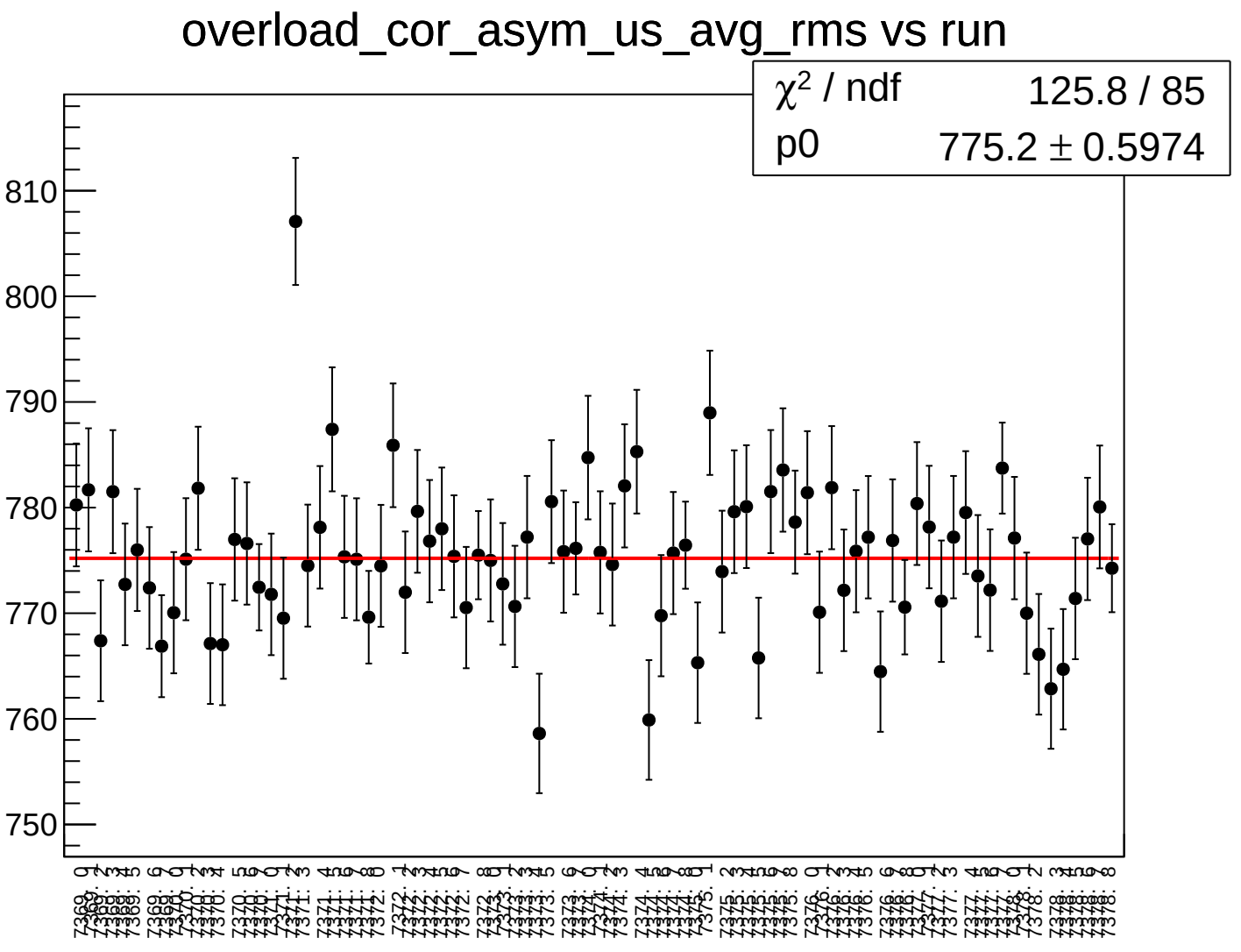
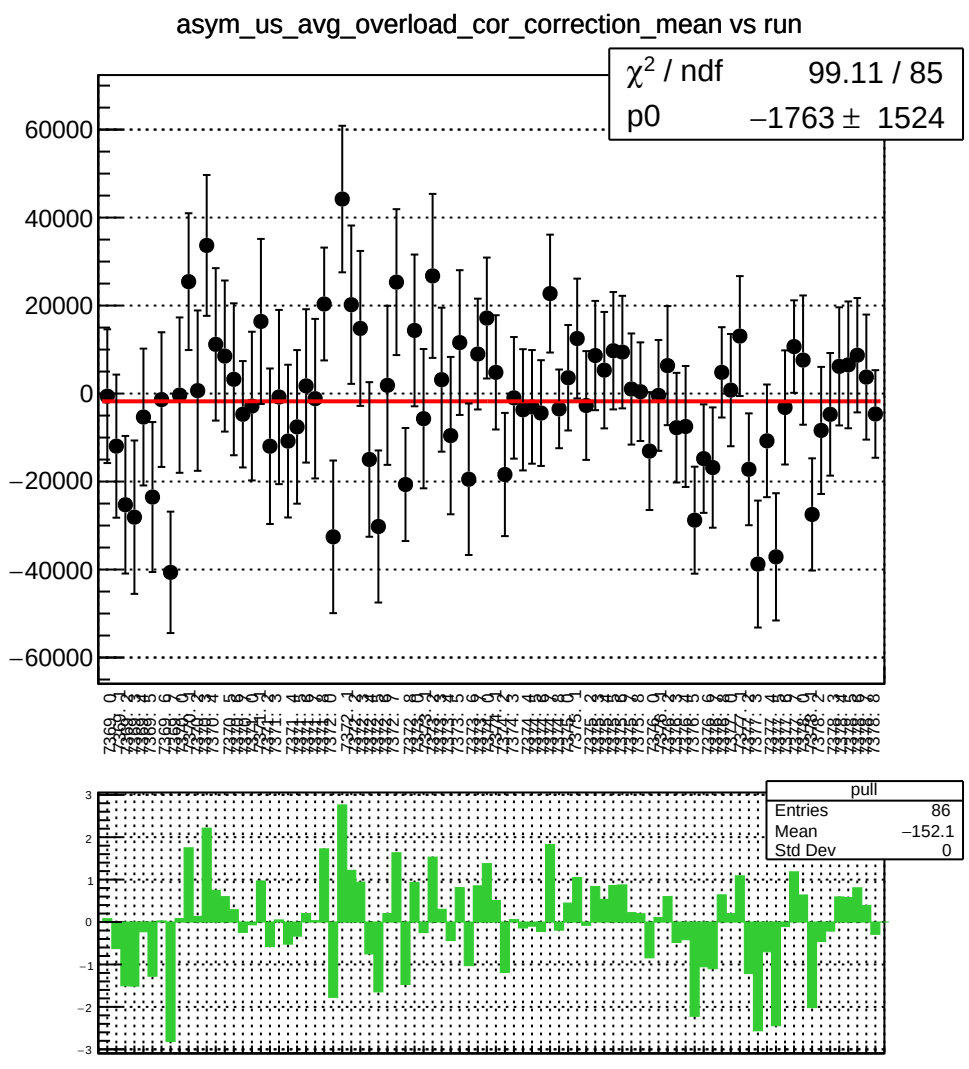
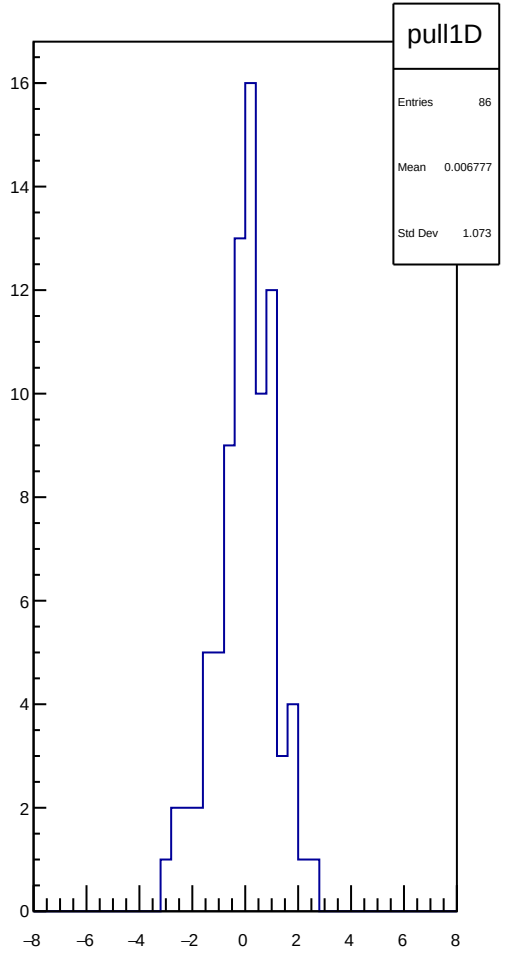
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ² / ndf 125.8 / 85
p0 775.2 ± 0.5974
810
800
790
780
770
760
750


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 99.11 / 85
p0 −1763 ± 1524
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −152.1
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.006777
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
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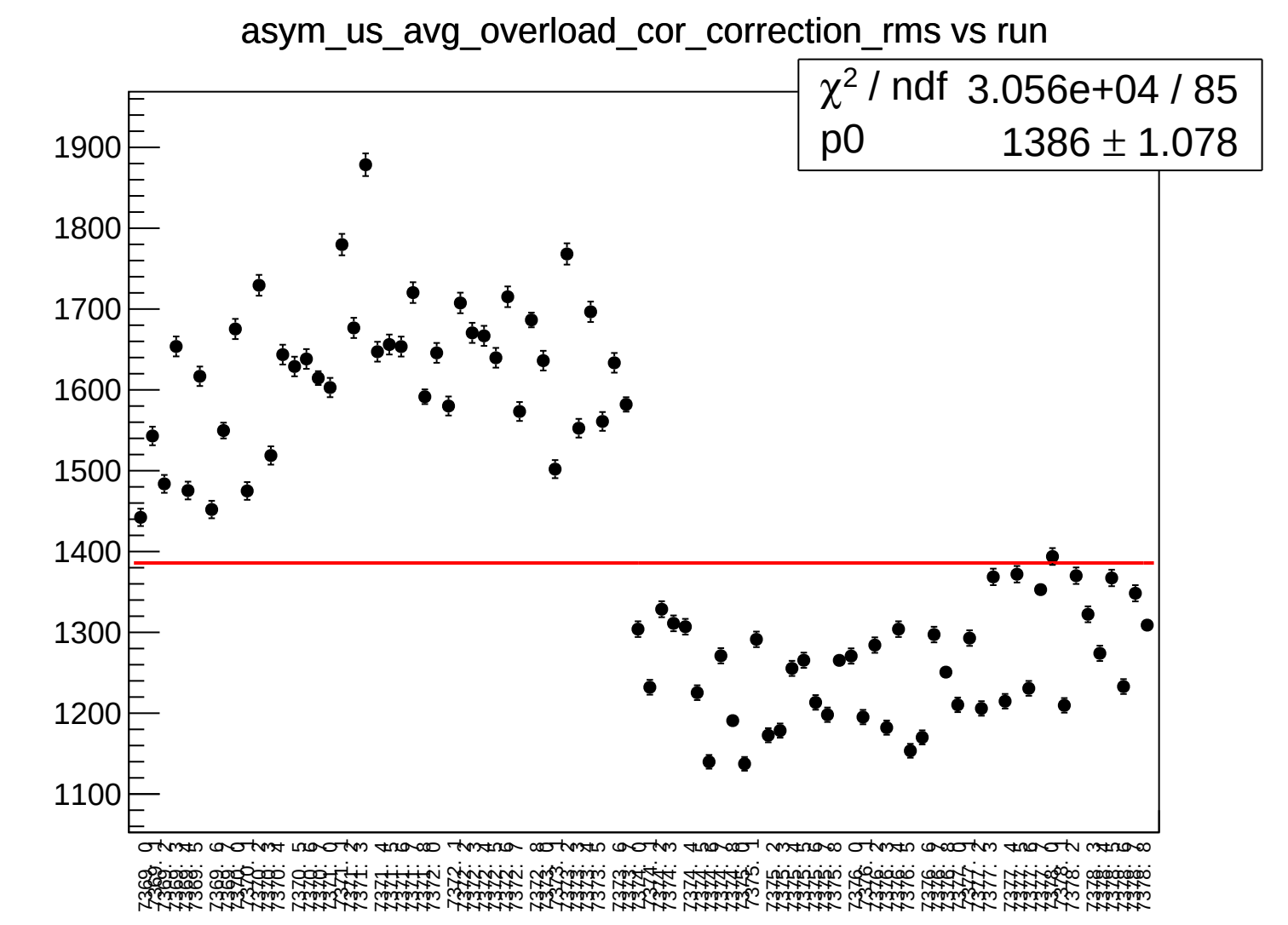
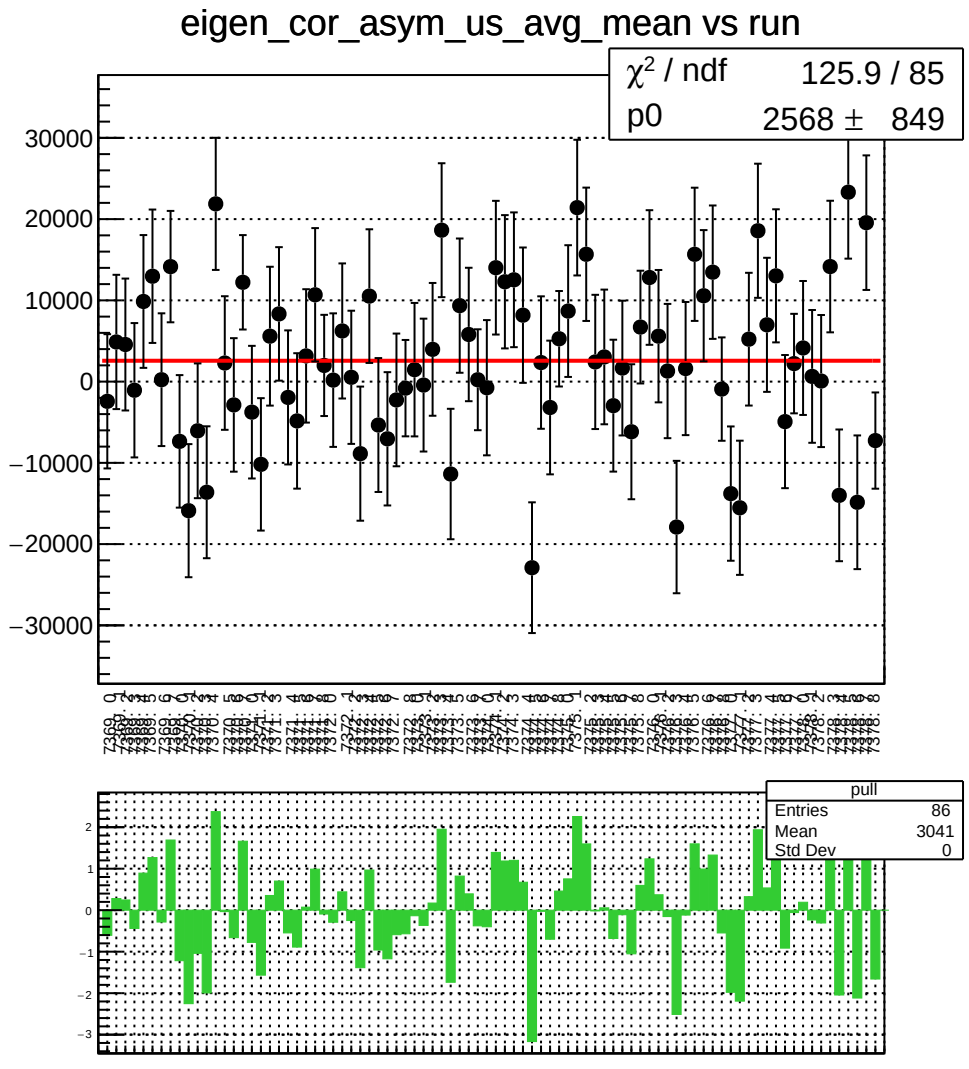
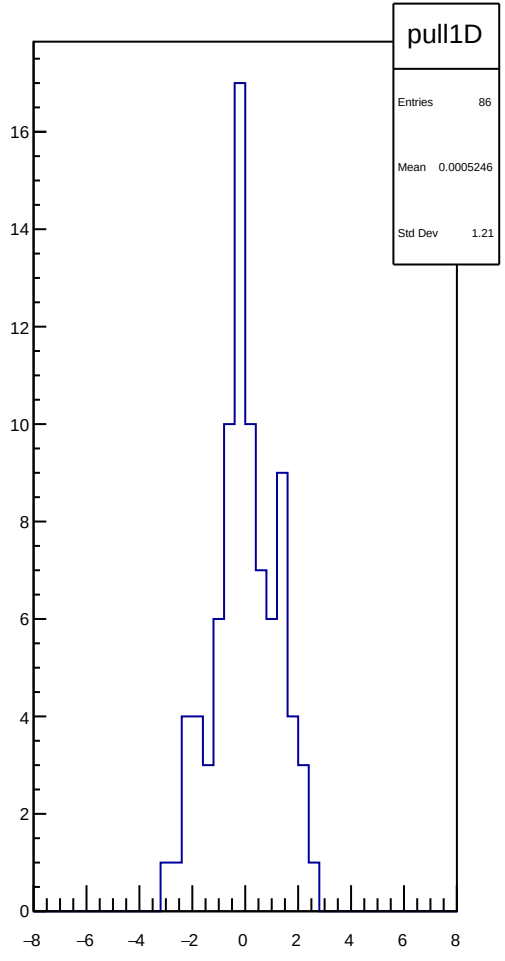
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 3.056e+04 / 85
p0 1386 ± 1.078
1900
1800
1700
1600
1500
1400
1300
1200
1100


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 125.9 / 85
p0 2568 ± 849
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 3041
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.0005246
Std Dev 1.21
16
14
12
10
8
6
4
2
0
−8
−6
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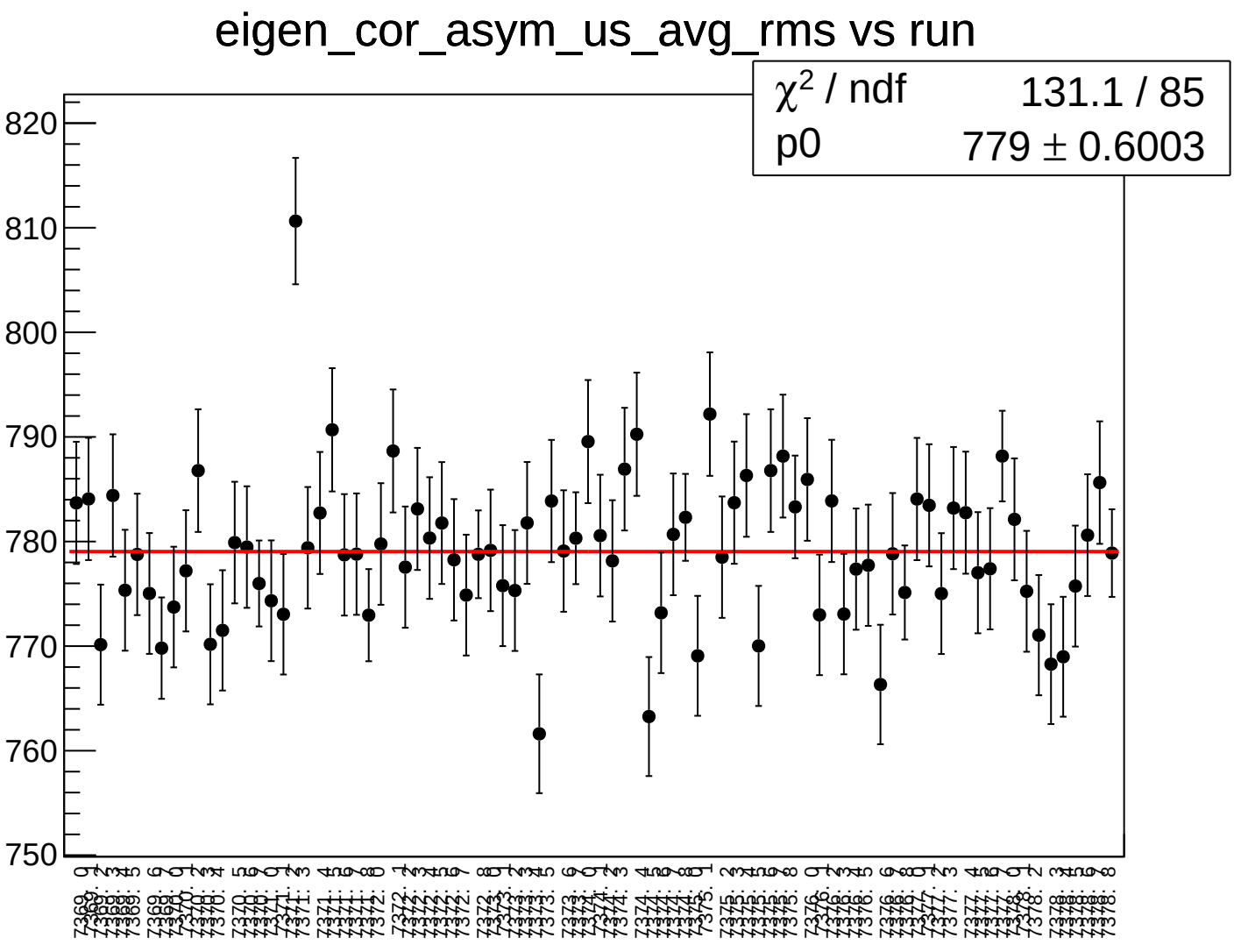
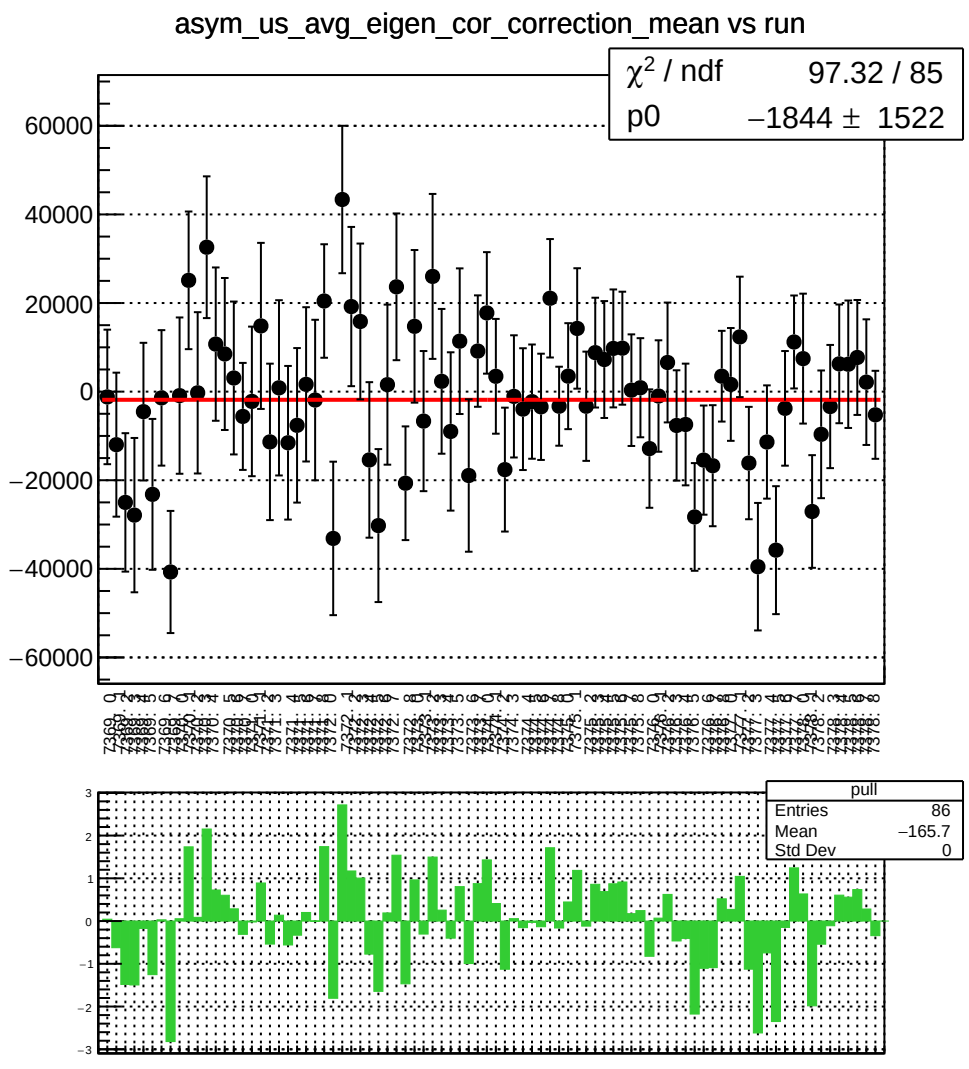
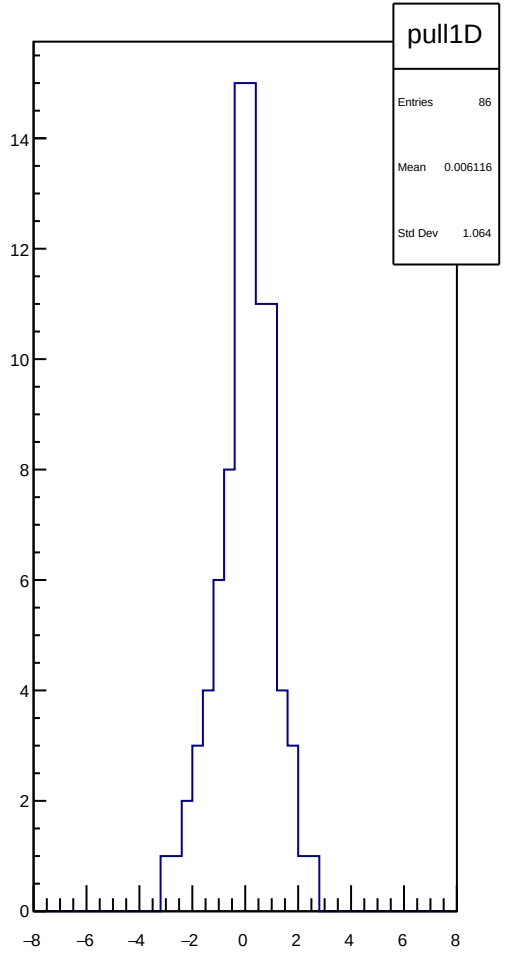
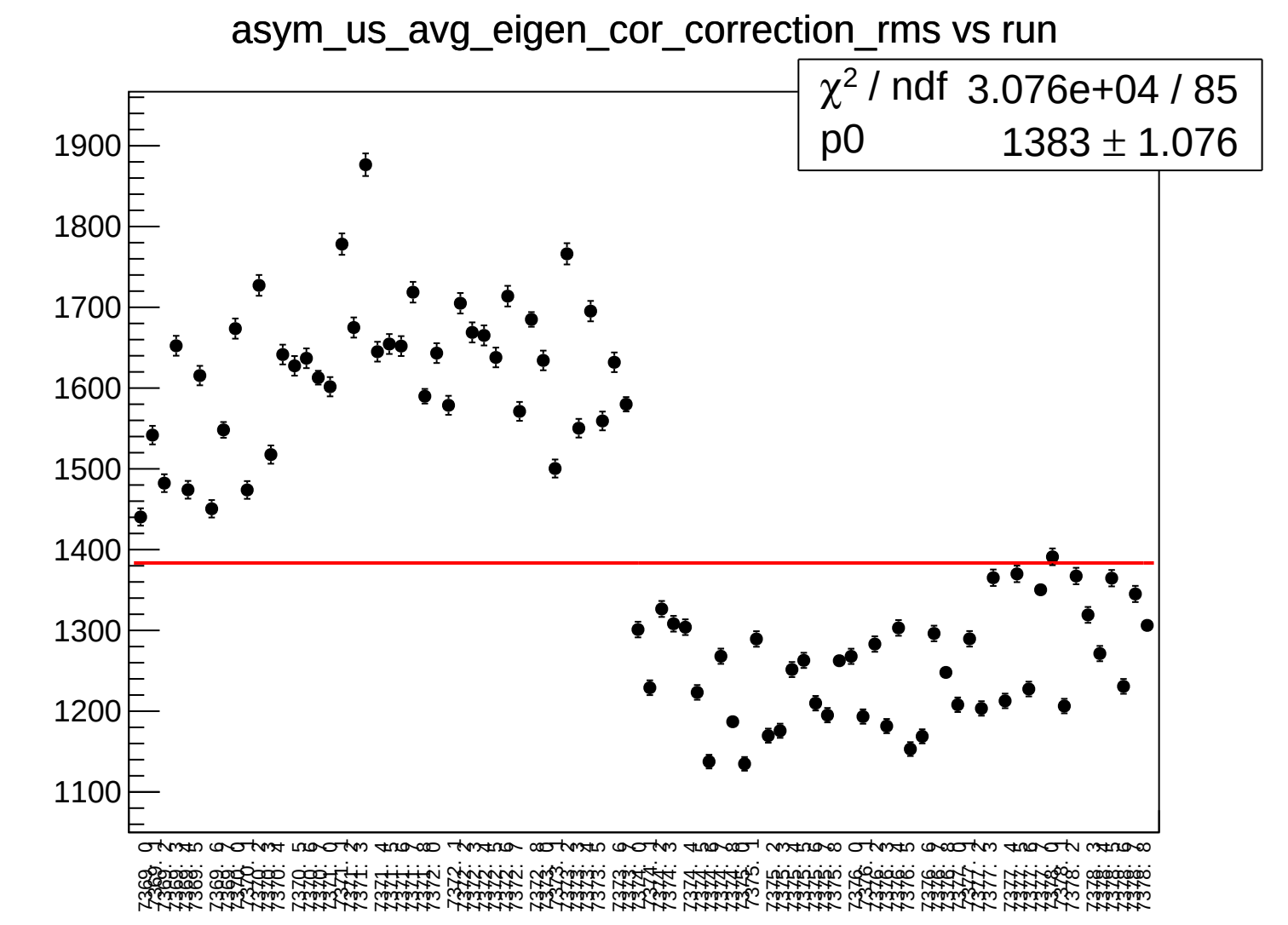
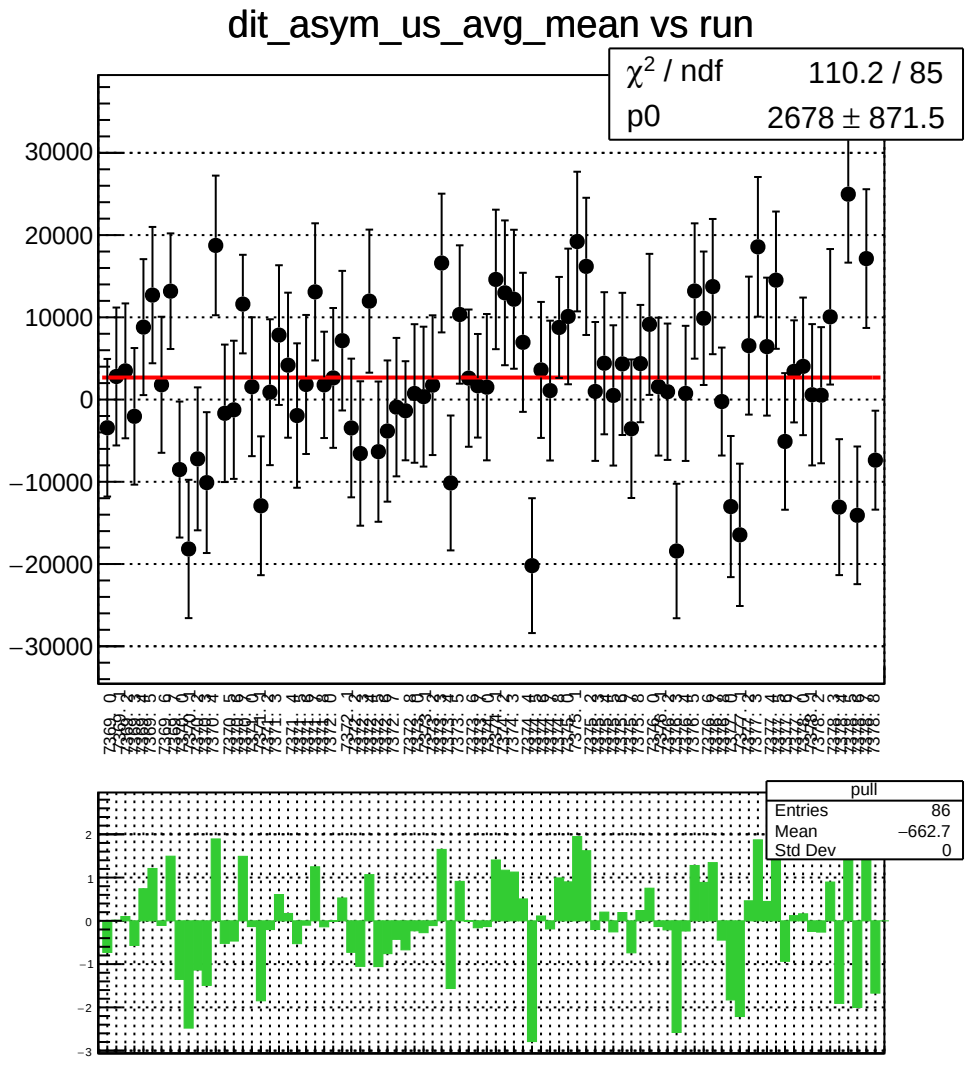
2
4
6
8

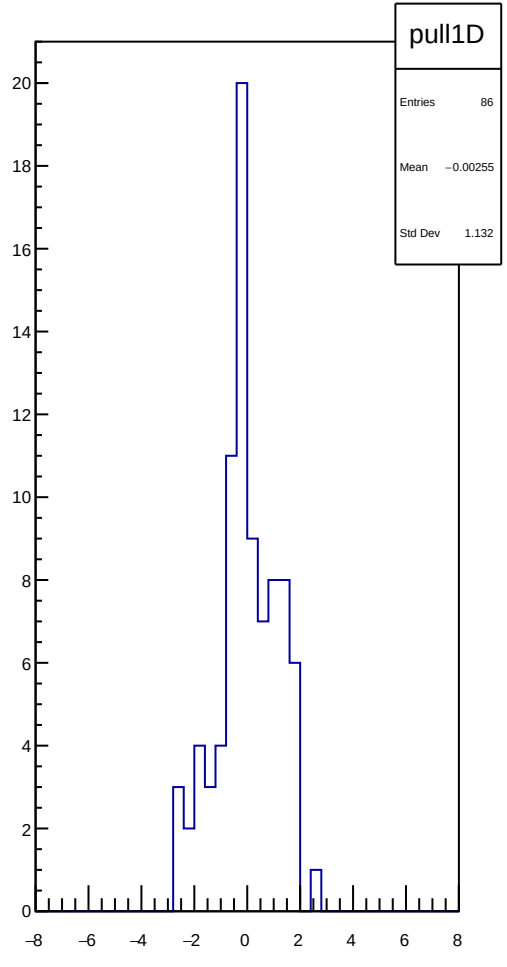

eigen_cor_asym_us_avg_rms vs run
χ^2 / ndf 131.1 / 85
p0 779 ± 0.6003
820
810
800
790
780
770
760
750

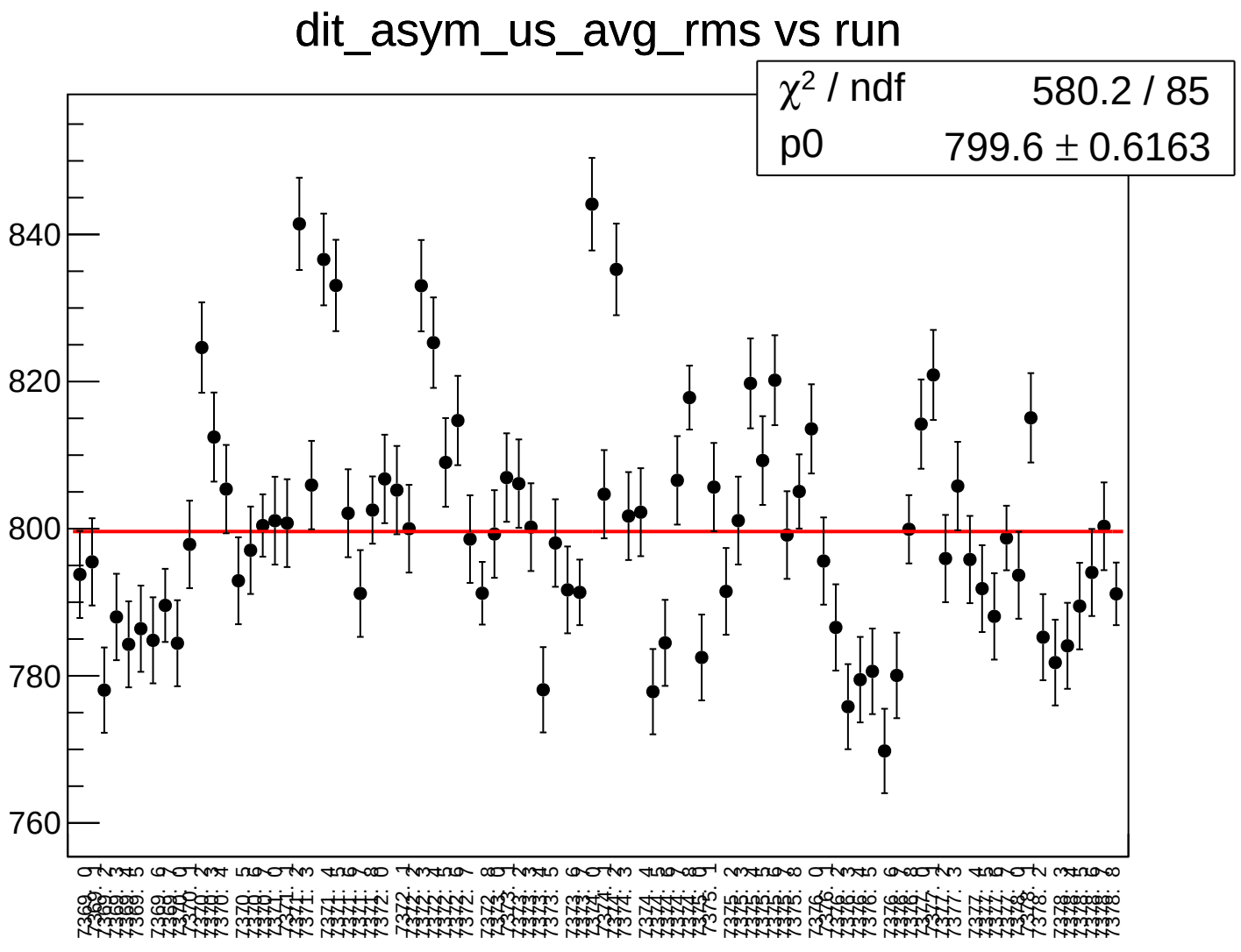

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.32 / 85
p0 −1844 ± 1522
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −165.7
Std Dev 0
3
2
1
0
−1
−2
−3

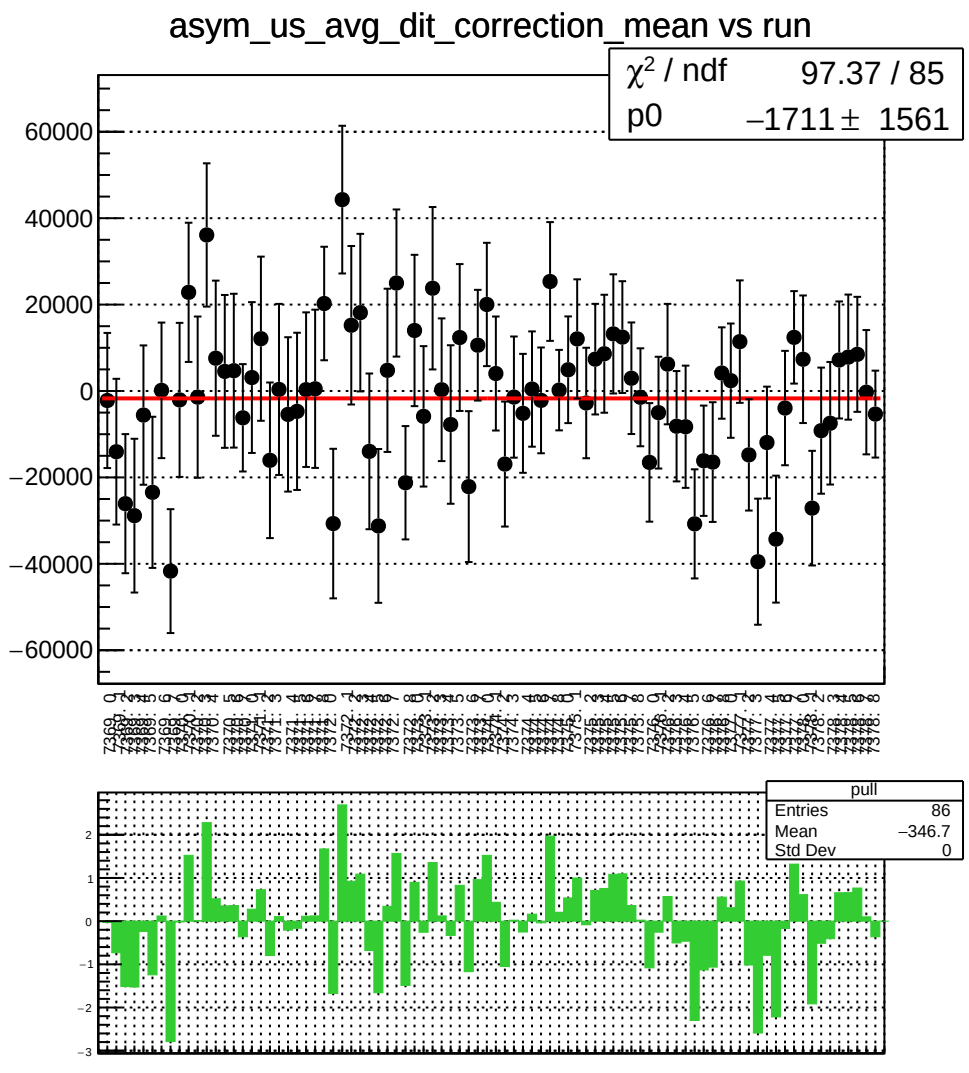

pull1D
Entries 86
Mean 0.006116
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

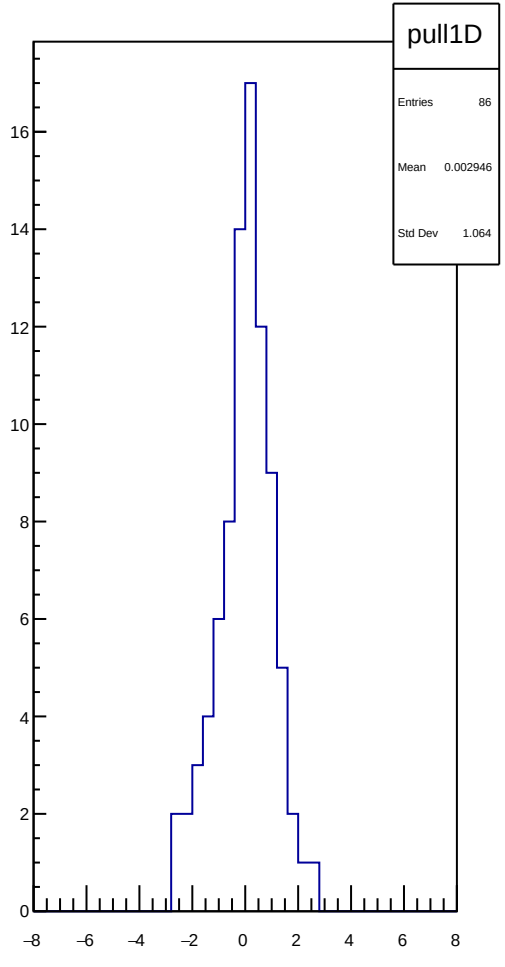

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.076e+04 / 85
p0 1383 ± 1.076
1900
1800
1700
1600
1500
1400
1300
1200
1100

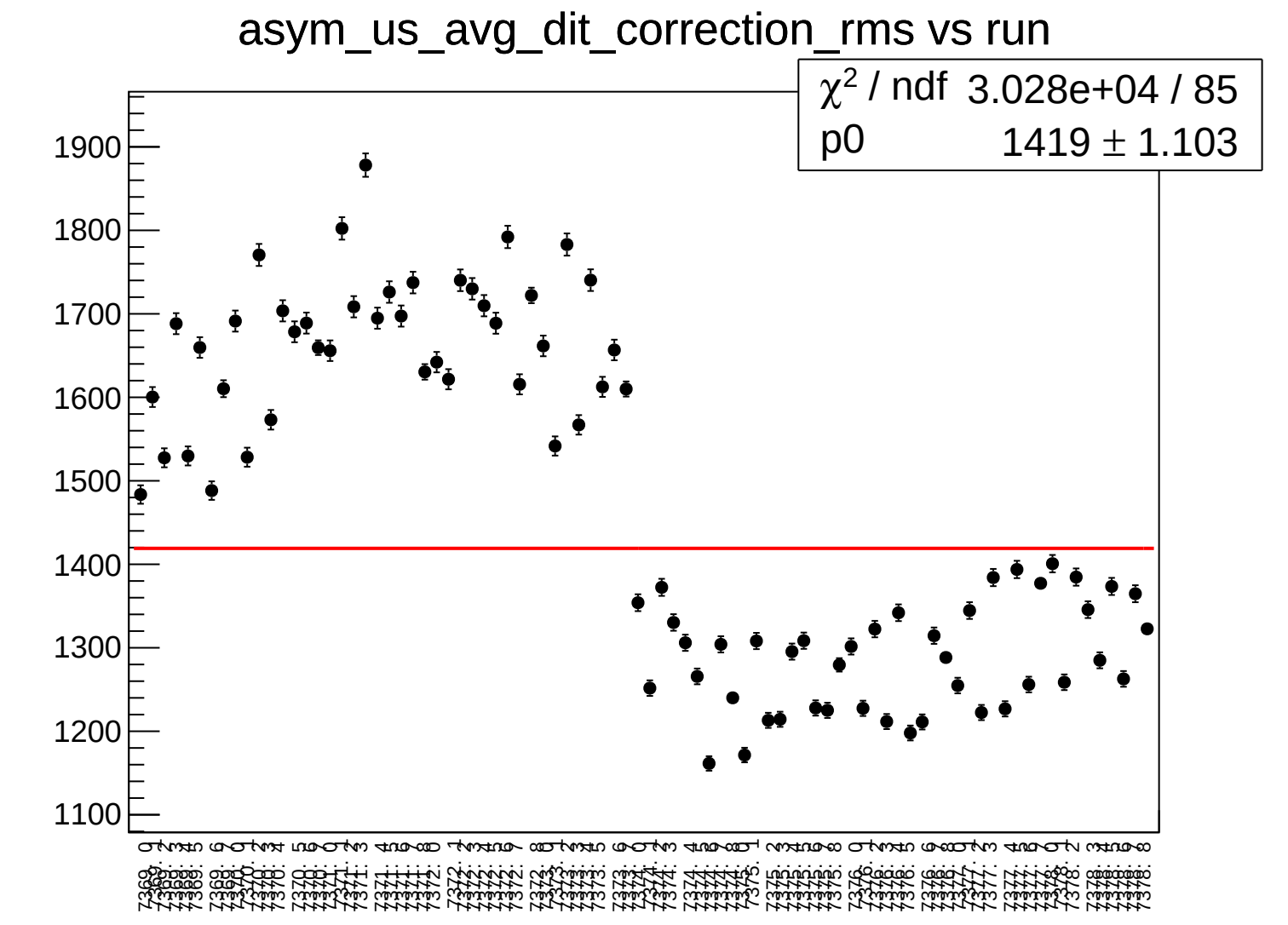

dit_asym_us_avg_mean vs run
χ² / ndf 110.2 / 85
p0 2678 ± 871.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −662.7
Std Dev 0
2
1
0
−1
−2
−3

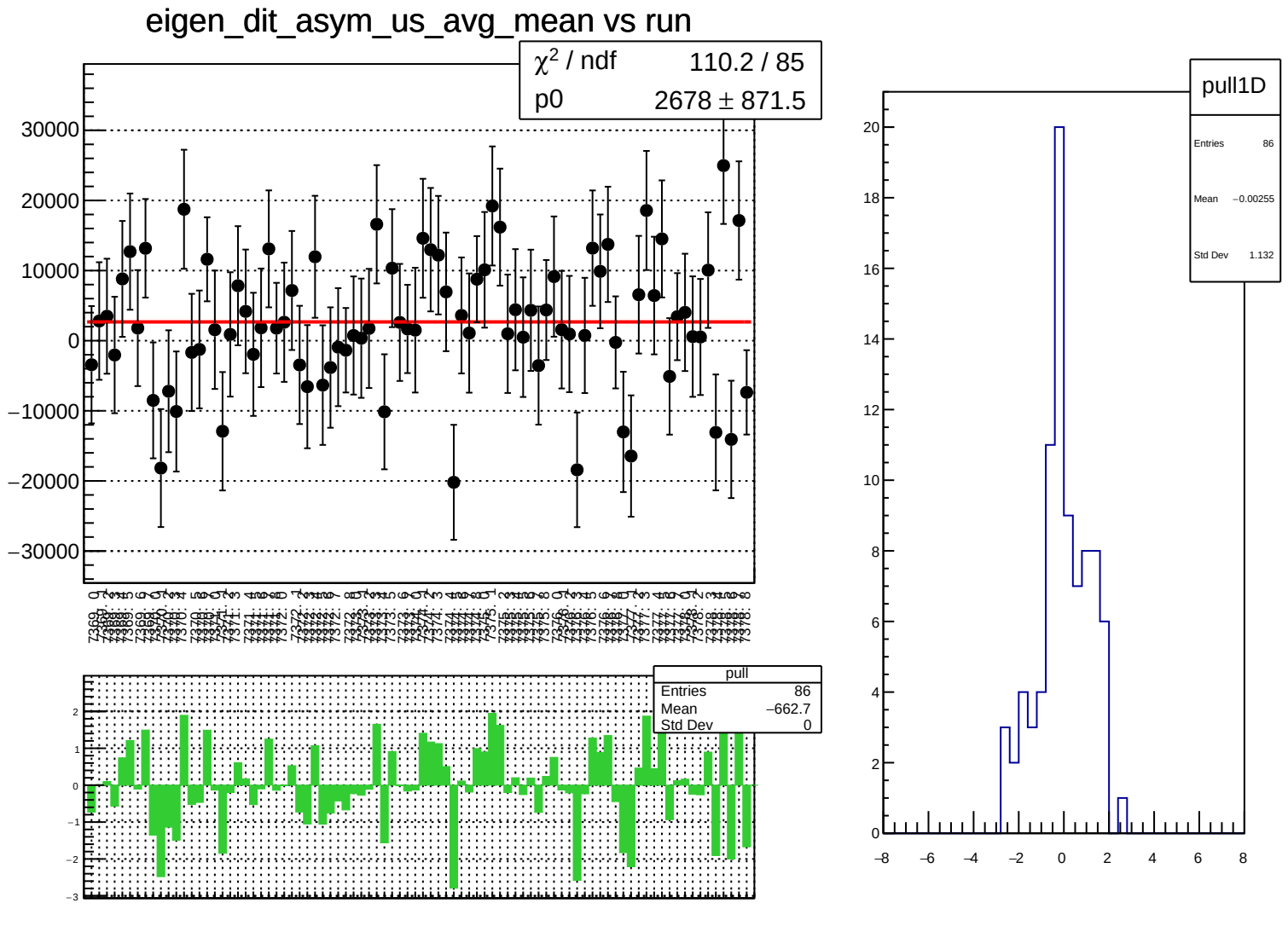

pull1D
Entries 86
Mean −0.00255
Std Dev 1.132
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

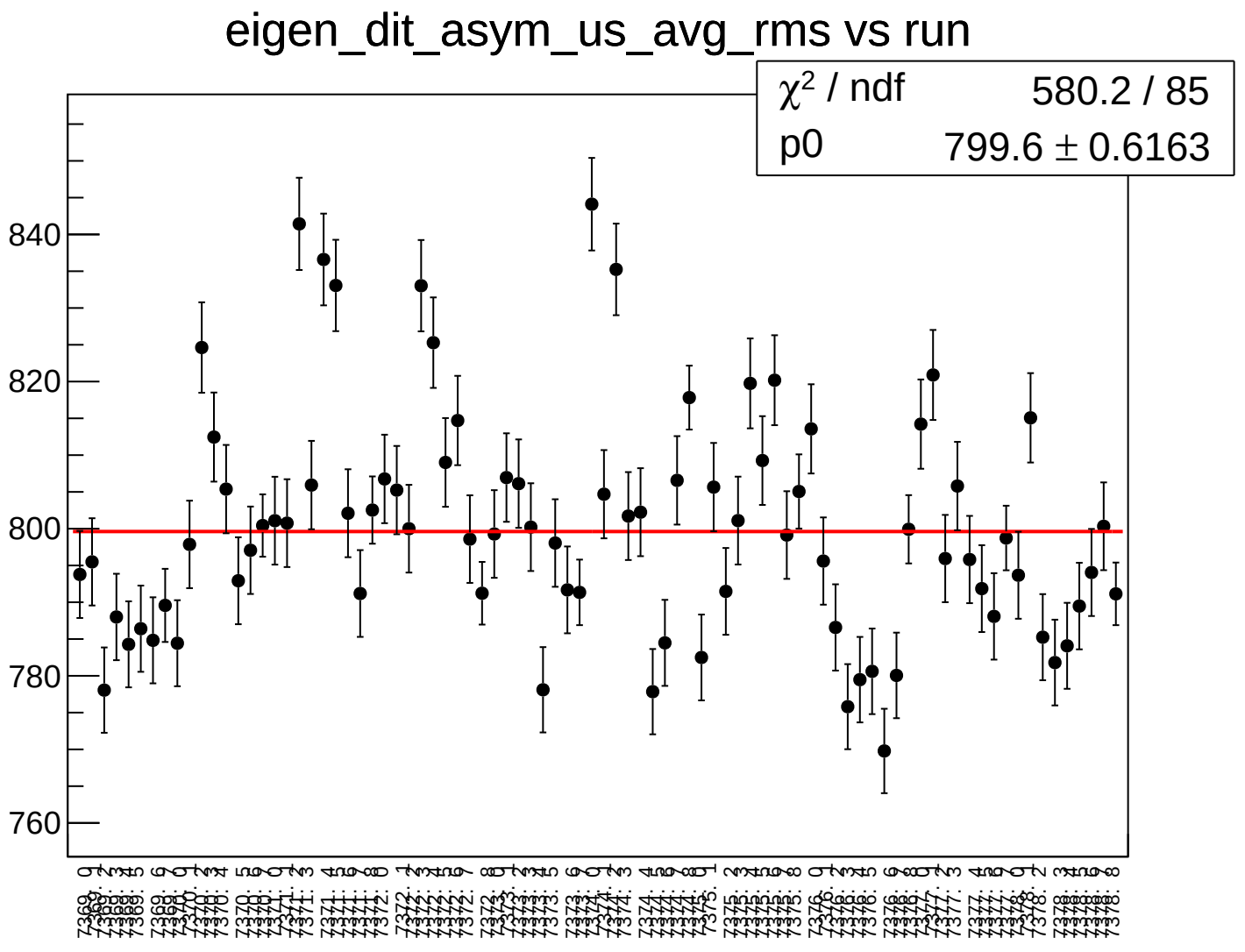

dit_asym_us_avg_rms vs run
χ² / ndf 580.2 / 85
p0 799.6 ± 0.6163
840
820
800
780
760

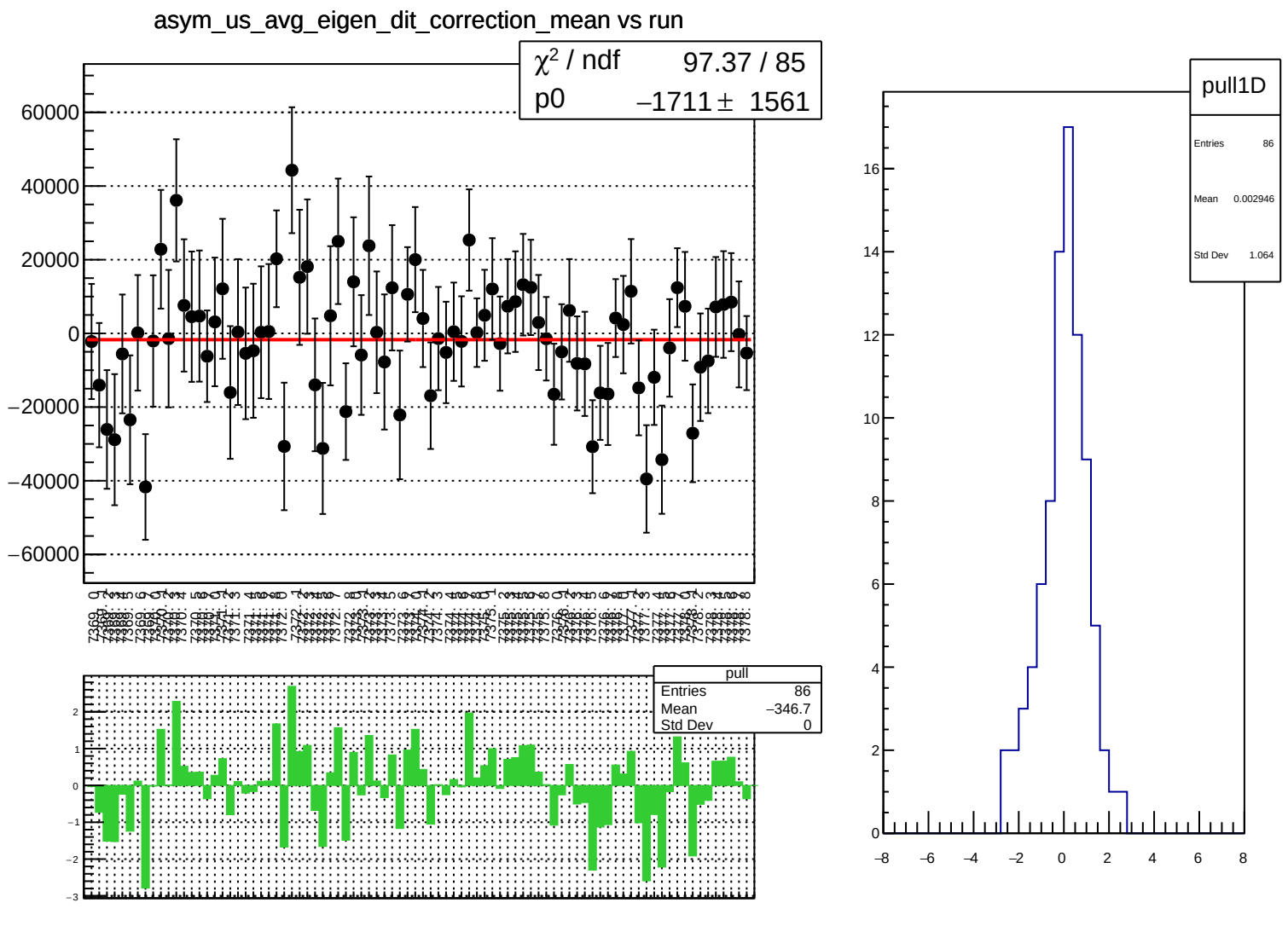

asym_us_avg_dit_correction_mean vs run
χ² / ndf 97.37 / 85
p0 −1711 ± 1561
pull
Entries 86
Mean −346.7
Std Dev 0

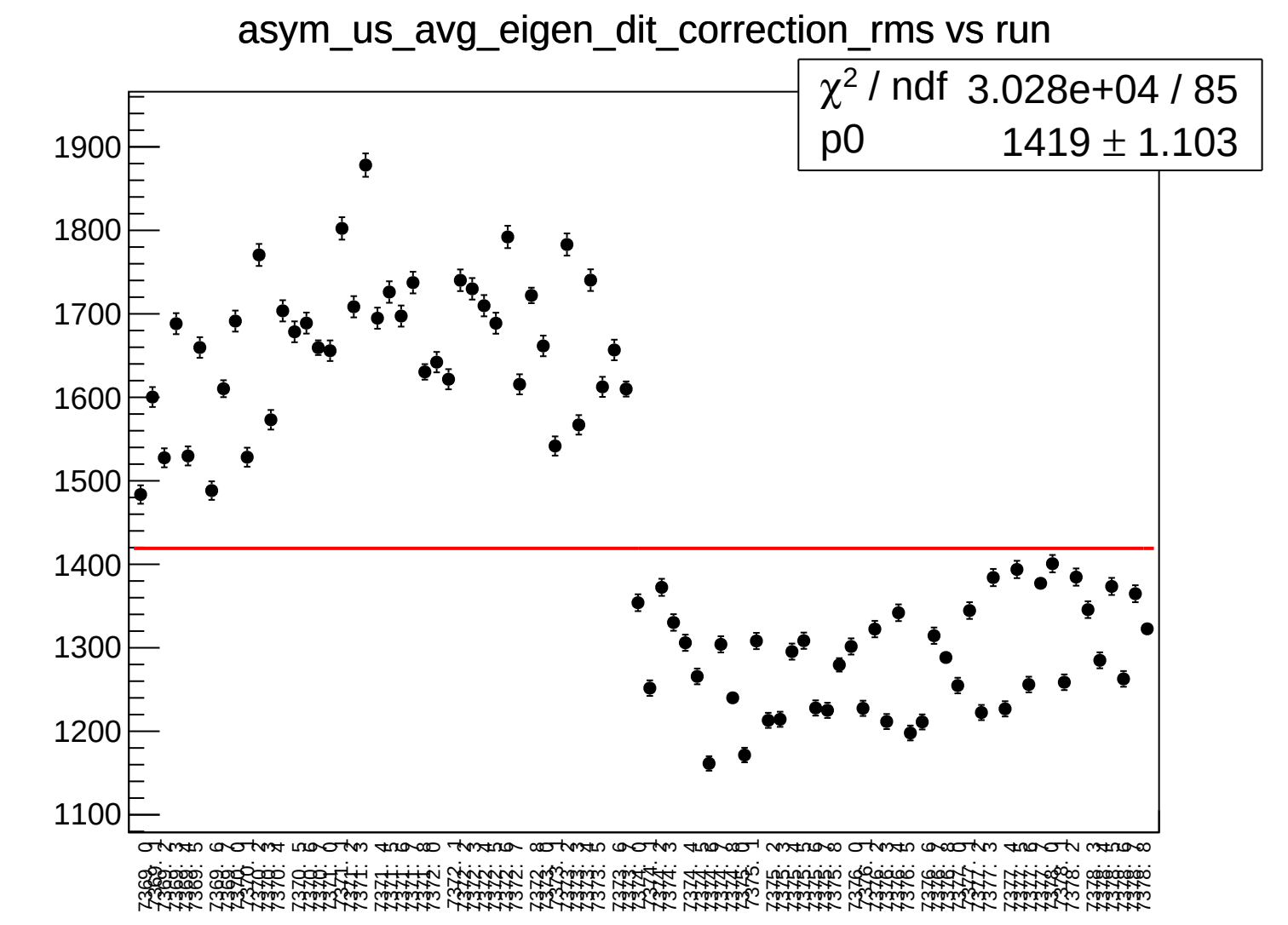

pull1D
Entries 86
Mean 0.002946
Std Dev 1.064

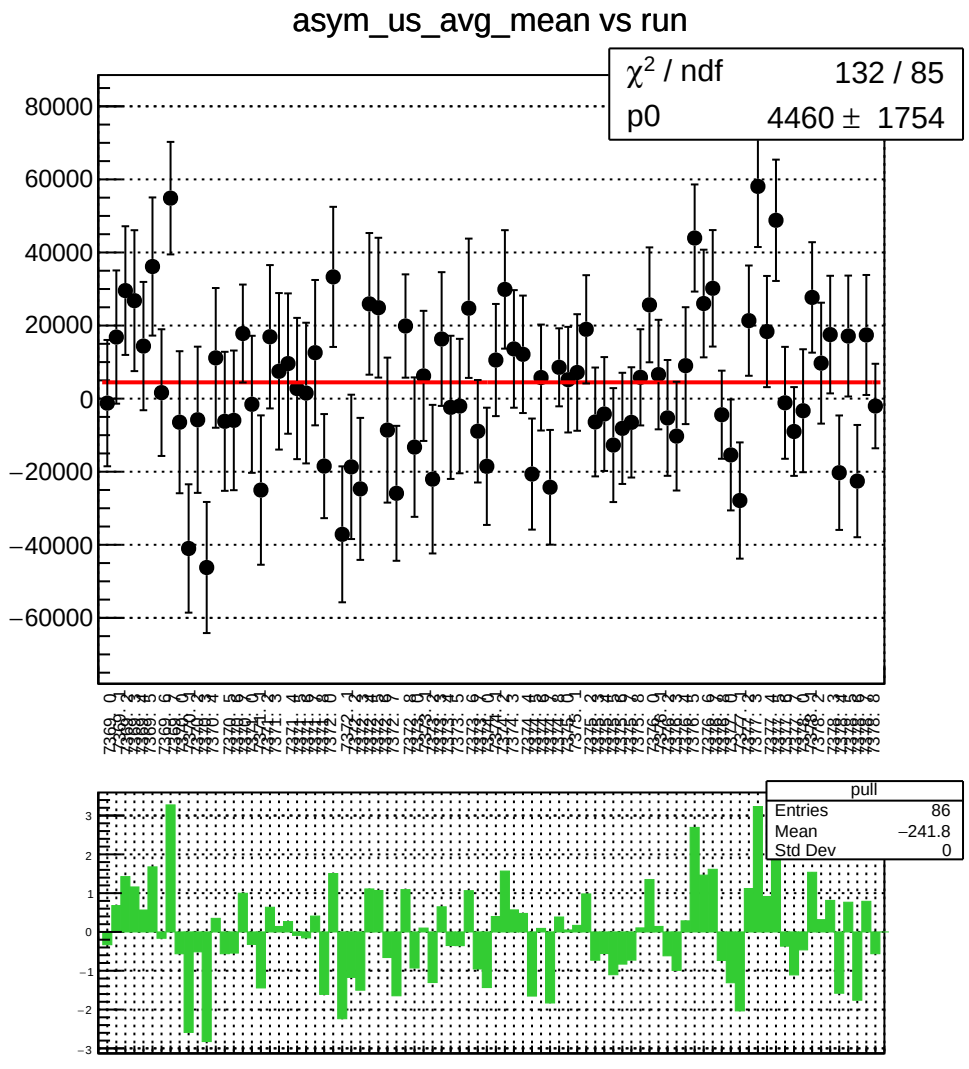

asym_us_avg_dit_correction_rms vs run
χ² / ndf 3.028e+04 / 85
p0 1419 ± 1.103
1900
1800
1700
1600
1500
1400
1300
1200
1100

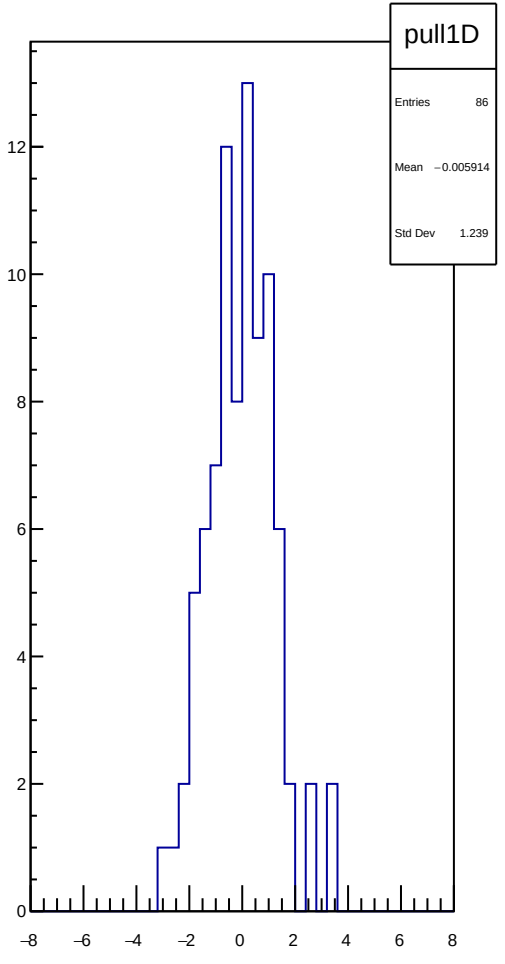

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 110.2 / 85
p0 2678 ± 871.5
pull
Entries 86
Mean −662.7
Std Dev 0
pull1D
Entries 86
Mean −0.00255
Std Dev 1.132

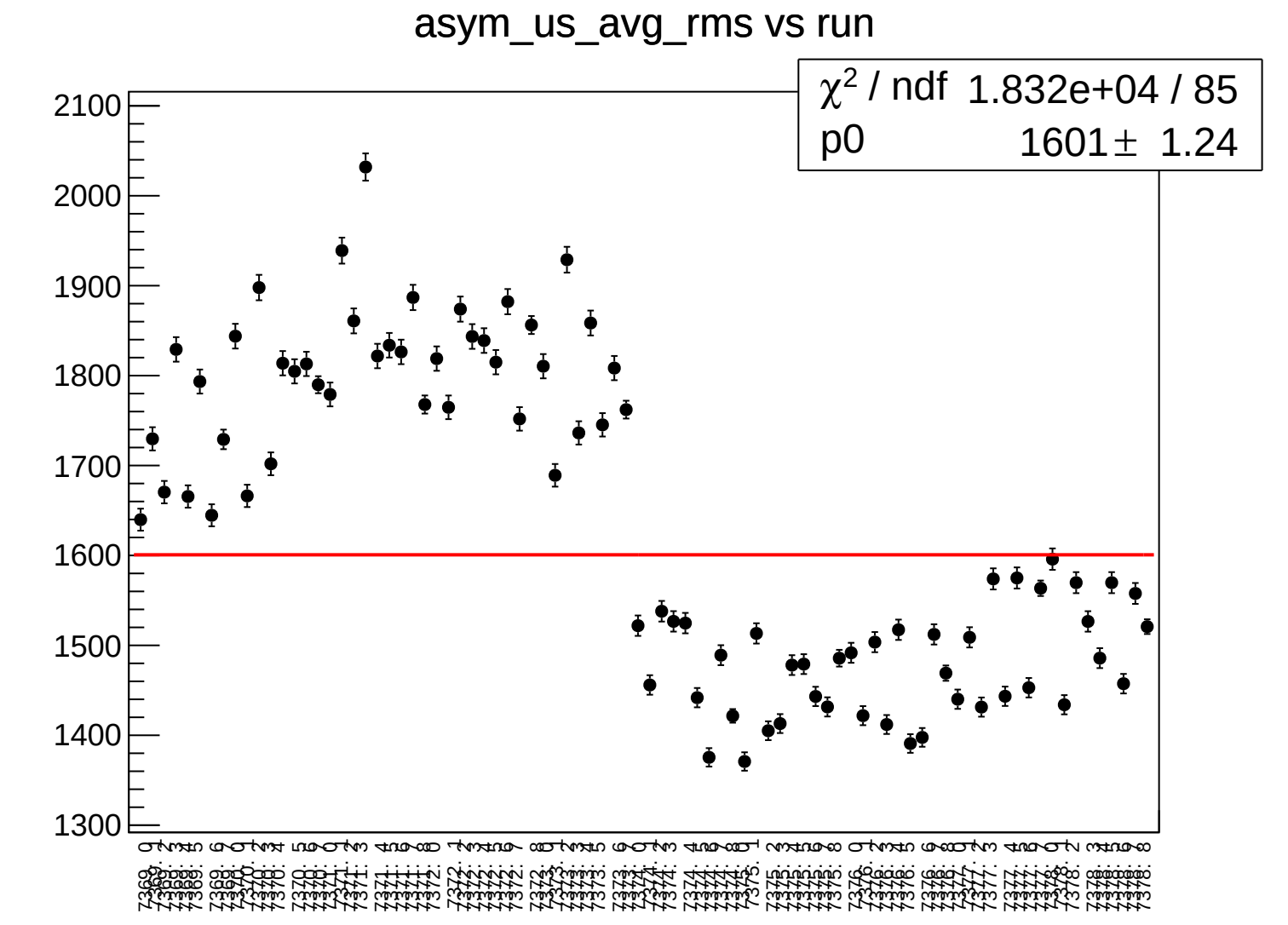

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 580.2 / 85
p0 799.6 ± 0.6163
840
820
800
780
760

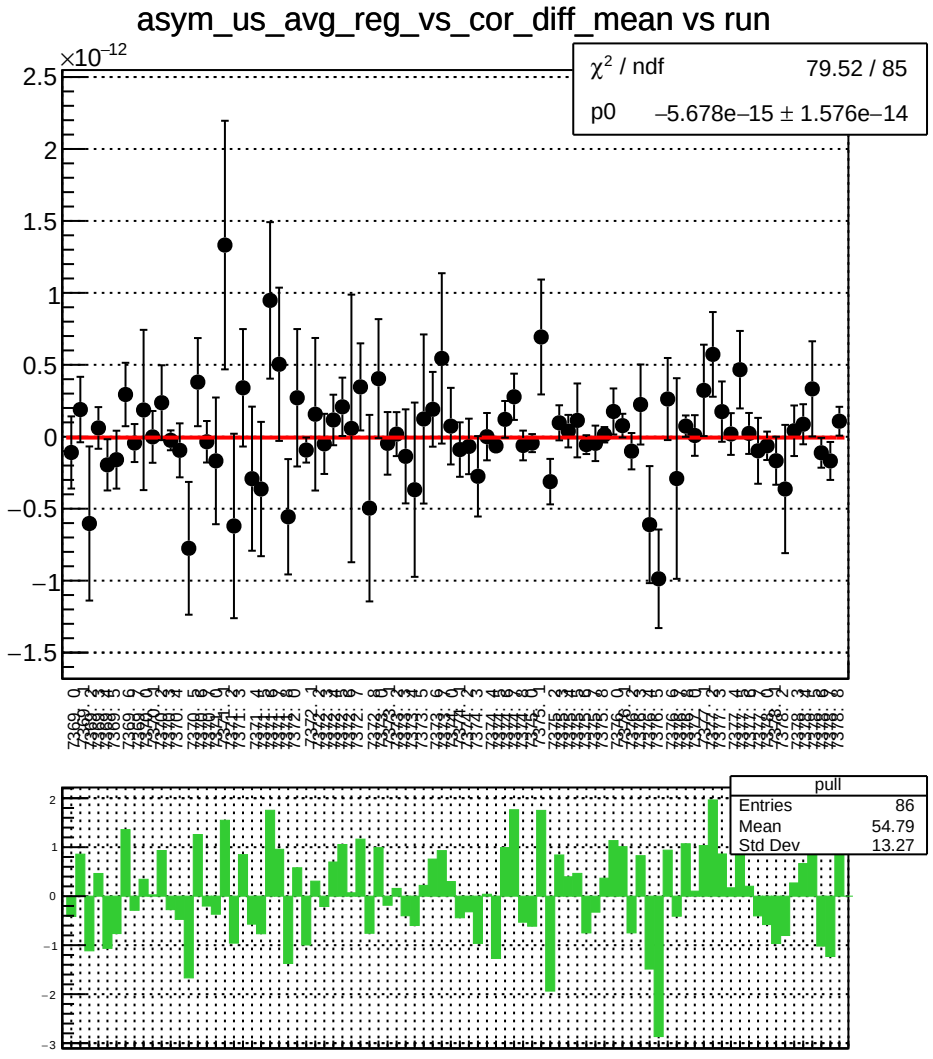

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.37 / 85
p0 −1711 ± 1561
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −346.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.002946
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

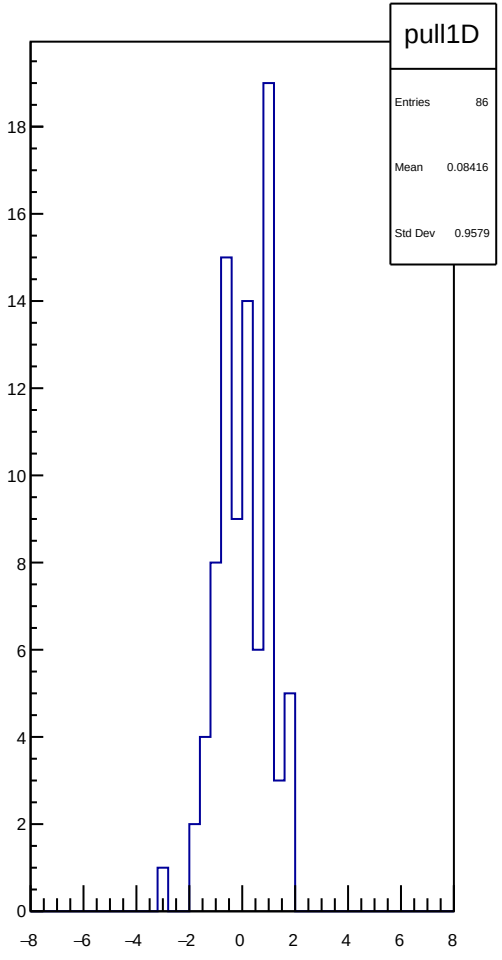

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.028e+04 / 85
p0 1419 ± 1.103
1900
1800
1700
1600
1500
1400
1300
1200
1100

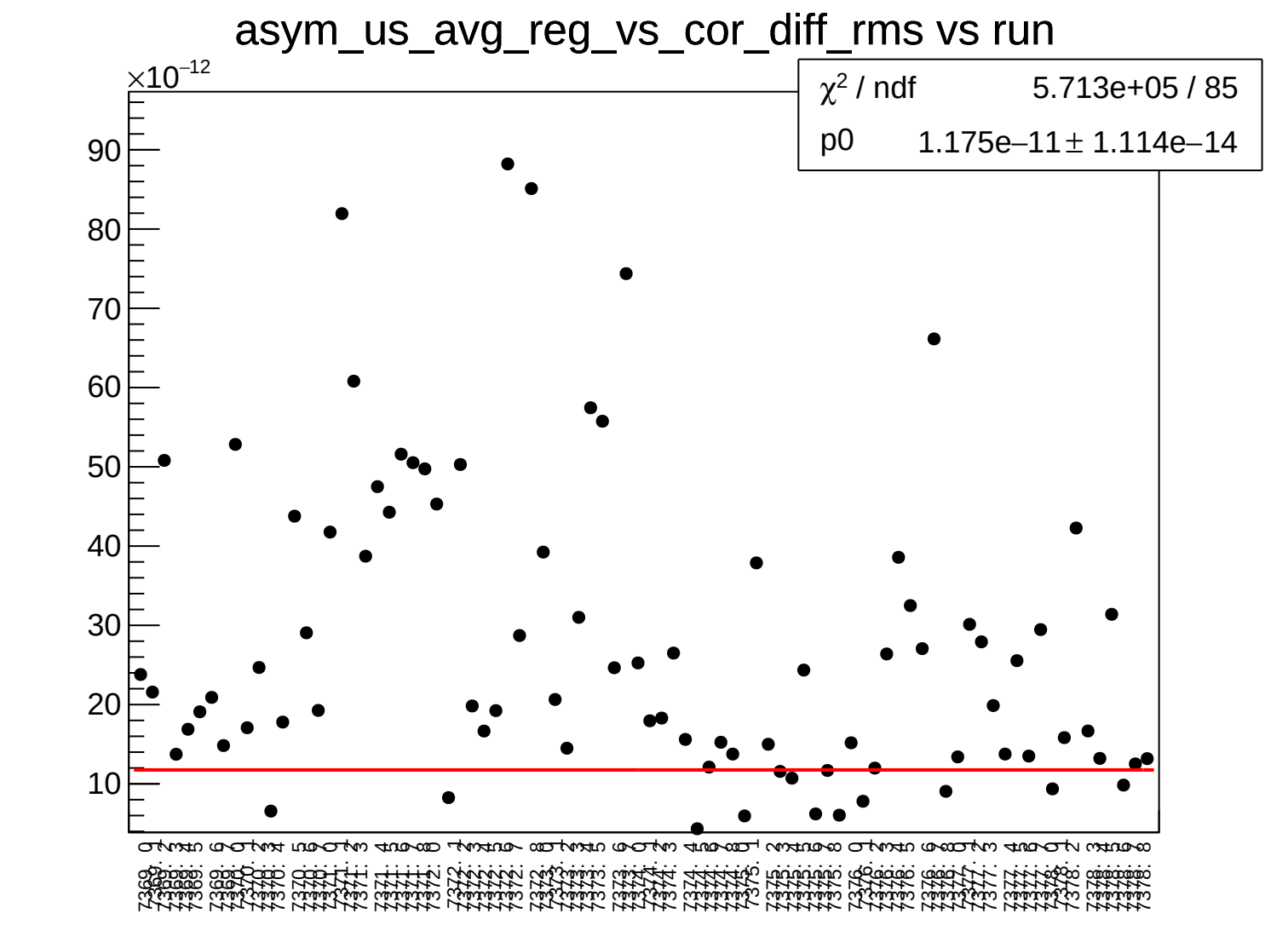

asym_us_avg_mean vs run
χ² / ndf 132 / 85
p0 4460 ± 1754
pull
Entries 86
Mean −241.8
Std Dev 0

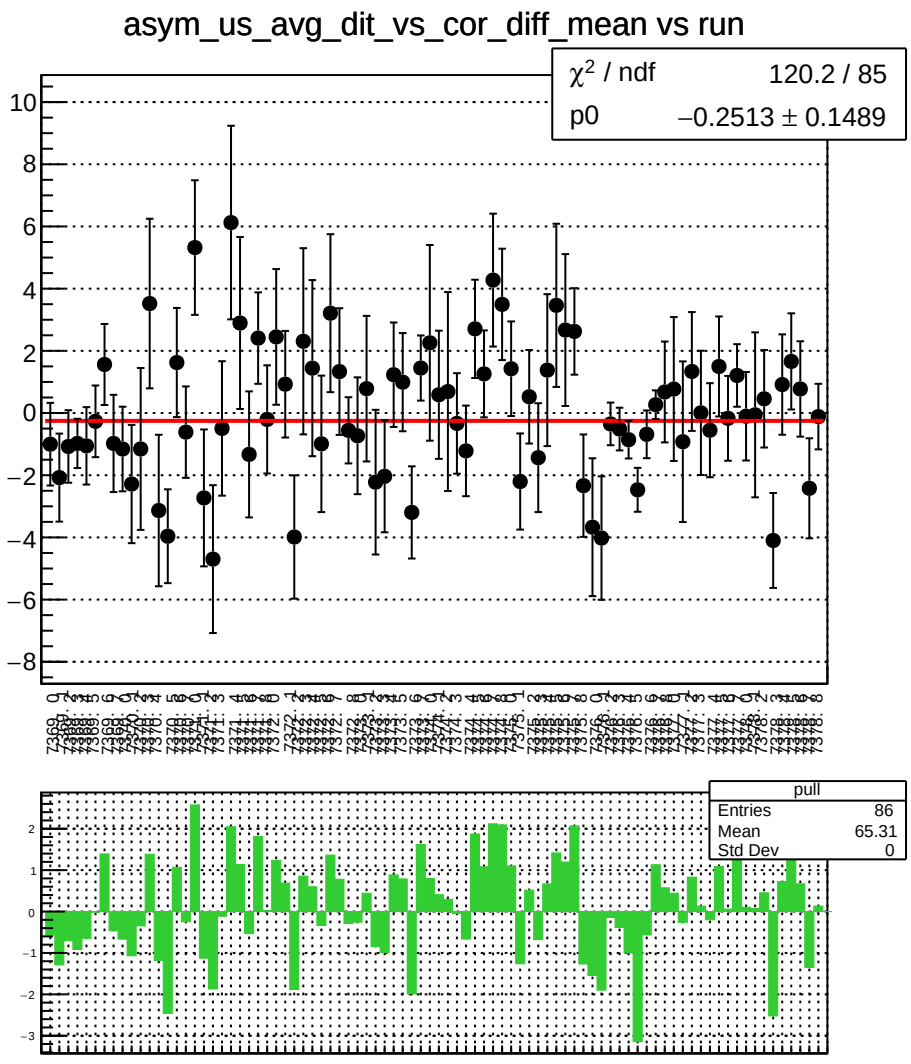

pull1D
Entries 86
Mean −0.005914
Std Dev 1.239

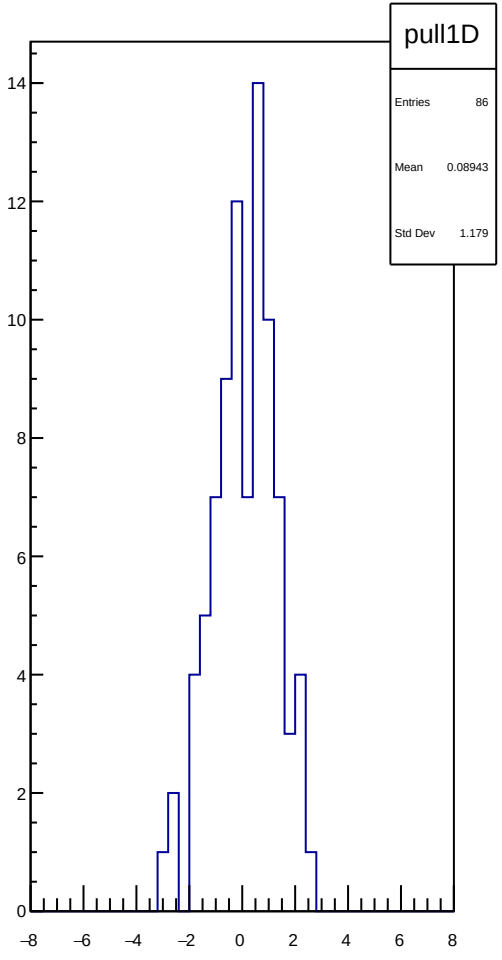

asym_us_avg_rms vs run
χ² / ndf 1.832e+04 / 85
p0 1601 ± 1.24
2100
2000
1900
1800
1700
1600
1500
1400
1300

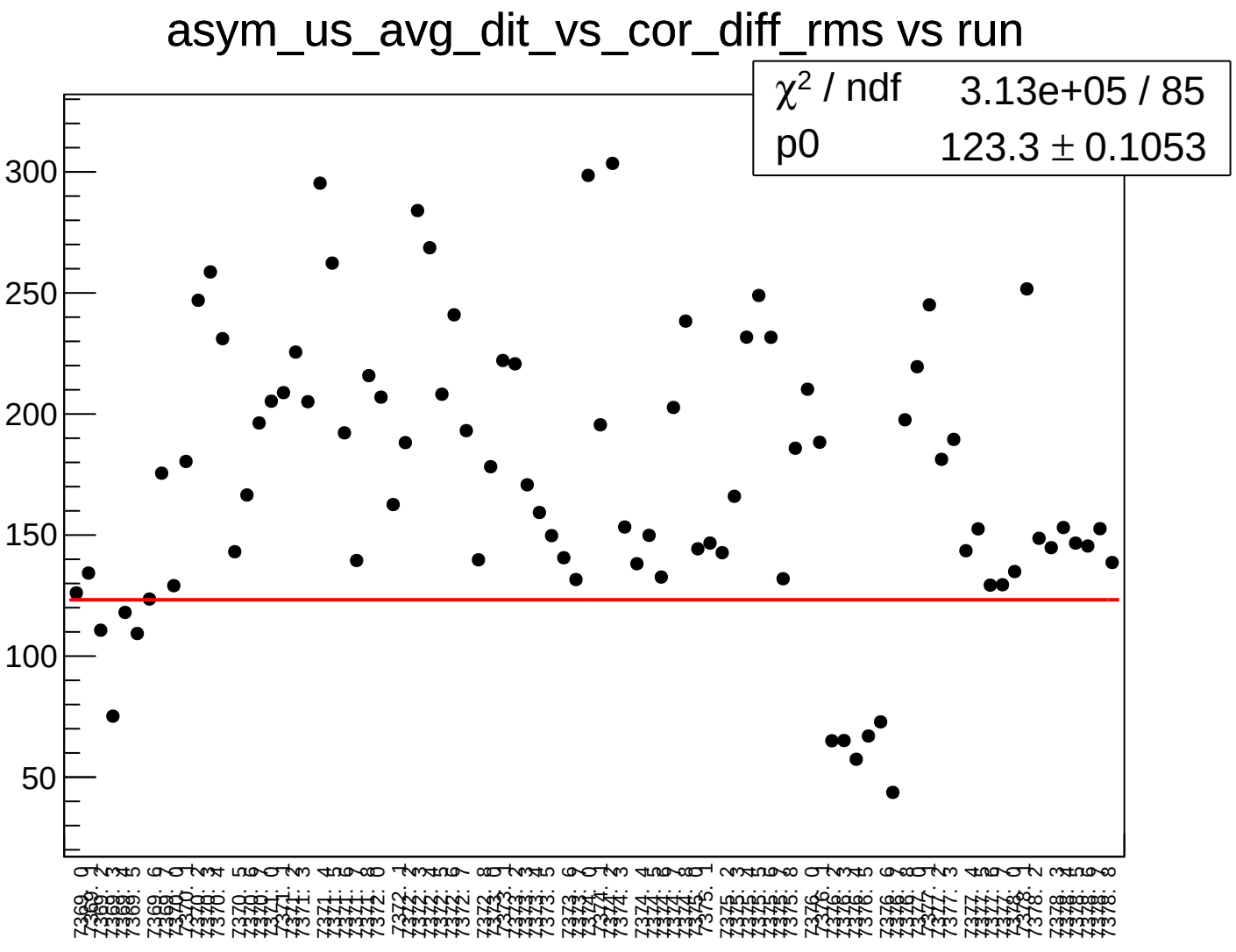

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.52 / 85
p0 −5.678e−15 ± 1.576e−14
pull
Entries 86
Mean 54.79
Std Dev 13.27

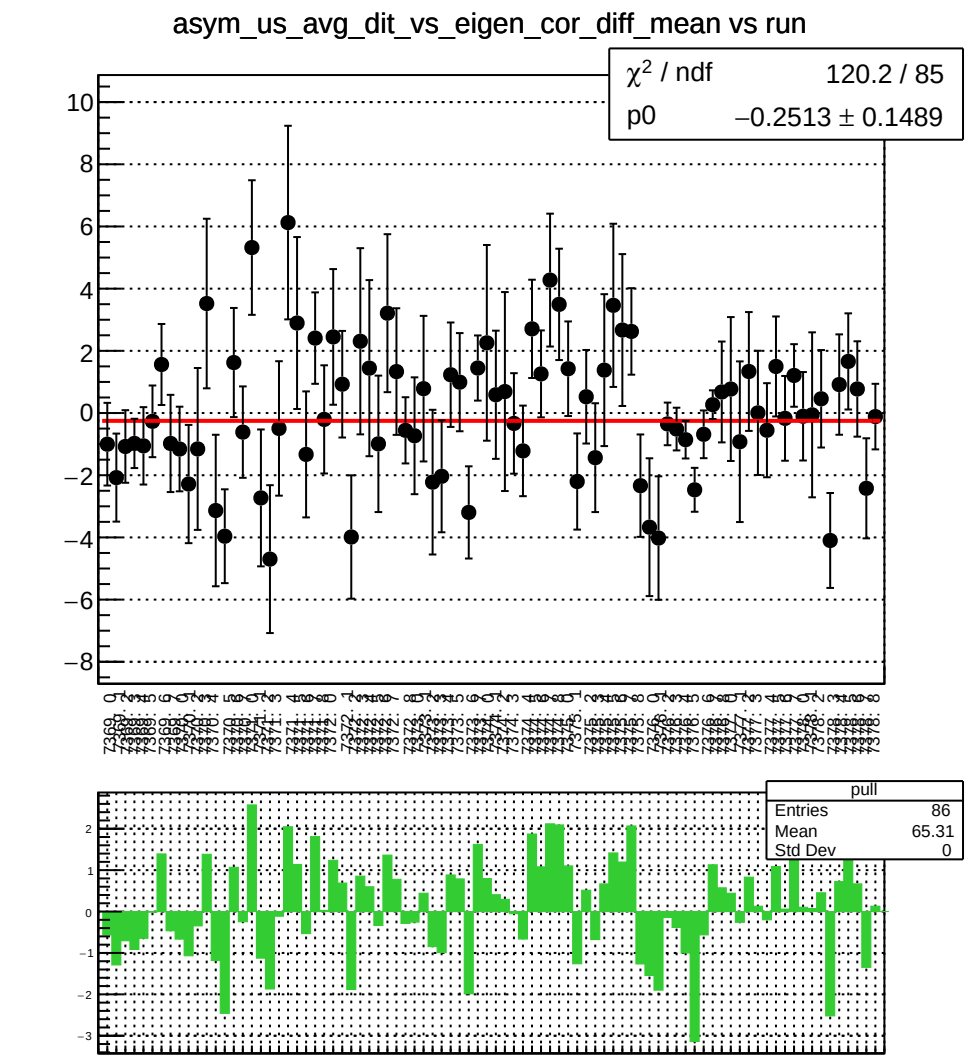

pull1D
Entries 86
Mean 0.08416
Std Dev 0.9579

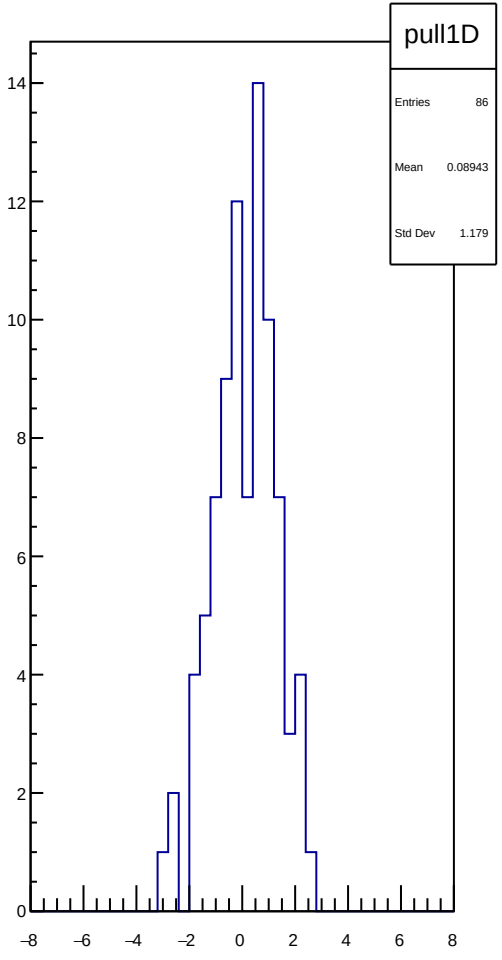

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.713e+05 / 85
p0 1.175e−11 ± 1.114e−14
90
80
70
60
50
40
30
20
10

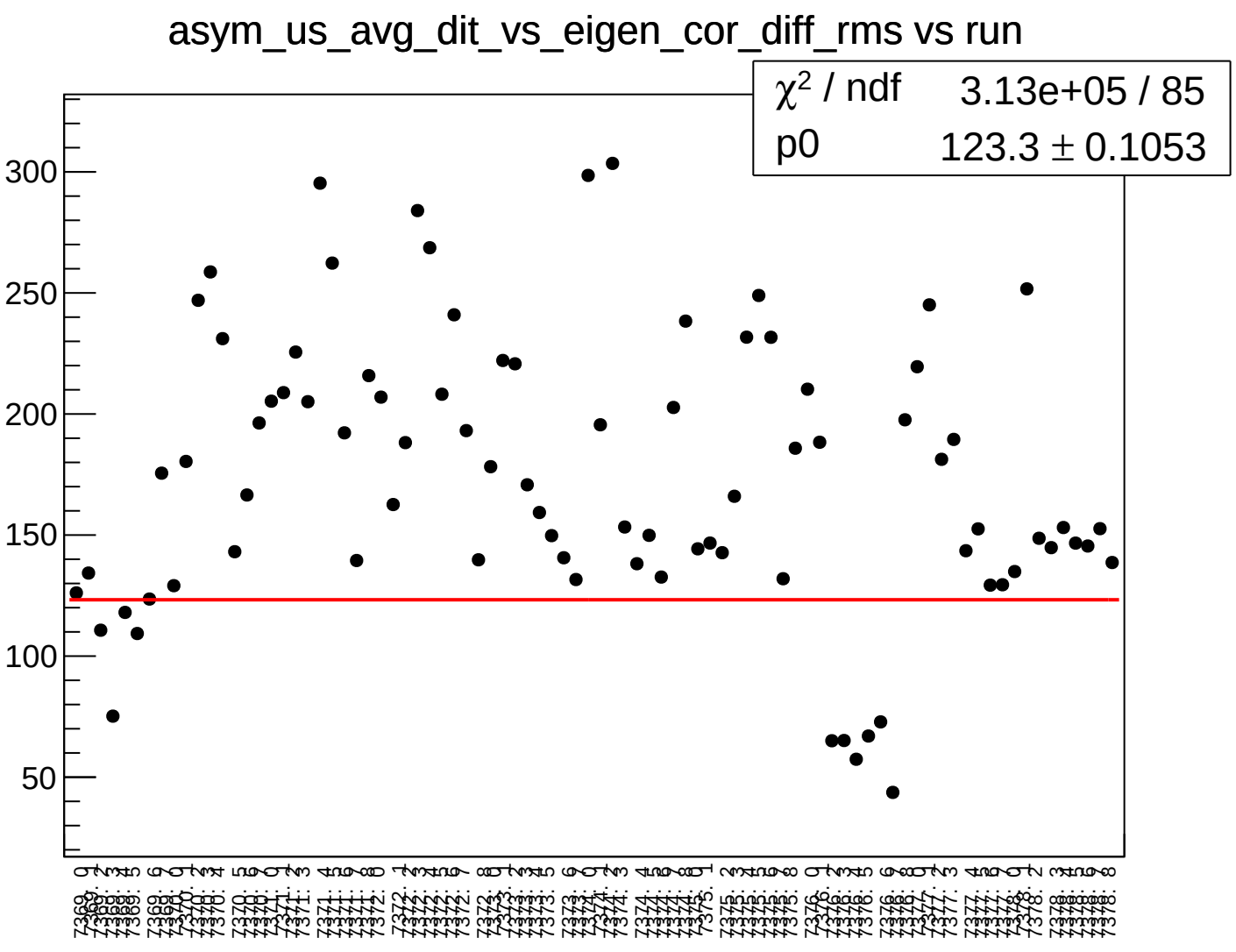

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 120.2 / 85
p0 −0.2513 ± 0.1489
pull
Entries 86
Mean 65.31
Std Dev 0

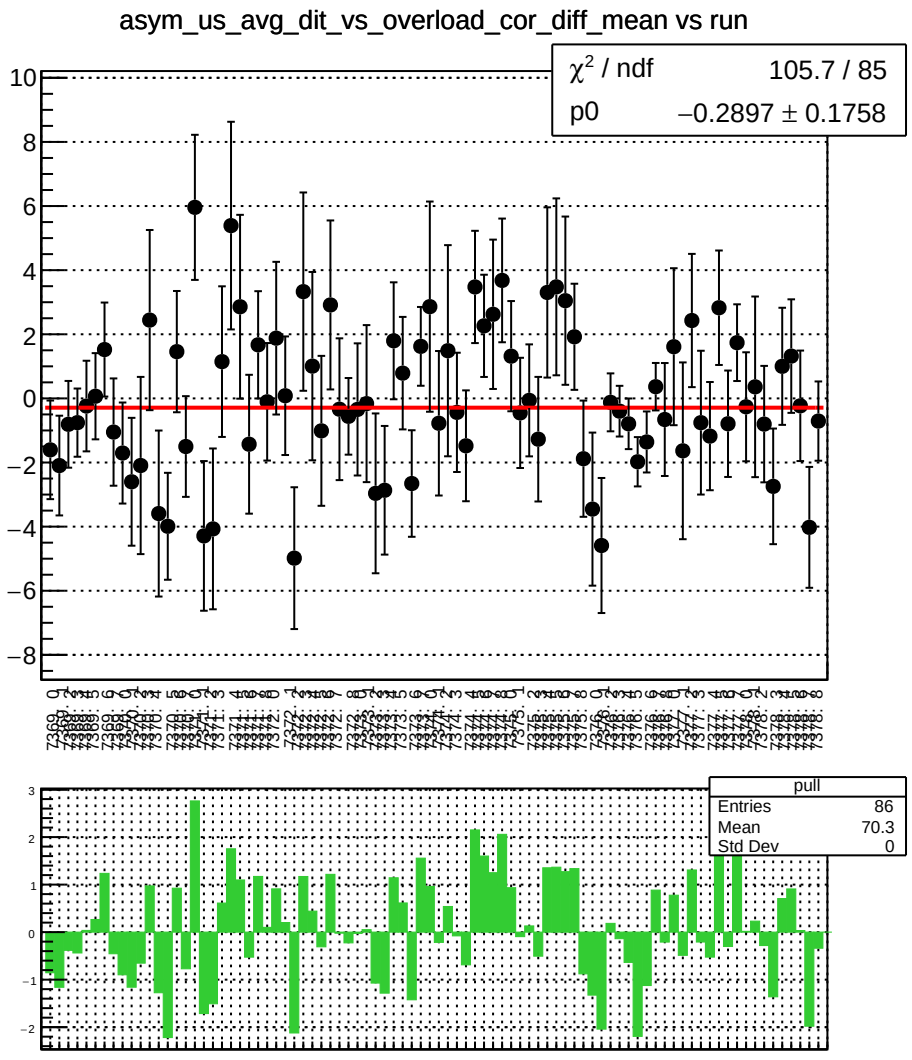

pull1D
Entries 86
Mean 0.08943
Std Dev 1.179

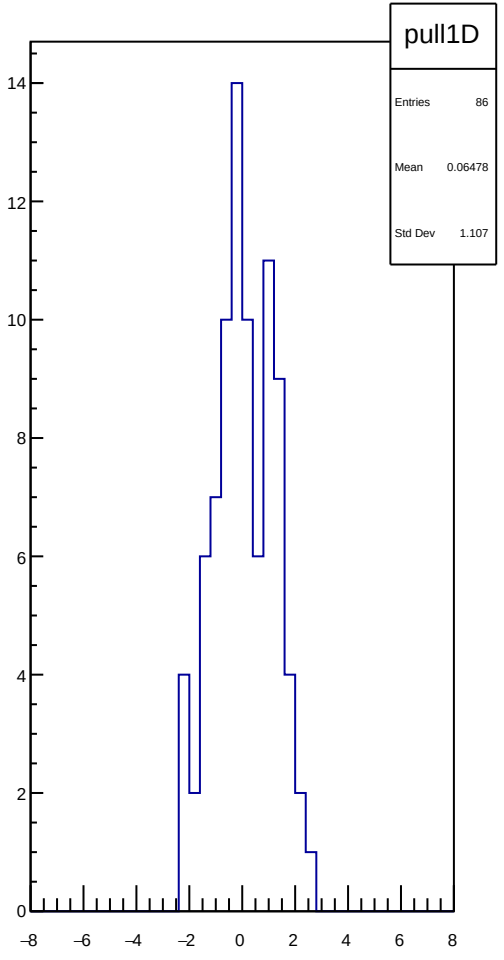

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.13e+05 / 85
p0 123.3 ± 0.1053
300
250
200
150
100
50

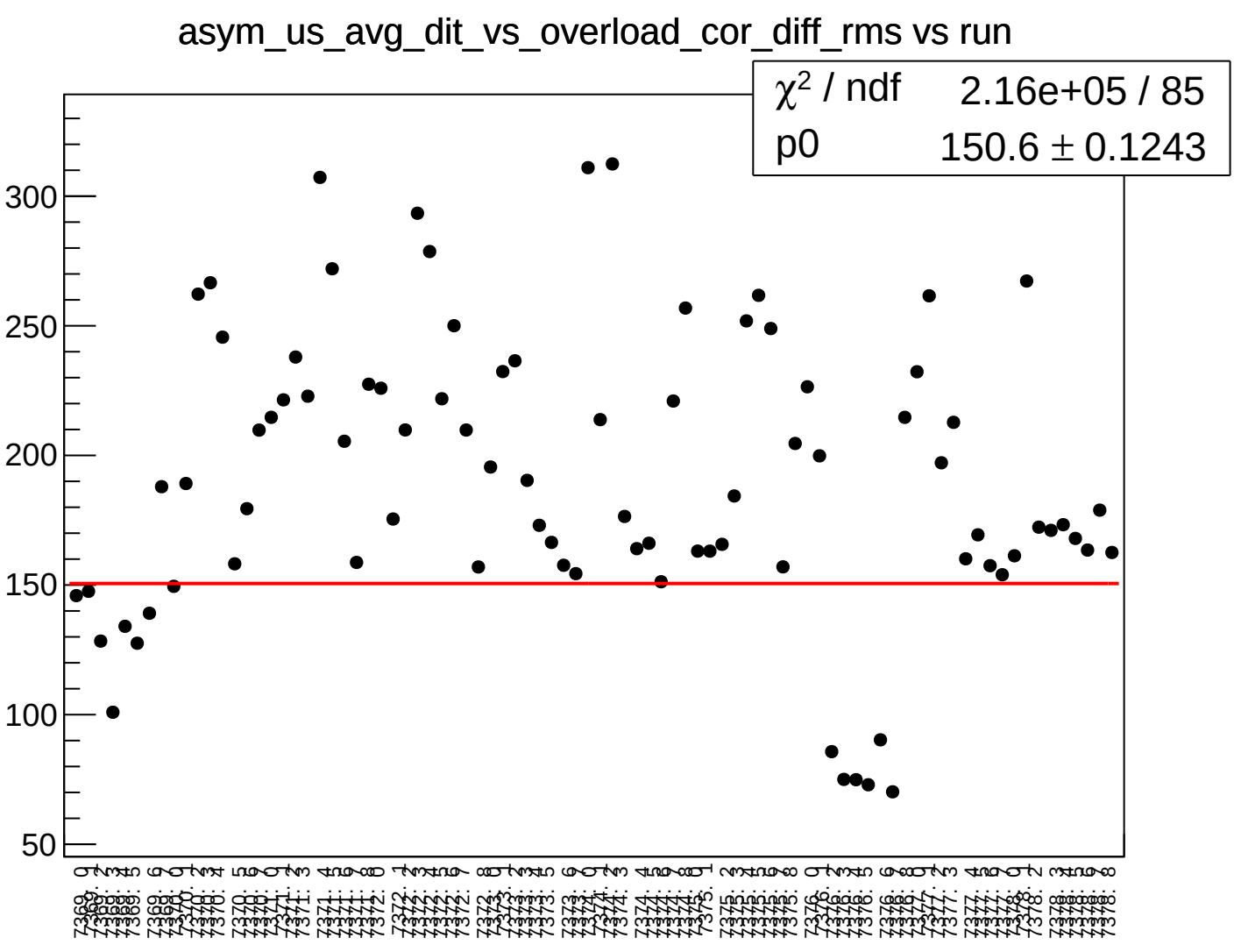

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.2 / 85
p0 −0.2513 ± 0.1489
pull
Entries 86
Mean 65.31
Std Dev 0

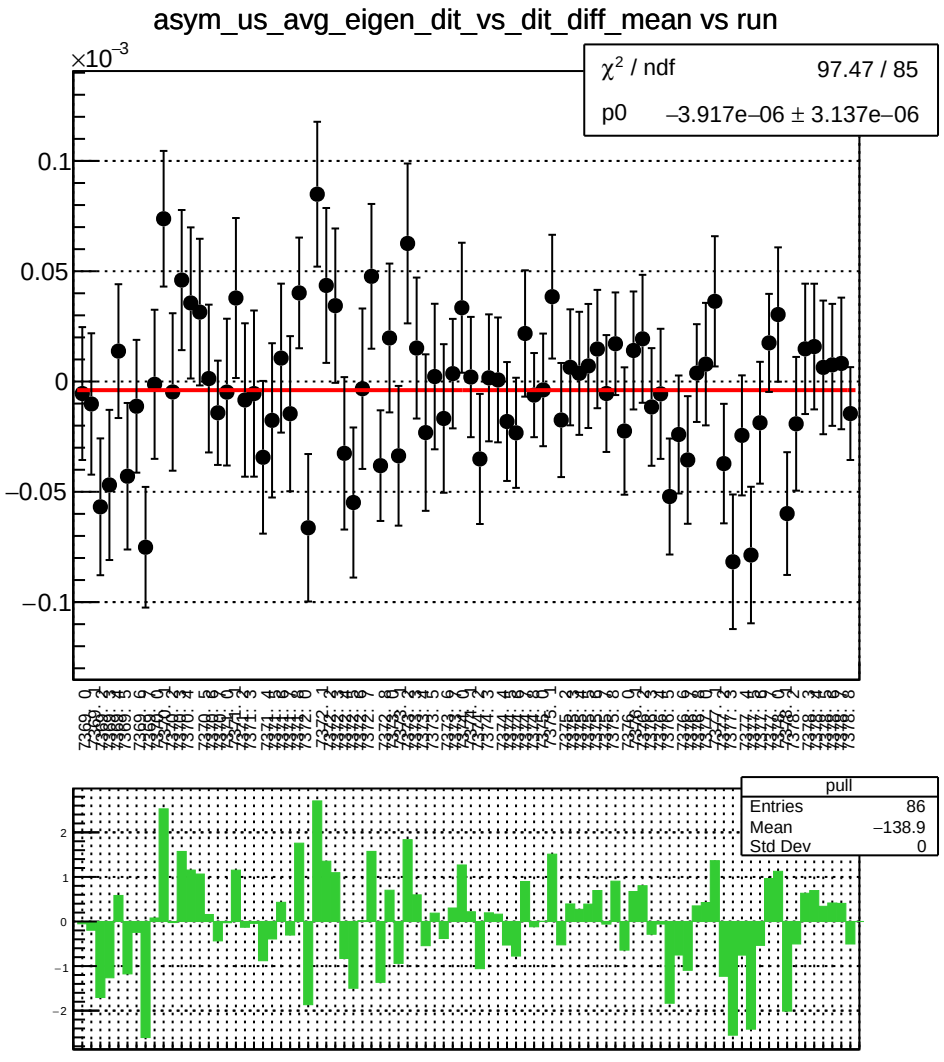

pull1D
Entries 86
Mean 0.08943
Std Dev 1.179

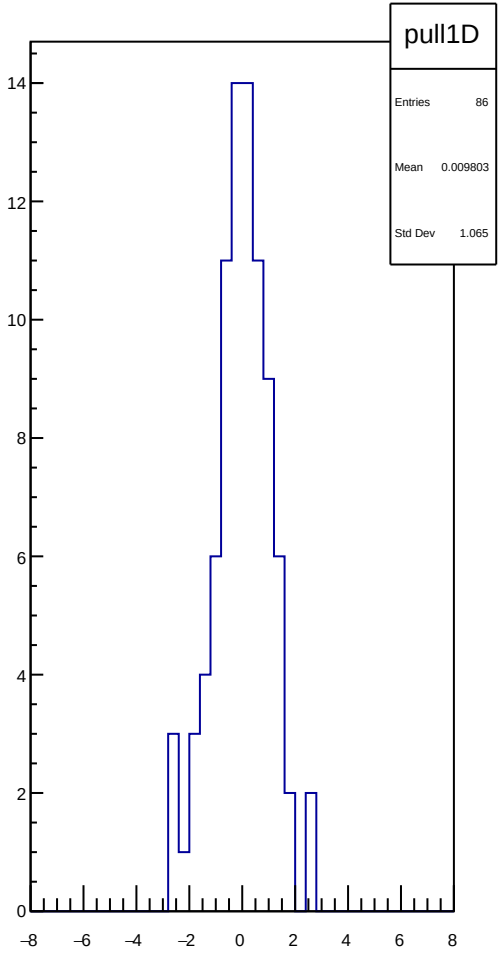

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.13e+05 / 85
p0 123.3 ± 0.1053
300
250
200
150
100
50

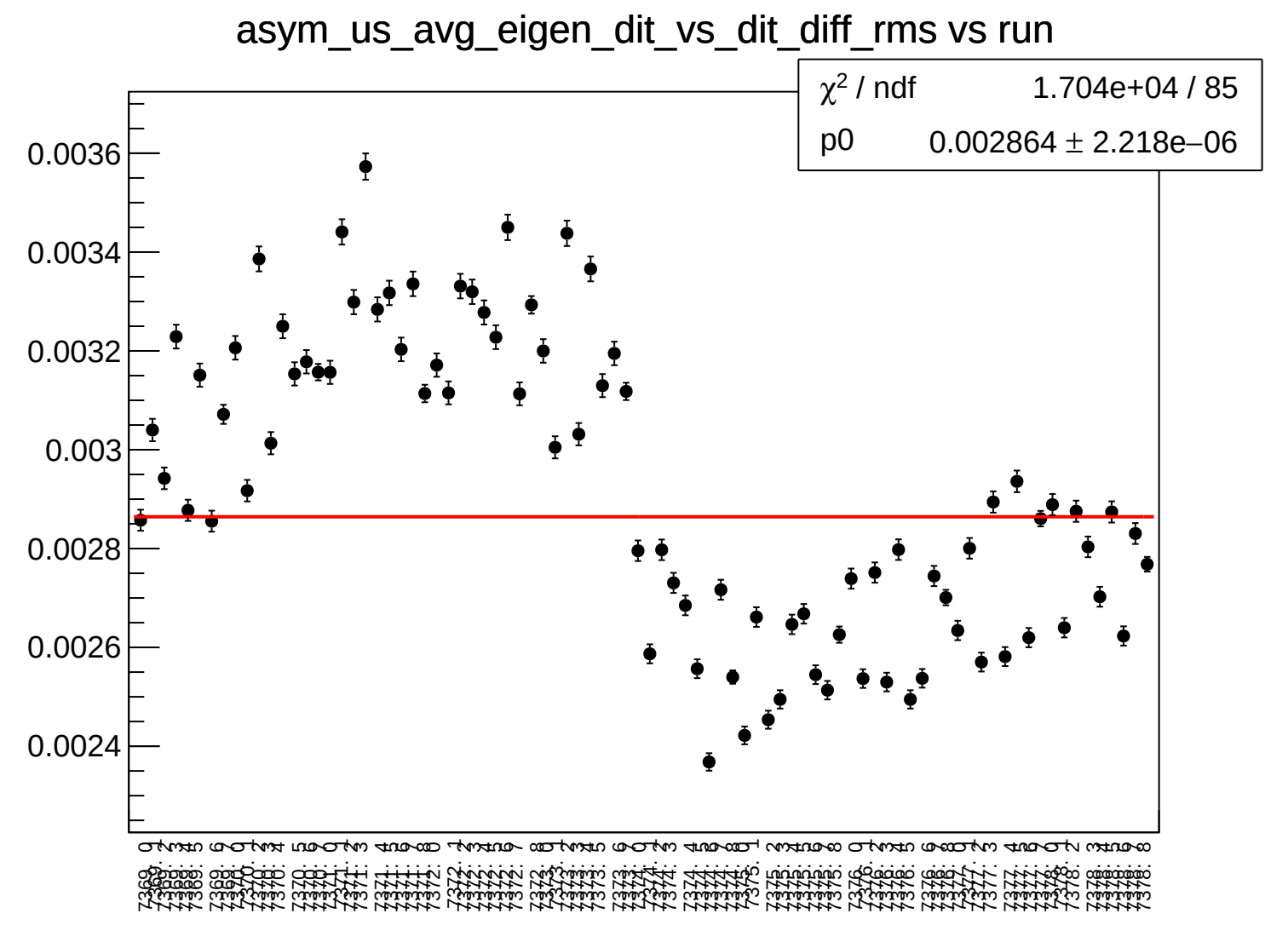

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 105.7 / 85
p0 −0.2897 ± 0.1758
pull
Entries 86
Mean 70.3
Std Dev 0

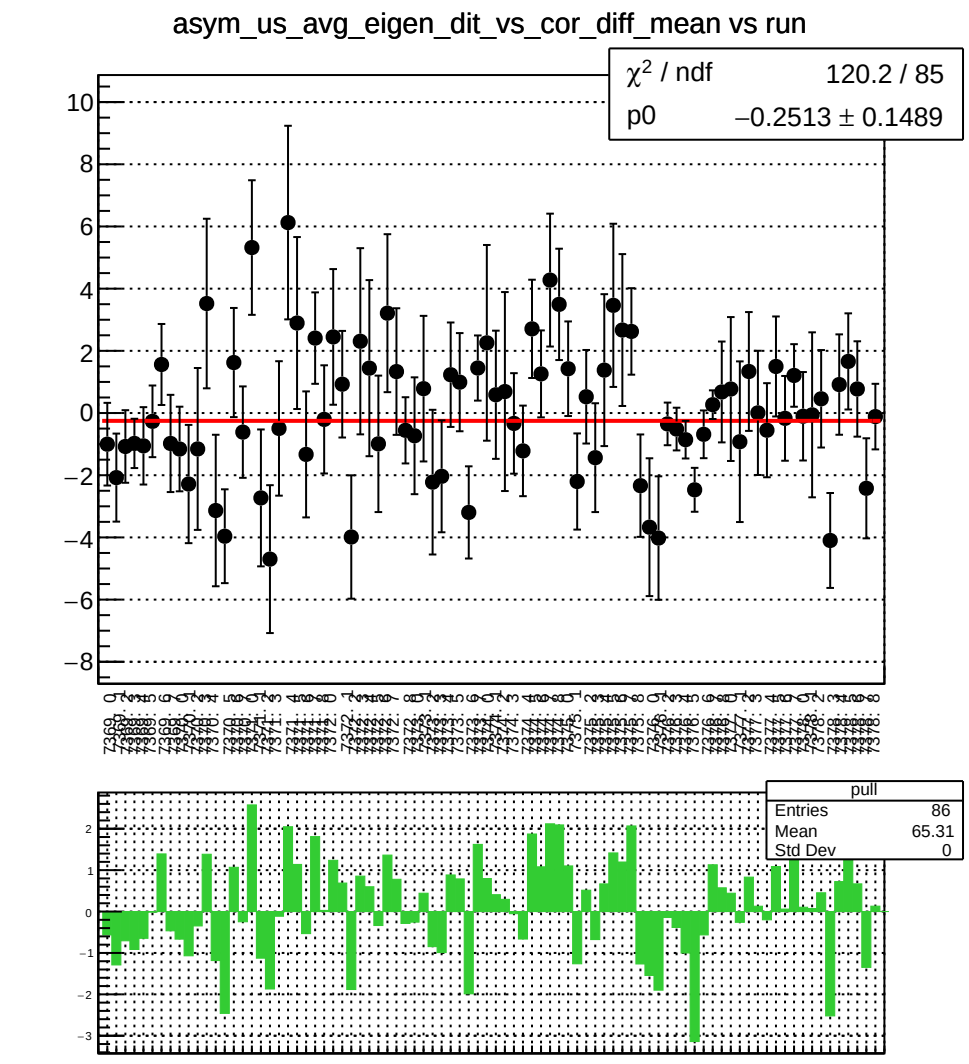

pull1D
Entries 86
Mean 0.06478
Std Dev 1.107

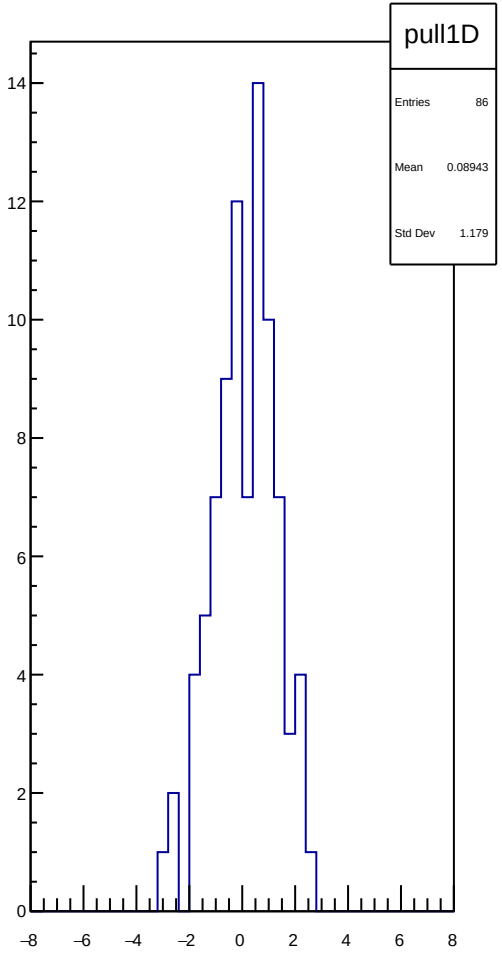

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.16e+05 / 85
p0 150.6 ± 0.1243
300
250
200
150
100
50

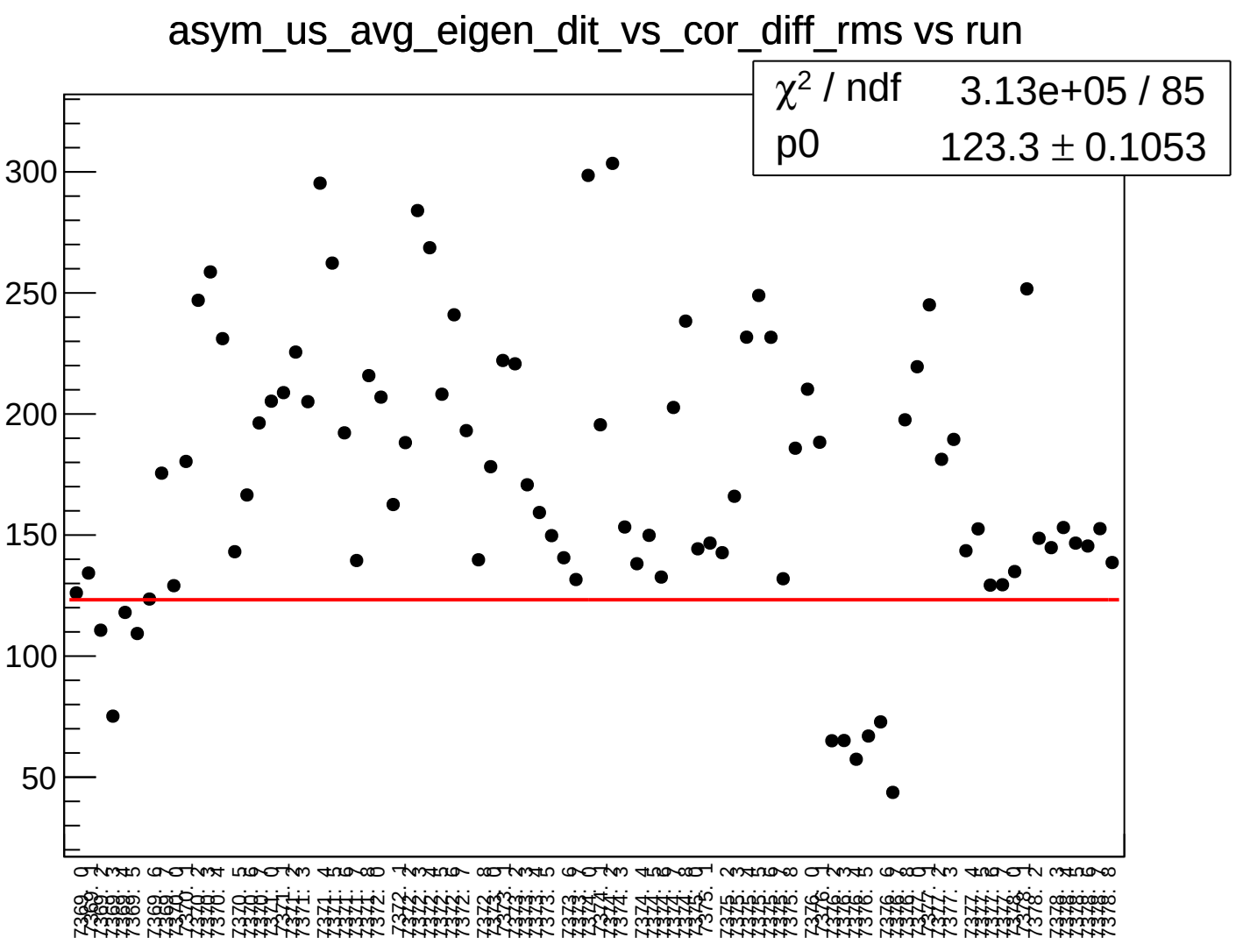

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.47 / 85
p0 −3.917e−06 ± 3.137e−06
pull
Entries 86
Mean −138.9
Std Dev 0

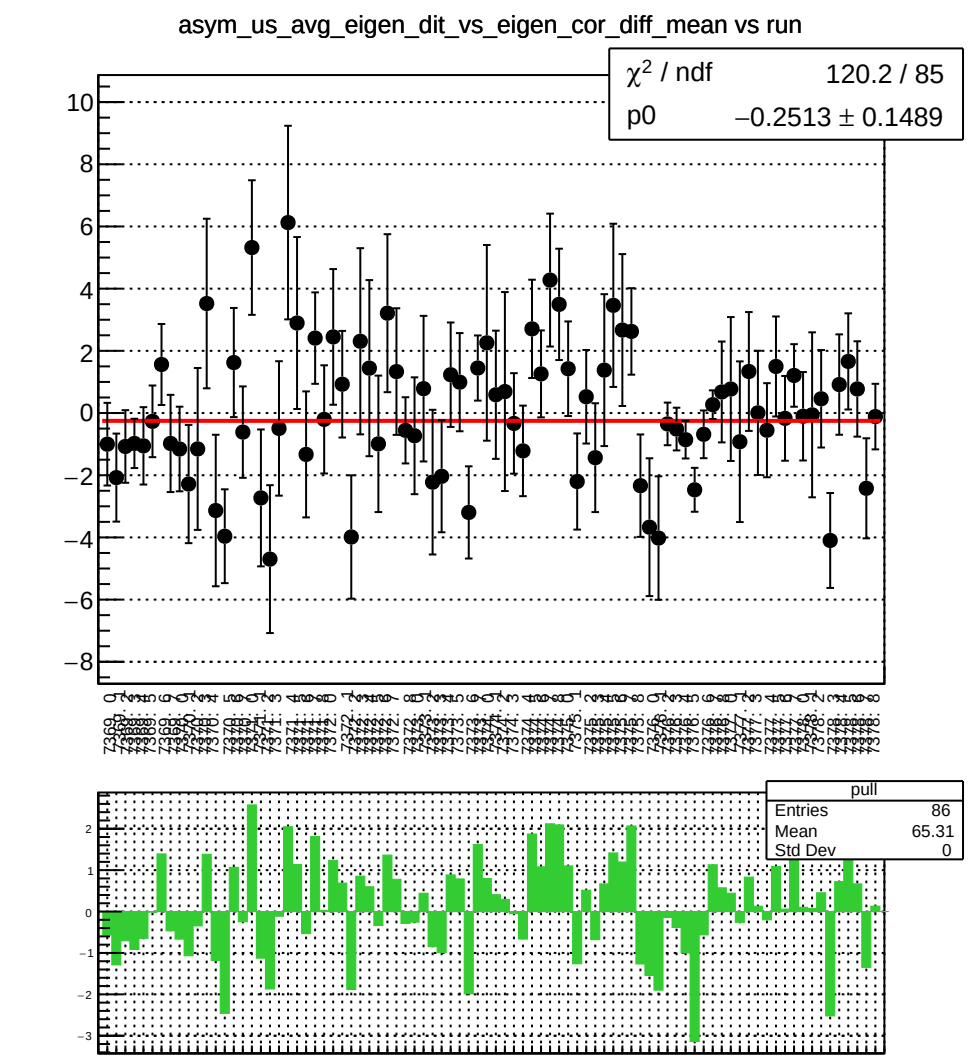

pull1D
Entries 86
Mean 0.009803
Std Dev 1.065

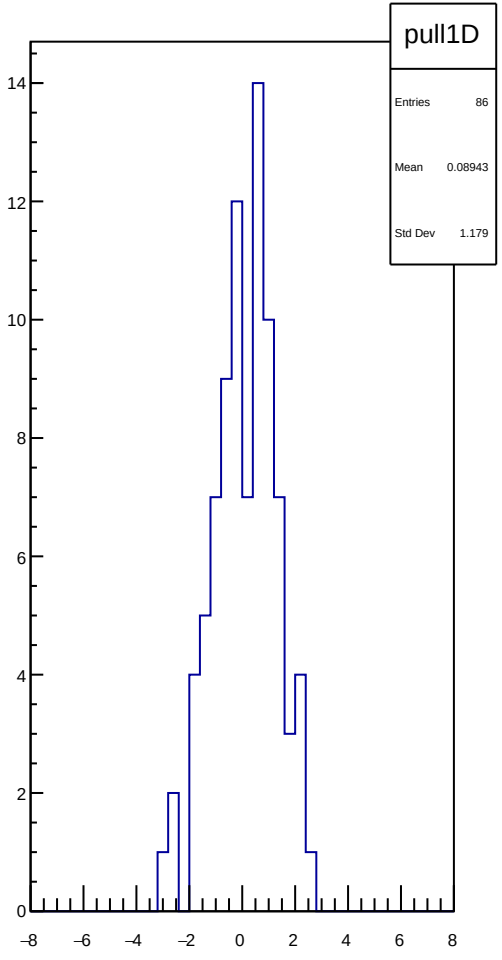

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.704e+04 / 85
p0 0.002864 ± 2.218e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

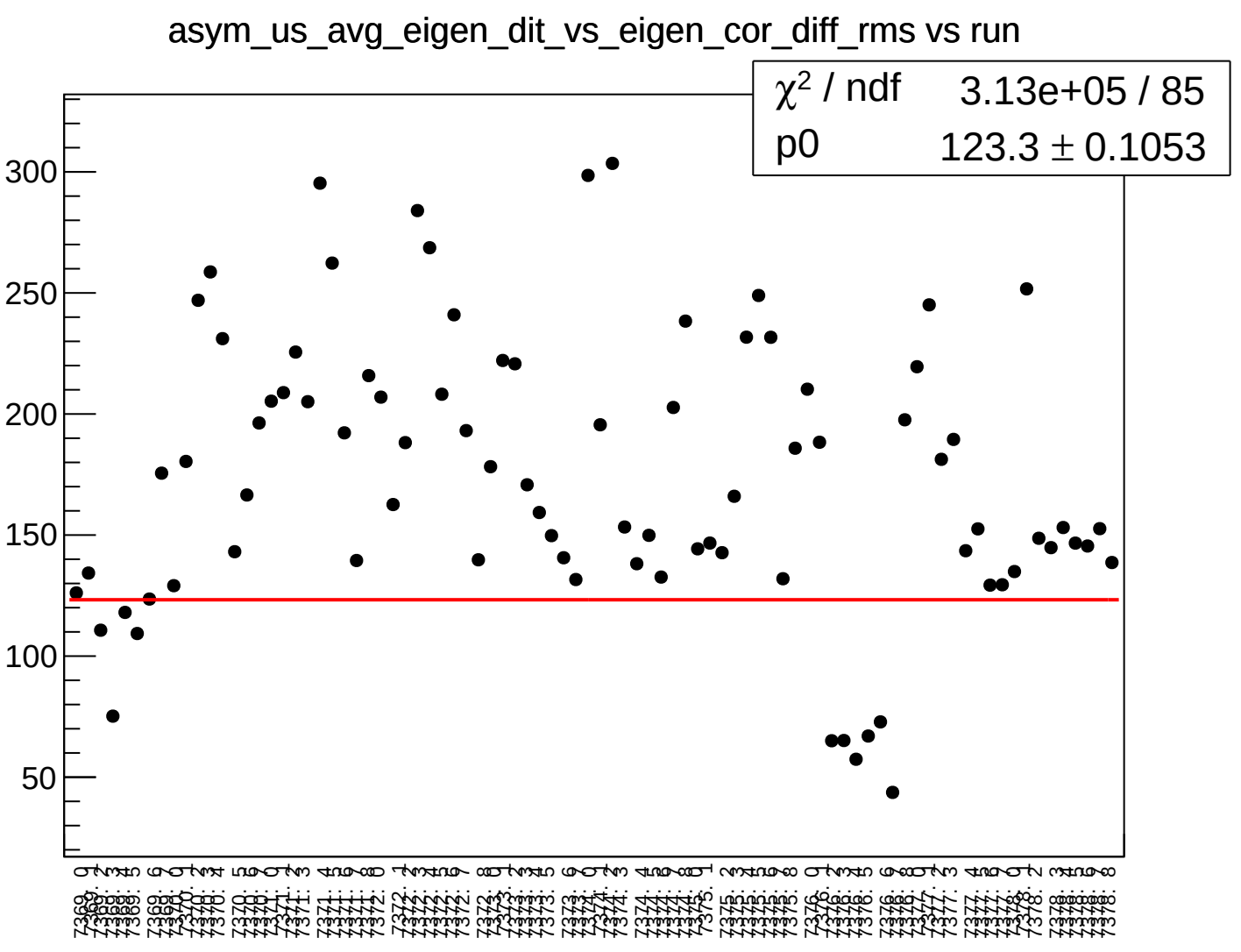

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120.2 / 85
p0 −0.2513 ± 0.1489
pull
Entries 86
Mean 65.31
Std Dev 0


pull1D
Entries 86
Mean 0.08943
Std Dev 1.179

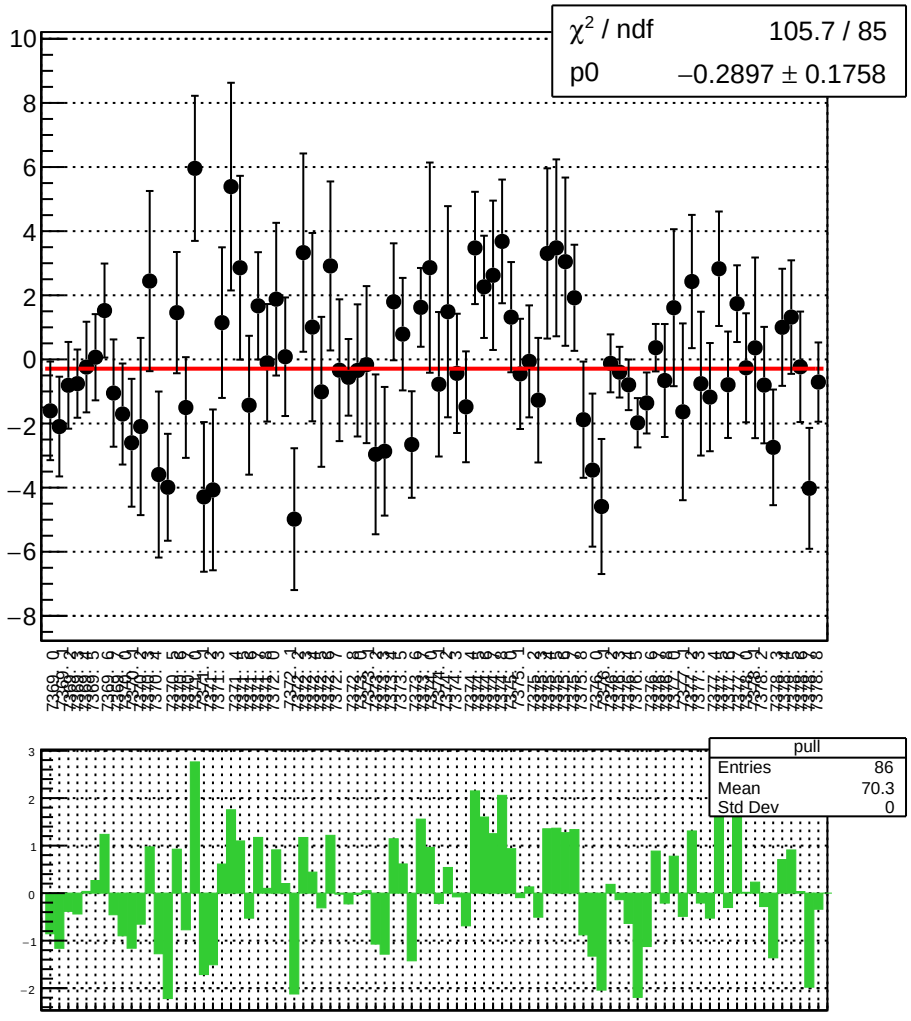

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.13e+05 / 85
p0 123.3 ± 0.1053
300
250
200
150
100
50

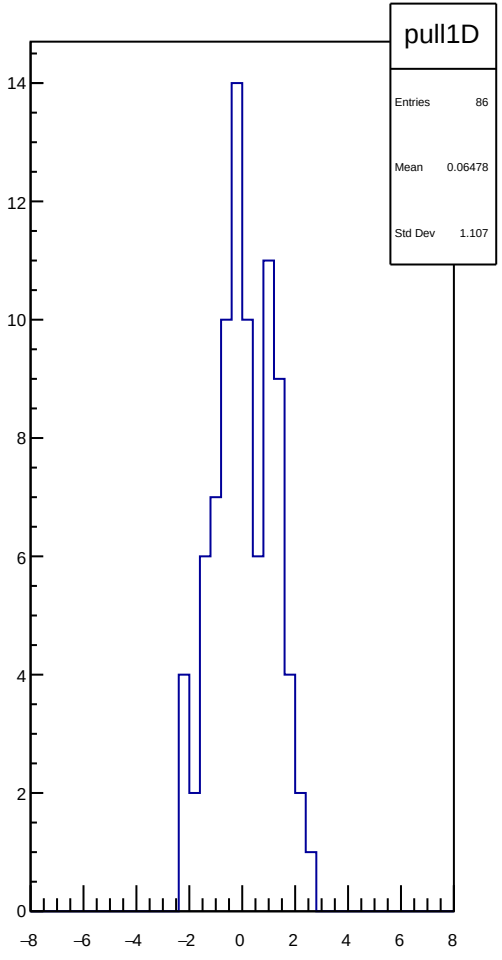

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.2 / 85
p0 −0.2513 ± 0.1489
pull
Entries 86
Mean 65.31
Std Dev 0

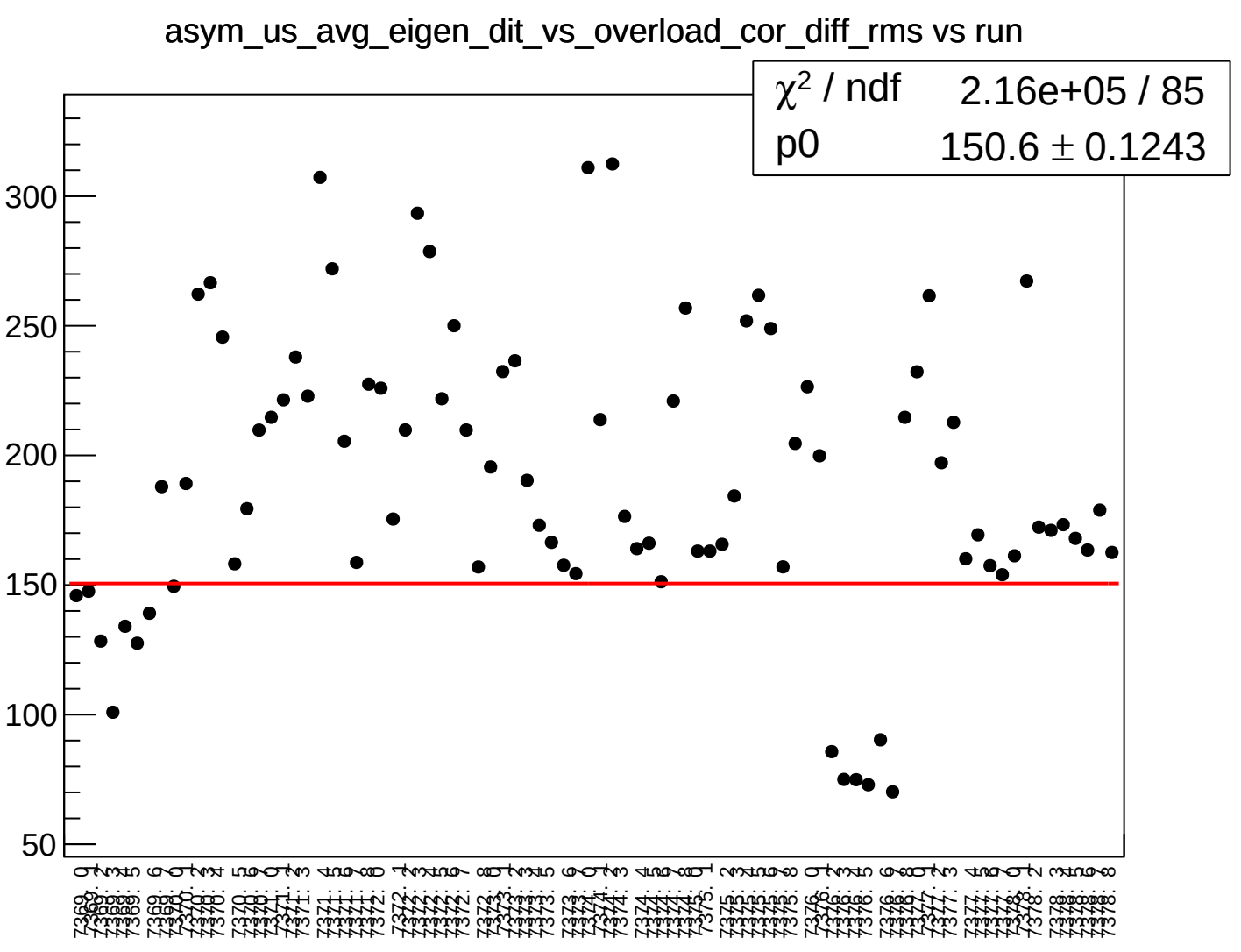

pull1D
Entries 86
Mean 0.08943
Std Dev 1.179

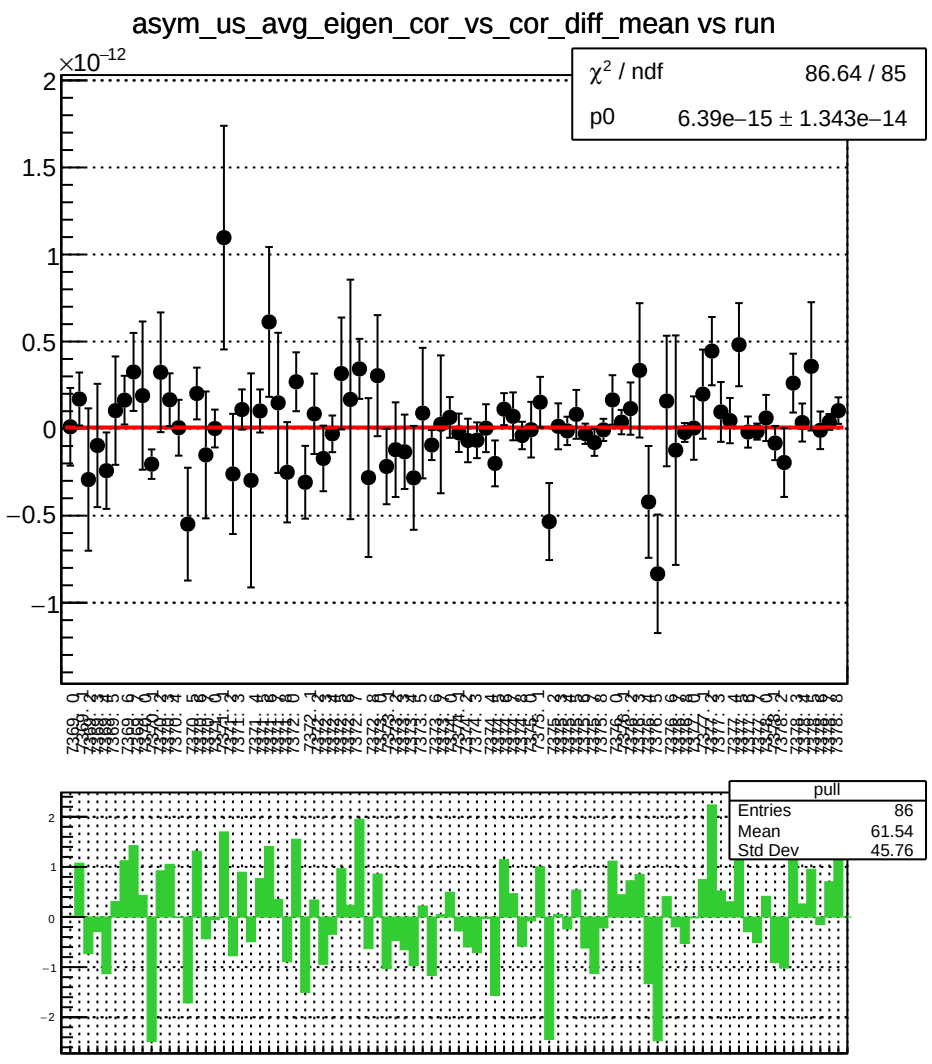

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.13e+05 / 85
p0 123.3 ± 0.1053
300
250
200
150
100
50

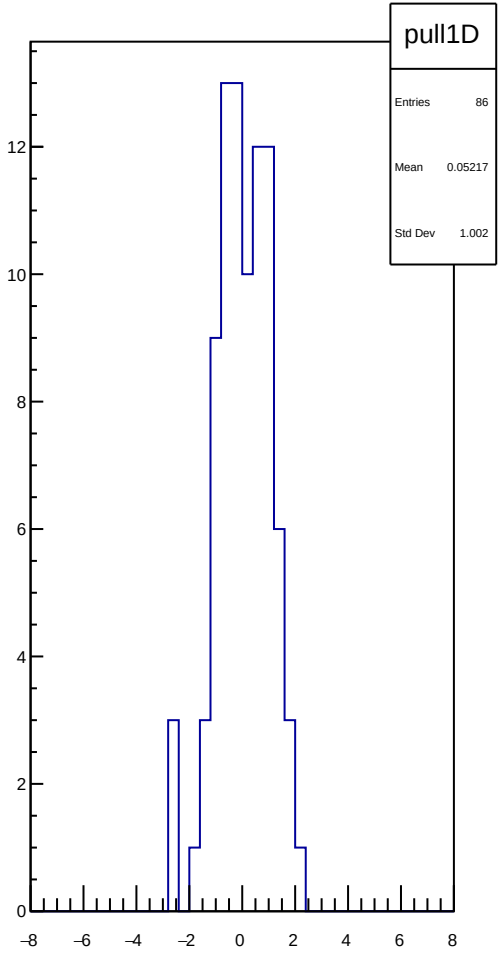
asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run

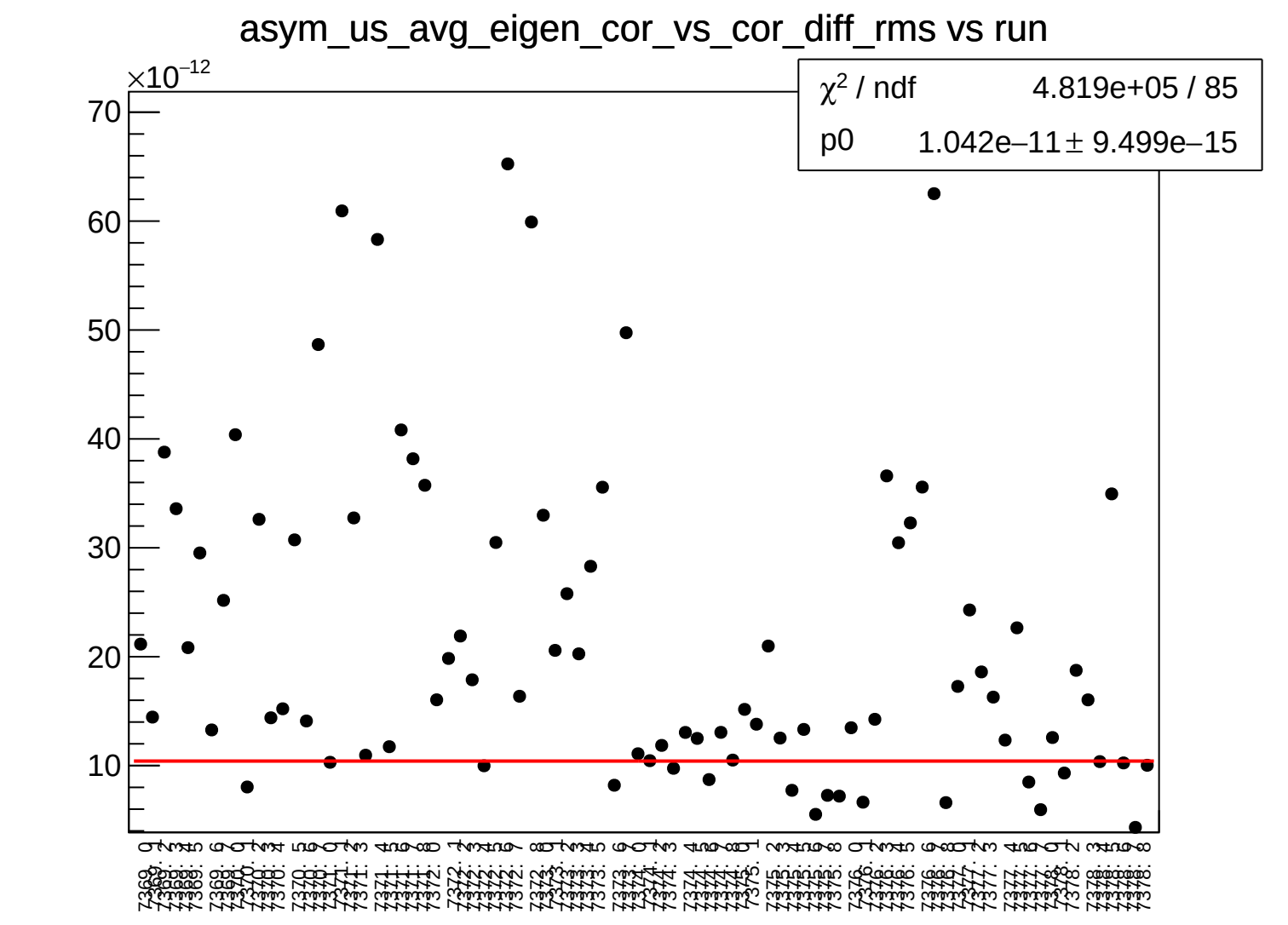


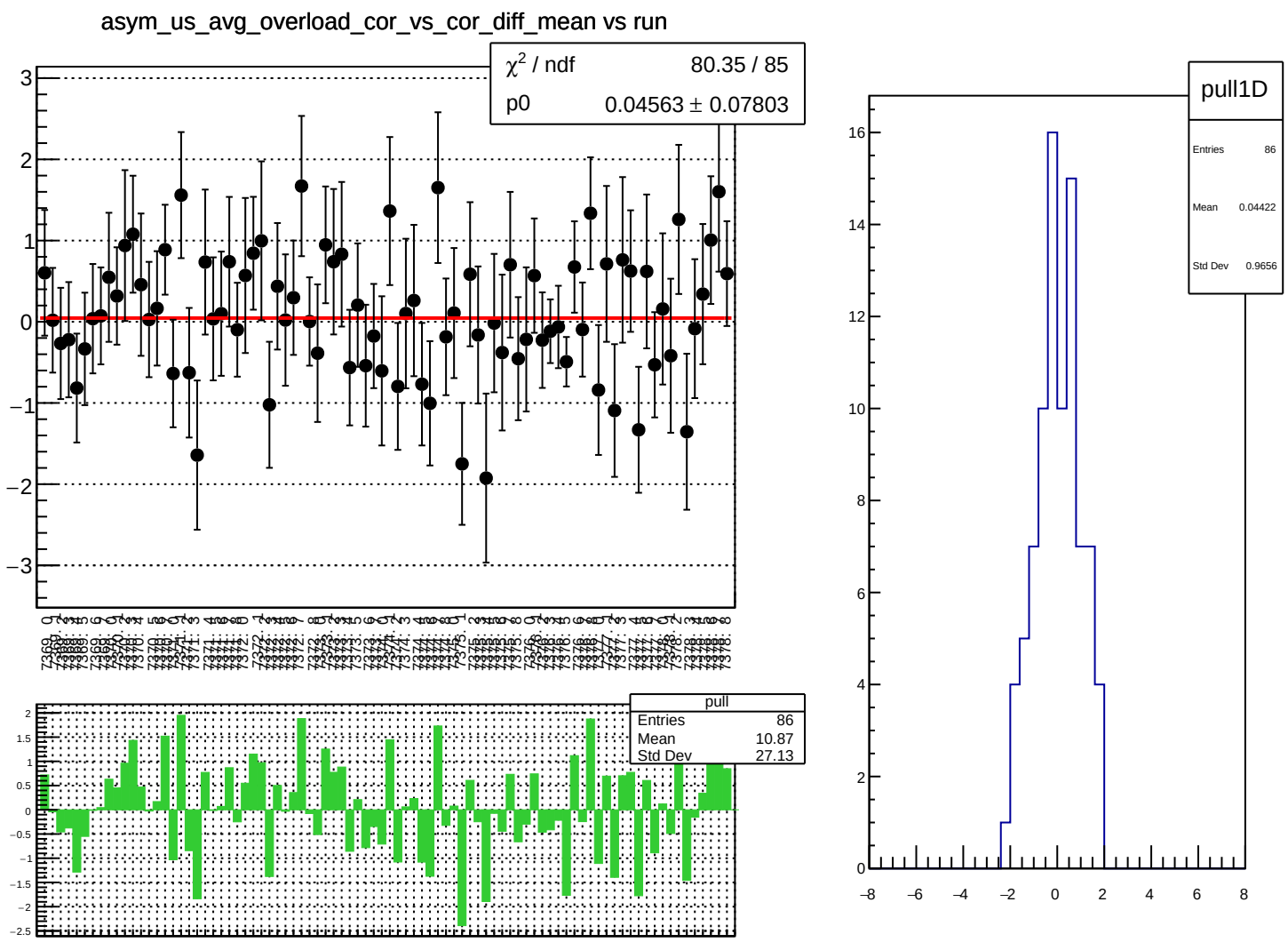


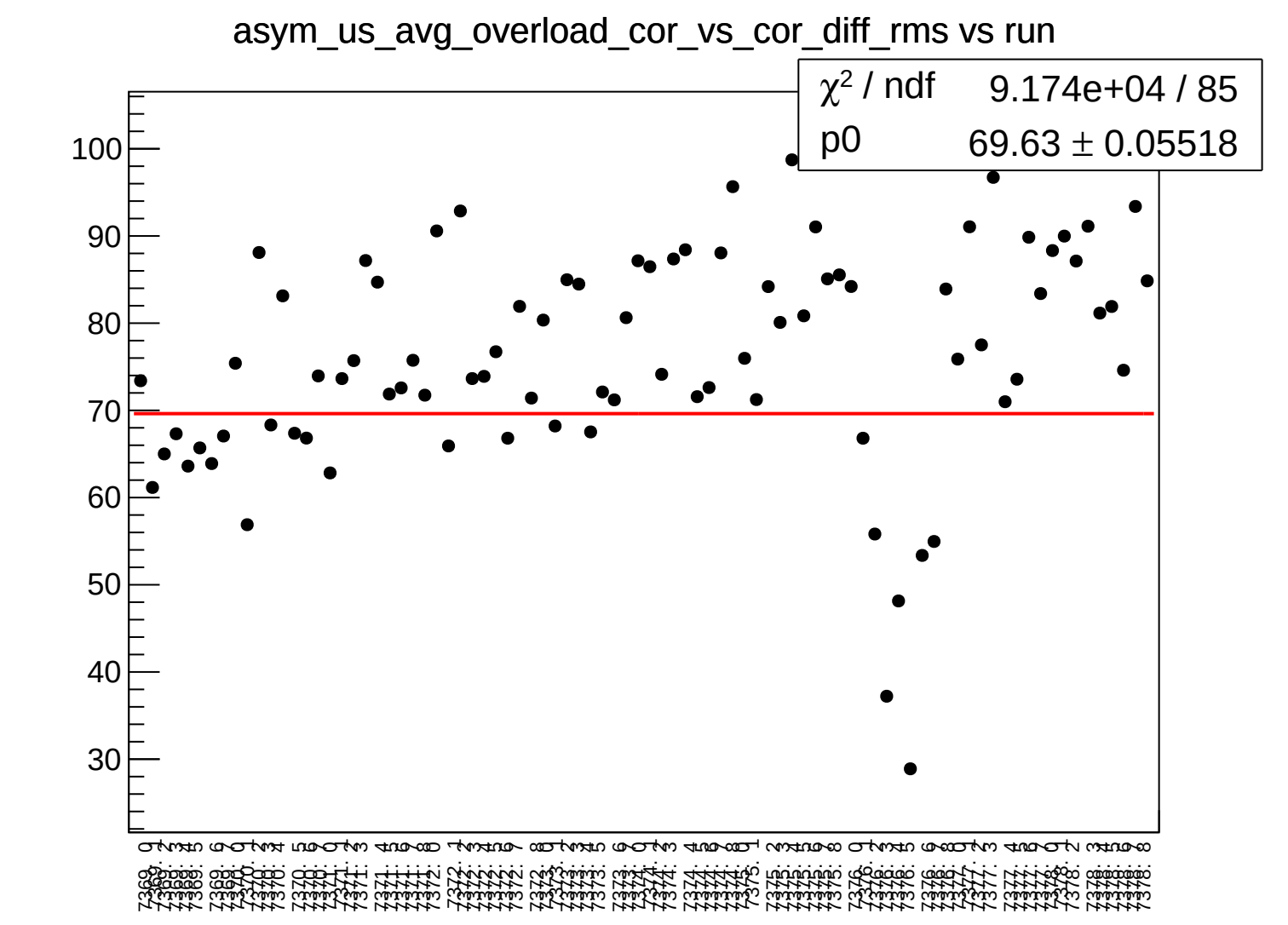

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.16e+05 / 85
p0 150.6 ± 0.1243
300
250
200
150
100
50

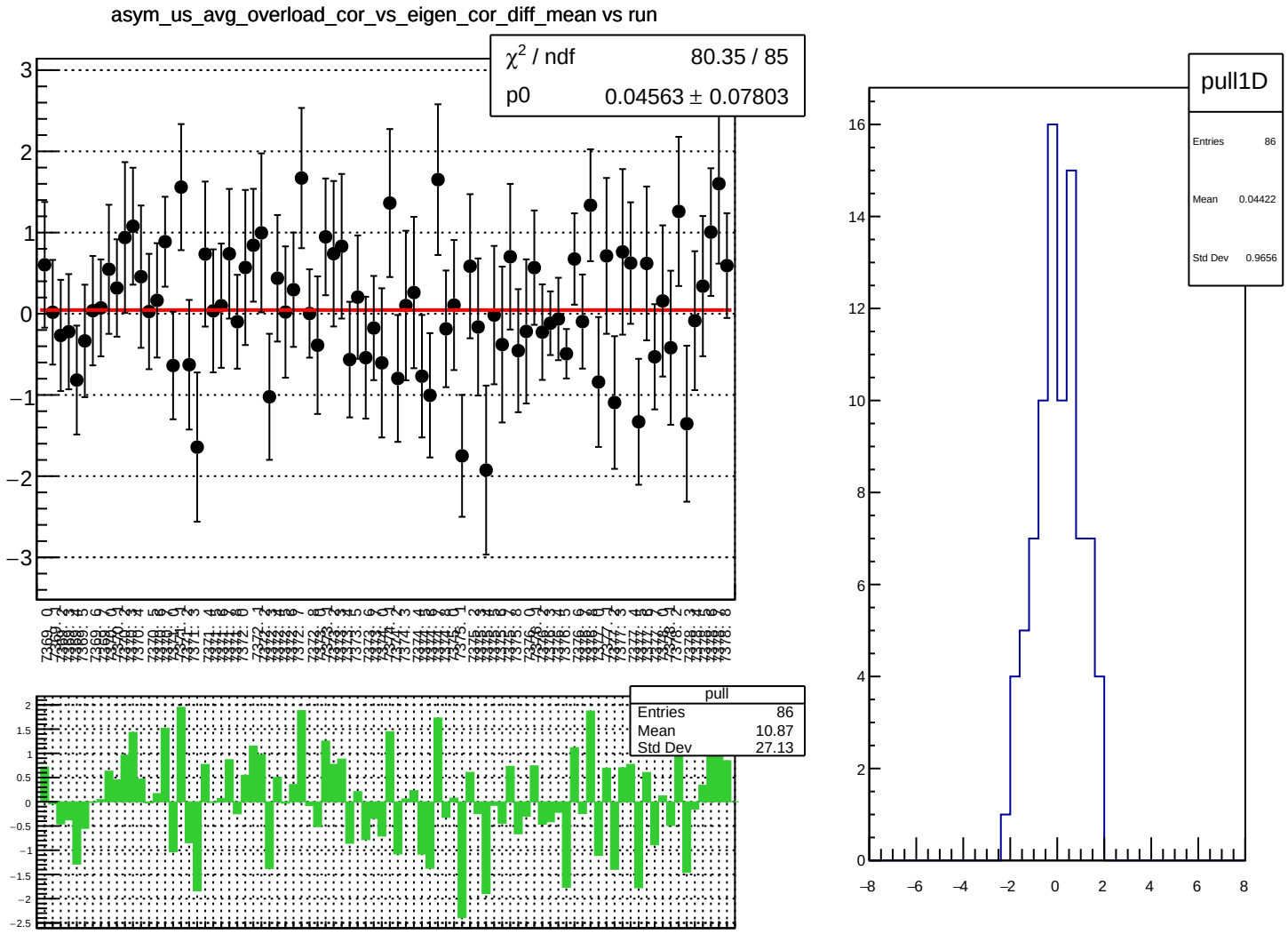

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.64 / 85
p0 6.39e−15 ± 1.343e−14
pull
Entries 86
Mean 61.54
Std Dev 45.76

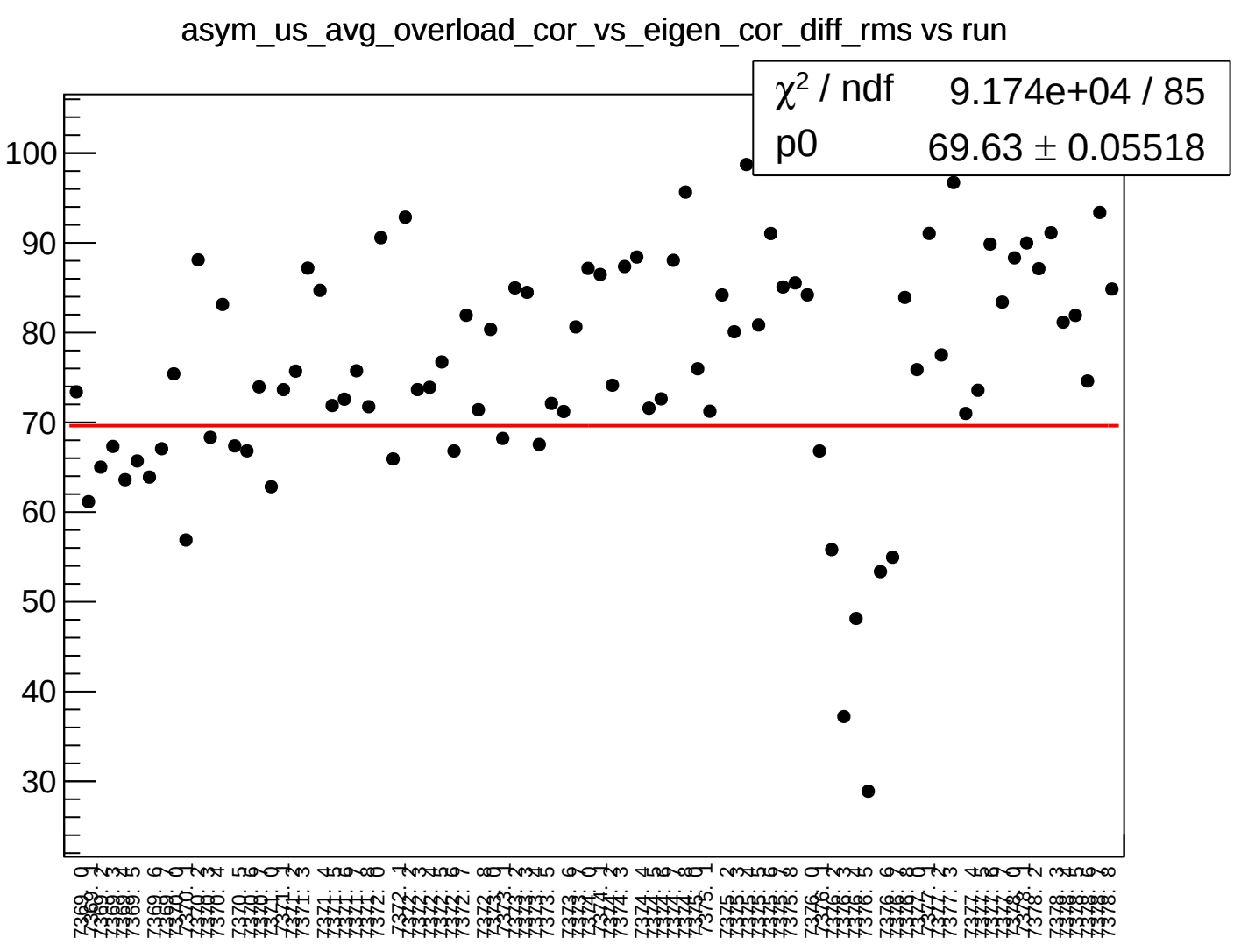

pull1D
Entries 86
Mean 0.05217
Std Dev 1.002

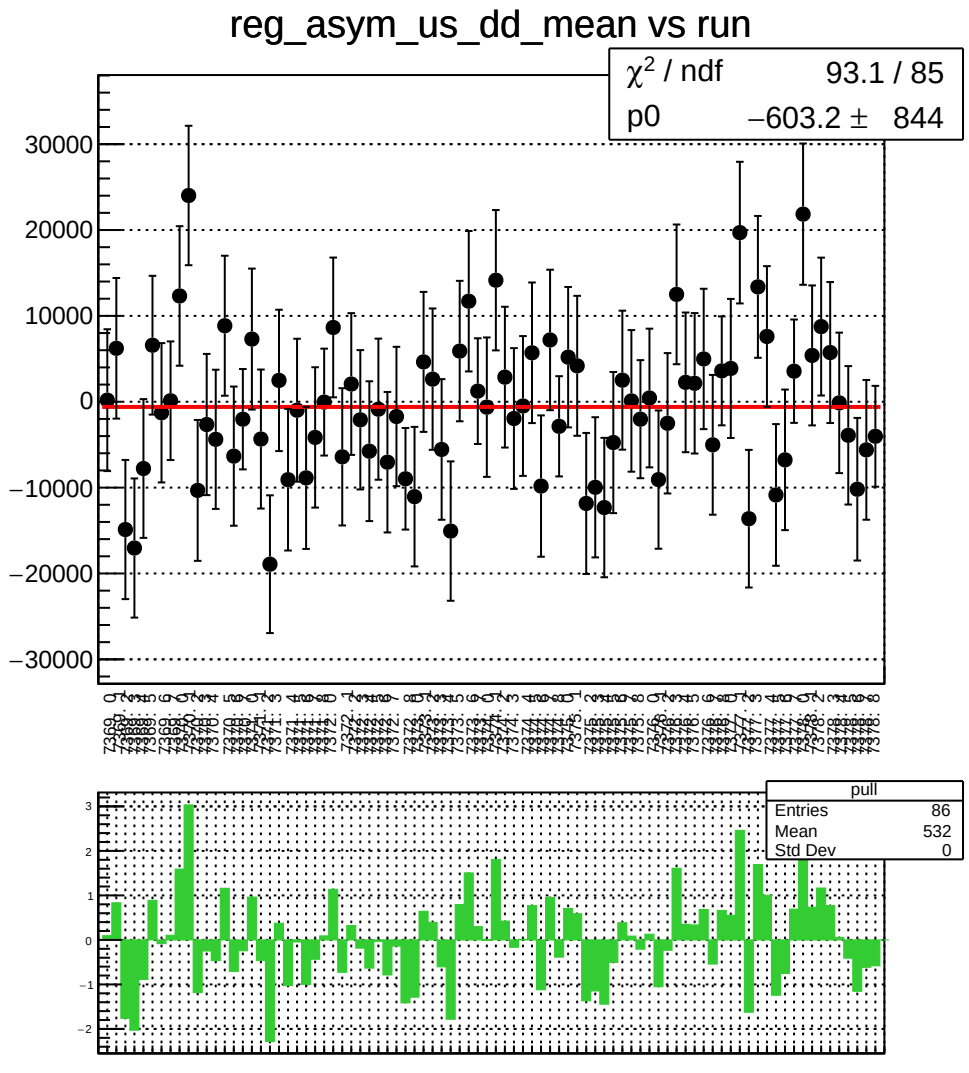

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.819e+05 / 85
p0 1.042e−11 ± 9.499e−15
70
60
50
40
30
20
10

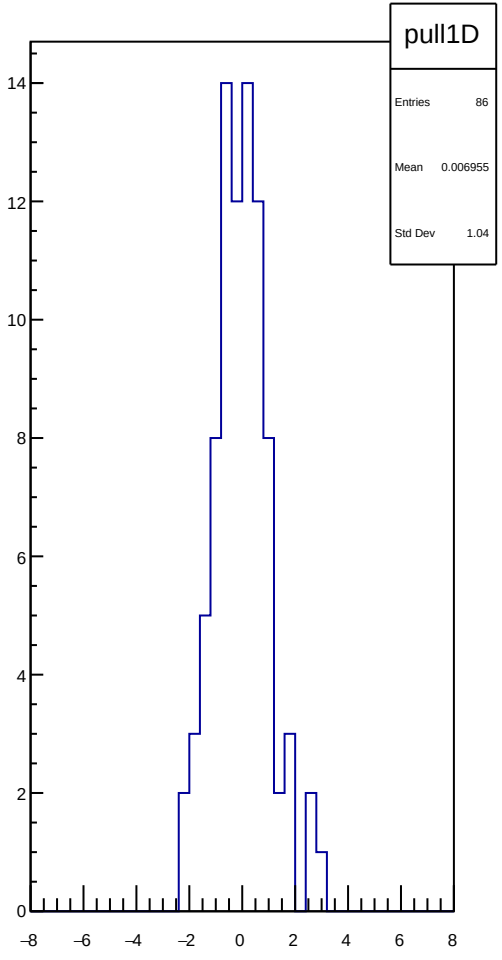

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 80.35 / 85
p0 0.04563 ± 0.07803
pull
Entries 86
Mean 10.87
Std Dev 27.13
pull1D
Entries 86
Mean 0.04422
Std Dev 0.9656

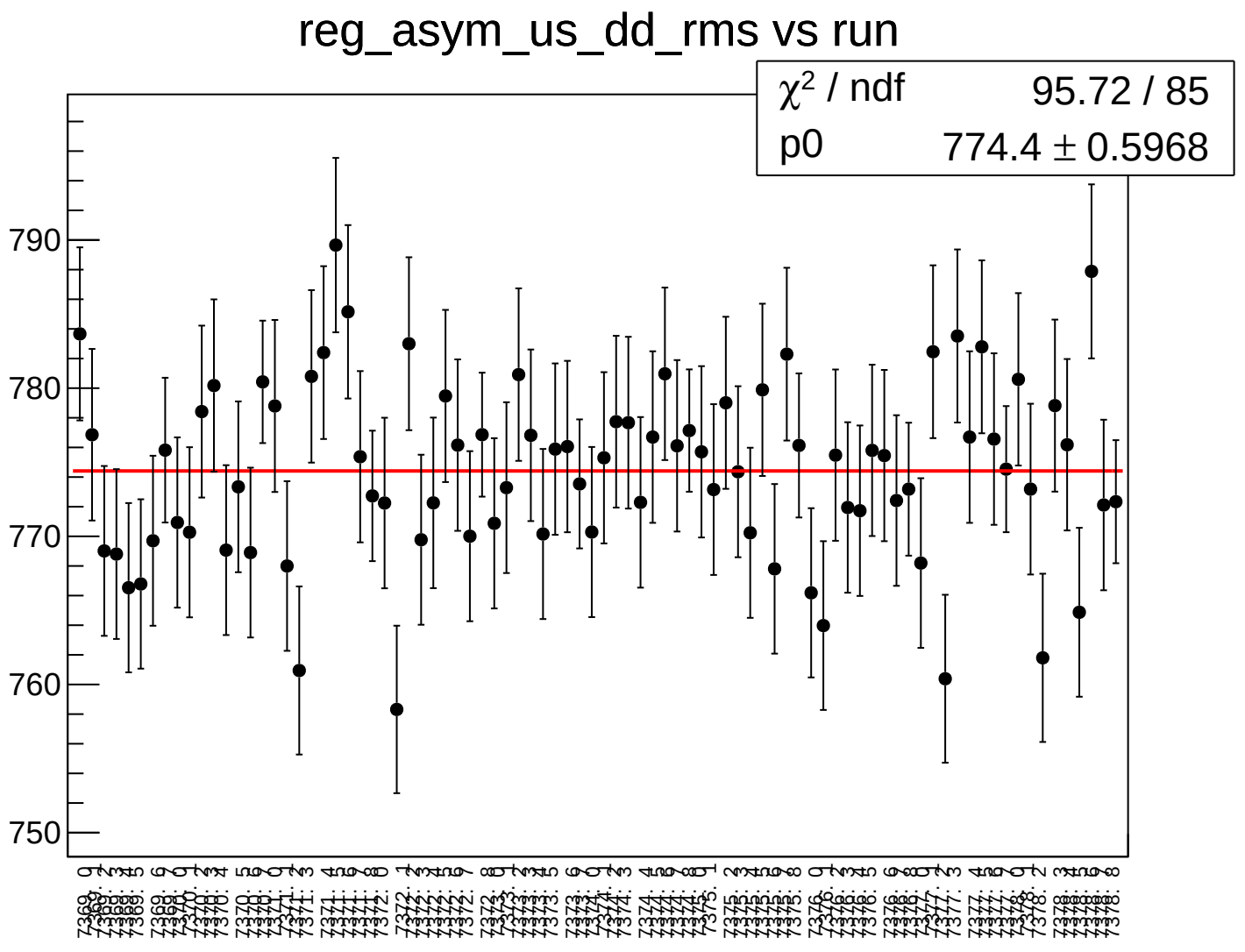

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.174e+04 / 85
p0 69.63 ± 0.05518
100
90
80
70
60
50
40
30

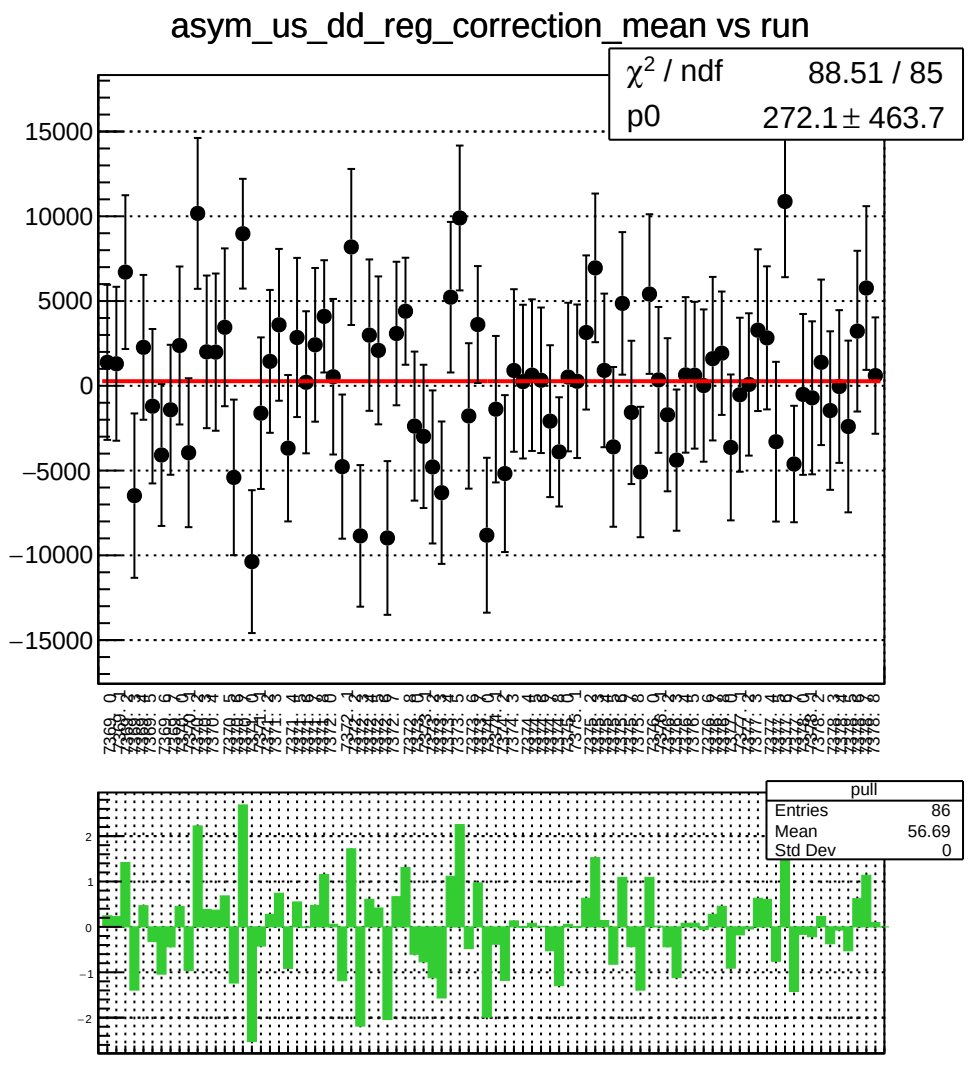

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.35 / 85
p0 0.04563 ± 0.07803
pull
Entries 86
Mean 10.87
Std Dev 27.13
pull1D
Entries 86
Mean 0.04422
Std Dev 0.9656

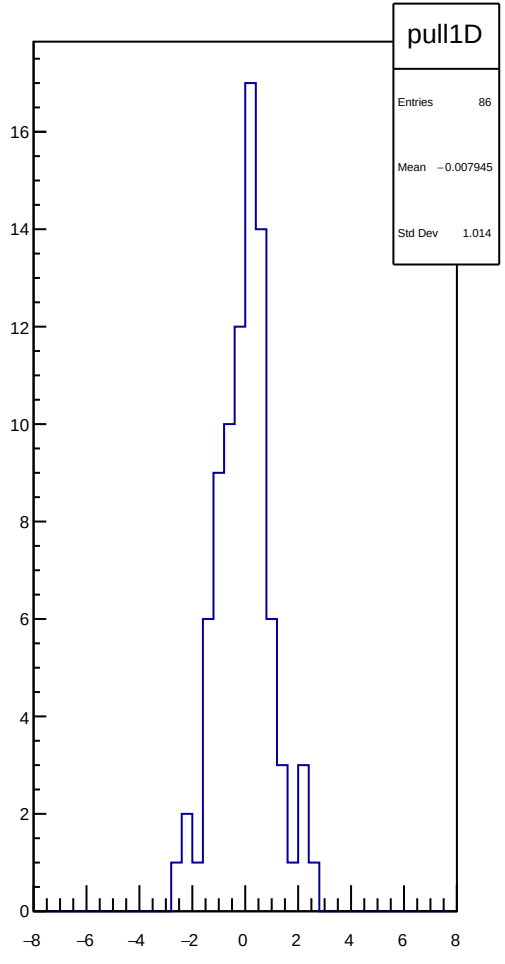

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.174e+04 / 85
p0 69.63 ± 0.05518
100
90
80
70
60
50
40
30

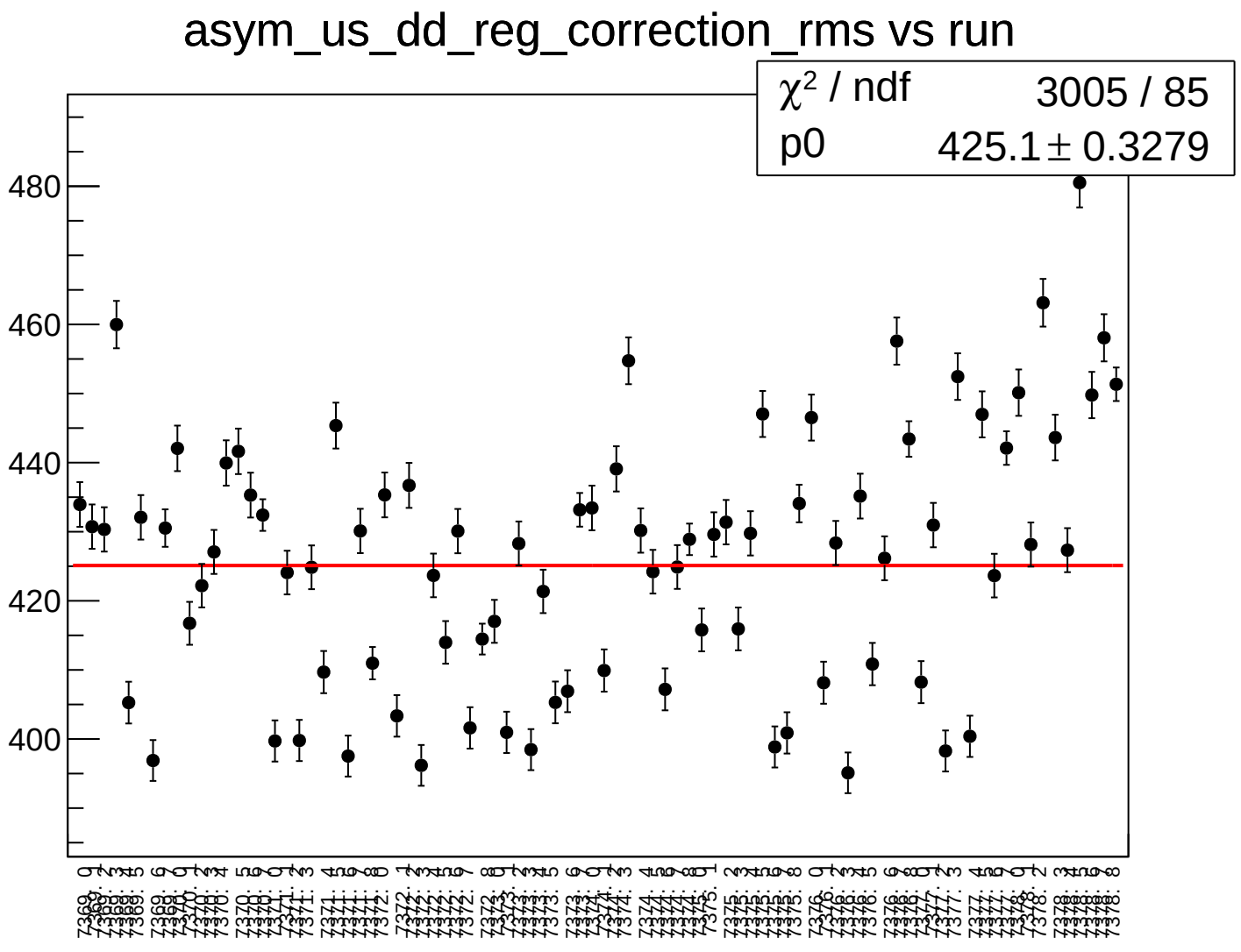

reg_asym_us_dd_mean vs run
χ² / ndf 93.1 / 85
p0 −603.2 ± 844
pull
Entries 86
Mean 532
Std Dev 0

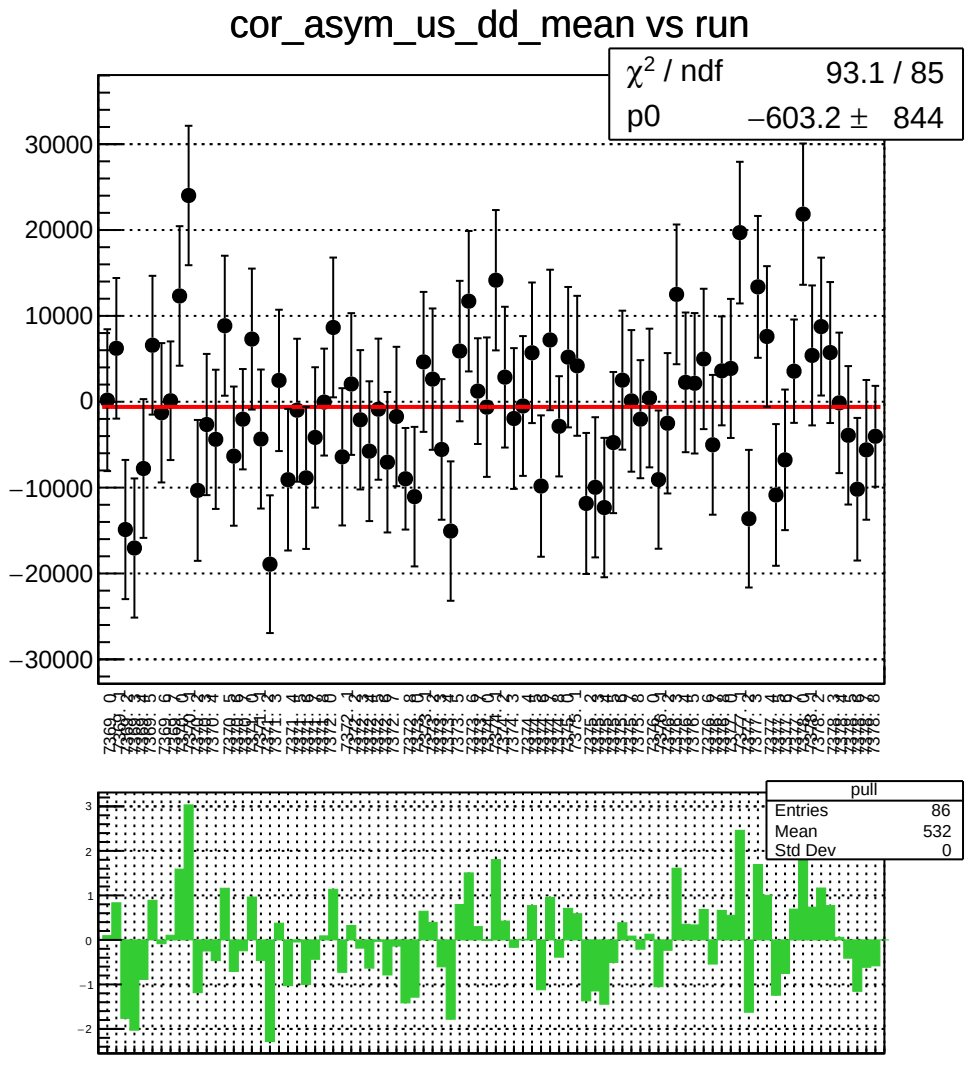

pull1D
Entries 86
Mean 0.006955
Std Dev 1.04

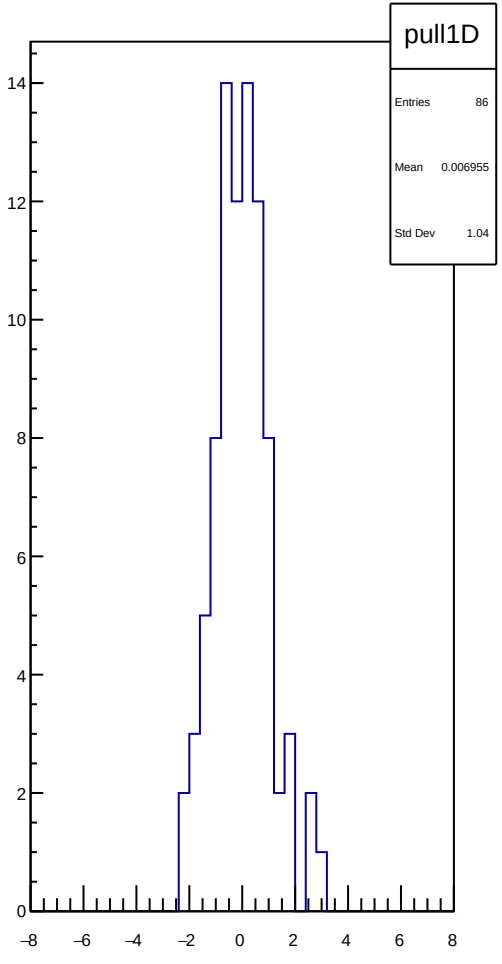

reg_asym_us_dd_rms vs run
χ² / ndf 95.72 / 85
p0 774.4 ± 0.5968
790
780
770
760
750

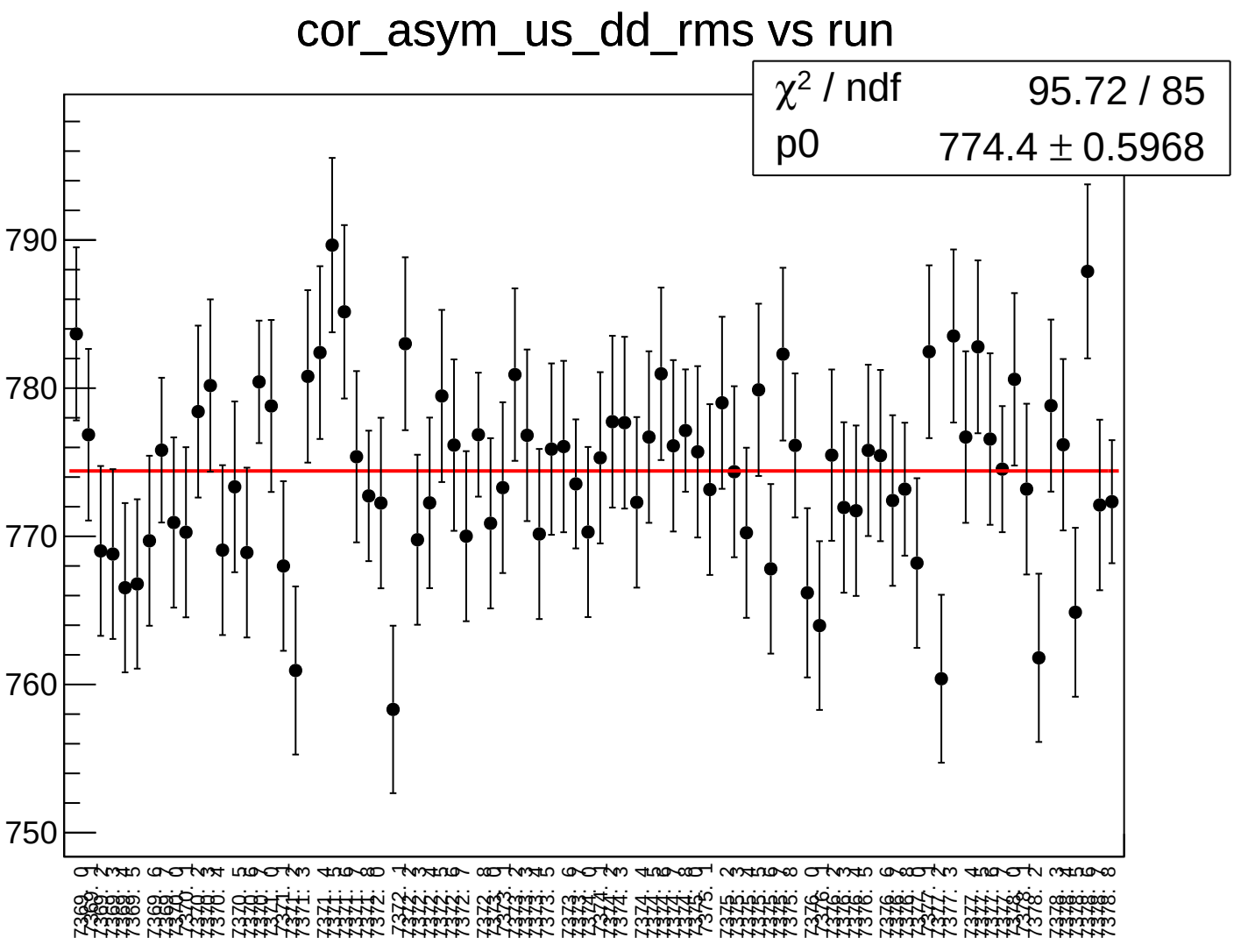

asym_us_dd_reg_correction_mean vs run
χ² / ndf 88.51 / 85
p0 272.1 ± 463.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 56.69
Std Dev 0
2
1
0
−1
−2

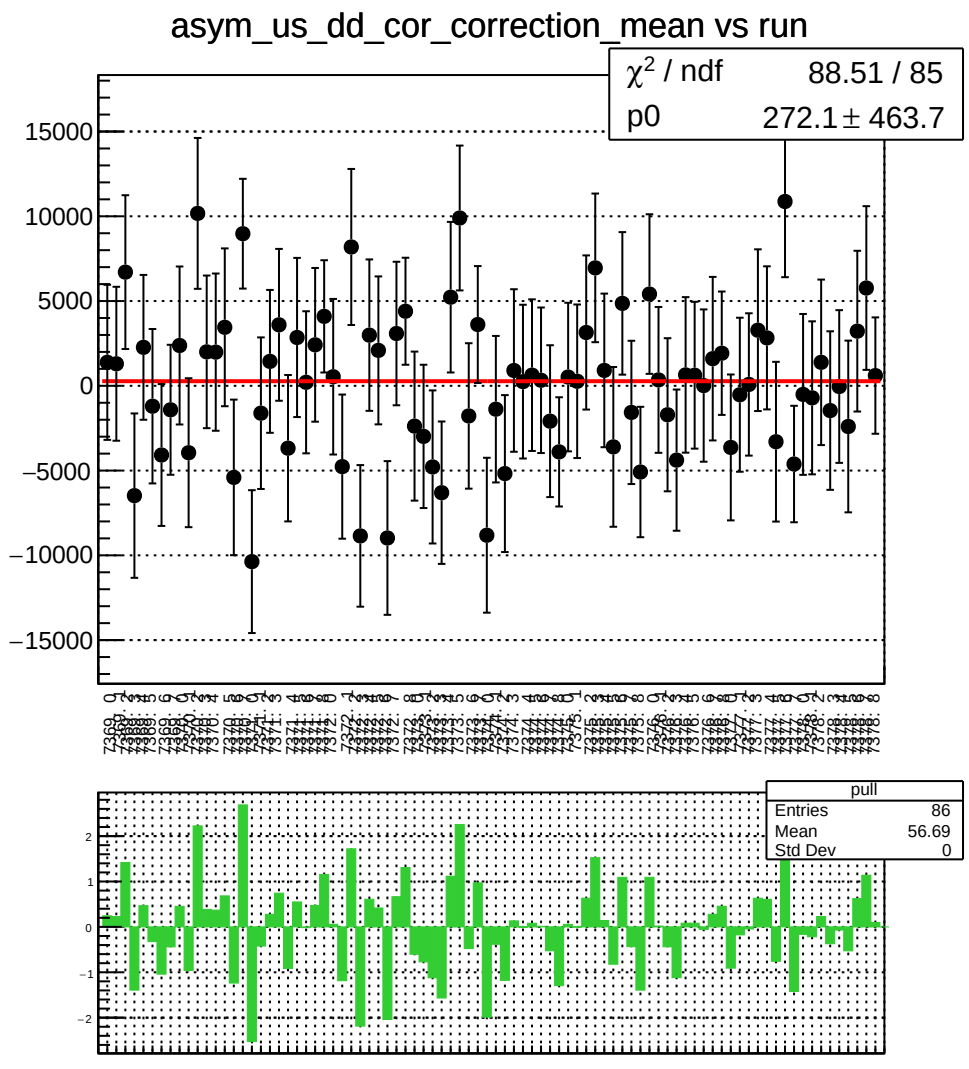

pull1D
Entries 86
Mean −0.007945
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

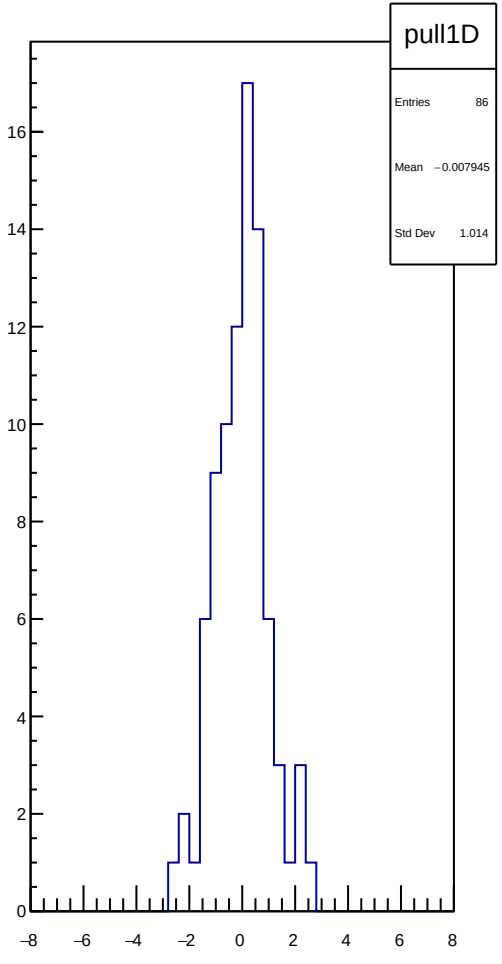

asym_us_dd_reg_correction_rms vs run
χ² / ndf 3005 / 85
p0 425.1 ± 0.3279
480
460
440
420
400

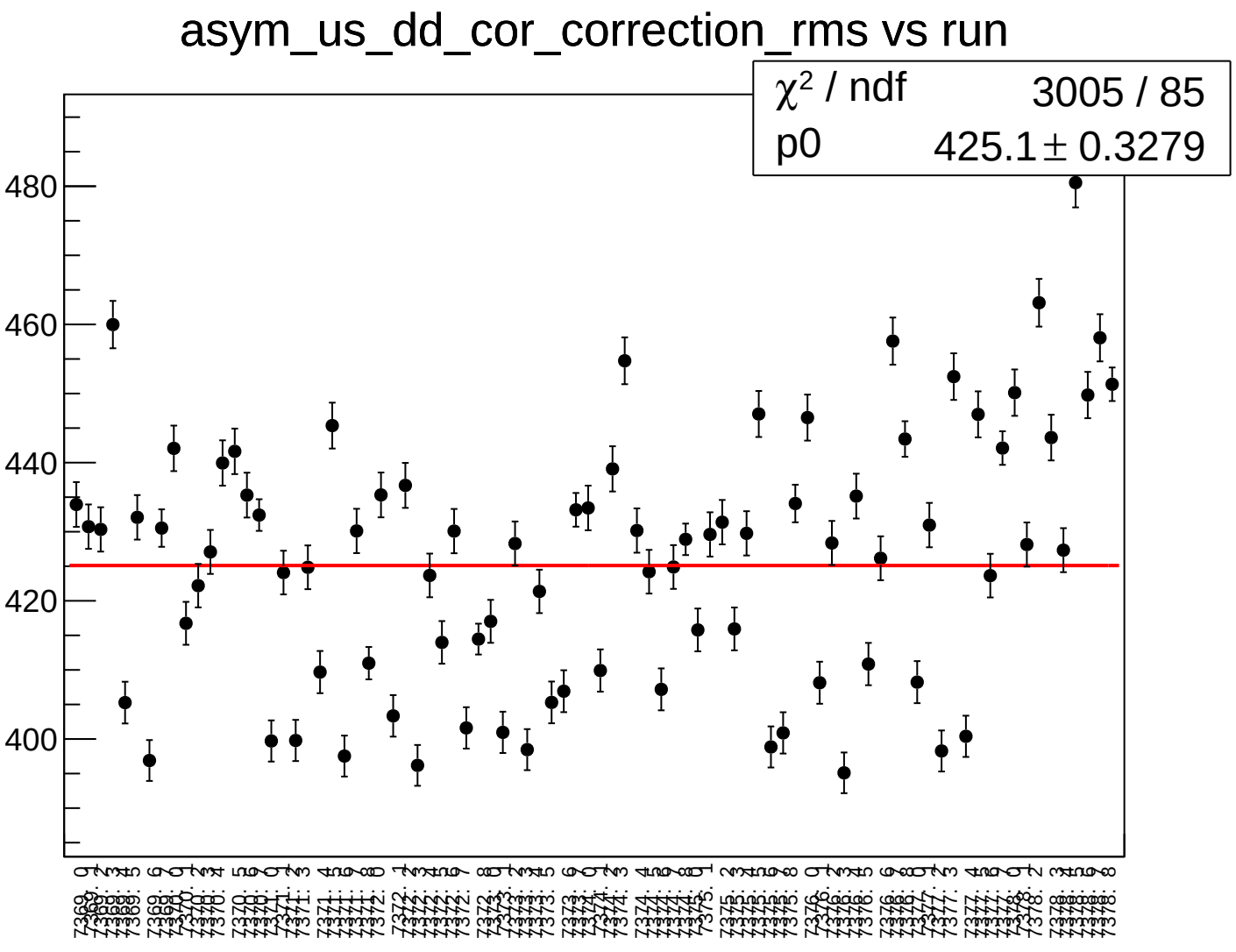

cor_asym_us_dd_mean vs run
χ² / ndf 93.1 / 85
p0 −603.2 ± 844
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 532
Std Dev 0
3
2
1
0
−1
−2

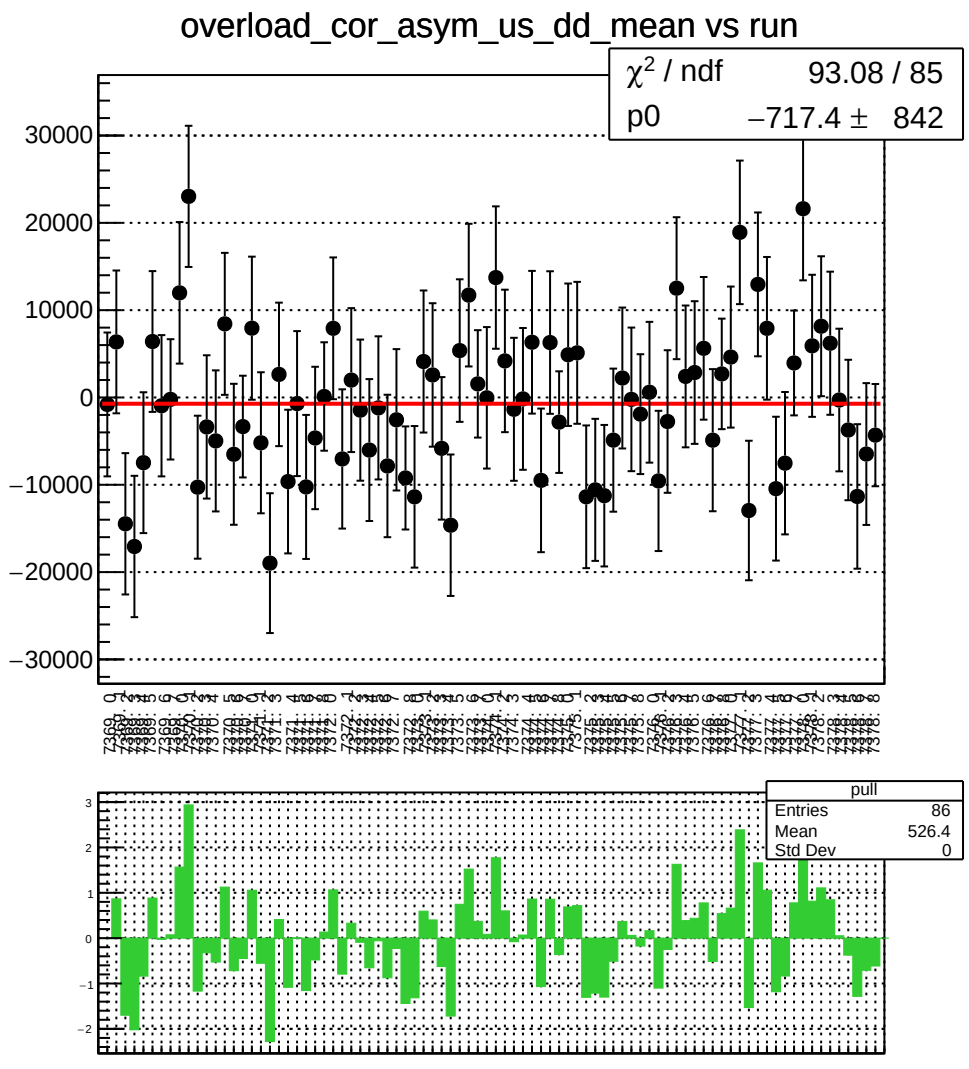

pull1D
Entries 86
Mean 0.006955
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

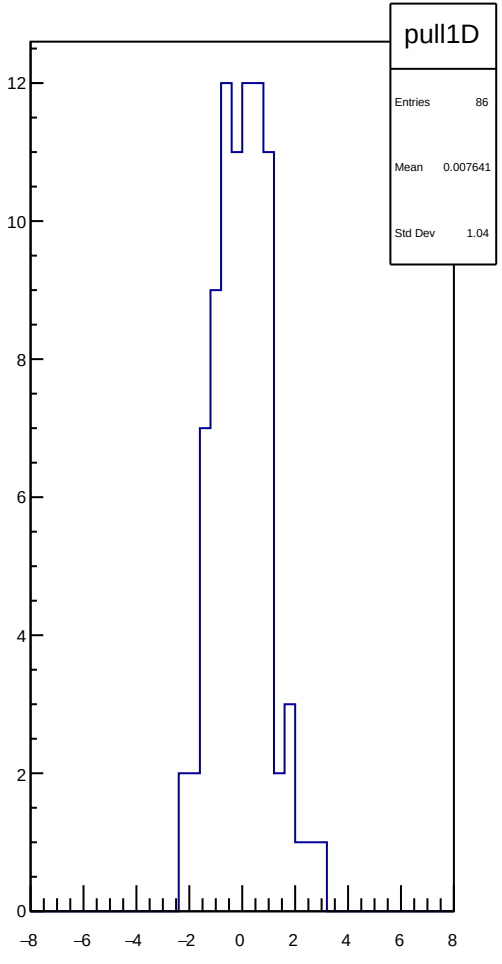

cor_asym_us_dd_rms vs run
χ² / ndf 95.72 / 85
p0 774.4 ± 0.5968
790
780
770
760
750

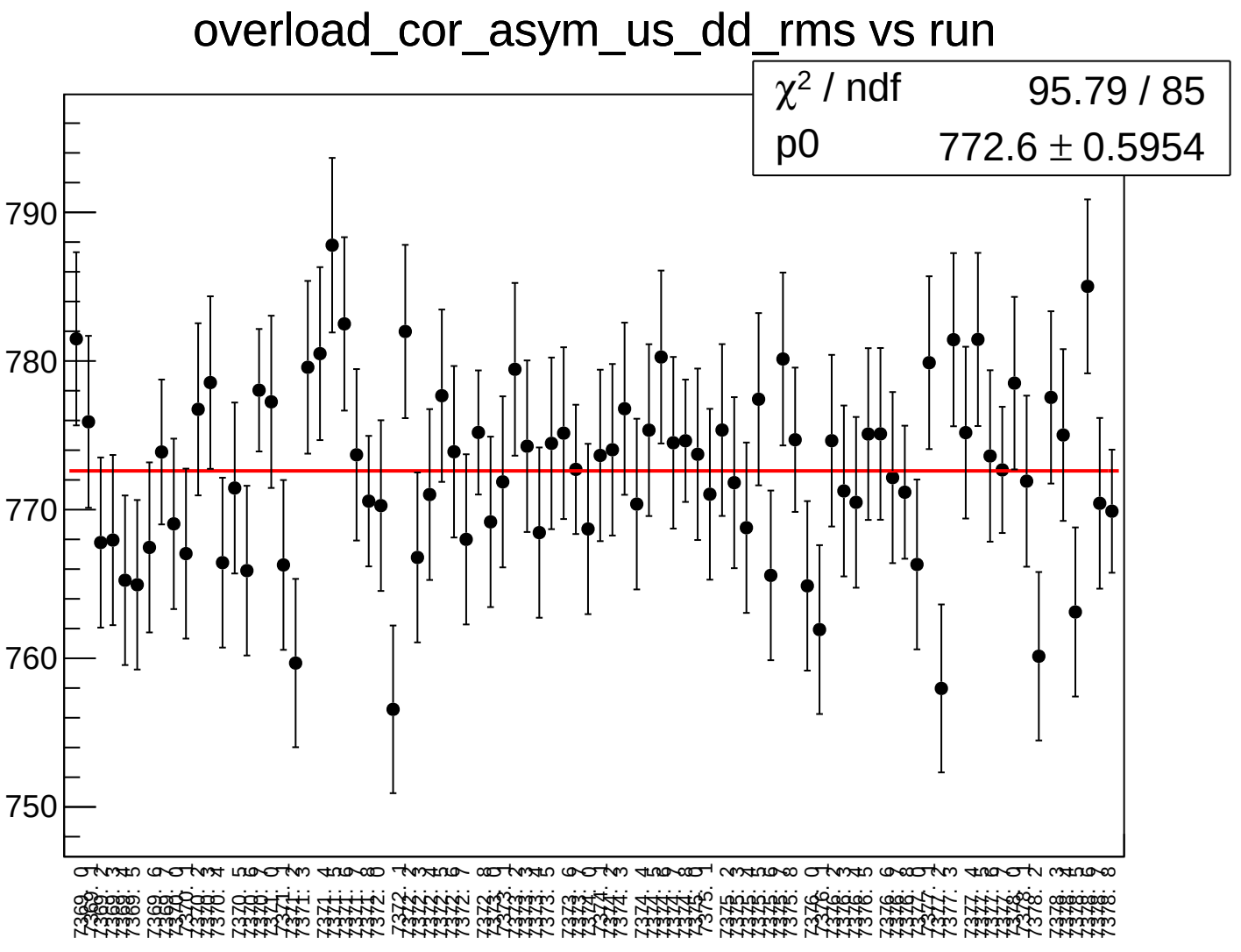

asym_us_dd_cor_correction_mean vs run
χ² / ndf 88.51 / 85
p0 272.1 ± 463.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 56.69
Std Dev 0
2
1
0
−1
−2

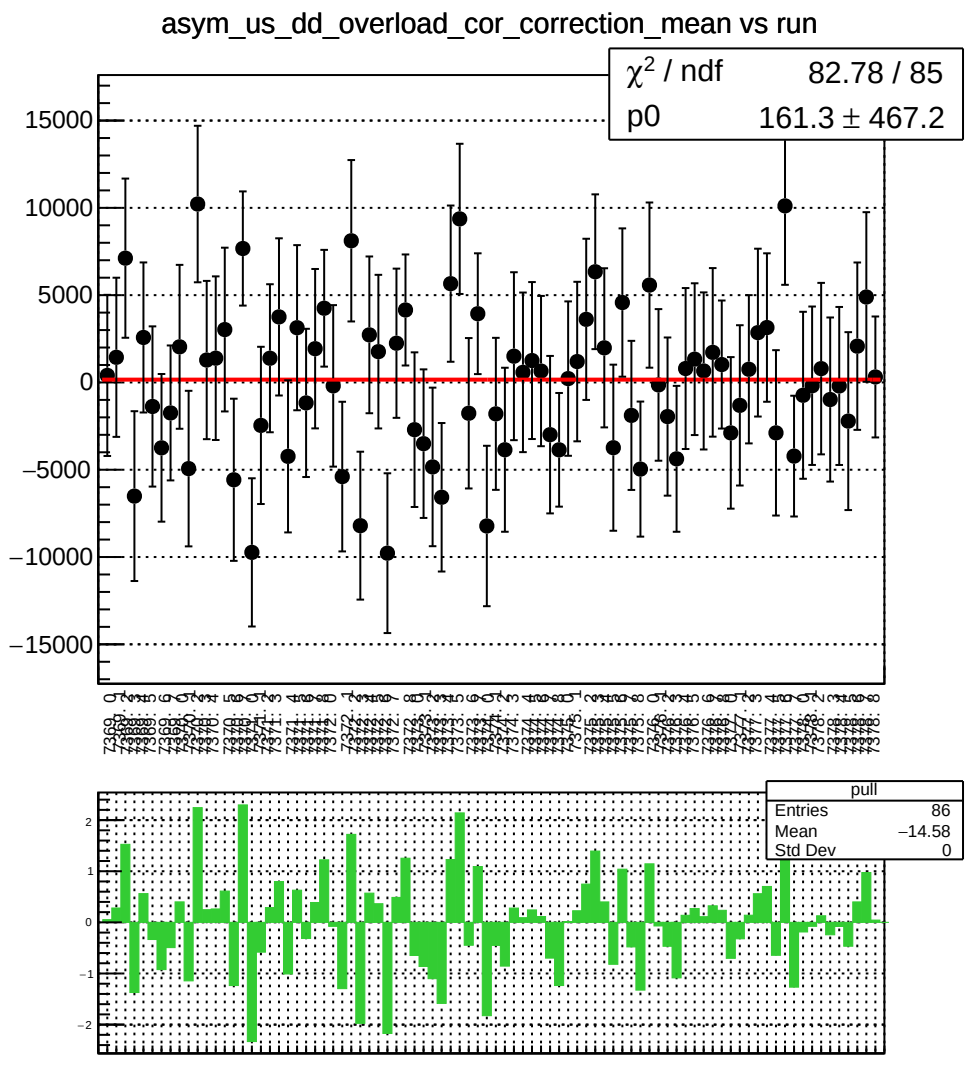

pull1D
Entries 86
Mean −0.007945
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

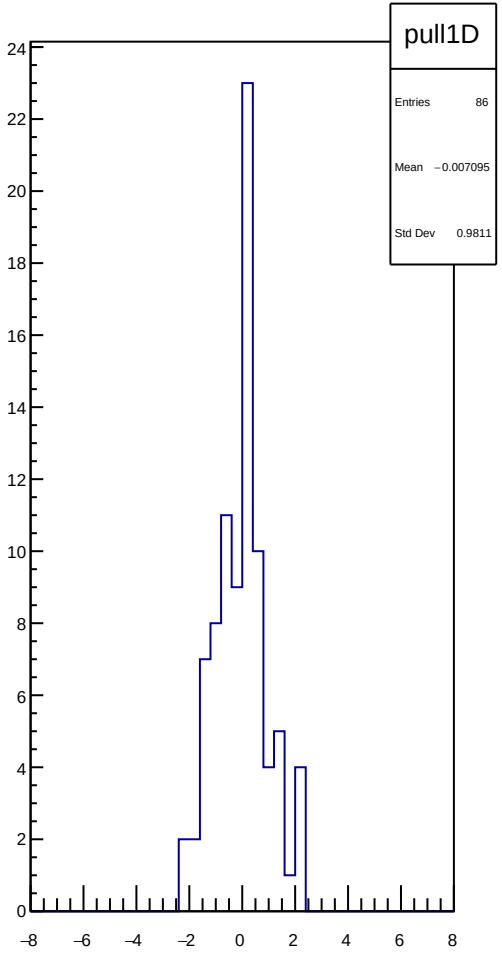

asym_us_dd_cor_correction_rms vs run
χ² / ndf 3005 / 85
p0 425.1 ± 0.3279
480
460
440
420
400

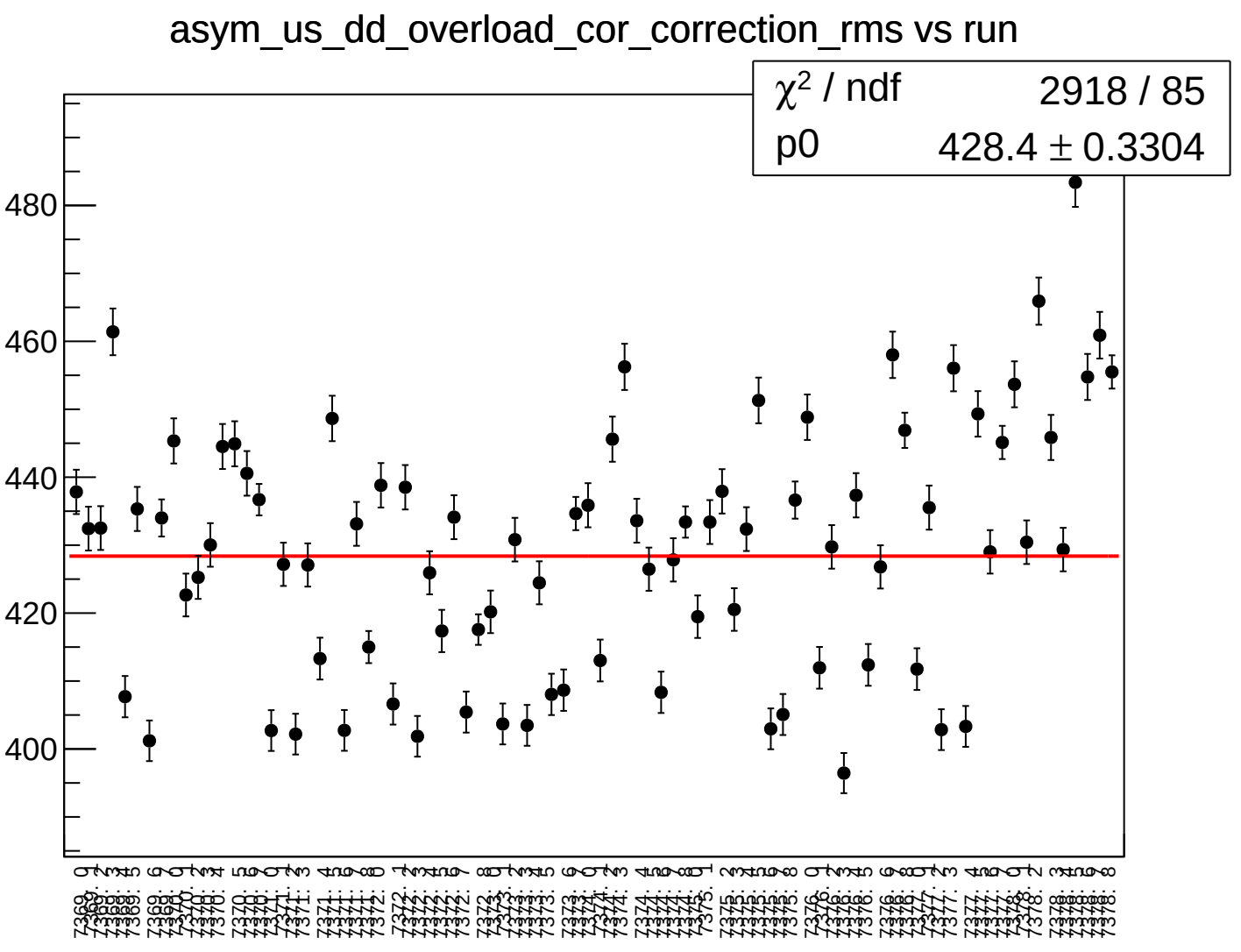

overload_cor_asym_us_dd_mean vs run
χ² / ndf 93.08 / 85
p0 −717.4 ± 842
pull
Entries 86
Mean 526.4
Std Dev 0

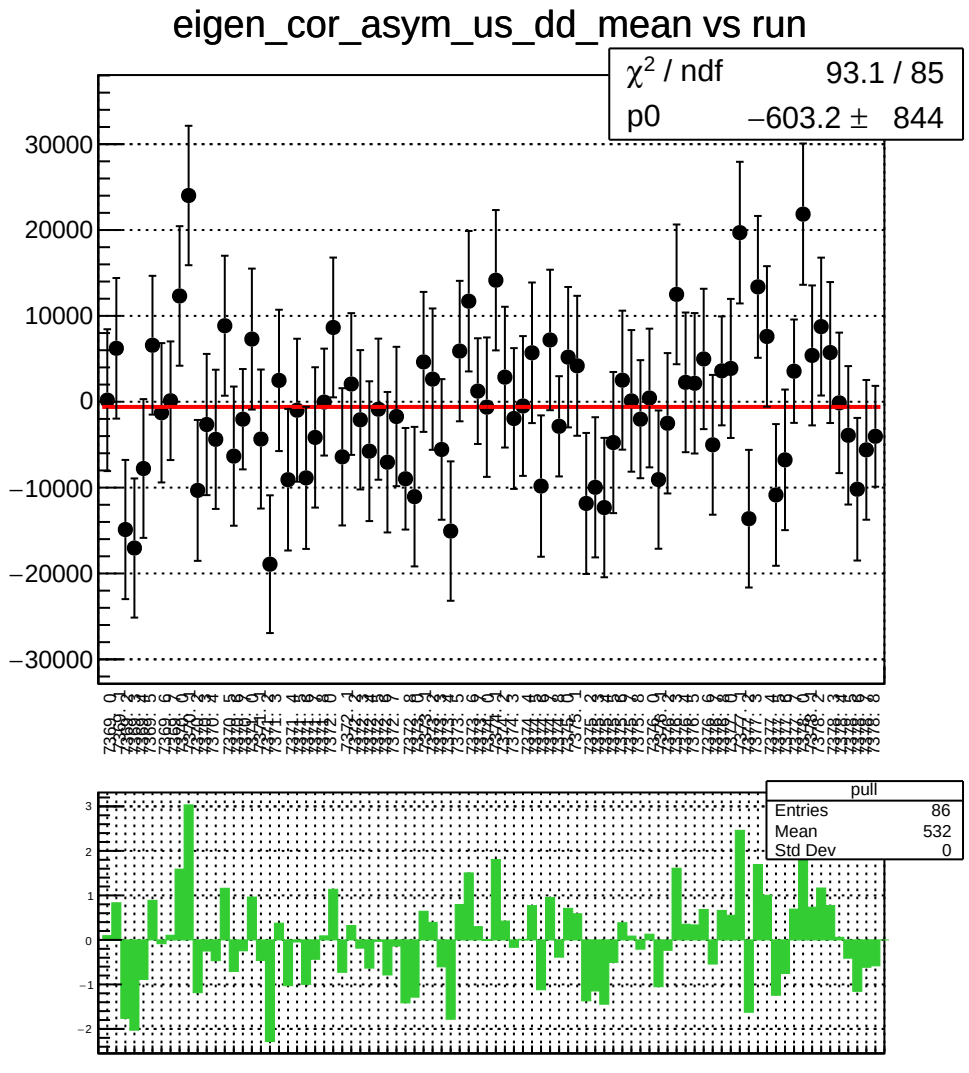

pull1D
Entries 86
Mean 0.007641
Std Dev 1.04

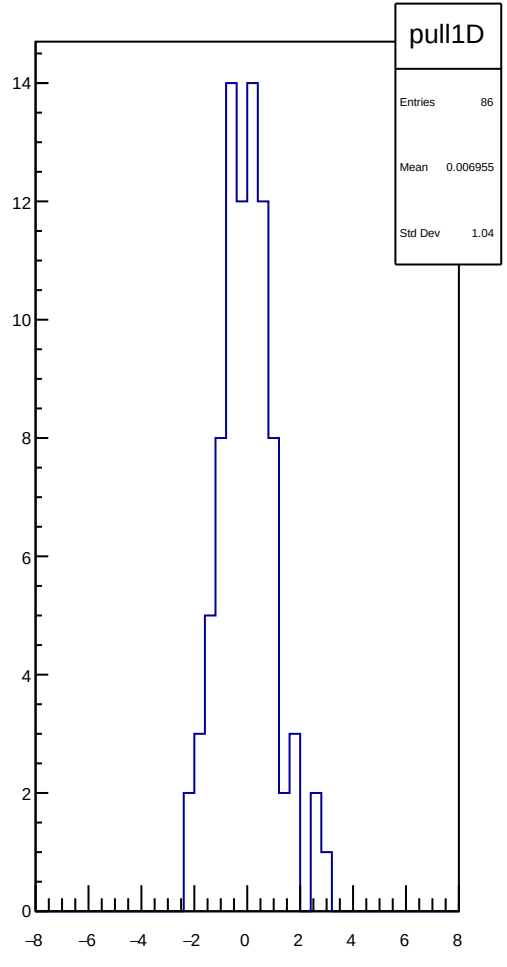

overload_cor_asym_us_dd_rms vs run
χ² / ndf 95.79 / 85
p0 772.6 ± 0.5954
790
780
770
760
750

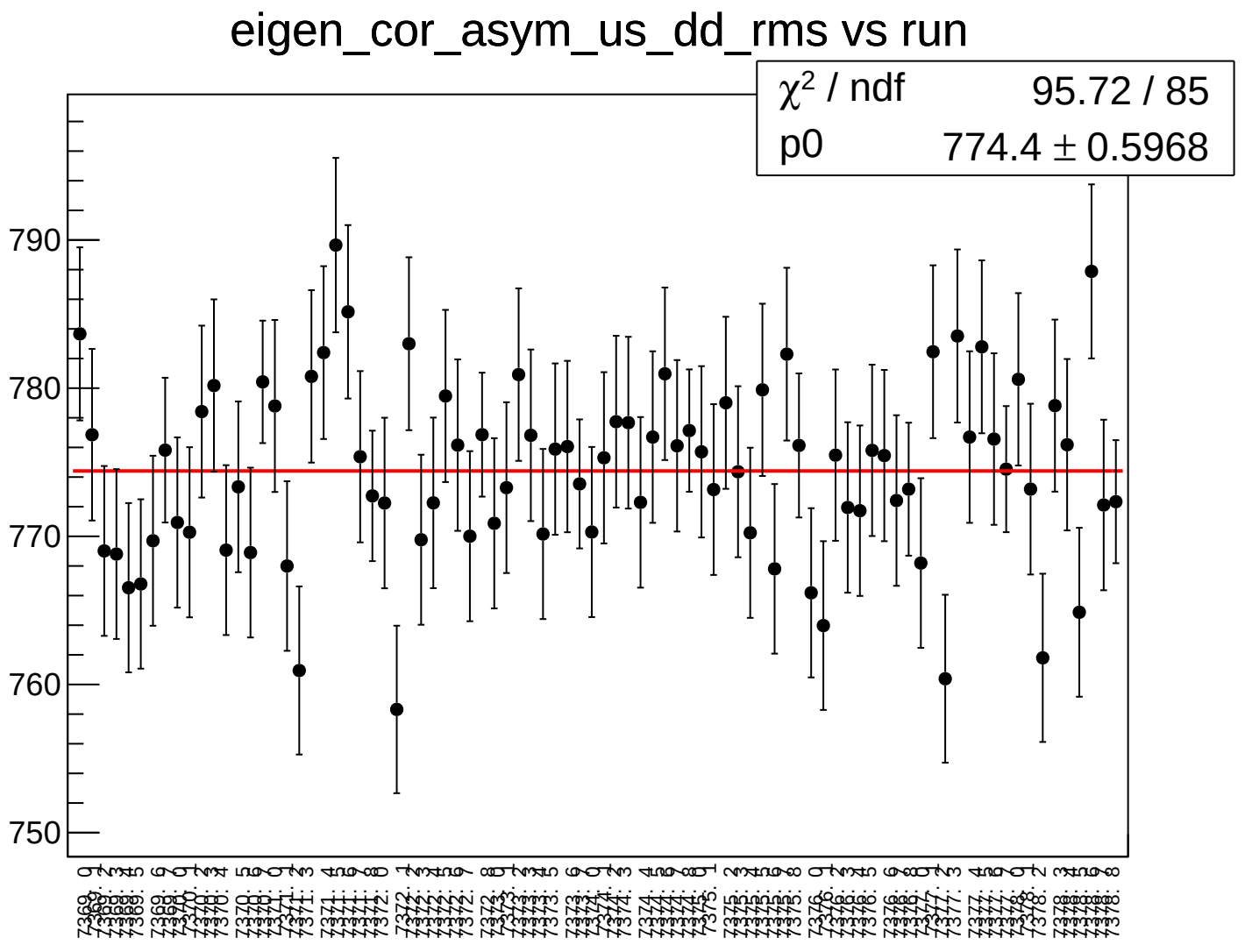

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 82.78 / 85
p0 161.3 ± 467.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −14.58
Std Dev 0
2
1
0
−1
−2

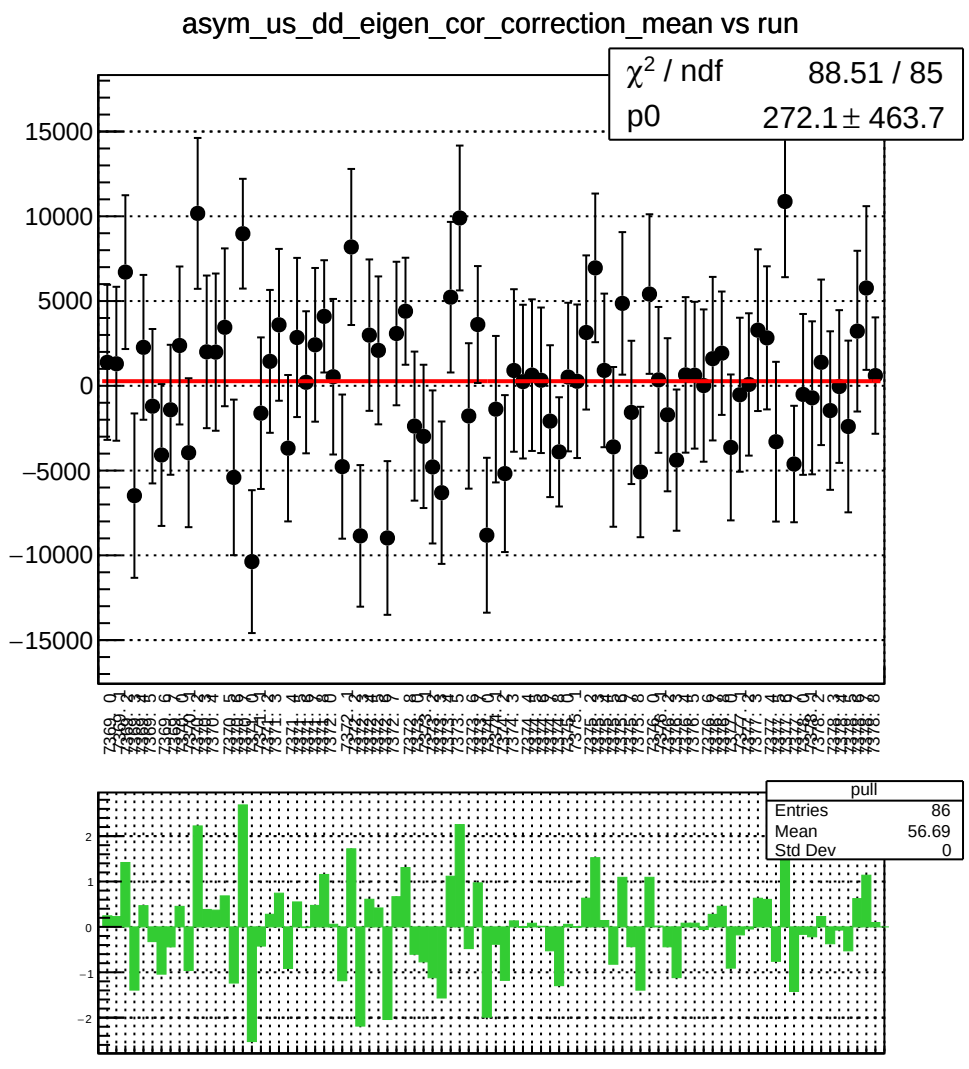

pull1D
Entries 86
Mean −0.007095
Std Dev 0.9811
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

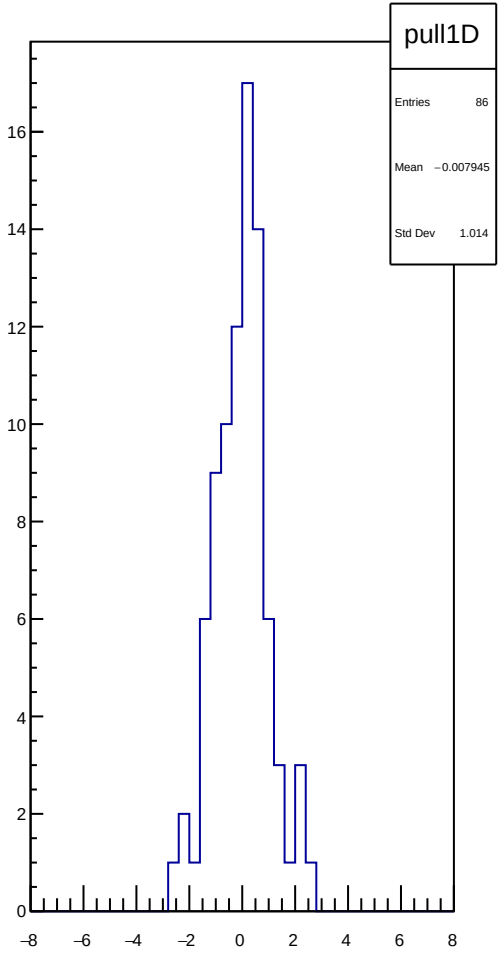

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2918 / 85
p0 428.4 ± 0.3304
480
460
440
420
400

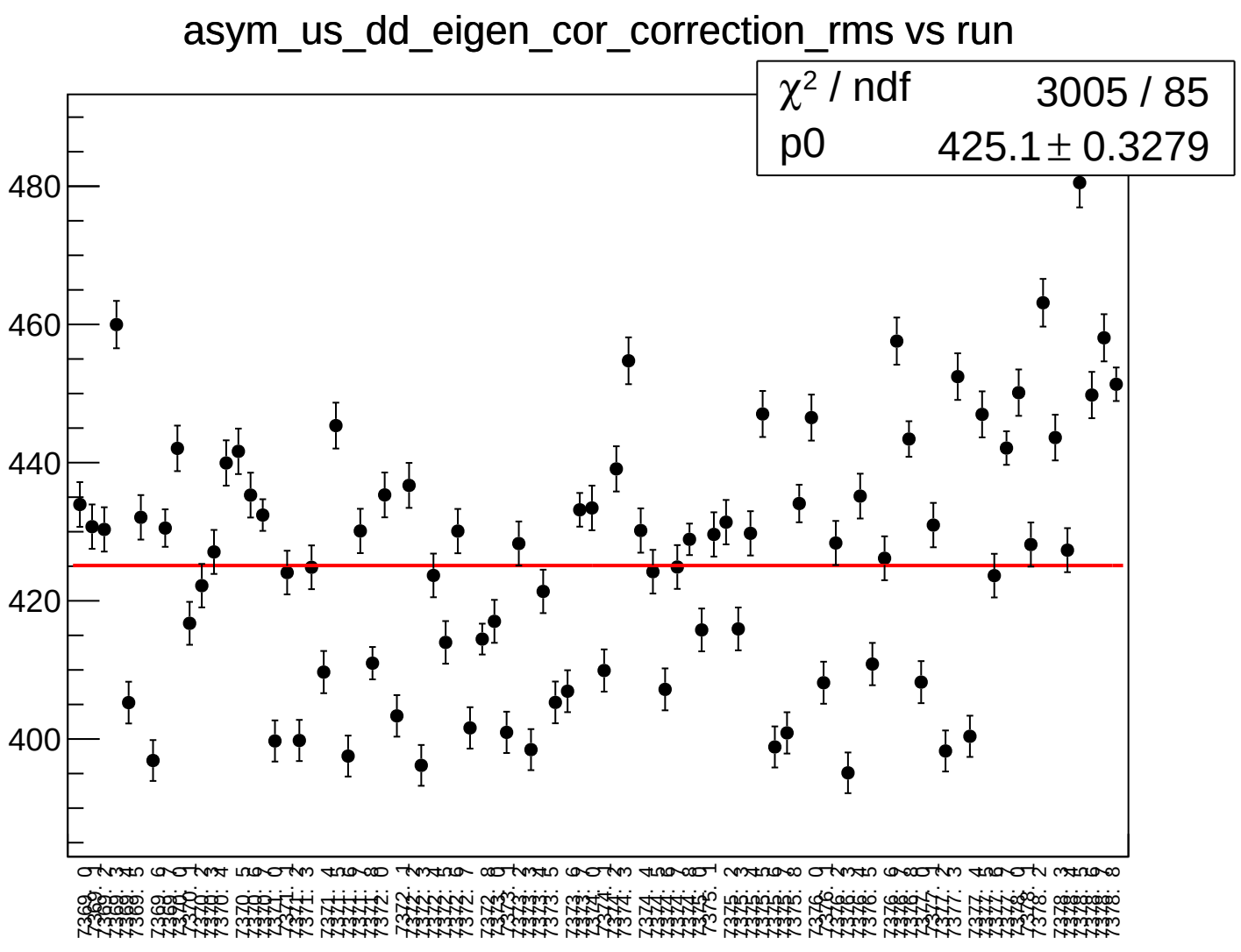

eigen_cor_asym_us_dd_mean vs run
χ^2 / ndf 93.1 / 85
p0 −603.2 ± 844
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 532
Std Dev 0
3
2
1
0
−1
−2

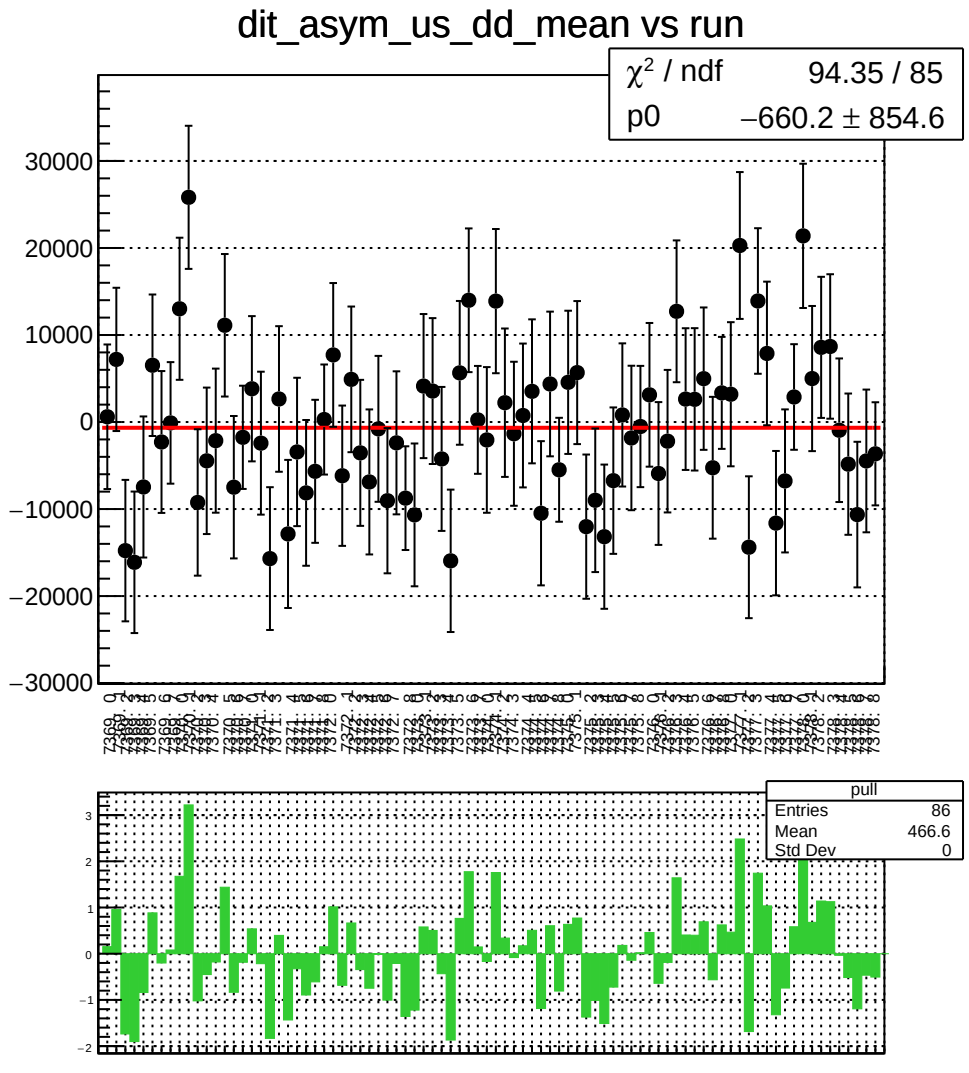

pull1D
Entries 86
Mean 0.006955
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

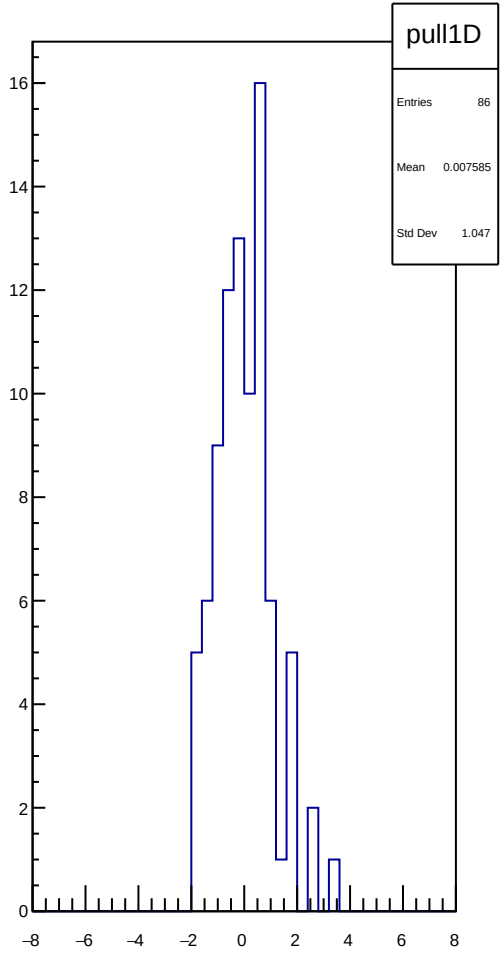

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 95.72 / 85
p0 774.4 ± 0.5968
790
780
770
760
750

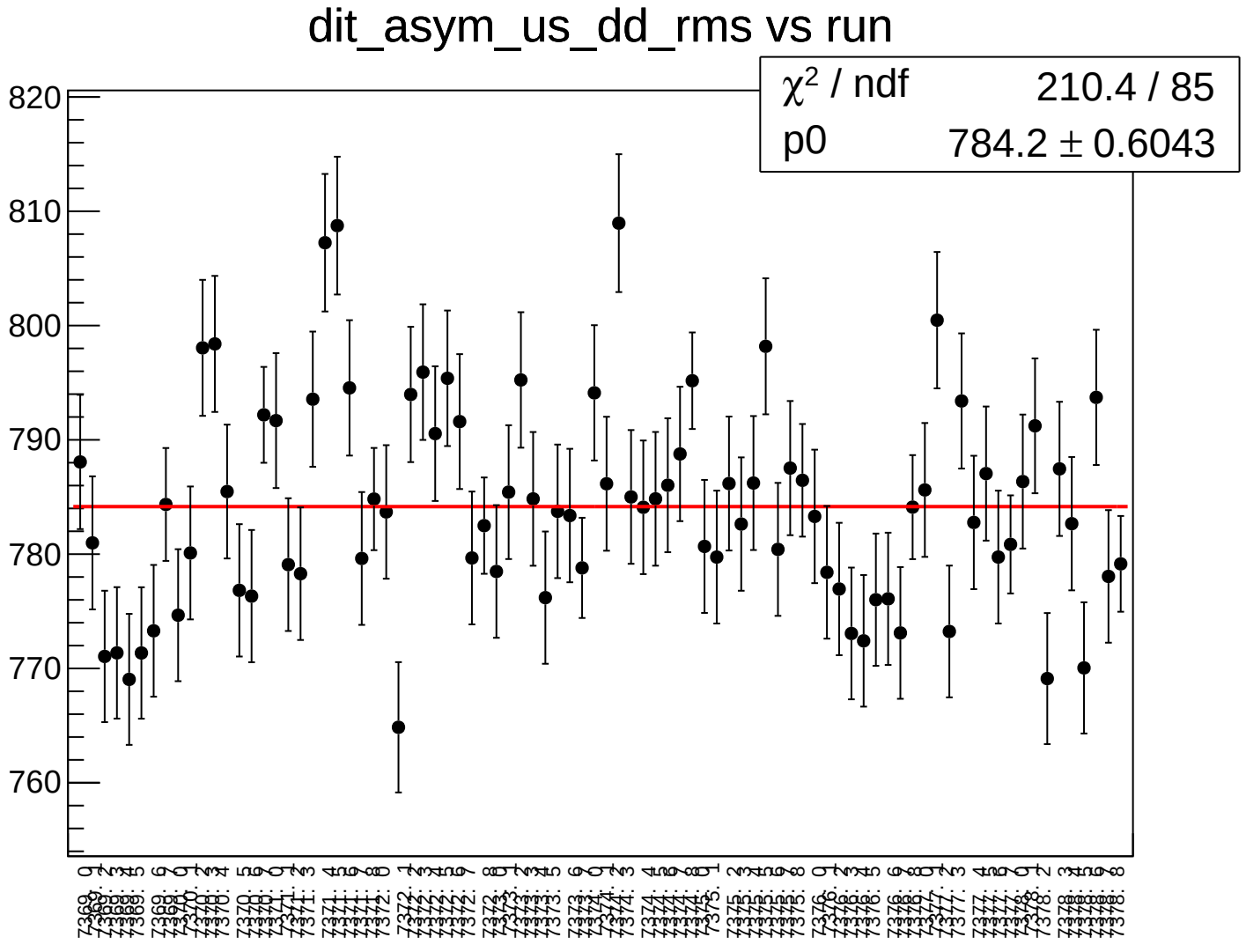

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.51 / 85
p0 272.1 ± 463.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 56.69
Std Dev 0
2
1
0
−1
−2

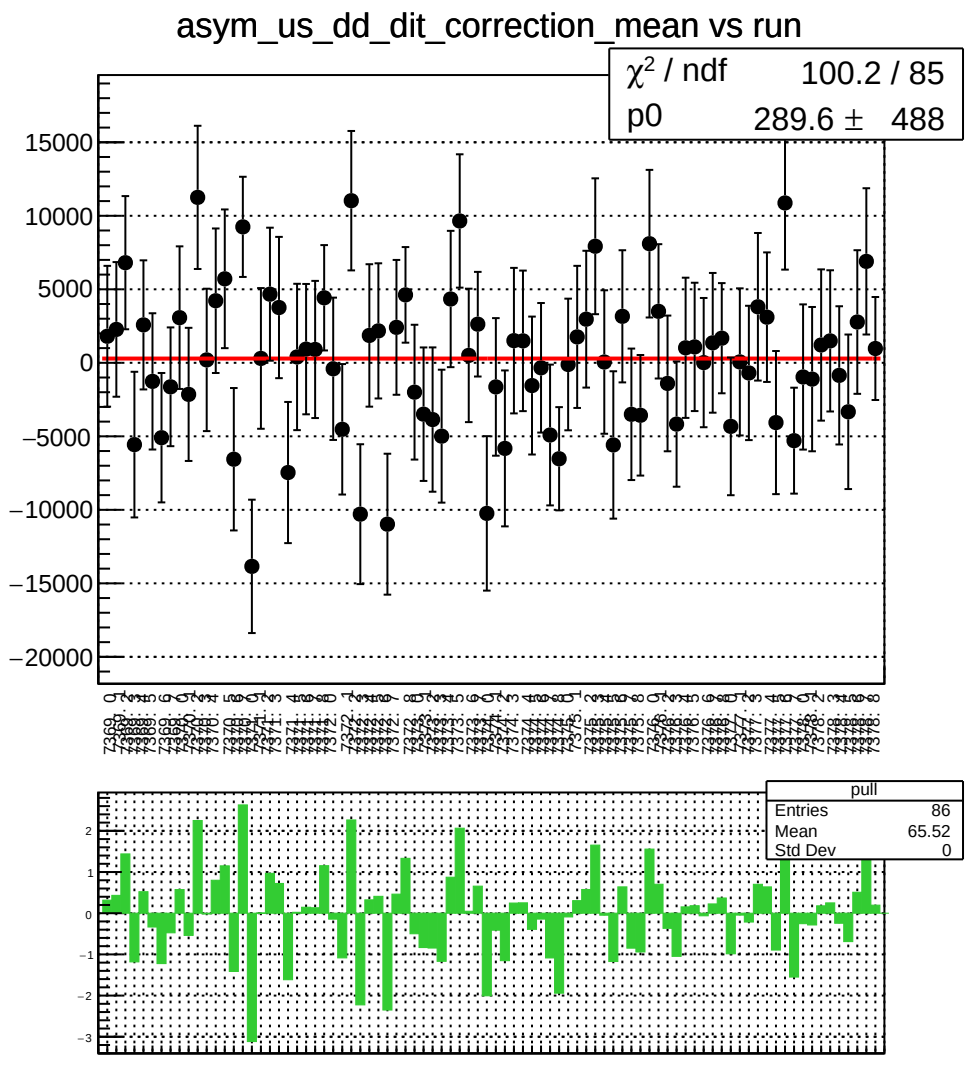

pull1D
Entries 86
Mean −0.007945
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

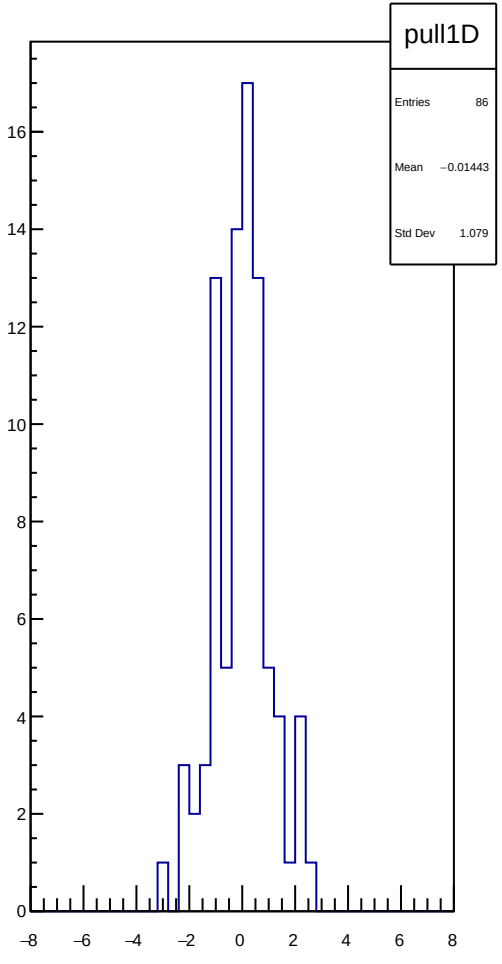

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 3005 / 85
p0 425.1 ± 0.3279
480
460
440
420
400

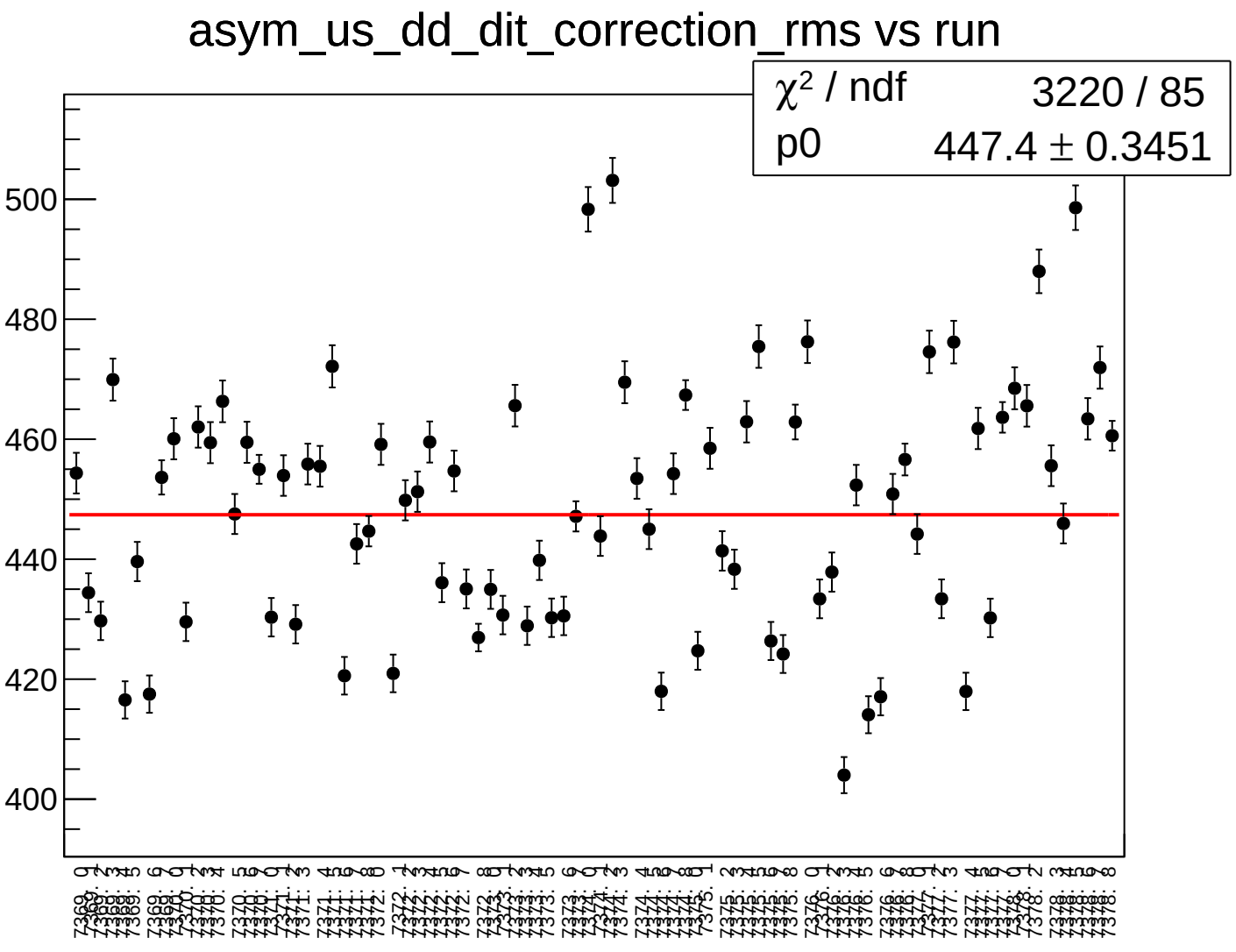

dit_asym_us_dd_mean vs run
χ² / ndf 94.35 / 85
p0 −660.2 ± 854.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 466.6
Std Dev 0
3
2
1
0
−1
−2

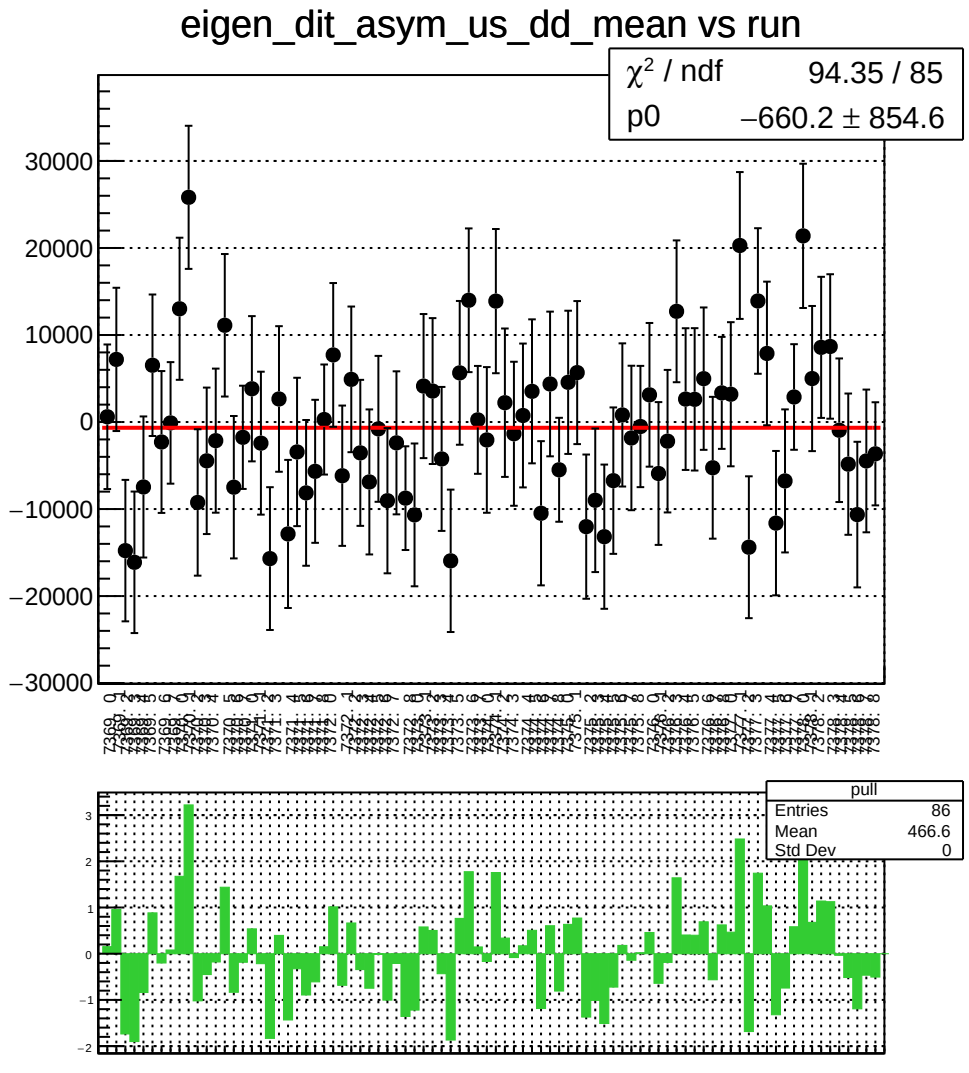

pull1D
Entries 86
Mean 0.007585
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

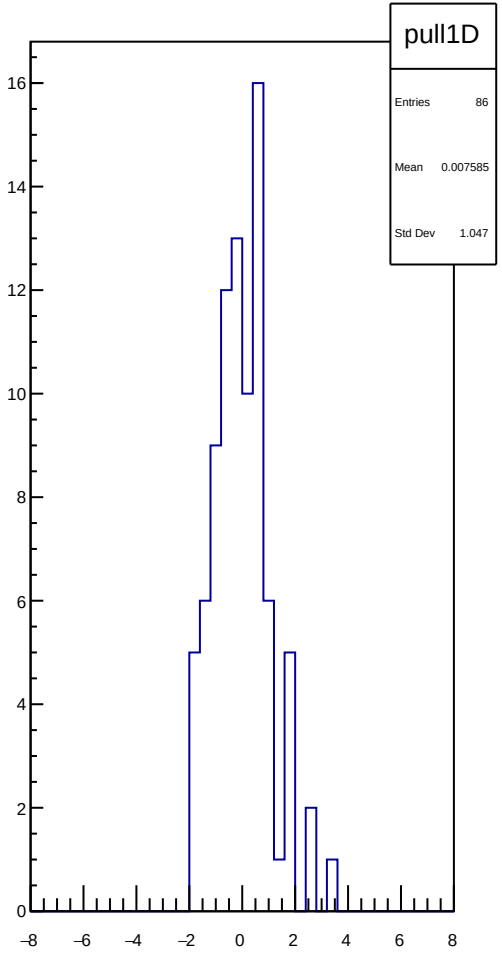

dit_asym_us_dd_rms vs run
χ² / ndf 210.4 / 85
p0 784.2 ± 0.6043
820
810
800
790
780
770
760

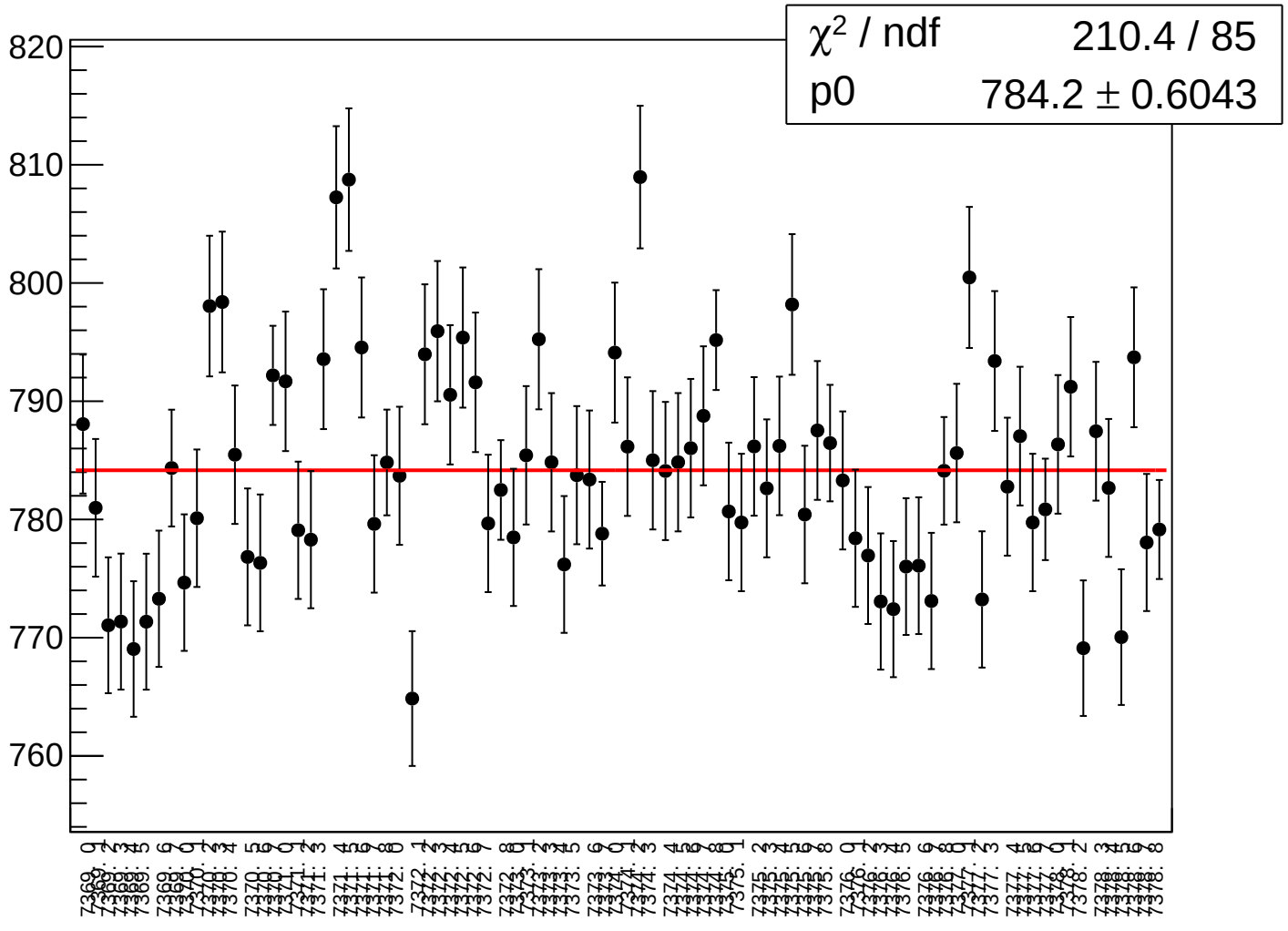

asym_us_dd_dit_correction_mean vs run
χ² / ndf 100.2 / 85
p0 289.6 ± 488
pull
Entries 86
Mean 65.52
Std Dev 0

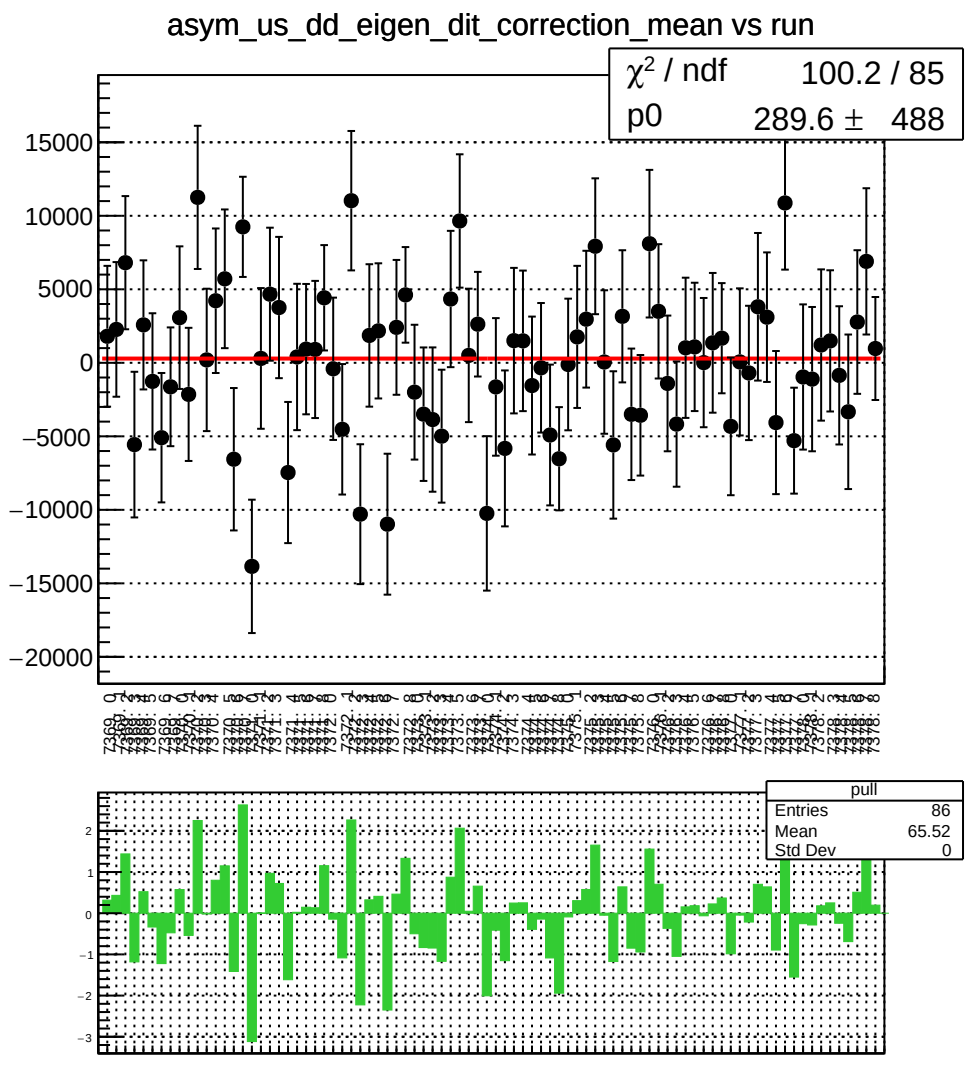

pull1D
Entries 86
Mean −0.01443
Std Dev 1.079

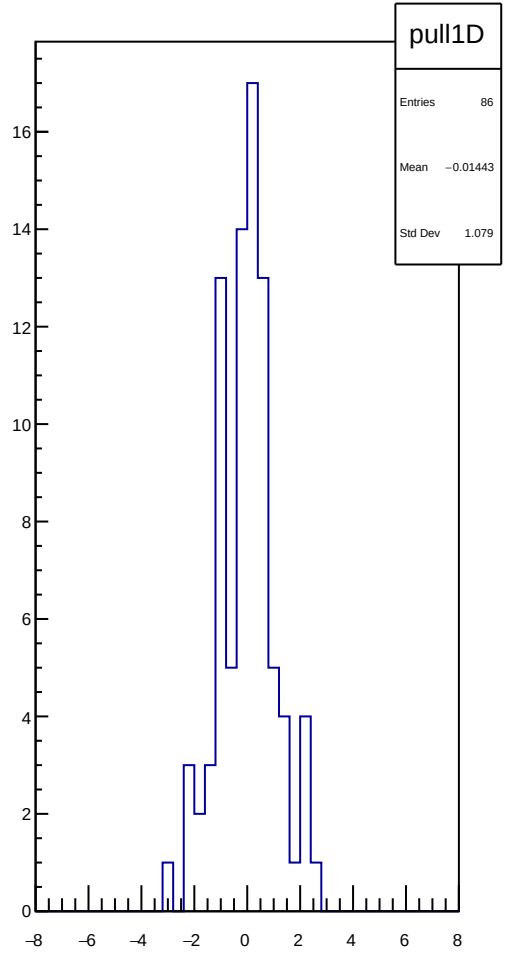

asym_us_dd_dit_correction_rms vs run
χ² / ndf 3220 / 85
p0 447.4 ± 0.3451
500
480
460
440
420
400

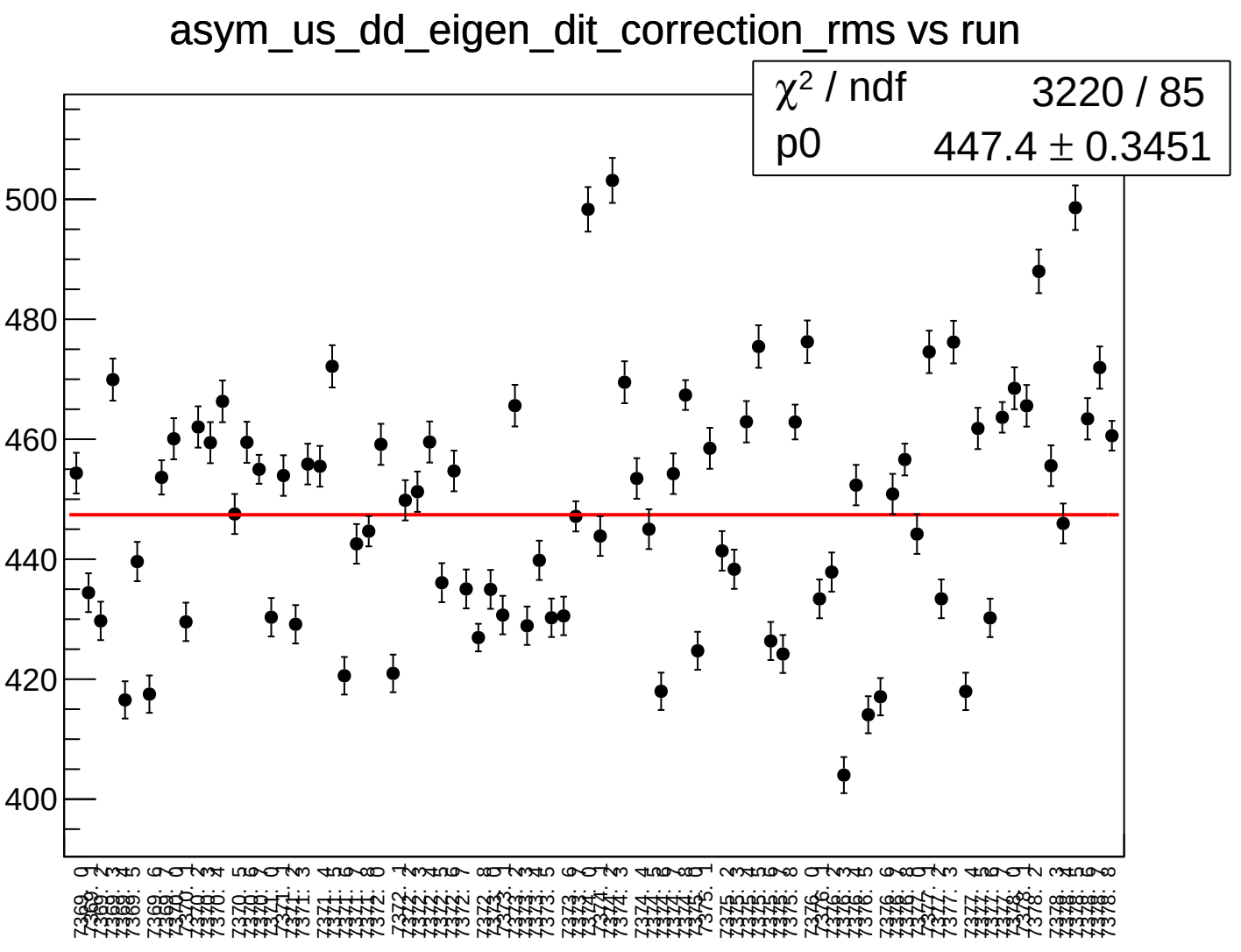

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 94.35 / 85
p0 −660.2 ± 854.6
pull
Entries 86
Mean 466.6
Std Dev 0

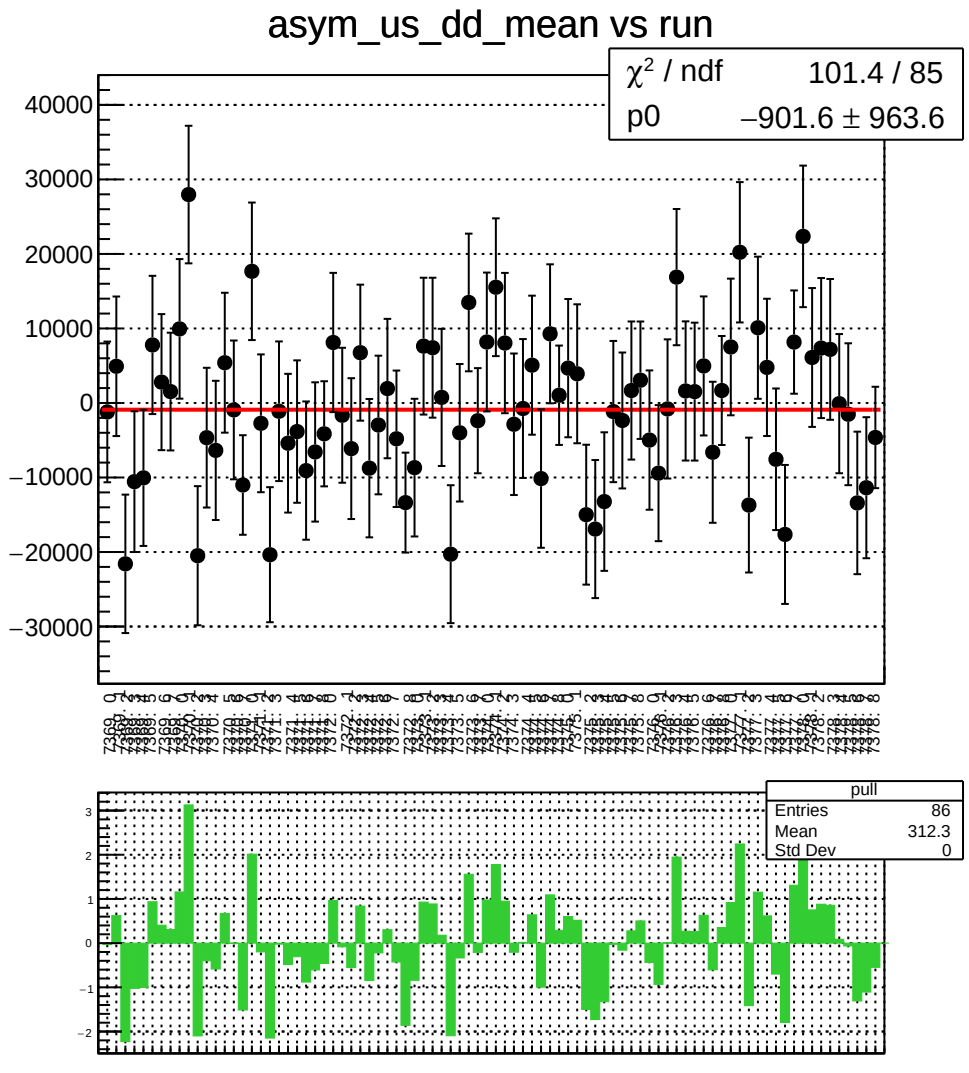

pull1D
Entries 86
Mean 0.007585
Std Dev 1.047

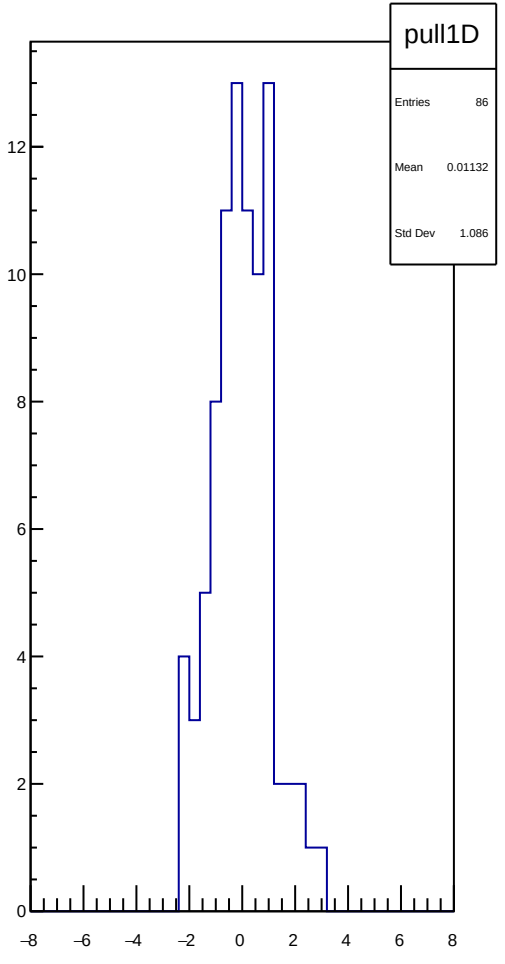

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 210.4 / 85
p0 784.2 ± 0.6043
820
810
800
790
780
770
760

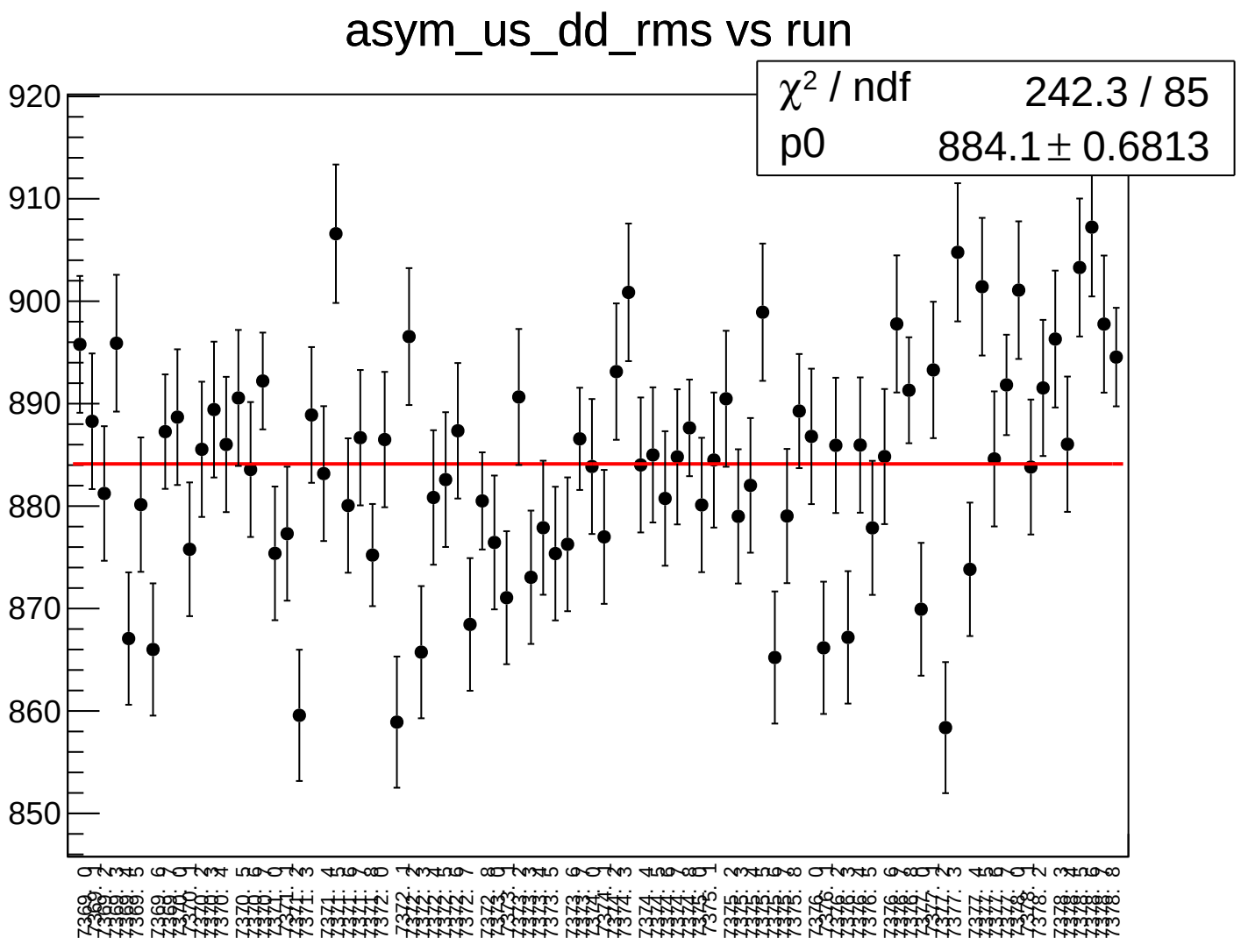

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.2 / 85
p0 289.6 ± 488
pull
Entries 86
Mean 65.52
Std Dev 0

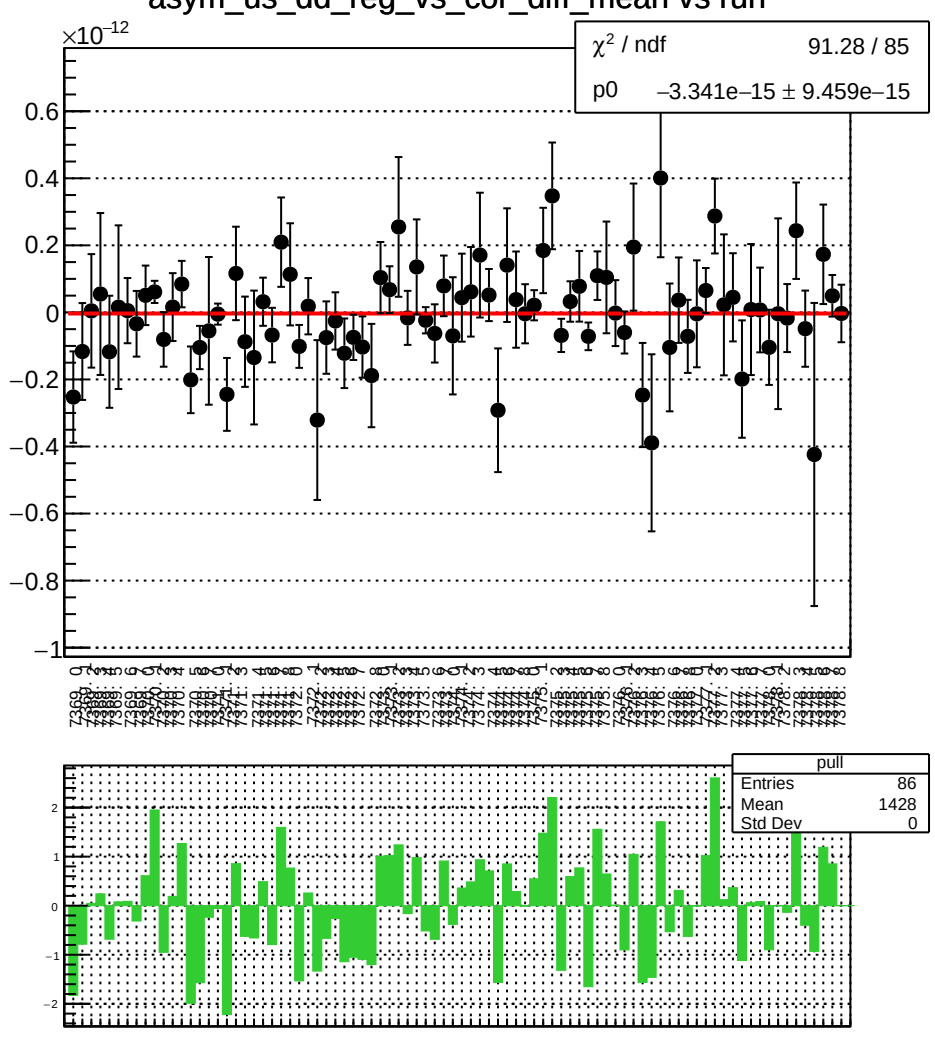

pull1D
Entries 86
Mean −0.01443
Std Dev 1.079

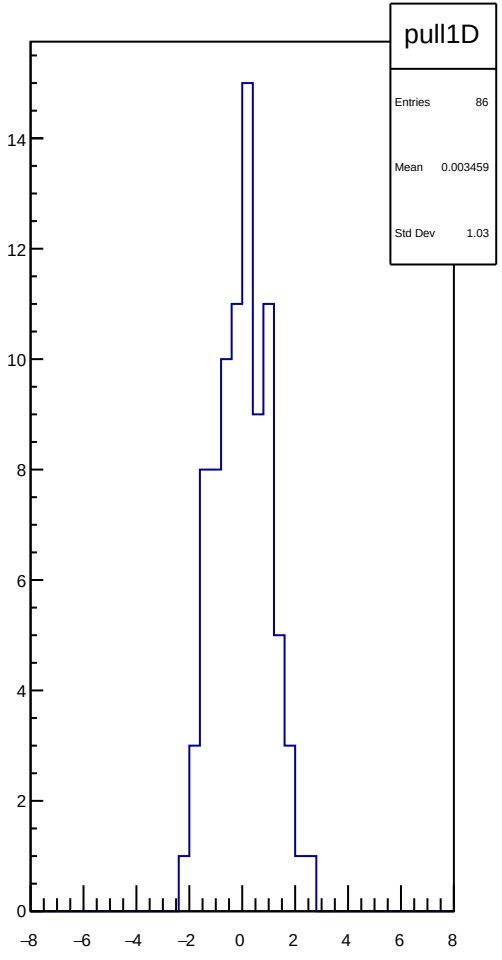

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 3220 / 85
p0 447.4 ± 0.3451
500
480
460
440
420
400

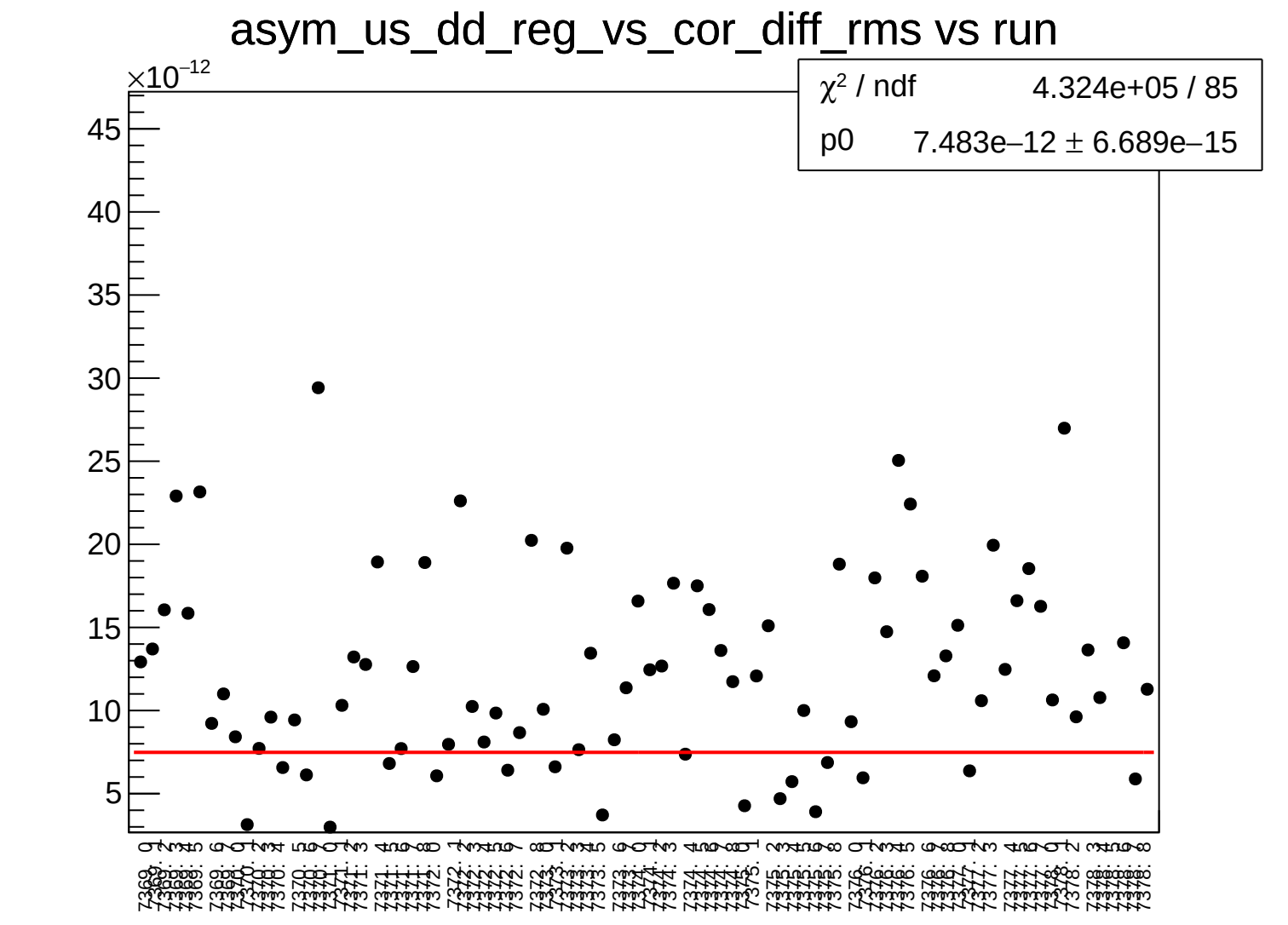

asym_us_dd_mean vs run
χ² / ndf 101.4 / 85
p0 −901.6 ± 963.6
pull
Entries 86
Mean 312.3
Std Dev 0

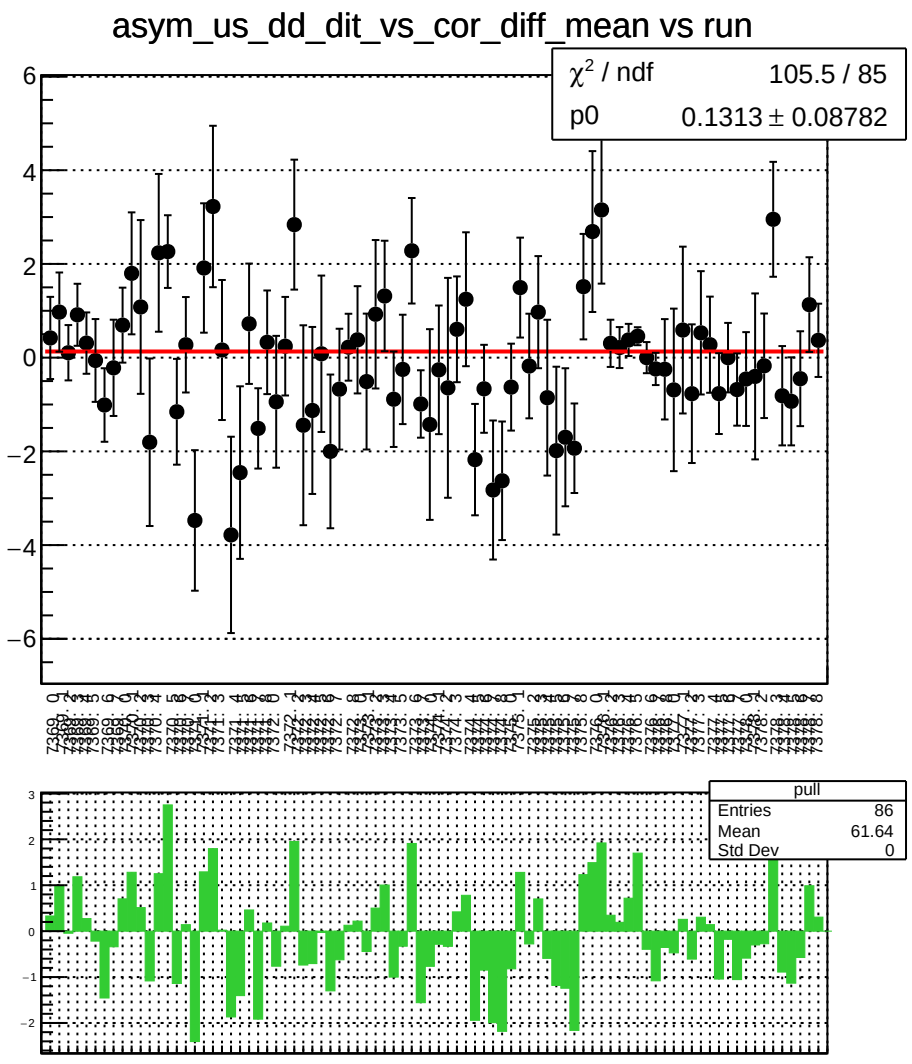

pull1D
Entries 86
Mean 0.01132
Std Dev 1.086

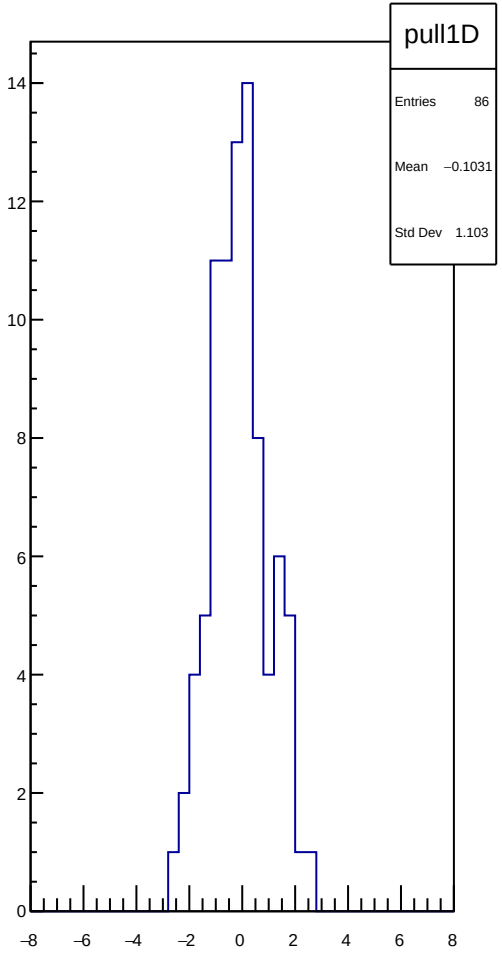

asym_us_dd_rms vs run
χ^2 / ndf 242.3 / 85
p0 884.1 ± 0.6813
920
910
900
890
880
870
860
850

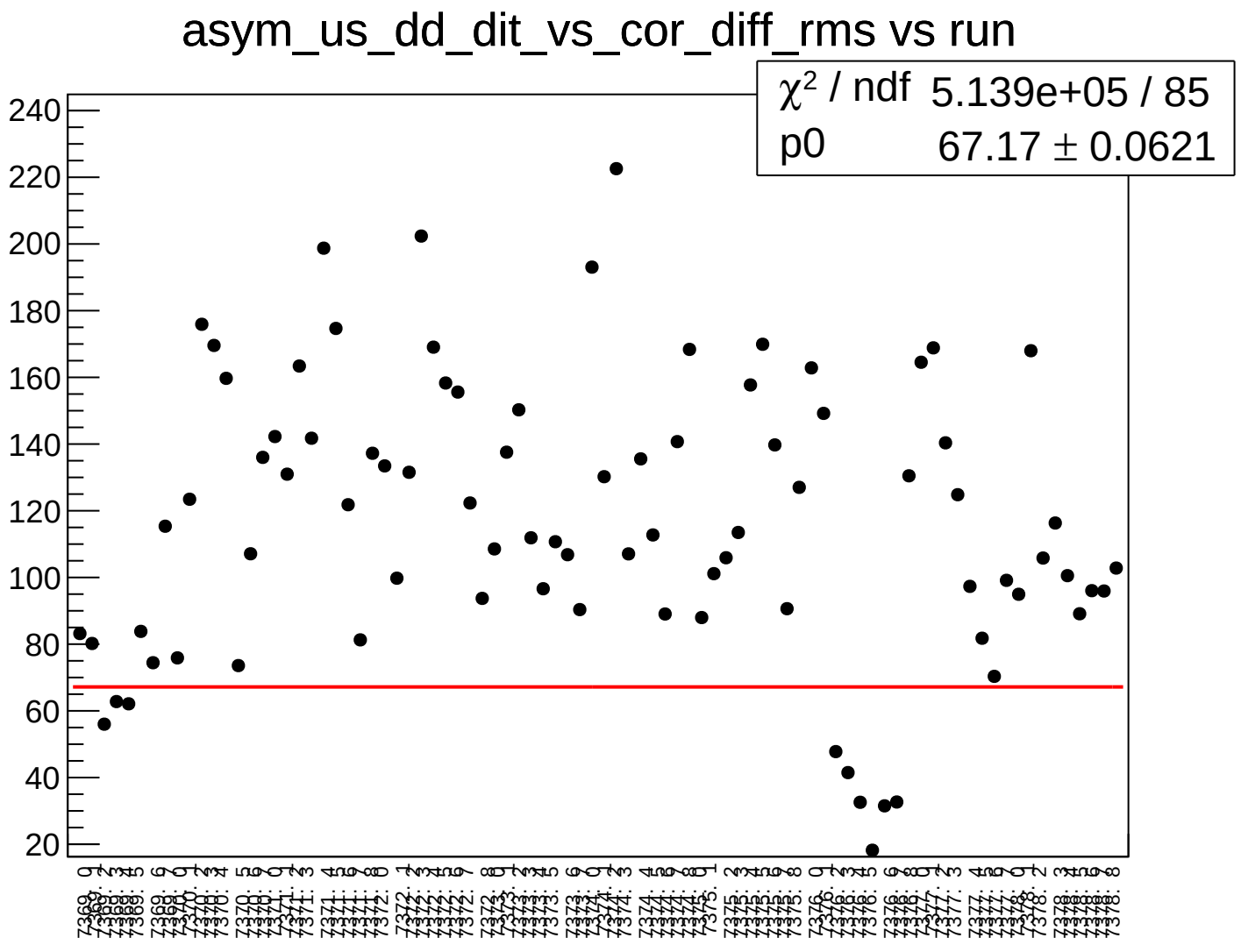

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.28 / 85
p0 −3.341e−15 ± 9.459e−15
pull
Entries 86
Mean 1428
Std Dev 0

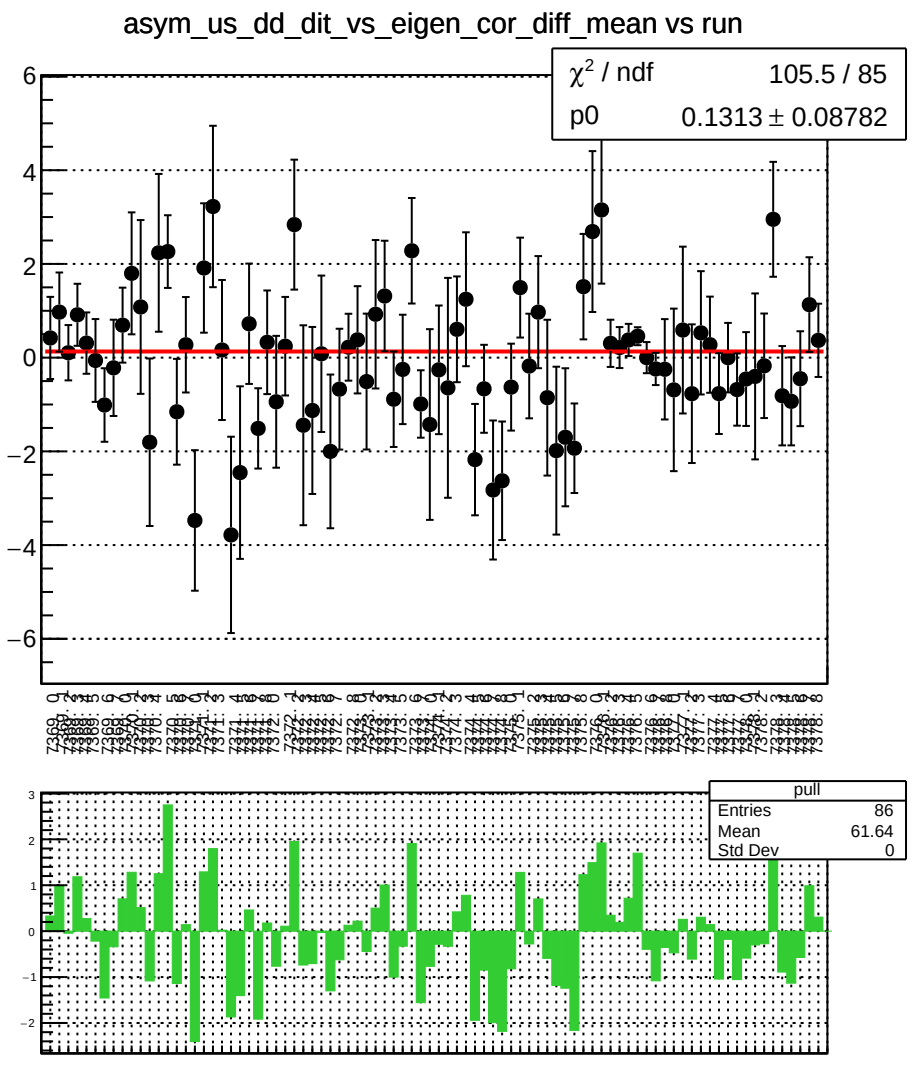

pull1D
Entries 86
Mean 0.003459
Std Dev 1.03

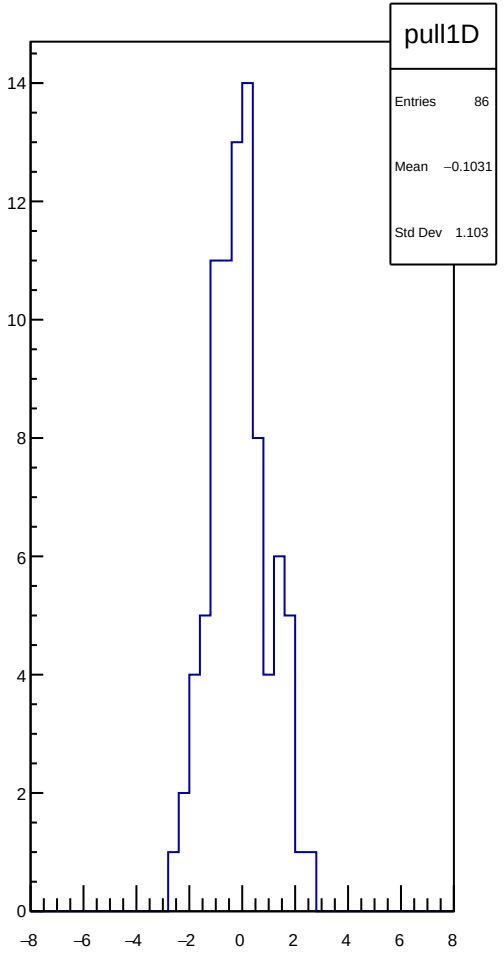

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.324e+05 / 85
p0 7.483e−12 ± 6.689e−15
45
40
35
30
25
20
15
10
5

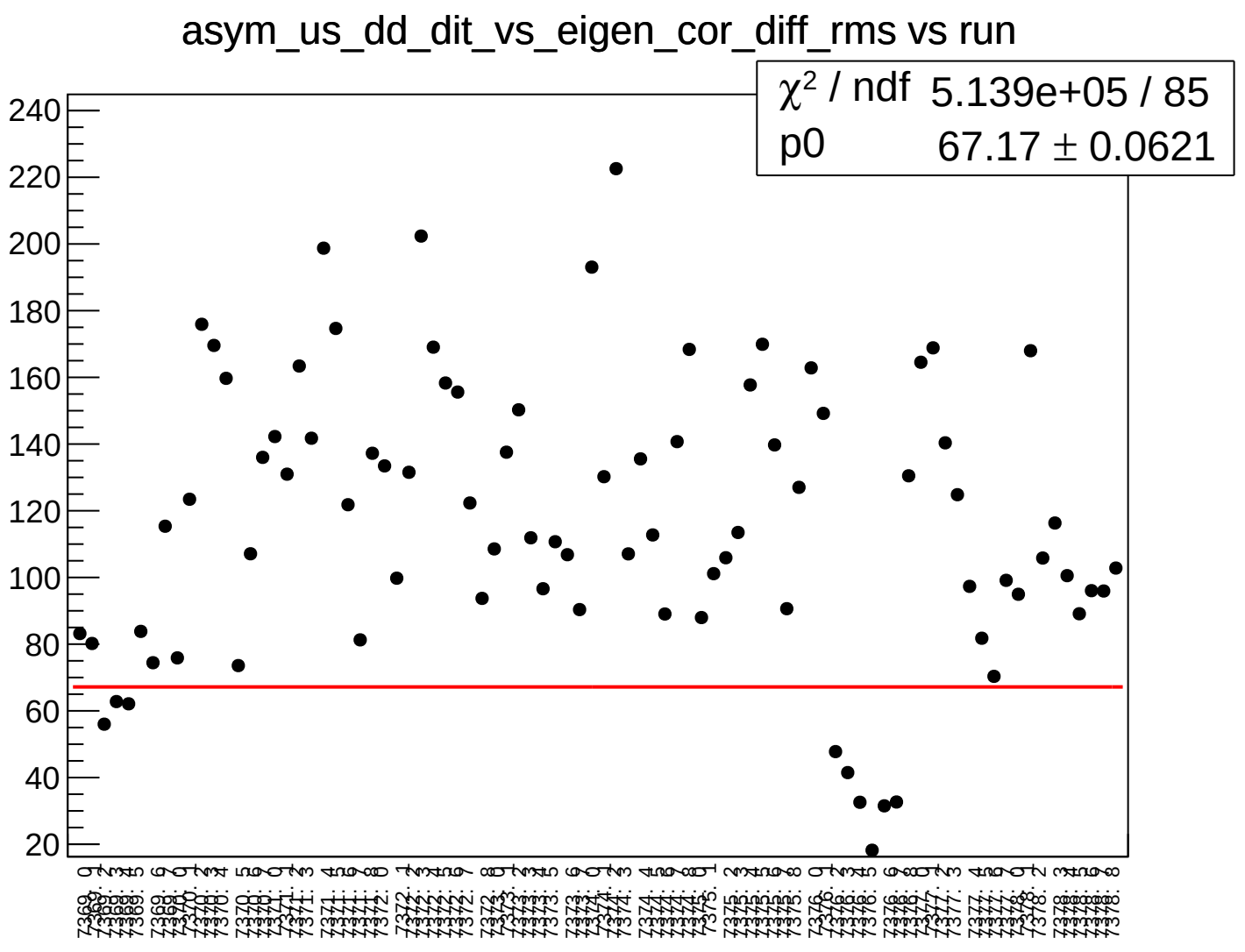

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 85
p0 0.1313 ± 0.08782
pull
Entries 86
Mean 61.64
Std Dev 0

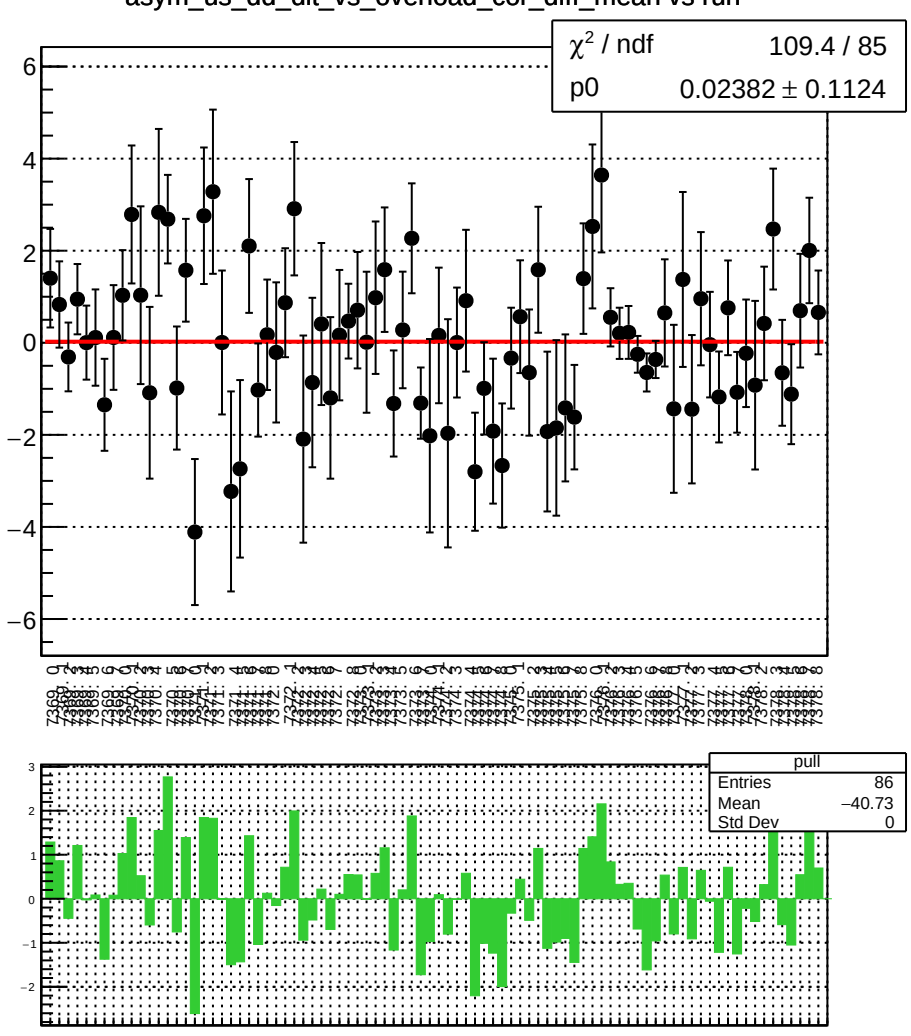

pull1D
Entries 86
Mean −0.1031
Std Dev 1.103

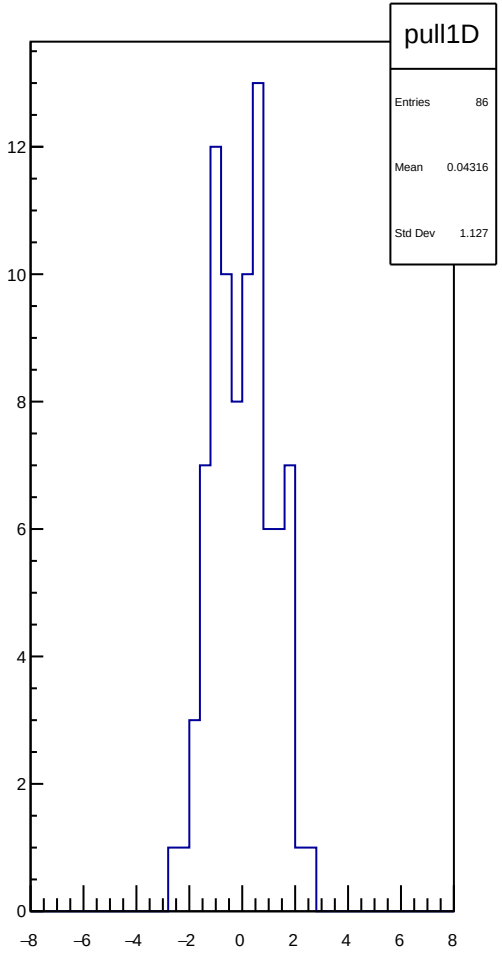

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.139e+05 / 85
p0 67.17 ± 0.0621
240
220
200
180
160
140
120
100
80
60
40
20

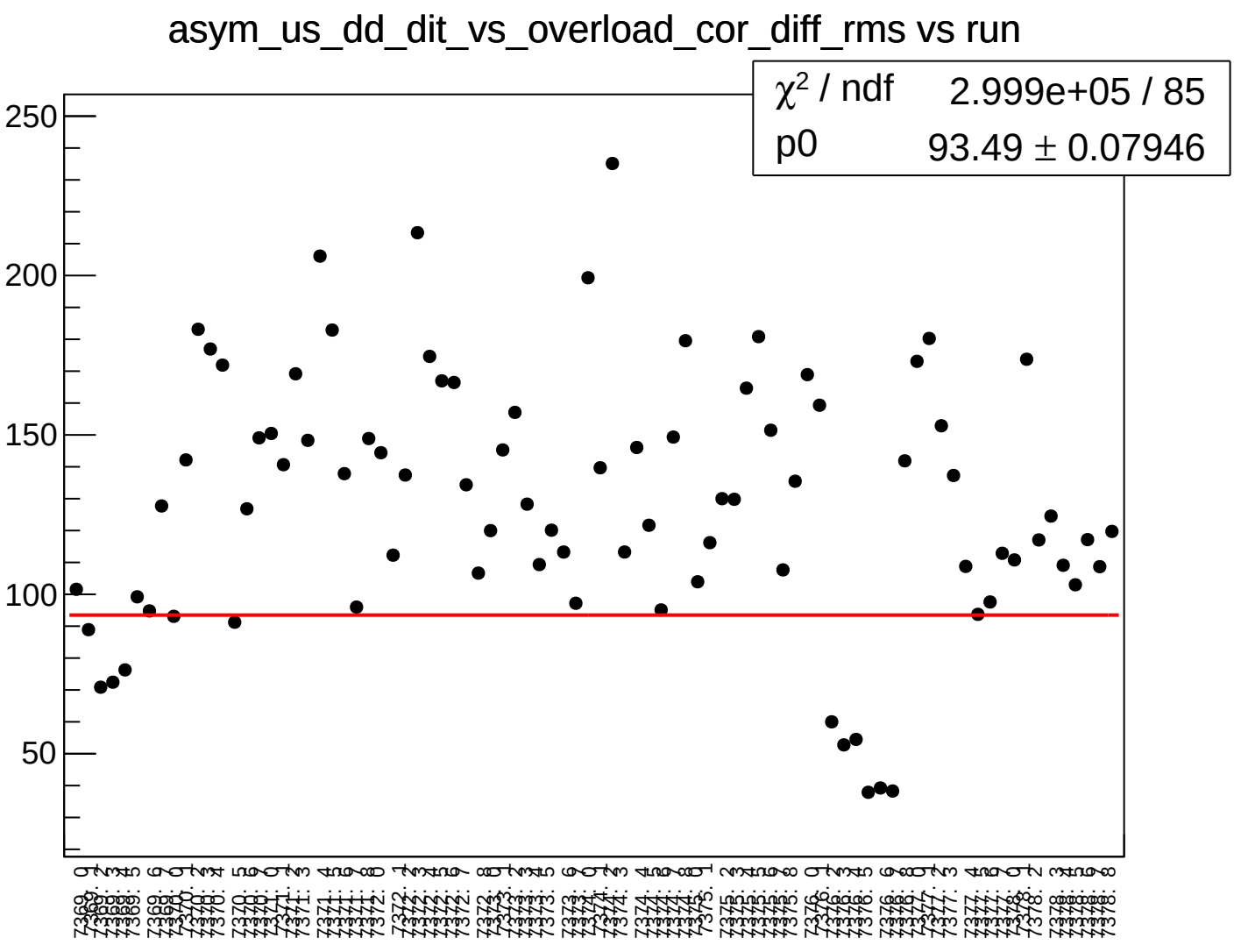

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 85
p0 0.1313 ± 0.08782
pull
Entries 86
Mean 61.64
Std Dev 0

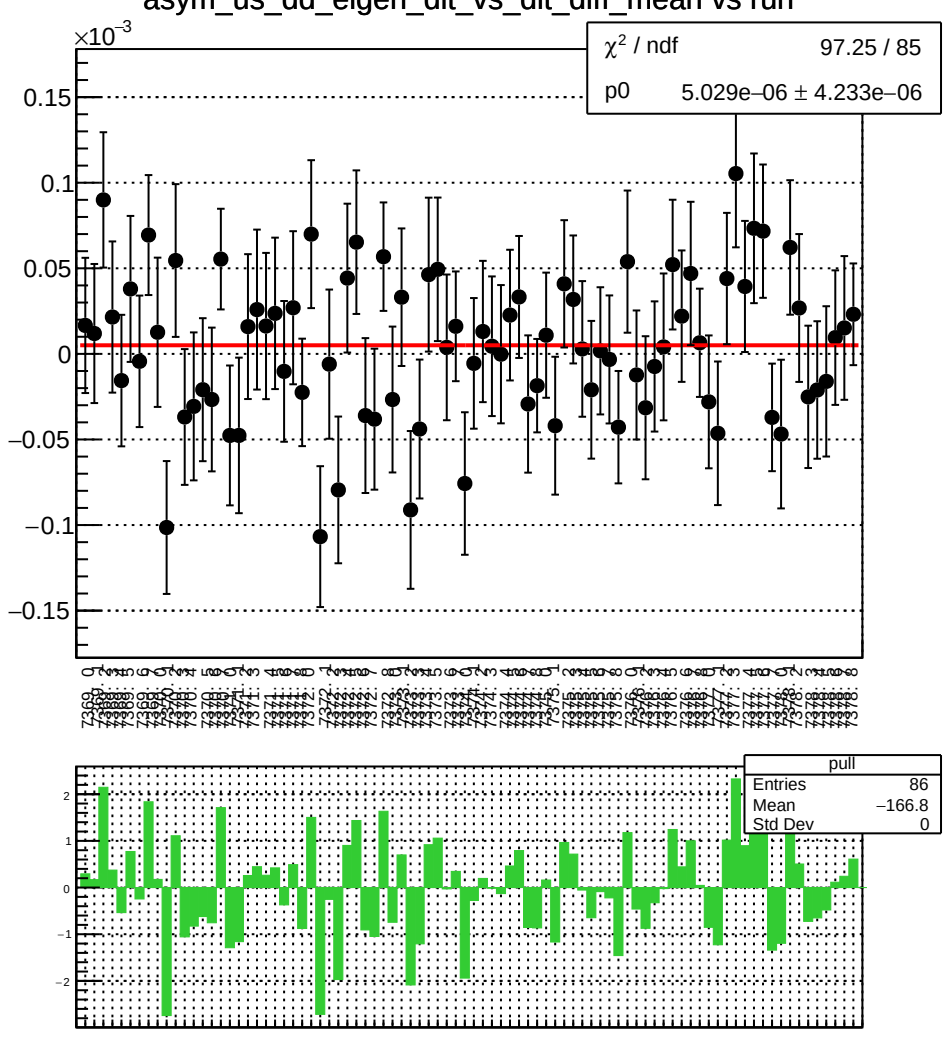

pull1D
Entries 86
Mean −0.1031
Std Dev 1.103

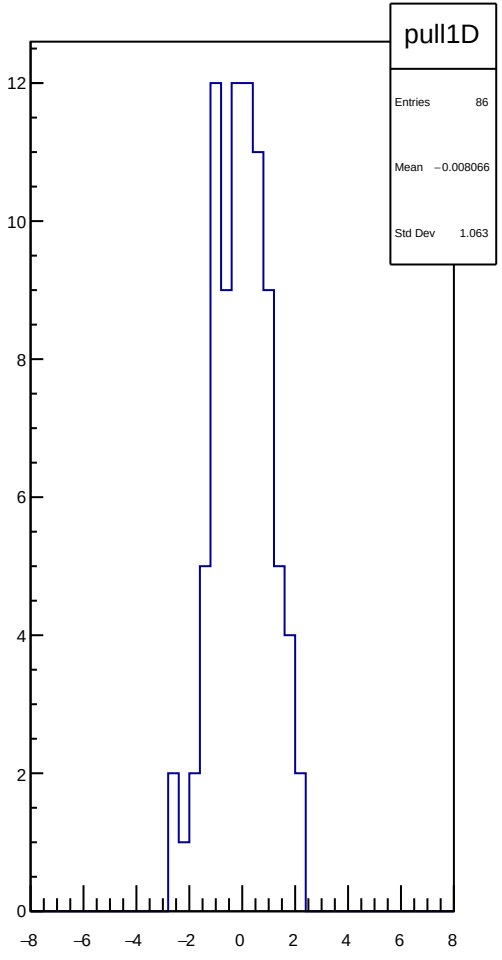

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.139e+05 / 85
p0 67.17 ± 0.0621
240
220
200
180
160
140
120
100
80
60
40
20

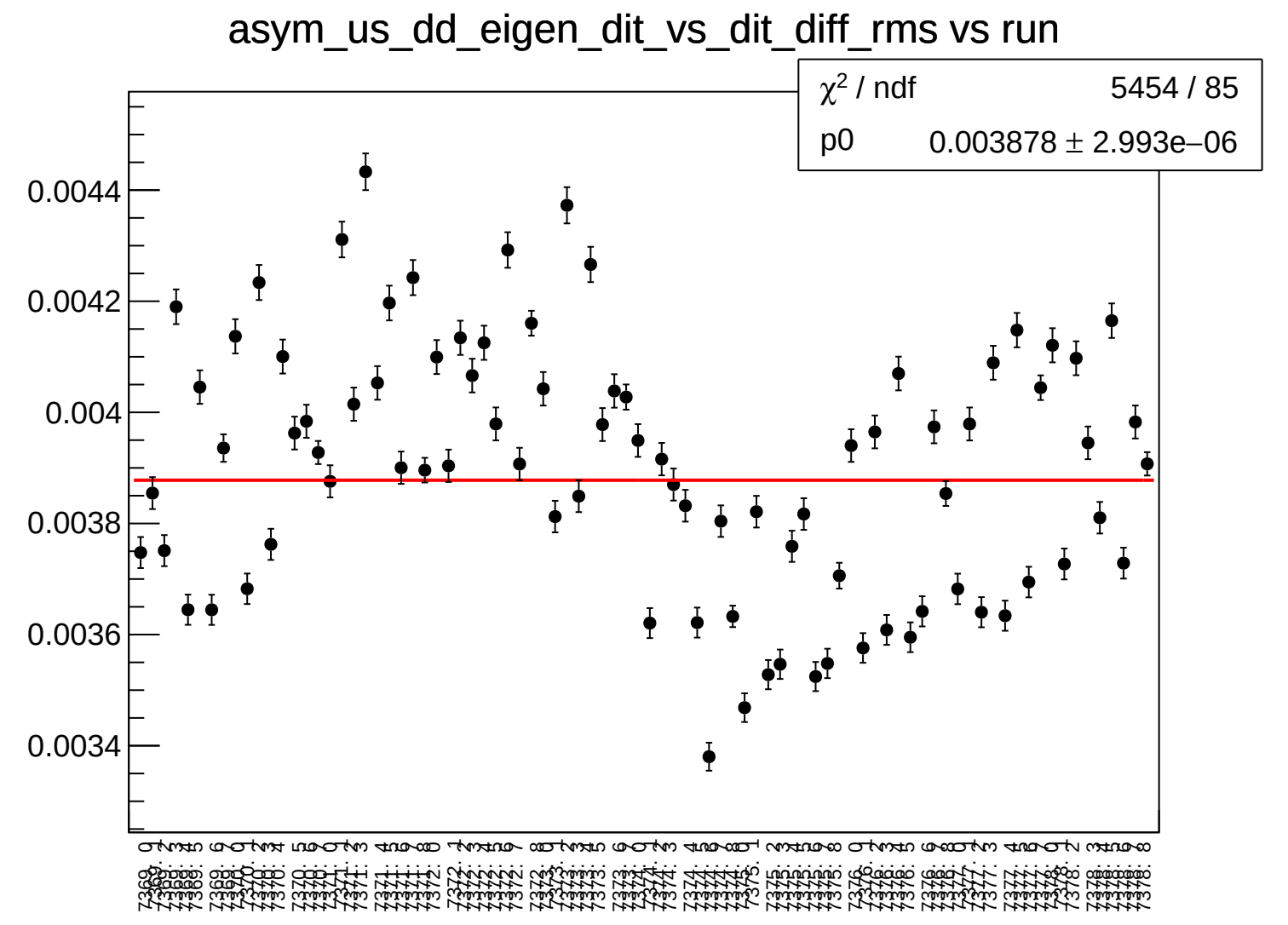

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 109.4 / 85
p0 0.02382 ± 0.1124
pull
Entries 86
Mean −40.73
Std Dev 0

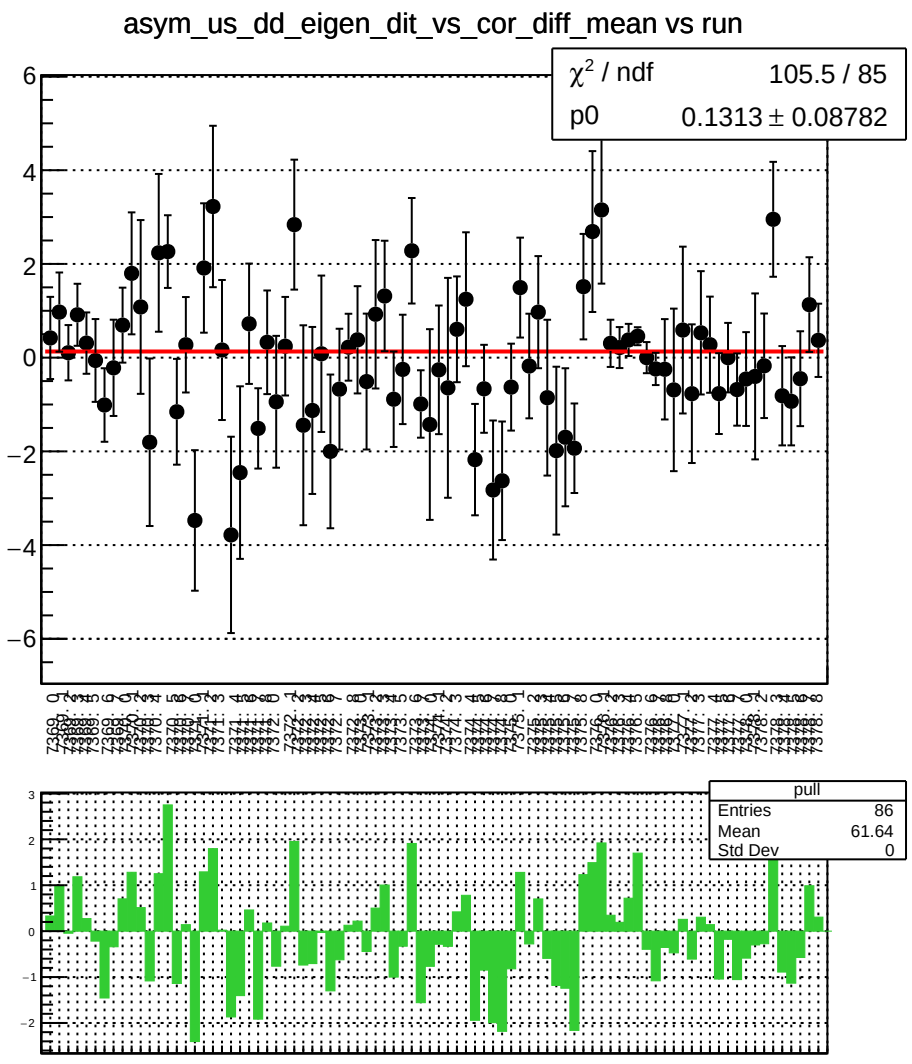

pull1D
Entries 86
Mean 0.04316
Std Dev 1.127

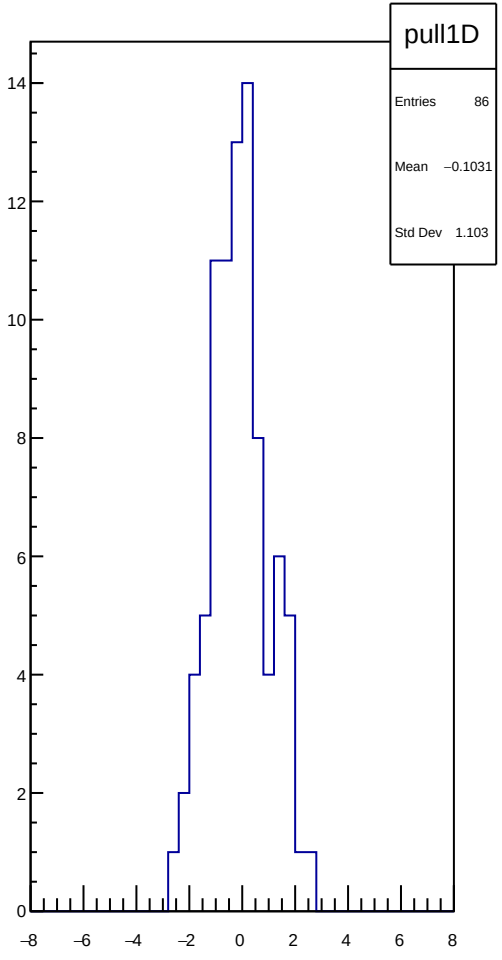

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.999e+05 / 85
p0 93.49 ± 0.07946
250
200
150
100
50

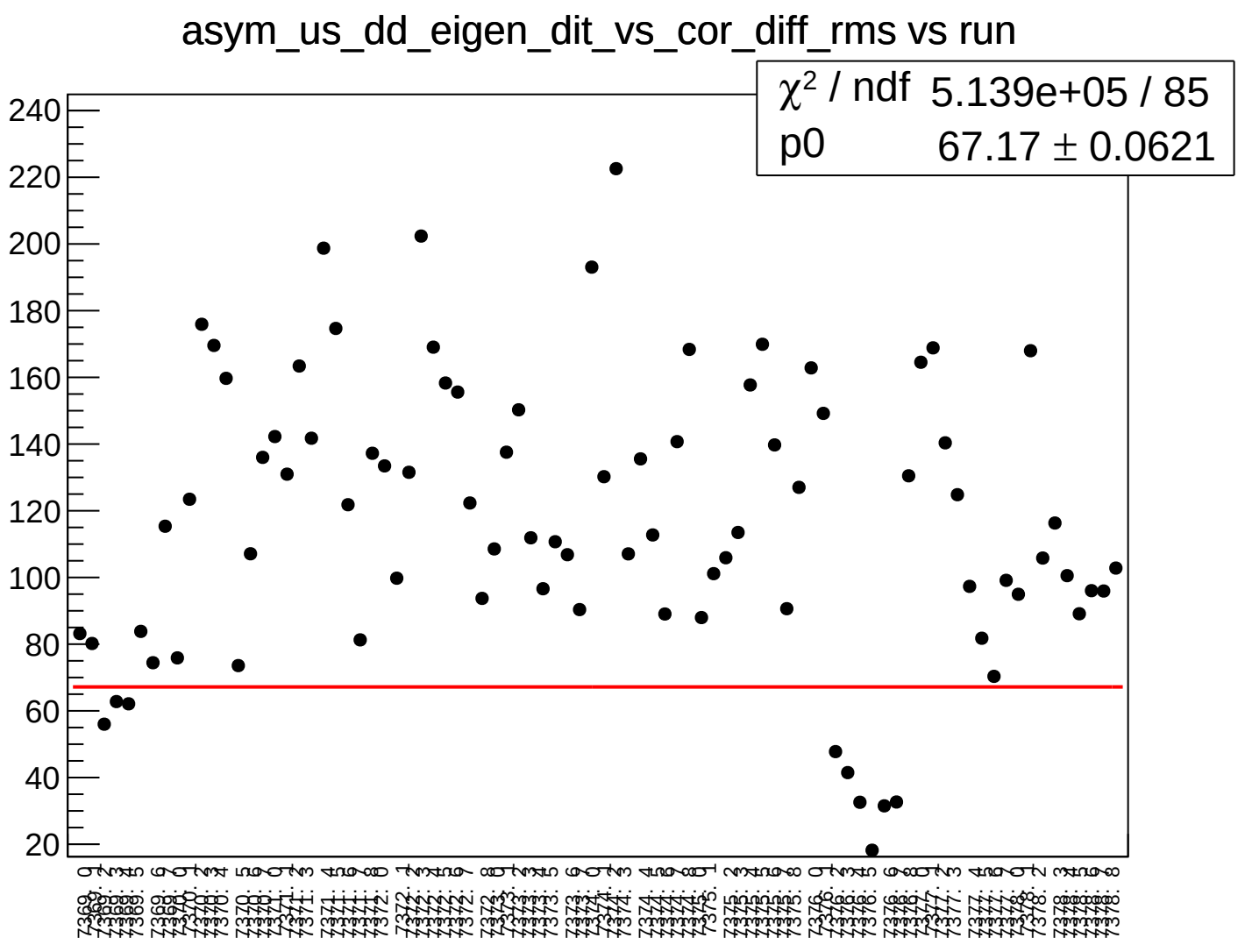

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.25 / 85
p0 5.029e−06 ± 4.233e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean −166.8
Std Dev 0
2
1
0
−1
−2

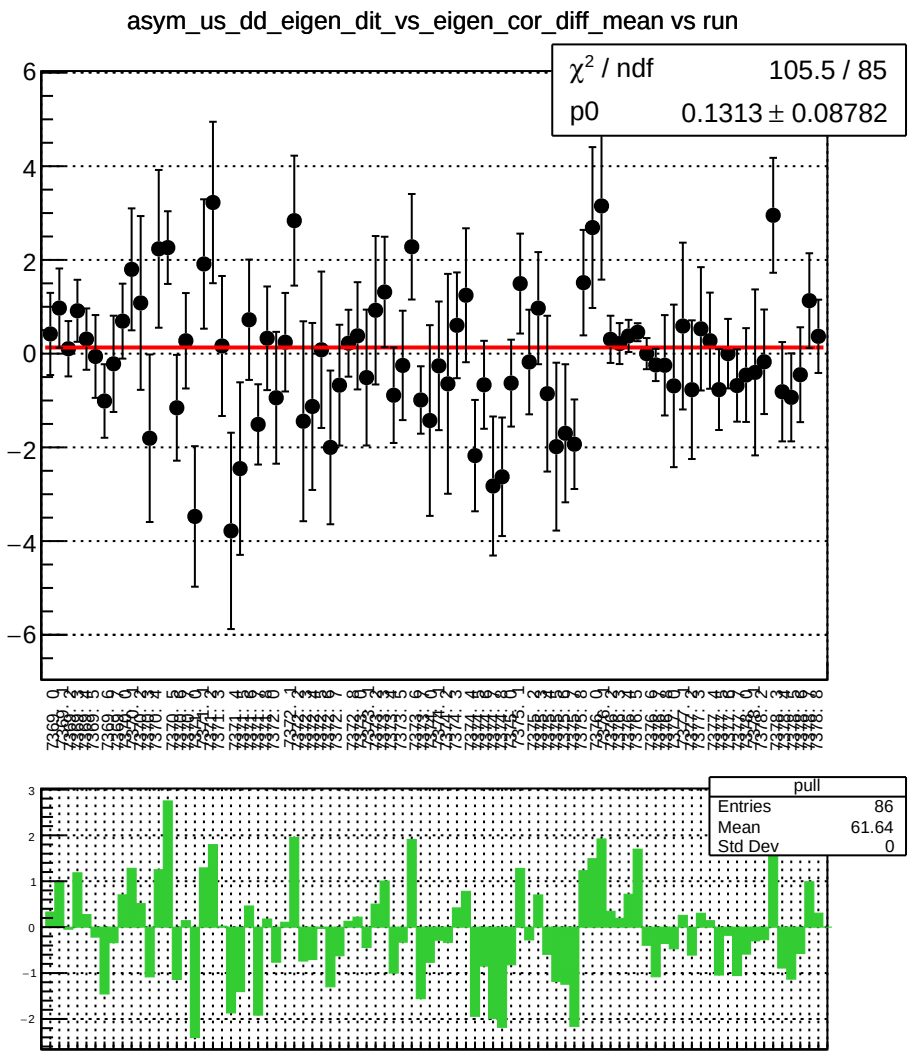

pull1D
Entries 86
Mean −0.008066
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

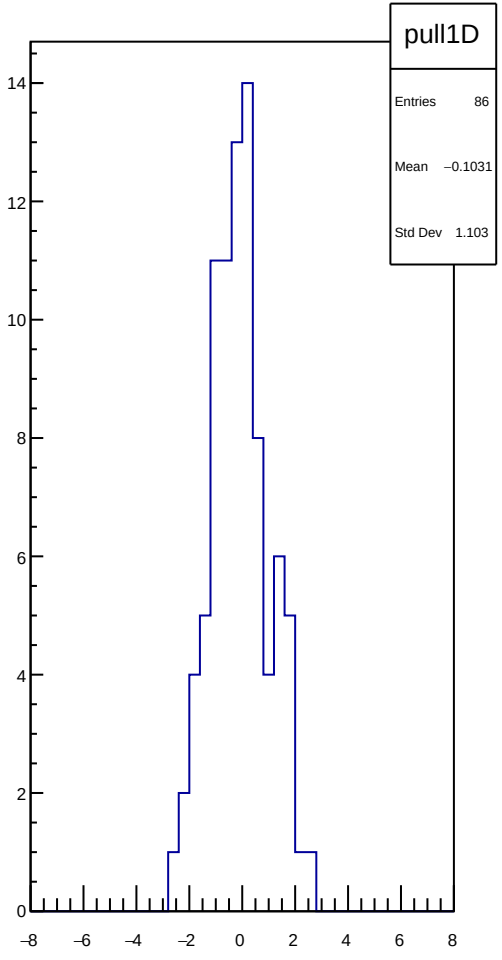

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5454 / 85
p0 0.003878 ± 2.993e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

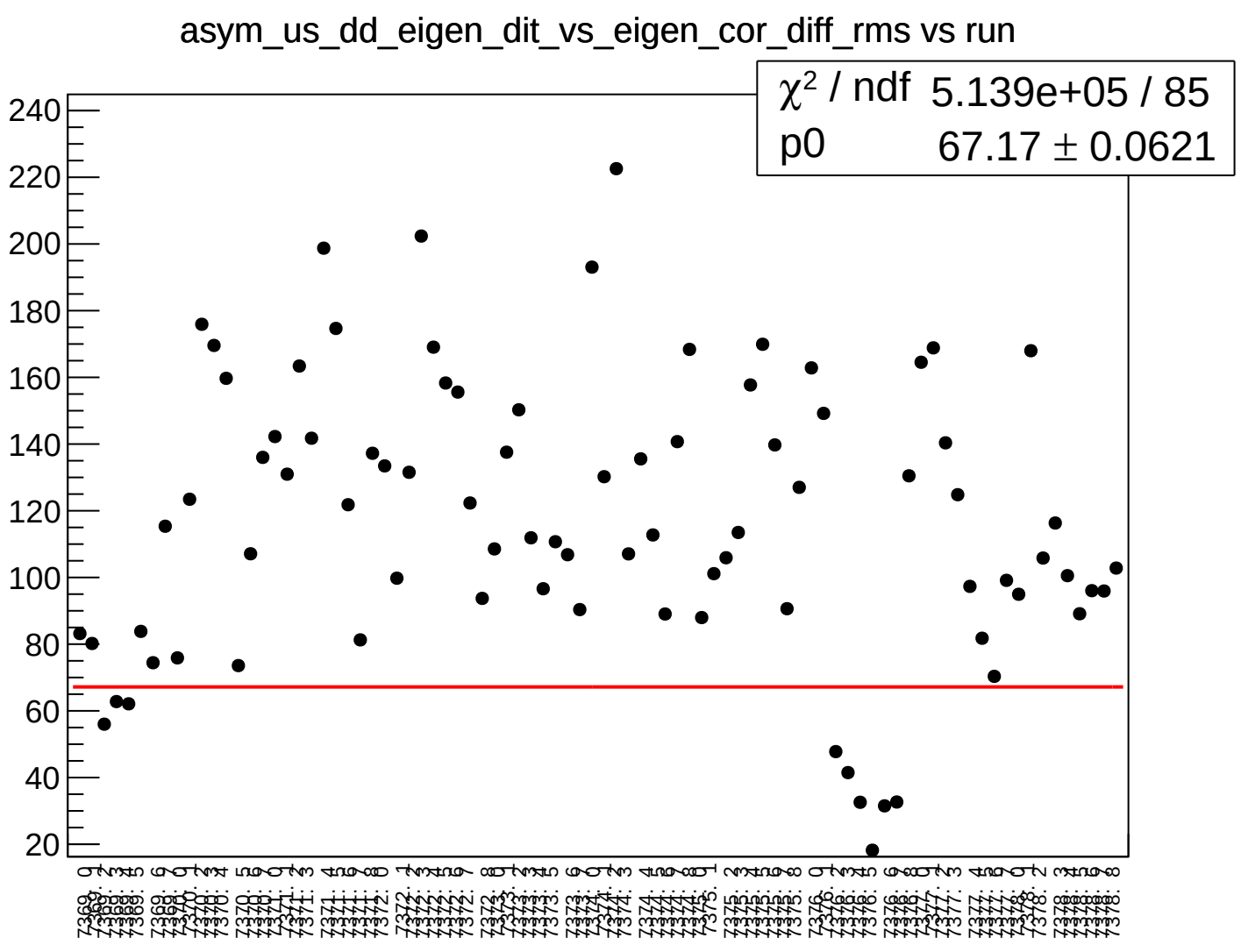

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 85
p0 0.1313 ± 0.08782
pull
Entries 86
Mean 61.64
Std Dev 0

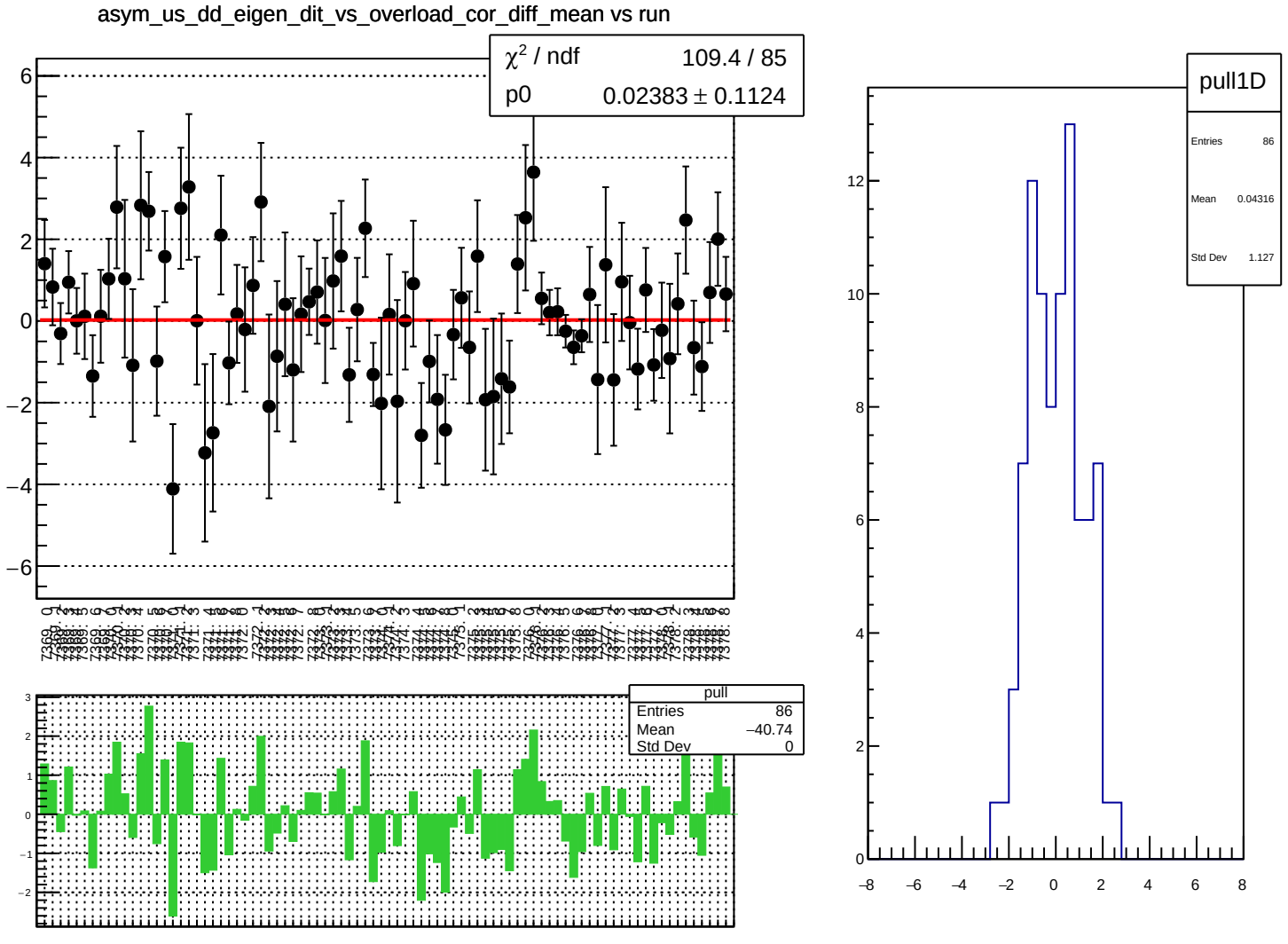

pull1D
Entries 86
Mean −0.1031
Std Dev 1.103

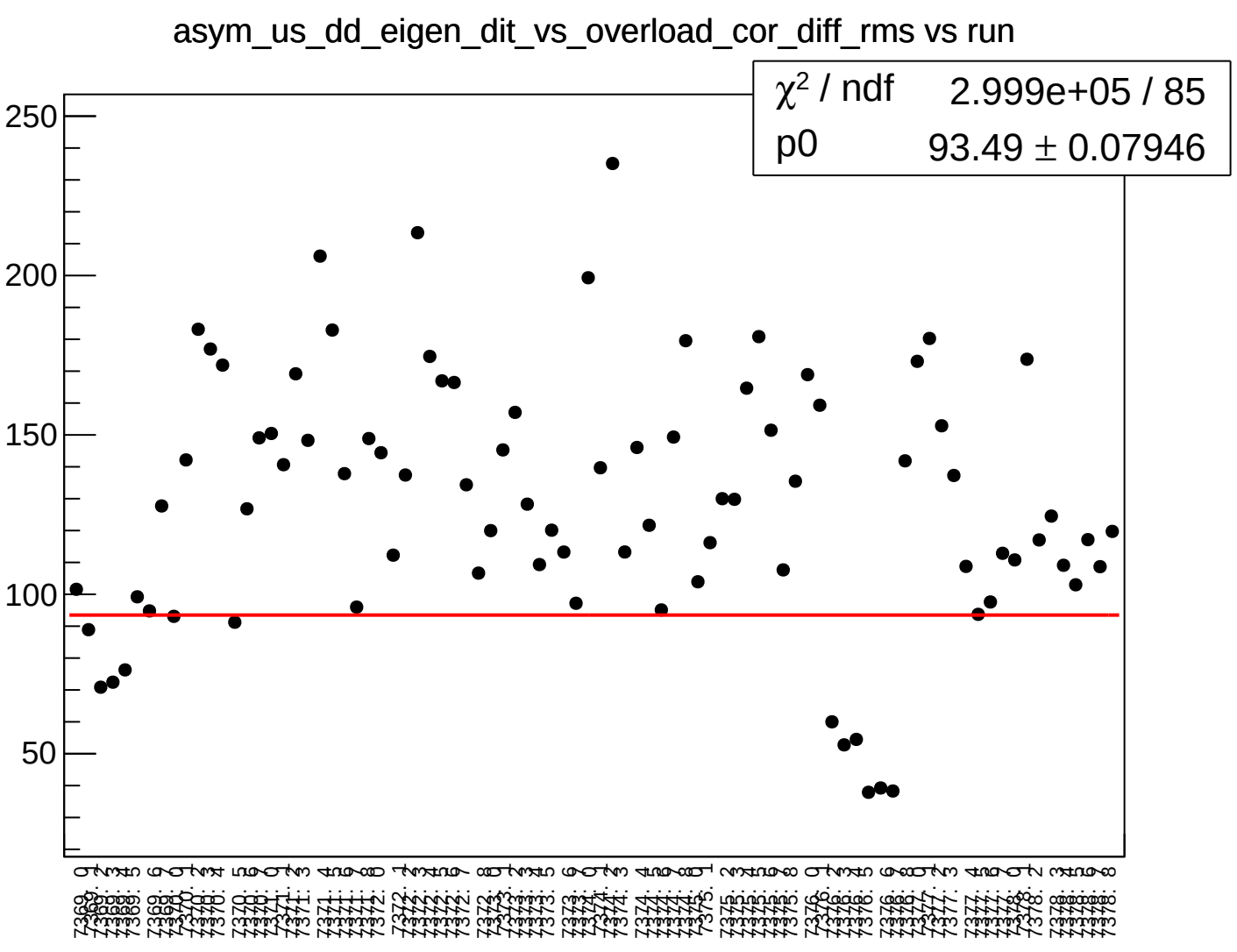

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.139e+05 / 85
p0 67.17 ± 0.0621
240
220
200
180
160
140
120
100
80
60
40
20

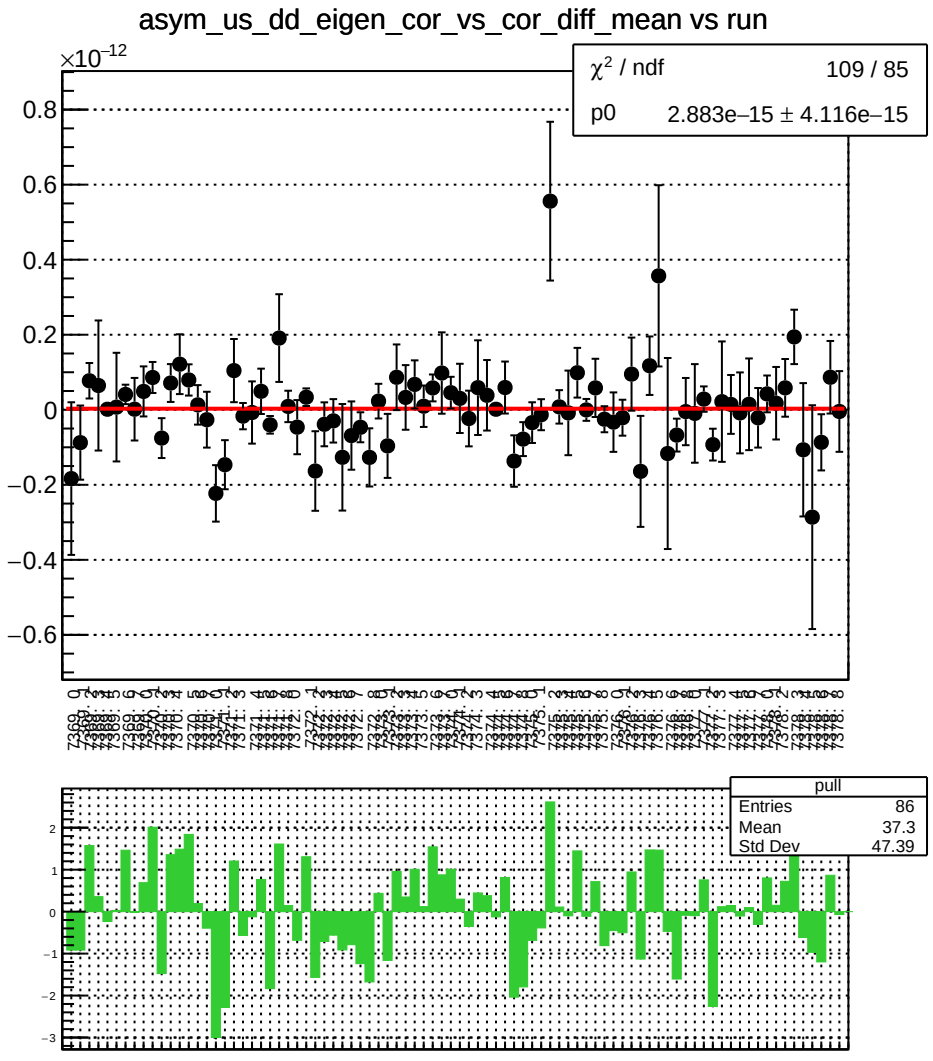

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 85
p0 0.1313 ± 0.08782
pull
Entries 86
Mean 61.64
Std Dev 0

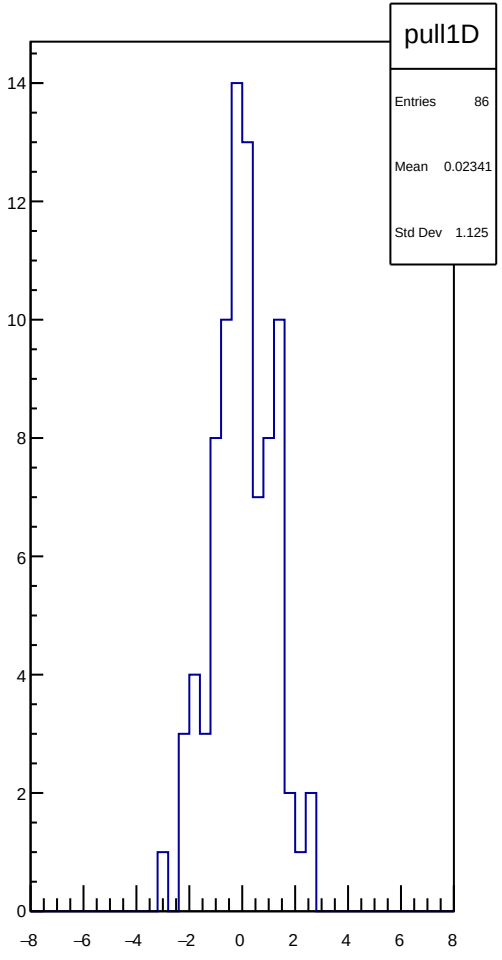

pull1D
Entries 86
Mean −0.1031
Std Dev 1.103

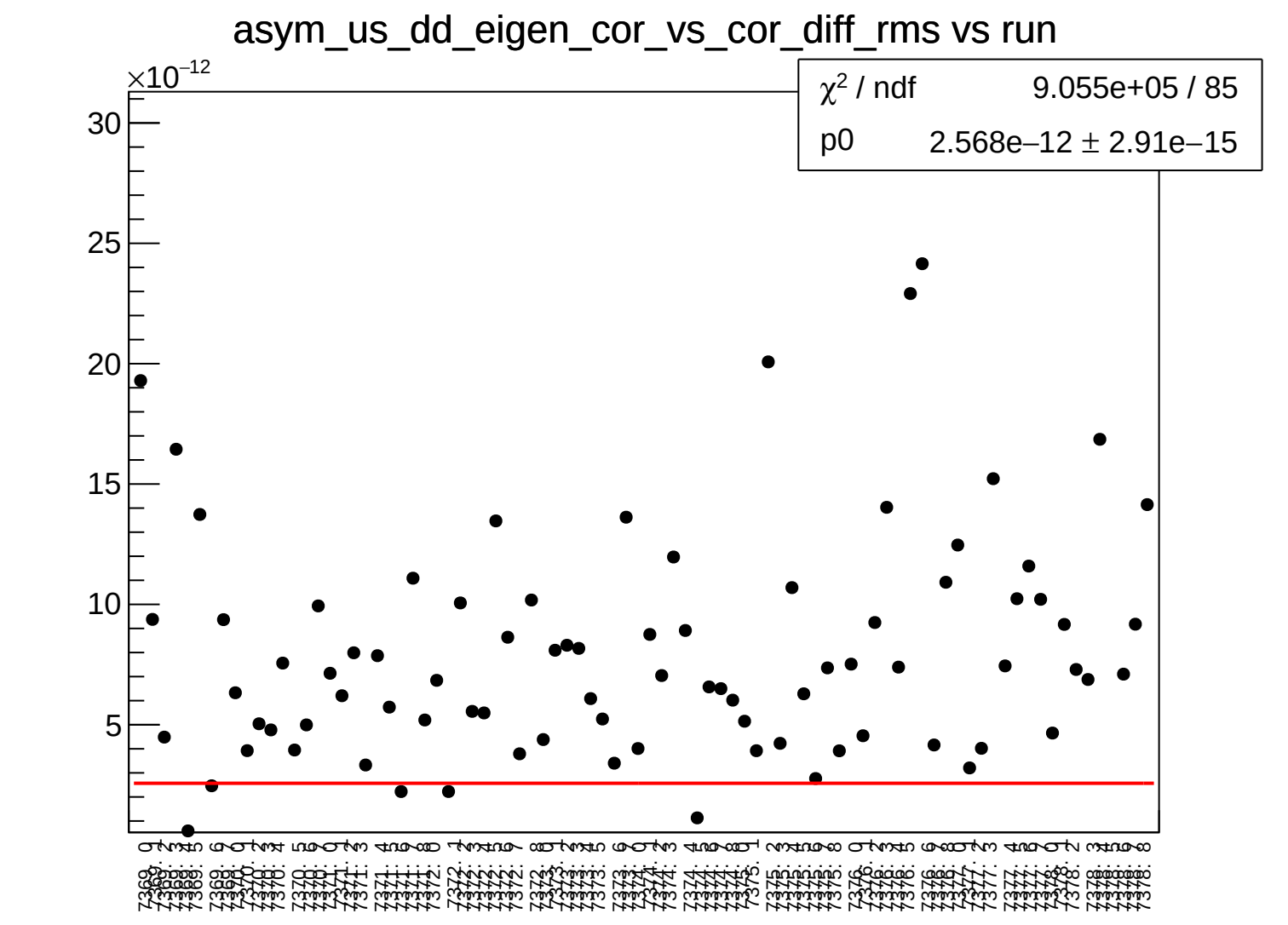

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.139e+05 / 85
p0 67.17 ± 0.0621
240
220
200
180
160
140
120
100
80
60
40
20

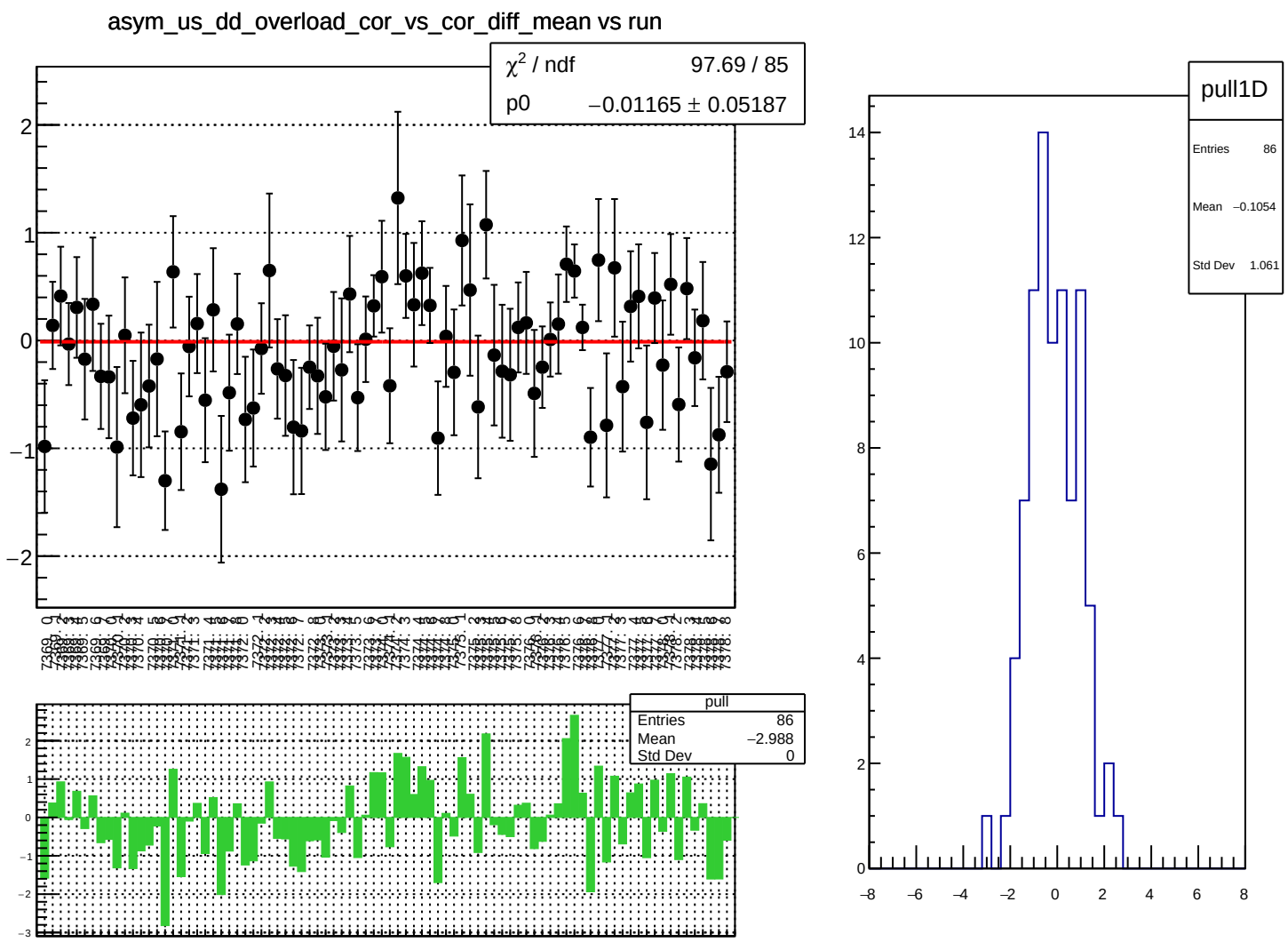

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 109.4 / 85
p0 0.02383 ± 0.1124
pull
Entries 86
Mean −40.74
Std Dev 0
pull1D
Entries 86
Mean 0.04316
Std Dev 1.127

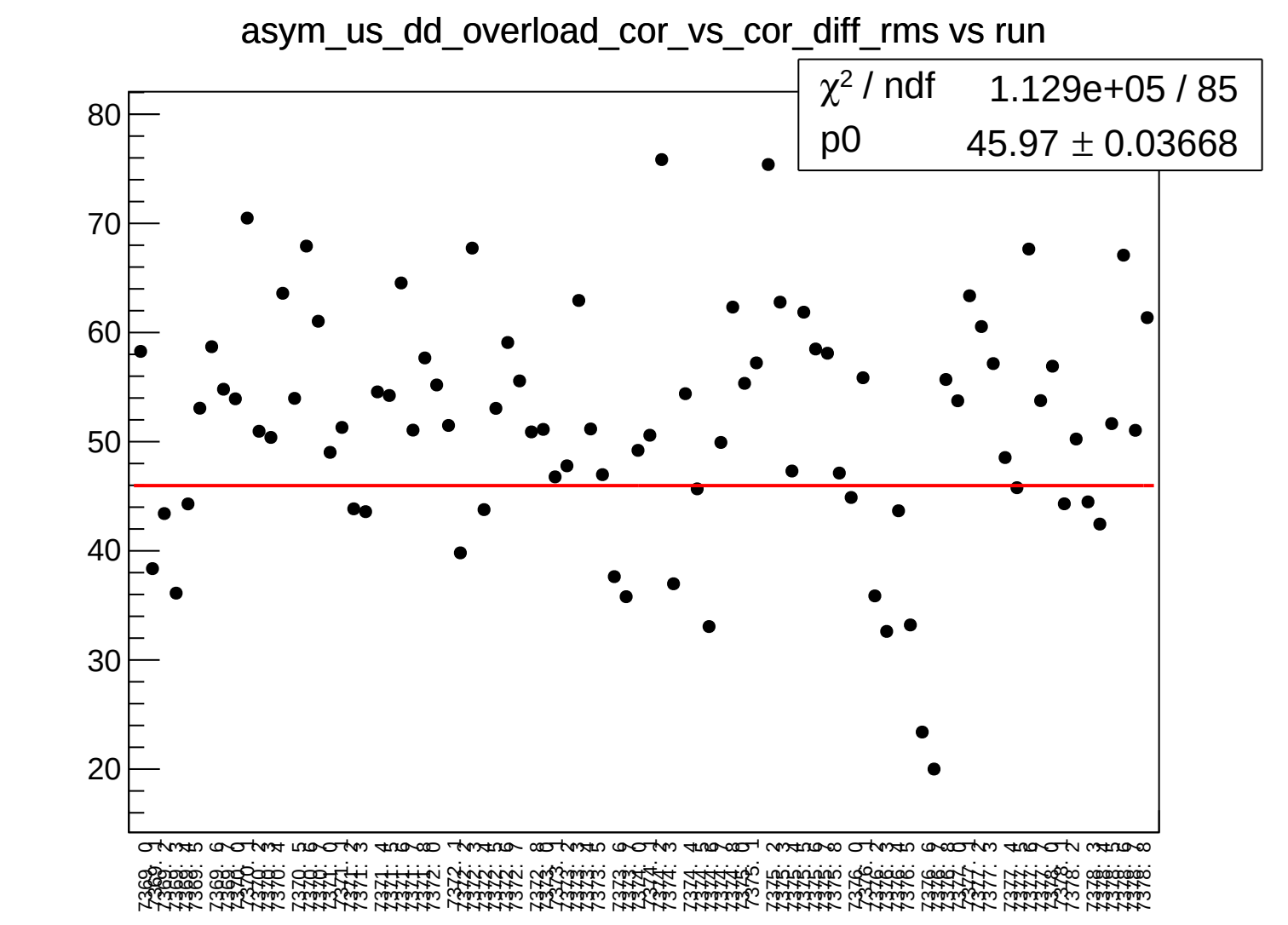

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.999e+05 / 85
p0 93.49 ± 0.07946
250
200
150
100
50

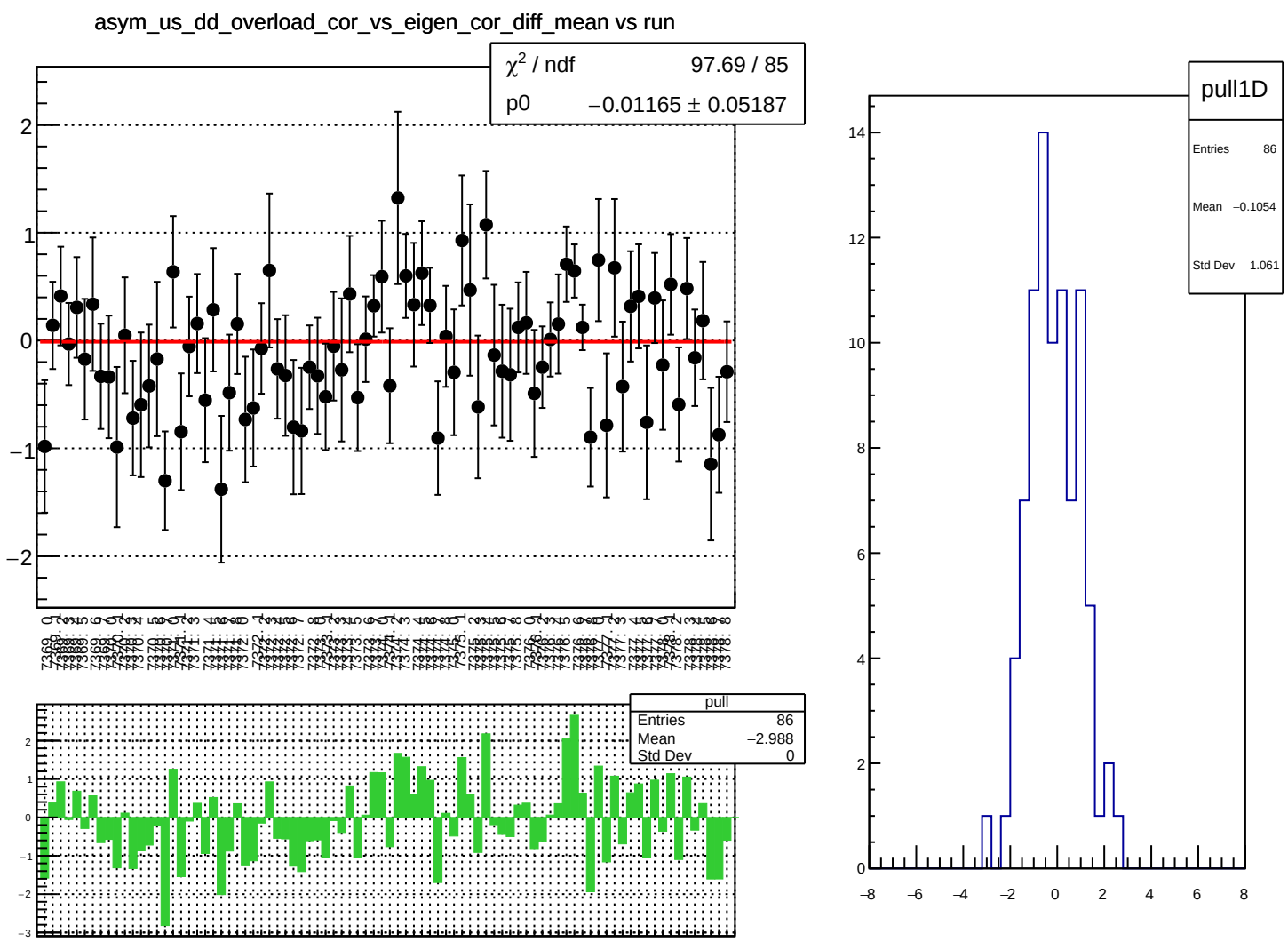

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109 / 85
p0 2.883e−15 ± 4.116e−15
pull
Entries 86
Mean 37.3
Std Dev 47.39

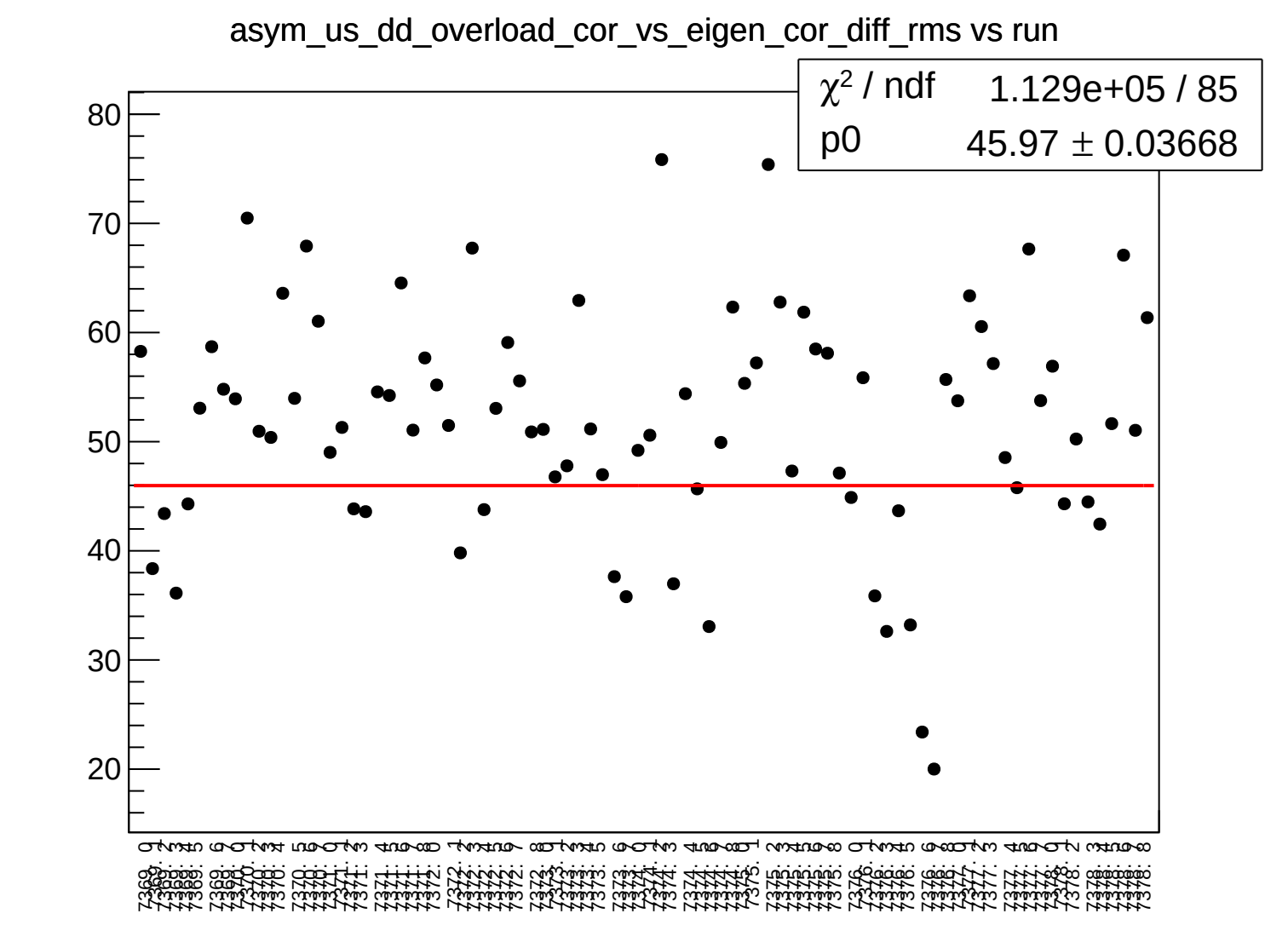

pull1D
Entries 86
Mean 0.02341
Std Dev 1.125

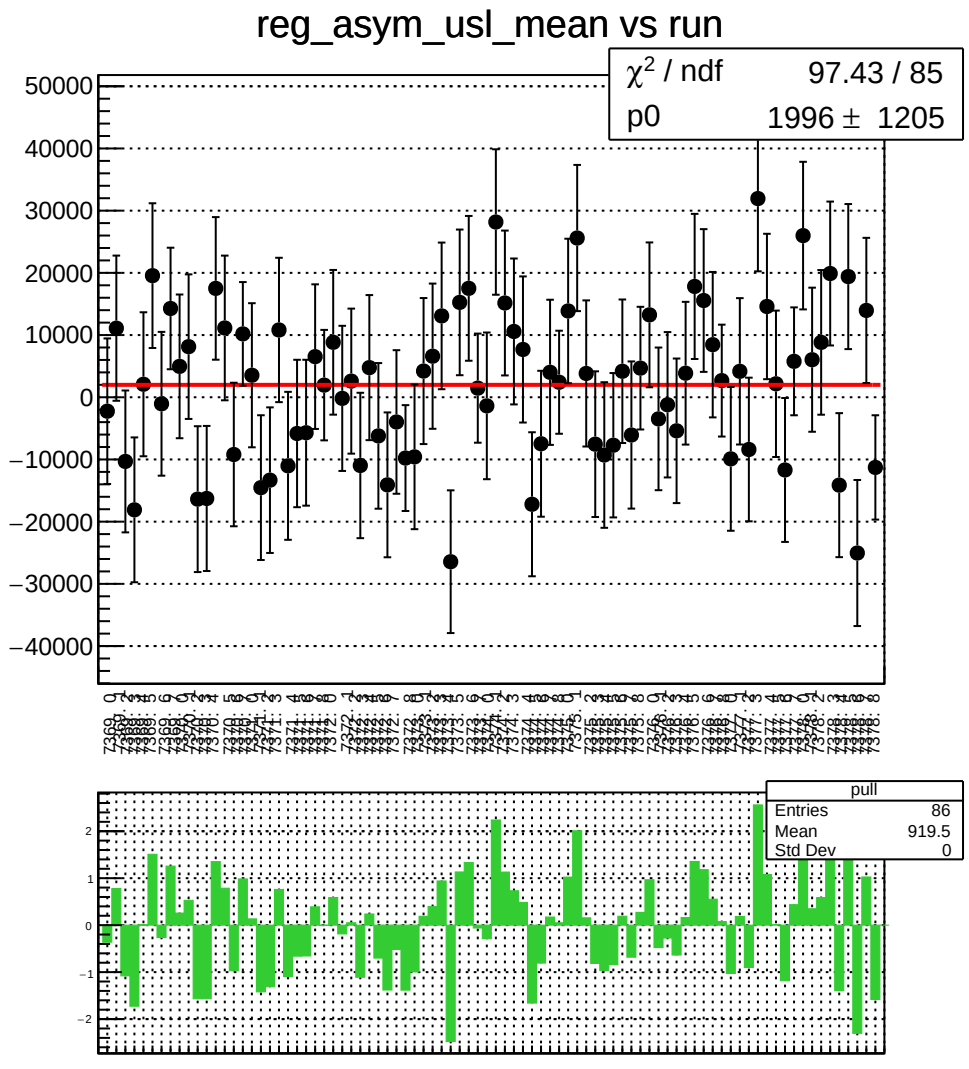

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.055e+05 / 85
p0 2.568e−12 ± 2.91e−15
30
25
20
15
10
5

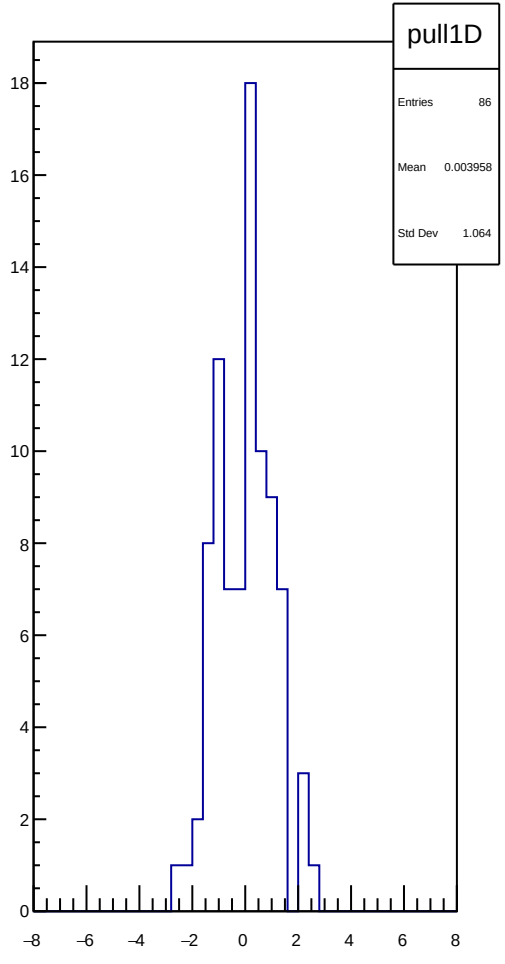

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 97.69 / 85
p0 −0.01165 ± 0.05187
pull
Entries 86
Mean −2.988
Std Dev 0
pull1D
Entries 86
Mean −0.1054
Std Dev 1.061

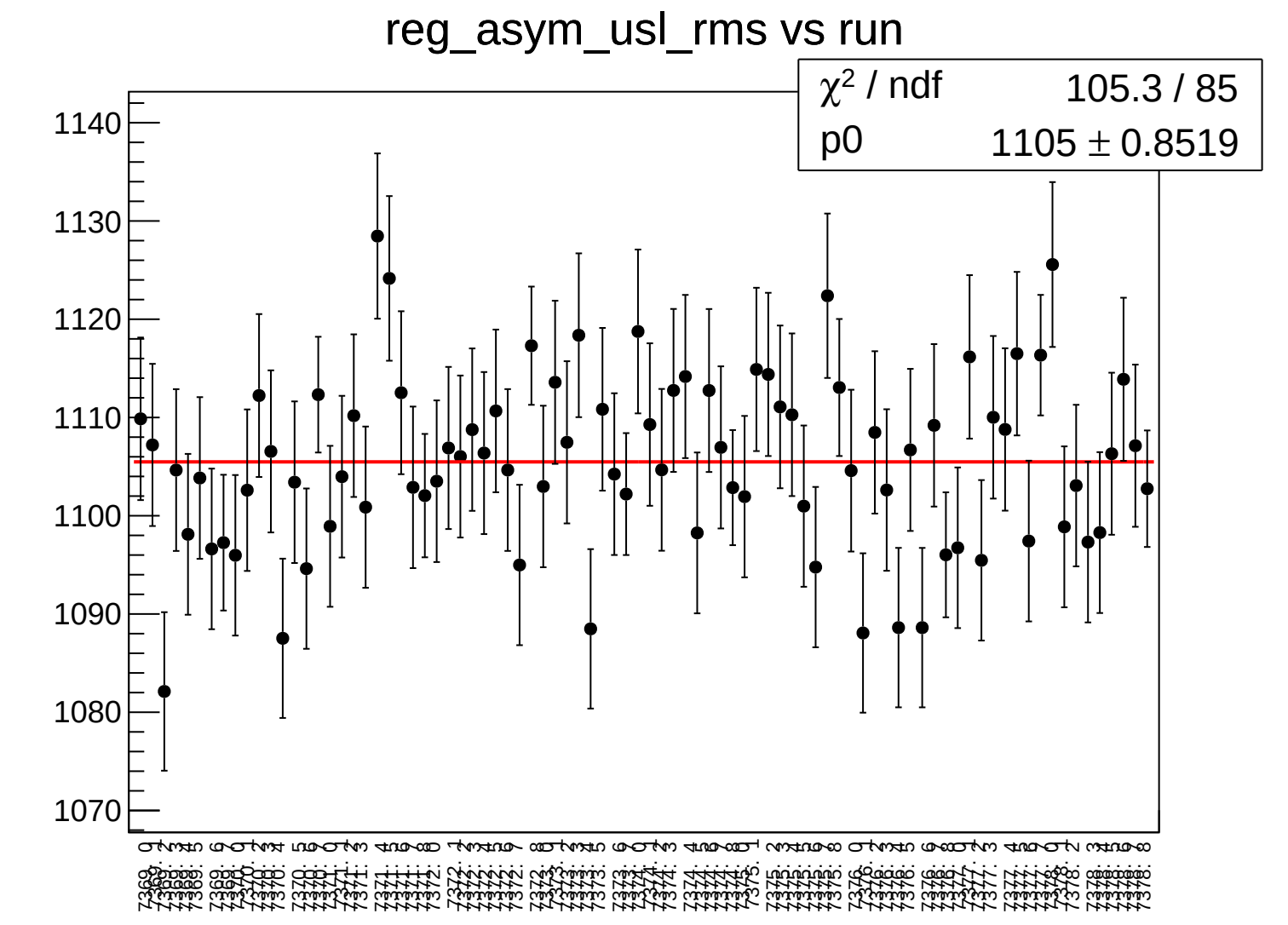

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.129e+05 / 85
p0 45.97 ± 0.03668
80
70
60
50
40
30
20

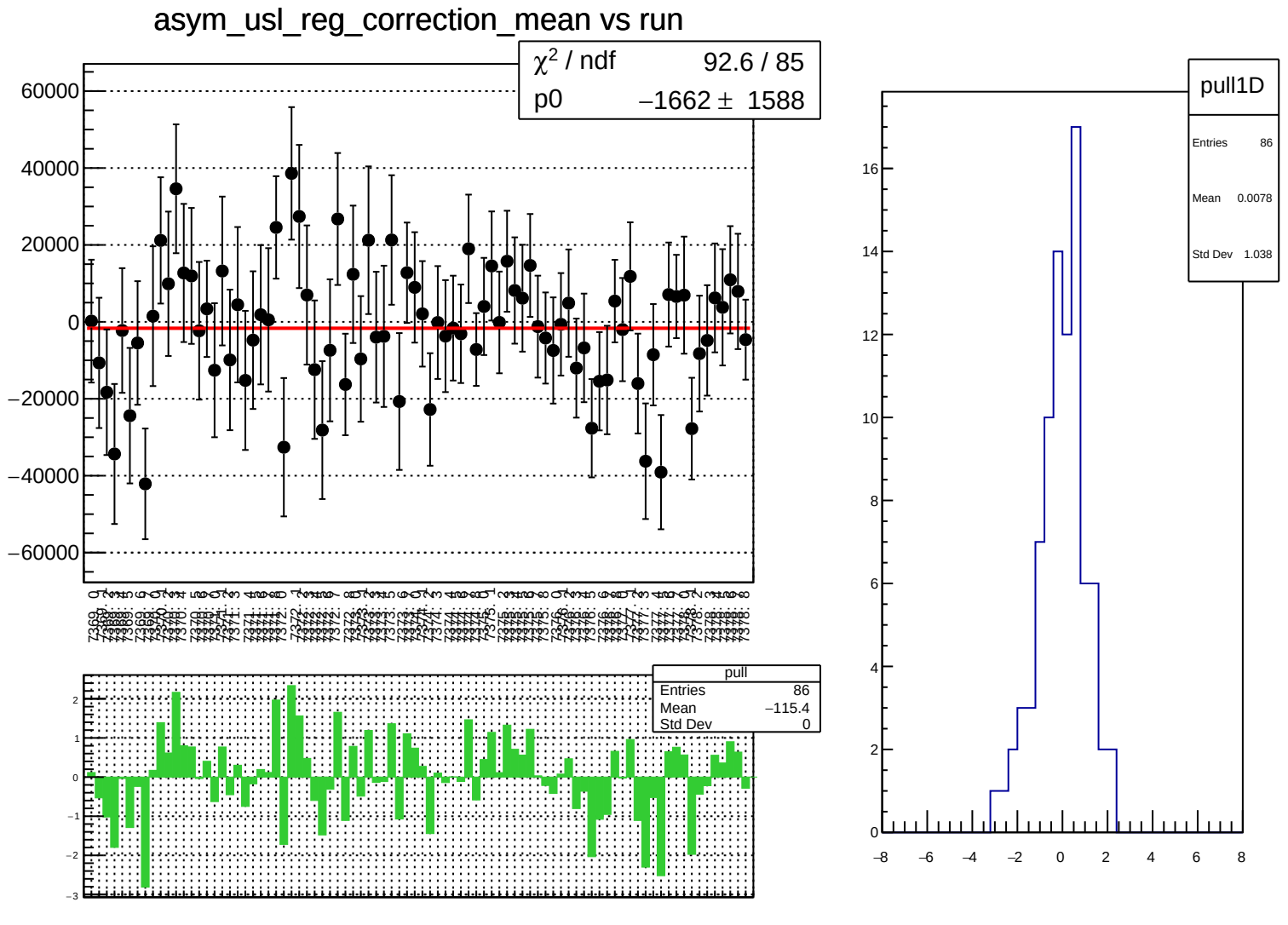

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.69 / 85
p0 −0.01165 ± 0.05187
pull
Entries 86
Mean −2.988
Std Dev 0
pull1D
Entries 86
Mean −0.1054
Std Dev 1.061

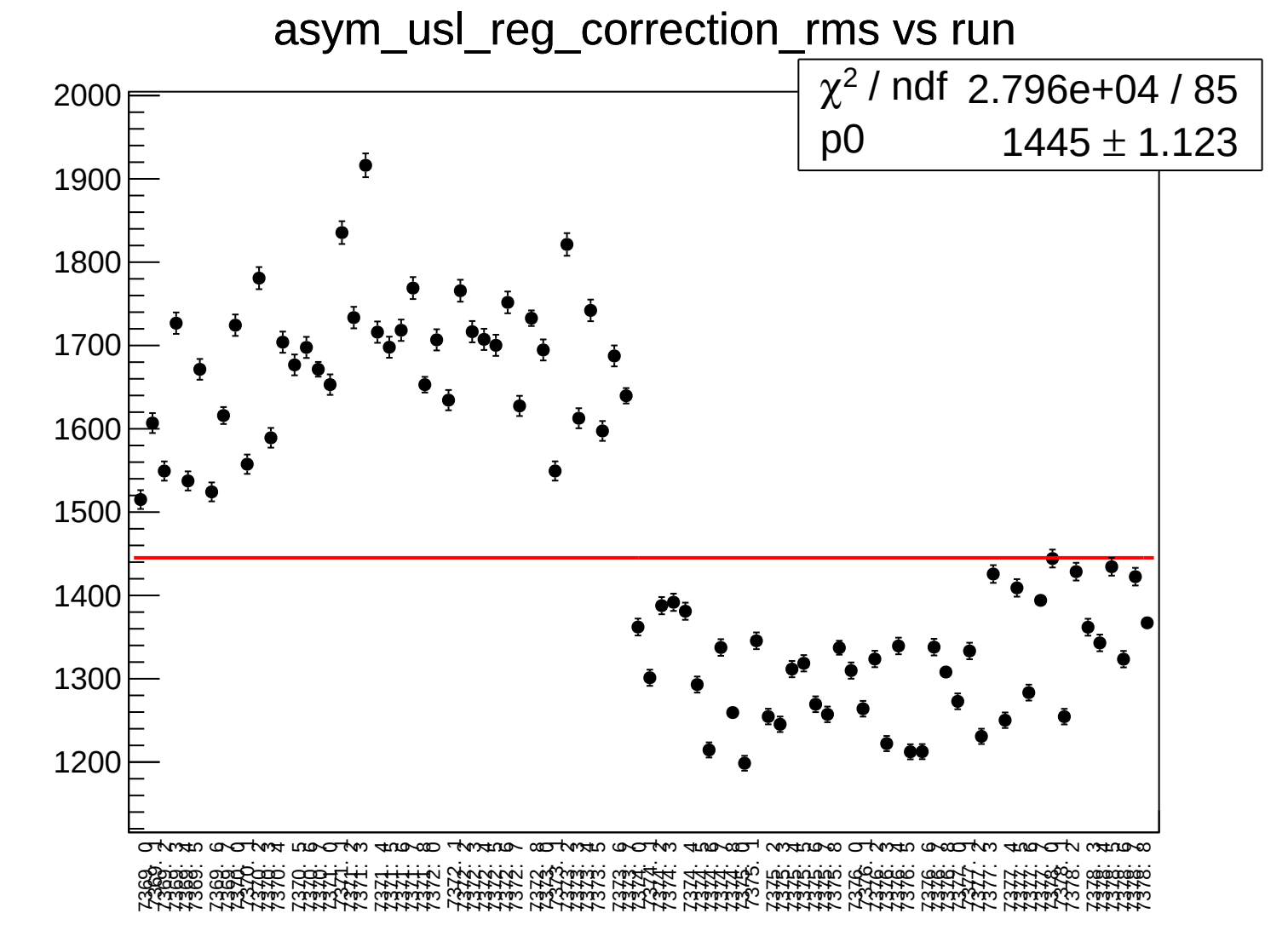

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.129e+05 / 85
p0 45.97 ± 0.03668
80
70
60
50
40
30
20

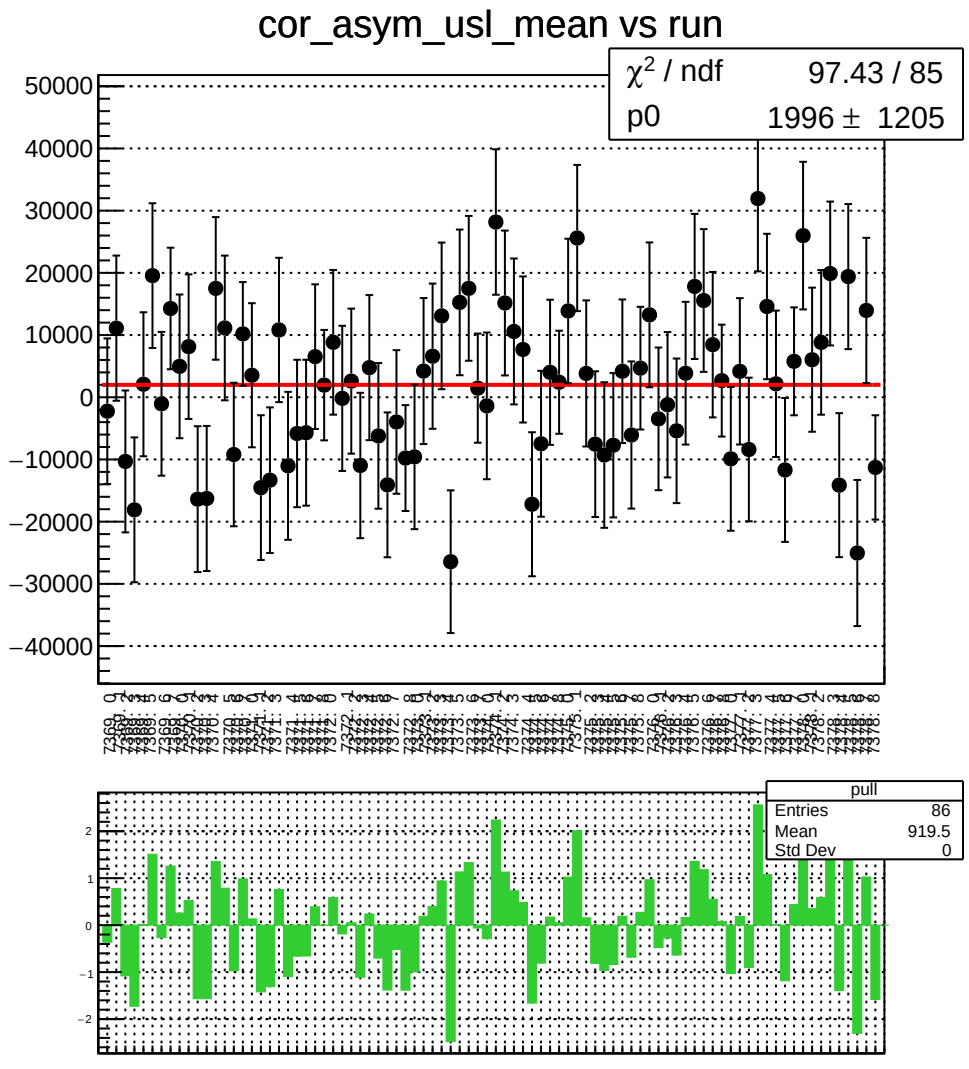

reg_asym_usl_mean vs run
χ² / ndf 97.43 / 85
p0 1996 ± 1205
pull
Entries 86
Mean 919.5
Std Dev 0

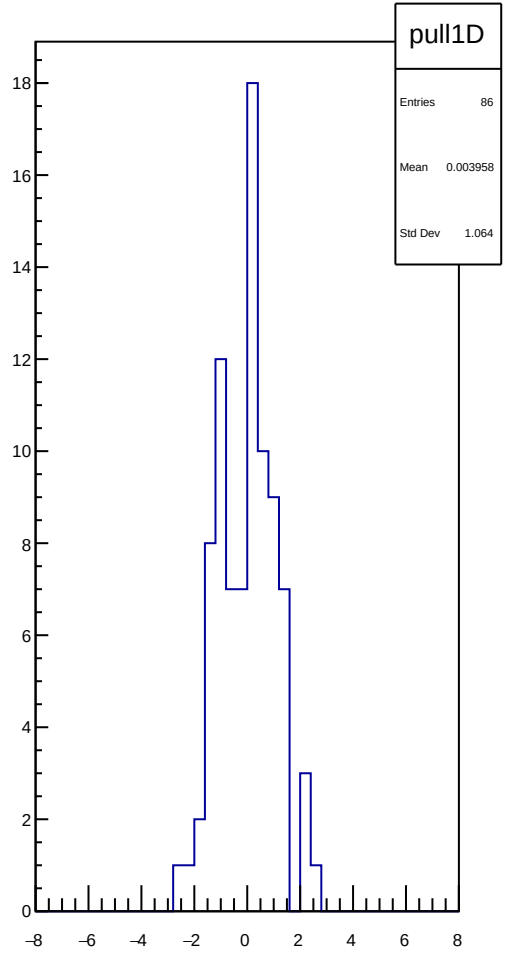

pull1D
Entries 86
Mean 0.003958
Std Dev 1.064

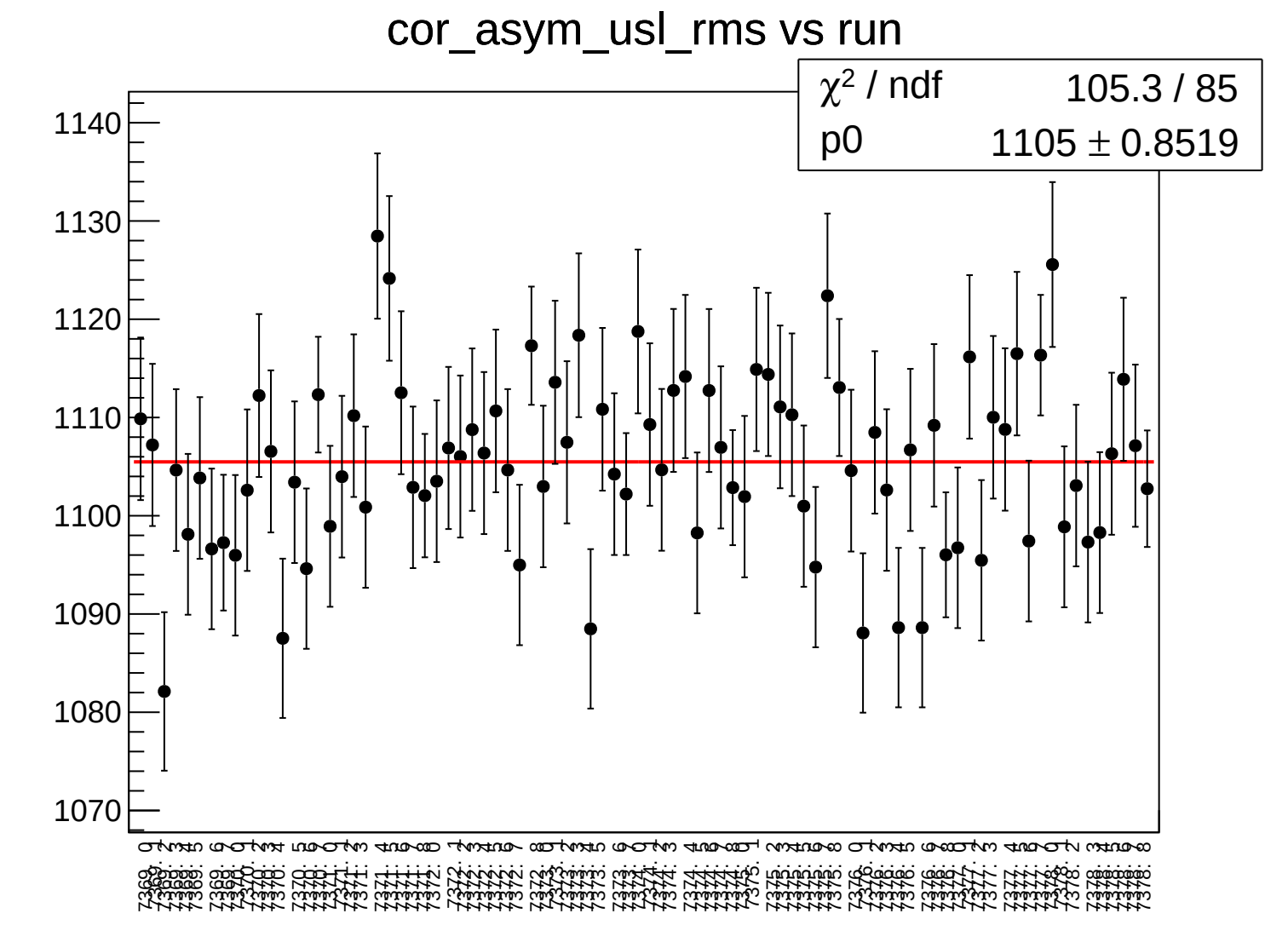

reg_asym_usl_rms vs run
χ² / ndf 105.3 / 85
p0 1105 ± 0.8519
1140
1130
1120
1110
1100
1090
1080
1070

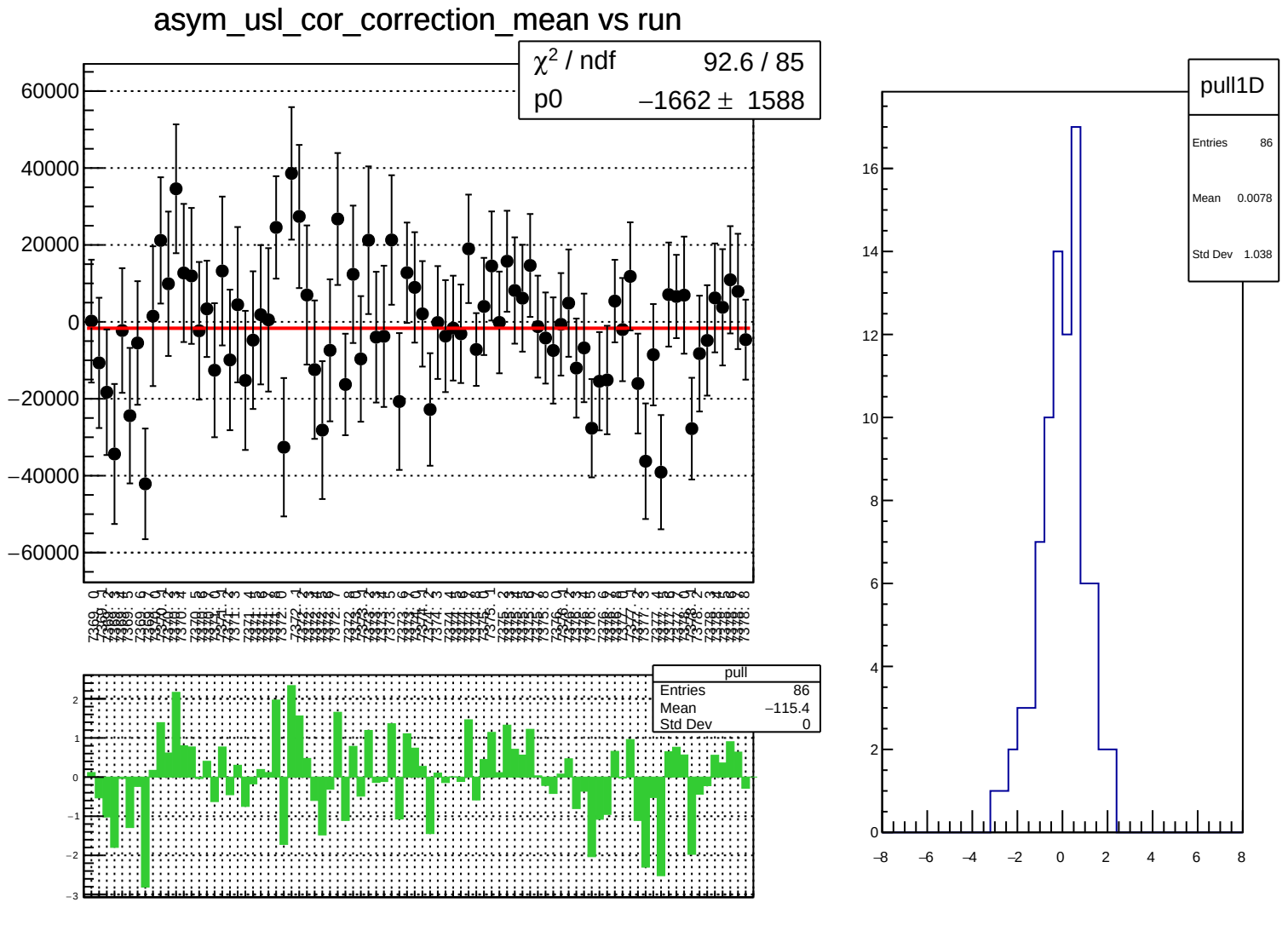

asym_usl_reg_correction_mean vs run
χ² / ndf 92.6 / 85
p0 −1662 ± 1588
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −115.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.0078
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

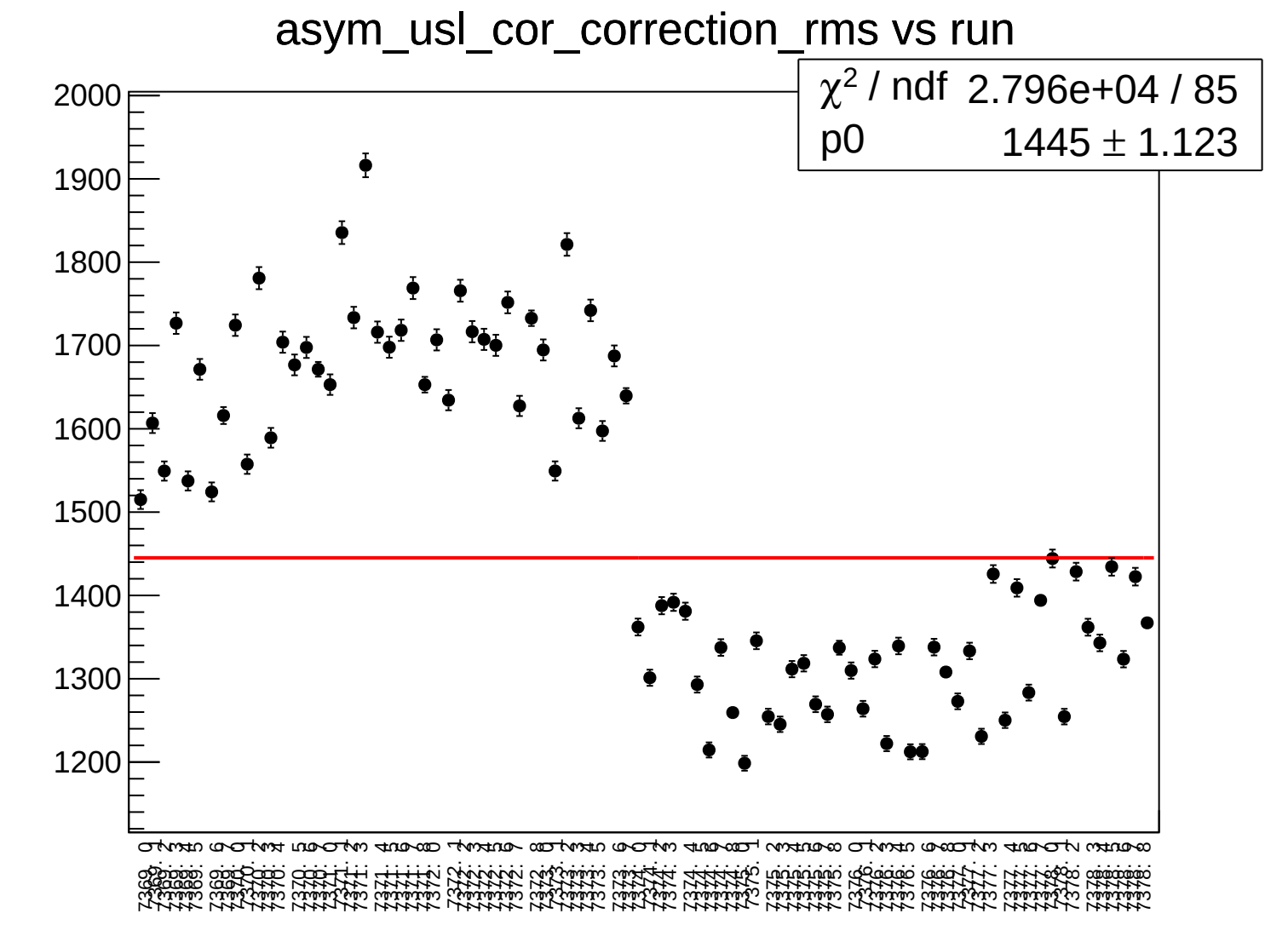

asym_usl_reg_correction_rms vs run
χ² / ndf 2.796e+04 / 85
p0 1445 ± 1.123
2000
1900
1800
1700
1600
1500
1400
1300
1200

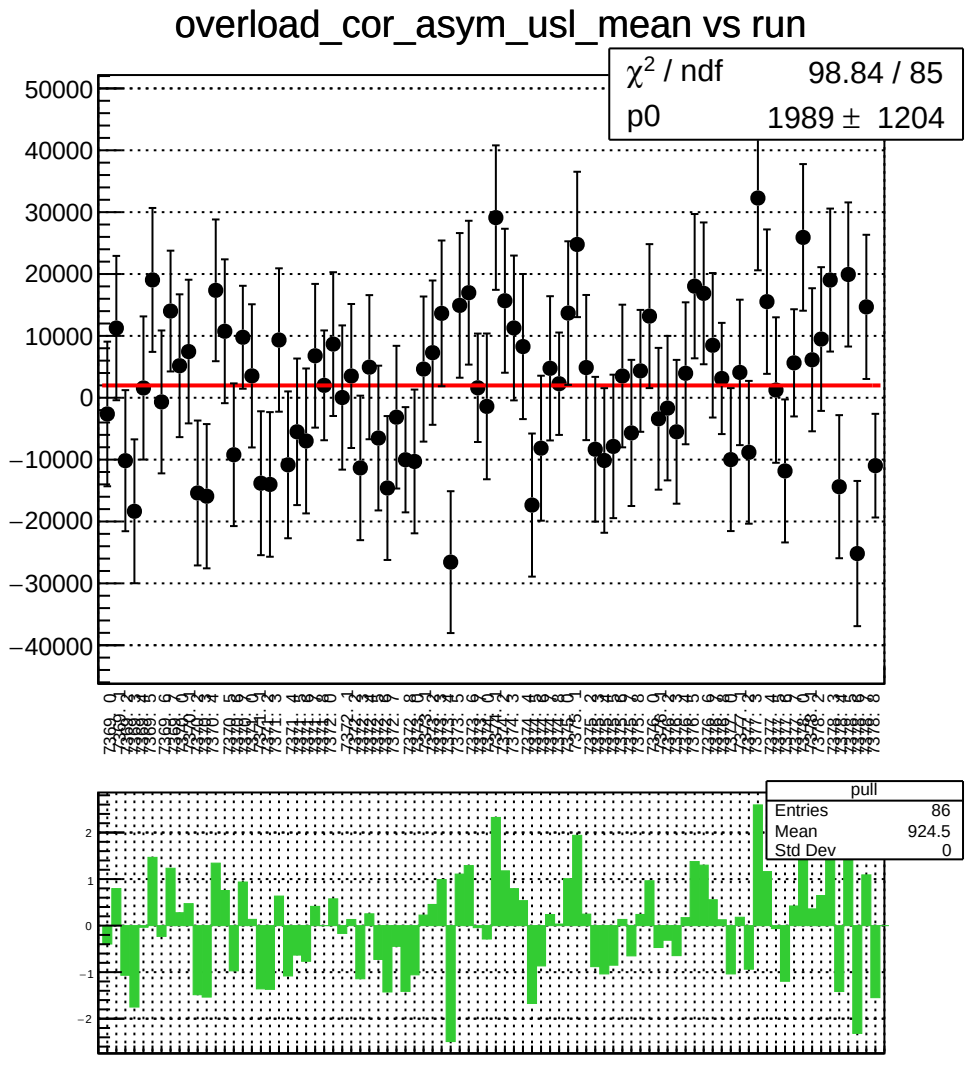

cor_asym_usl_mean vs run
χ² / ndf 97.43 / 85
p0 1996 ± 1205
pull
Entries 86
Mean 919.5
Std Dev 0

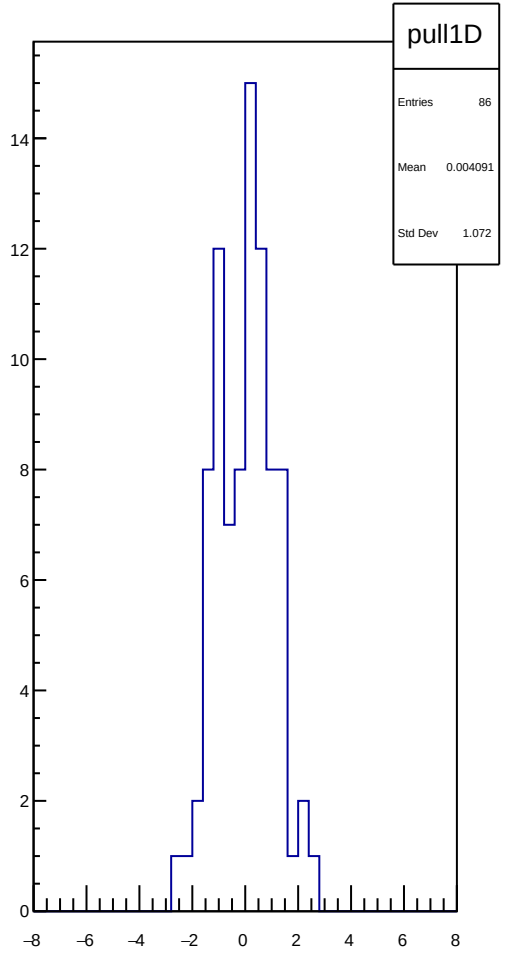

pull1D
Entries 86
Mean 0.003958
Std Dev 1.064

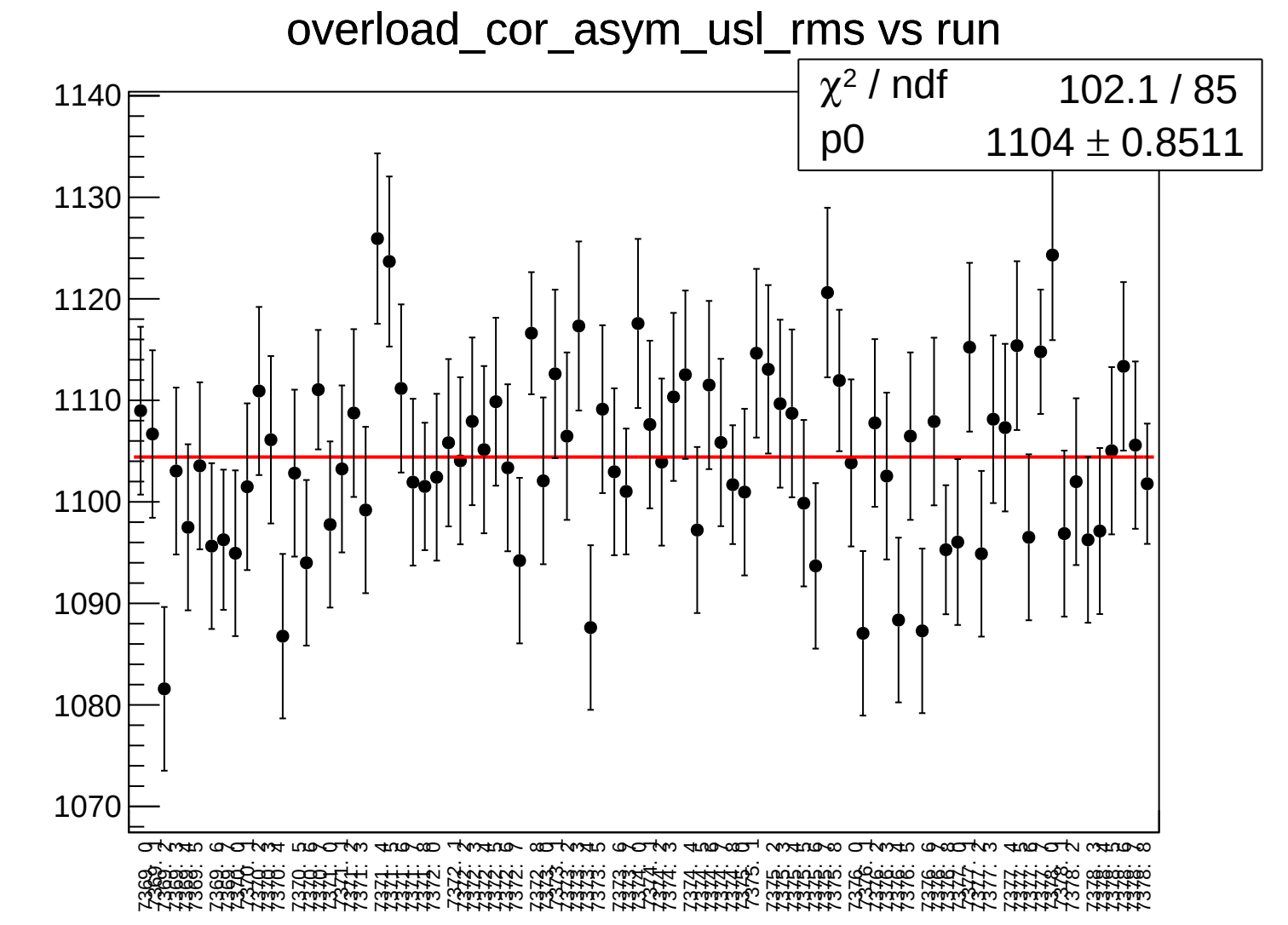

cor_asym_usl_rms vs run
χ^2 / ndf 105.3 / 85
p0 1105 ± 0.8519
1140
1130
1120
1110
1100
1090
1080
1070

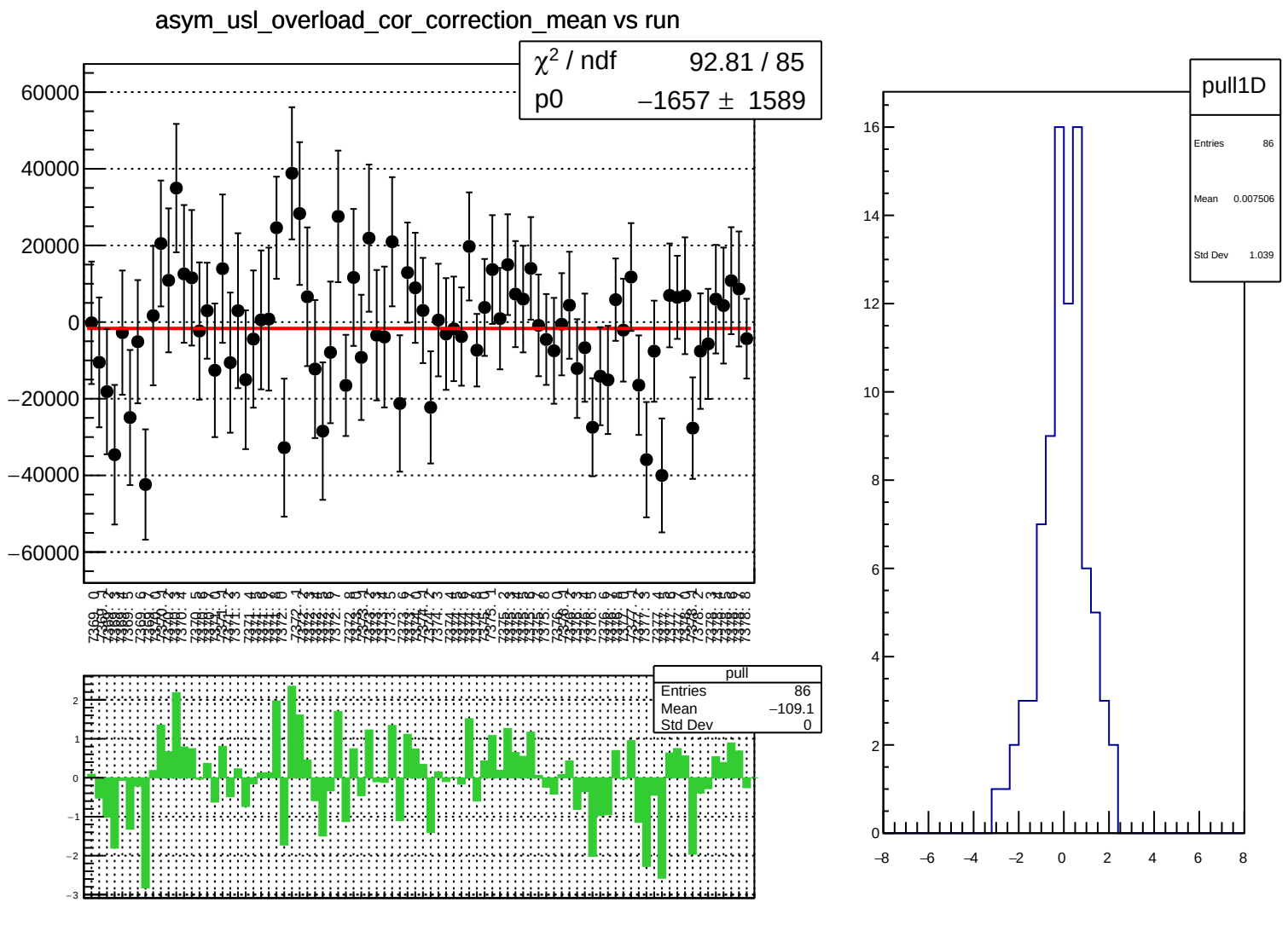

asym_usl_cor_correction_mean vs run
χ² / ndf 92.6 / 85
p0 −1662 ± 1588
pull
Entries 86
Mean −115.4
Std Dev 0
pull1D
Entries 86
Mean 0.0078
Std Dev 1.038

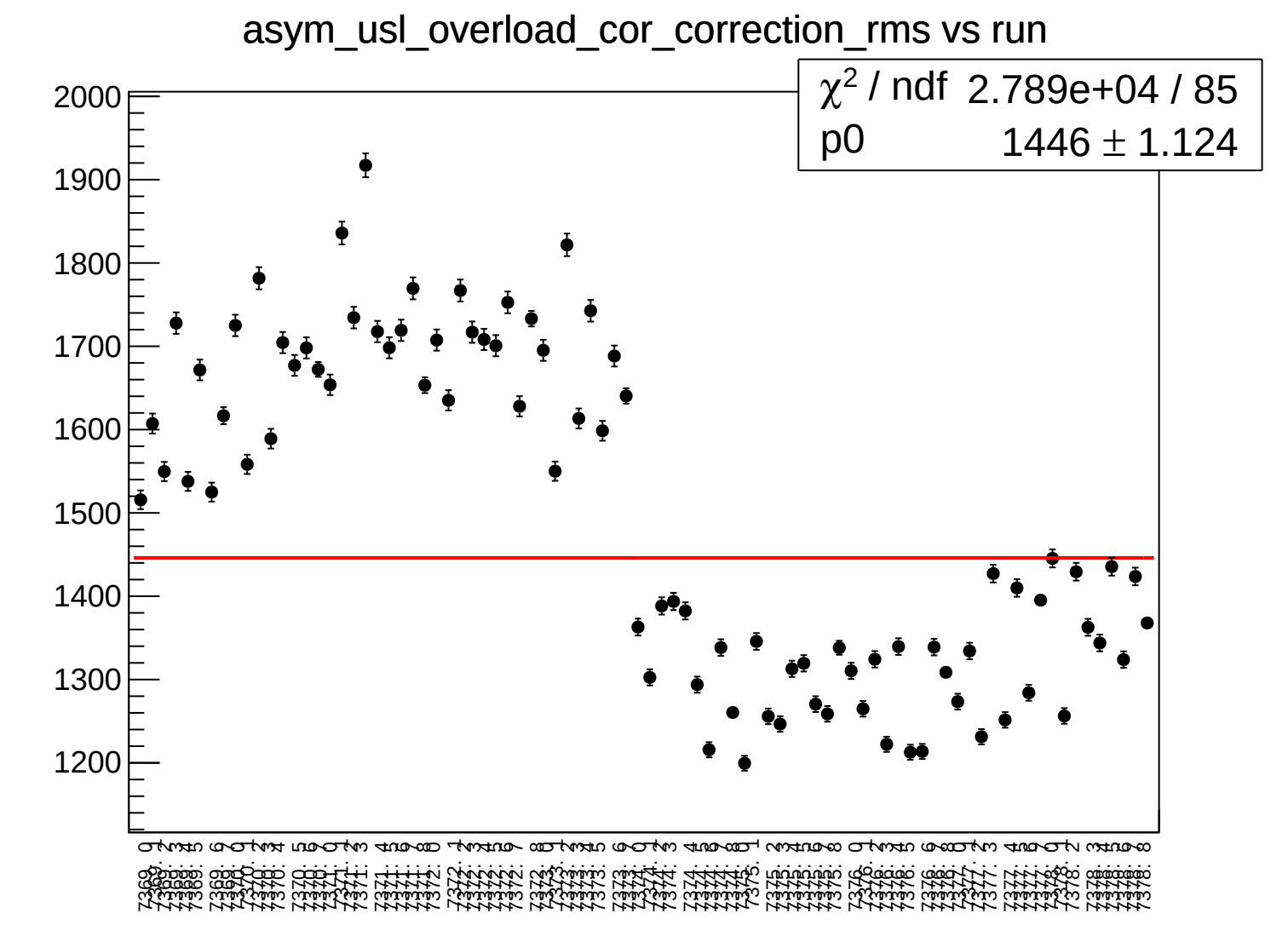

asym_usl_cor_correction_rms vs run
χ² / ndf 2.796e+04 / 85
p0 1445 ± 1.123
2000
1900
1800
1700
1600
1500
1400
1300
1200

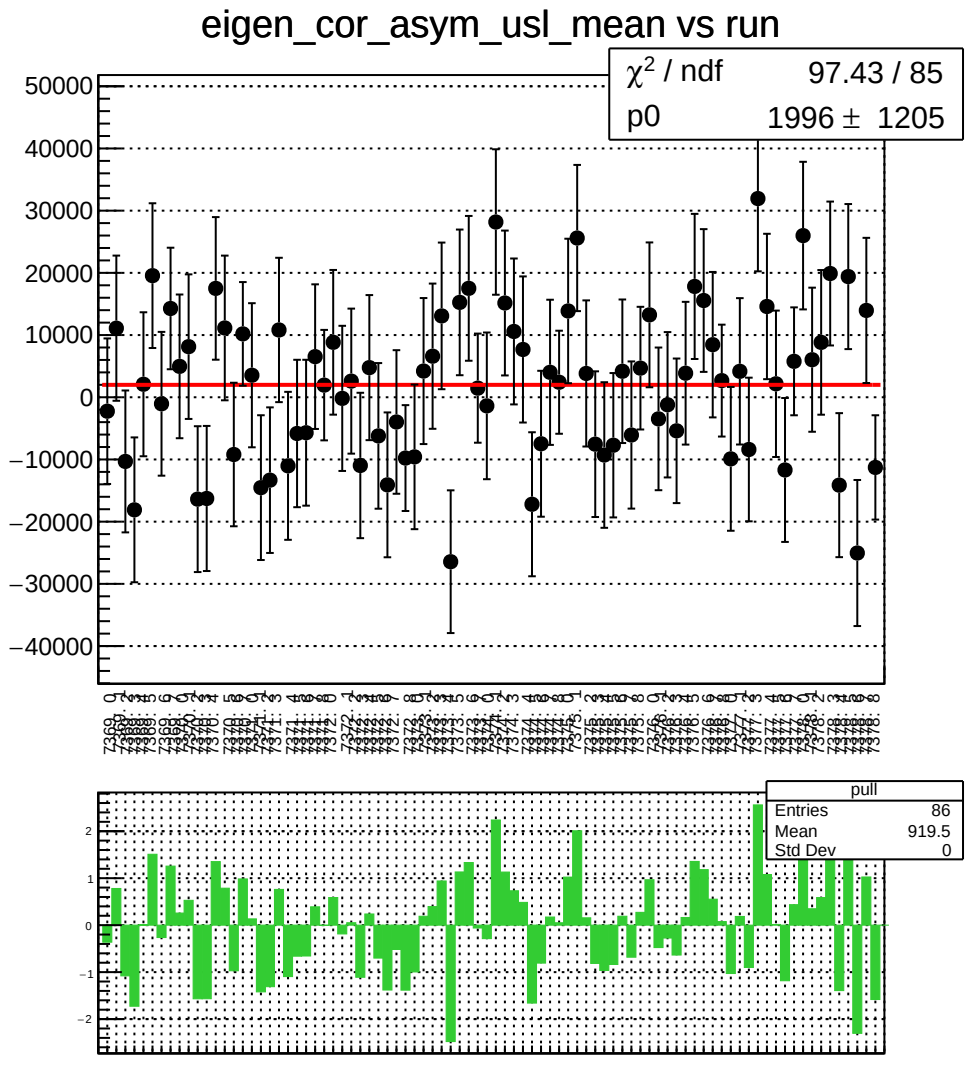

overload_cor_asym_usl_mean vs run
χ² / ndf 98.84 / 85
p0 1989 ± 1204
pull
Entries 86
Mean 924.5
Std Dev 0

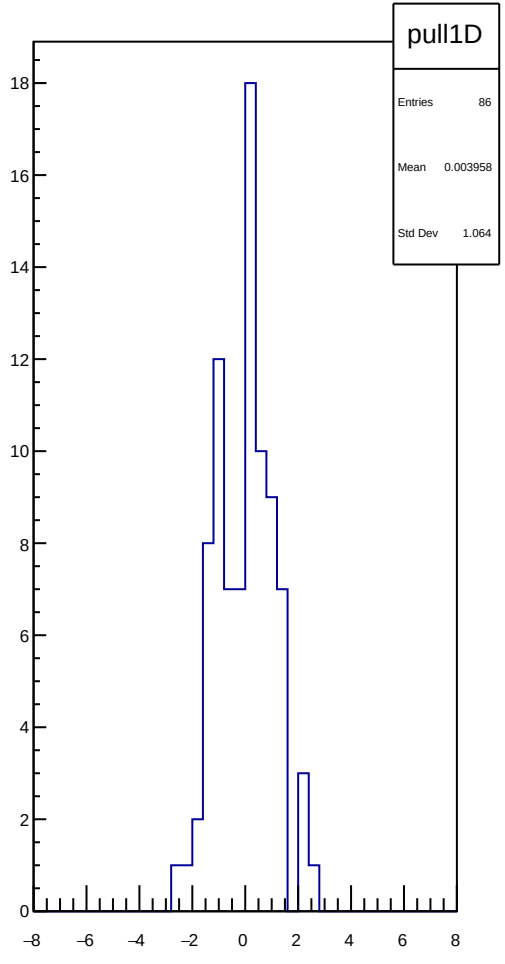

pull1D
Entries 86
Mean 0.004091
Std Dev 1.072

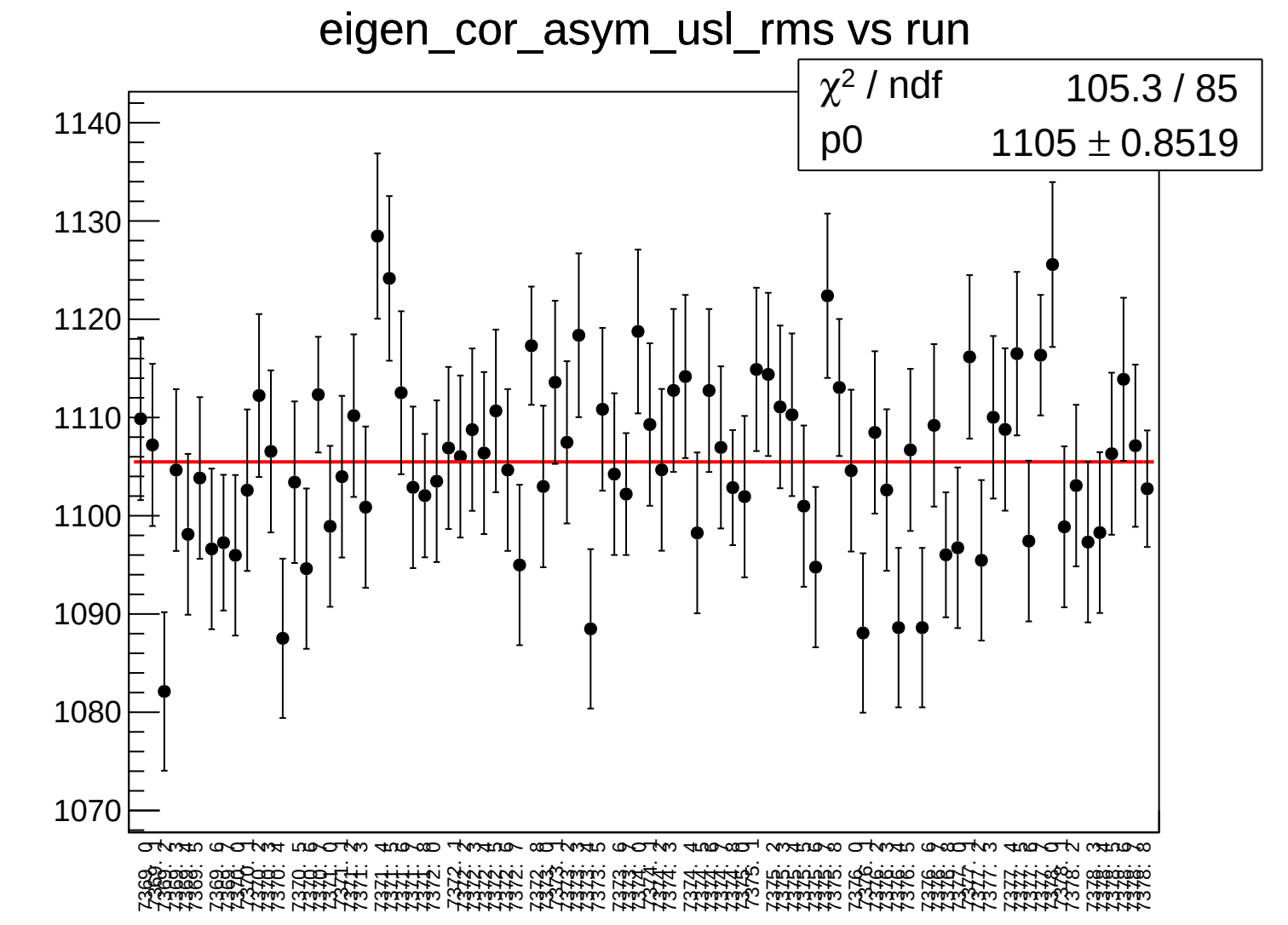

overload_cor_asym_usl_rms vs run
χ² / ndf 102.1 / 85
p0 1104 ± 0.8511
1140
1130
1120
1110
1100
1090
1080
1070

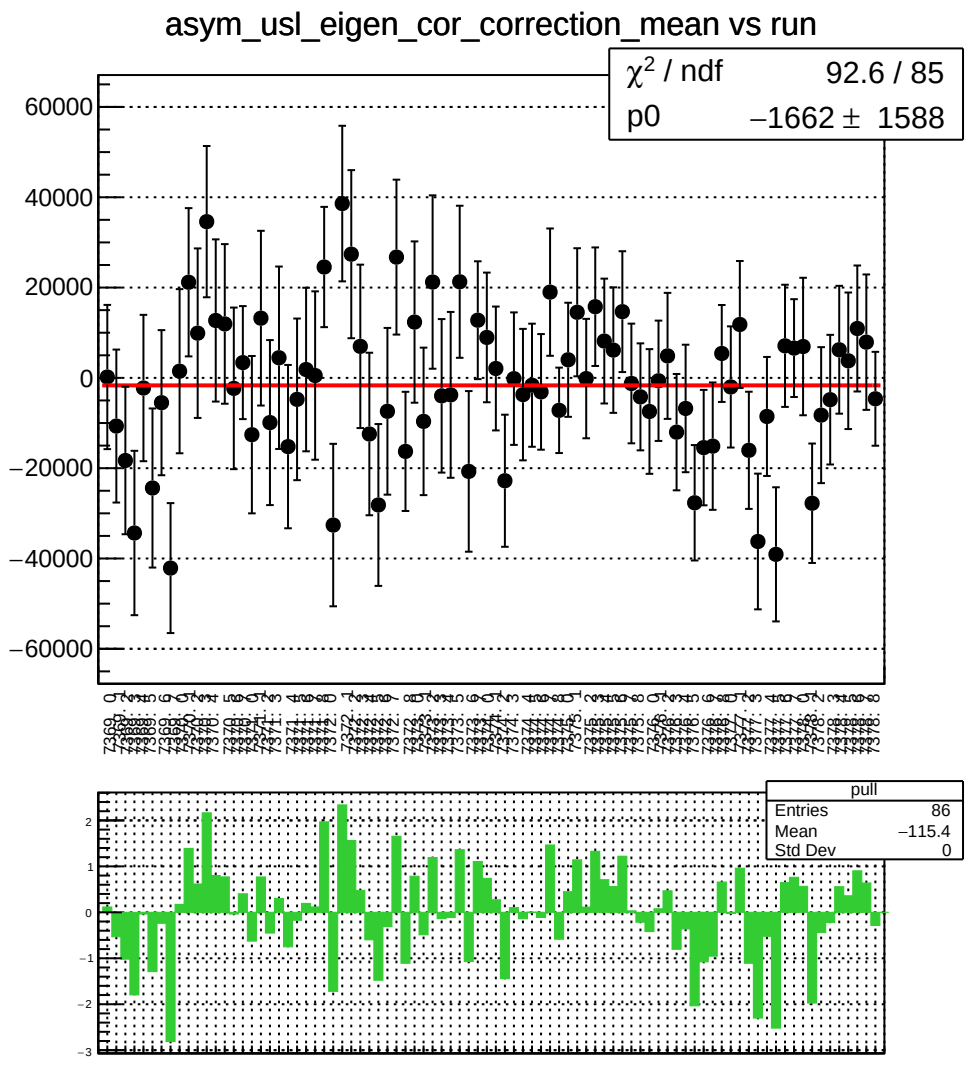

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 92.81 / 85
p0 −1657 ± 1589
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −109.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.007506
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

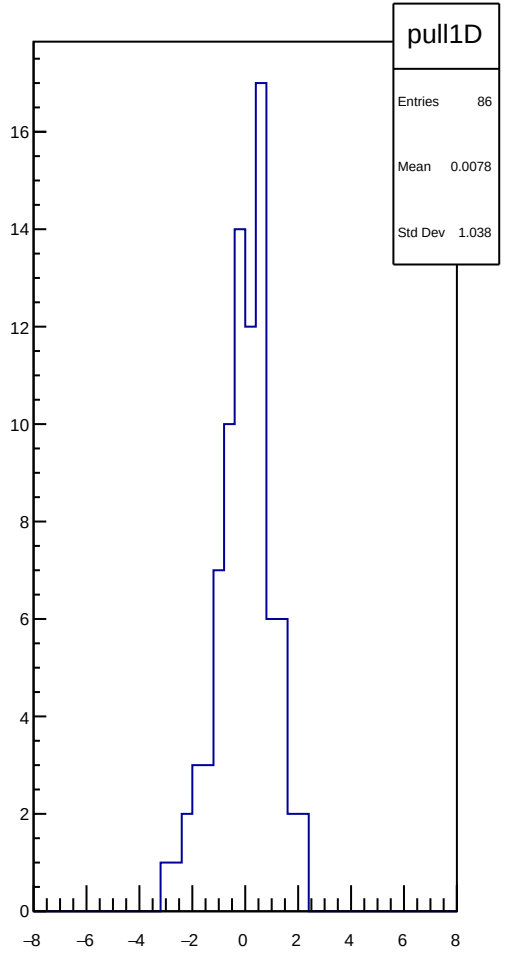

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 2.789e+04 / 85
p0 1446 ± 1.124
2000
1900
1800
1700
1600
1500
1400
1300
1200

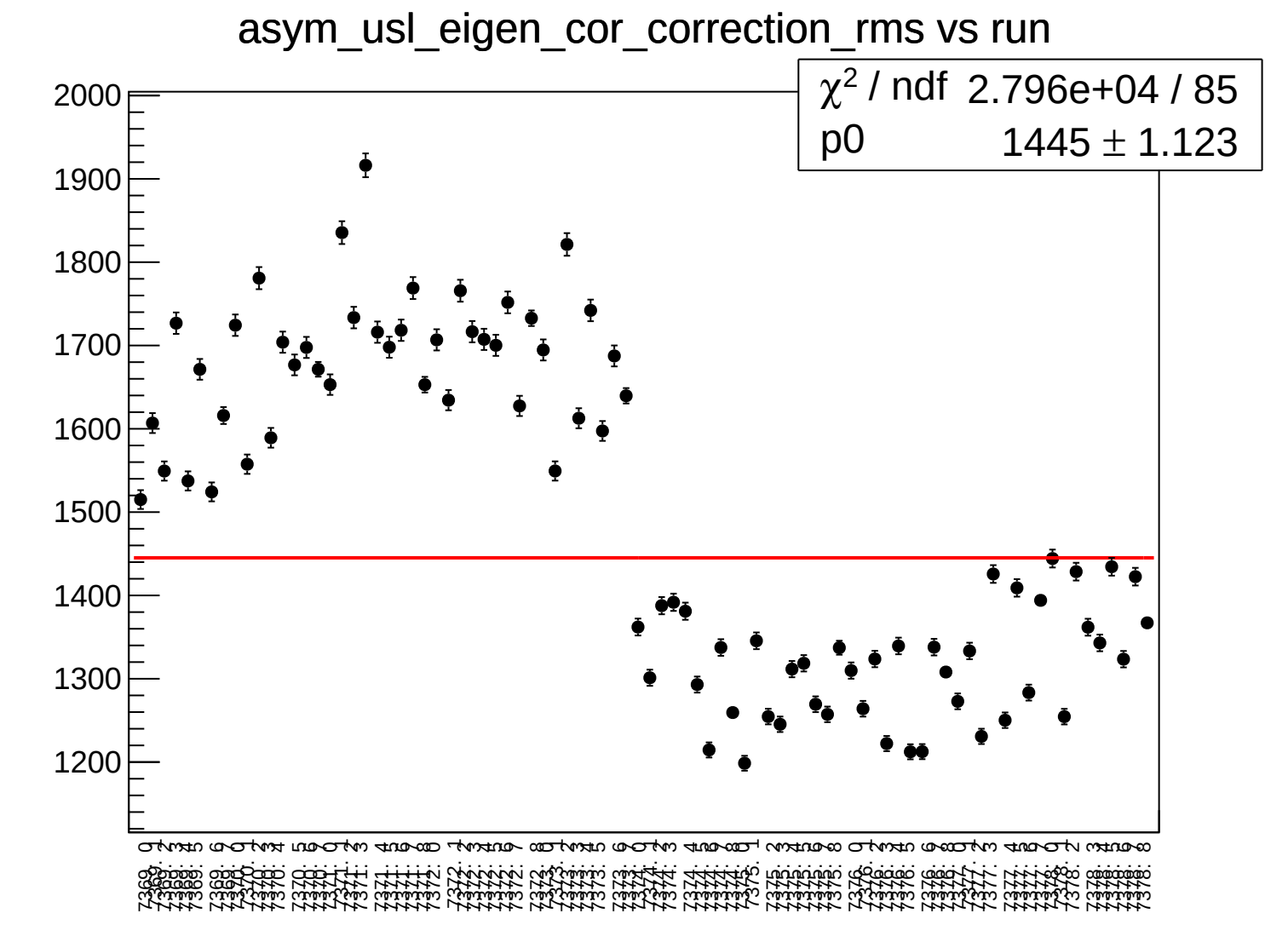

eigen_cor_asym_usl_mean vs run
χ² / ndf 97.43 / 85
p0 1996 ± 1205
pull
Entries 86
Mean 919.5
Std Dev 0

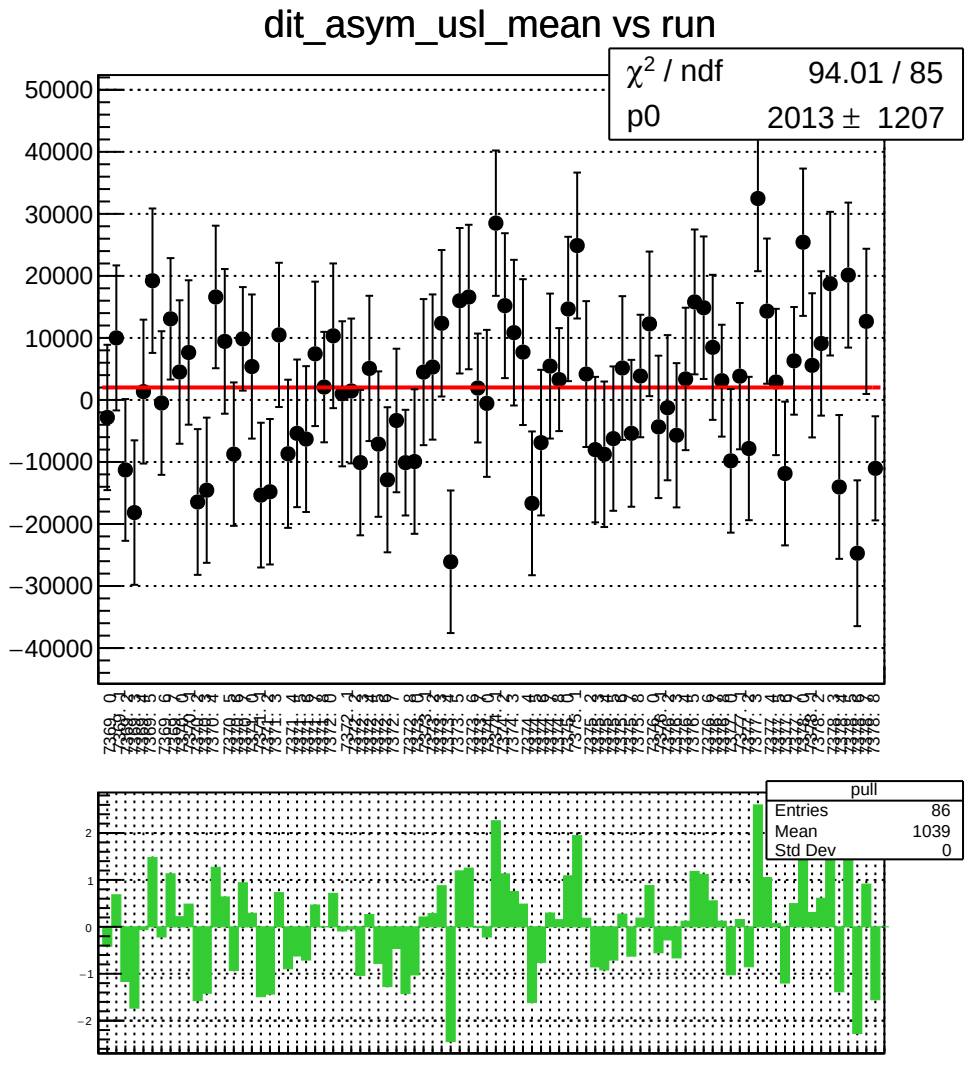

pull1D
Entries 86
Mean 0.003958
Std Dev 1.064

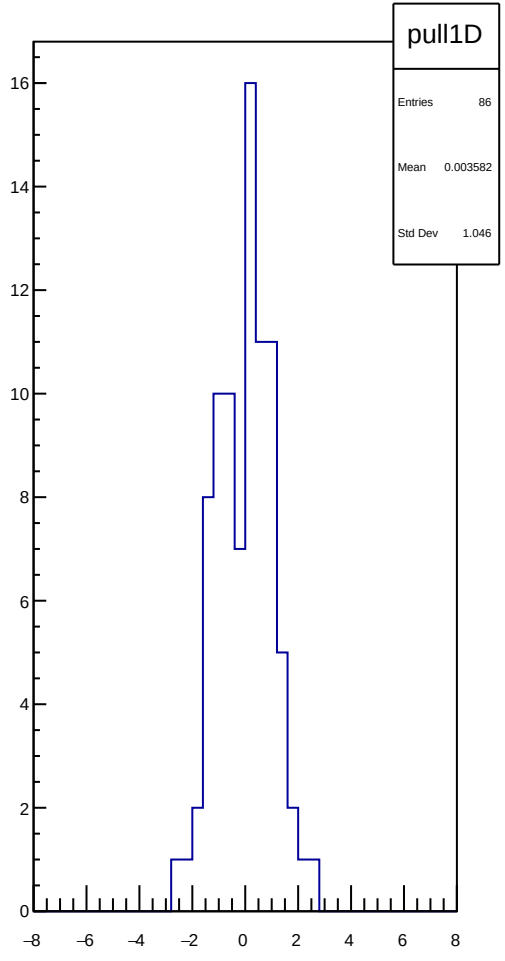

eigen_cor_asym_usl_rms vs run
χ² / ndf 105.3 / 85
p0 1105 ± 0.8519
1140
1130
1120
1110
1100
1090
1080
1070

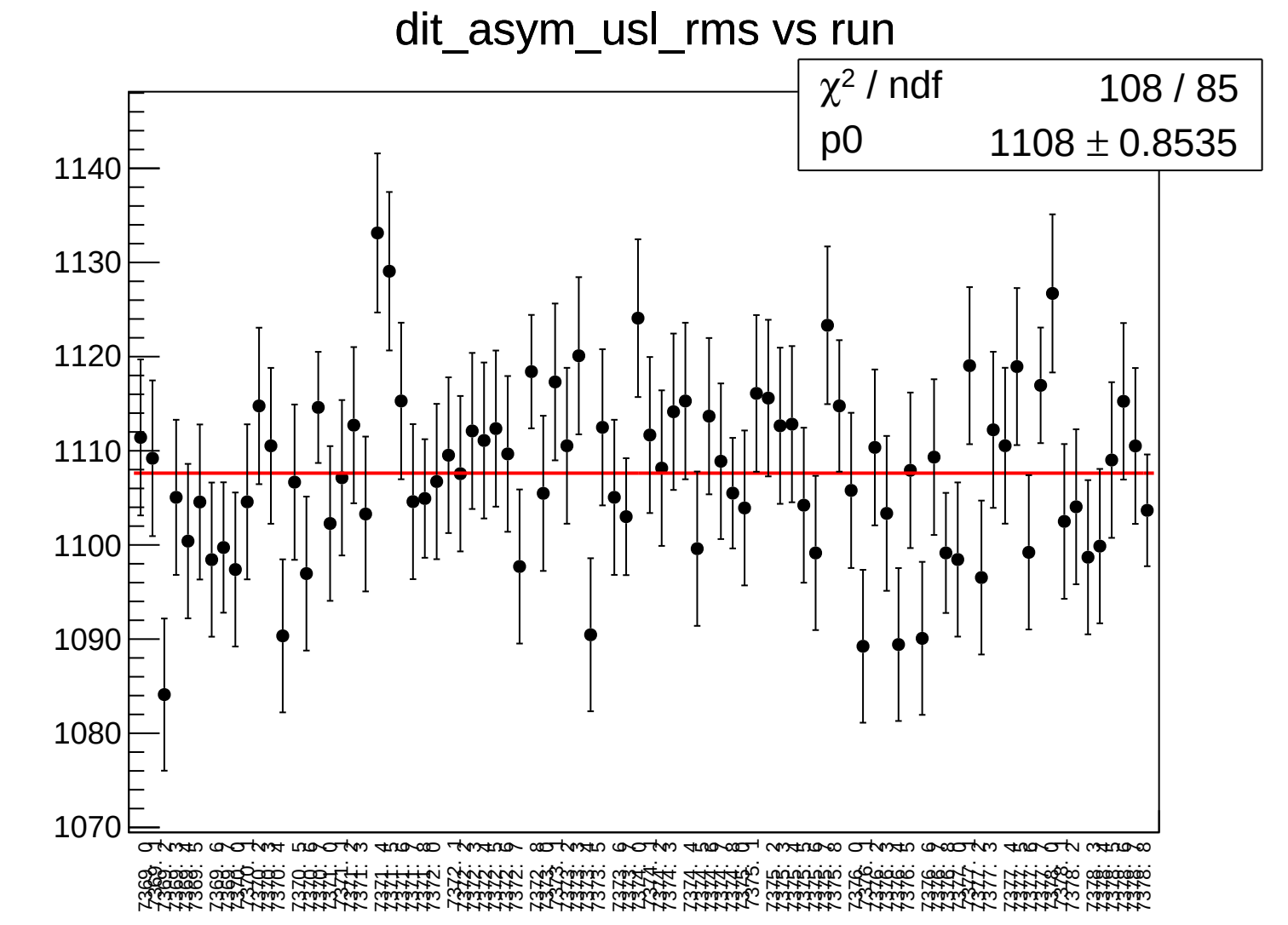

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 92.6 / 85
p0 −1662 ± 1588
pull
Entries 86
Mean −115.4
Std Dev 0

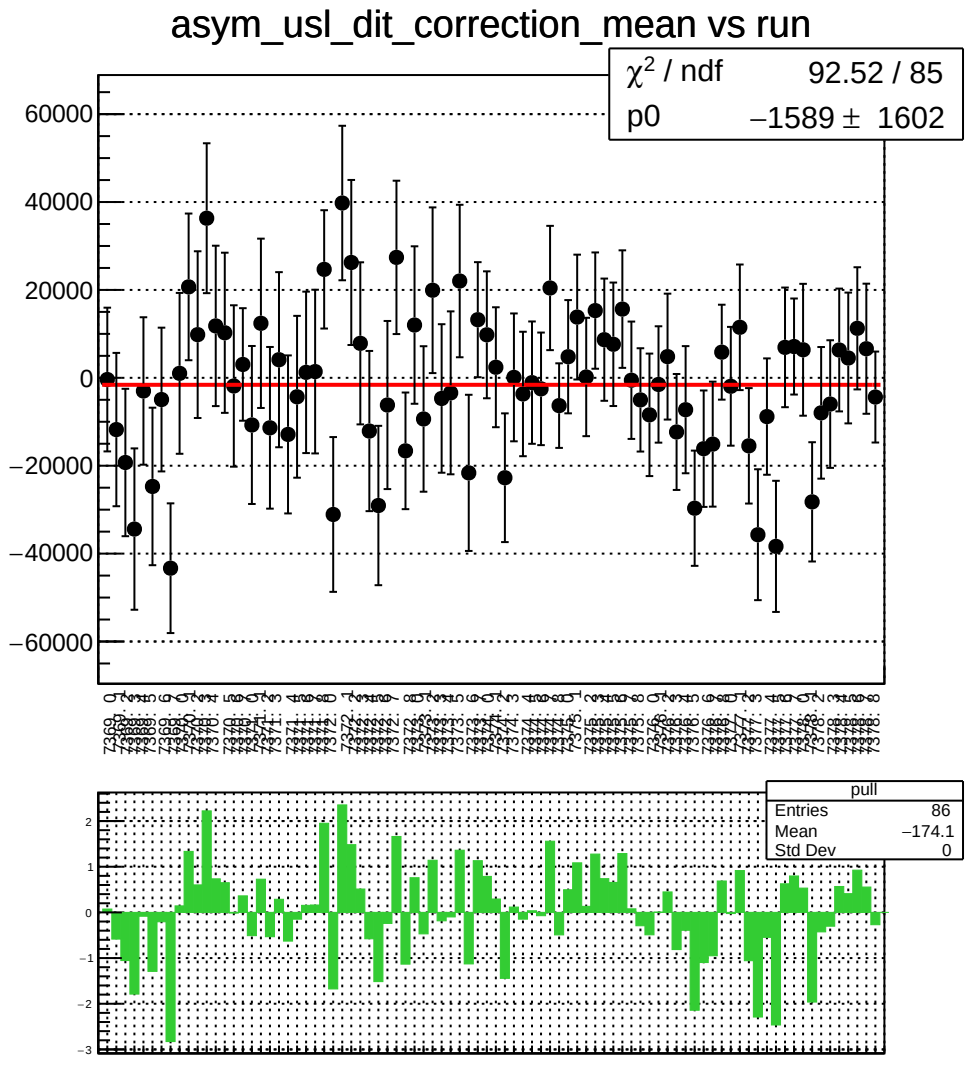

pull1D
Entries 86
Mean 0.0078
Std Dev 1.038

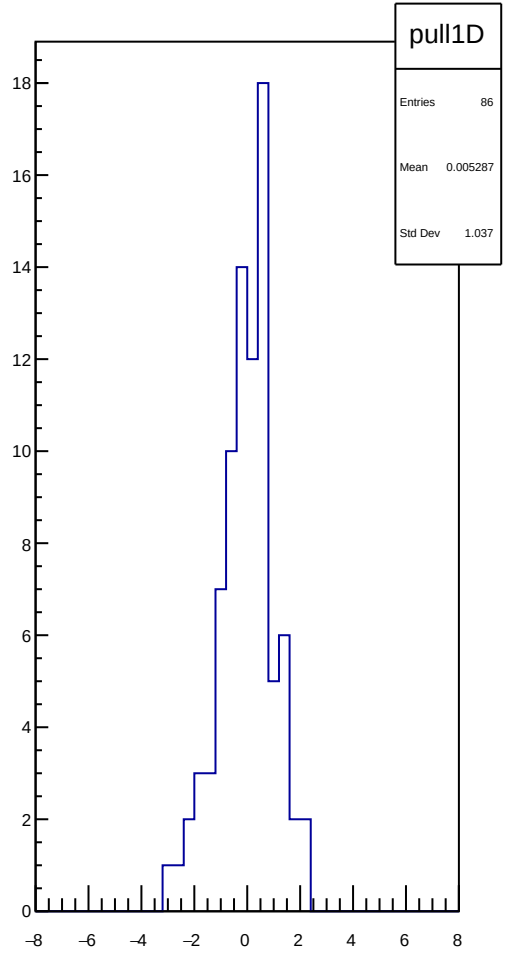

asym_usl_eigen_cor_correction_rms vs run
χ^2 / ndf 2.796e+04 / 85
p0 1445 ± 1.123
2000
1900
1800
1700
1600
1500
1400
1300
1200

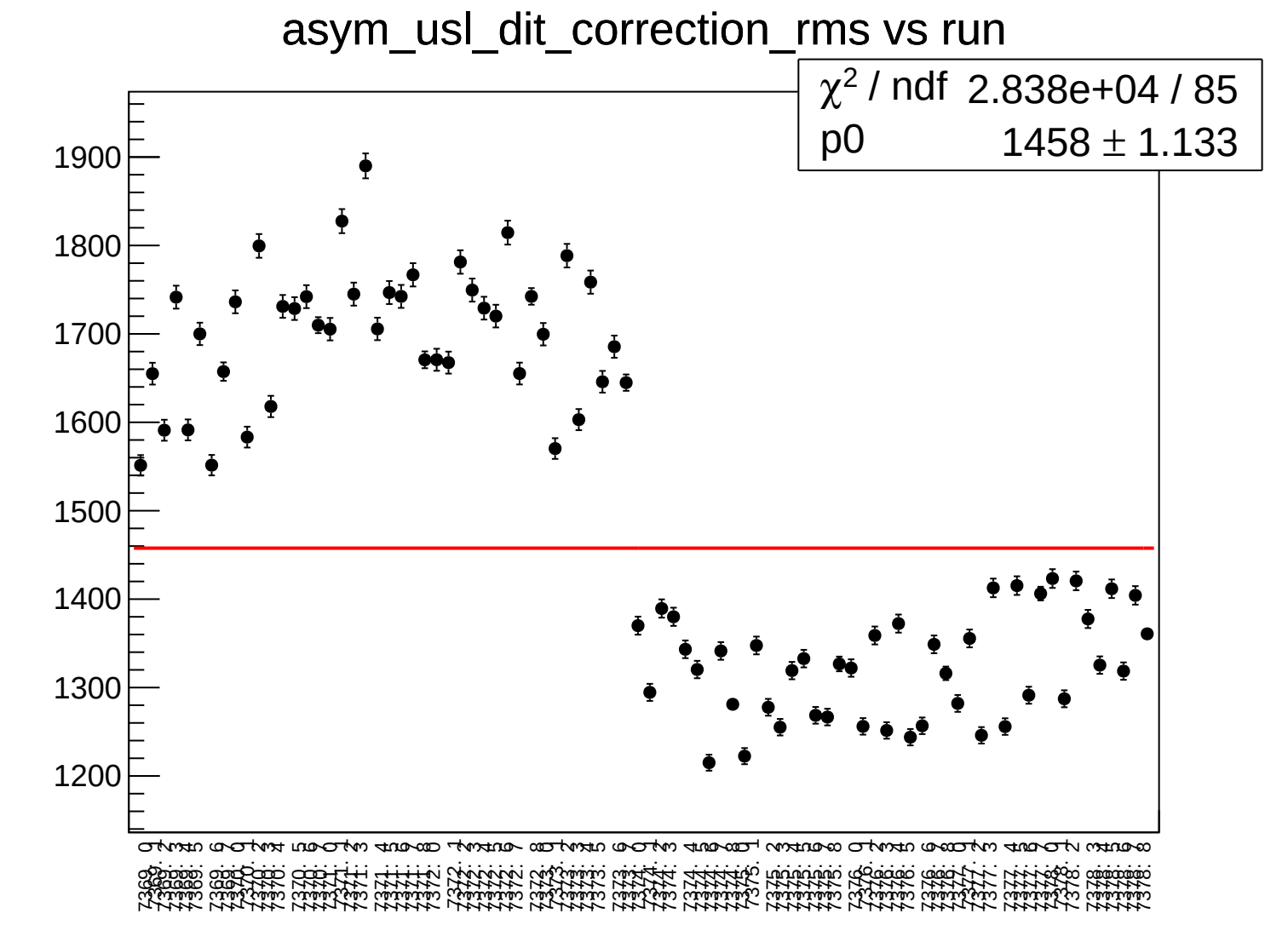

dit_asym_usl_mean vs run
χ² / ndf 94.01 / 85
p0 2013 ± 1207
pull
Entries 86
Mean 1039
Std Dev 0

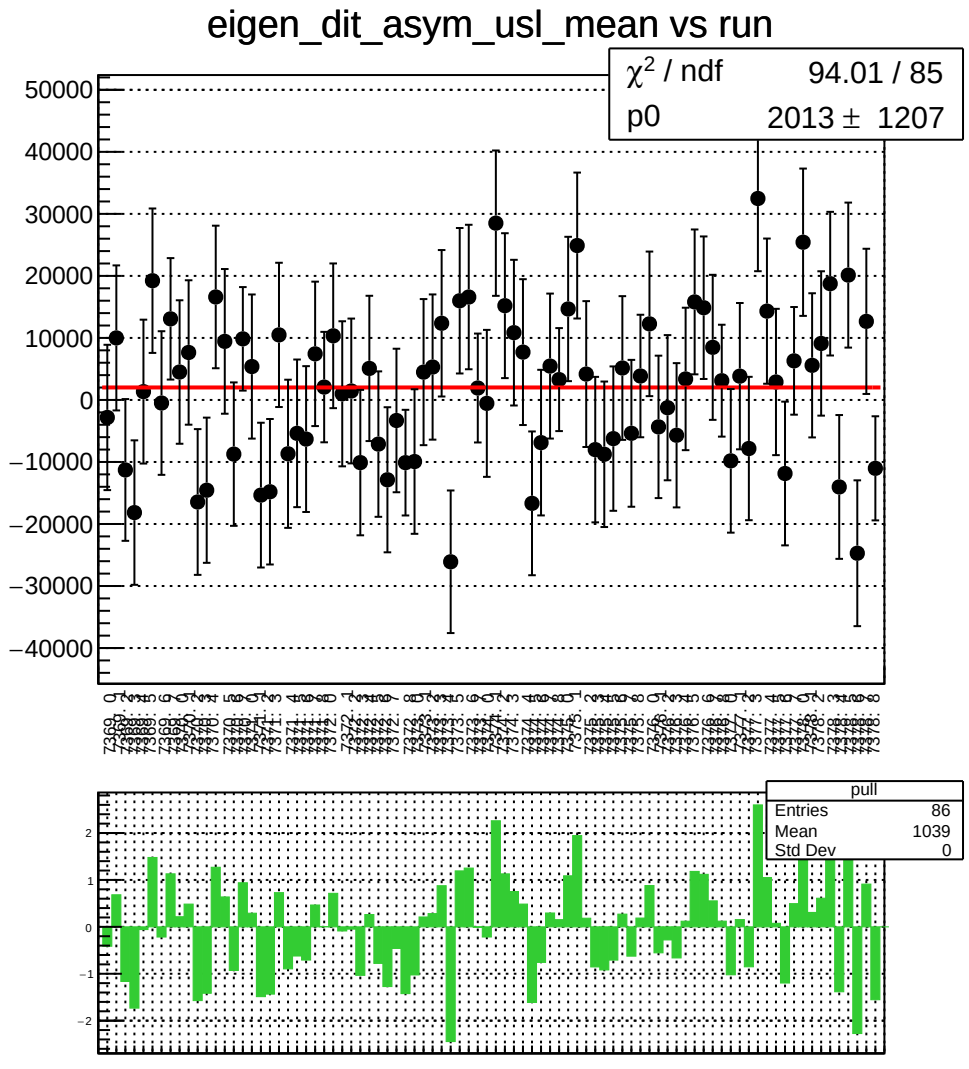

pull1D
Entries 86
Mean 0.003582
Std Dev 1.046

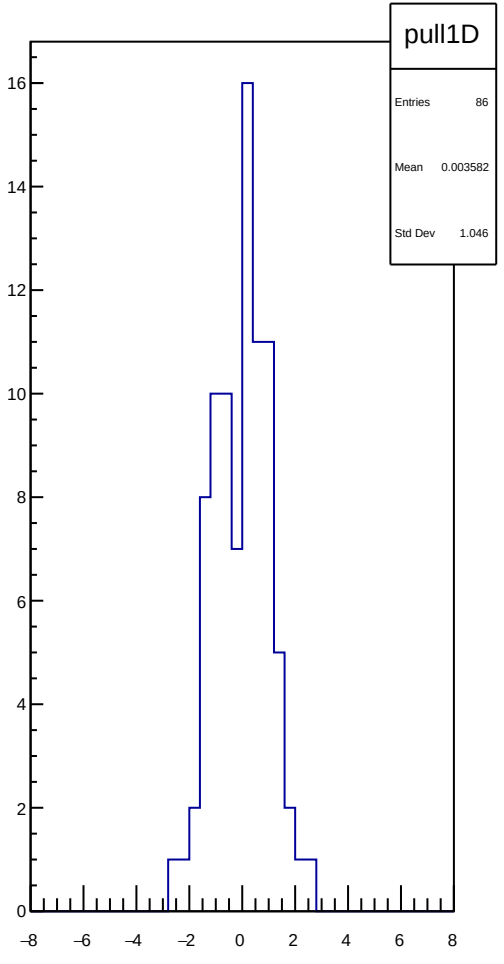

dit_asym_usl_rms vs run
χ² / ndf 108 / 85
p0 1108 ± 0.8535
1140
1130
1120
1110
1100
1090
1080
1070

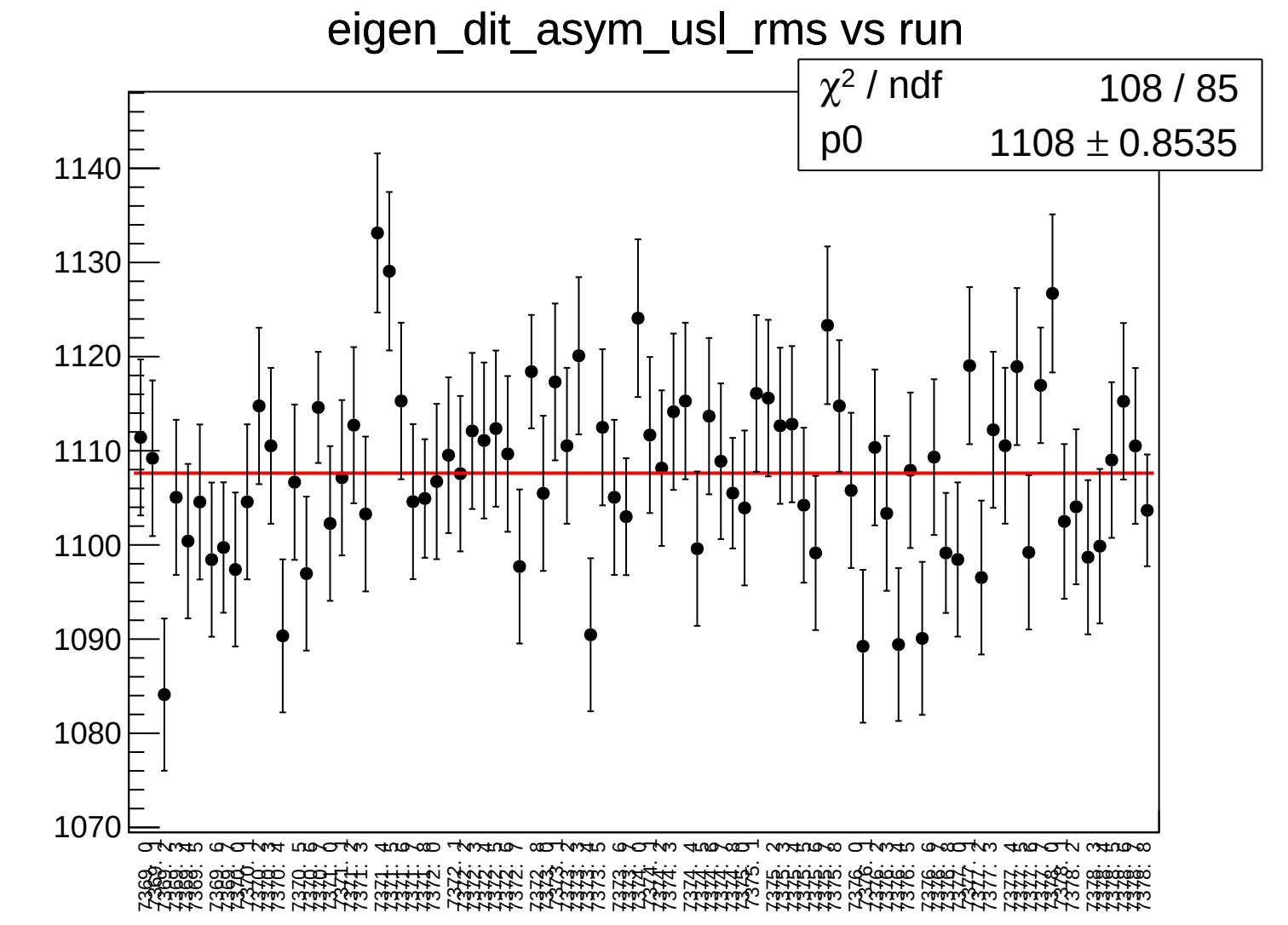

asym_usl_dit_correction_mean vs run
χ² / ndf 92.52 / 85
p0 −1589 ± 1602
pull
Entries 86
Mean −174.1
Std Dev 0

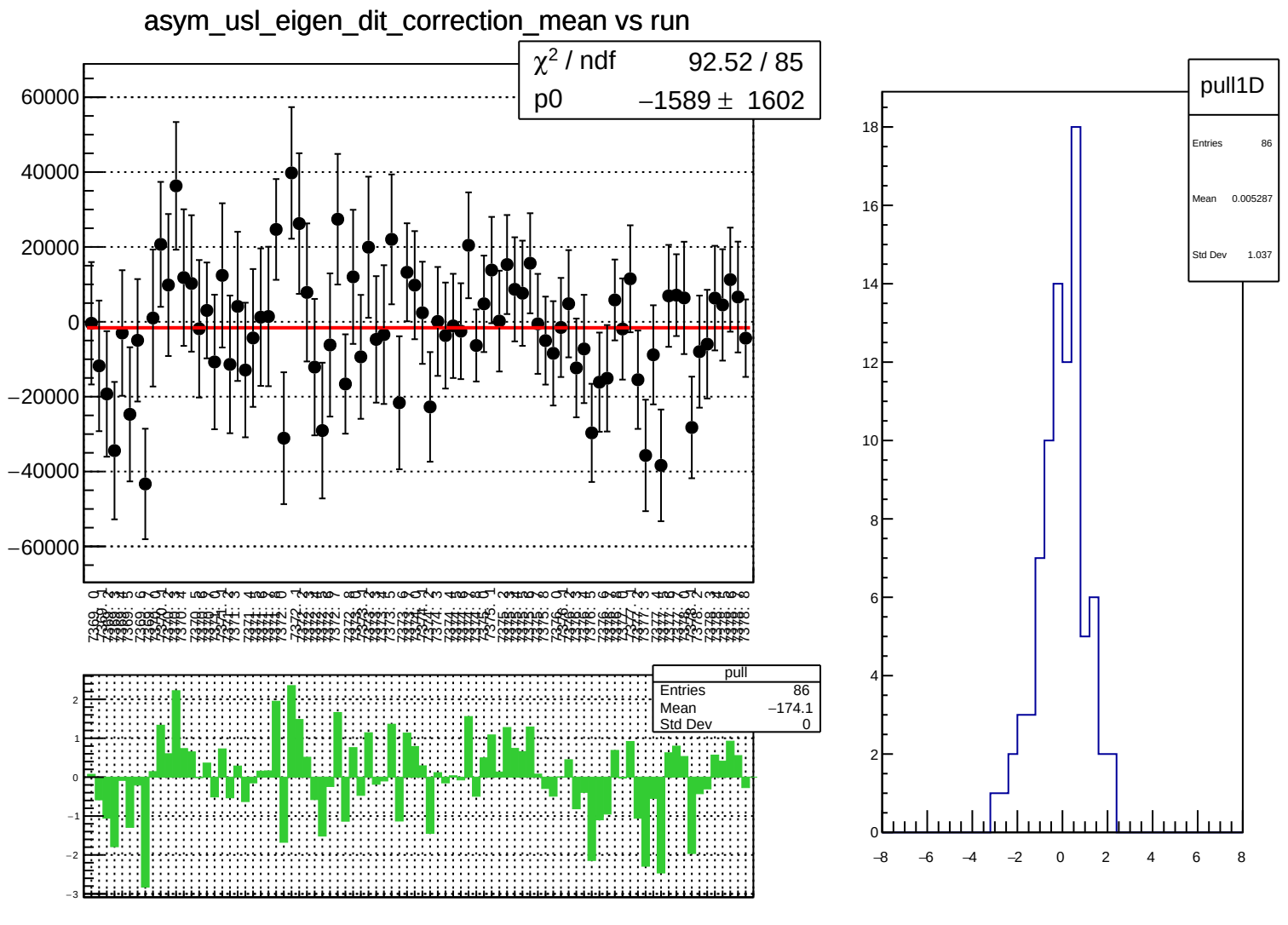

pull1D
Entries 86
Mean 0.005287
Std Dev 1.037

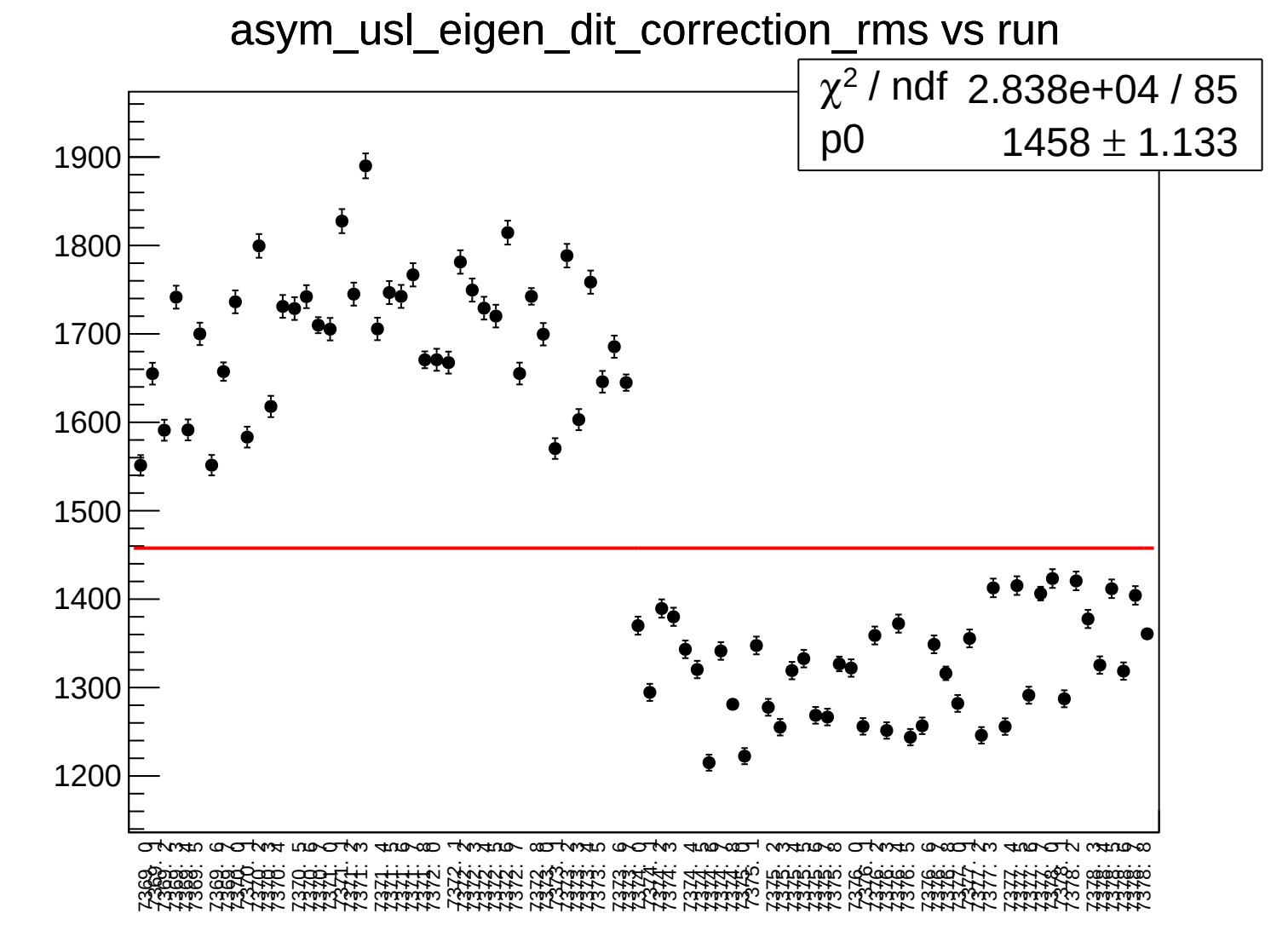

asym_usl_dit_correction_rms vs run
χ² / ndf 2.838e+04 / 85
p0 1458 ± 1.133
1900
1800
1700
1600
1500
1400
1300
1200

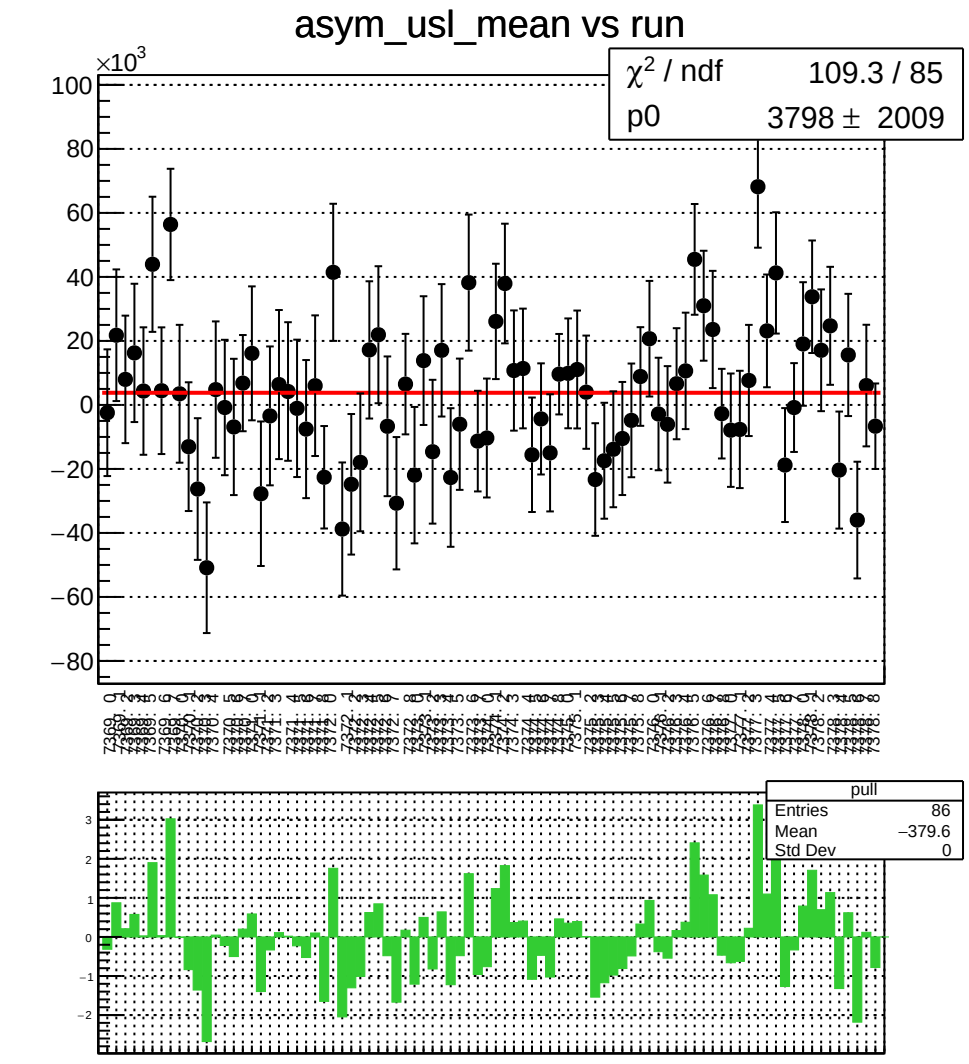

eigen_dit_asym_usl_mean vs run
χ² / ndf 94.01 / 85
p0 2013 ± 1207
pull
Entries 86
Mean 1039
Std Dev 0

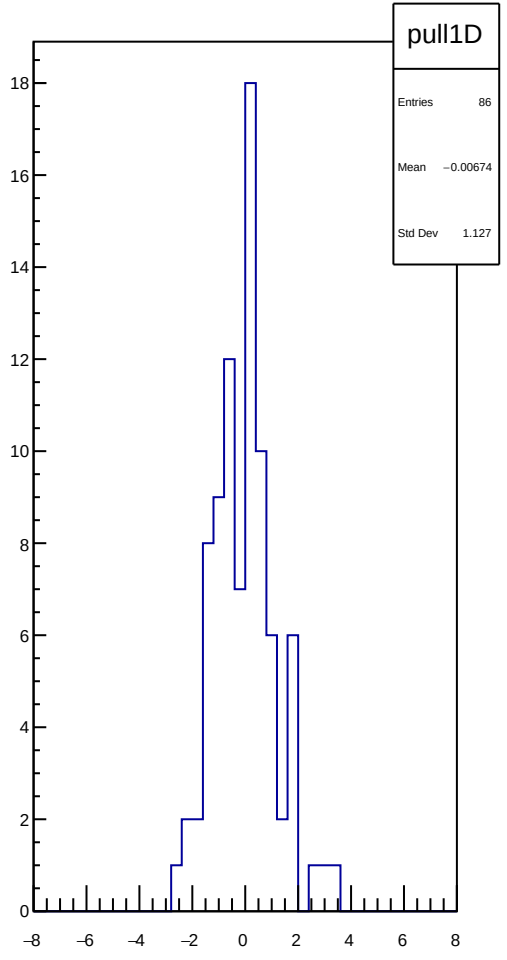

pull1D
Entries 86
Mean 0.003582
Std Dev 1.046

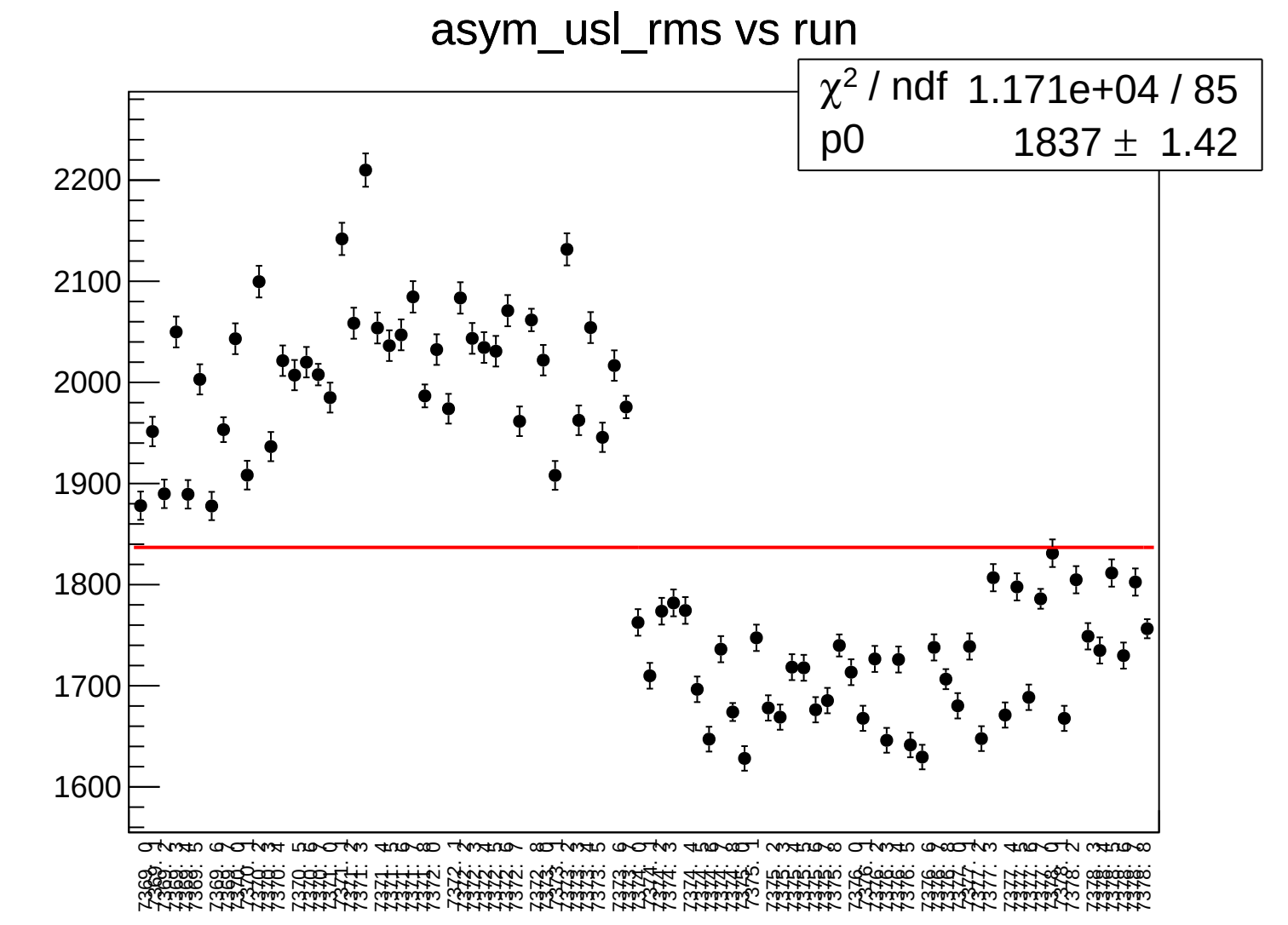

eigen_dit_asym_usl_rms vs run
χ² / ndf 108 / 85
p0 1108 ± 0.8535
1140
1130
1120
1110
1100
1090
1080
1070

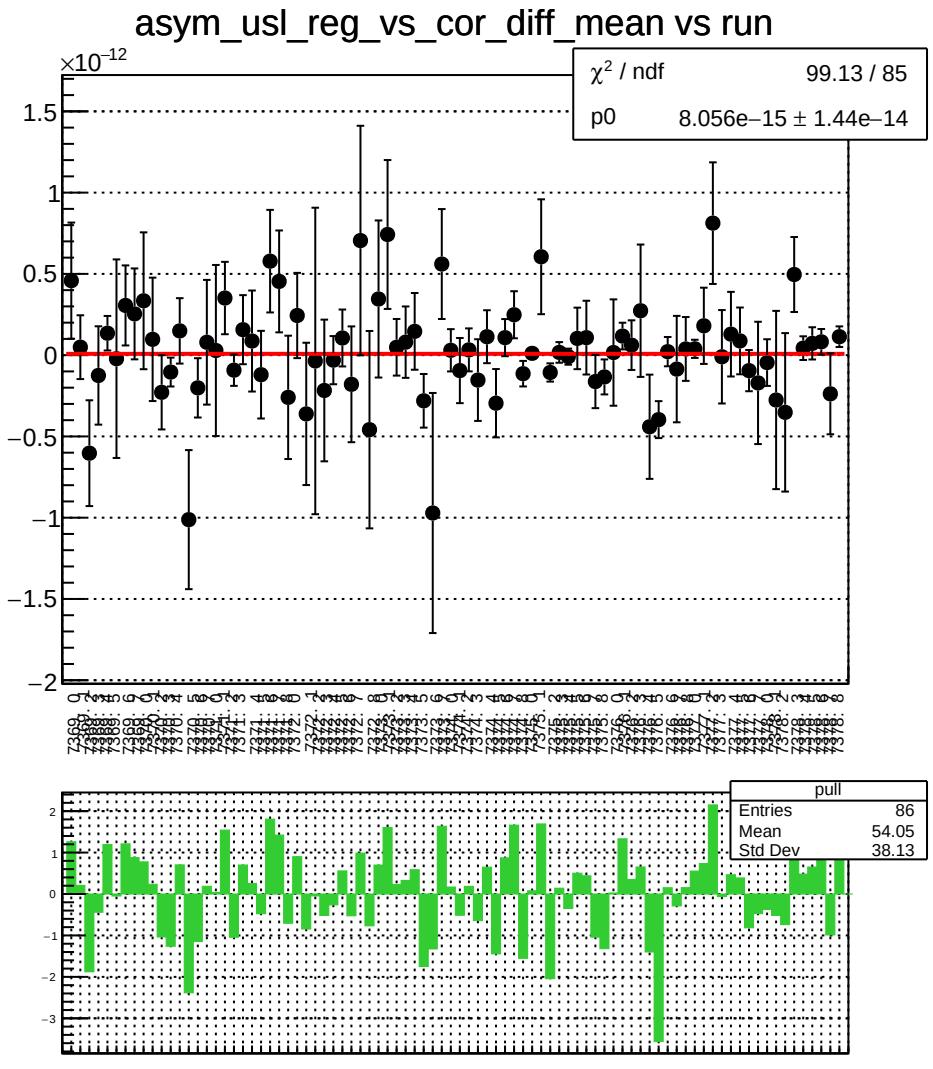

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 92.52 / 85
p0 −1589 ± 1602
pull
Entries 86
Mean −174.1
Std Dev 0
pull1D
Entries 86
Mean 0.005287
Std Dev 1.037

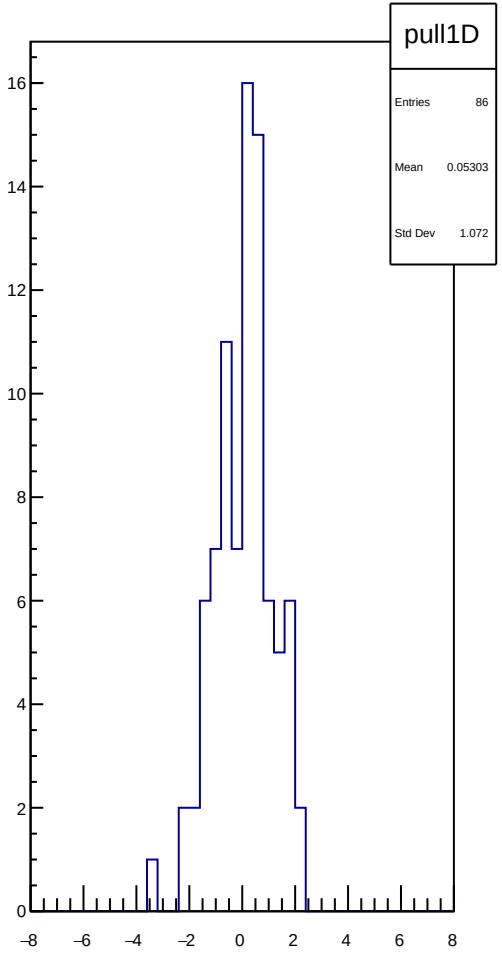

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 2.838e+04 / 85
p0 1458 ± 1.133
1900
1800
1700
1600
1500
1400
1300
1200

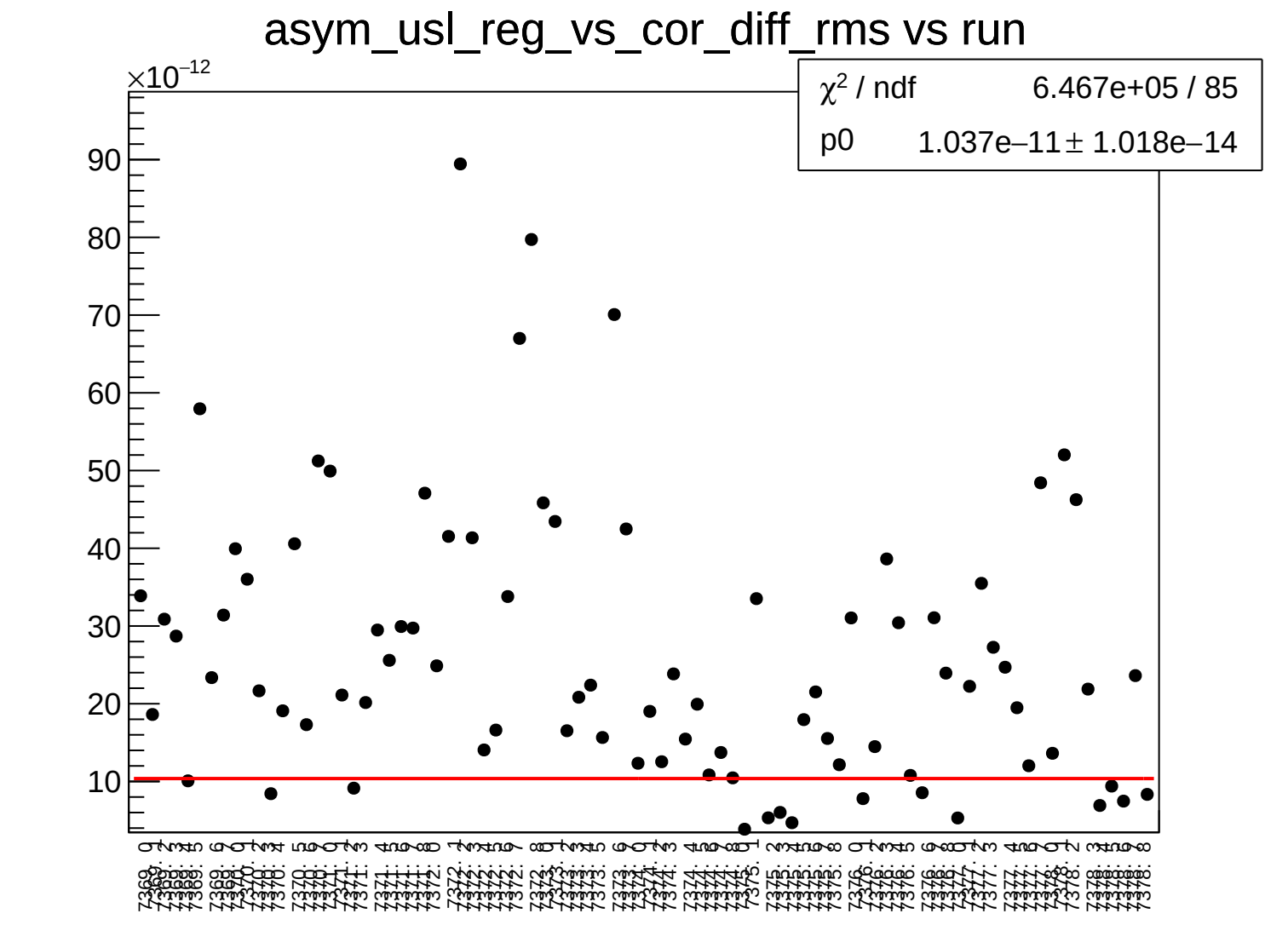

asym_usl_mean vs run
×10^3
χ² / ndf 109.3 / 85
p0 3798 ± 2009
pull
Entries 86
Mean −379.6
Std Dev 0

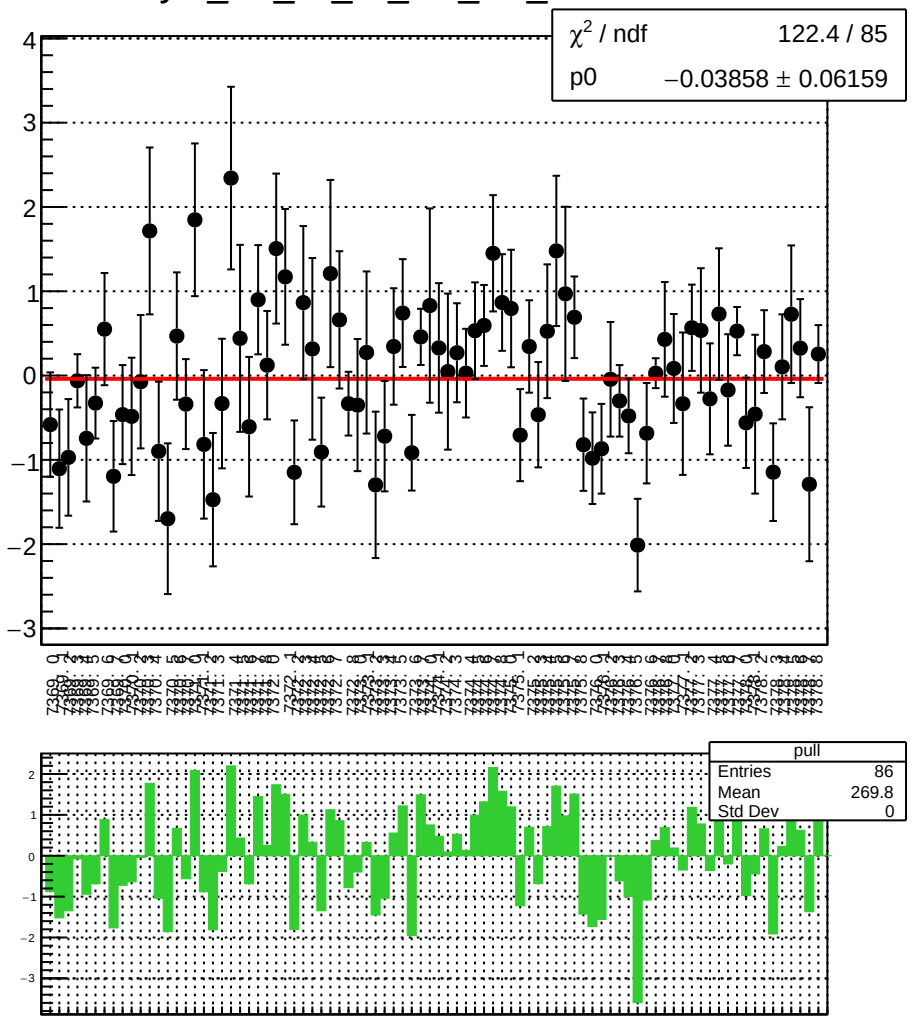

pull1D
Entries 86
Mean −0.00674
Std Dev 1.127

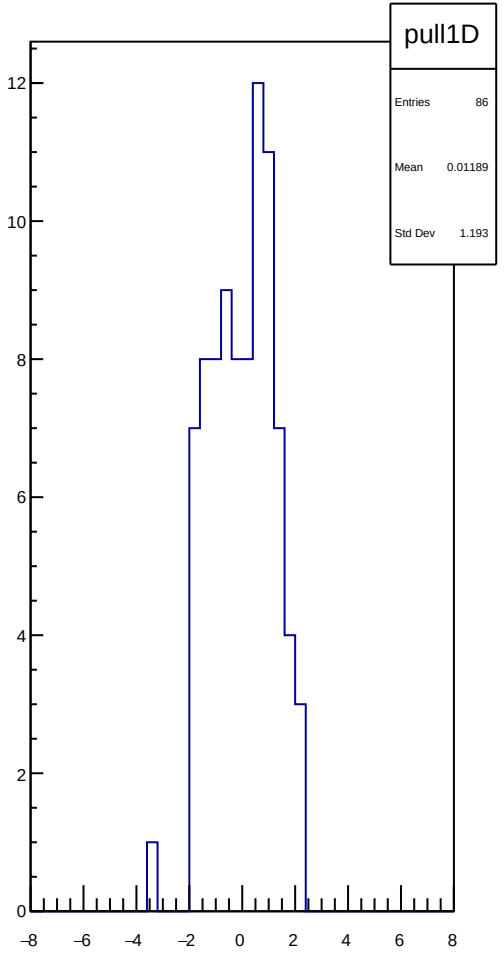

asym_usl_rms vs run
χ² / ndf 1.171e+04 / 85
p0 1837 ± 1.42
2200
2100
2000
1900
1800
1700
1600

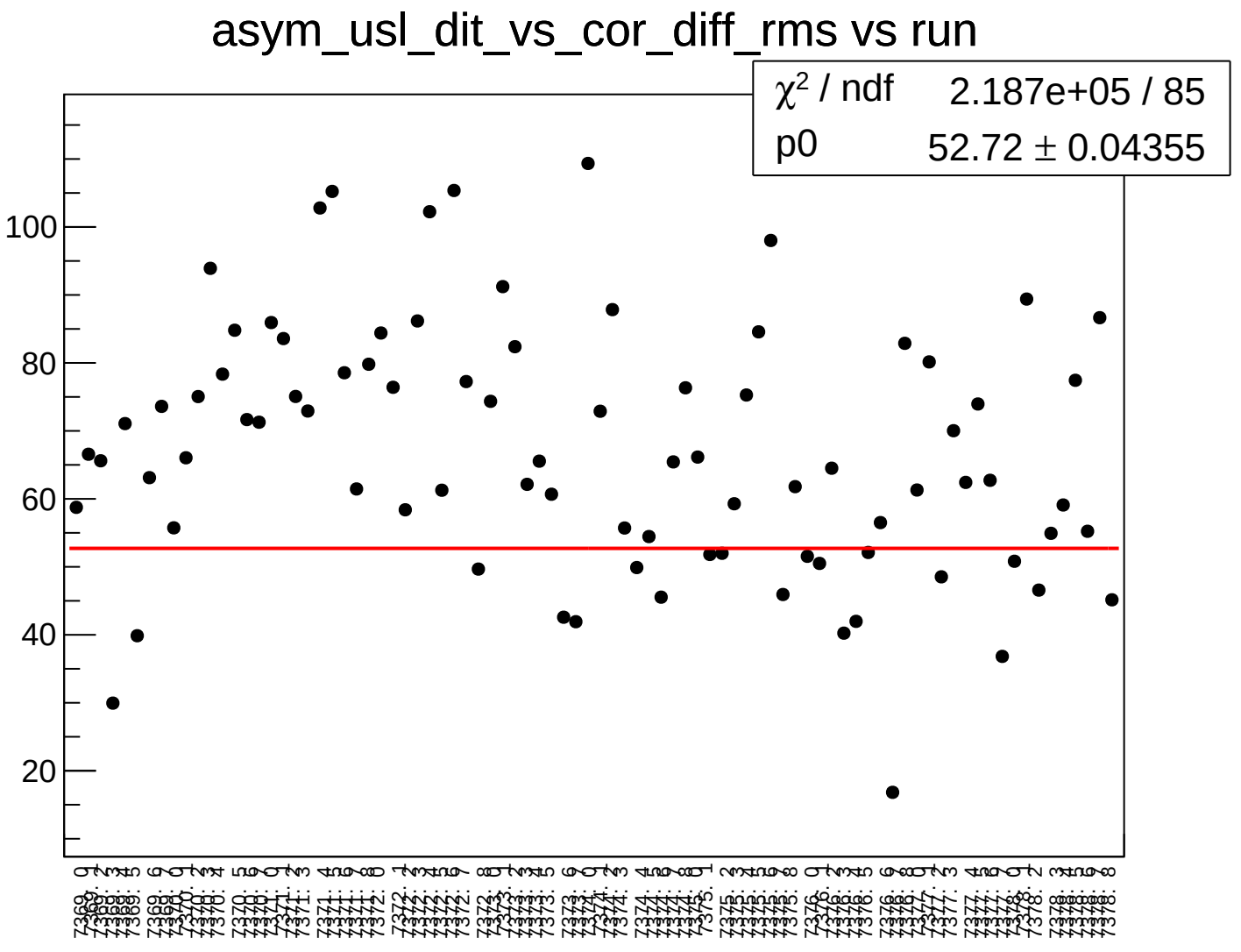

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.13 / 85
p0 8.056e−15 ± 1.44e−14
pull
Entries 86
Mean 54.05
Std Dev 38.13

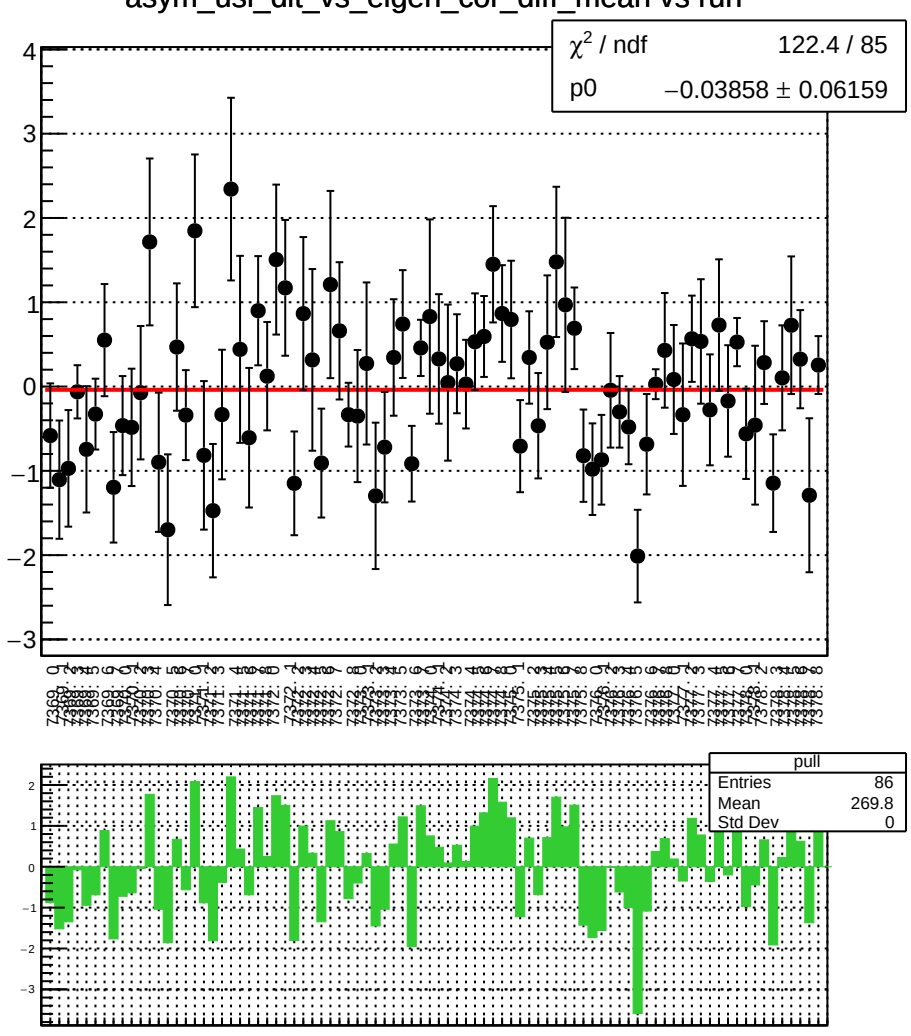

pull1D
Entries 86
Mean 0.05303
Std Dev 1.072

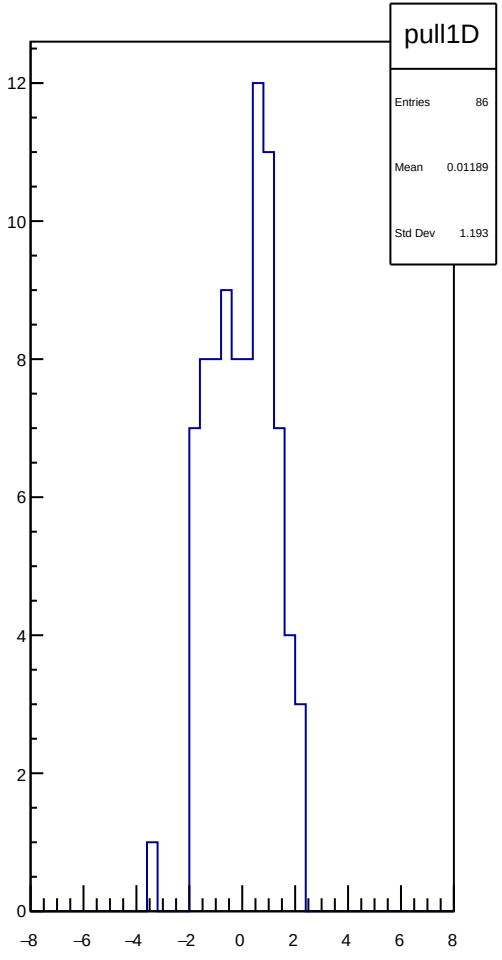

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.467e+05 / 85
p0 1.037e−11 ± 1.018e−14
90
80
70
60
50
40
30
20
10

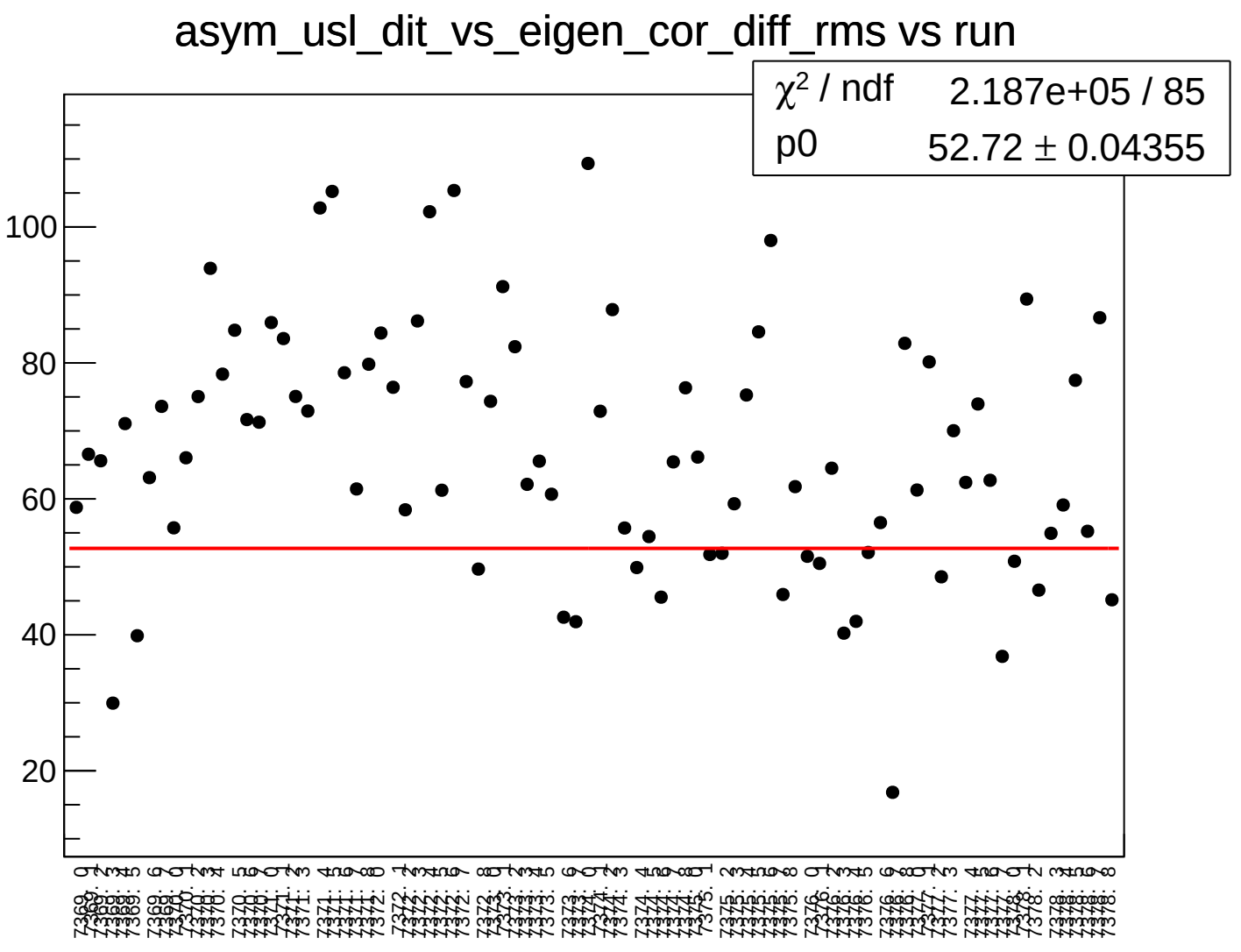

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 122.4 / 85
p0 −0.03858 ± 0.06159
pull
Entries 86
Mean 269.8
Std Dev 0

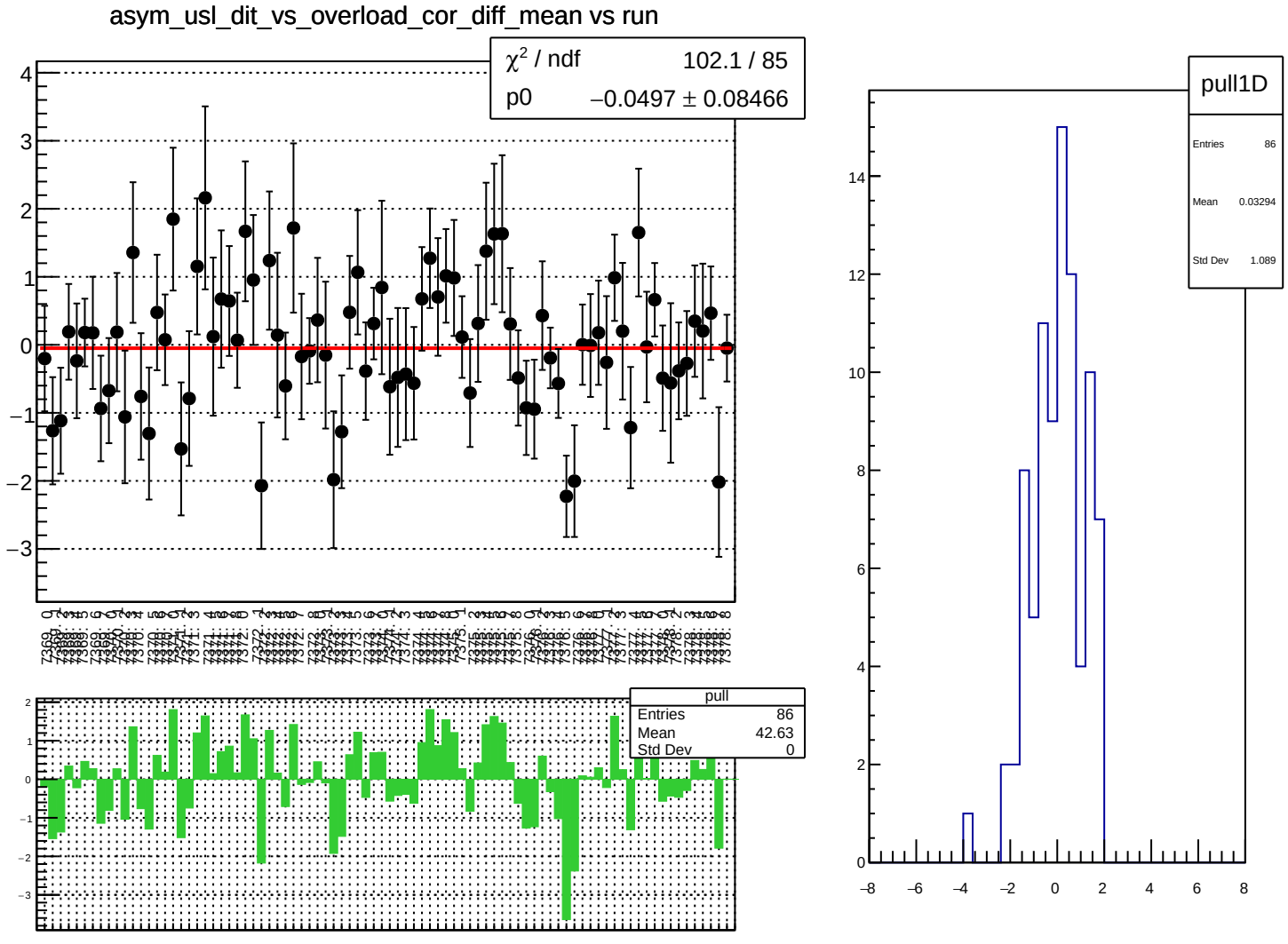

pull1D
Entries 86
Mean 0.01189
Std Dev 1.193

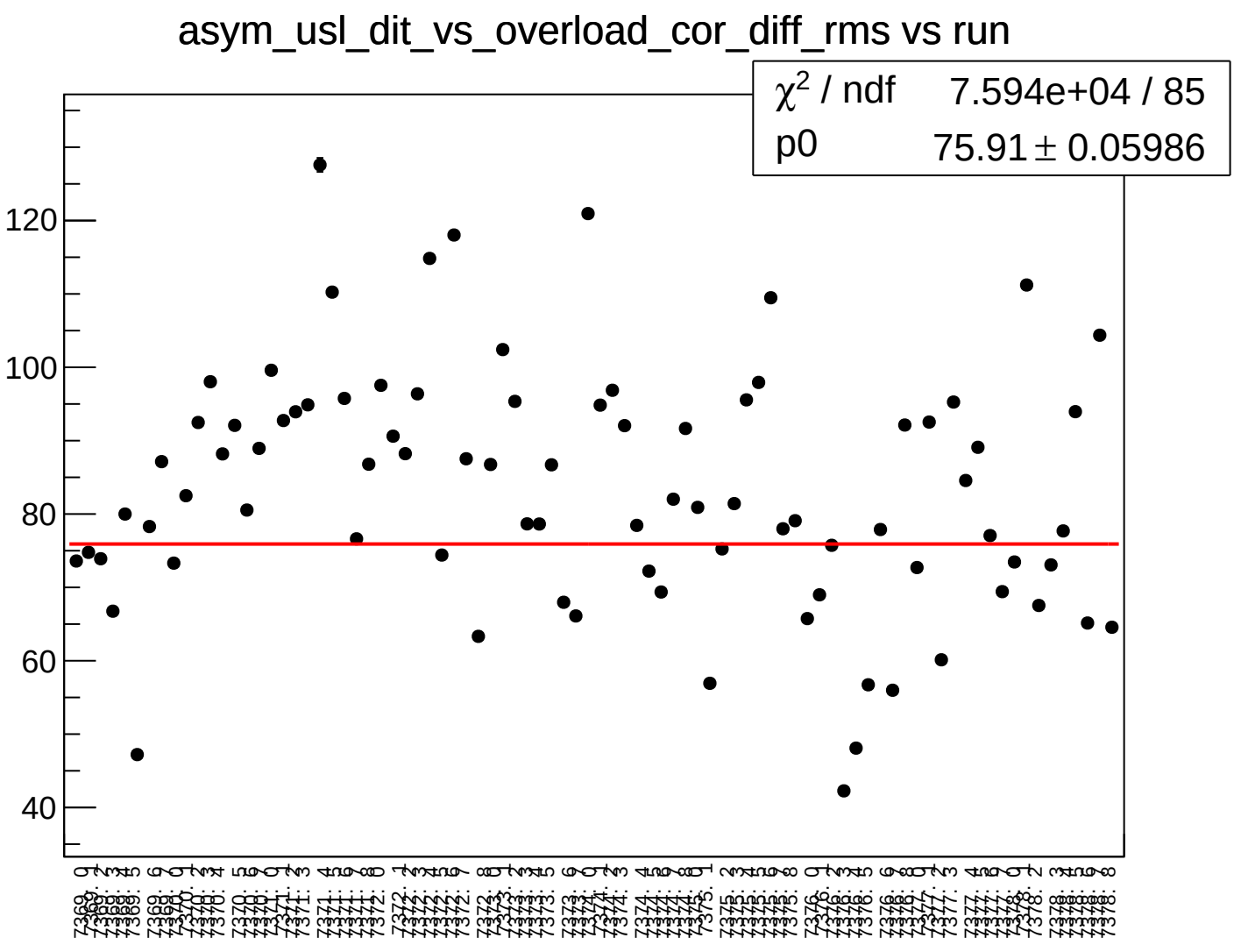

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.187e+05 / 85
p0 52.72 ± 0.04355
100
80
60
40
20

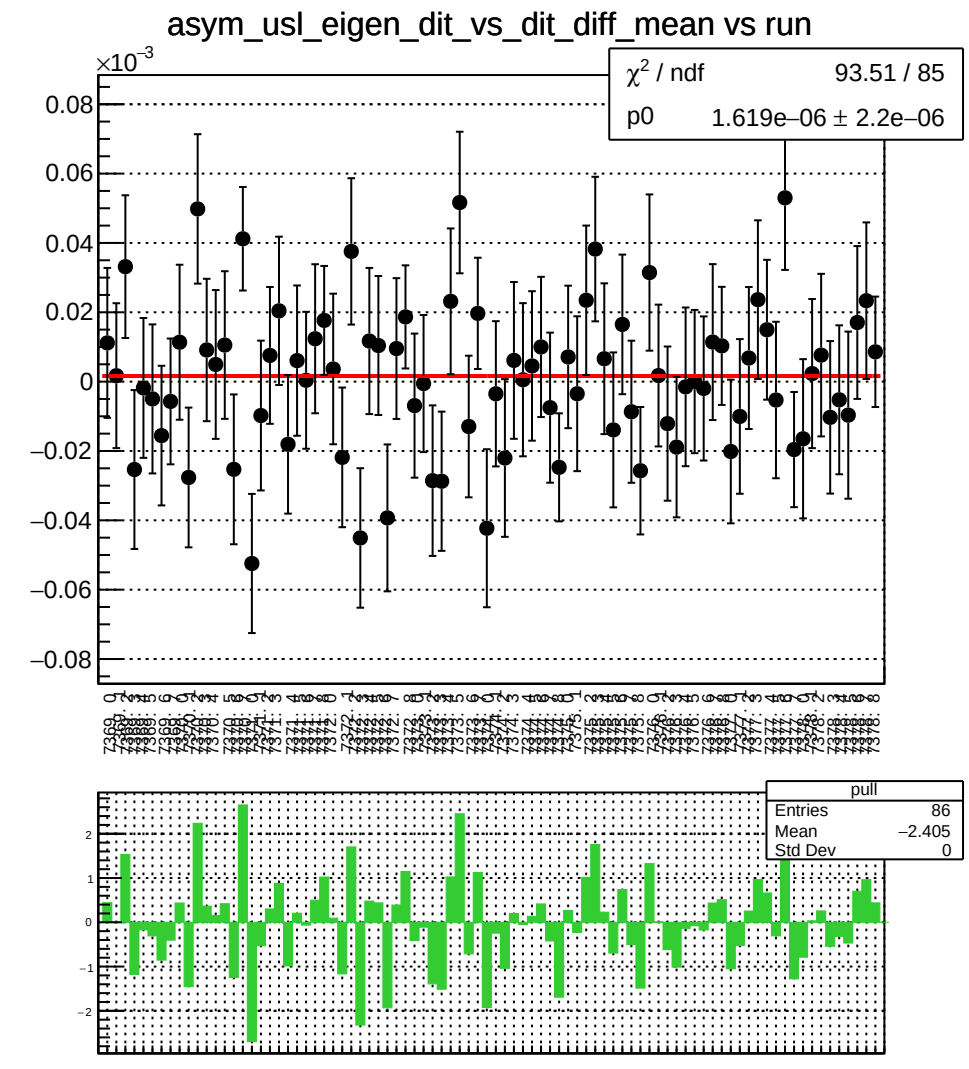

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.4 / 85
p0 −0.03858 ± 0.06159
pull
Entries 86
Mean 269.8
Std Dev 0

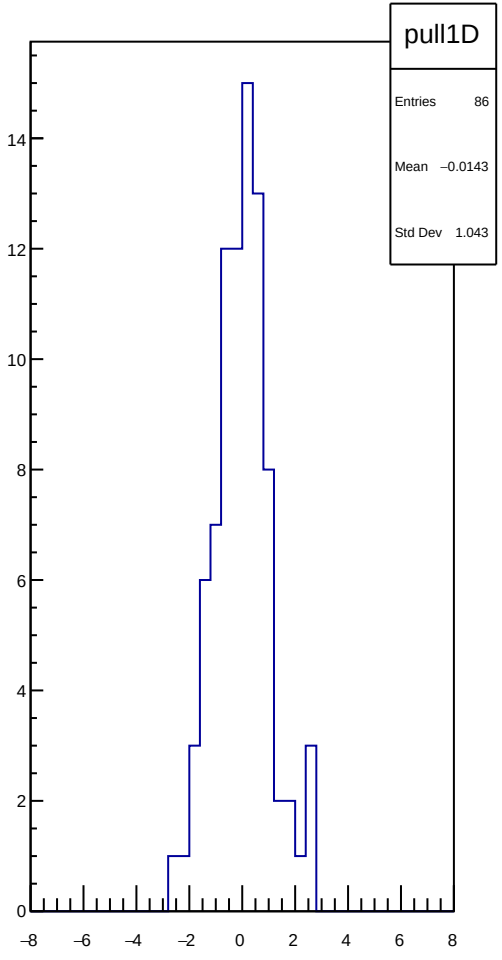

pull1D
Entries 86
Mean 0.01189
Std Dev 1.193

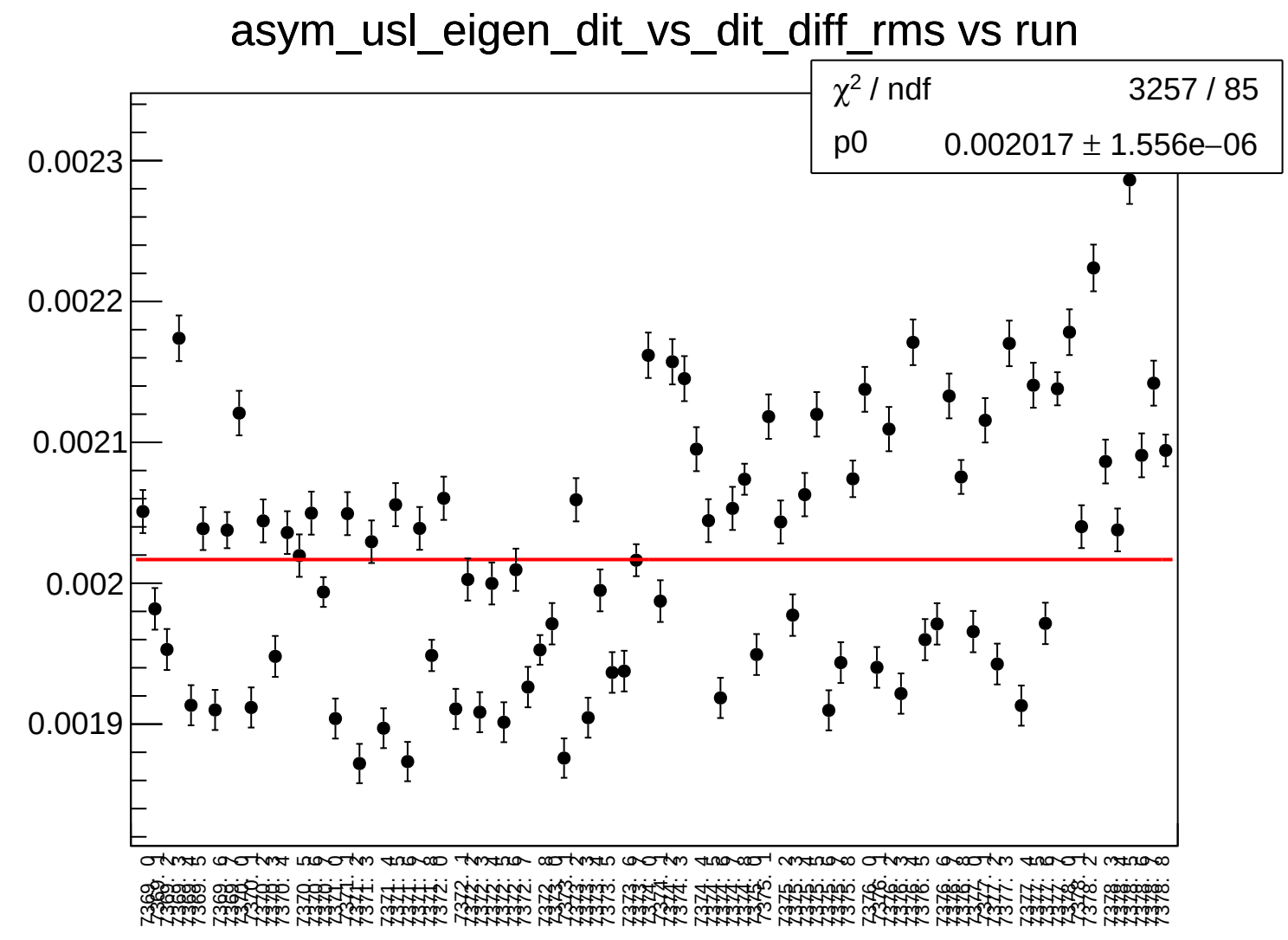

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.187e+05 / 85
p0 52.72 ± 0.04355
100
80
60
40
20

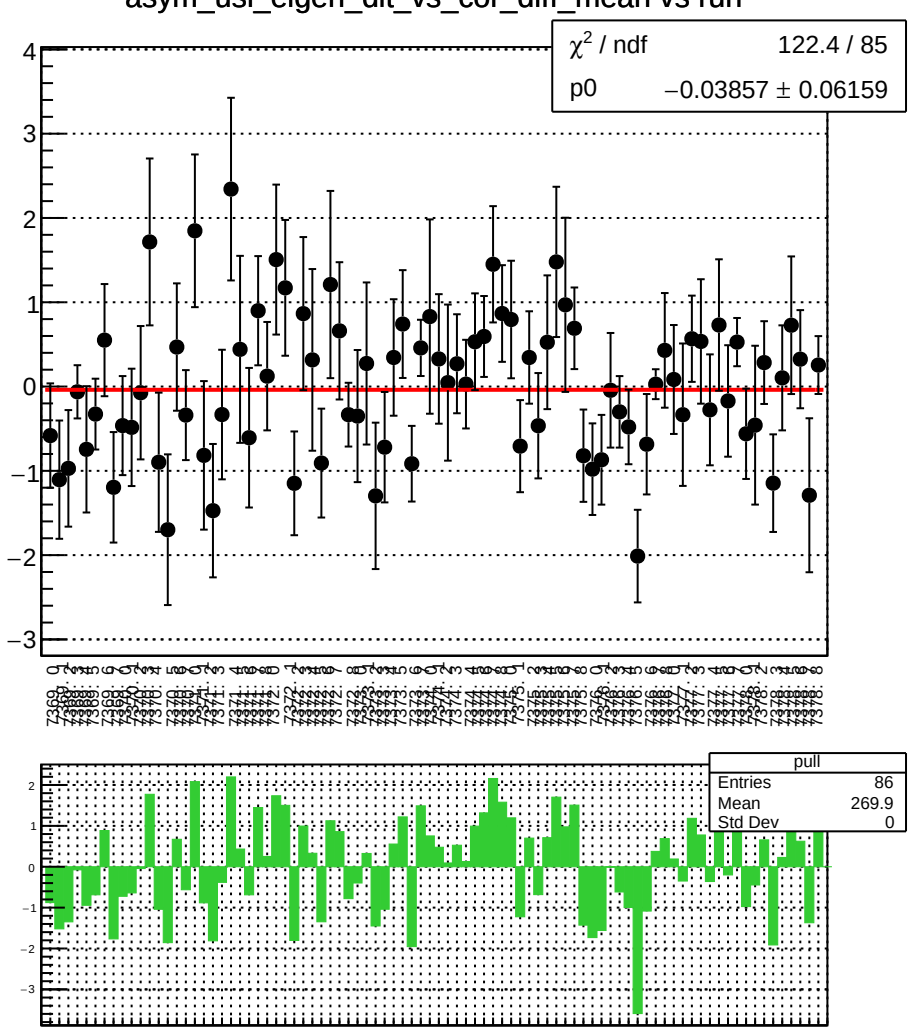

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 102.1 / 85
p0 −0.0497 ± 0.08466
pull
Entries 86
Mean 42.63
Std Dev 0
pull1D
Entries 86
Mean 0.03294
Std Dev 1.089

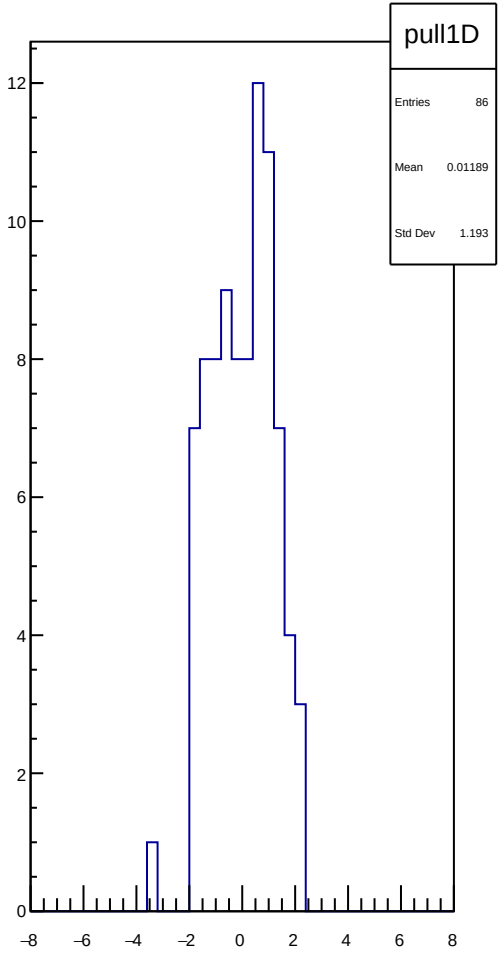

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.594e+04 / 85
p0 75.91 ± 0.05986
120
100
80
60
40

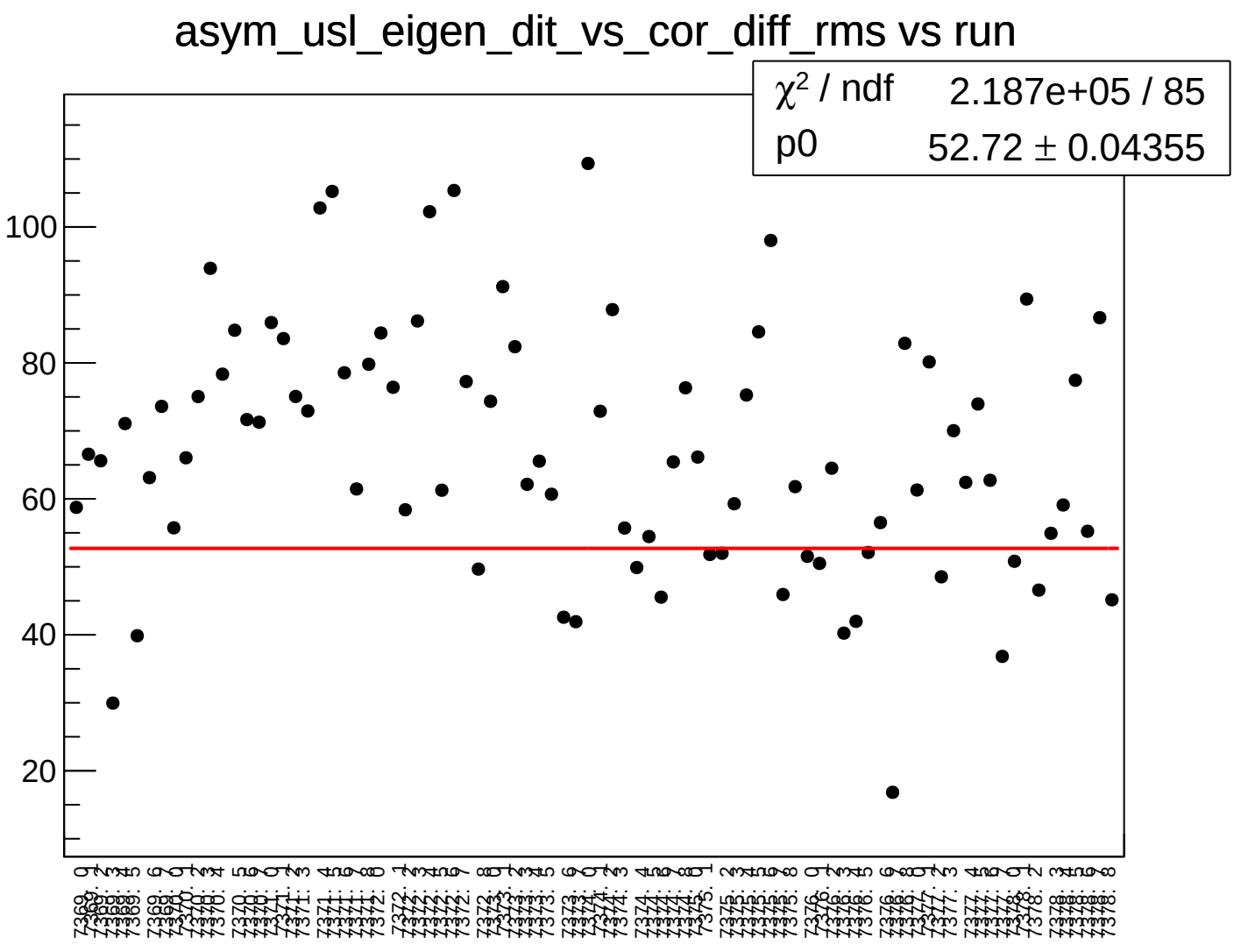

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.51 / 85
p0 1.619e–06 ± 2.2e–06
0.08
0.06
0.04
0.02
0
–0.02
–0.04
–0.06
–0.08
pull
Entries 86
Mean –2.405
Std Dev 0
2
1
0
–1
–2

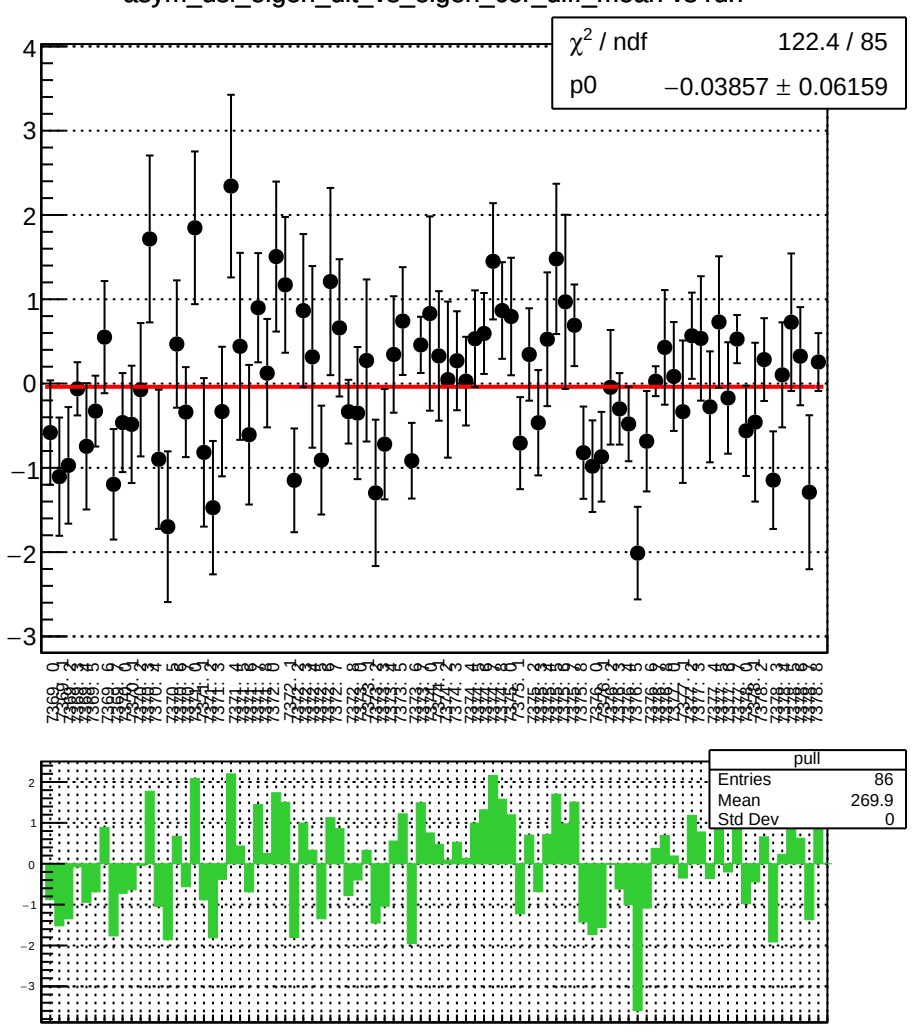

pull1D
Entries 86
Mean –0.0143
Std Dev 1.043
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

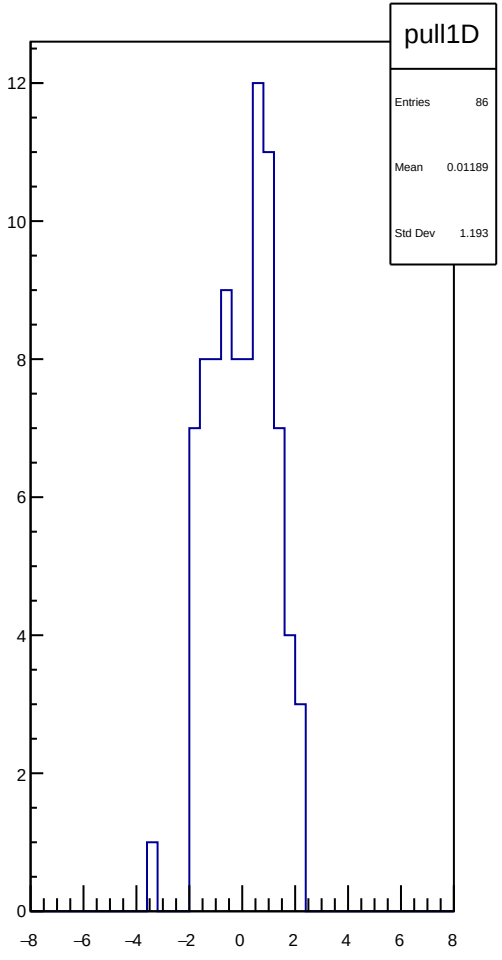

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3257 / 85
p0 0.002017 ± 1.556e−06
0.0023
0.0022
0.0021
0.002
0.0019

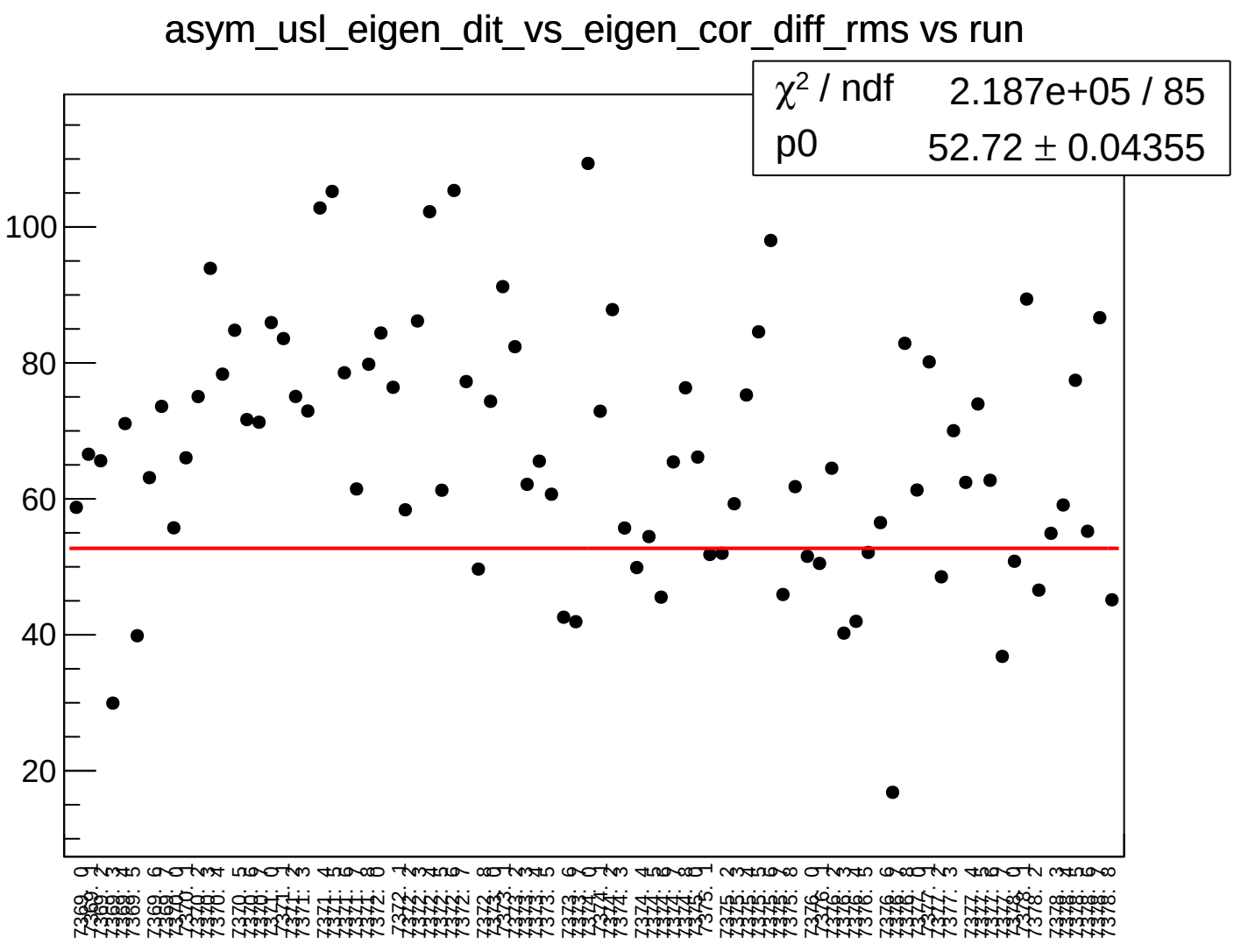

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122.4 / 85
p0 −0.03857 ± 0.06159
pull
Entries 86
Mean 269.9
Std Dev 0

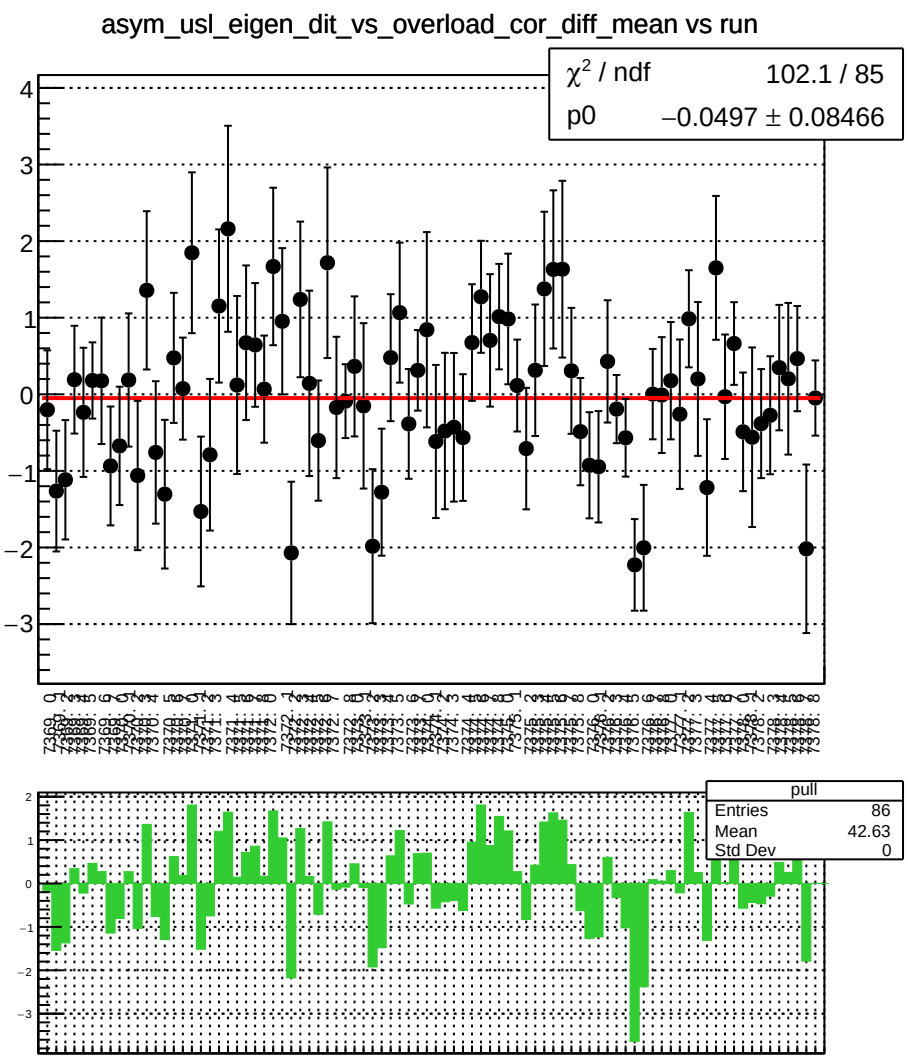

pull1D
Entries 86
Mean 0.01189
Std Dev 1.193

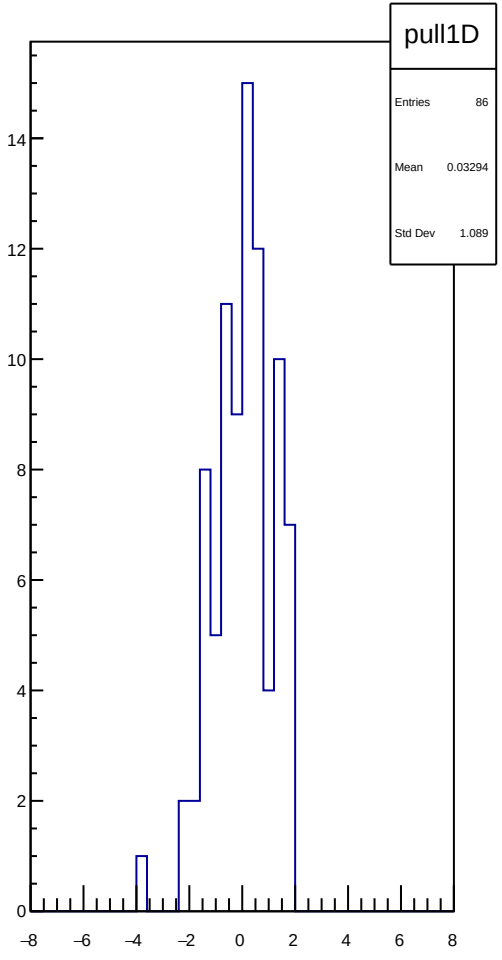

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.187e+05 / 85
p0 52.72 ± 0.04355
100
80
60
40
20

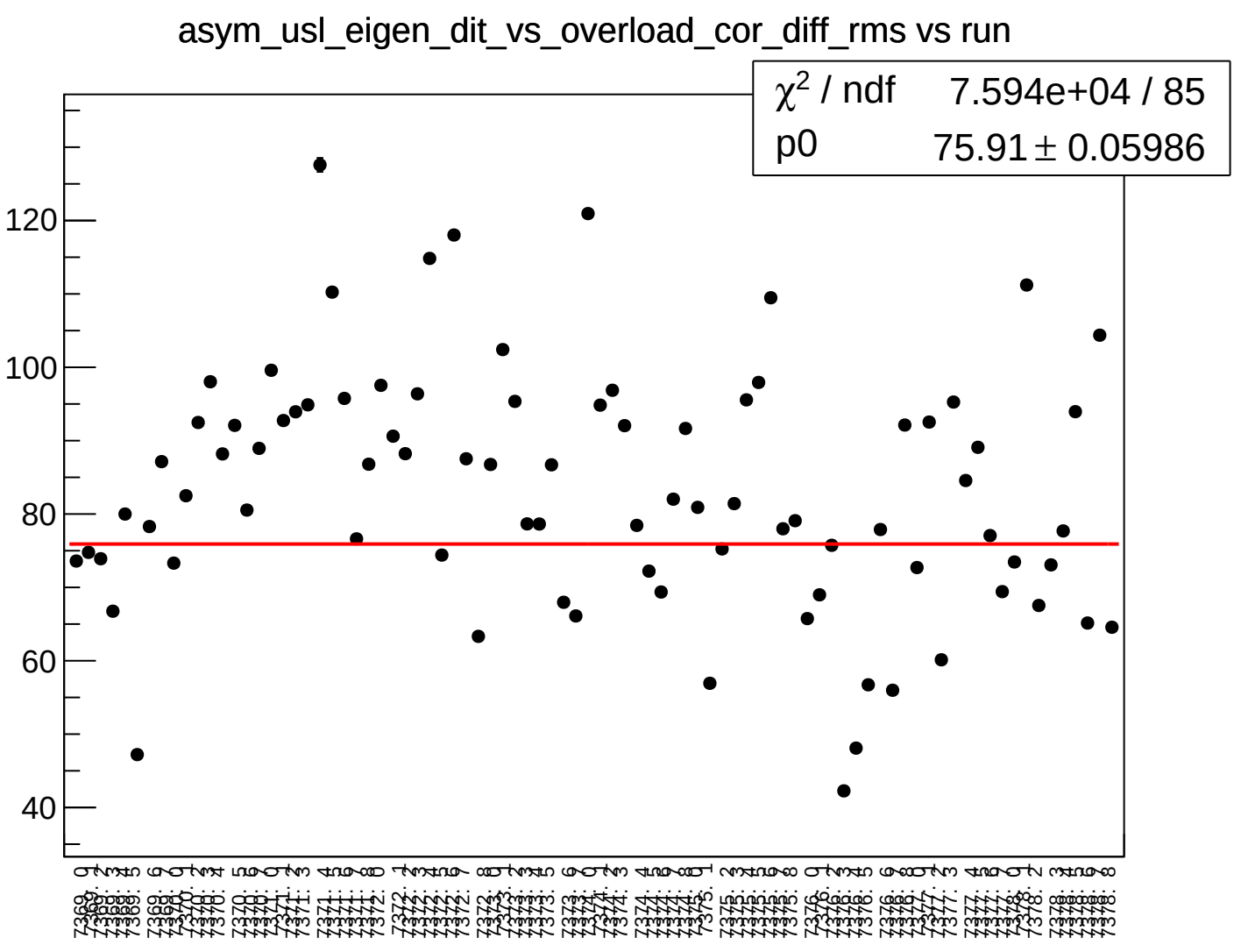

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.4 / 85
p0 −0.03857 ± 0.06159
pull
Entries 86
Mean 269.9
Std Dev 0

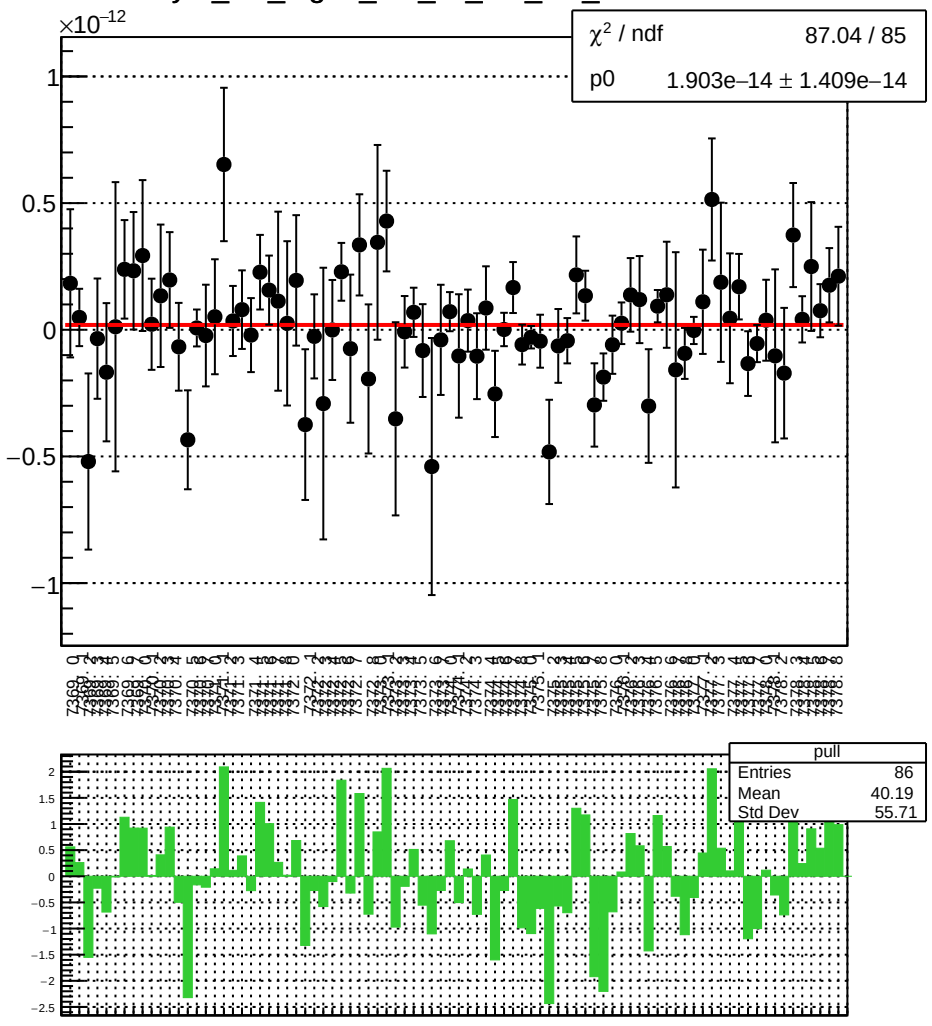

pull1D
Entries 86
Mean 0.01189
Std Dev 1.193

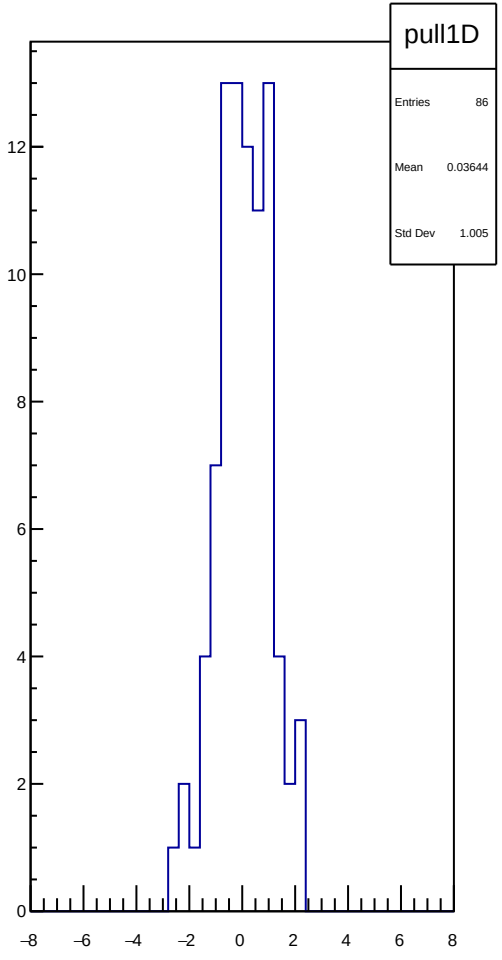

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.187e+05 / 85
p0 52.72 ± 0.04355
100
80
60
40
20

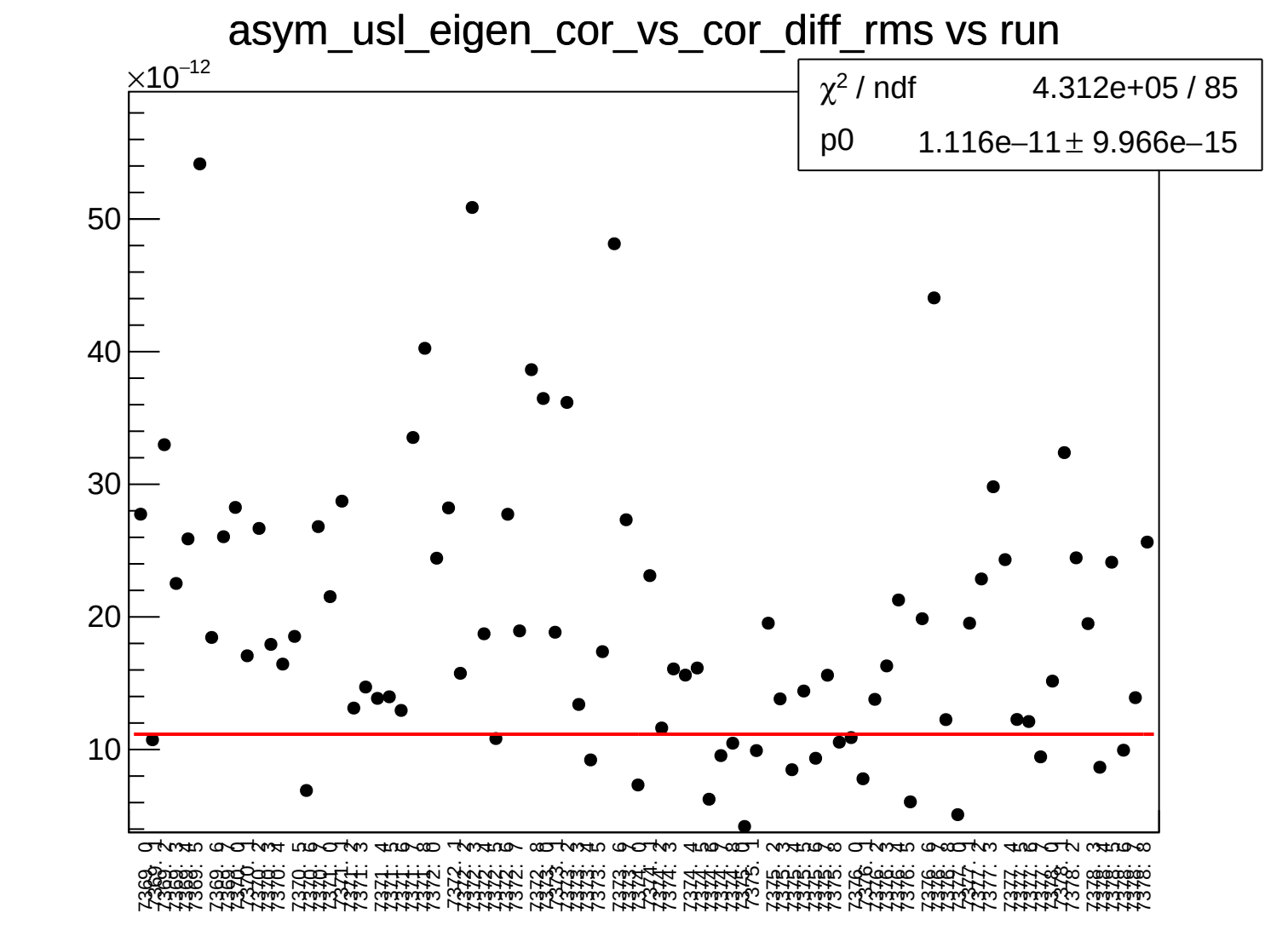

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 102.1 / 85
p0 −0.0497 ± 0.08466
pull
Entries 86
Mean 42.63
Std Dev 0


pull1D
Entries 86
Mean 0.03294
Std Dev 1.089

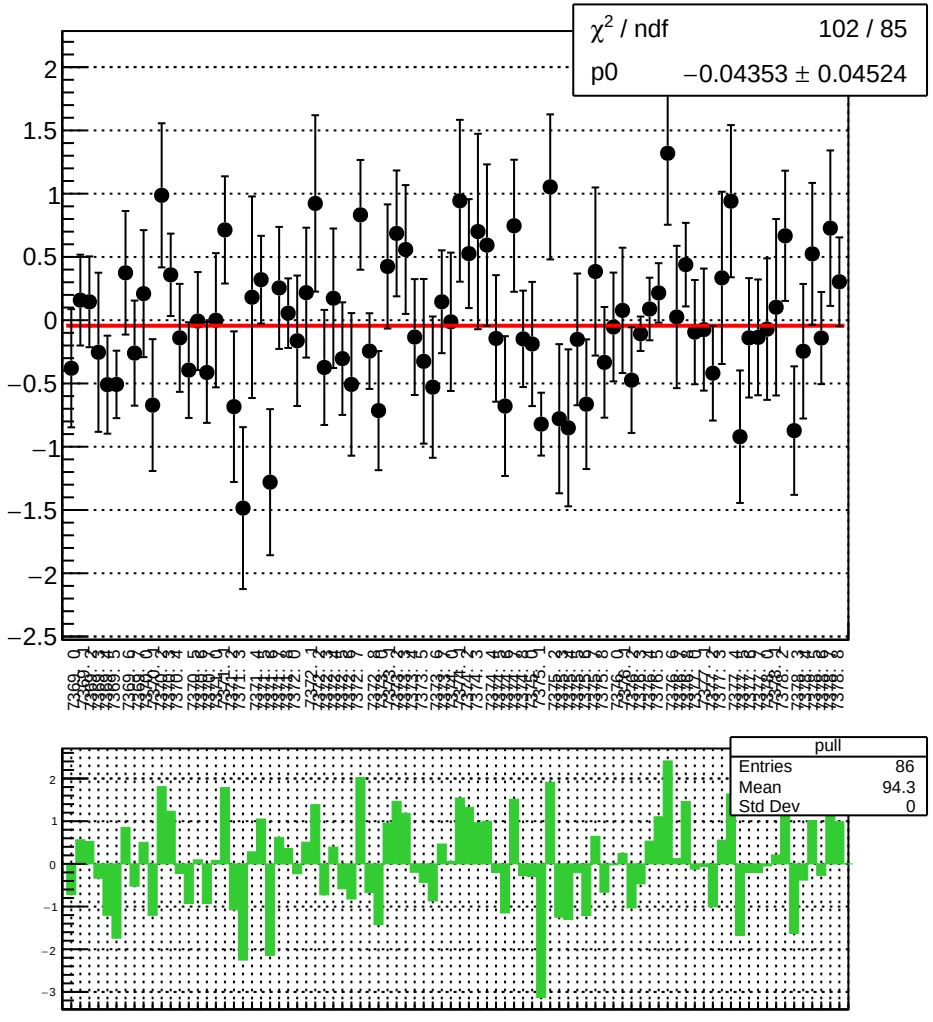

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.594e+04 / 85
p0 75.91 ± 0.05986
120
100
80
60
40

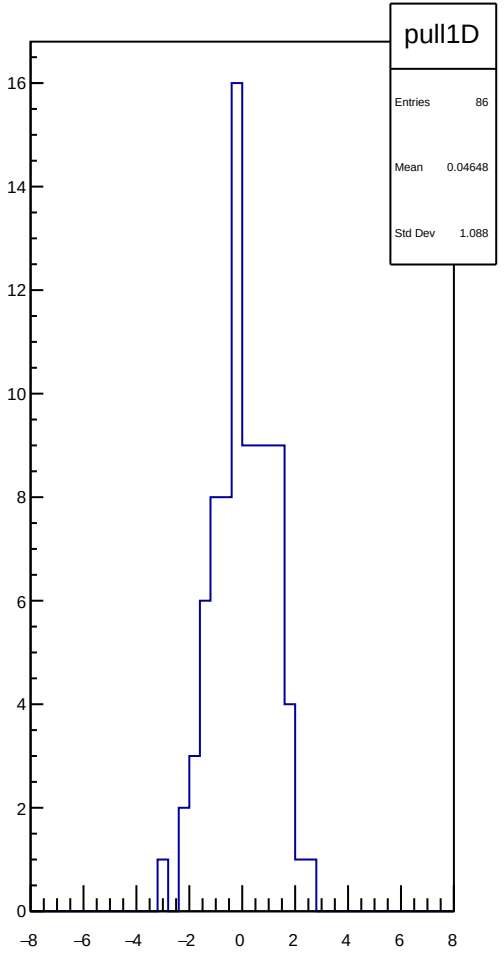

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.04 / 85
p0 1.903e−14 ± 1.409e−14
pull
Entries 86
Mean 40.19
Std Dev 55.71

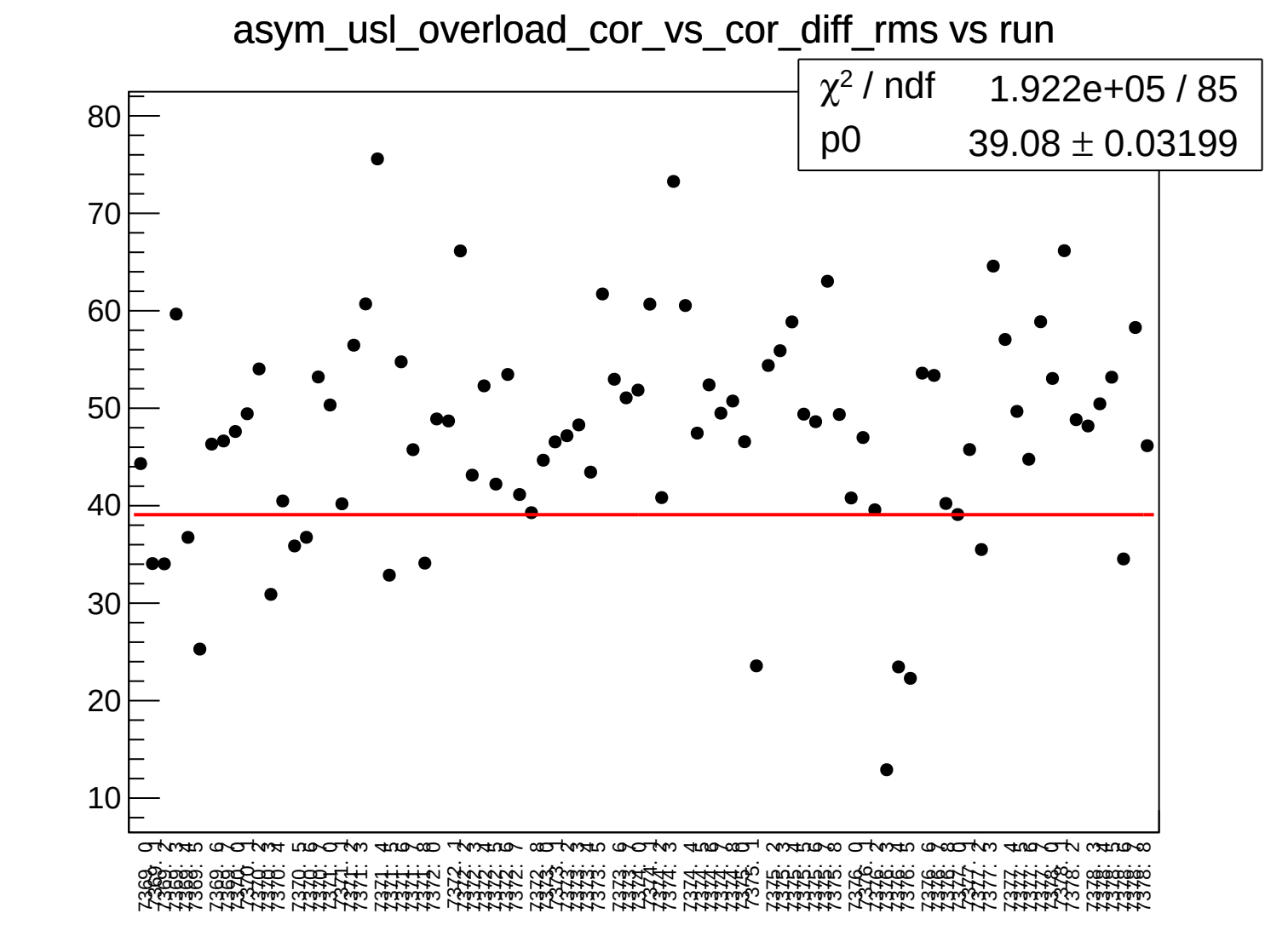

pull1D
Entries 86
Mean 0.03644
Std Dev 1.005

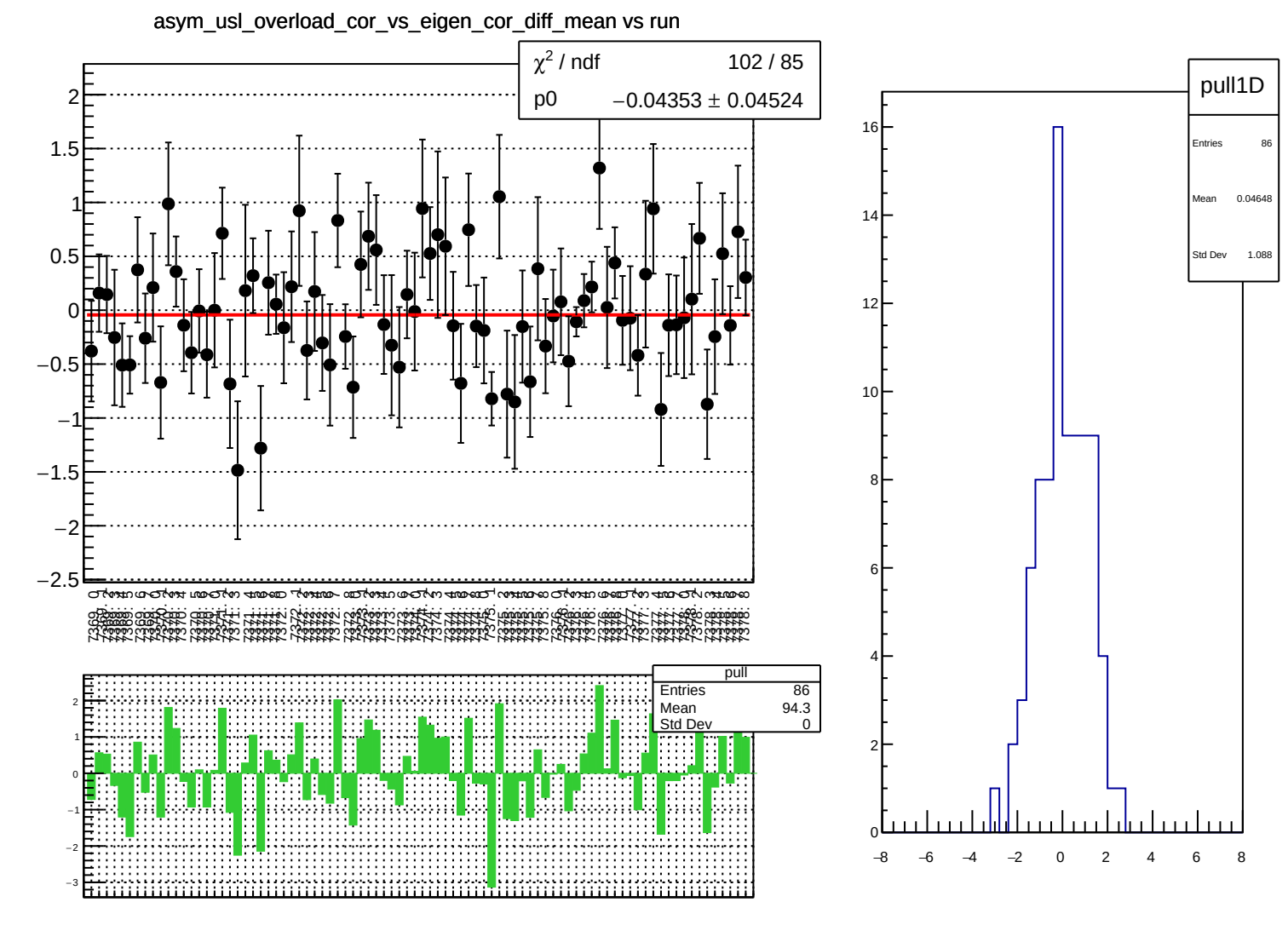

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.312e+05 / 85
p0 1.116e−11 ± 9.966e−15
50
40
30
20
10

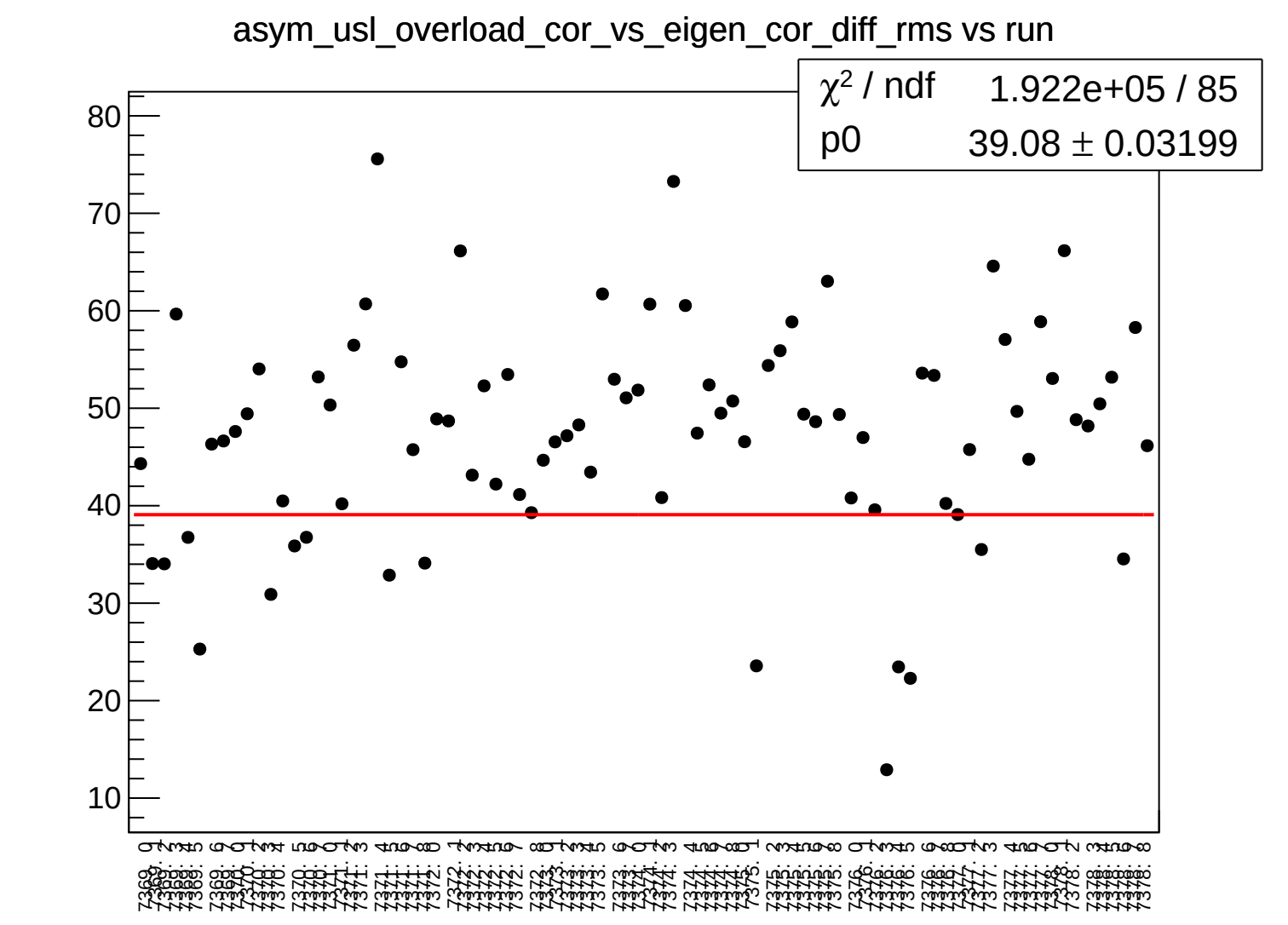
asym_usl_overload_cor_vs_cor_diff_mean vs run

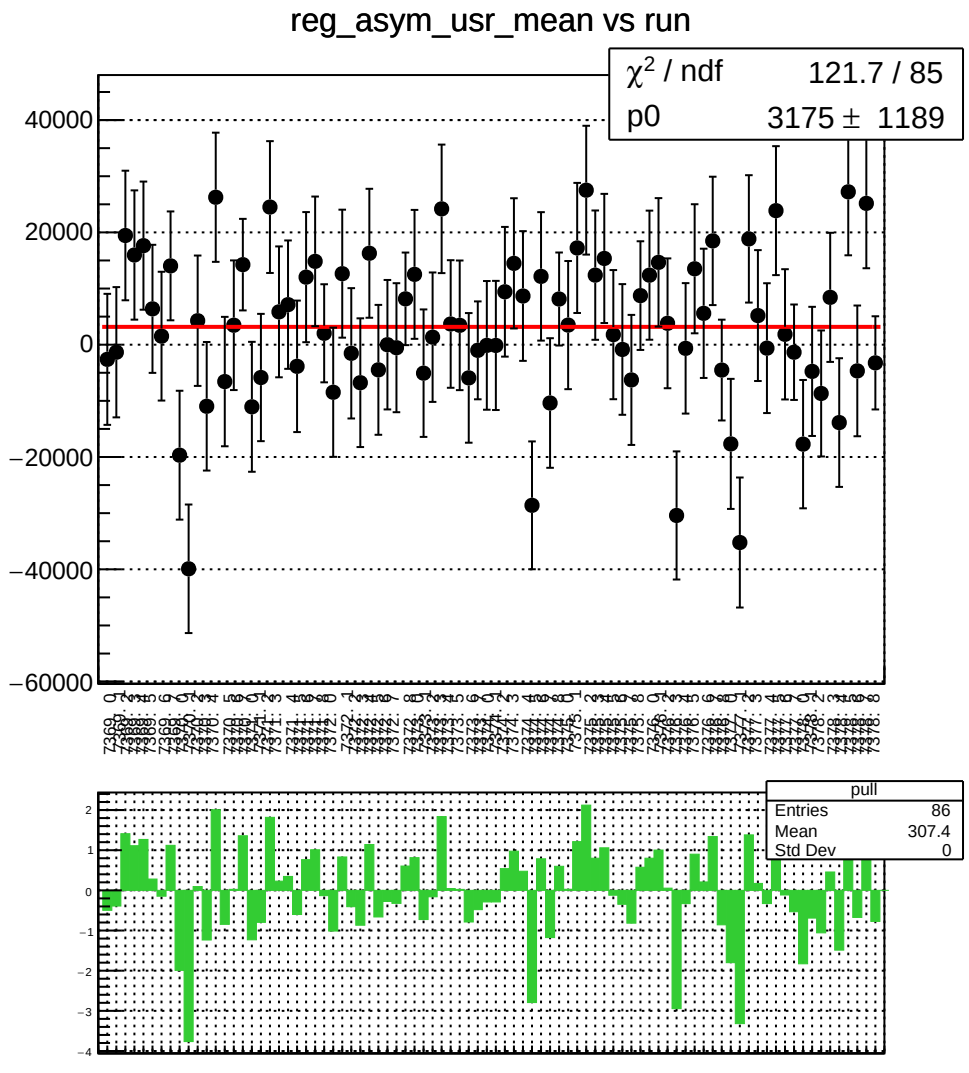


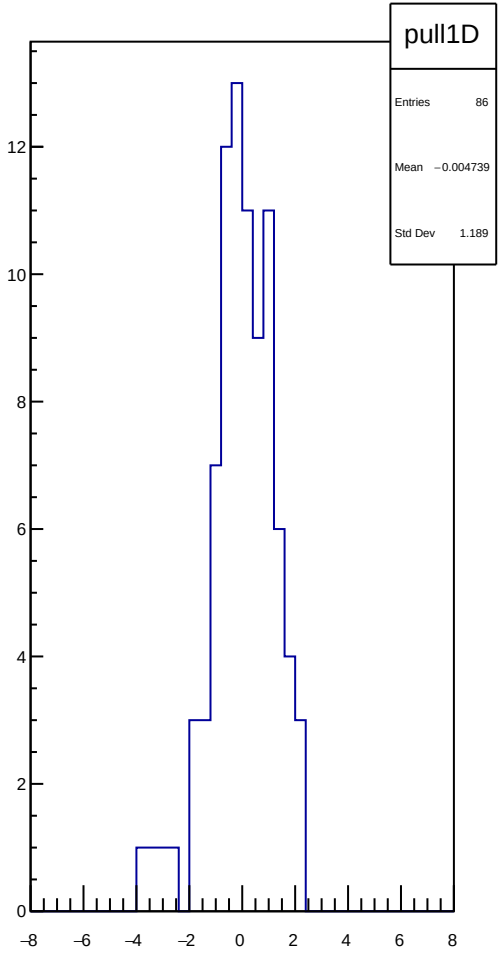


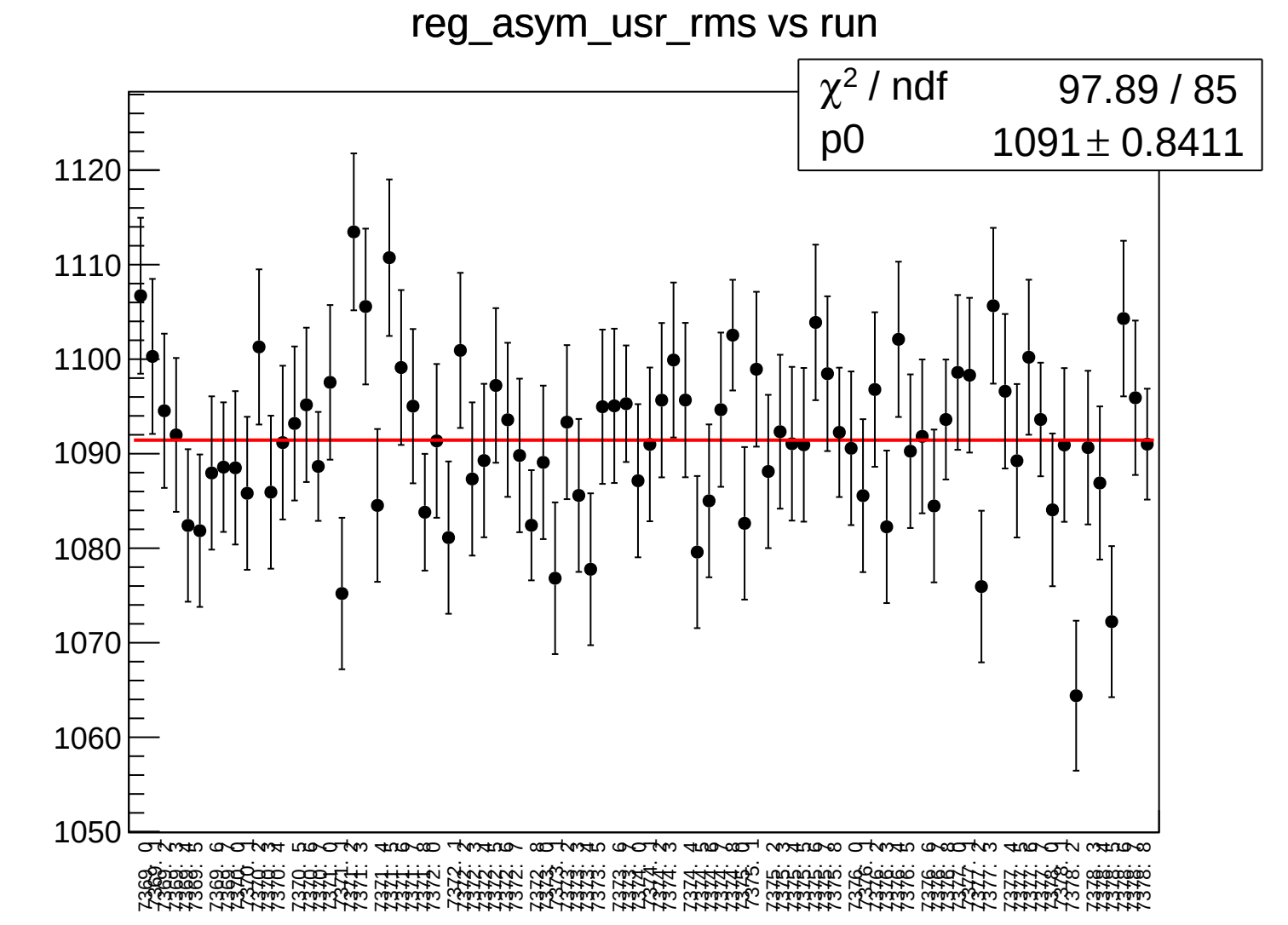

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.922e+05 / 85
p0 39.08 ± 0.03199
80
70
60
50
40
30
20
10

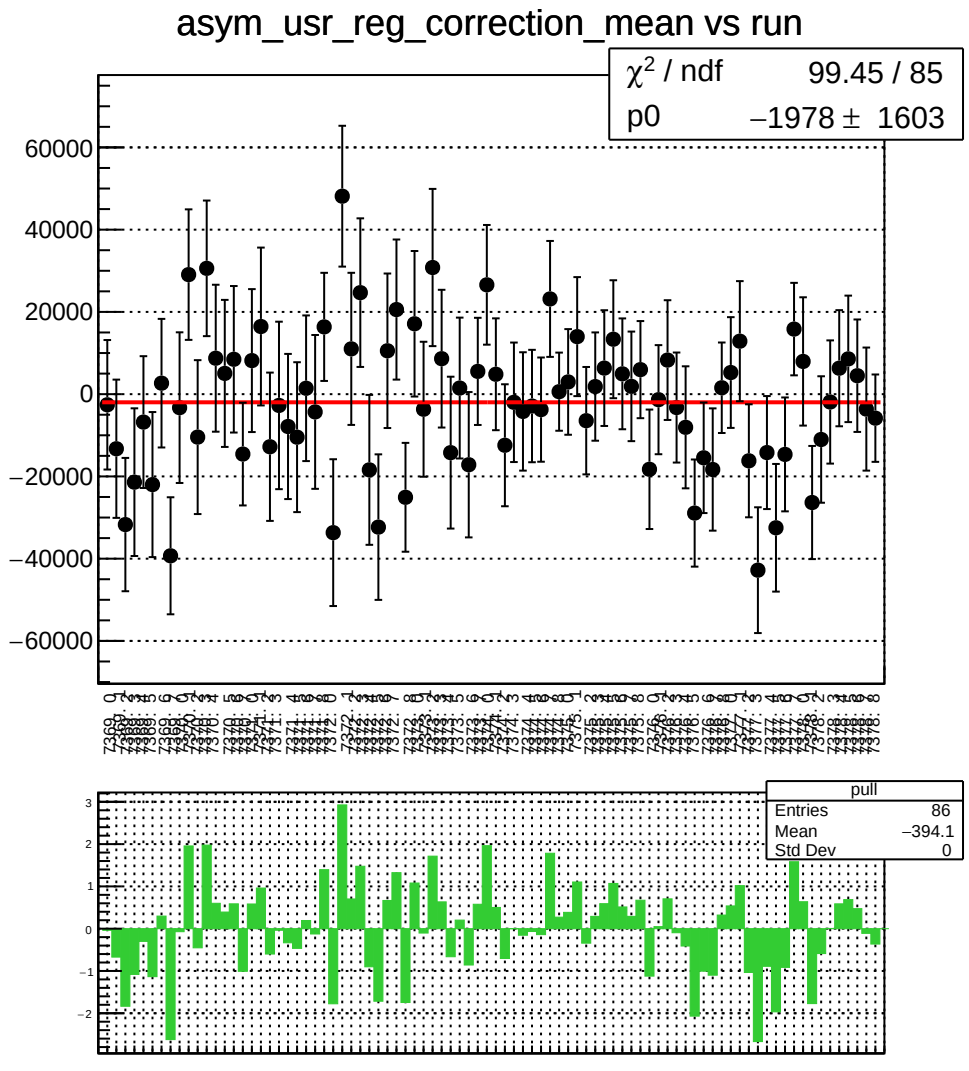

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 85
p0 −0.04353 ± 0.04524
pull
Entries 86
Mean 94.3
Std Dev 0
pull1D
Entries 86
Mean 0.04648
Std Dev 1.088

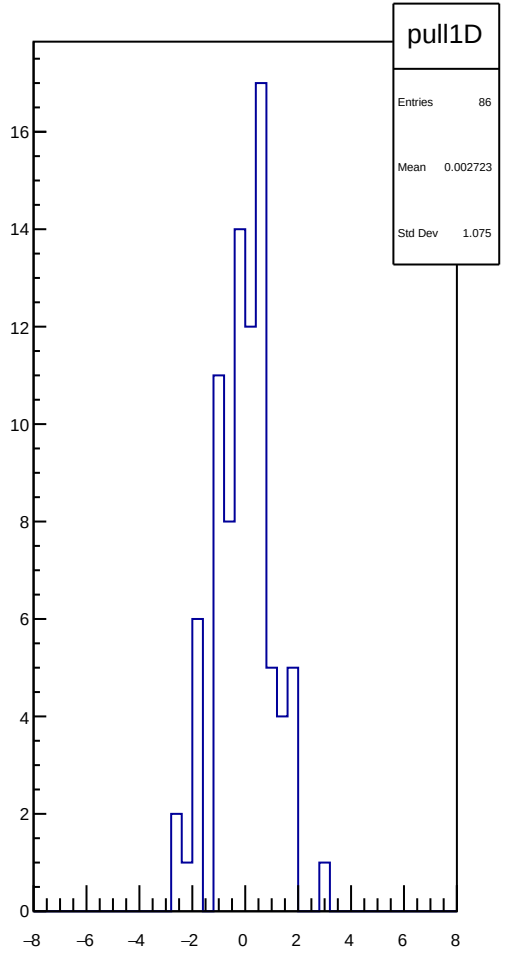

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.922e+05 / 85
p0 39.08 ± 0.03199
80
70
60
50
40
30
20
10


reg_asym_usr_mean vs run
χ² / ndf 121.7 / 85
p0 3175 ± 1189
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 307.4
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 86
Mean −0.004739
Std Dev 1.189
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_rms vs run
χ^2 / ndf 97.89 / 85
p0 1091 ± 0.8411
1120
1110
1100
1090
1080
1070
1060
1050


asym_usr_reg_correction_mean vs run
χ² / ndf 99.45 / 85
p0 −1978 ± 1603
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −394.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.002723
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
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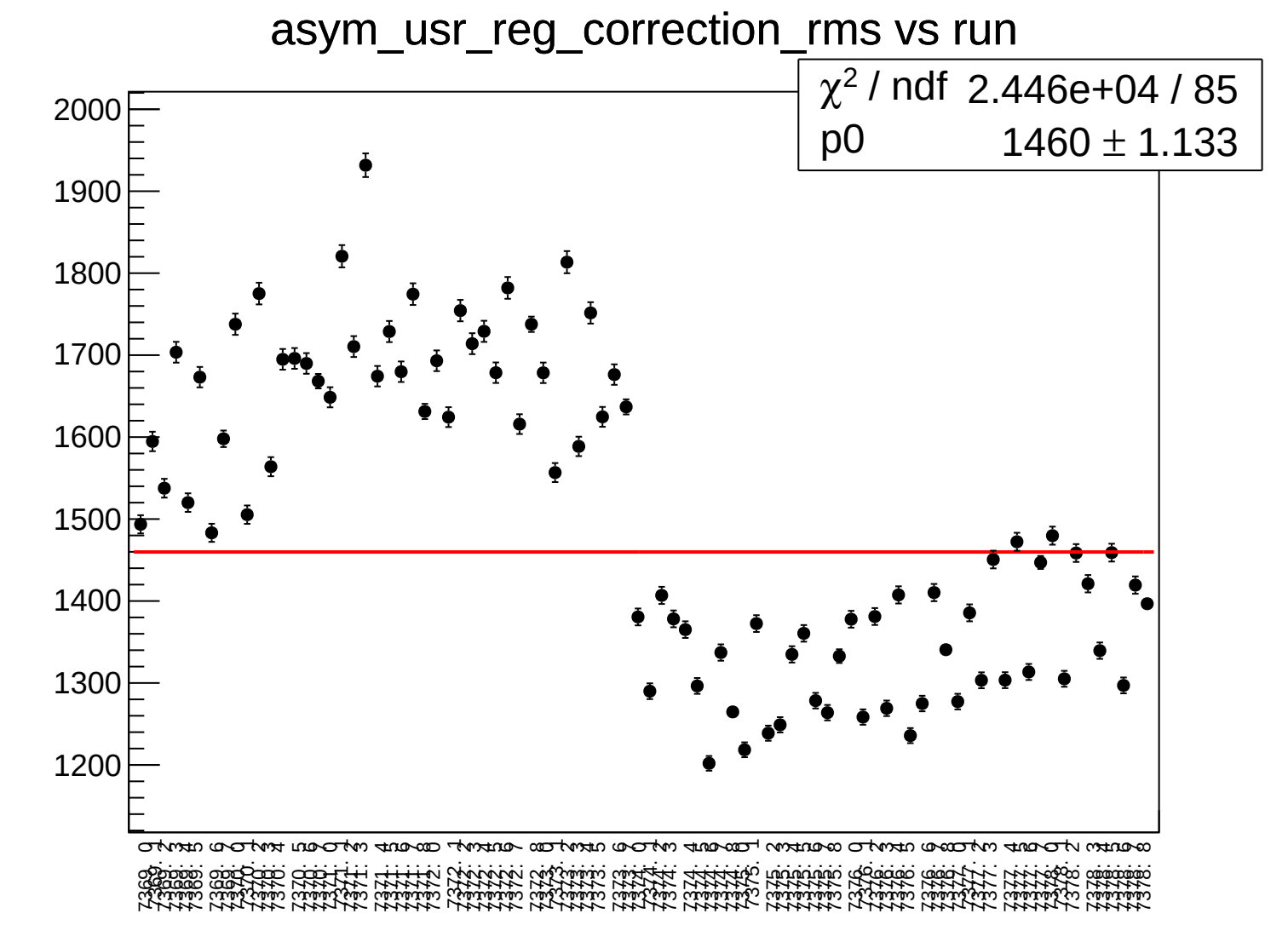
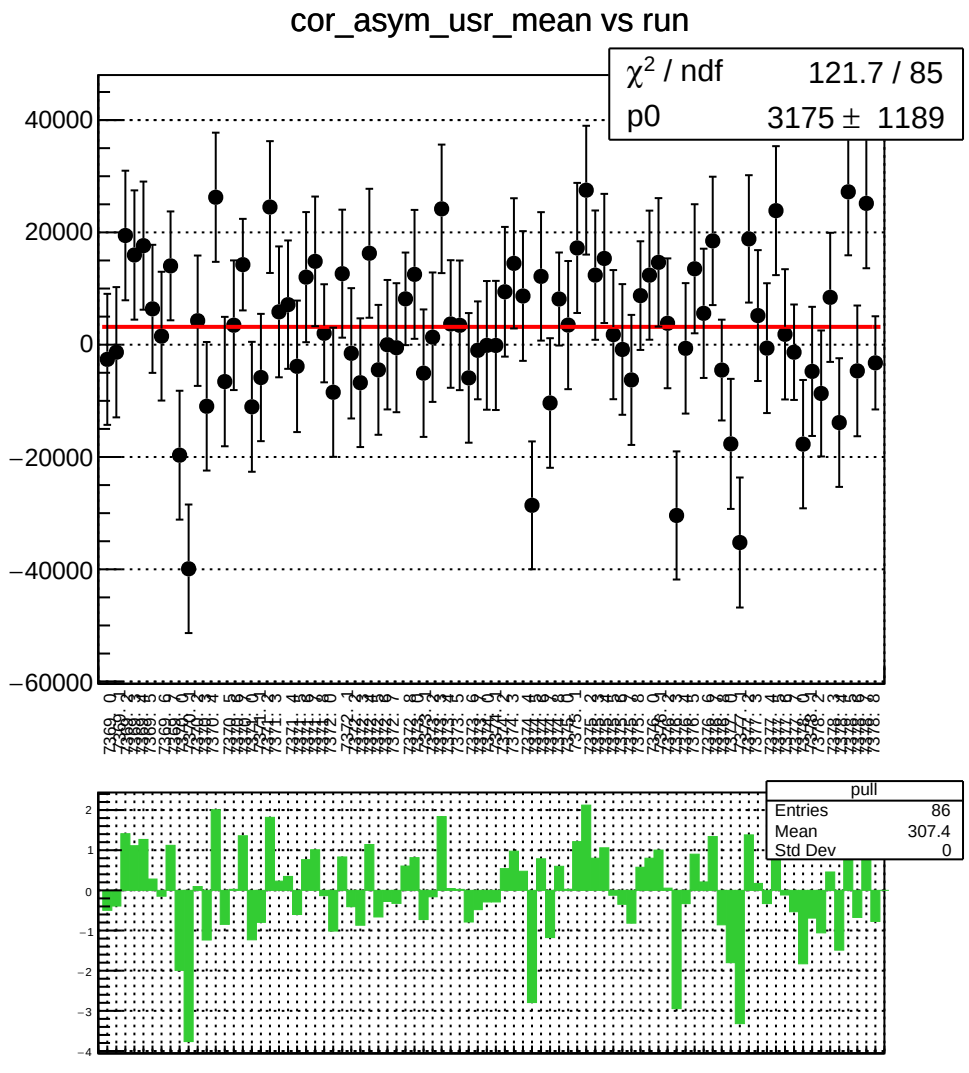
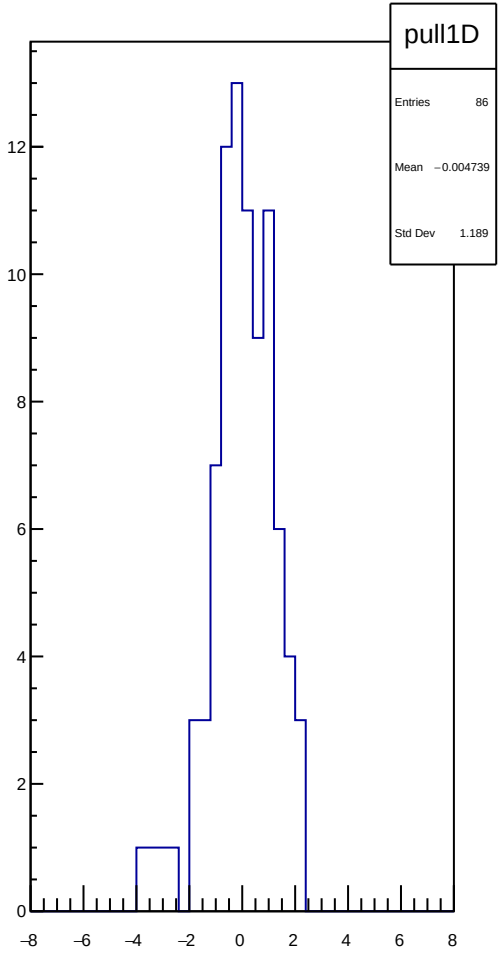
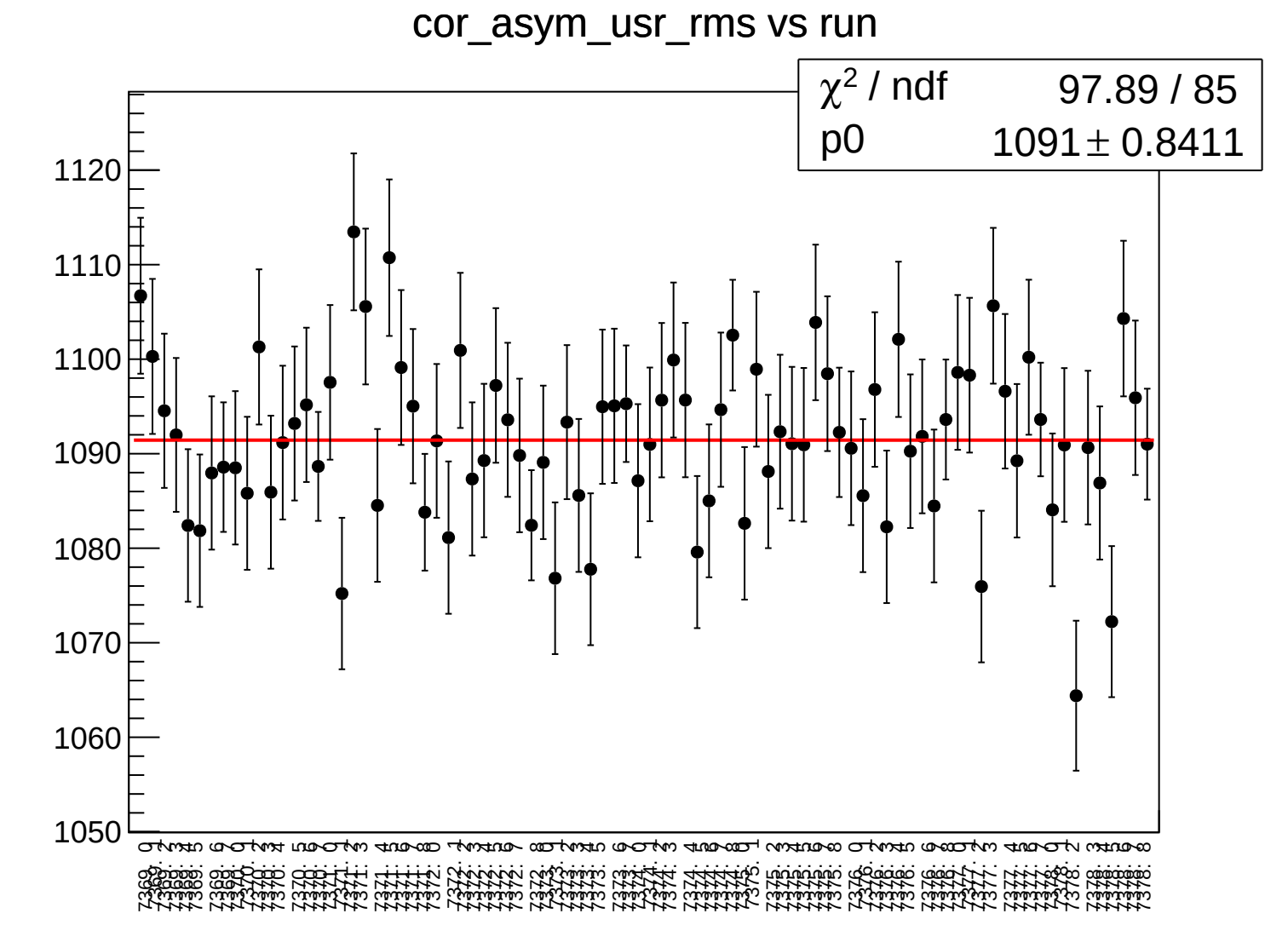
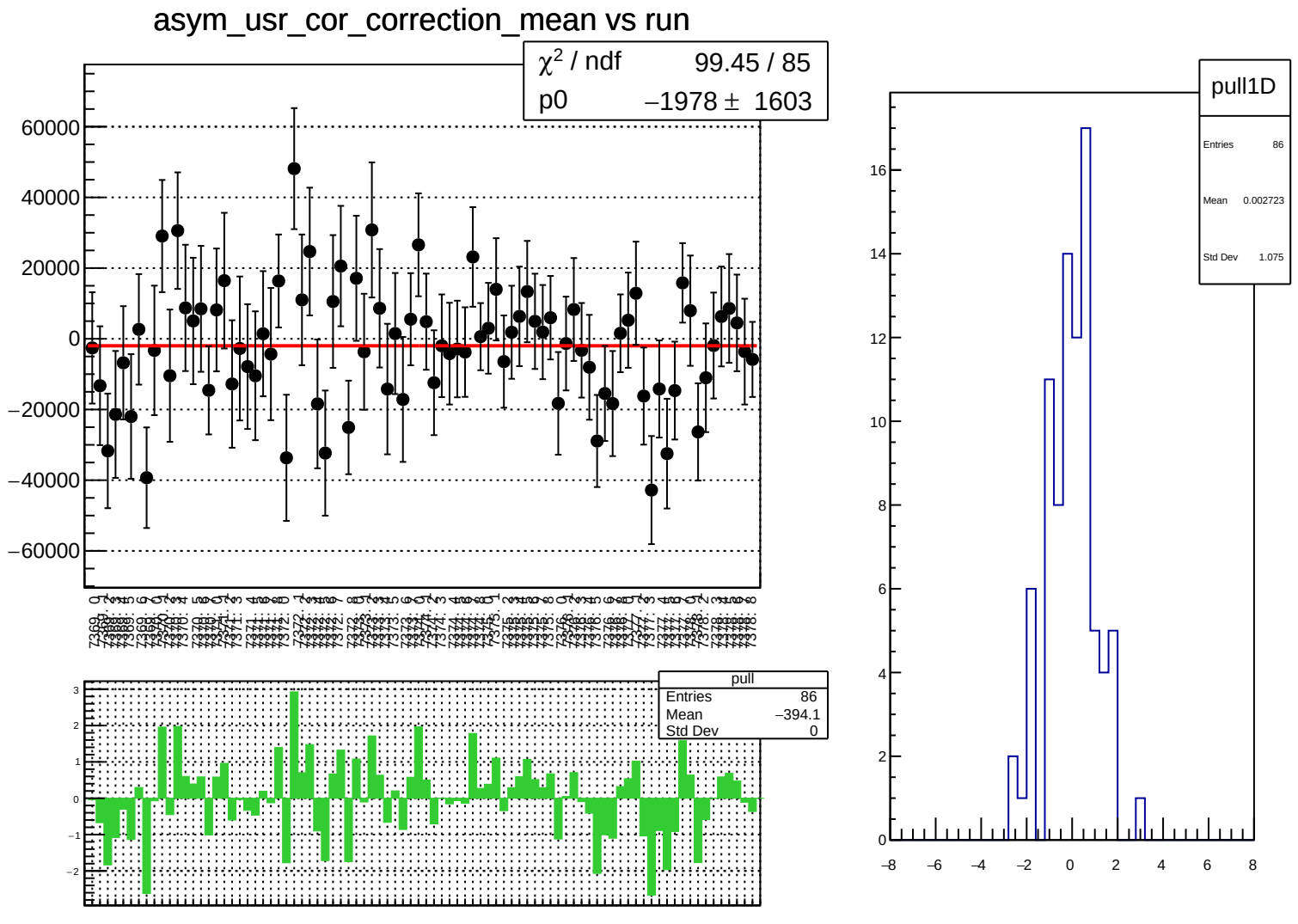
0
2
4
6
8

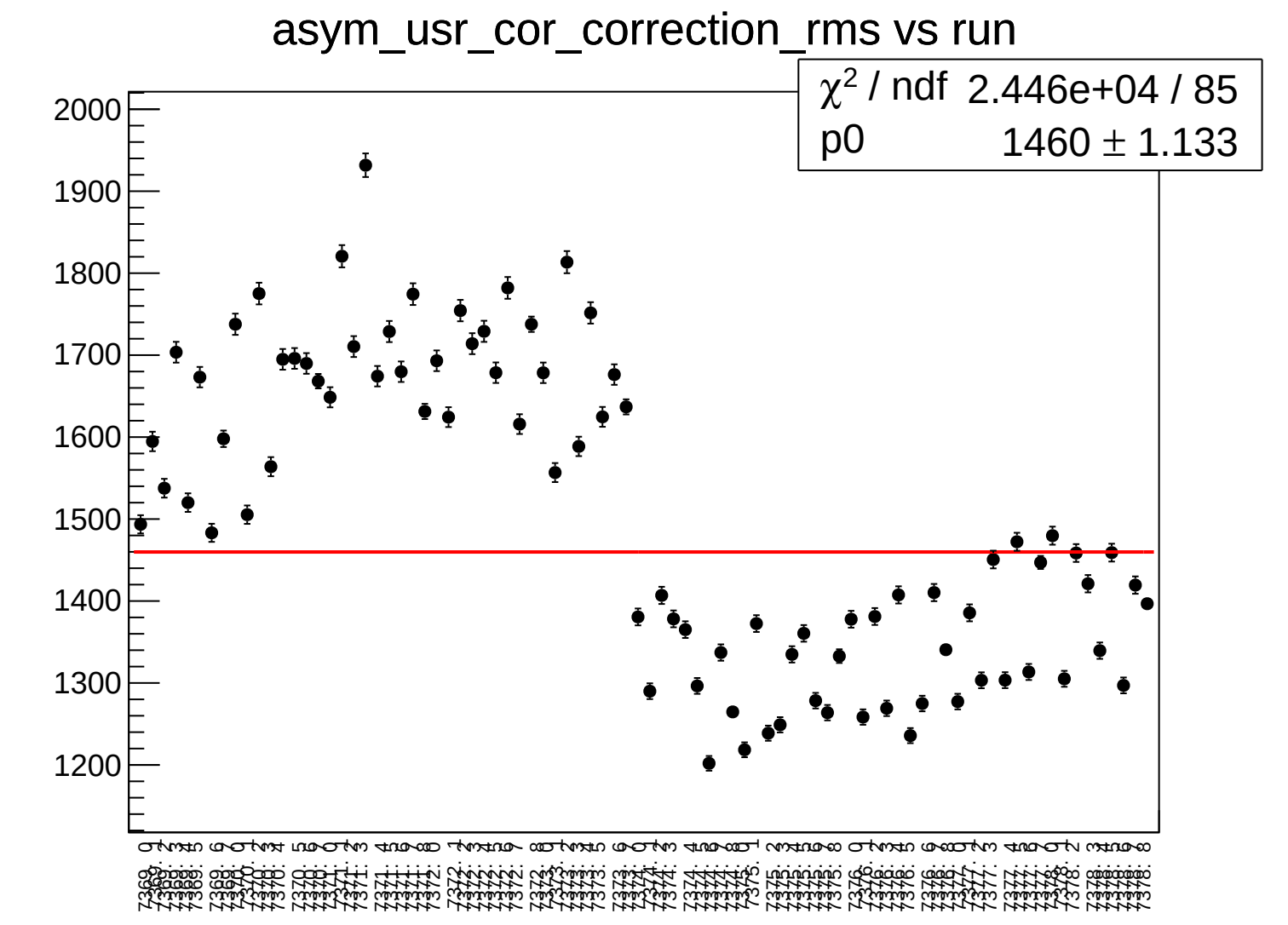

asym_usr_reg_correction_rms vs run
χ^2 / ndf 2.446e+04 / 85
p0 1460 ± 1.133
2000
1900
1800
1700
1600
1500
1400
1300
1200

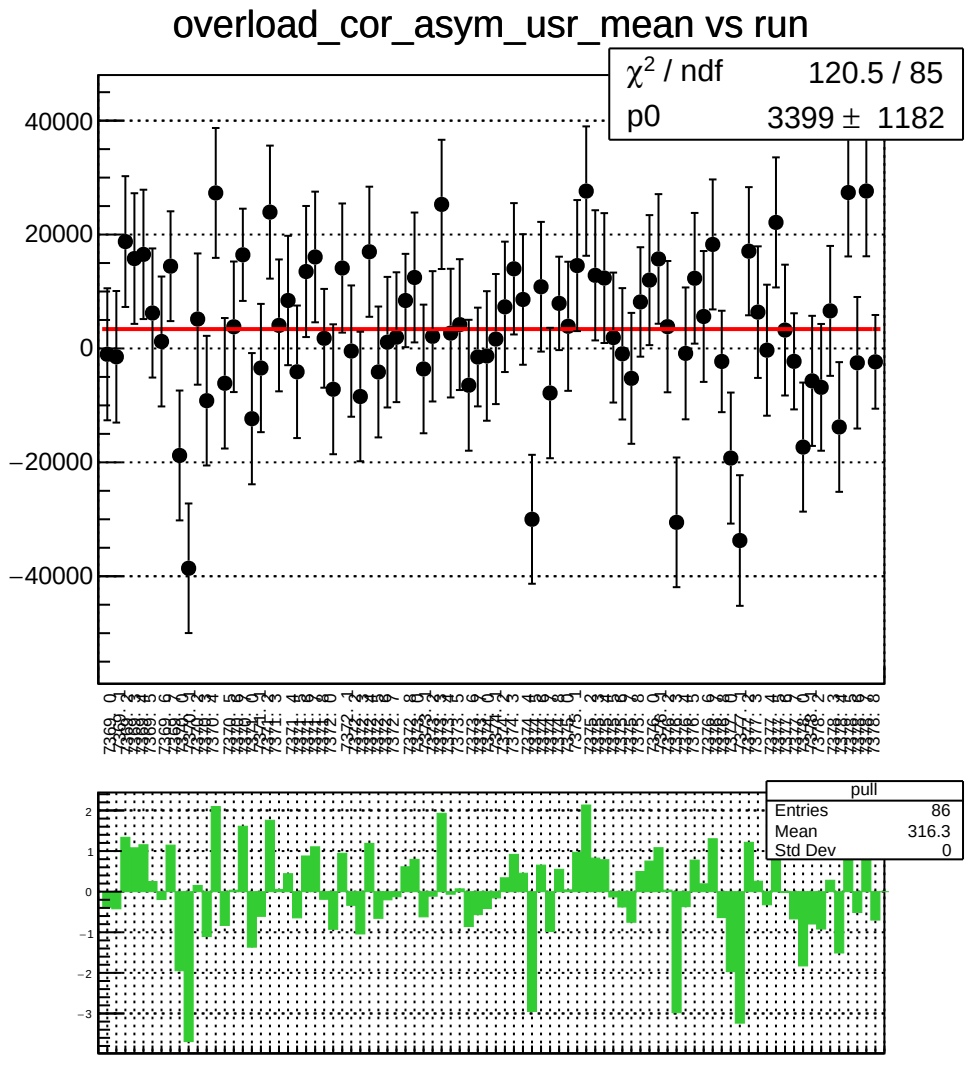

cor_asym_usr_mean vs run
χ² / ndf 121.7 / 85
p0 3175 ± 1189
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 307.4
Std Dev 0
2
1
0
−1
−2
−3
−4

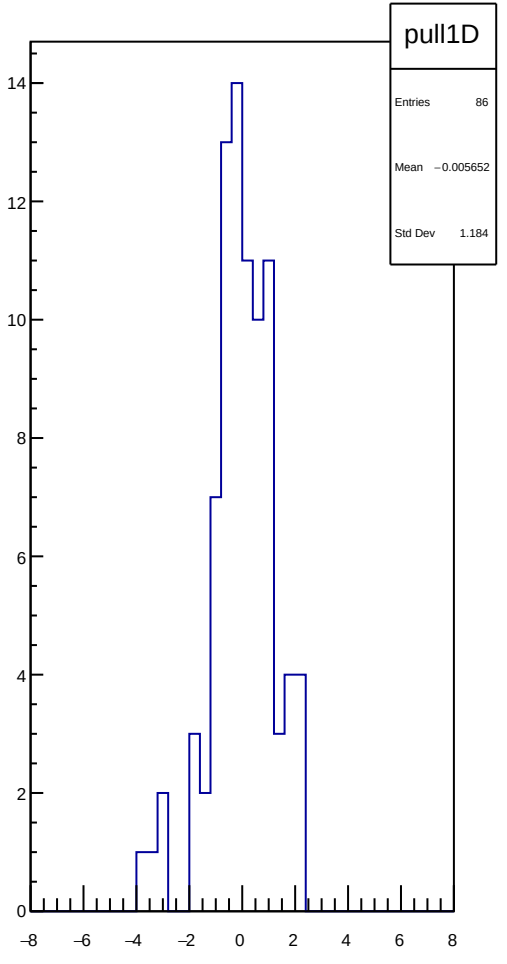

pull1D
Entries 86
Mean −0.004739
Std Dev 1.189
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

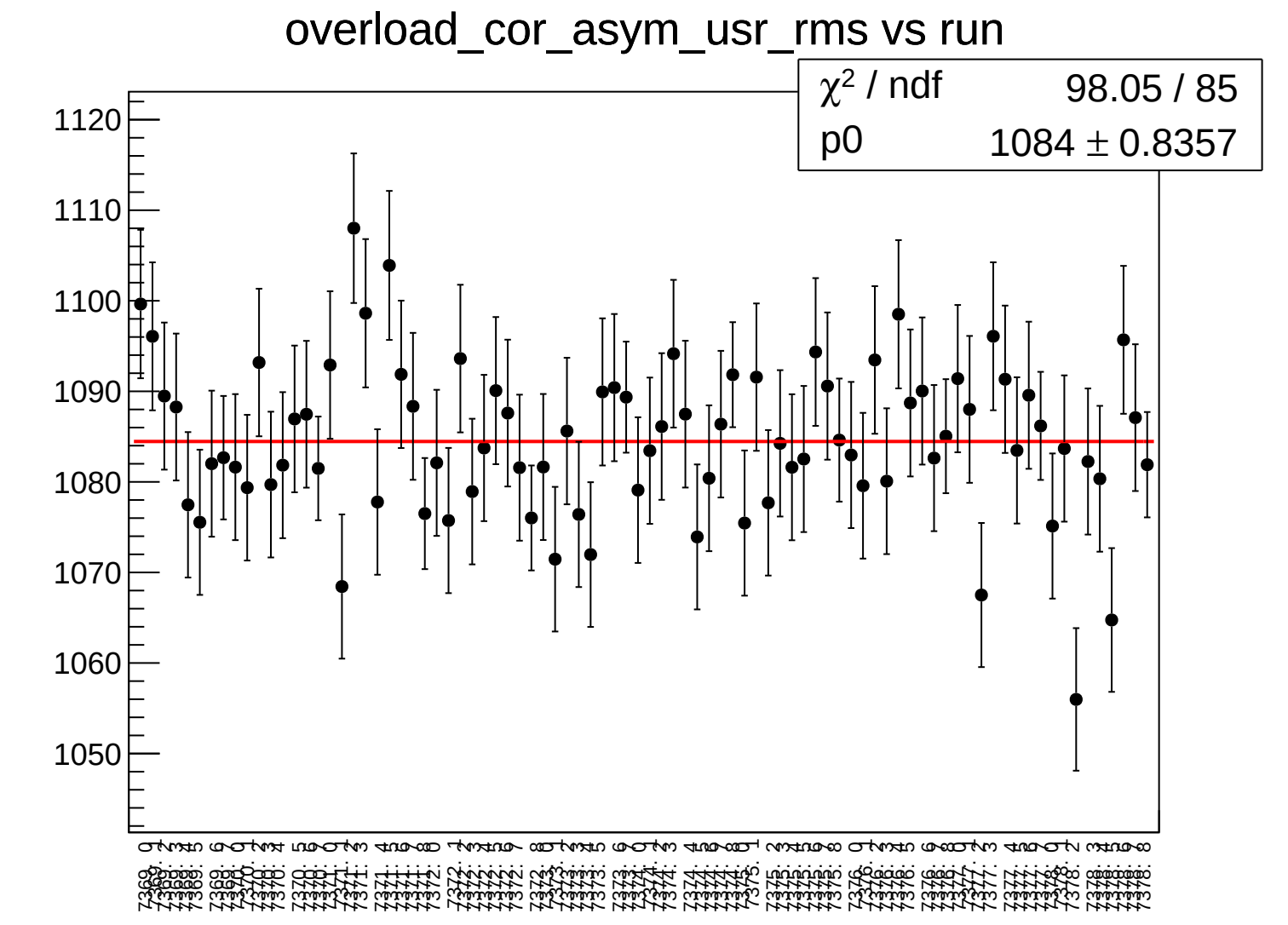

cor_asym_usr_rms vs run
χ^2 / ndf 97.89 / 85
p0 1091 ± 0.8411
1120
1110
1100
1090
1080
1070
1060
1050

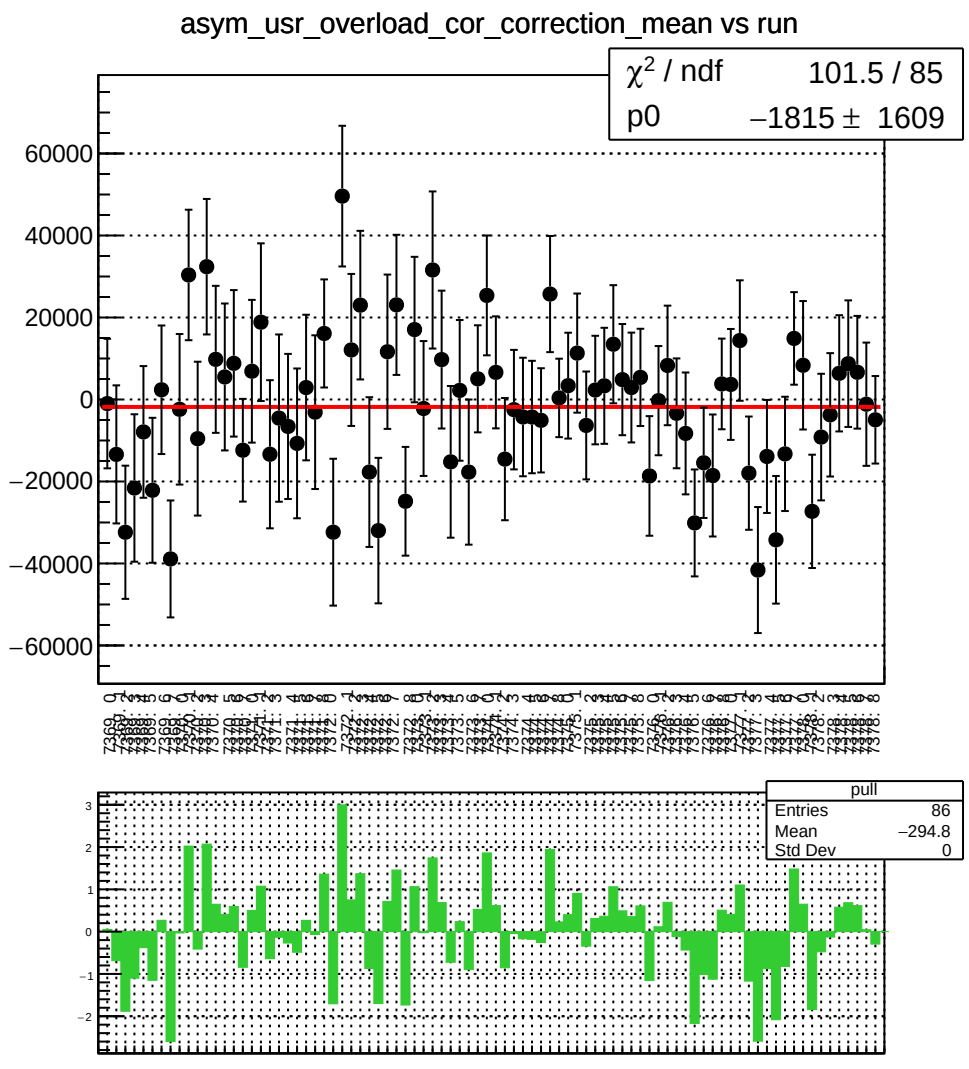

asym_usr_cor_correction_mean vs run
χ² / ndf 99.45 / 85
p0 −1978 ± 1603
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −394.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.002723
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

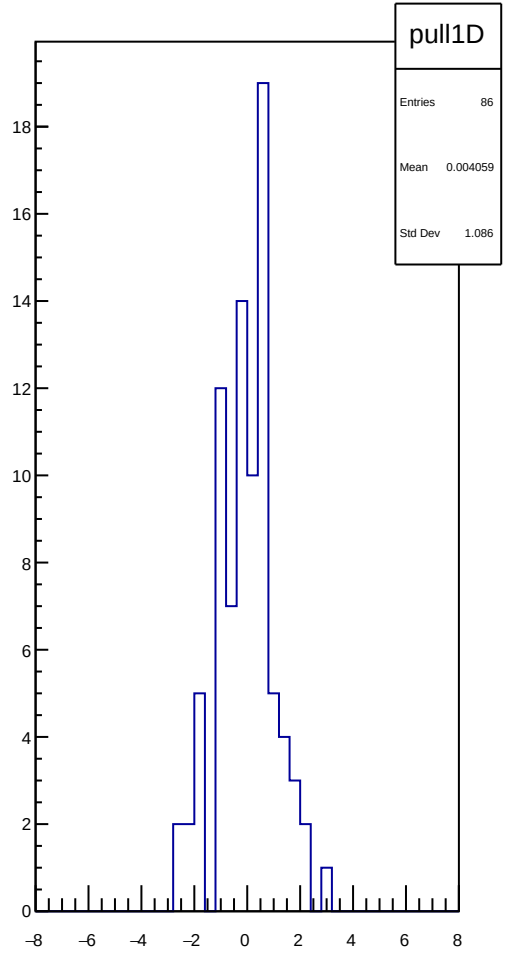

asym_usr_cor_correction_rms vs run
χ² / ndf 2.446e+04 / 85
p0 1460 ± 1.133
2000
1900
1800
1700
1600
1500
1400
1300
1200

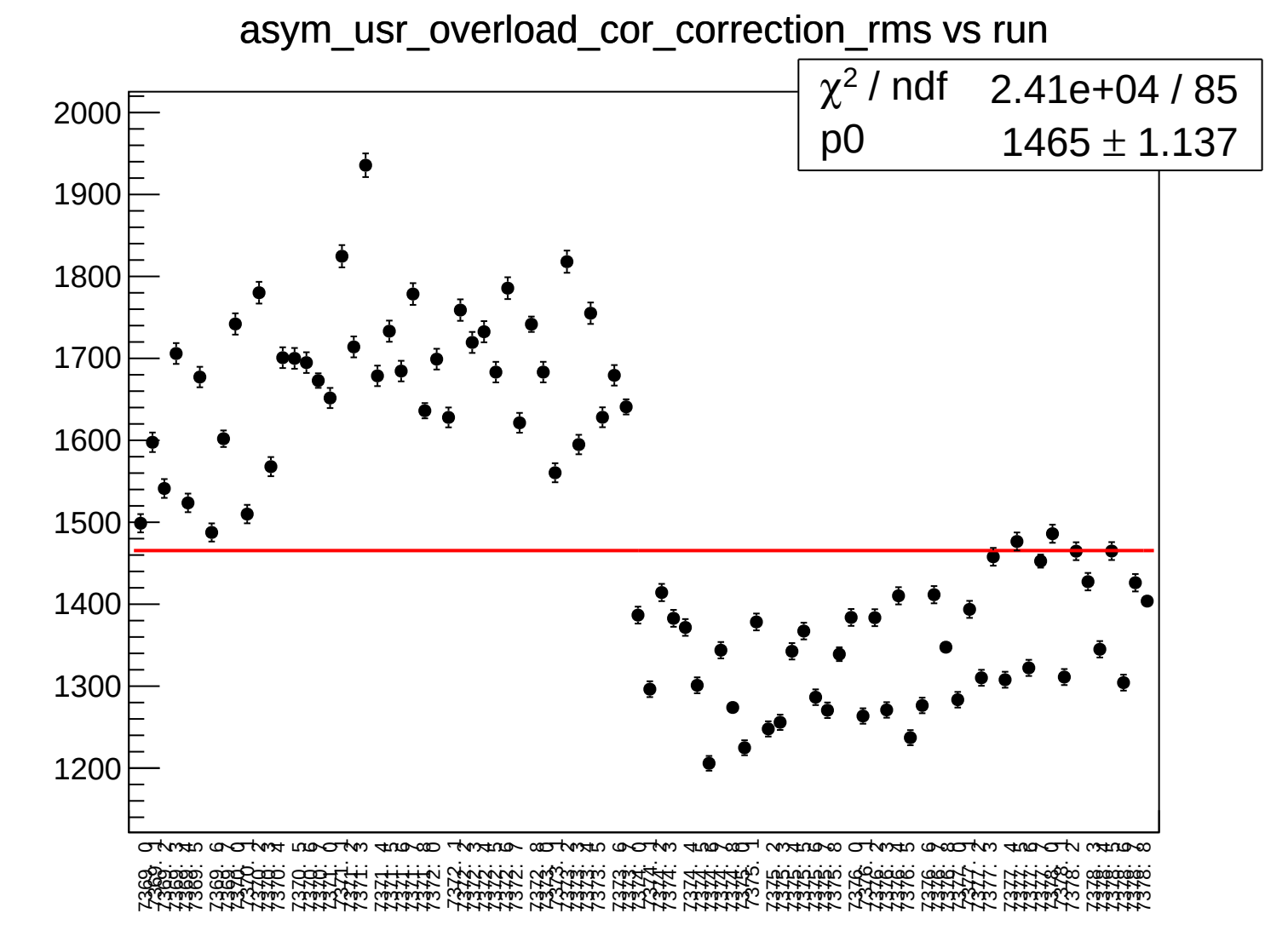

overload_cor_asym_usr_mean vs run
χ² / ndf 120.5 / 85
p0 3399 ± 1182
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 316.3
Std Dev 0
2
1
0
−1
−2
−3

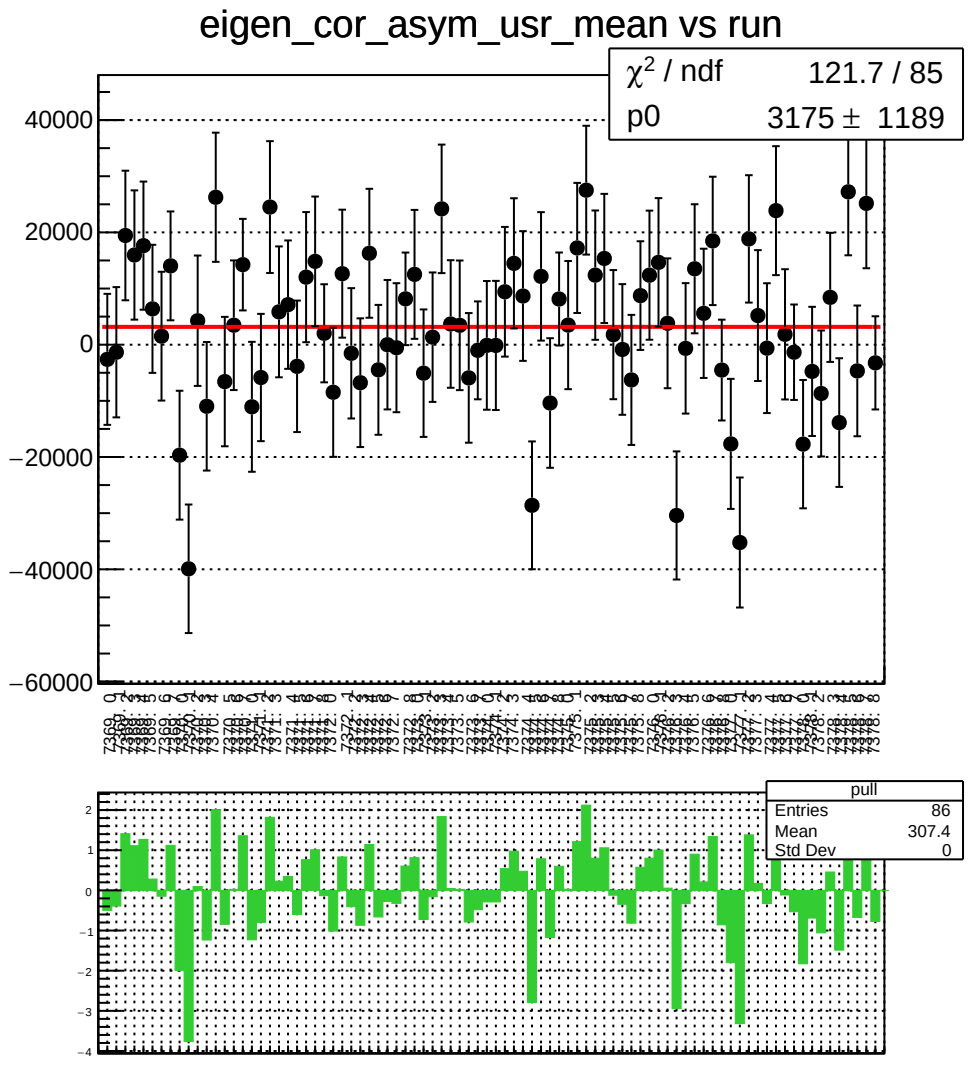

pull1D
Entries 86
Mean −0.005652
Std Dev 1.184
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

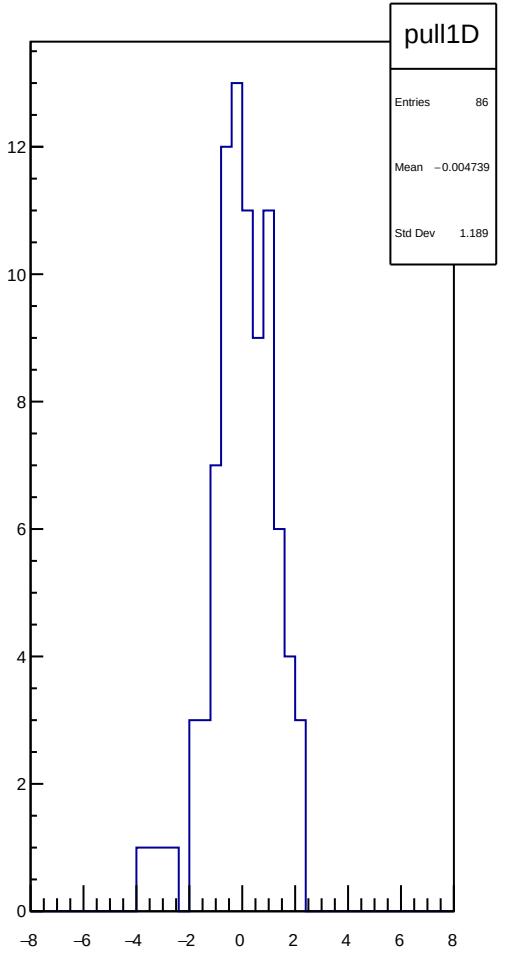

overload_cor_asym_usr_rms vs run
χ² / ndf 98.05 / 85
p0 1084 ± 0.8357
1120
1110
1100
1090
1080
1070
1060
1050

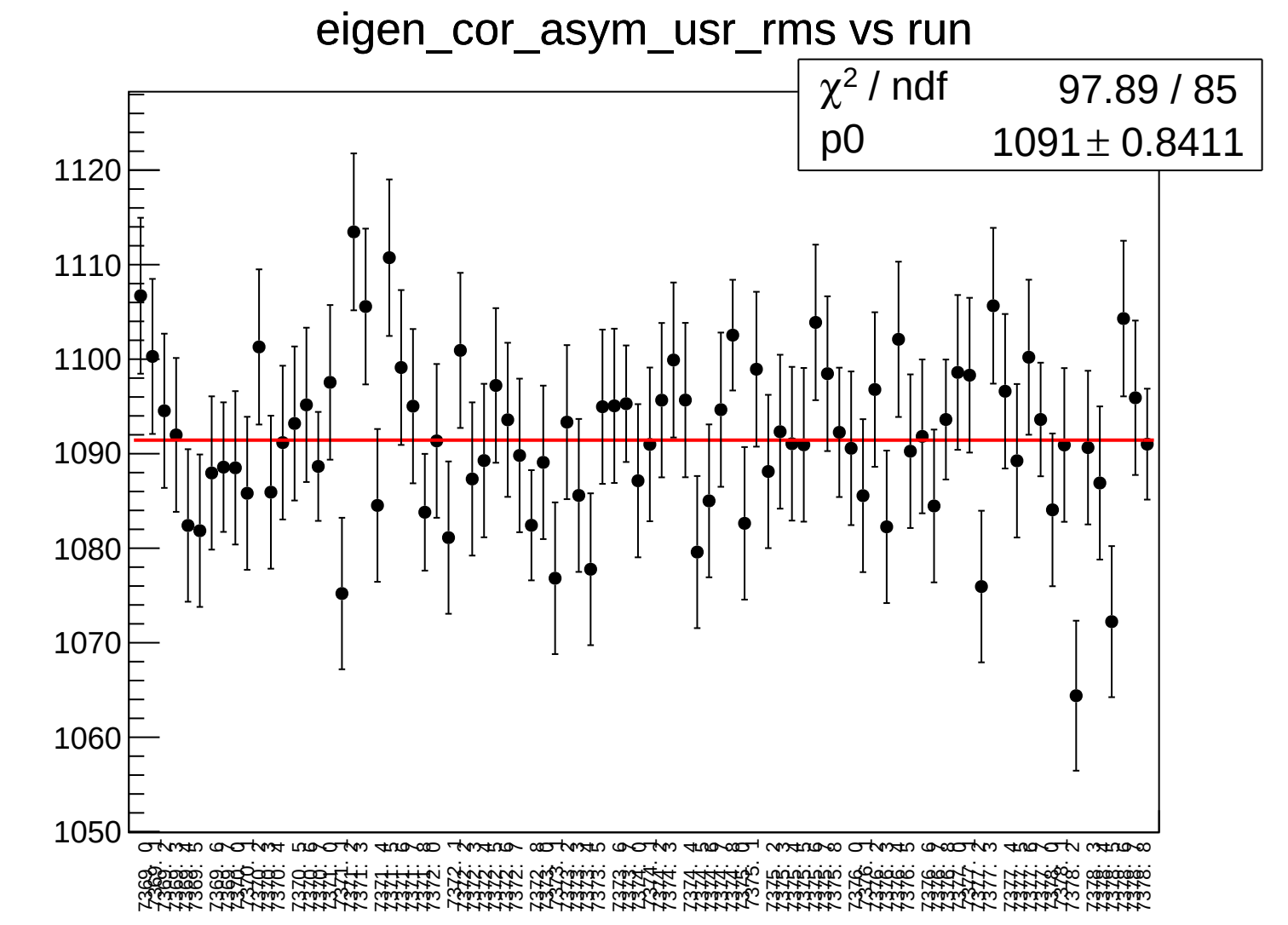

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 101.5 / 85
p0 −1815 ± 1609
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −294.8
Std Dev 0
3
2
1
0
−1
−2

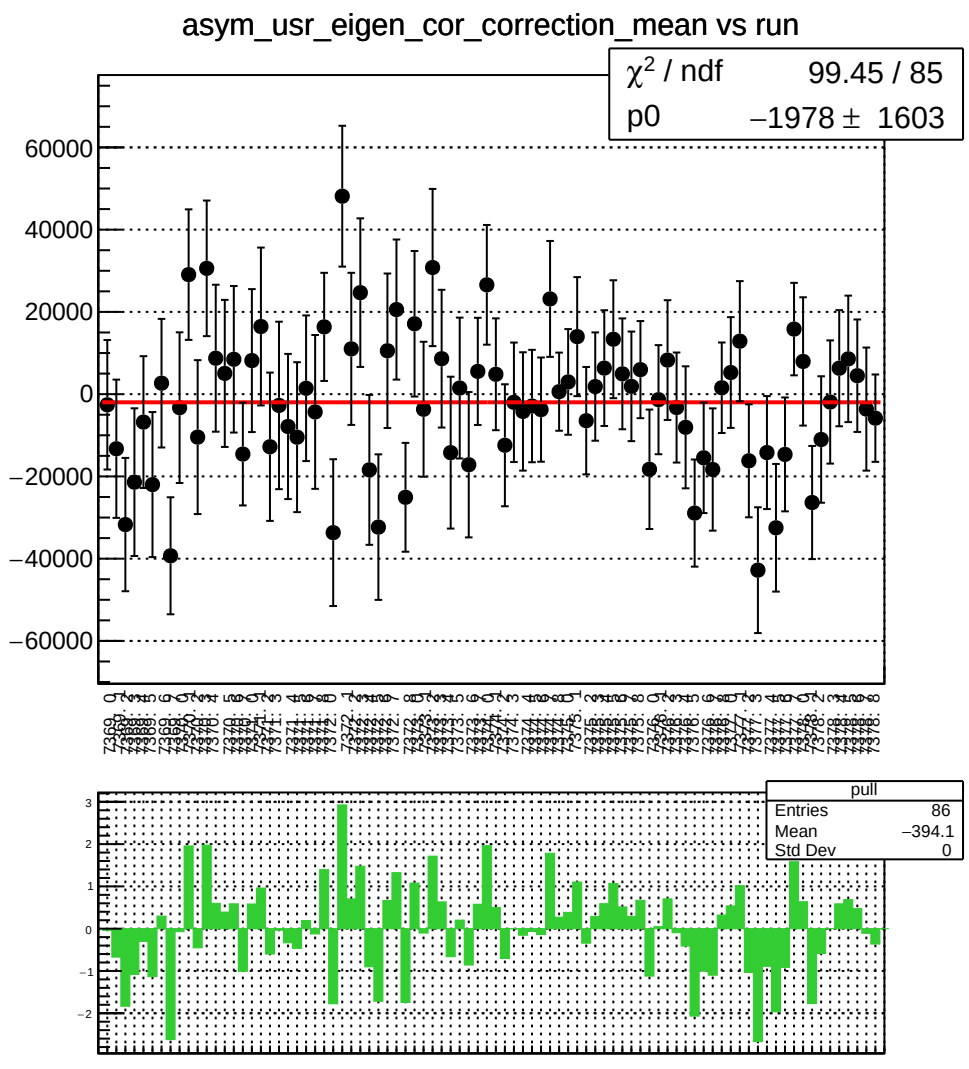

pull1D
Entries 86
Mean 0.004059
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

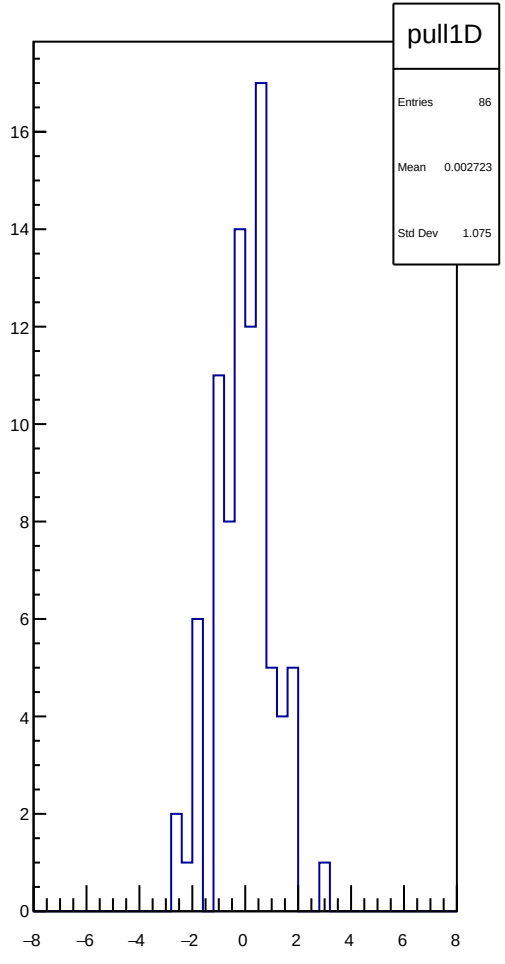

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 2.41e+04 / 85
p0 1465 ± 1.137
2000
1900
1800
1700
1600
1500
1400
1300
1200

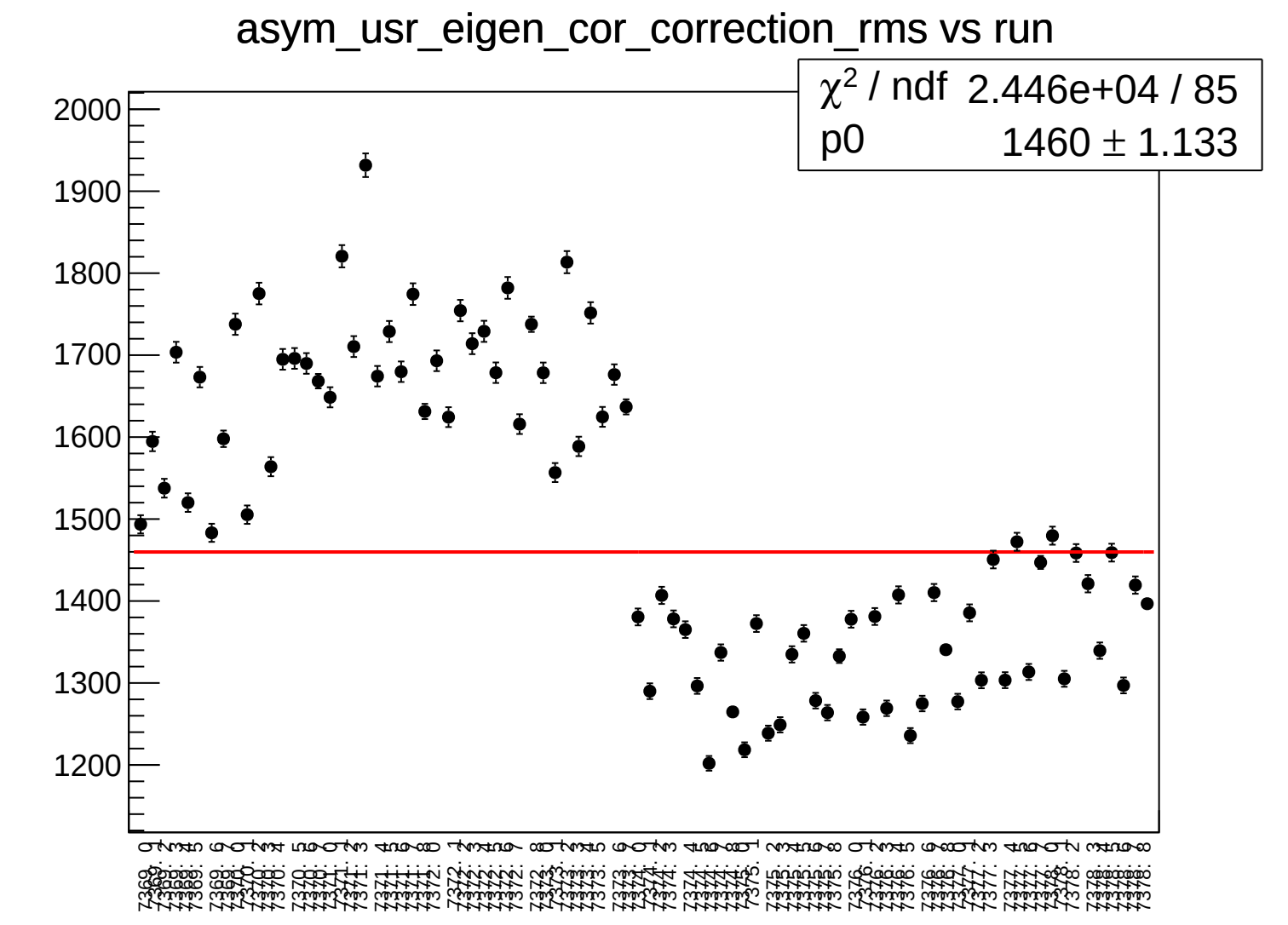

eigen_cor_asym_usr_mean vs run
χ² / ndf 121.7 / 85
p0 3175 ± 1189
pull
Entries 86
Mean 307.4
Std Dev 0

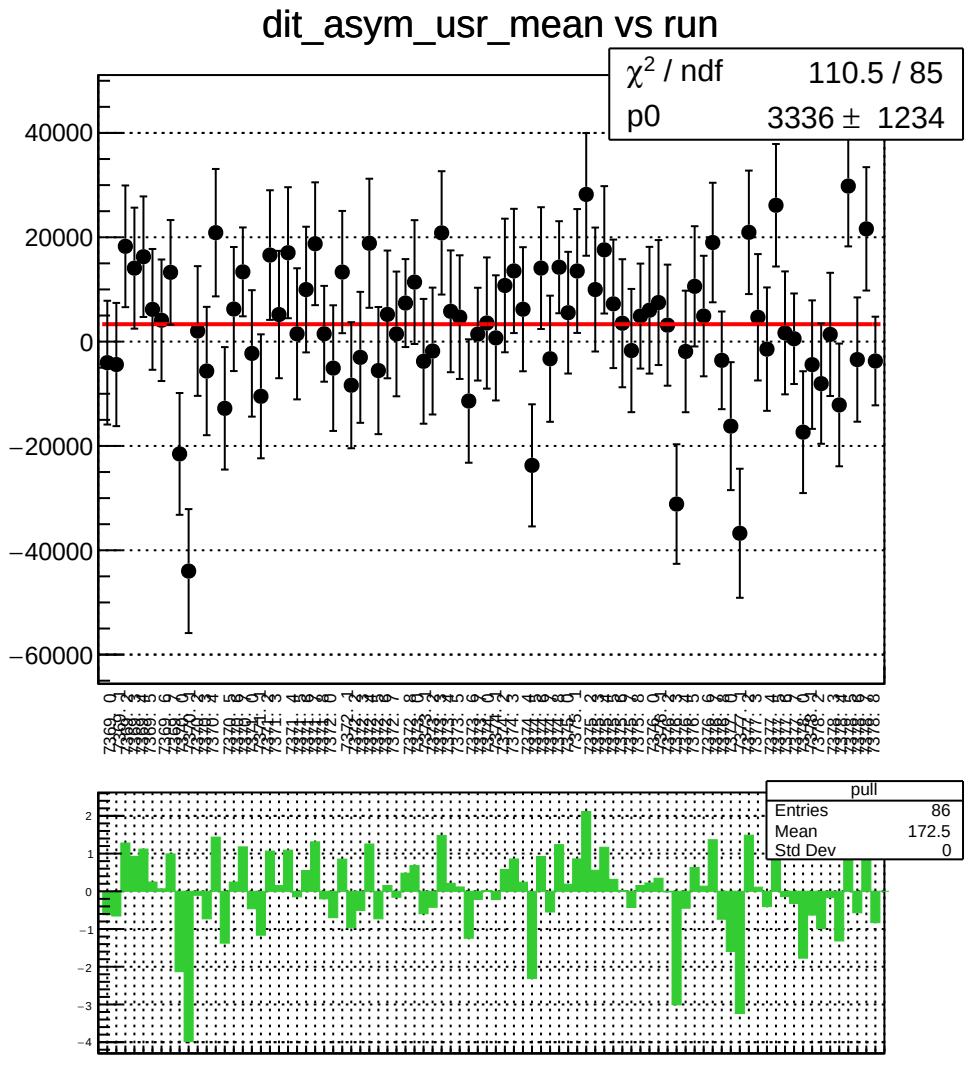

pull1D
Entries 86
Mean −0.004739
Std Dev 1.189

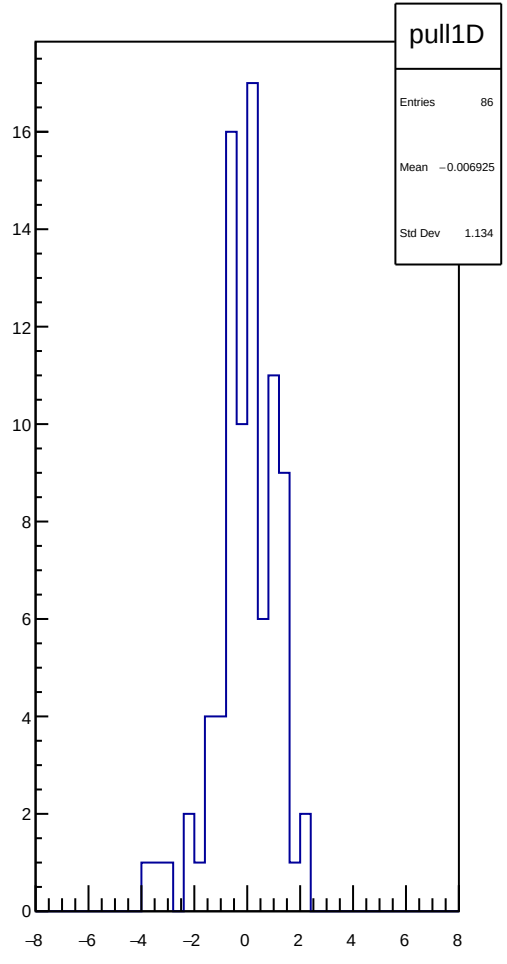

eigen_cor_asym_usr_rms vs run
χ² / ndf 97.89 / 85
p0 1091 ± 0.8411
1120
1110
1100
1090
1080
1070
1060
1050

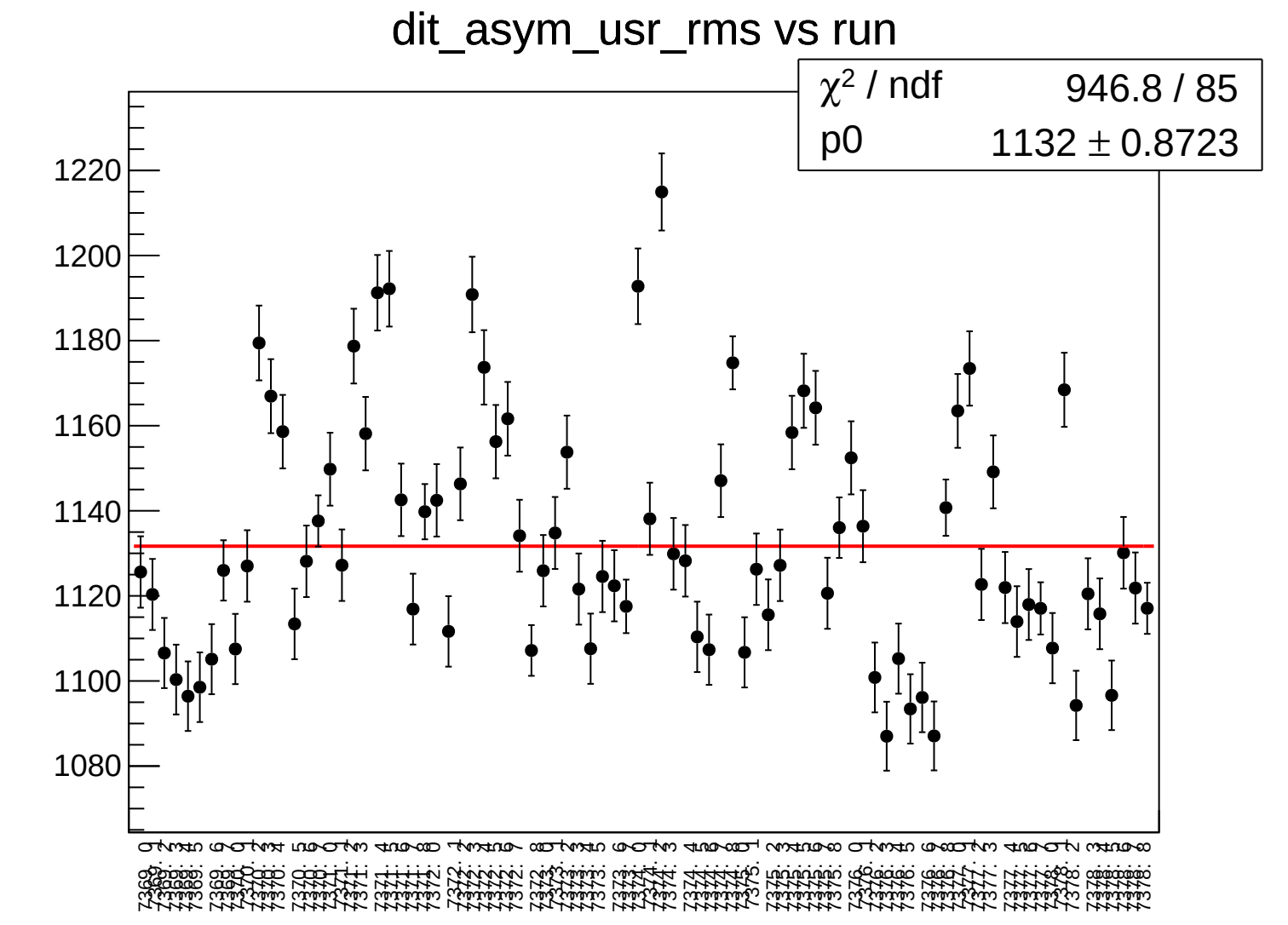

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 99.45 / 85
p0 −1978 ± 1603
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −394.1
Std Dev 0
3
2
1
0
−1
−2

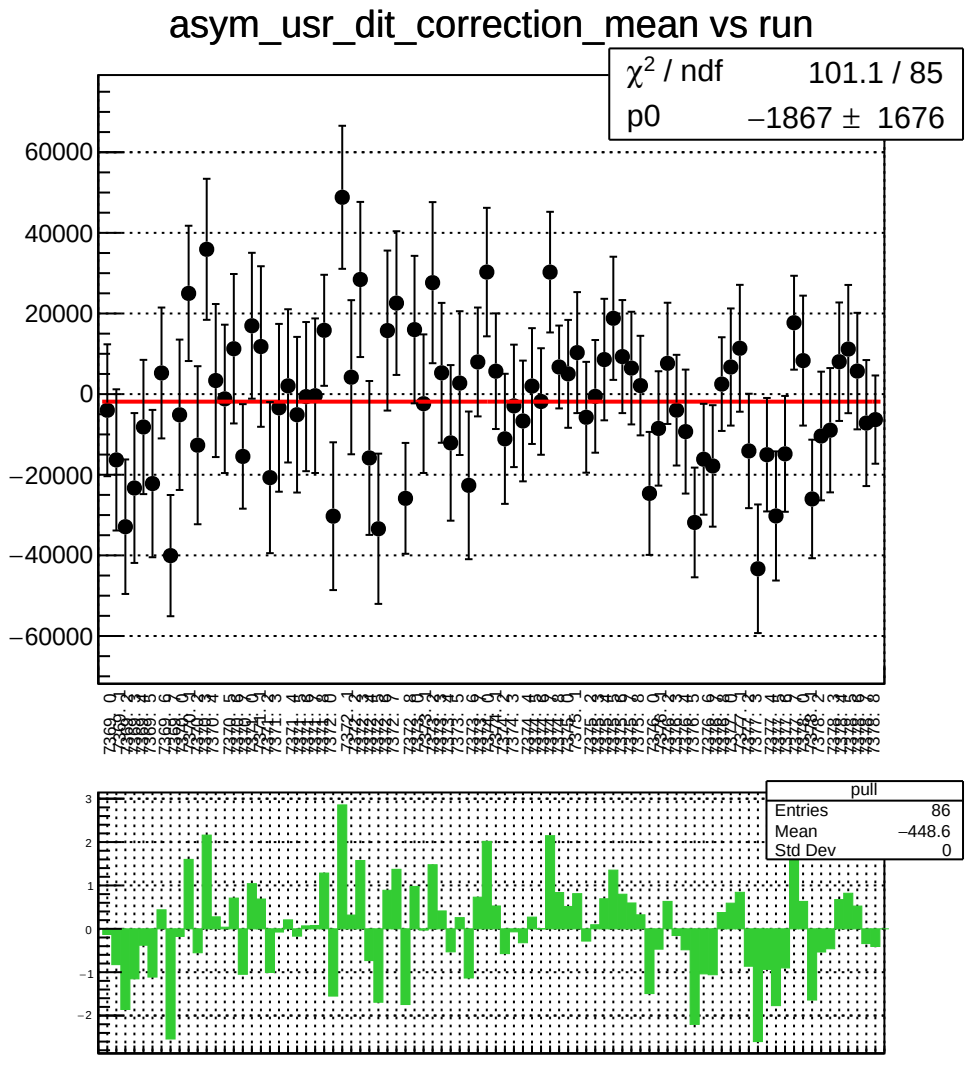

pull1D
Entries 86
Mean 0.002723
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

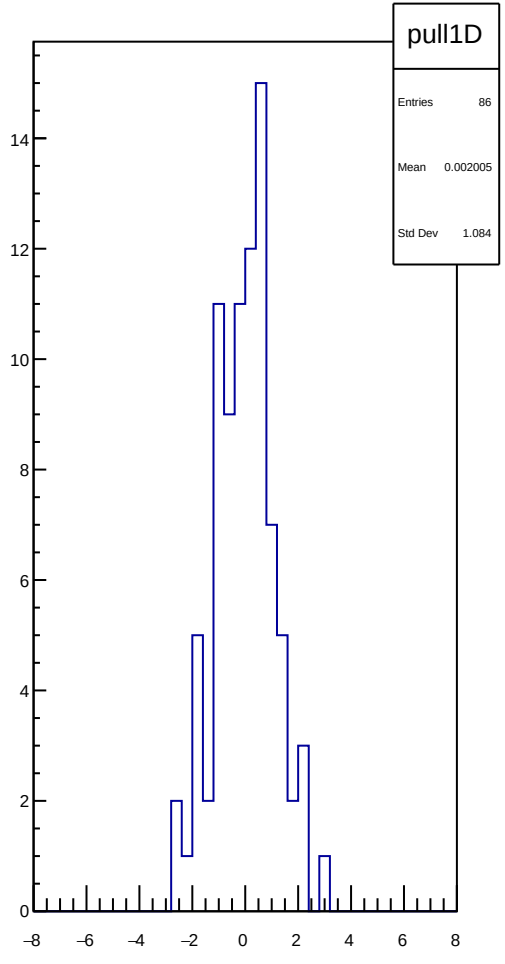

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 2.446e+04 / 85
p0 1460 ± 1.133
2000
1900
1800
1700
1600
1500
1400
1300
1200

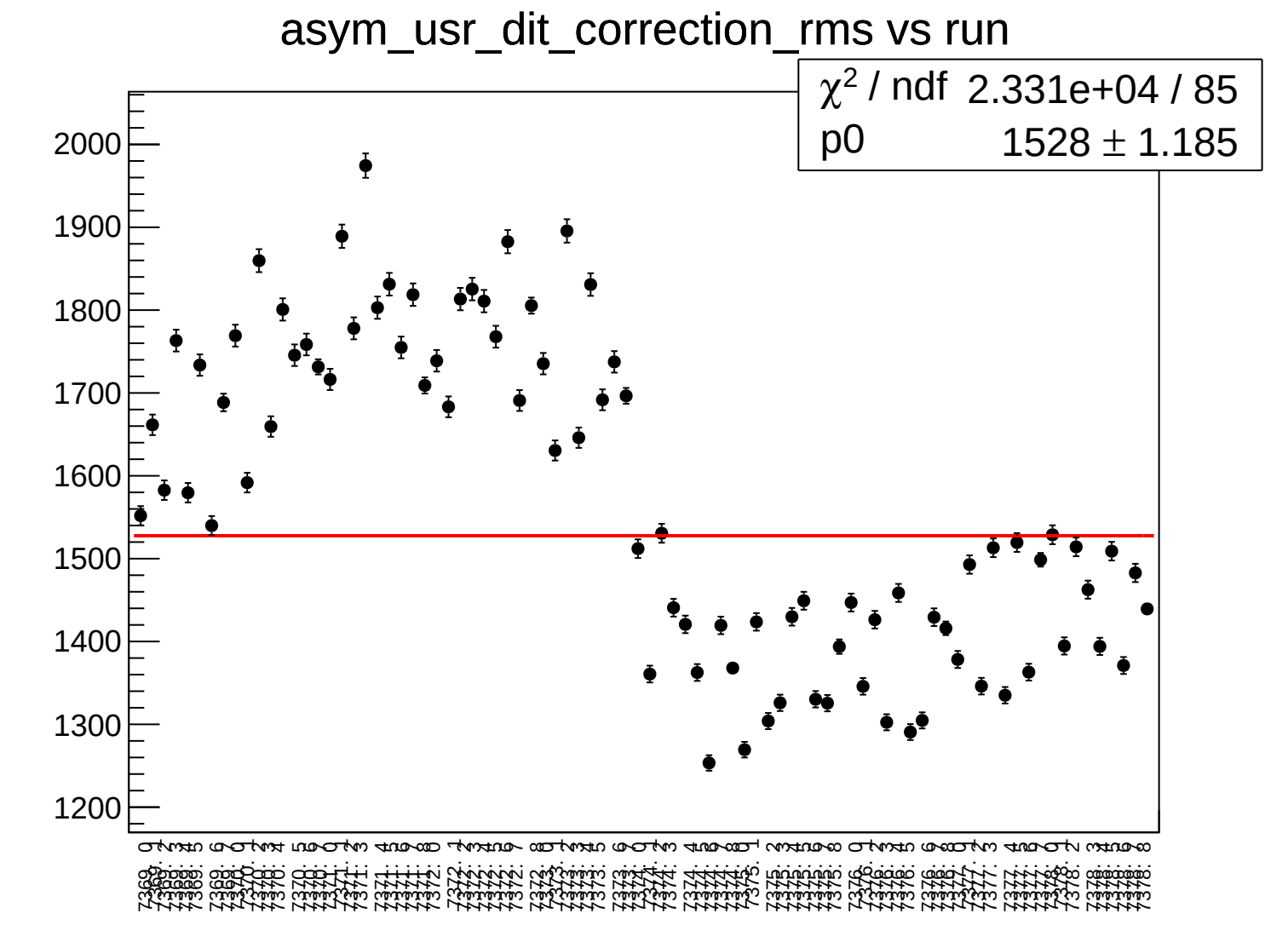

dit_asym_usr_mean vs run
χ² / ndf 110.5 / 85
p0 3336 ± 1234
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 172.5
Std Dev 0
2
1
0
−1
−2
−3
−4

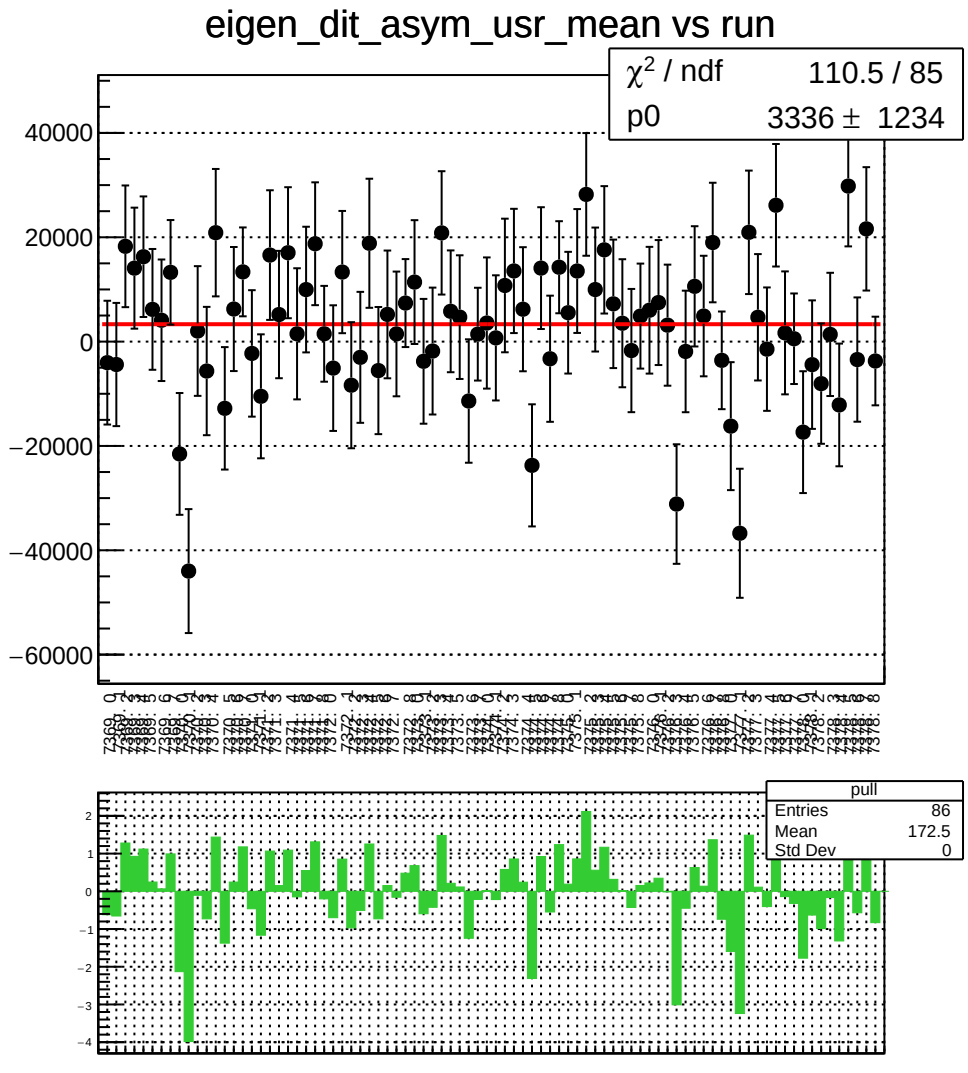

pull1D
Entries 86
Mean −0.006925
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

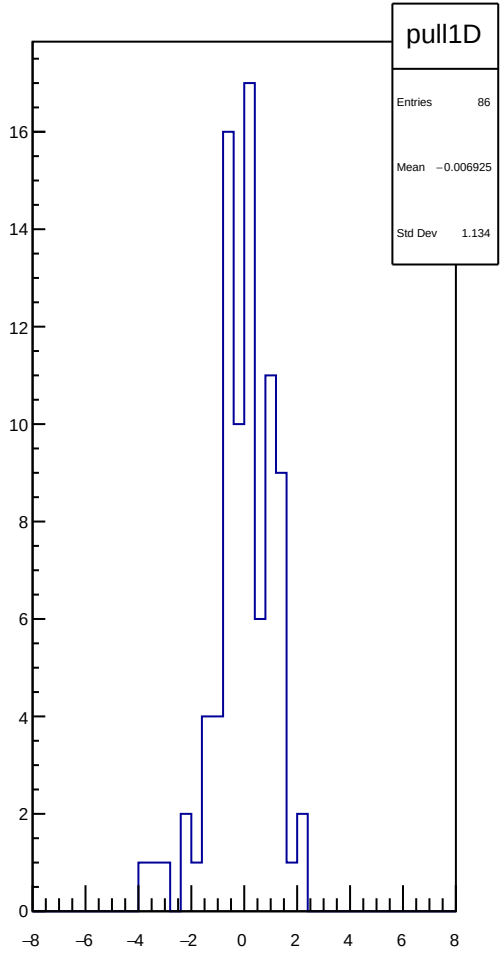

dit_asym_usr_rms vs run
χ² / ndf 946.8 / 85
p0 1132 ± 0.8723
1220
1200
1180
1160
1140
1120
1100
1080

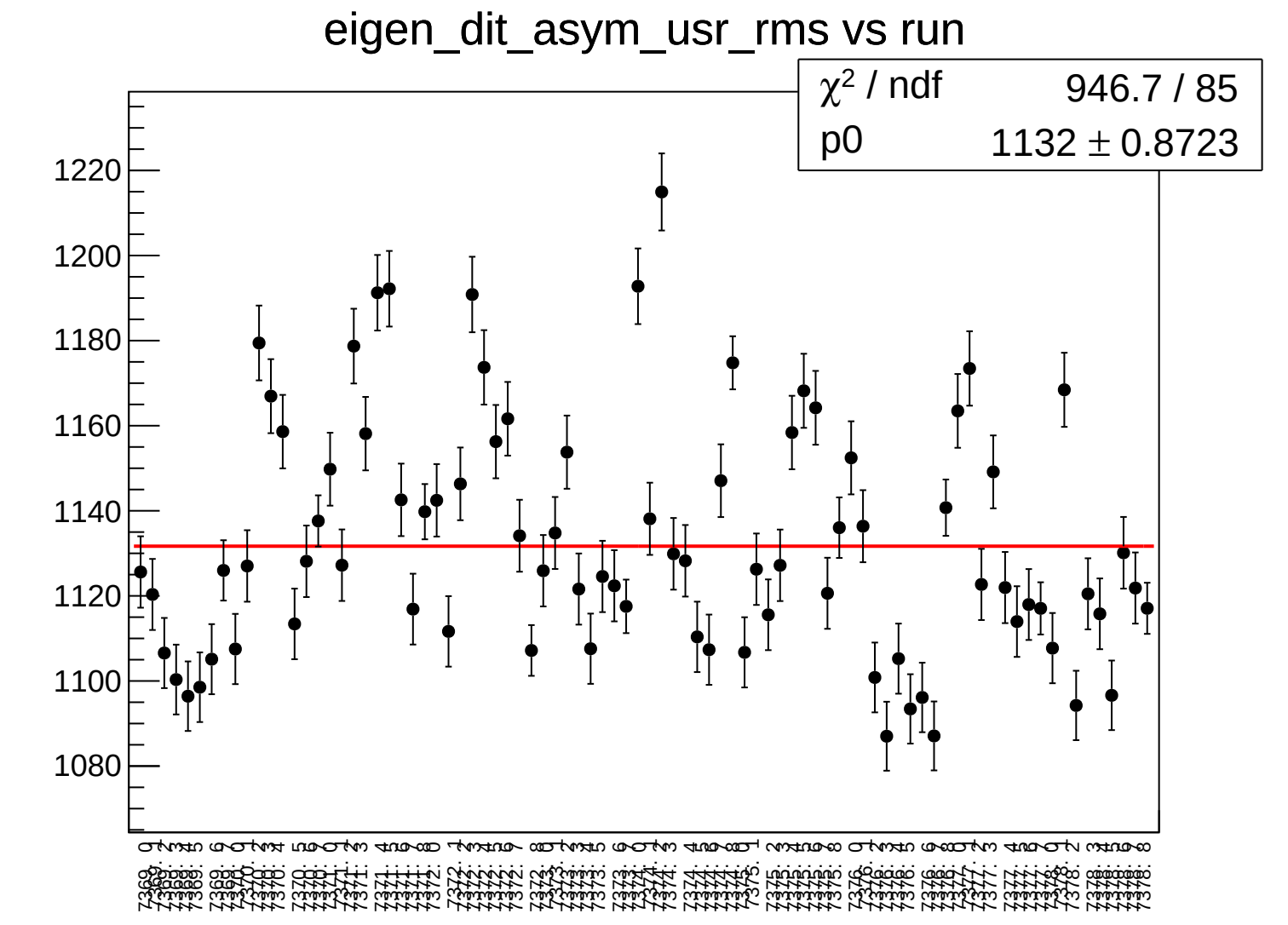

asym_usr_dit_correction_mean vs run
χ² / ndf 101.1 / 85
p0 −1867 ± 1676
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −448.6
Std Dev 0
3
2
1
0
−1
−2

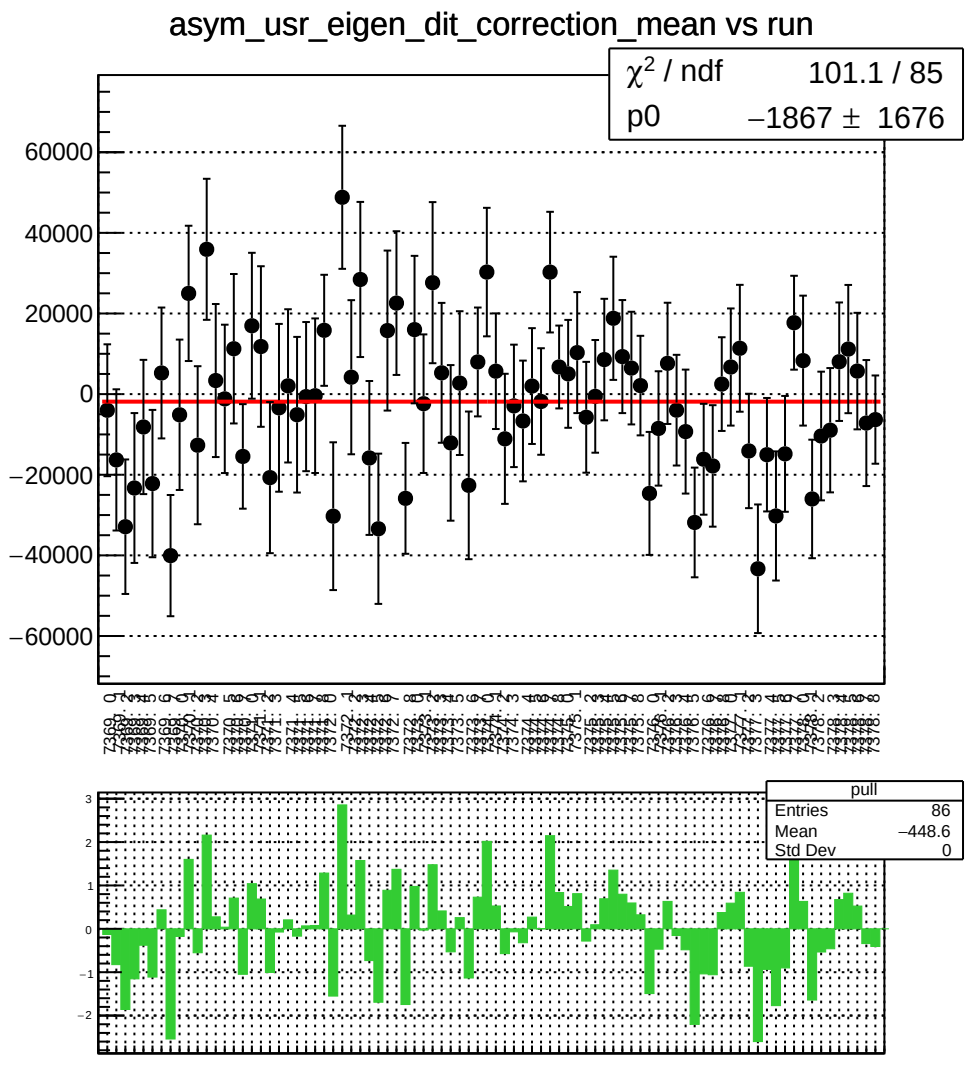

pull1D
Entries 86
Mean 0.002005
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

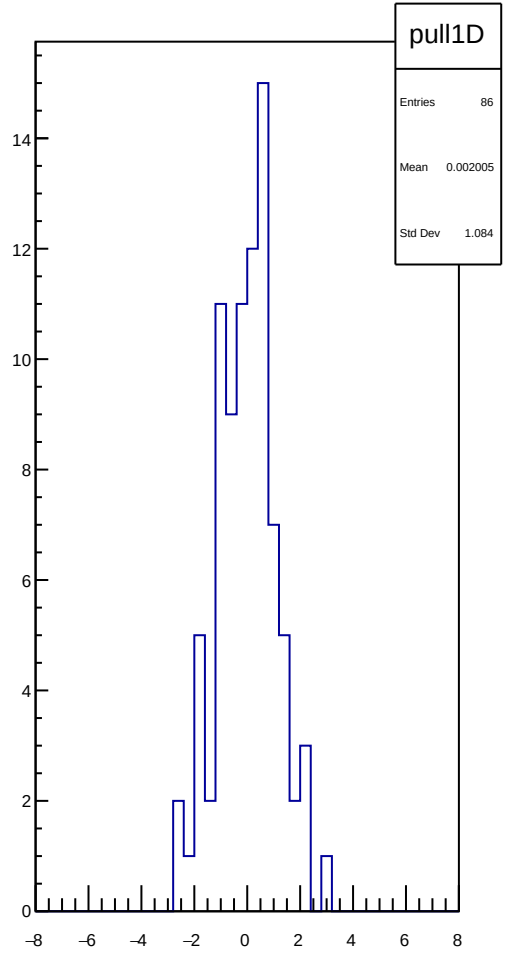

asym_usr_dit_correction_rms vs run
χ² / ndf 2.331e+04 / 85
p0 1528 ± 1.185
2000
1900
1800
1700
1600
1500
1400
1300
1200

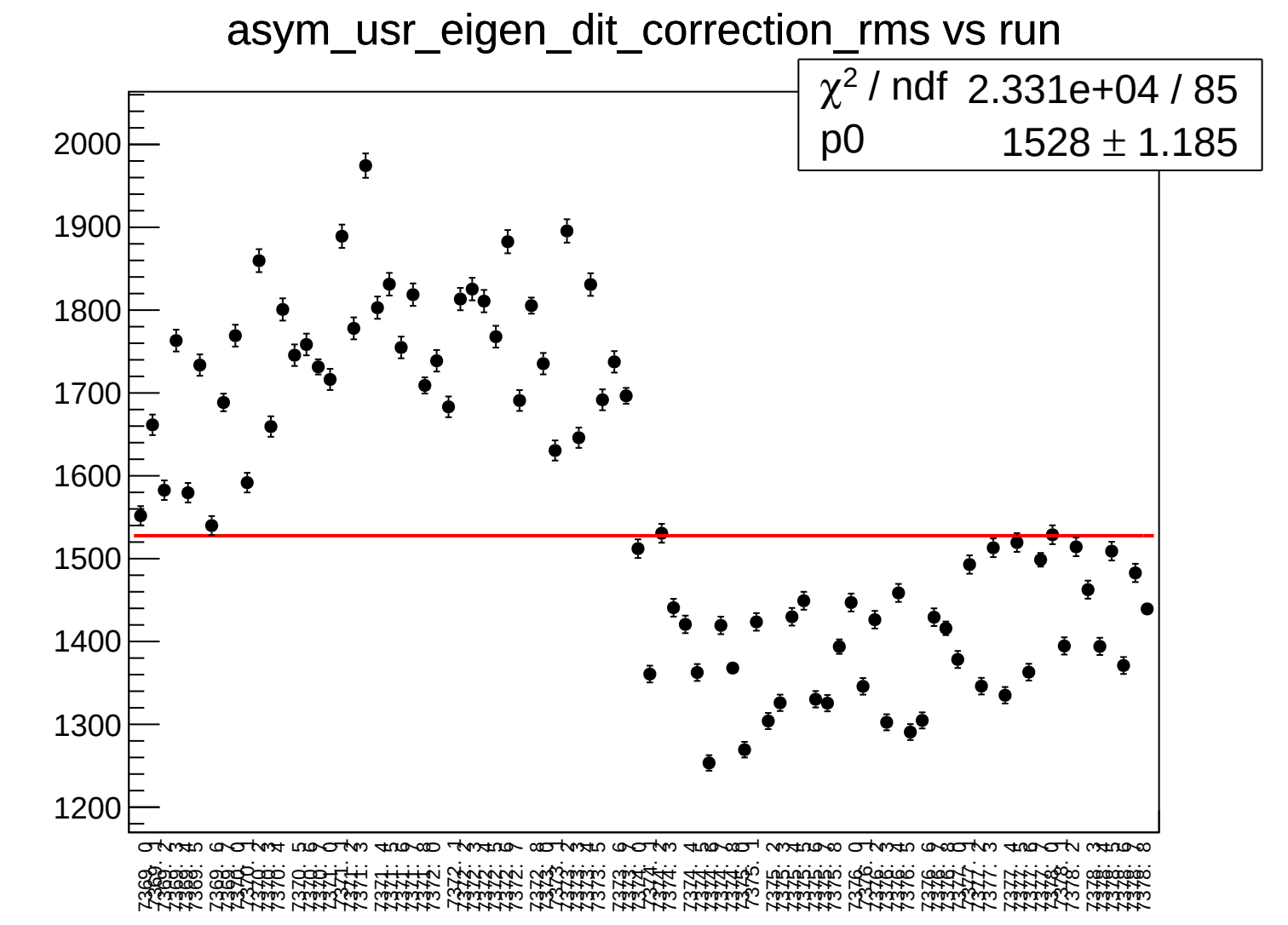

eigen_dit_asym_usr_mean vs run
χ² / ndf 110.5 / 85
p0 3336 ± 1234
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 172.5
Std Dev 0
2
1
0
−1
−2
−3
−4

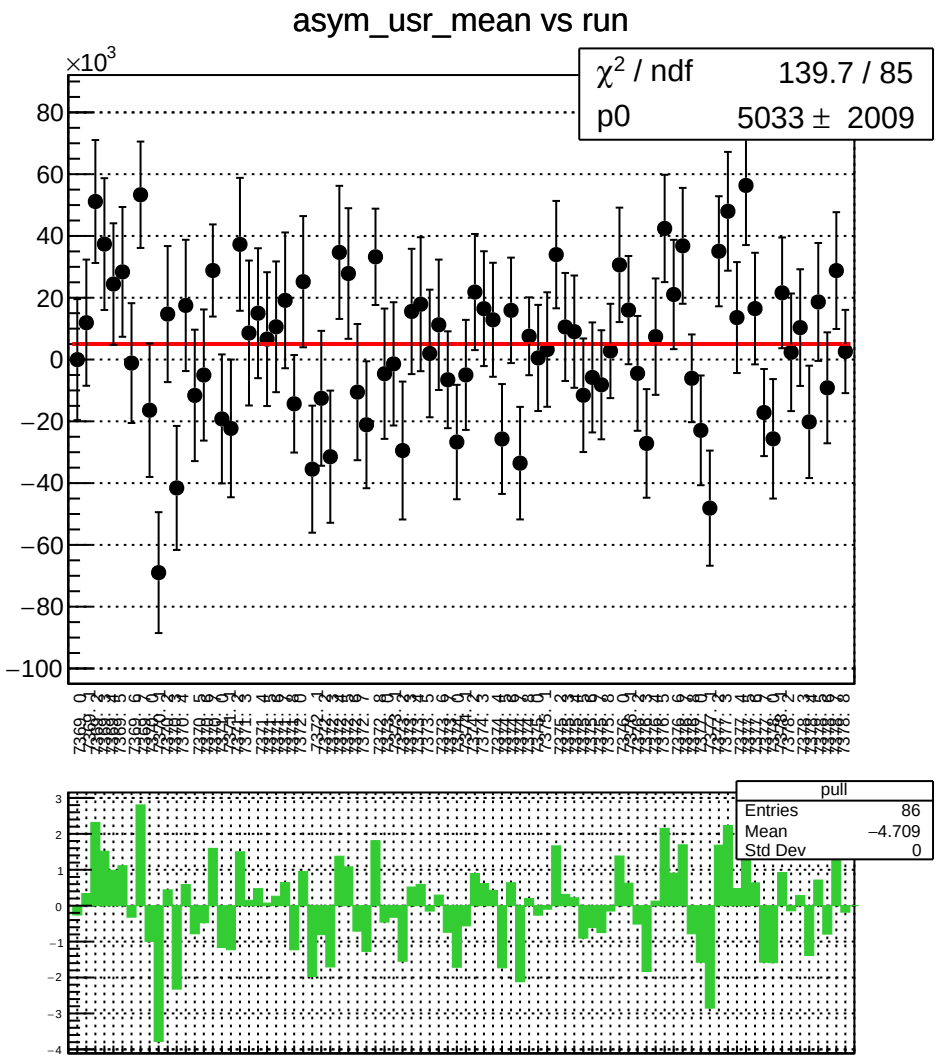

pull1D
Entries 86
Mean −0.006925
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

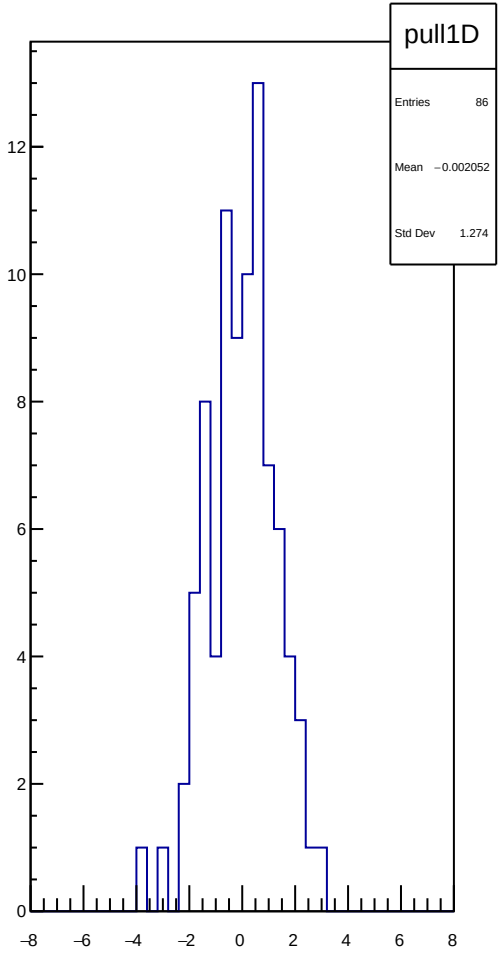

eigen_dit_asym_usr_rms vs run
χ² / ndf 946.7 / 85
p0 1132 ± 0.8723
1220
1200
1180
1160
1140
1120
1100
1080

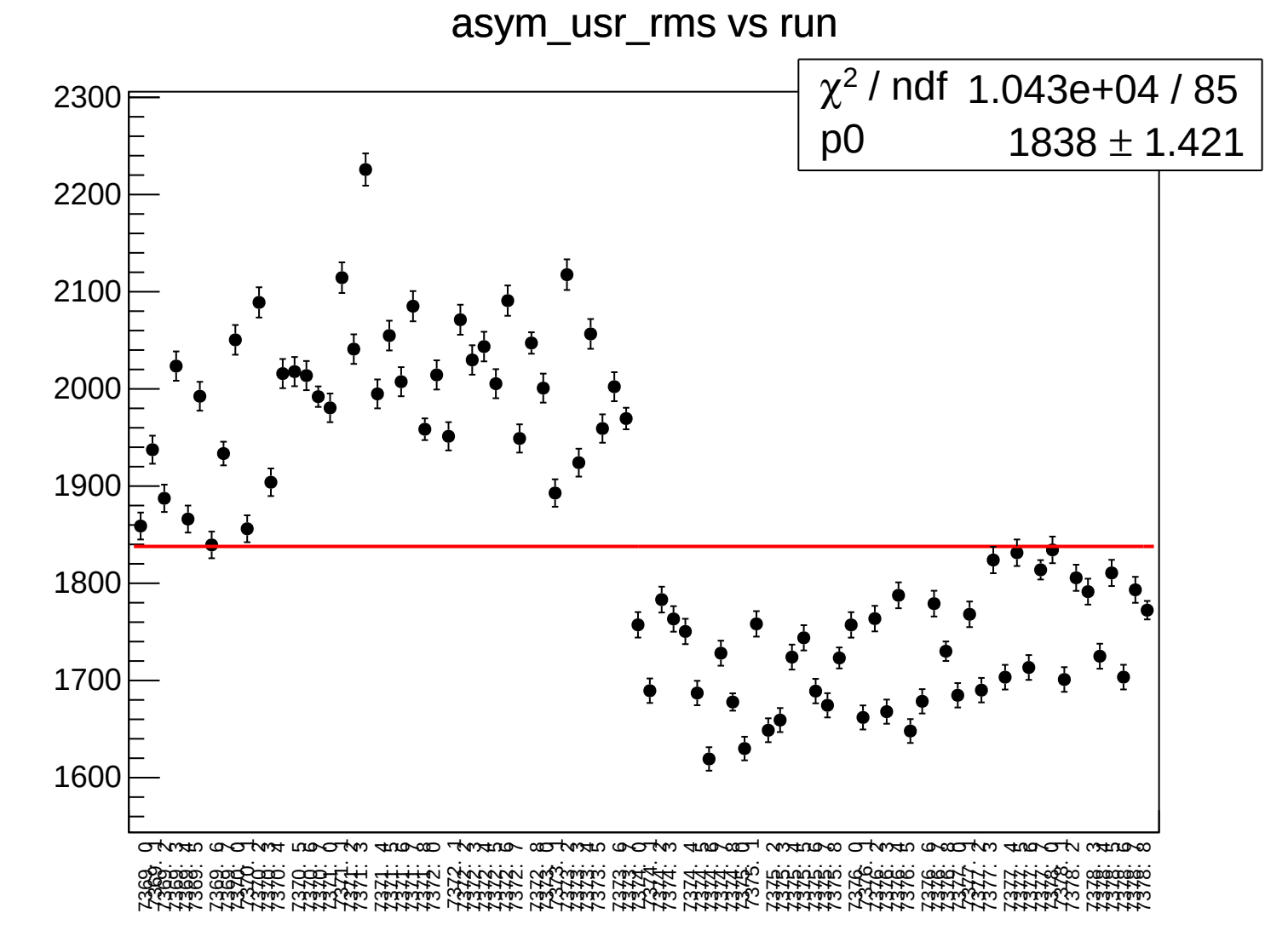

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 101.1 / 85
p0 −1867 ± 1676
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −448.6
Std Dev 0
3
2
1
0
−1
−2

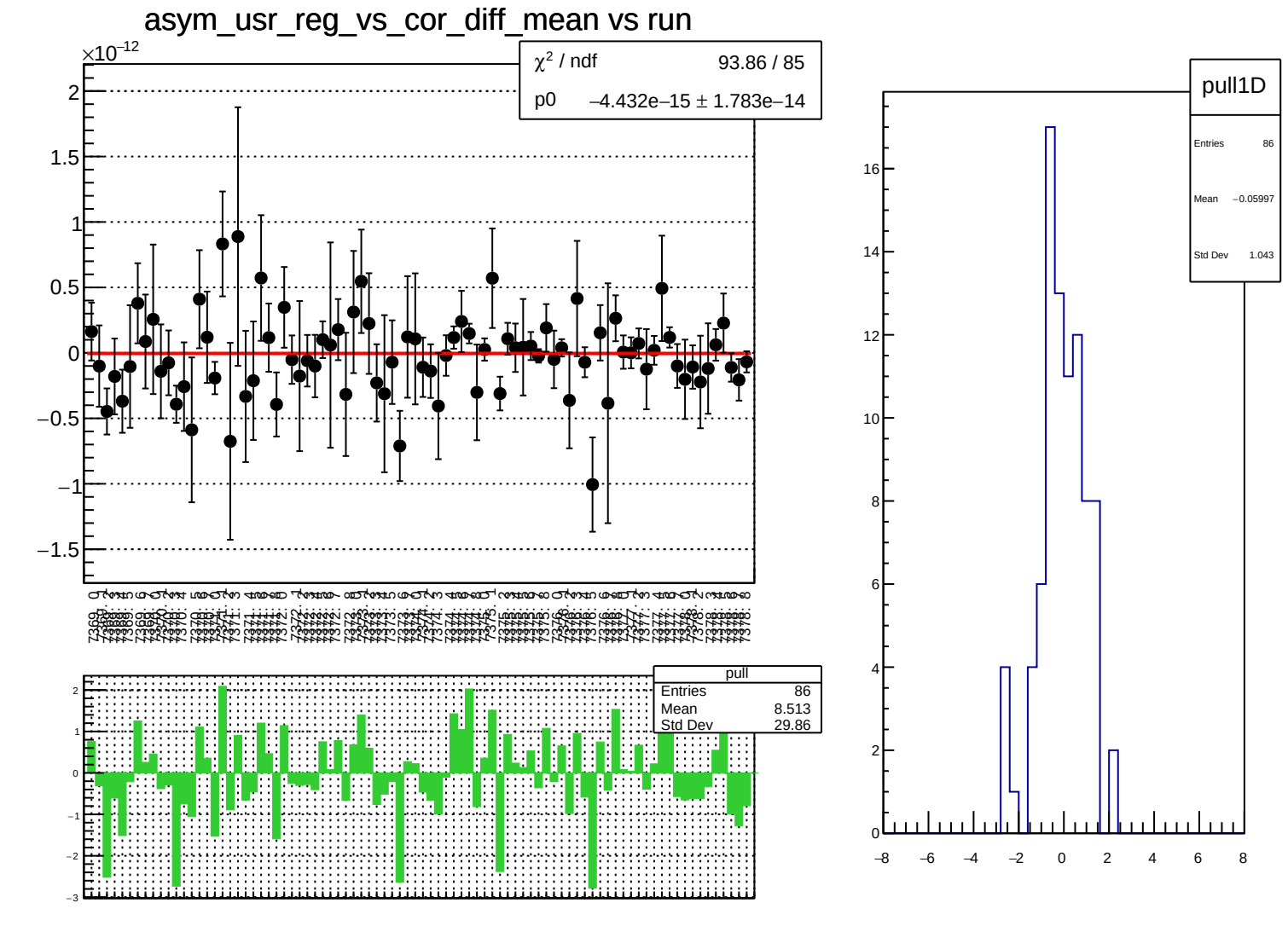

pull1D
Entries 86
Mean 0.002005
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

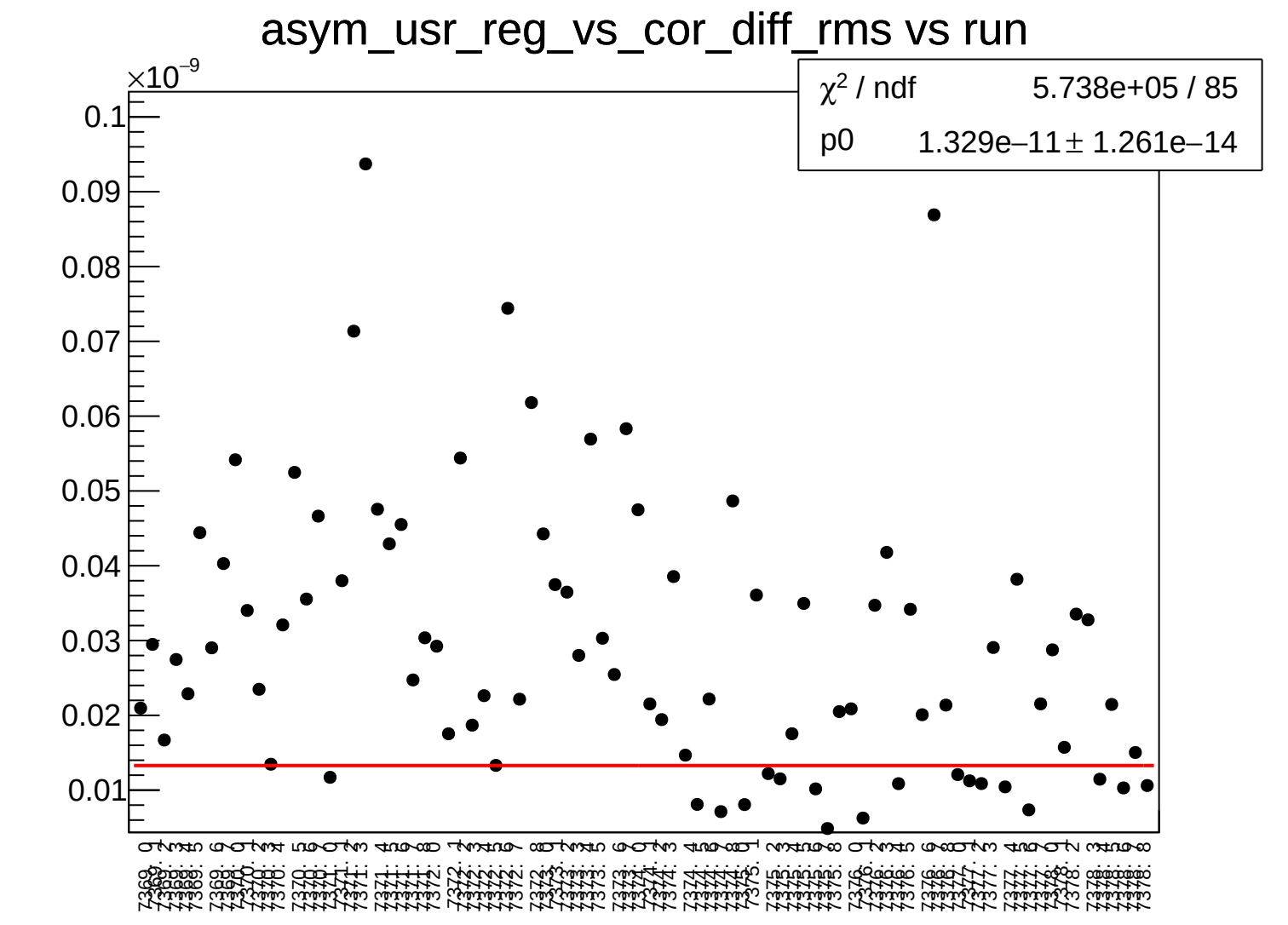

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2.331e+04 / 85
p0 1528 ± 1.185
2000
1900
1800
1700
1600
1500
1400
1300
1200

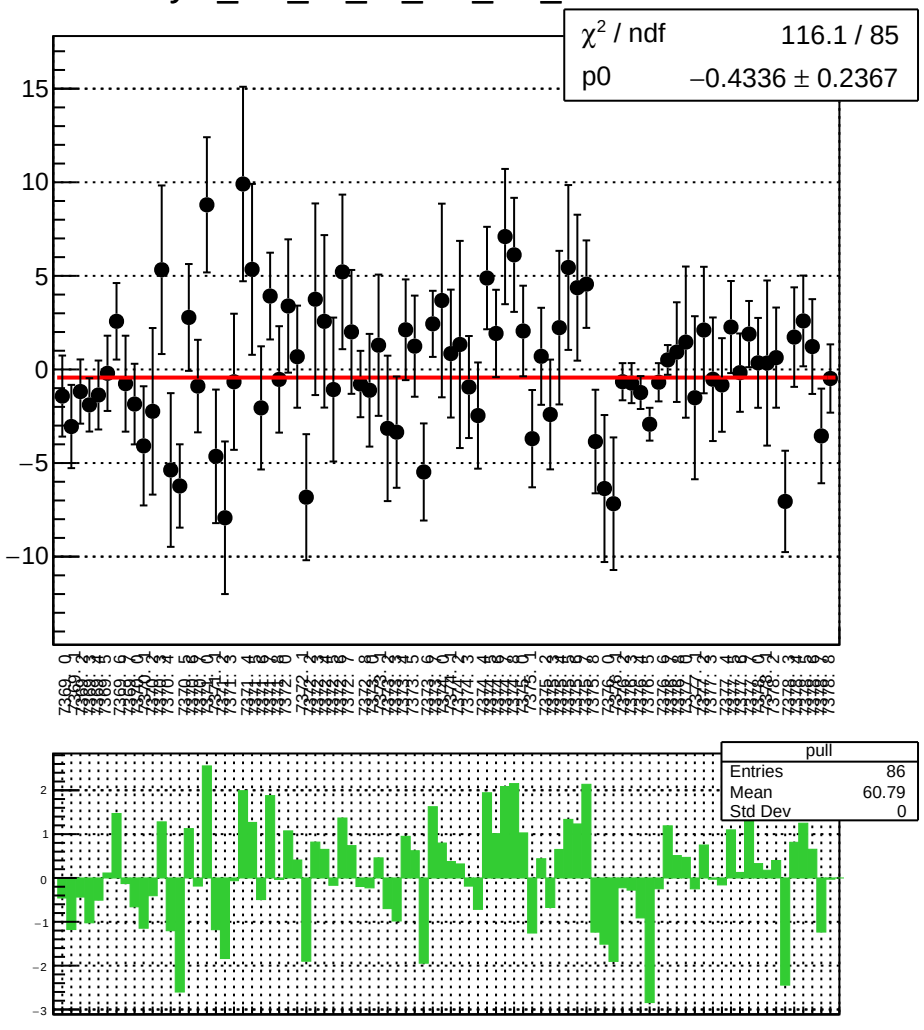

asym_usr_mean vs run
×10^3
χ² / ndf 139.7 / 85
p0 5033 ± 2009
pull
Entries 86
Mean −4.709
Std Dev 0

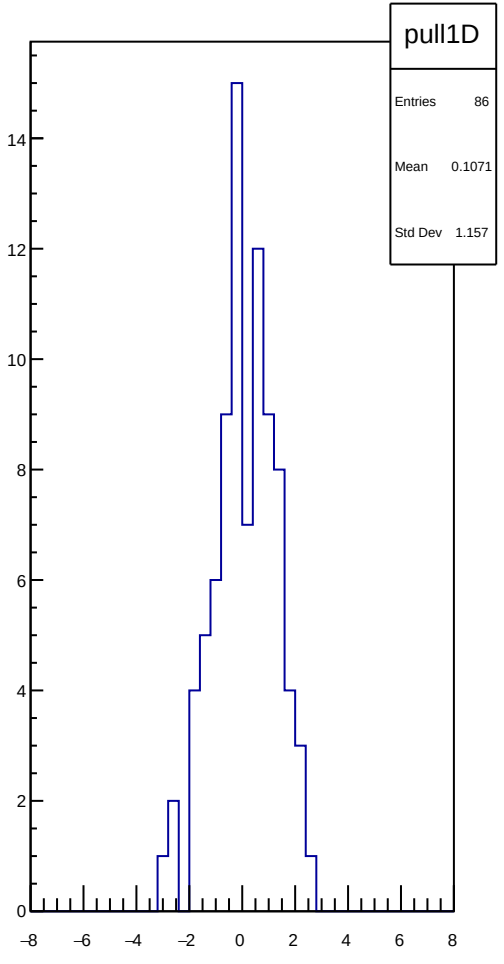

pull1D
Entries 86
Mean −0.002052
Std Dev 1.274

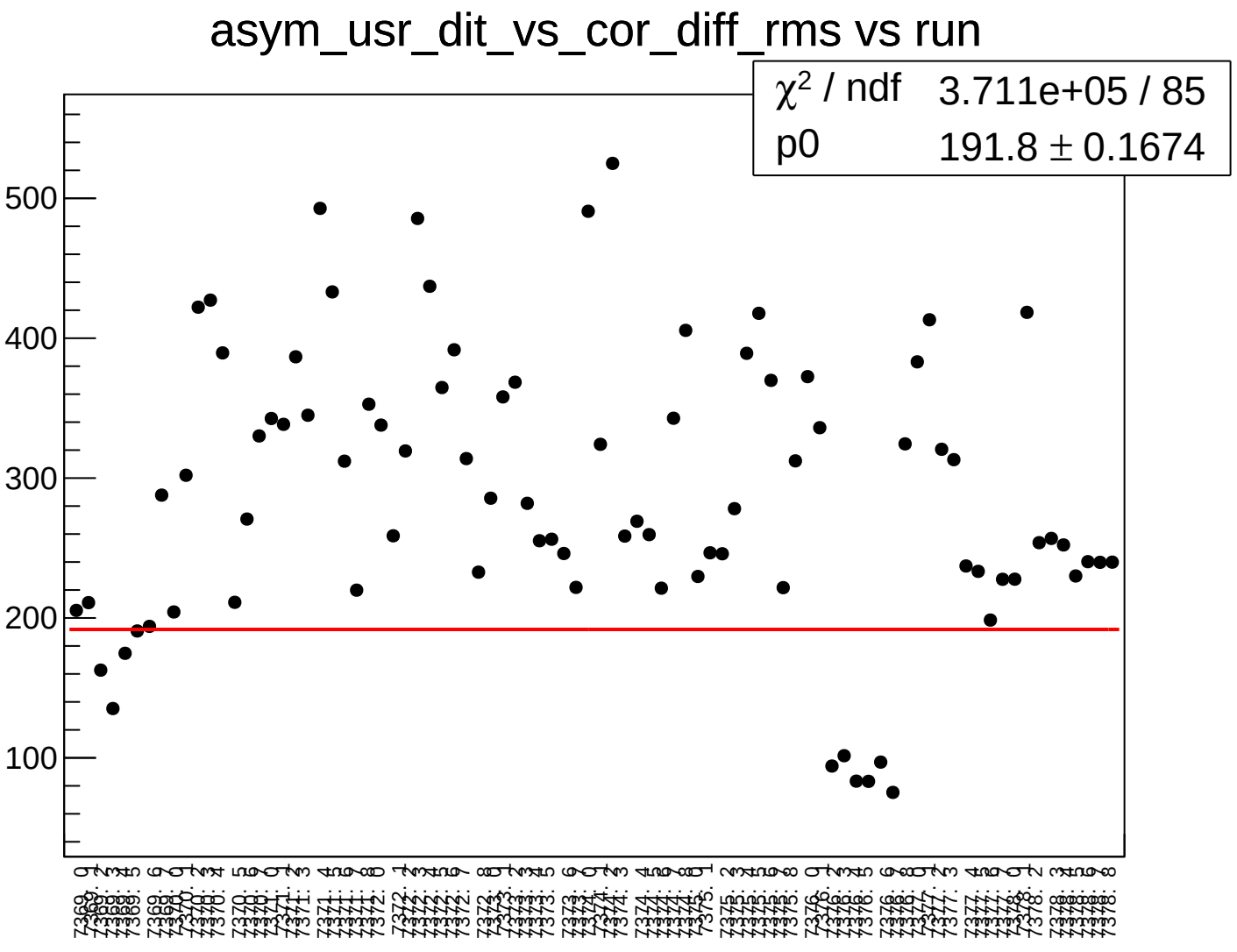

asym_usr_rms vs run
χ² / ndf 1.043e+04 / 85
p0 1838 ± 1.421
2300
2200
2100
2000
1900
1800
1700
1600

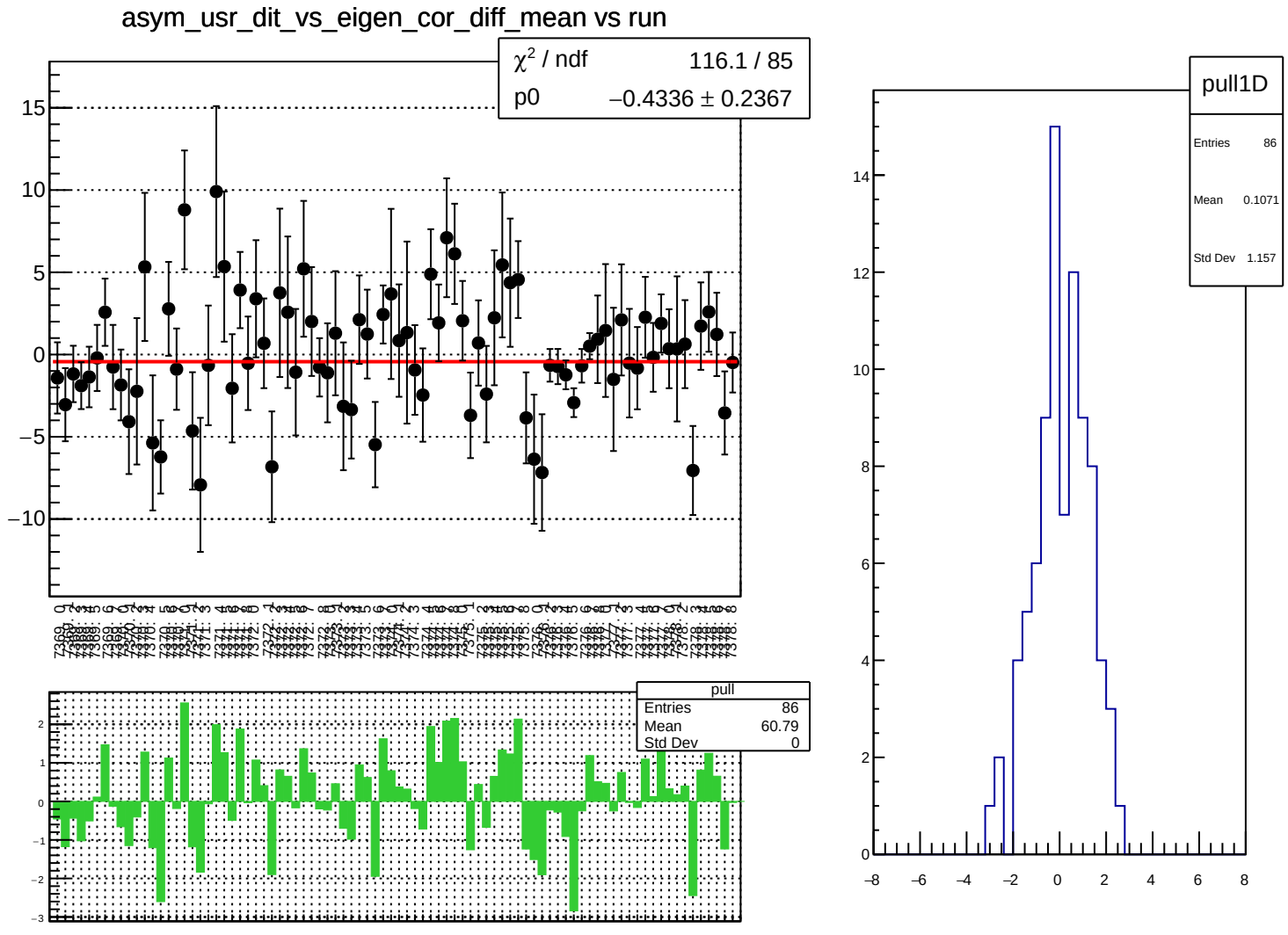

asym_usr_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 93.86 / 85
p0 −4.432e−15 ± 1.783e−14
pull
Entries 86
Mean 8.513
Std Dev 29.86
pull1D
Entries 86
Mean −0.05997
Std Dev 1.043

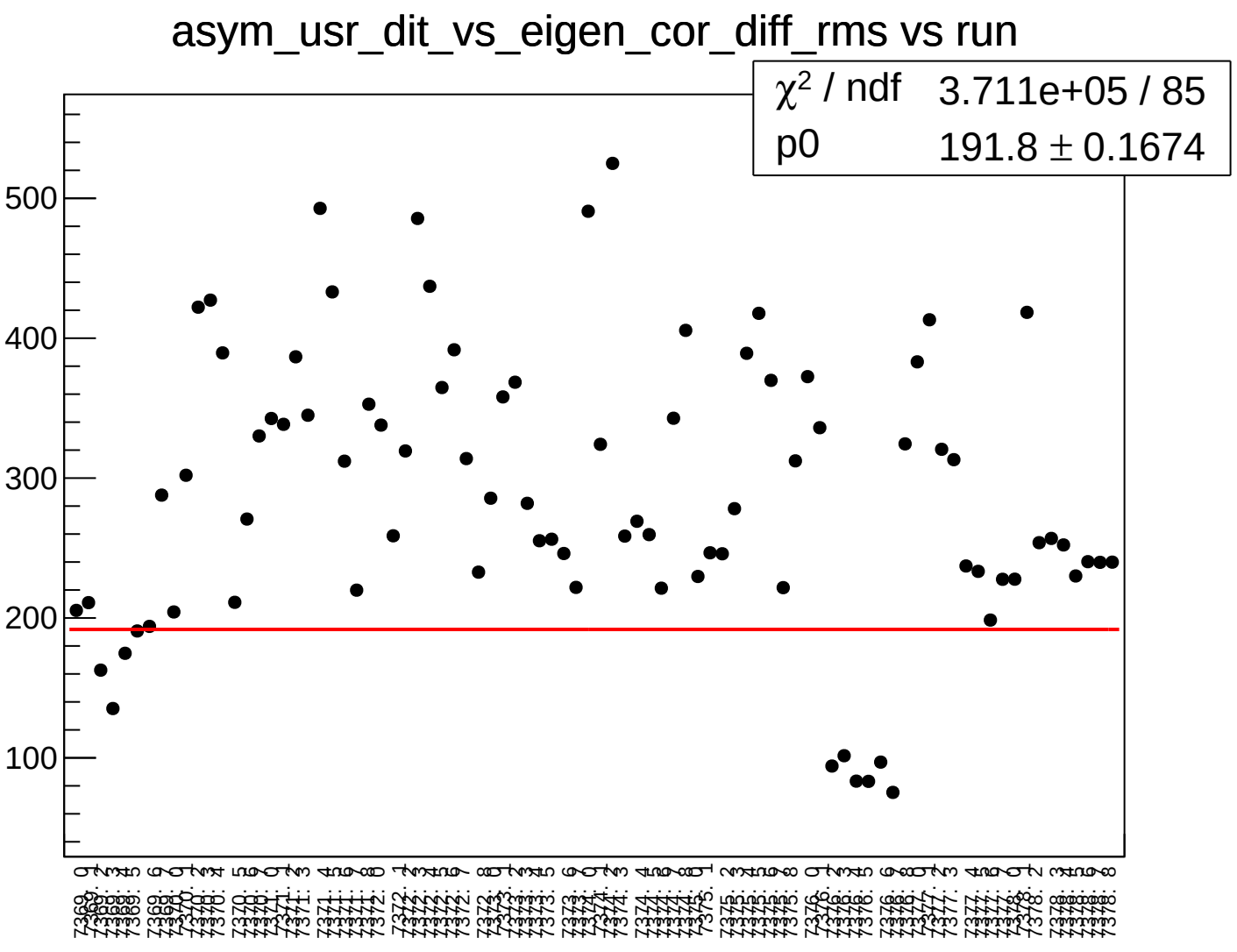

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.738e+05 / 85
p0 1.329e−11 ± 1.261e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

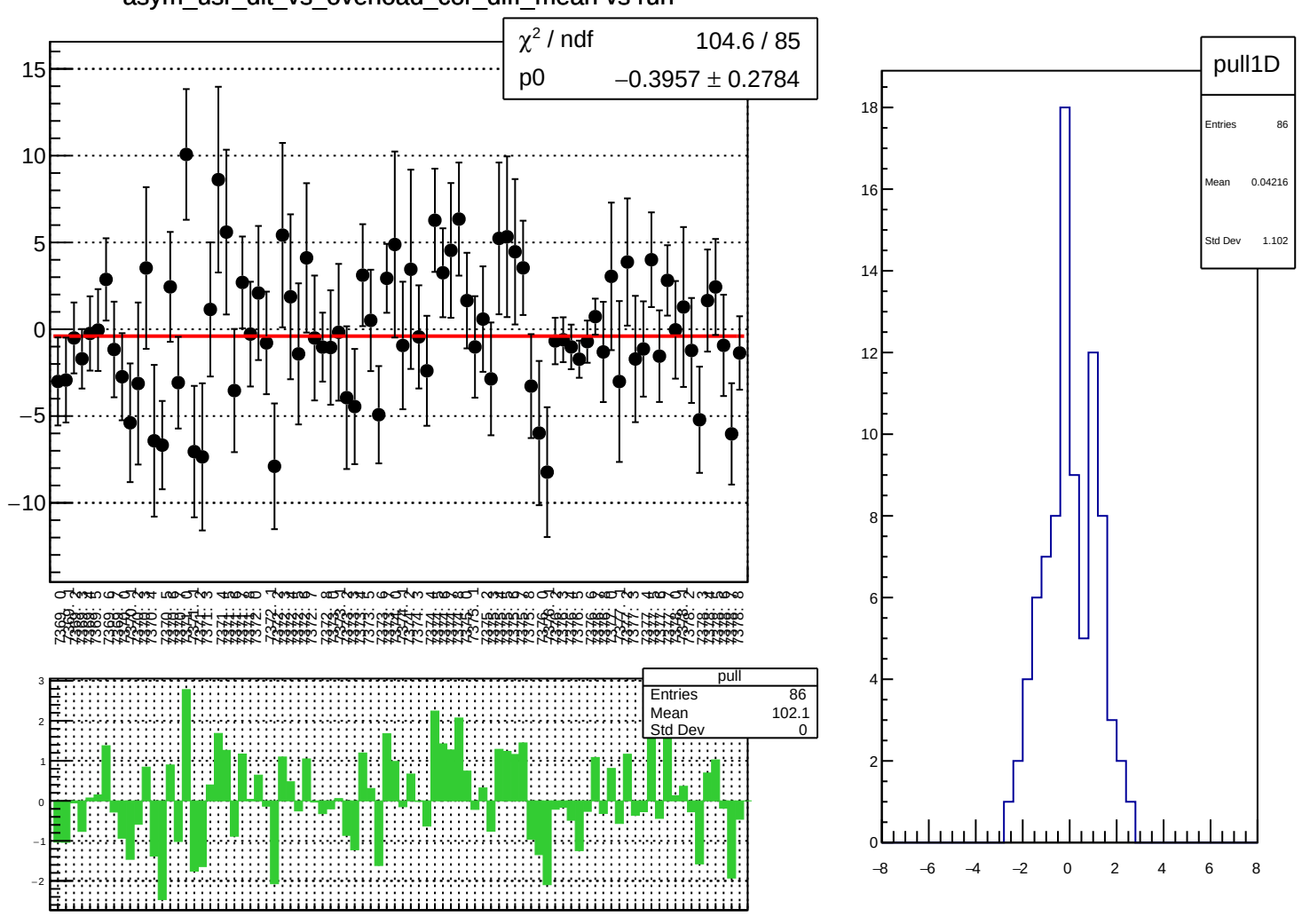

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 116.1 / 85
p0 −0.4336 ± 0.2367
pull
Entries 86
Mean 60.79
Std Dev 0

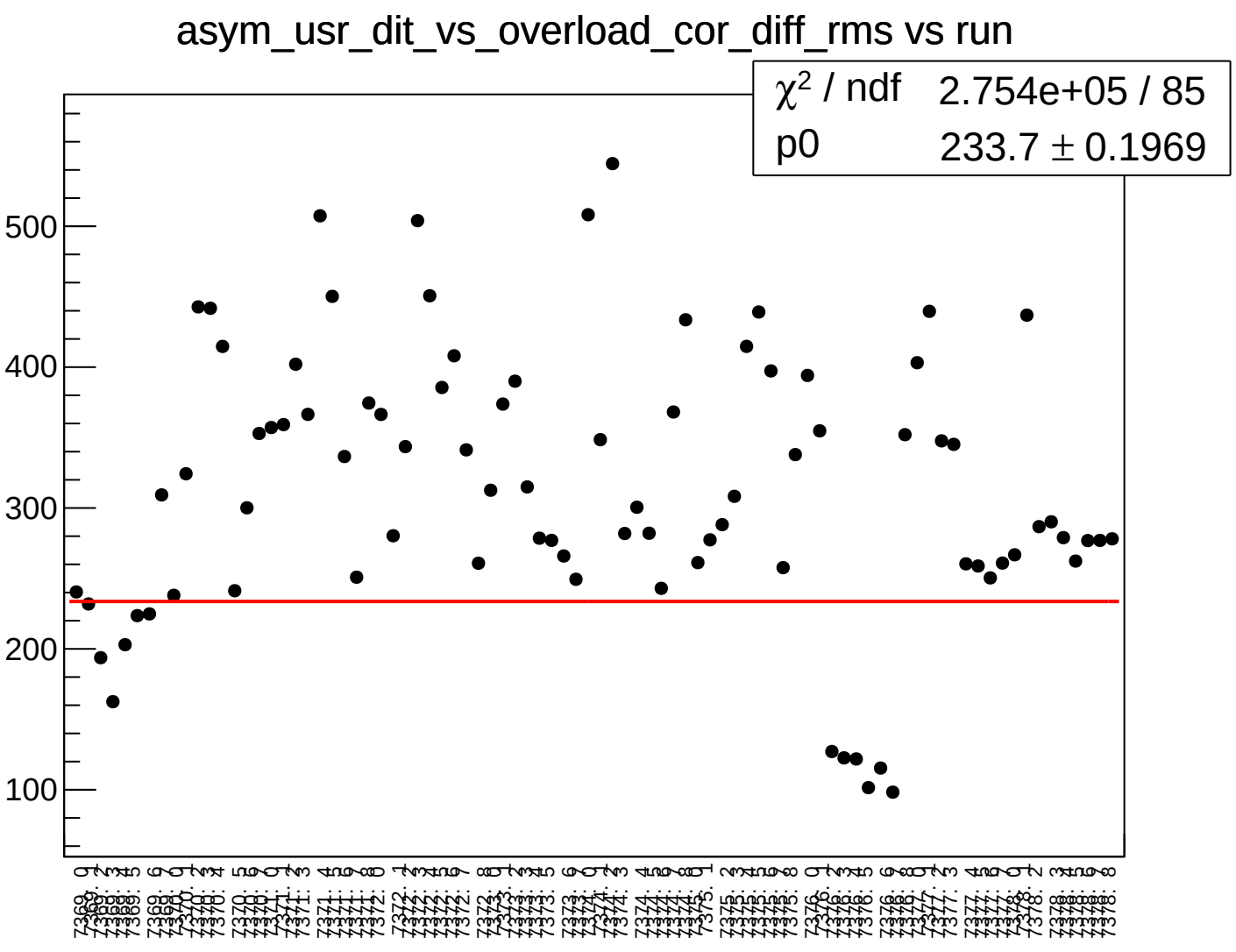

pull1D
Entries 86
Mean 0.1071
Std Dev 1.157

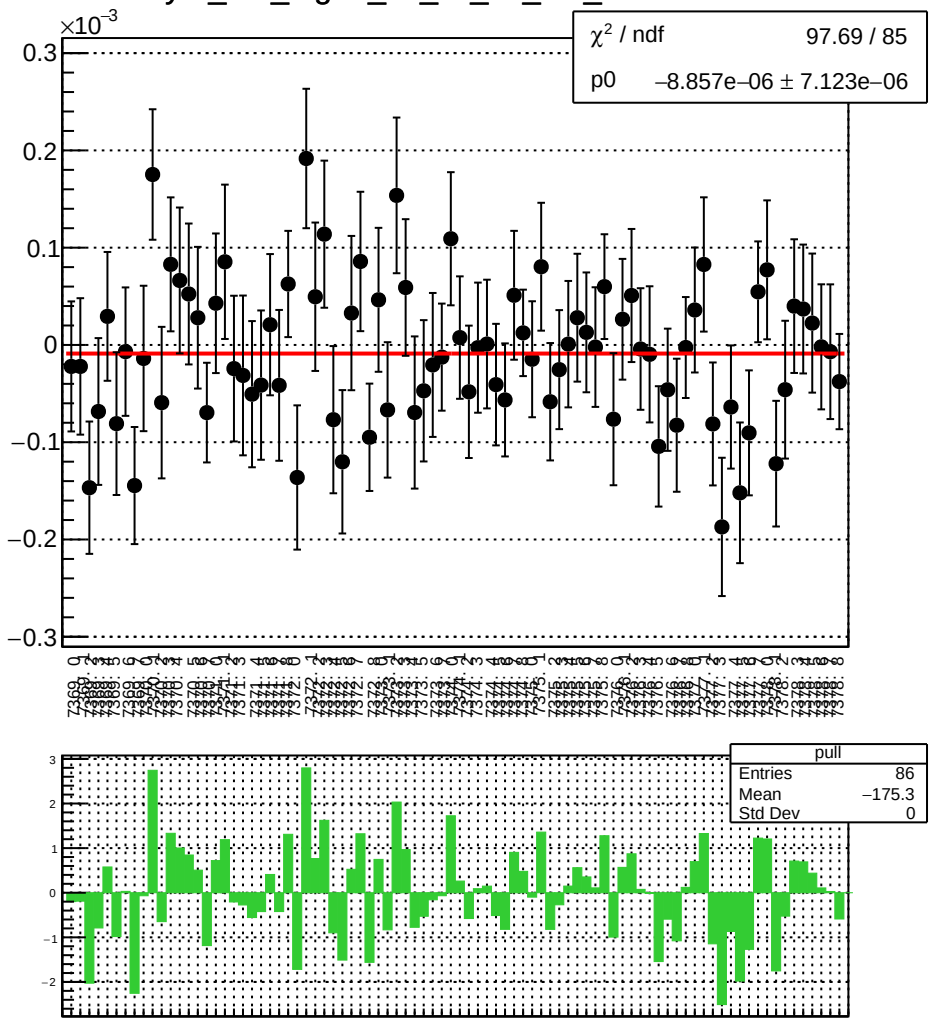

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 3.711e+05 / 85
p0 191.8 ± 0.1674
500
400
300
200
100

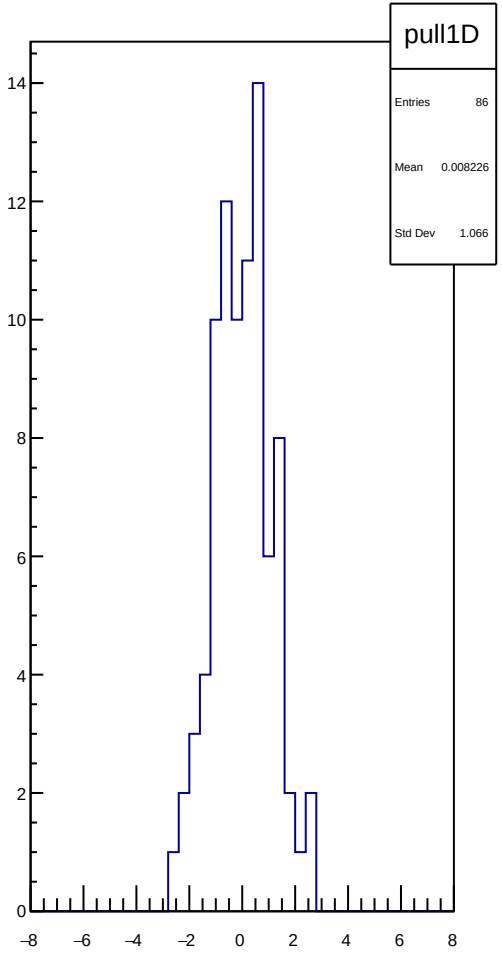

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.1 / 85
p0 −0.4336 ± 0.2367
pull
Entries 86
Mean 60.79
Std Dev 0
pull1D
Entries 86
Mean 0.1071
Std Dev 1.157

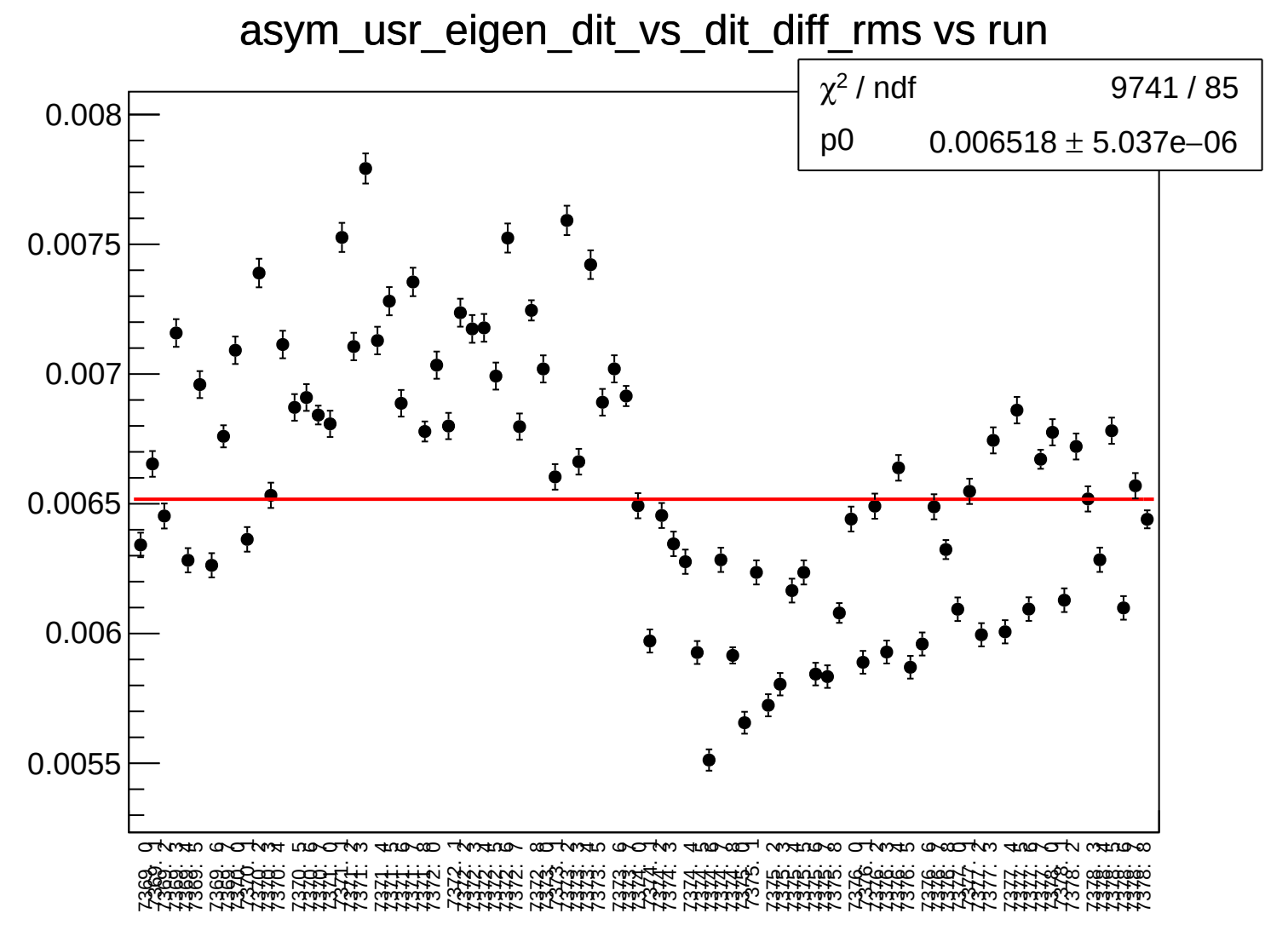

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.711e+05 / 85
p0 191.8 ± 0.1674
500
400
300
200
100

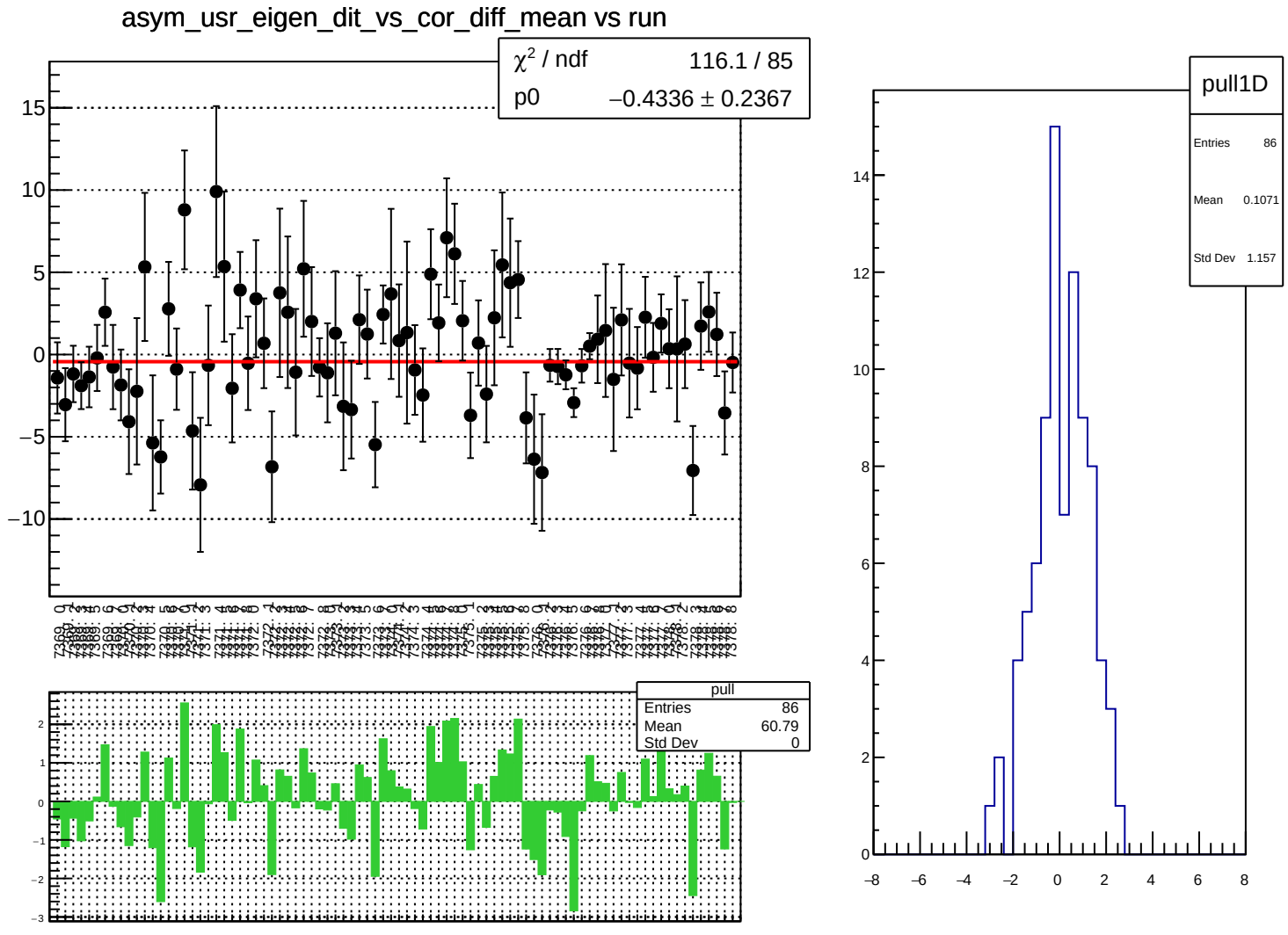

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 104.6 / 85
p0 −0.3957 ± 0.2784
pull
Entries 86
Mean 102.1
Std Dev 0
pull1D
Entries 86
Mean 0.04216
Std Dev 1.102

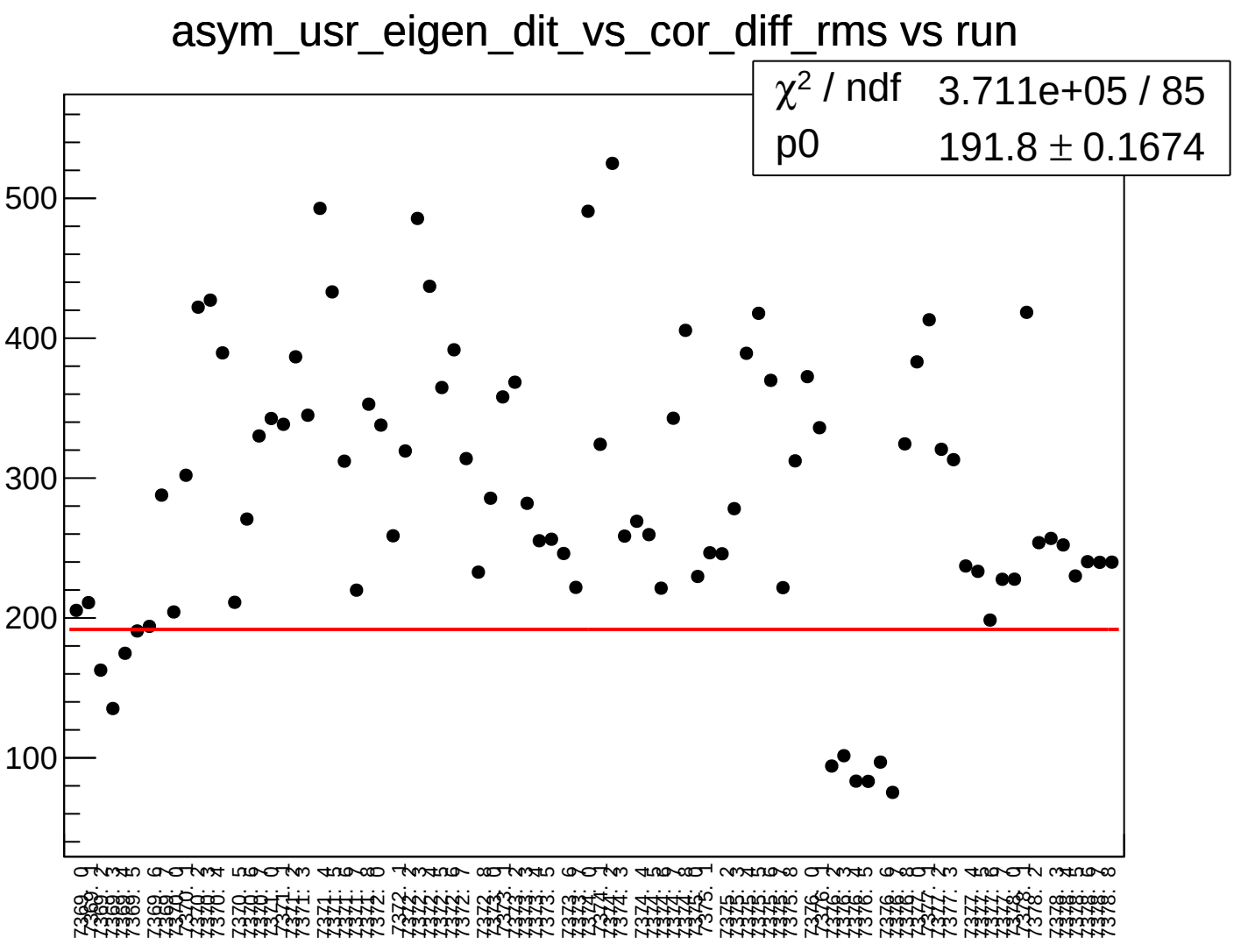

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.754e+05 / 85
p0 233.7 ± 0.1969
500
400
300
200
100

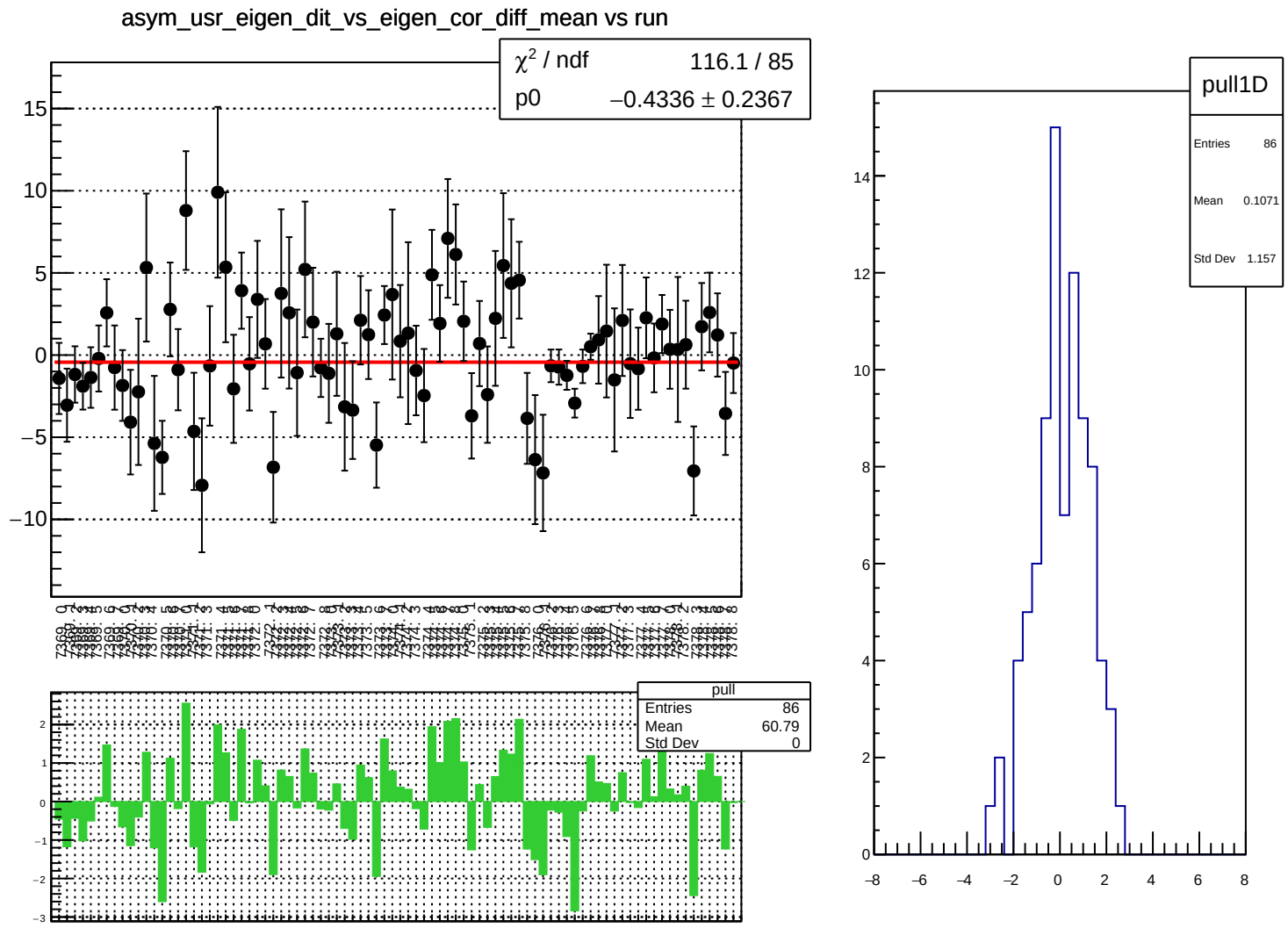

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.69 / 85
p0 −8.857e−06 ± 7.123e−06
pull
Entries 86
Mean −175.3
Std Dev 0

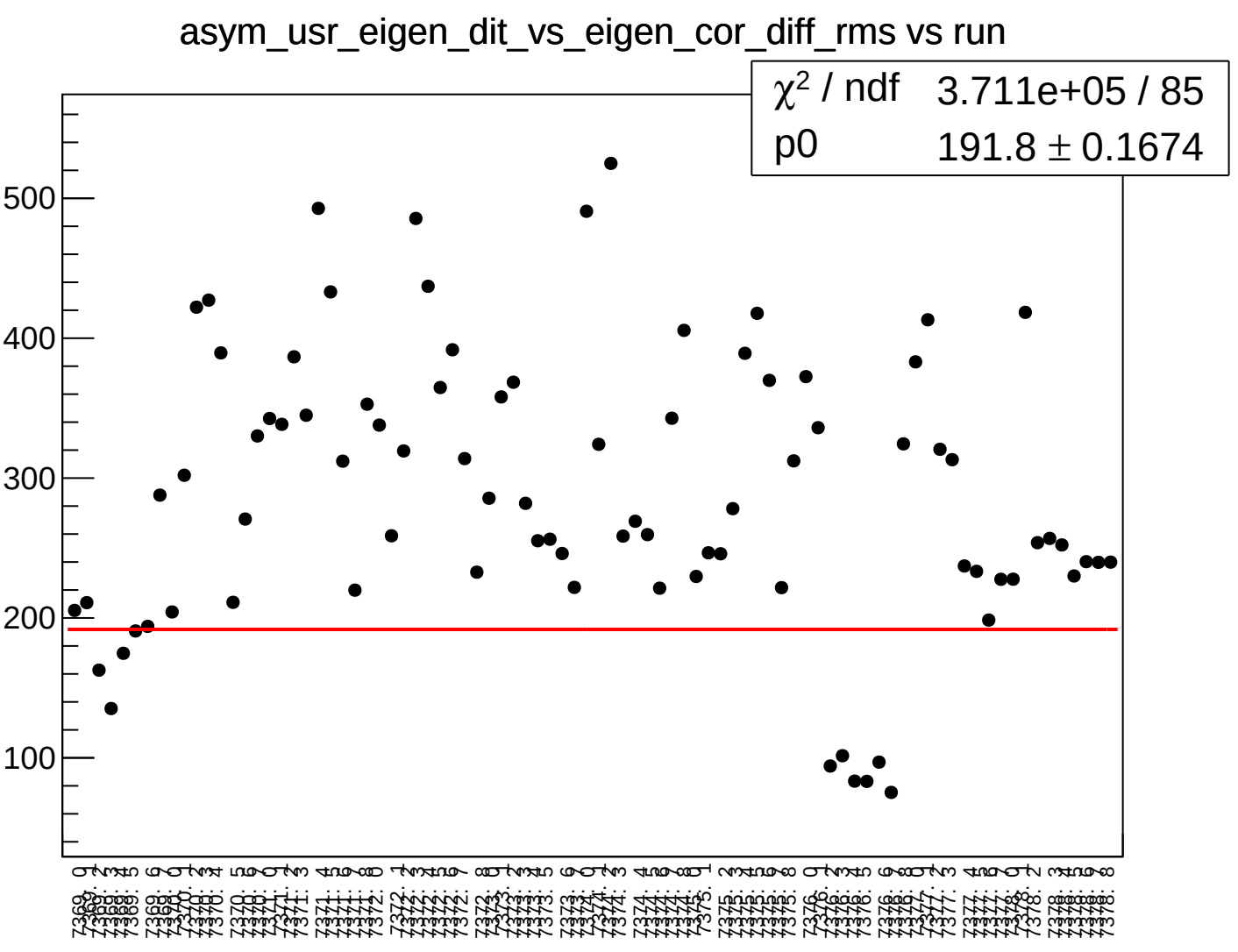

pull1D
Entries 86
Mean 0.008226
Std Dev 1.066

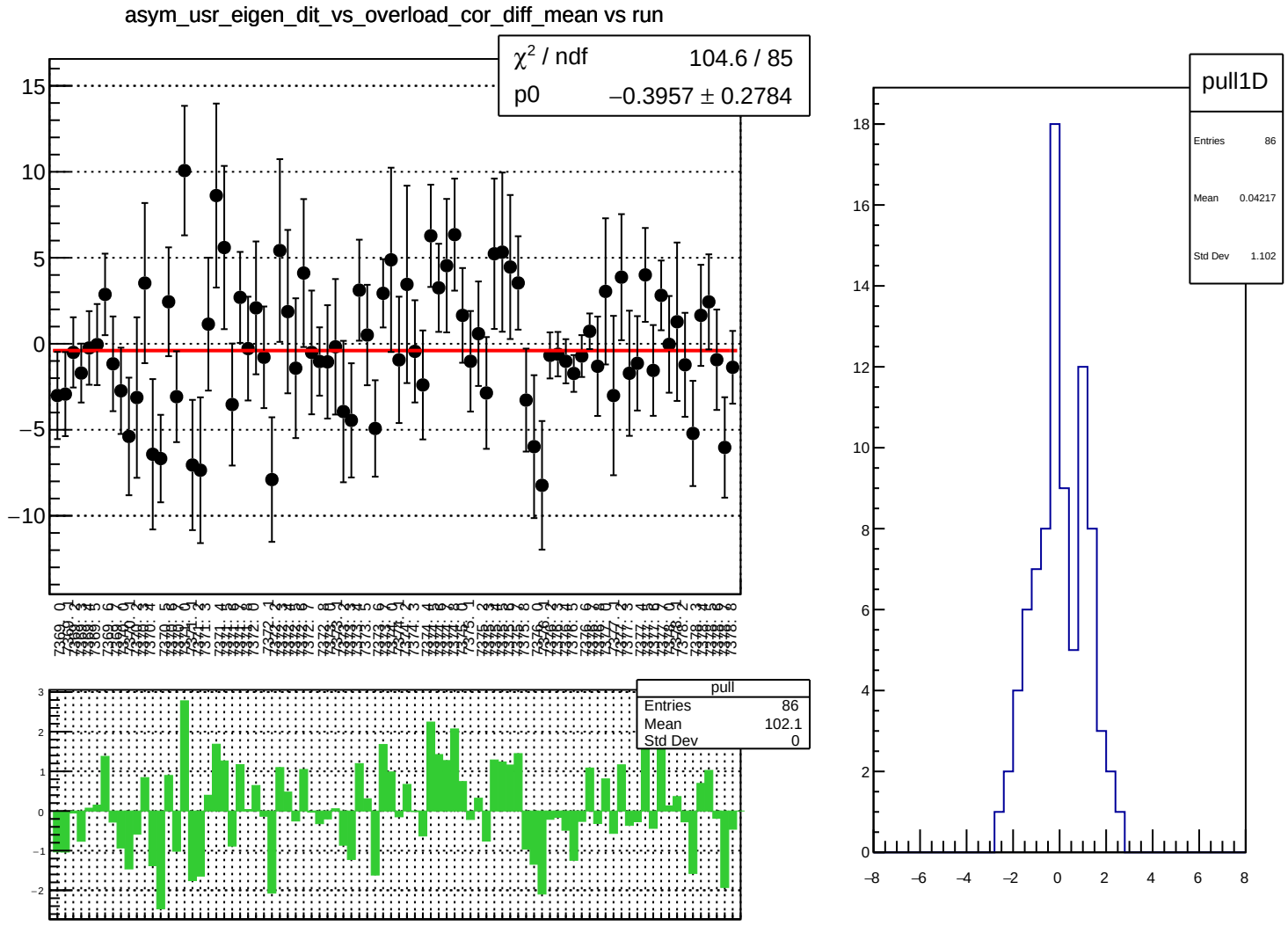

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9741 / 85
p0 0.006518 ± 5.037e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

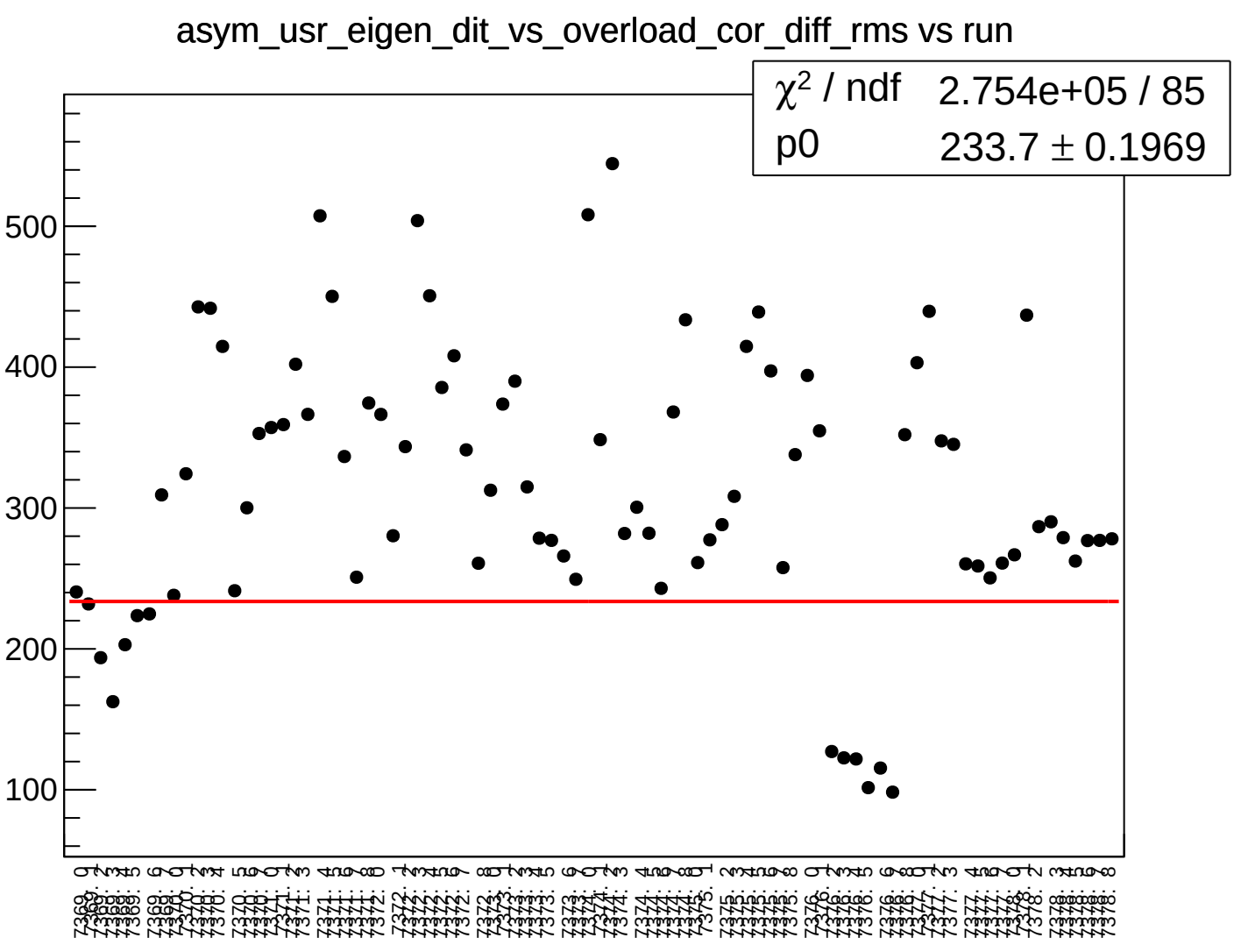

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116.1 / 85
p0 −0.4336 ± 0.2367
pull
Entries 86
Mean 60.79
Std Dev 0
pull1D
Entries 86
Mean 0.1071
Std Dev 1.157

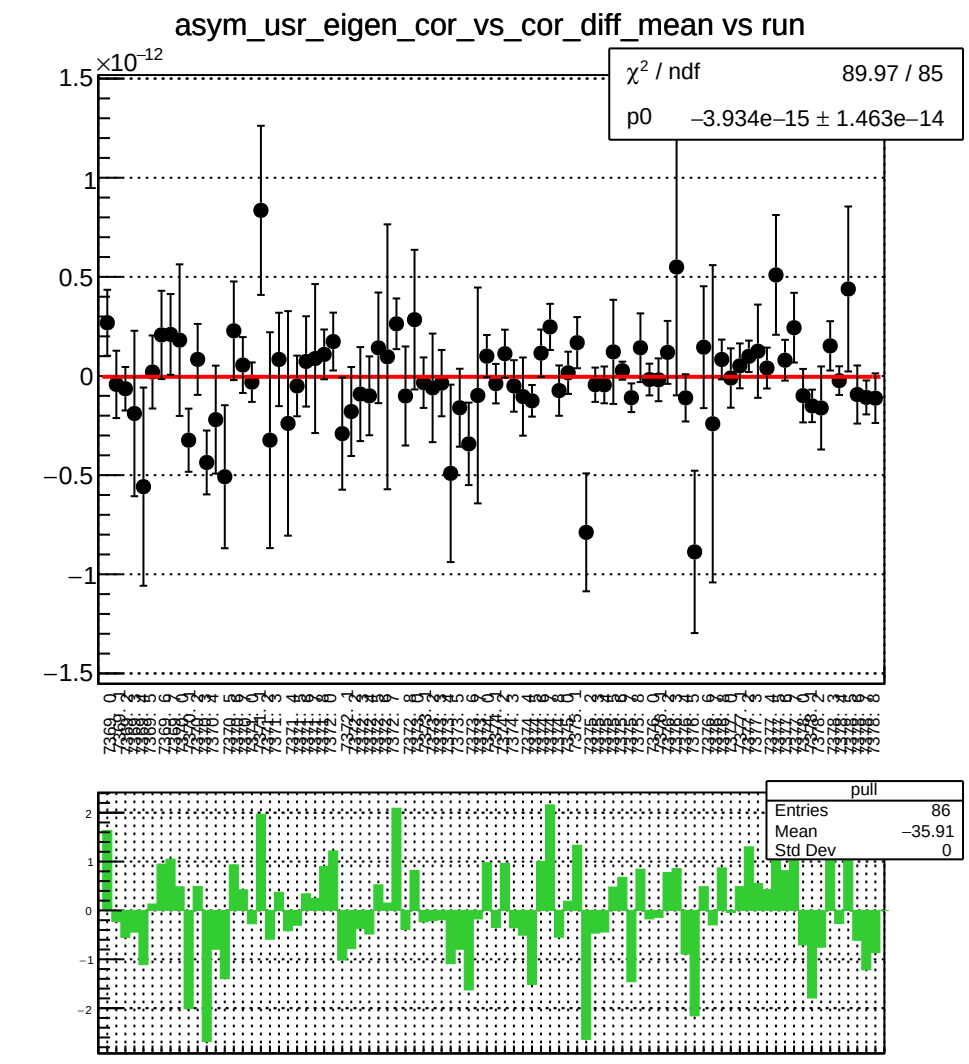

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.711e+05 / 85
p0 191.8 ± 0.1674
500
400
300
200
100

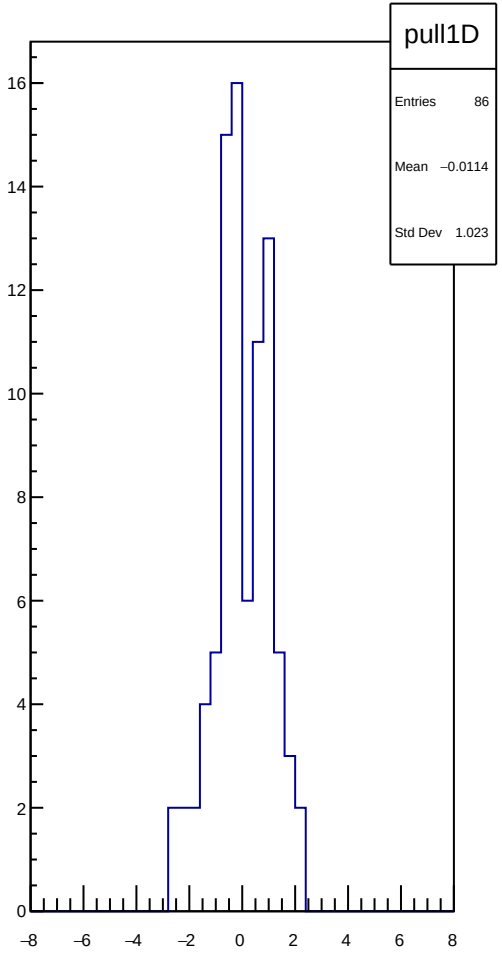

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.1 / 85
p0 −0.4336 ± 0.2367
pull
Entries 86
Mean 60.79
Std Dev 0
pull1D
Entries 86
Mean 0.1071
Std Dev 1.157

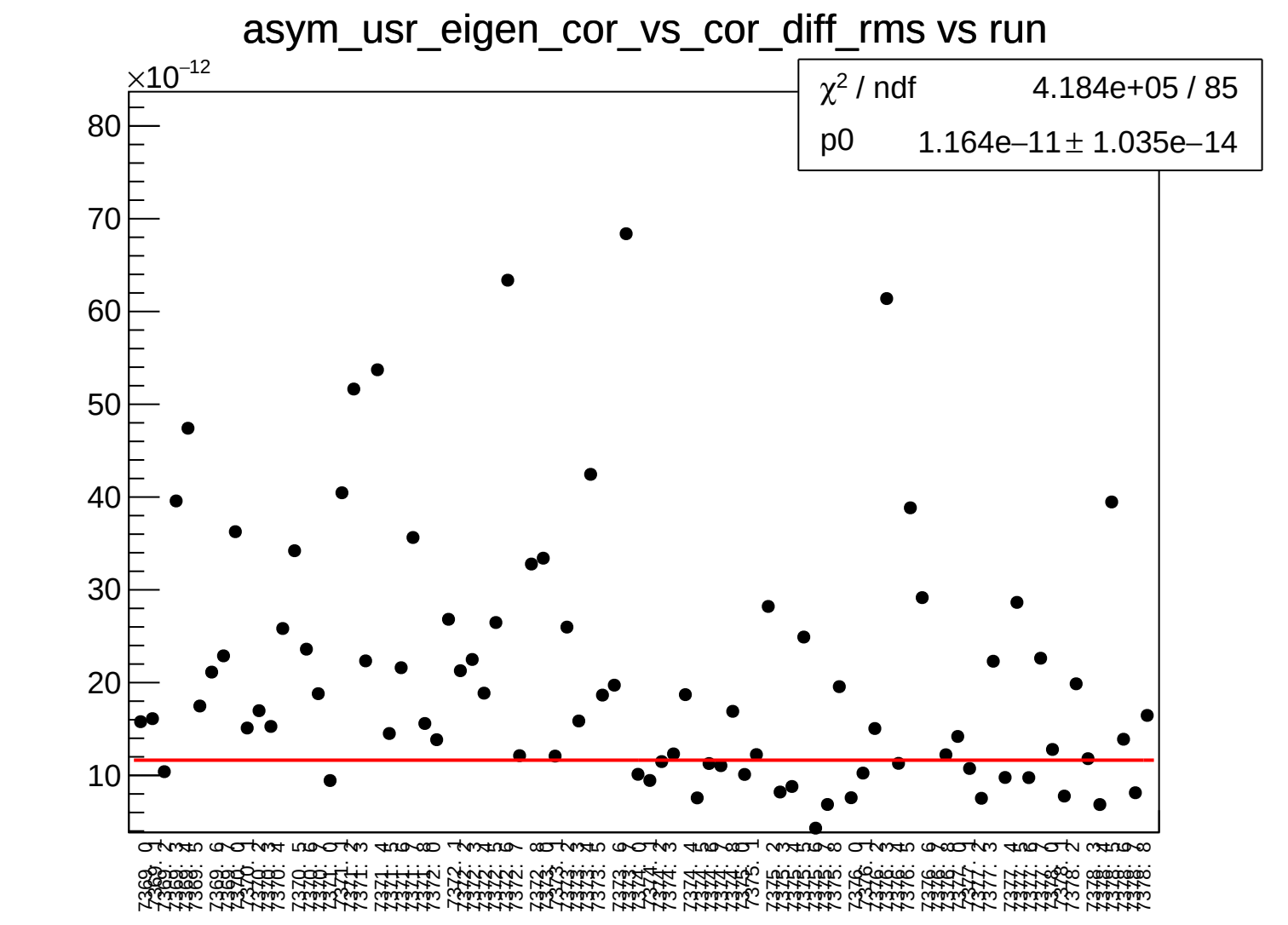

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.711e+05 / 85
p0 191.8 ± 0.1674
500
400
300
200
100

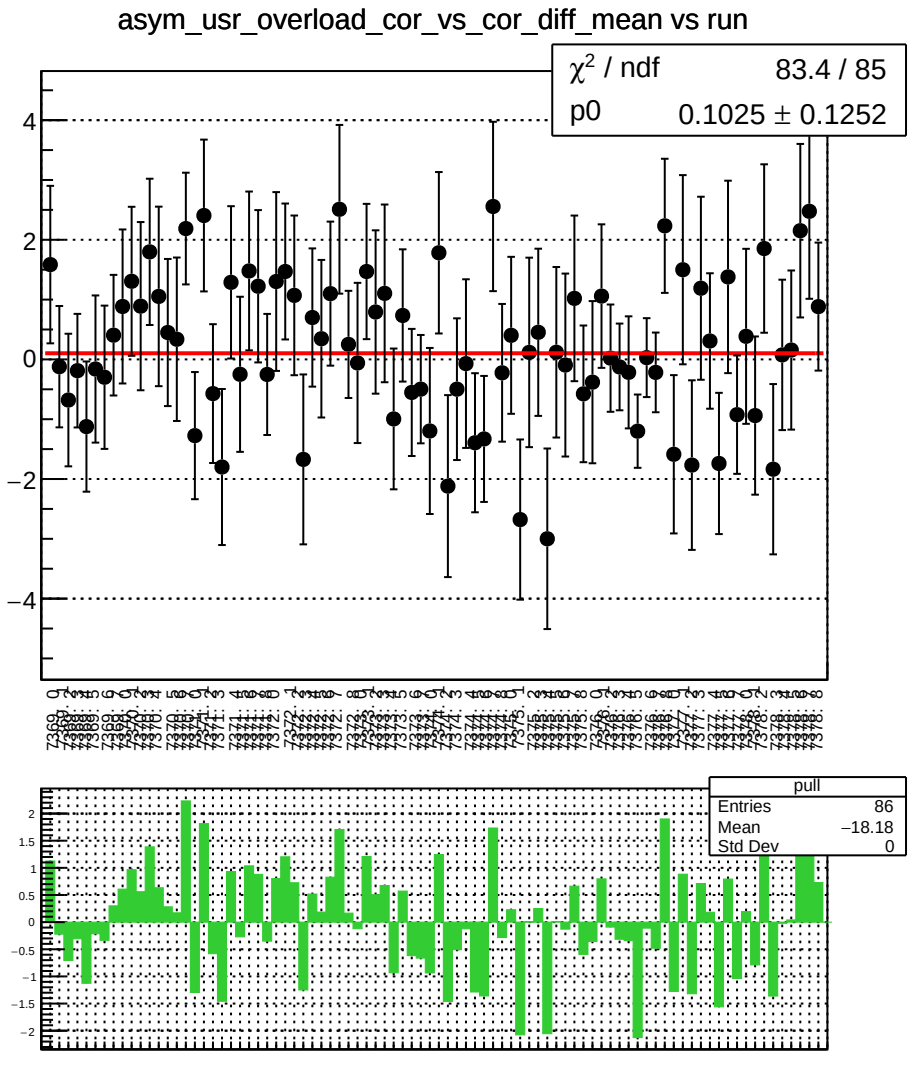

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 104.6 / 85
p0 −0.3957 ± 0.2784
pull
Entries 86
Mean 102.1
Std Dev 0
pull1D
Entries 86
Mean 0.04217
Std Dev 1.102

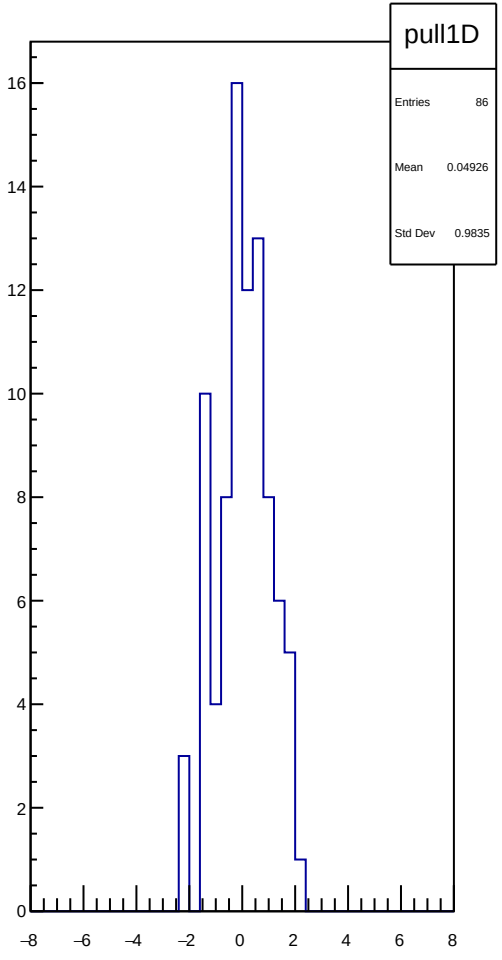

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.754e+05 / 85
p0 233.7 ± 0.1969
500
400
300
200
100

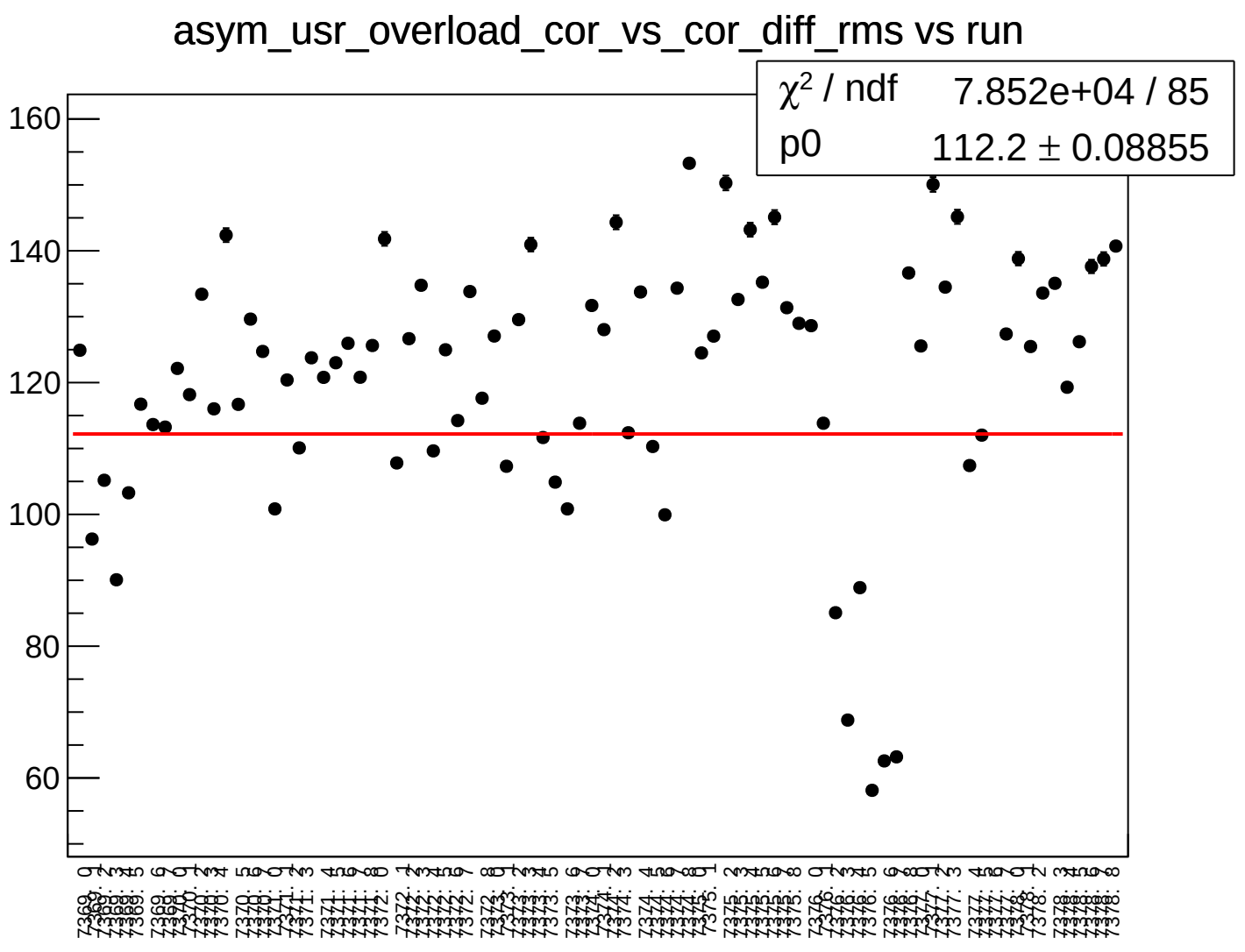

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.97 / 85
p0 −3.934e−15 ± 1.463e−14
pull
Entries 86
Mean −35.91
Std Dev 0

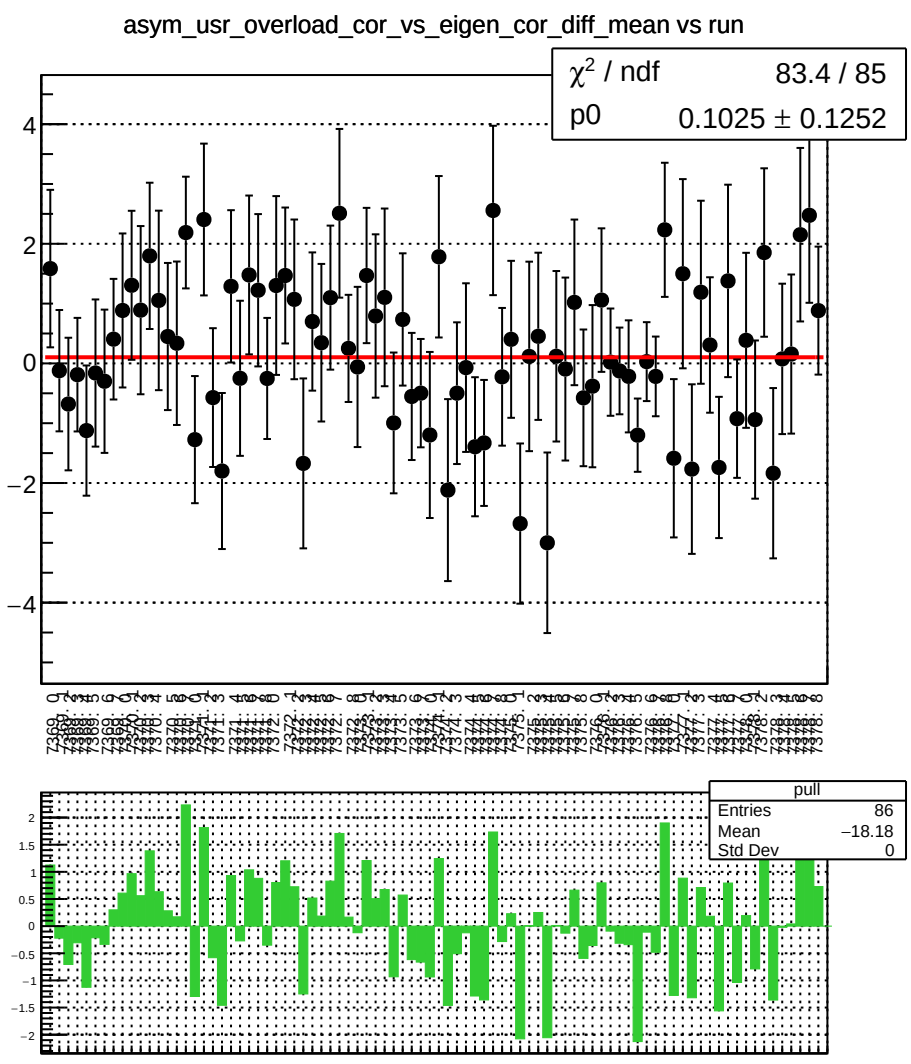

pull1D
Entries 86
Mean −0.0114
Std Dev 1.023

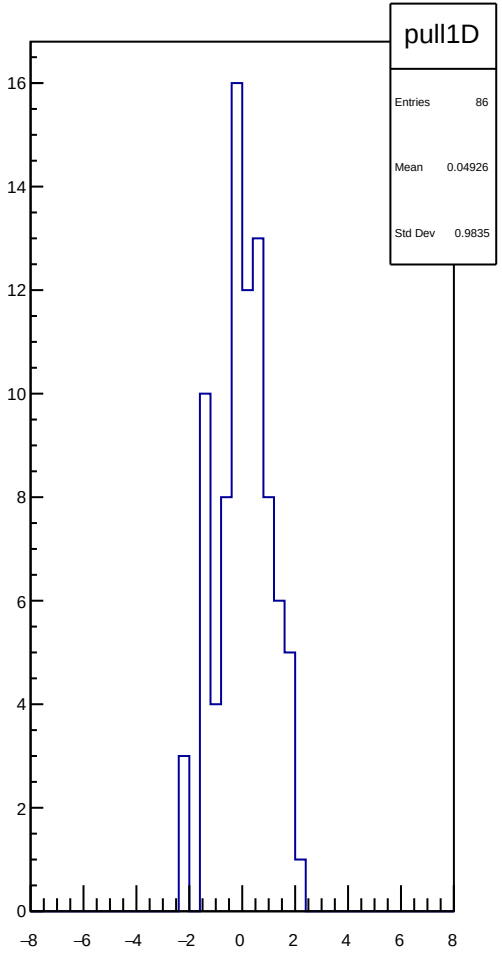

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.184e+05 / 85
p0 1.164e−11 ± 1.035e−14
80
70
60
50
40
30
20
10

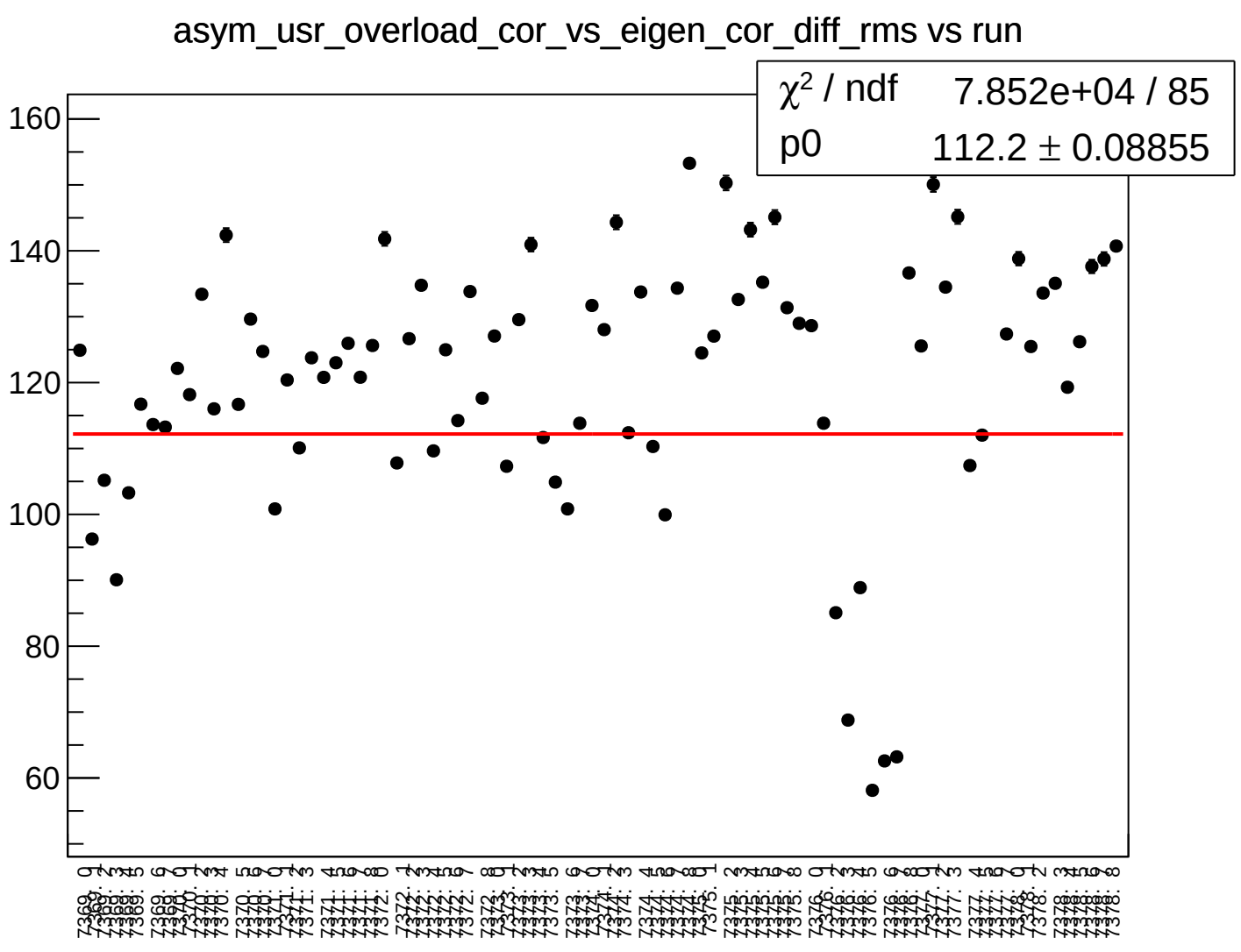

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 83.4 / 85
p0 0.1025 ± 0.1252
pull
Entries 86
Mean −18.18
Std Dev 0

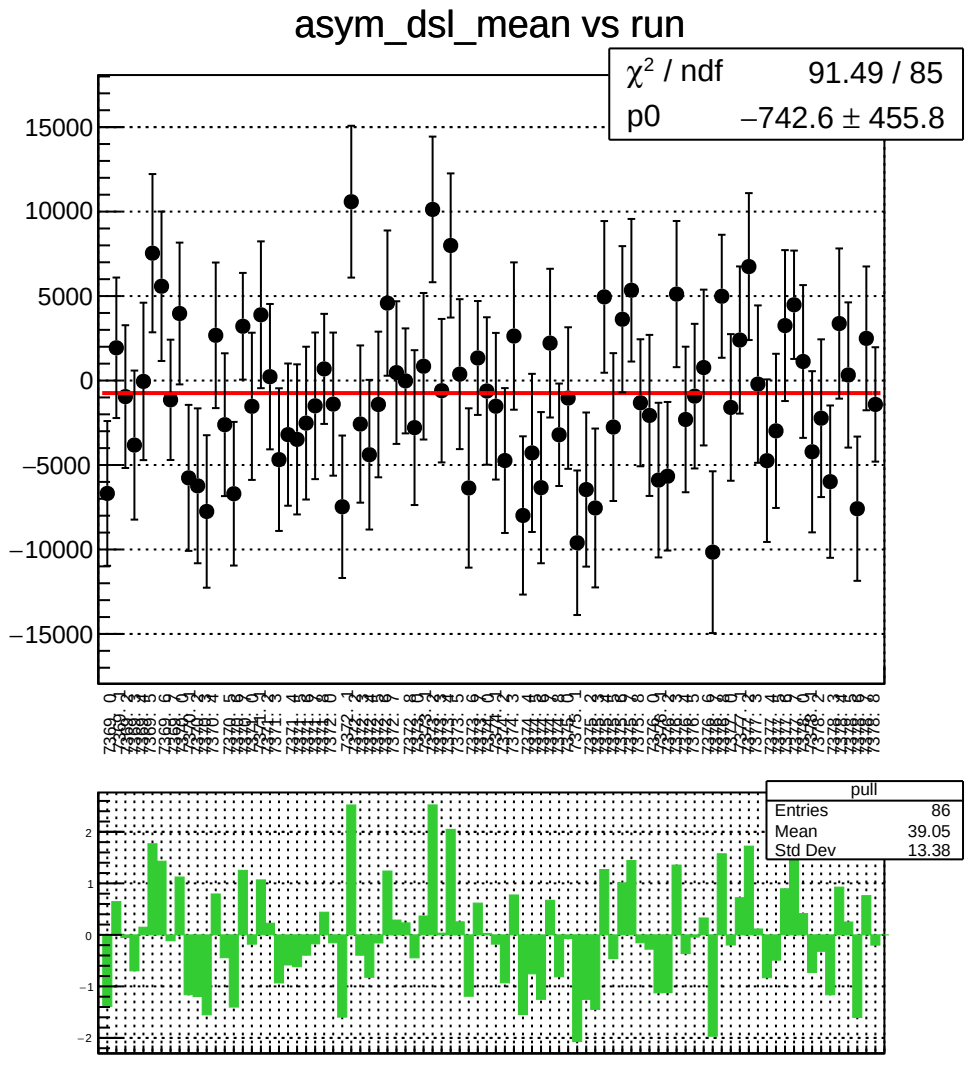

pull1D
Entries 86
Mean 0.04926
Std Dev 0.9835

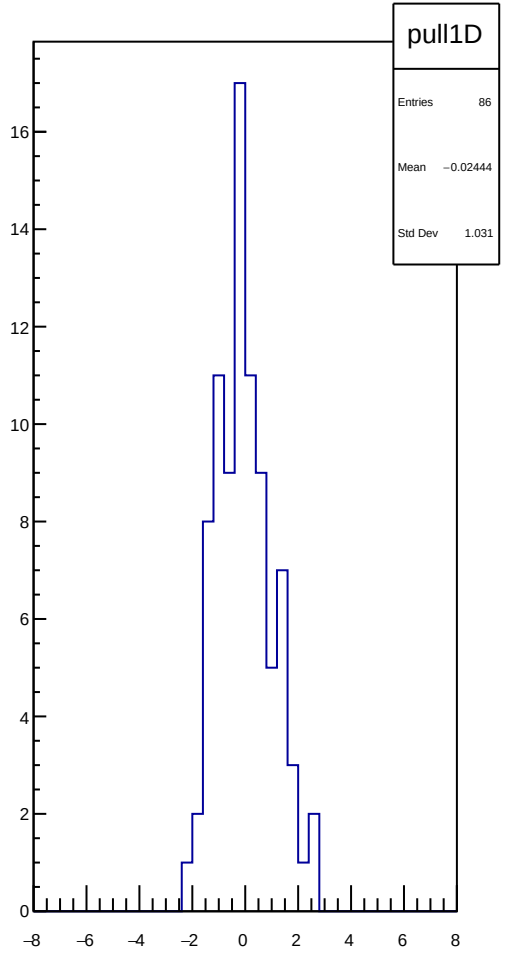

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 7.852e+04 / 85
p0 112.2 ± 0.08855
160
140
120
100
80
60

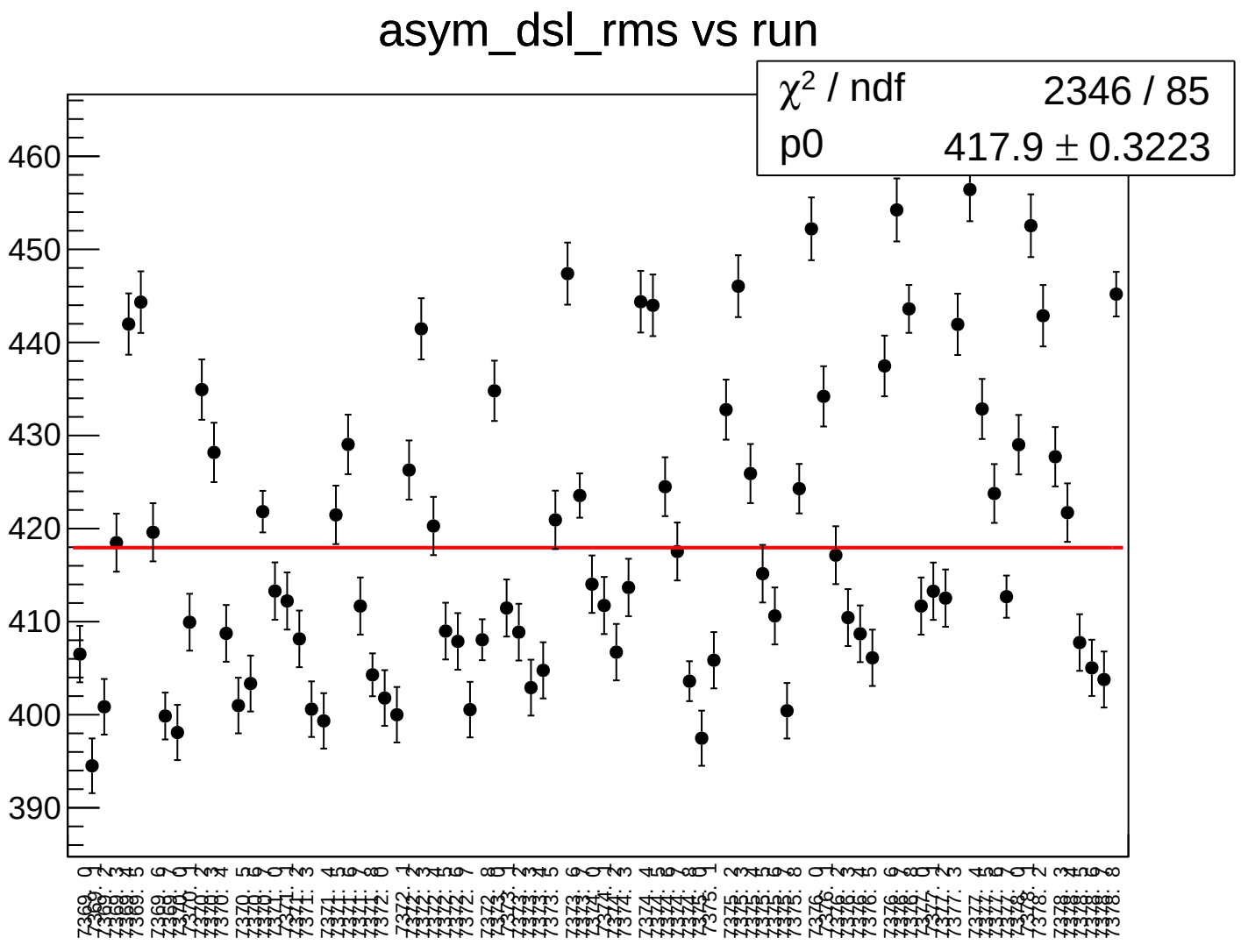

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.4 / 85
p0 0.1025 ± 0.1252
pull
Entries 86
Mean −18.18
Std Dev 0

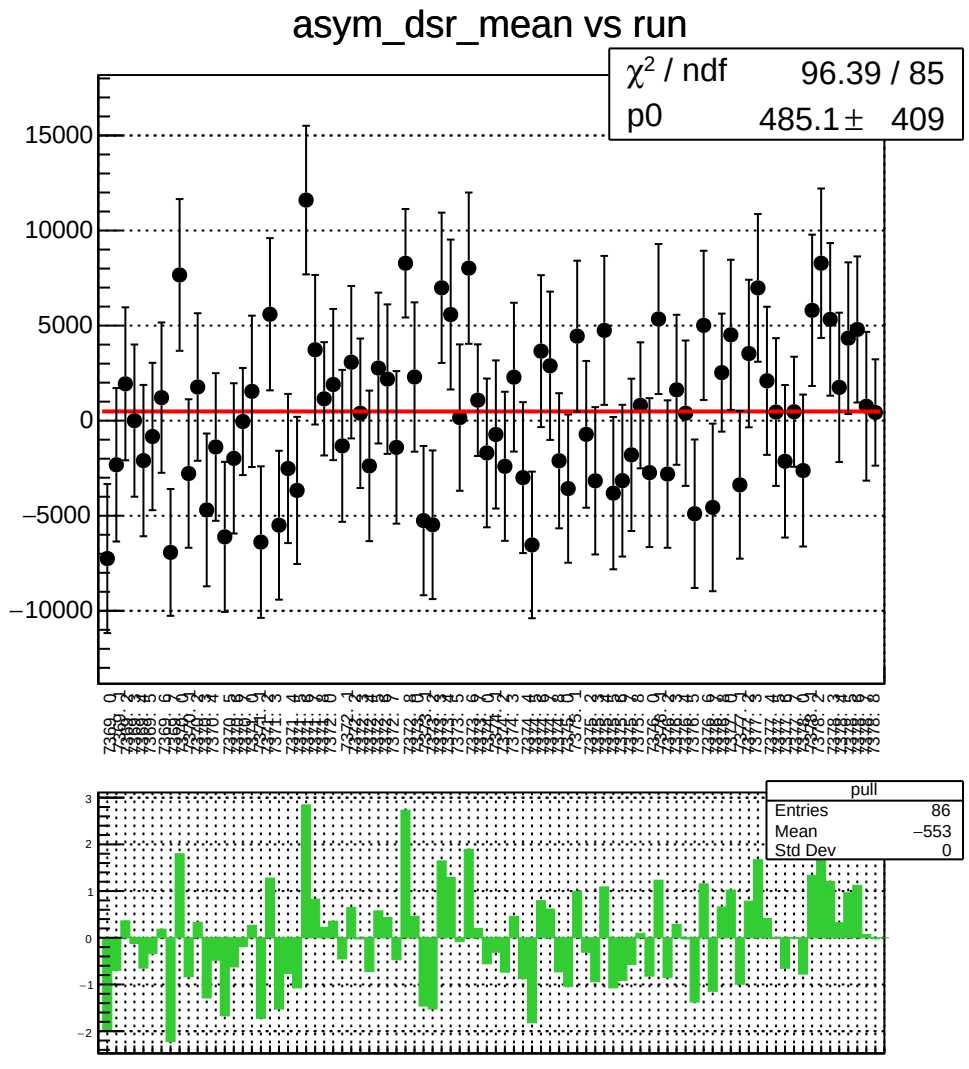

pull1D
Entries 86
Mean 0.04926
Std Dev 0.9835

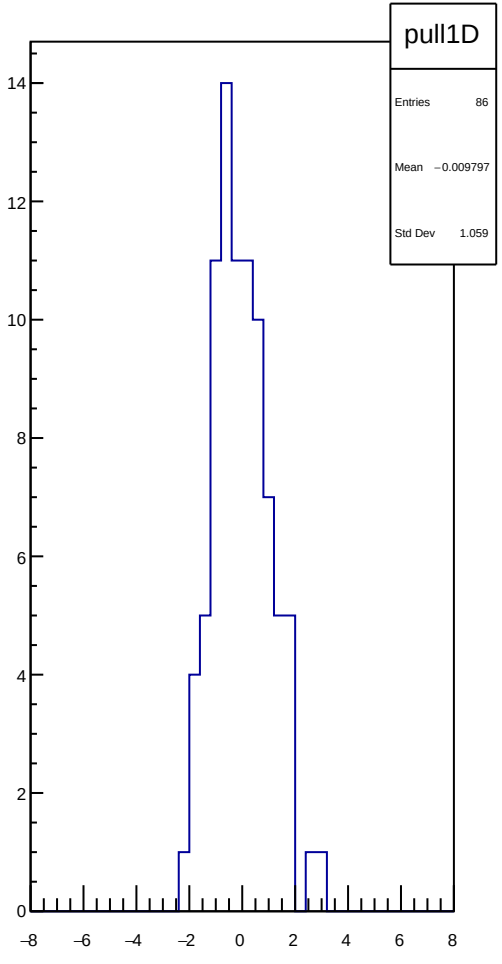

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.852e+04 / 85
p0 112.2 ± 0.08855
160
140
120
100
80
60

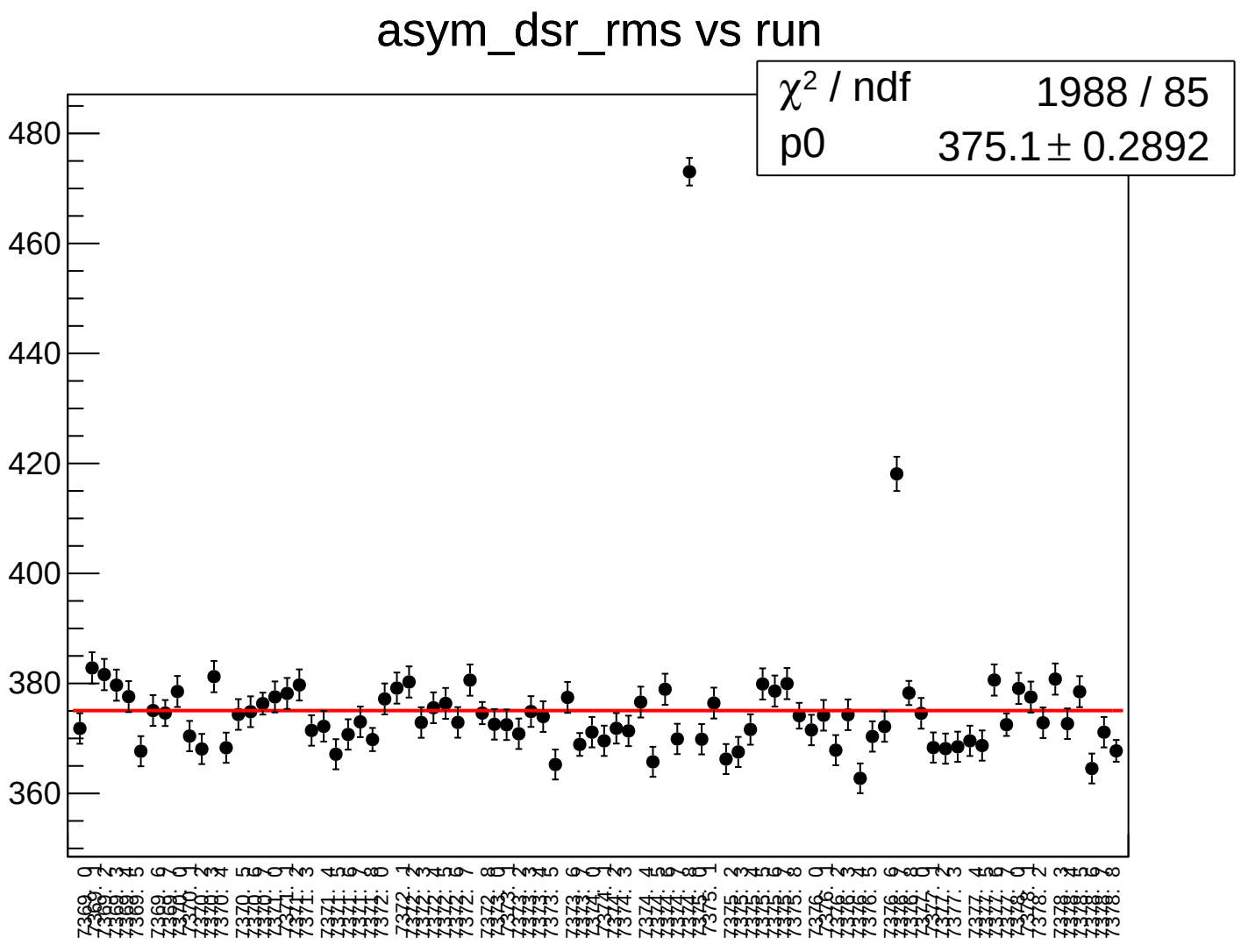

asym_dsl_mean vs run
χ² / ndf 91.49 / 85
p0 −742.6 ± 455.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 39.05
Std Dev 13.38
2
1
0
−1
−2

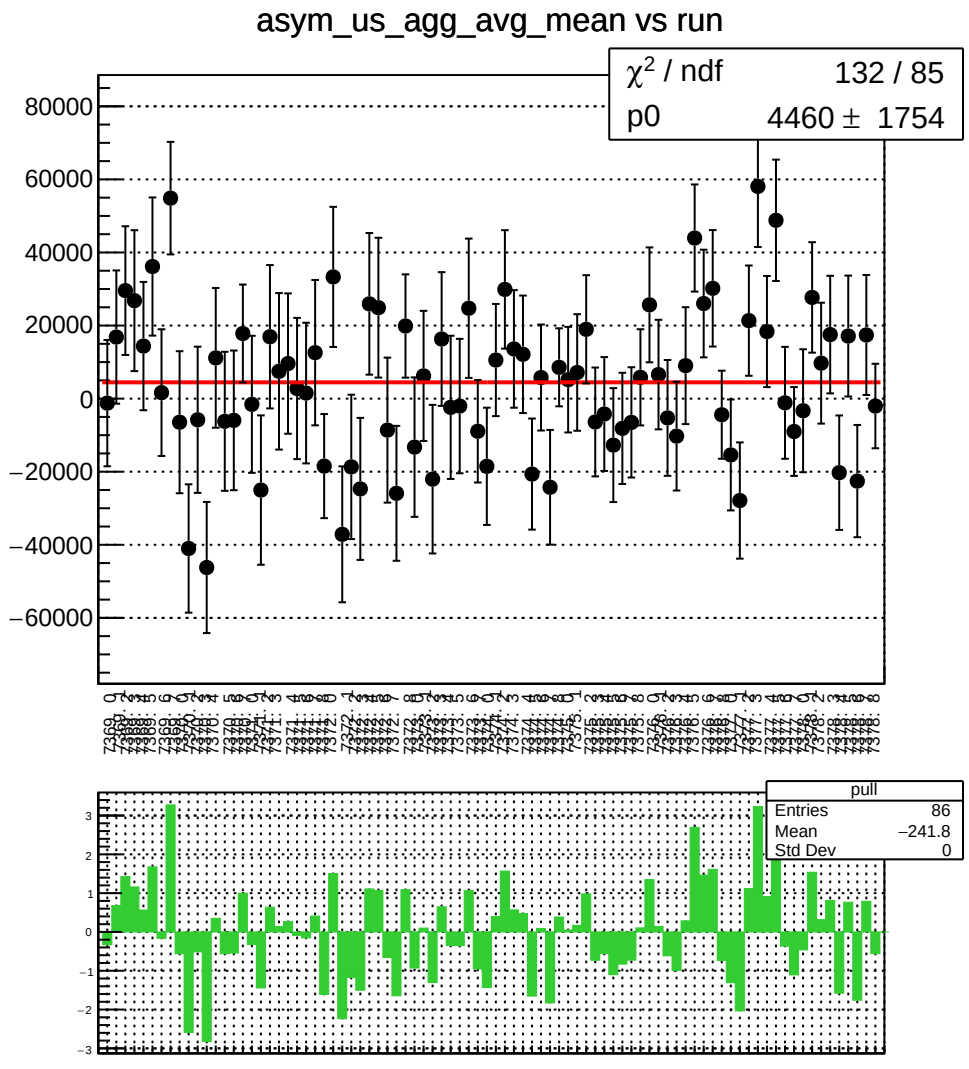

pull1D
Entries 86
Mean −0.02444
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

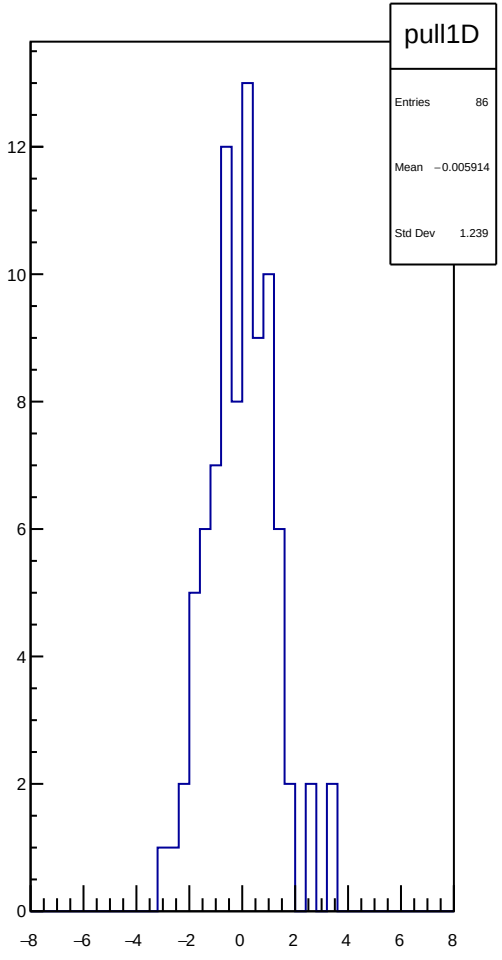

asym_dsl_rms vs run
χ^2 / ndf 2346 / 85
p0 417.9 ± 0.3223
460
450
440
430
420
410
400
390

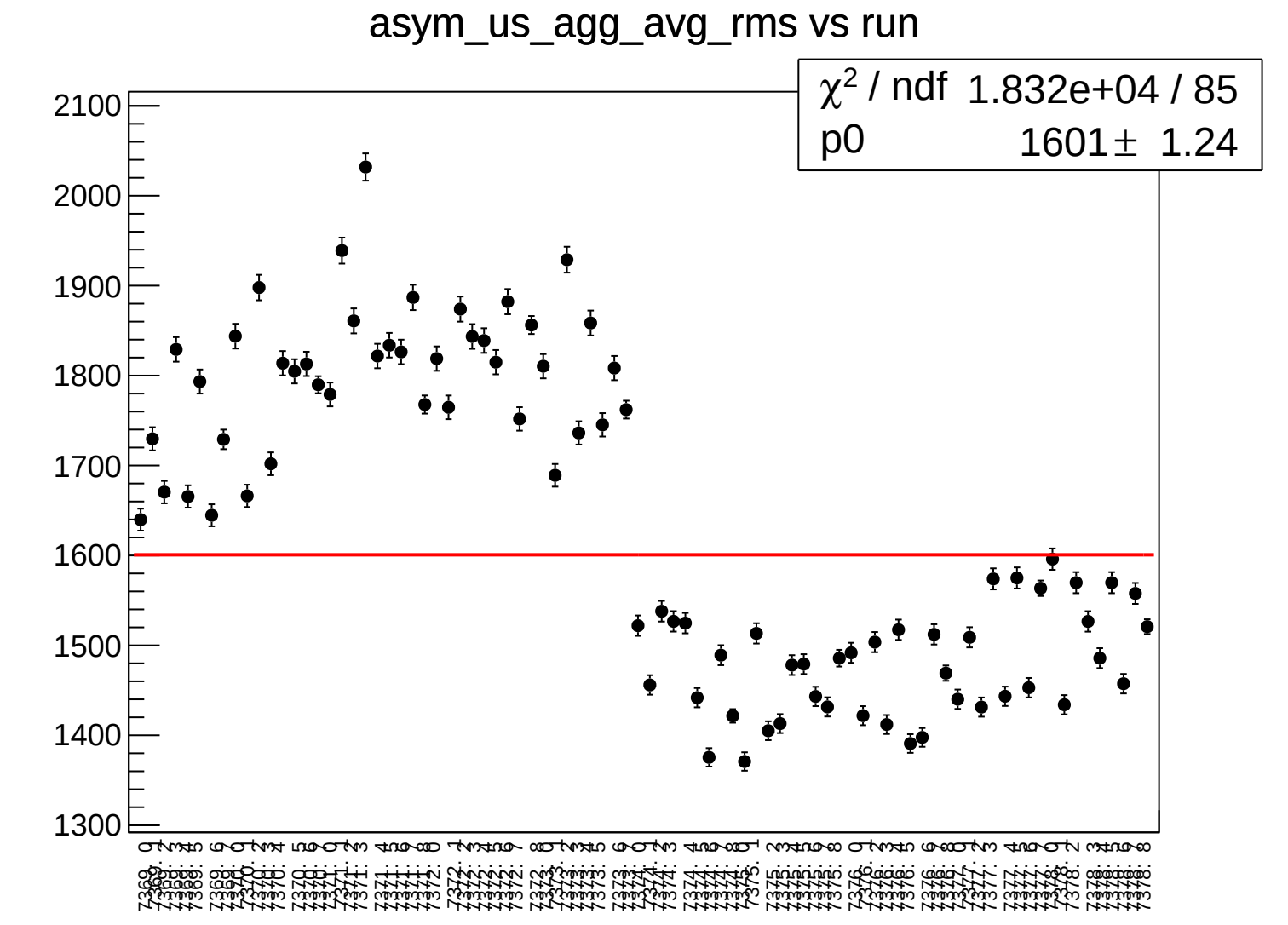

asym_dsr_mean vs run
χ² / ndf 96.39 / 85
p0 485.1 ± 409
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −553
Std Dev 0
3
2
1
0
−1
−2

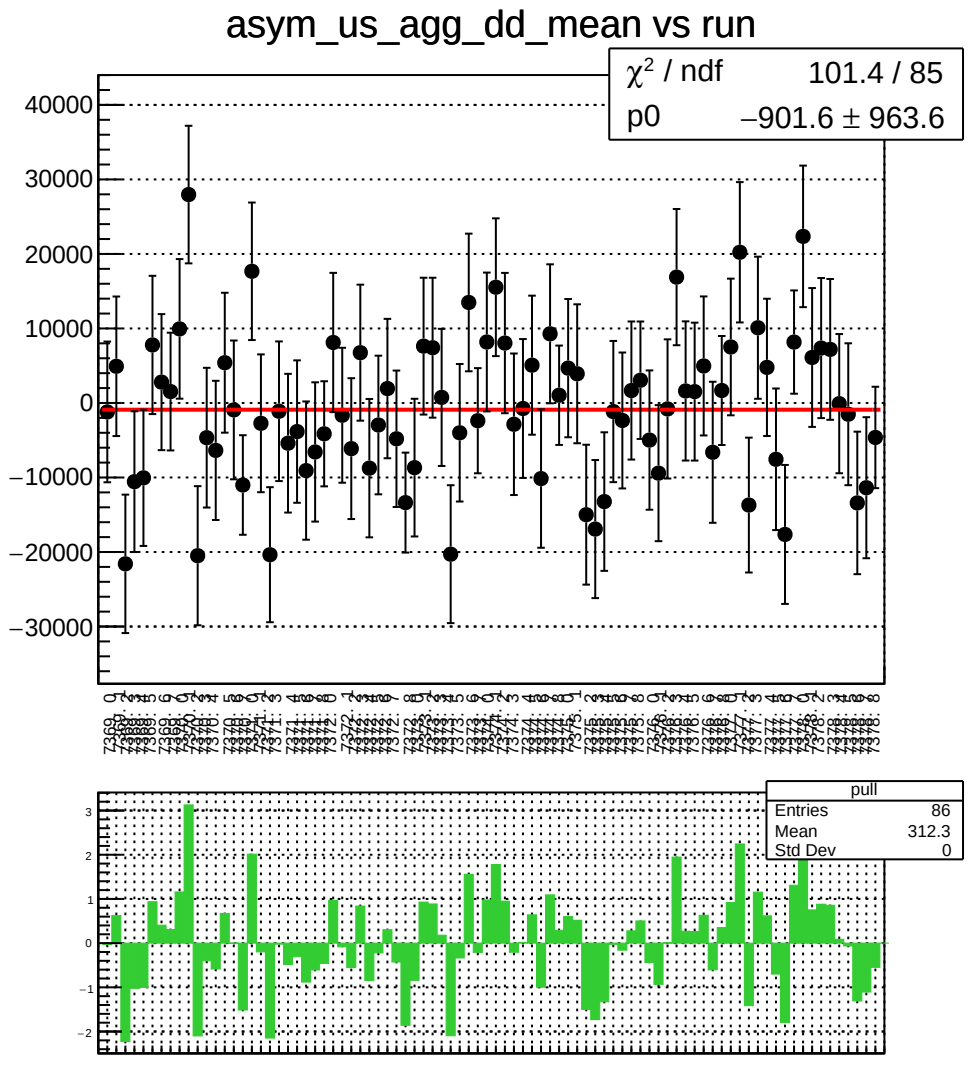

pull1D
Entries 86
Mean −0.009797
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

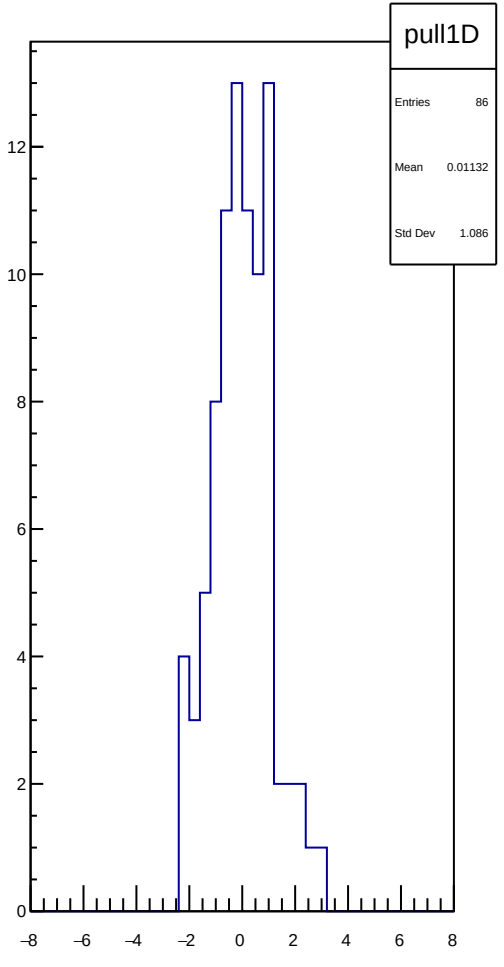

asym_dsr_rms vs run
χ² / ndf 1988 / 85
p0 375.1 ± 0.2892
480
460
440
420
400
380
360

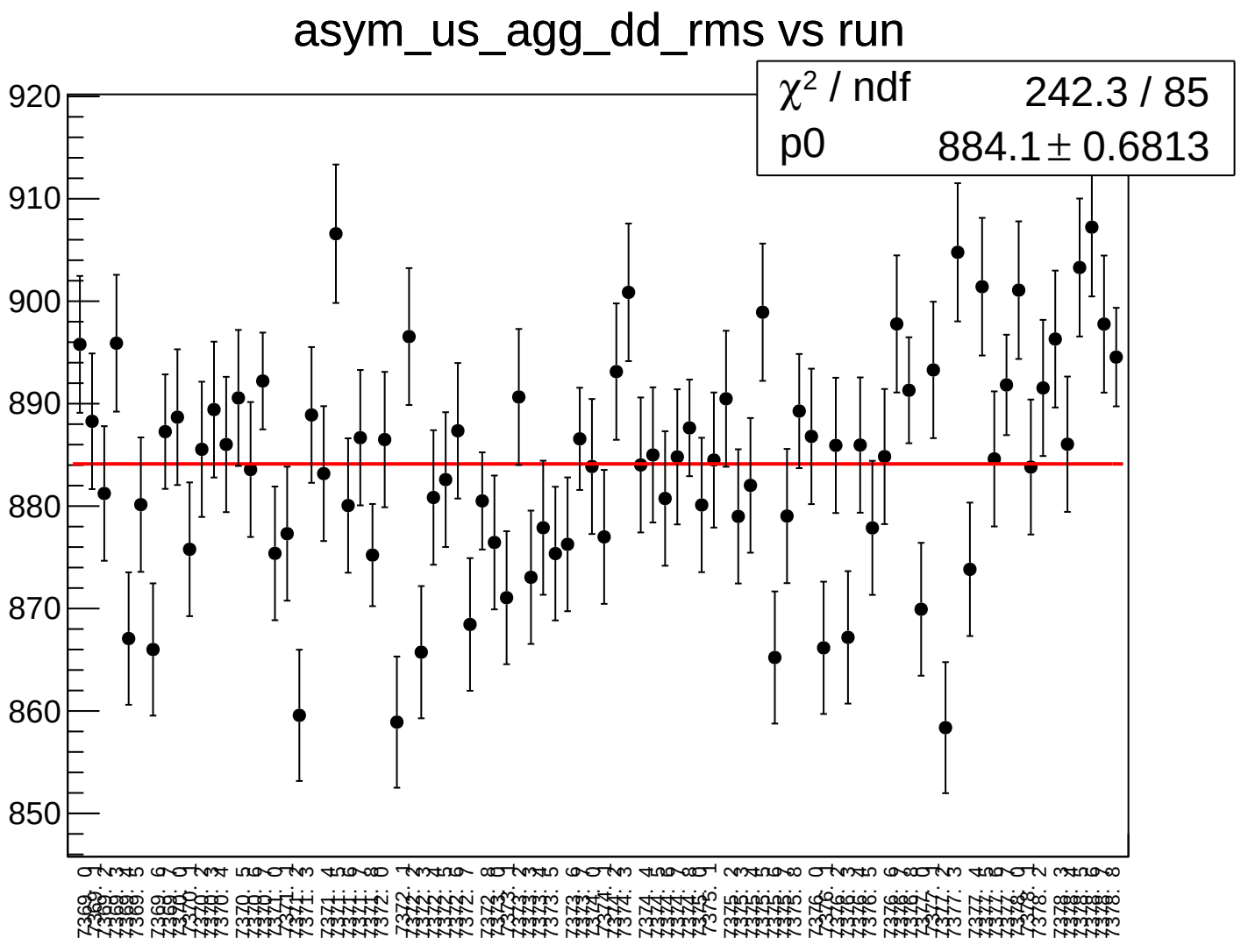

asym_us_agg_avg_mean vs run
χ² / ndf 132 / 85
p0 4460 ± 1754
pull
Entries 86
Mean −241.8
Std Dev 0

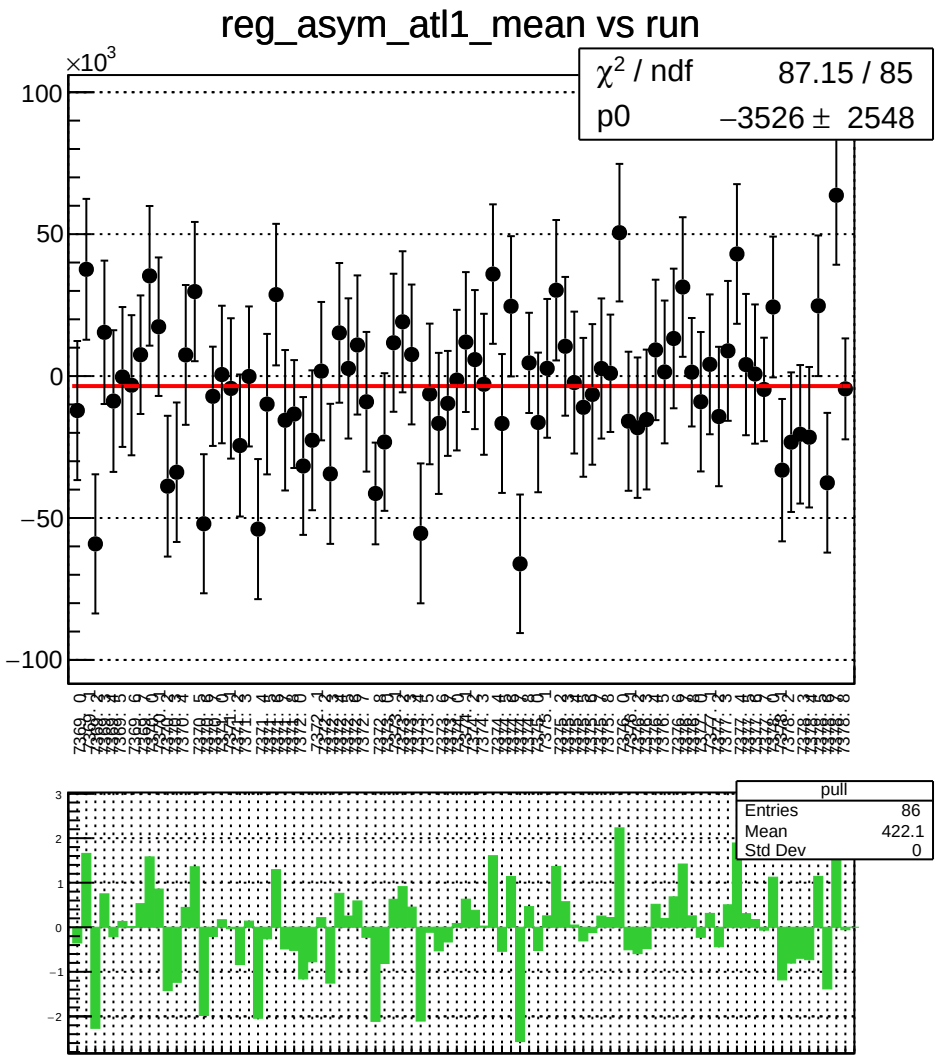

pull1D
Entries 86
Mean −0.005914
Std Dev 1.239

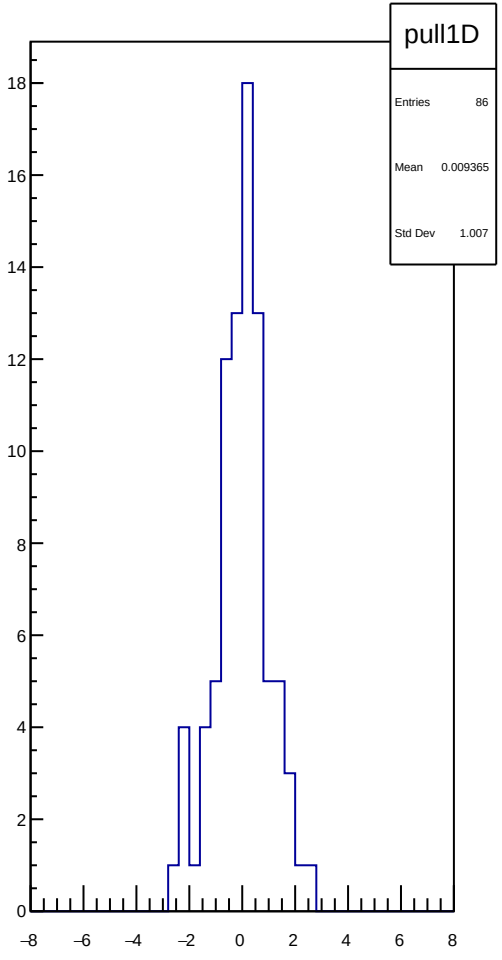

asym_us_agg_avg_rms vs run
χ² / ndf 1.832e+04 / 85
p0 1601 ± 1.24
2100
2000
1900
1800
1700
1600
1500
1400
1300

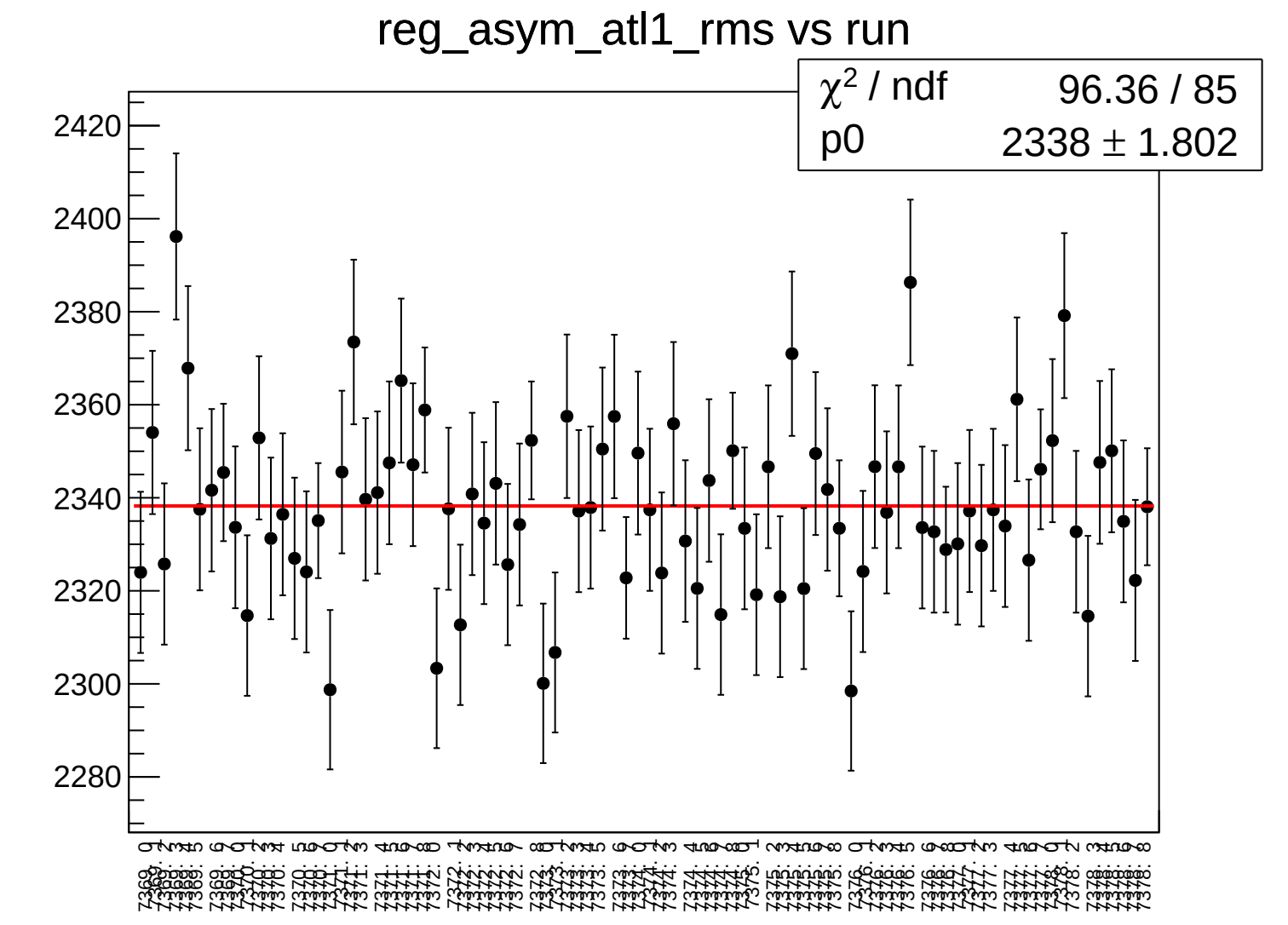

asym_us_agg_dd_mean vs run
χ² / ndf 101.4 / 85
p0 −901.6 ± 963.6
pull
Entries 86
Mean 312.3
Std Dev 0

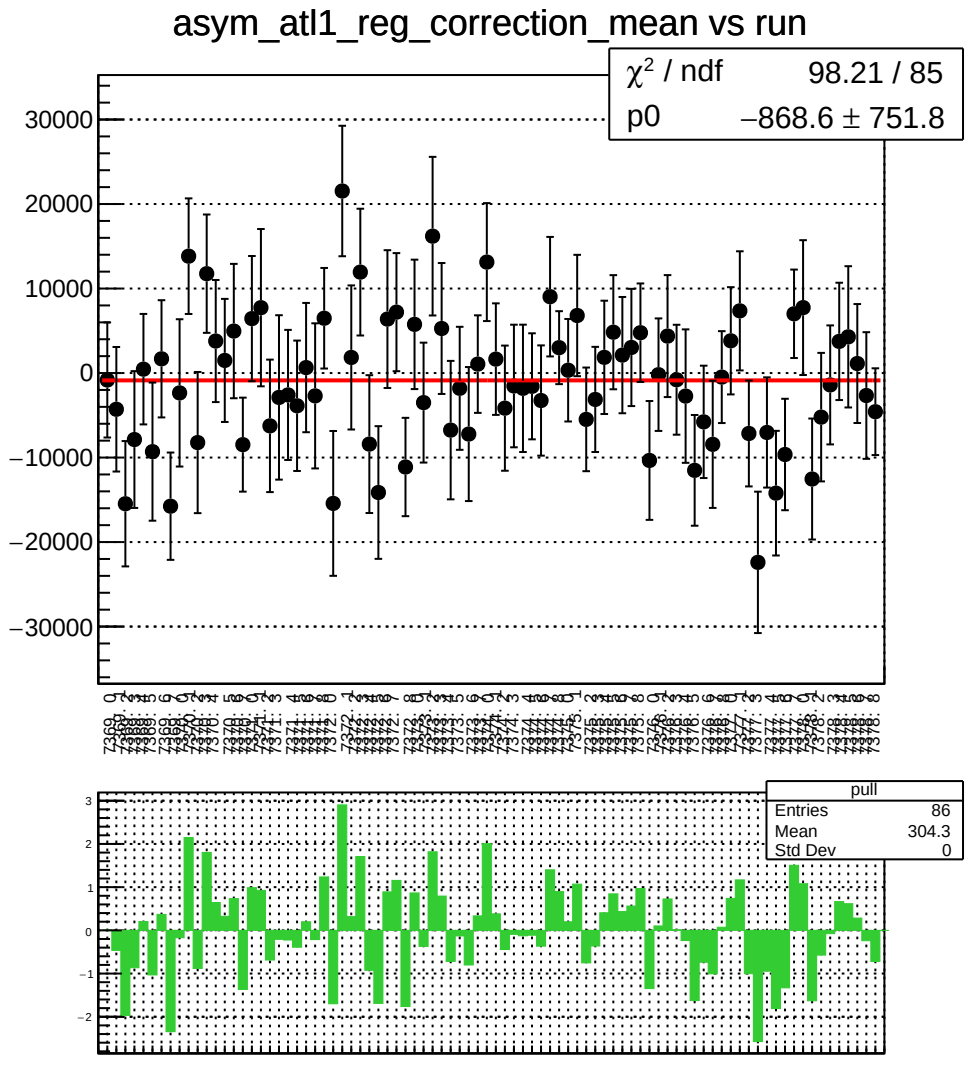

pull1D
Entries 86
Mean 0.01132
Std Dev 1.086

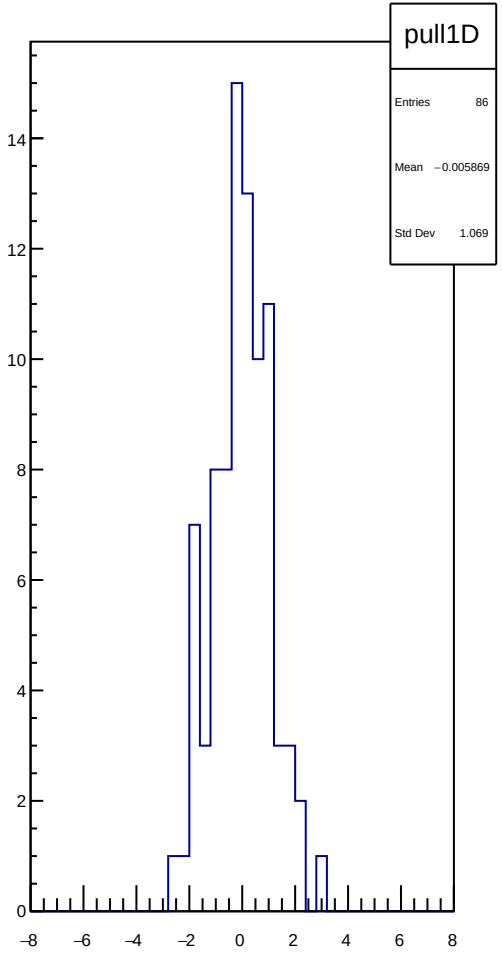

asym_us_agg_dd_rms vs run
χ^2 / ndf 242.3 / 85
p0 884.1 ± 0.6813
920
910
900
890
880
870
860
850

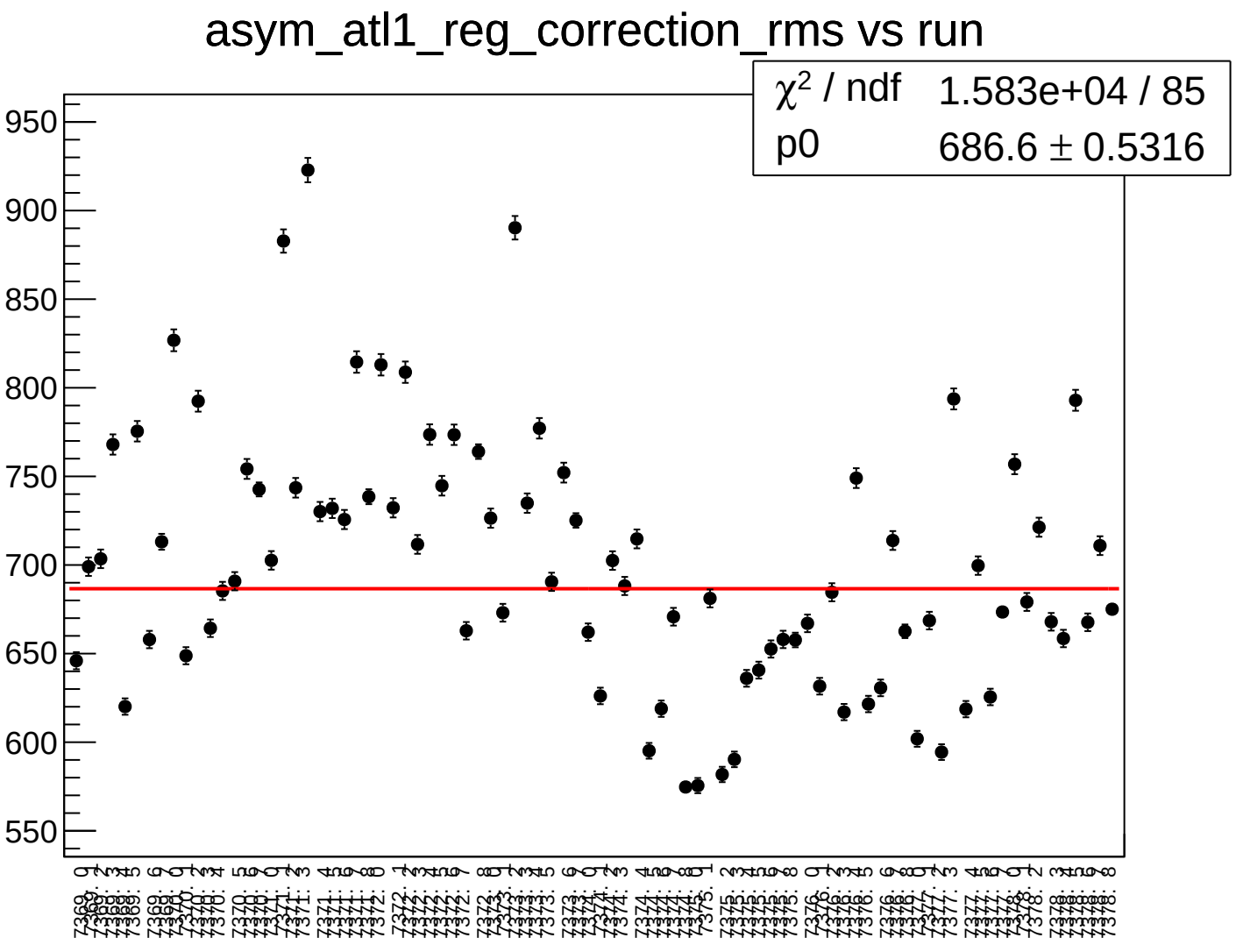

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 87.15 / 85
p0 −3526 ± 2548
pull
Entries 86
Mean 422.1
Std Dev 0

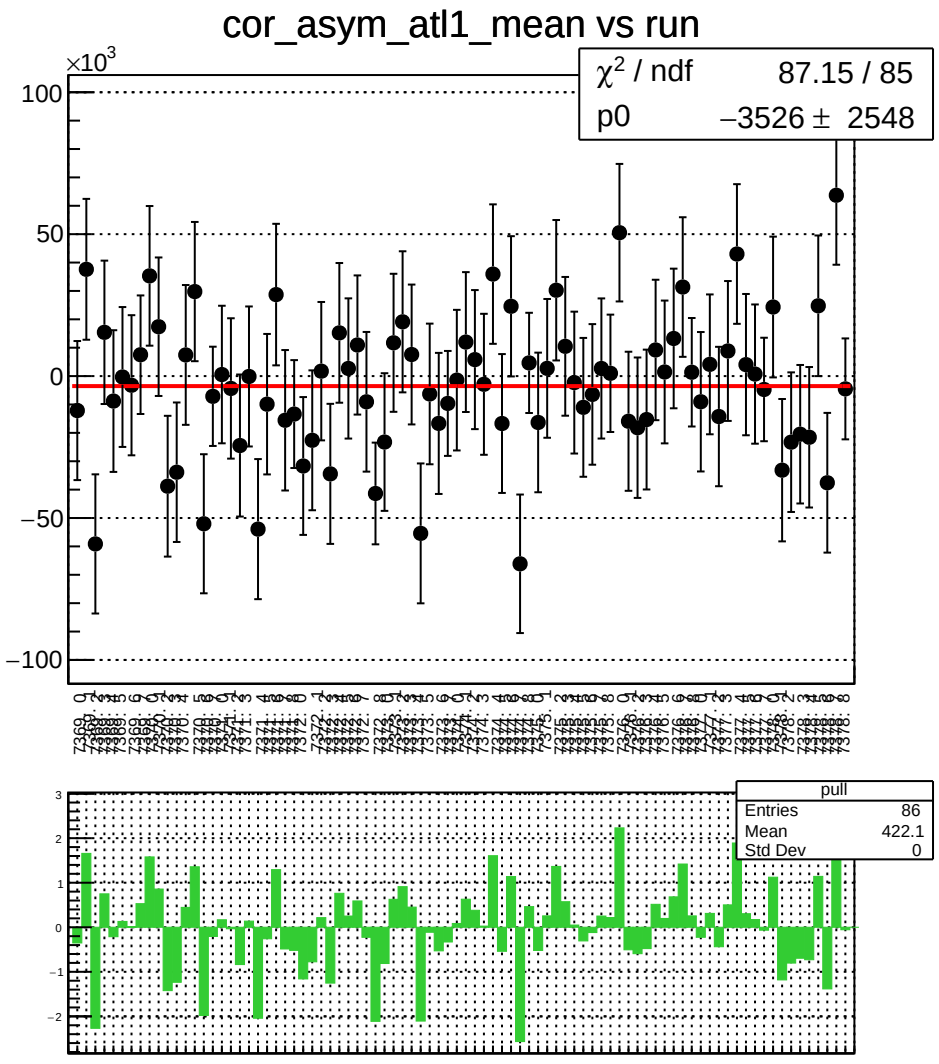

pull1D
Entries 86
Mean 0.009365
Std Dev 1.007

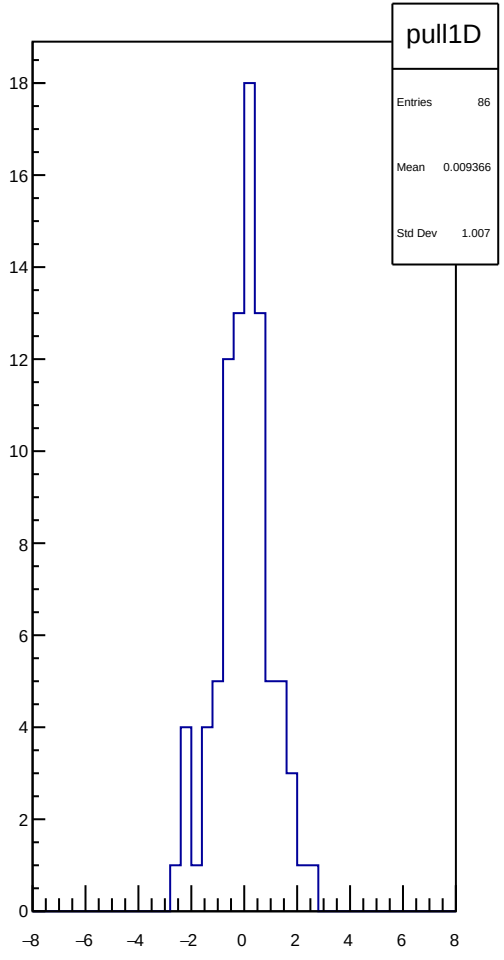

reg_asym_atl1_rms vs run
χ^2 / ndf 96.36 / 85
p0 2338 ± 1.802
2420
2400
2380
2360
2340
2320
2300
2280

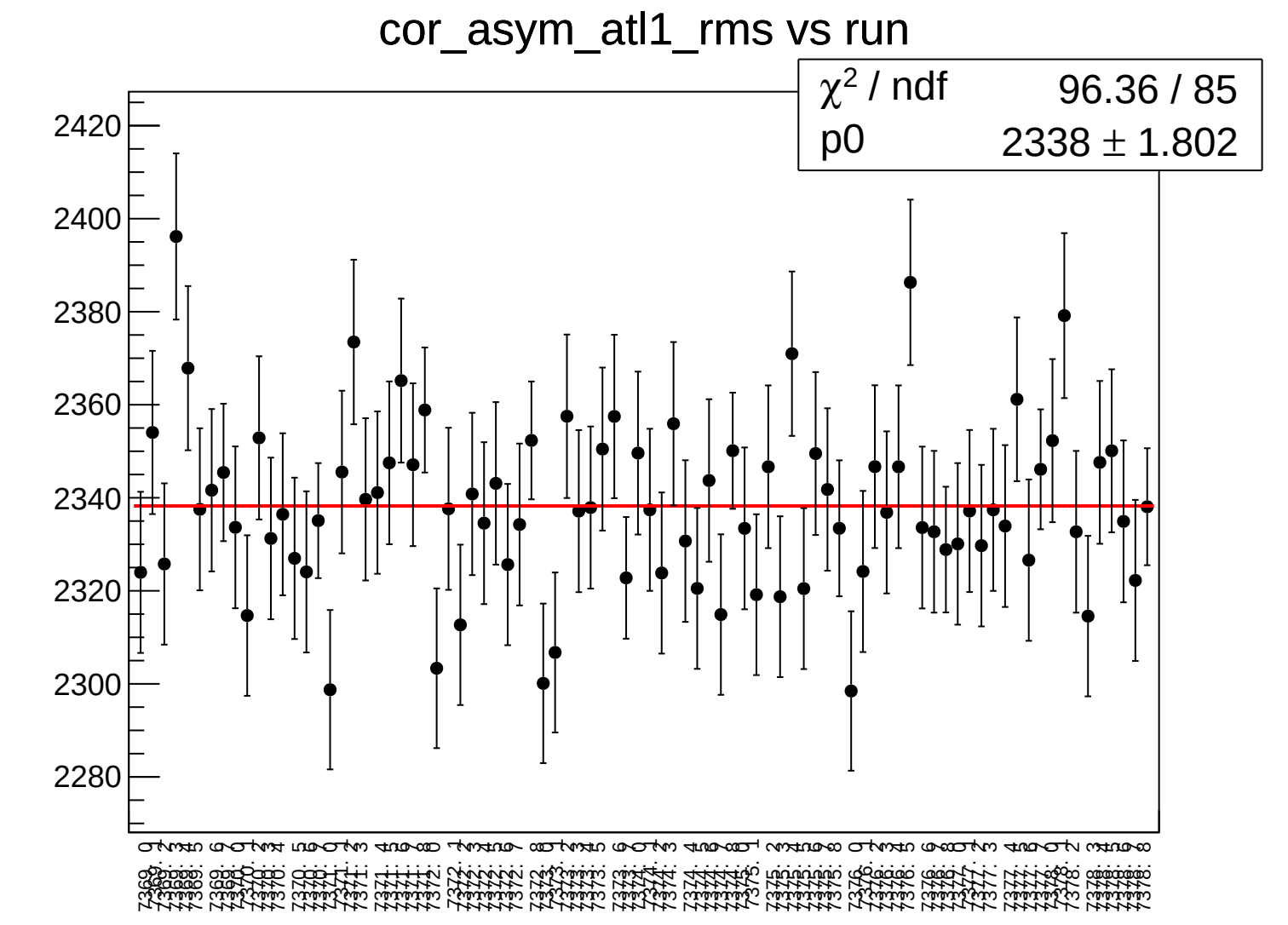

asym_atl1_reg_correction_mean vs run
χ² / ndf 98.21 / 85
p0 −868.6 ± 751.8
pull
Entries 86
Mean 304.3
Std Dev 0

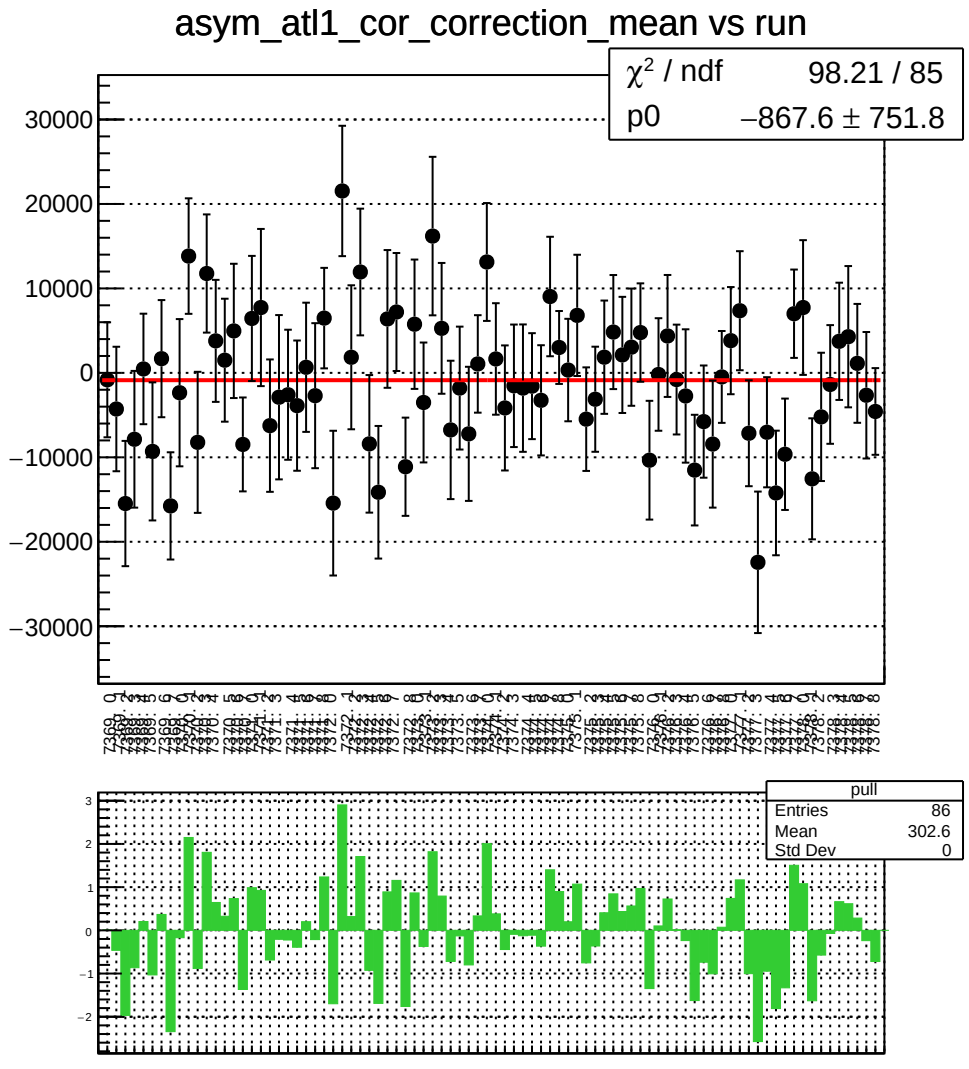

pull1D
Entries 86
Mean −0.005869
Std Dev 1.069

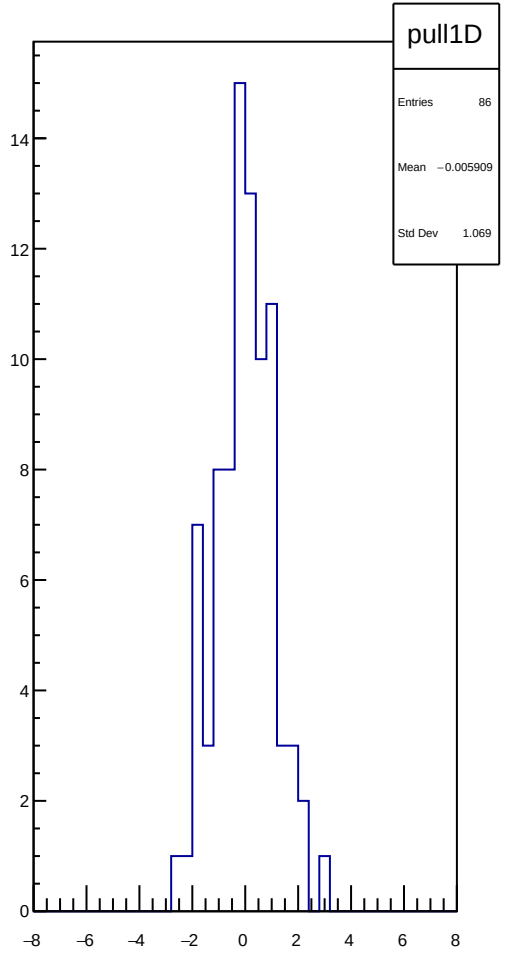

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.583e+04 / 85
p0 686.6 ± 0.5316
950
900
850
800
750
700
650
600
550

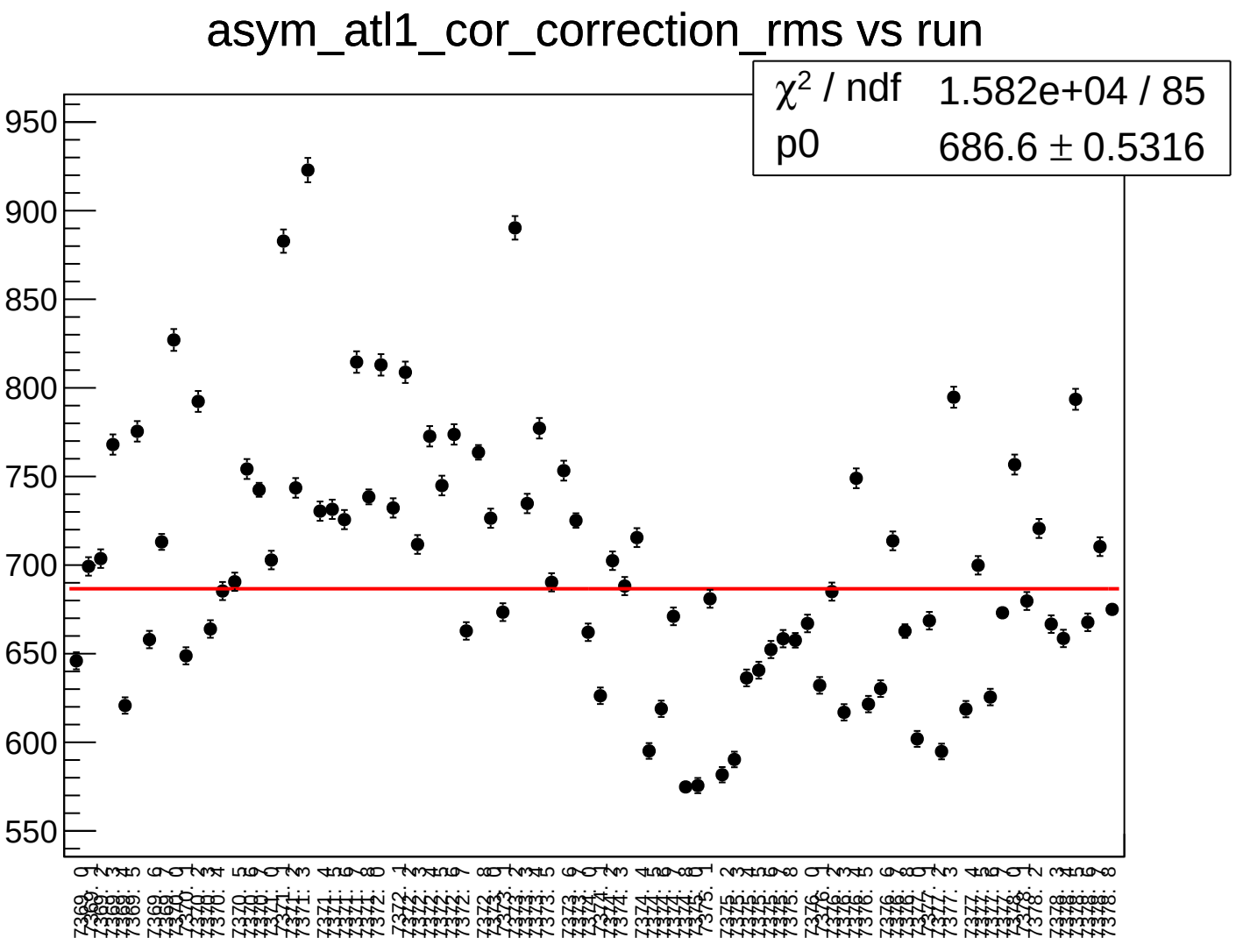

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 87.15 / 85
p0 −3526 ± 2548
100
50
0
−50
−100
pull
Entries 86
Mean 422.1
Std Dev 0
3
2
1
0
−1
−2

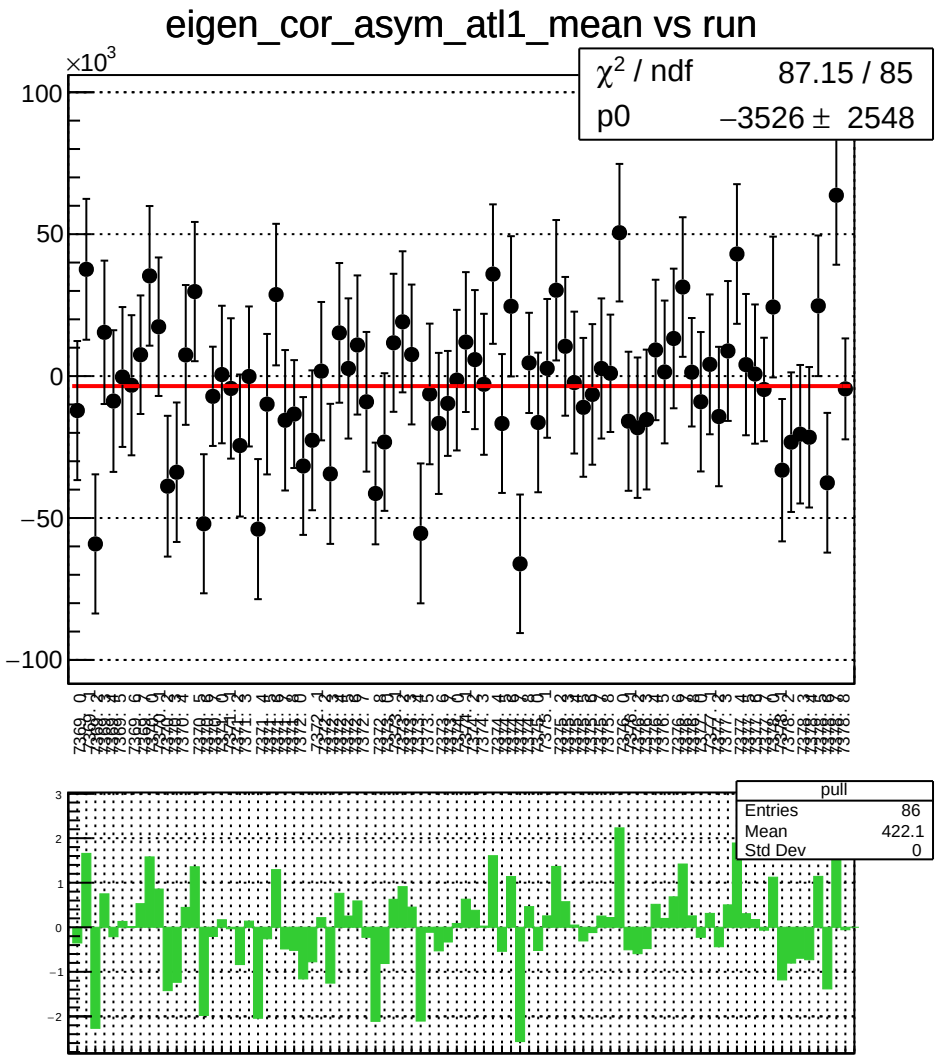

pull1D
Entries 86
Mean 0.009366
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

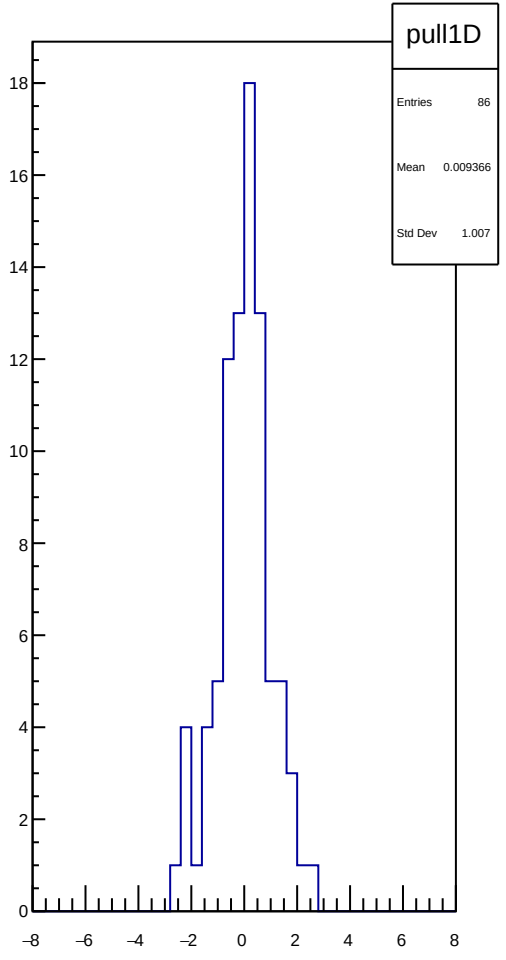

cor_asym_atl1_rms vs run
χ^2 / ndf 96.36 / 85
p0 2338 ± 1.802
2420
2400
2380
2360
2340
2320
2300
2280

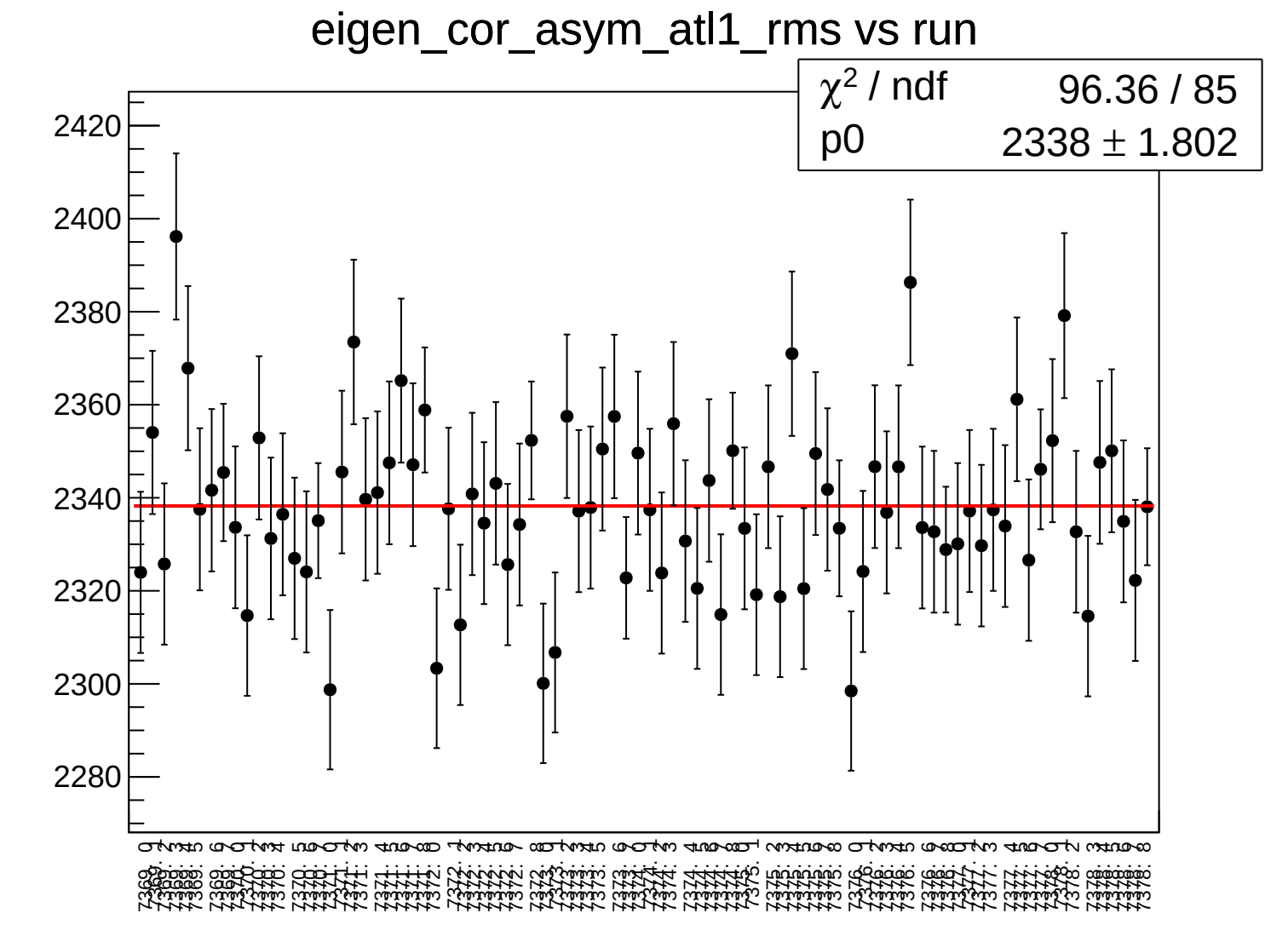

asym_atl1_cor_correction_mean vs run
χ² / ndf 98.21 / 85
p0 −867.6 ± 751.8
pull
Entries 86
Mean 302.6
Std Dev 0

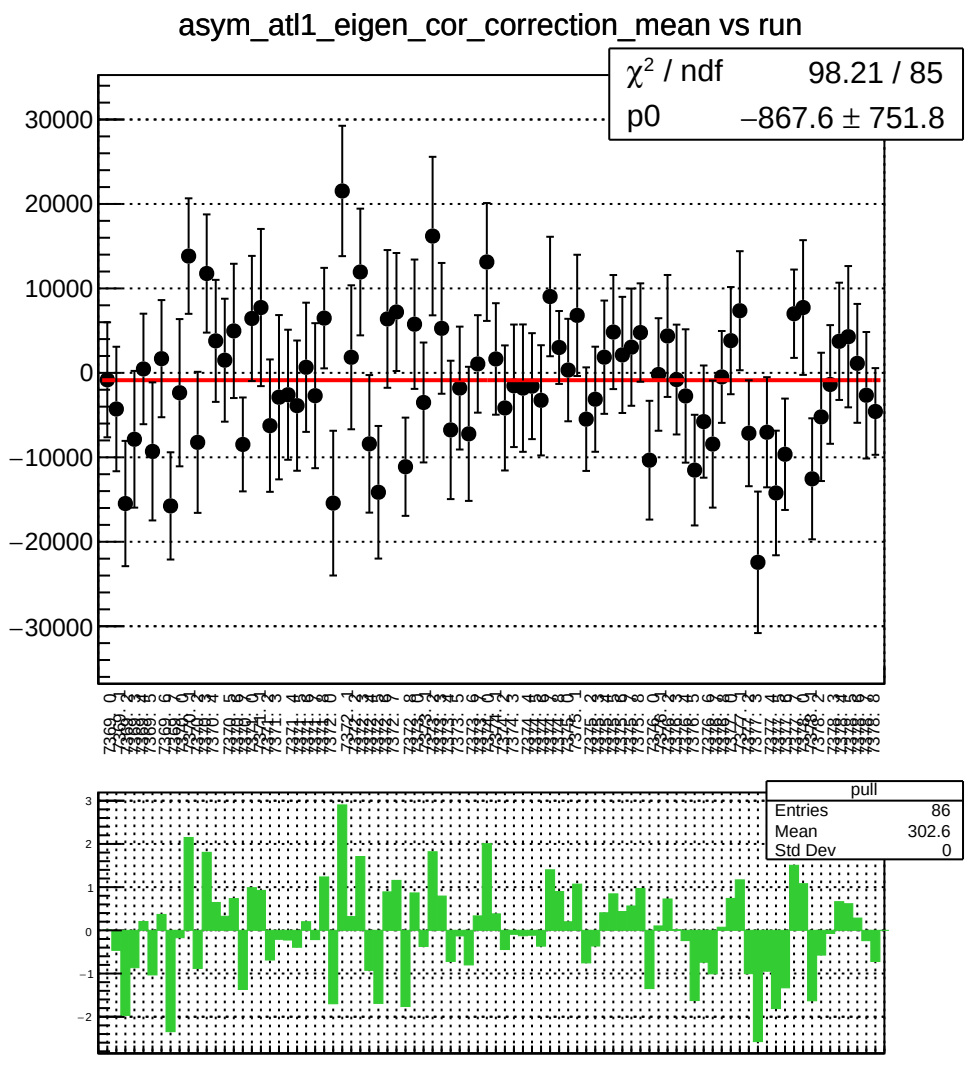

pull1D
Entries 86
Mean −0.005909
Std Dev 1.069

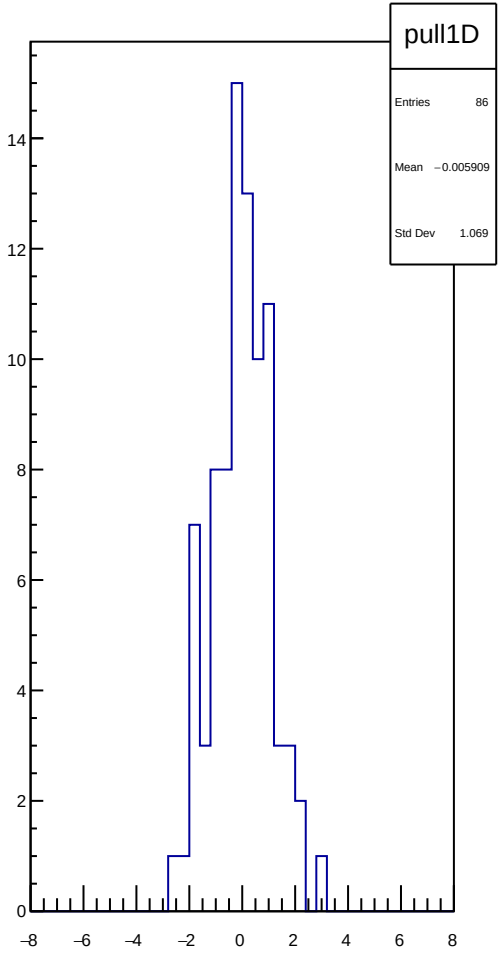

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.582e+04 / 85
p0 686.6 ± 0.5316
950
900
850
800
750
700
650
600
550

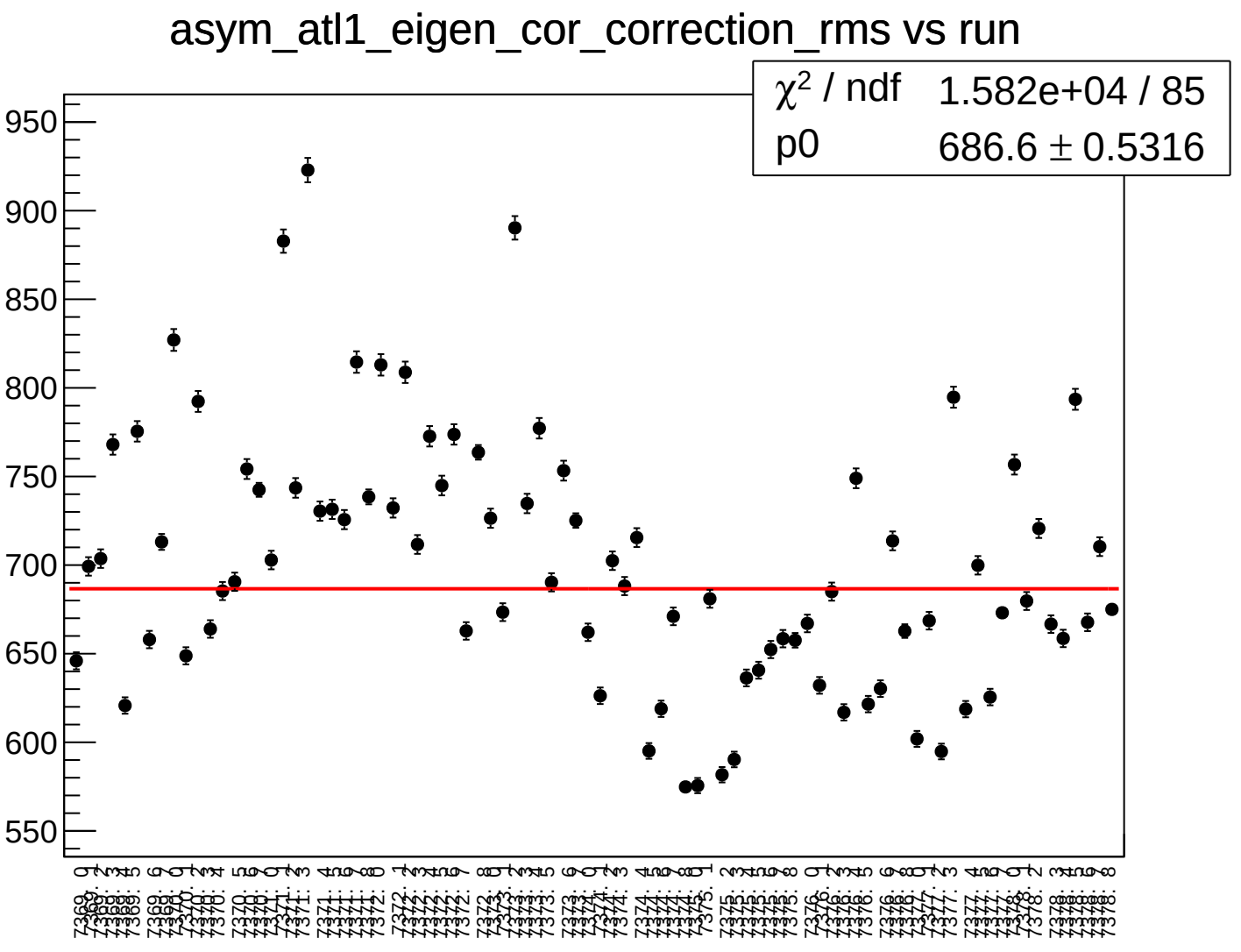

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 87.15 / 85
p0 −3526 ± 2548
100
50
0
−50
−100
pull
Entries 86
Mean 422.1
Std Dev 0
3
2
1
0
−1
−2

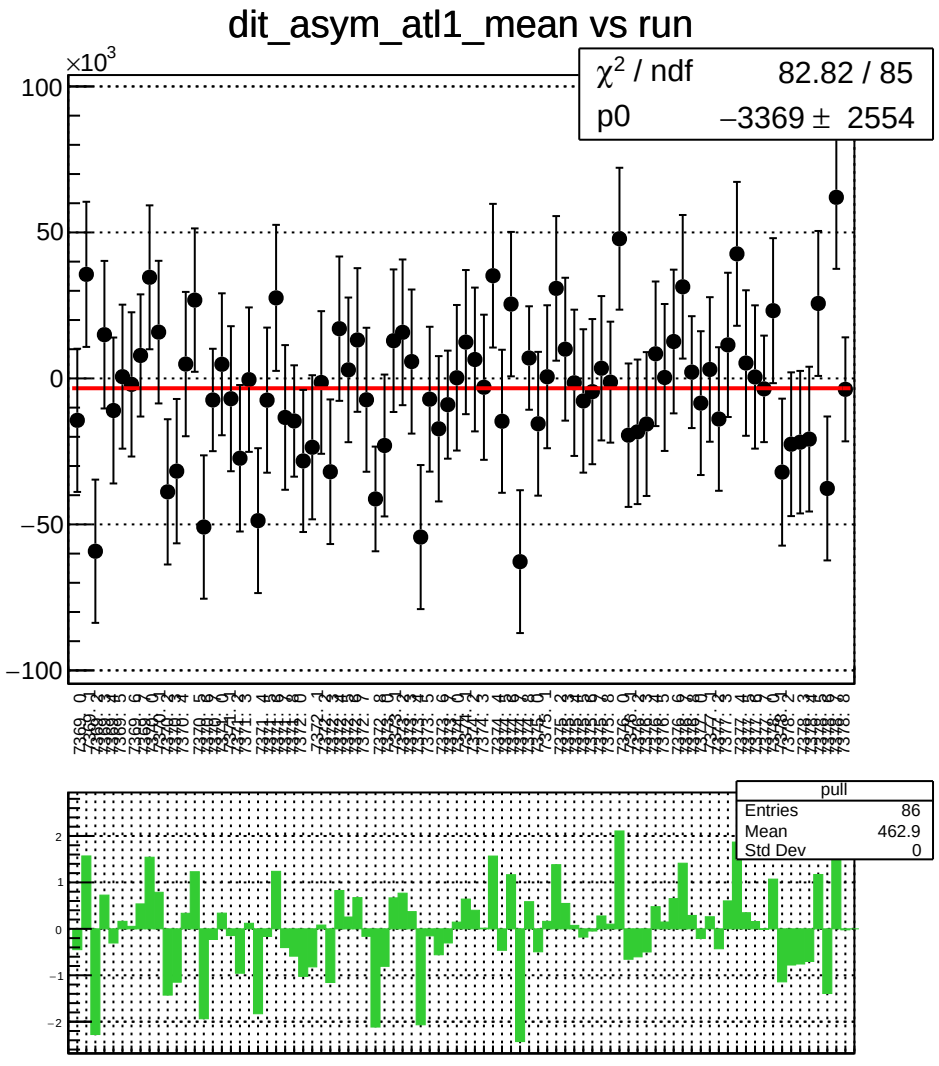

pull1D
Entries 86
Mean 0.009366
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

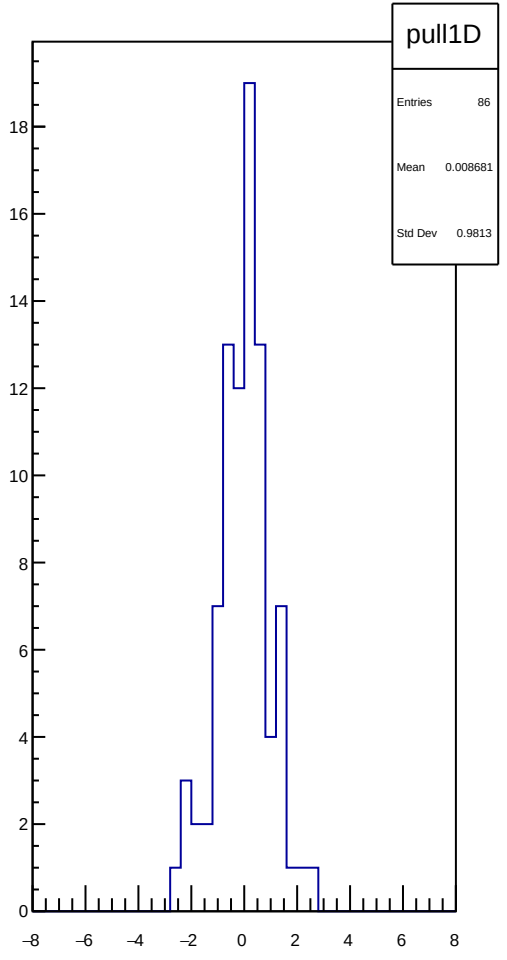

eigen_cor_asym_atl1_rms vs run
χ² / ndf 96.36 / 85
p0 2338 ± 1.802
2420
2400
2380
2360
2340
2320
2300
2280

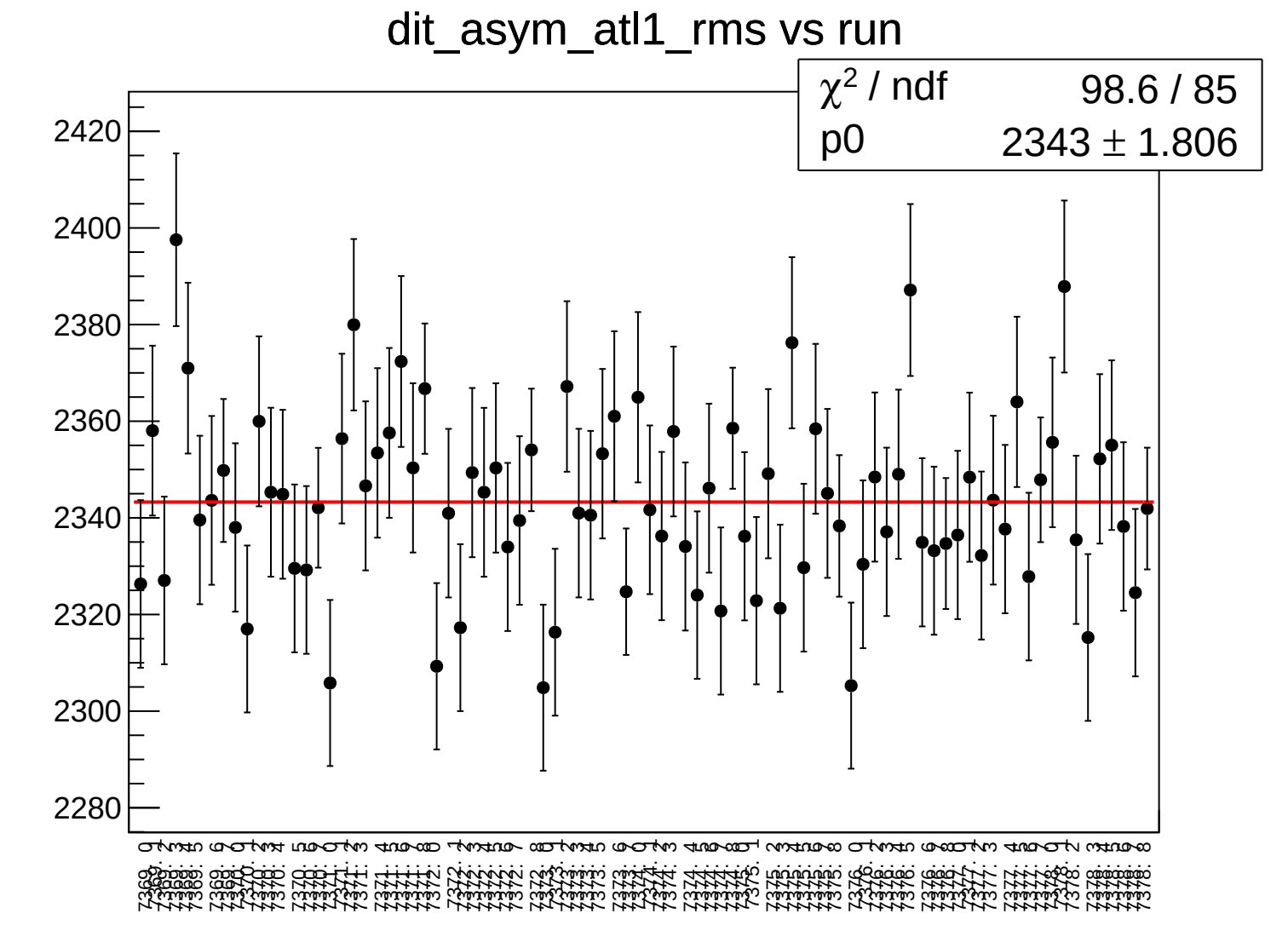

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 98.21 / 85
p0 −867.6 ± 751.8
pull
Entries 86
Mean 302.6
Std Dev 0

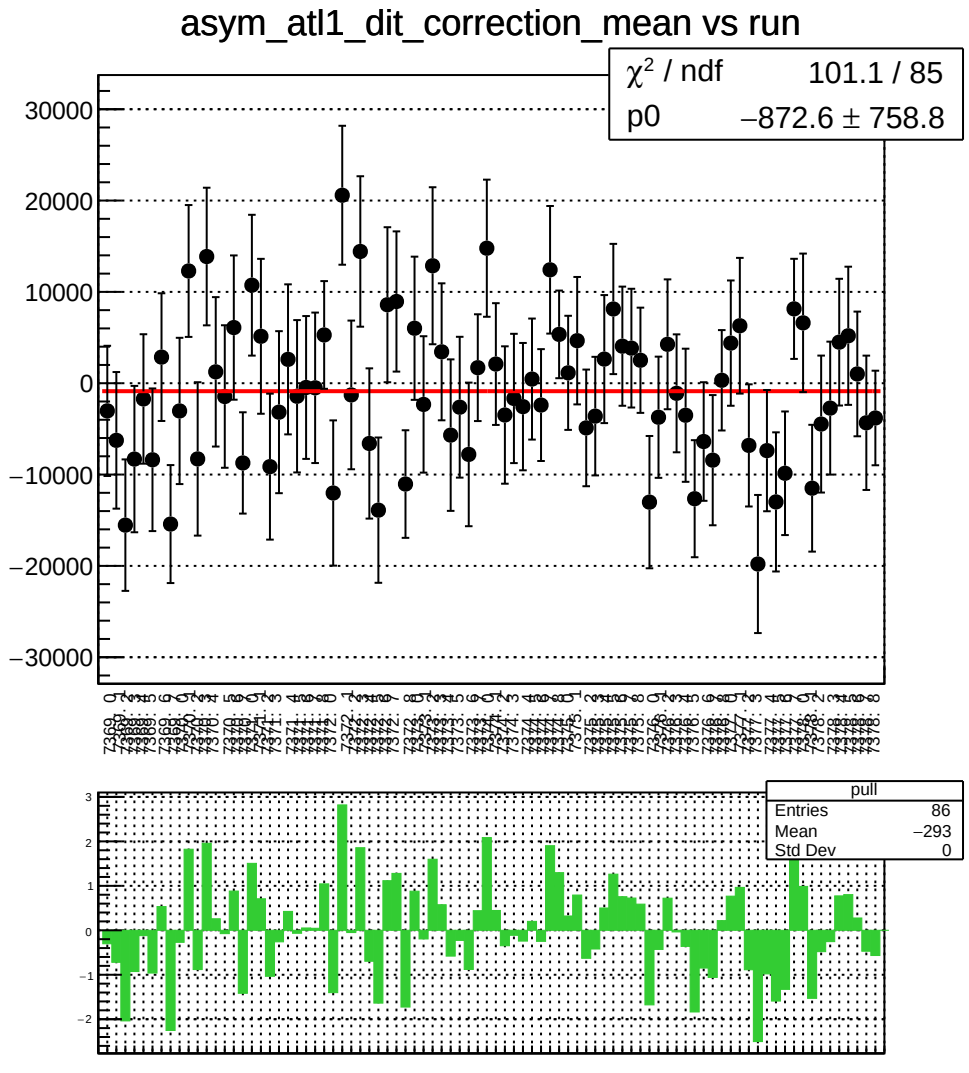

pull1D
Entries 86
Mean −0.005909
Std Dev 1.069

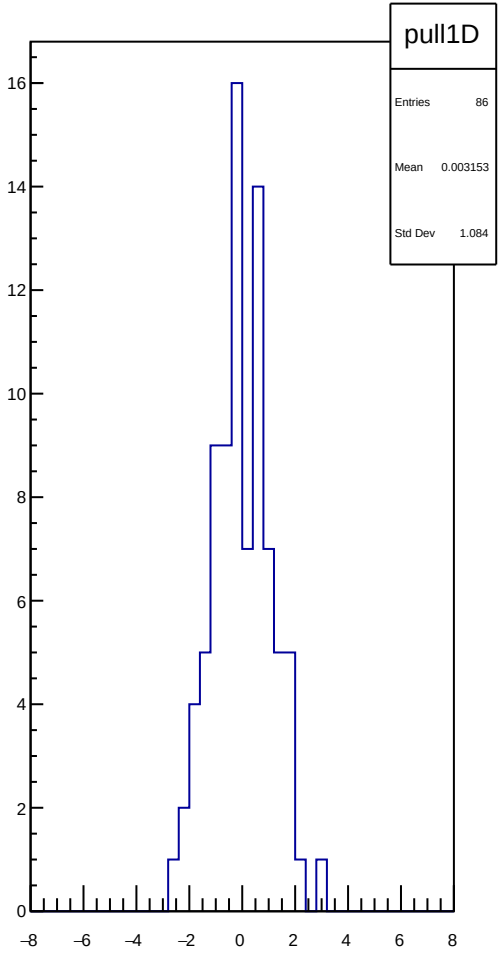

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.582e+04 / 85
p0 686.6 ± 0.5316
950
900
850
800
750
700
650
600
550

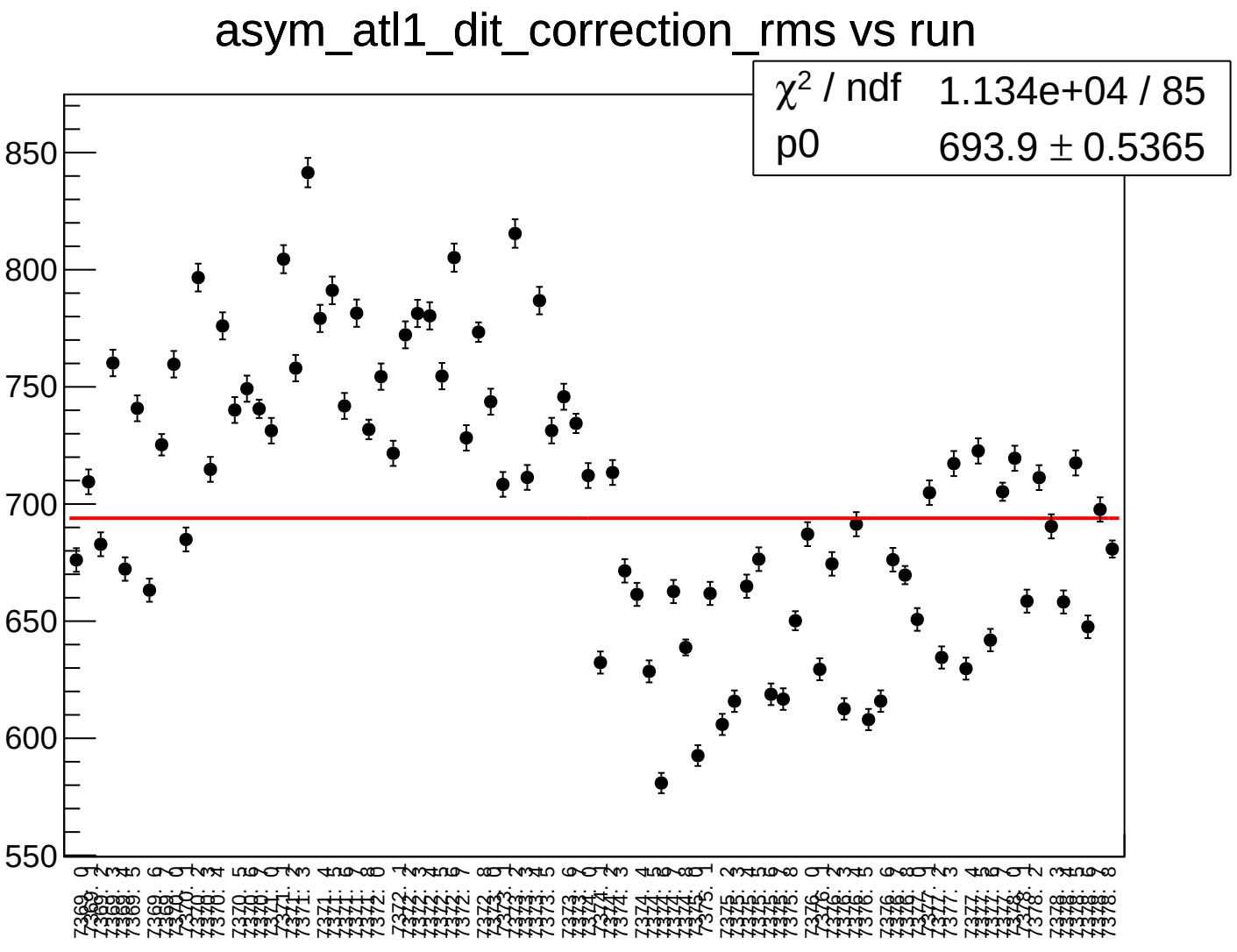

dit_asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 82.82 / 85
p0 −3369 ± 2554
pull
Entries 86
Mean 462.9
Std Dev 0
2
1
0
−1
−2

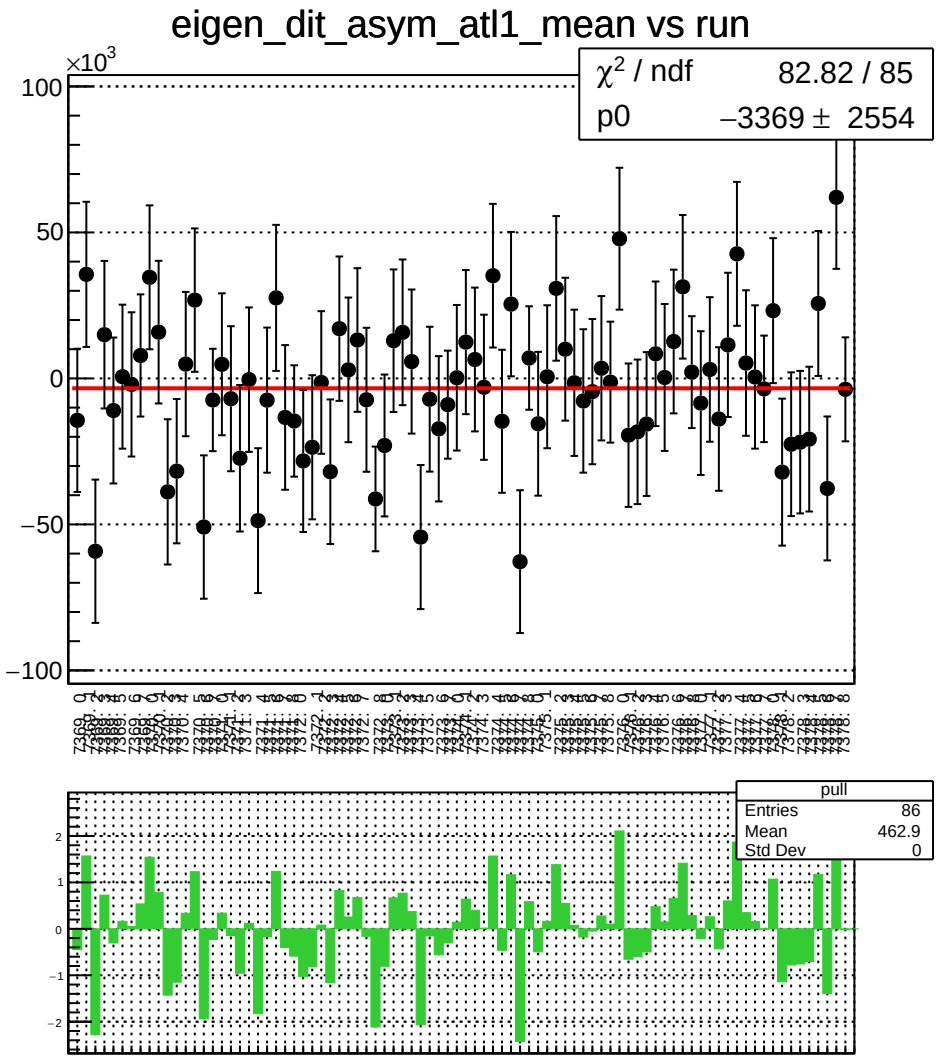

pull1D
Entries 86
Mean 0.008681
Std Dev 0.9813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

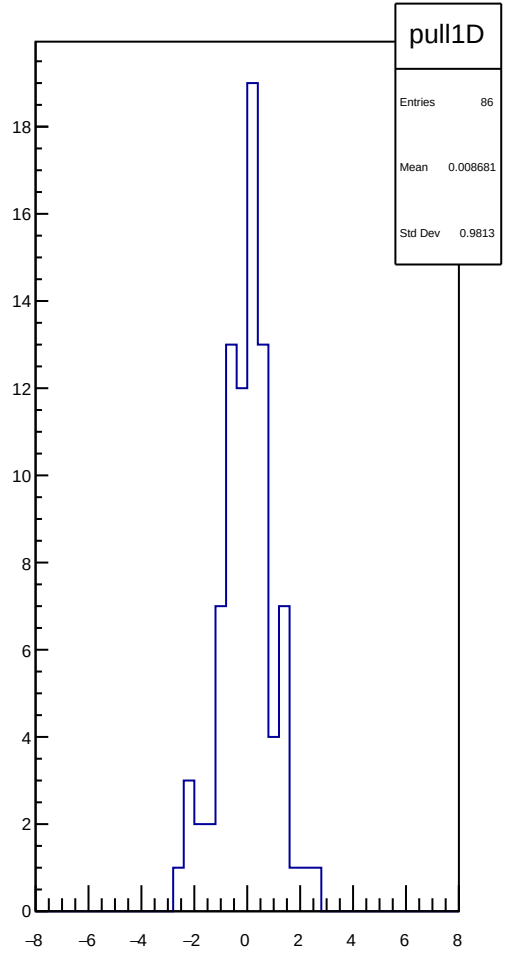

dit_asym_atl1_rms vs run
χ^2 / ndf 98.6 / 85
p0 2343 ± 1.806
2420
2400
2380
2360
2340
2320
2300
2280

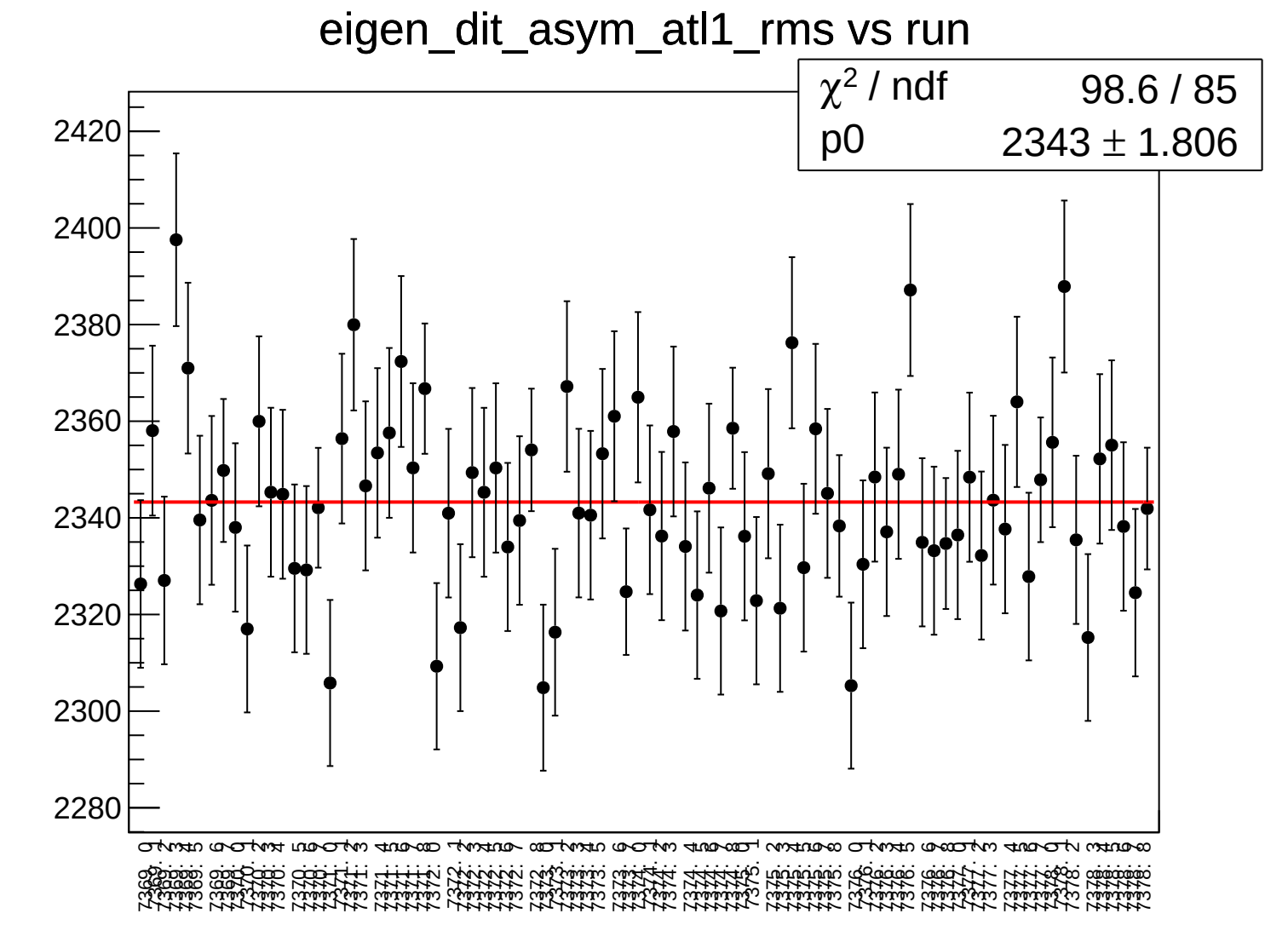

asym_atl1_dit_correction_mean vs run
χ² / ndf 101.1 / 85
p0 −872.6 ± 758.8
pull
Entries 86
Mean −293
Std Dev 0

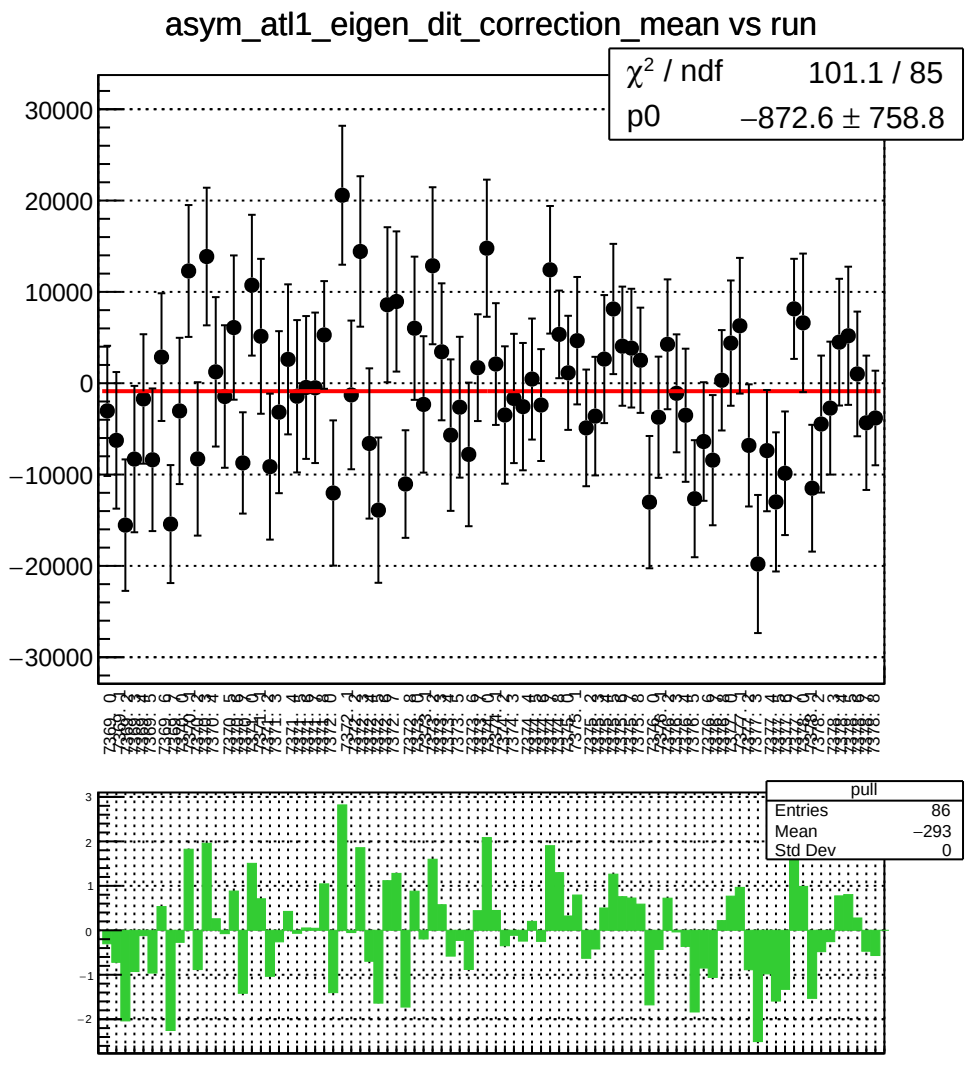

pull1D
Entries 86
Mean 0.003153
Std Dev 1.084

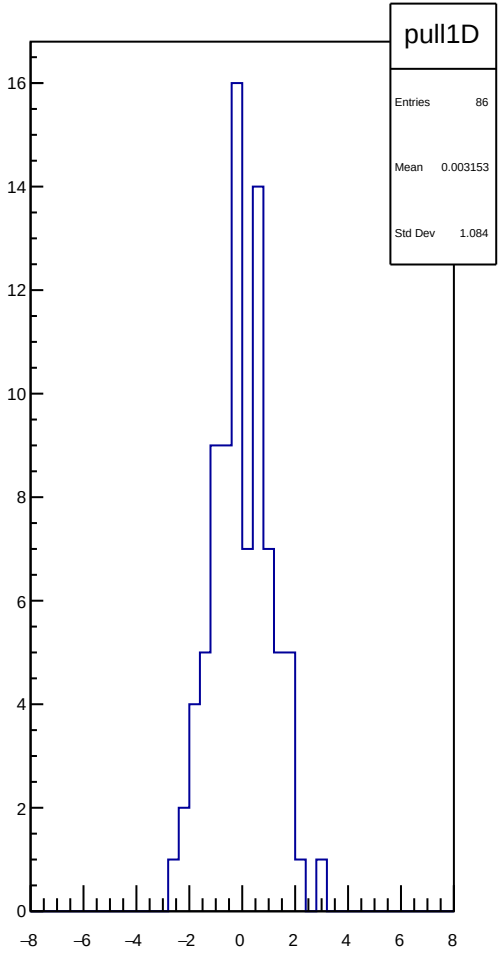

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.134e+04 / 85
p0 693.9 ± 0.5365
850
800
750
700
650
600
550

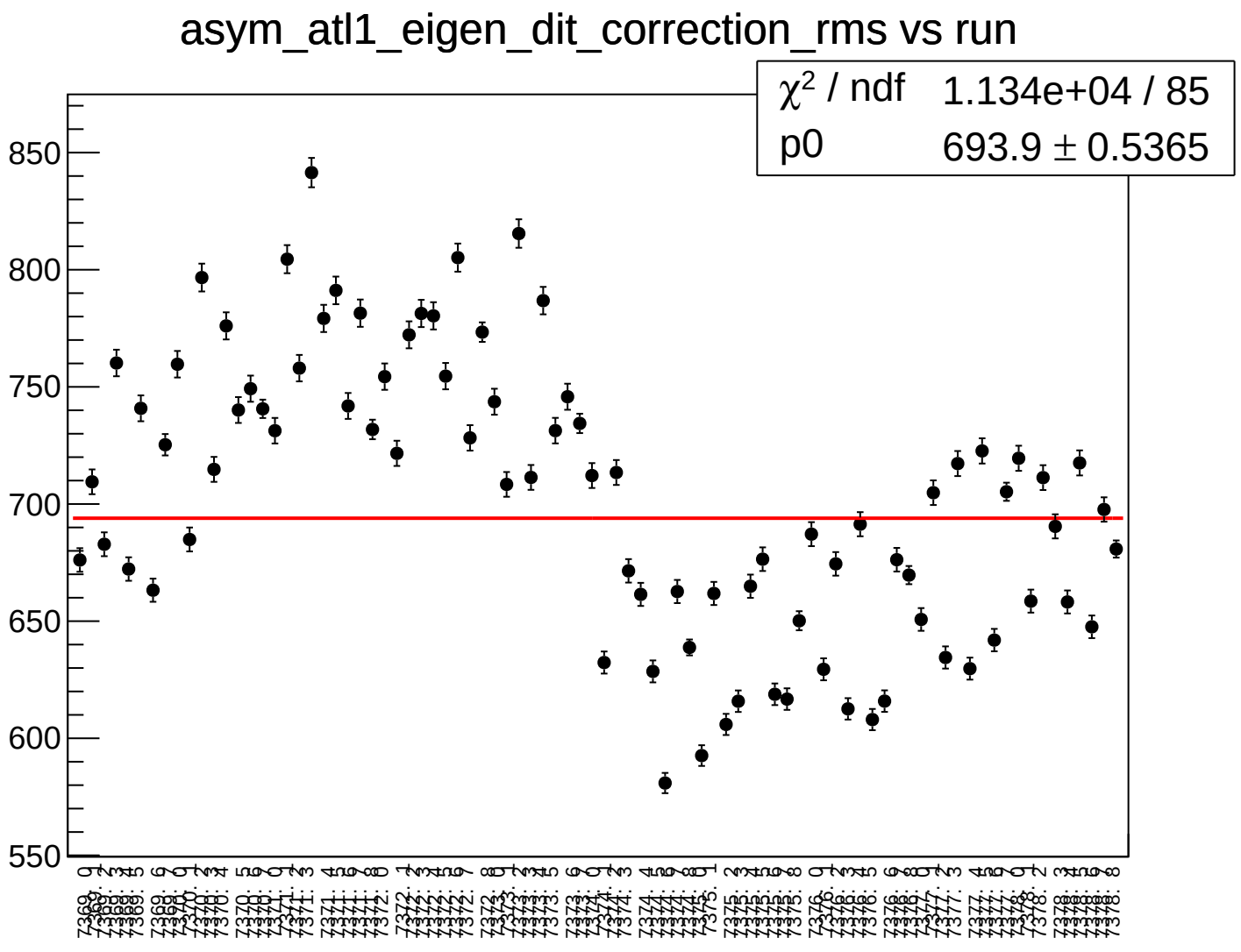

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 82.82 / 85
p0 −3369 ± 2554
100
50
0
−50
−100
pull
Entries 86
Mean 462.9
Std Dev 0
2
1
0
−1
−2

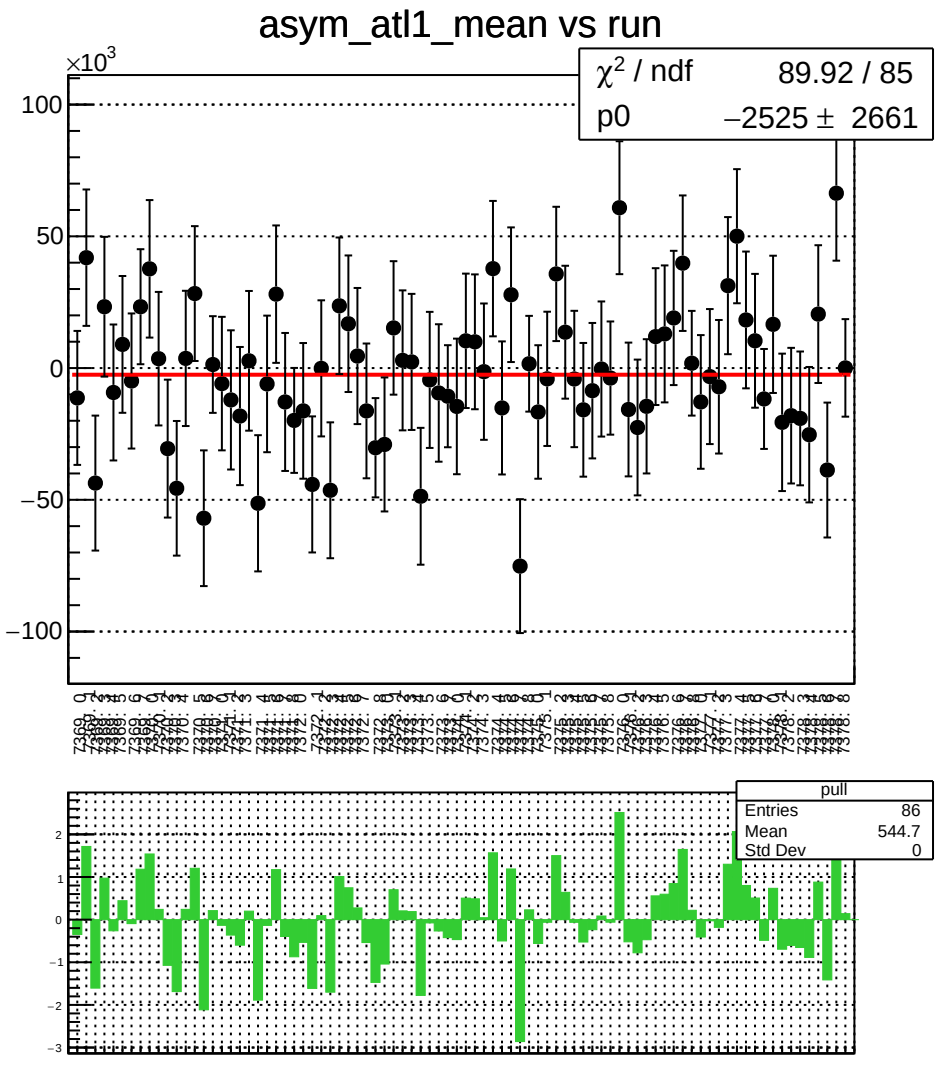

pull1D
Entries 86
Mean 0.008681
Std Dev 0.9813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

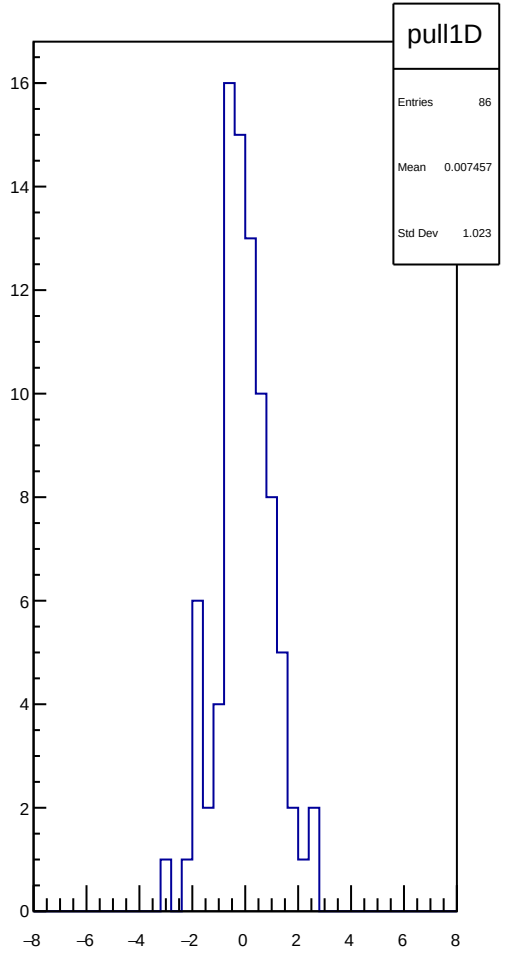

eigen_dit_asym_atl1_rms vs run
χ² / ndf 98.6 / 85
p0 2343 ± 1.806
2420
2400
2380
2360
2340
2320
2300
2280

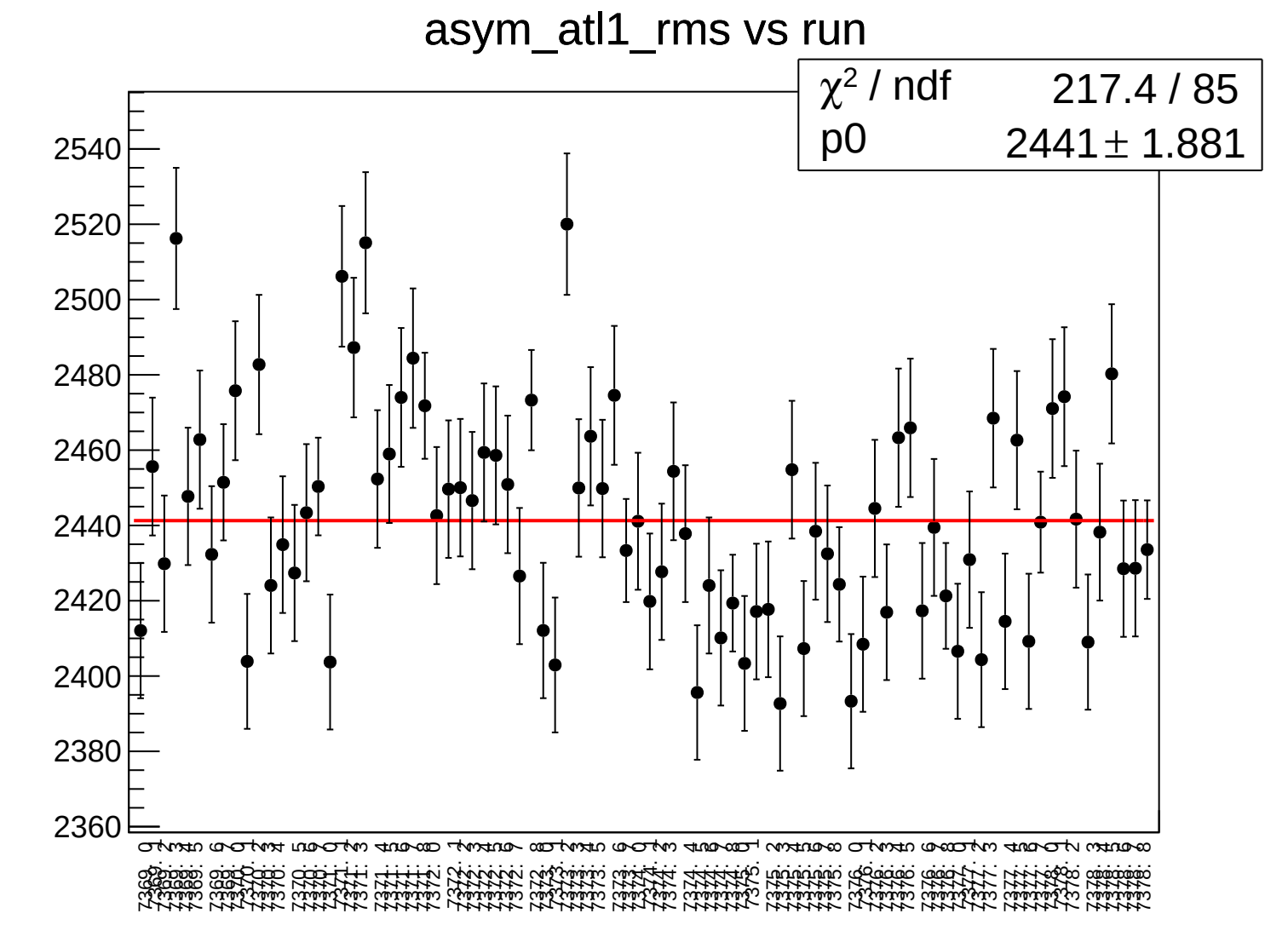

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 101.1 / 85
p0 −872.6 ± 758.8
pull
Entries 86
Mean −293
Std Dev 0

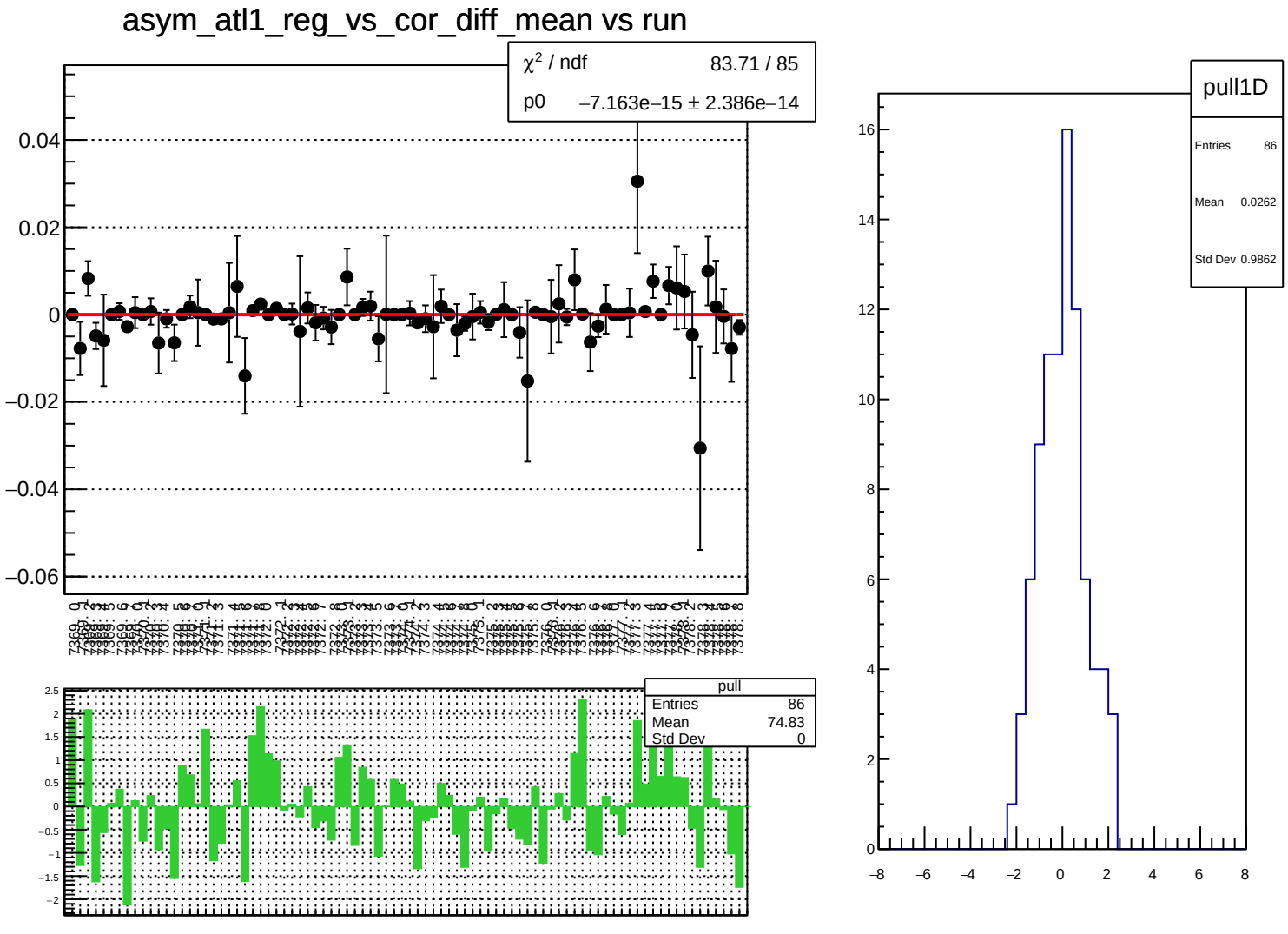

pull1D
Entries 86
Mean 0.003153
Std Dev 1.084

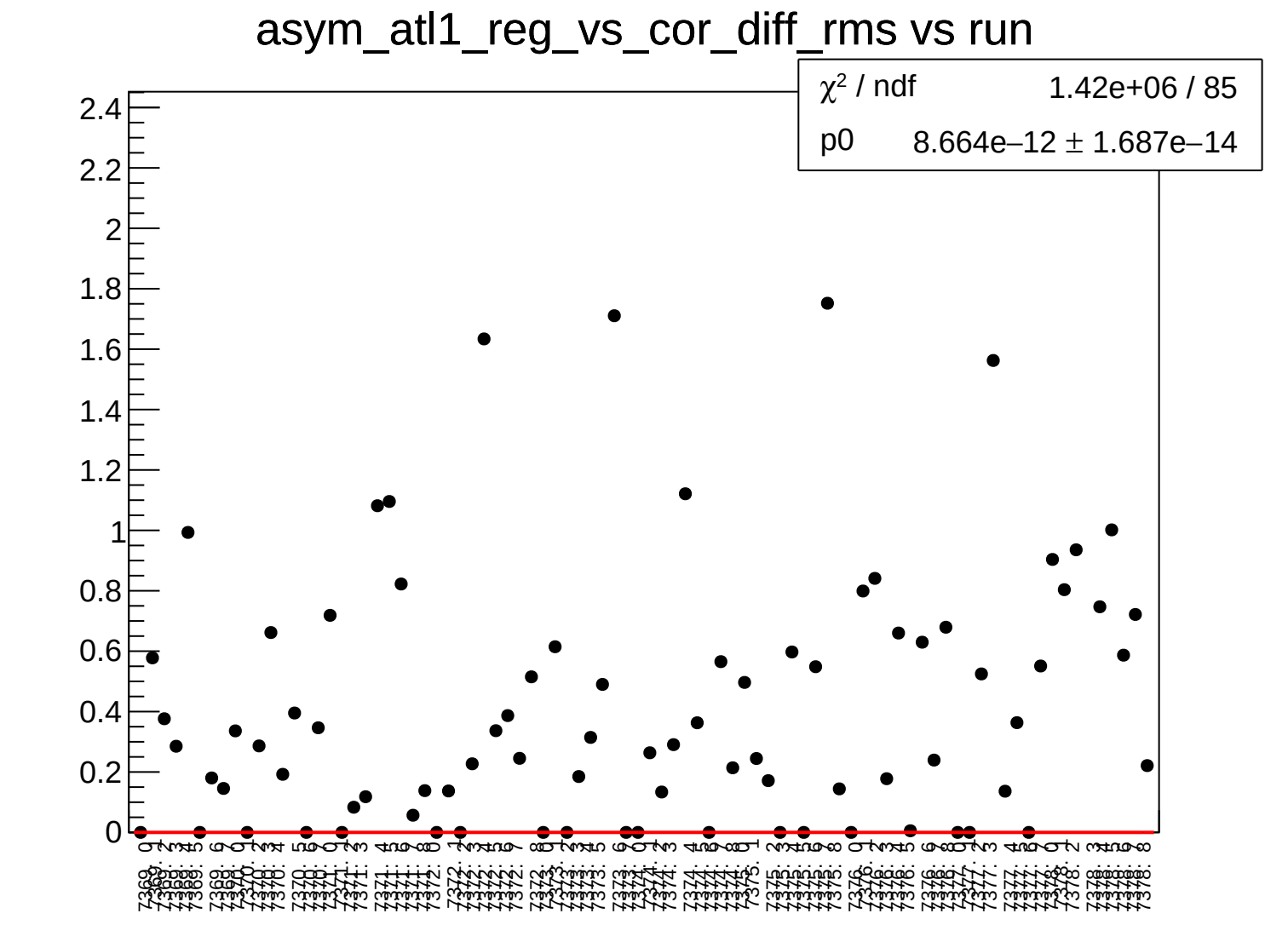

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.134e+04 / 85
p0 693.9 ± 0.5365
850
800
750
700
650
600
550

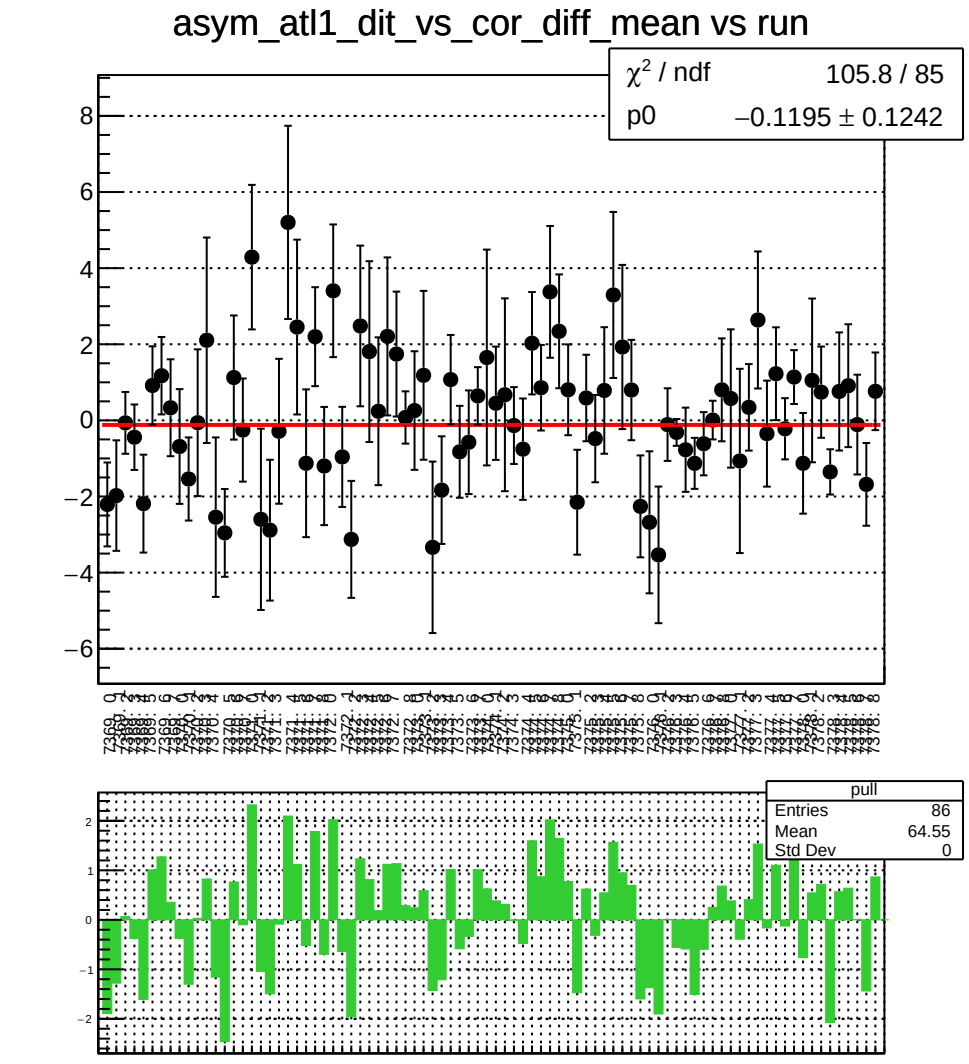

asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 89.92 / 85
p0 −2525 ± 2661
pull
Entries 86
Mean 544.7
Std Dev 0
2
1
0
−1
−2
−3

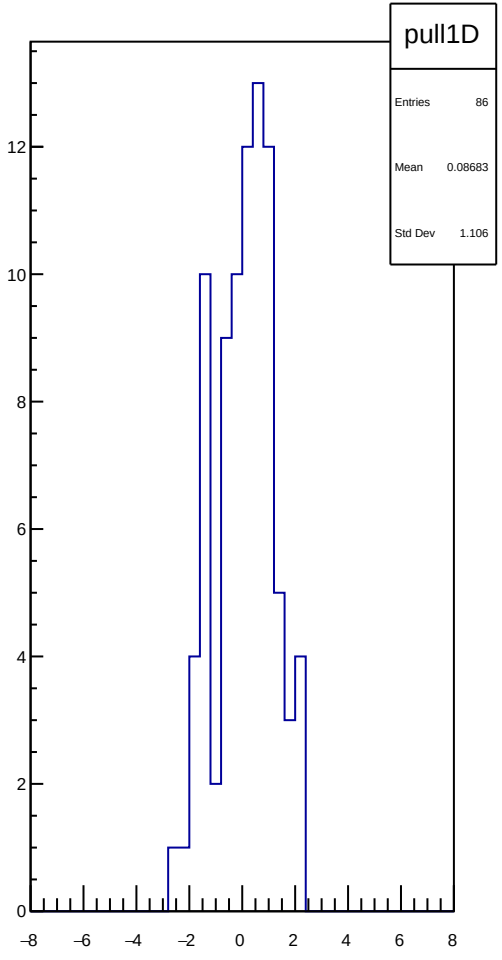

pull1D
Entries 86
Mean 0.007457
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

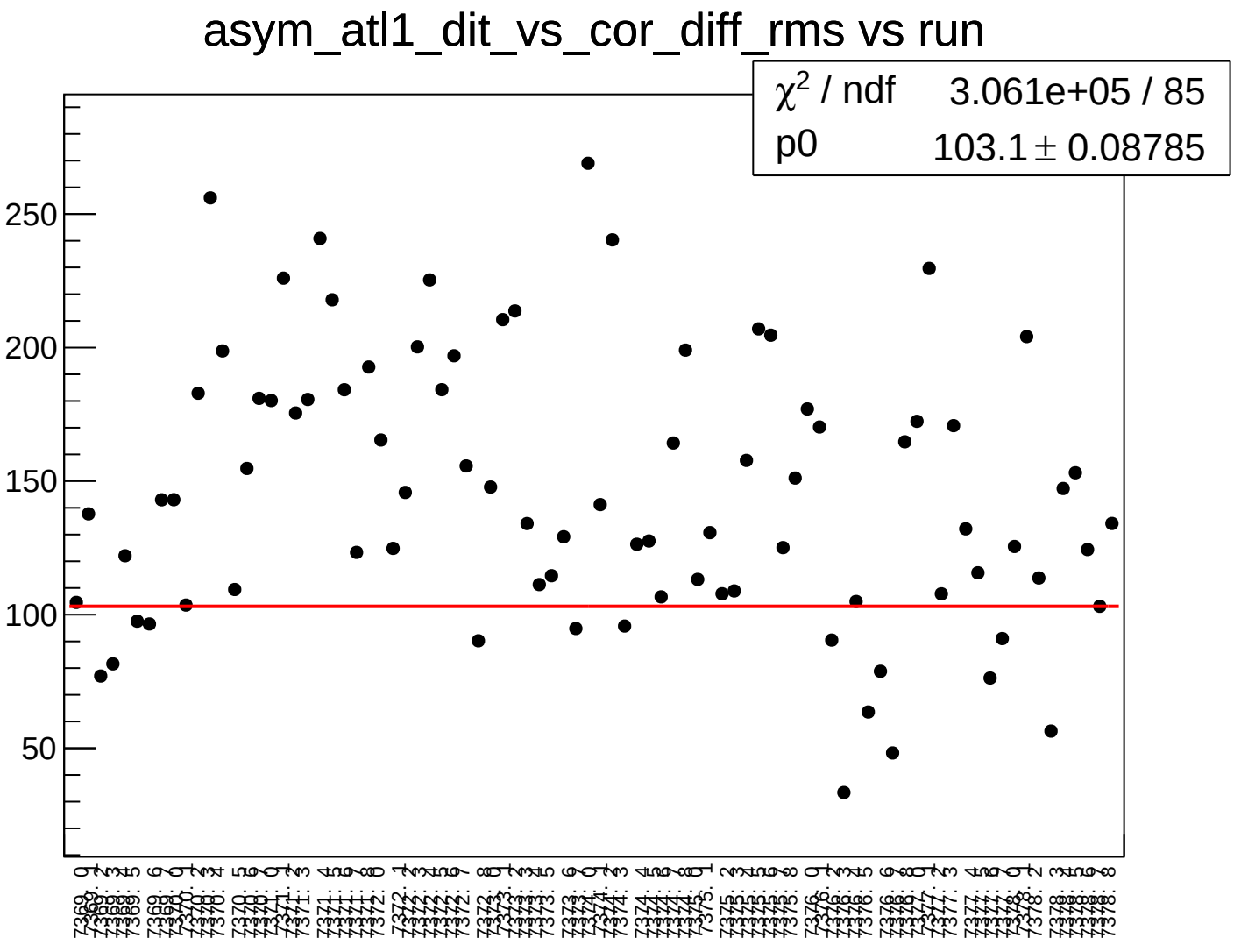

asym_atl1_rms vs run
χ^2 / ndf 217.4 / 85
p0 2441 ± 1.881
2540
2520
2500
2480
2460
2440
2420
2400
2380
2360

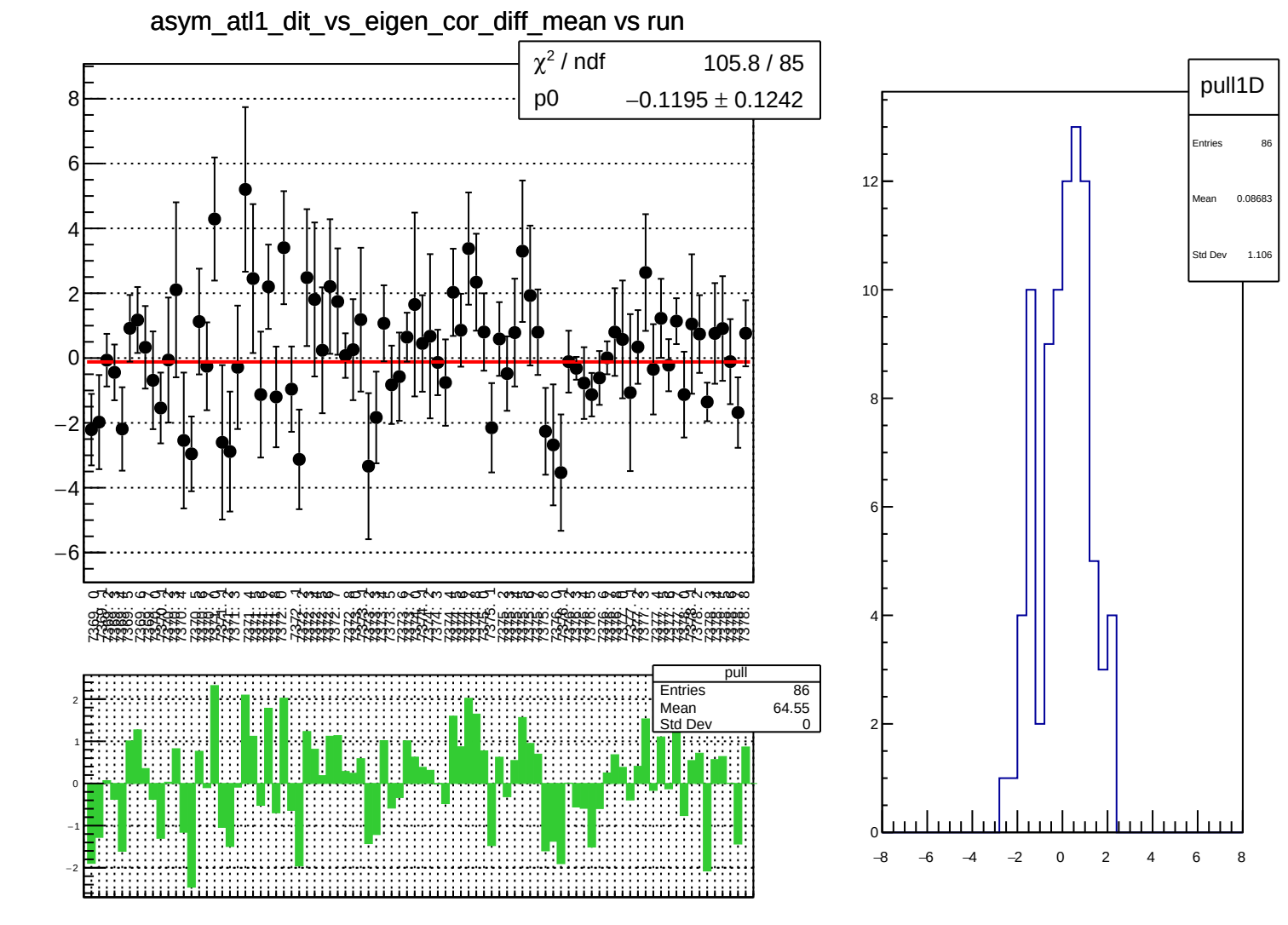

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 83.71 / 85
p0 −7.163e−15 ± 2.386e−14
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 74.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean 0.0262
Std Dev 0.9862
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

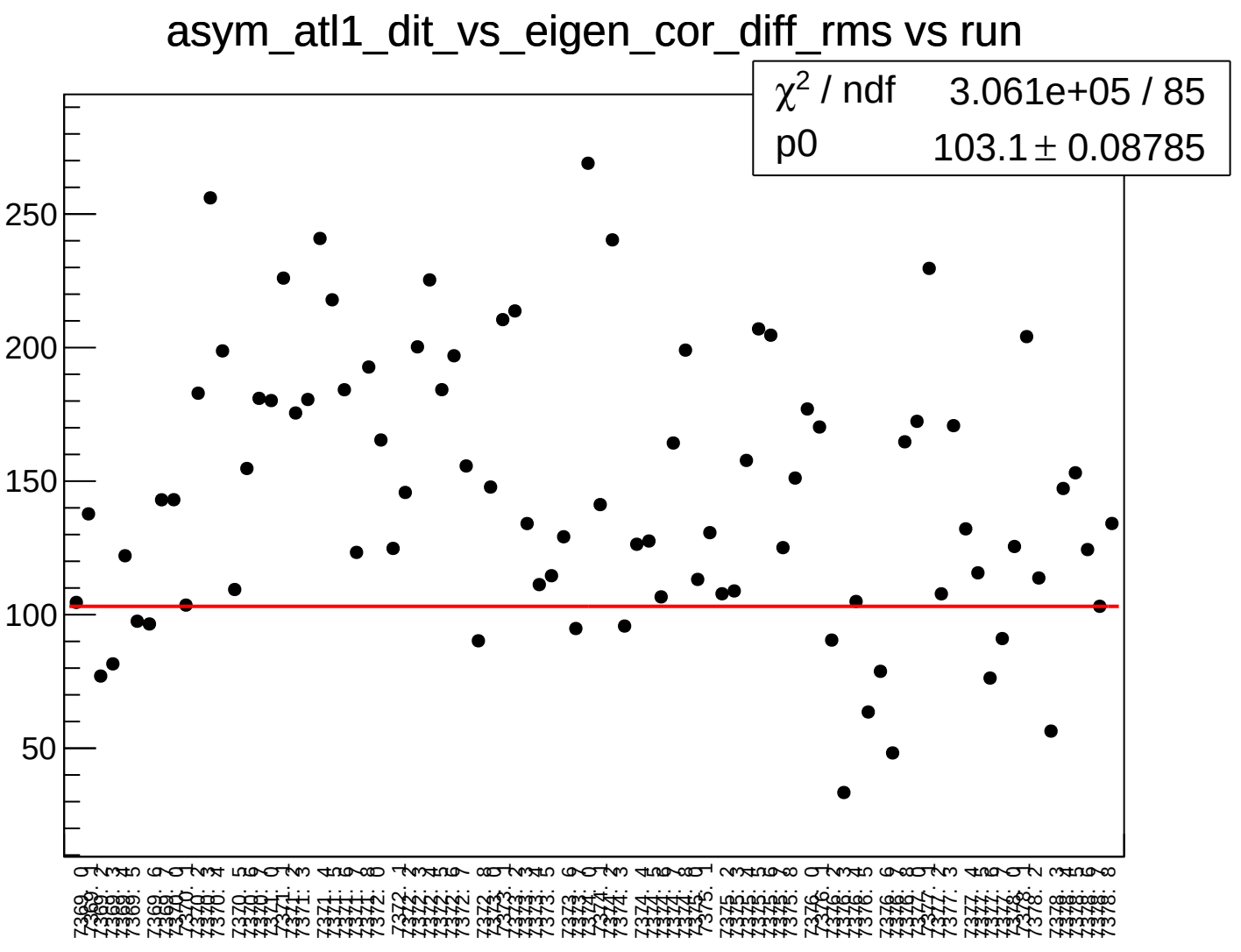

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.42e+06 / 85
p0 8.664e−12 ± 1.687e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

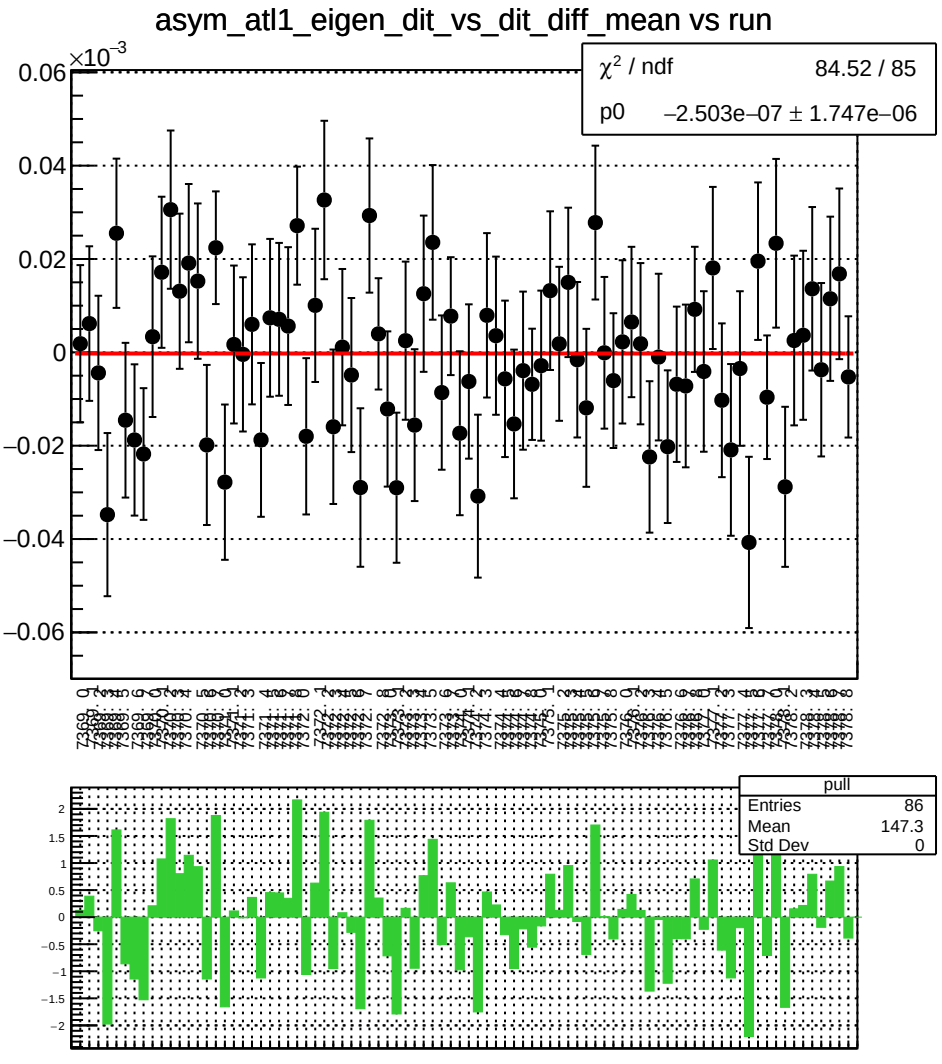

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 −0.1195 ± 0.1242
pull
Entries 86
Mean 64.55
Std Dev 0

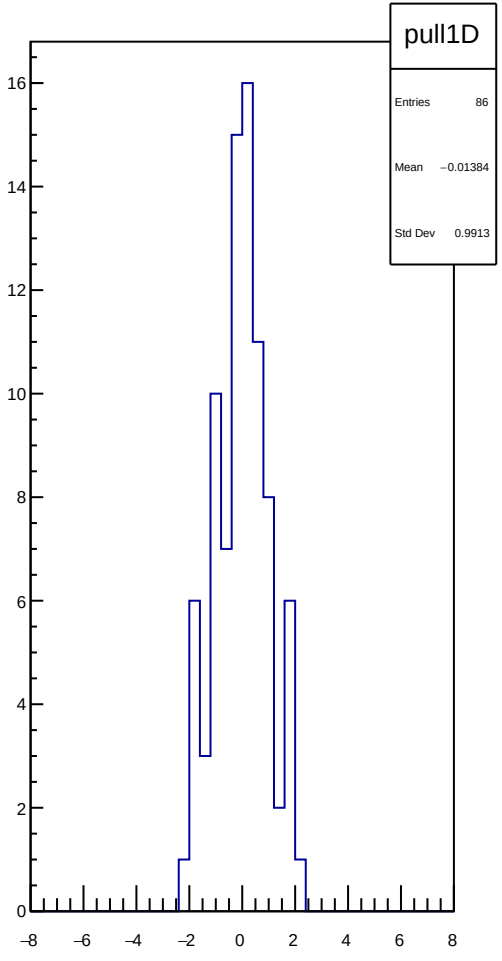

pull1D
Entries 86
Mean 0.08683
Std Dev 1.106

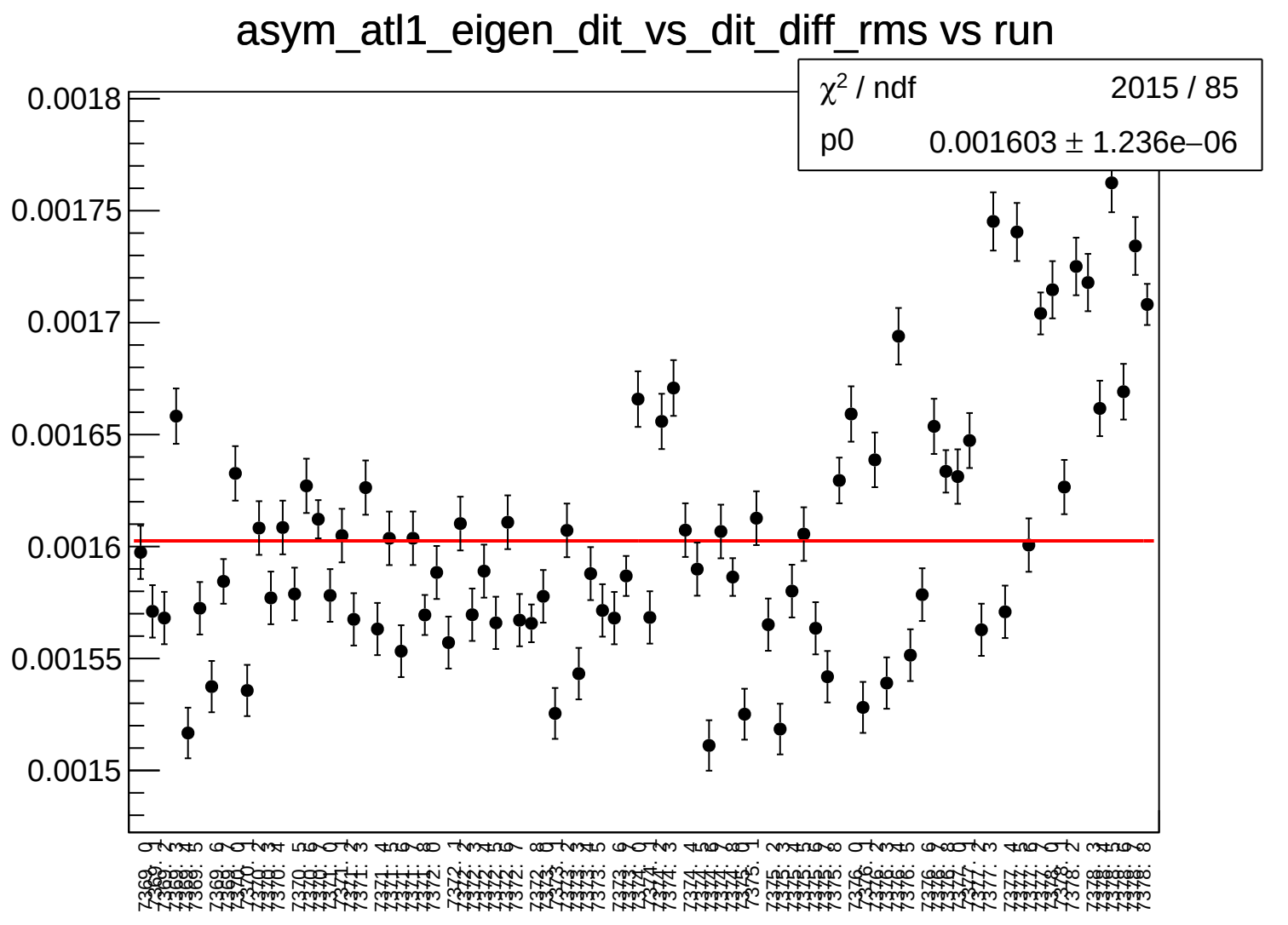

asym_atl1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.061e+05 / 85
p0 103.1 ± 0.08785
250
200
150
100
50

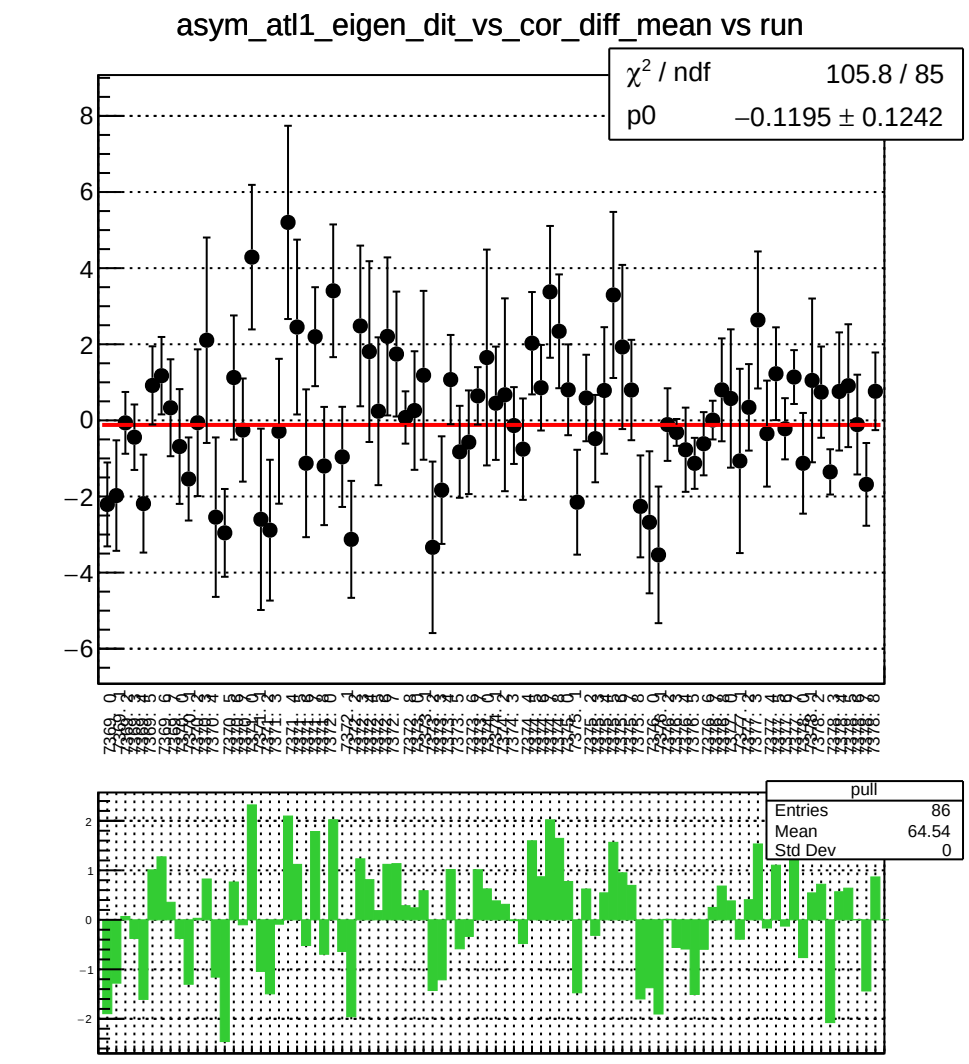

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 −0.1195 ± 0.1242
pull
Entries 86
Mean 64.55
Std Dev 0
pull1D
Entries 86
Mean 0.08683
Std Dev 1.106

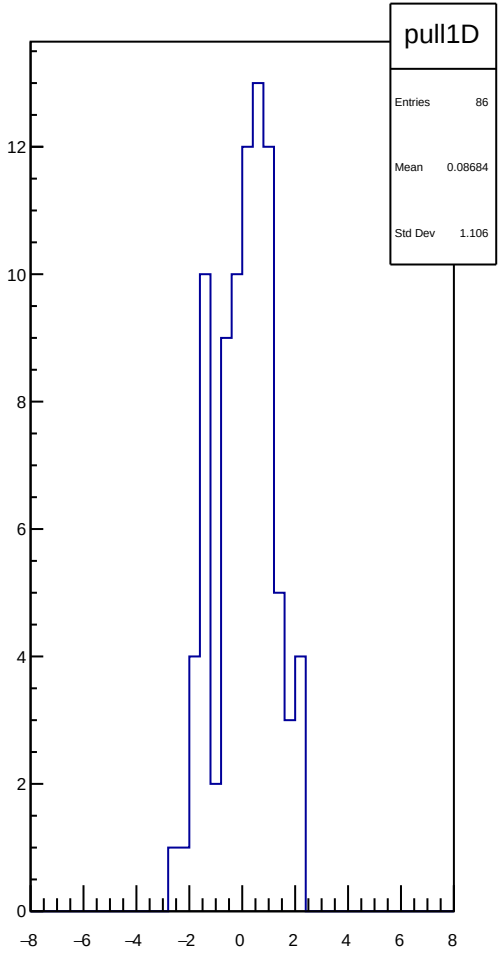

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.061e+05 / 85
p0 103.1 ± 0.08785
250
200
150
100
50

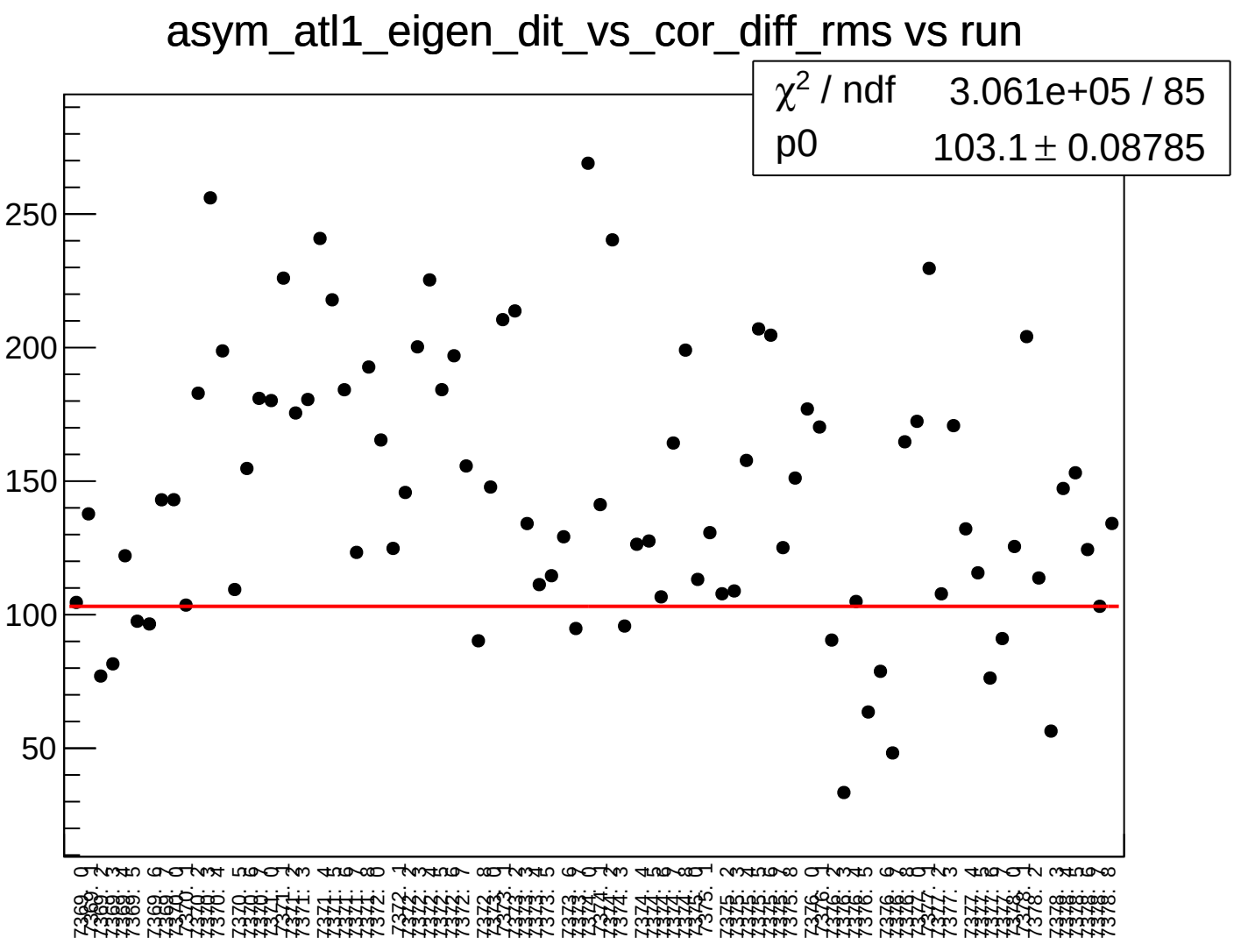

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.52 / 85
p0 −2.503e−07 ± 1.747e−06
pull
Entries 86
Mean 147.3
Std Dev 0

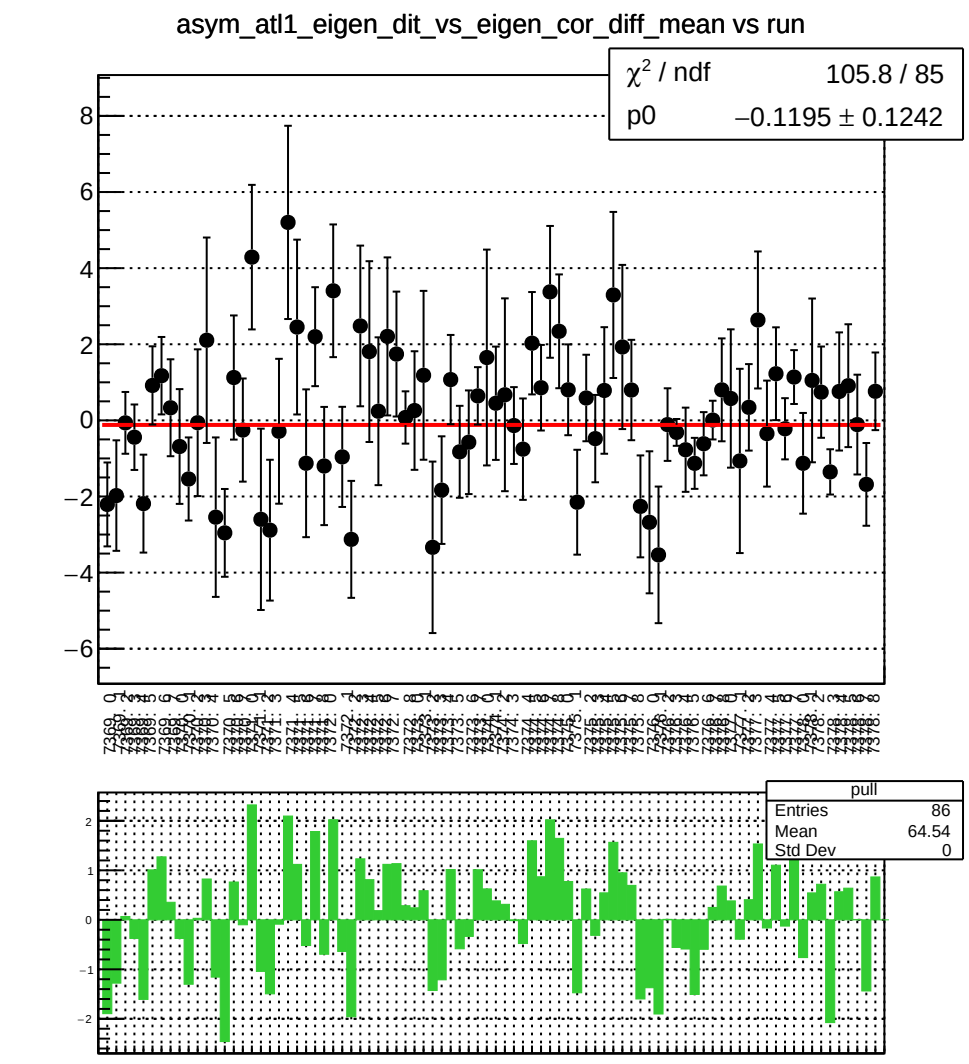

pull1D
Entries 86
Mean −0.01384
Std Dev 0.9913

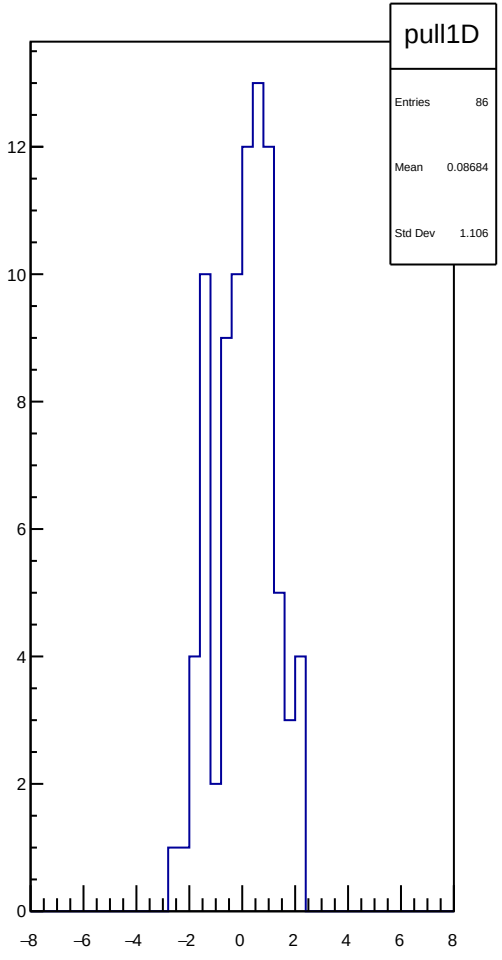

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2015 / 85
p0 0.001603 ± 1.236e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

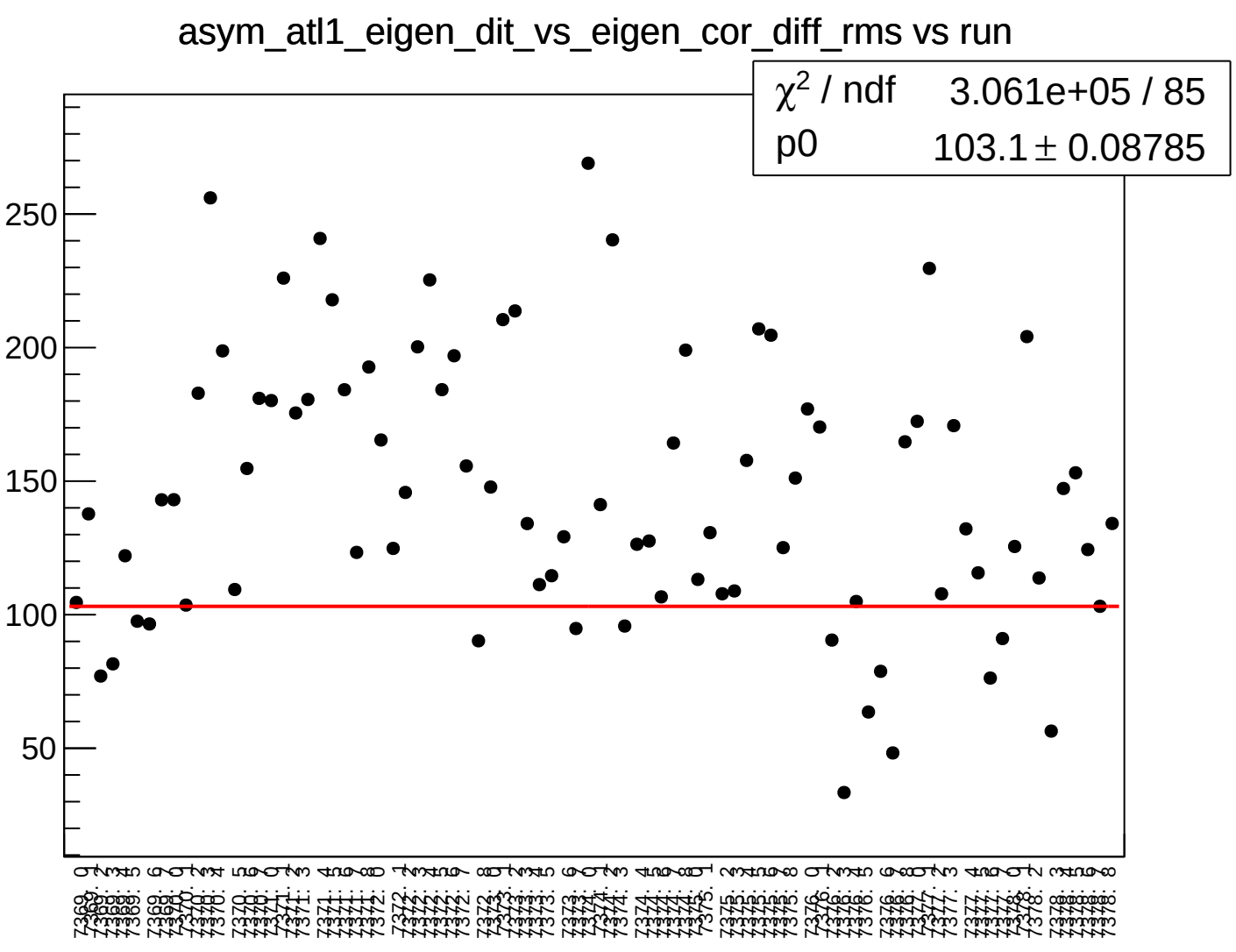

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 −0.1195 ± 0.1242
pull
Entries 86
Mean 64.54
Std Dev 0

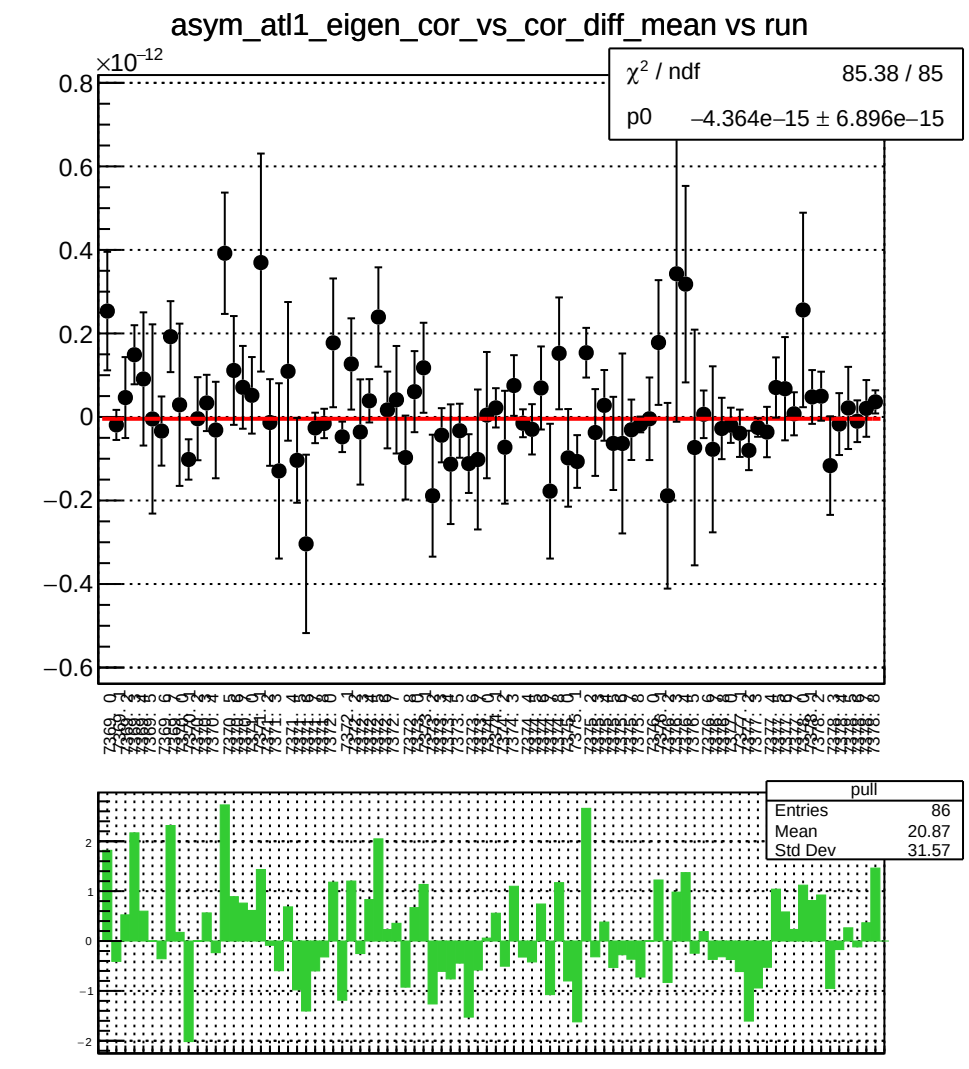

pull1D
Entries 86
Mean 0.08684
Std Dev 1.106

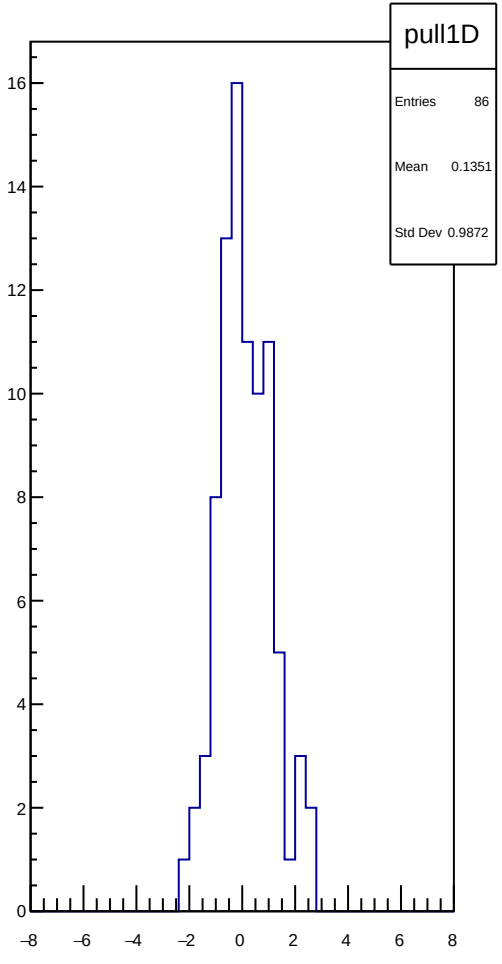

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.061e+05 / 85
p0 103.1 ± 0.08785
250
200
150
100
50

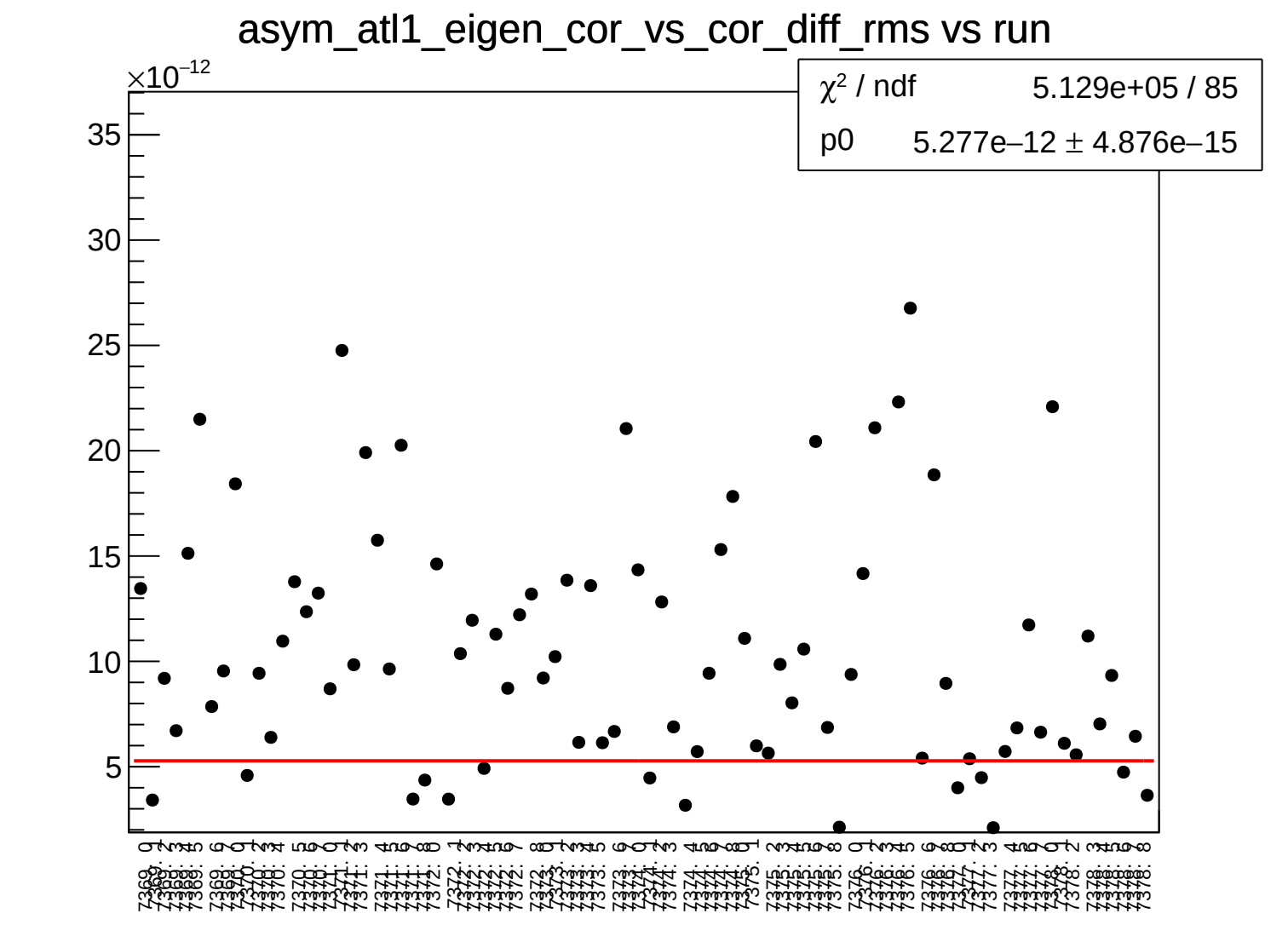

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 −0.1195 ± 0.1242
pull
Entries 86
Mean 64.54
Std Dev 0

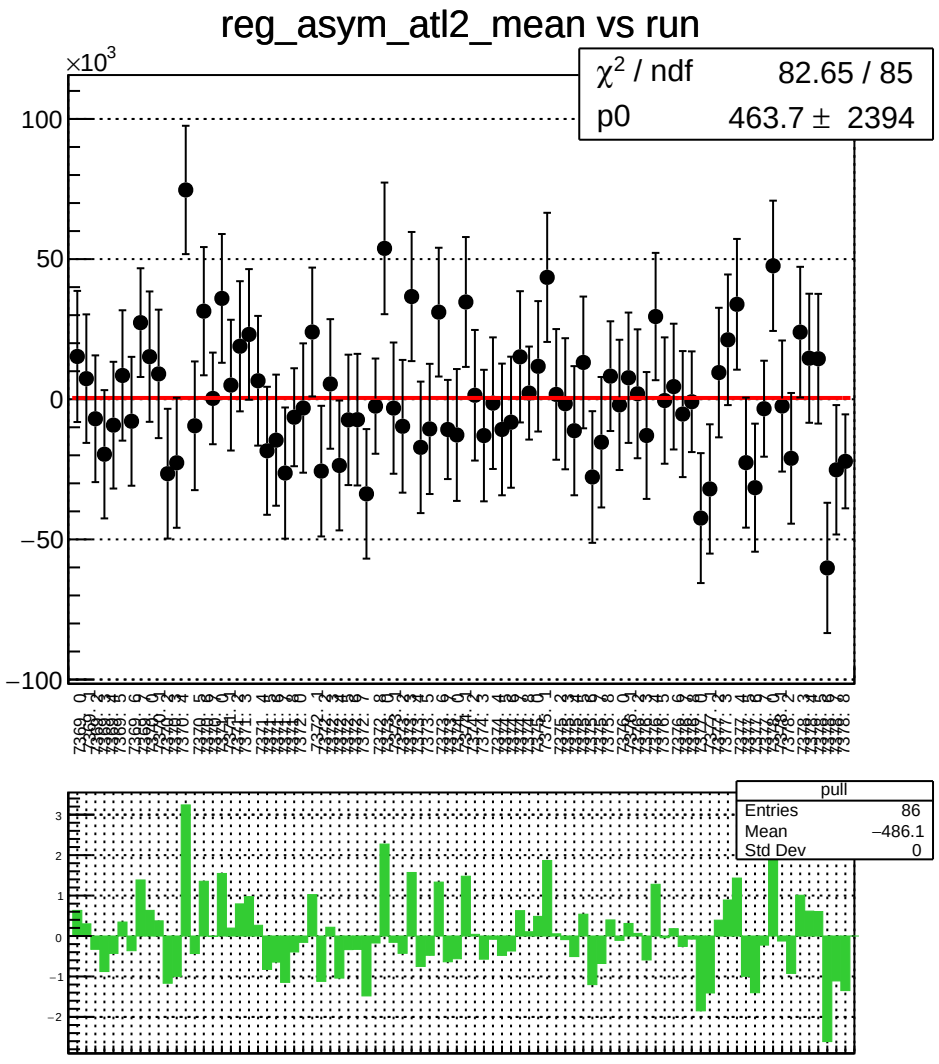

pull1D
Entries 86
Mean 0.08684
Std Dev 1.106

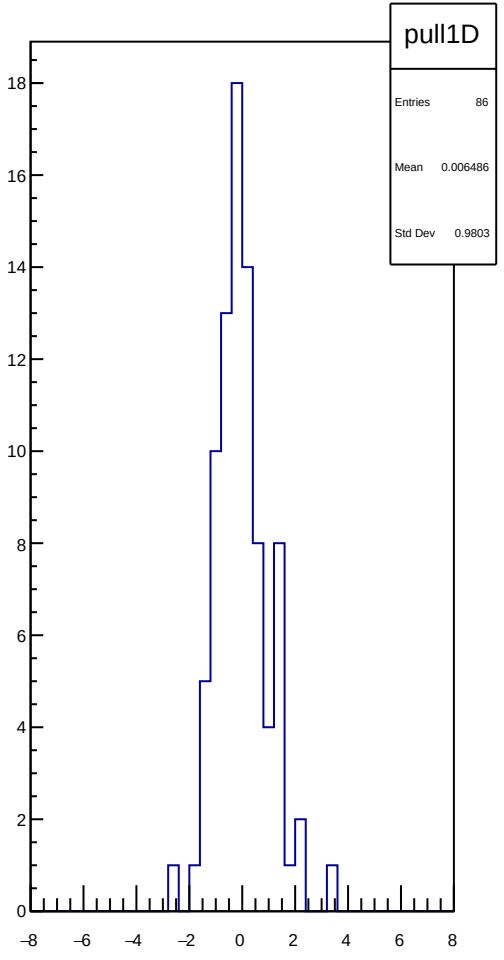

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.061e+05 / 85
p0 103.1 ± 0.08785
250
200
150
100
50

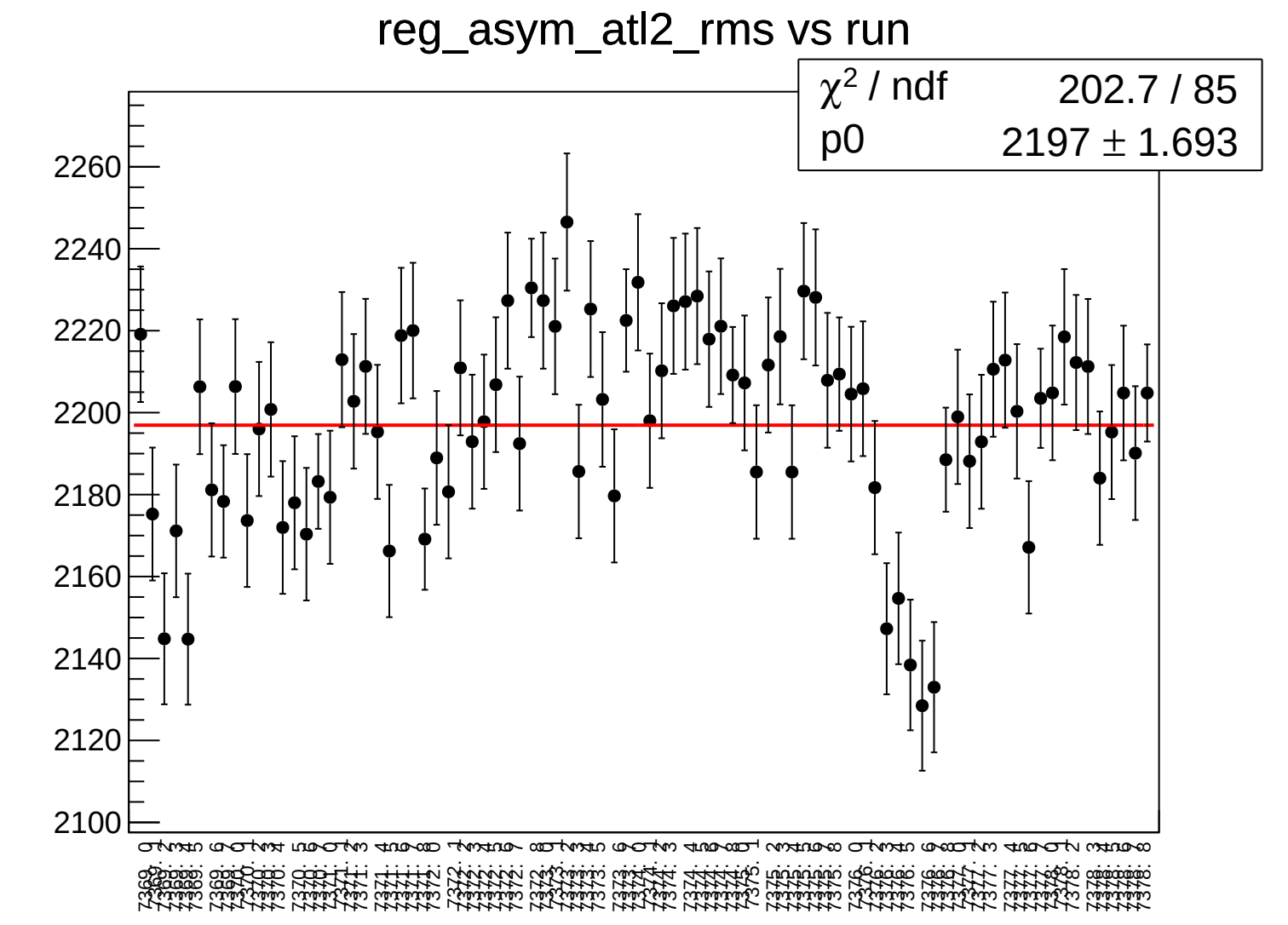

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.38 / 85
p0 −4.364e−15 ± 6.896e−15
pull
Entries 86
Mean 20.87
Std Dev 31.57

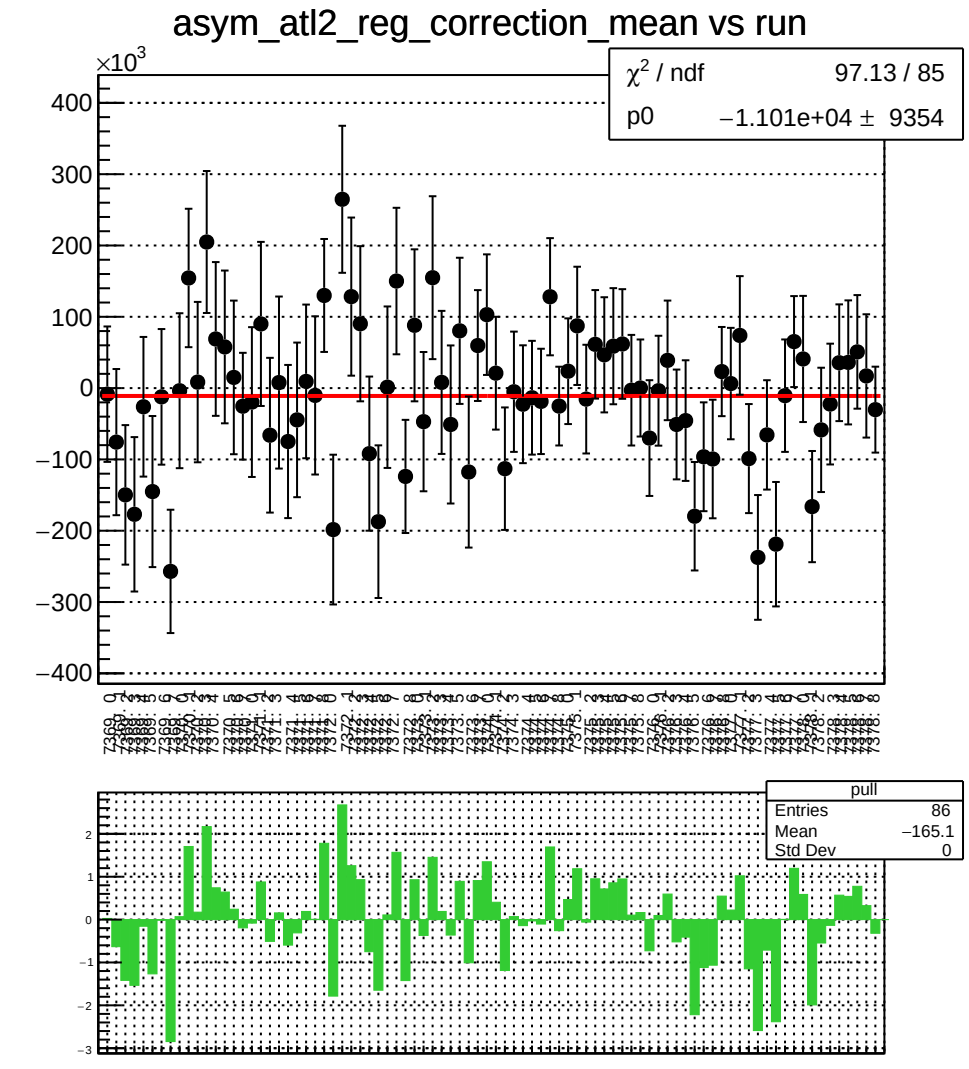

pull1D
Entries 86
Mean 0.1351
Std Dev 0.9872

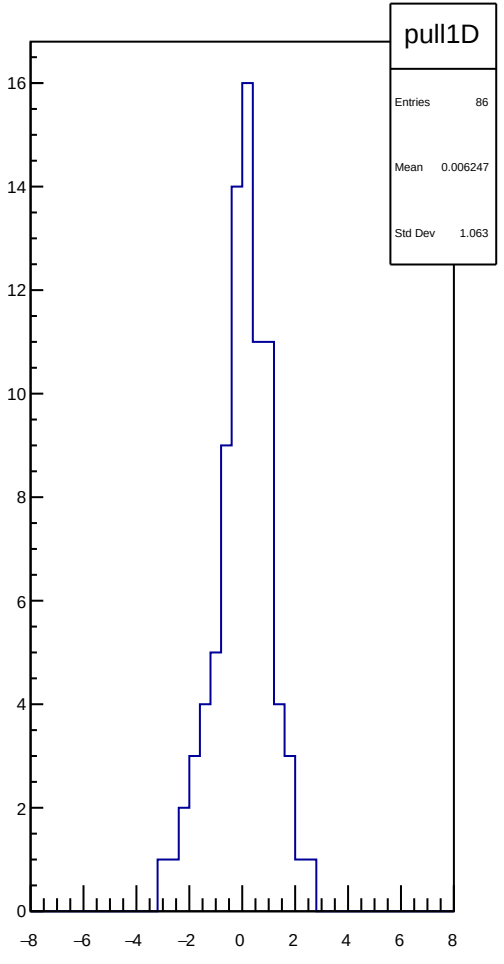

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.129e+05 / 85
p0 5.277e−12 ± 4.876e−15
35
30
25
20
15
10
5

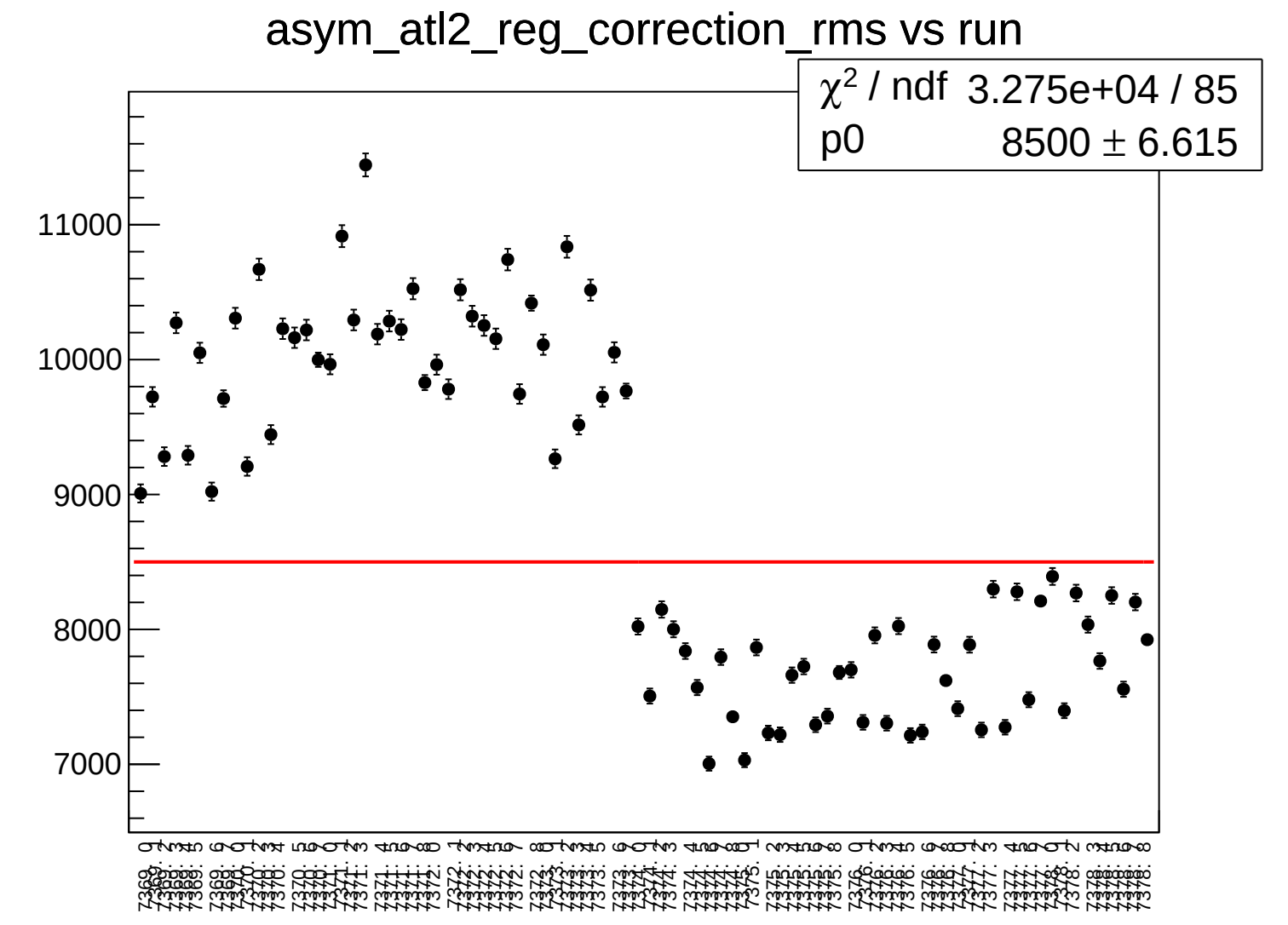

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 82.65 / 85
p0 463.7 ± 2394
pull
Entries 86
Mean −486.1
Std Dev 0

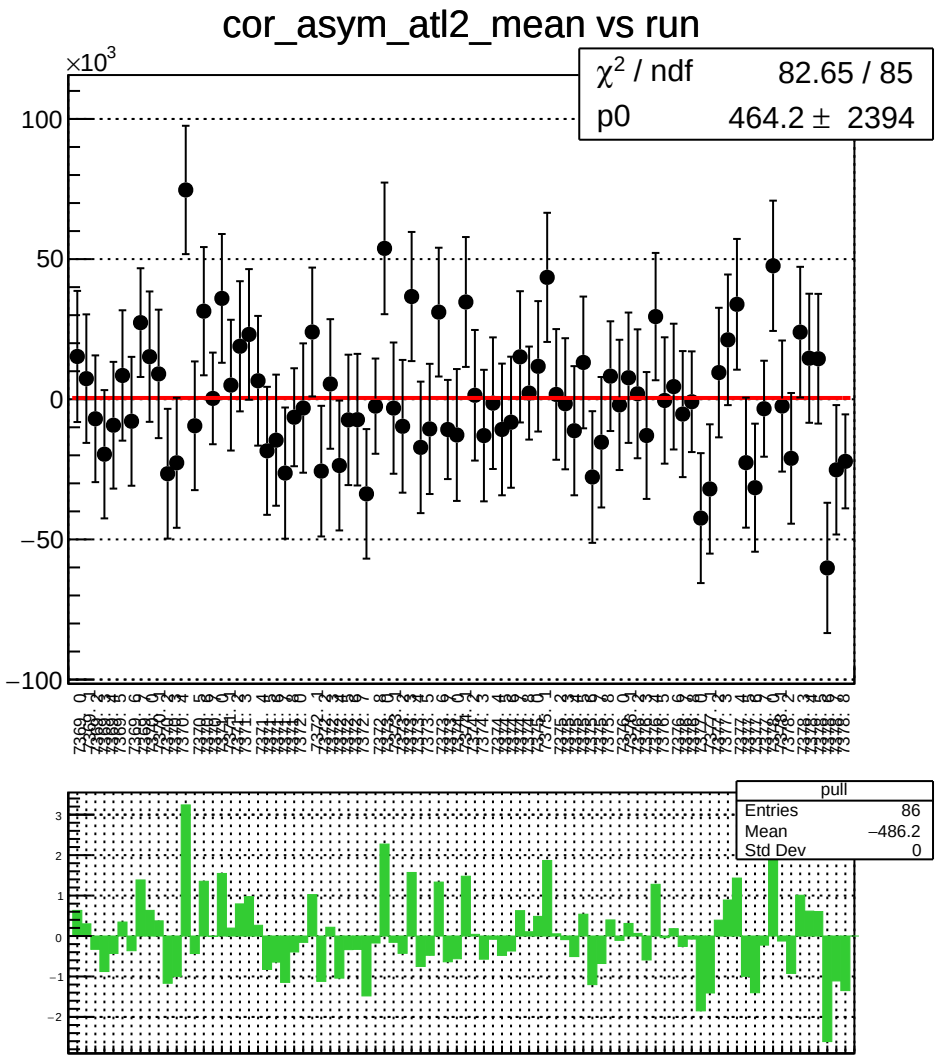

pull1D
Entries 86
Mean 0.006486
Std Dev 0.9803

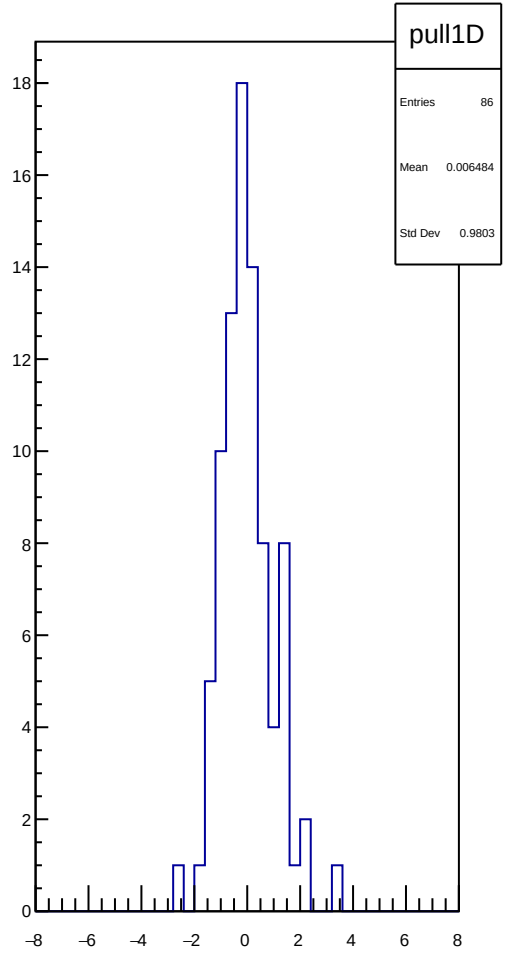

reg_asym_atl2_rms vs run
χ² / ndf 202.7 / 85
p0 2197 ± 1.693
2260
2240
2220
2200
2180
2160
2140
2120
2100

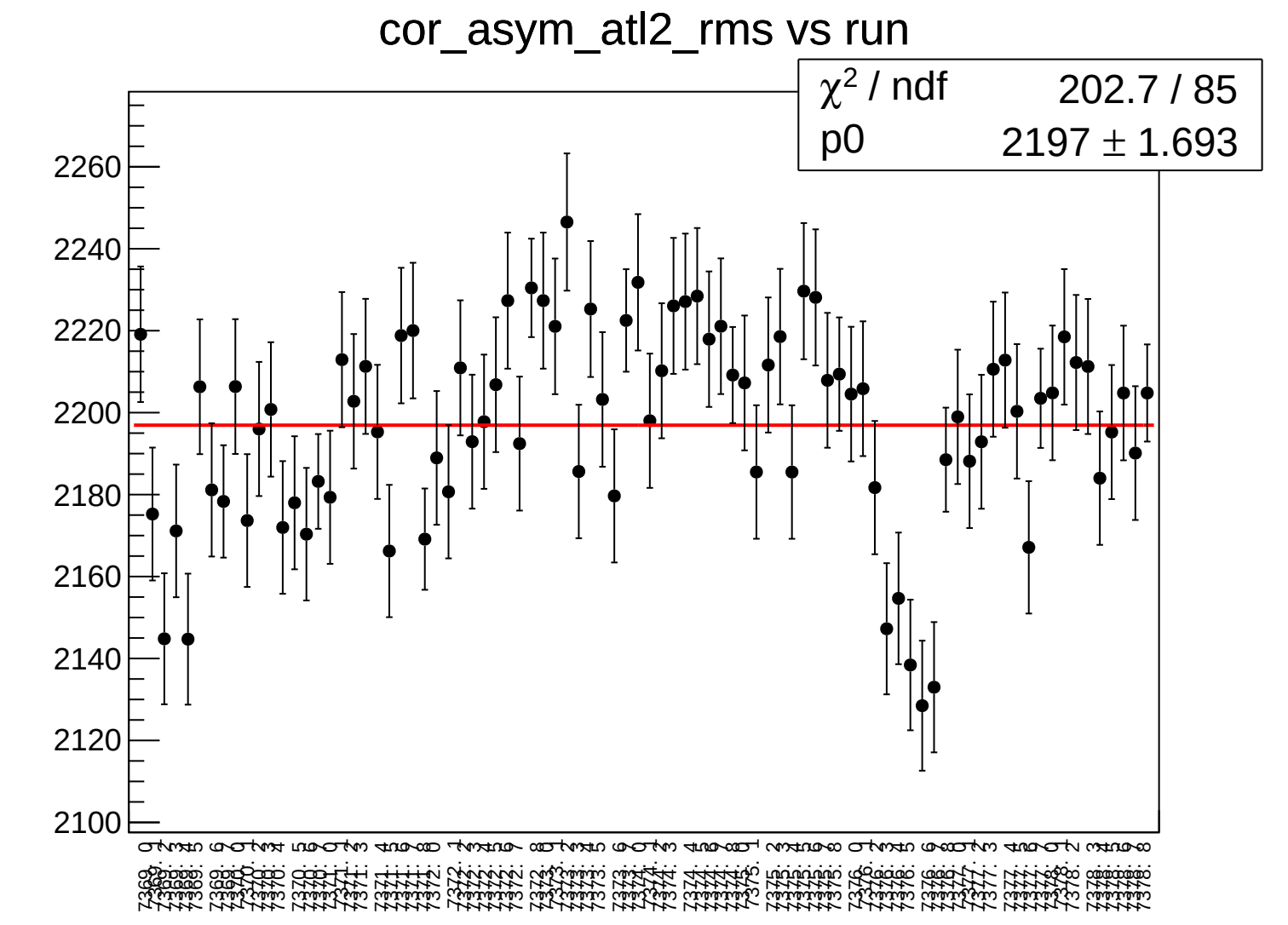

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 97.13 / 85
p0 −1.101e+04 ± 9354
pull
Entries 86
Mean −165.1
Std Dev 0

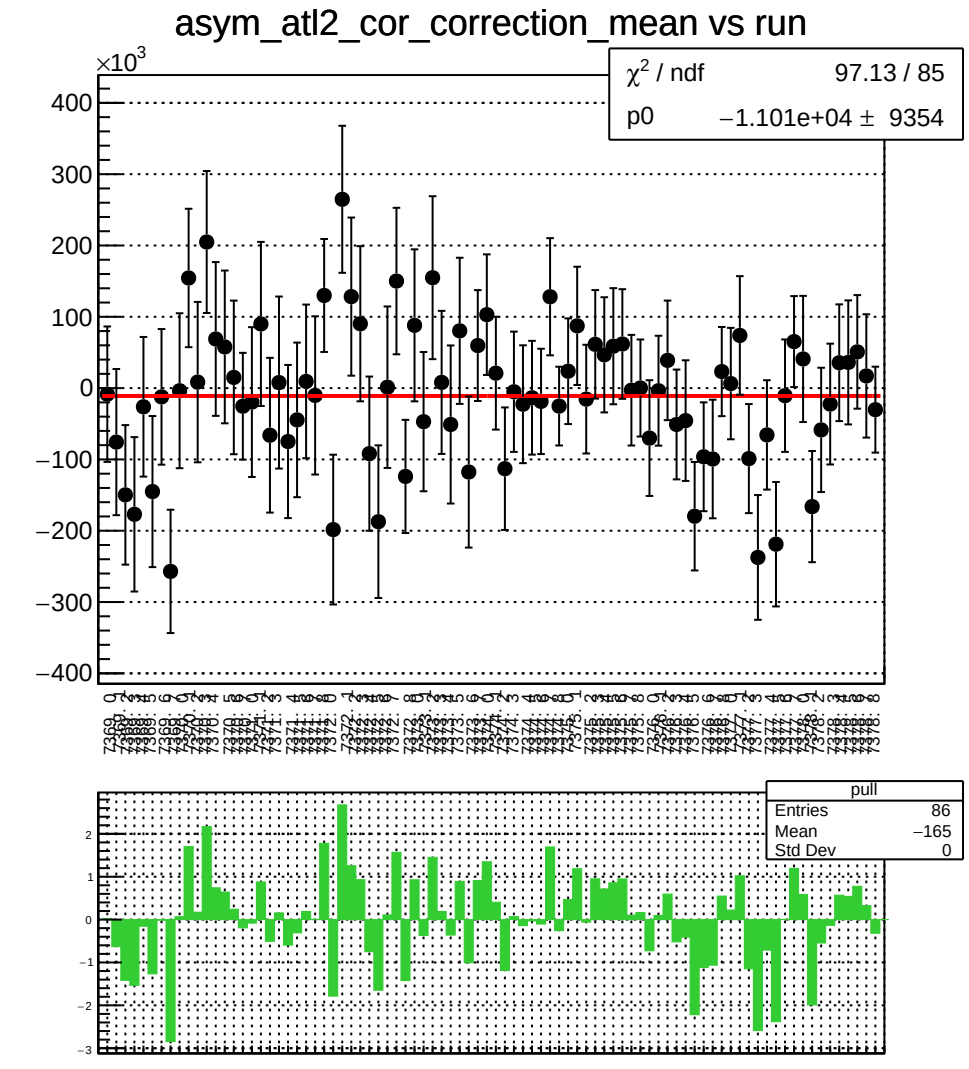

pull1D
Entries 86
Mean 0.006247
Std Dev 1.063

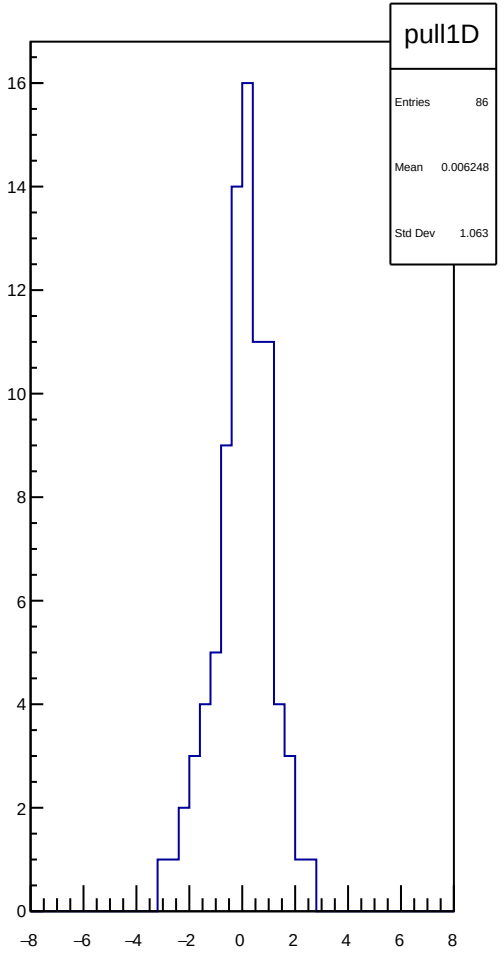

asym_atl2_reg_correction_rms vs run
χ² / ndf 3.275e+04 / 85
p0 8500 ± 6.615
11000
10000
9000
8000
7000

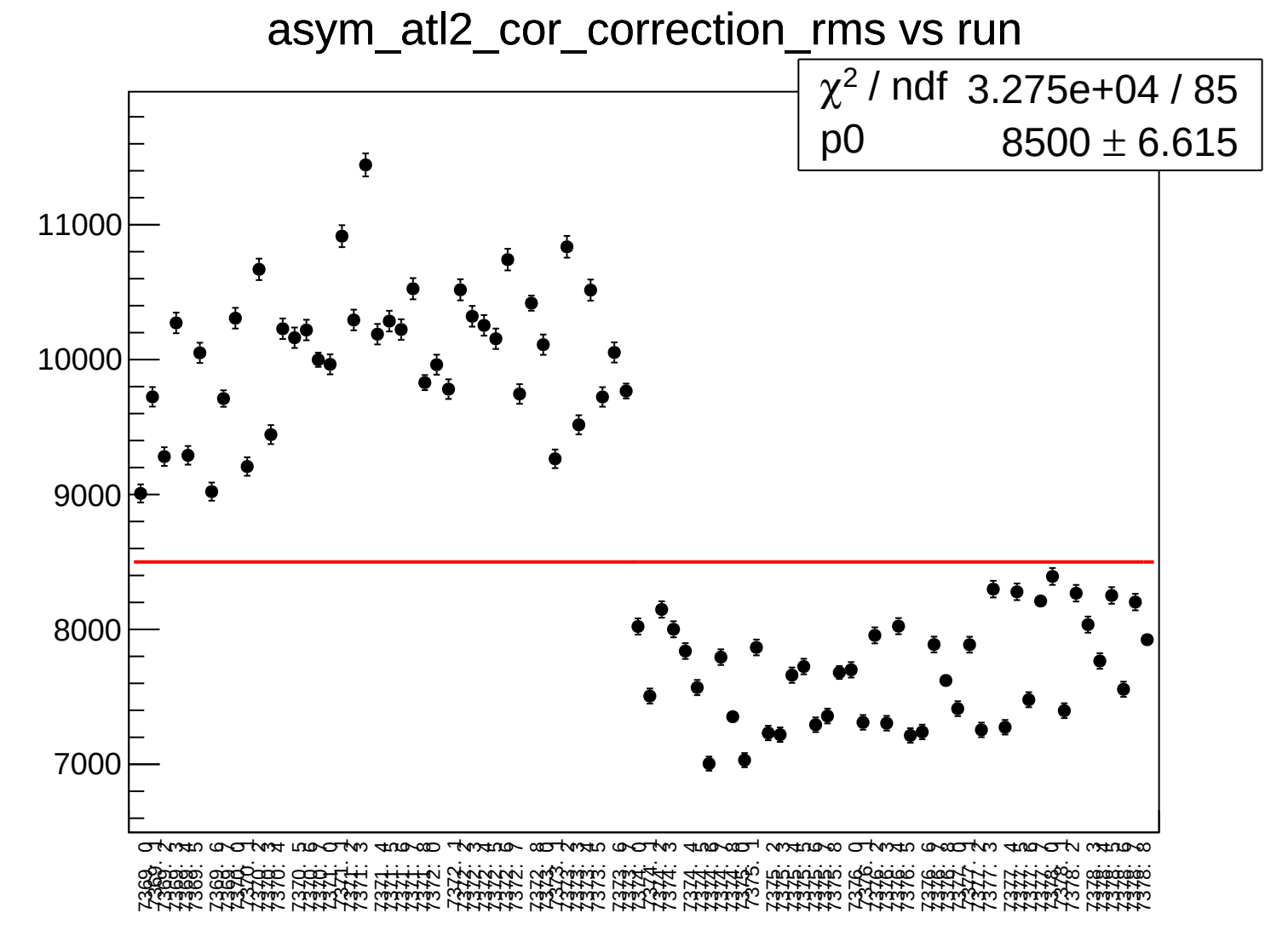

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 82.65 / 85
p0 464.2 ± 2394
100
50
0
−50
−100
pull
Entries 86
Mean −486.2
Std Dev 0
3
2
1
0
−1
−2

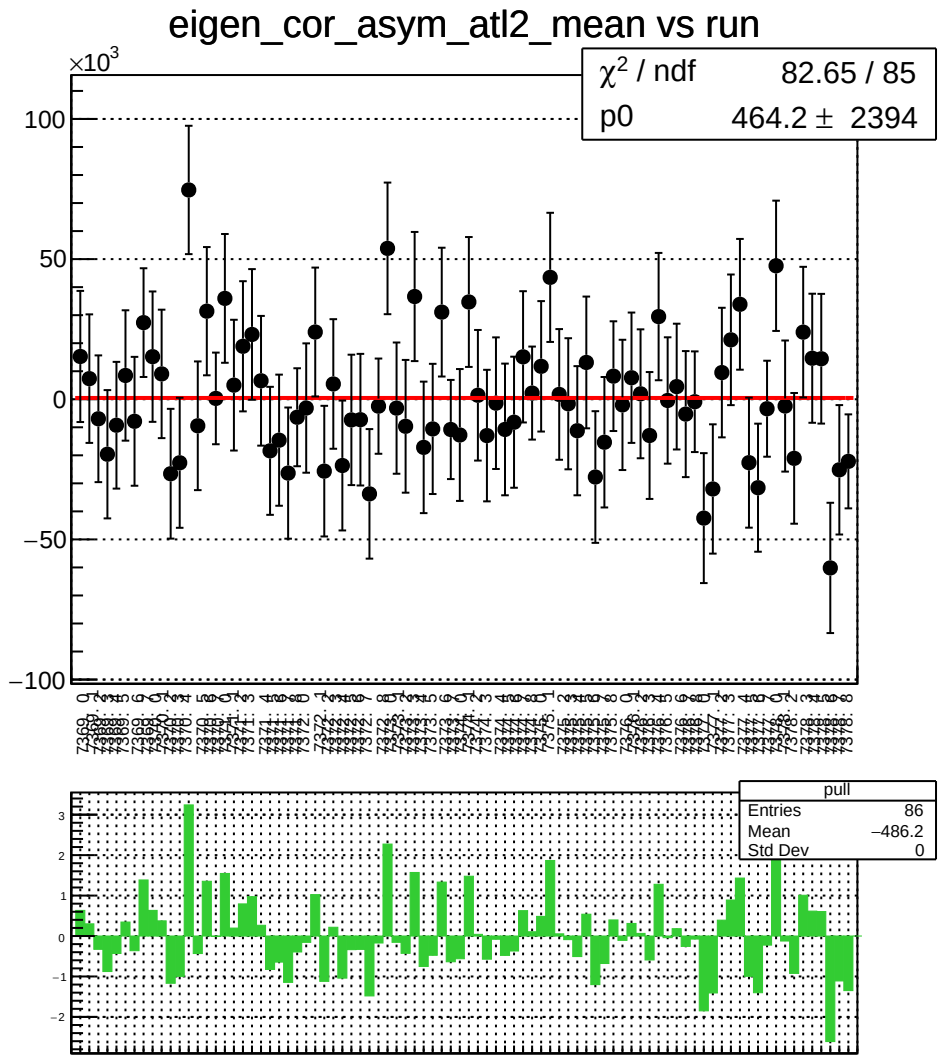

pull1D
Entries 86
Mean 0.006484
Std Dev 0.9803
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

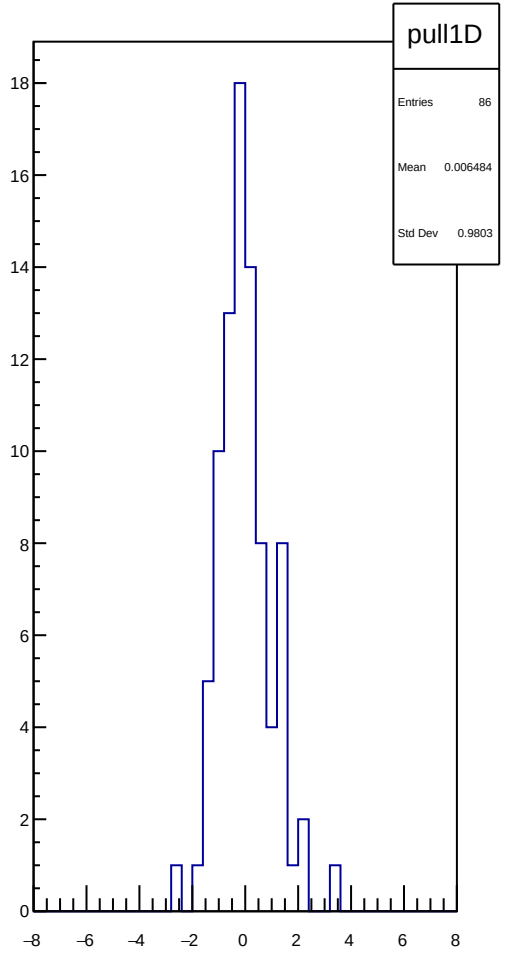

cor_asym_atl2_rms vs run
χ² / ndf 202.7 / 85
p0 2197 ± 1.693
2260
2240
2220
2200
2180
2160
2140
2120
2100

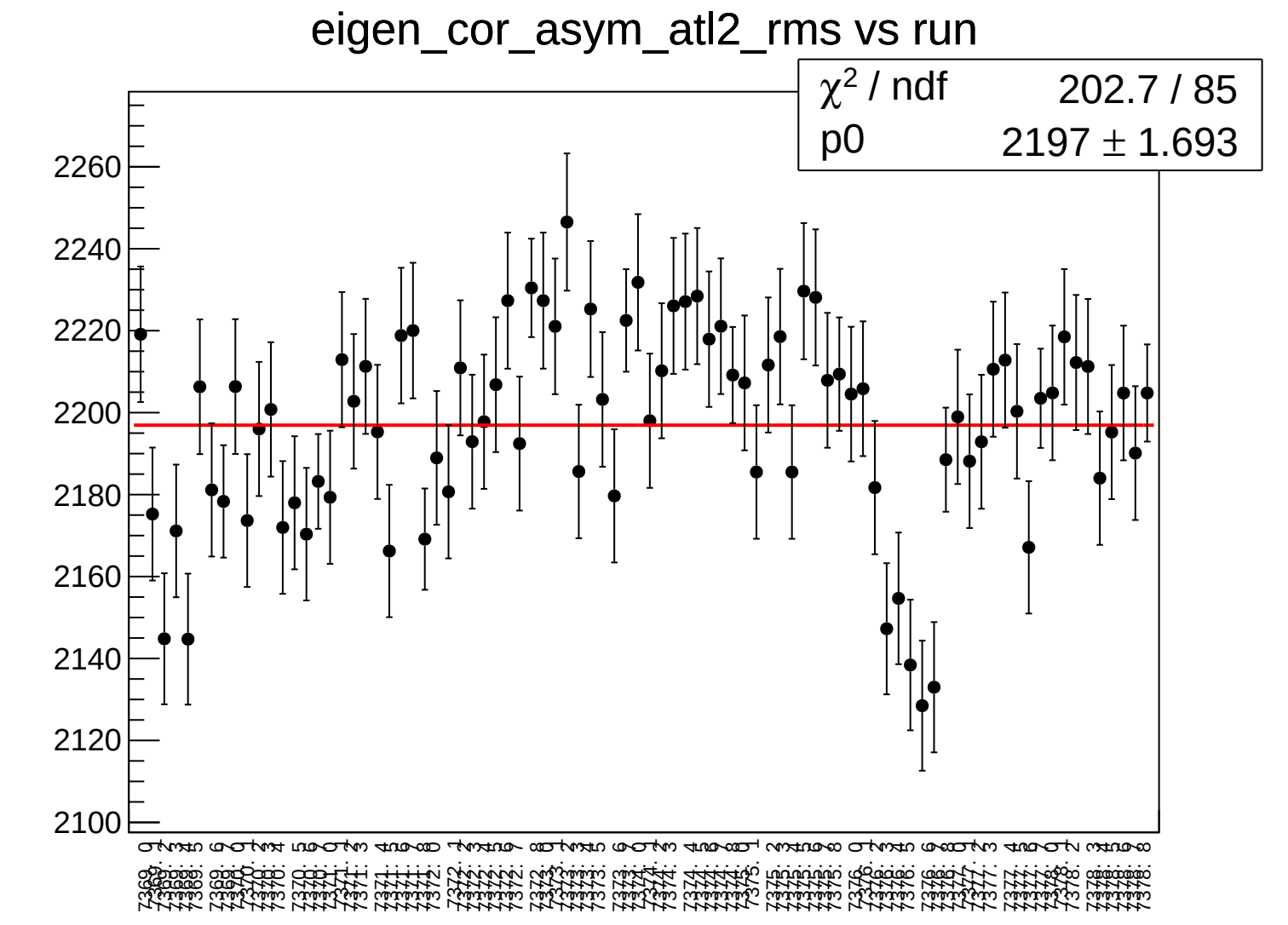

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 97.13 / 85
p0 −1.101e+04 ± 9354
pull
Entries 86
Mean −165
Std Dev 0

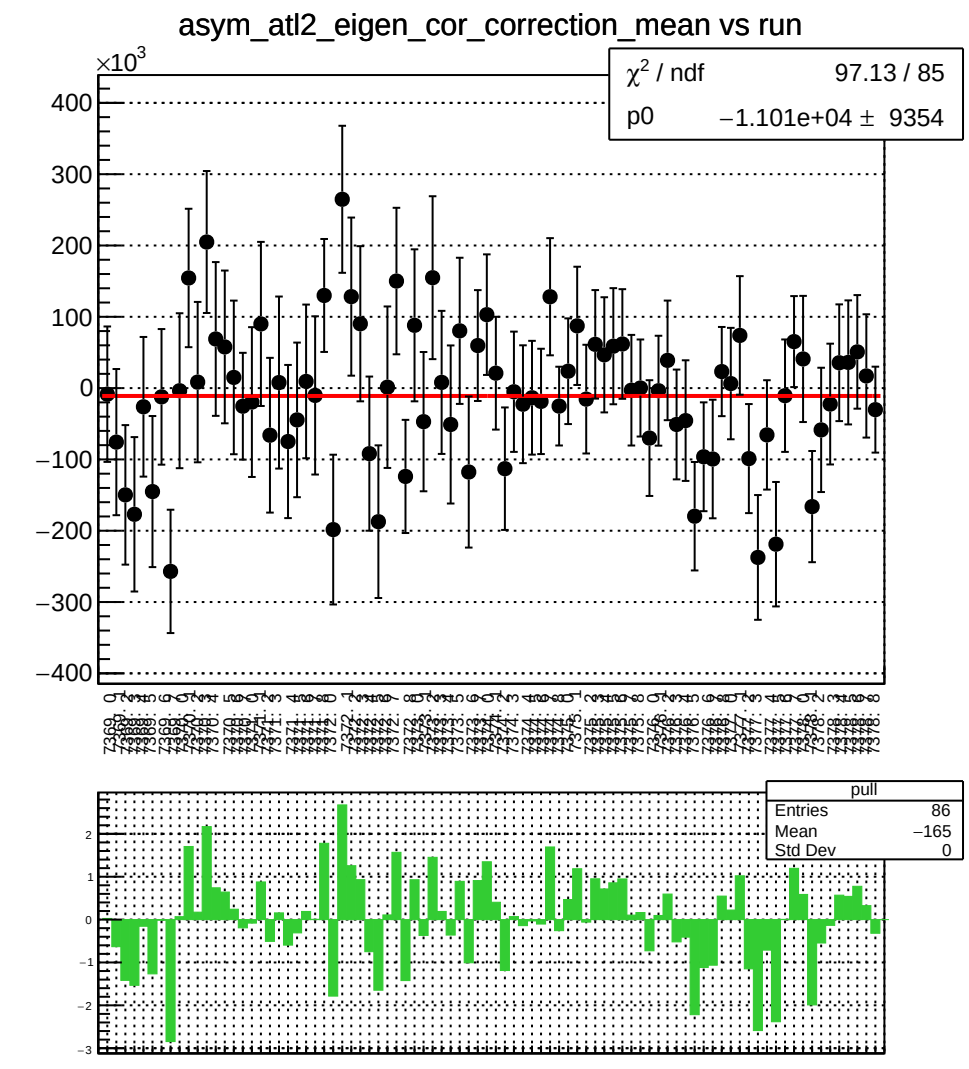

pull1D
Entries 86
Mean 0.006248
Std Dev 1.063

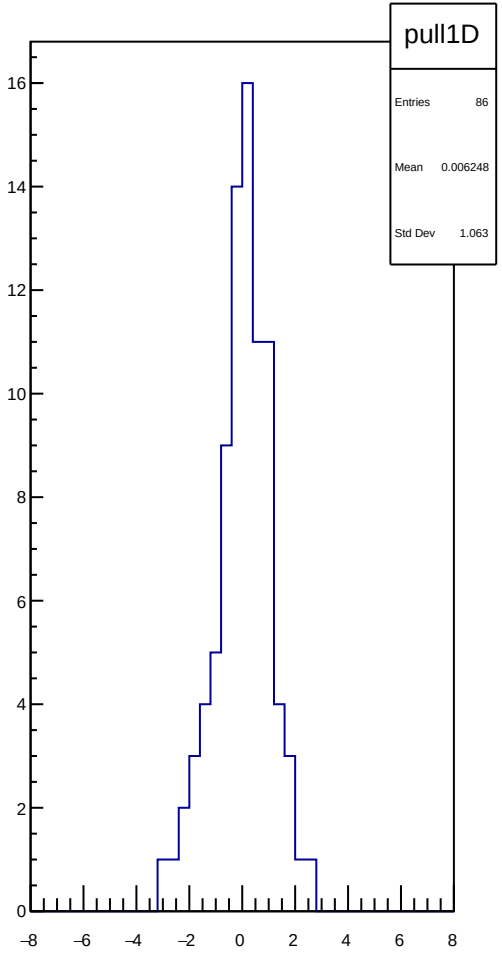

asym_atl2_cor_correction_rms vs run
χ² / ndf 3.275e+04 / 85
p0 8500 ± 6.615
11000
10000
9000
8000
7000

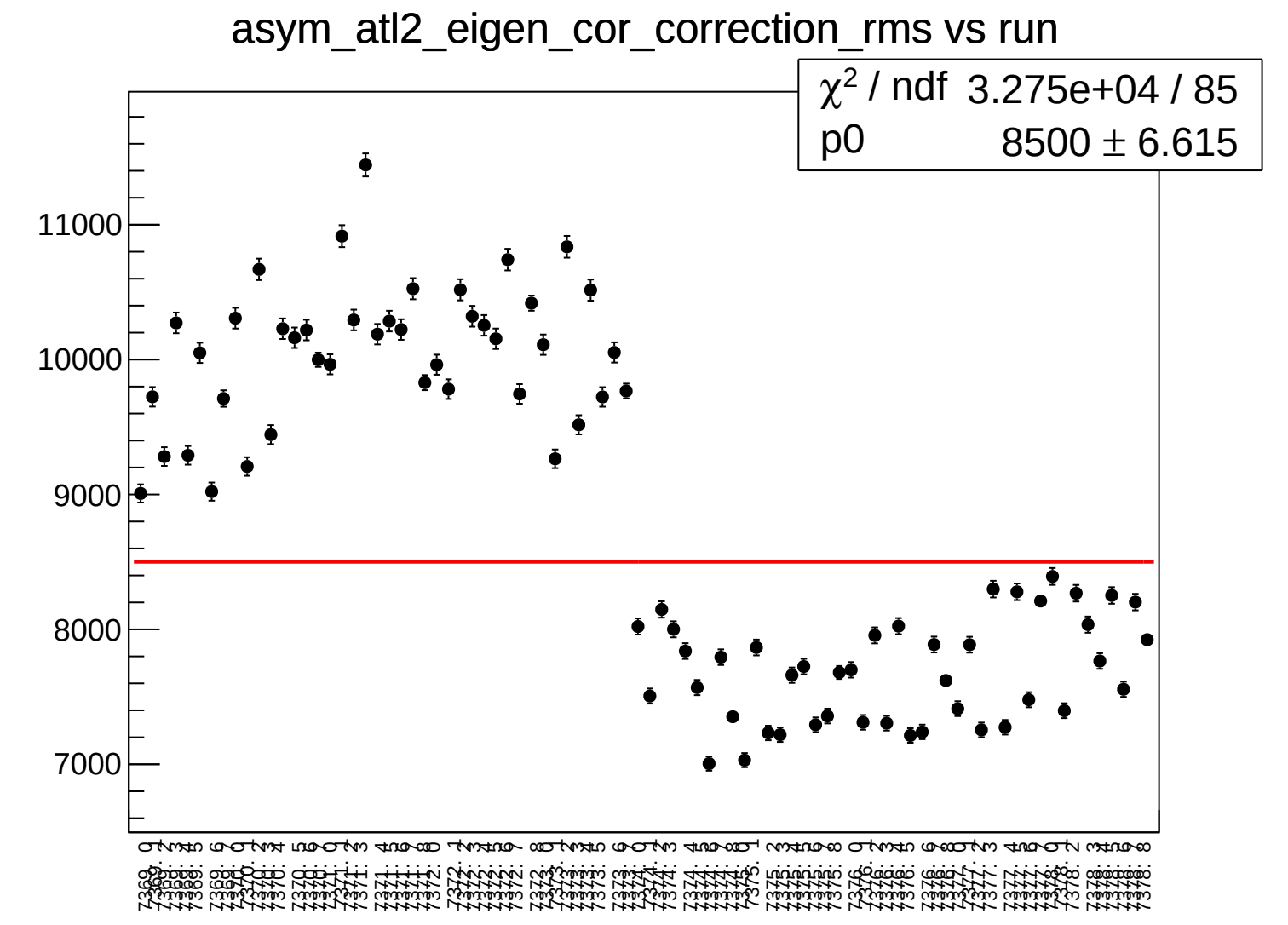

eigen_cor_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 82.65 / 85
p0 464.2 ± 2394
pull
Entries 86
Mean −486.2
Std Dev 0
3
2
1
0
−1
−2

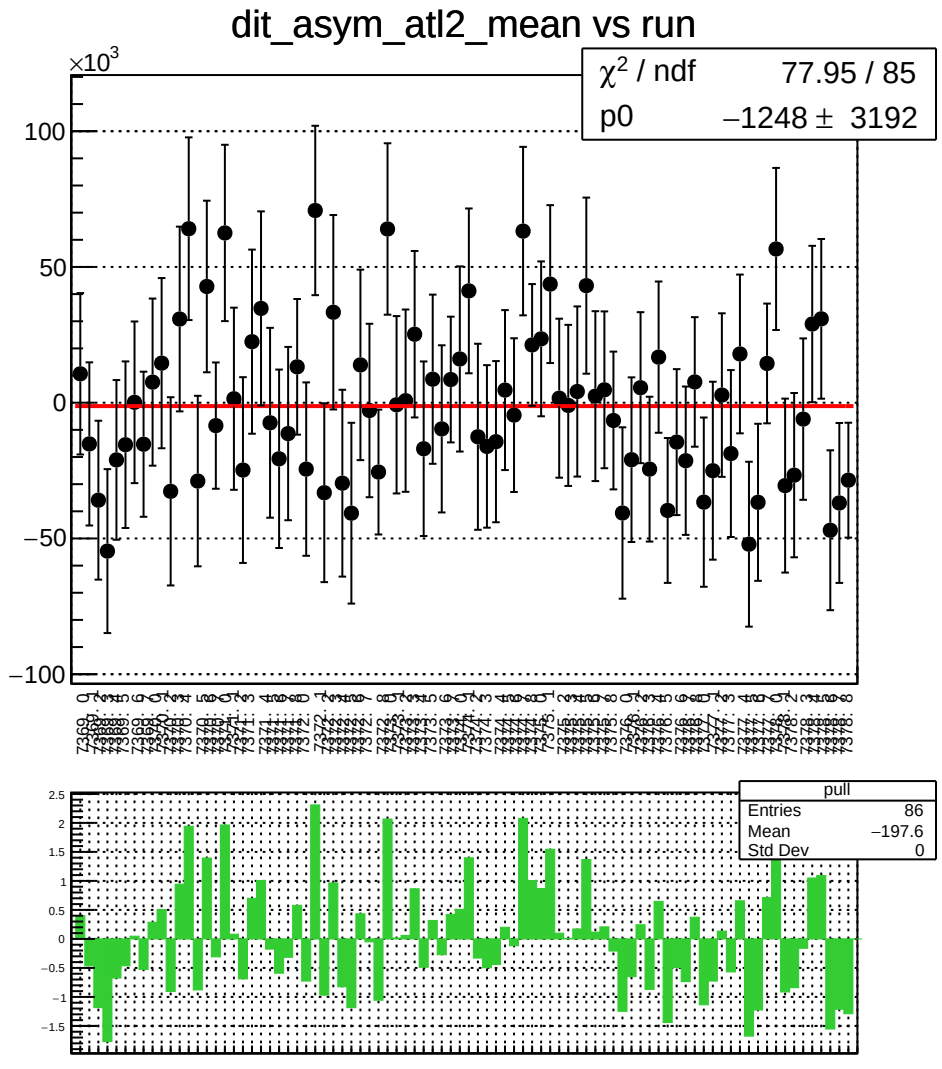

pull1D
Entries 86
Mean 0.006484
Std Dev 0.9803
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

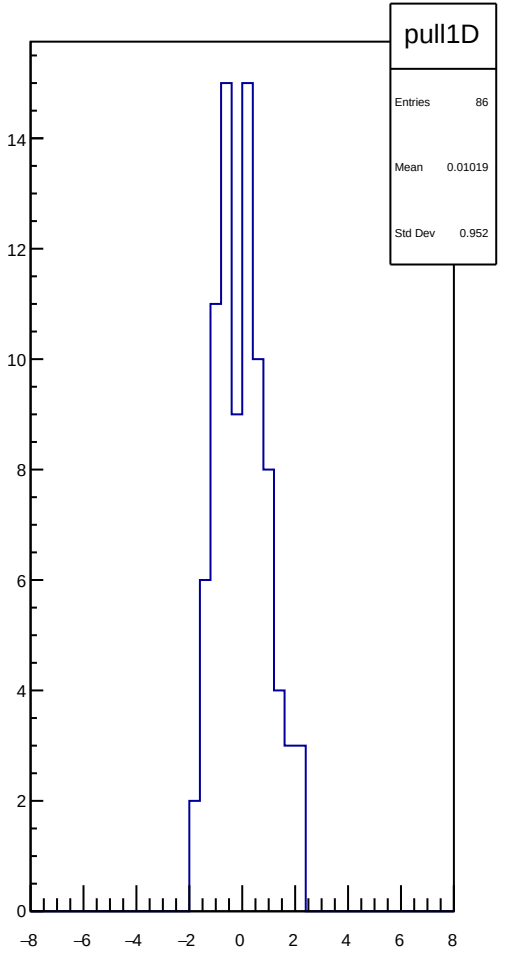

eigen_cor_asym_atl2_rms vs run
χ² / ndf 202.7 / 85
p0 2197 ± 1.693
2260
2240
2220
2200
2180
2160
2140
2120
2100

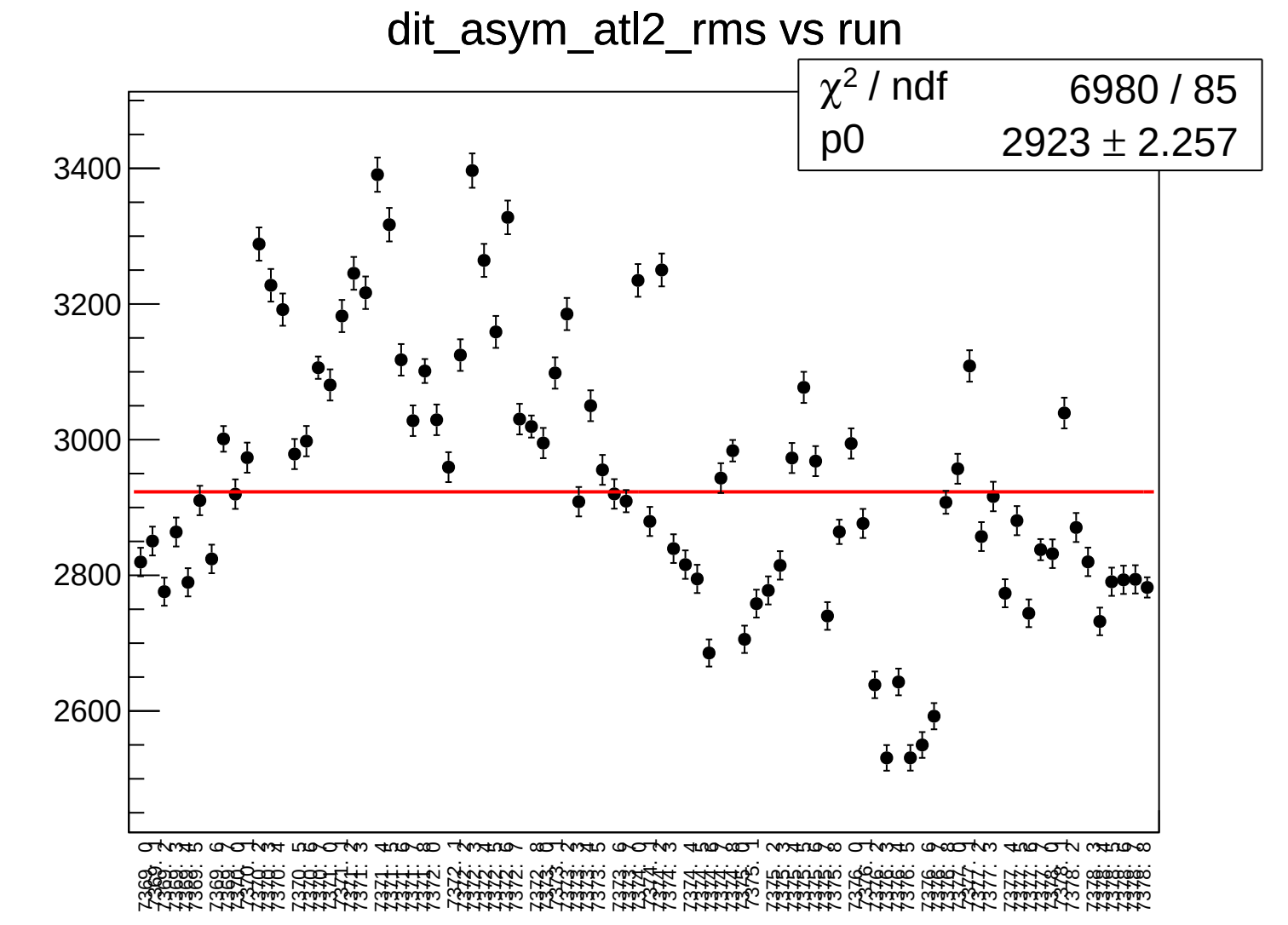

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.13 / 85
p0 −1.101e+04 ± 9354
pull
Entries 86
Mean −165
Std Dev 0

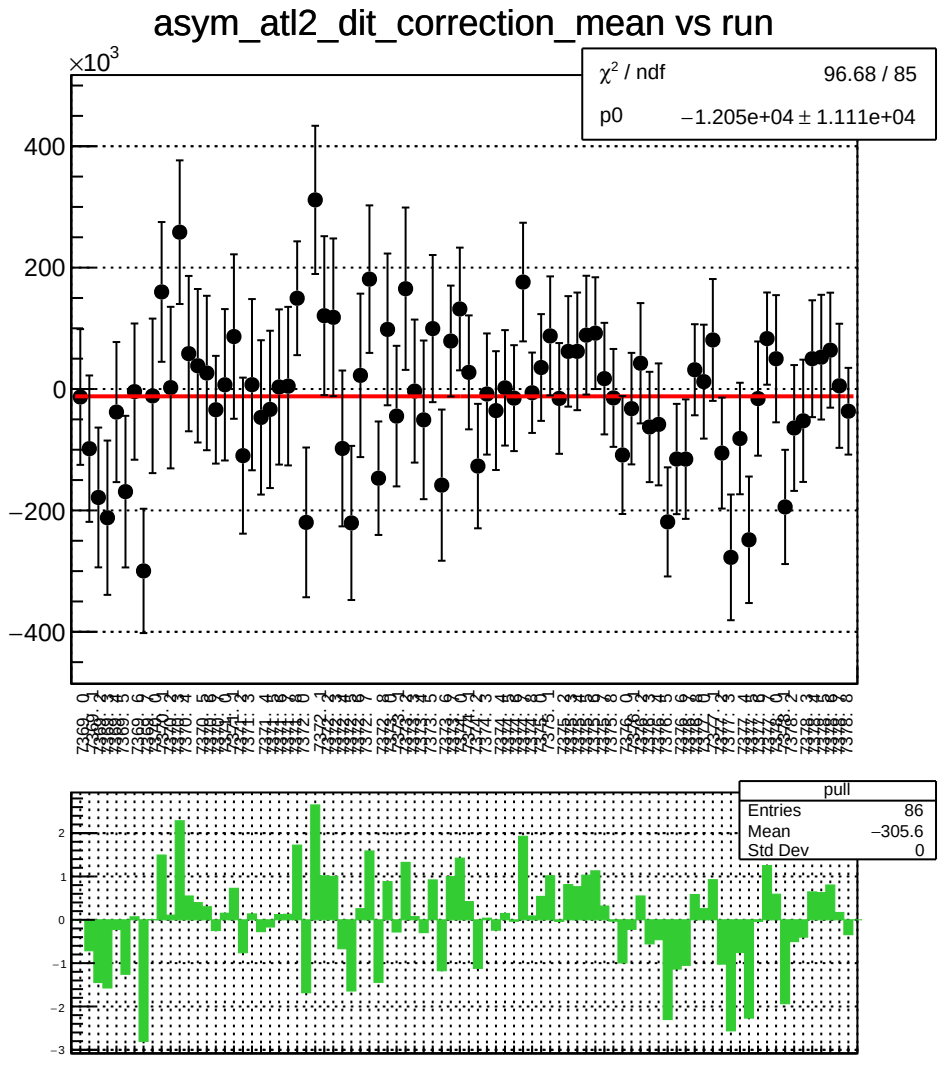

pull1D
Entries 86
Mean 0.006248
Std Dev 1.063

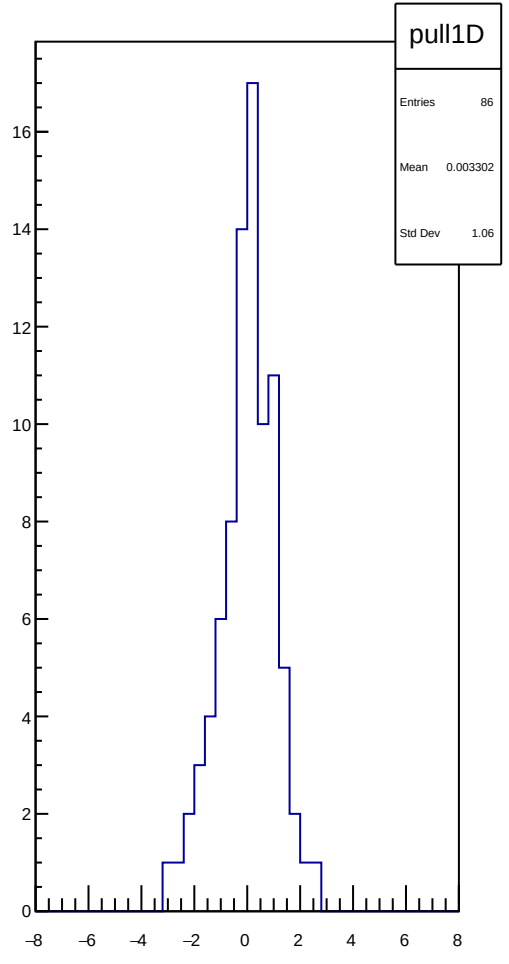

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 3.275e+04 / 85
p0 8500 ± 6.615
11000
10000
9000
8000
7000

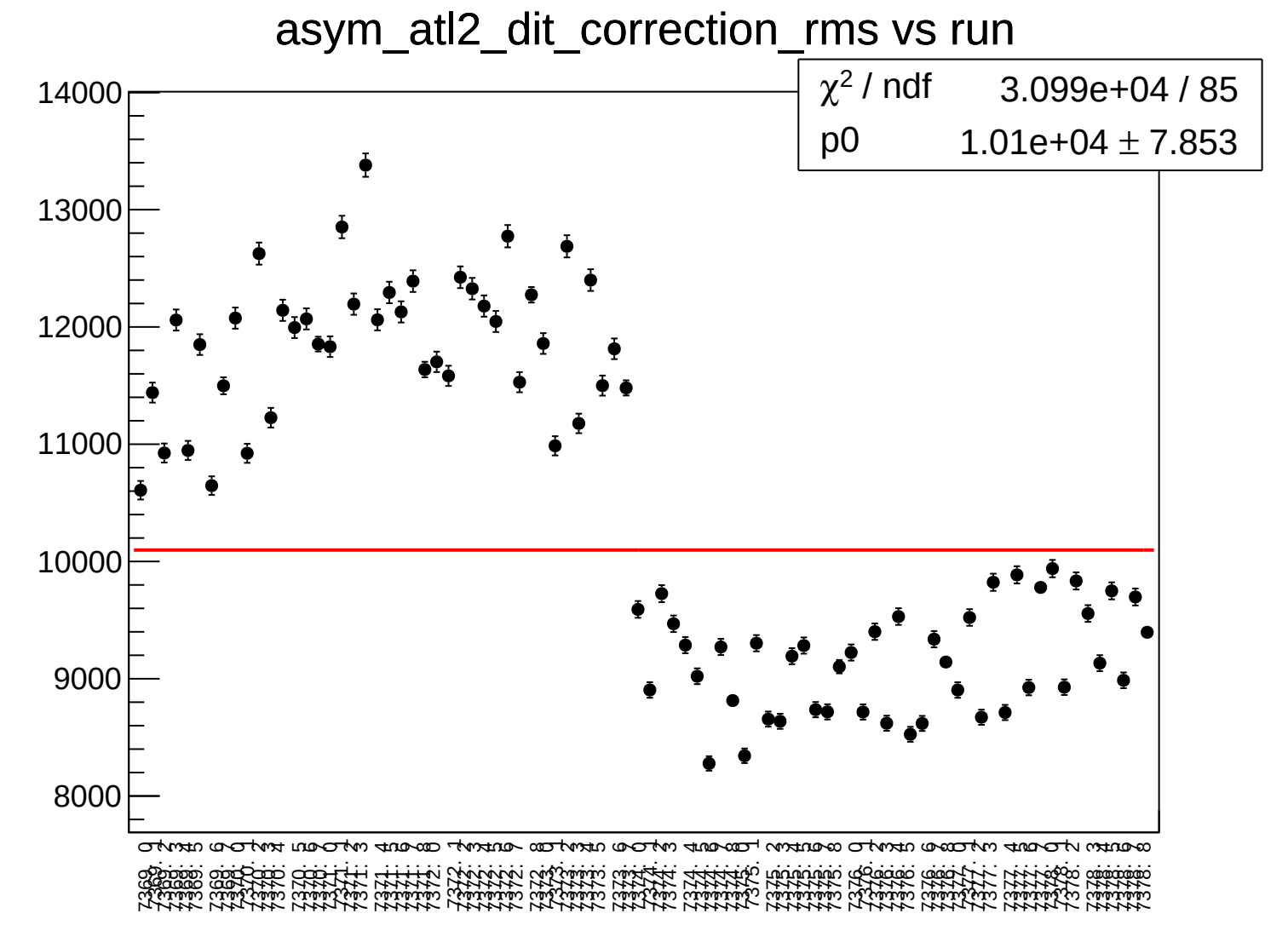

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 77.95 / 85
p0 −1248 ± 3192
100
50
0
−50
−100
pull
Entries 86
Mean −197.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

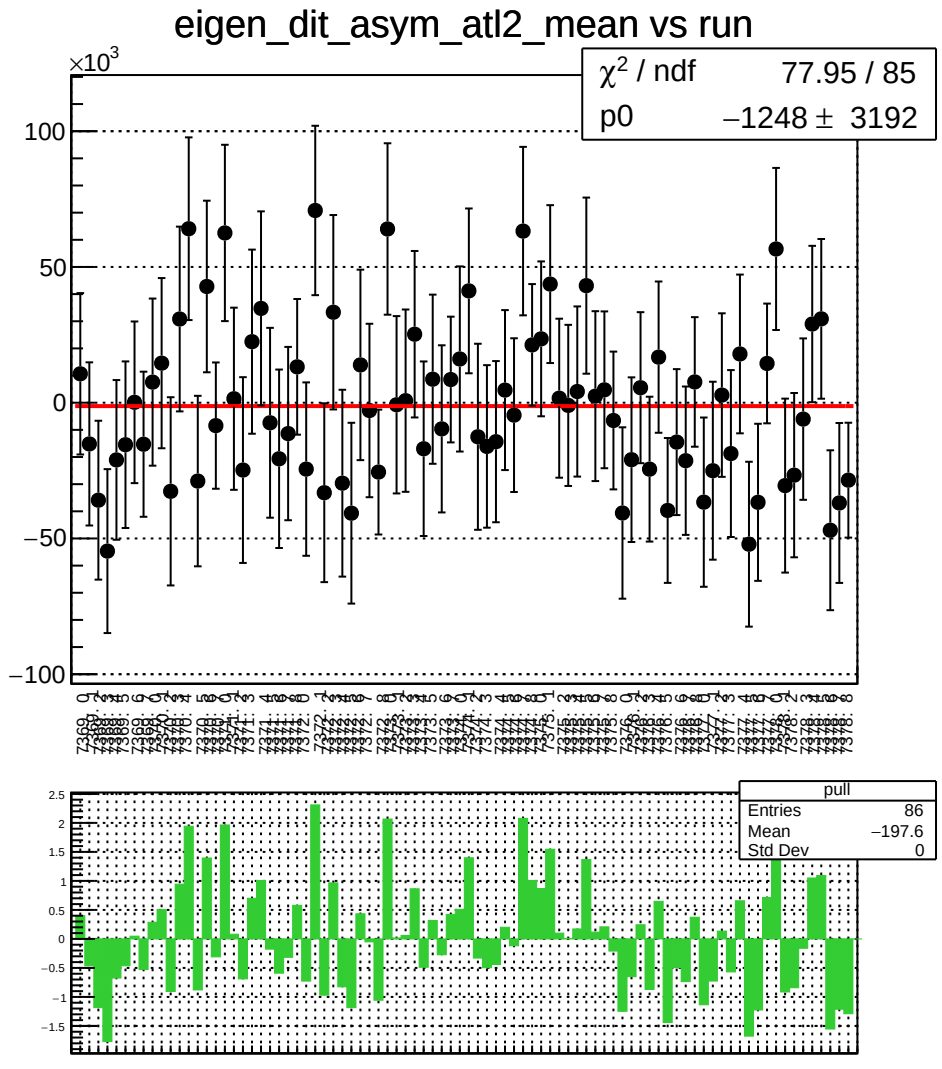

pull1D
Entries 86
Mean 0.01019
Std Dev 0.952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

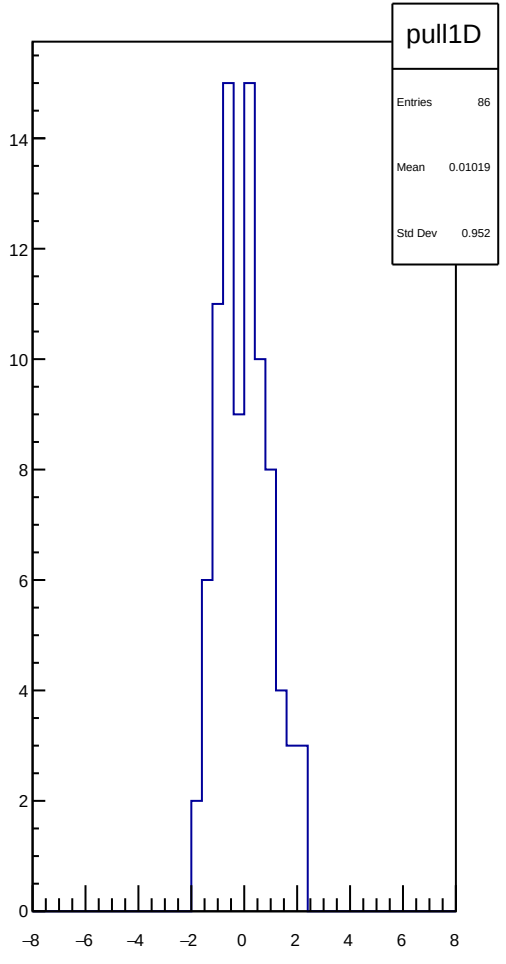

dit_asym_atl2_rms vs run
χ² / ndf 6980 / 85
p0 2923 ± 2.257
3400
3200
3000
2800
2600

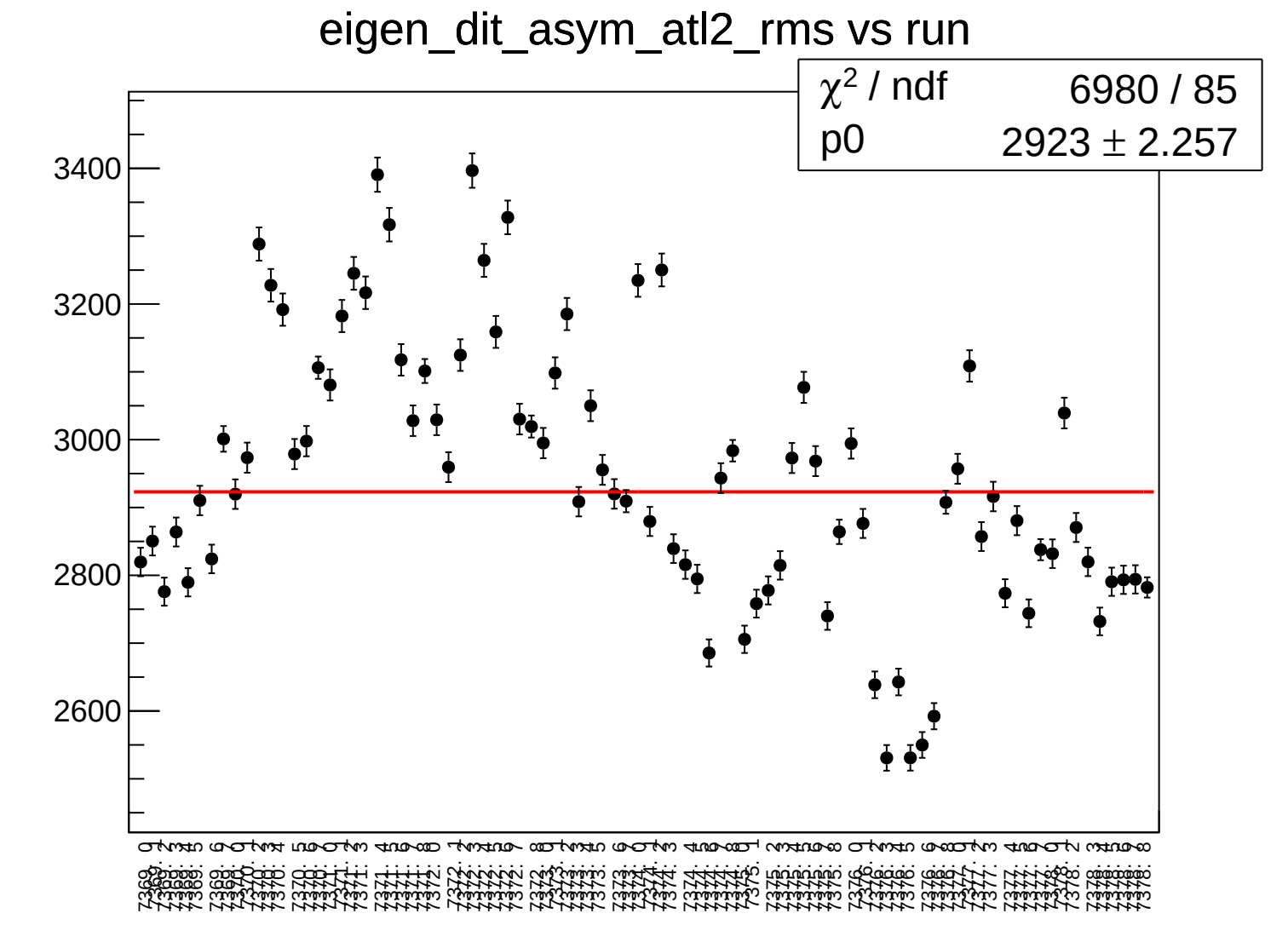

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 96.68 / 85
p0 −1.205e+04 ± 1.111e+04
400
200
0
−200
−400
pull
Entries 86
Mean −305.6
Std Dev 0
2
1
0
−1
−2
−3

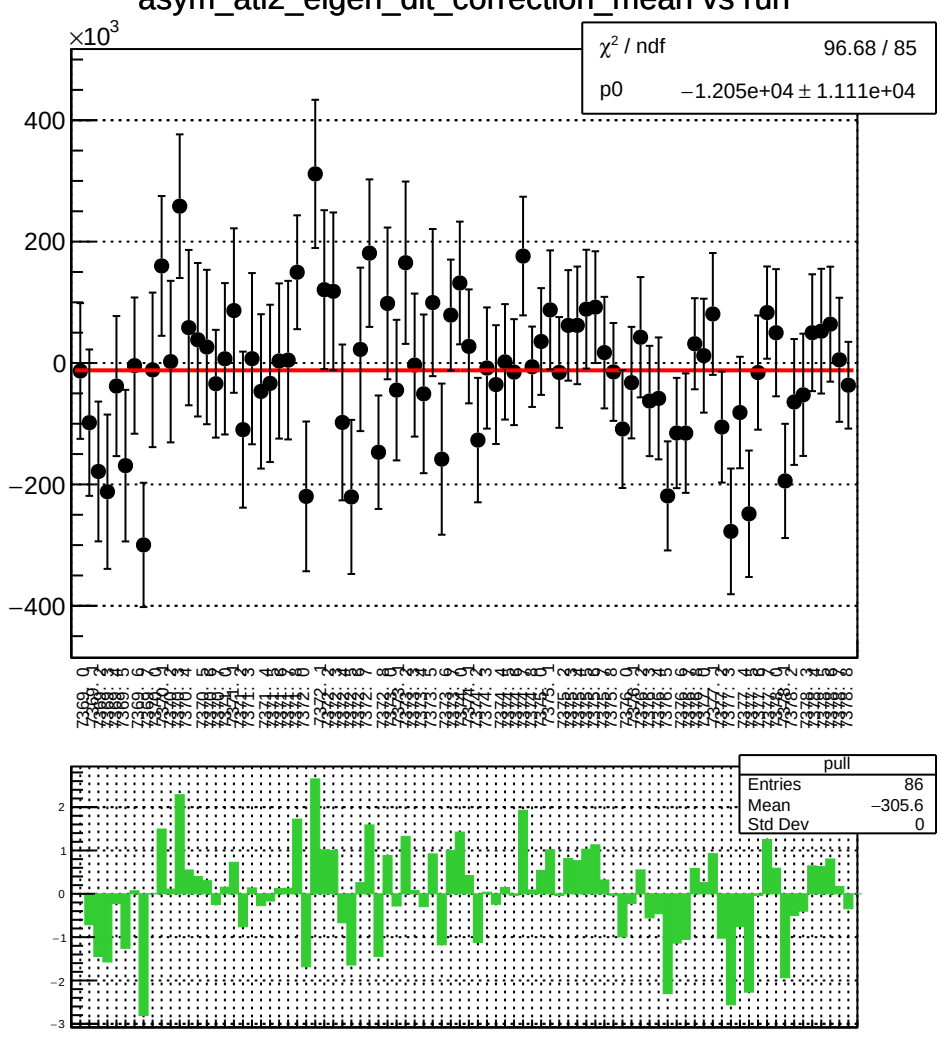

pull1D
Entries 86
Mean 0.003302
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

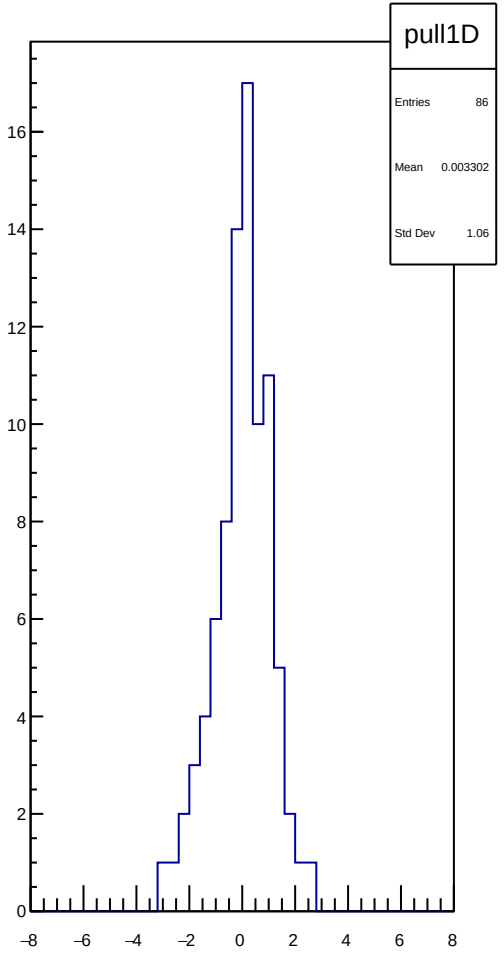

asym_atl2_dit_correction_rms vs run
χ² / ndf 3.099e+04 / 85
p0 1.01e+04 ± 7.853
14000
13000
12000
11000
10000
9000
8000

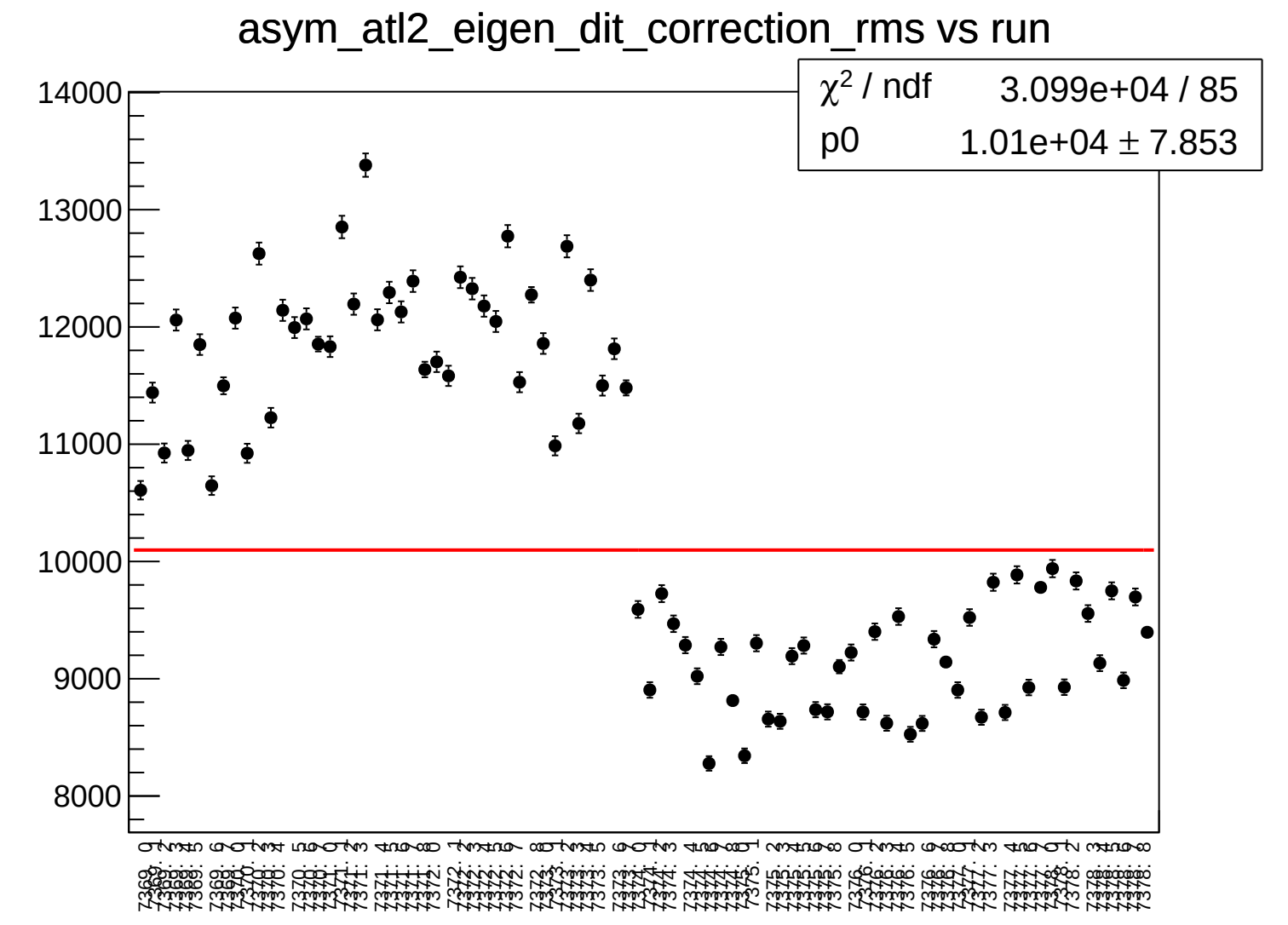

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 77.95 / 85
p0 −1248 ± 3192
100
50
0
−50
−100
pull
Entries 86
Mean −197.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

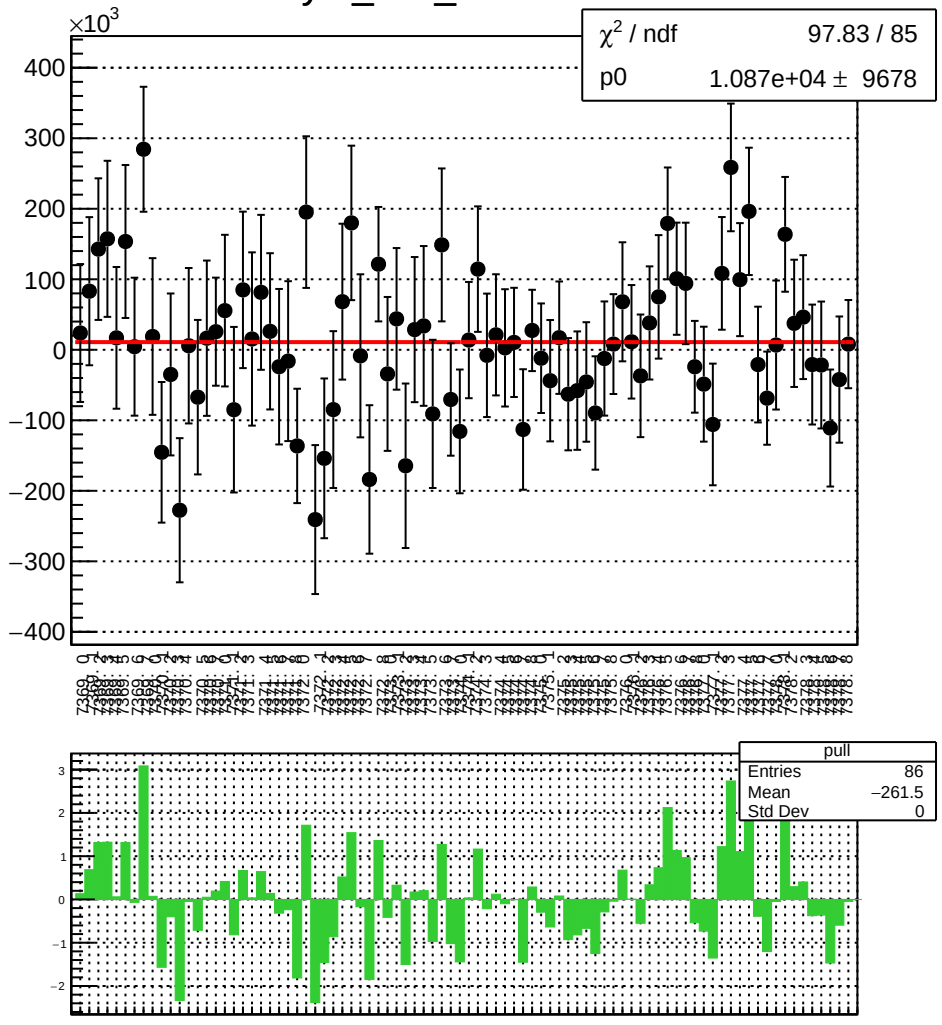

pull1D
Entries 86
Mean 0.01019
Std Dev 0.952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

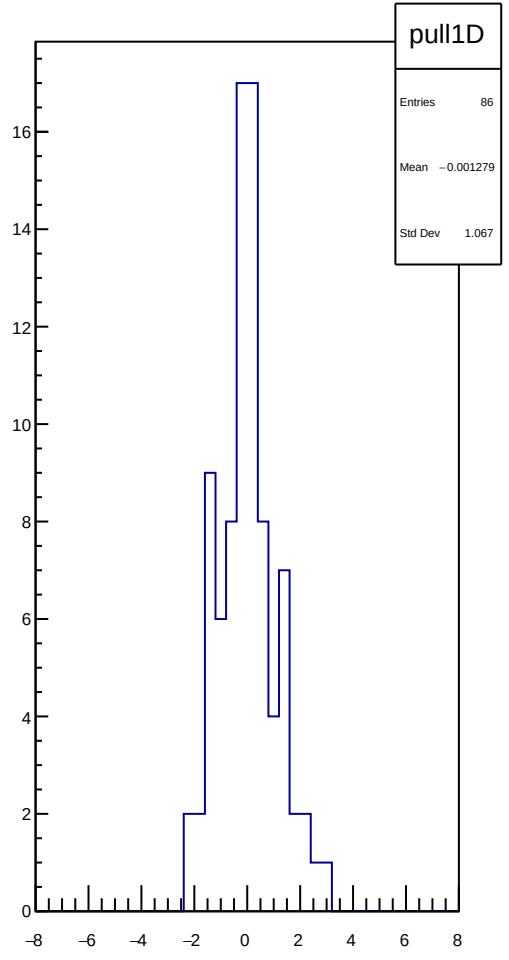

eigen_dit_asym_atl2_rms vs run
χ² / ndf 6980 / 85
p0 2923 ± 2.257
3400
3200
3000
2800
2600

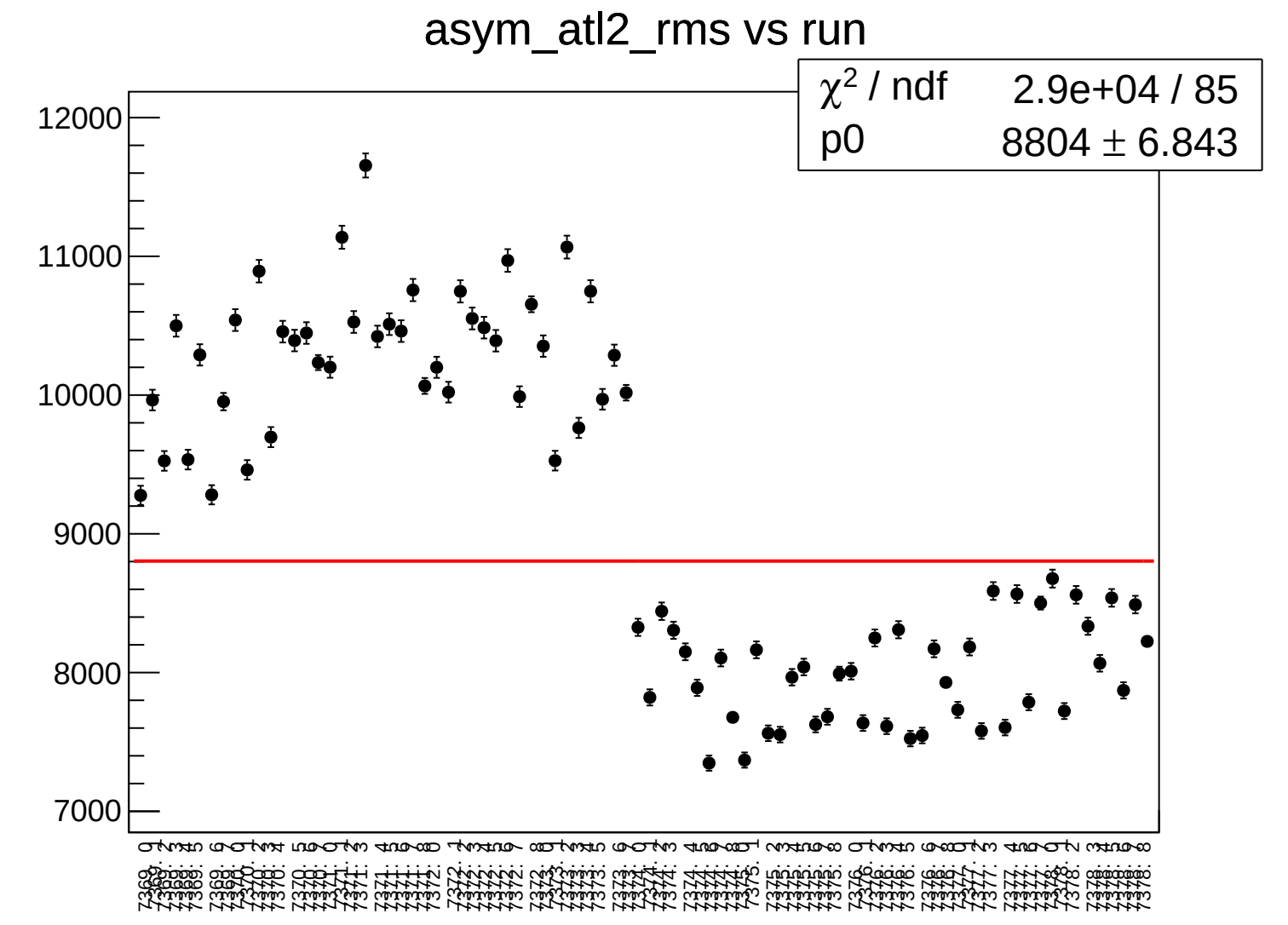

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.68 / 85
p0 −1.205e+04 ± 1.111e+04
400
200
0
−200
−400
pull
Entries 86
Mean −305.6
Std Dev 0
2
1
0
−1
−2
−3

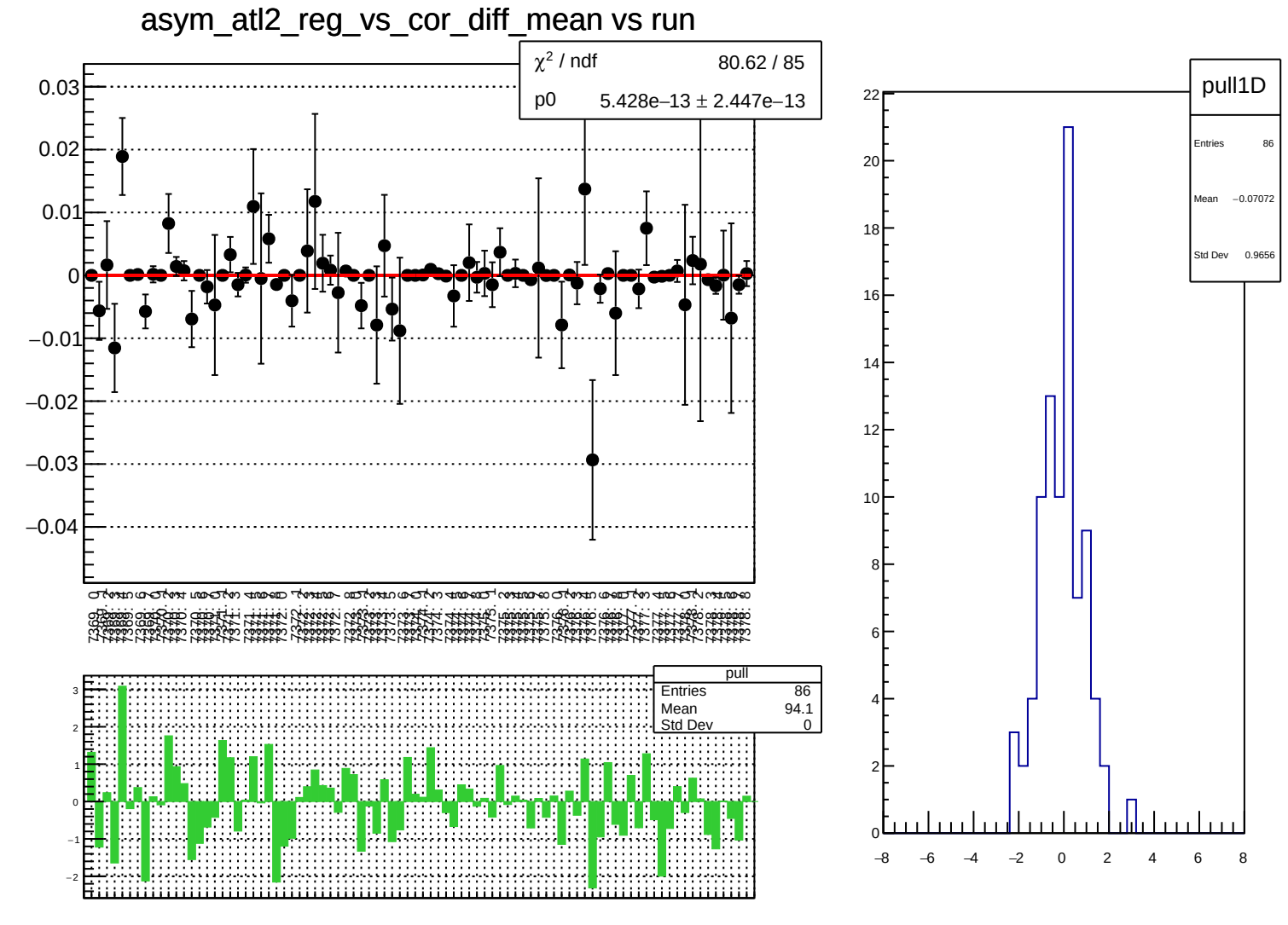

pull1D
Entries 86
Mean 0.003302
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

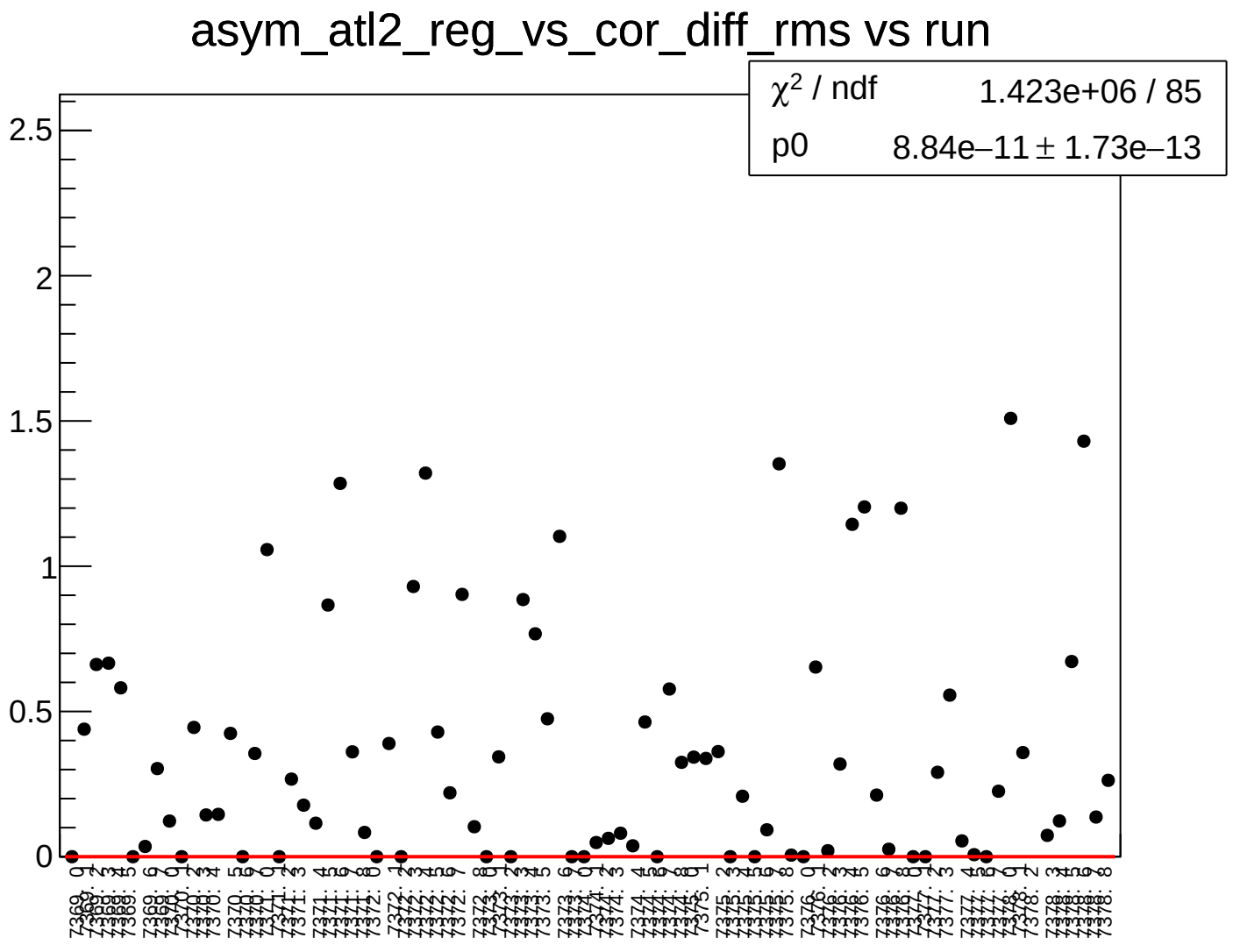

asym_atl2_eigen_dit_correction_rms vs run
χ^2 / ndf 3.099e+04 / 85
p0 1.01e+04 ± 7.853
14000
13000
12000
11000
10000
9000
8000

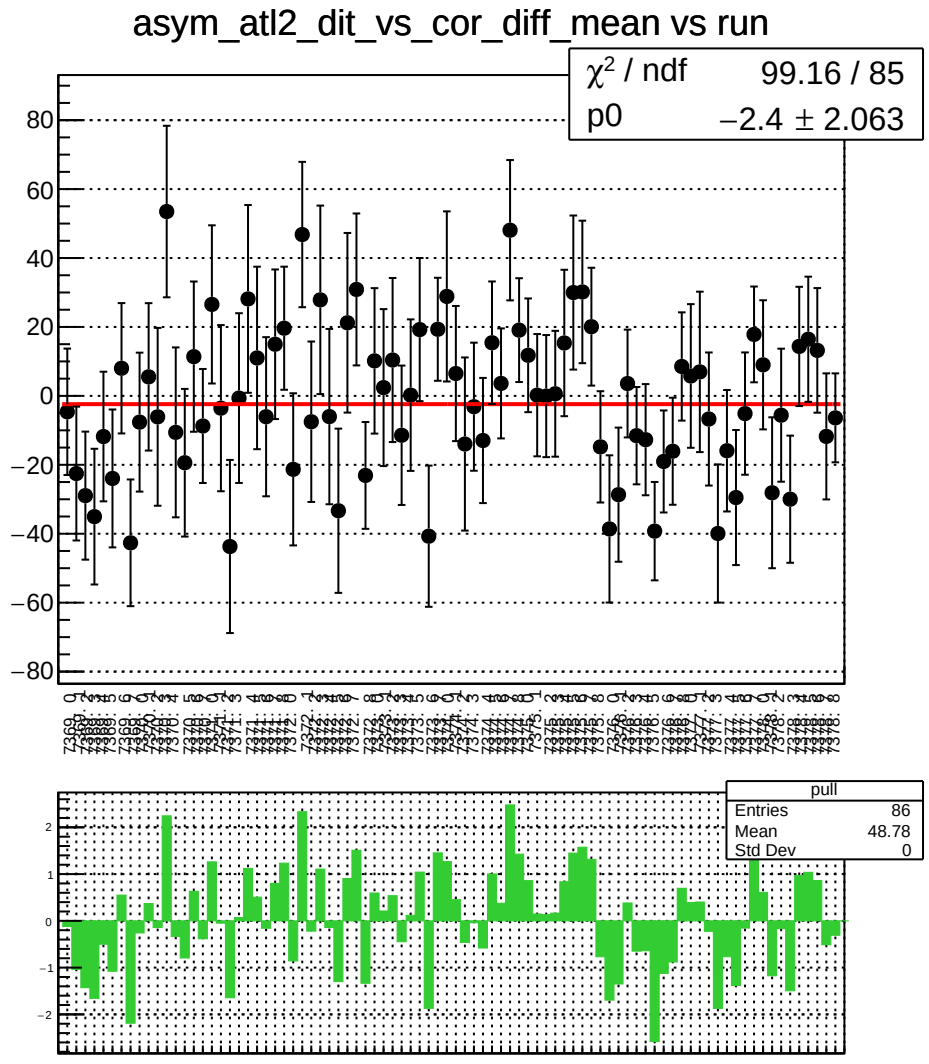

asym_atl2_mean vs run
×10^3
χ² / ndf 97.83 / 85
p0 1.087e+04 ± 9678
pull
Entries 86
Mean −261.5
Std Dev 0

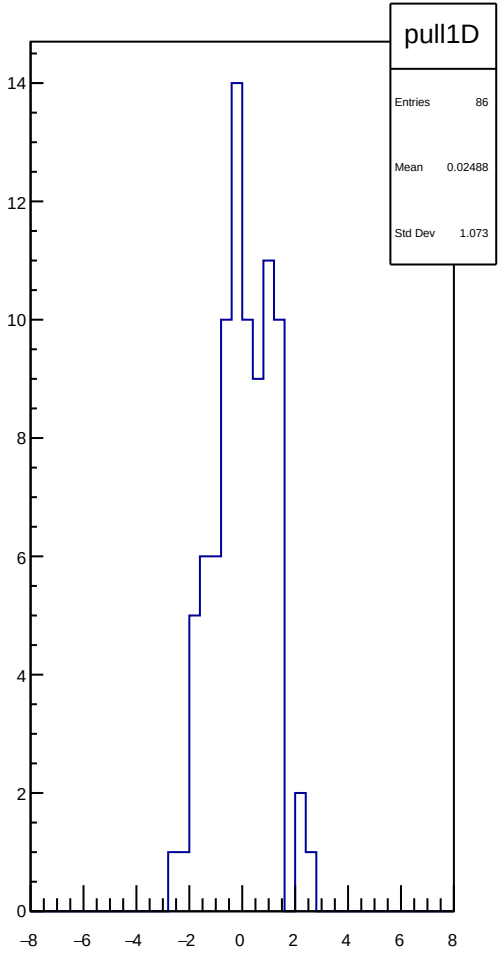

pull1D
Entries 86
Mean −0.001279
Std Dev 1.067

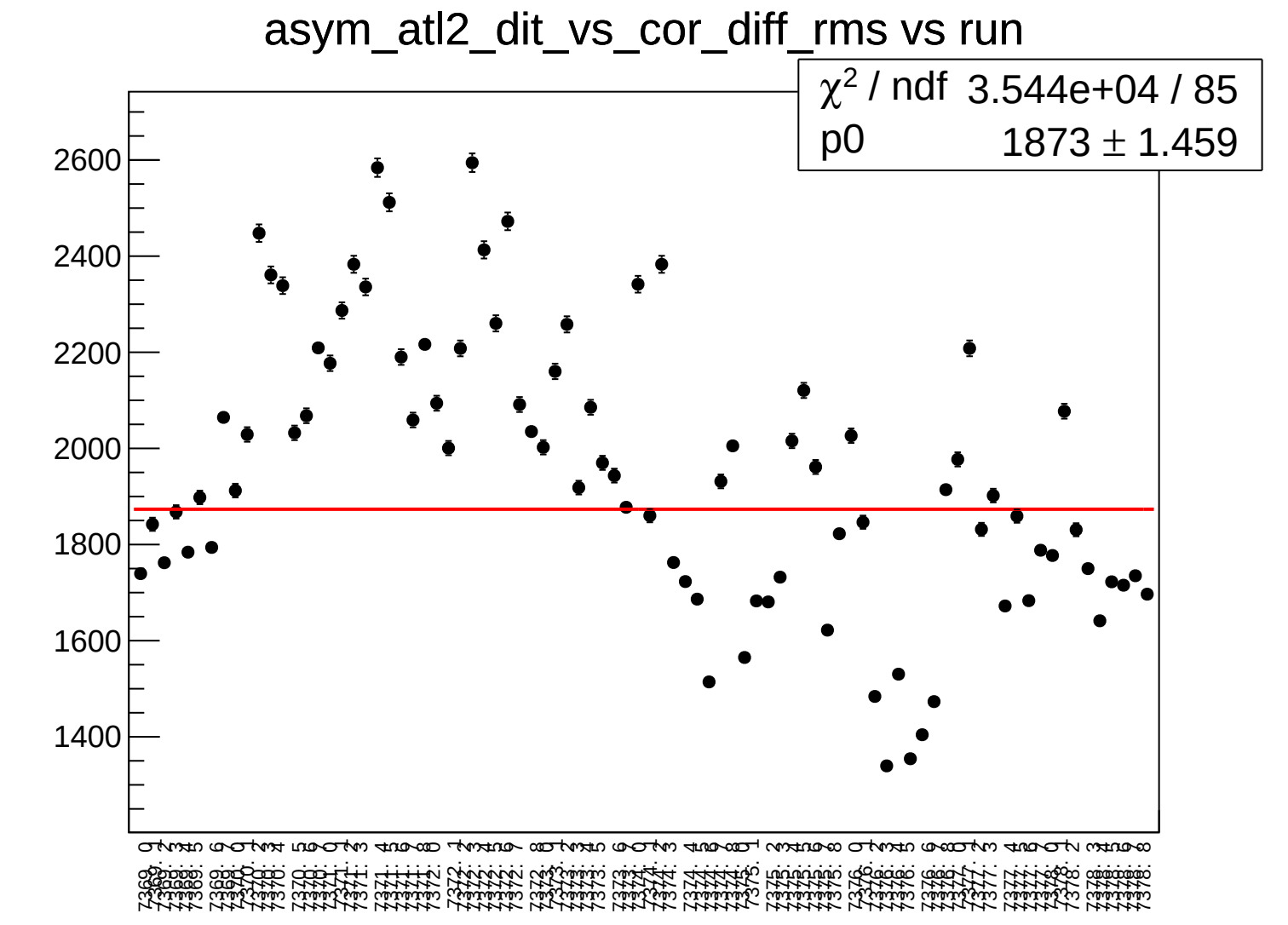

asym_atl2_rms vs run
χ² / ndf 2.9e+04 / 85
p0 8804 ± 6.843
12000
11000
10000
9000
8000
7000

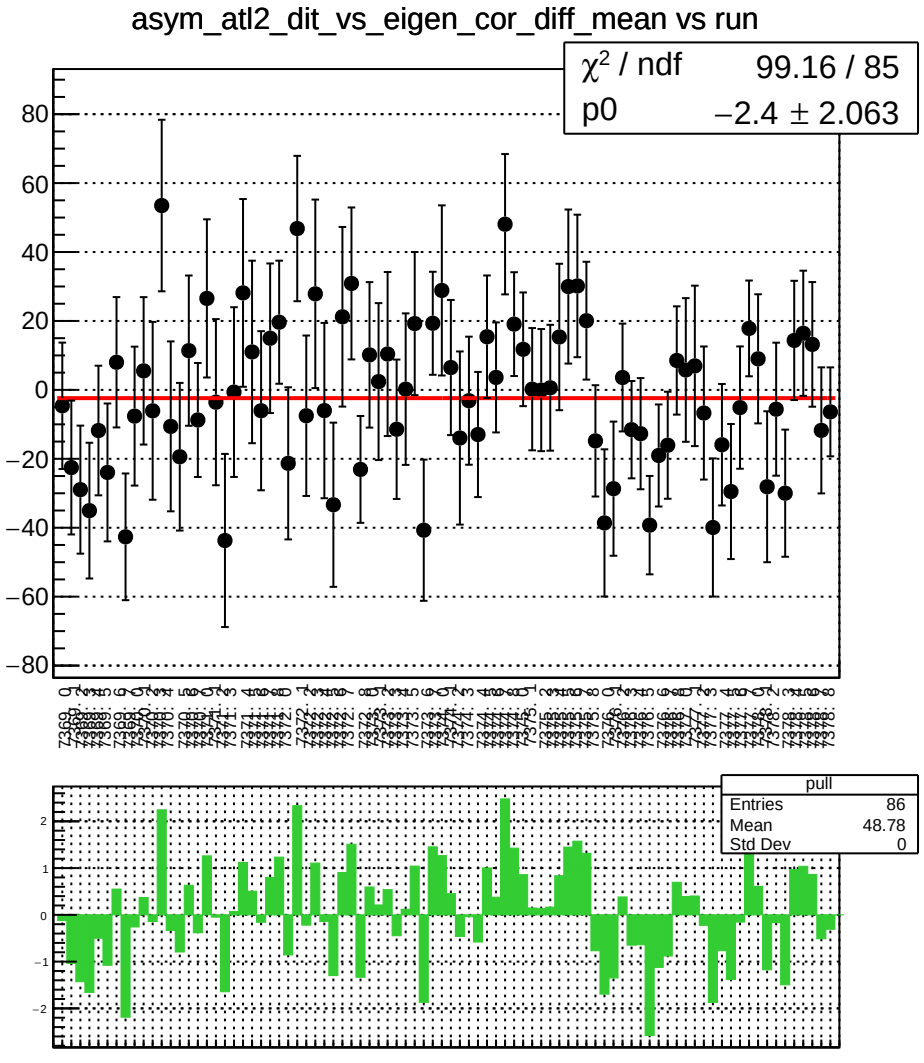

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 80.62 / 85
p0 5.428e−13 ± 2.447e−13
pull
Entries 86
Mean 94.1
Std Dev 0
pull1D
Entries 86
Mean −0.07072
Std Dev 0.9656

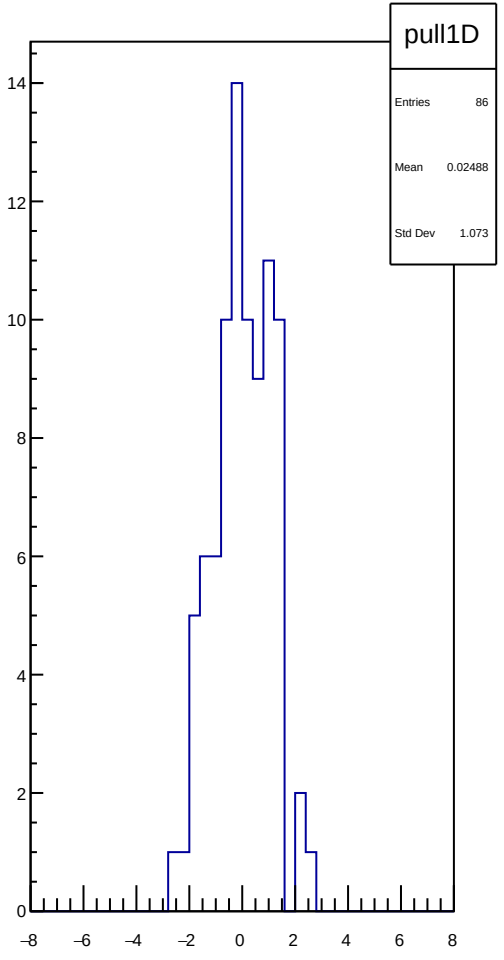

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.423e+06 / 85
p0 8.84e−11 ± 1.73e−13
2.5
2
1.5
1
0.5
0

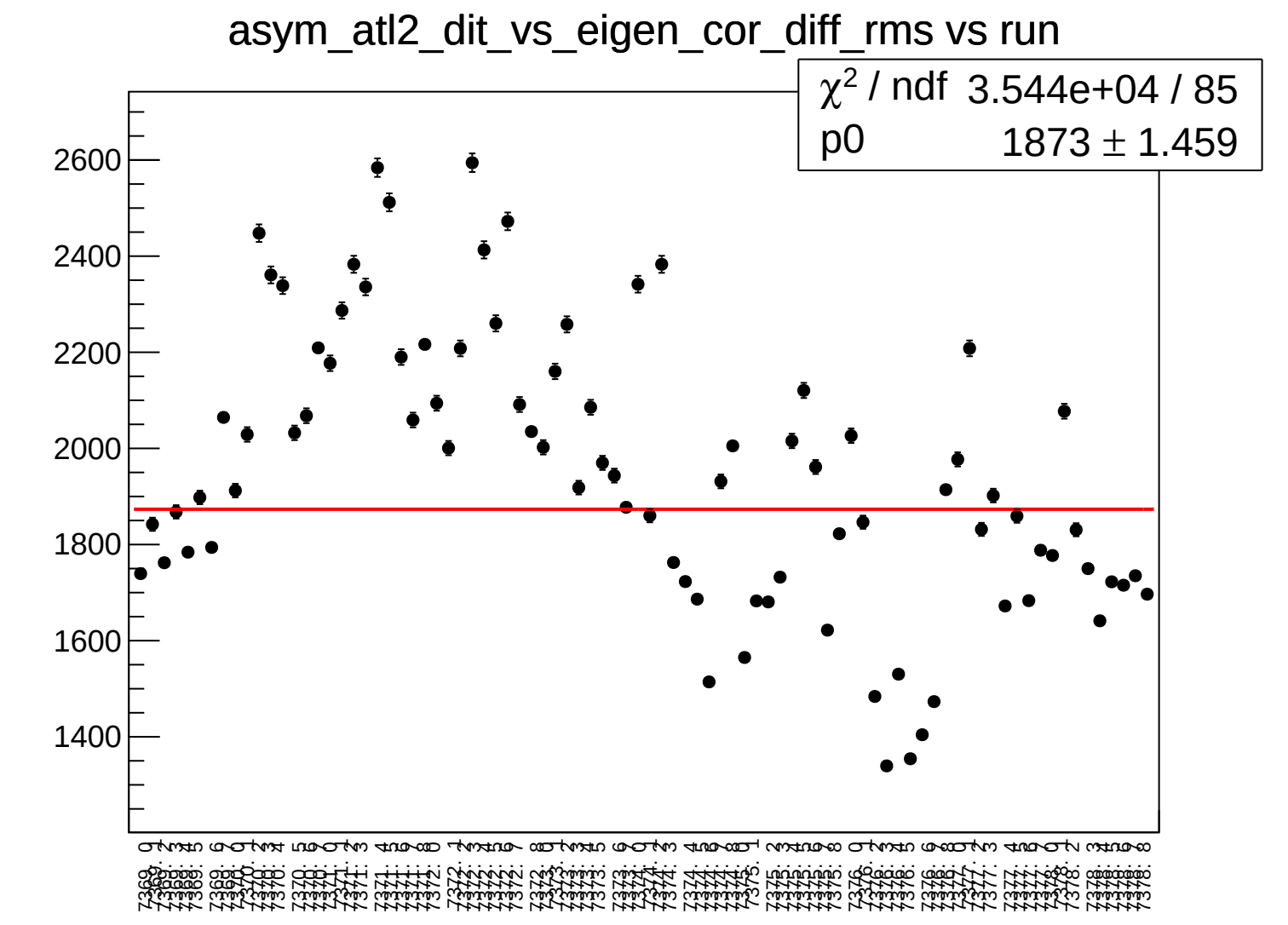

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 99.16 / 85
p0 −2.4 ± 2.063
pull
Entries 86
Mean 48.78
Std Dev 0

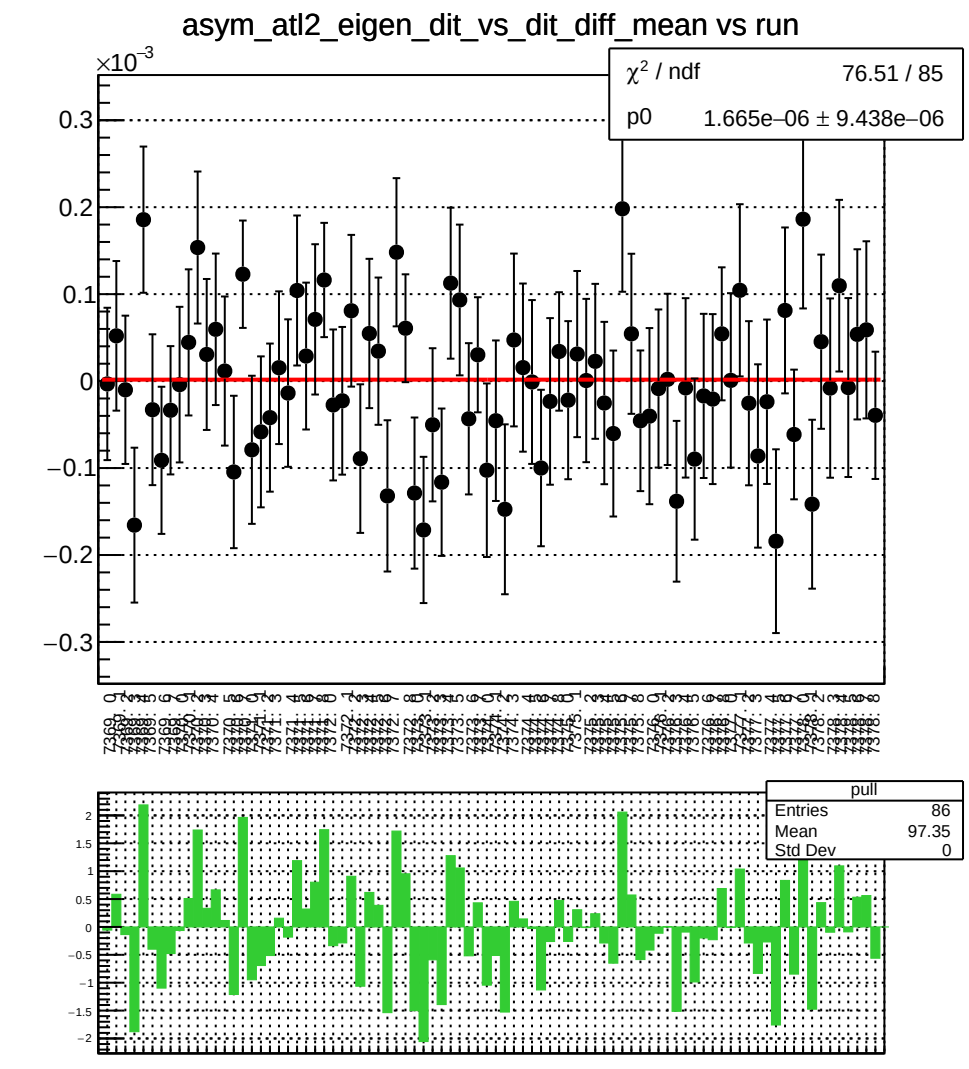

pull1D
Entries 86
Mean 0.02488
Std Dev 1.073

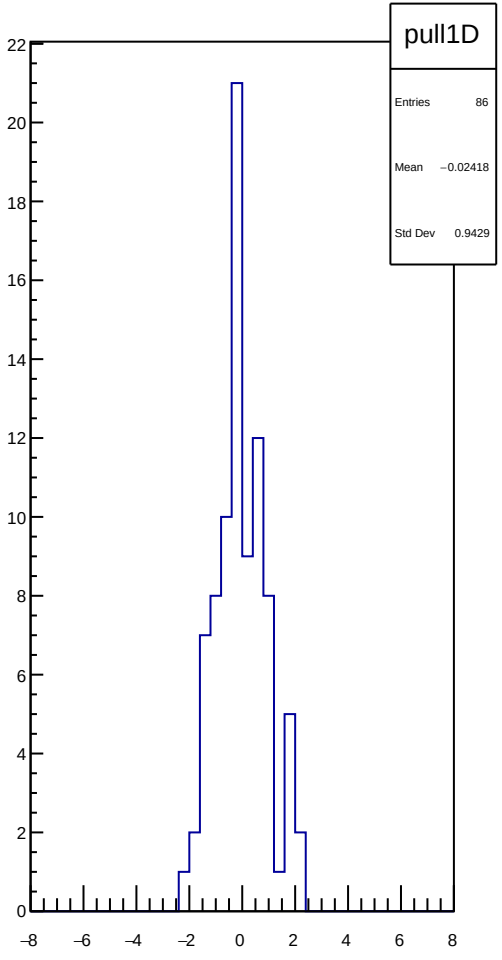

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.544e+04 / 85
p0 1873 ± 1.459
2600
2400
2200
2000
1800
1600
1400

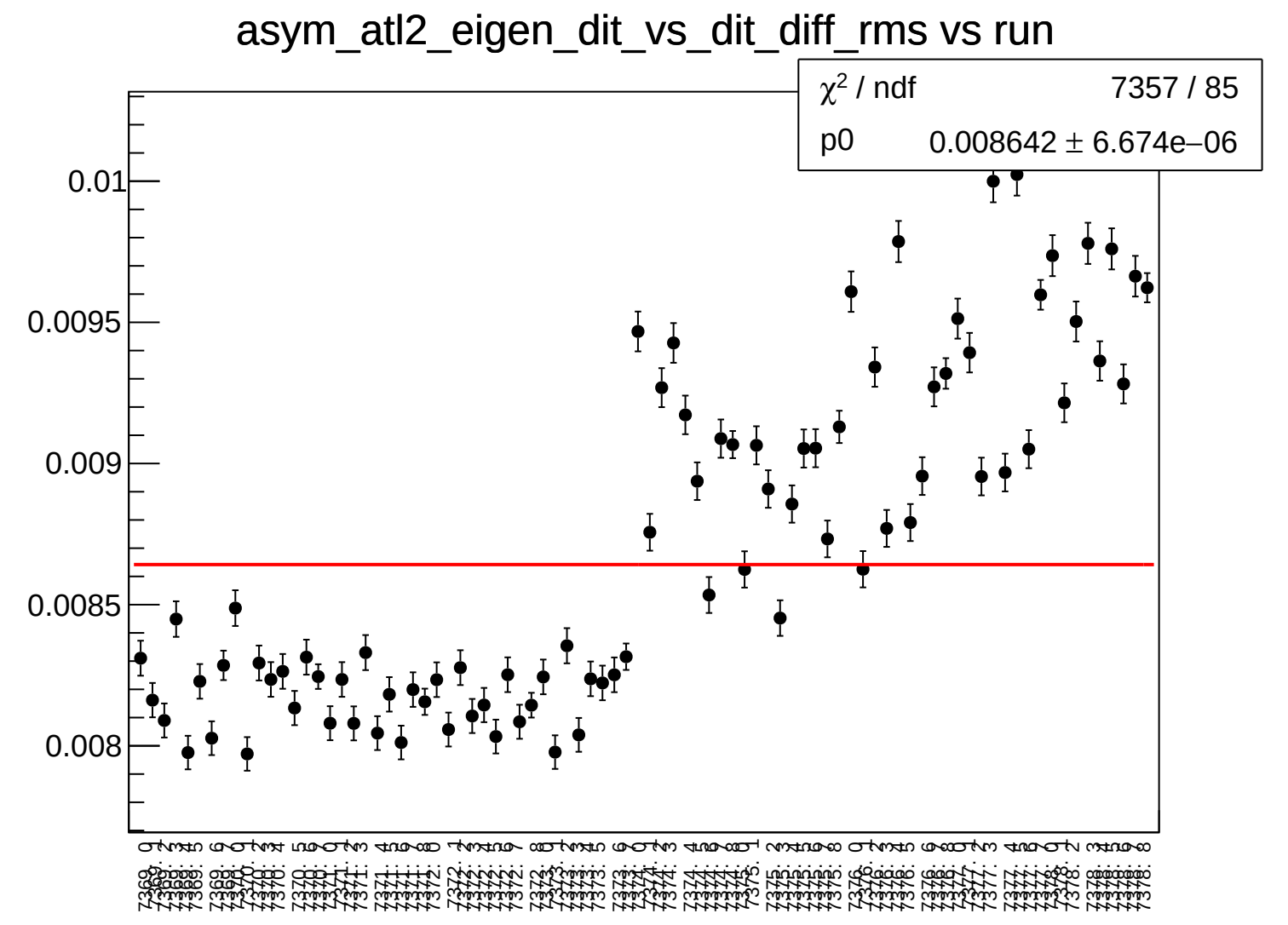

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.16 / 85
p0 −2.4 ± 2.063
pull
Entries 86
Mean 48.78
Std Dev 0

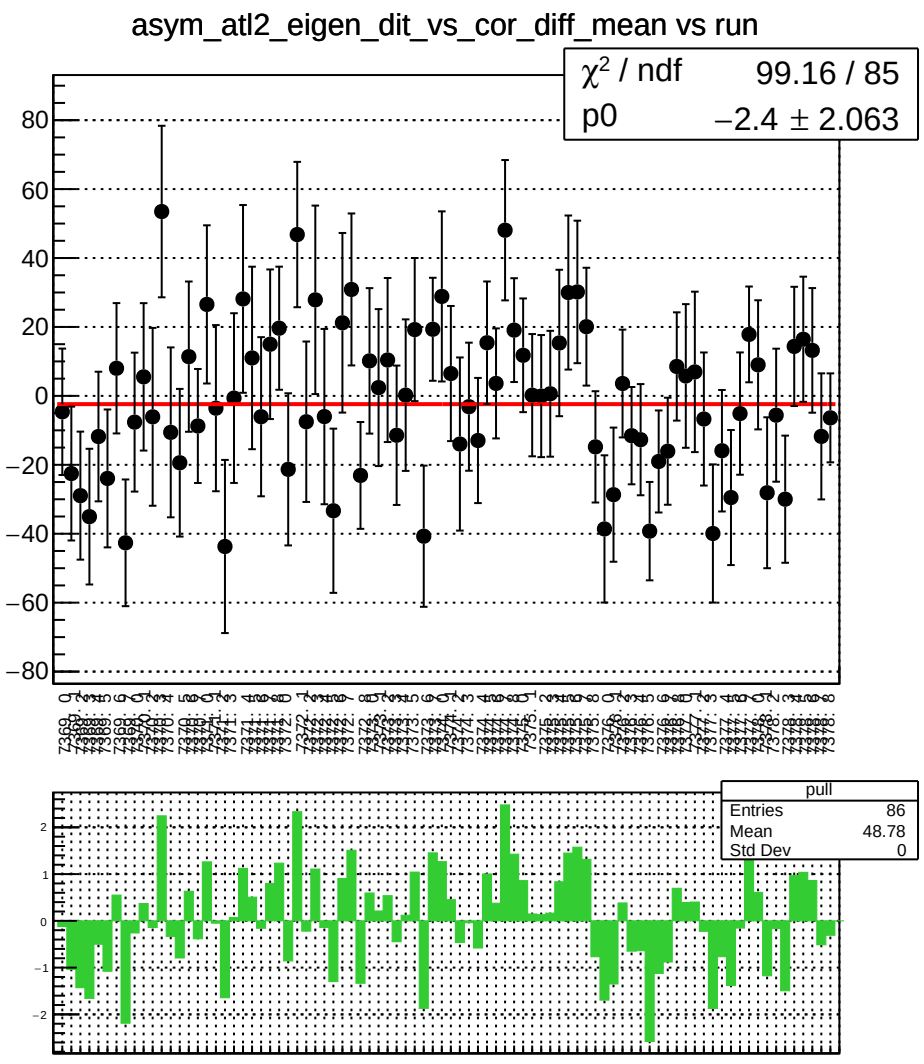

pull1D
Entries 86
Mean 0.02488
Std Dev 1.073

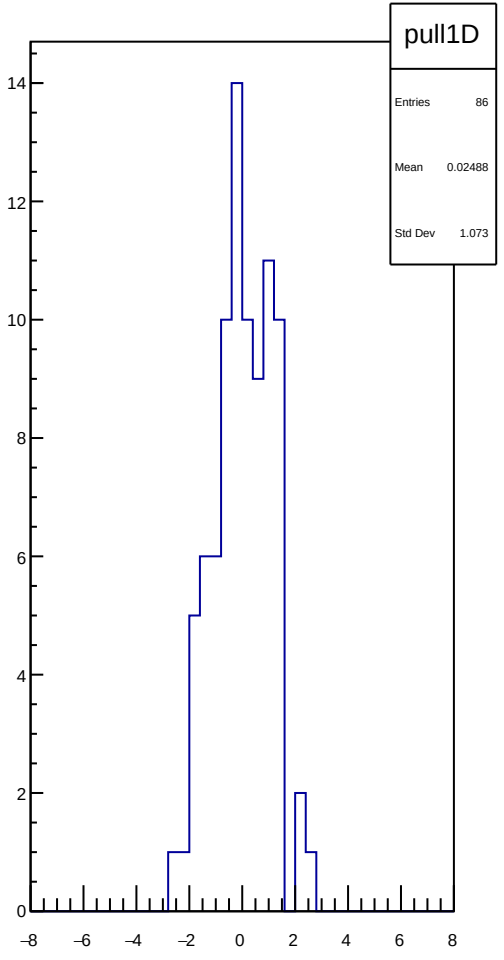

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.544e+04 / 85
p0 1873 ± 1.459
2600
2400
2200
2000
1800
1600
1400

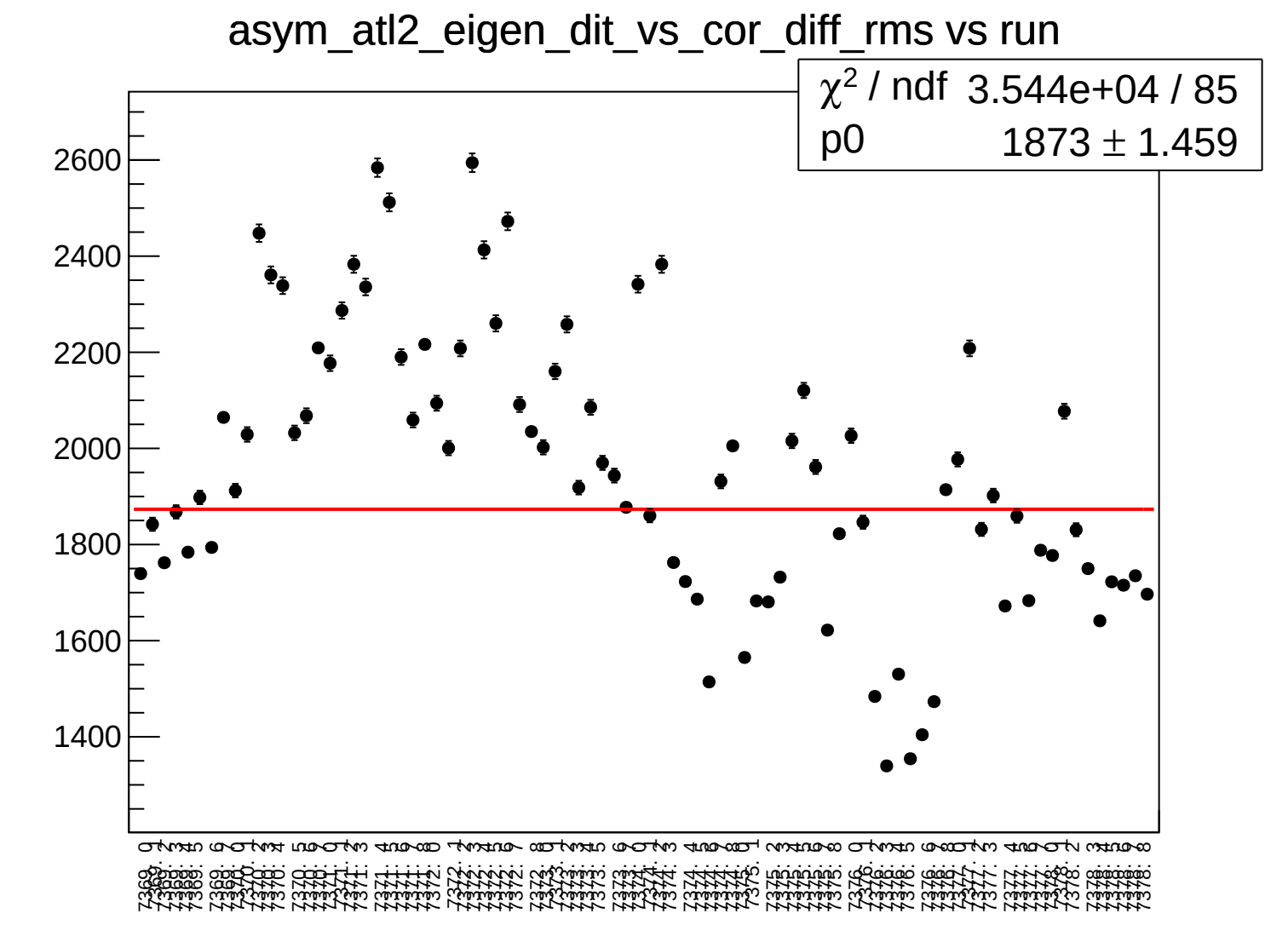

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.51 / 85
p0 1.665e−06 ± 9.438e−06
pull
Entries 86
Mean 97.35
Std Dev 0

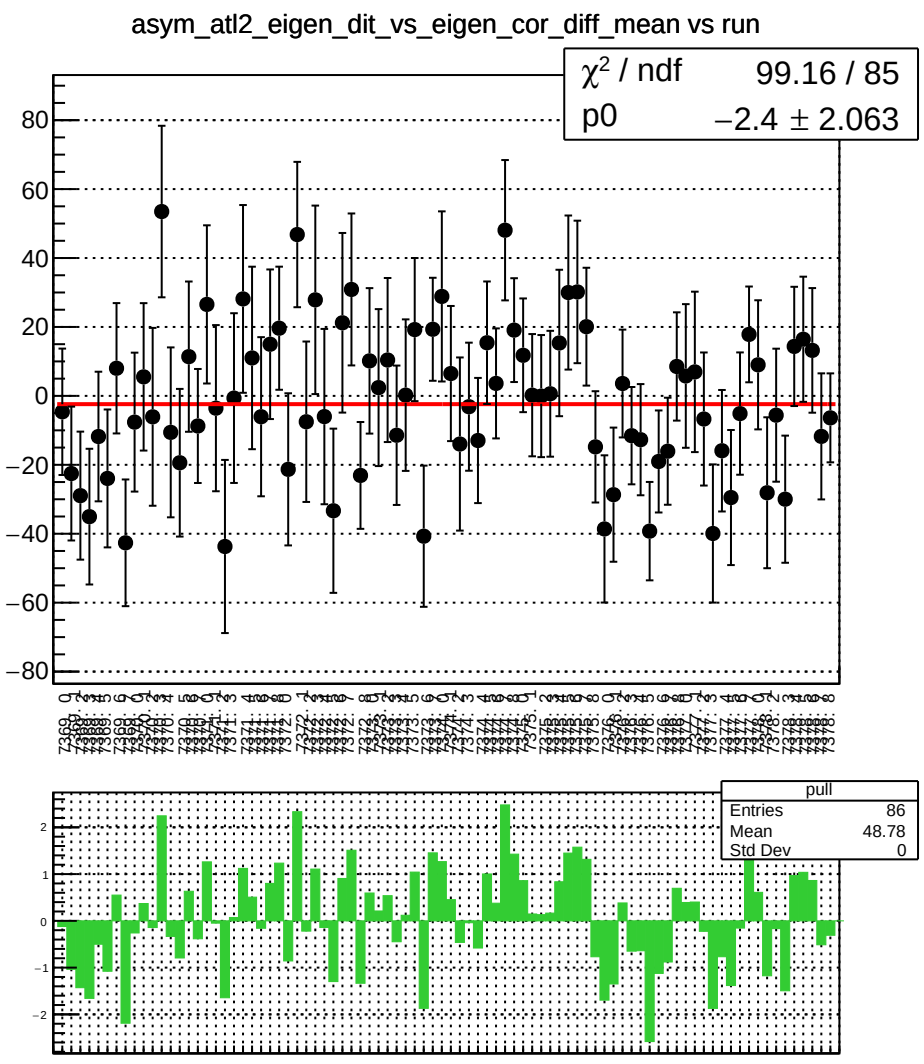

pull1D
Entries 86
Mean −0.02418
Std Dev 0.9429

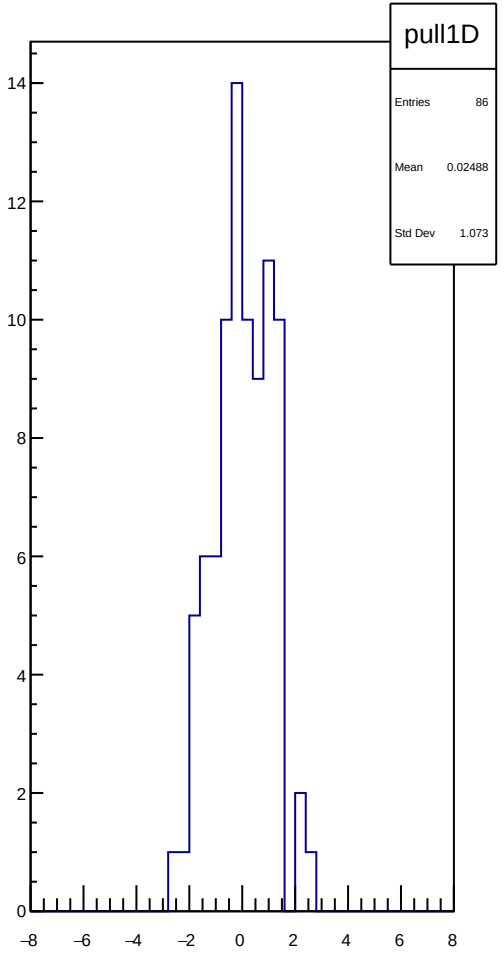

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7357 / 85
p0 0.008642 ± 6.674e−06
0.01
0.0095
0.009
0.0085
0.008

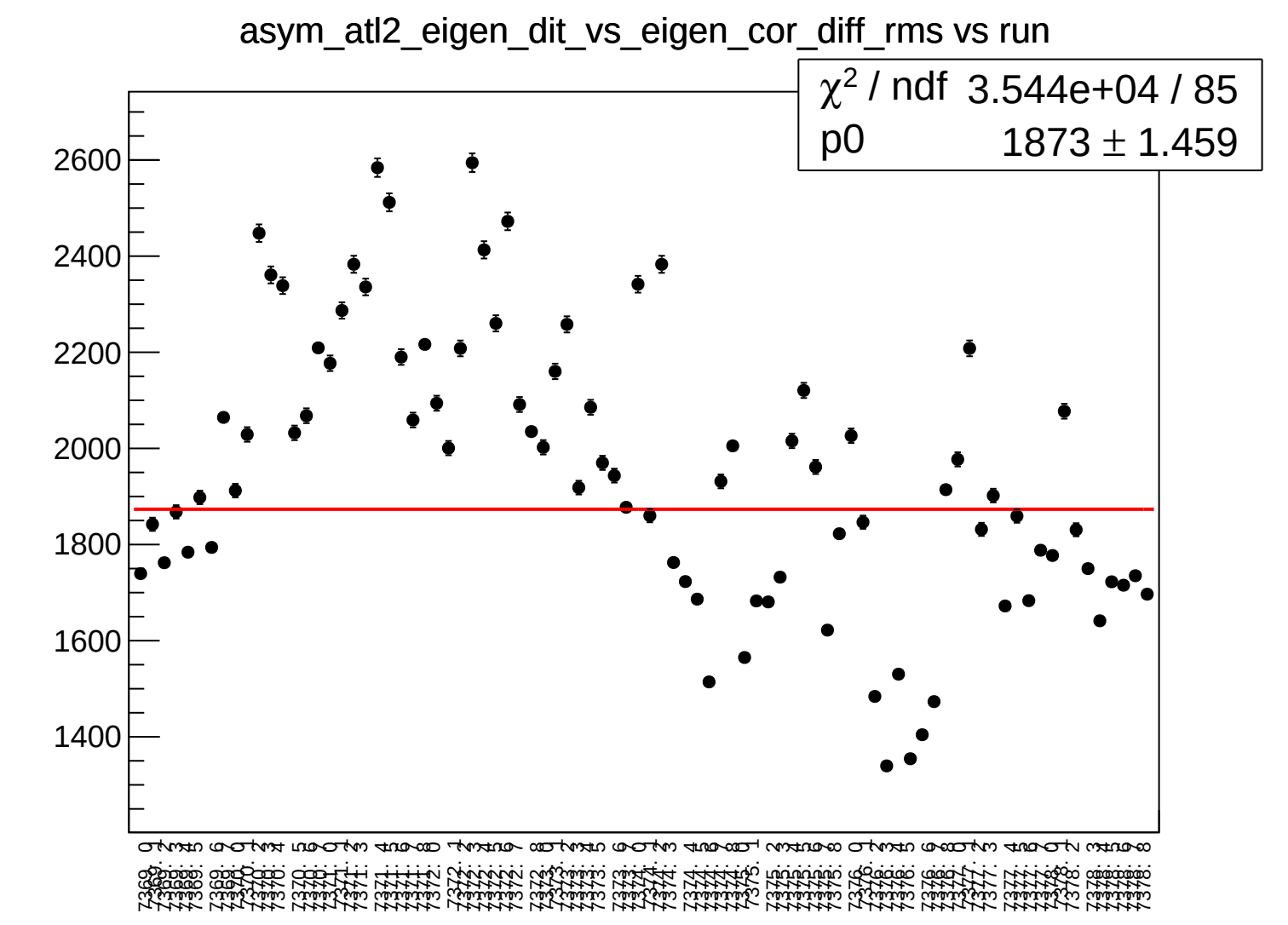

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.16 / 85
p0 −2.4 ± 2.063
pull
Entries 86
Mean 48.78
Std Dev 0

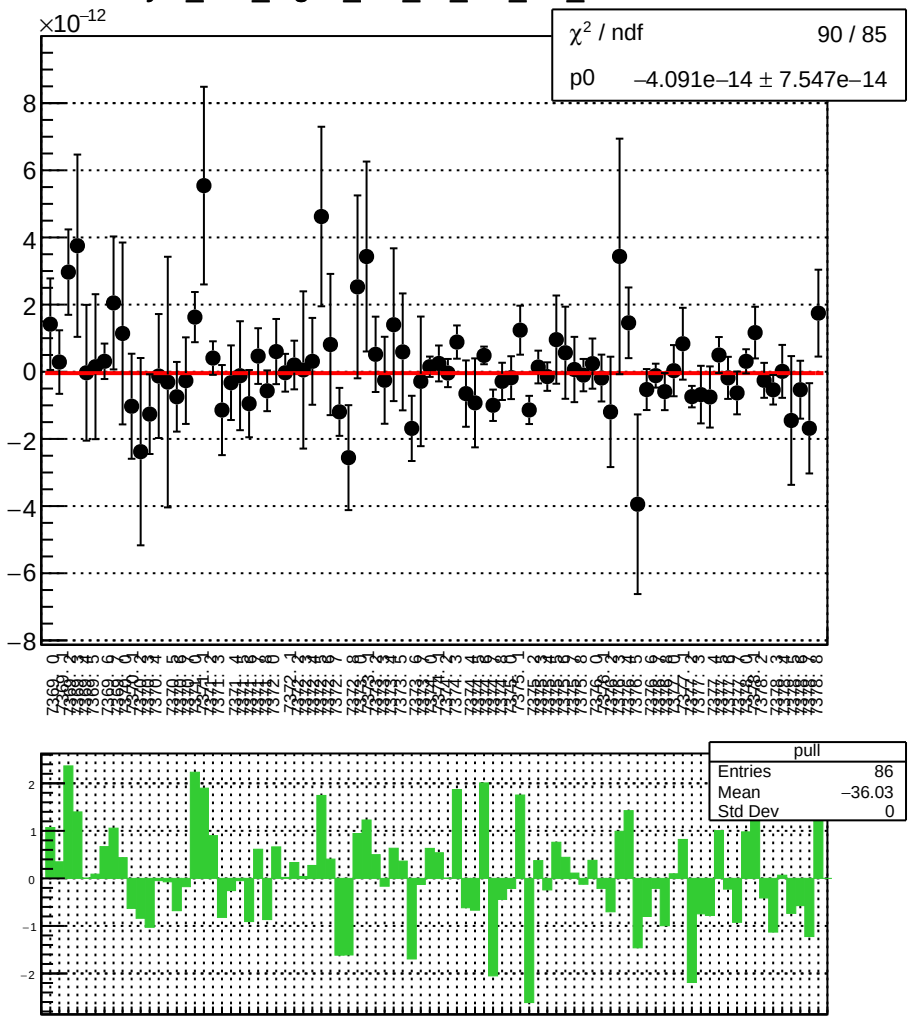

pull1D
Entries 86
Mean 0.02488
Std Dev 1.073

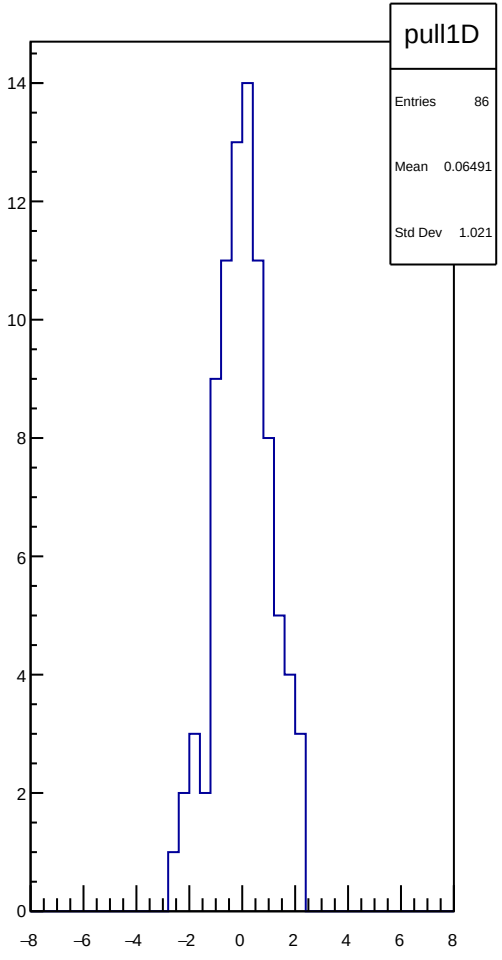

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.544e+04 / 85
p0 1873 ± 1.459
2600
2400
2200
2000
1800
1600
1400

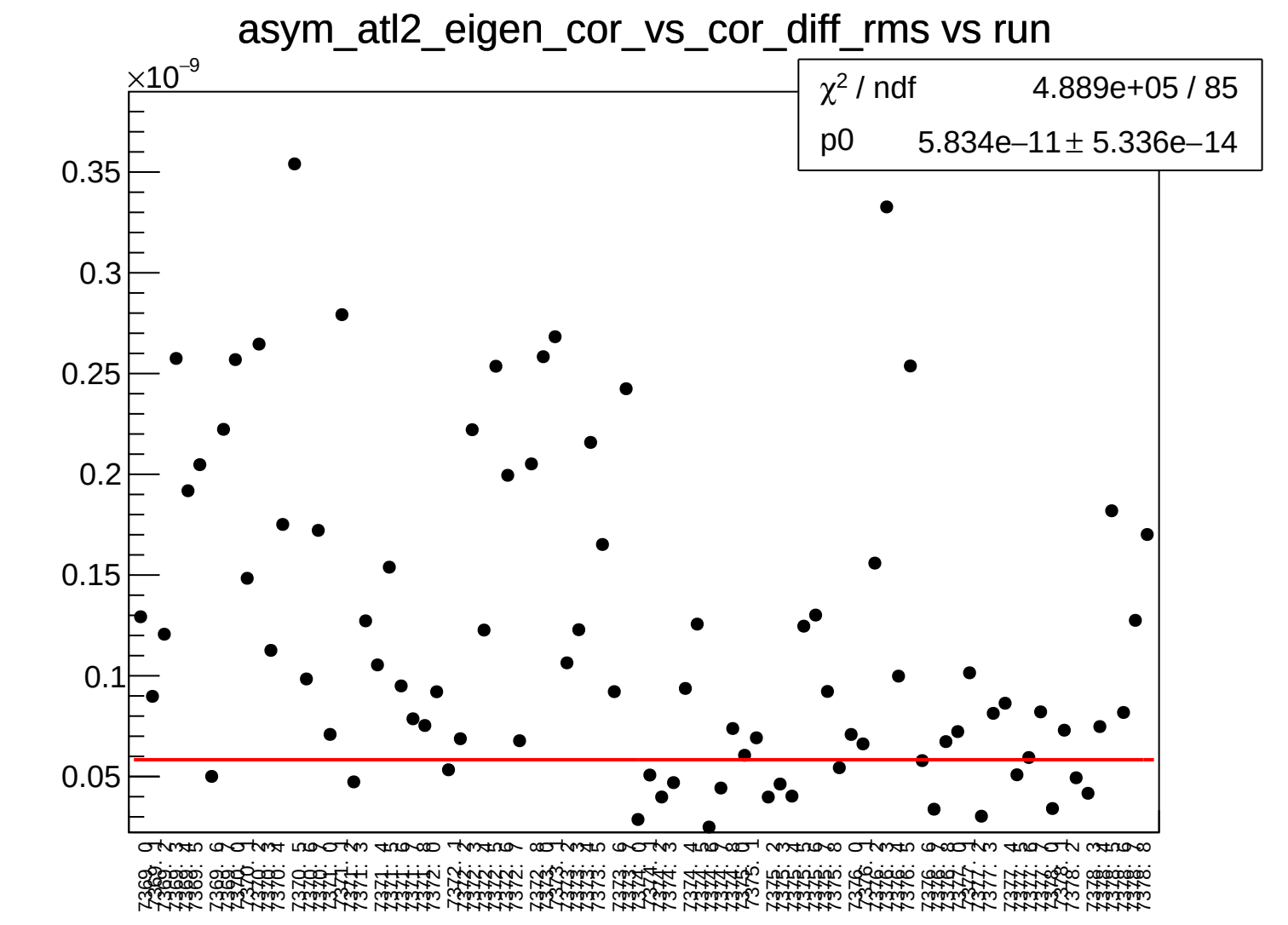

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.16 / 85
p0 −2.4 ± 2.063
pull
Entries 86
Mean 48.78
Std Dev 0

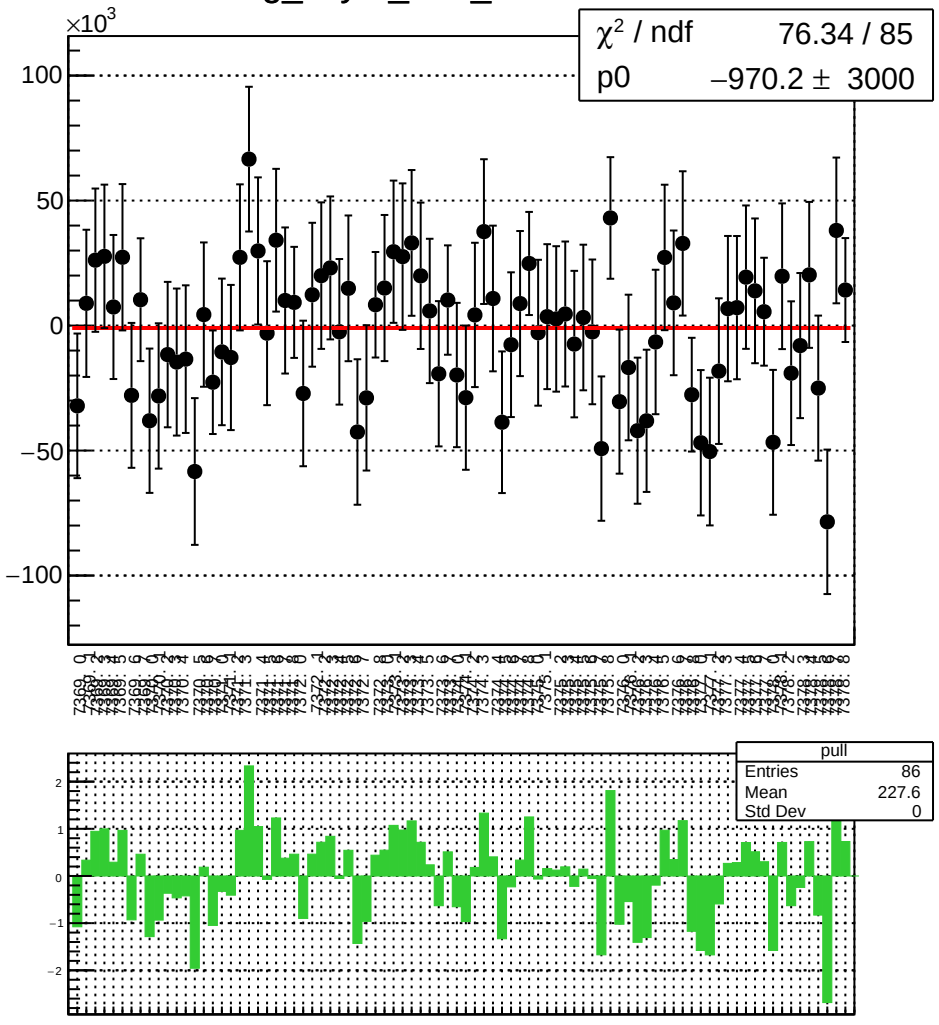

pull1D
Entries 86
Mean 0.02488
Std Dev 1.073

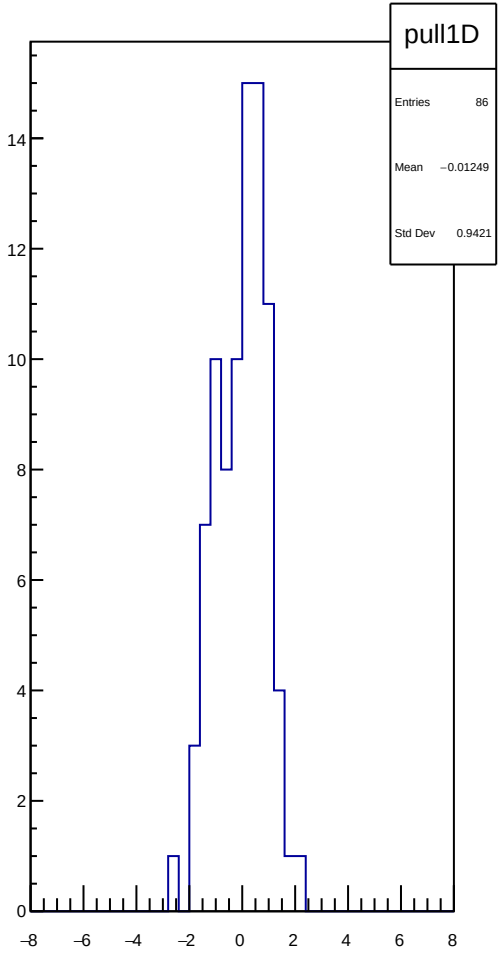

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.544e+04 / 85
p0 1873 ± 1.459
2600
2400
2200
2000
1800
1600
1400

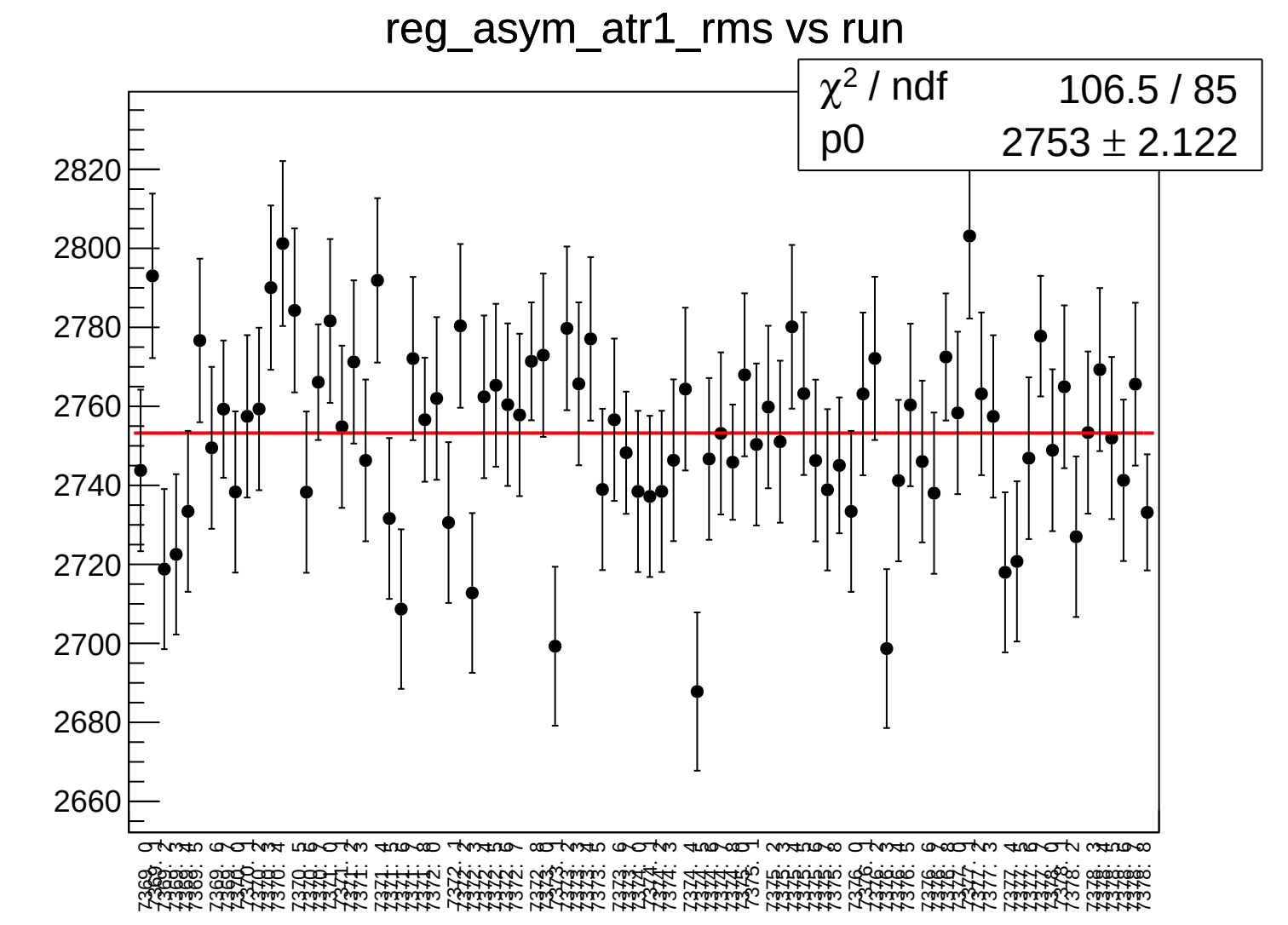

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90 / 85
p0 −4.091e−14 ± 7.547e−14
pull
Entries 86
Mean −36.03
Std Dev 0

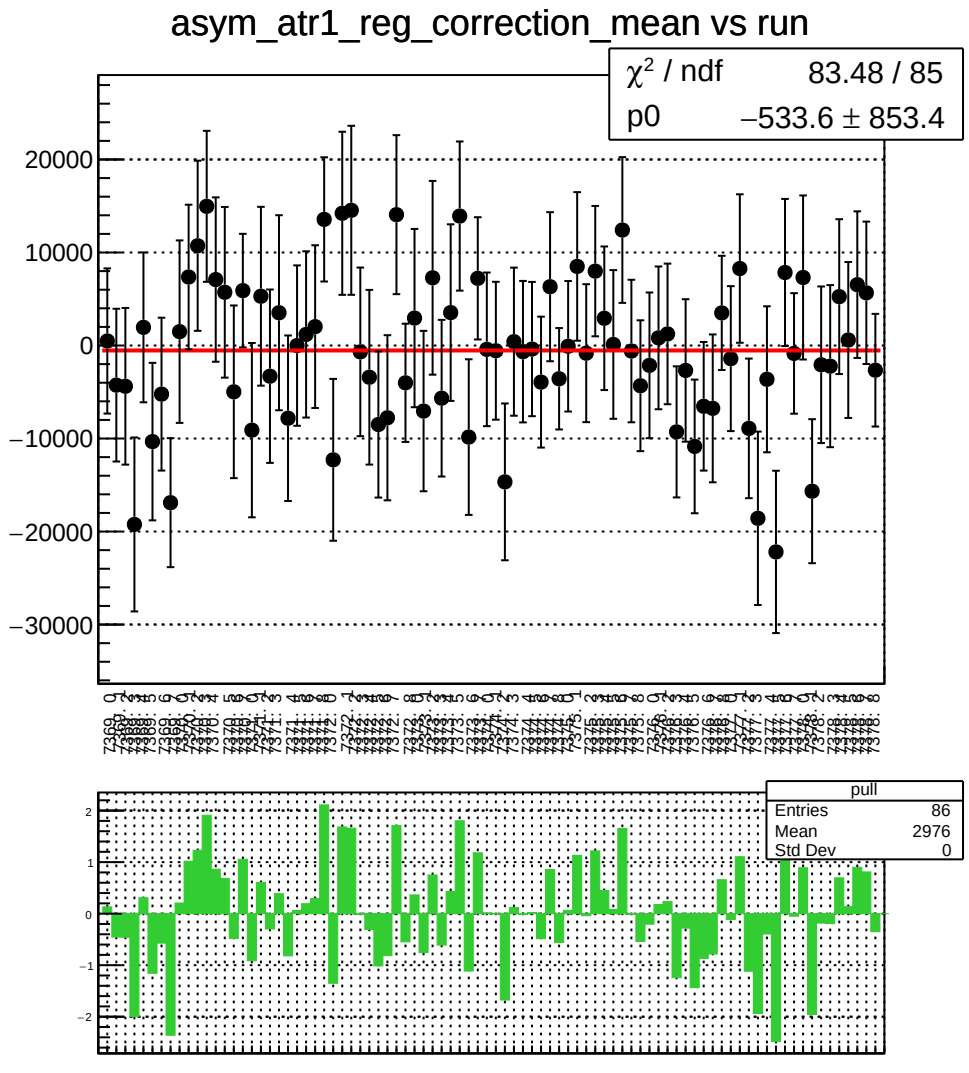

pull1D
Entries 86
Mean 0.06491
Std Dev 1.021

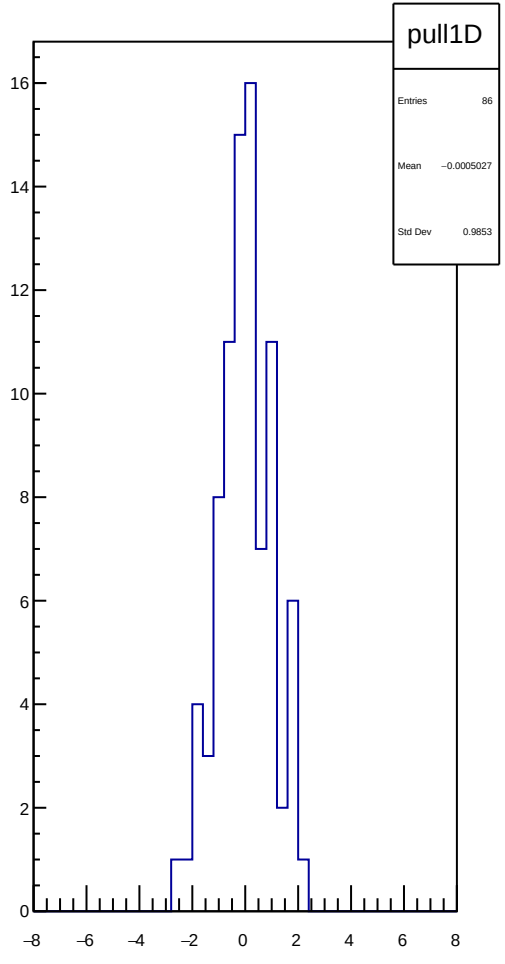

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.889e+05 / 85
p0 5.834e−11 ± 5.336e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

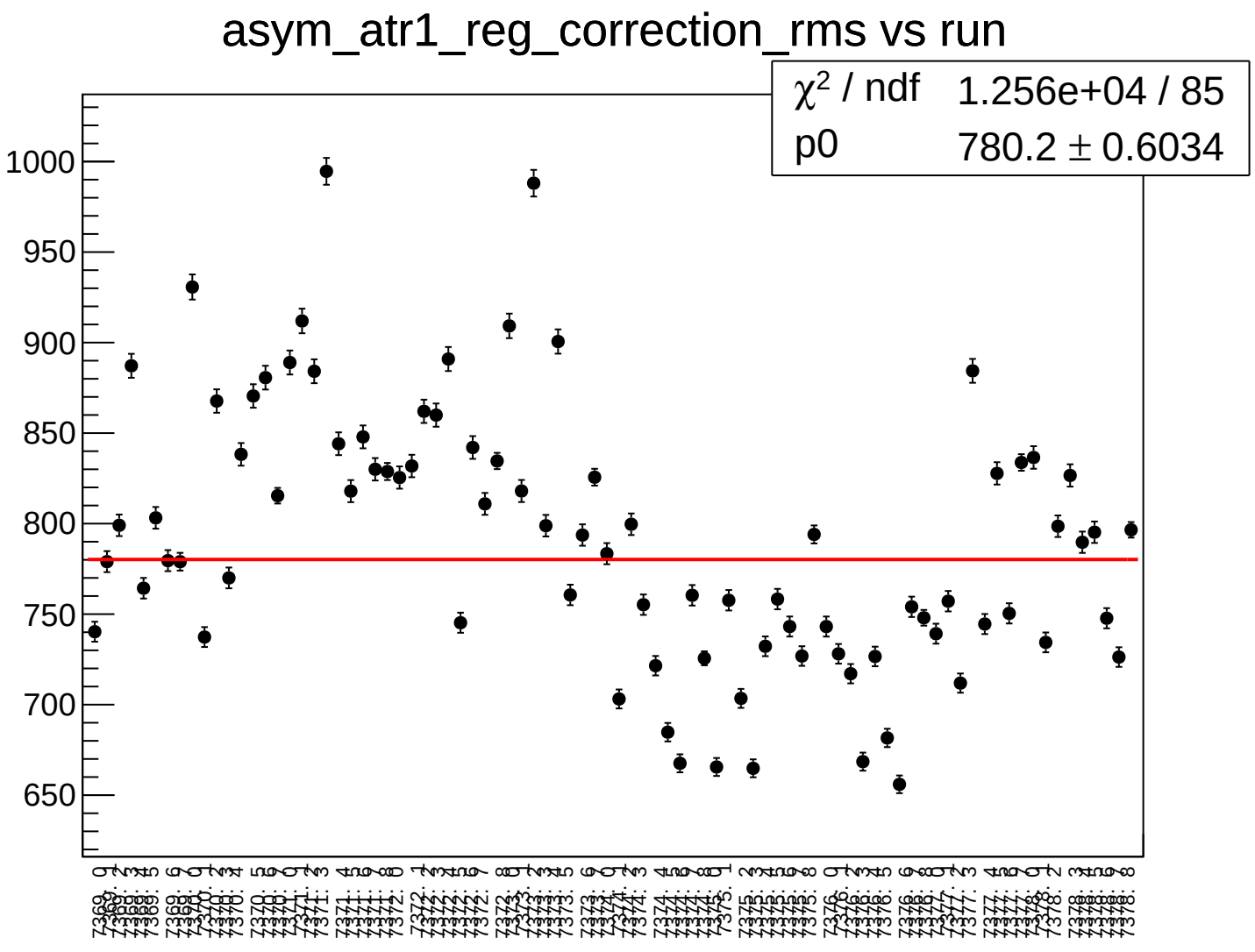

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 76.34 / 85
p0 −970.2 ± 3000
pull
Entries 86
Mean 227.6
Std Dev 0

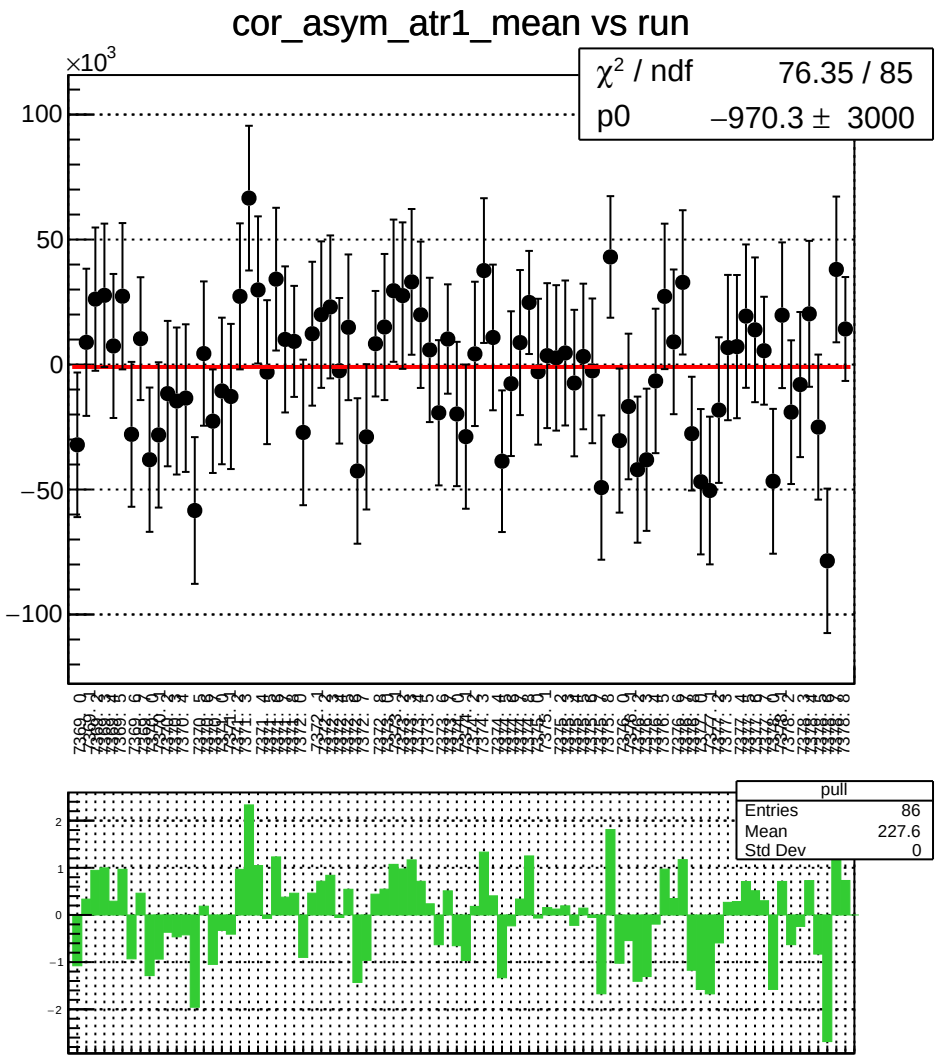

pull1D
Entries 86
Mean −0.01249
Std Dev 0.9421

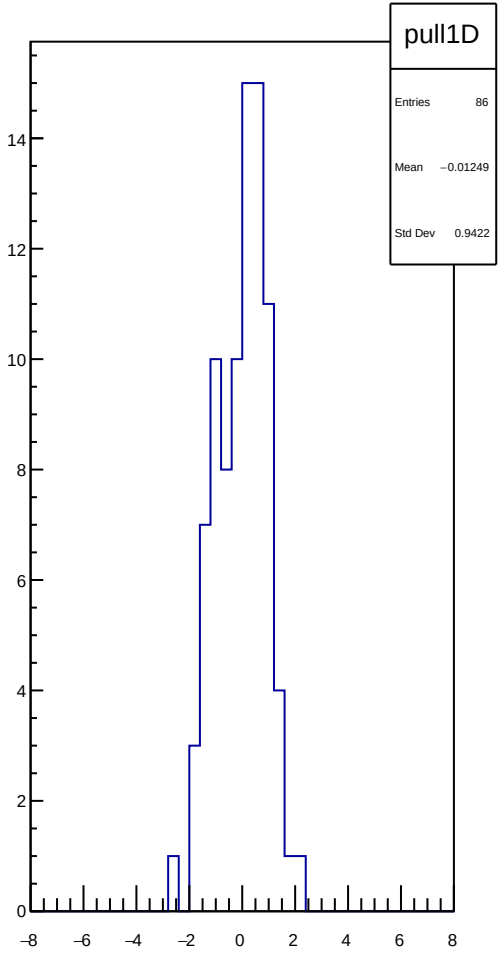

reg_asym_atr1_rms vs run
χ^2 / ndf 106.5 / 85
p0 2753 ± 2.122
2820
2800
2780
2760
2740
2720
2700
2680
2660

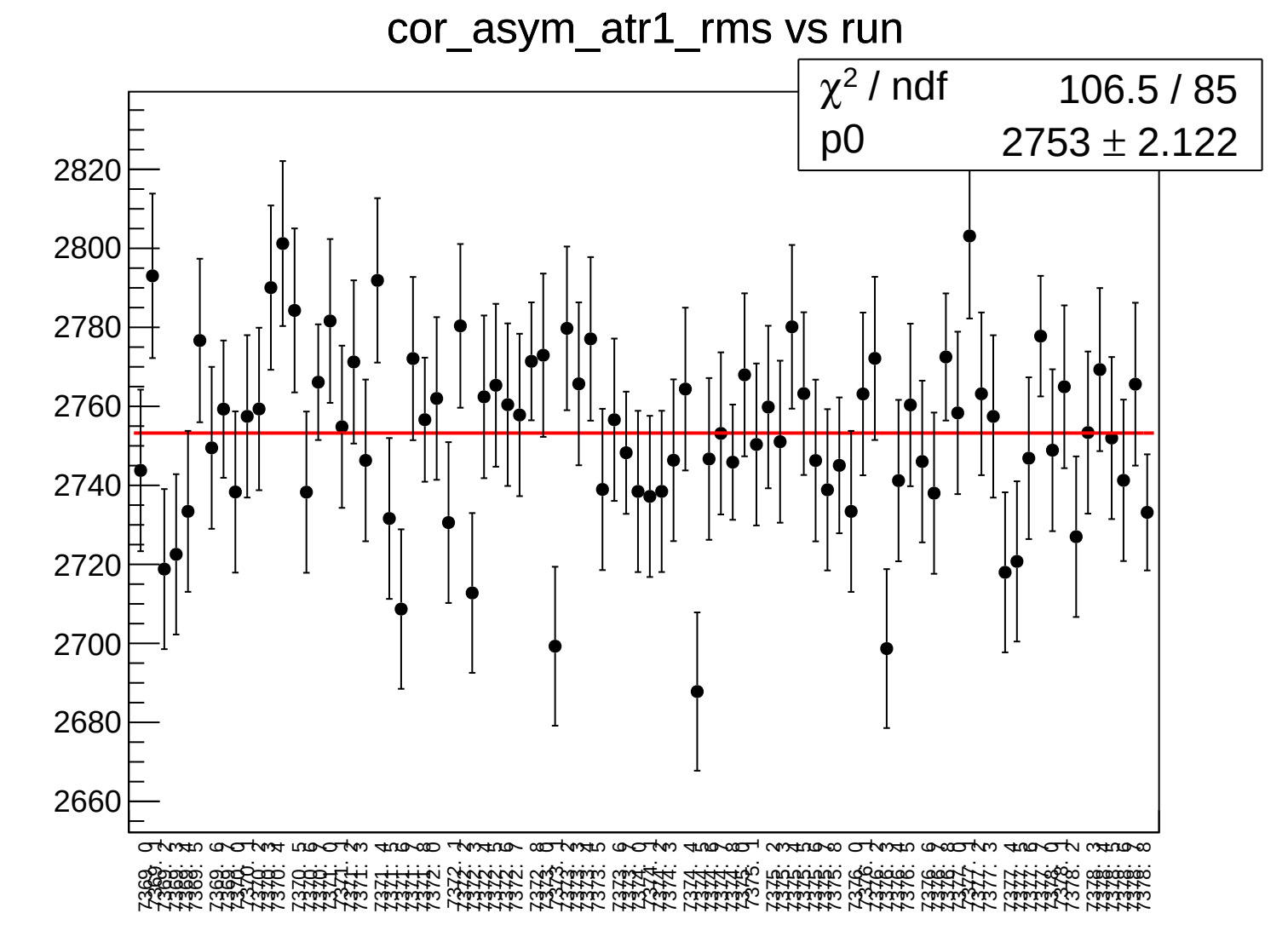

asym_atr1_reg_correction_mean vs run
χ² / ndf 83.48 / 85
p0 −533.6 ± 853.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 2976
Std Dev 0
2
1
0
−1
−2

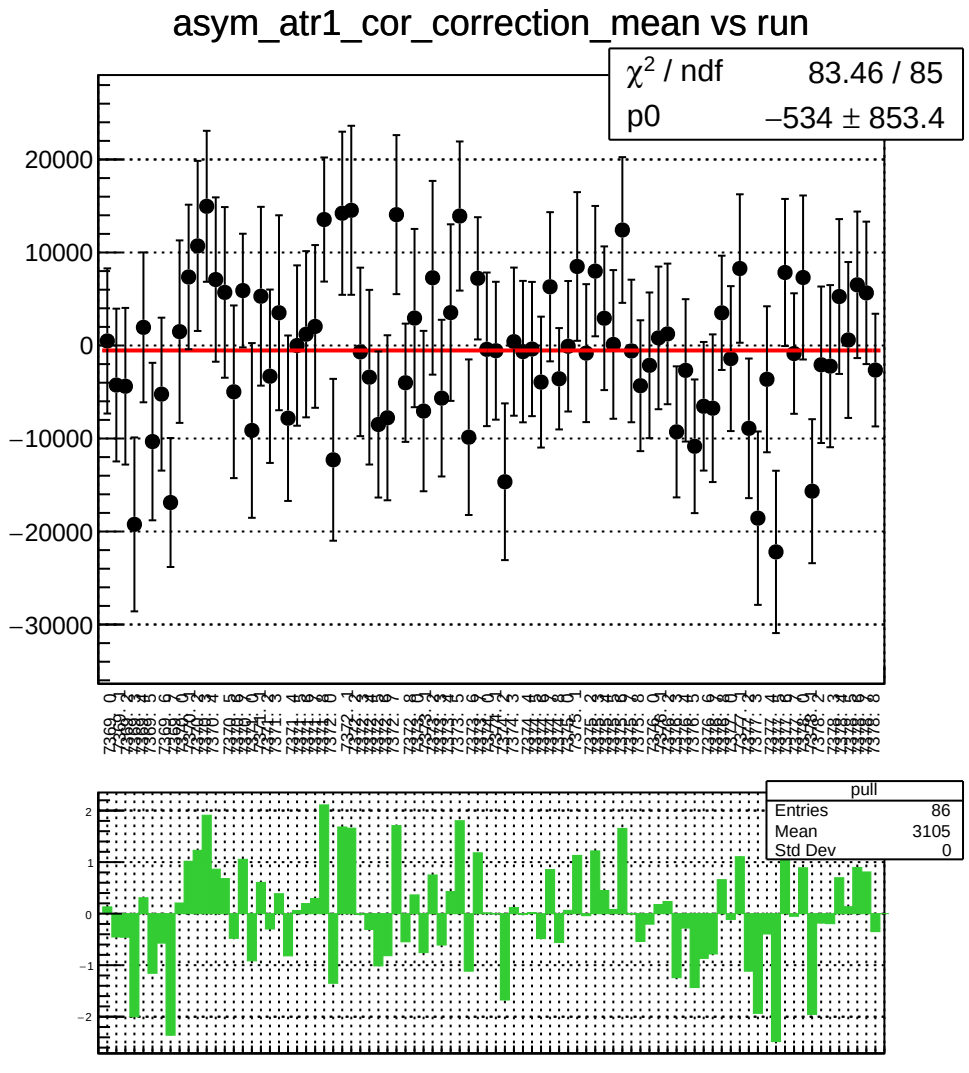

pull1D
Entries 86
Mean −0.0005027
Std Dev 0.9853
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

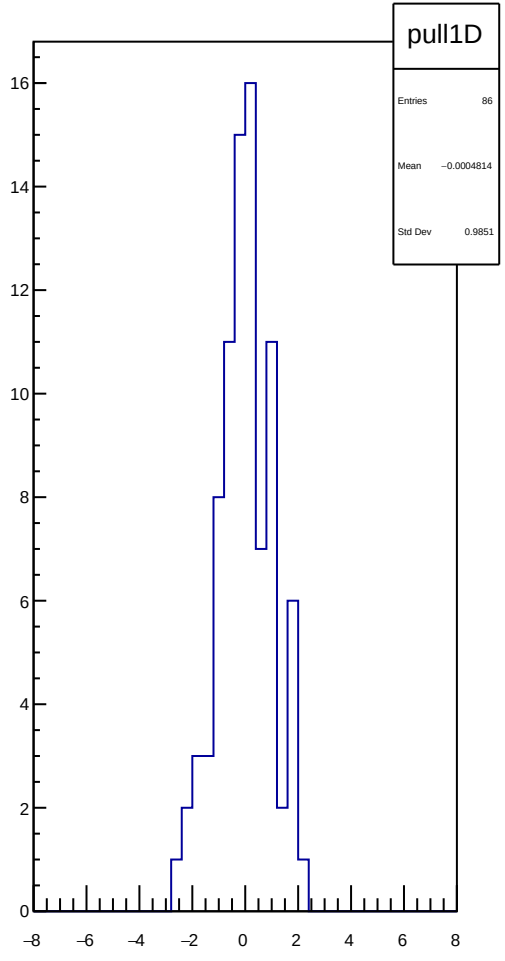

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.256e+04 / 85
p0 780.2 ± 0.6034
1000
950
900
850
800
750
700
650

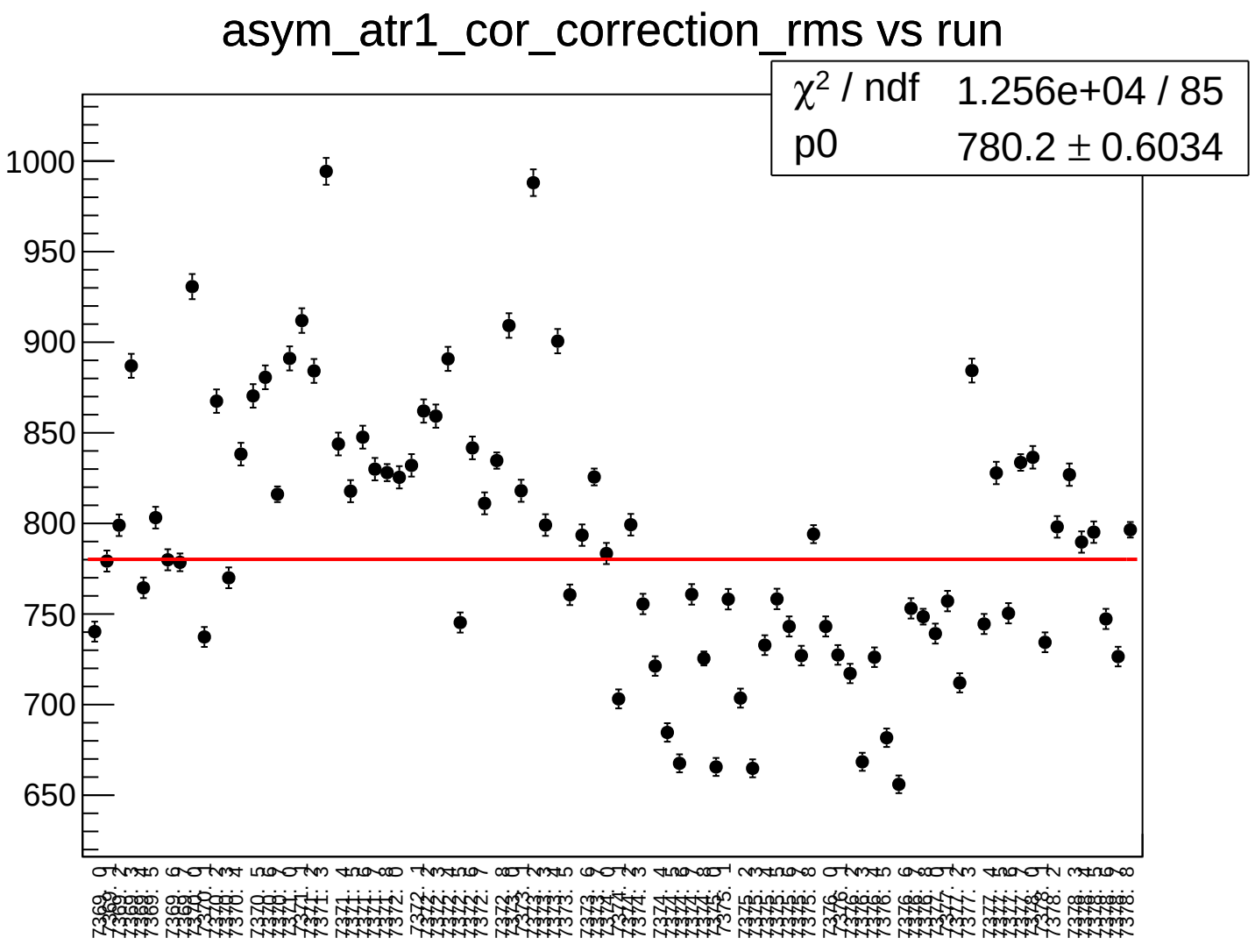

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 76.35 / 85
p0 −970.3 ± 3000
100
50
0
−50
−100
pull
Entries 86
Mean 227.6
Std Dev 0
2
1
0
−1
−2

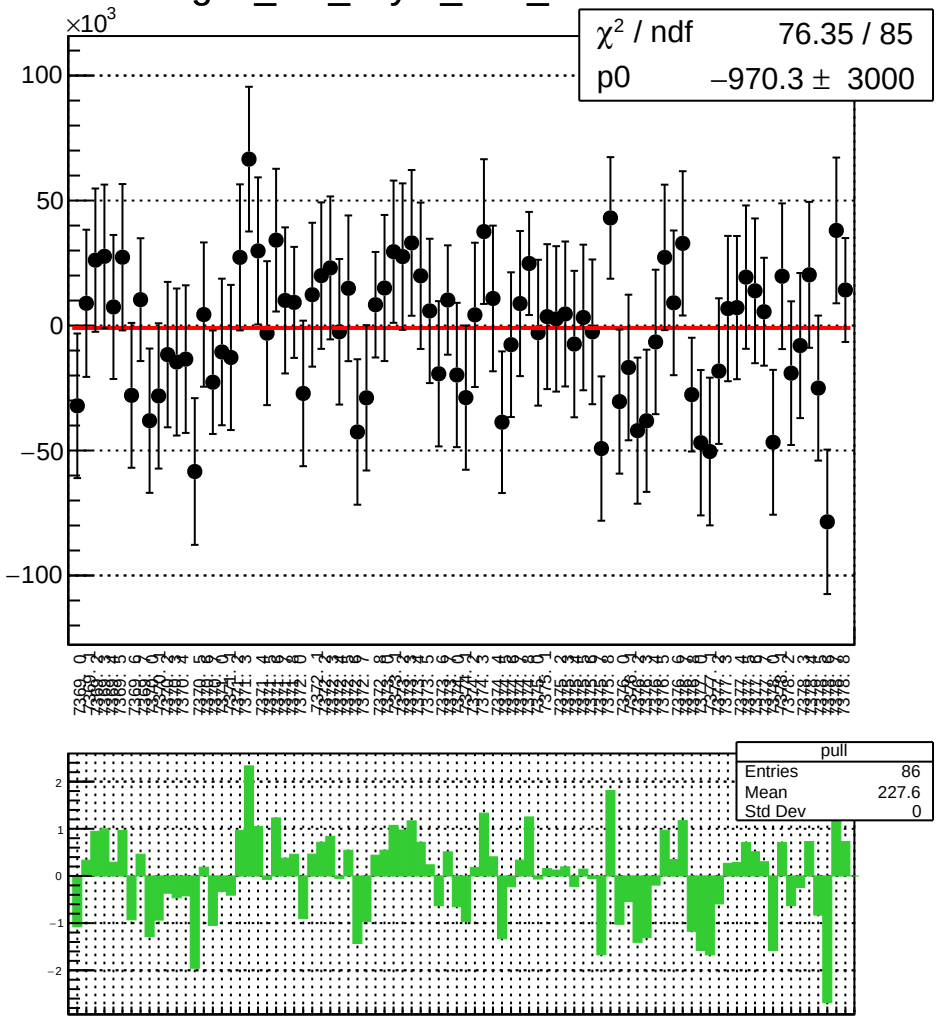

pull1D
Entries 86
Mean −0.01249
Std Dev 0.9422
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

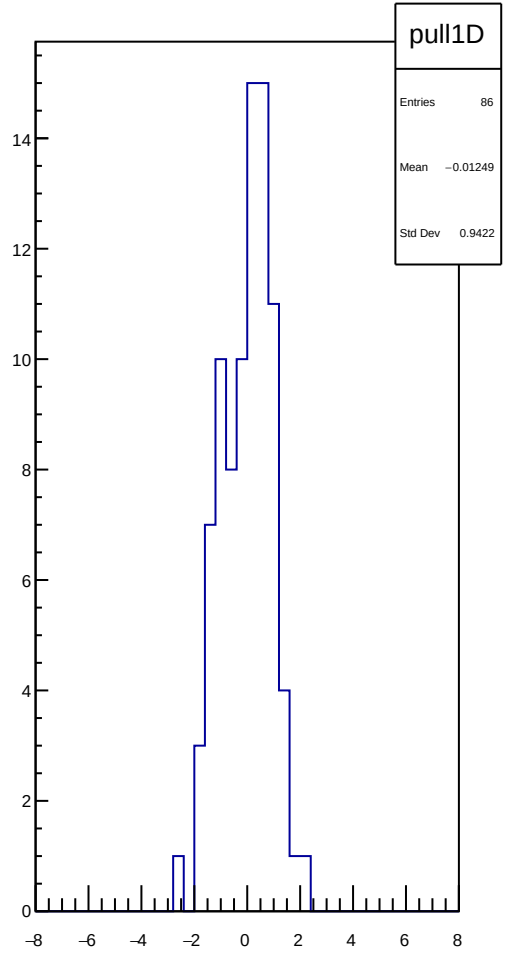

cor_asym_atr1_rms vs run
χ² / ndf 106.5 / 85
p0 2753 ± 2.122
2820
2800
2780
2760
2740
2720
2700
2680
2660

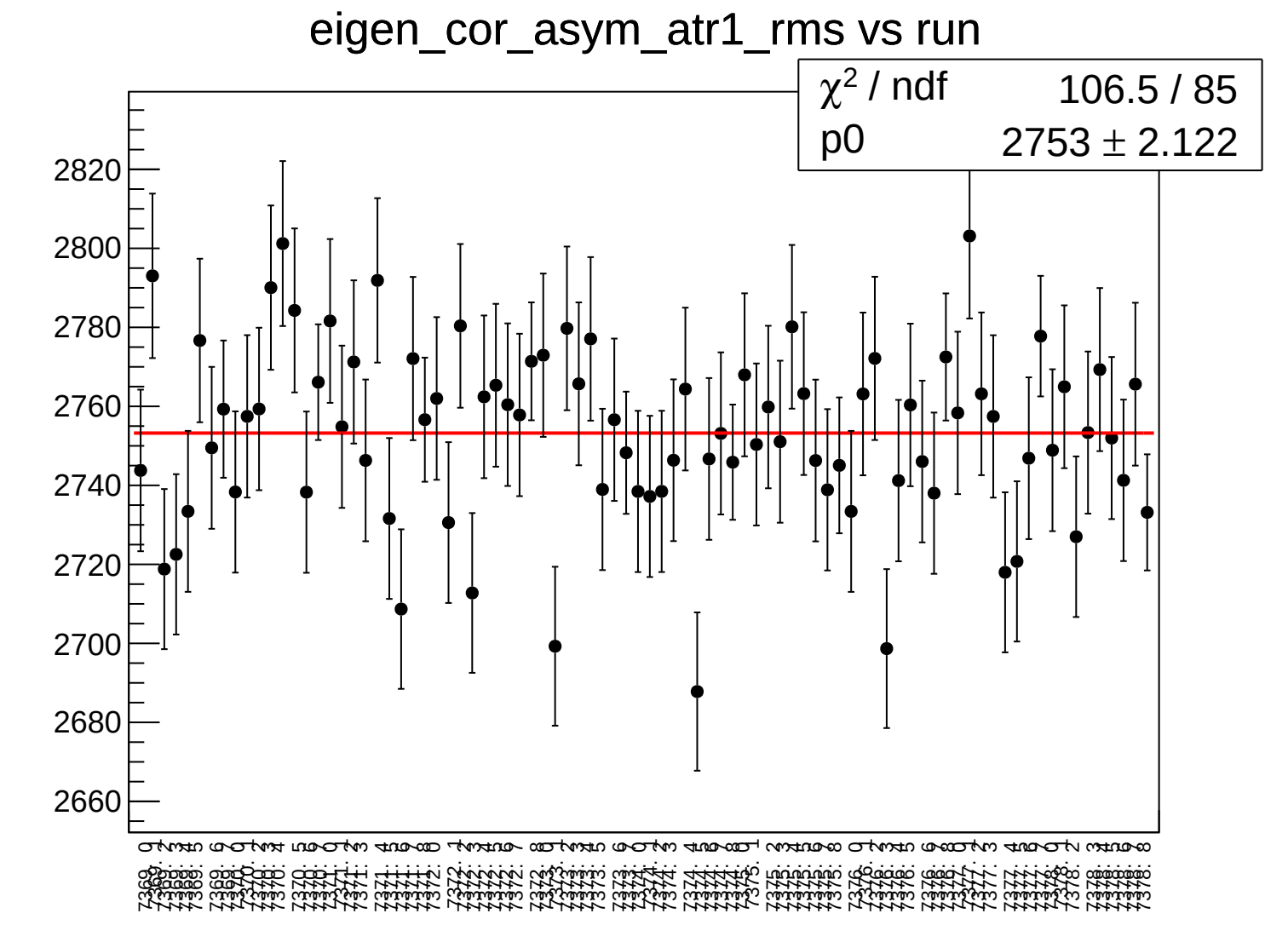

asym_atr1_cor_correction_mean vs run
χ² / ndf 83.46 / 85
p0 −534 ± 853.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 3105
Std Dev 0
2
1
0
−1
−2

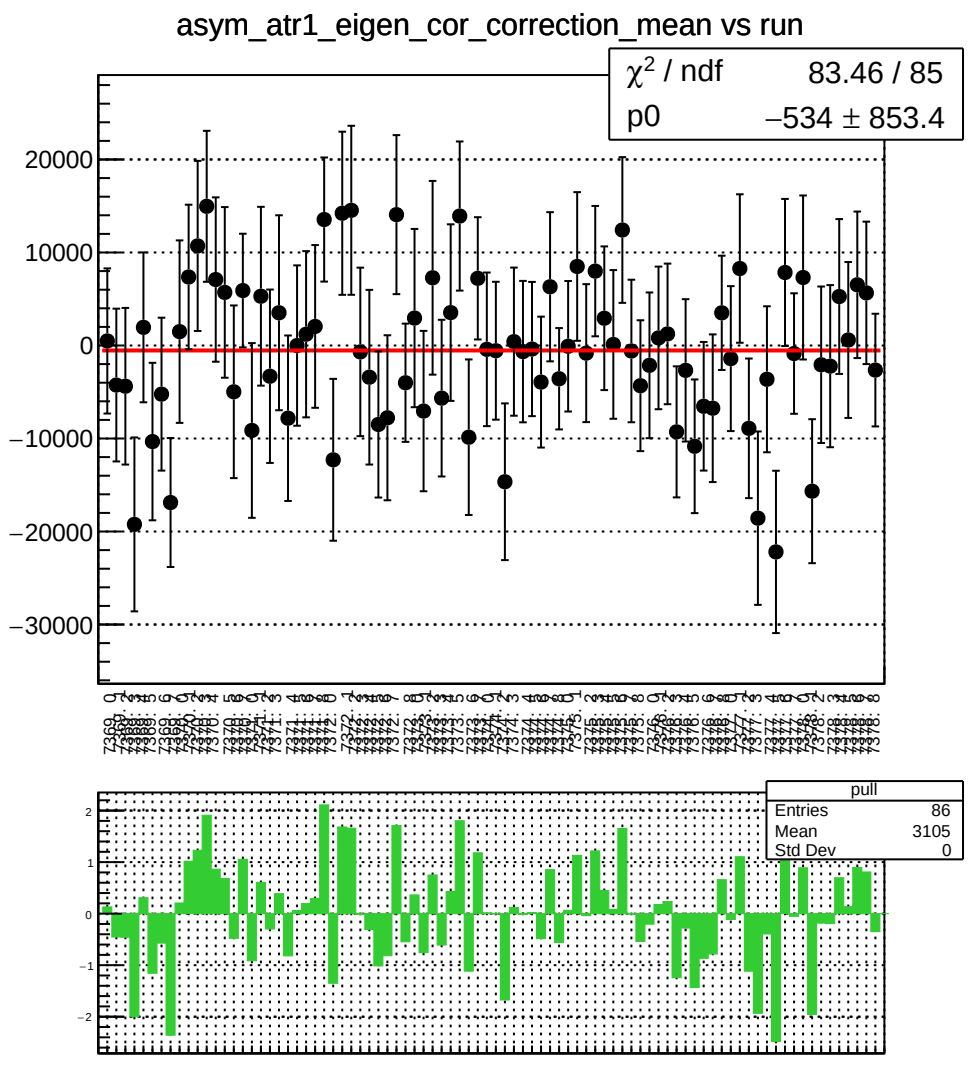

pull1D
Entries 86
Mean −0.0004814
Std Dev 0.9851
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

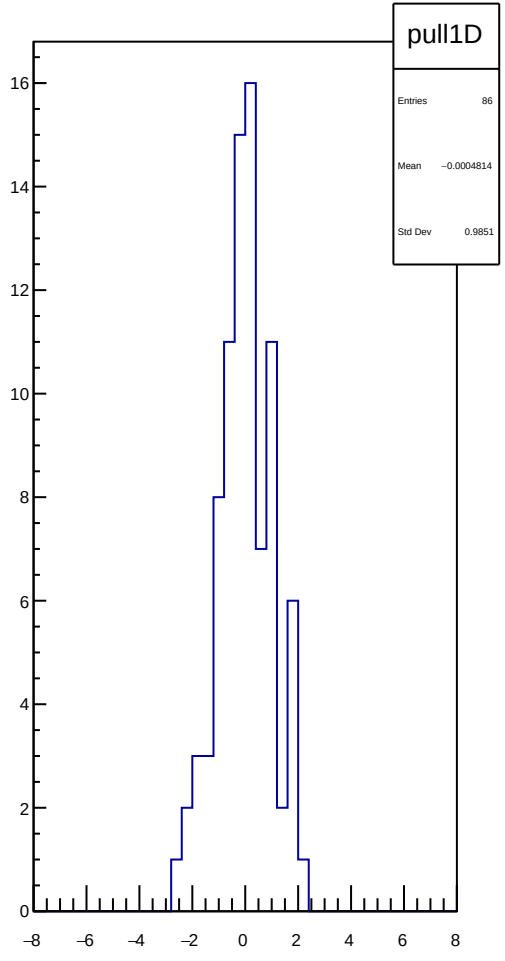

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.256e+04 / 85
p0 780.2 ± 0.6034
1000
950
900
850
800
750
700
650

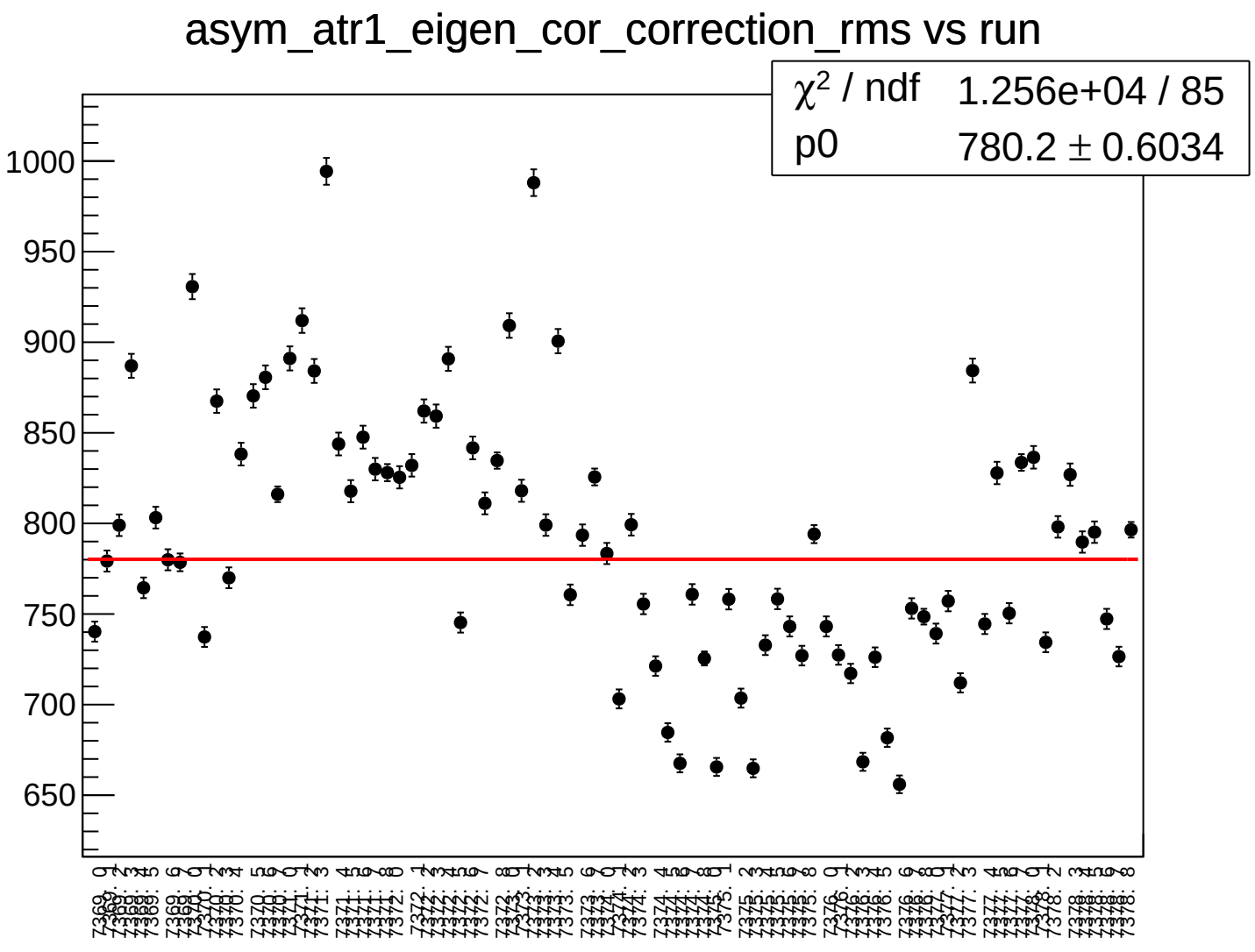

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 76.35 / 85
p0 −970.3 ± 3000
100
50
0
−50
−100
pull
Entries 86
Mean 227.6
Std Dev 0
2
1
0
−1
−2

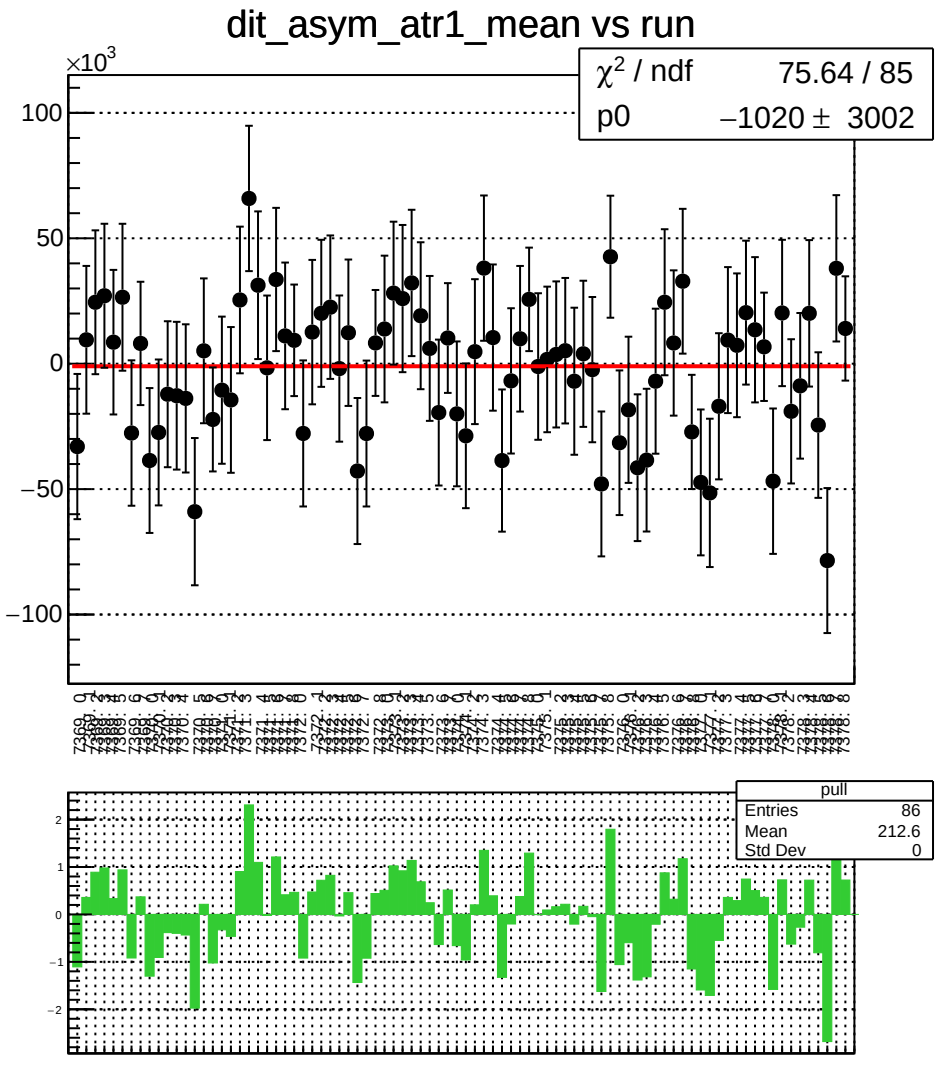

pull1D
Entries 86
Mean −0.01249
Std Dev 0.9422
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

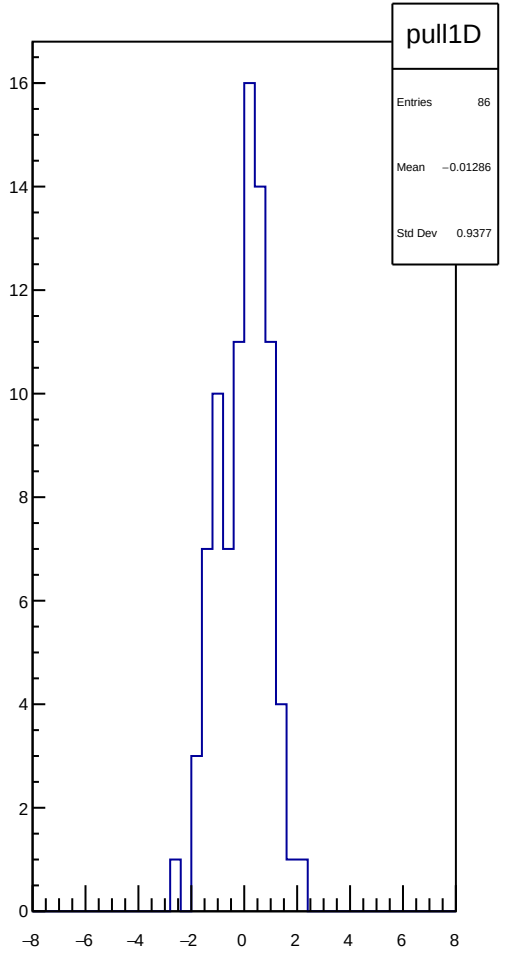

eigen_cor_asym_atr1_rms vs run
χ² / ndf 106.5 / 85
p0 2753 ± 2.122
2820
2800
2780
2760
2740
2720
2700
2680
2660

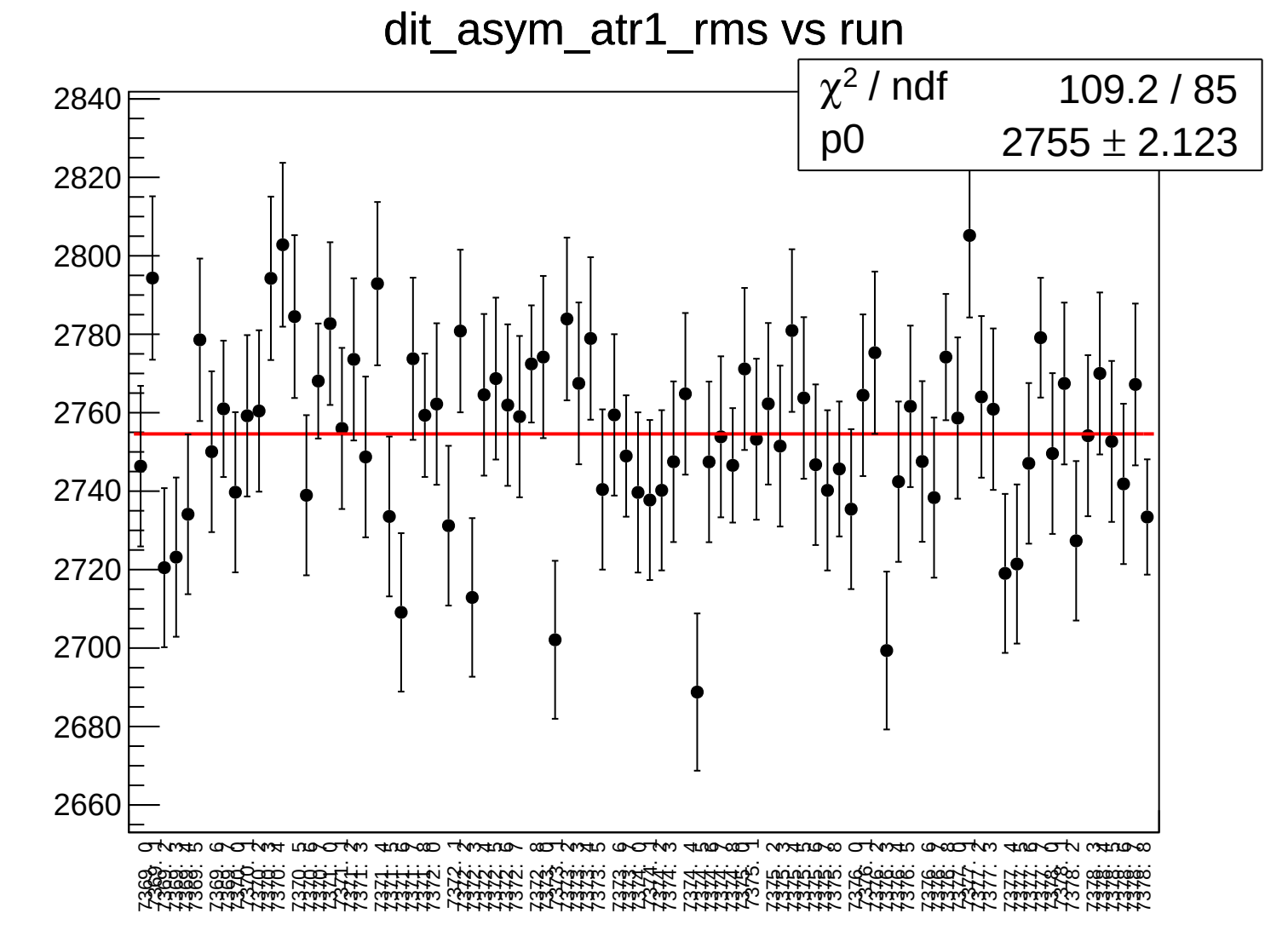

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 83.46 / 85
p0 −534 ± 853.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 3105
Std Dev 0
2
1
0
−1
−2

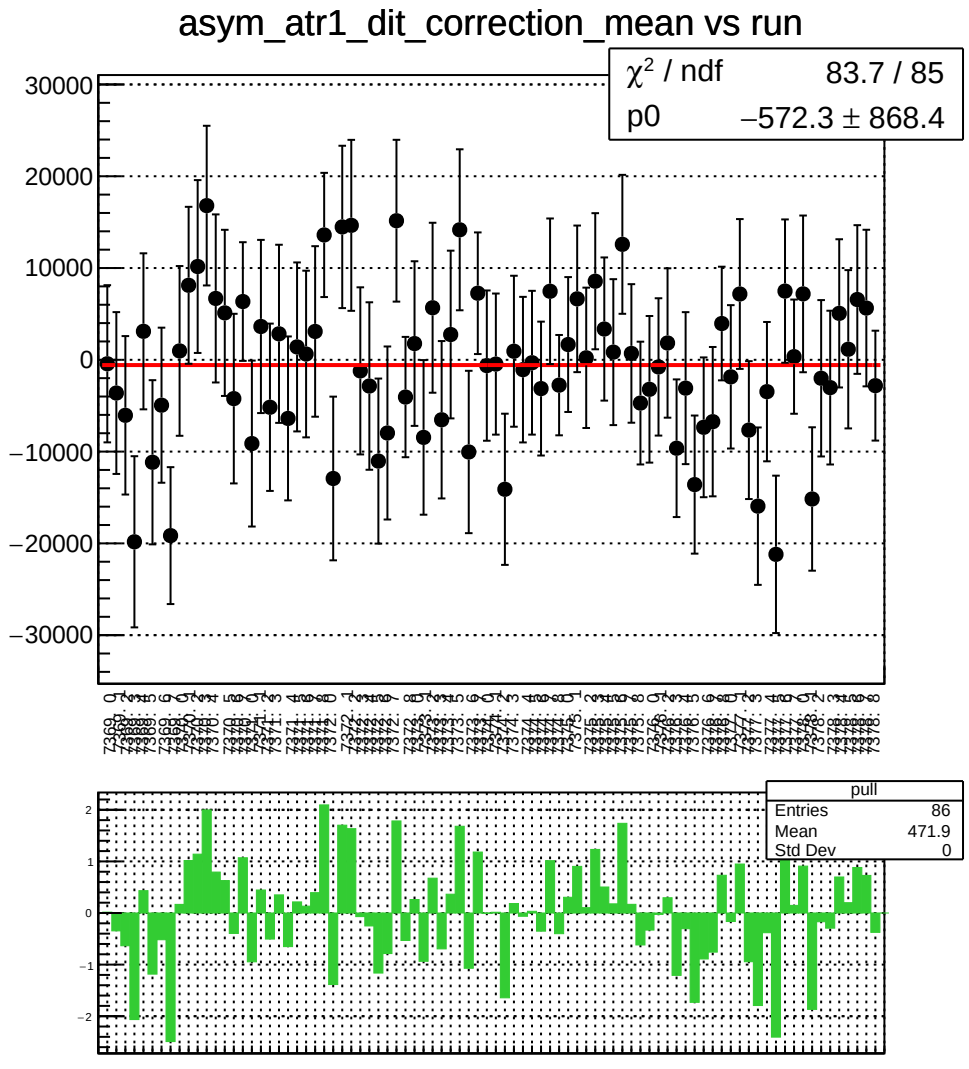

pull1D
Entries 86
Mean −0.0004814
Std Dev 0.9851
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

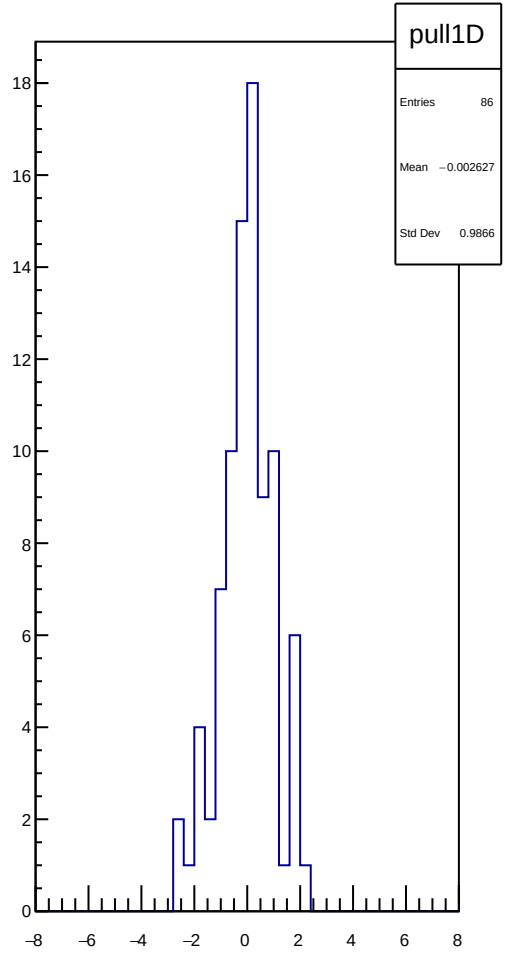

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.256e+04 / 85
p0 780.2 ± 0.6034
1000
950
900
850
800
750
700
650

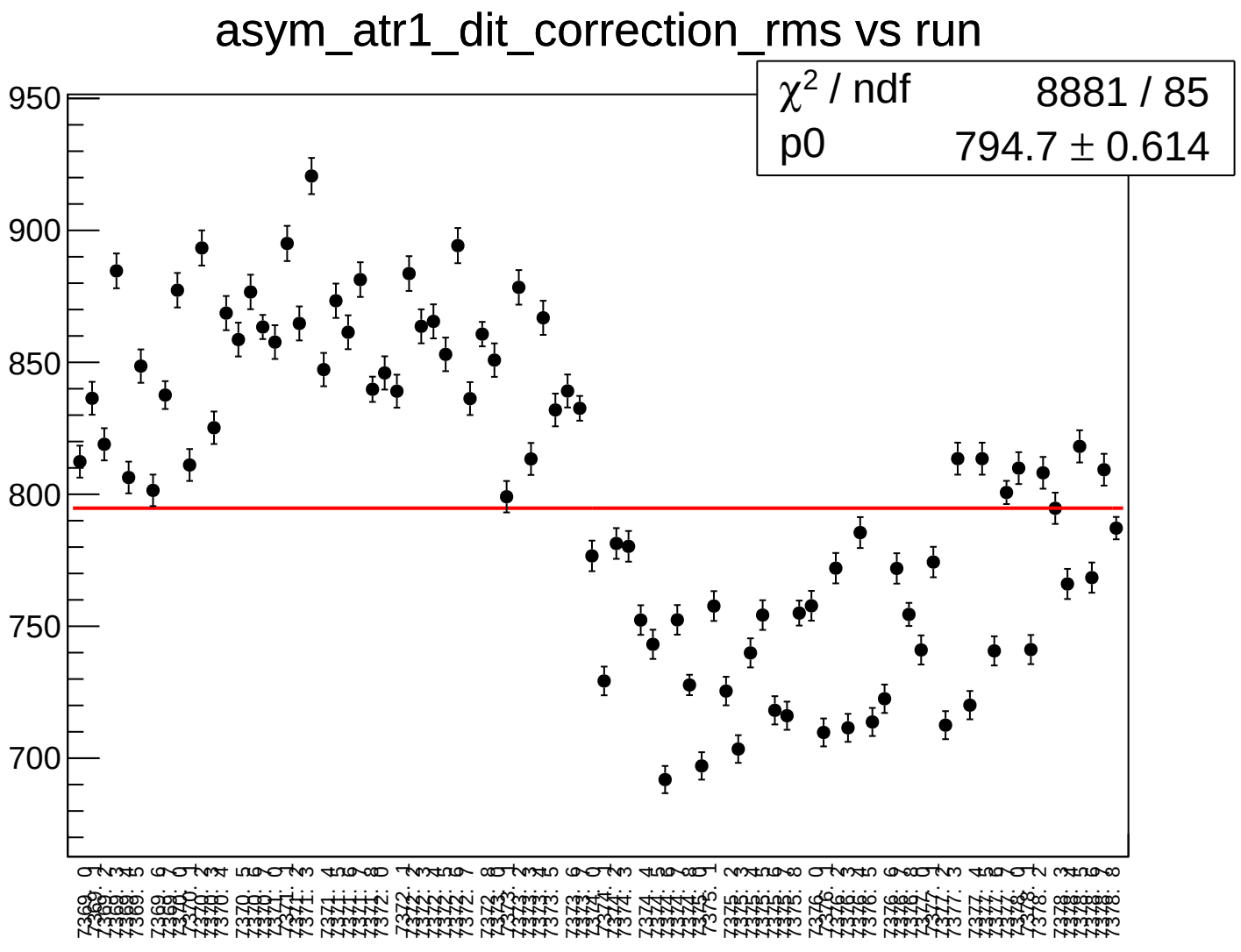

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 75.64 / 85
p0 −1020 ± 3002
100
50
0
−50
−100
pull
Entries 86
Mean 212.6
Std Dev 0
2
1
0
−1
−2

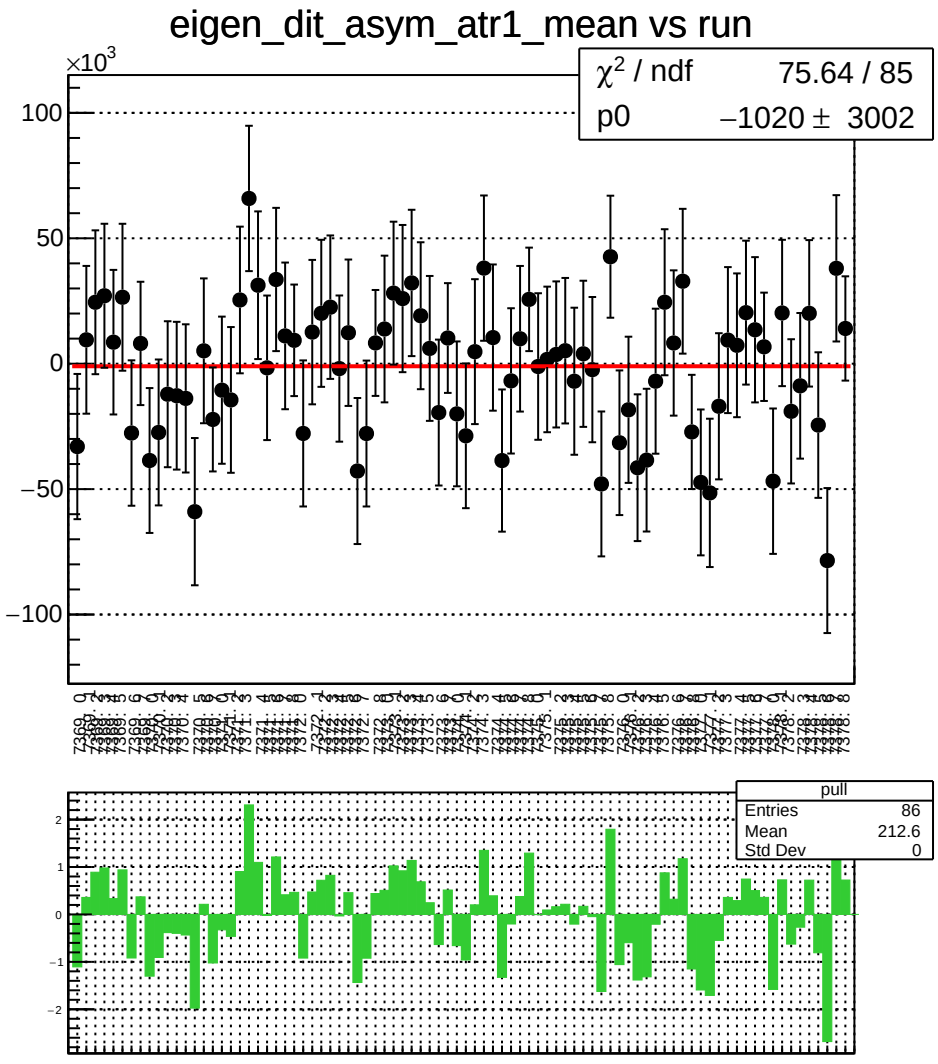

pull1D
Entries 86
Mean −0.01286
Std Dev 0.9377
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

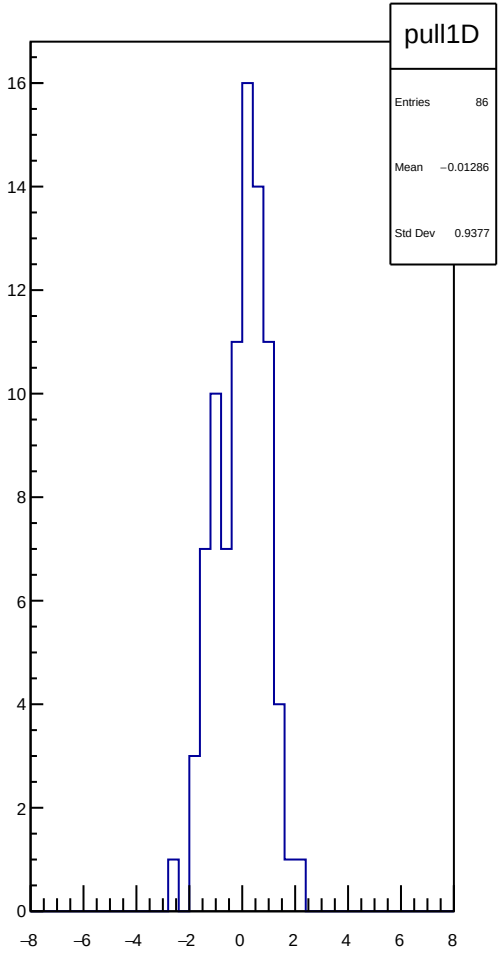

dit_asym_atr1_rms vs run
χ^2 / ndf 109.2 / 85
p0 2755 ± 2.123
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660

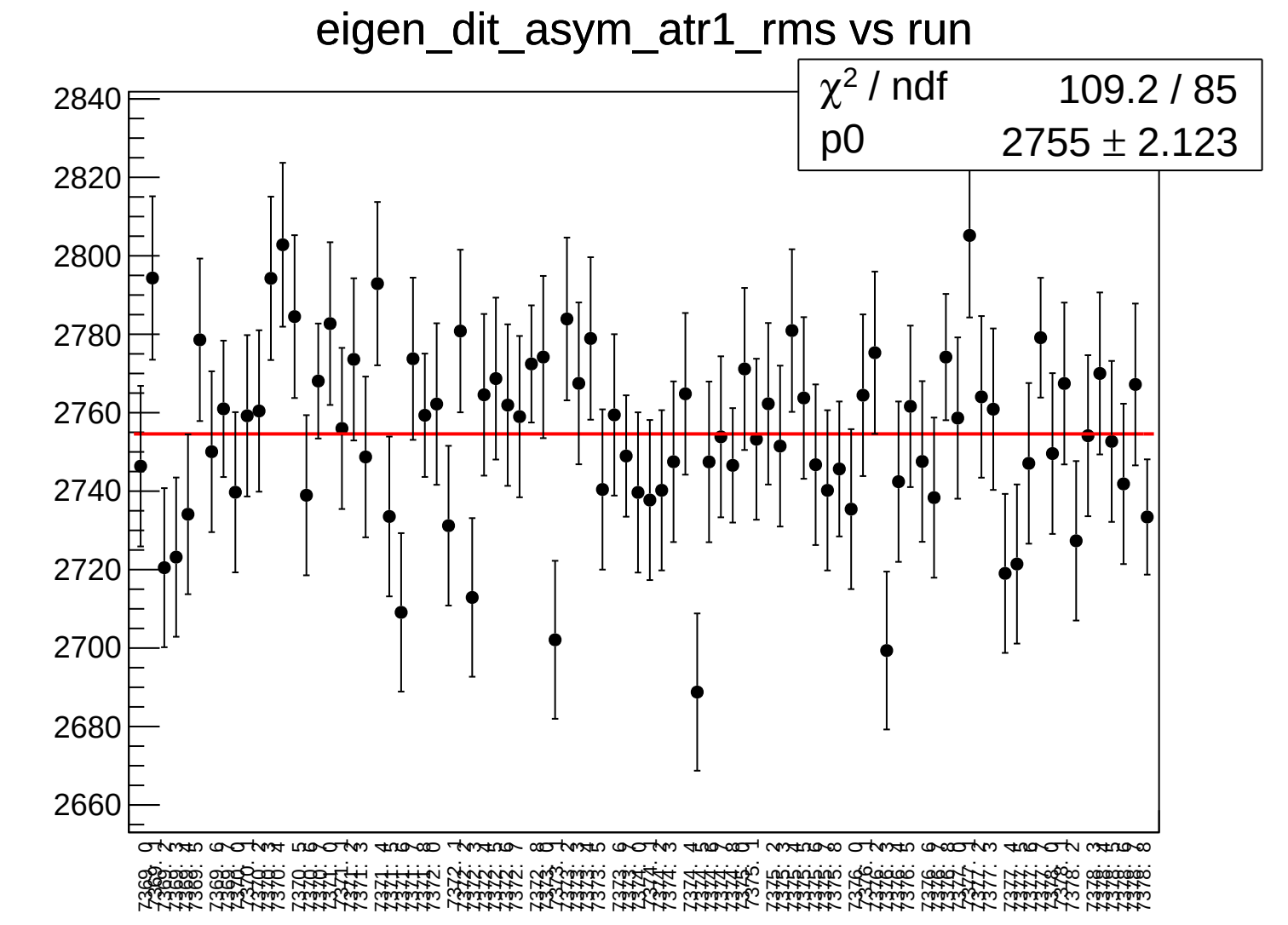

asym_atr1_dit_correction_mean vs run
χ² / ndf 83.7 / 85
p0 −572.3 ± 868.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 471.9
Std Dev 0
2
1
0
−1
−2

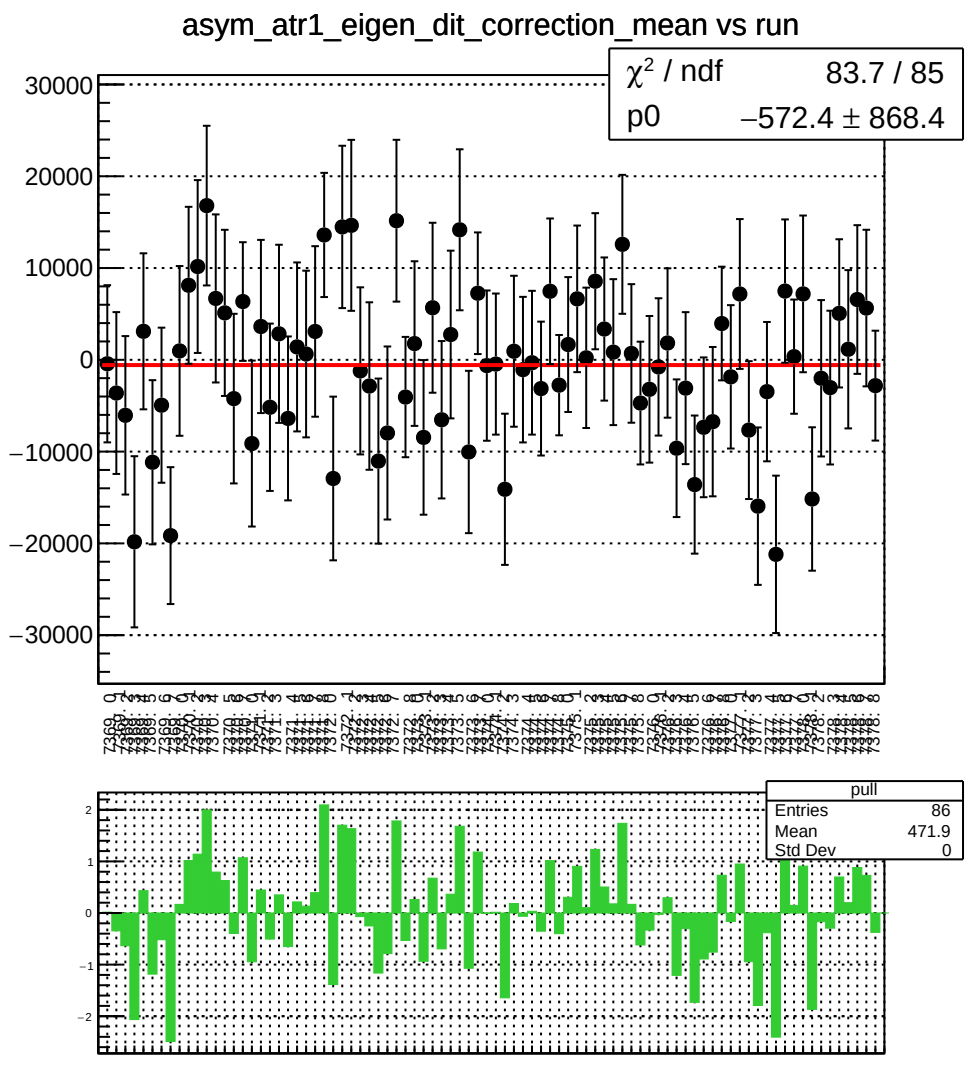

pull1D
Entries 86
Mean −0.002627
Std Dev 0.9866
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

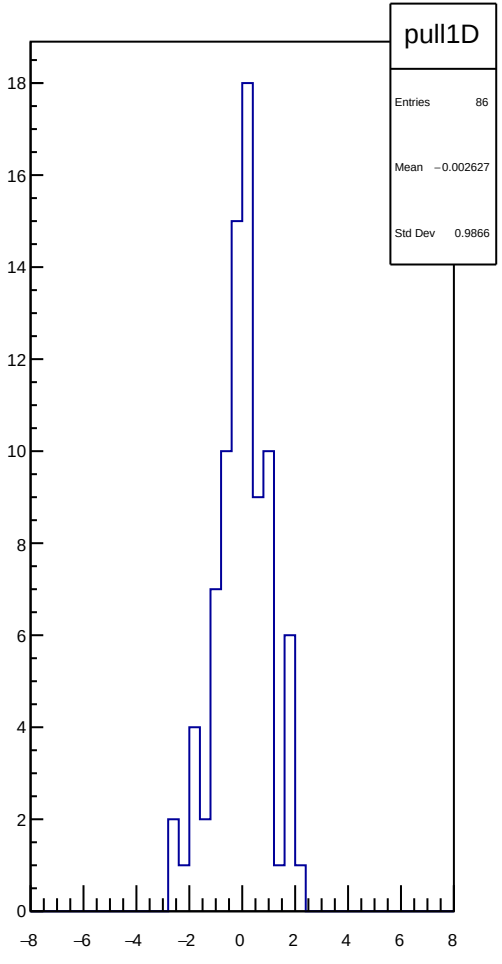

asym_atr1_dit_correction_rms vs run
χ² / ndf 8881 / 85
p0 794.7 ± 0.614
950
900
850
800
750
700

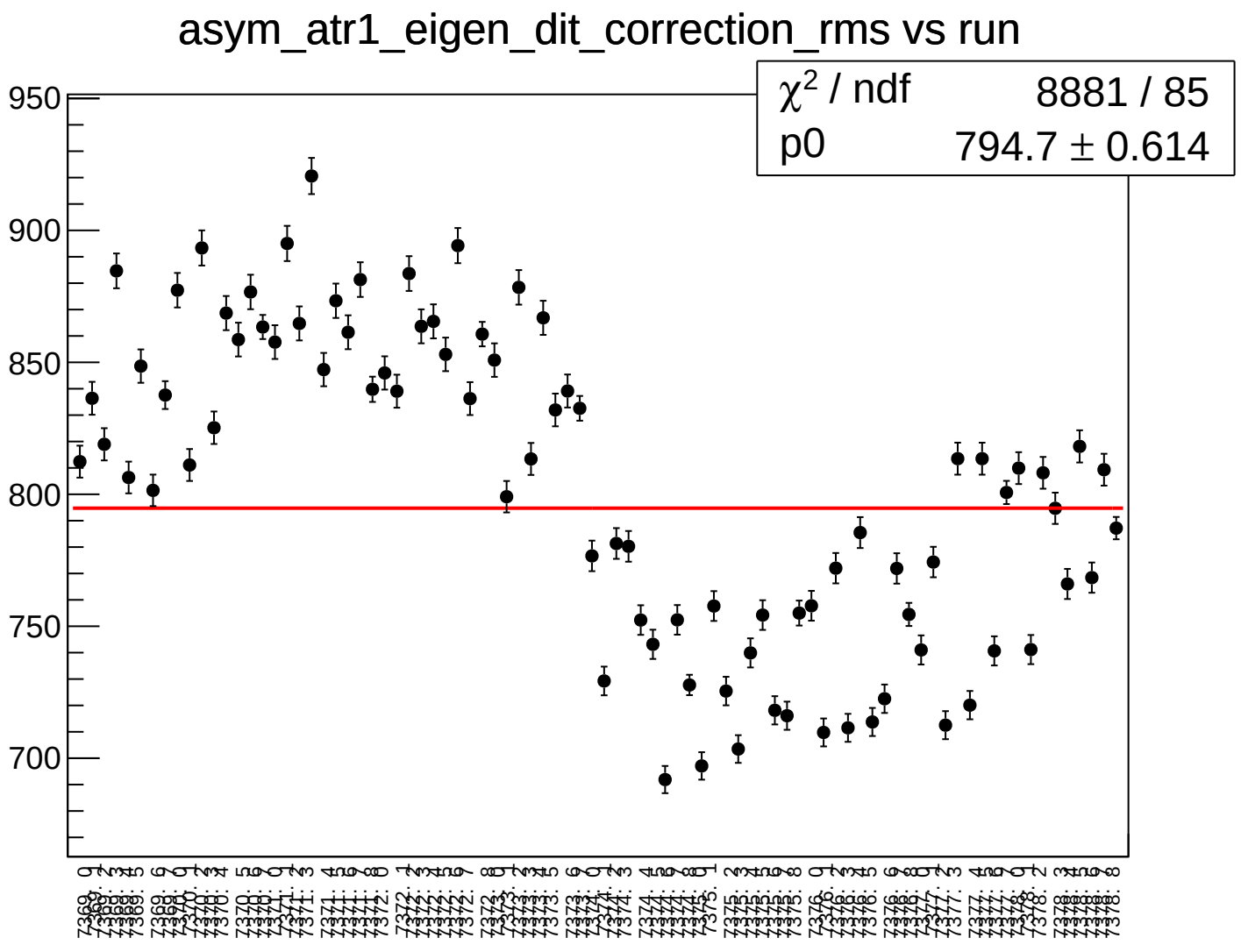

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 75.64 / 85
p0 −1020 ± 3002
pull
Entries 86
Mean 212.6
Std Dev 0

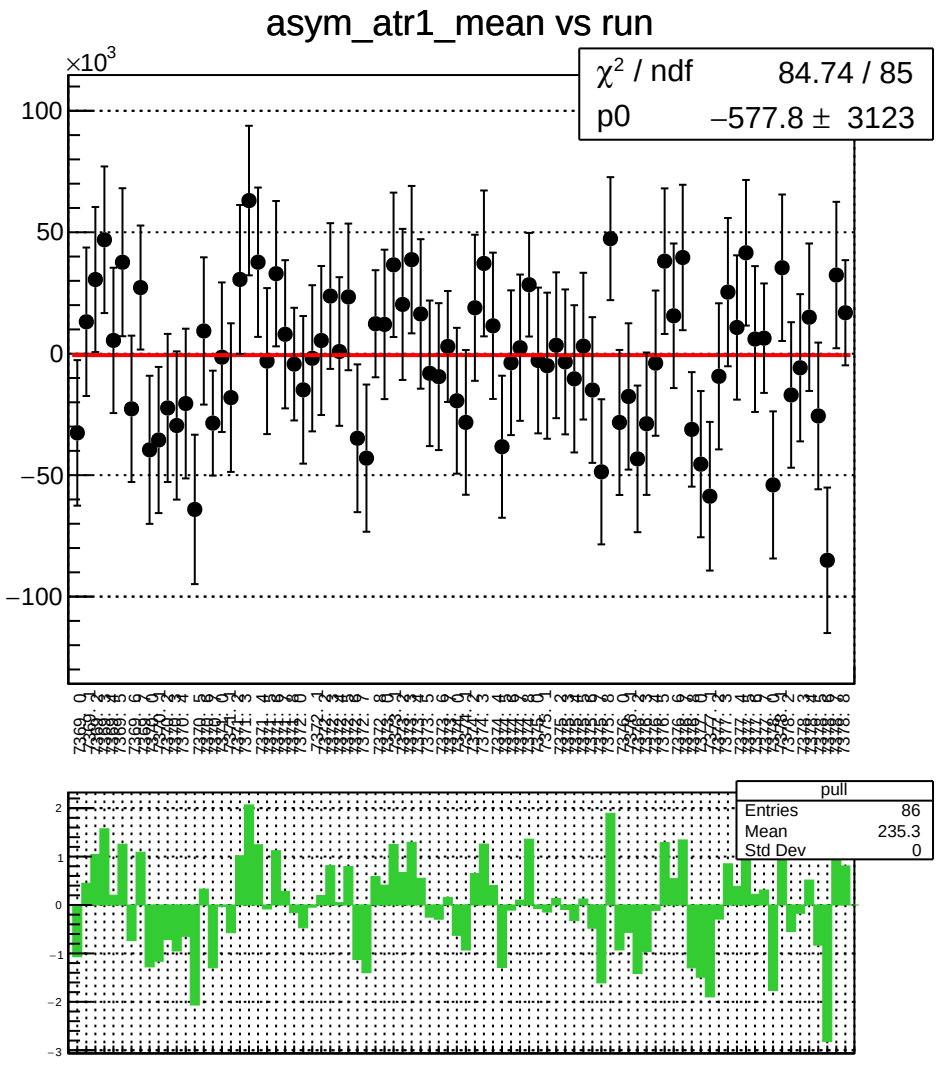

pull1D
Entries 86
Mean −0.01286
Std Dev 0.9377

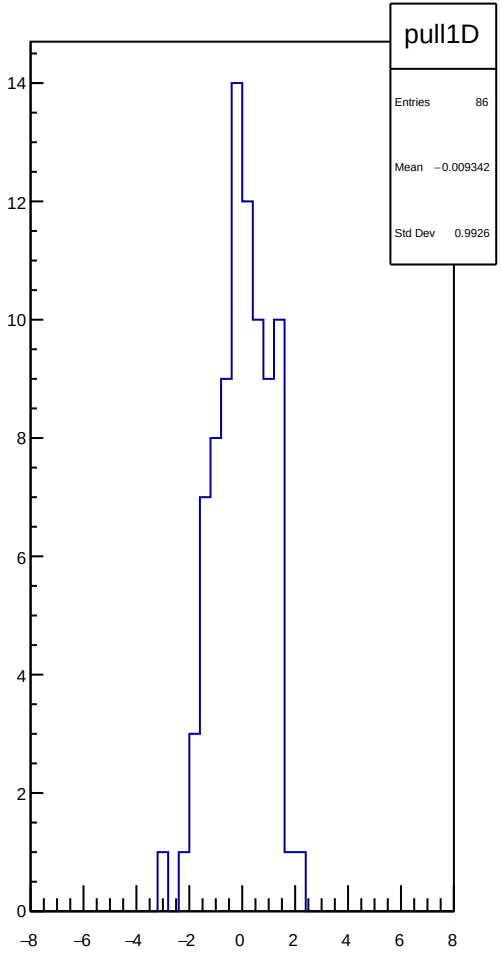

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 109.2 / 85
p0 2755 ± 2.123
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660

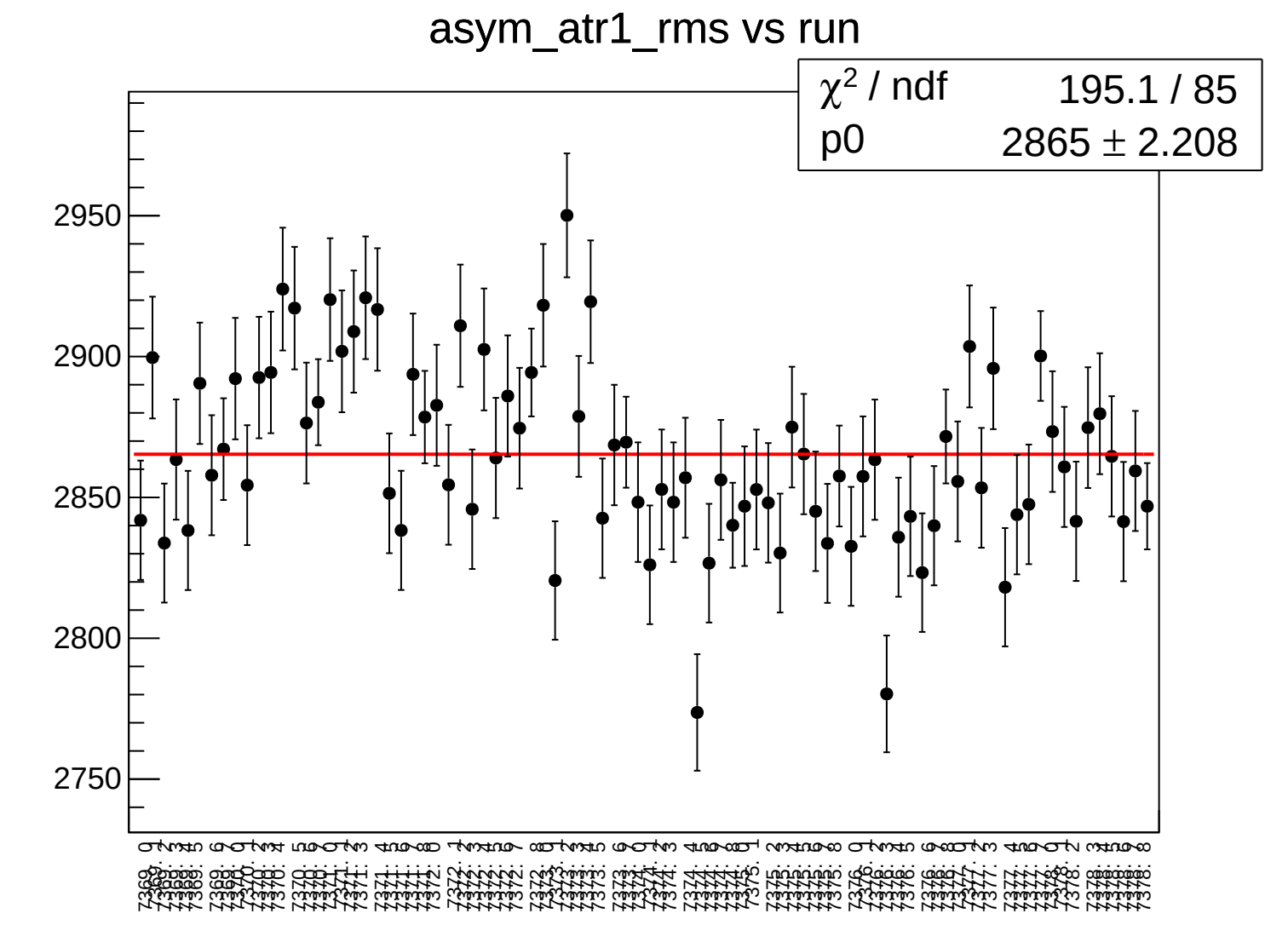

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 83.7 / 85
p0 −572.4 ± 868.4
pull
Entries 86
Mean 471.9
Std Dev 0

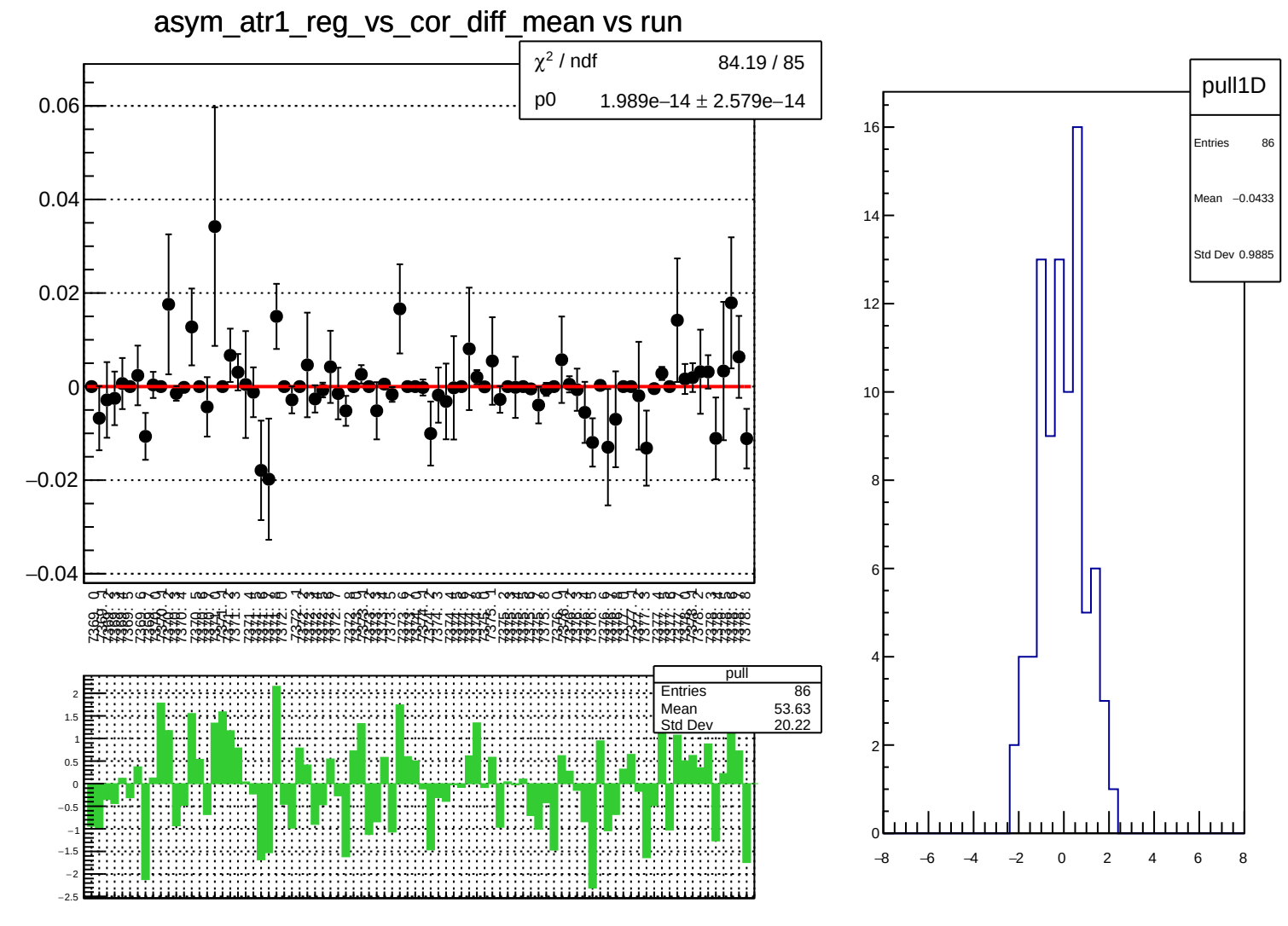

pull1D
Entries 86
Mean −0.002627
Std Dev 0.9866

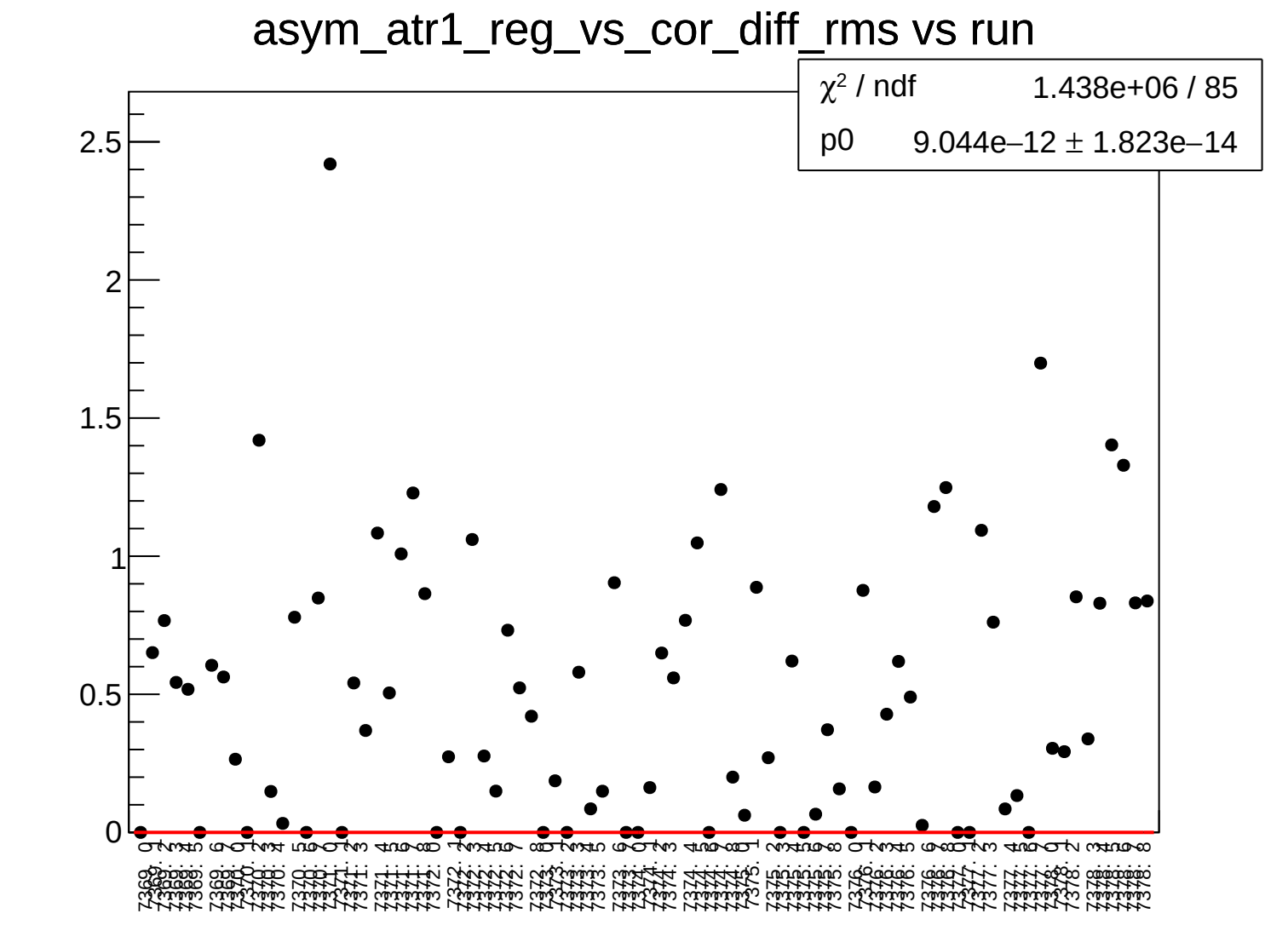

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 8881 / 85
p0 794.7 ± 0.614
950
900
850
800
750
700

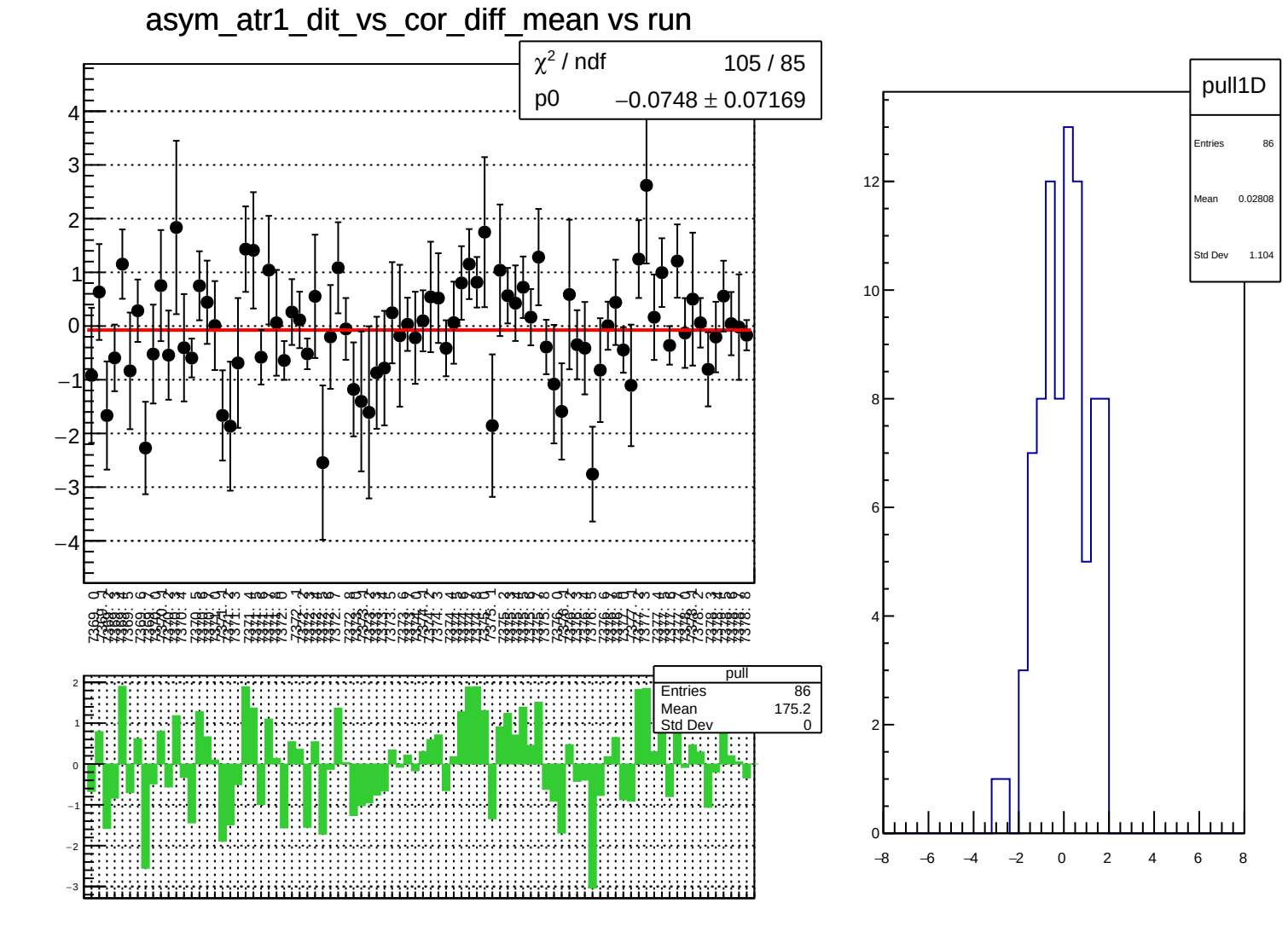

asym_atr1_mean vs run
×10^3
χ² / ndf 84.74 / 85
p0 −577.8 ± 3123
pull
Entries 86
Mean 235.3
Std Dev 0

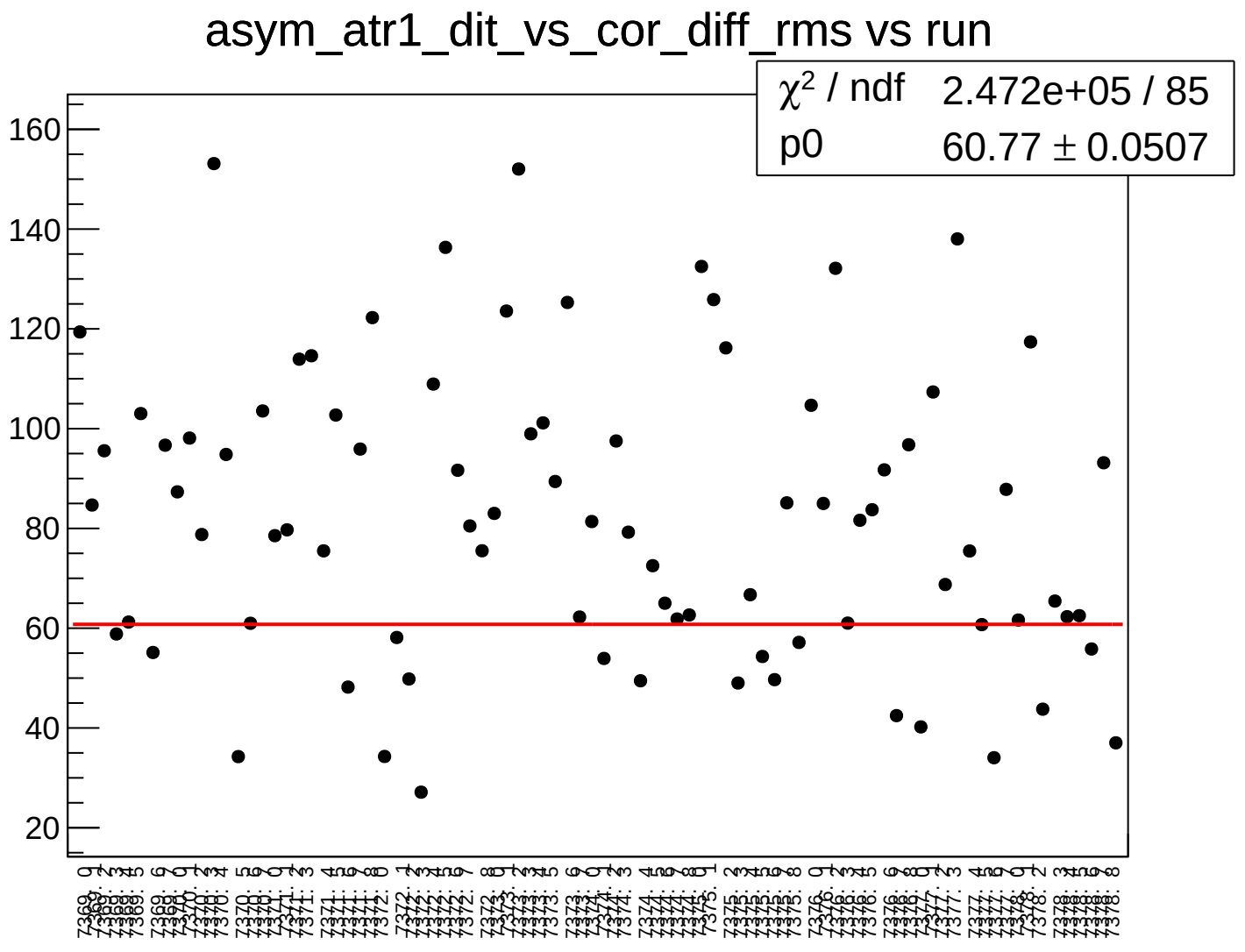

pull1D
Entries 86
Mean −0.009342
Std Dev 0.9926

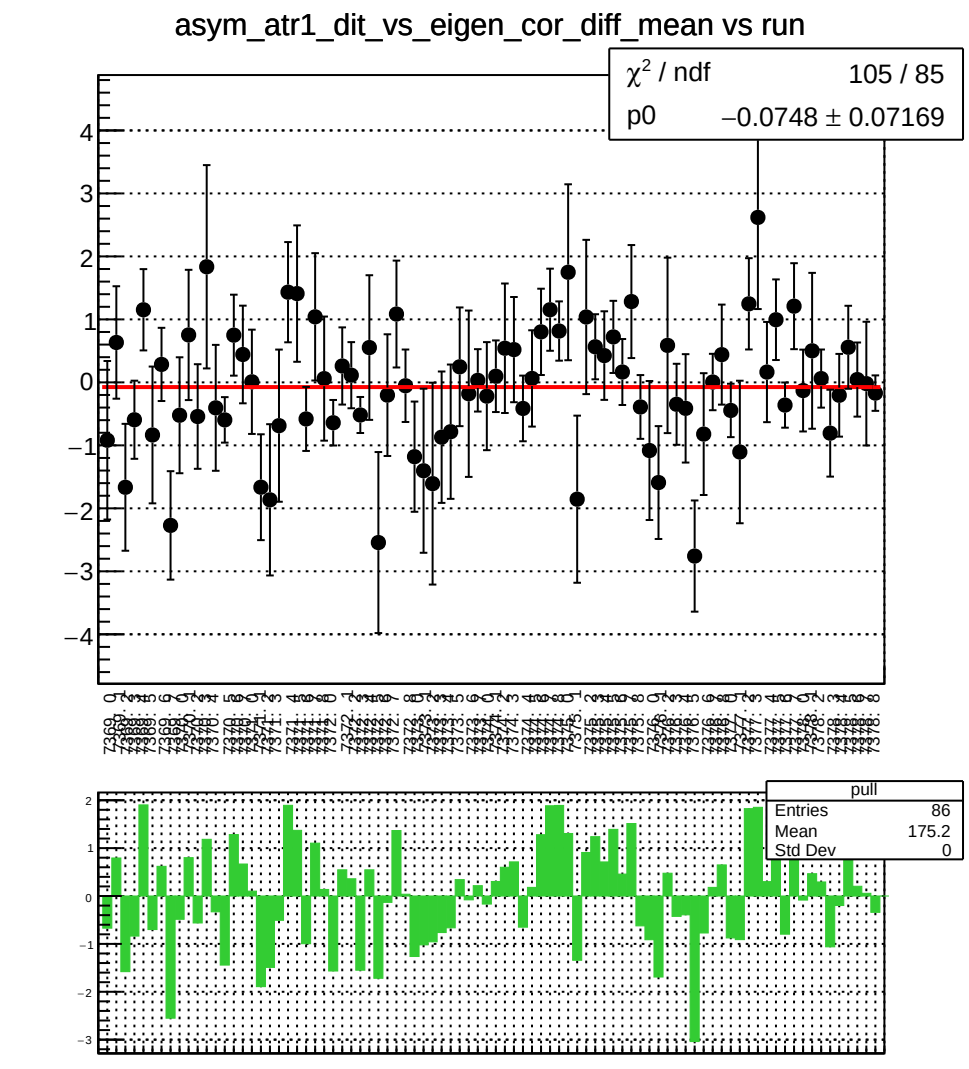

asym_atr1_rms vs run
χ^2 / ndf 195.1 / 85
p0 2865 ± 2.208
2950
2900
2850
2800
2750

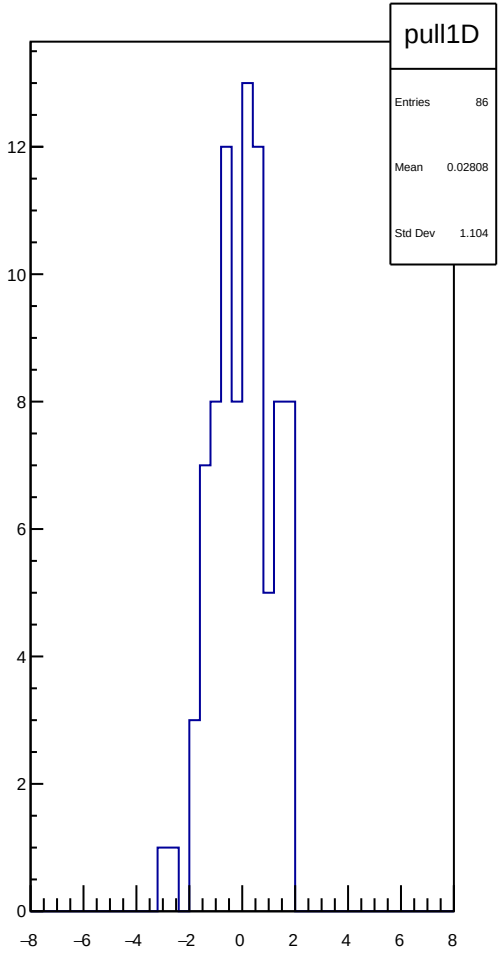

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 84.19 / 85
p0 1.989e−14 ± 2.579e−14
pull
Entries 86
Mean 53.63
Std Dev 20.22
pull1D
Entries 86
Mean −0.0433
Std Dev 0.9885

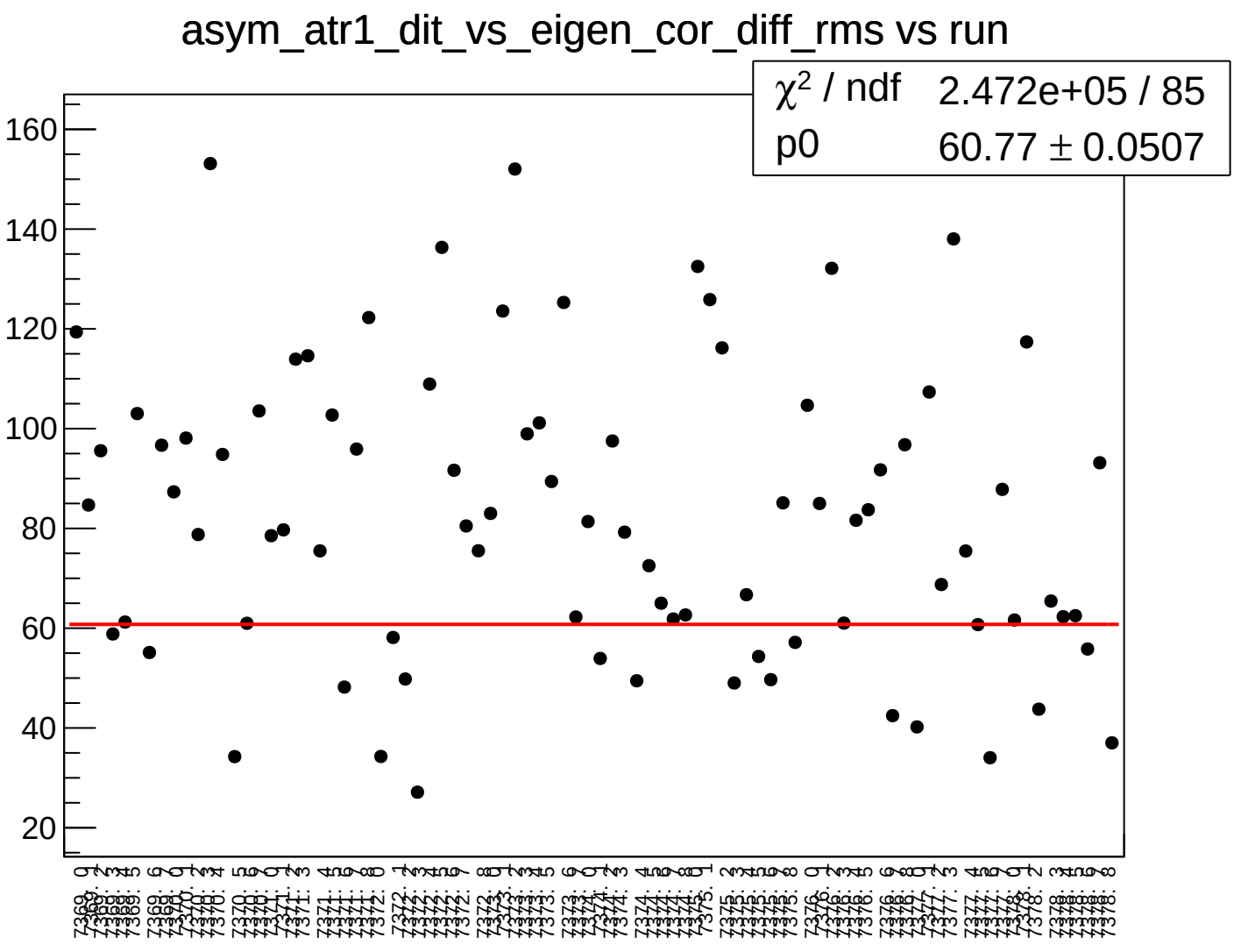

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.438e+06 / 85
p0 9.044e−12 ± 1.823e−14
2.5
2
1.5
1
0.5
0

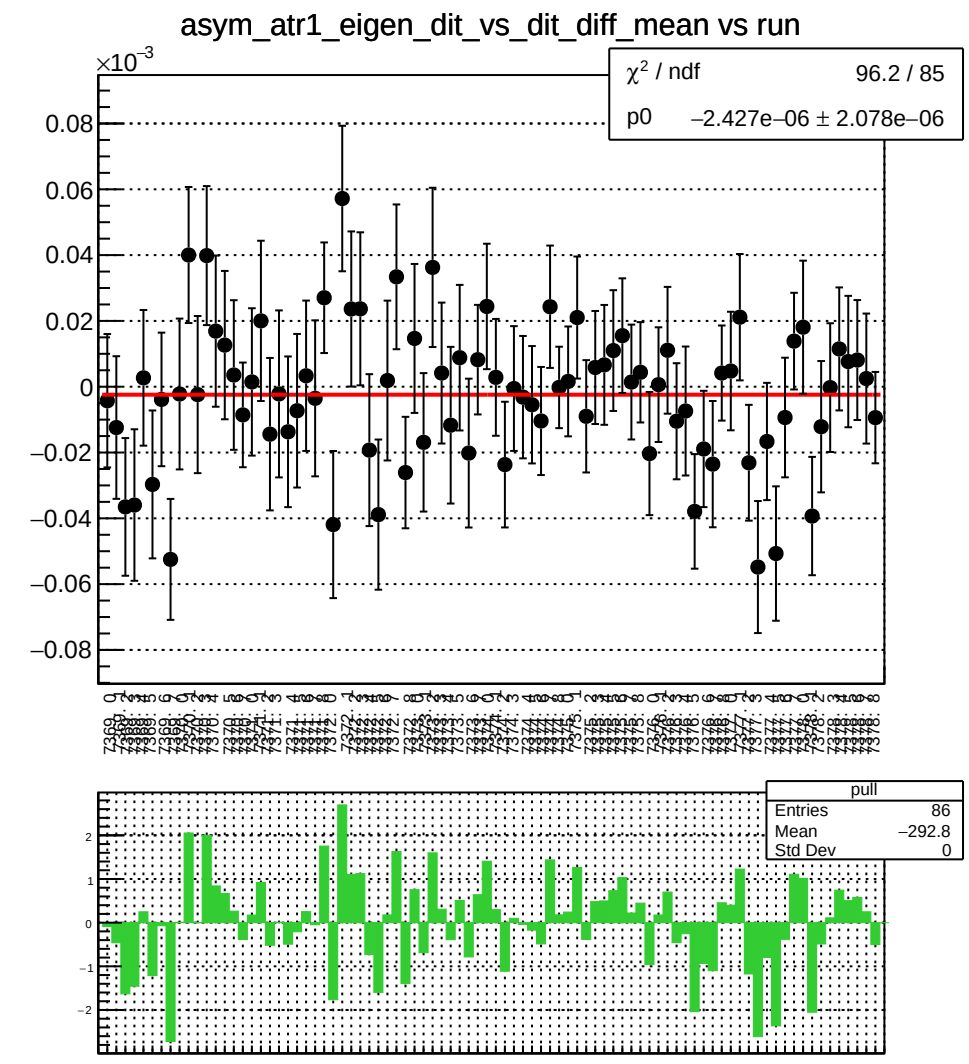

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 105 / 85
p0 −0.0748 ± 0.07169
pull
Entries 86
Mean 175.2
Std Dev 0
pull1D
Entries 86
Mean 0.02808
Std Dev 1.104

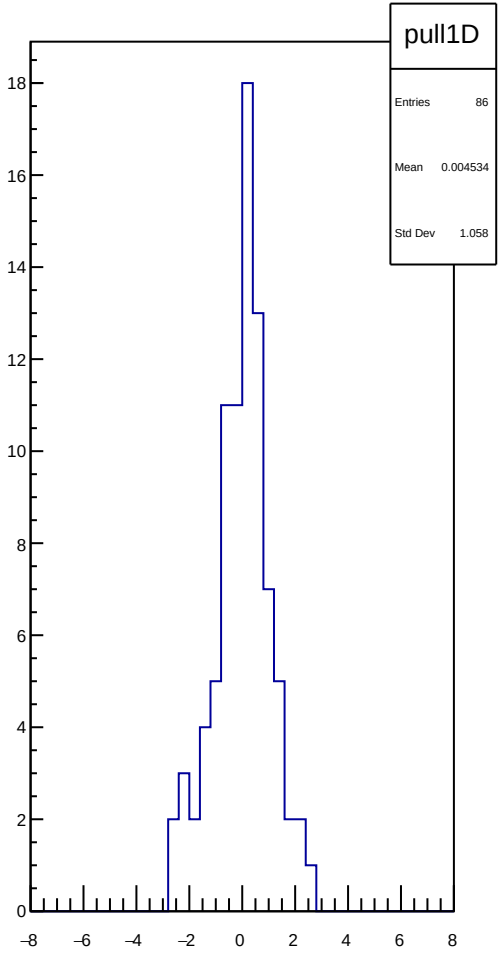

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.472e+05 / 85
p0 60.77 ± 0.0507
160
140
120
100
80
60
40
20

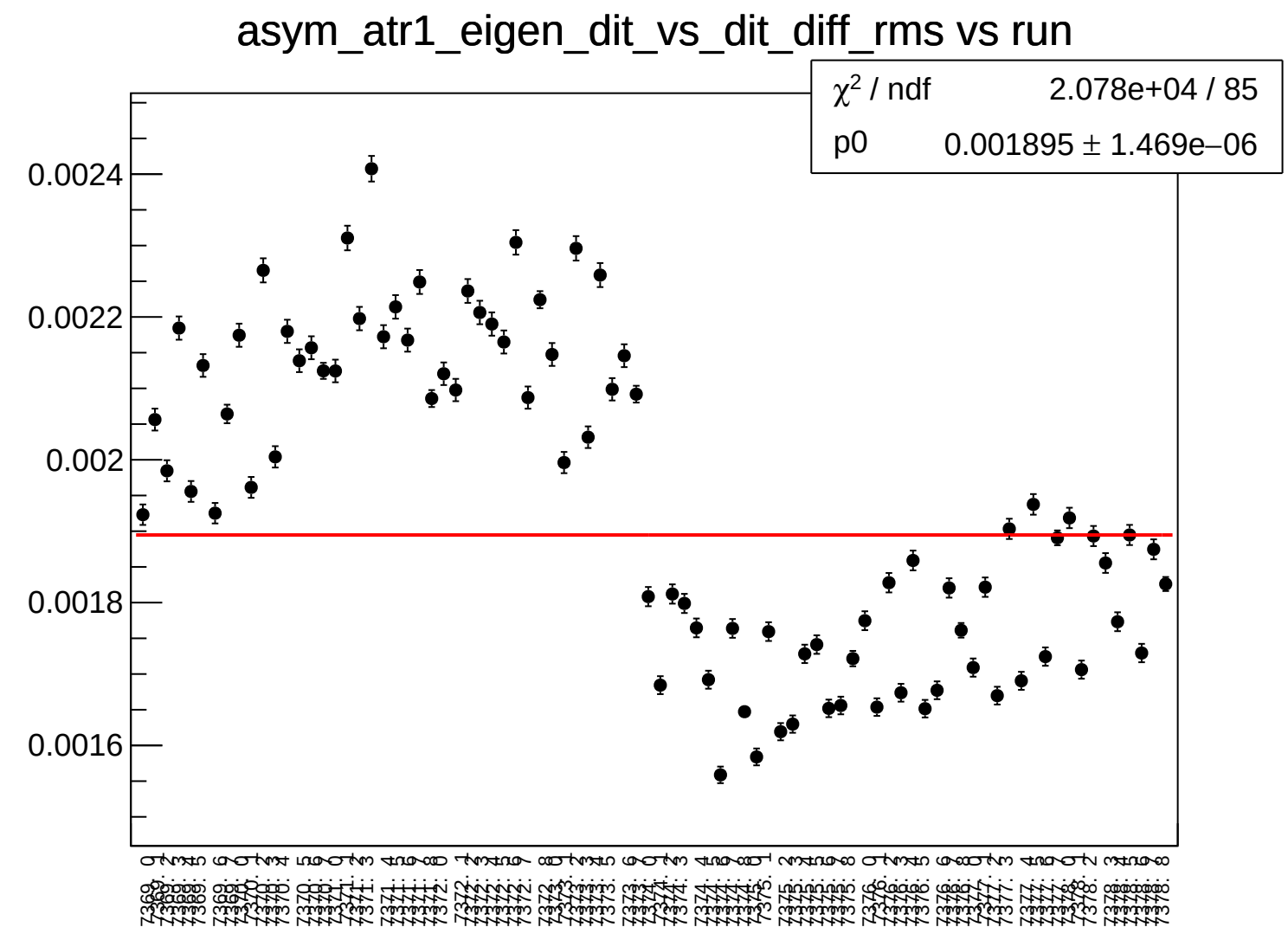

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105 / 85
p0 −0.0748 ± 0.07169
pull
Entries 86
Mean 175.2
Std Dev 0

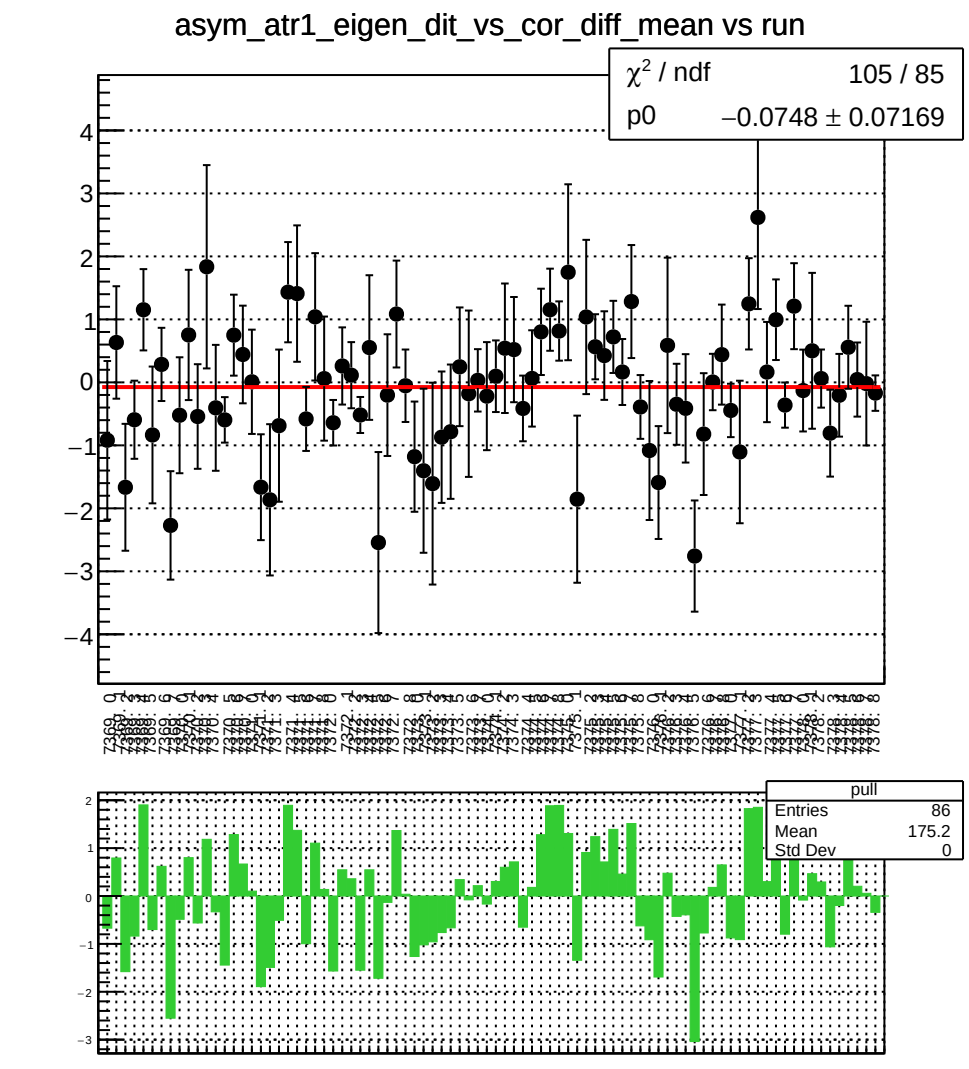

pull1D
Entries 86
Mean 0.02808
Std Dev 1.104

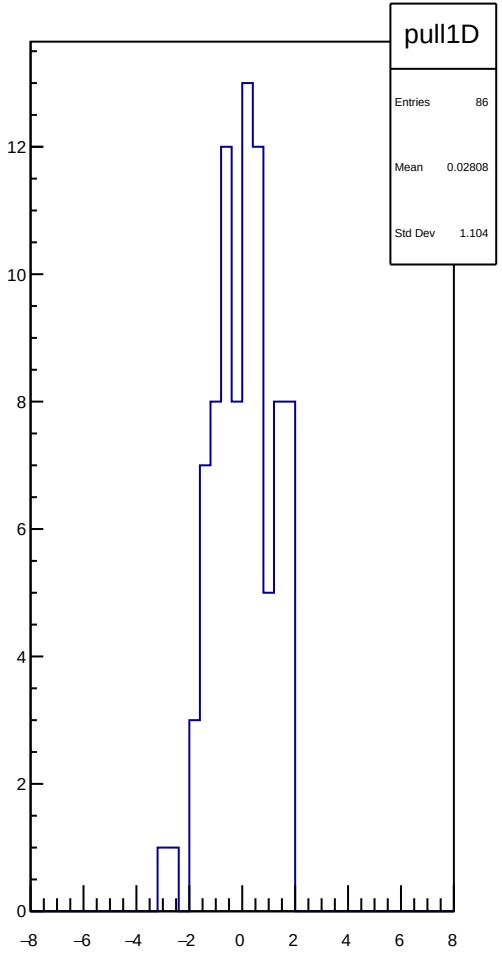

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.472e+05 / 85
p0 60.77 ± 0.0507
160
140
120
100
80
60
40
20

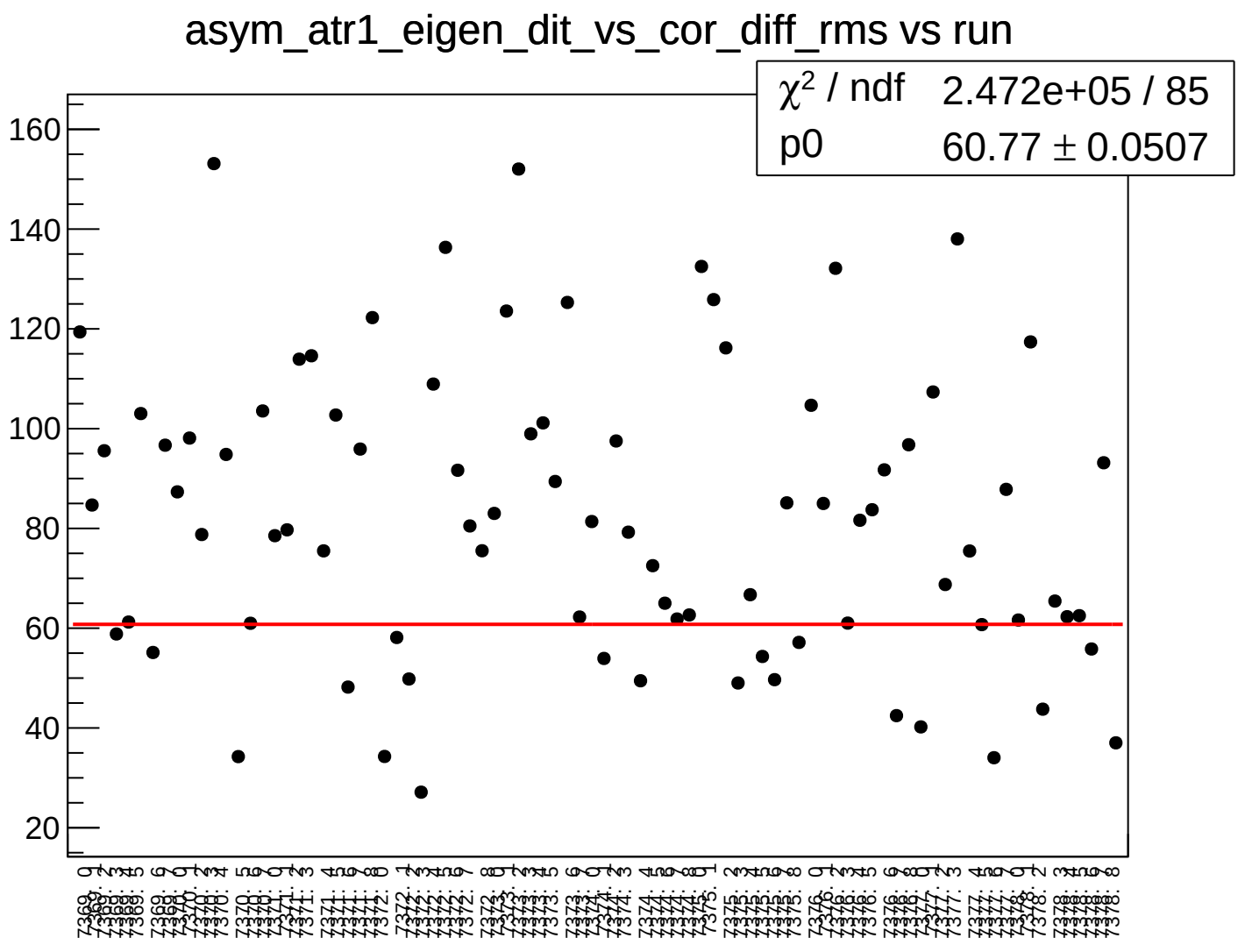

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.2 / 85
p0 −2.427e−06 ± 2.078e−06
pull
Entries 86
Mean −292.8
Std Dev 0

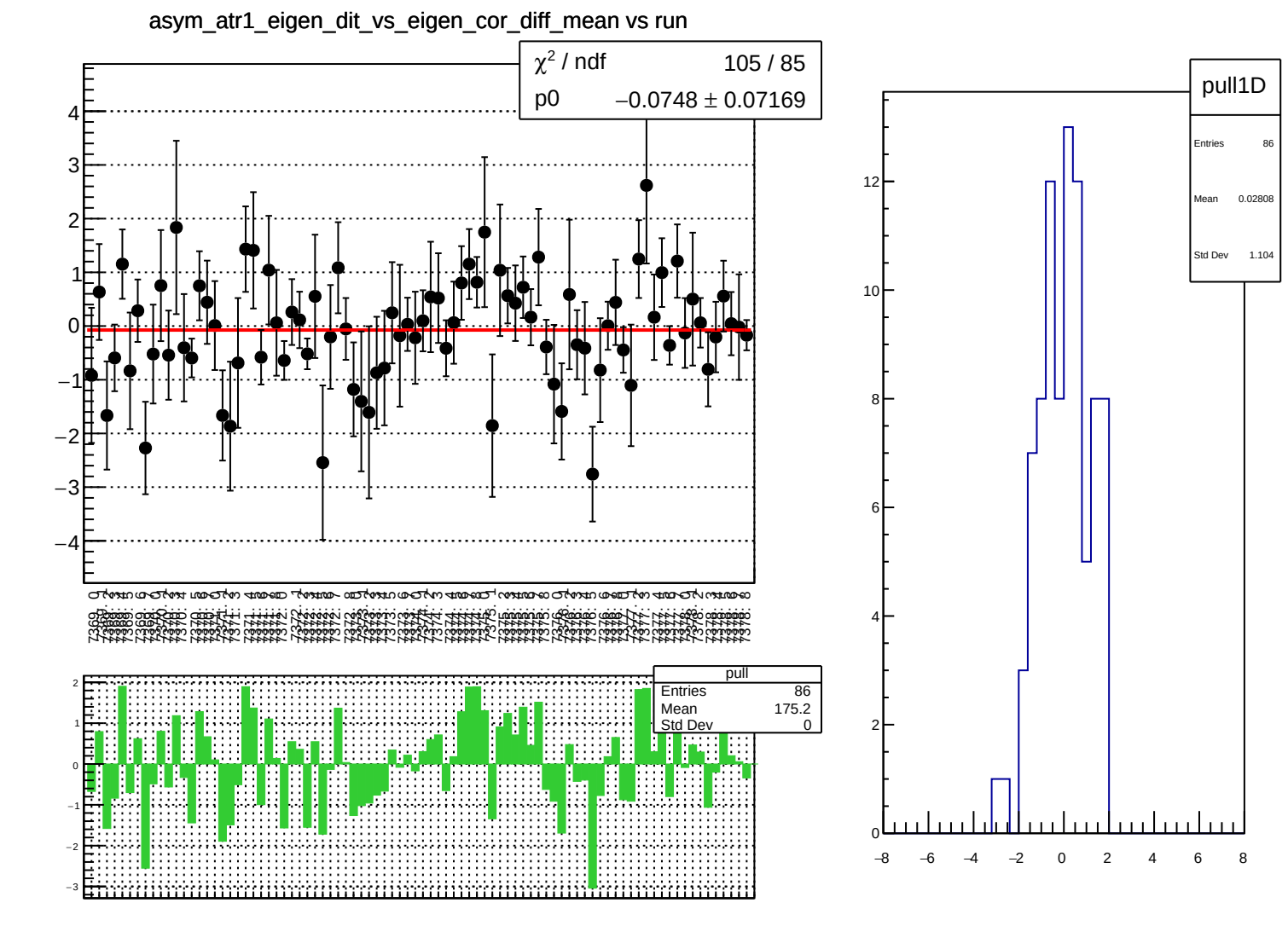

pull1D
Entries 86
Mean 0.004534
Std Dev 1.058

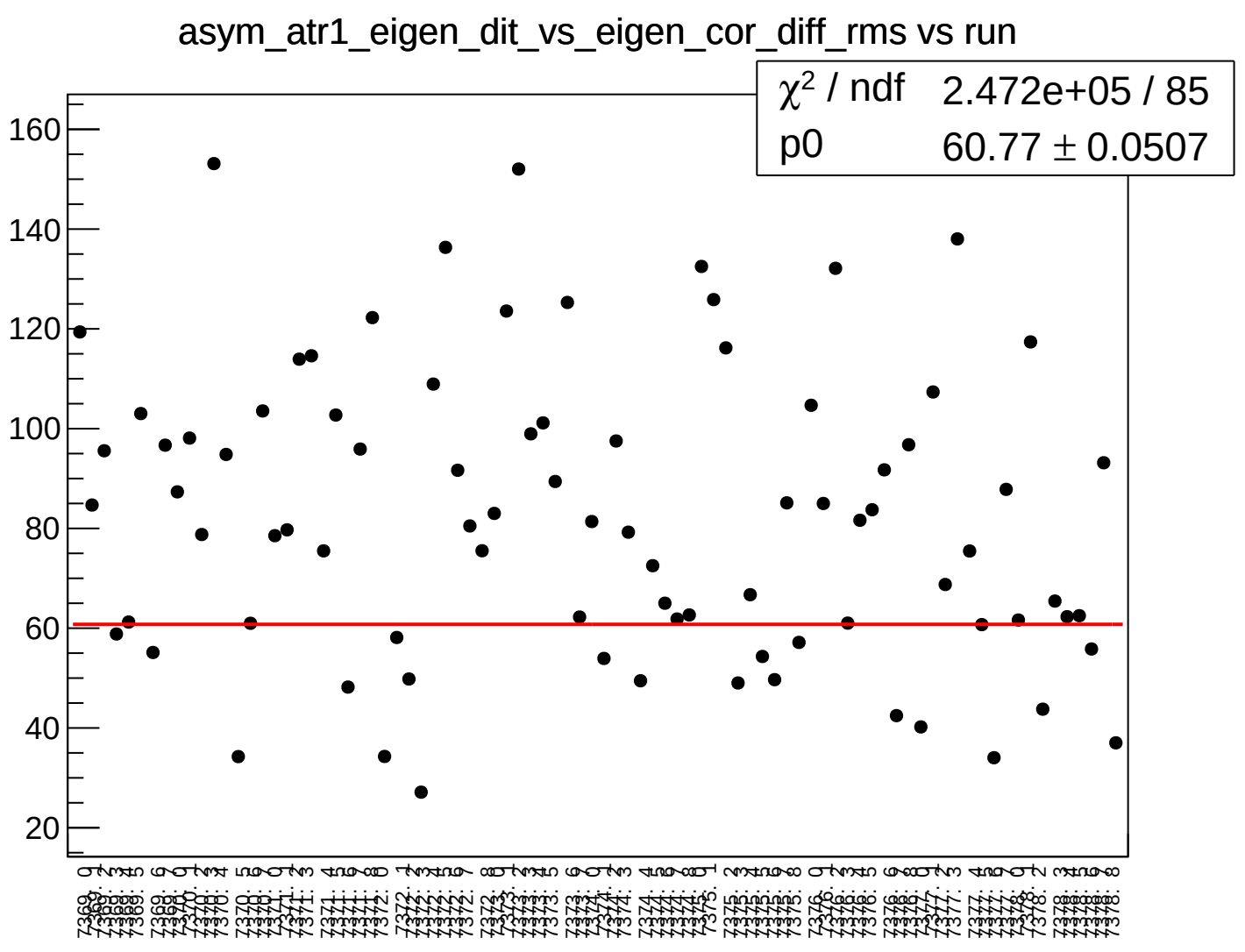

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.078e+04 / 85
p0 0.001895 ± 1.469e−06
0.0024
0.0022
0.002
0.0018
0.0016

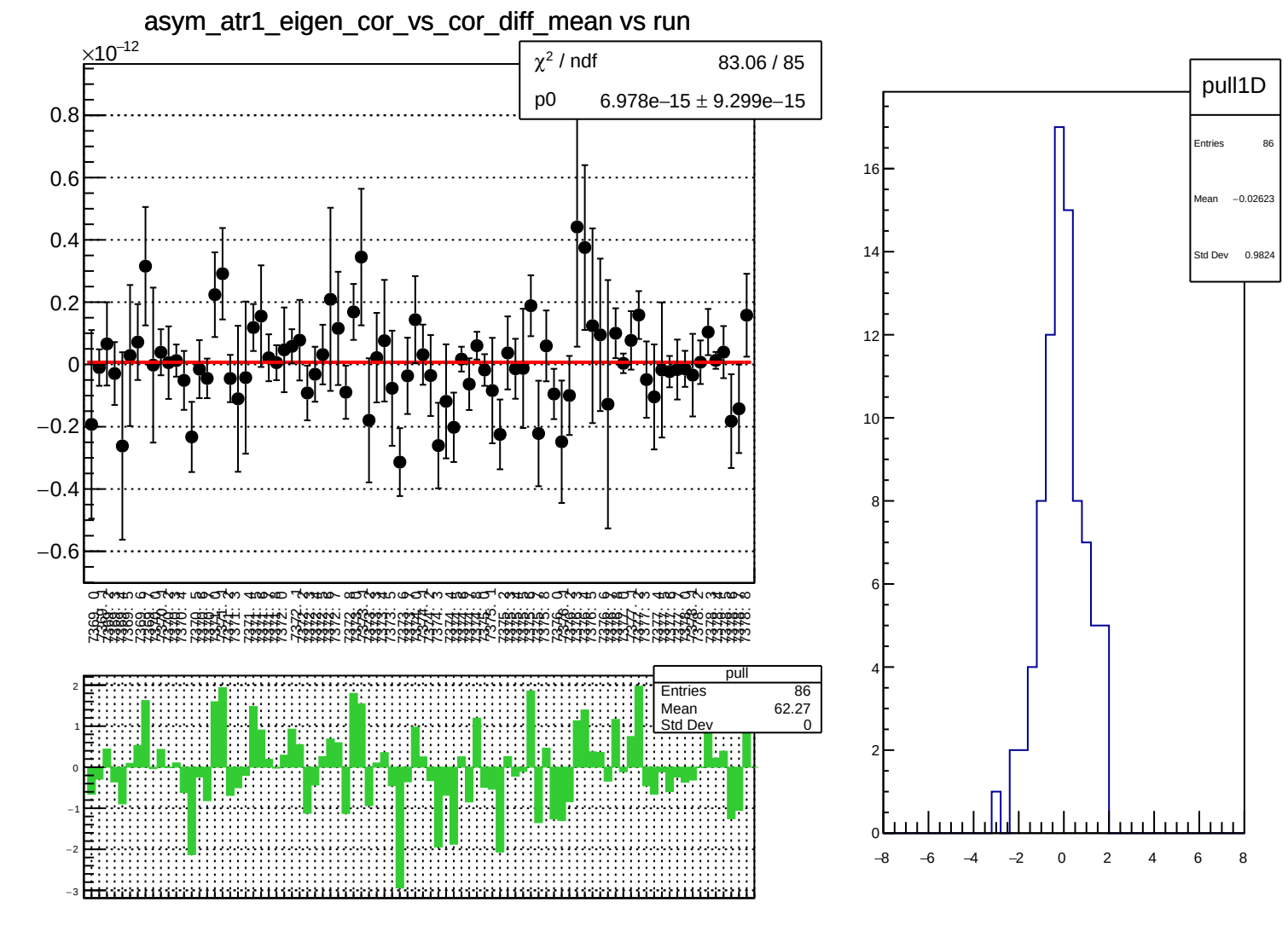

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105 / 85
p0 −0.0748 ± 0.07169
pull
Entries 86
Mean 175.2
Std Dev 0

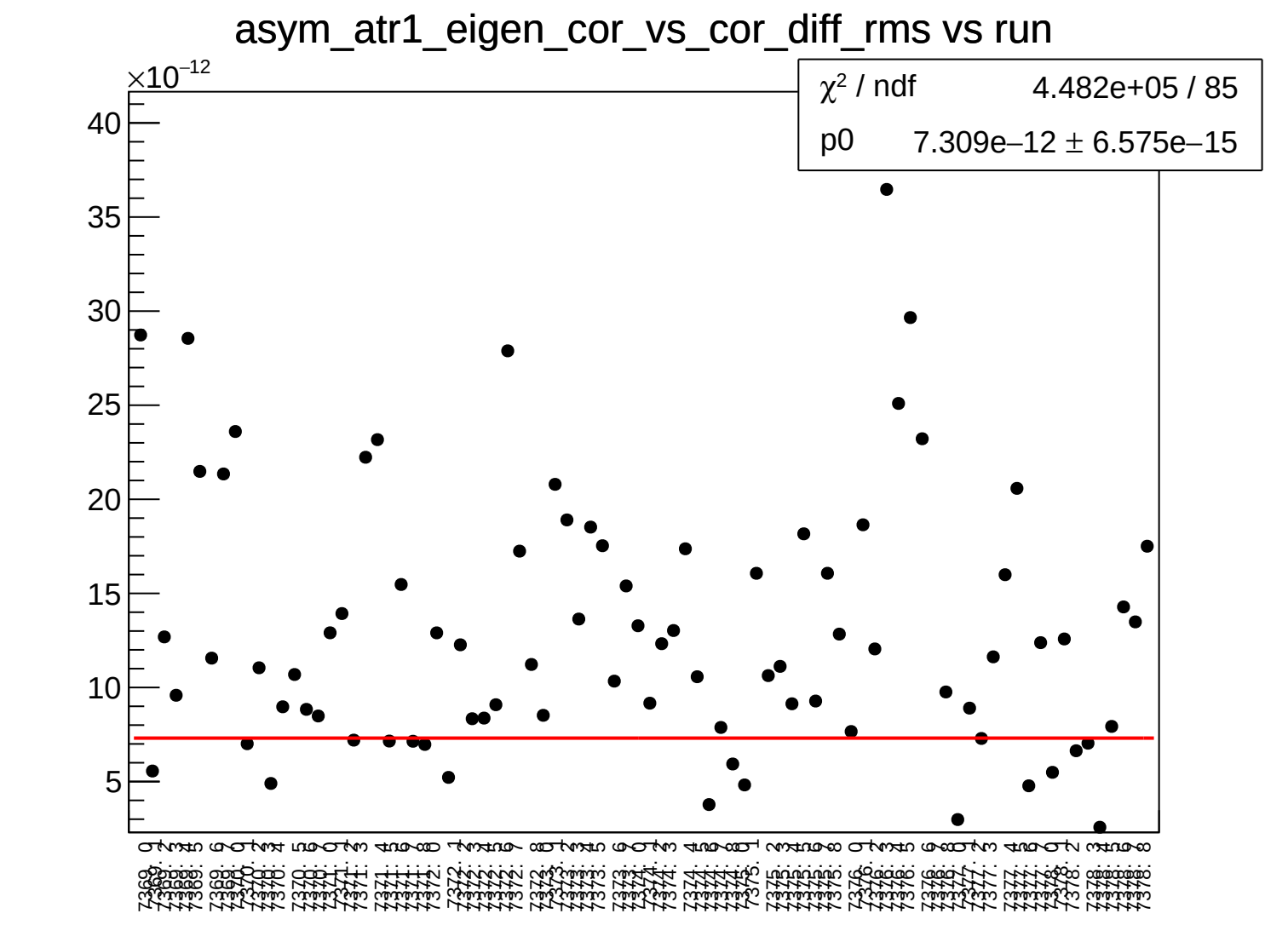

pull1D
Entries 86
Mean 0.02808
Std Dev 1.104

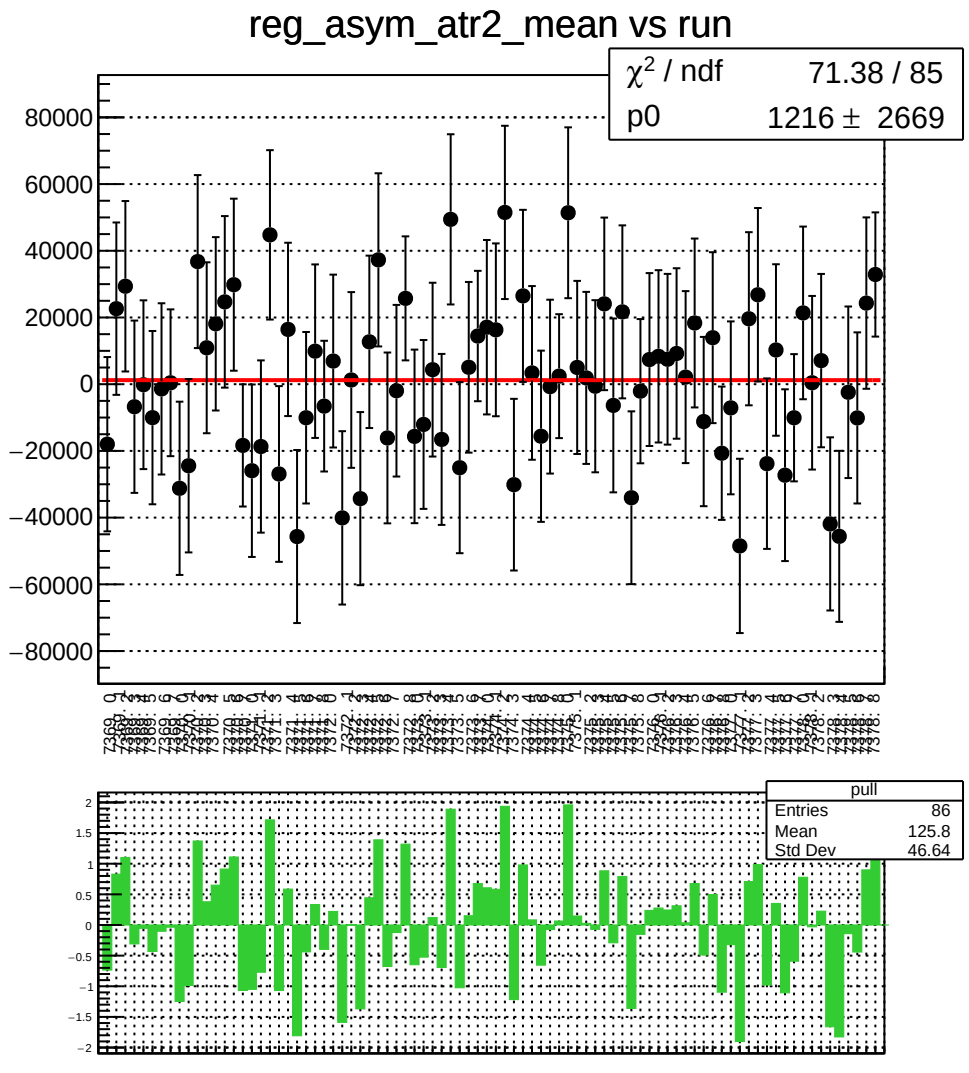

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.472e+05 / 85
p0 60.77 ± 0.0507
160
140
120
100
80
60
40
20

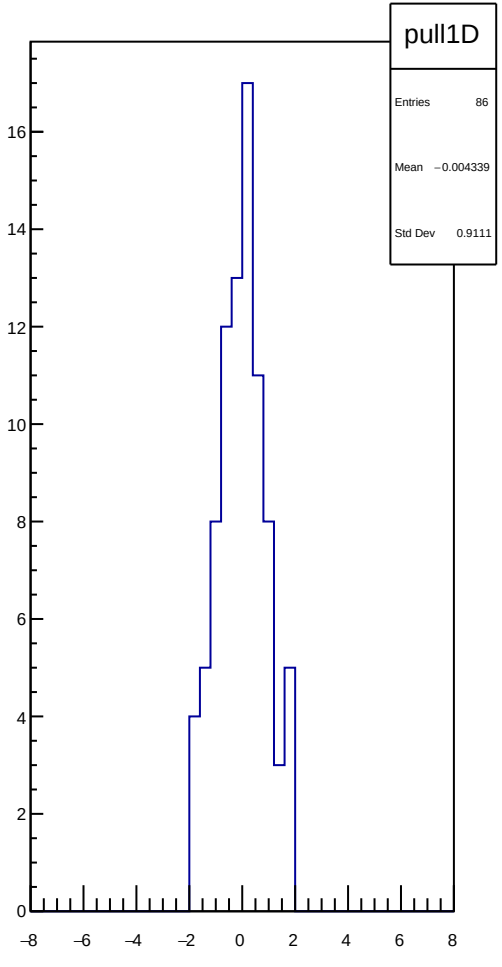

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105 / 85
p0 −0.0748 ± 0.07169
pull
Entries 86
Mean 175.2
Std Dev 0
pull1D
Entries 86
Mean 0.02808
Std Dev 1.104

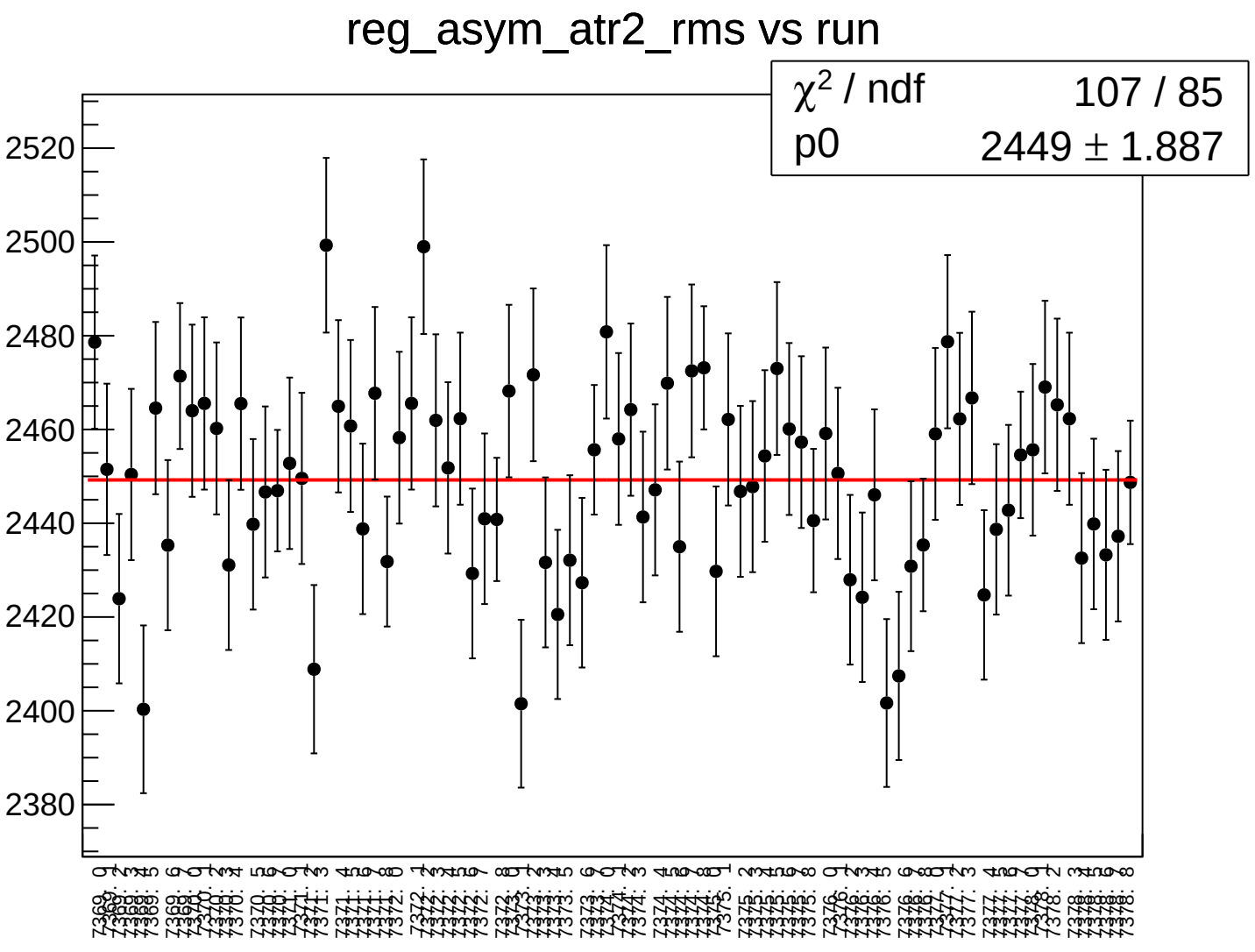

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.472e+05 / 85
p0 60.77 ± 0.0507
160
140
120
100
80
60
40
20

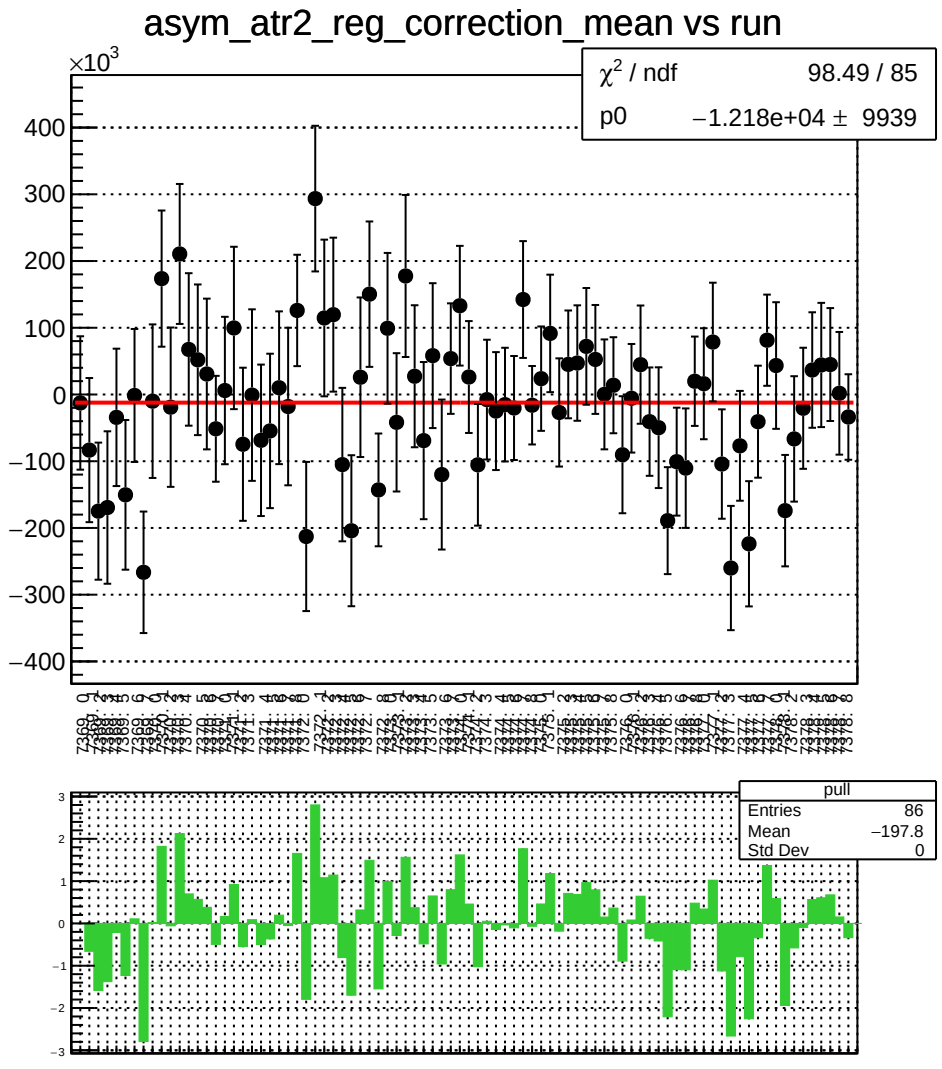

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.06 / 85
p0 6.978e−15 ± 9.299e−15
pull
Entries 86
Mean 62.27
Std Dev 0
pull1D
Entries 86
Mean −0.02623
Std Dev 0.9824

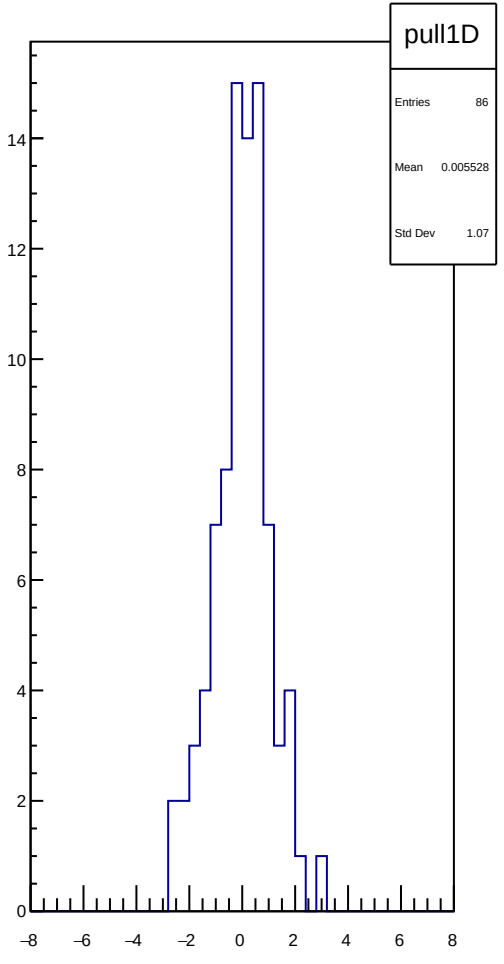

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.482e+05 / 85
p0 7.309e−12 ± 6.575e−15
40
35
30
25
20
15
10
5

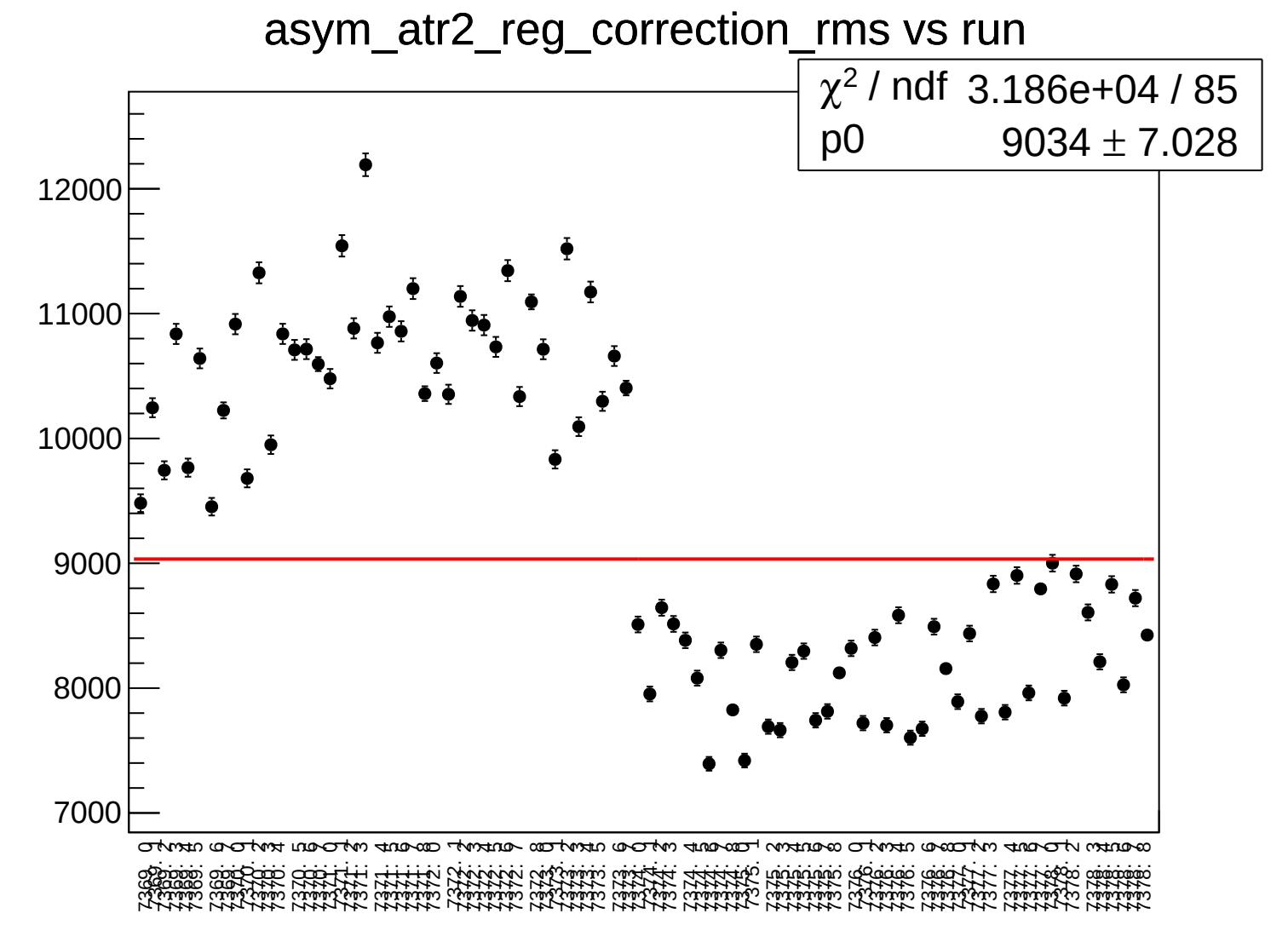

reg_asym_atr2_mean vs run
χ² / ndf 71.38 / 85
p0 1216 ± 2669
pull
Entries 86
Mean 125.8
Std Dev 46.64

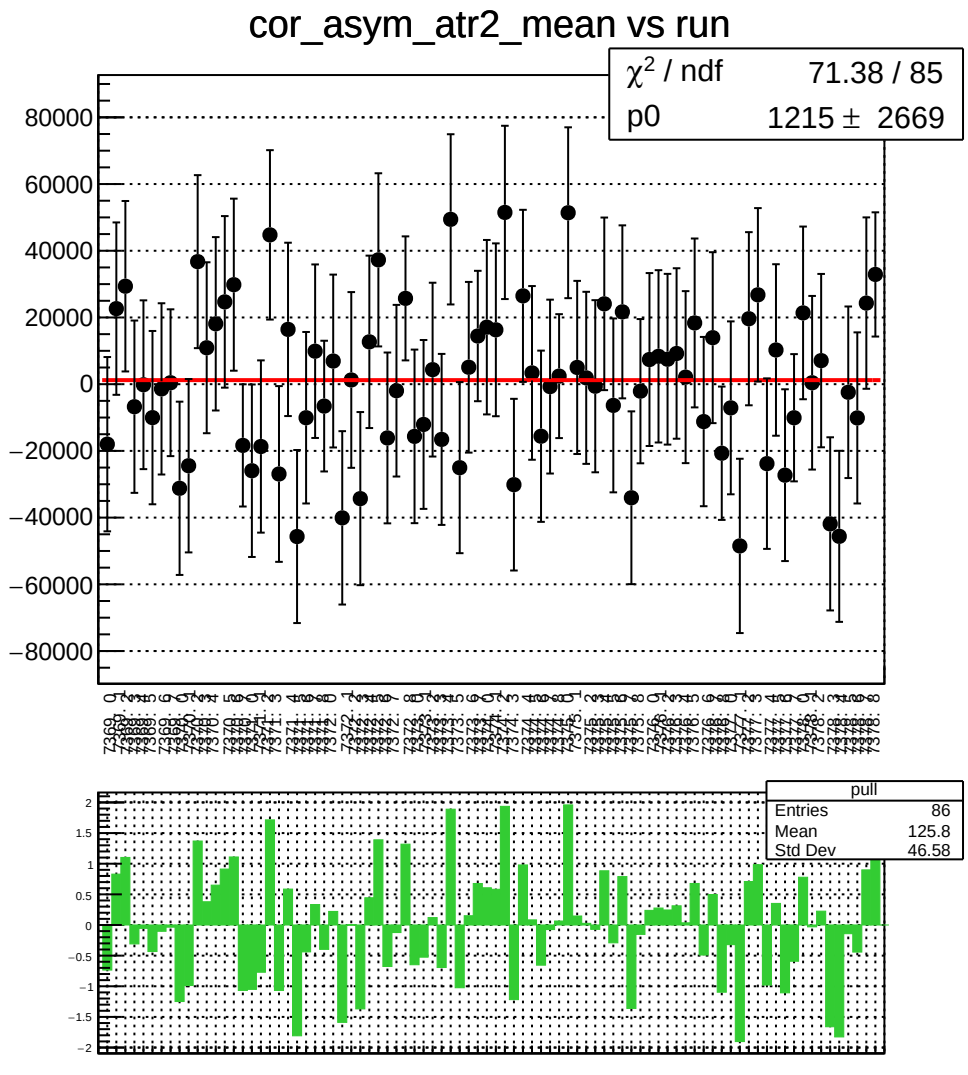

pull1D
Entries 86
Mean −0.004339
Std Dev 0.9111

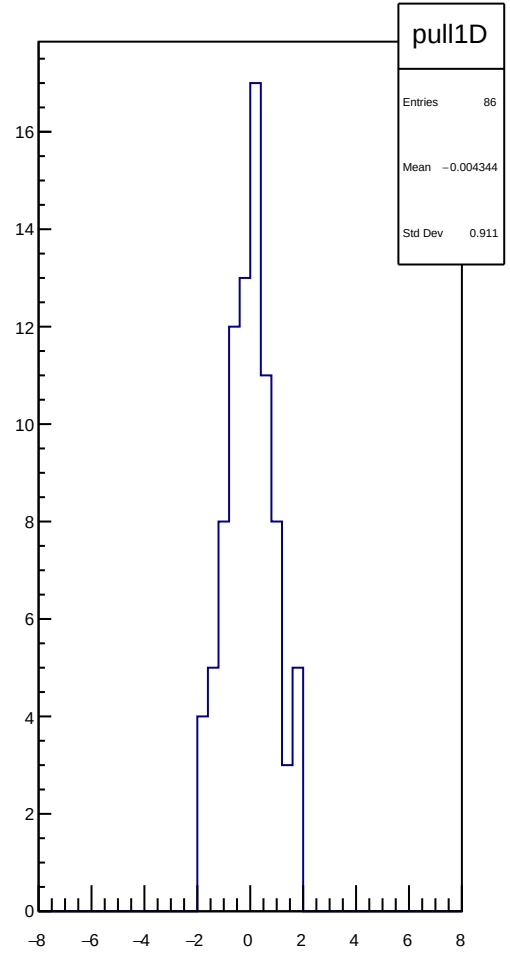

reg_asym_atr2_rms vs run
χ^2 / ndf 107 / 85
p0 2449 ± 1.887
2520
2500
2480
2460
2440
2420
2400
2380

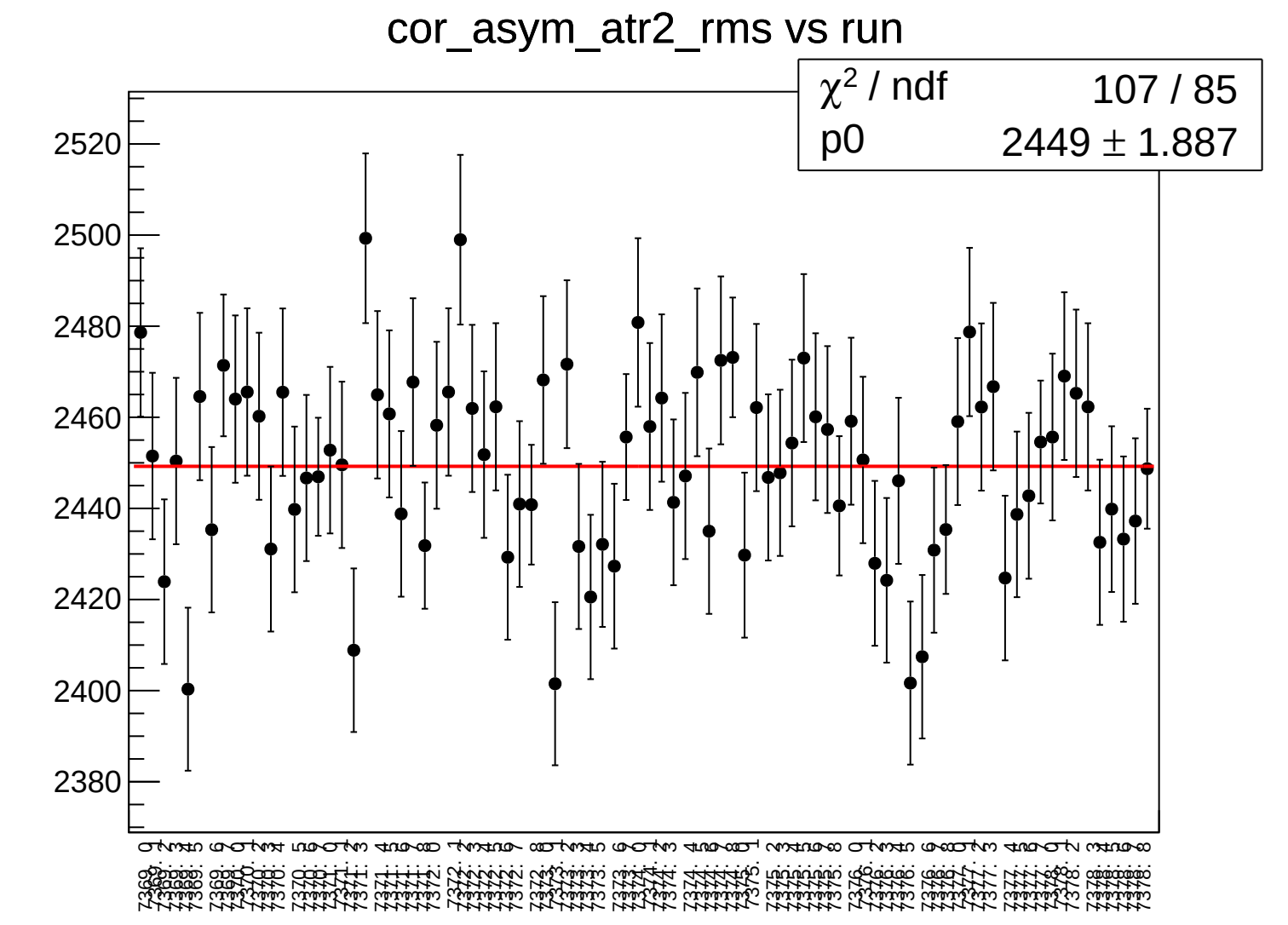

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 98.49 / 85
p0 −1.218e+04 ± 9939
pull
Entries 86
Mean −197.8
Std Dev 0

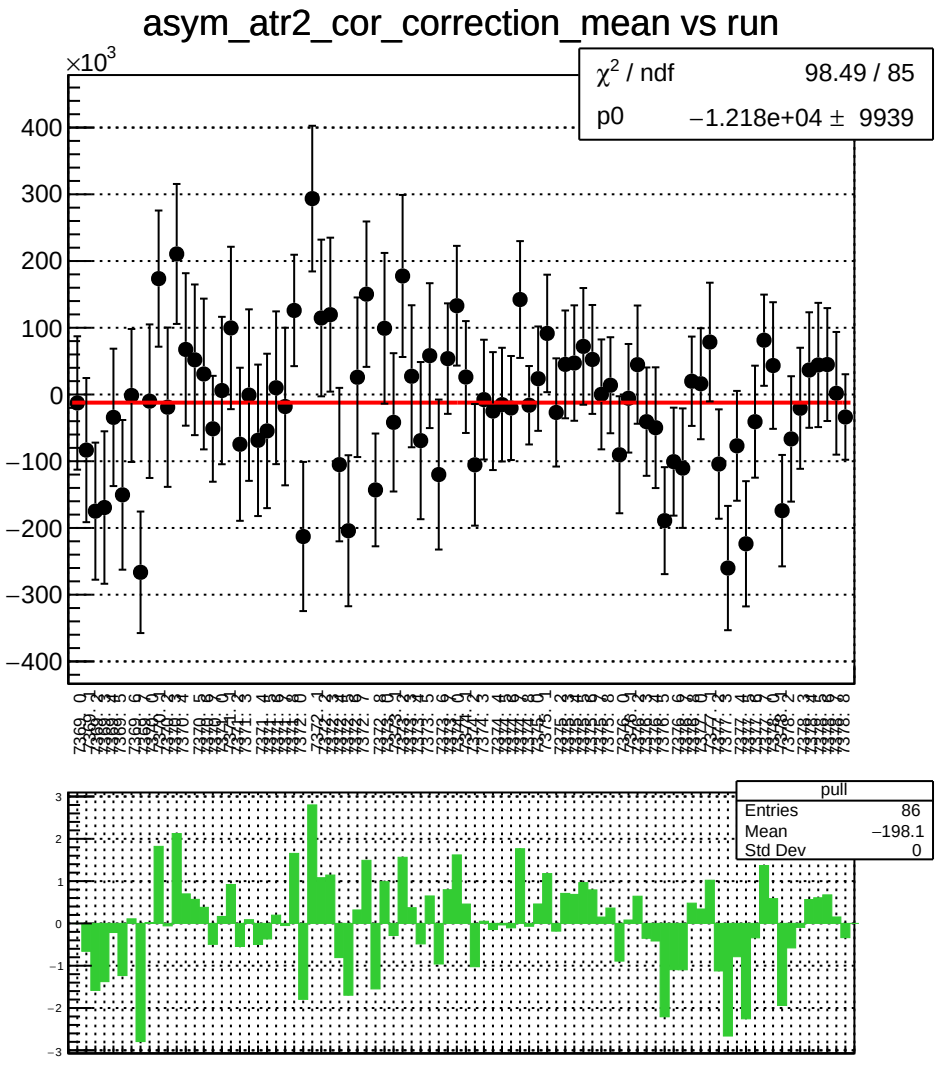

pull1D
Entries 86
Mean 0.005528
Std Dev 1.07

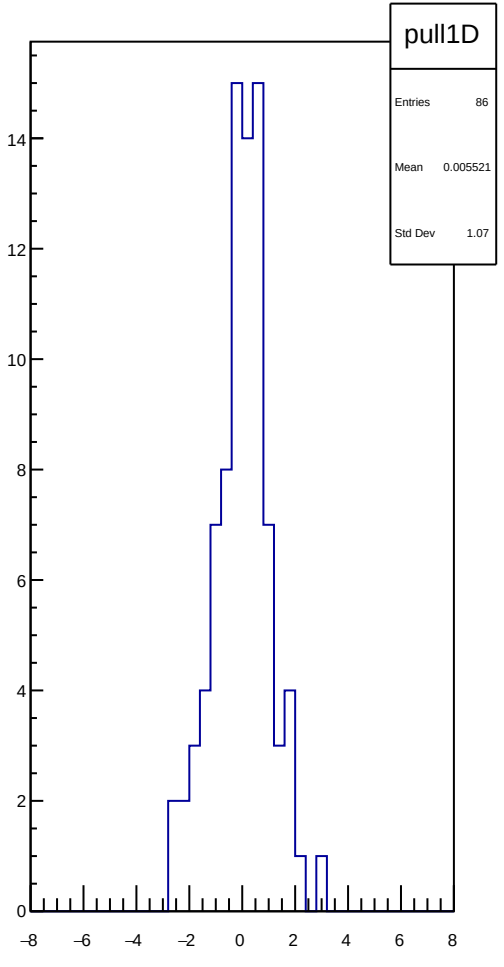

asym_atr2_reg_correction_rms vs run
χ² / ndf 3.186e+04 / 85
p0 9034 ± 7.028
12000
11000
10000
9000
8000
7000

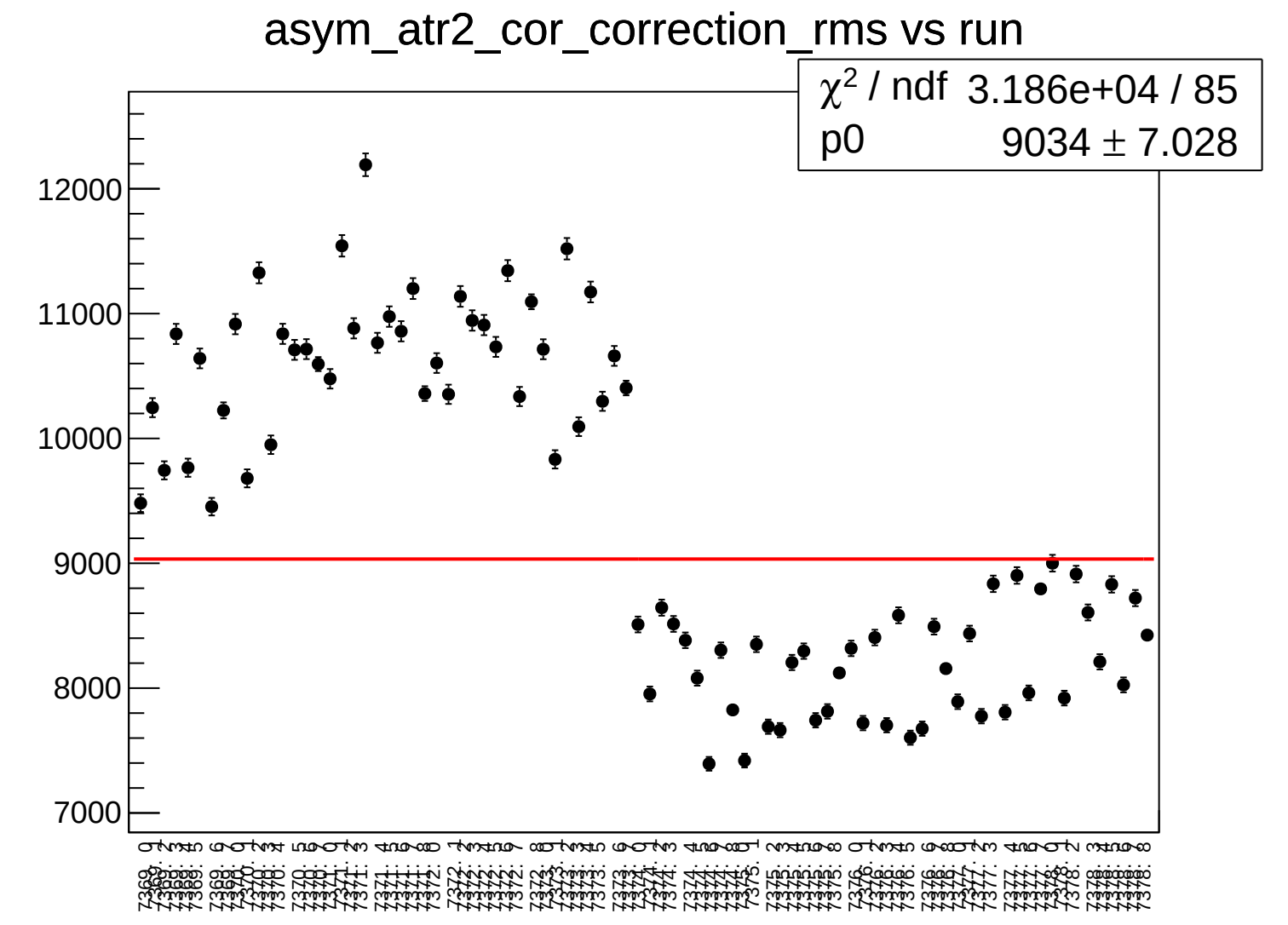

cor_asym_atr2_mean vs run
χ² / ndf 71.38 / 85
p0 1215 ± 2669
pull
Entries 86
Mean 125.8
Std Dev 46.58

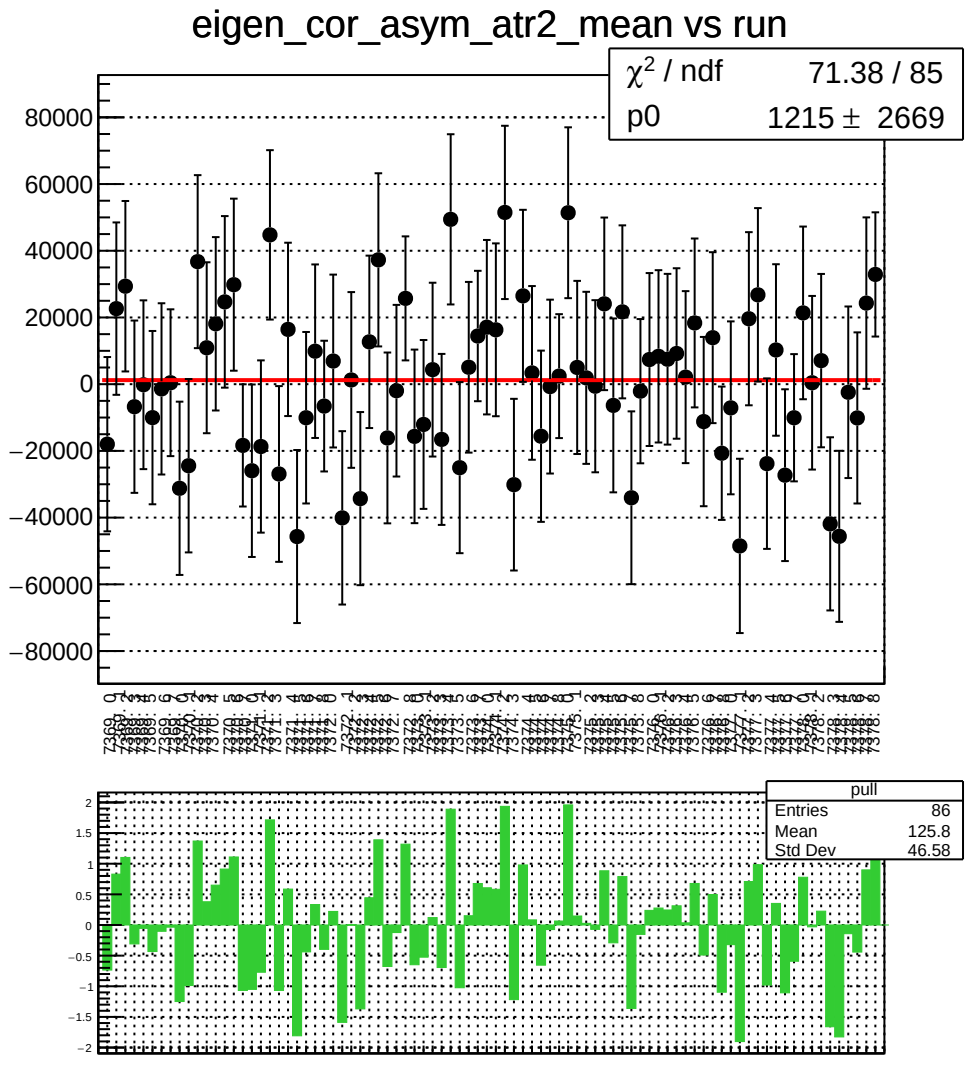

pull1D
Entries 86
Mean −0.004344
Std Dev 0.911

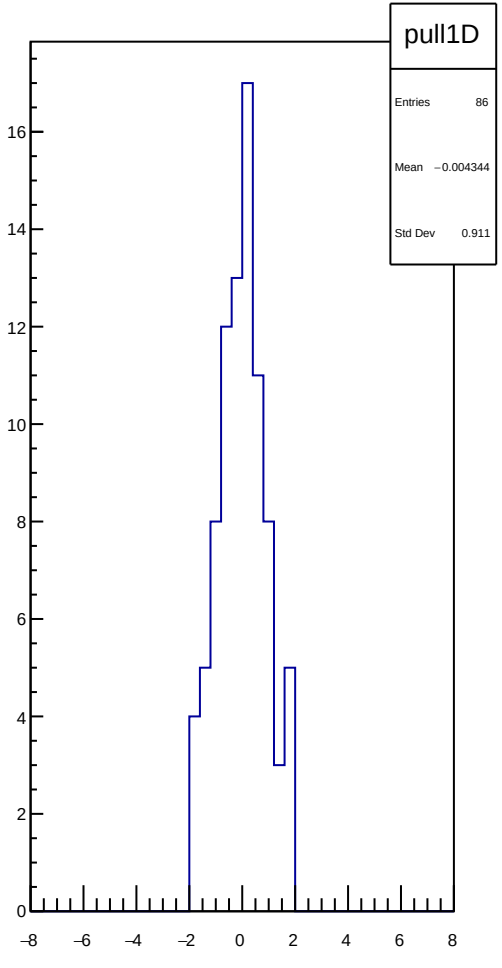

cor_asym_atr2_rms vs run
χ² / ndf 107 / 85
p0 2449 ± 1.887
2520
2500
2480
2460
2440
2420
2400
2380

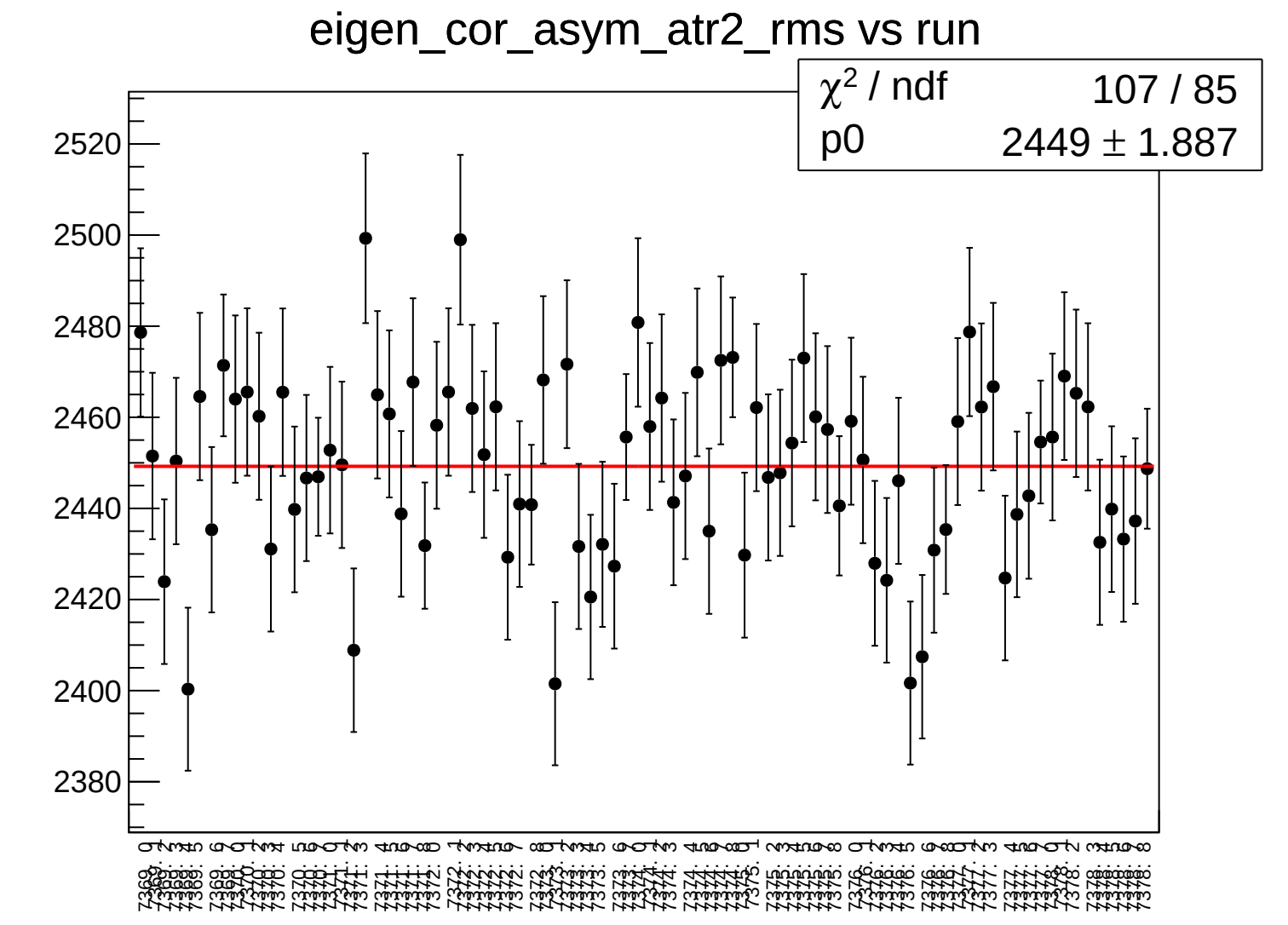

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 98.49 / 85
p0 −1.218e+04 ± 9939
pull
Entries 86
Mean −198.1
Std Dev 0

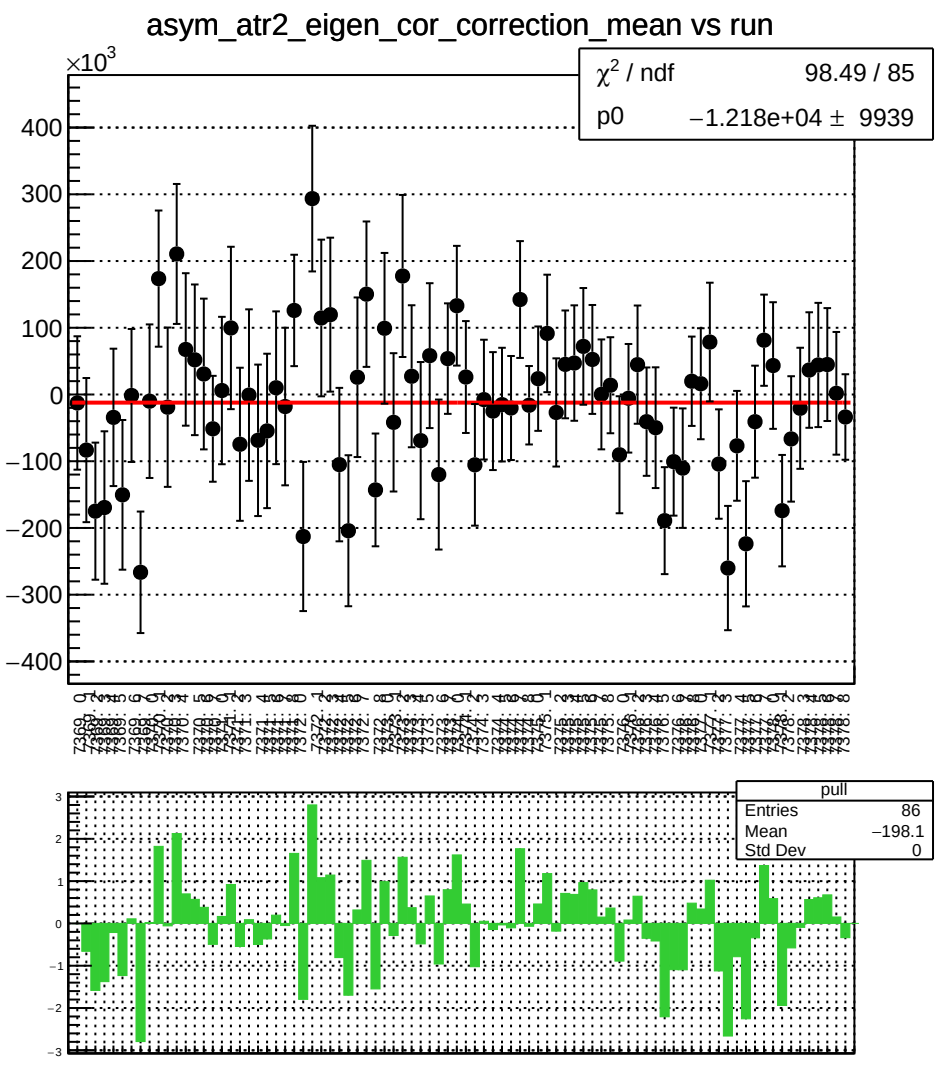

pull1D
Entries 86
Mean 0.005521
Std Dev 1.07

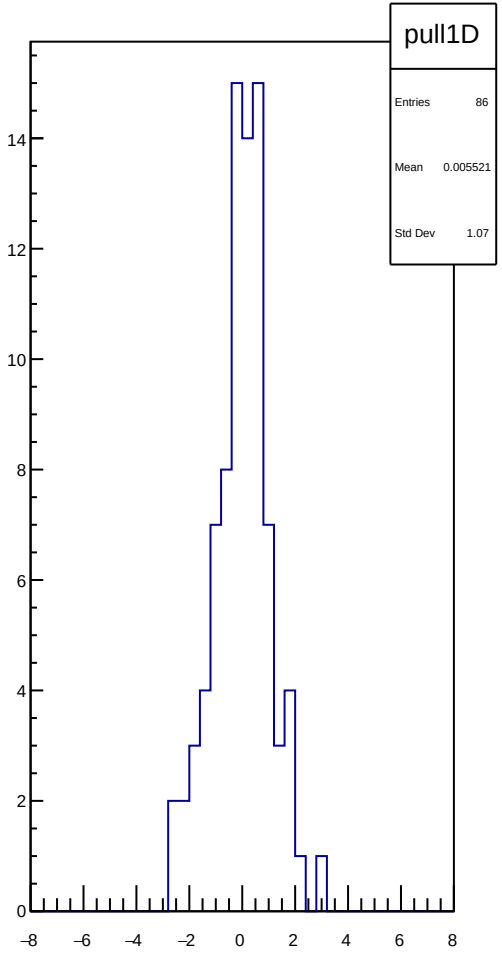

asym_atr2_cor_correction_rms vs run
χ² / ndf 3.186e+04 / 85
p0 9034 ± 7.028
12000
11000
10000
9000
8000
7000

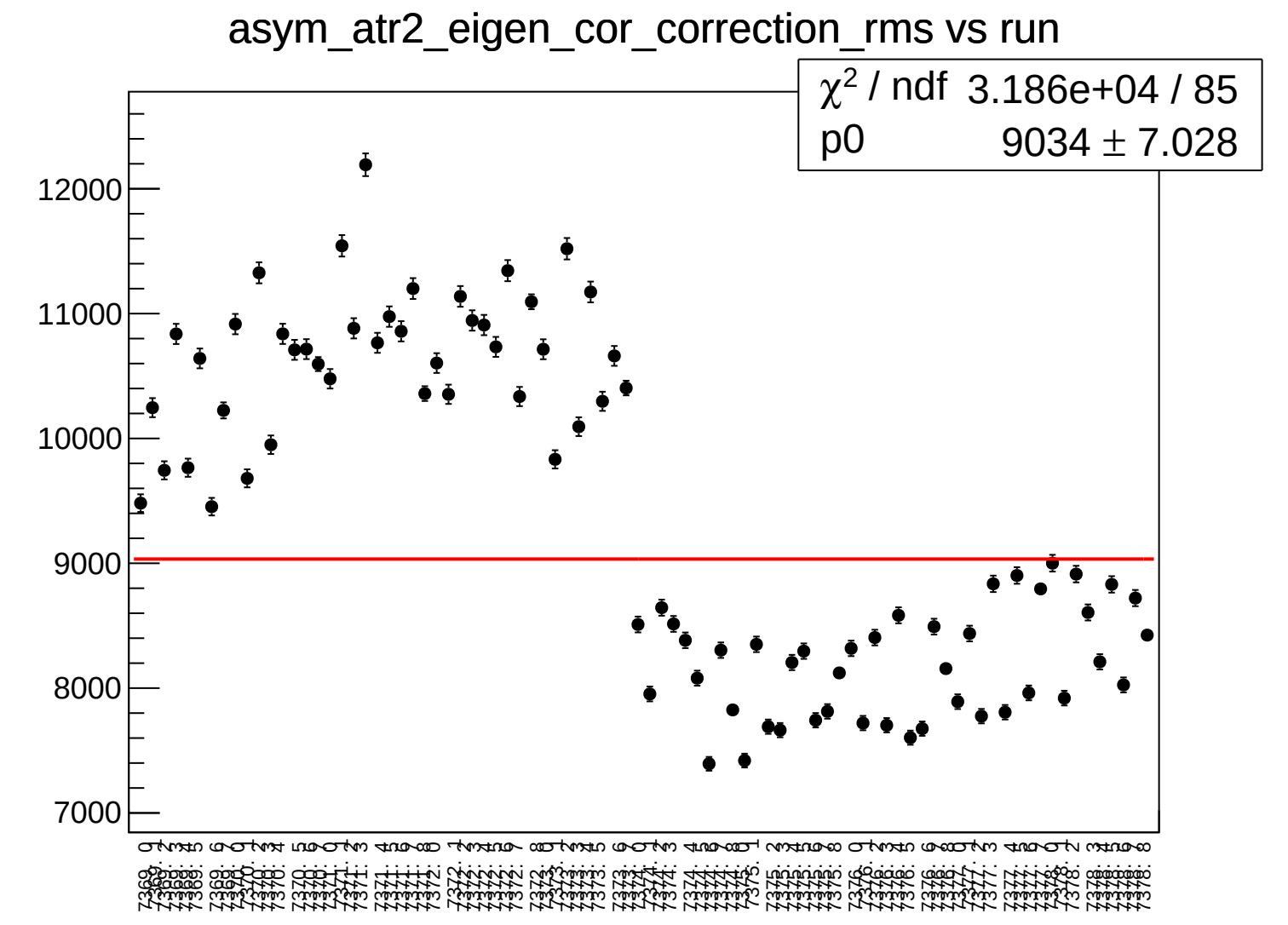

eigen_cor_asym_atr2_mean vs run
χ² / ndf 71.38 / 85
p0 1215 ± 2669
pull
Entries 86
Mean 125.8
Std Dev 46.58

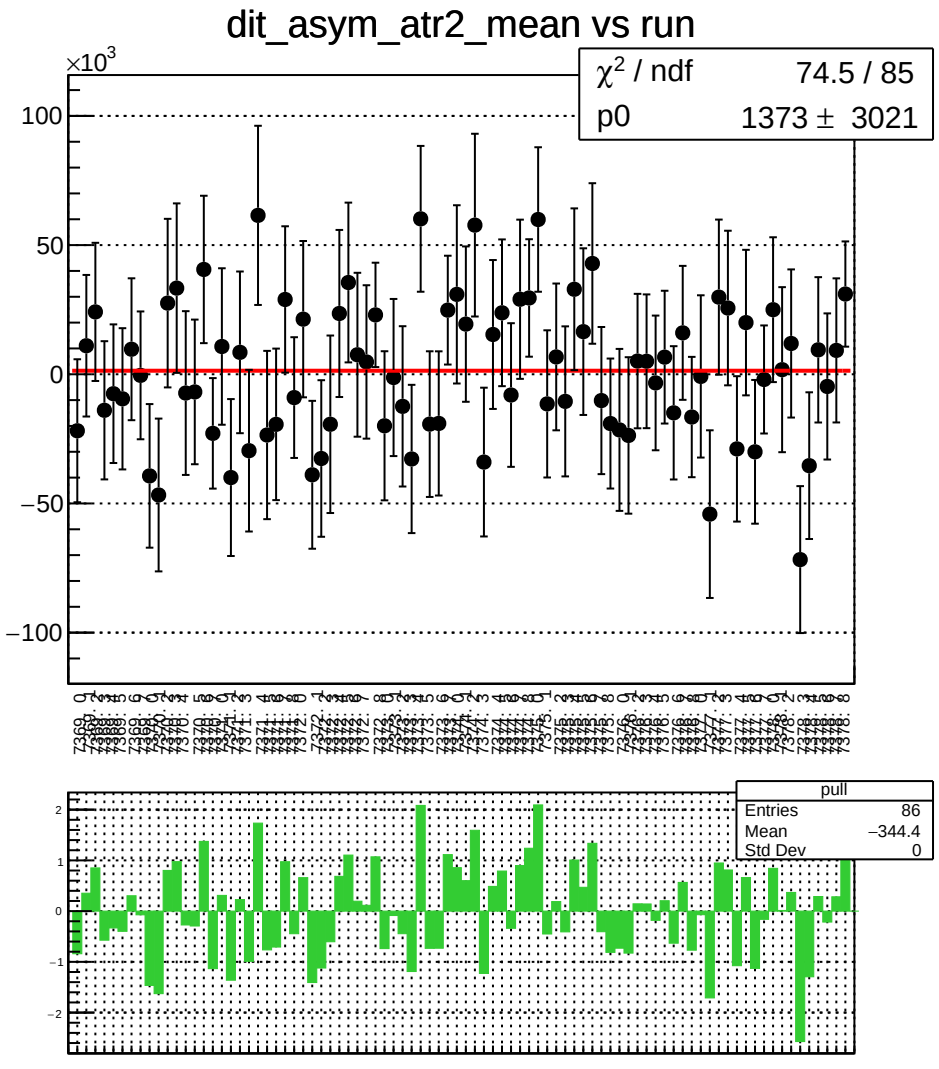

pull1D
Entries 86
Mean −0.004344
Std Dev 0.911

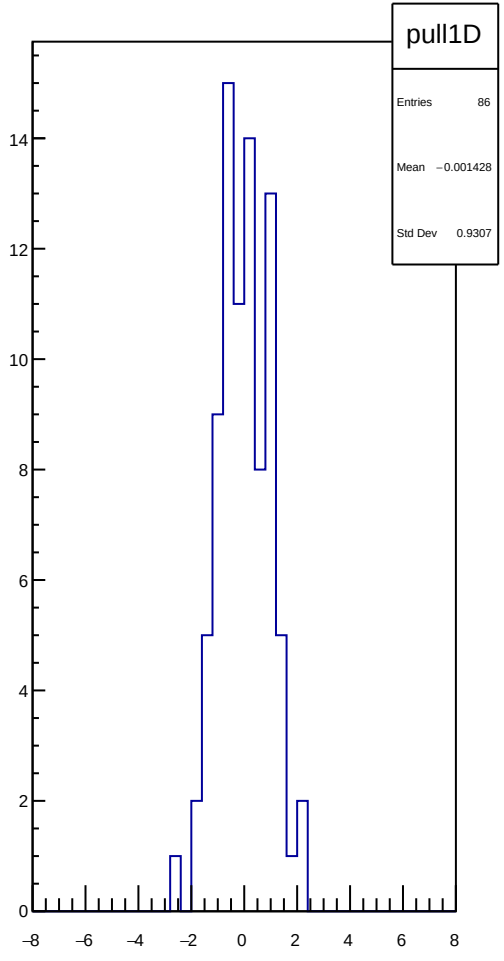

eigen_cor_asym_atr2_rms vs run
χ² / ndf 107 / 85
p0 2449 ± 1.887
2520
2500
2480
2460
2440
2420
2400
2380

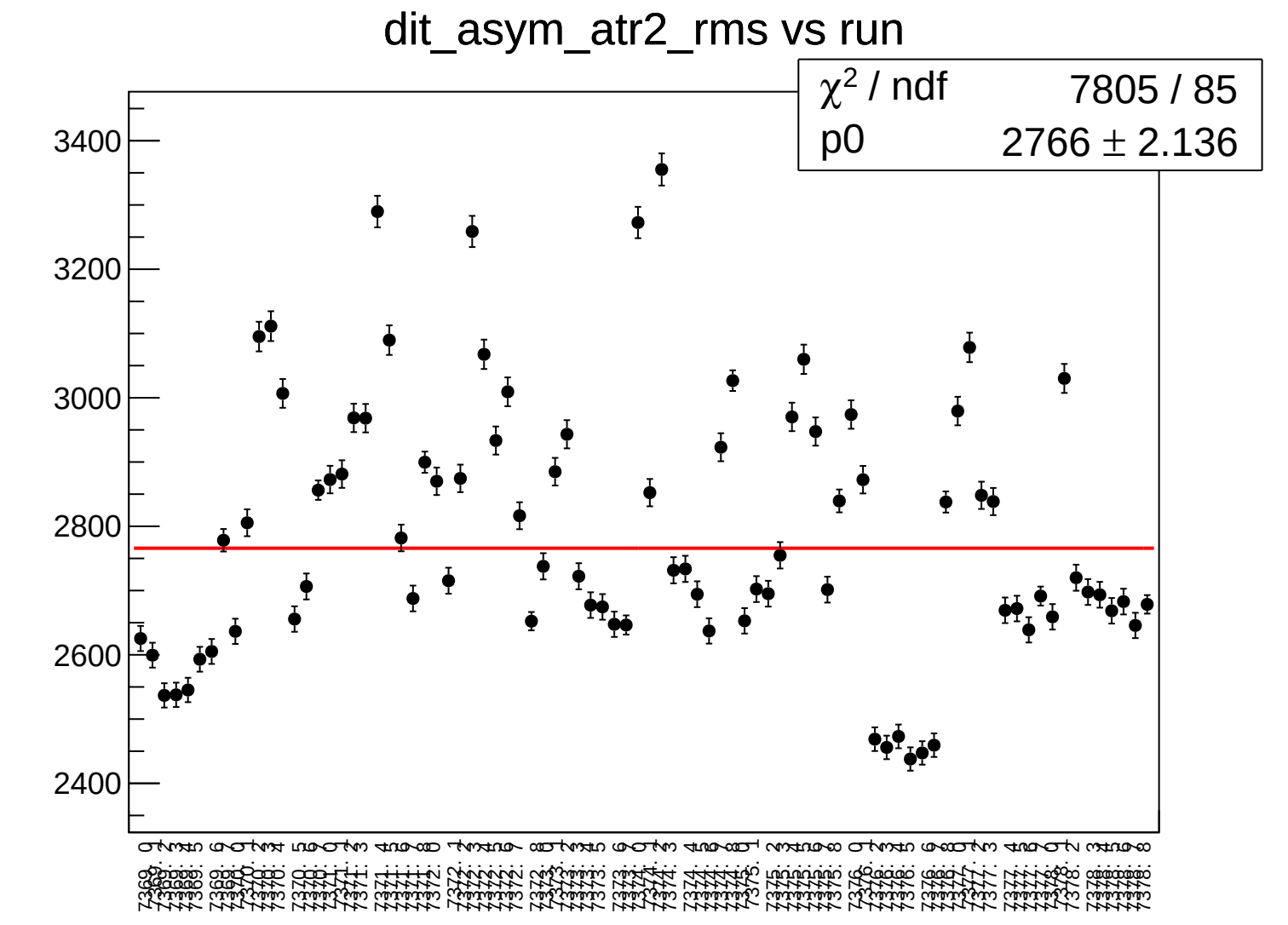

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.49 / 85
p0 −1.218e+04 ± 9939
pull
Entries 86
Mean −198.1
Std Dev 0

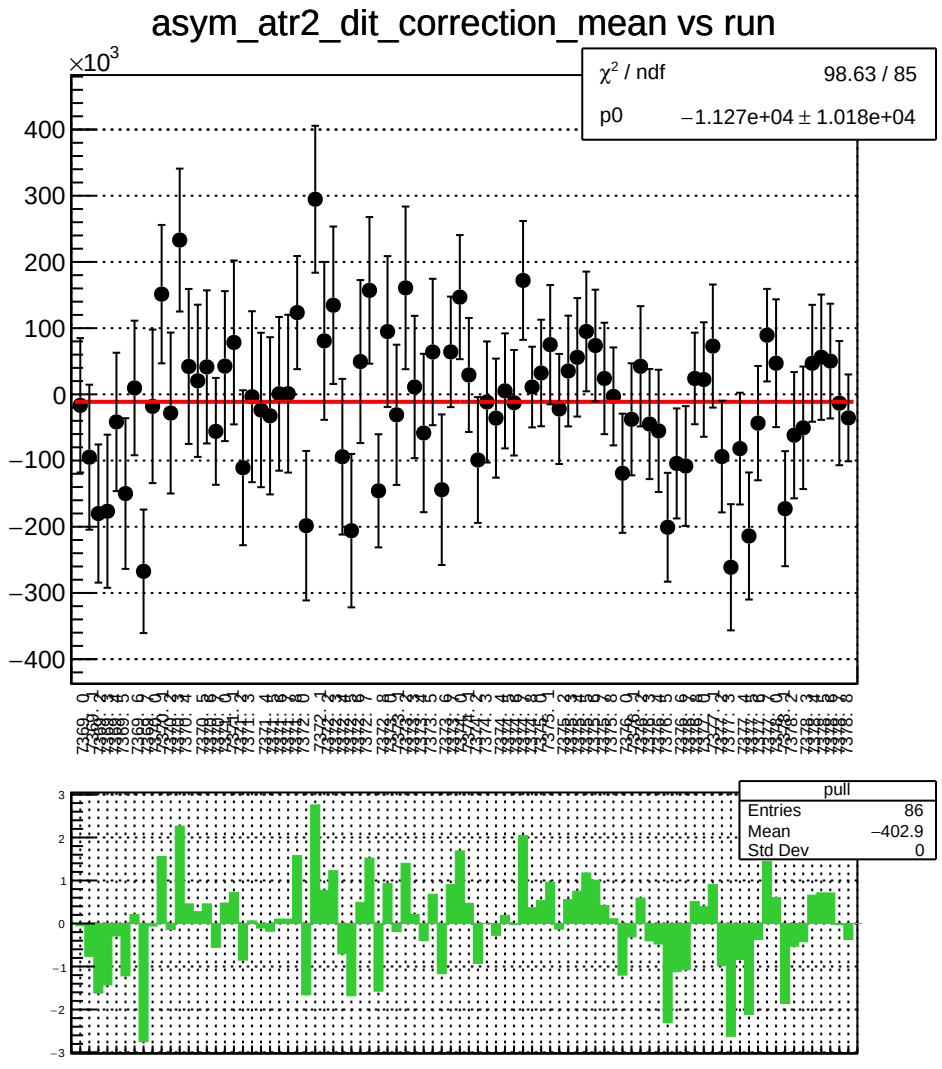

pull1D
Entries 86
Mean 0.005521
Std Dev 1.07

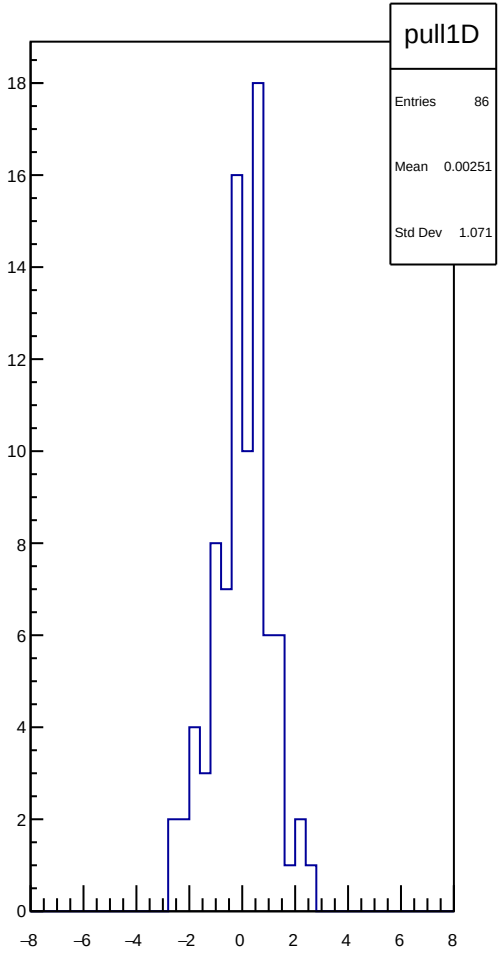

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3.186e+04 / 85
p0 9034 ± 7.028
12000
11000
10000
9000
8000
7000

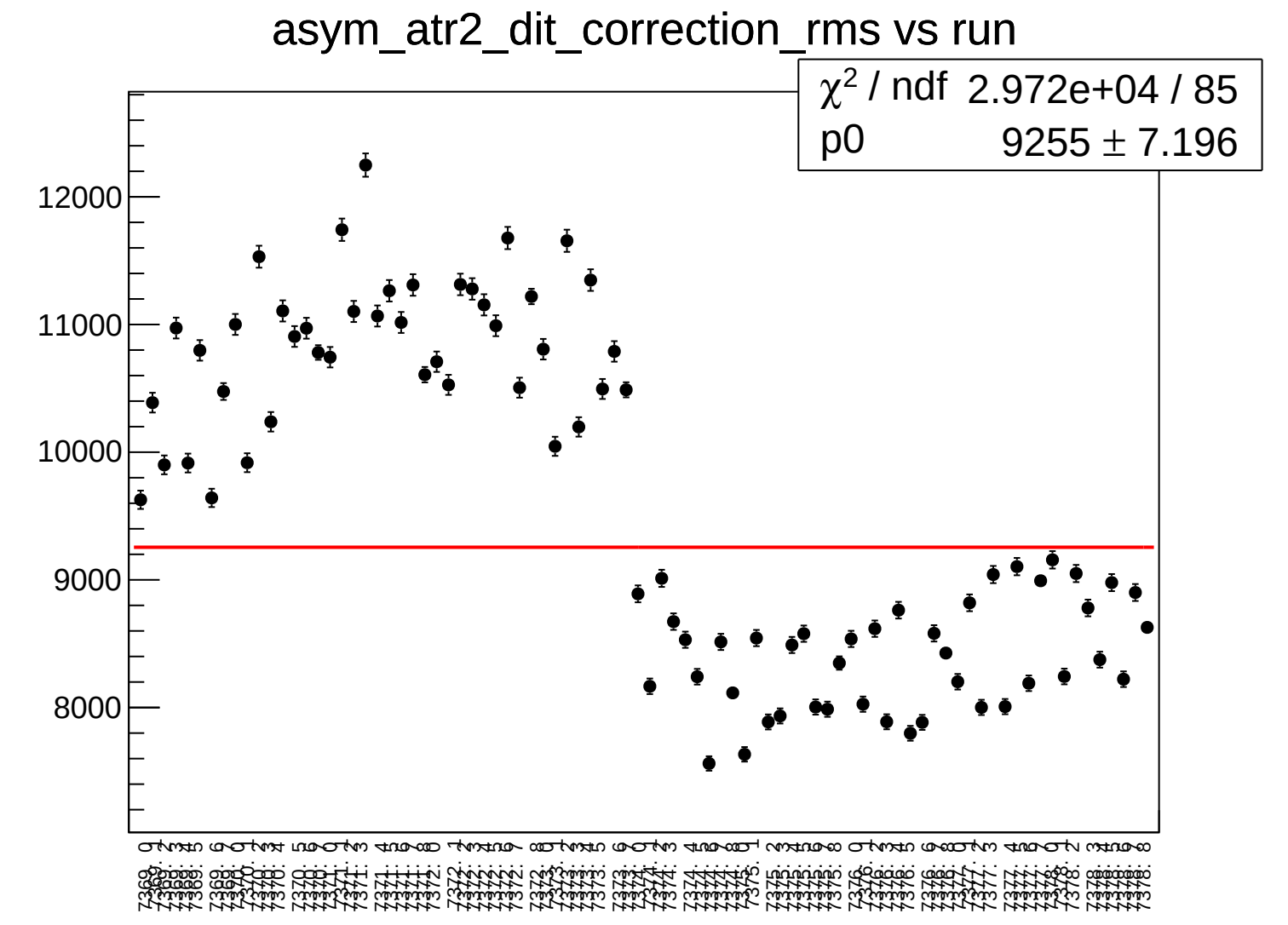

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 74.5 / 85
p0 1373 ± 3021
100
50
0
−50
−100
pull
Entries 86
Mean −344.4
Std Dev 0
2
1
0
−1
−2

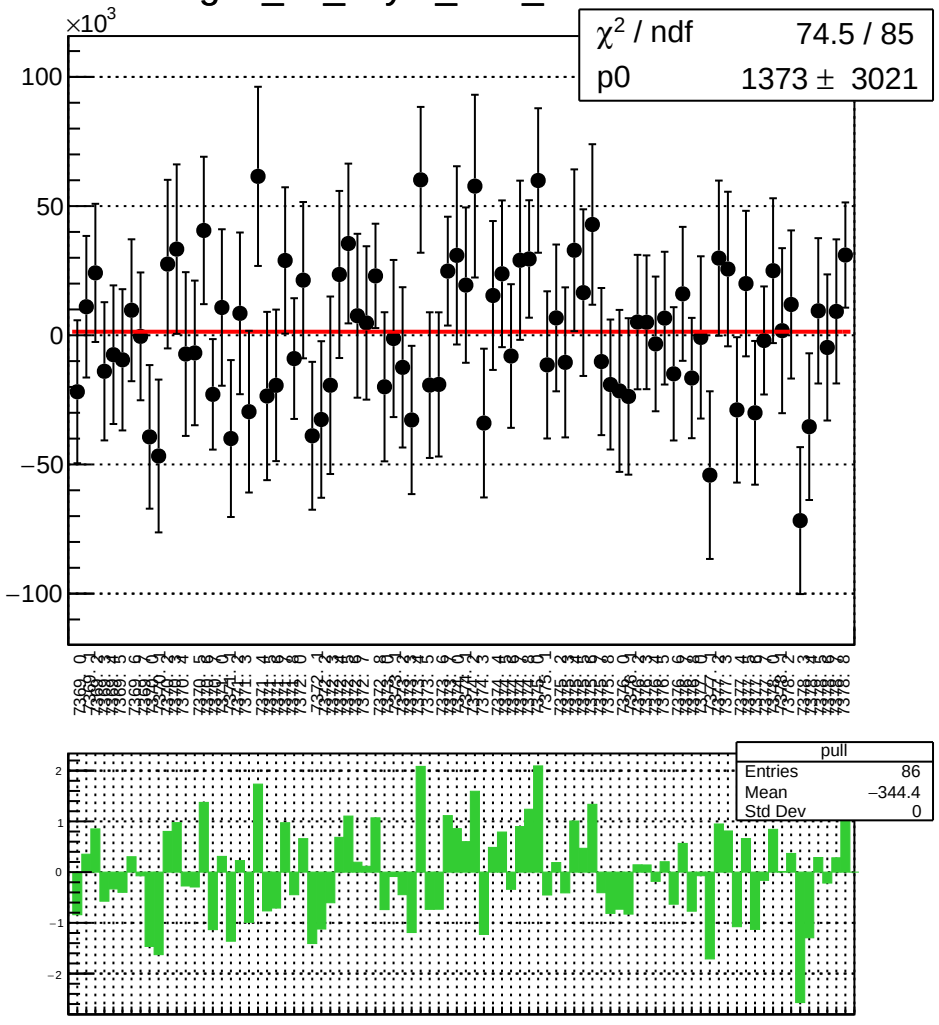

pull1D
Entries 86
Mean −0.001428
Std Dev 0.9307
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

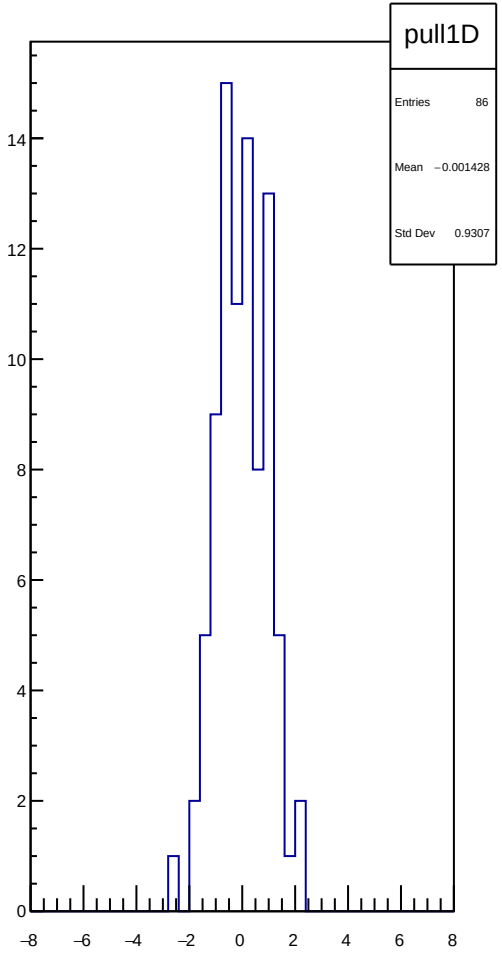

dit_asym_atr2_rms vs run
χ^2 / ndf 7805 / 85
p0 2766 ± 2.136
3400
3200
3000
2800
2600
2400

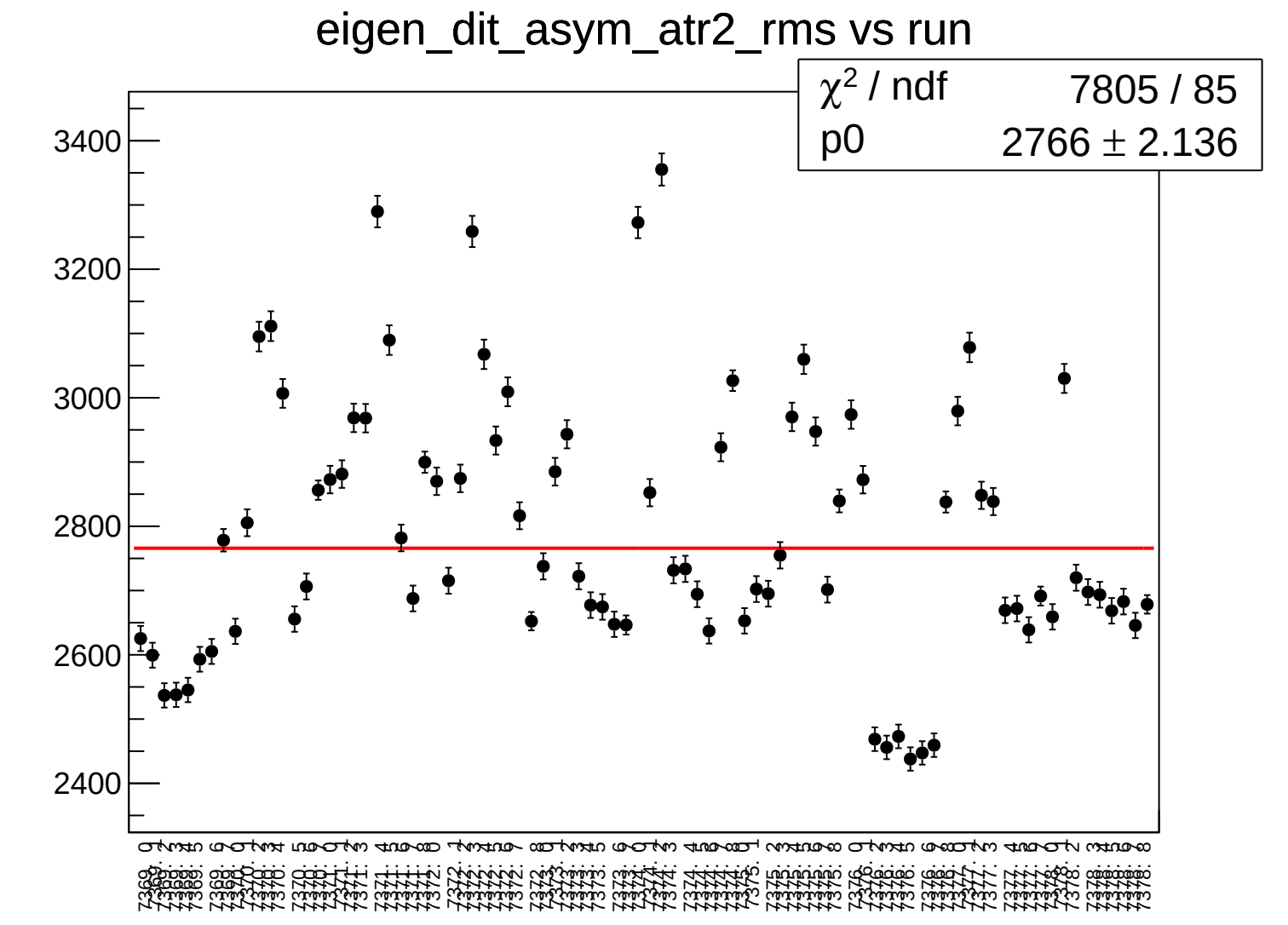

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 98.63 / 85
p0 −1.127e+04 ± 1.018e+04
pull
Entries 86
Mean −402.9
Std Dev 0

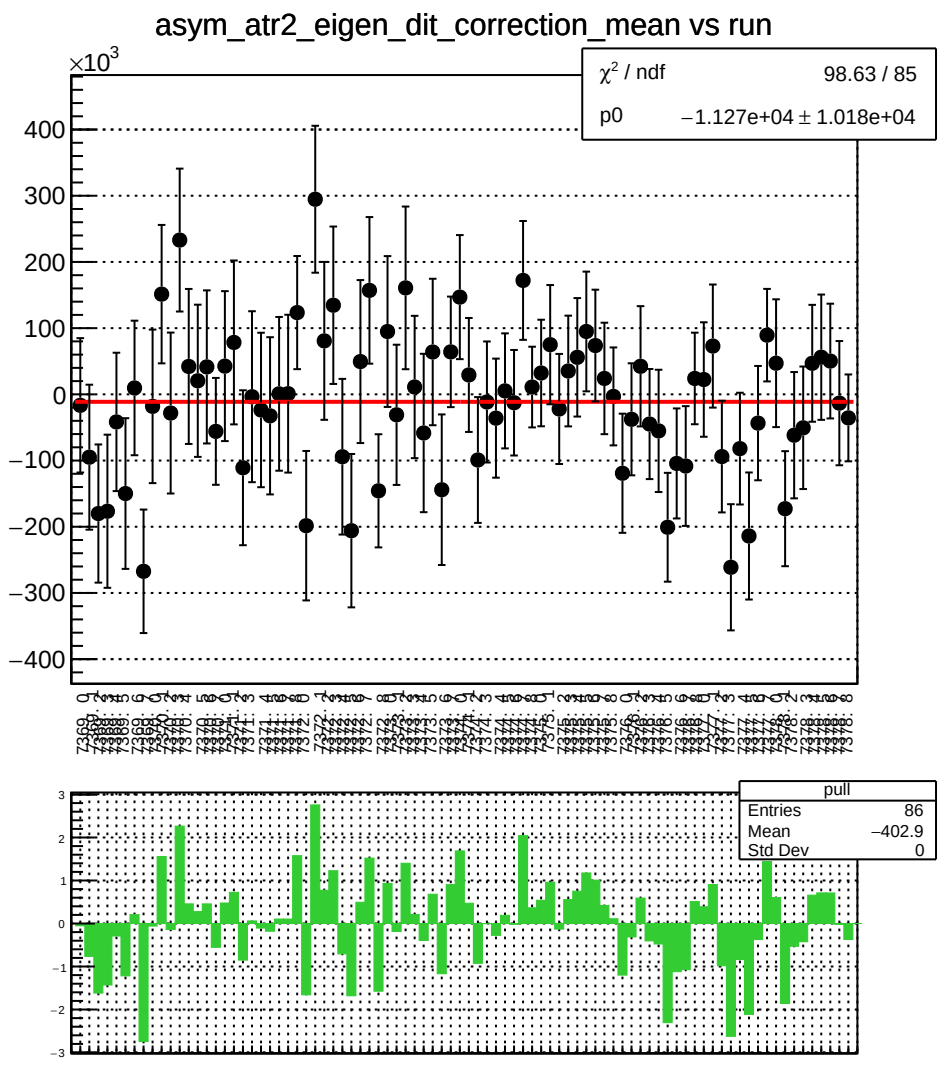

pull1D
Entries 86
Mean 0.00251
Std Dev 1.071

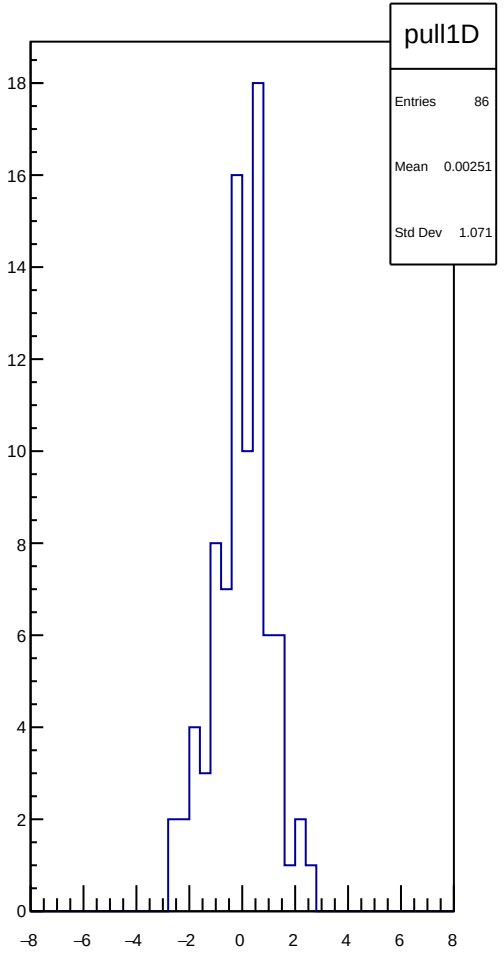

asym_atr2_dit_correction_rms vs run
χ² / ndf 2.972e+04 / 85
p0 9255 ± 7.196
12000
11000
10000
9000
8000

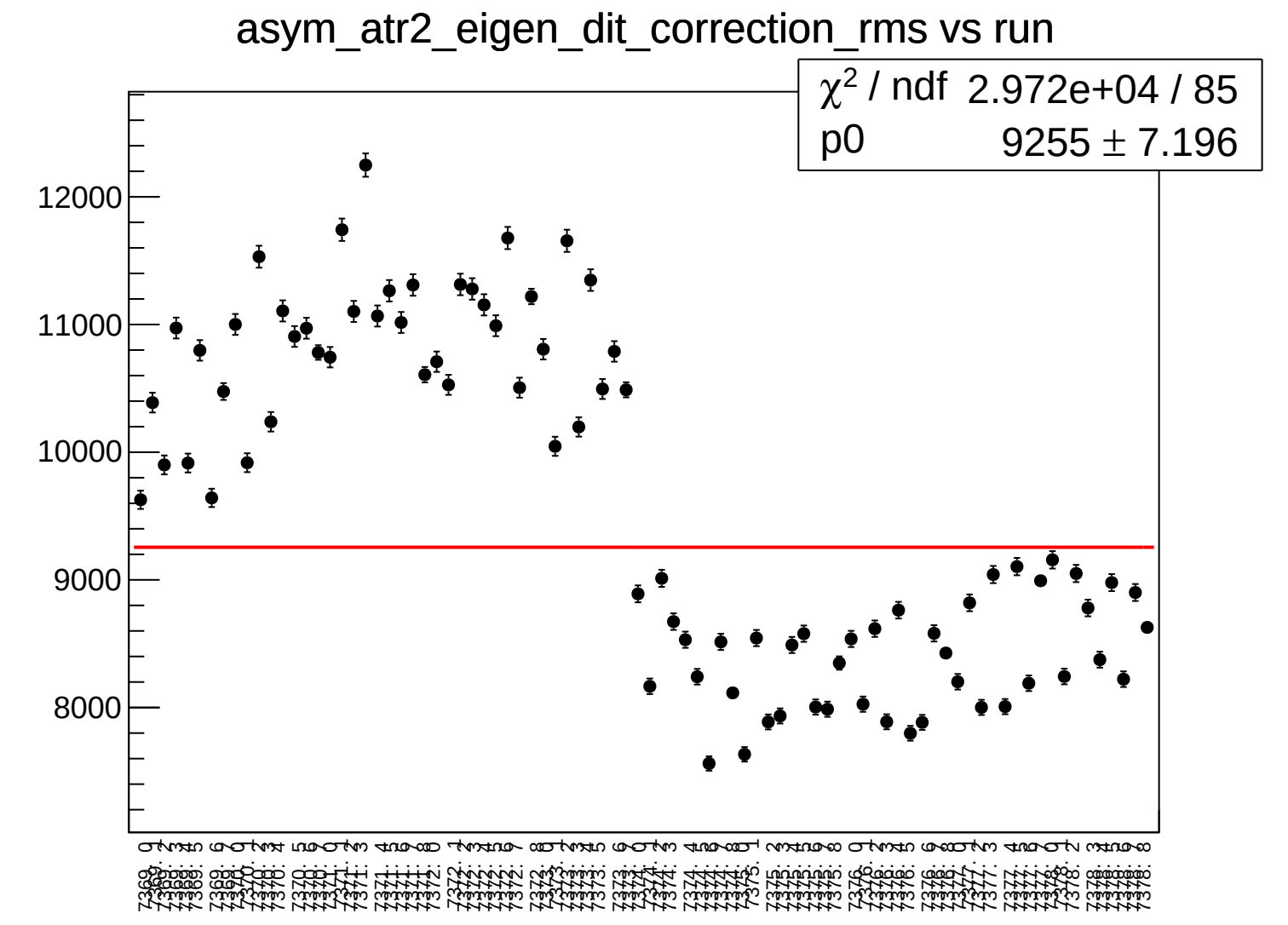

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 74.5 / 85
p0 1373 ± 3021
100
50
0
−50
−100
pull
Entries 86
Mean −344.4
Std Dev 0
2
1
0
−1
−2

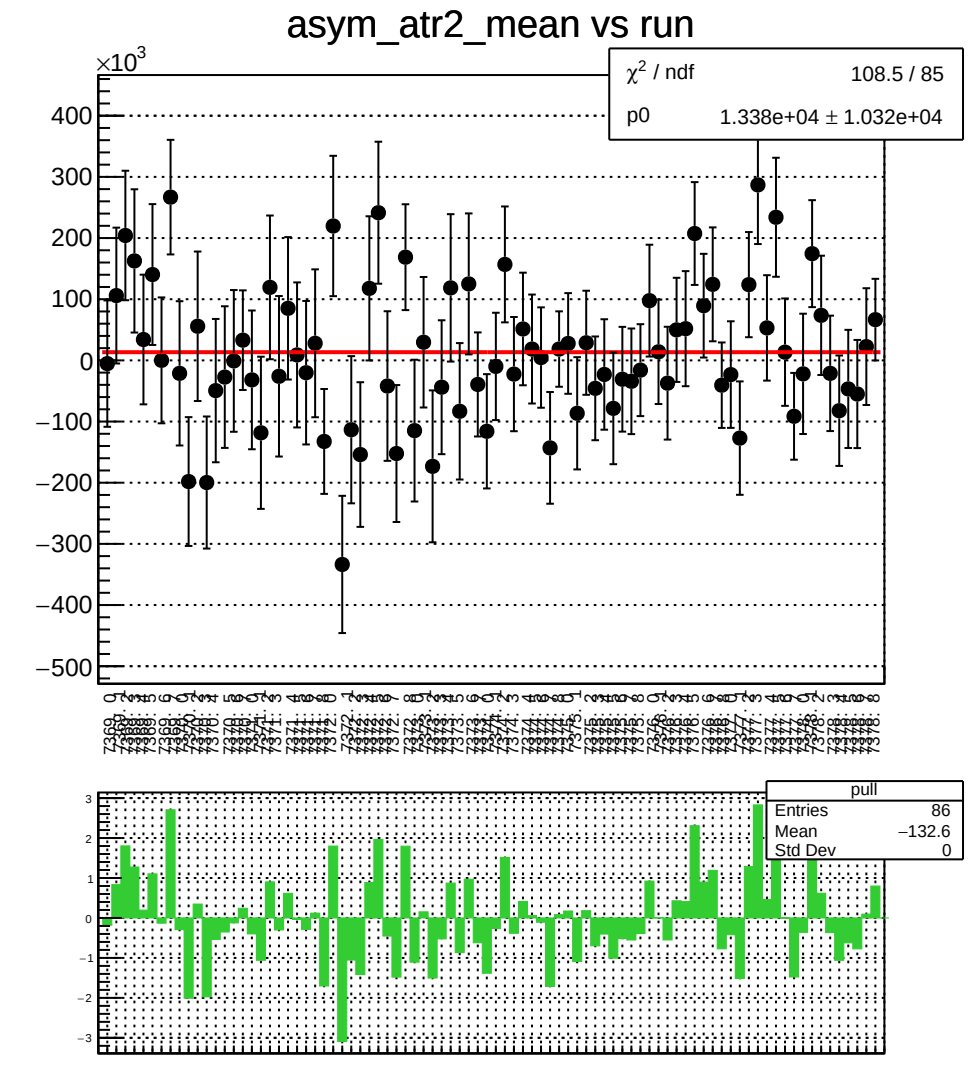

pull1D
Entries 86
Mean −0.001428
Std Dev 0.9307
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

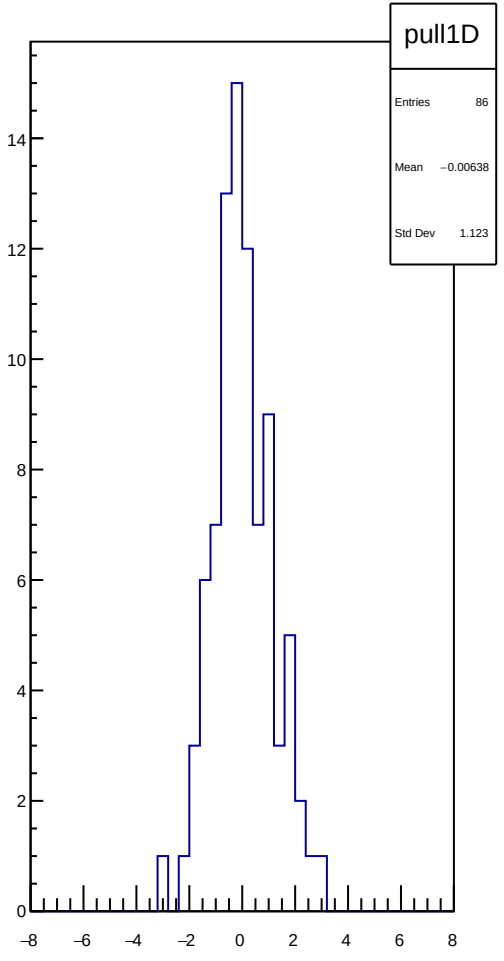

eigen_dit_asym_atr2_rms vs run
χ² / ndf 7805 / 85
p0 2766 ± 2.136
3400
3200
3000
2800
2600
2400

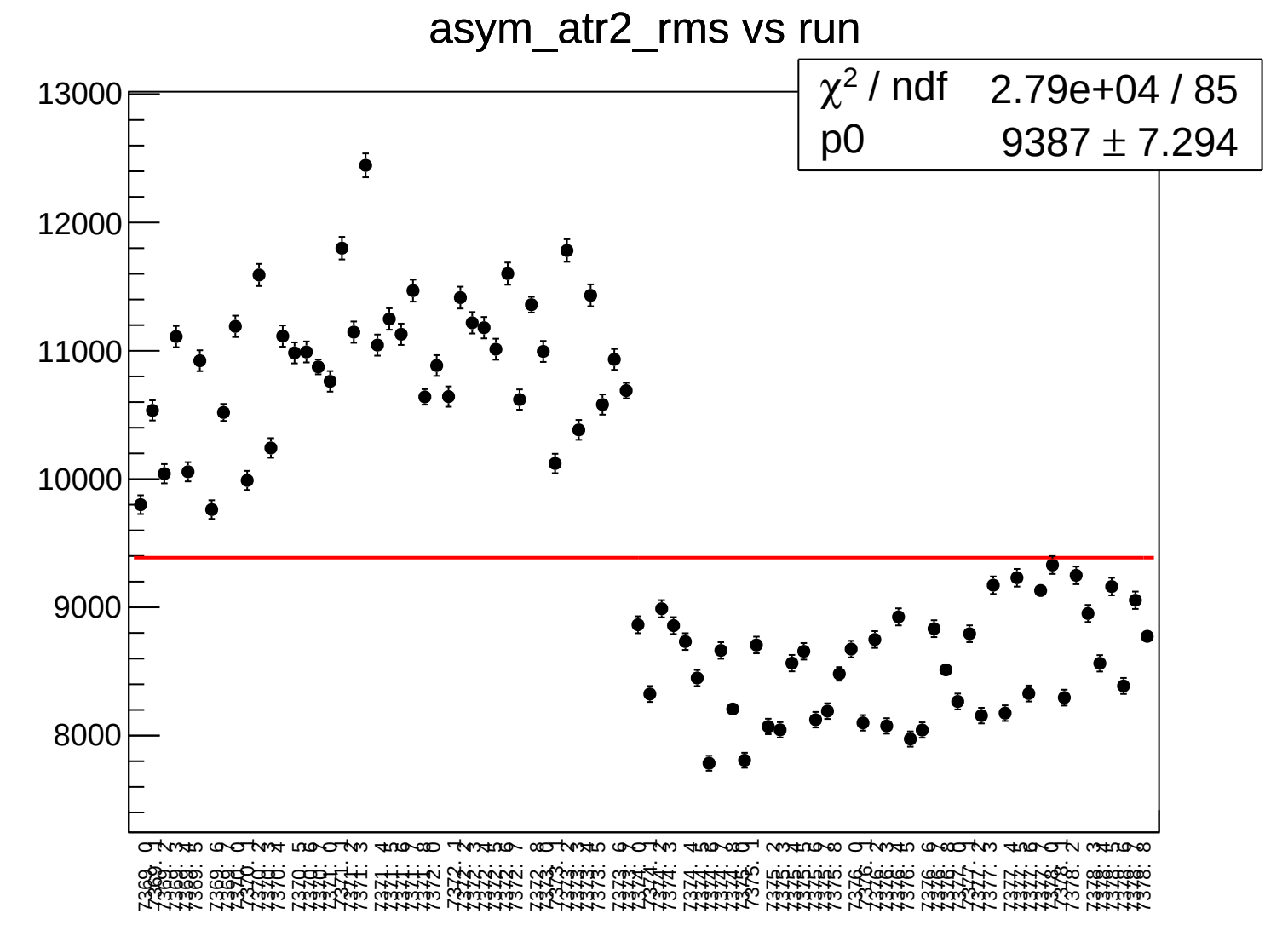

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.63 / 85
p0 −1.127e+04 ± 1.018e+04
pull
Entries 86
Mean −402.9
Std Dev 0

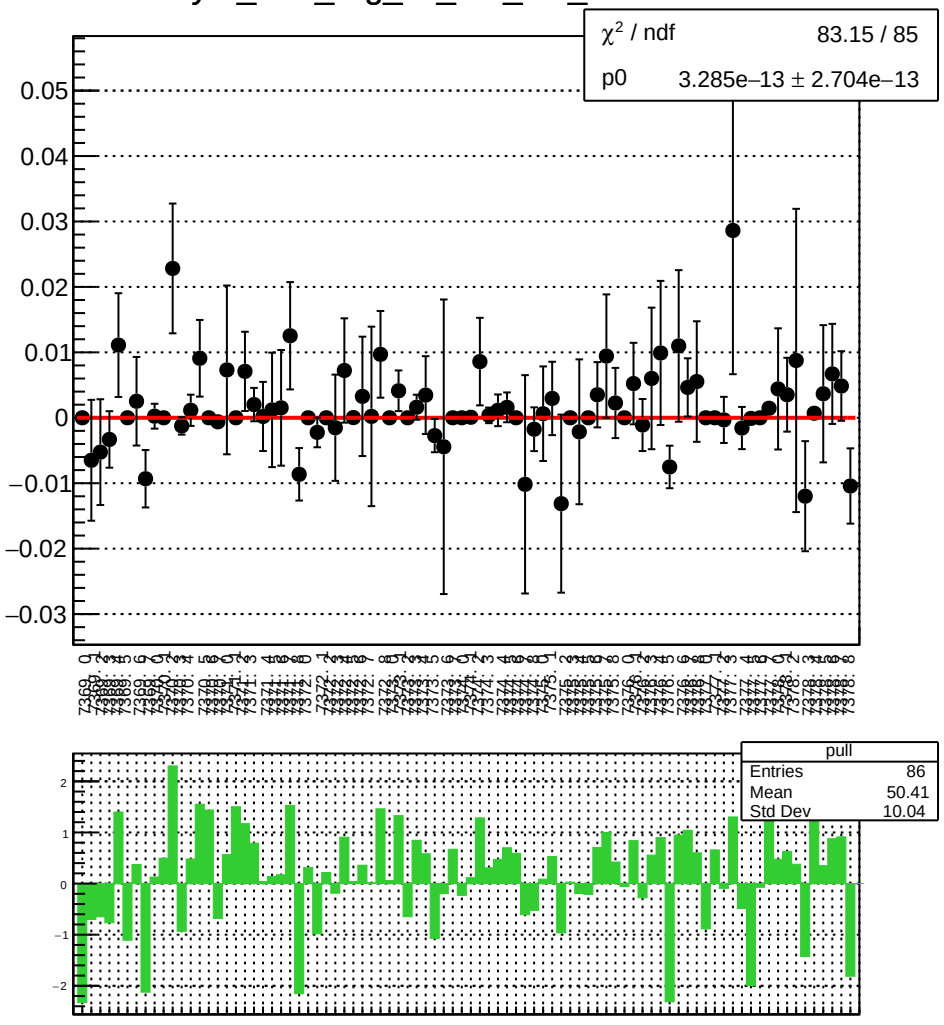

pull1D
Entries 86
Mean 0.00251
Std Dev 1.071

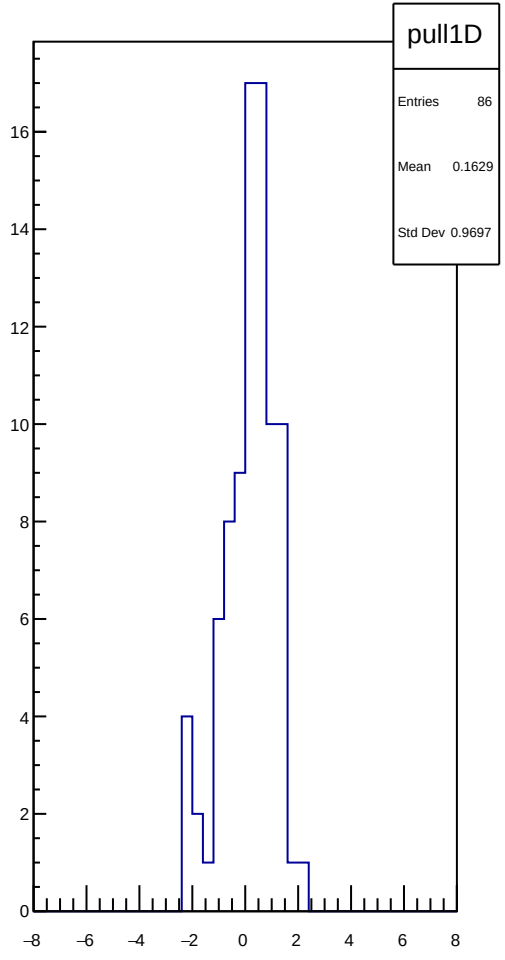

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 2.972e+04 / 85
p0 9255 ± 7.196
12000
11000
10000
9000
8000

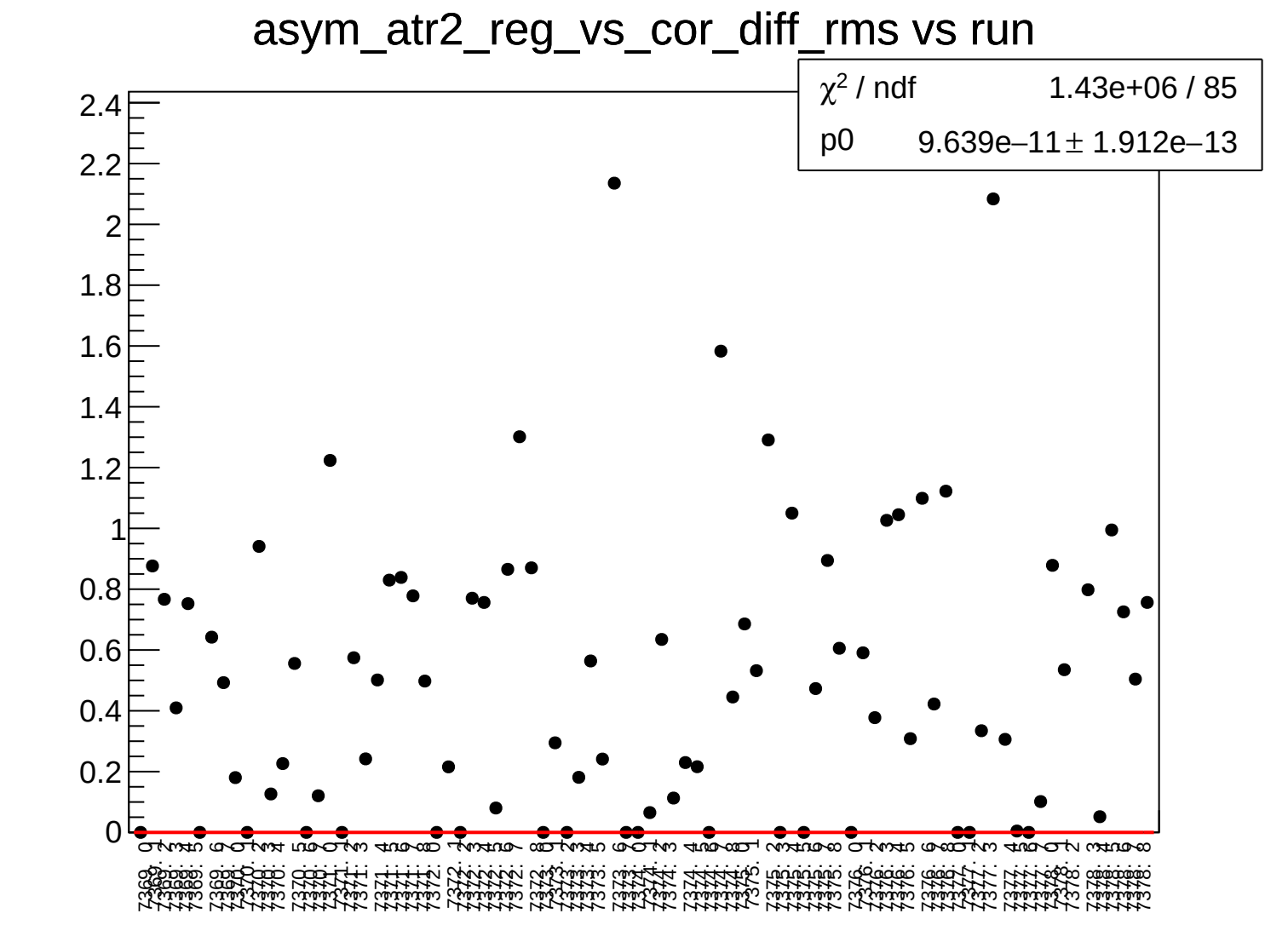

asym_atr2_mean vs run
×10^3
χ² / ndf 108.5 / 85
p0 1.338e+04 ± 1.032e+04
pull
Entries 86
Mean −132.6
Std Dev 0

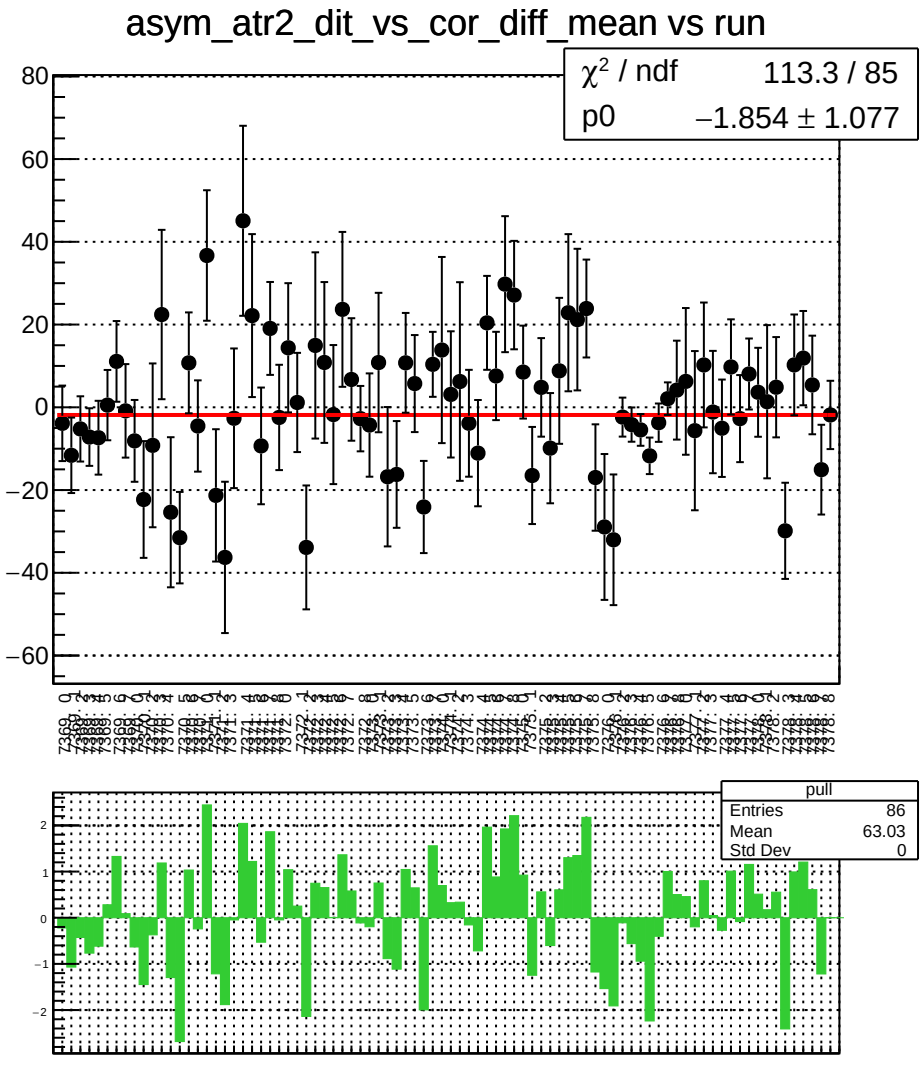

pull1D
Entries 86
Mean −0.00638
Std Dev 1.123

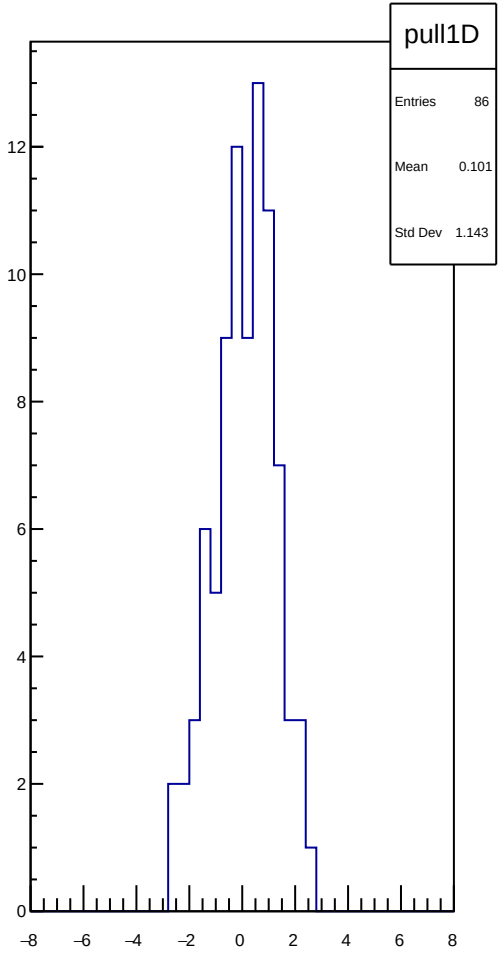

asym_atr2_rms vs run
χ² / ndf 2.79e+04 / 85
p0 9387 ± 7.294
13000
12000
11000
10000
9000
8000

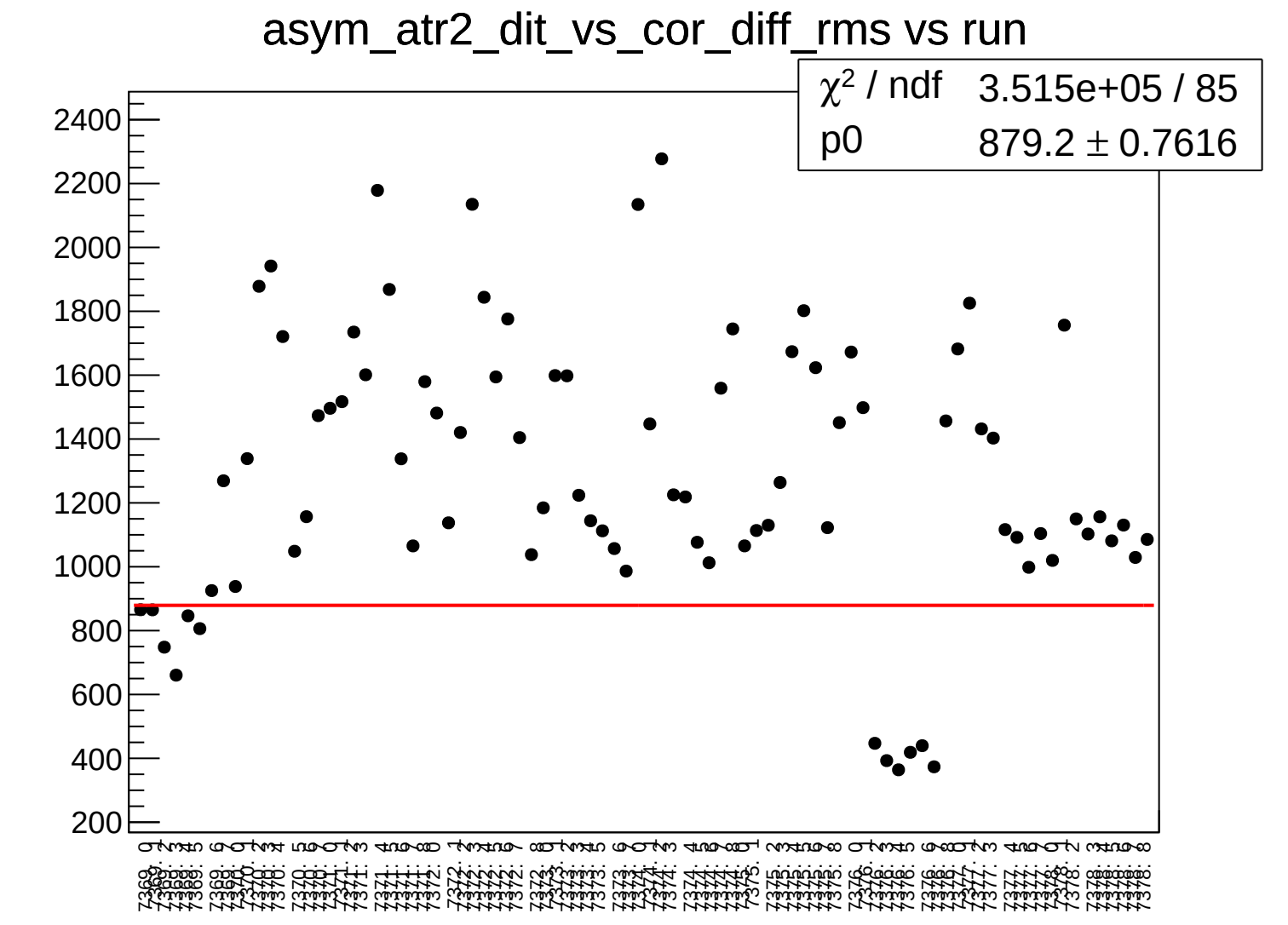

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 83.15 / 85
p0 3.285e−13 ± 2.704e−13
pull
Entries 86
Mean 50.41
Std Dev 10.04

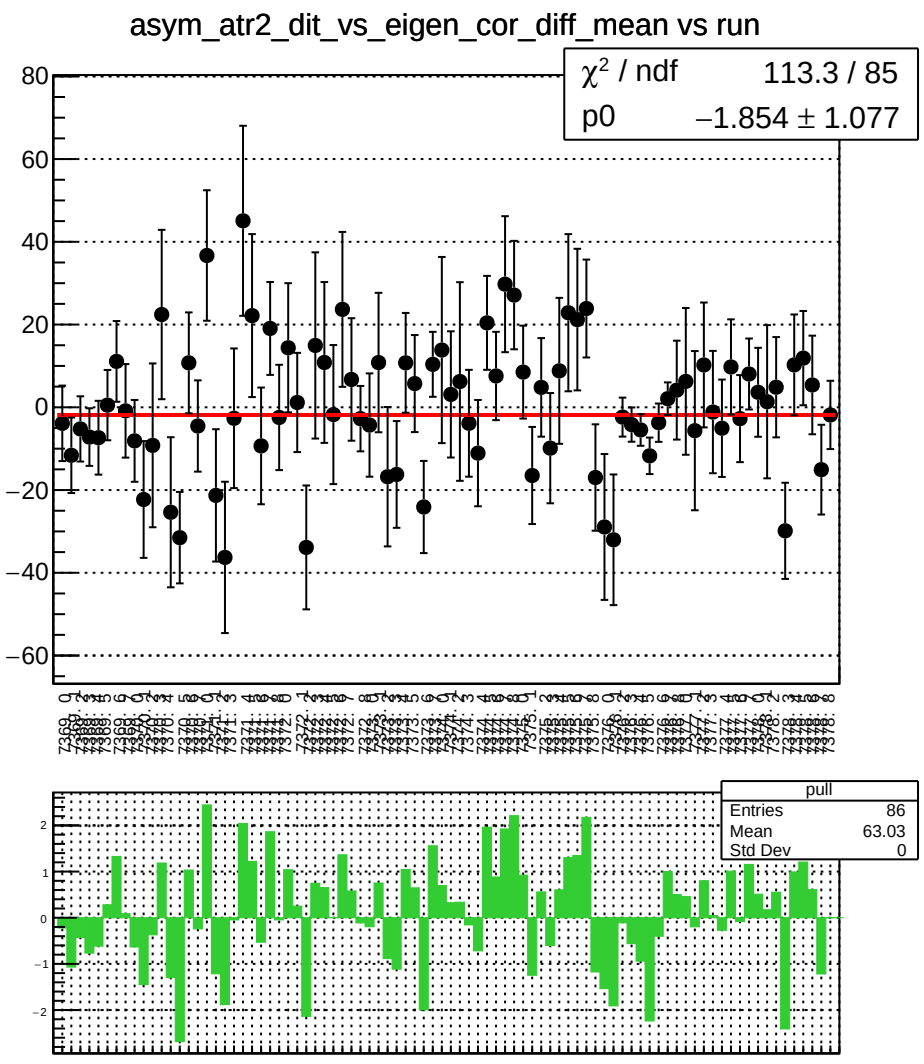

pull1D
Entries 86
Mean 0.1629
Std Dev 0.9697

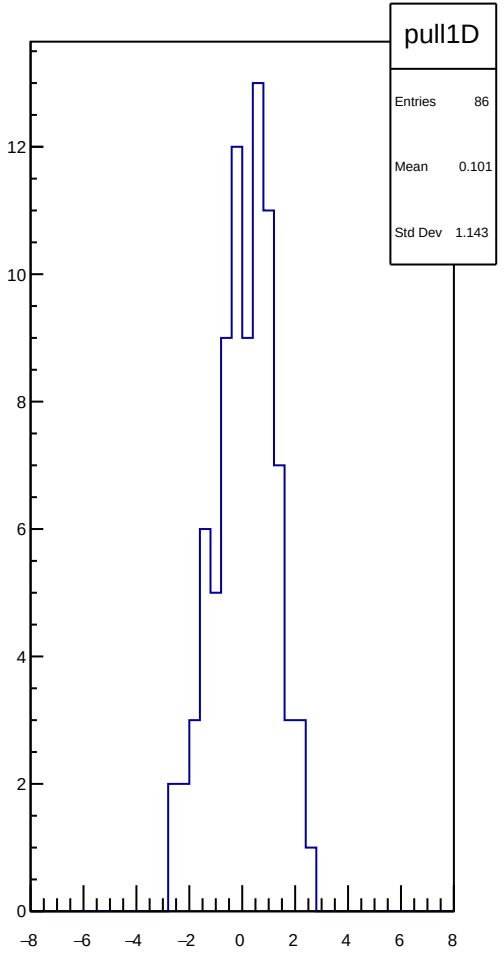

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.43e+06 / 85
p0 9.639e−11 ± 1.912e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

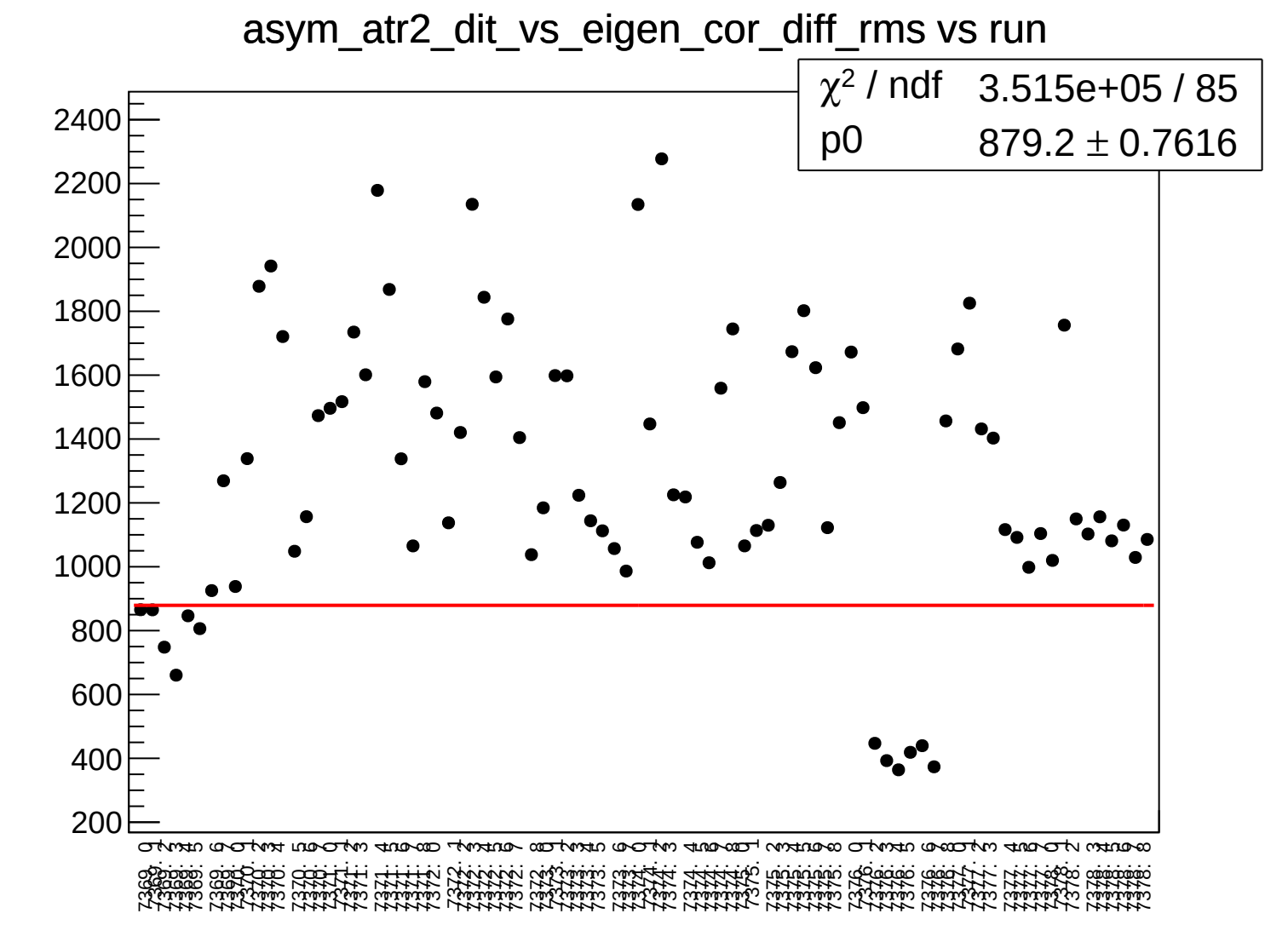

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 113.3 / 85
p0 −1.854 ± 1.077
pull
Entries 86
Mean 63.03
Std Dev 0

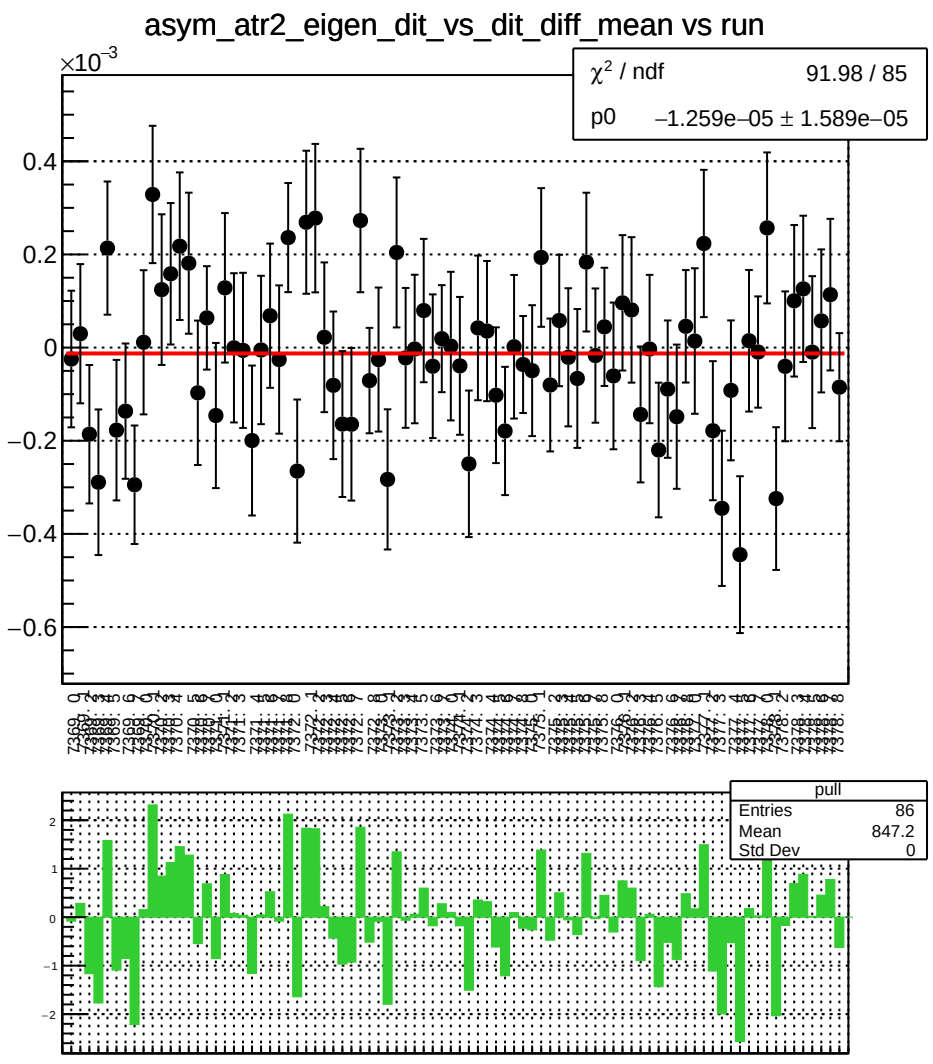

pull1D
Entries 86
Mean 0.101
Std Dev 1.143

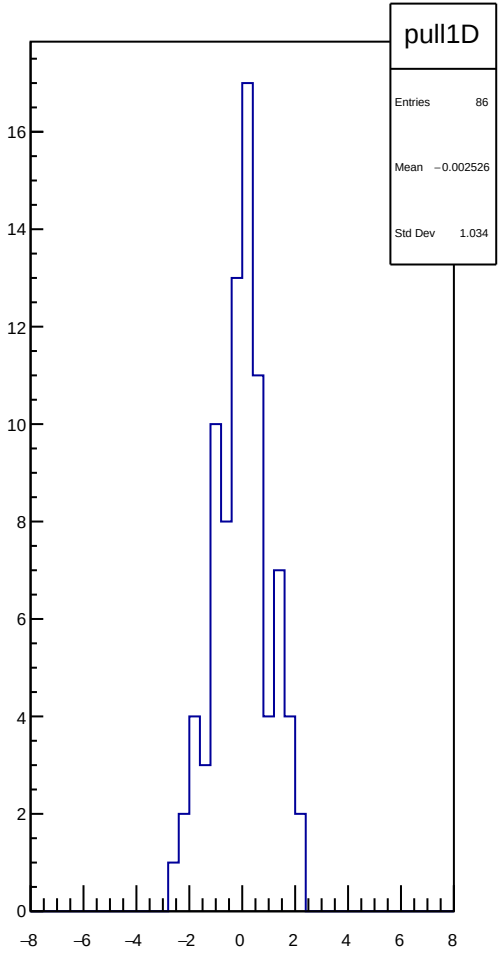

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.515e+05 / 85
p0 879.2 ± 0.7616
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

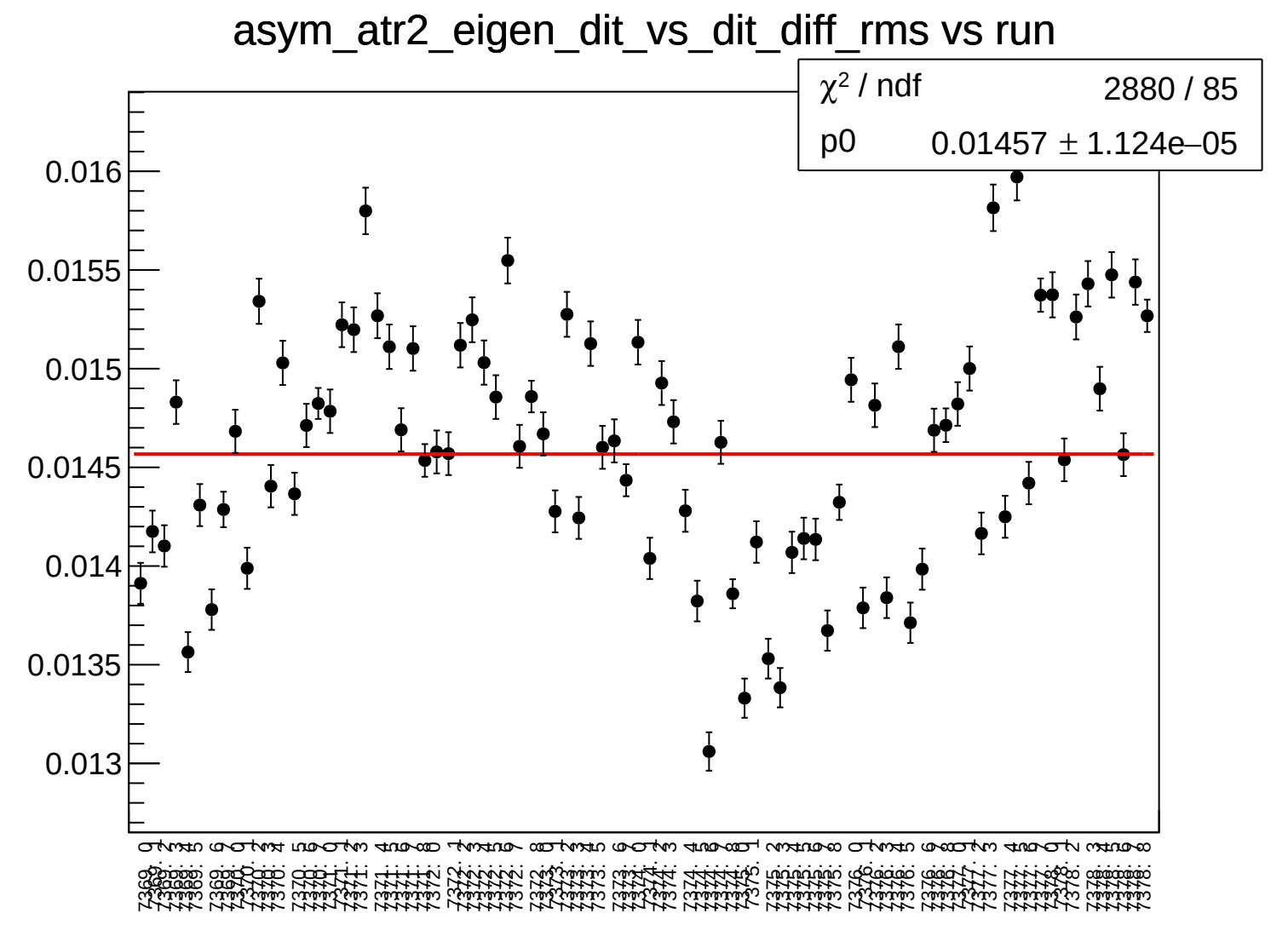

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.3 / 85
p0 −1.854 ± 1.077
pull
Entries 86
Mean 63.03
Std Dev 0

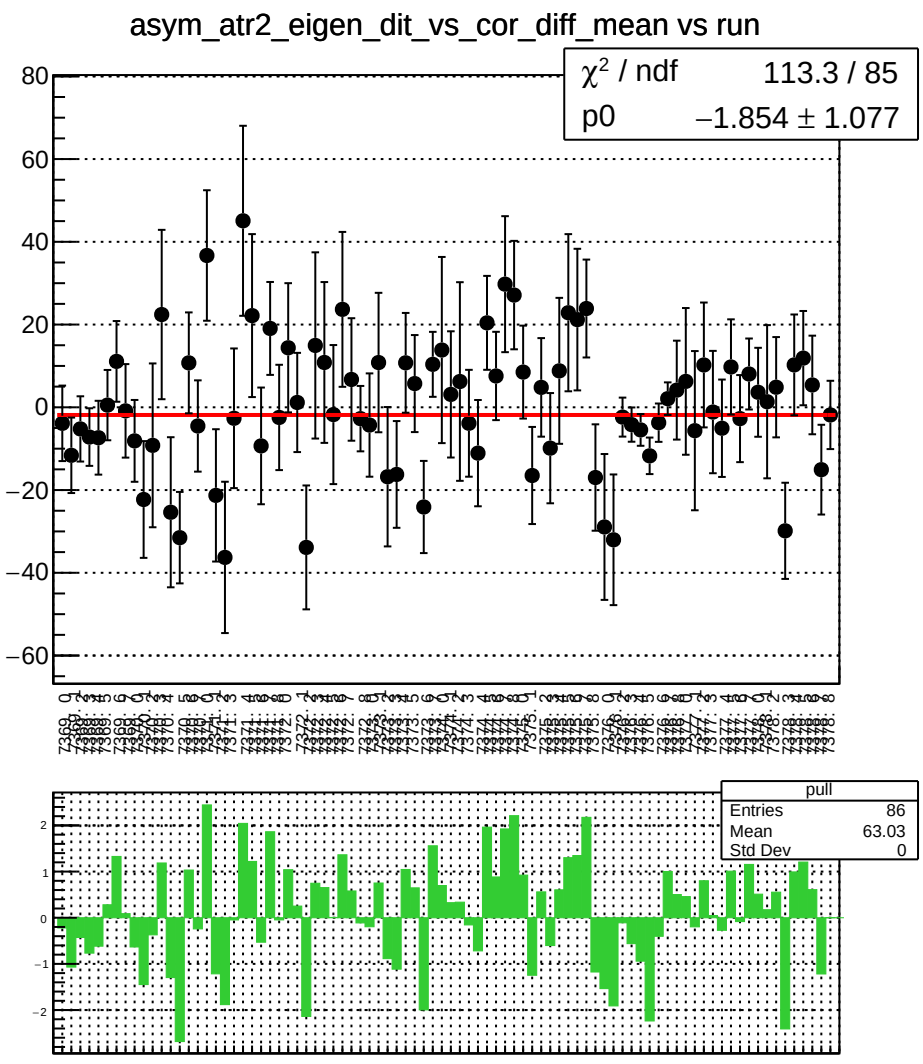

pull1D
Entries 86
Mean 0.101
Std Dev 1.143

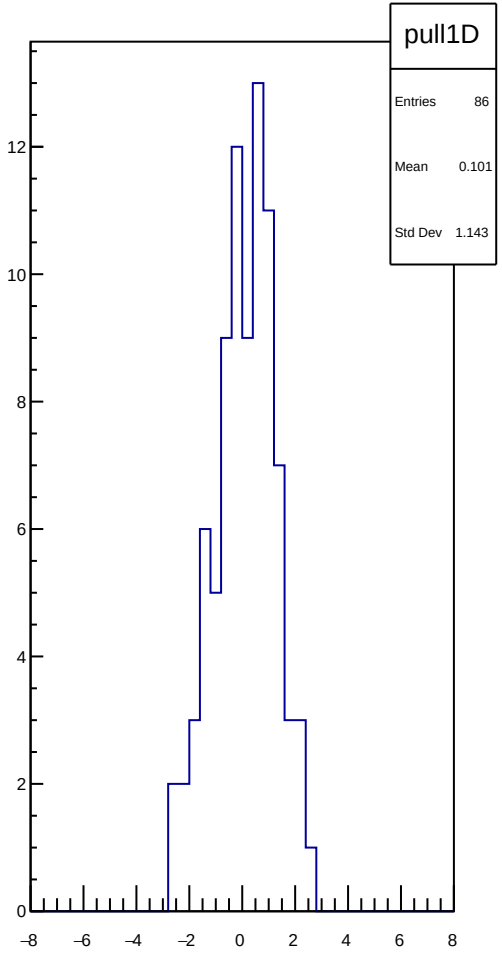

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.515e+05 / 85
p0 879.2 ± 0.7616
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

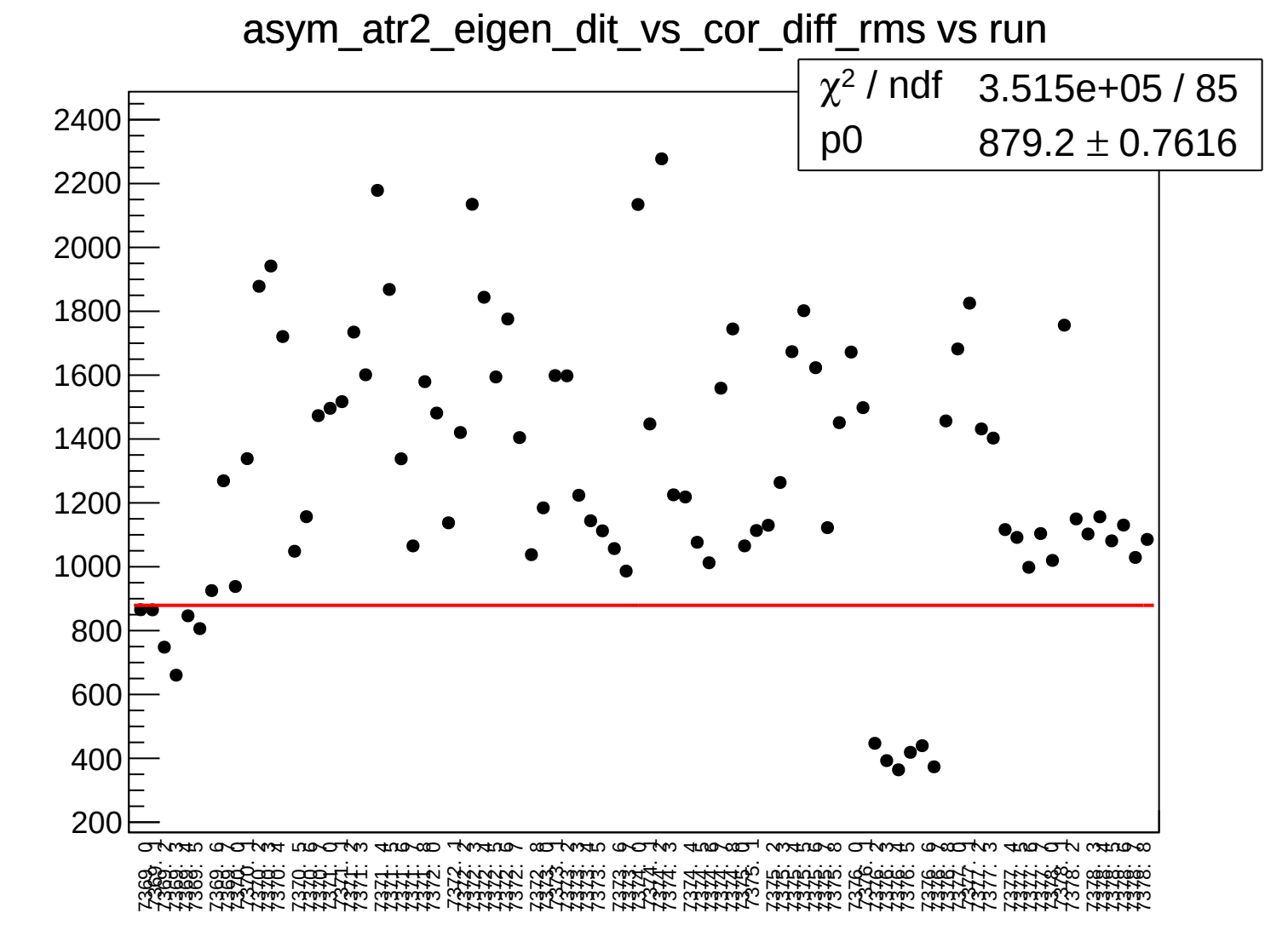

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.98 / 85
p0 −1.259e−05 ± 1.589e−05
pull
Entries 86
Mean 847.2
Std Dev 0

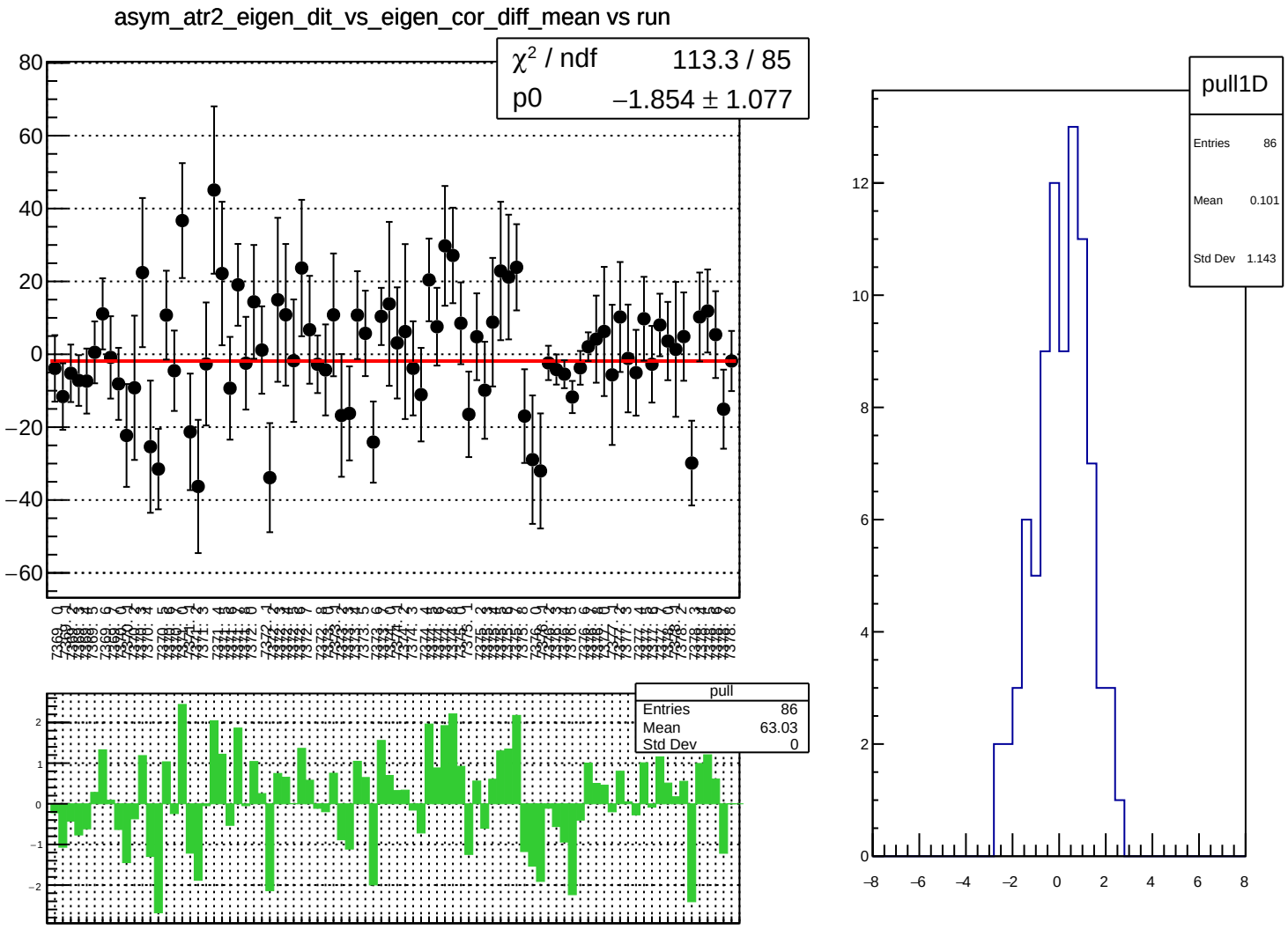

pull1D
Entries 86
Mean −0.002526
Std Dev 1.034

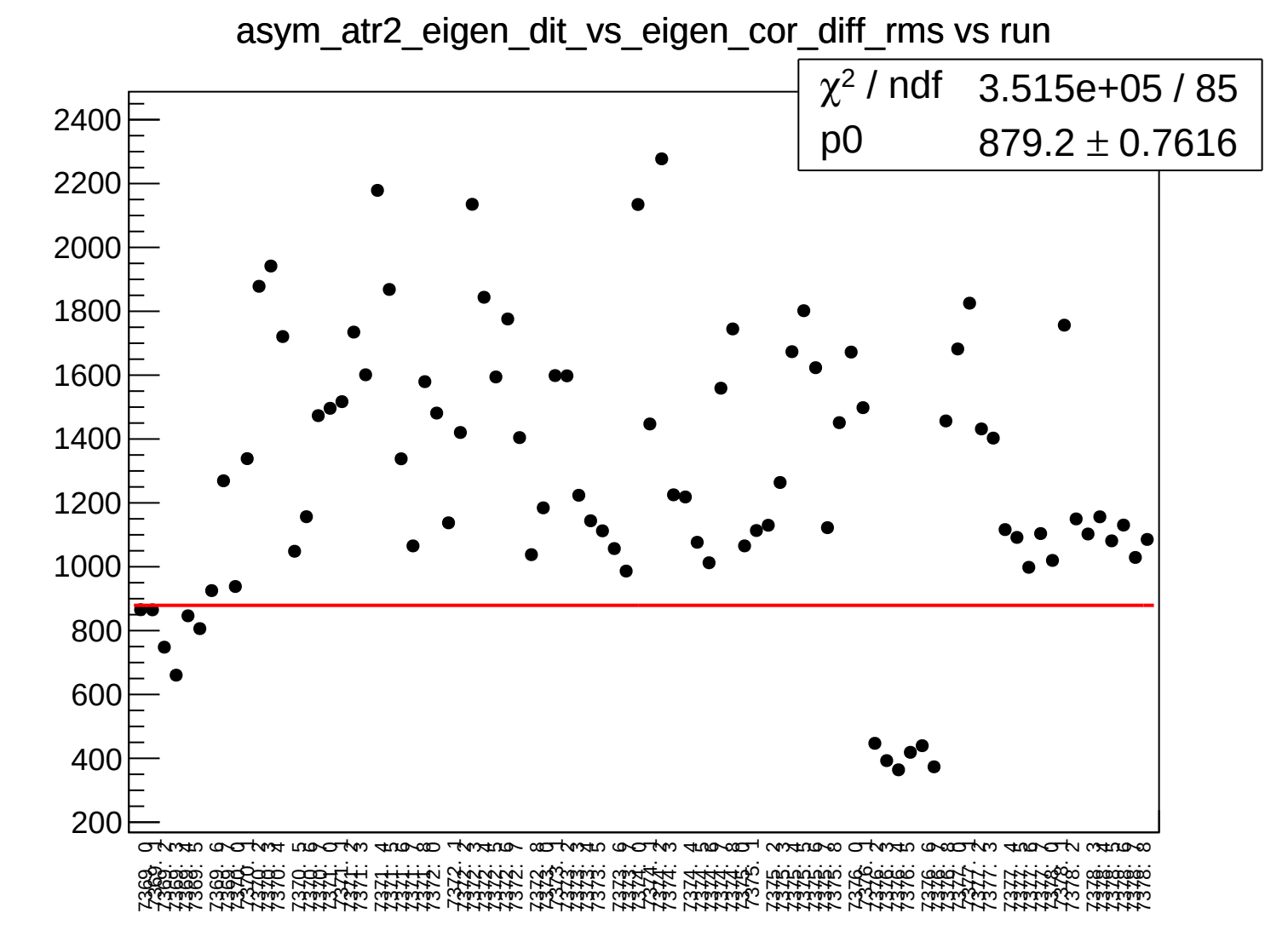

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2880 / 85
p0 0.01457 ± 1.124e−05
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013

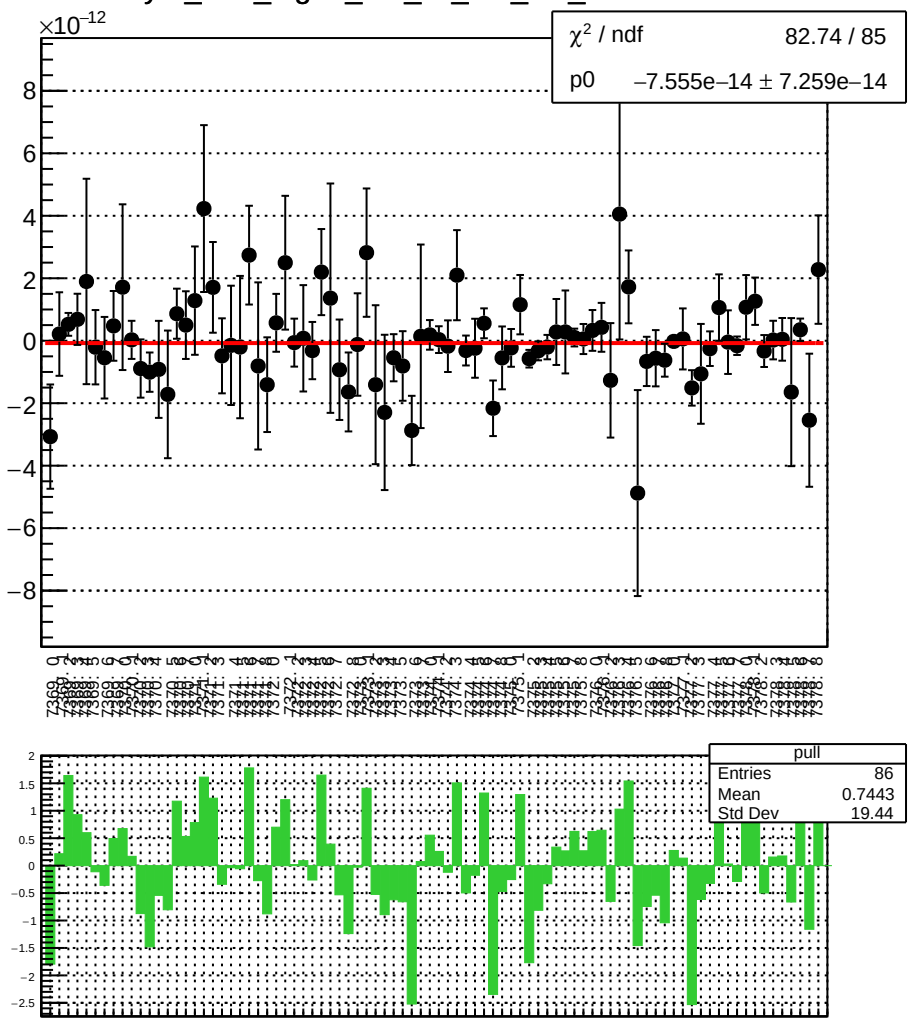

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.3 / 85
p0 −1.854 ± 1.077
pull
Entries 86
Mean 63.03
Std Dev 0

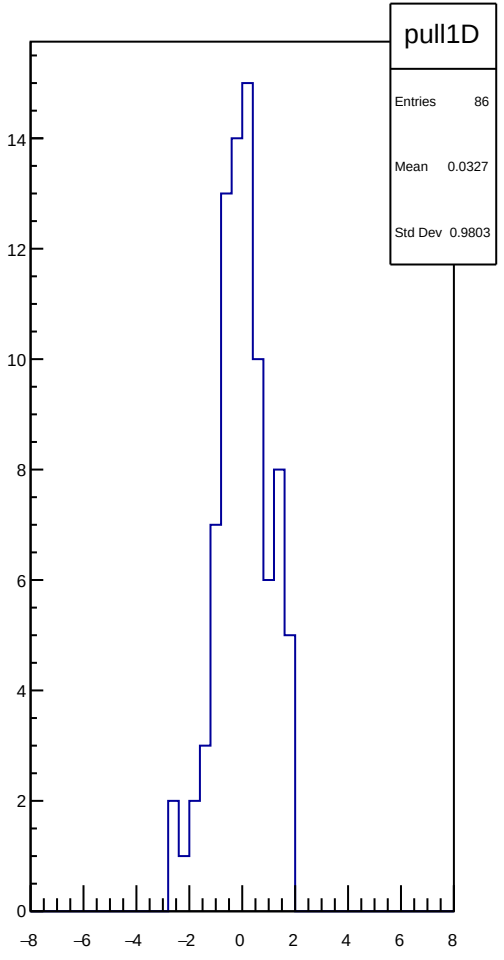

pull1D
Entries 86
Mean 0.101
Std Dev 1.143

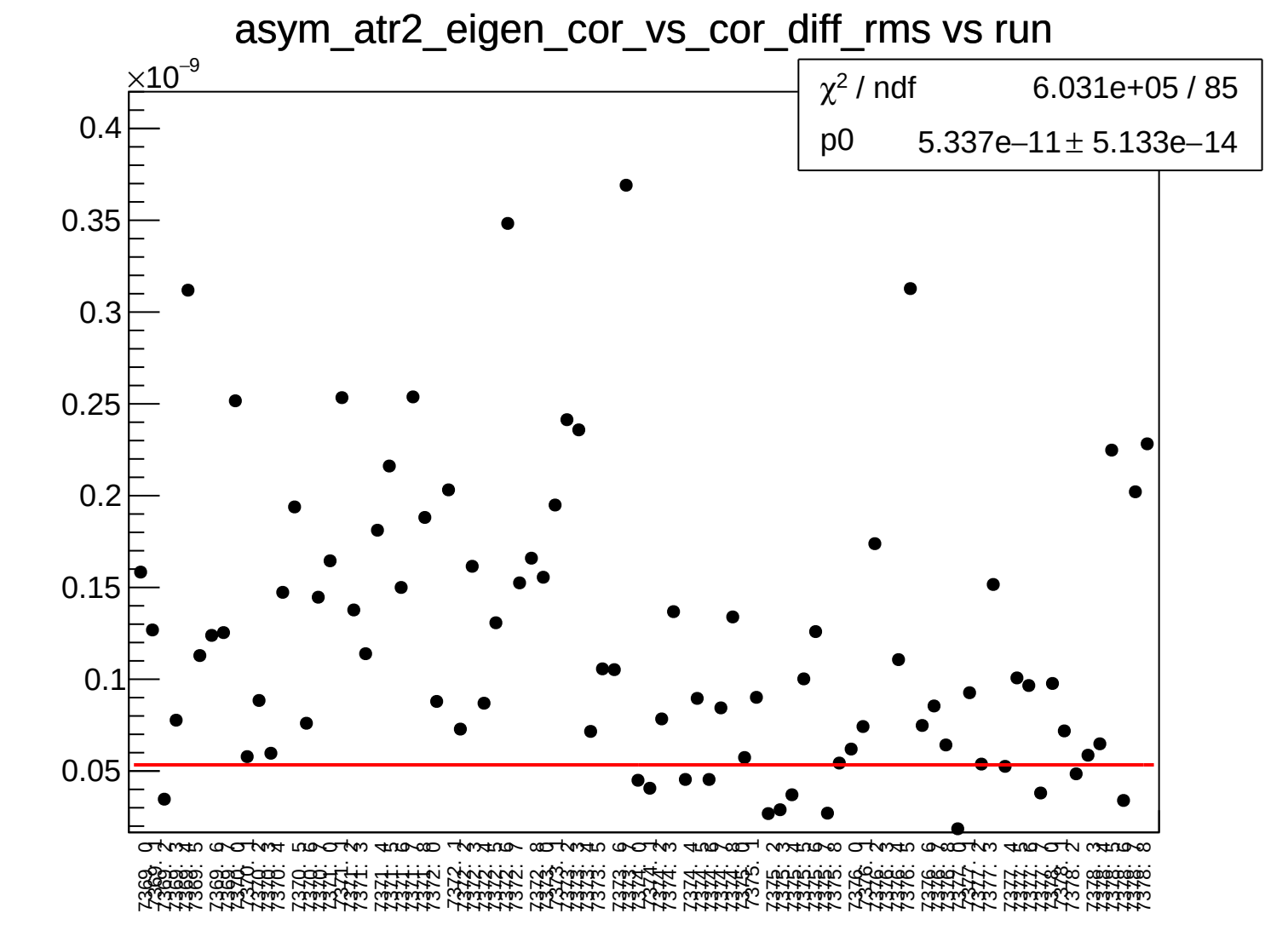

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.515e+05 / 85
p0 879.2 ± 0.7616
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

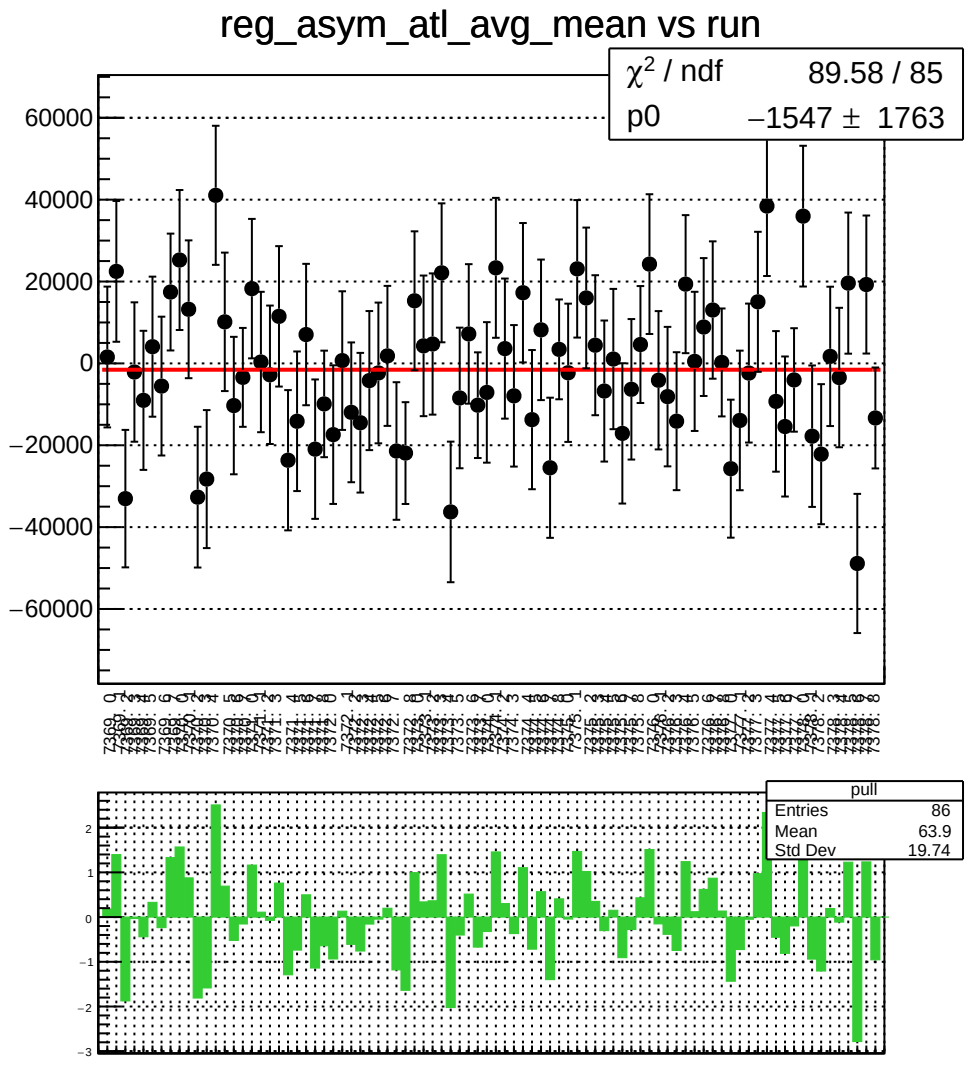

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.3 / 85
p0 −1.854 ± 1.077
pull
Entries 86
Mean 63.03
Std Dev 0
pull1D
Entries 86
Mean 0.101
Std Dev 1.143

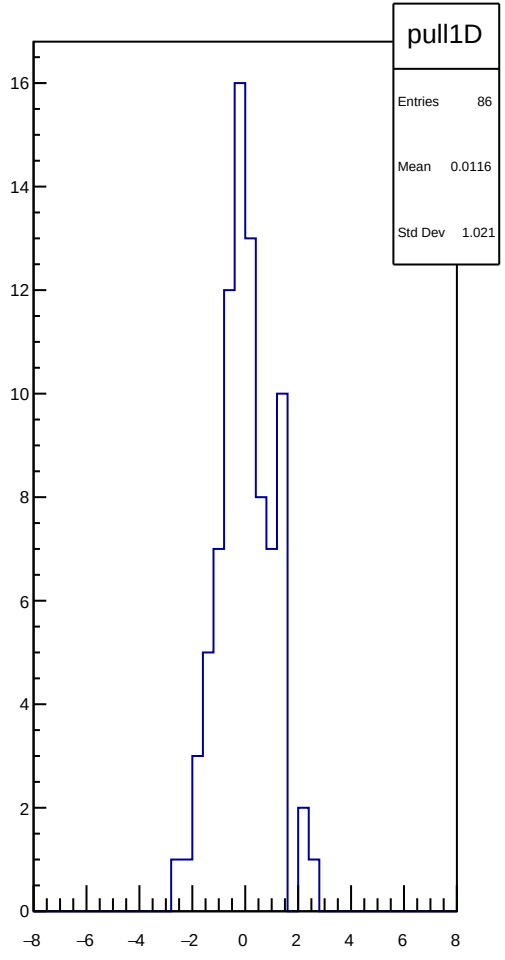

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.515e+05 / 85
p0 879.2 ± 0.7616
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

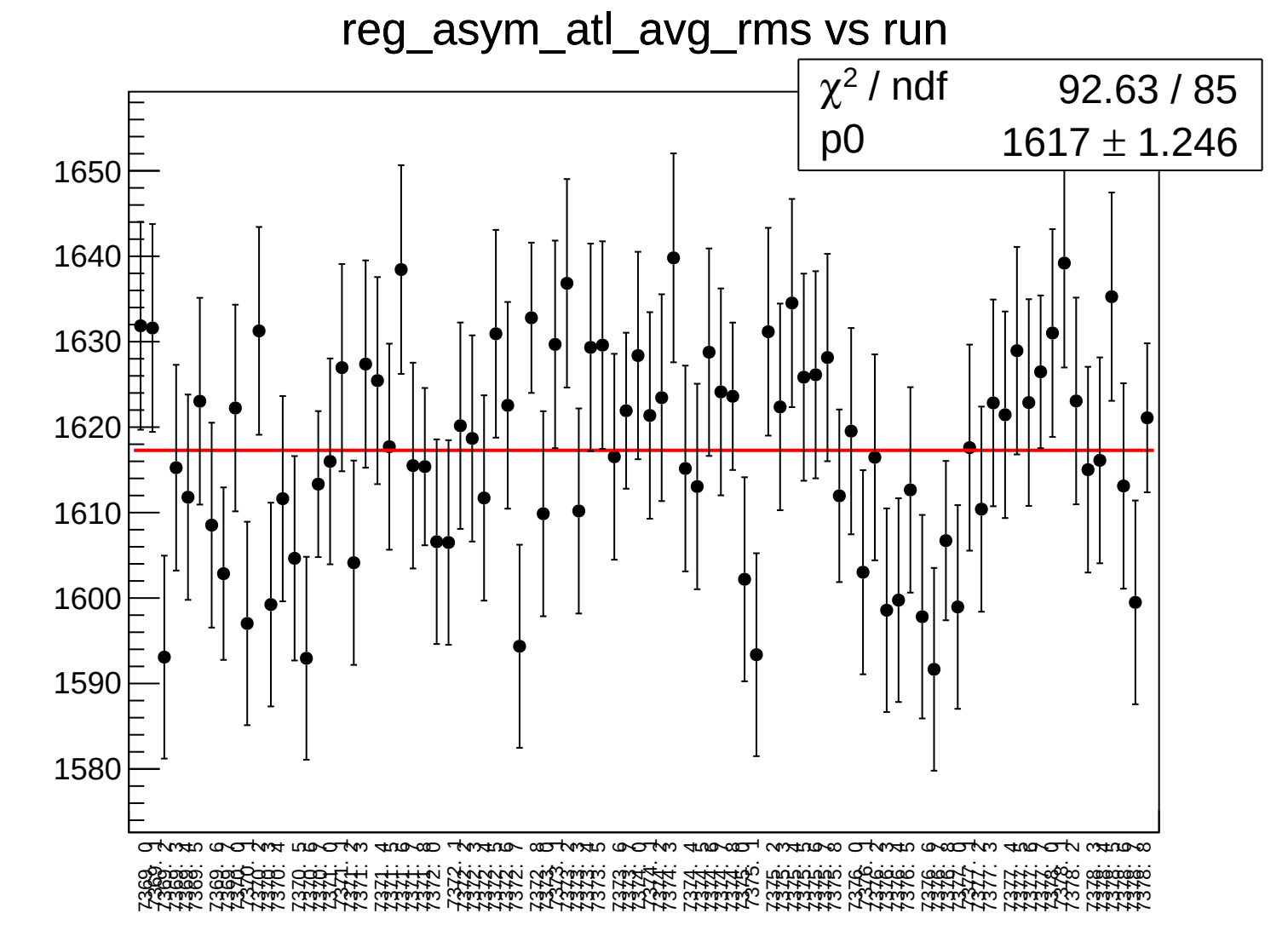

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.74 / 85
p0 −7.555e−14 ± 7.259e−14
pull
Entries 86
Mean 0.7443
Std Dev 19.44

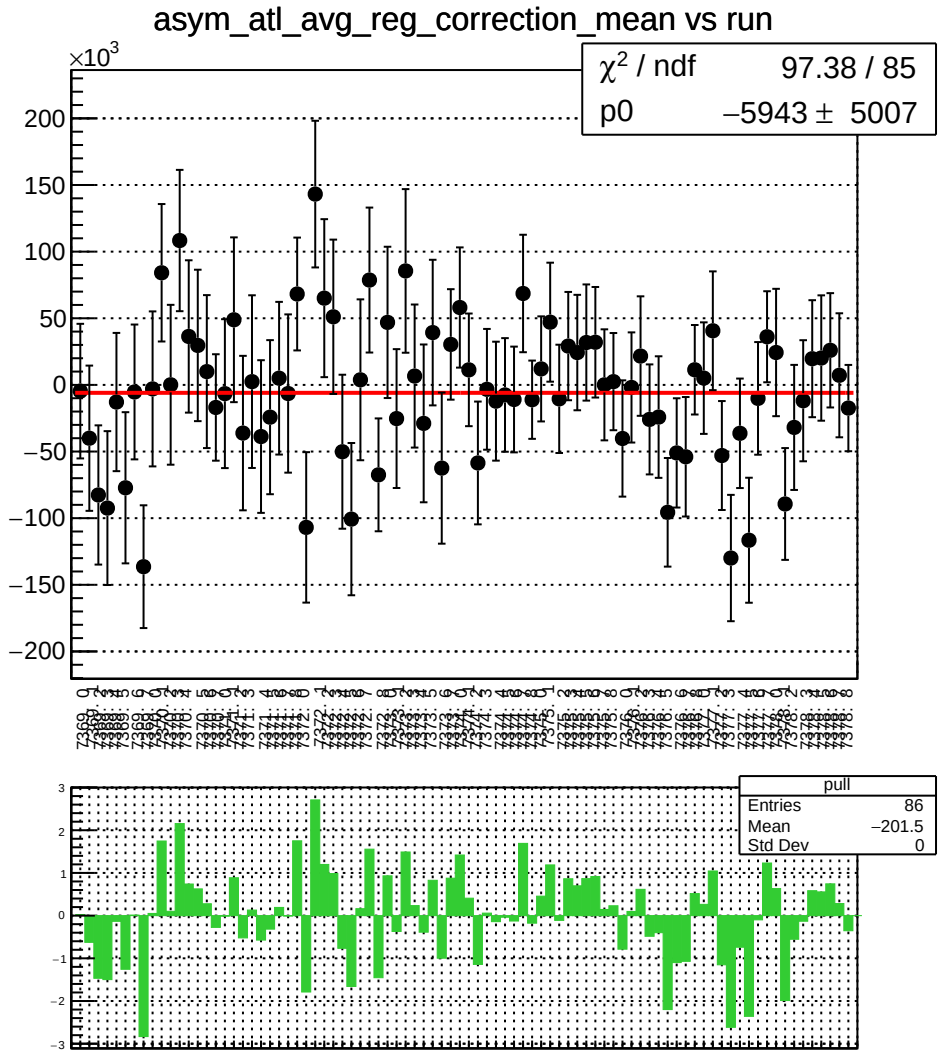

pull1D
Entries 86
Mean 0.0327
Std Dev 0.9803

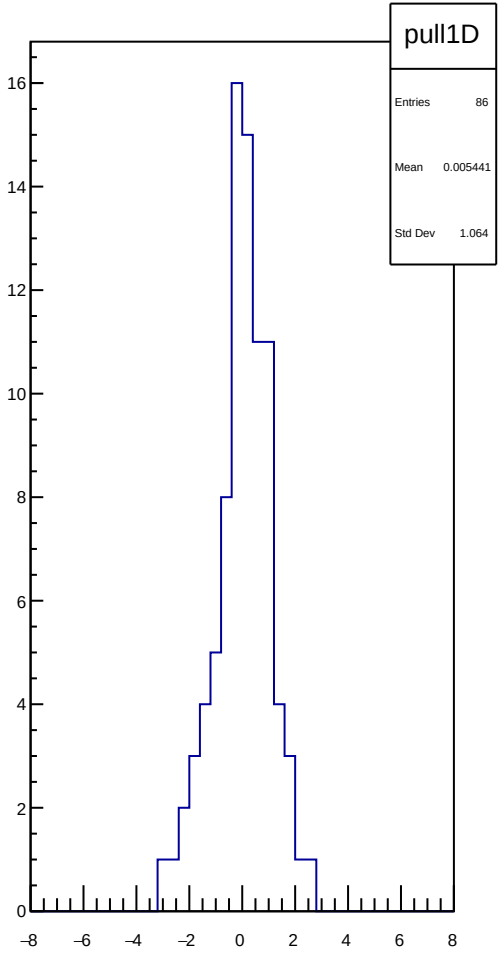

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.031e+05 / 85
p0 5.337e−11 ± 5.133e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

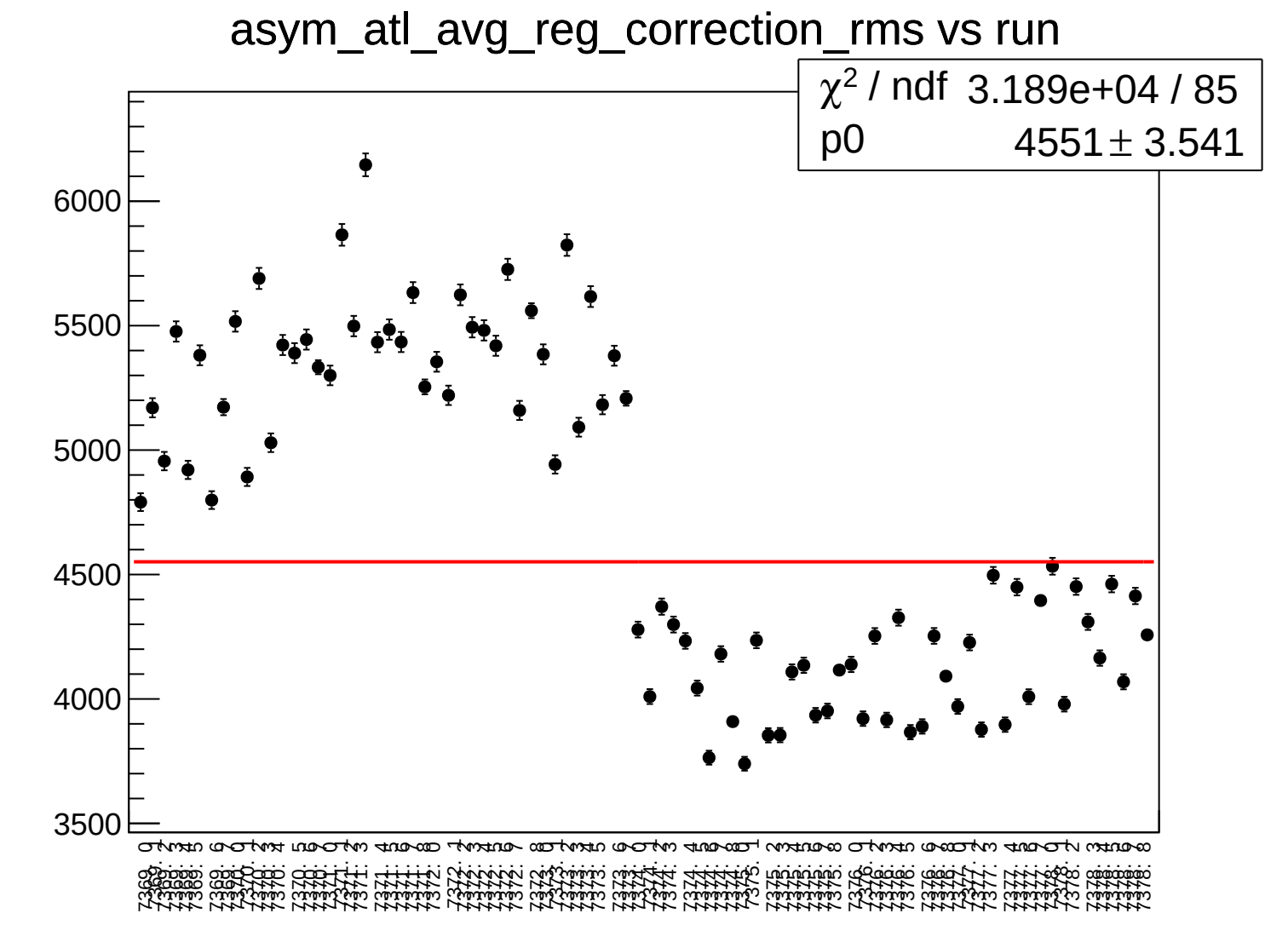

reg_asym_atl_avg_mean vs run
χ^2 / ndf 89.58 / 85
p0 −1547 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 63.9
Std Dev 19.74
2
1
0
−1
−2
−3

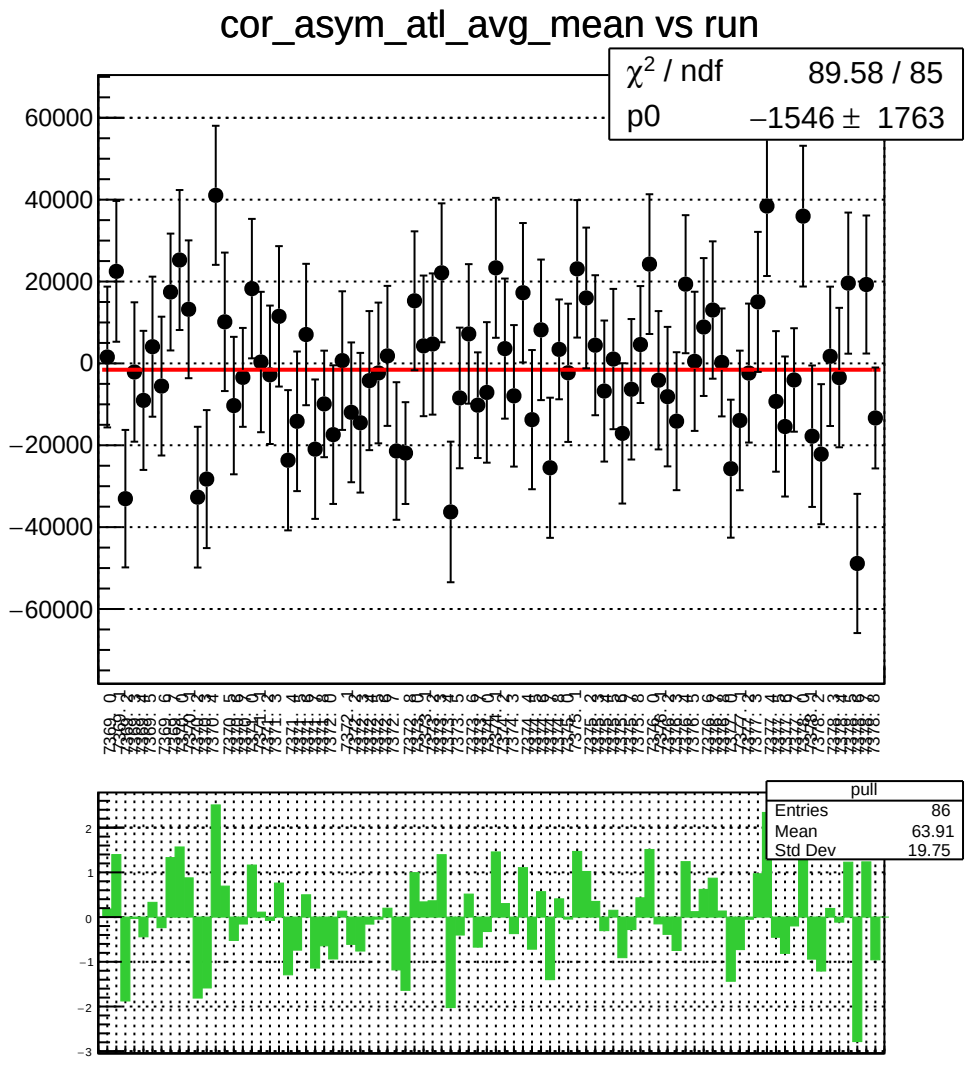

pull1D
Entries 86
Mean 0.0116
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

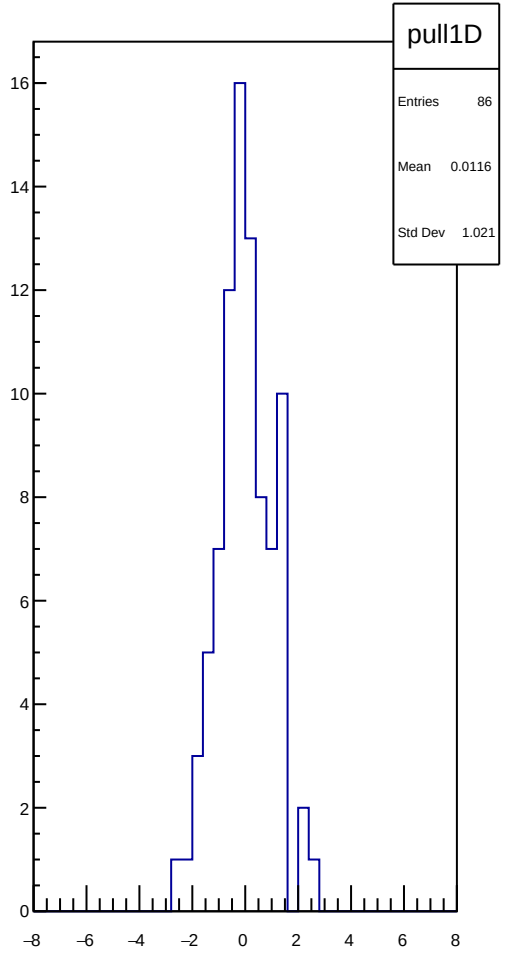

reg_asym_atl_avg_rms vs run
χ² / ndf 92.63 / 85
p0 1617 ± 1.246
1650
1640
1630
1620
1610
1600
1590
1580

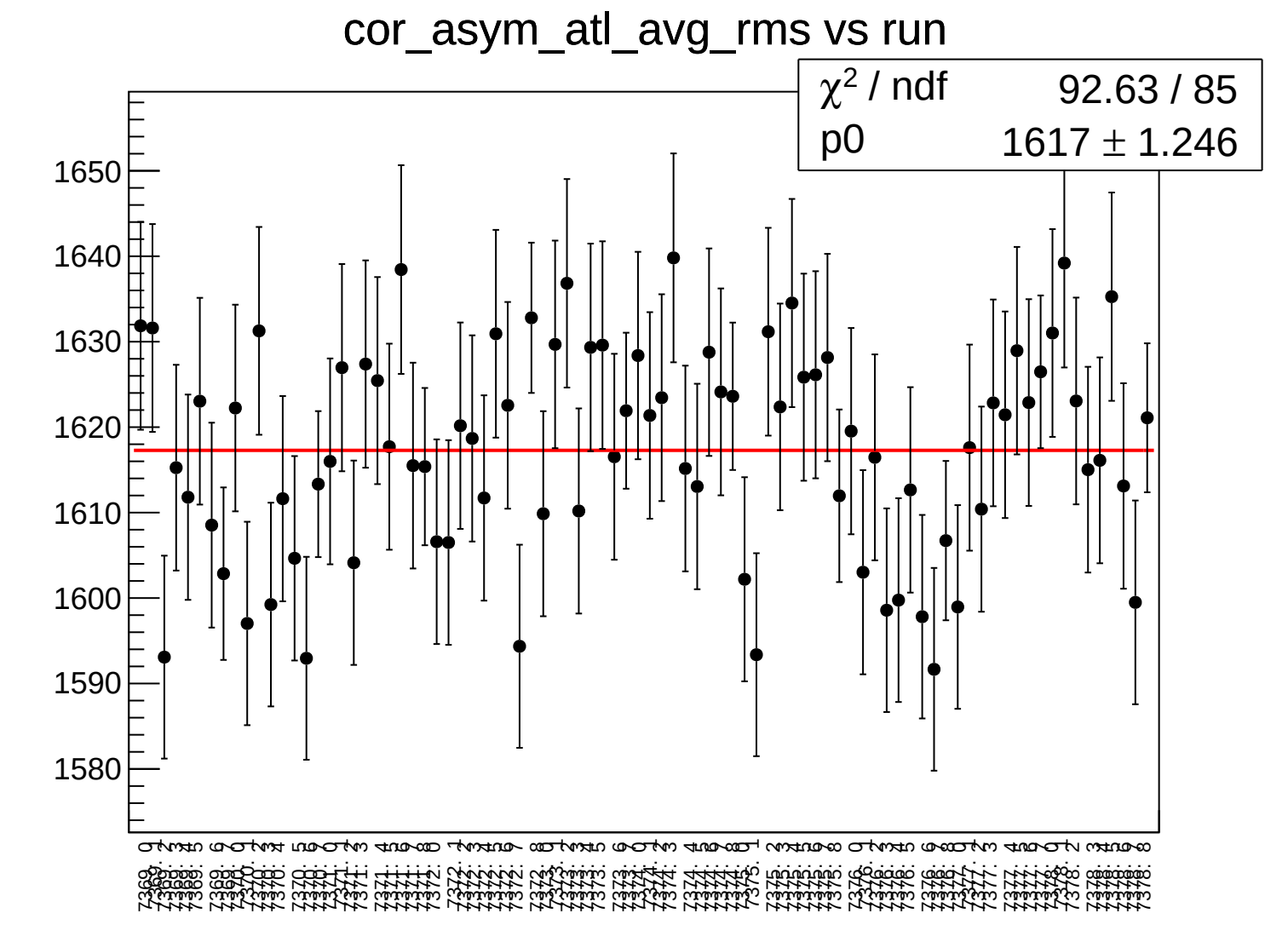

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.38 / 85
p0 −5943 ± 5007
pull
Entries 86
Mean −201.5
Std Dev 0

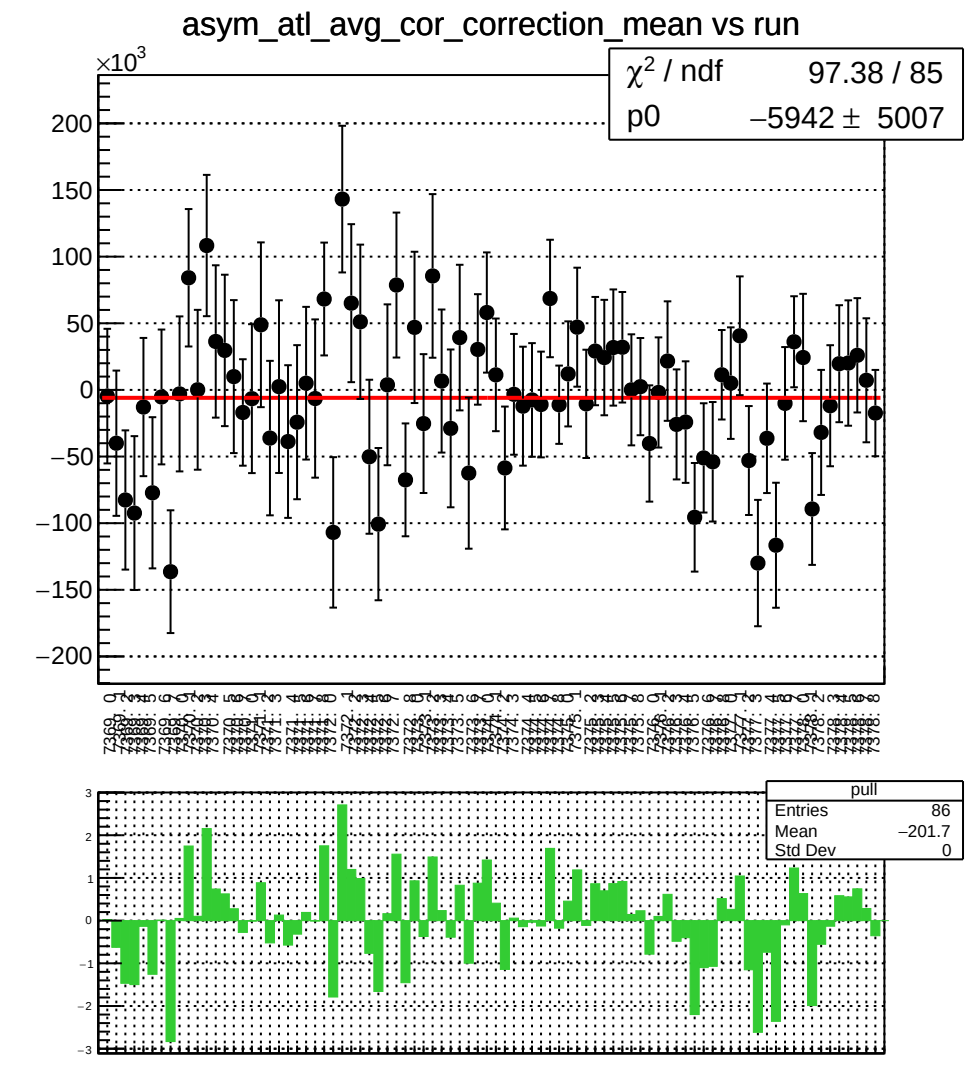

pull1D
Entries 86
Mean 0.005441
Std Dev 1.064

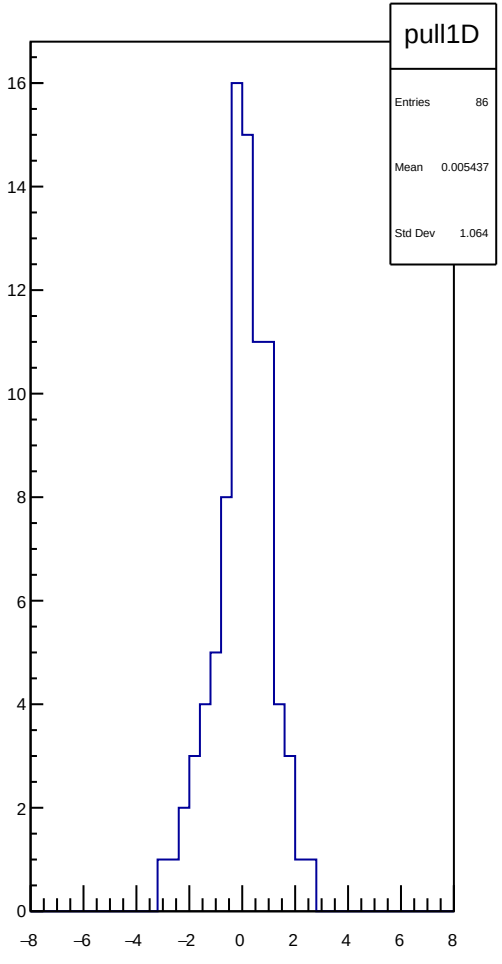

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 3.189e+04 / 85
p0 4551 ± 3.541
6000
5500
5000
4500
4000
3500

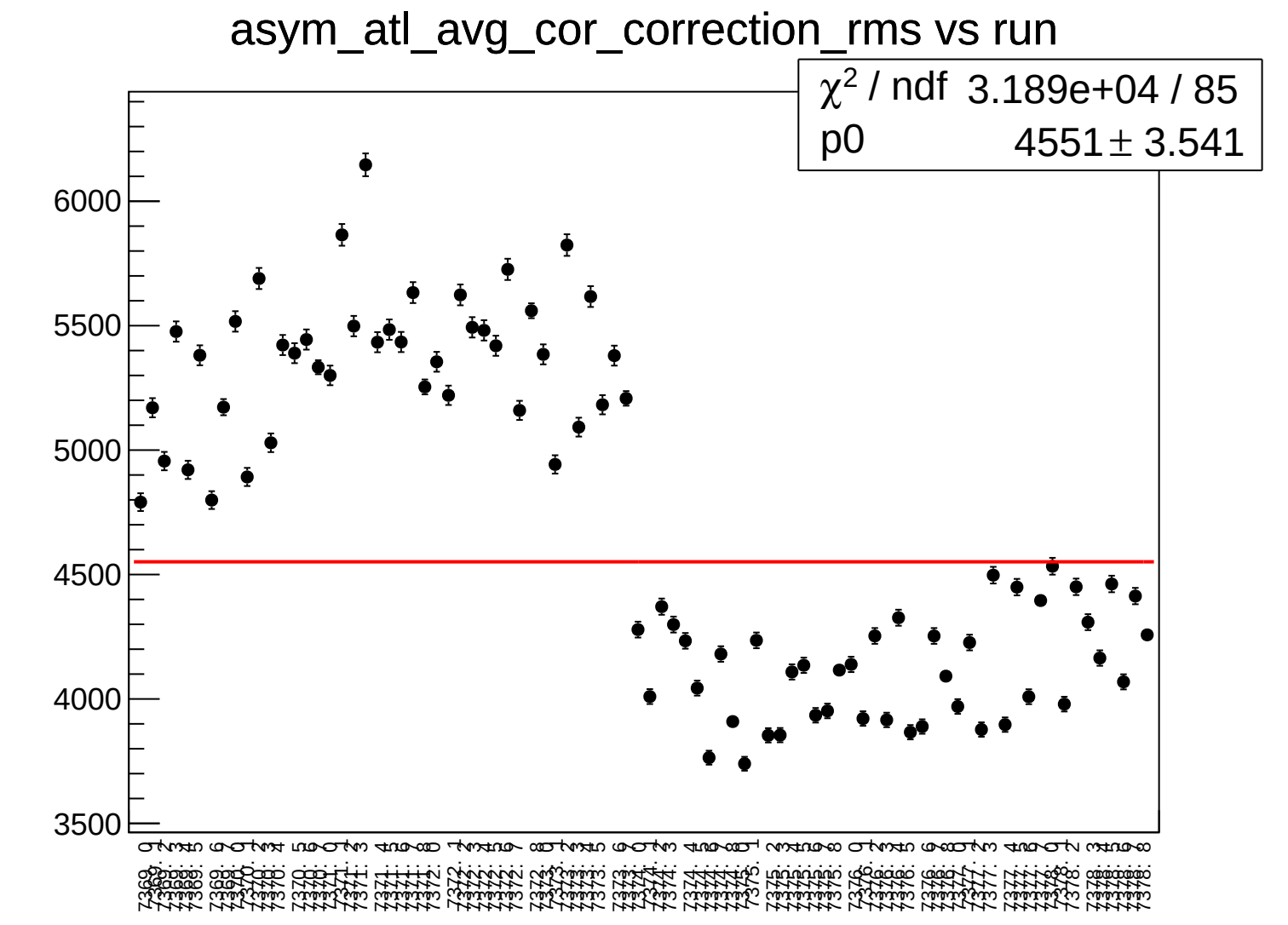

cor_asym_atl_avg_mean vs run
χ² / ndf 89.58 / 85
p0 −1546 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 63.91
Std Dev 19.75
2
1
0
−1
−2
−3

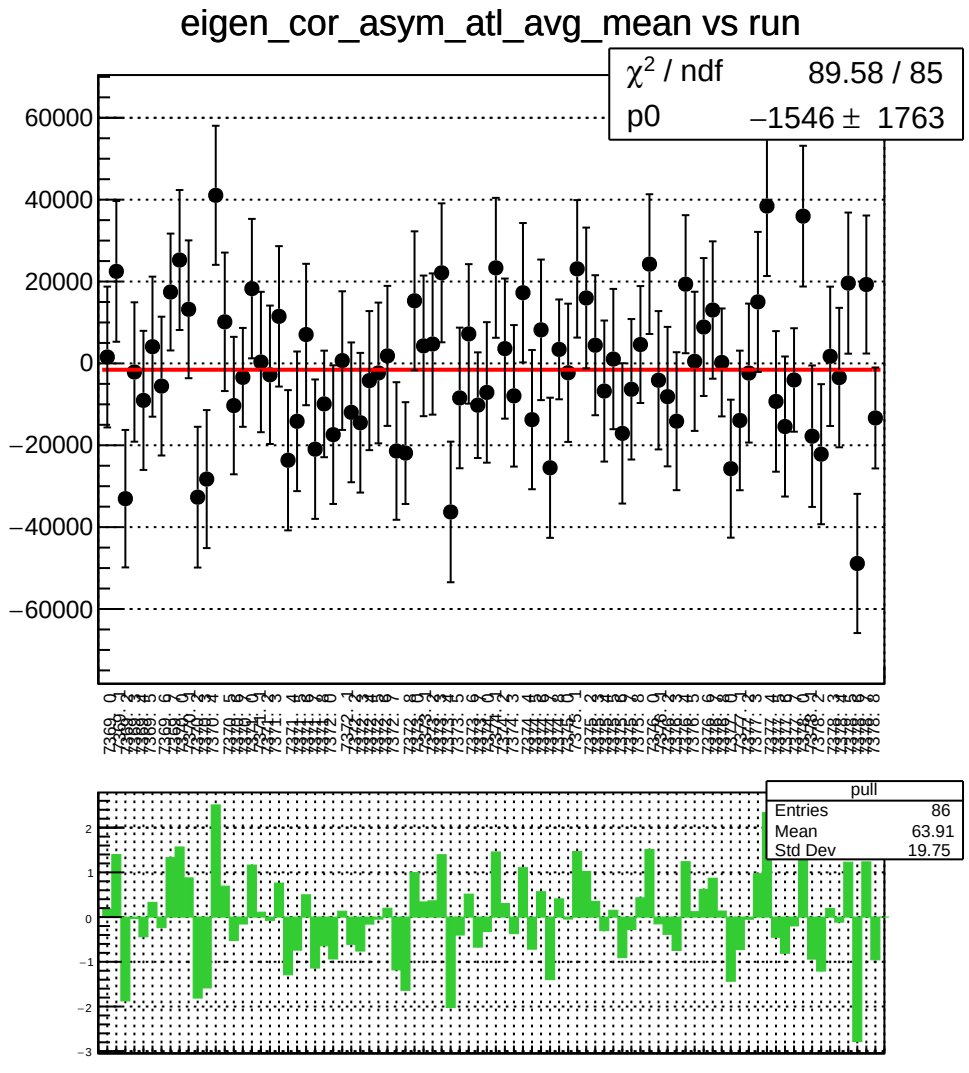

pull1D
Entries 86
Mean 0.0116
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

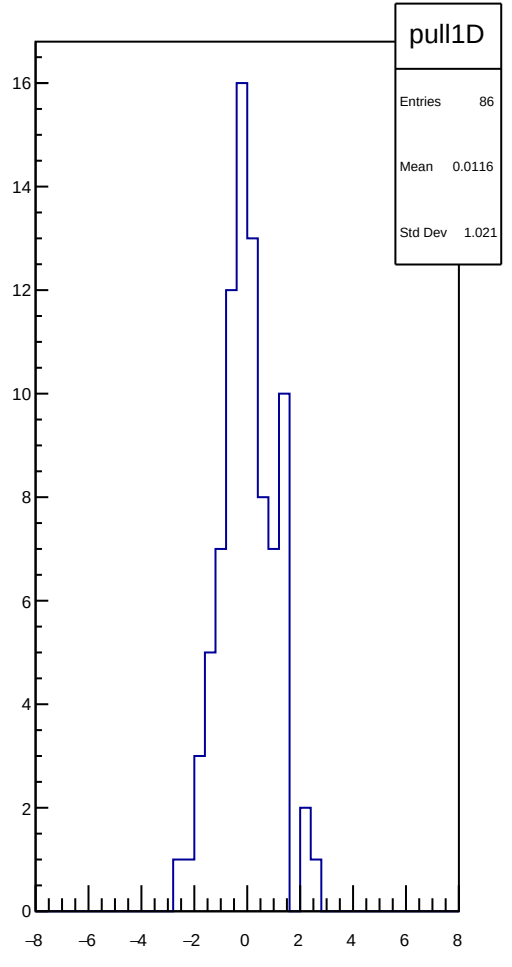

cor_asym_atl_avg_rms vs run
χ² / ndf 92.63 / 85
p0 1617 ± 1.246
1650
1640
1630
1620
1610
1600
1590
1580

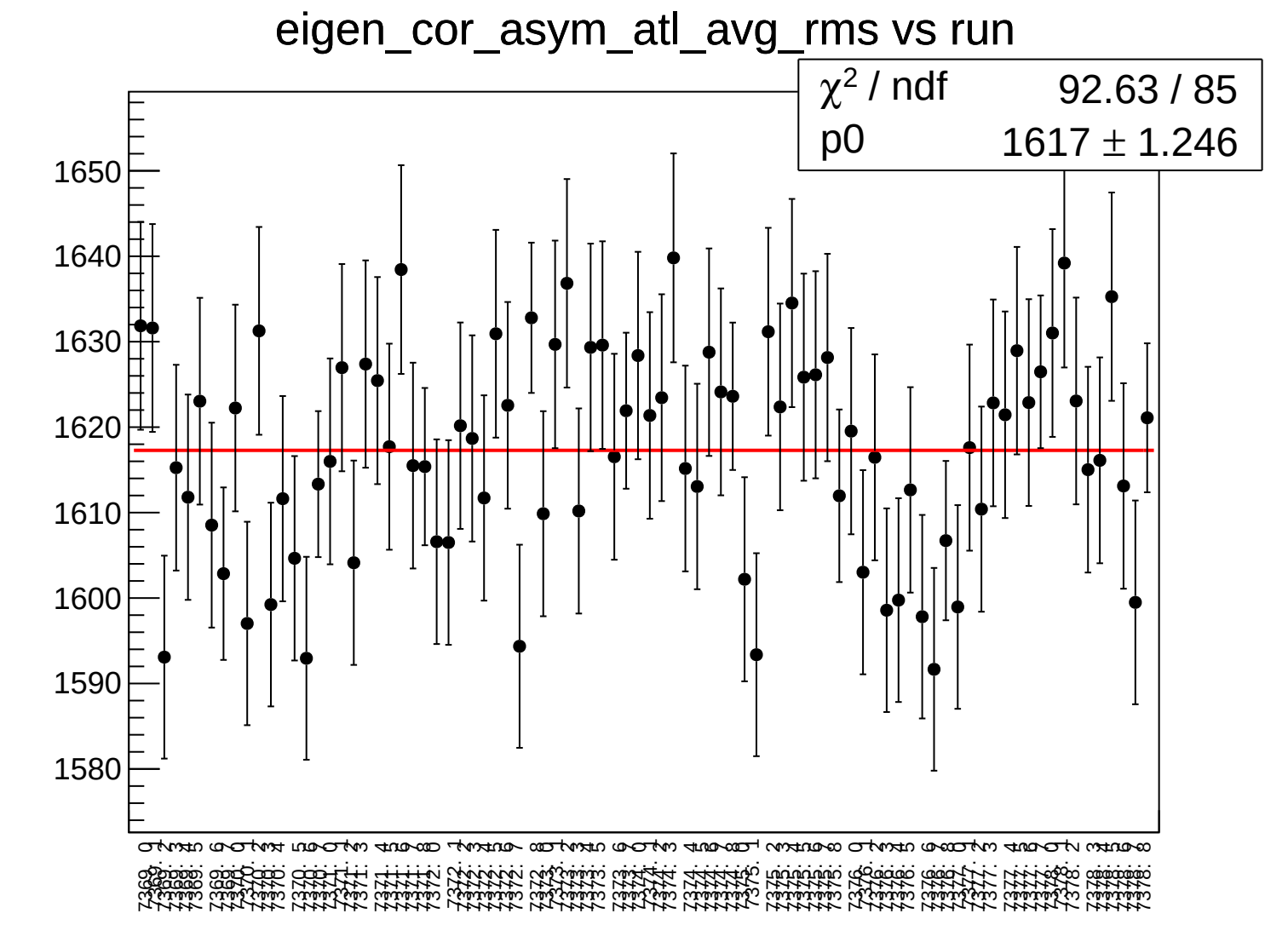

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.38 / 85
p0 −5942 ± 5007
pull
Entries 86
Mean −201.7
Std Dev 0

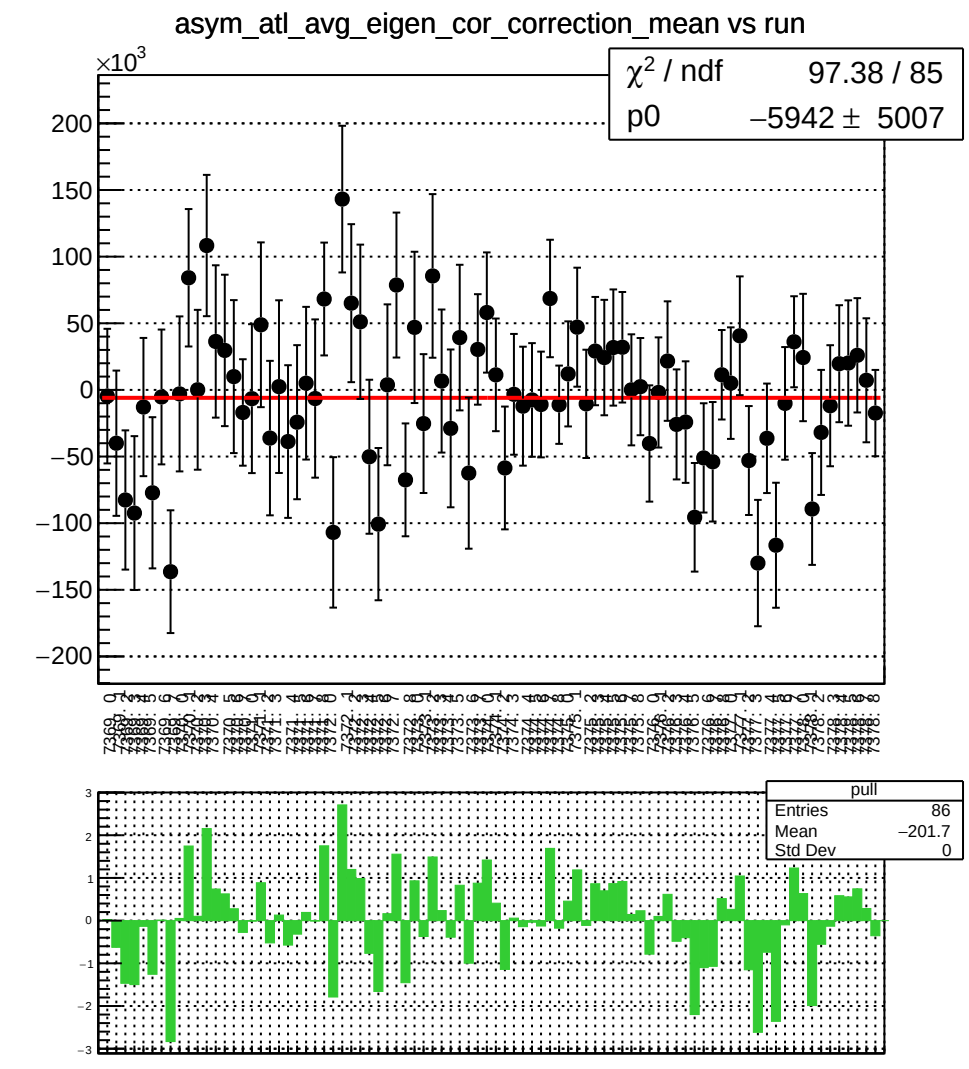

pull1D
Entries 86
Mean 0.005437
Std Dev 1.064

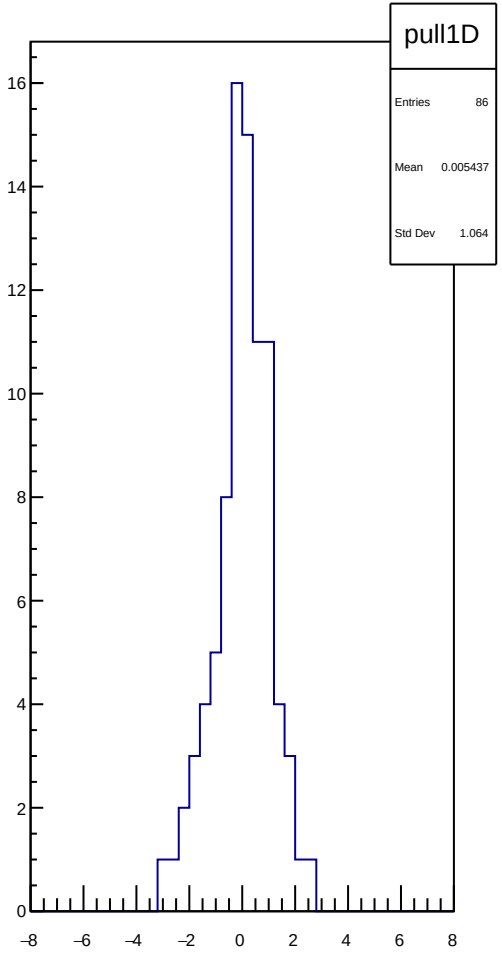

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 3.189e+04 / 85
p0 4551 ± 3.541
6000
5500
5000
4500
4000
3500

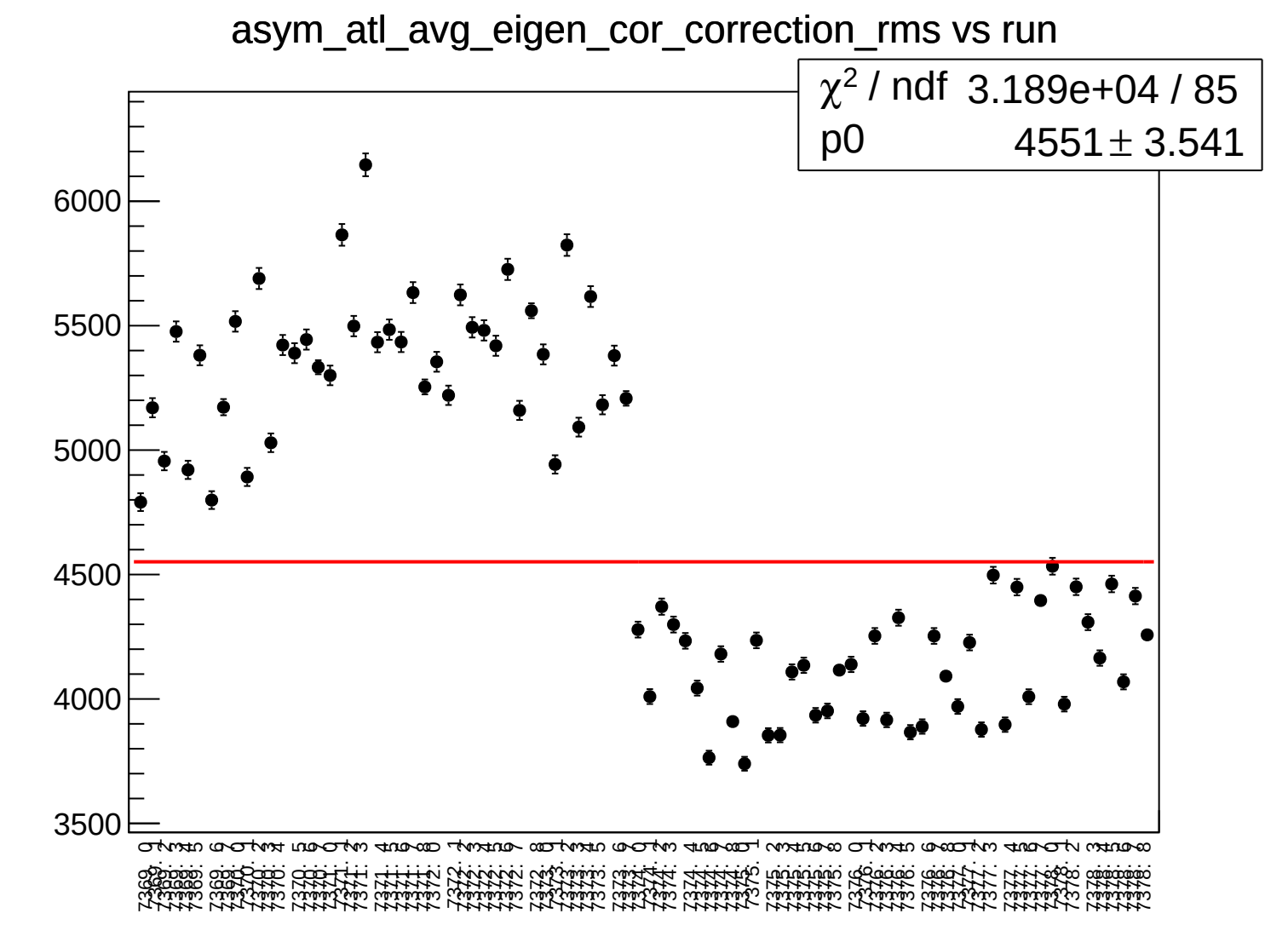

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 89.58 / 85
p0 −1546 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 63.91
Std Dev 19.75
2
1
0
−1
−2
−3

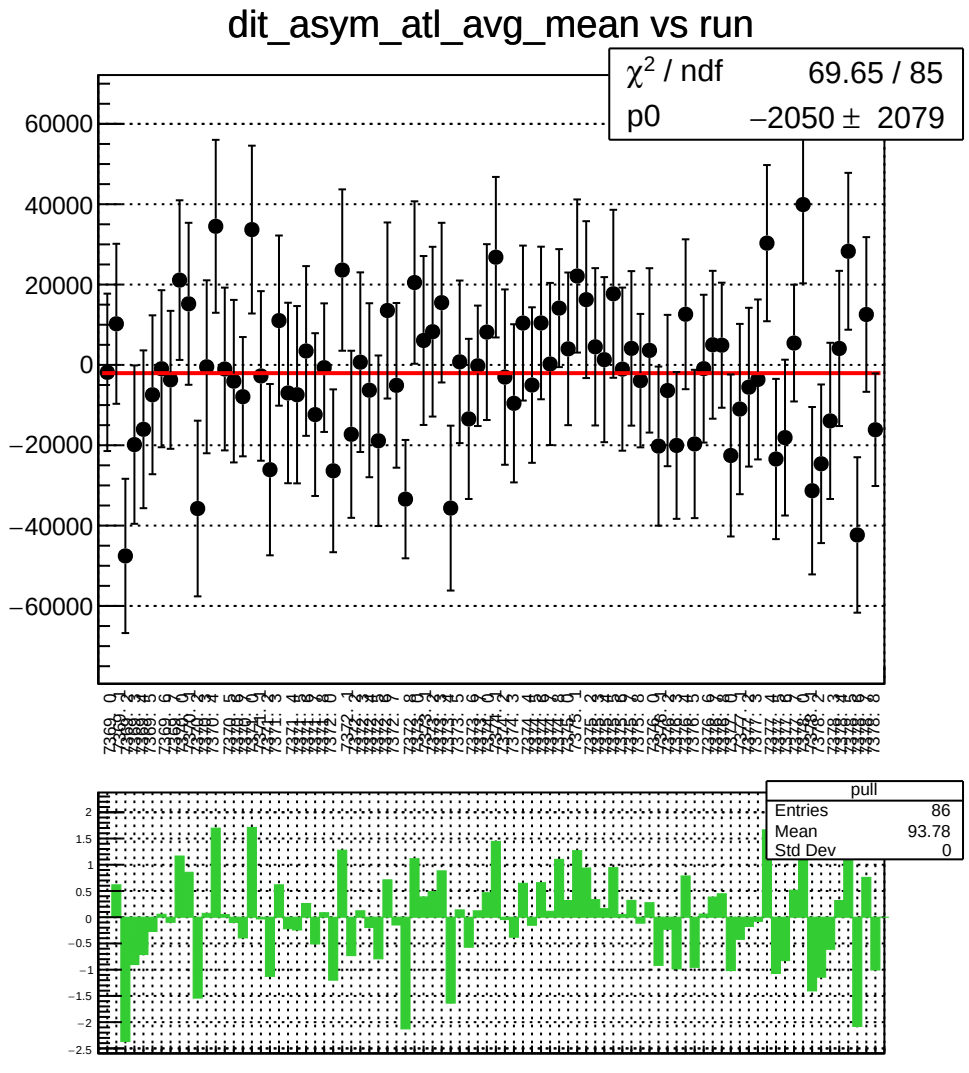

pull1D
Entries 86
Mean 0.0116
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

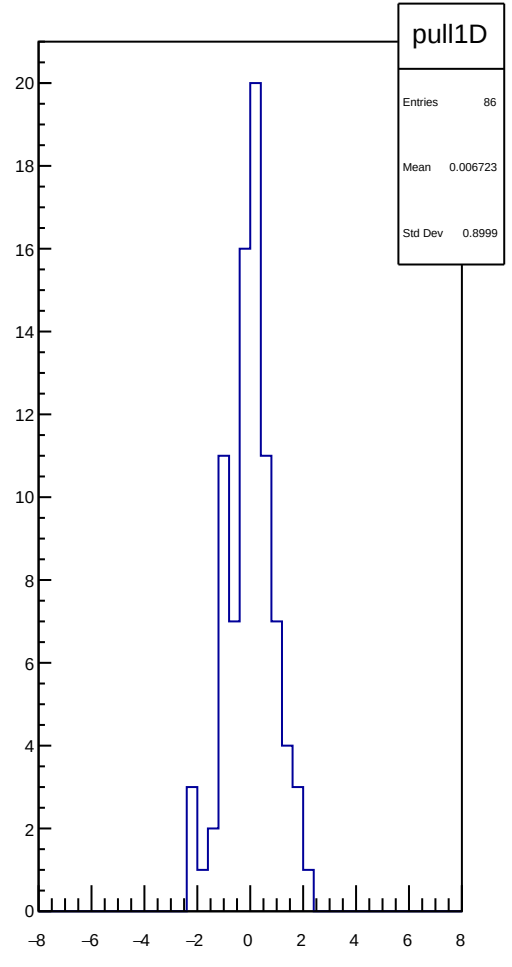

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 92.63 / 85
p0 1617 ± 1.246
1650
1640
1630
1620
1610
1600
1590
1580

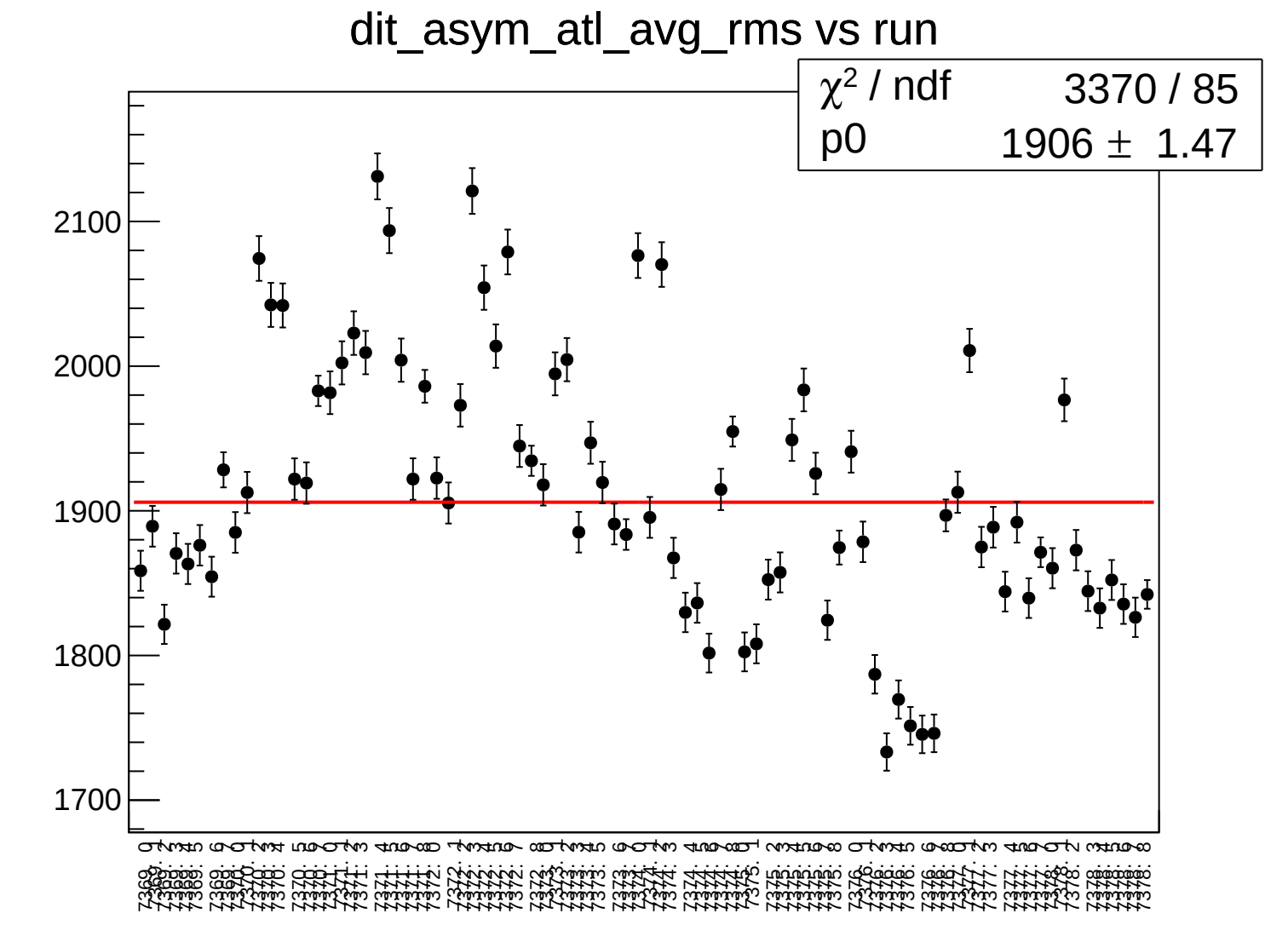

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.38 / 85
p0 −5942 ± 5007
pull
Entries 86
Mean −201.7
Std Dev 0

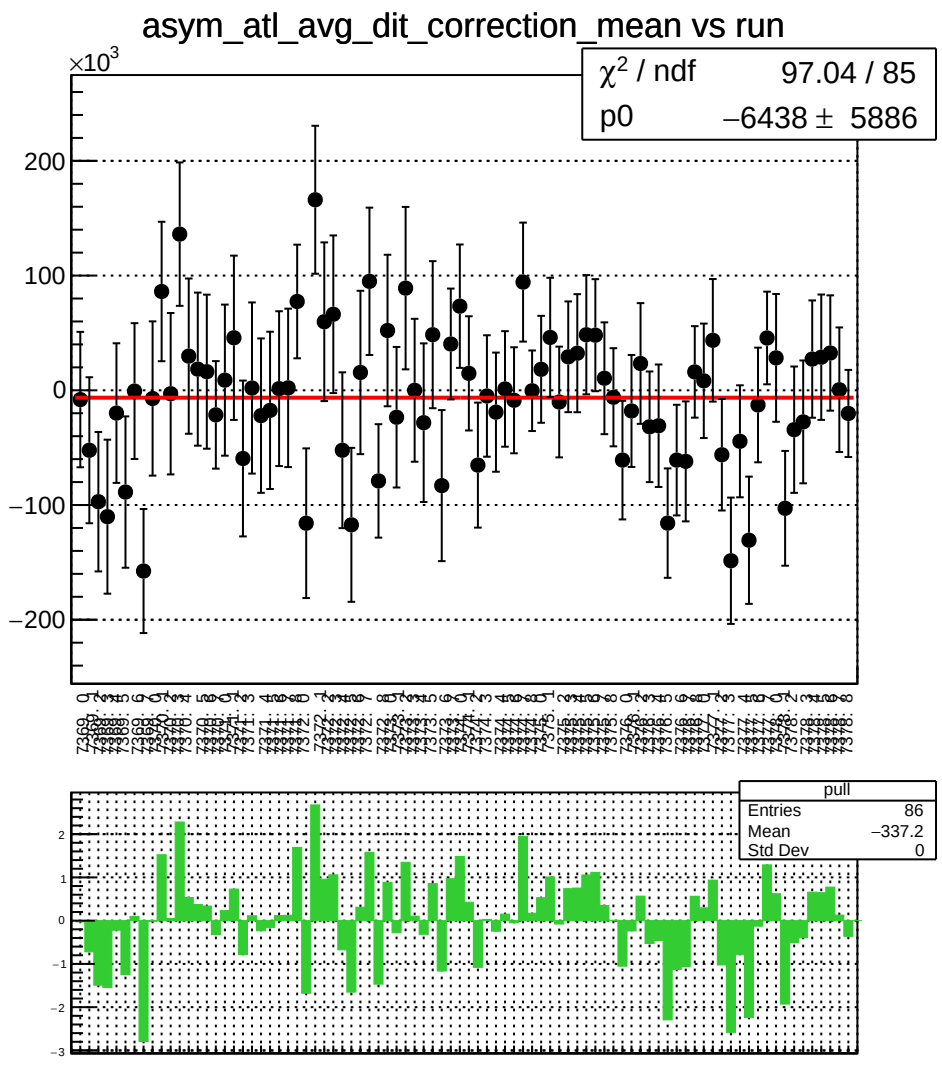

pull1D
Entries 86
Mean 0.005437
Std Dev 1.064

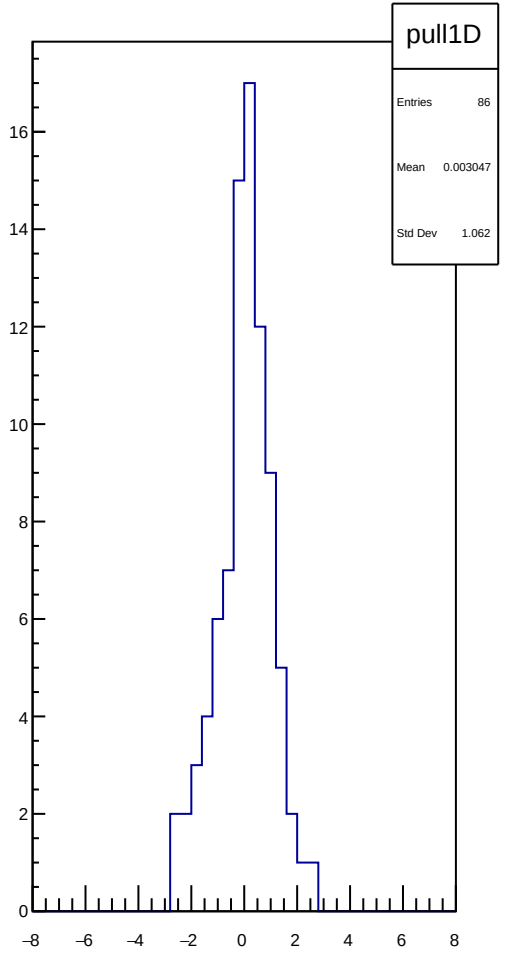

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.189e+04 / 85
p0 4551 ± 3.541
6000
5500
5000
4500
4000
3500

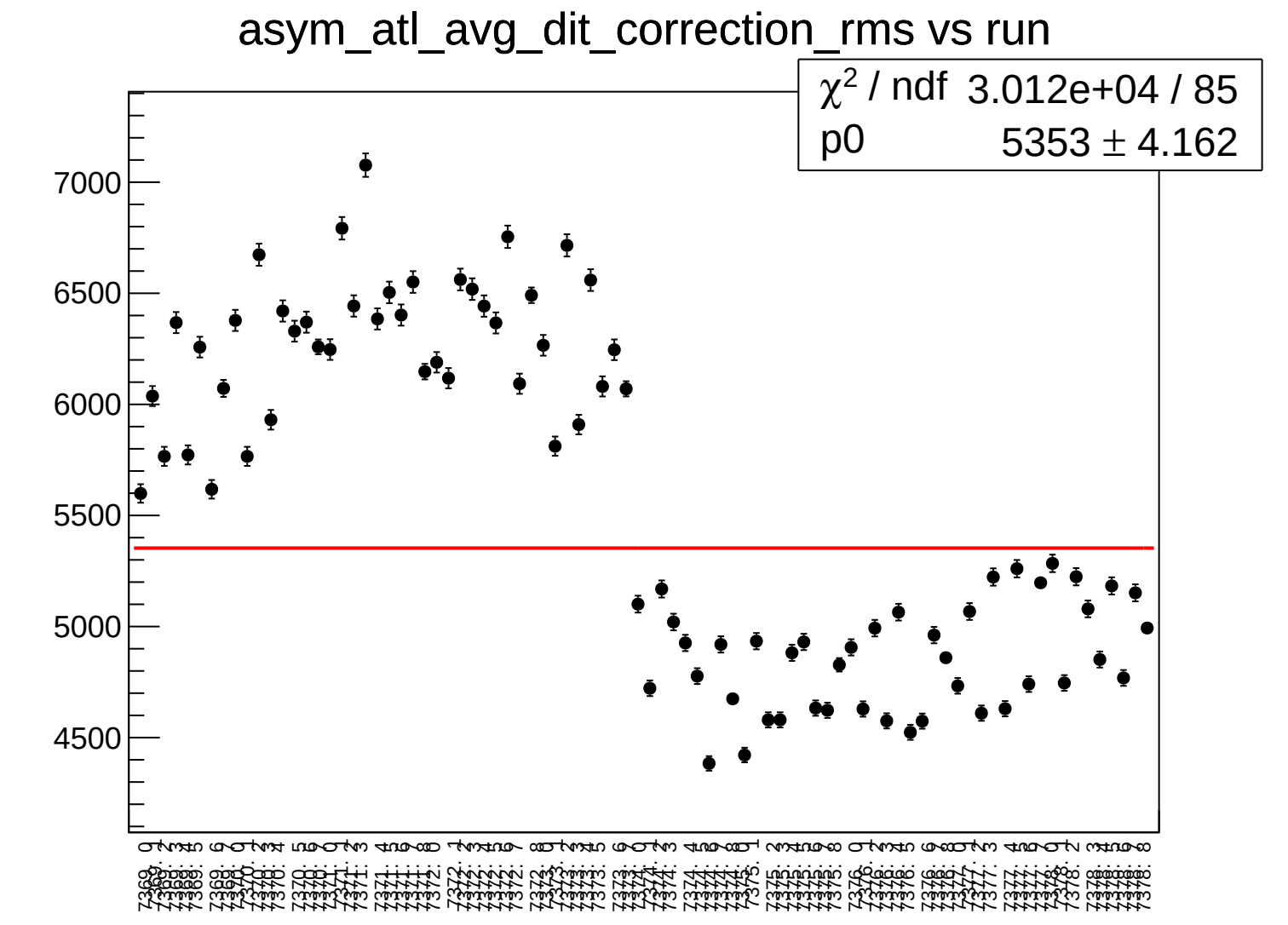

dit_asym_atl_avg_mean vs run
χ^2 / ndf 69.65 / 85
p0 −2050 ± 2079
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 93.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

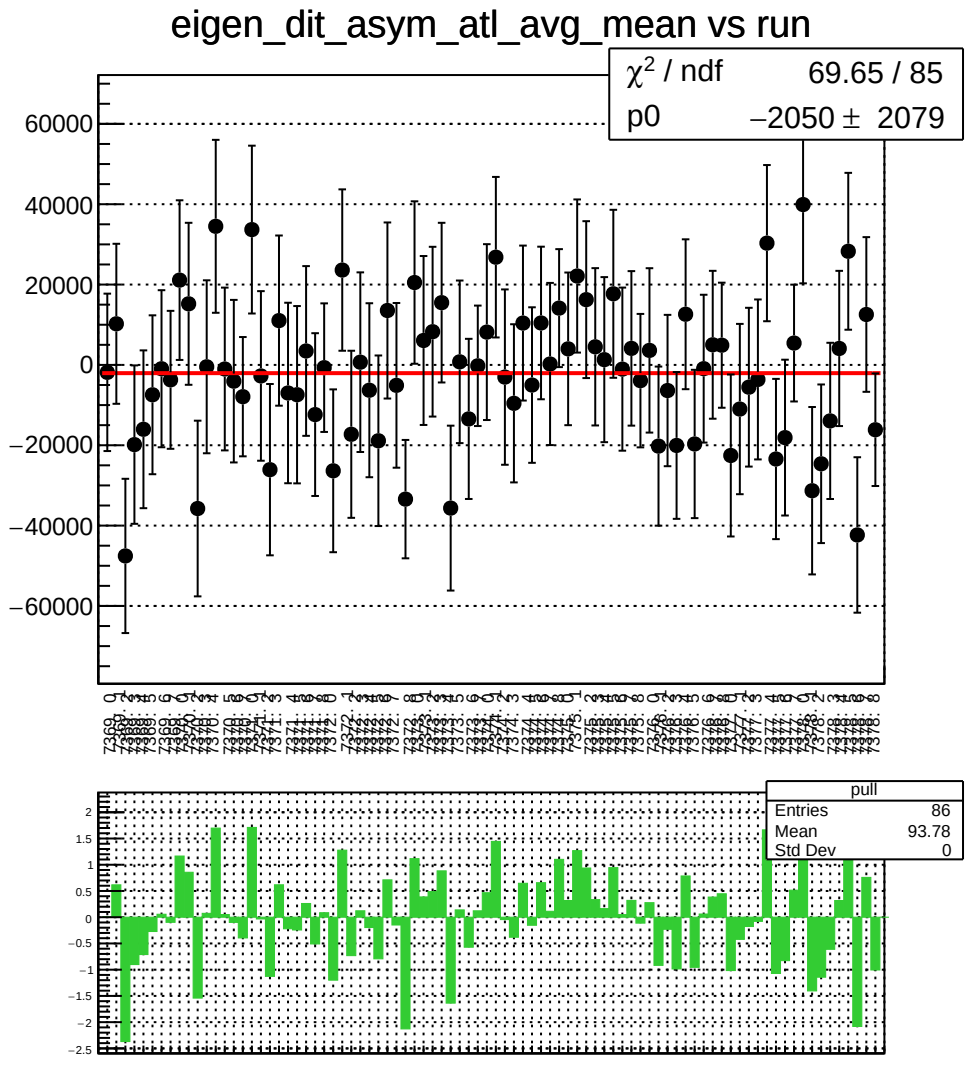

pull1D
Entries 86
Mean 0.006723
Std Dev 0.8999
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

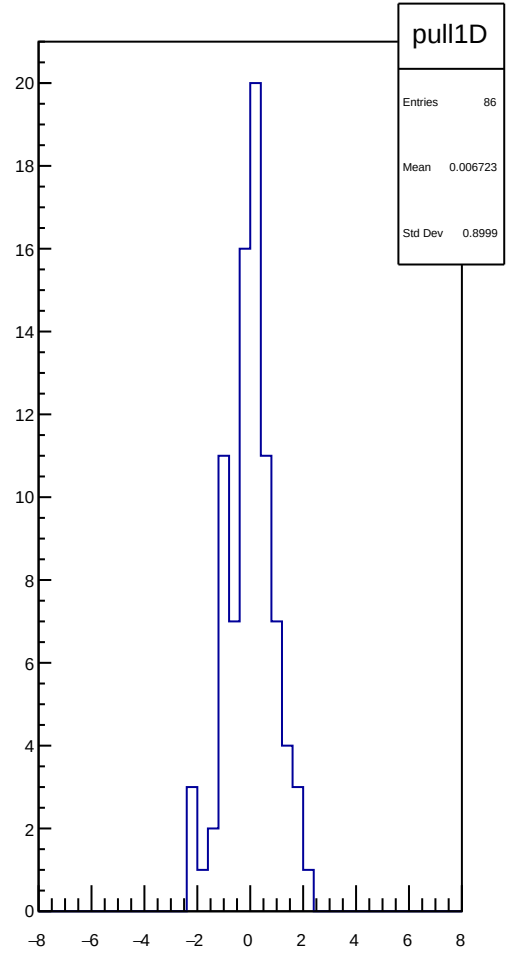

dit_asym_atl_avg_rms vs run
χ² / ndf 3370 / 85
p0 1906 ± 1.47
2100
2000
1900
1800
1700

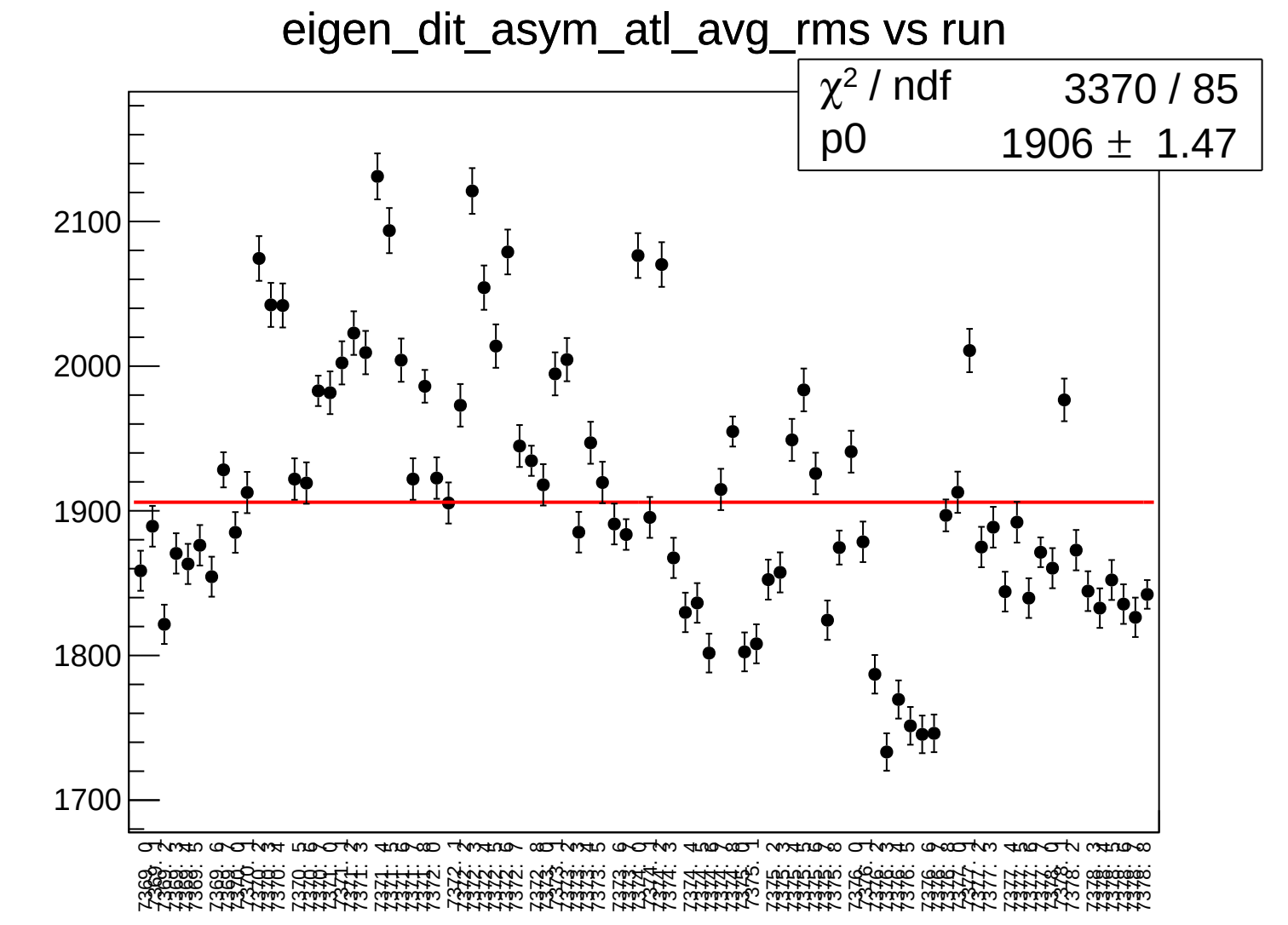

asym_atl_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.04 / 85
p0 −6438 ± 5886
200
100
0
−100
−200
pull
Entries 86
Mean −337.2
Std Dev 0
2
1
0
−1
−2
−3

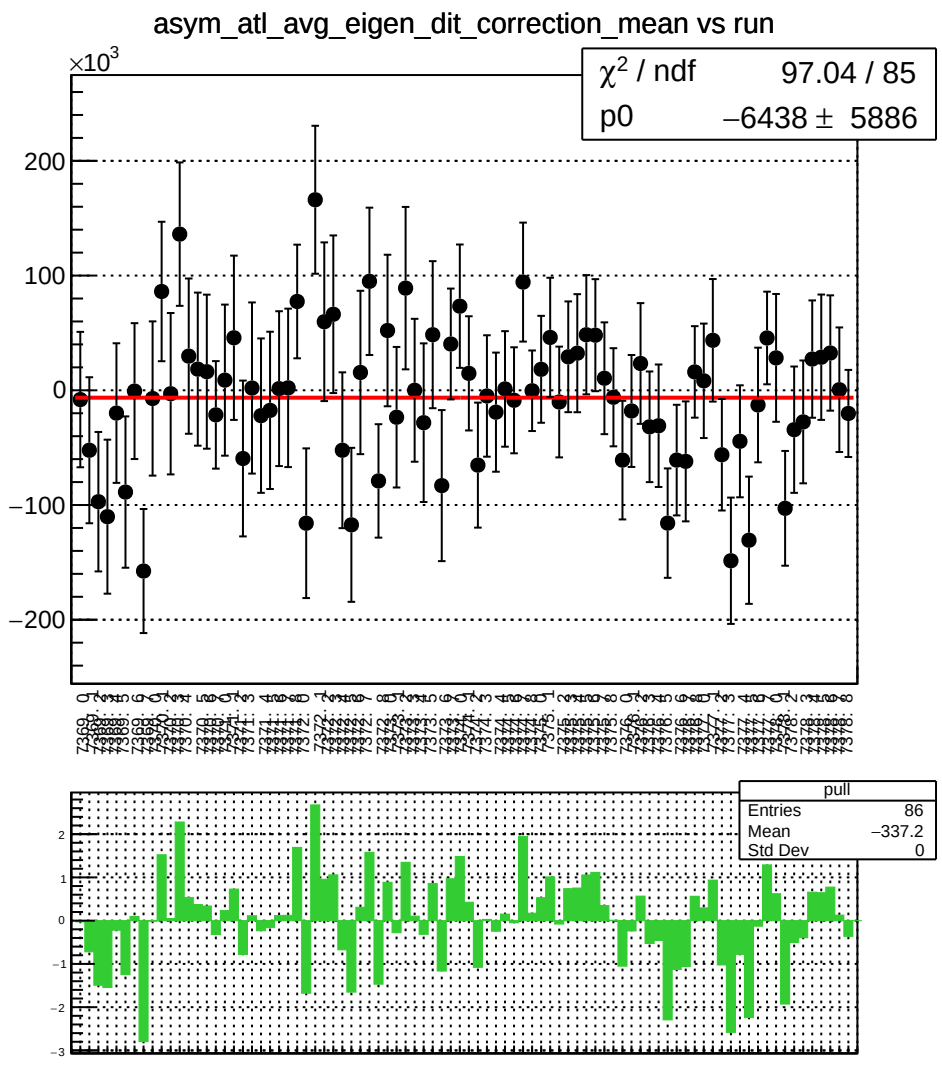

pull1D
Entries 86
Mean 0.003047
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

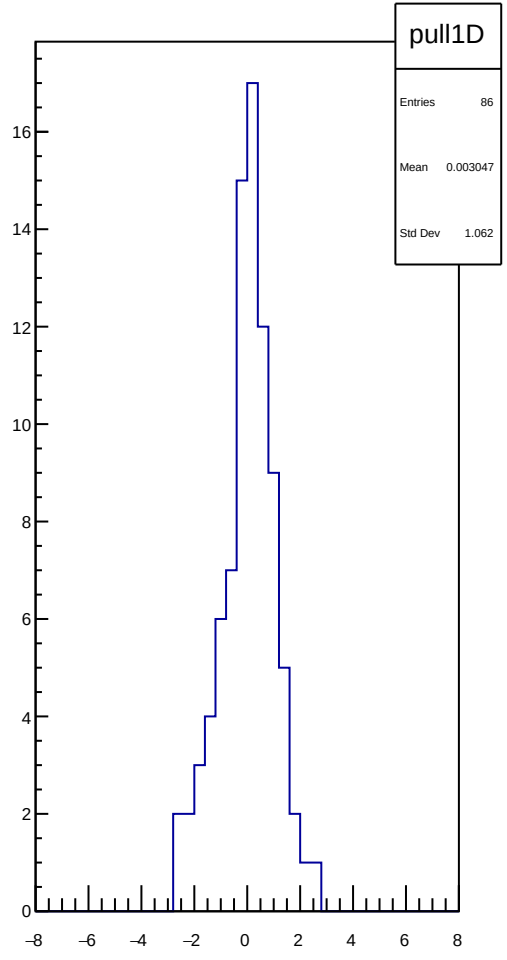

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 3.012e+04 / 85
p0 5353 ± 4.162
7000
6500
6000
5500
5000
4500

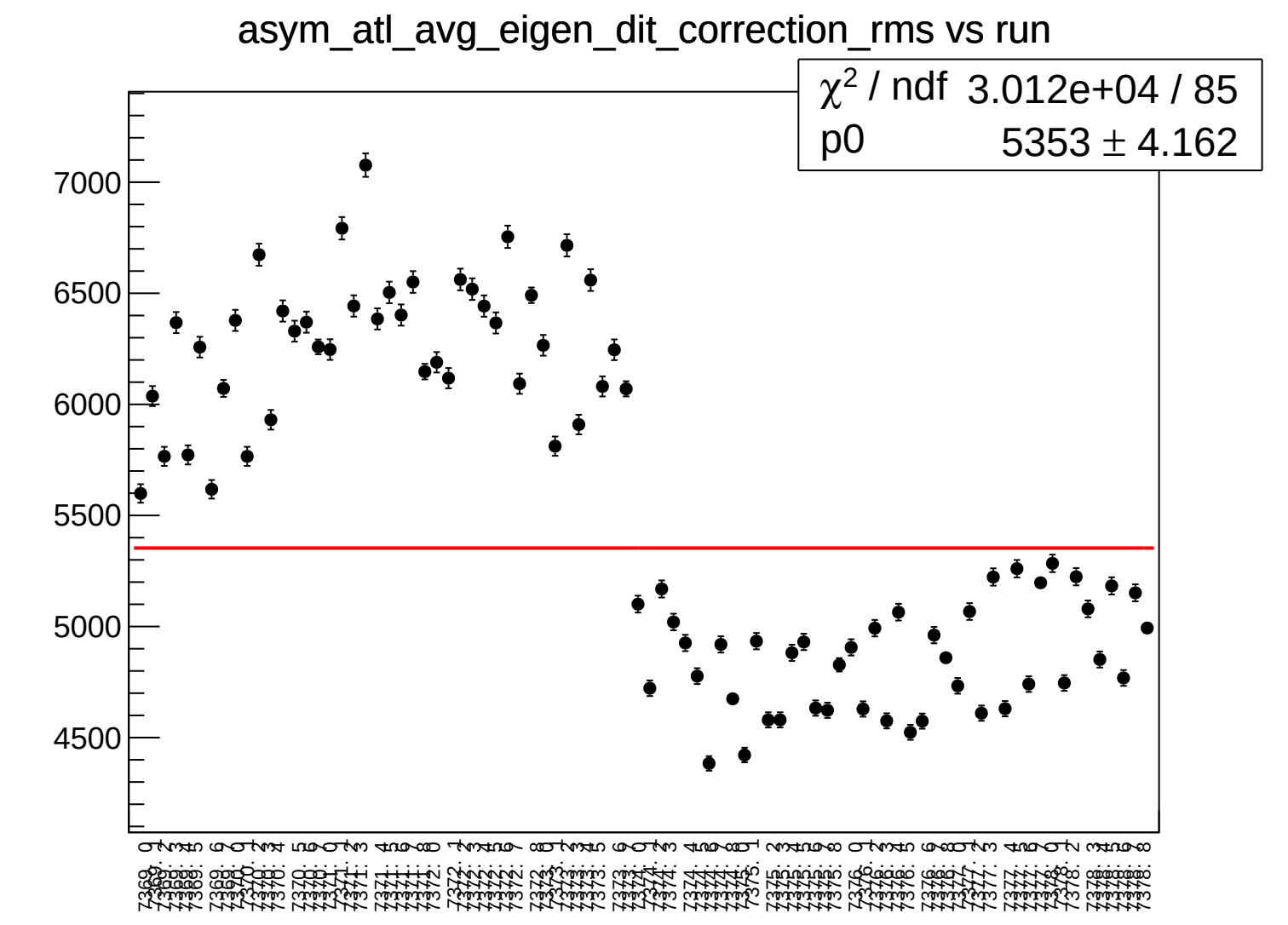

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 69.65 / 85
p0 −2050 ± 2079
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 93.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

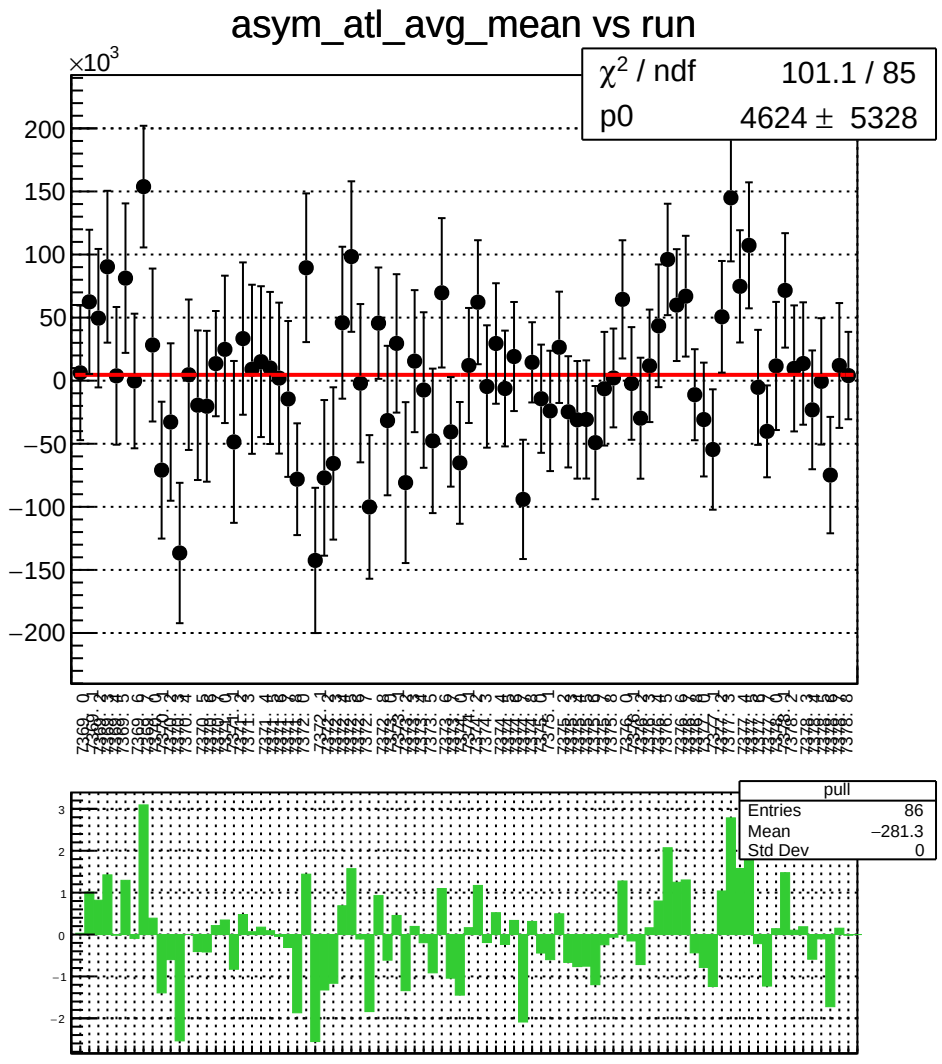

pull1D
Entries 86
Mean 0.006723
Std Dev 0.8999
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

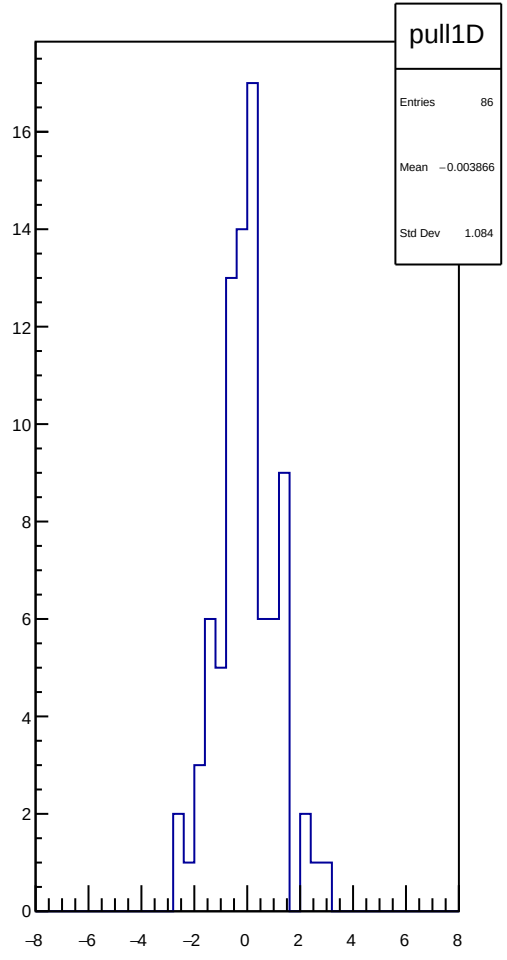

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 3370 / 85
p0 1906 ± 1.47
2100
2000
1900
1800
1700

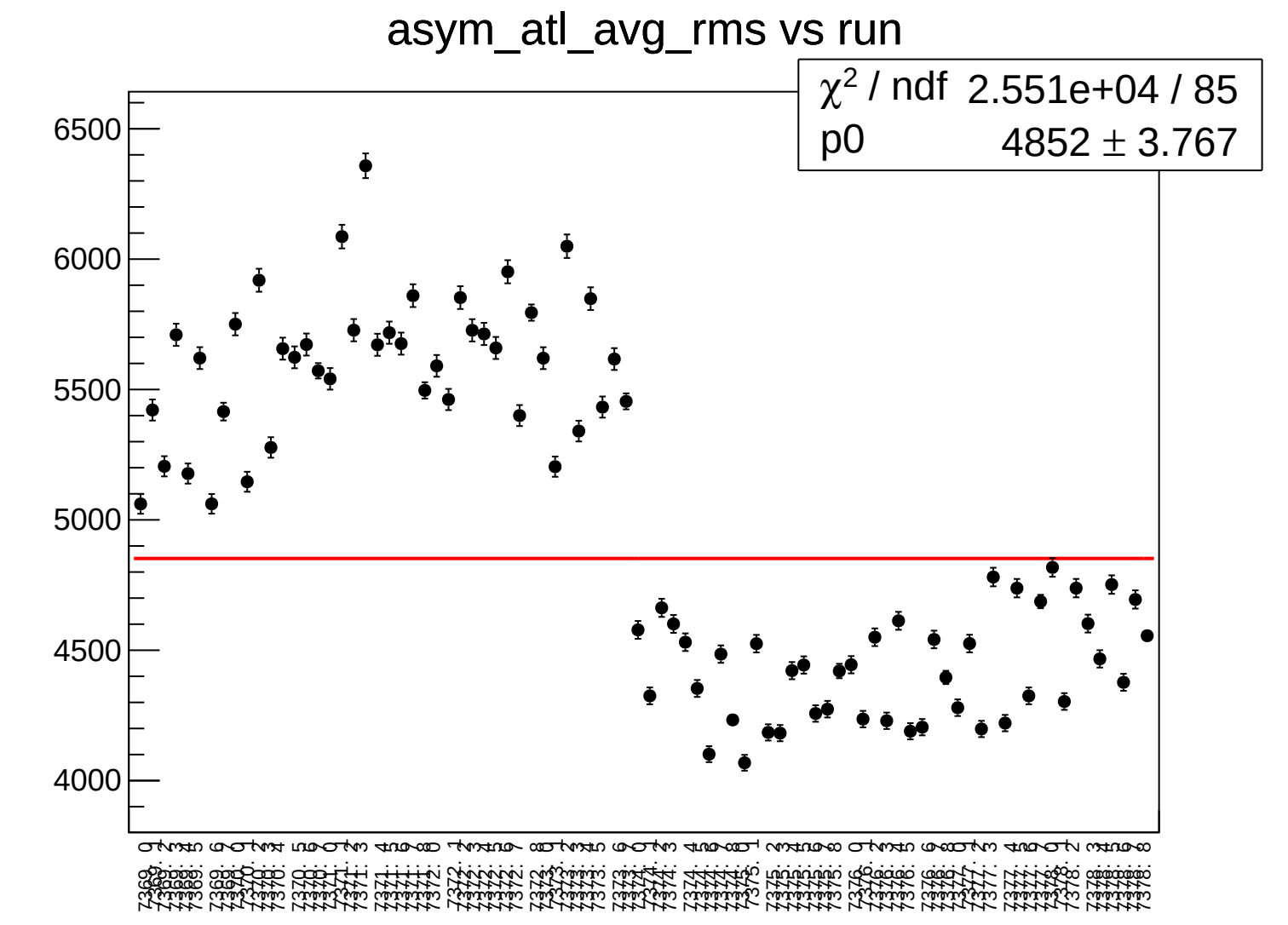

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.04 / 85
p0 −6438 ± 5886
200
100
0
−100
−200
pull
Entries 86
Mean −337.2
Std Dev 0
2
1
0
−1
−2
−3

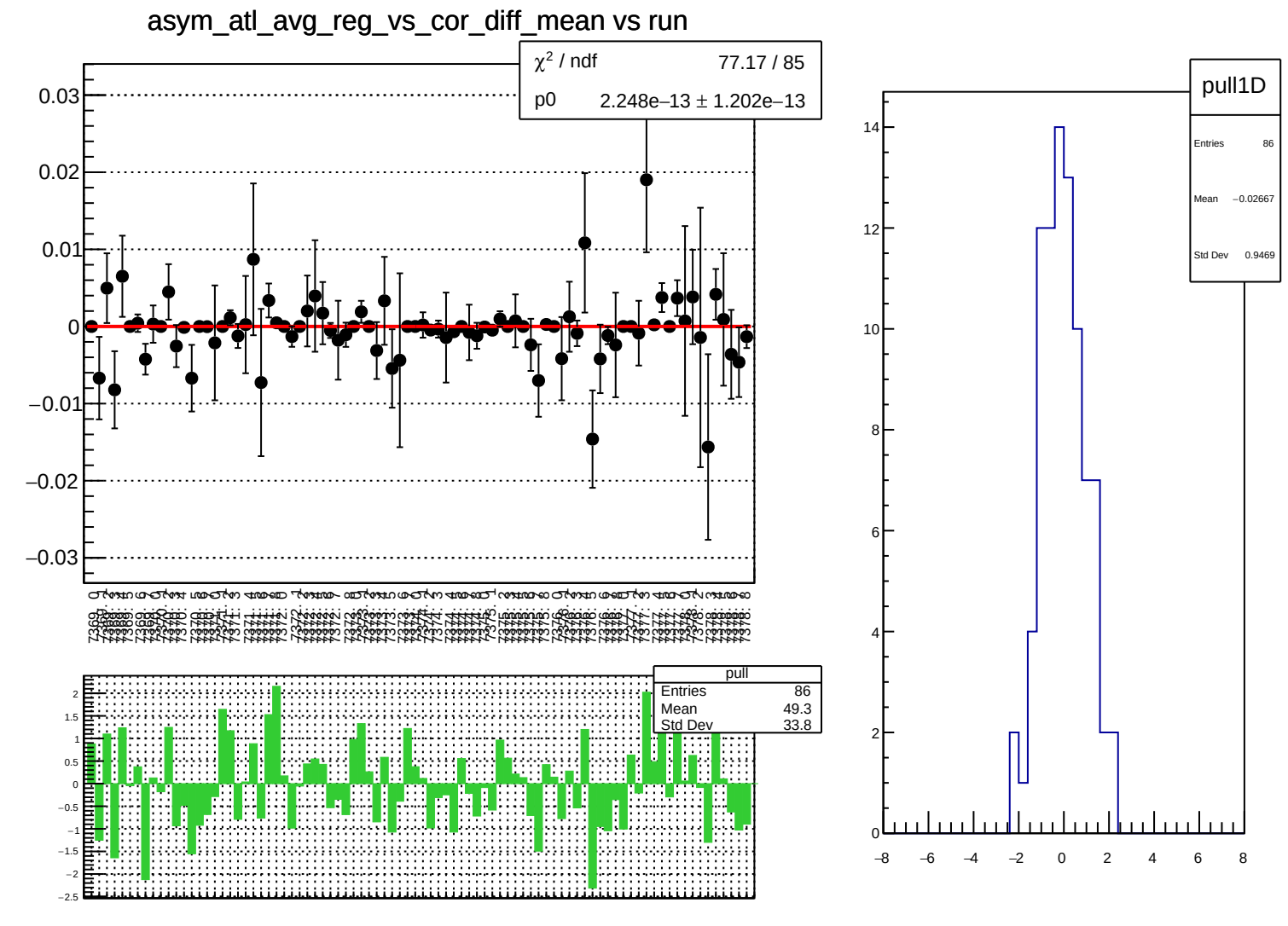

pull1D
Entries 86
Mean 0.003047
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

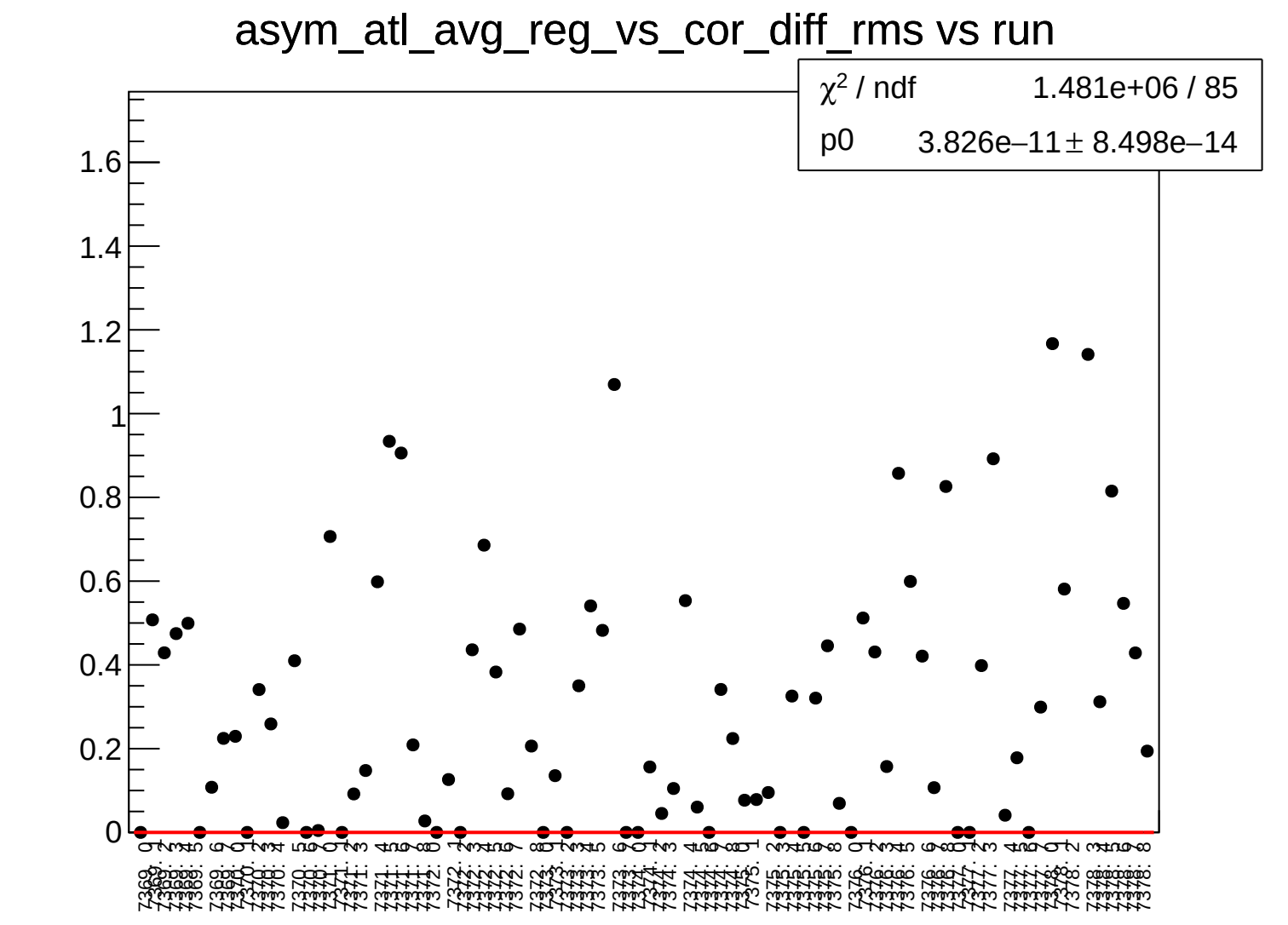

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.012e+04 / 85
p0 5353 ± 4.162
7000
6500
6000
5500
5000
4500

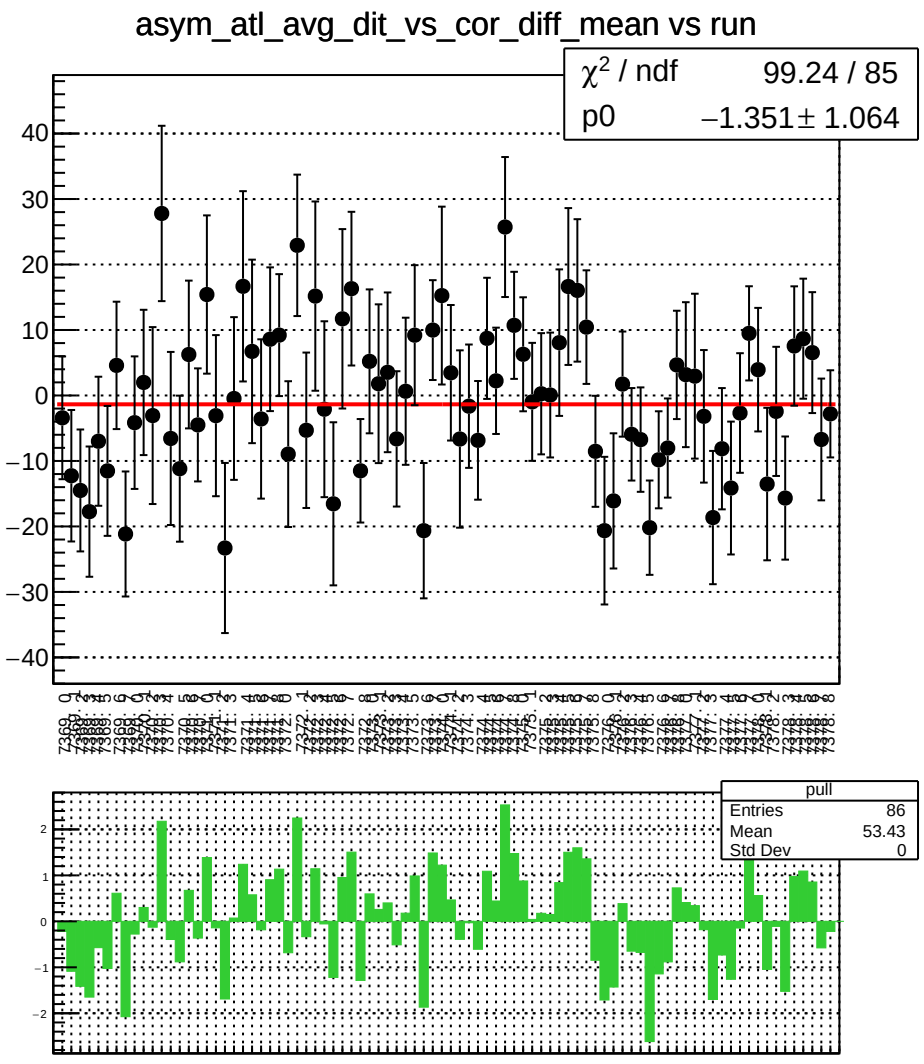

asym_atl_avg_mean vs run
×10^3
χ² / ndf 101.1 / 85
p0 4624 ± 5328
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −281.3
Std Dev 0
3
2
1
0
−1
−2

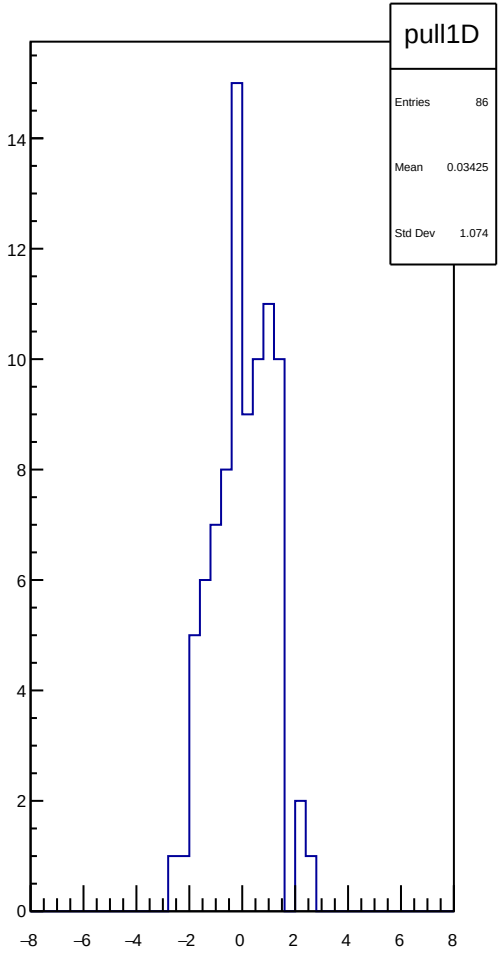

pull1D
Entries 86
Mean −0.003866
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

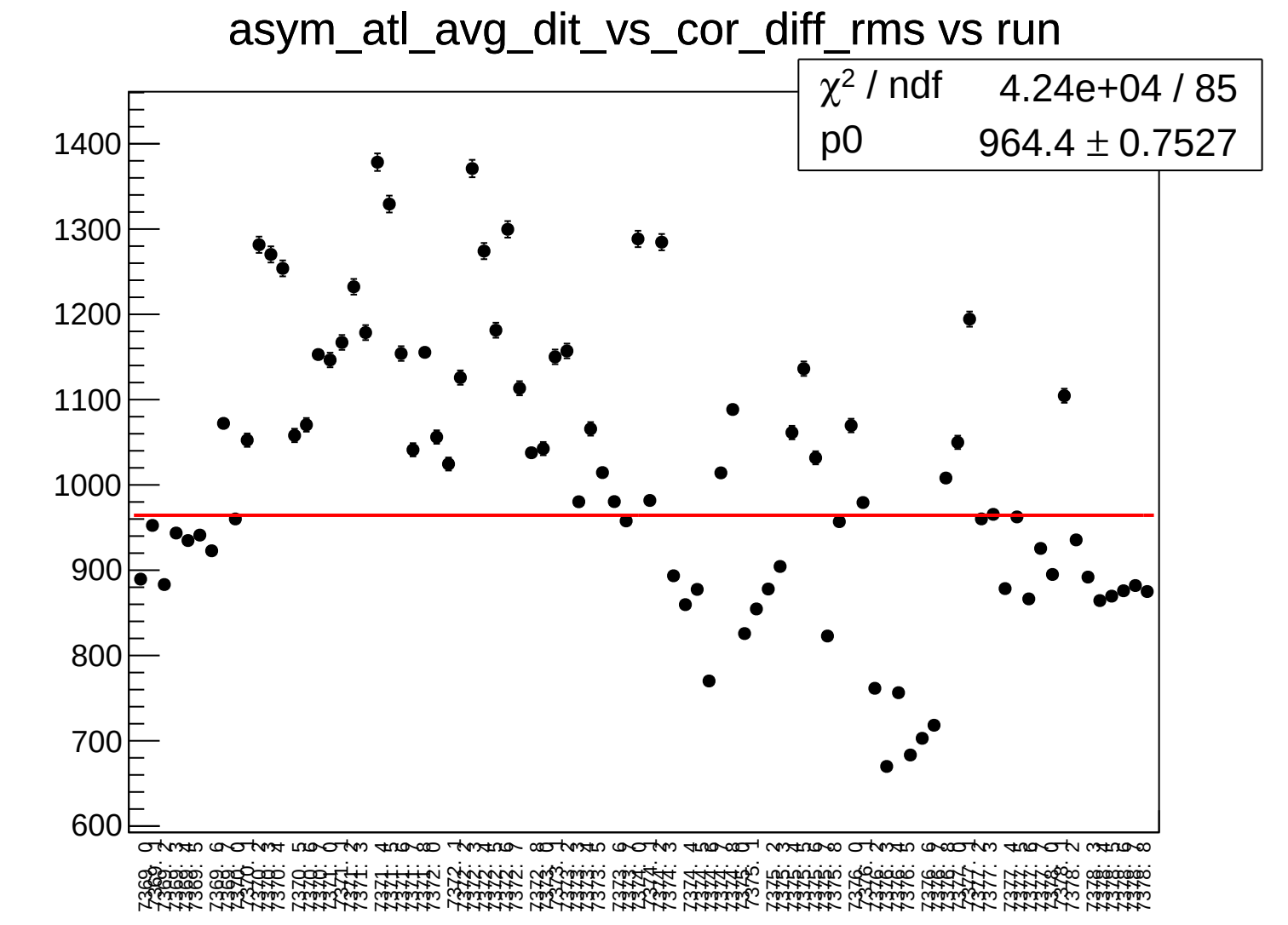

asym_atl_avg_rms vs run
χ² / ndf 2.551e+04 / 85
p0 4852 ± 3.767
6500
6000
5500
5000
4500
4000

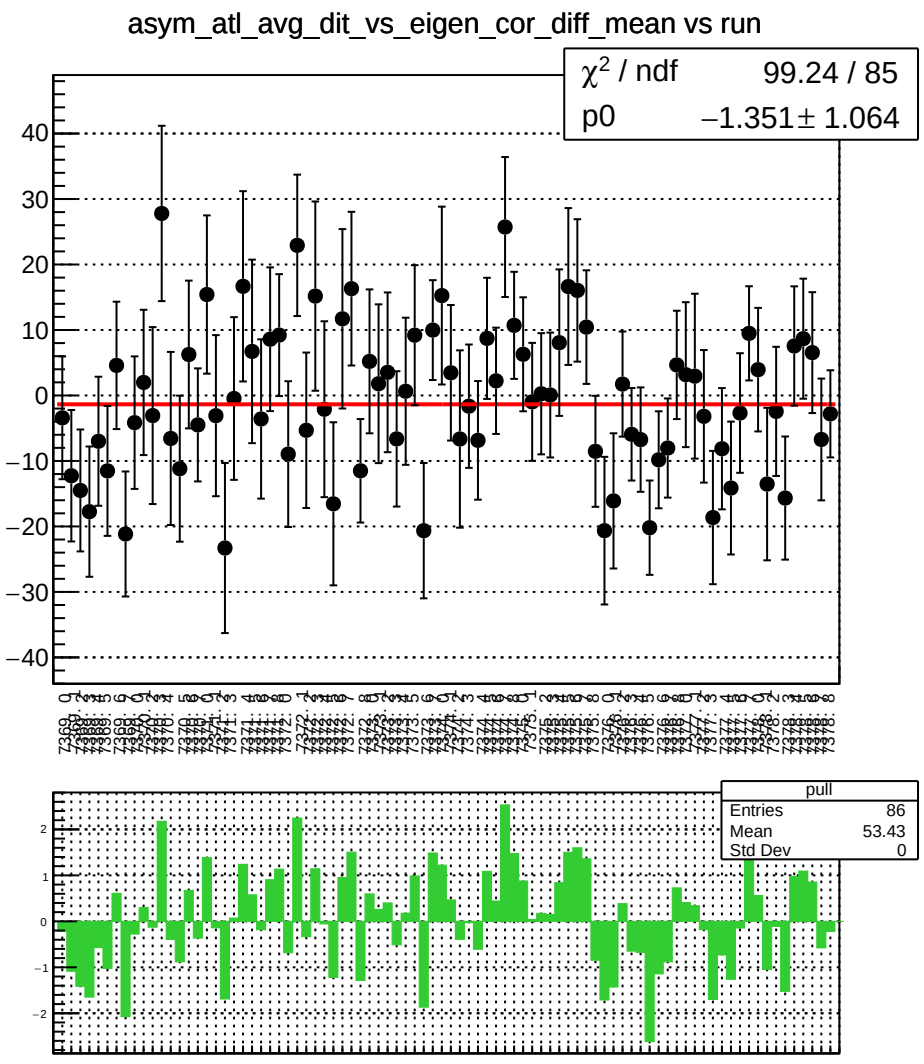

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.17 / 85
p0 2.248e−13 ± 1.202e−13
pull
Entries 86
Mean 49.3
Std Dev 33.8
pull1D
Entries 86
Mean −0.02667
Std Dev 0.9469

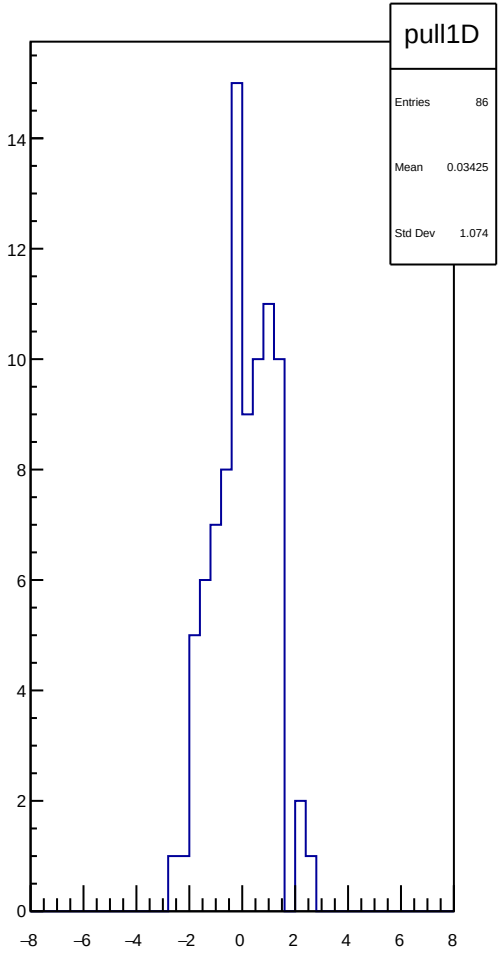

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.481e+06 / 85
p0 3.826e−11 ± 8.498e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

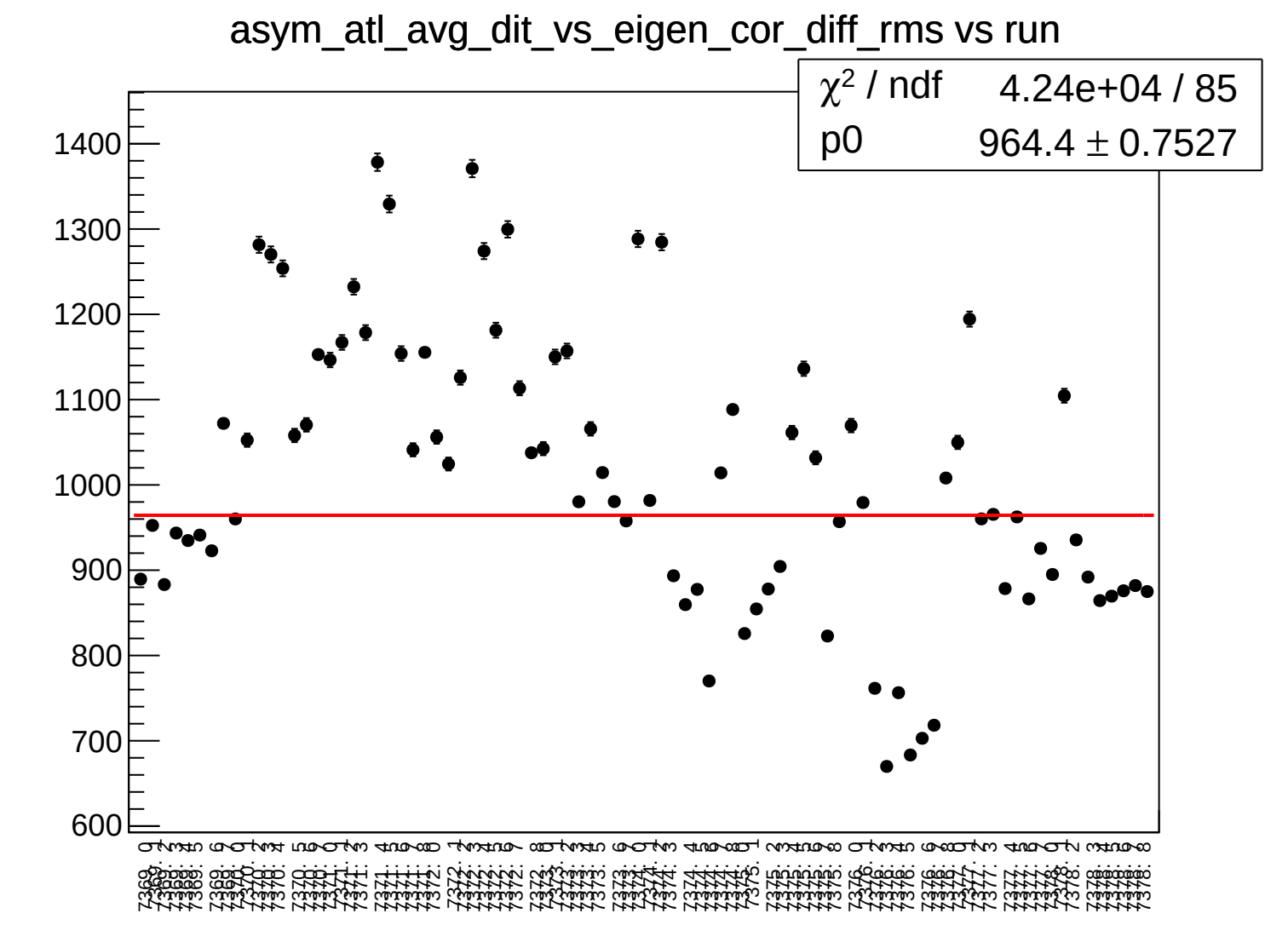

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.24 / 85
p0 −1.351± 1.064
pull
Entries 86
Mean 53.43
Std Dev 0

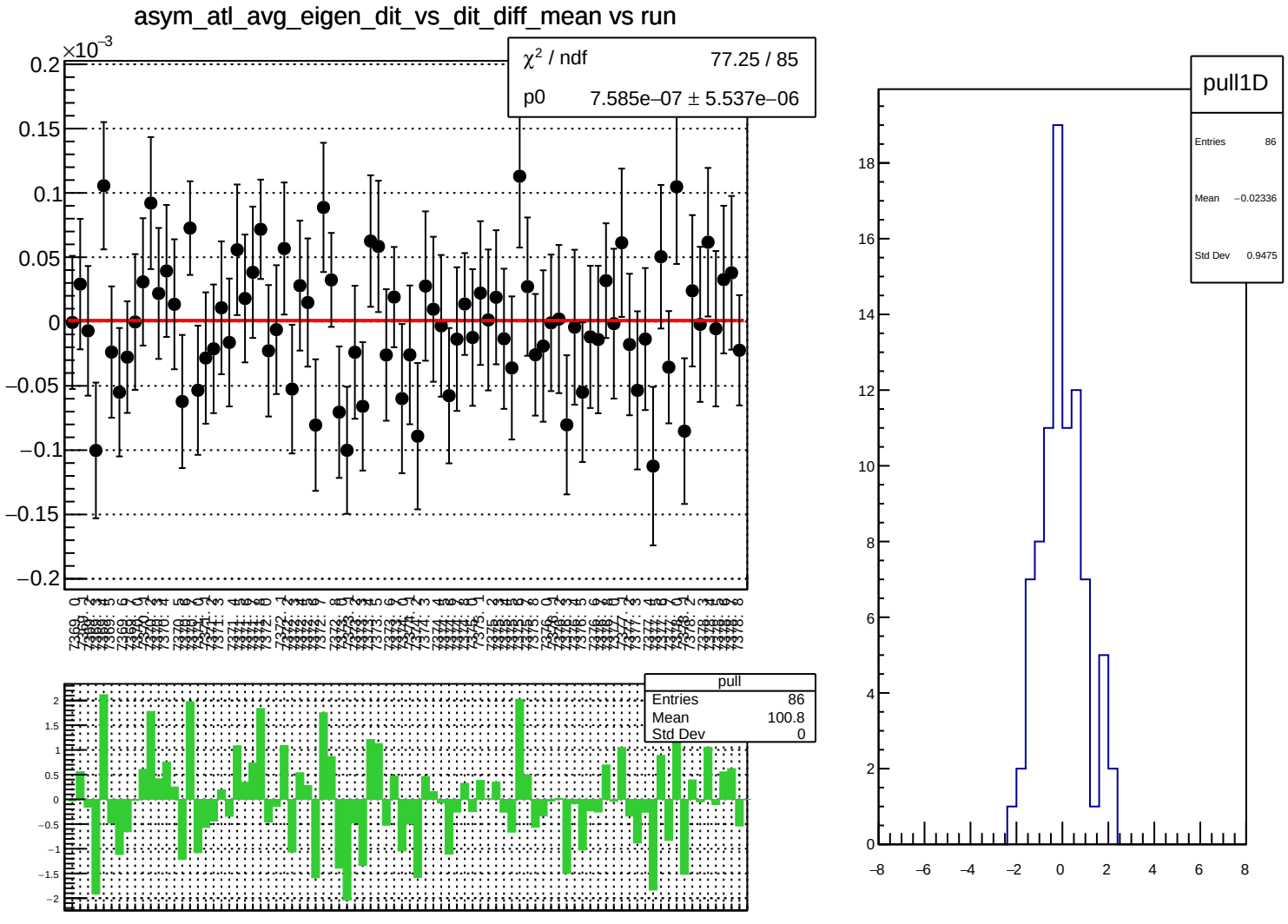

pull1D
Entries 86
Mean 0.03425
Std Dev 1.074

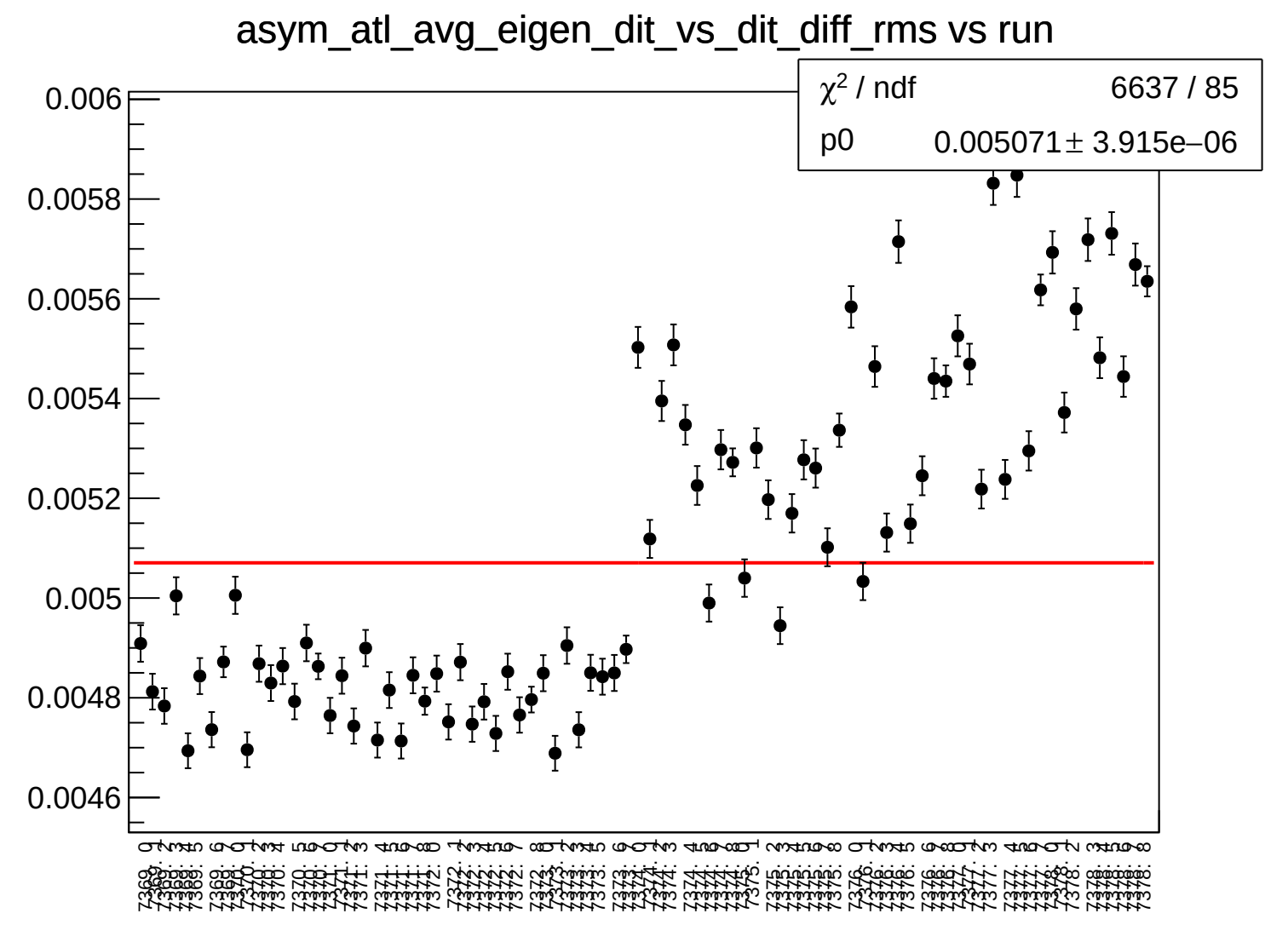

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.24e+04 / 85
p0 964.4 ± 0.7527
1400
1300
1200
1100
1000
900
800
700
600

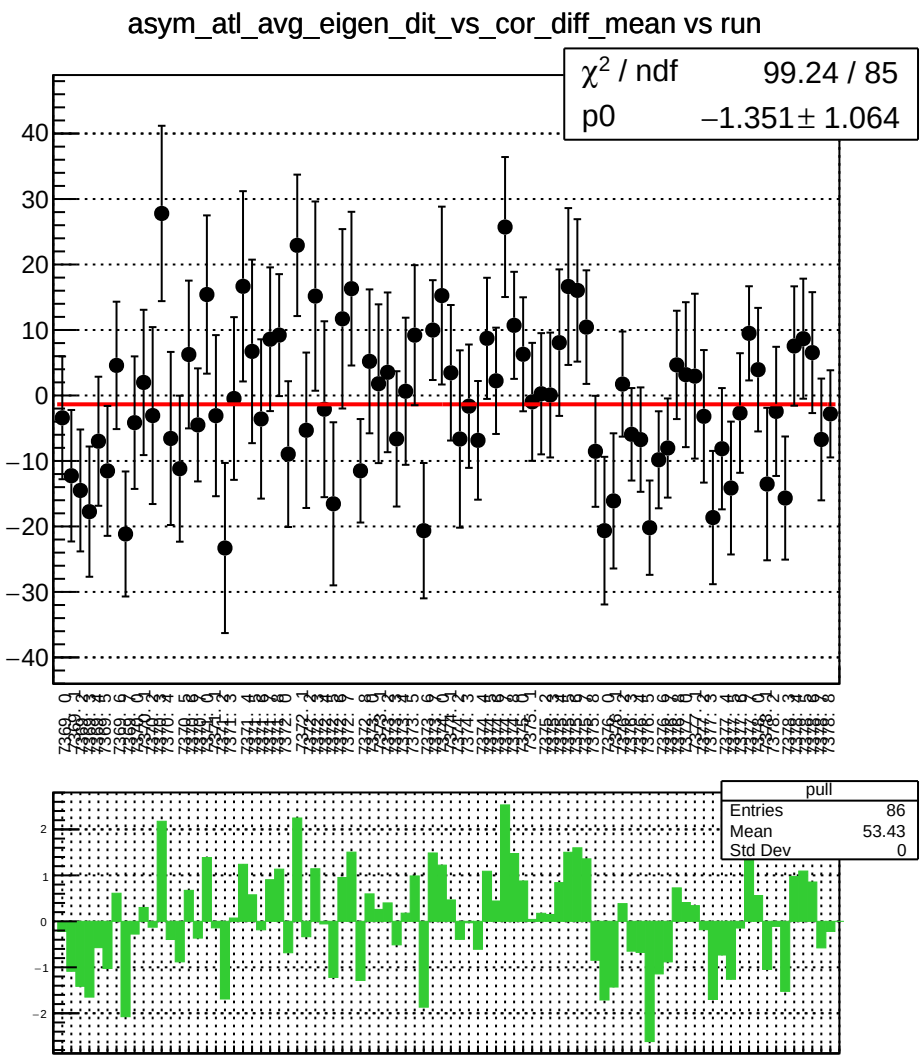

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.24 / 85
p0 −1.351± 1.064
pull
Entries 86
Mean 53.43
Std Dev 0

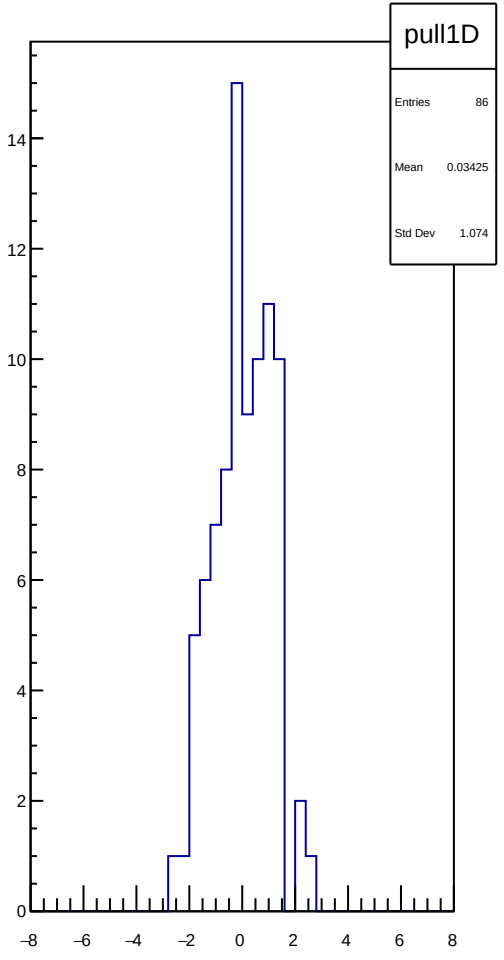

pull1D
Entries 86
Mean 0.03425
Std Dev 1.074

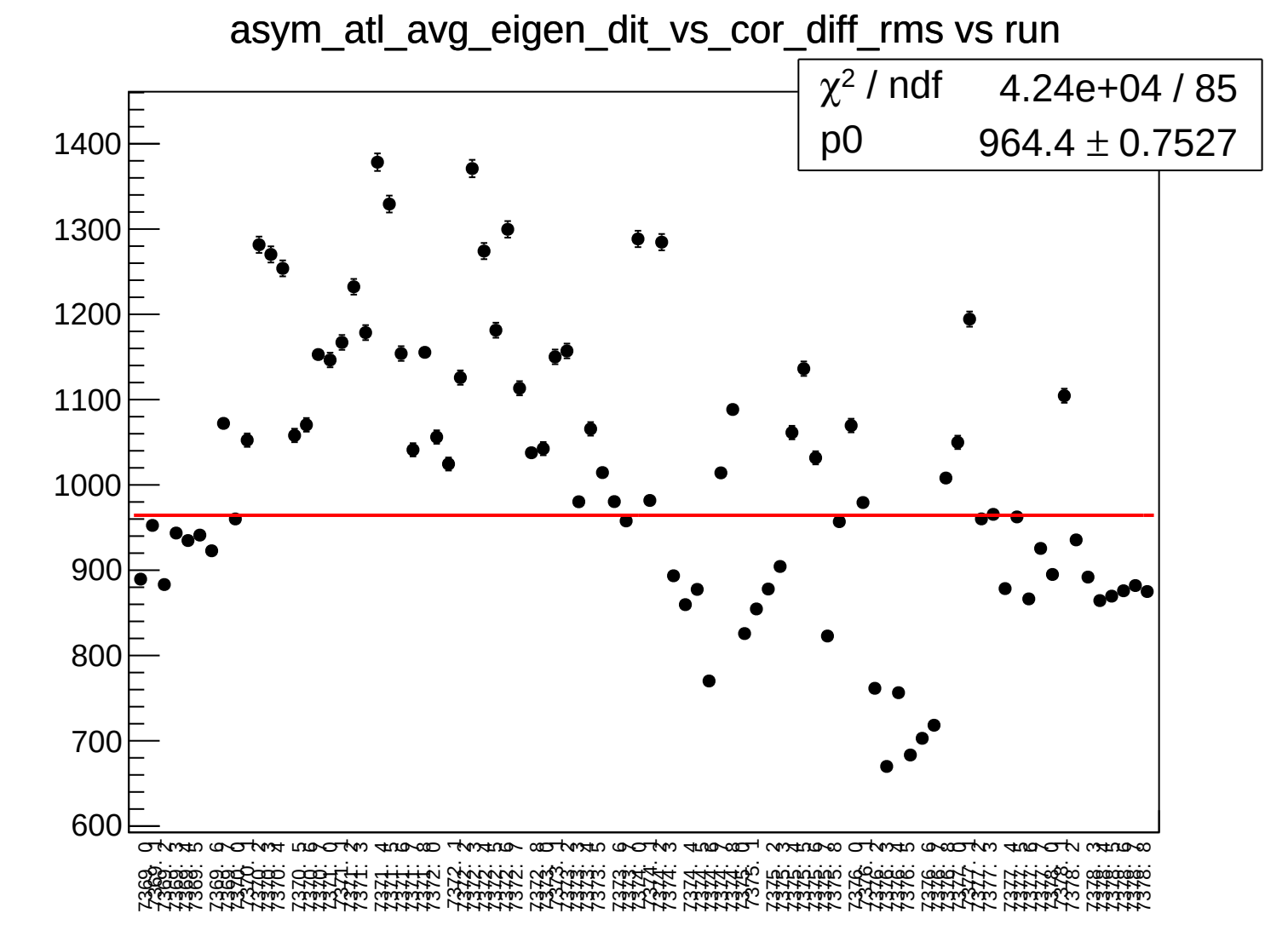

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.24e+04 / 85
p0 964.4 ± 0.7527
1400
1300
1200
1100
1000
900
800
700
600

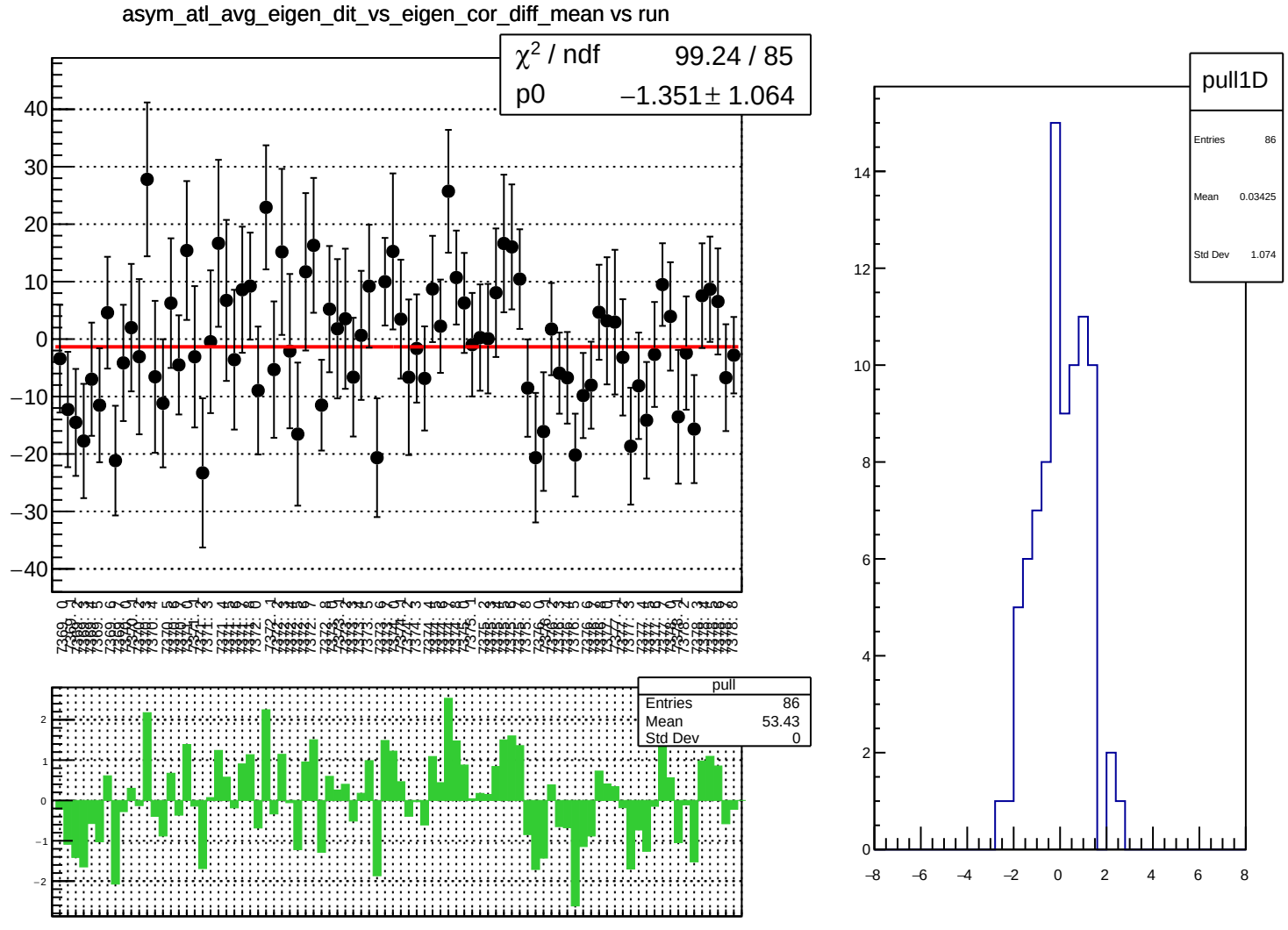

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.25 / 85
p0 7.585e−07 ± 5.537e−06
pull
Entries 86
Mean 100.8
Std Dev 0
pull1D
Entries 86
Mean −0.02336
Std Dev 0.9475

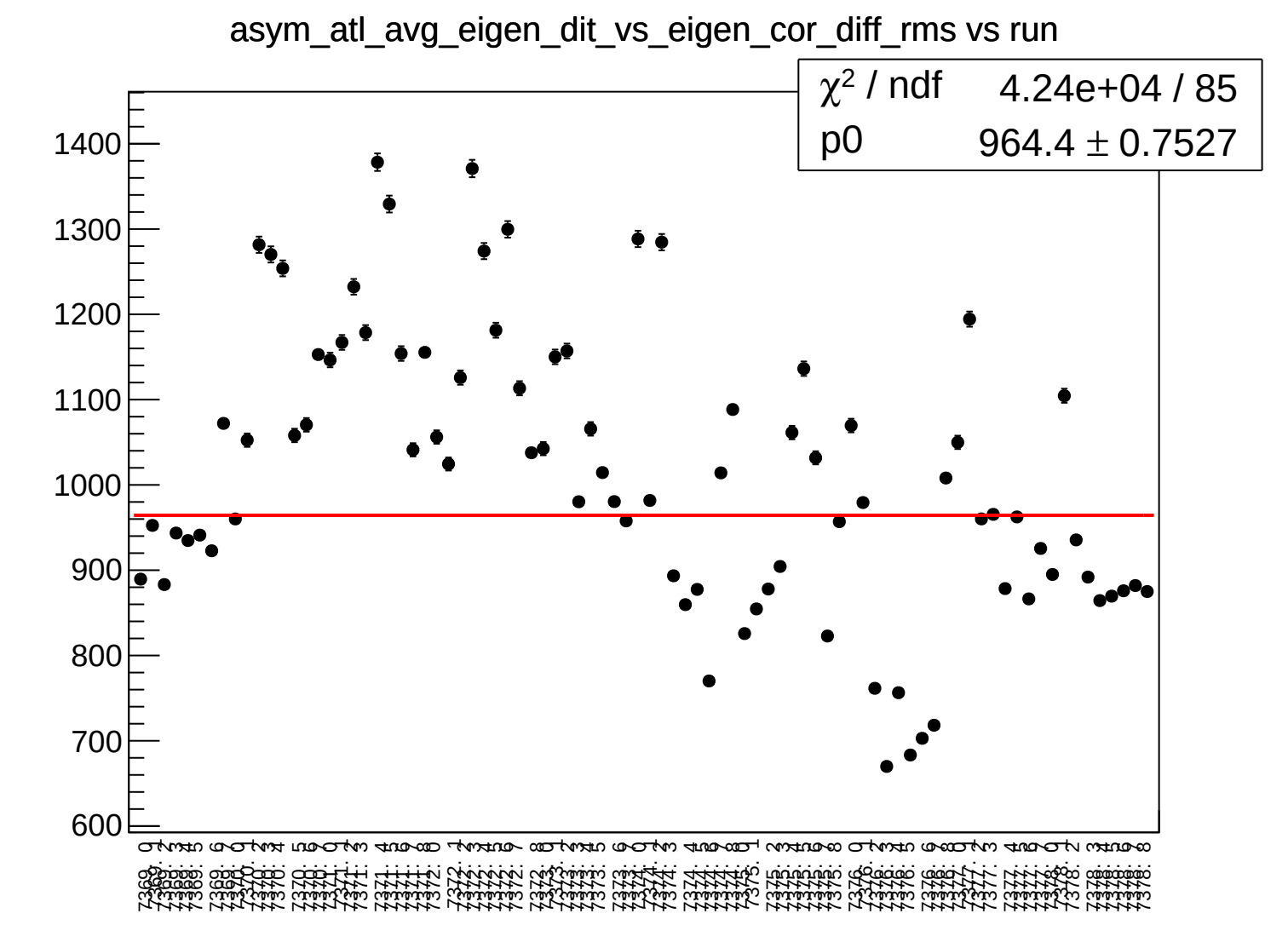

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6637 / 85
p0 0.005071 ± 3.915e−06
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046

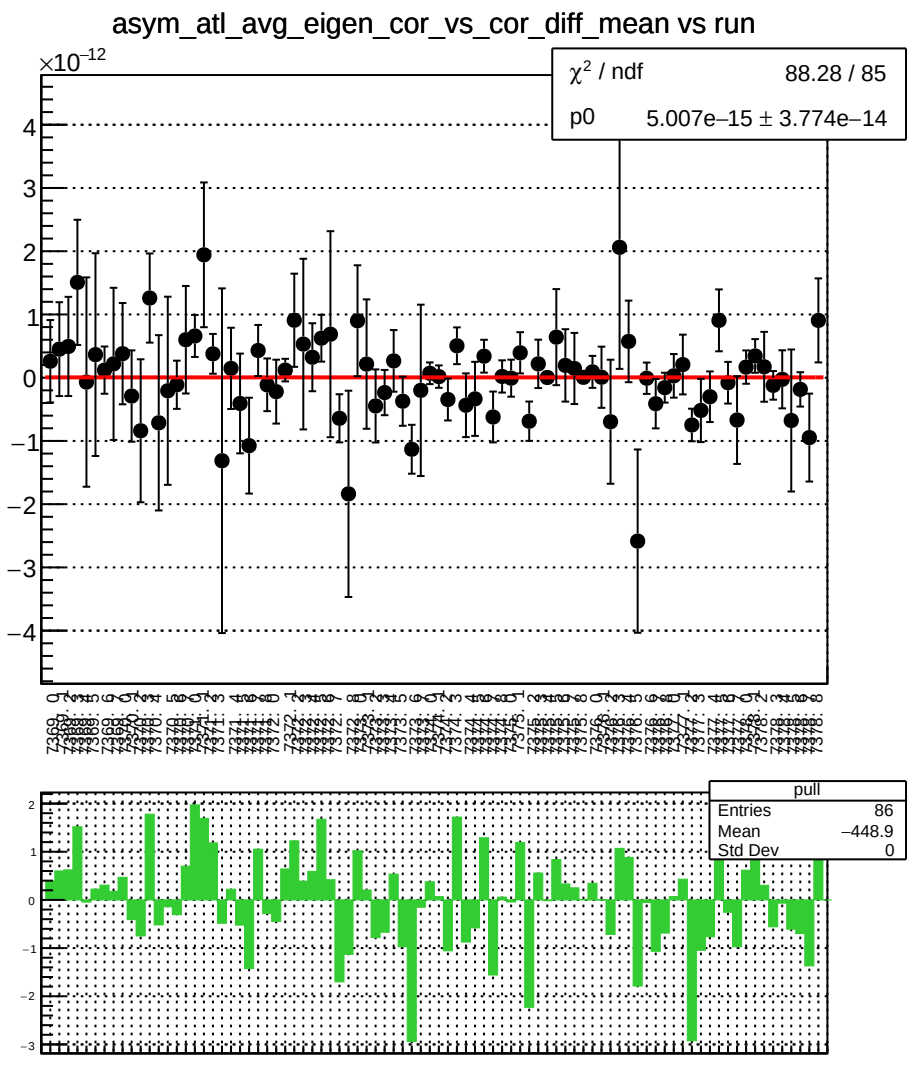

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.24 / 85
p0 −1.351± 1.064
pull
Entries 86
Mean 53.43
Std Dev 0

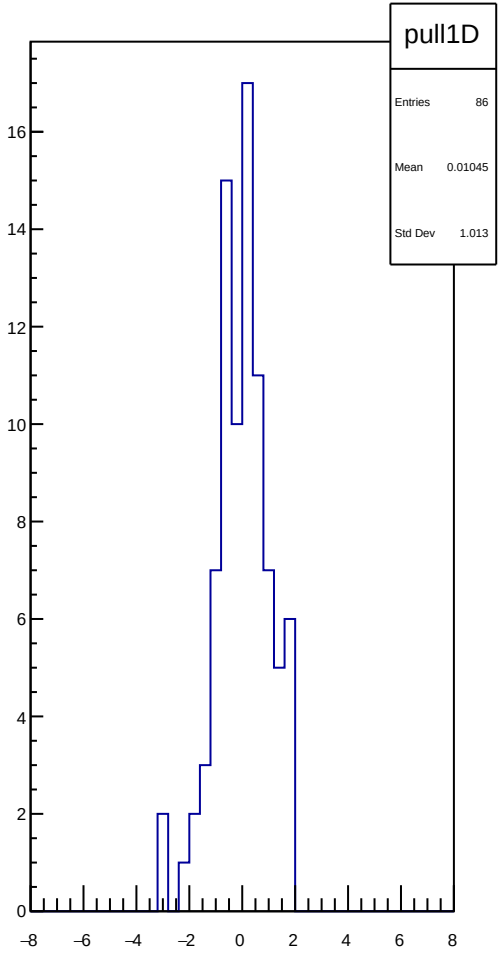

pull1D
Entries 86
Mean 0.03425
Std Dev 1.074

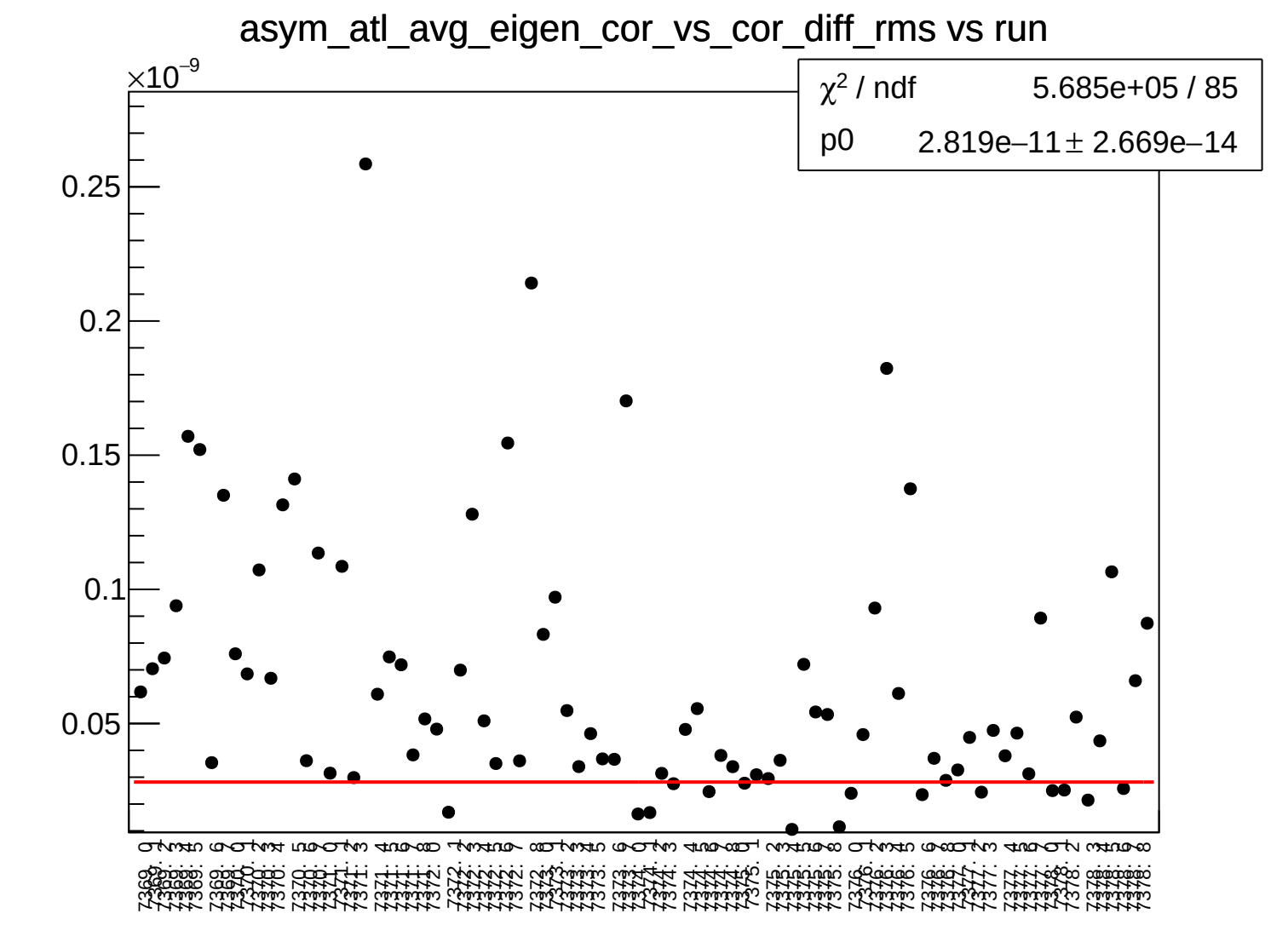

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.24e+04 / 85
p0 964.4 ± 0.7527
1400
1300
1200
1100
1000
900
800
700
600

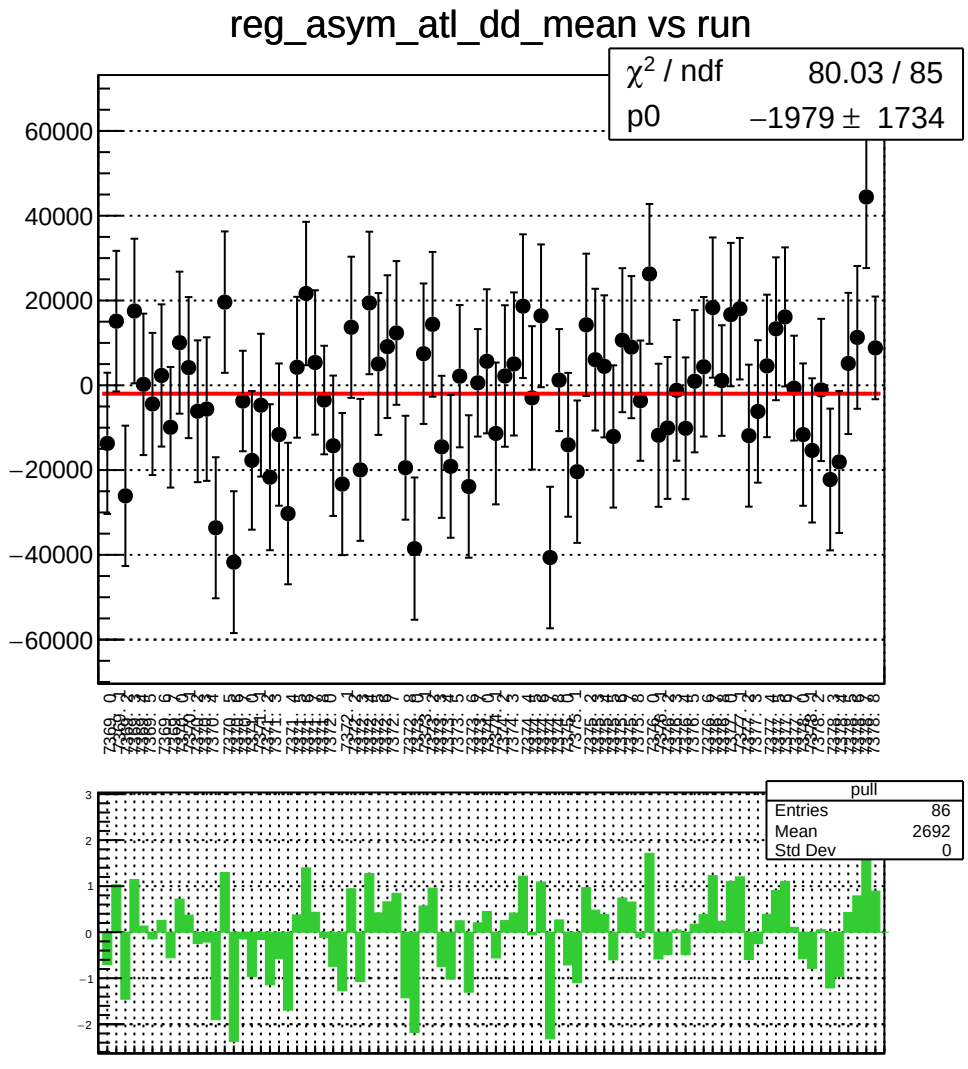

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.24 / 85
p0 −1.351± 1.064
pull
Entries 86
Mean 53.43
Std Dev 0
pull1D
Entries 86
Mean 0.03425
Std Dev 1.074

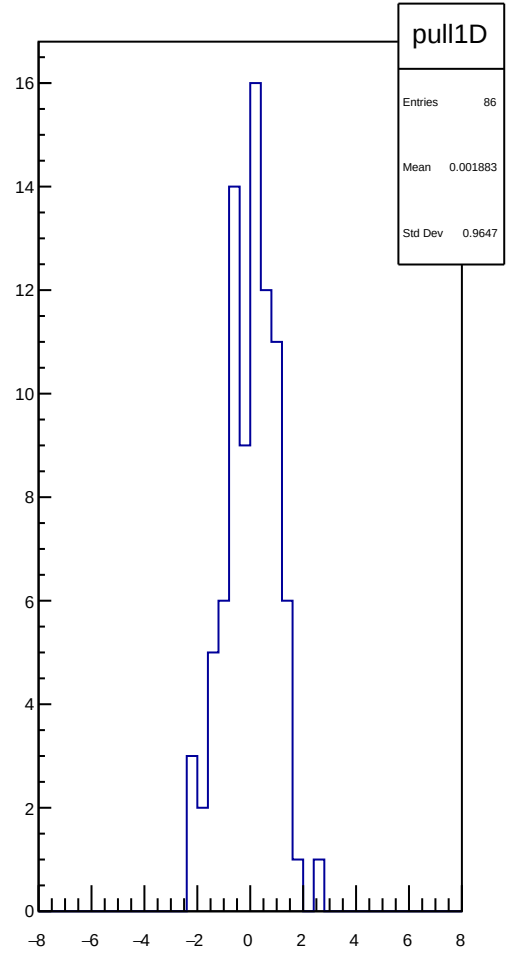

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.24e+04 / 85
p0 964.4 ± 0.7527
1400
1300
1200
1100
1000
900
800
700
600

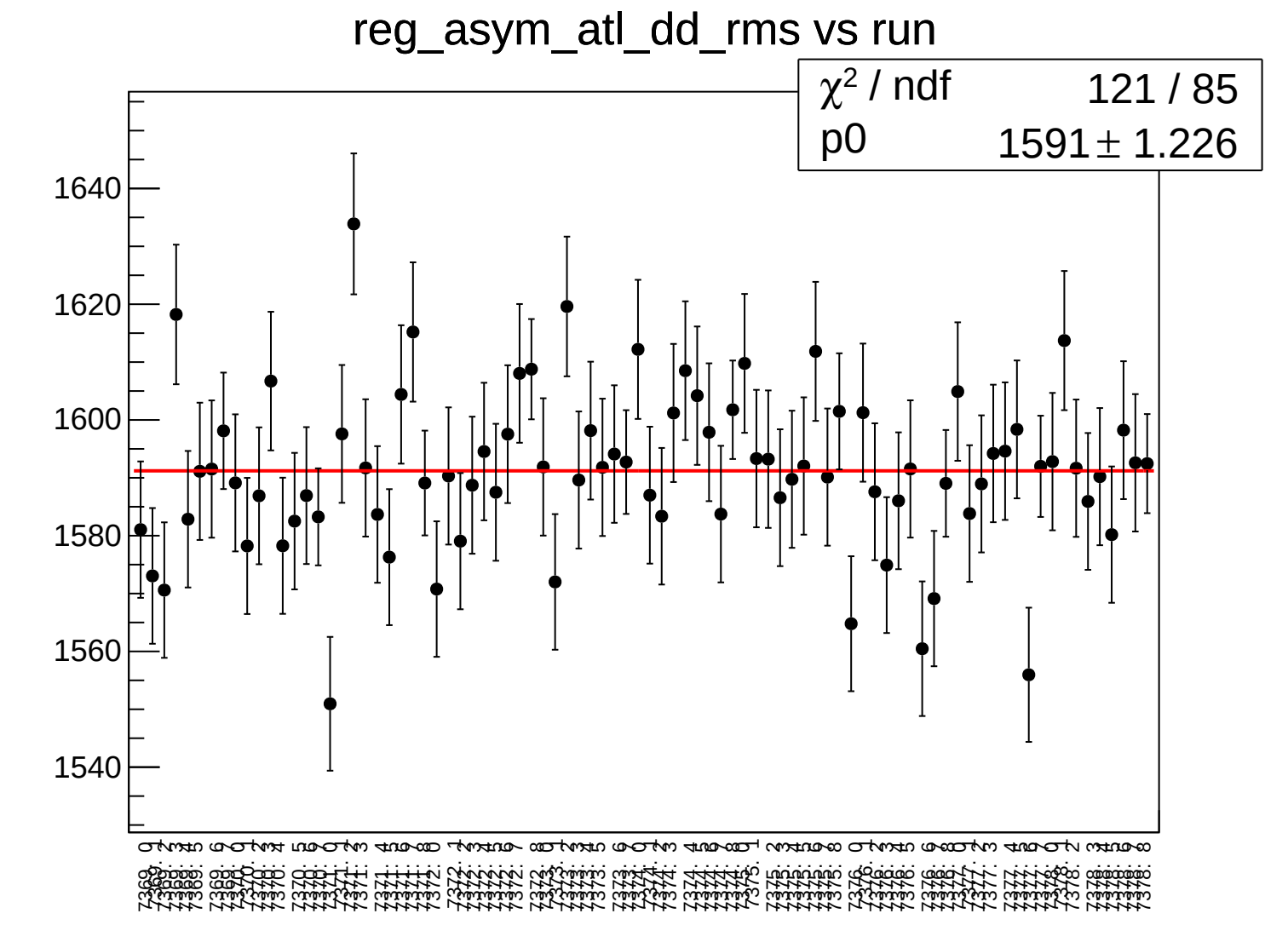

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.28 / 85
p0 5.007e−15 ± 3.774e−14
pull
Entries 86
Mean −448.9
Std Dev 0

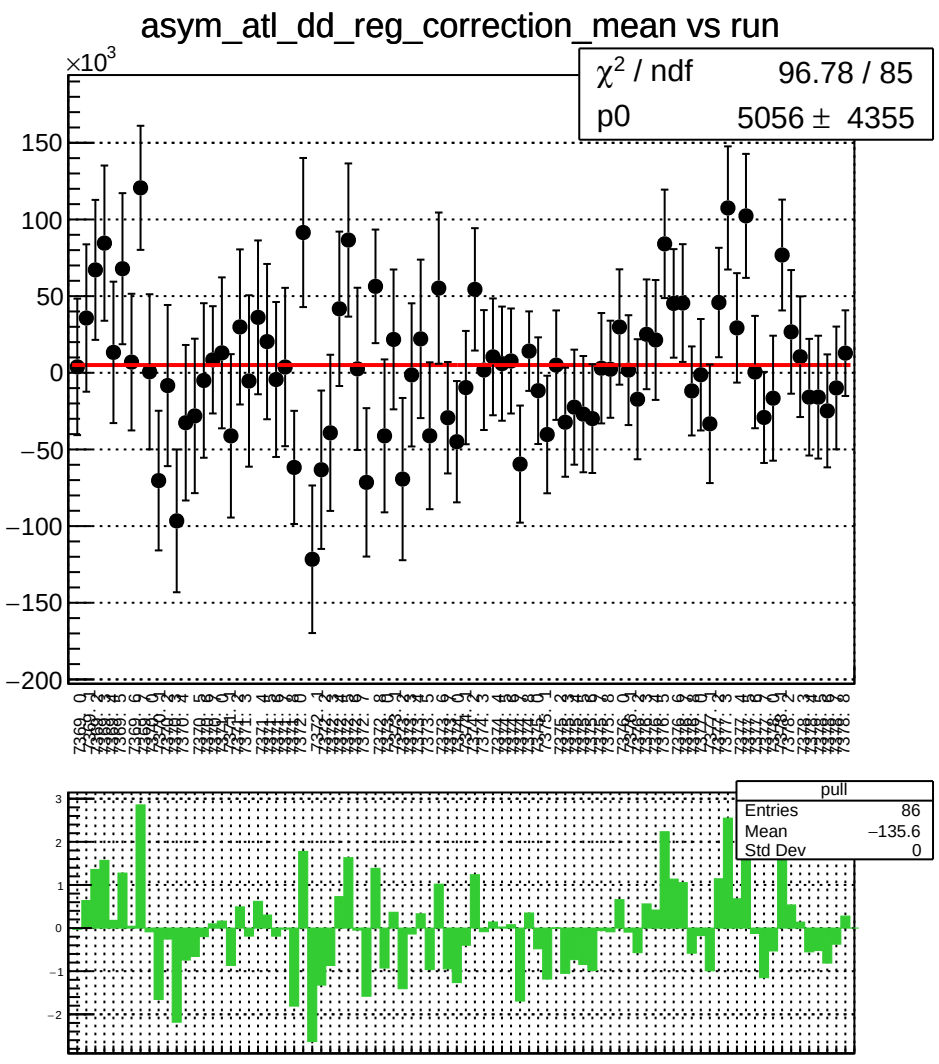

pull1D
Entries 86
Mean 0.01045
Std Dev 1.013

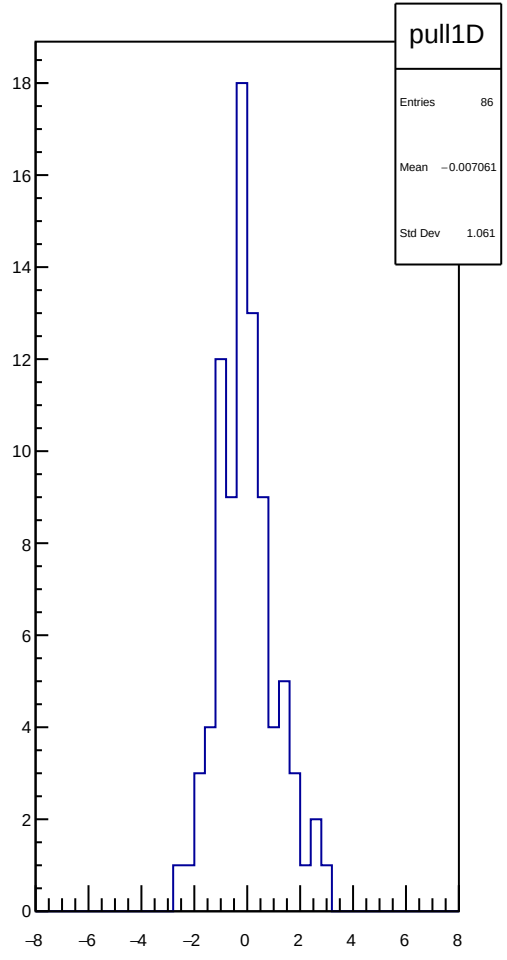

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.685e+05 / 85
p0 2.819e−11 ± 2.669e−14
0.25
0.2
0.15
0.1
0.05

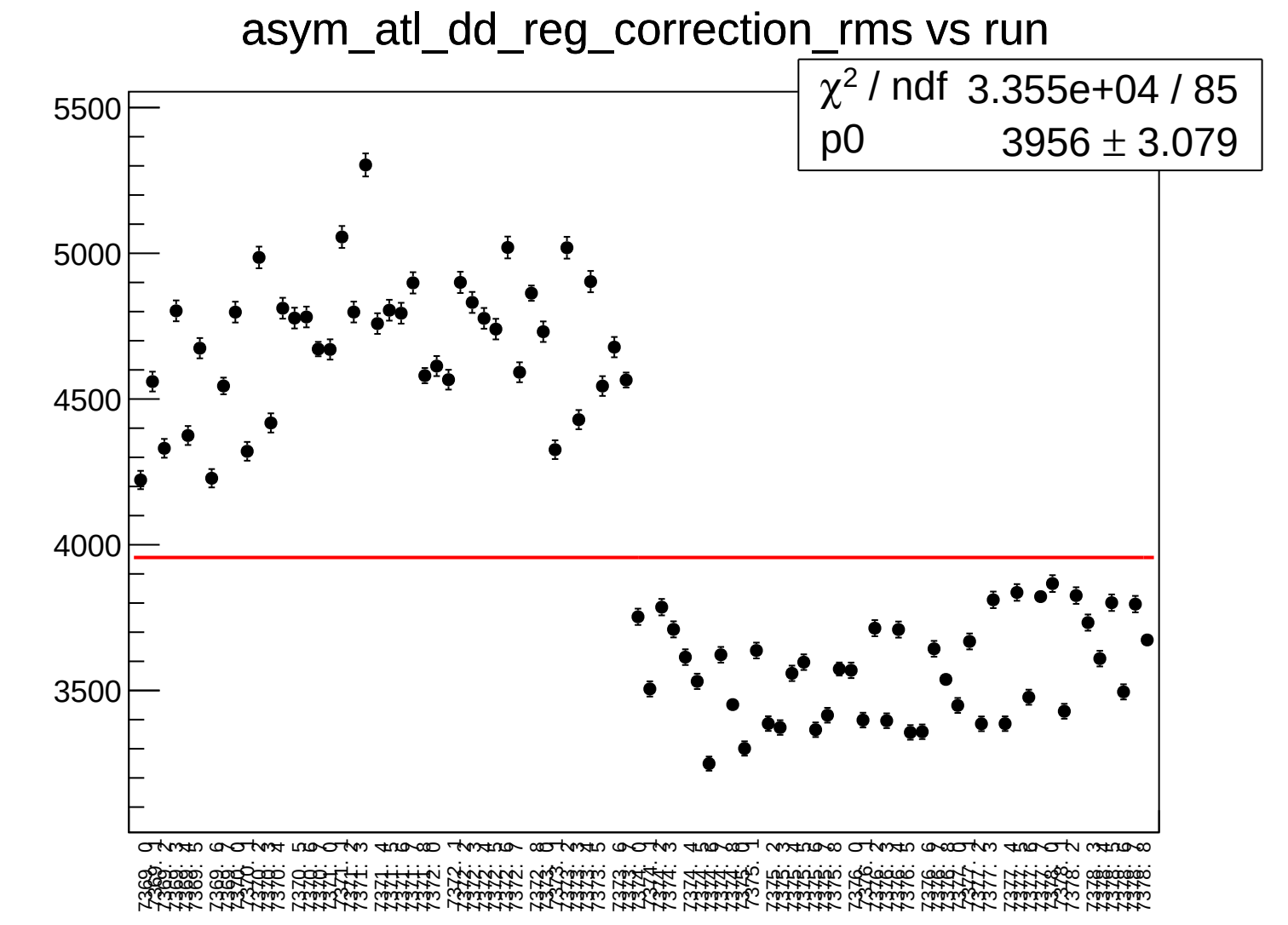

reg_asym_atl_dd_mean vs run
χ² / ndf 80.03 / 85
p0 −1979 ± 1734
pull
Entries 86
Mean 2692
Std Dev 0

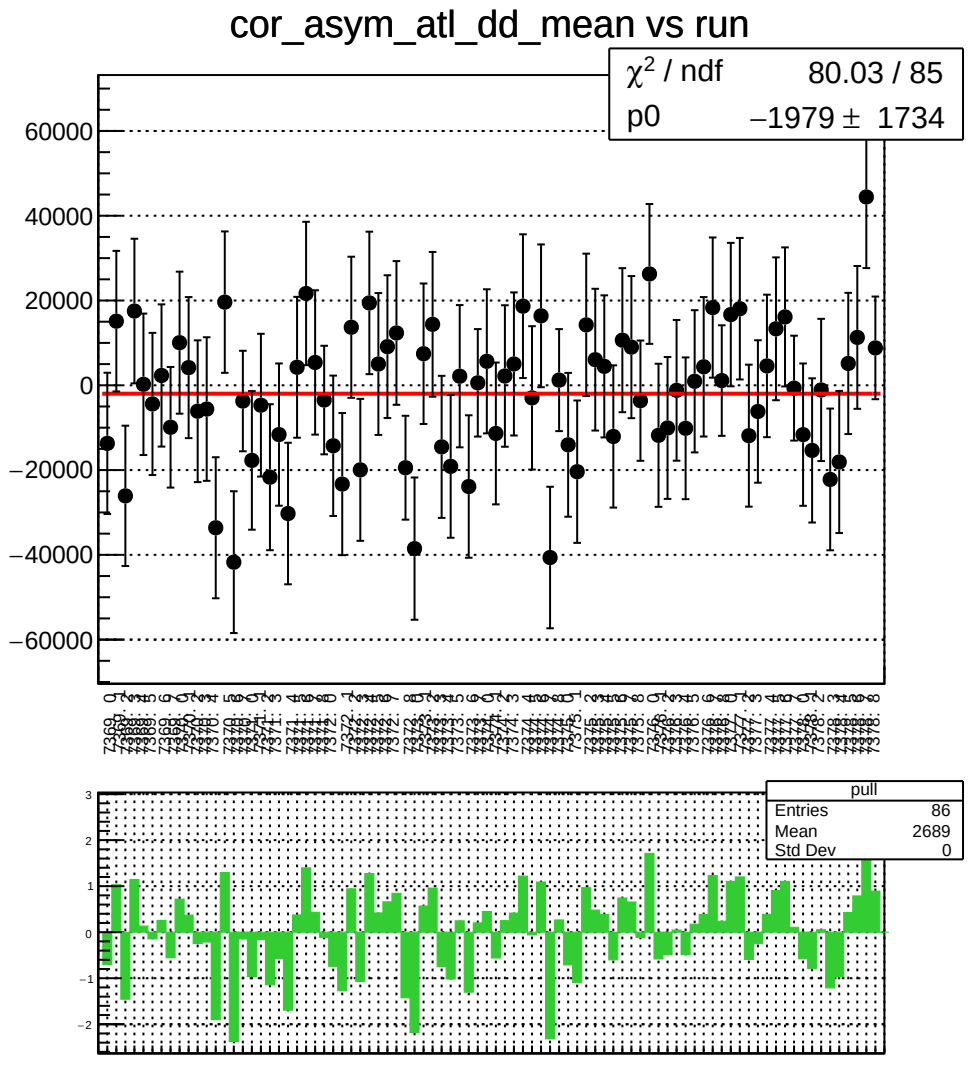

pull1D
Entries 86
Mean 0.001883
Std Dev 0.9647

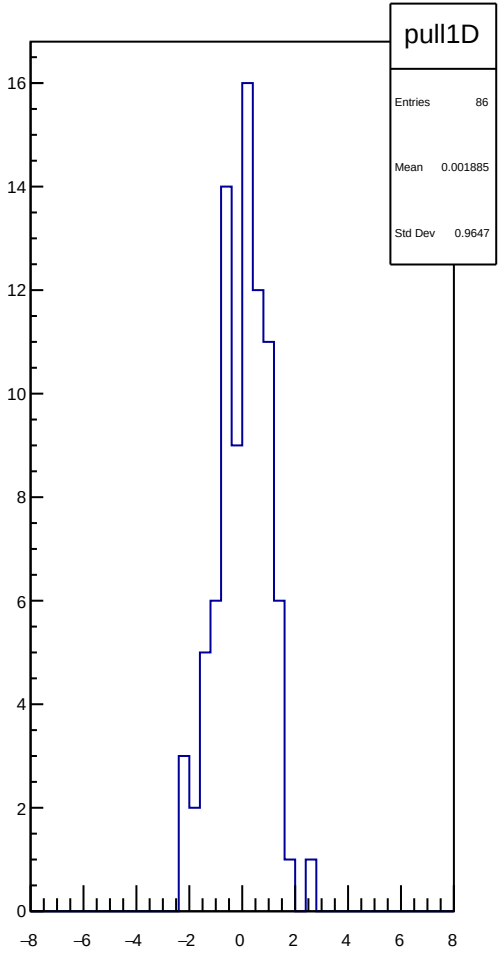

reg_asym_atl_dd_rms vs run
χ² / ndf 121 / 85
p0 1591 ± 1.226
1640
1620
1600
1580
1560
1540

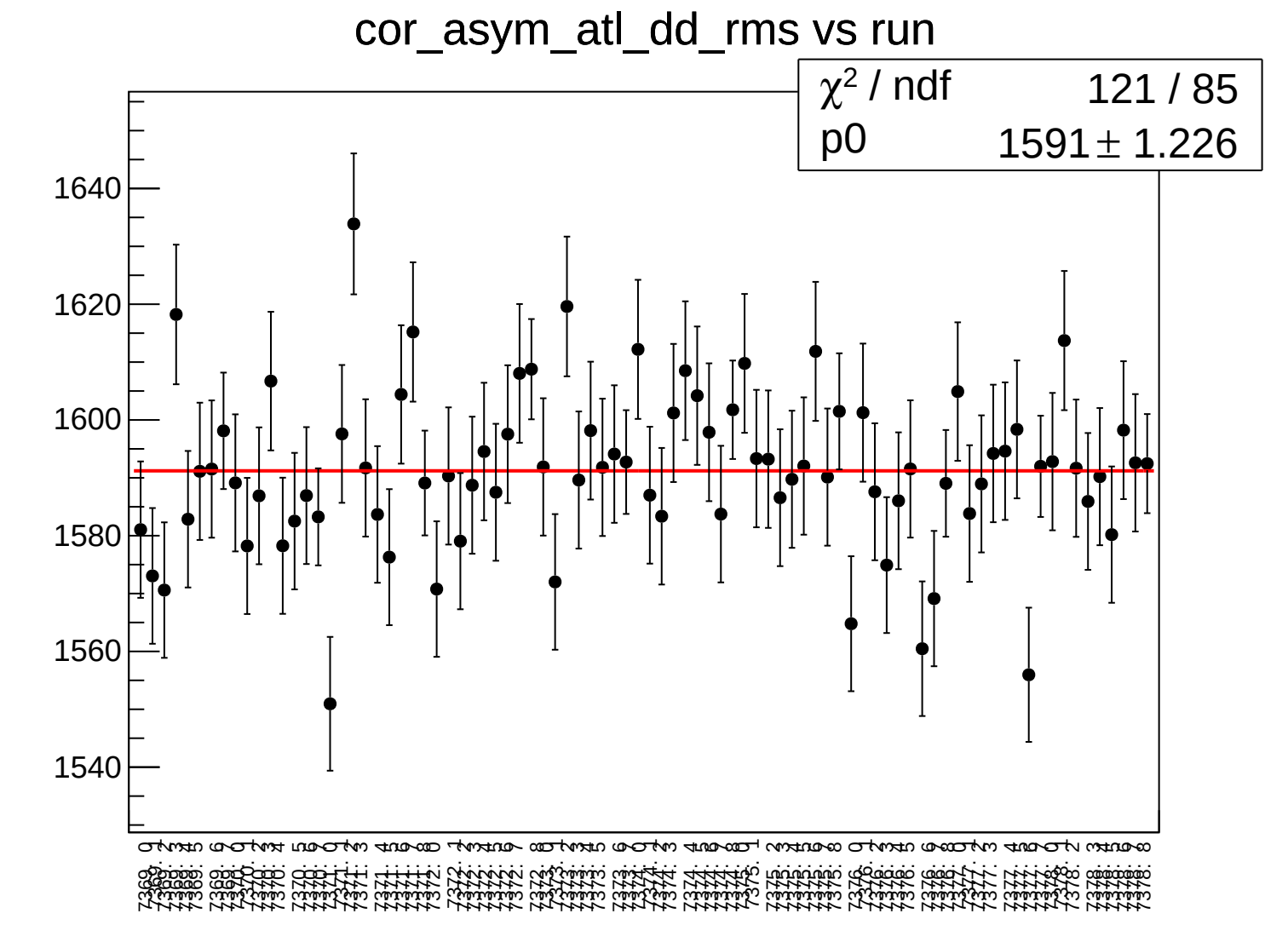

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.78 / 85
p0 5056 ± 4355
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −135.6
Std Dev 0
3
2
1
0
−1
−2

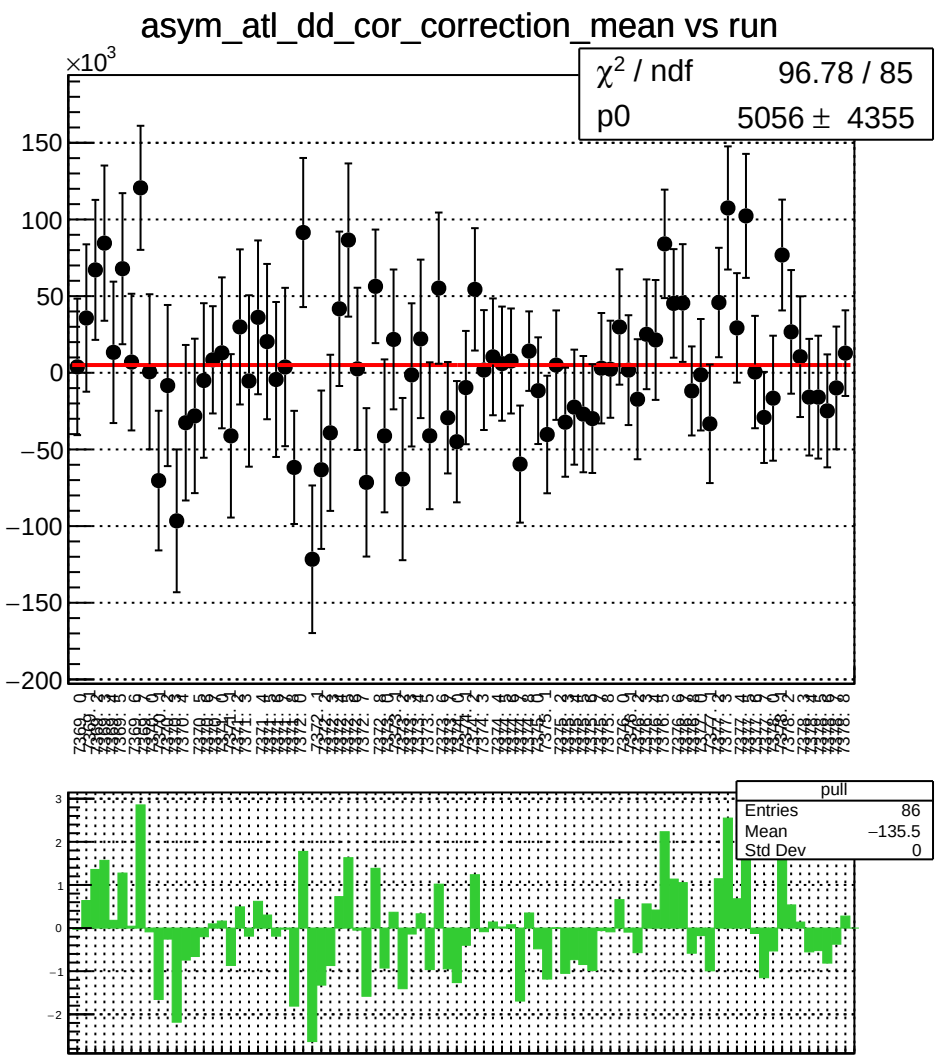

pull1D
Entries 86
Mean −0.007061
Std Dev 1.061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

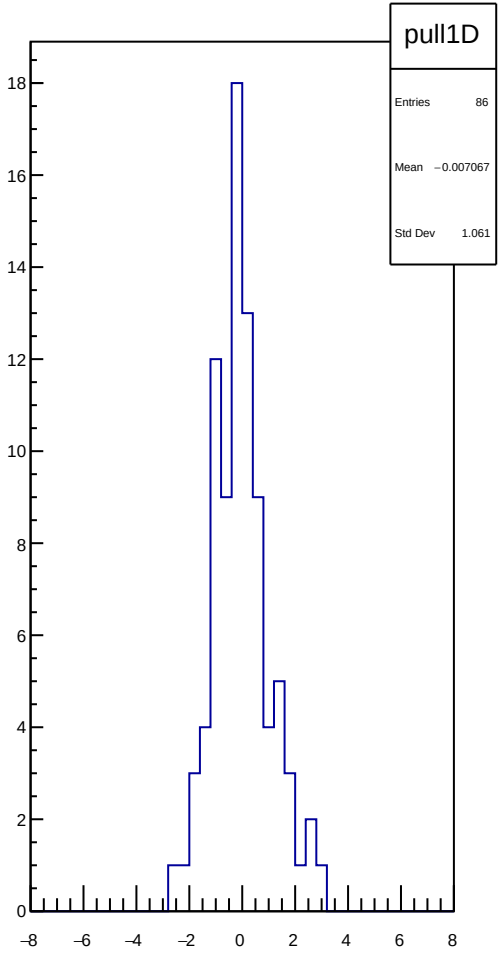

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 3.355e+04 / 85
p0 3956 ± 3.079
5500
5000
4500
4000
3500

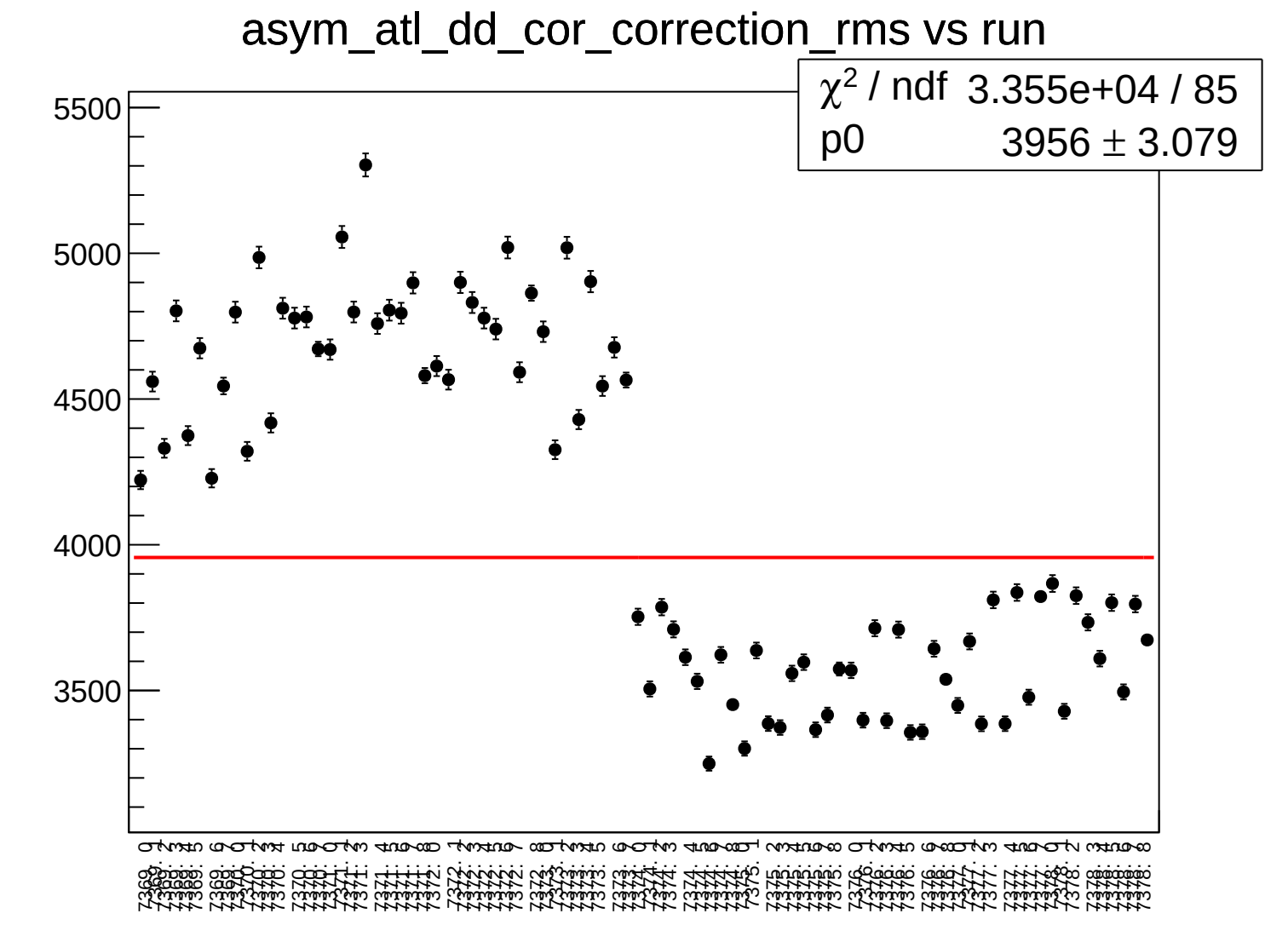

cor_asym_atl_dd_mean vs run
χ² / ndf 80.03 / 85
p0 −1979 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2689
Std Dev 0
3
2
1
0
−1
−2

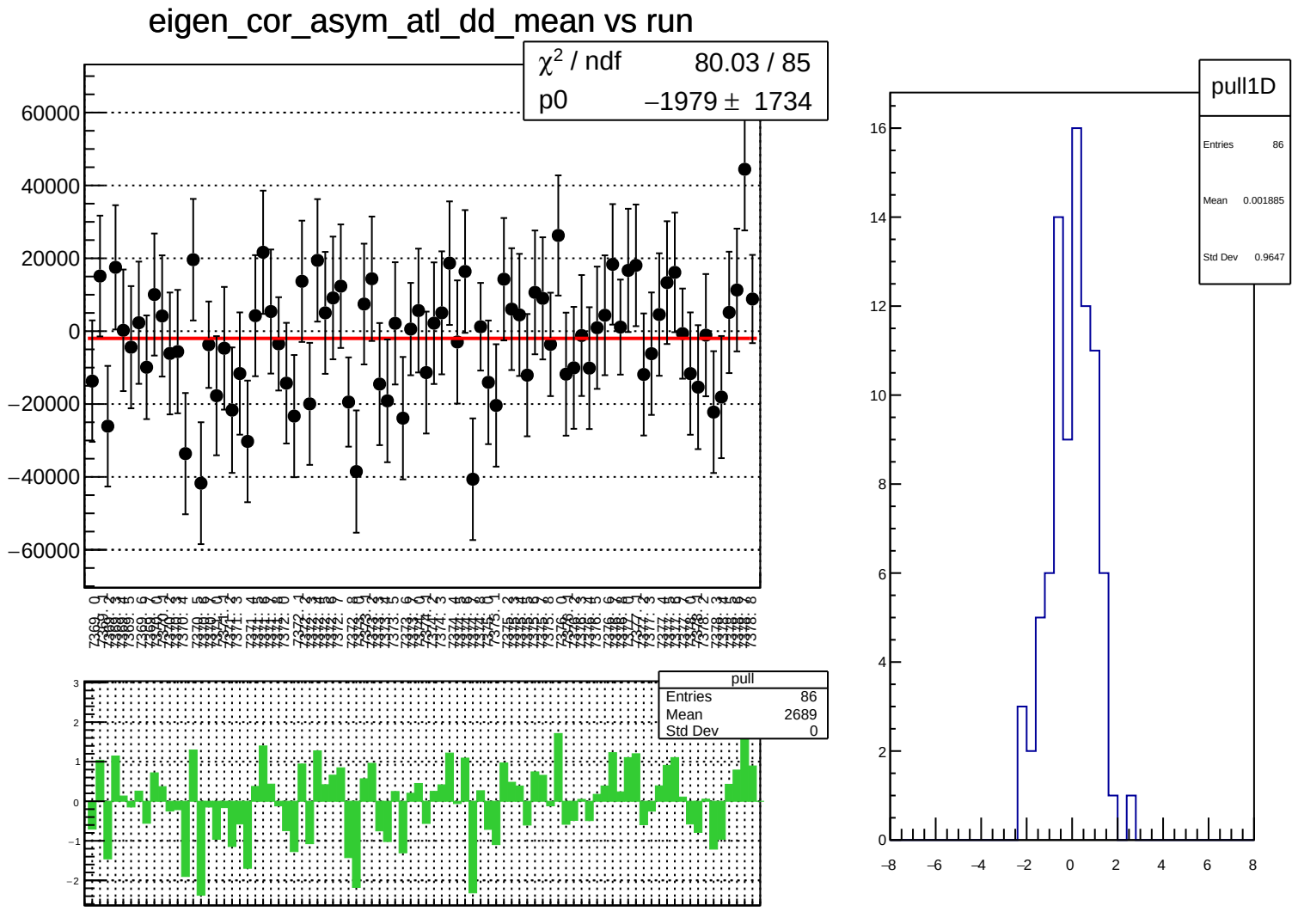

pull1D
Entries 86
Mean 0.001885
Std Dev 0.9647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

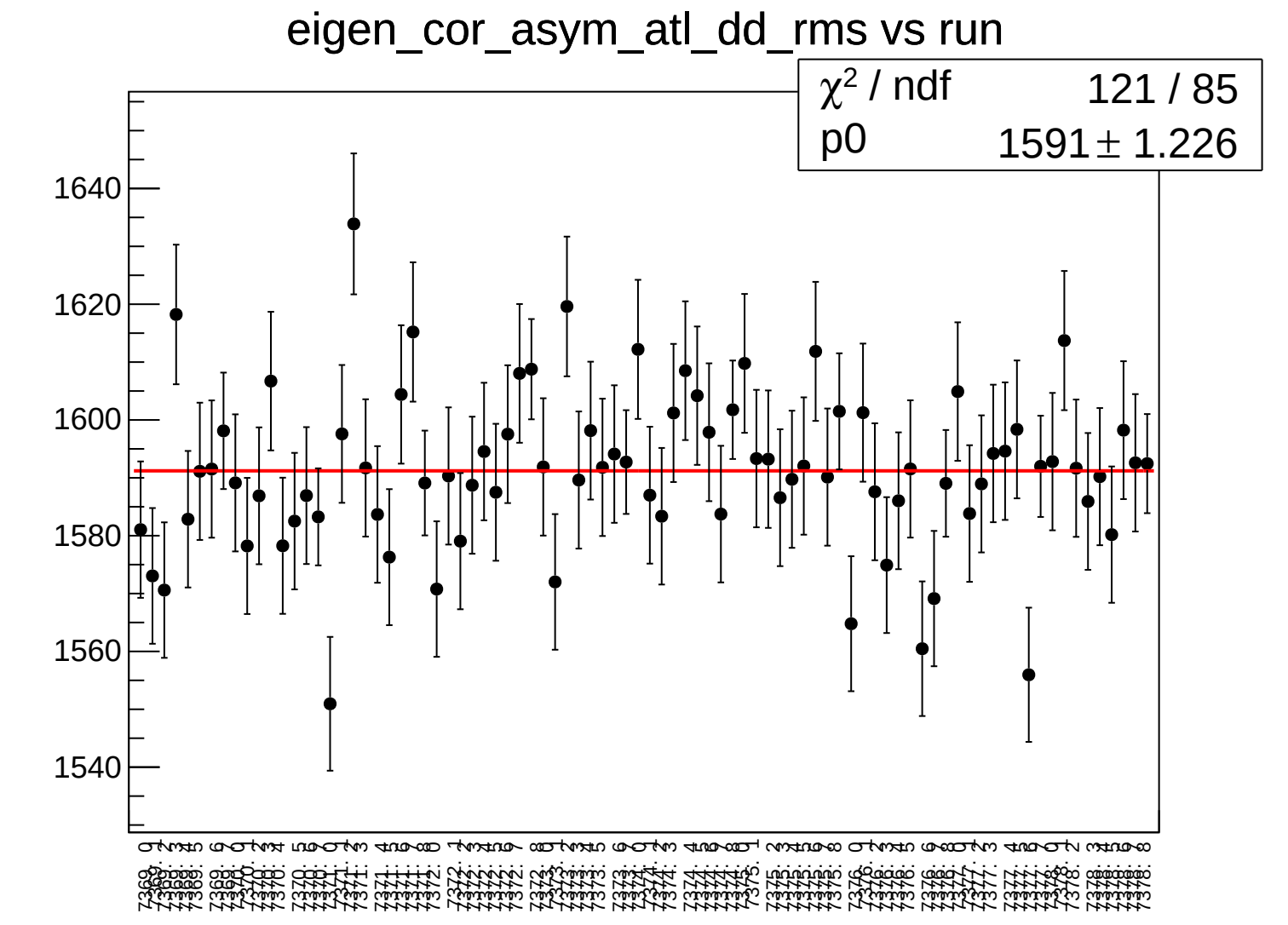

cor_asym_atl_dd_rms vs run
χ² / ndf 121 / 85
p0 1591 ± 1.226
1640
1620
1600
1580
1560
1540

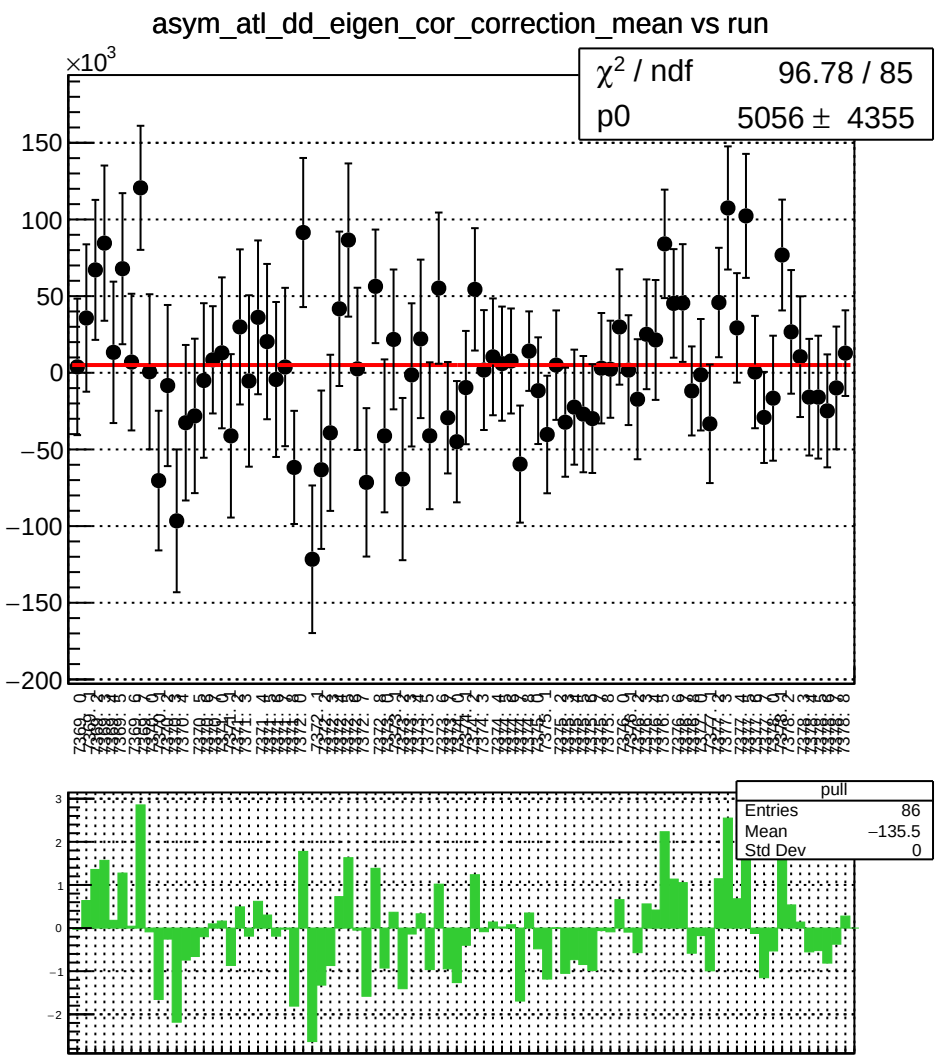

asym_atl_dd_cor_correction_mean vs run
χ^2 / ndf 96.78 / 85
p0 5056 ± 4355
×10^3
pull
Entries 86
Mean −135.5
Std Dev 0

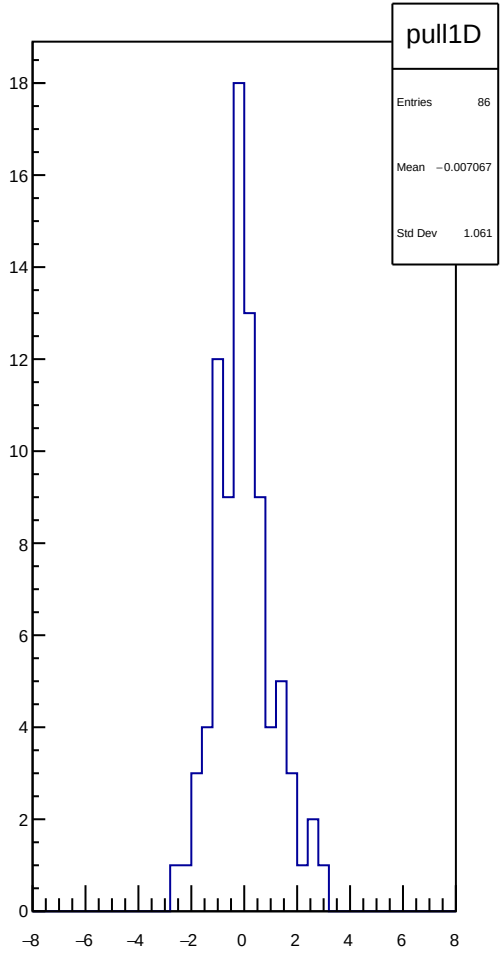

pull1D
Entries 86
Mean −0.007067
Std Dev 1.061

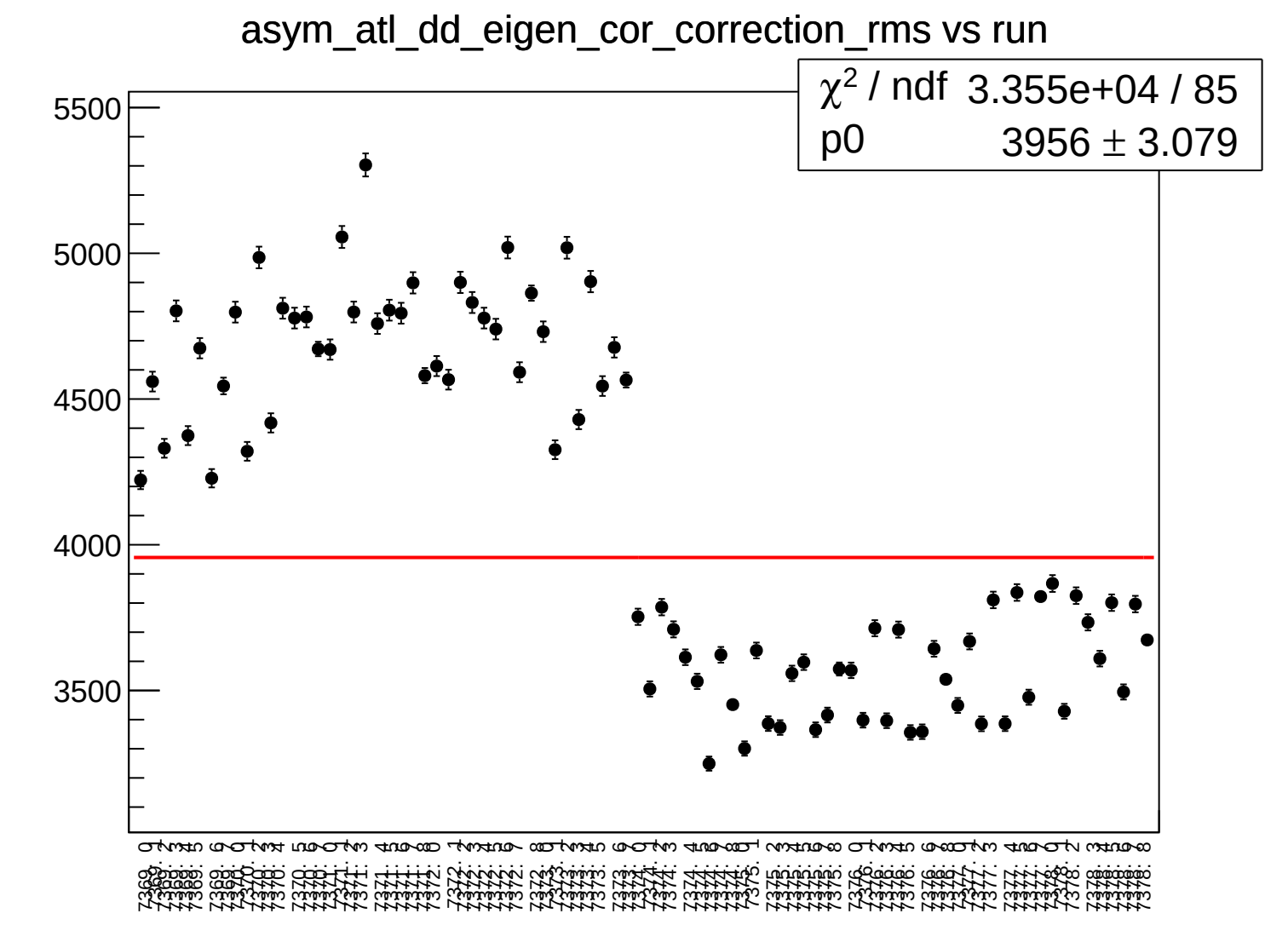

asym_atl_dd_cor_correction_rms vs run
χ^2 / ndf 3.355e+04 / 85
p0 3956 ± 3.079
5500
5000
4500
4000
3500

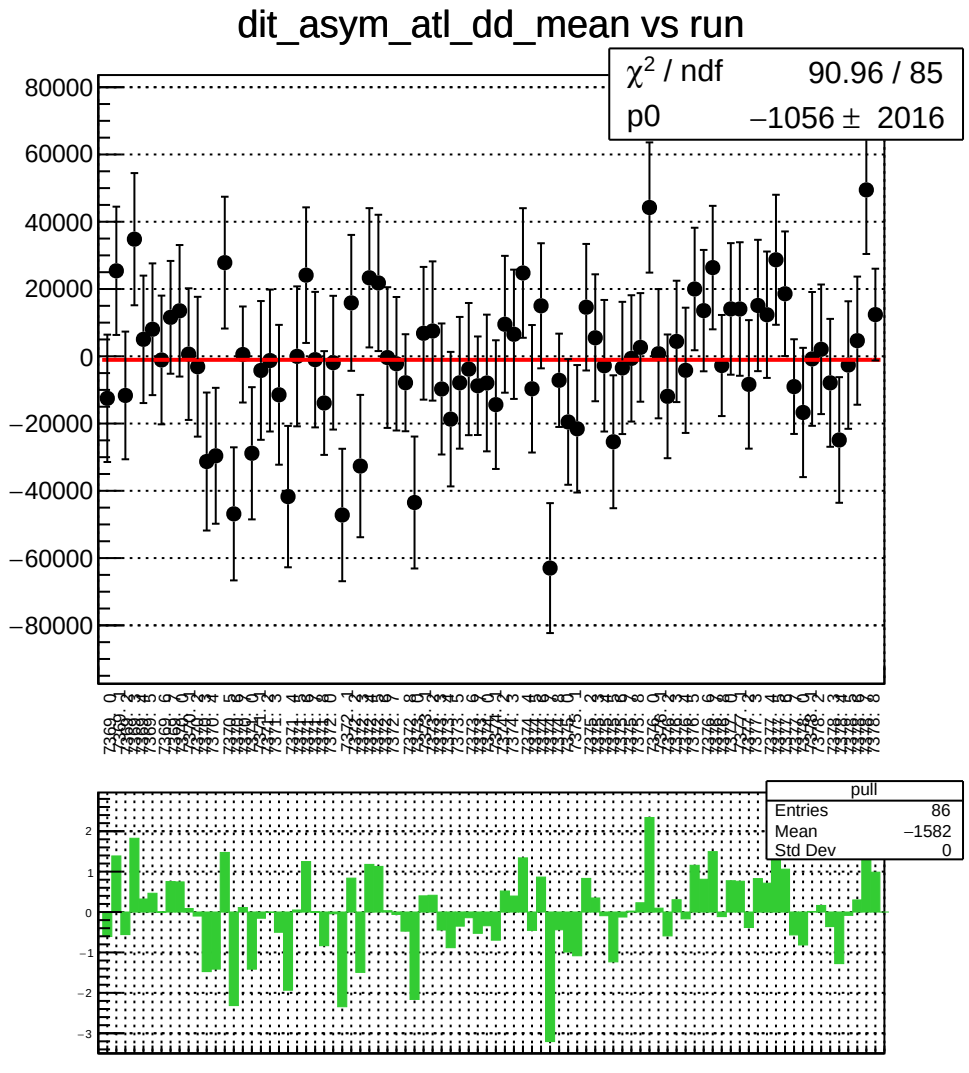

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 80.03 / 85
p0 −1979 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2689
Std Dev 0
pull1D
Entries 86
Mean 0.001885
Std Dev 0.9647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

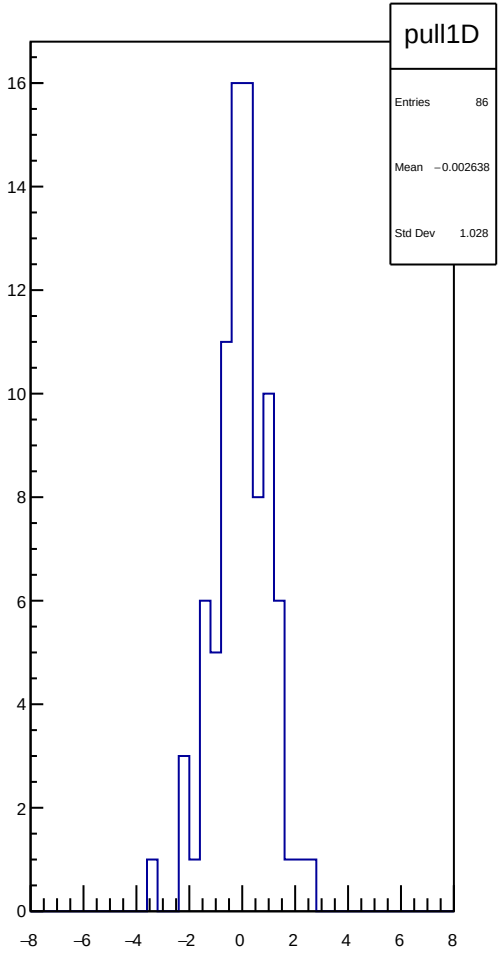

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 121 / 85
p0 1591 ± 1.226
1640
1620
1600
1580
1560
1540

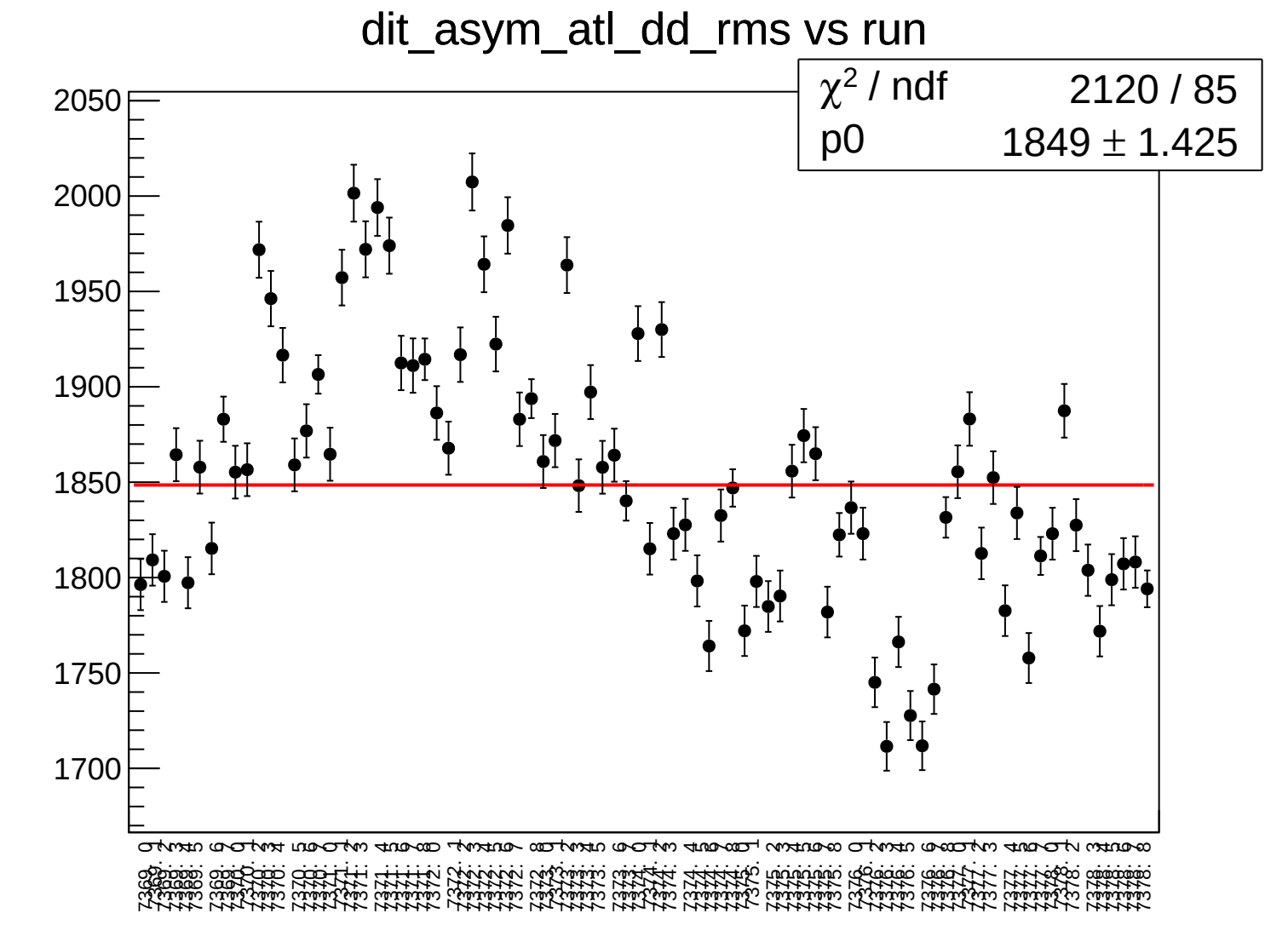

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.78 / 85
p0 5056 ± 4355
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −135.5
Std Dev 0
3
2
1
0
−1
−2

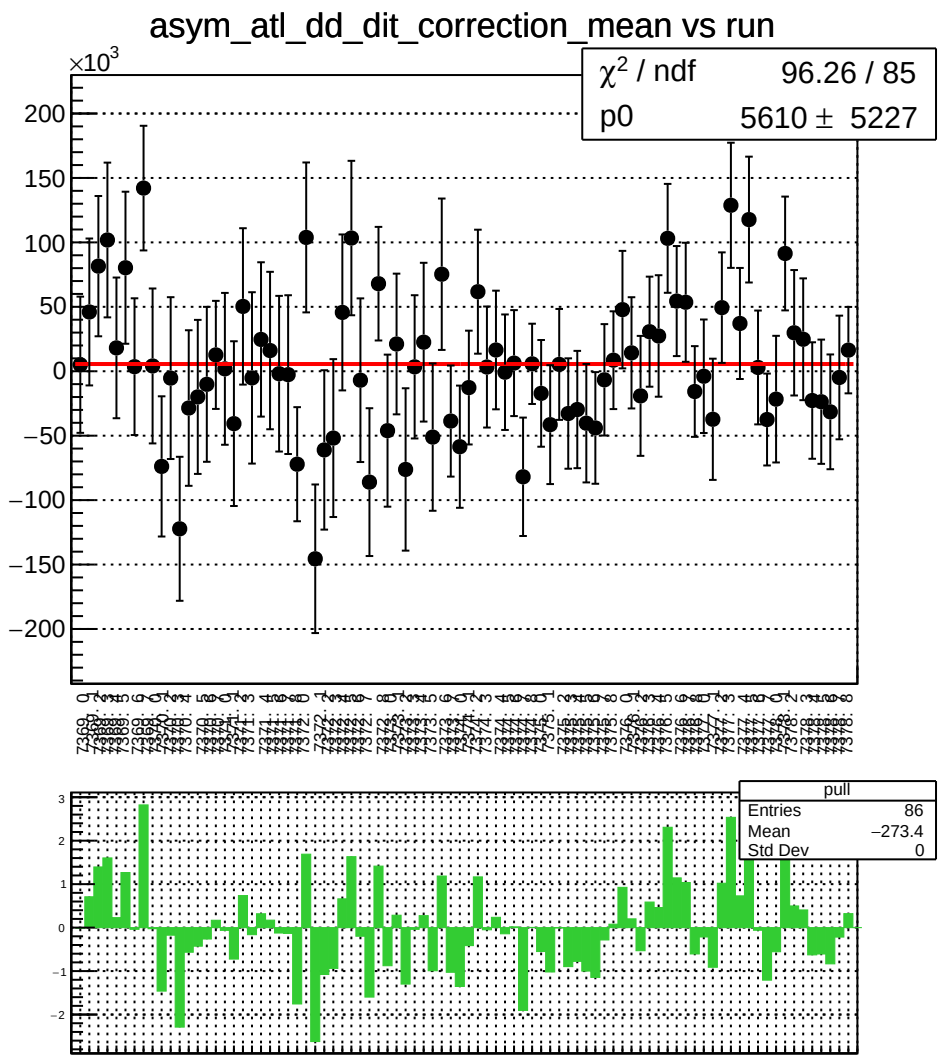

pull1D
Entries 86
Mean −0.007067
Std Dev 1.061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

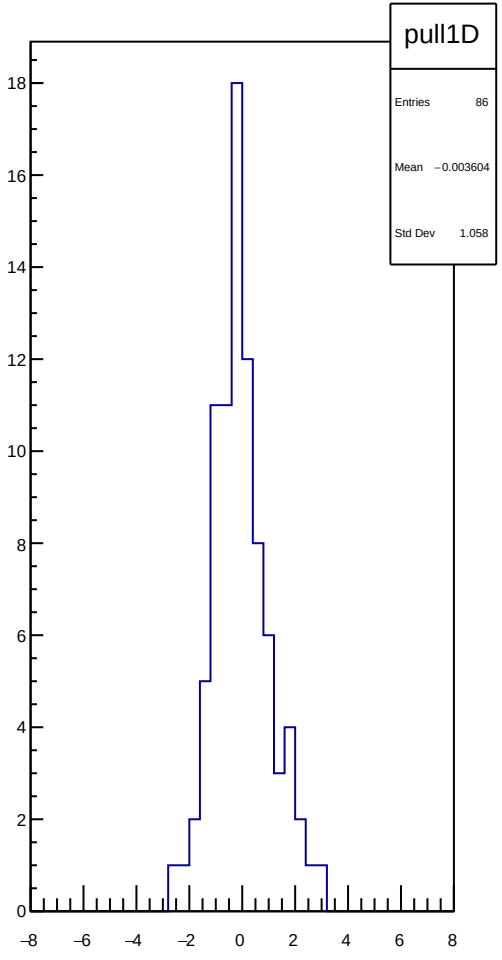

asym_atl_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 3.355e+04 / 85
p0 3956 ± 3.079
5500
5000
4500
4000
3500

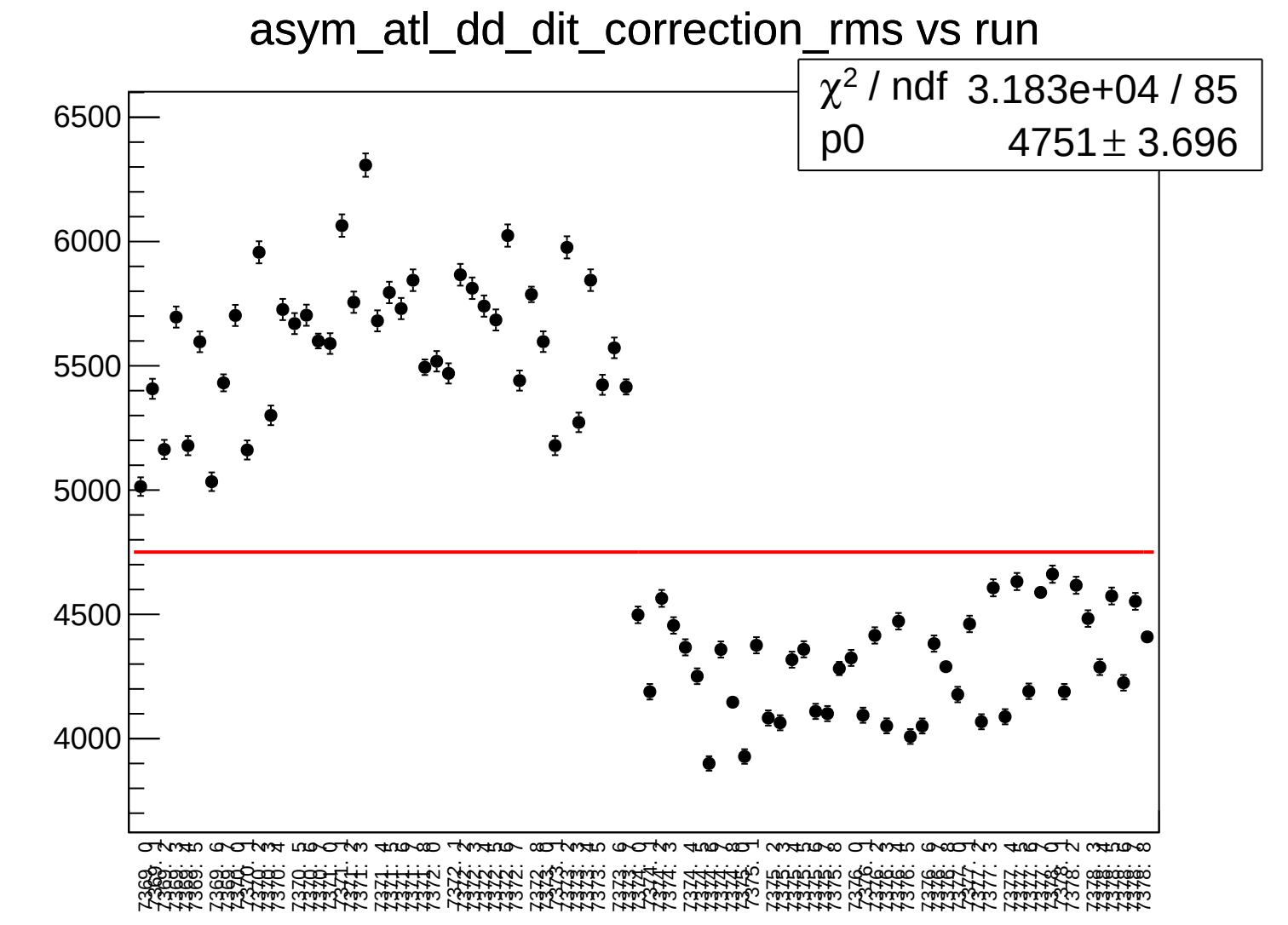

dit_asym_atl_dd_mean vs run
χ² / ndf 90.96 / 85
p0 −1056 ± 2016
pull
Entries 86
Mean −1582
Std Dev 0

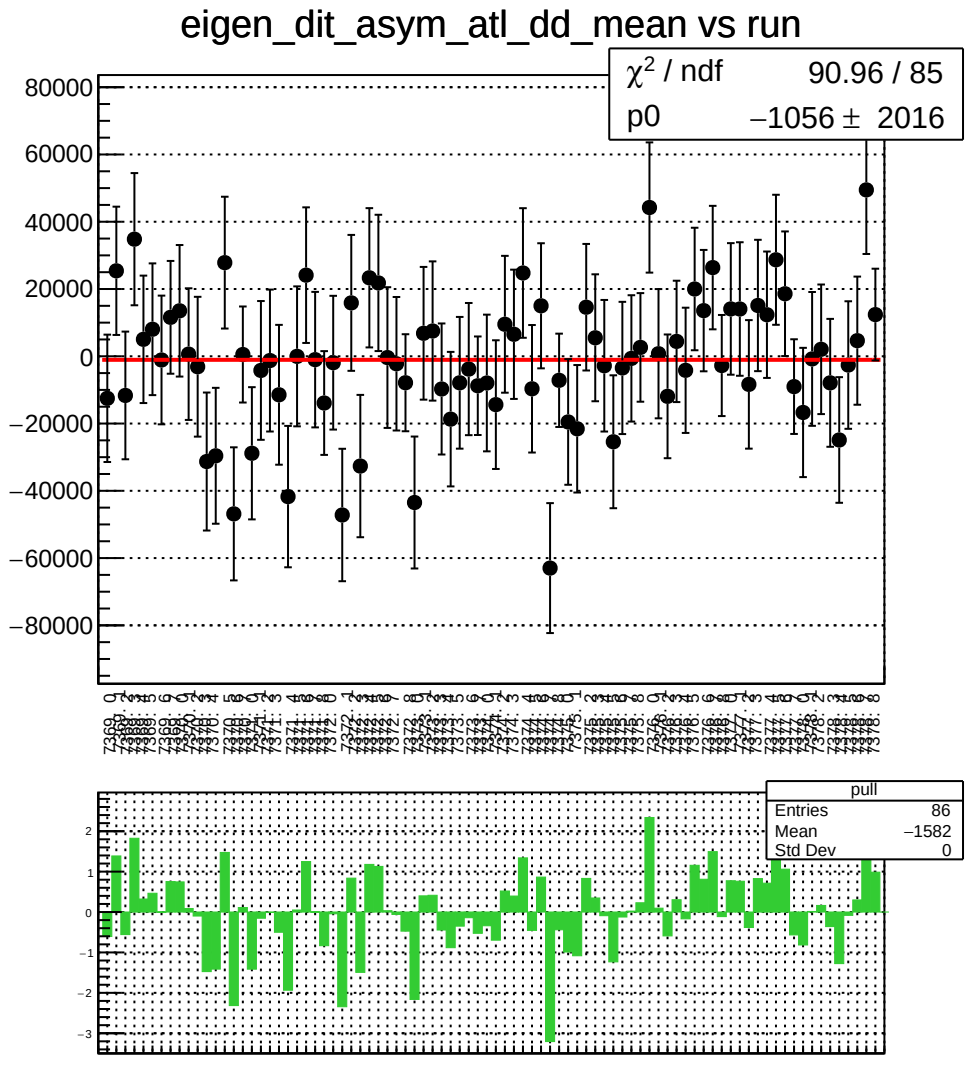

pull1D
Entries 86
Mean −0.002638
Std Dev 1.028

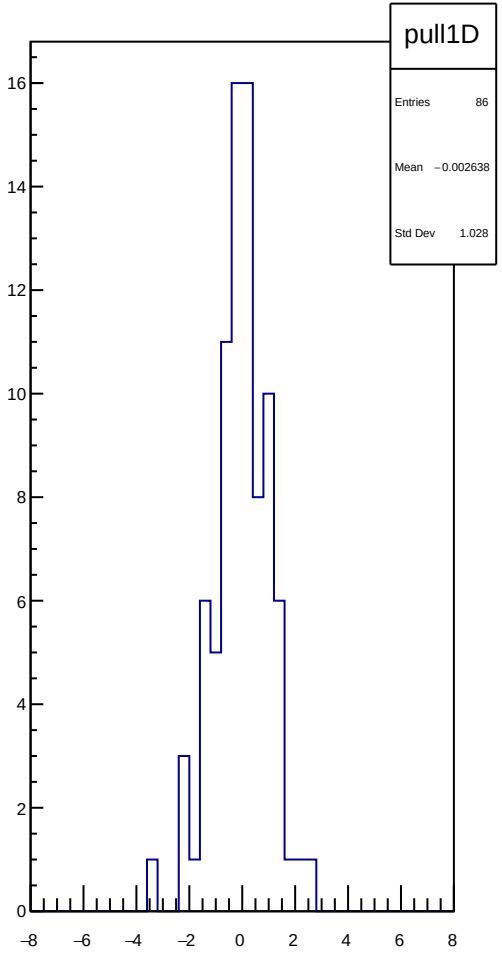

dit_asym_atl_dd_rms vs run
χ² / ndf 2120 / 85
p0 1849 ± 1.425
2050
2000
1950
1900
1850
1800
1750
1700

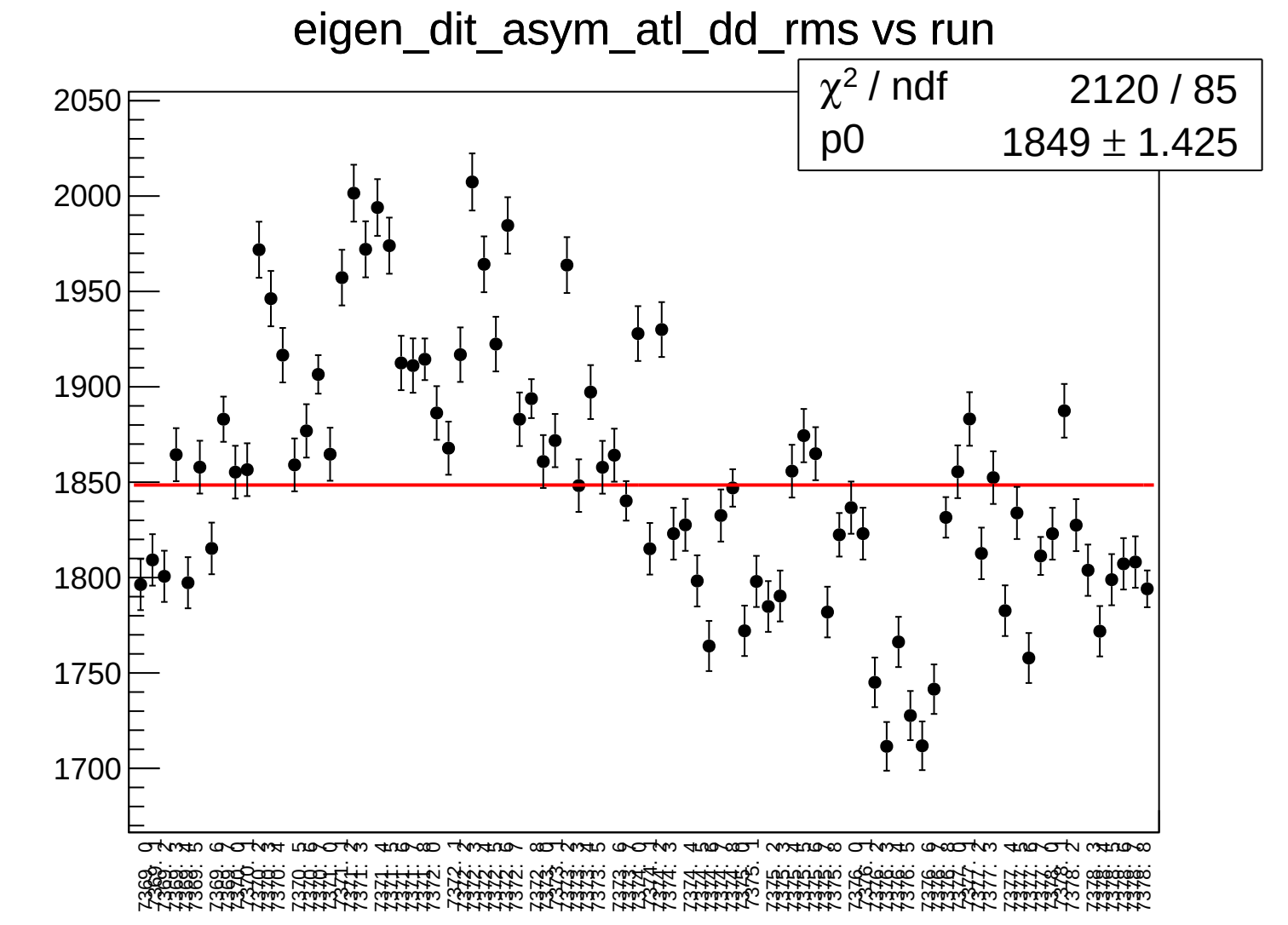

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.26 / 85
p0 5610 ± 5227
pull
Entries 86
Mean −273.4
Std Dev 0

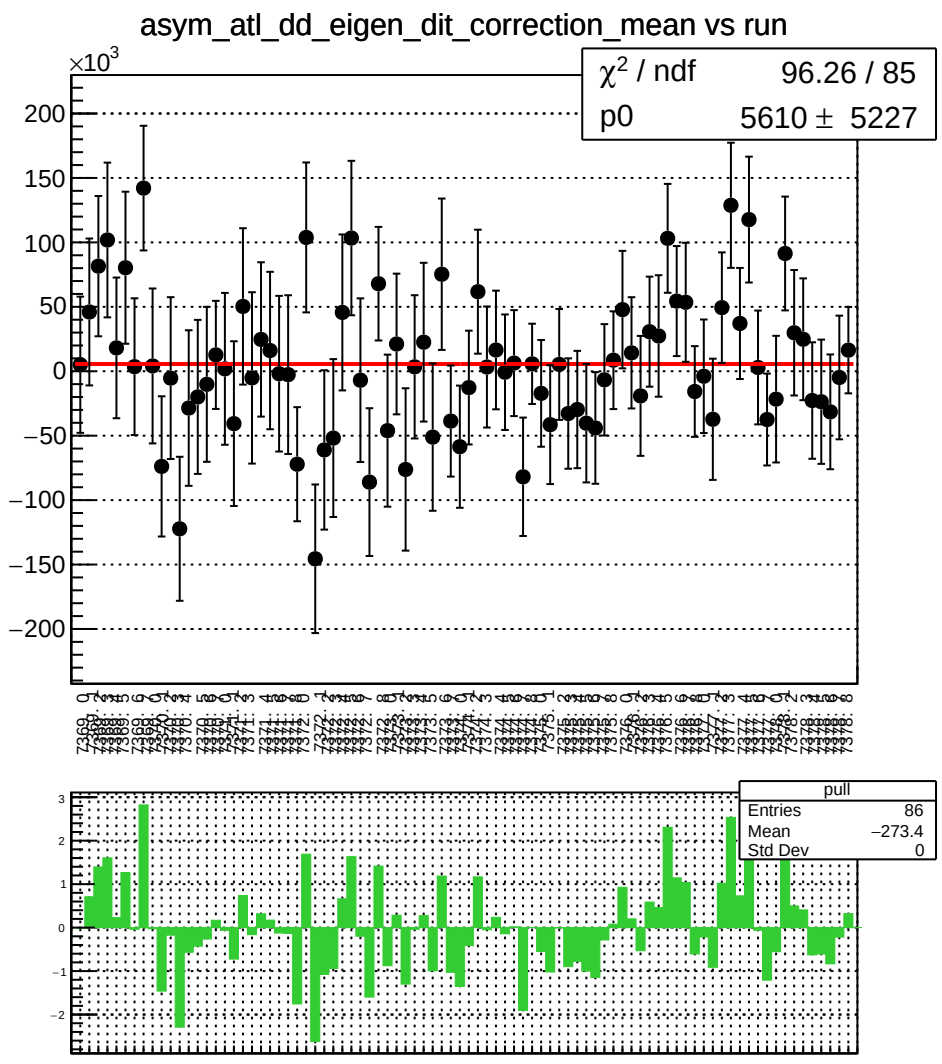

pull1D
Entries 86
Mean −0.003604
Std Dev 1.058

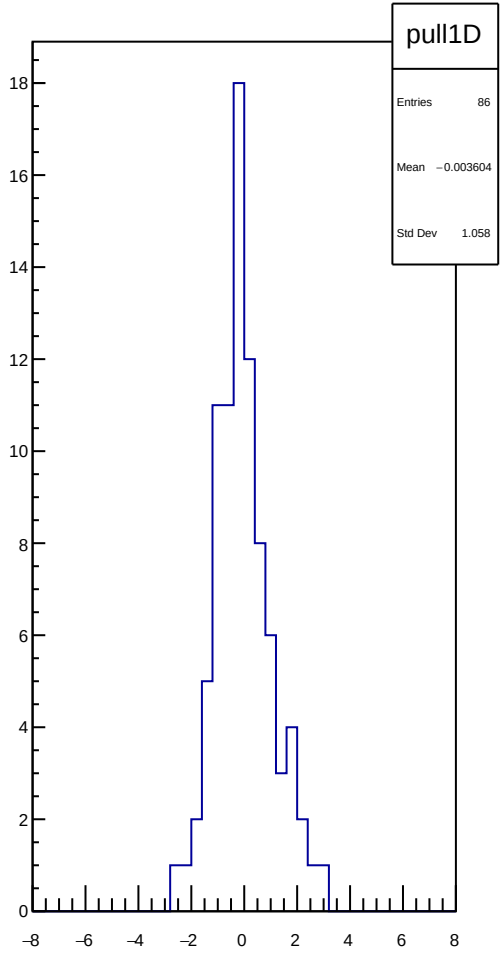

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 3.183e+04 / 85
p0 4751 ± 3.696
6500
6000
5500
5000
4500
4000

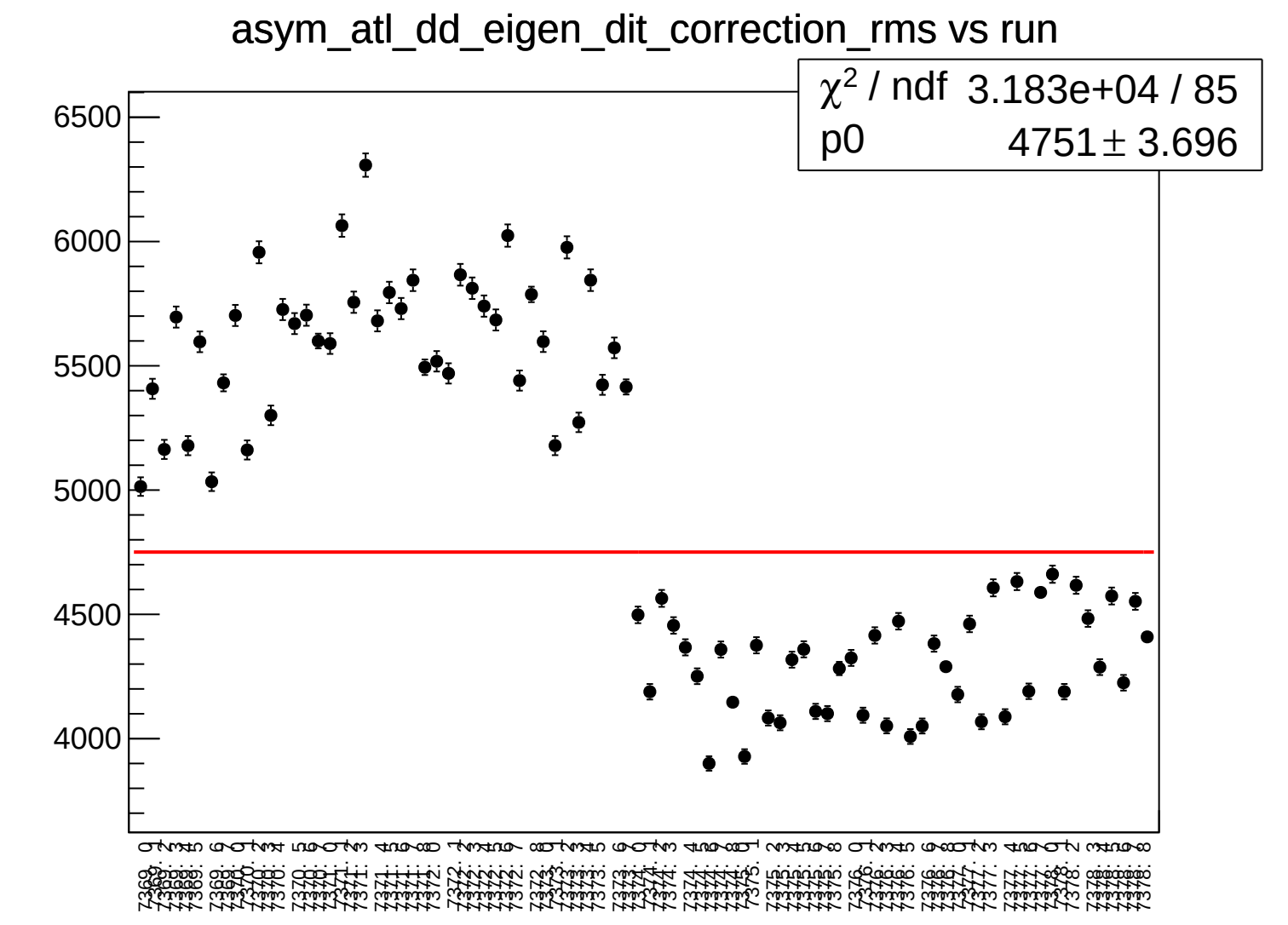

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 90.96 / 85
p0 −1056 ± 2016
pull
Entries 86
Mean −1582
Std Dev 0

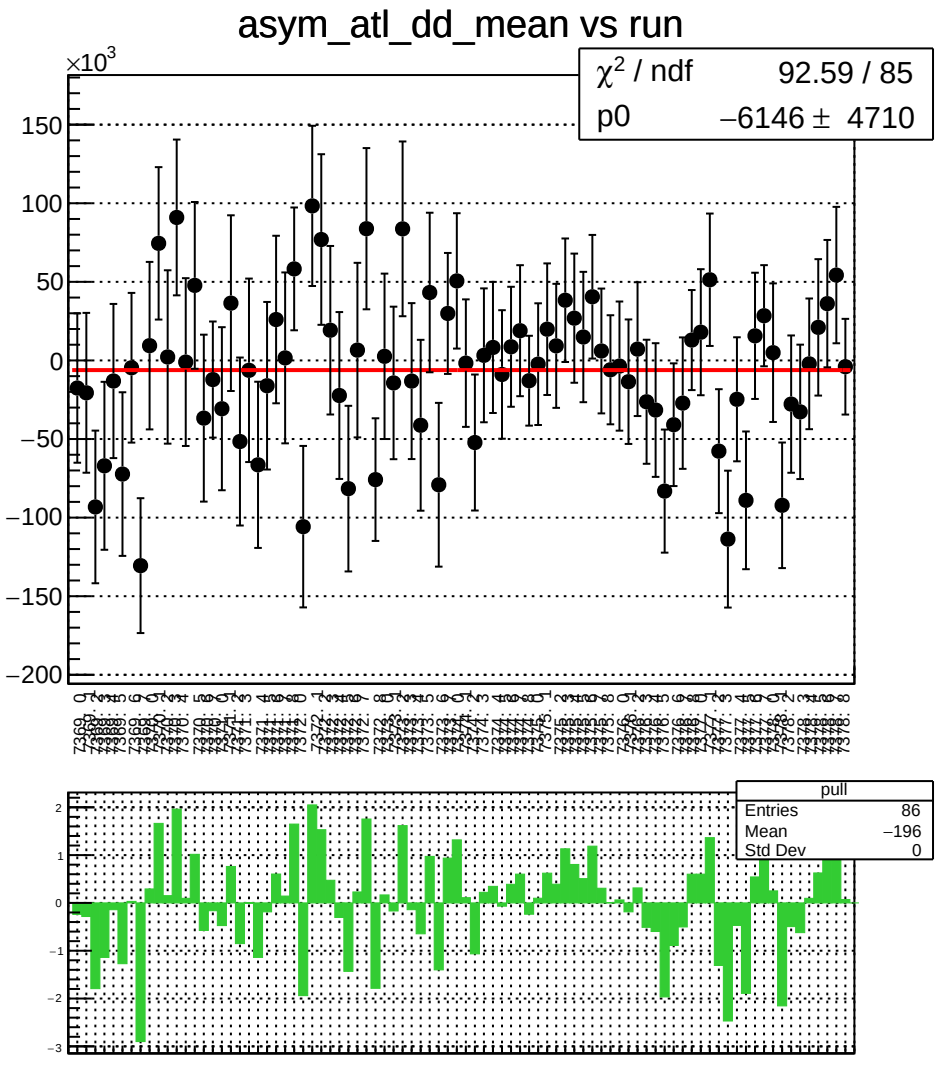

pull1D
Entries 86
Mean −0.002638
Std Dev 1.028

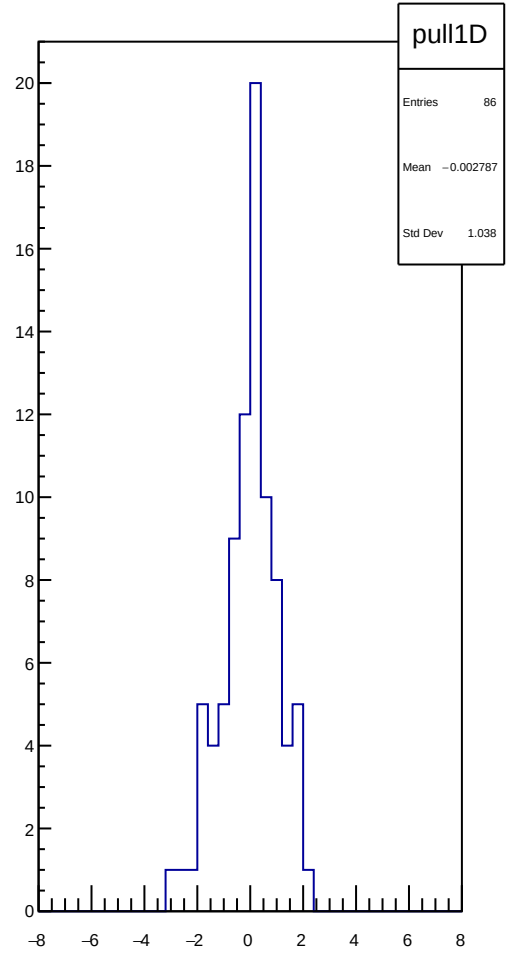

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 2120 / 85
p0 1849 ± 1.425
2050
2000
1950
1900
1850
1800
1750
1700

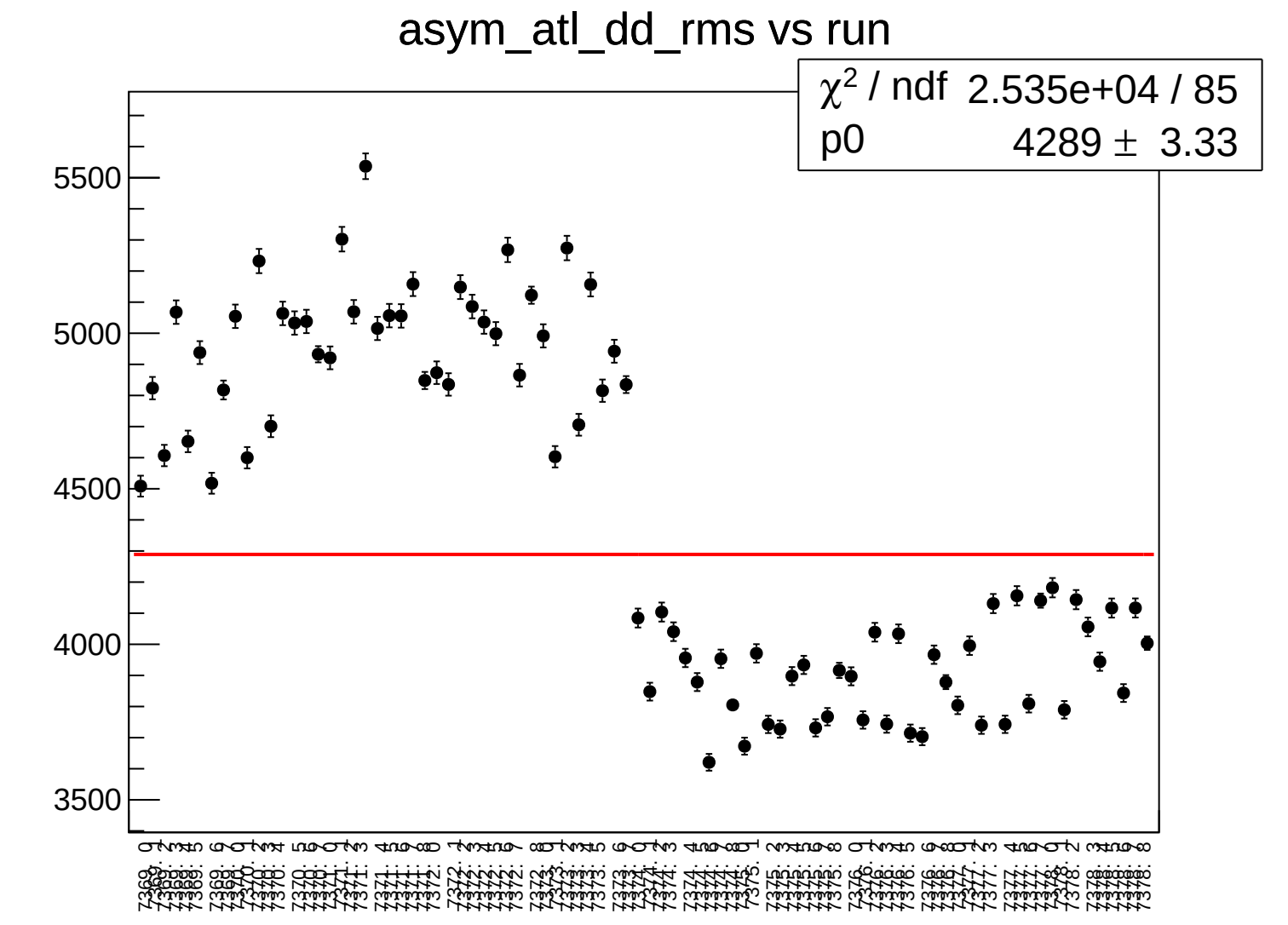

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.26 / 85
p0 5610 ± 5227
pull
Entries 86
Mean −273.4
Std Dev 0

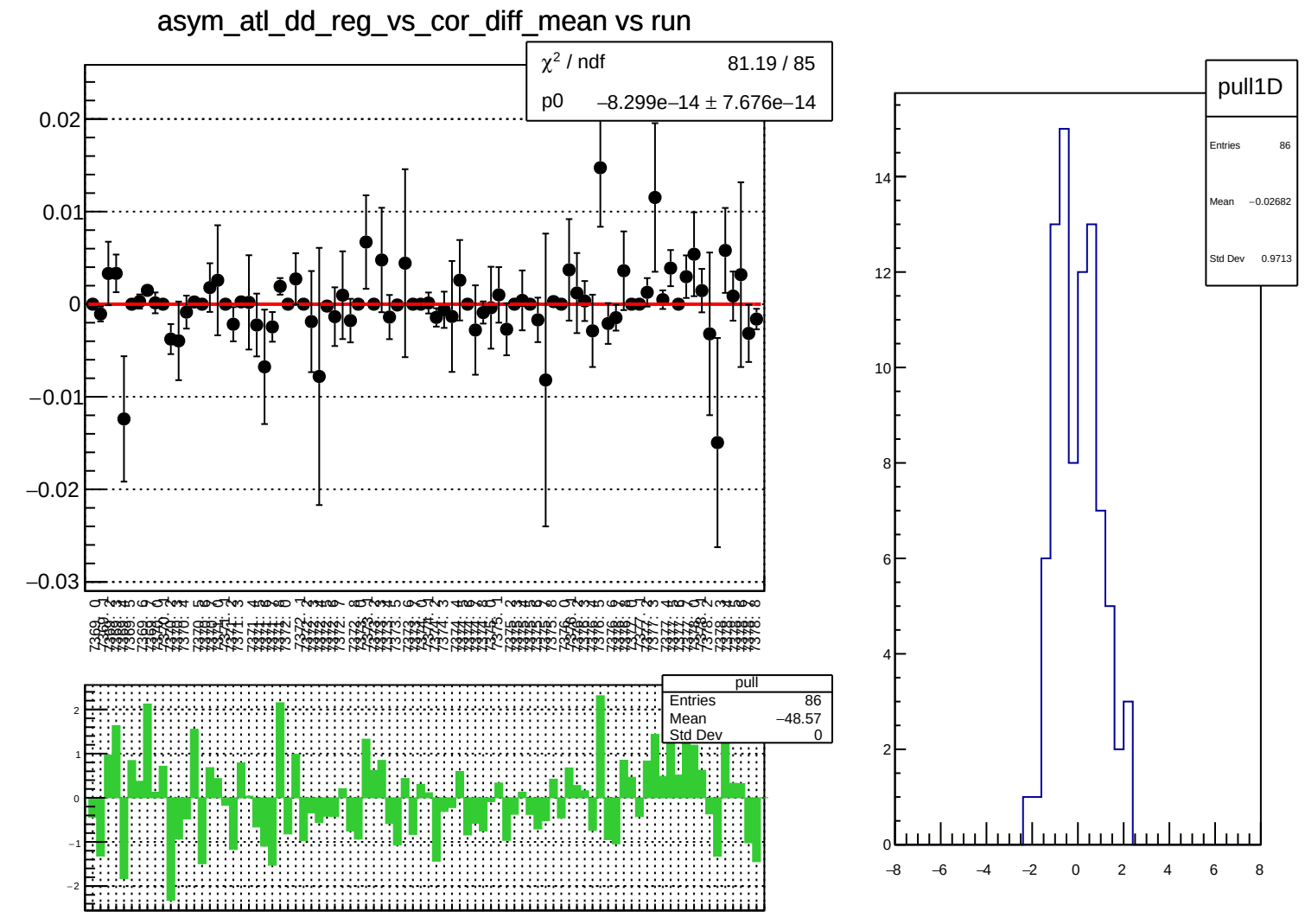

pull1D
Entries 86
Mean −0.003604
Std Dev 1.058

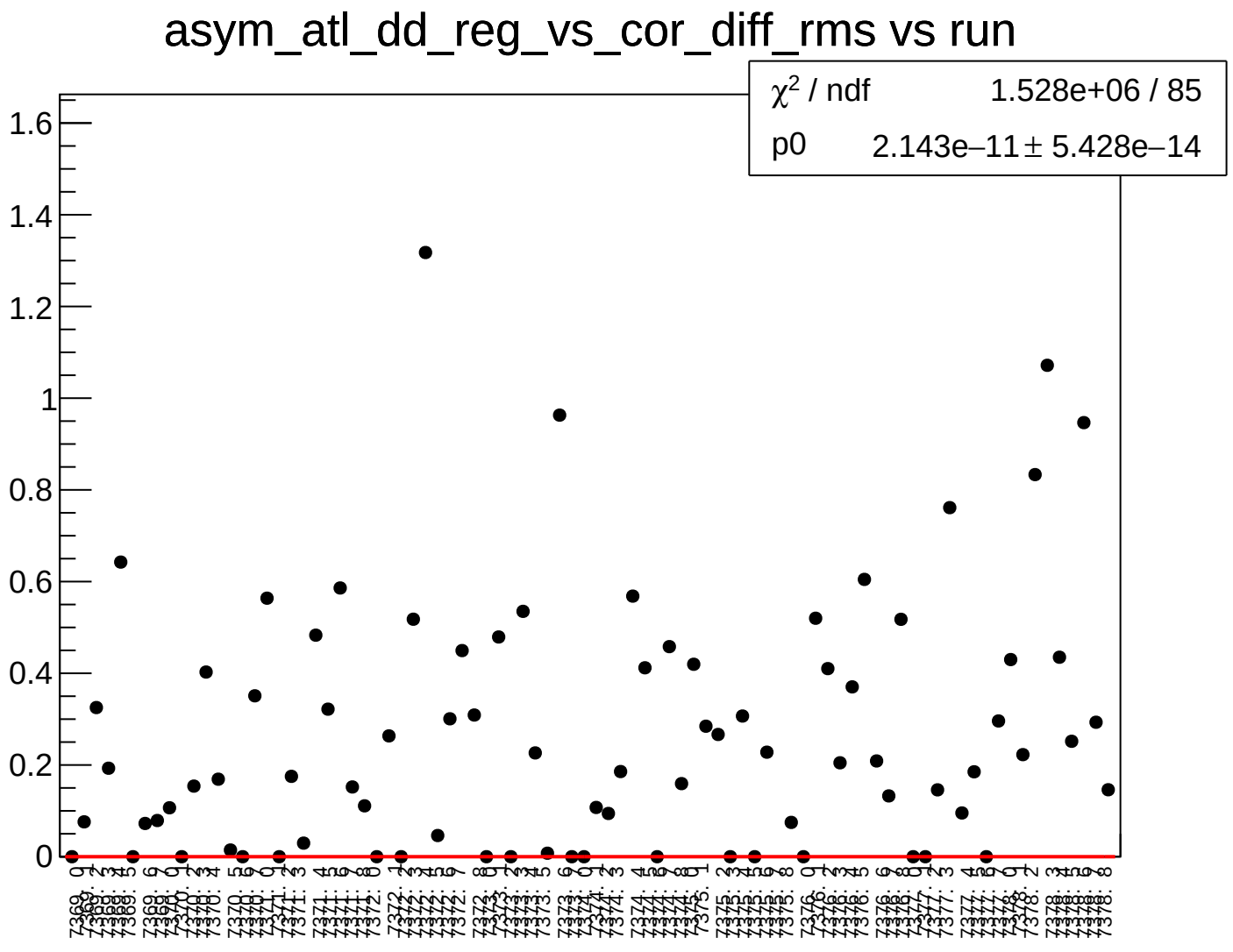

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.183e+04 / 85
p0 4751 ± 3.696
6500
6000
5500
5000
4500
4000

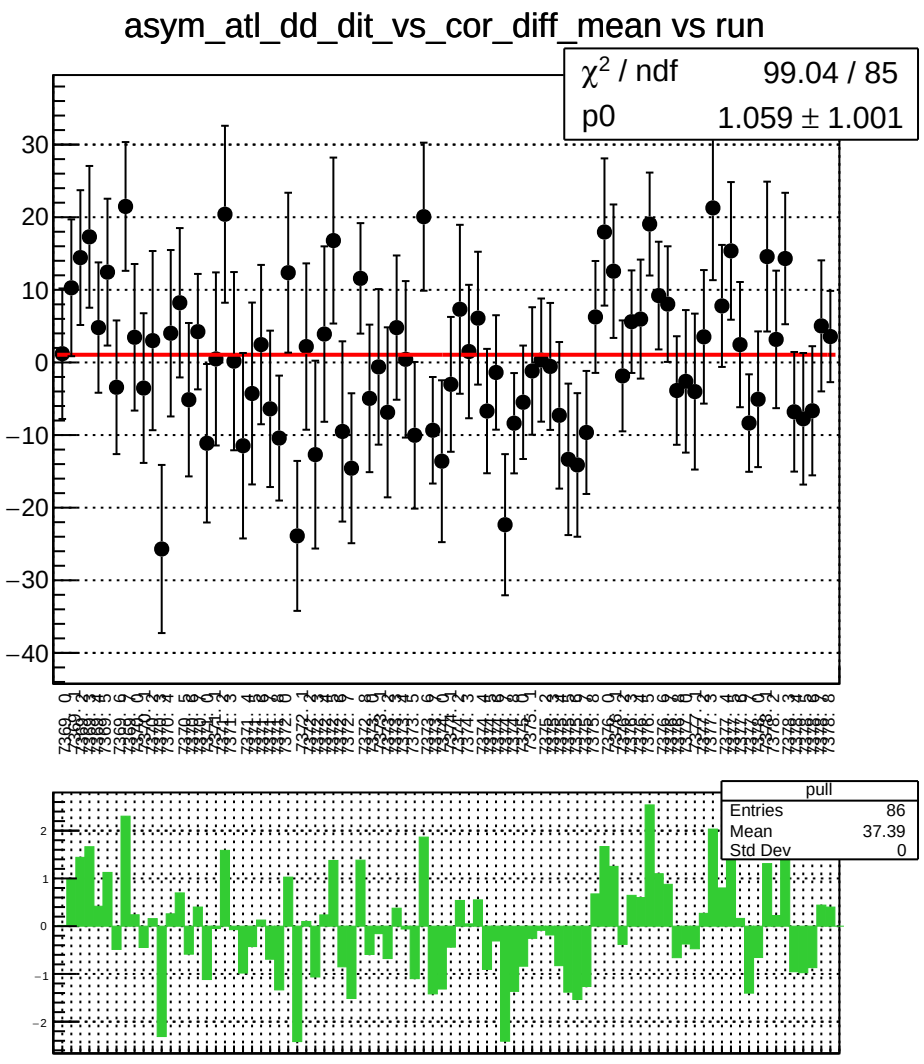

asym_atl_dd_mean vs run
χ² / ndf 92.59 / 85
p0 −6146 ± 4710
×10³
pull
Entries 86
Mean −196
Std Dev 0

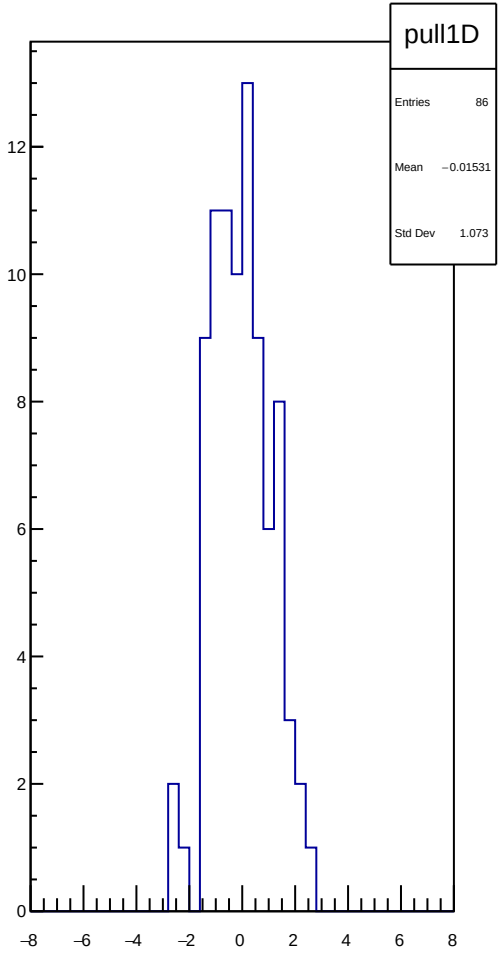

pull1D
Entries 86
Mean −0.002787
Std Dev 1.038

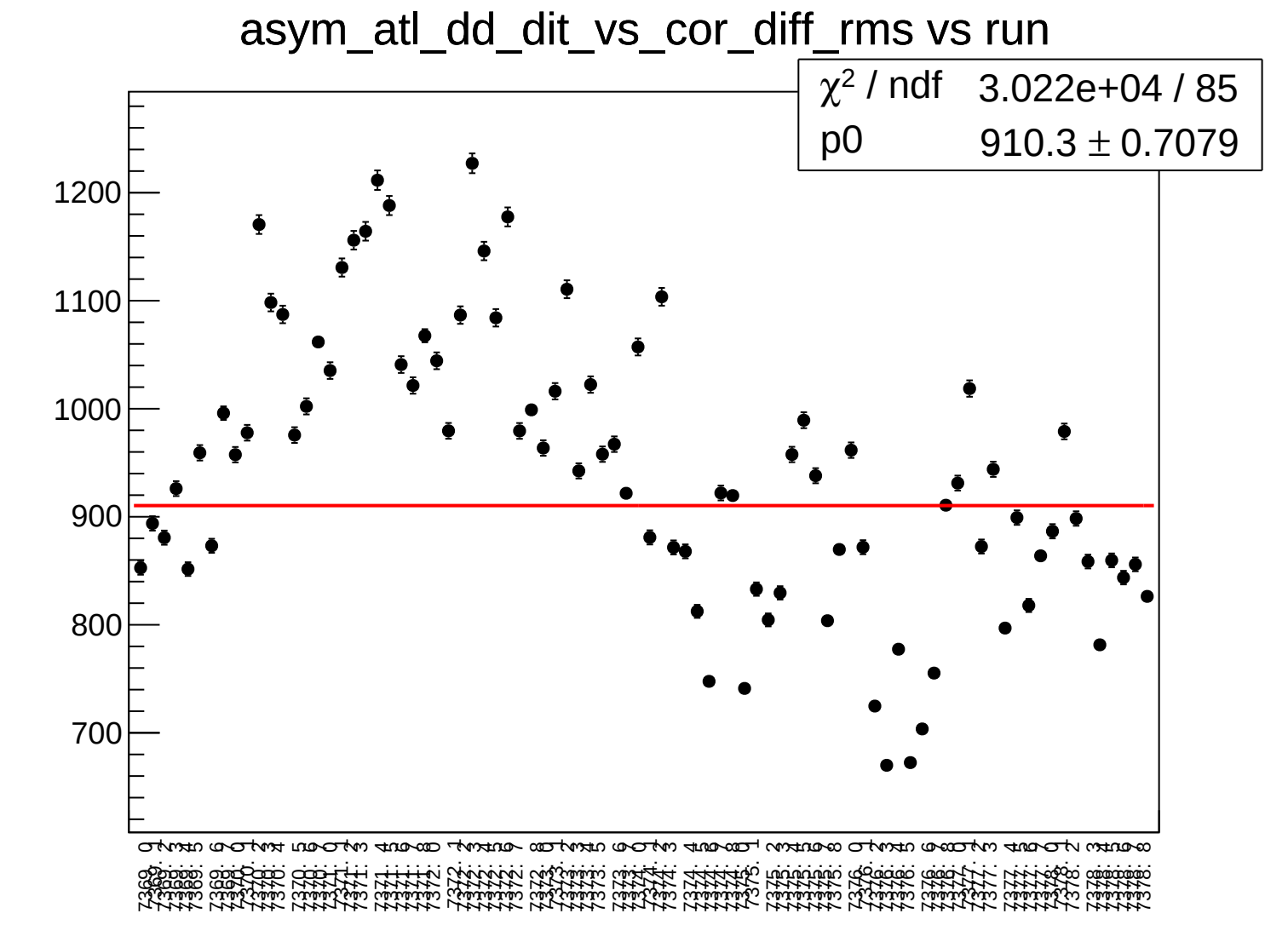

asym_atl_dd_rms vs run
χ² / ndf 2.535e+04 / 85
p0 4289 ± 3.33
5500
5000
4500
4000
3500

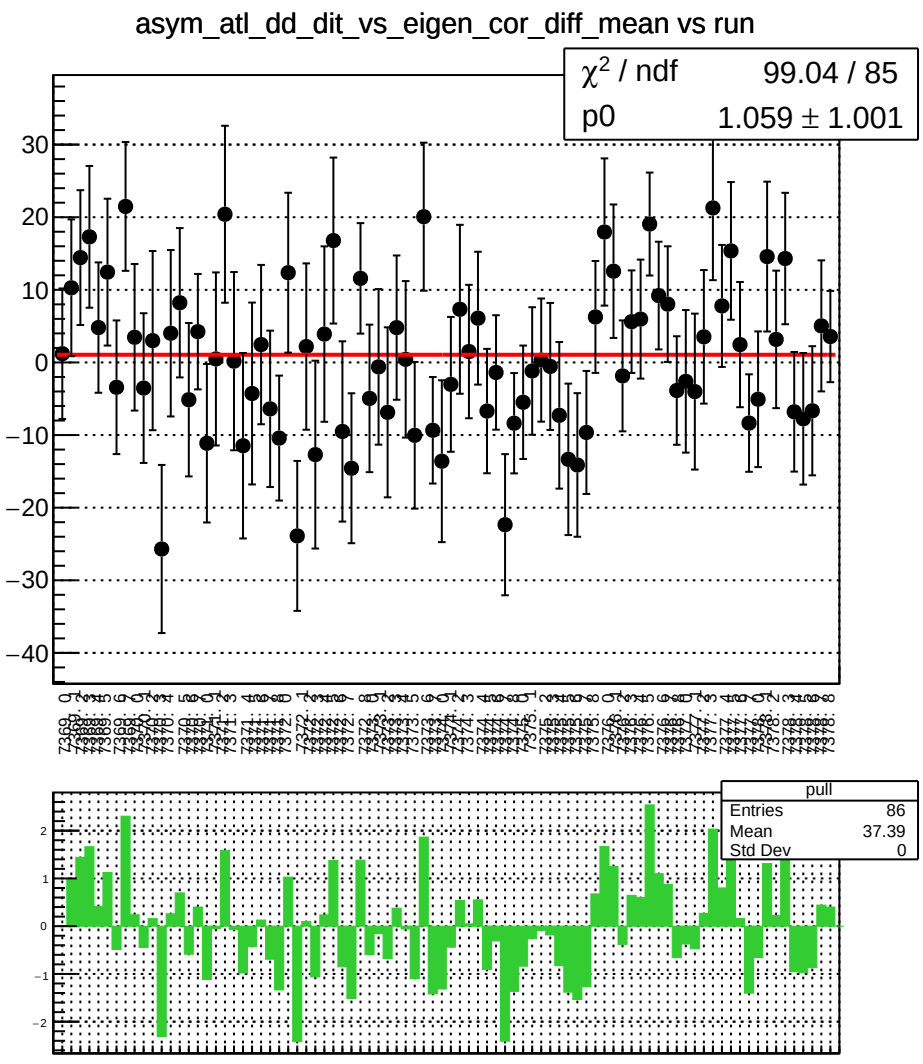

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.19 / 85
p0 −8.299e−14 ± 7.676e−14
pull
Entries 86
Mean −48.57
Std Dev 0
pull1D
Entries 86
Mean −0.02682
Std Dev 0.9713

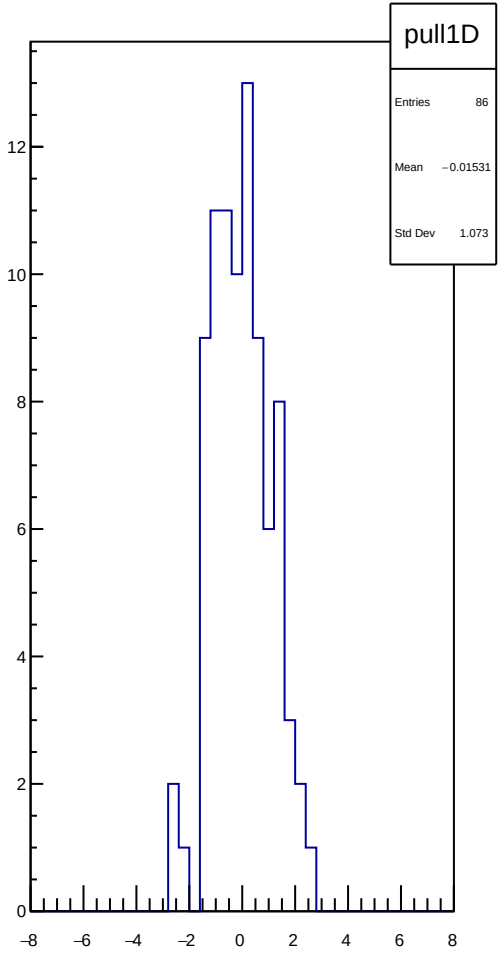

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.528e+06 / 85
p0 2.143e−11 ± 5.428e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

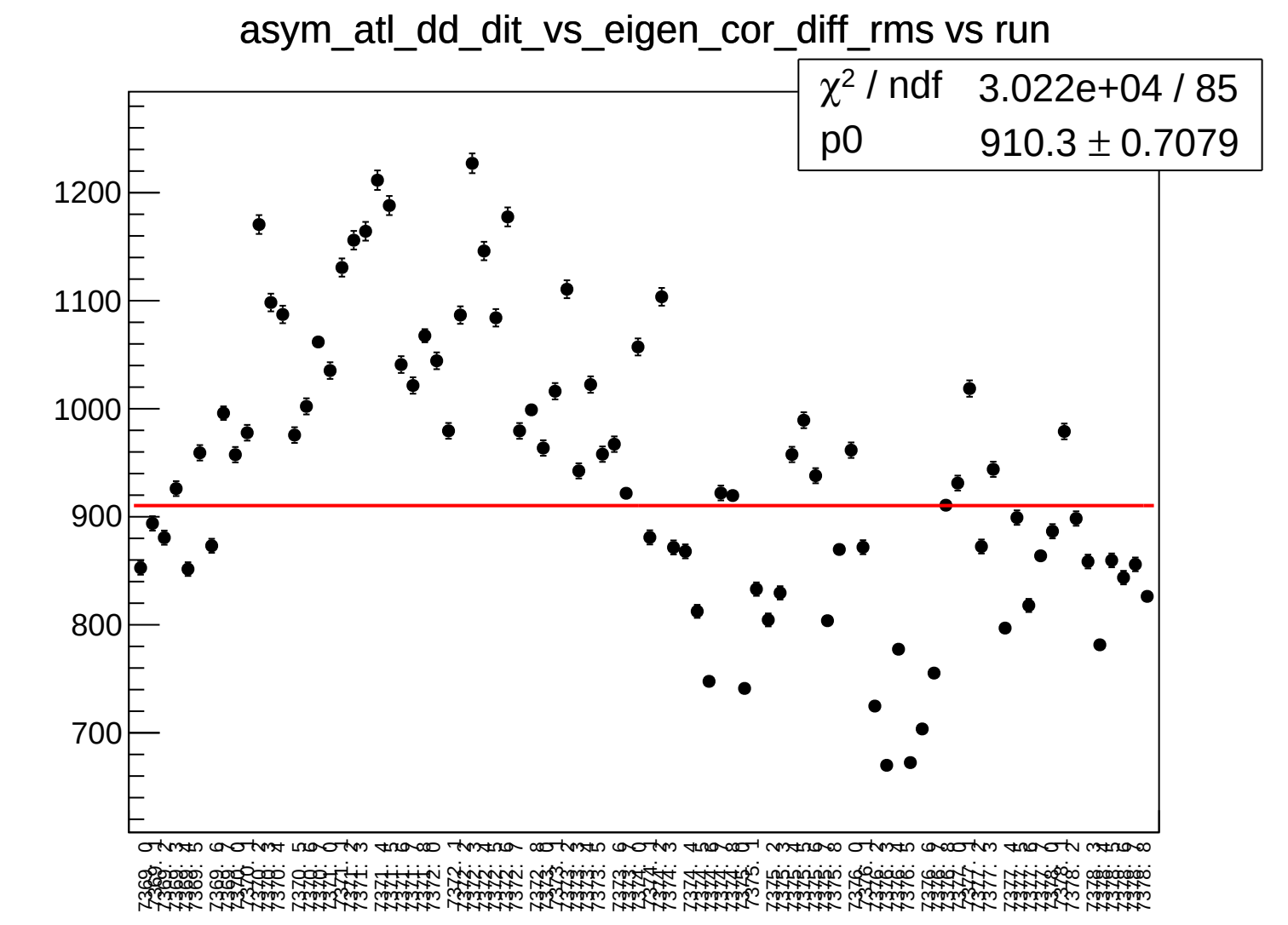

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.04 / 85
p0 1.059 ± 1.001
pull
Entries 86
Mean 37.39
Std Dev 0

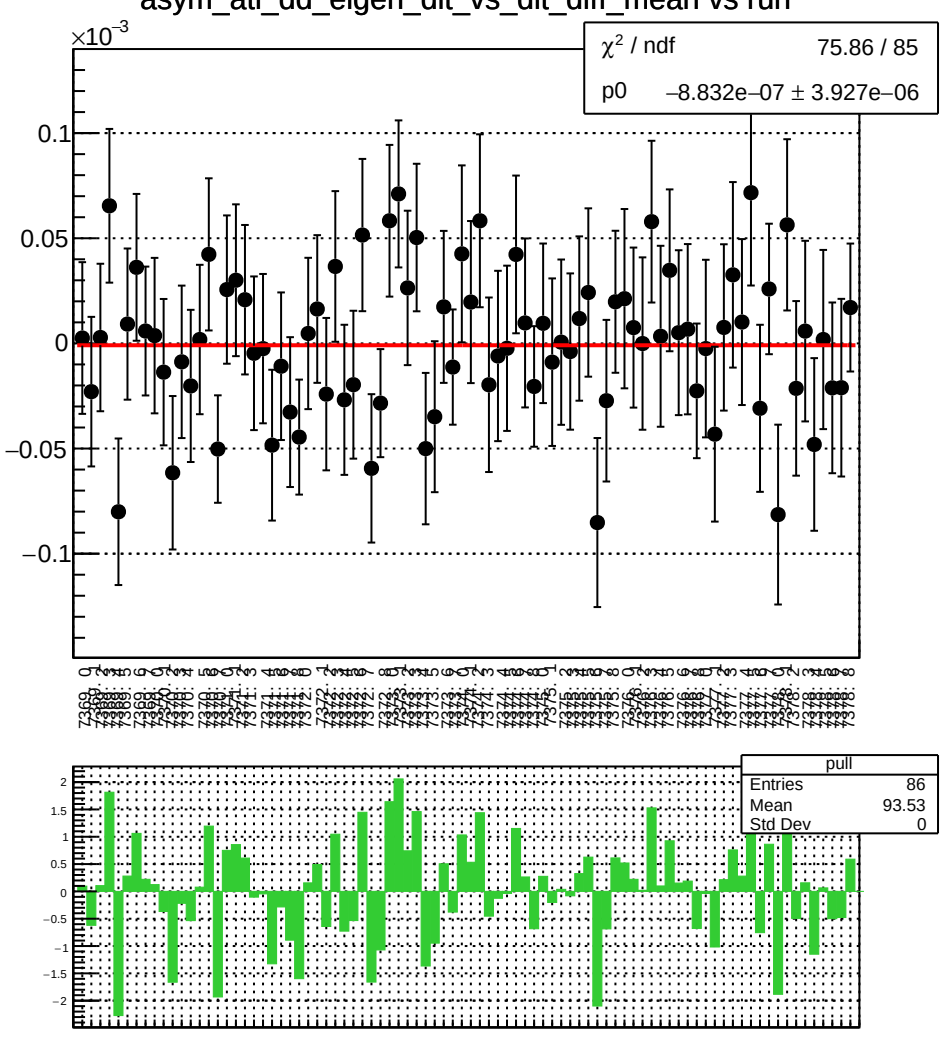

pull1D
Entries 86
Mean −0.01531
Std Dev 1.073

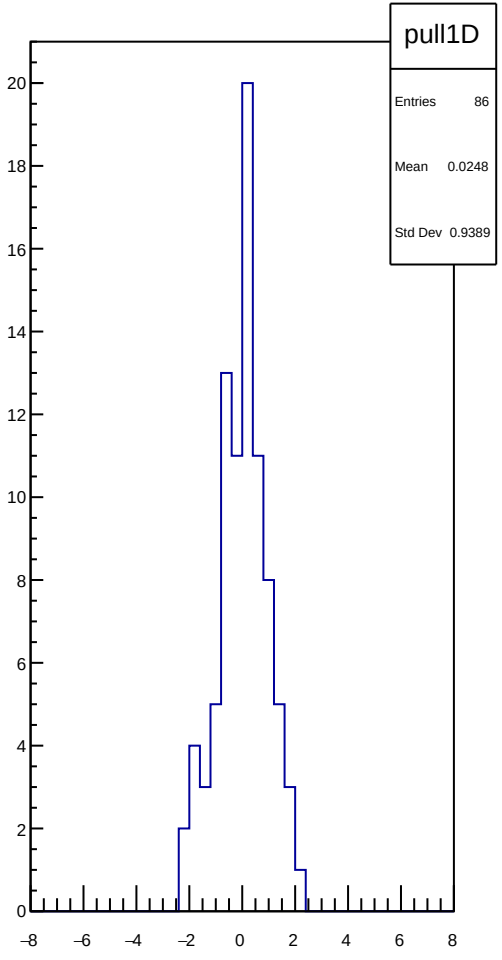

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.022e+04 / 85
p0 910.3 ± 0.7079
1200
1100
1000
900
800
700

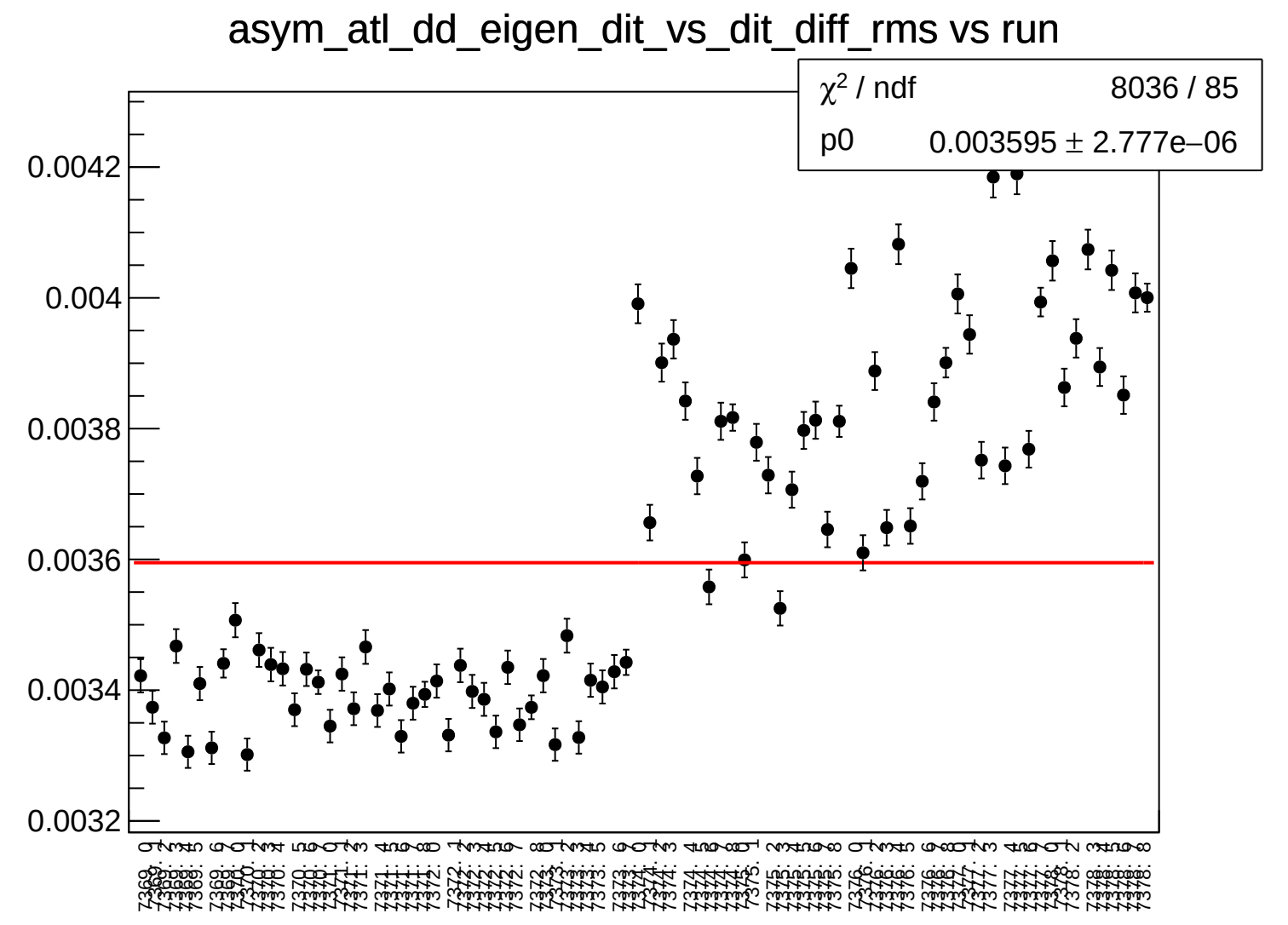

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.04 / 85
p0 1.059 ± 1.001
pull
Entries 86
Mean 37.39
Std Dev 0

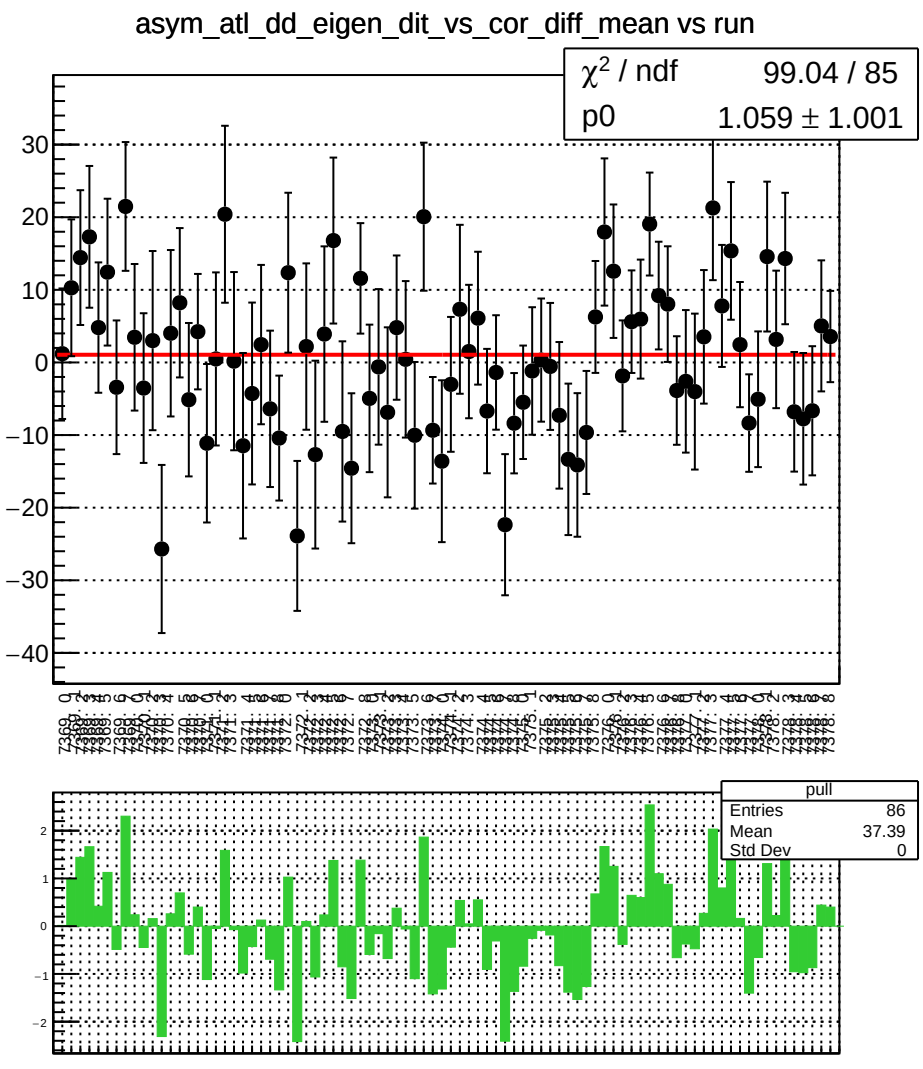

pull1D
Entries 86
Mean −0.01531
Std Dev 1.073

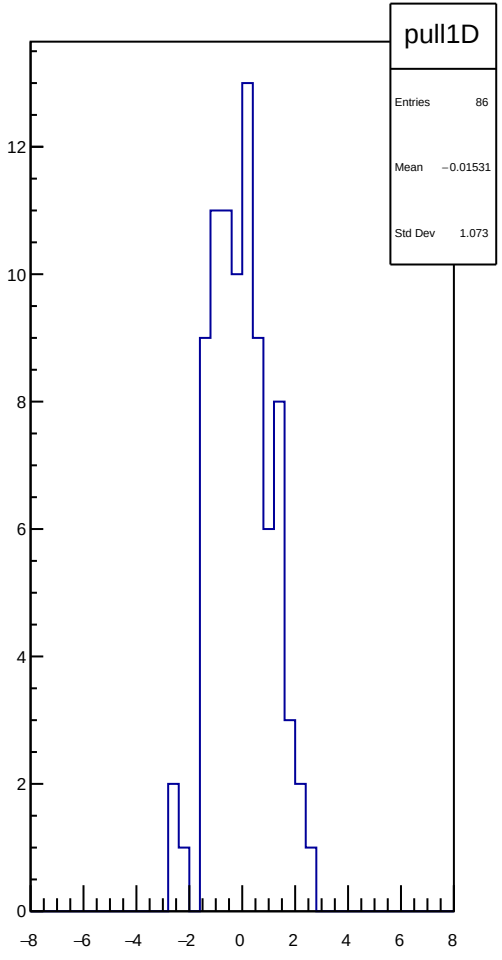

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.022e+04 / 85
p0 910.3 ± 0.7079
1200
1100
1000
900
800
700

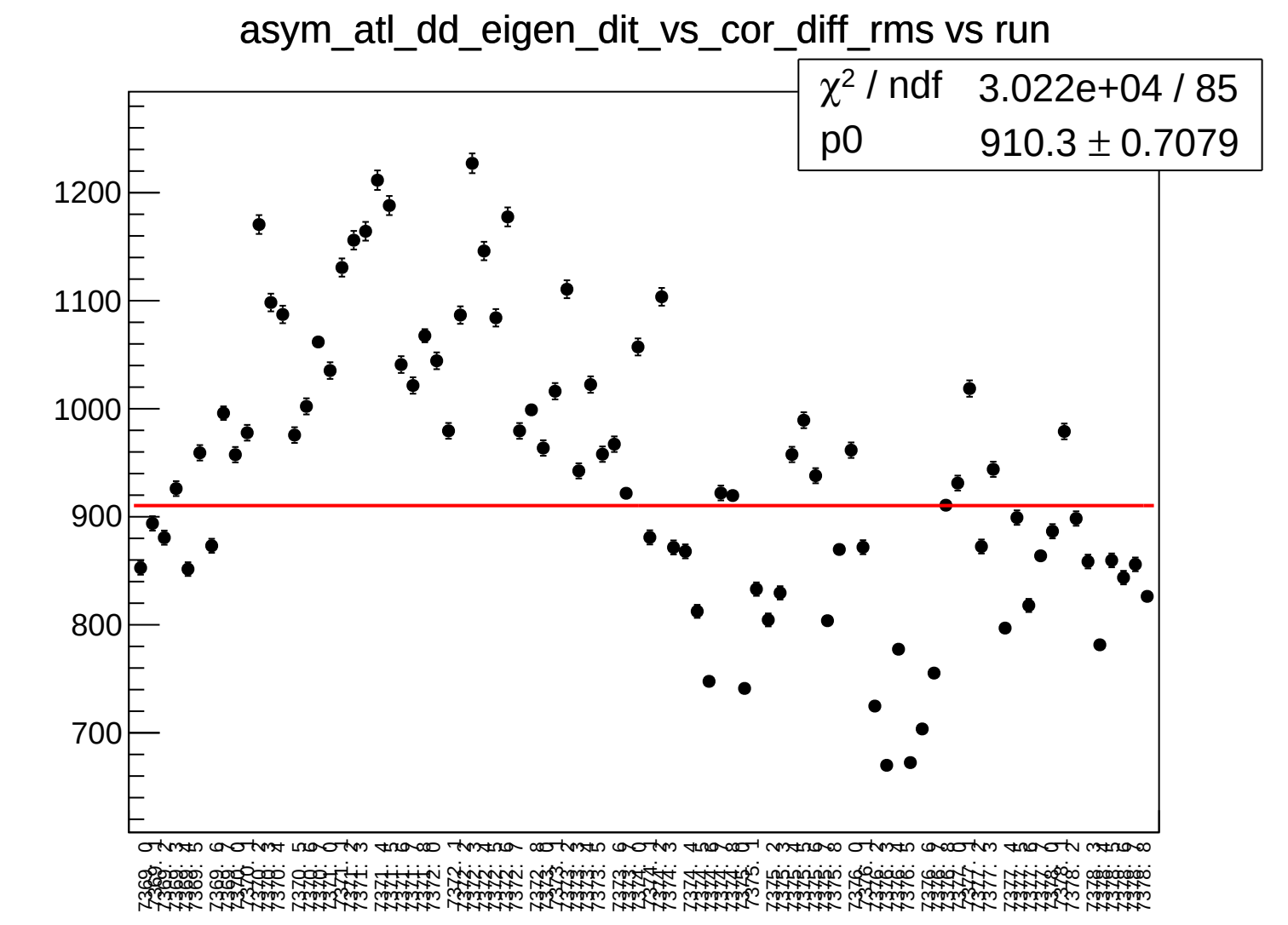

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.86 / 85
p0 −8.832e−07 ± 3.927e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 93.53
Std Dev 0

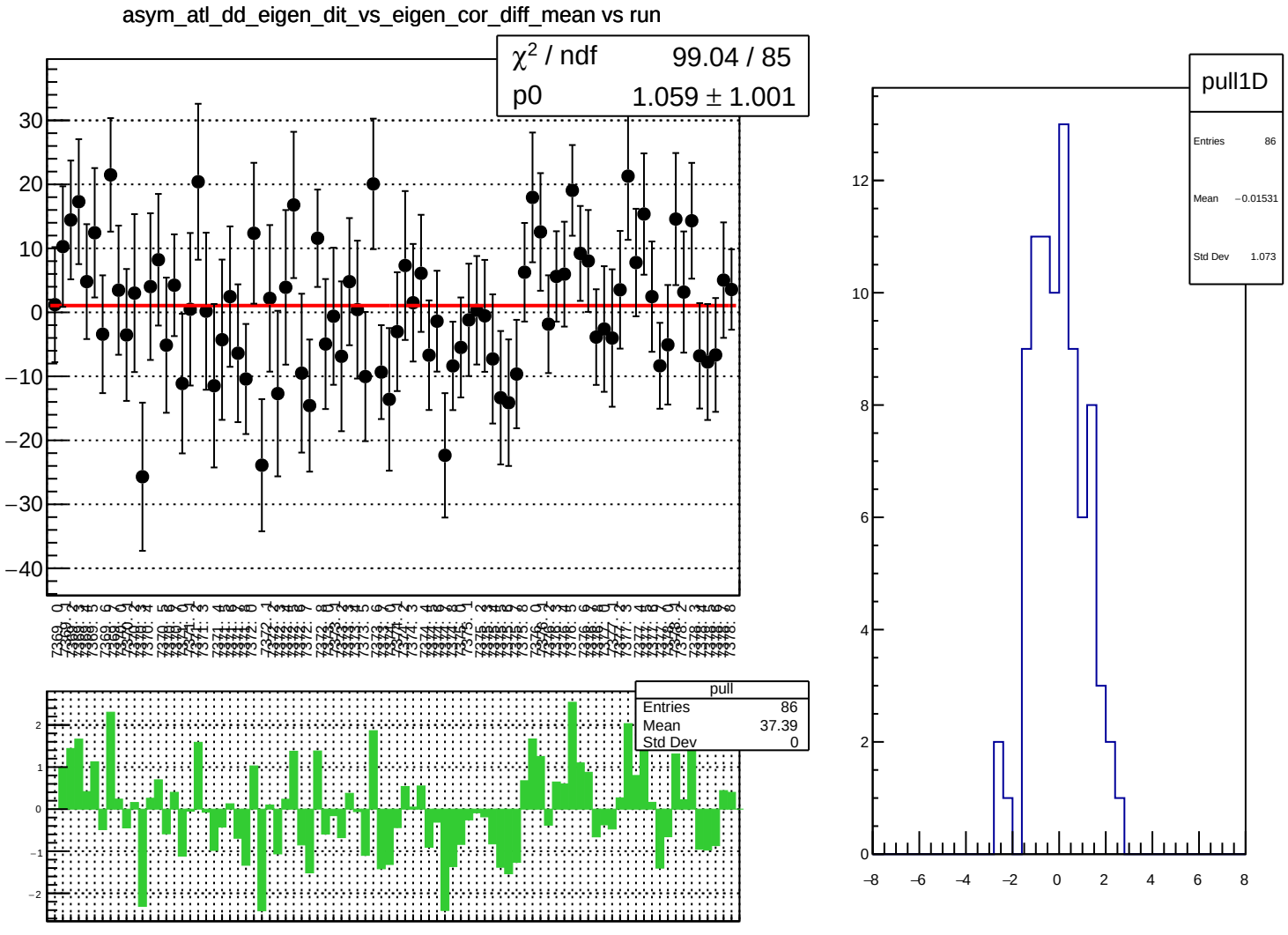

pull1D
Entries 86
Mean 0.0248
Std Dev 0.9389

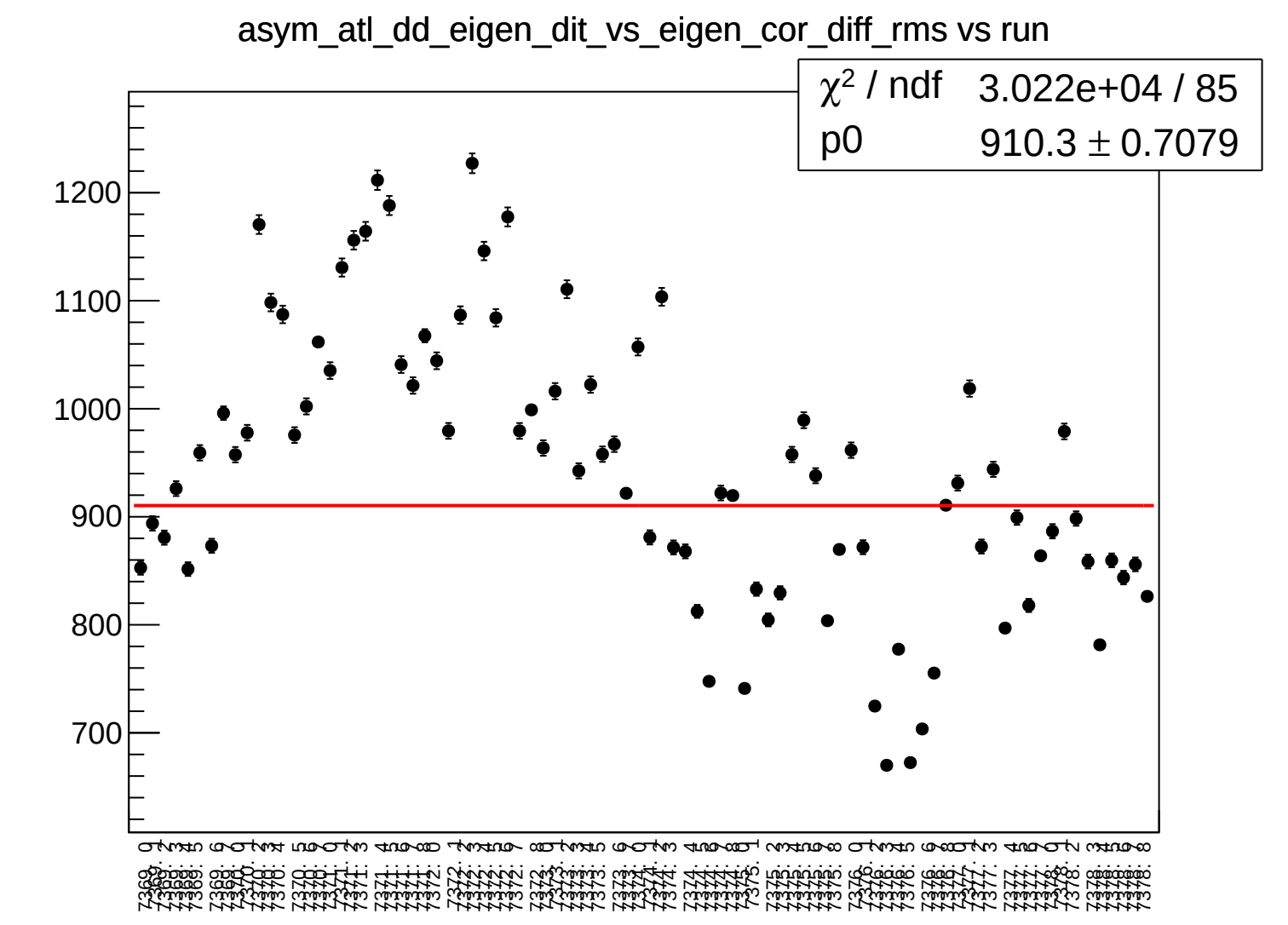

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8036 / 85
p0 0.003595 ± 2.777e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

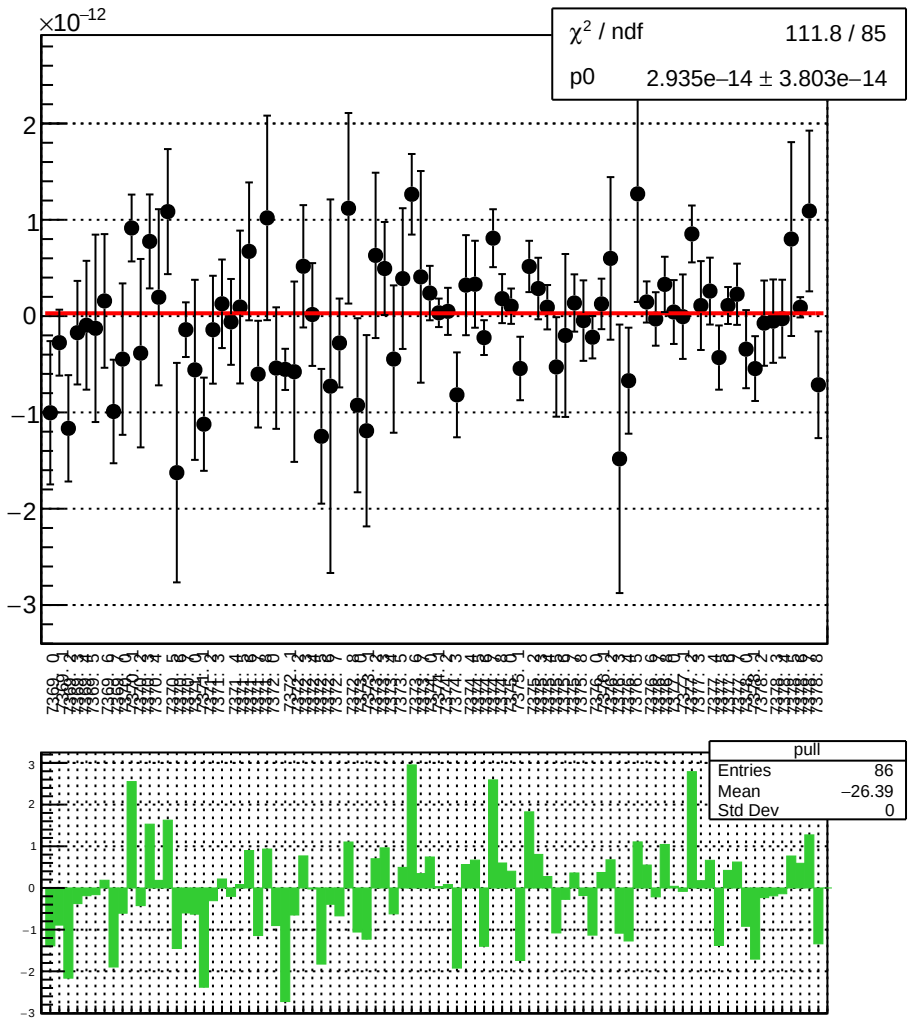

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.04 / 85
p0 1.059 ± 1.001
pull
Entries 86
Mean 37.39
Std Dev 0

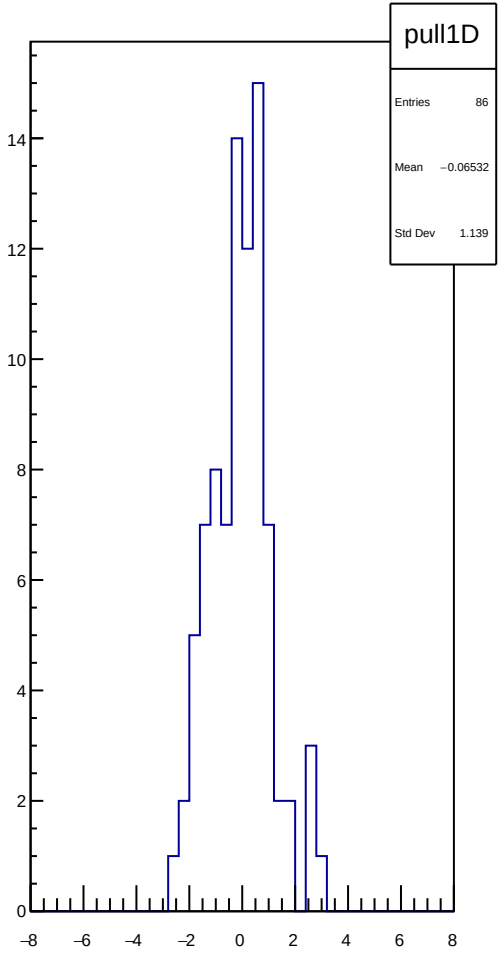

pull1D
Entries 86
Mean −0.01531
Std Dev 1.073

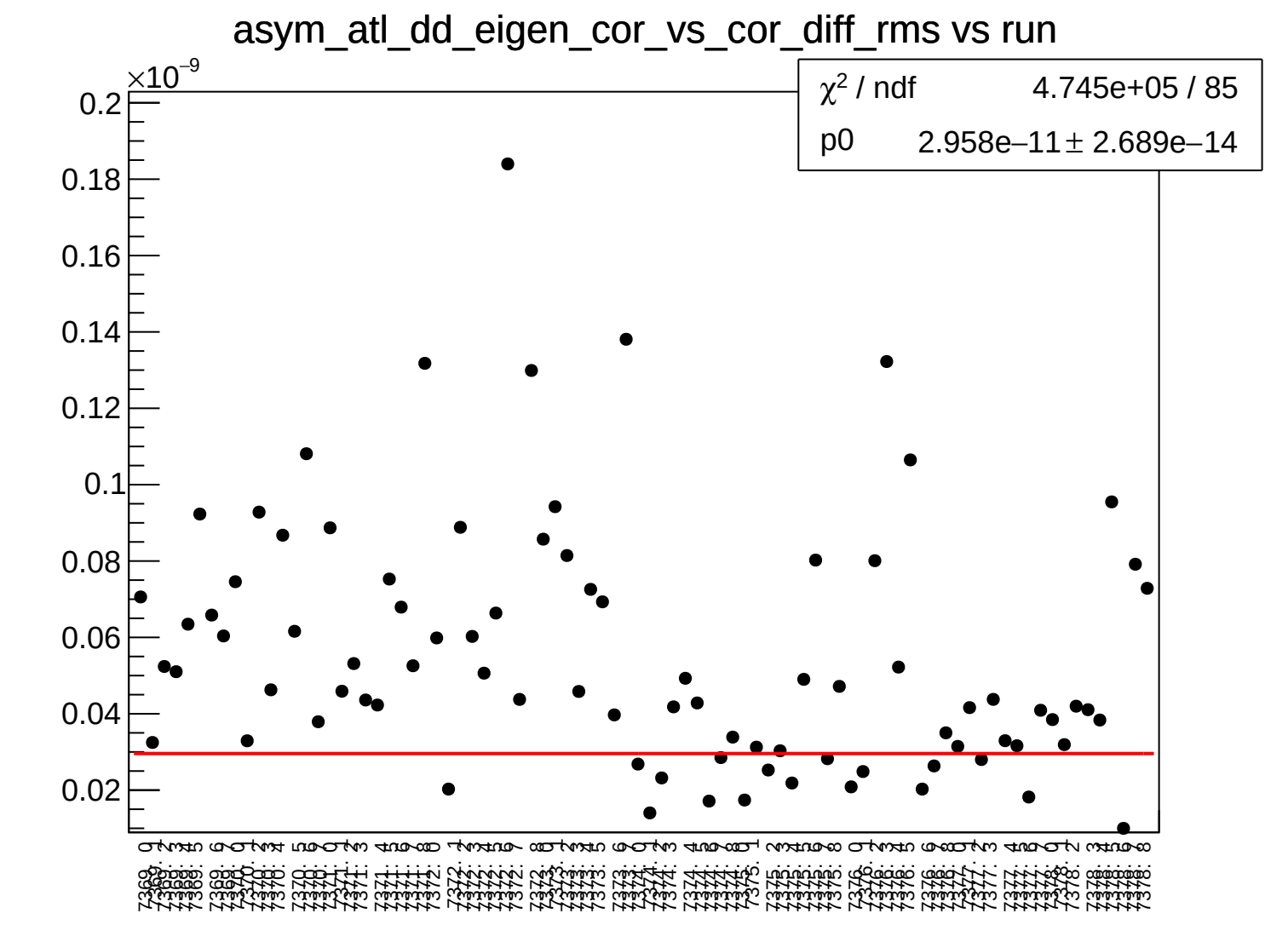

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.022e+04 / 85
p0 910.3 ± 0.7079
1200
1100
1000
900
800
700

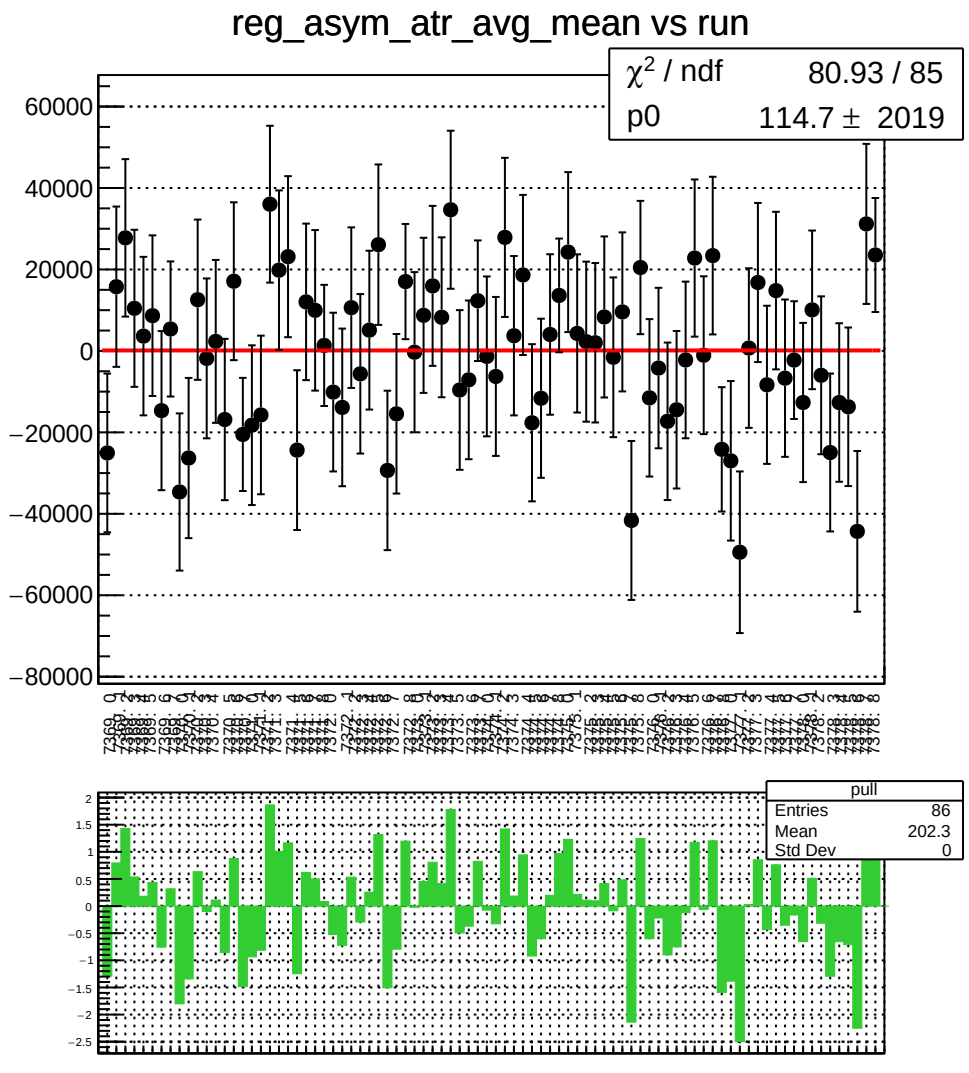

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.04 / 85
p0 1.059 ± 1.001
pull
Entries 86
Mean 37.39
Std Dev 0
pull1D
Entries 86
Mean −0.01531
Std Dev 1.073

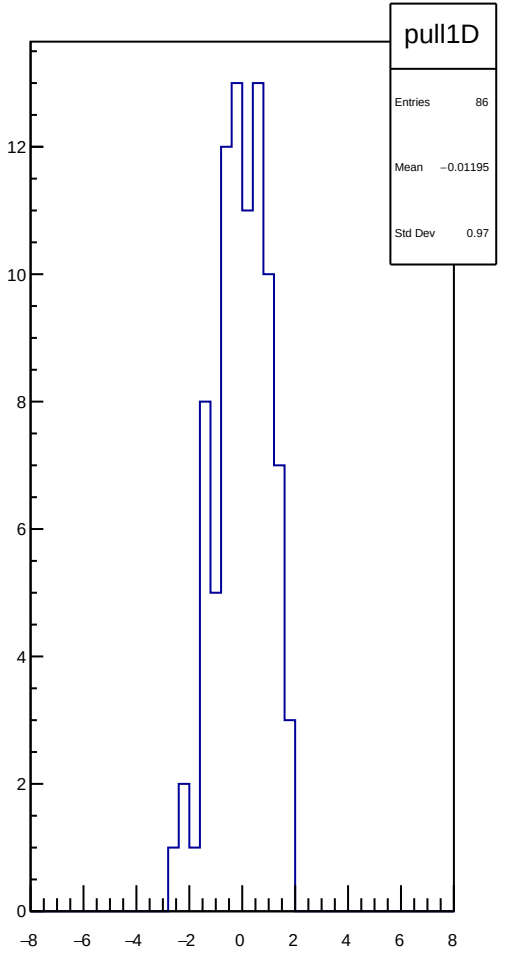

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.022e+04 / 85
p0 910.3 ± 0.7079
1200
1100
1000
900
800
700

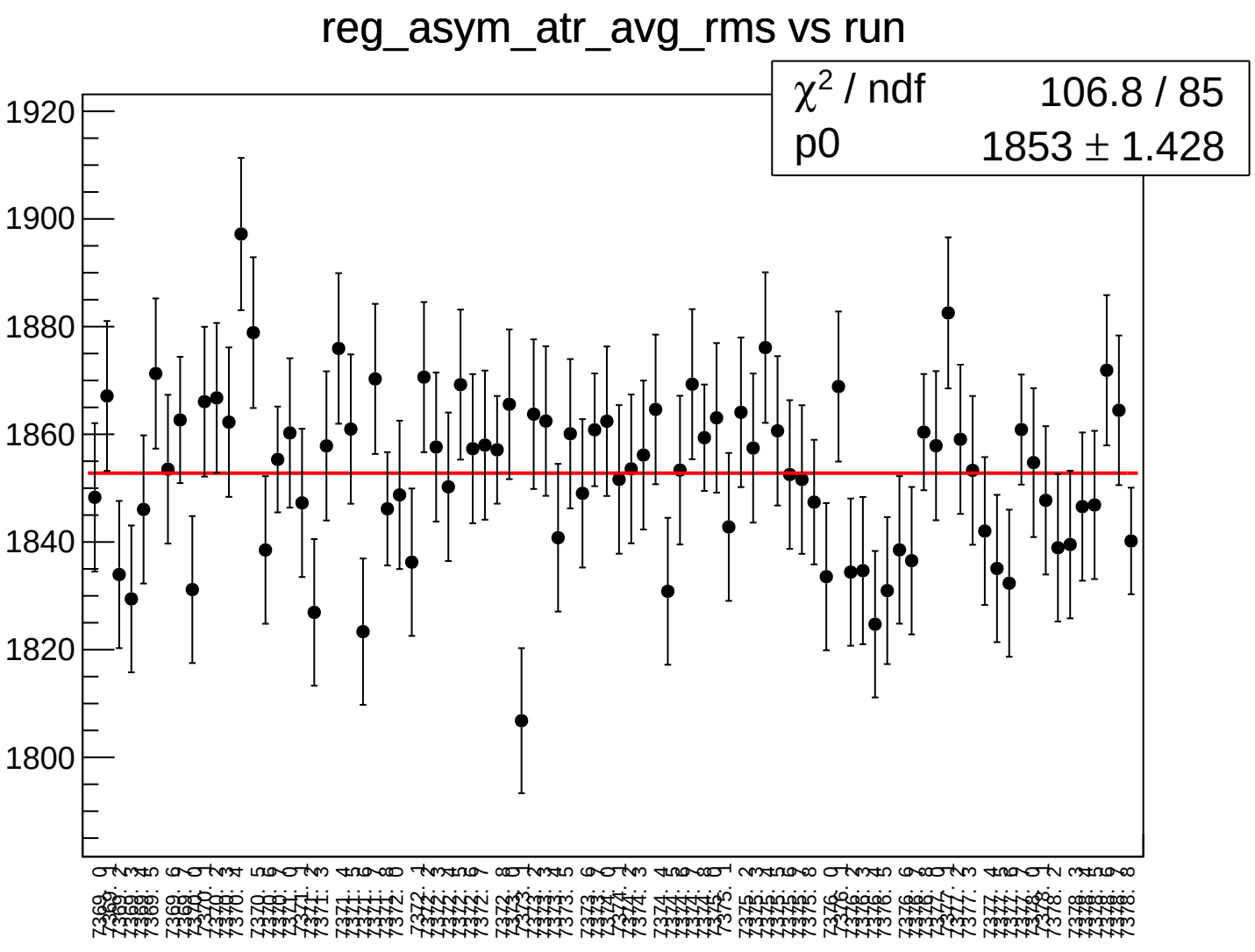

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.8 / 85
p0 2.935e−14 ± 3.803e−14
pull
Entries 86
Mean −26.39
Std Dev 0

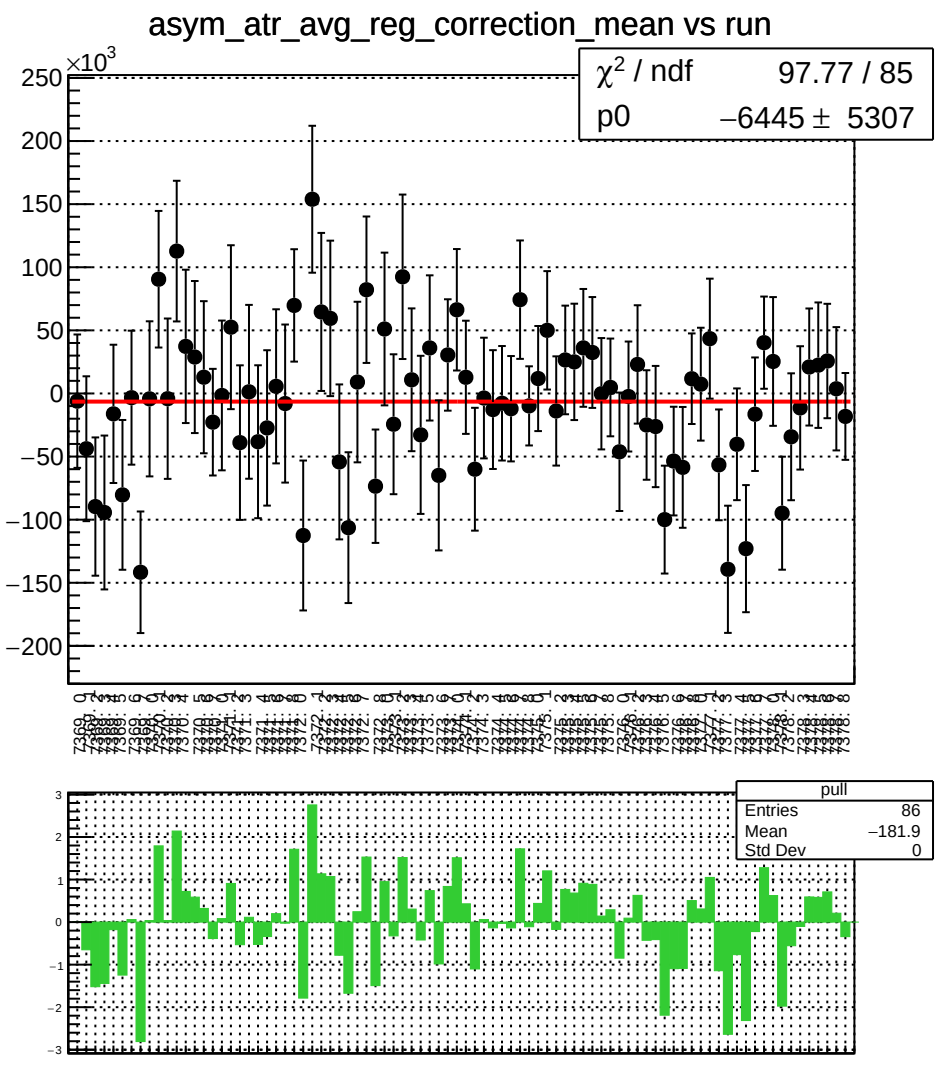

pull1D
Entries 86
Mean −0.06532
Std Dev 1.139

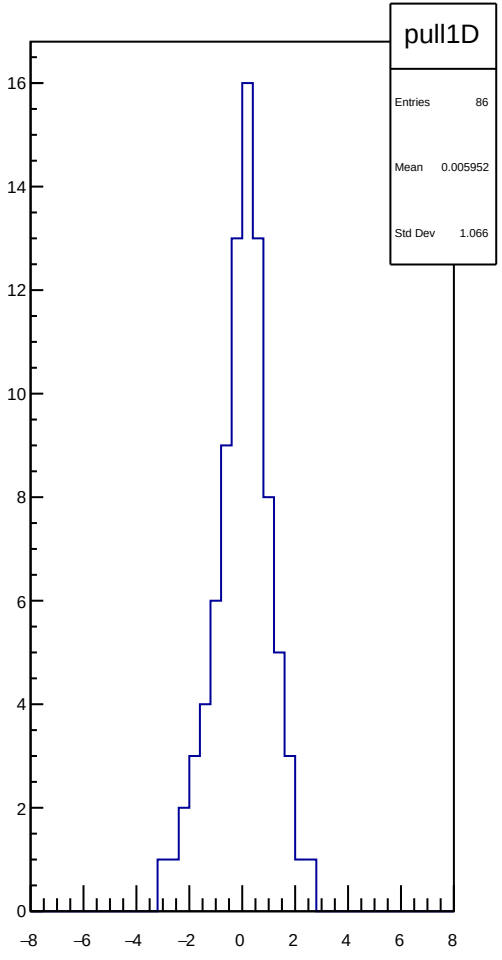

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.745e+05 / 85
p0 2.958e−11 ± 2.689e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

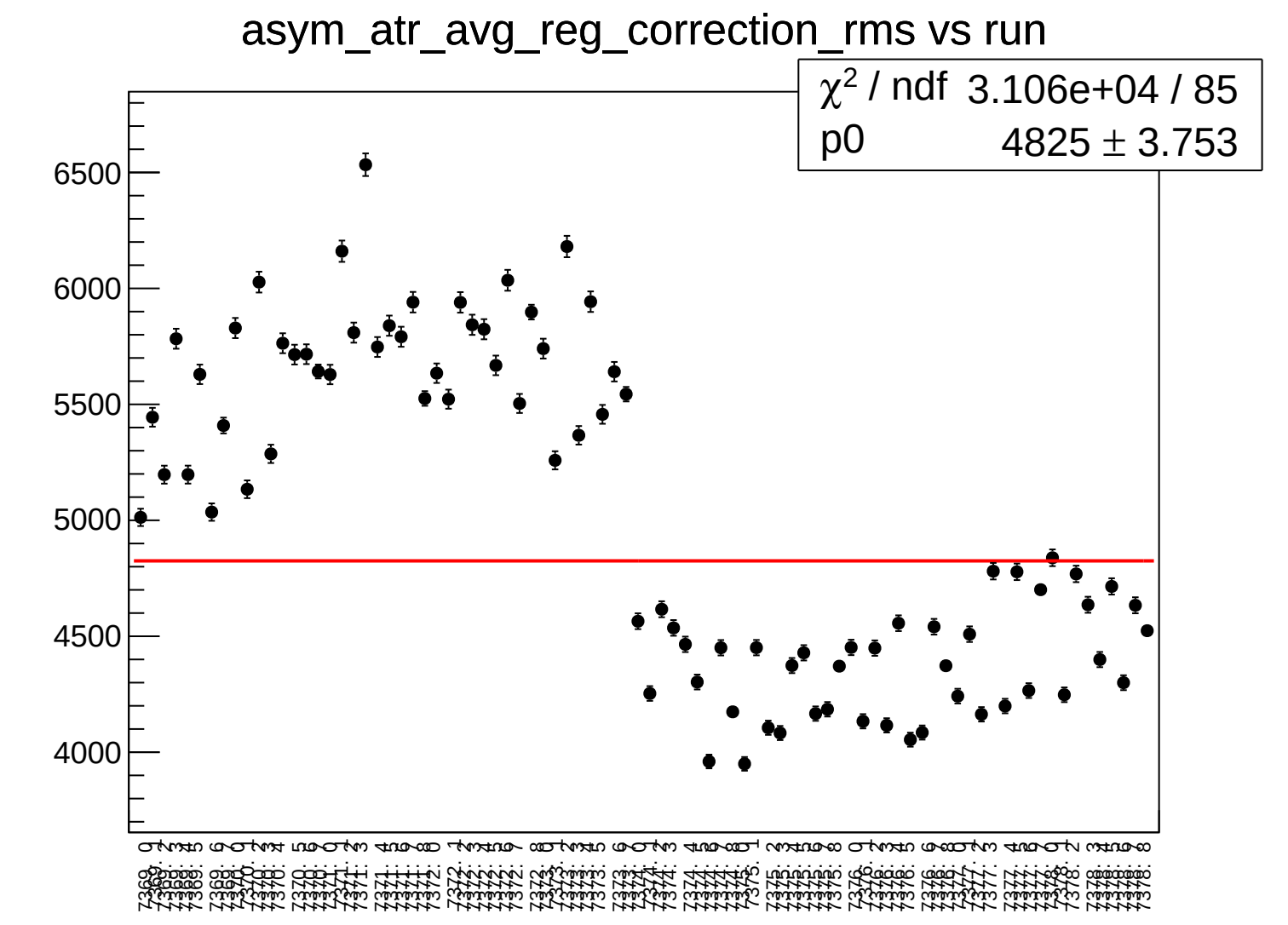

reg_asym_atr_avg_mean vs run
χ² / ndf 80.93 / 85
p0 114.7 ± 2019
pull
Entries 86
Mean 202.3
Std Dev 0

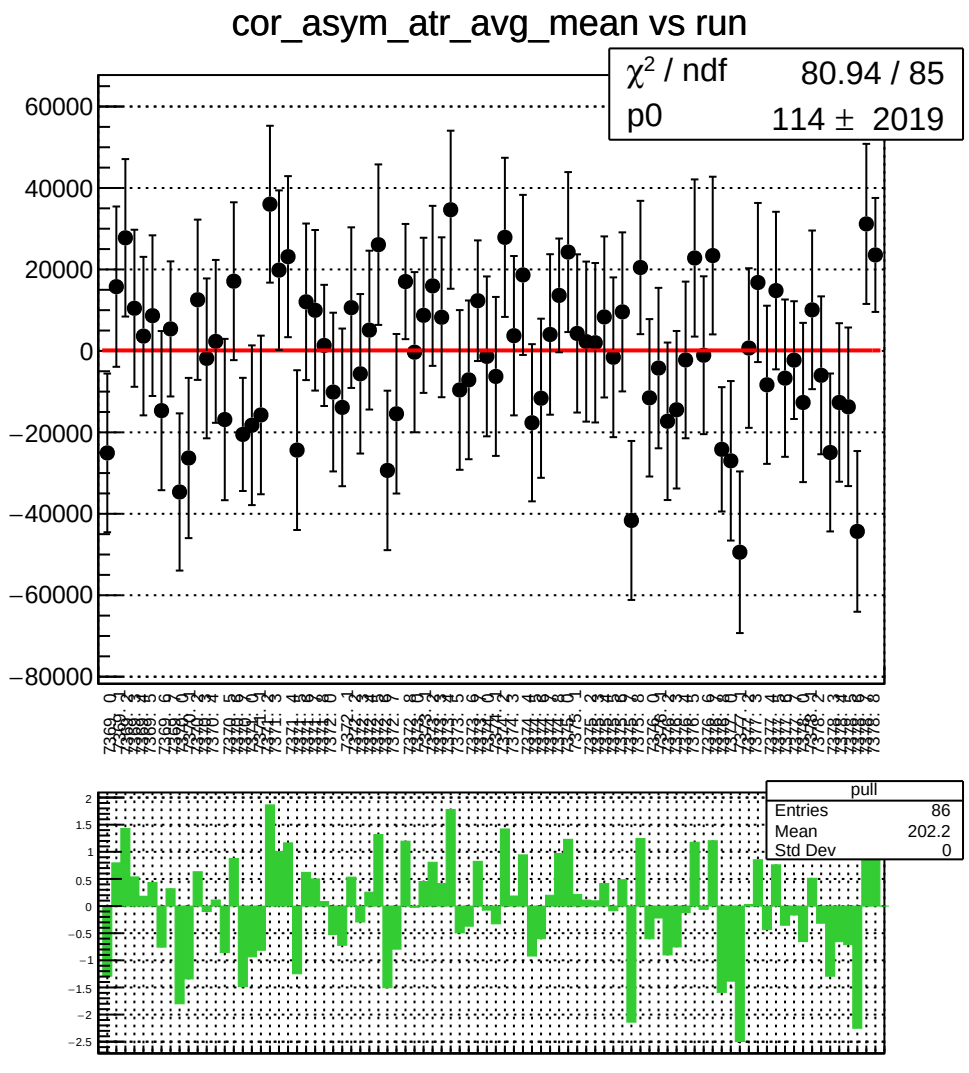

pull1D
Entries 86
Mean −0.01195
Std Dev 0.97

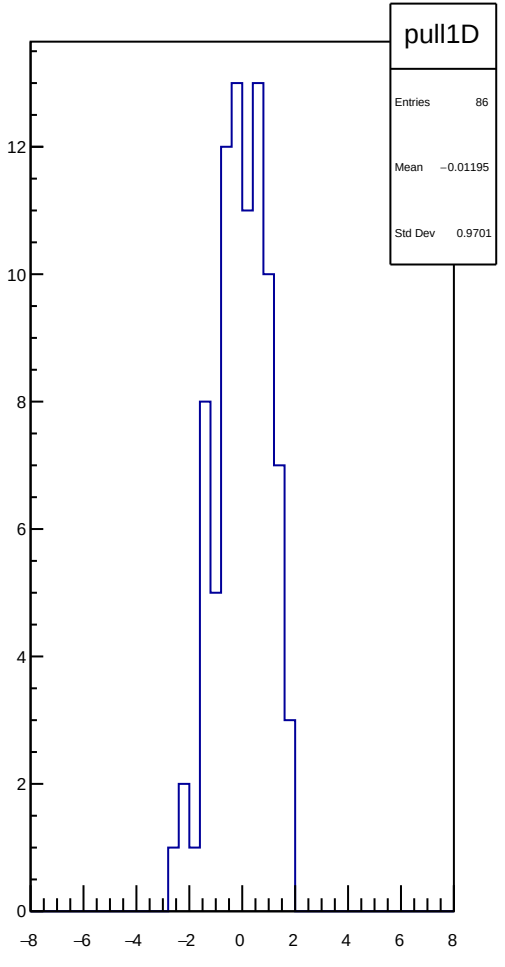

reg_asym_atr_avg_rms vs run
χ² / ndf 106.8 / 85
p0 1853 ± 1.428
1920
1900
1880
1860
1840
1820
1800

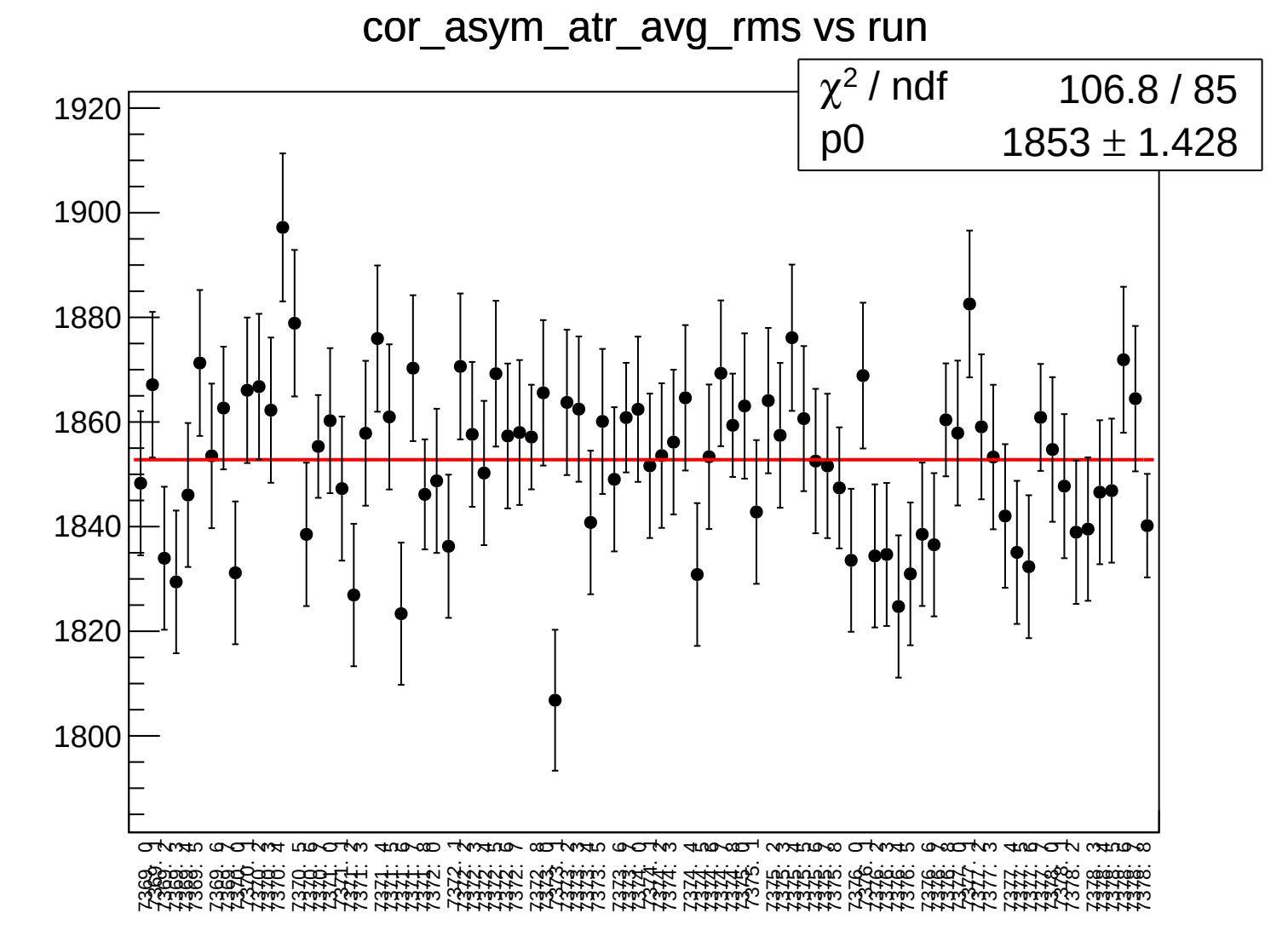

asym_atr_avg_reg_correction_mean vs run
χ² / ndf 97.77 / 85
p0 −6445 ± 5307
×10³
pull
Entries 86
Mean −181.9
Std Dev 0

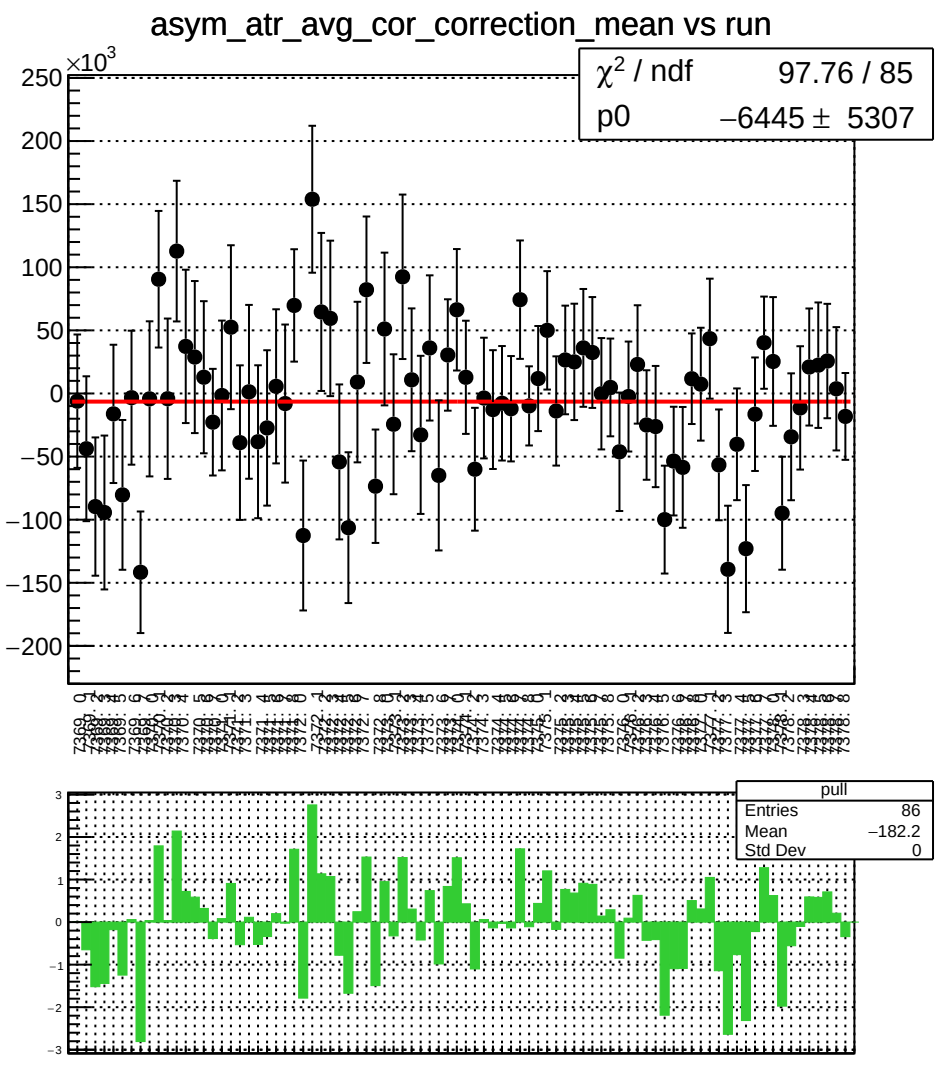

pull1D
Entries 86
Mean 0.005952
Std Dev 1.066

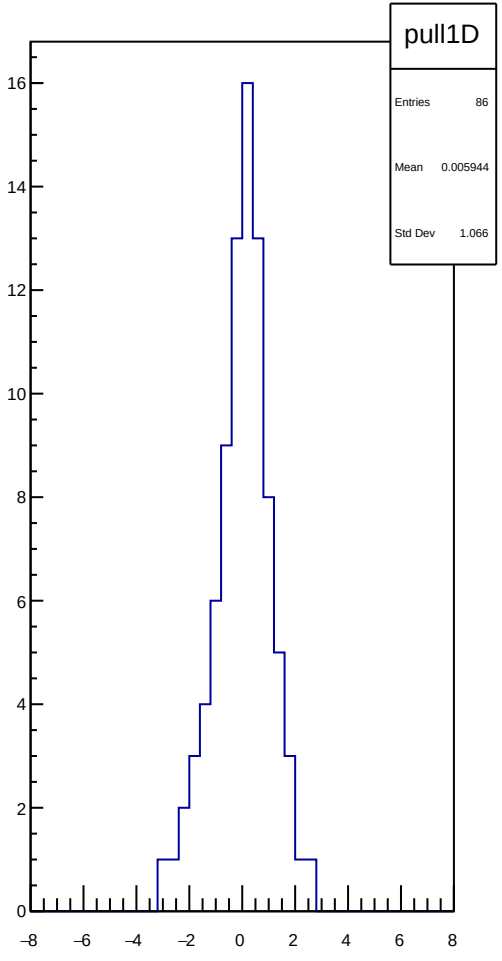

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 3.106e+04 / 85
p0 4825 ± 3.753
6500
6000
5500
5000
4500
4000

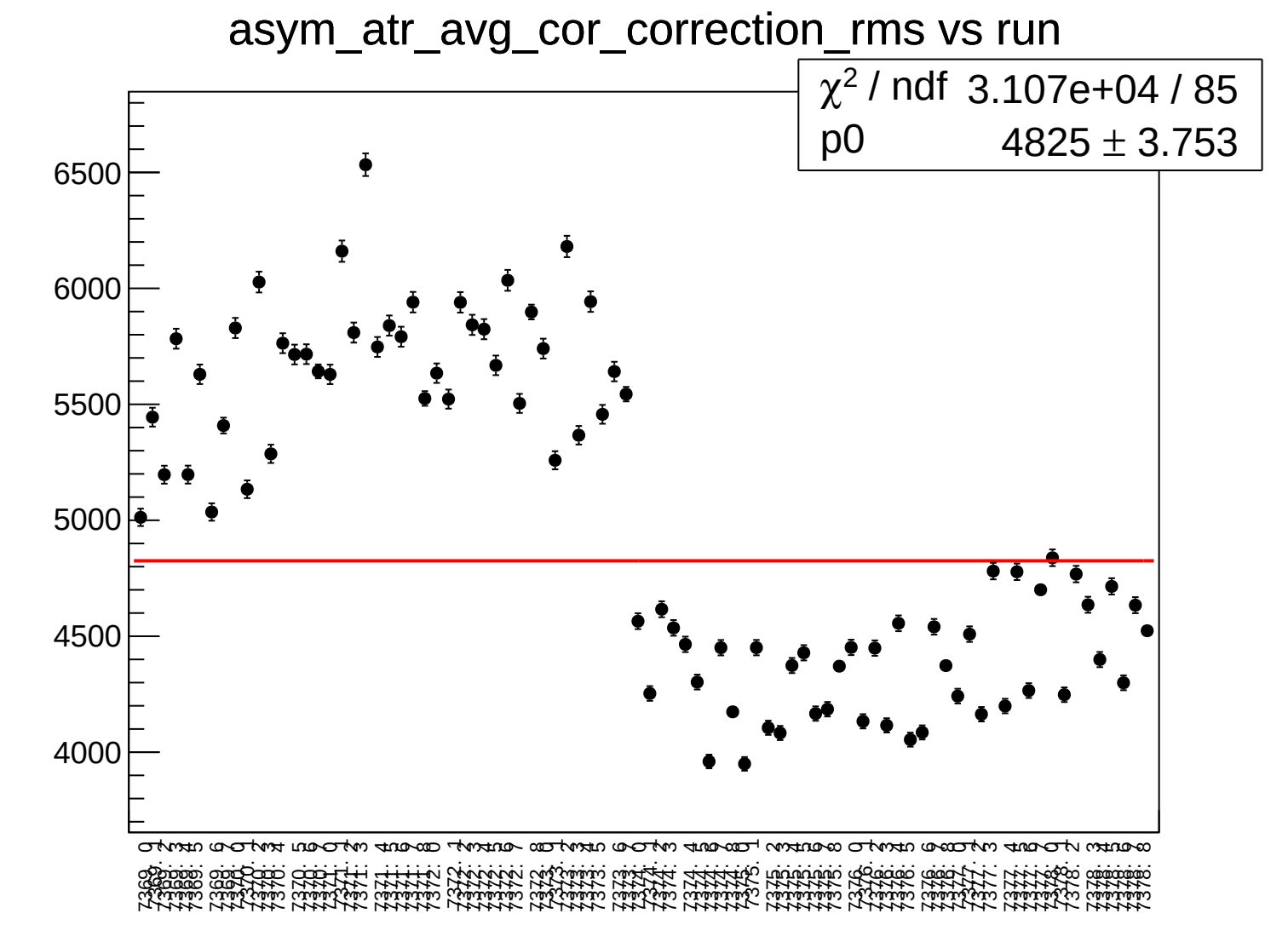

cor_asym_atr_avg_mean vs run
χ² / ndf 80.94 / 85
p0 114 ± 2019
pull
Entries 86
Mean 202.2
Std Dev 0

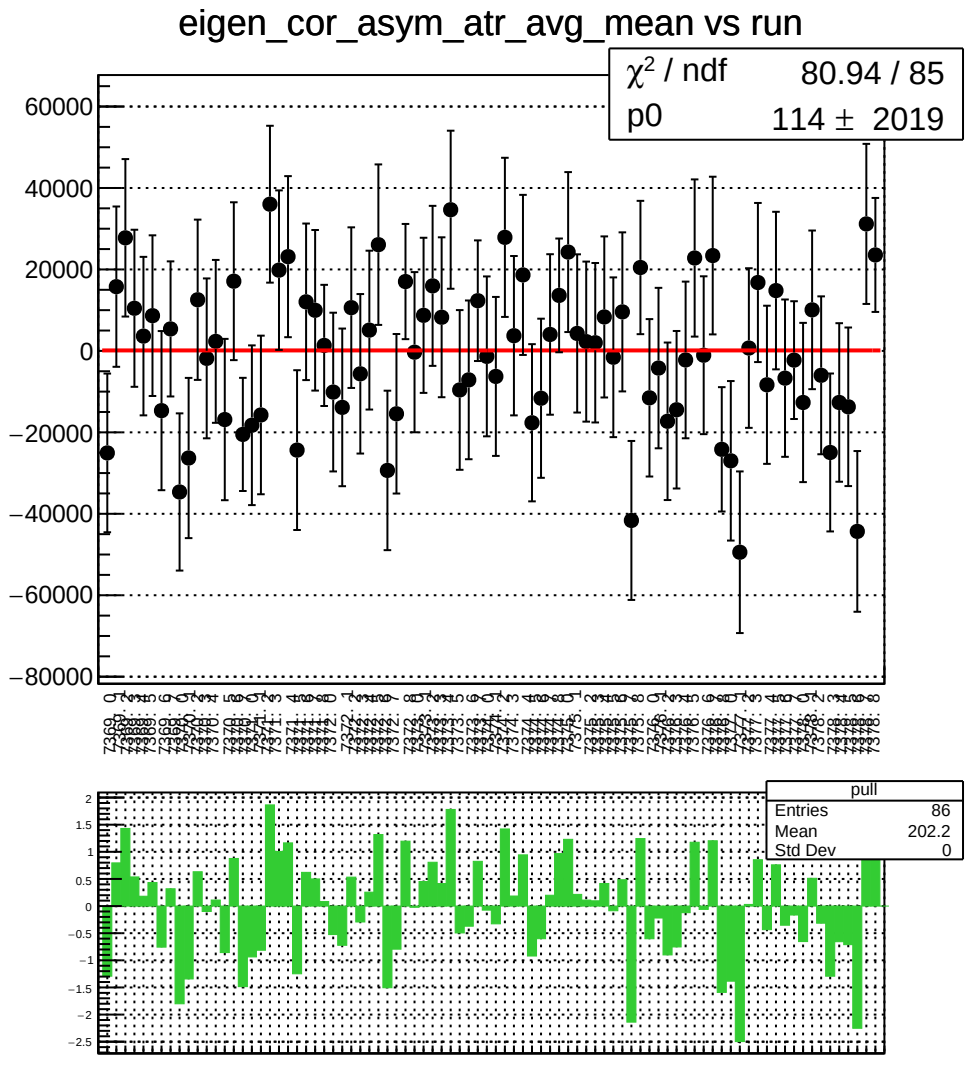

pull1D
Entries 86
Mean −0.01195
Std Dev 0.9701

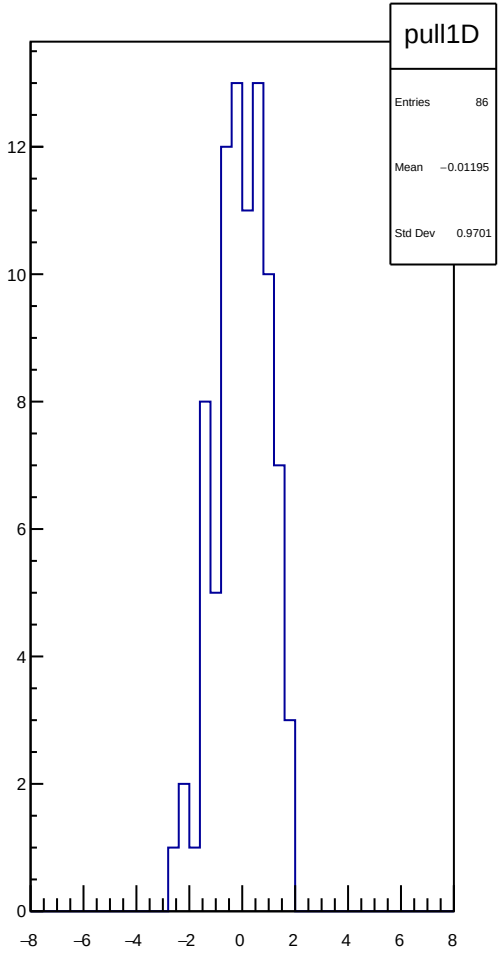

cor_asym_atr_avg_rms vs run
χ^2 / ndf 106.8 / 85
p0 1853 ± 1.428
1920
1900
1880
1860
1840
1820
1800

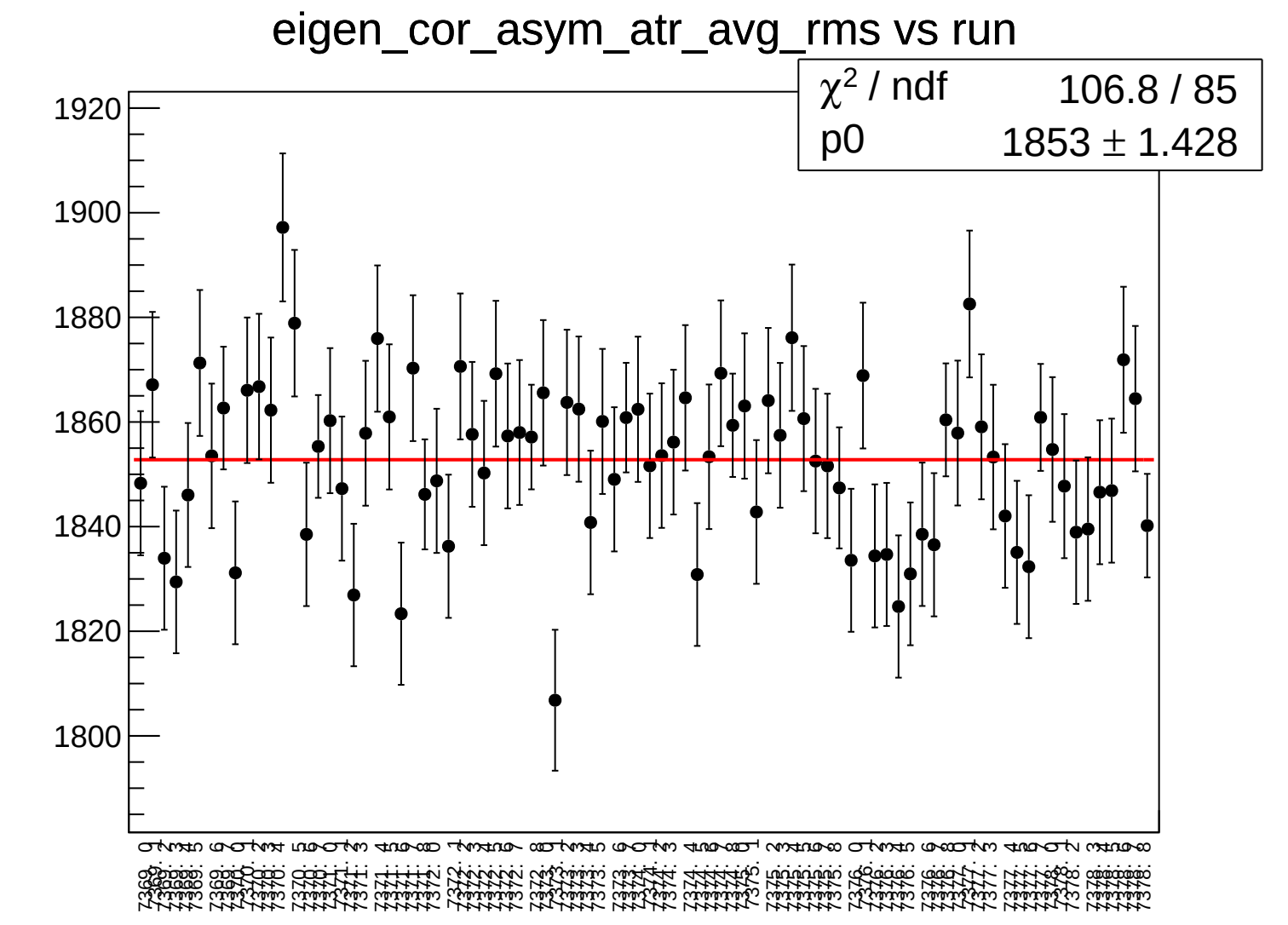

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 97.76 / 85
p0 −6445 ± 5307
pull
Entries 86
Mean −182.2
Std Dev 0

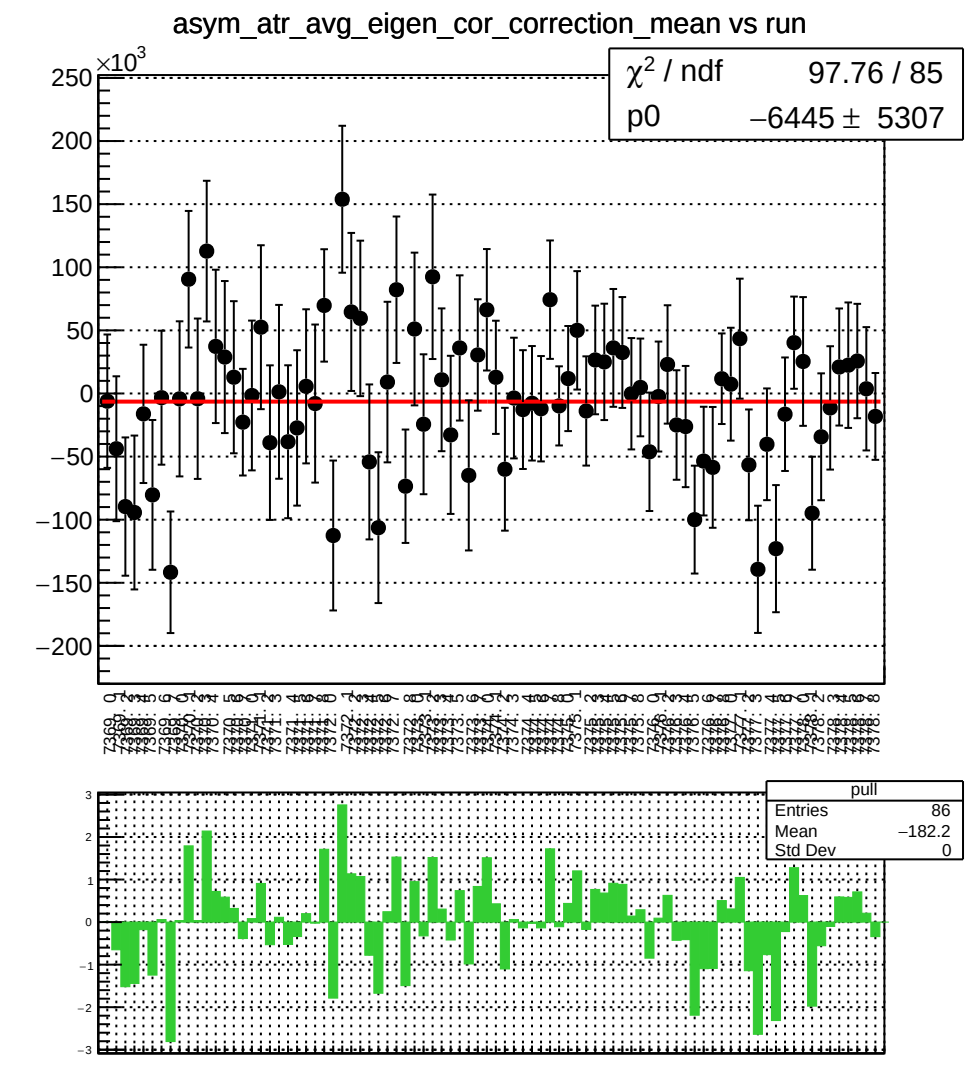

pull1D
Entries 86
Mean 0.005944
Std Dev 1.066

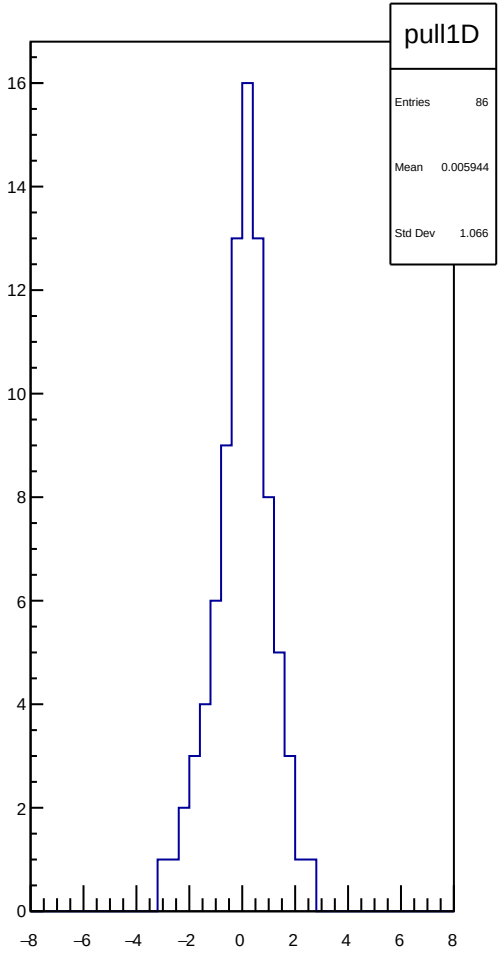

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 3.107e+04 / 85
p0 4825 ± 3.753
6500
6000
5500
5000
4500
4000

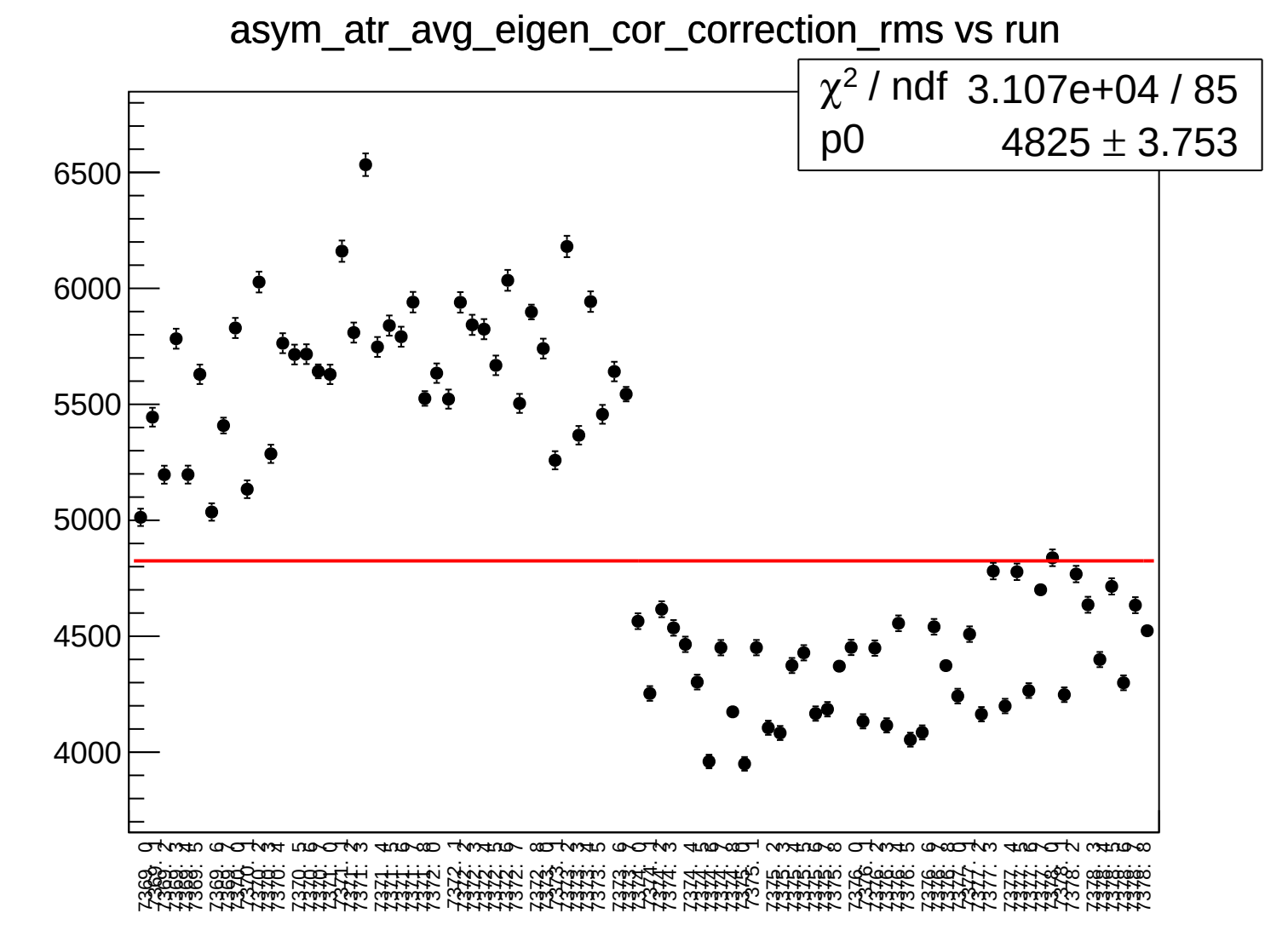

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 80.94 / 85
p0 114 ± 2019
pull
Entries 86
Mean 202.2
Std Dev 0

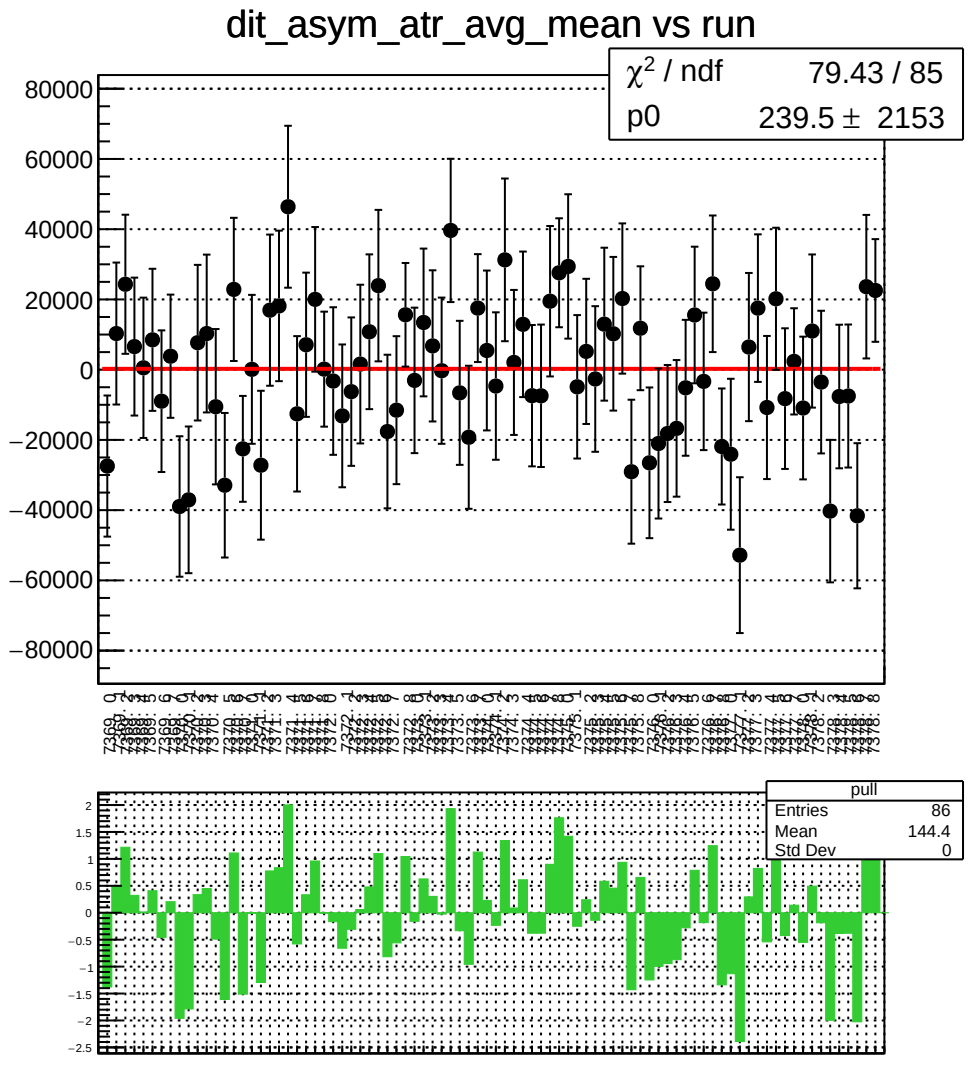

pull1D
Entries 86
Mean −0.01195
Std Dev 0.9701

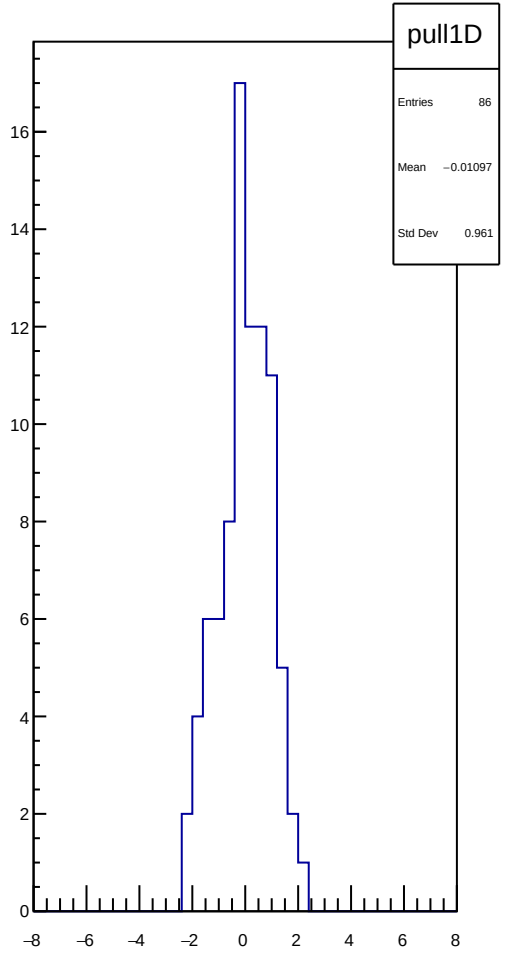

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 106.8 / 85
p0 1853 ± 1.428
1920
1900
1880
1860
1840
1820
1800

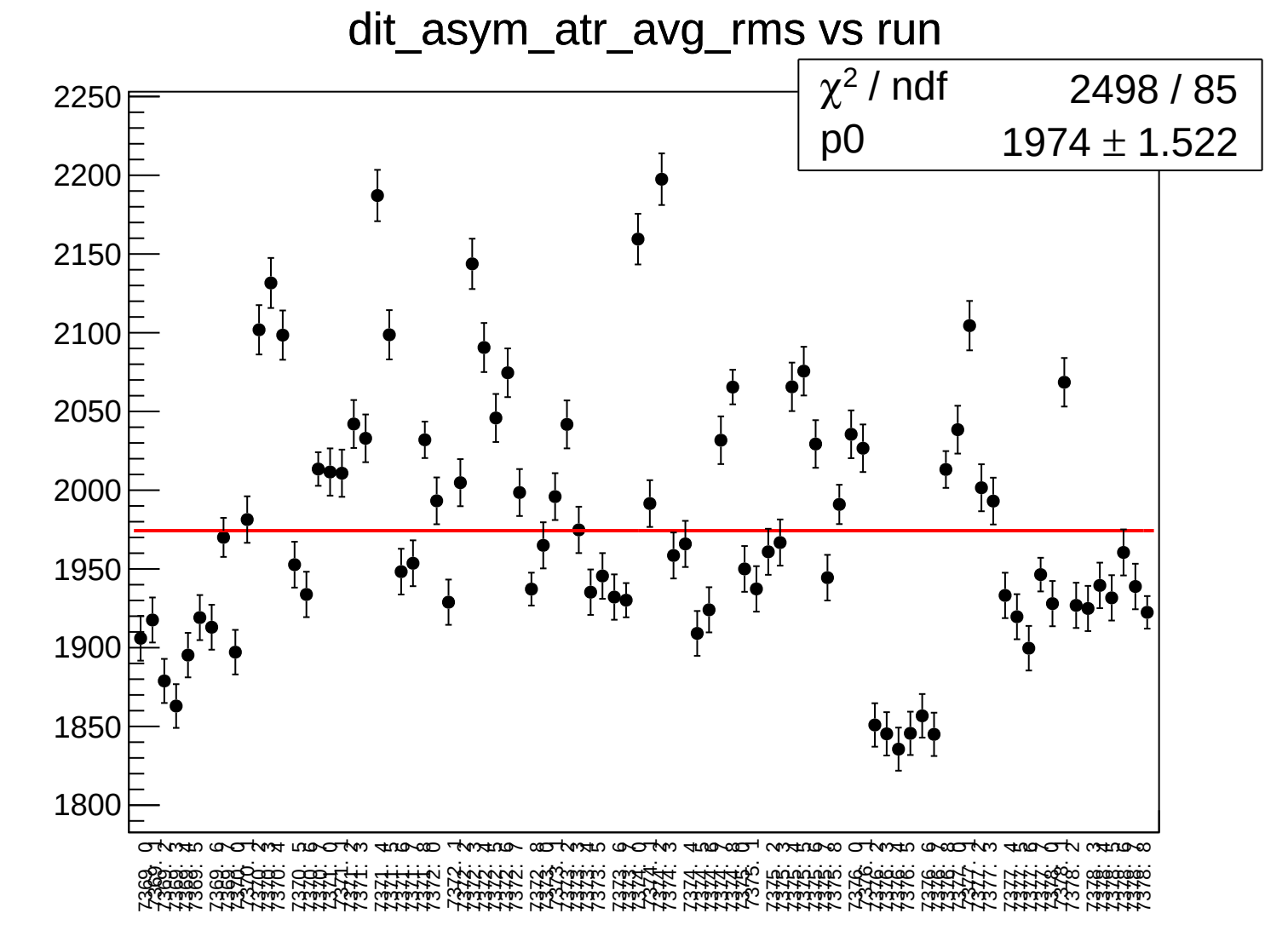

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.76 / 85
p0 −6445 ± 5307
×10³
pull
Entries 86
Mean −182.2
Std Dev 0

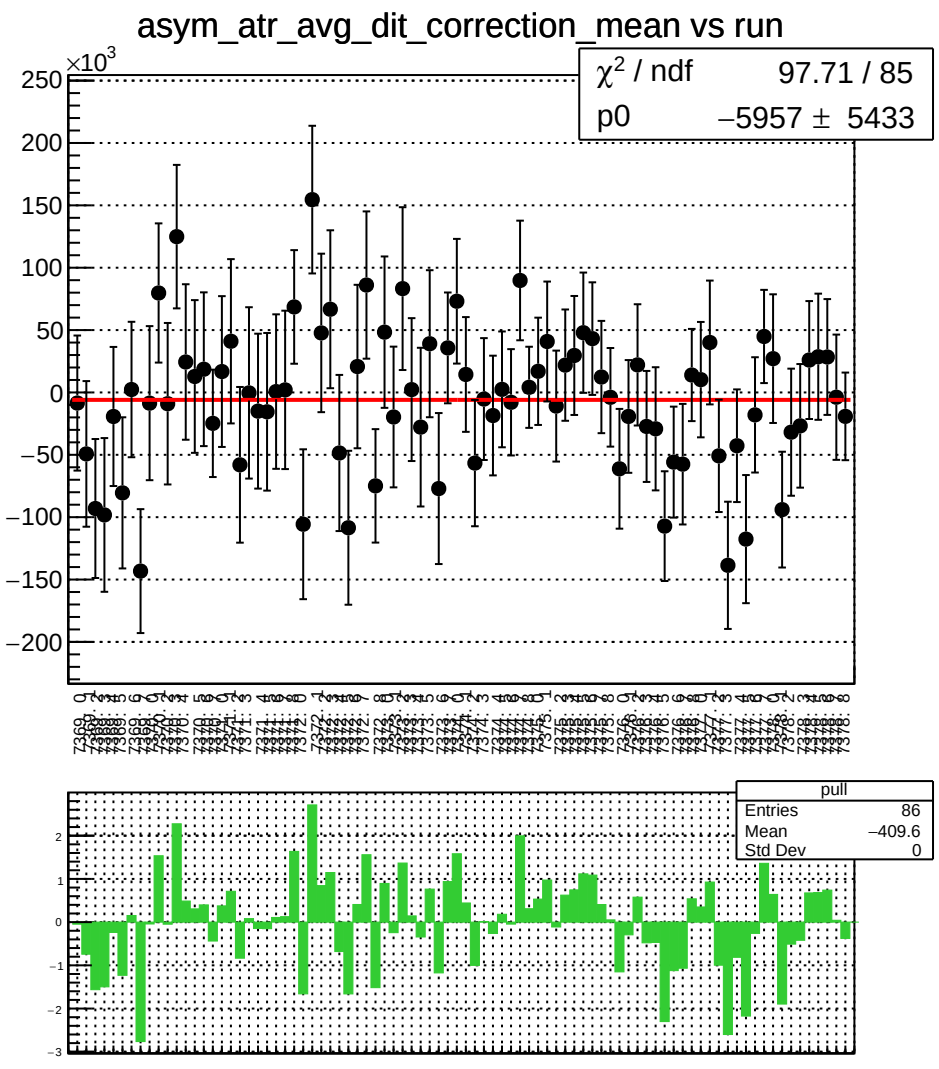

pull1D
Entries 86
Mean 0.005944
Std Dev 1.066

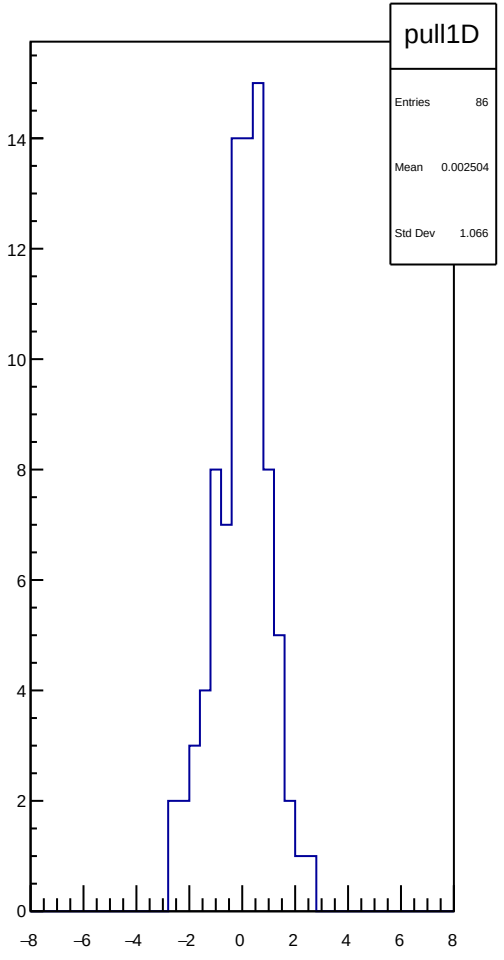

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.107e+04 / 85
p0 4825 ± 3.753
6500
6000
5500
5000
4500
4000

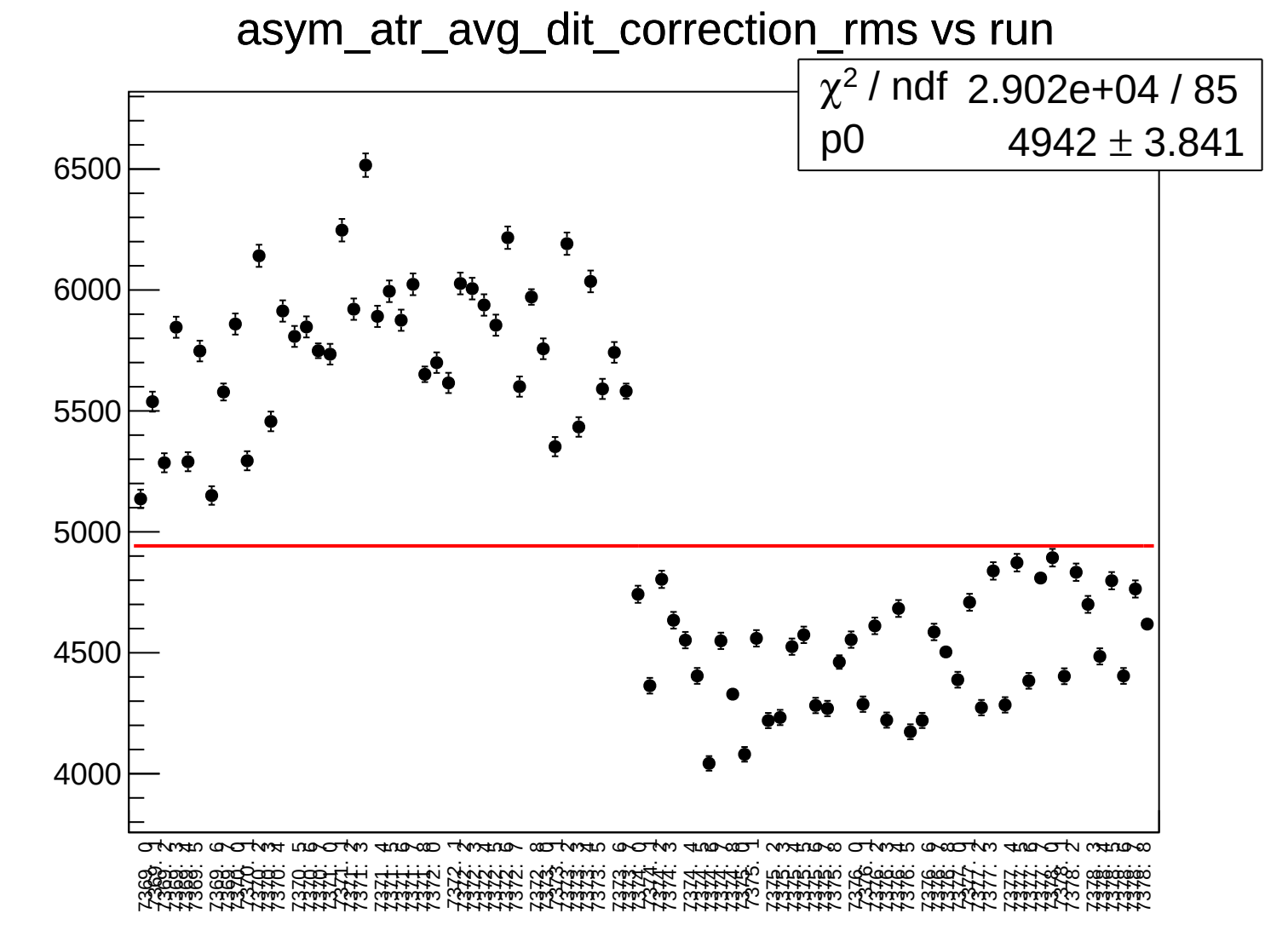

dit_asym_atr_avg_mean vs run
χ² / ndf 79.43 / 85
p0 239.5 ± 2153
pull
Entries 86
Mean 144.4
Std Dev 0

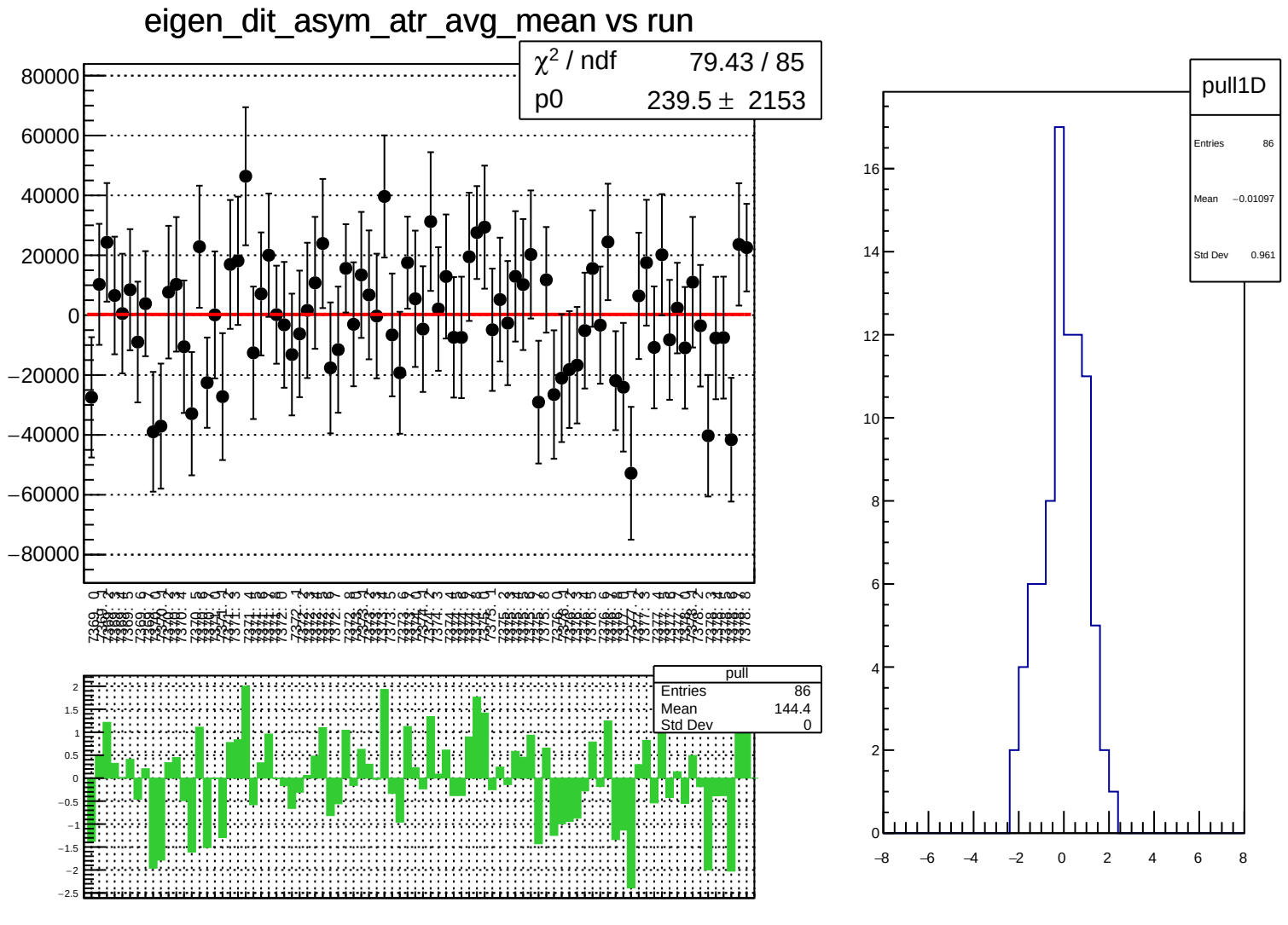

pull1D
Entries 86
Mean −0.01097
Std Dev 0.961

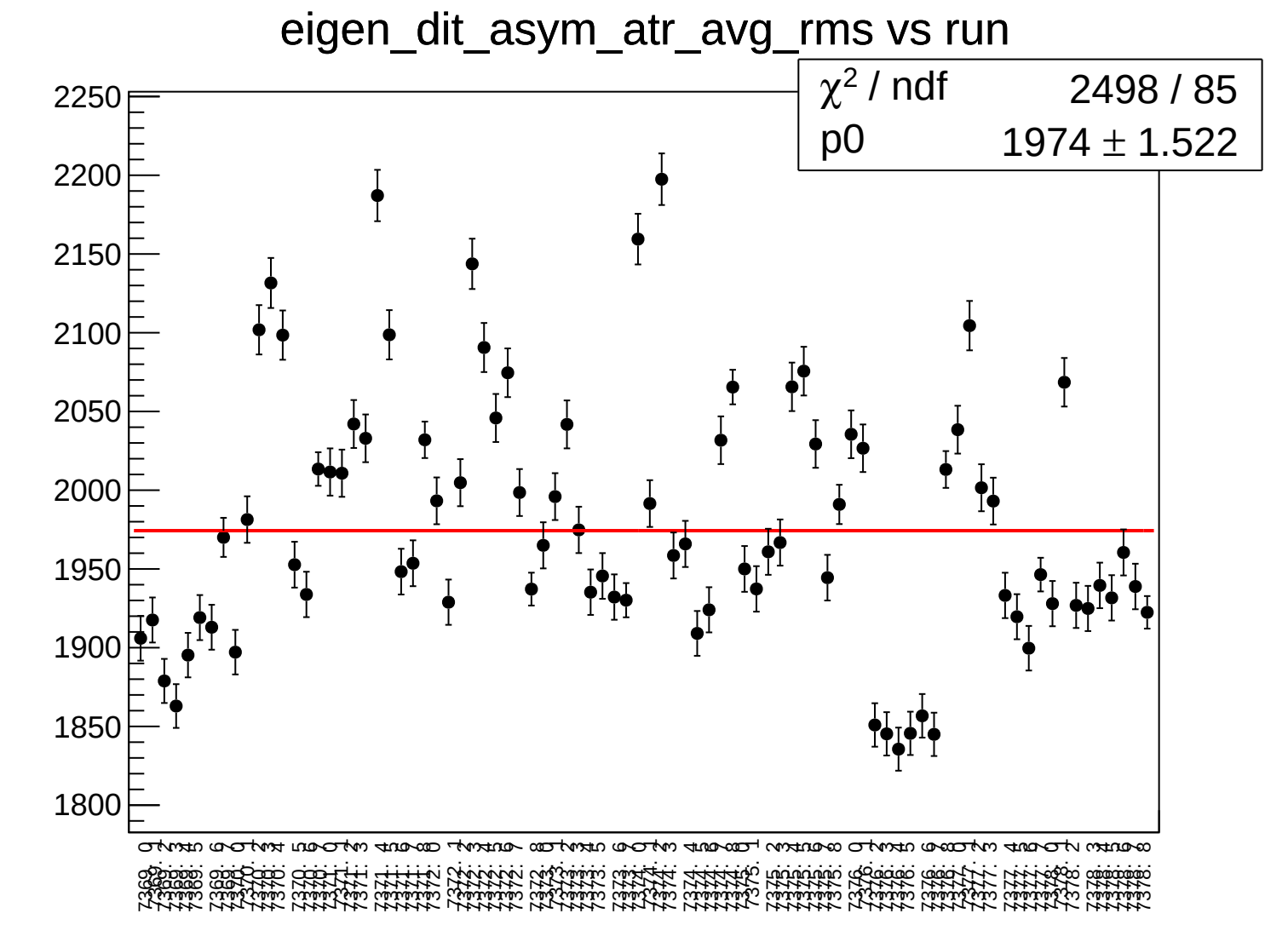

dit_asym_atr_avg_rms vs run
χ² / ndf 2498 / 85
p0 1974 ± 1.522
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

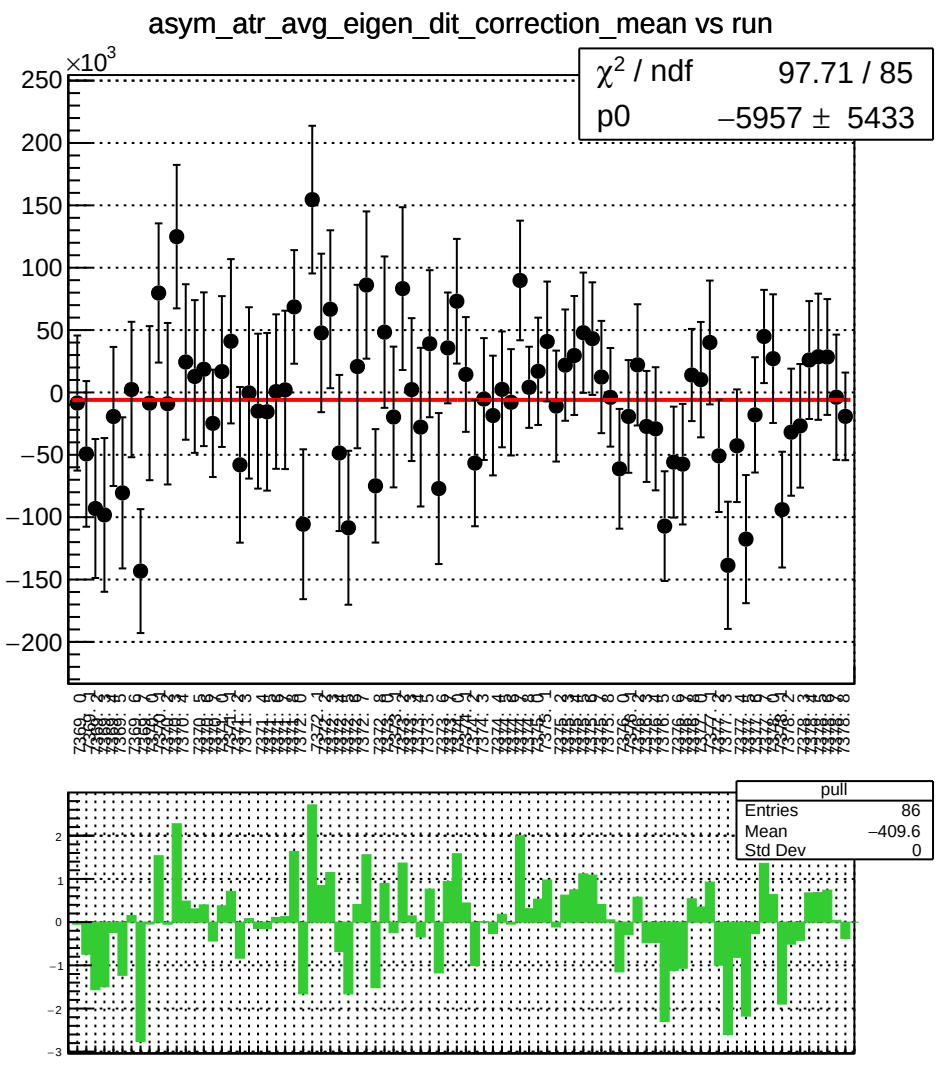

asym_atr_avg_dit_correction_mean vs run
χ² / ndf 97.71 / 85
p0 −5957 ± 5433
×10³
pull
Entries 86
Mean −409.6
Std Dev 0

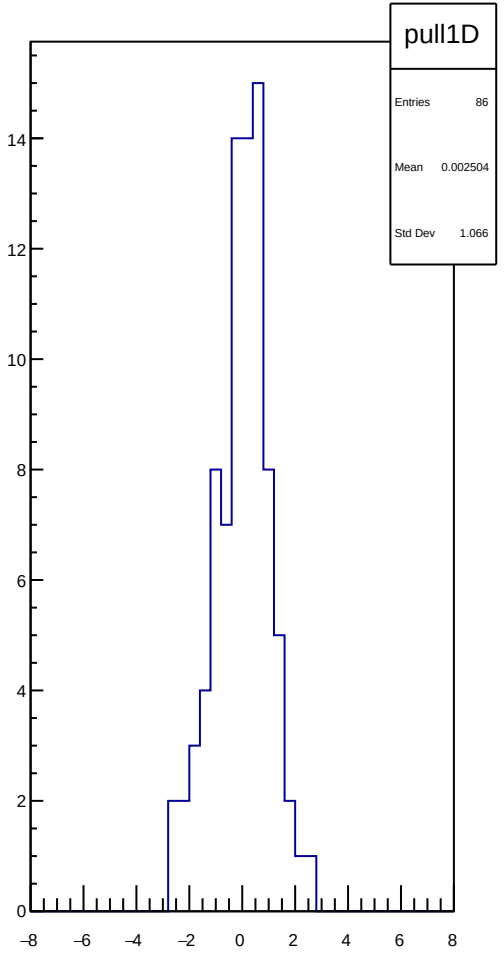

pull1D
Entries 86
Mean 0.002504
Std Dev 1.066

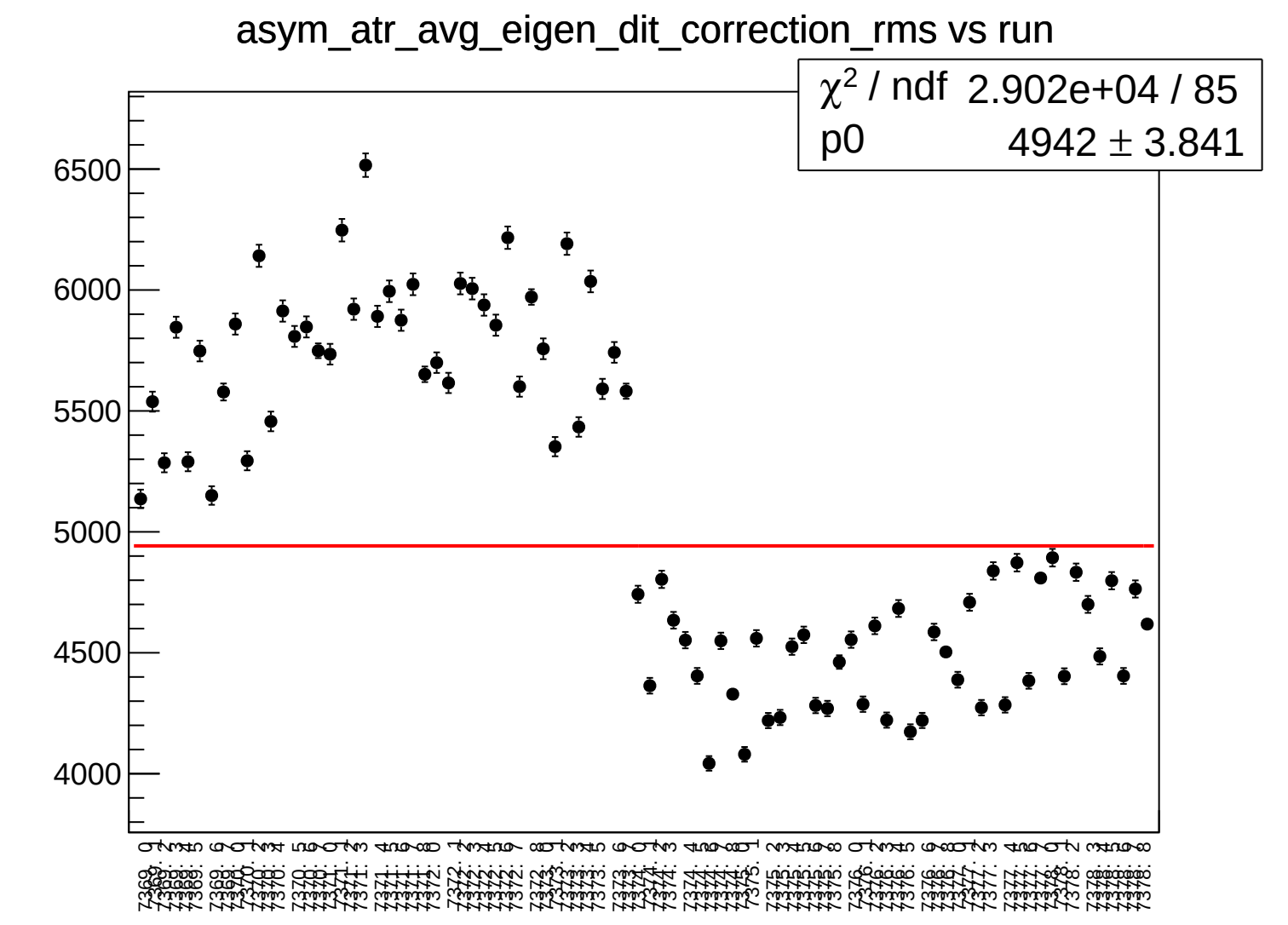

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 2.902e+04 / 85
p0 4942 ± 3.841
6500
6000
5500
5000
4500
4000

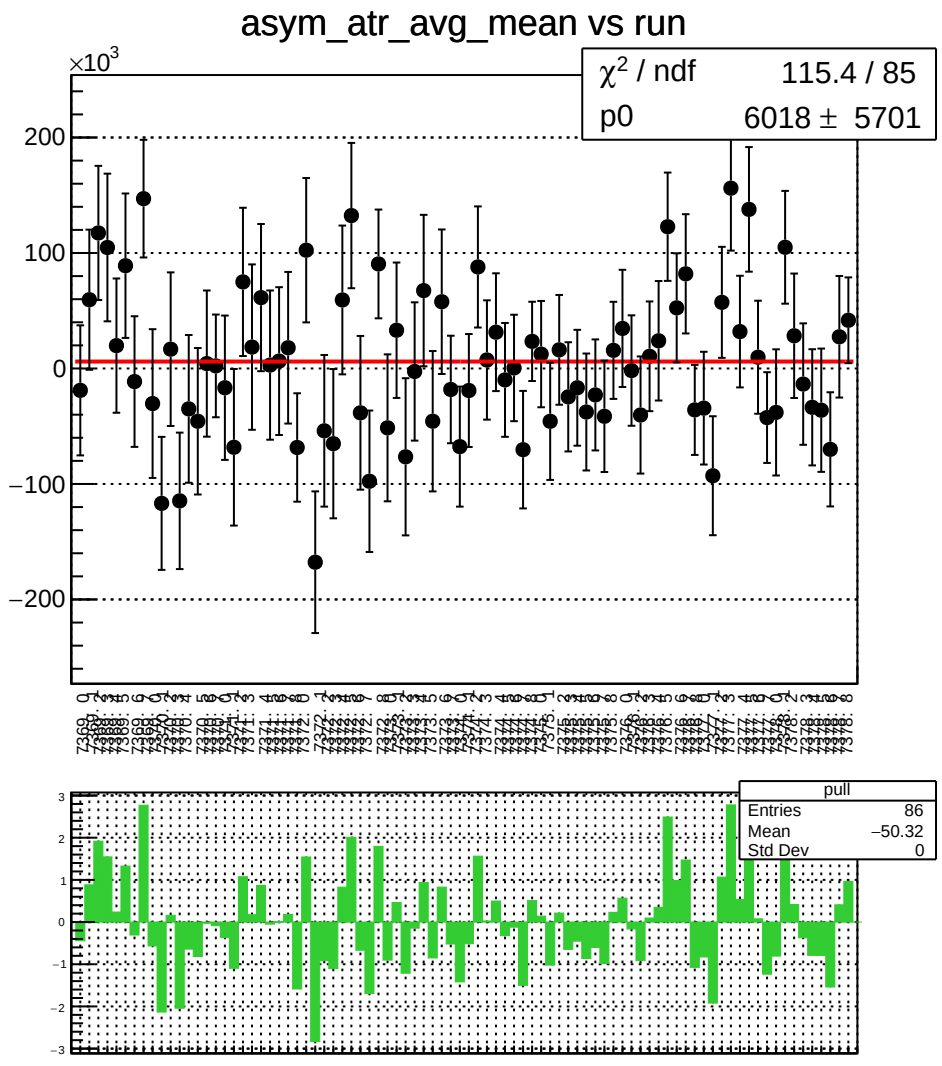

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 79.43 / 85
p0 239.5 ± 2153
pull
Entries 86
Mean 144.4
Std Dev 0
pull1D
Entries 86
Mean −0.01097
Std Dev 0.961

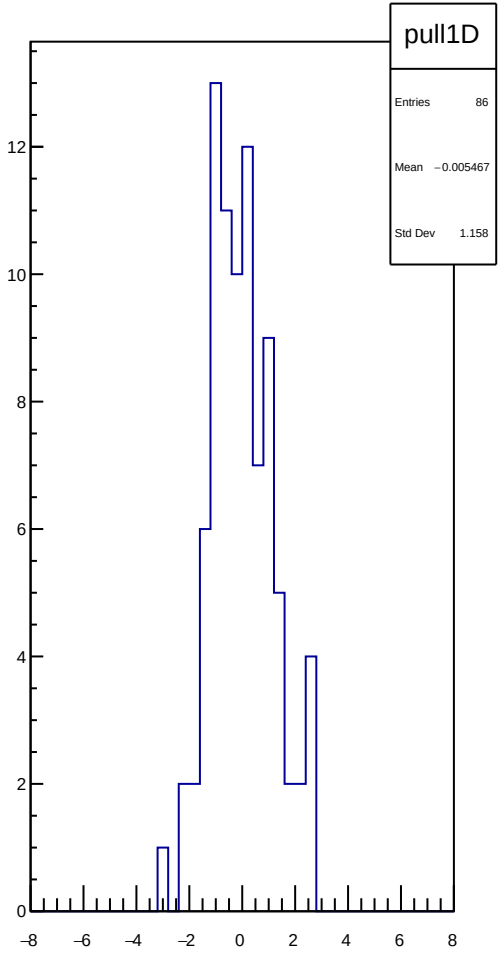

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 2498 / 85
p0 1974 ± 1.522
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

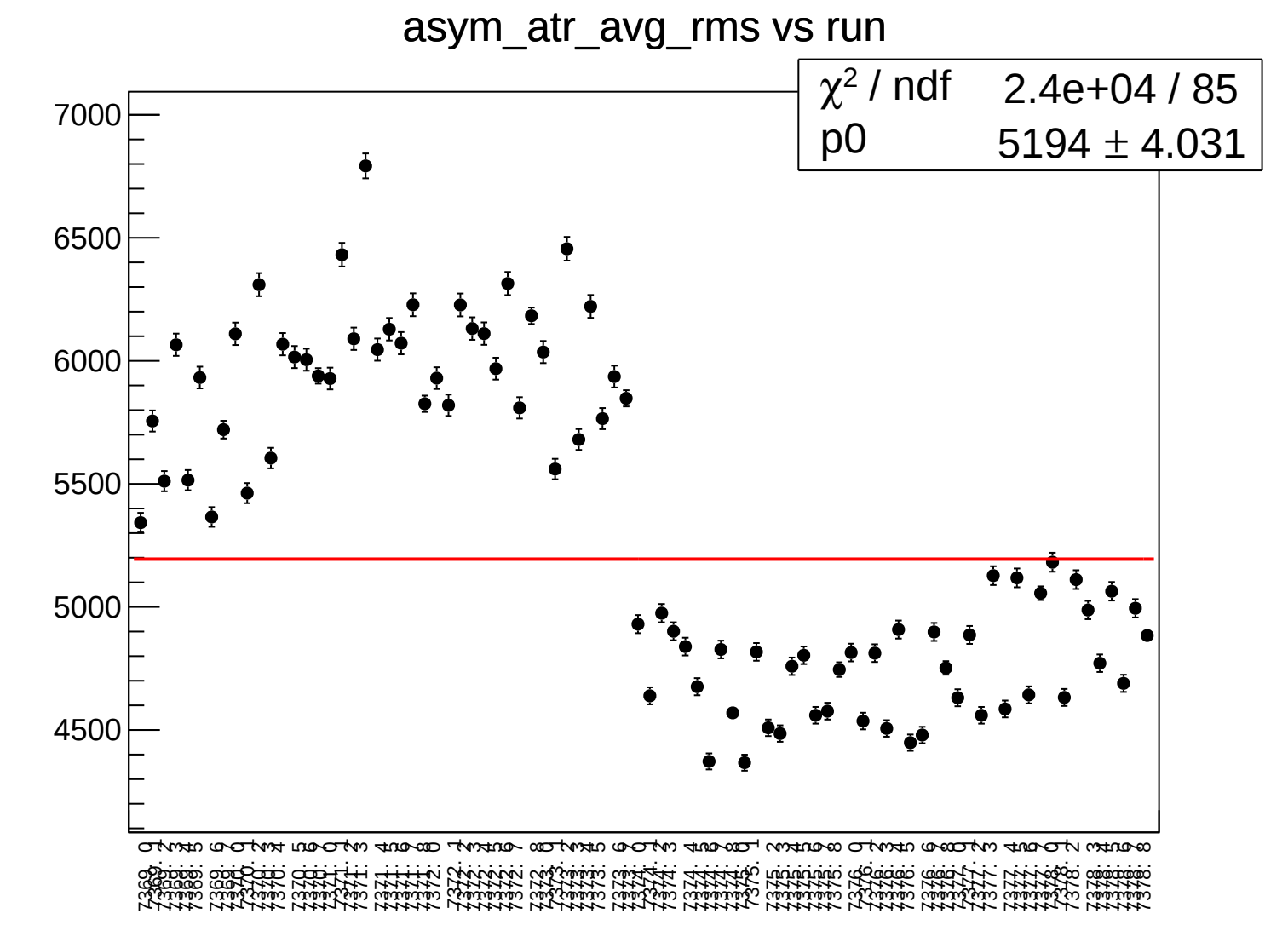

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.71 / 85
p0 −5957 ± 5433
pull
Entries 86
Mean −409.6
Std Dev 0

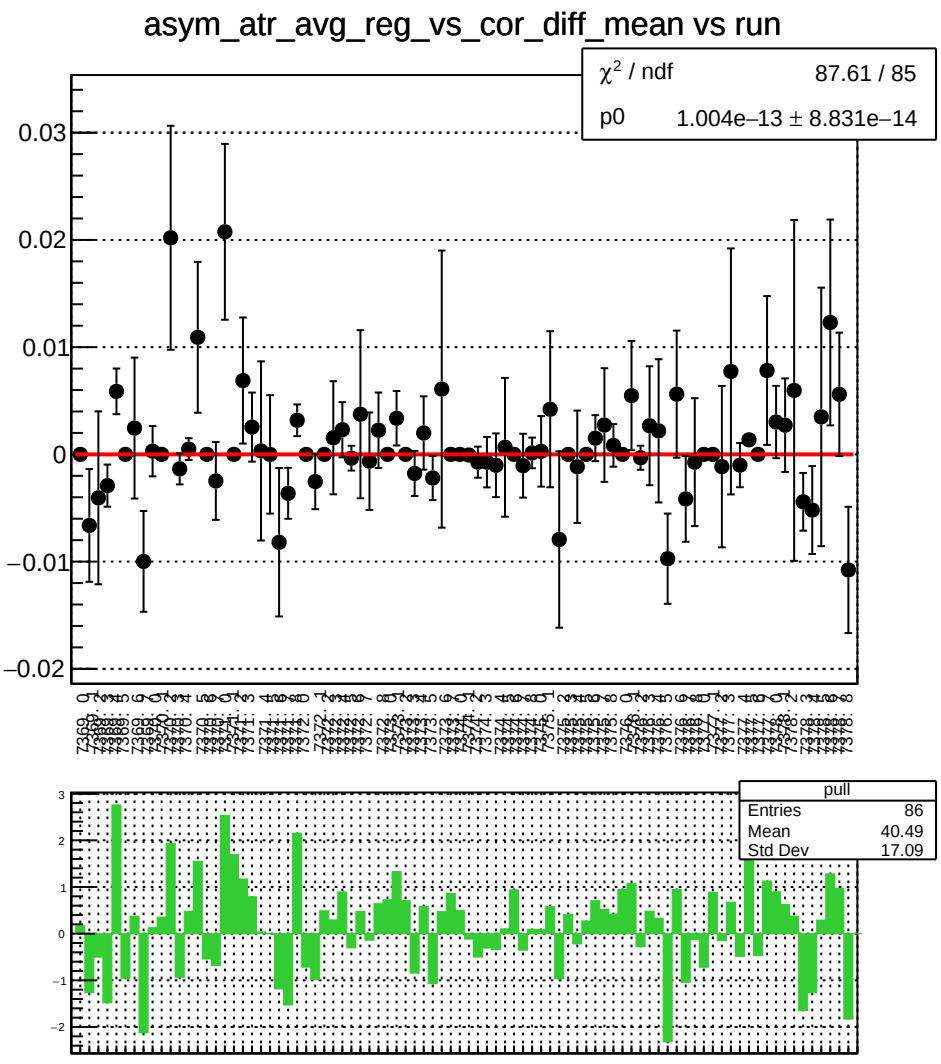

pull1D
Entries 86
Mean 0.002504
Std Dev 1.066

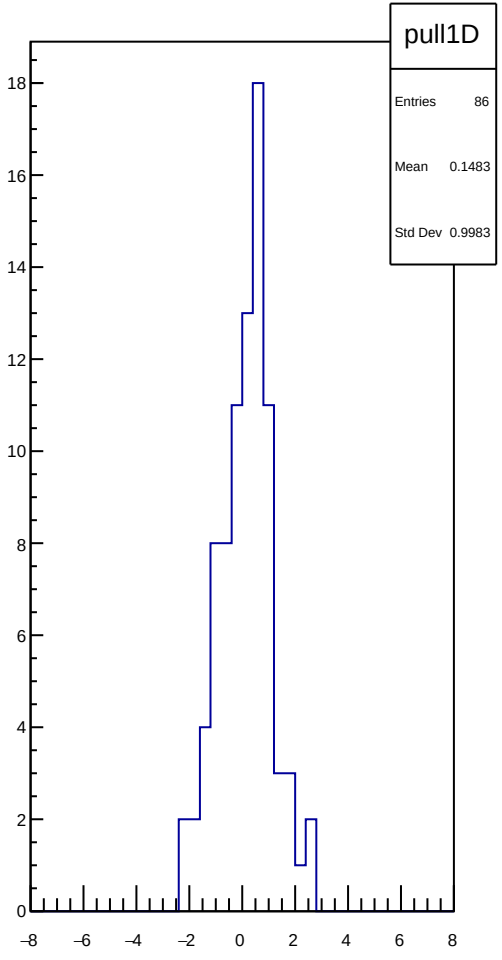

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.902e+04 / 85
p0 4942 ± 3.841
6500
6000
5500
5000
4500
4000

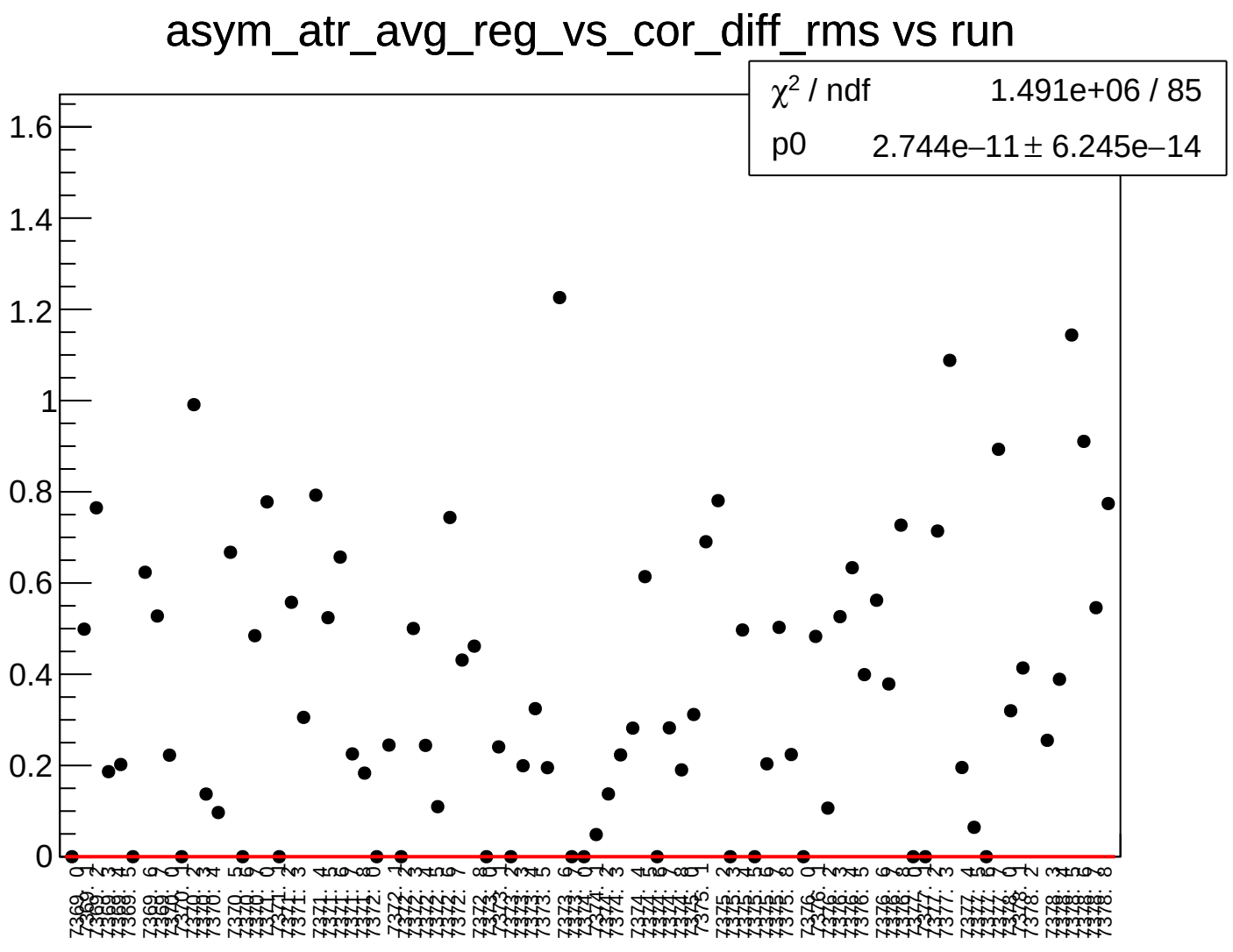

asym_atr_avg_mean vs run
×10^3
χ² / ndf 115.4 / 85
p0 6018 ± 5701
200
100
0
−100
−200
pull
Entries 86
Mean −50.32
Std Dev 0
3
2
1
0
−1
−2
−3

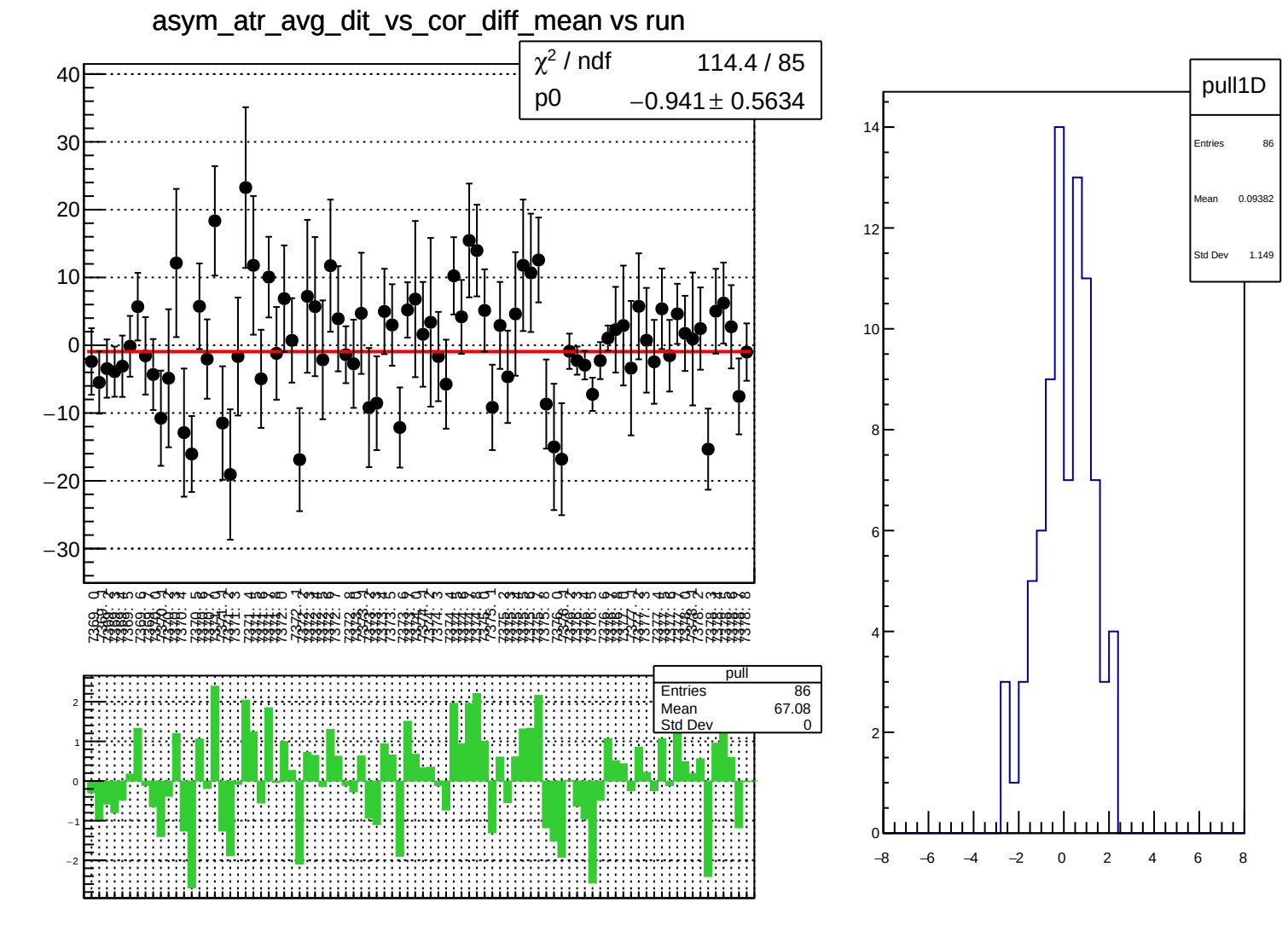

pull1D
Entries 86
Mean −0.005467
Std Dev 1.158
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

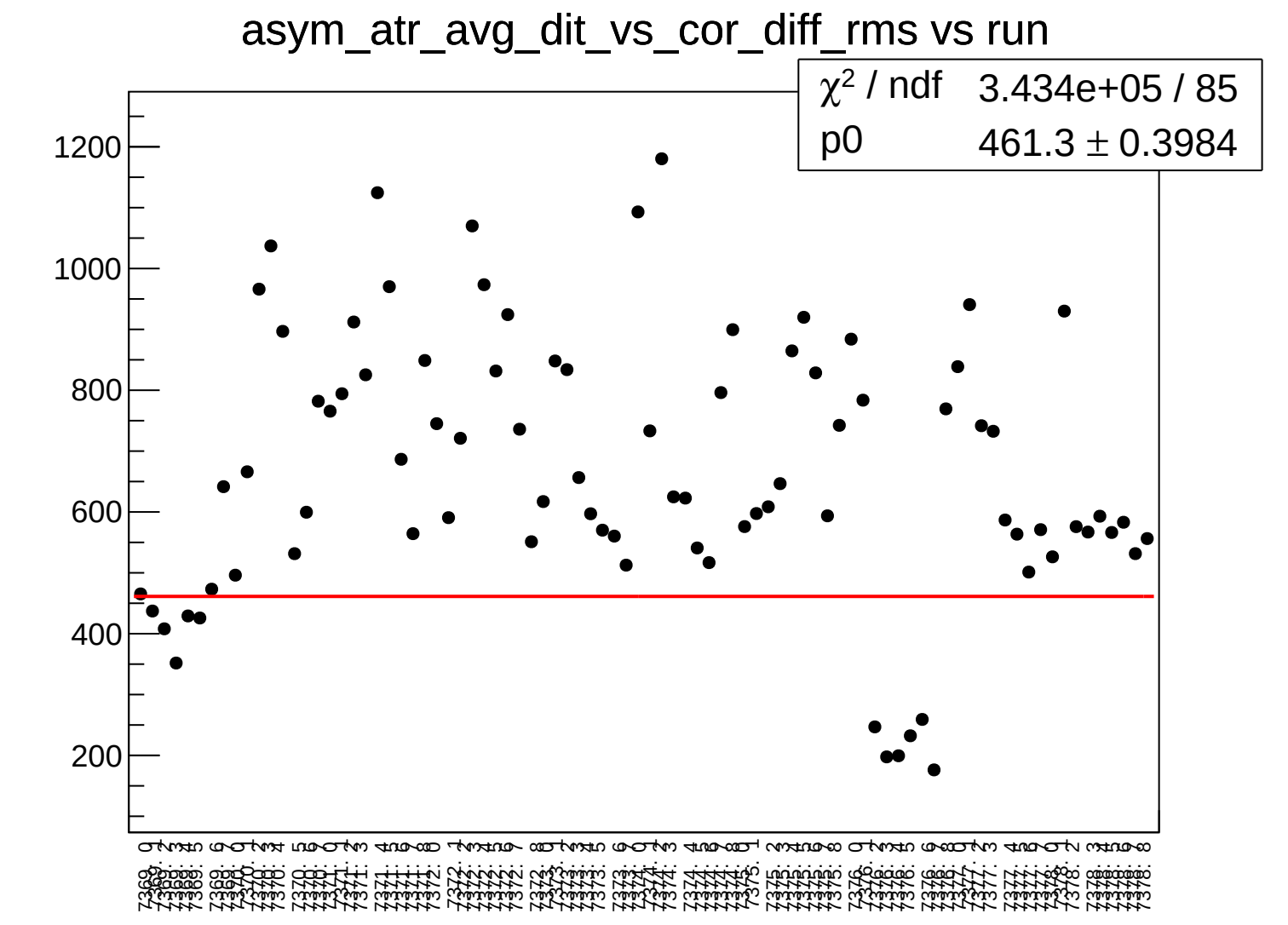

asym_atr_avg_rms vs run
χ^2 / ndf 2.4e+04 / 85
p0 5194 ± 4.031
7000
6500
6000
5500
5000
4500


asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.61 / 85
p0 1.004e−13 ± 8.831e−14
pull
Entries 86
Mean 40.49
Std Dev 17.09

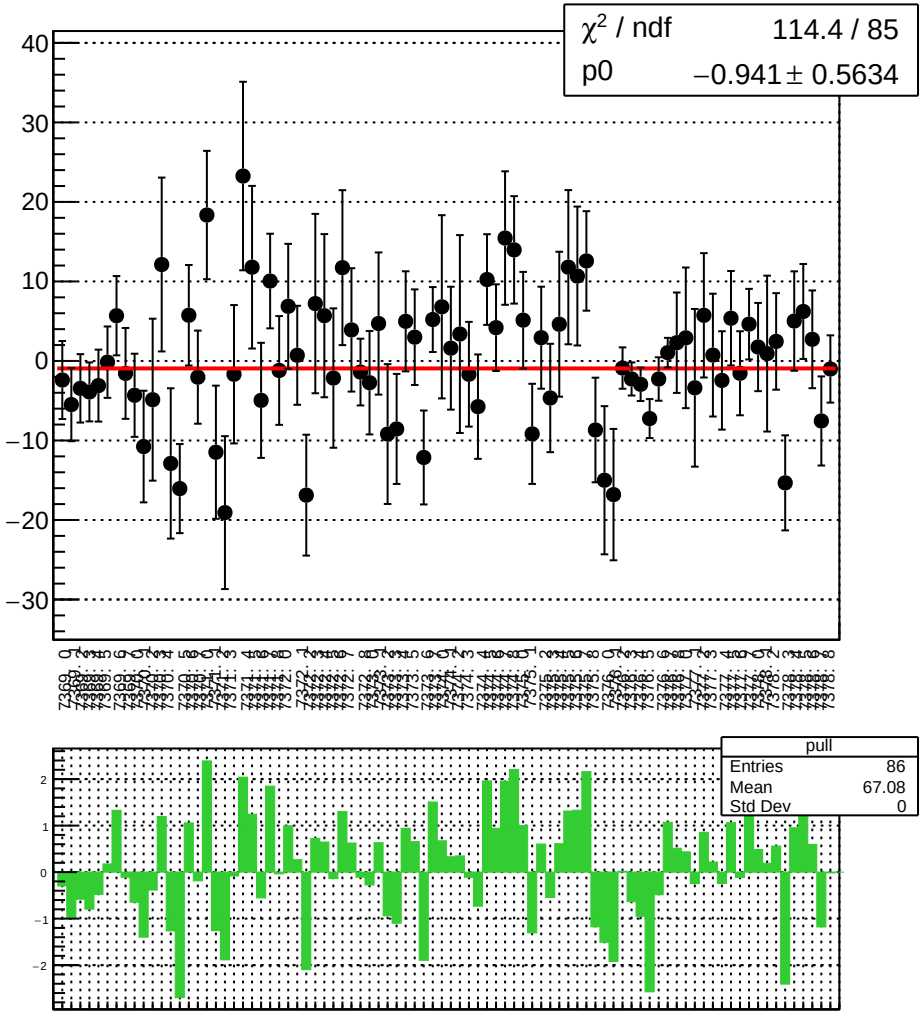

pull1D
Entries 86
Mean 0.1483
Std Dev 0.9983

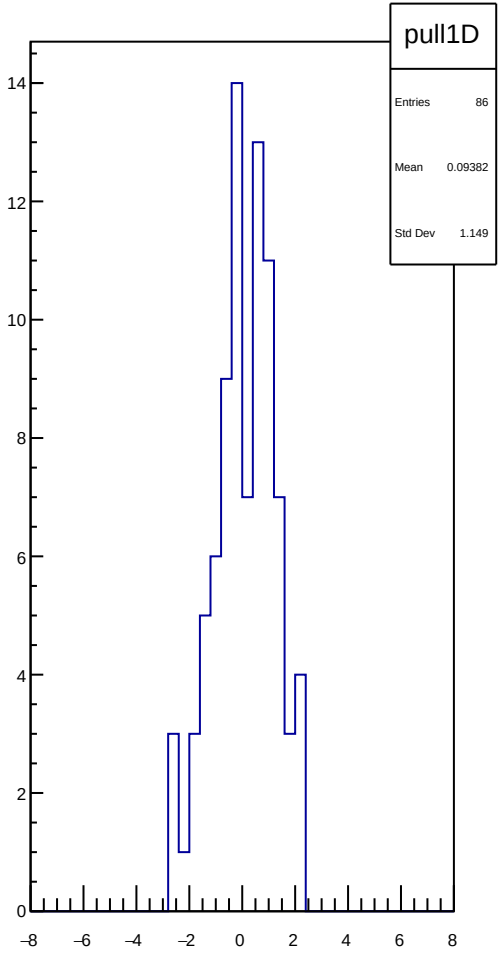

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.491e+06 / 85
p0 2.744e−11 ± 6.245e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

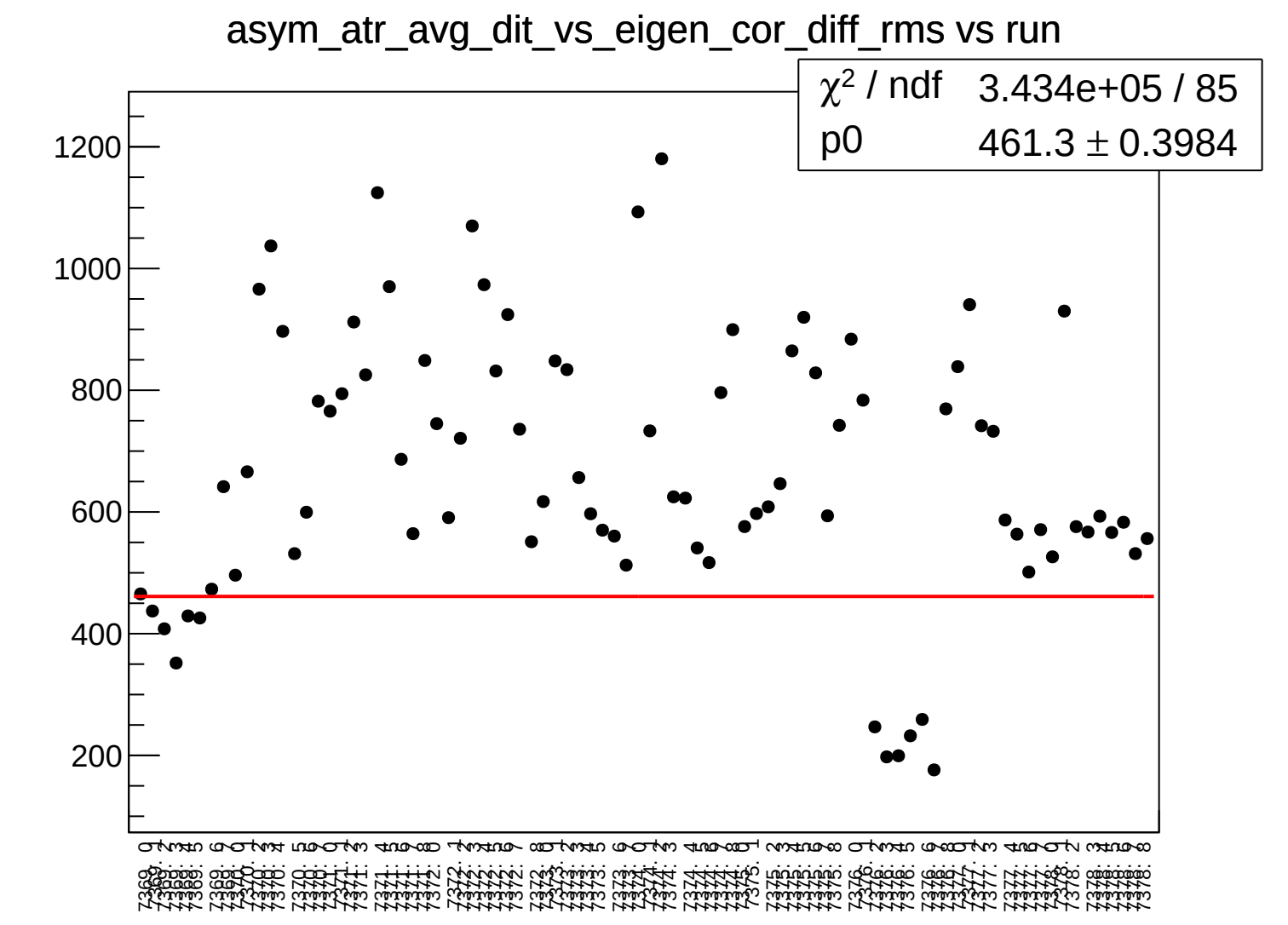

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 114.4 / 85
p0 −0.941 ± 0.5634
pull
Entries 86
Mean 67.08
Std Dev 0
pull1D
Entries 86
Mean 0.09382
Std Dev 1.149

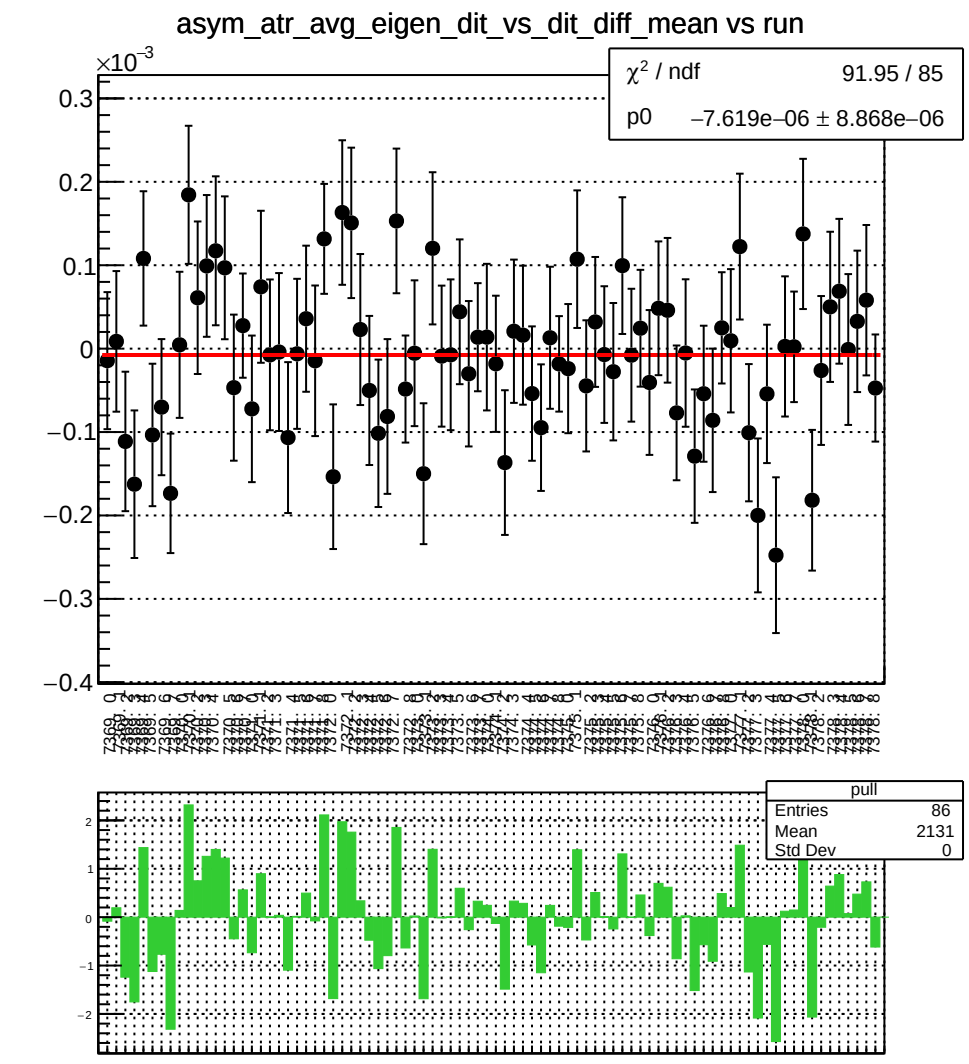

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.434e+05 / 85
p0 461.3 ± 0.3984
1200
1000
800
600
400
200

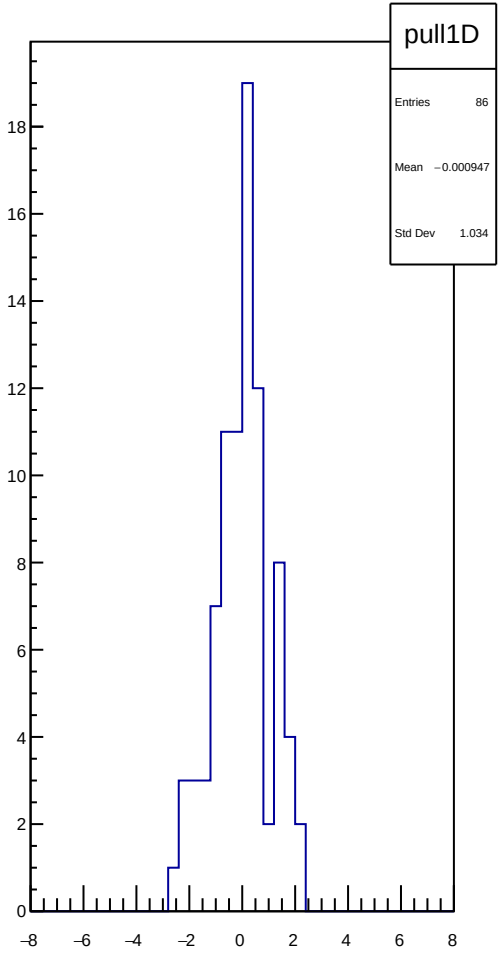
asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run

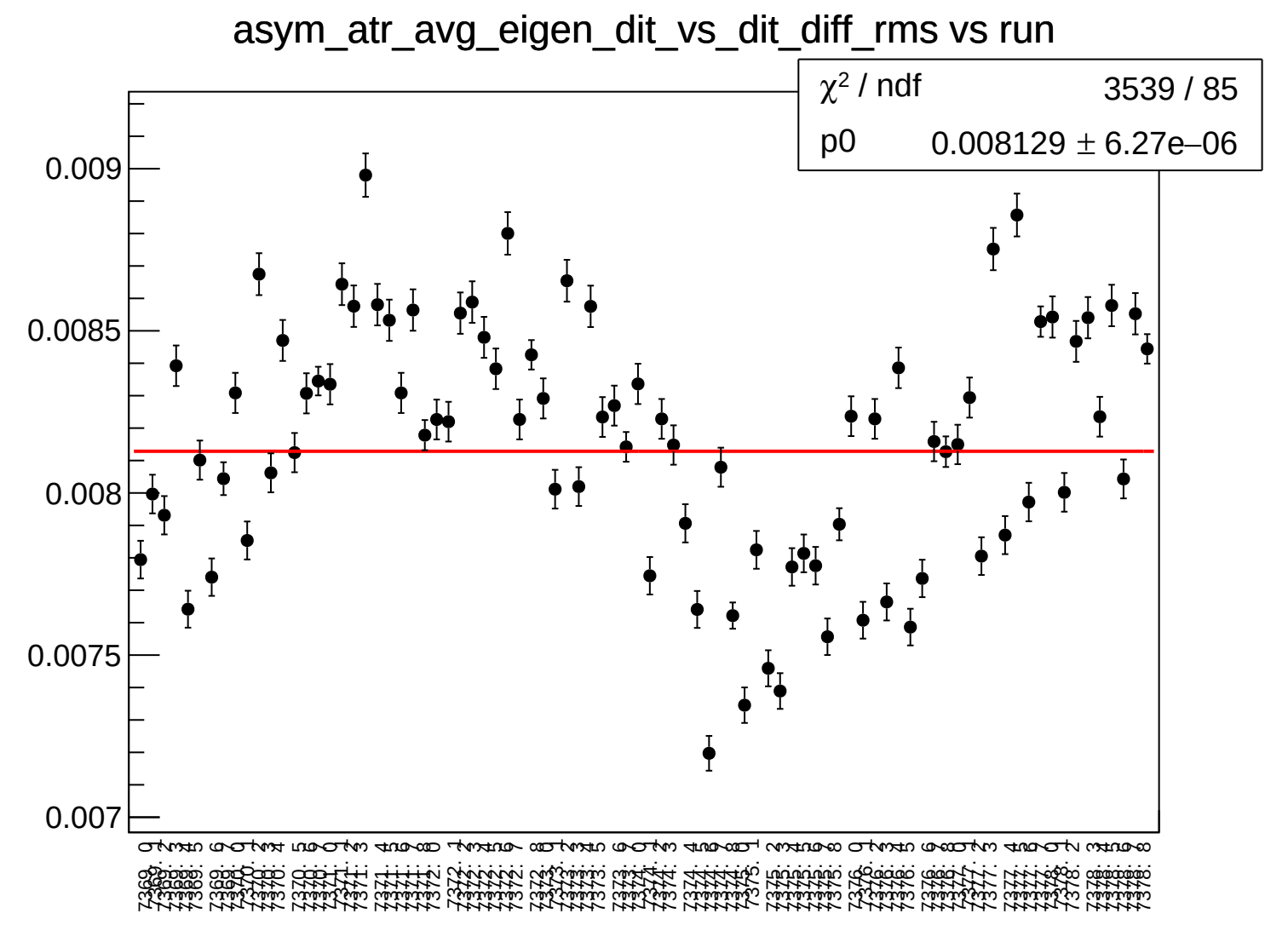


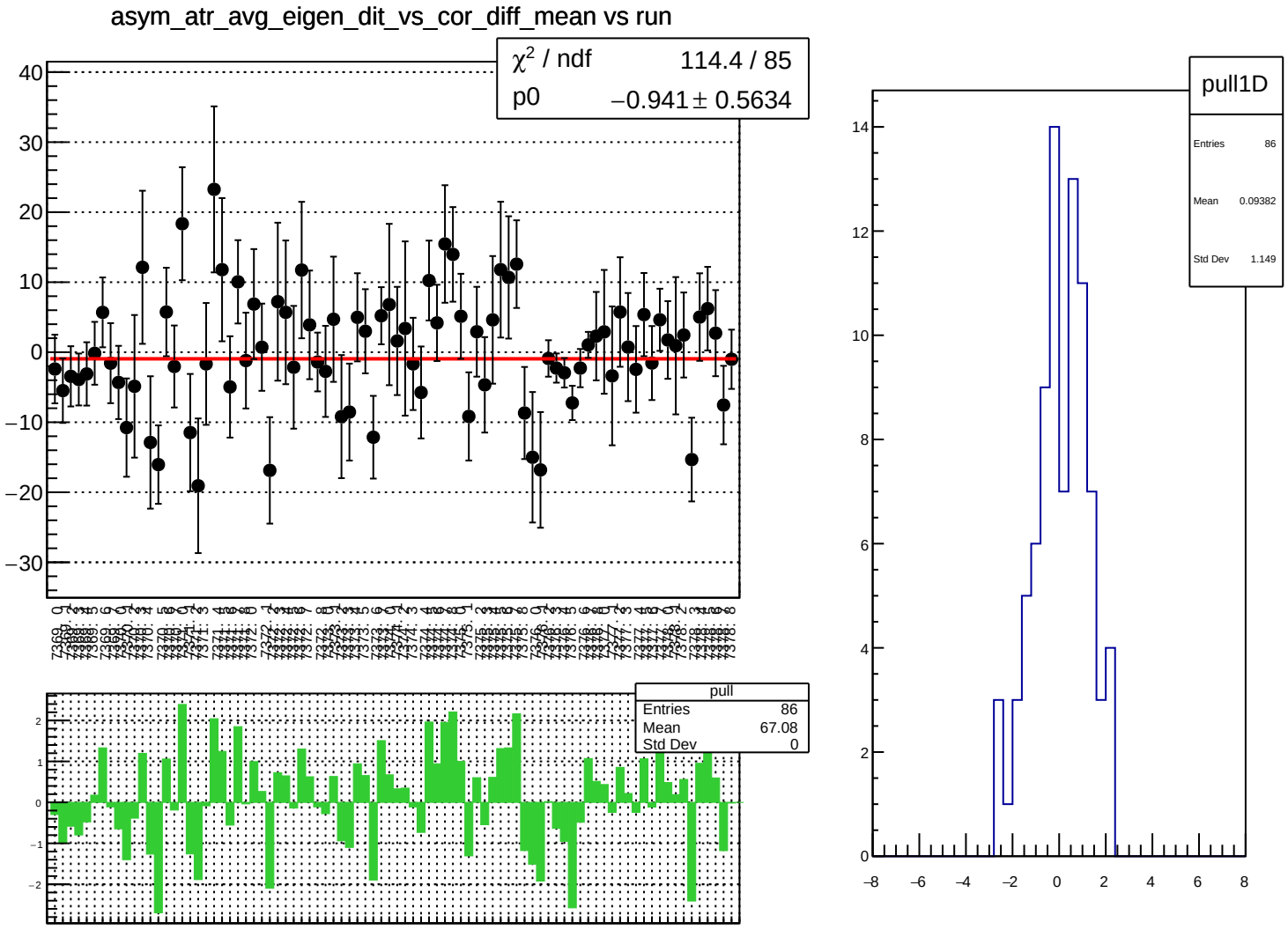


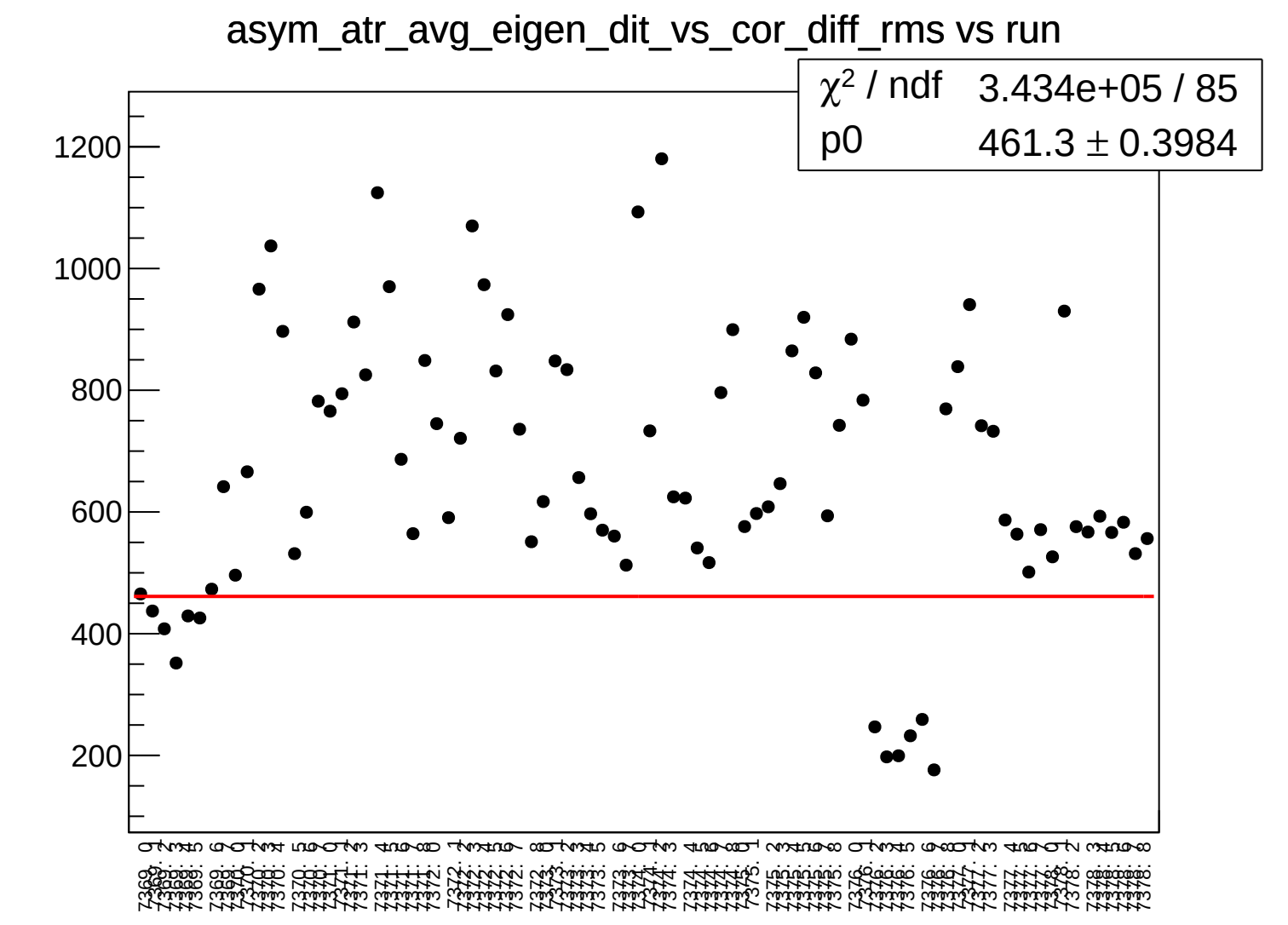

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.434e+05 / 85
p0 461.3 ± 0.3984
1200
1000
800
600
400
200

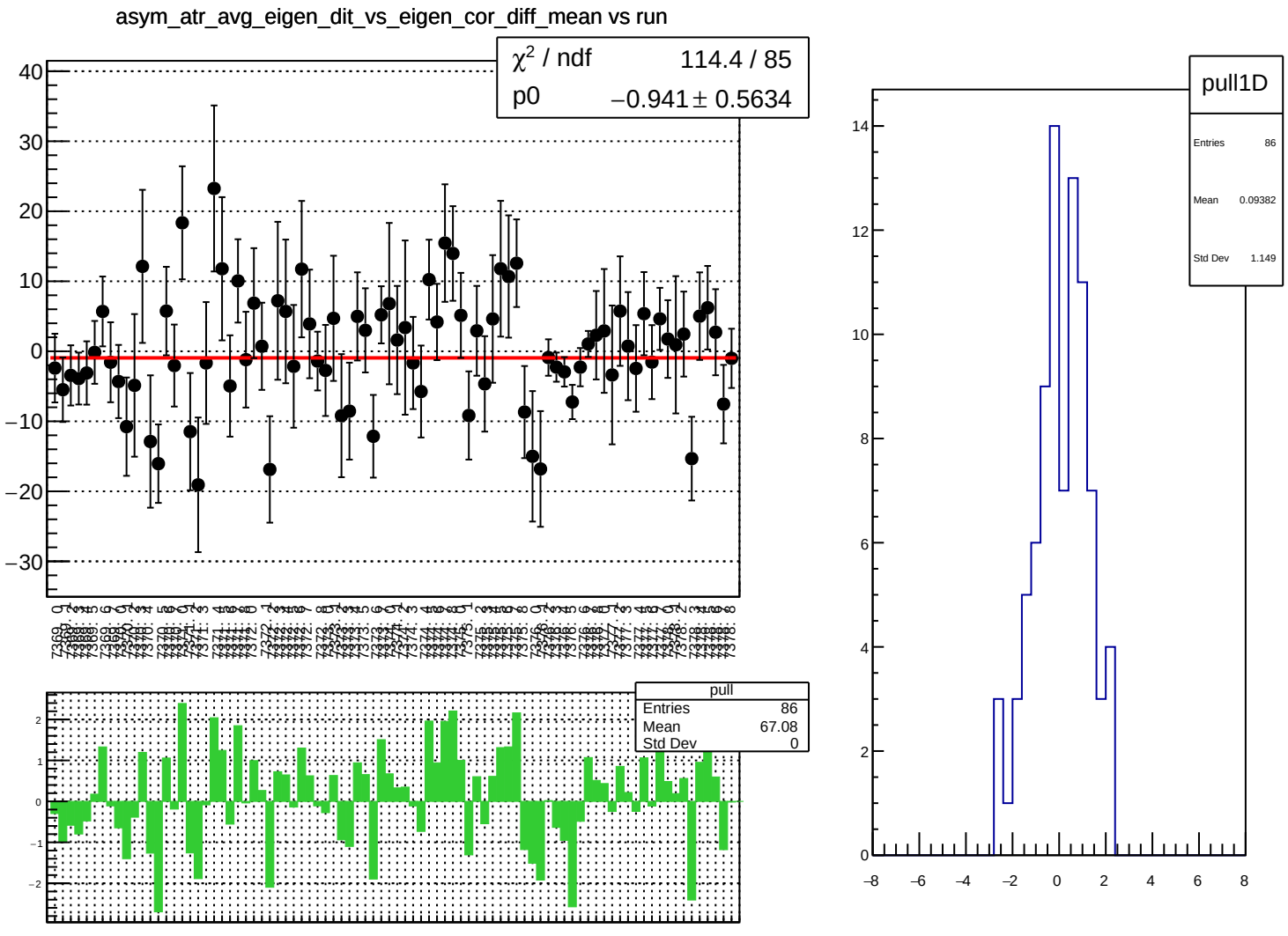

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 91.95 / 85
p0 −7.619e−06 ± 8.868e−06
pull
Entries 86
Mean 2131
Std Dev 0

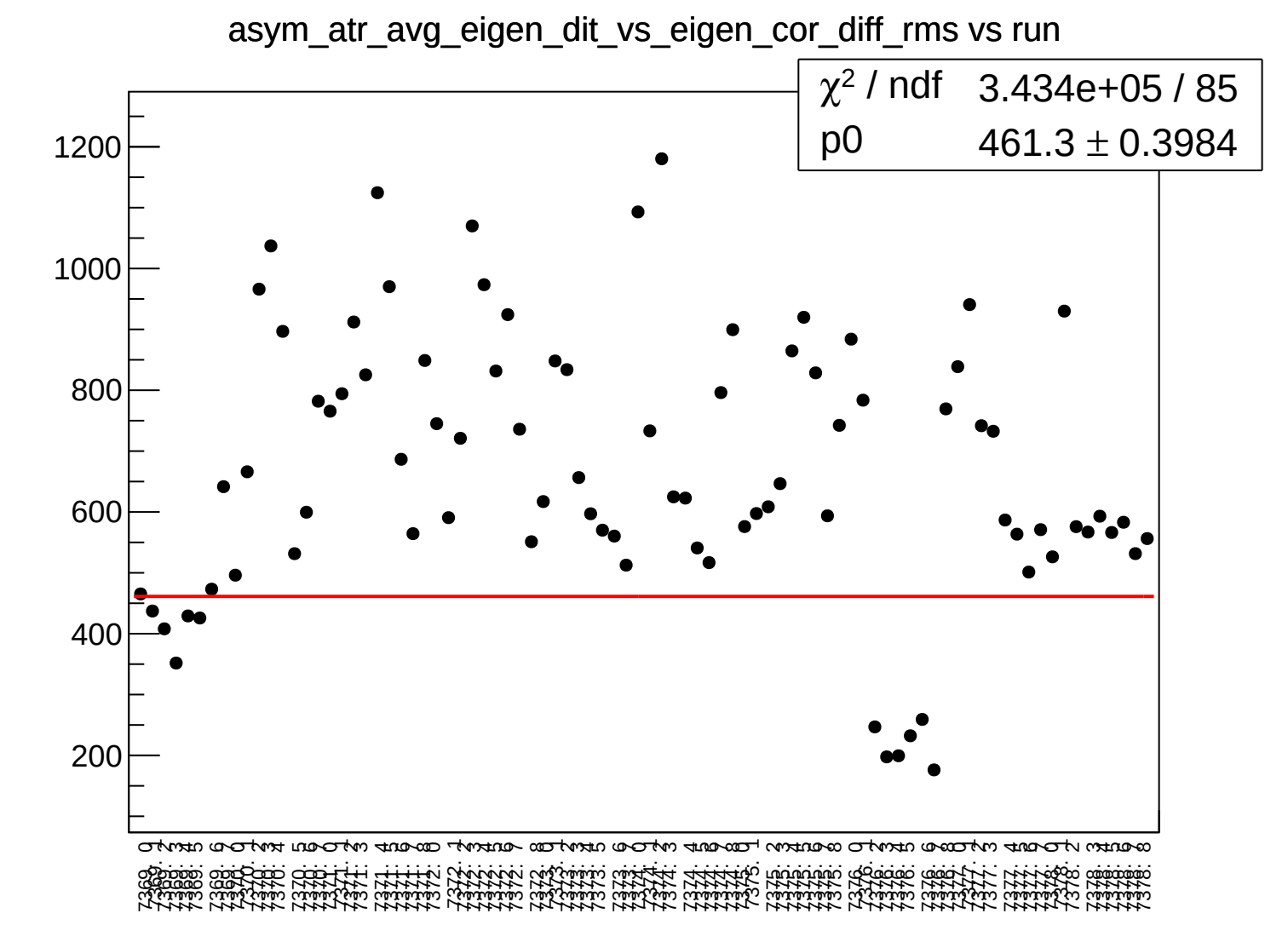

pull1D
Entries 86
Mean −0.000947
Std Dev 1.034

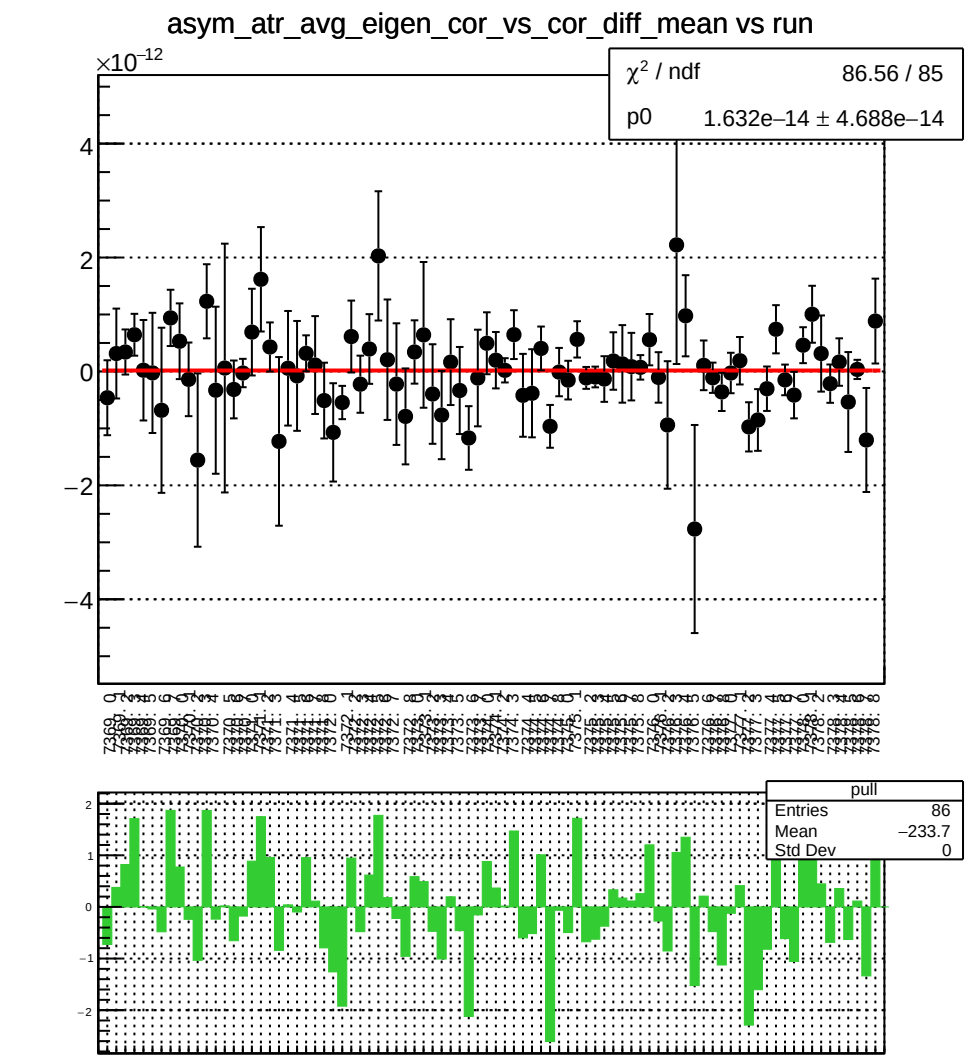

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3539 / 85
p0 0.008129 ± 6.27e–06
0.009
0.0085
0.008
0.0075
0.007

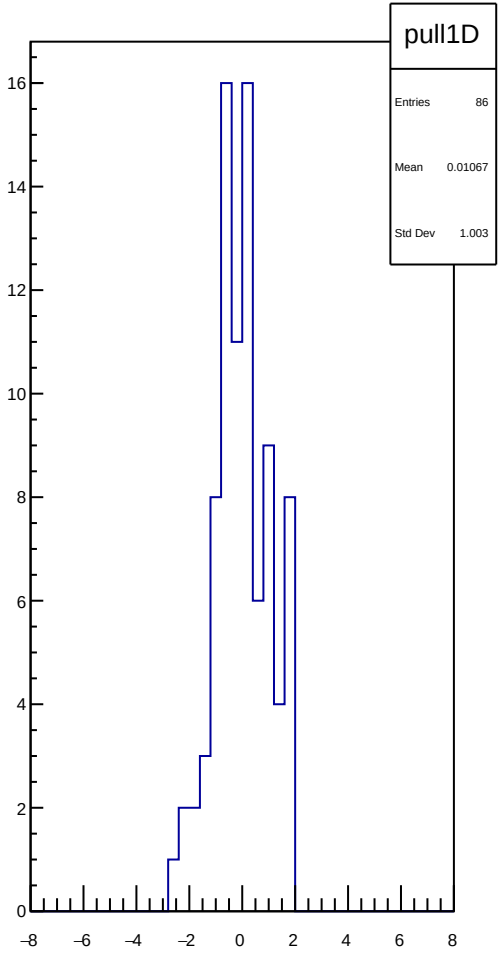

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.4 / 85
p0 −0.941 ± 0.5634
pull
Entries 86
Mean 67.08
Std Dev 0
pull1D
Entries 86
Mean 0.09382
Std Dev 1.149

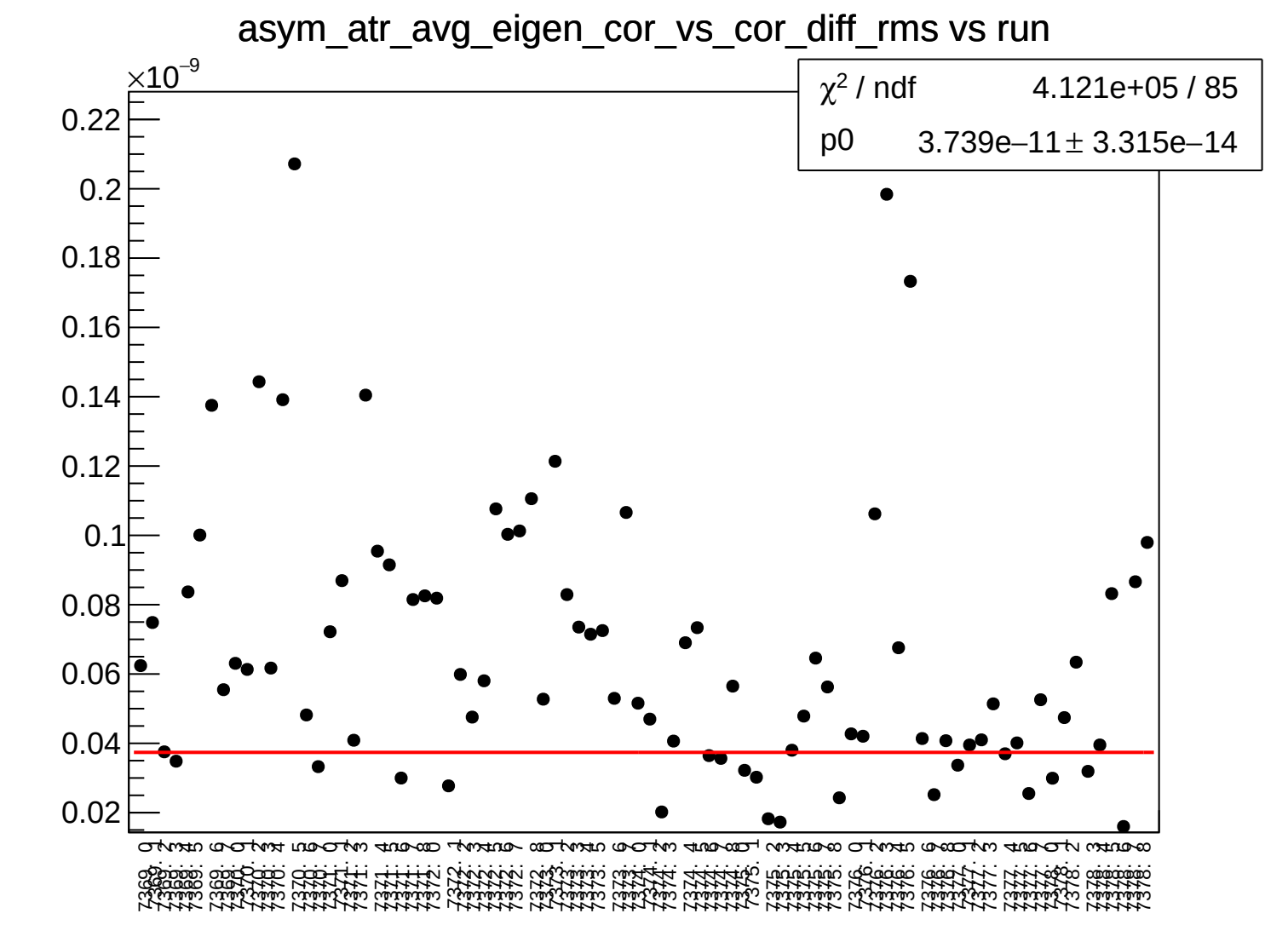

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.434e+05 / 85
p0 461.3 ± 0.3984
1200
1000
800
600
400
200

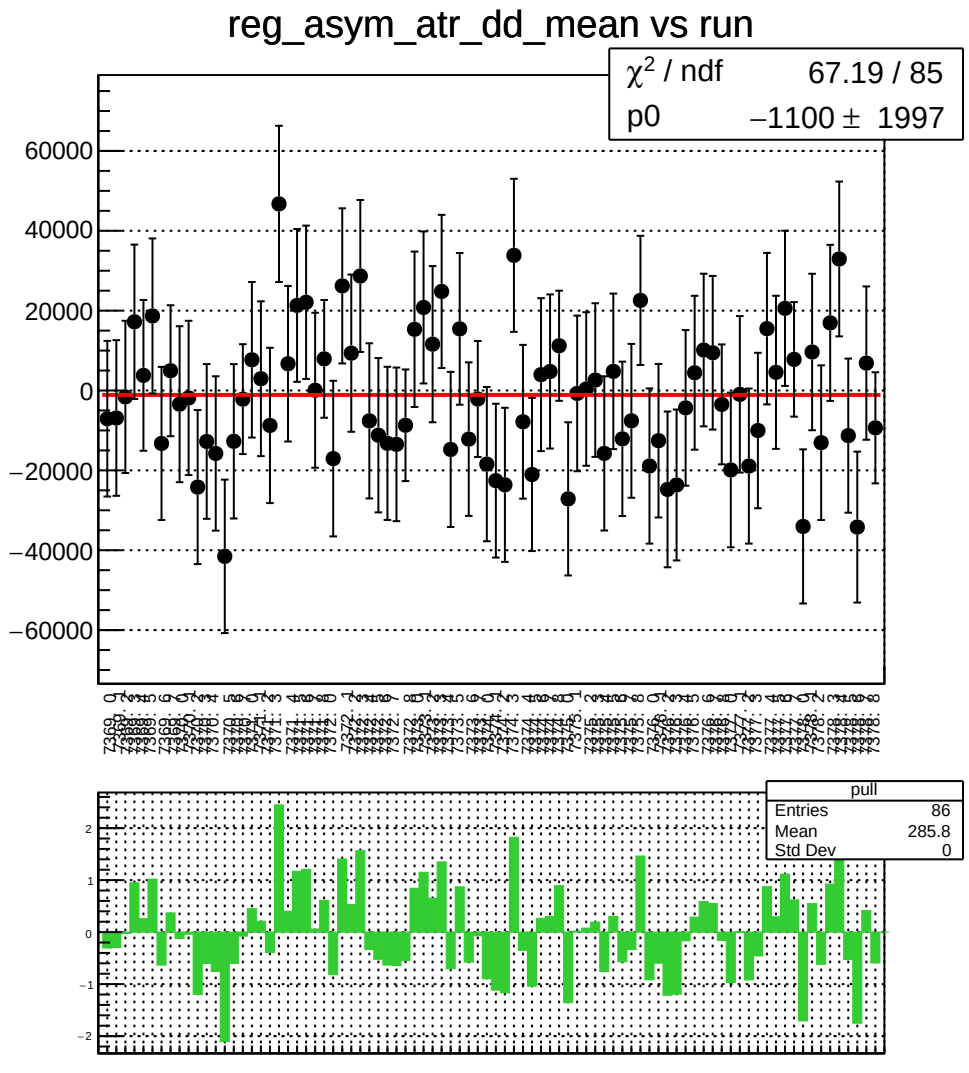

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.4 / 85
p0 −0.941 ± 0.5634
pull
Entries 86
Mean 67.08
Std Dev 0
pull1D
Entries 86
Mean 0.09382
Std Dev 1.149

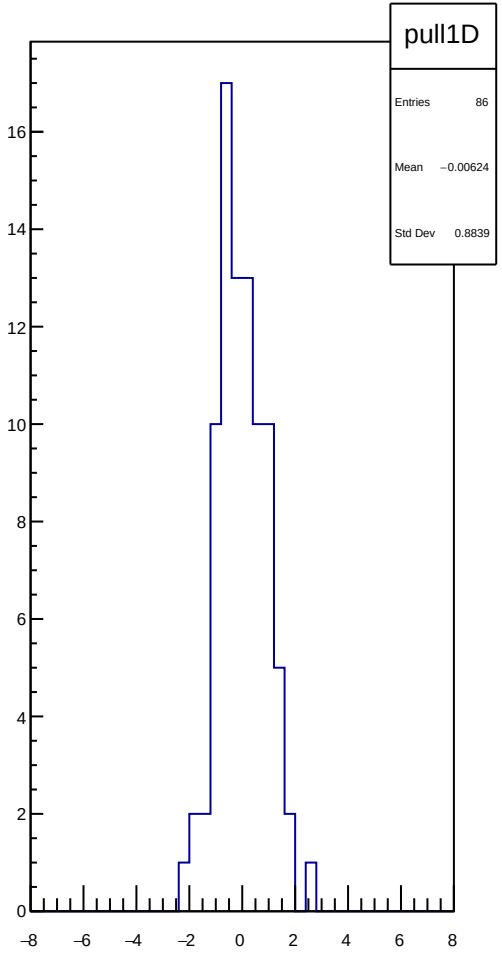

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.434e+05 / 85
p0 461.3 ± 0.3984
1200
1000
800
600
400
200

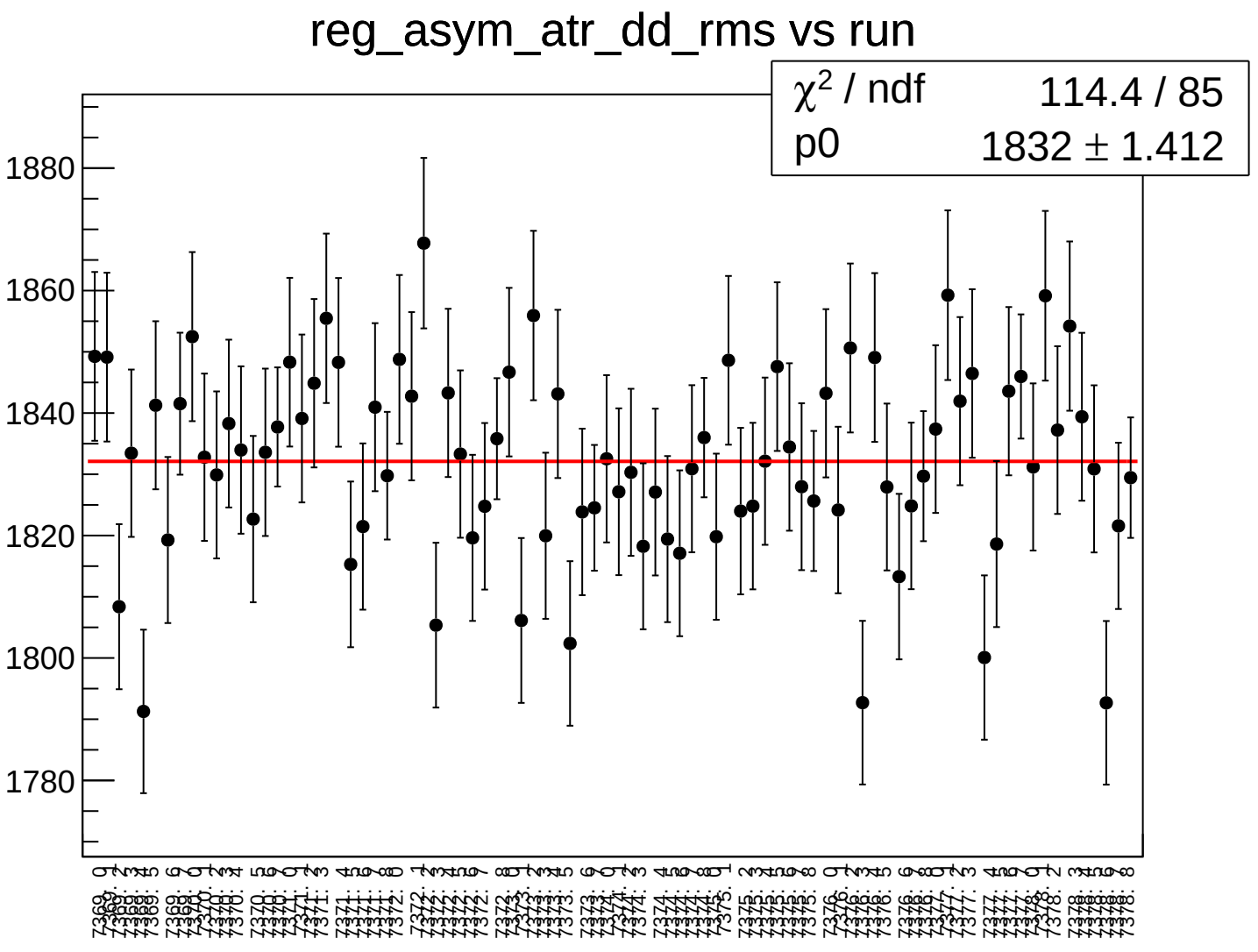

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.56 / 85
p0 1.632e−14 ± 4.688e−14
pull
Entries 86
Mean −233.7
Std Dev 0

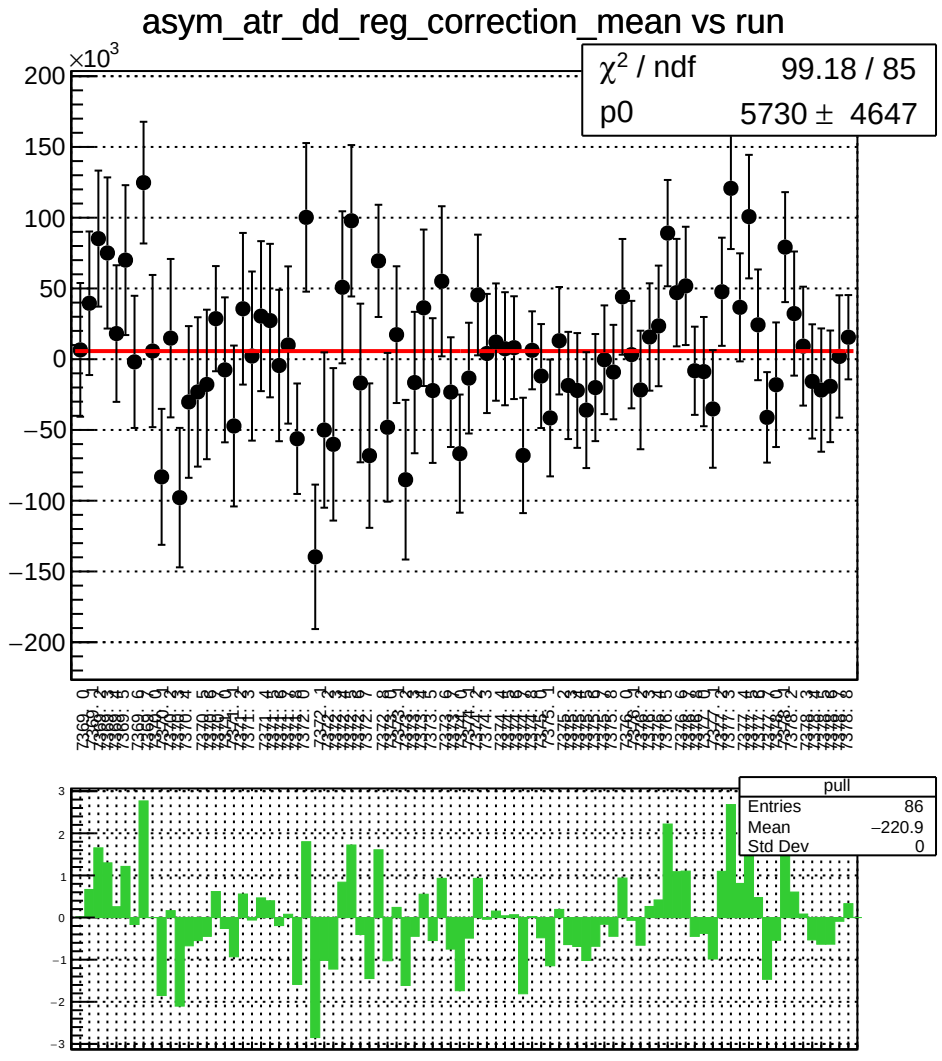

pull1D
Entries 86
Mean 0.01067
Std Dev 1.003

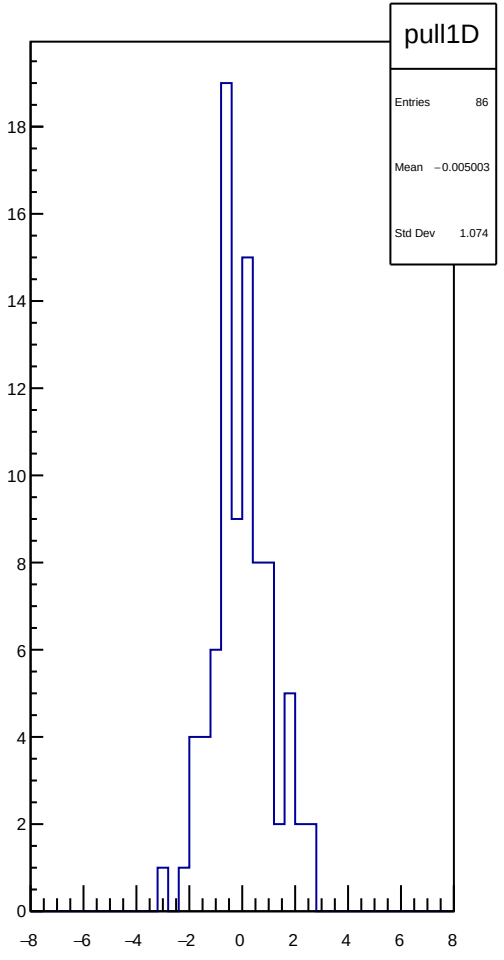

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.121e+05 / 85
p0 3.739e−11 ± 3.315e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

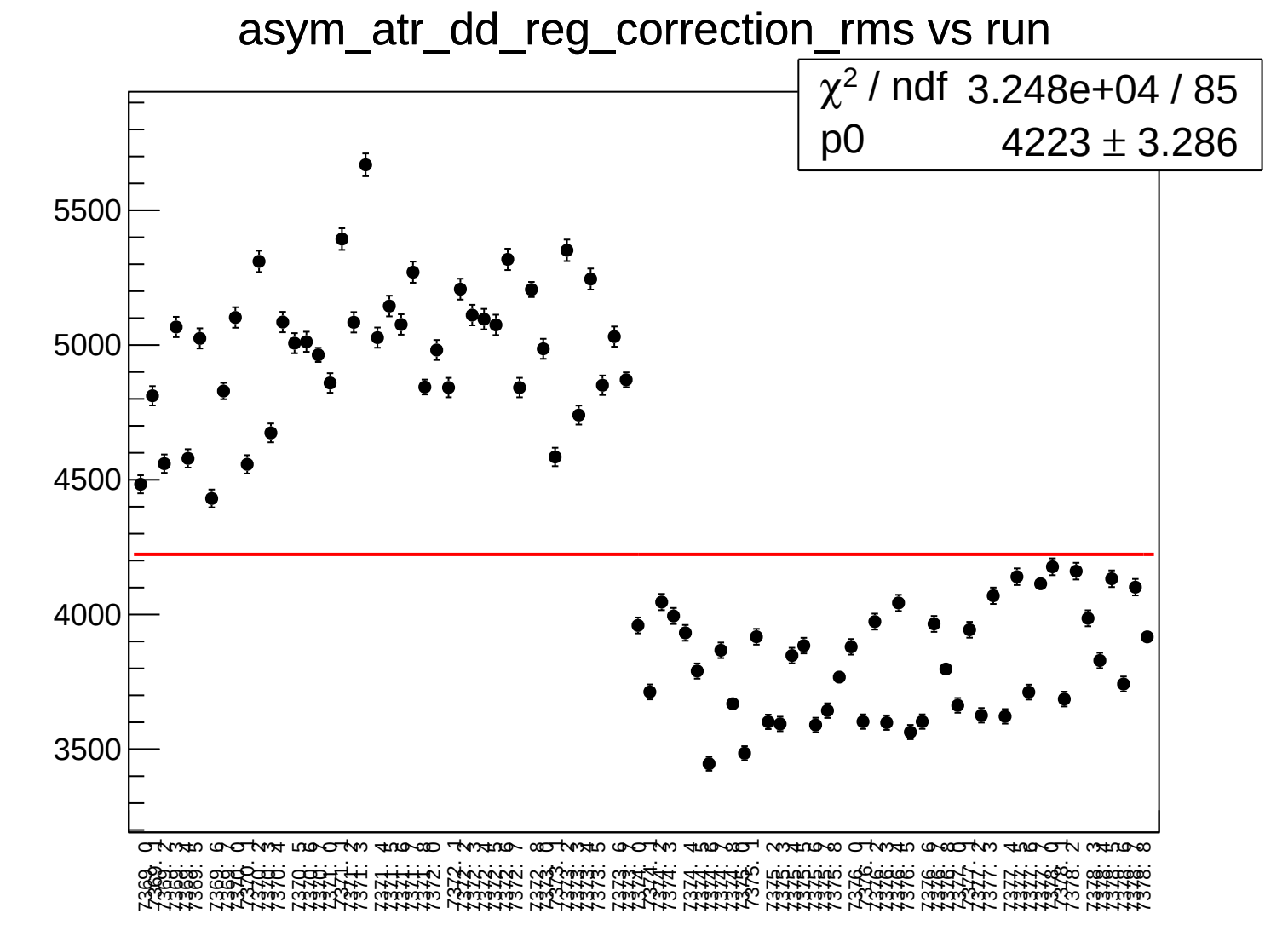

reg_asym_atr_dd_mean vs run
χ² / ndf 67.19 / 85
p0 −1100 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 285.8
Std Dev 0
2
1
0
−1
−2

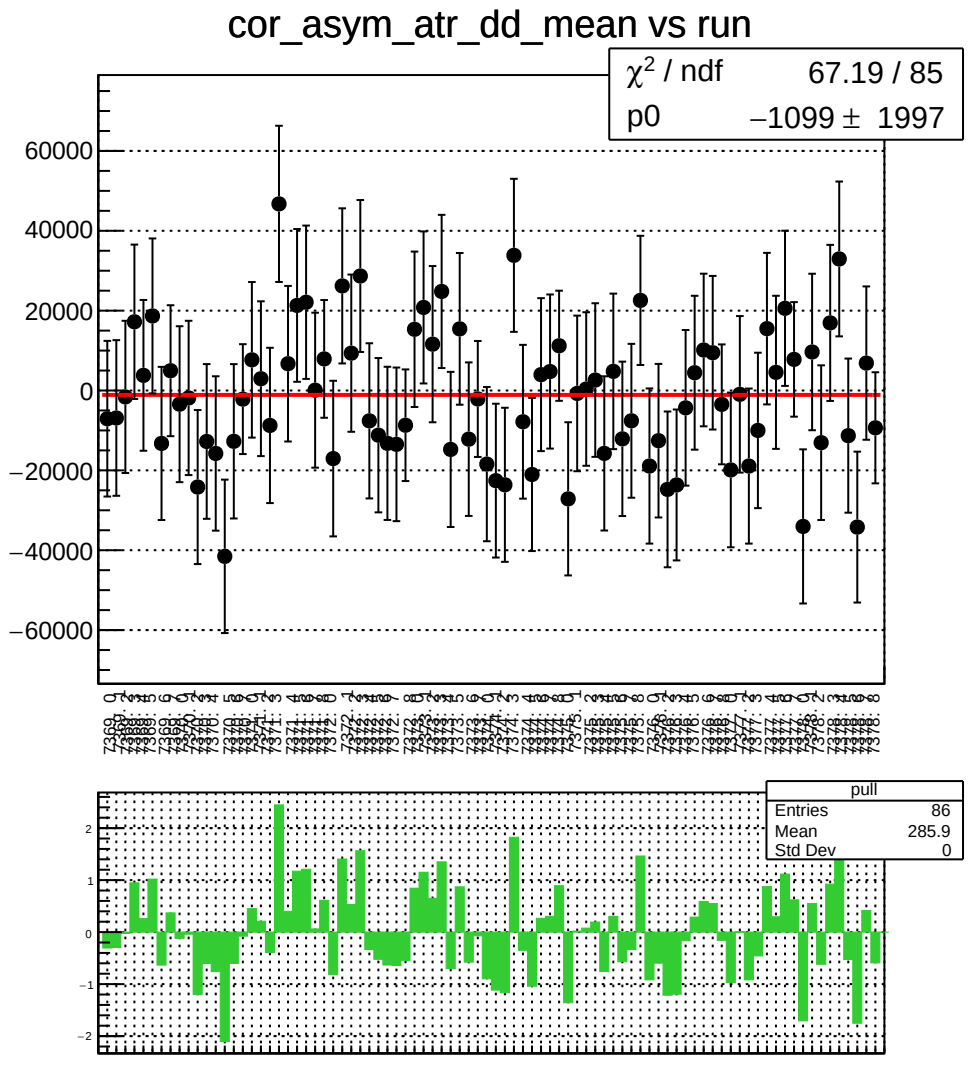

pull1D
Entries 86
Mean −0.00624
Std Dev 0.8839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

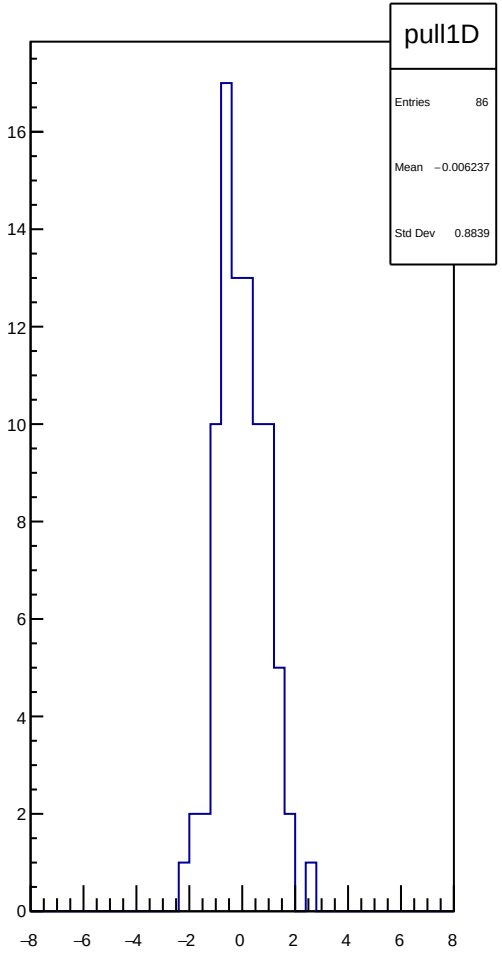

reg_asym_atr_dd_rms vs run
χ² / ndf 114.4 / 85
p0 1832 ± 1.412
1880
1860
1840
1820
1800
1780

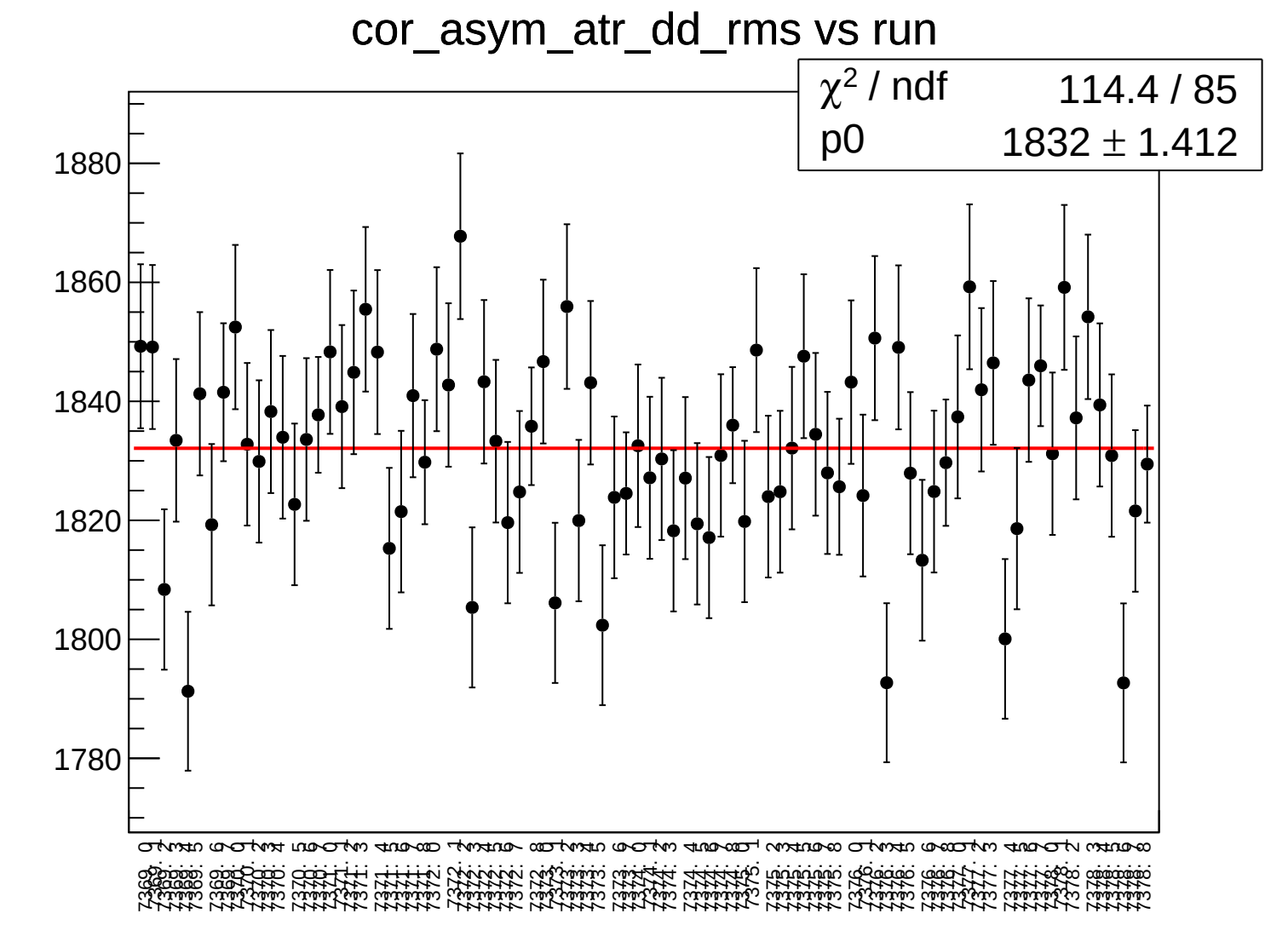

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 99.18 / 85
p0 5730 ± 4647
pull
Entries 86
Mean −220.9
Std Dev 0

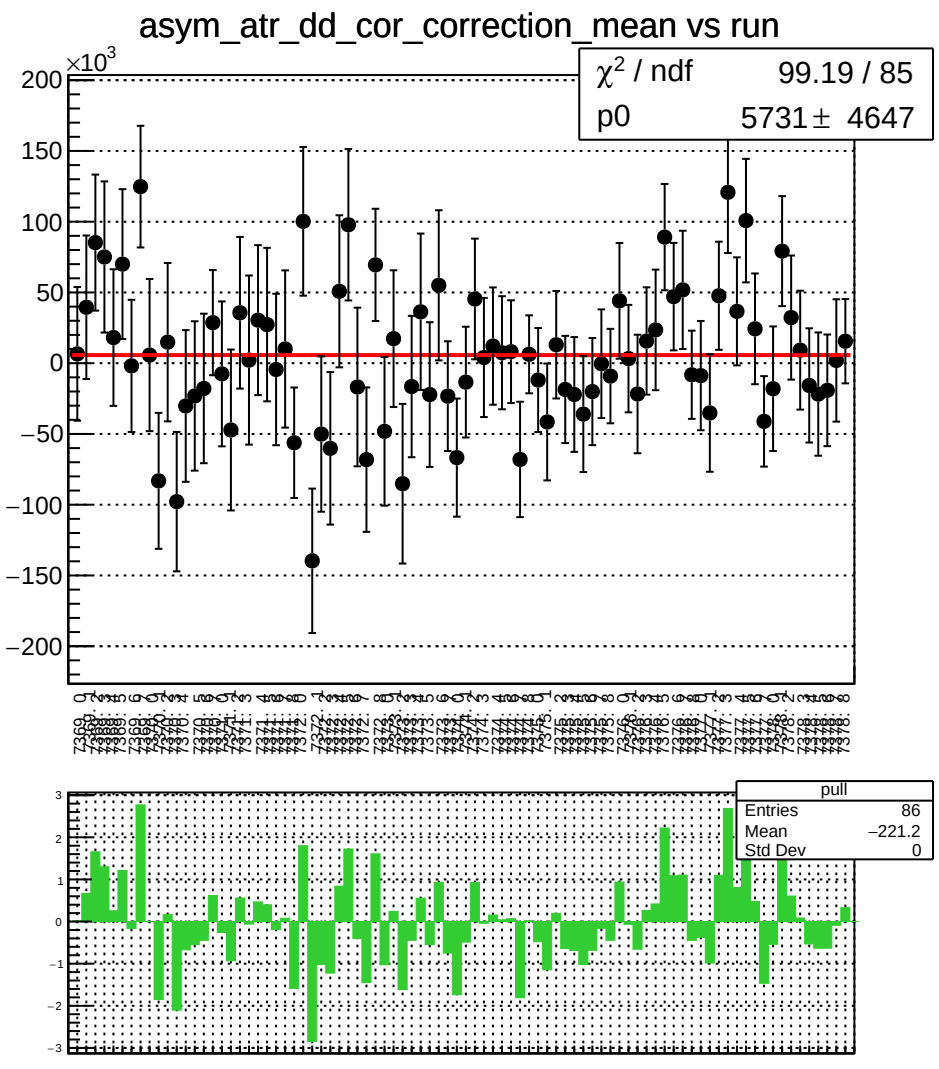

pull1D
Entries 86
Mean −0.005003
Std Dev 1.074

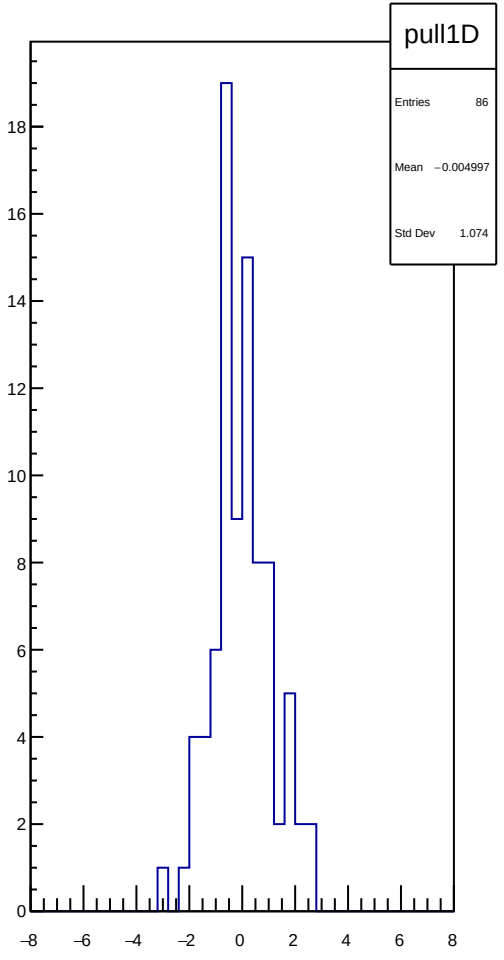

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3.248e+04 / 85
p0 4223 ± 3.286
5500
5000
4500
4000
3500

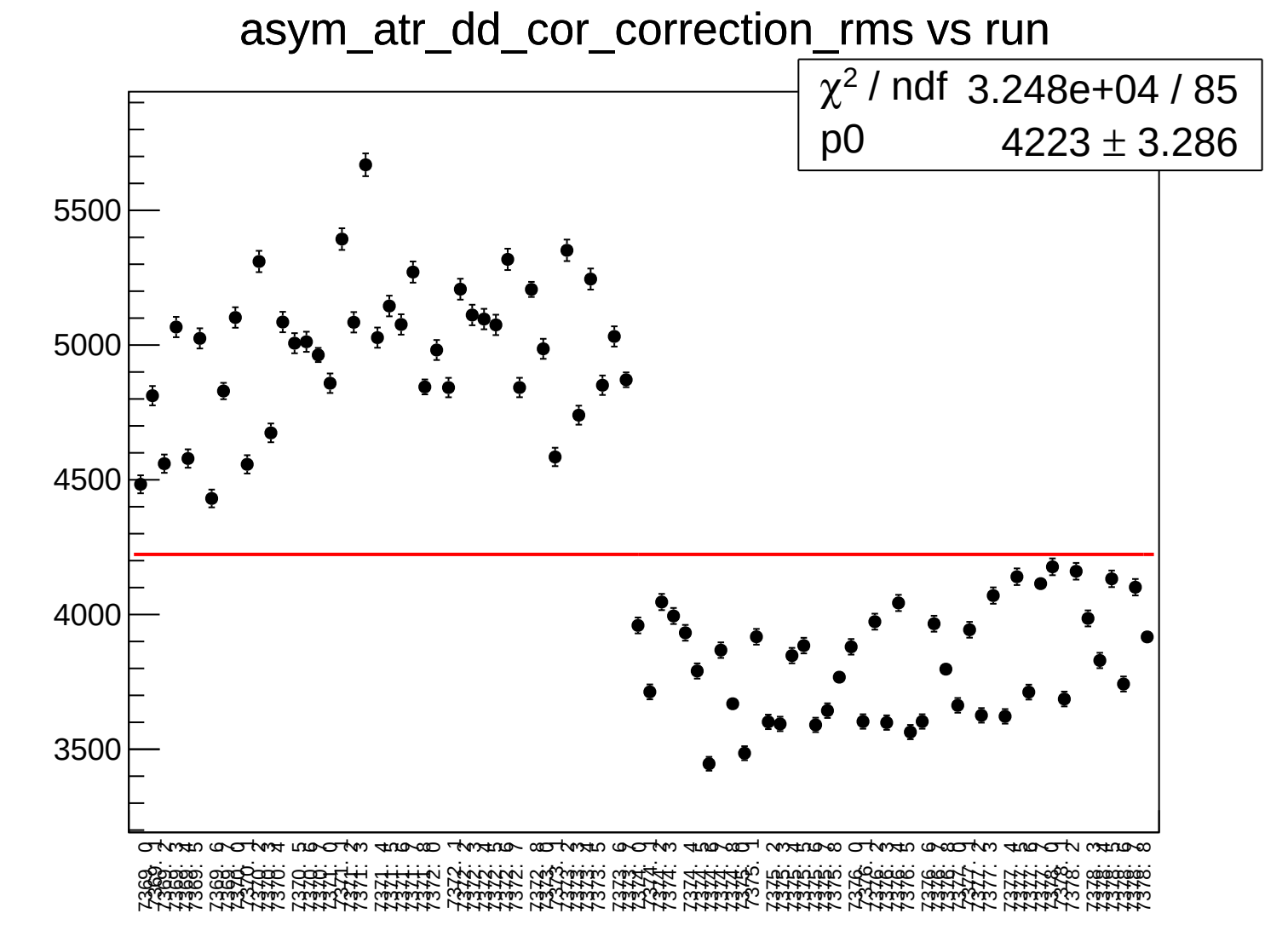

cor_asym_atr_dd_mean vs run
χ² / ndf 67.19 / 85
p0 −1099 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 285.9
Std Dev 0
2
1
0
−1
−2

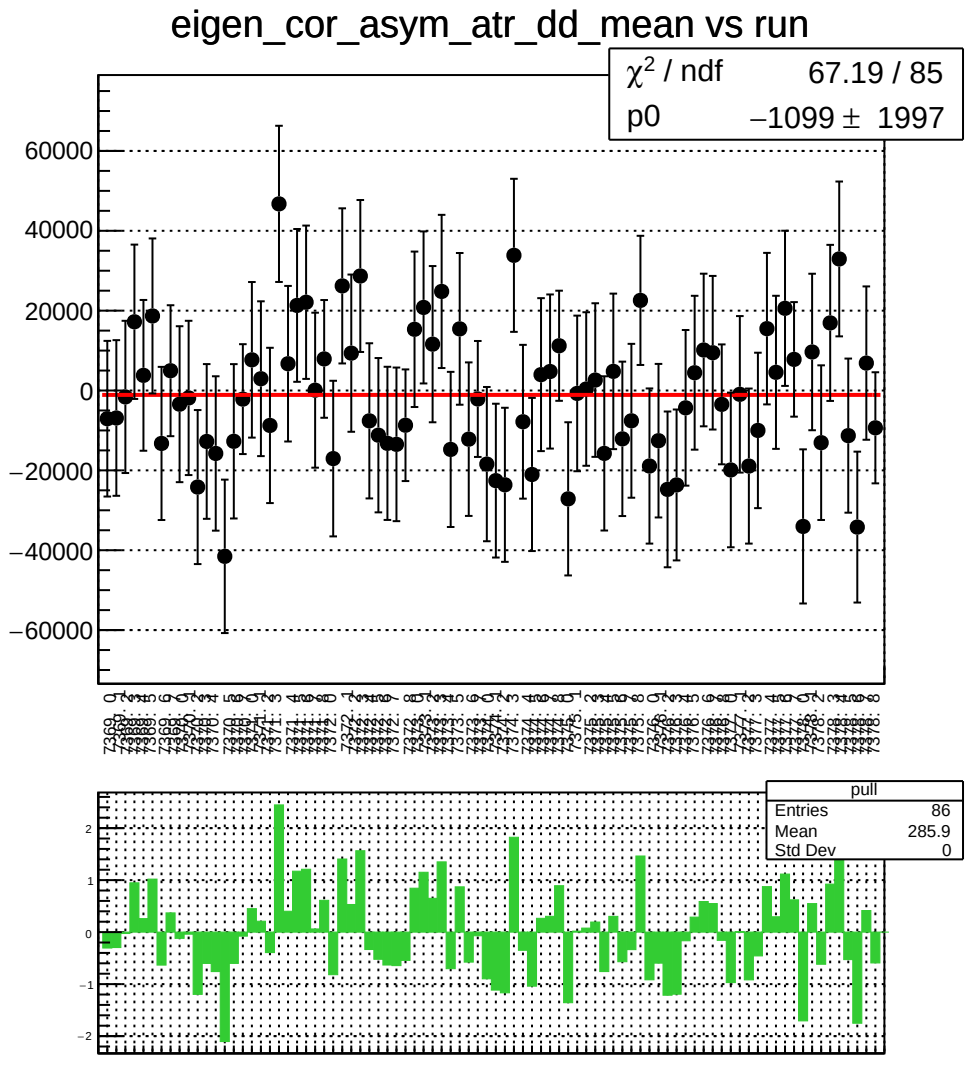

pull1D
Entries 86
Mean −0.006237
Std Dev 0.8839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

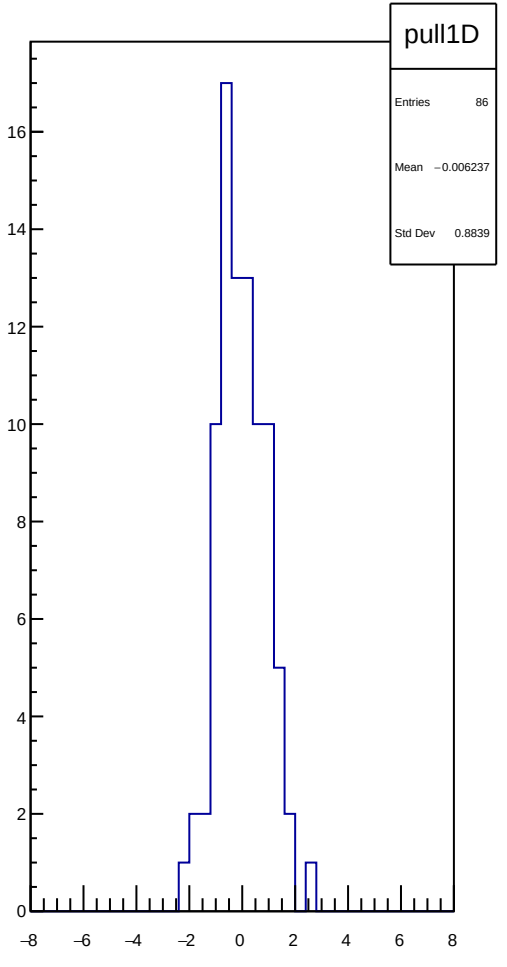

cor_asym_atr_dd_rms vs run
χ^2 / ndf 114.4 / 85
p0 1832 ± 1.412
1880
1860
1840
1820
1800
1780

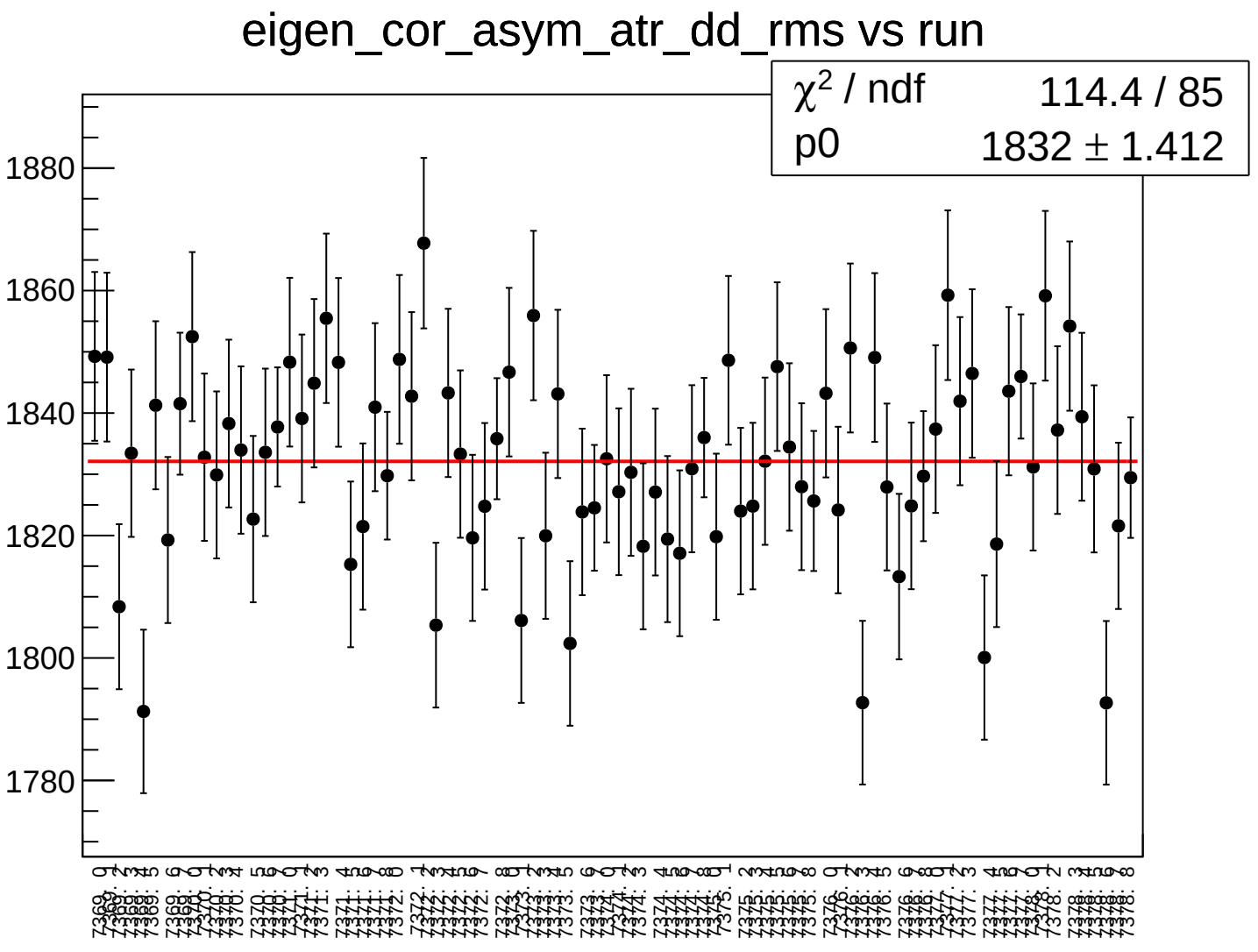

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 99.19 / 85
p0 5731 ± 4647
×10³
pull
Entries 86
Mean −221.2
Std Dev 0

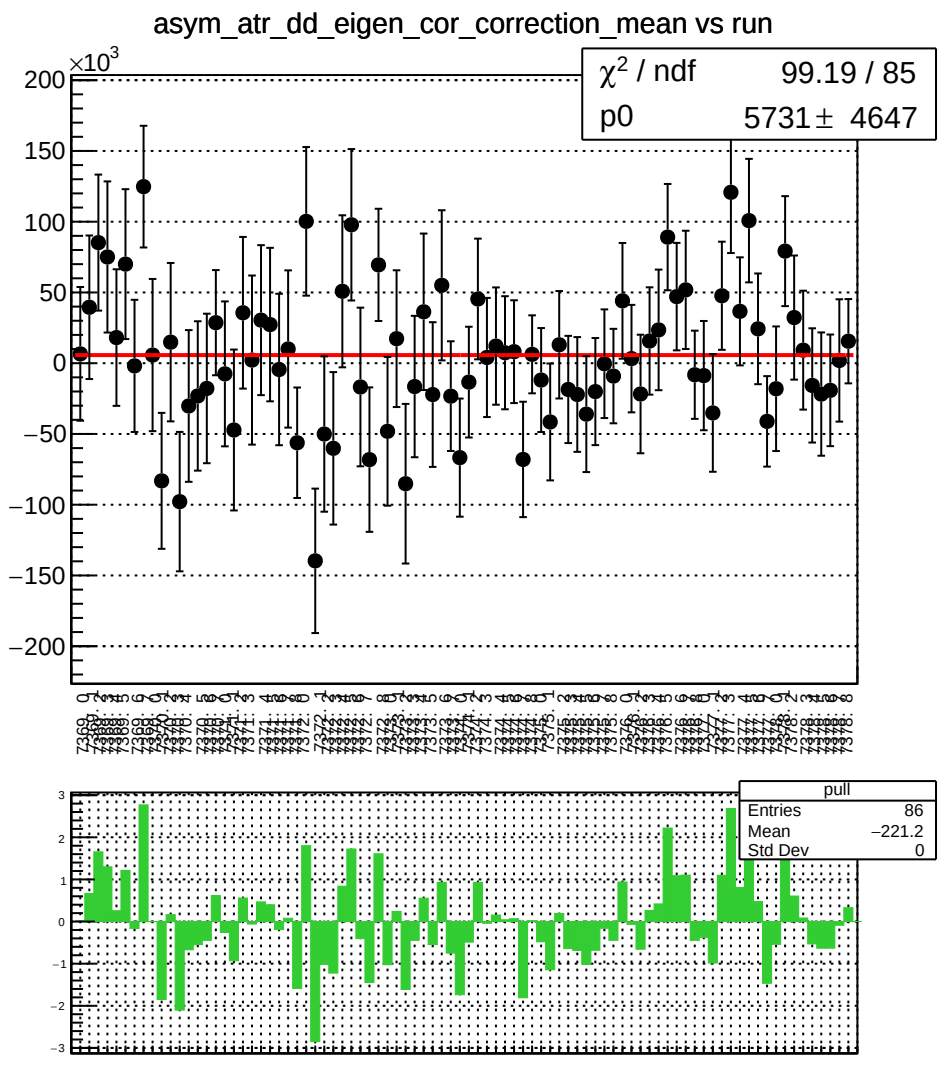

pull1D
Entries 86
Mean −0.004997
Std Dev 1.074

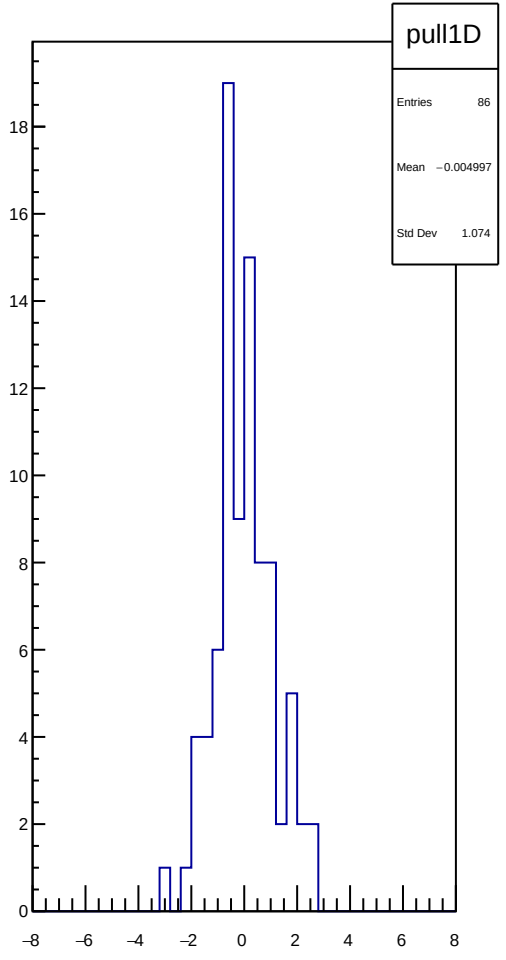

asym_atr_dd_cor_correction_rms vs run
χ^2 / ndf 3.248e+04 / 85
p0 4223 ± 3.286
5500
5000
4500
4000
3500

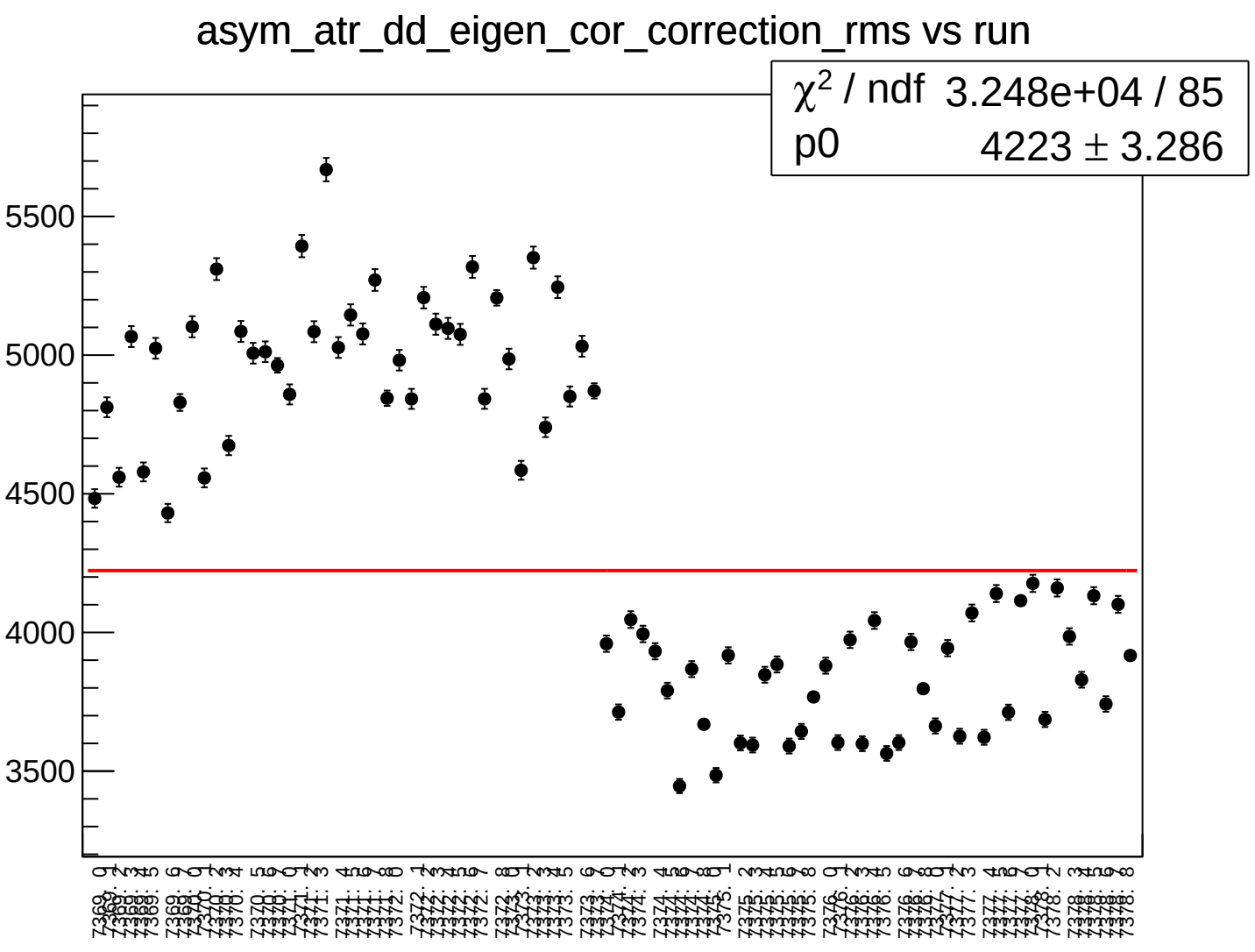

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 67.19 / 85
p0 −1099 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 285.9
Std Dev 0
2
1
0
−1
−2

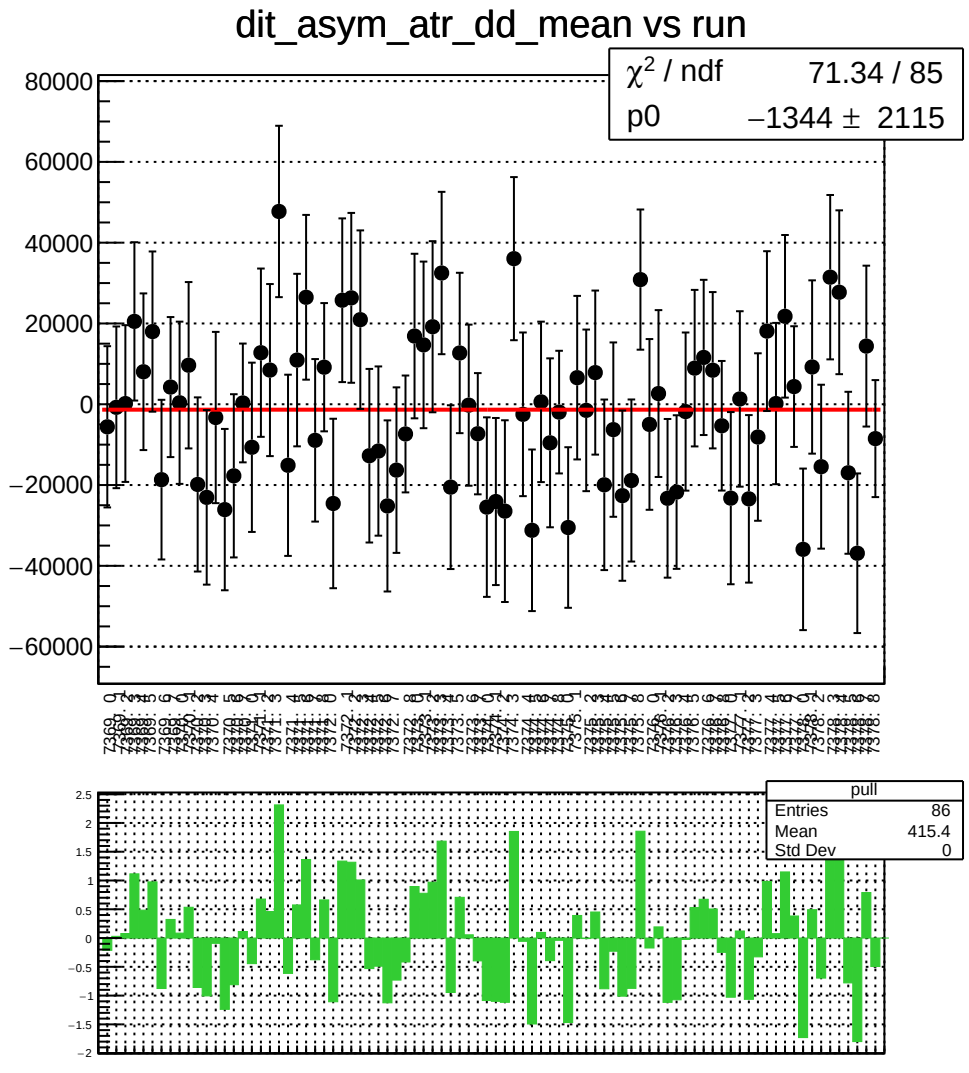

pull1D
Entries 86
Mean −0.006237
Std Dev 0.8839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

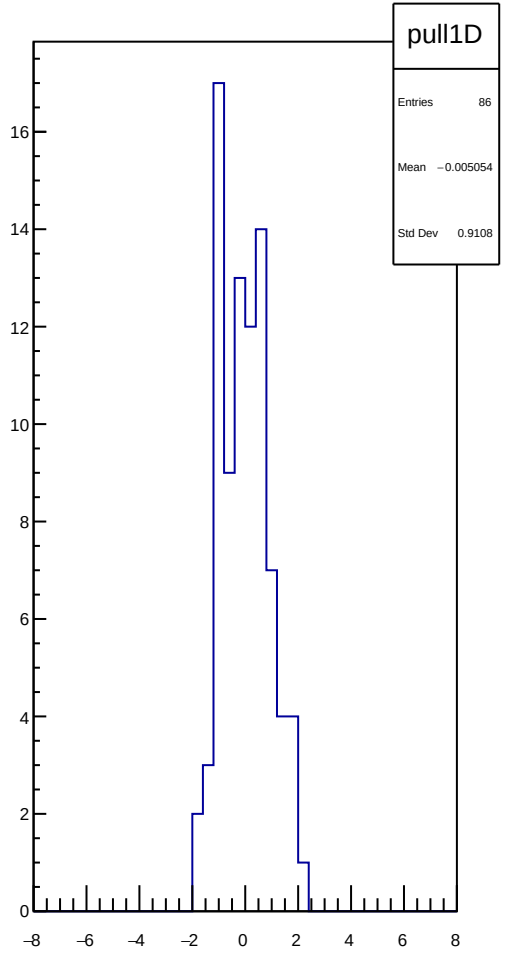

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 114.4 / 85
p0 1832 ± 1.412
1880
1860
1840
1820
1800
1780

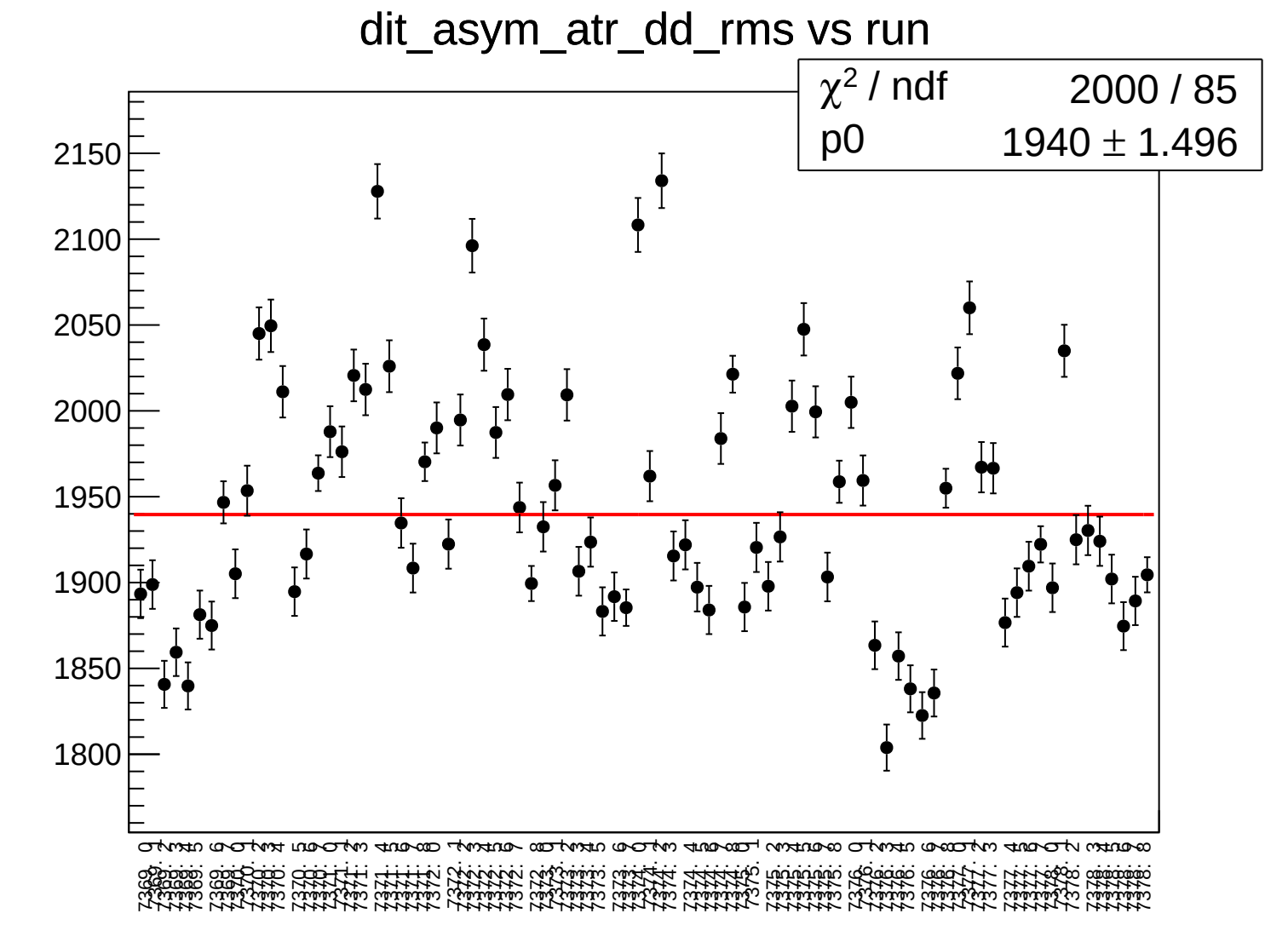

asym_atr_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.19 / 85
p0 5731 ± 4647
pull
Entries 86
Mean −221.2
Std Dev 0

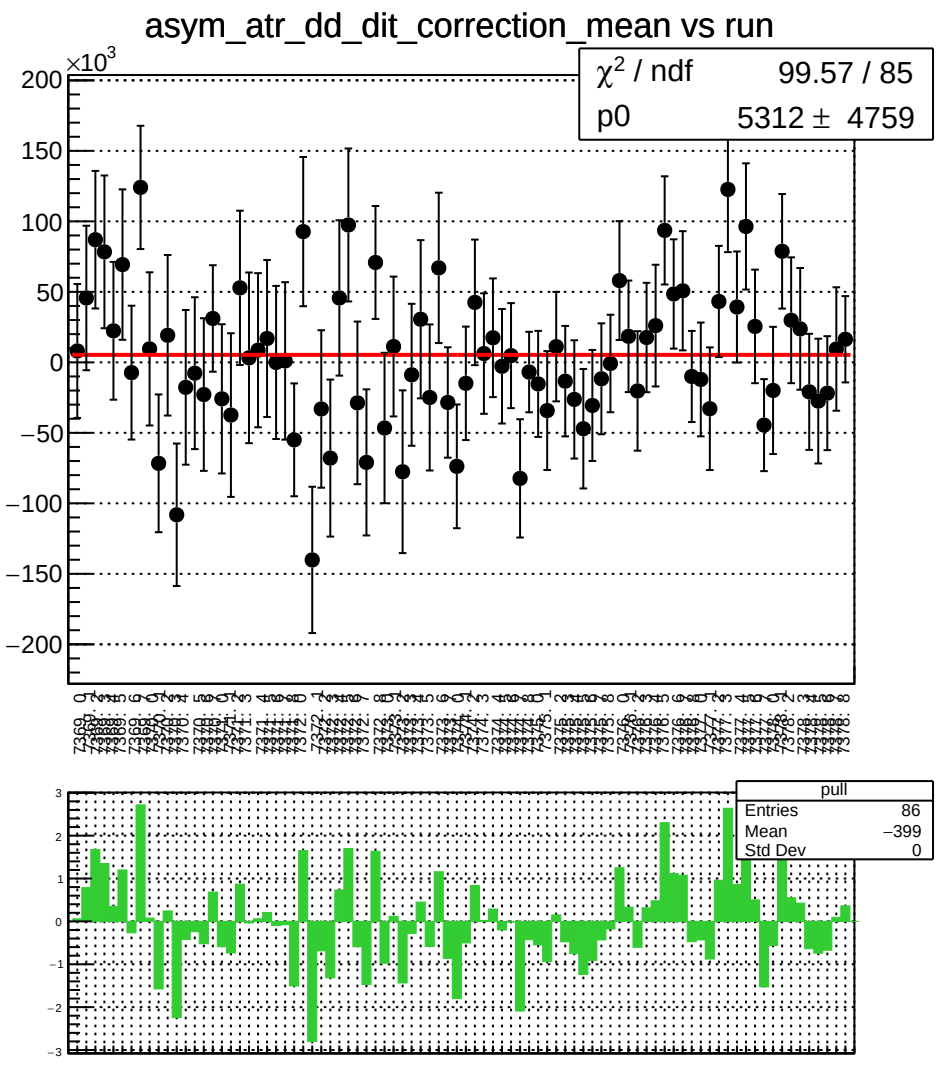

pull1D
Entries 86
Mean −0.004997
Std Dev 1.074

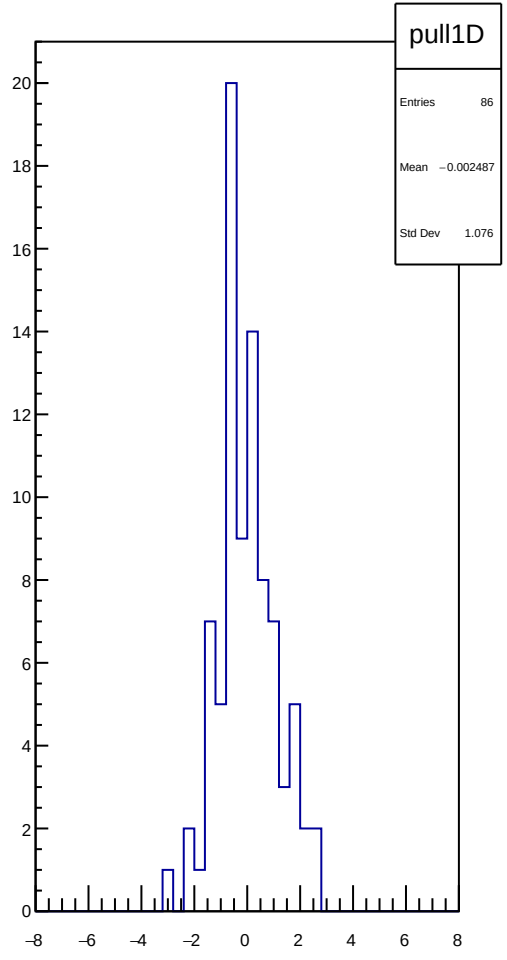

asym_atr_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 3.248e+04 / 85
p0 4223 ± 3.286
5500
5000
4500
4000
3500

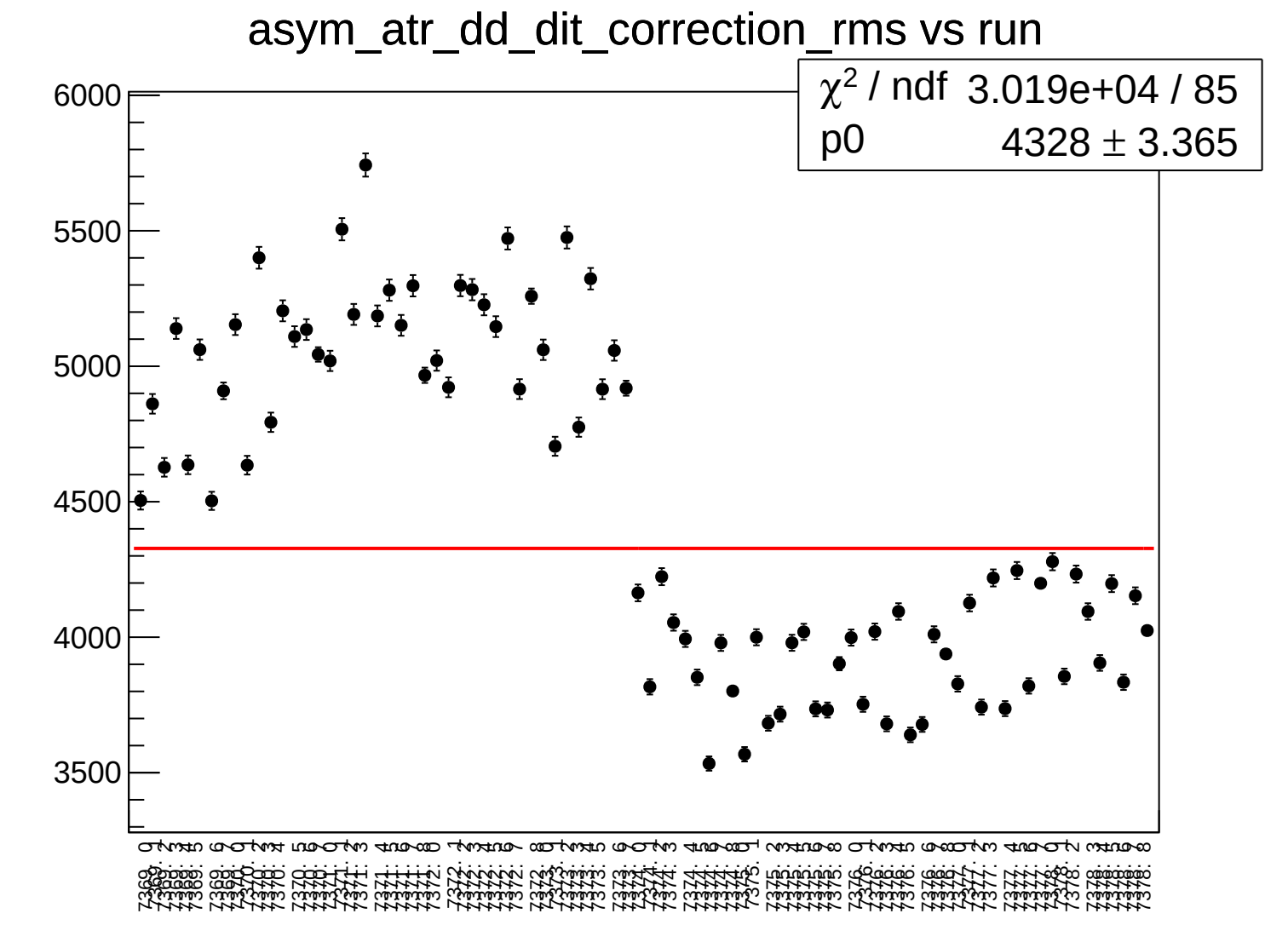

dit_asym_atr_dd_mean vs run
χ² / ndf 71.34 / 85
p0 −1344 ± 2115
pull
Entries 86
Mean 415.4
Std Dev 0

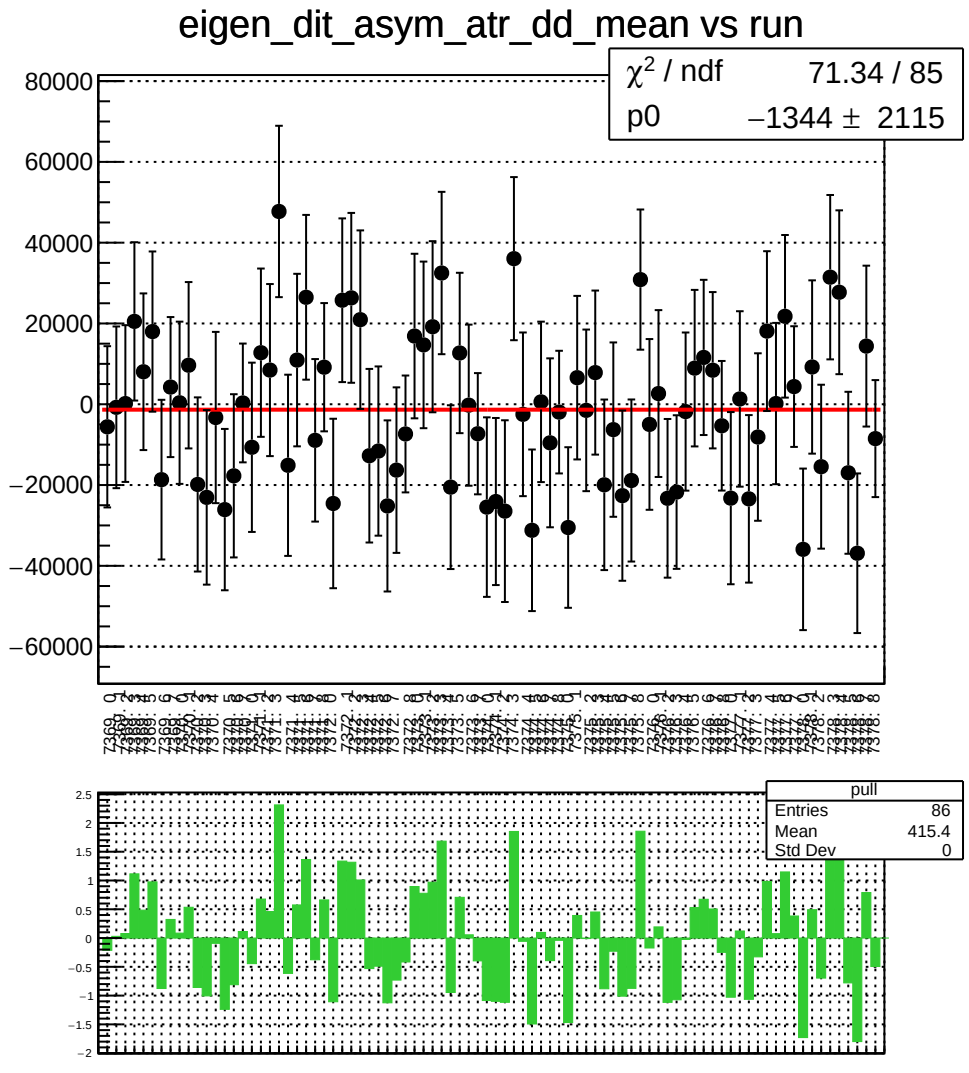

pull1D
Entries 86
Mean −0.005054
Std Dev 0.9108

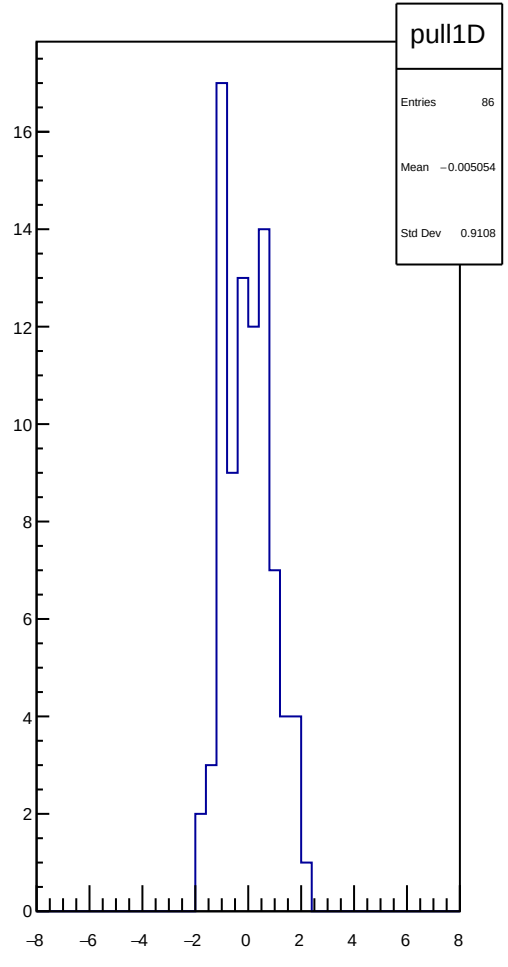

dit_asym_atr_dd_rms vs run
χ² / ndf 2000 / 85
p0 1940 ± 1.496
2150
2100
2050
2000
1950
1900
1850
1800

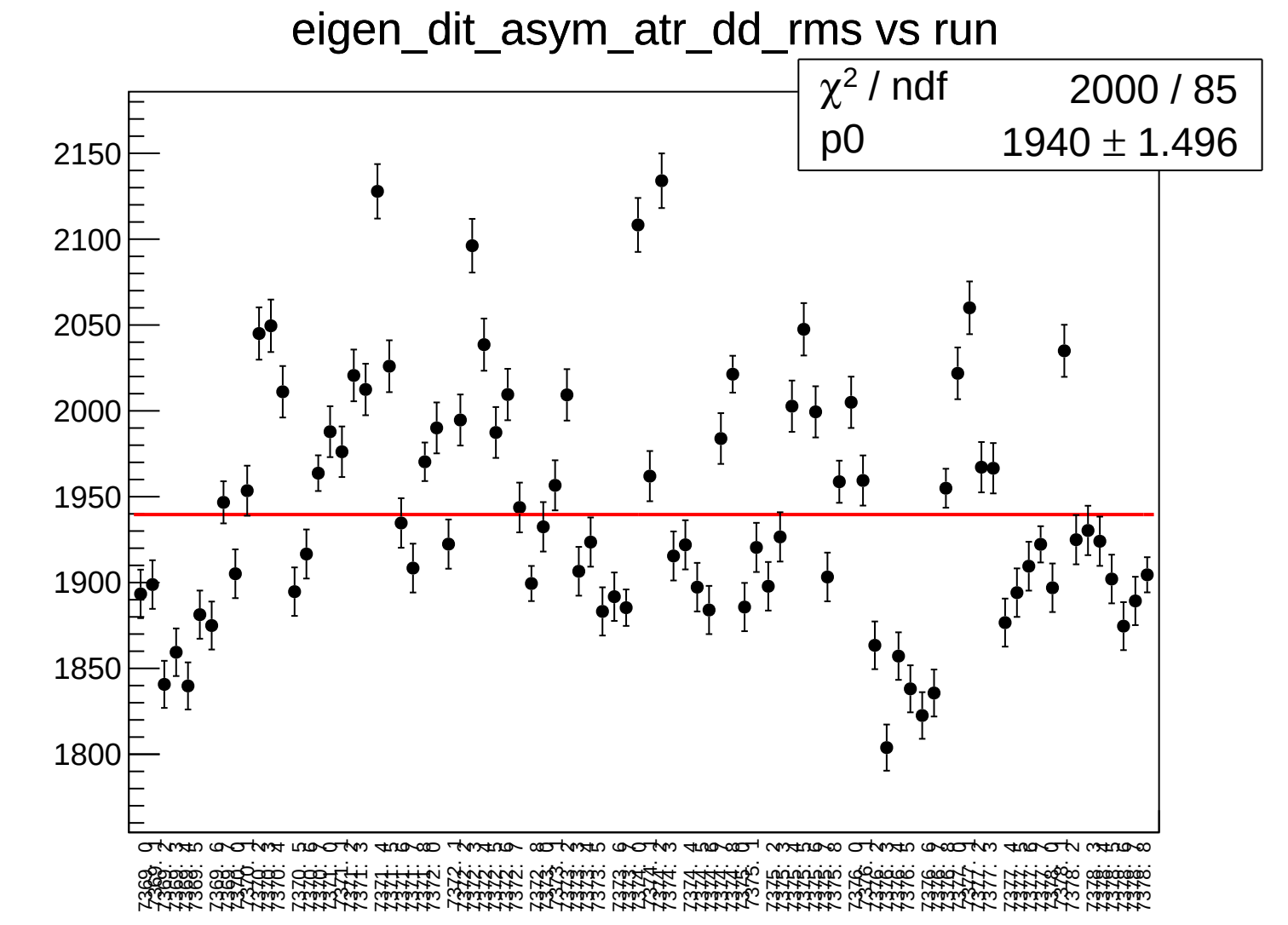

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 99.57 / 85
p0 5312 ± 4759
pull
Entries 86
Mean −399
Std Dev 0

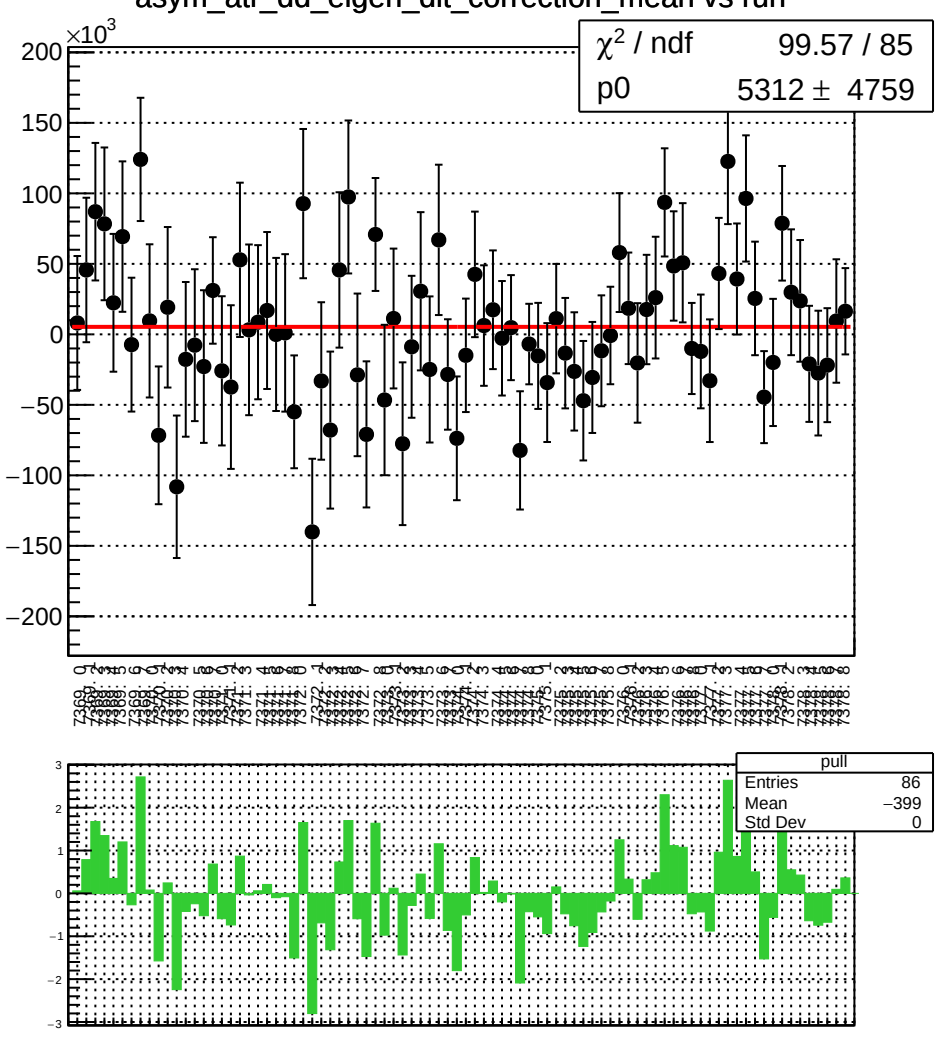

pull1D
Entries 86
Mean −0.002487
Std Dev 1.076

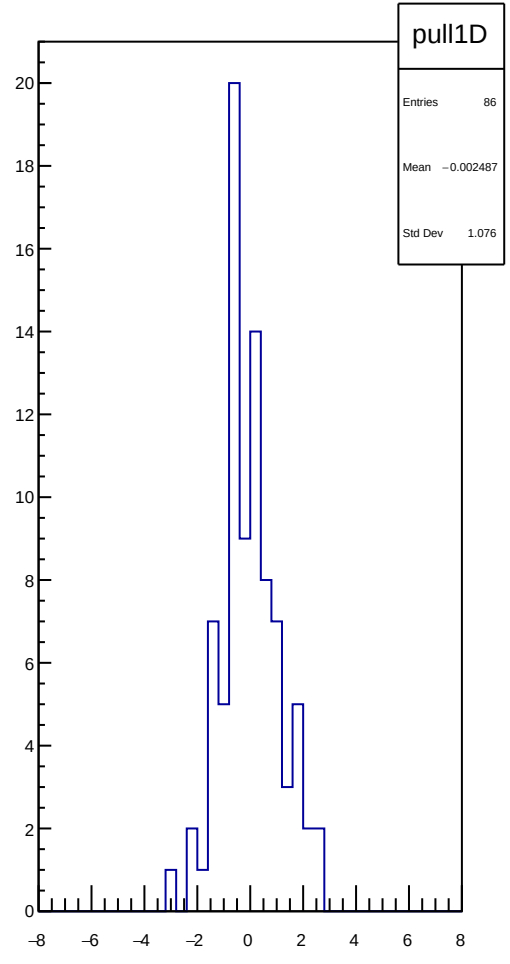

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 3.019e+04 / 85
p0 4328 ± 3.365
6000
5500
5000
4500
4000
3500

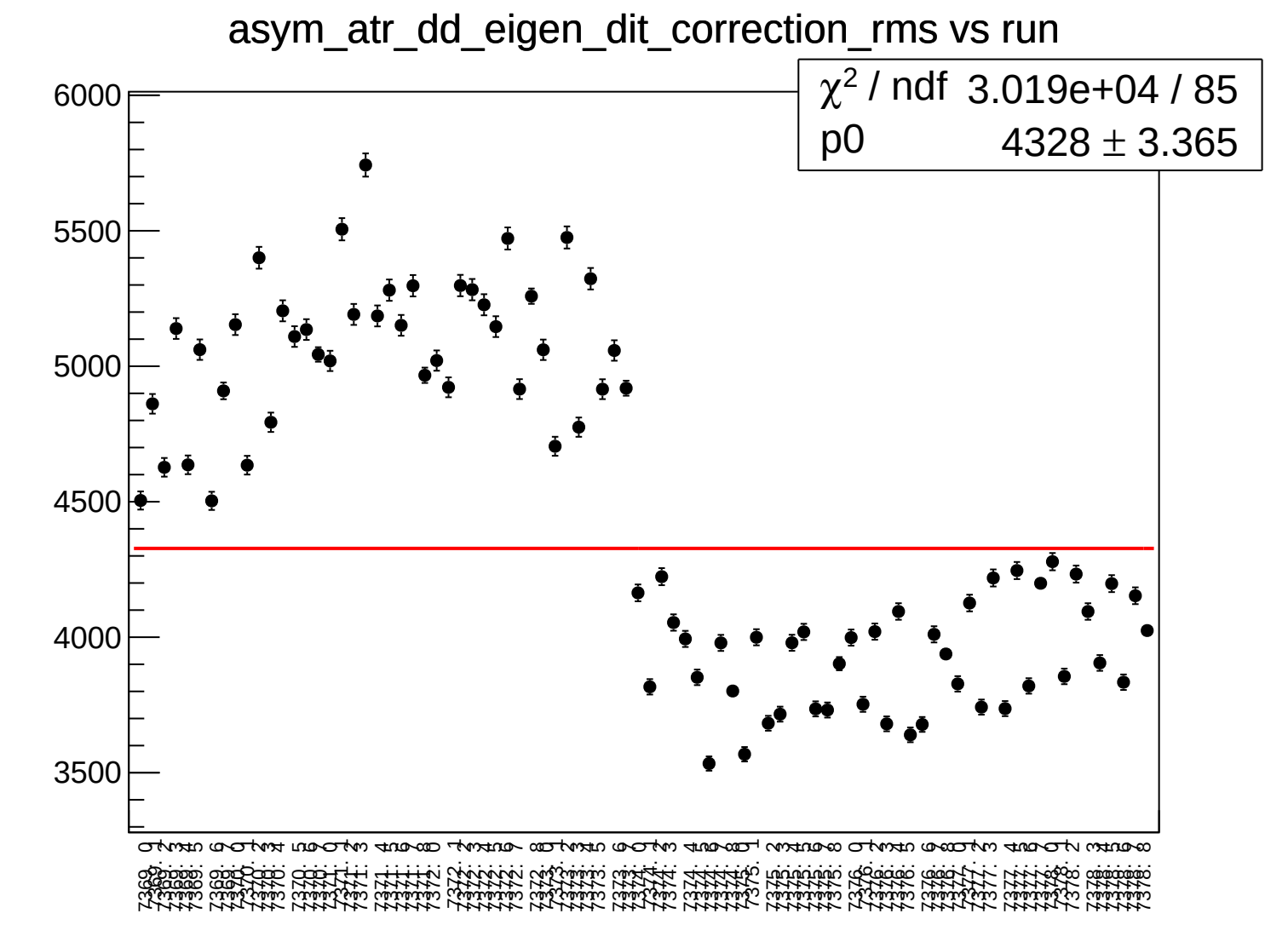

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 71.34 / 85
p0 −1344 ± 2115
pull
Entries 86
Mean 415.4
Std Dev 0

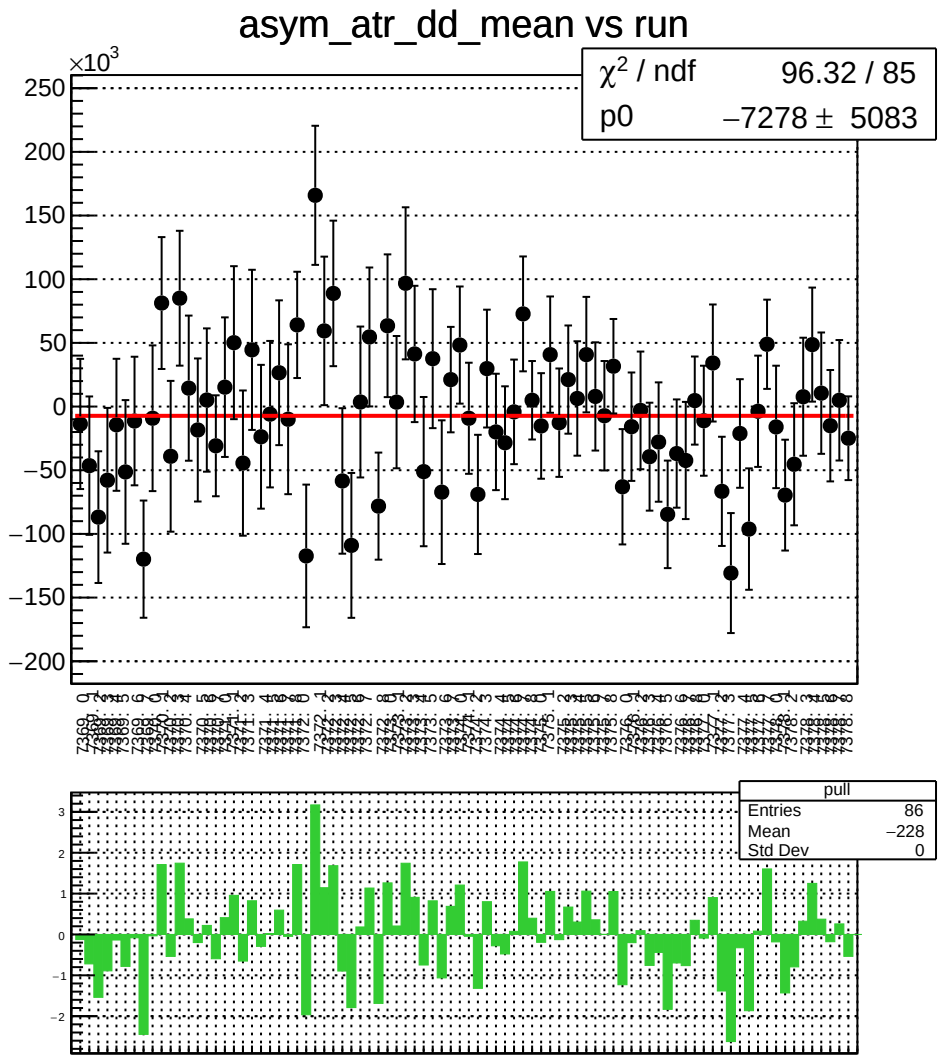

pull1D
Entries 86
Mean −0.005054
Std Dev 0.9108

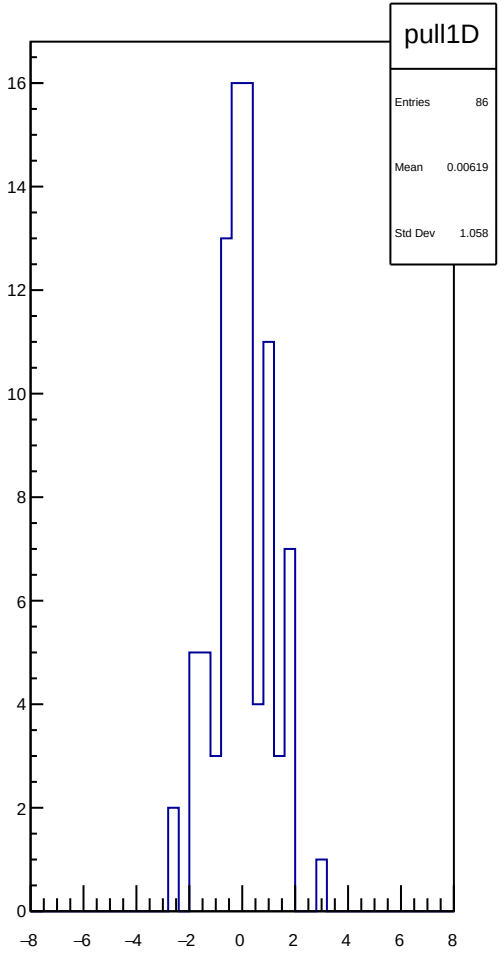

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 2000 / 85
p0 1940 ± 1.496
2150
2100
2050
2000
1950
1900
1850
1800

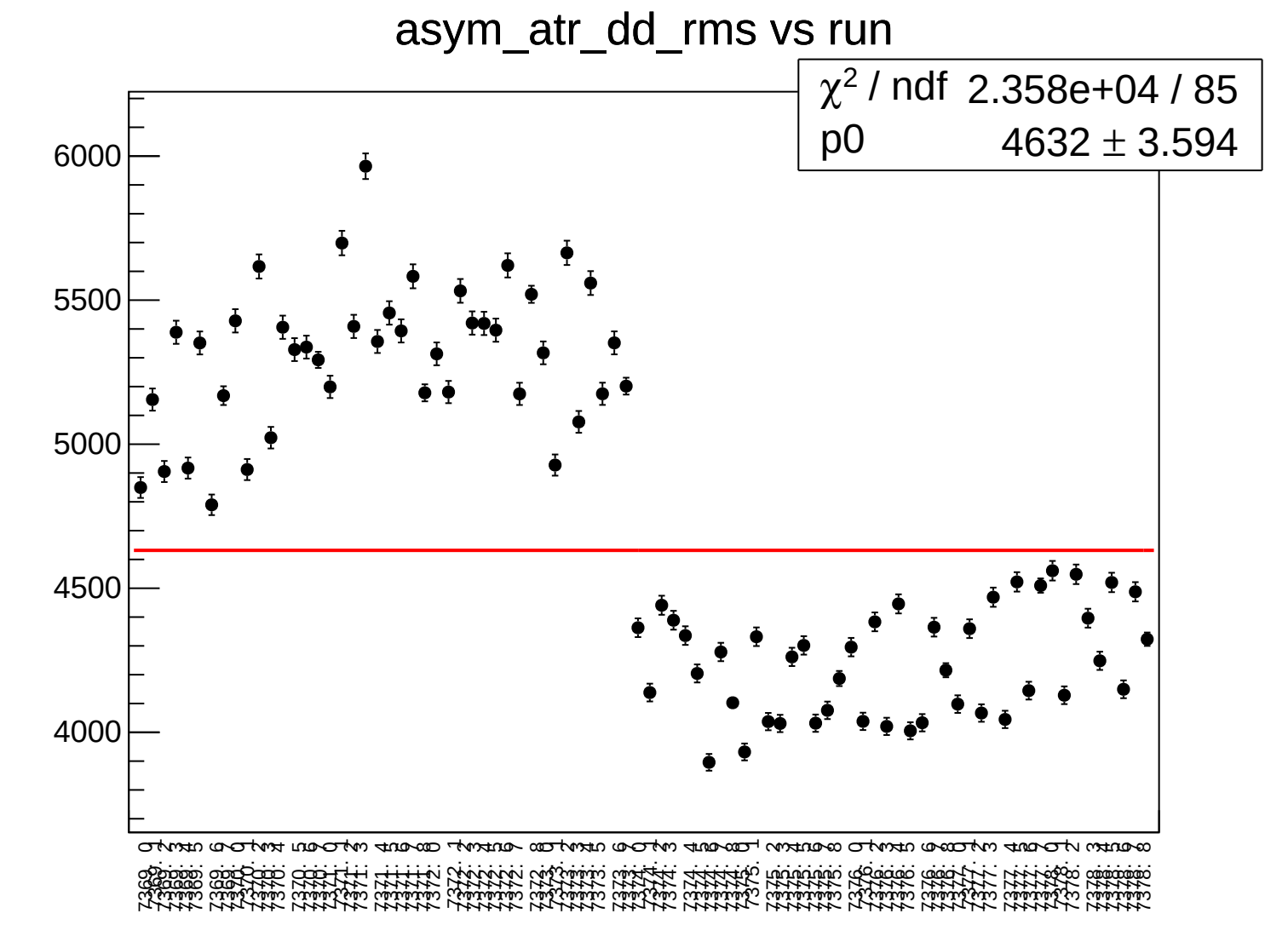

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.57 / 85
p0 5312 ± 4759
pull
Entries 86
Mean −399
Std Dev 0

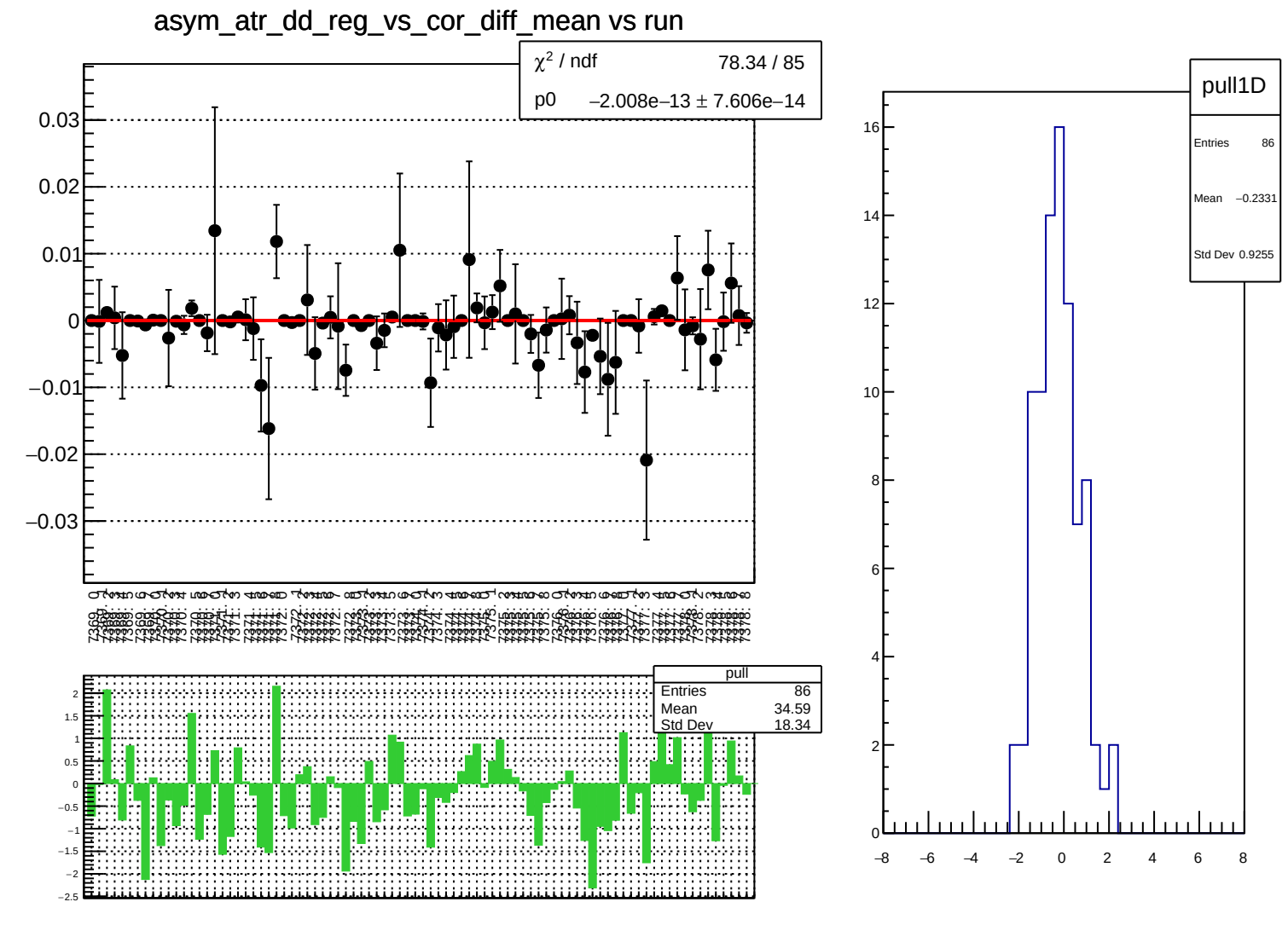

pull1D
Entries 86
Mean −0.002487
Std Dev 1.076

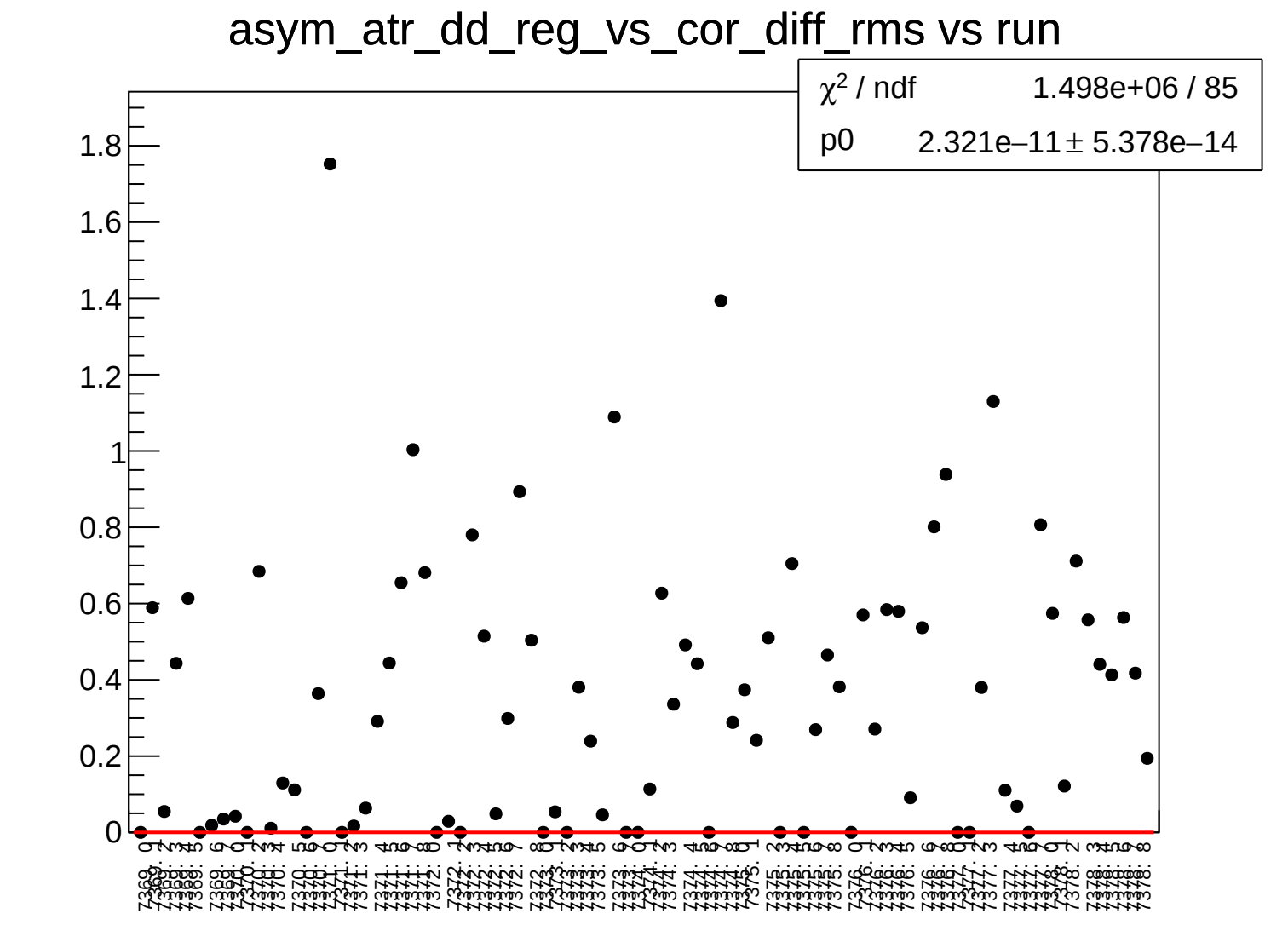

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3.019e+04 / 85
p0 4328 ± 3.365
6000
5500
5000
4500
4000
3500

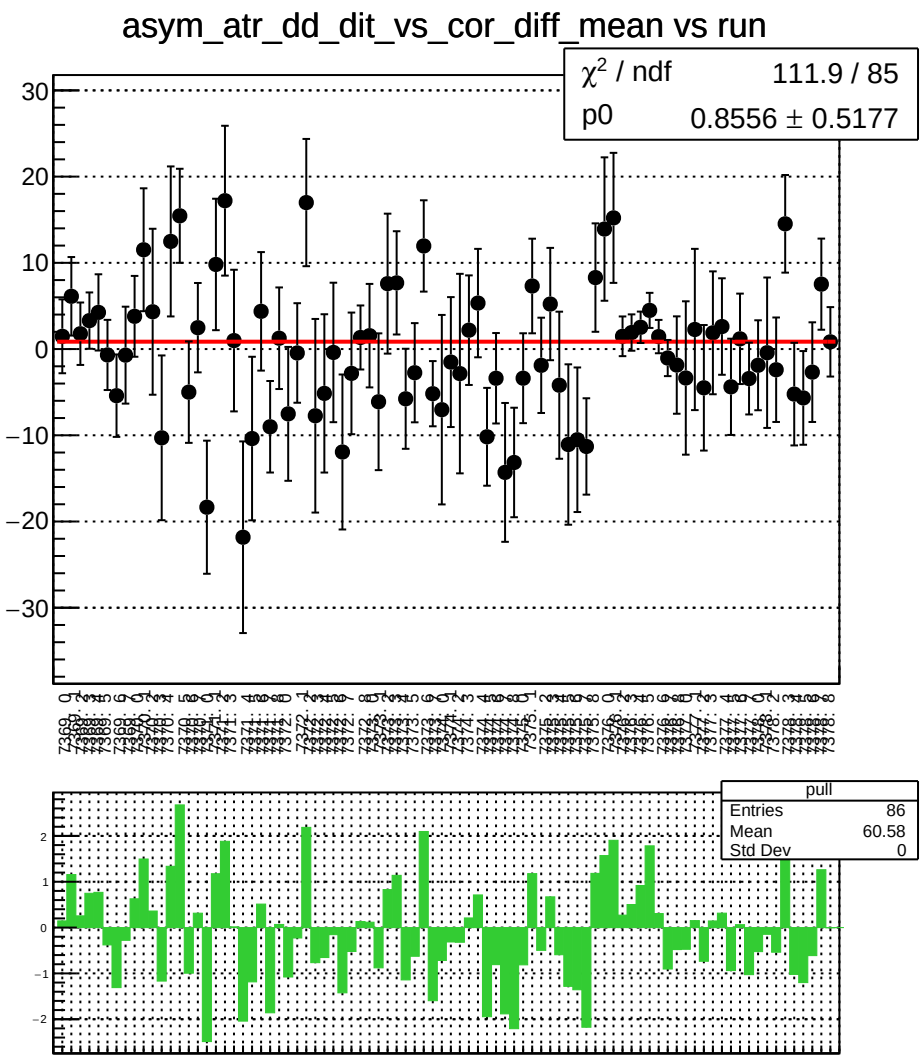

asym_atr_dd_mean vs run
×10^3
χ² / ndf 96.32 / 85
p0 −7278 ± 5083
pull
Entries 86
Mean −228
Std Dev 0

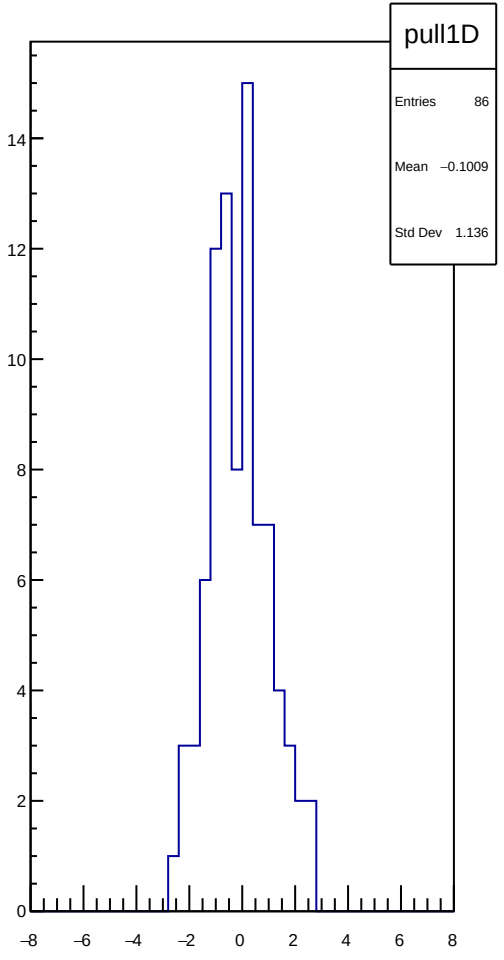

pull1D
Entries 86
Mean 0.00619
Std Dev 1.058

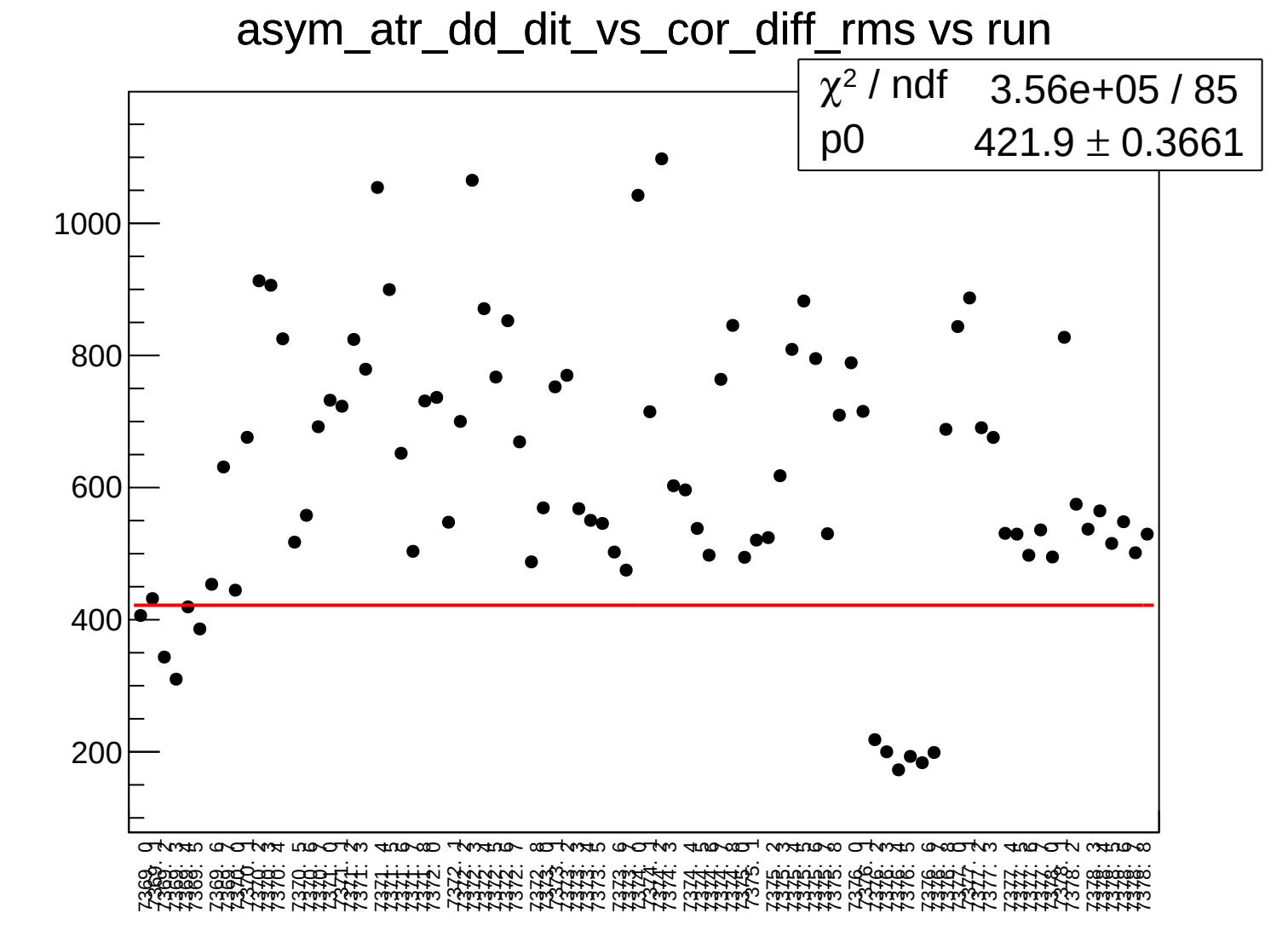

asym_atr_dd_rms vs run
χ² / ndf 2.358e+04 / 85
p0 4632 ± 3.594
6000
5500
5000
4500
4000

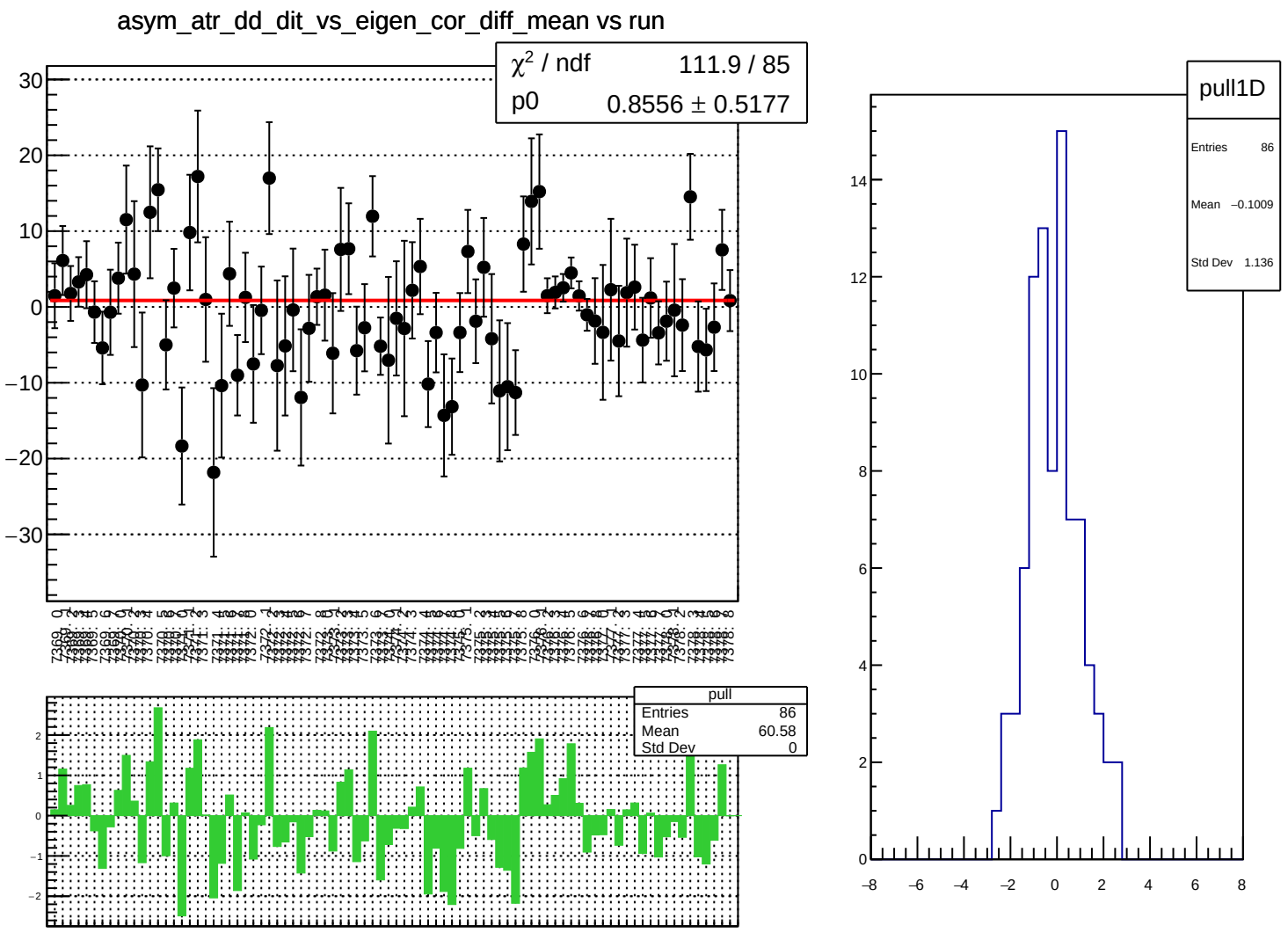

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.34 / 85
p0 −2.008e−13 ± 7.606e−14
pull
Entries 86
Mean 34.59
Std Dev 18.34
pull1D
Entries 86
Mean −0.2331
Std Dev 0.9255

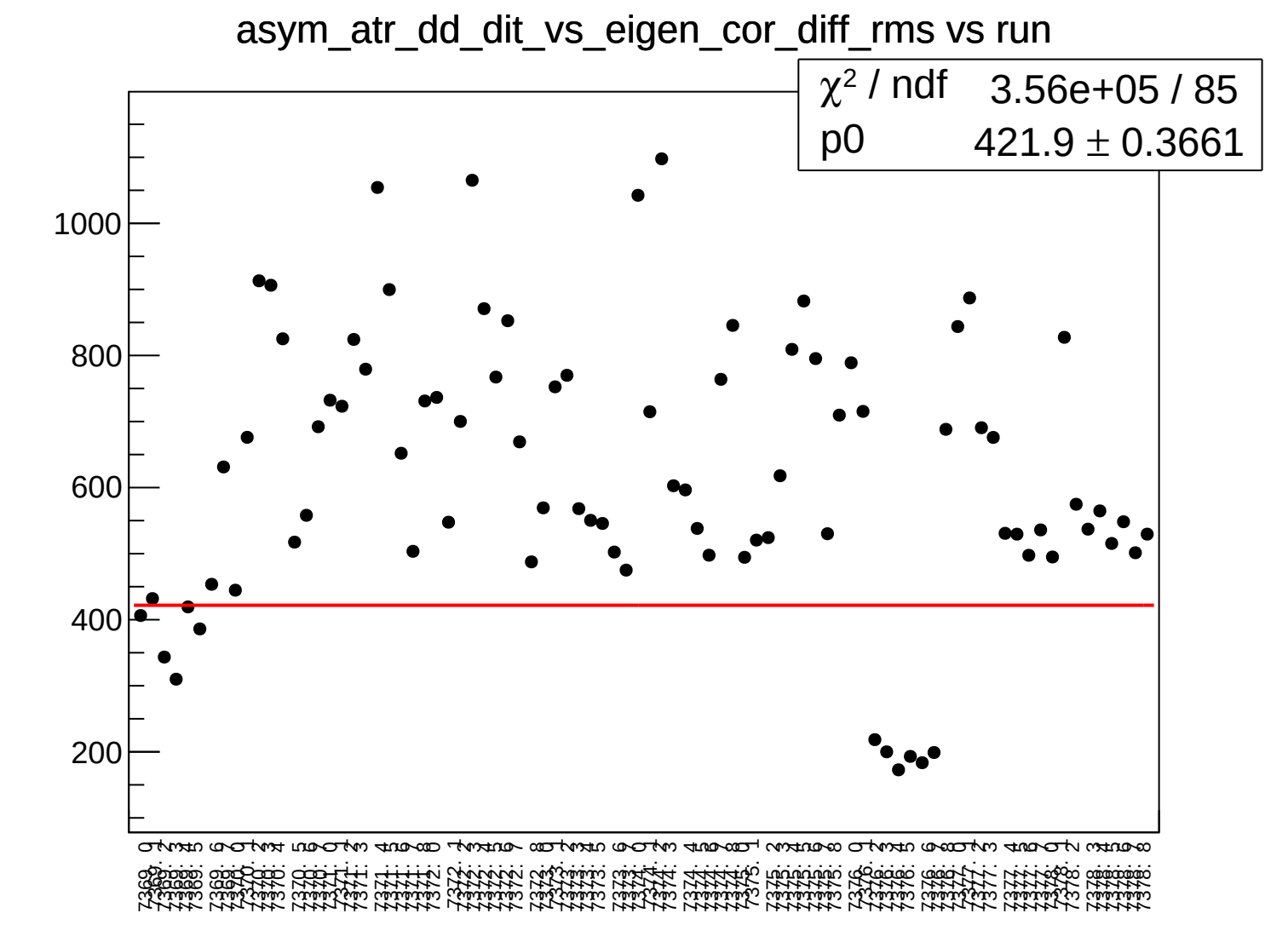

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.498e+06 / 85
p0 2.321e−11 ± 5.378e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

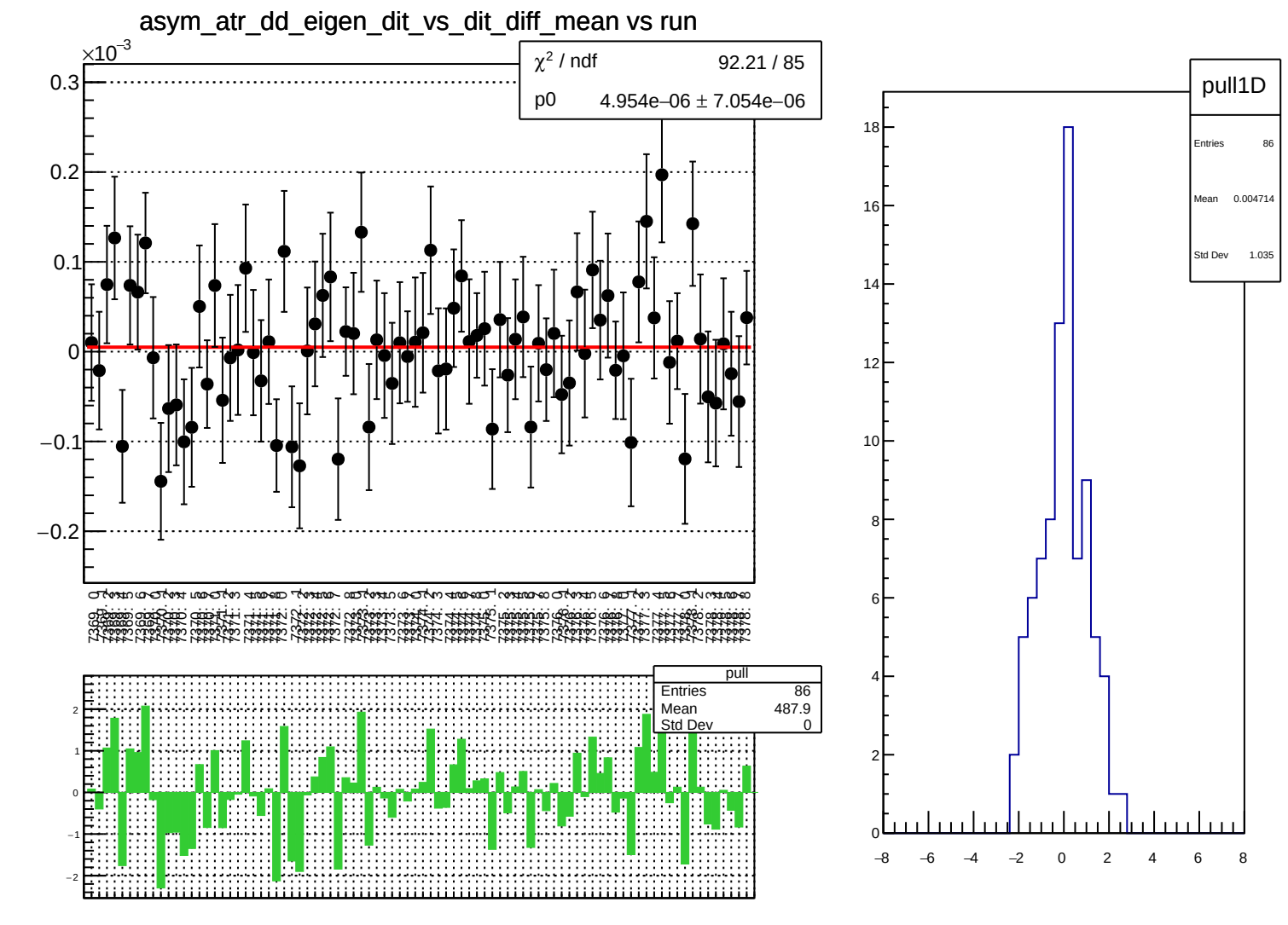

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 111.9 / 85
p0 0.8556 ± 0.5177
pull
Entries 86
Mean 60.58
Std Dev 0

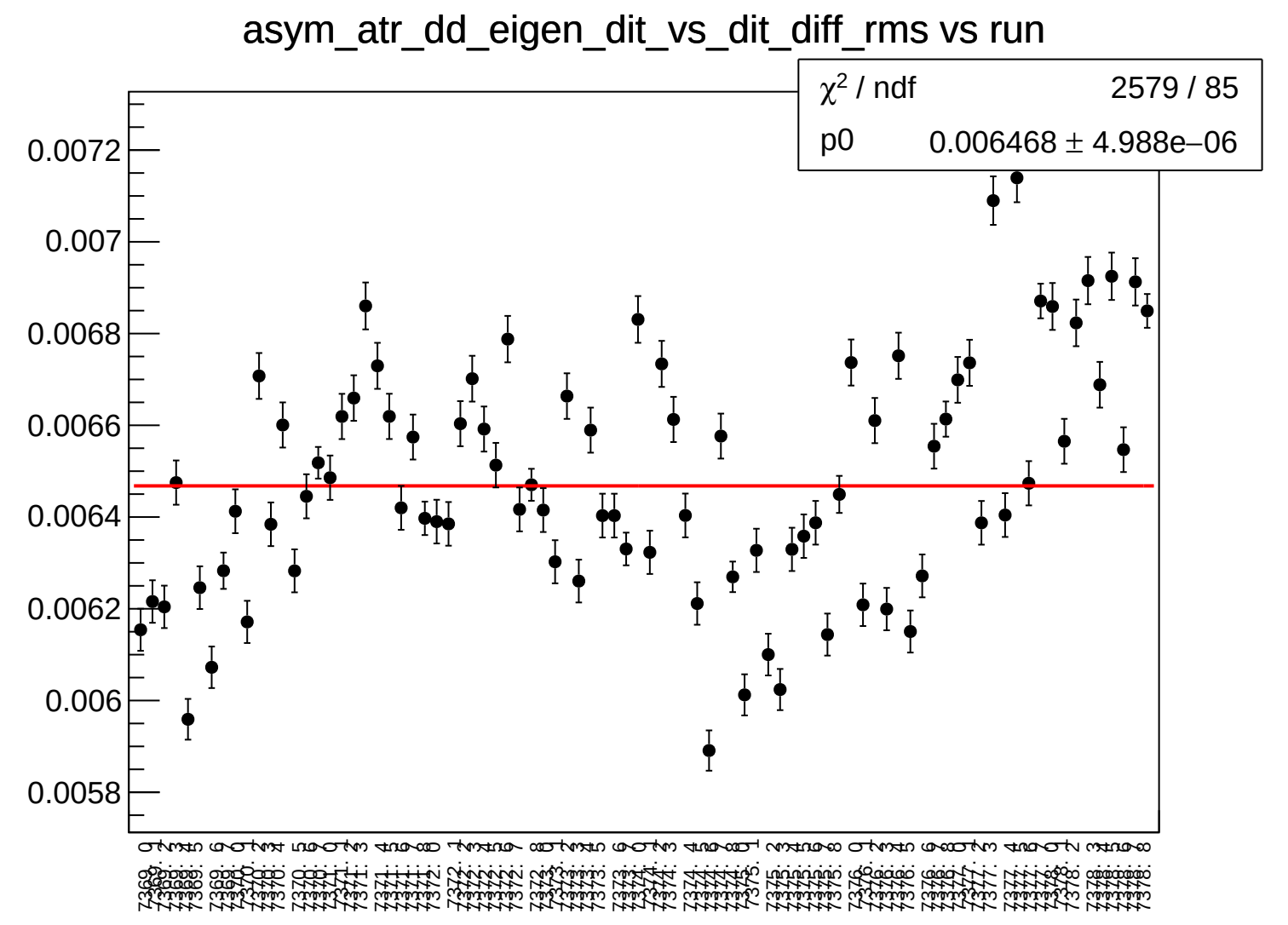

pull1D
Entries 86
Mean −0.1009
Std Dev 1.136

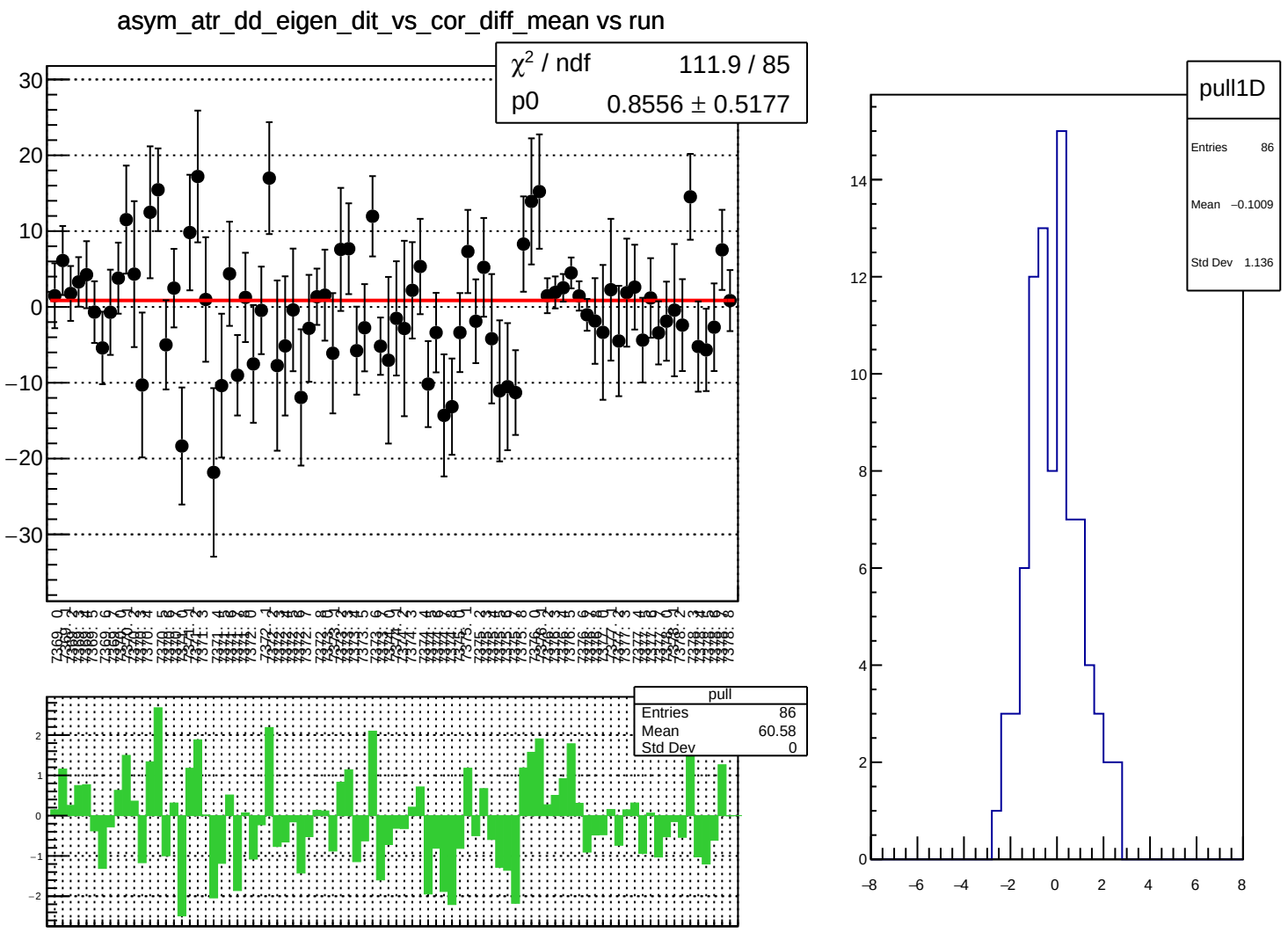

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.56e+05 / 85
p0 421.9 ± 0.3661
1000
800
600
400
200

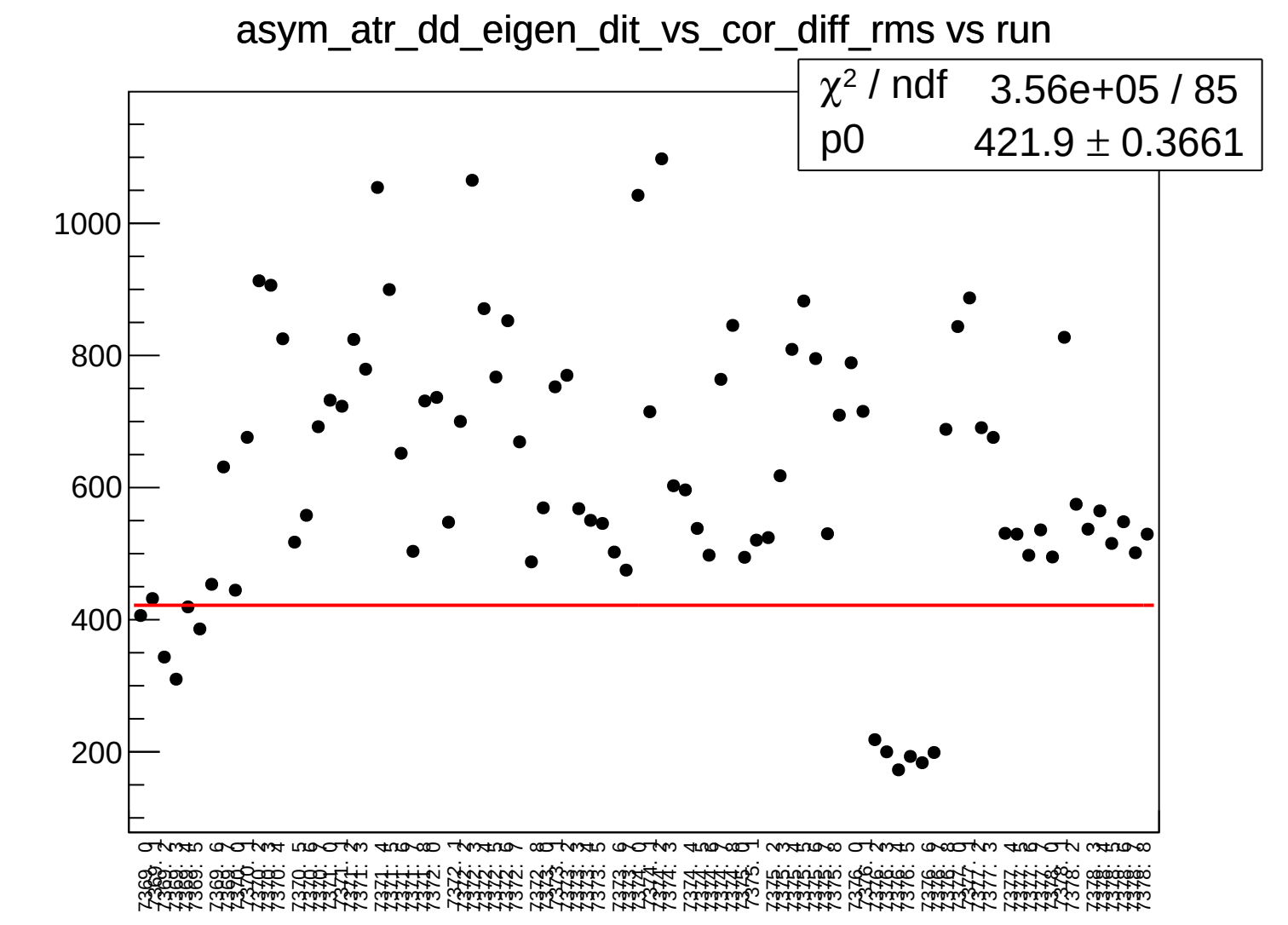

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.9 / 85
p0 0.8556 ± 0.5177
pull
Entries 86
Mean 60.58
Std Dev 0
pull1D
Entries 86
Mean −0.1009
Std Dev 1.136

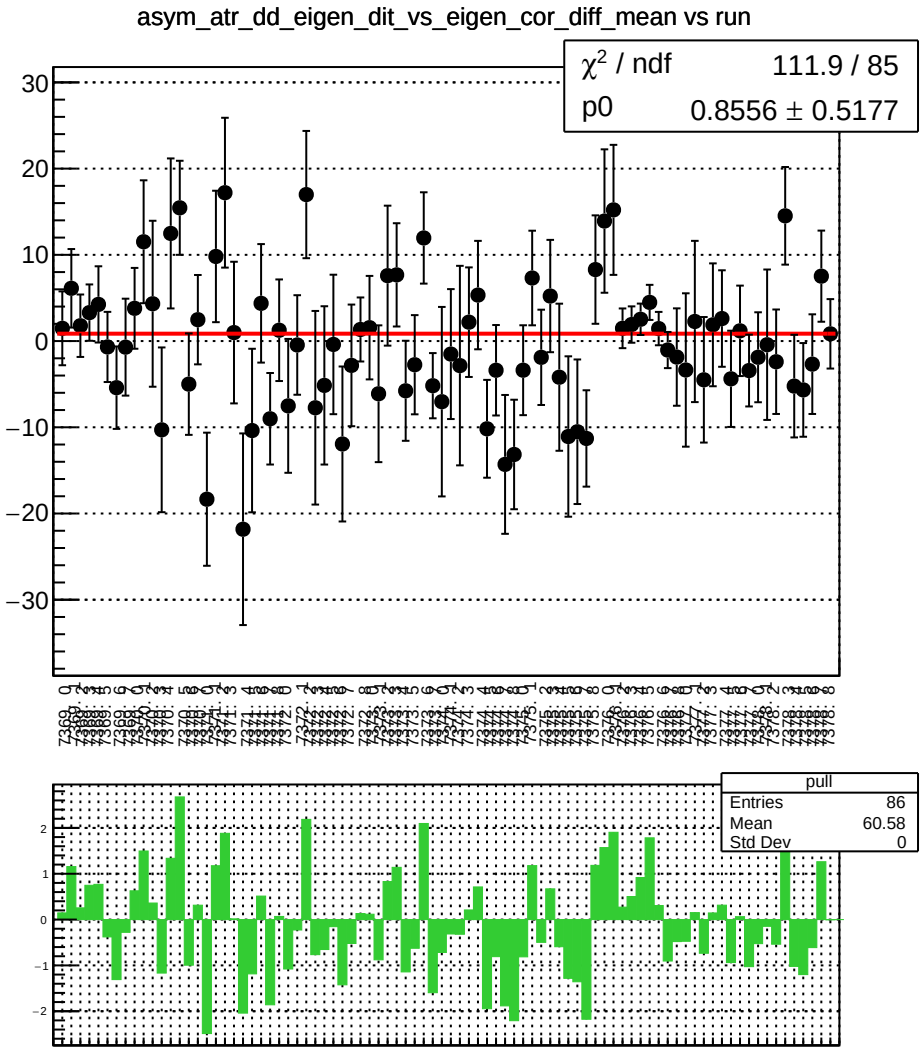

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.56e+05 / 85
p0 421.9 ± 0.3661
1000
800
600
400
200

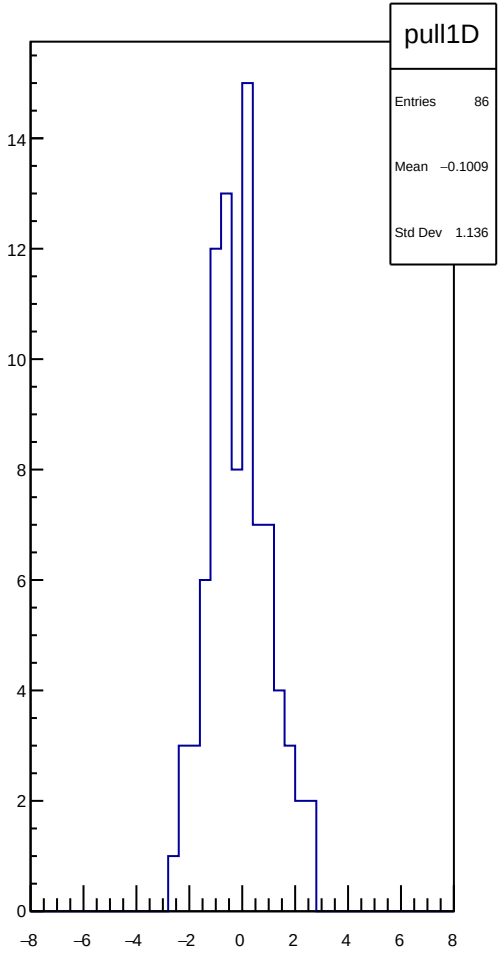

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.21 / 85
p0 4.954e−06 ± 7.054e−06
pull
Entries 86
Mean 487.9
Std Dev 0
pull1D
Entries 86
Mean 0.004714
Std Dev 1.035

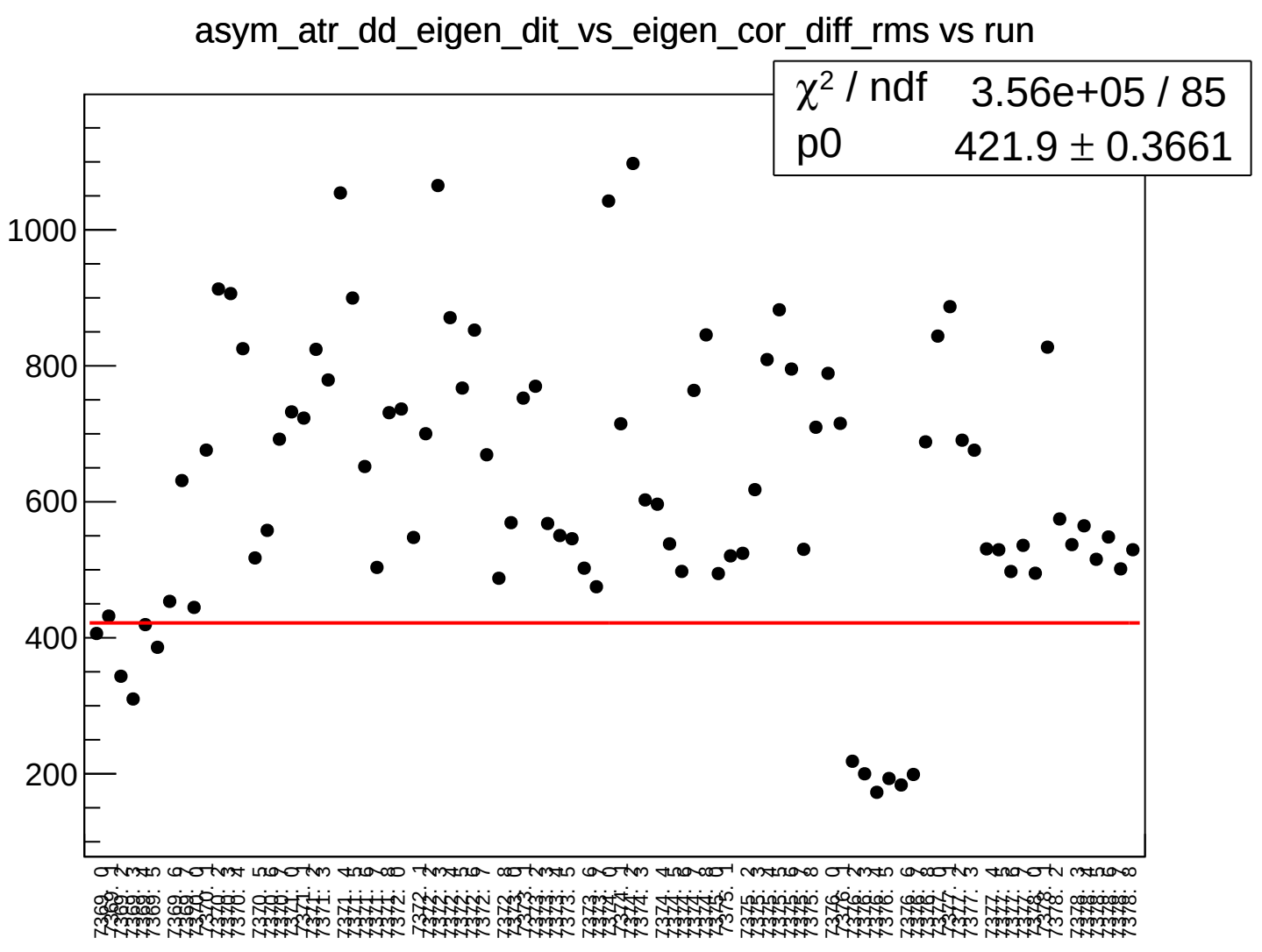

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2579 / 85
p0 0.006468 ± 4.988e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058

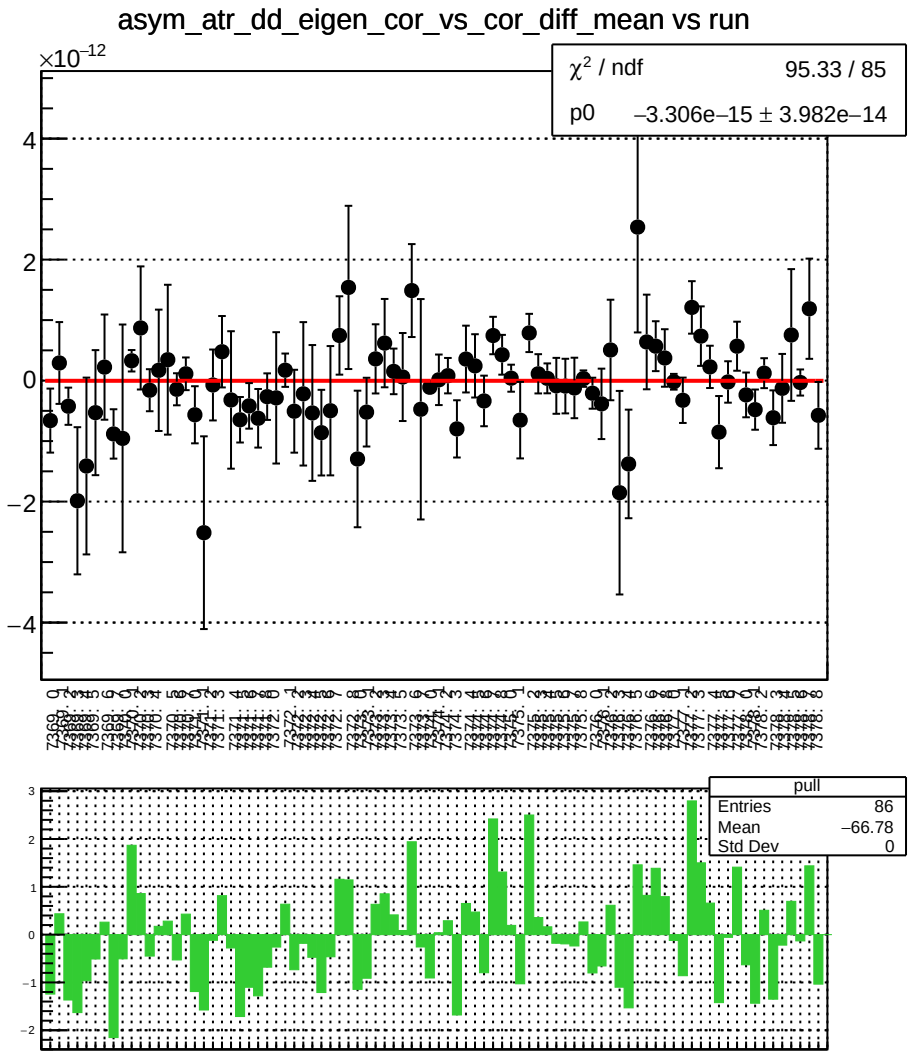

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.9 / 85
p0 0.8556 ± 0.5177
pull
Entries 86
Mean 60.58
Std Dev 0
pull1D
Entries 86
Mean −0.1009
Std Dev 1.136

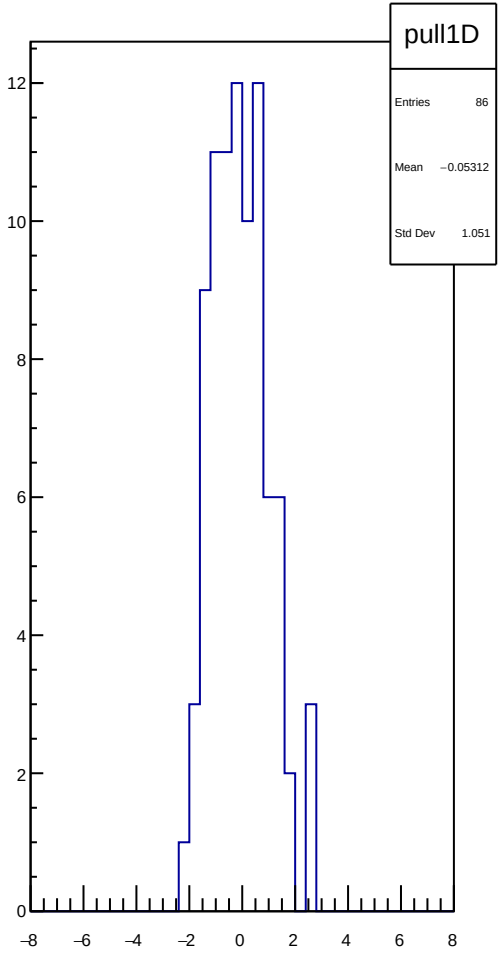

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.56e+05 / 85
p0 421.9 ± 0.3661
1000
800
600
400
200

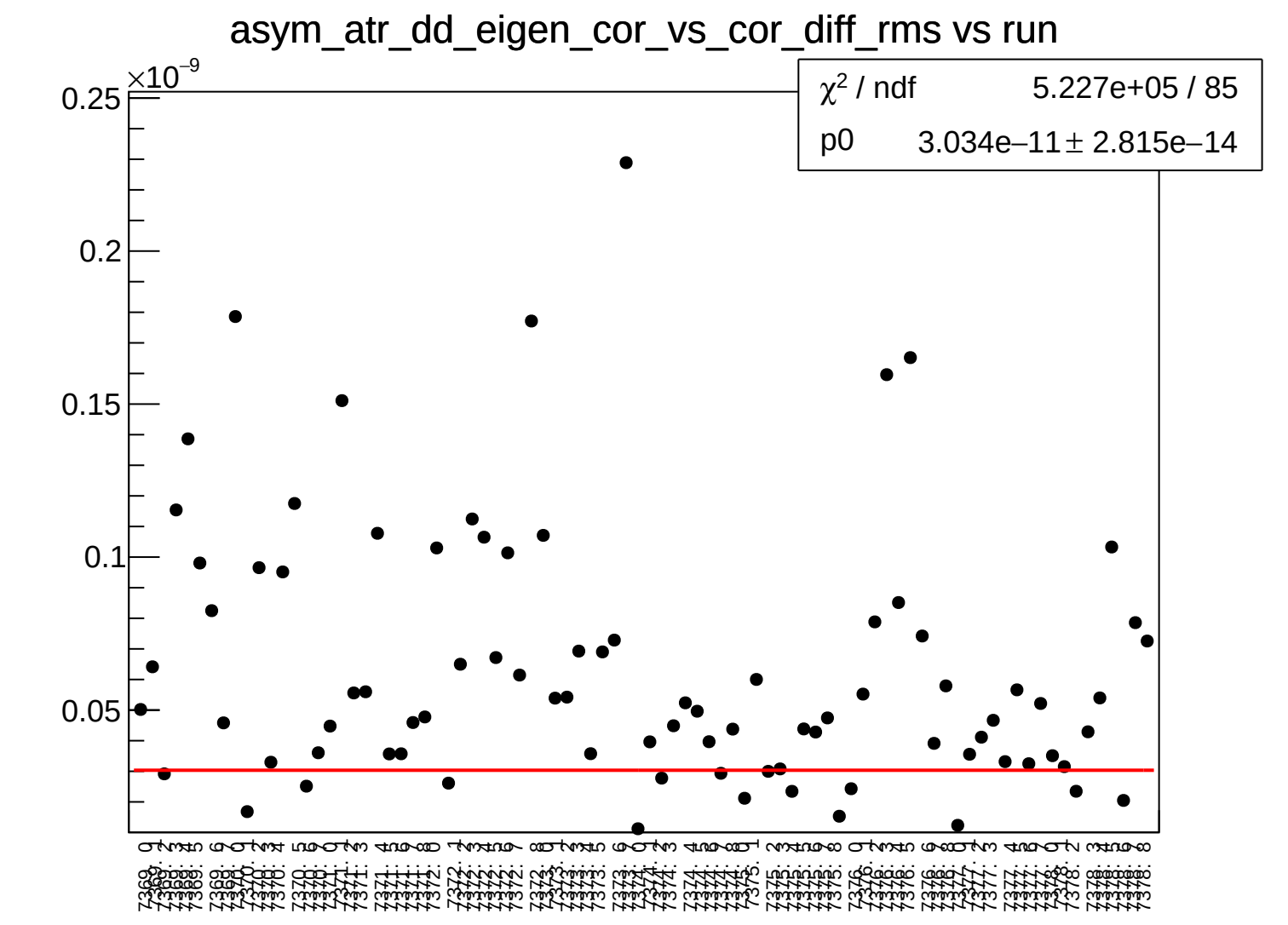

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.9 / 85
p0 0.8556 ± 0.5177
pull
Entries 86
Mean 60.58
Std Dev 0

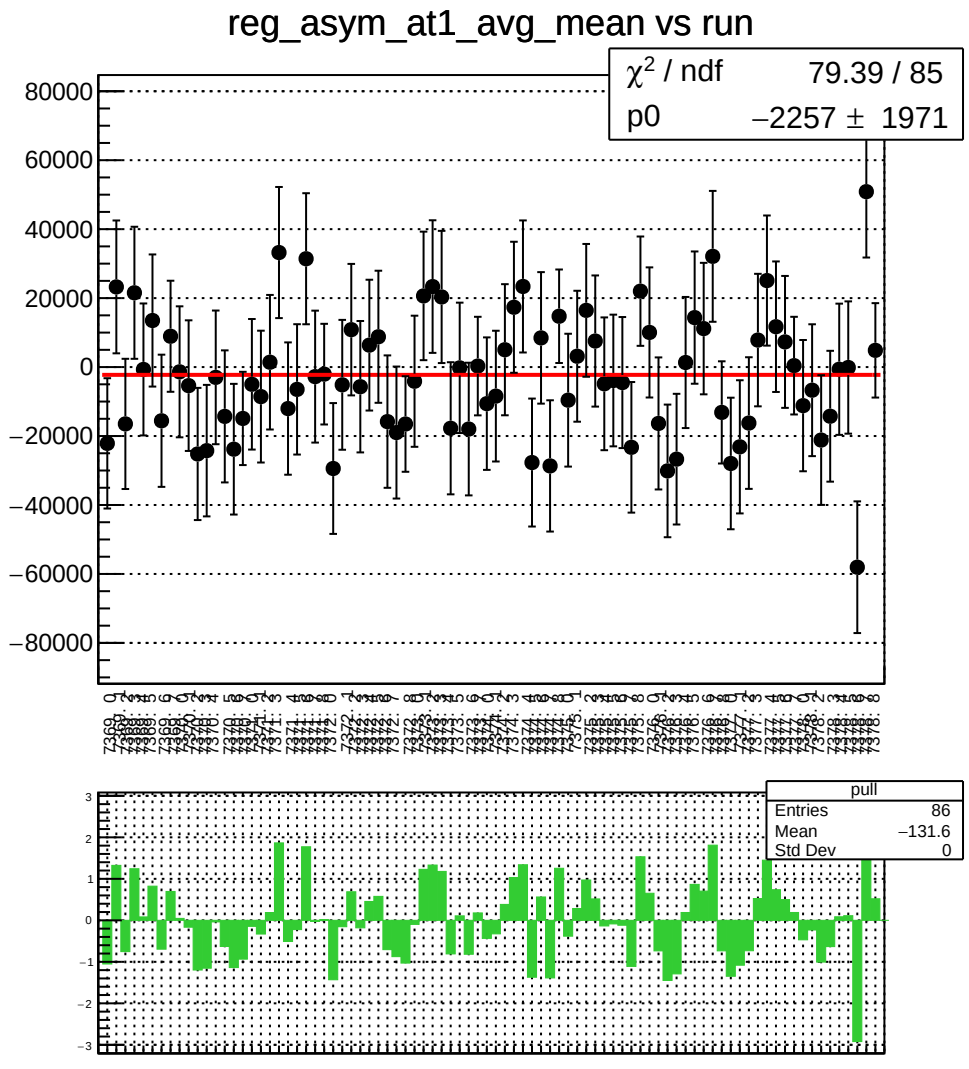

pull1D
Entries 86
Mean −0.1009
Std Dev 1.136

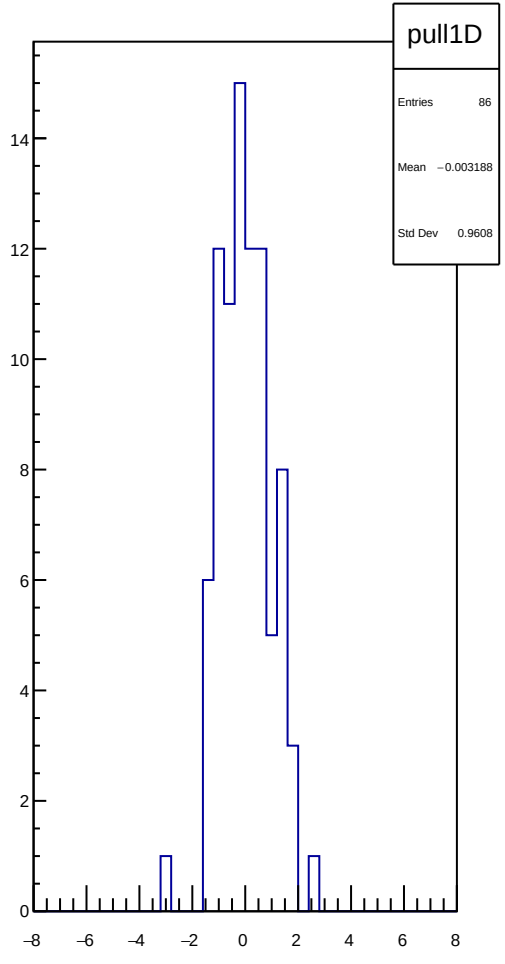

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.56e+05 / 85
p0 421.9 ± 0.3661
1000
800
600
400
200

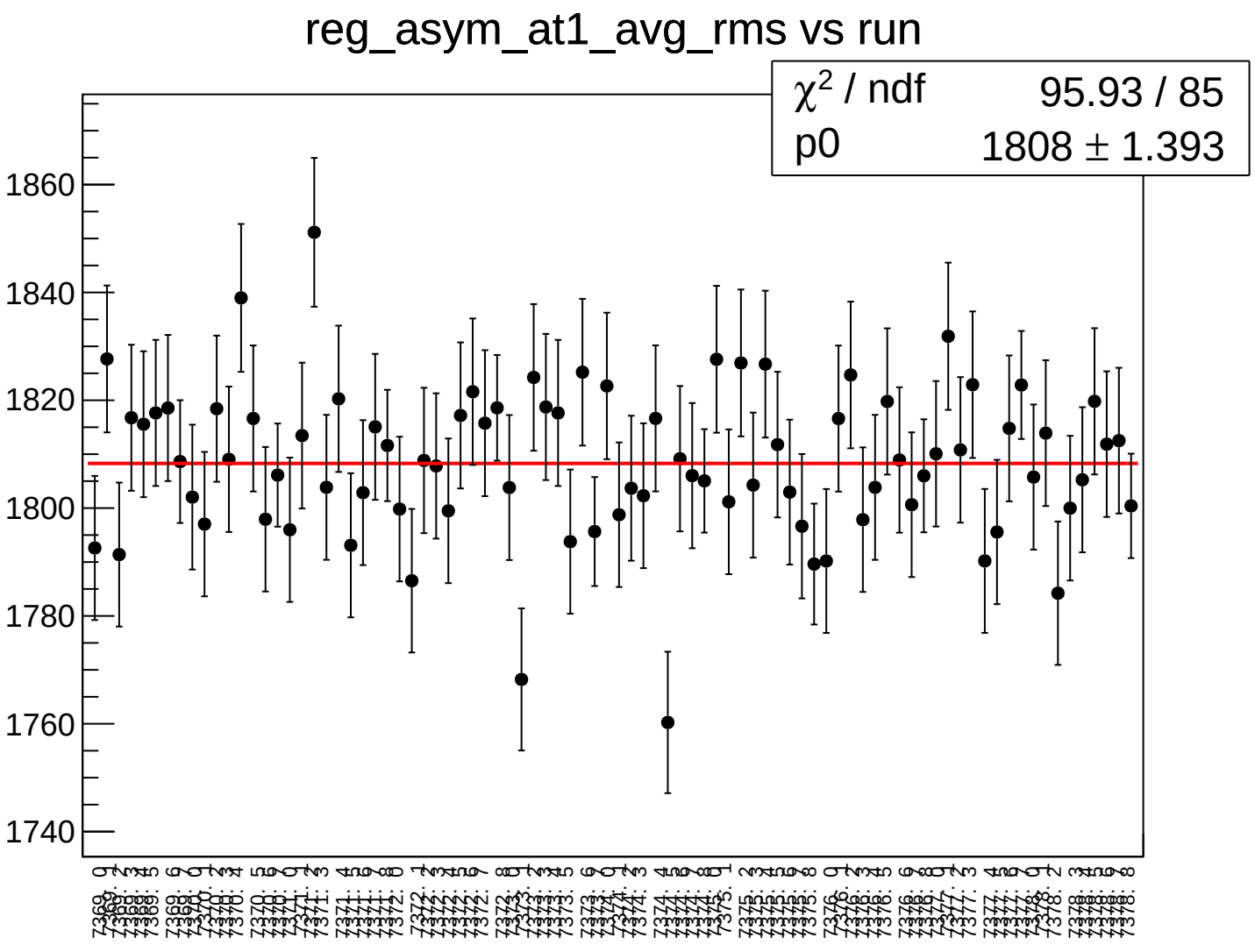

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.33 / 85
p0 −3.306e−15 ± 3.982e−14
pull
Entries 86
Mean −66.78
Std Dev 0

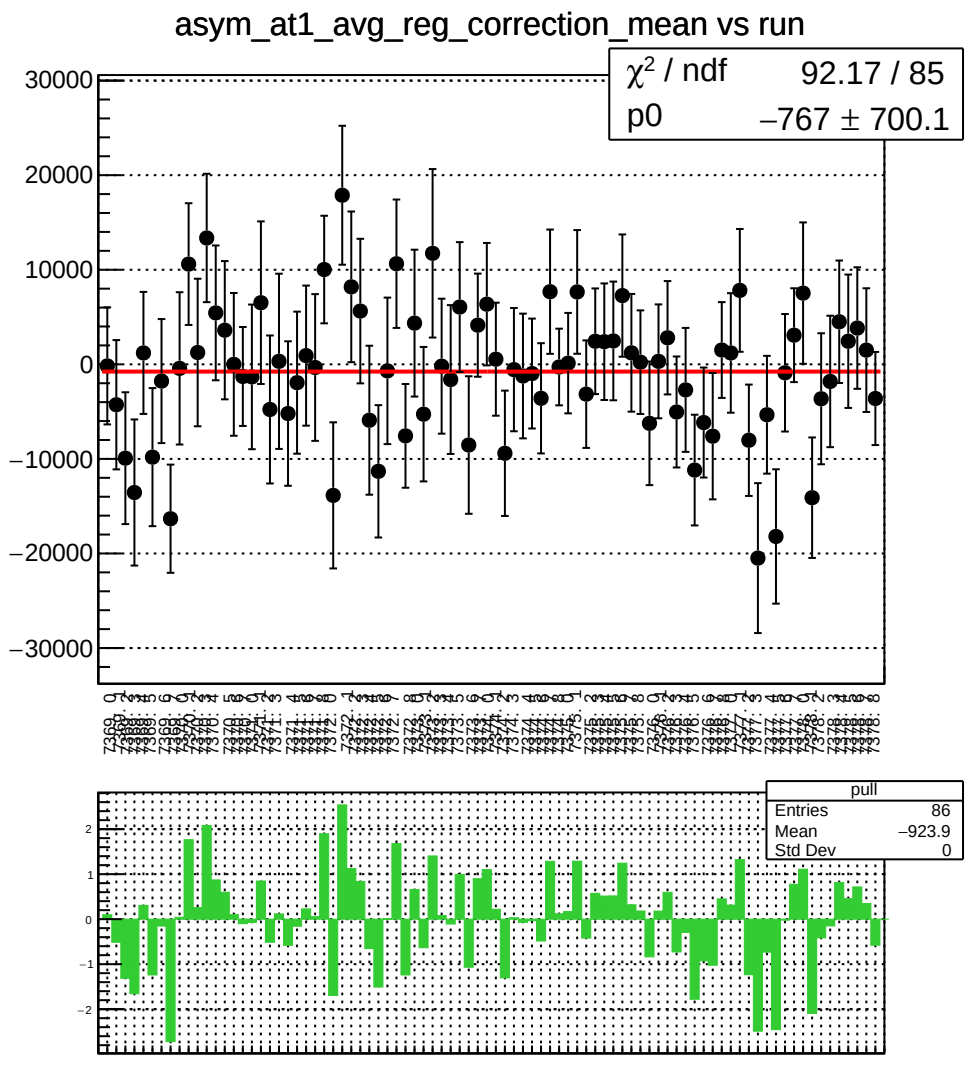

pull1D
Entries 86
Mean −0.05312
Std Dev 1.051

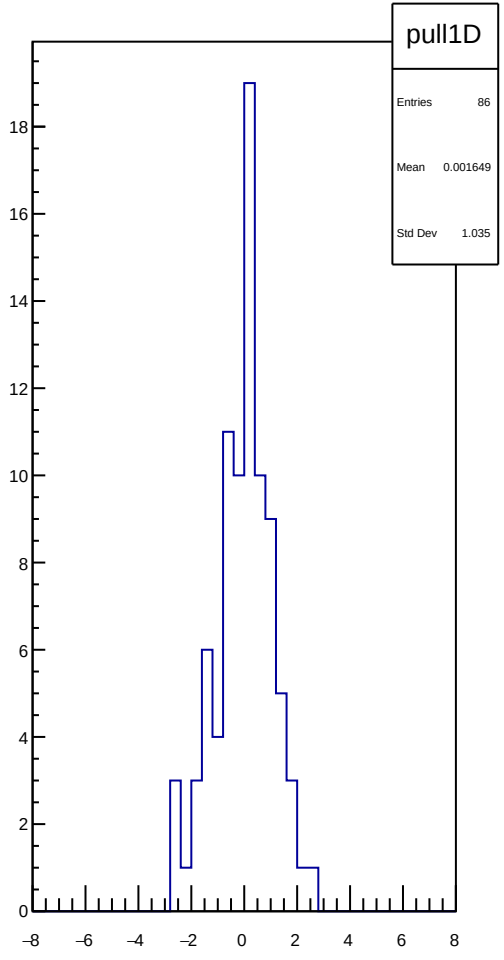

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.227e+05 / 85
p0 3.034e−11 ± 2.815e−14

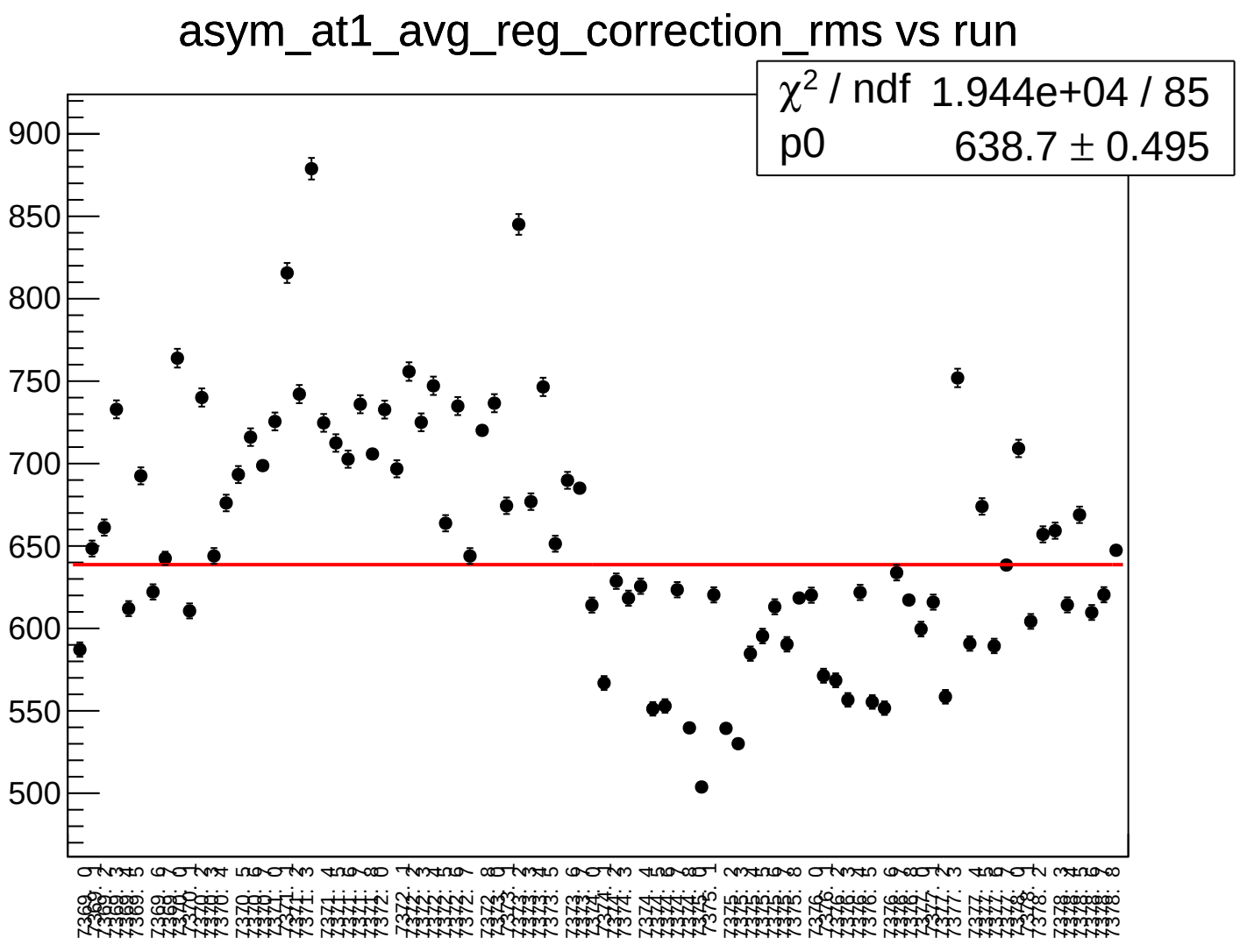

reg_asym_at1_avg_mean vs run
χ² / ndf 79.39 / 85
p0 −2257 ± 1971
pull
Entries 86
Mean −131.6
Std Dev 0

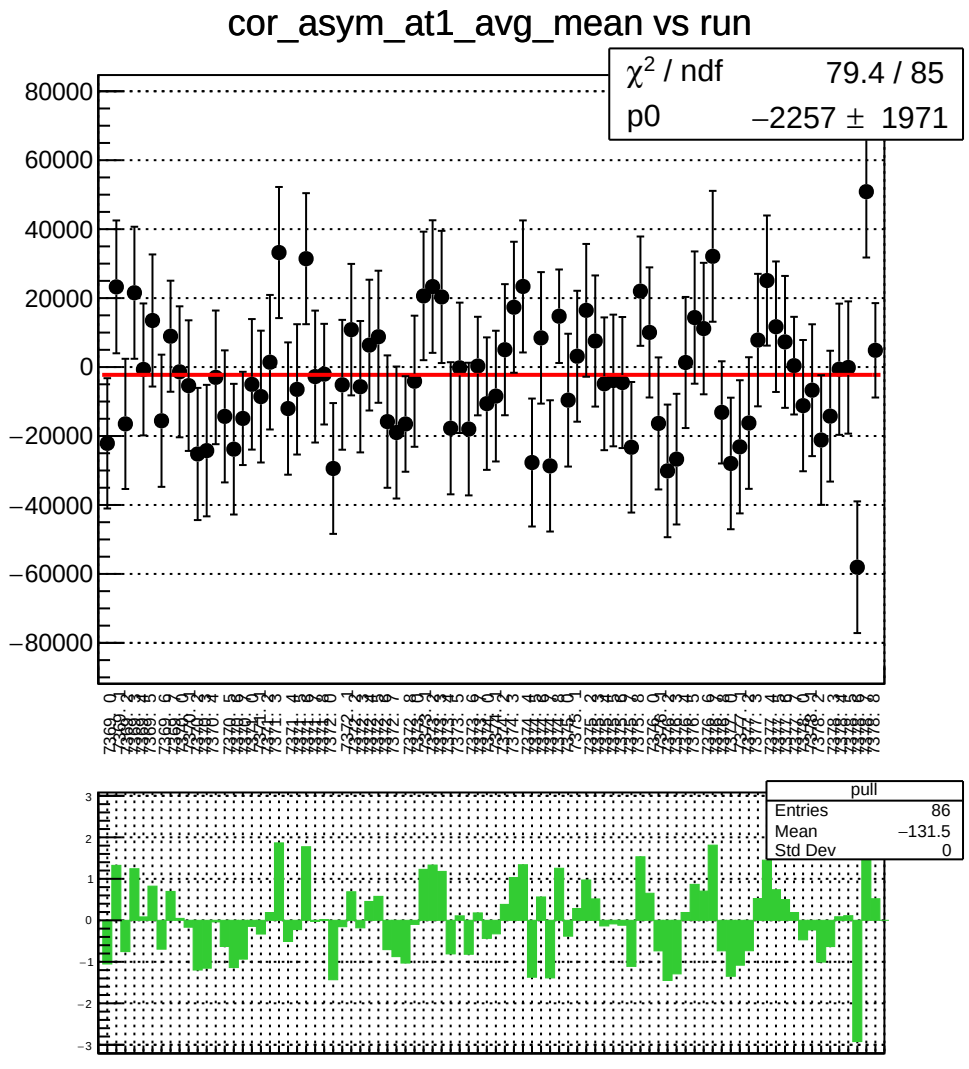

pull1D
Entries 86
Mean −0.003188
Std Dev 0.9608

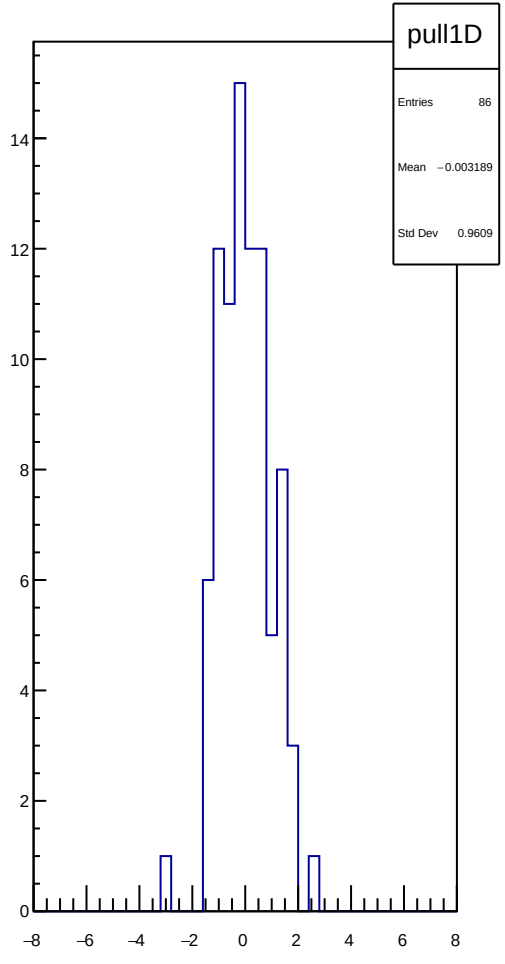

reg_asym_at1_avg_rms vs run
χ² / ndf 95.93 / 85
p0 1808 ± 1.393
1860
1840
1820
1800
1780
1760
1740

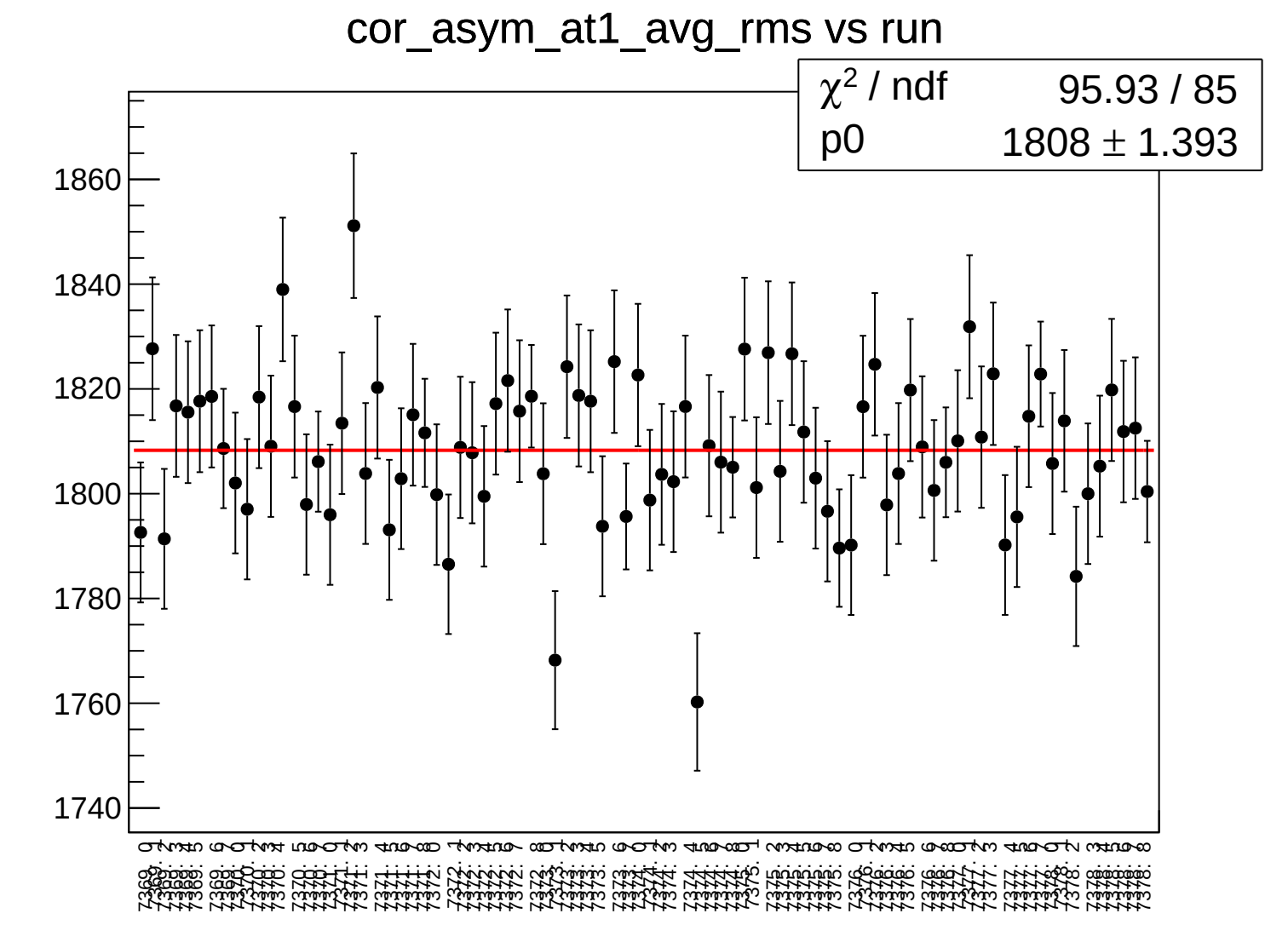

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 92.17 / 85
p0 −767 ± 700.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −923.9
Std Dev 0
2
1
0
−1
−2

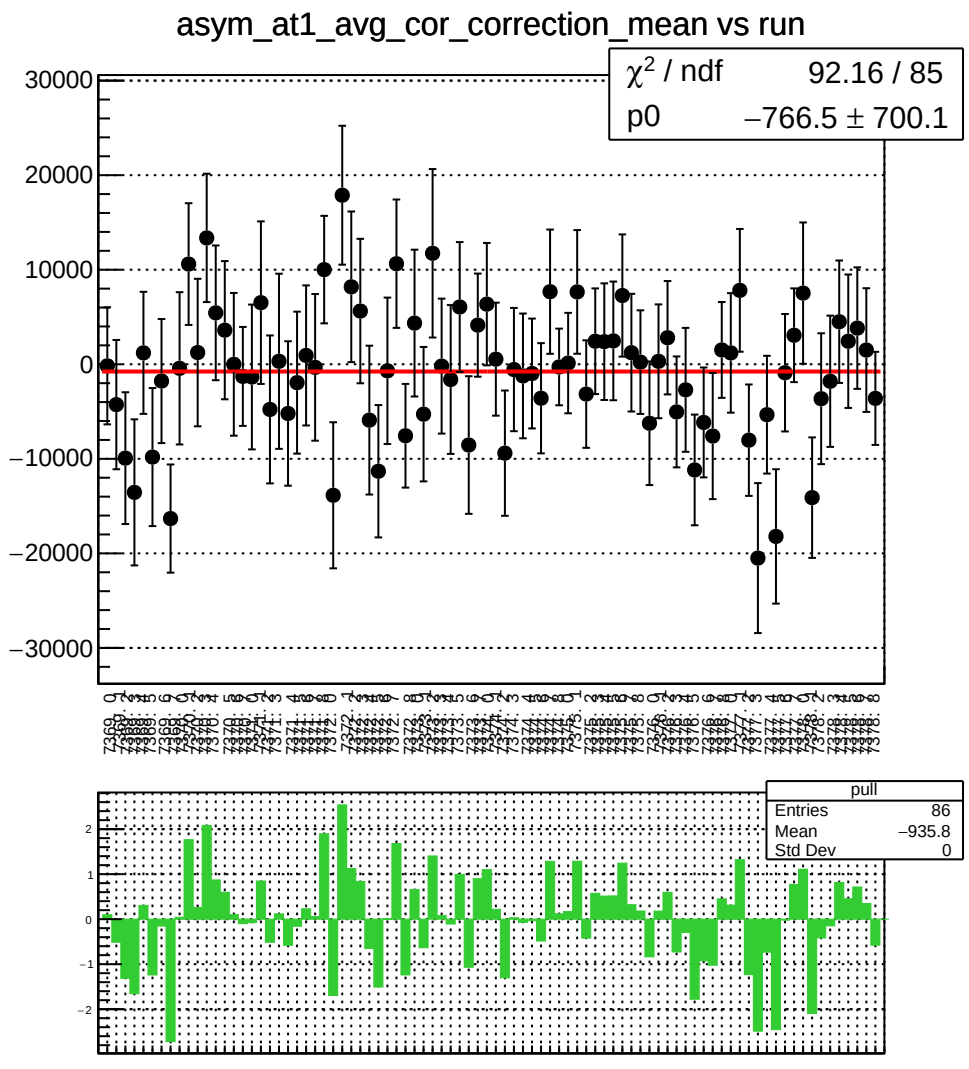

pull1D
Entries 86
Mean 0.001649
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

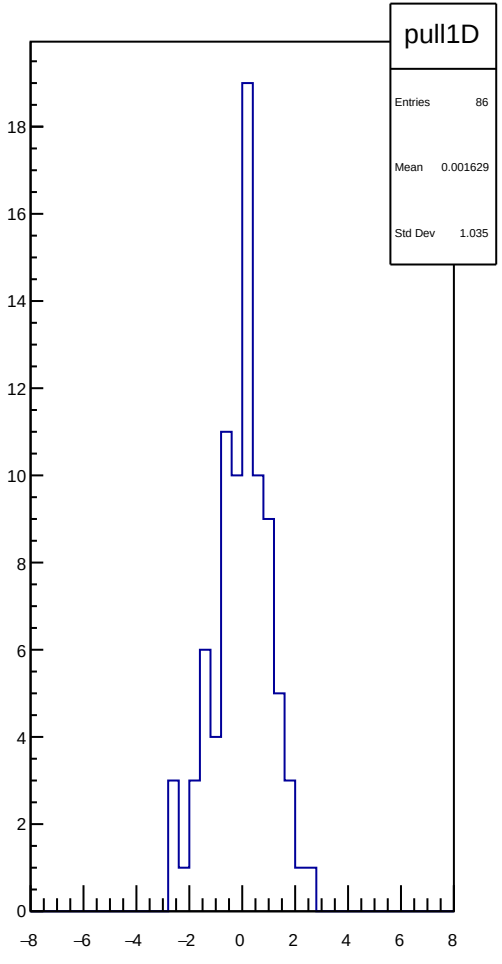

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.944e+04 / 85
p0 638.7 ± 0.495
900
850
800
750
700
650
600
550
500

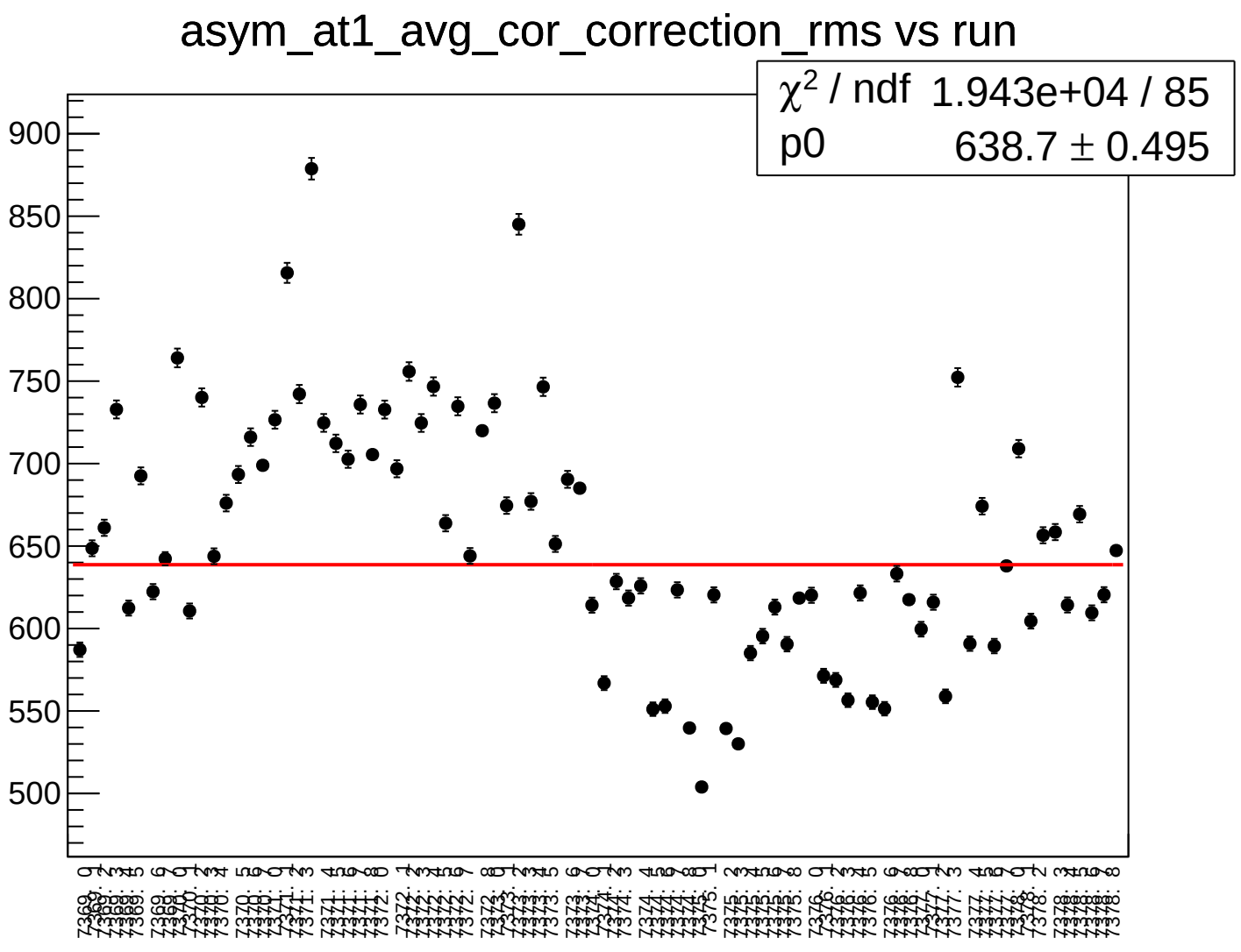

cor_asym_at1_avg_mean vs run
χ² / ndf 79.4 / 85
p0 −2257 ± 1971
pull
Entries 86
Mean −131.5
Std Dev 0

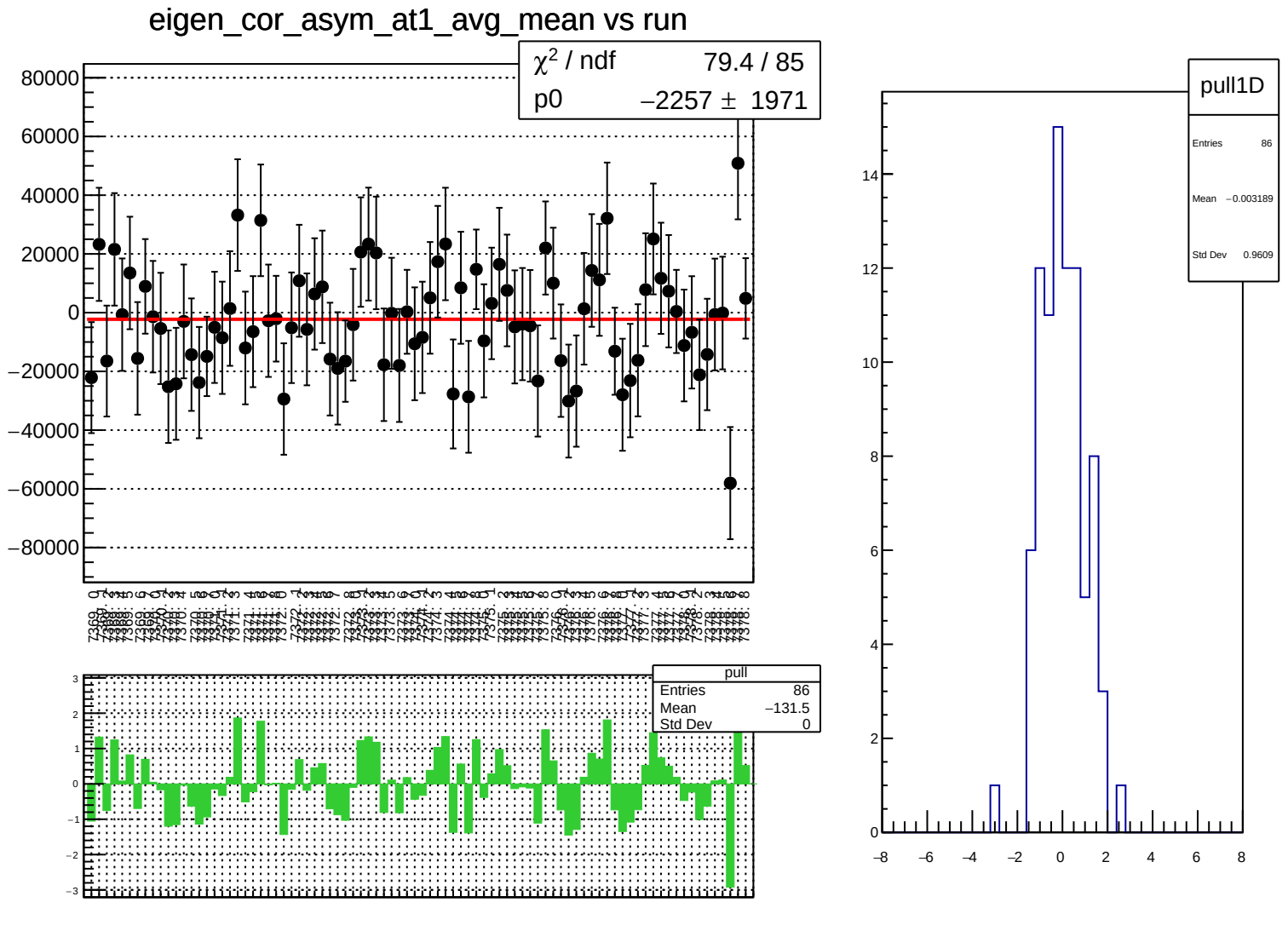

pull1D
Entries 86
Mean −0.003189
Std Dev 0.9609

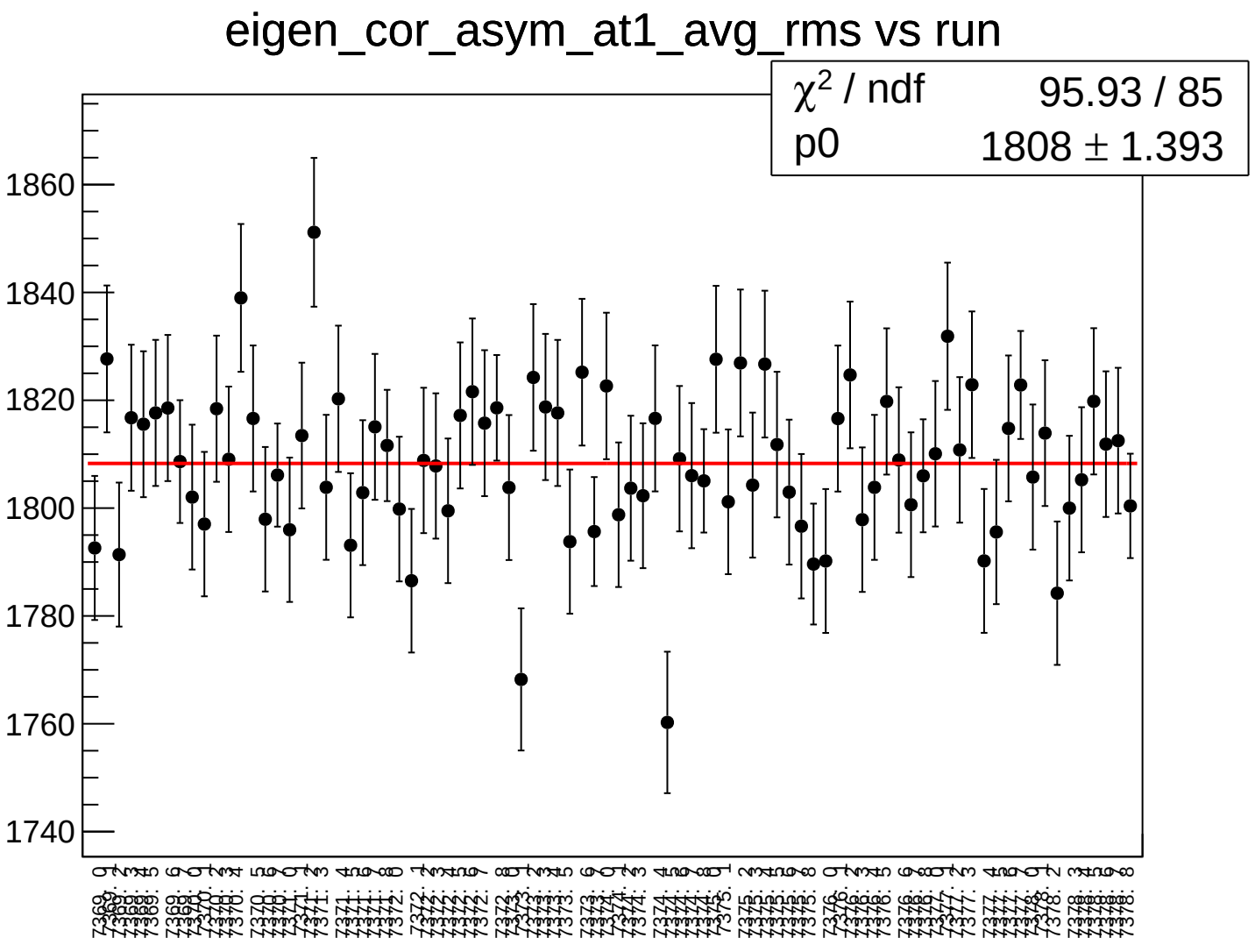

cor_asym_at1_avg_rms vs run
χ^2 / ndf 95.93 / 85
p0 1808 ± 1.393
1860
1840
1820
1800
1780
1760
1740

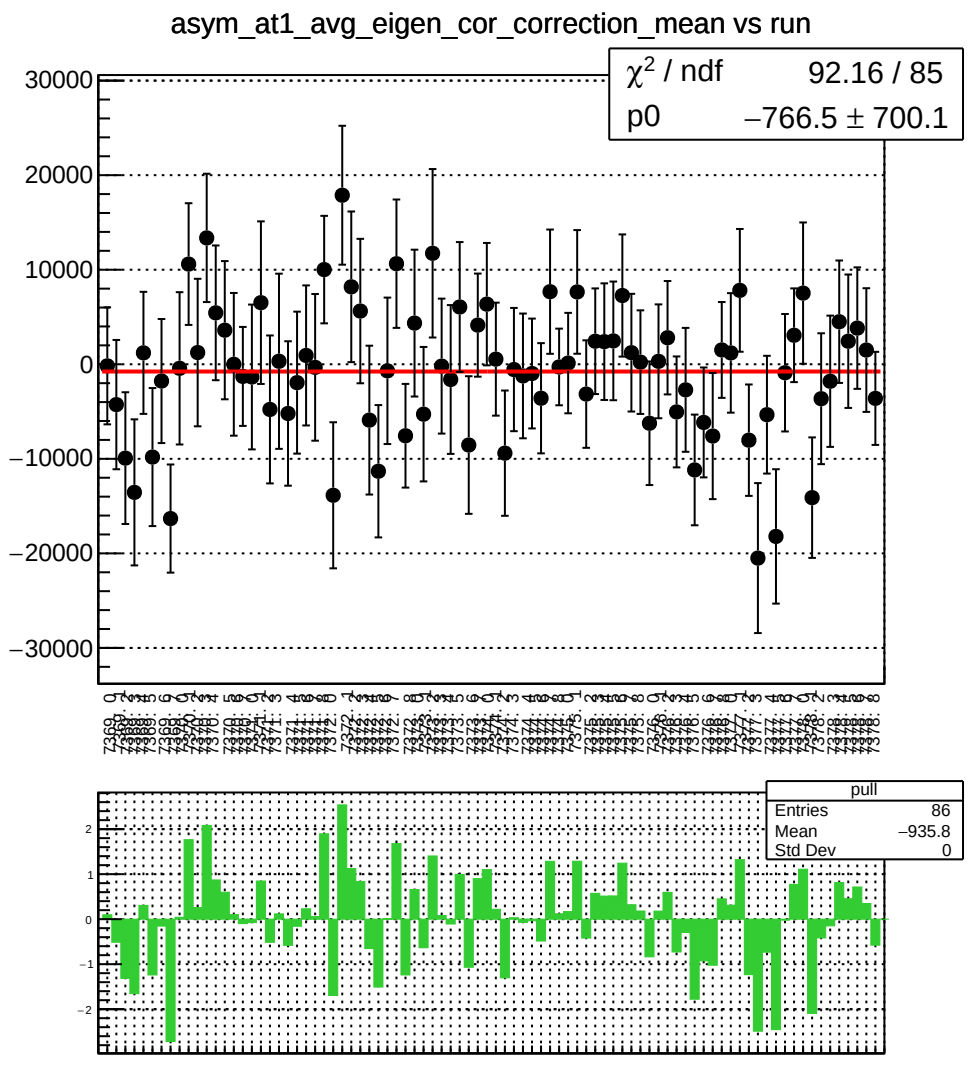

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 92.16 / 85
p0 −766.5 ± 700.1
pull
Entries 86
Mean −935.8
Std Dev 0

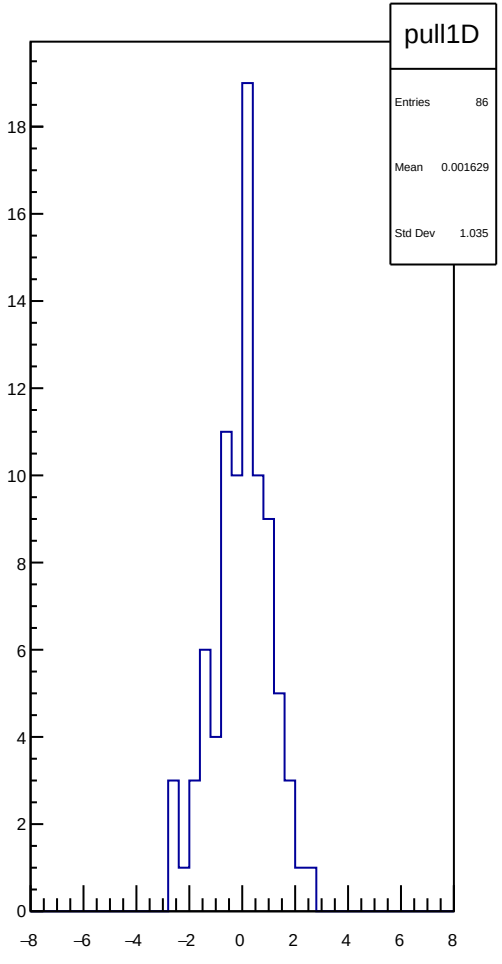

pull1D
Entries 86
Mean 0.001629
Std Dev 1.035

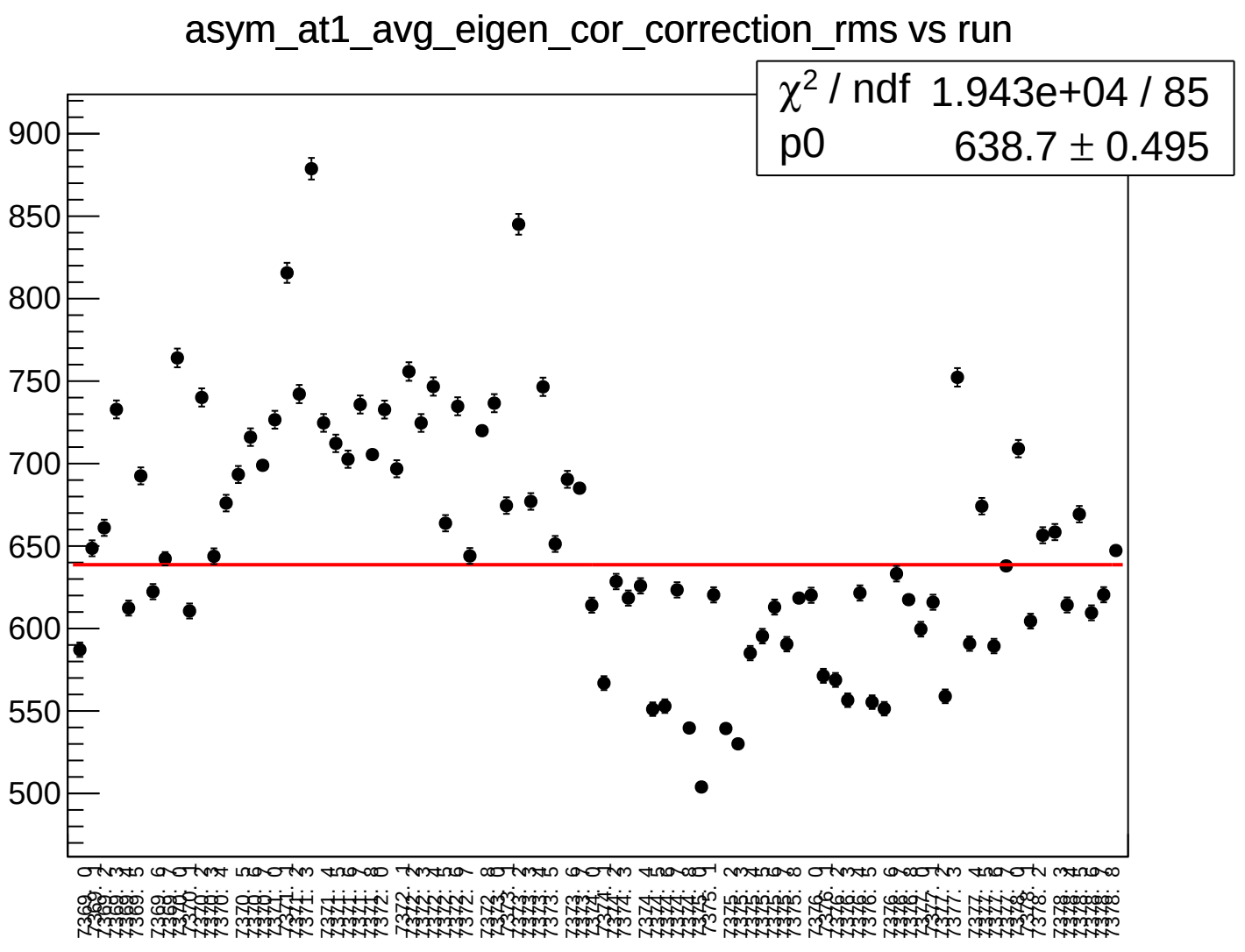

asym_at1_avg_cor_correction_rms vs run
χ^2 / ndf 1.943e+04 / 85
p0 638.7 ± 0.495
900
850
800
750
700
650
600
550
500

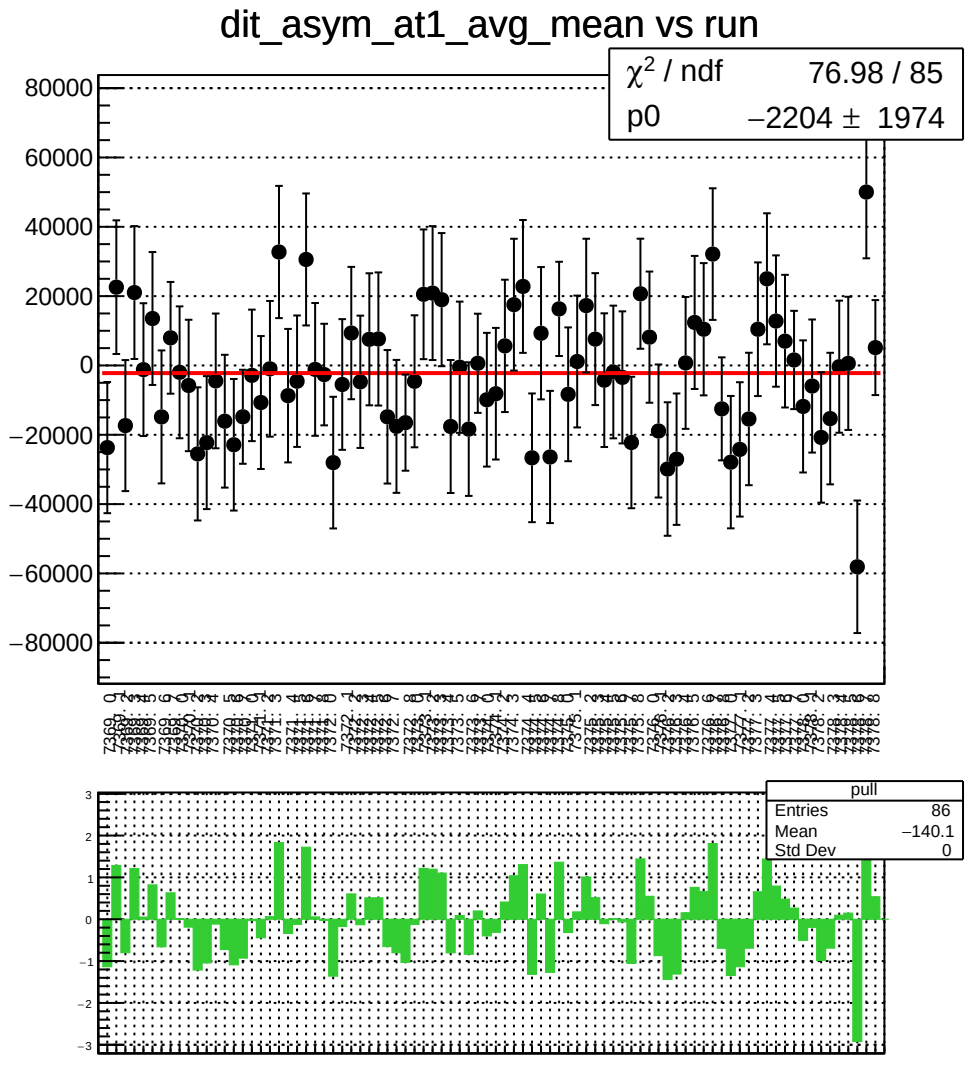

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 79.4 / 85
p0 −2257 ± 1971
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −131.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.003189
Std Dev 0.9609
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

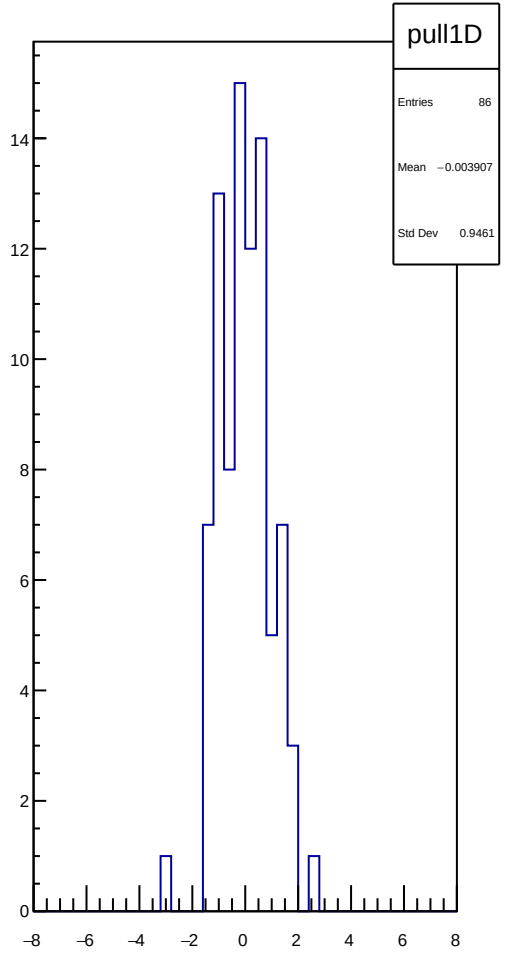

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 95.93 / 85
p0 1808 ± 1.393
1860
1840
1820
1800
1780
1760
1740

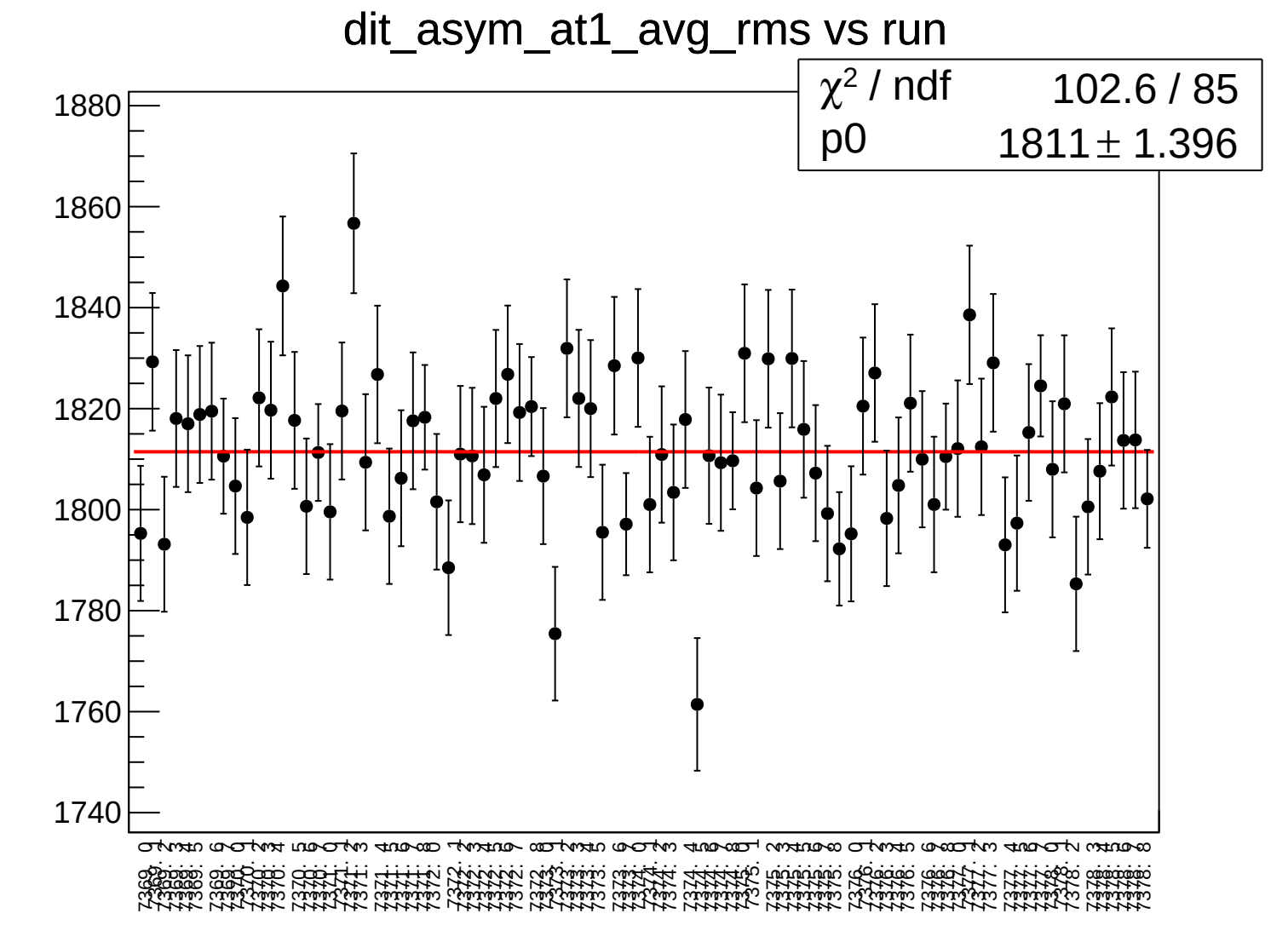

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.16 / 85
p0 −766.5 ± 700.1
pull
Entries 86
Mean −935.8
Std Dev 0

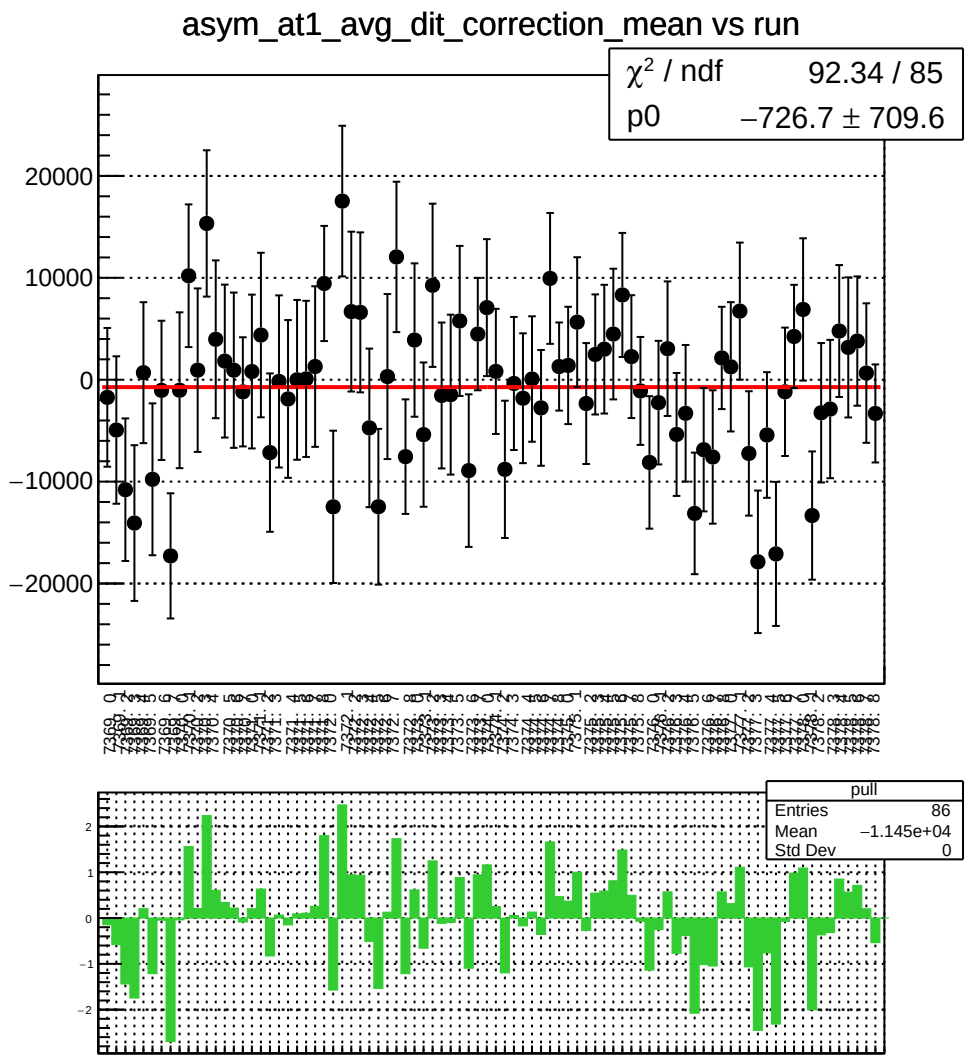

pull1D
Entries 86
Mean 0.001629
Std Dev 1.035

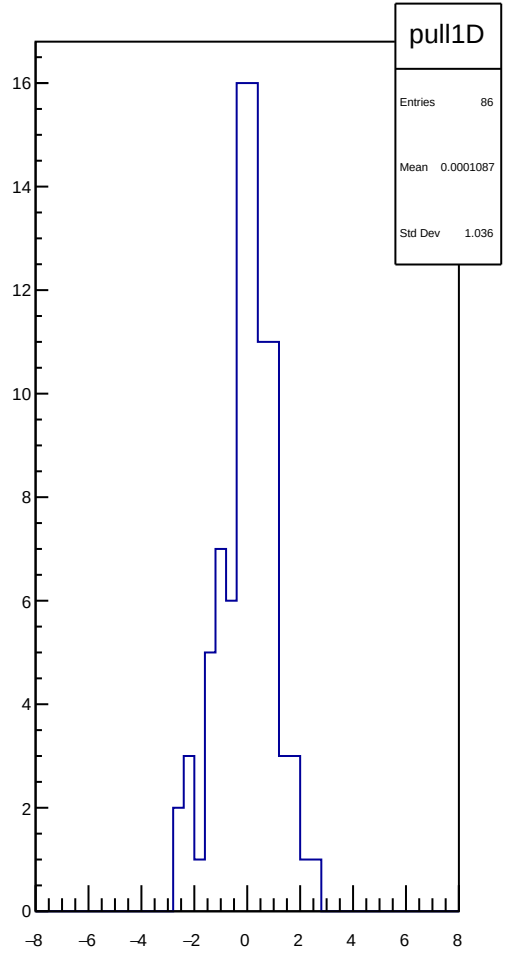

asym_at1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.943e+04 / 85
p0 638.7 ± 0.495
900
850
800
750
700
650
600
550
500

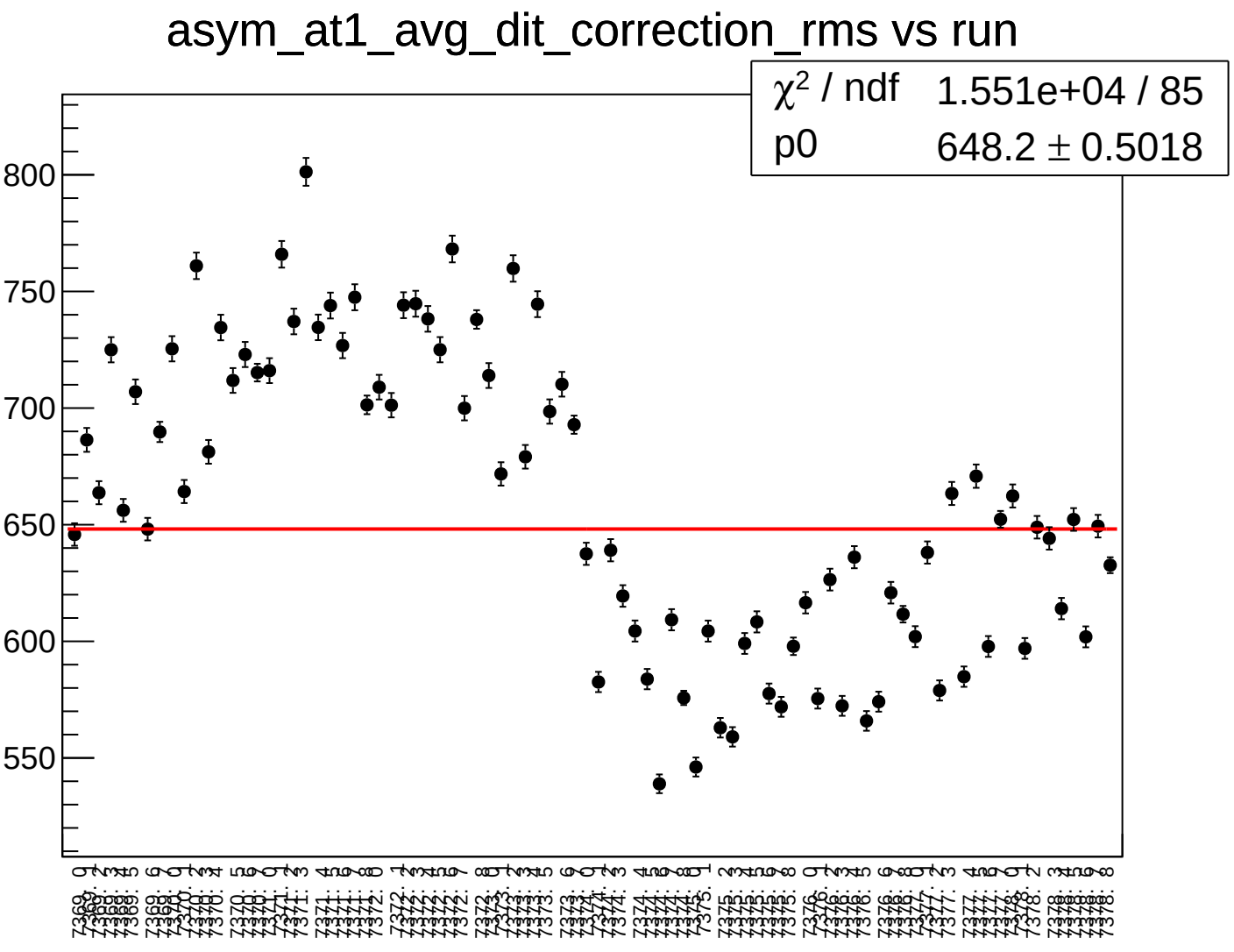

dit_asym_at1_avg_mean vs run
χ² / ndf 76.98 / 85
p0 −2204 ± 1974
pull
Entries 86
Mean −140.1
Std Dev 0

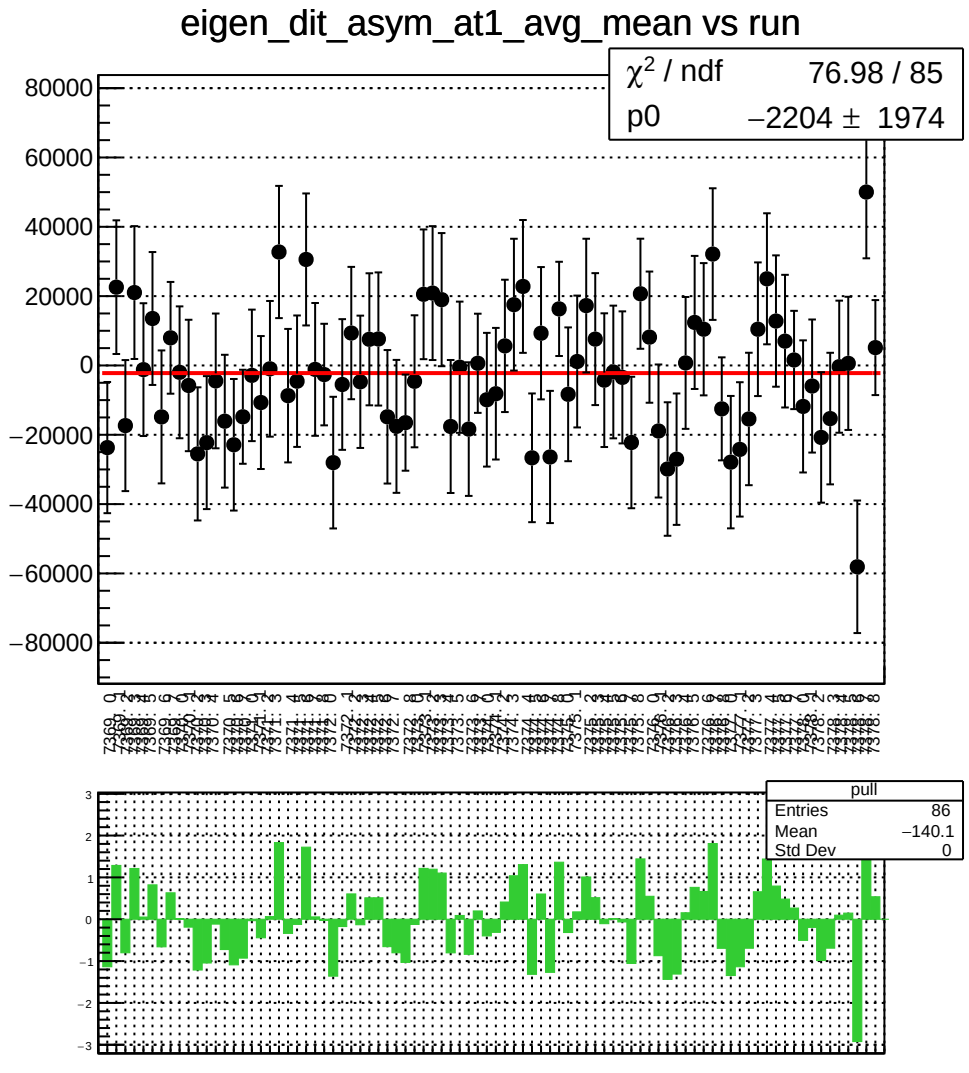

pull1D
Entries 86
Mean −0.003907
Std Dev 0.9461

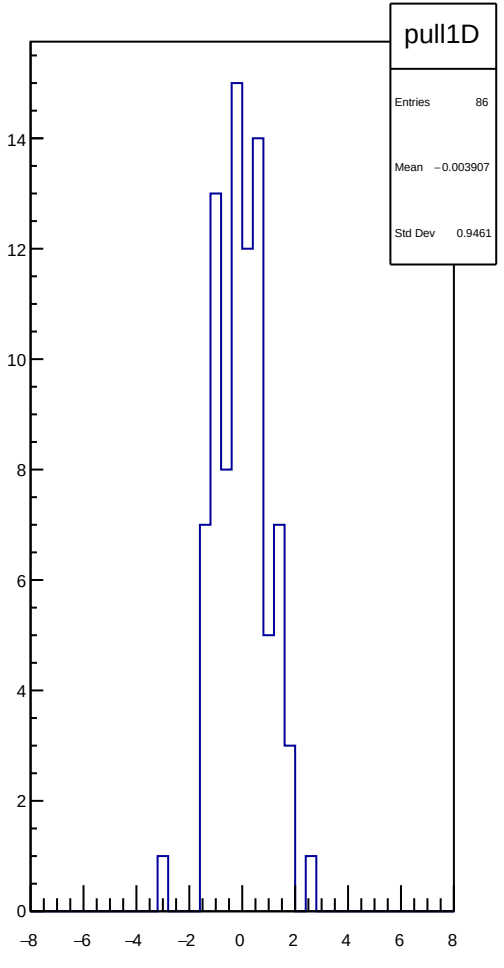

dit_asym_at1_avg_rms vs run
χ² / ndf 102.6 / 85
p0 1811 ± 1.396
1880
1860
1840
1820
1800
1780
1760
1740

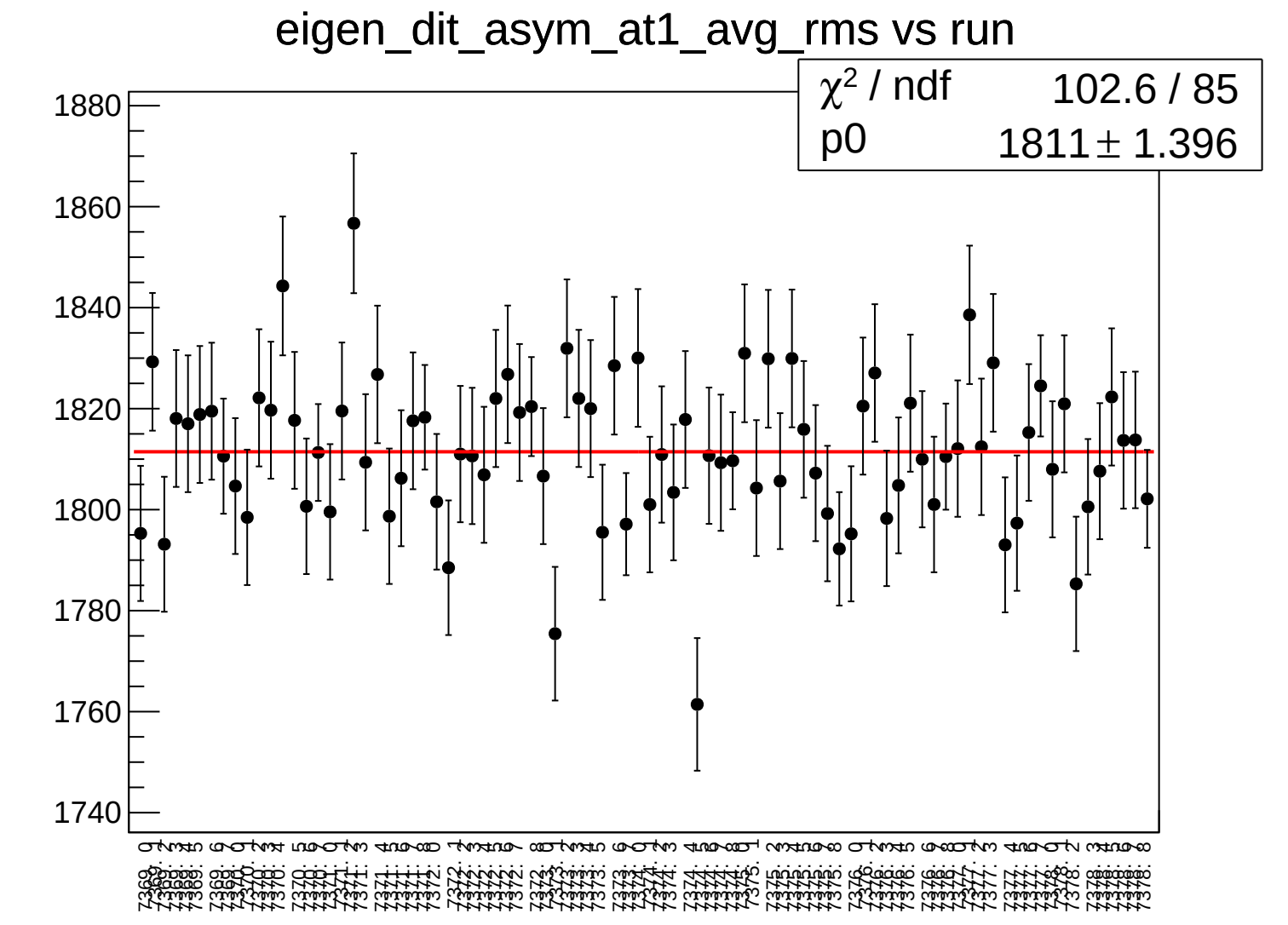

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 92.34 / 85
p0 −726.7 ± 709.6
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −1.145e+04
Std Dev 0
2
1
0
−1
−2

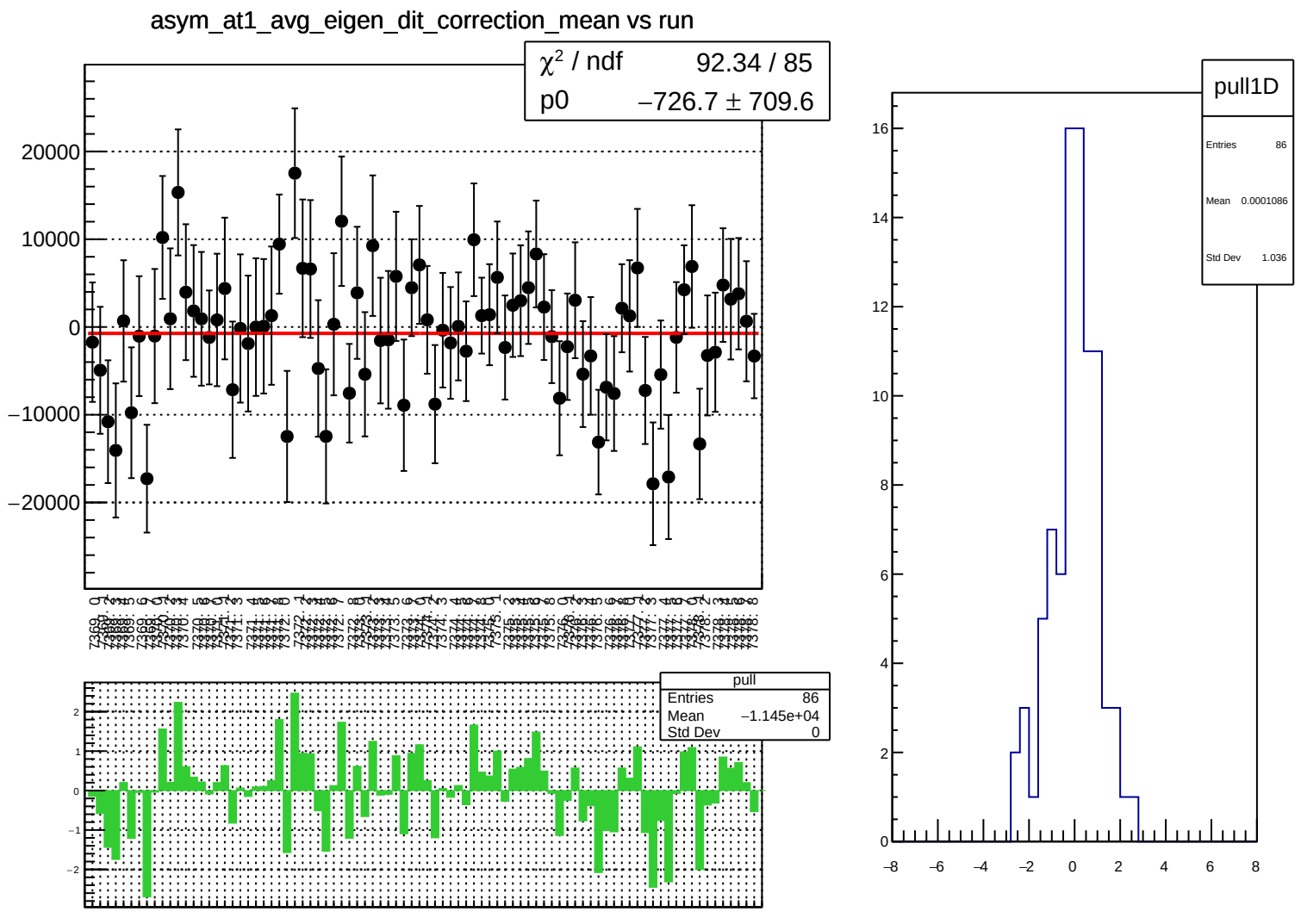

pull1D
Entries 86
Mean 0.0001087
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

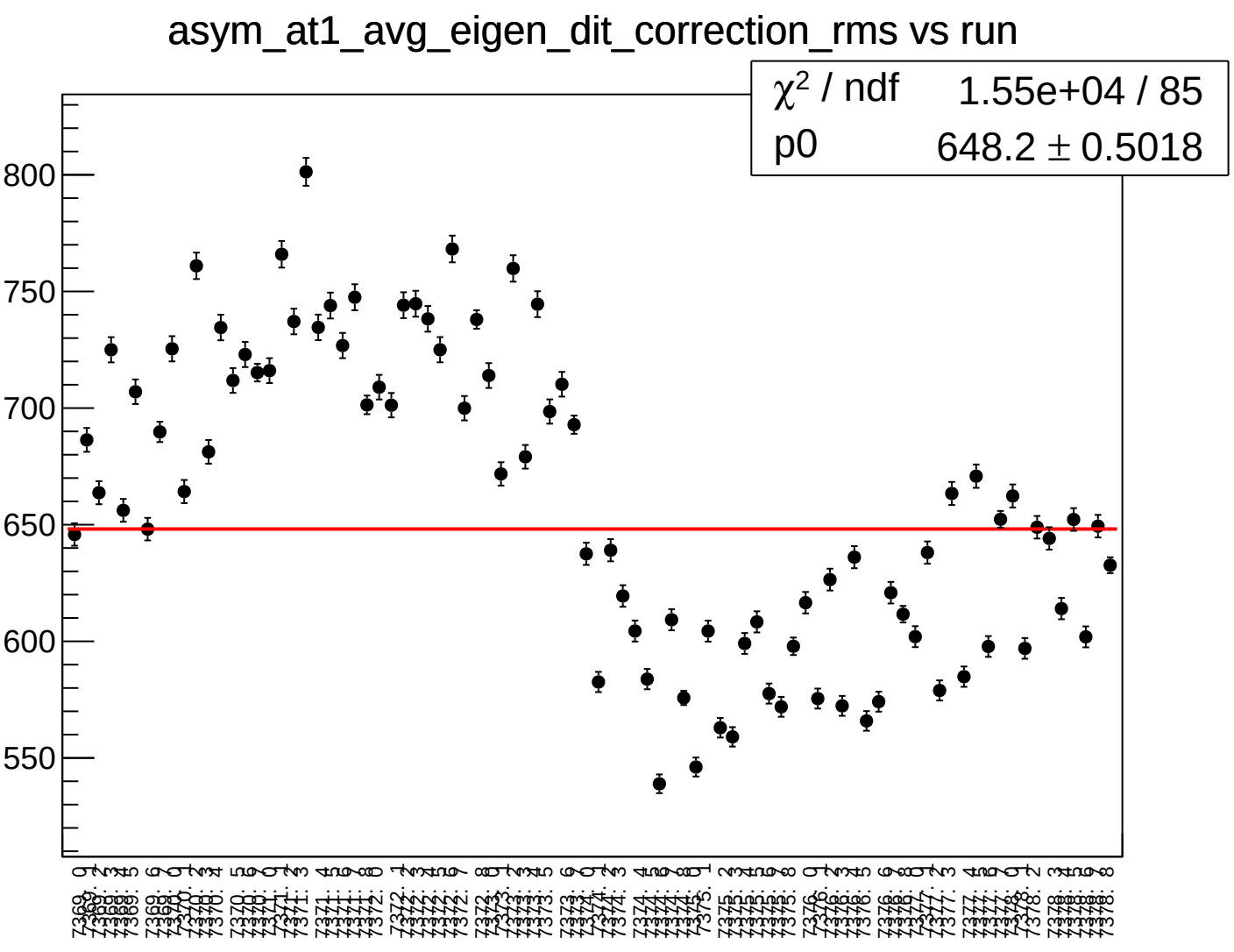

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.551e+04 / 85
p0 648.2 ± 0.5018
800
750
700
650
600
550

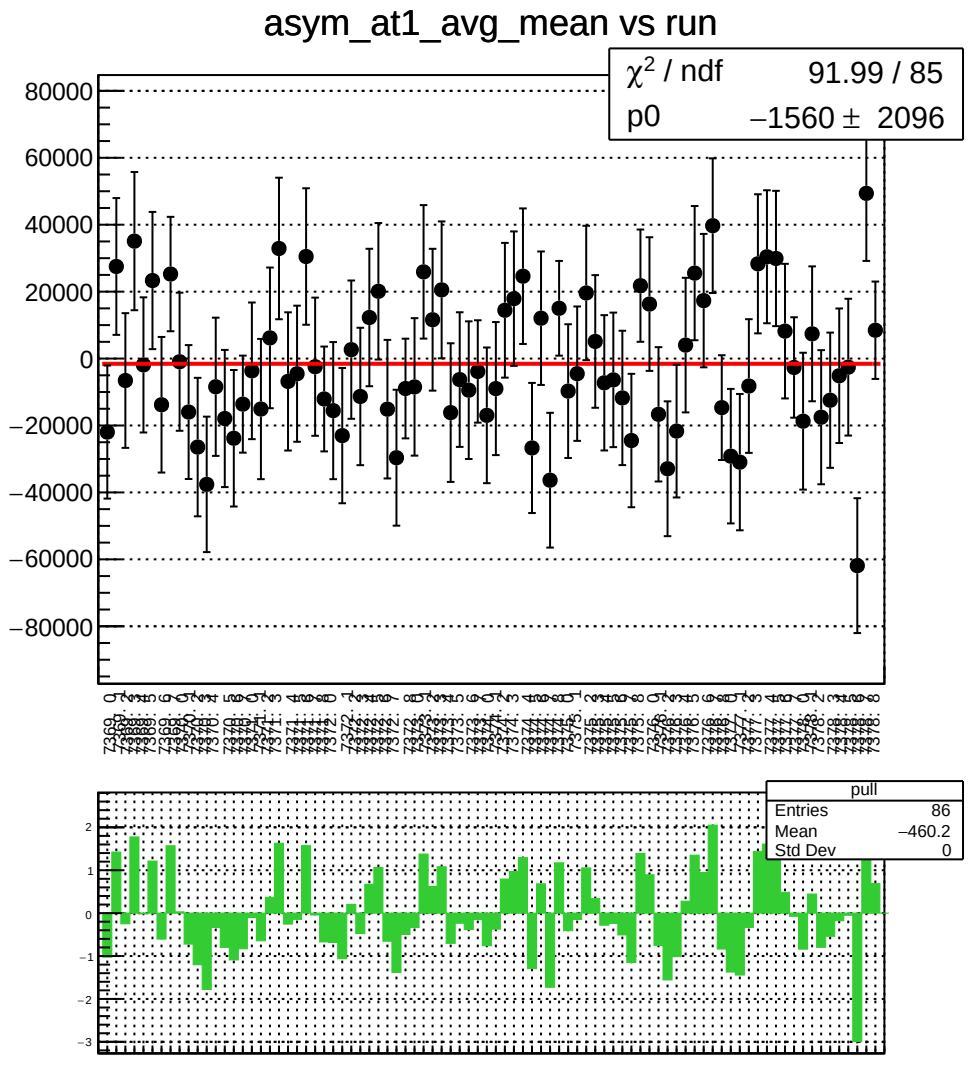

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 76.98 / 85
p0 −2204 ± 1974
pull
Entries 86
Mean −140.1
Std Dev 0

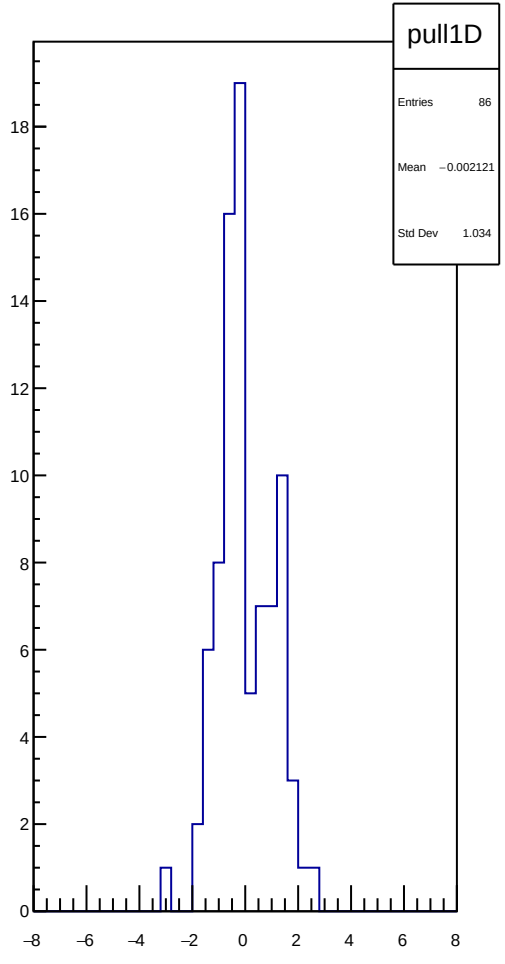

pull1D
Entries 86
Mean −0.003907
Std Dev 0.9461

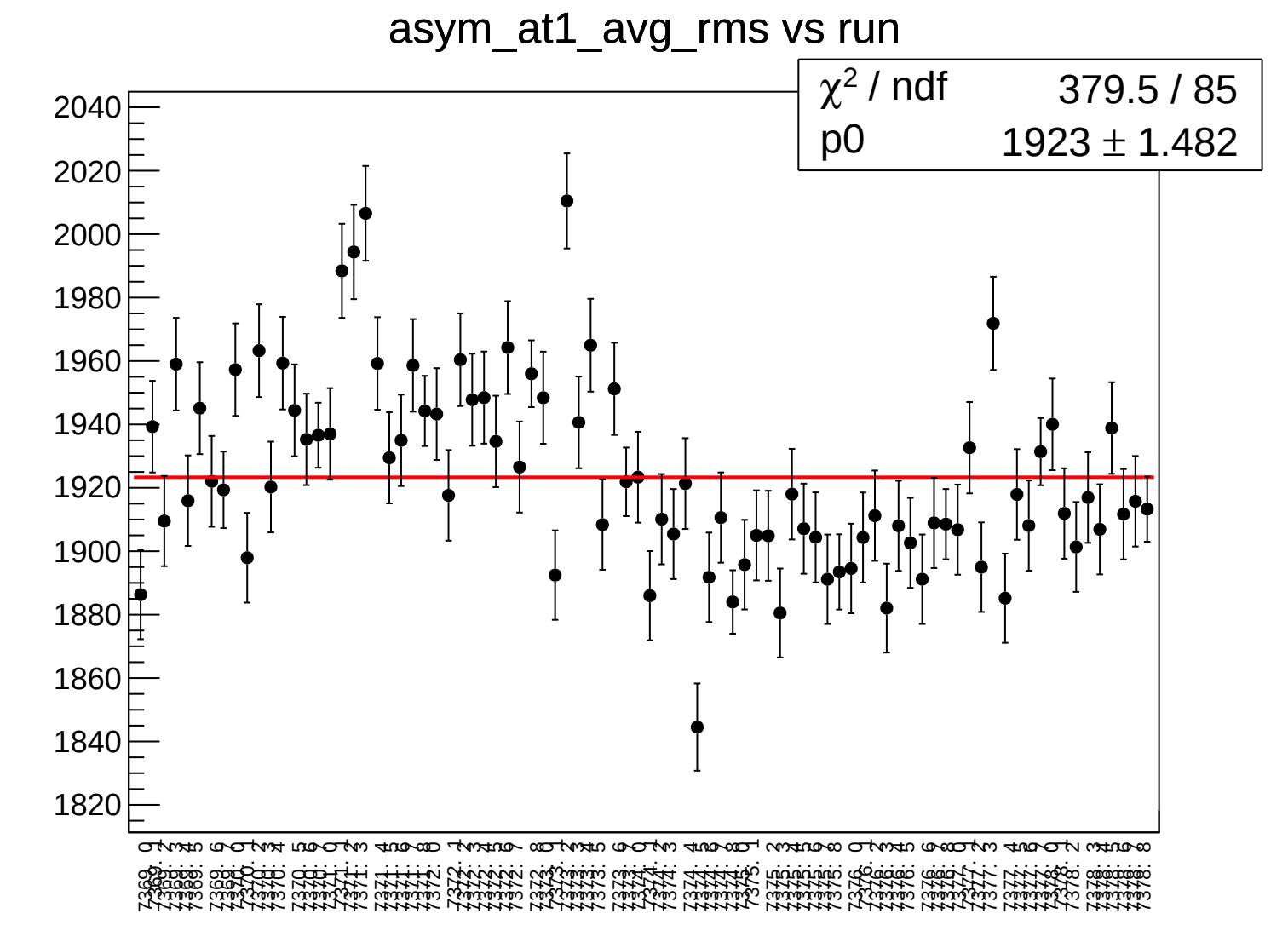

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 102.6 / 85
p0 1811 ± 1.396
1880
1860
1840
1820
1800
1780
1760
1740

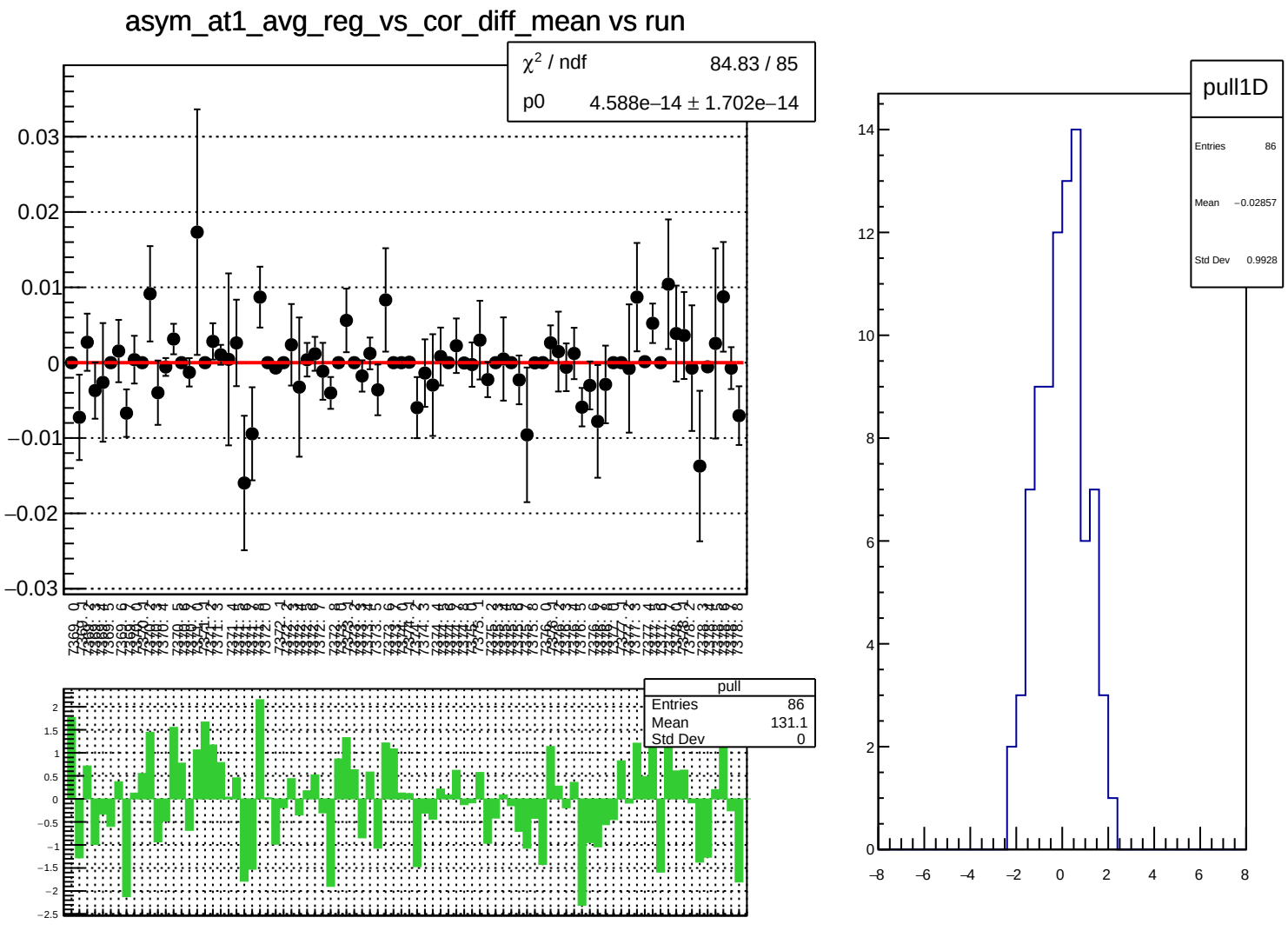

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.34 / 85
p0 −726.7 ± 709.6
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −1.145e+04
Std Dev 0
pull1D
Entries 86
Mean 0.0001086
Std Dev 1.036

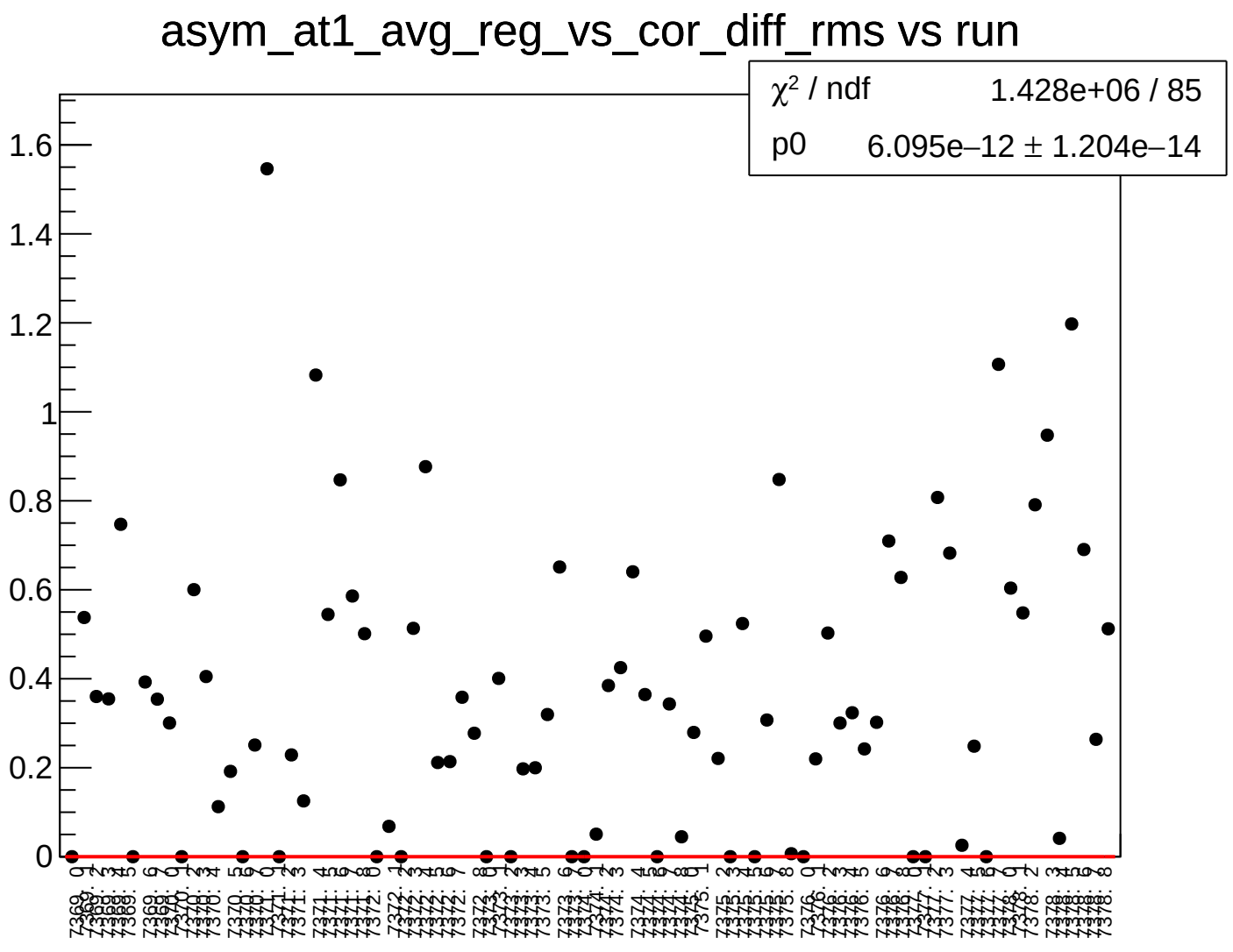

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.55e+04 / 85
p0 648.2 ± 0.5018
800
750
700
650
600
550

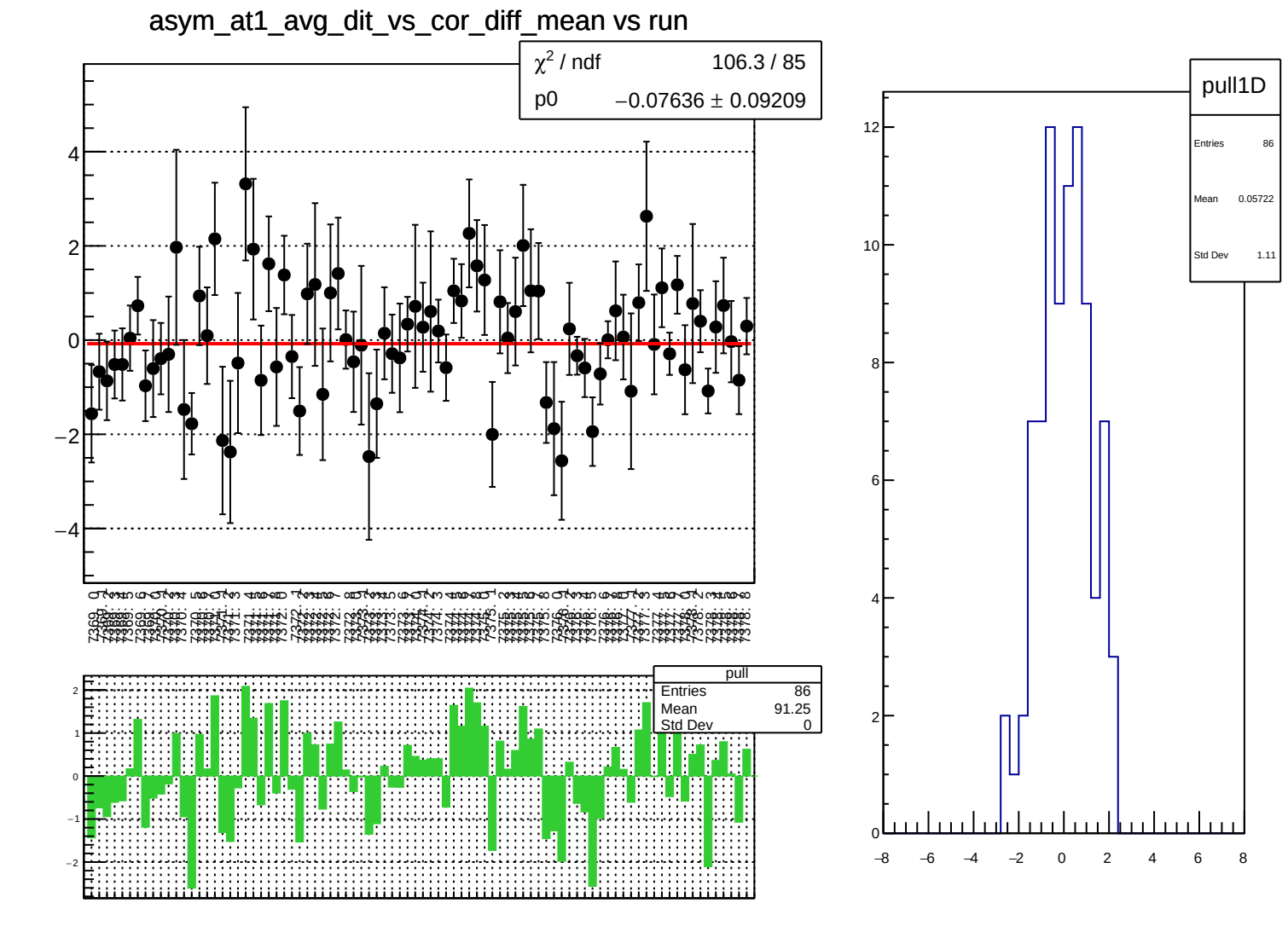

asym_at1_avg_mean vs run
χ² / ndf 91.99 / 85
p0 −1560 ± 2096
pull
Entries 86
Mean −460.2
Std Dev 0

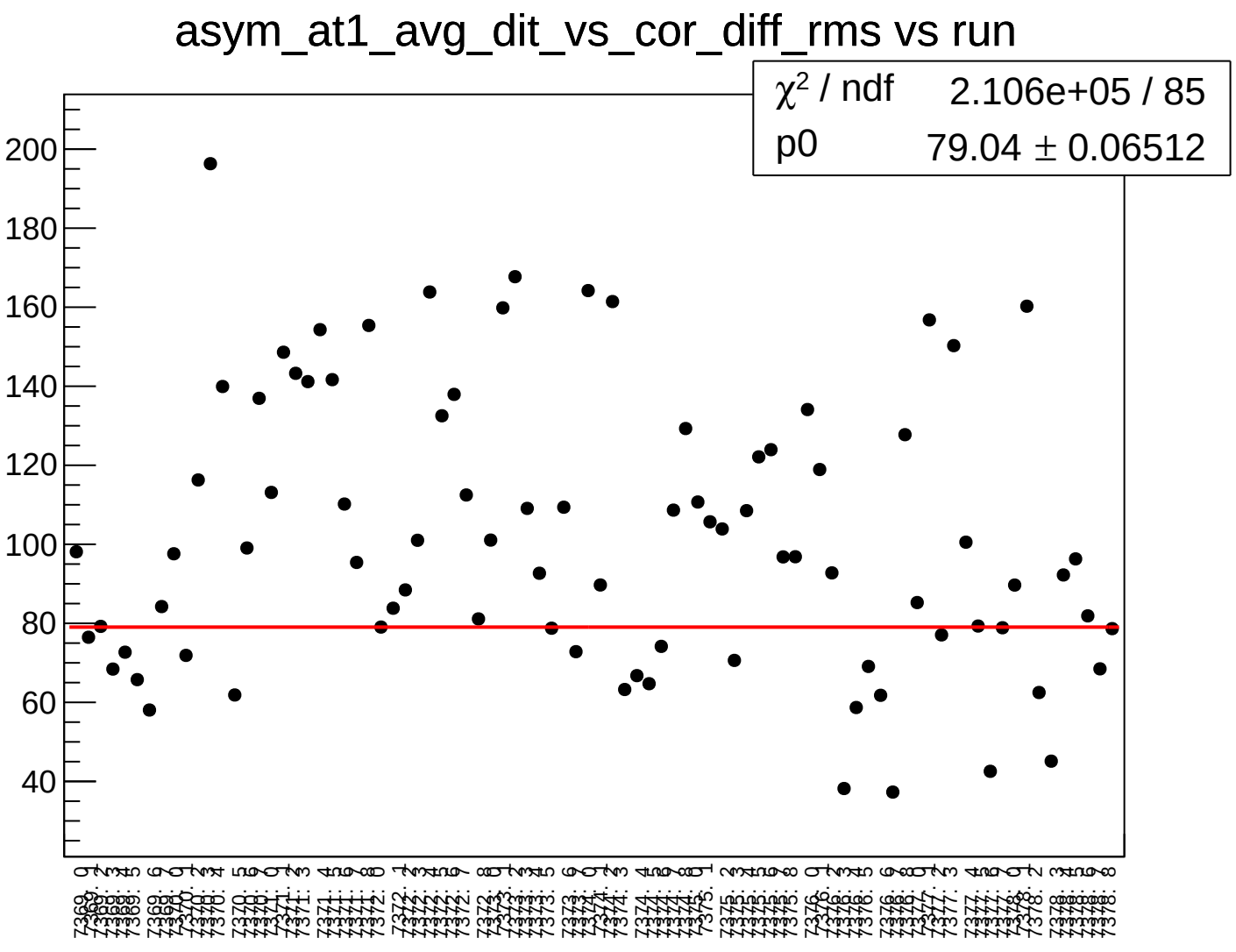

pull1D
Entries 86
Mean −0.002121
Std Dev 1.034

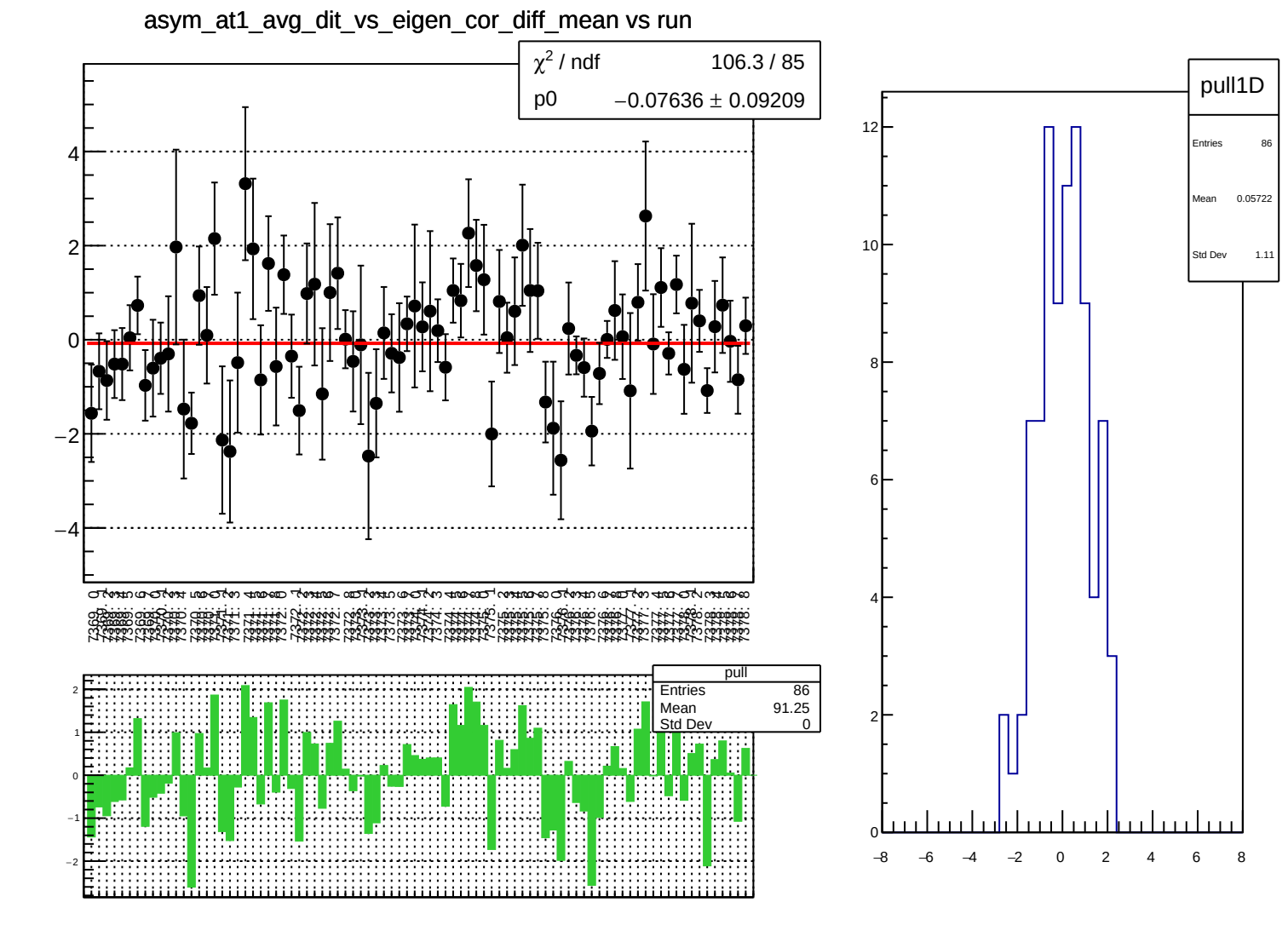

asym_at1_avg_rms vs run
χ^2 / ndf 379.5 / 85
p0 1923 ± 1.482
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

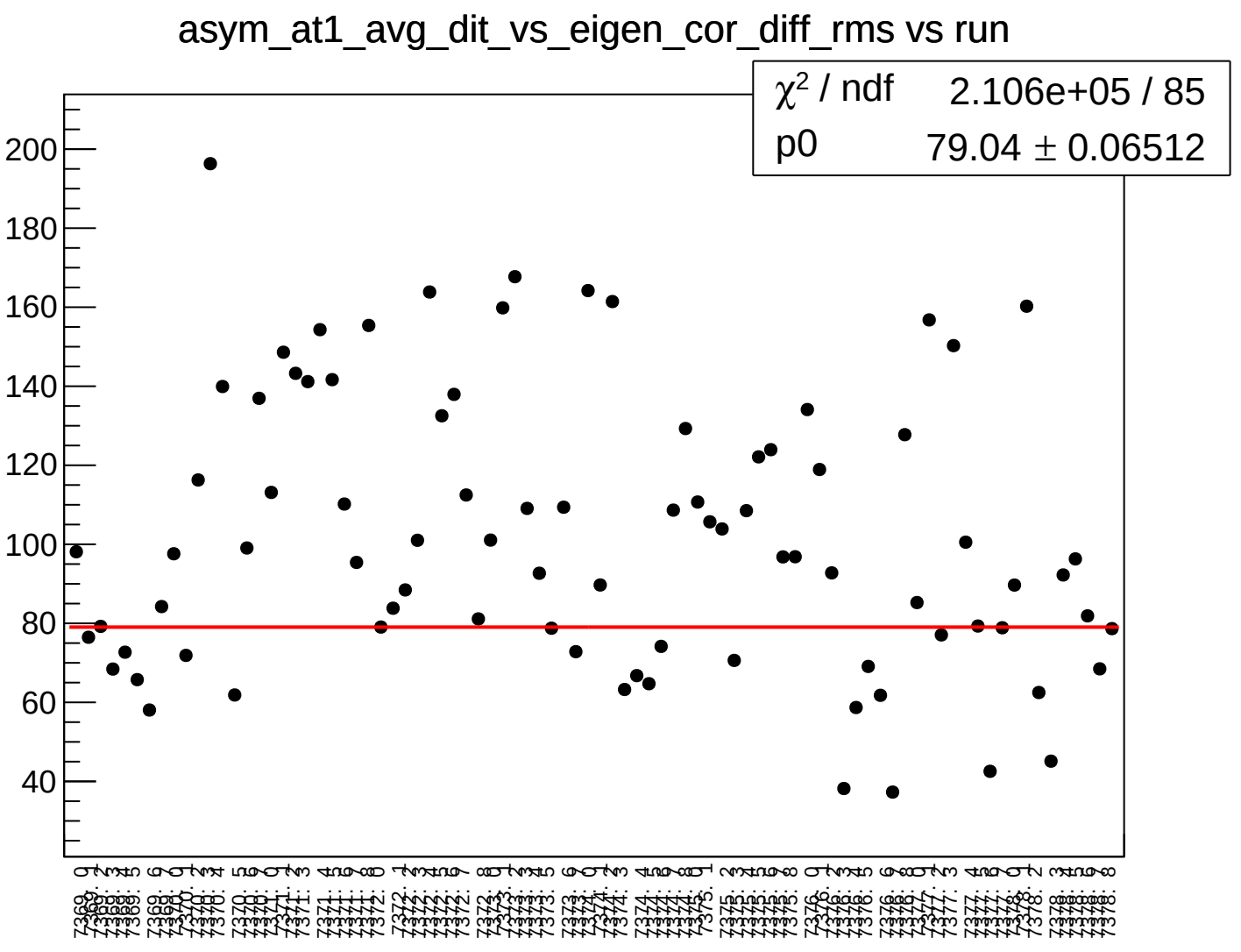

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.83 / 85
p0 4.588e−14 ± 1.702e−14
pull
Entries 86
Mean 131.1
Std Dev 0
pull1D
Entries 86
Mean −0.02857
Std Dev 0.9928

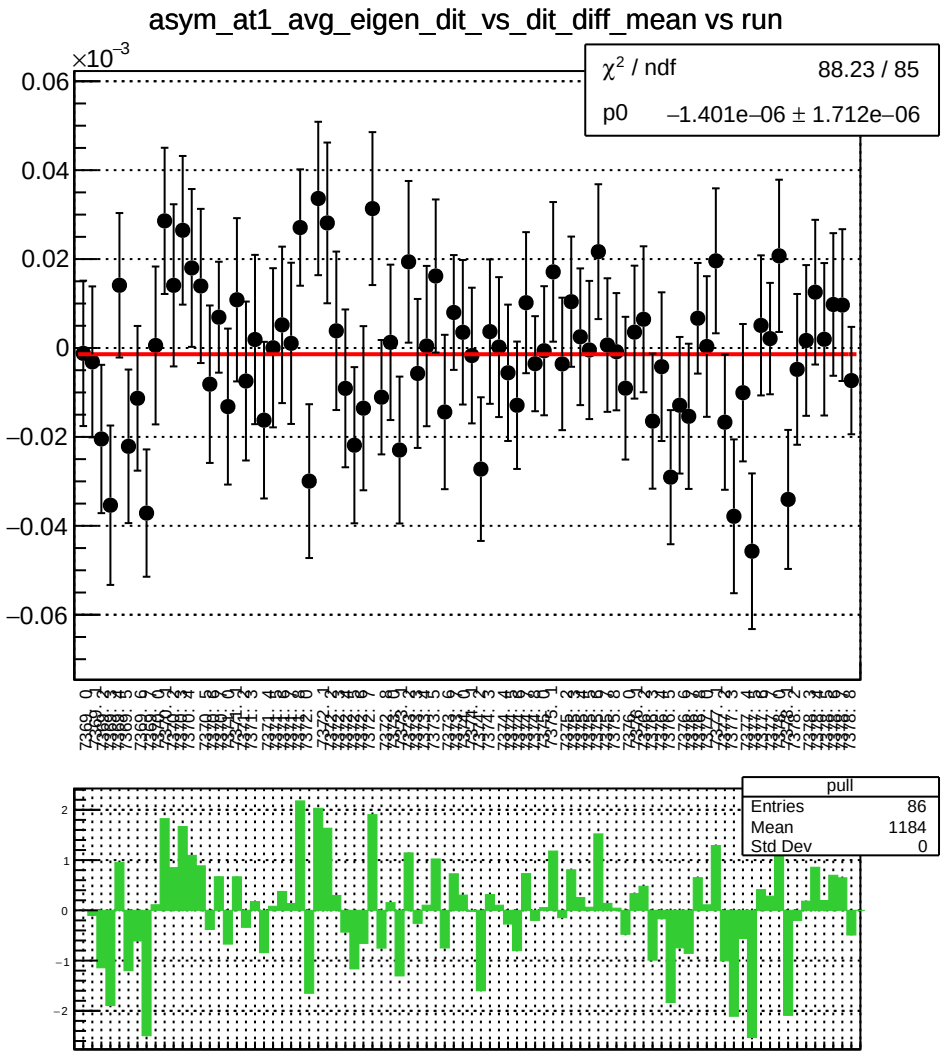

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.428e+06 / 85
p0 6.095e−12 ± 1.204e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

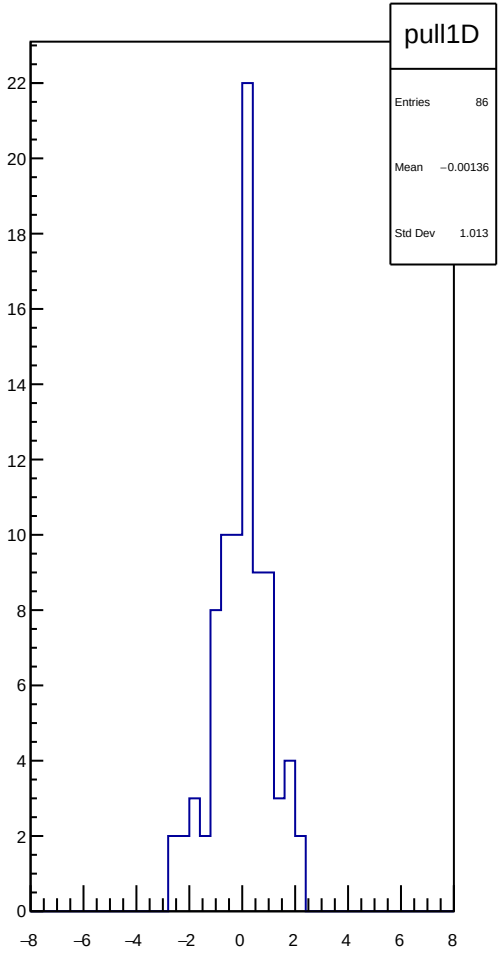

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 85
p0 −0.07636 ± 0.09209
pull
Entries 86
Mean 91.25
Std Dev 0
pull1D
Entries 86
Mean 0.05722
Std Dev 1.11

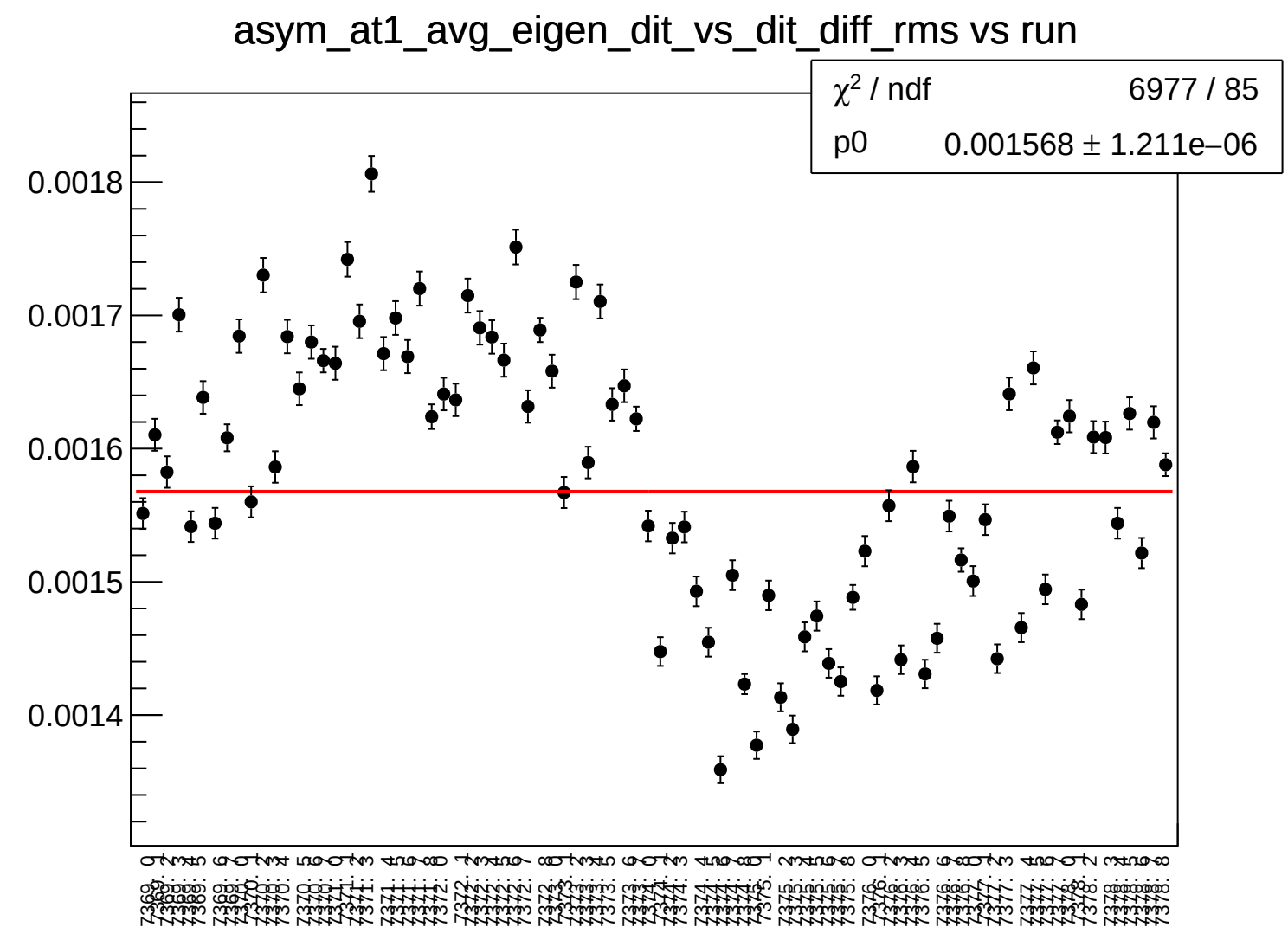

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.106e+05 / 85
p0 79.04 ± 0.06512
200
180
160
140
120
100
80
60
40

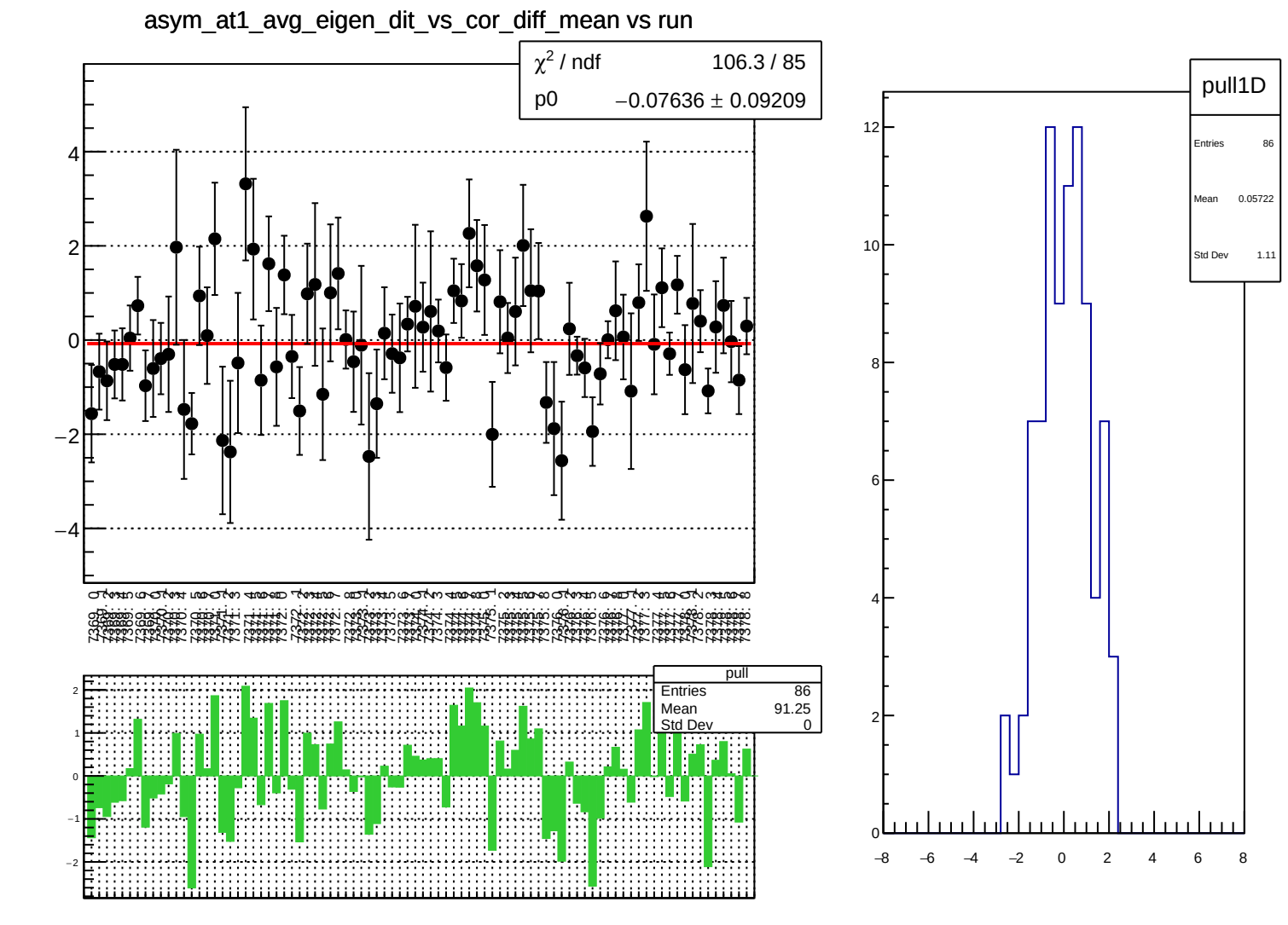

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 85
p0 −0.07636 ± 0.09209
pull
Entries 86
Mean 91.25
Std Dev 0
pull1D
Entries 86
Mean 0.05722
Std Dev 1.11

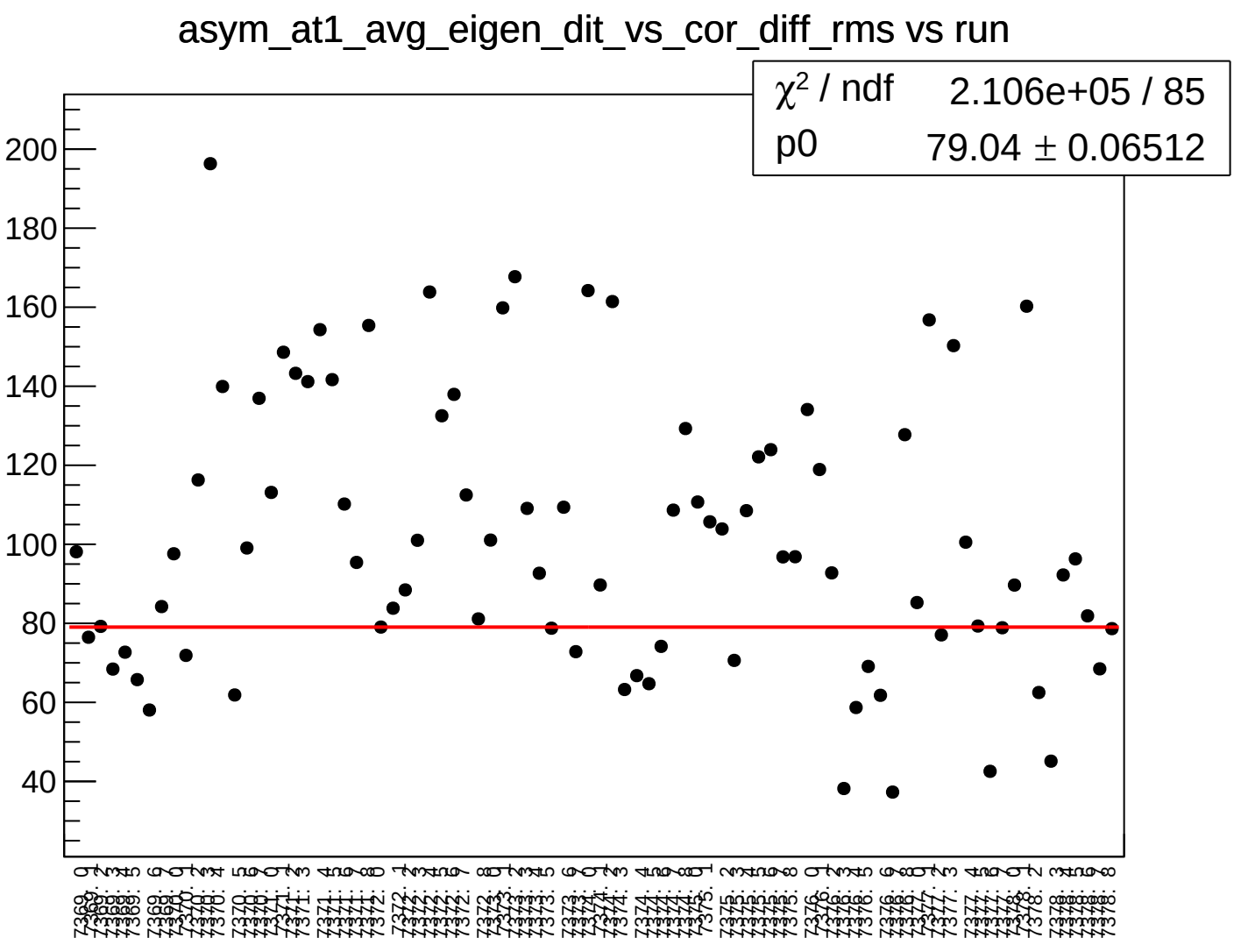

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.106e+05 / 85
p0 79.04 ± 0.06512
200
180
160
140
120
100
80
60
40

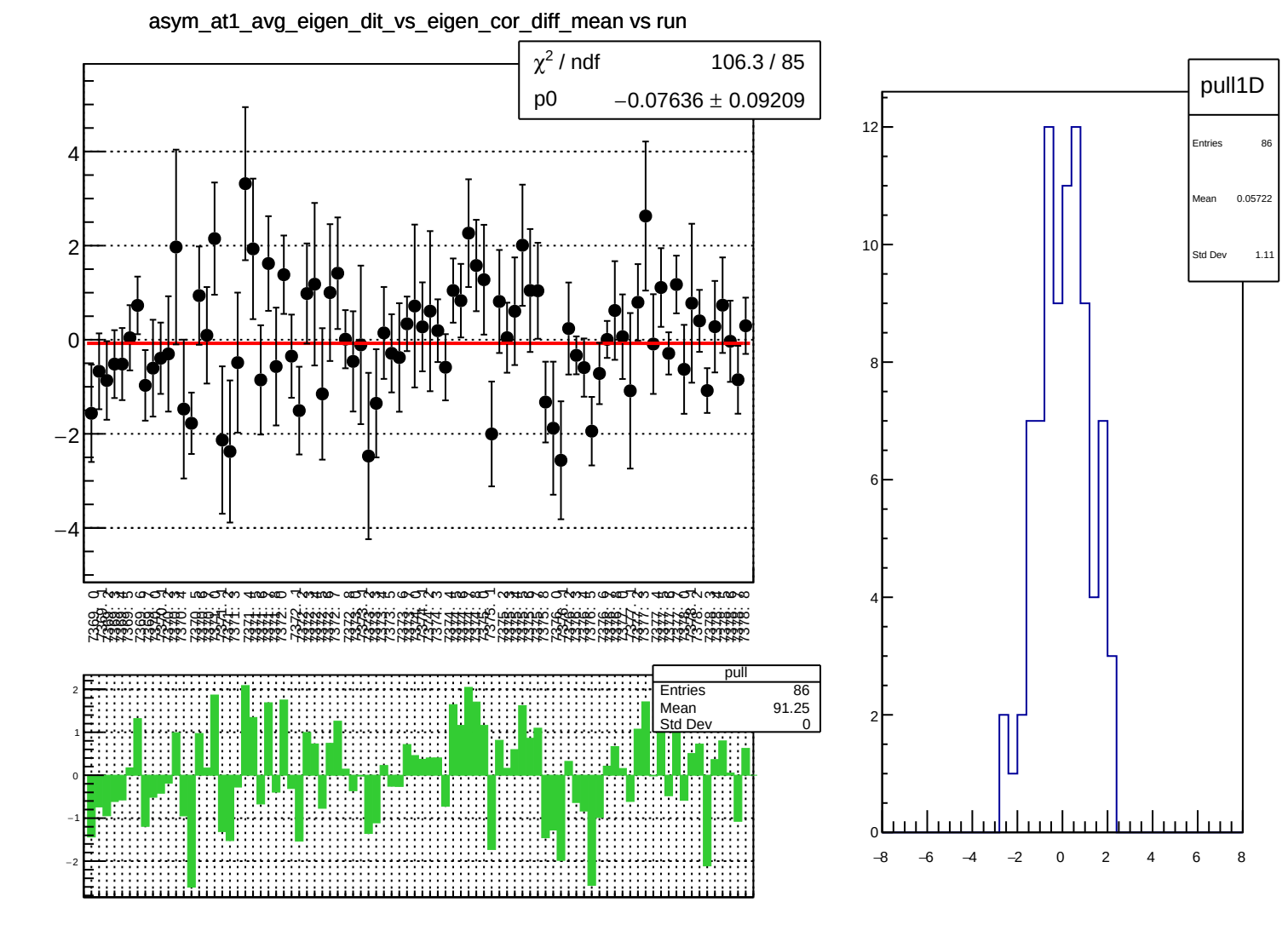

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.23 / 85
p0 −1.401e−06 ± 1.712e−06
pull
Entries 86
Mean 1184
Std Dev 0

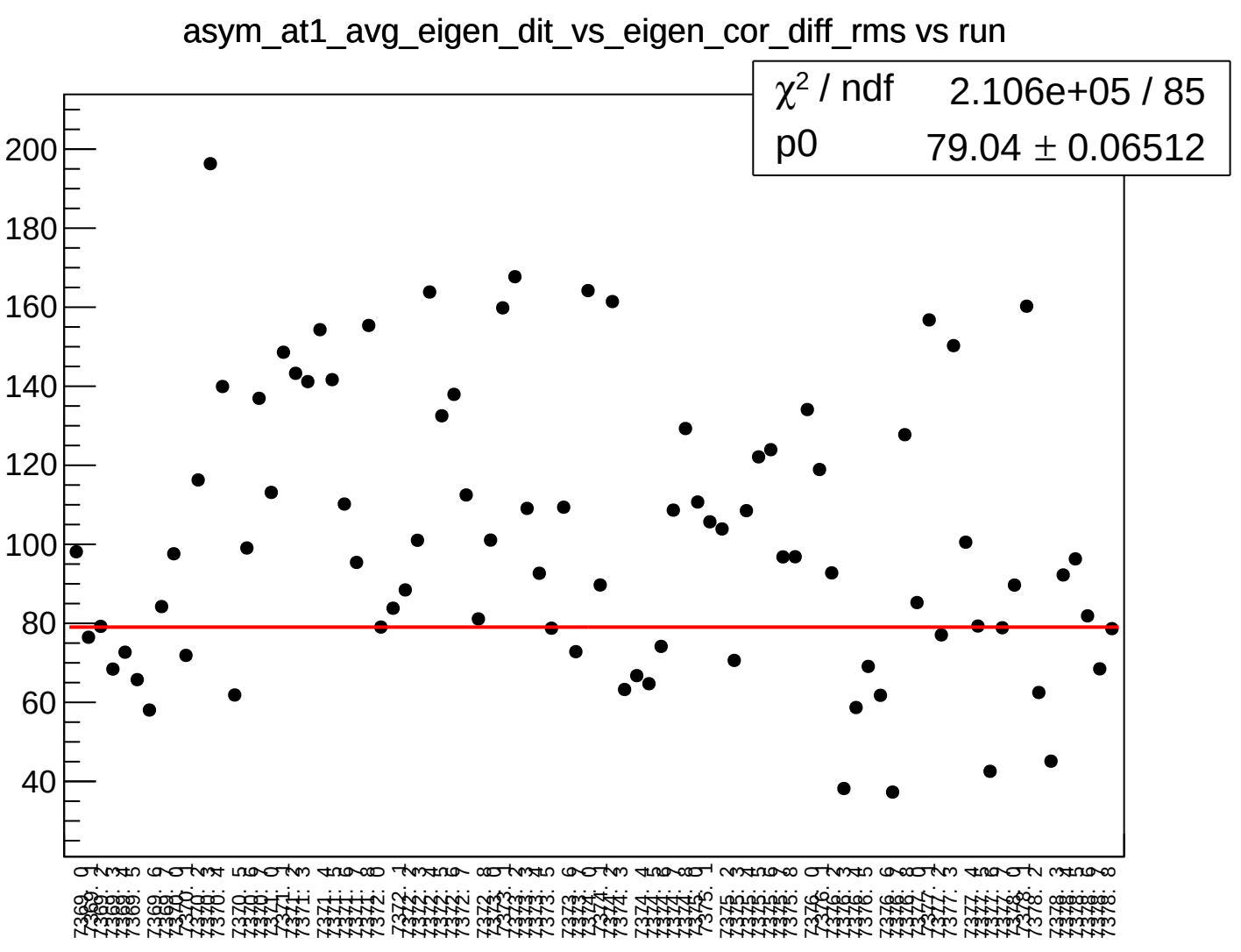

pull1D
Entries 86
Mean −0.00136
Std Dev 1.013

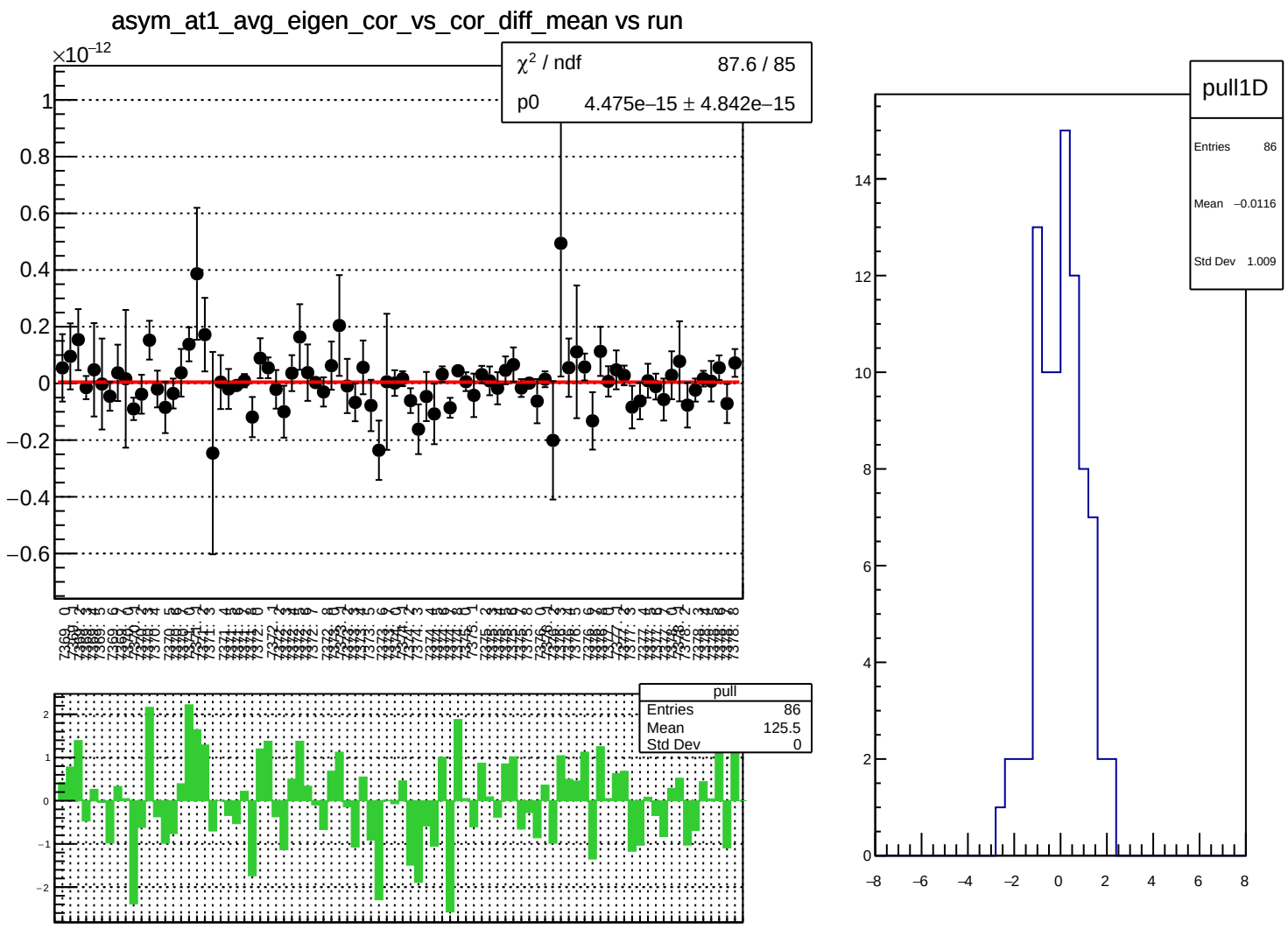

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6977 / 85
p0 0.001568 ± 1.211e−06
0.0018
0.0017
0.0016
0.0015
0.0014

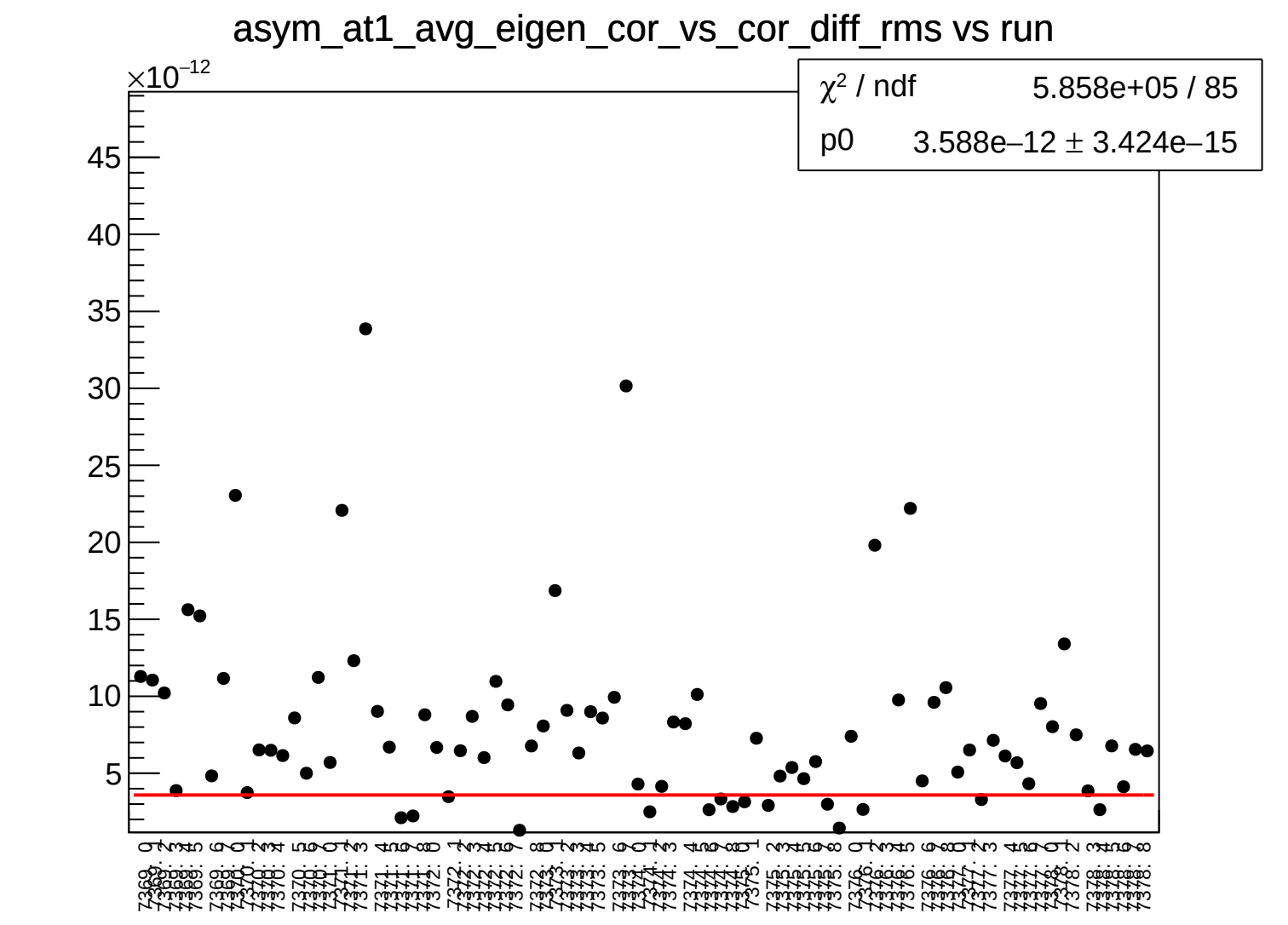

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 85
p0 −0.07636 ± 0.09209
pull
Entries 86
Mean 91.25
Std Dev 0
pull1D
Entries 86
Mean 0.05722
Std Dev 1.11

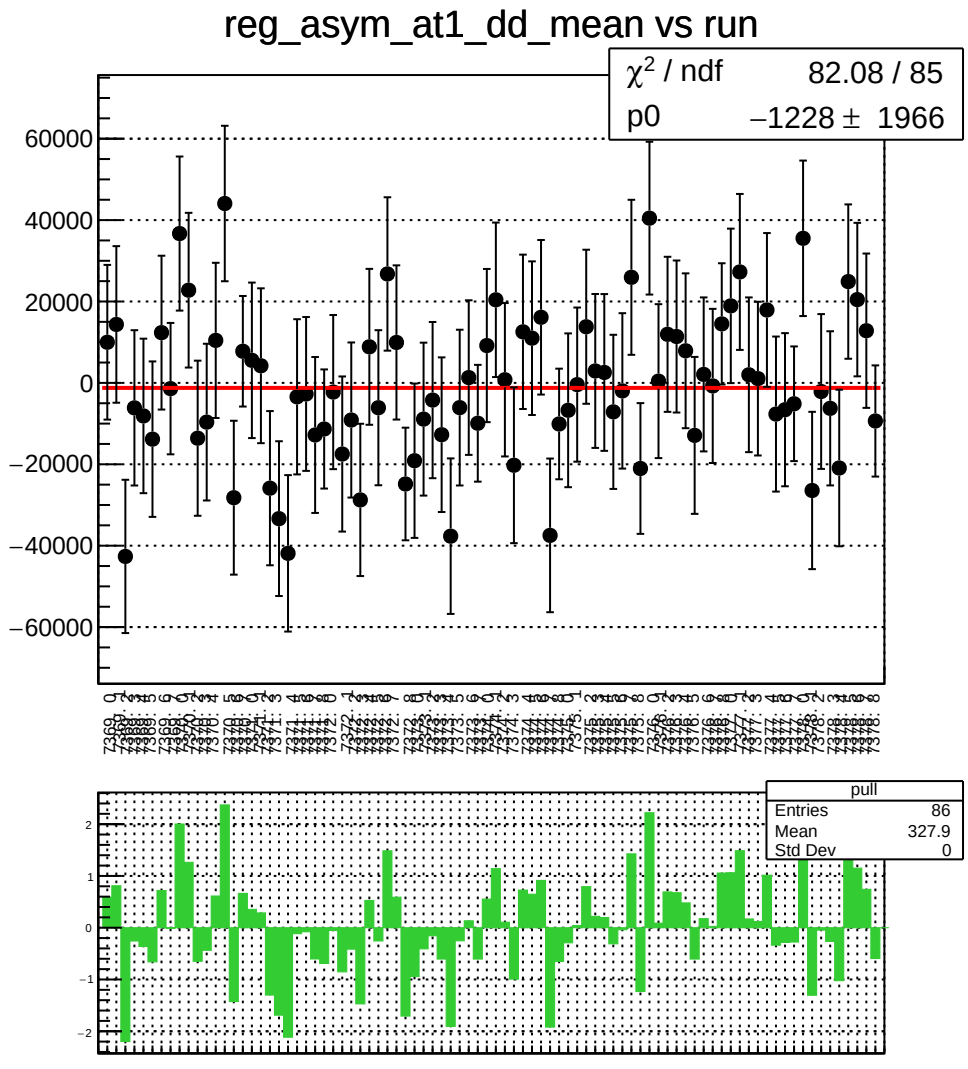

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.106e+05 / 85
p0 79.04 ± 0.06512
200
180
160
140
120
100
80
60
40

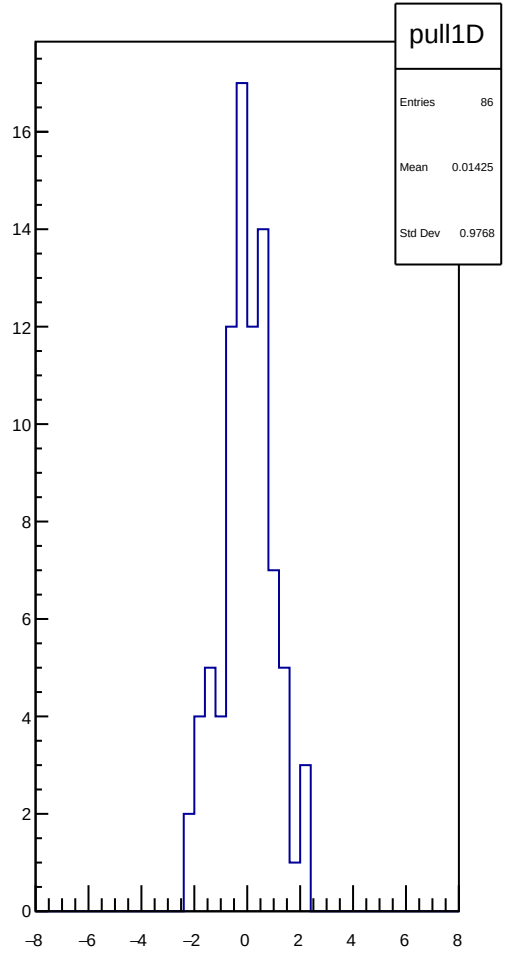

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 85
p0 −0.07636 ± 0.09209
pull
Entries 86
Mean 91.25
Std Dev 0
pull1D
Entries 86
Mean 0.05722
Std Dev 1.11

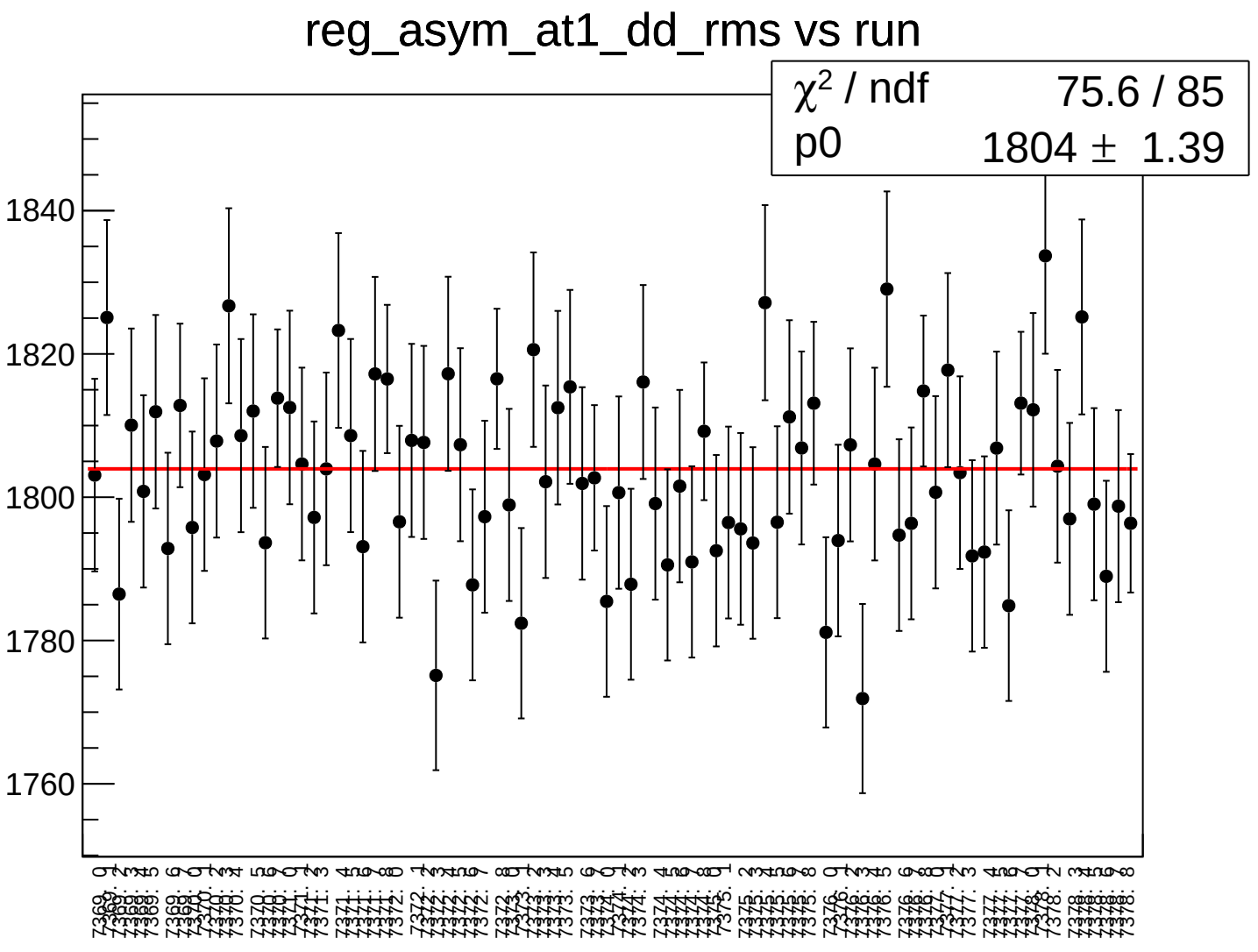

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.106e+05 / 85
p0 79.04 ± 0.06512
200
180
160
140
120
100
80
60
40

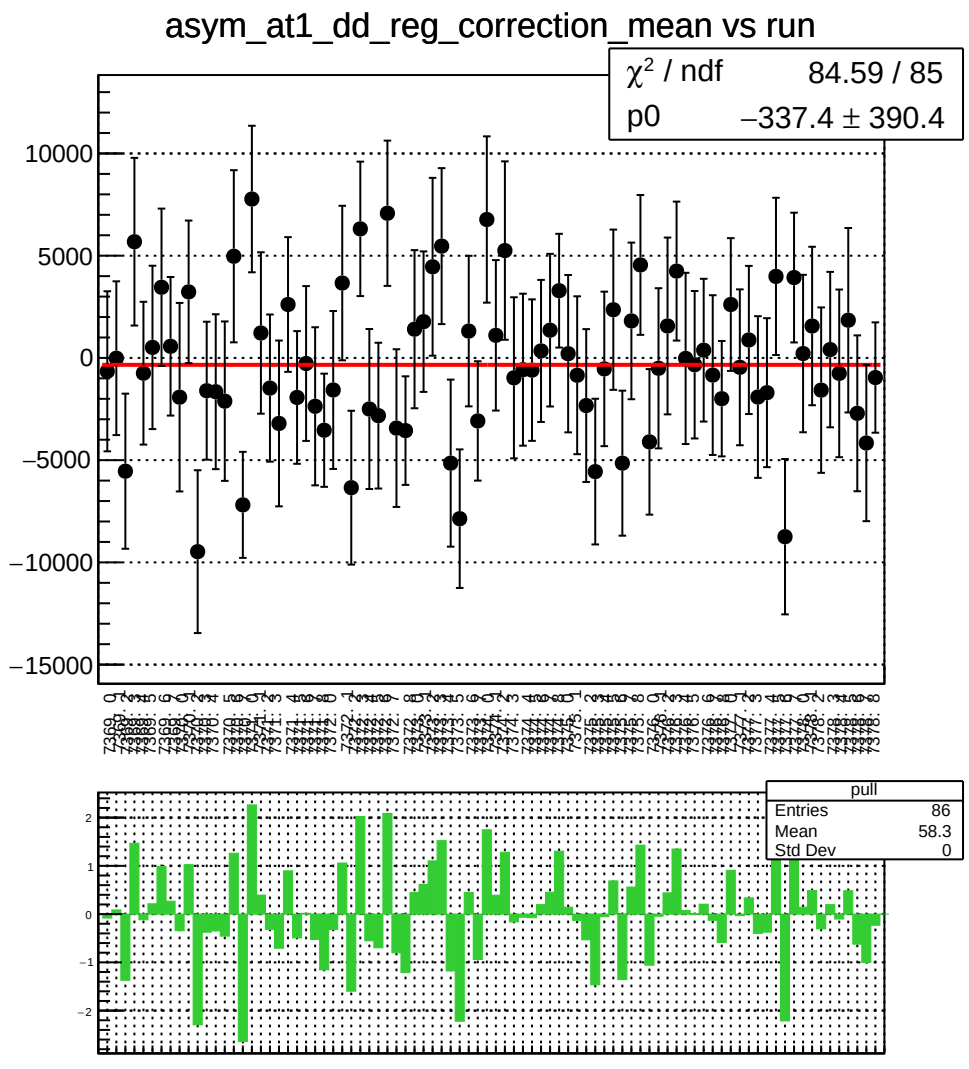

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.6 / 85
p0 4.475e−15 ± 4.842e−15
pull
Entries 86
Mean 125.5
Std Dev 0
pull1D
Entries 86
Mean −0.0116
Std Dev 1.009

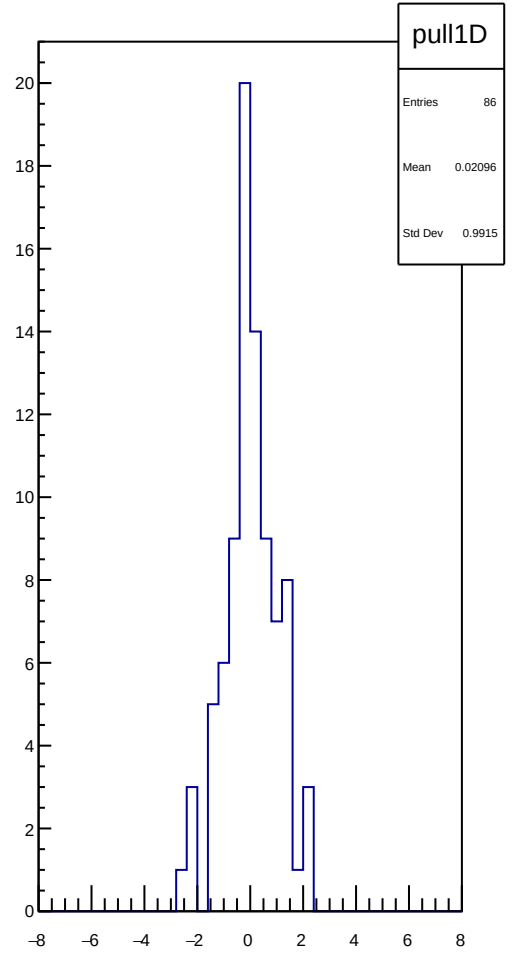

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.858e+05 / 85
p0 3.588e−12 ± 3.424e−15
45
40
35
30
25
20
15
10
5

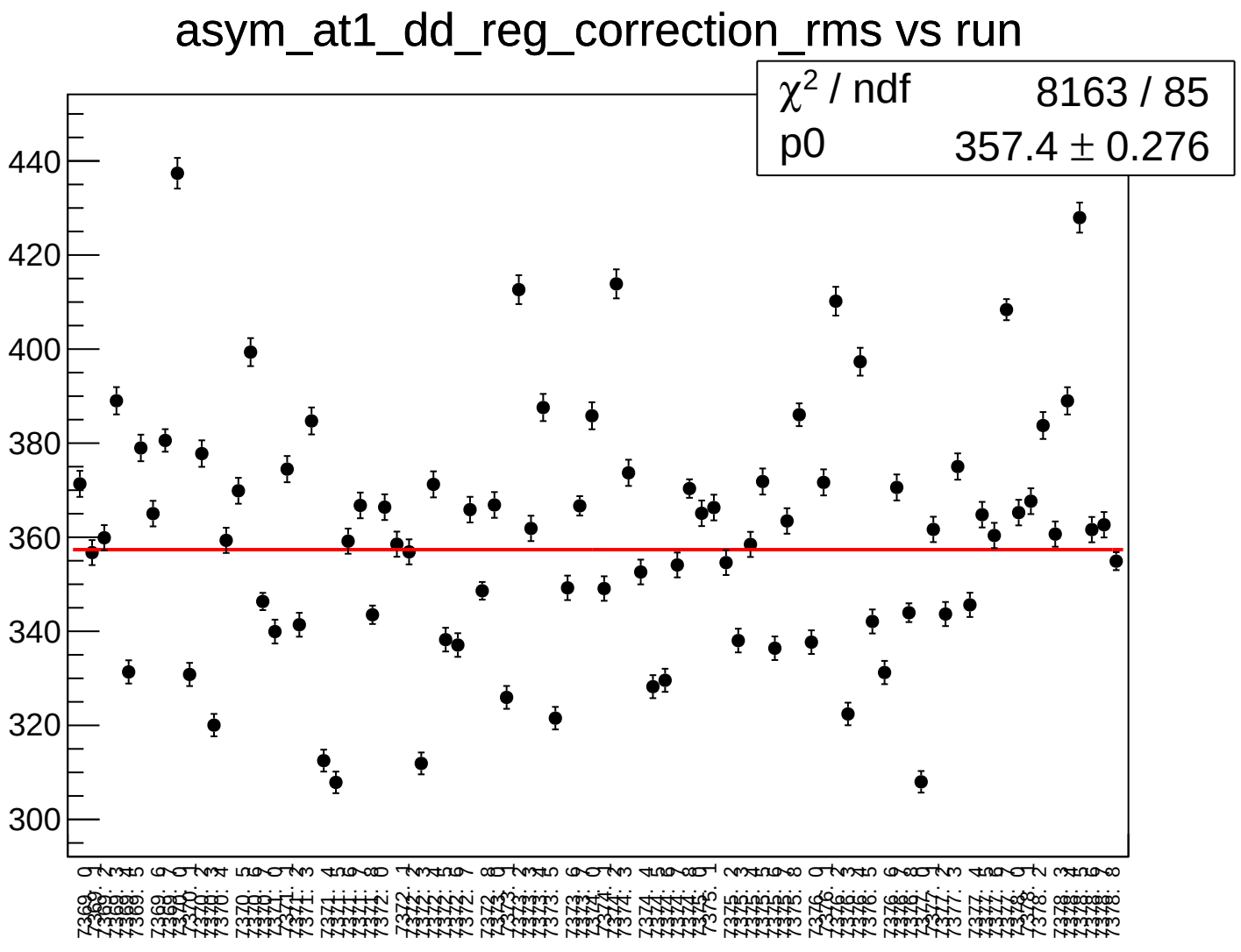

reg_asym_at1_dd_mean vs run
χ² / ndf 82.08 / 85
p0 −1228 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 327.9
Std Dev 0
2
1
0
−1
−2

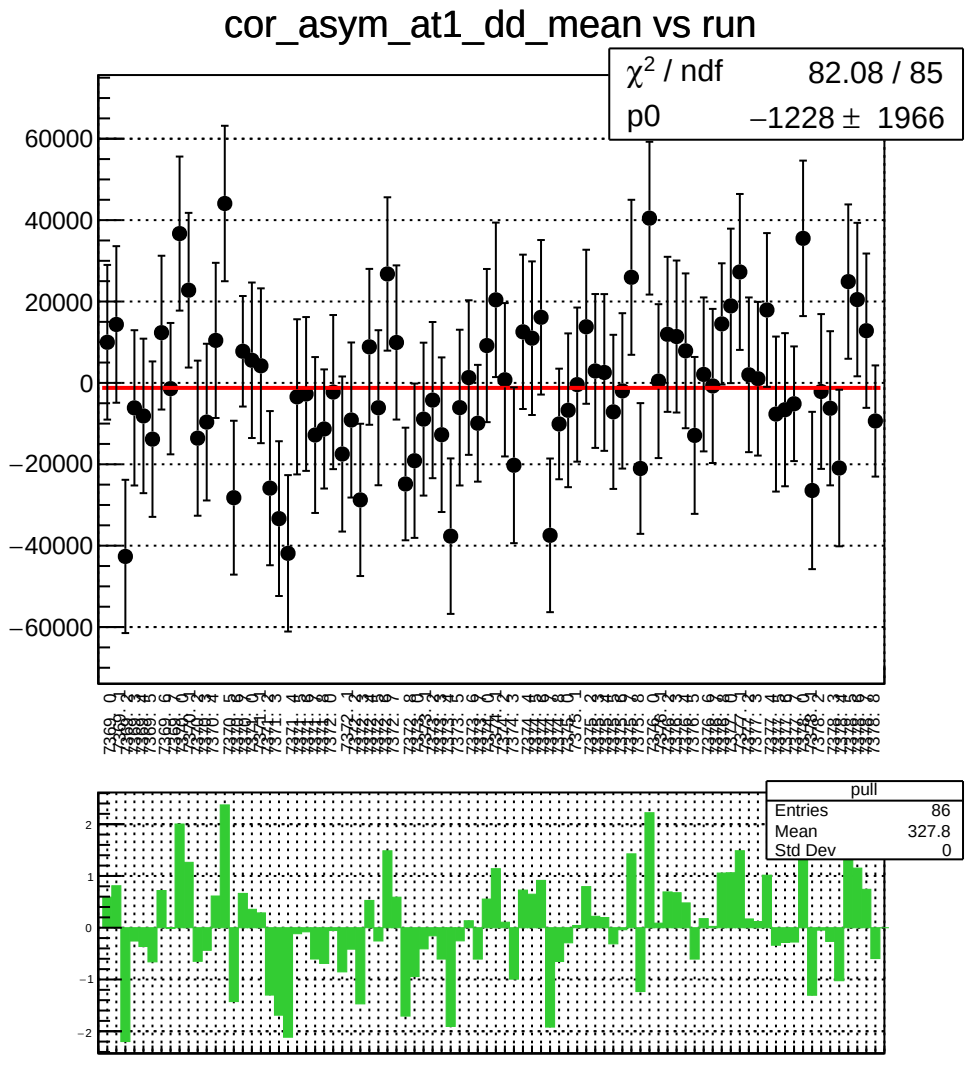

pull1D
Entries 86
Mean 0.01425
Std Dev 0.9768
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

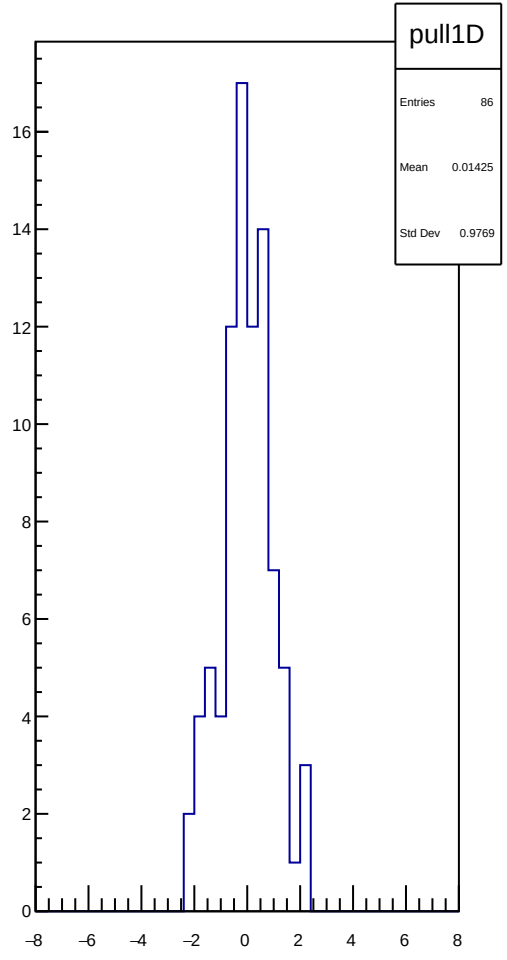

reg_asym_at1_dd_rms vs run
χ² / ndf 75.6 / 85
p0 1804 ± 1.39
1840
1820
1800
1780
1760

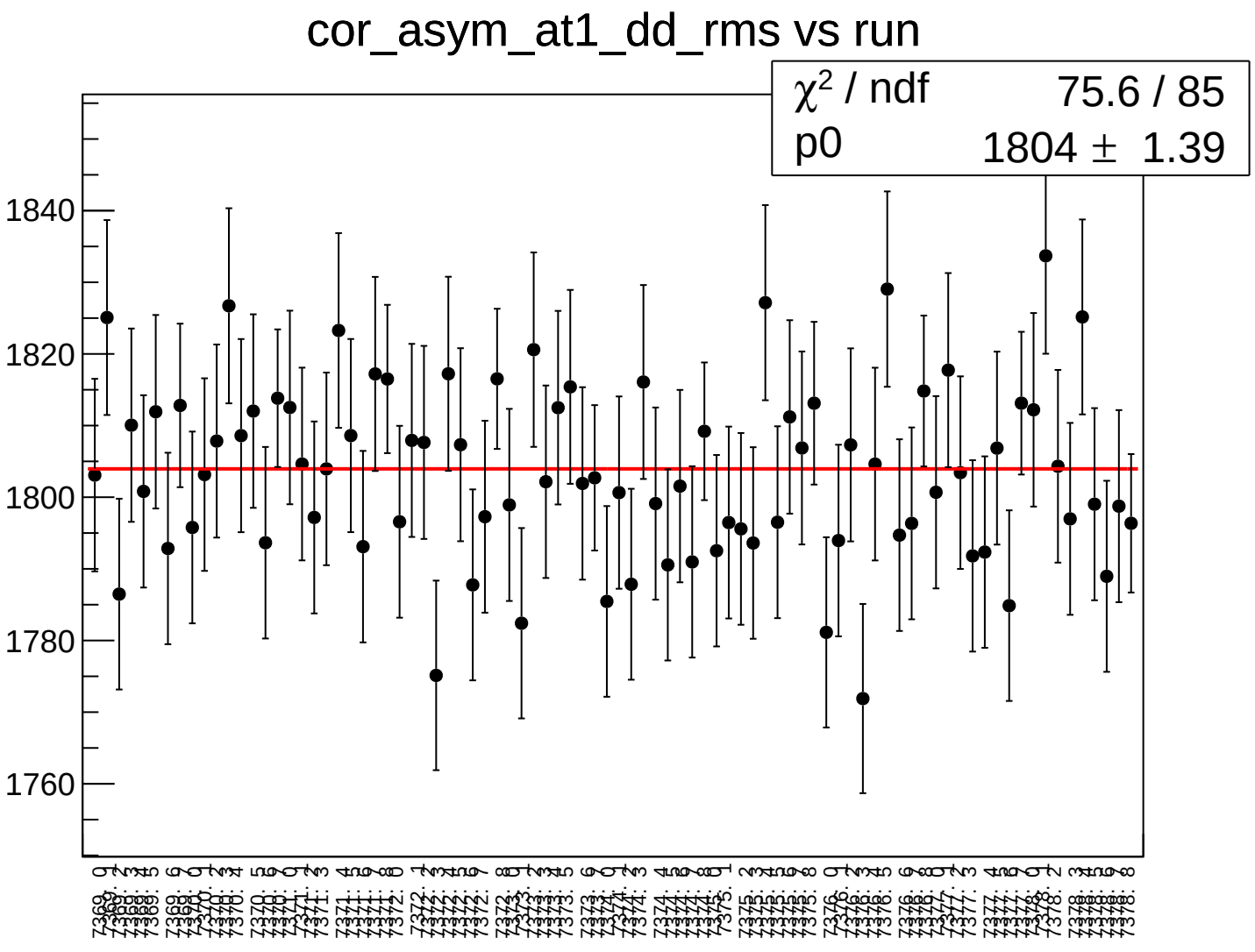

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 84.59 / 85
p0 −337.4 ± 390.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 58.3
Std Dev 0
2
1
0
−1
−2

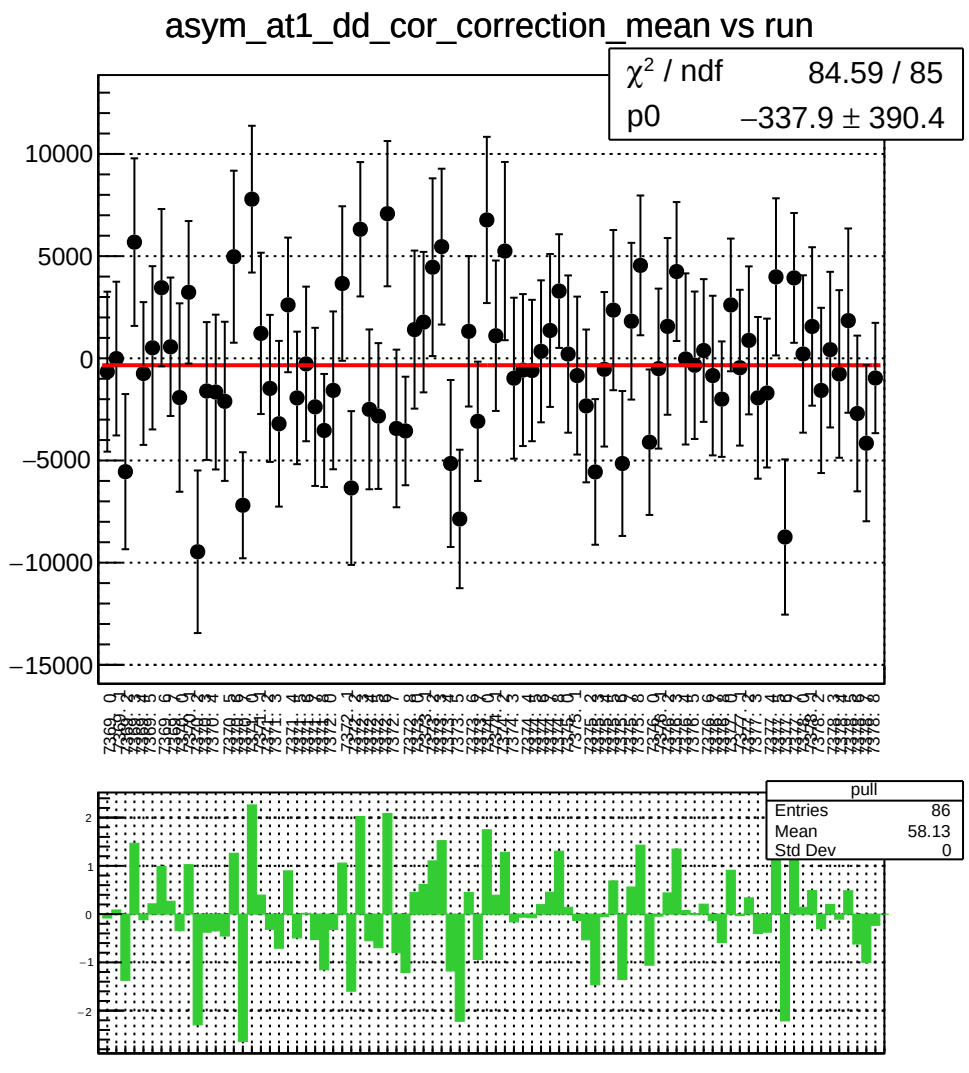

pull1D
Entries 86
Mean 0.02096
Std Dev 0.9915
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

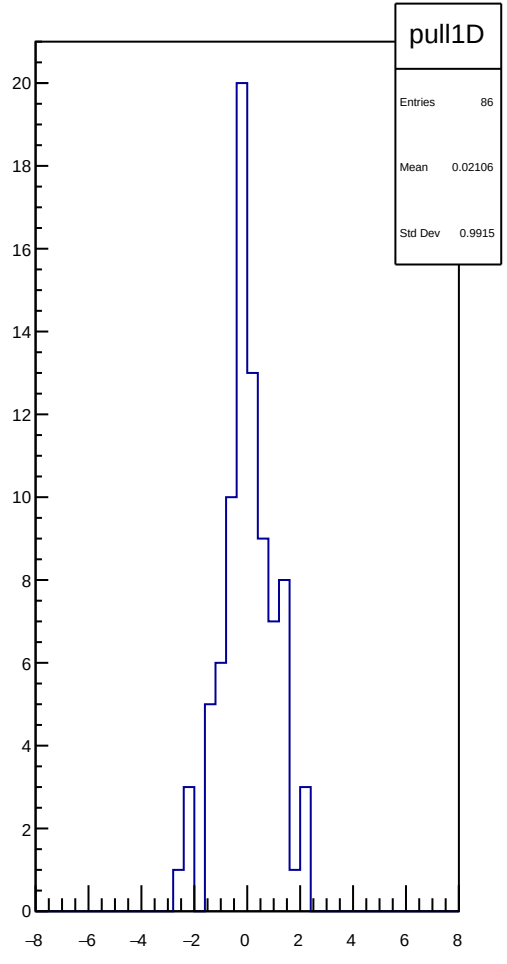

asym_at1_dd_reg_correction_rms vs run
χ^2 / ndf 8163 / 85
p0 357.4 ± 0.276
440
420
400
380
360
340
320
300

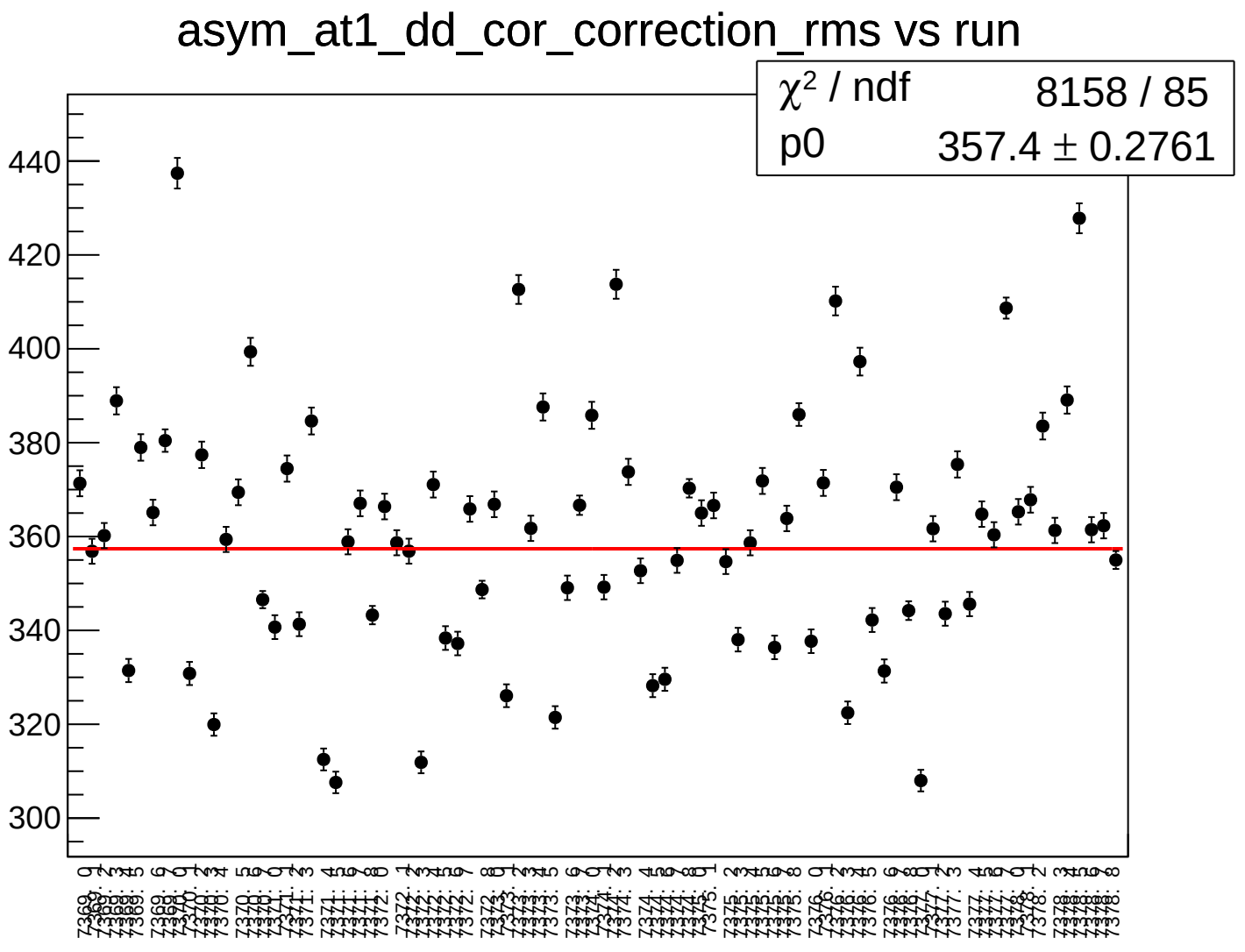

cor_asym_at1_dd_mean vs run
χ² / ndf 82.08 / 85
p0 −1228 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 327.8
Std Dev 0
2
1
0
−1
−2

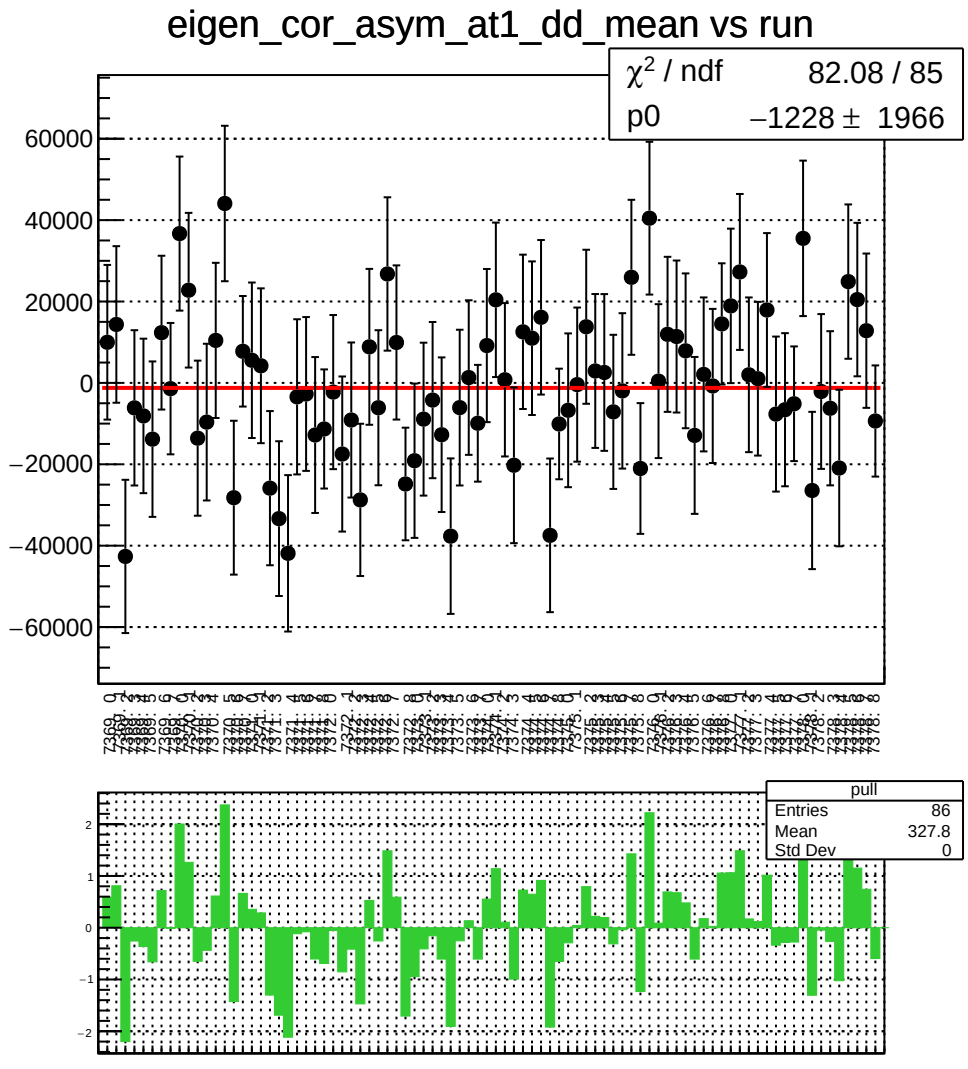

pull1D
Entries 86
Mean 0.01425
Std Dev 0.9769
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

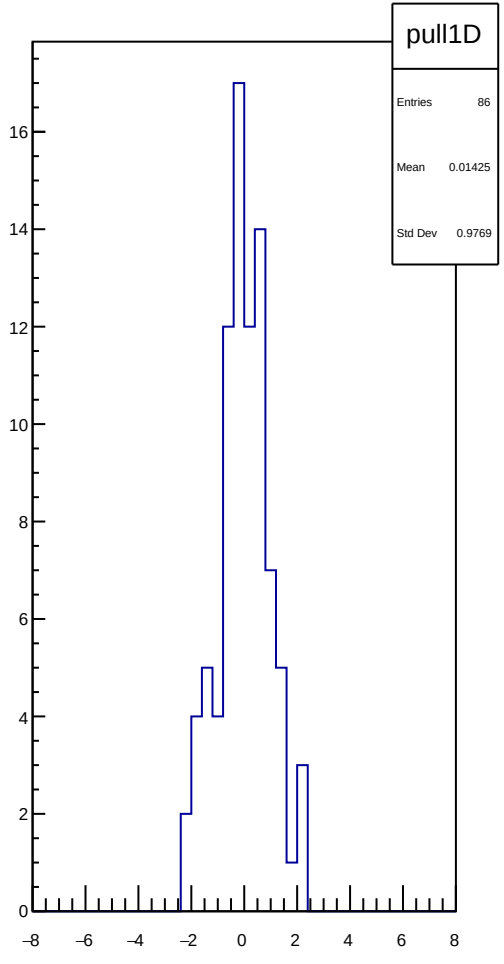

cor_asym_at1_dd_rms vs run
χ² / ndf 75.6 / 85
p0 1804 ± 1.39
1840
1820
1800
1780
1760

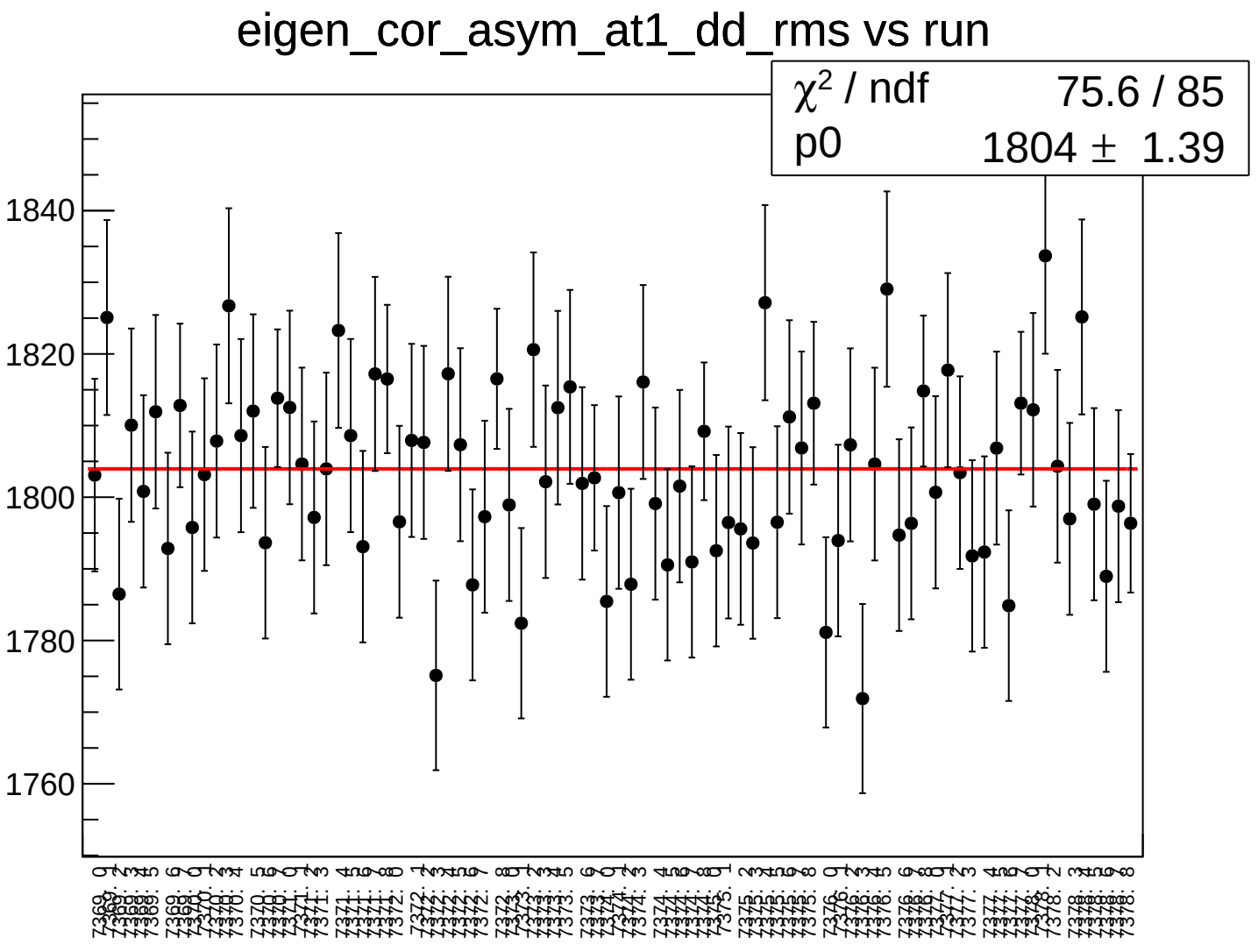

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 84.59 / 85
p0 −337.9 ± 390.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 58.13
Std Dev 0
2
1
0
−1
−2

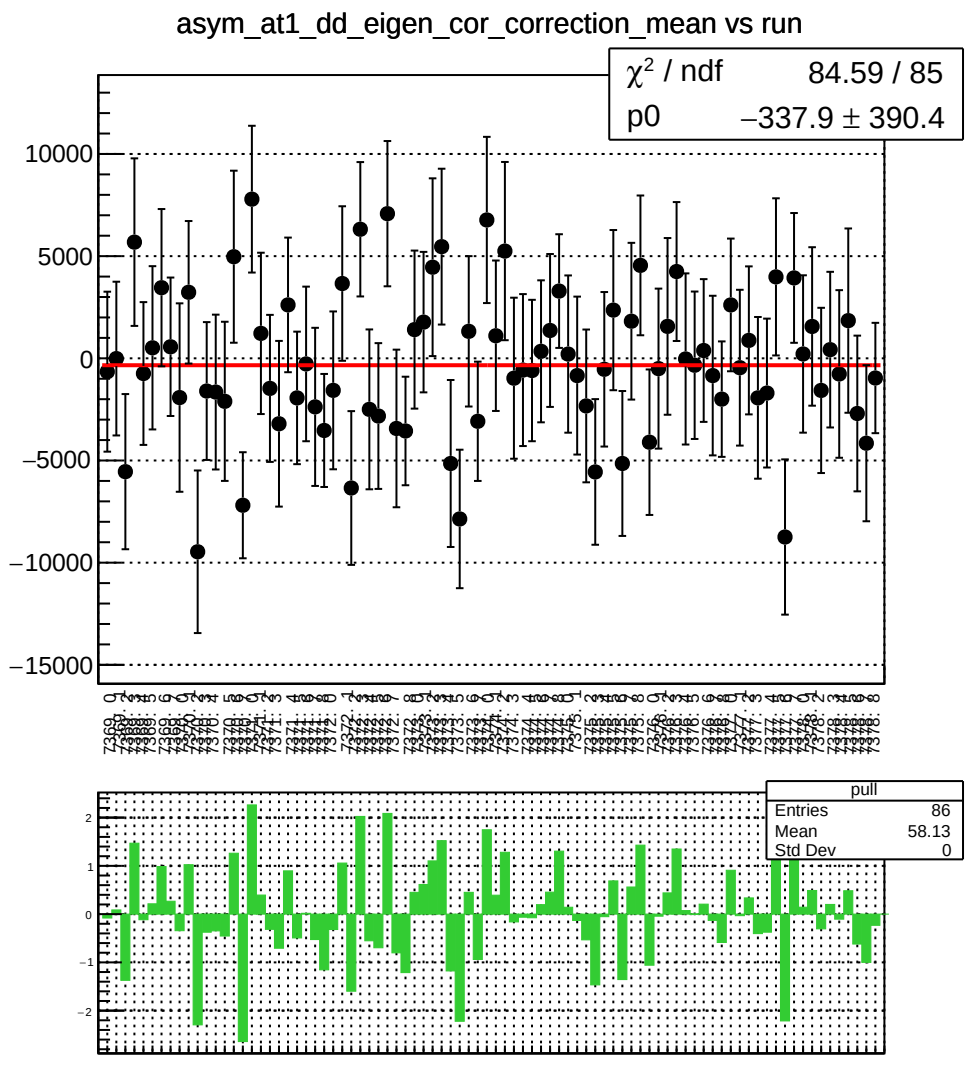

pull1D
Entries 86
Mean 0.02106
Std Dev 0.9915
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

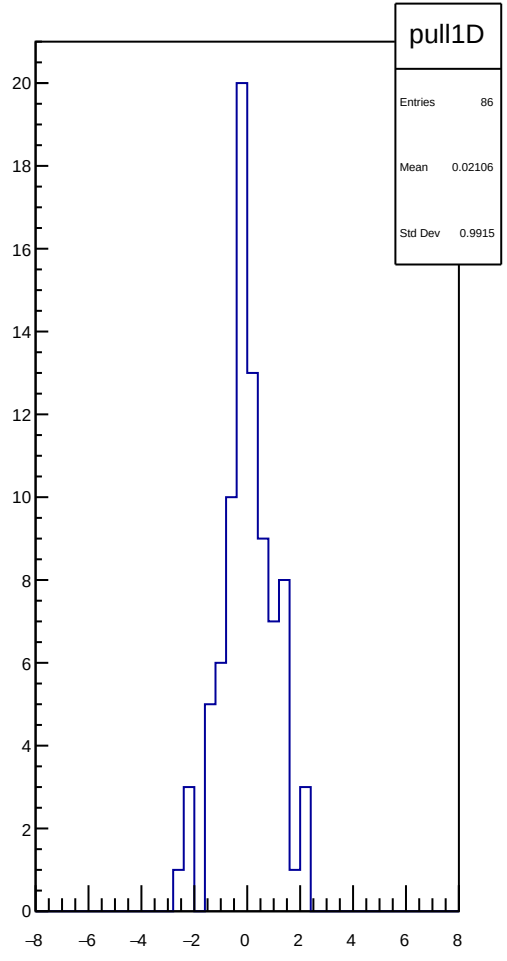

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 8158 / 85
p0 357.4 ± 0.2761
440
420
400
380
360
340
320
300

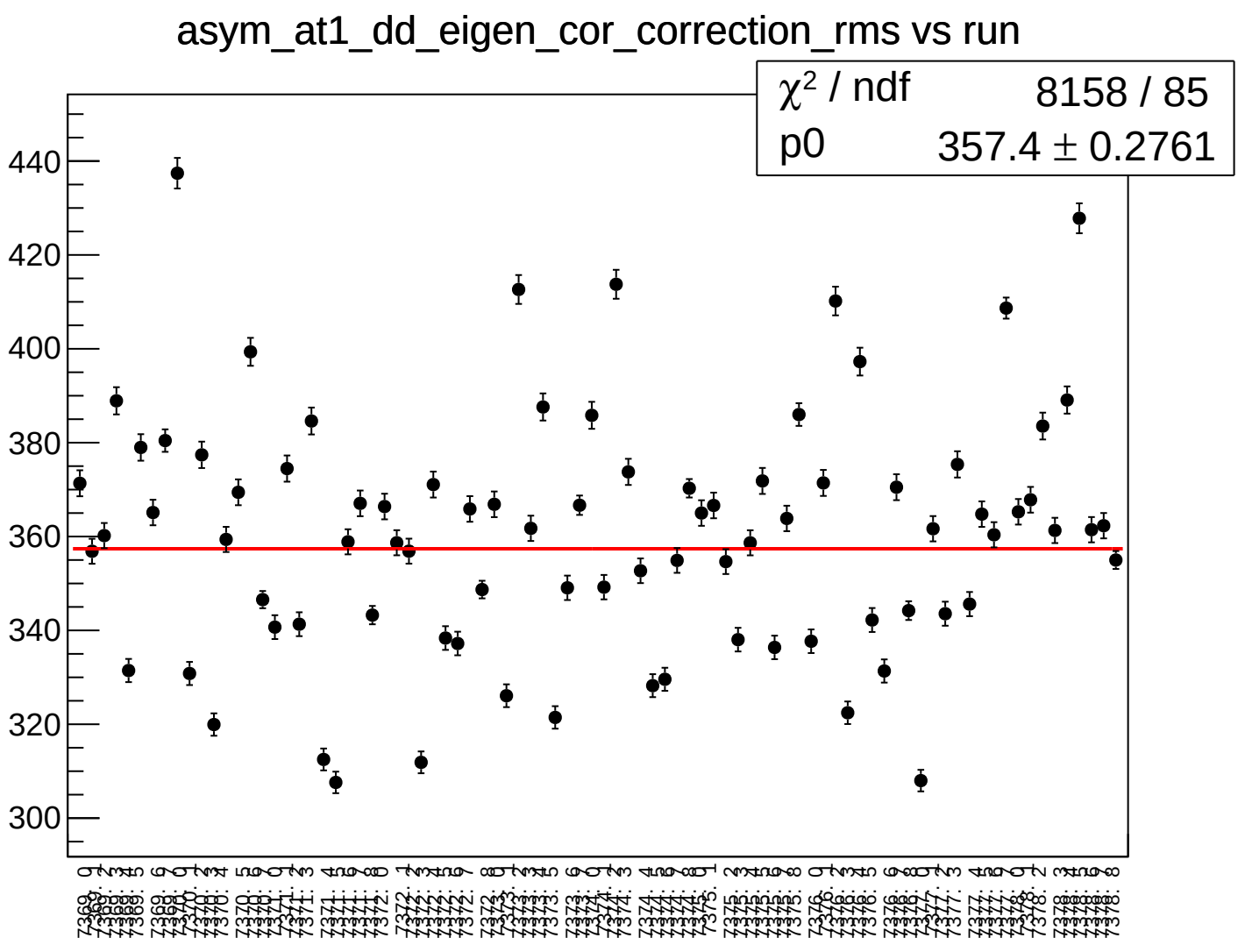

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 82.08 / 85
p0 −1228 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 327.8
Std Dev 0
2
1
0
−1
−2

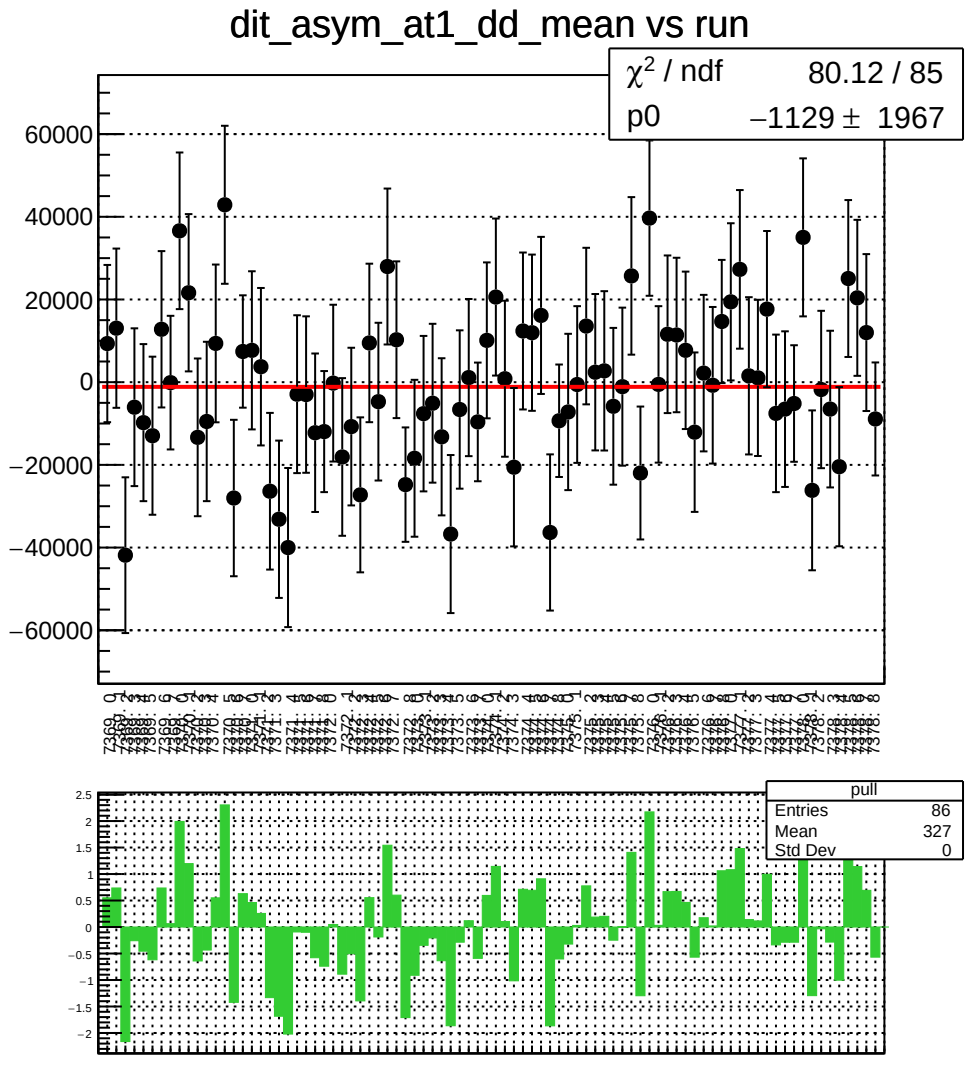

pull1D
Entries 86
Mean 0.01425
Std Dev 0.9769
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

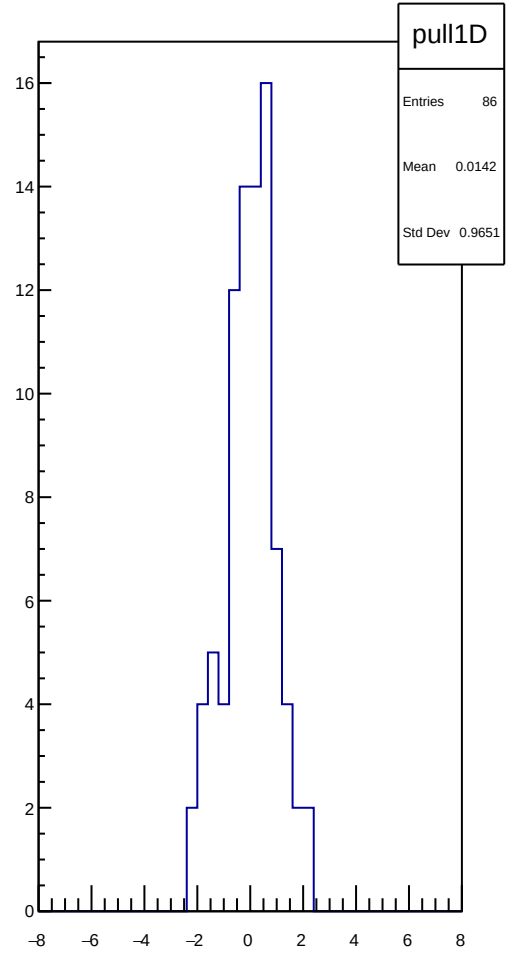

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 75.6 / 85
p0 1804 ± 1.39
1840
1820
1800
1780
1760

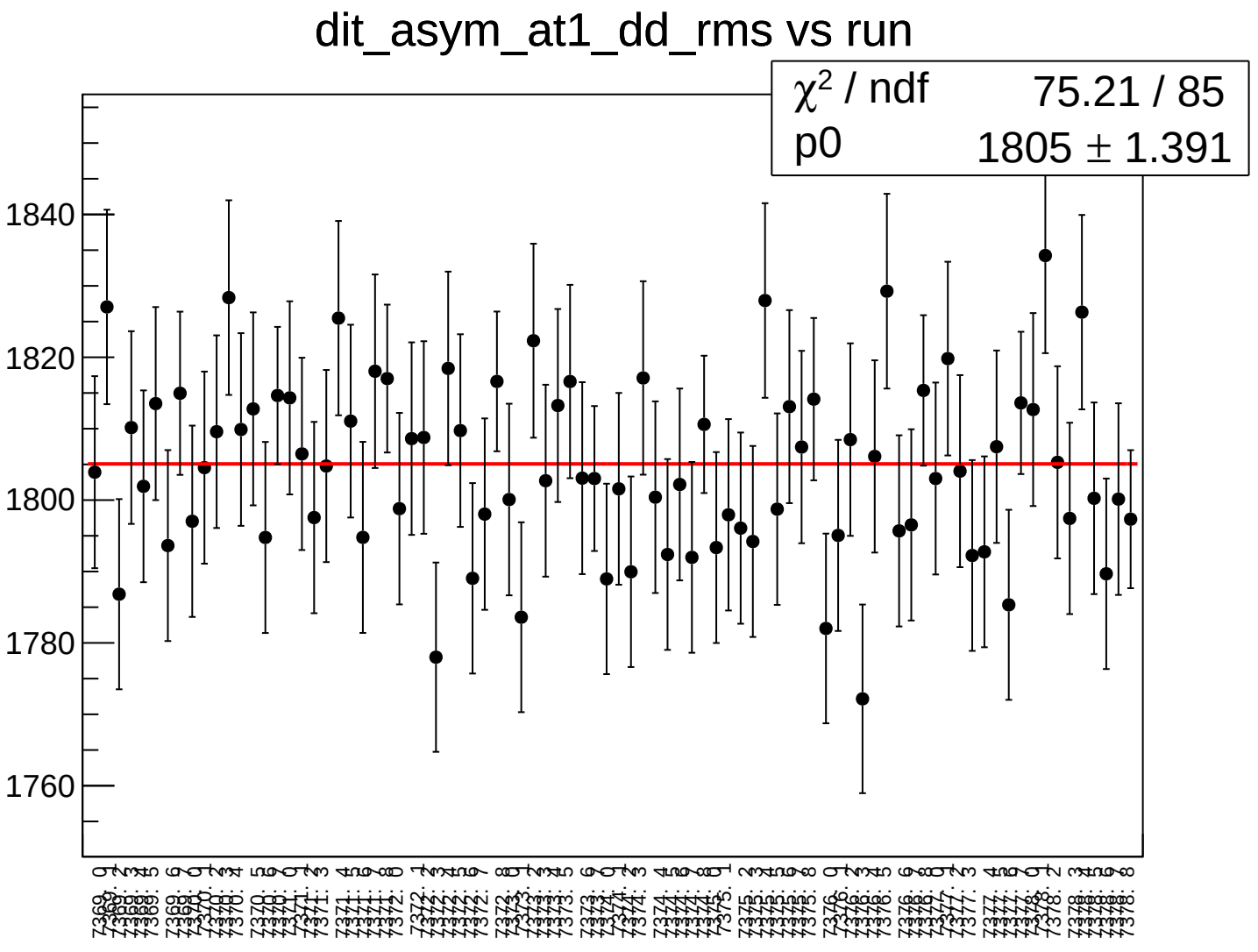

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.59 / 85
p0 −337.9 ± 390.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 58.13
Std Dev 0
2
1
0
−1
−2

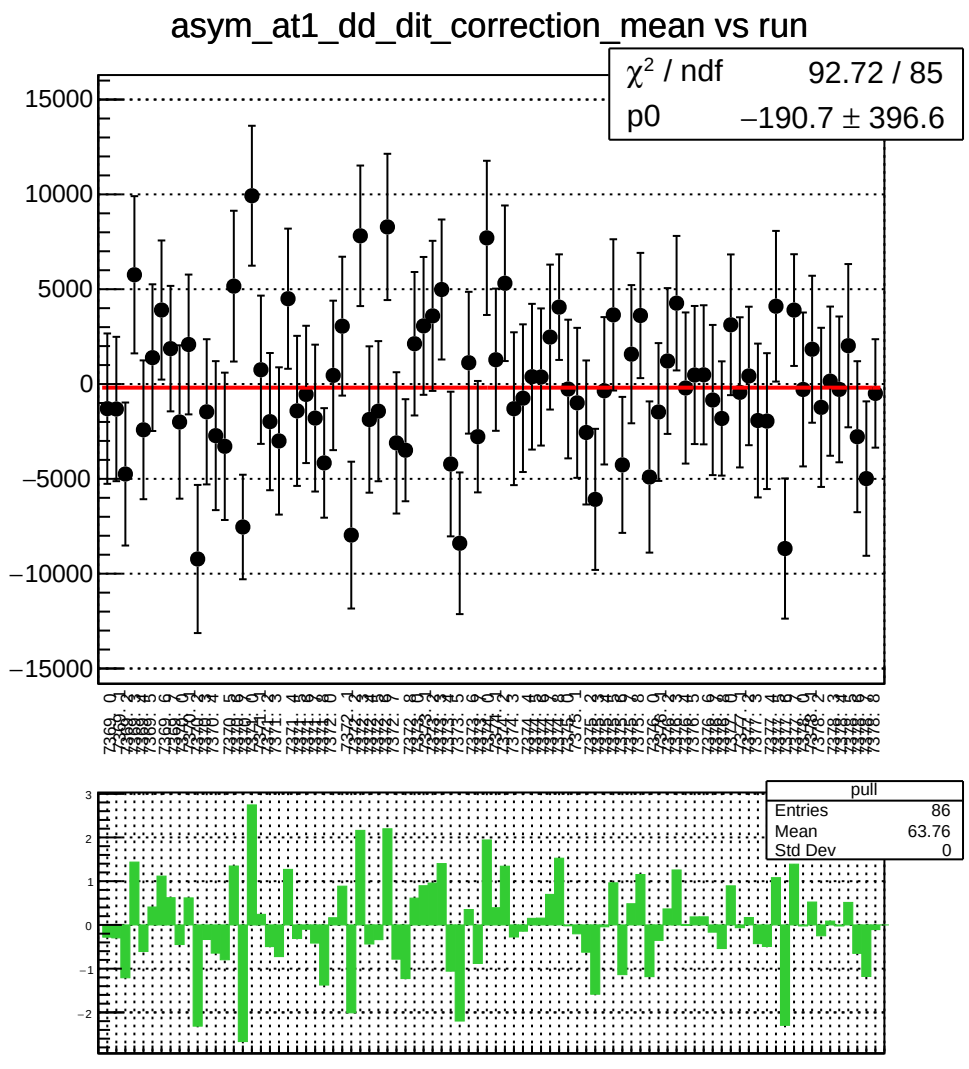

pull1D
Entries 86
Mean 0.02106
Std Dev 0.9915
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

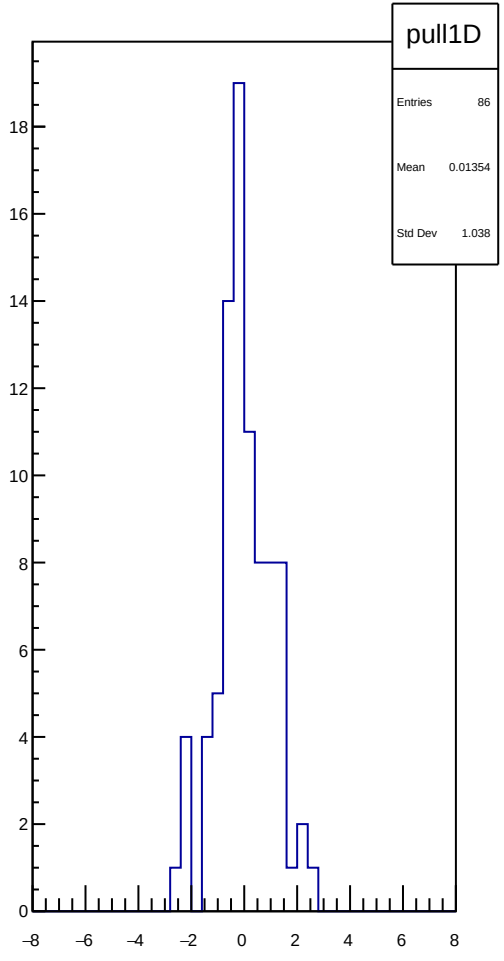

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 8158 / 85
p0 357.4 ± 0.2761
440
420
400
380
360
340
320
300

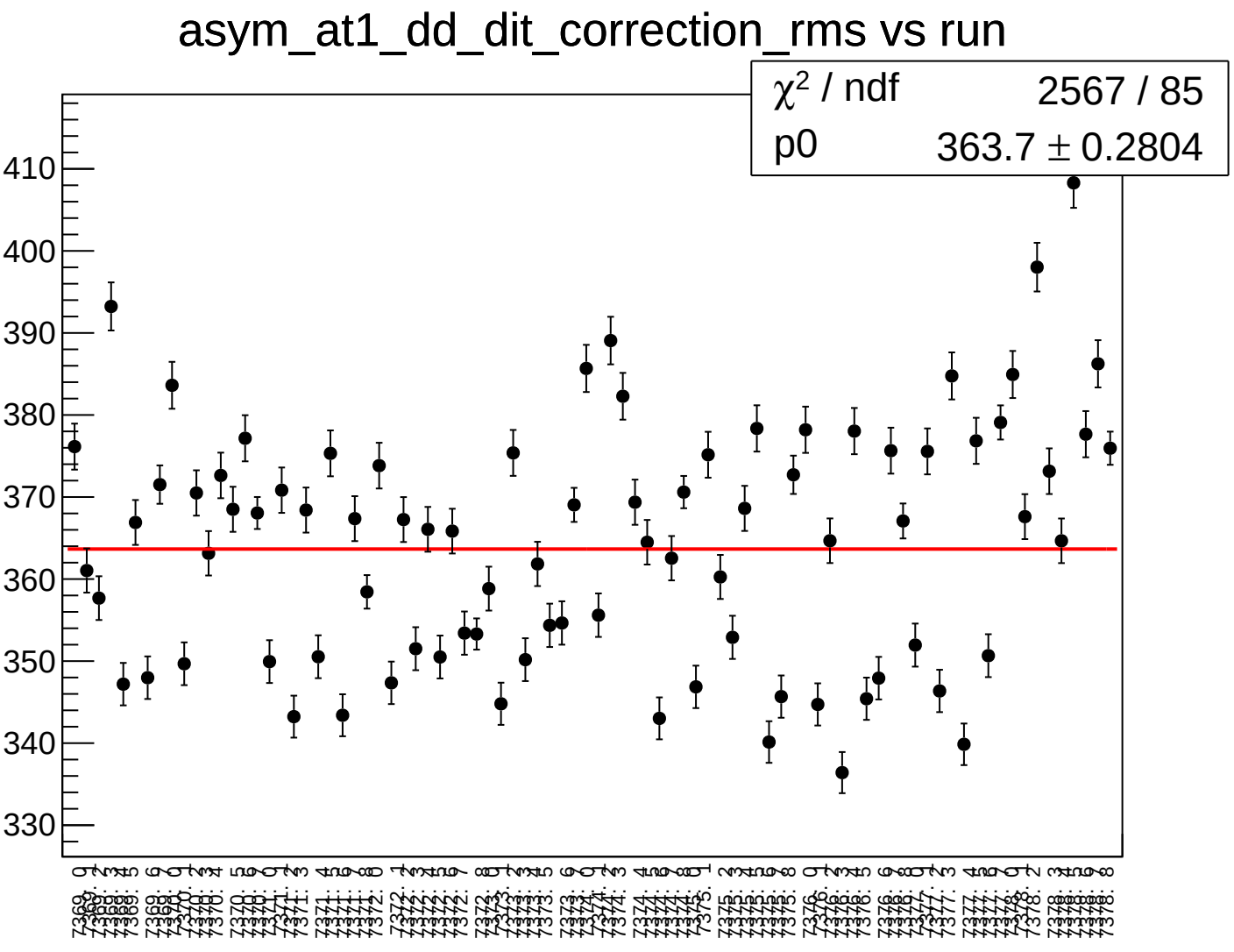

dit_asym_at1_dd_mean vs run
χ² / ndf 80.12 / 85
p0 −1129 ± 1967
pull
Entries 86
Mean 327
Std Dev 0

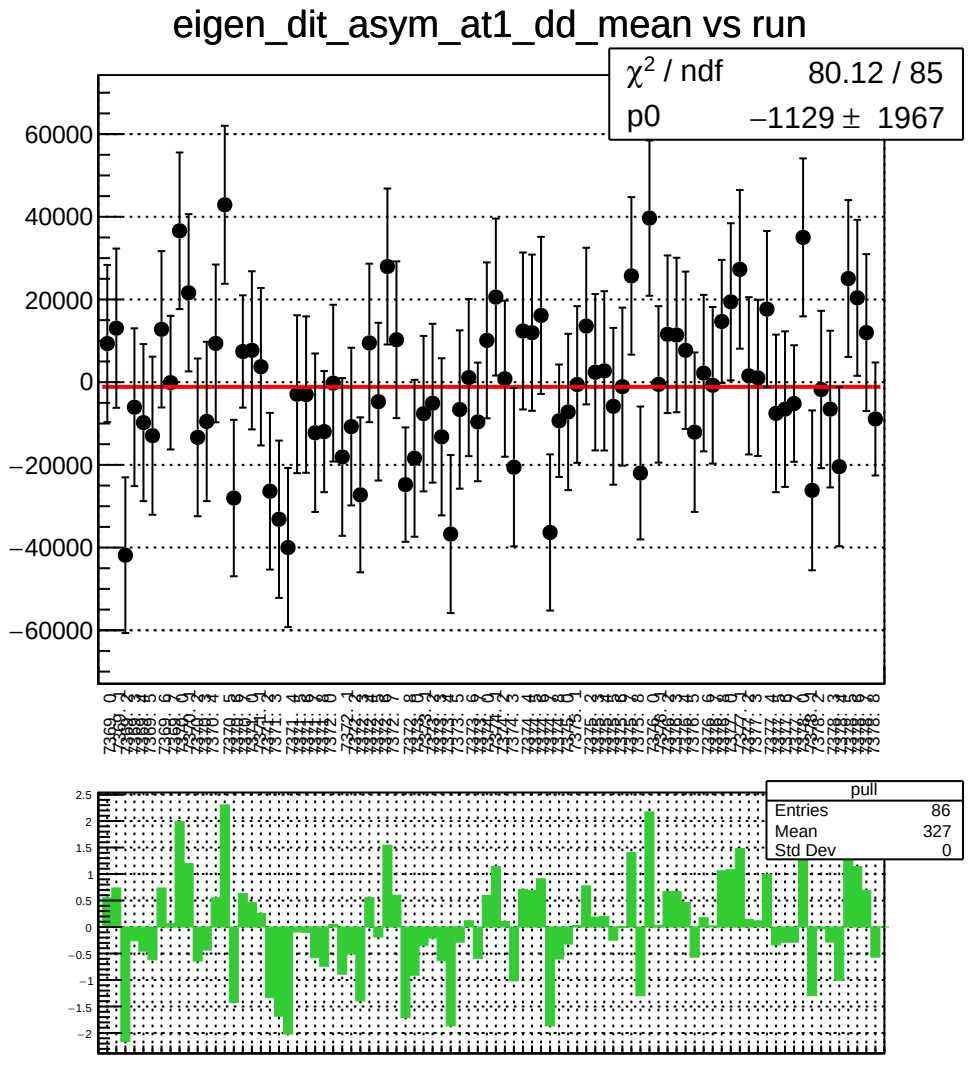

pull1D
Entries 86
Mean 0.0142
Std Dev 0.9651

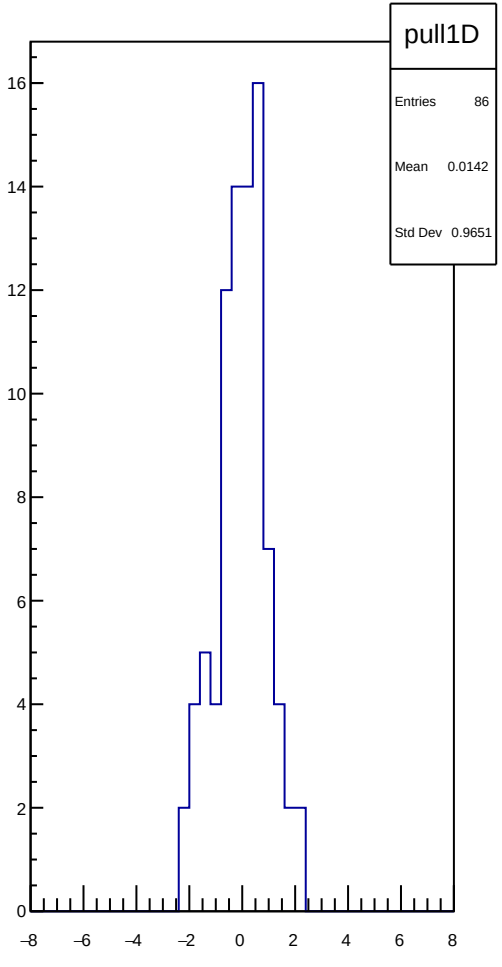

dit_asym_at1_dd_rms vs run
χ^2 / ndf 75.21 / 85
p0 1805 ± 1.391
1840
1820
1800
1780
1760

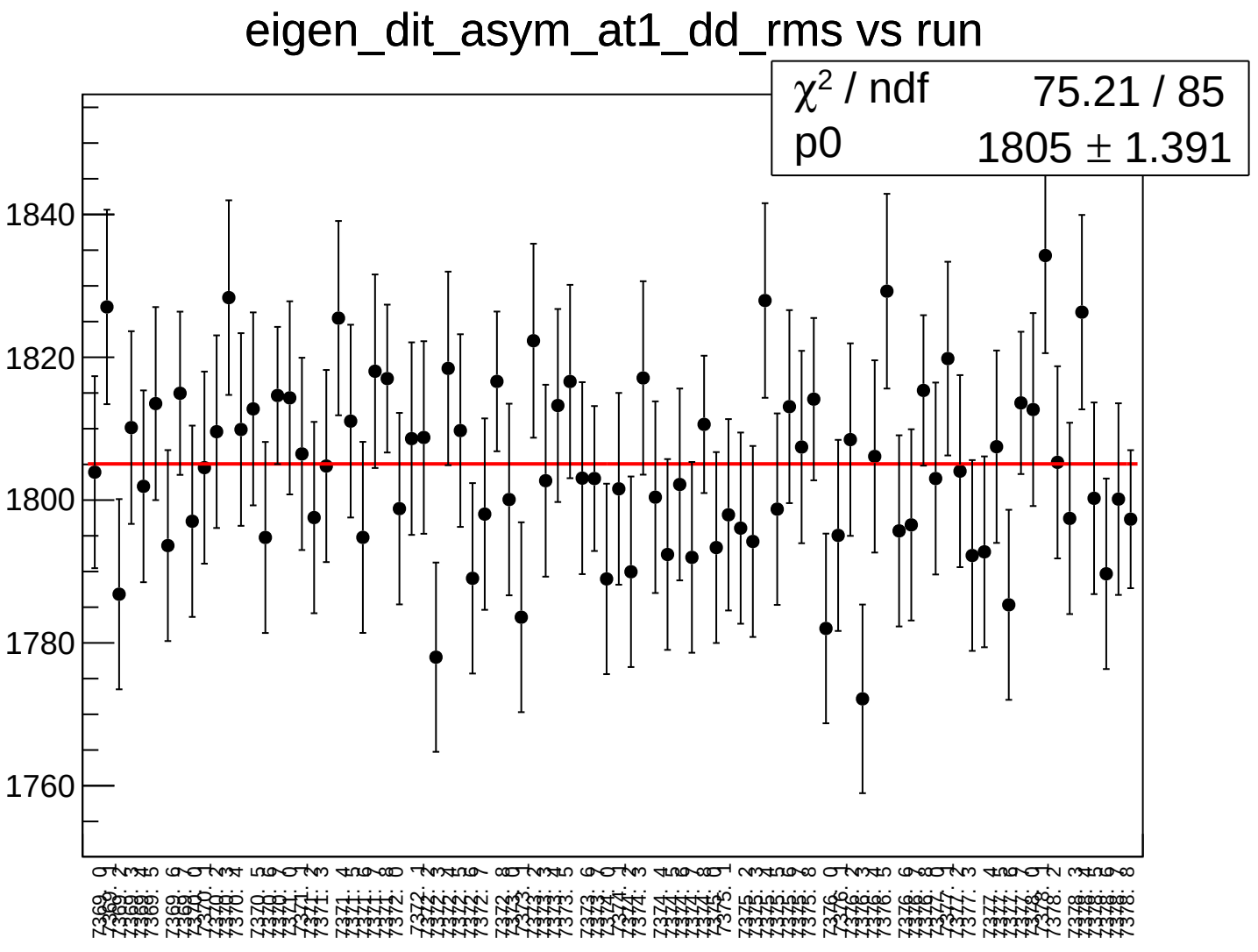

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 92.72 / 85
p0 −190.7 ± 396.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 63.76
Std Dev 0
3
2
1
0
−1
−2

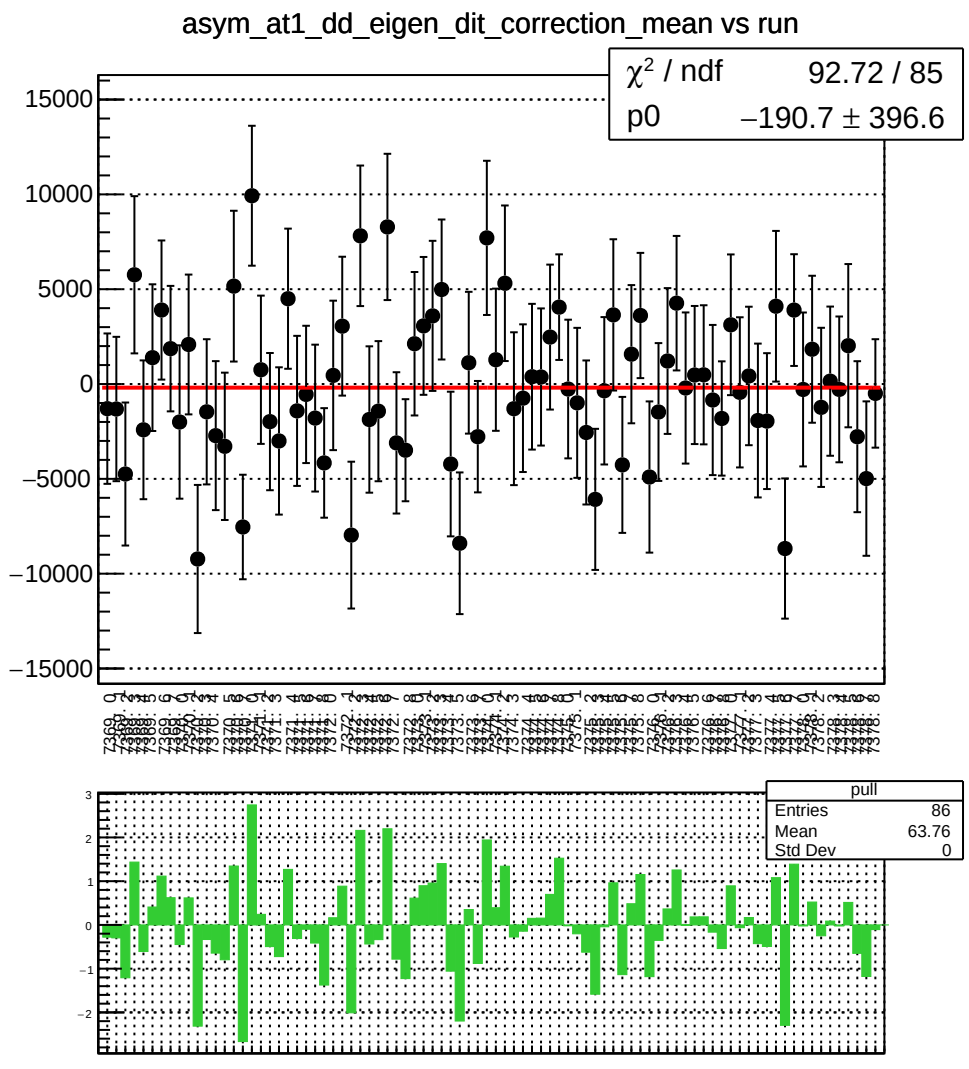

pull1D
Entries 86
Mean 0.01354
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

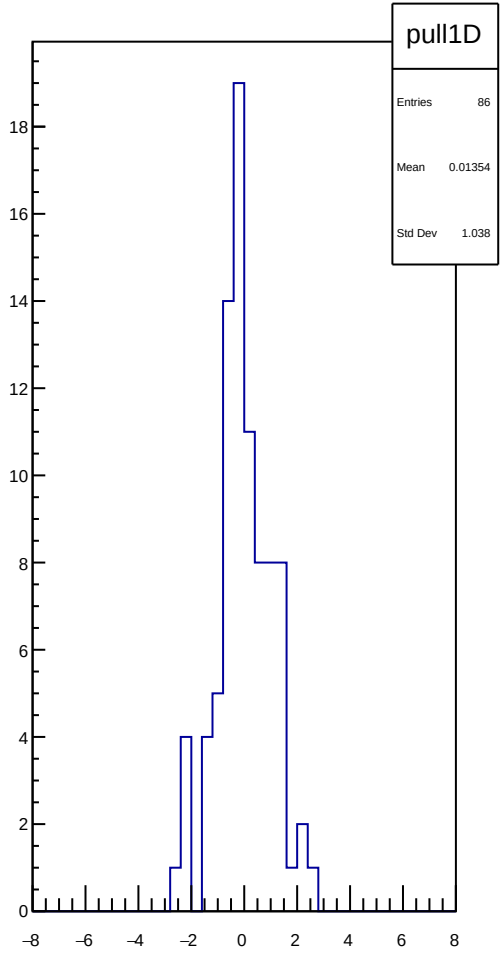

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 2567 / 85
p0 363.7 ± 0.2804
410
400
390
380
370
360
350
340
330

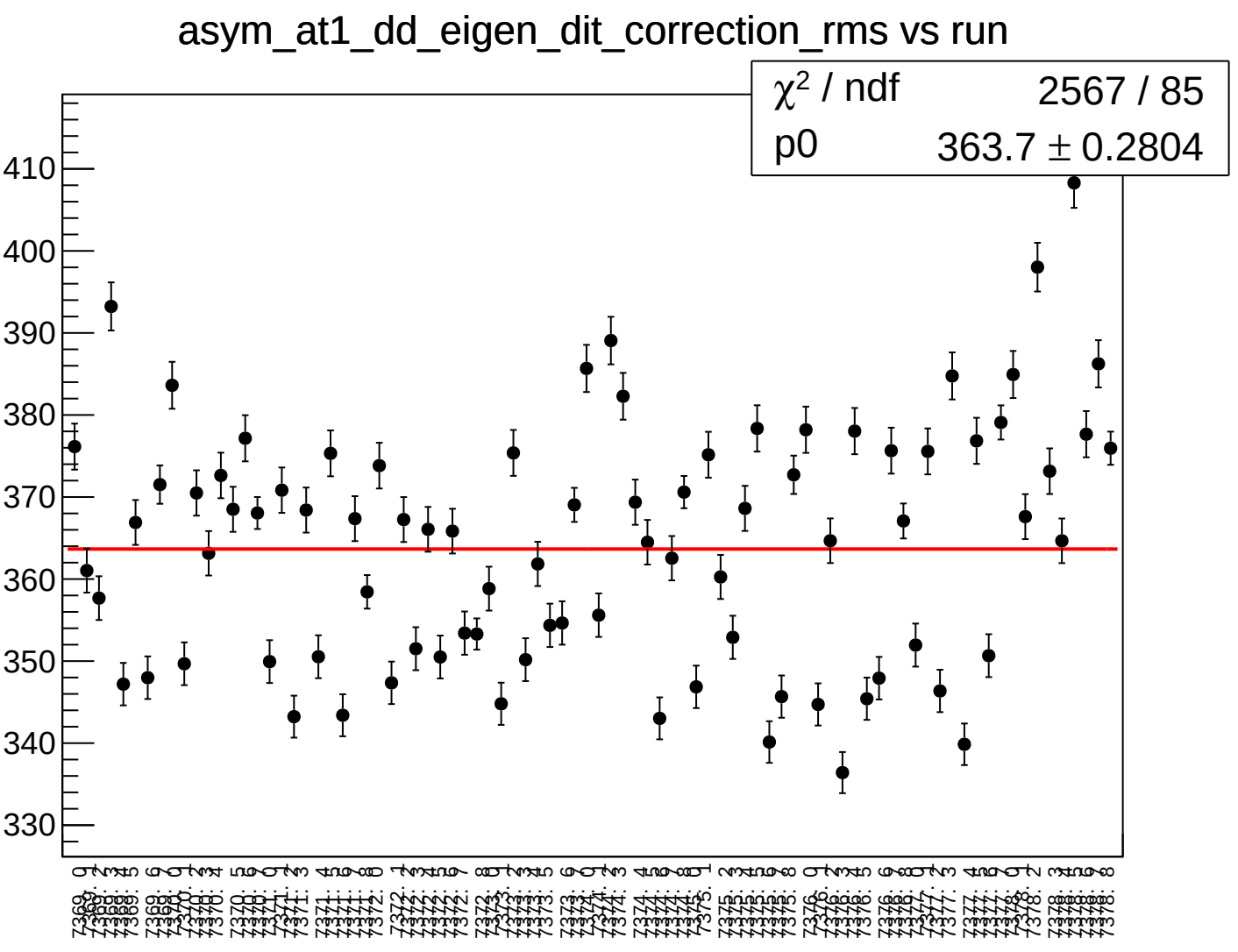

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 80.12 / 85
p0 −1129 ± 1967
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 327
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

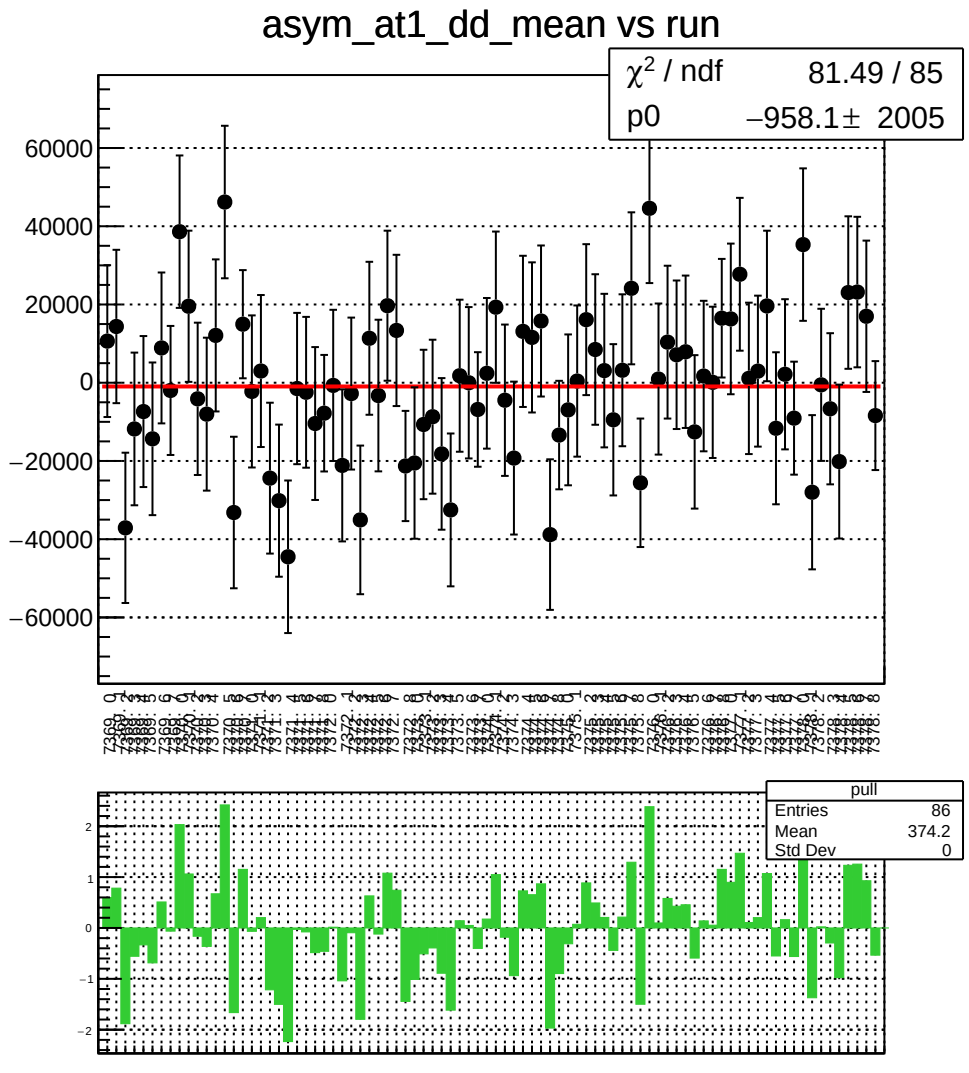

pull1D
Entries 86
Mean 0.0142
Std Dev 0.9651
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

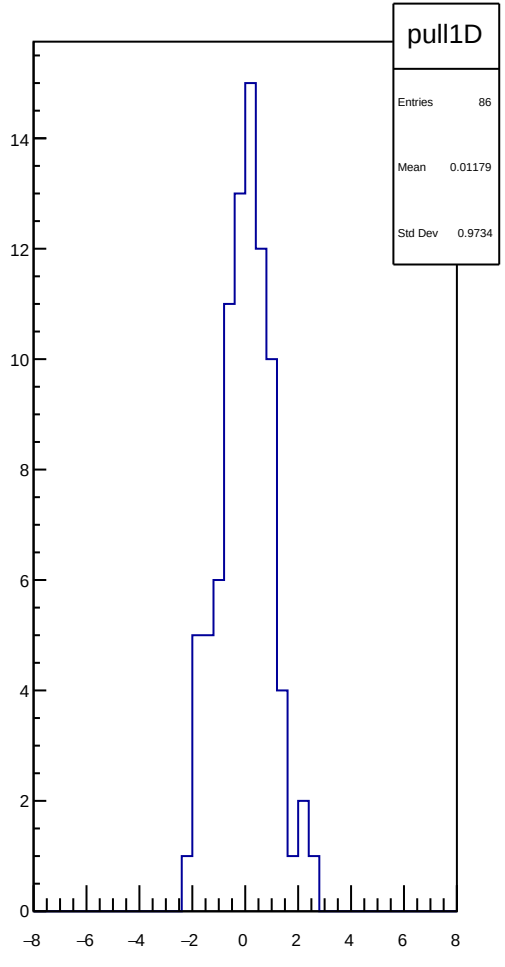

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 75.21 / 85
p0 1805 ± 1.391
1840
1820
1800
1780
1760

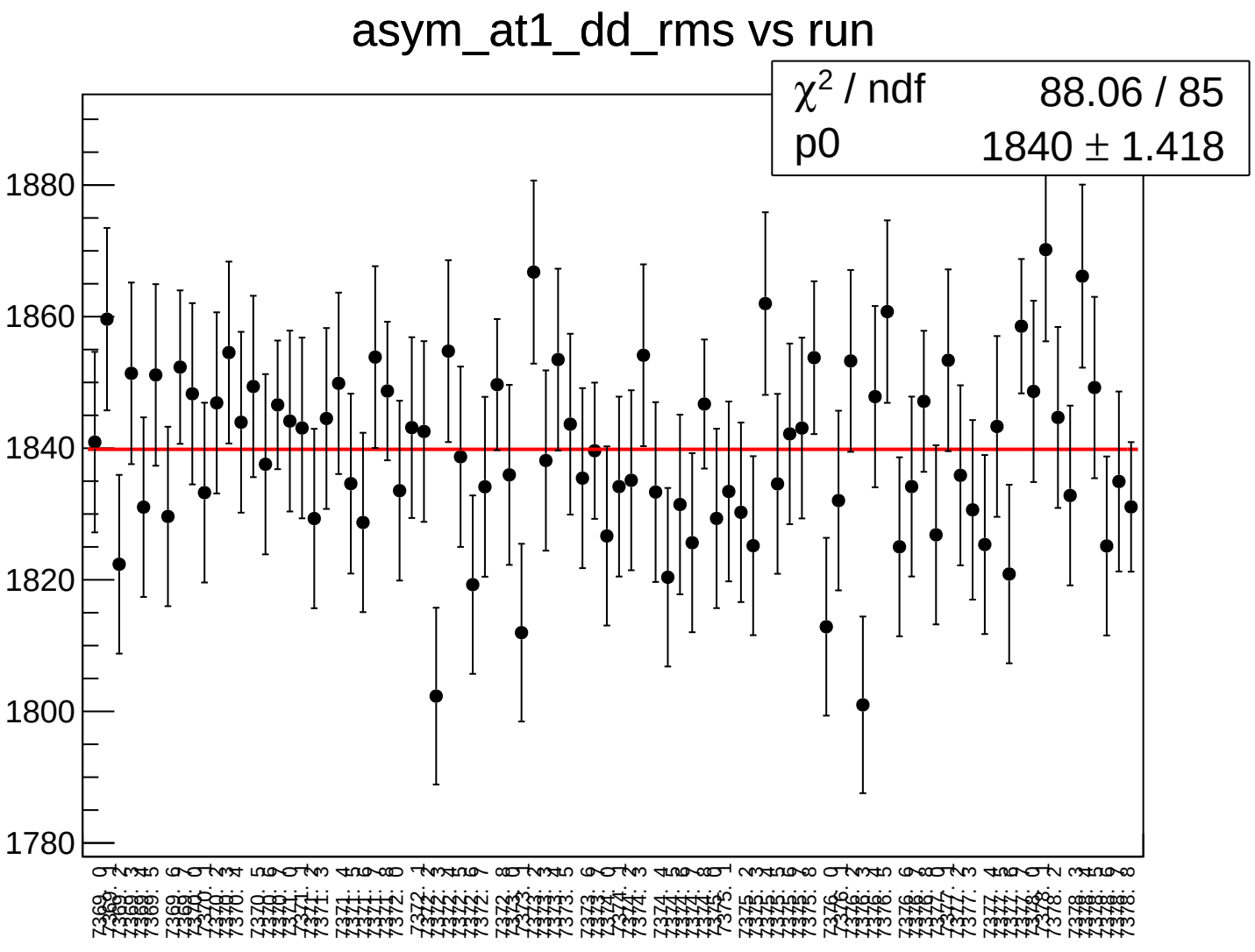

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.72 / 85
p0 −190.7 ± 396.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 63.76
Std Dev 0
3
2
1
0
−1
−2

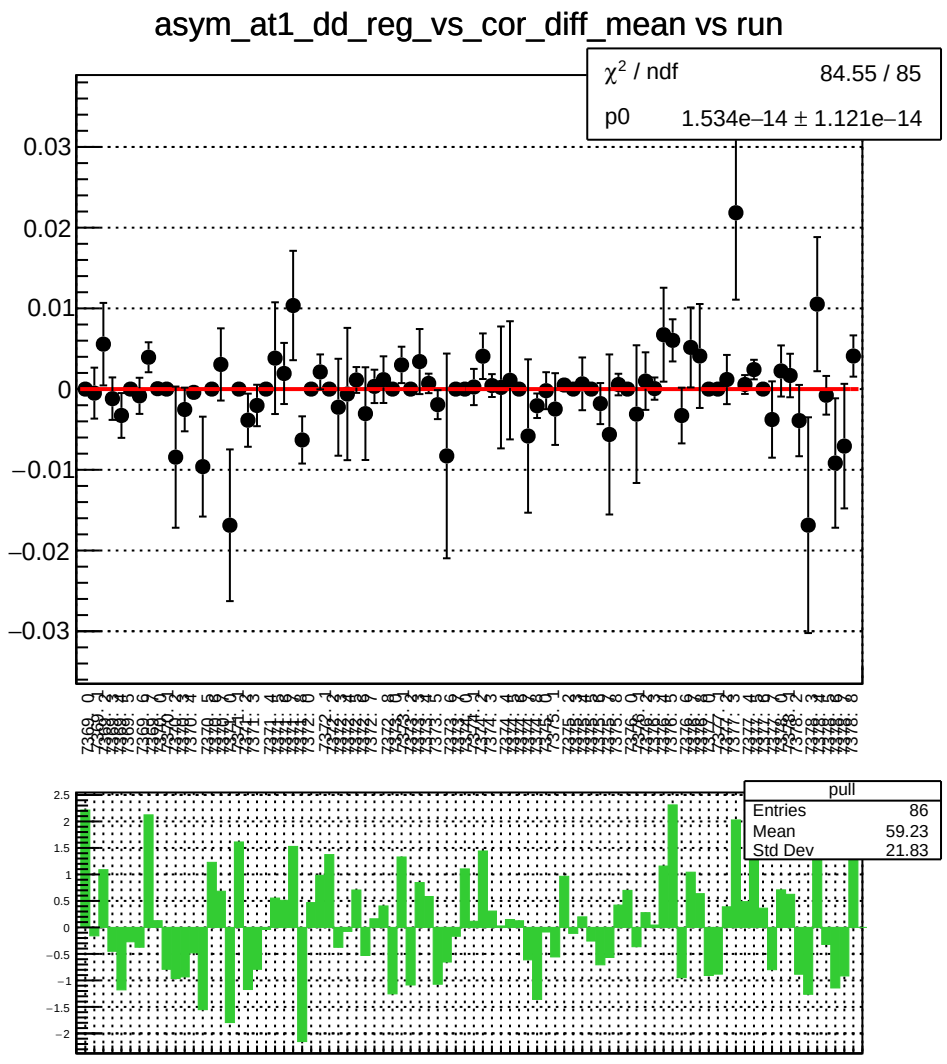

pull1D
Entries 86
Mean 0.01354
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

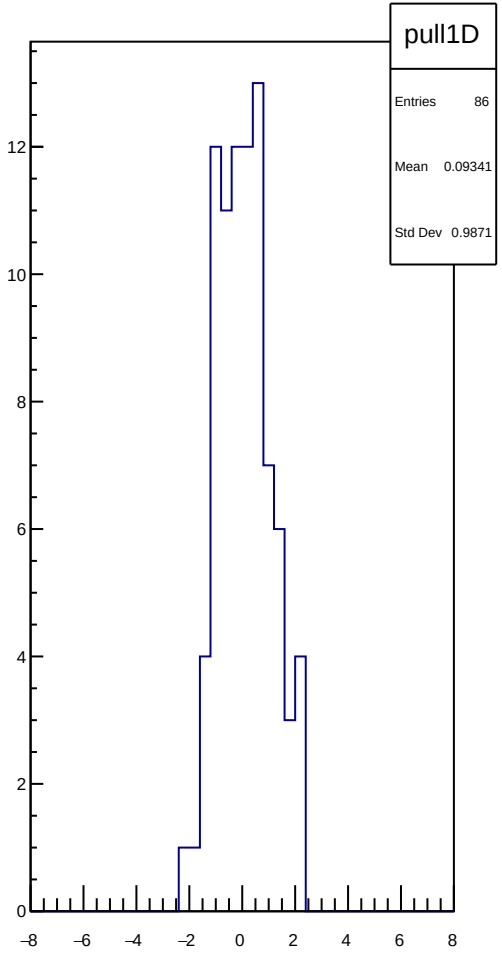

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2567 / 85
p0 363.7 ± 0.2804
410
400
390
380
370
360
350
340
330

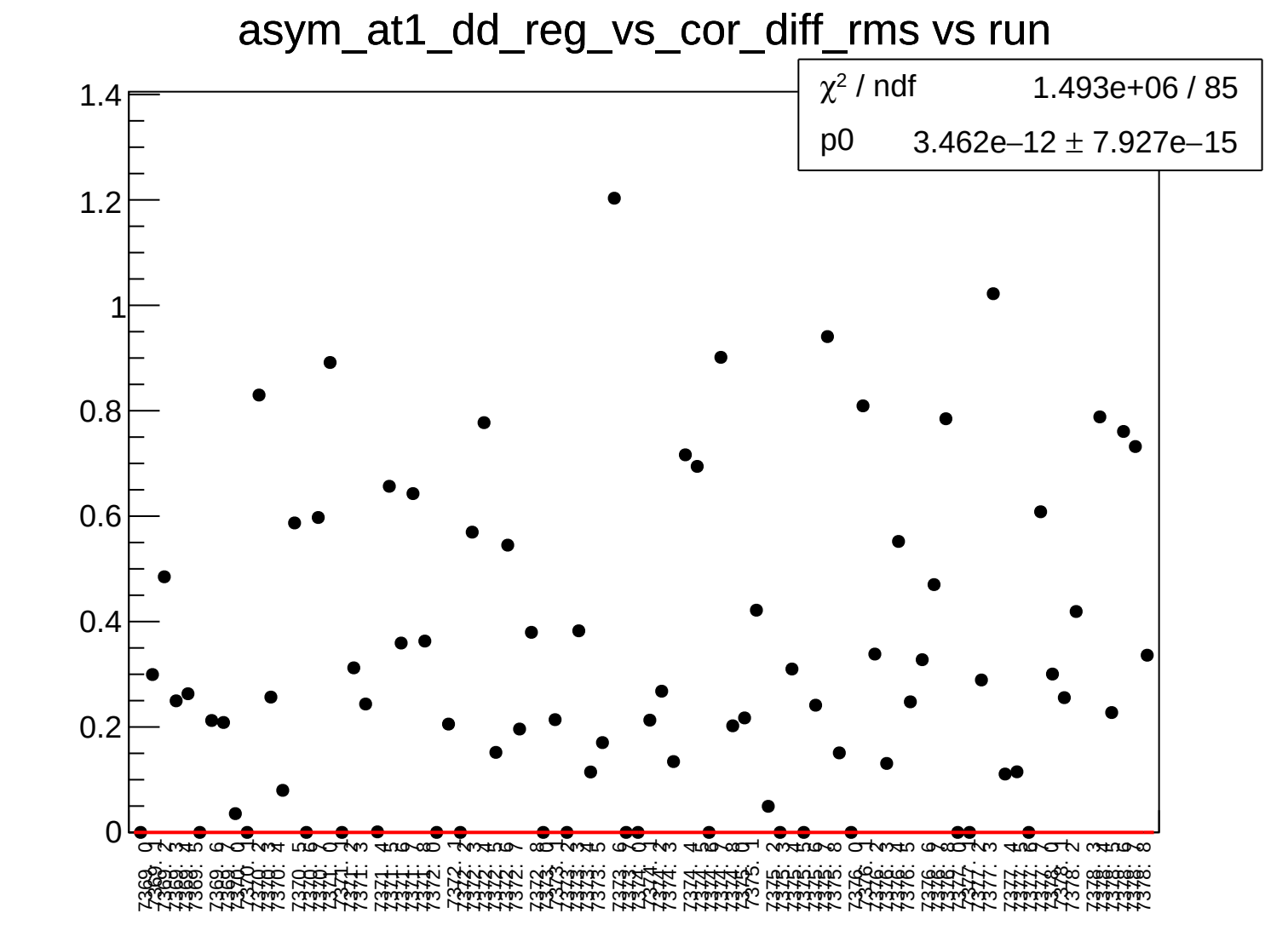

asym_at1_dd_mean vs run
χ² / ndf 81.49 / 85
p0 −958.1± 2005
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 374.2
Std Dev 0
2
1
0
−1
−2

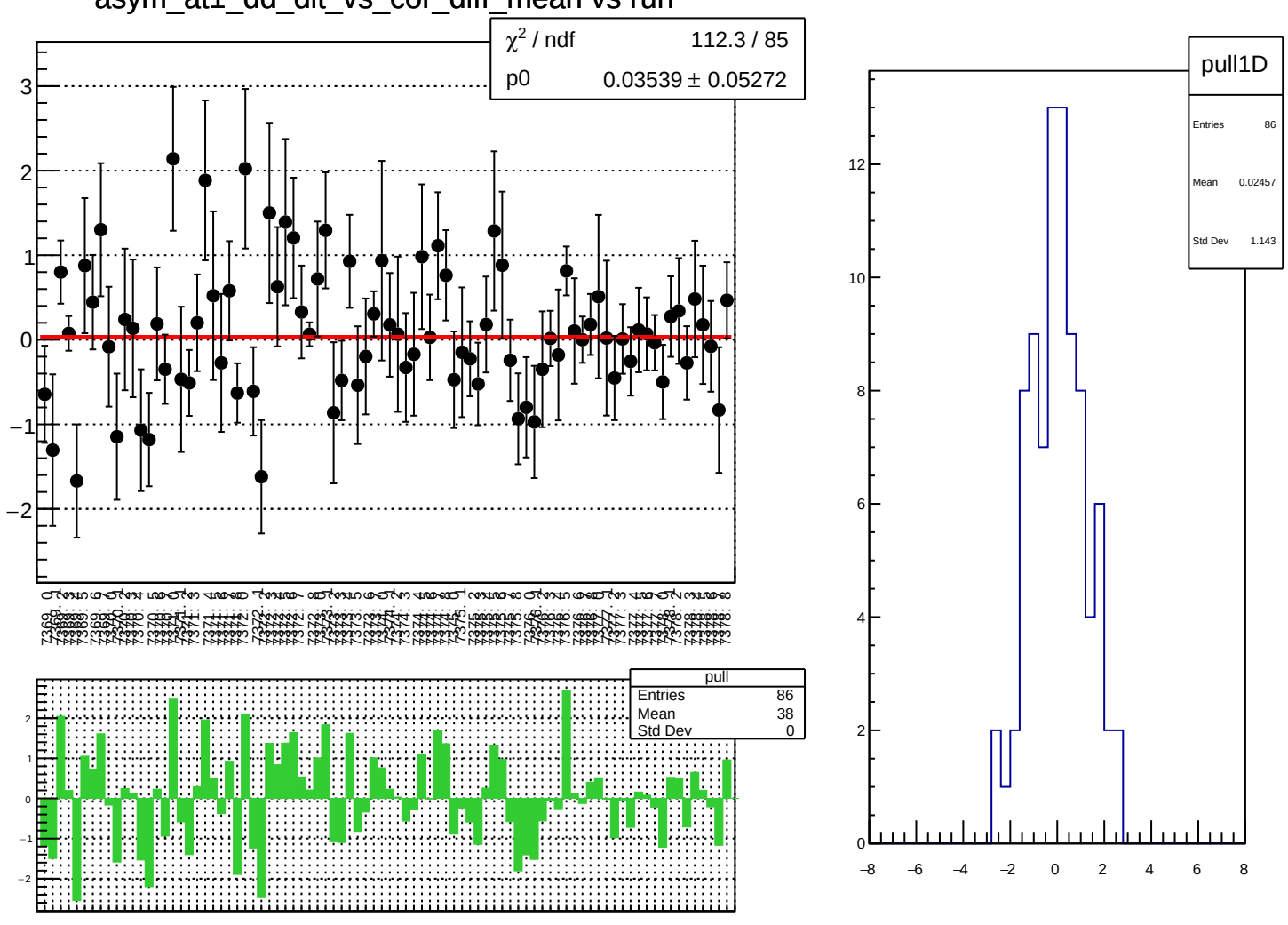

pull1D
Entries 86
Mean 0.01179
Std Dev 0.9734
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

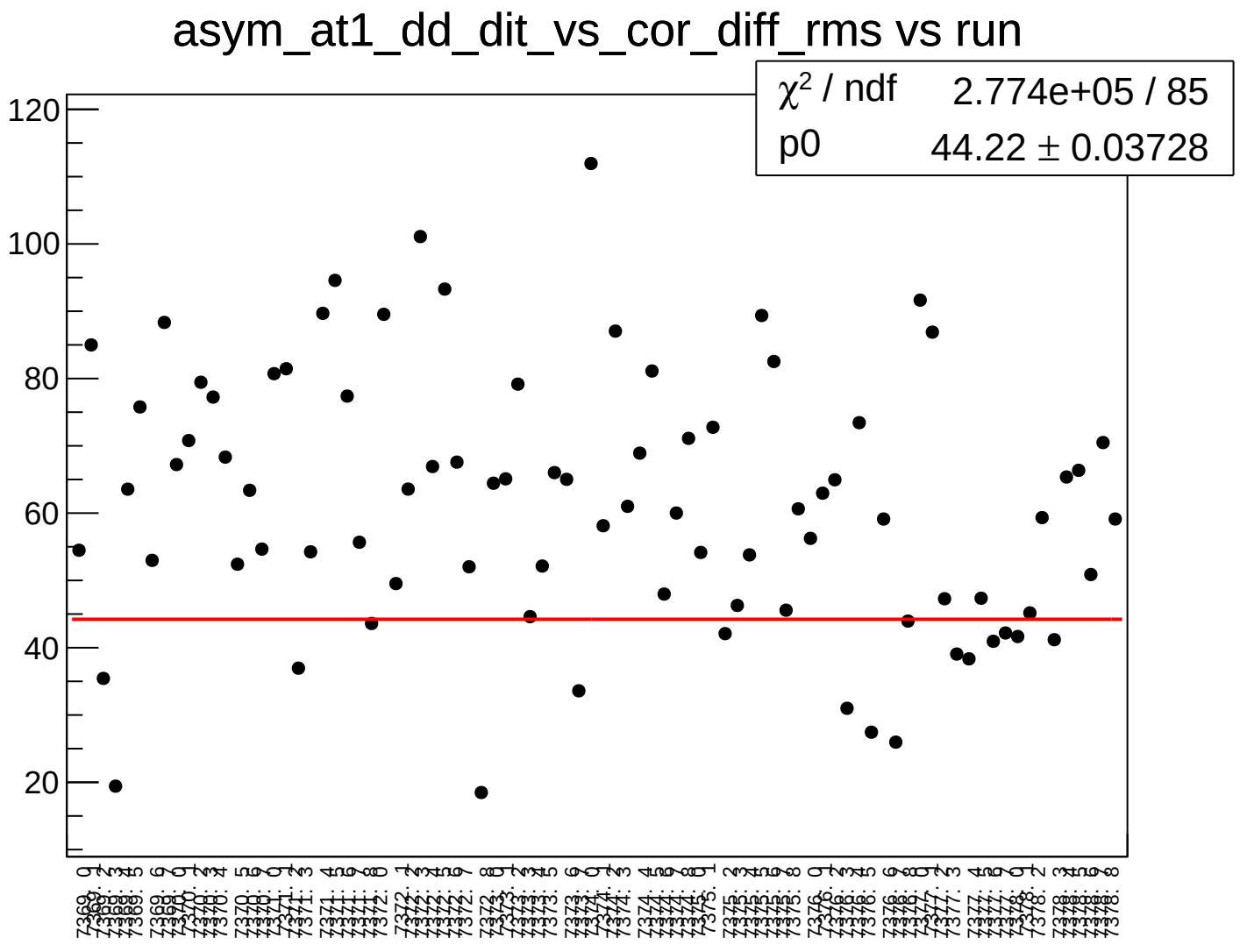

asym_at1_dd_rms vs run
χ² / ndf 88.06 / 85
p0 1840 ± 1.418
1880
1860
1840
1820
1800
1780

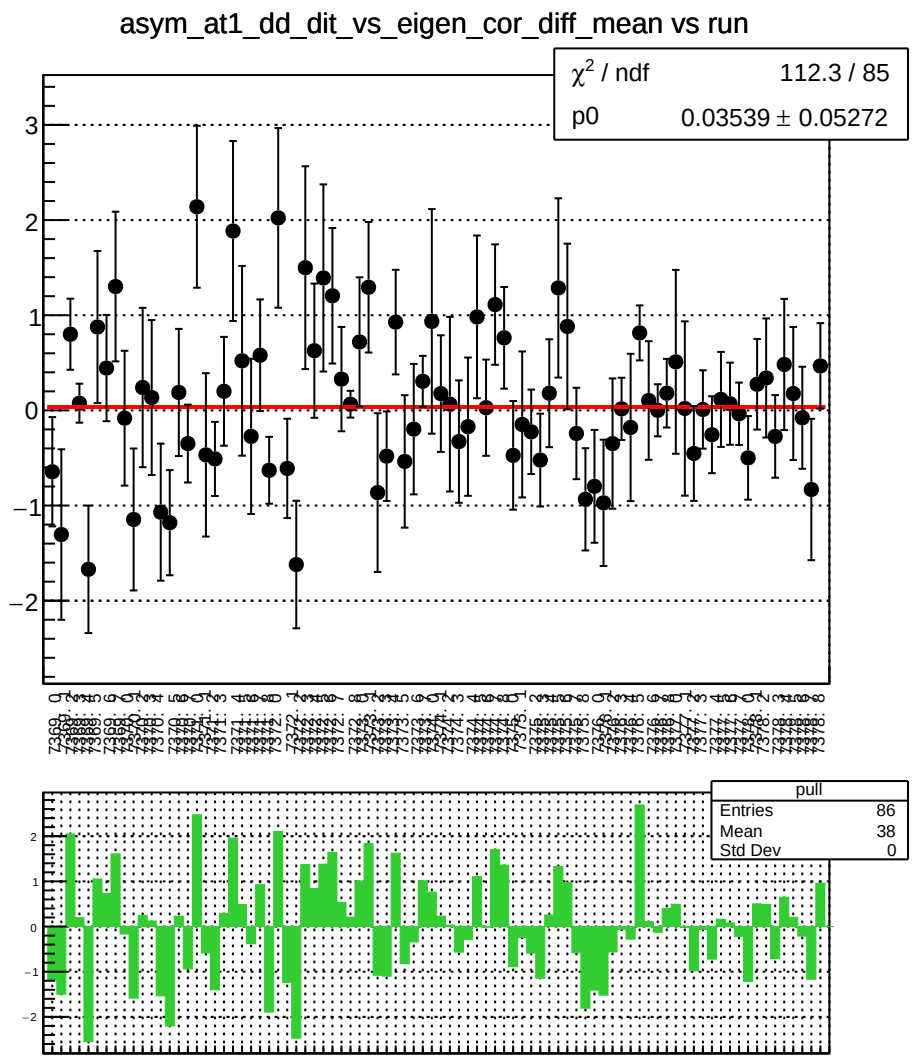

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.55 / 85
p0 1.534e−14 ± 1.121e−14
pull
Entries 86
Mean 59.23
Std Dev 21.83

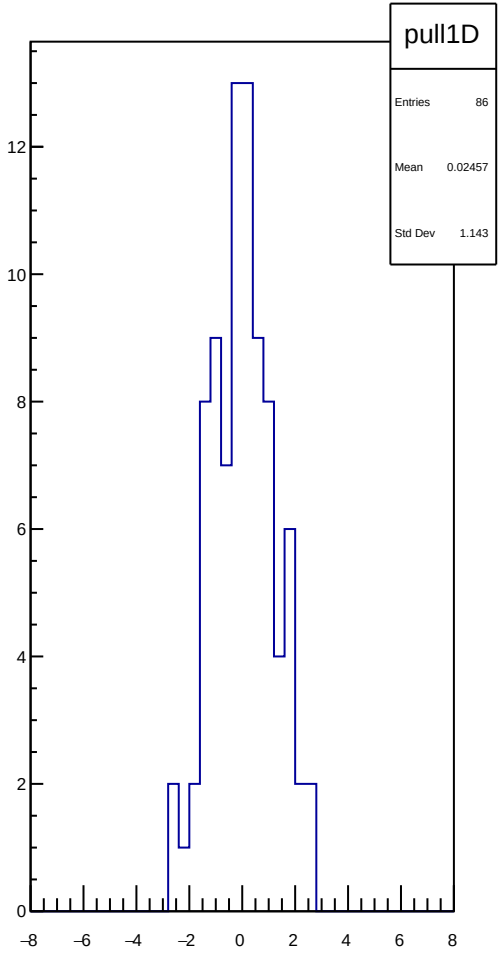

pull1D
Entries 86
Mean 0.09341
Std Dev 0.9871

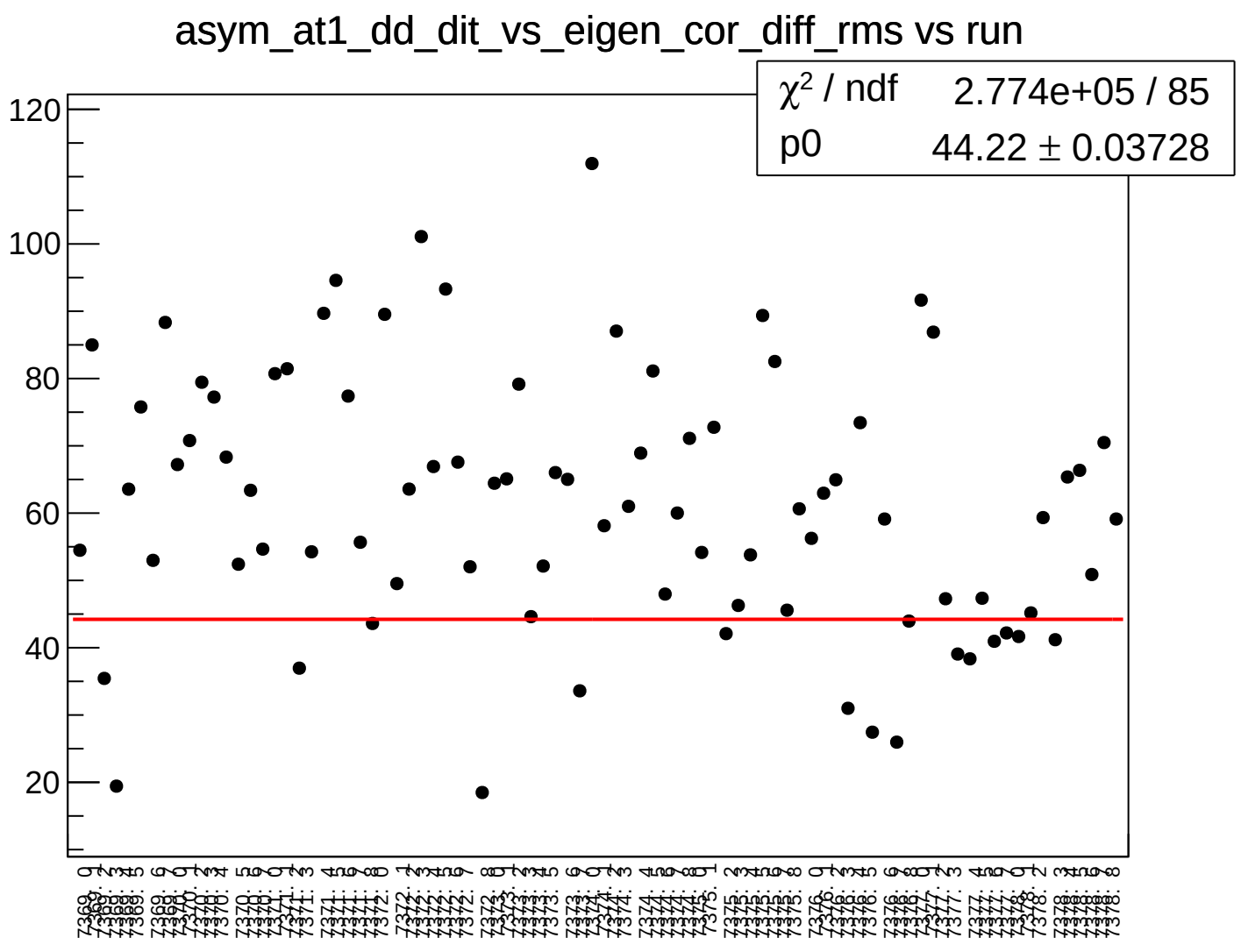

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.493e+06 / 85
p0 3.462e−12 ± 7.927e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

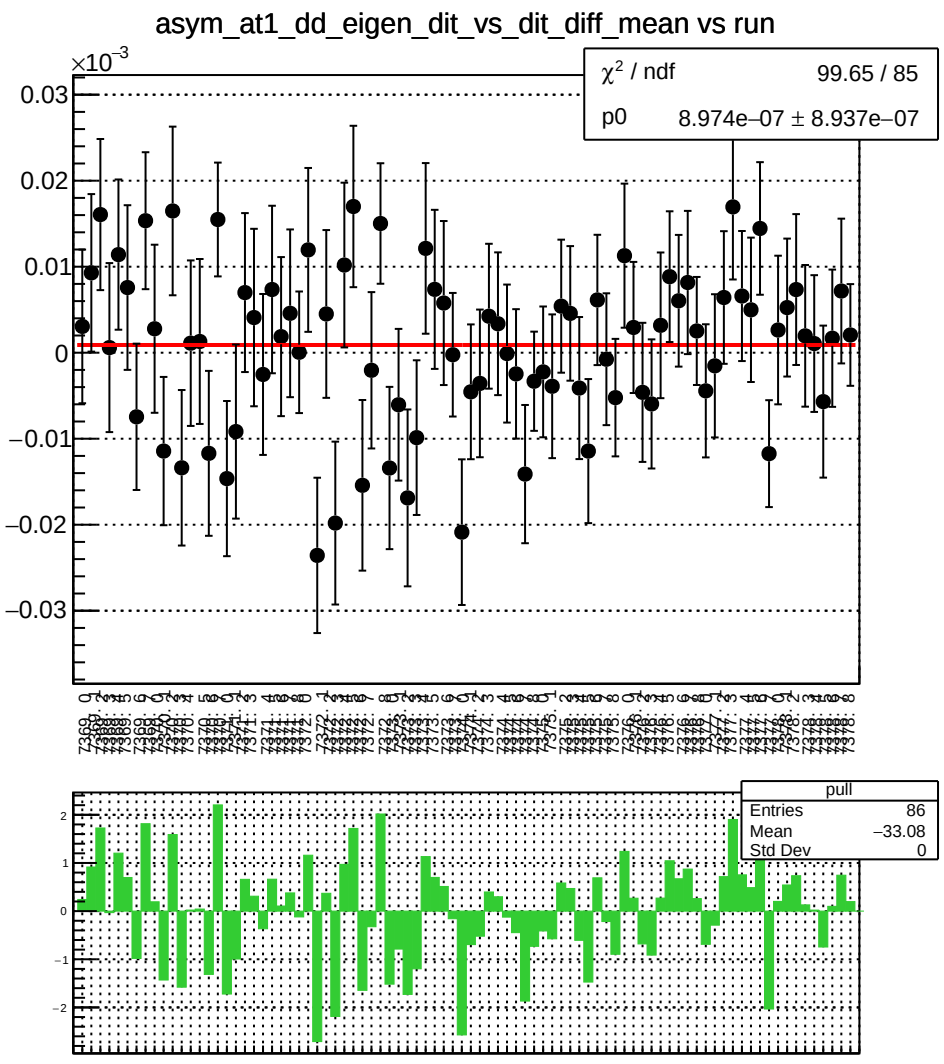

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.3 / 85
p0 0.03539 ± 0.05272
pull
Entries 86
Mean 38
Std Dev 0
pull1D
Entries 86
Mean 0.02457
Std Dev 1.143

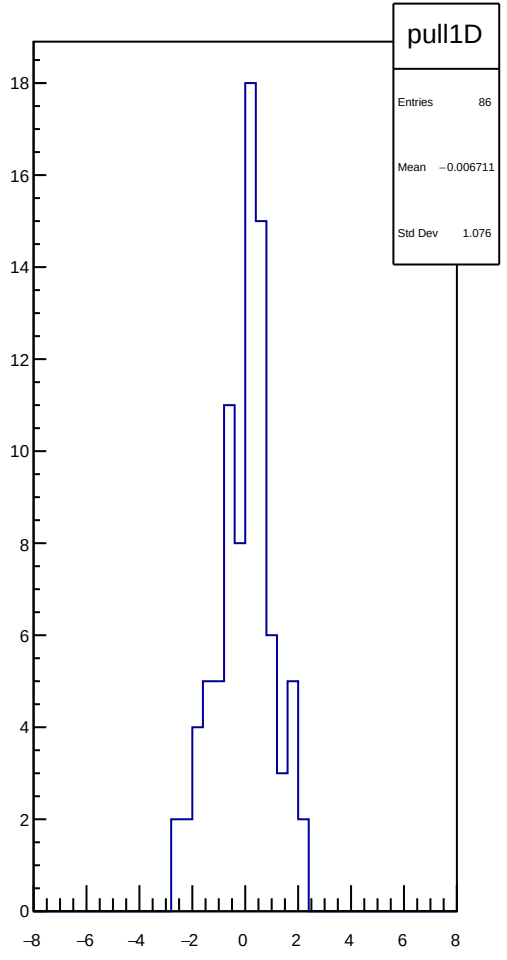

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.774e+05 / 85
p0 44.22 ± 0.03728
120
100
80
60
40
20

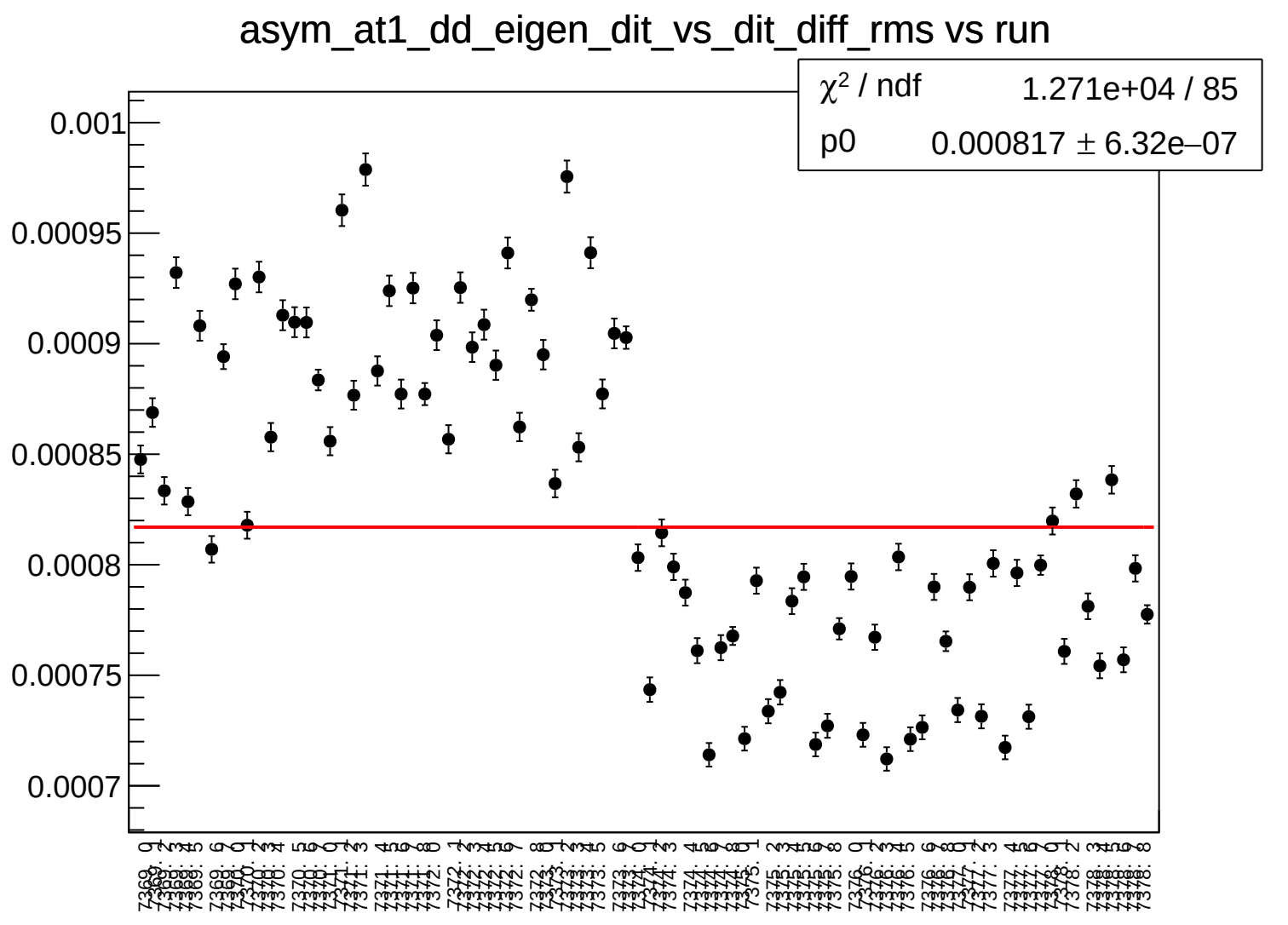

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.3 / 85
p0 0.03539 ± 0.05272
pull
Entries 86
Mean 38
Std Dev 0

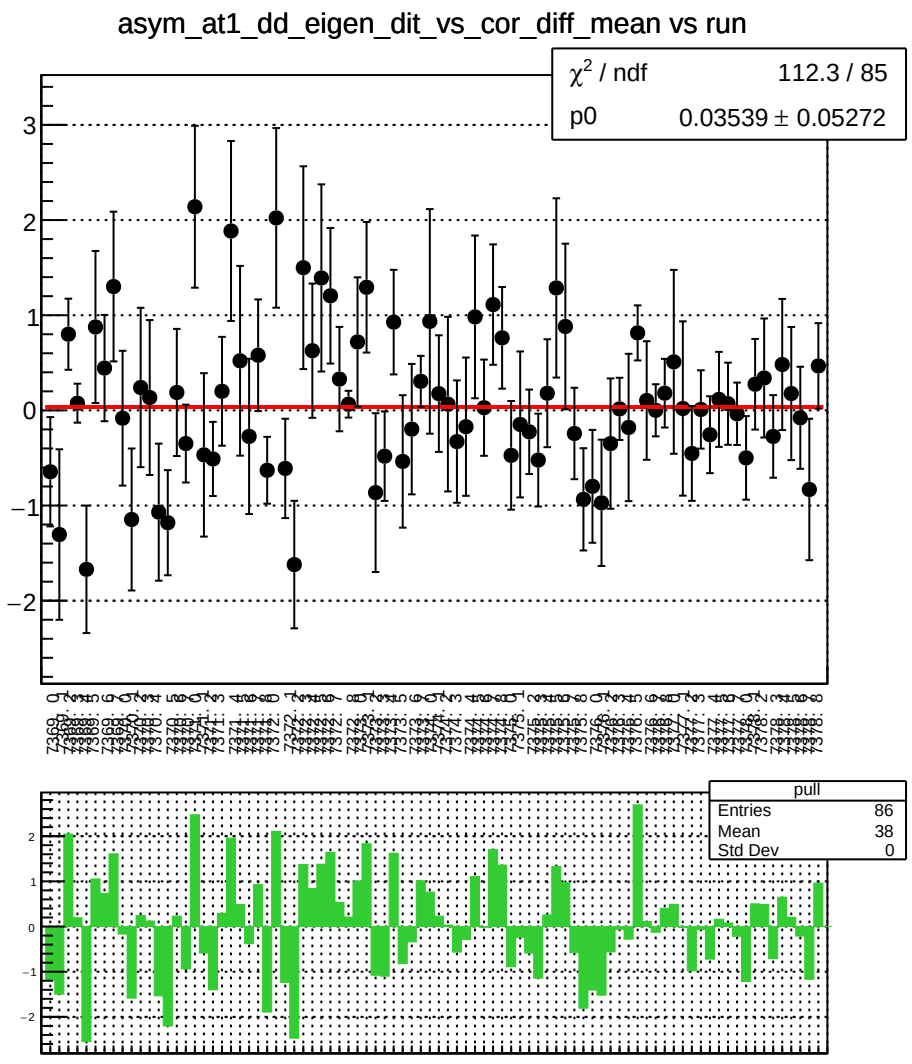

pull1D
Entries 86
Mean 0.02457
Std Dev 1.143

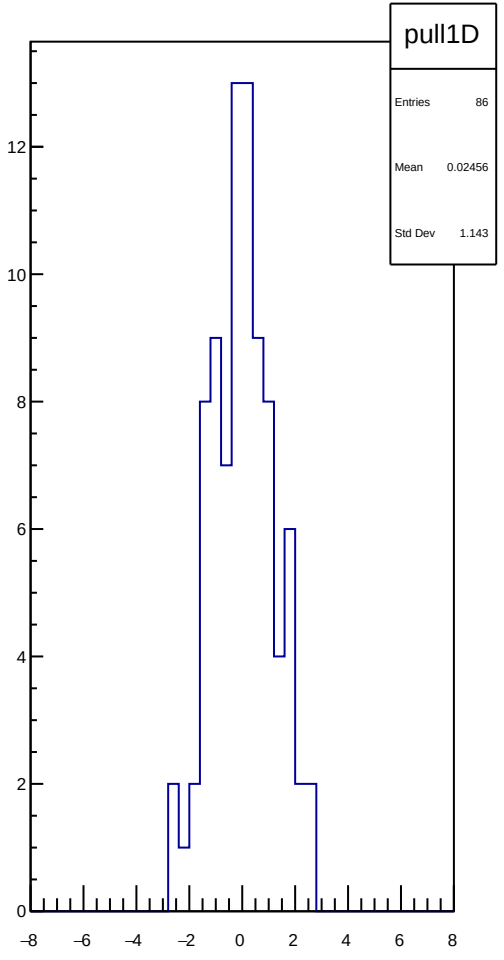

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.774e+05 / 85
p0 44.22 ± 0.03728
120
100
80
60
40
20

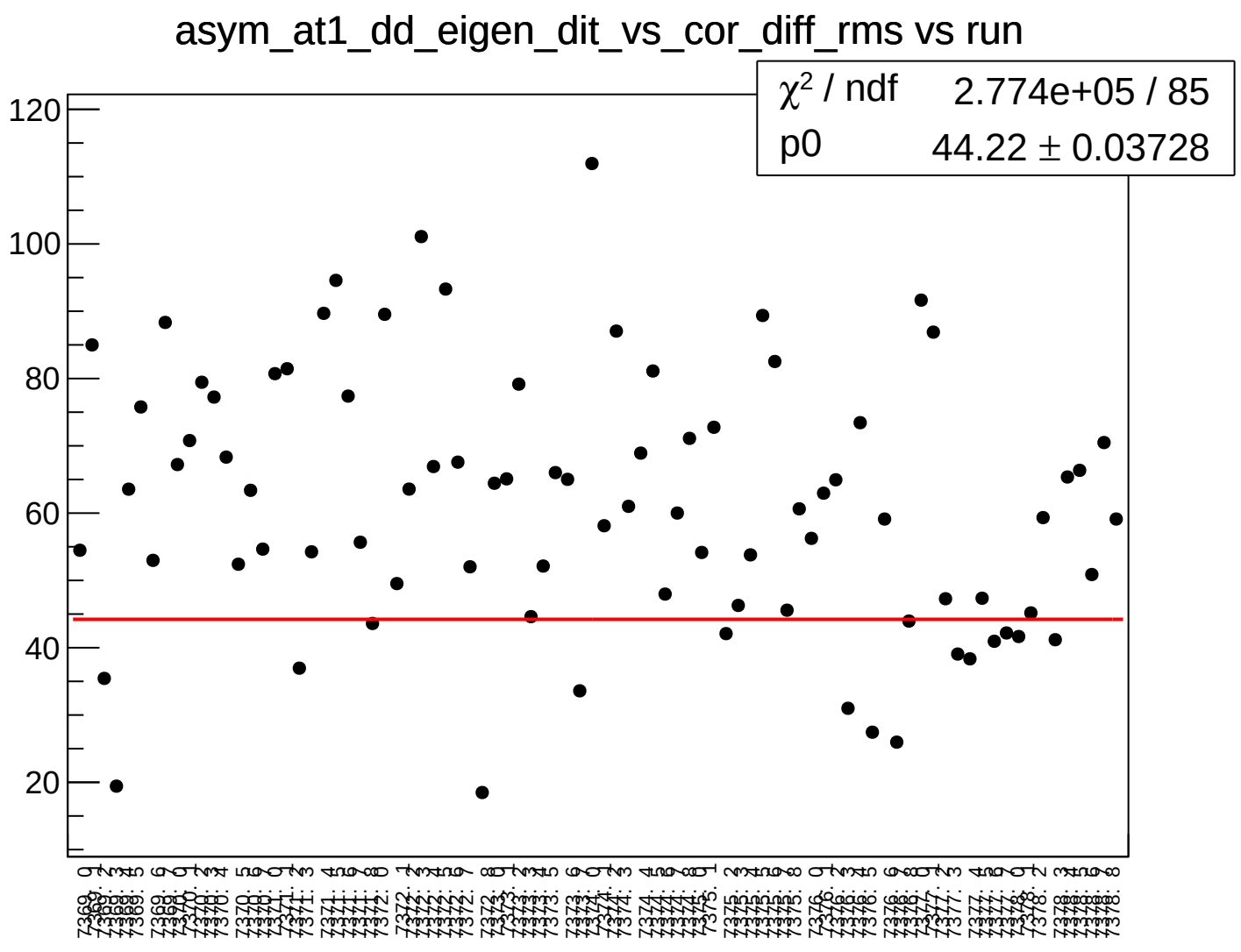

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.65 / 85
p0 8.974e−07 ± 8.937e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean −33.08
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.006711
Std Dev 1.076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

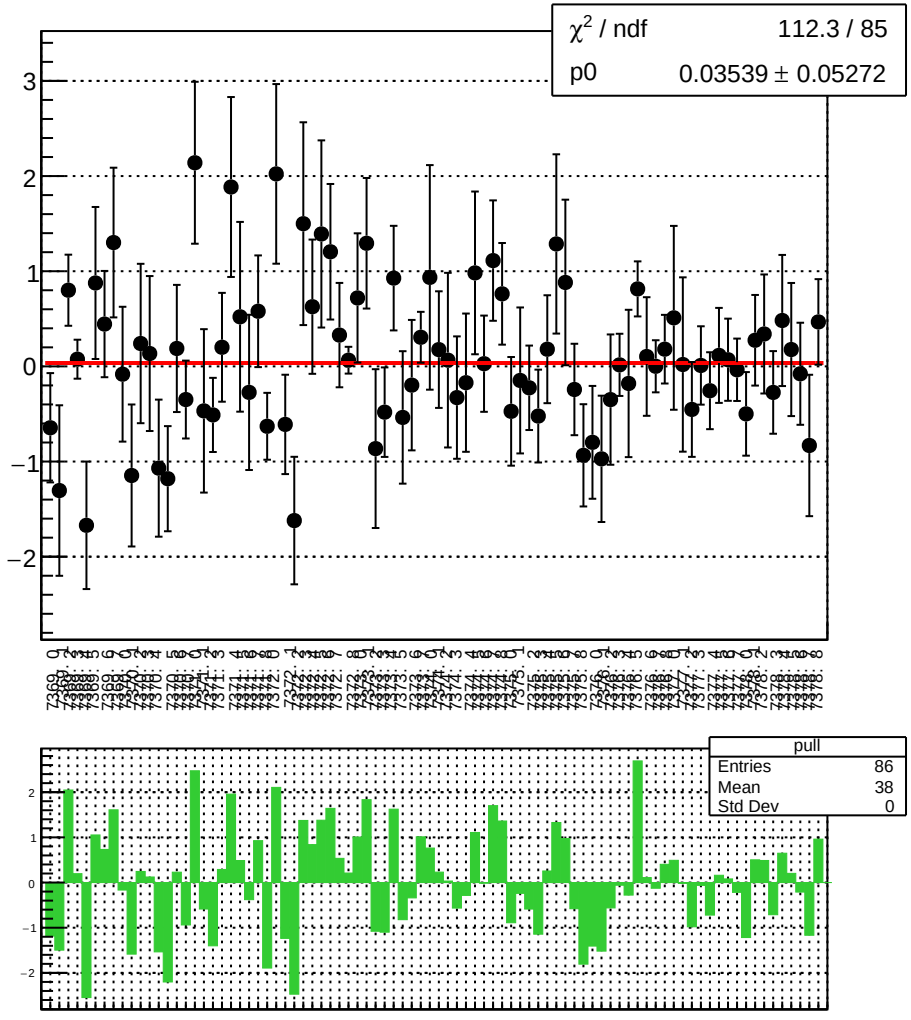

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.271e+04 / 85
p0 0.000817 ± 6.32e–07
0.001
0.00095
0.0009
0.00085
0.0008
0.00075
0.0007

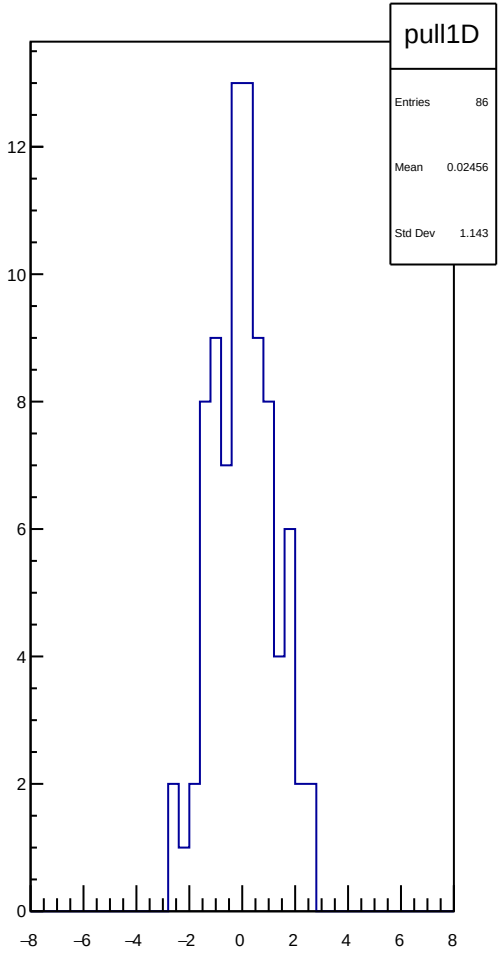

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.3 / 85
p0 0.03539 ± 0.05272
pull
Entries 86
Mean 38
Std Dev 0

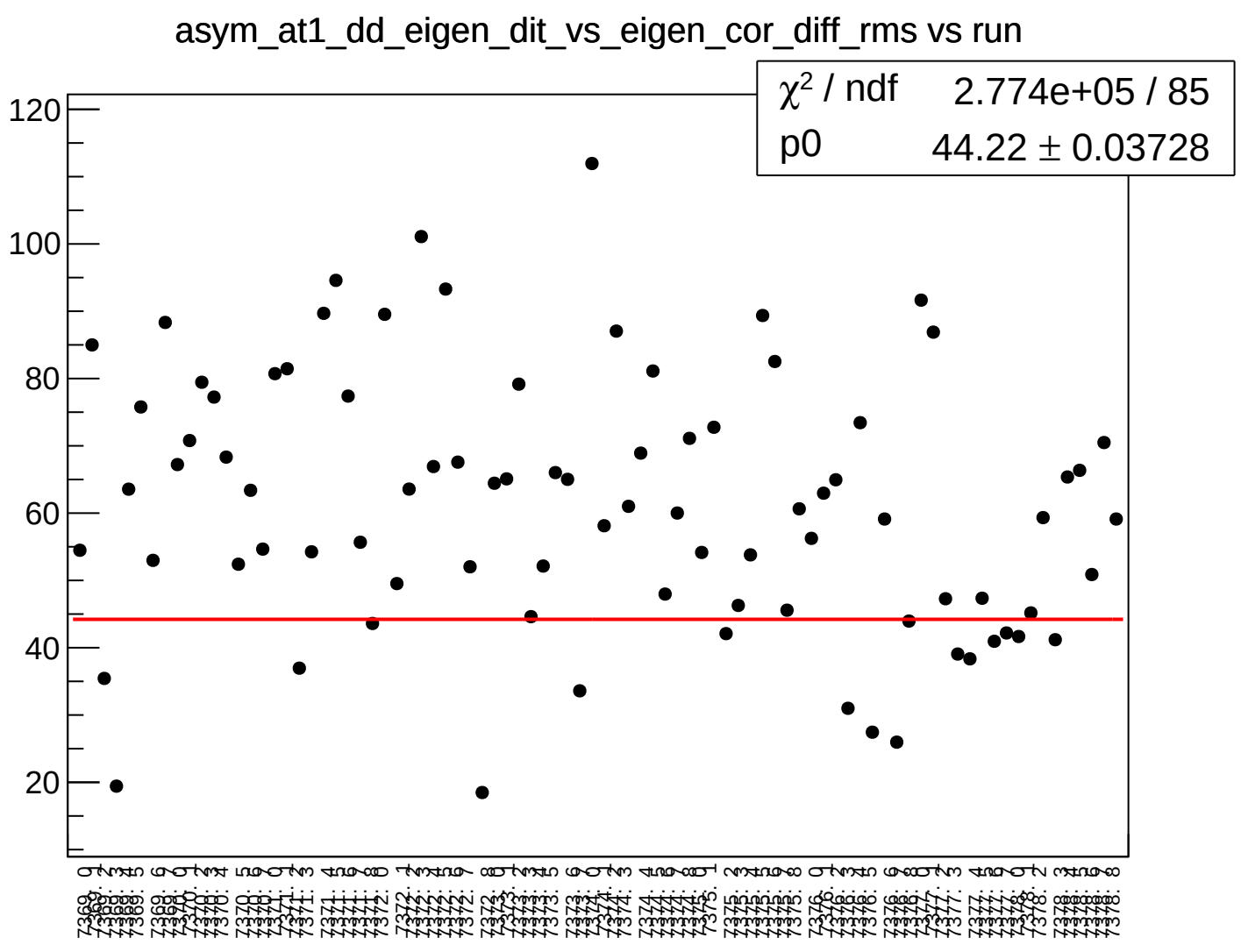

pull1D
Entries 86
Mean 0.02456
Std Dev 1.143

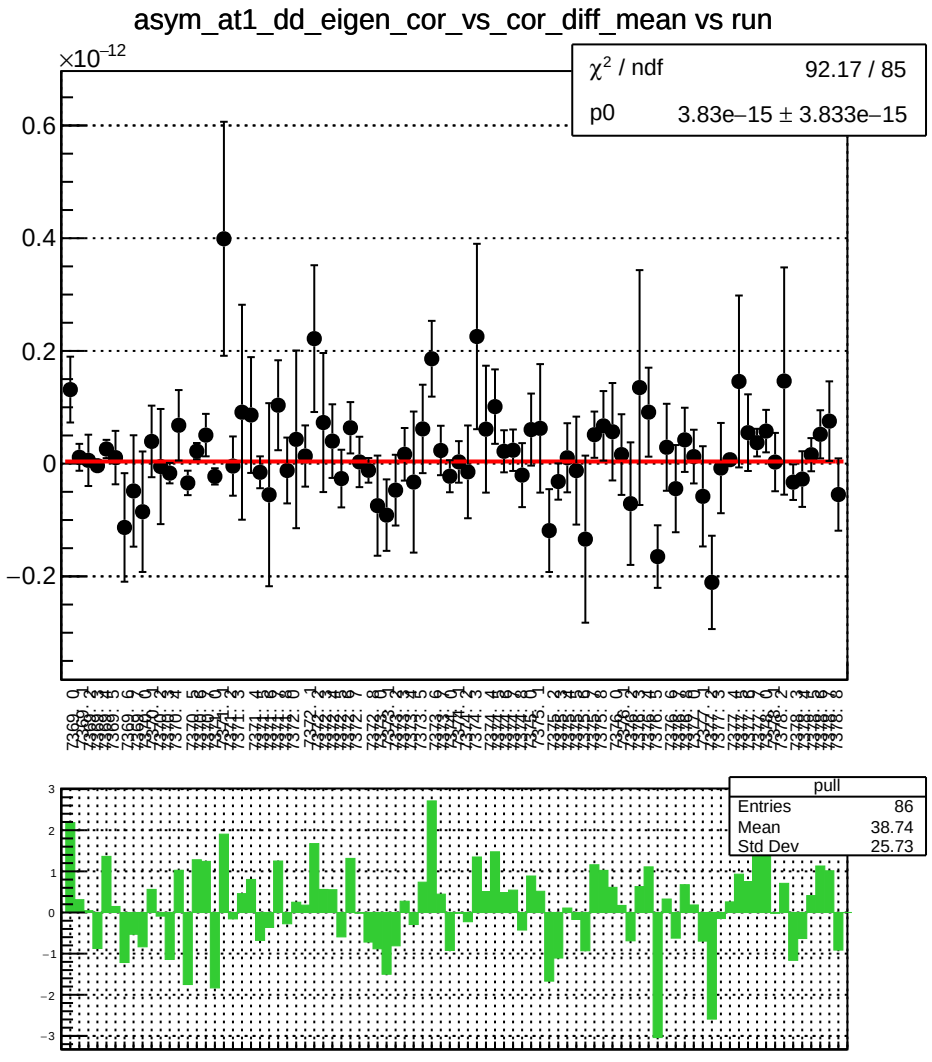

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.774e+05 / 85
p0 44.22 ± 0.03728
120
100
80
60
40
20

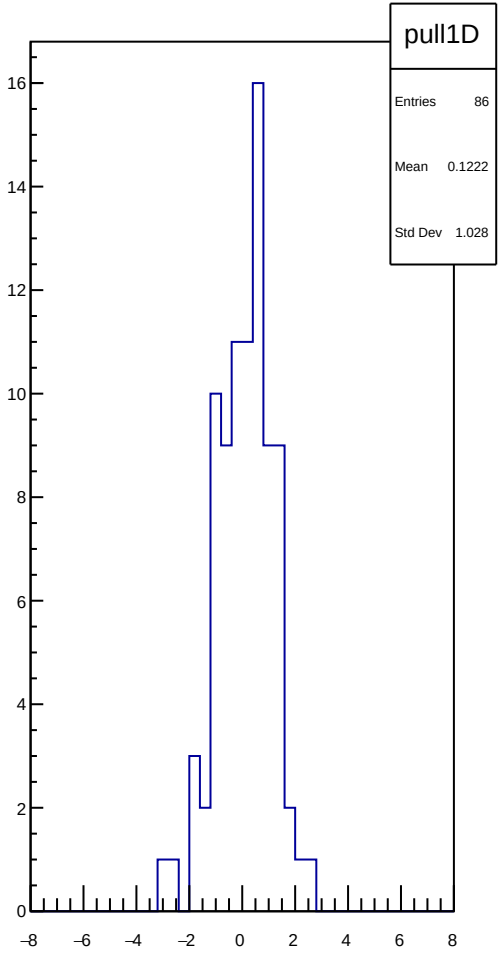
asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

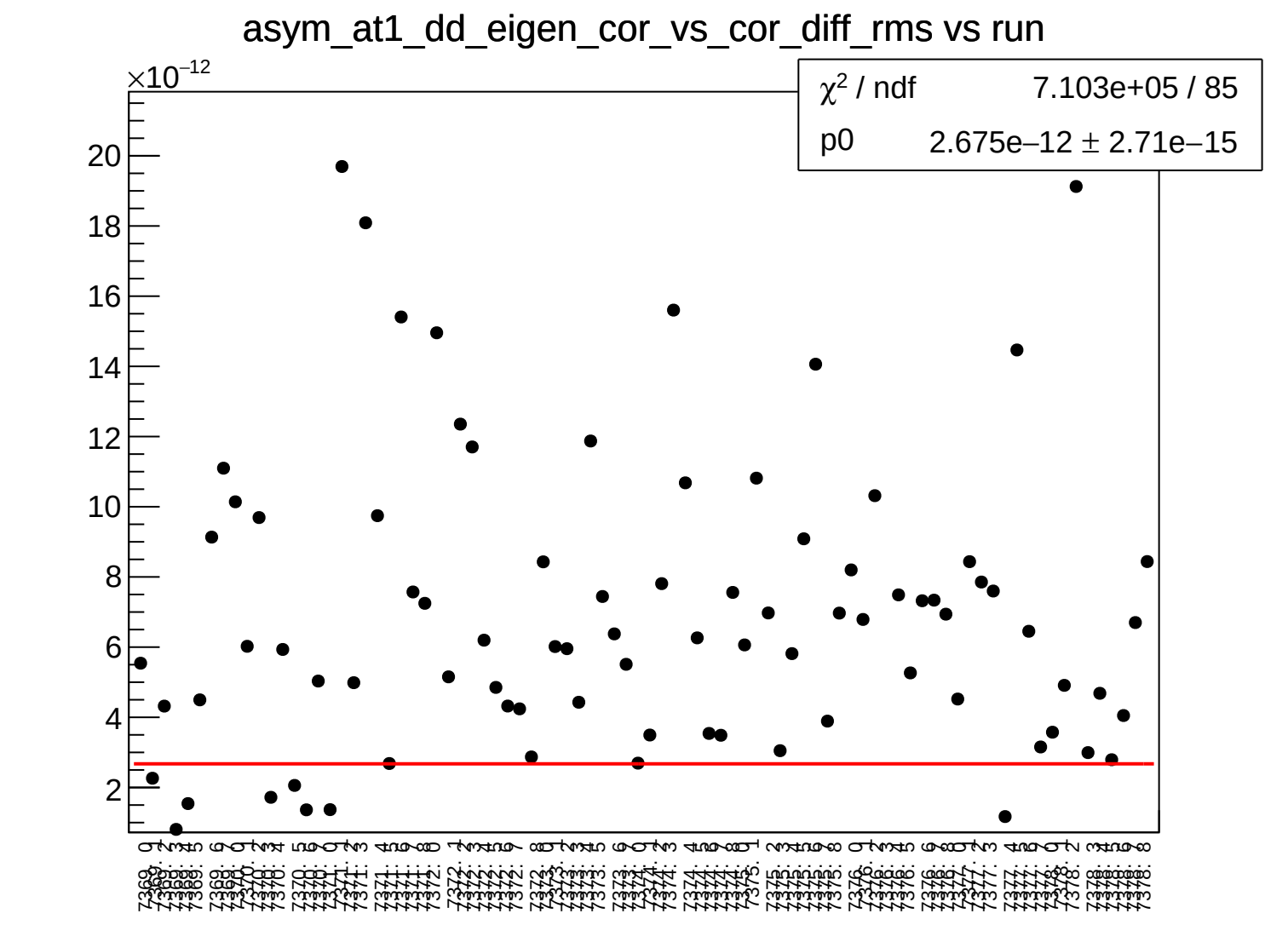


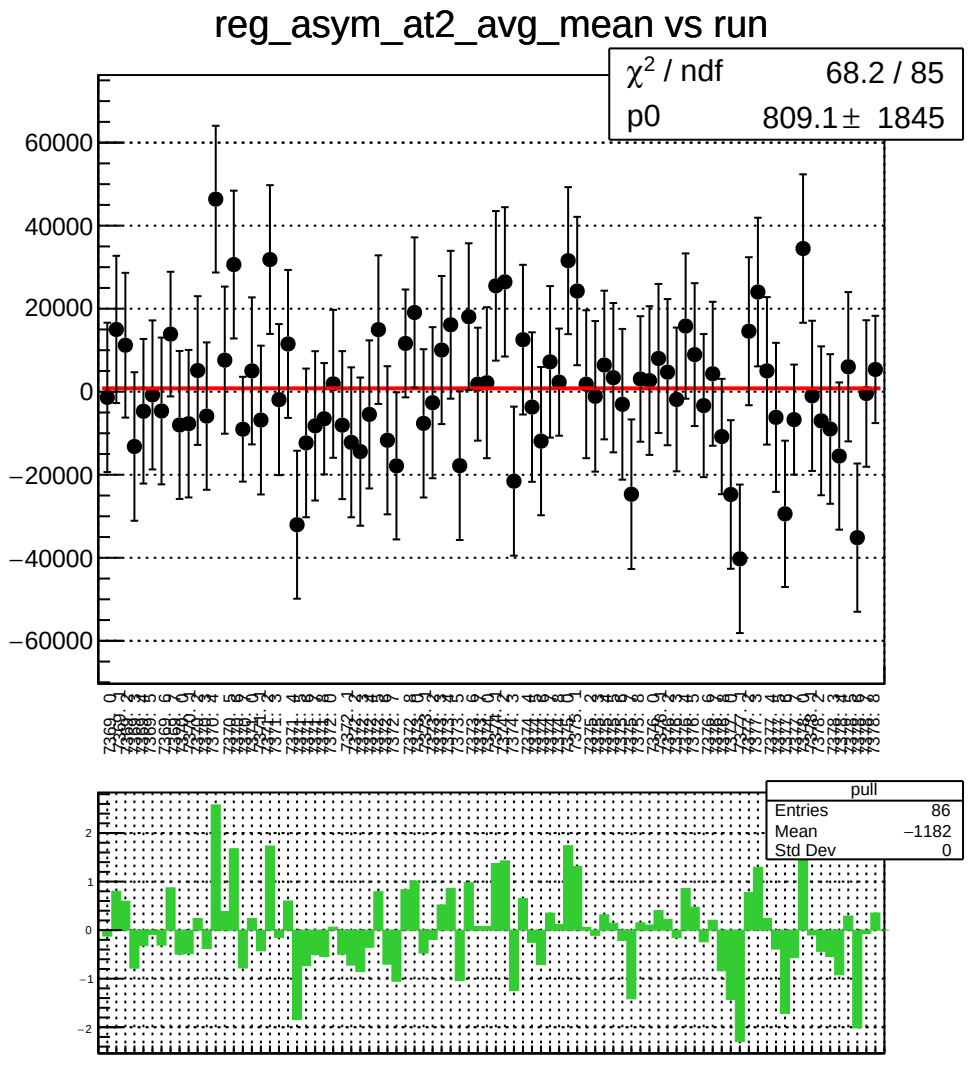


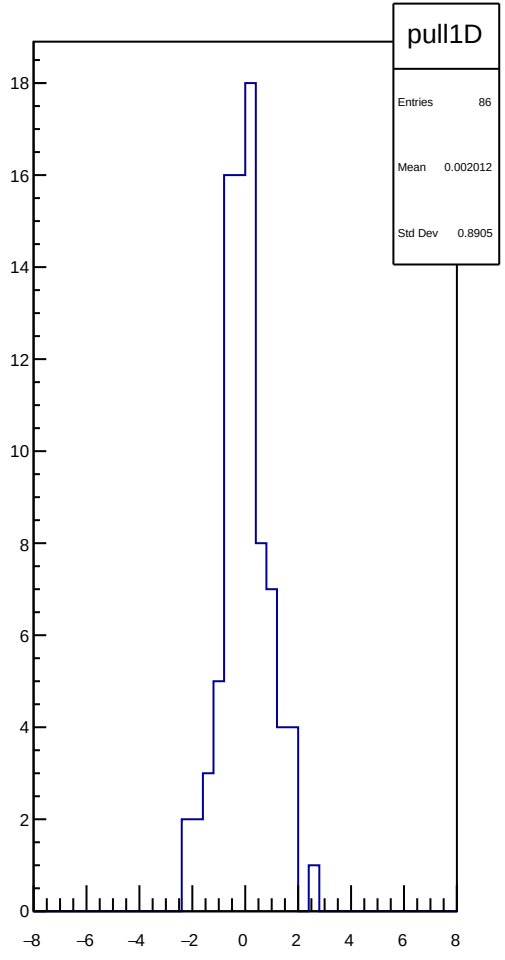

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.774e+05 / 85
p0 44.22 ± 0.03728
120
100
80
60
40
20

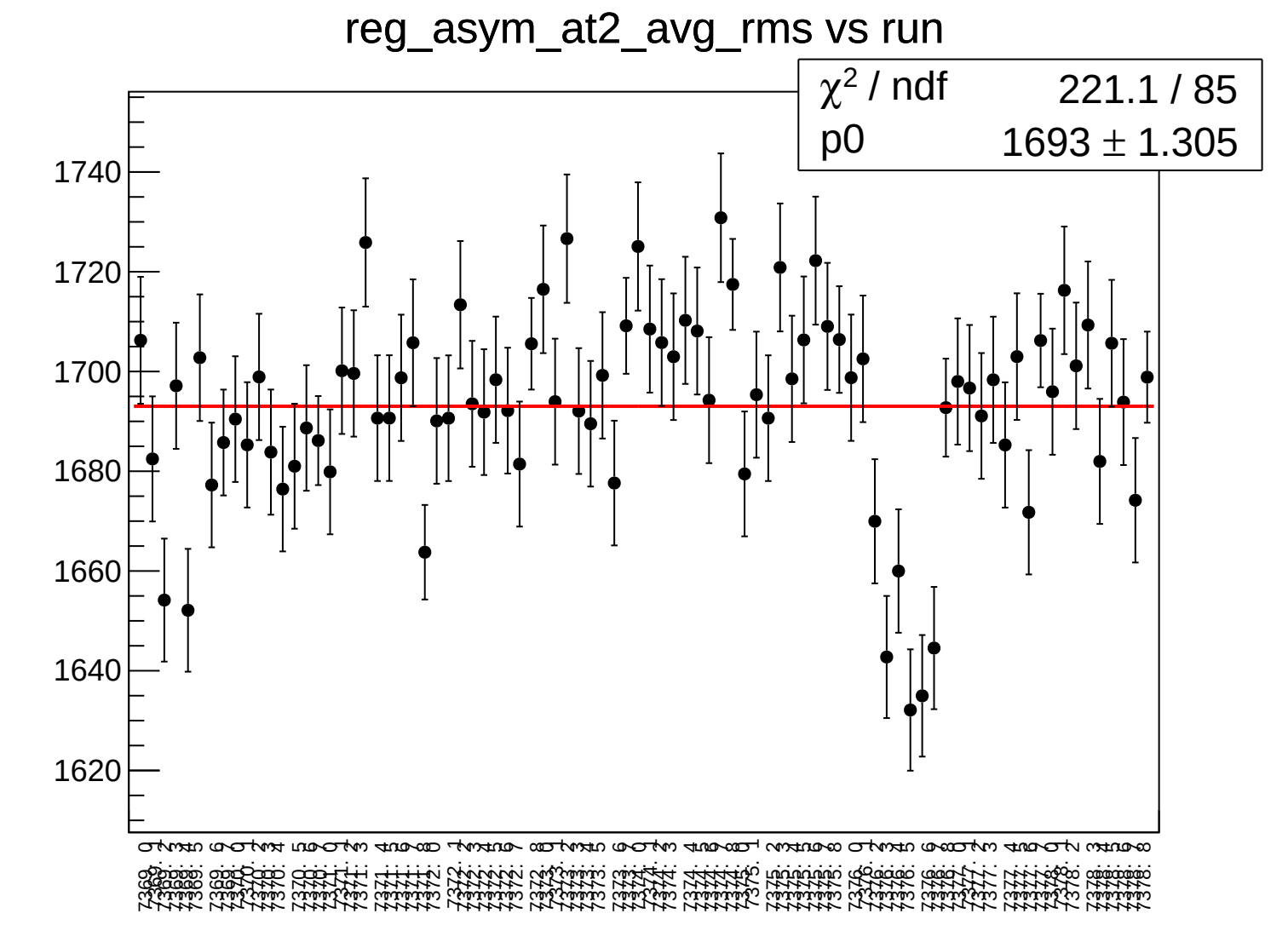

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.17 / 85
p0 3.83e−15 ± 3.833e−15
0.6
0.4
0.2
0
−0.2
pull
Entries 86
Mean 38.74
Std Dev 25.73
3
2
1
0
−1
−2
−3

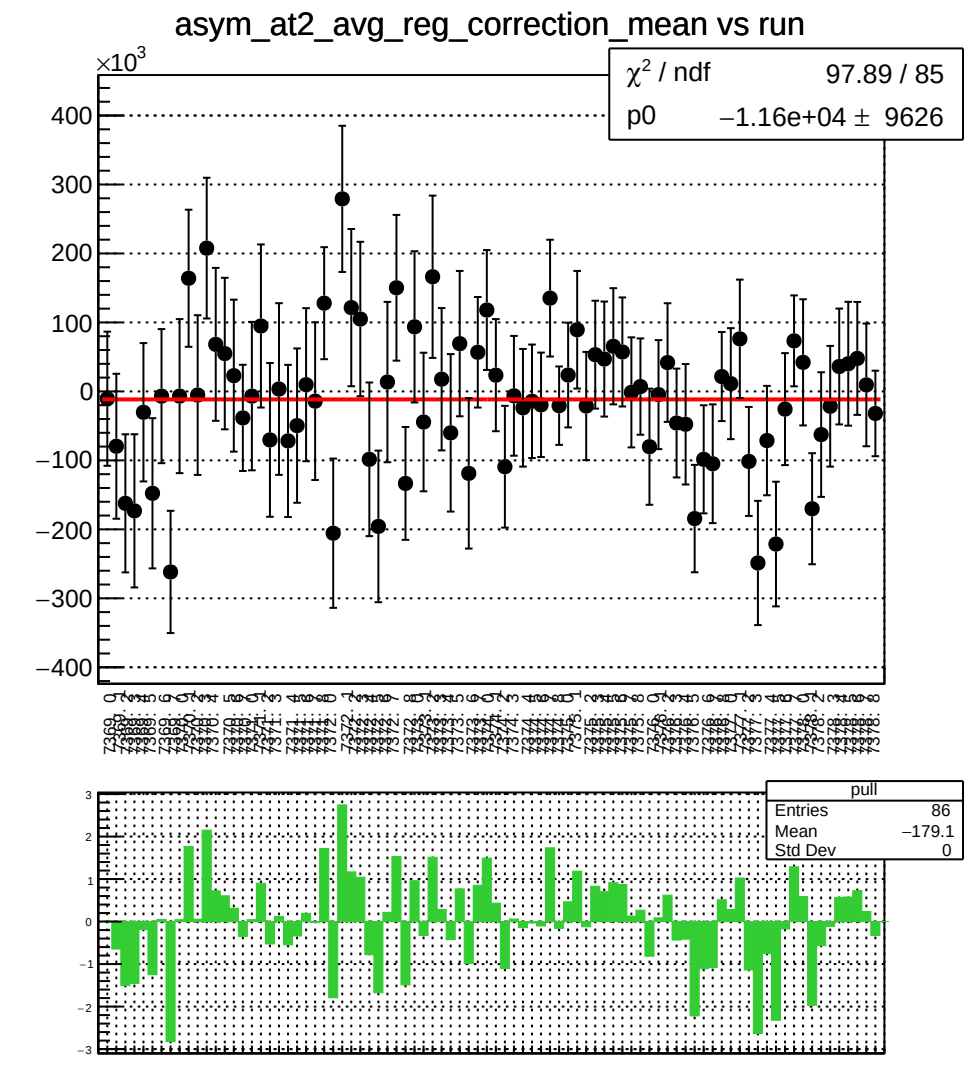

pull1D
Entries 86
Mean 0.1222
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

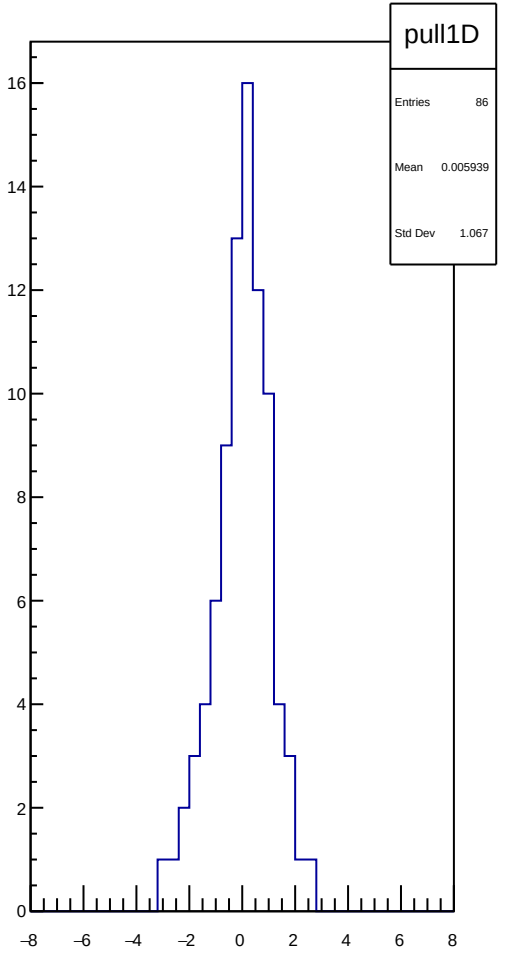

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.103e+05 / 85
p0 2.675e−12 ± 2.71e−15
20
18
16
14
12
10
8
6
4
2

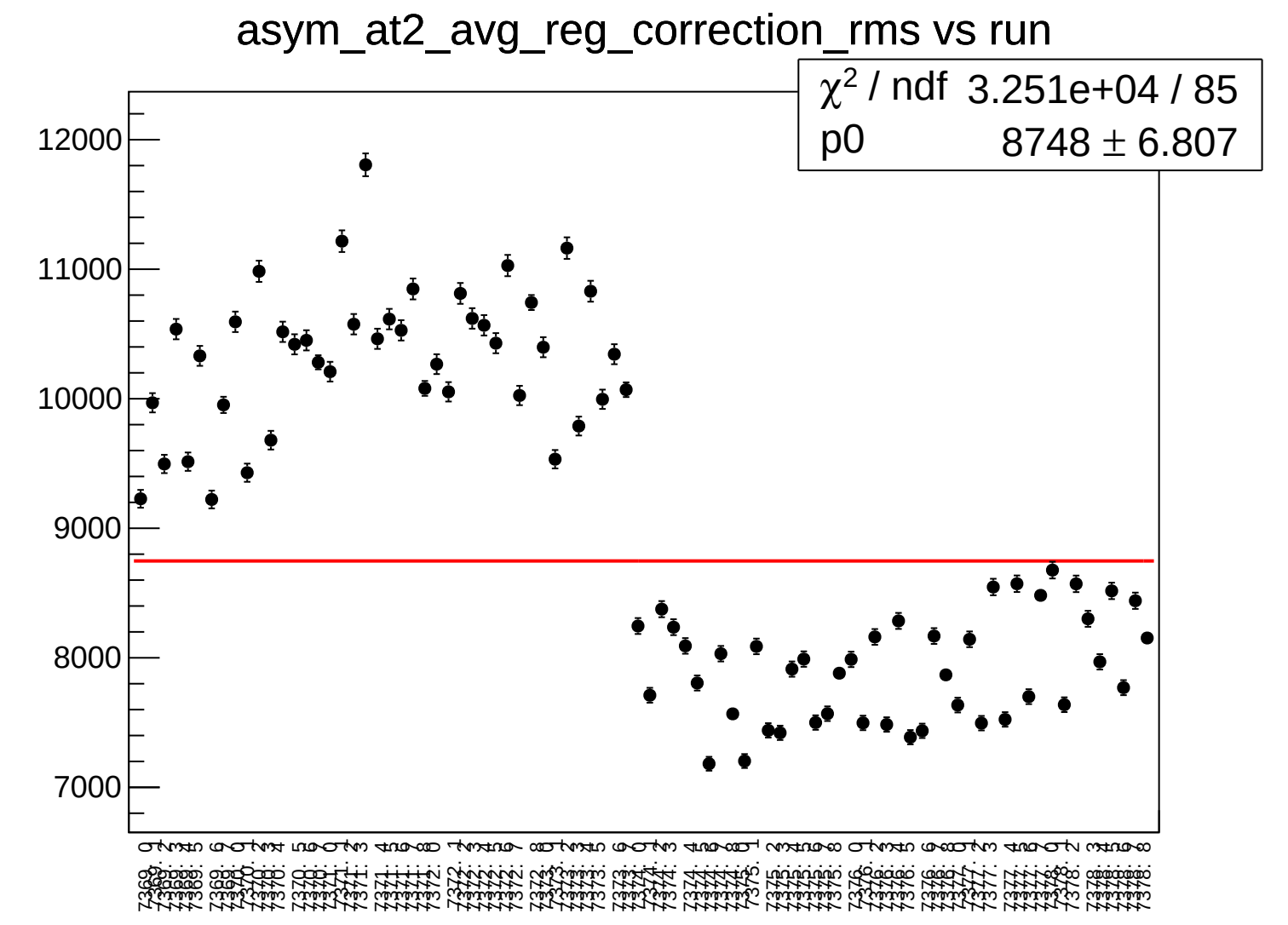

reg_asym_at2_avg_mean vs run
χ² / ndf 68.2 / 85
p0 809.1± 1845
pull
Entries 86
Mean −1182
Std Dev 0

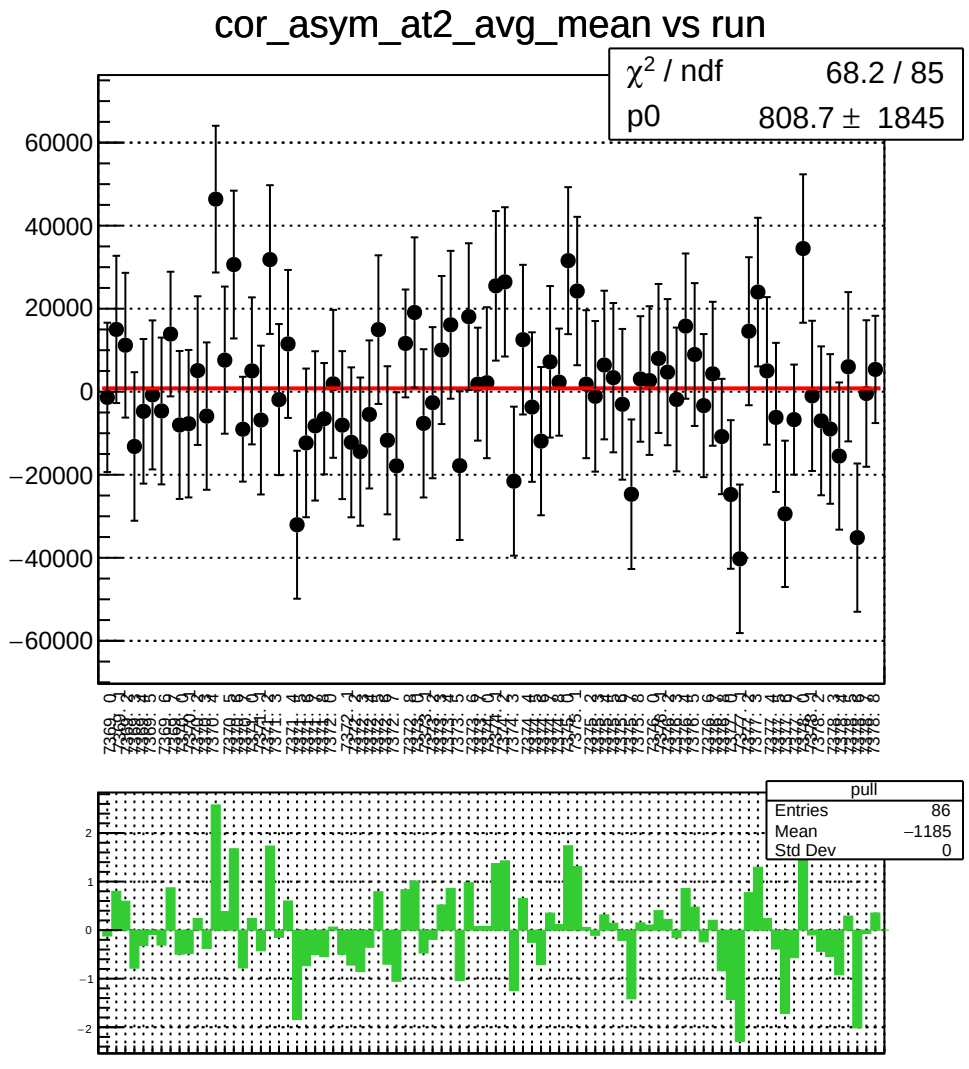

pull1D
Entries 86
Mean 0.002012
Std Dev 0.8905

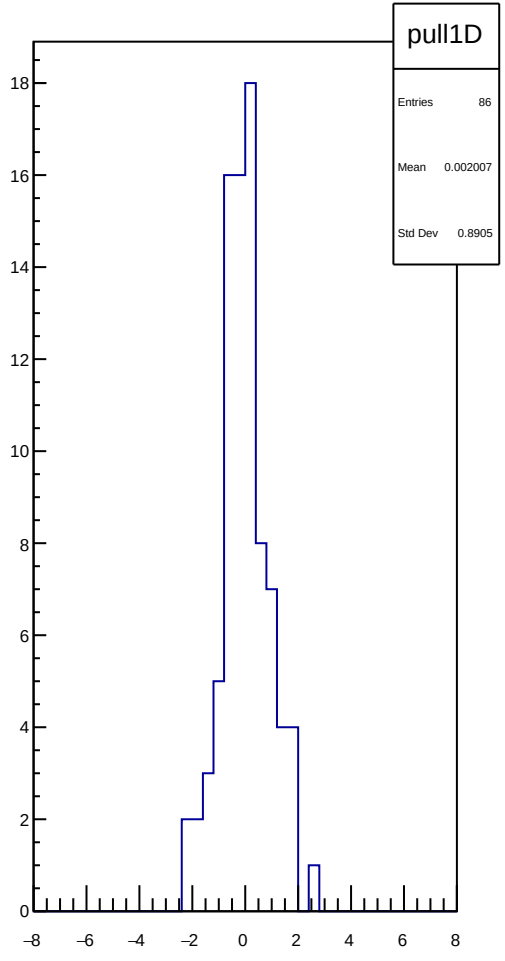

reg_asym_at2_avg_rms vs run
χ² / ndf 221.1 / 85
p0 1693 ± 1.305
1740
1720
1700
1680
1660
1640
1620

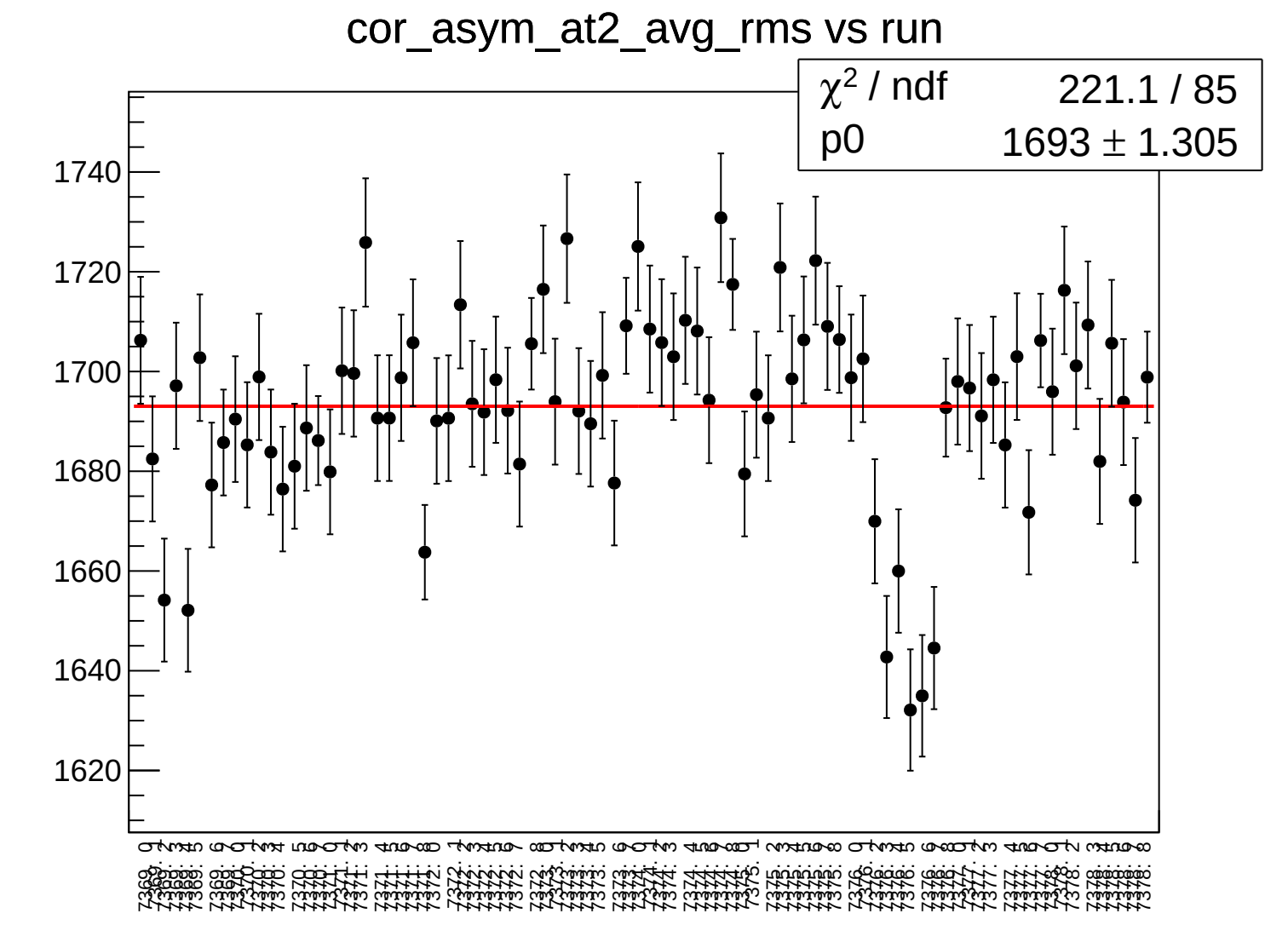

asym_at2_avg_reg_correction_mean vs run
χ² / ndf 97.89 / 85
p0 −1.16e+04 ± 9626
×10³
pull
Entries 86
Mean −179.1
Std Dev 0

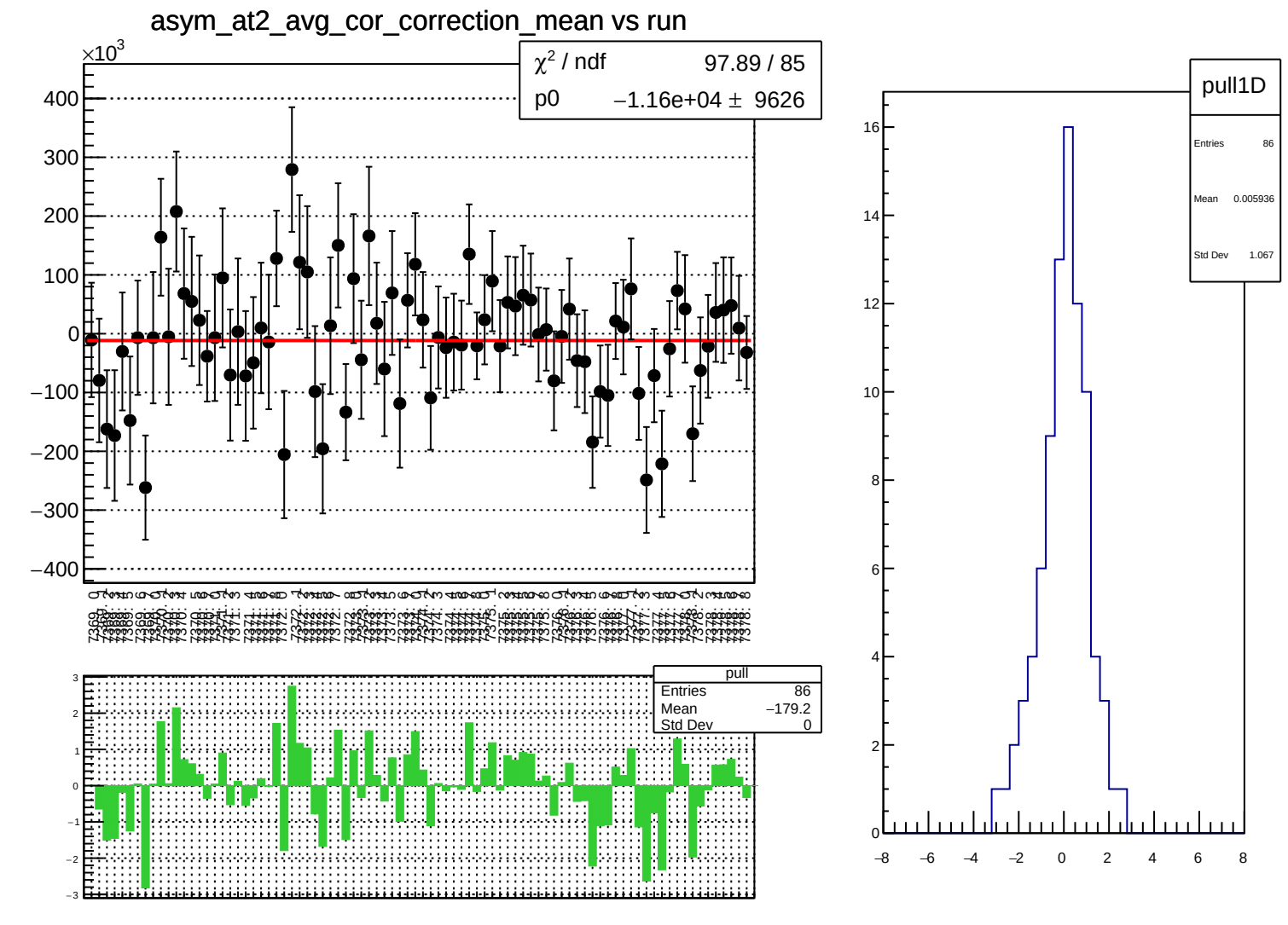

pull1D
Entries 86
Mean 0.005939
Std Dev 1.067

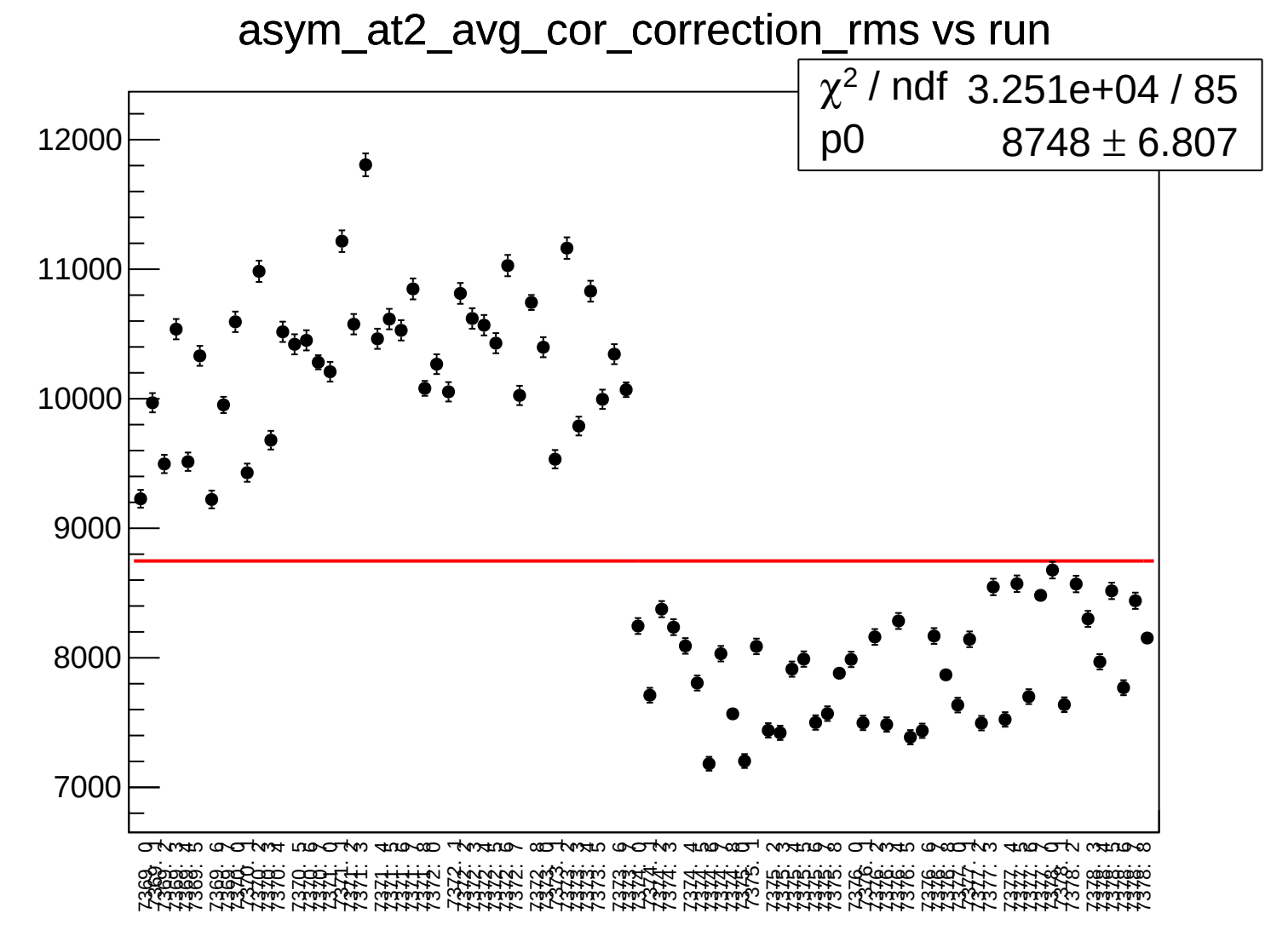

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 3.251e+04 / 85
p0 8748 ± 6.807
12000
11000
10000
9000
8000
7000

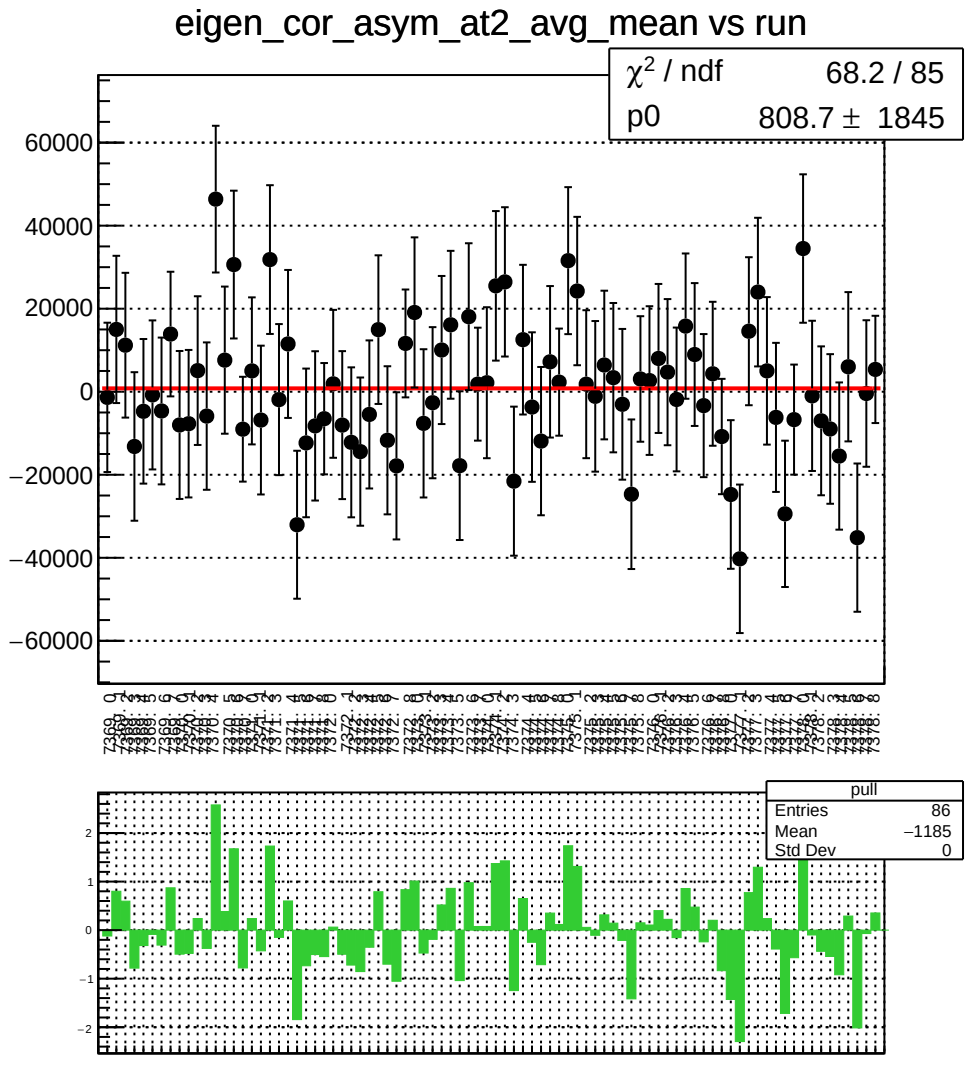

cor_asym_at2_avg_mean vs run
χ² / ndf 68.2 / 85
p0 808.7 ± 1845
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1185
Std Dev 0
2
1
0
−1
−2

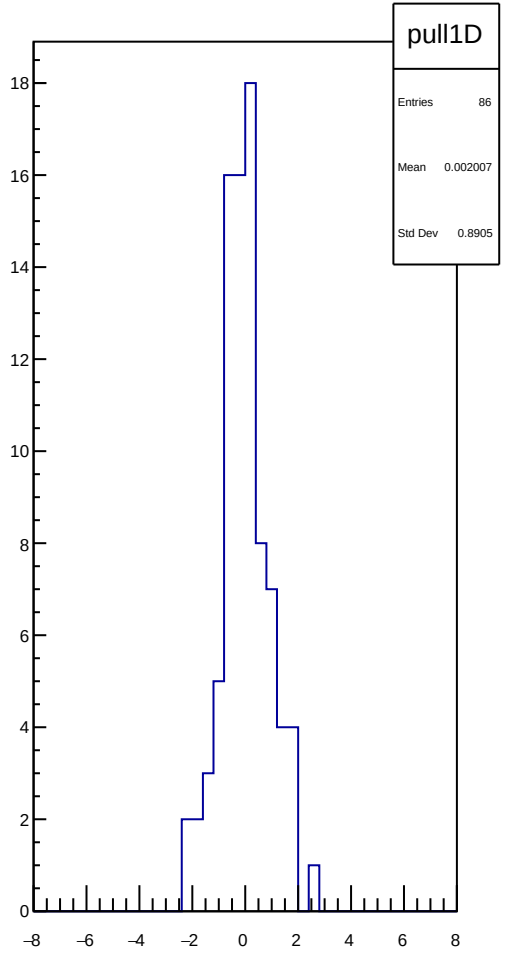

pull1D
Entries 86
Mean 0.002007
Std Dev 0.8905
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

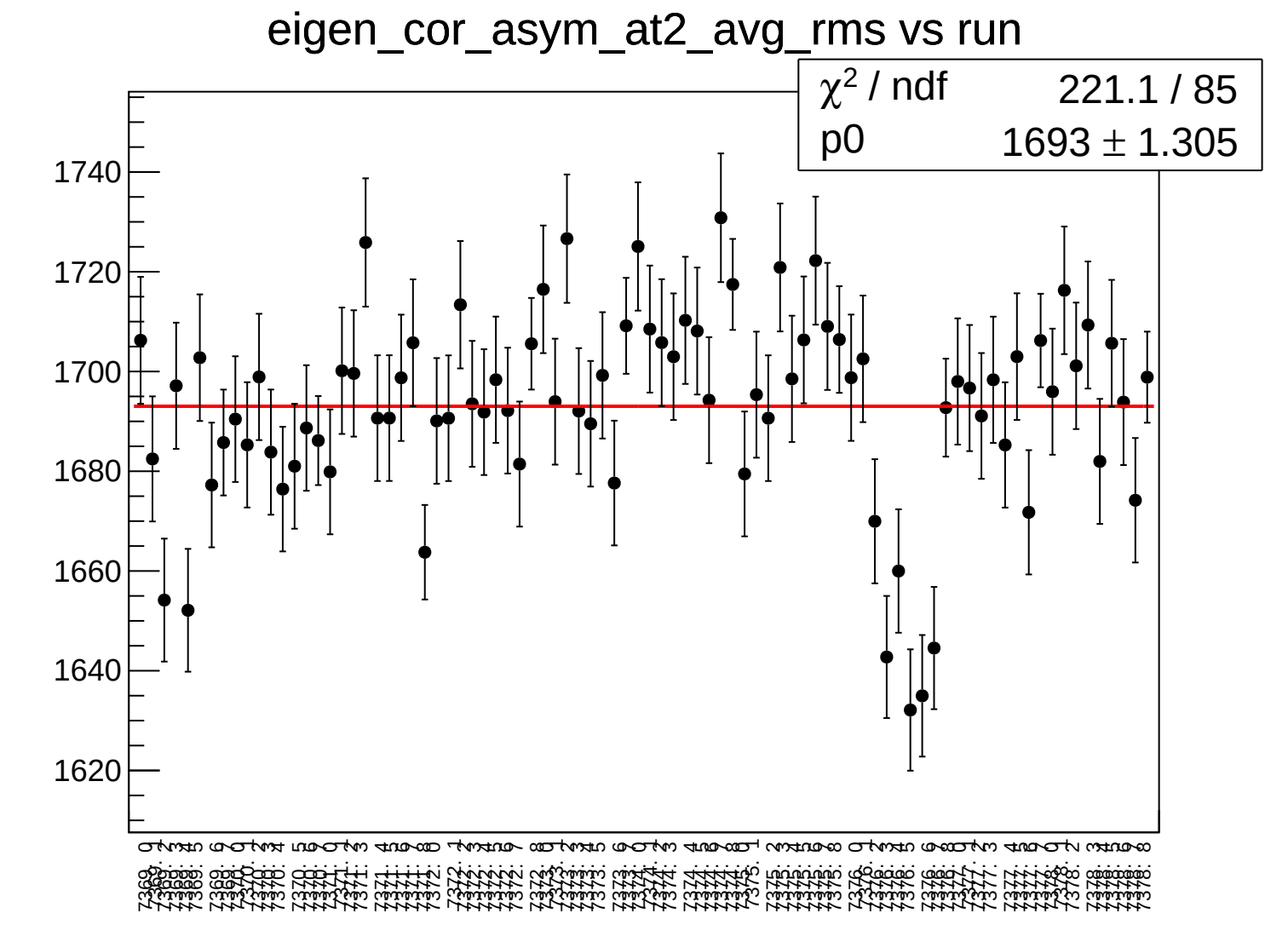

cor_asym_at2_avg_rms vs run
χ^2 / ndf 221.1 / 85
p0 1693 ± 1.305
1740
1720
1700
1680
1660
1640
1620

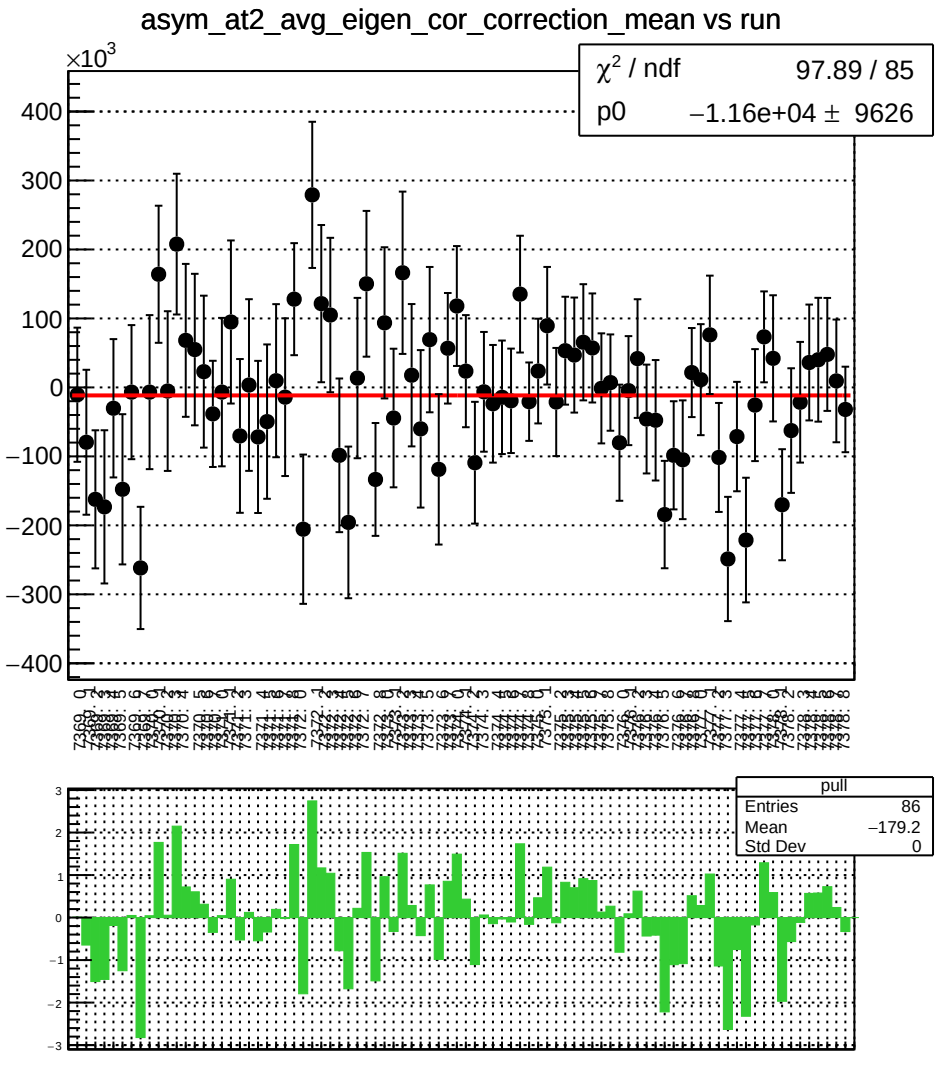

asym_at2_avg_cor_correction_mean vs run
χ² / ndf 97.89 / 85
p0 −1.16e+04 ± 9626
×10³
pull
Entries 86
Mean −179.2
Std Dev 0
pull1D
Entries 86
Mean 0.005936
Std Dev 1.067

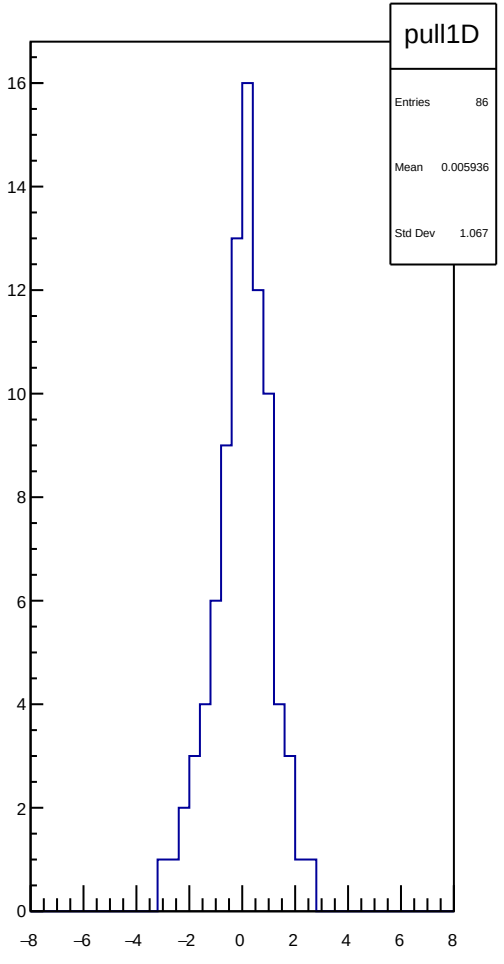

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 3.251e+04 / 85
p0 8748 ± 6.807
12000
11000
10000
9000
8000
7000

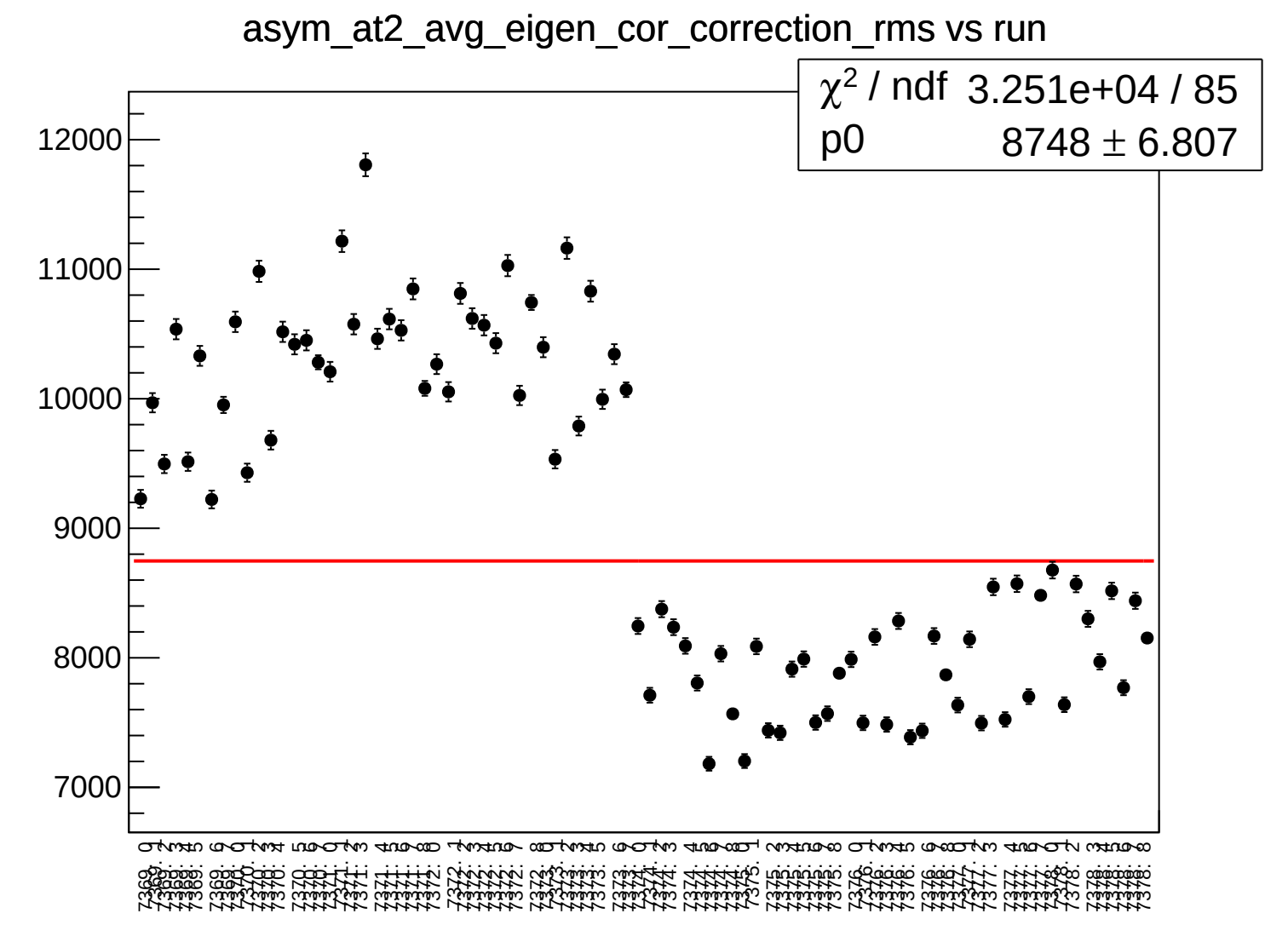

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 68.2 / 85
p0 808.7 ± 1845
pull
Entries 86
Mean −1185
Std Dev 0

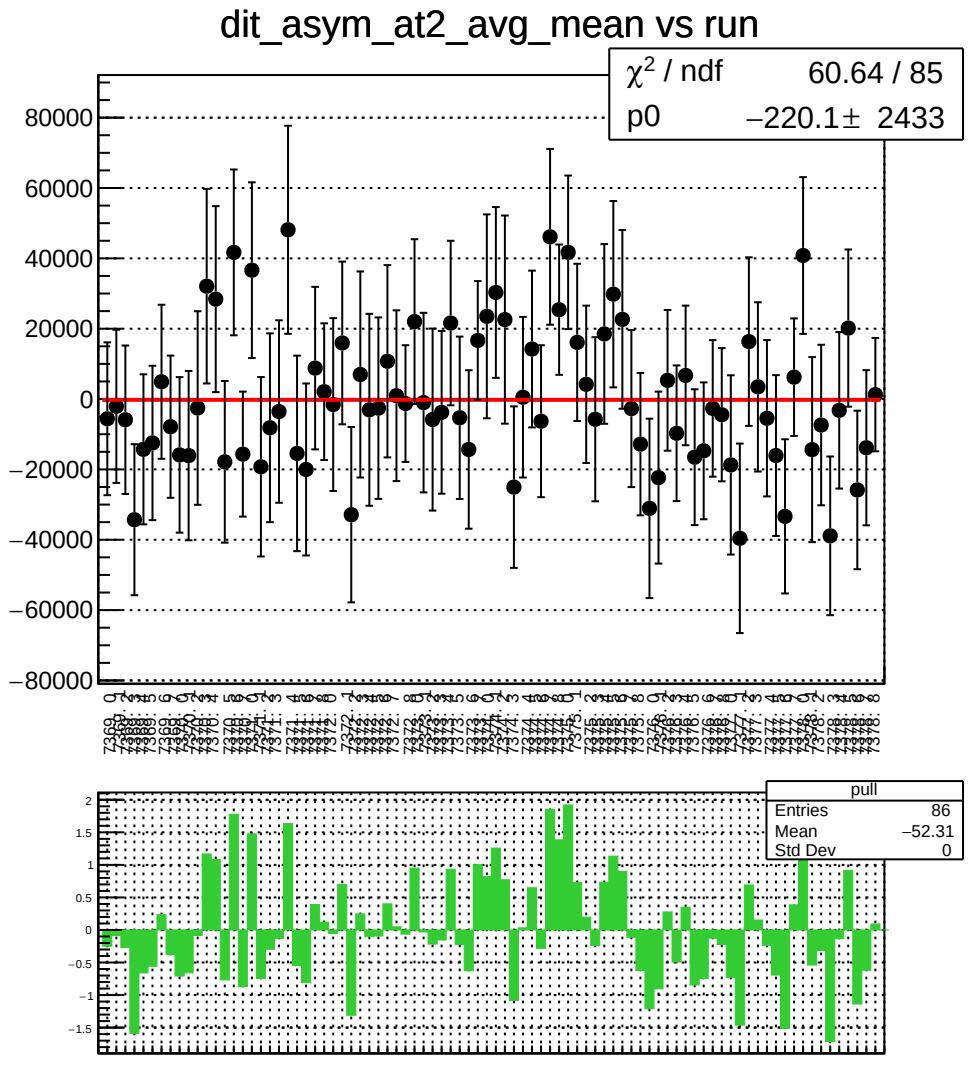

pull1D
Entries 86
Mean 0.002007
Std Dev 0.8905

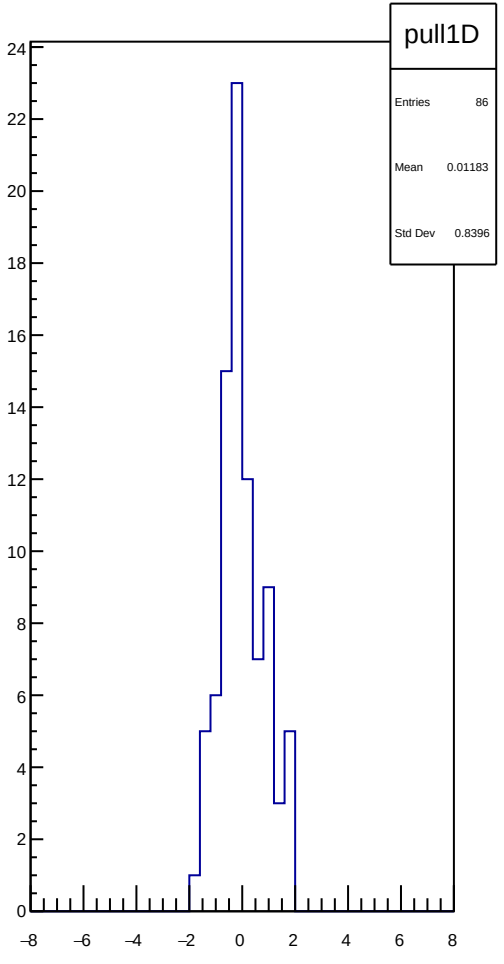

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 221.1 / 85
p0 1693 ± 1.305
1740
1720
1700
1680
1660
1640
1620

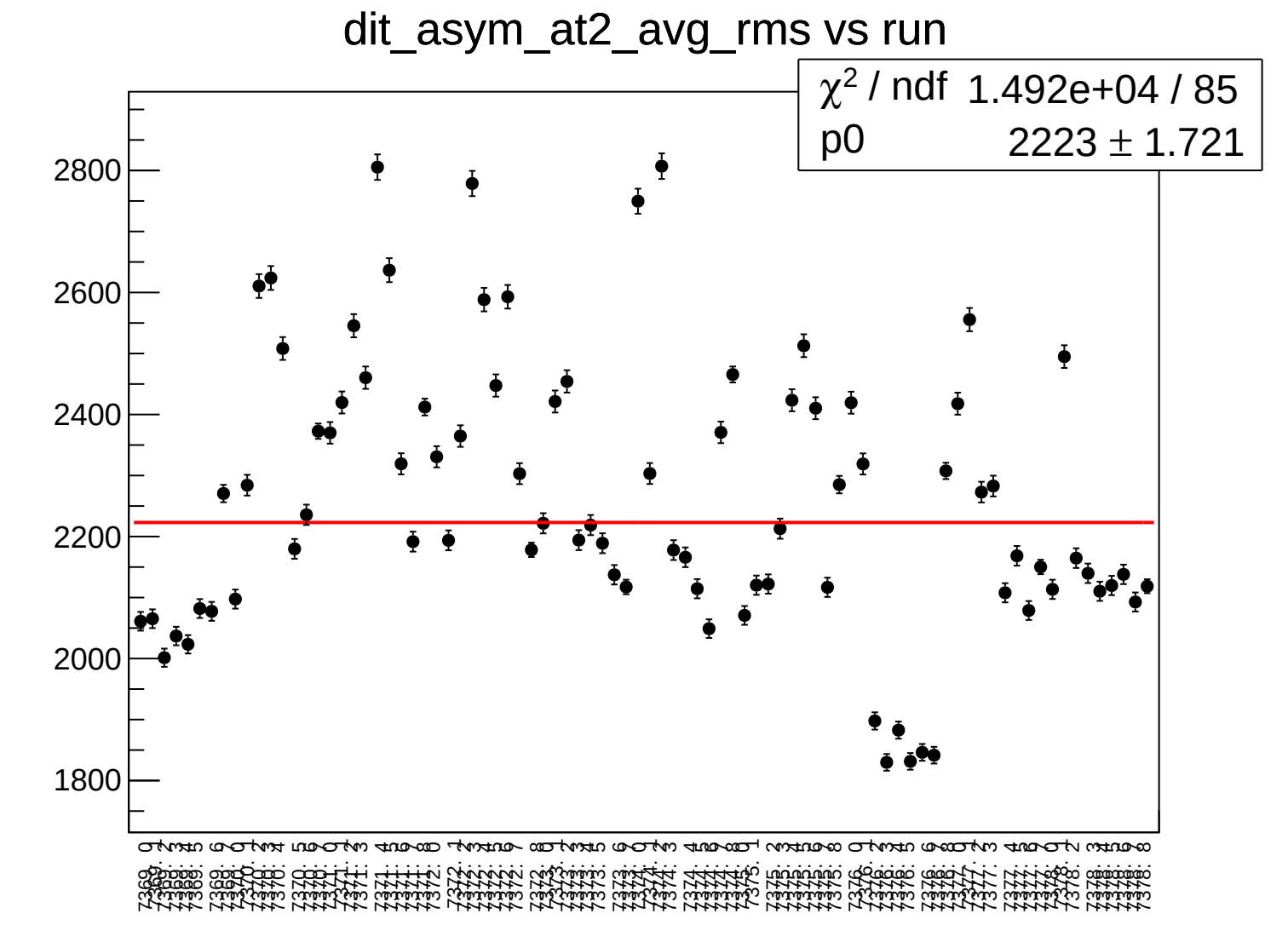

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.89 / 85
p0 −1.16e+04 ± 9626
pull
Entries 86
Mean −179.2
Std Dev 0

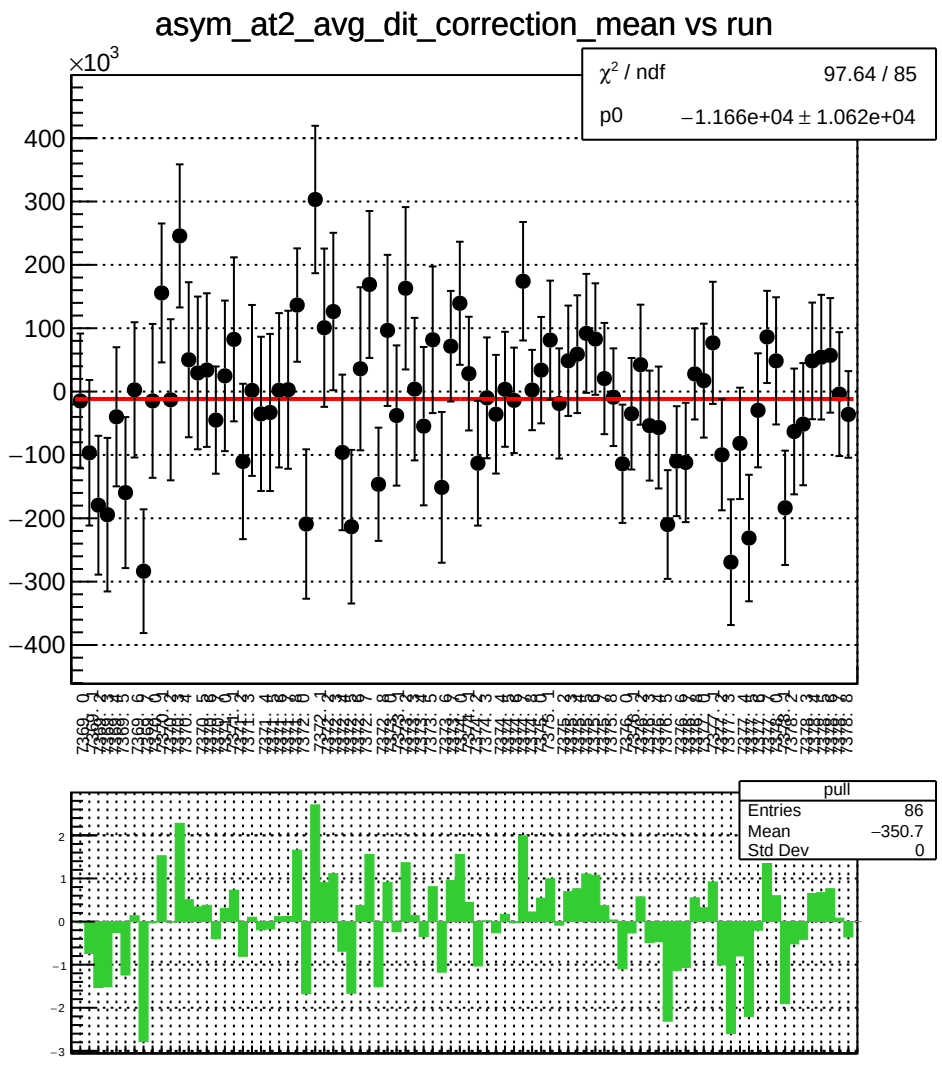

pull1D
Entries 86
Mean 0.005936
Std Dev 1.067

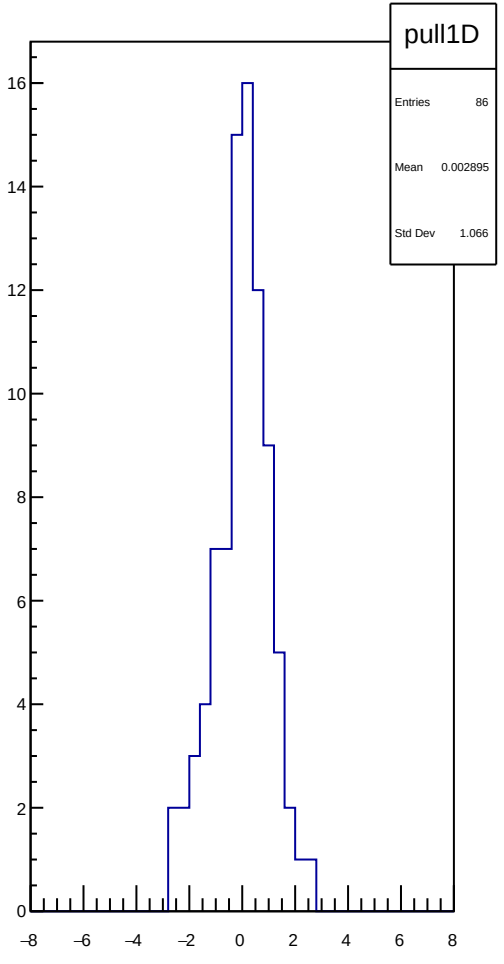

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.251e+04 / 85
p0 8748 ± 6.807
12000
11000
10000
9000
8000
7000

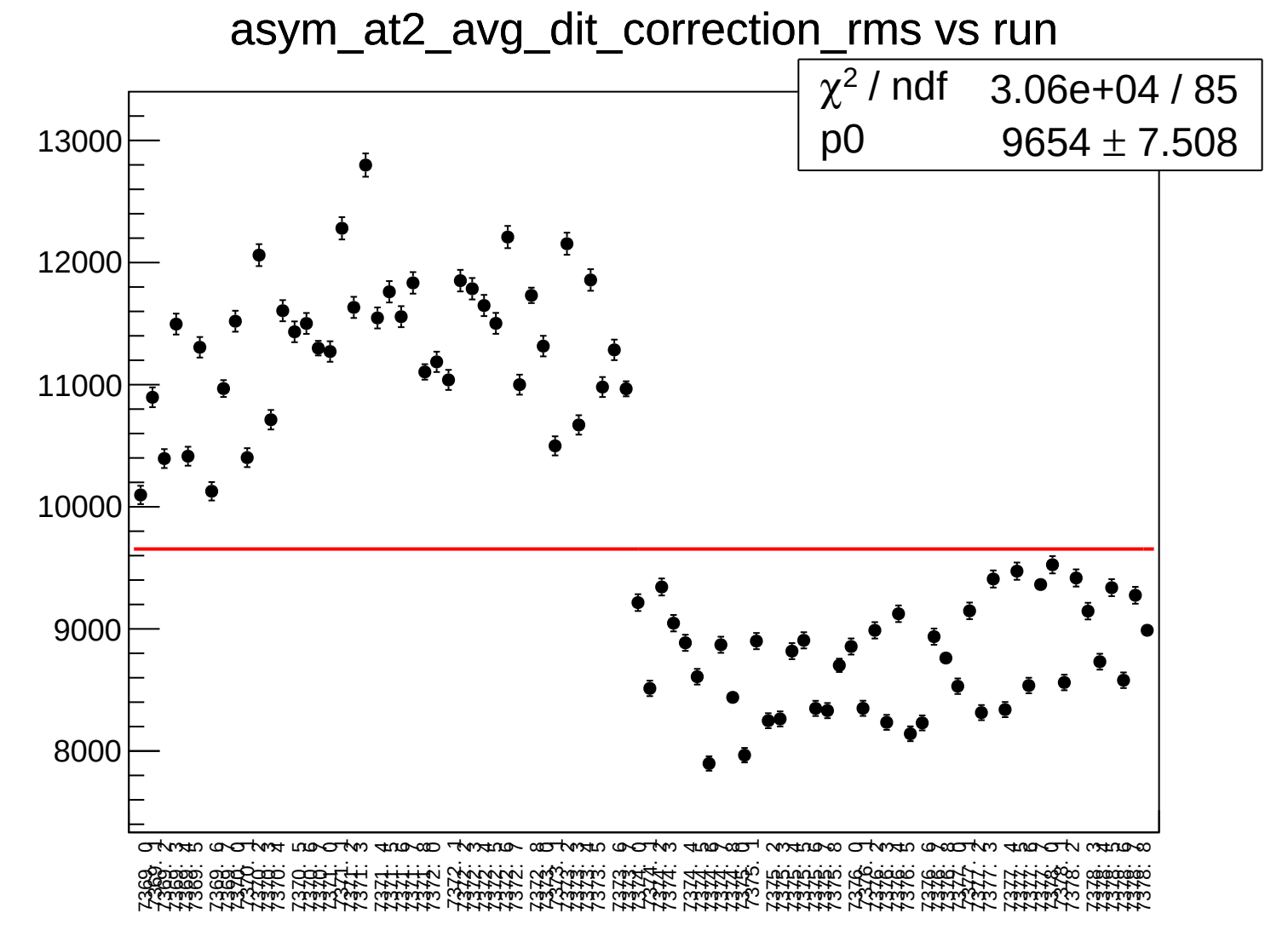

dit_asym_at2_avg_mean vs run
χ² / ndf 60.64 / 85
p0 −220.1± 2433
pull
Entries 86
Mean −52.31
Std Dev 0

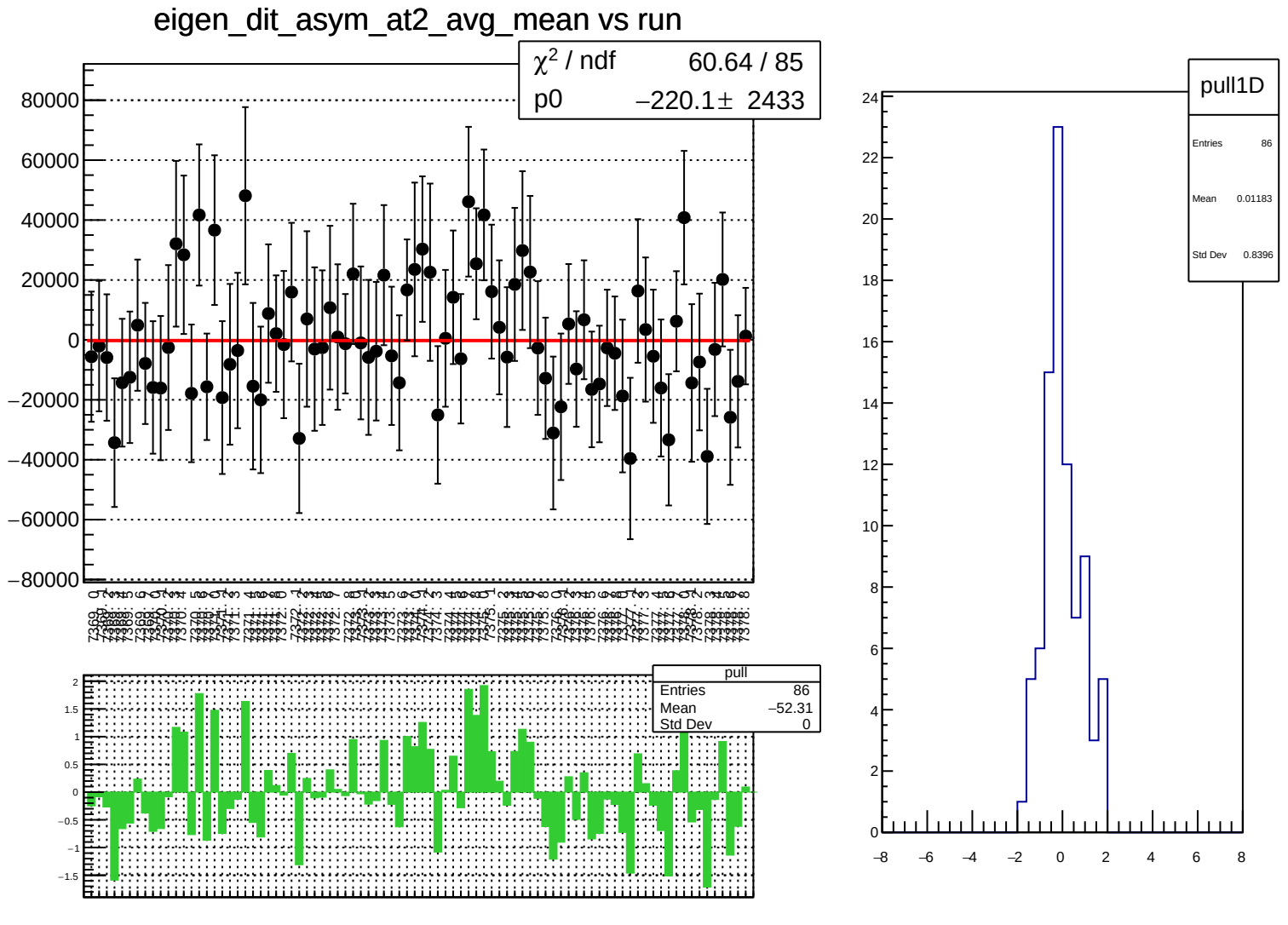

pull1D
Entries 86
Mean 0.01183
Std Dev 0.8396

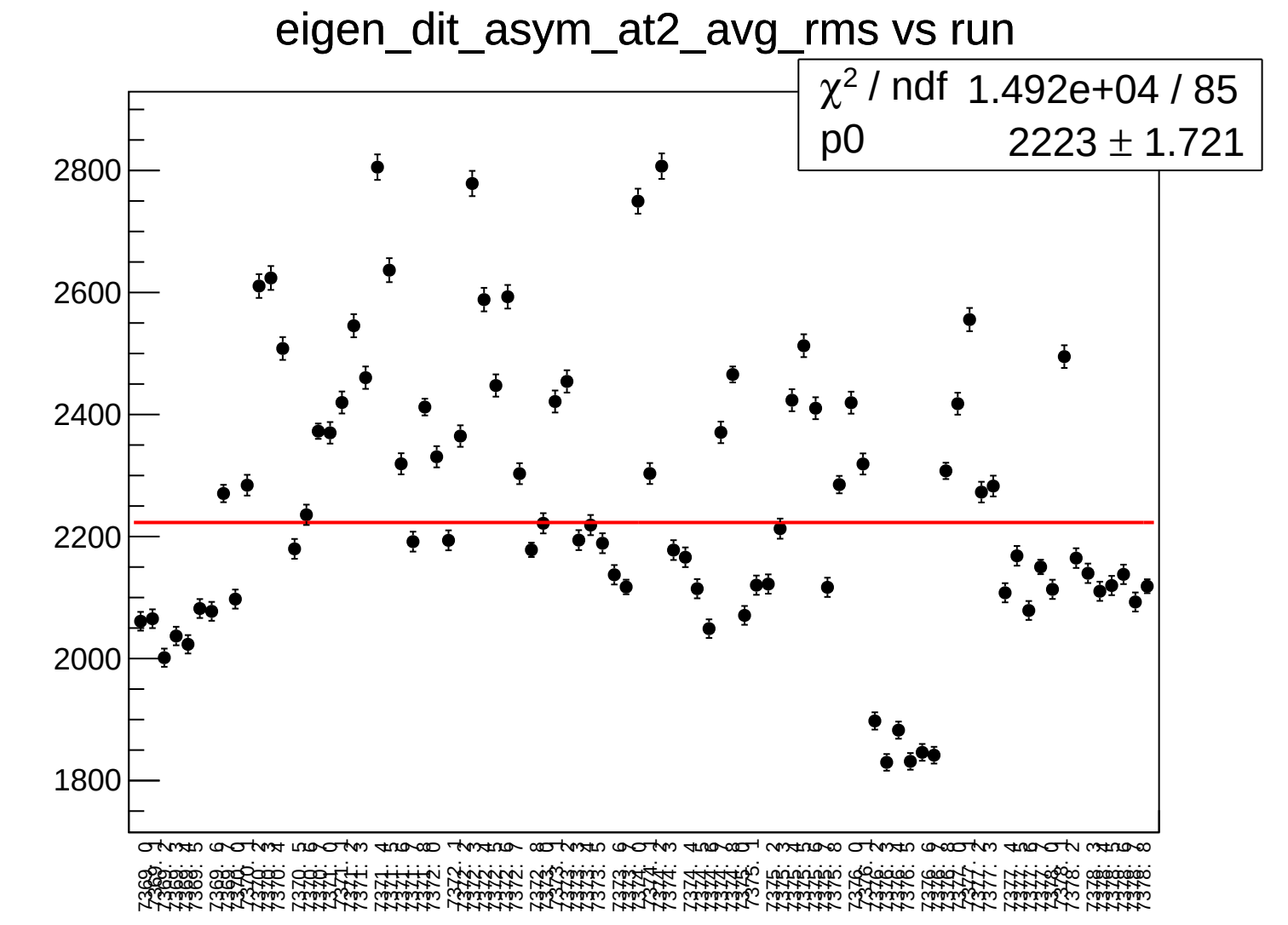

dit_asym_at2_avg_rms vs run
χ² / ndf 1.492e+04 / 85
p0 2223 ± 1.721
2800
2600
2400
2200
2000
1800

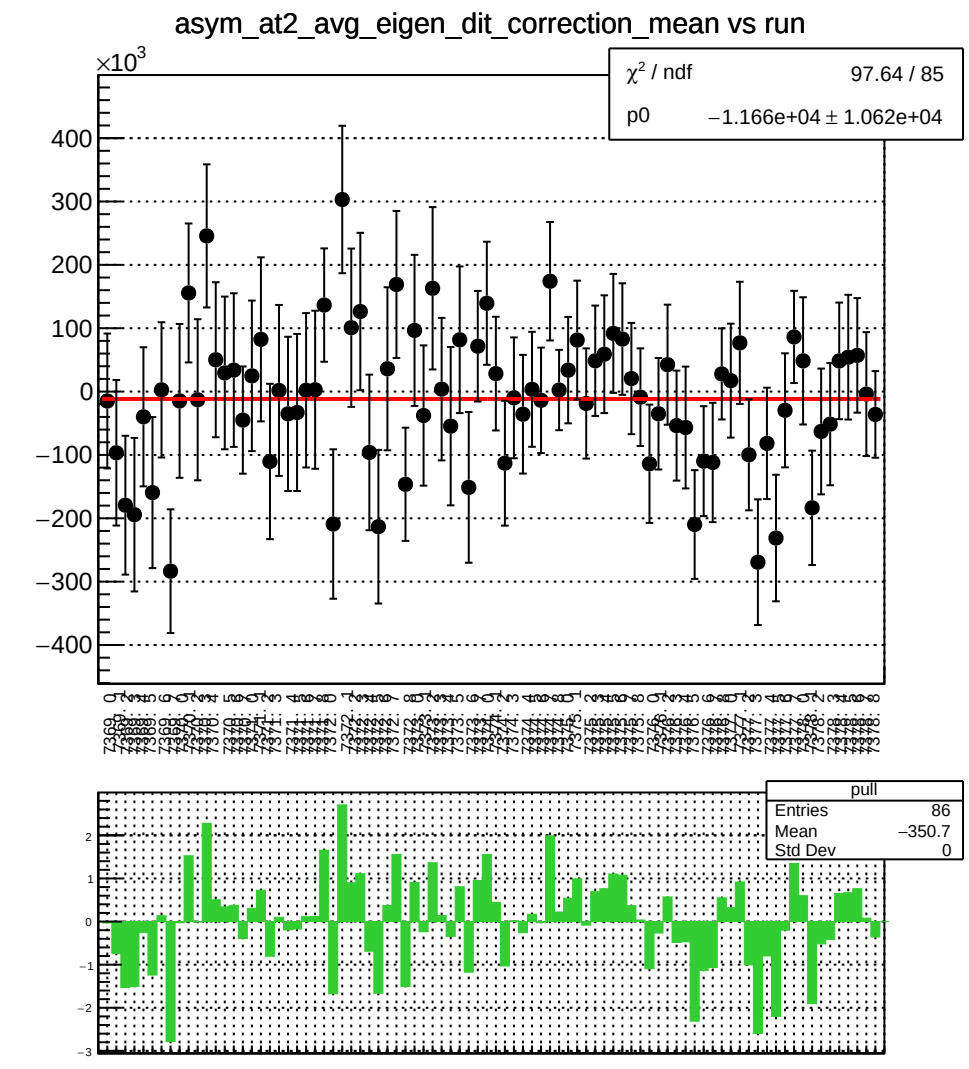

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.64 / 85
p0 −1.166e+04 ± 1.062e+04
pull
Entries 86
Mean −350.7
Std Dev 0

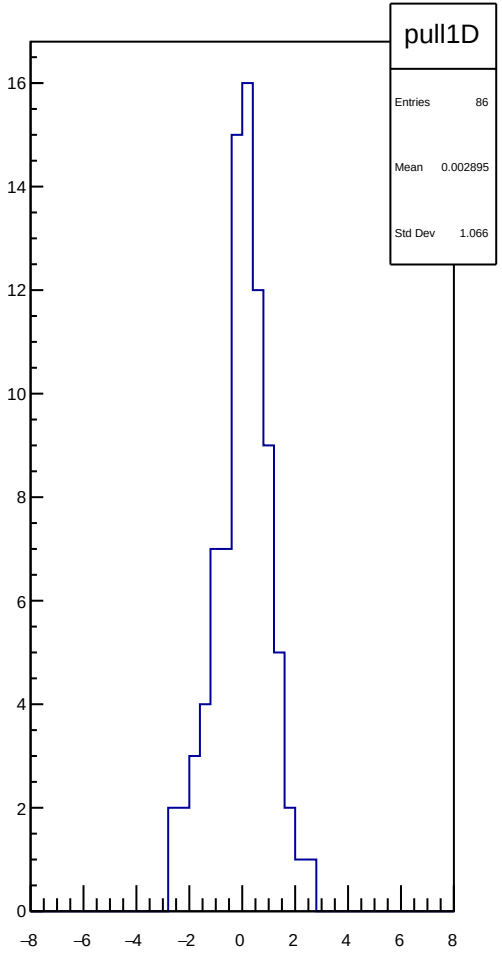

pull1D
Entries 86
Mean 0.002895
Std Dev 1.066

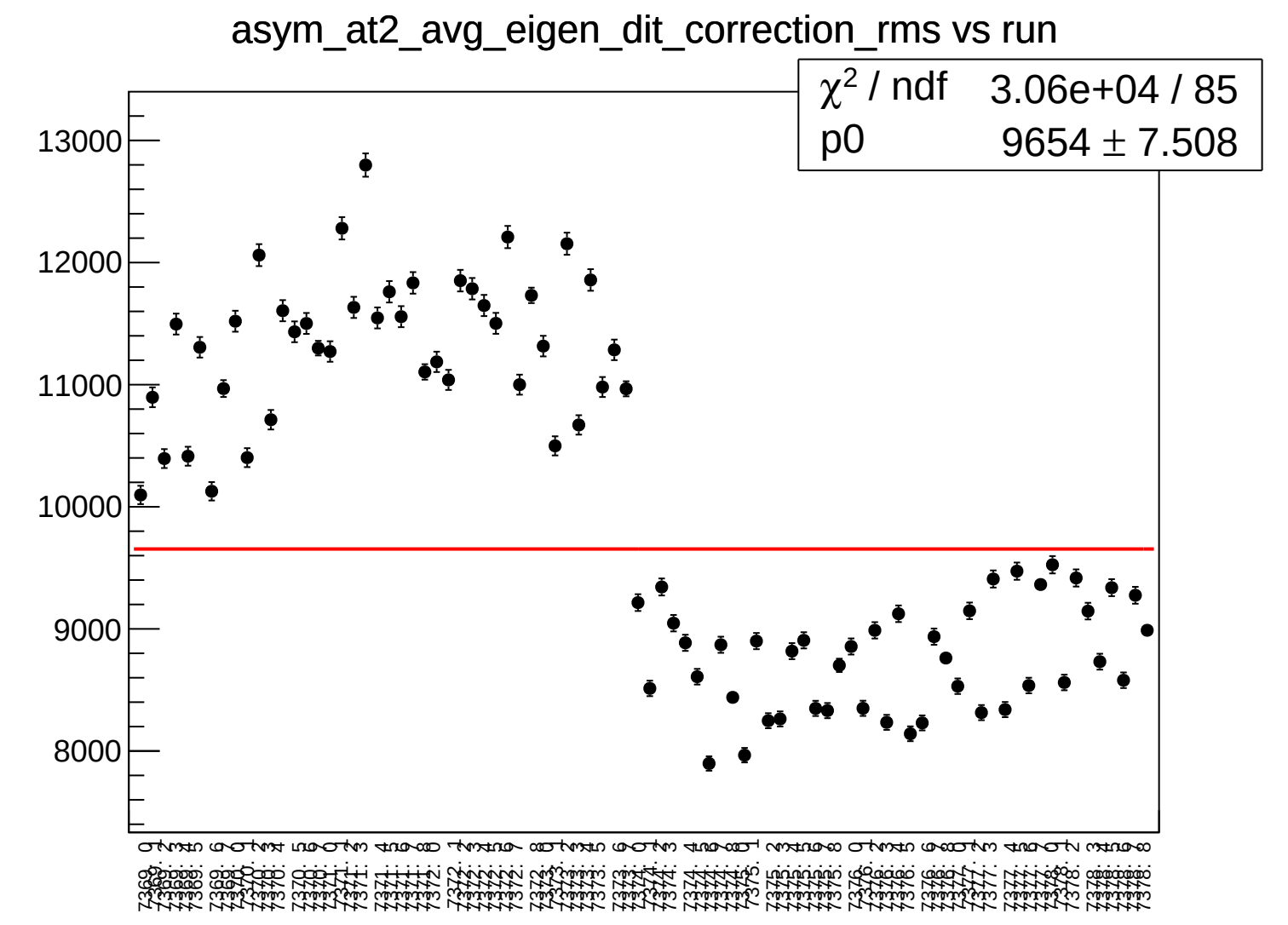

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 3.06e+04 / 85
p0 9654 ± 7.508
13000
12000
11000
10000
9000
8000

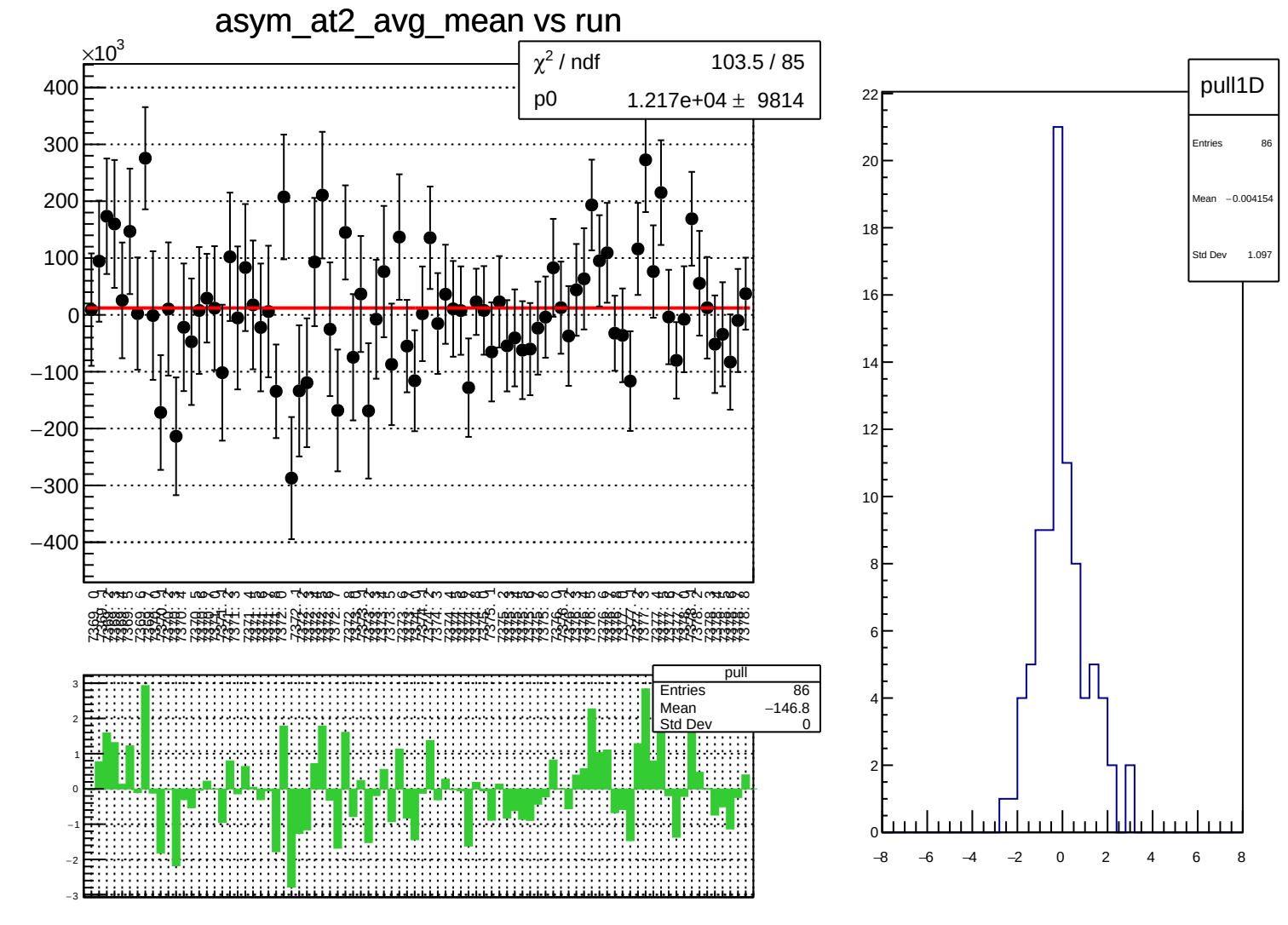

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 60.64 / 85
p0 −220.1± 2433
pull
Entries 86
Mean −52.31
Std Dev 0
pull1D
Entries 86
Mean 0.01183
Std Dev 0.8396

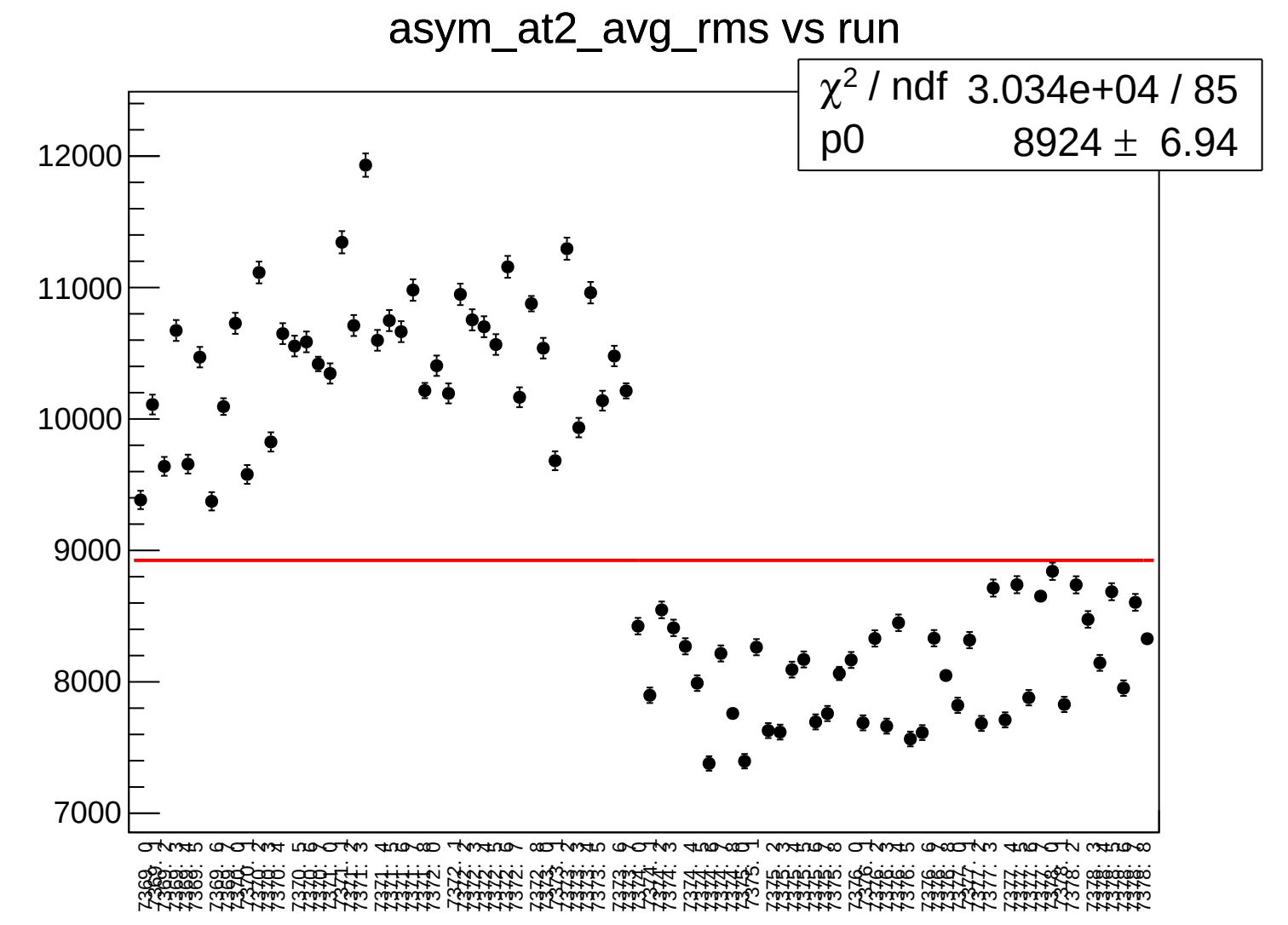

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1.492e+04 / 85
p0 2223 ± 1.721
2800
2600
2400
2200
2000
1800

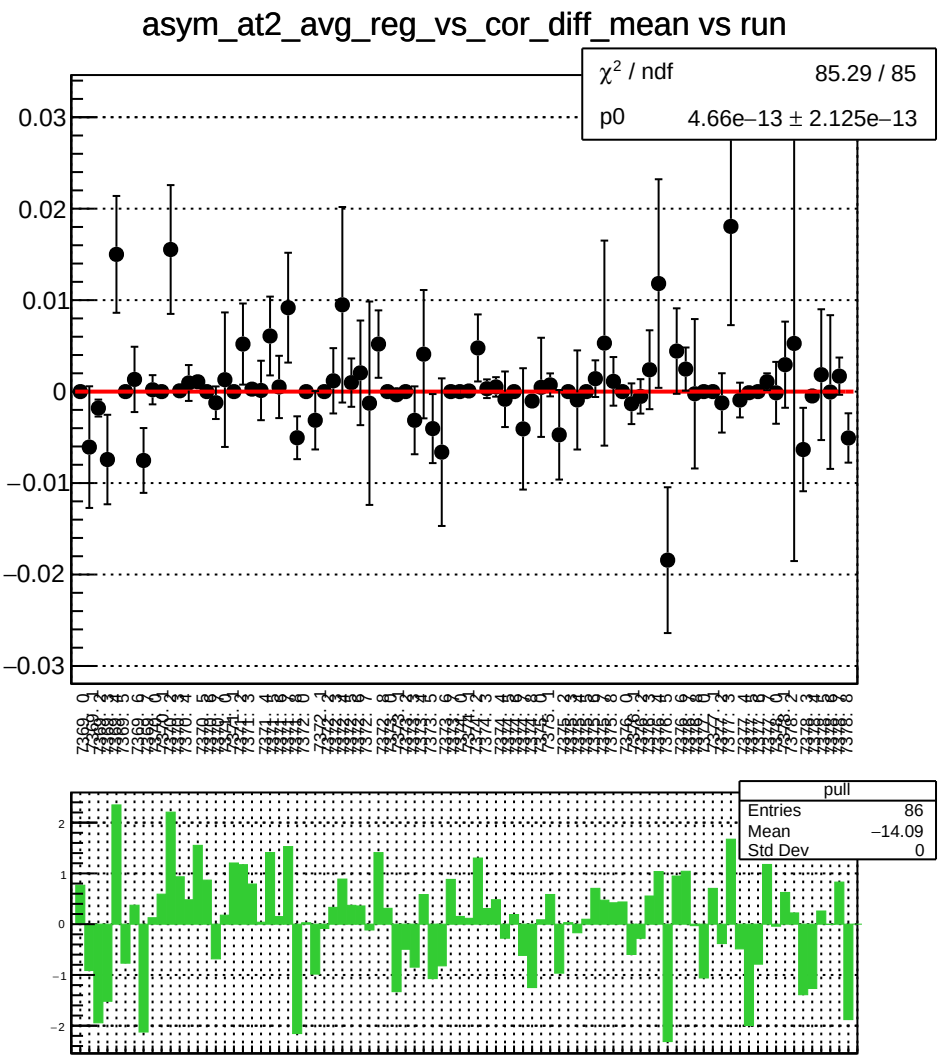

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.64 / 85
p0 −1.166e+04 ± 1.062e+04
pull
Entries 86
Mean −350.7
Std Dev 0

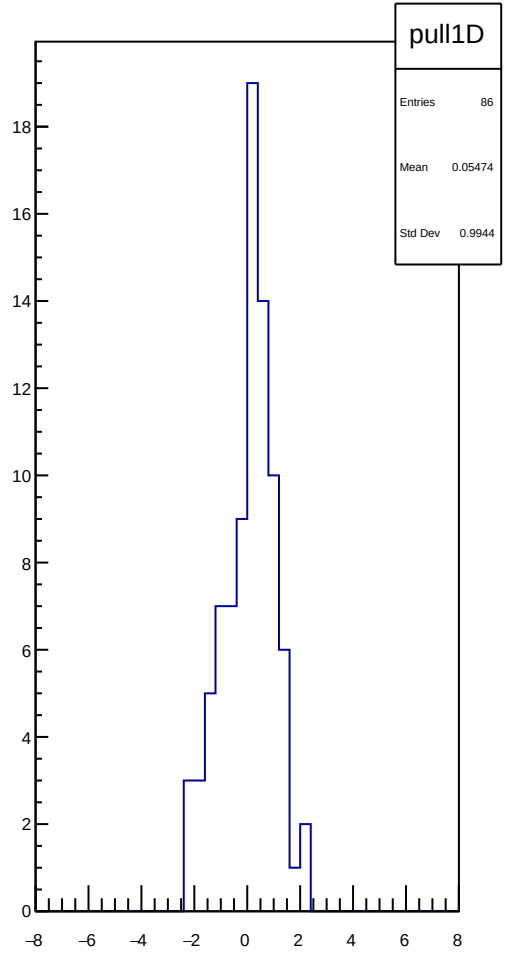

pull1D
Entries 86
Mean 0.002895
Std Dev 1.066

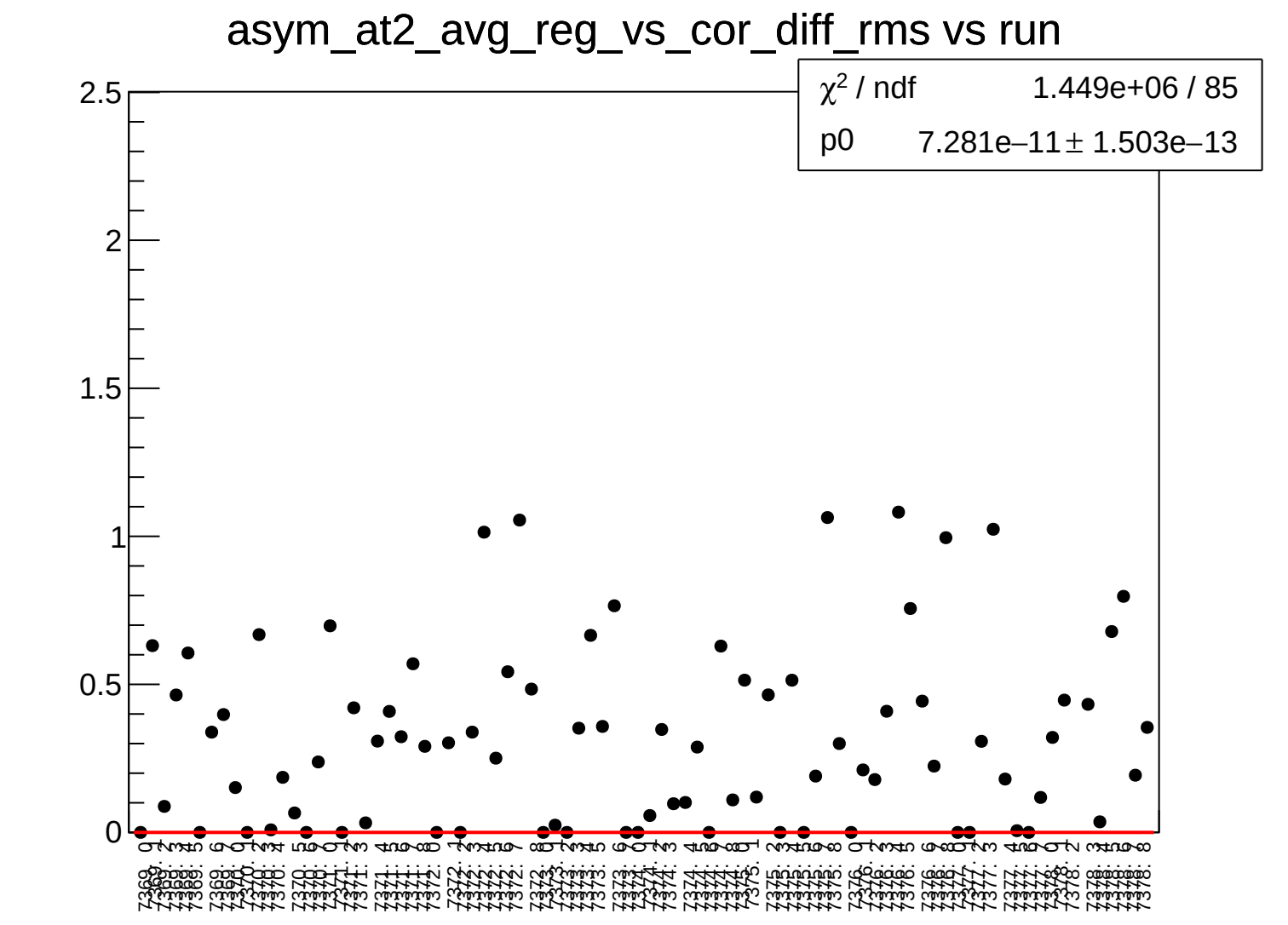

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.06e+04 / 85
p0 9654 ± 7.508
13000
12000
11000
10000
9000
8000

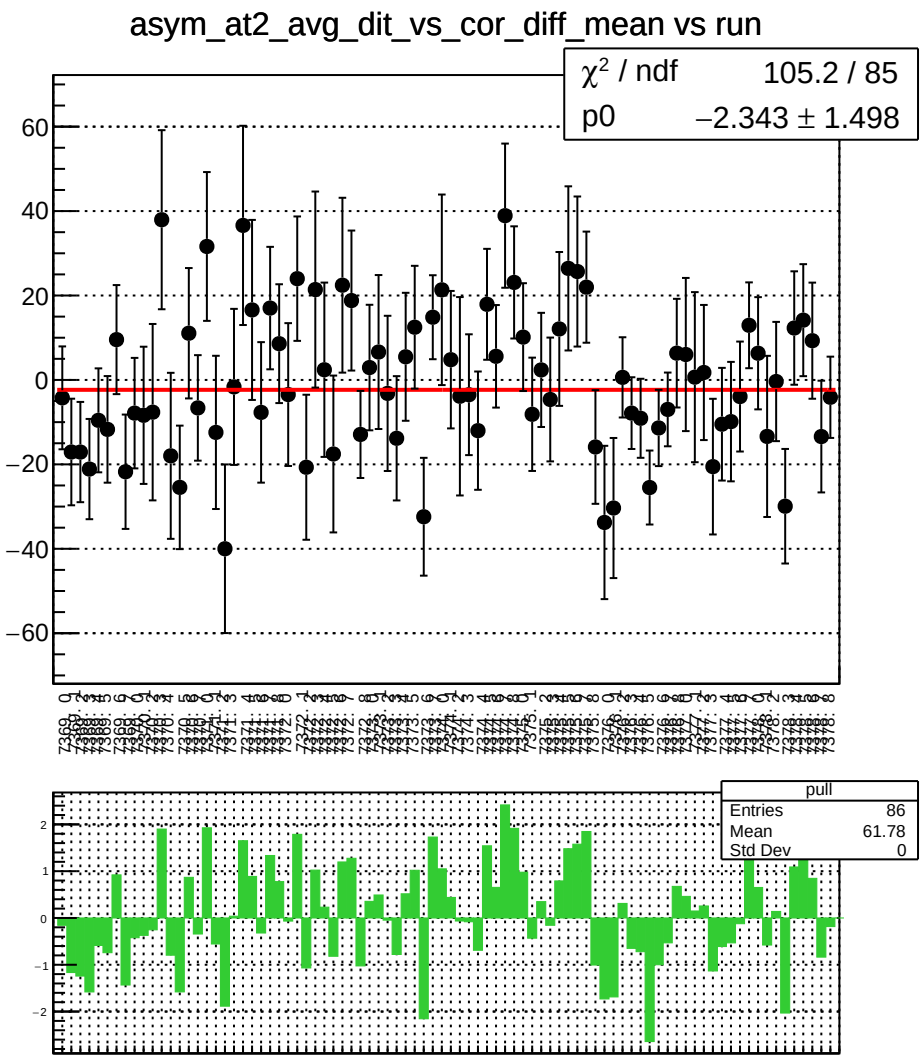

asym_at2_avg_mean vs run
×10^3
χ² / ndf 103.5 / 85
p0 1.217e+04 ± 9814
pull
Entries 86
Mean −146.8
Std Dev 0
pull1D
Entries 86
Mean −0.004154
Std Dev 1.097

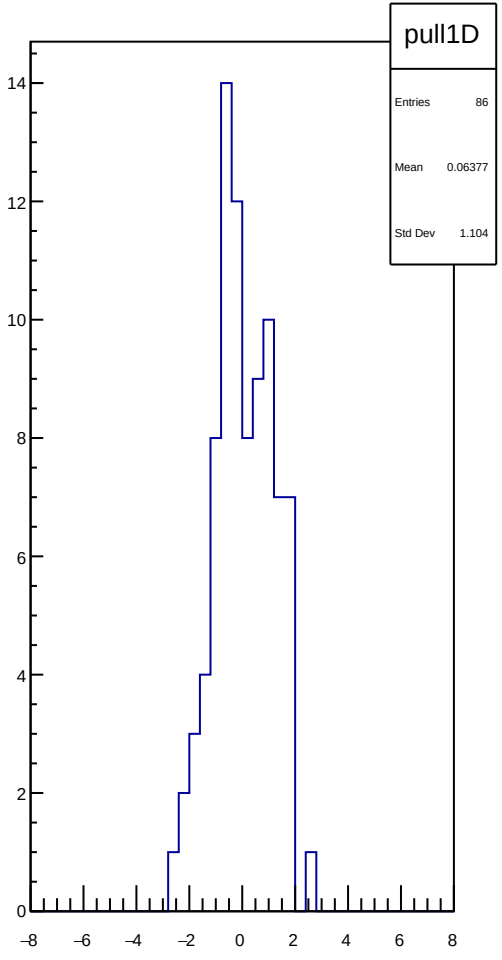

asym_at2_avg_rms vs run
χ² / ndf 3.034e+04 / 85
p0 8924 ± 6.94
12000
11000
10000
9000
8000
7000

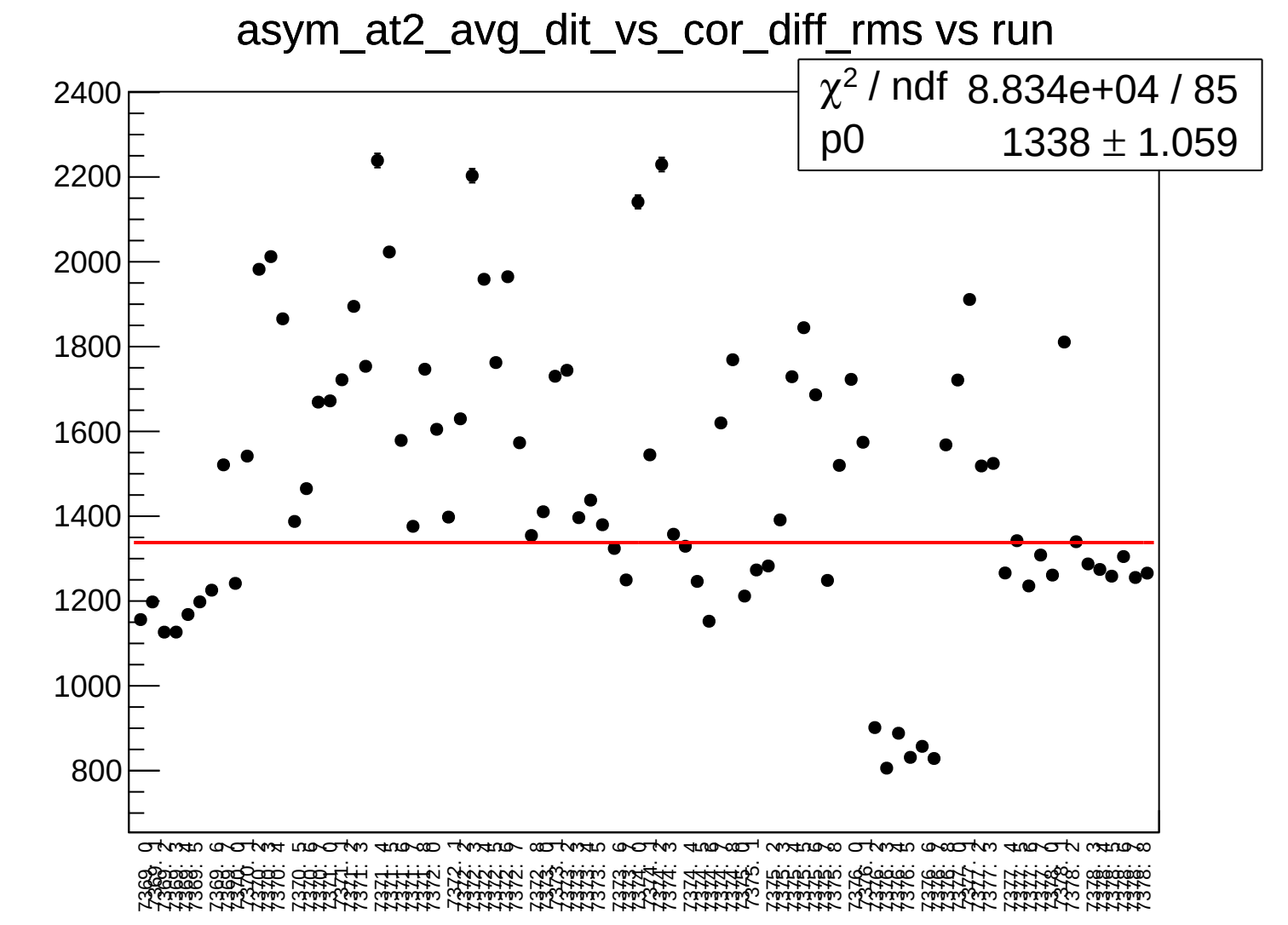

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.29 / 85
p0 4.66e−13 ± 2.125e−13
pull
Entries 86
Mean −14.09
Std Dev 0

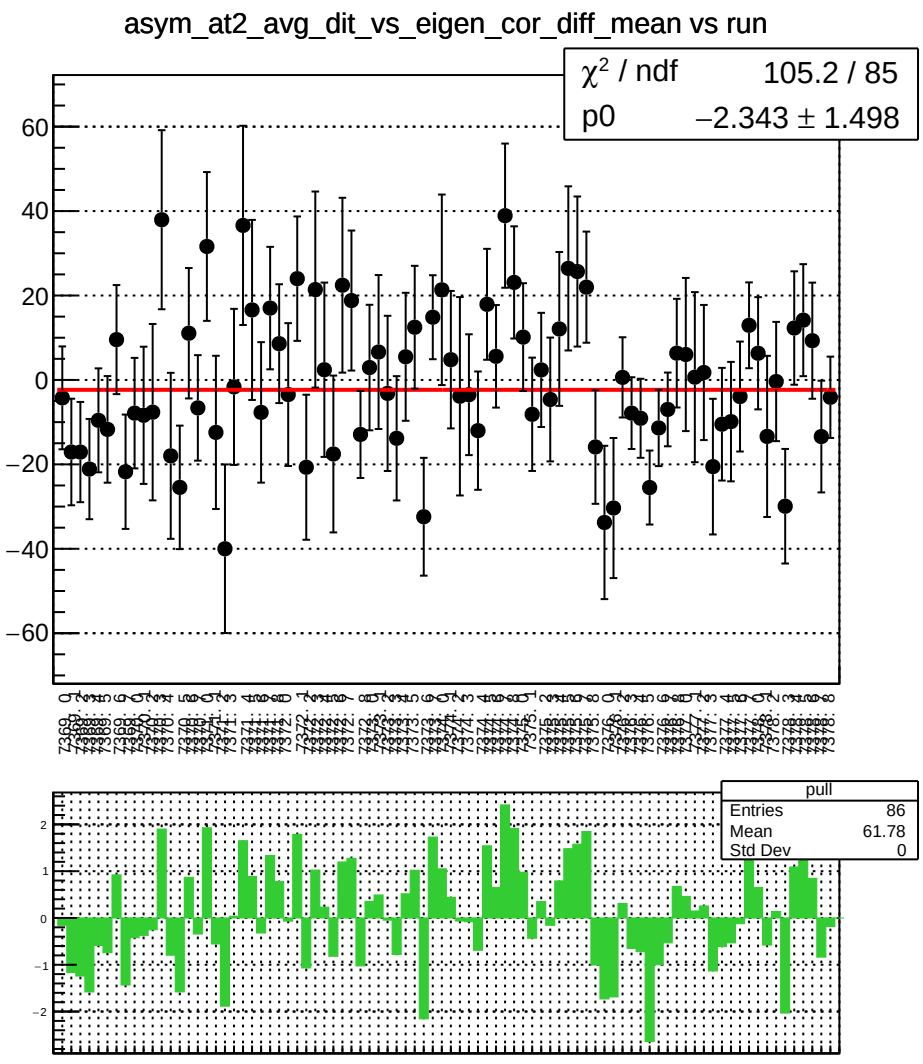

pull1D
Entries 86
Mean 0.05474
Std Dev 0.9944

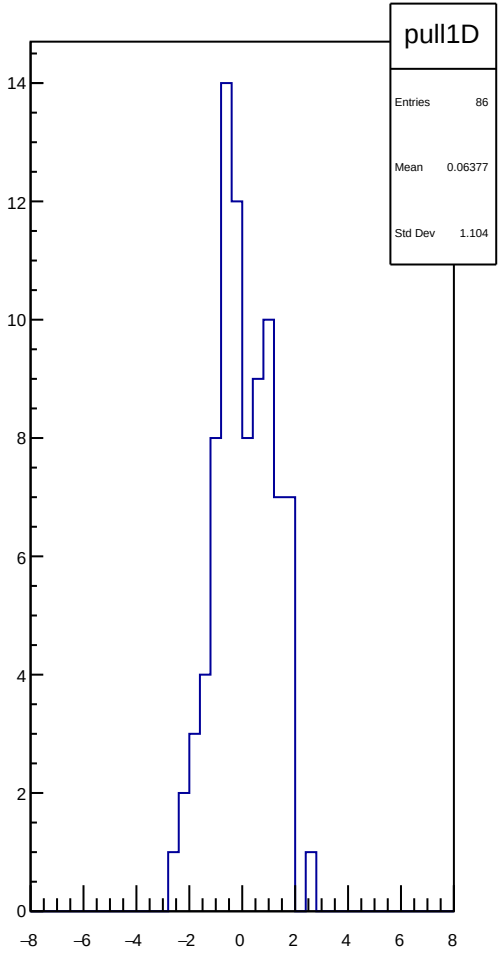

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.449e+06 / 85
p0 7.281e−11 ± 1.503e−13
2.5
2
1.5
1
0.5
0

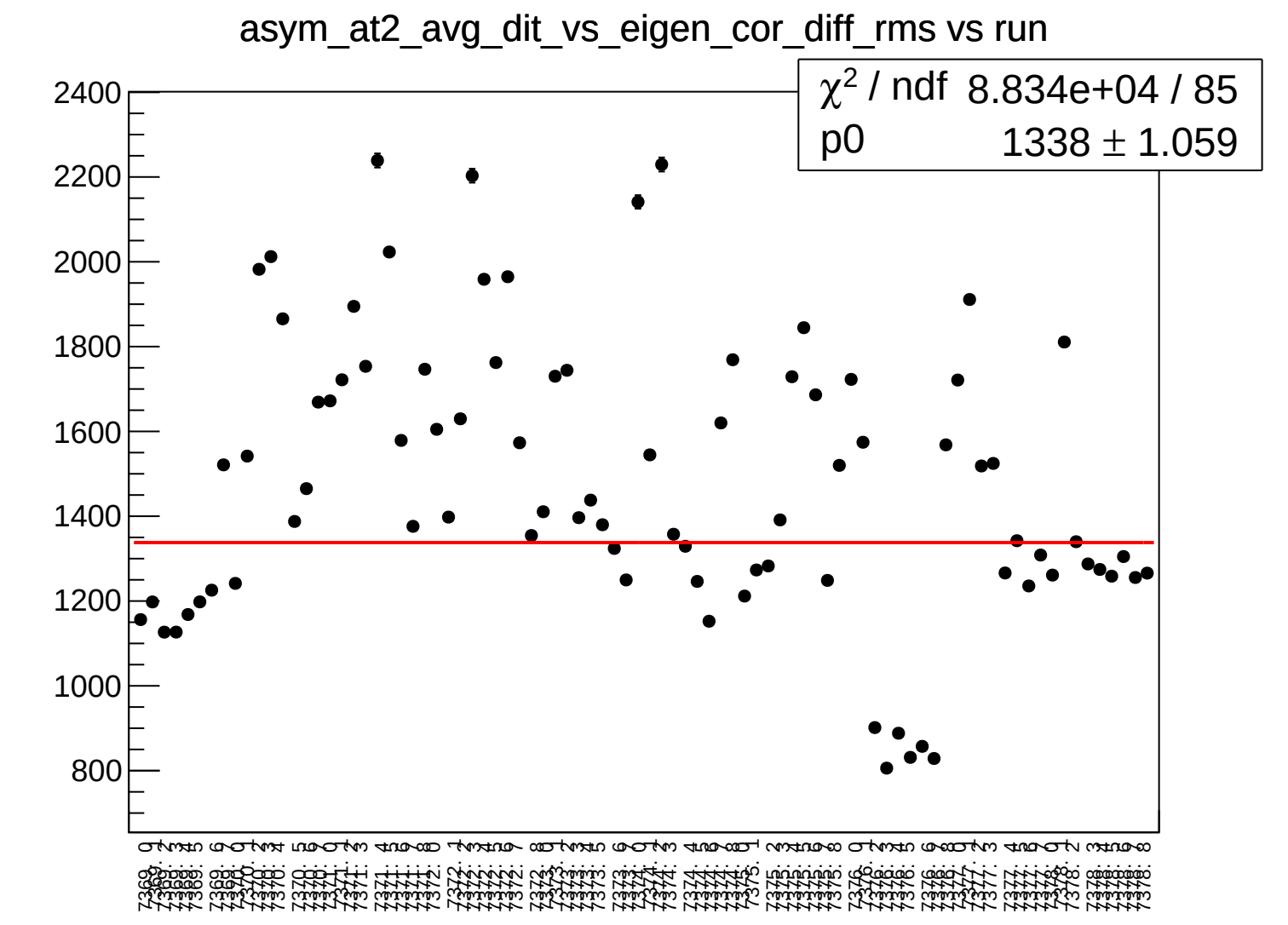

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 85
p0 −2.343 ± 1.498
pull
Entries 86
Mean 61.78
Std Dev 0

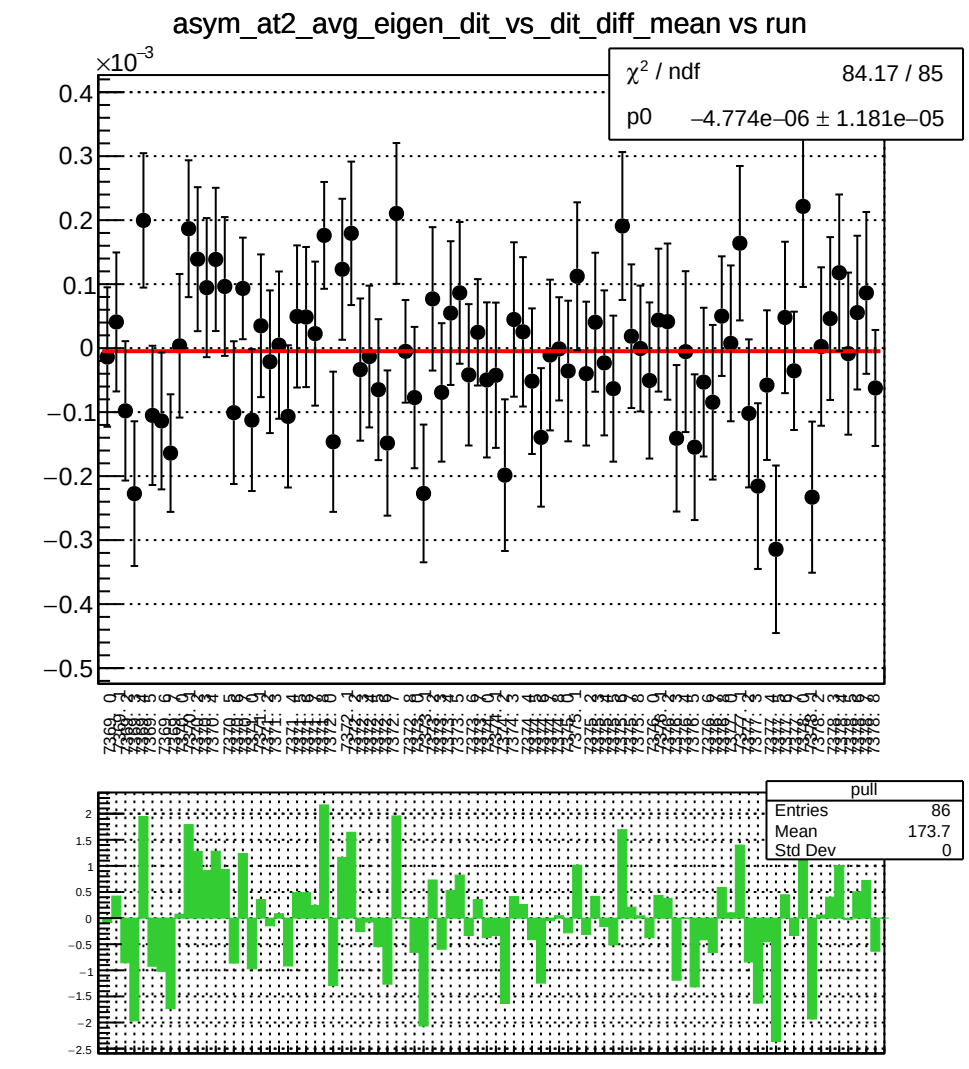

pull1D
Entries 86
Mean 0.06377
Std Dev 1.104

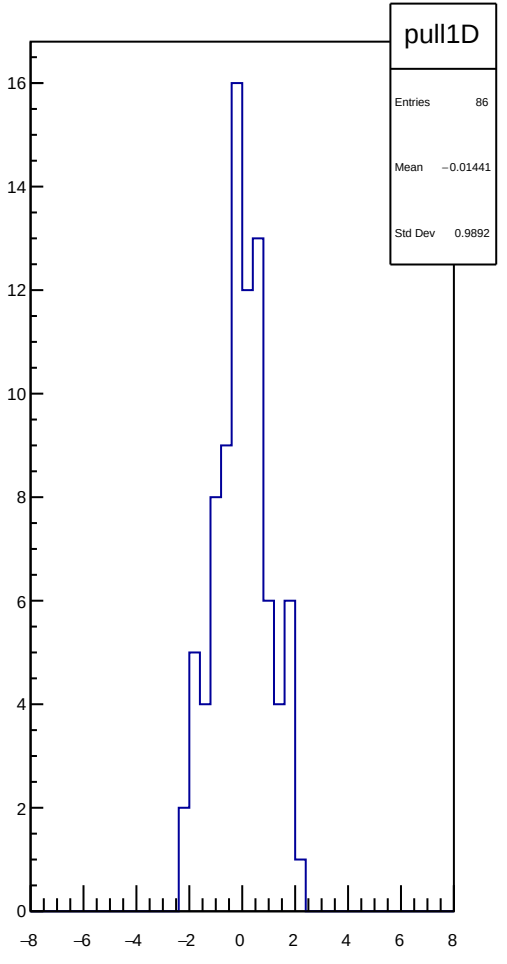

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.834e+04 / 85
p0 1338 ± 1.059
2400
2200
2000
1800
1600
1400
1200
1000
800

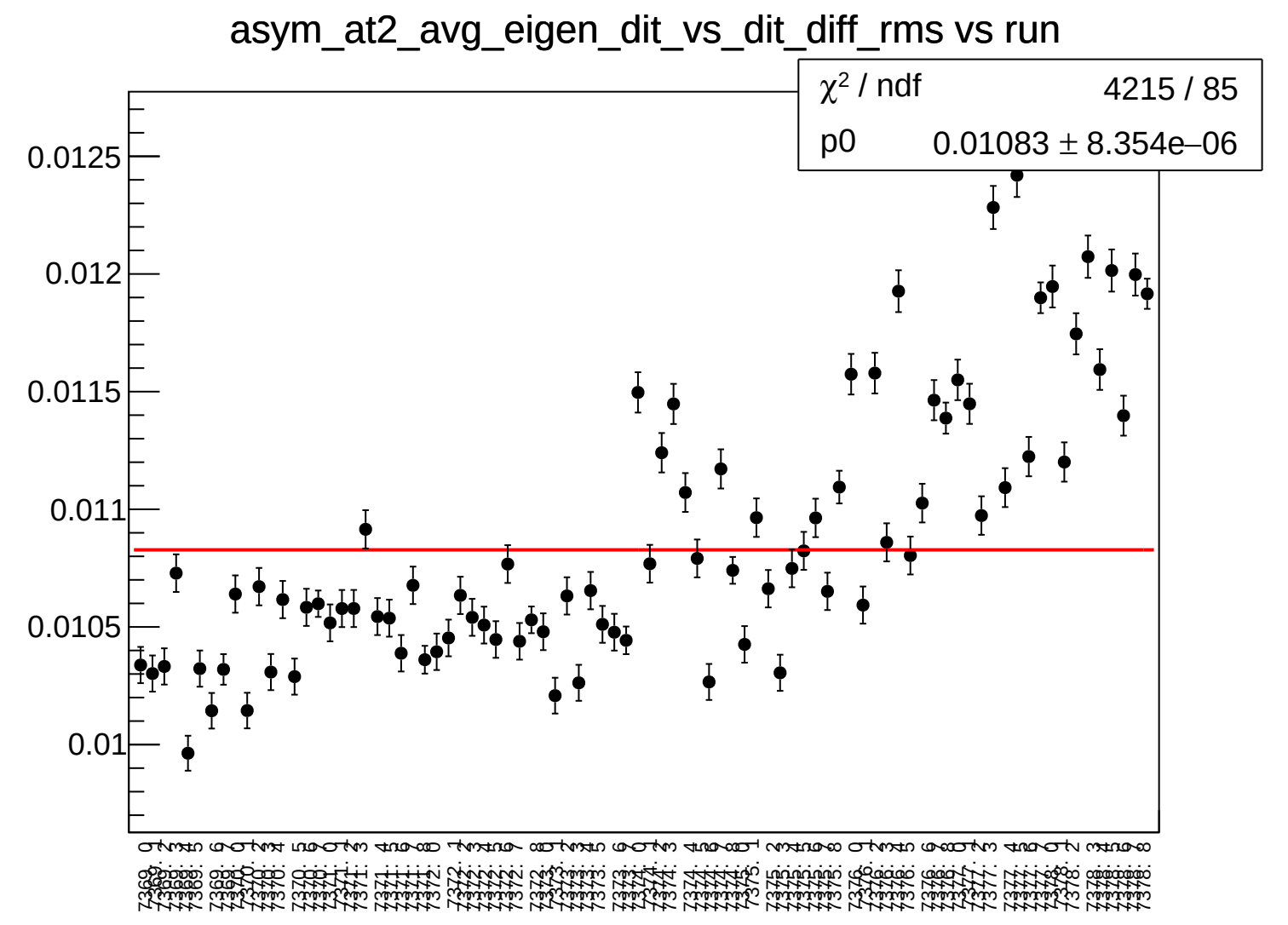

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 85
p0 −2.343 ± 1.498
pull
Entries 86
Mean 61.78
Std Dev 0

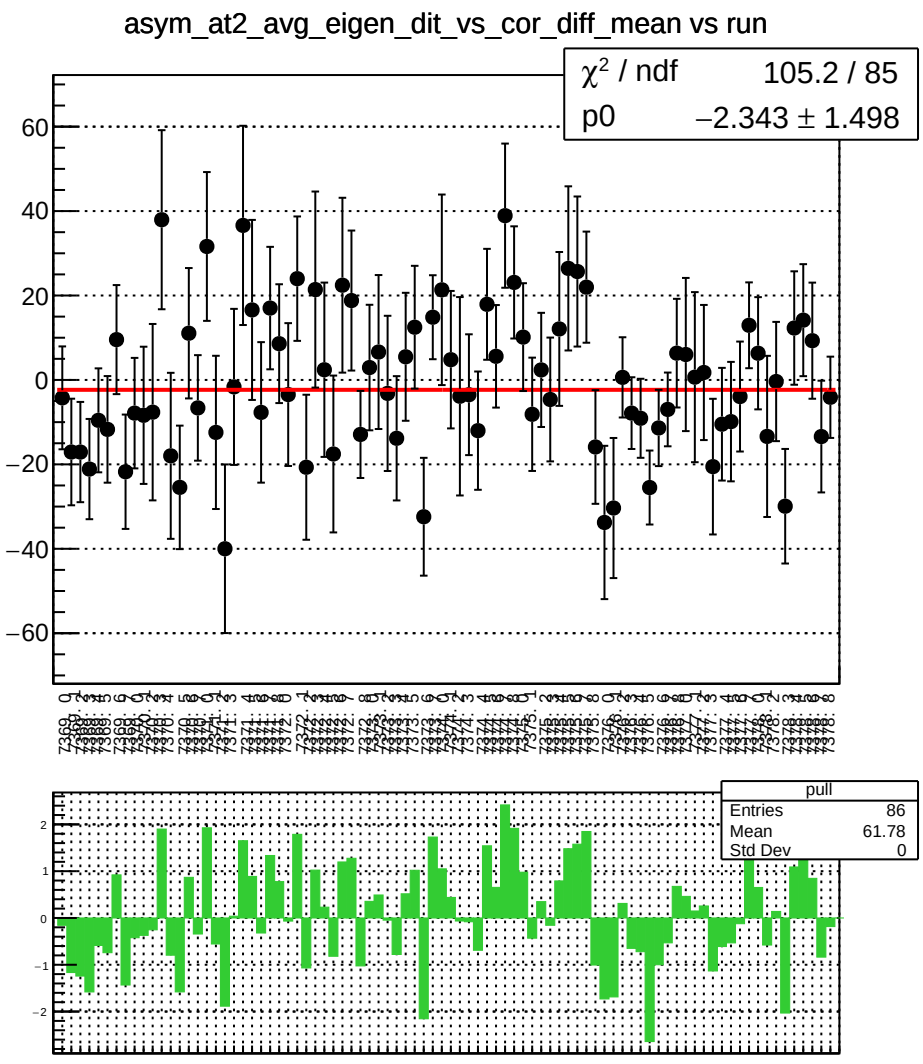

pull1D
Entries 86
Mean 0.06377
Std Dev 1.104

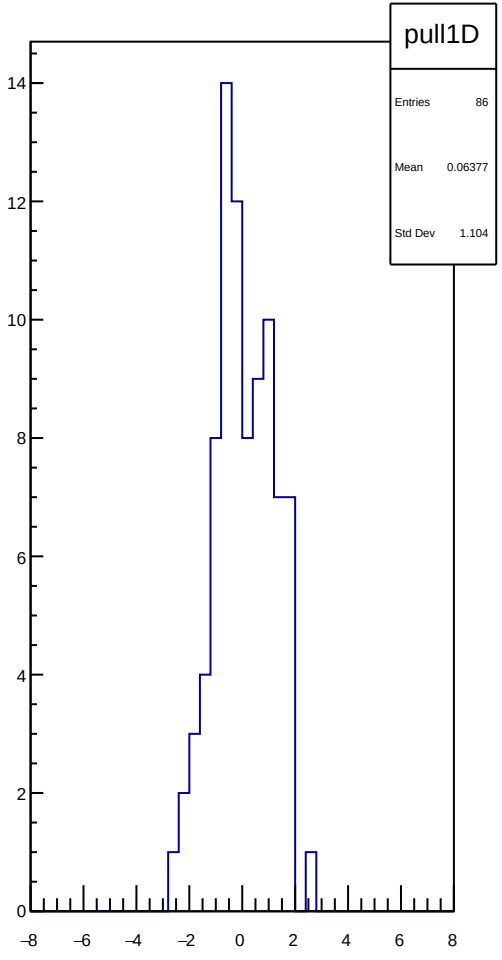

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.834e+04 / 85
p0 1338 ± 1.059
2400
2200
2000
1800
1600
1400
1200
1000
800

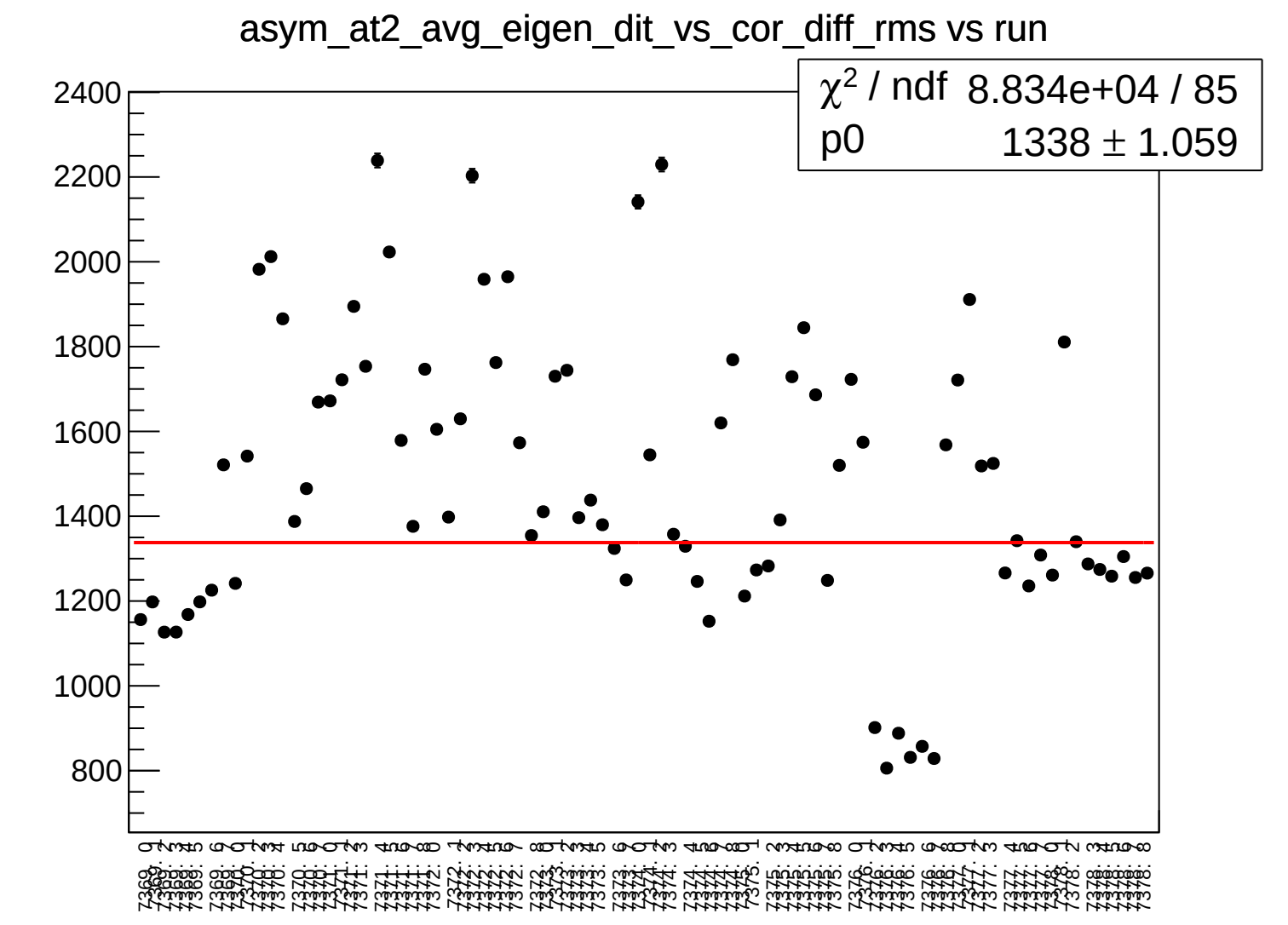

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.17 / 85
p0 −4.774e−06 ± 1.181e−05
pull
Entries 86
Mean 173.7
Std Dev 0

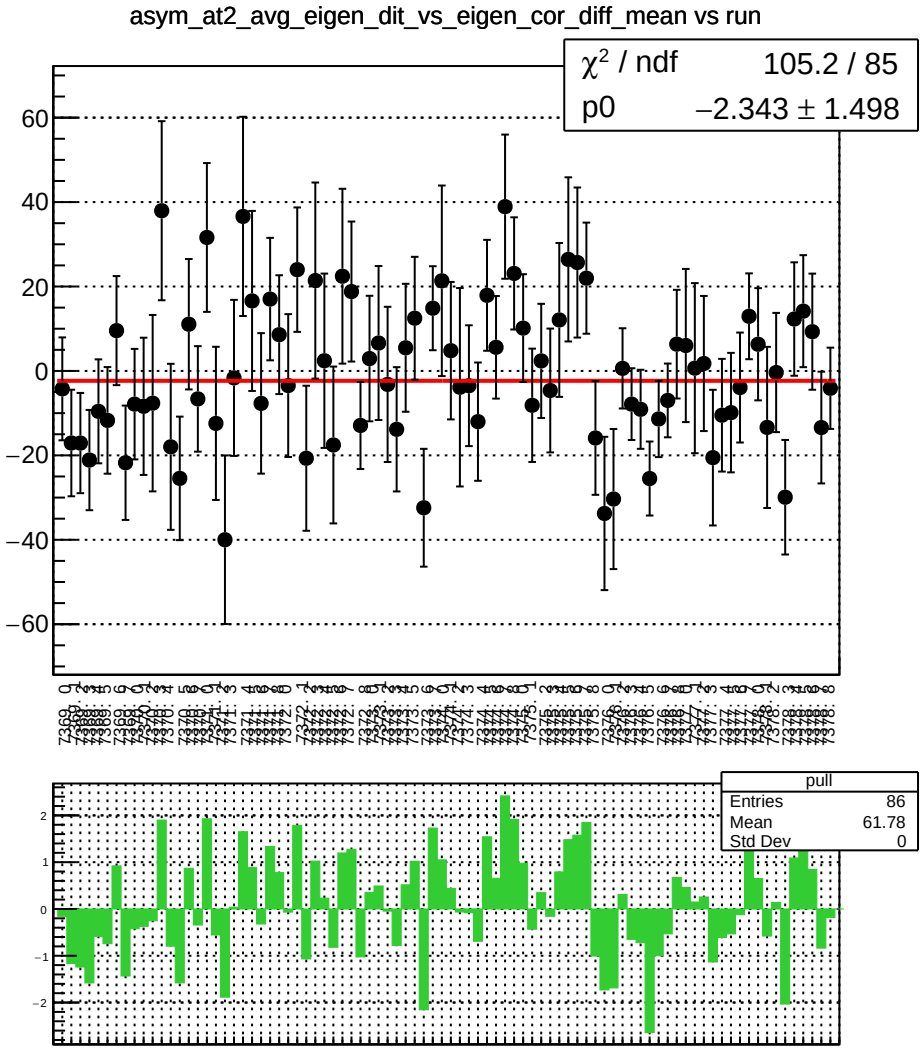

pull1D
Entries 86
Mean −0.01441
Std Dev 0.9892

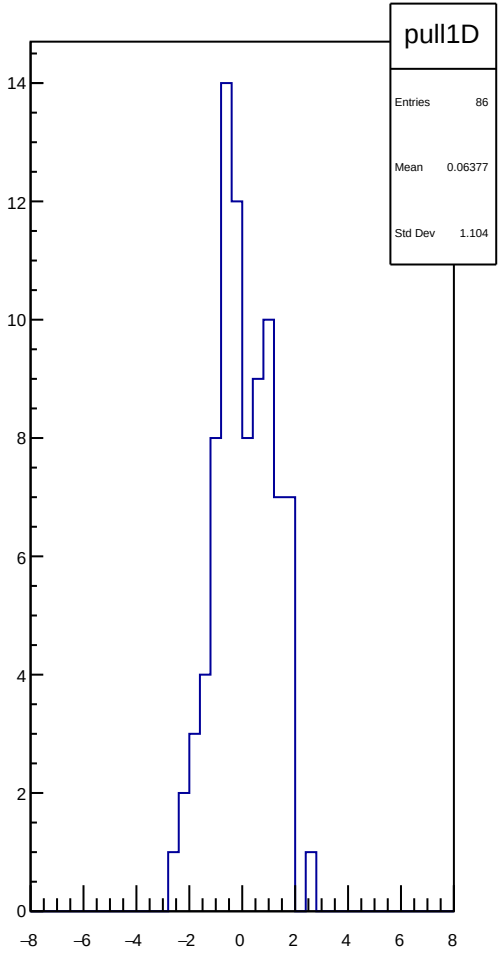

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4215 / 85
p0 0.01083 ± 8.354e–06
0.0125
0.012
0.0115
0.011
0.0105
0.01

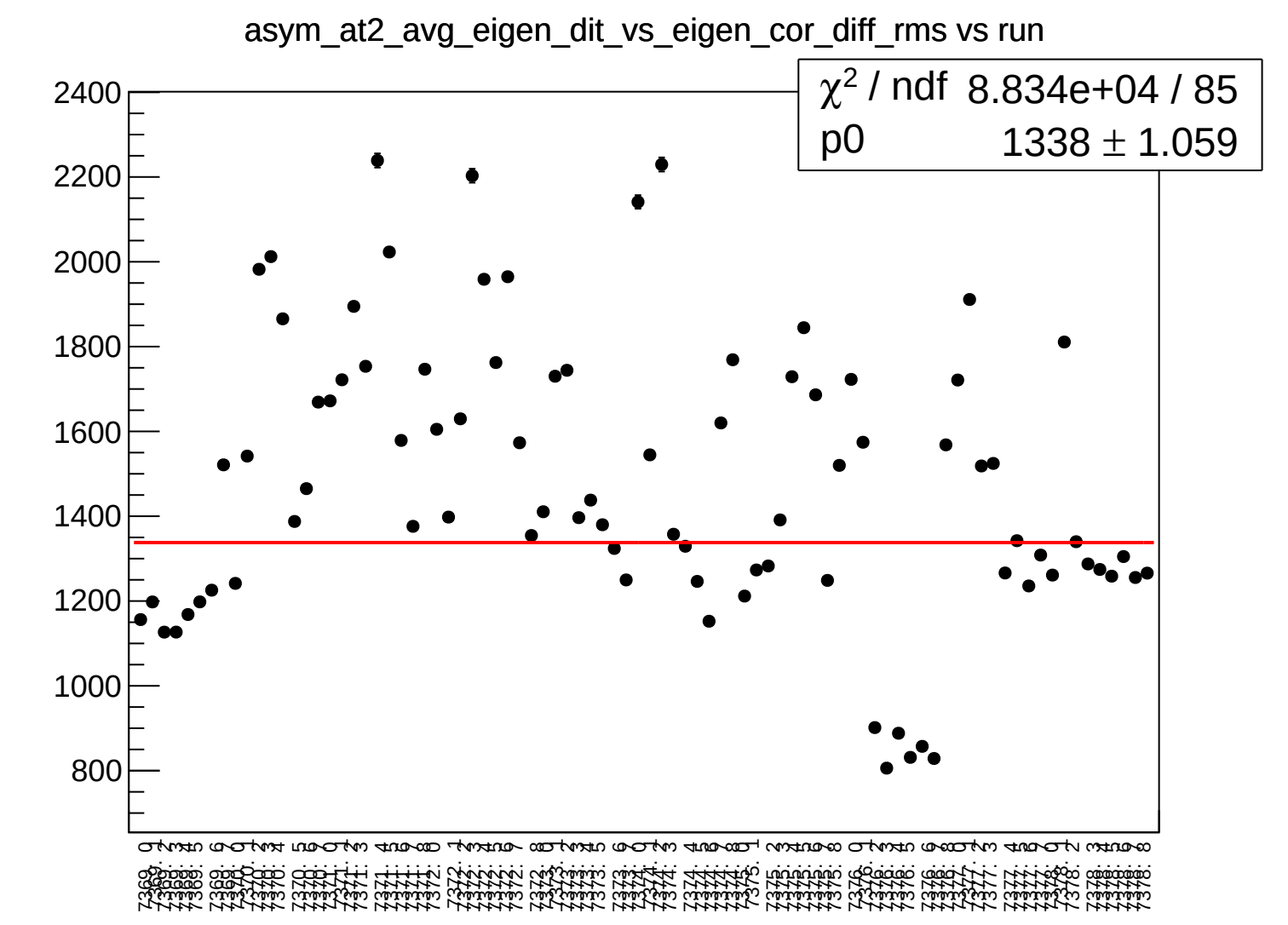

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 85
p0 −2.343 ± 1.498
pull
Entries 86
Mean 61.78
Std Dev 0

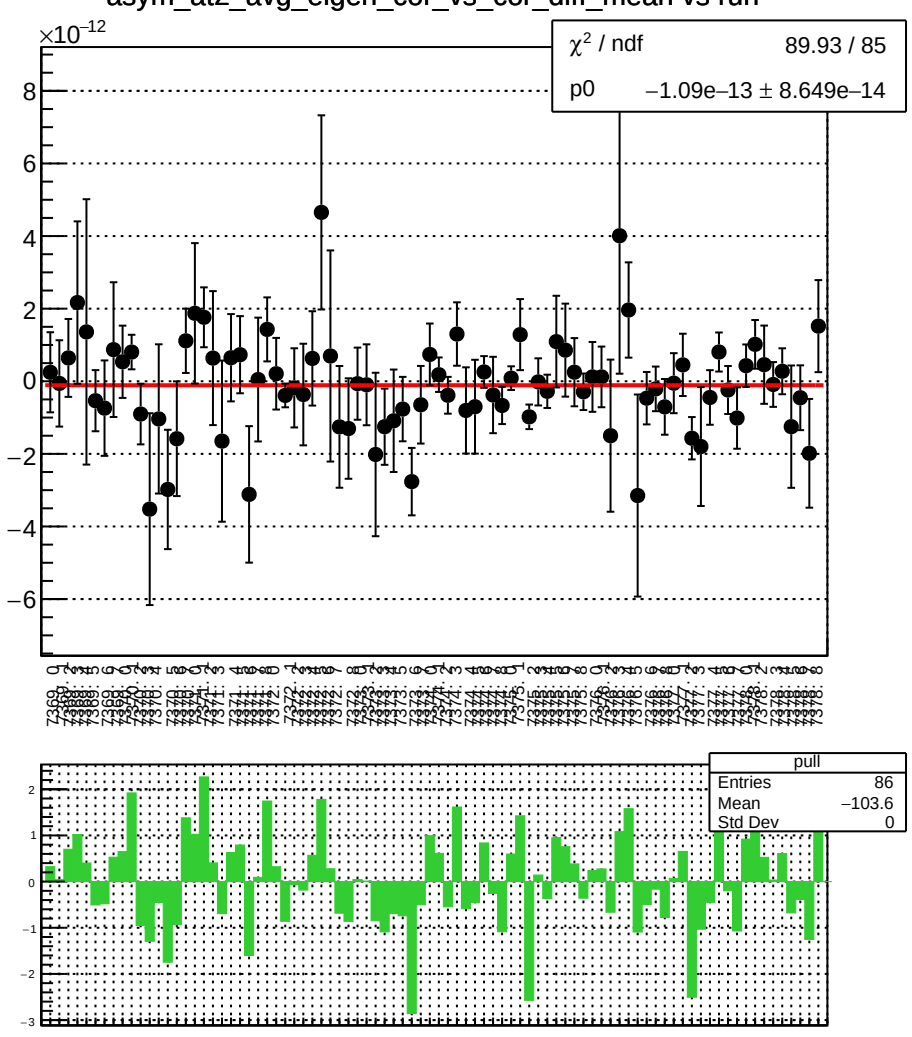

pull1D
Entries 86
Mean 0.06377
Std Dev 1.104

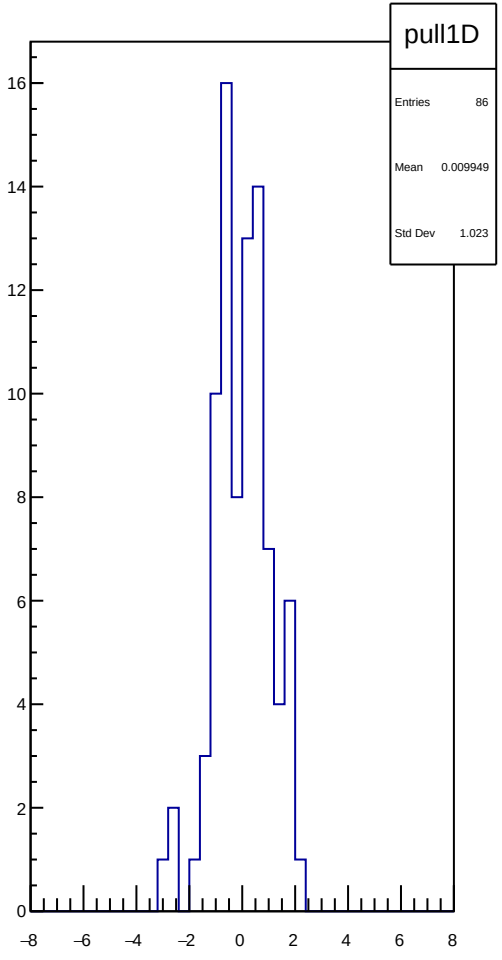

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.834e+04 / 85
p0 1338 ± 1.059
2400
2200
2000
1800
1600
1400
1200
1000
800

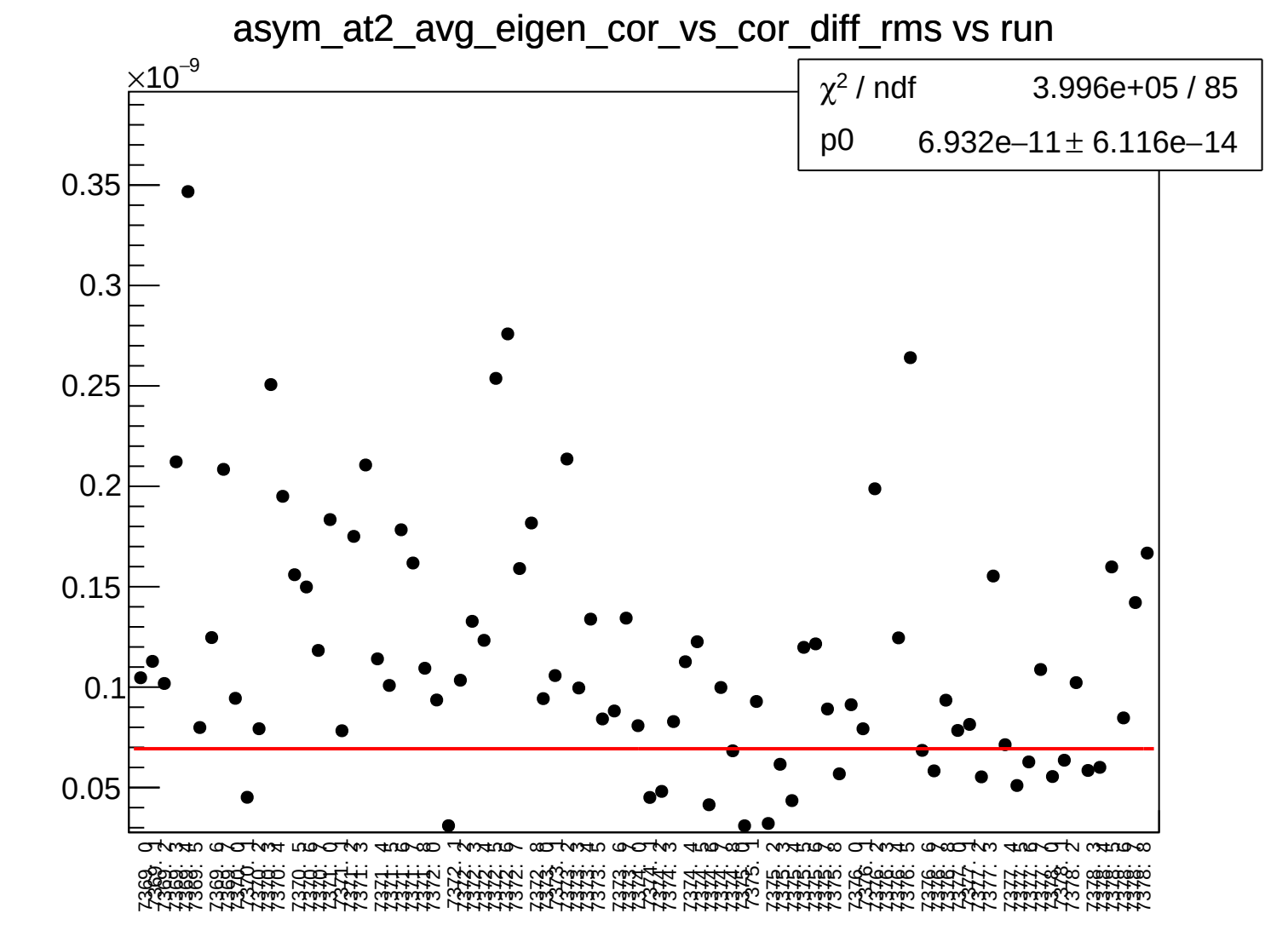

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 85
p0 −2.343 ± 1.498
pull
Entries 86
Mean 61.78
Std Dev 0

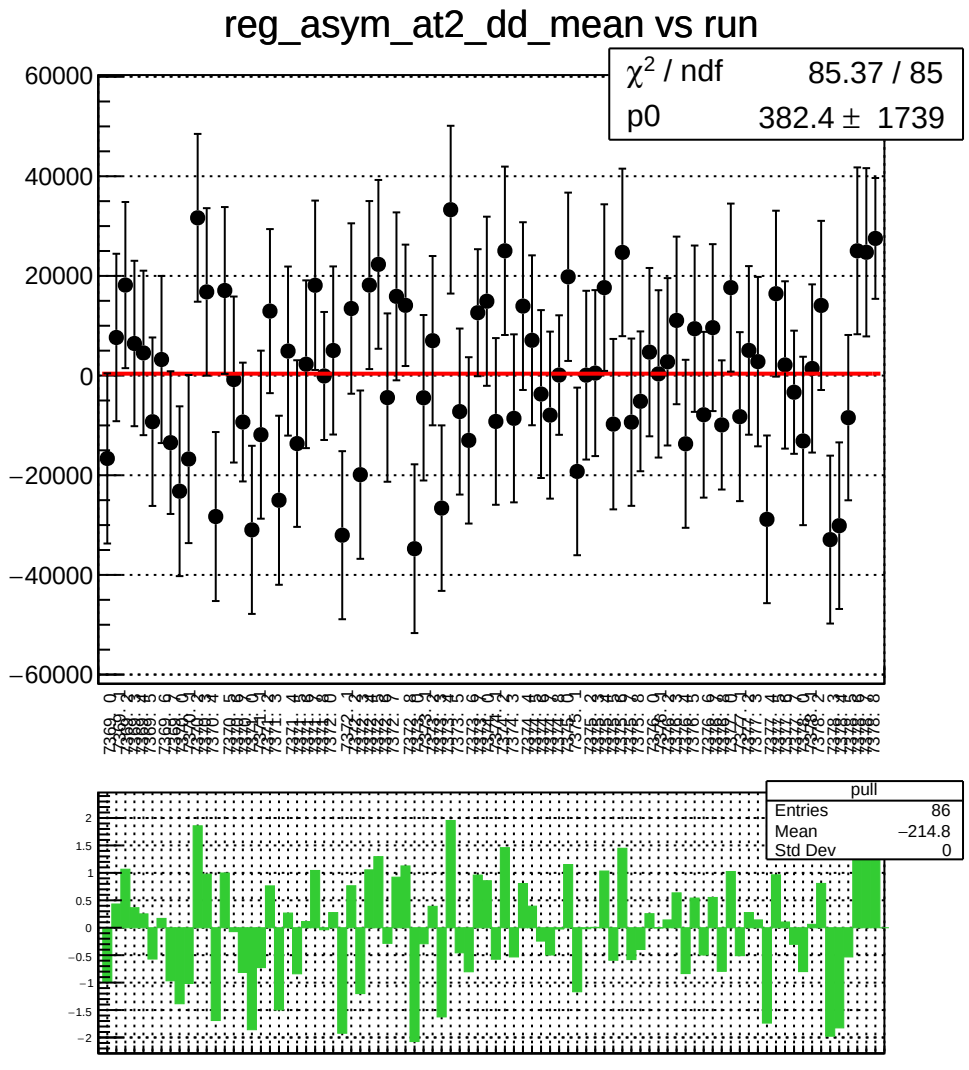

pull1D
Entries 86
Mean 0.06377
Std Dev 1.104

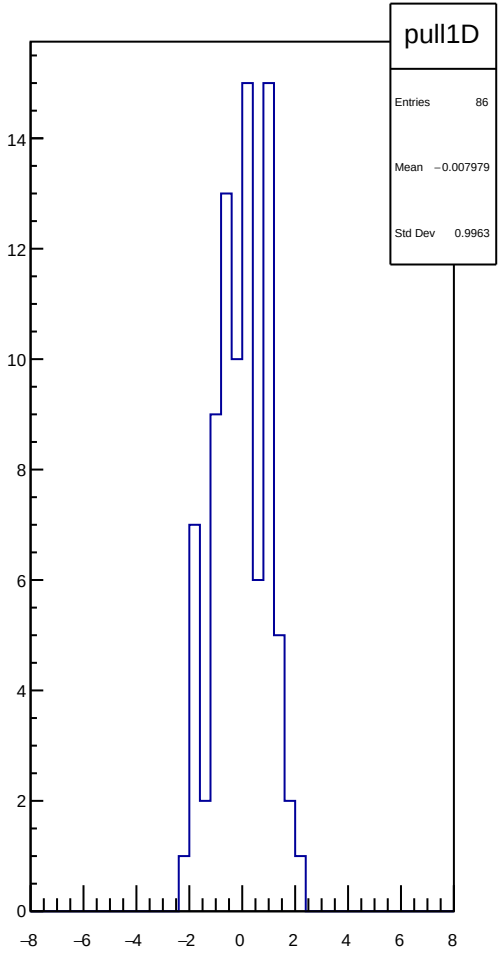

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.834e+04 / 85
p0 1338 ± 1.059
2400
2200
2000
1800
1600
1400
1200
1000
800

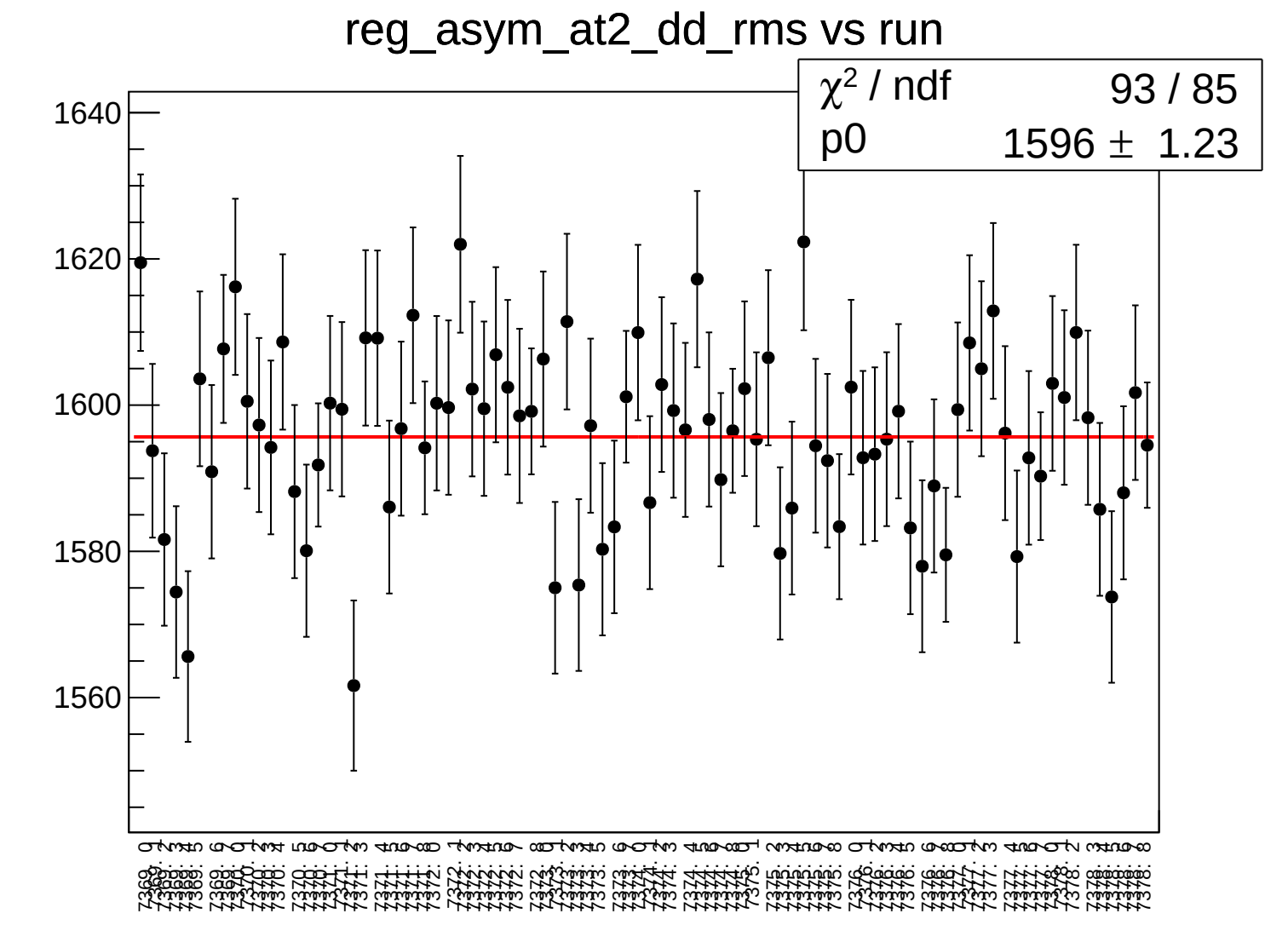

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.93 / 85
p0 −1.09e−13 ± 8.649e−14
pull
Entries 86
Mean −103.6
Std Dev 0

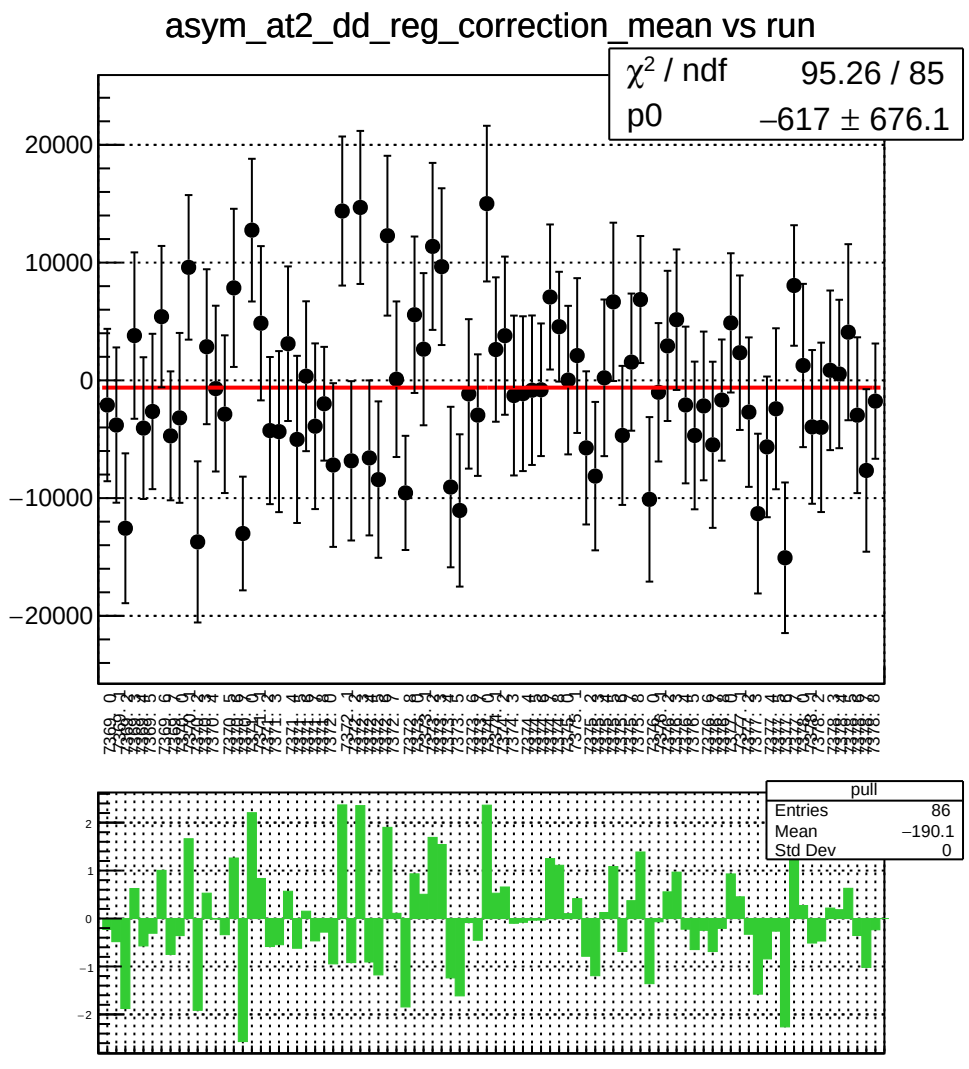

pull1D
Entries 86
Mean 0.009949
Std Dev 1.023

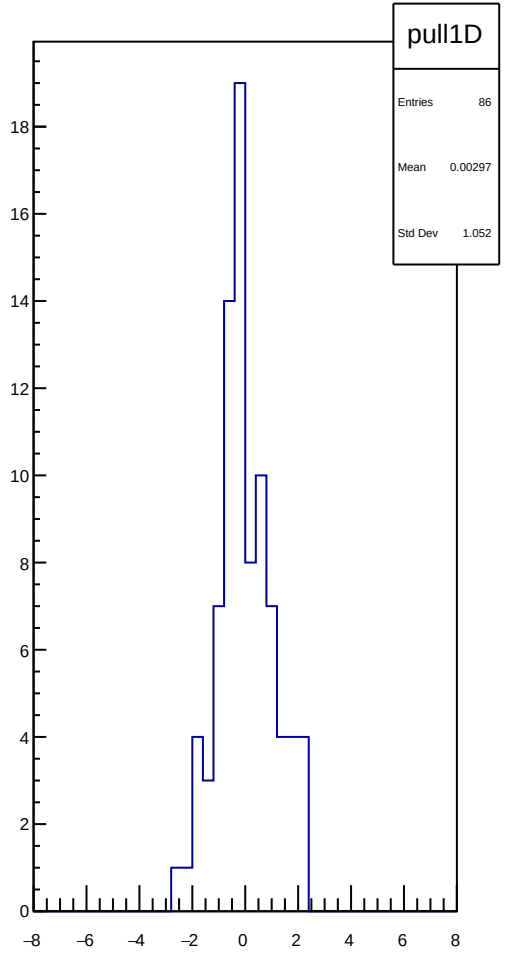

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.996e+05 / 85
p0 6.932e−11 ± 6.116e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

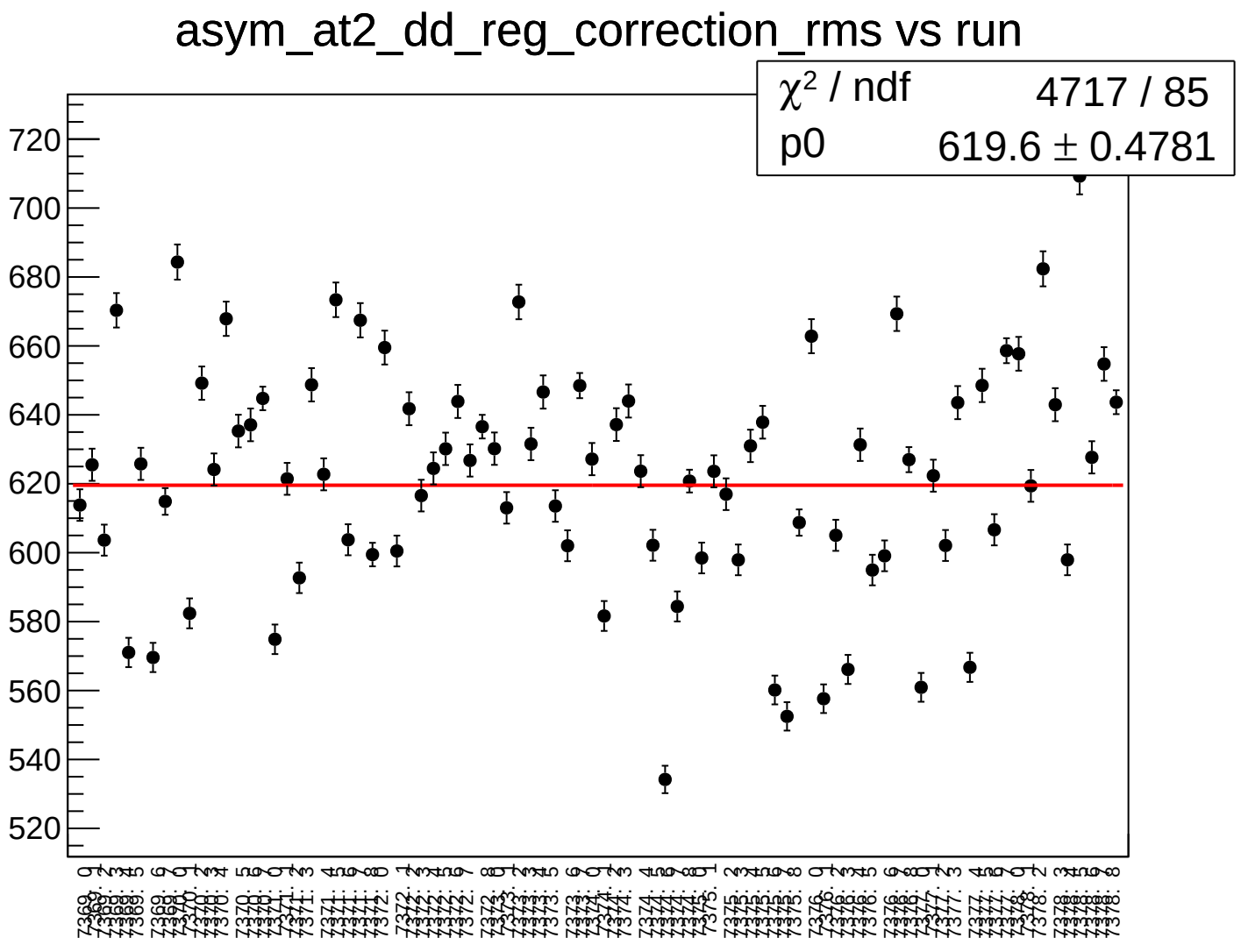

reg_asym_at2_dd_mean vs run
χ^2 / ndf 85.37 / 85
p0 382.4 ± 1739
pull
Entries 86
Mean −214.8
Std Dev 0

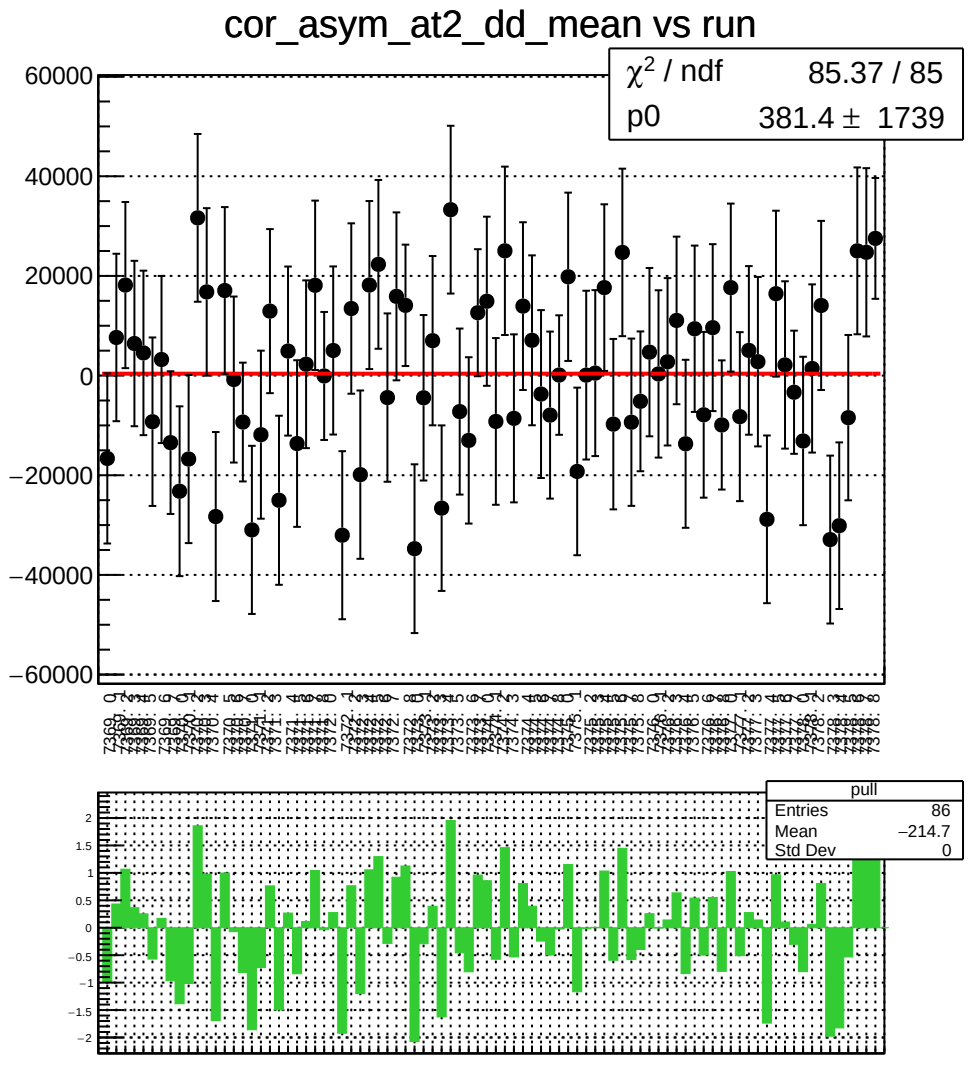

pull1D
Entries 86
Mean −0.007979
Std Dev 0.9963

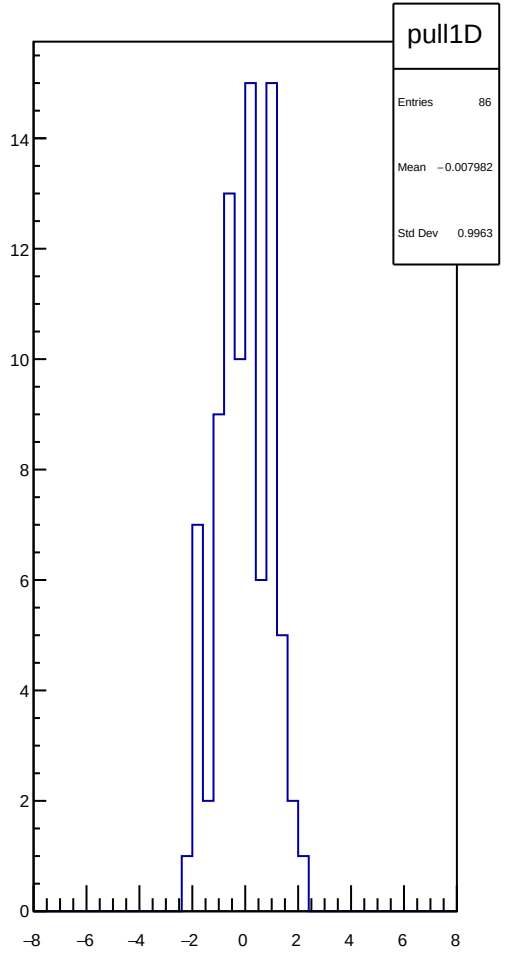

reg_asym_at2_dd_rms vs run
χ² / ndf 93 / 85
p0 1596 ± 1.23
1640
1620
1600
1580
1560

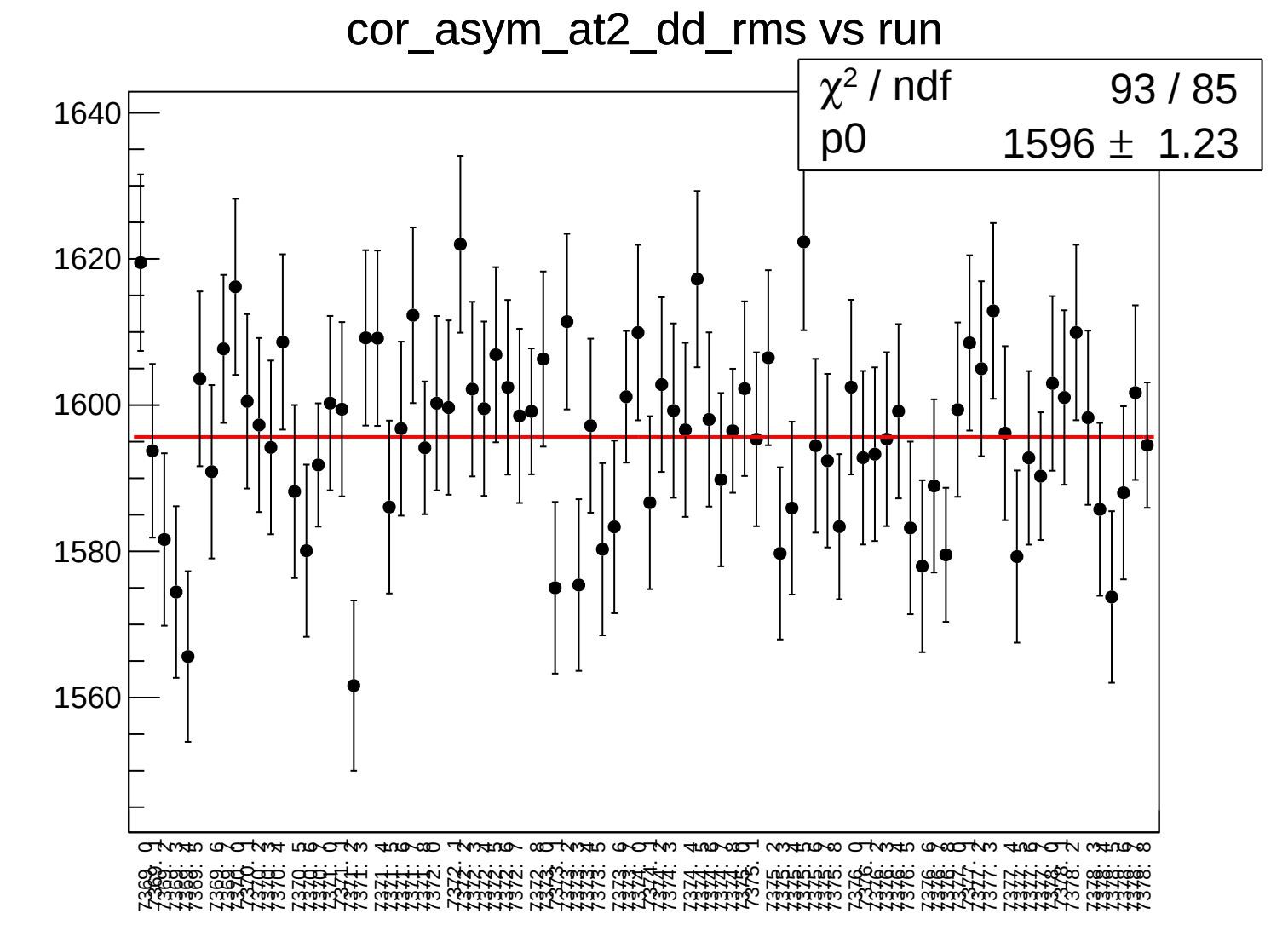

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 95.26 / 85
p0 −617 ± 676.1
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −190.1
Std Dev 0
2
1
0
−1
−2

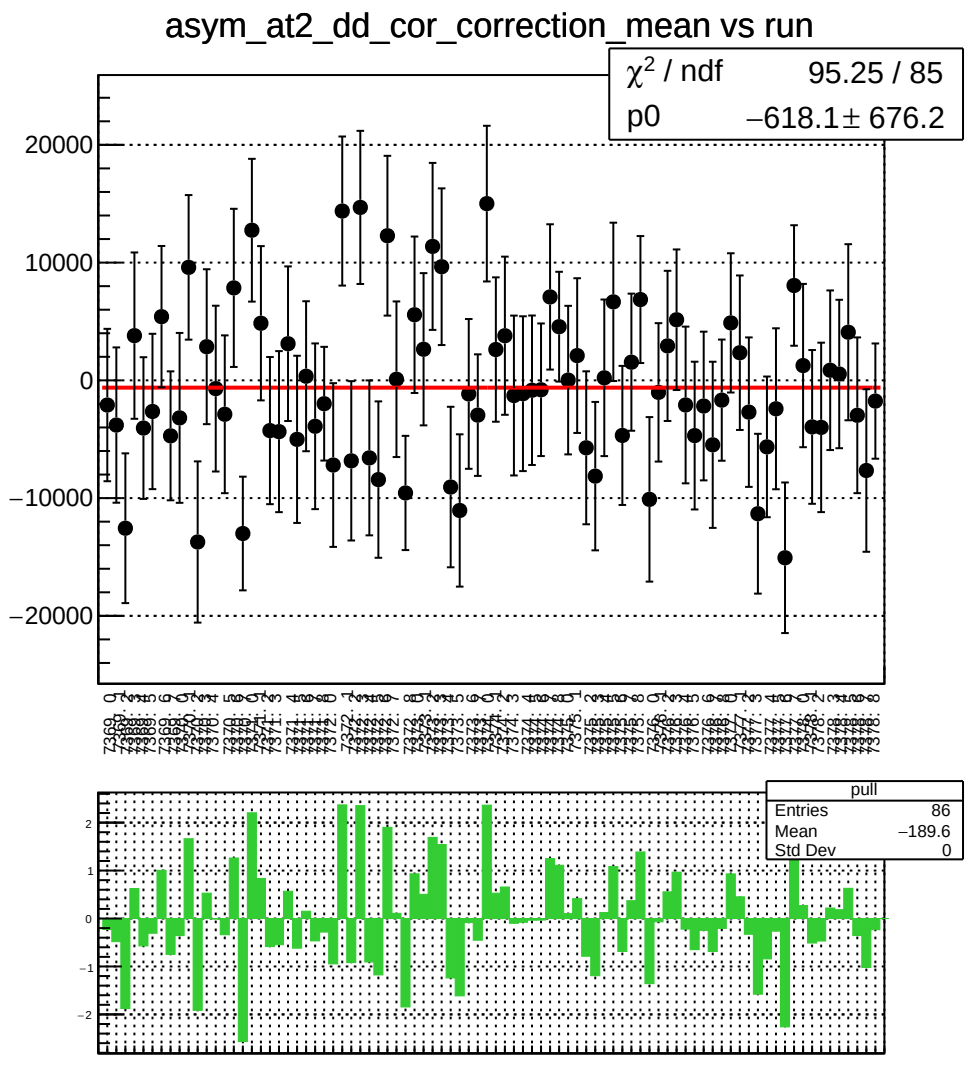

pull1D
Entries 86
Mean 0.00297
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

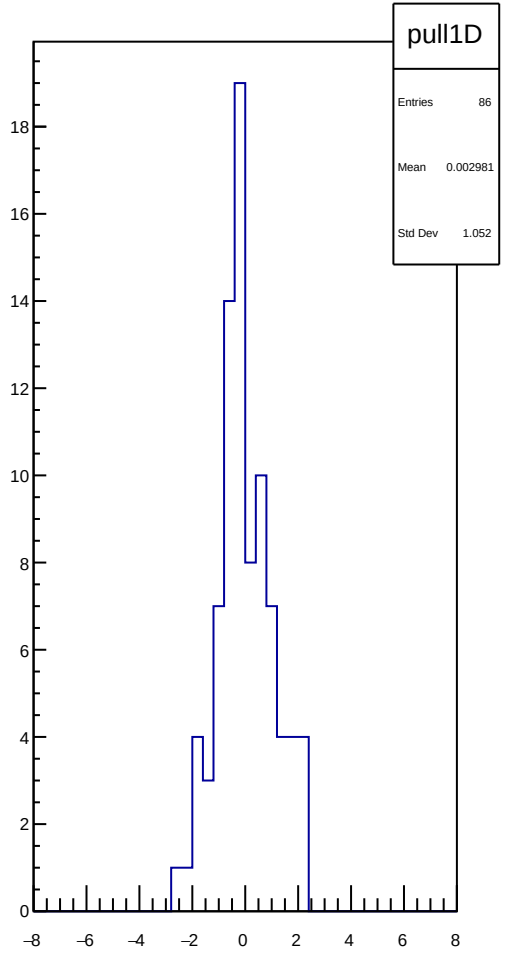

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 4717 / 85
p0 619.6 ± 0.4781
720
700
680
660
640
620
600
580
560
540
520

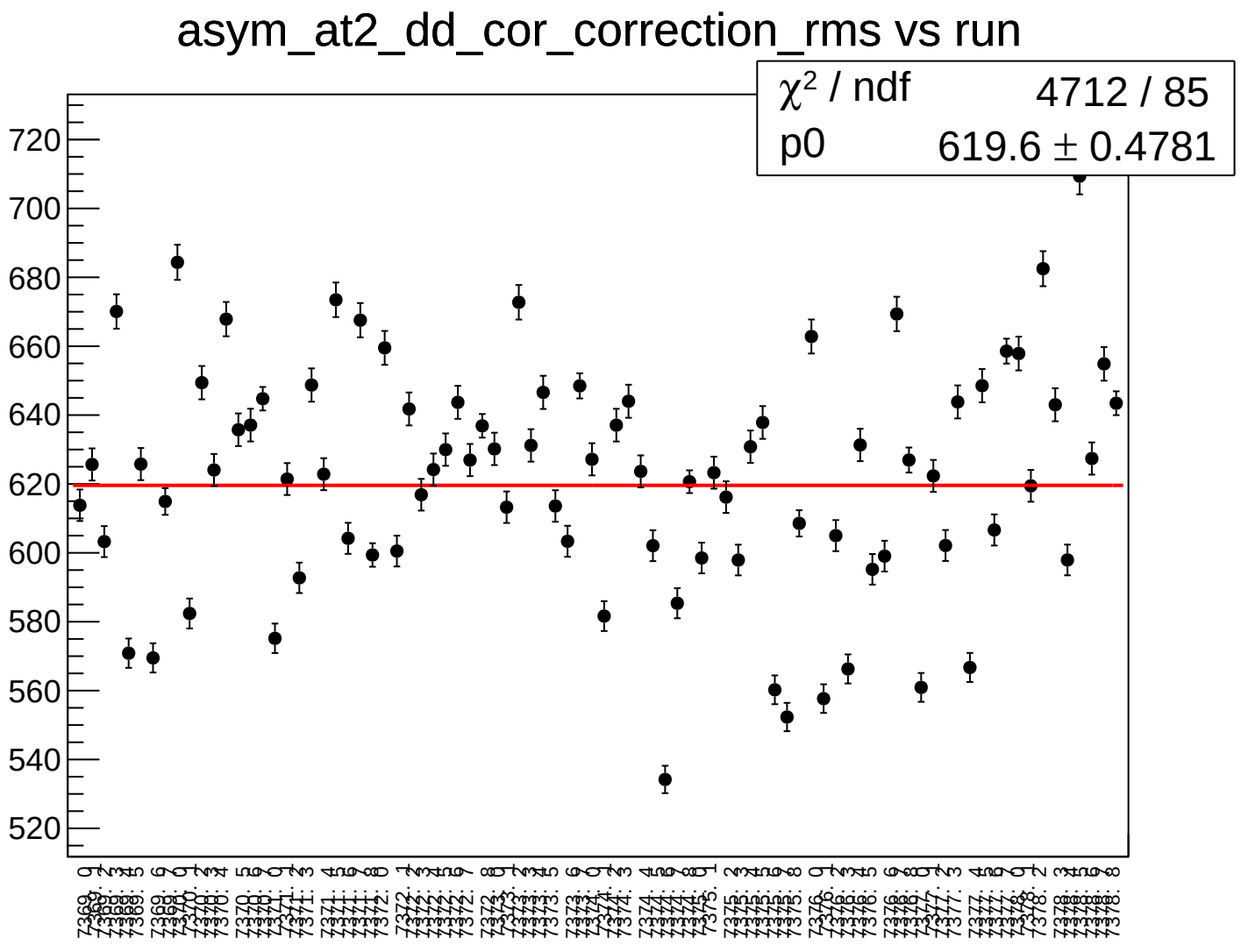

cor_asym_at2_dd_mean vs run
χ² / ndf 85.37 / 85
p0 381.4 ± 1739
pull
Entries 86
Mean −214.7
Std Dev 0

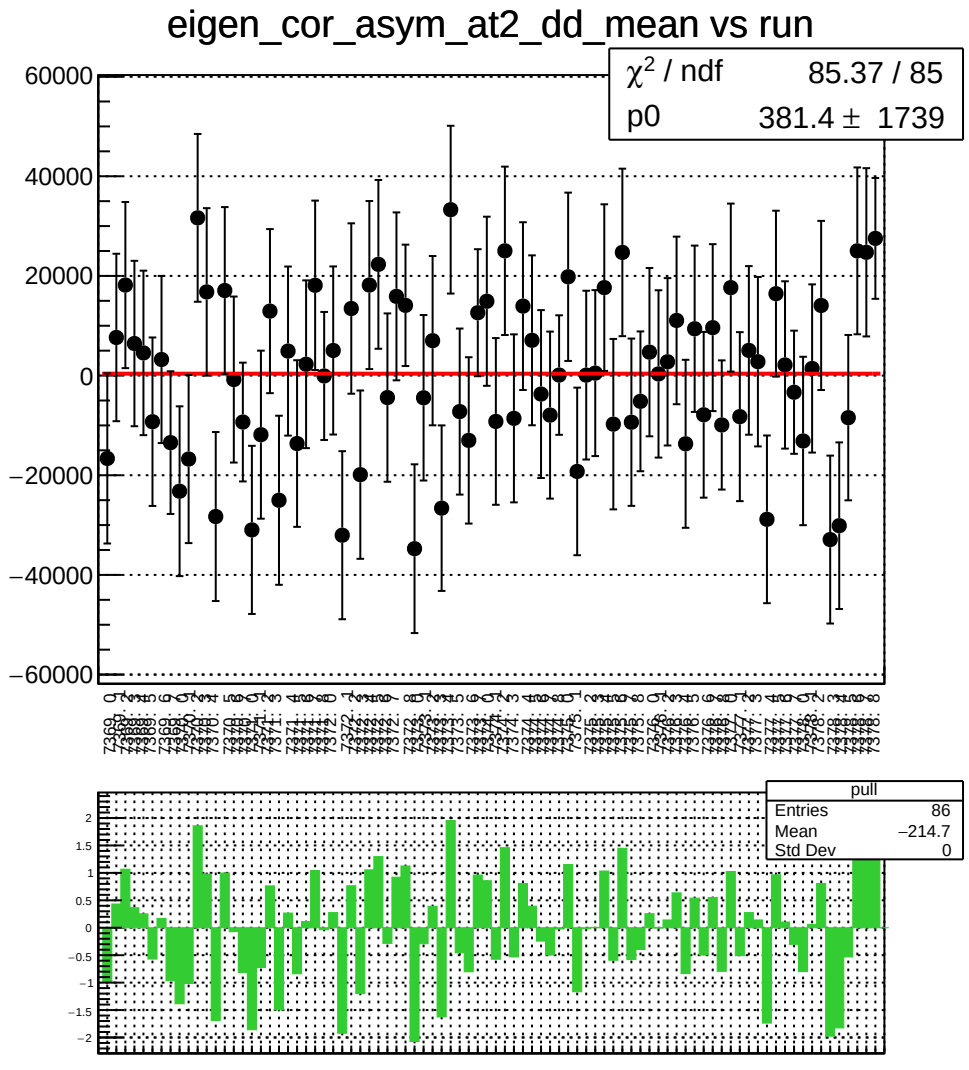

pull1D
Entries 86
Mean −0.007982
Std Dev 0.9963

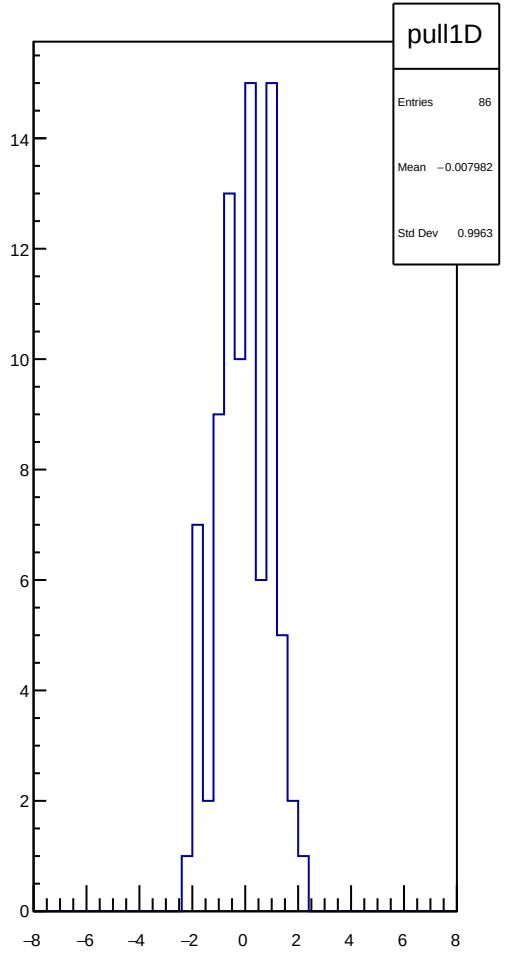

cor_asym_at2_dd_rms vs run
χ² / ndf 93 / 85
p0 1596 ± 1.23
1640
1620
1600
1580
1560

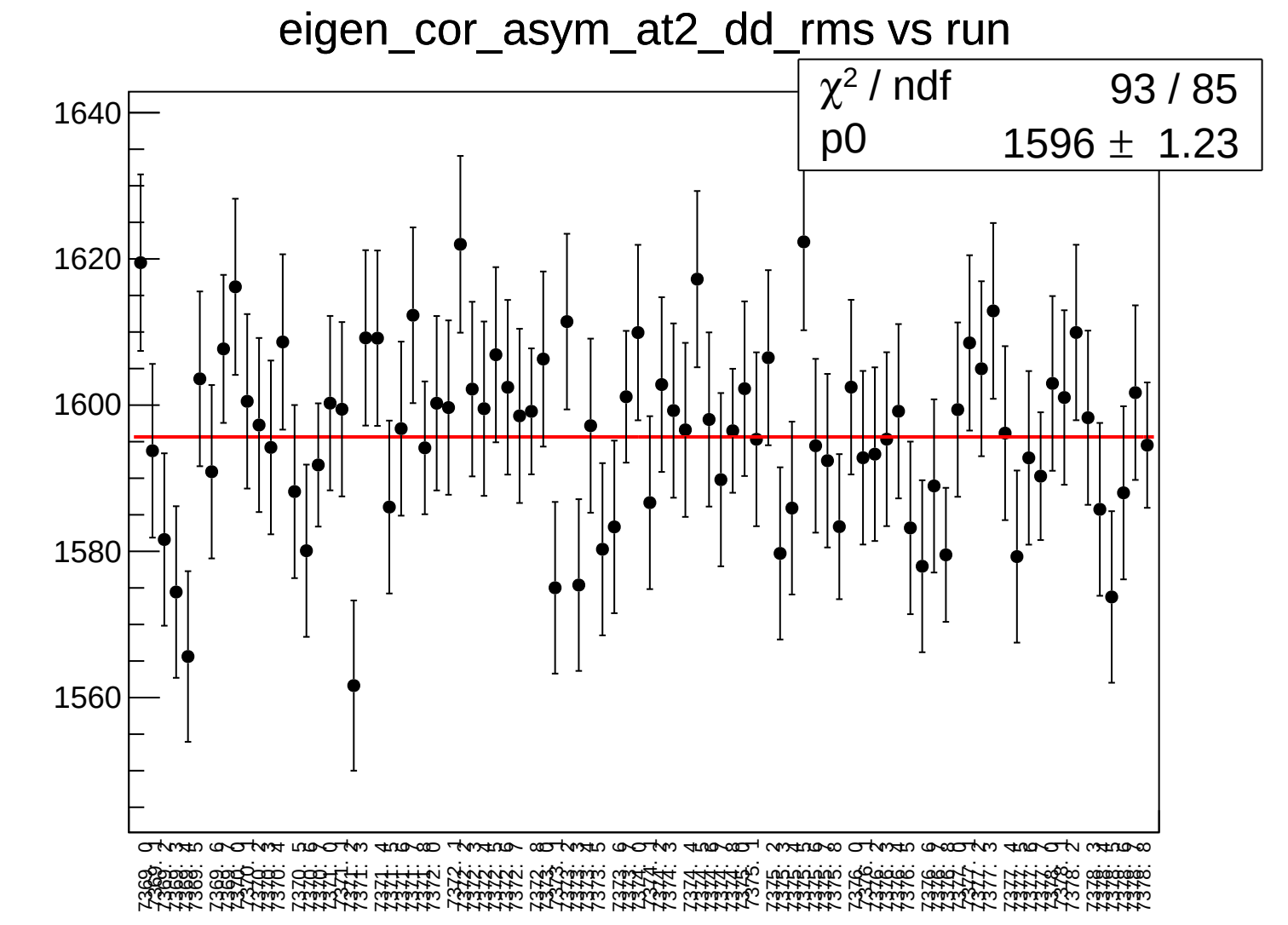

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 95.25 / 85
p0 −618.1 ± 676.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −189.6
Std Dev 0
2
1
0
−1
−2

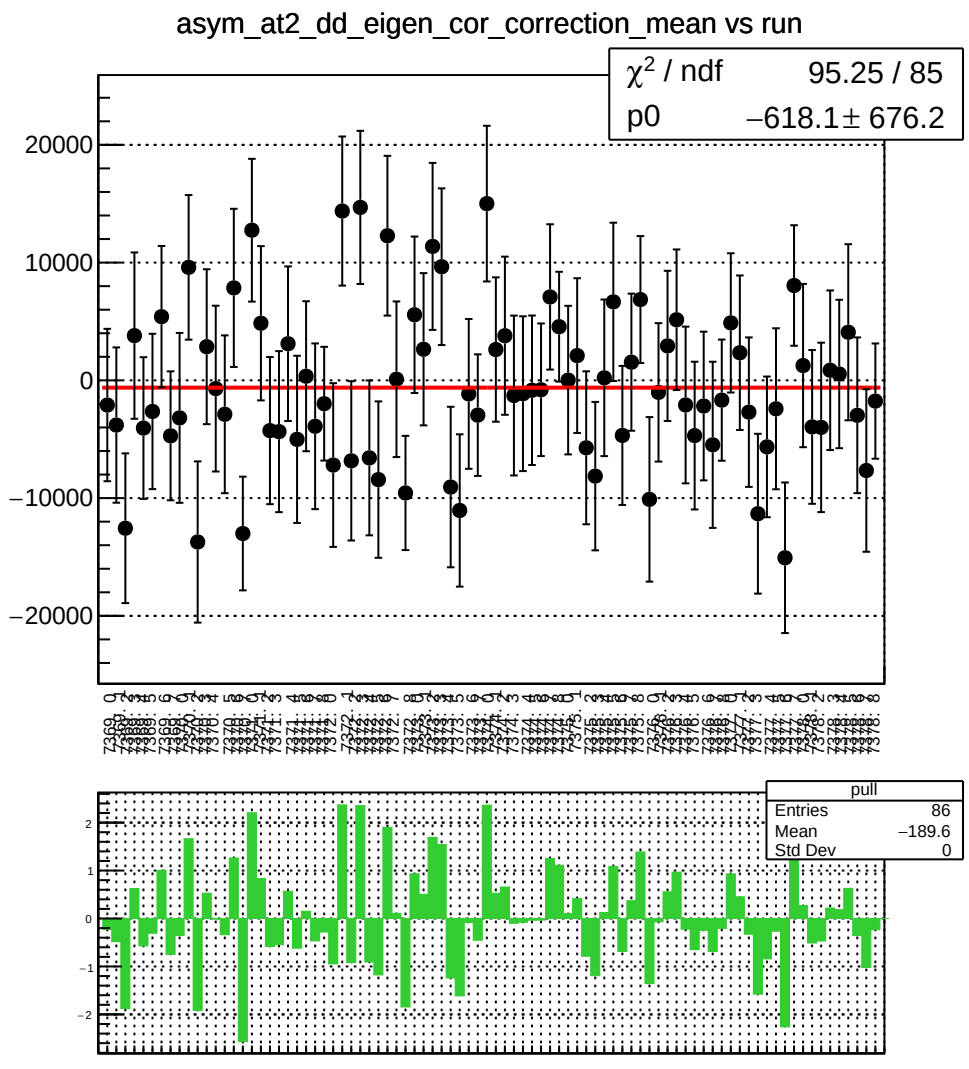

pull1D
Entries 86
Mean 0.002981
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

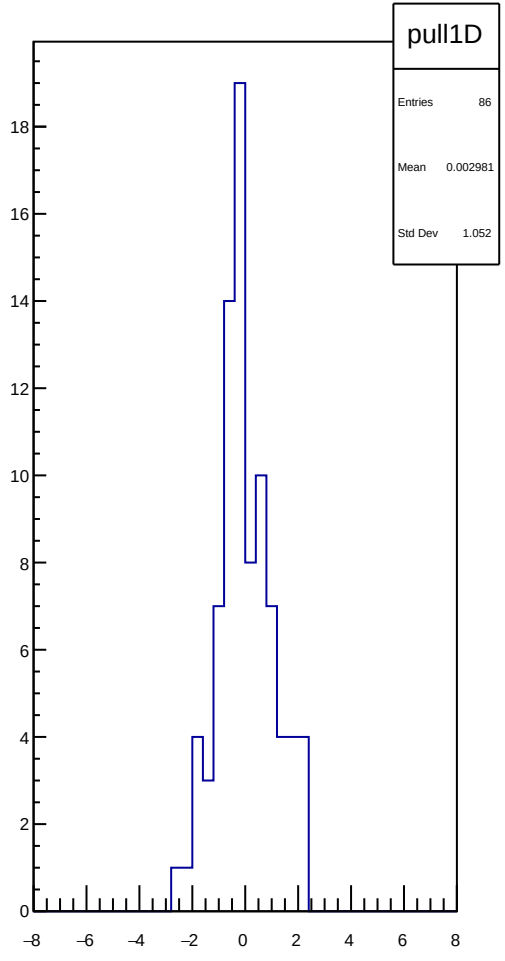

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 4712 / 85
p0 619.6 ± 0.4781
720
700
680
660
640
620
600
580
560
540
520

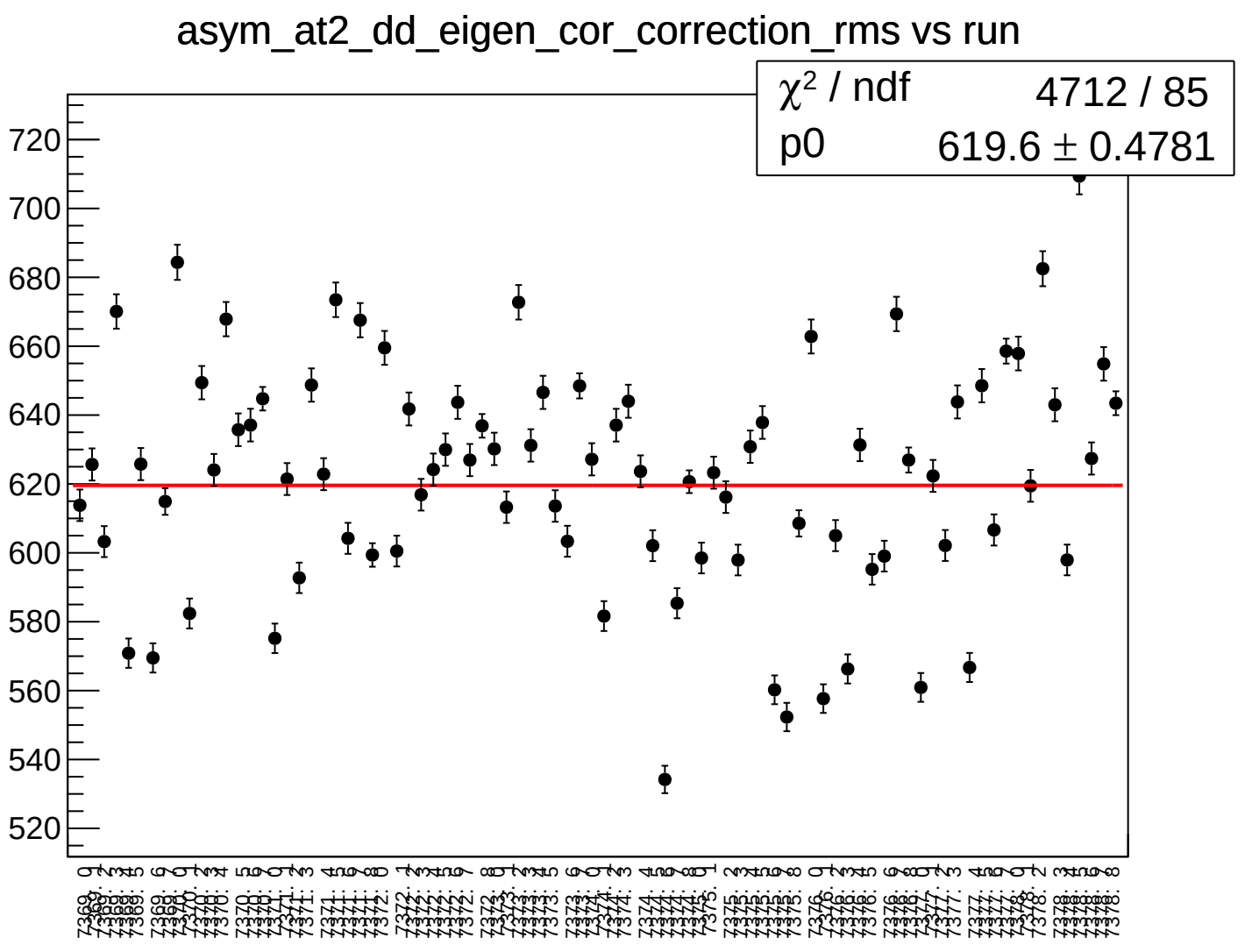

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 85.37 / 85
p0 381.4 ± 1739
pull
Entries 86
Mean −214.7
Std Dev 0

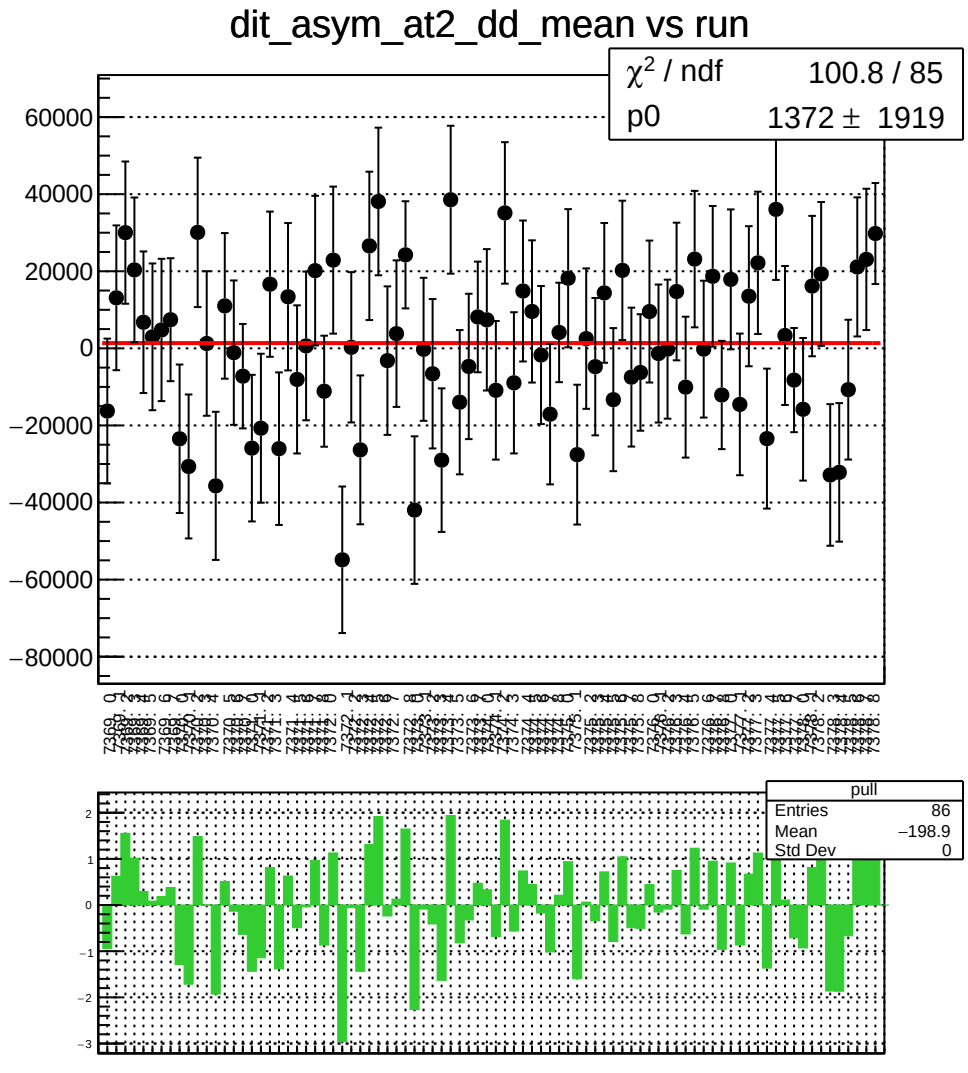

pull1D
Entries 86
Mean −0.007982
Std Dev 0.9963

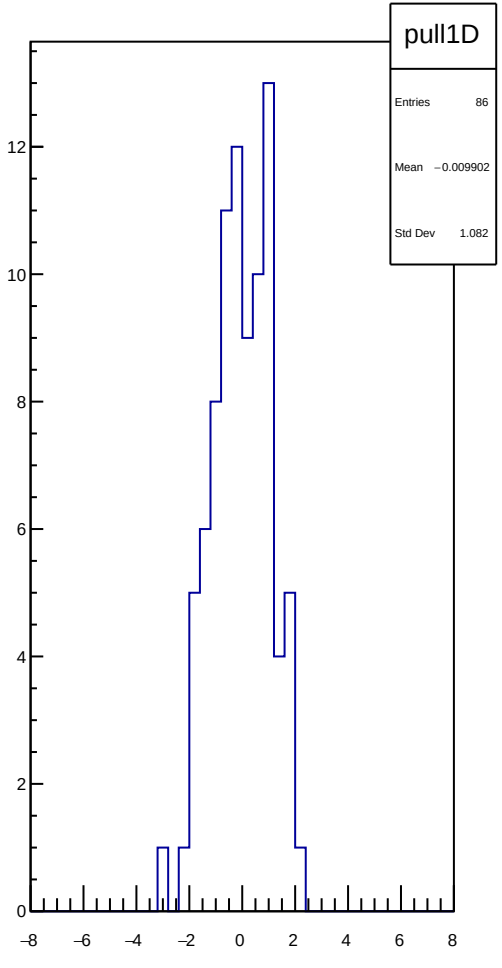

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 93 / 85
p0 1596 ± 1.23
1640
1620
1600
1580
1560

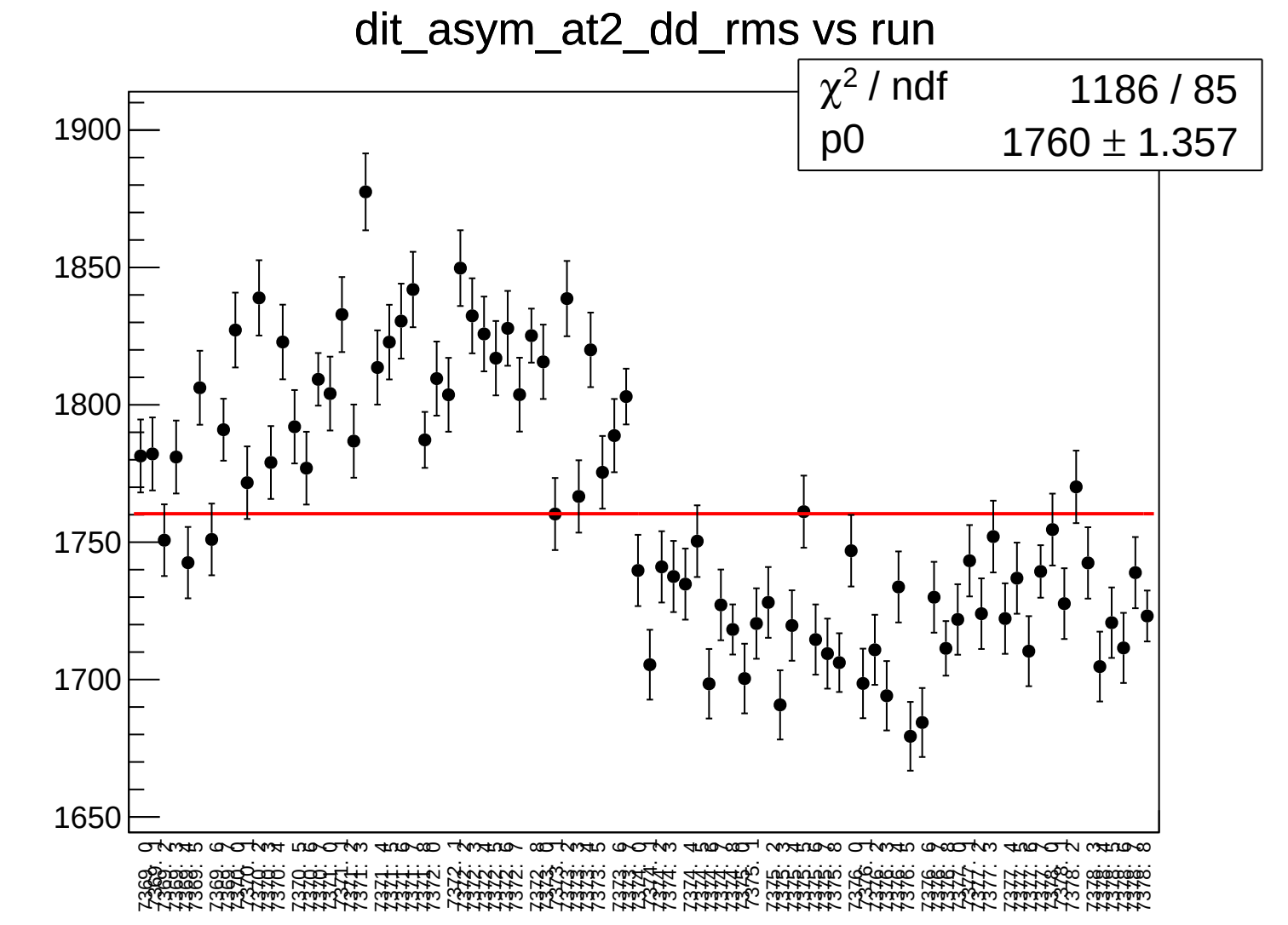

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.25 / 85
p0 −618.1 ± 676.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −189.6
Std Dev 0
2
1
0
−1
−2

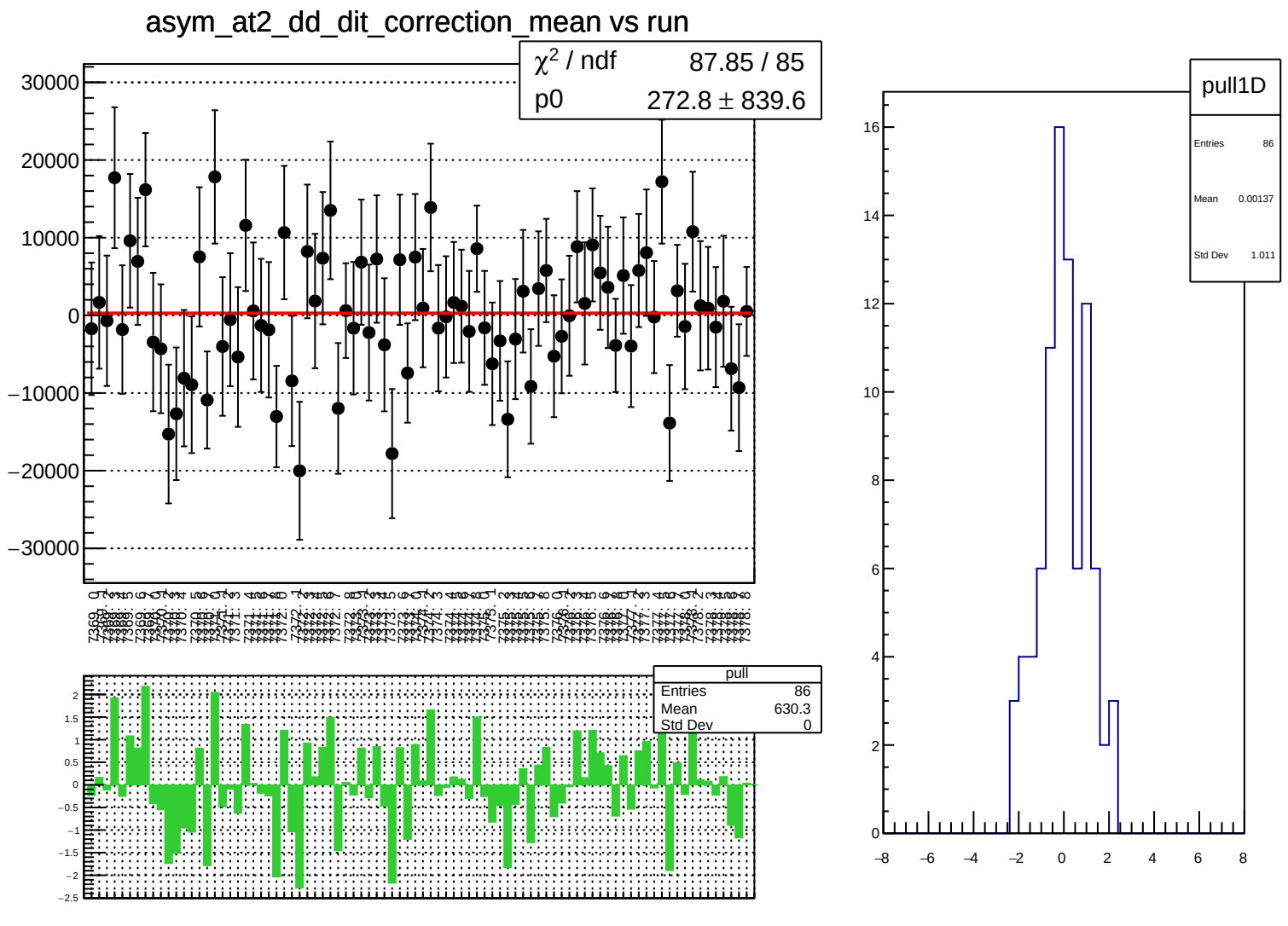

pull1D
Entries 86
Mean 0.002981
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

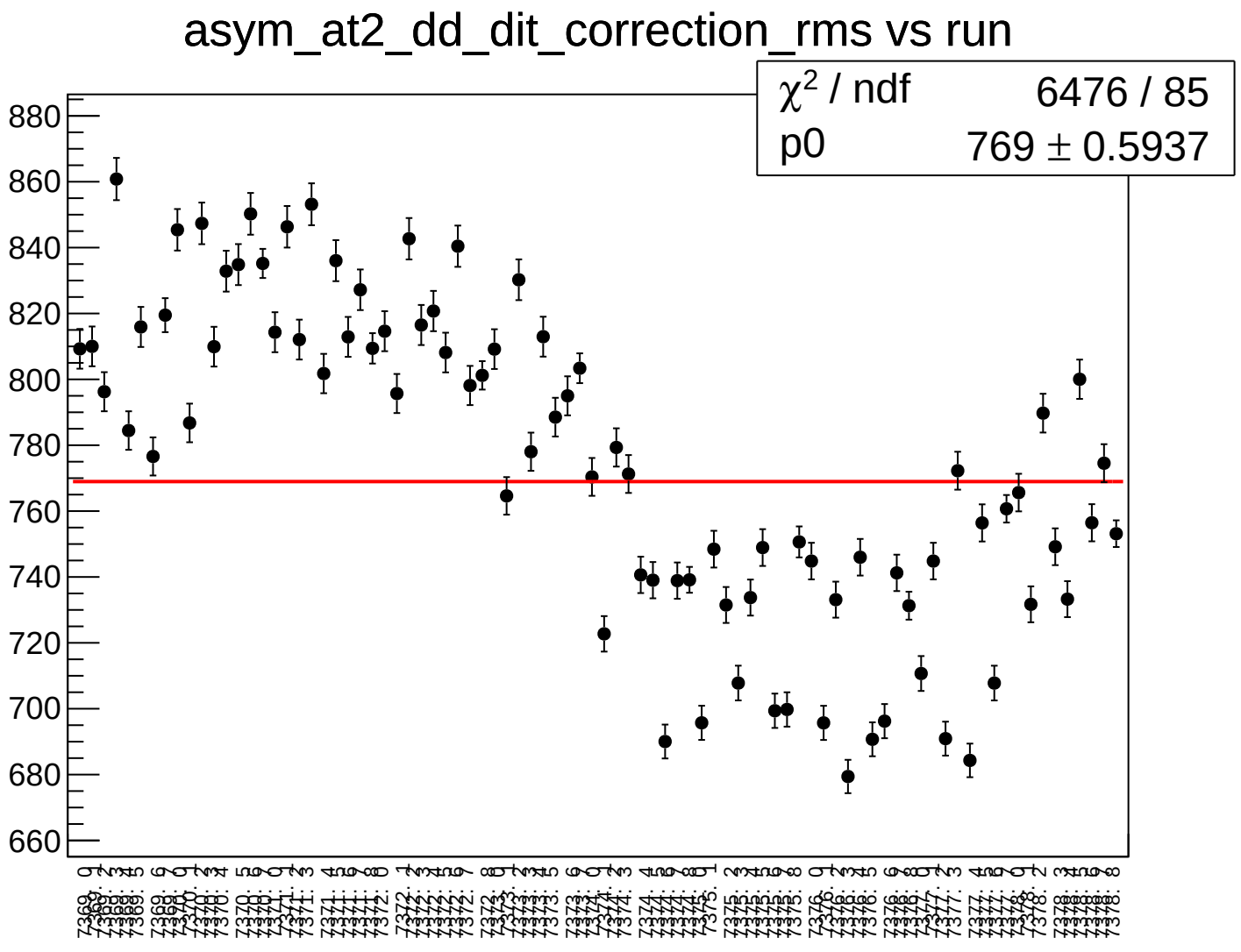

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4712 / 85
p0 619.6 ± 0.4781
720
700
680
660
640
620
600
580
560
540
520

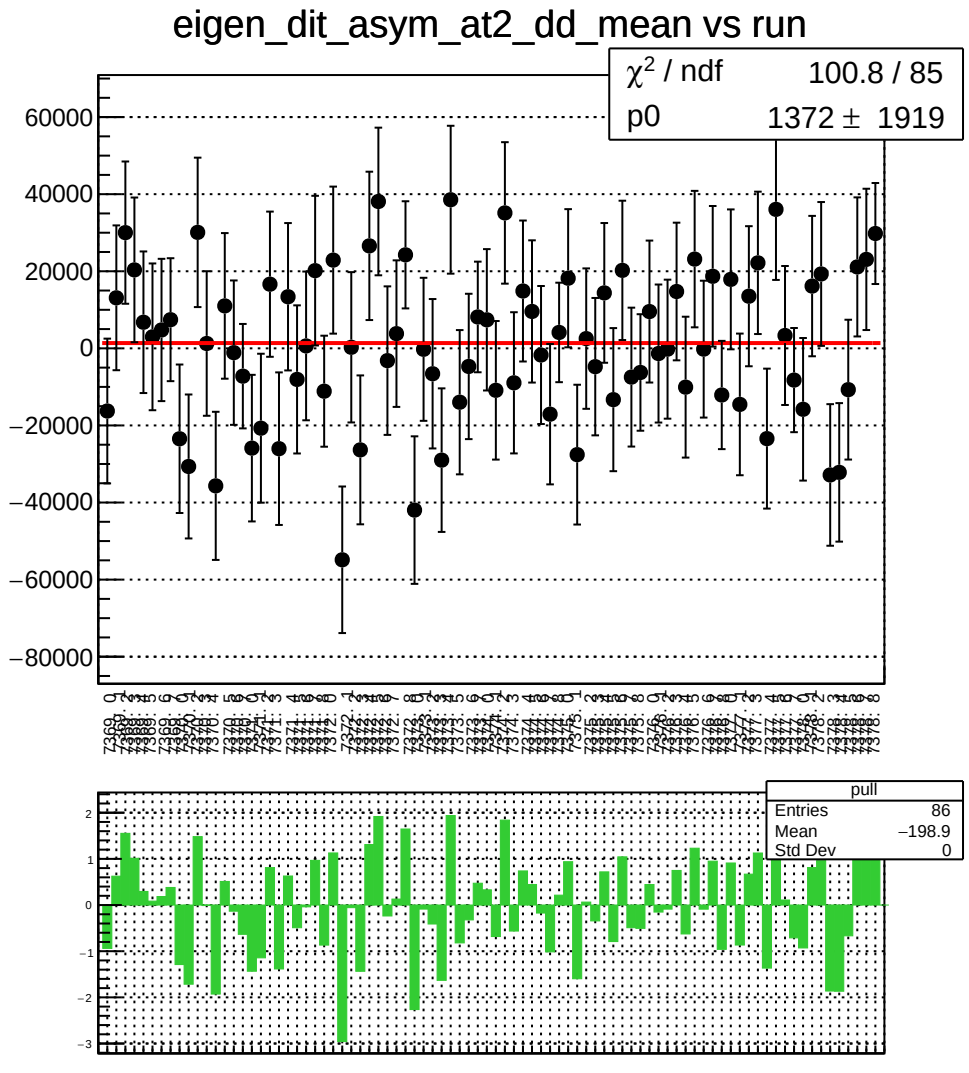

dit_asym_at2_dd_mean vs run
χ^2 / ndf 100.8 / 85
p0 1372 ± 1919
pull
Entries 86
Mean −198.9
Std Dev 0

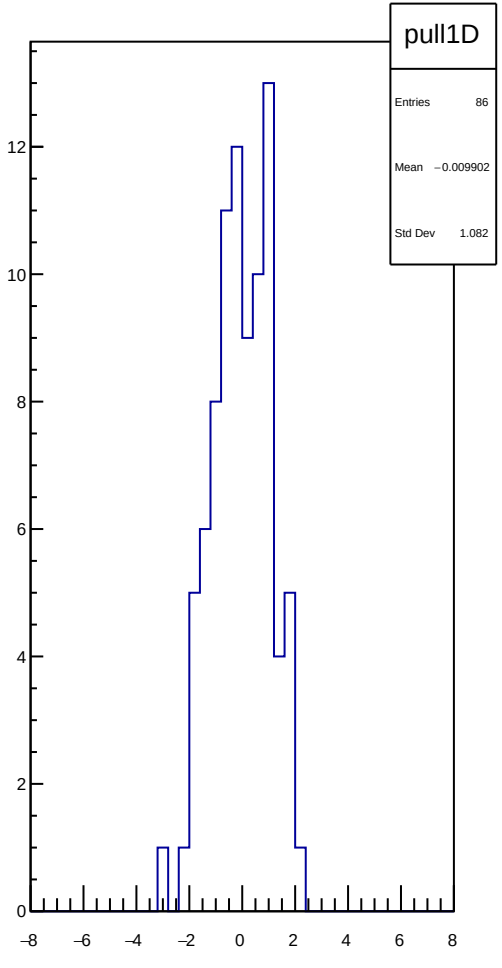

pull1D
Entries 86
Mean −0.009902
Std Dev 1.082

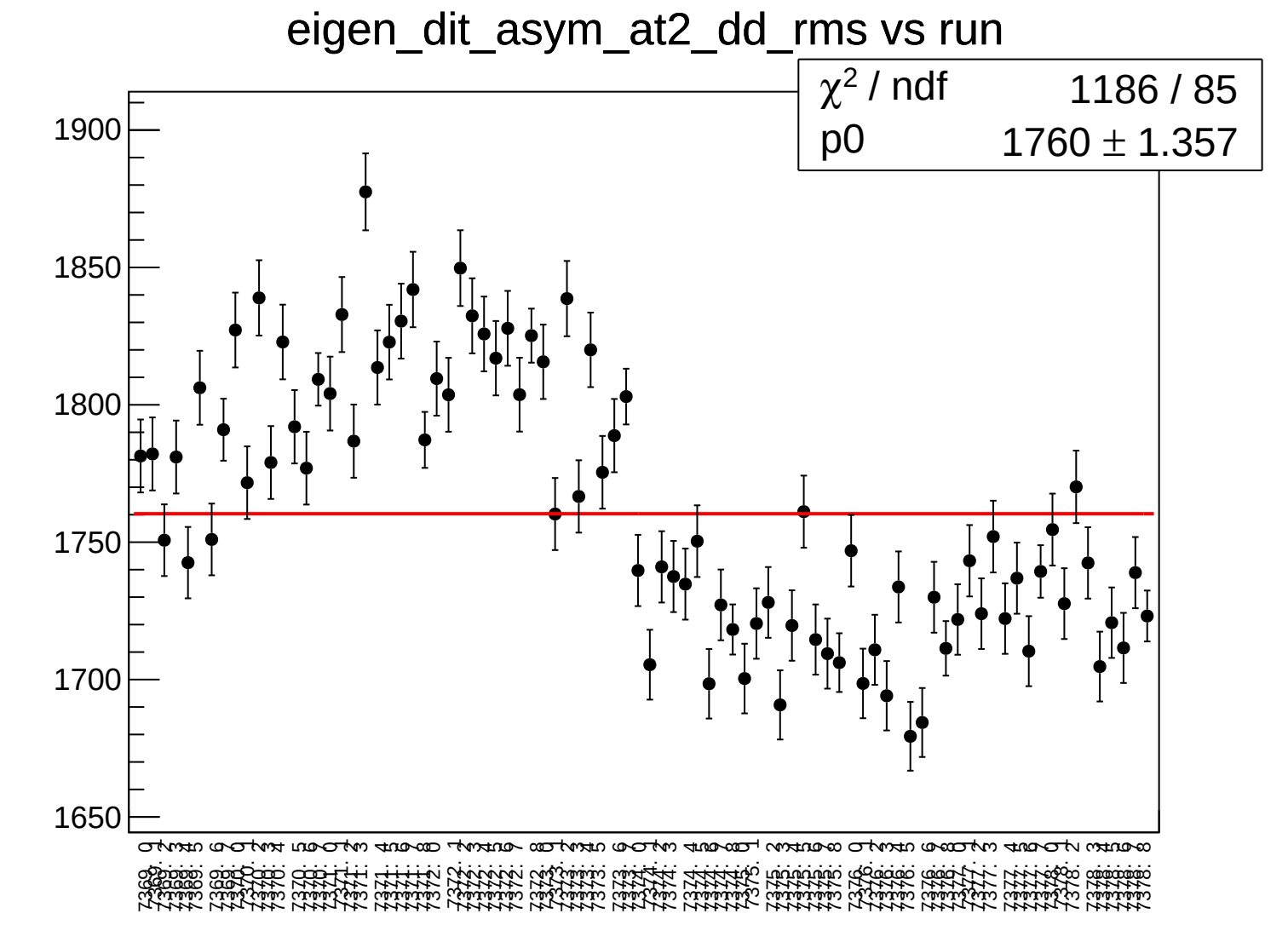

dit_asym_at2_dd_rms vs run
χ² / ndf 1186 / 85
p0 1760 ± 1.357
1900
1850
1800
1750
1700
1650

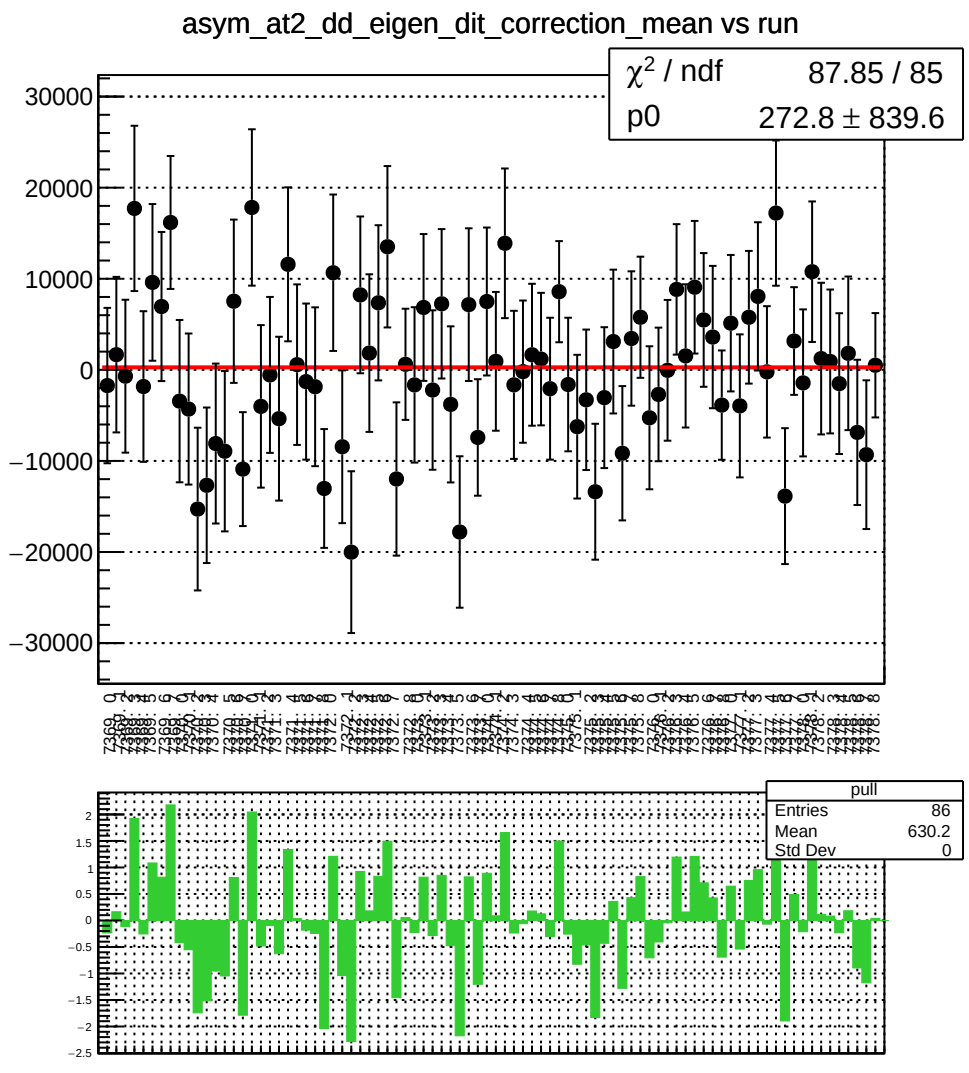

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 87.85 / 85
p0 272.8 ± 839.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 630.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 86
Mean 0.00137
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

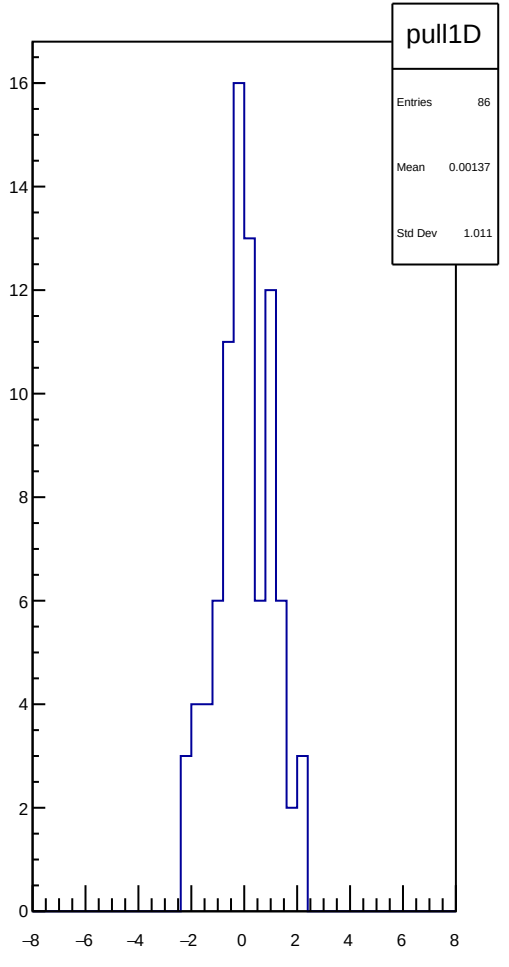

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 6476 / 85
p0 769 ± 0.5937
880
860
840
820
800
780
760
740
720
700
680
660

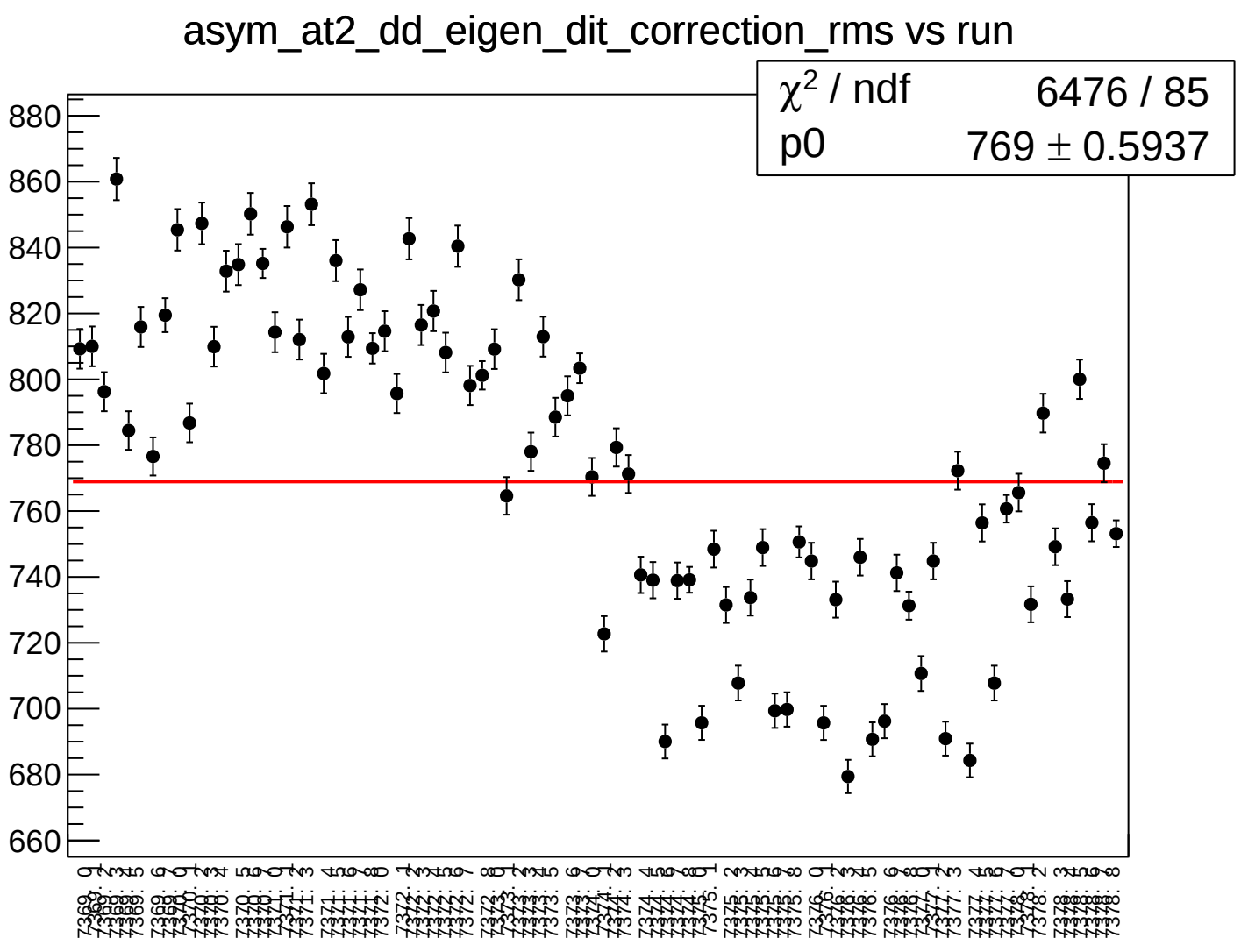

eigen_dit_asym_at2_dd_mean vs run
χ^2 / ndf 100.8 / 85
p0 1372 ± 1919
pull
Entries 86
Mean −198.9
Std Dev 0

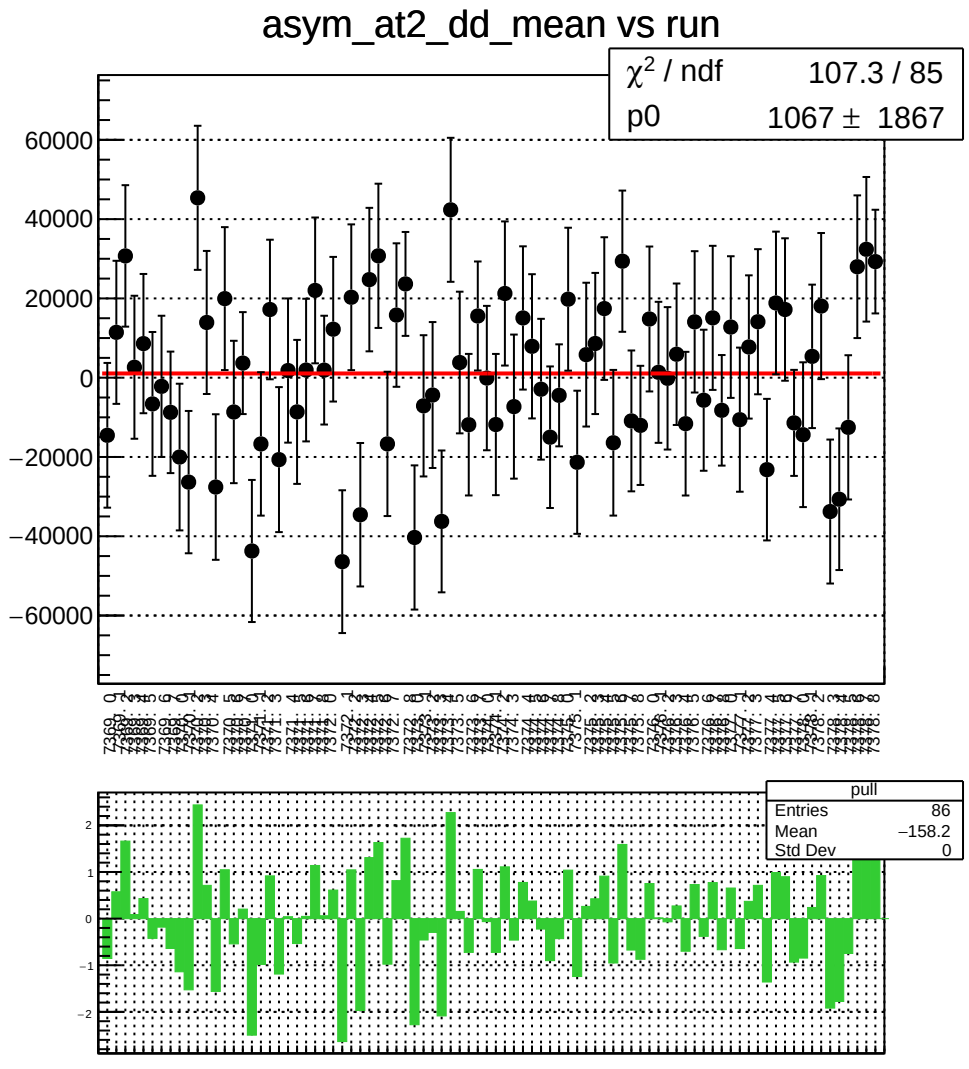

pull1D
Entries 86
Mean −0.009902
Std Dev 1.082

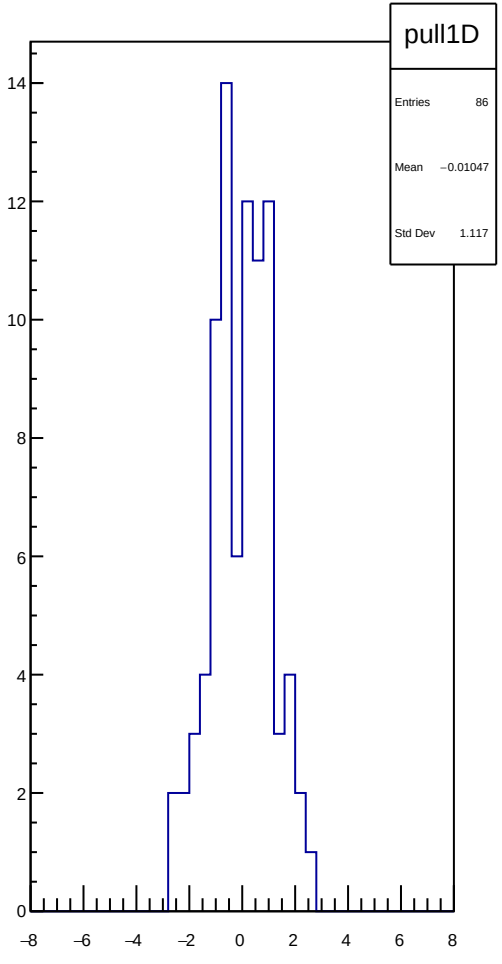

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 1186 / 85
p0 1760 ± 1.357
1900
1850
1800
1750
1700
1650

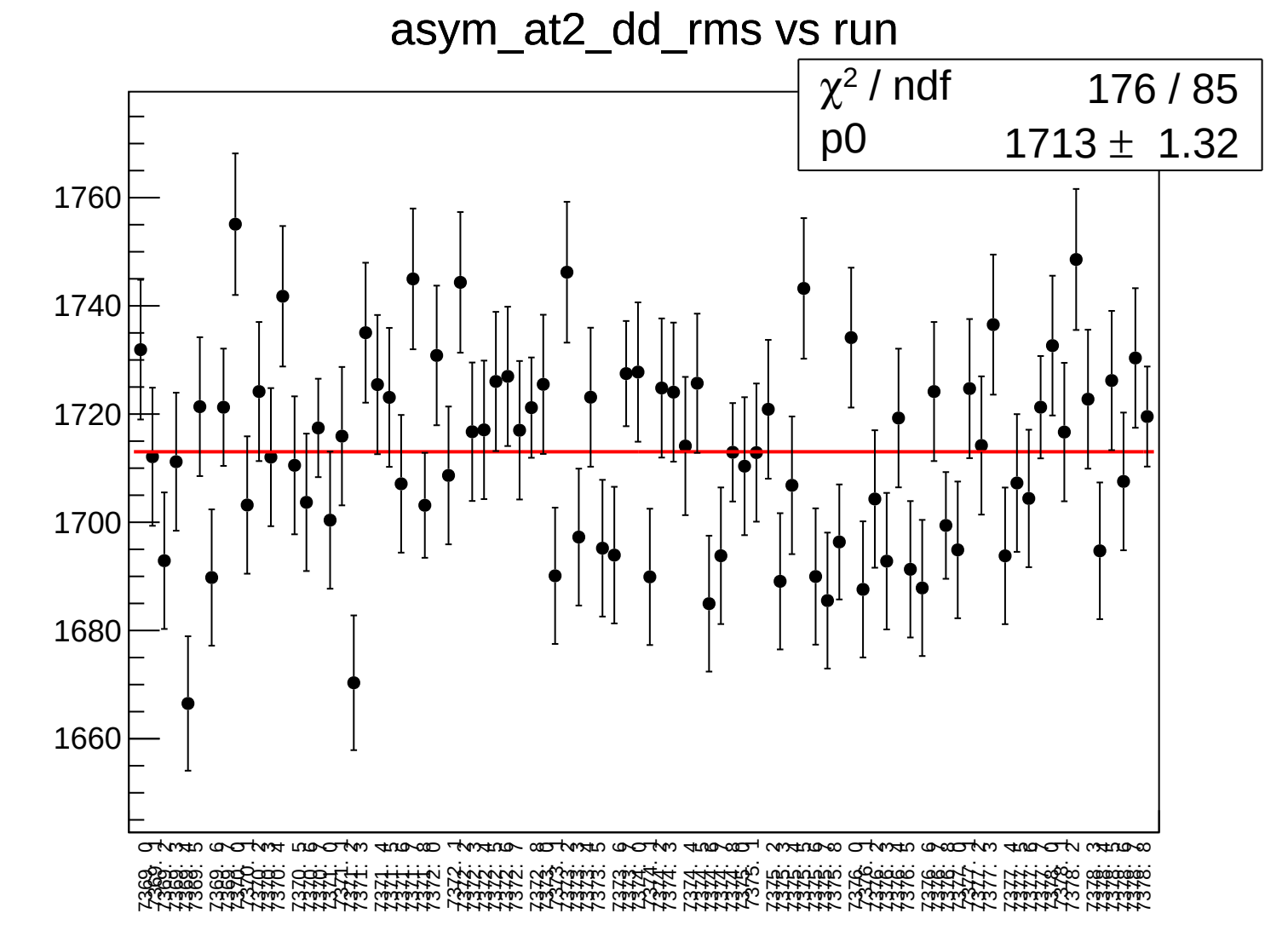

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.85 / 85
p0 272.8 ± 839.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 630.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

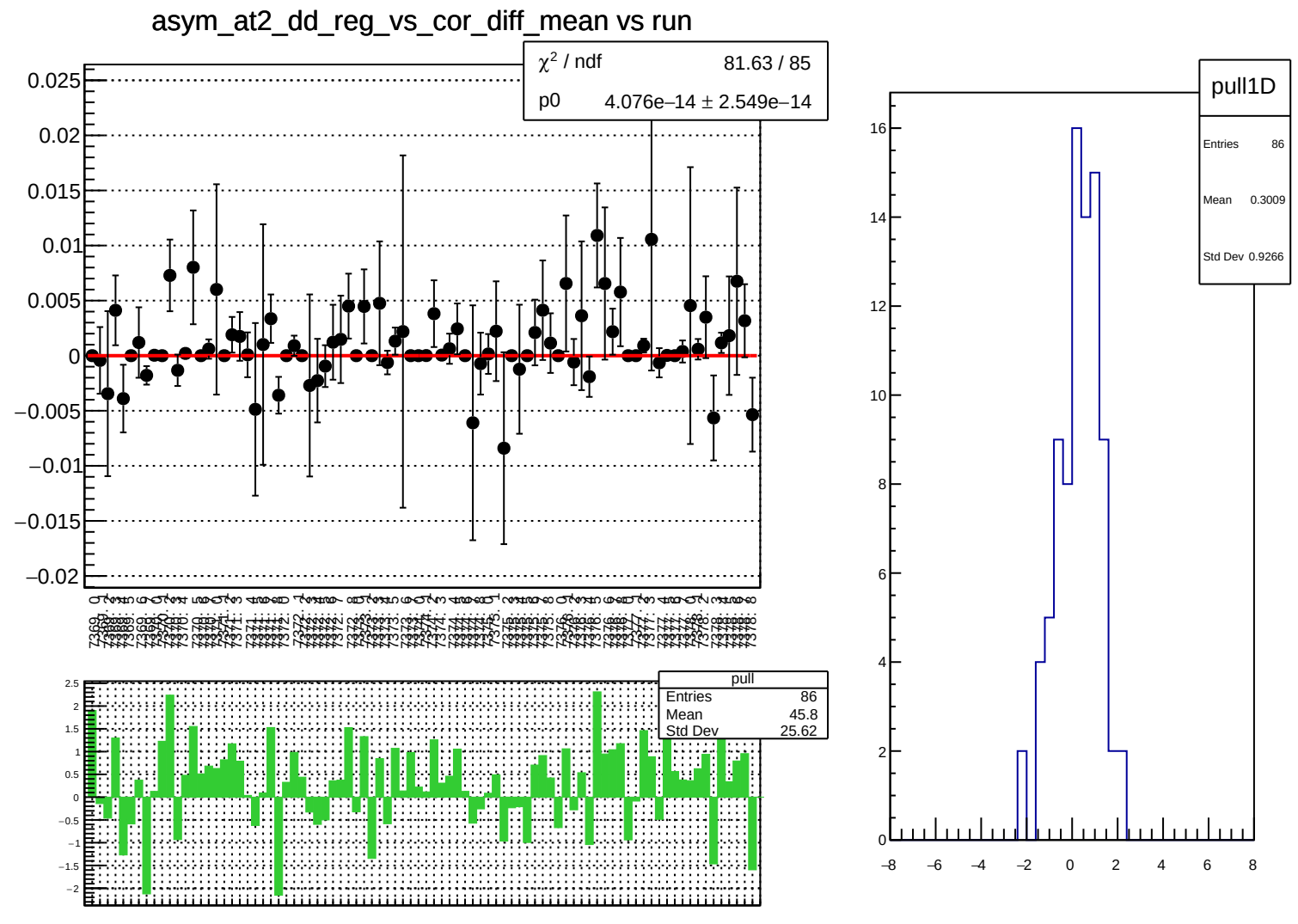

pull1D
Entries 86
Mean 0.00137
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

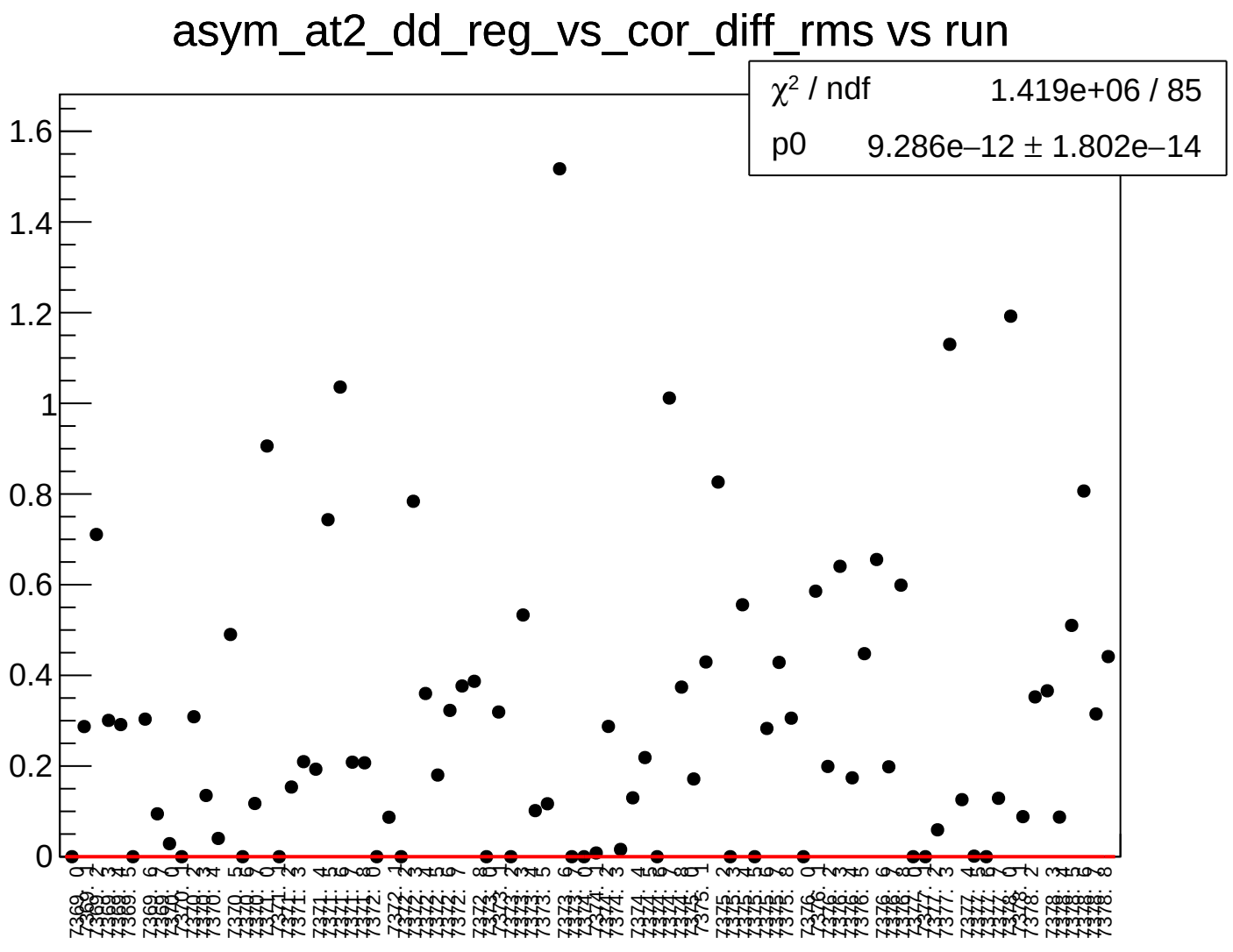

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6476 / 85
p0 769 ± 0.5937
880
860
840
820
800
780
760
740
720
700
680
660

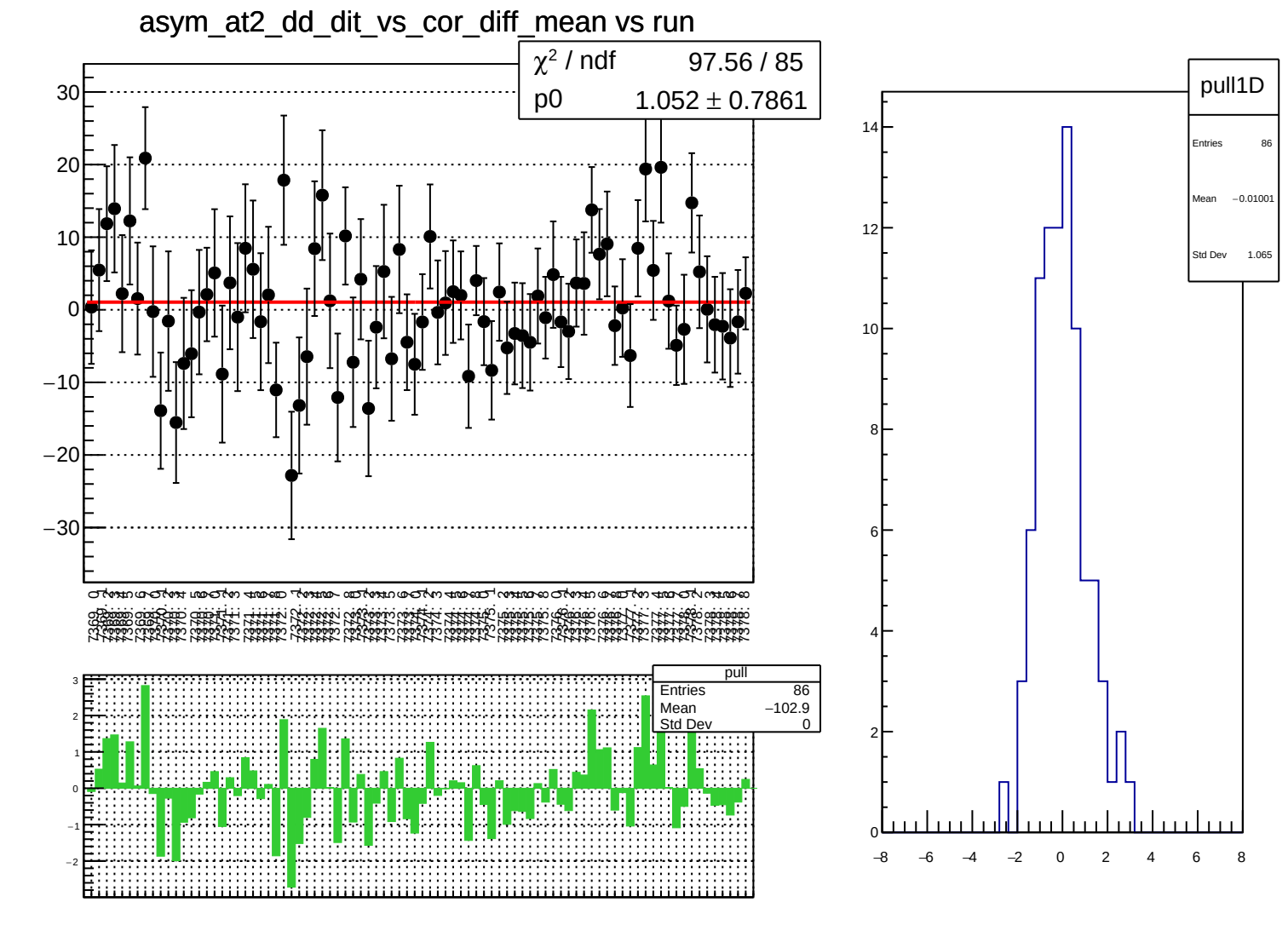

asym_at2_dd_mean vs run
χ² / ndf 107.3 / 85
p0 1067 ± 1867
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −158.2
Std Dev 0
2
1
0
−1
−2

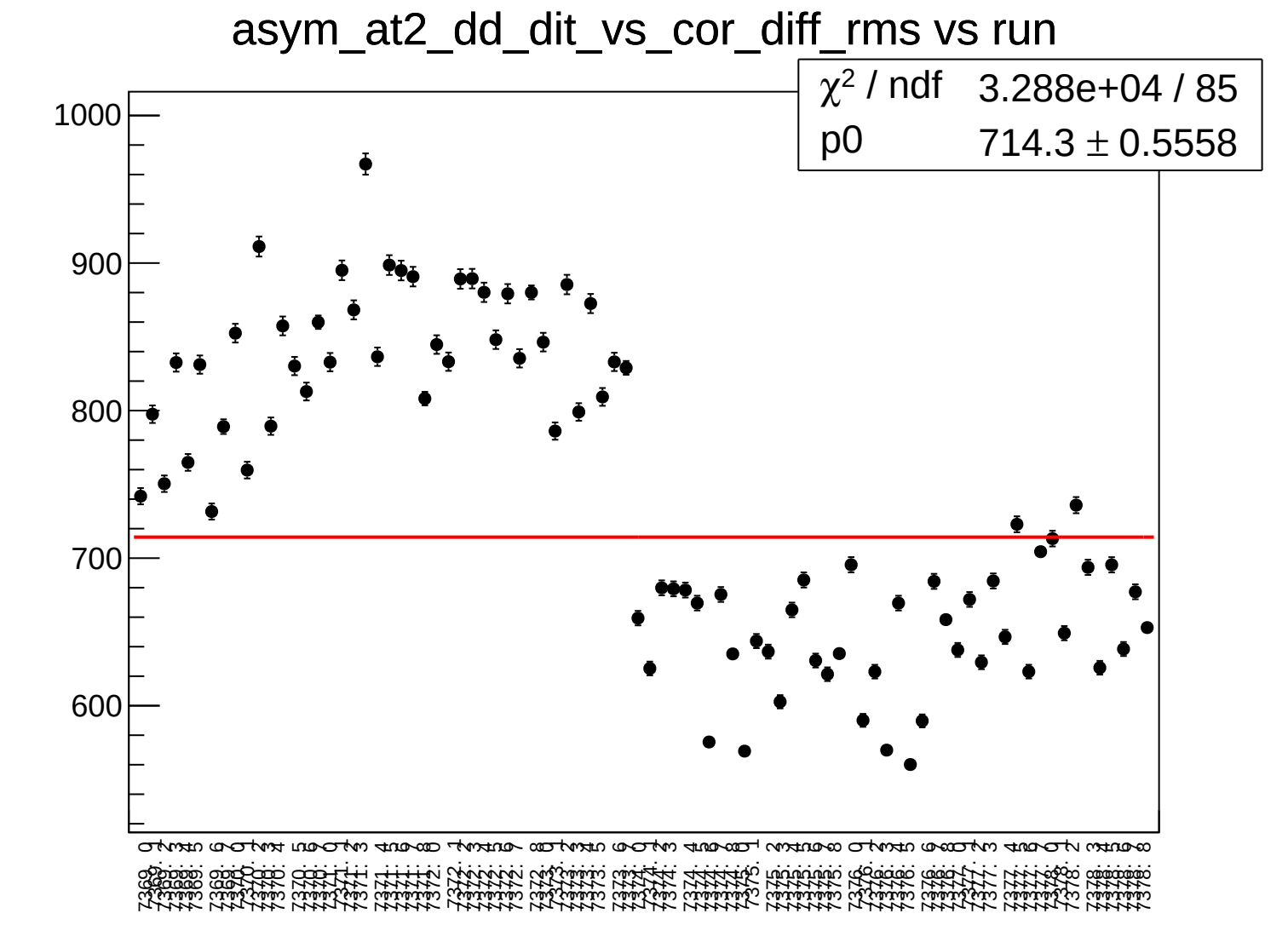

pull1D
Entries 86
Mean −0.01047
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

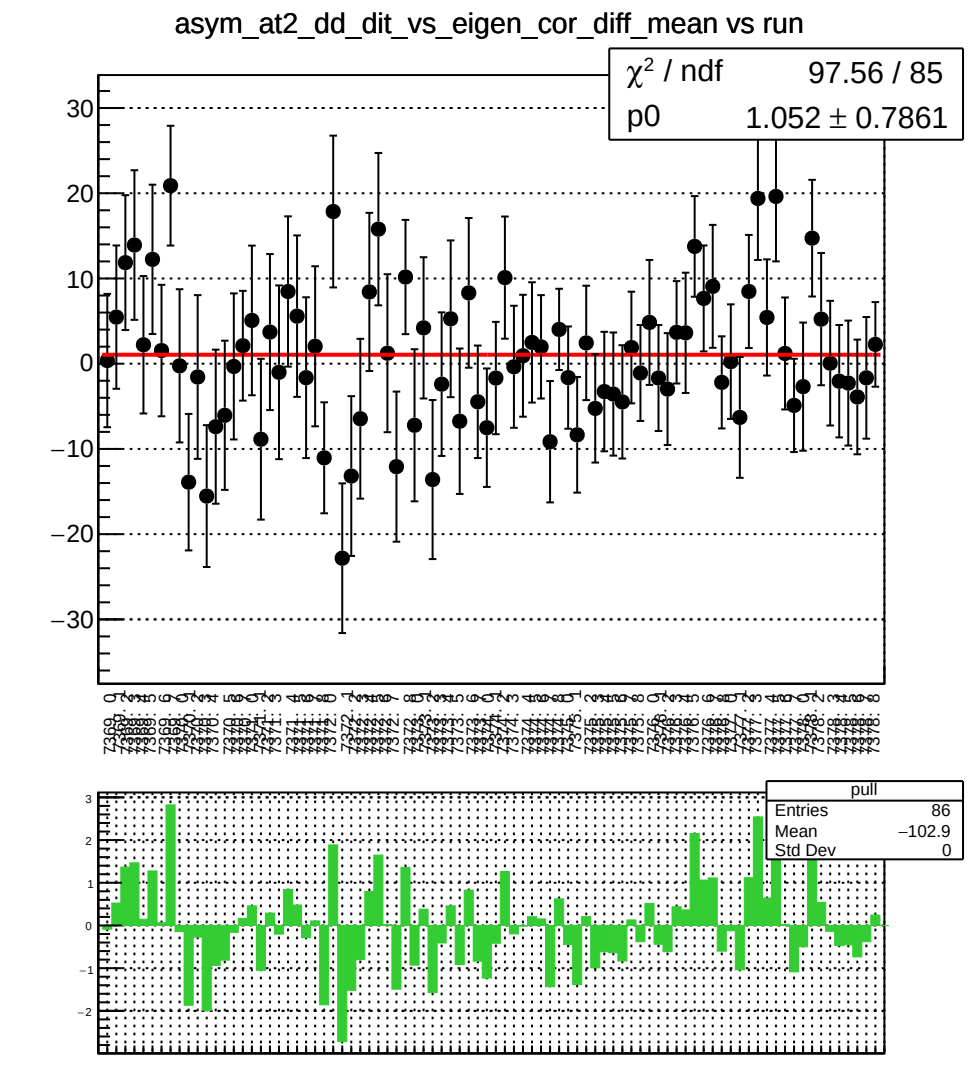

asym_at2_dd_rms vs run
χ² / ndf 176 / 85
p0 1713 ± 1.32
1760
1740
1720
1700
1680
1660

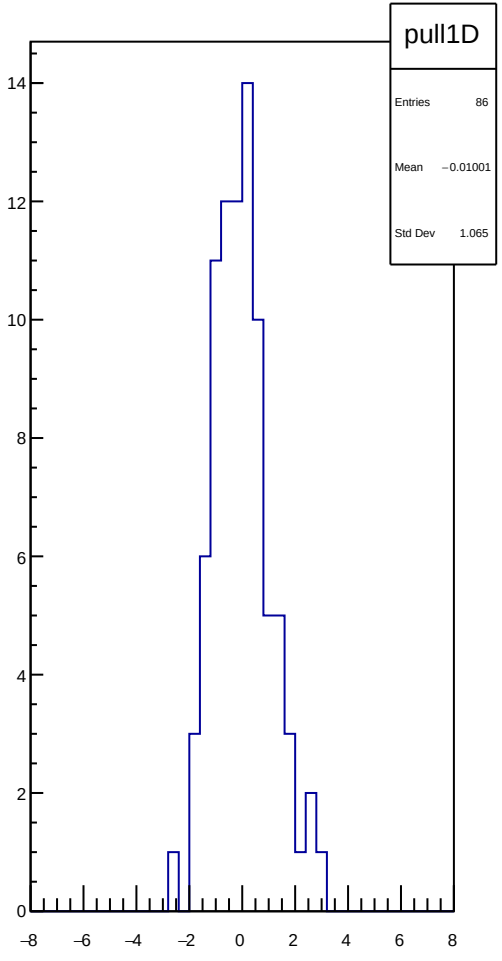

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.63 / 85
p0 4.076e−14 ± 2.549e−14
pull
Entries 86
Mean 45.8
Std Dev 25.62
pull1D
Entries 86
Mean 0.3009
Std Dev 0.9266

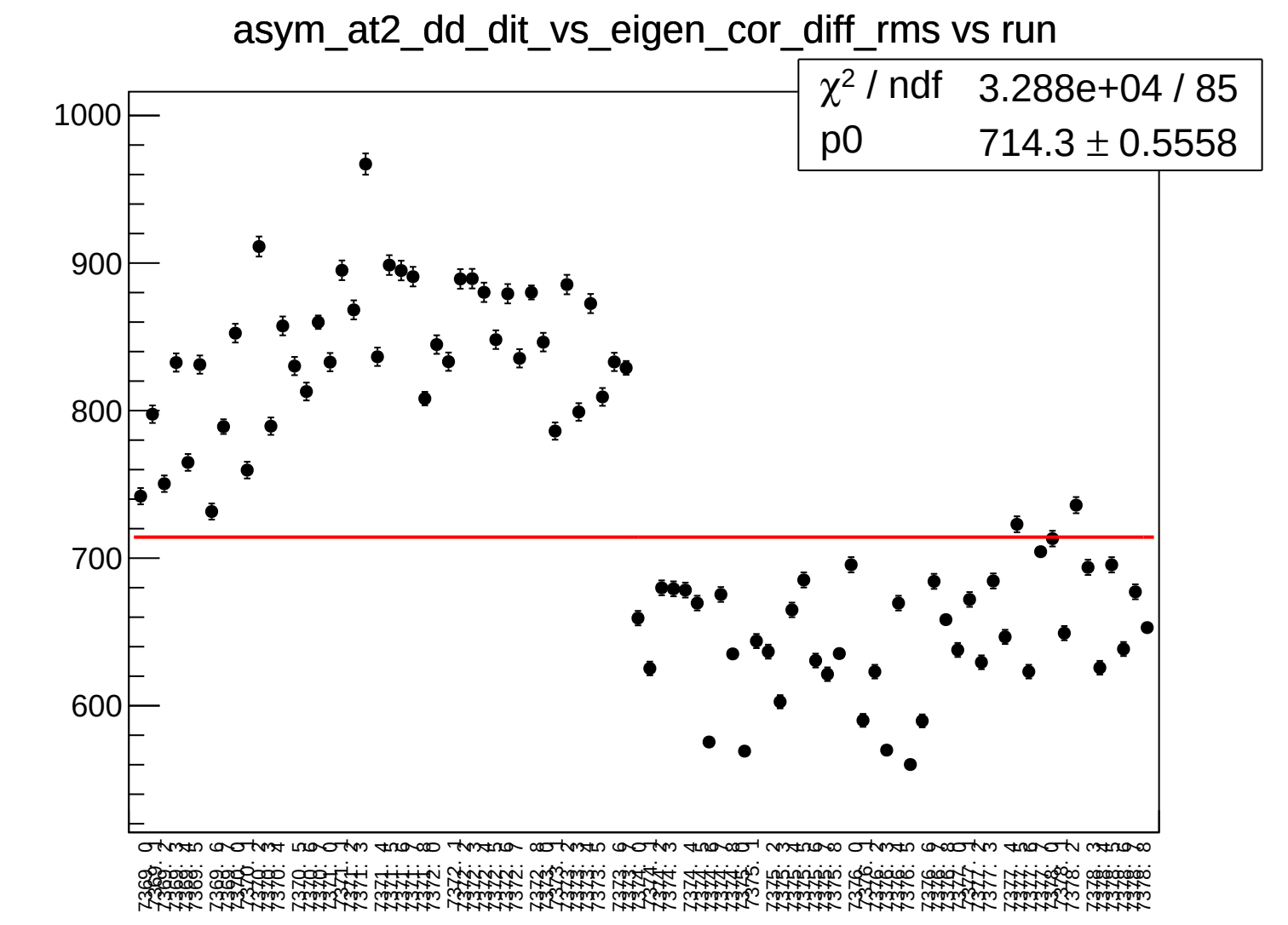

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.419e+06 / 85
p0 9.286e−12 ± 1.802e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

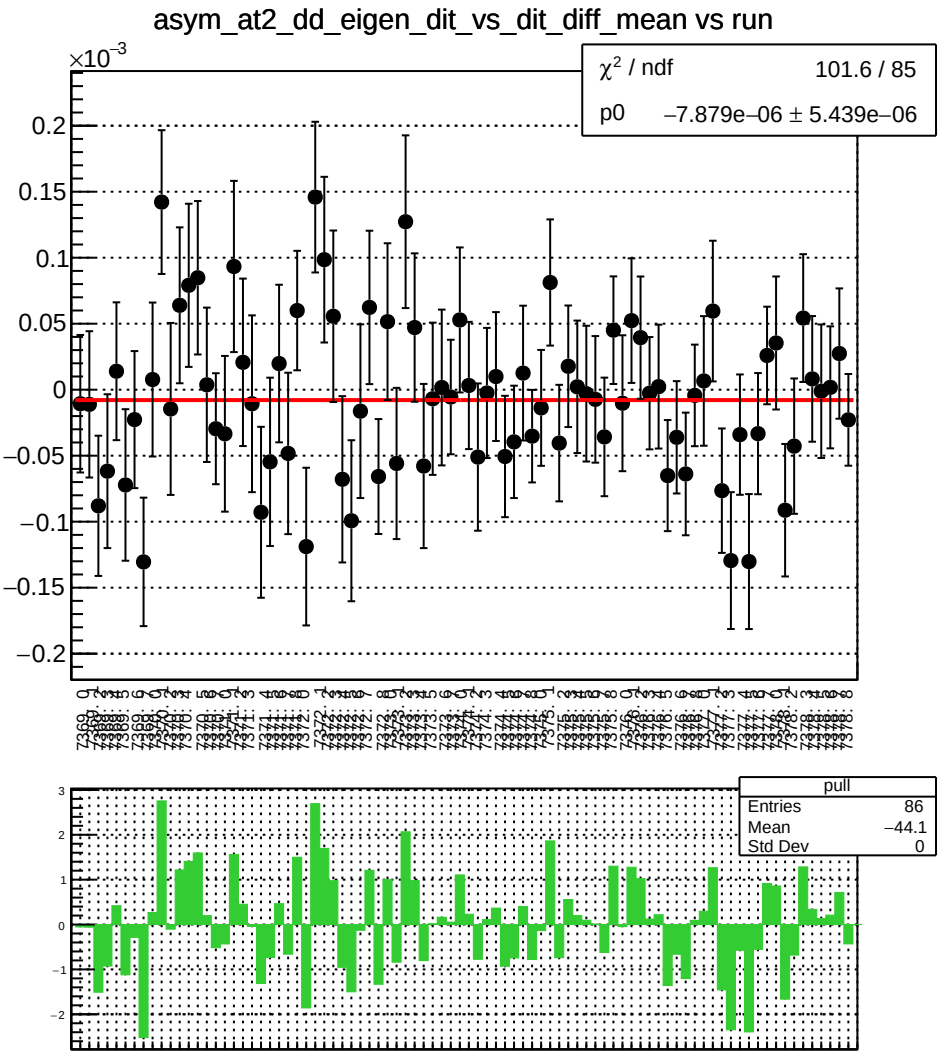

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.56 / 85
p0 1.052 ± 0.7861
pull
Entries 86
Mean −102.9
Std Dev 0
pull1D
Entries 86
Mean −0.01001
Std Dev 1.065

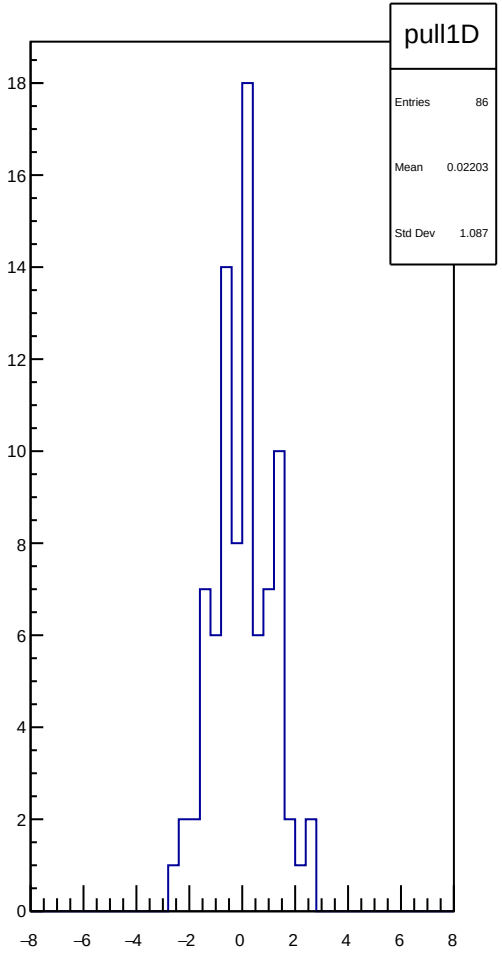

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.288e+04 / 85
p0 714.3 ± 0.5558
1000
900
800
700
600

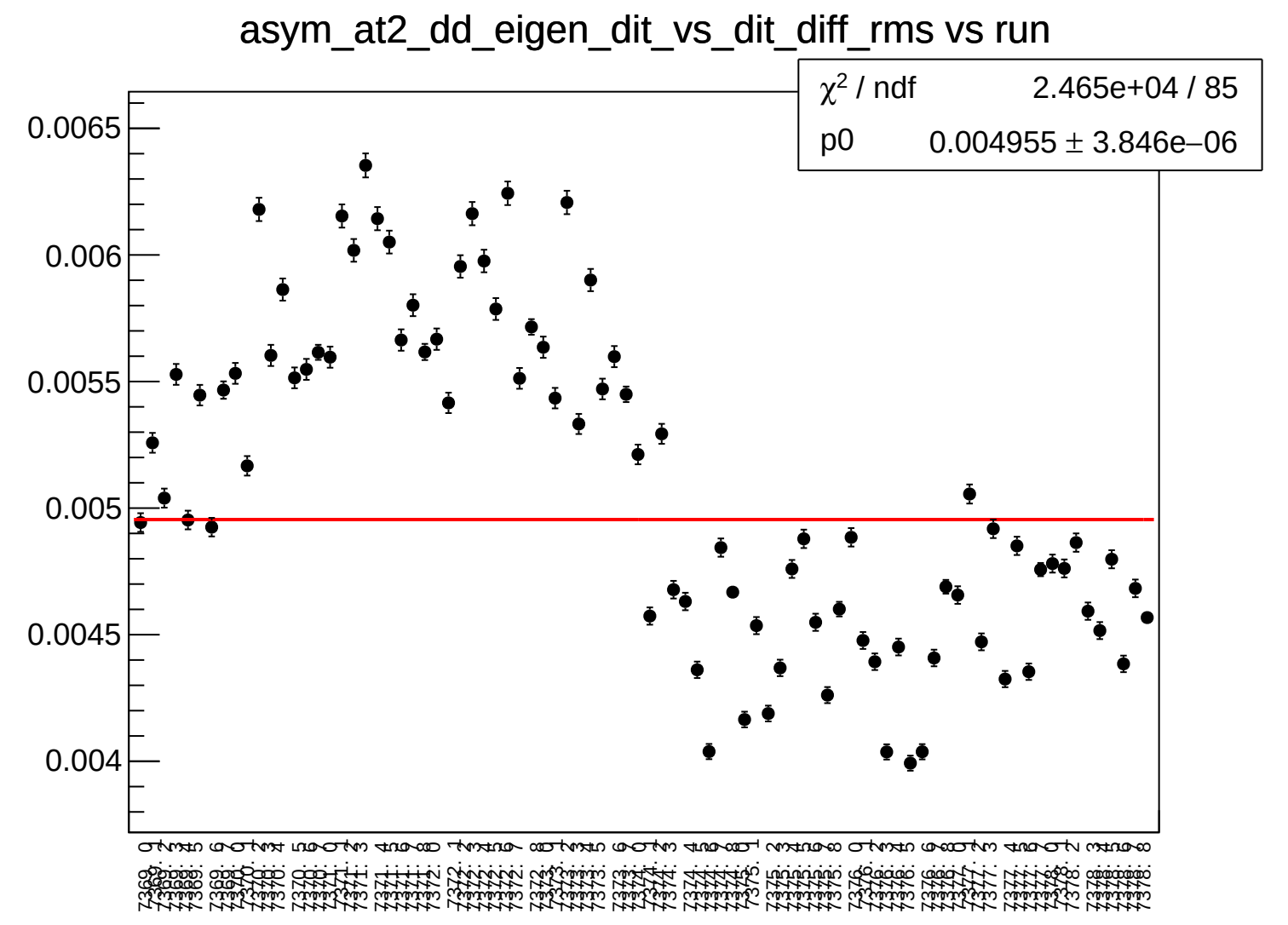

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.56 / 85
p0 1.052 ± 0.7861
pull
Entries 86
Mean −102.9
Std Dev 0

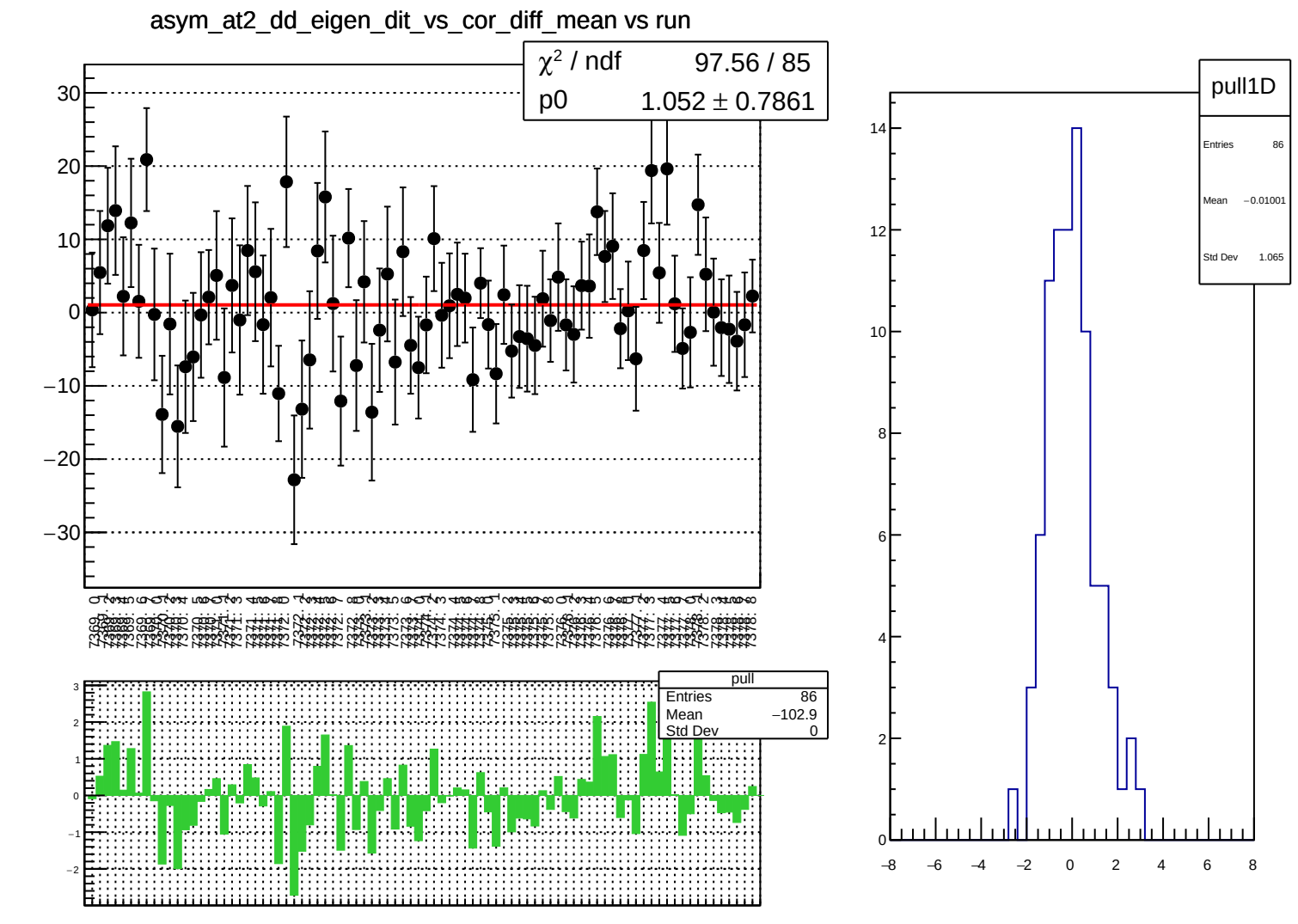

pull1D
Entries 86
Mean −0.01001
Std Dev 1.065

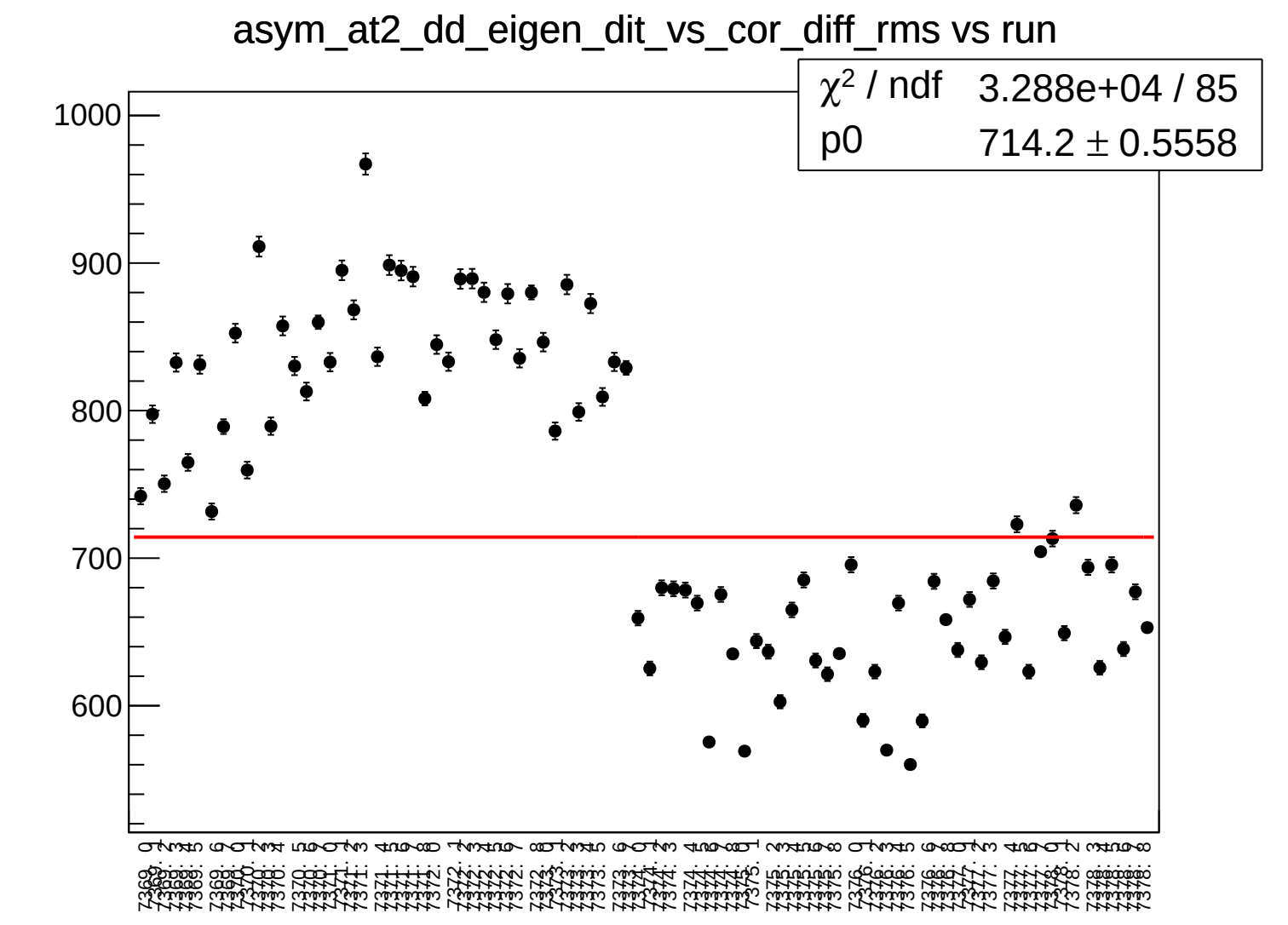

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.288e+04 / 85
p0 714.3 ± 0.5558
1000
900
800
700
600

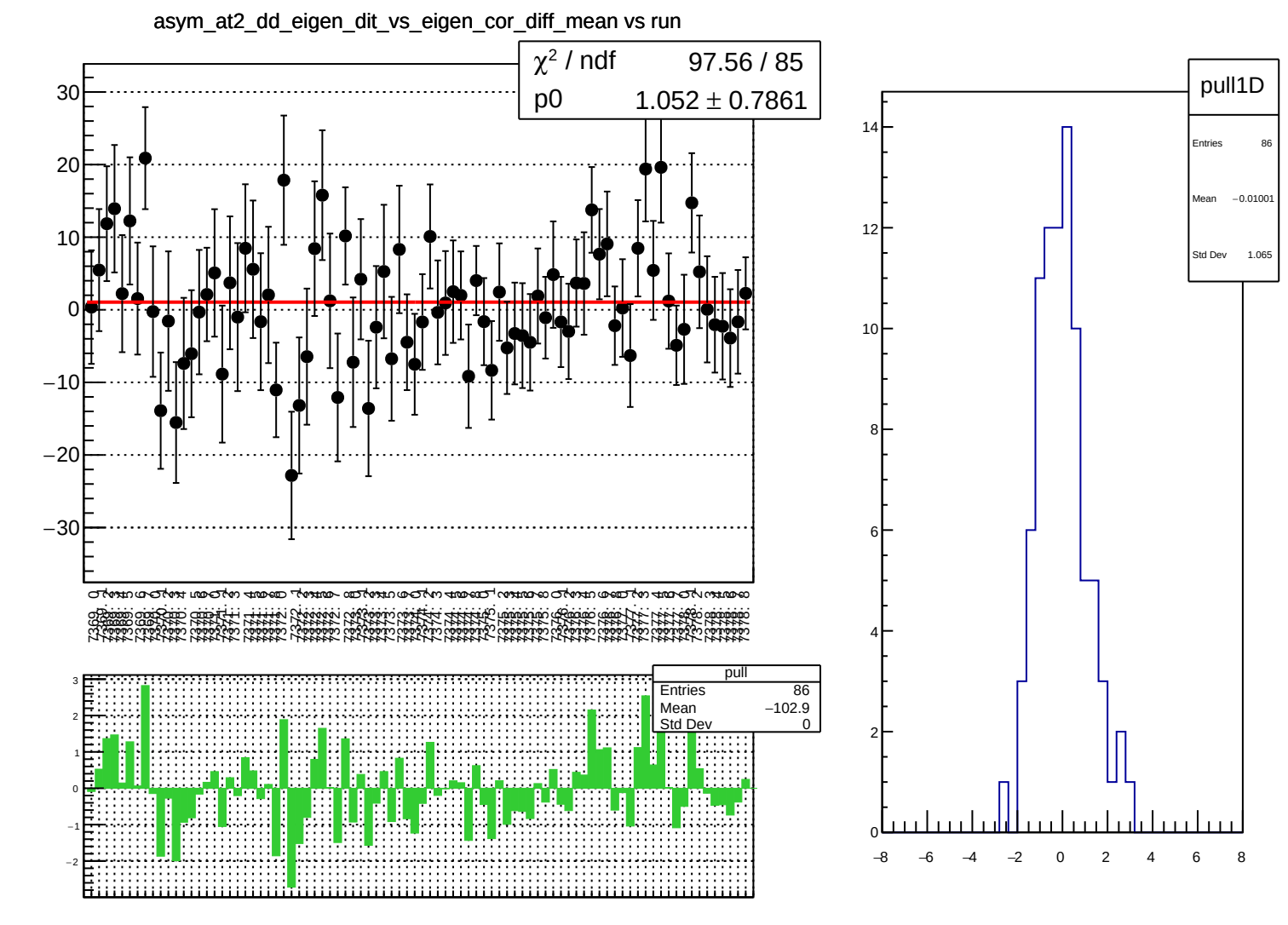

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.6 / 85
p0 −7.879e−06 ± 5.439e−06
pull
Entries 86
Mean −44.1
Std Dev 0

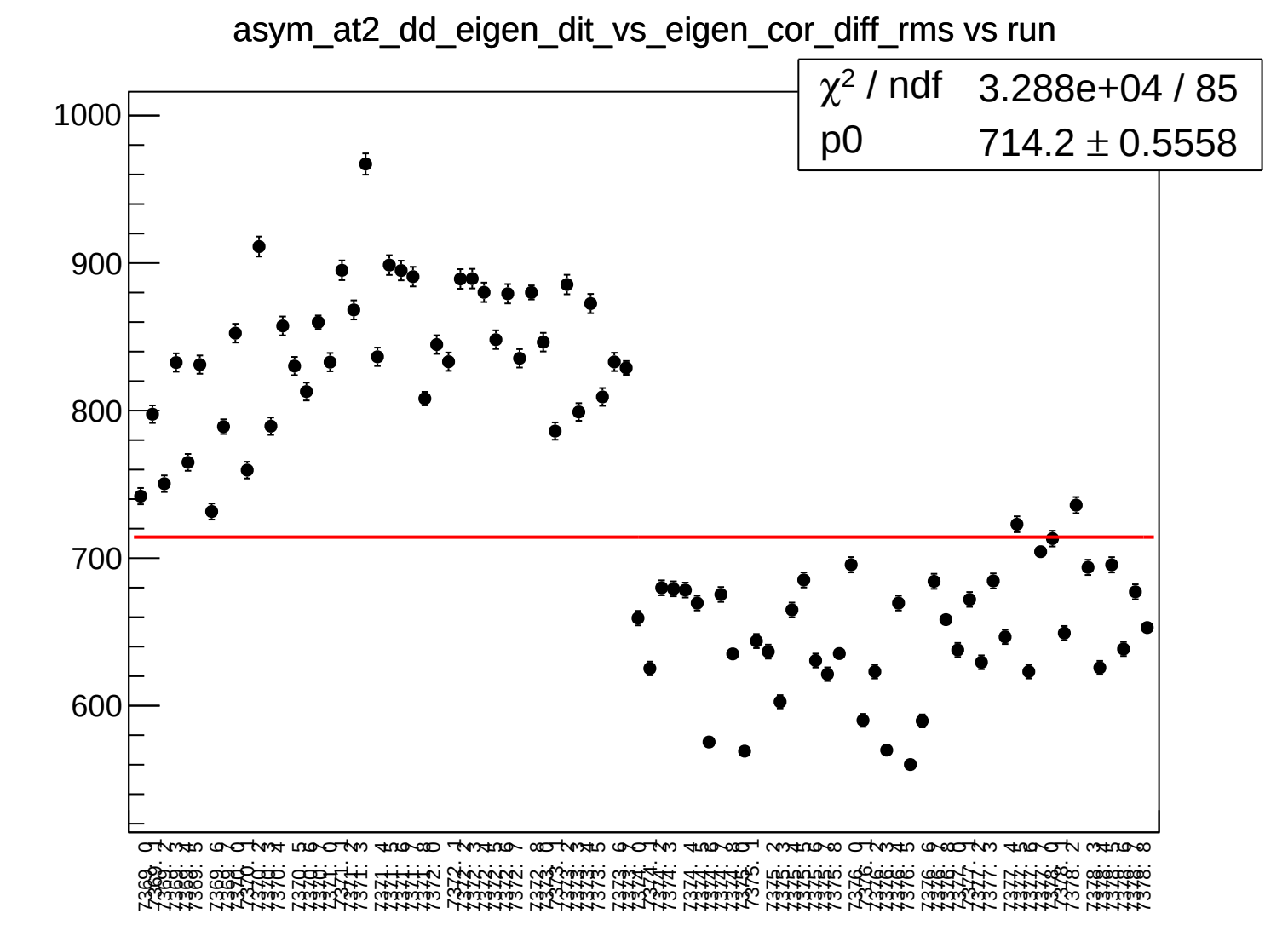

pull1D
Entries 86
Mean 0.02203
Std Dev 1.087

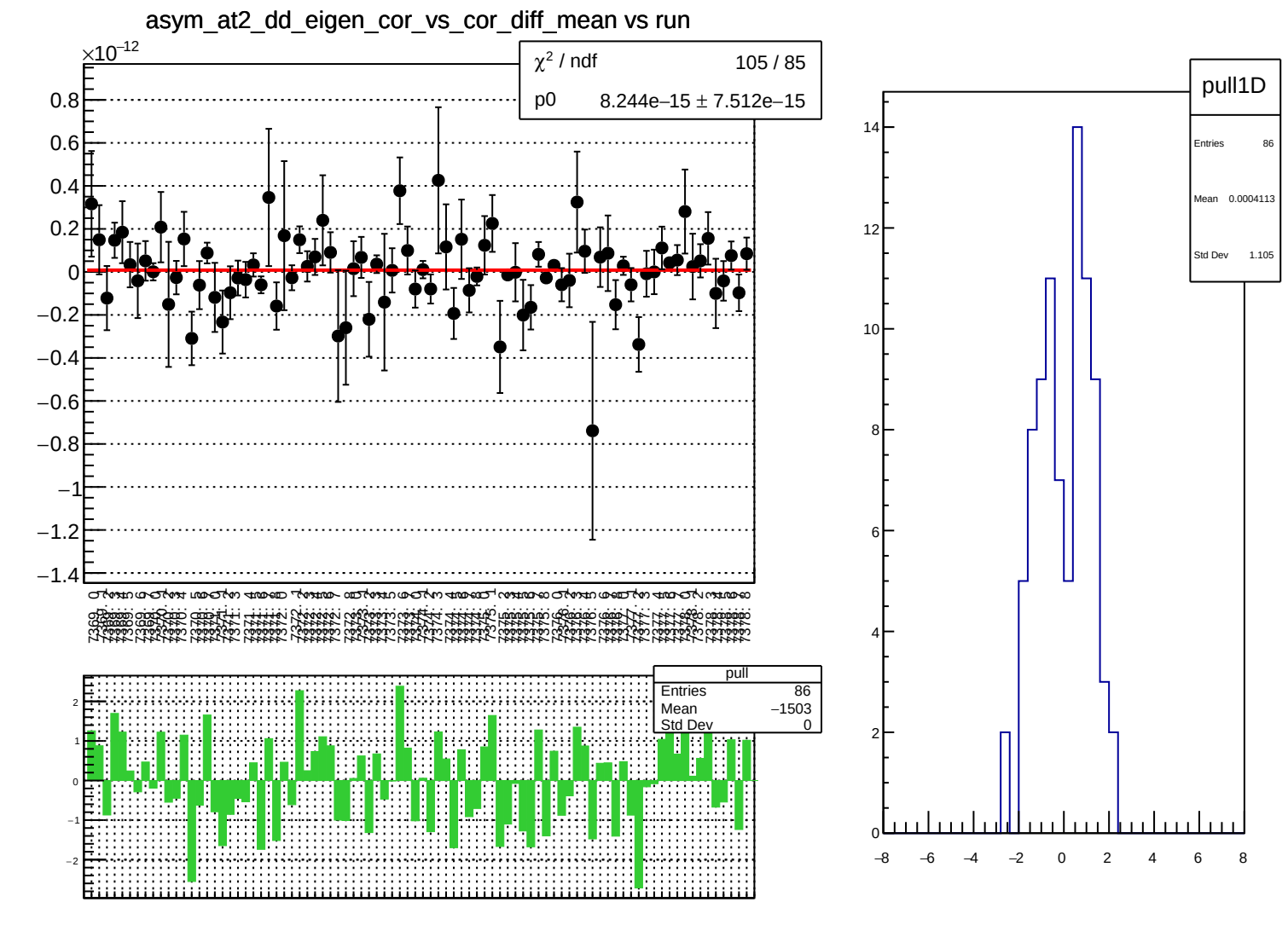

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.465e+04 / 85
p0 0.004955 ± 3.846e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004

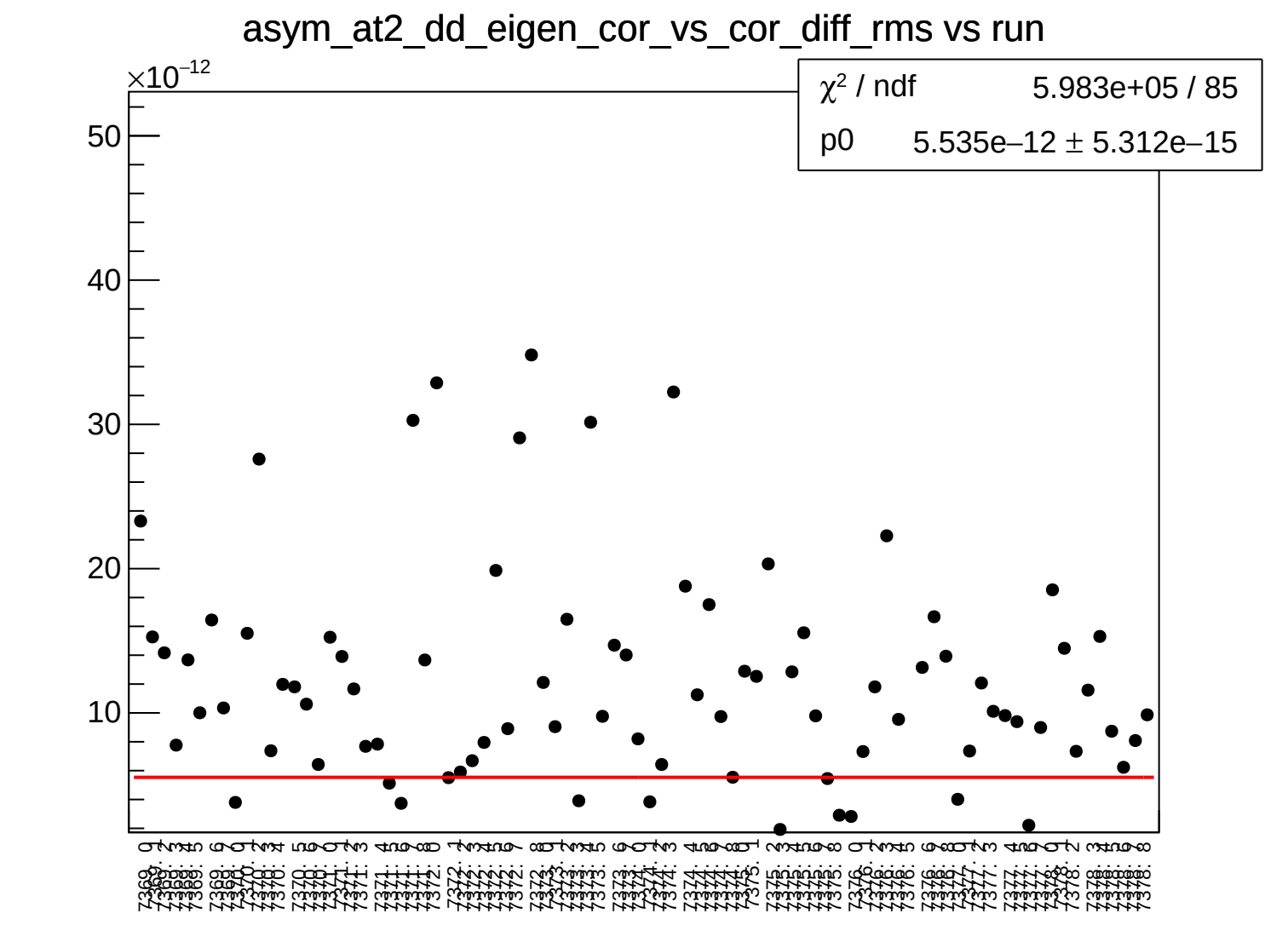

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.56 / 85
p0 1.052 ± 0.7861
pull
Entries 86
Mean −102.9
Std Dev 0
pull1D
Entries 86
Mean −0.01001
Std Dev 1.065

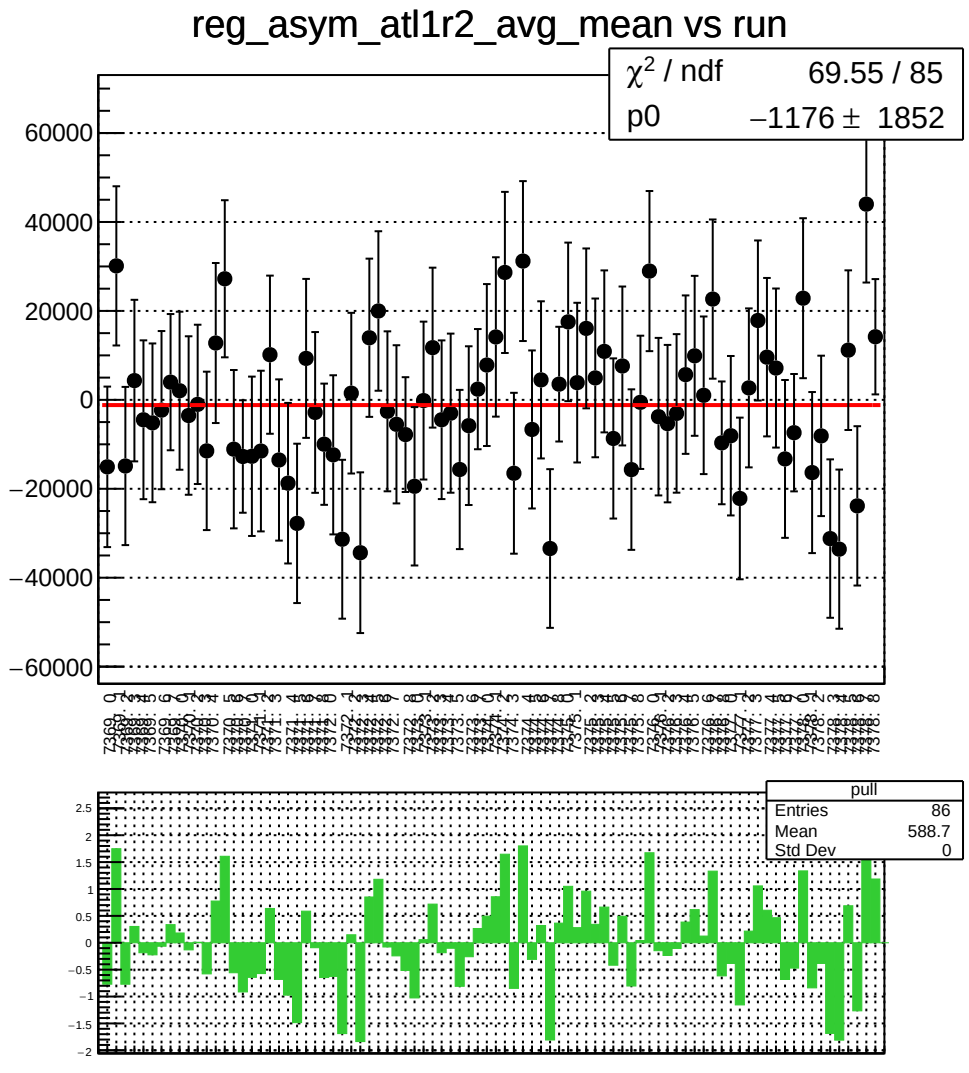

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.288e+04 / 85
p0 714.2 ± 0.5558
1000
900
800
700
600

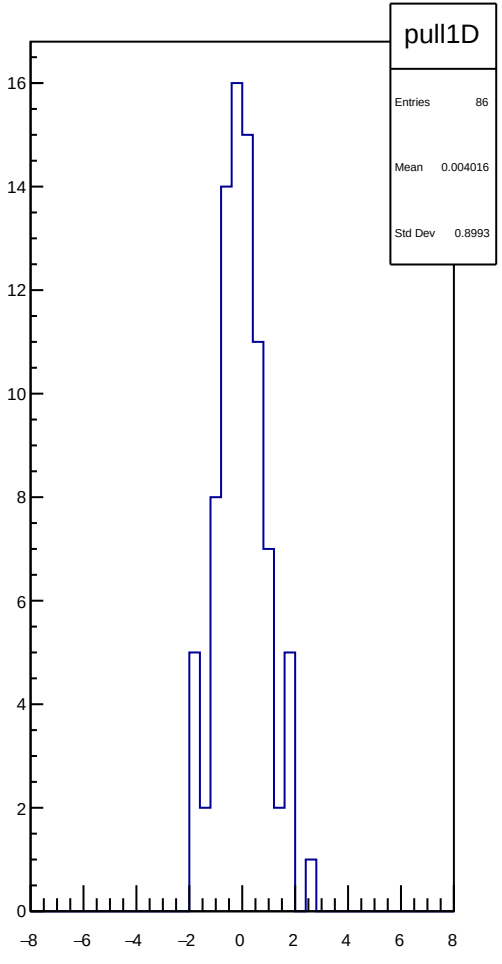

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.56 / 85
p0 1.052 ± 0.7861
pull
Entries 86
Mean −102.9
Std Dev 0
pull1D
Entries 86
Mean −0.01001
Std Dev 1.065

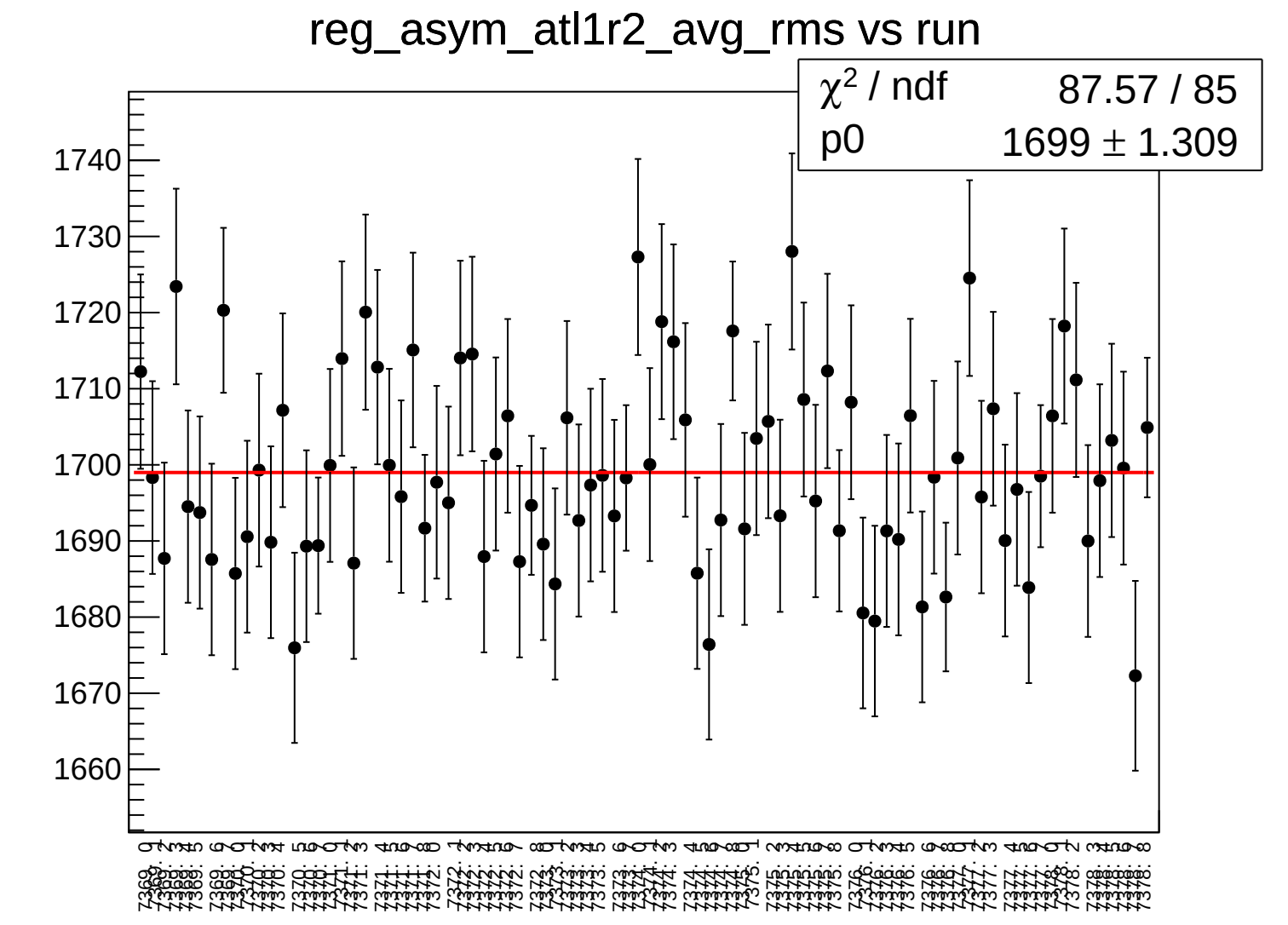

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.288e+04 / 85
p0 714.2 ± 0.5558
1000
900
800
700
600

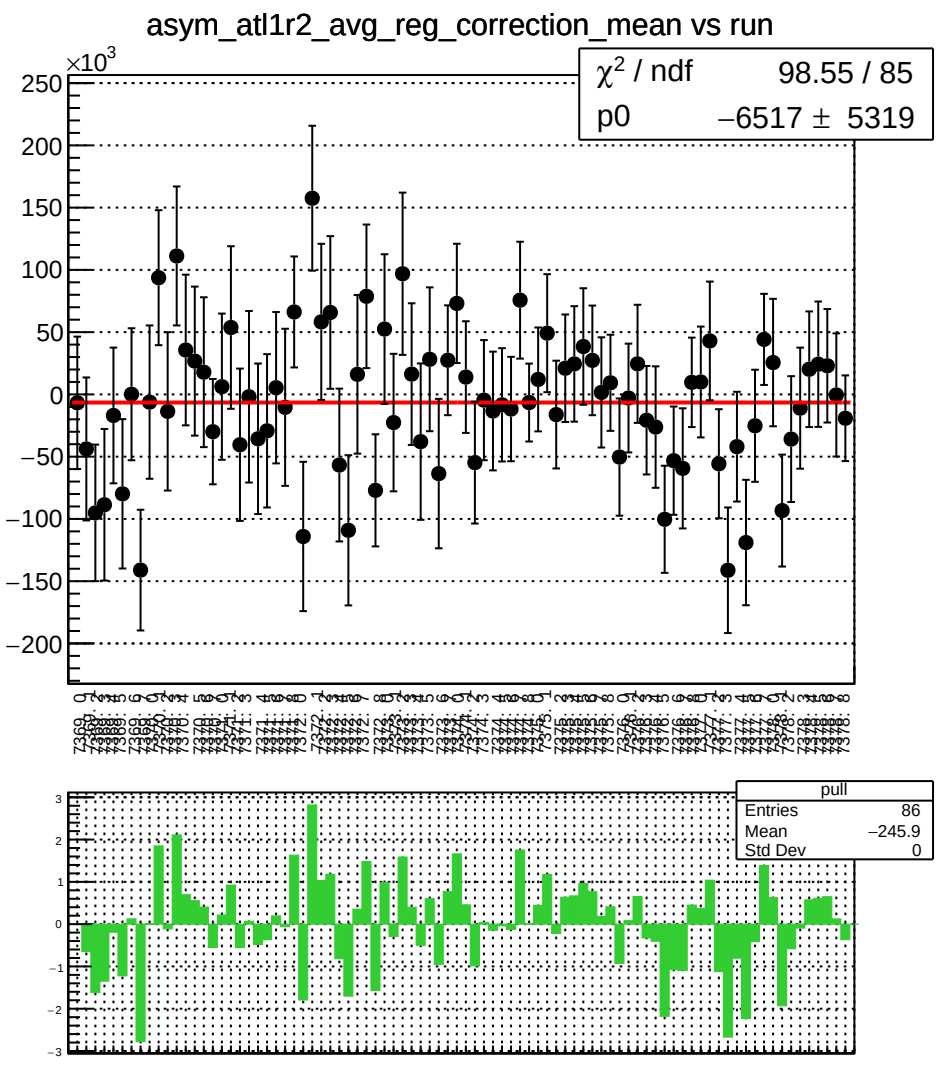

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105 / 85
p0 8.244e−15 ± 7.512e−15
pull
Entries 86
Mean −1503
Std Dev 0
pull1D
Entries 86
Mean 0.0004113
Std Dev 1.105

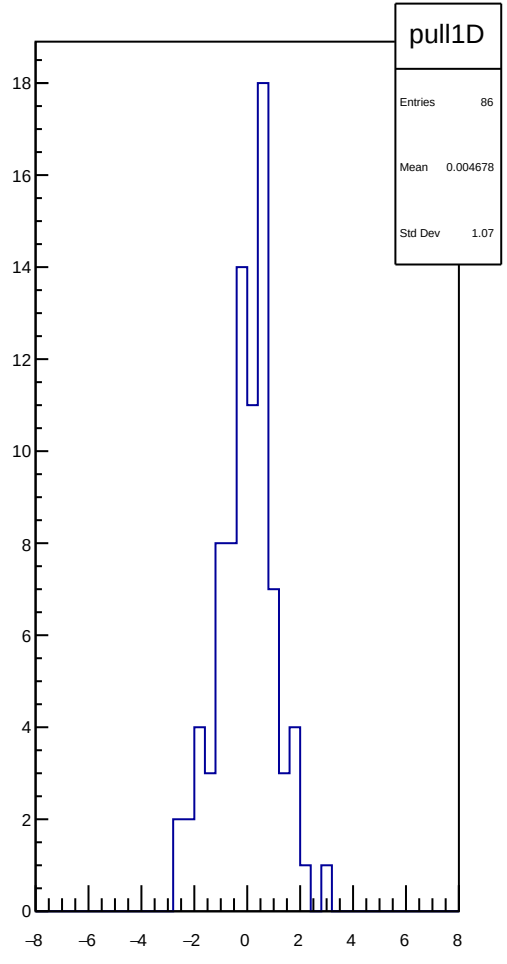

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.983e+05 / 85
p0 5.535e−12 ± 5.312e−15
50
40
30
20
10

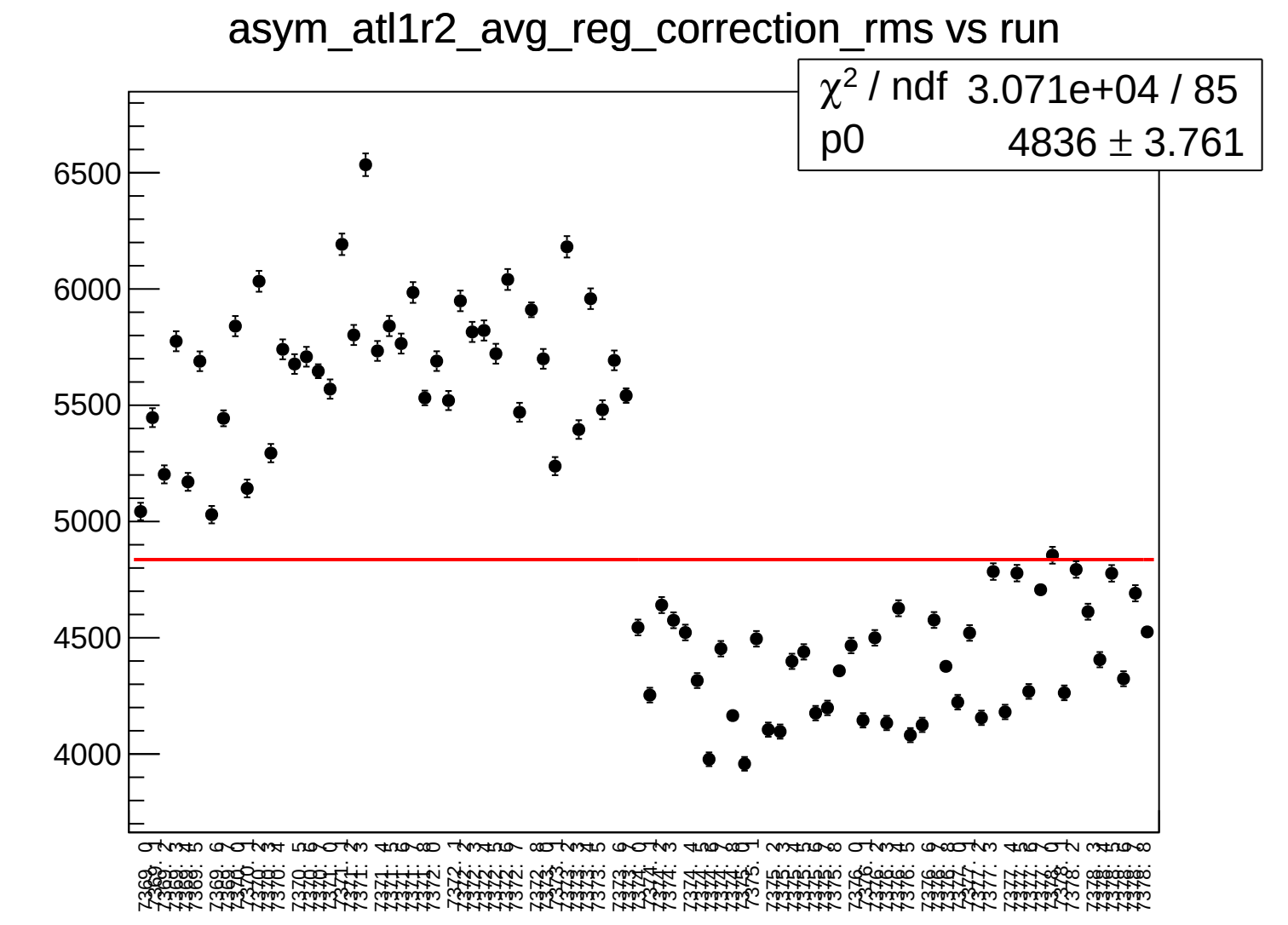

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 69.55 / 85
p0 −1176 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 588.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

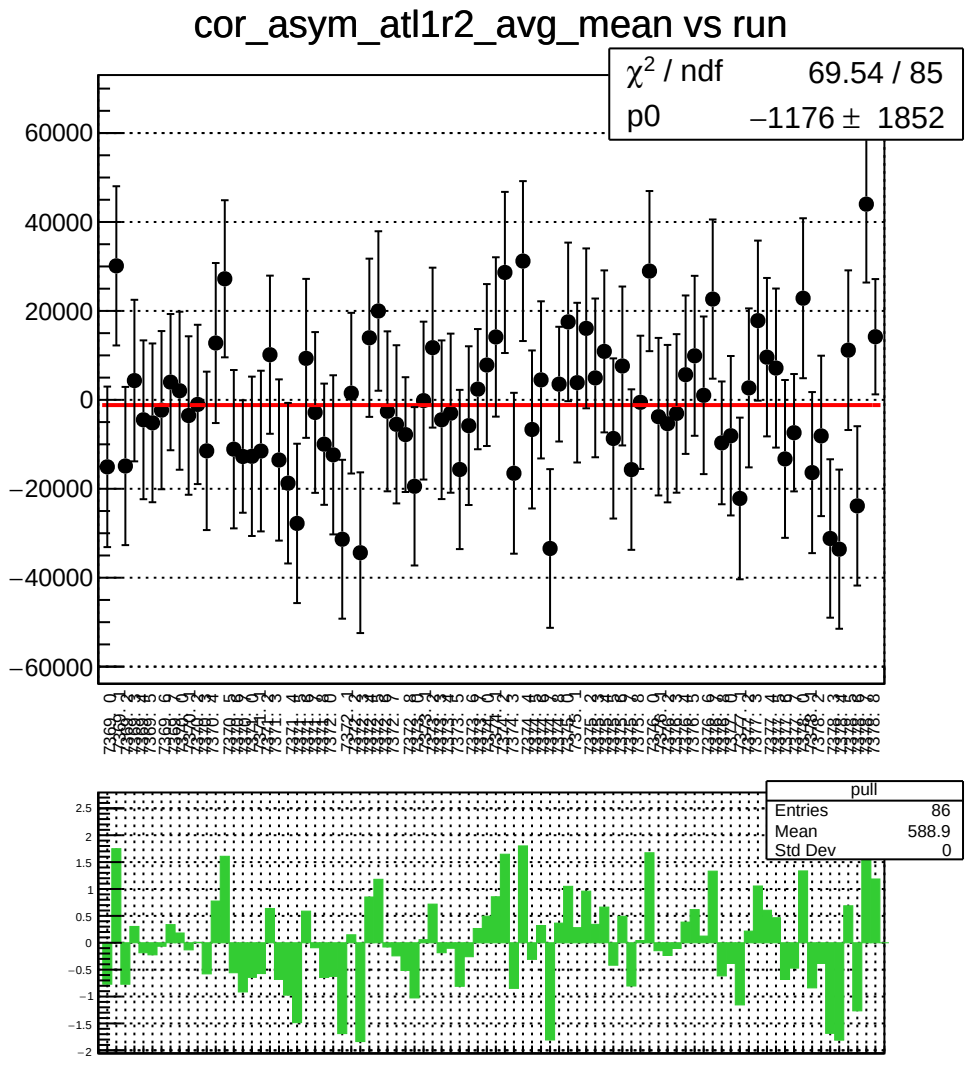

pull1D
Entries 86
Mean 0.004016
Std Dev 0.8993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

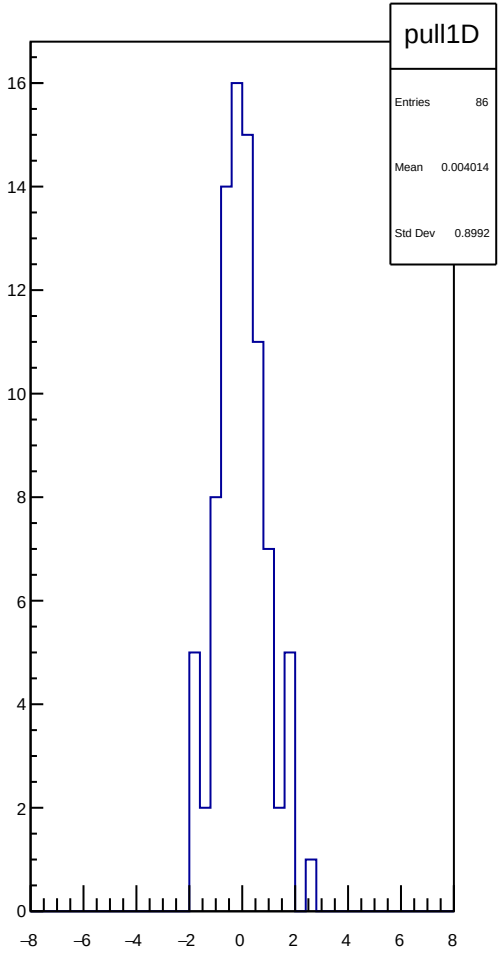

reg_asym_atl1r2_avg_rms vs run
χ^2 / ndf 87.57 / 85
p0 1699 ± 1.309
1740
1730
1720
1710
1700
1690
1680
1670
1660

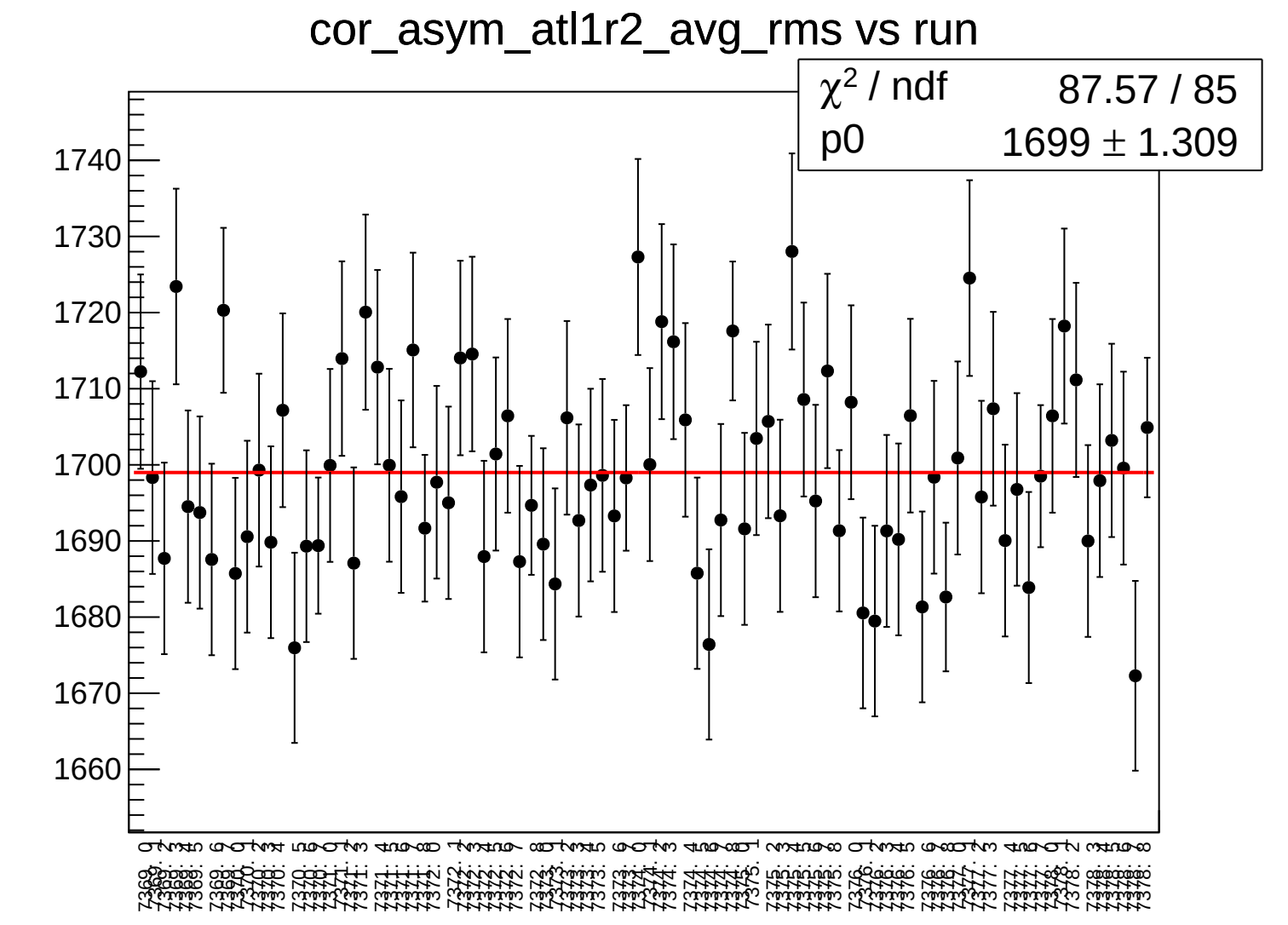

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 98.55 / 85
p0 −6517 ± 5319
pull
Entries 86
Mean −245.9
Std Dev 0

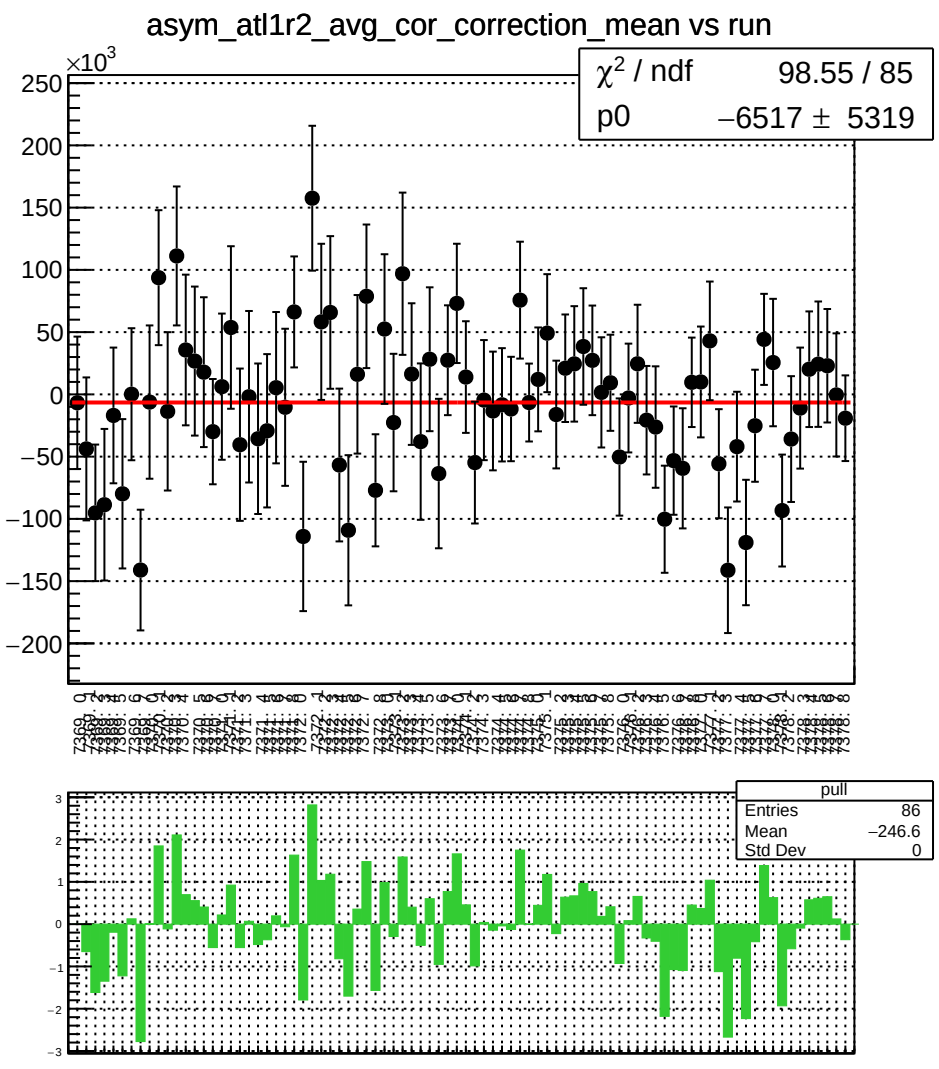

pull1D
Entries 86
Mean 0.004678
Std Dev 1.07

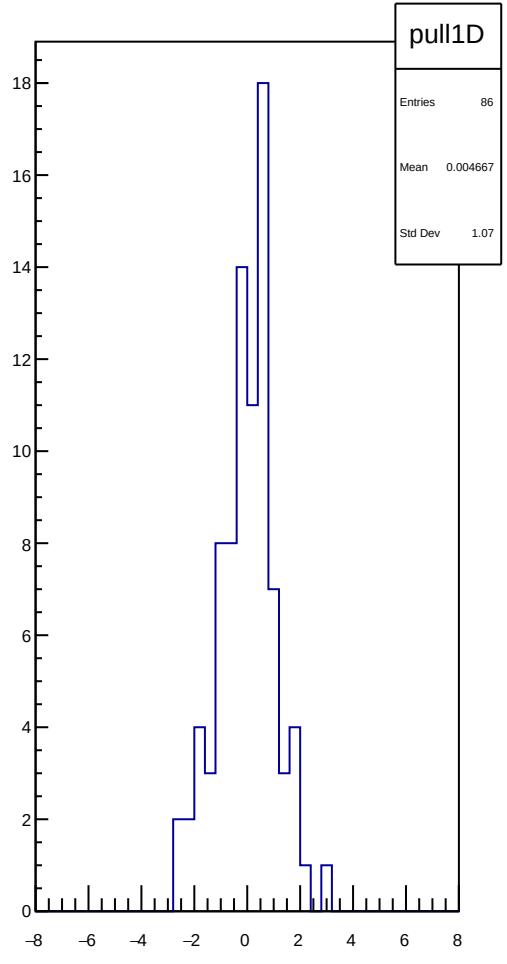

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 3.071e+04 / 85
p0 4836 ± 3.761
6500
6000
5500
5000
4500
4000

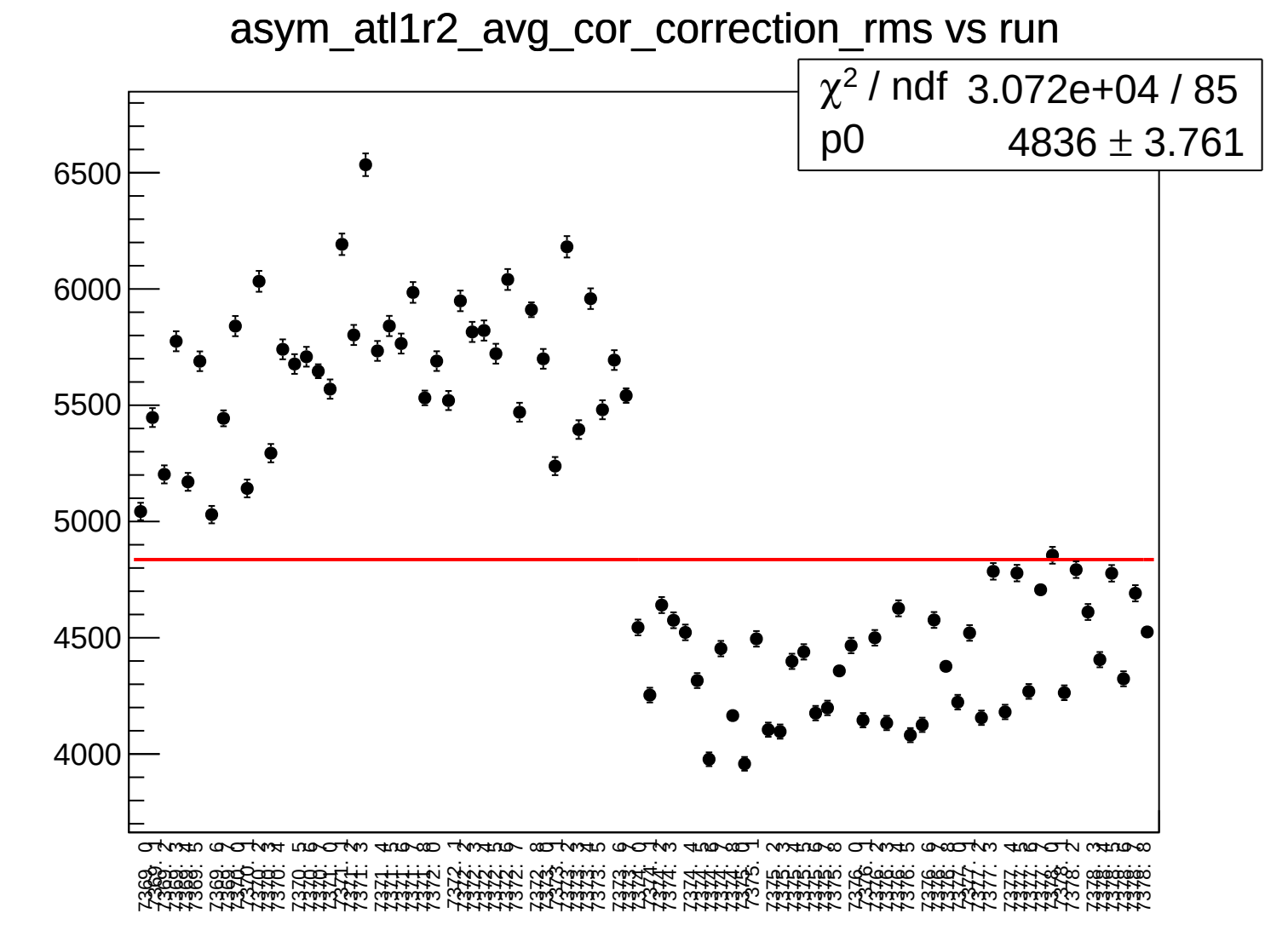

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 69.54 / 85
p0 −1176 ± 1852
pull
Entries 86
Mean 588.9
Std Dev 0

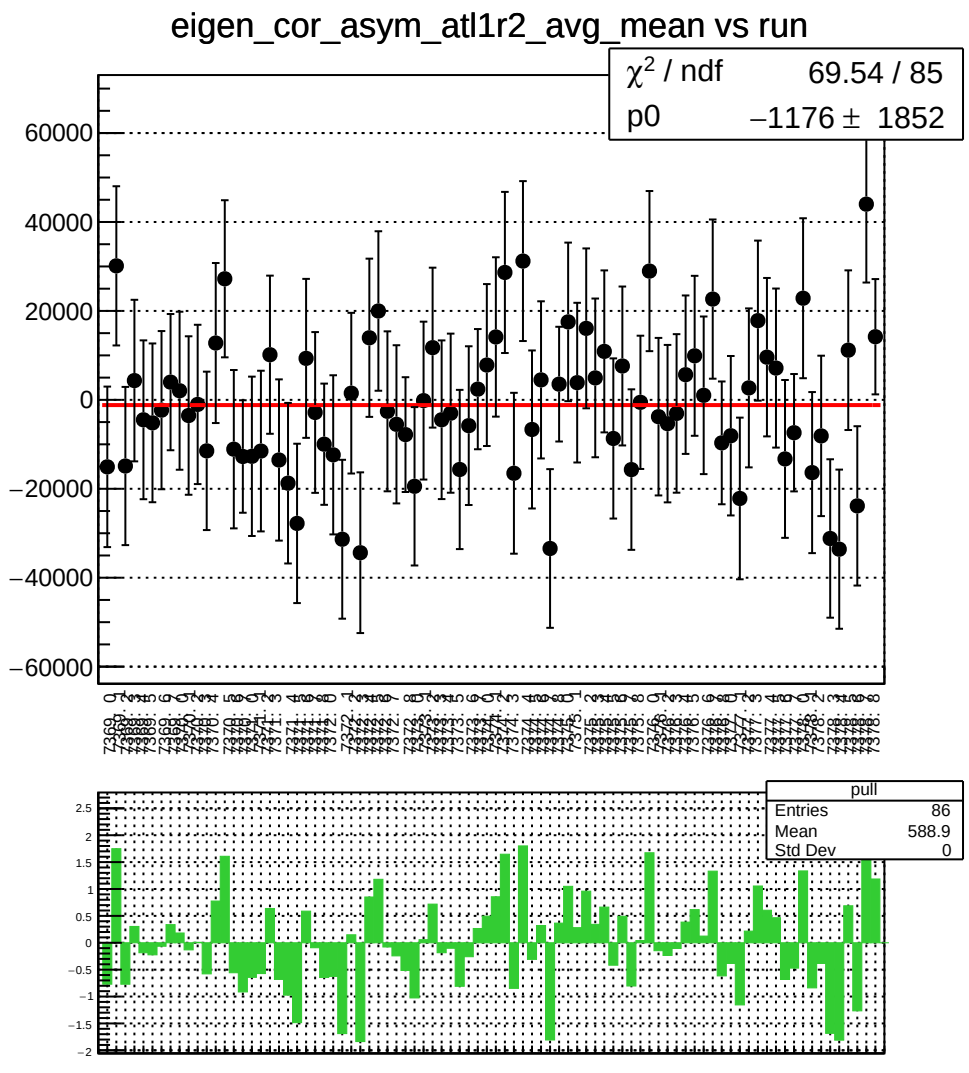

pull1D
Entries 86
Mean 0.004014
Std Dev 0.8992

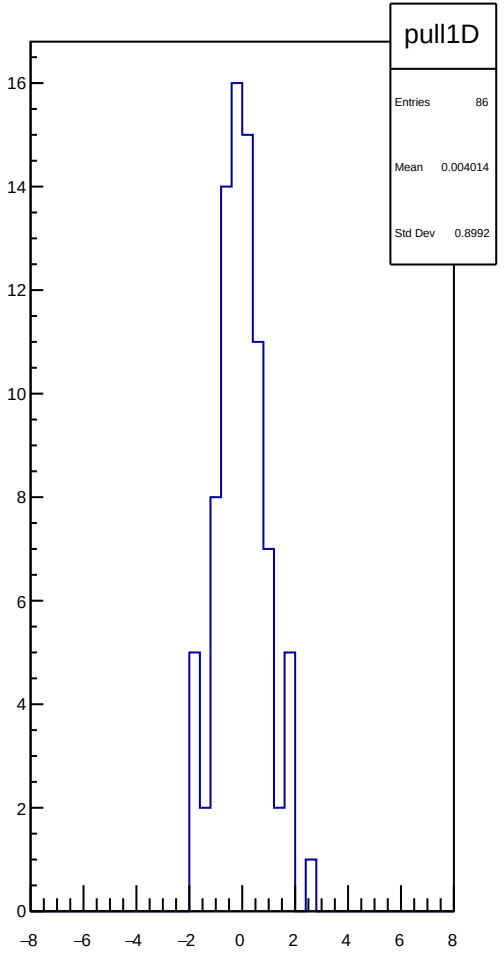

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 87.57 / 85
p0 1699 ± 1.309
1740
1730
1720
1710
1700
1690
1680
1670
1660

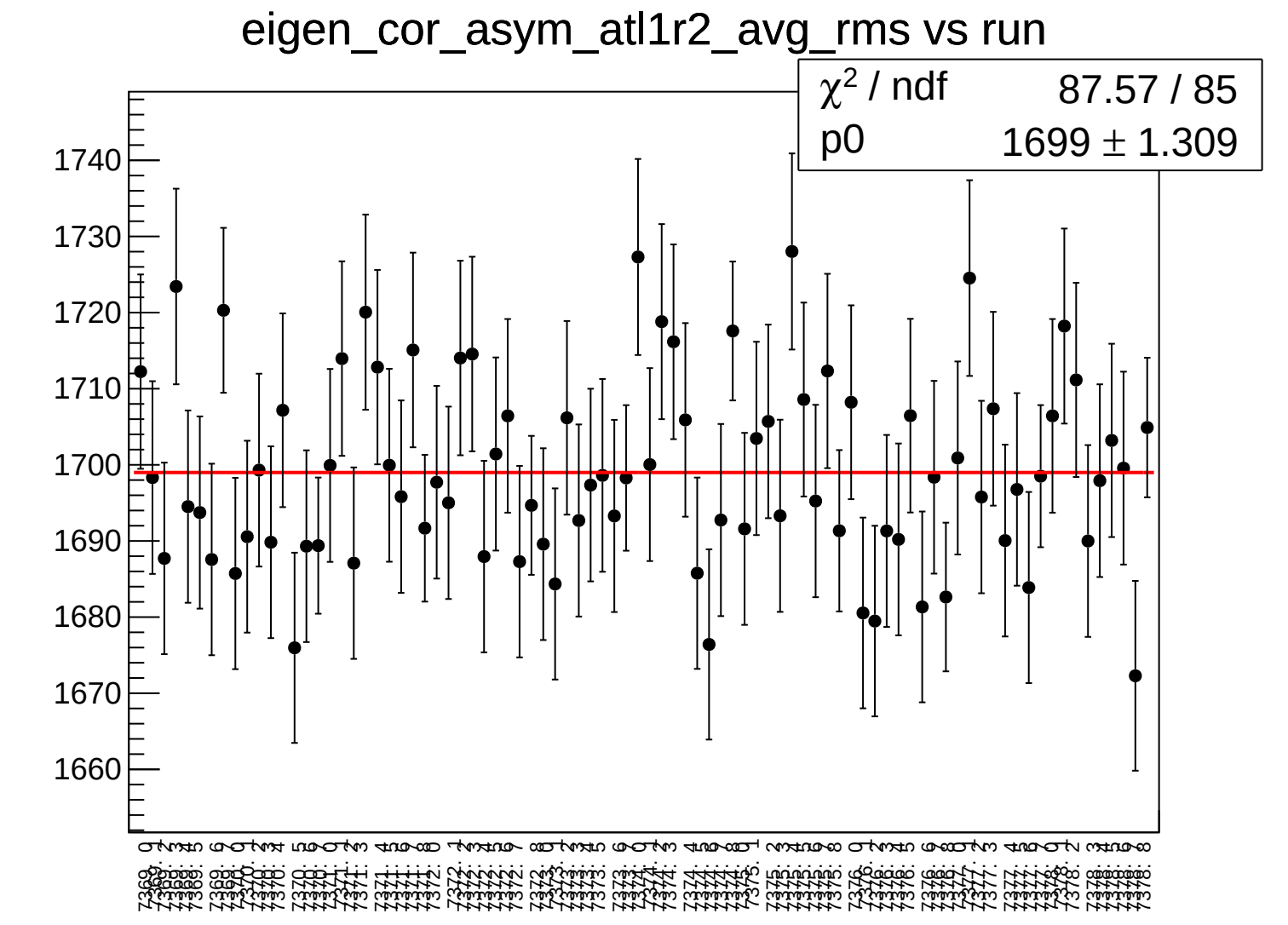

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 98.55 / 85
p0 −6517 ± 5319
pull
Entries 86
Mean −246.6
Std Dev 0

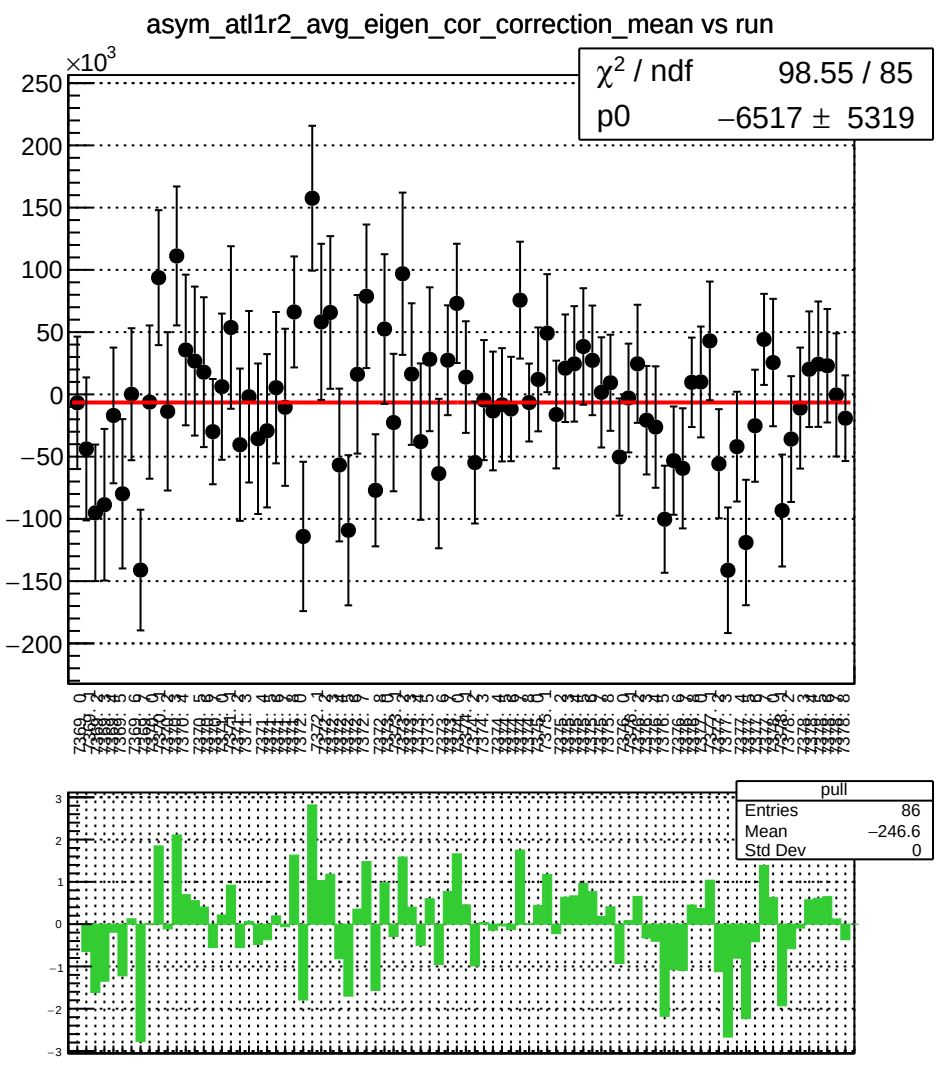

pull1D
Entries 86
Mean 0.004667
Std Dev 1.07

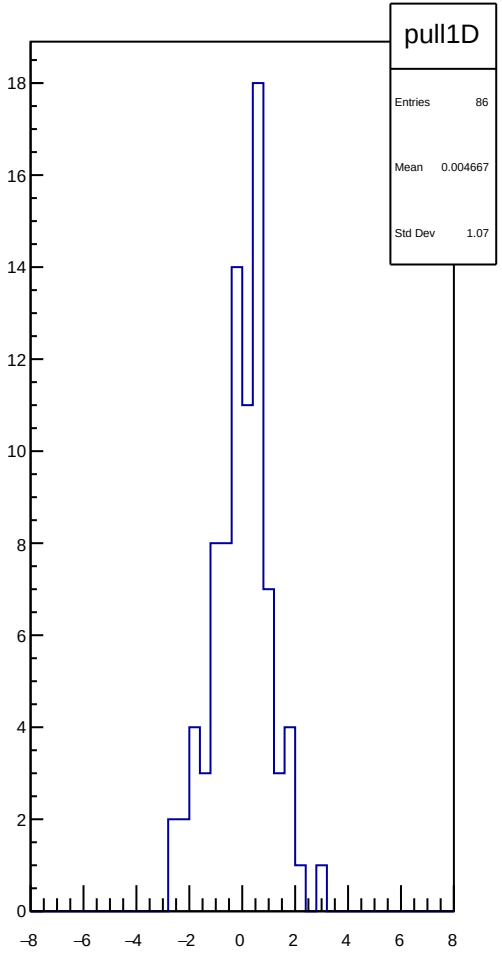

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 3.072e+04 / 85
p0 4836 ± 3.761
6500
6000
5500
5000
4500
4000

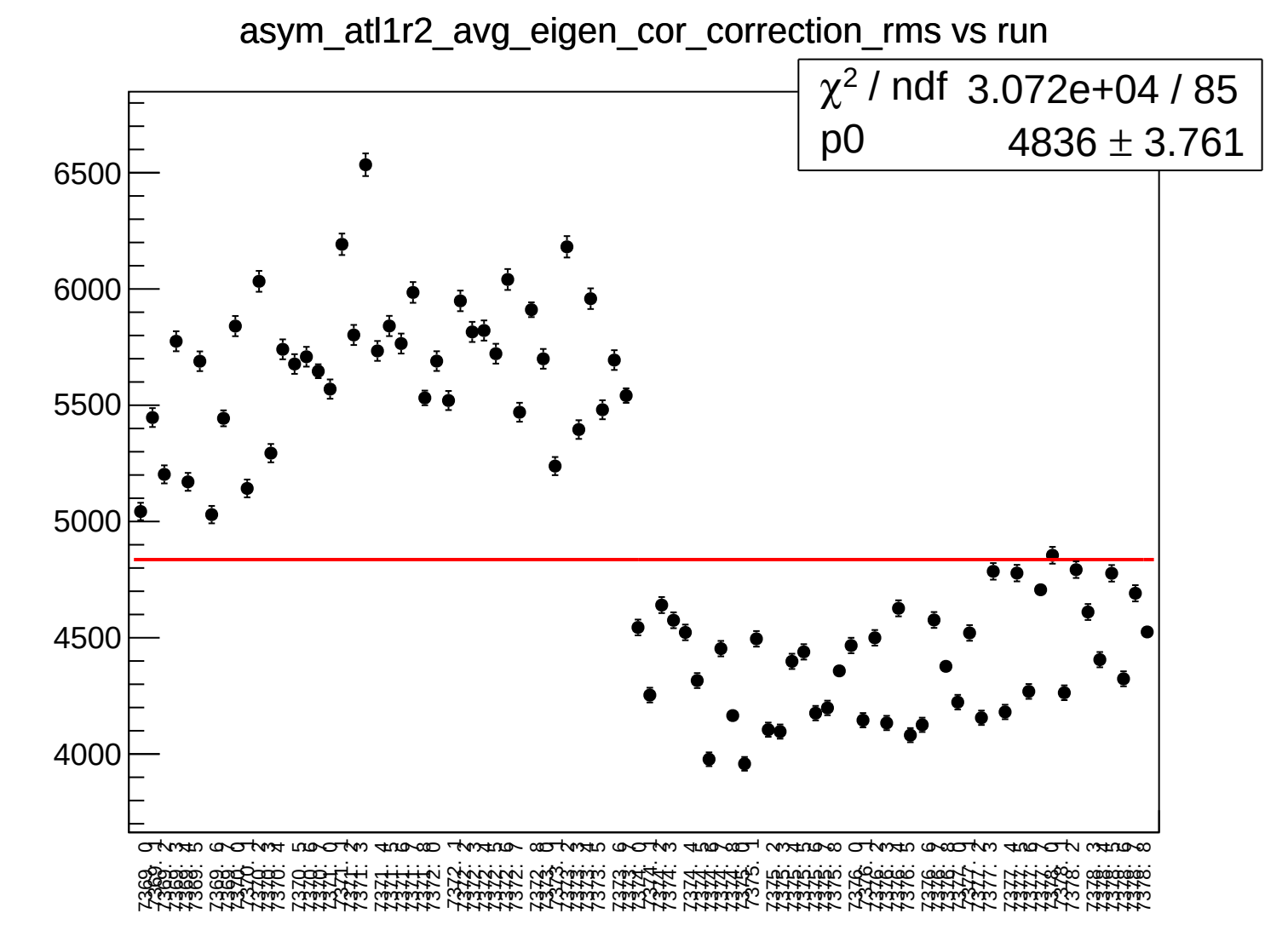

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 69.54 / 85
p0 −1176 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 588.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

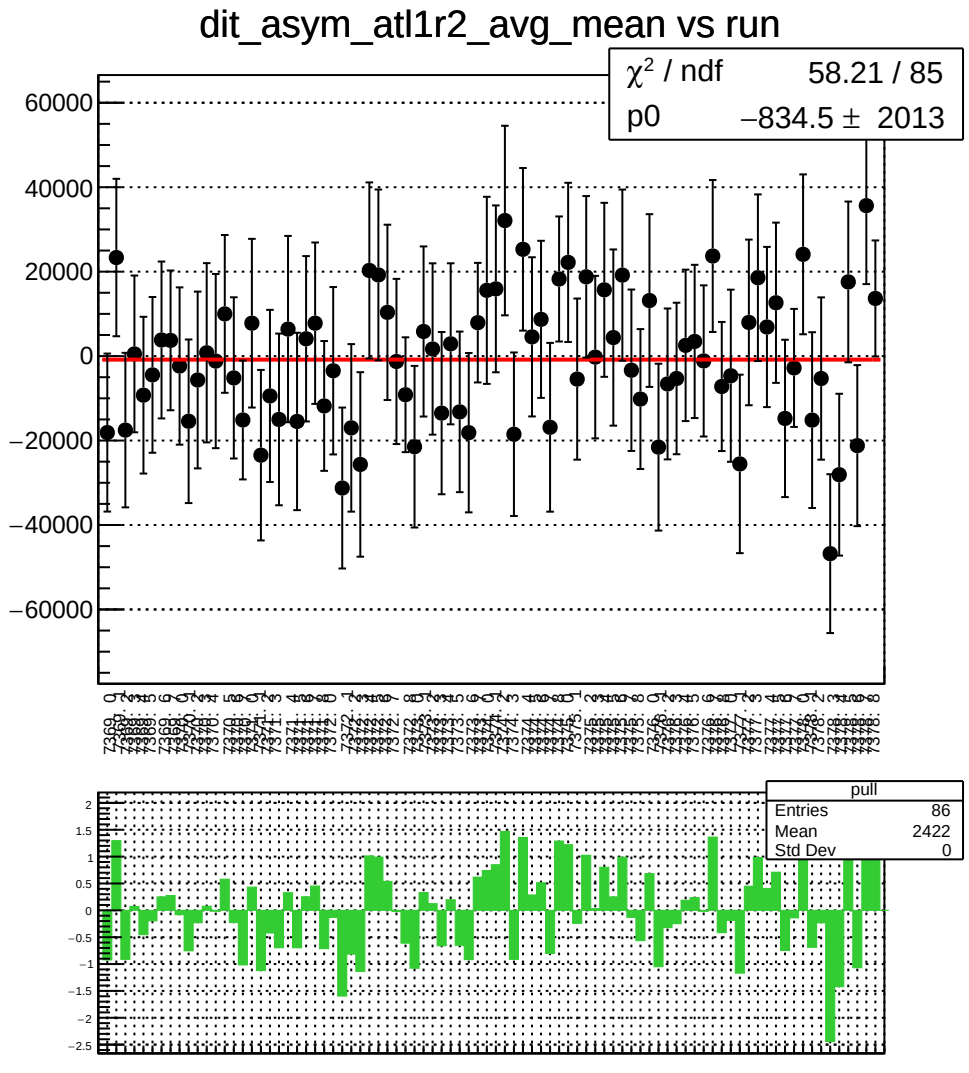

pull1D
Entries 86
Mean 0.004014
Std Dev 0.8992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

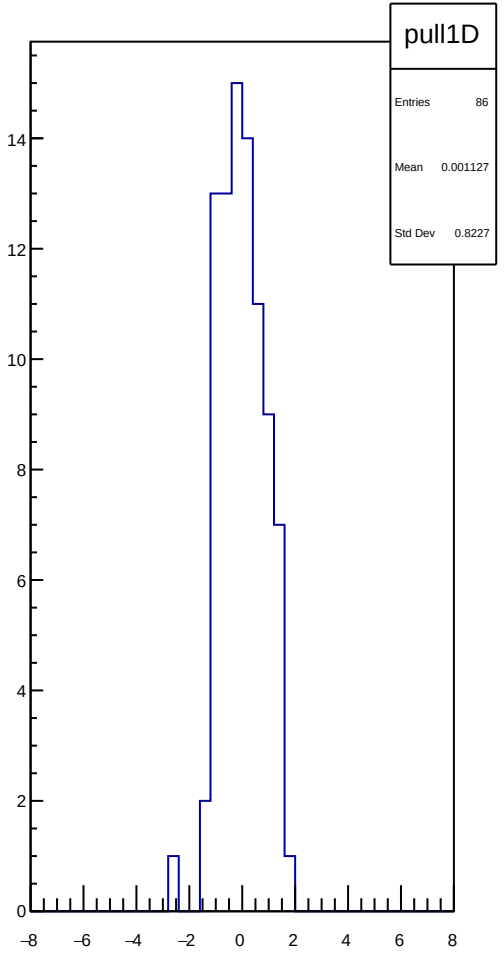

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 87.57 / 85
p0 1699 ± 1.309
1740
1730
1720
1710
1700
1690
1680
1670
1660

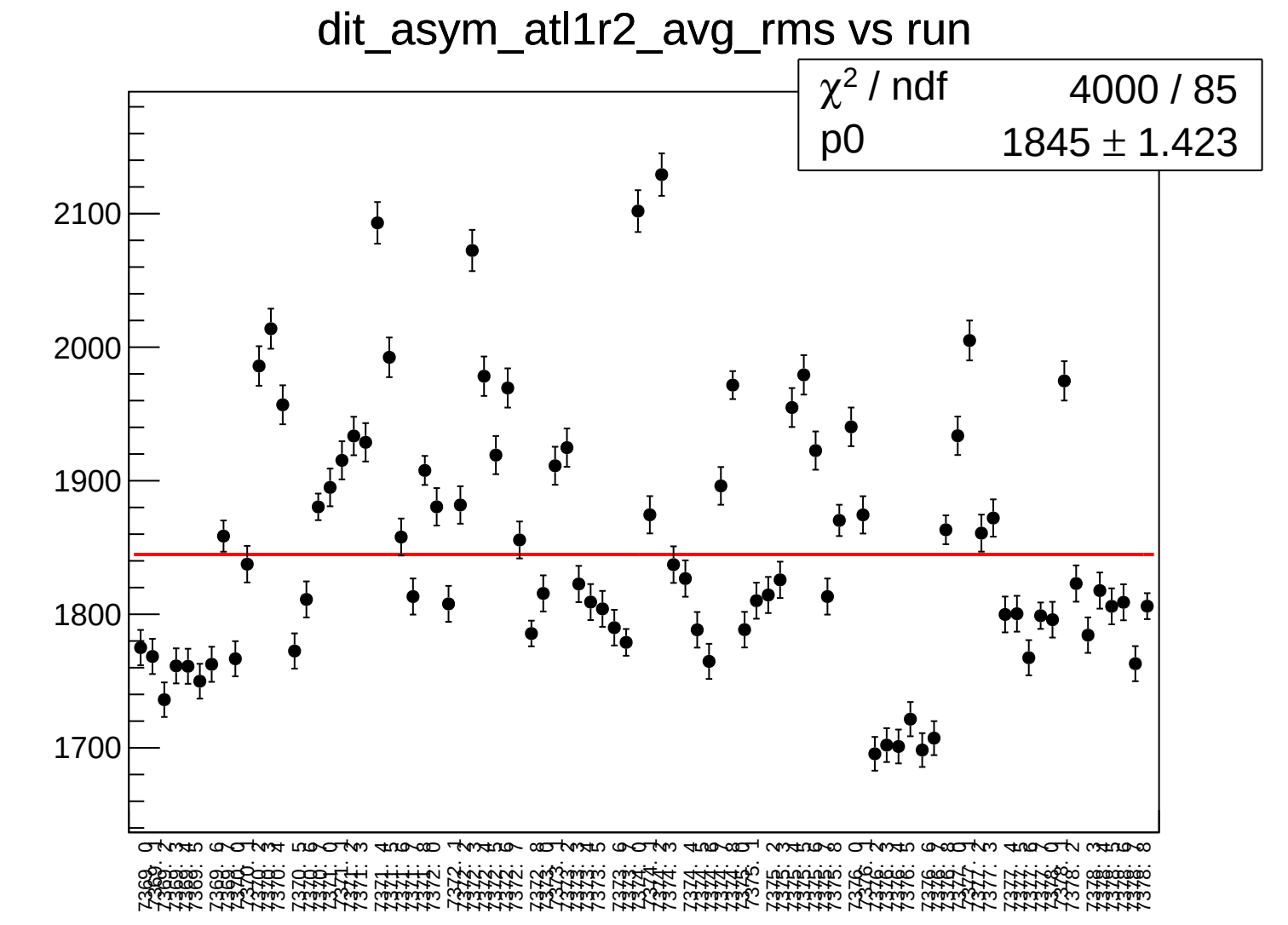

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.55 / 85
p0 −6517 ± 5319
pull
Entries 86
Mean −246.6
Std Dev 0

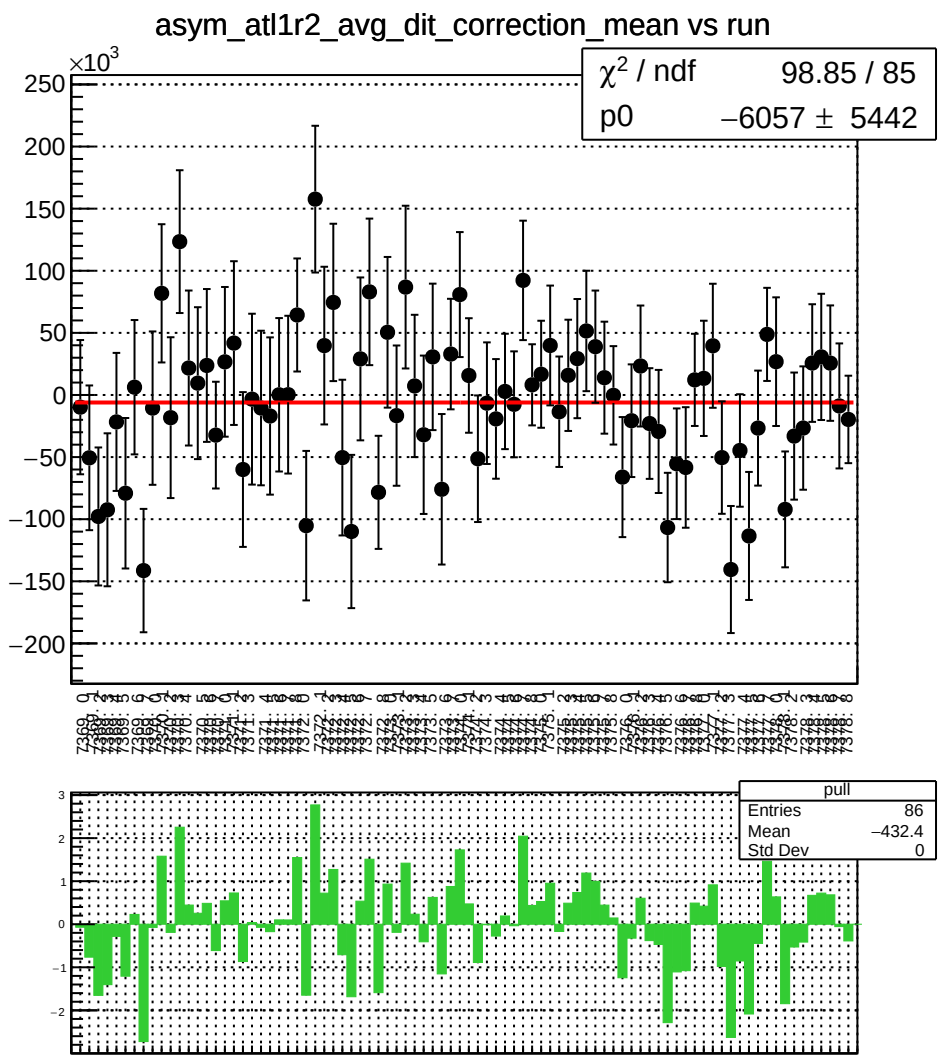

pull1D
Entries 86
Mean 0.004667
Std Dev 1.07

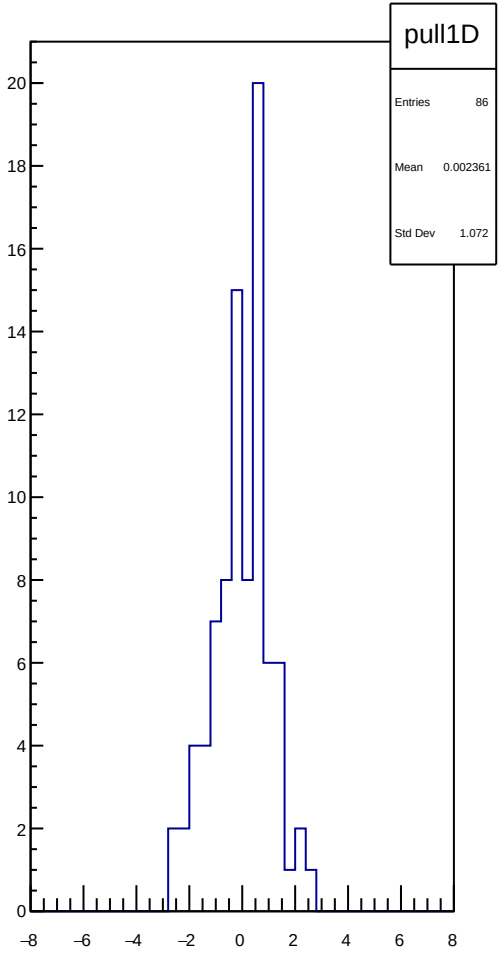

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.072e+04 / 85
p0 4836 ± 3.761
6500
6000
5500
5000
4500
4000

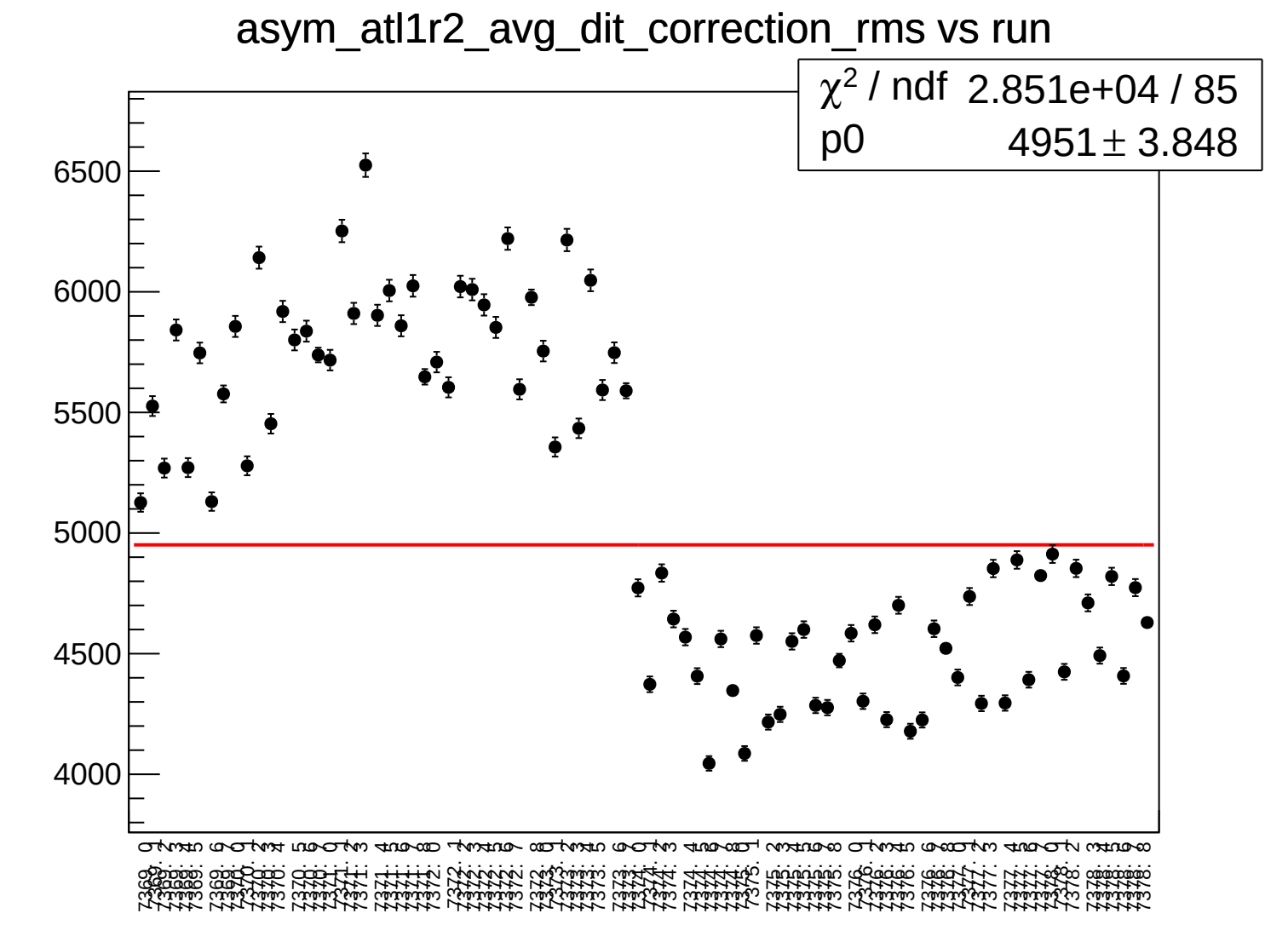

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 58.21 / 85
p0 −834.5 ± 2013
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2422
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

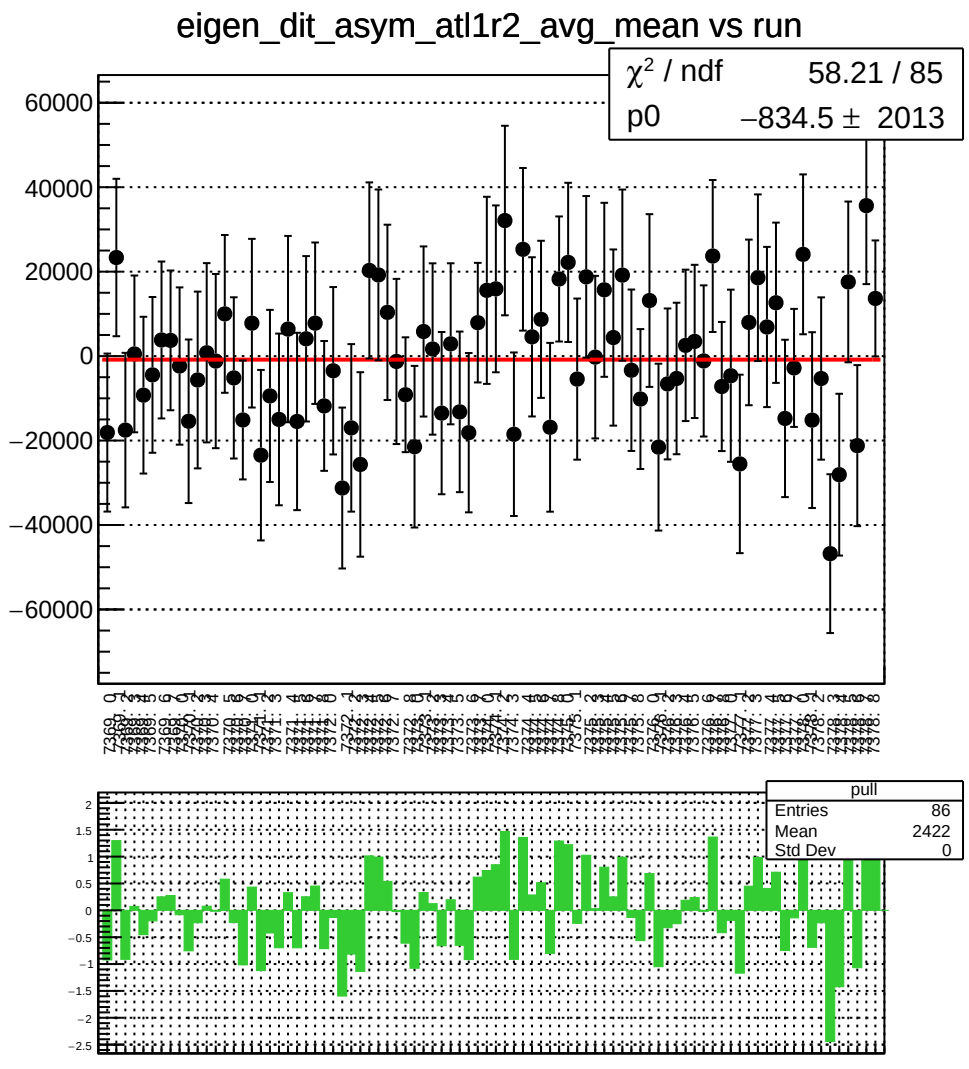

pull1D
Entries 86
Mean 0.001127
Std Dev 0.8227
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

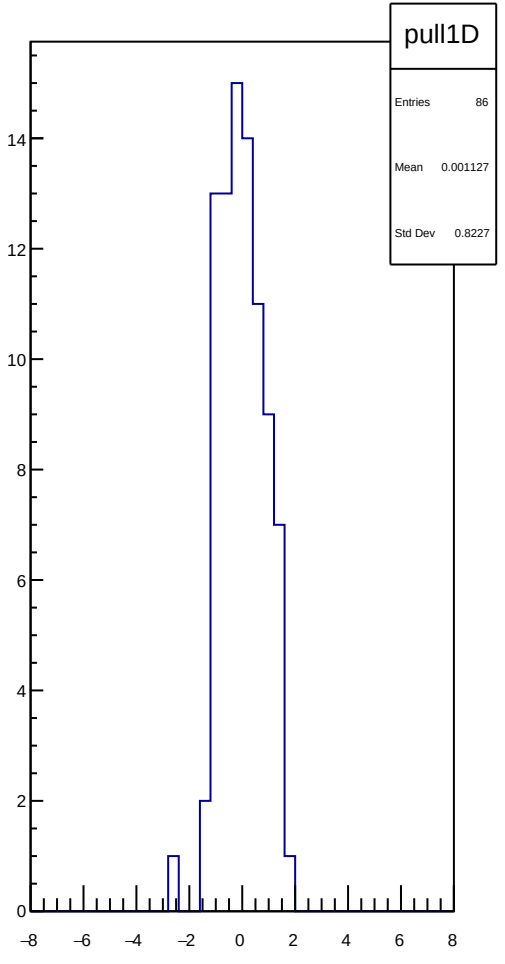

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 4000 / 85
p0 1845 ± 1.423
2100
2000
1900
1800
1700

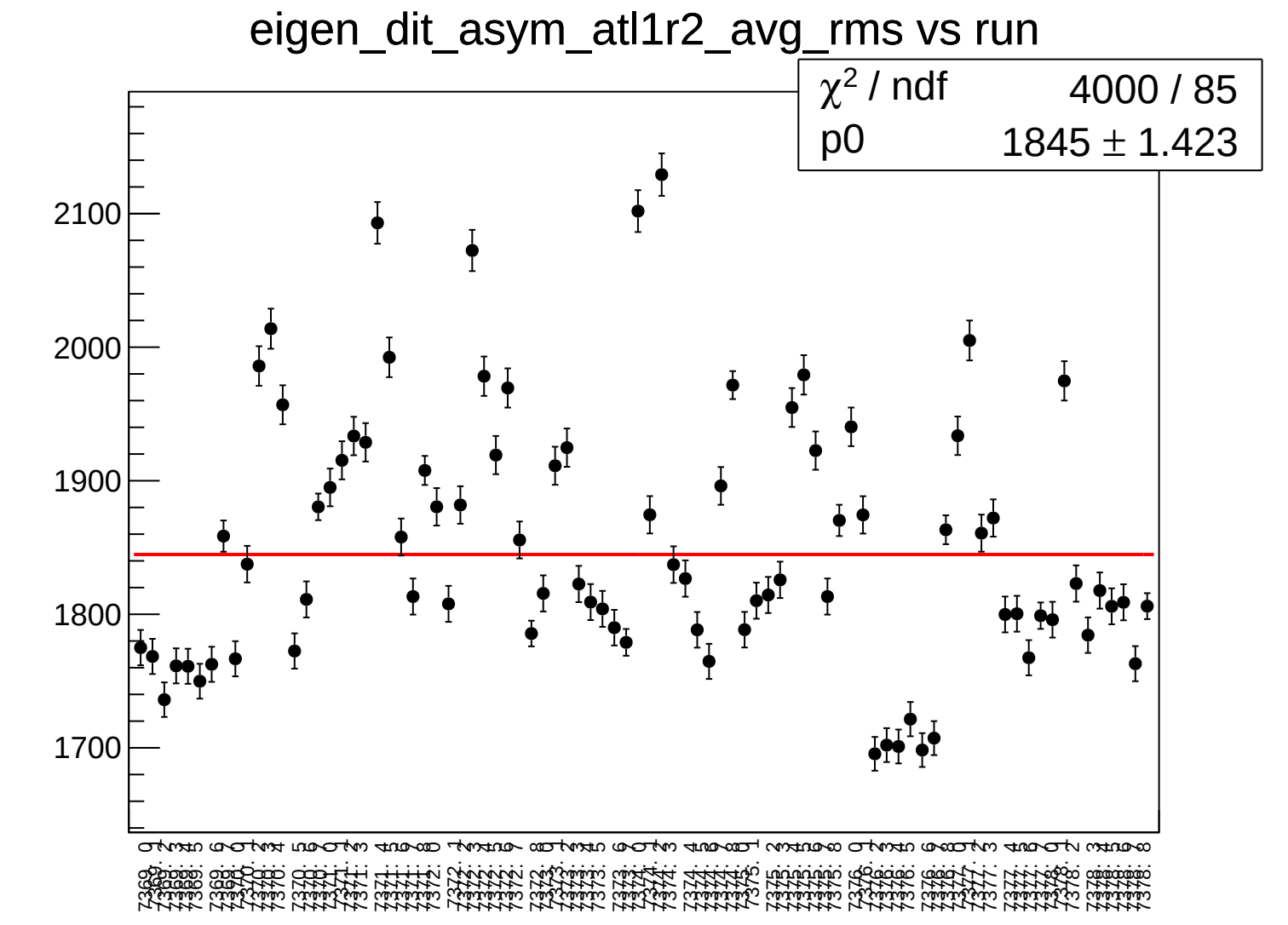

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 98.85 / 85
p0 −6057 ± 5442
pull
Entries 86
Mean −432.4
Std Dev 0

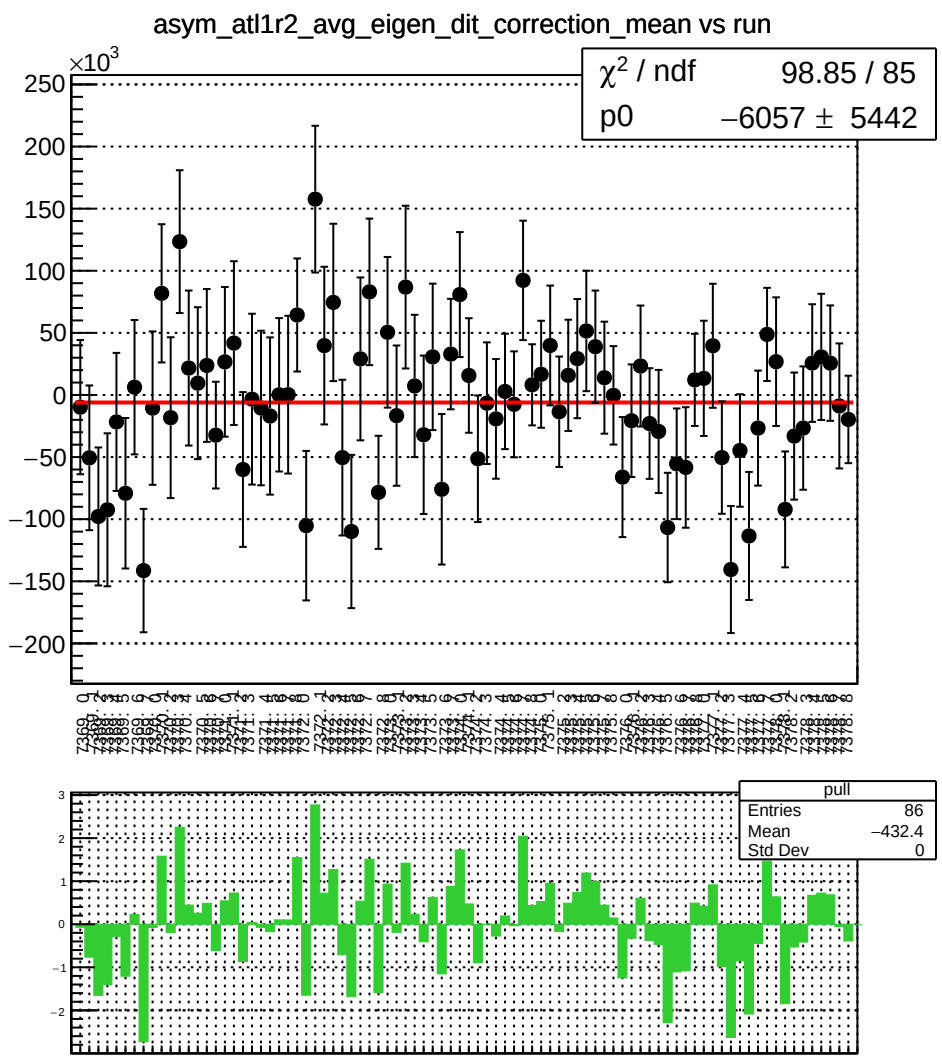

pull1D
Entries 86
Mean 0.002361
Std Dev 1.072

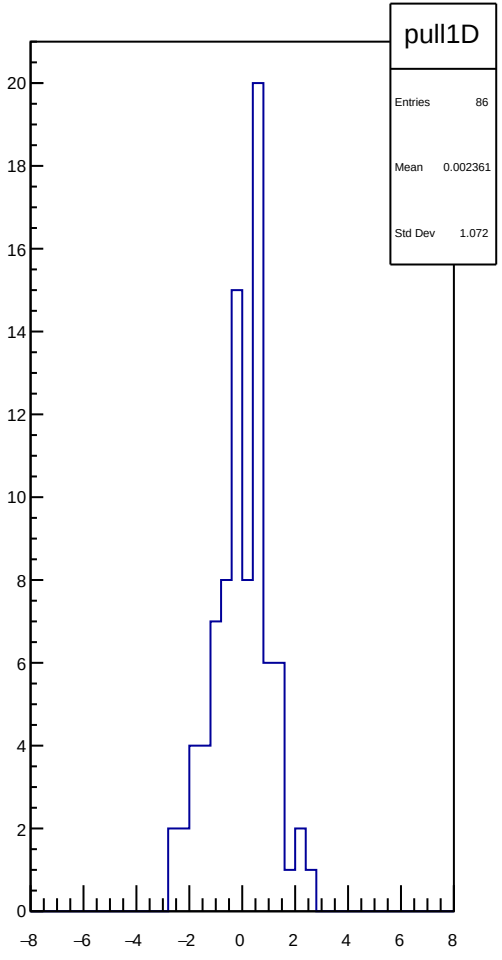

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 2.851e+04 / 85
p0 4951 ± 3.848
6500
6000
5500
5000
4500
4000

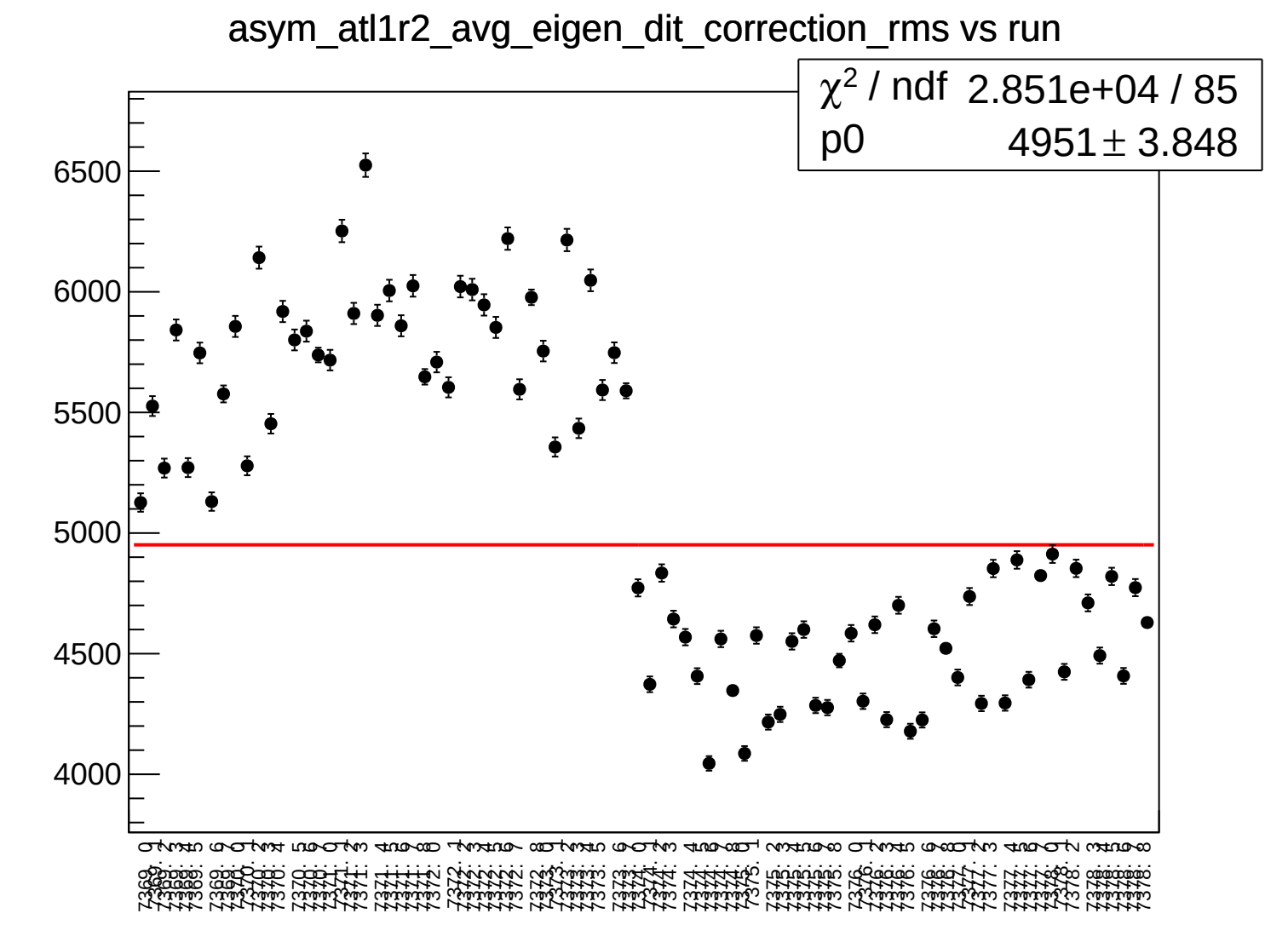

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 58.21 / 85
p0 −834.5 ± 2013
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2422
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

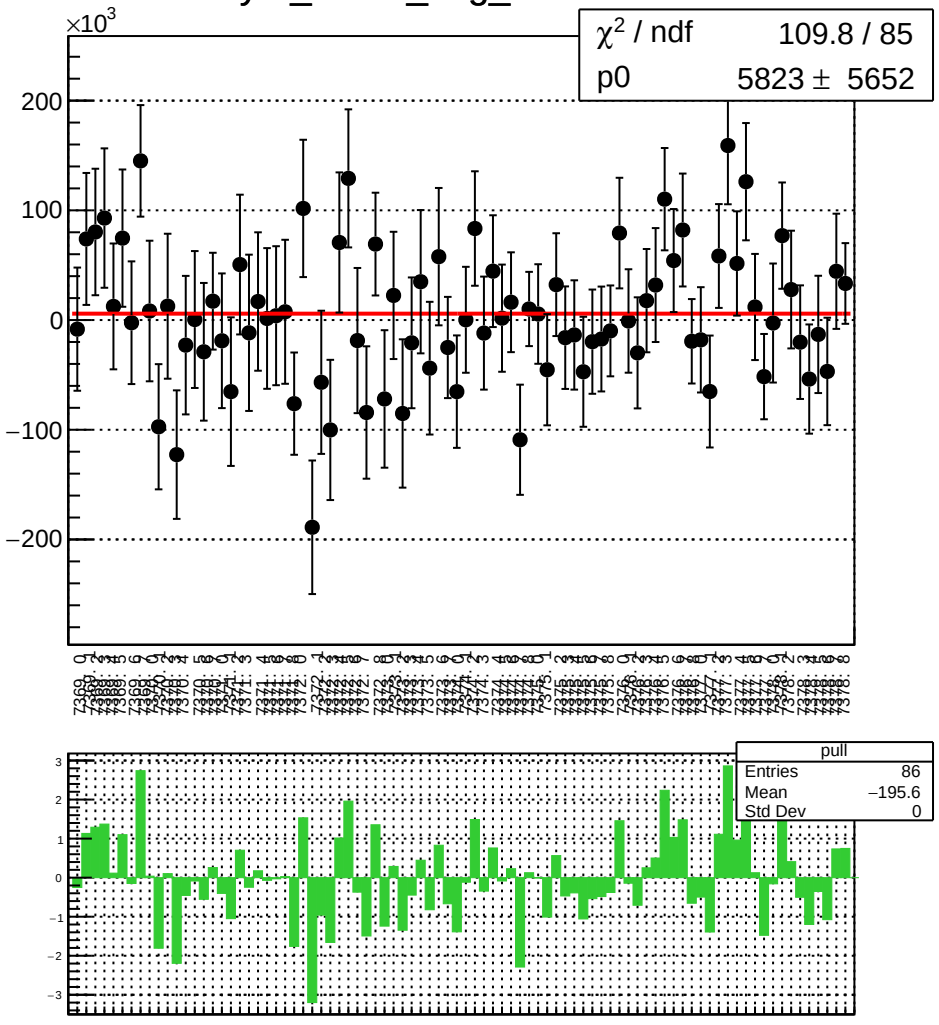

pull1D
Entries 86
Mean 0.001127
Std Dev 0.8227
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

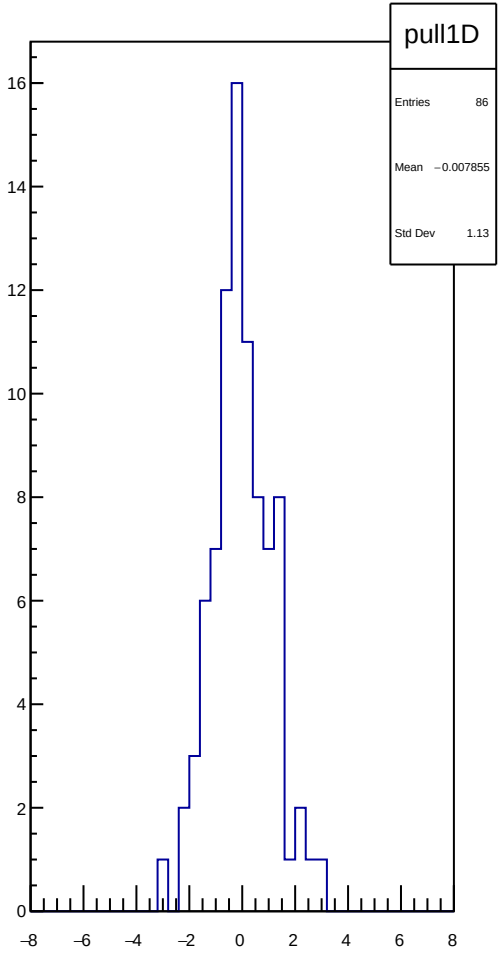

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 4000 / 85
p0 1845 ± 1.423
2100
2000
1900
1800
1700

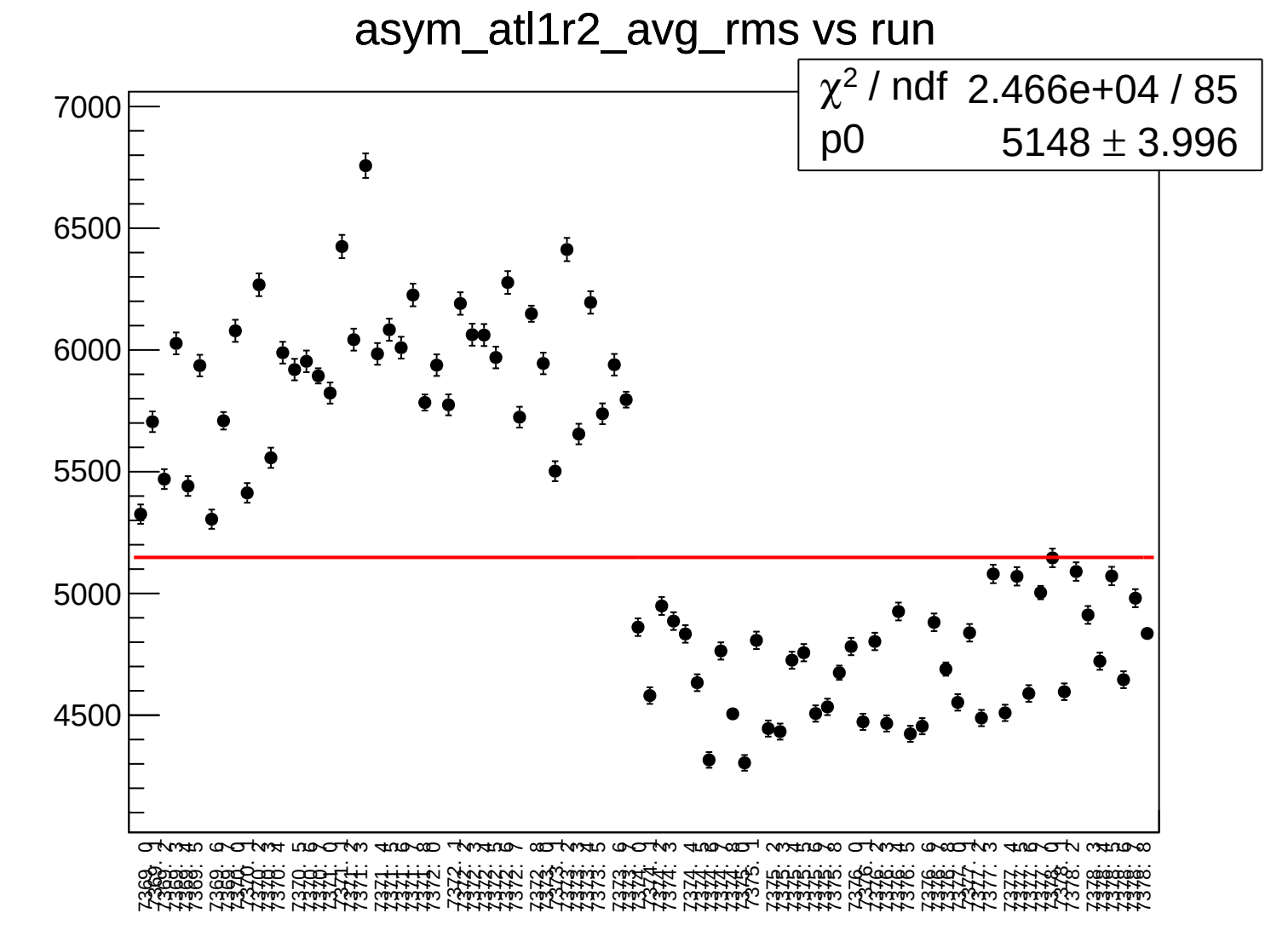

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.85 / 85
p0 −6057 ± 5442
pull
Entries 86
Mean −432.4
Std Dev 0

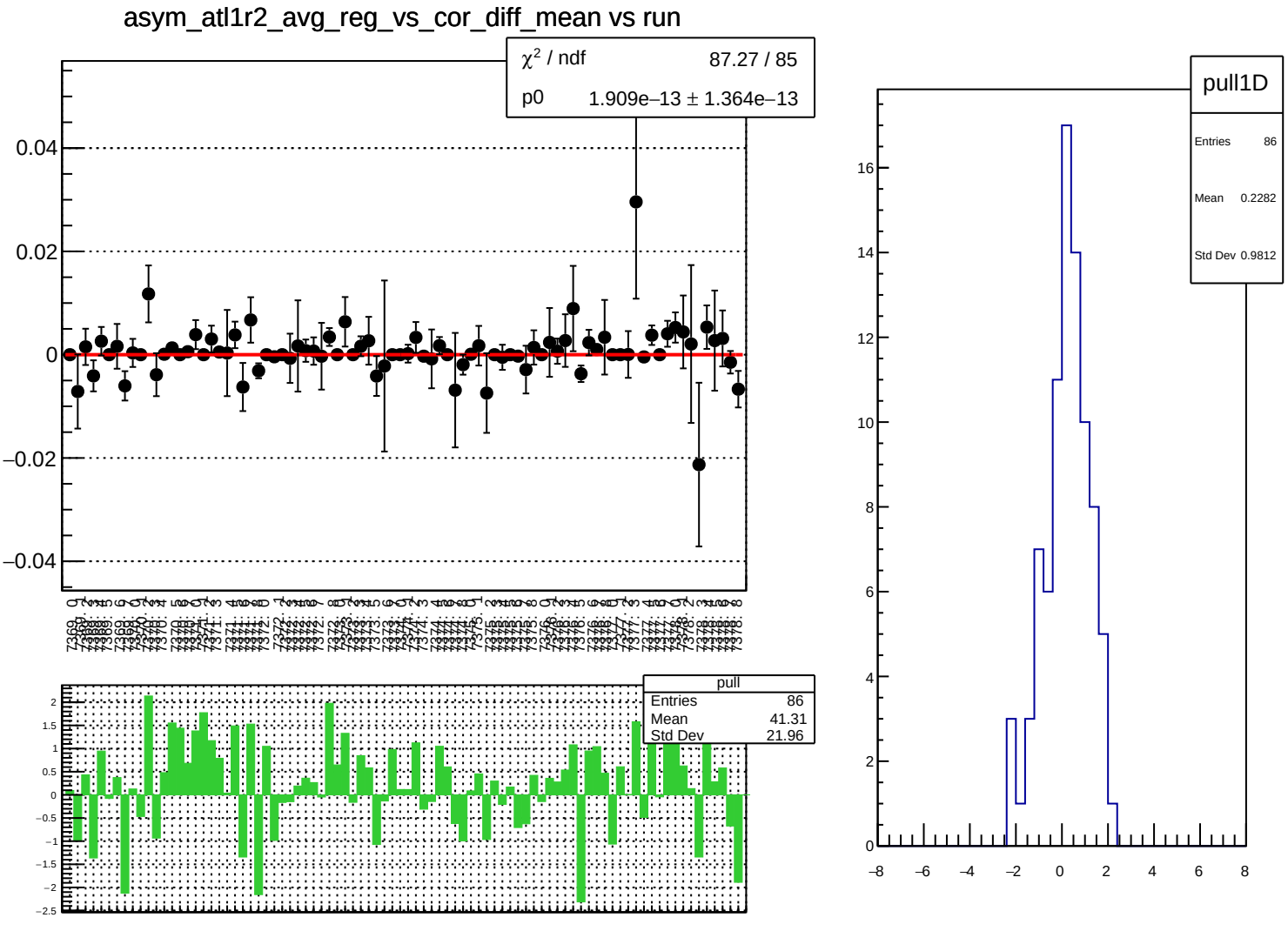

pull1D
Entries 86
Mean 0.002361
Std Dev 1.072

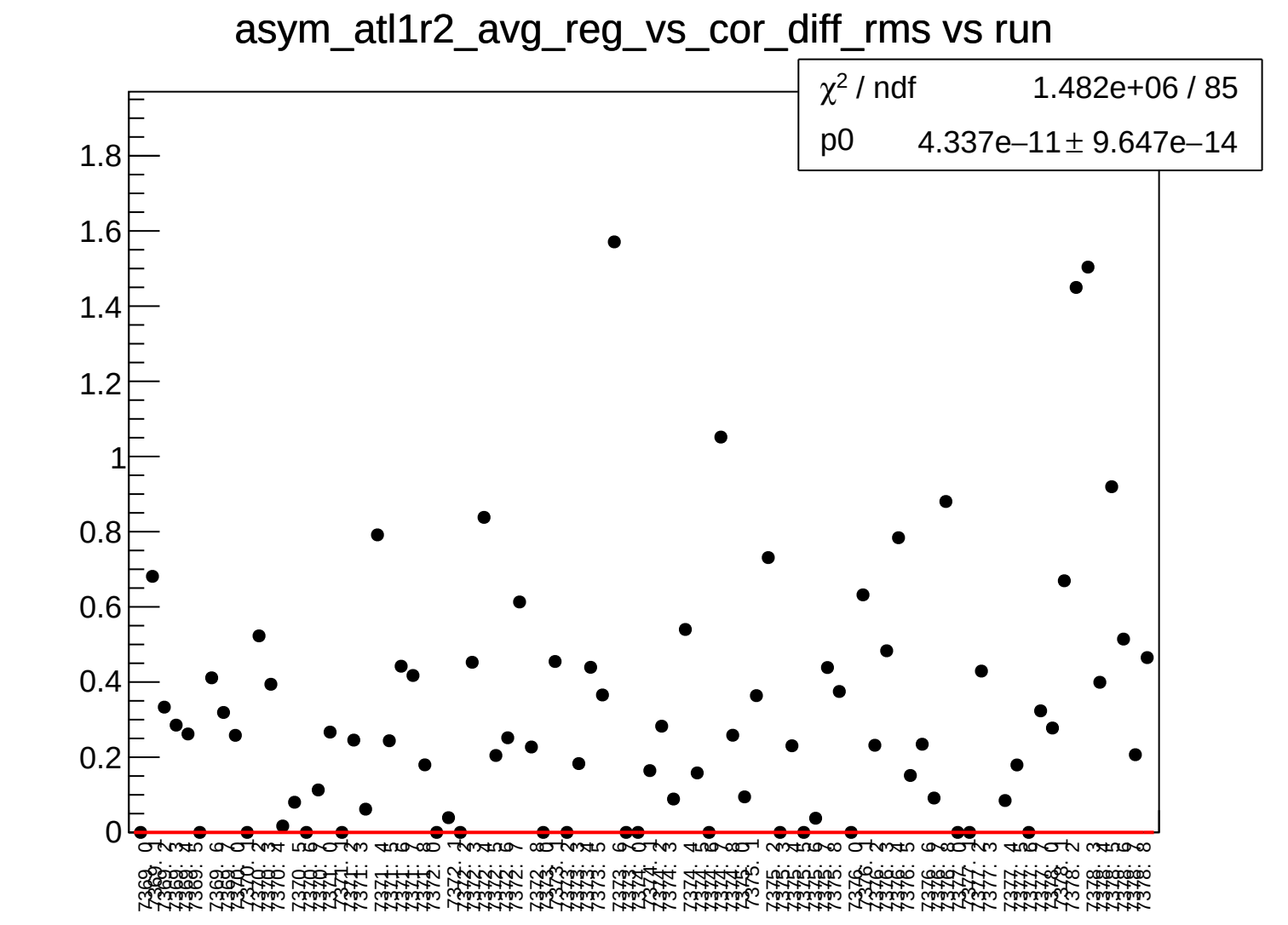

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.851e+04 / 85
p0 4951 ± 3.848
6500
6000
5500
5000
4500
4000

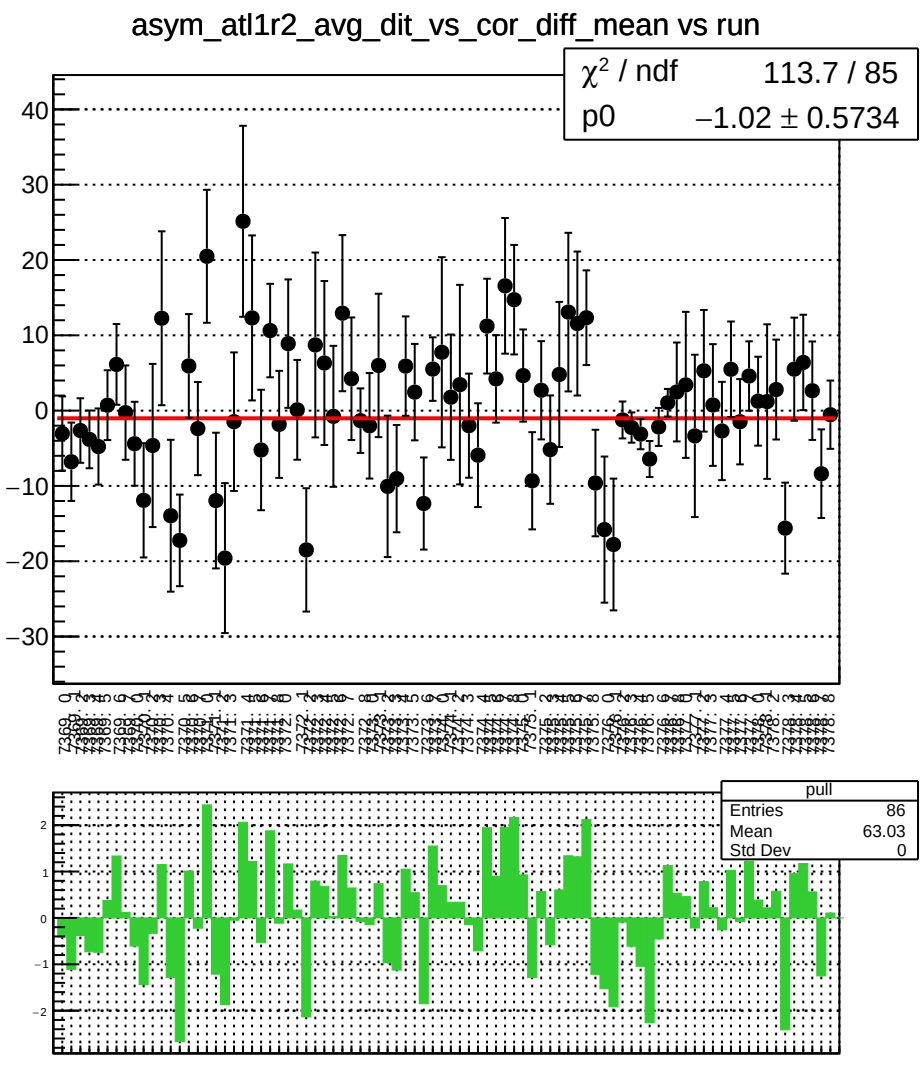

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 109.8 / 85
p0 5823 ± 5652
200
100
0
−100
−200
pull
Entries 86
Mean −195.6
Std Dev 0
3
2
1
0
−1
−2
−3

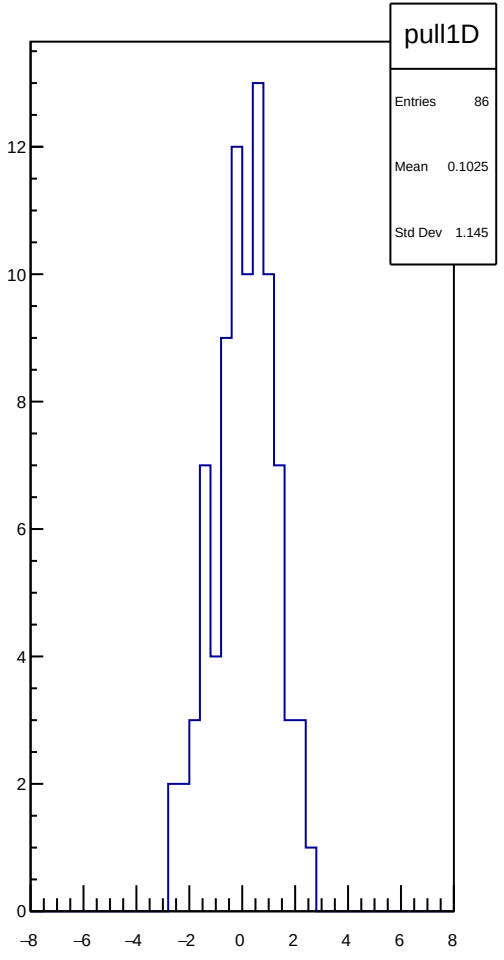

pull1D
Entries 86
Mean −0.007855
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

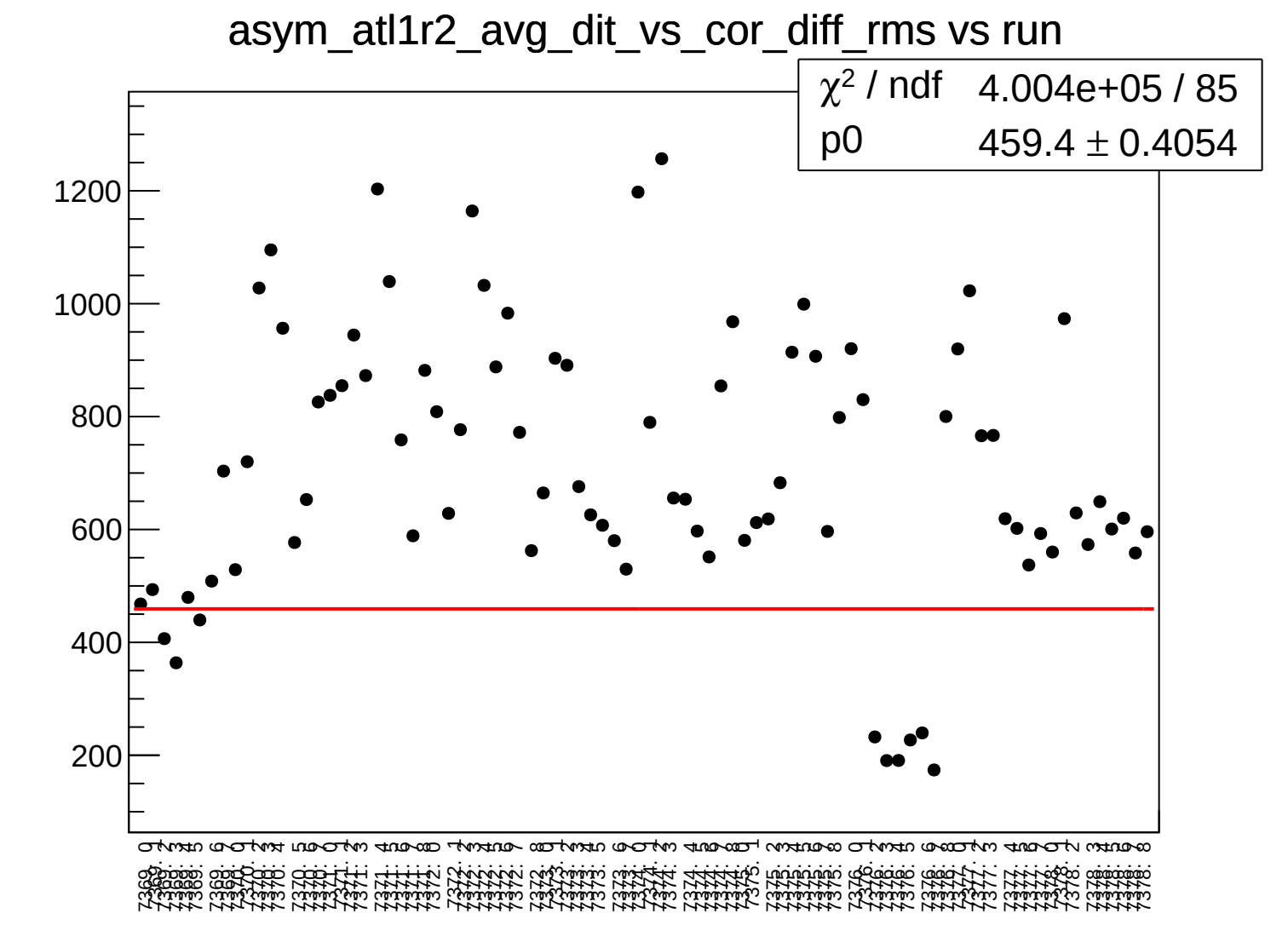

asym_atl1r2_avg_rms vs run
χ² / ndf 2.466e+04 / 85
p0 5148 ± 3.996
7000
6500
6000
5500
5000
4500

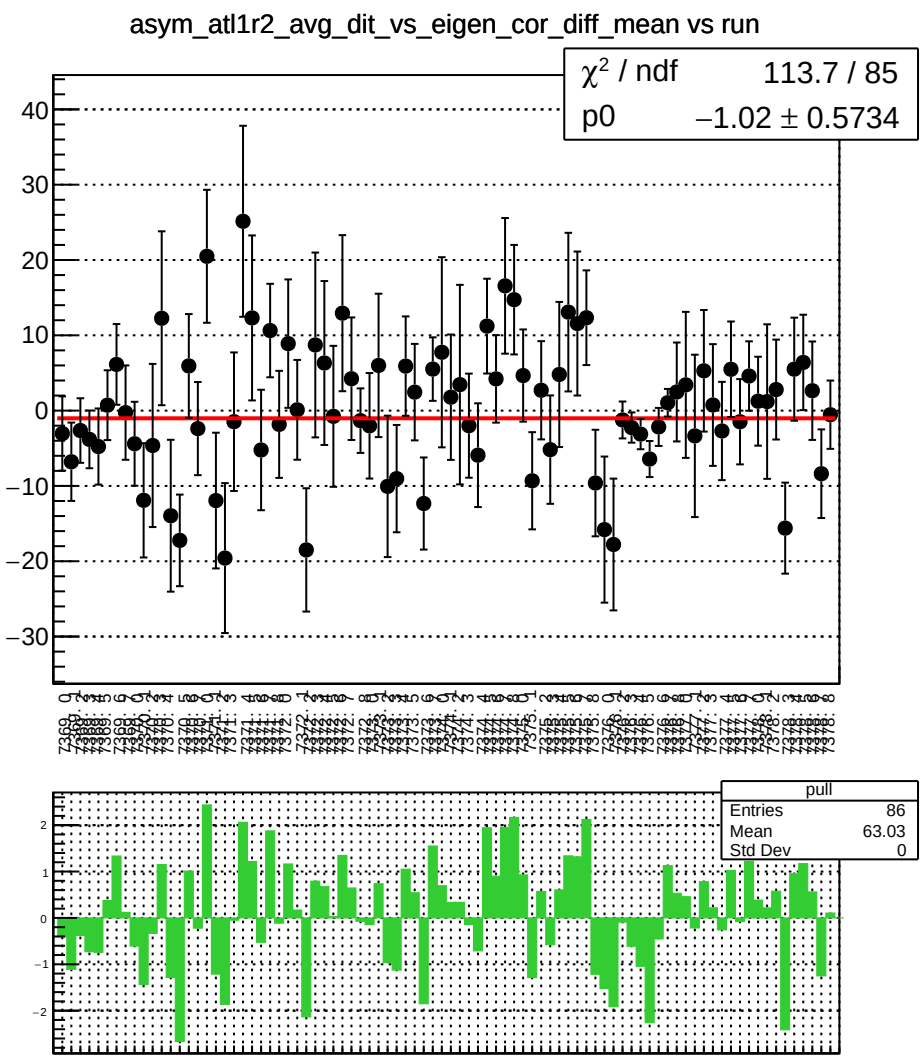

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.27 / 85
p0 1.909e−13 ± 1.364e−13
0.04
0.02
0
−0.02
−0.04
pull
Entries 86
Mean 41.31
Std Dev 21.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 86
Mean 0.2282
Std Dev 0.9812
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

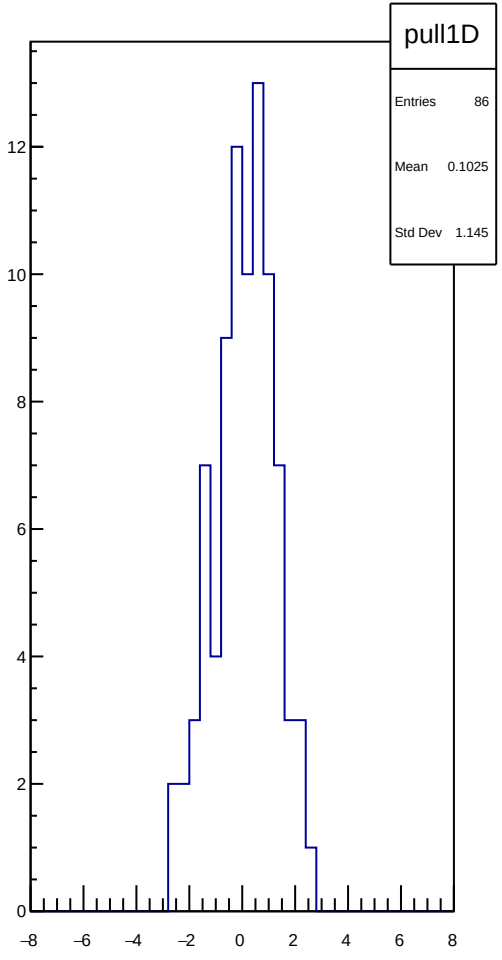

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.482e+06 / 85
p0 4.337e−11 ± 9.647e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

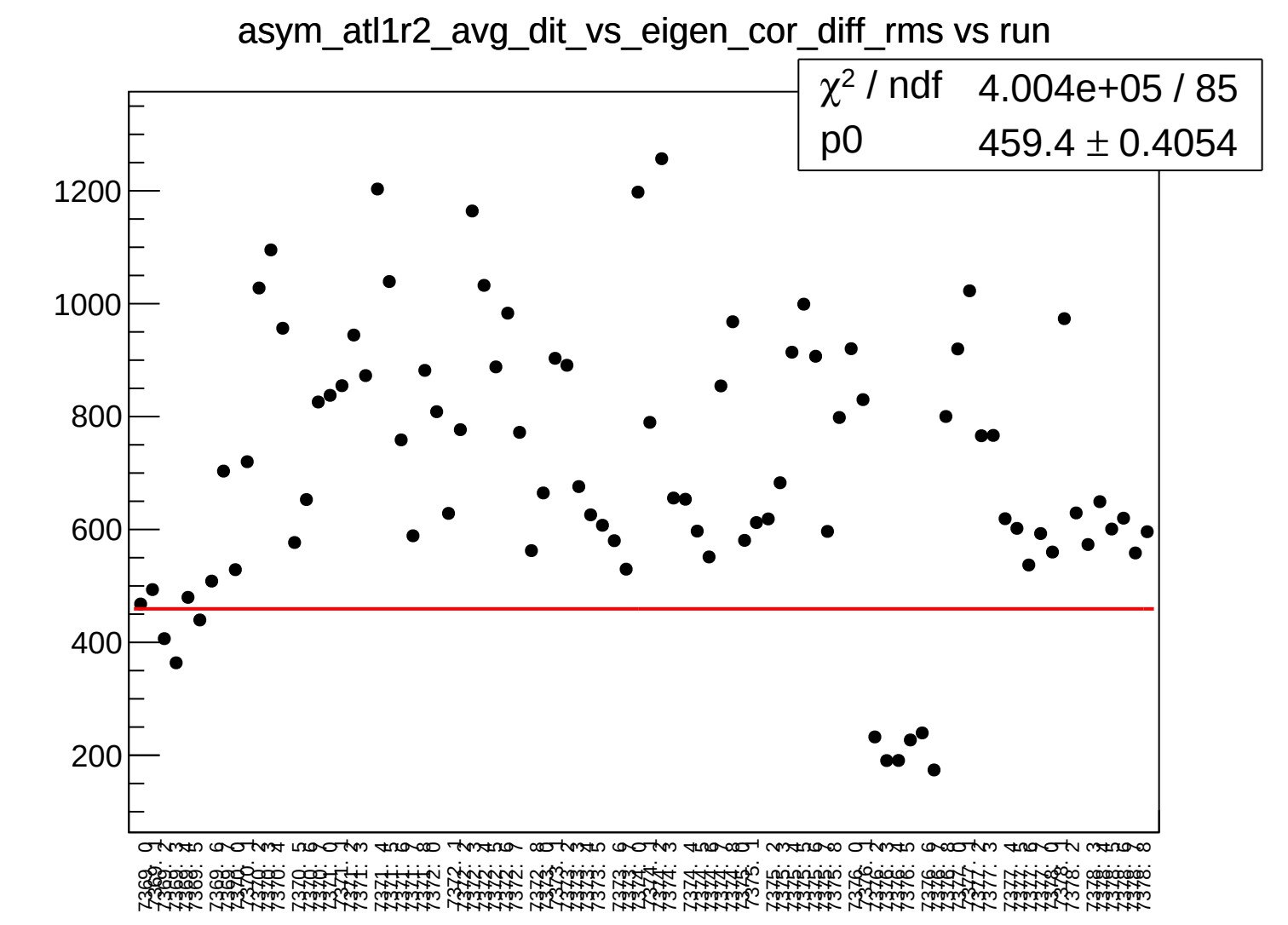

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 85
p0 −1.02 ± 0.5734
pull
Entries 86
Mean 63.03
Std Dev 0

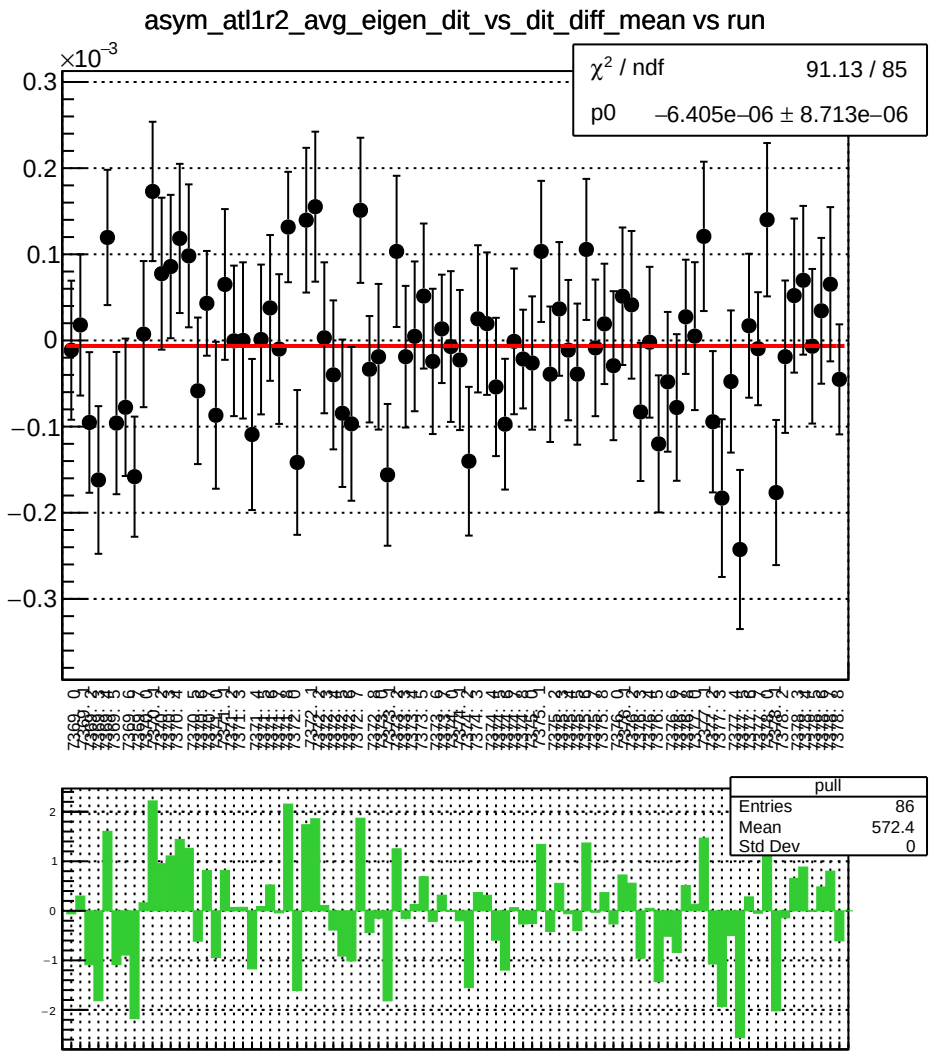

pull1D
Entries 86
Mean 0.1025
Std Dev 1.145

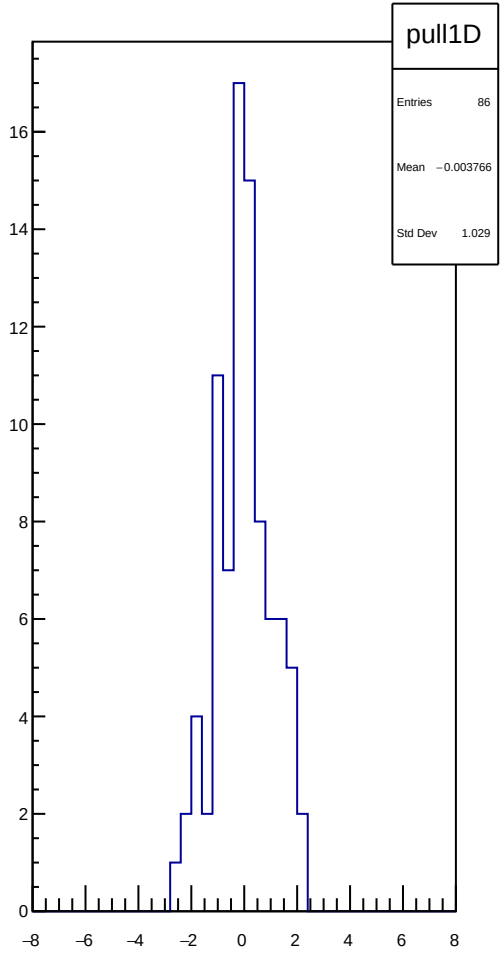

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.004e+05 / 85
p0 459.4 ± 0.4054
1200
1000
800
600
400
200

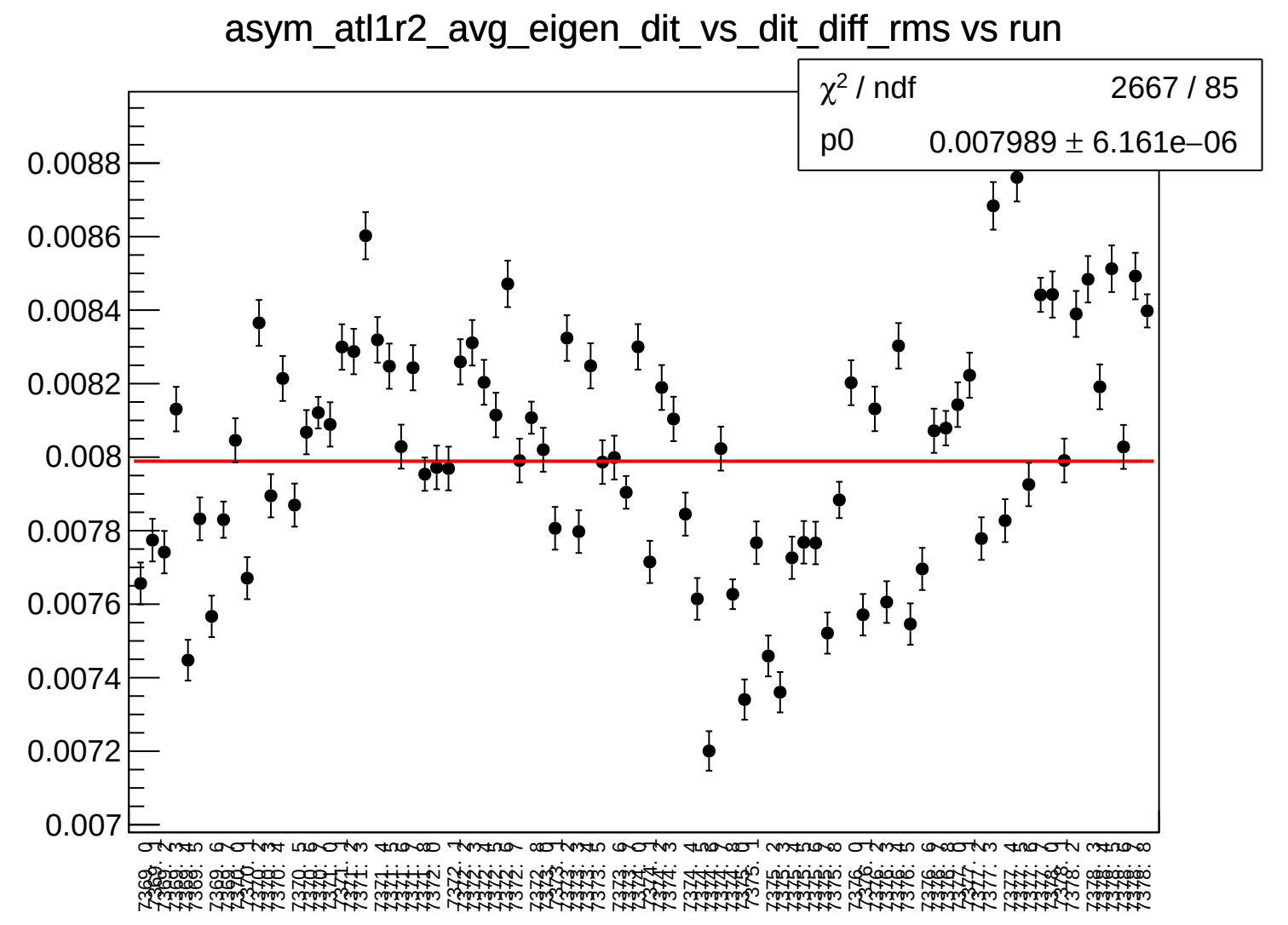

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.7 / 85
p0 −1.02 ± 0.5734
pull
Entries 86
Mean 63.03
Std Dev 0

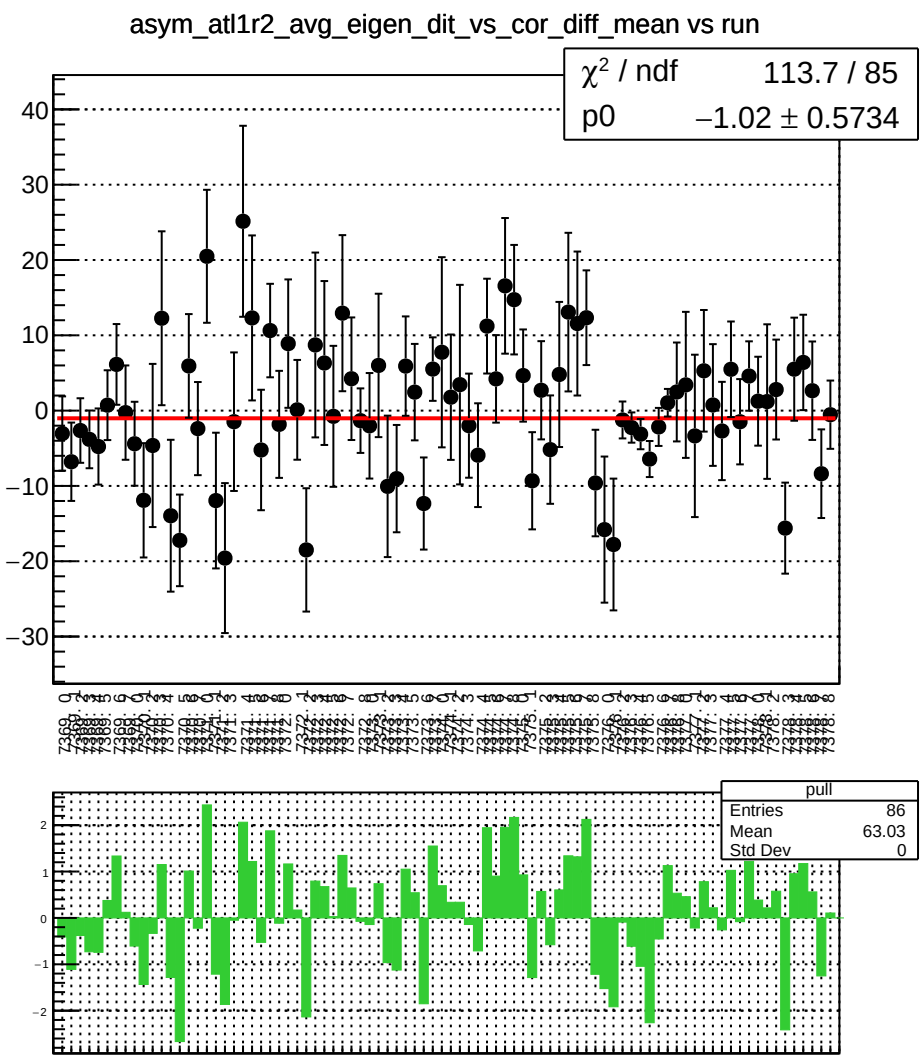

pull1D
Entries 86
Mean 0.1025
Std Dev 1.145

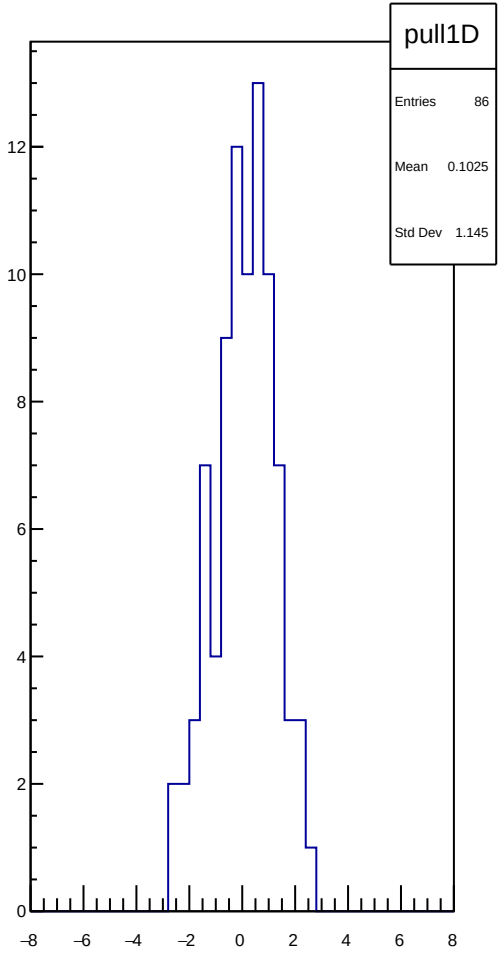

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.004e+05 / 85
p0 459.4 ± 0.4054
1200
1000
800
600
400
200

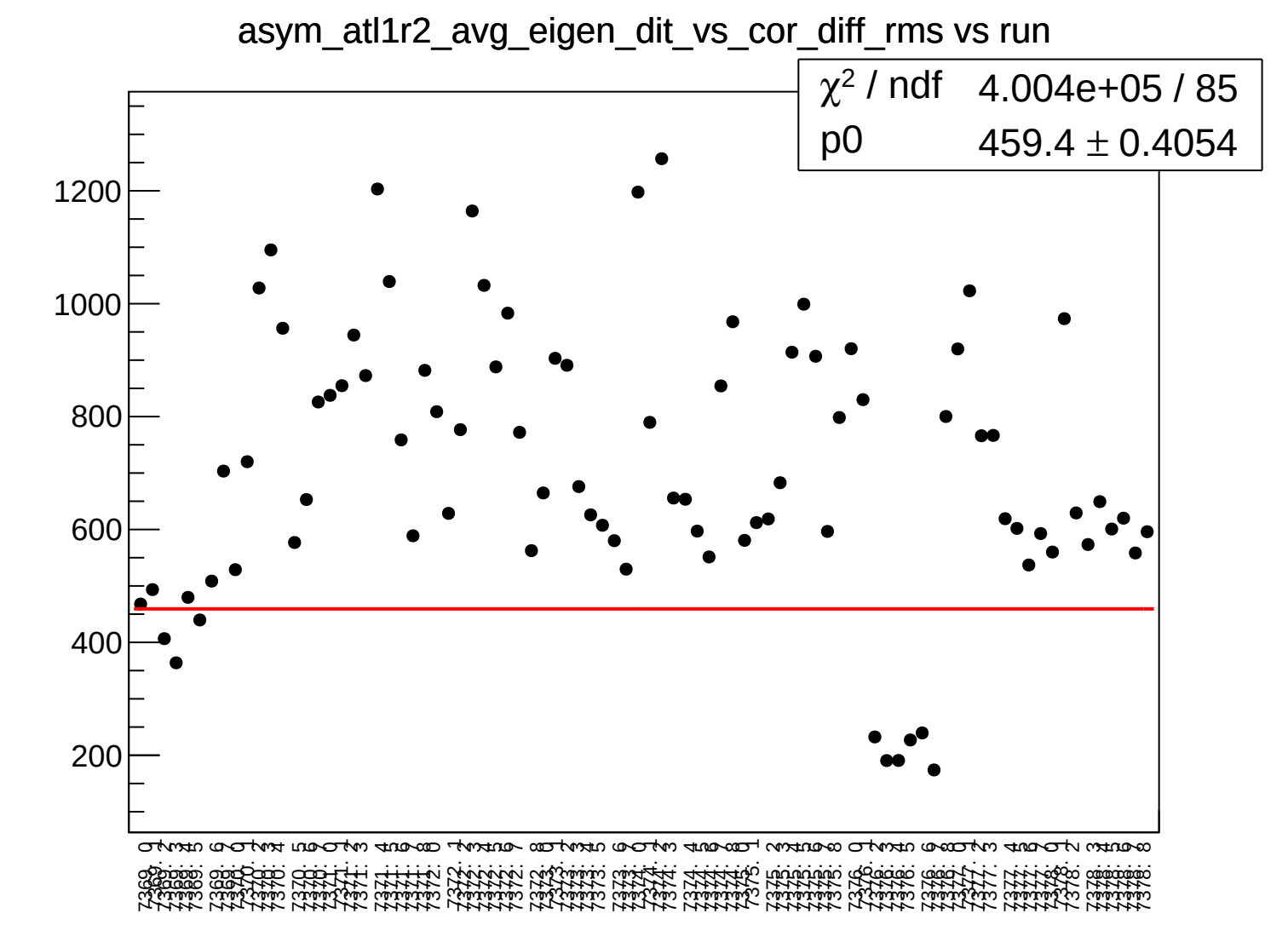

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.13 / 85
p0 −6.405e−06 ± 8.713e−06
pull
Entries 86
Mean 572.4
Std Dev 0

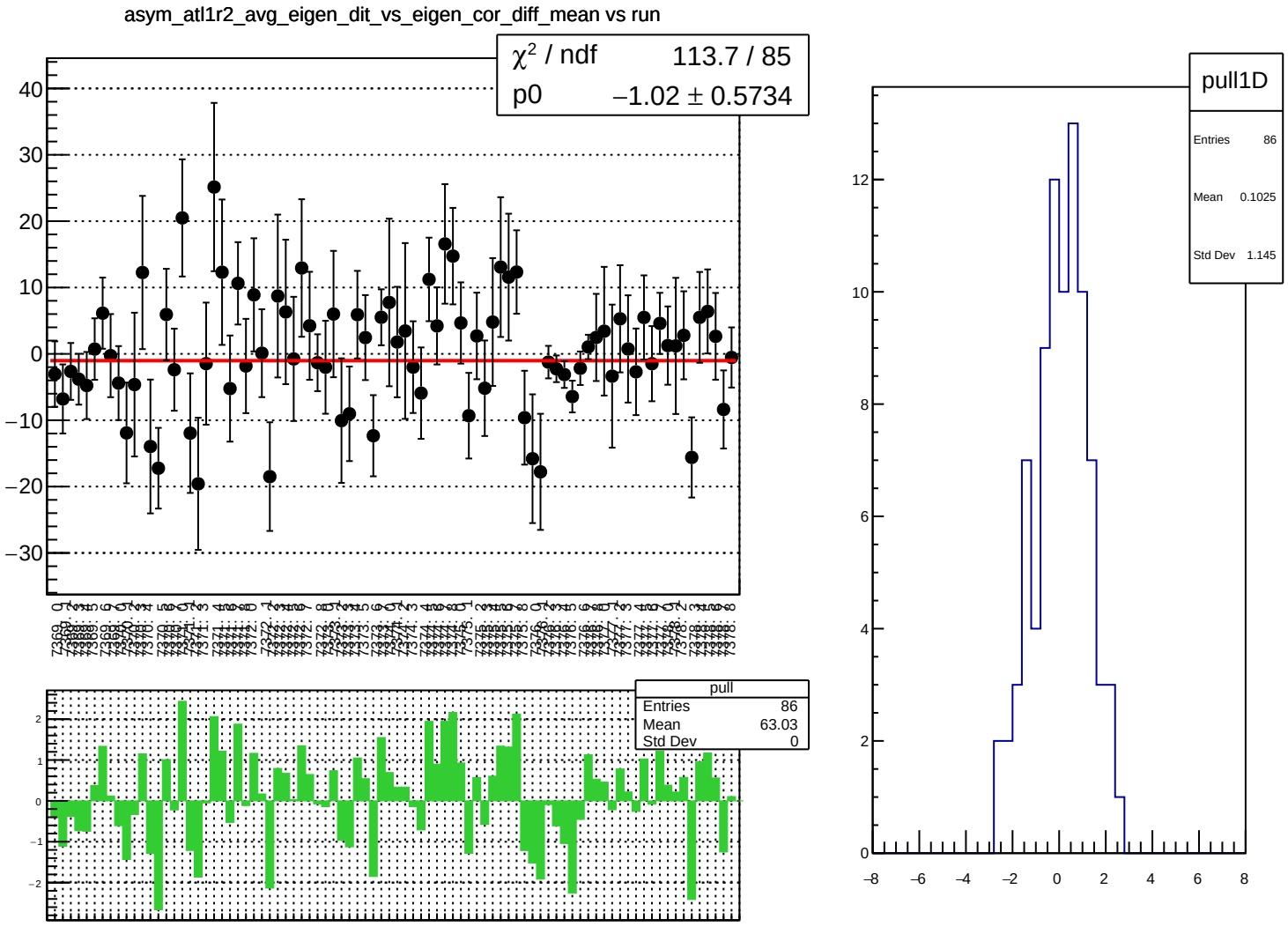

pull1D
Entries 86
Mean −0.003766
Std Dev 1.029

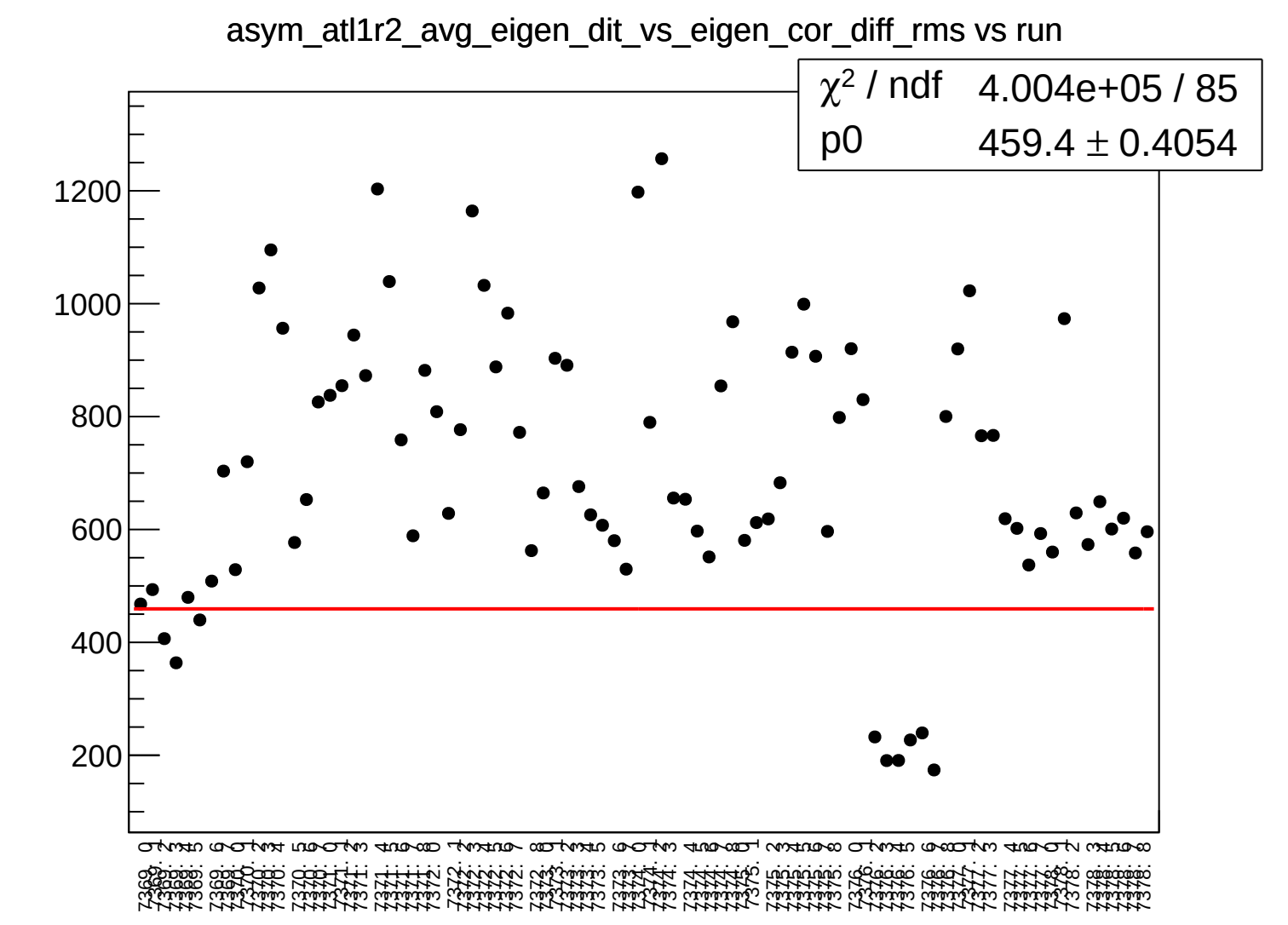

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2667 / 85
p0 0.007989 ± 6.161e−06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007

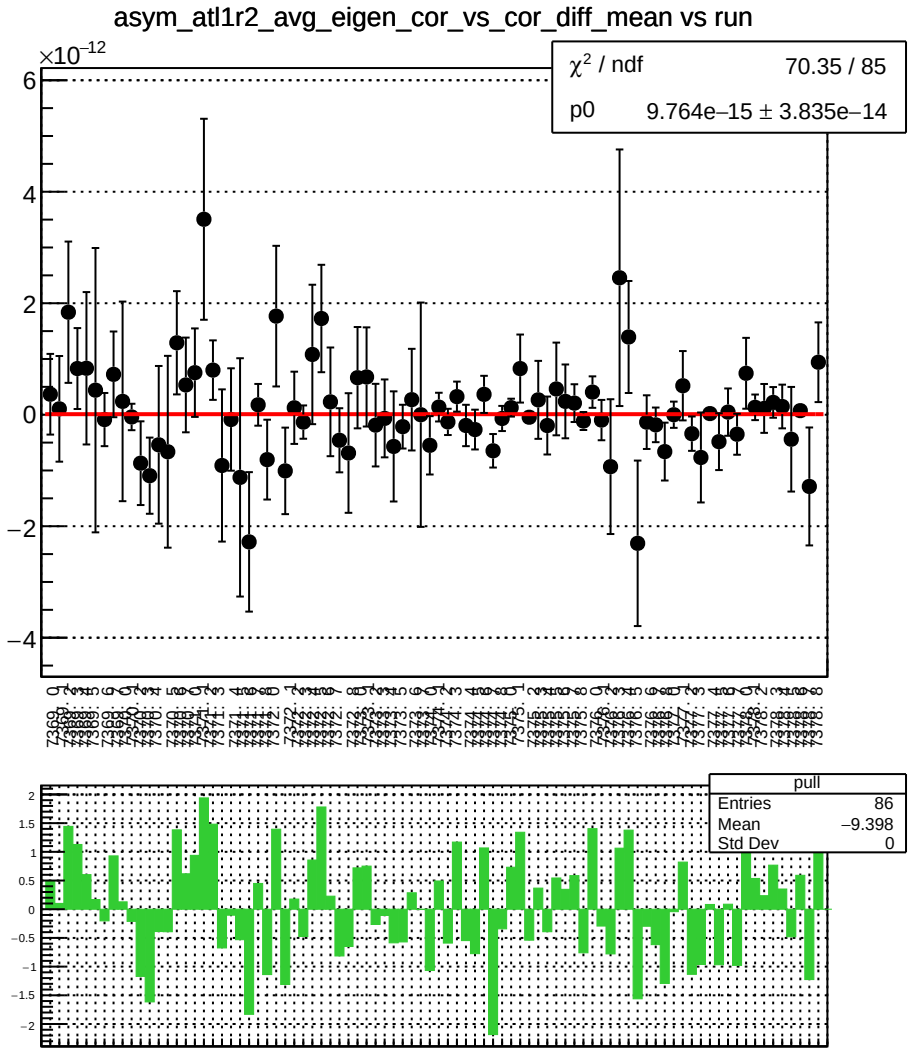

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 85
p0 −1.02 ± 0.5734
pull
Entries 86
Mean 63.03
Std Dev 0

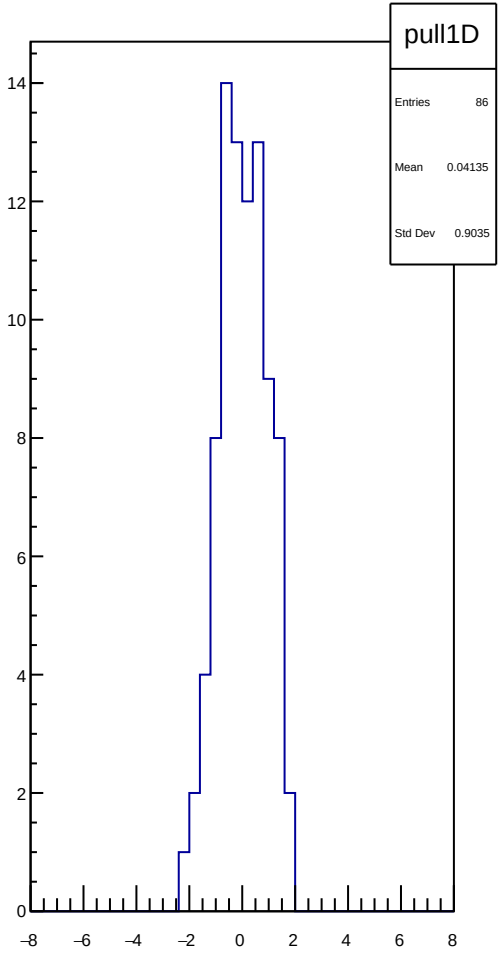

pull1D
Entries 86
Mean 0.1025
Std Dev 1.145

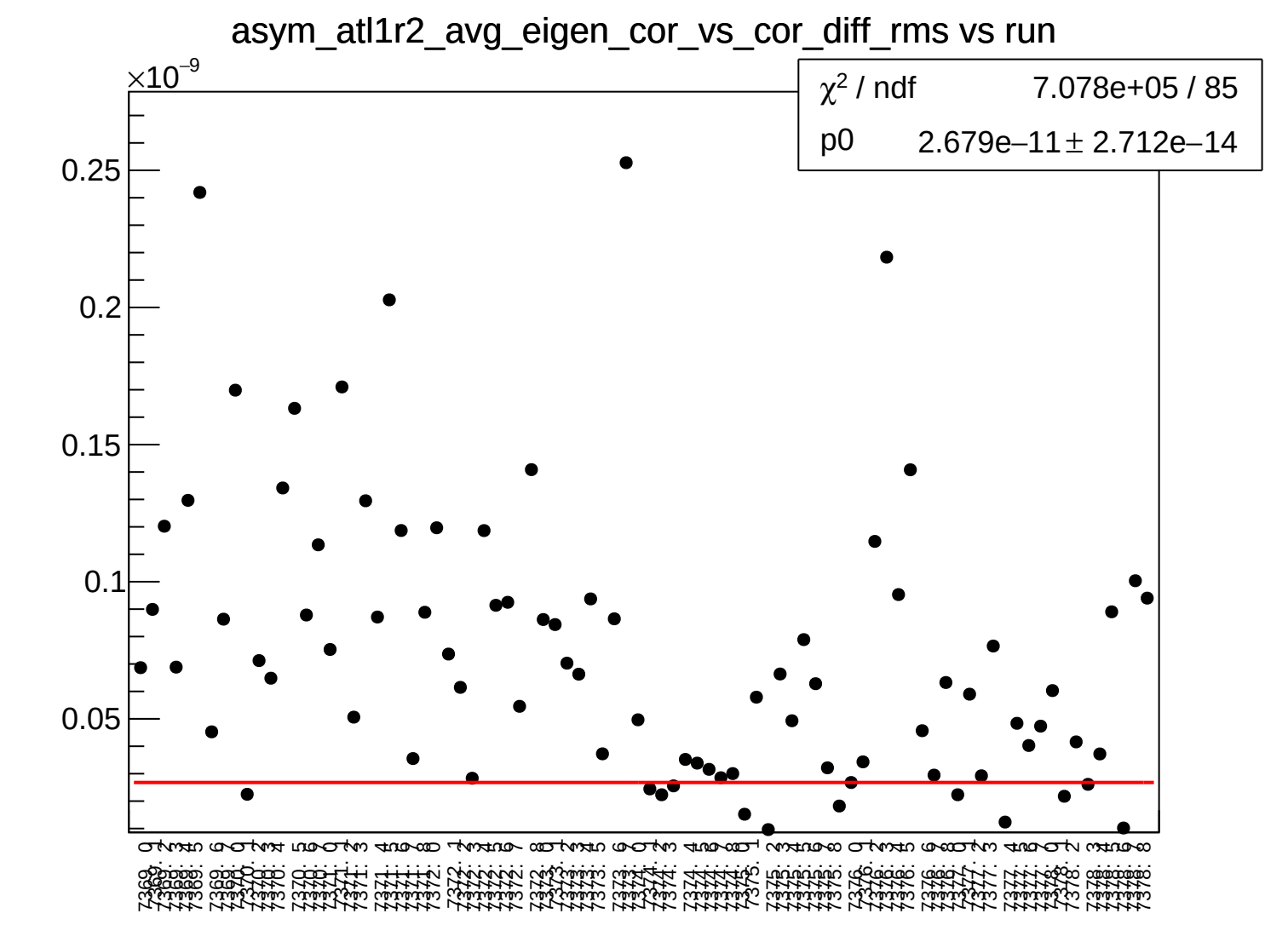

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.004e+05 / 85
p0 459.4 ± 0.4054
1200
1000
800
600
400
200

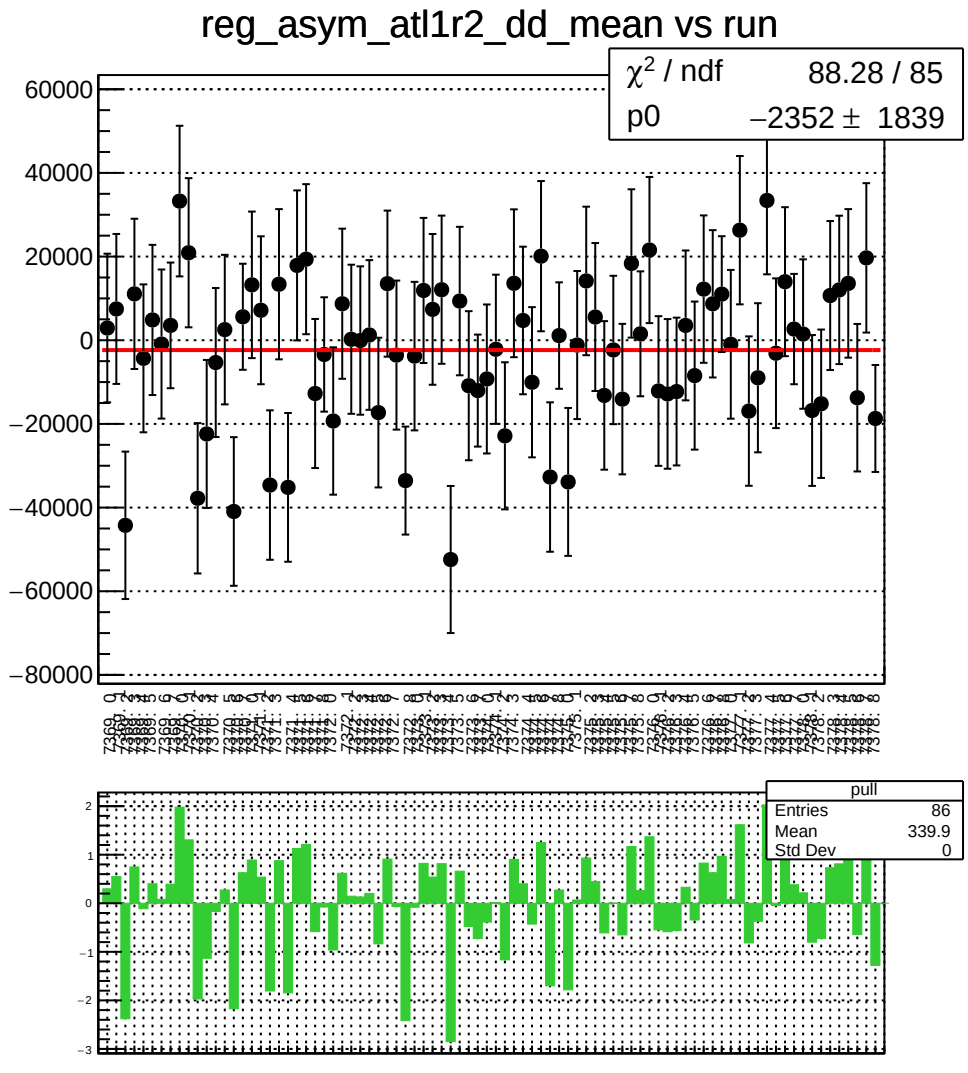

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.7 / 85
p0 −1.02 ± 0.5734
pull
Entries 86
Mean 63.03
Std Dev 0
pull1D
Entries 86
Mean 0.1025
Std Dev 1.145

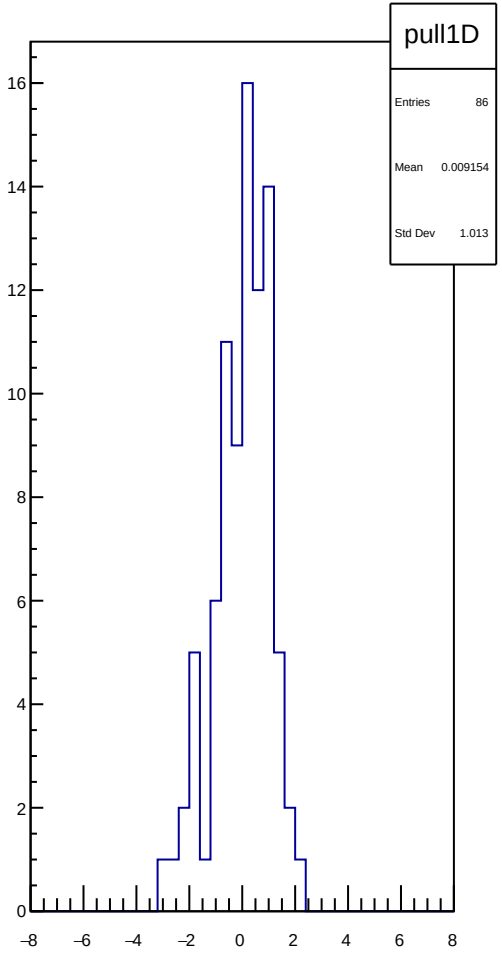

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.004e+05 / 85
p0 459.4 ± 0.4054
1200
1000
800
600
400
200

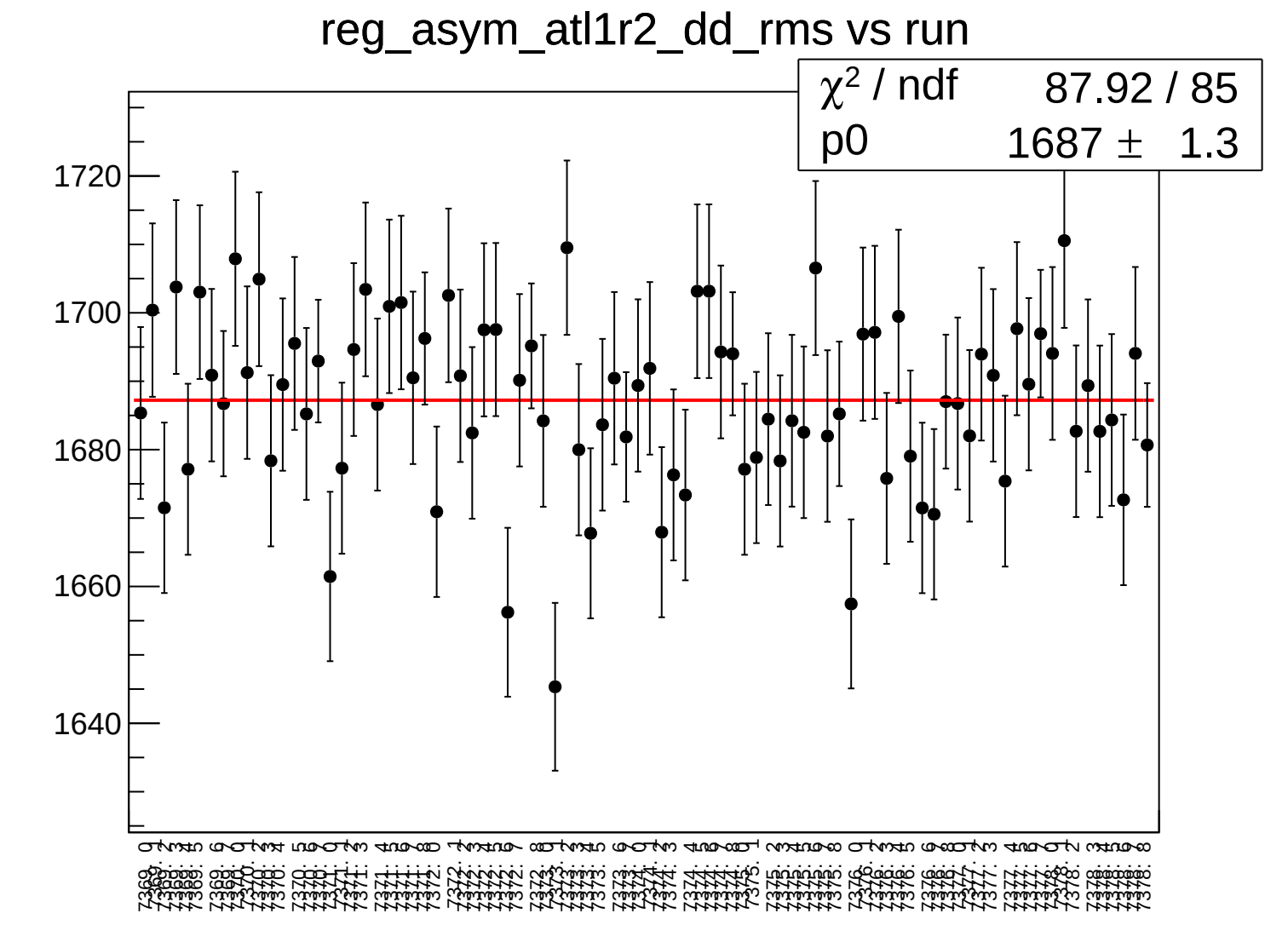

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.35 / 85
p0 9.764e−15 ± 3.835e−14
pull
Entries 86
Mean −9.398
Std Dev 0

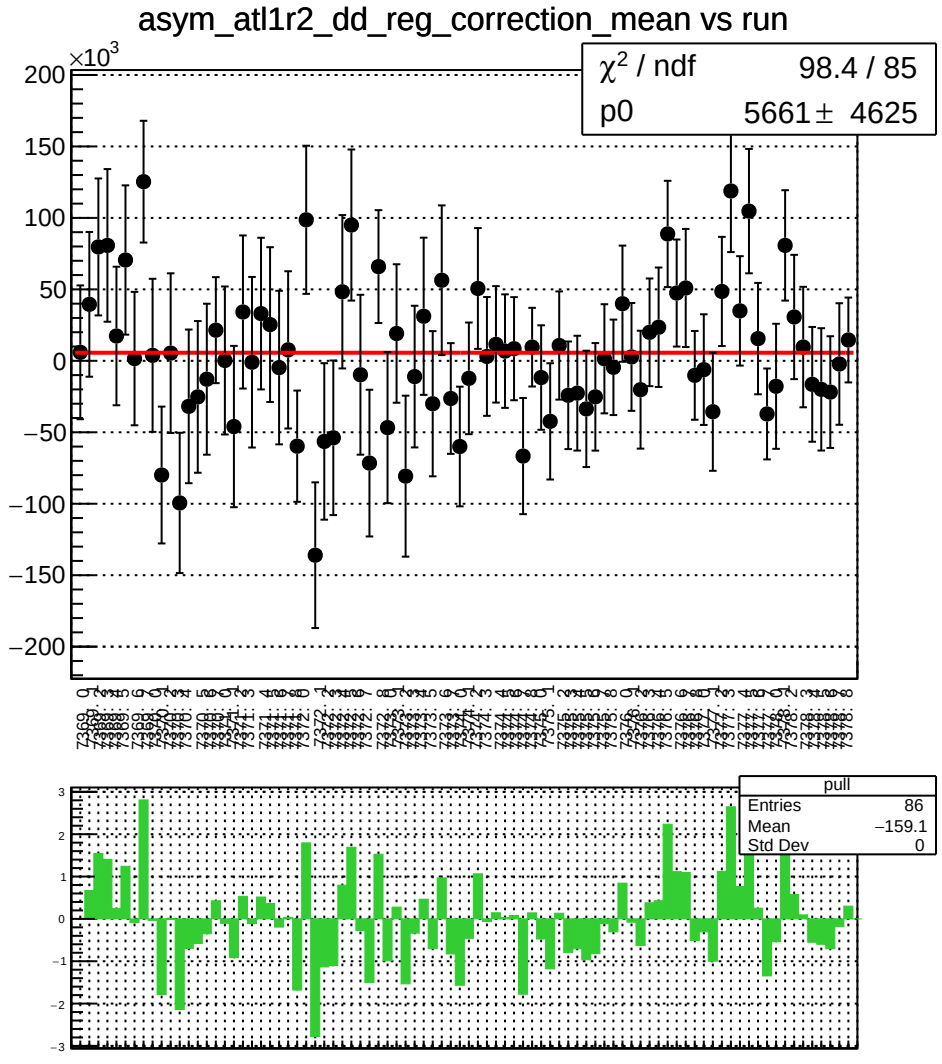

pull1D
Entries 86
Mean 0.04135
Std Dev 0.9035

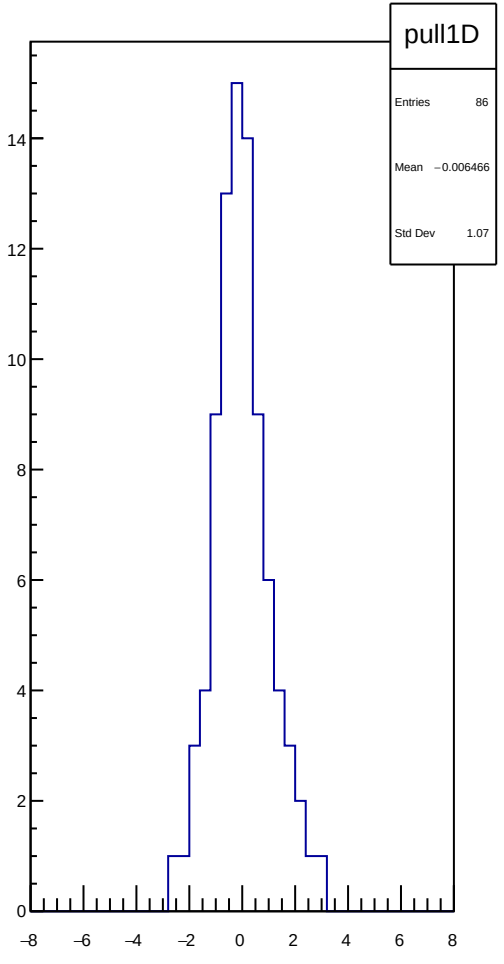

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.078e+05 / 85
p0 2.679e−11 ± 2.712e−14
0.25
0.2
0.15
0.1
0.05

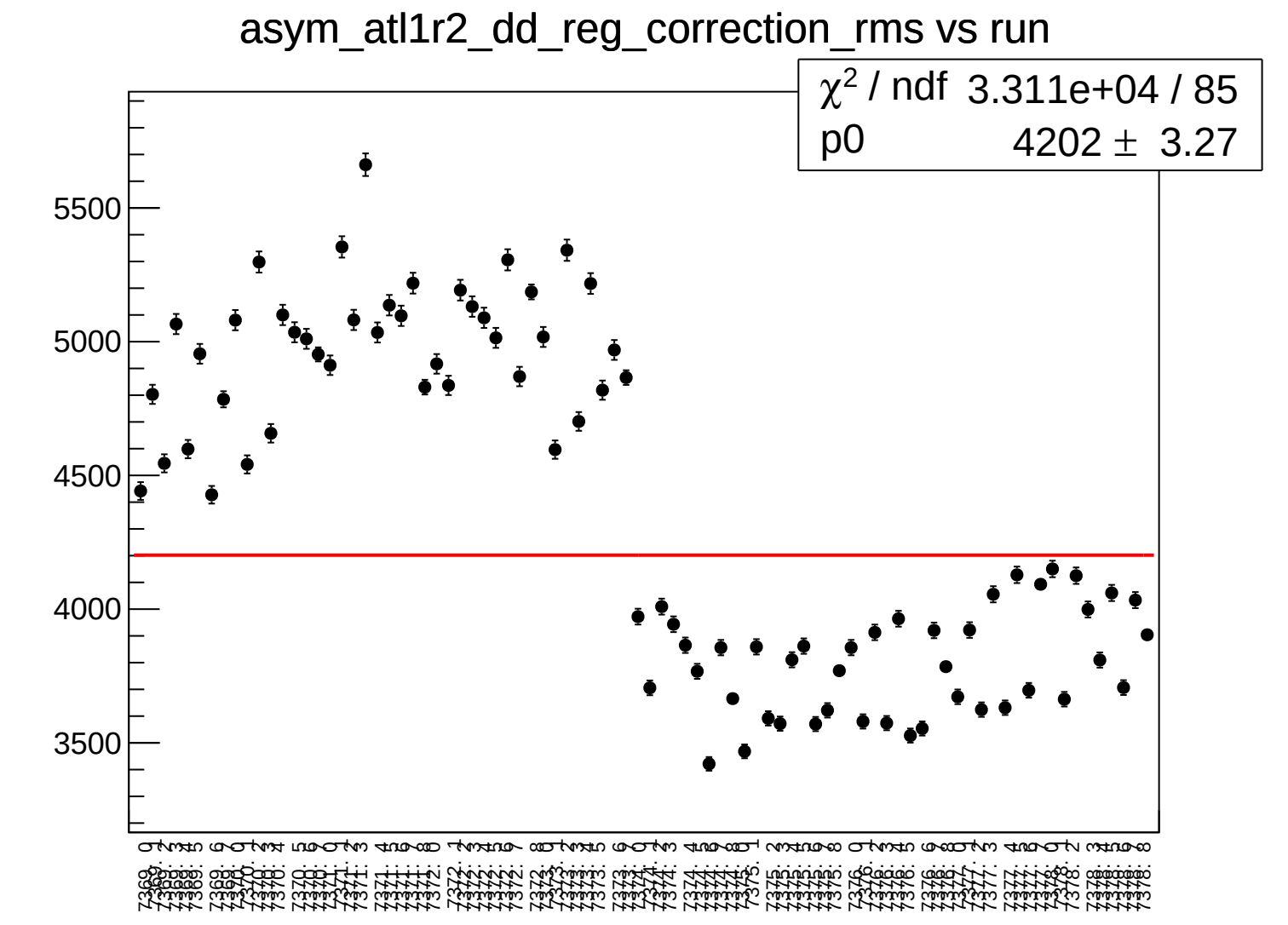

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 88.28 / 85
p0 −2352 ± 1839
pull
Entries 86
Mean 339.9
Std Dev 0

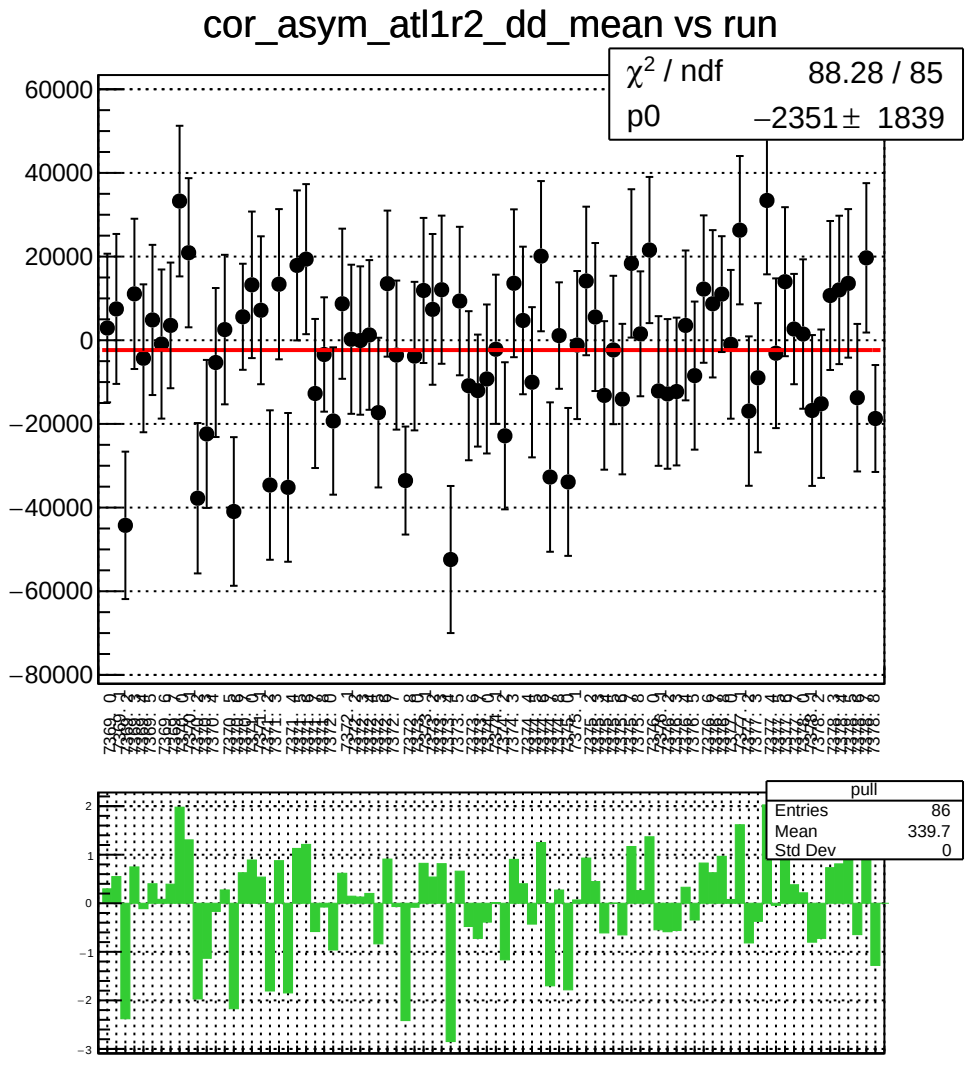

pull1D
Entries 86
Mean 0.009154
Std Dev 1.013

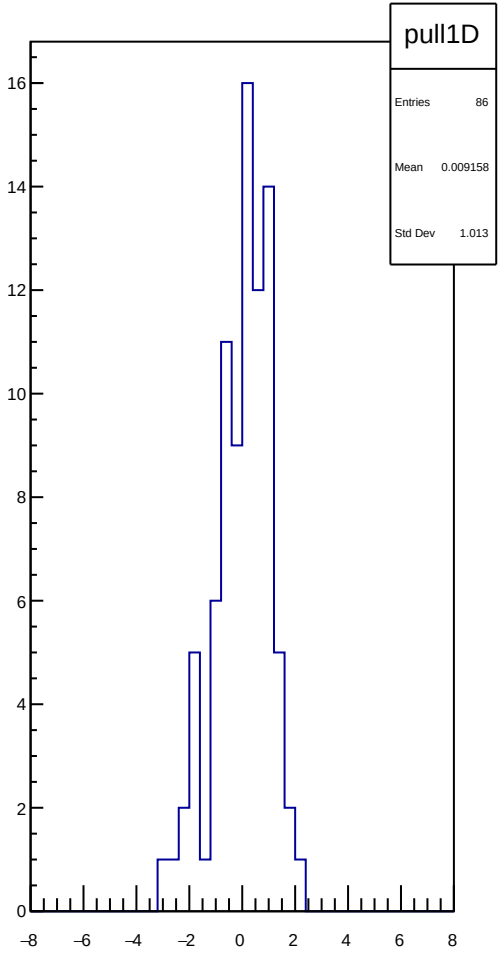

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 87.92 / 85
p0 1687 ± 1.3
1720
1700
1680
1660
1640

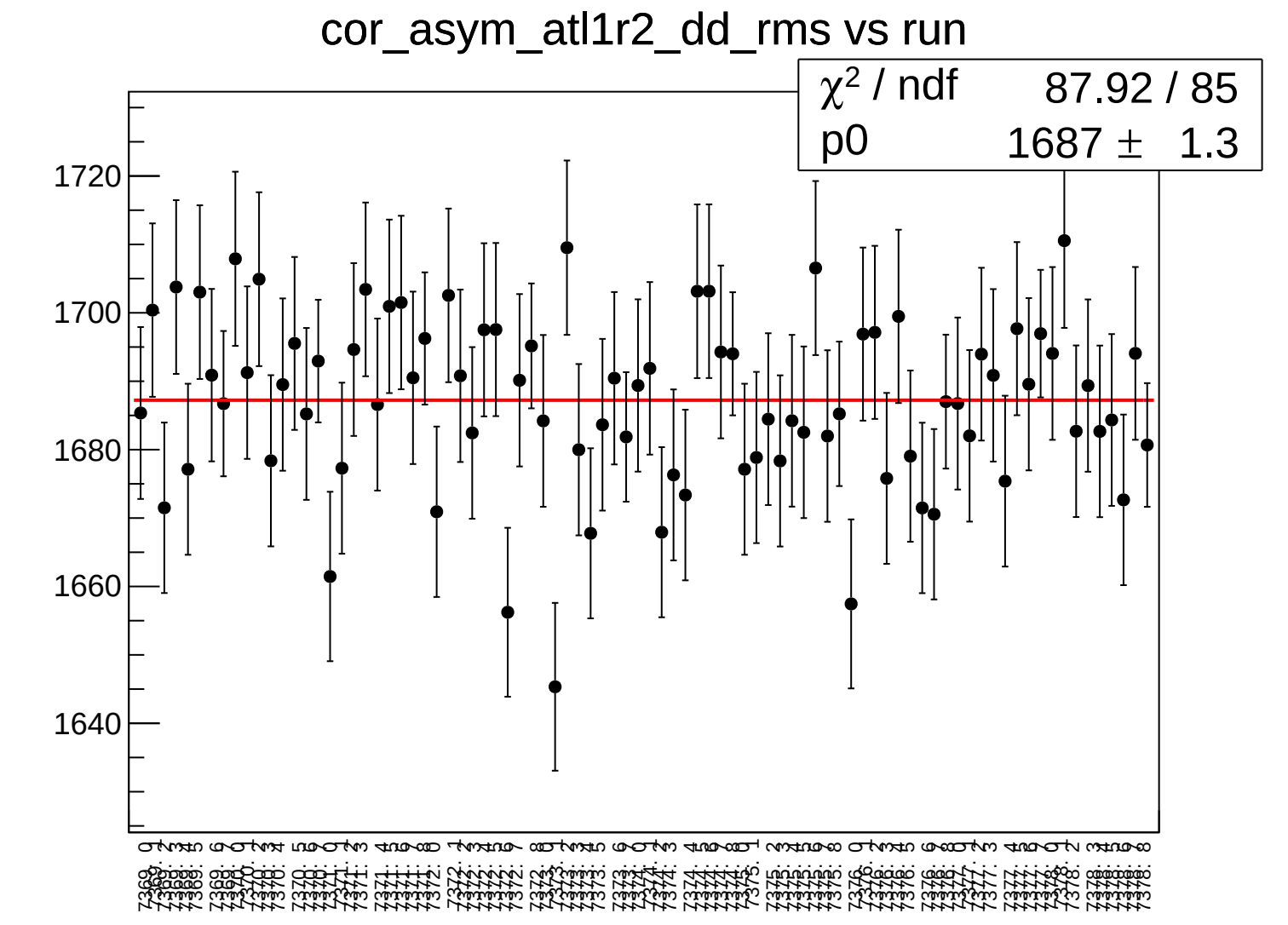

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 98.4 / 85
p0 5661 ± 4625
pull
Entries 86
Mean −159.1
Std Dev 0

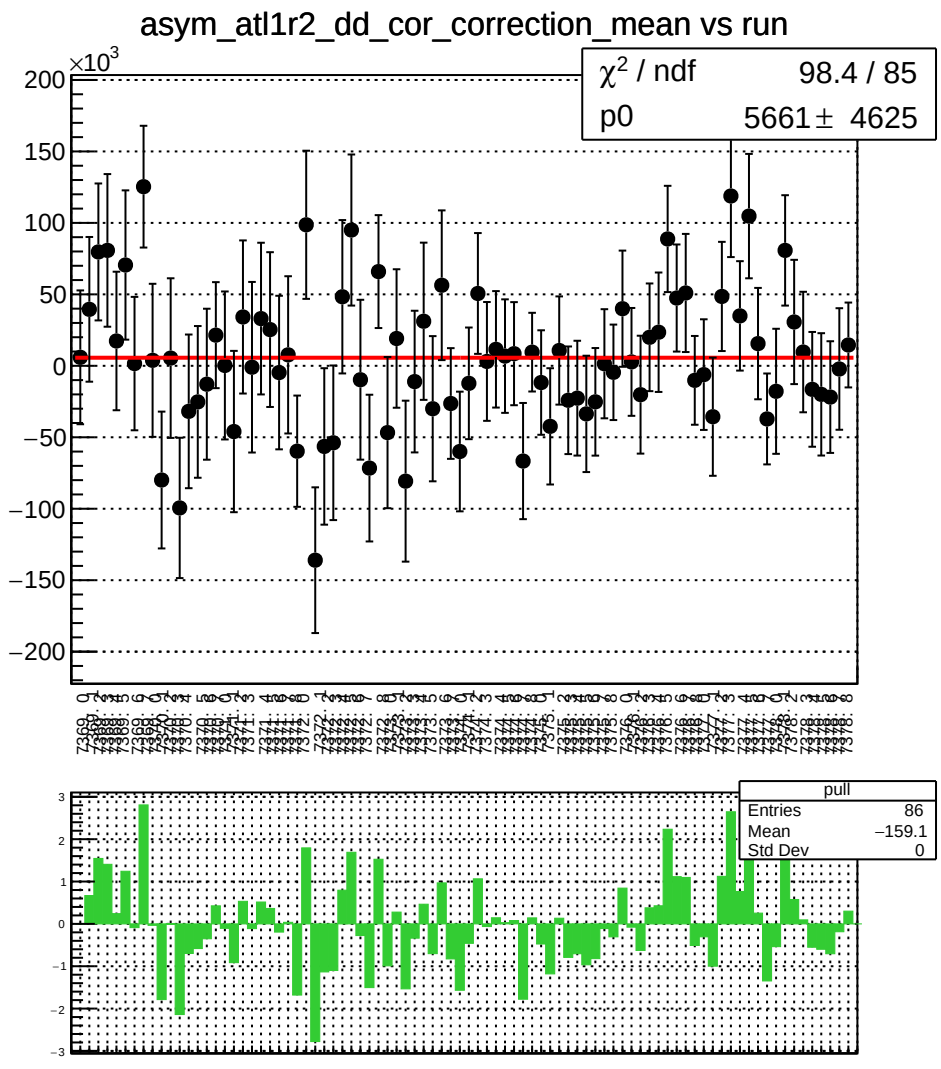

pull1D
Entries 86
Mean −0.006466
Std Dev 1.07

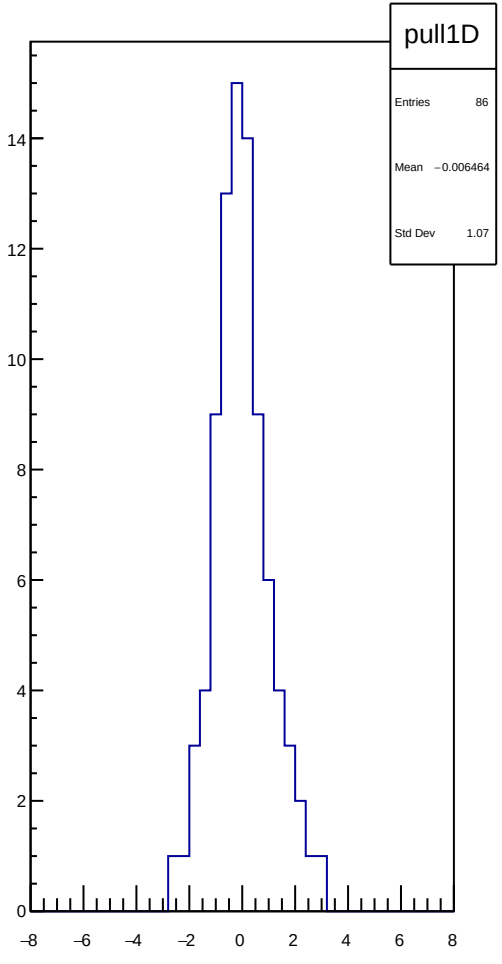

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3.311e+04 / 85
p0 4202 ± 3.27
5500
5000
4500
4000
3500

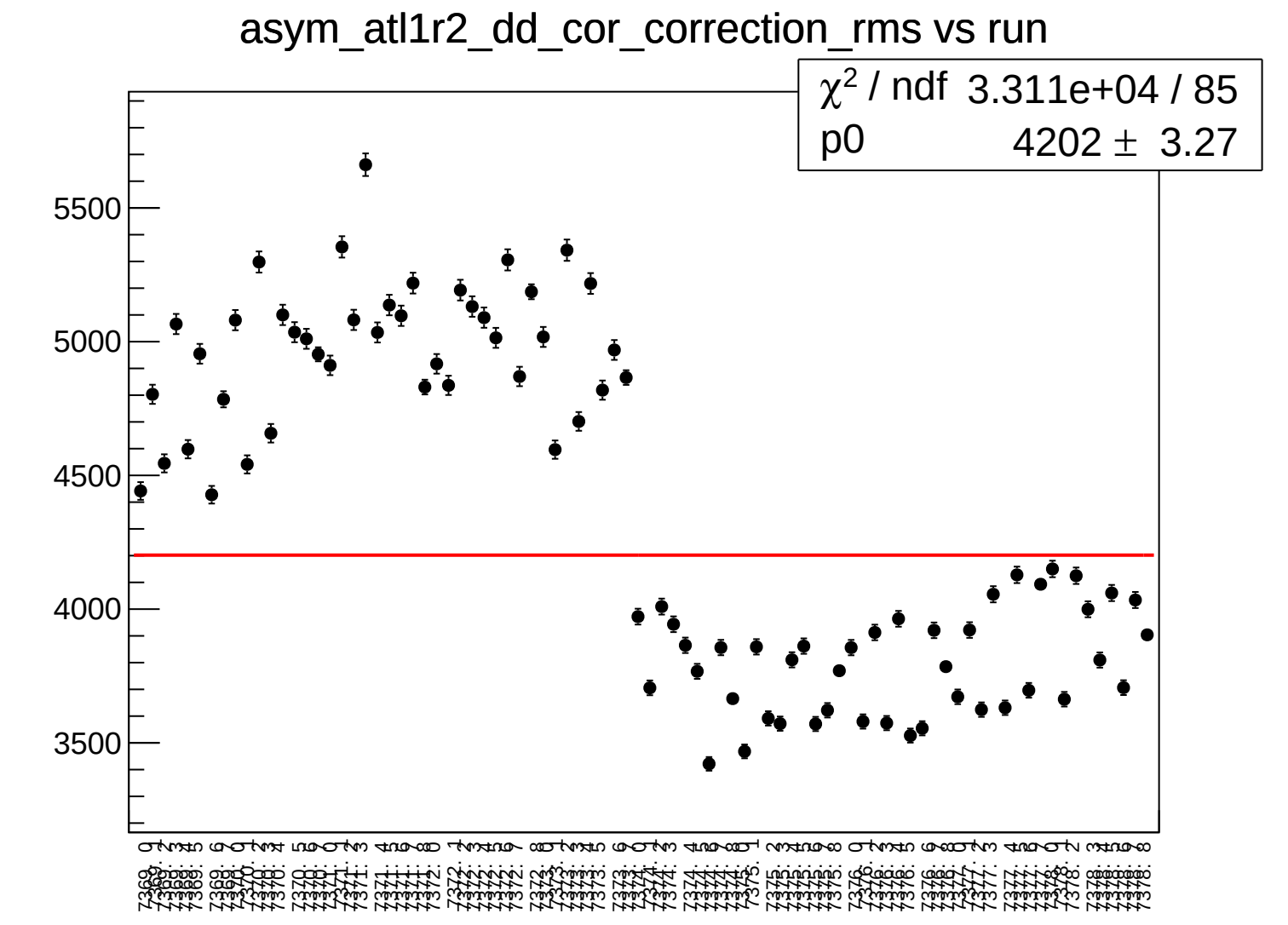

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 88.28 / 85
p0 −2351 ± 1839
pull
Entries 86
Mean 339.7
Std Dev 0

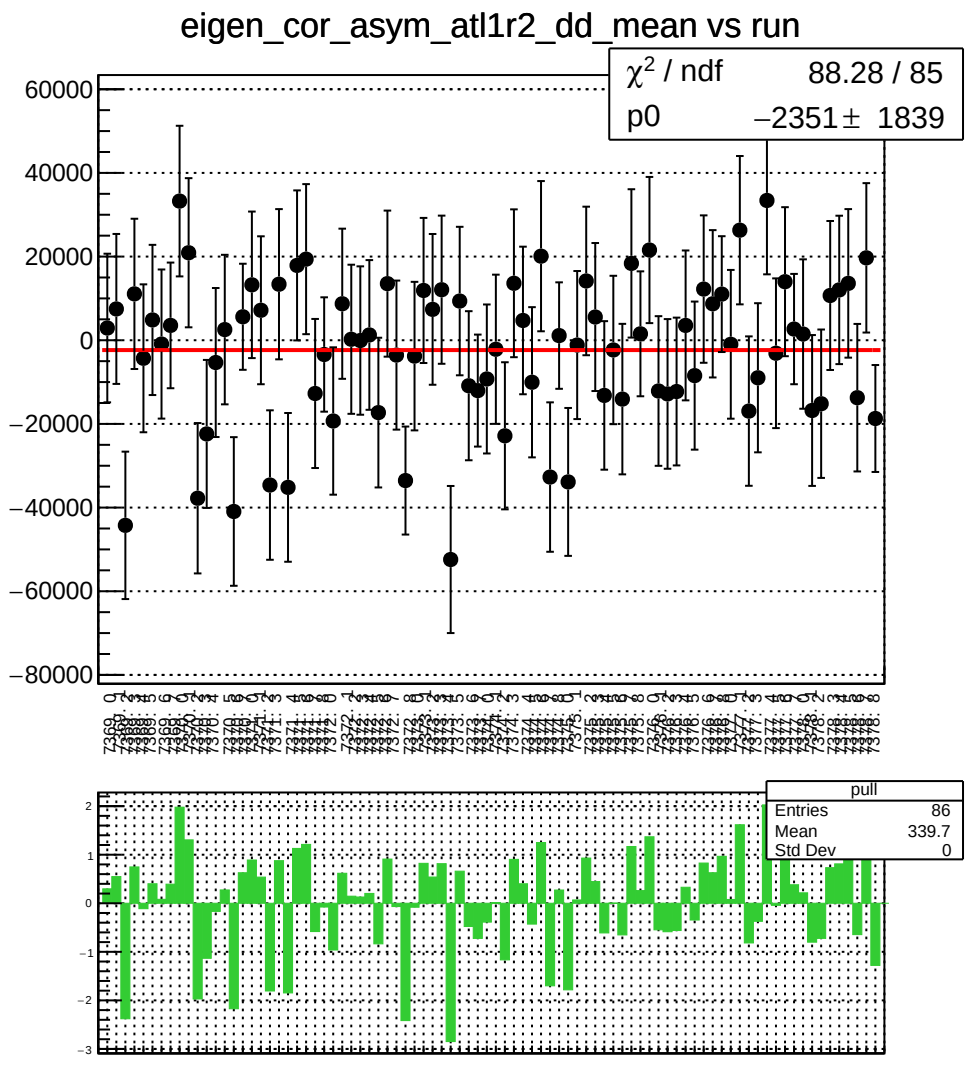

pull1D
Entries 86
Mean 0.009158
Std Dev 1.013

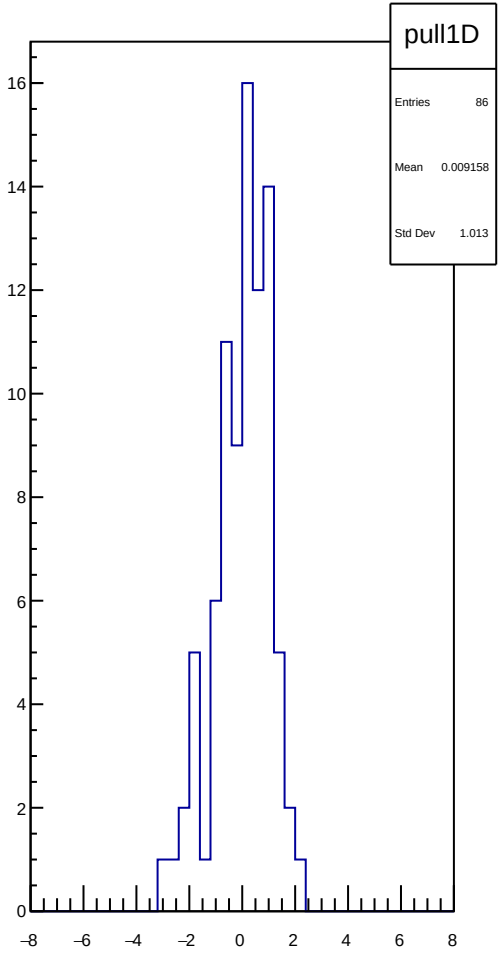

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 87.92 / 85
p0 1687 ± 1.3
1720
1700
1680
1660
1640

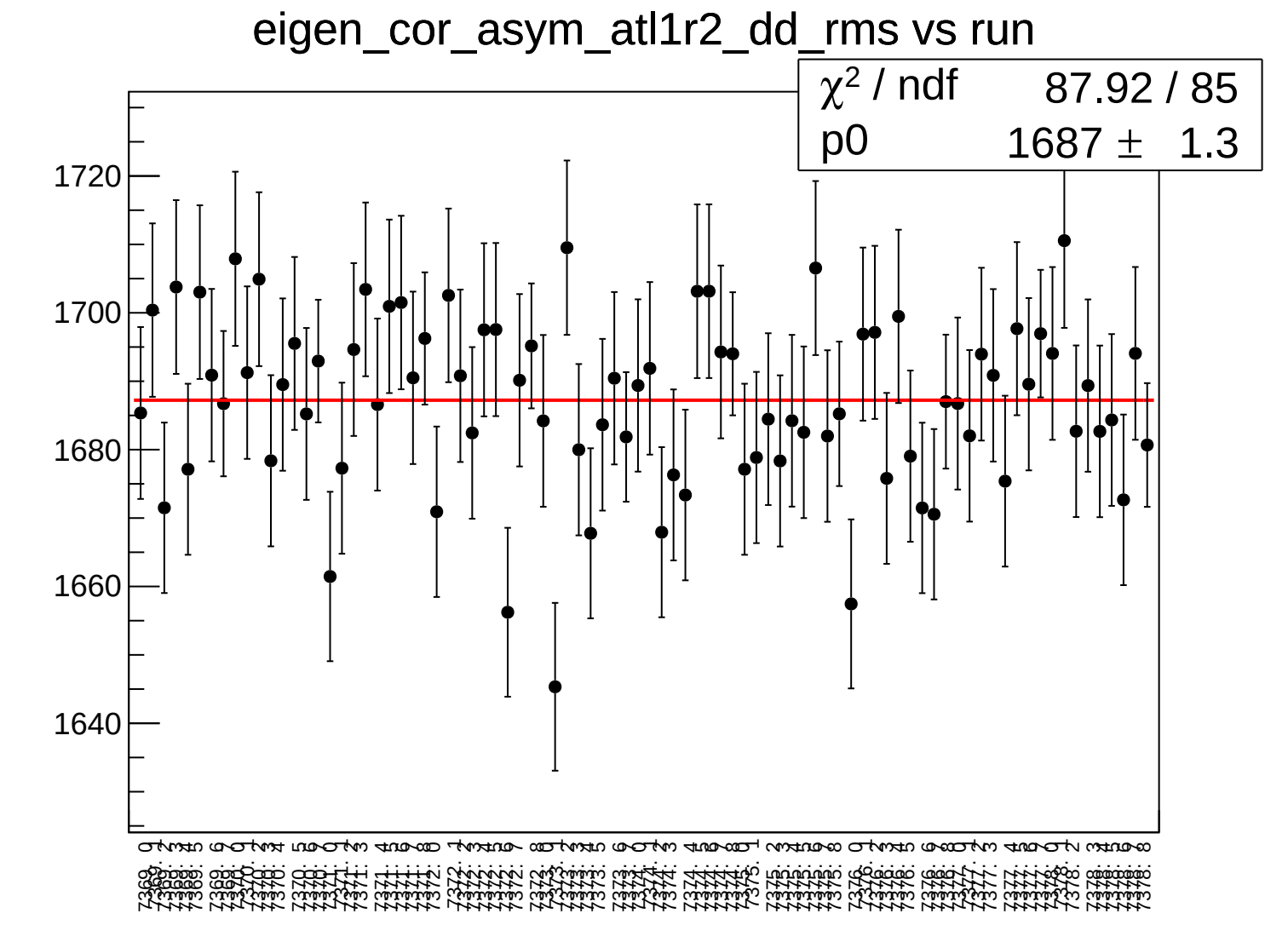

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.4 / 85
p0 5661 ± 4625
pull
Entries 86
Mean −159.1
Std Dev 0

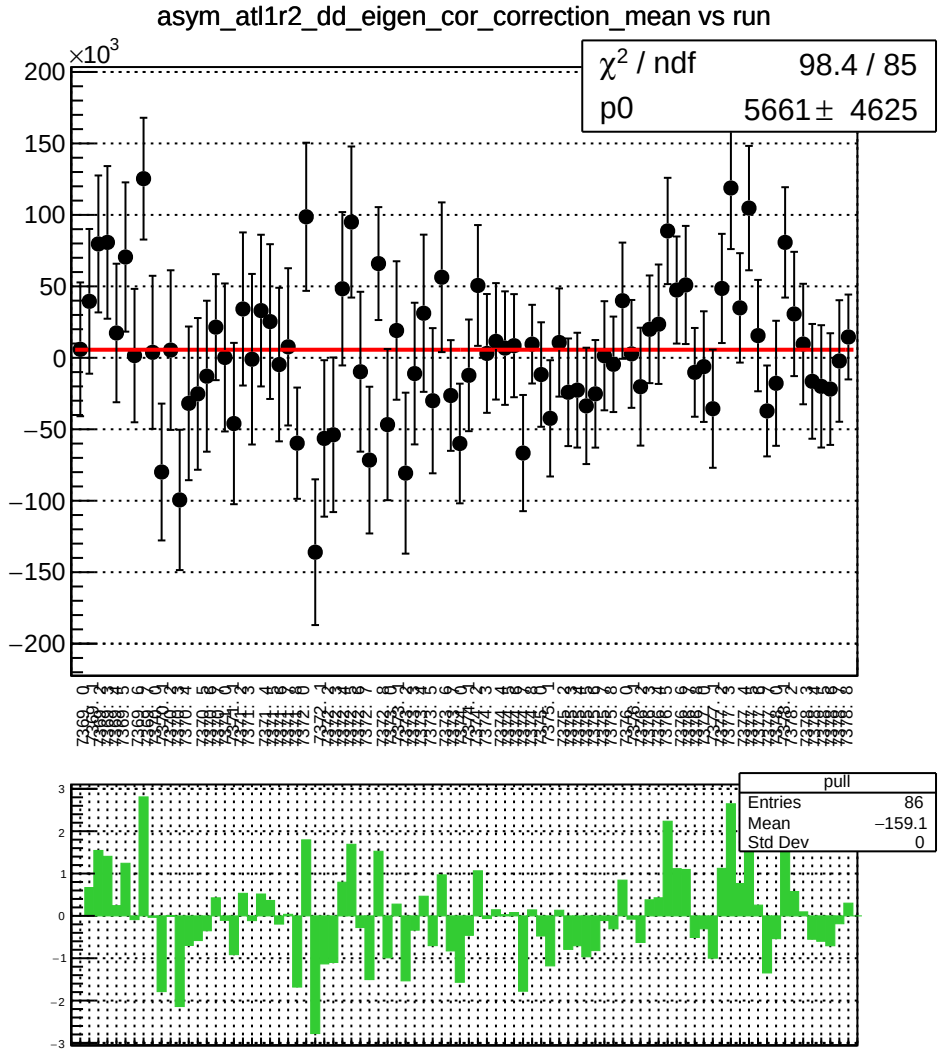

pull1D
Entries 86
Mean −0.006464
Std Dev 1.07

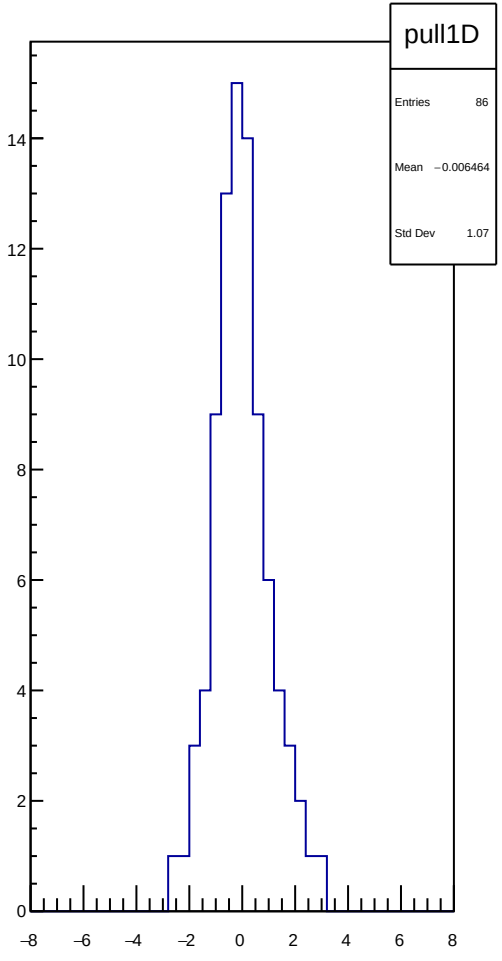

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3.311e+04 / 85
p0 4202 ± 3.27
5500
5000
4500
4000
3500

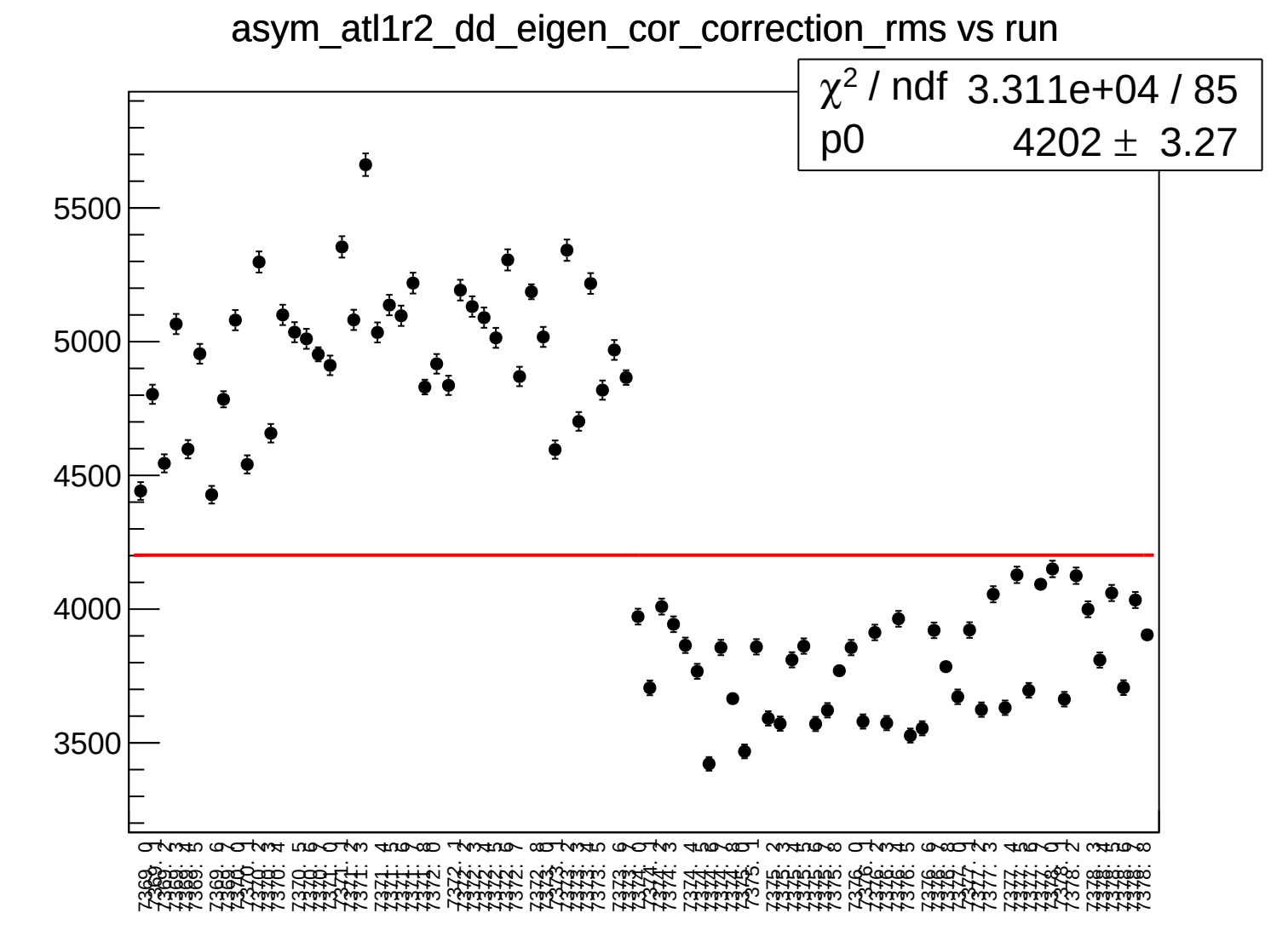

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 88.28 / 85
p0 −2351 ± 1839
pull
Entries 86
Mean 339.7
Std Dev 0

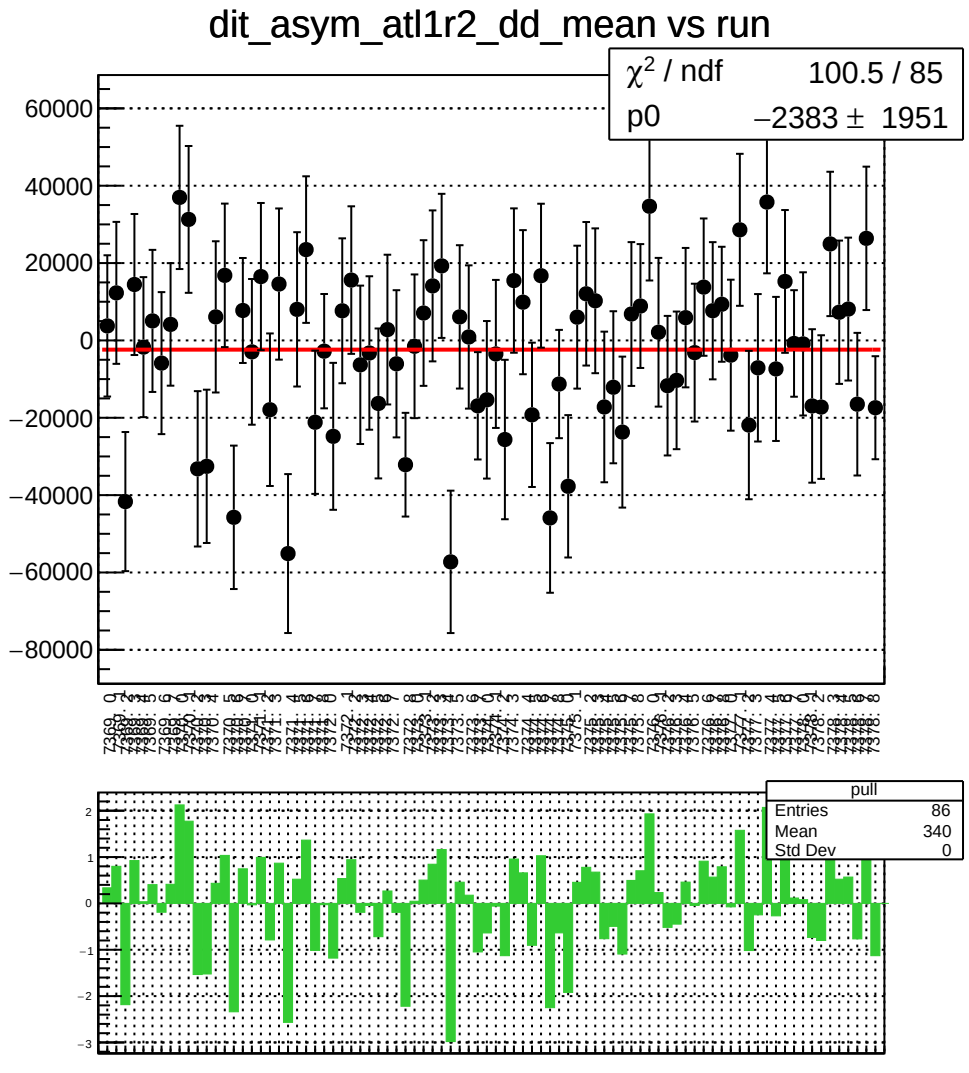

pull1D
Entries 86
Mean 0.009158
Std Dev 1.013

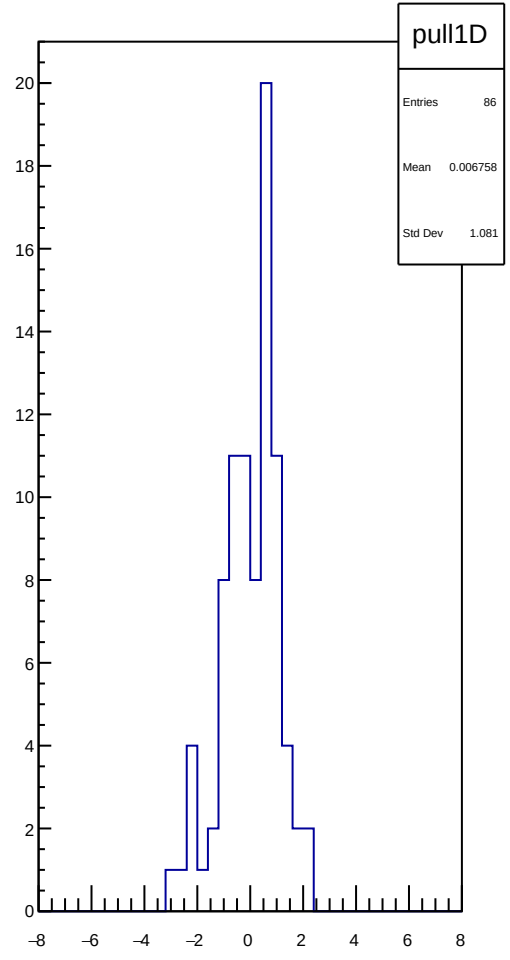

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 87.92 / 85
p0 1687 ± 1.3
1720
1700
1680
1660
1640

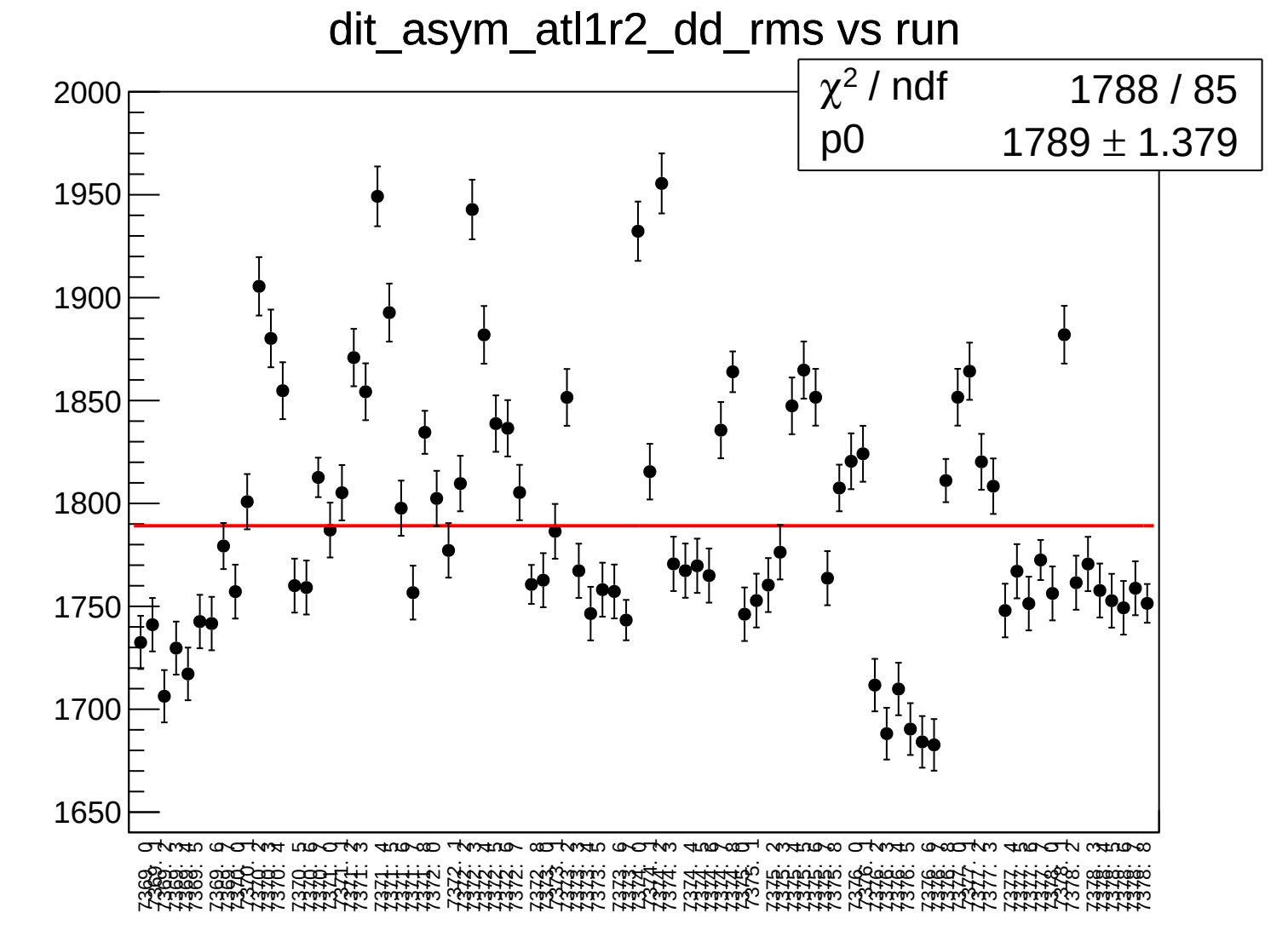

asym_atl1r2_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.4 / 85
p0 5661 ± 4625
×10³
pull
Entries 86
Mean −159.1
Std Dev 0

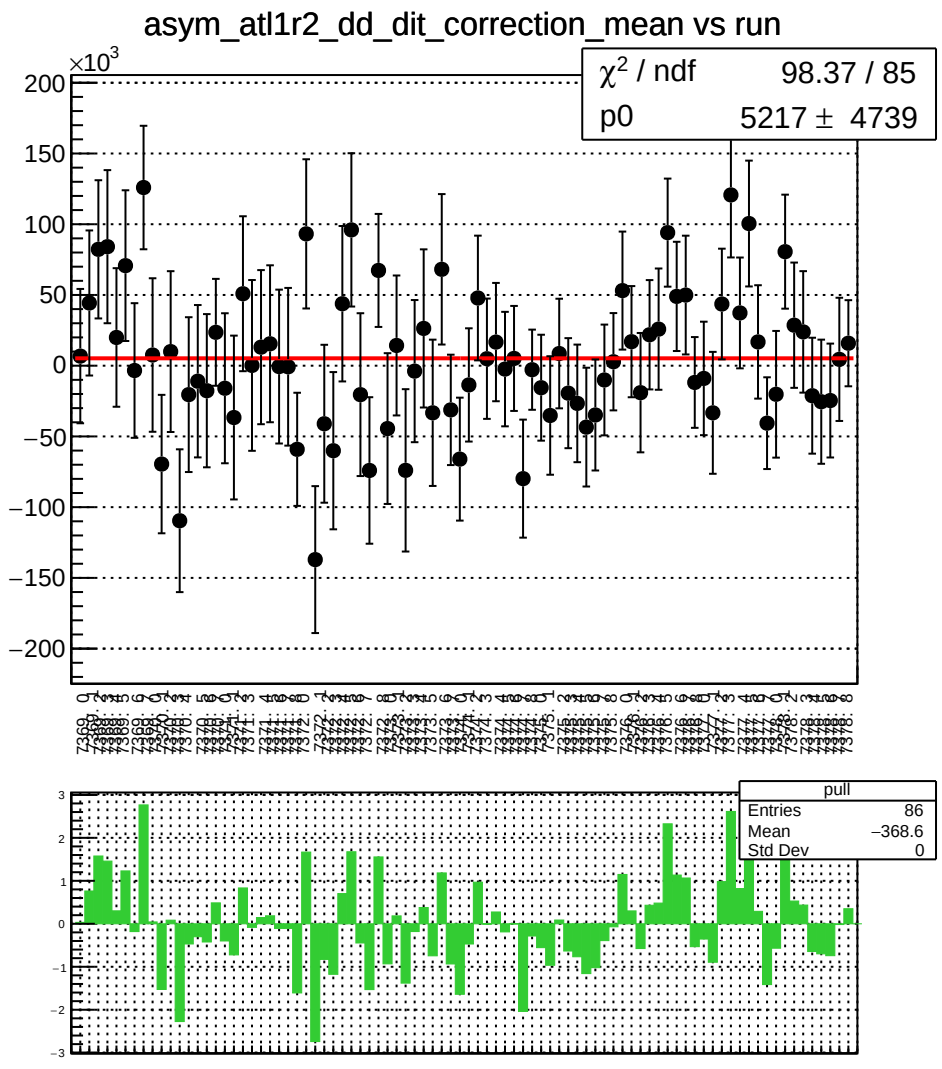

pull1D
Entries 86
Mean −0.006464
Std Dev 1.07

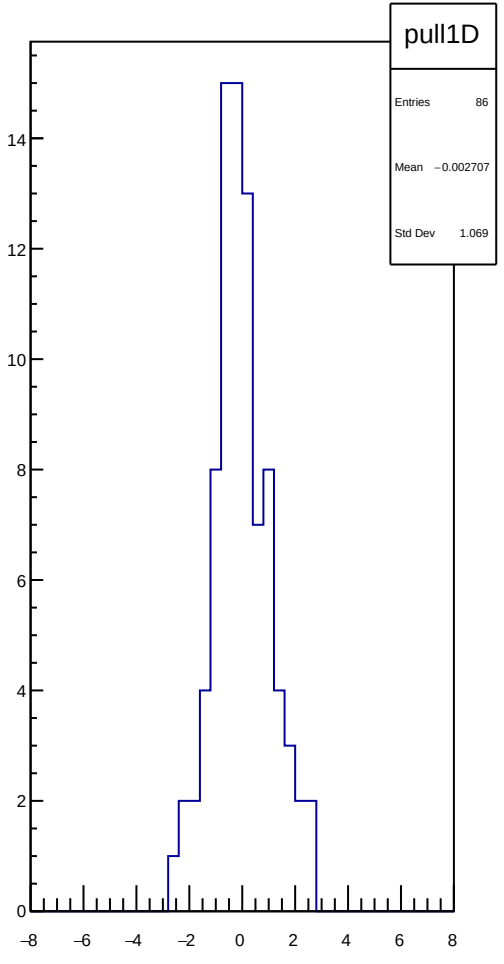

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.311e+04 / 85
p0 4202 ± 3.27
5500
5000
4500
4000
3500

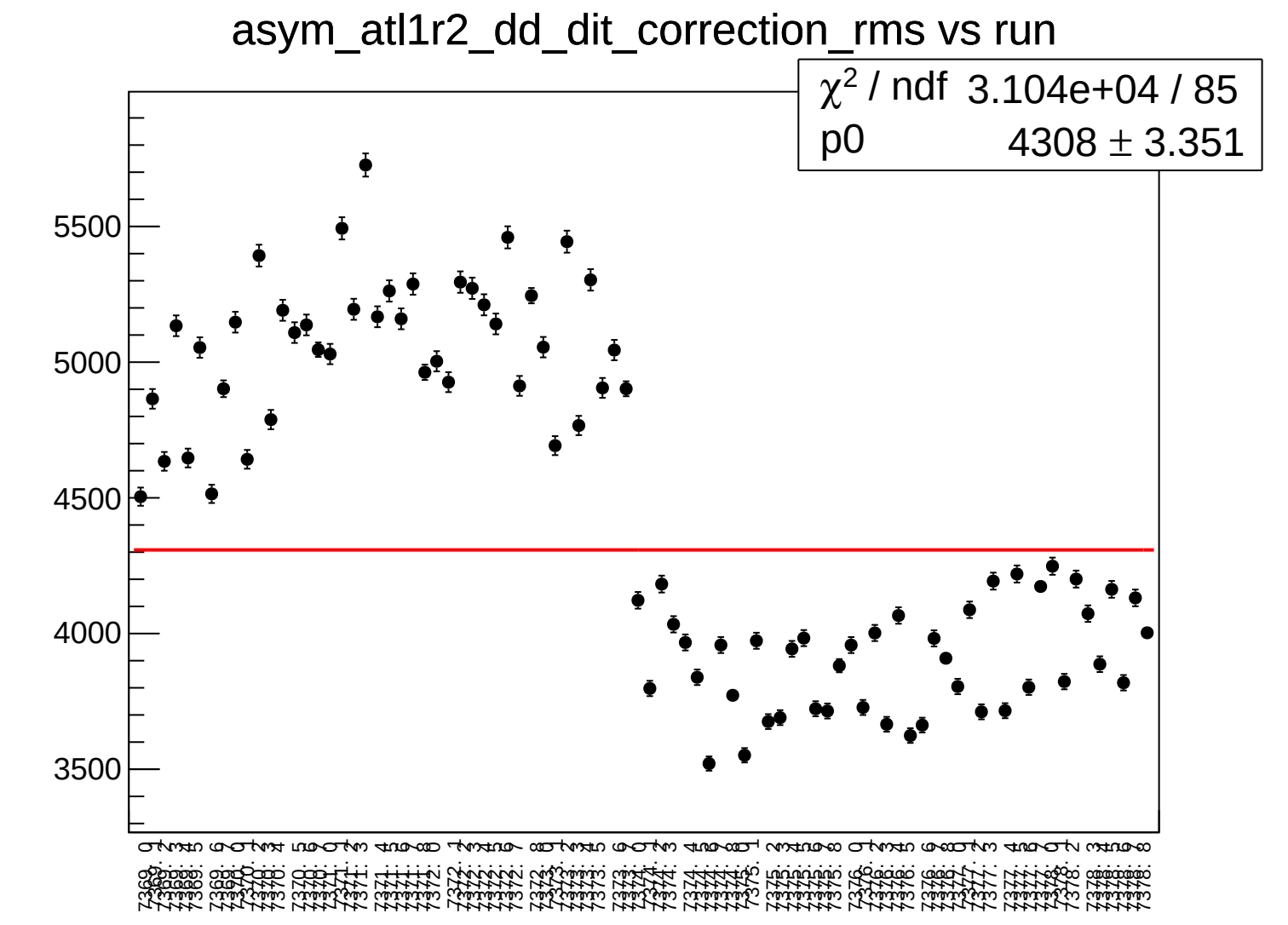

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 100.5 / 85
p0 −2383 ± 1951
pull
Entries 86
Mean 340
Std Dev 0

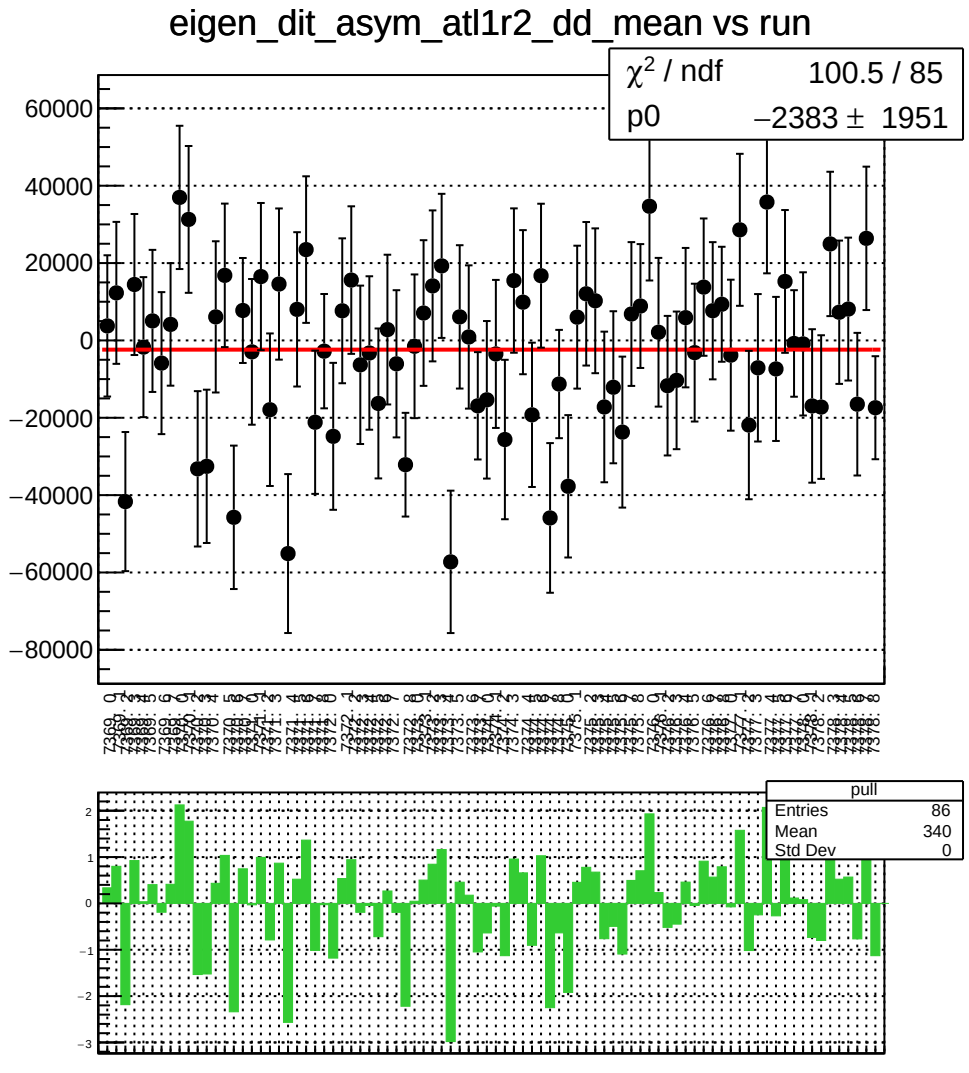

pull1D
Entries 86
Mean 0.006758
Std Dev 1.081

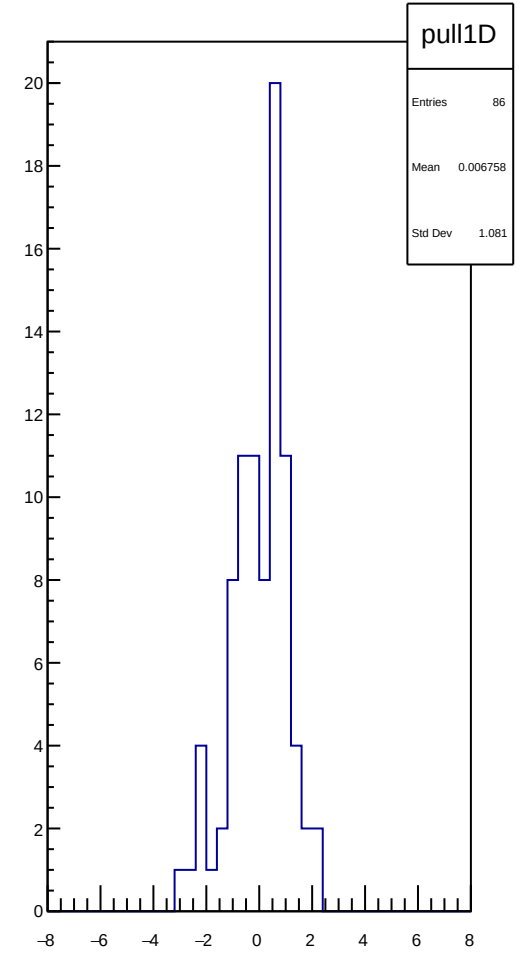

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1788 / 85
p0 1789 ± 1.379
2000
1950
1900
1850
1800
1750
1700
1650

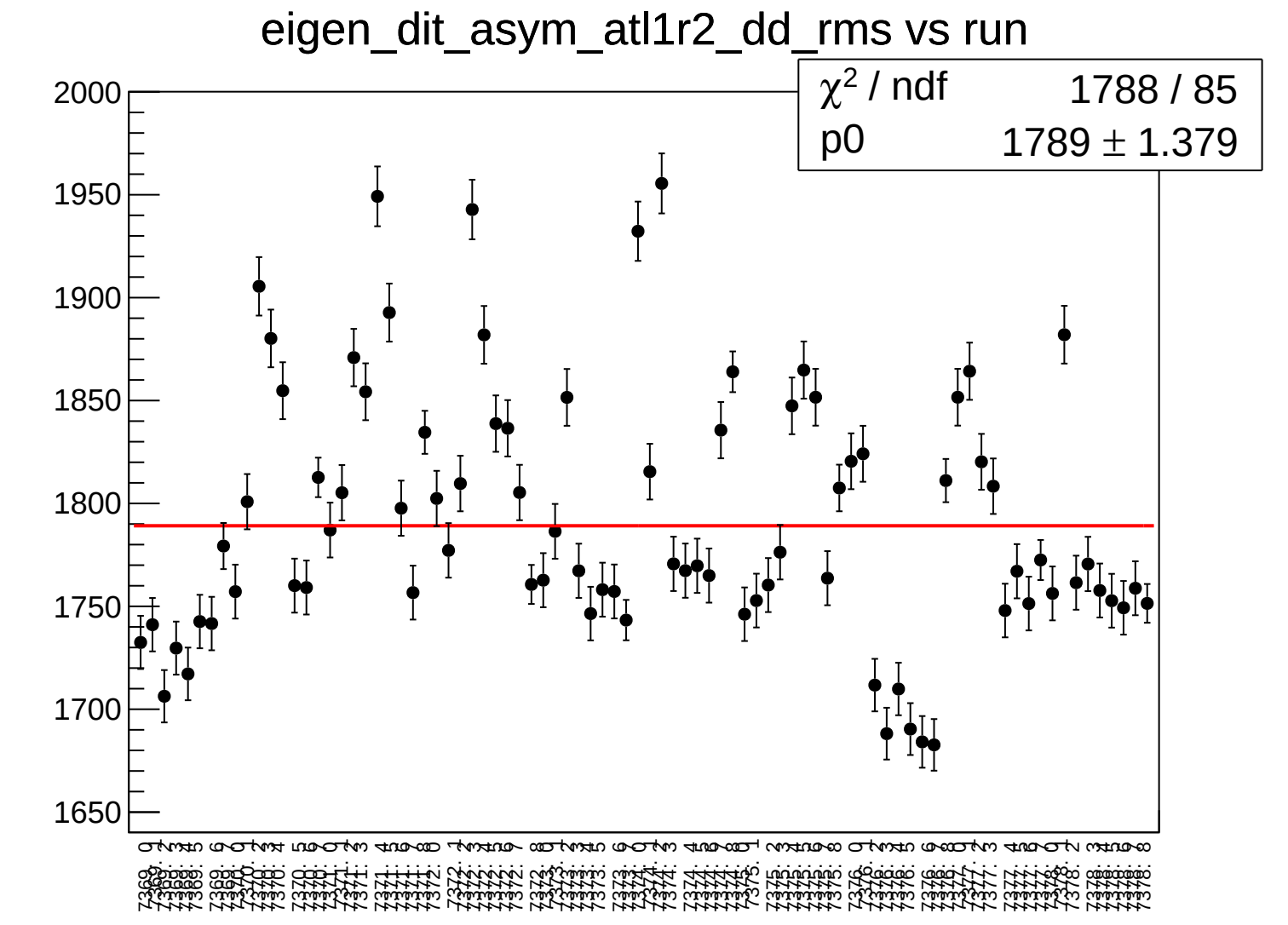

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 98.37 / 85
p0 5217 ± 4739
pull
Entries 86
Mean −368.6
Std Dev 0

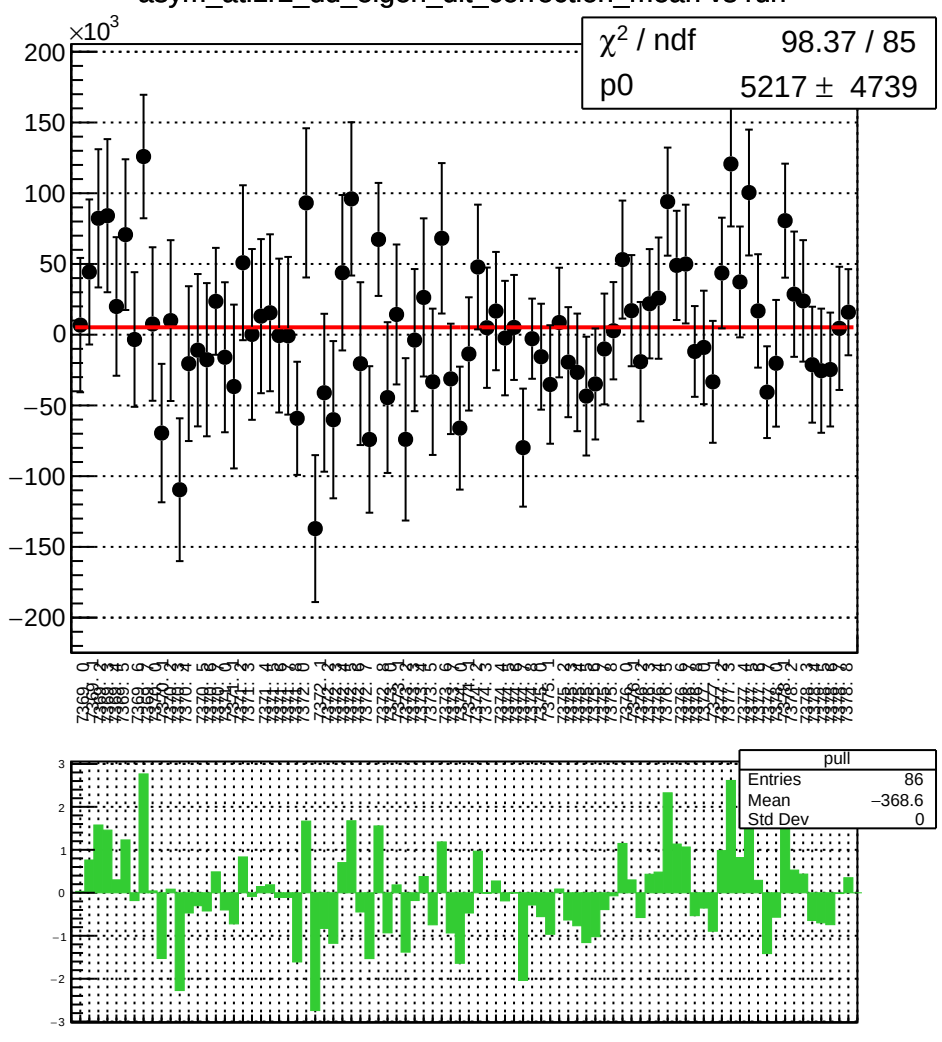

pull1D
Entries 86
Mean −0.002707
Std Dev 1.069

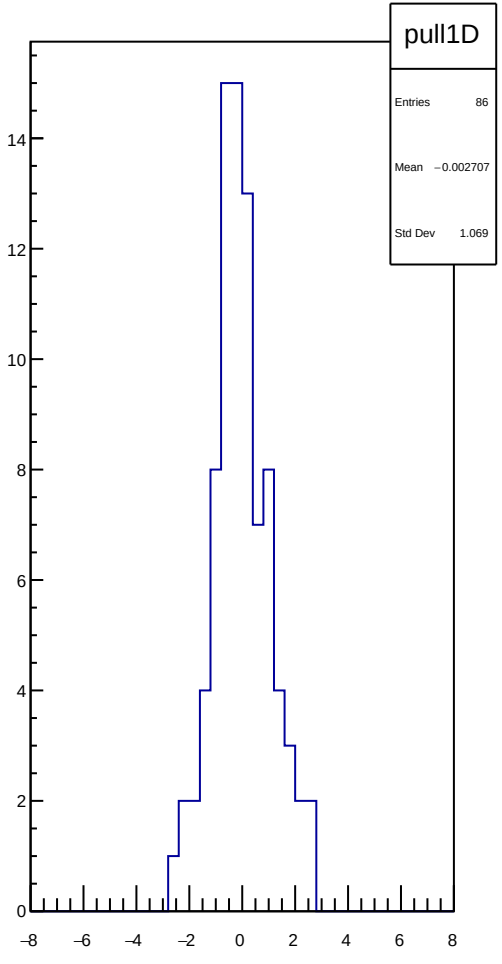

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 3.104e+04 / 85
p0 4308 ± 3.351
5500
5000
4500
4000
3500

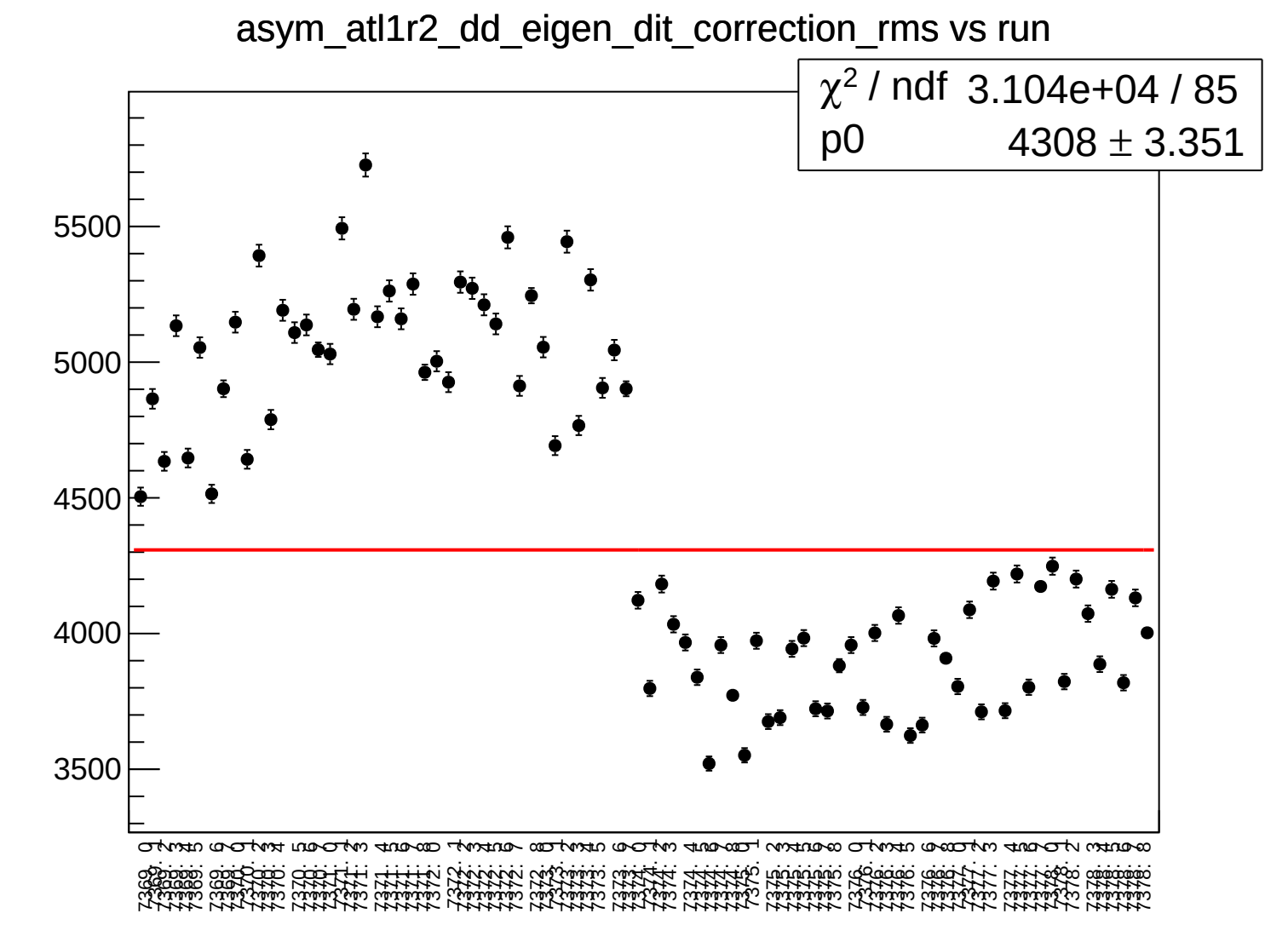

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 100.5 / 85
p0 −2383 ± 1951
pull
Entries 86
Mean 340
Std Dev 0

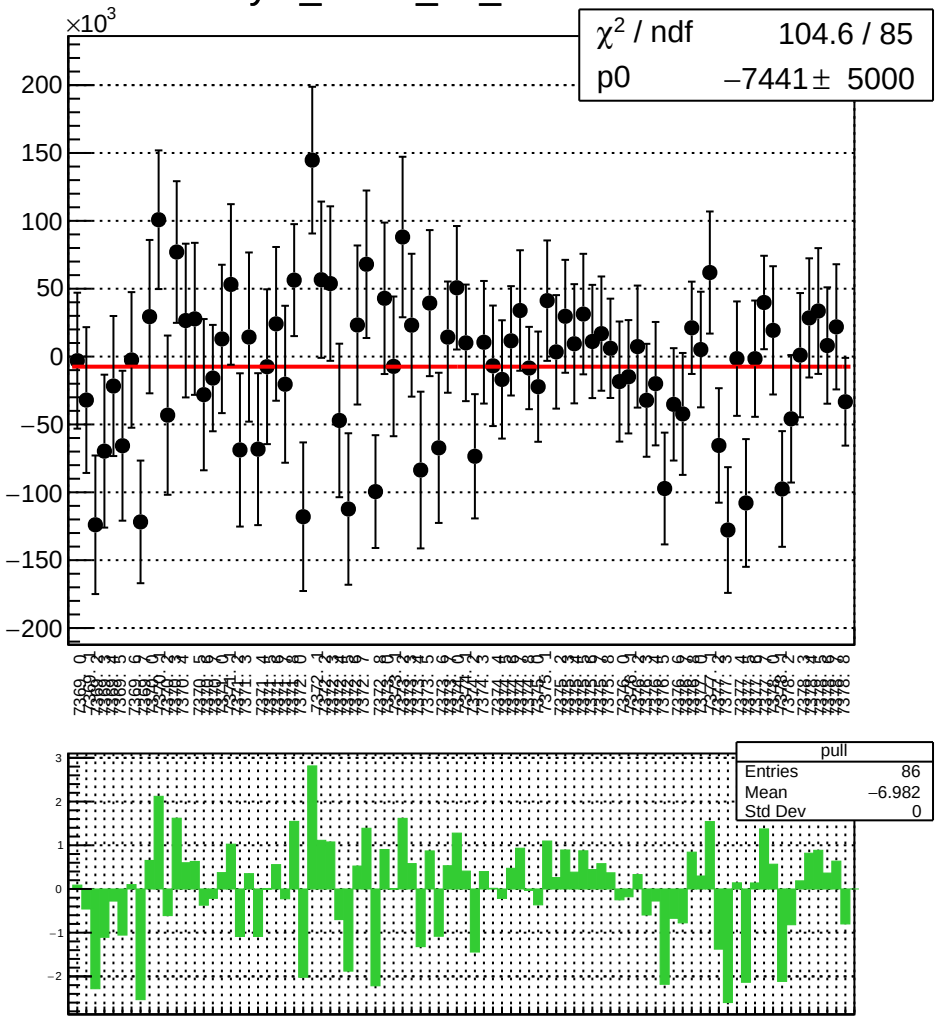

pull1D
Entries 86
Mean 0.006758
Std Dev 1.081

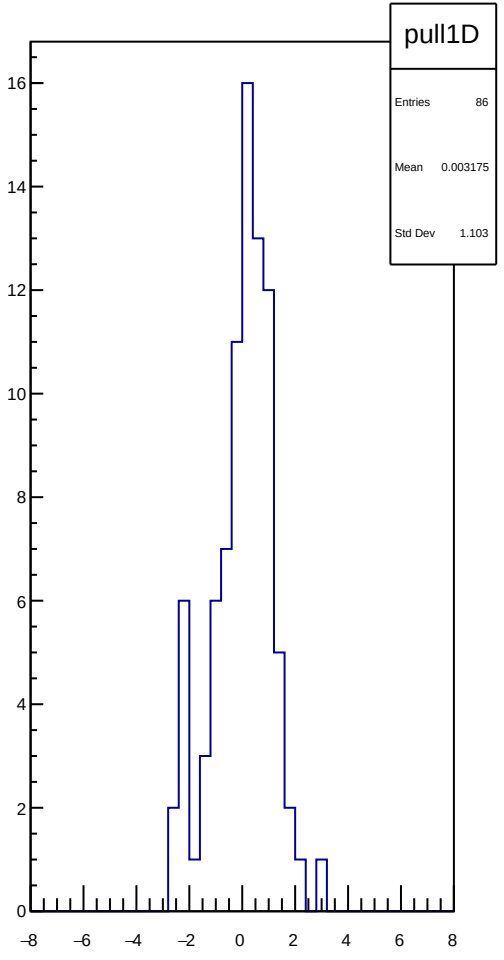

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1788 / 85
p0 1789 ± 1.379
2000
1950
1900
1850
1800
1750
1700
1650

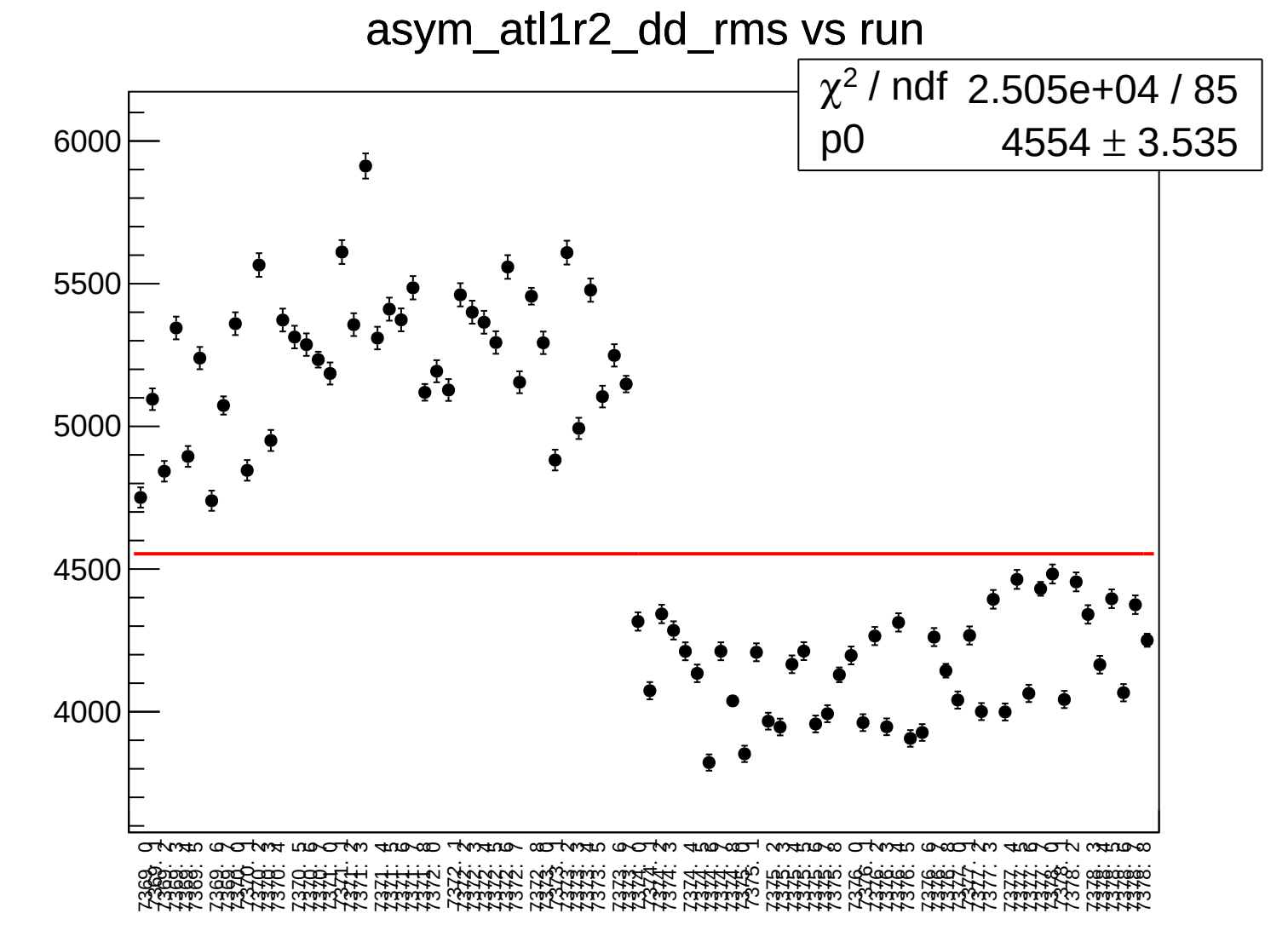

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.37 / 85
p0 5217 ± 4739
pull
Entries 86
Mean −368.6
Std Dev 0

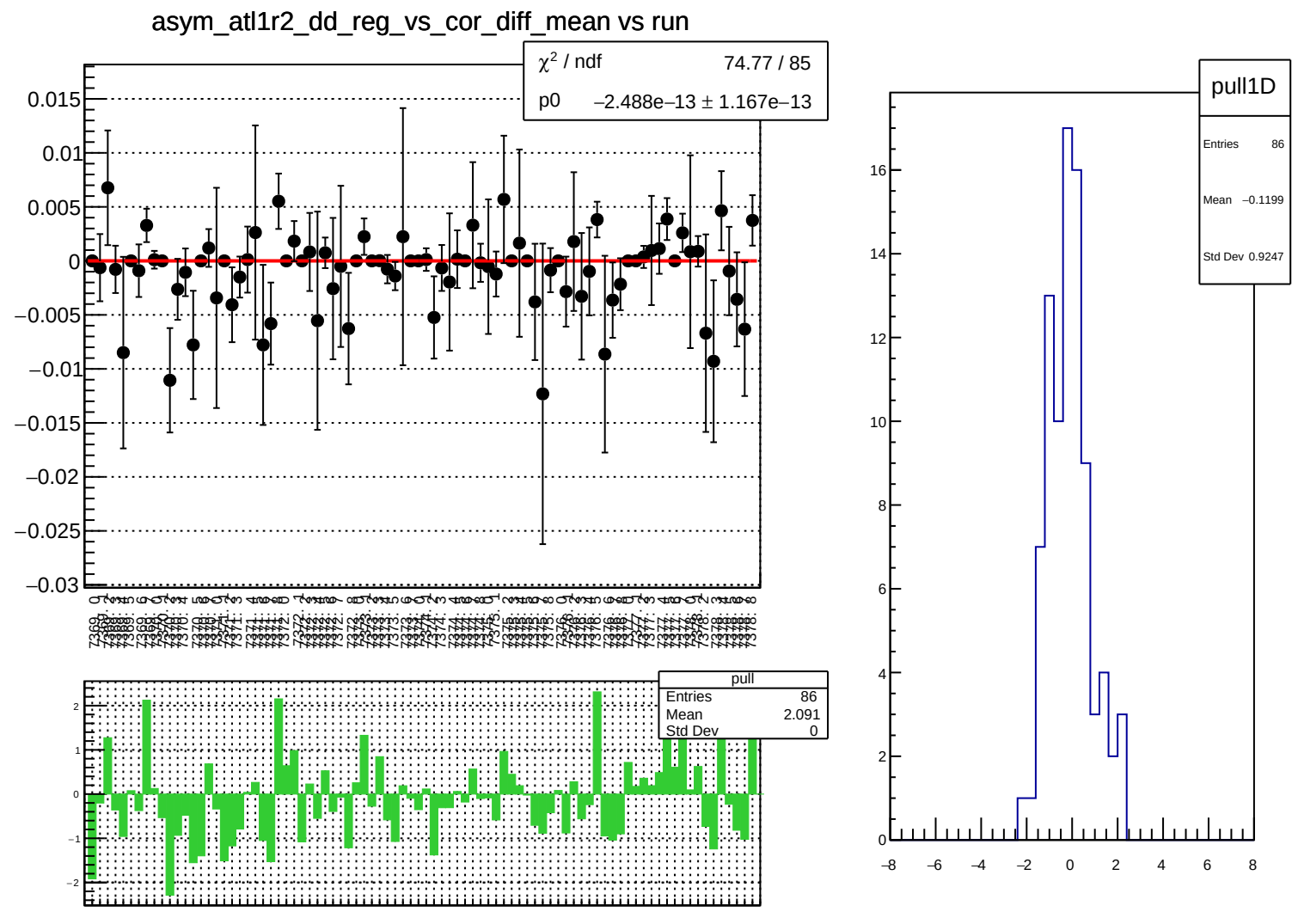

pull1D
Entries 86
Mean −0.002707
Std Dev 1.069

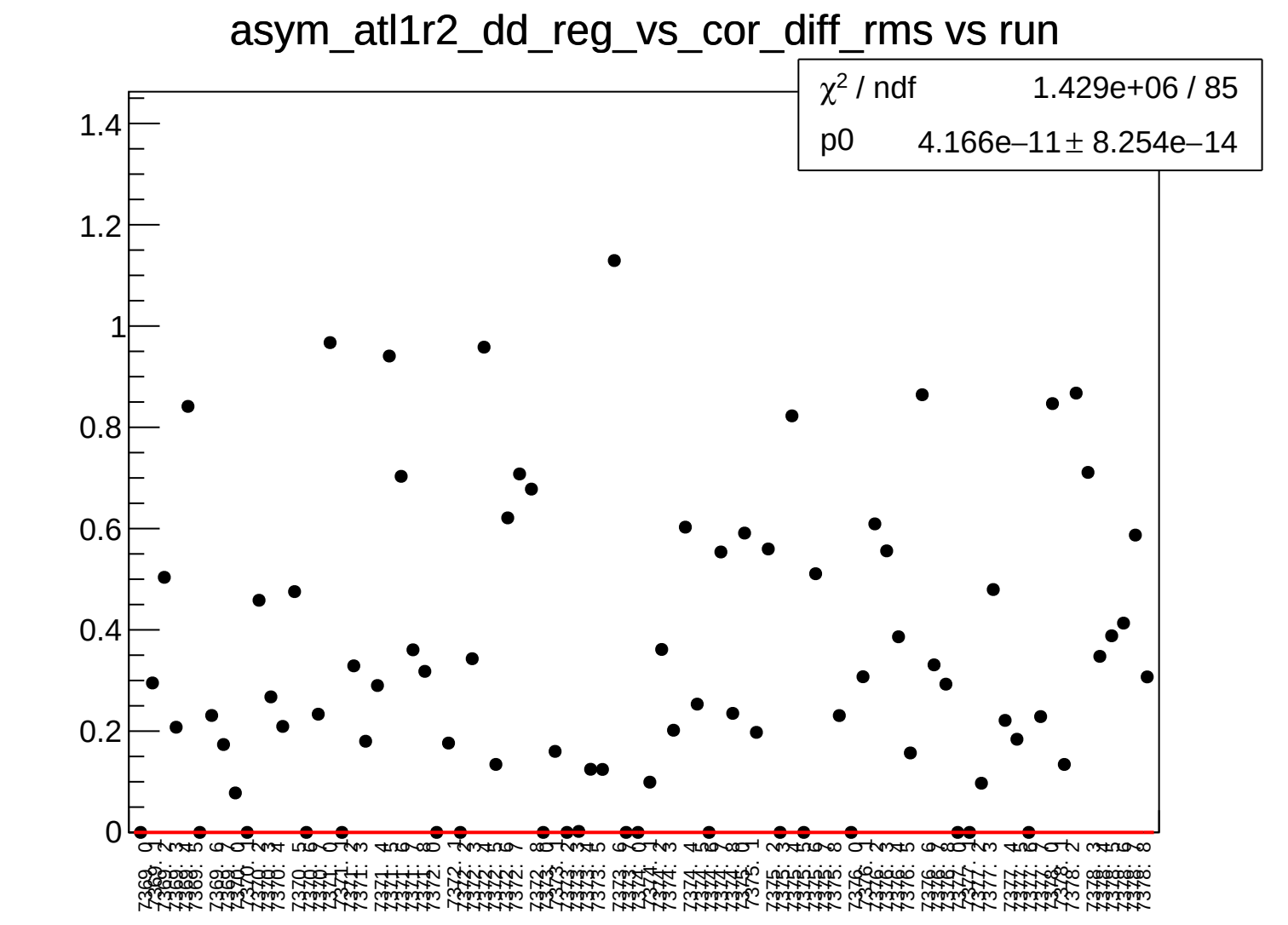

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.104e+04 / 85
p0 4308 ± 3.351
5500
5000
4500
4000
3500

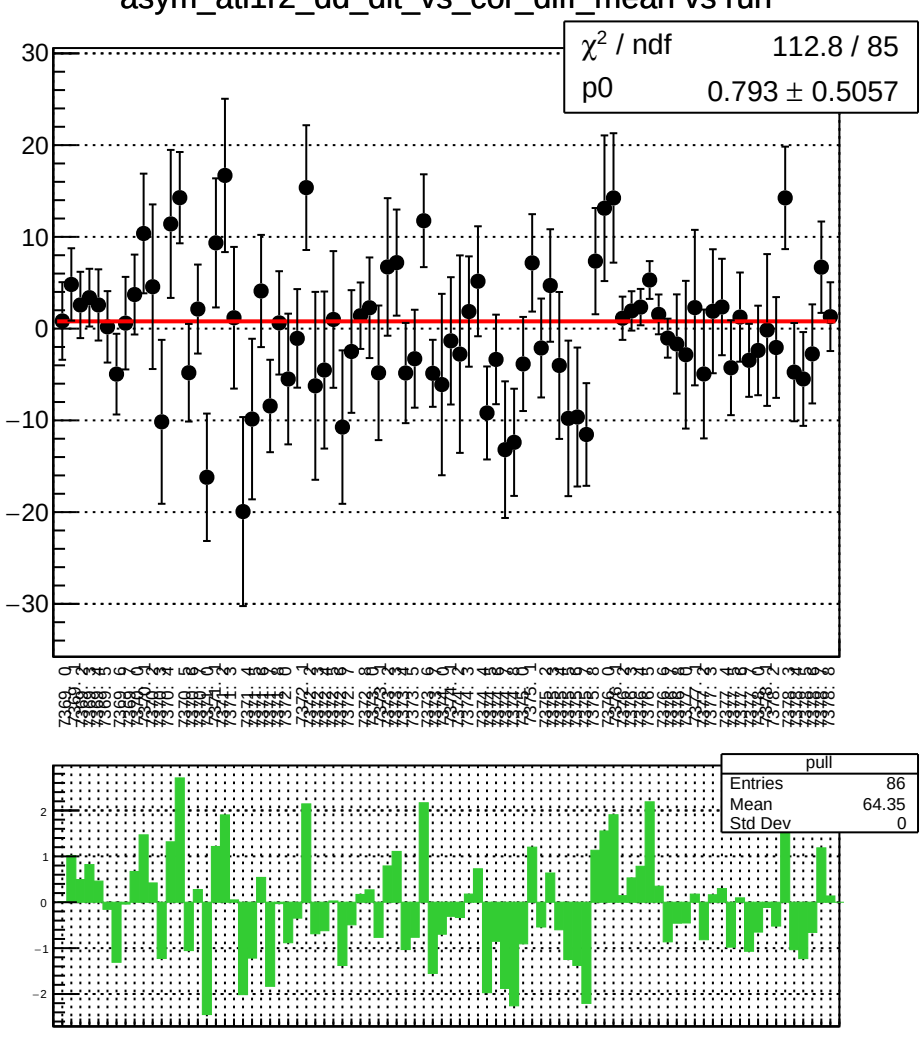

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 104.6 / 85
p0 −7441 ± 5000
pull
Entries 86
Mean −6.982
Std Dev 0

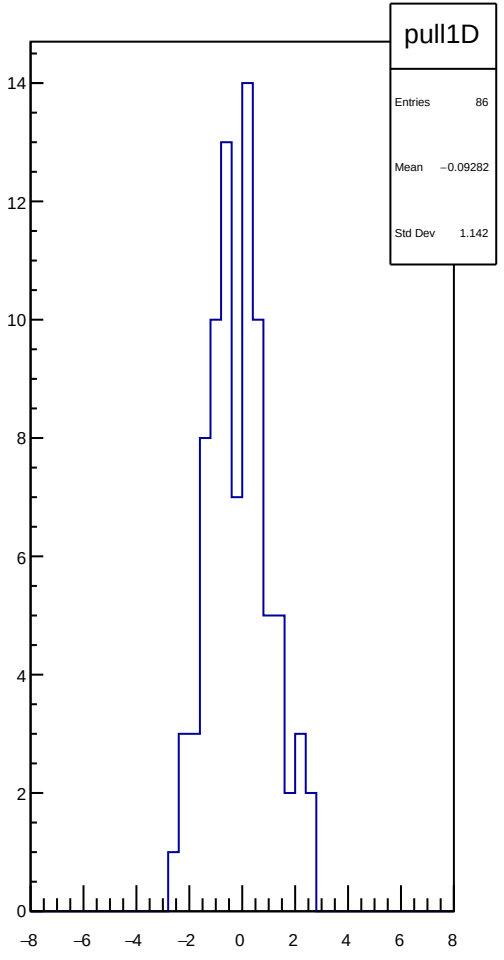

pull1D
Entries 86
Mean 0.003175
Std Dev 1.103

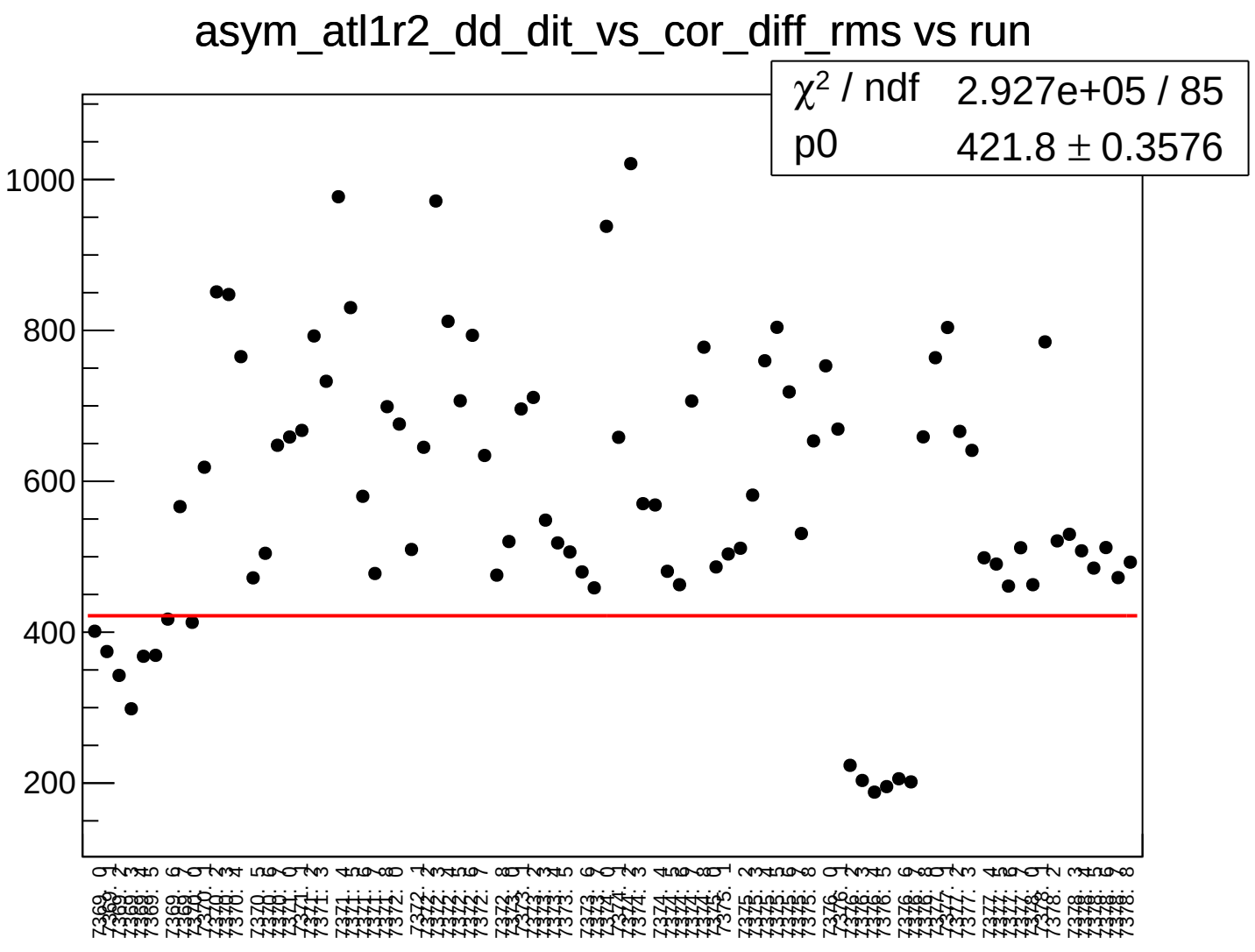

asym_atl1r2_dd_rms vs run
χ² / ndf 2.505e+04 / 85
p0 4554 ± 3.535
6000
5500
5000
4500
4000

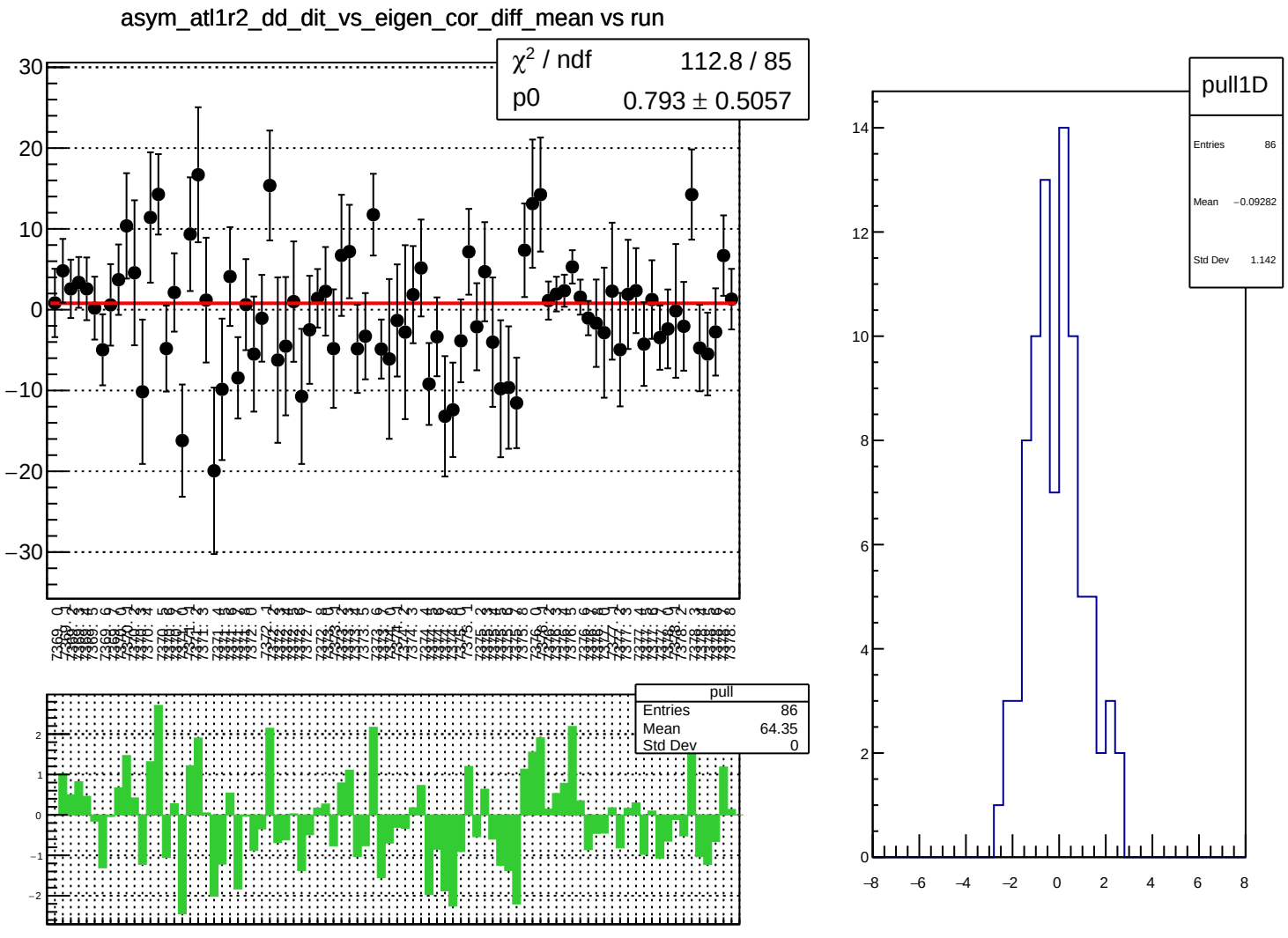

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.77 / 85
p0 −2.488e−13 ± 1.167e−13
pull
Entries 86
Mean 2.091
Std Dev 0
pull1D
Entries 86
Mean −0.1199
Std Dev 0.9247

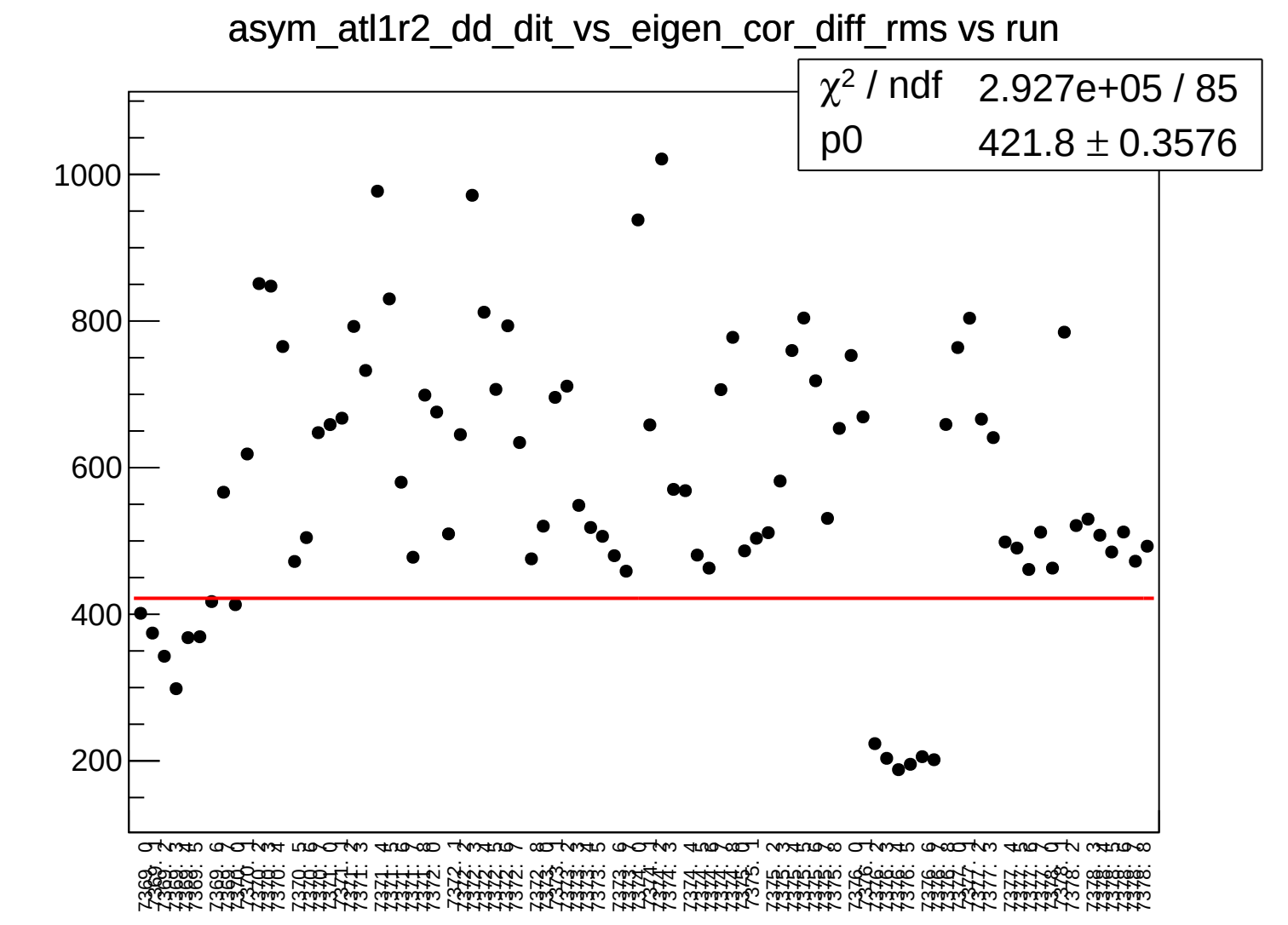

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.429e+06 / 85
p0 4.166e−11 ± 8.254e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

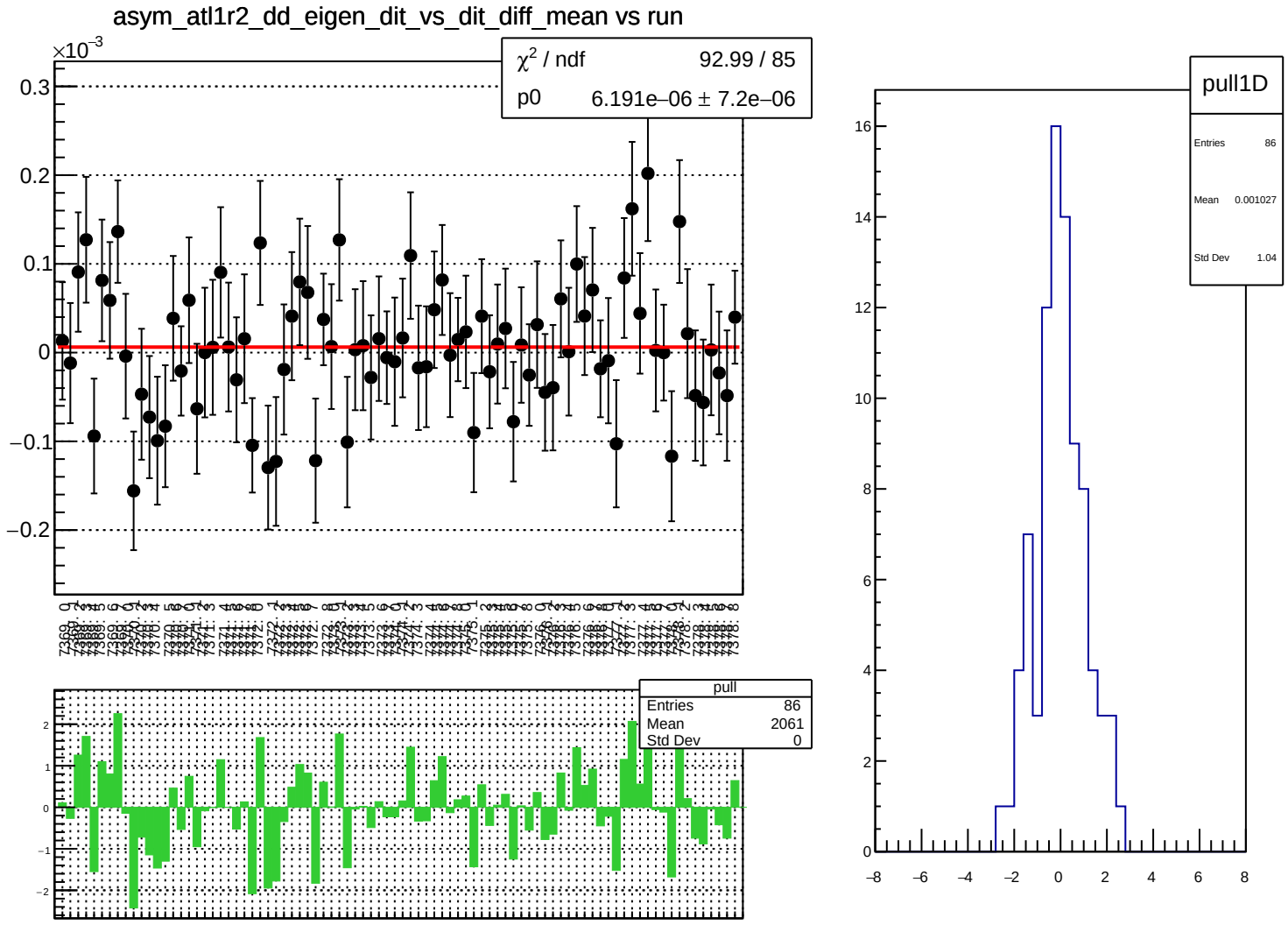

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.8 / 85
p0 0.793 ± 0.5057
pull
Entries 86
Mean 64.35
Std Dev 0

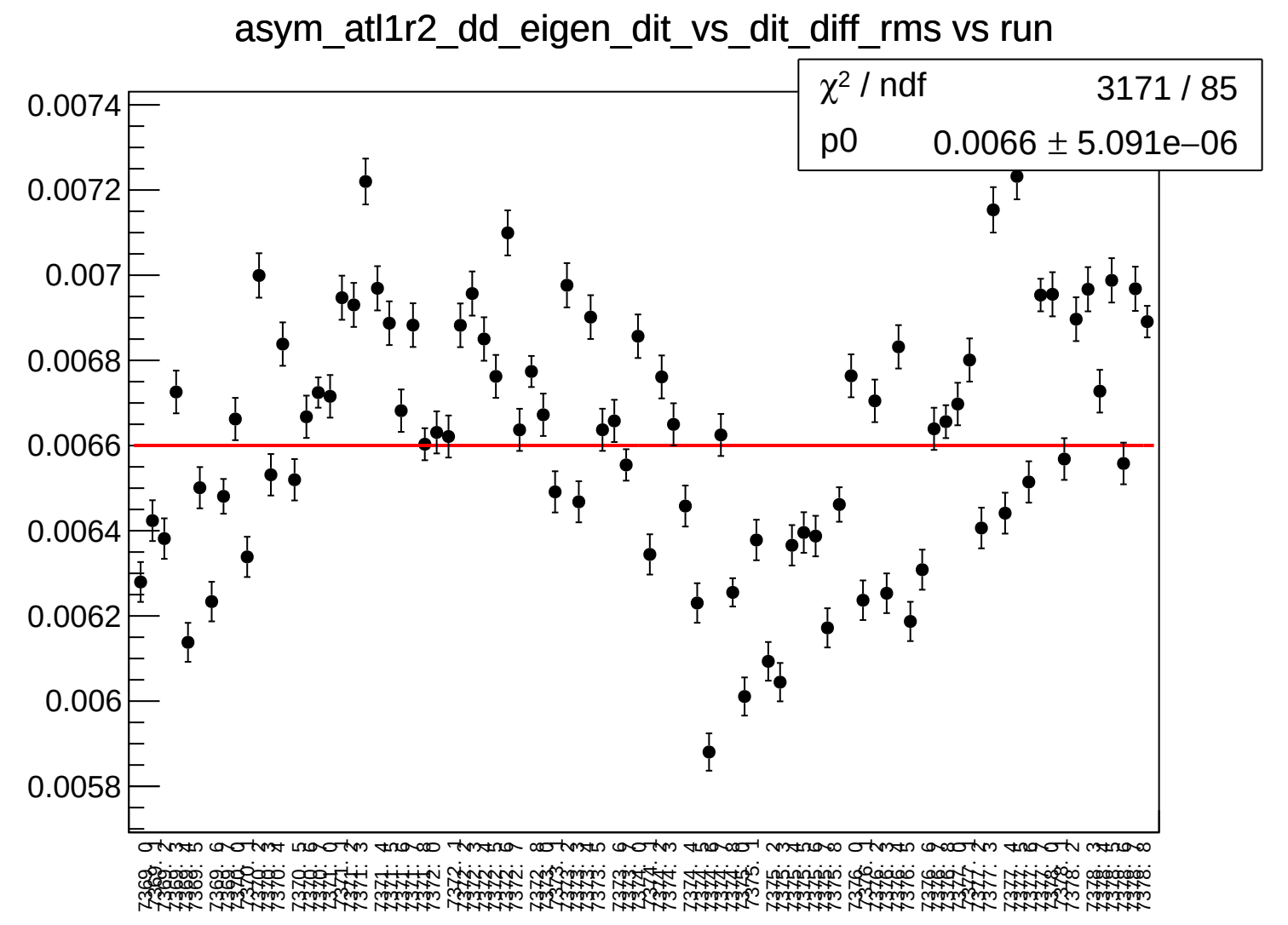

pull1D
Entries 86
Mean −0.09282
Std Dev 1.142

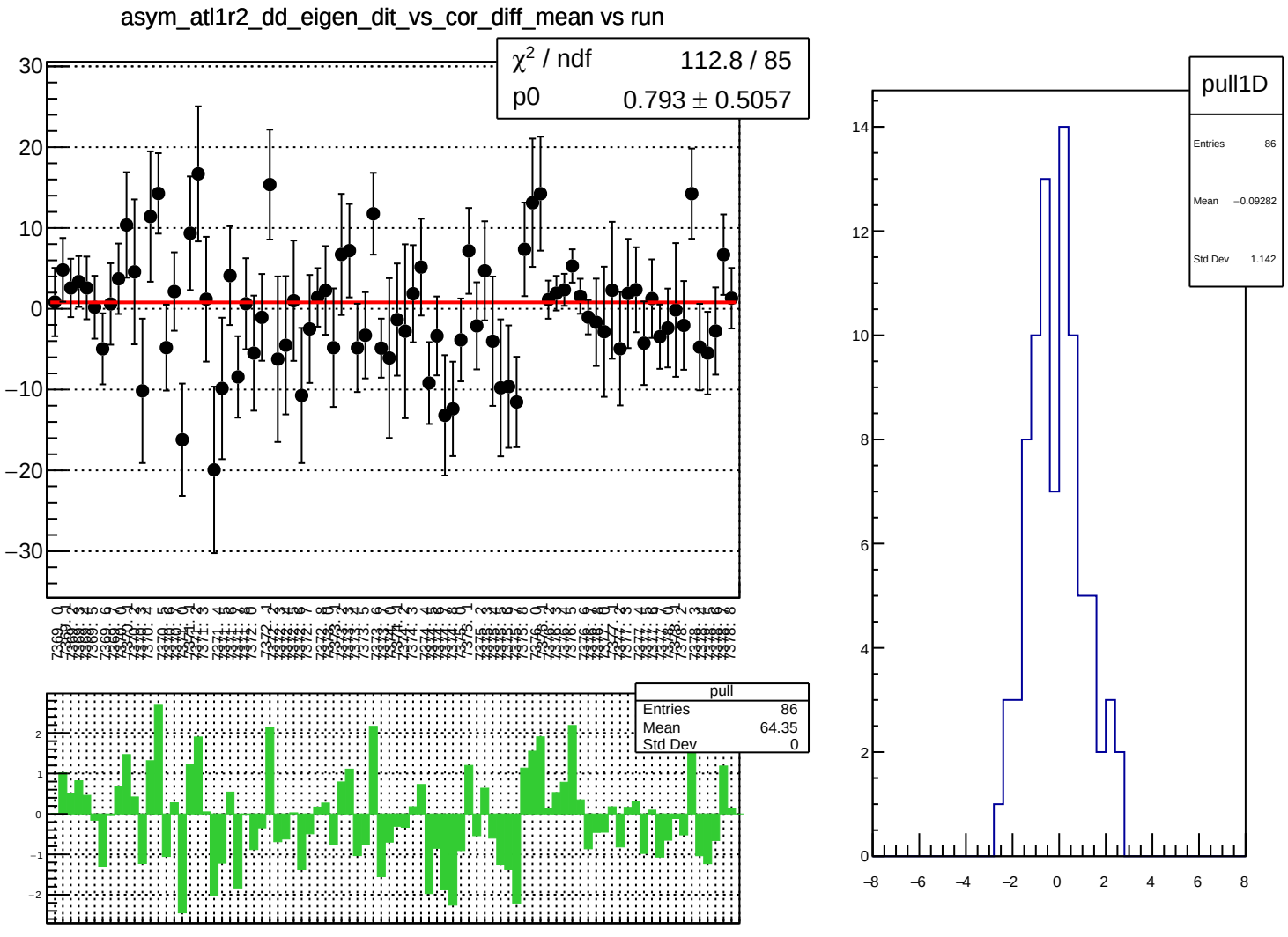

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.927e+05 / 85
p0 421.8 ± 0.3576
1000
800
600
400
200

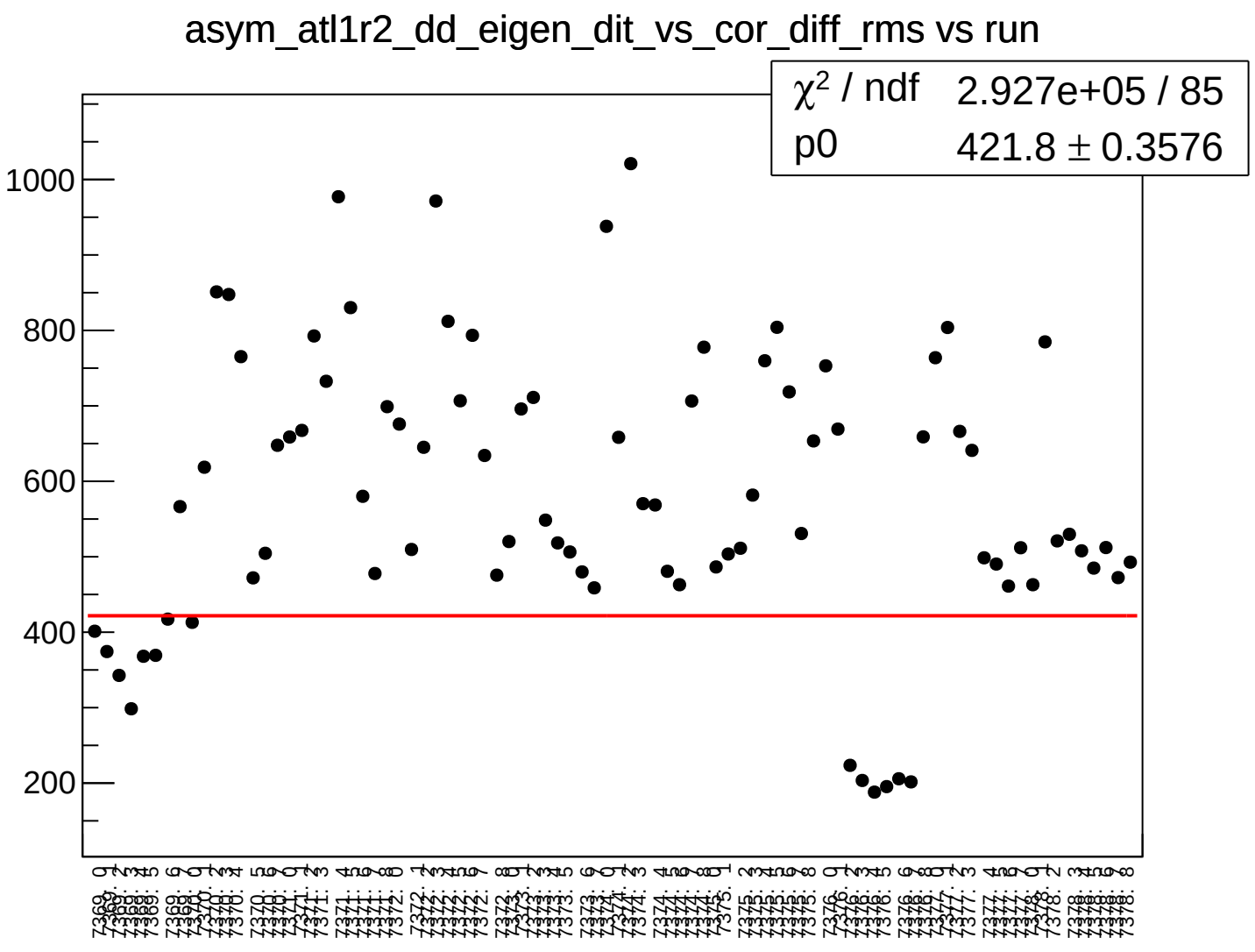

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.8 / 85
p0 0.793 ± 0.5057
pull
Entries 86
Mean 64.35
Std Dev 0
pull1D
Entries 86
Mean −0.09282
Std Dev 1.142

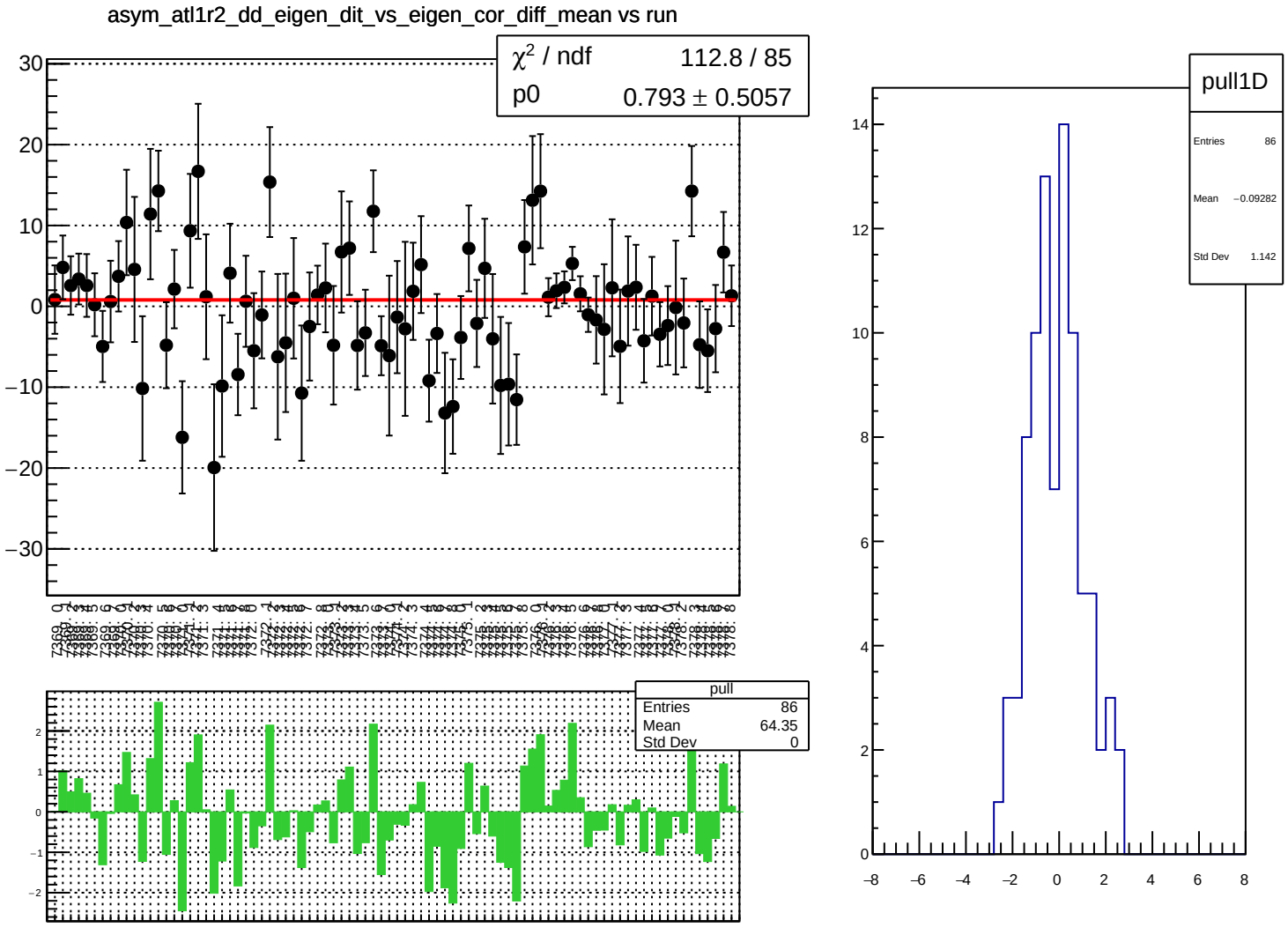

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.927e+05 / 85
p0 421.8 ± 0.3576
1000
800
600
400
200

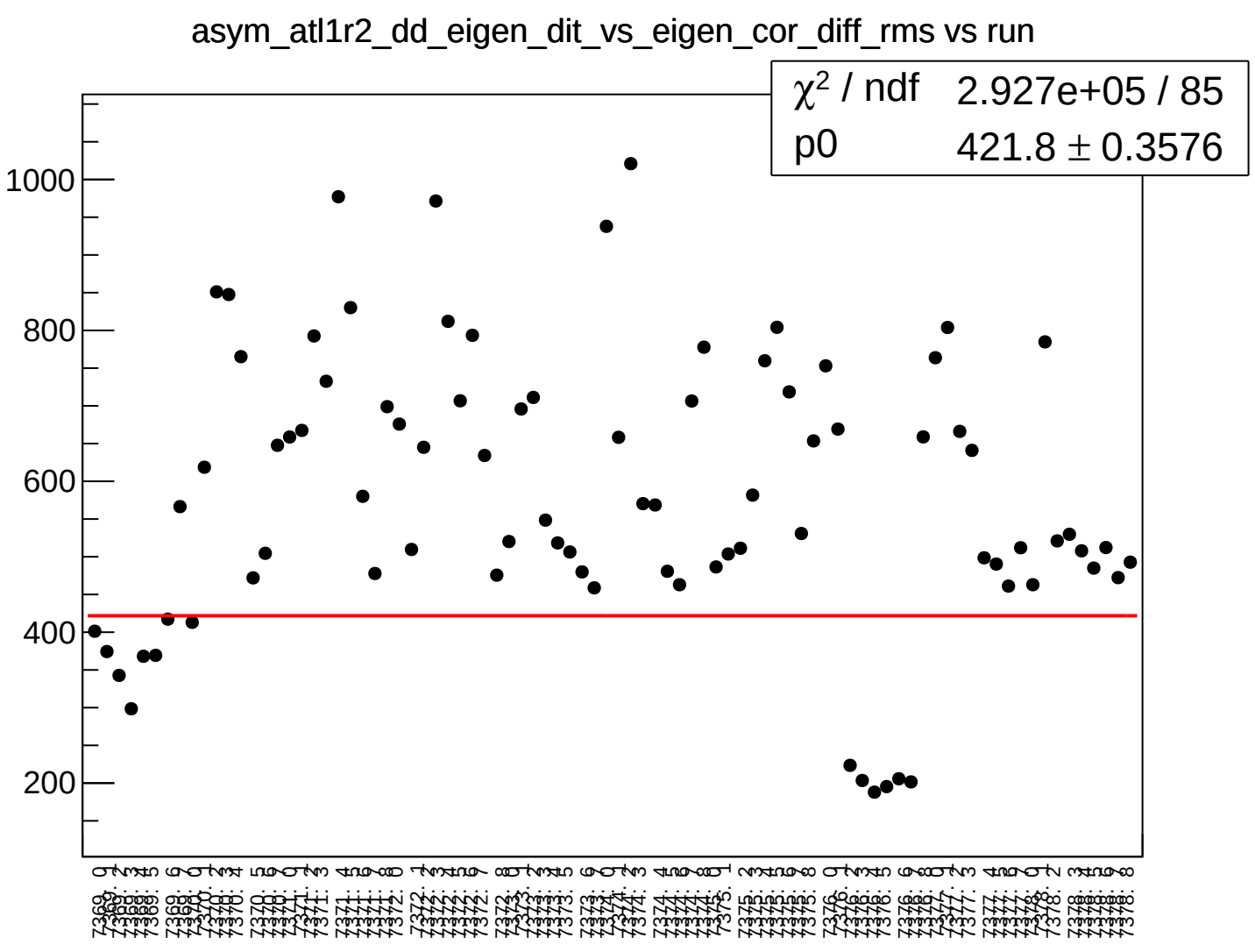

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.99 / 85
p0 6.191e–06 ± 7.2e–06
pull
Entries 86
Mean 2061
Std Dev 0
pull1D
Entries 86
Mean 0.001027
Std Dev 1.04

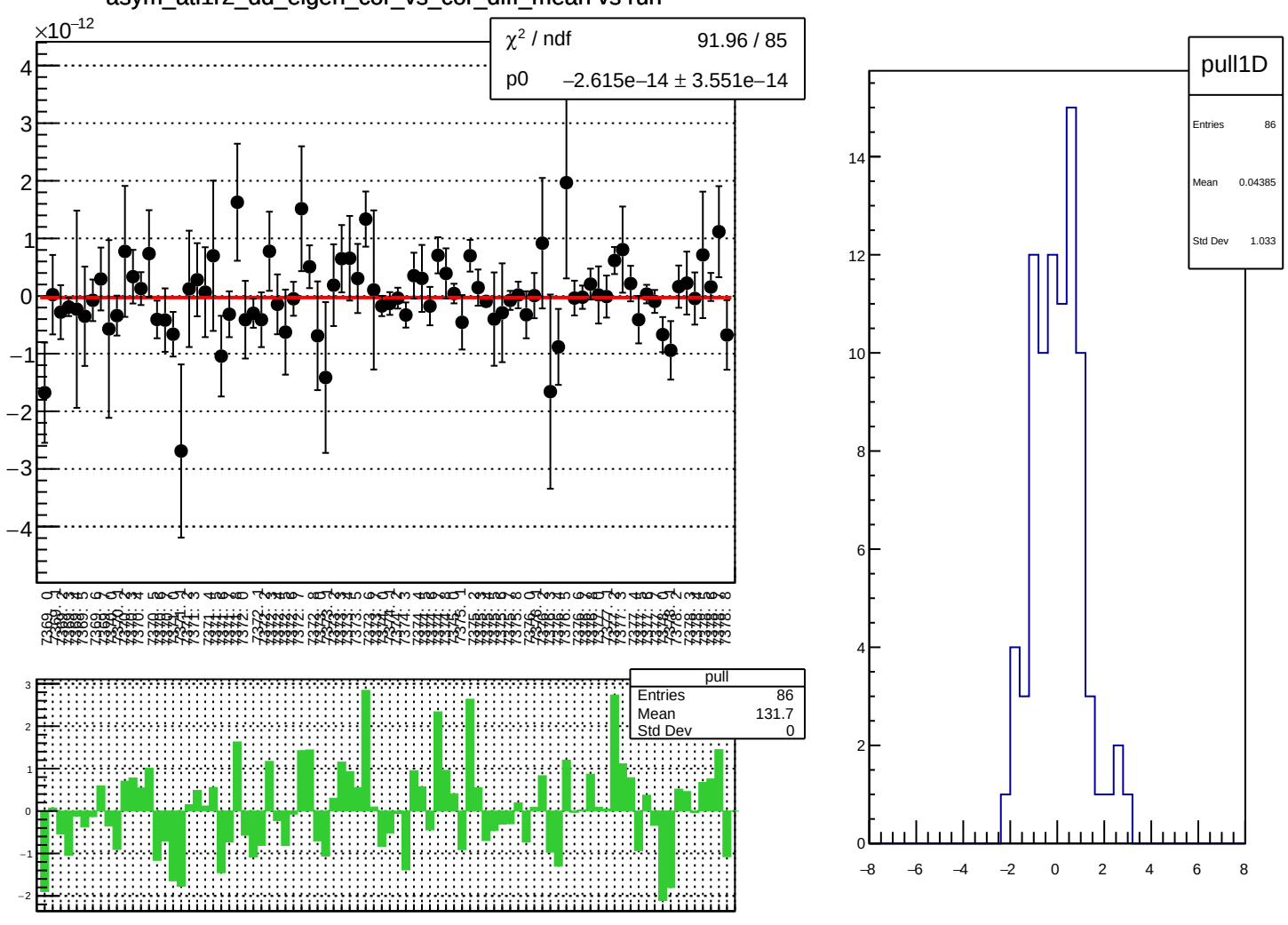

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3171 / 85
p0 0.0066 ± 5.091e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058

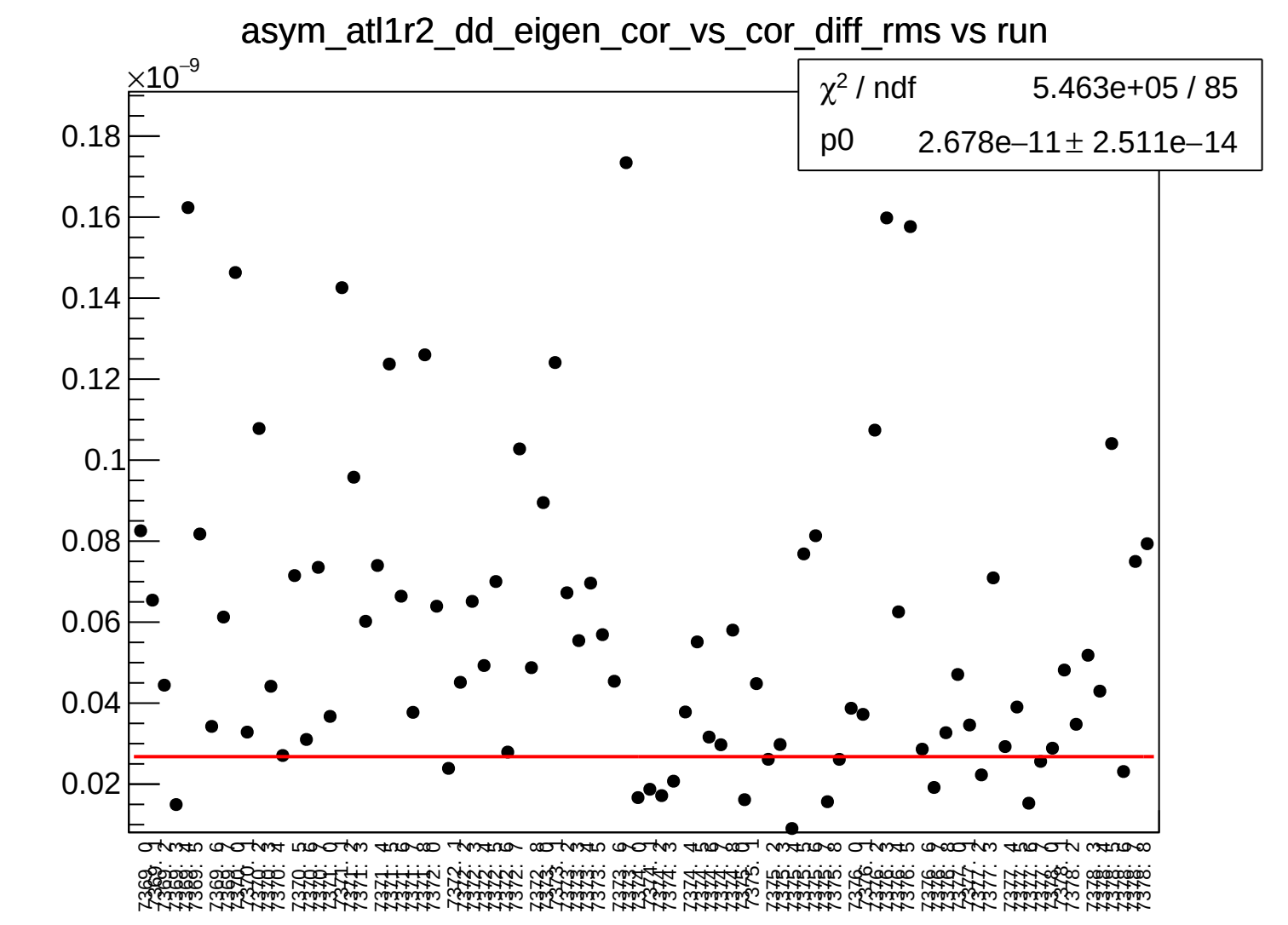

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.8 / 85
p0 0.793 ± 0.5057
pull
Entries 86
Mean 64.35
Std Dev 0
pull1D
Entries 86
Mean −0.09282
Std Dev 1.142

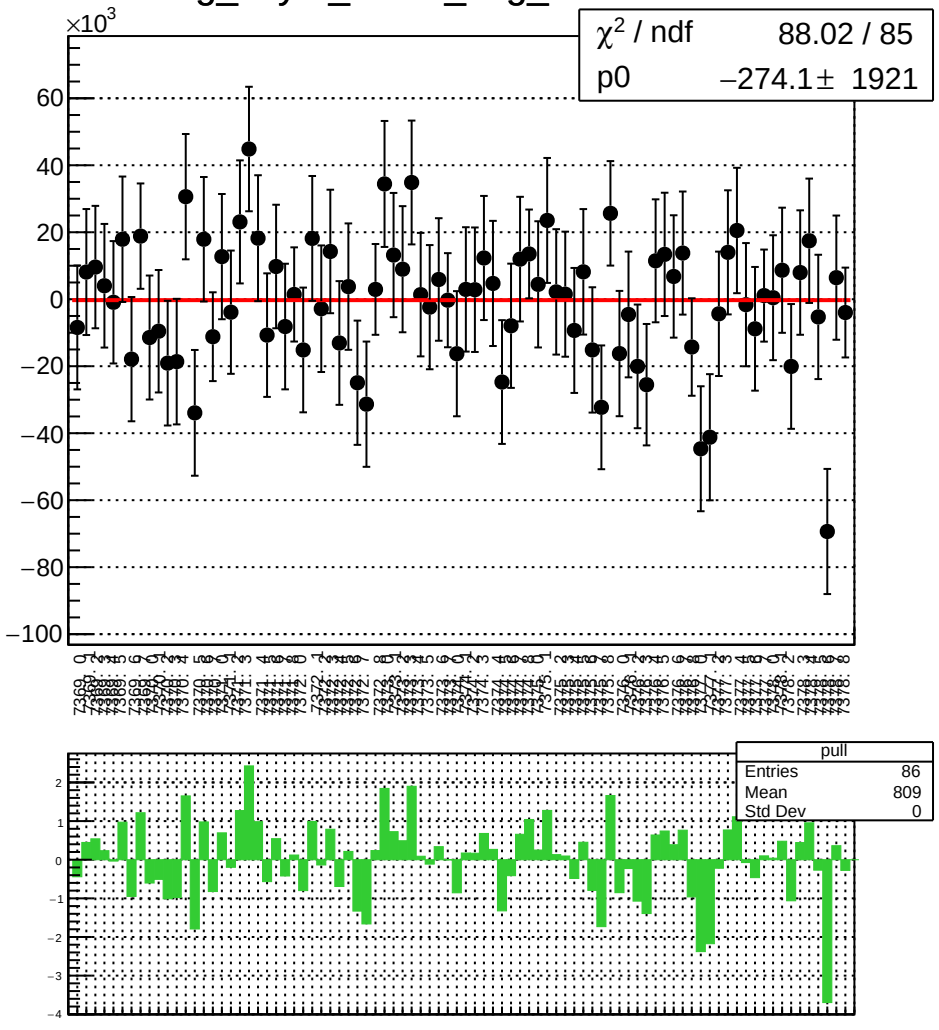

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.927e+05 / 85
p0 421.8 ± 0.3576
1000
800
600
400
200

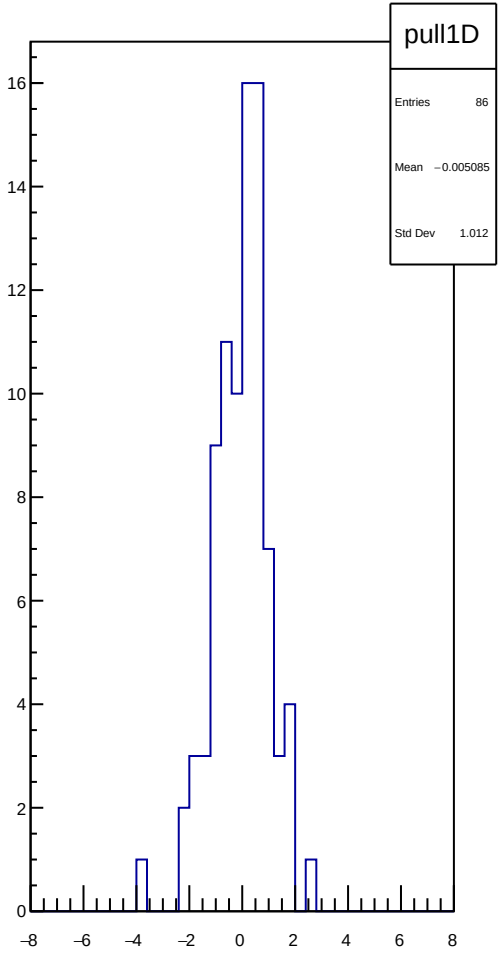

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.8 / 85
p0 0.793 ± 0.5057
pull
Entries 86
Mean 64.35
Std Dev 0
pull1D
Entries 86
Mean −0.09282
Std Dev 1.142

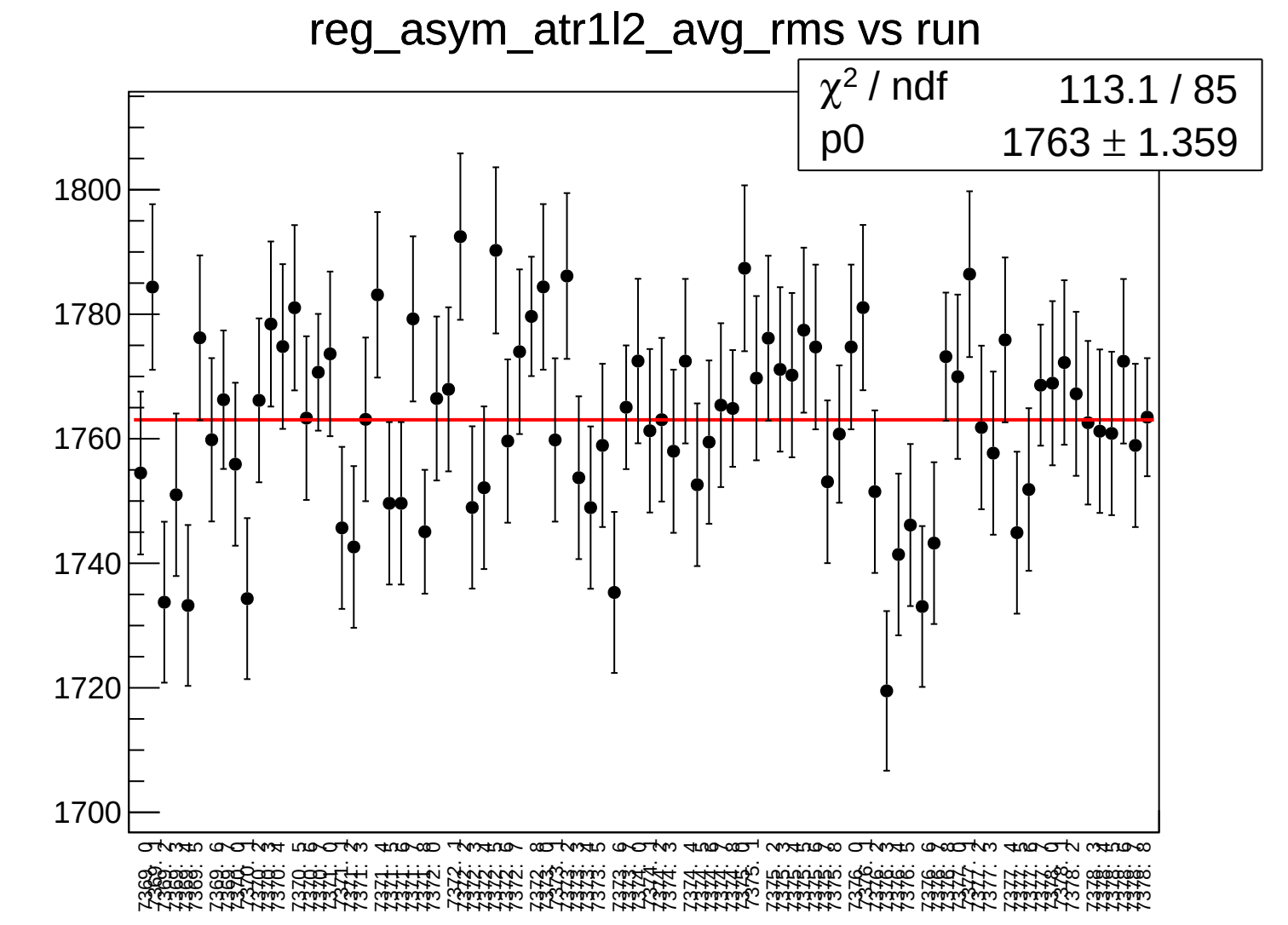

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.927e+05 / 85
p0 421.8 ± 0.3576
1000
800
600
400
200

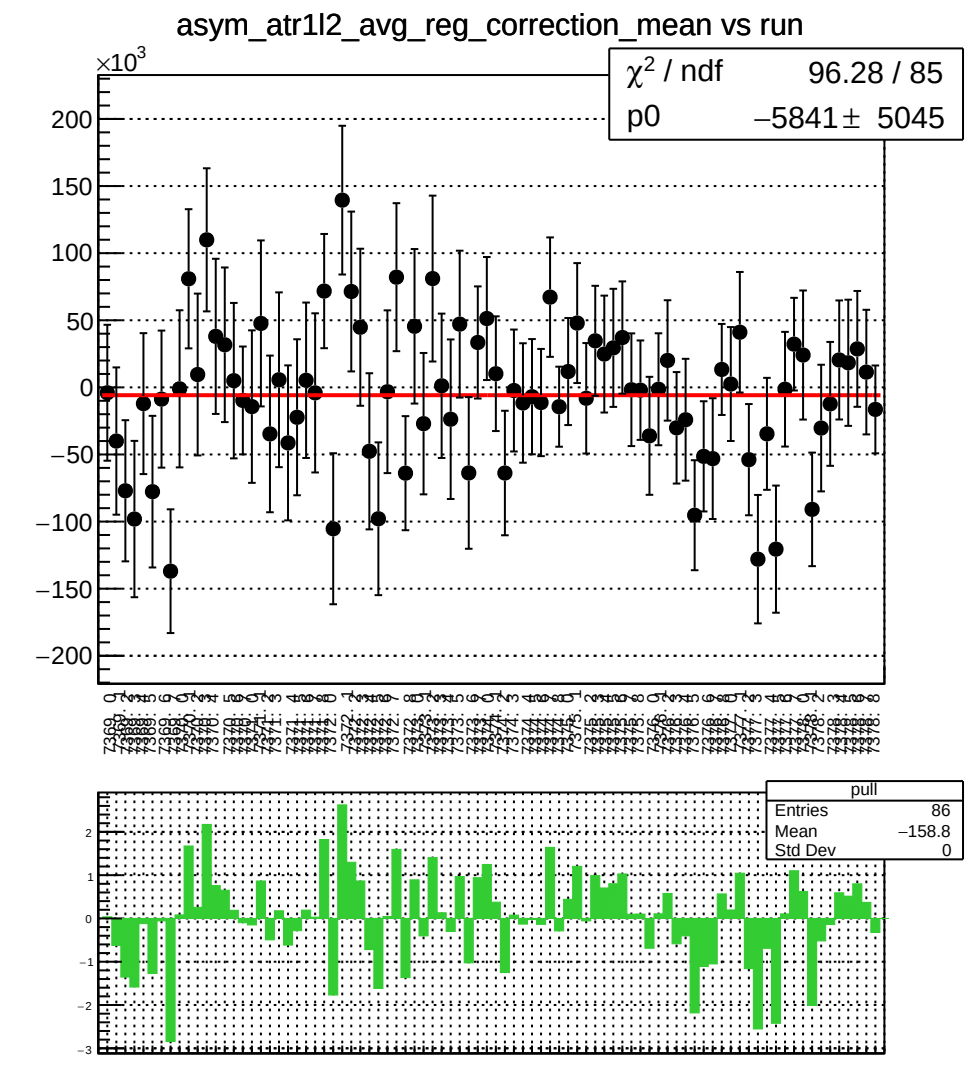

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.96 / 85
p0 −2.615e−14 ± 3.551e−14
pull
Entries 86
Mean 131.7
Std Dev 0
pull1D
Entries 86
Mean 0.04385
Std Dev 1.033

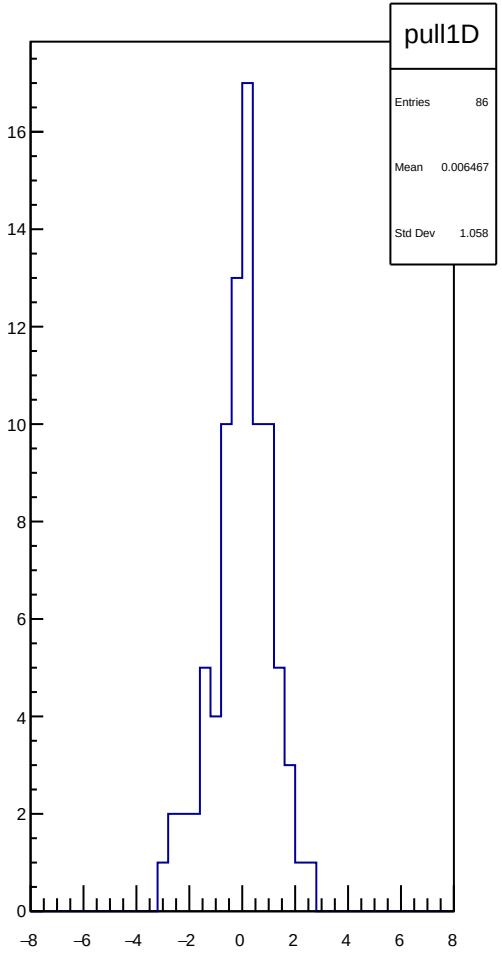

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.463e+05 / 85
p0 2.678e−11 ± 2.511e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

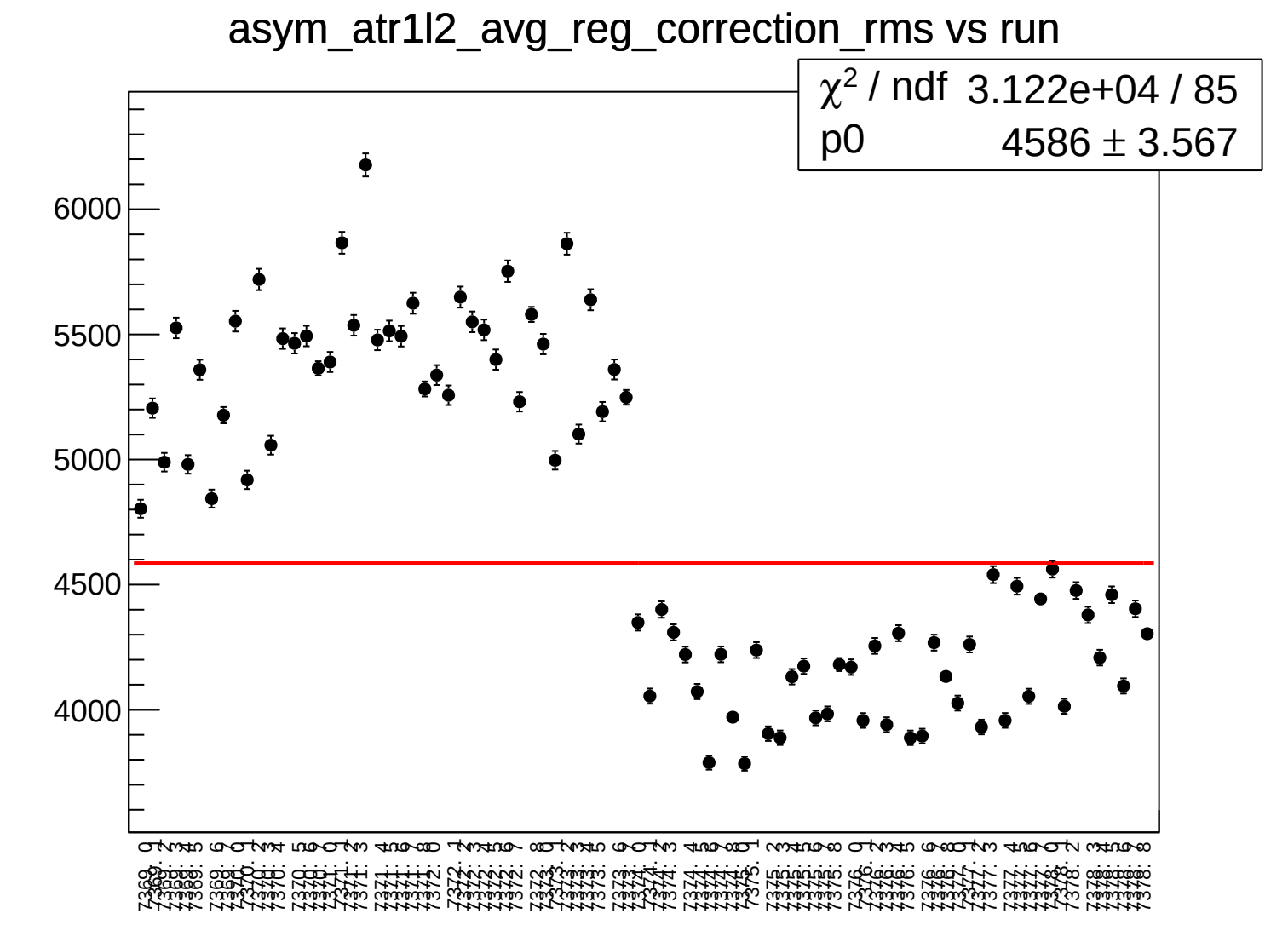

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 88.02 / 85
p0 −274.1± 1921
pull
Entries 86
Mean 809
Std Dev 0

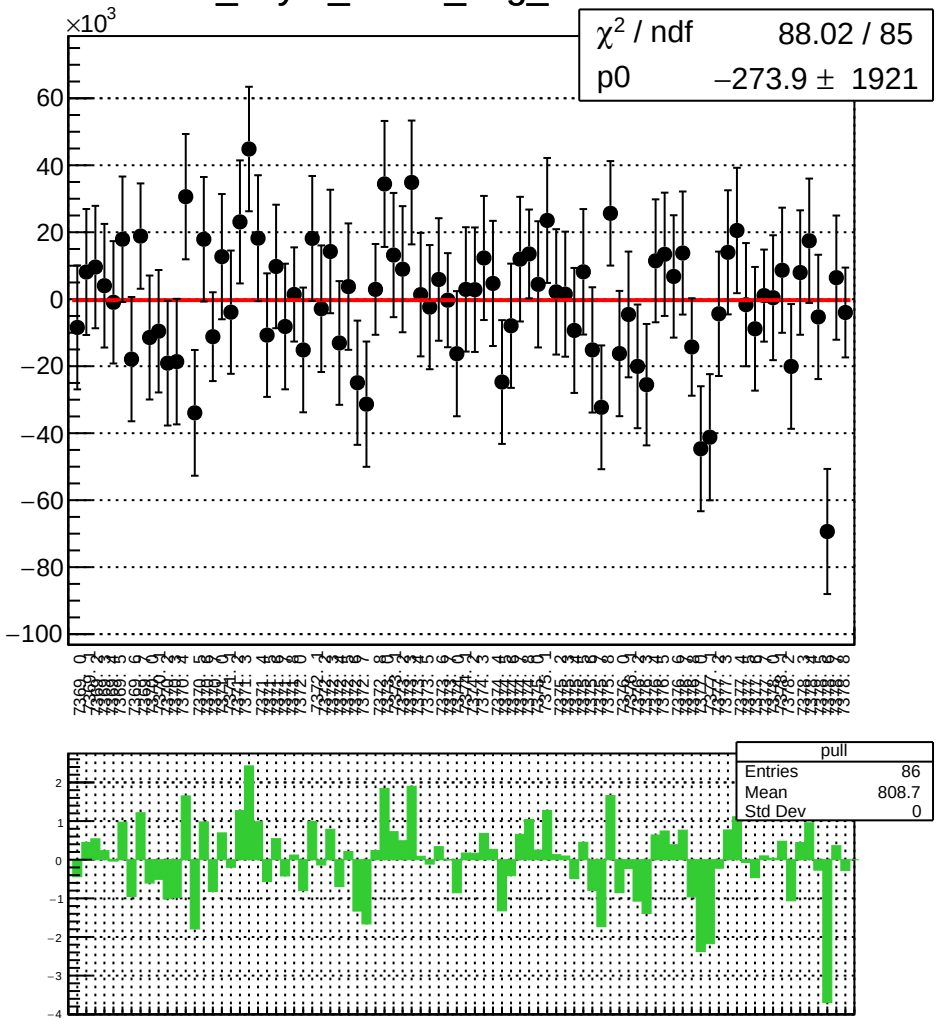

pull1D
Entries 86
Mean −0.005085
Std Dev 1.012

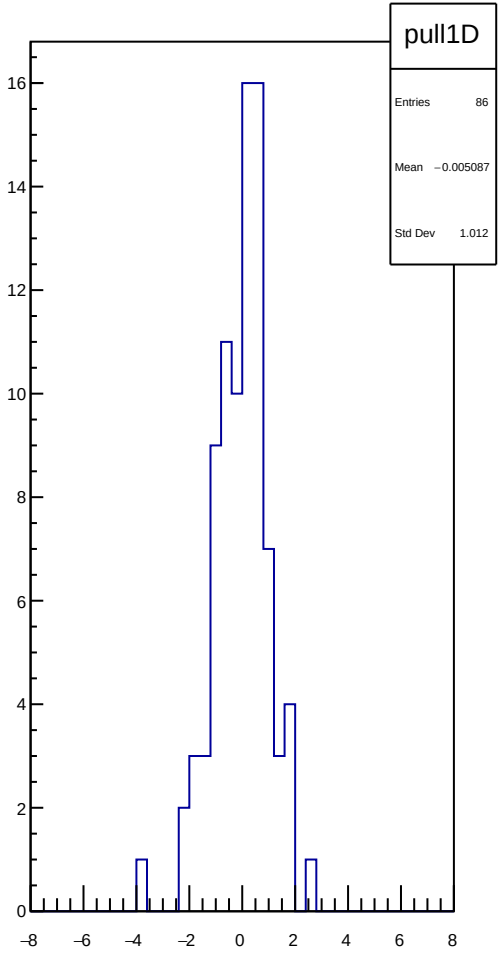

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 113.1 / 85
p0 1763 ± 1.359
1800
1780
1760
1740
1720
1700

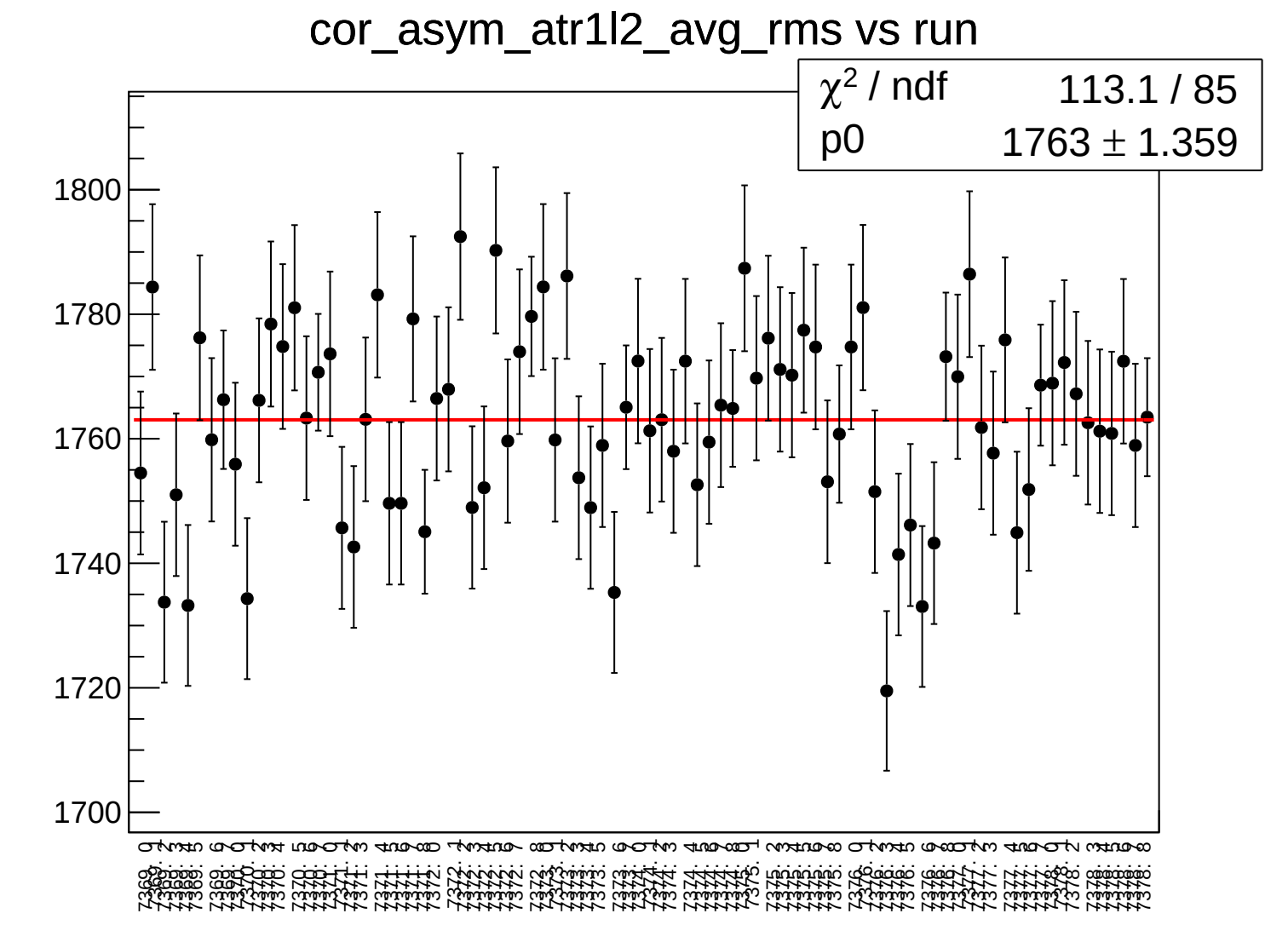

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.28 / 85
p0 −5841 ± 5045
pull
Entries 86
Mean −158.8
Std Dev 0

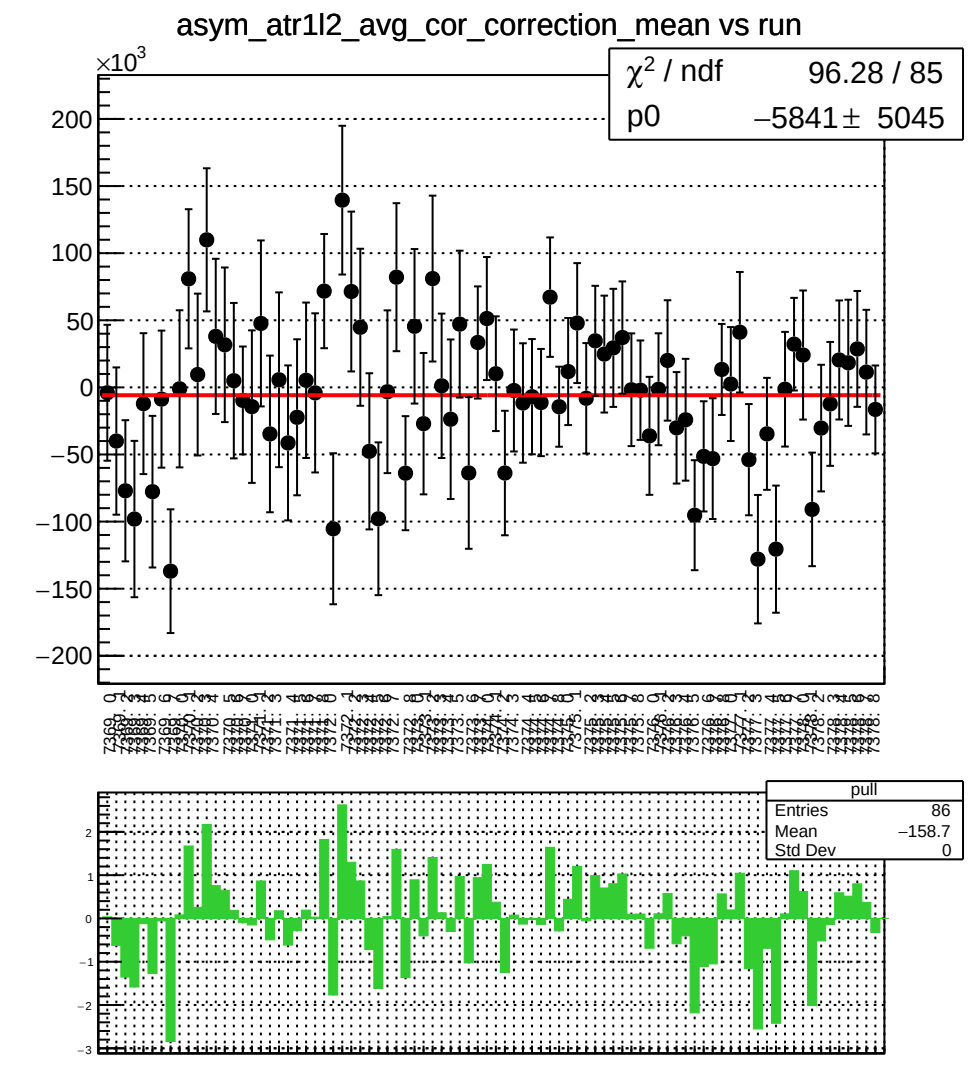

pull1D
Entries 86
Mean 0.006467
Std Dev 1.058

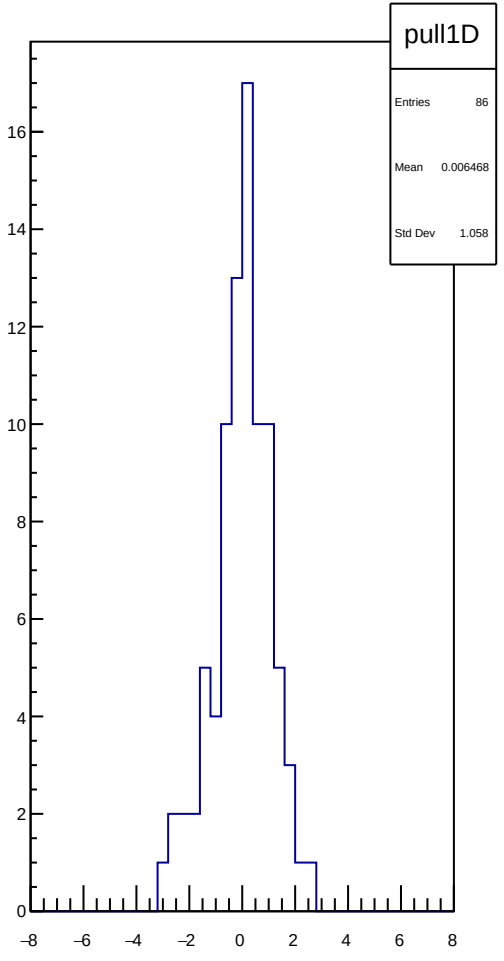

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 3.122e+04 / 85
p0 4586 ± 3.567
6000
5500
5000
4500
4000

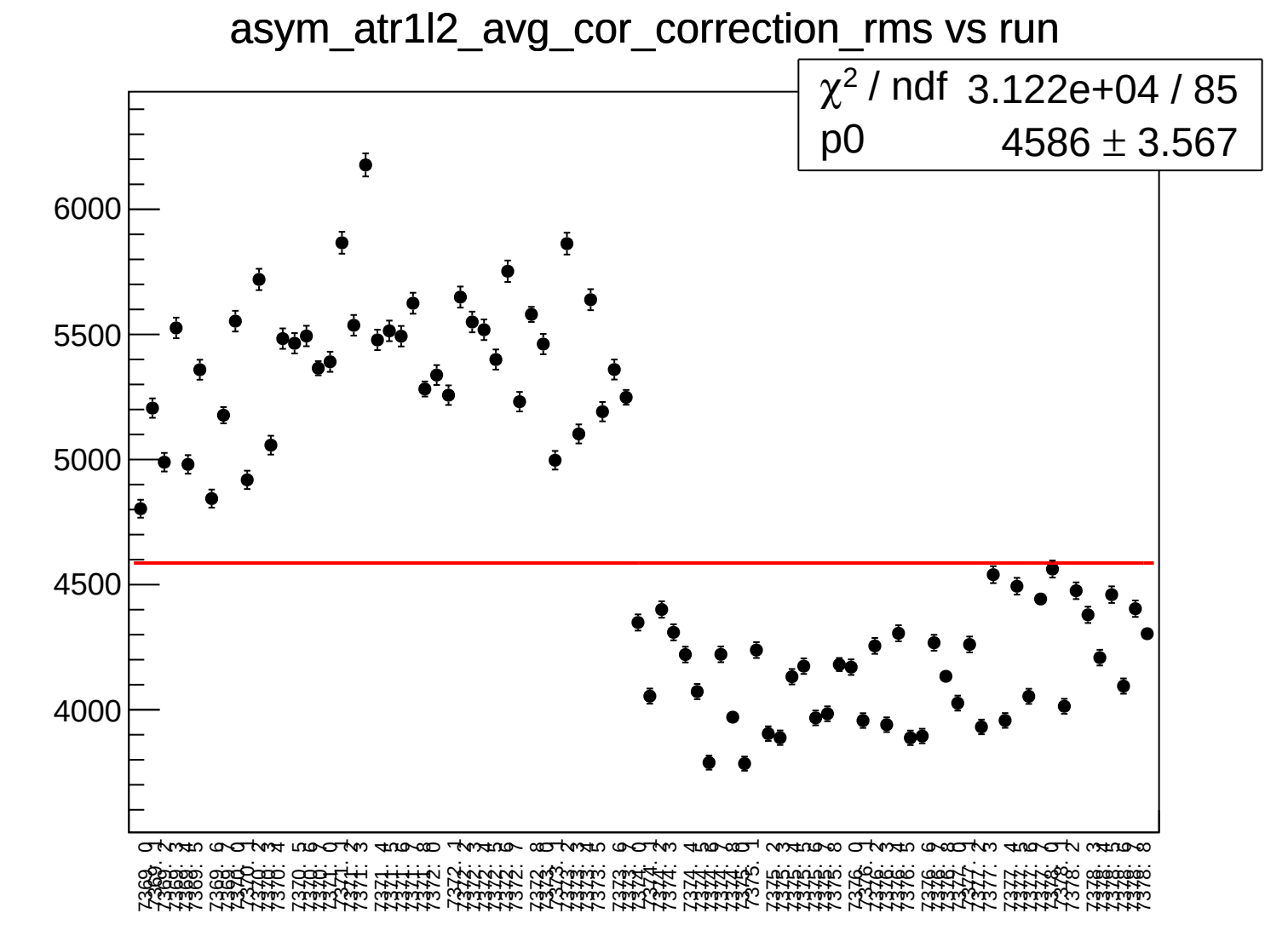

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 88.02 / 85
p0 −273.9 ± 1921
pull
Entries 86
Mean 808.7
Std Dev 0

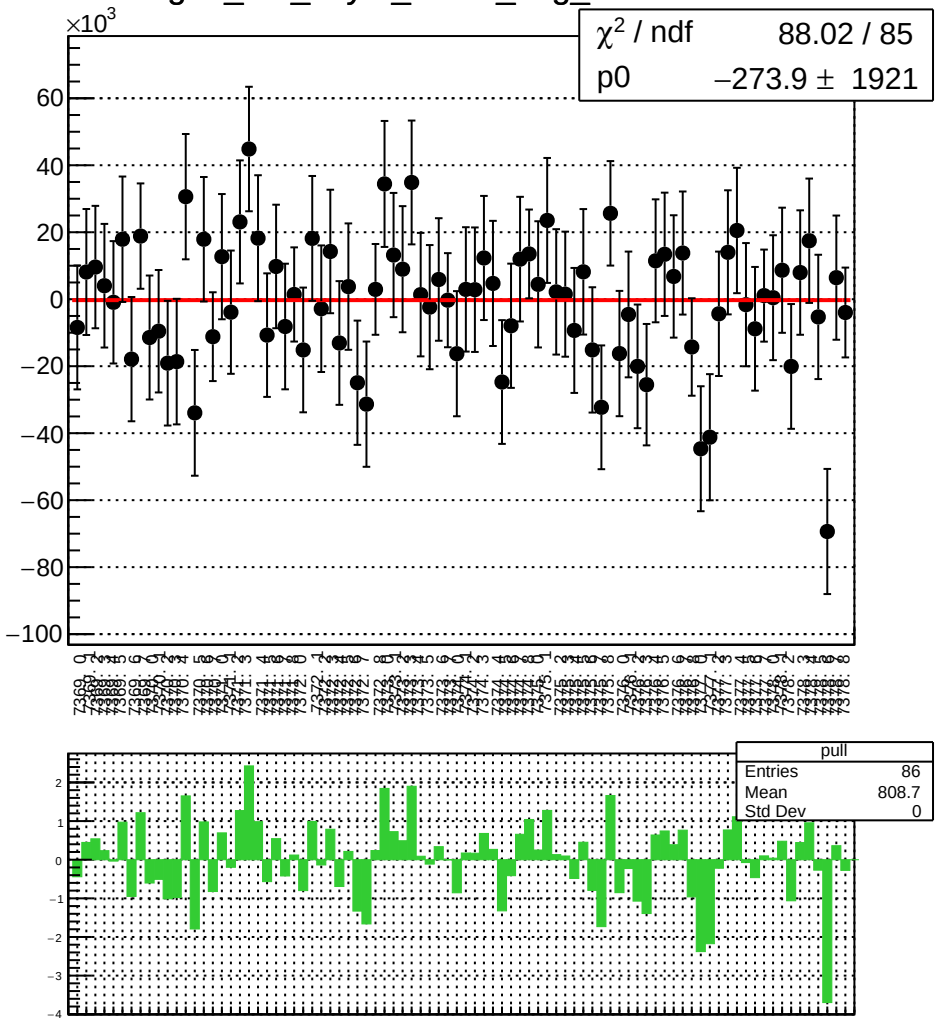

pull1D
Entries 86
Mean −0.005087
Std Dev 1.012

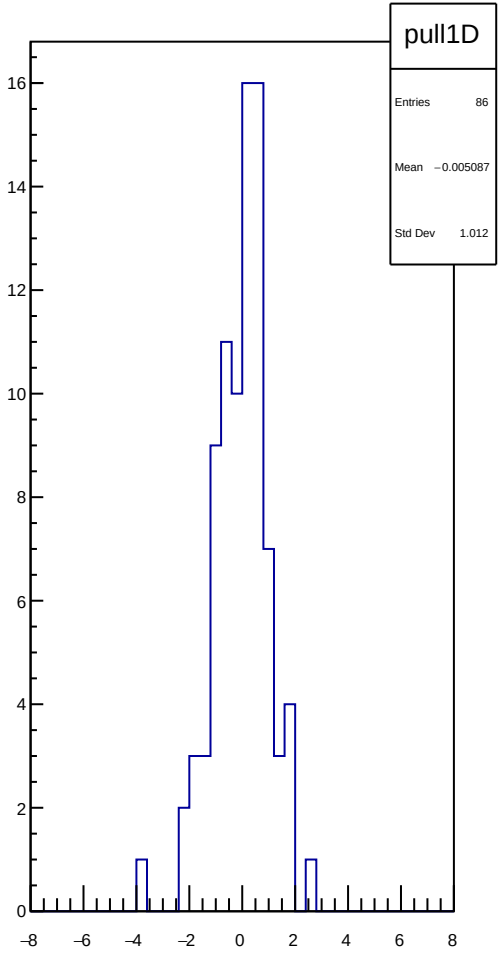

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 113.1 / 85
p0 1763 ± 1.359
1800
1780
1760
1740
1720
1700

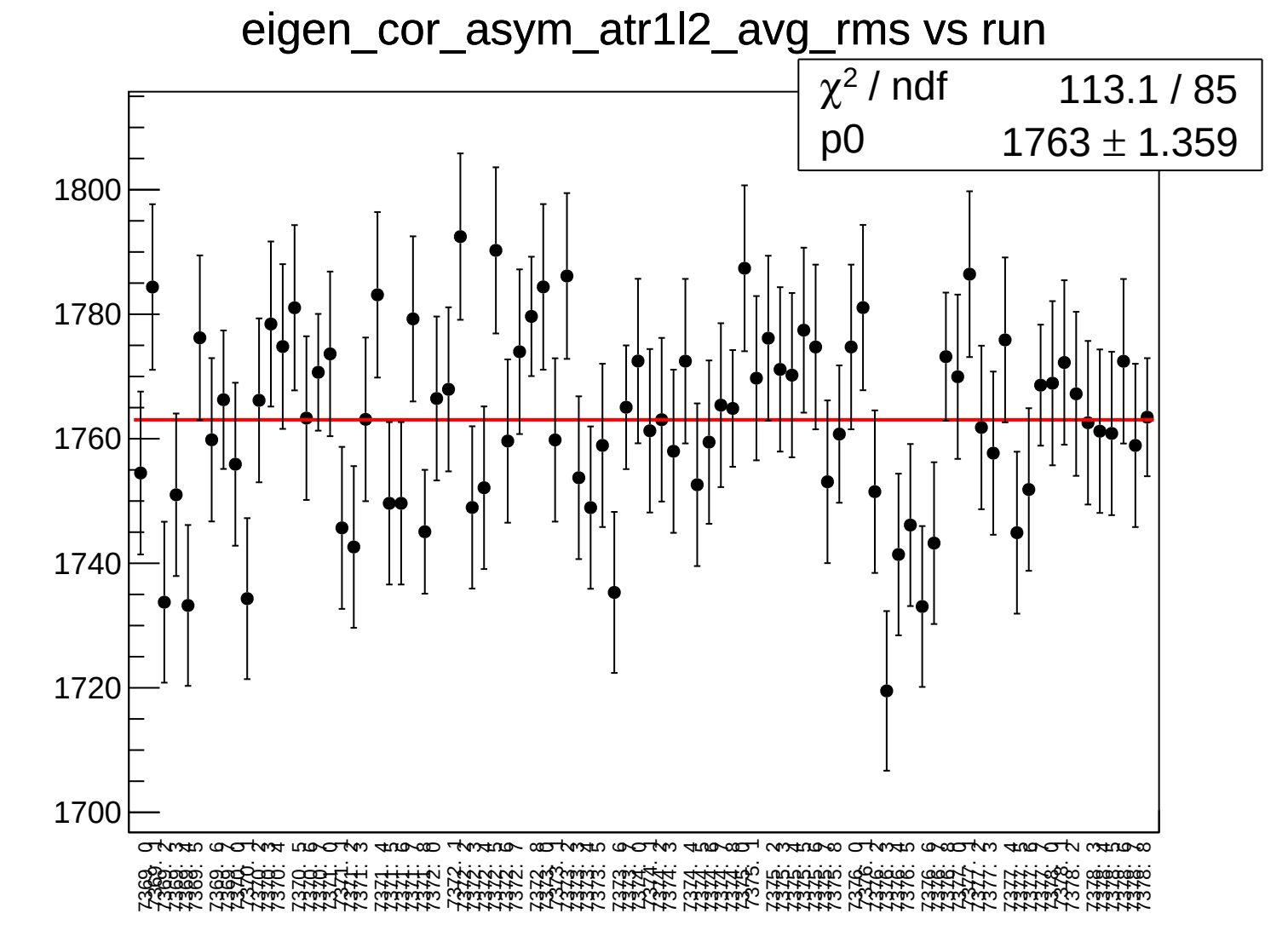

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.28 / 85
p0 −5841 ± 5045
pull
Entries 86
Mean −158.7
Std Dev 0

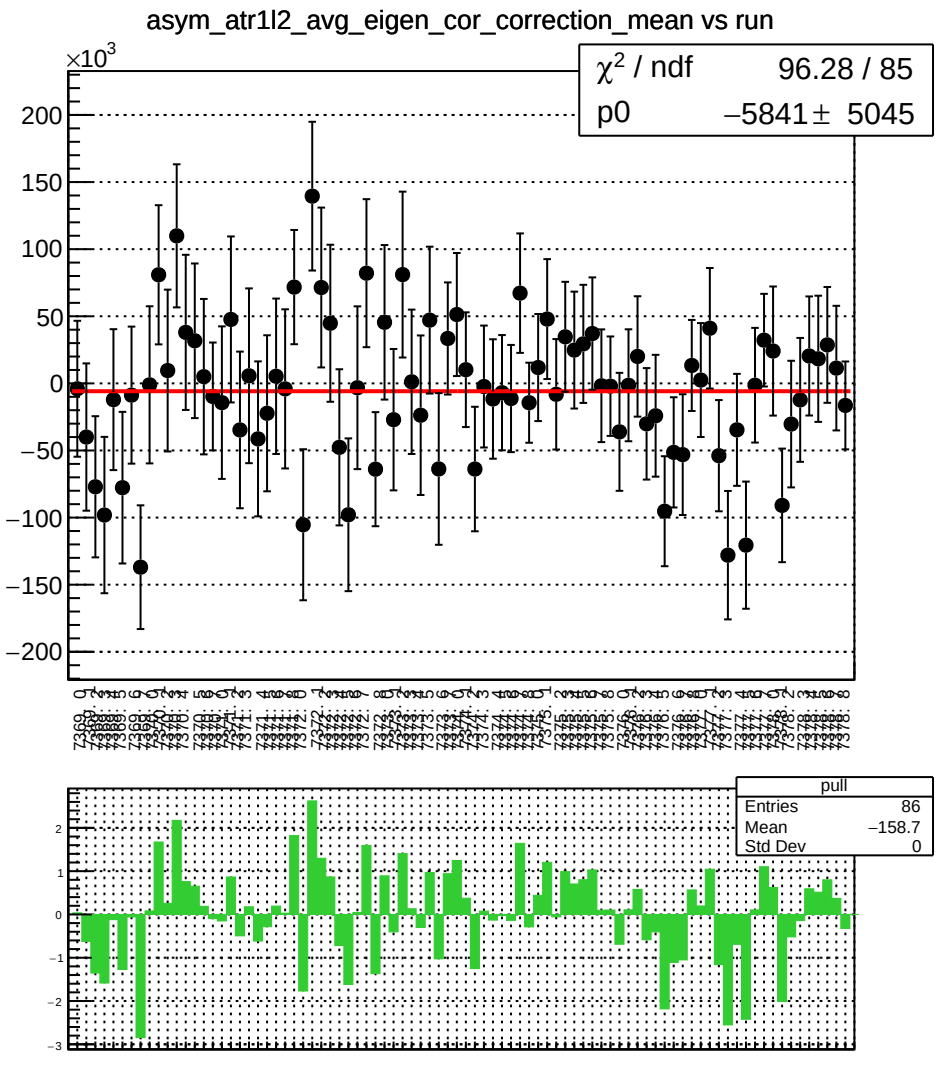

pull1D
Entries 86
Mean 0.006468
Std Dev 1.058

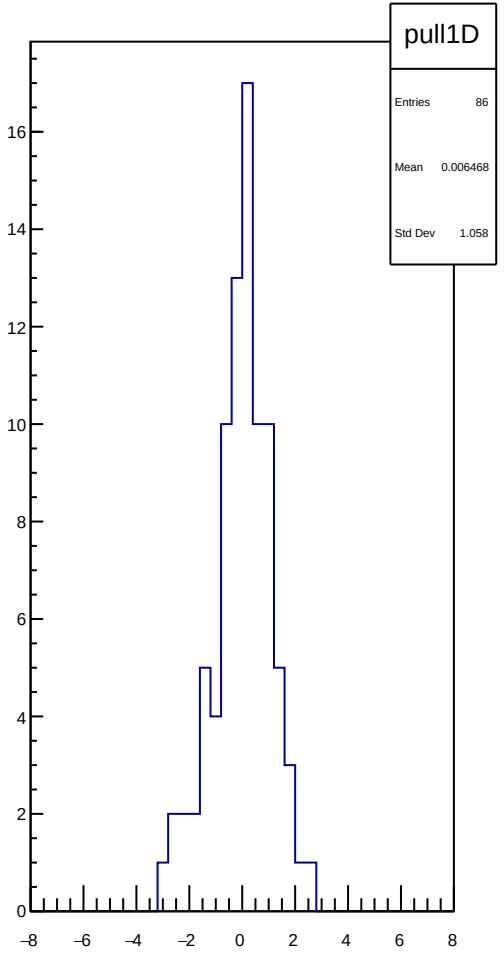

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 3.122e+04 / 85
p0 4586 ± 3.567
6000
5500
5000
4500
4000

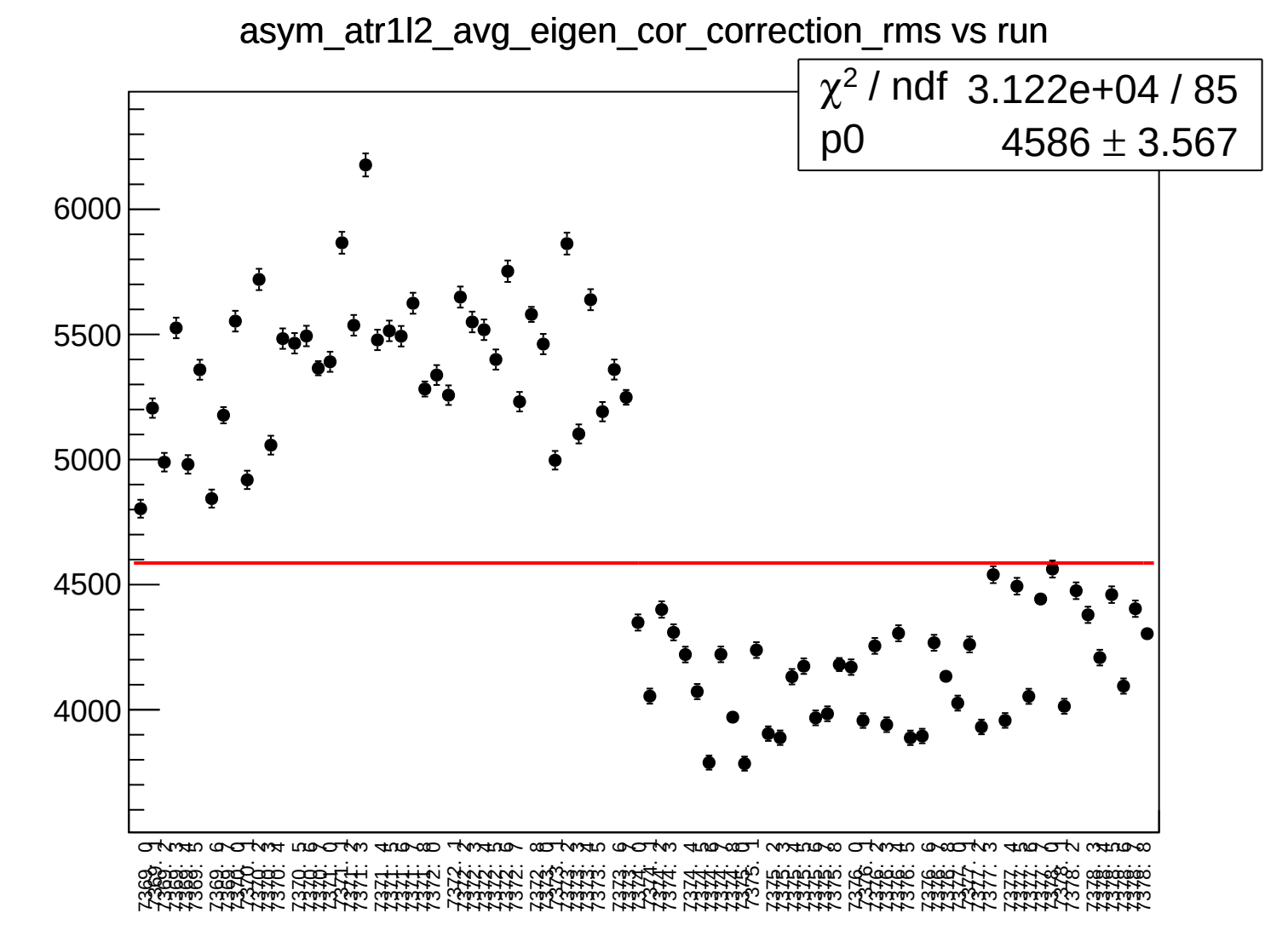

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 88.02 / 85
p0 −273.9 ± 1921
×10³
pull
Entries 86
Mean 808.7
Std Dev 0

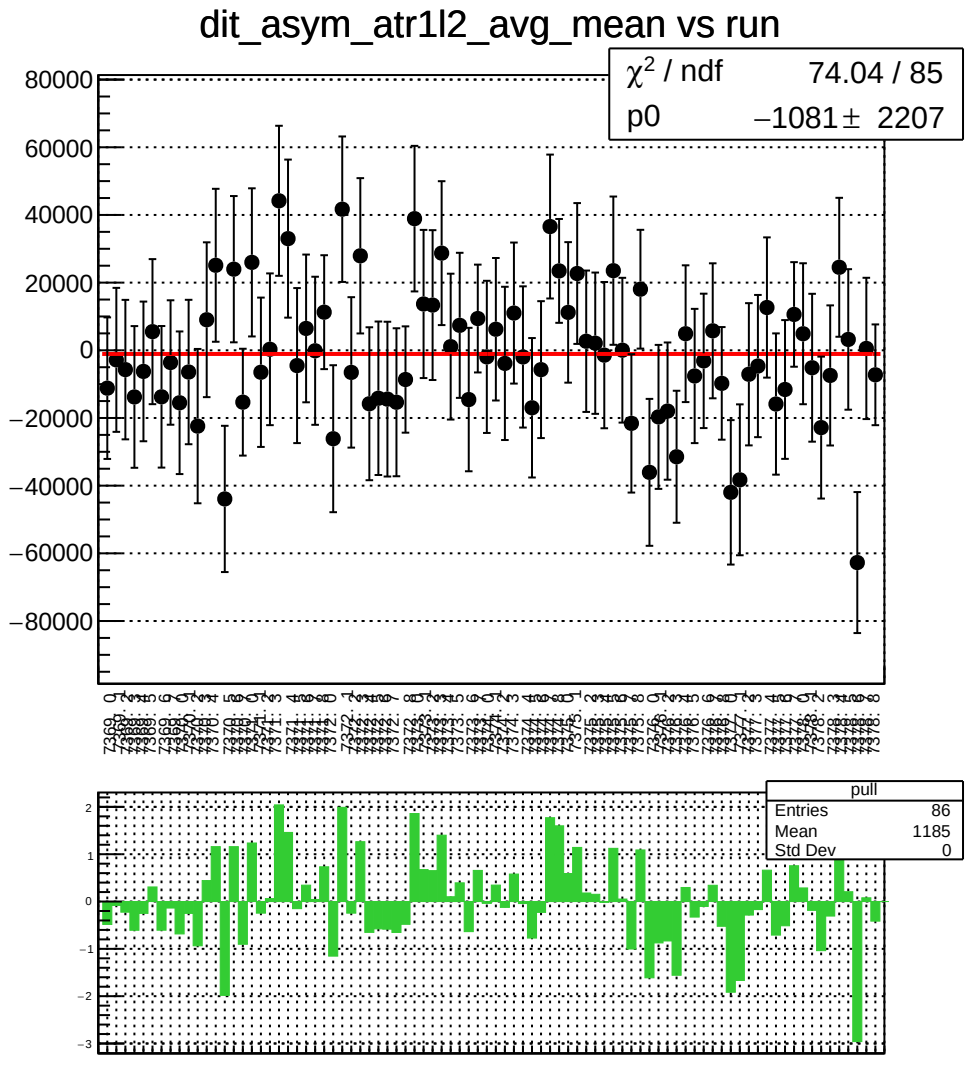

pull1D
Entries 86
Mean −0.005087
Std Dev 1.012

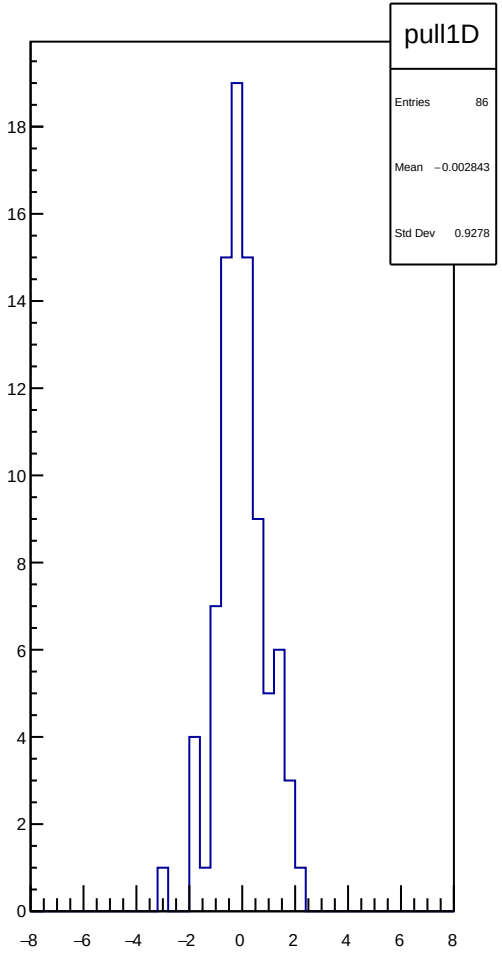

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 113.1 / 85
p0 1763 ± 1.359
1800
1780
1760
1740
1720
1700

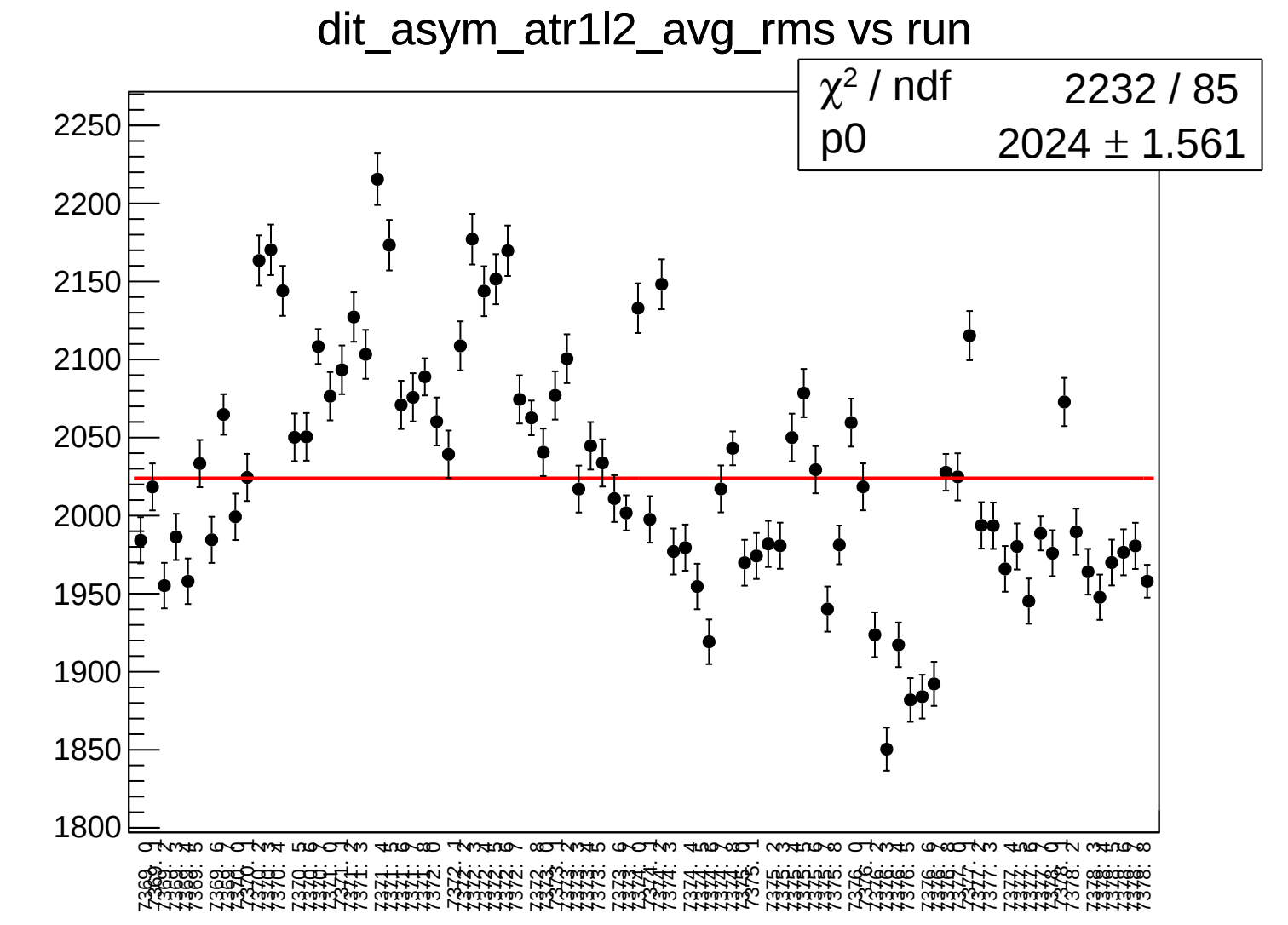

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.28 / 85
p0 −5841 ± 5045
pull
Entries 86
Mean −158.7
Std Dev 0

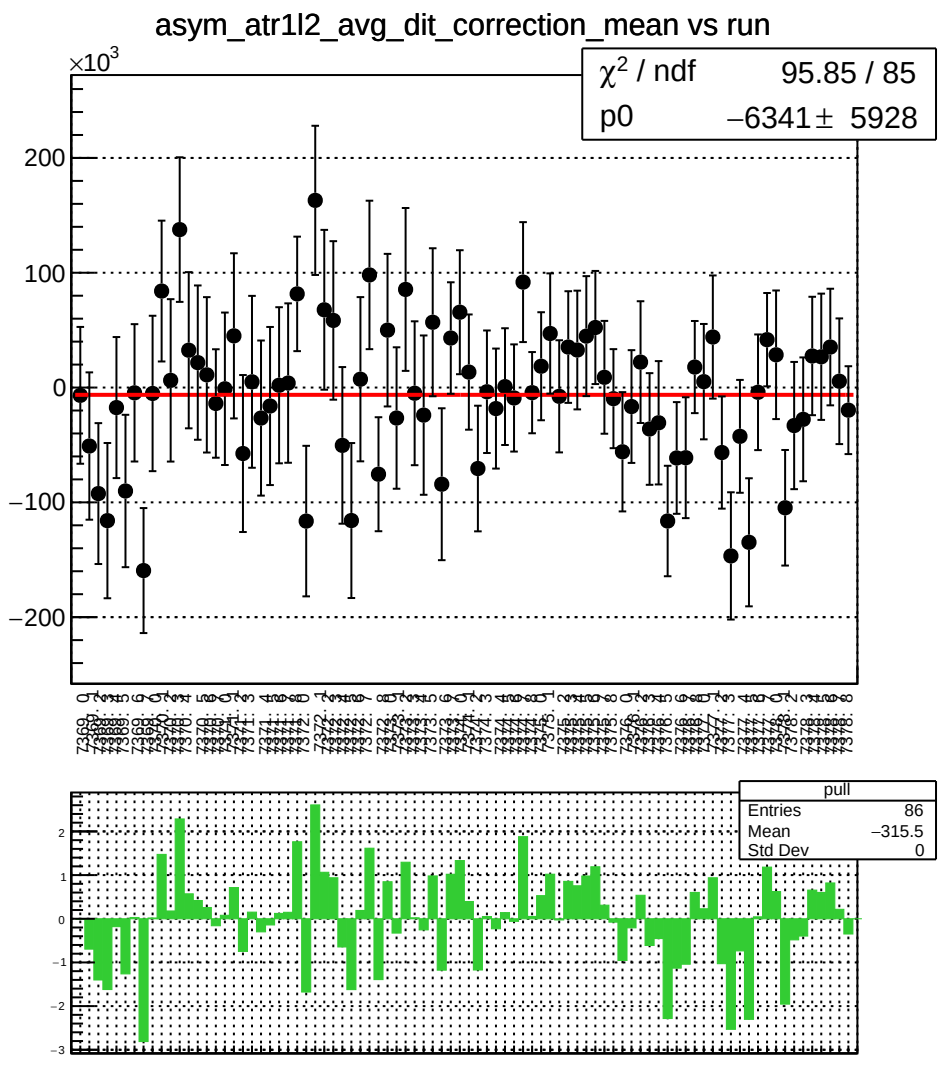

pull1D
Entries 86
Mean 0.006468
Std Dev 1.058

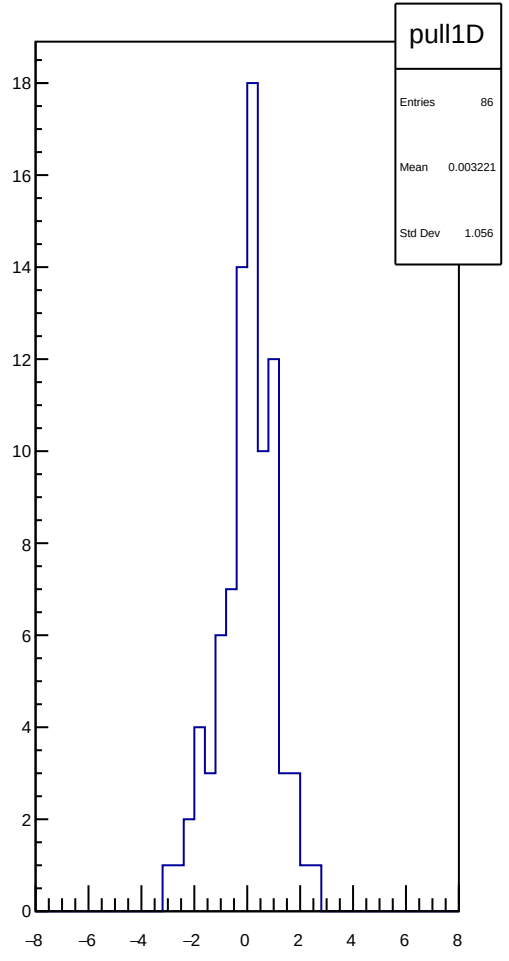

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.122e+04 / 85
p0 4586 ± 3.567
6000
5500
5000
4500
4000

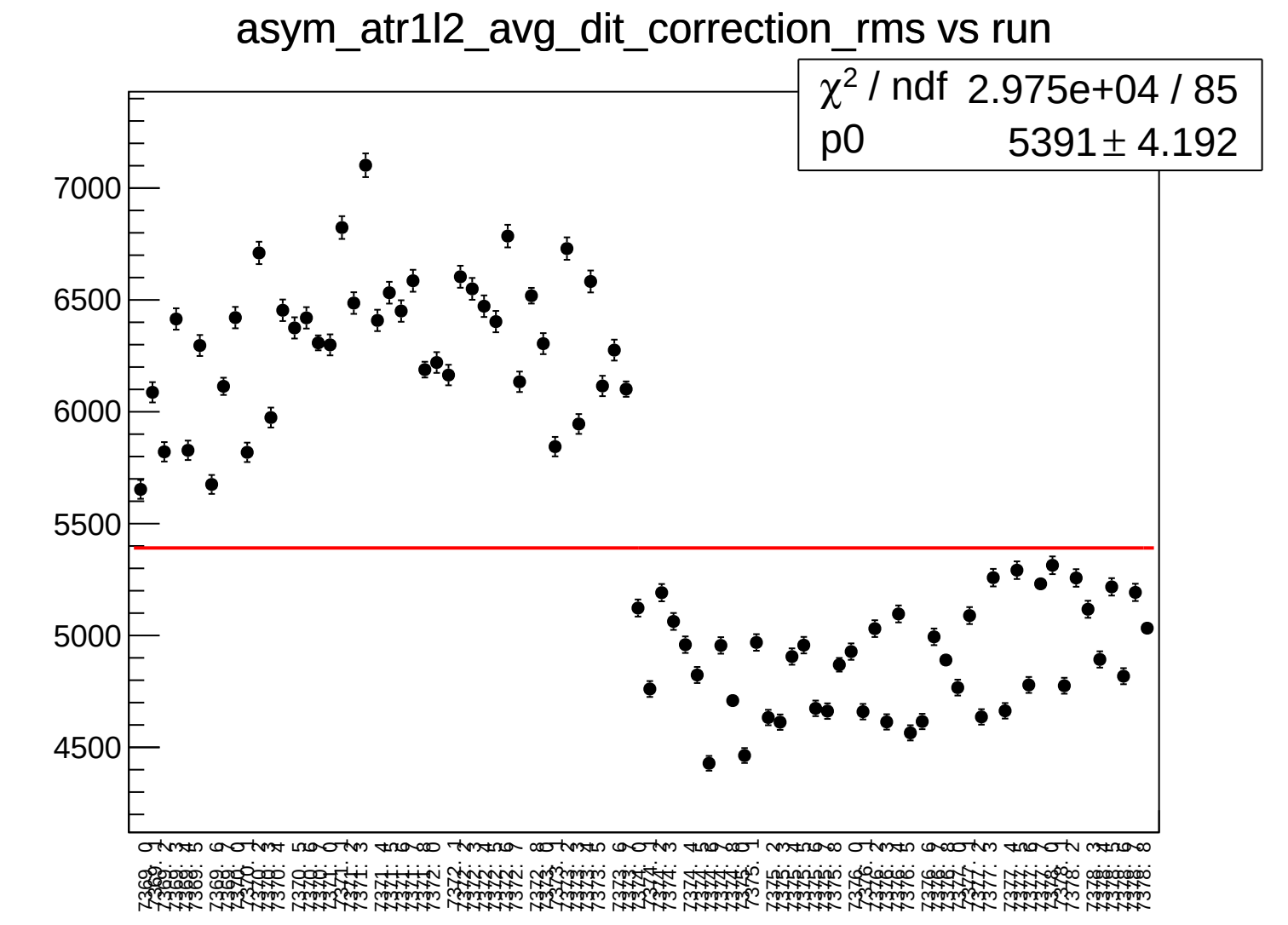

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 74.04 / 85
p0 −1081 ± 2207
pull
Entries 86
Mean 1185
Std Dev 0

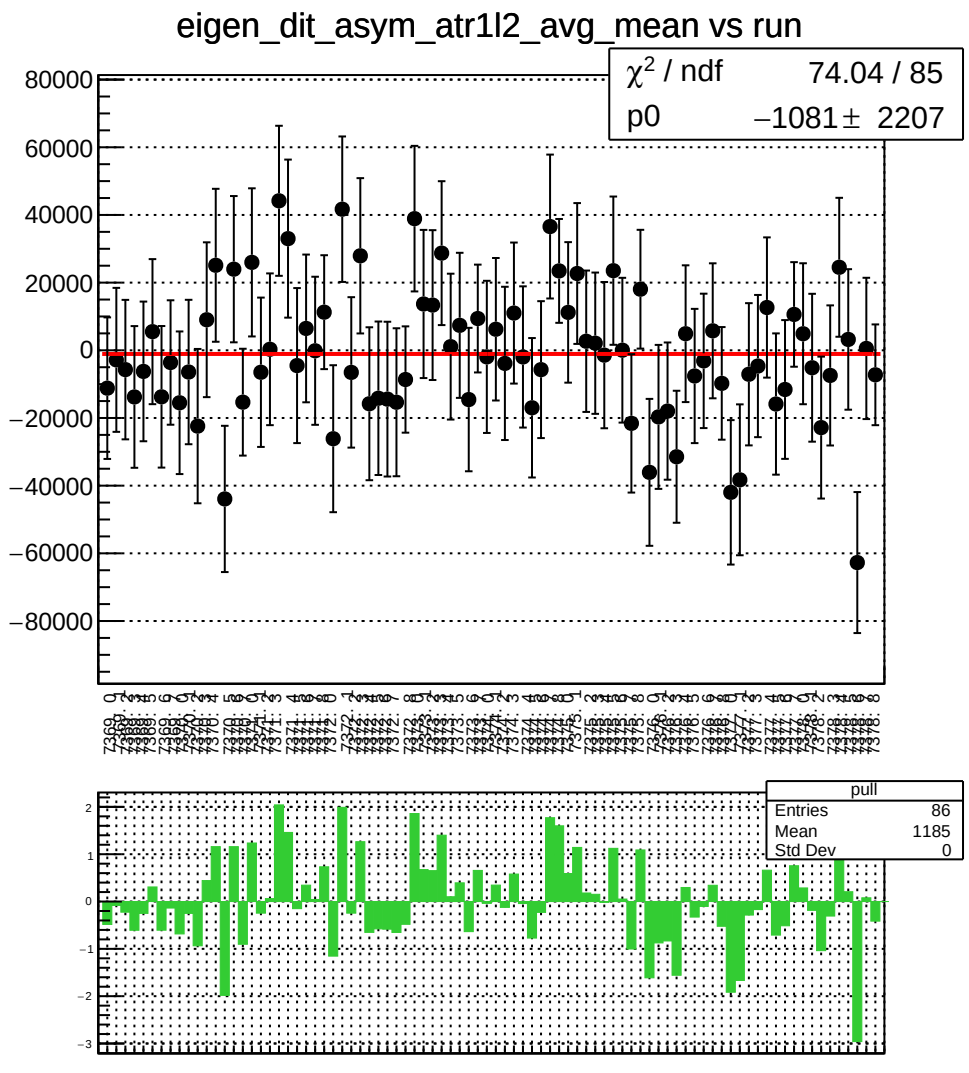

pull1D
Entries 86
Mean −0.002843
Std Dev 0.9278

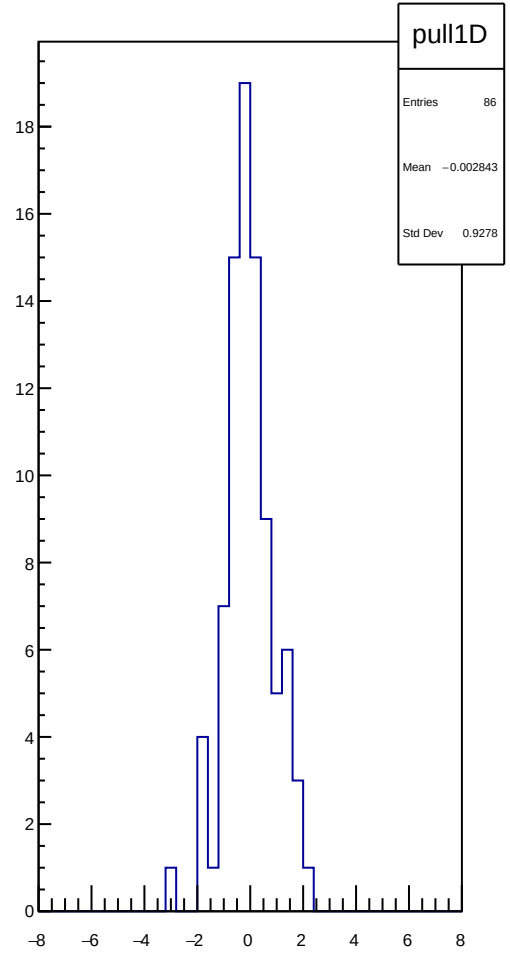

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 2232 / 85
p0 2024 ± 1.561
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

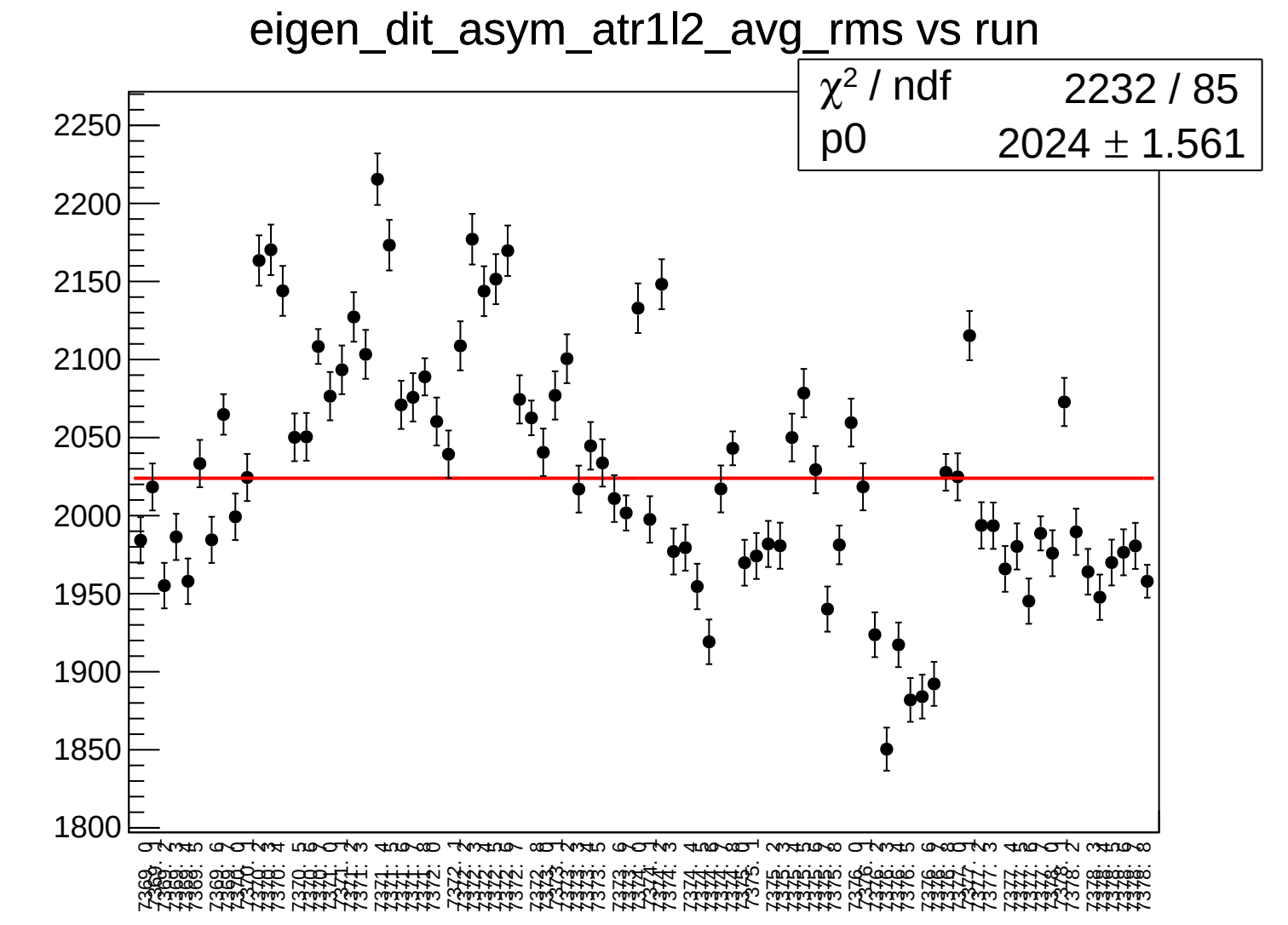

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.85 / 85
p0 −6341 ± 5928
200
100
0
−100
−200
pull
Entries 86
Mean −315.5
Std Dev 0
2
1
0
−1
−2
−3

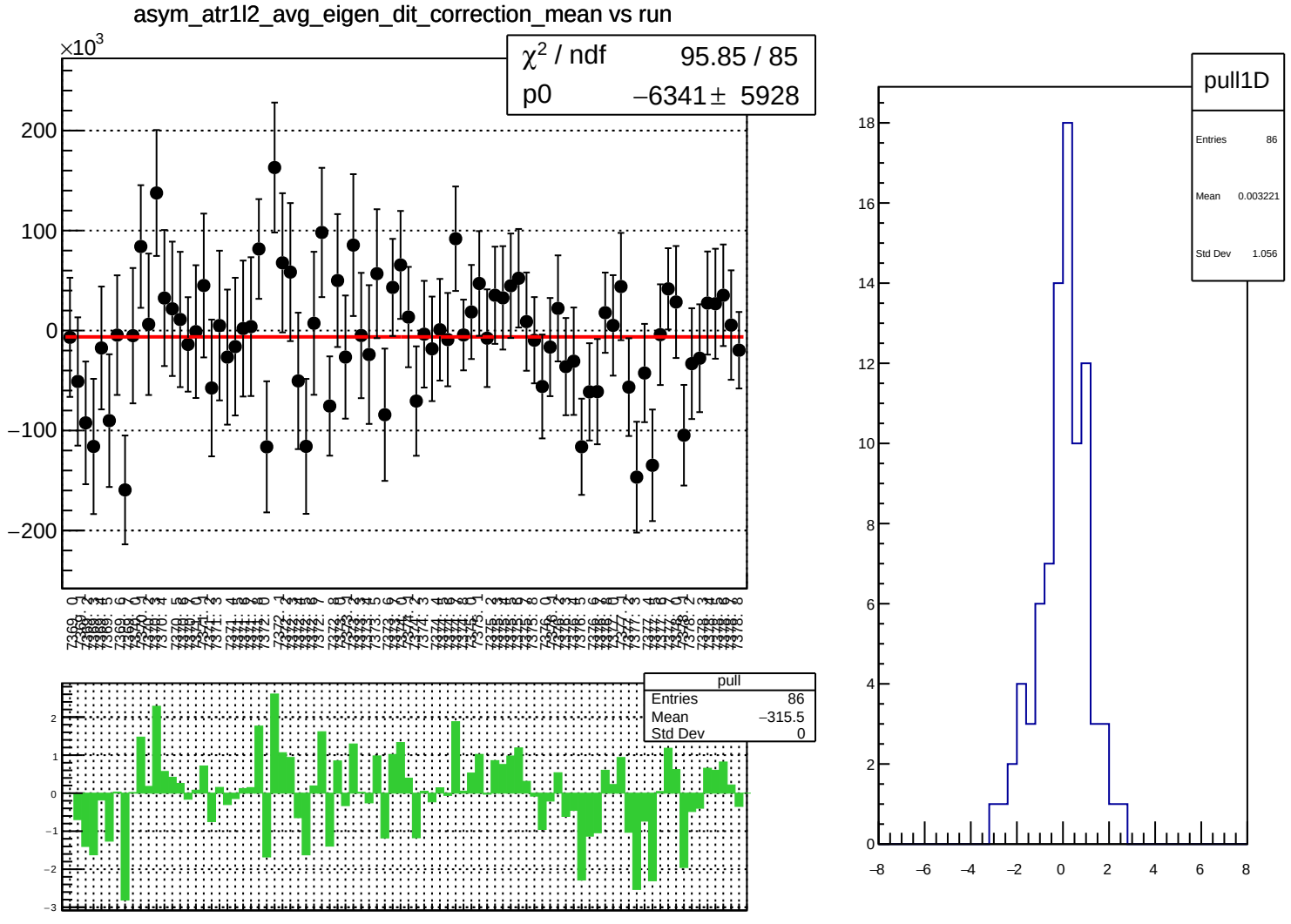

pull1D
Entries 86
Mean 0.003221
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

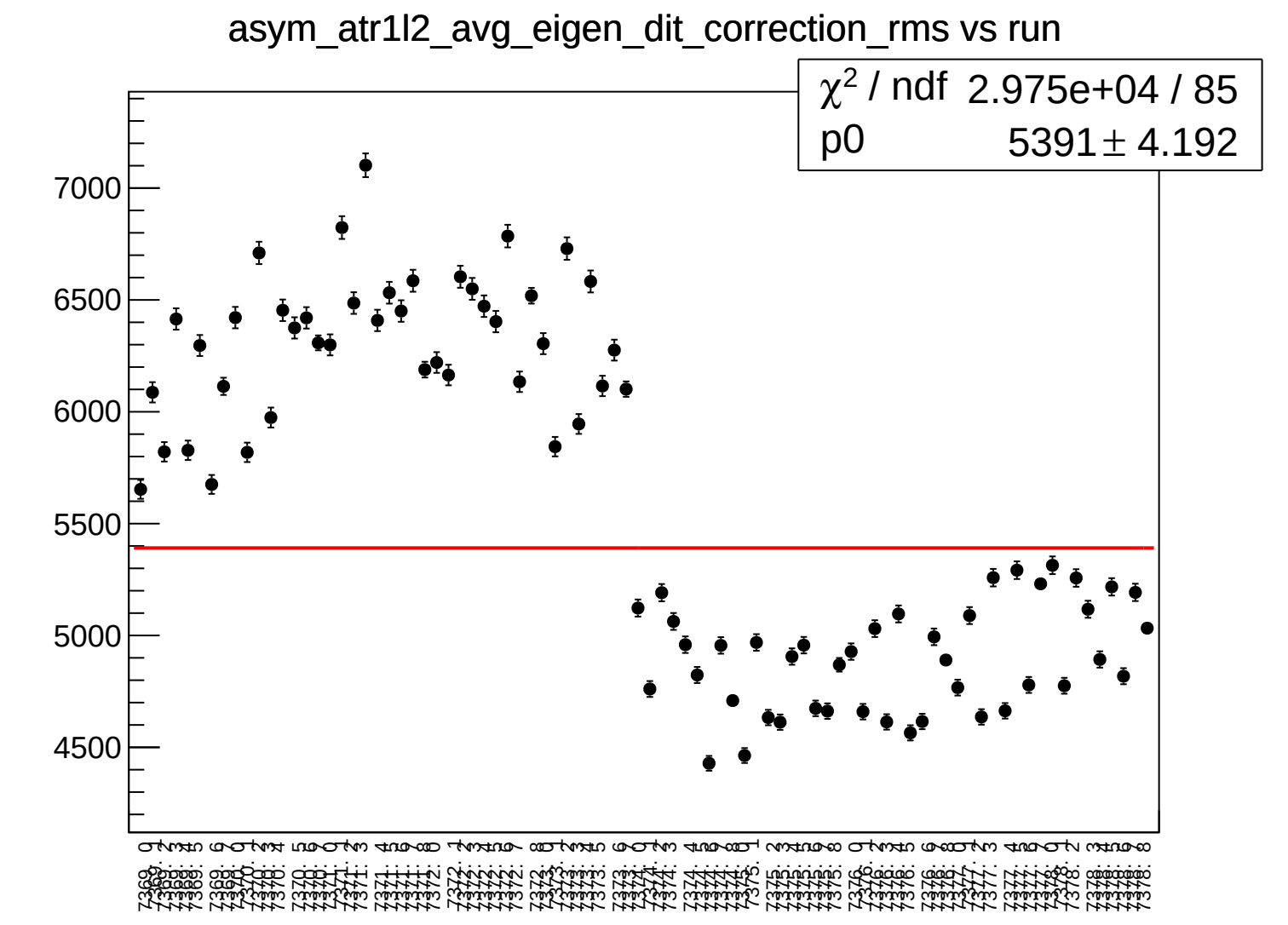

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 2.975e+04 / 85
p0 5391 ± 4.192
7000
6500
6000
5500
5000
4500

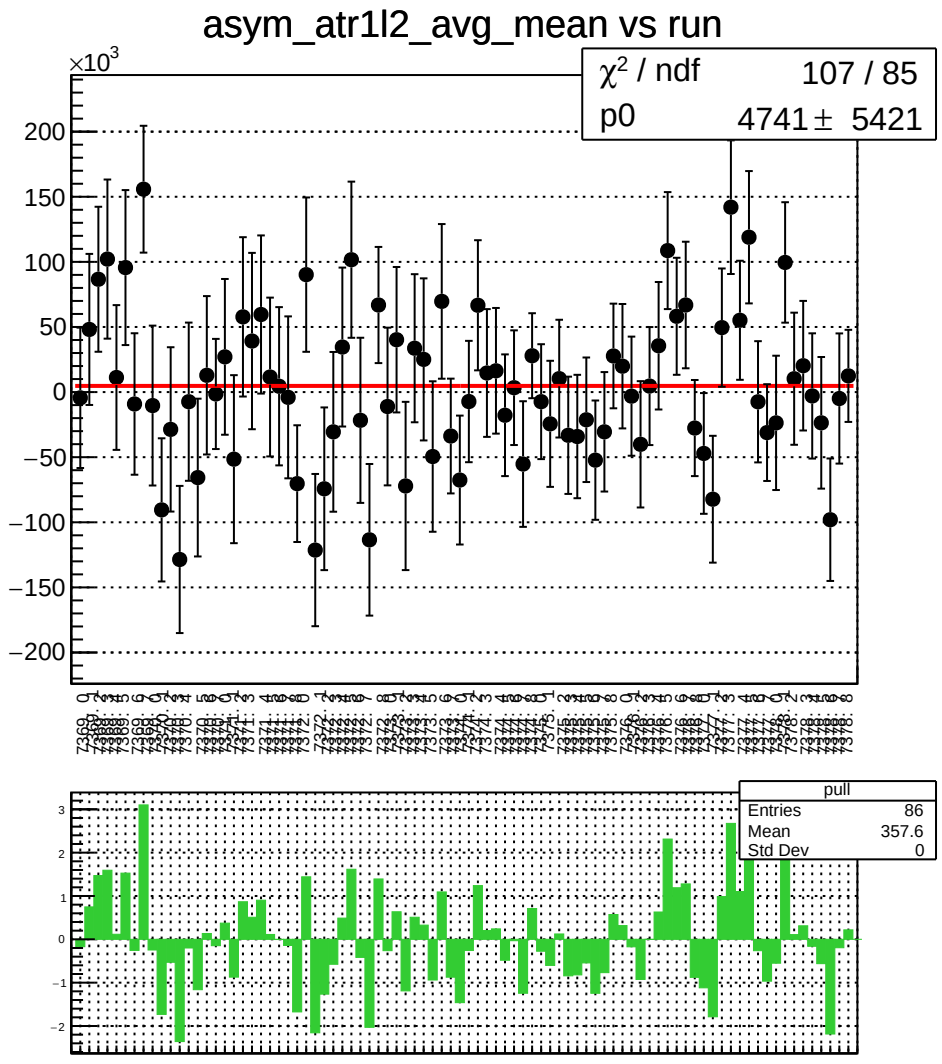

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 74.04 / 85
p0 −1081 ± 2207
pull
Entries 86
Mean 1185
Std Dev 0

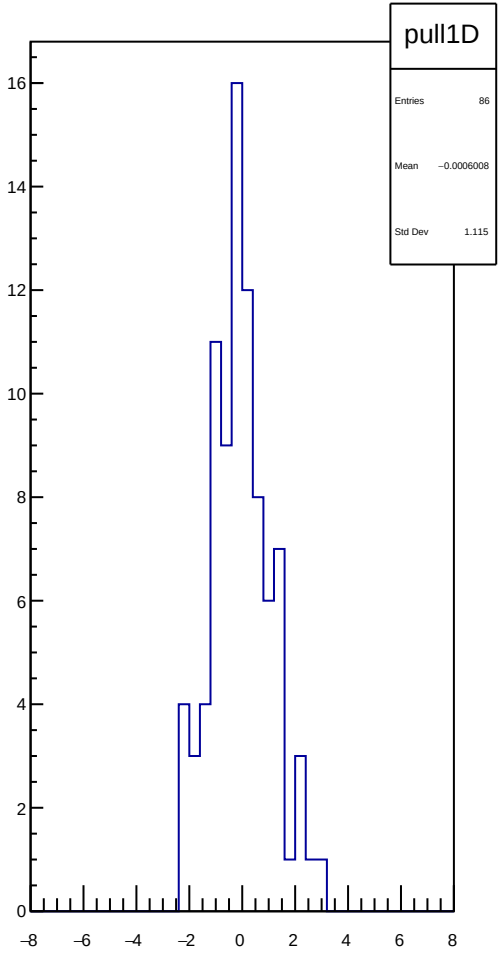

pull1D
Entries 86
Mean −0.002843
Std Dev 0.9278

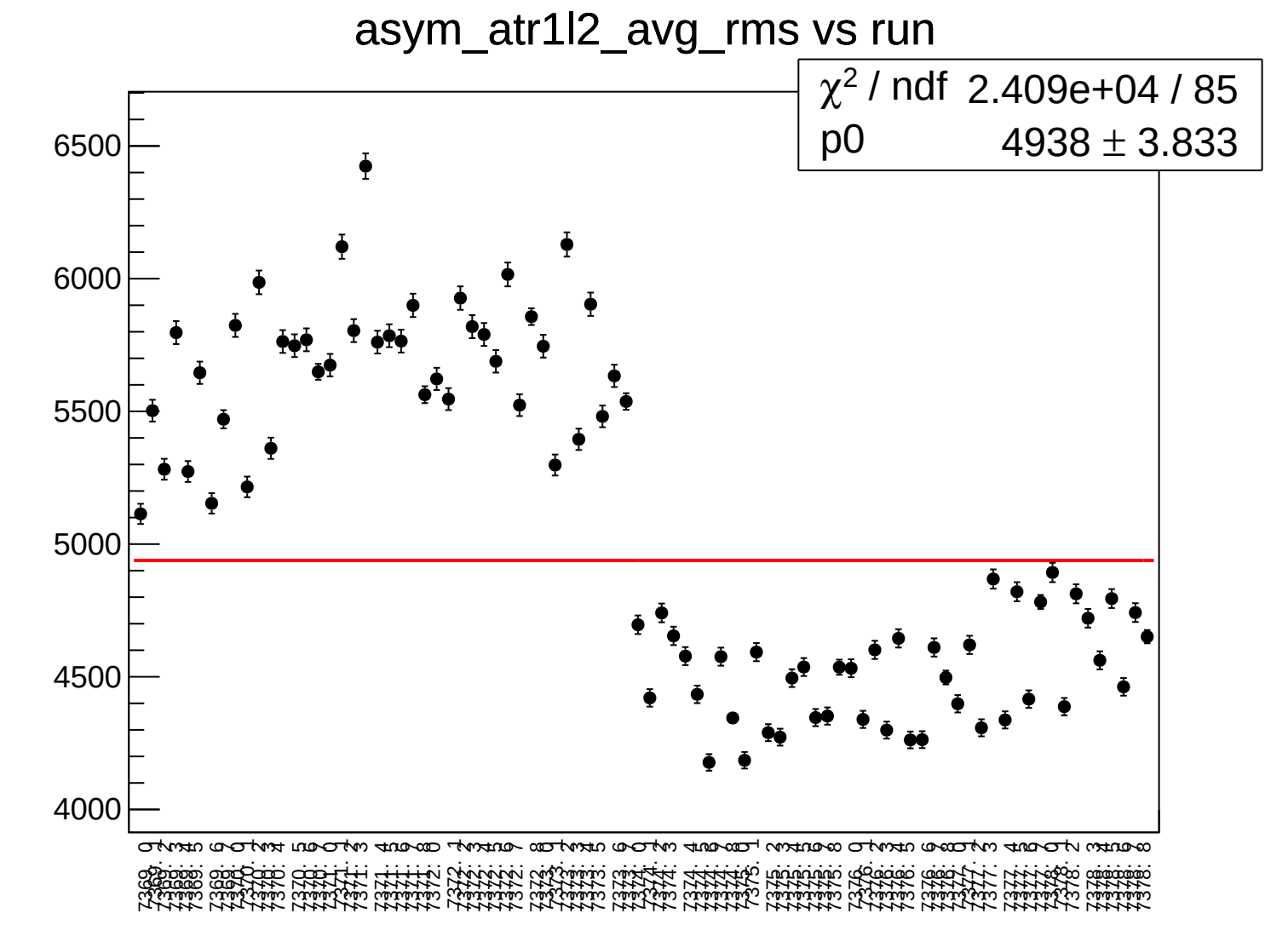

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 2232 / 85
p0 2024 ± 1.561
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

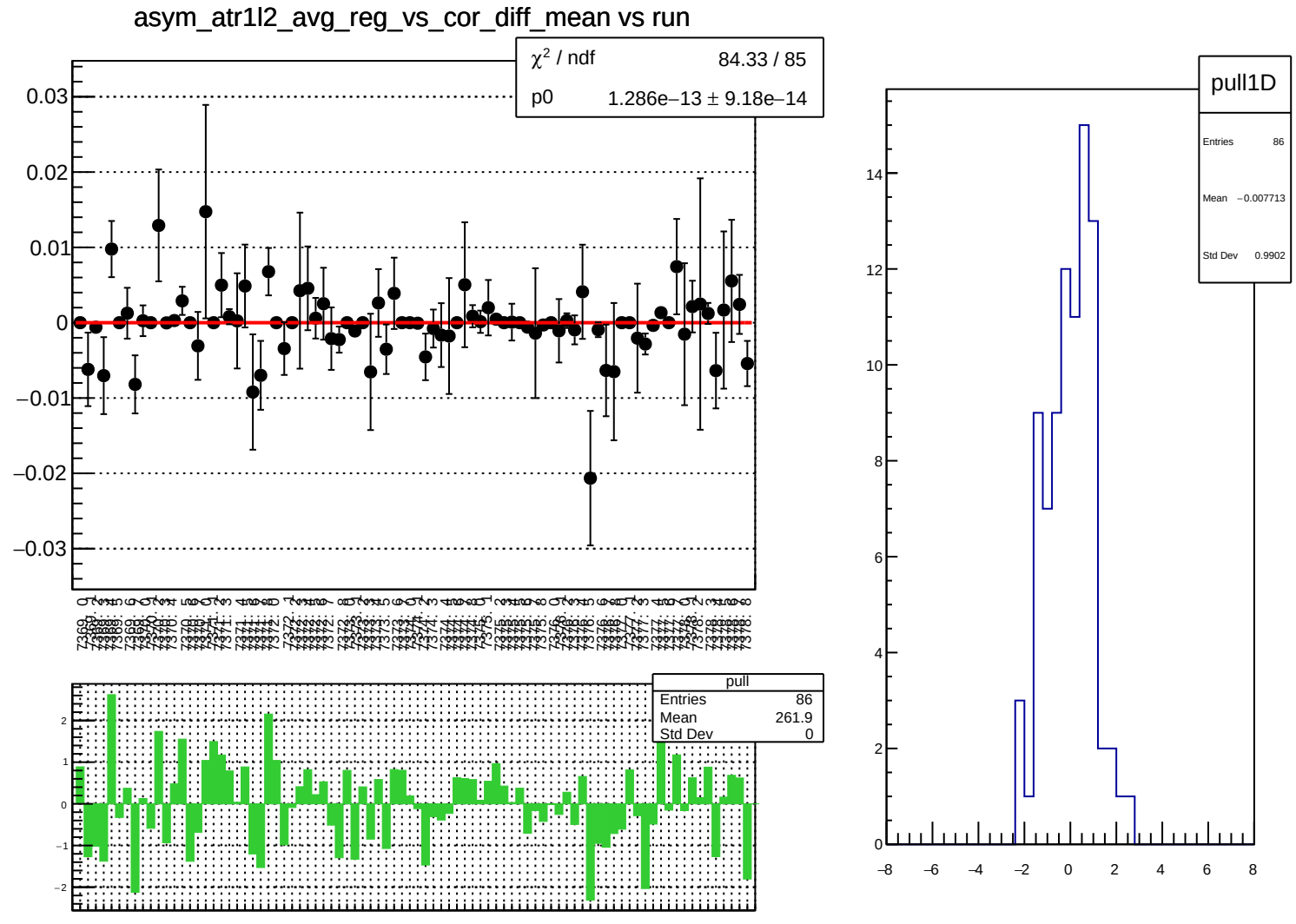

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.85 / 85
p0 −6341 ± 5928
200
100
0
−100
−200
pull
Entries 86
Mean −315.5
Std Dev 0
pull1D
Entries 86
Mean 0.003221
Std Dev 1.056

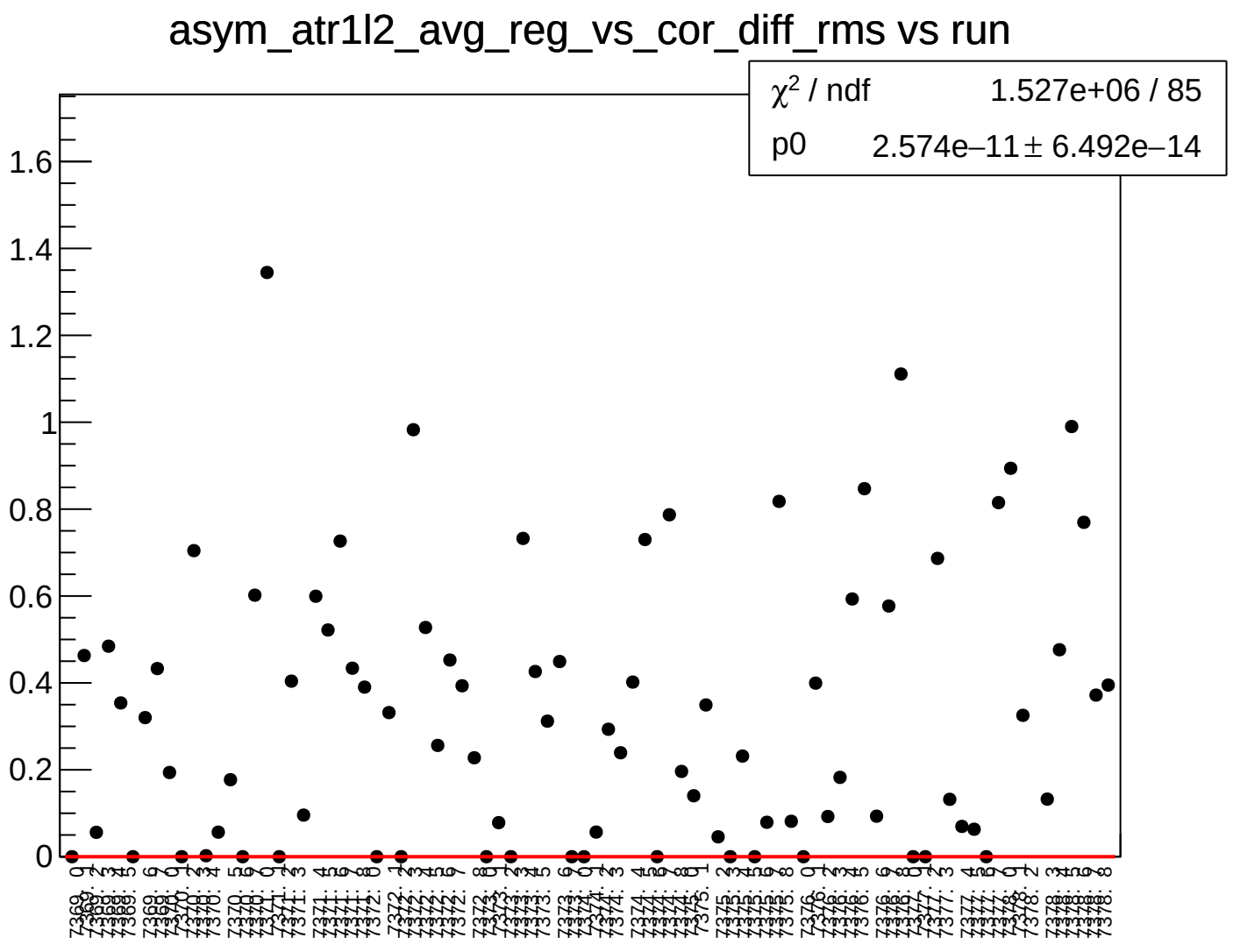

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.975e+04 / 85
p0 5391 ± 4.192
7000
6500
6000
5500
5000
4500

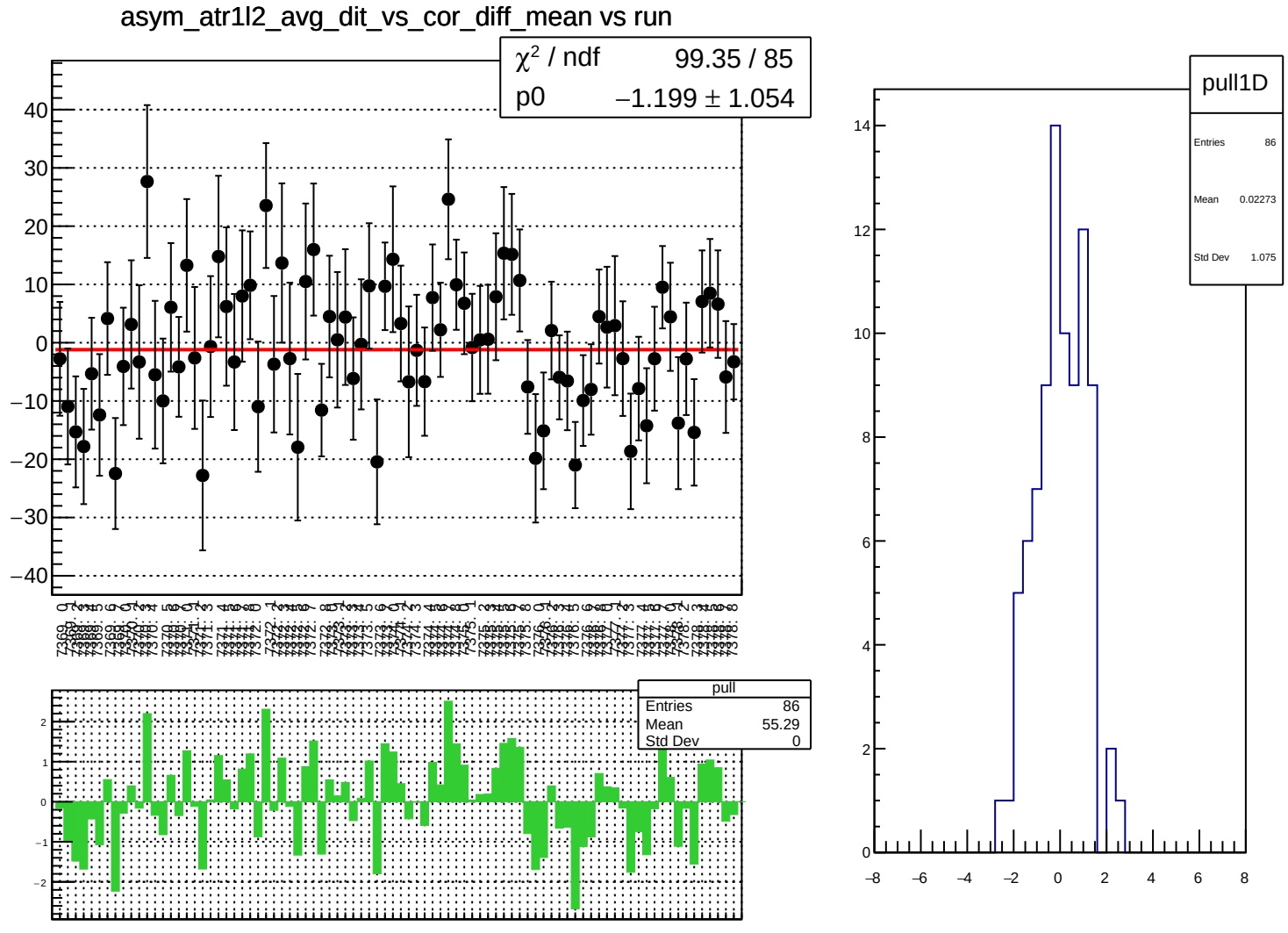

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 107 / 85
p0 4741 ± 5421
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 357.6
Std Dev 0
3
2
1
0
−1
−2

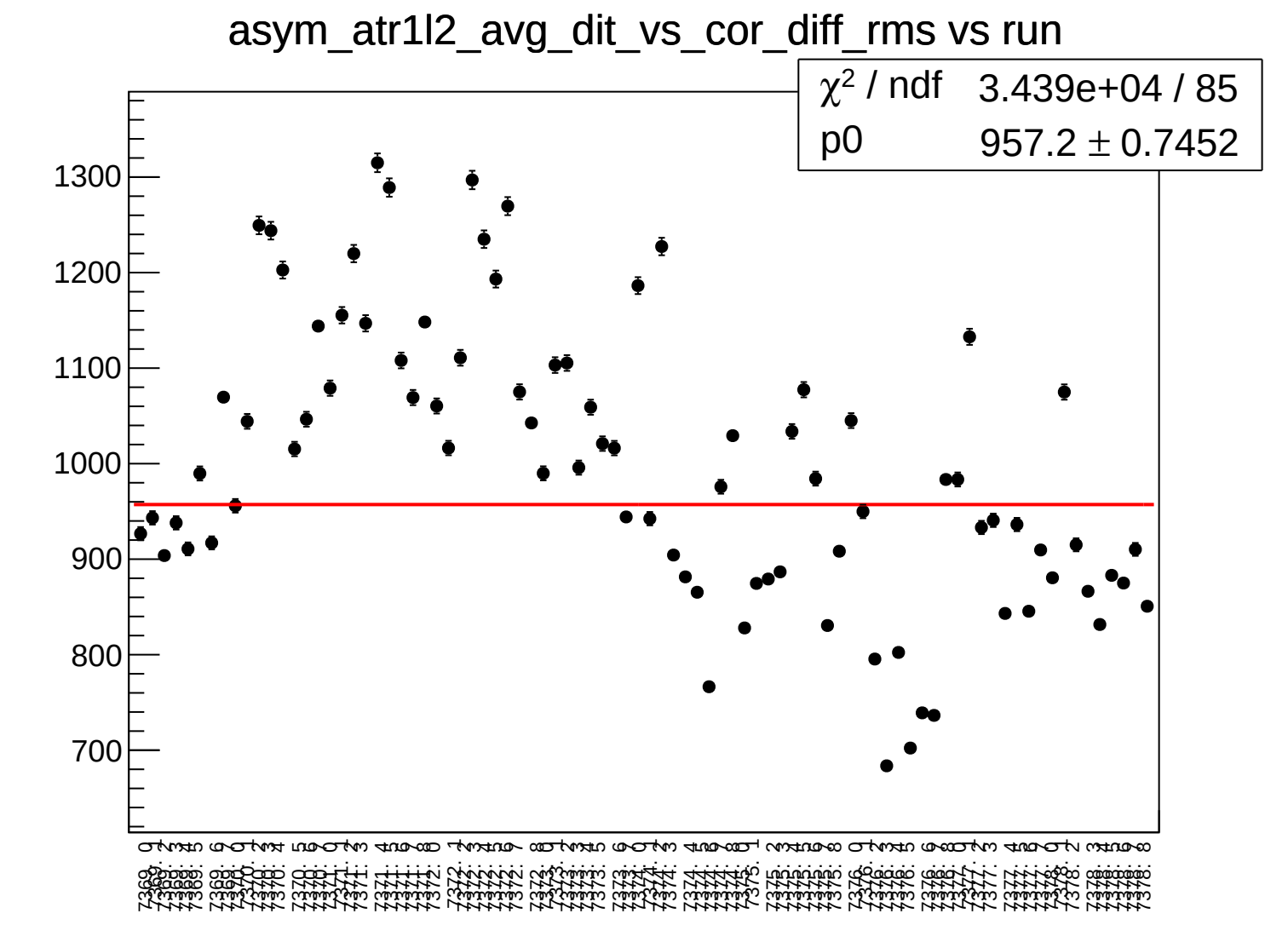

pull1D
Entries 86
Mean −0.0006008
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

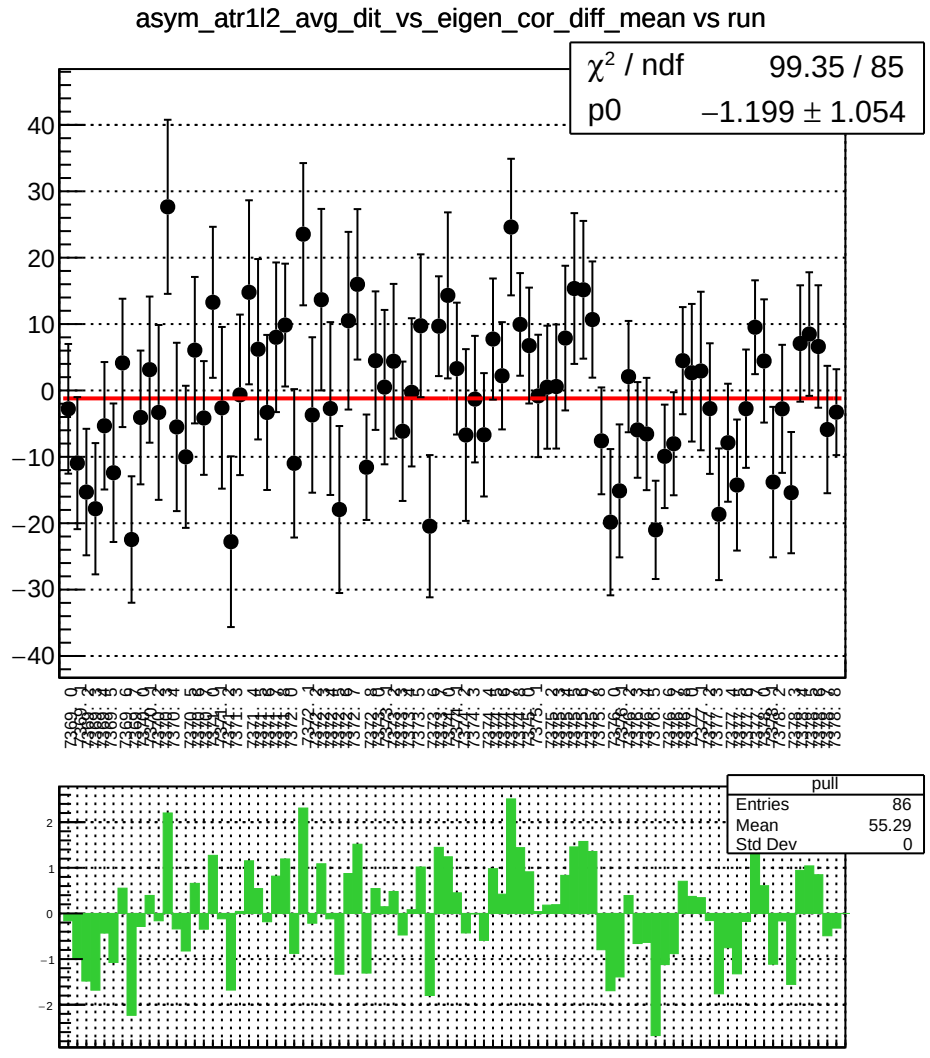

asym_atr1l2_avg_rms vs run
χ² / ndf 2.409e+04 / 85
p0 4938 ± 3.833
6500
6000
5500
5000
4500
4000

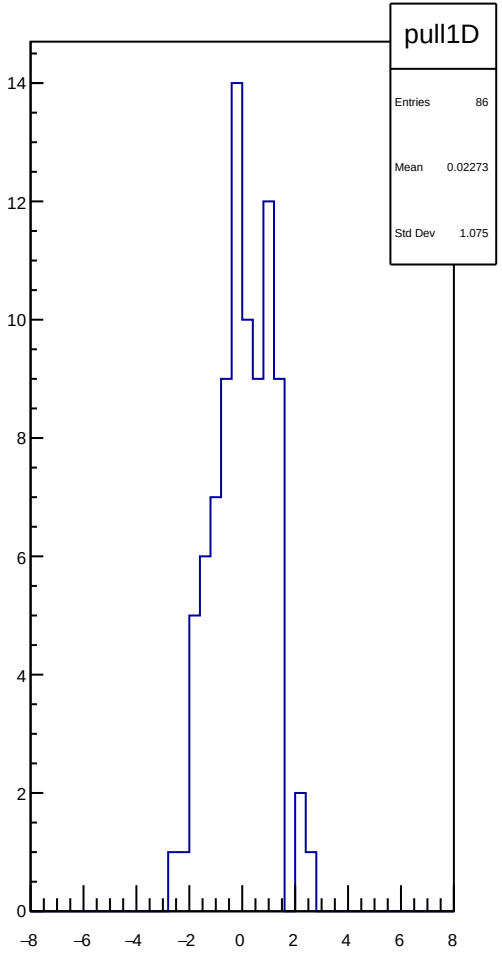

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.33 / 85
p0 1.286e−13 ± 9.18e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 261.9
Std Dev 0
pull1D
Entries 86
Mean −0.007713
Std Dev 0.9902
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

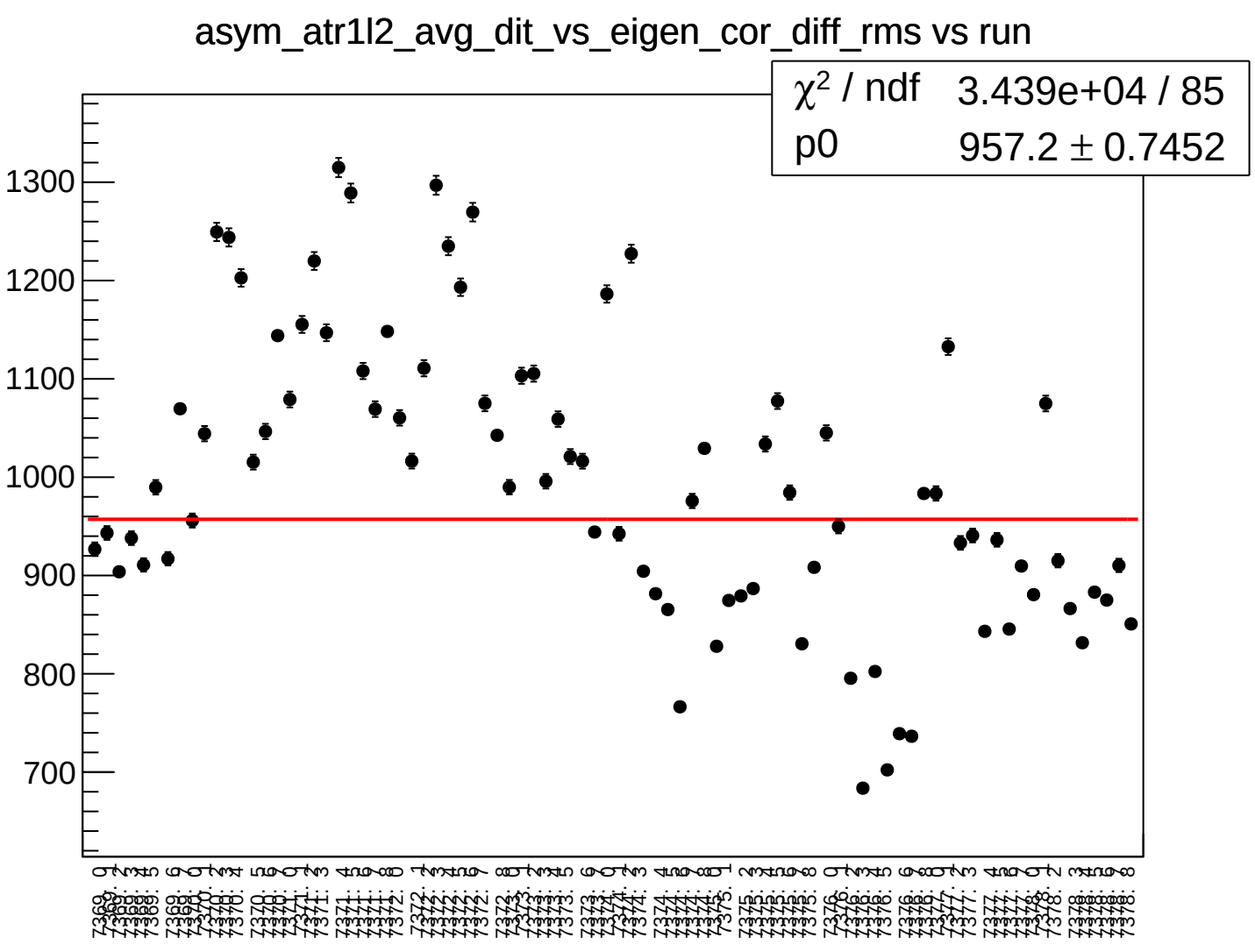

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.527e+06 / 85
p0 2.574e−11 ± 6.492e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

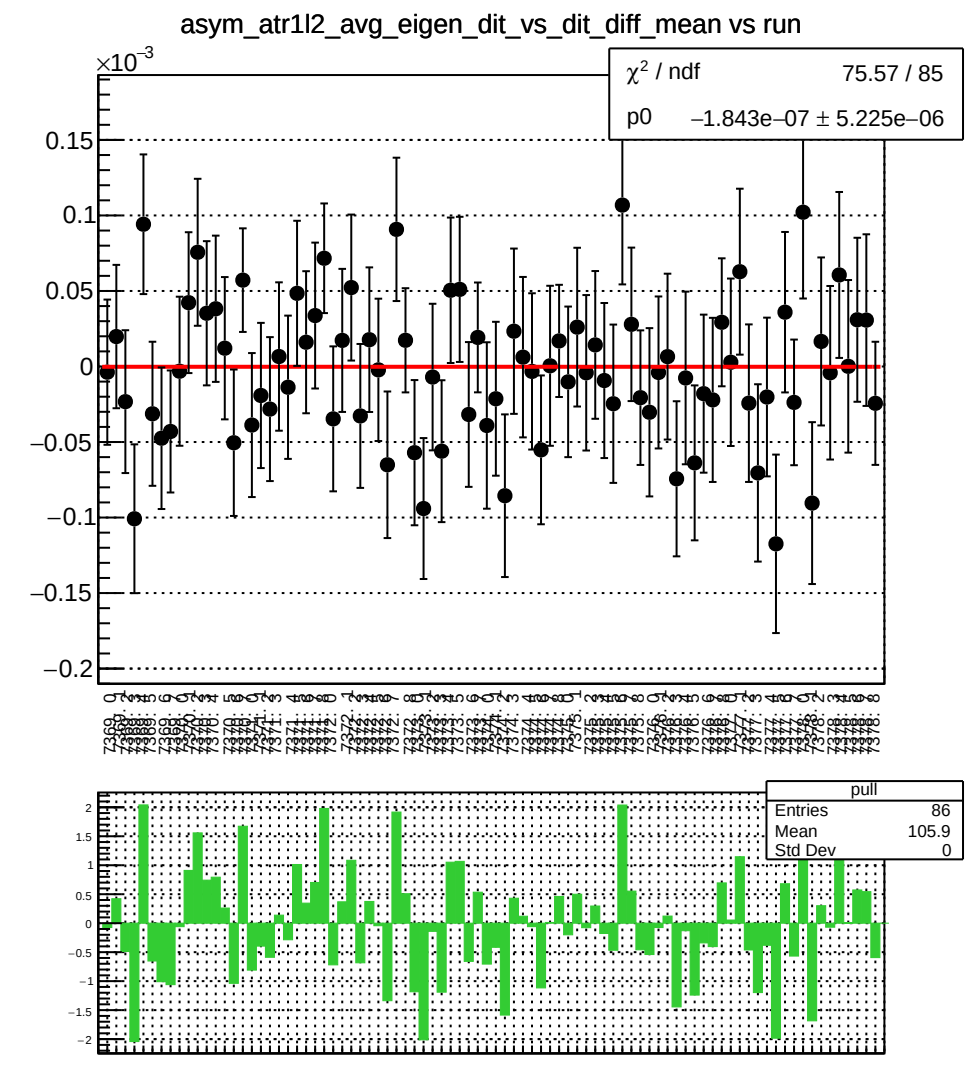

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.35 / 85
p0 −1.199 ± 1.054
pull
Entries 86
Mean 55.29
Std Dev 0
pull1D
Entries 86
Mean 0.02273
Std Dev 1.075

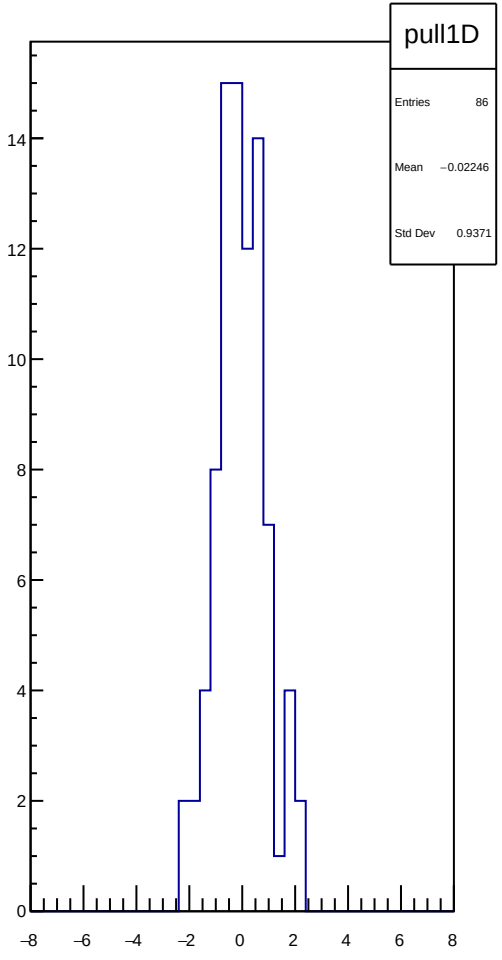

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.439e+04 / 85
p0 957.2 ± 0.7452
1300
1200
1100
1000
900
800
700

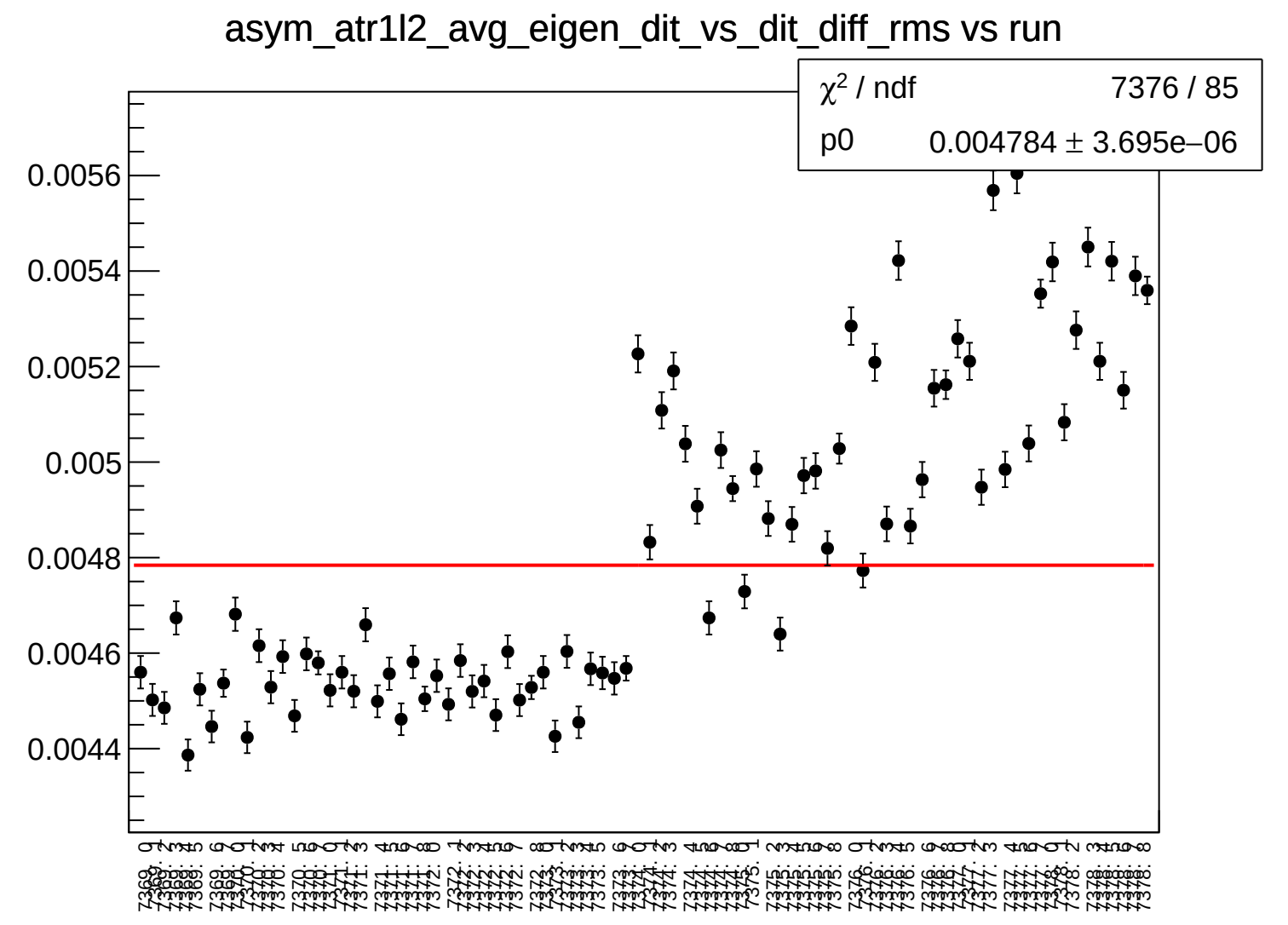

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.35 / 85
p0 −1.199 ± 1.054
pull
Entries 86
Mean 55.29
Std Dev 0

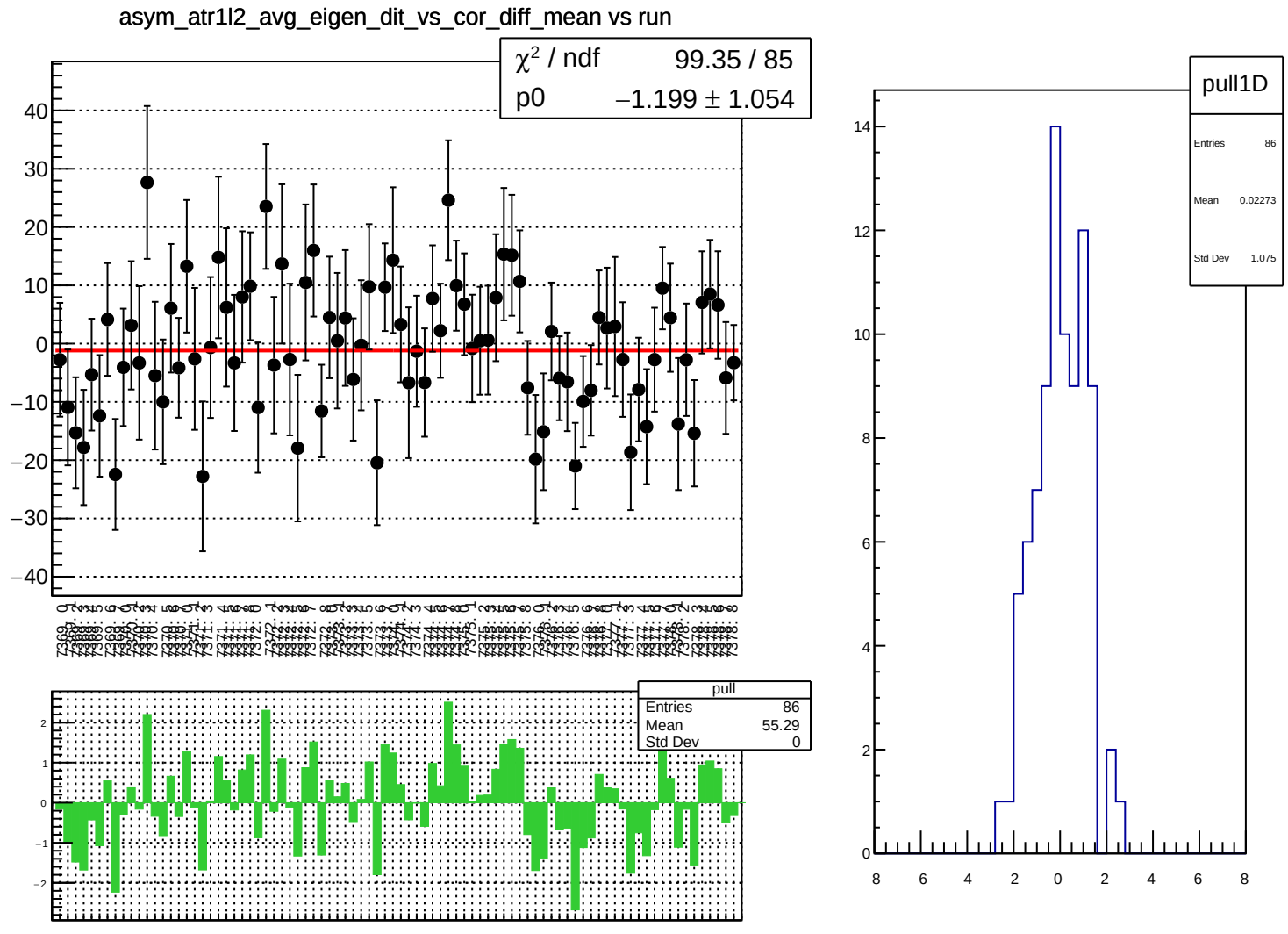

pull1D
Entries 86
Mean 0.02273
Std Dev 1.075

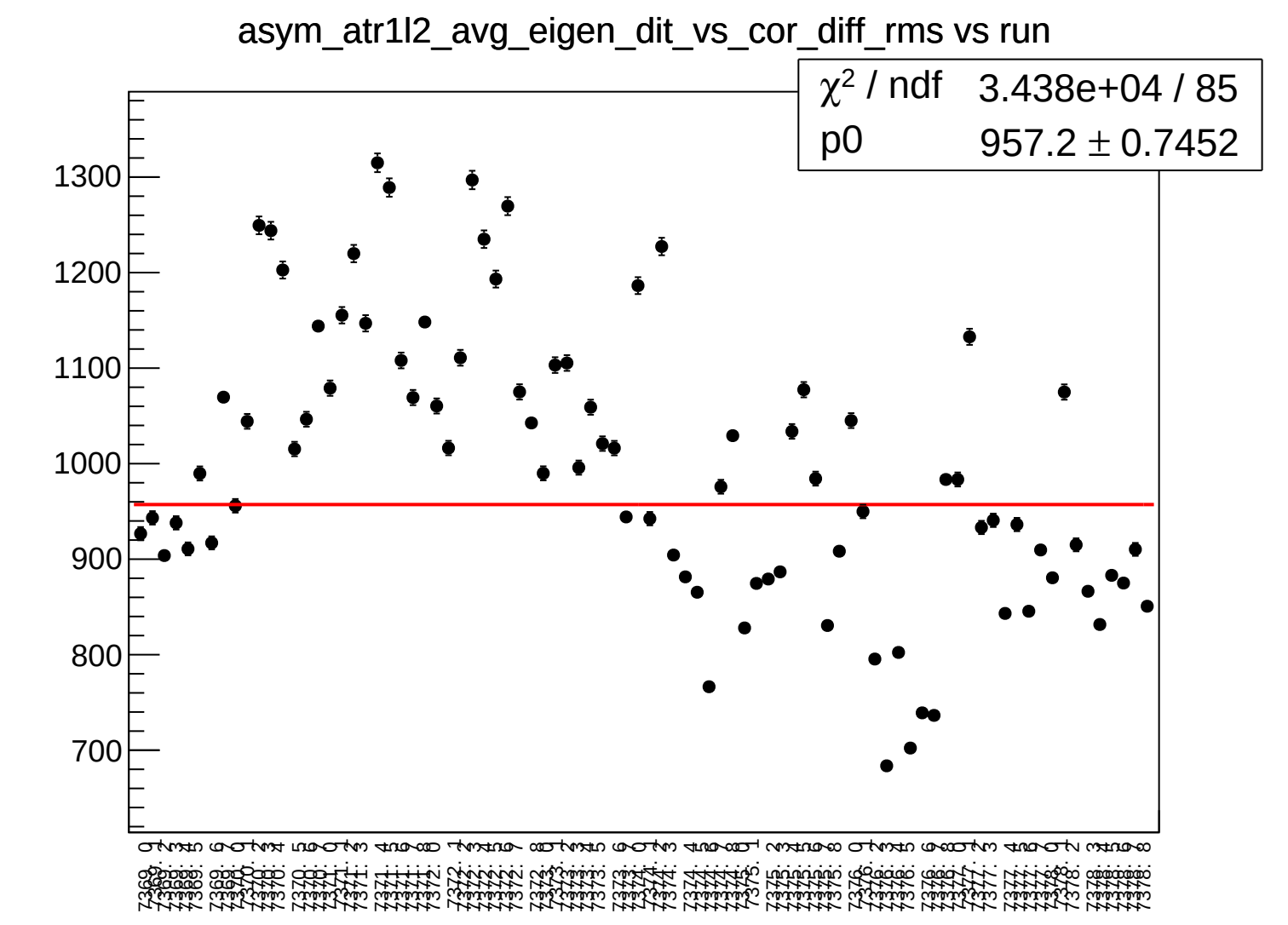

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.439e+04 / 85
p0 957.2 ± 0.7452
1300
1200
1100
1000
900
800
700

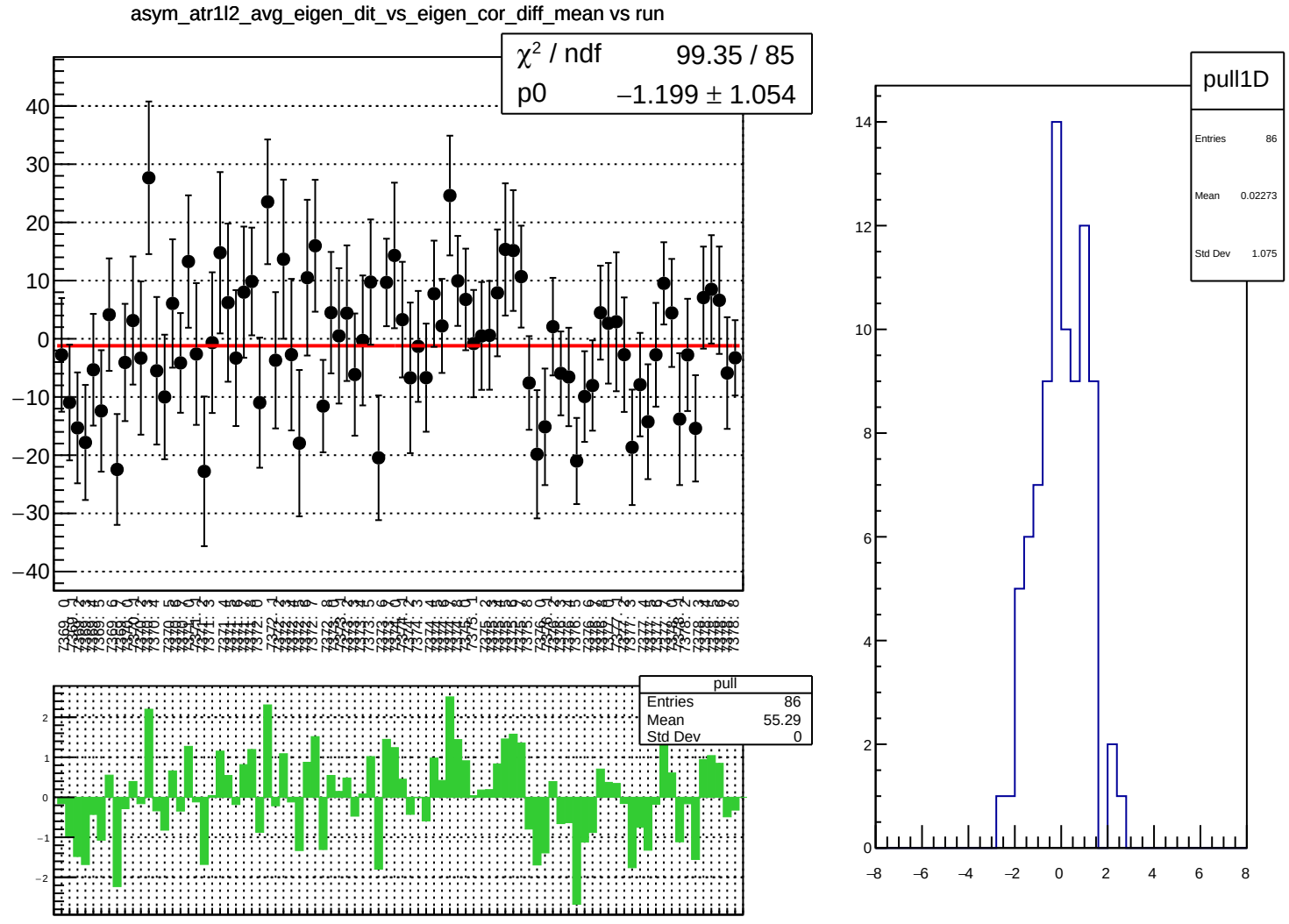

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.57 / 85
p0 −1.843e−07 ± 5.225e−06
pull
Entries 86
Mean 105.9
Std Dev 0

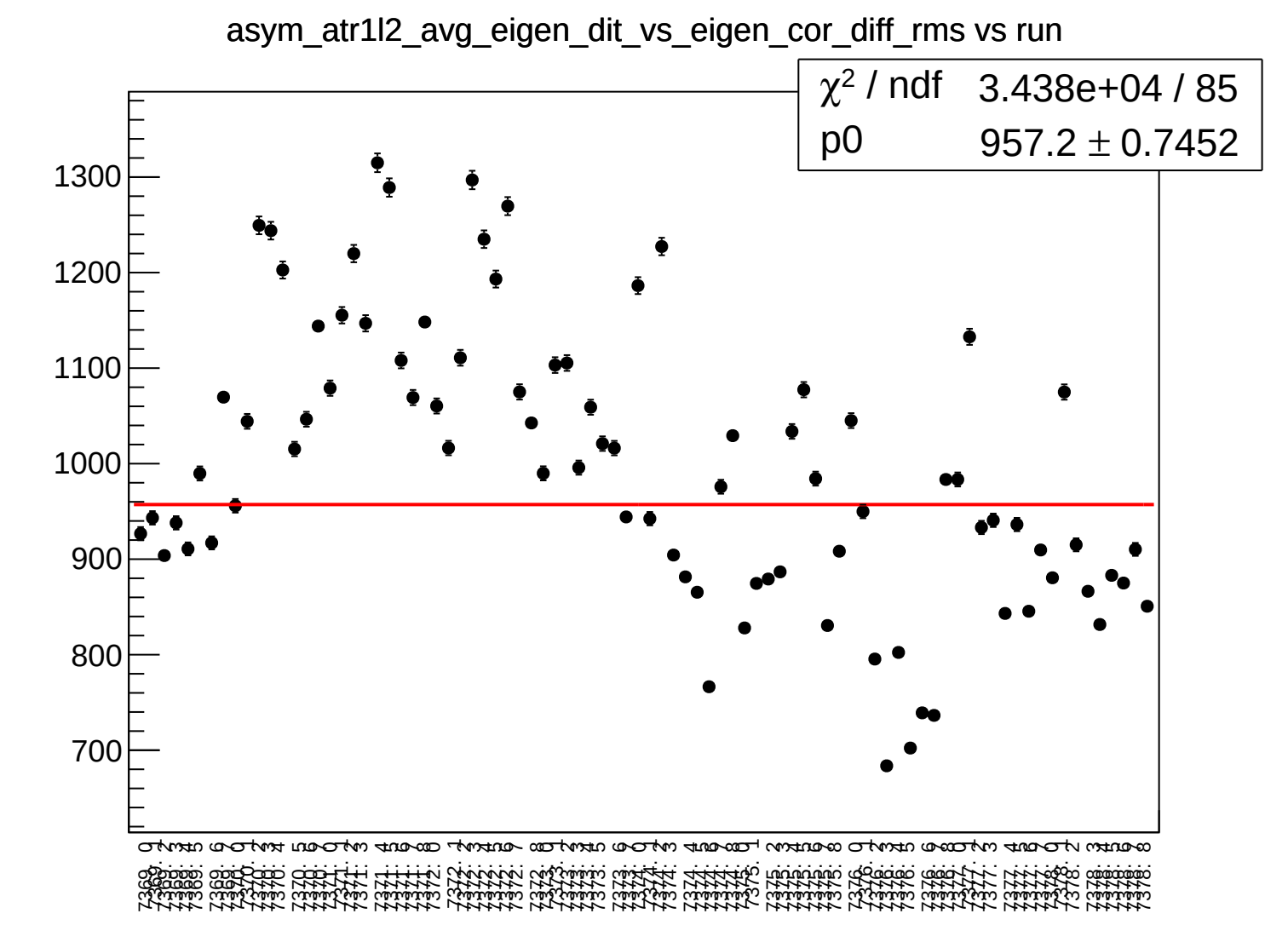

pull1D
Entries 86
Mean −0.02246
Std Dev 0.9371

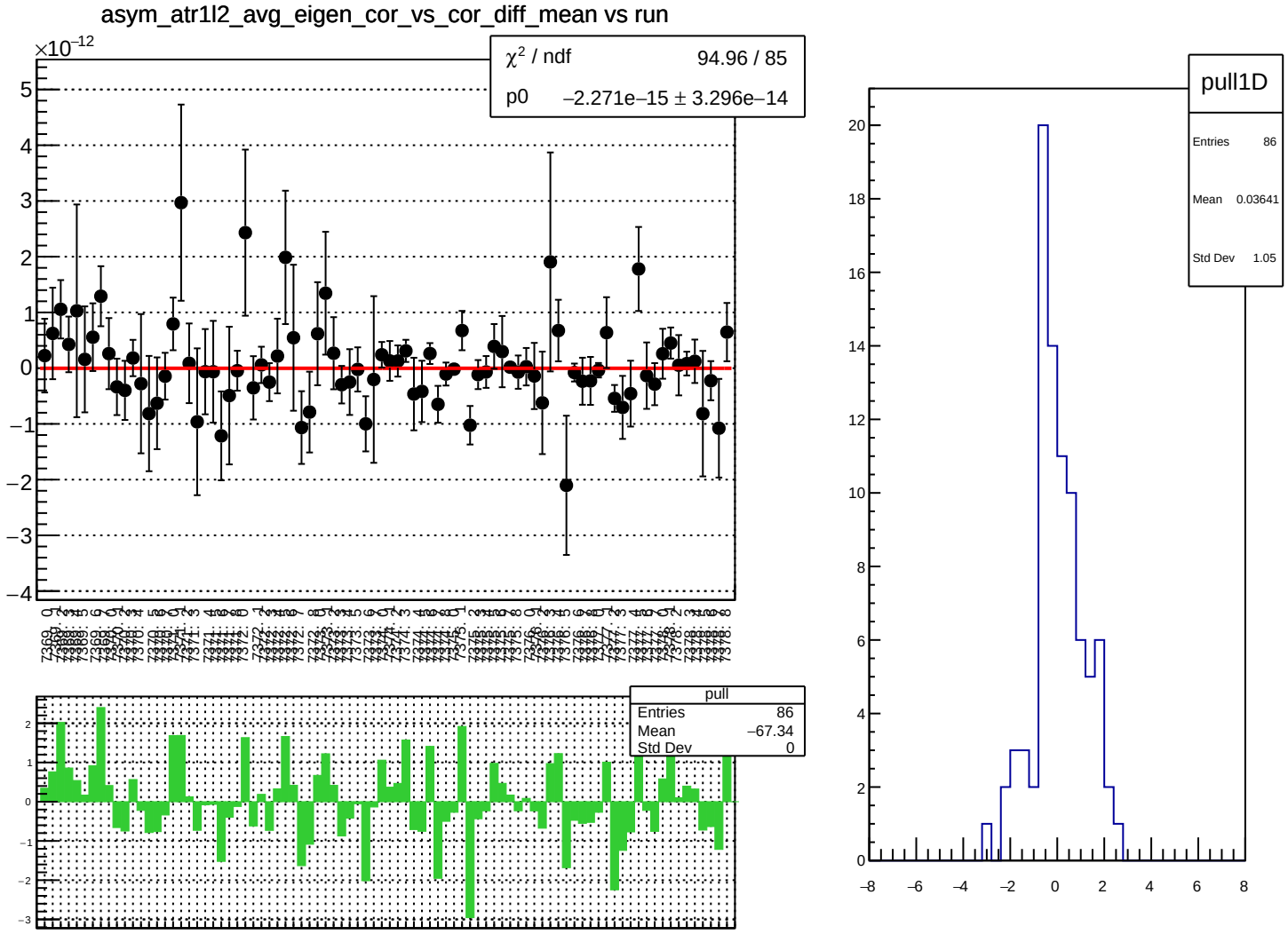

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7376 / 85
p0 0.004784 ± 3.695e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

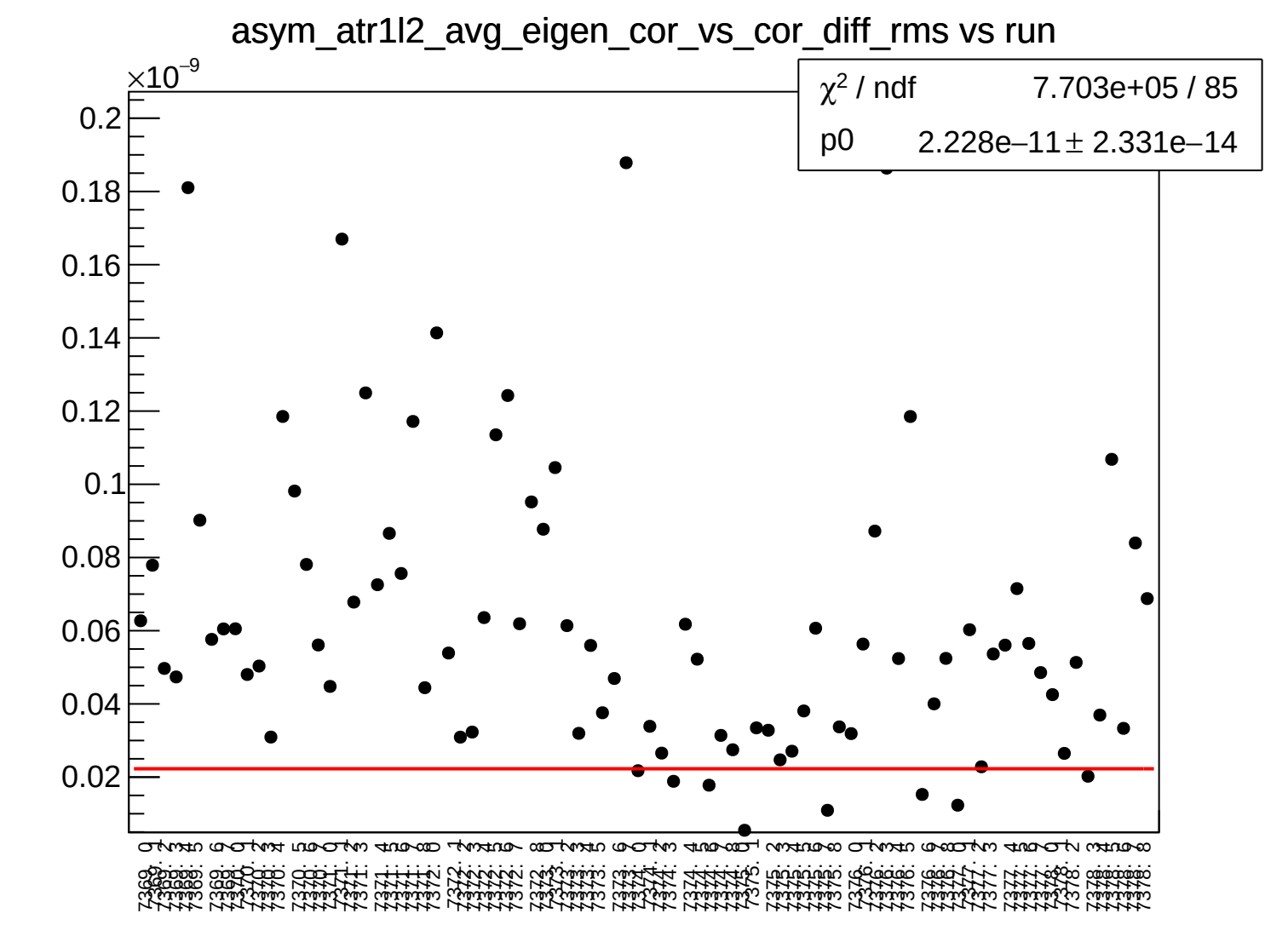

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.35 / 85
p0 −1.199 ± 1.054
pull
Entries 86
Mean 55.29
Std Dev 0
pull1D
Entries 86
Mean 0.02273
Std Dev 1.075

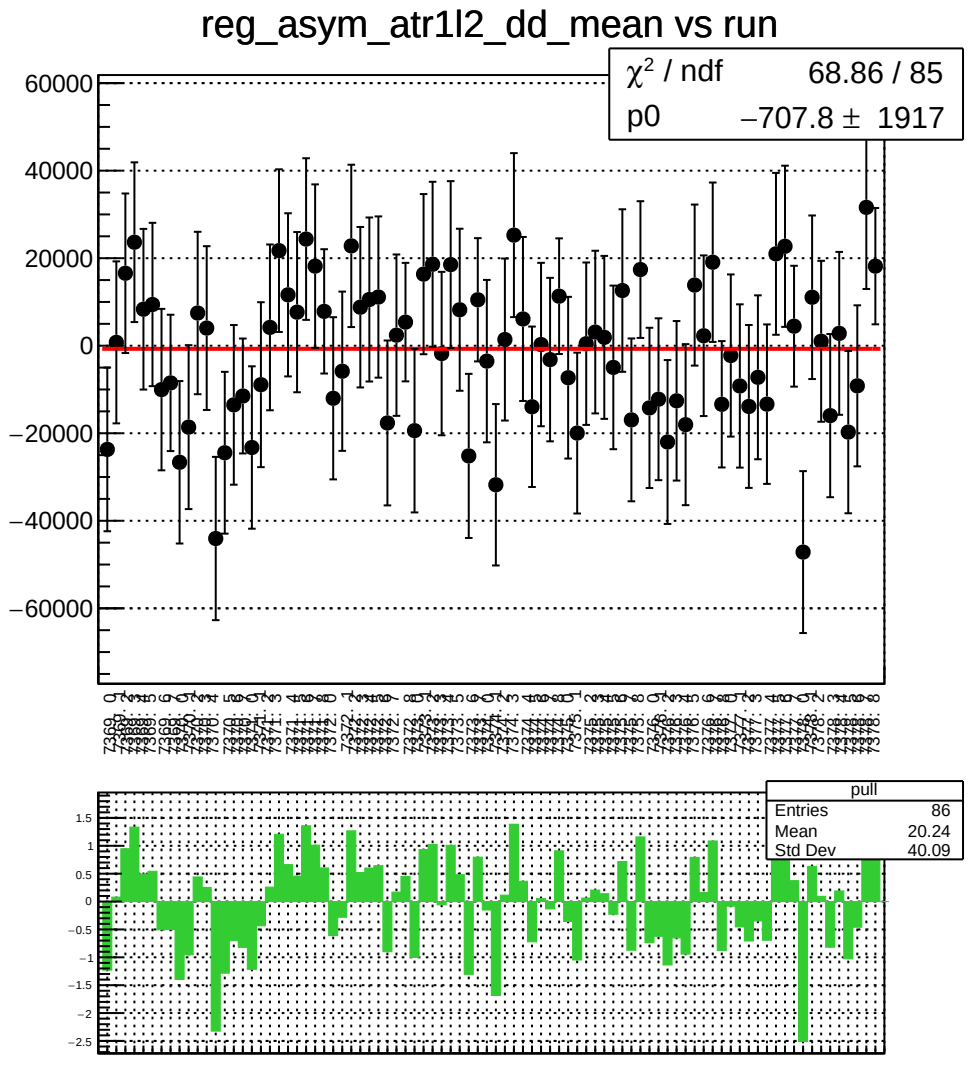

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.438e+04 / 85
p0 957.2 ± 0.7452
1300
1200
1100
1000
900
800
700

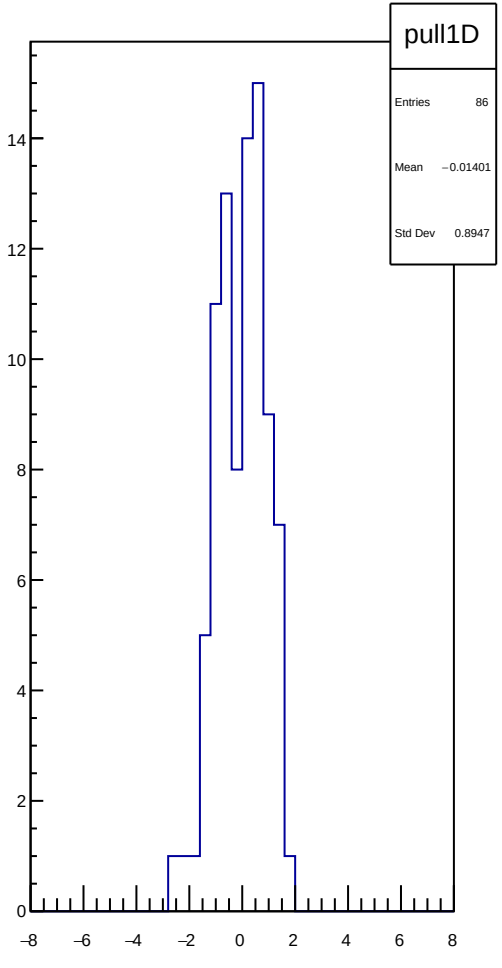

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.35 / 85
p0 −1.199 ± 1.054
pull
Entries 86
Mean 55.29
Std Dev 0
pull1D
Entries 86
Mean 0.02273
Std Dev 1.075

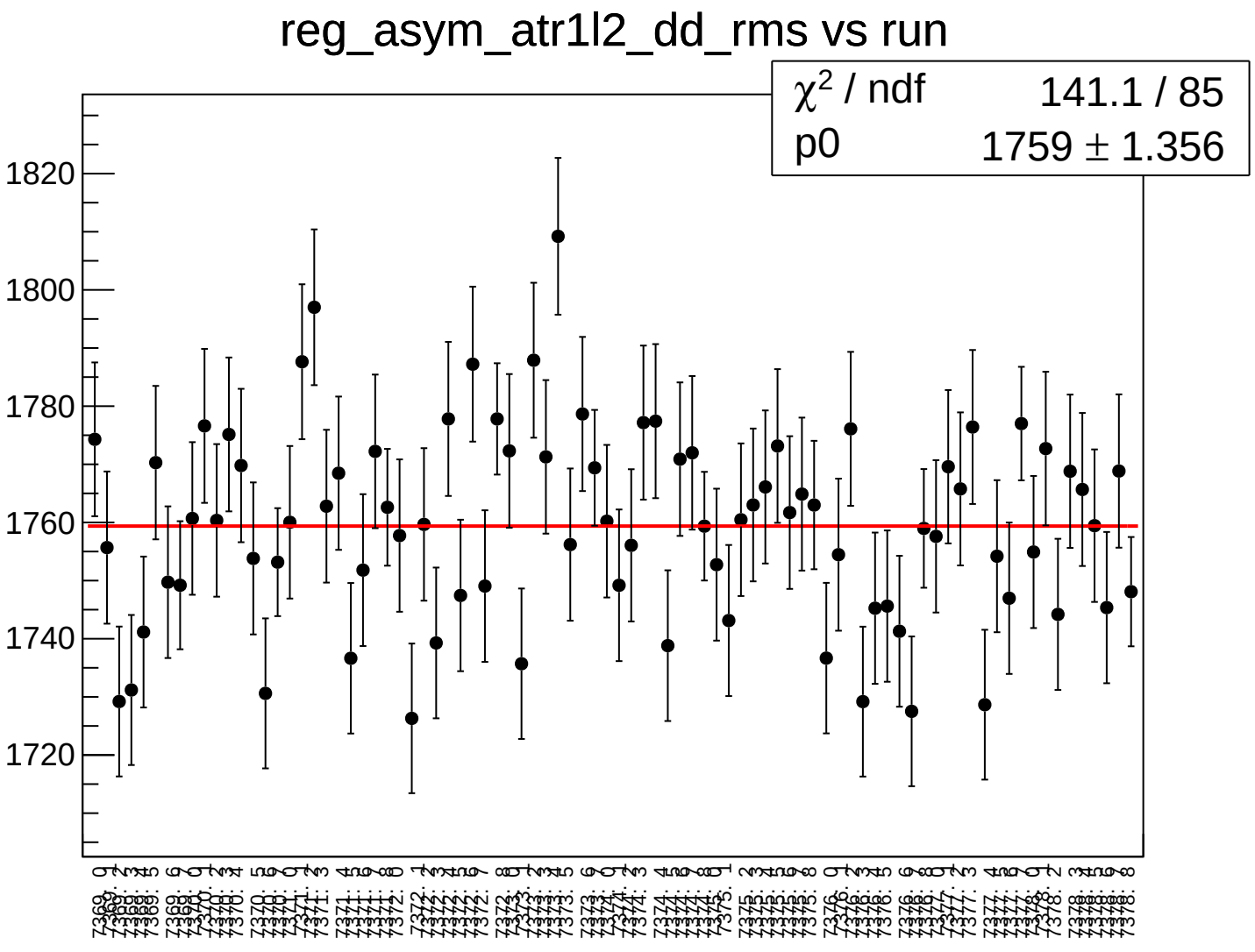

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.438e+04 / 85
p0 957.2 ± 0.7452
1300
1200
1100
1000
900
800
700

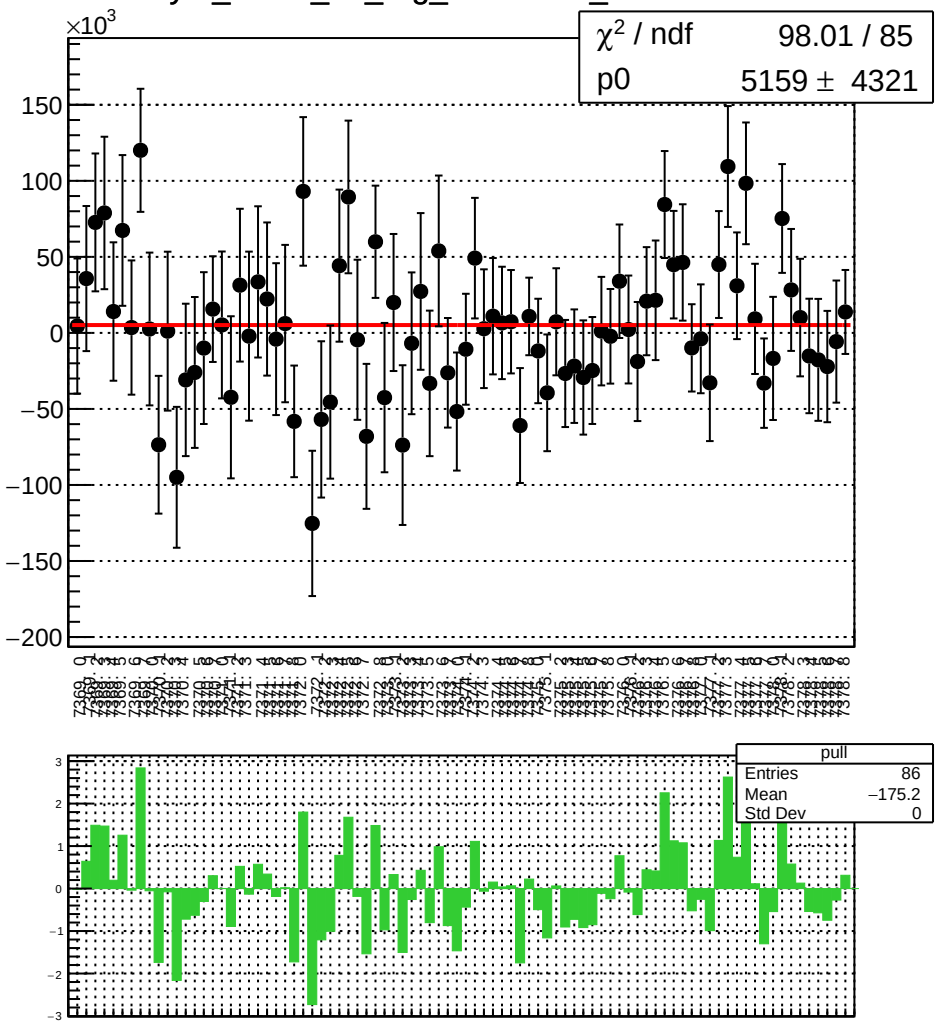

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.96 / 85
p0 −2.271e−15 ± 3.296e−14
pull
Entries 86
Mean −67.34
Std Dev 0
pull1D
Entries 86
Mean 0.03641
Std Dev 1.05

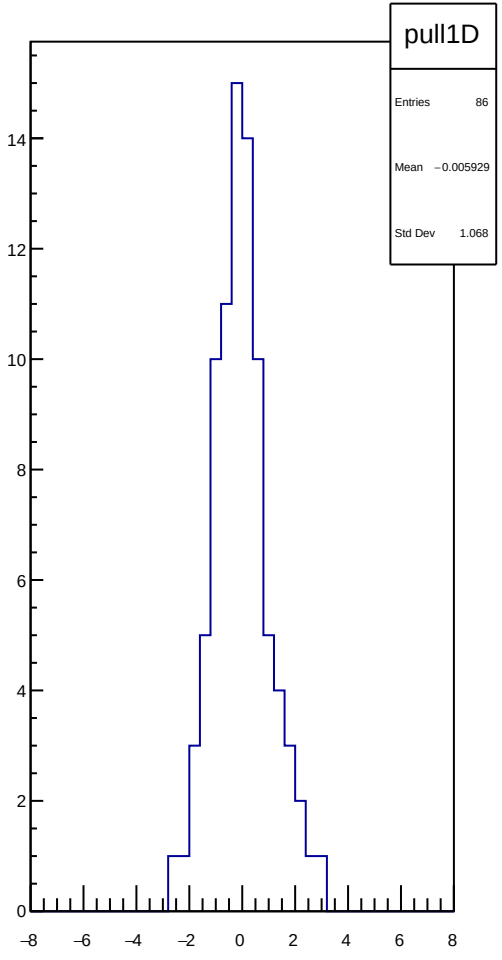

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.703e+05 / 85
p0 2.228e−11 ± 2.331e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

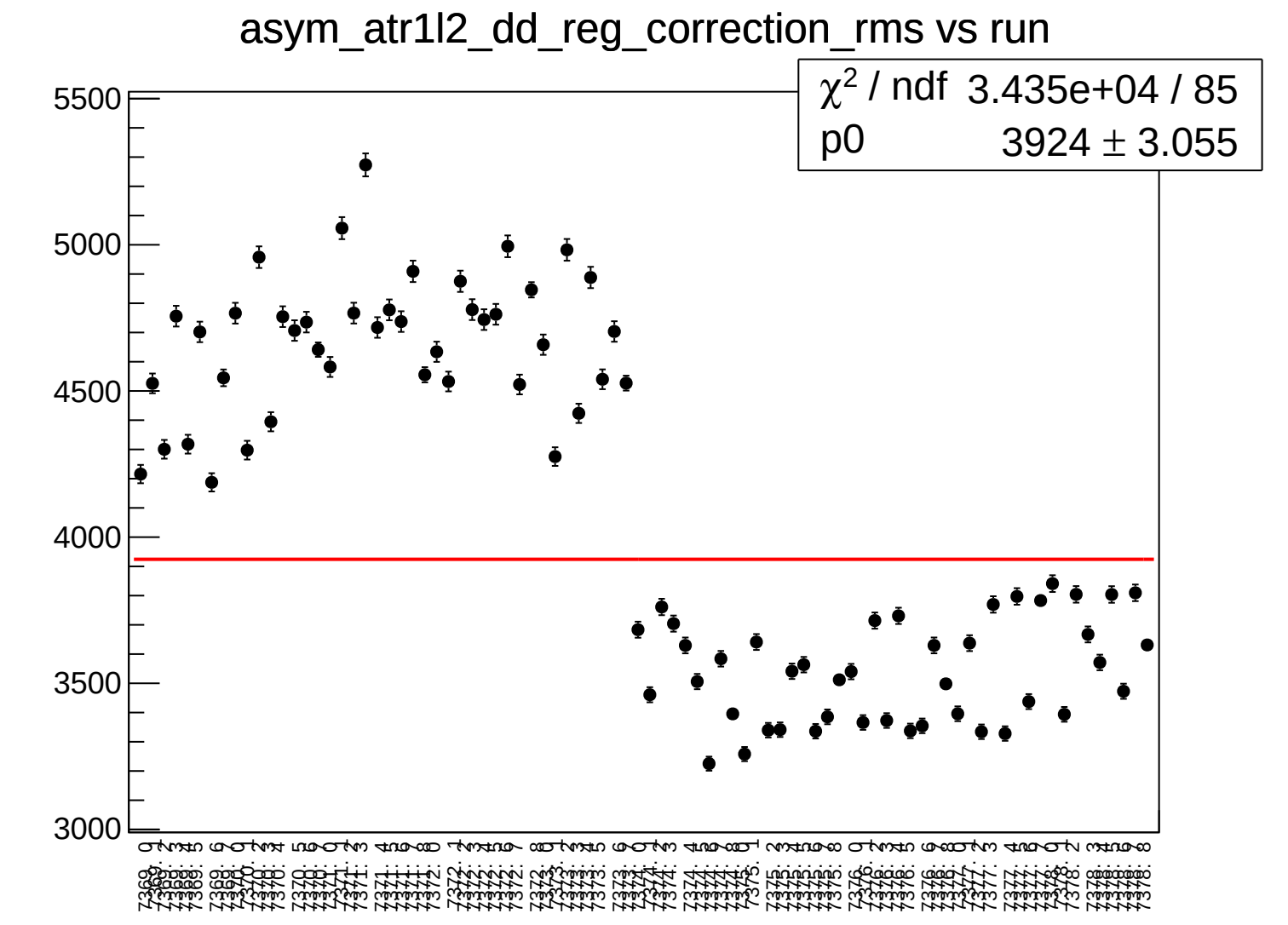

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 68.86 / 85
p0 −707.8 ± 1917
pull
Entries 86
Mean 20.24
Std Dev 40.09

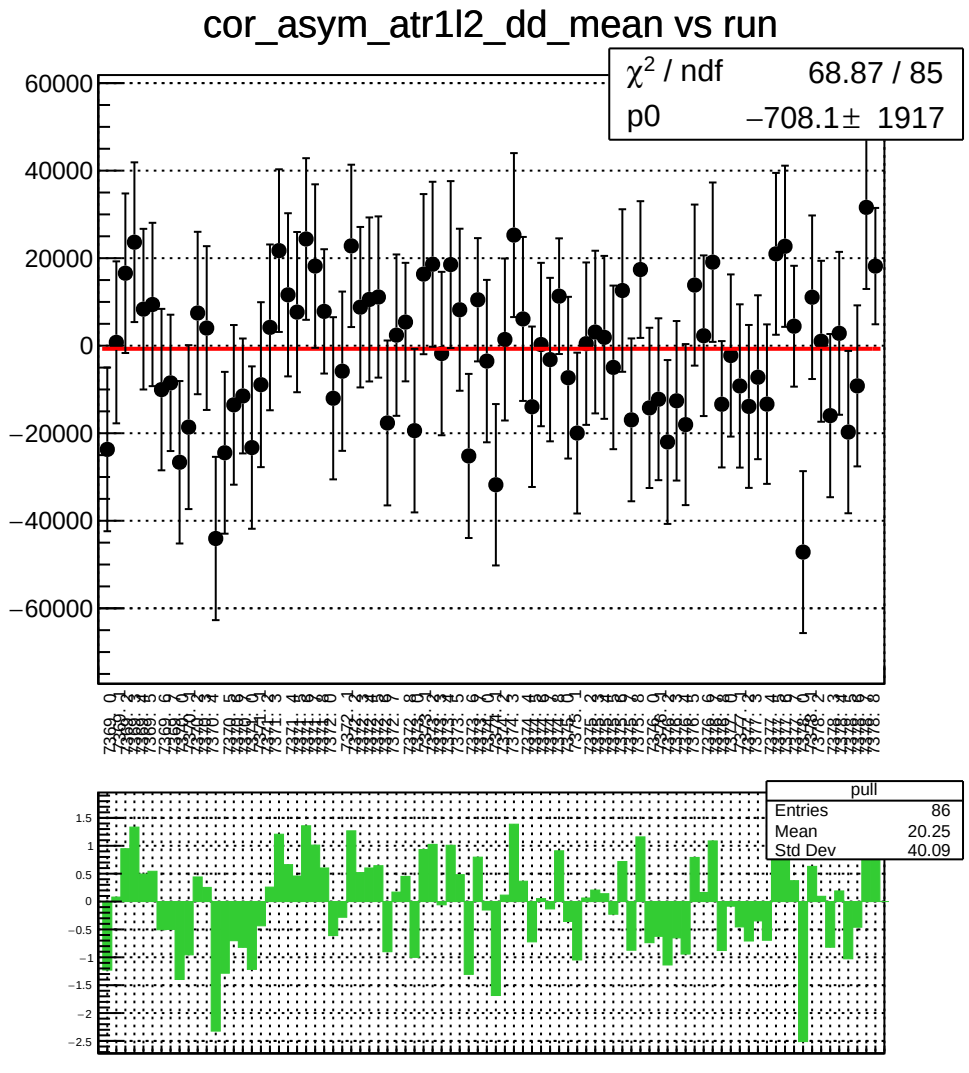

pull1D
Entries 86
Mean −0.01401
Std Dev 0.8947

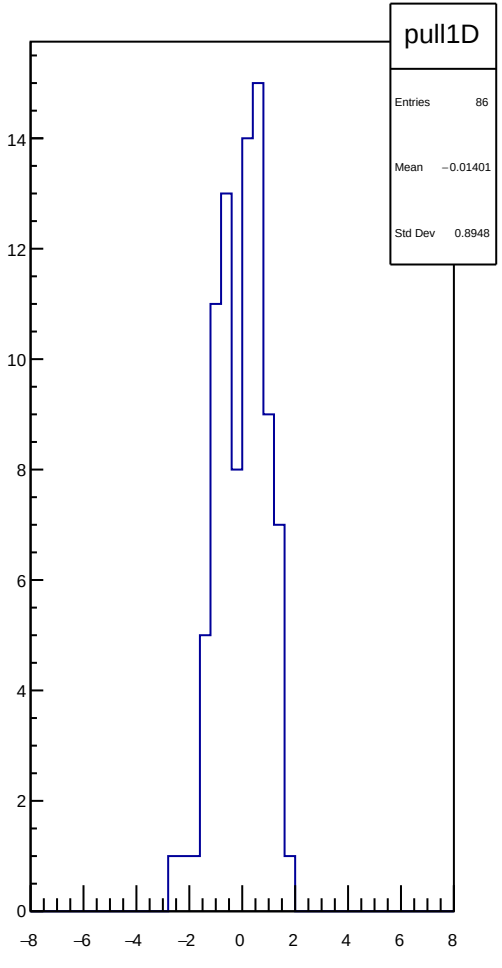

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 141.1 / 85
p0 1759 ± 1.356
1820
1800
1780
1760
1740
1720

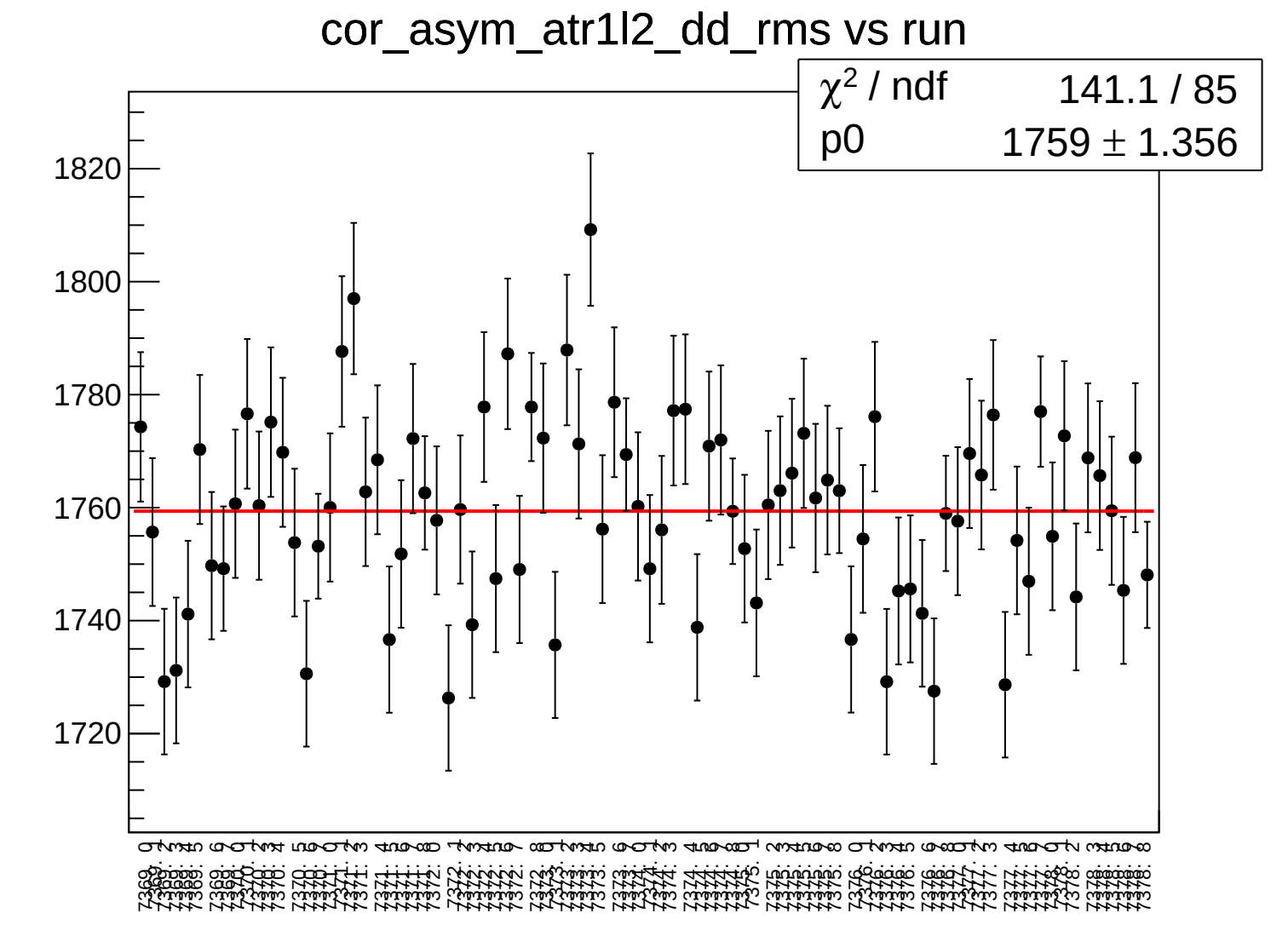

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 98.01 / 85
p0 5159 ± 4321
pull
Entries 86
Mean −175.2
Std Dev 0

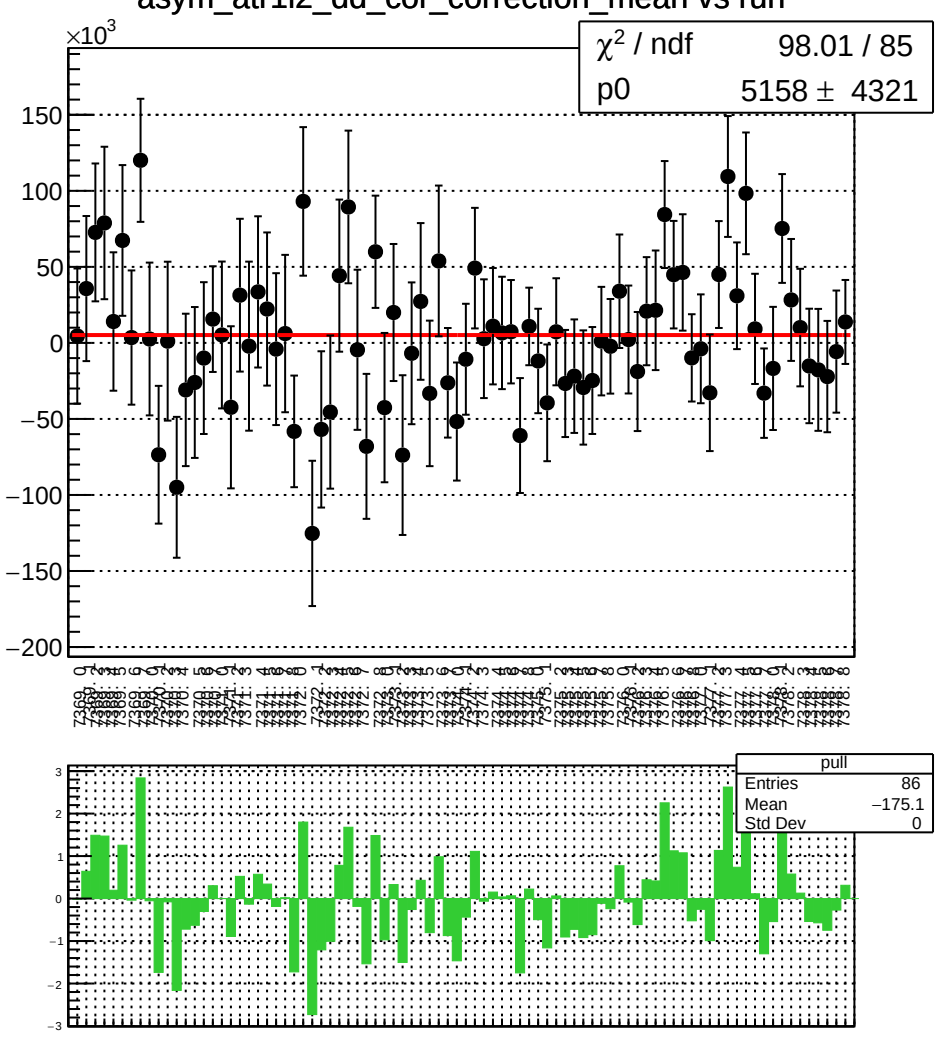

pull1D
Entries 86
Mean −0.005929
Std Dev 1.068

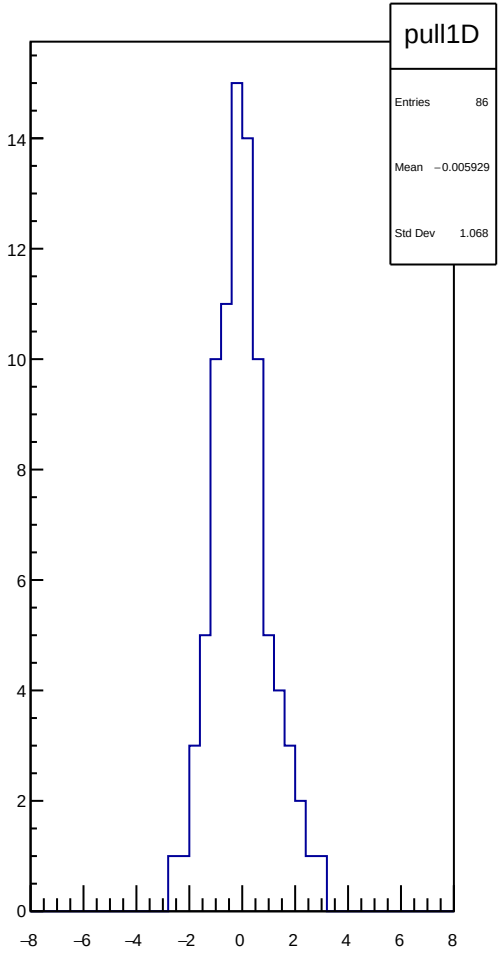

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3.435e+04 / 85
p0 3924 ± 3.055
5500
5000
4500
4000
3500
3000

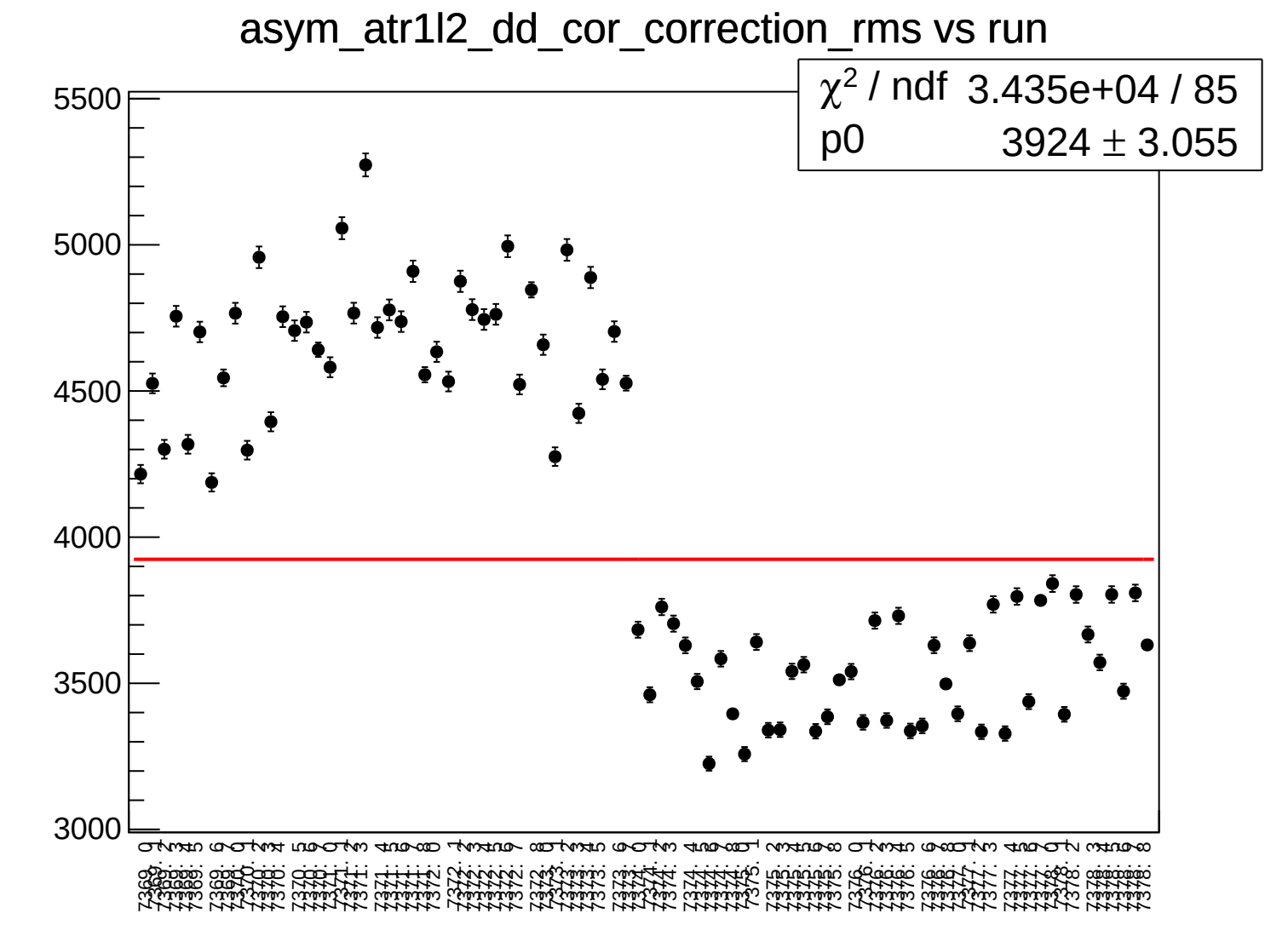

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 68.87 / 85
p0 −708.1± 1917
pull
Entries 86
Mean 20.25
Std Dev 40.09

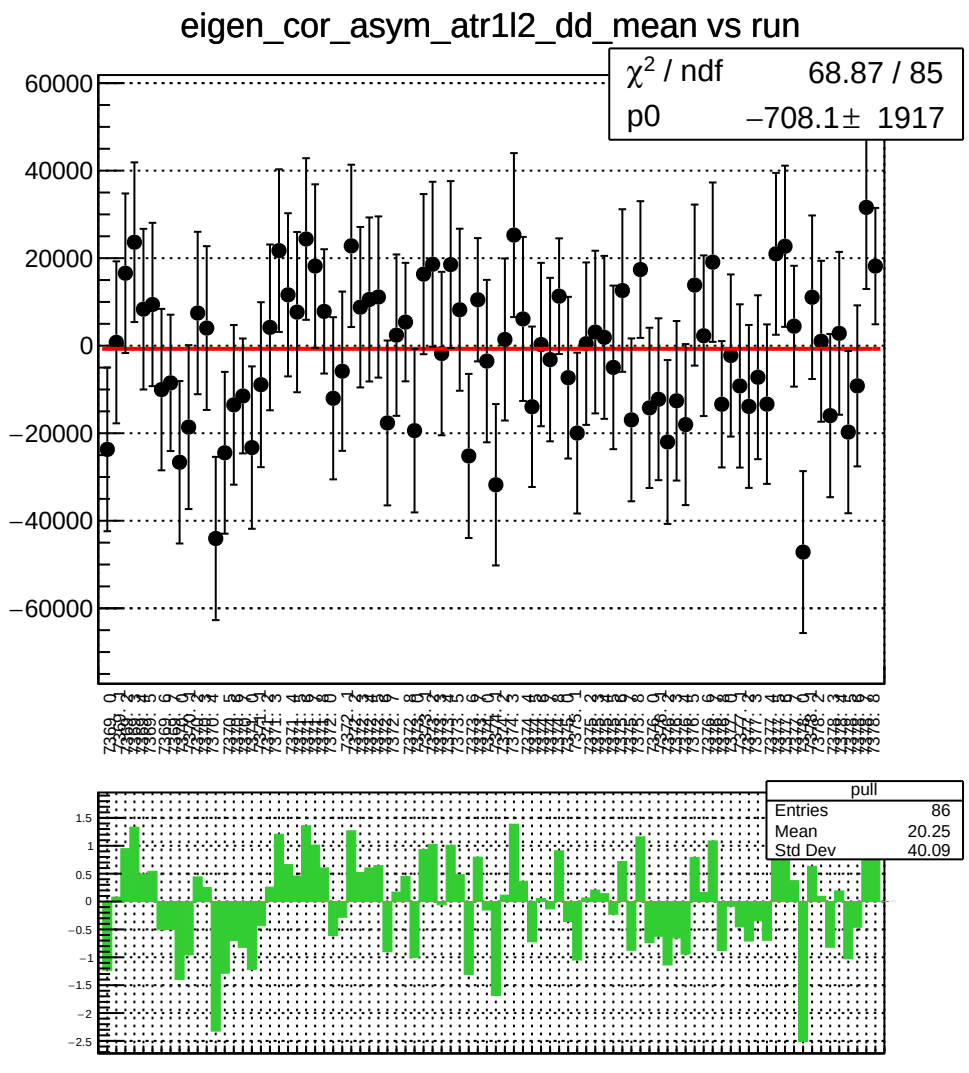

pull1D
Entries 86
Mean −0.01401
Std Dev 0.8948

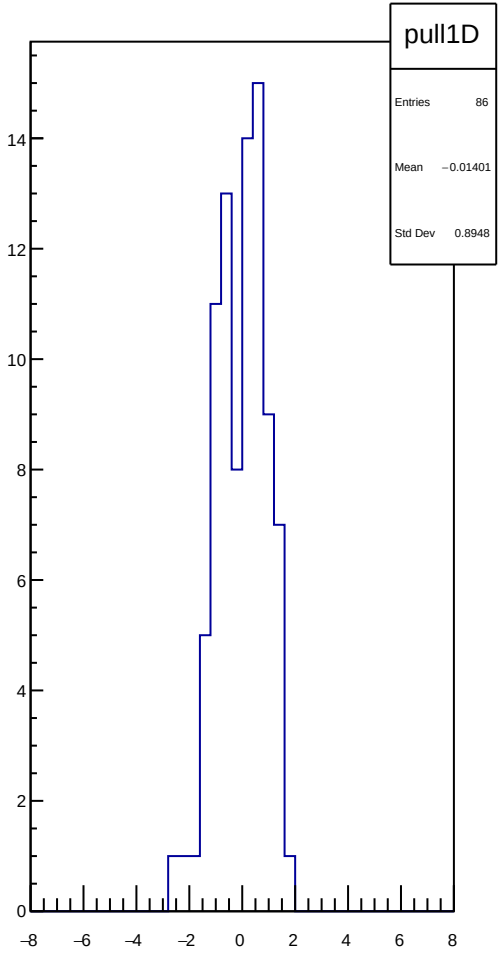

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 141.1 / 85
p0 1759 ± 1.356
1820
1800
1780
1760
1740
1720

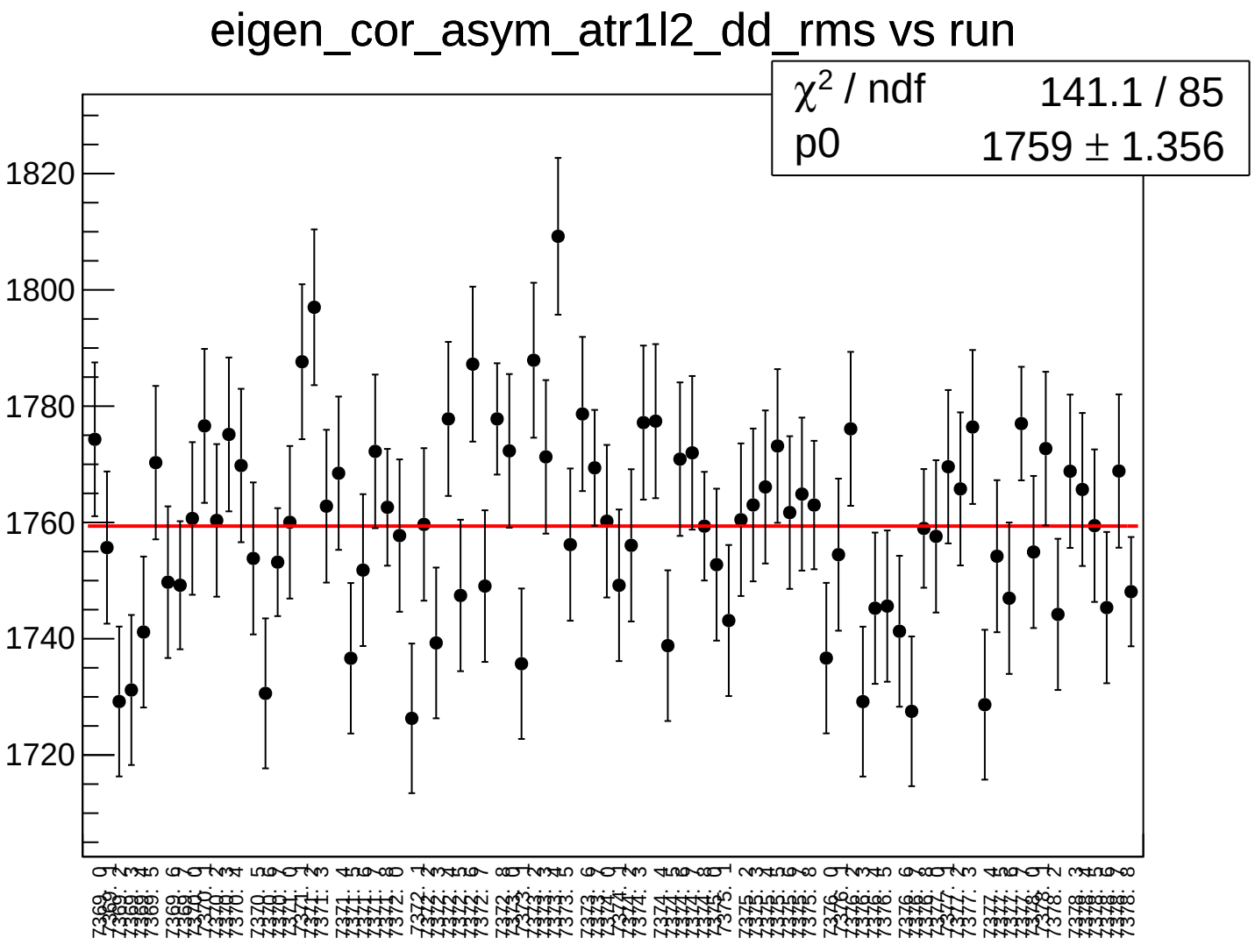

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.01 / 85
p0 5158 ± 4321
pull
Entries 86
Mean −175.1
Std Dev 0

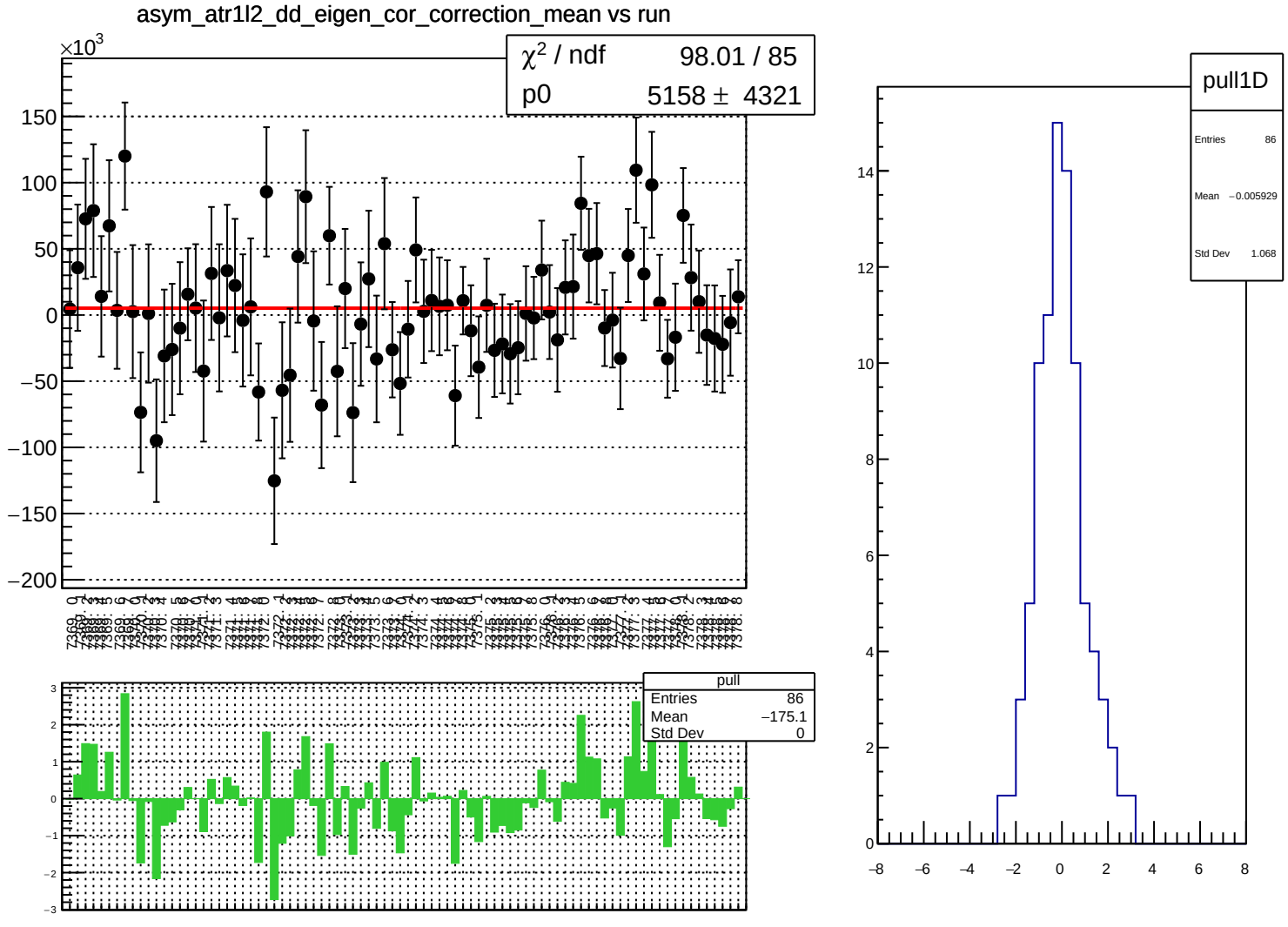

pull1D
Entries 86
Mean −0.005929
Std Dev 1.068

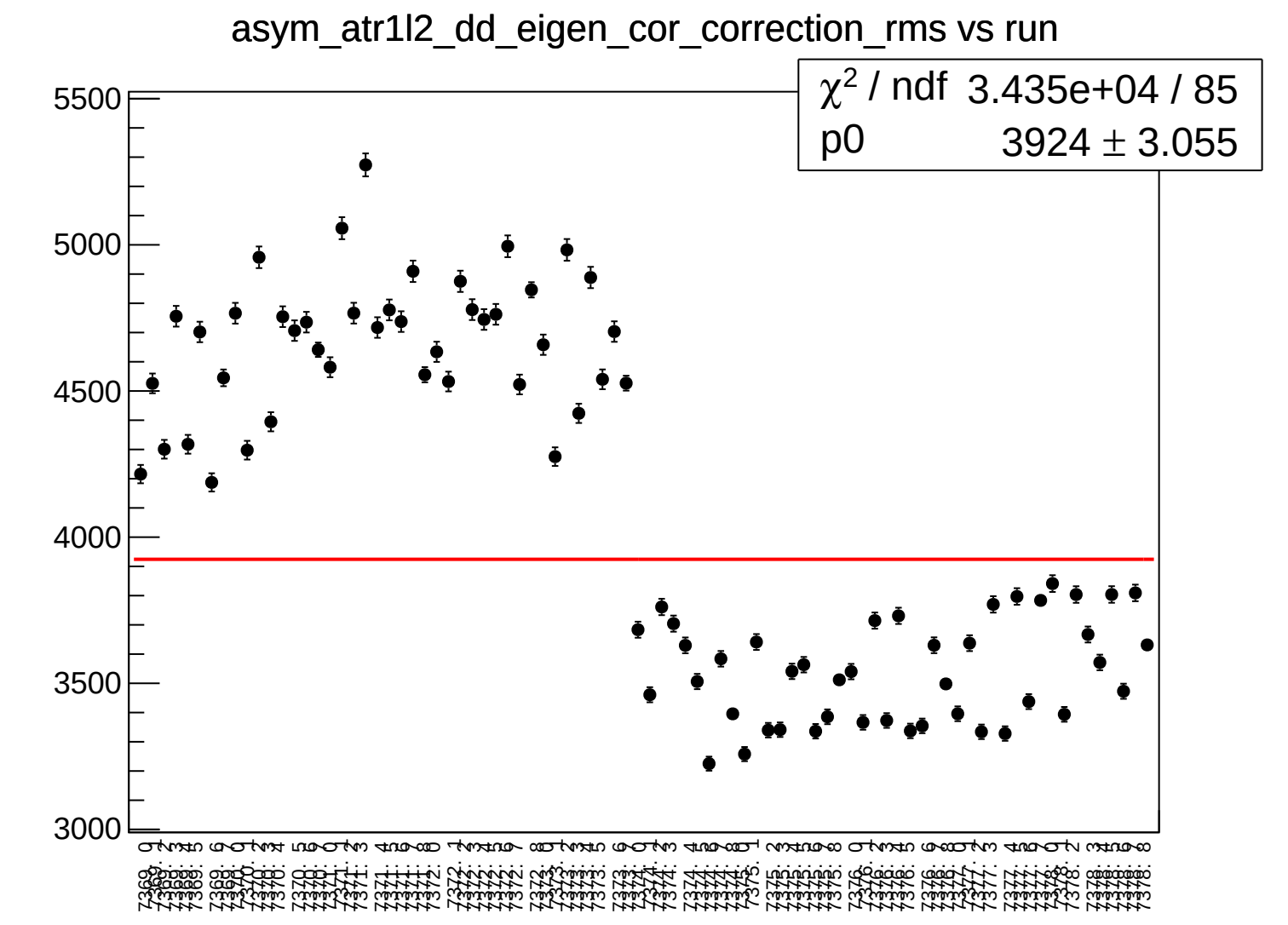

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 3.435e+04 / 85
p0 3924 ± 3.055
5500
5000
4500
4000
3500
3000

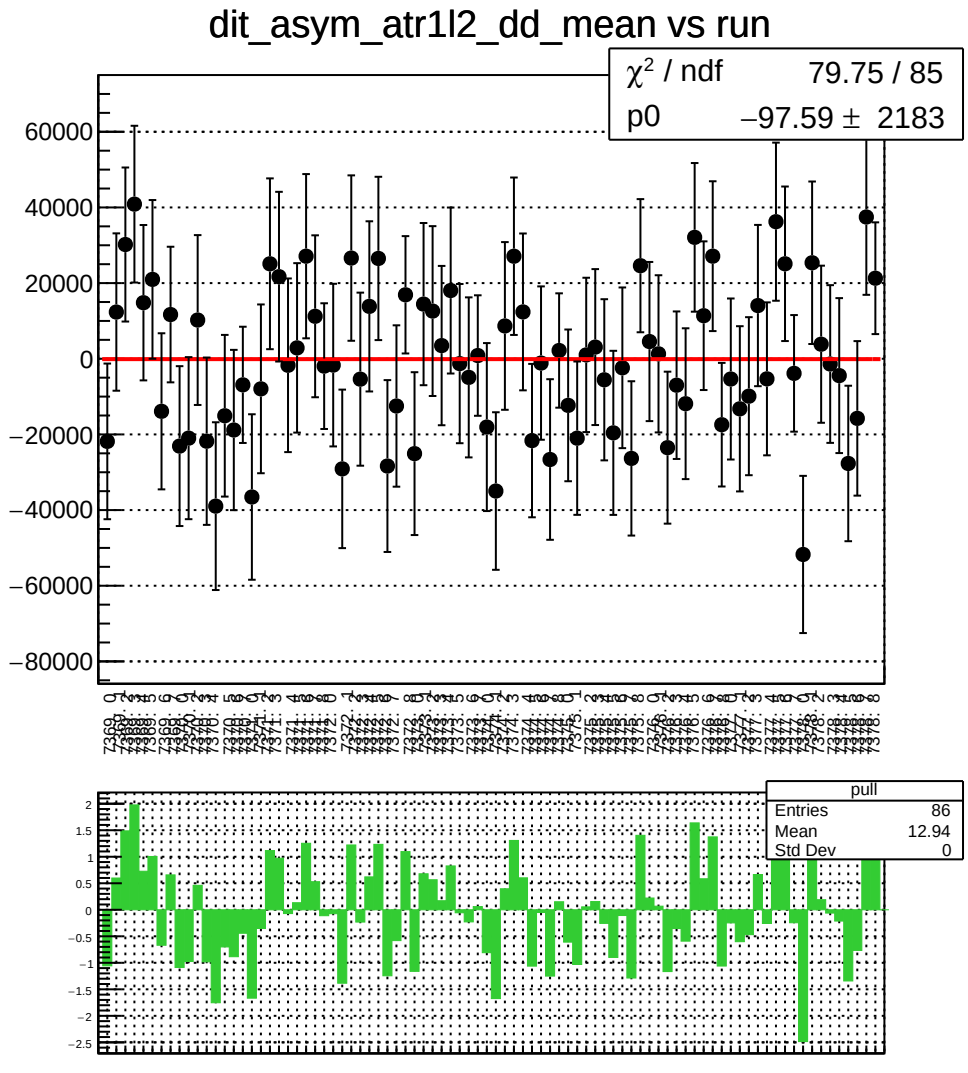

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 68.87 / 85
p0 −708.1± 1917
pull
Entries 86
Mean 20.25
Std Dev 40.09

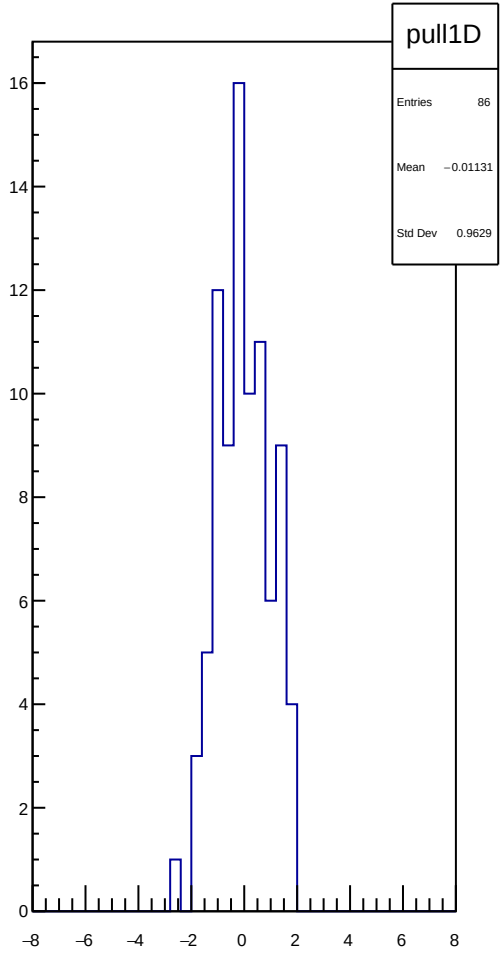

pull1D
Entries 86
Mean −0.01401
Std Dev 0.8948

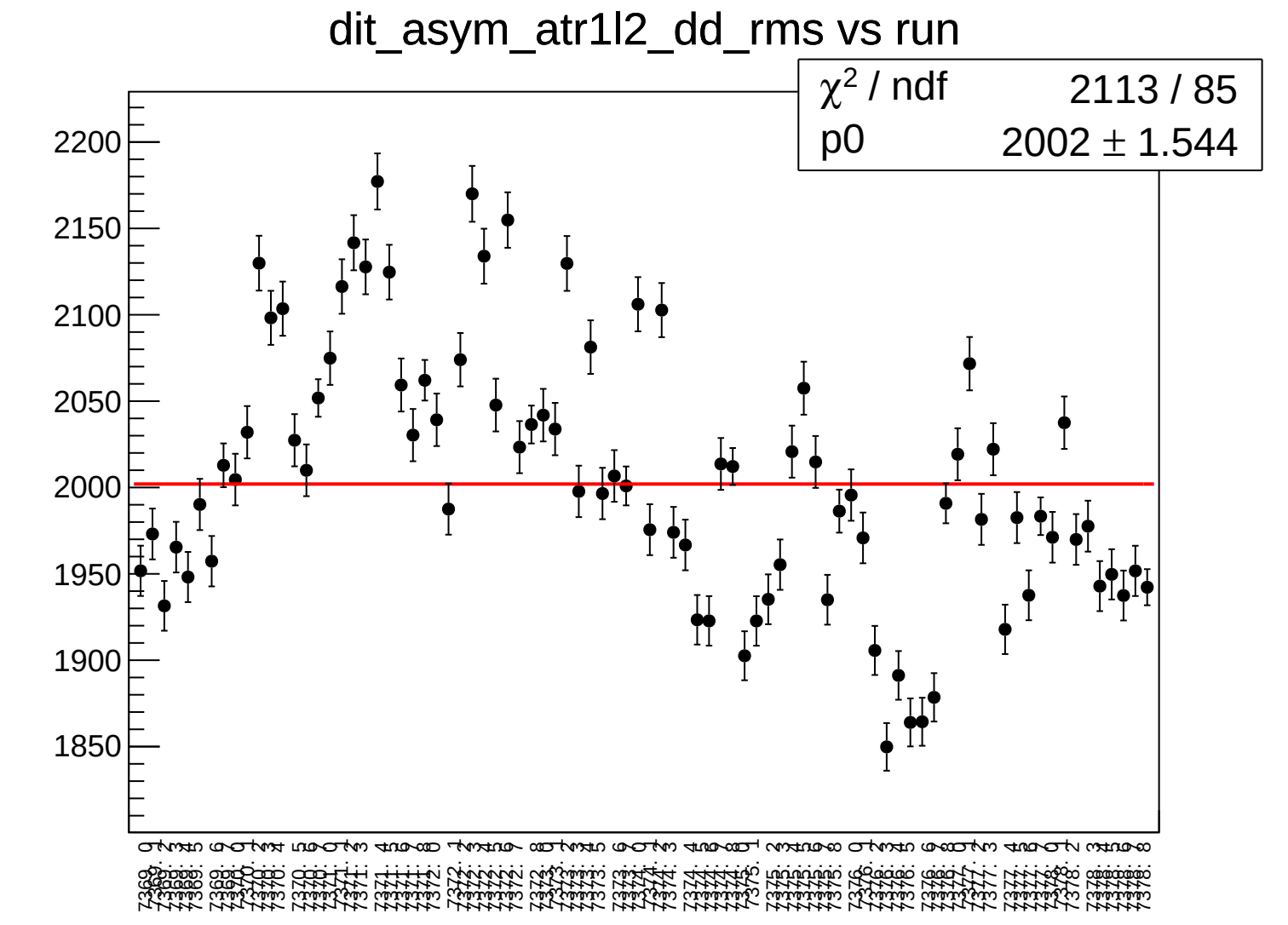

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 141.1 / 85
p0 1759 ± 1.356
1820
1800
1780
1760
1740
1720

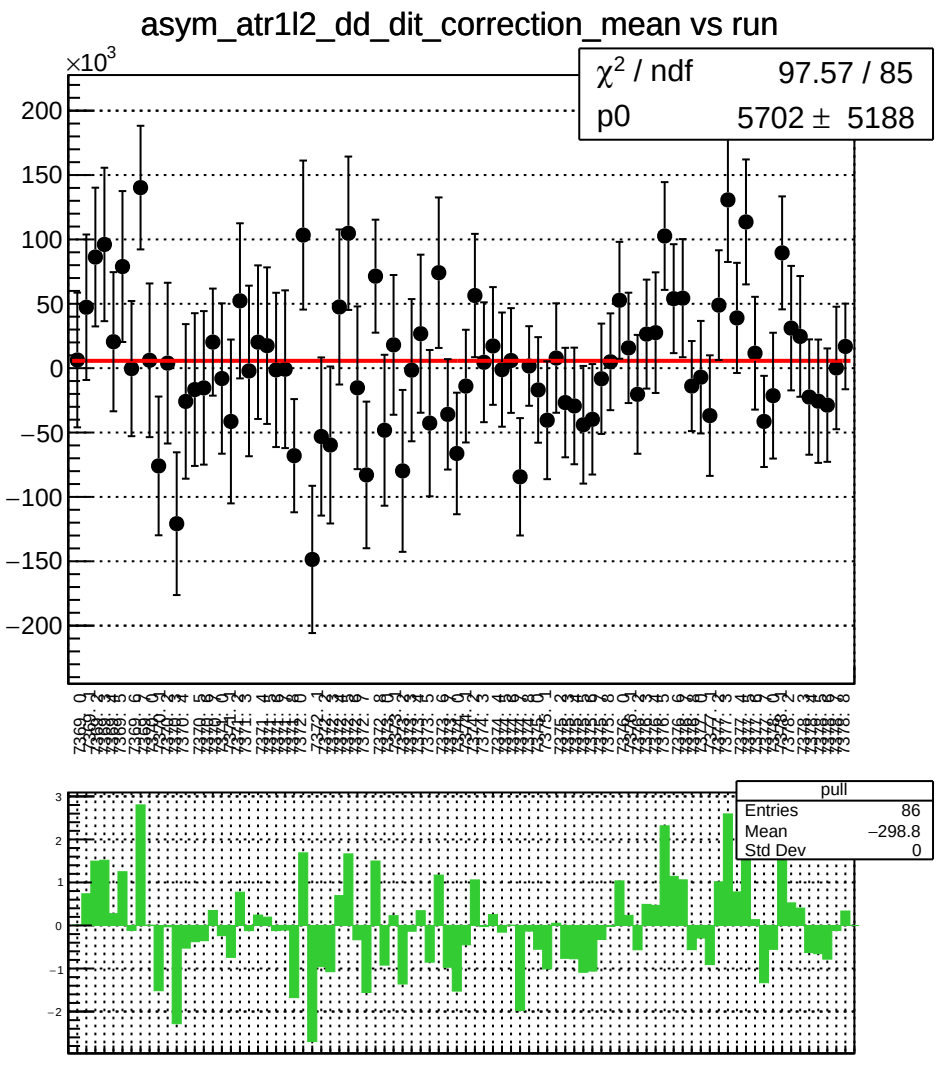

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.01 / 85
p0 5158 ± 4321
×10³
pull
Entries 86
Mean −175.1
Std Dev 0
pull1D
Entries 86
Mean −0.005929
Std Dev 1.068

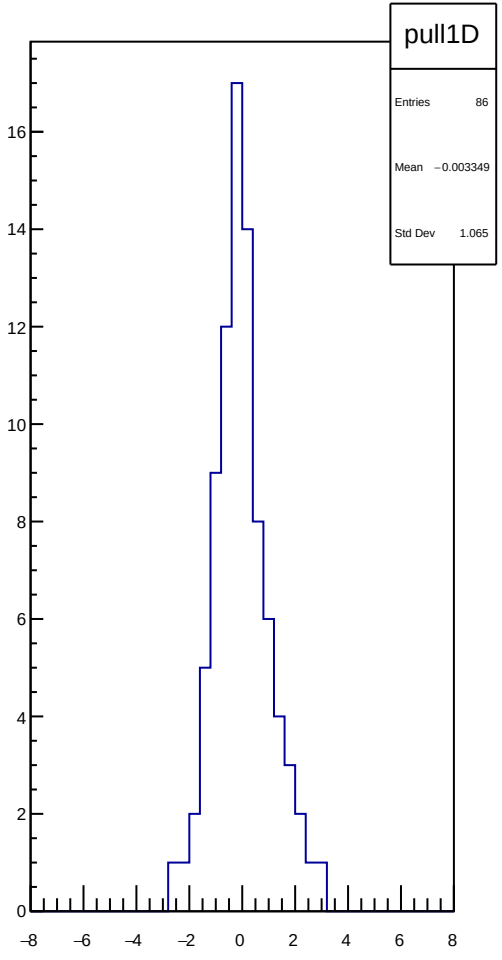

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.435e+04 / 85
p0 3924 ± 3.055
5500
5000
4500
4000
3500
3000

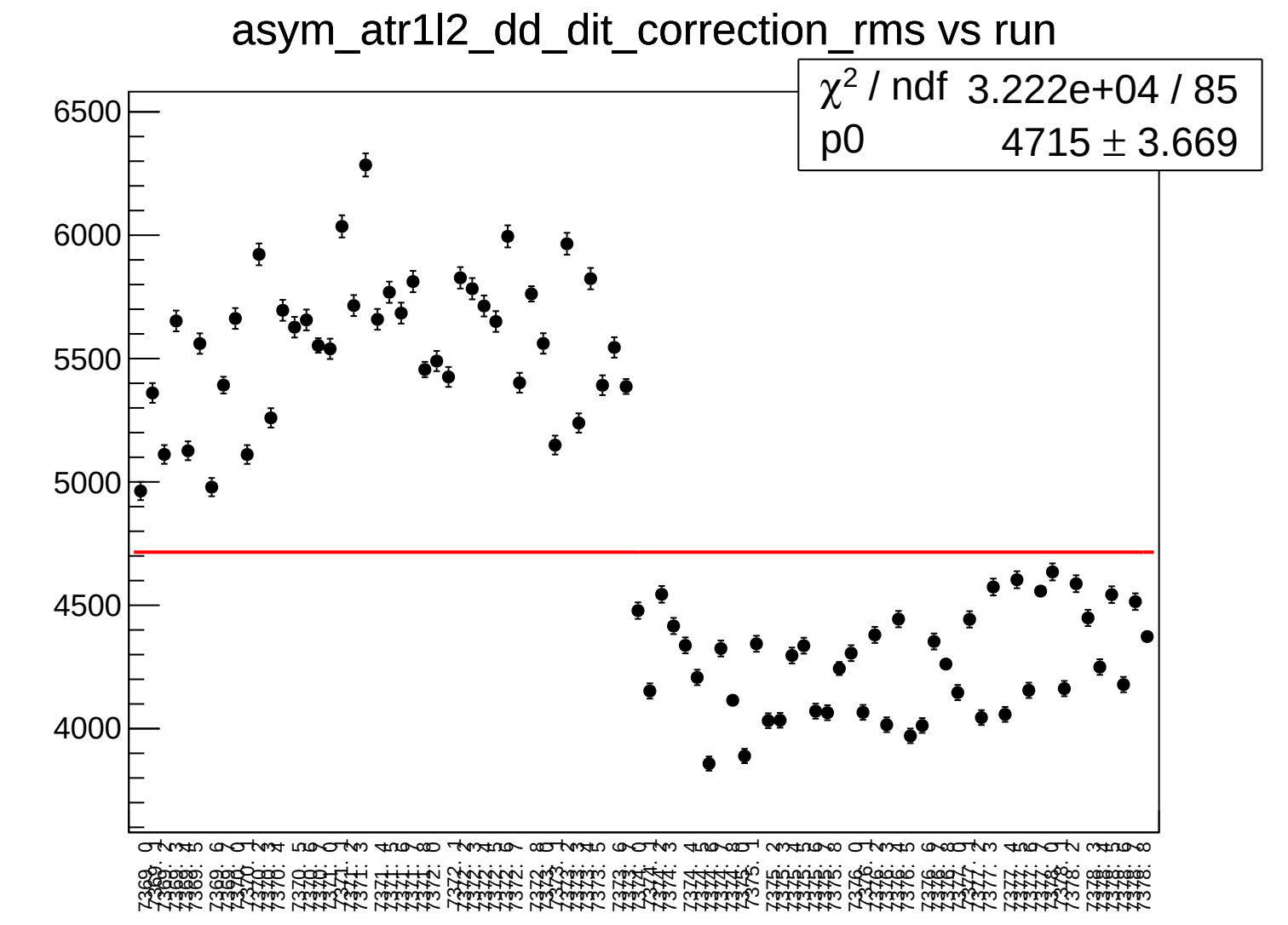

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 79.75 / 85
p0 −97.59 ± 2183
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 12.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

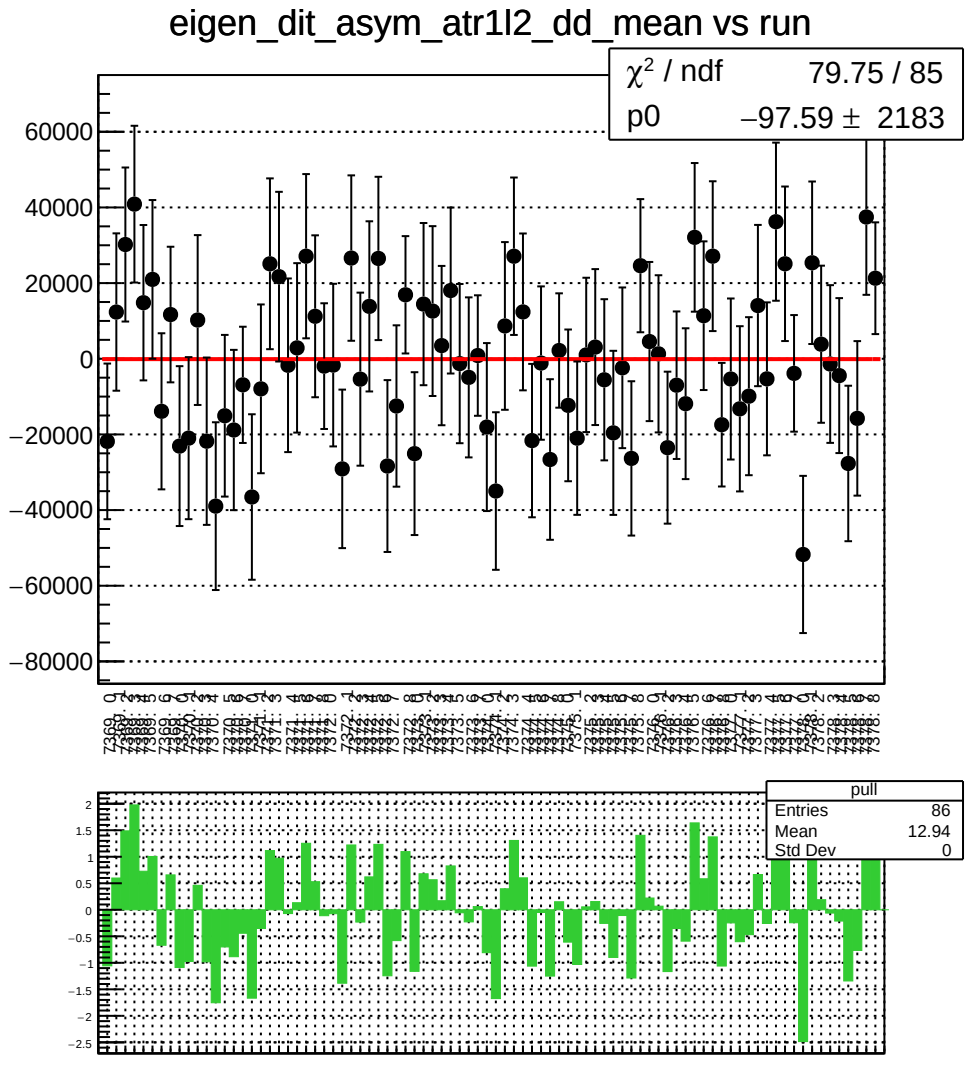

pull1D
Entries 86
Mean −0.01131
Std Dev 0.9629
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

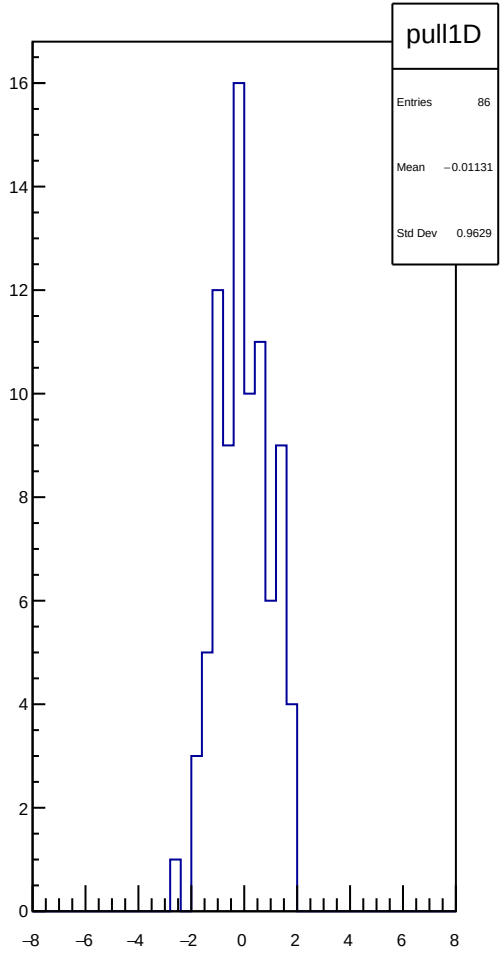

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 2113 / 85
p0 2002 ± 1.544
2200
2150
2100
2050
2000
1950
1900
1850

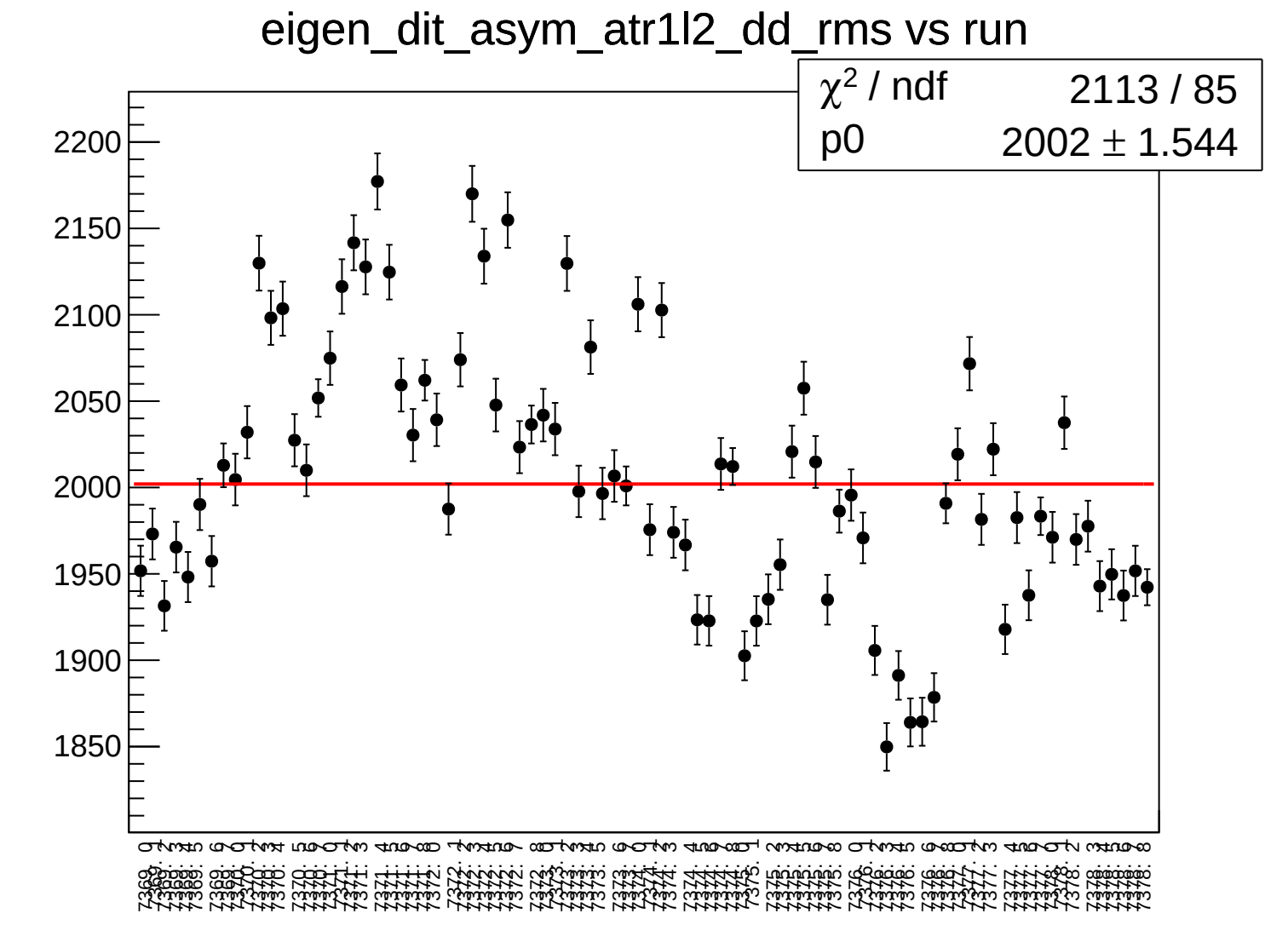

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.57 / 85
p0 5702 ± 5188
pull
Entries 86
Mean −298.8
Std Dev 0

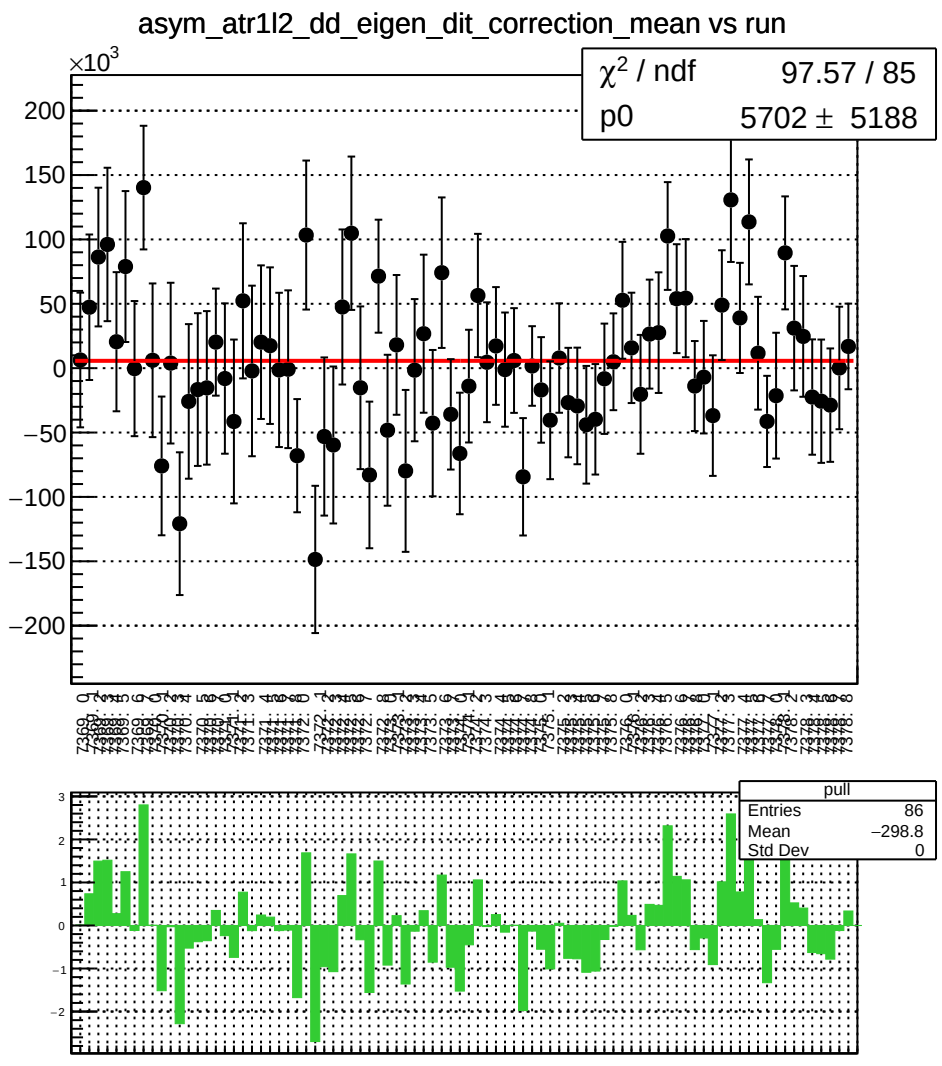

pull1D
Entries 86
Mean −0.003349
Std Dev 1.065

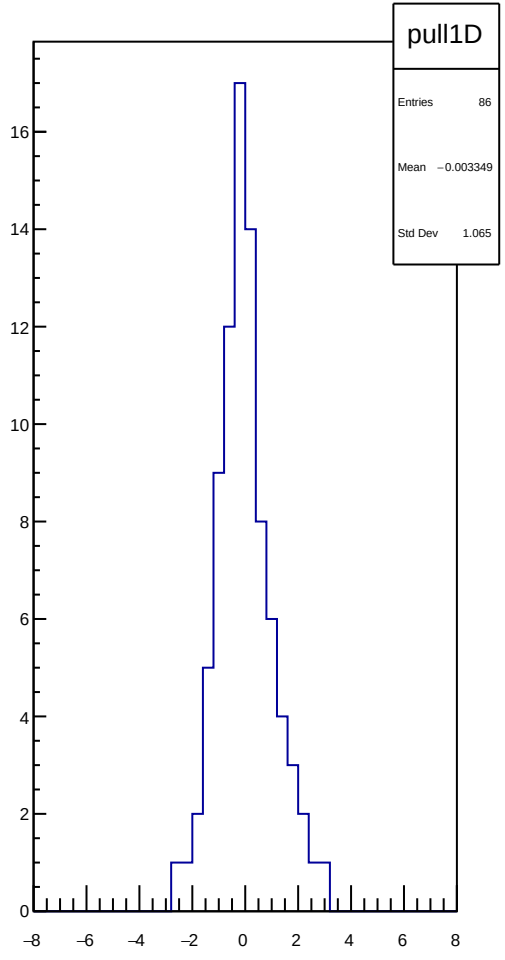

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 3.222e+04 / 85
p0 4715 ± 3.669
6500
6000
5500
5000
4500
4000

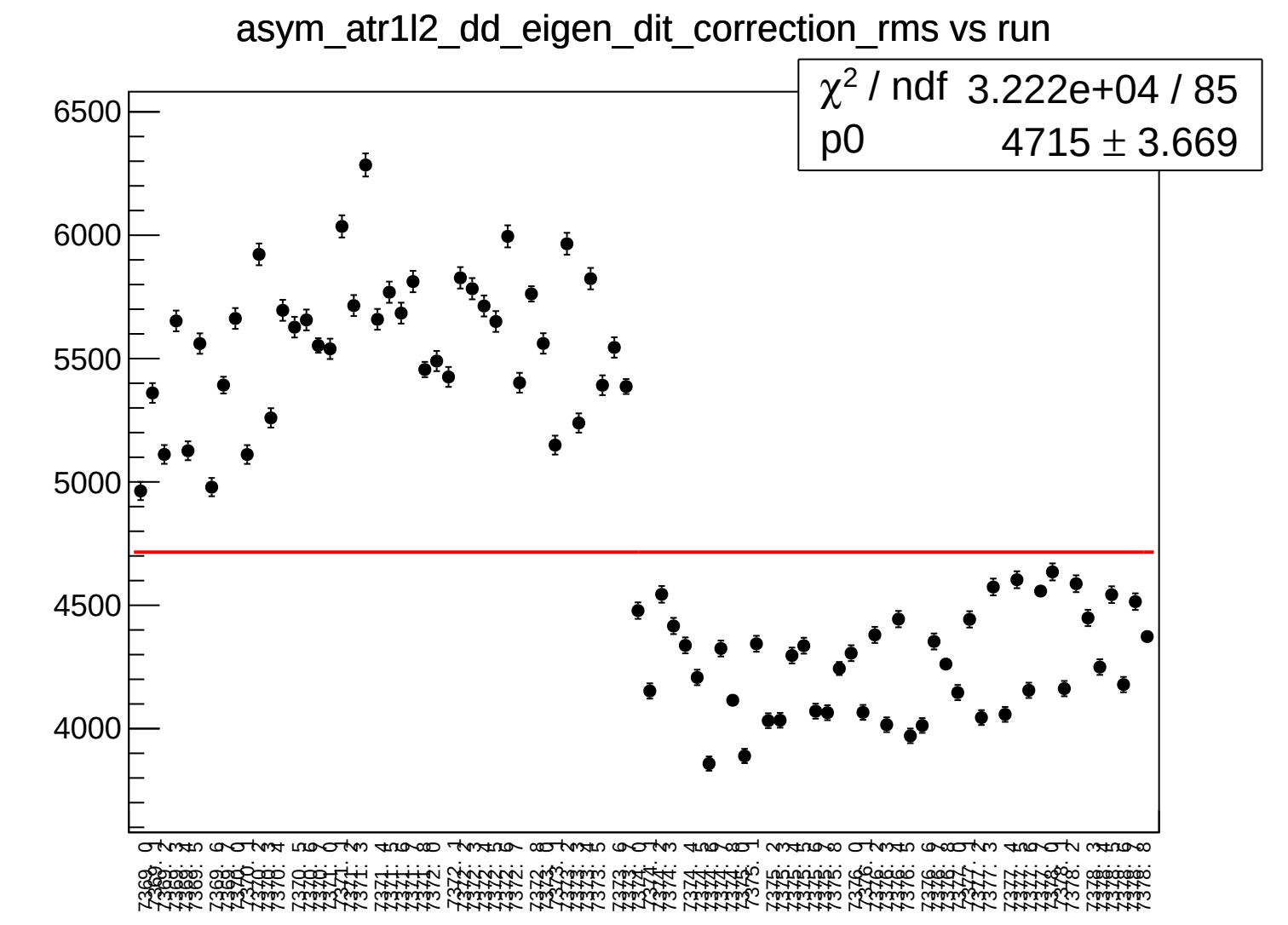

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 79.75 / 85
p0 −97.59 ± 2183
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 12.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

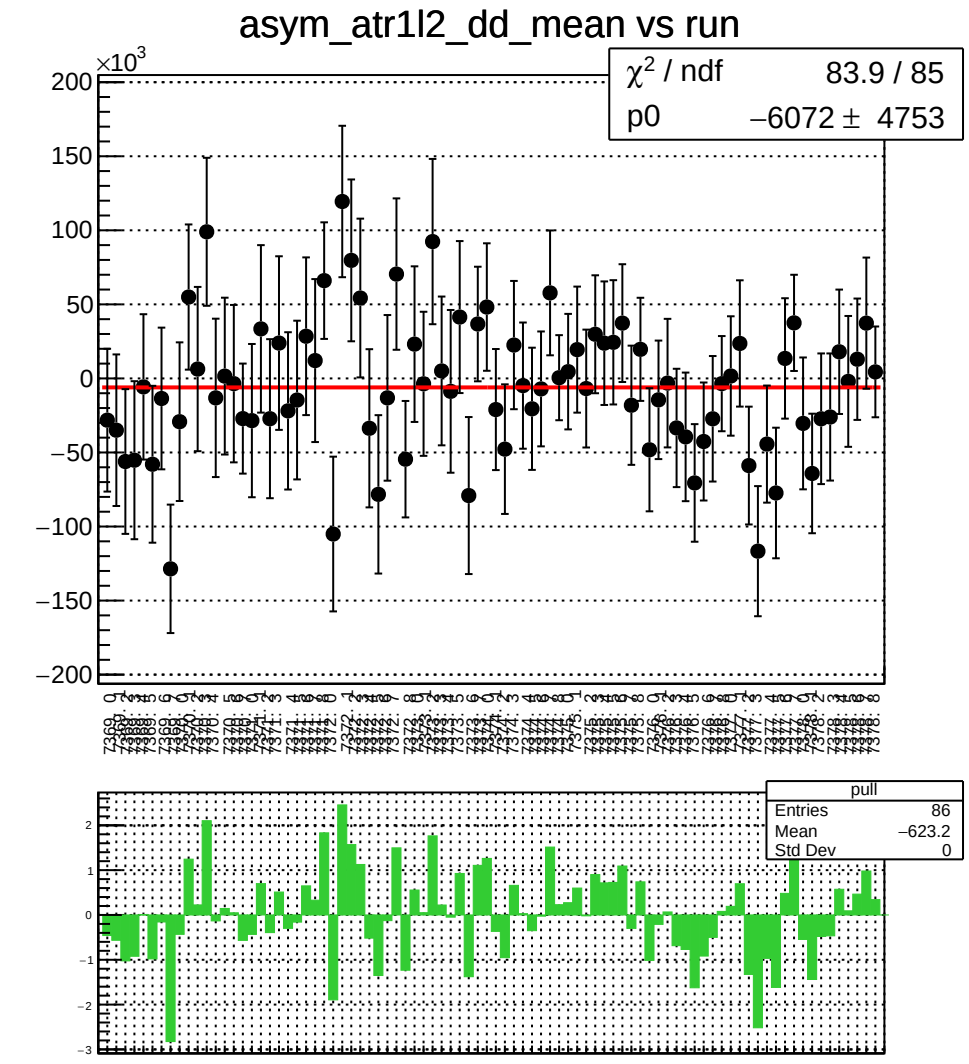

pull1D
Entries 86
Mean −0.01131
Std Dev 0.9629
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

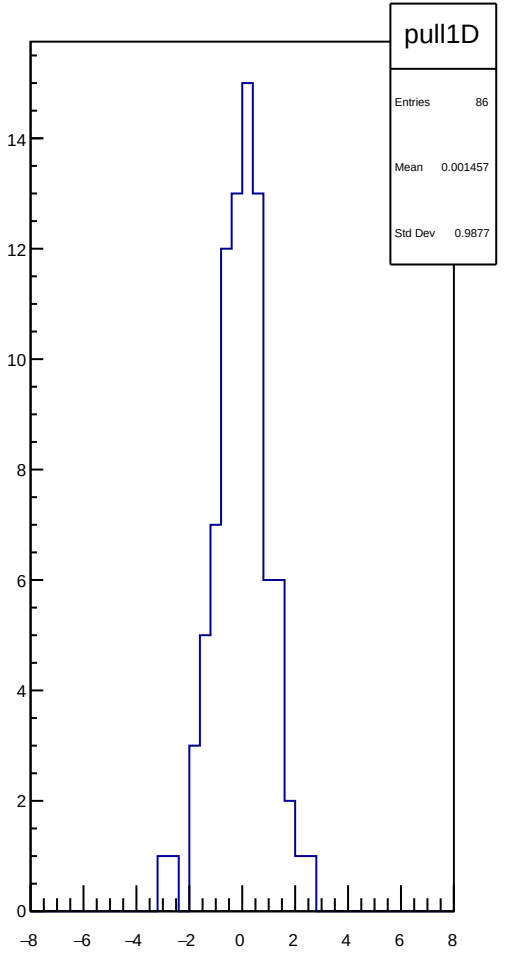

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 2113 / 85
p0 2002 ± 1.544
2200
2150
2100
2050
2000
1950
1900
1850

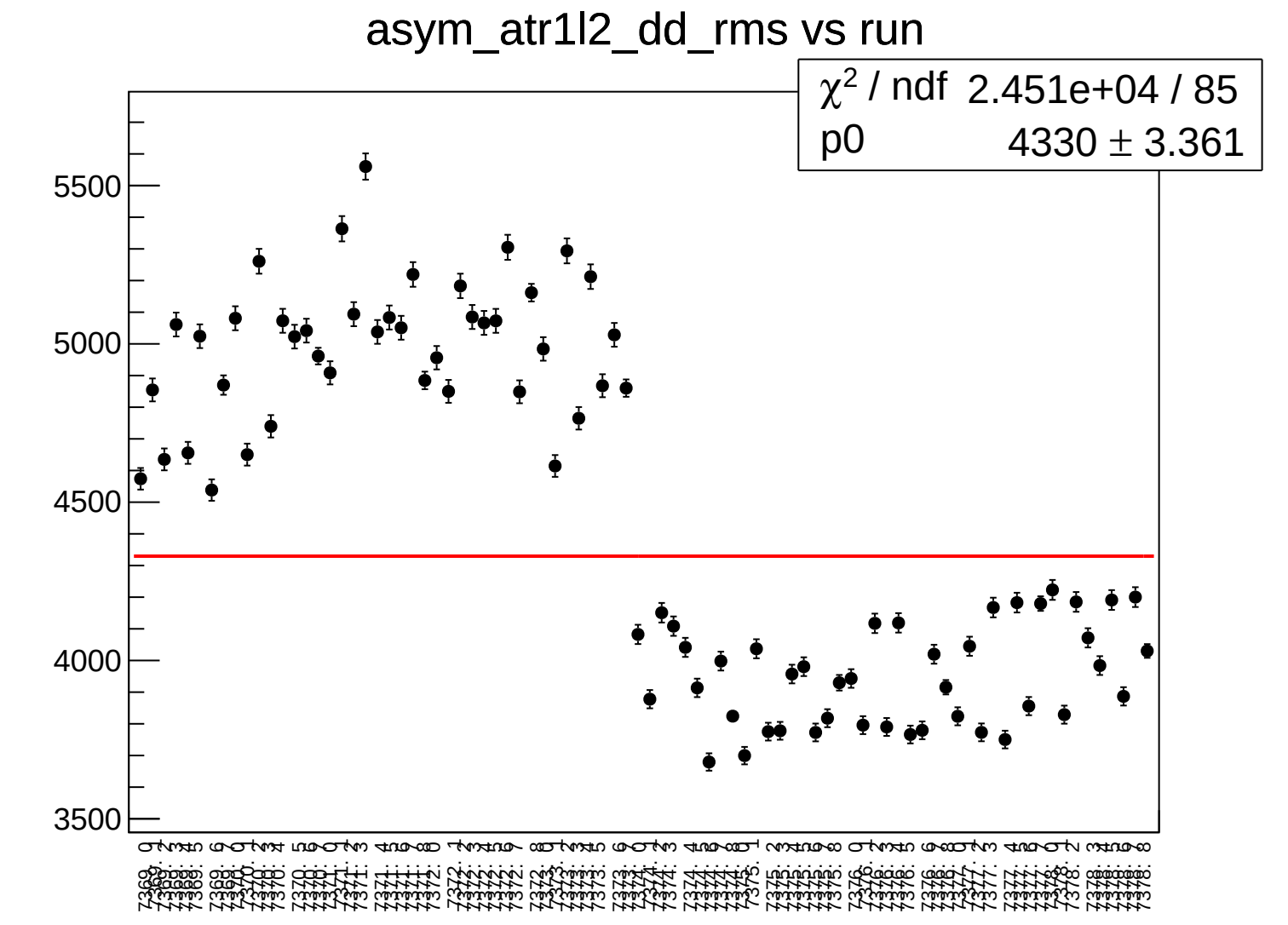

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.57 / 85
p0 5702 ± 5188
pull
Entries 86
Mean −298.8
Std Dev 0

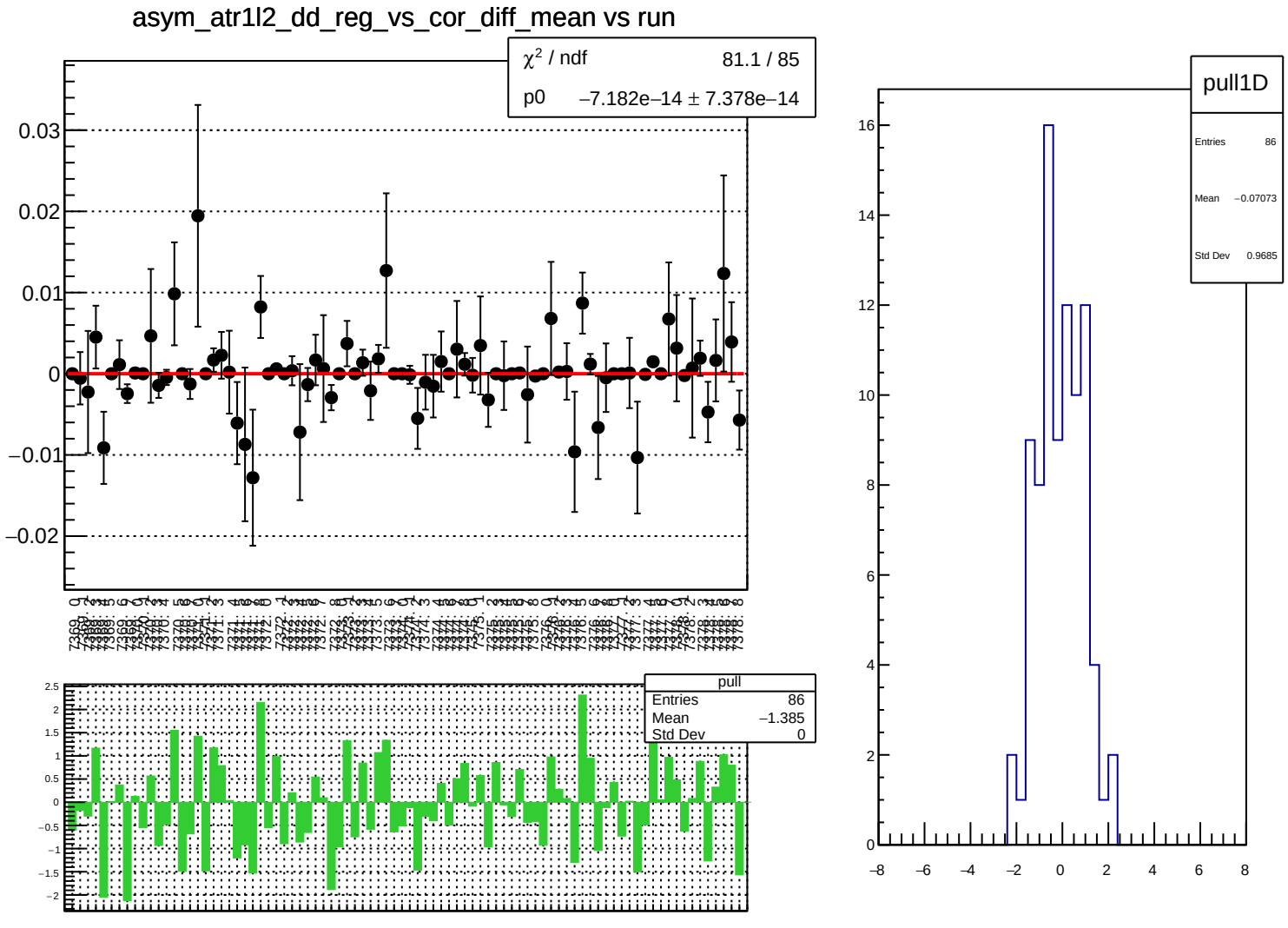

pull1D
Entries 86
Mean −0.003349
Std Dev 1.065

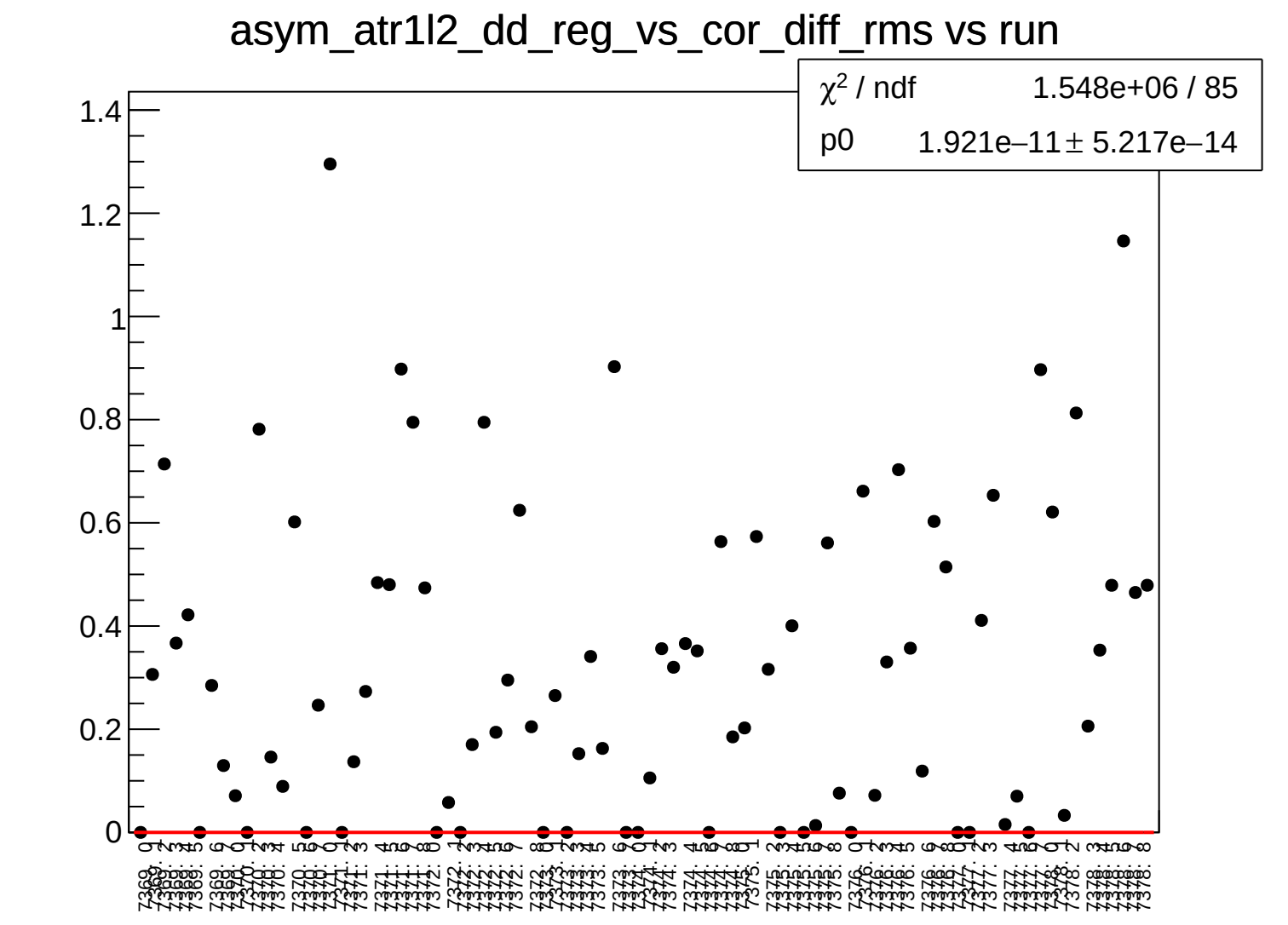

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.222e+04 / 85
p0 4715 ± 3.669
6500
6000
5500
5000
4500
4000

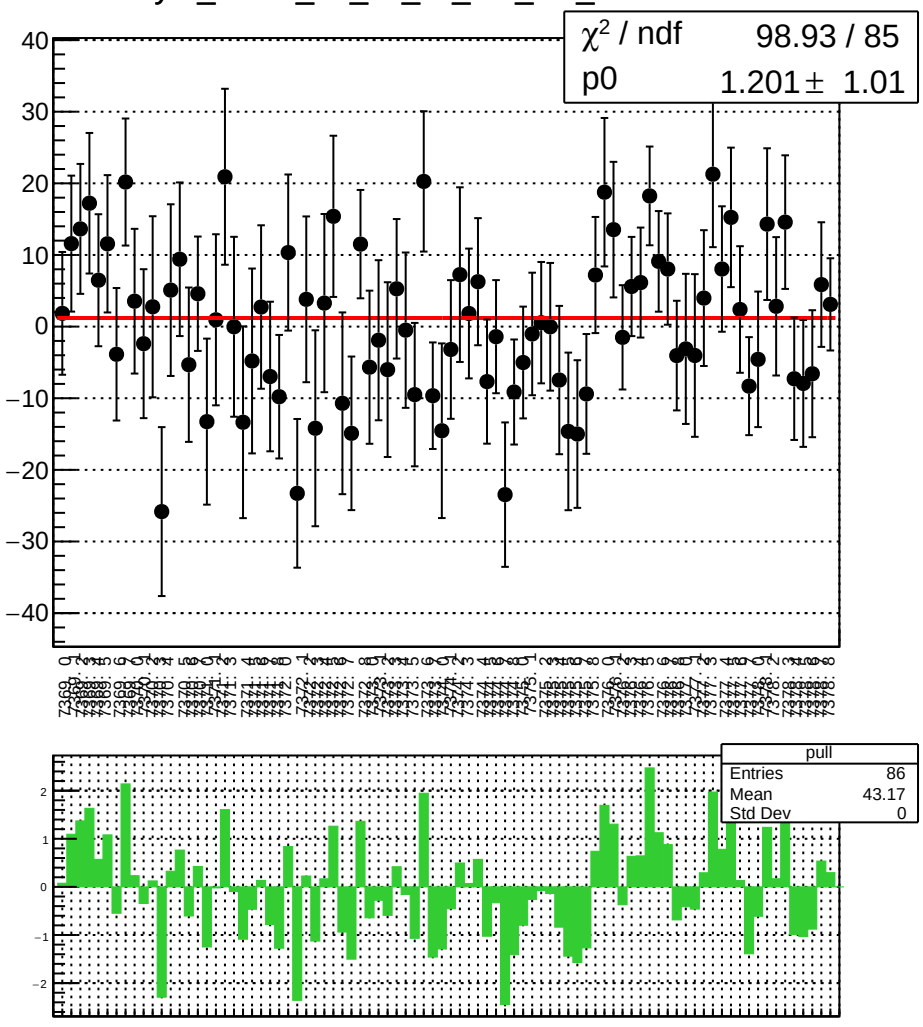

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 83.9 / 85
p0 −6072 ± 4753
pull
Entries 86
Mean −623.2
Std Dev 0

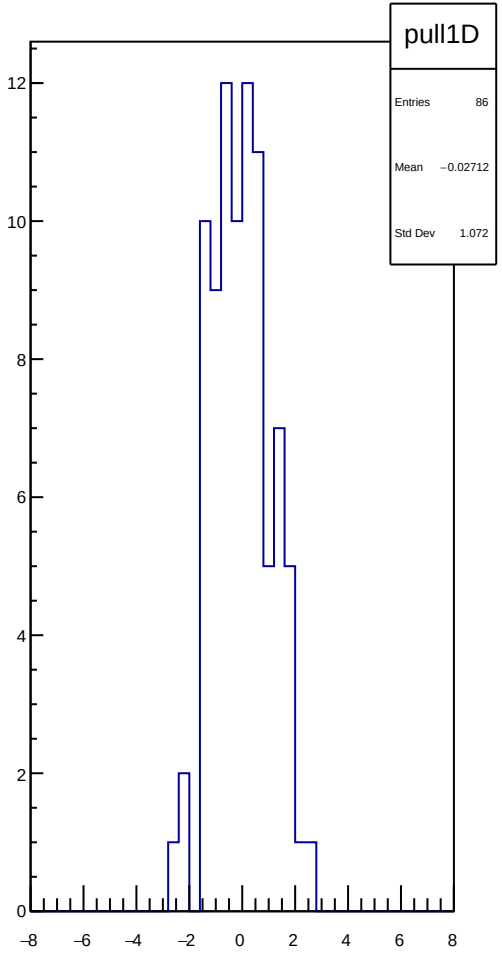

pull1D
Entries 86
Mean 0.001457
Std Dev 0.9877

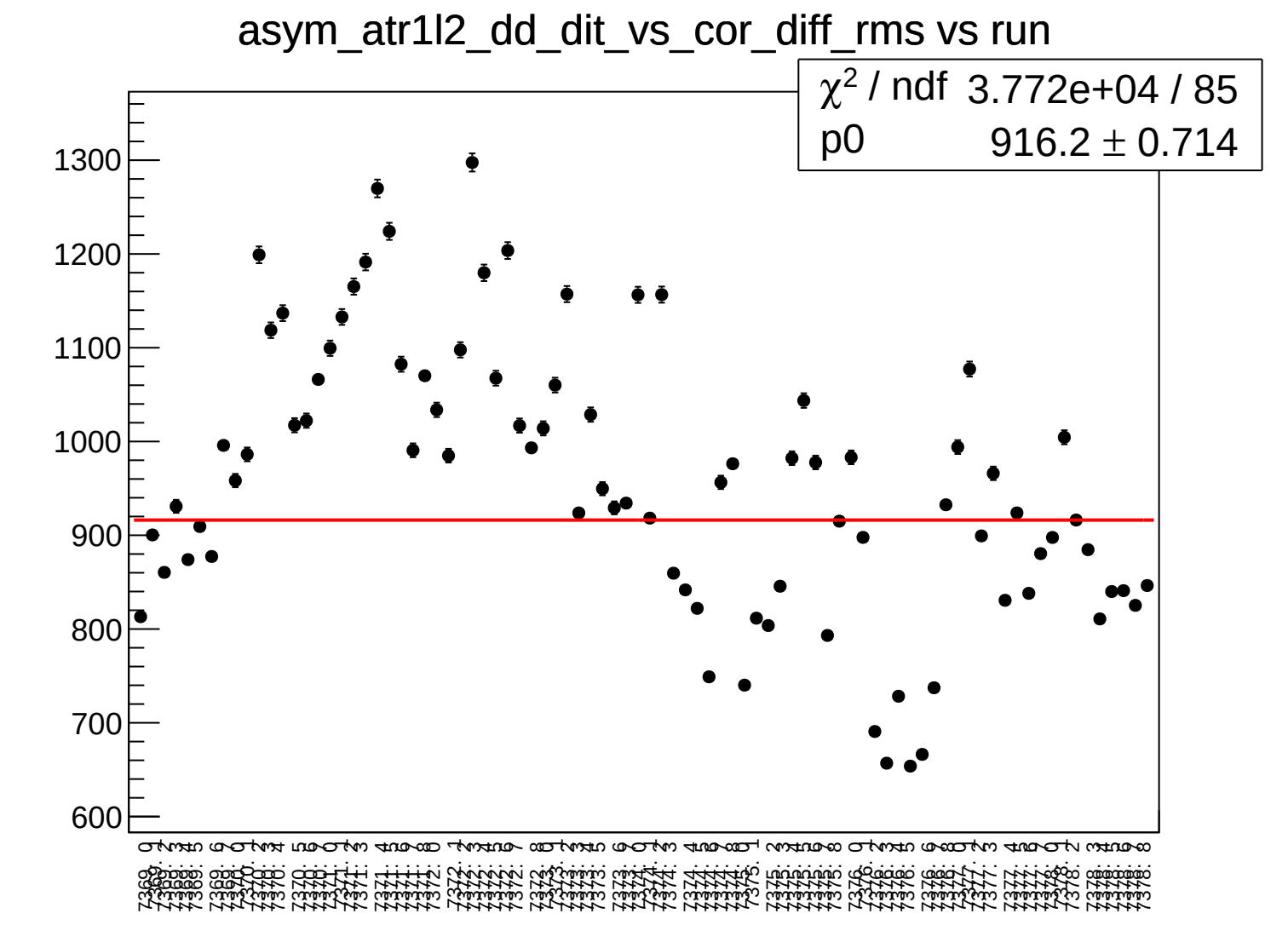

asym_atr1l2_dd_rms vs run
χ^2 / ndf 2.451e+04 / 85
p0 4330 ± 3.361
5500
5000
4500
4000
3500

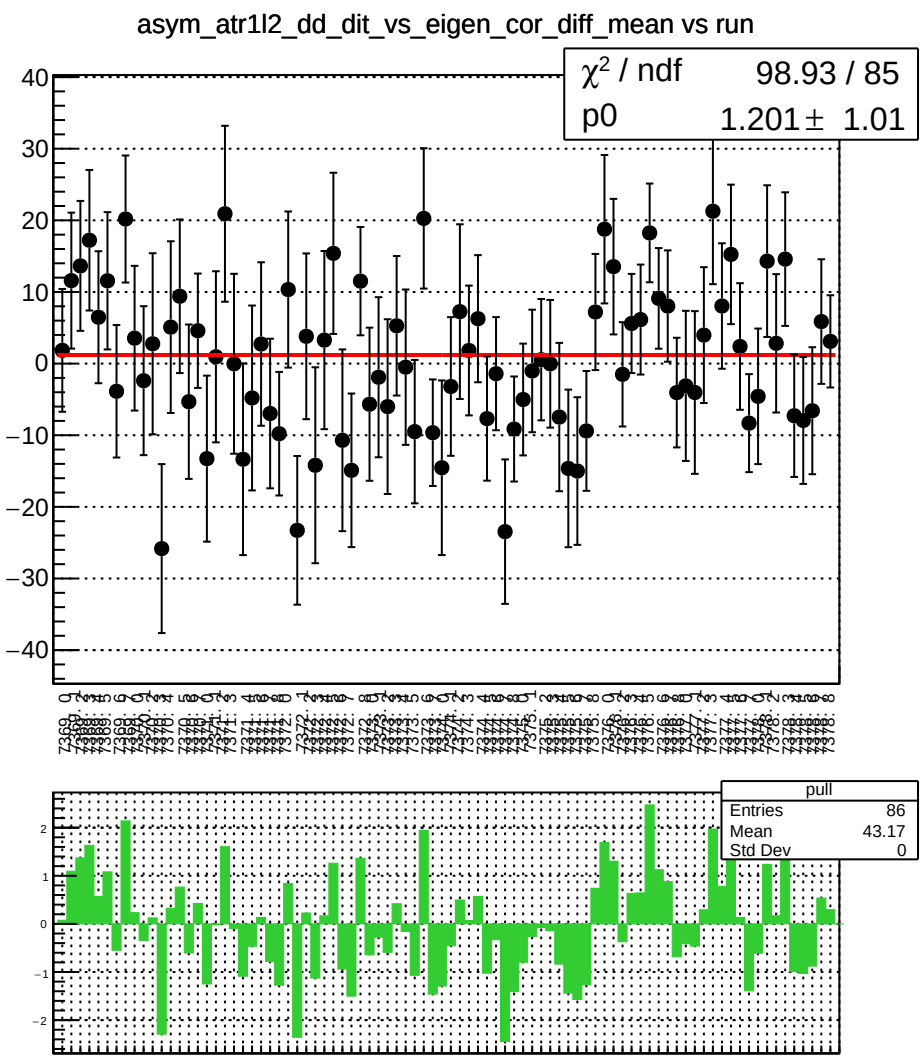

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.1 / 85
p0 −7.182e−14 ± 7.378e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean −1.385
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.07073
Std Dev 0.9685
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

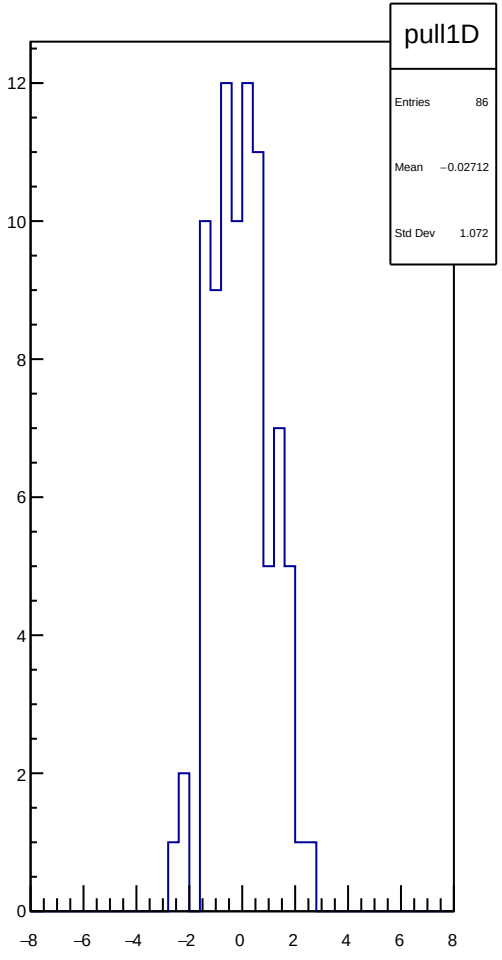

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.548e+06 / 85
p0 1.921e−11 ± 5.217e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

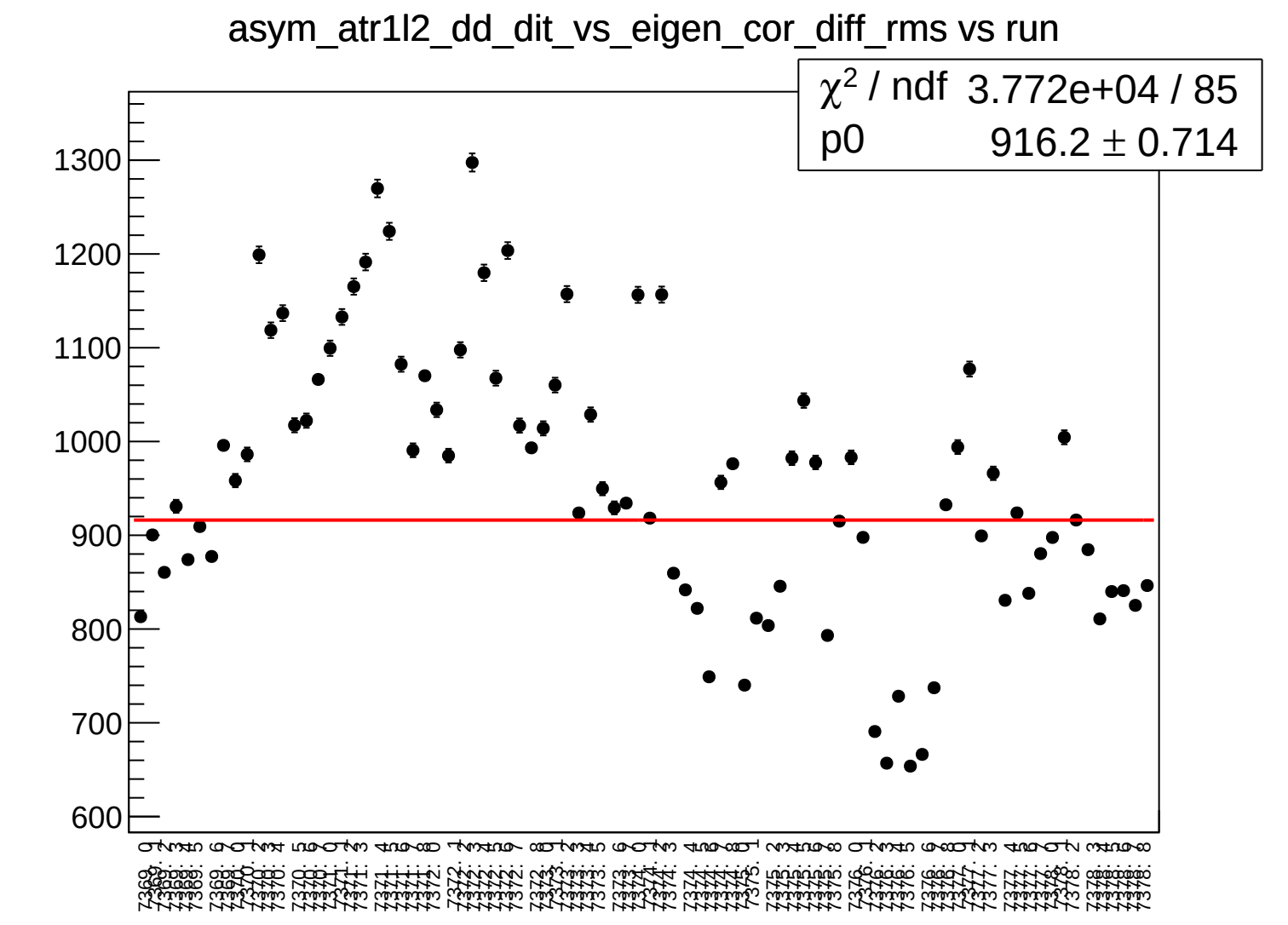

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.93 / 85
p0 1.201 ± 1.01
pull
Entries 86
Mean 43.17
Std Dev 0

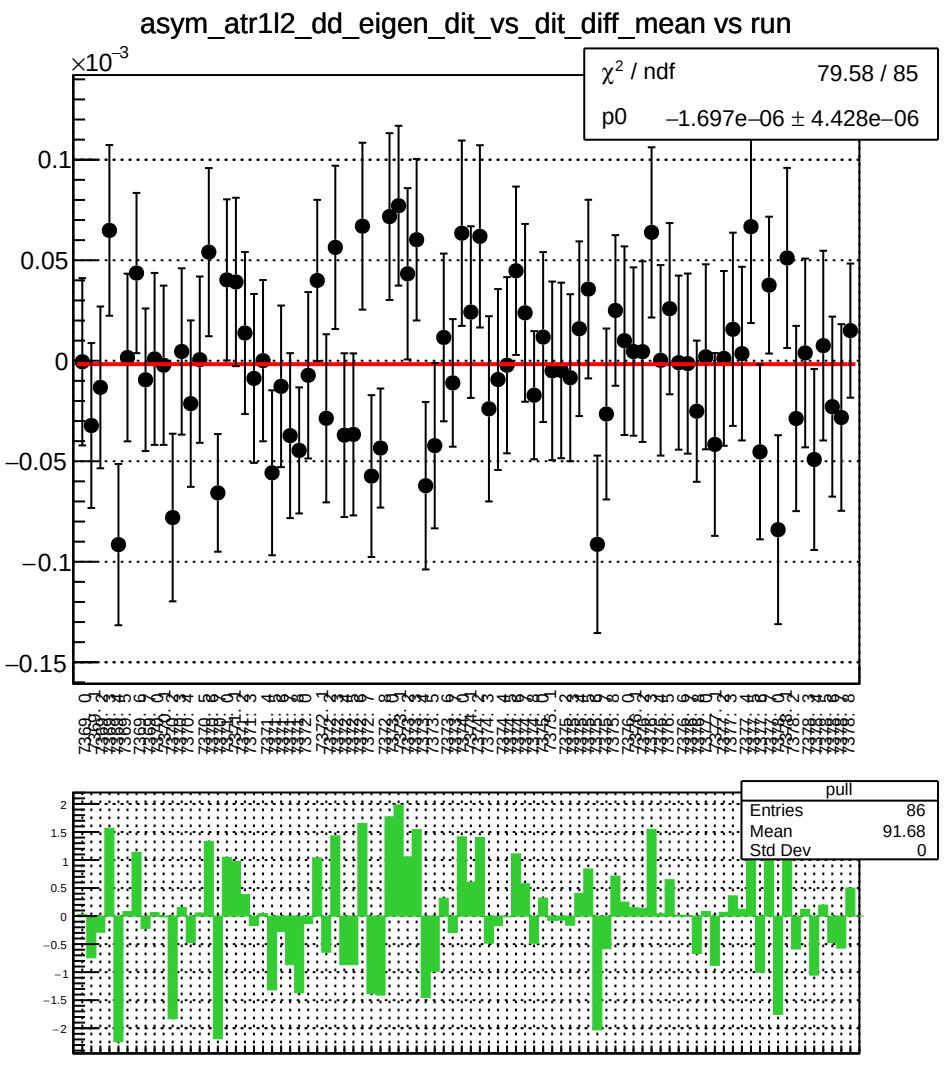

pull1D
Entries 86
Mean −0.02712
Std Dev 1.072

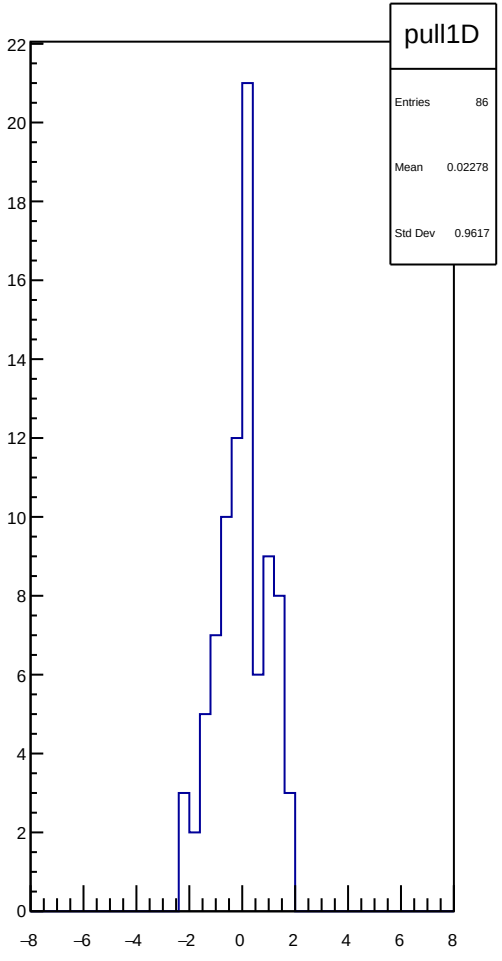

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.772e+04 / 85
p0 916.2 ± 0.714
1300
1200
1100
1000
900
800
700
600

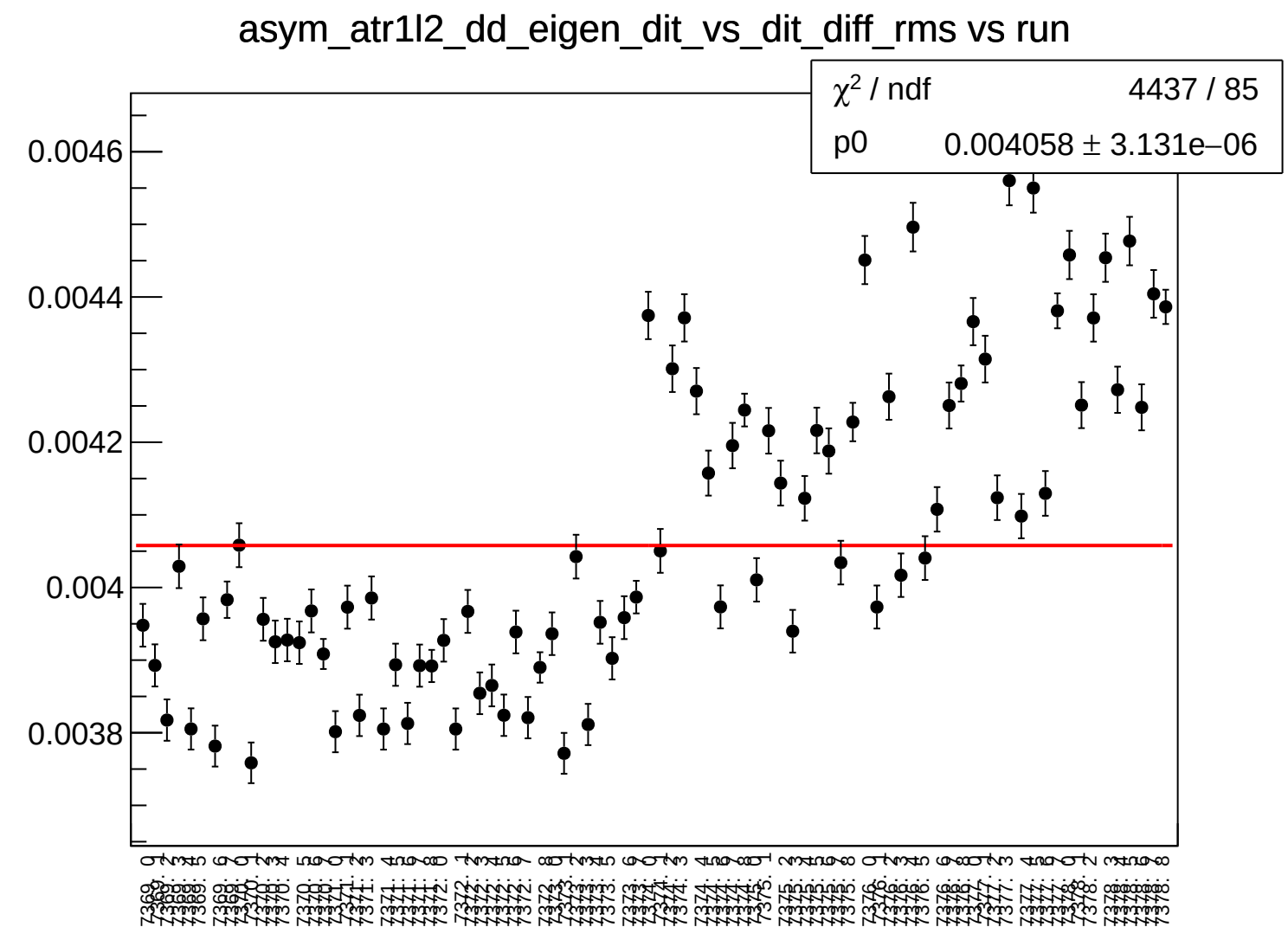

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.93 / 85
p0 1.201 ± 1.01
pull
Entries 86
Mean 43.17
Std Dev 0

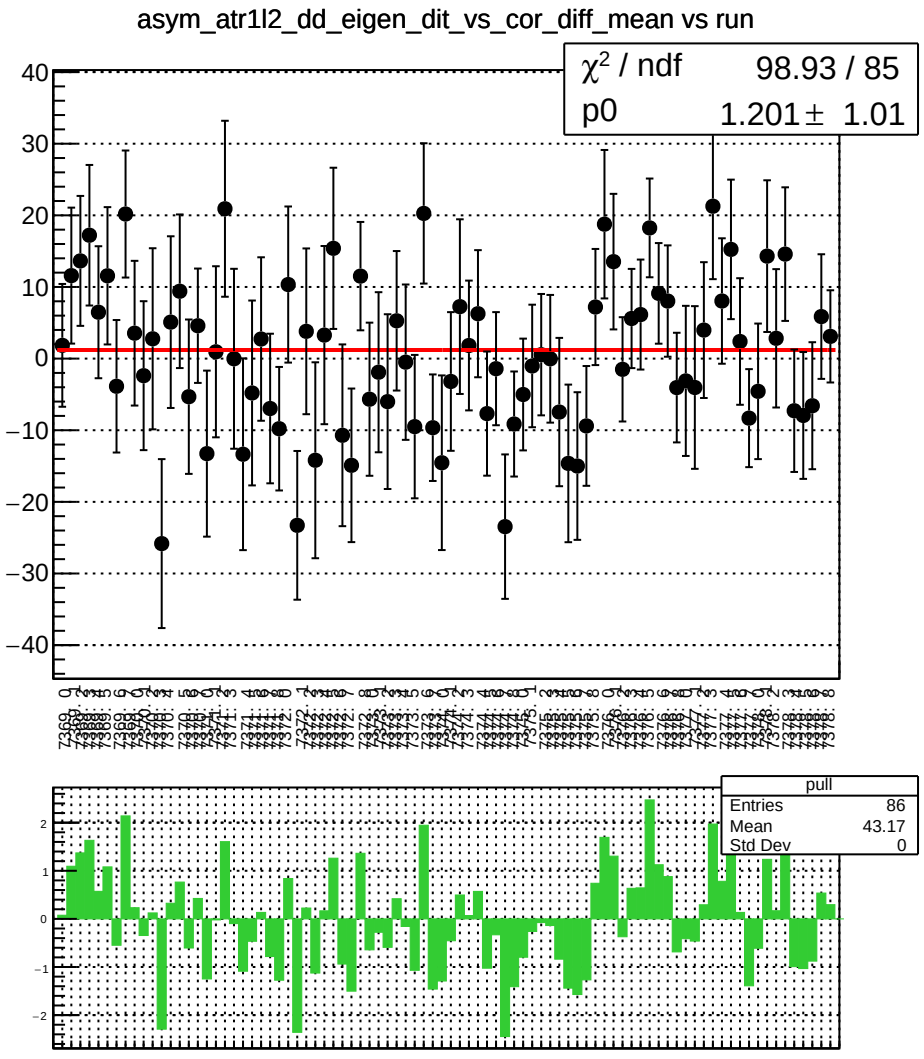

pull1D
Entries 86
Mean −0.02712
Std Dev 1.072

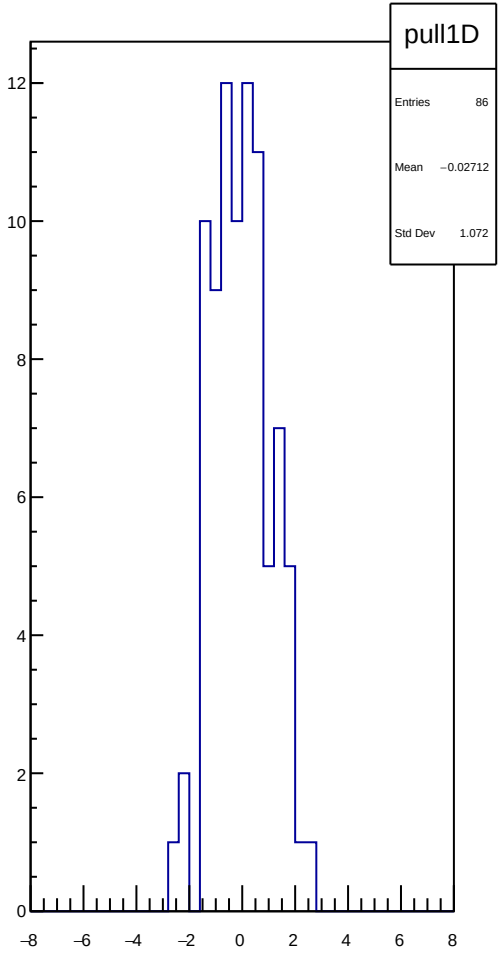

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.772e+04 / 85
p0 916.2 ± 0.714
1300
1200
1100
1000
900
800
700
600

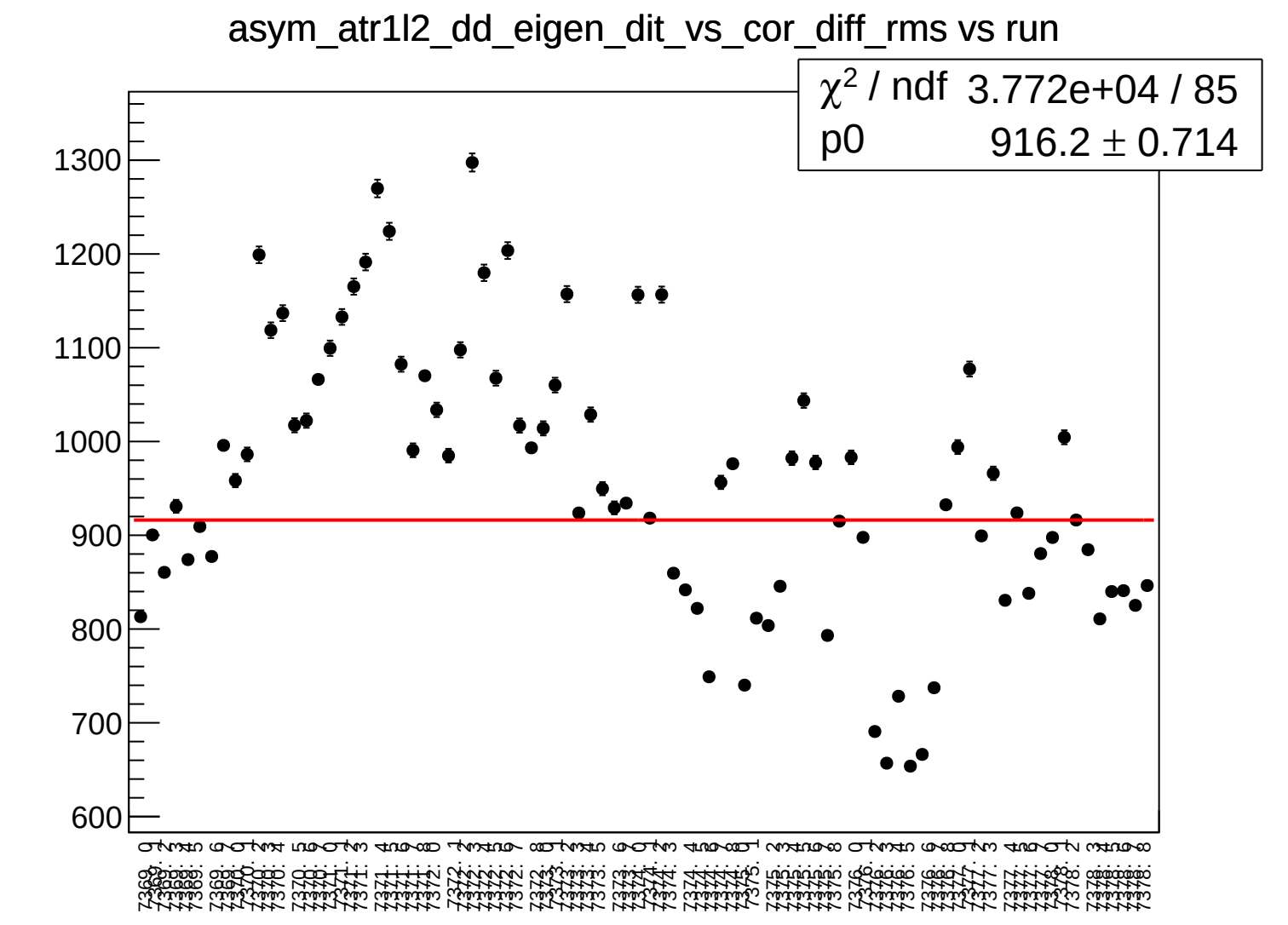

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.58 / 85
p0 −1.697e−06 ± 4.428e−06
pull
Entries 86
Mean 91.68
Std Dev 0

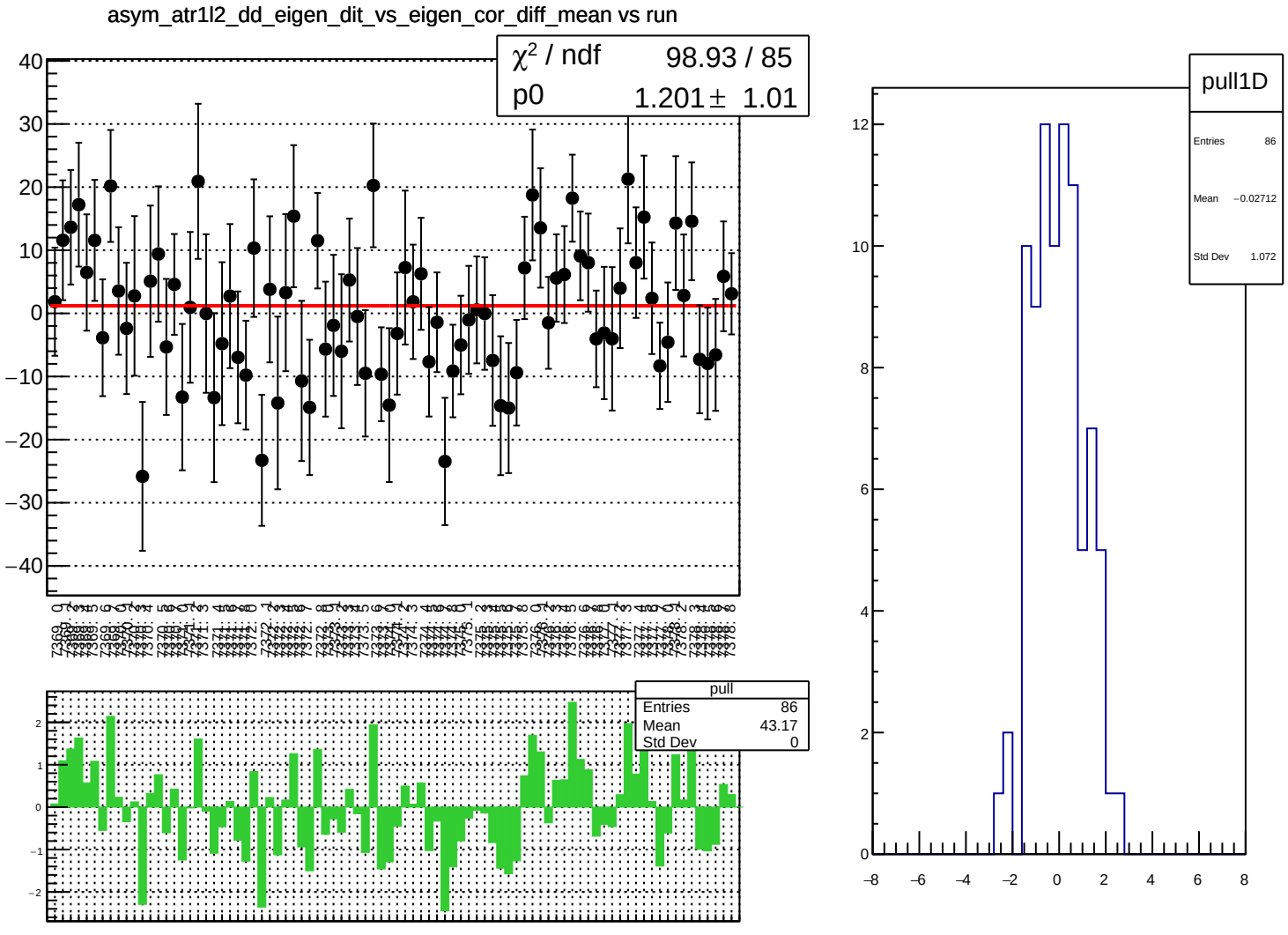

pull1D
Entries 86
Mean 0.02278
Std Dev 0.9617

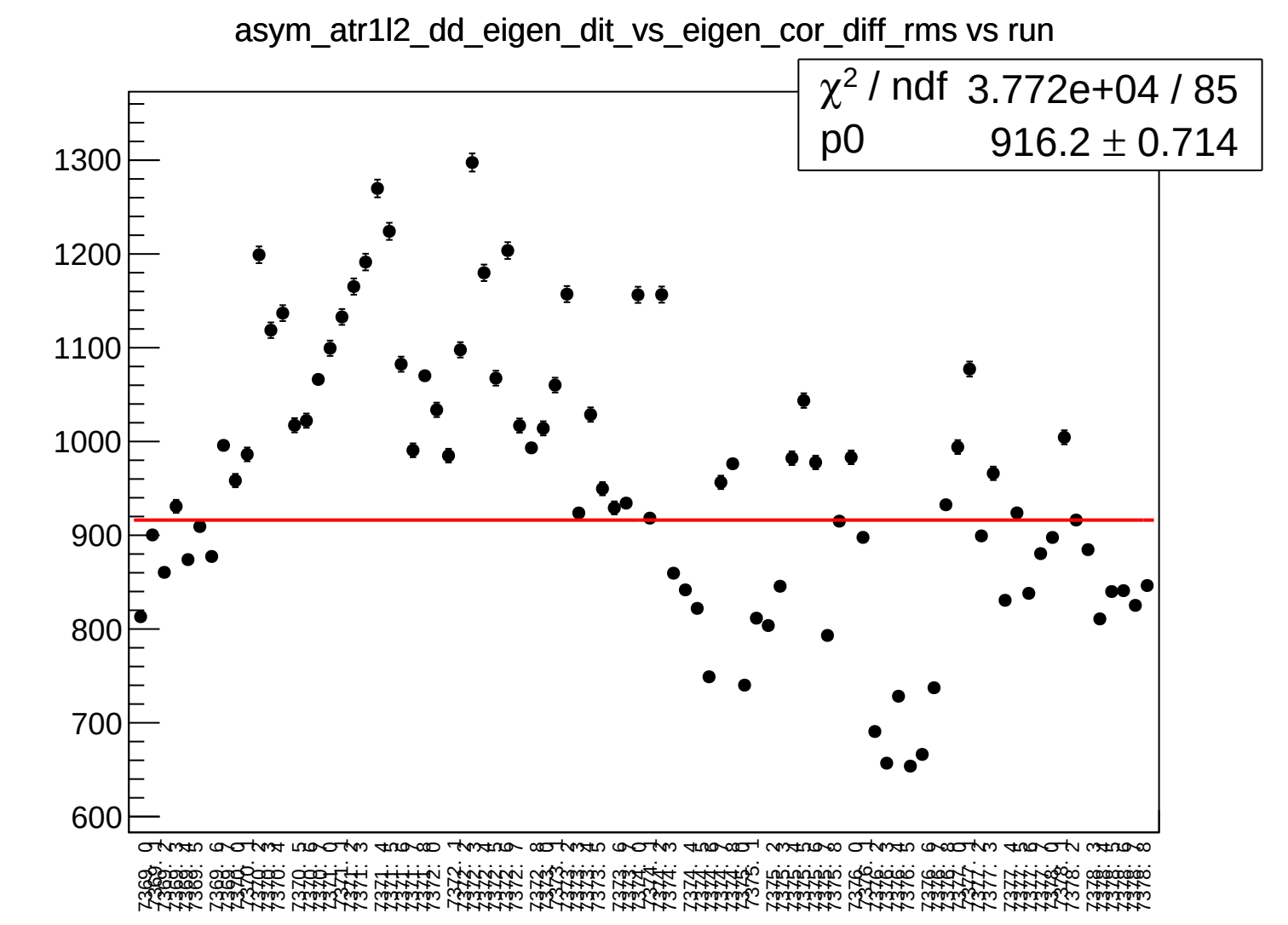

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4437 / 85
p0 0.004058 ± 3.131e−06
0.0046
0.0044
0.0042
0.004
0.0038

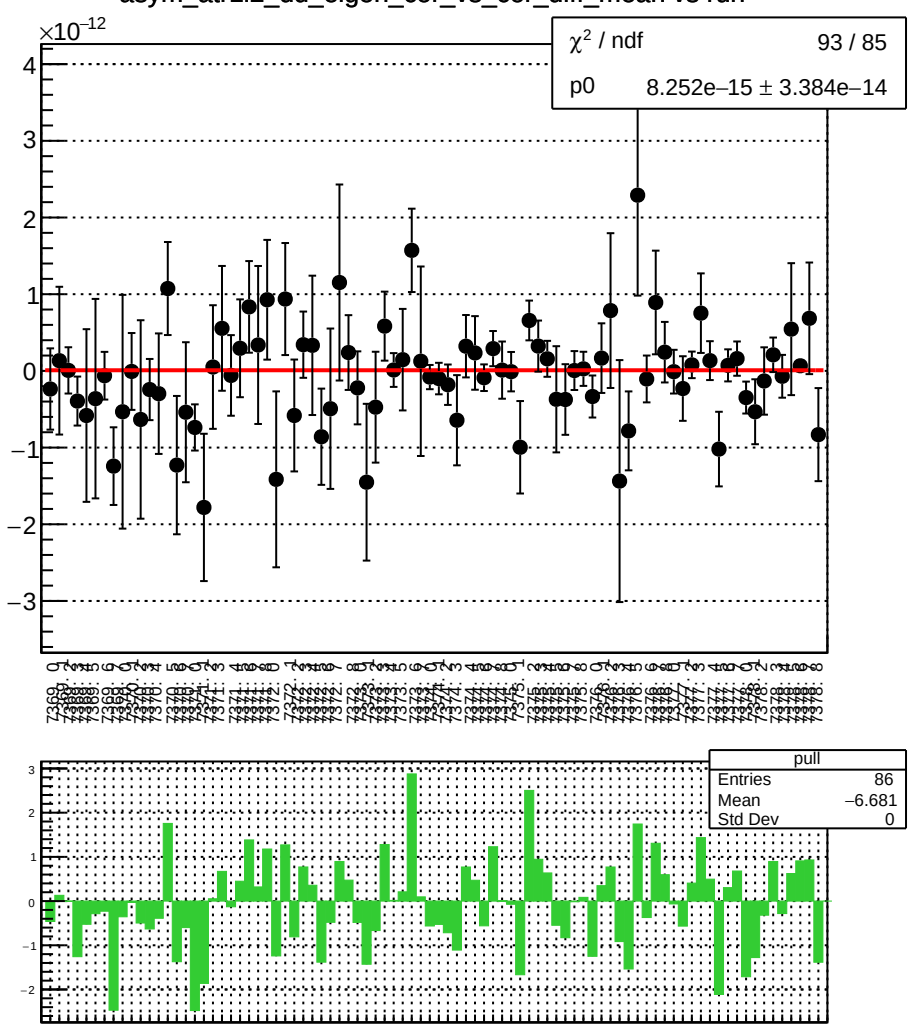

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.93 / 85
p0 1.201 ± 1.01
pull
Entries 86
Mean 43.17
Std Dev 0

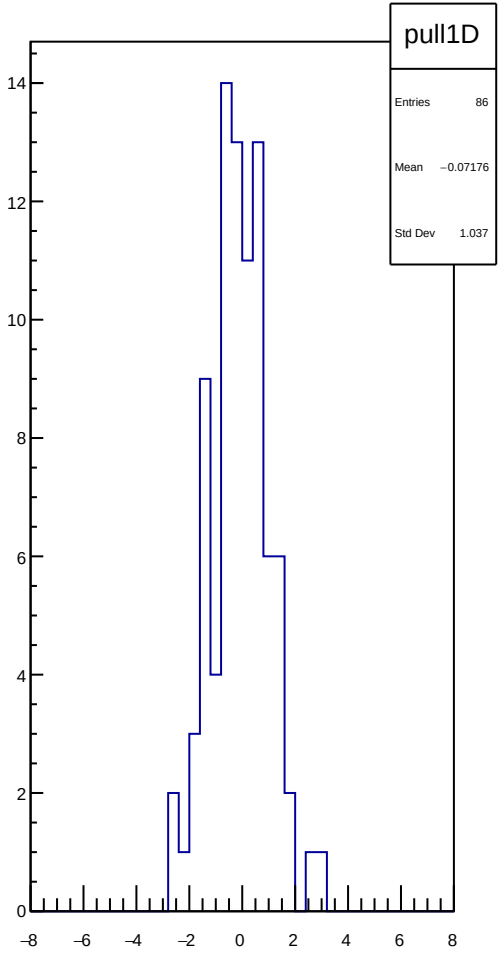

pull1D
Entries 86
Mean −0.02712
Std Dev 1.072

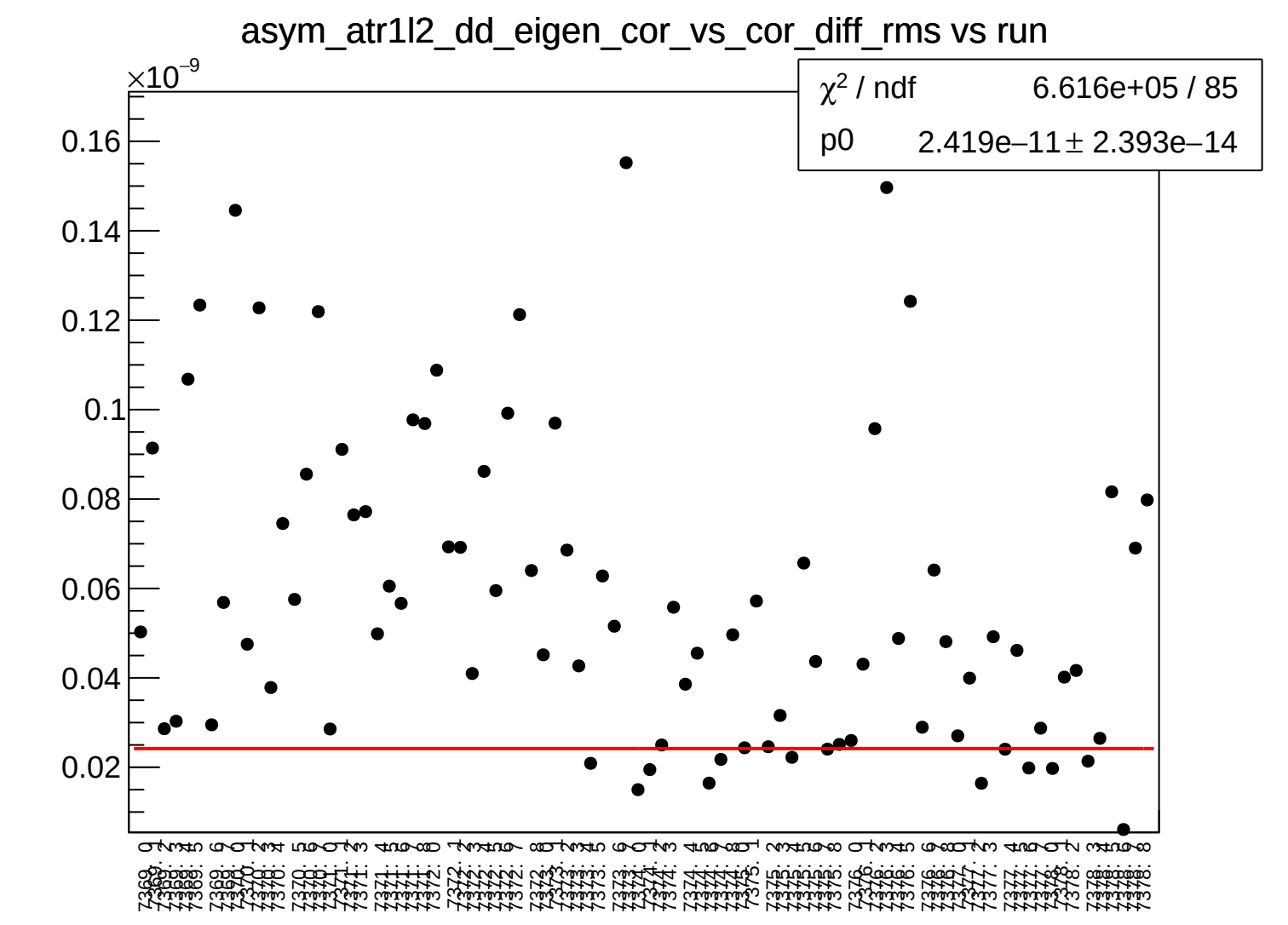

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.772e+04 / 85
p0 916.2 ± 0.714
1300
1200
1100
1000
900
800
700
600

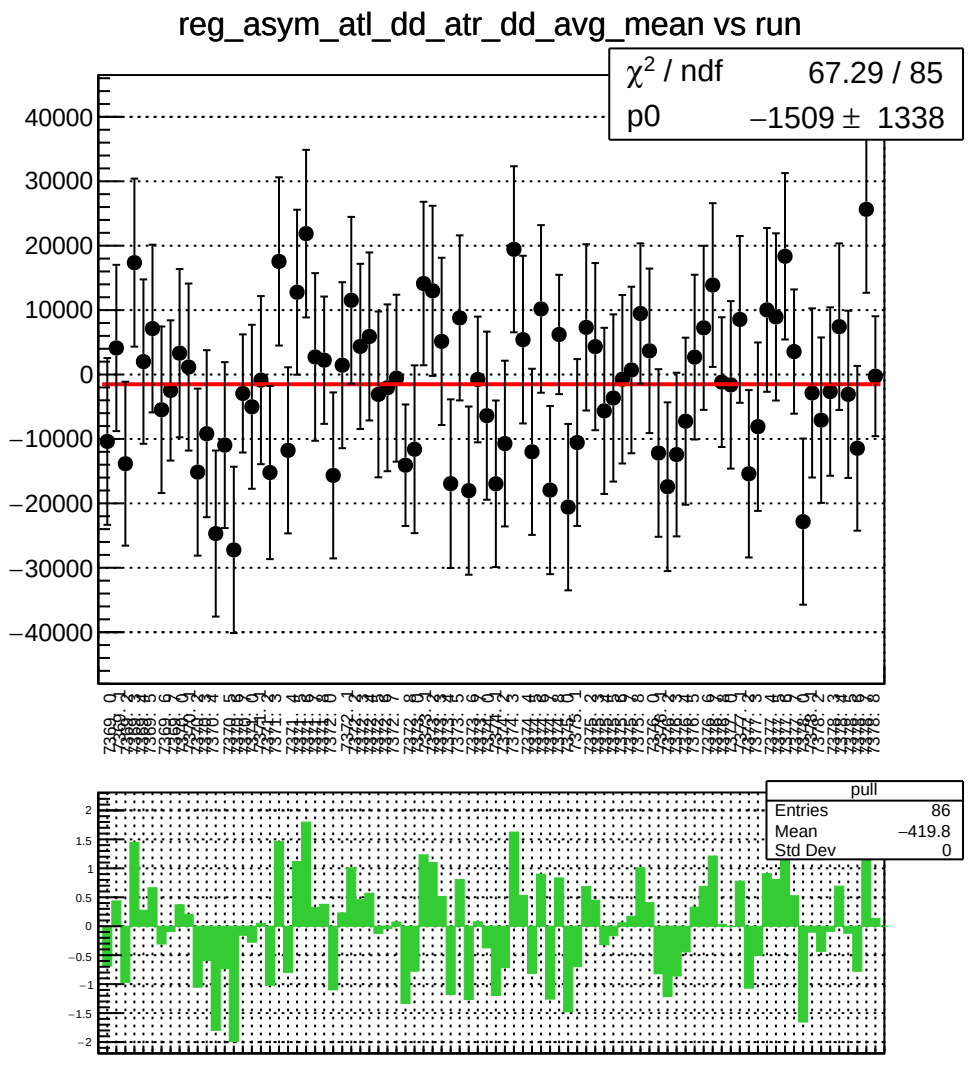

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.93 / 85
p0 1.201 ± 1.01
pull
Entries 86
Mean 43.17
Std Dev 0
pull1D
Entries 86
Mean −0.02712
Std Dev 1.072

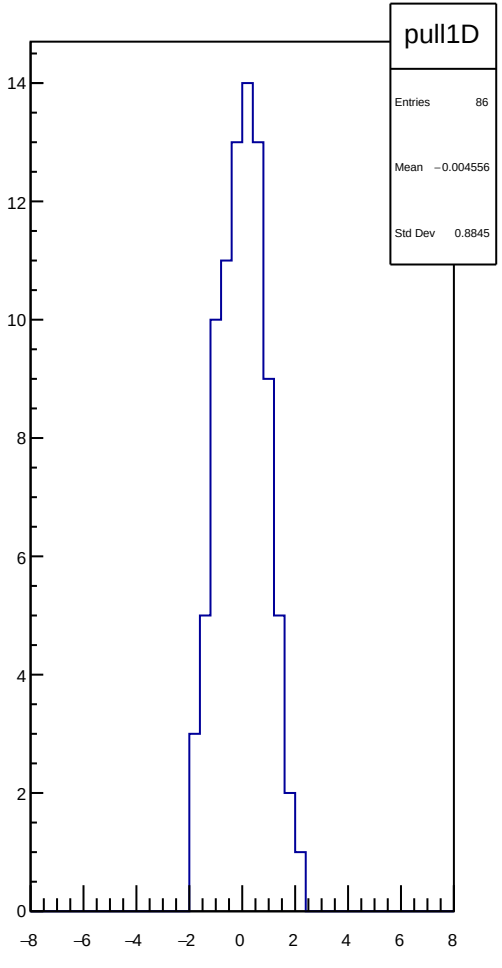

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.772e+04 / 85
p0 916.2 ± 0.714
1300
1200
1100
1000
900
800
700
600

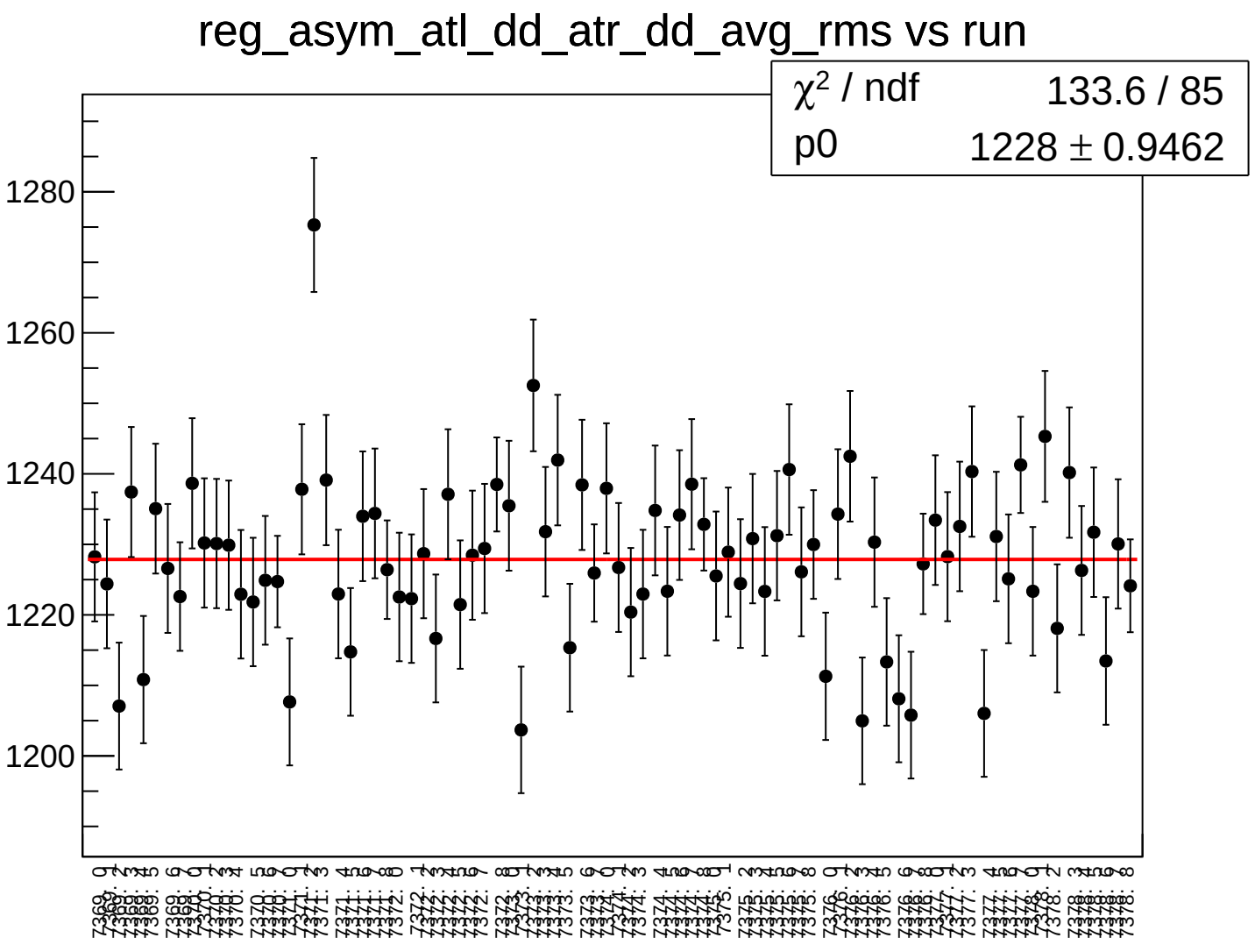

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93 / 85
p0 8.252e−15 ± 3.384e−14
pull
Entries 86
Mean −6.681
Std Dev 0

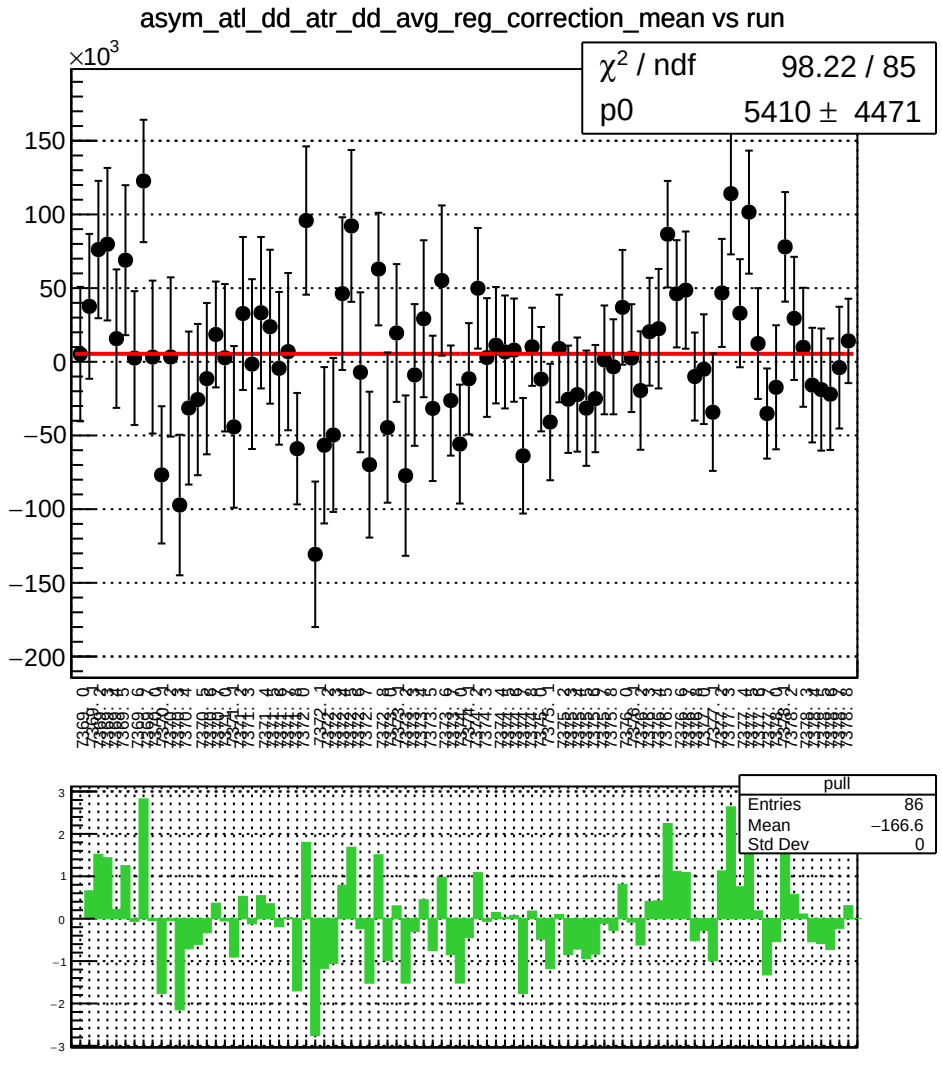

pull1D
Entries 86
Mean −0.07176
Std Dev 1.037

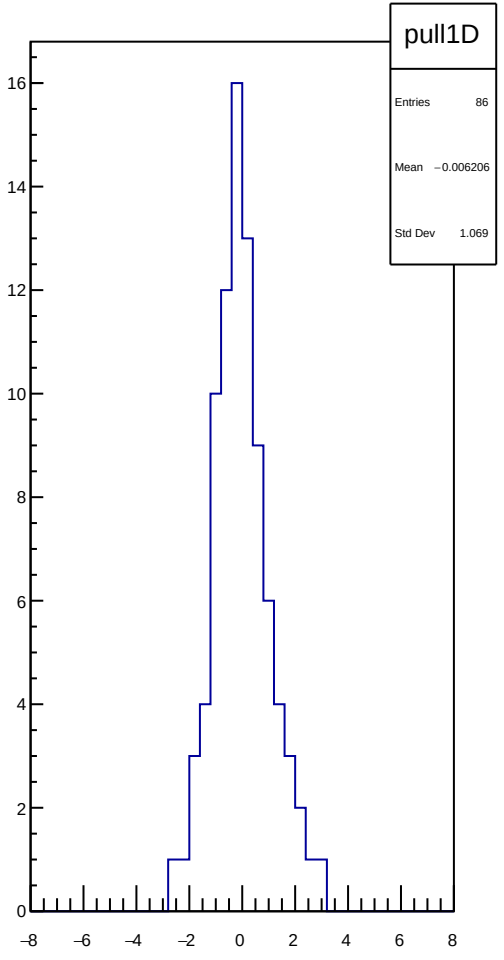

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.616e+05 / 85
p0 2.419e−11 ± 2.393e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

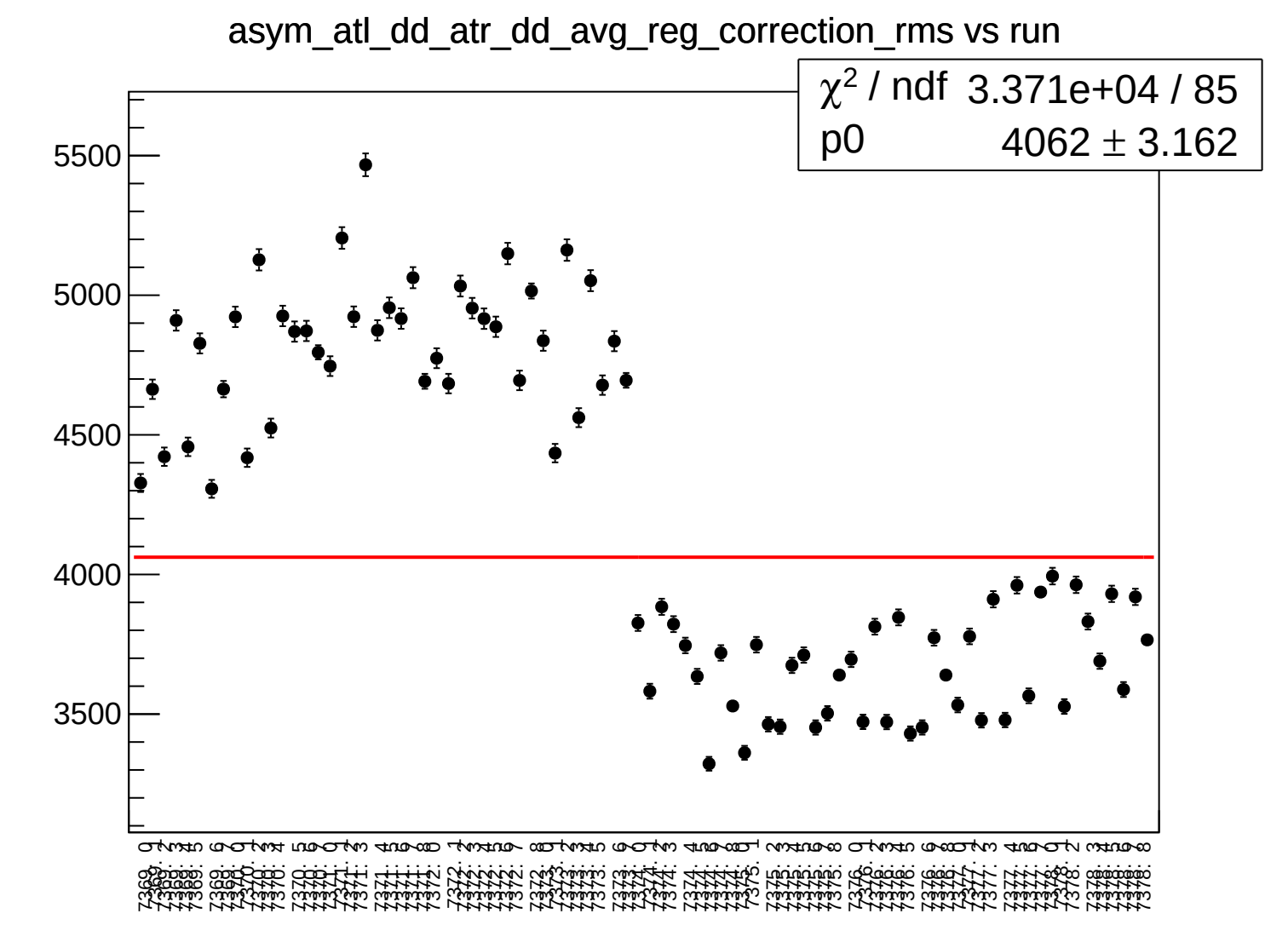

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.29 / 85
p0 −1509 ± 1338
pull
Entries 86
Mean −419.8
Std Dev 0

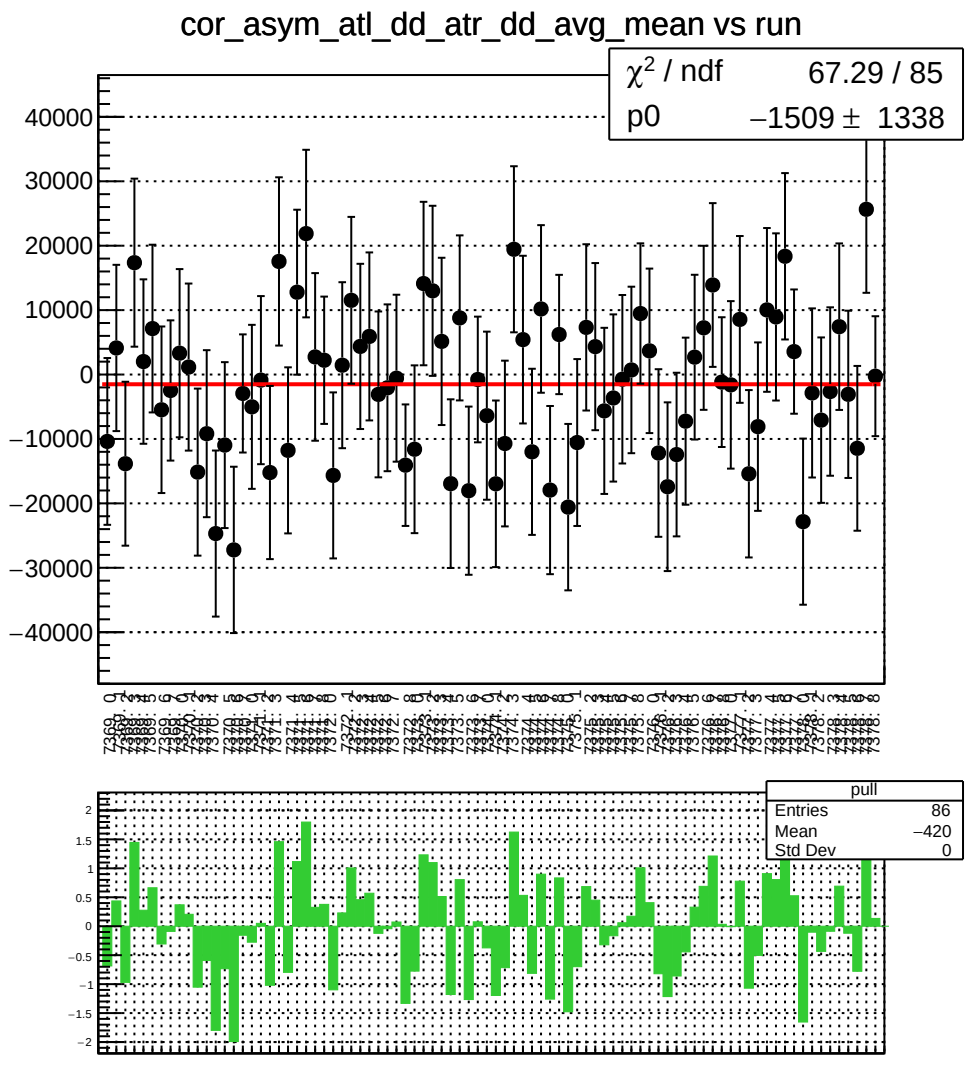

pull1D
Entries 86
Mean −0.004556
Std Dev 0.8845

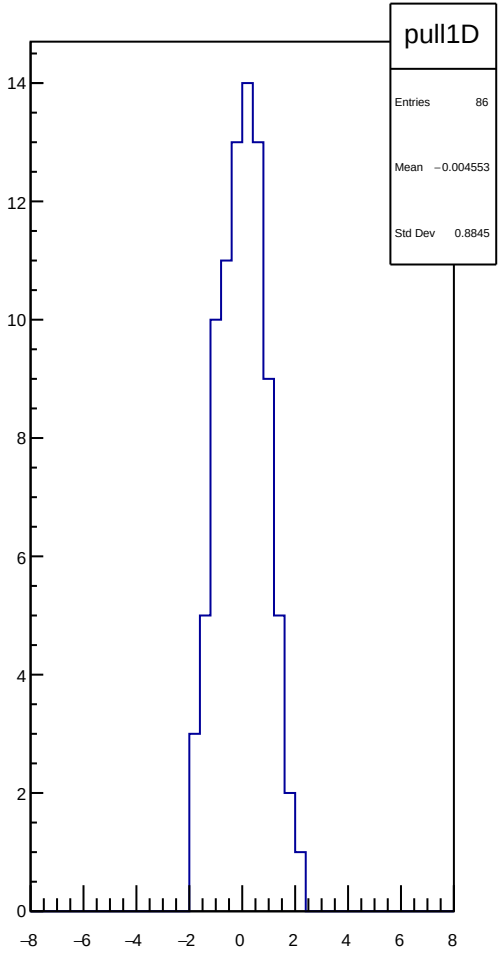

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 133.6 / 85
p0 1228 ± 0.9462
1280
1260
1240
1220
1200

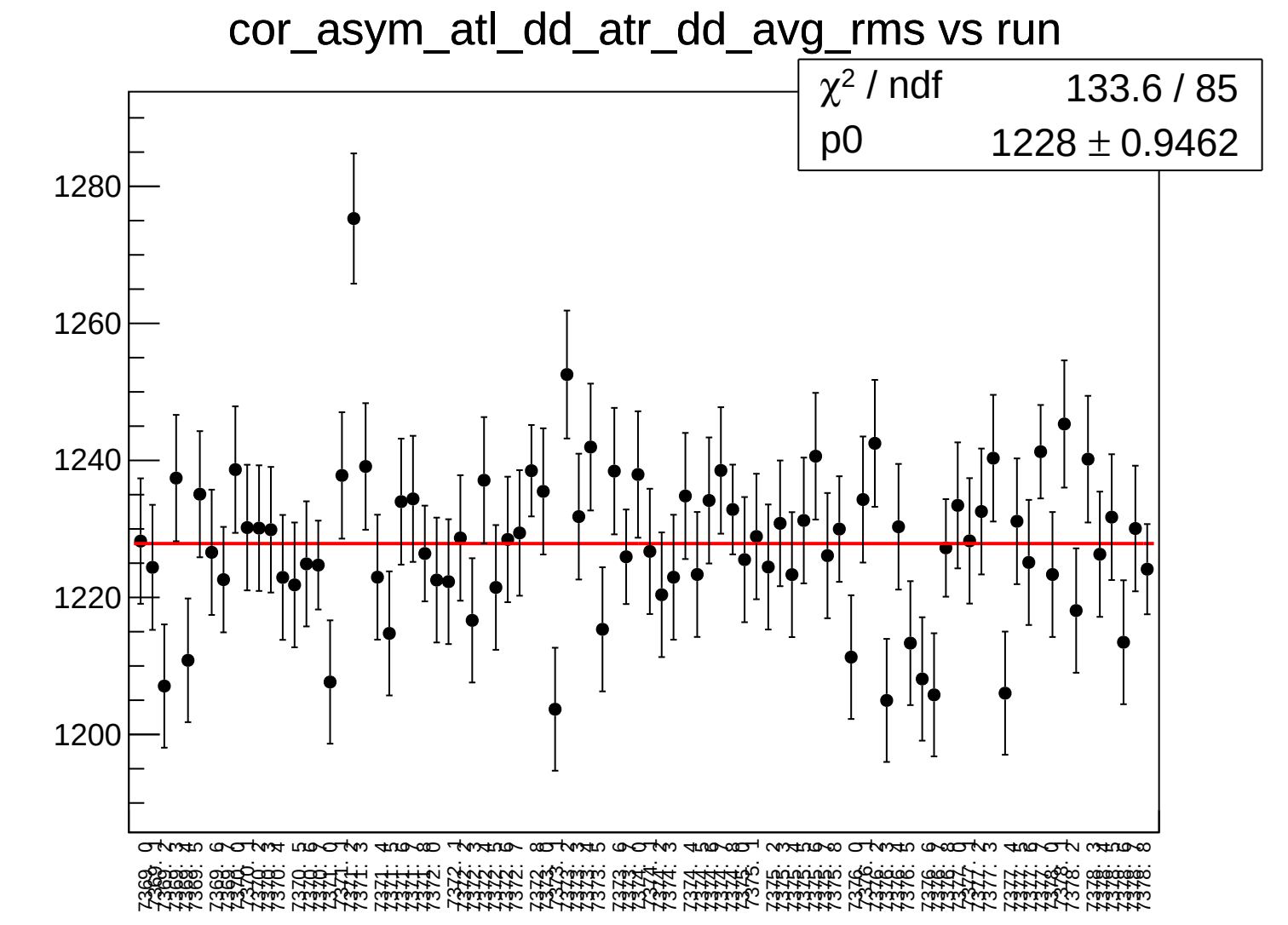

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 98.22 / 85
p0 5410 ± 4471
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −166.6
Std Dev 0
3
2
1
0
−1
−2
−3

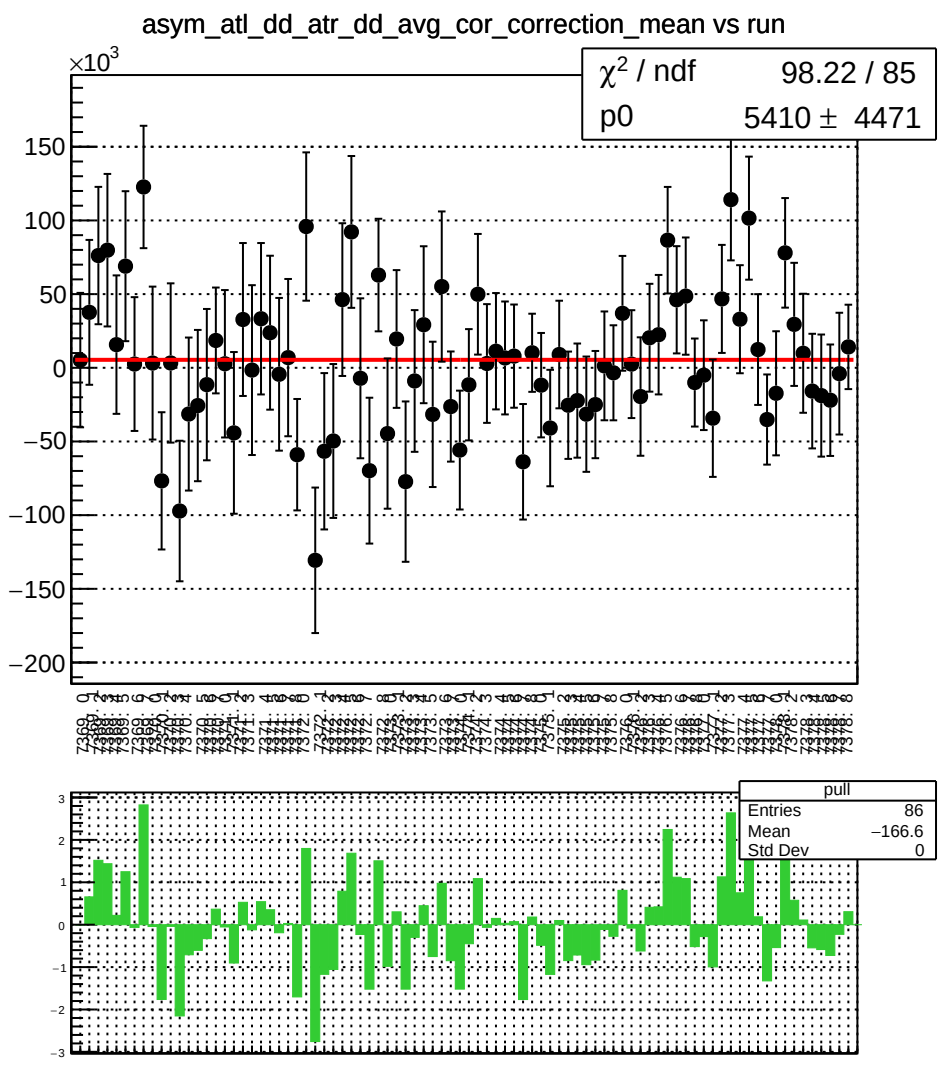

pull1D
Entries 86
Mean −0.006206
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

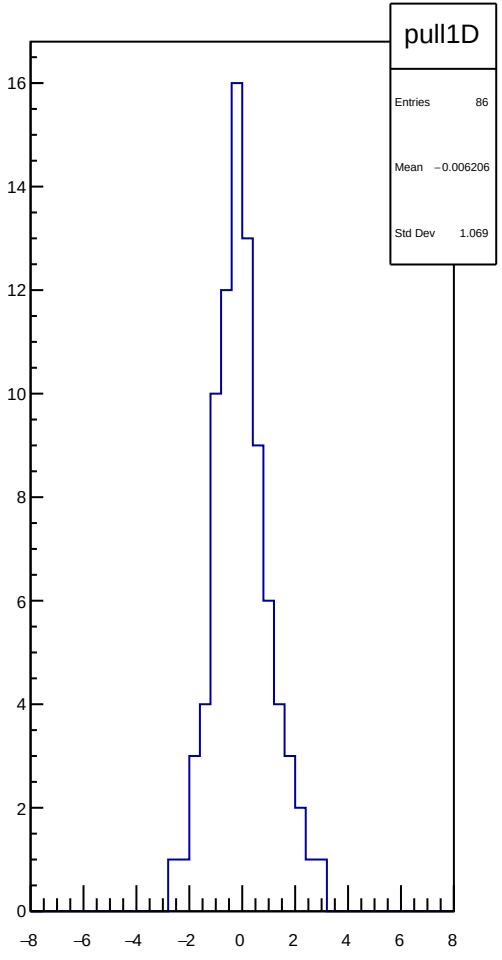

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.371e+04 / 85
p0 4062 ± 3.162
5500
5000
4500
4000
3500

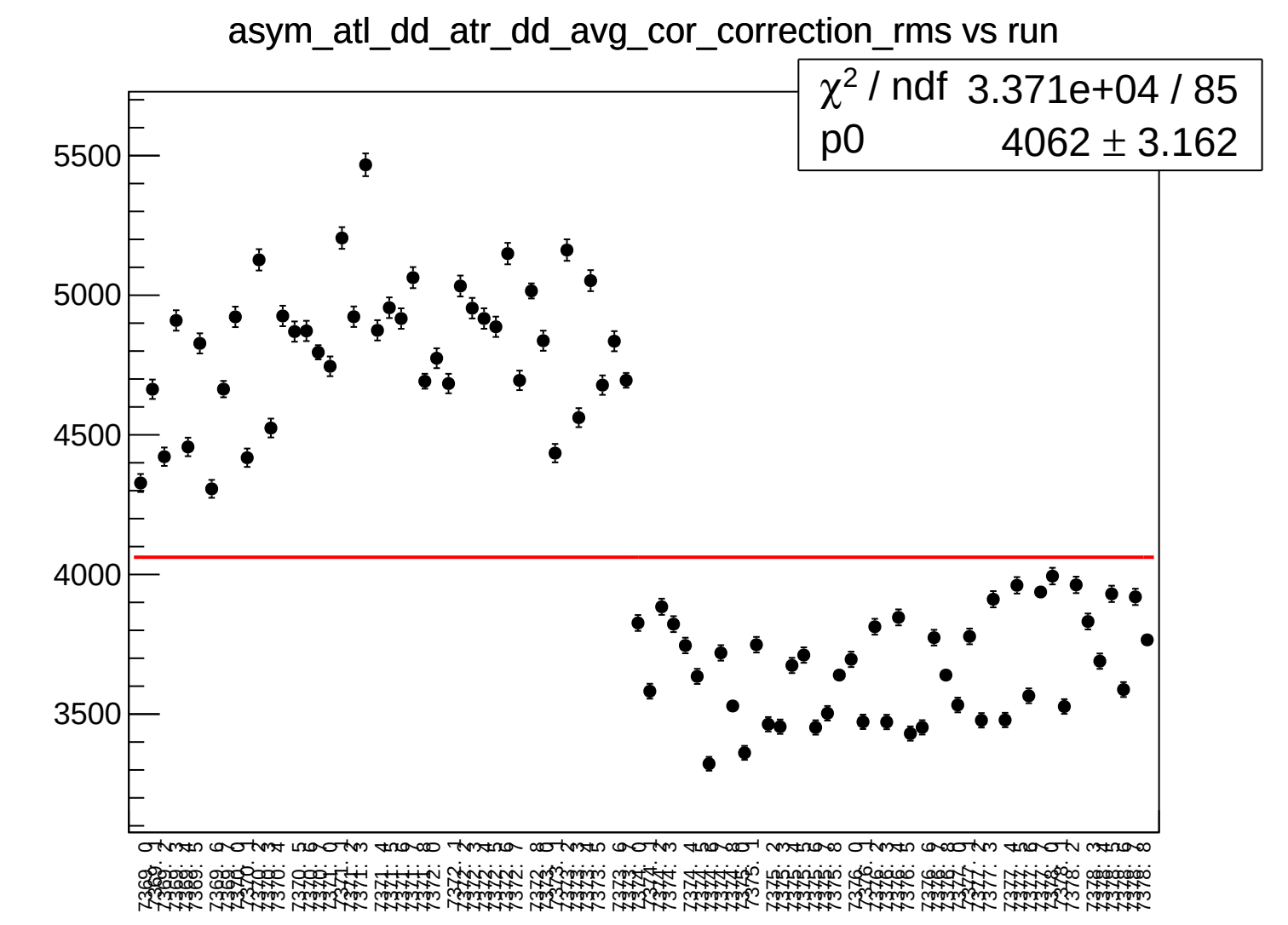

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.29 / 85
p0 −1509 ± 1338
pull
Entries 86
Mean −420
Std Dev 0

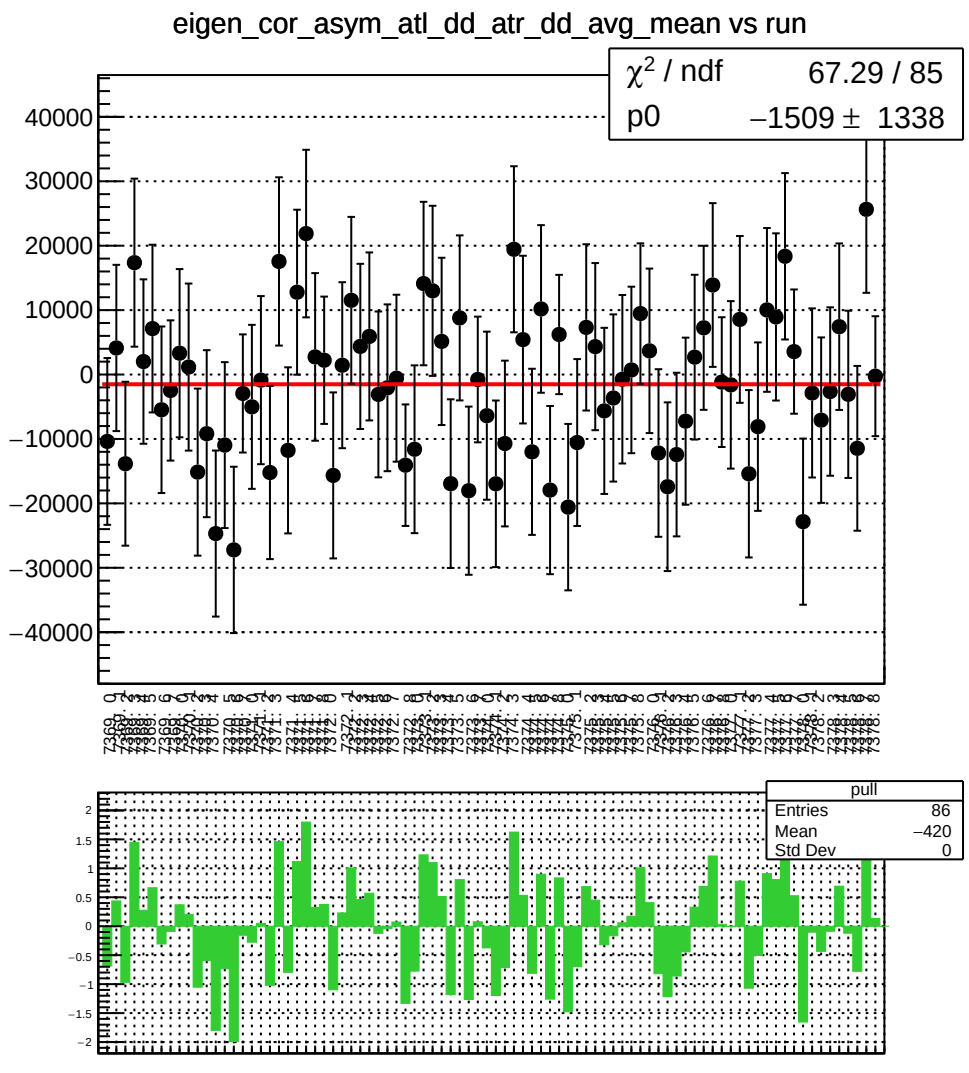

pull1D
Entries 86
Mean −0.004553
Std Dev 0.8845

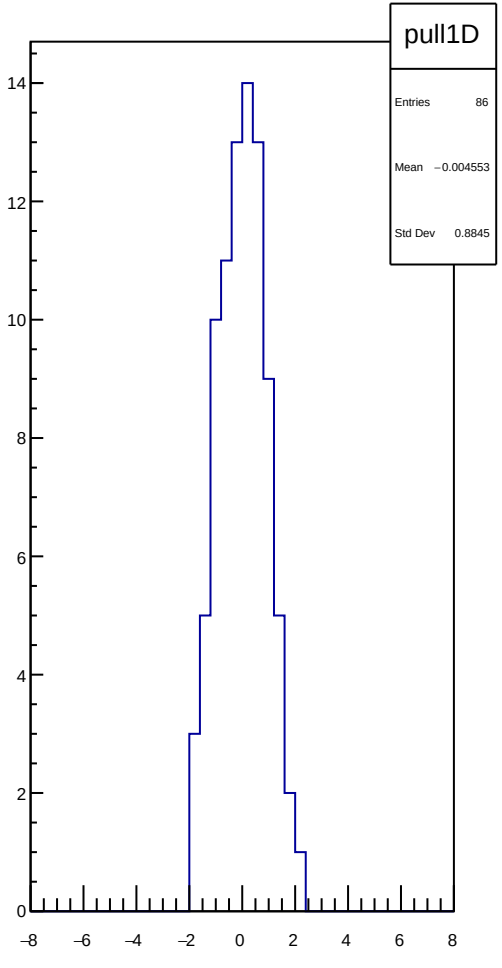

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 133.6 / 85
p0 1228 ± 0.9462
1280
1260
1240
1220
1200

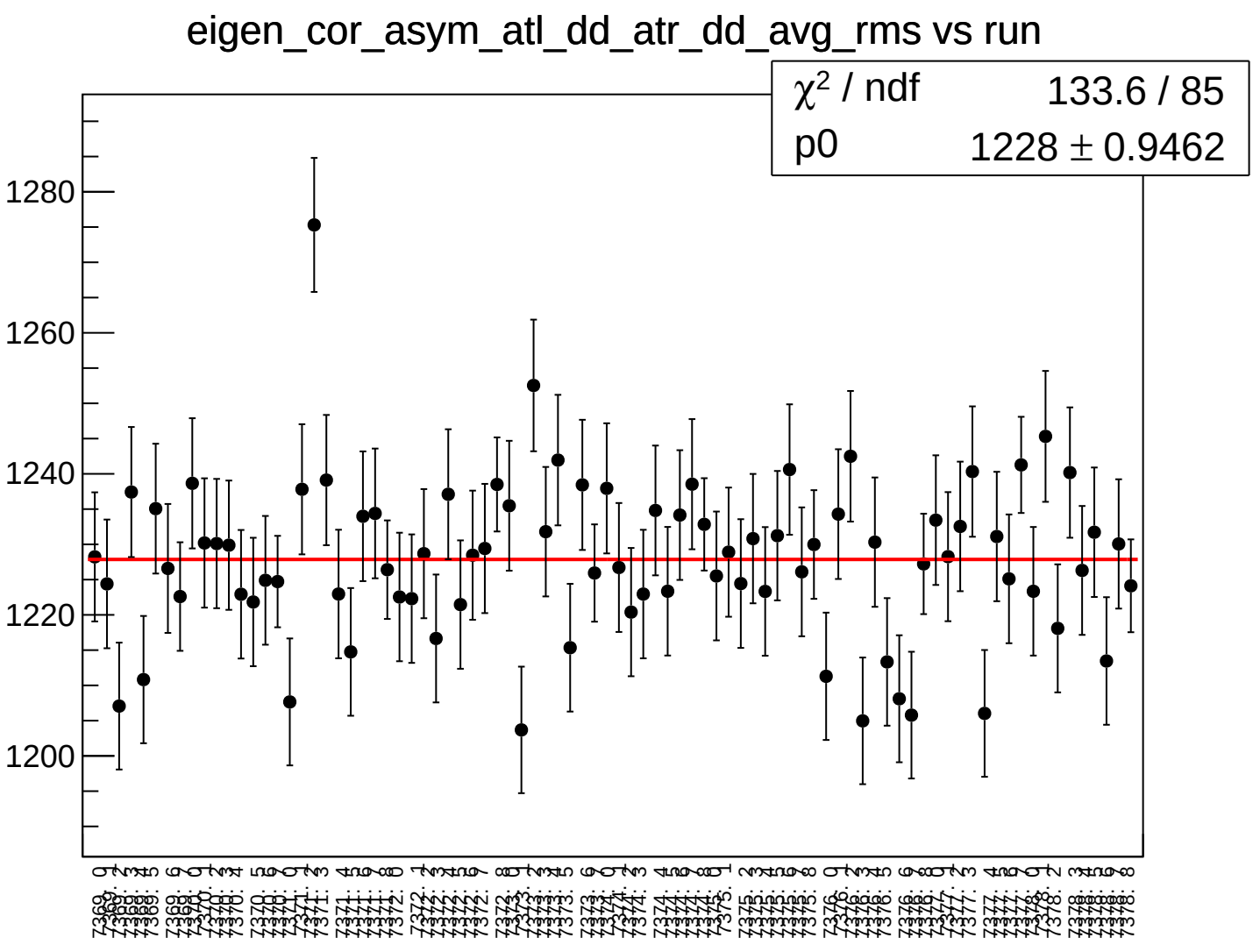

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
χ² / ndf 98.22 / 85
p0 5410 ± 4471
×10³
pull
Entries 86
Mean −166.6
Std Dev 0

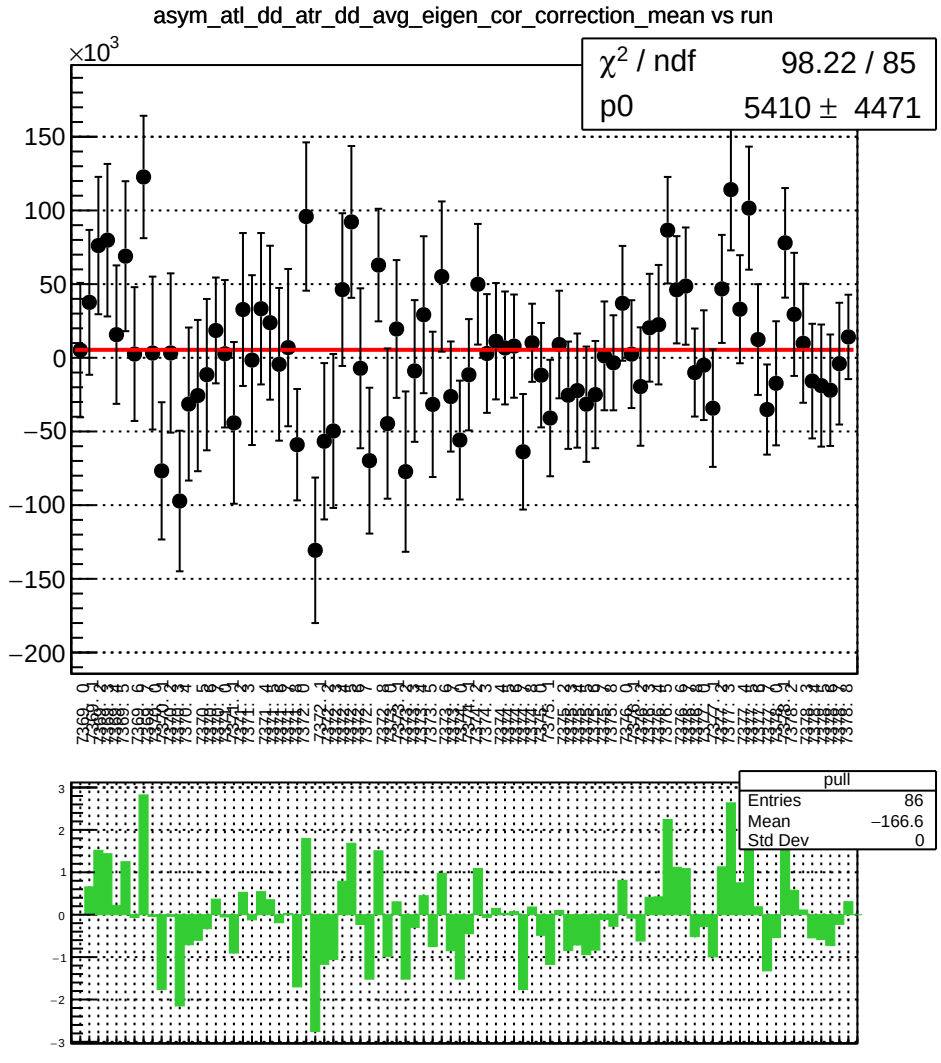

pull1D
Entries 86
Mean −0.006206
Std Dev 1.069

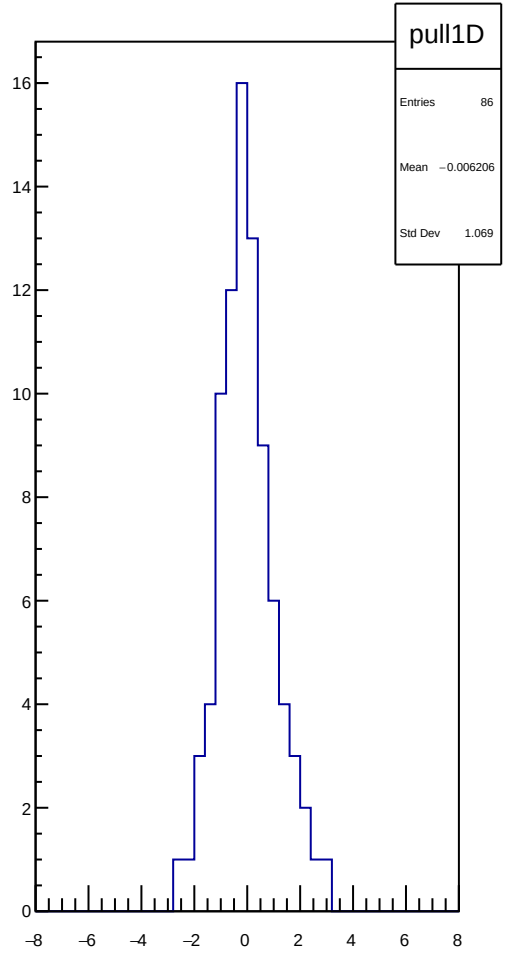

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 3.371e+04 / 85
p0 4062 ± 3.162
5500
5000
4500
4000
3500

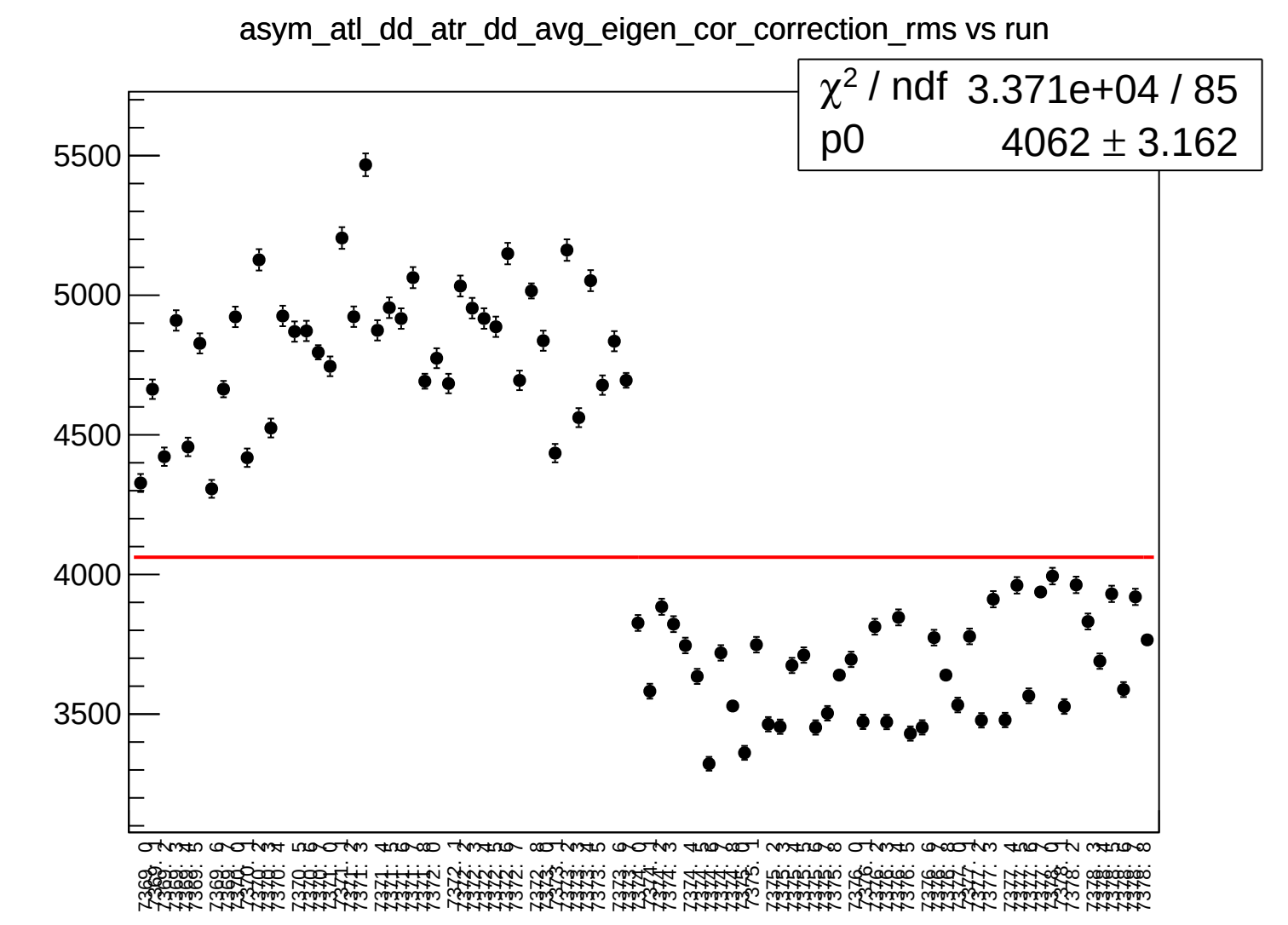

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.29 / 85
p0 −1509 ± 1338
pull
Entries 86
Mean −420
Std Dev 0

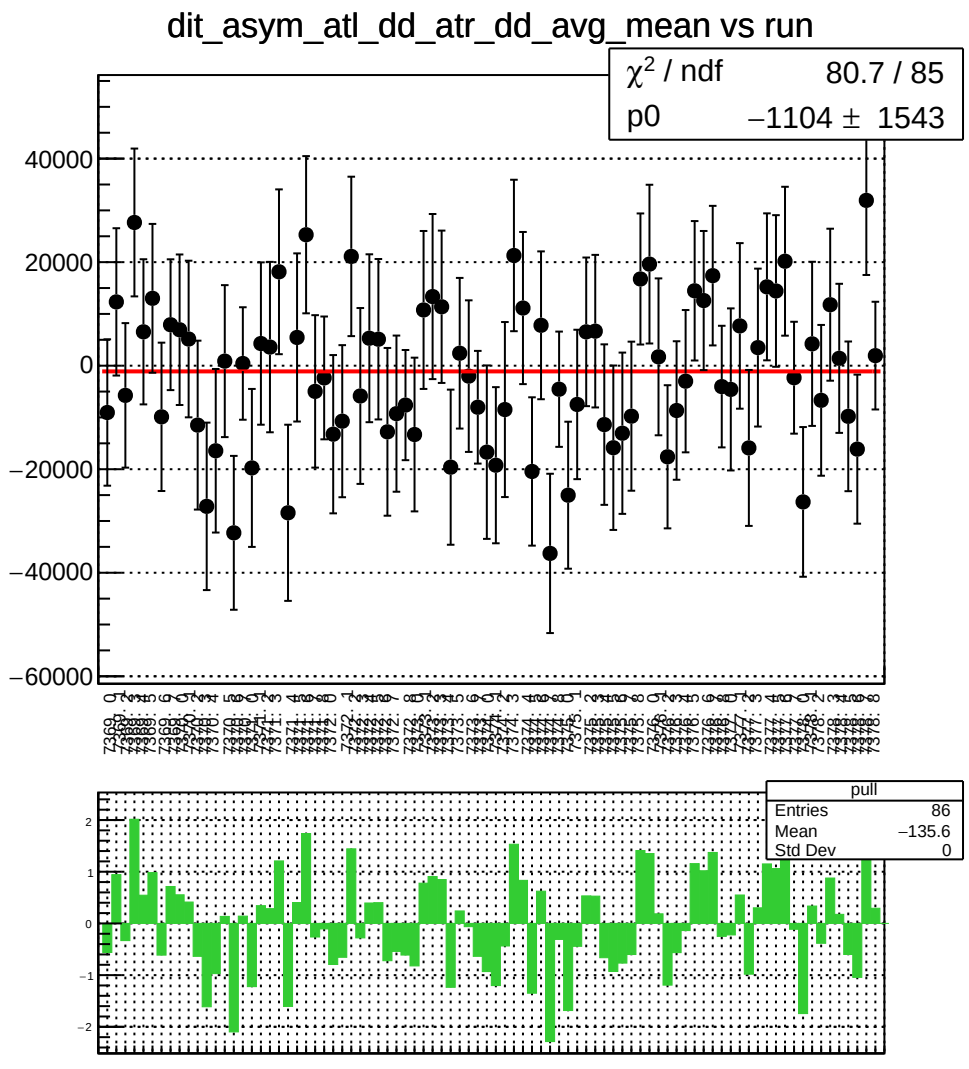

pull1D
Entries 86
Mean −0.004553
Std Dev 0.8845

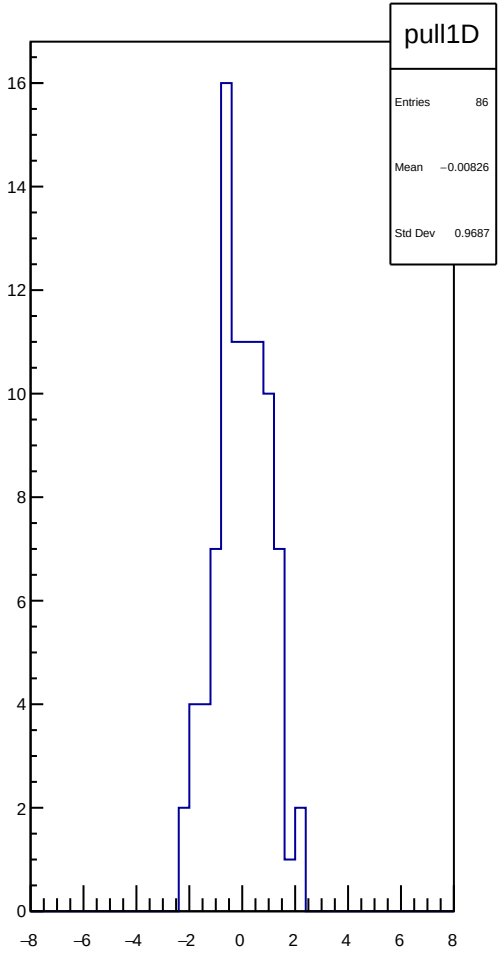

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 133.6 / 85
p0 1228 ± 0.9462
1280
1260
1240
1220
1200

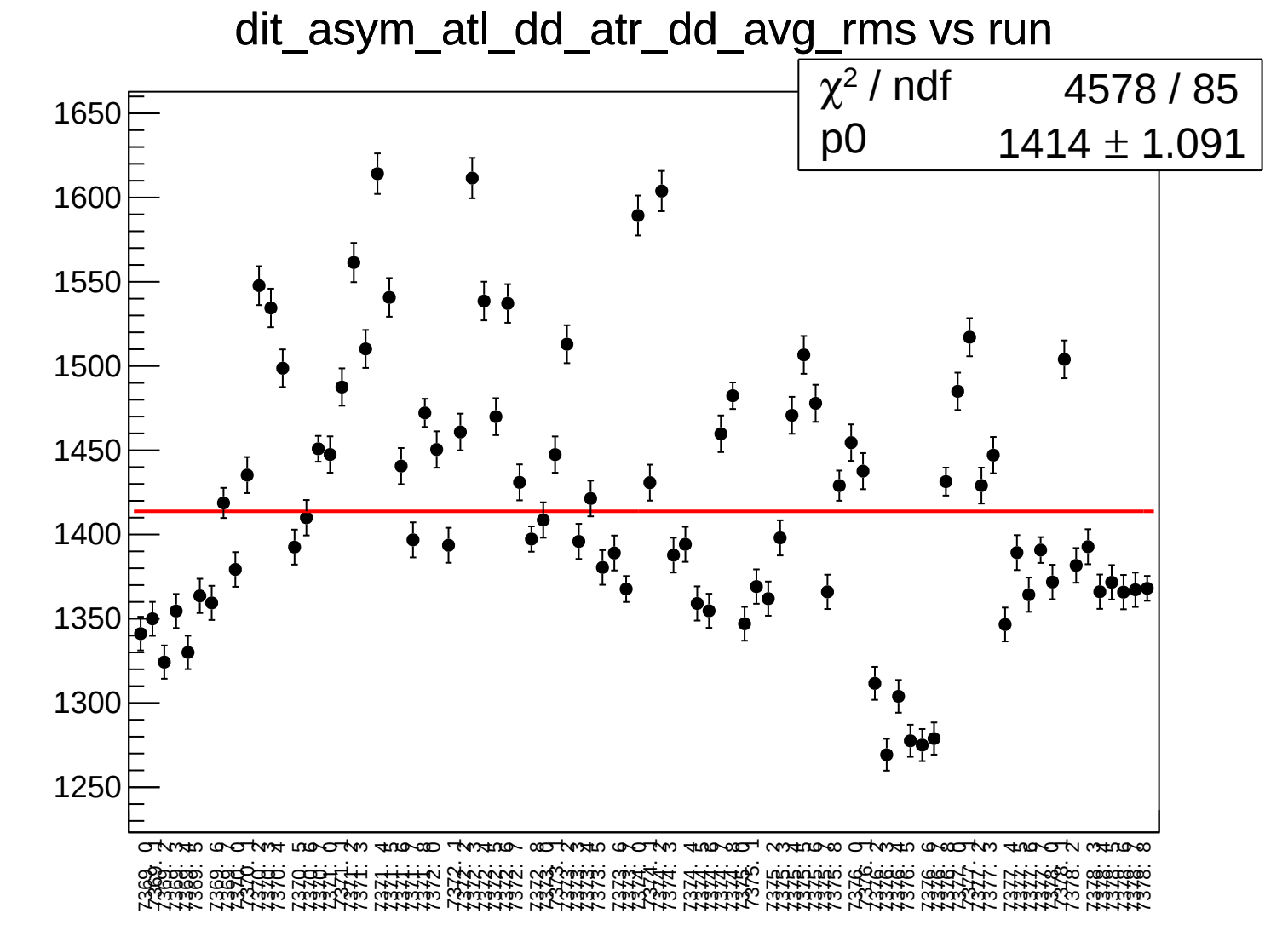

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 98.22 / 85
p0 5410 ± 4471
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −166.6
Std Dev 0
3
2
1
0
−1
−2
−3

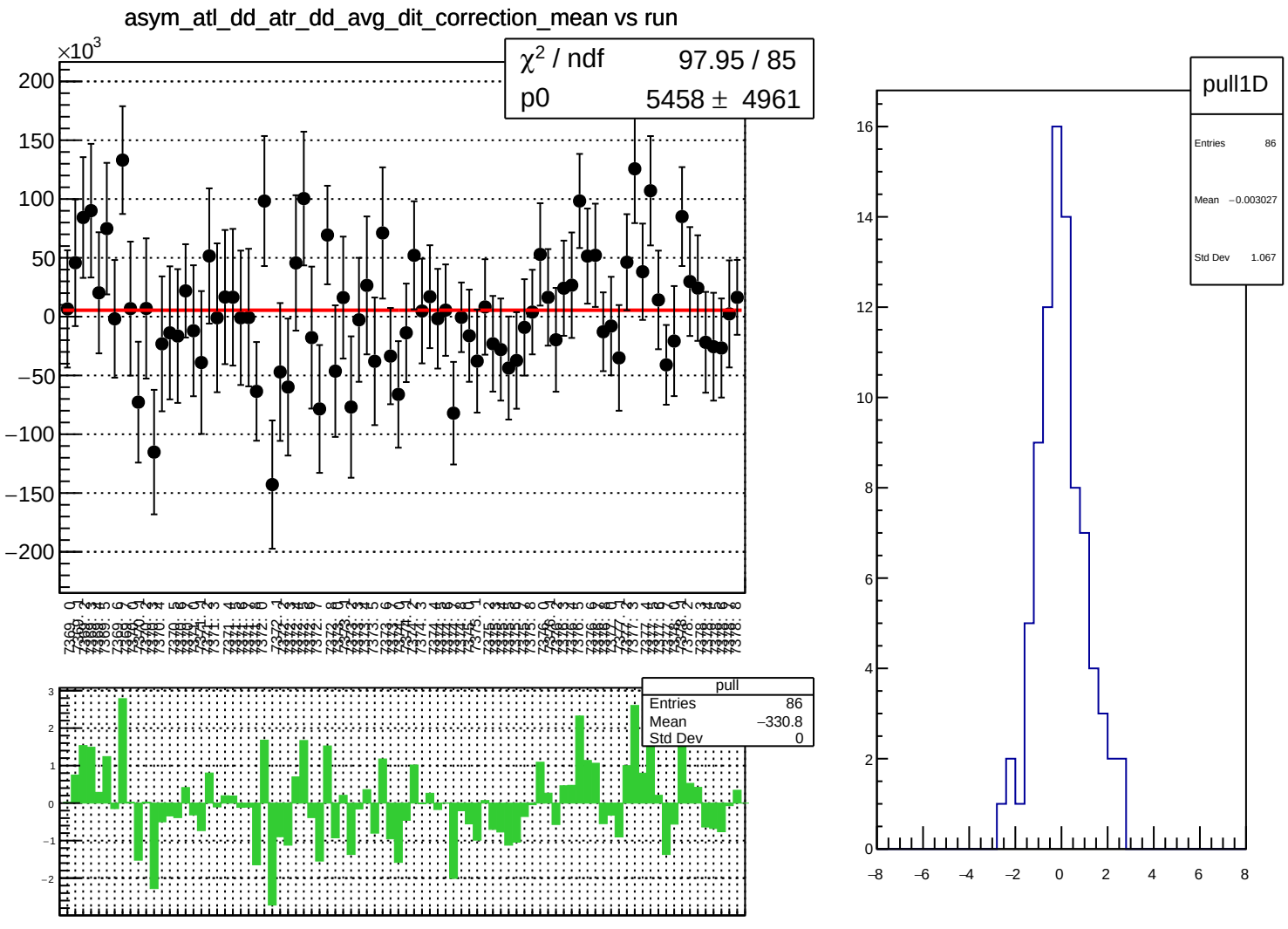

pull1D
Entries 86
Mean −0.006206
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

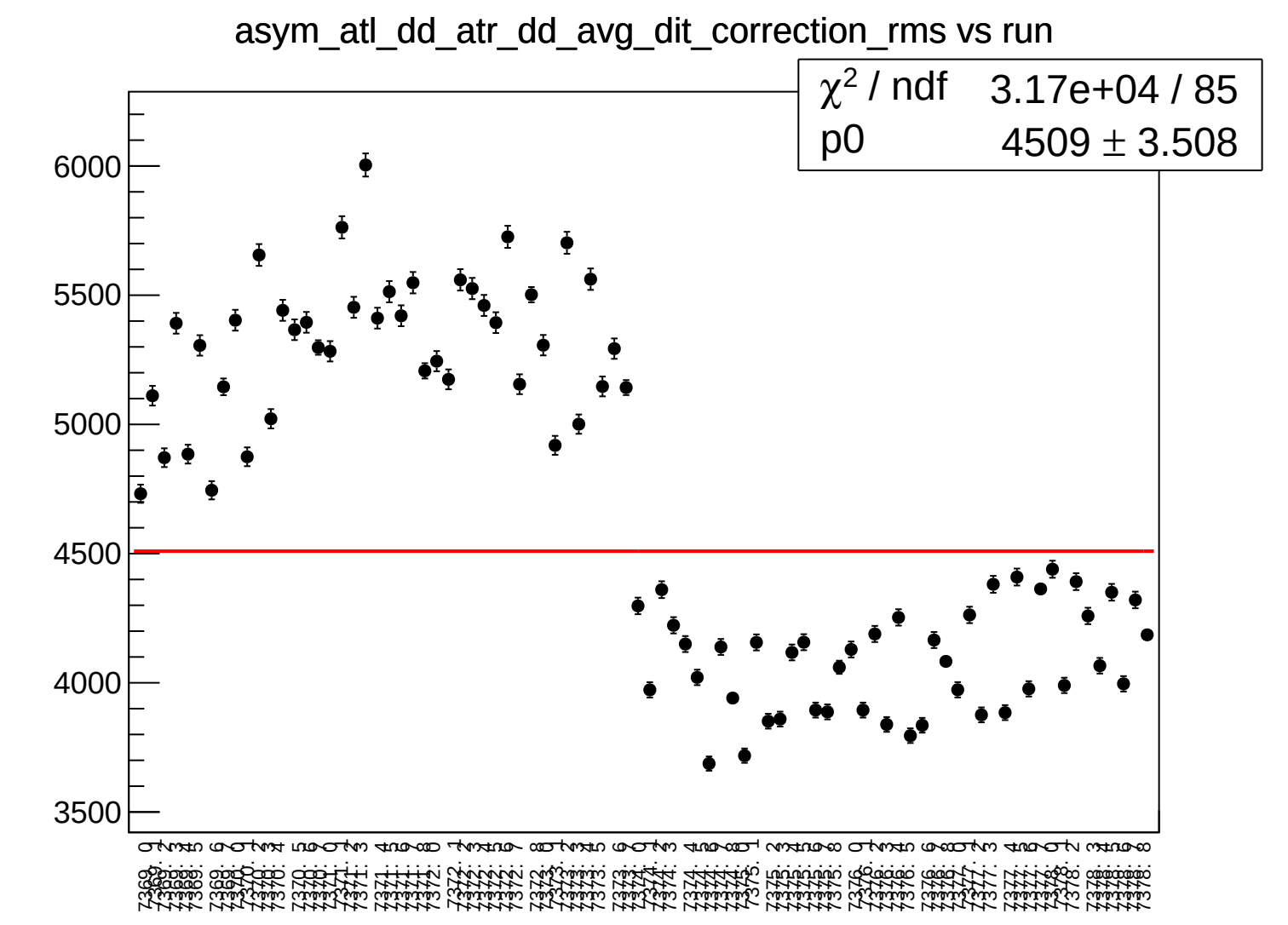

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.371e+04 / 85
p0 4062 ± 3.162
5500
5000
4500
4000
3500

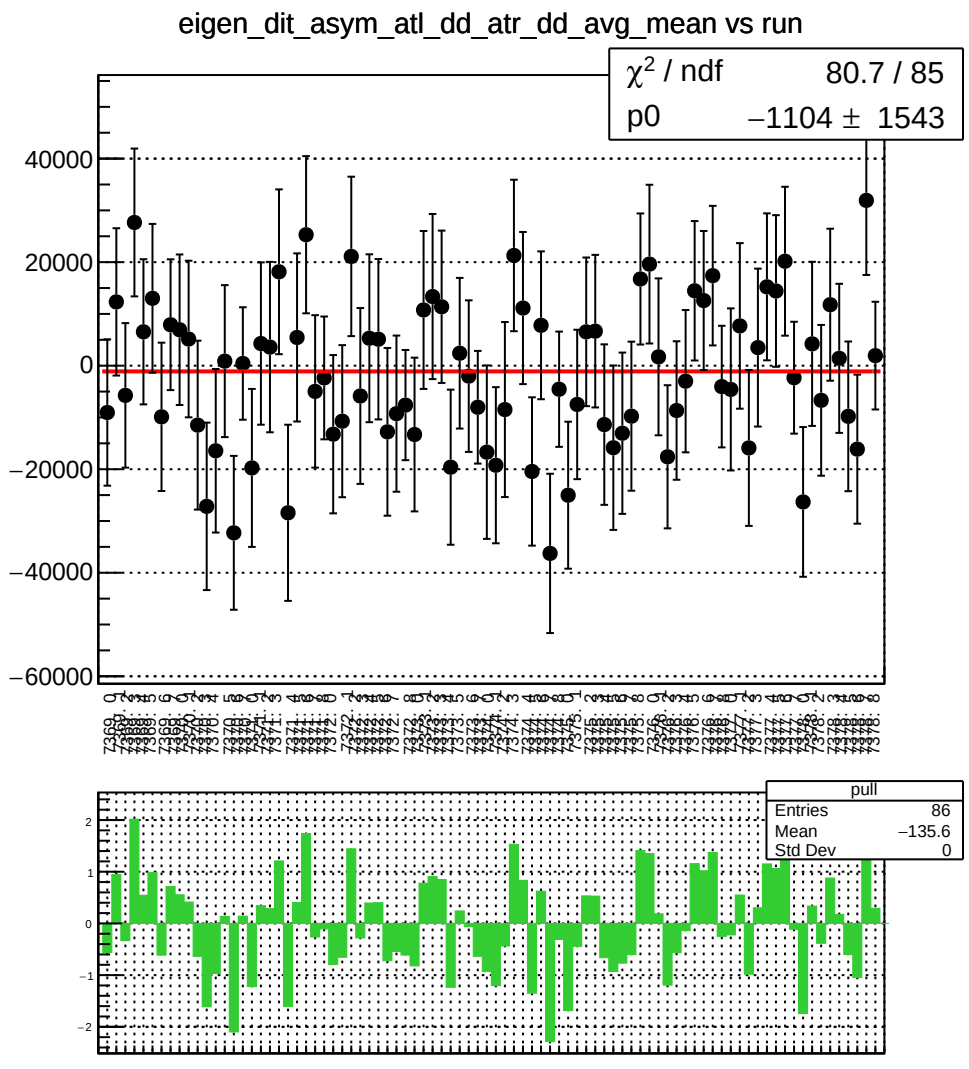

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 80.7 / 85
p0 −1104 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −135.6
Std Dev 0
2
1
0
−1
−2

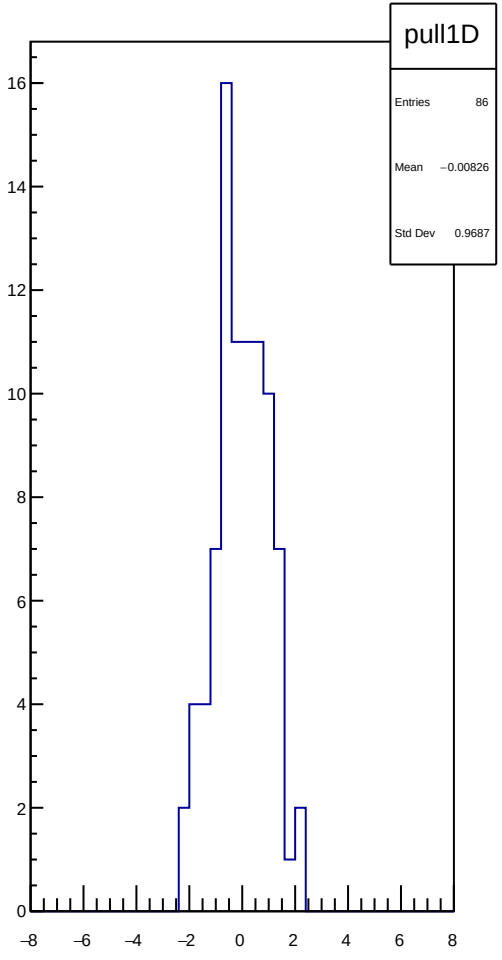

pull1D
Entries 86
Mean −0.00826
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

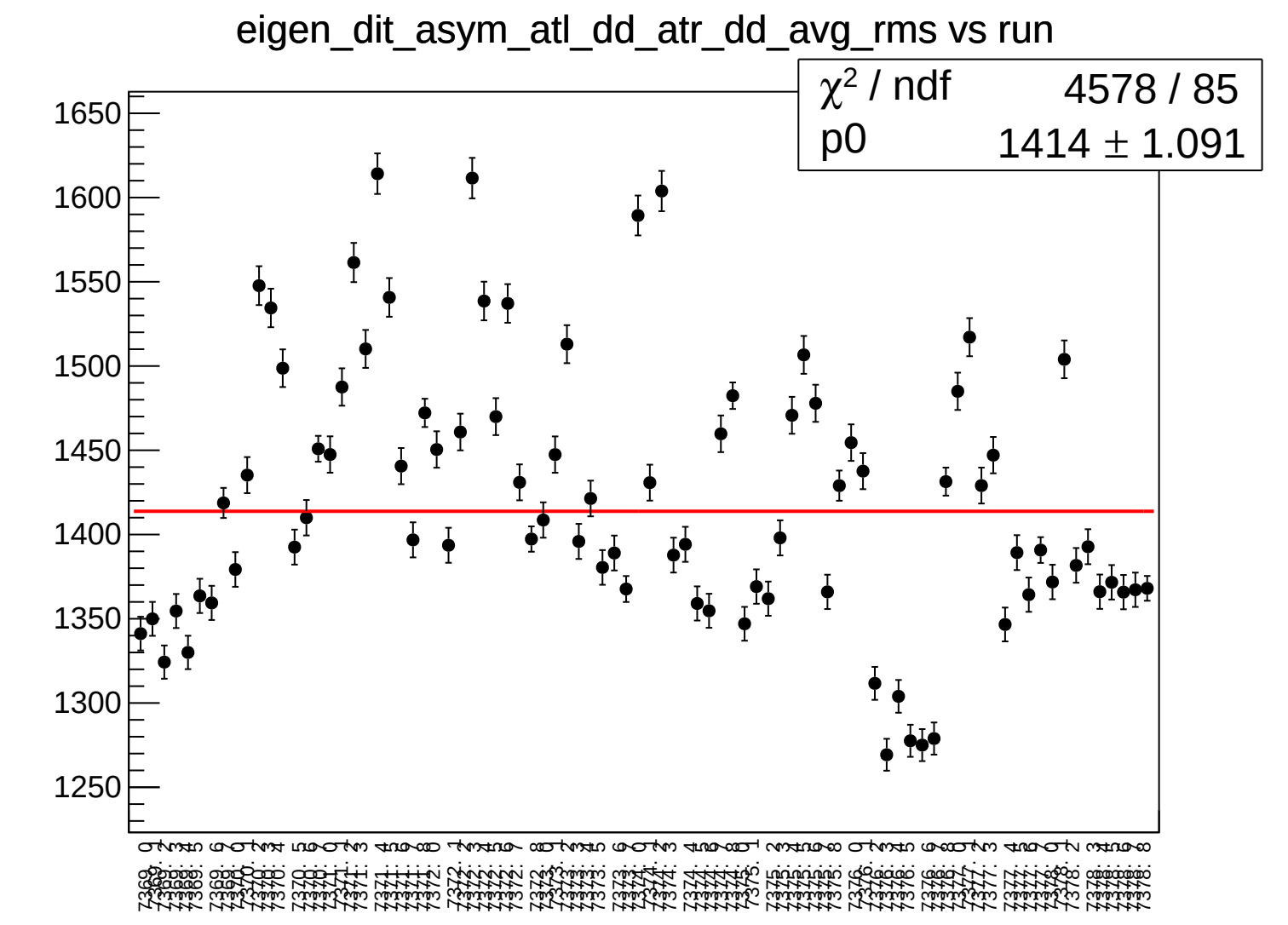

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4578 / 85
p0 1414 ± 1.091
1650
1600
1550
1500
1450
1400
1350
1300
1250

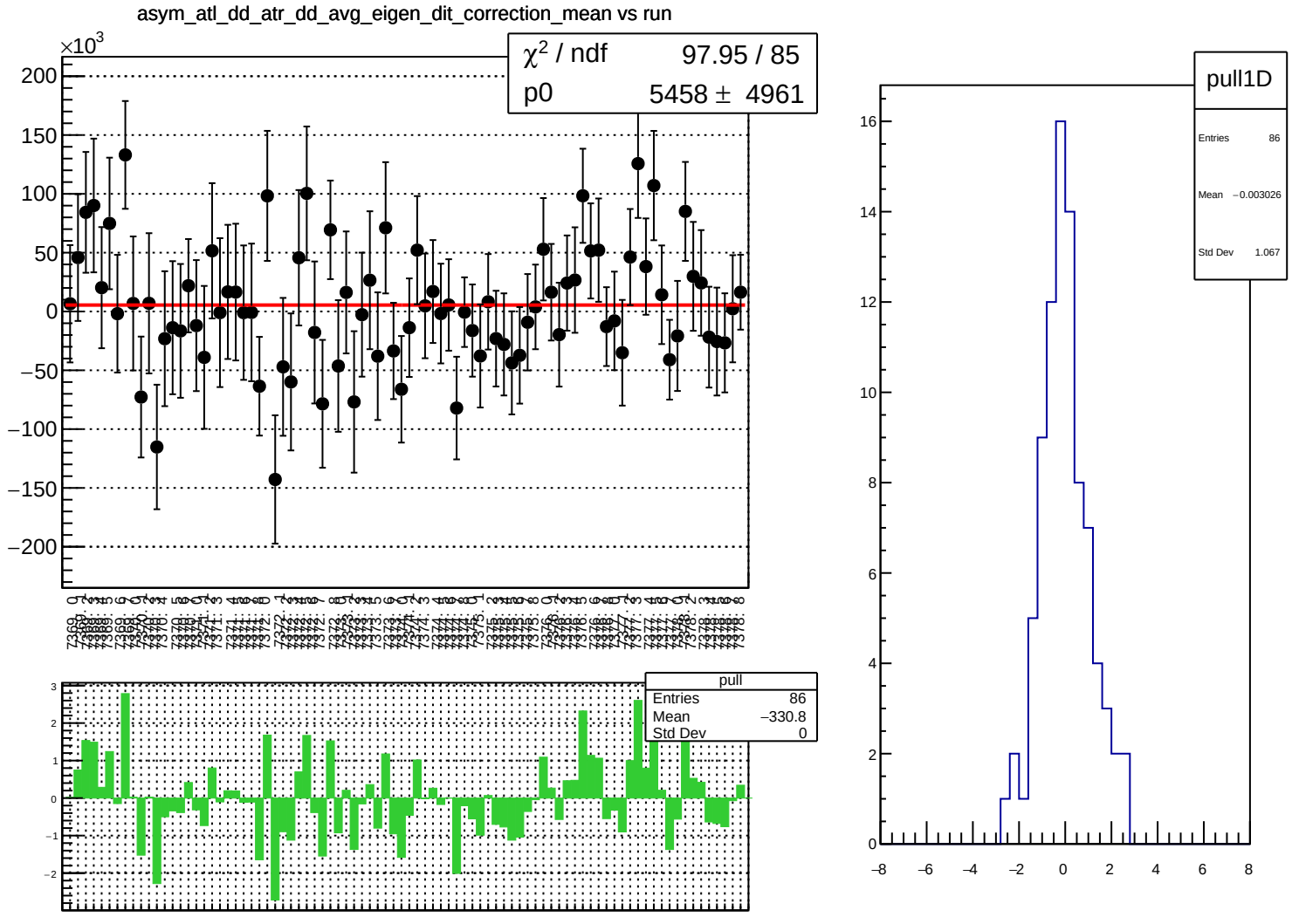

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.95 / 85
p0 5458 ± 4961
pull
Entries 86
Mean −330.8
Std Dev 0
pull1D
Entries 86
Mean −0.003027
Std Dev 1.067

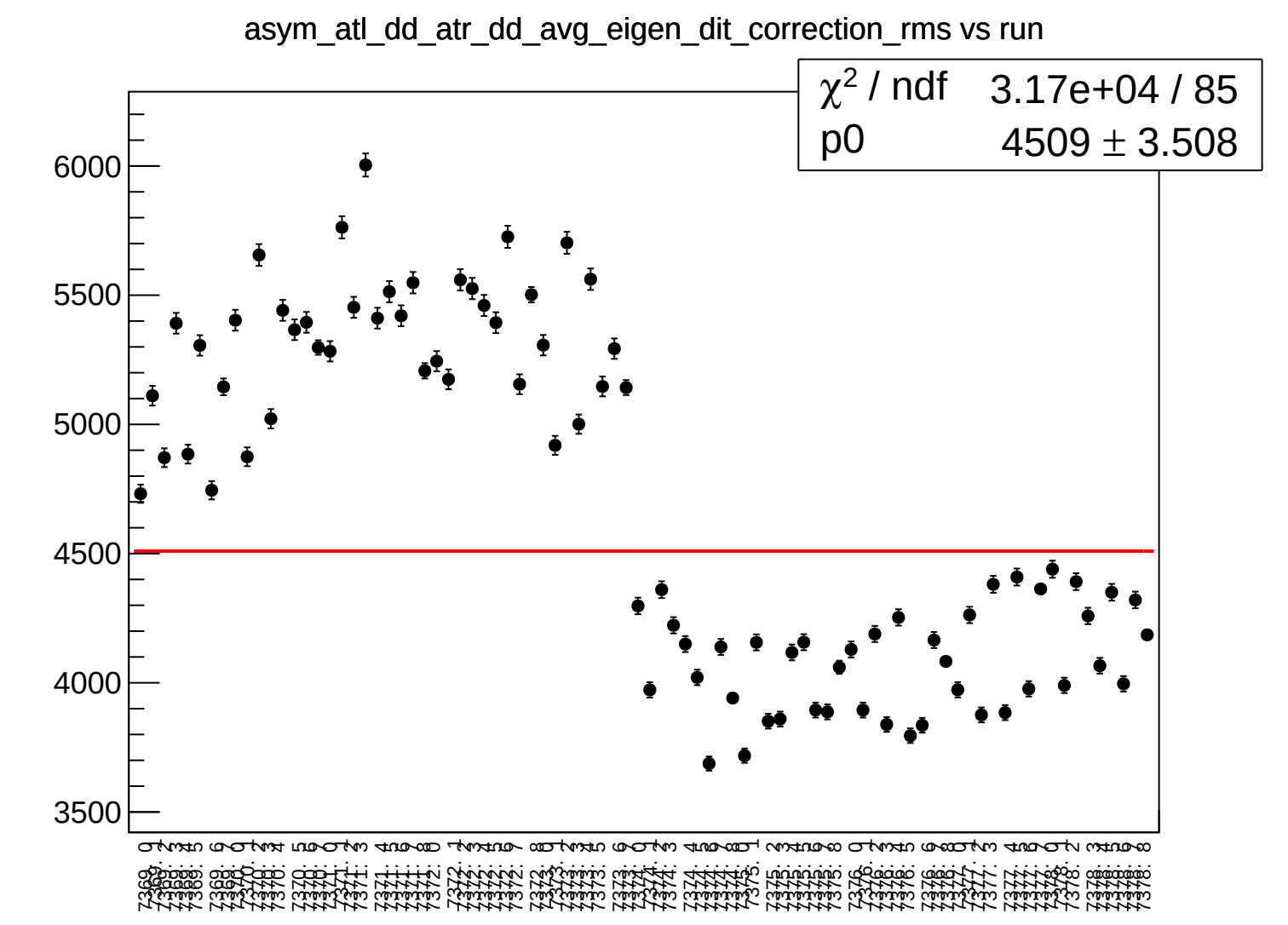

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3.17e+04 / 85
p0 4509 ± 3.508
6000
5500
5000
4500
4000
3500

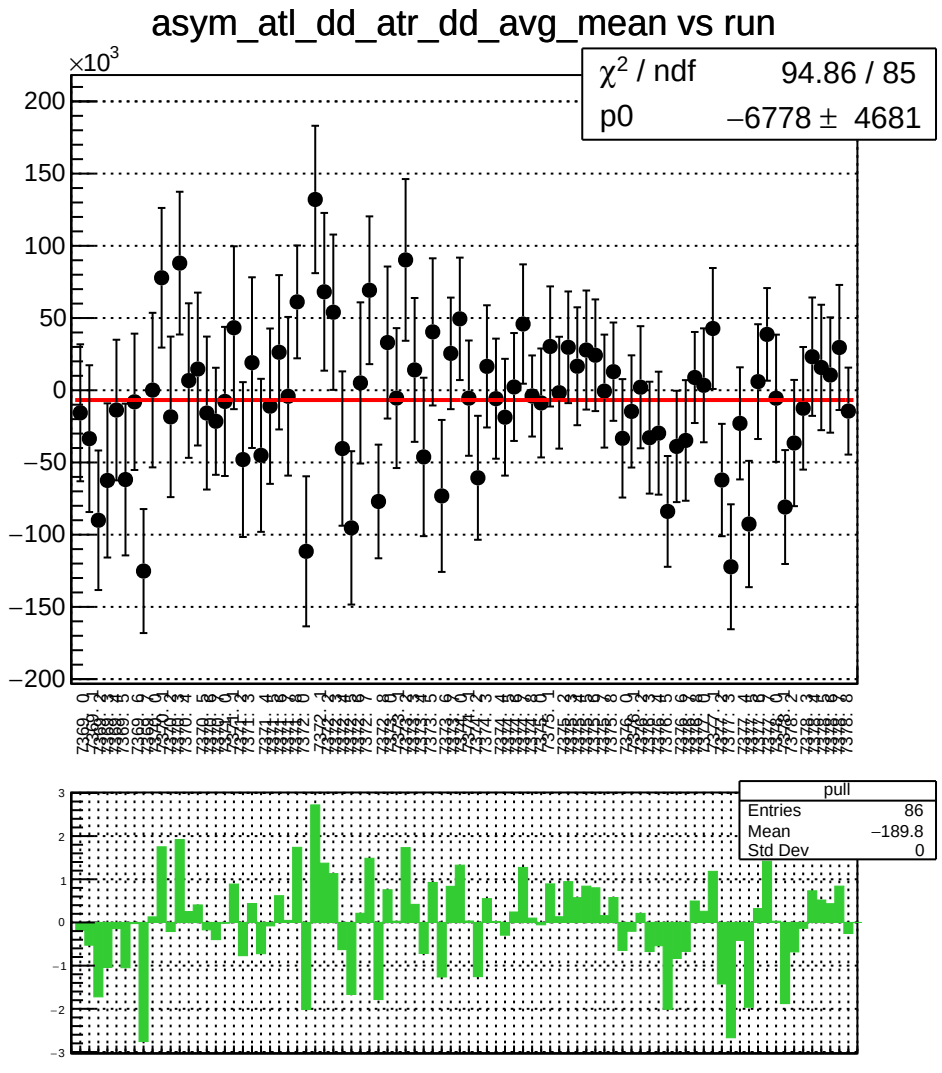

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 80.7 / 85
p0 −1104 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −135.6
Std Dev 0
2
1
0
−1
−2

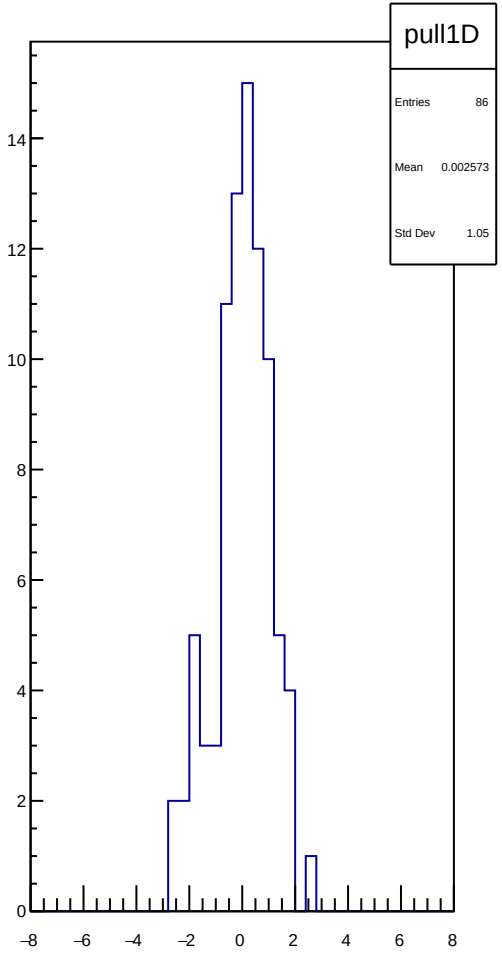

pull1D
Entries 86
Mean −0.00826
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

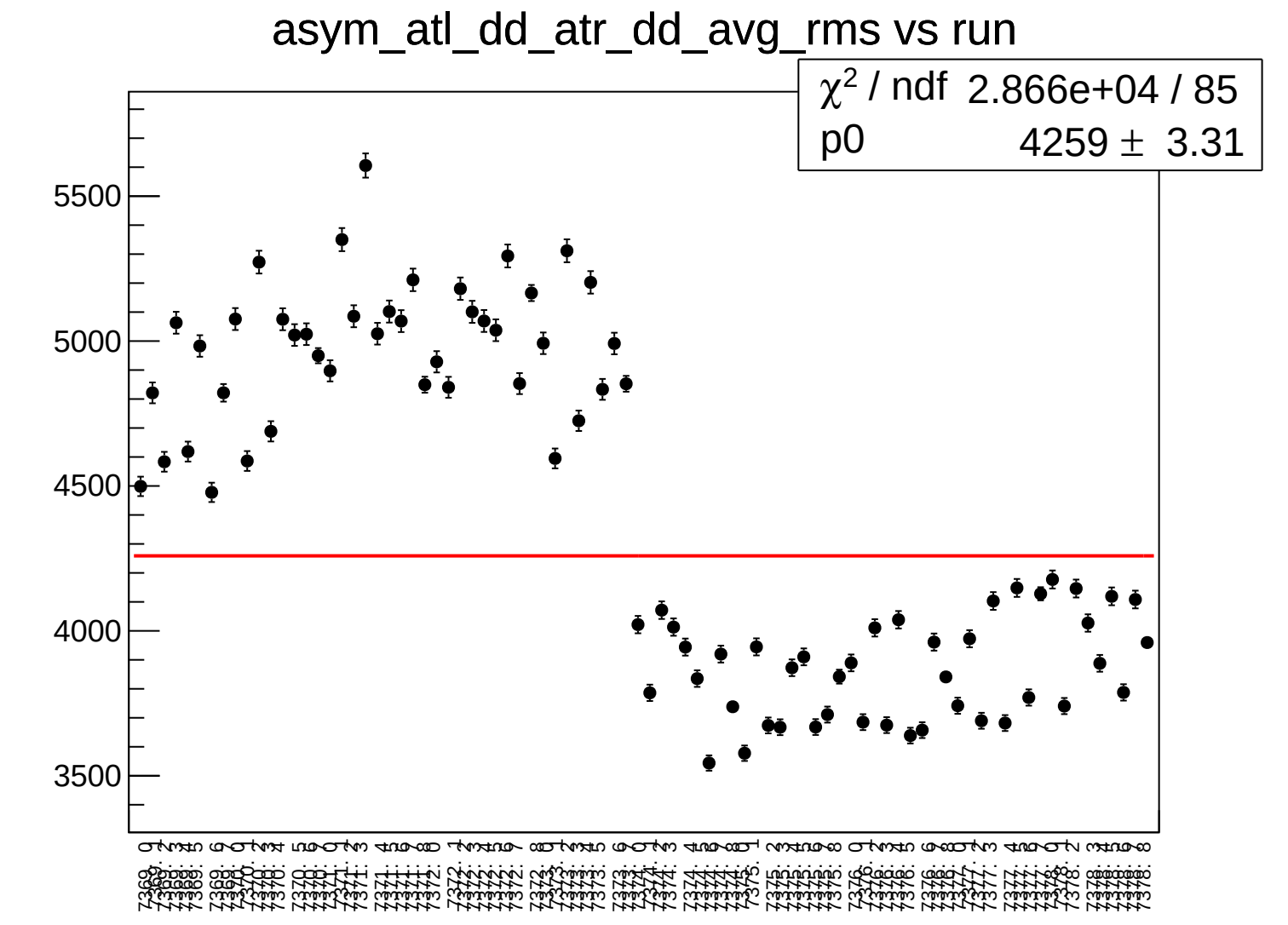

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4578 / 85
p0 1414 ± 1.091
1650
1600
1550
1500
1450
1400
1350
1300
1250

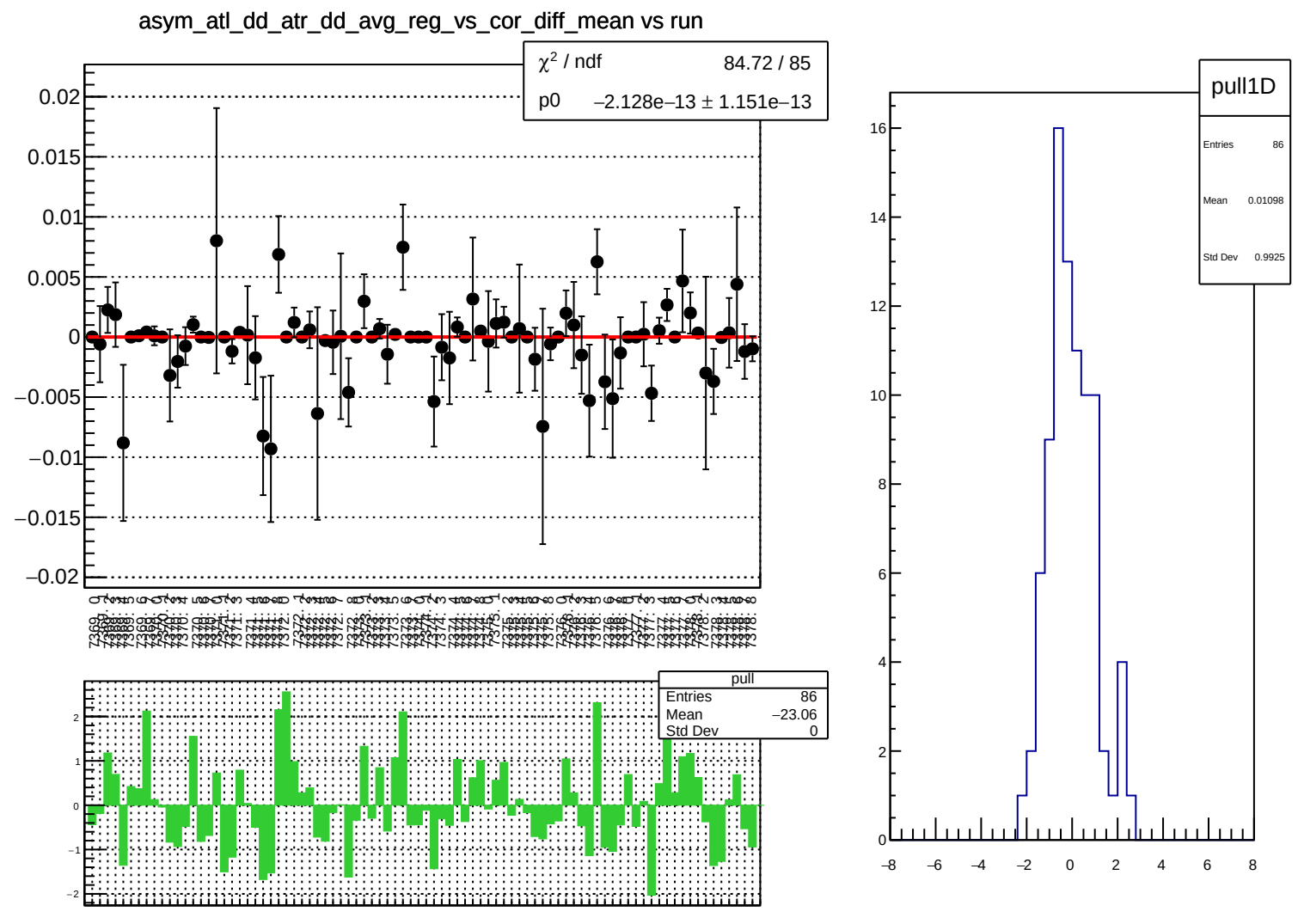

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.95 / 85
p0 5458 ± 4961
pull
Entries 86
Mean −330.8
Std Dev 0
pull1D
Entries 86
Mean −0.003026
Std Dev 1.067

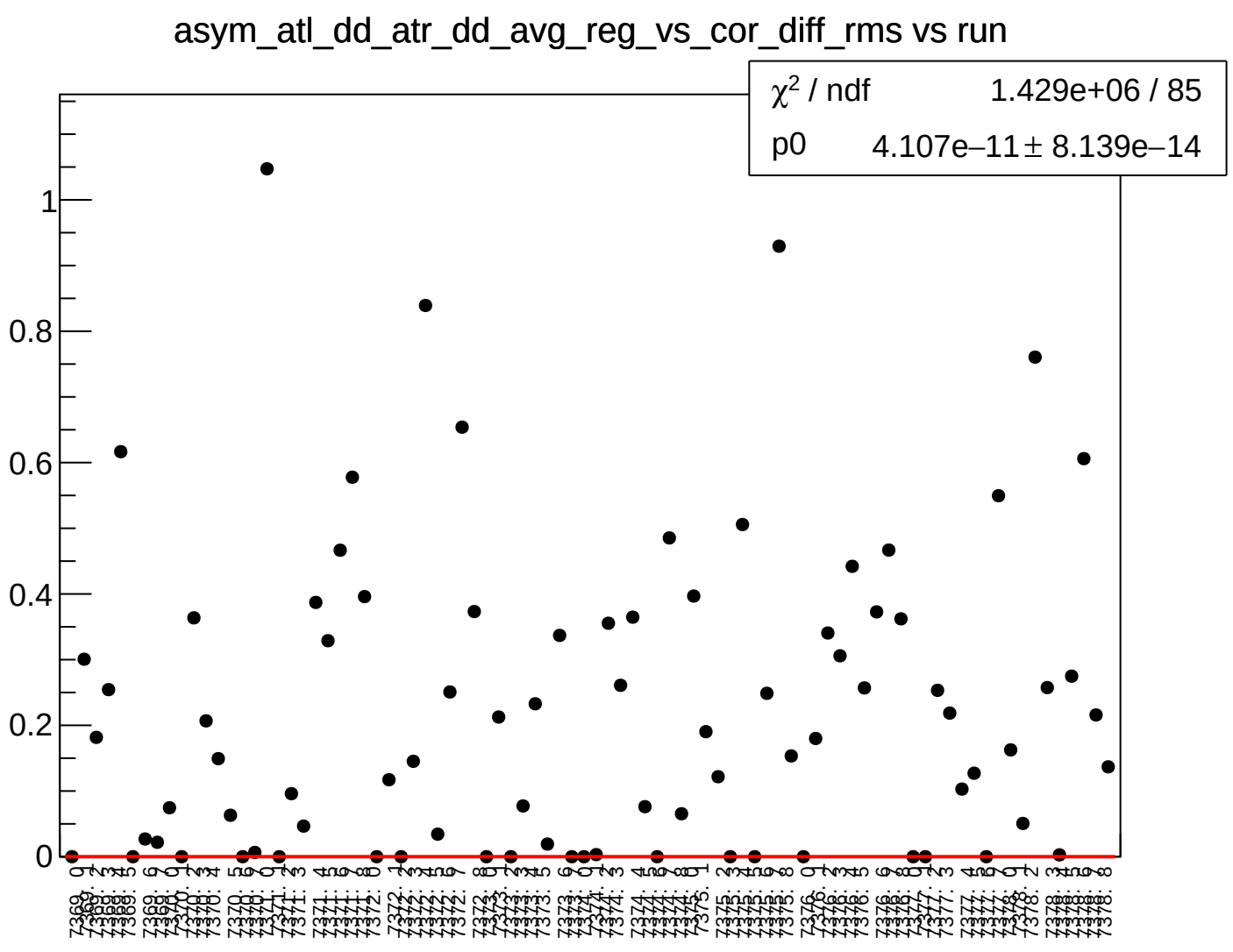

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.17e+04 / 85
p0 4509 ± 3.508
6000
5500
5000
4500
4000
3500

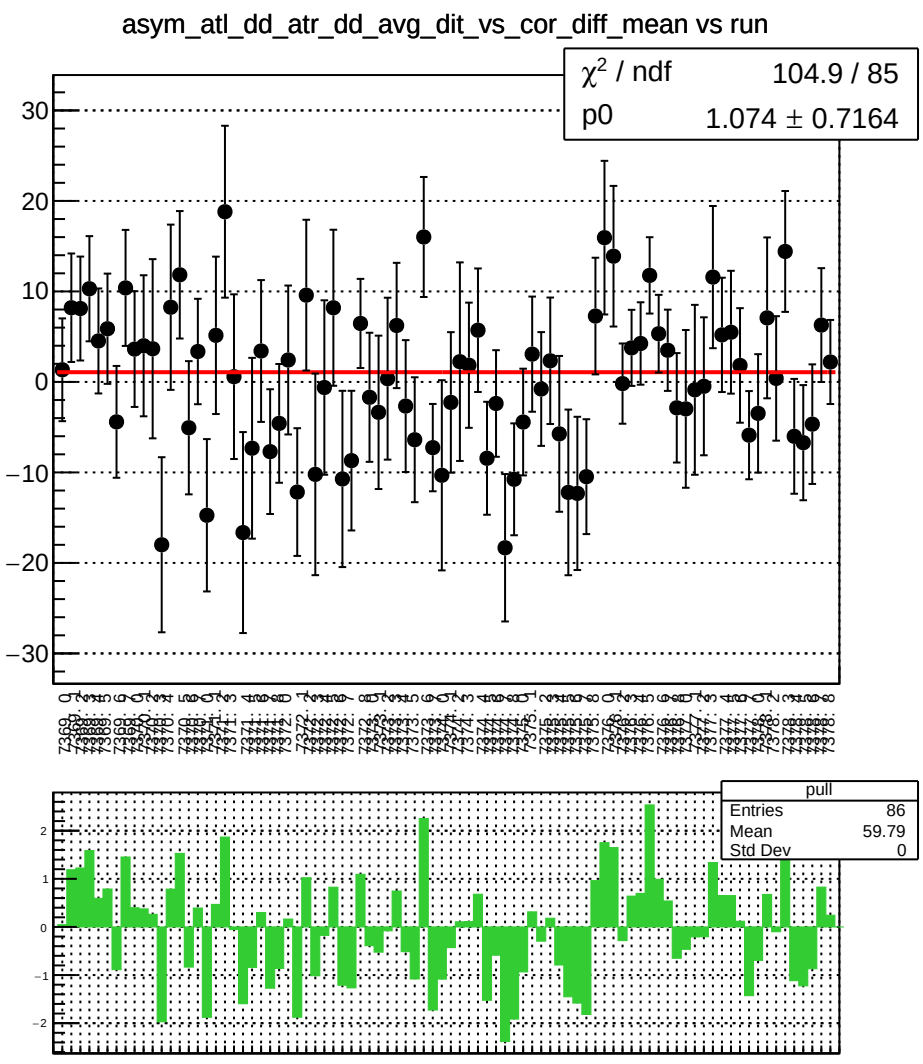

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 94.86 / 85
p0 −6778 ± 4681
pull
Entries 86
Mean −189.8
Std Dev 0

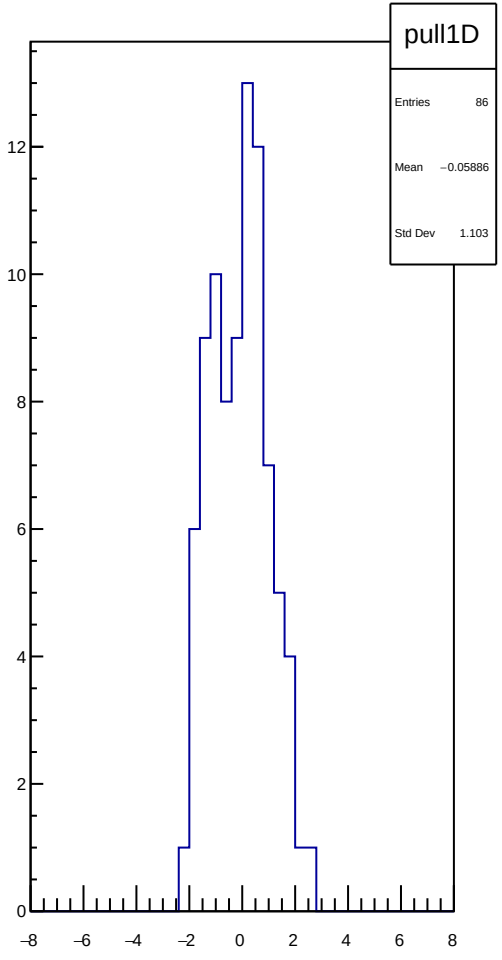

pull1D
Entries 86
Mean 0.002573
Std Dev 1.05

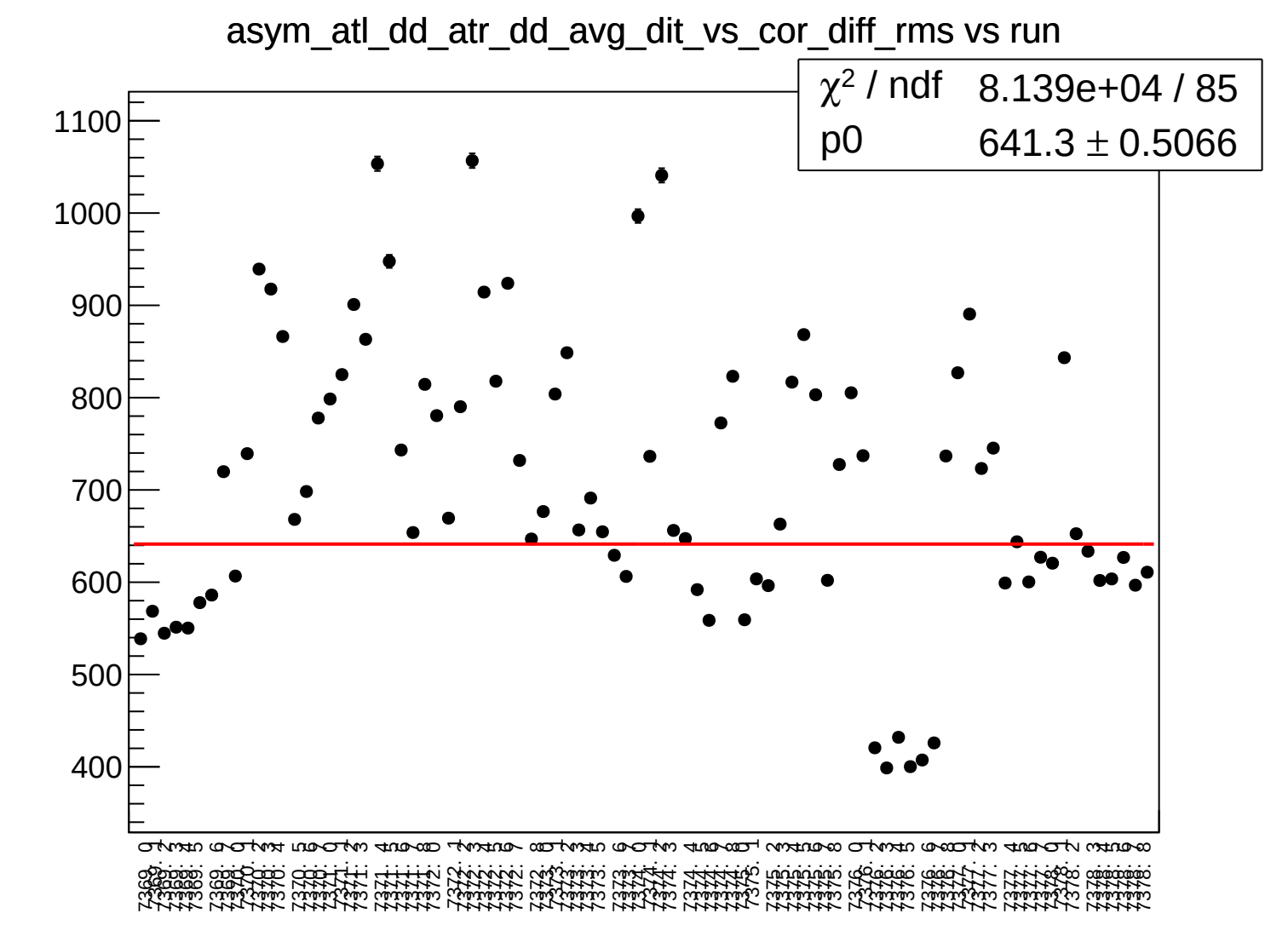

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.866e+04 / 85
p0 4259 ± 3.31
5500
5000
4500
4000
3500

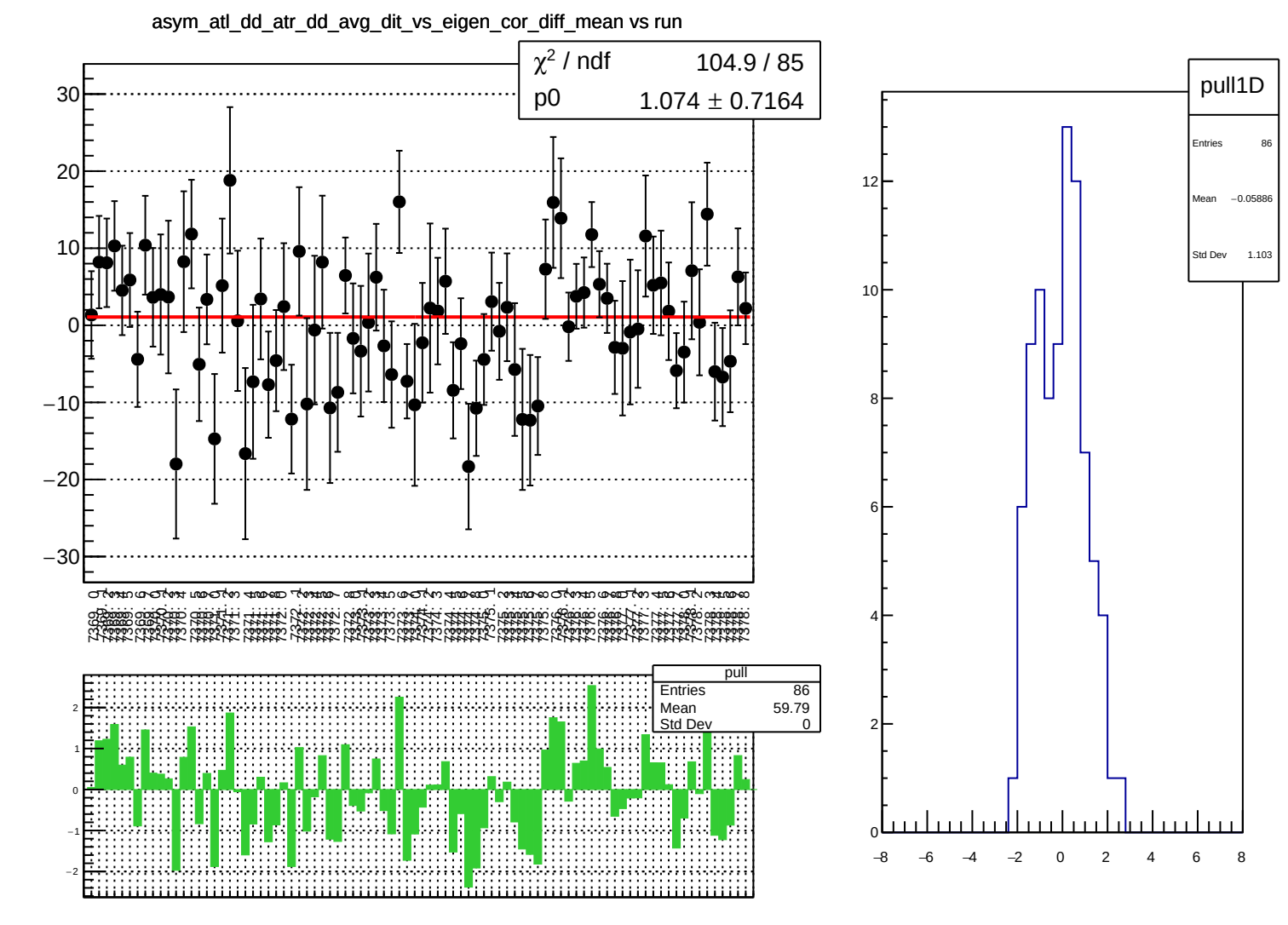

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.72 / 85
p0 −2.128e−13 ± 1.151e−13
pull
Entries 86
Mean −23.06
Std Dev 0
pull1D
Entries 86
Mean 0.01098
Std Dev 0.9925

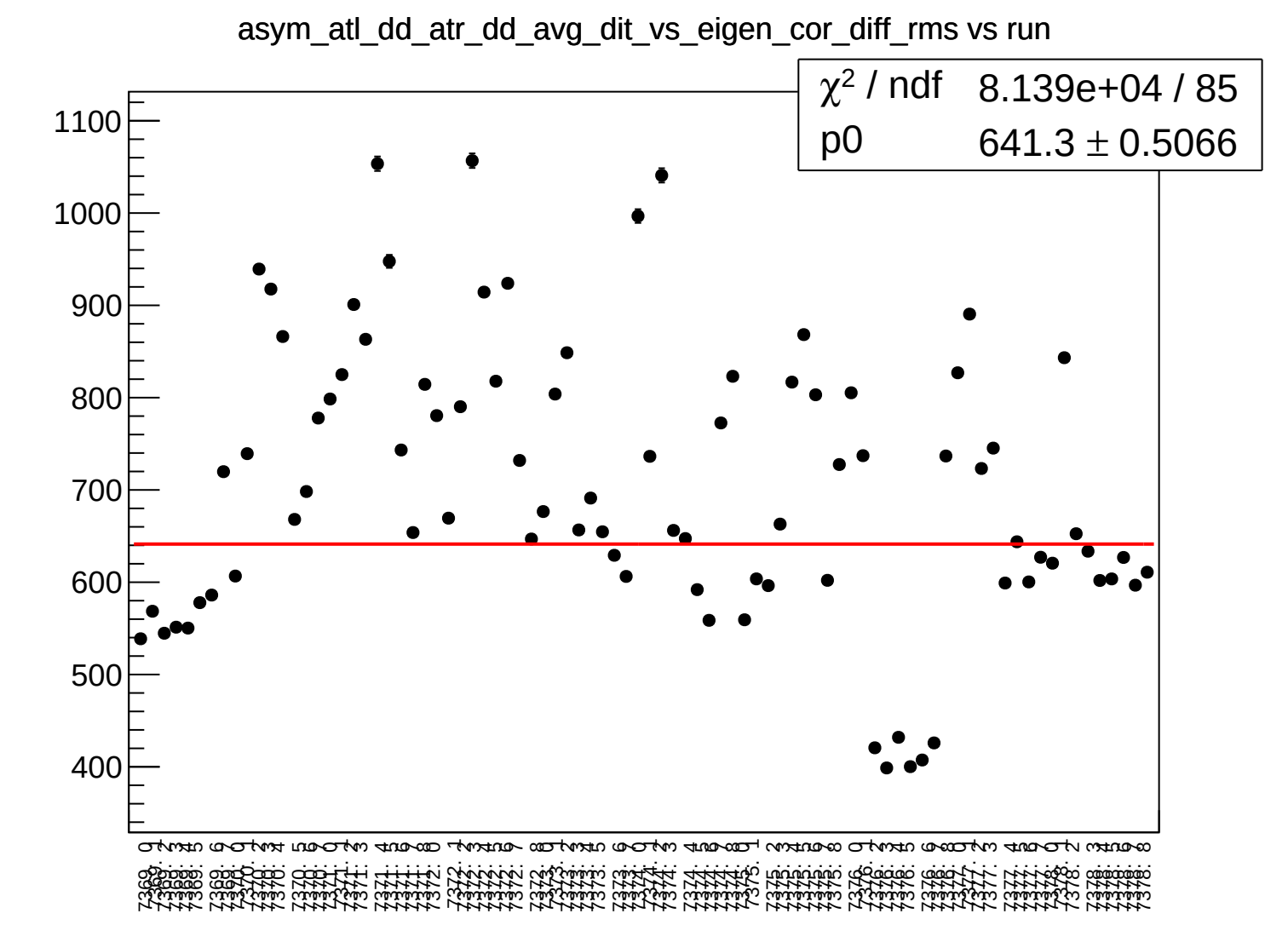

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.429e+06 / 85
p0 4.107e−11 ± 8.139e−14
1
0.8
0.6
0.4
0.2
0

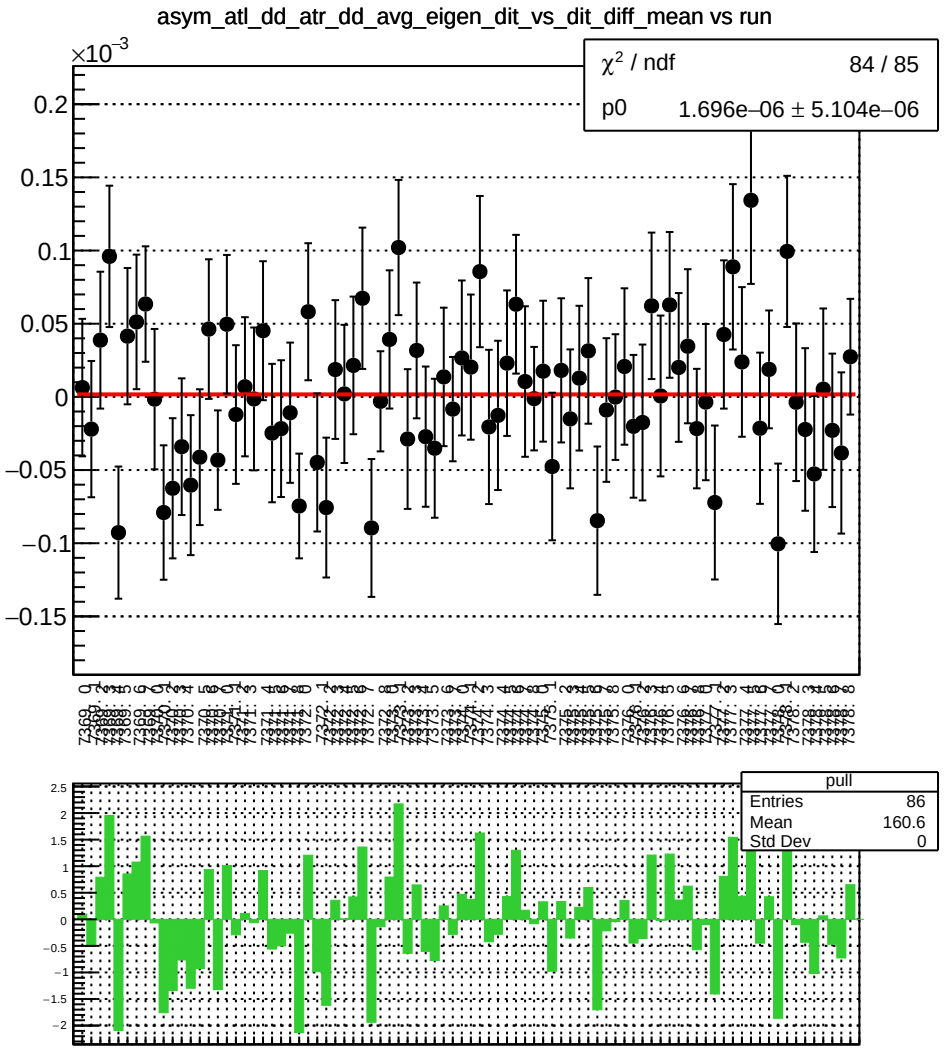

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 85
p0 1.074 ± 0.7164
pull
Entries 86
Mean 59.79
Std Dev 0

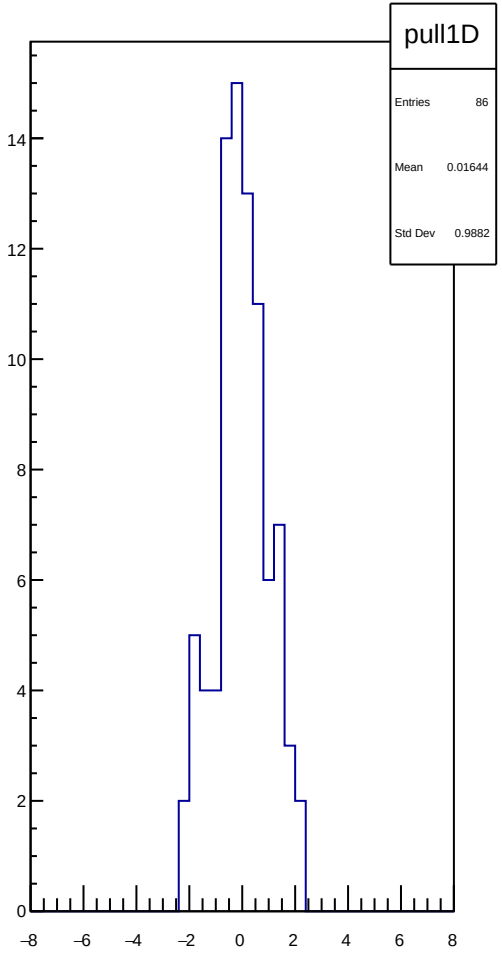

pull1D
Entries 86
Mean −0.05886
Std Dev 1.103

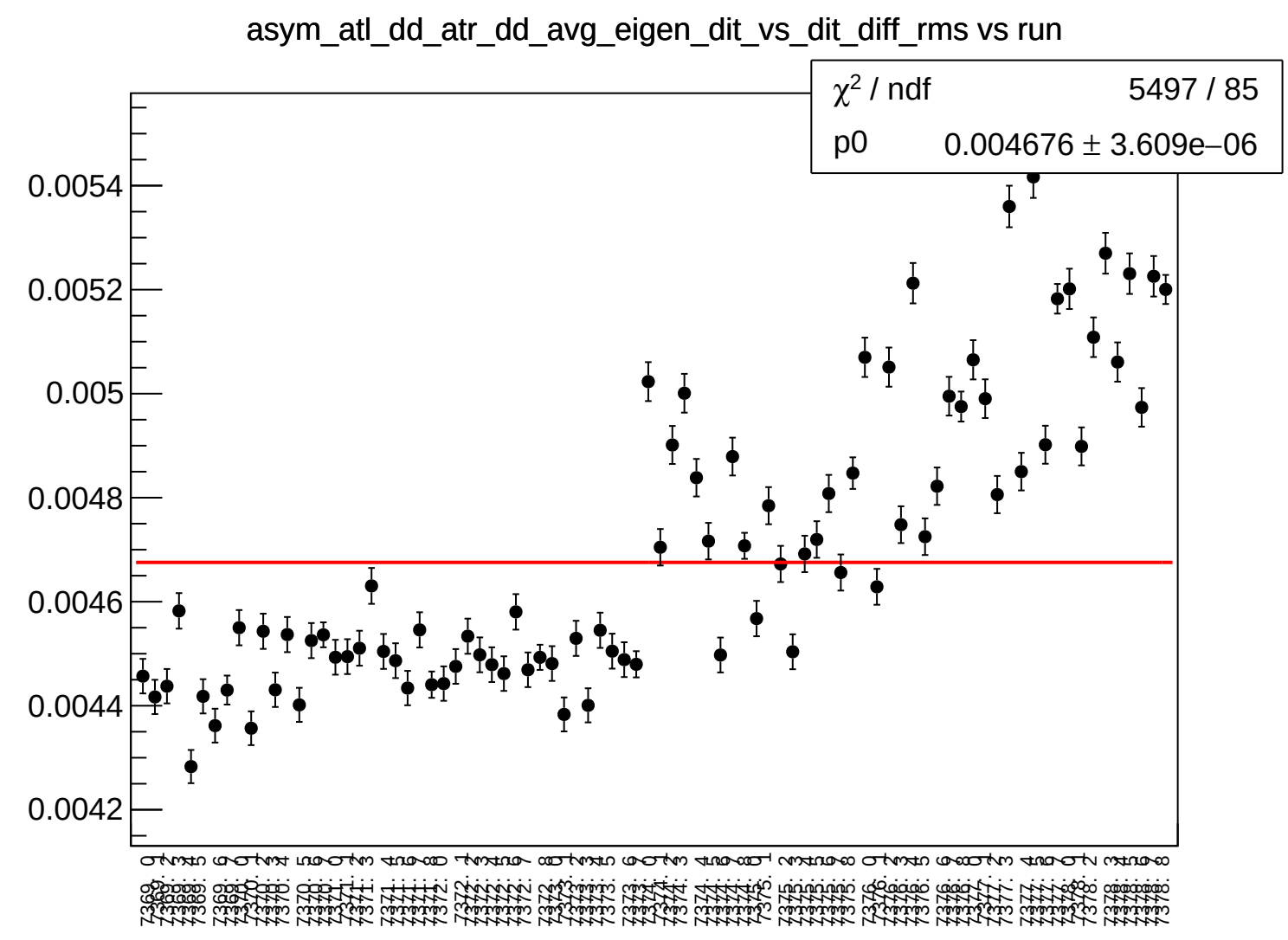

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400


asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 85
p0 1.074 ± 0.7164
pull
Entries 86
Mean 59.79
Std Dev 0
pull1D
Entries 86
Mean −0.05886
Std Dev 1.103

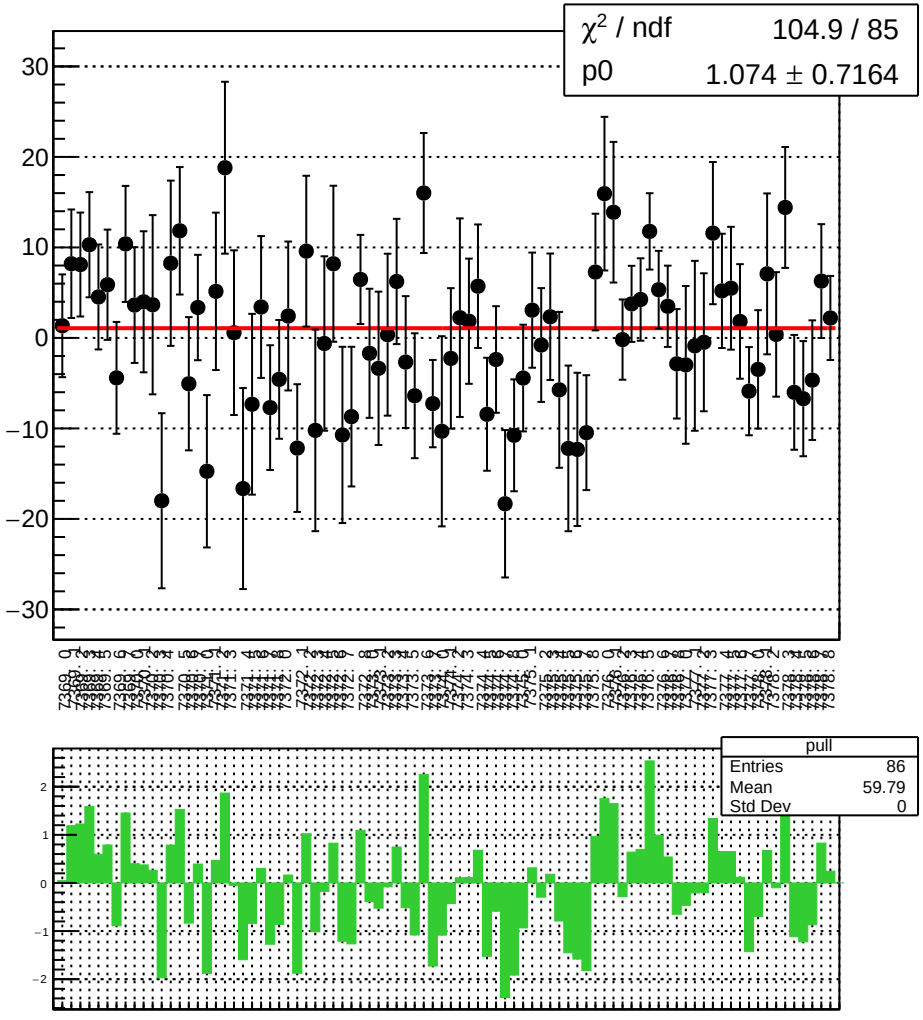

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400

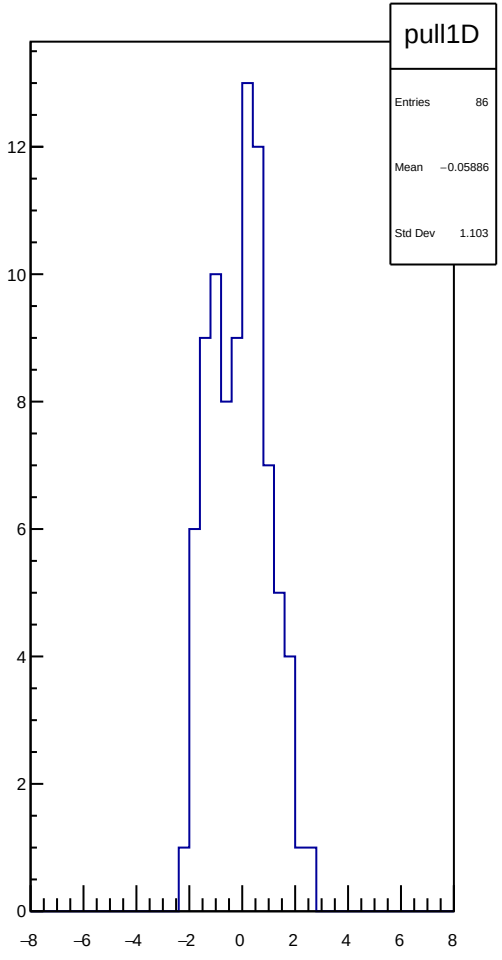

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84 / 85
p0 1.696e−06 ± 5.104e−06
pull
Entries 86
Mean 160.6
Std Dev 0

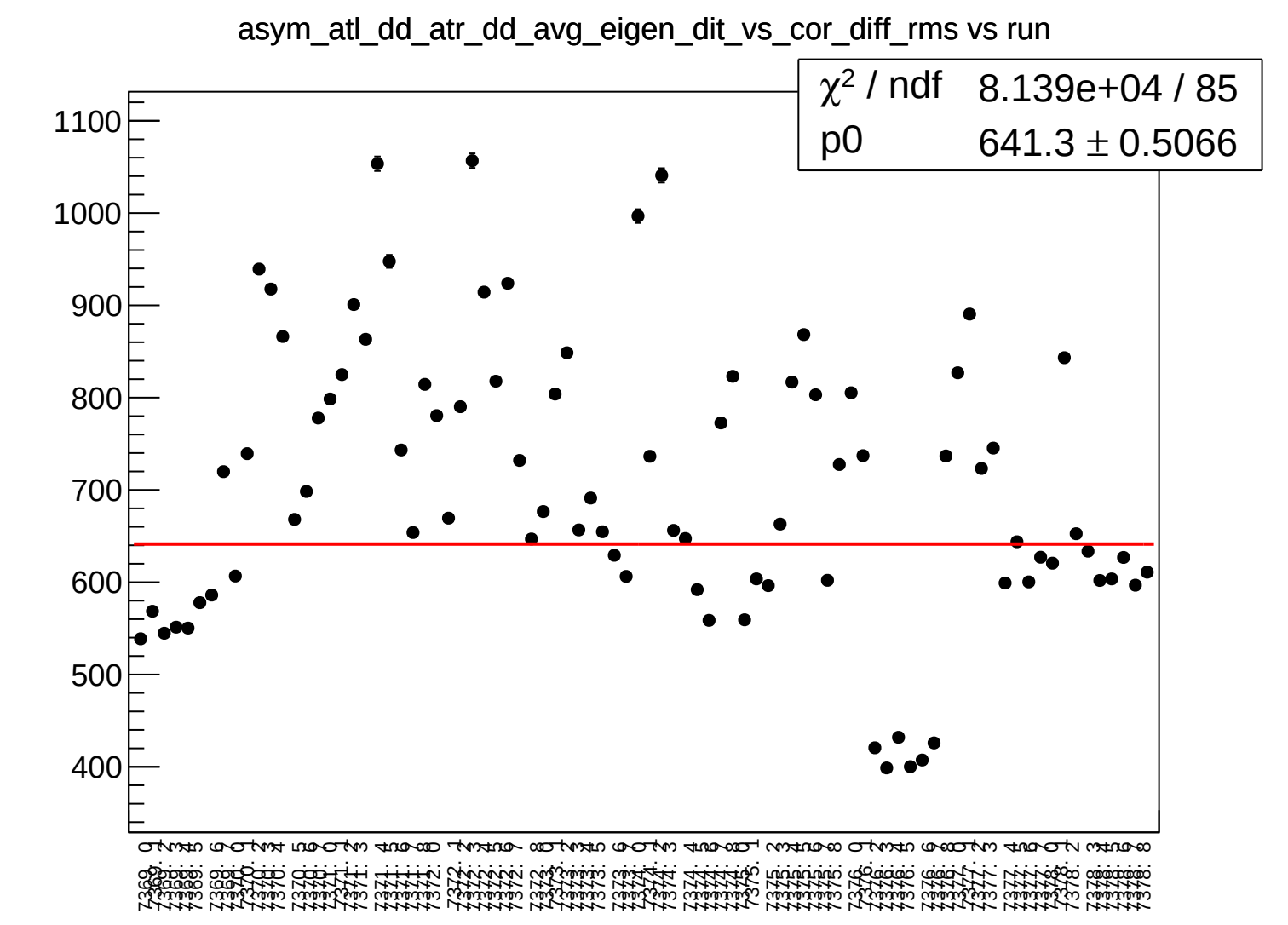

pull1D
Entries 86
Mean 0.01644
Std Dev 0.9882

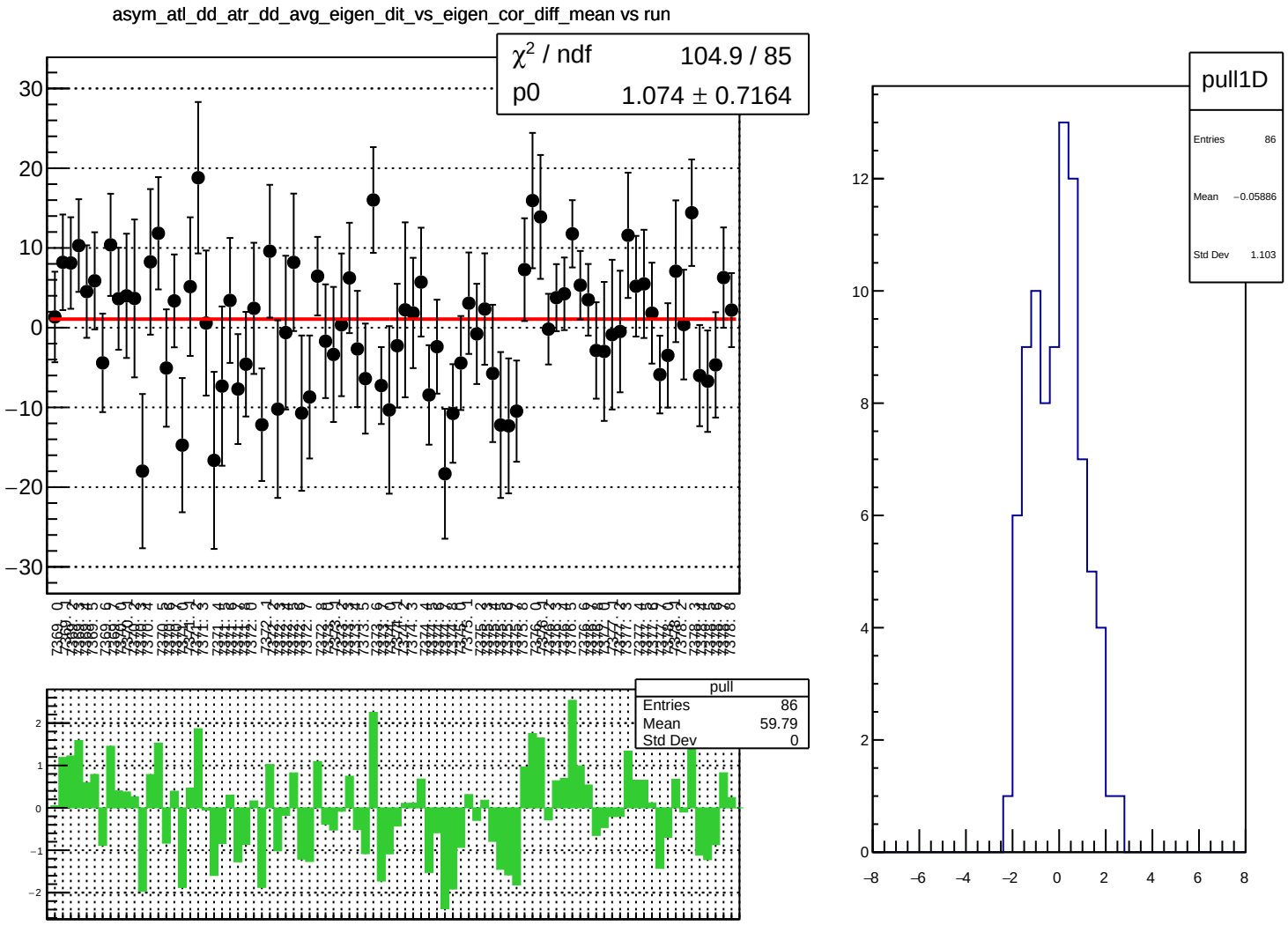

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5497 / 85
p0 0.004676 ± 3.609e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

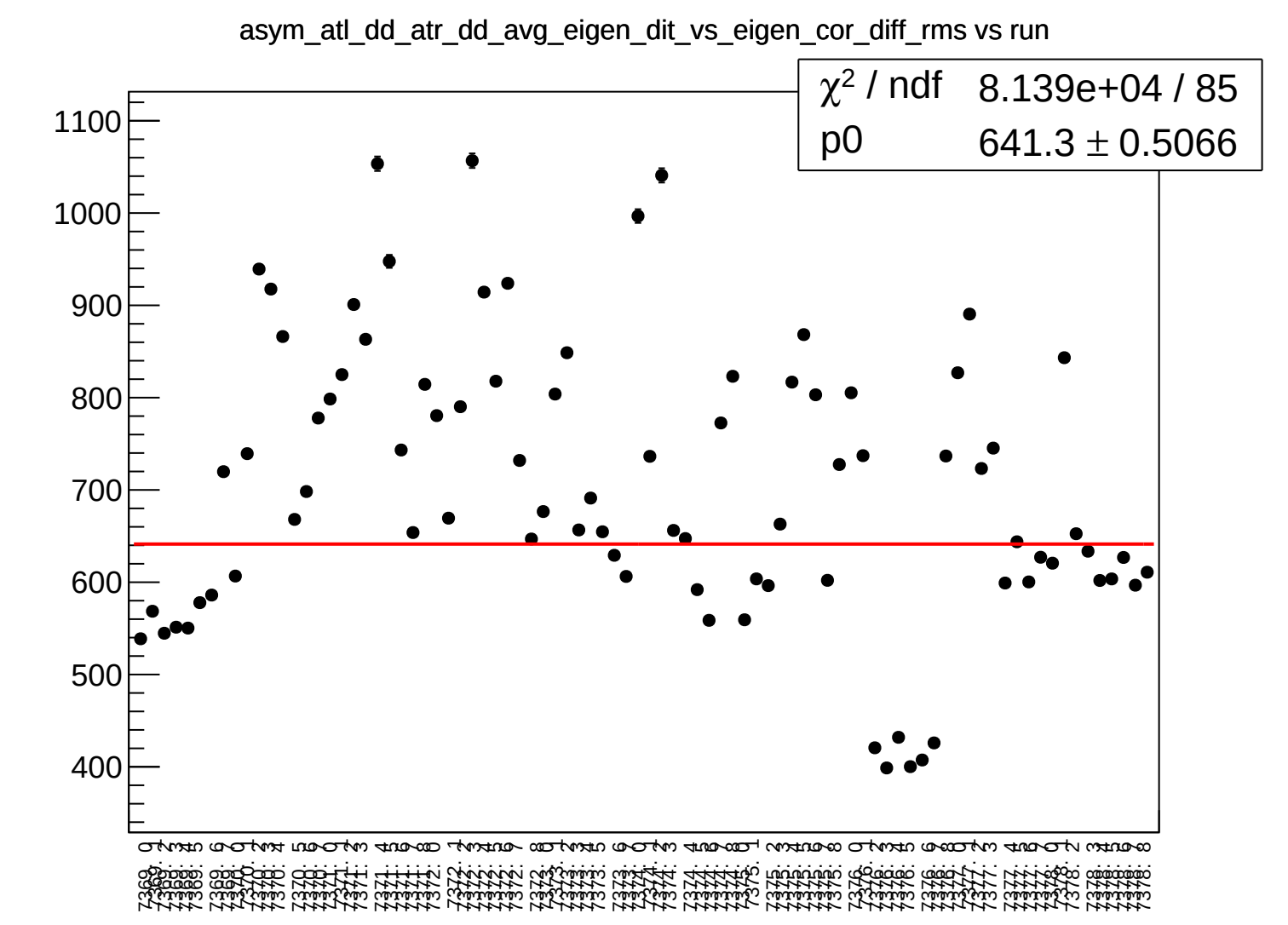
asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

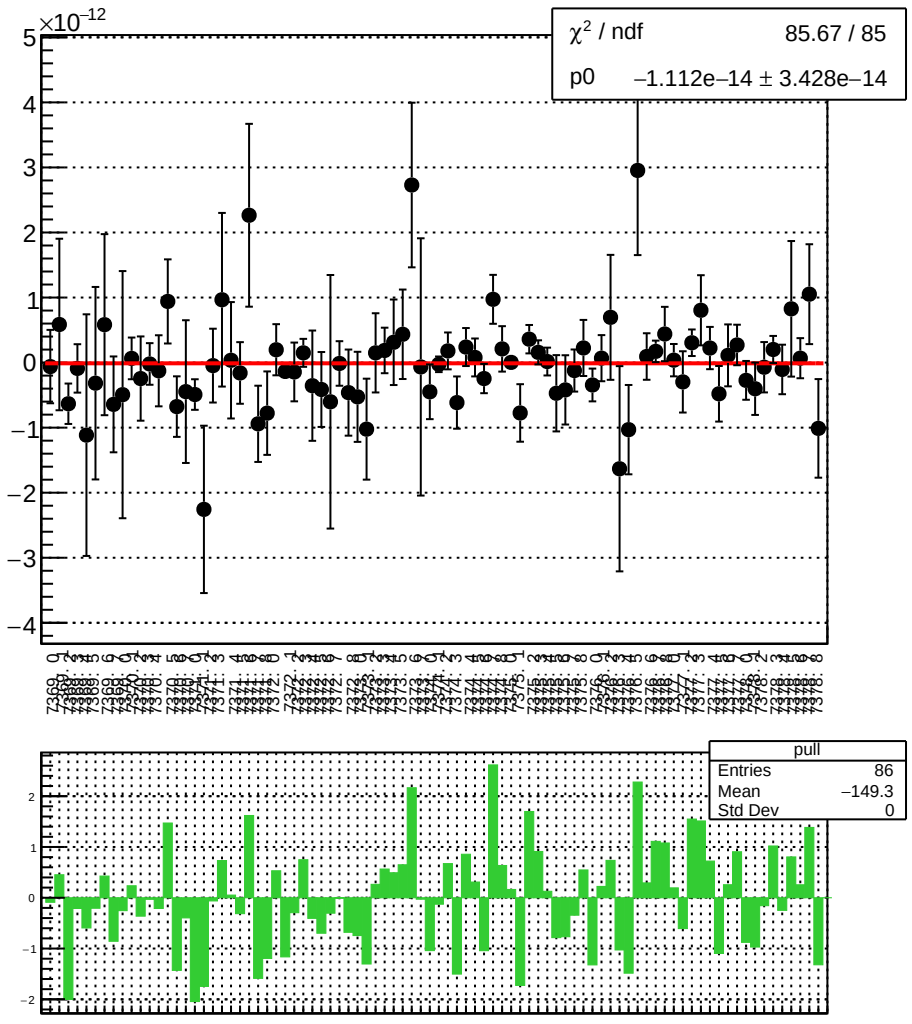


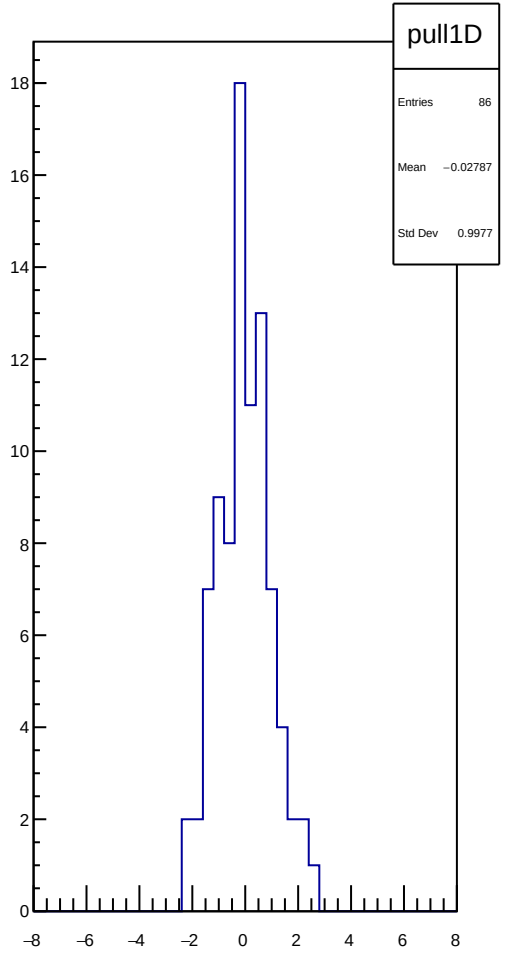


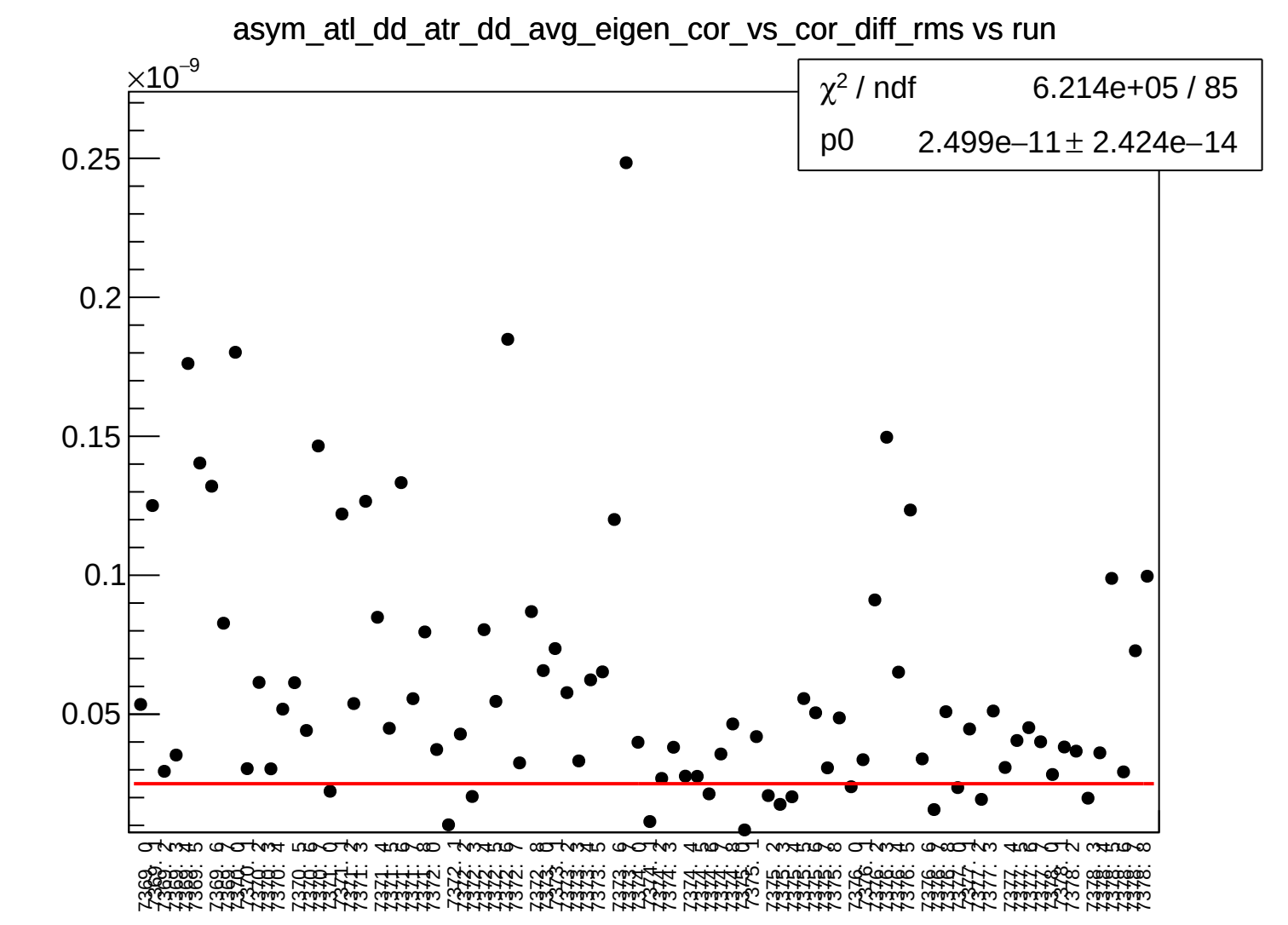

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400

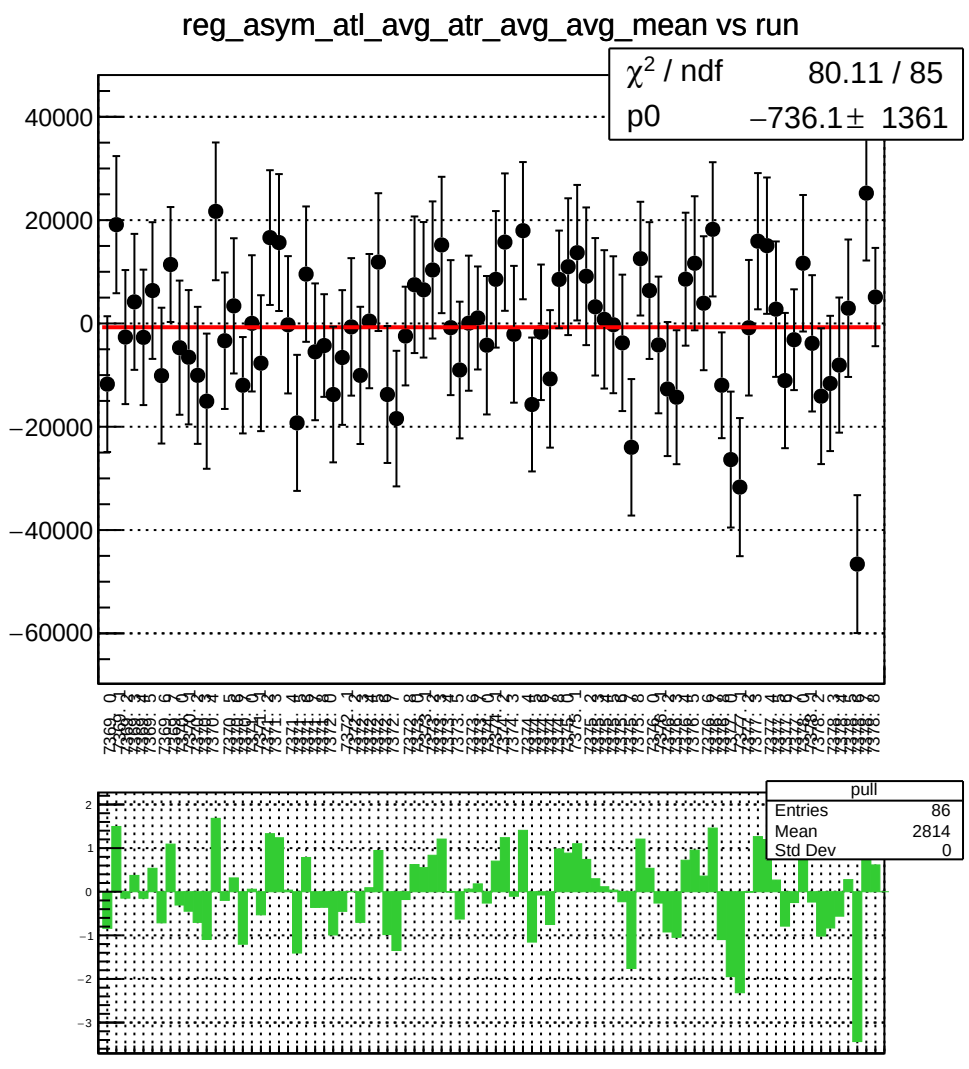

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 85
p0 1.074 ± 0.7164
pull
Entries 86
Mean 59.79
Std Dev 0
pull1D
Entries 86
Mean −0.05886
Std Dev 1.103

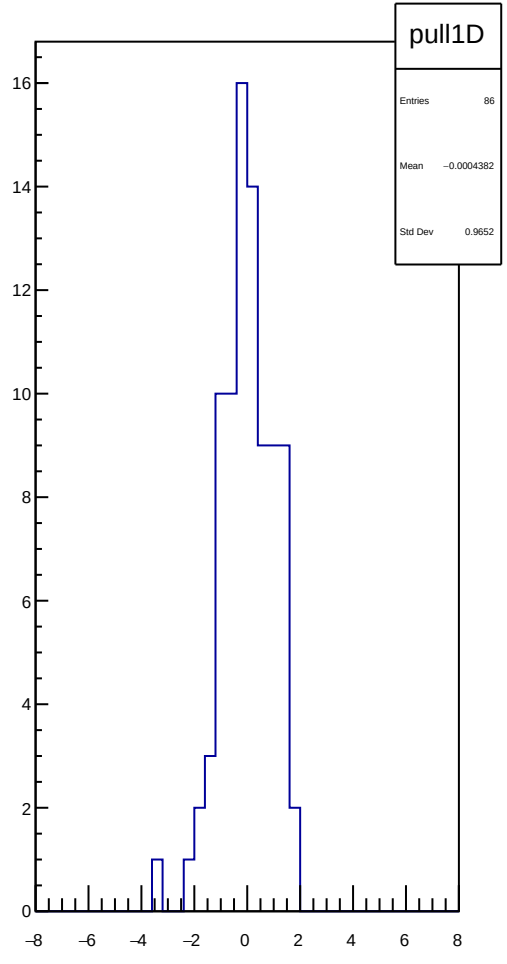

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400

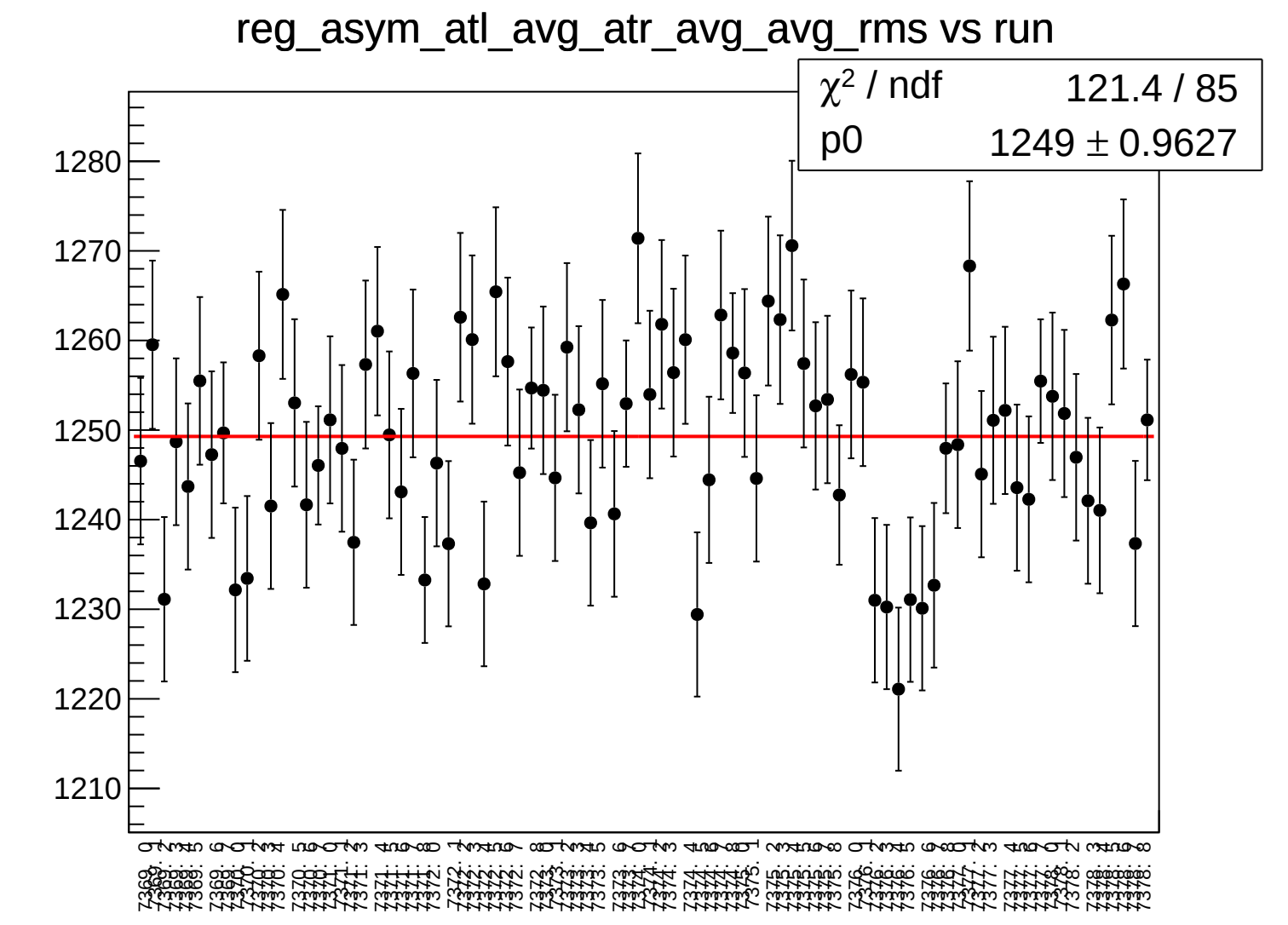

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.67 / 85
p0 −1.112e−14 ± 3.428e−14
pull
Entries 86
Mean −149.3
Std Dev 0

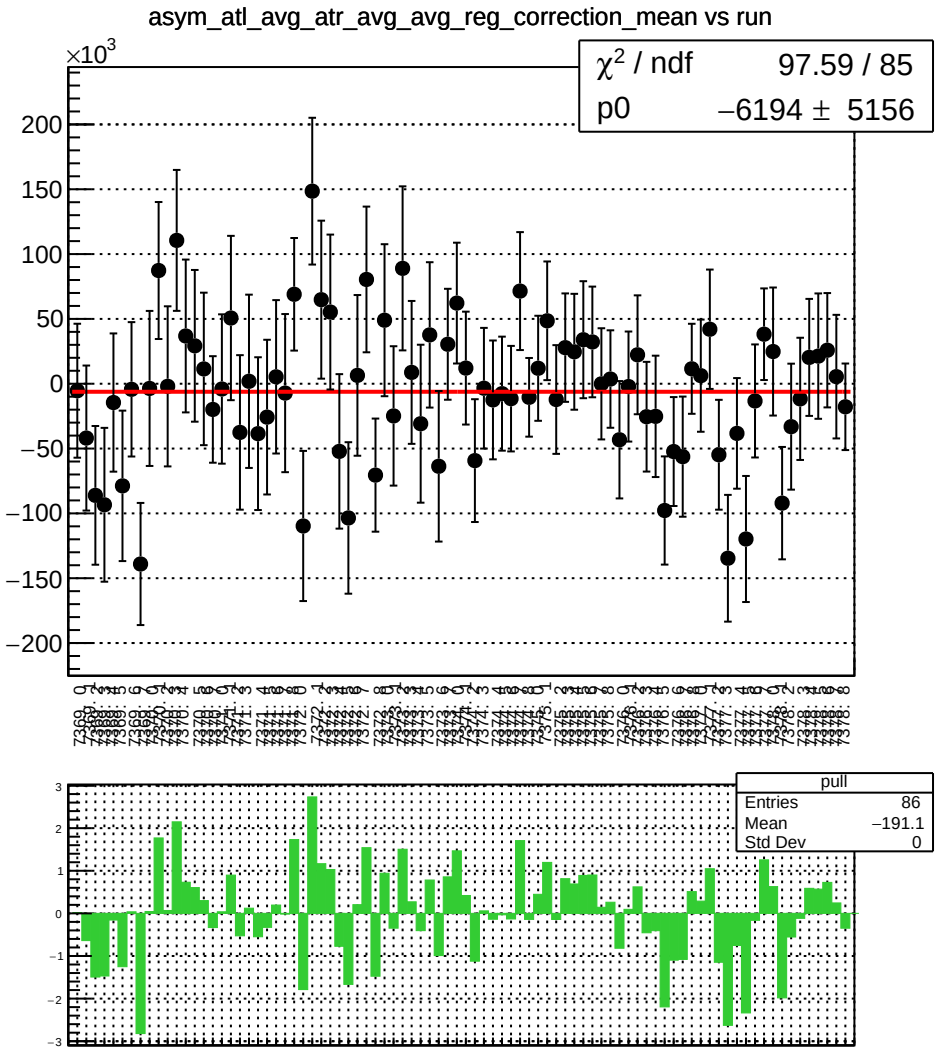

pull1D
Entries 86
Mean −0.02787
Std Dev 0.9977

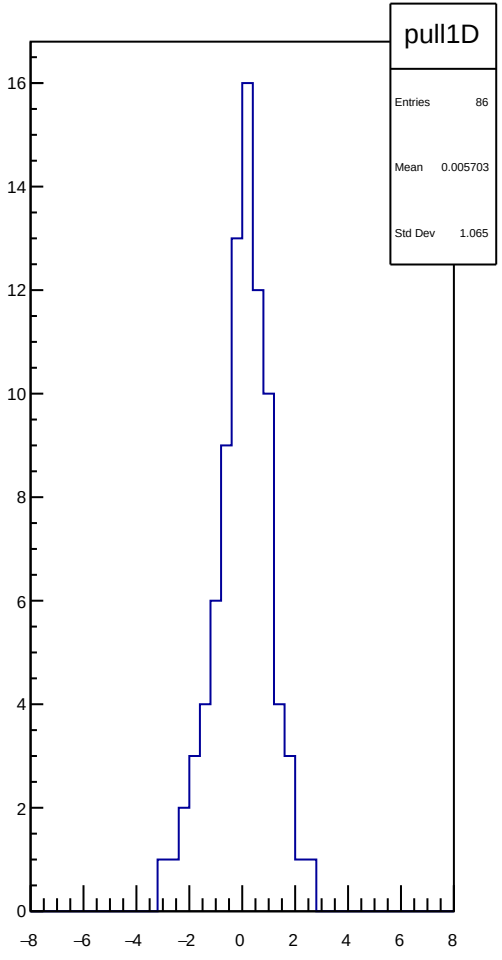

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.214e+05 / 85
p0 2.499e−11 ± 2.424e−14
0.25
0.2
0.15
0.1
0.05

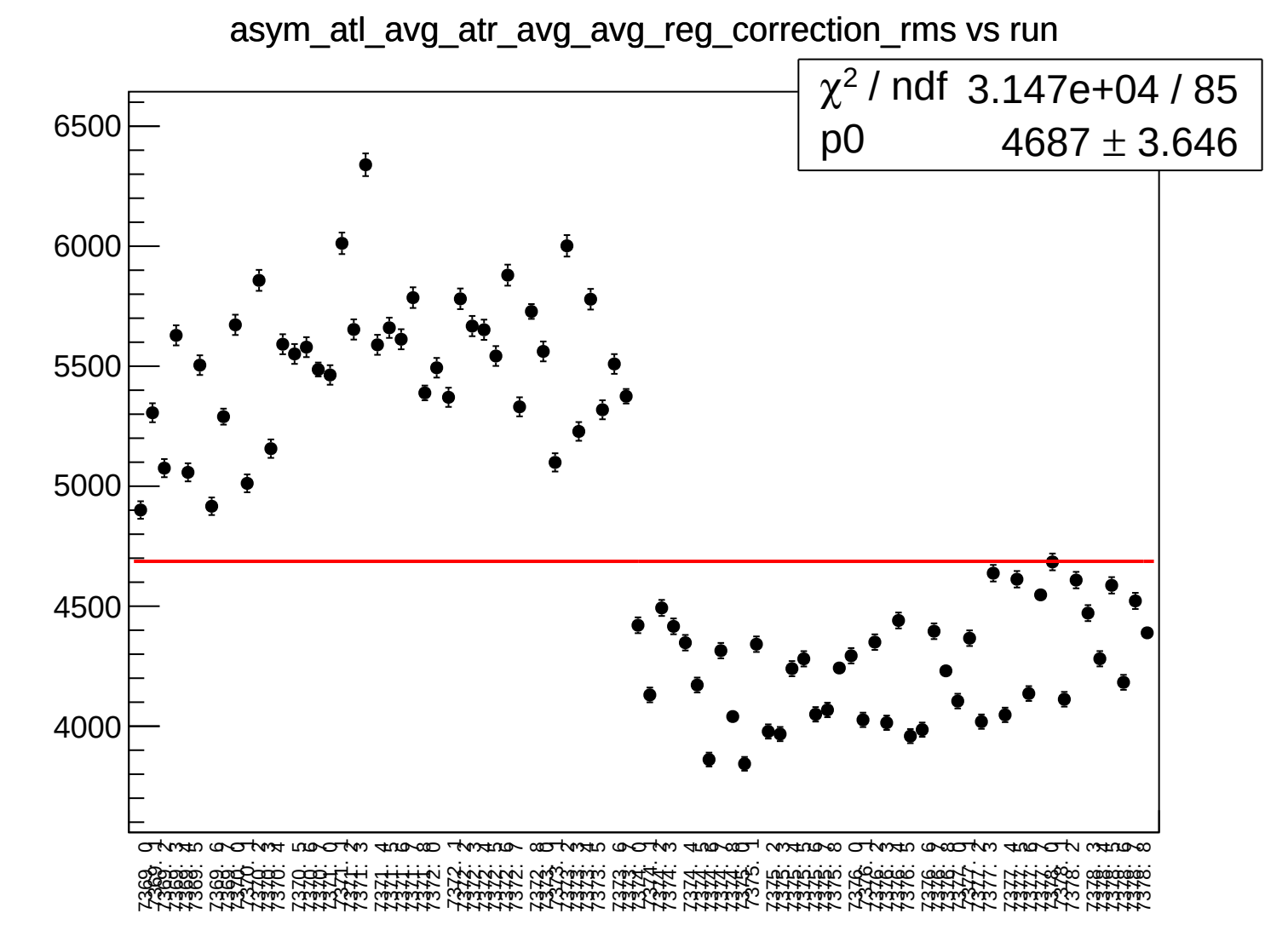

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.11 / 85
p0 −736.1± 1361
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2814
Std Dev 0
2
1
0
−1
−2
−3

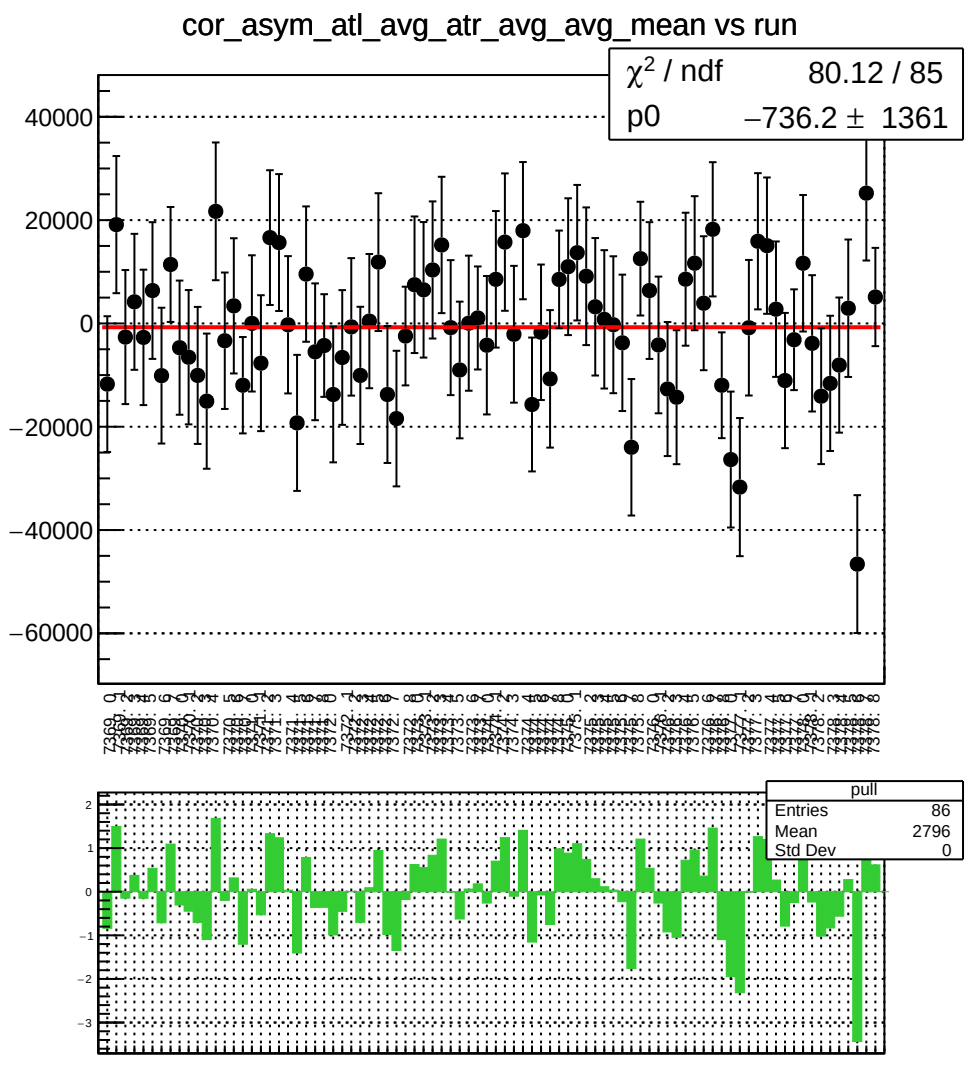

pull1D
Entries 86
Mean −0.0004382
Std Dev 0.9652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

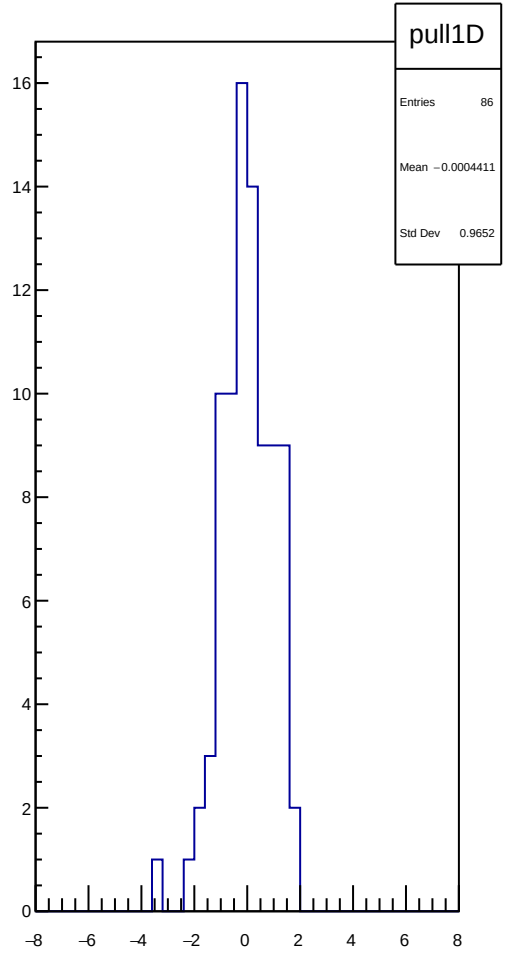

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 121.4 / 85
p0 1249 ± 0.9627
1280
1270
1260
1250
1240
1230
1220
1210

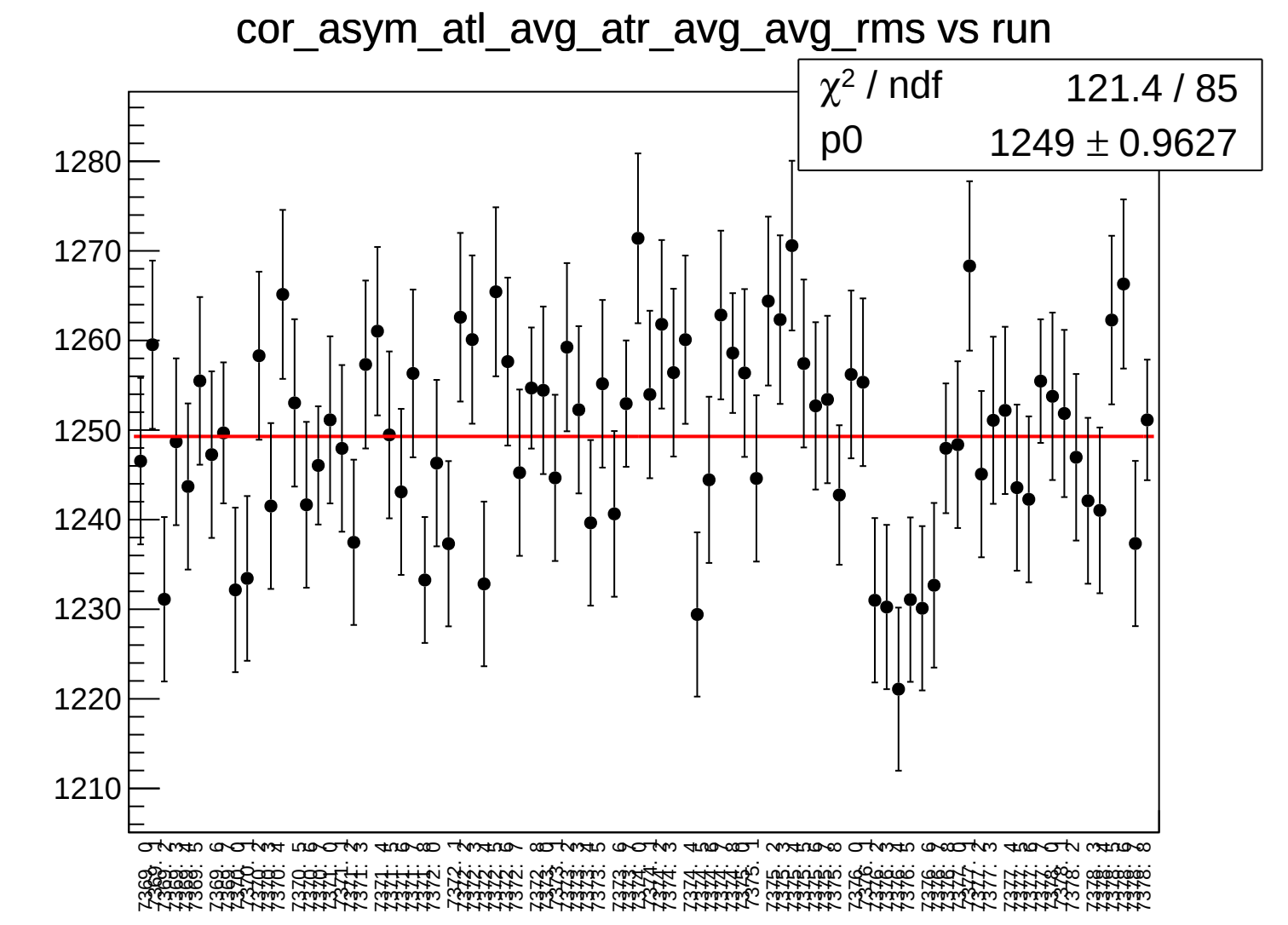

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.59 / 85
p0 −6194 ± 5156
pull
Entries 86
Mean −191.1
Std Dev 0

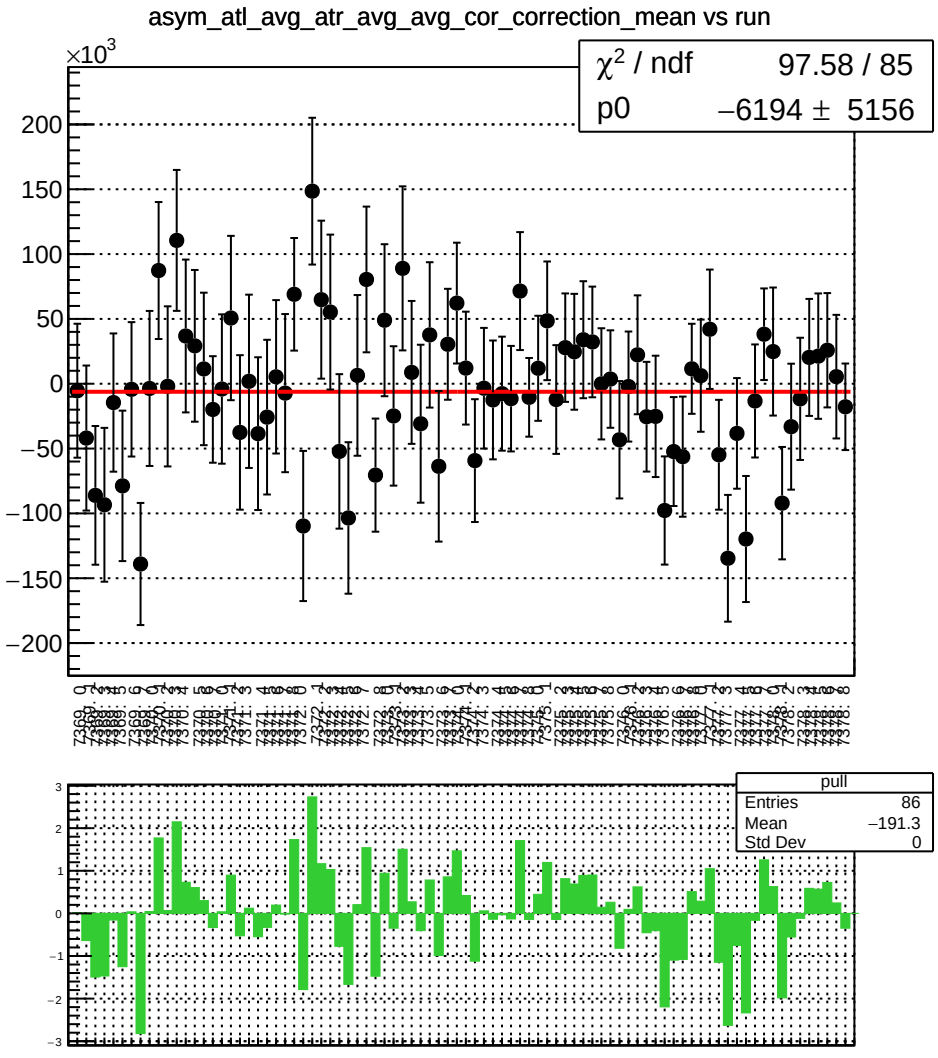

pull1D
Entries 86
Mean 0.005703
Std Dev 1.065

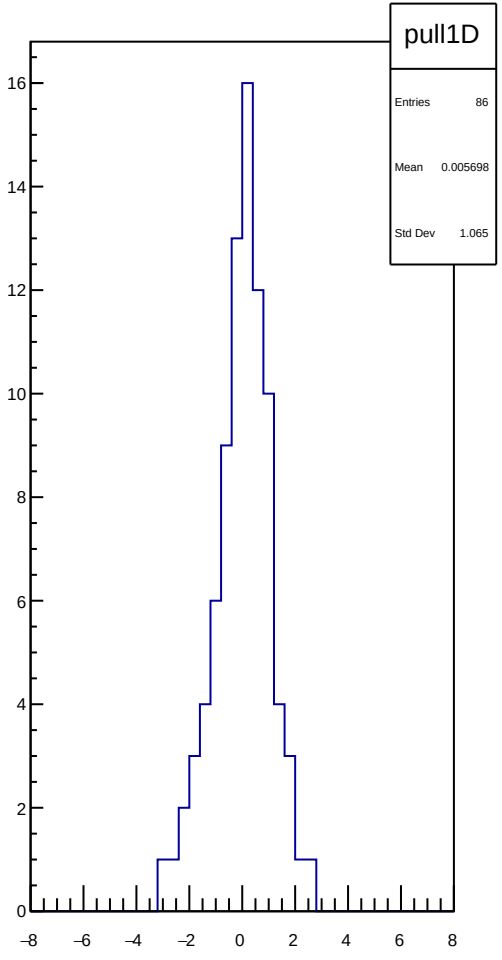

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.147e+04 / 85
p0 4687 ± 3.646
6500
6000
5500
5000
4500
4000

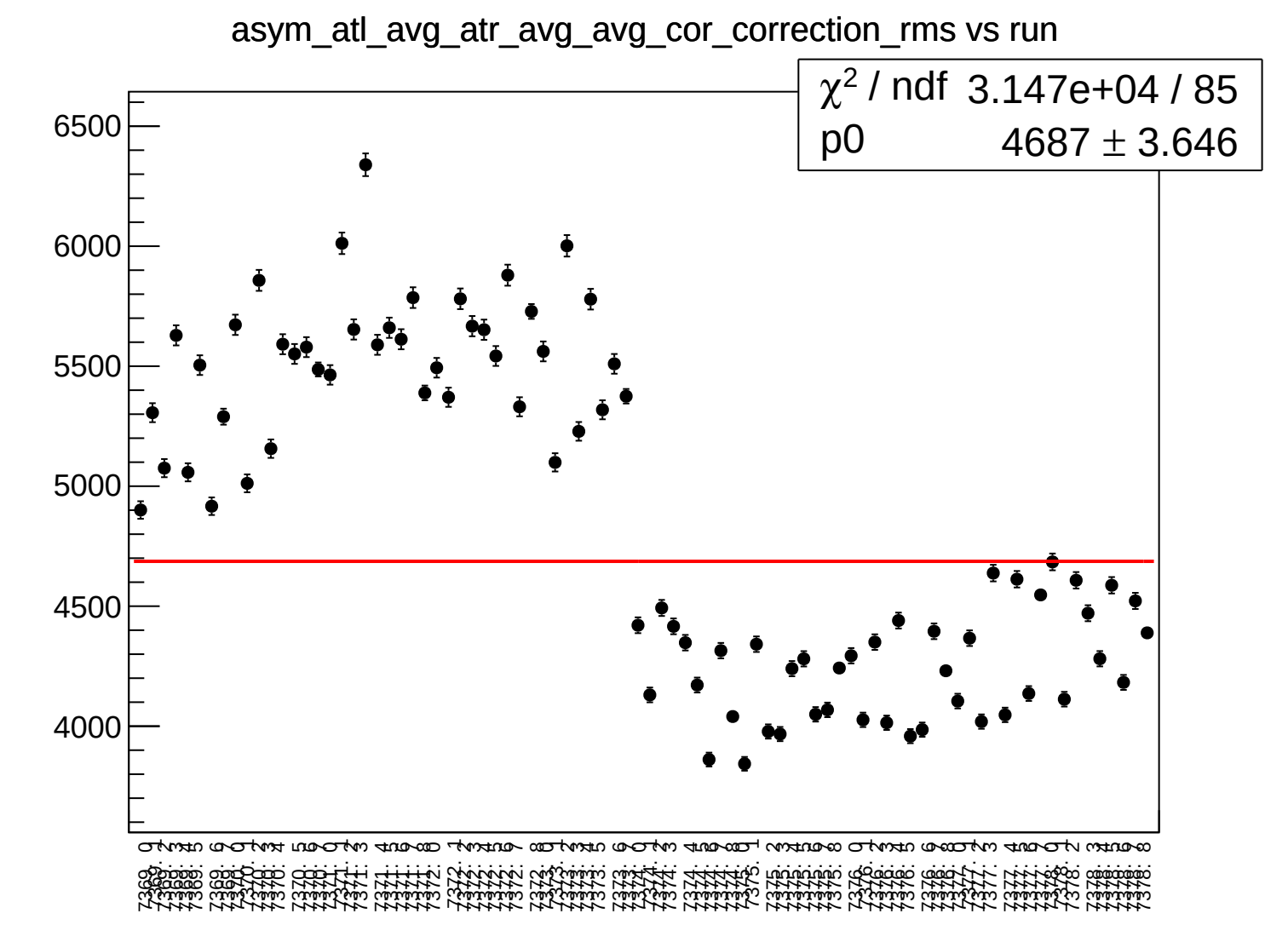

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.12 / 85
p0 −736.2 ± 1361
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2796
Std Dev 0
2
1
0
−1
−2
−3

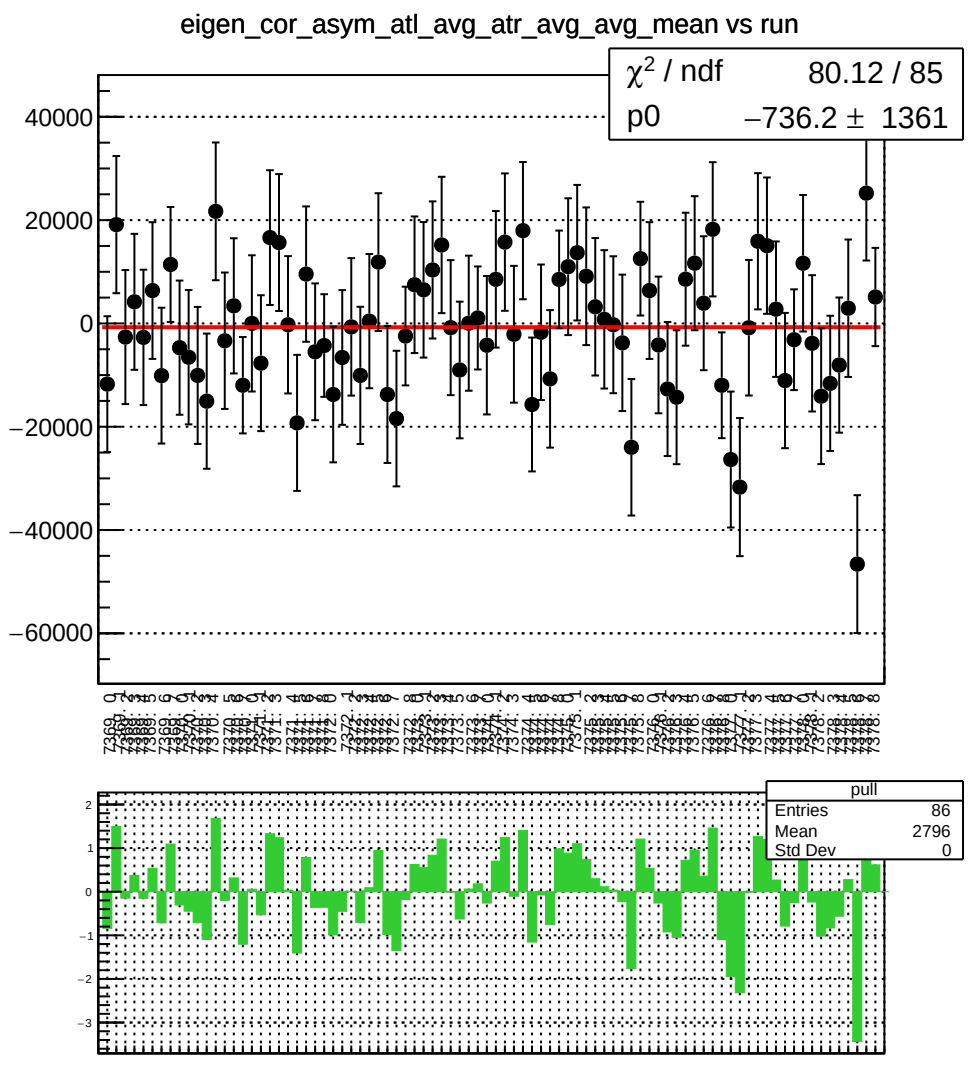

pull1D
Entries 86
Mean −0.0004411
Std Dev 0.9652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

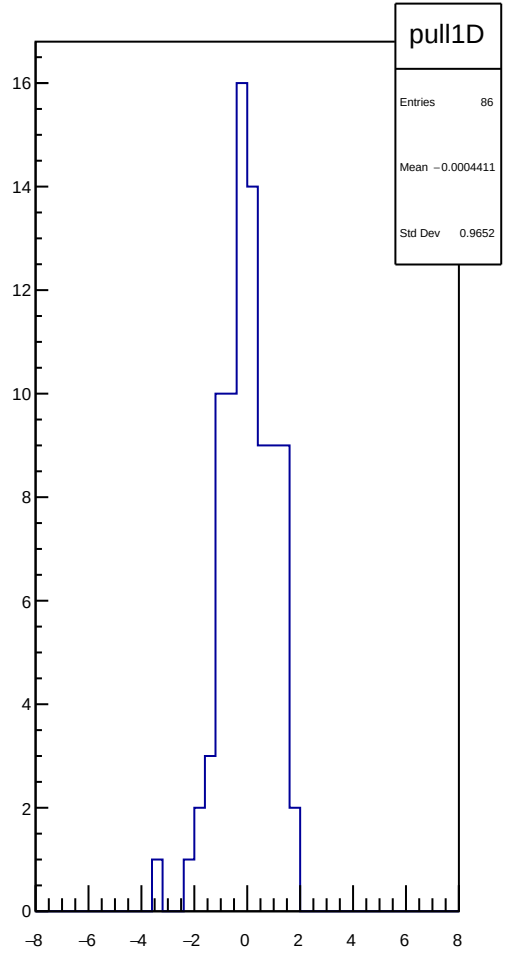

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 121.4 / 85
p0 1249 ± 0.9627
1280
1270
1260
1250
1240
1230
1220
1210

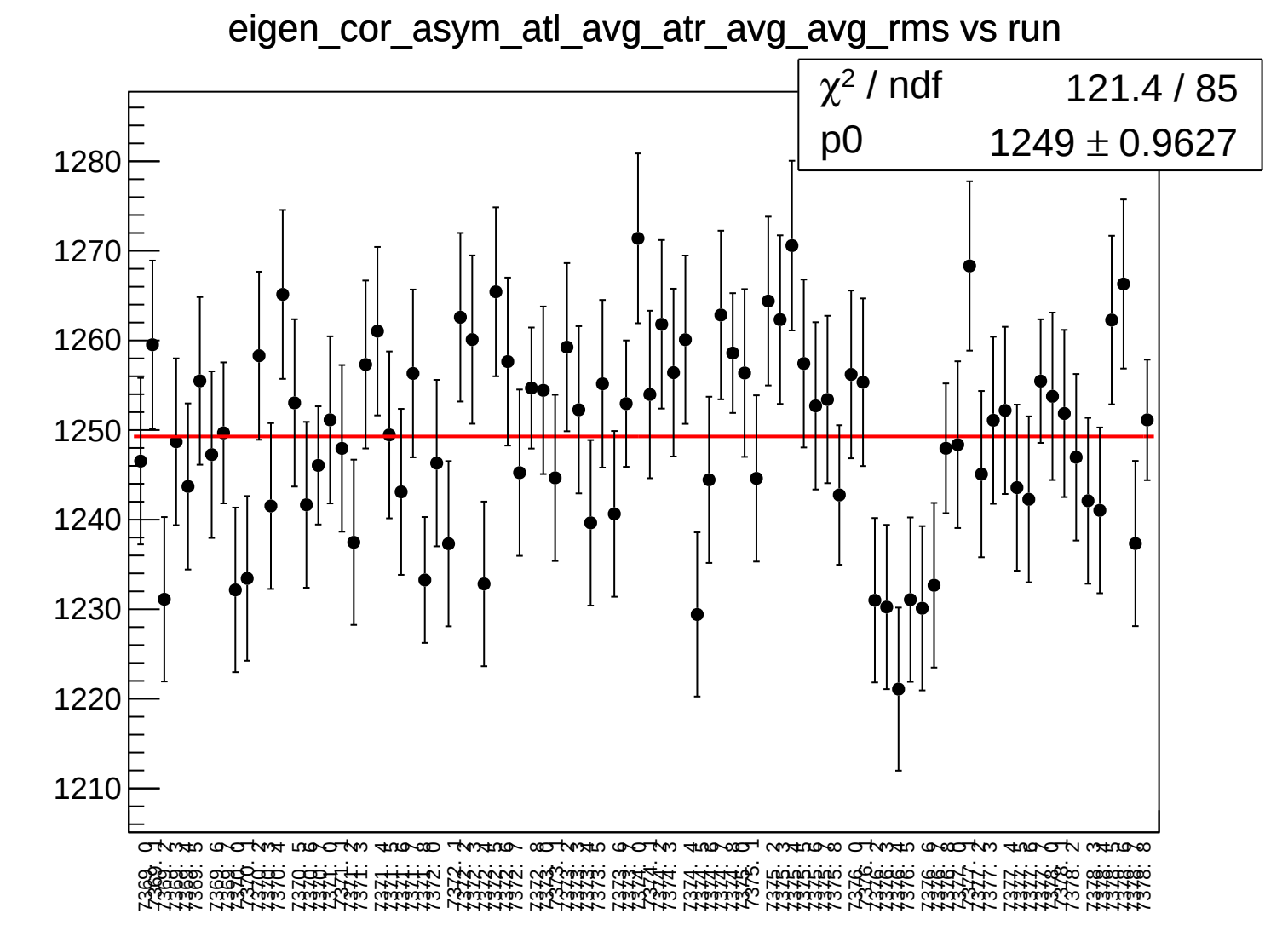

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.58 / 85
p0 −6194 ± 5156
pull
Entries 86
Mean −191.3
Std Dev 0

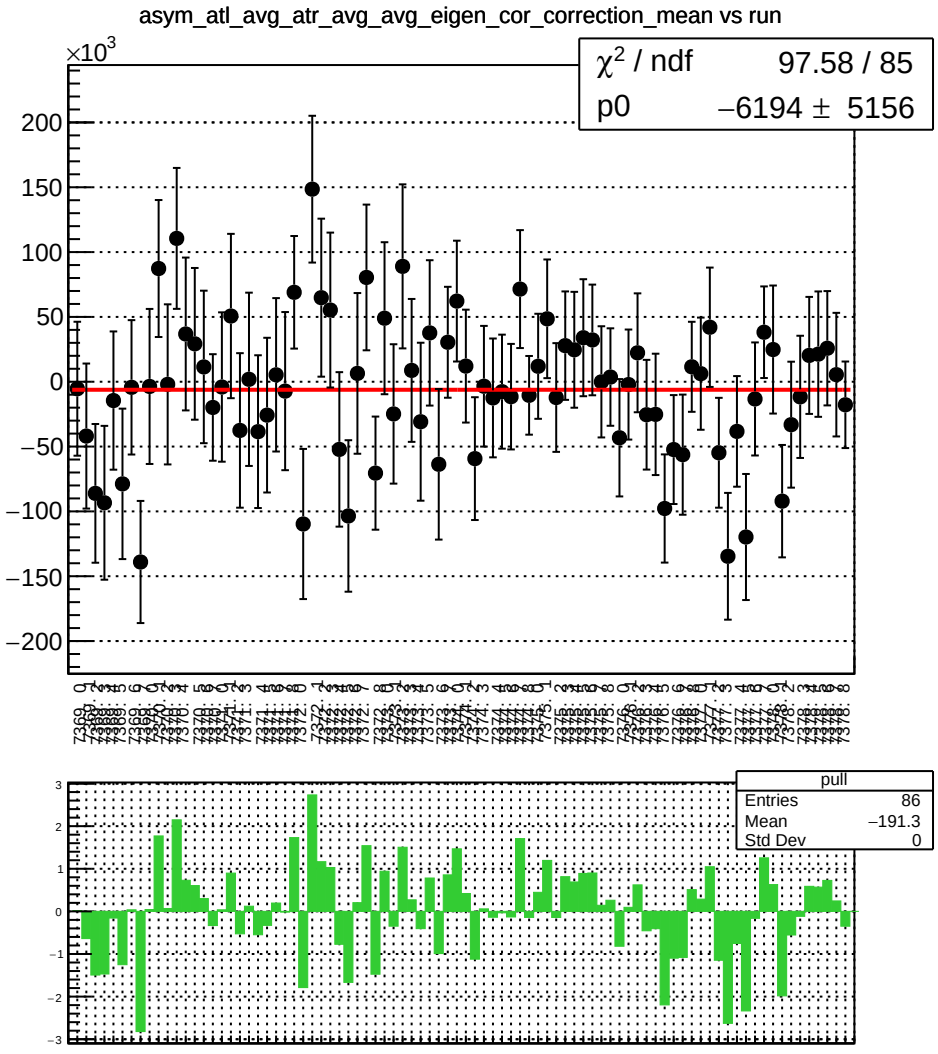

pull1D
Entries 86
Mean 0.005698
Std Dev 1.065

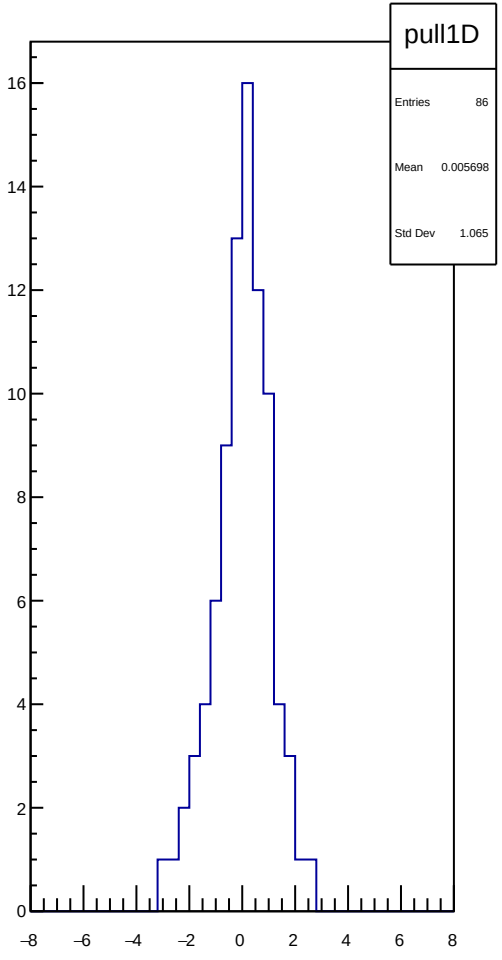

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.147e+04 / 85
p0 4687 ± 3.646
6500
6000
5500
5000
4500
4000

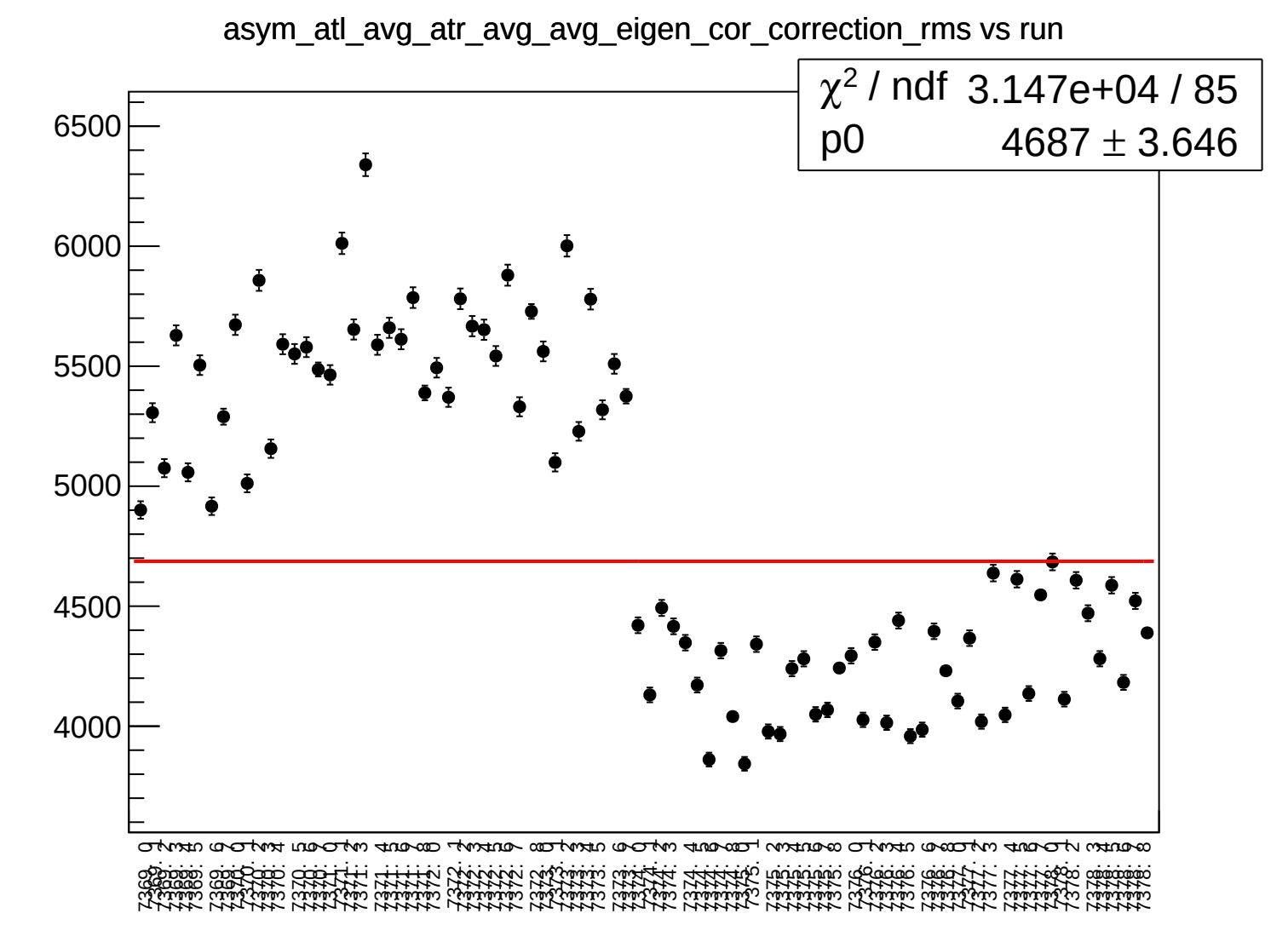

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.12 / 85
p0 −736.2 ± 1361
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 2796
Std Dev 0
2
1
0
−1
−2
−3

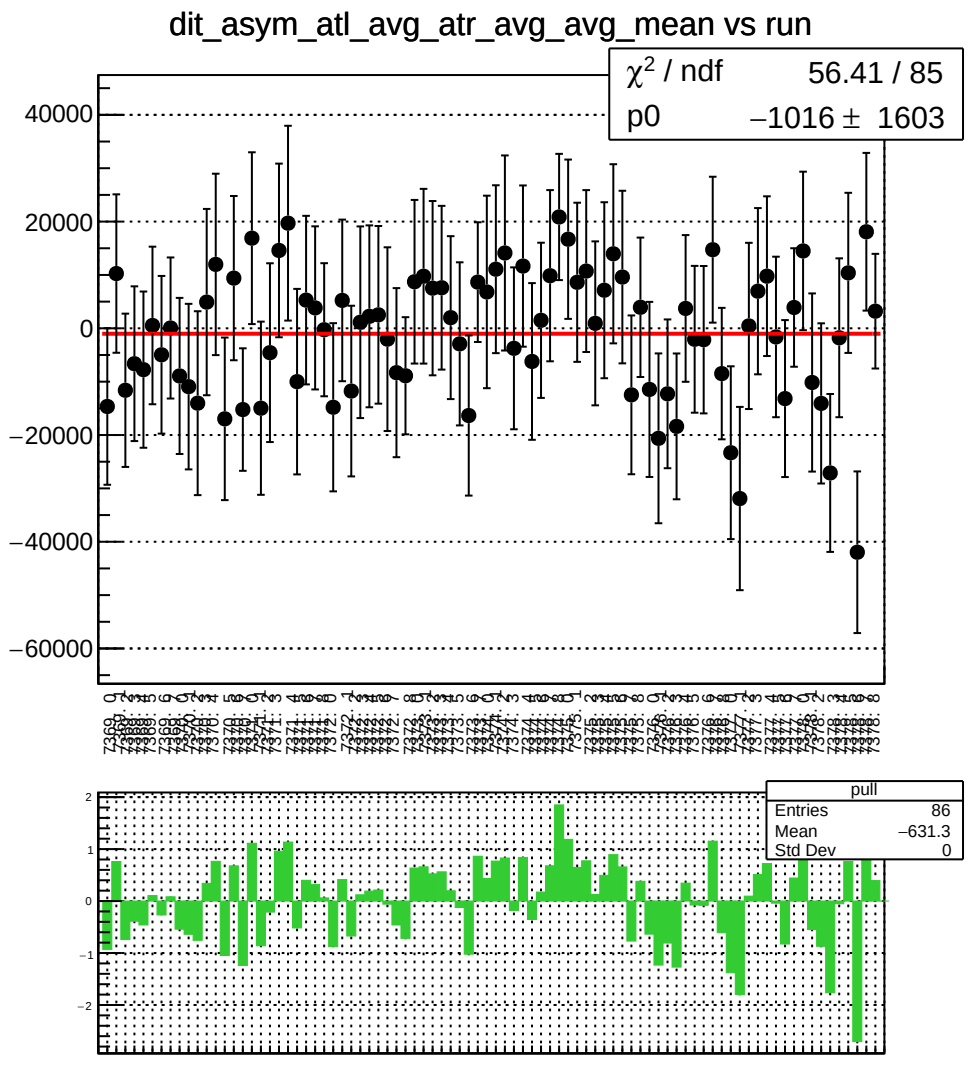

pull1D
Entries 86
Mean −0.0004411
Std Dev 0.9652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

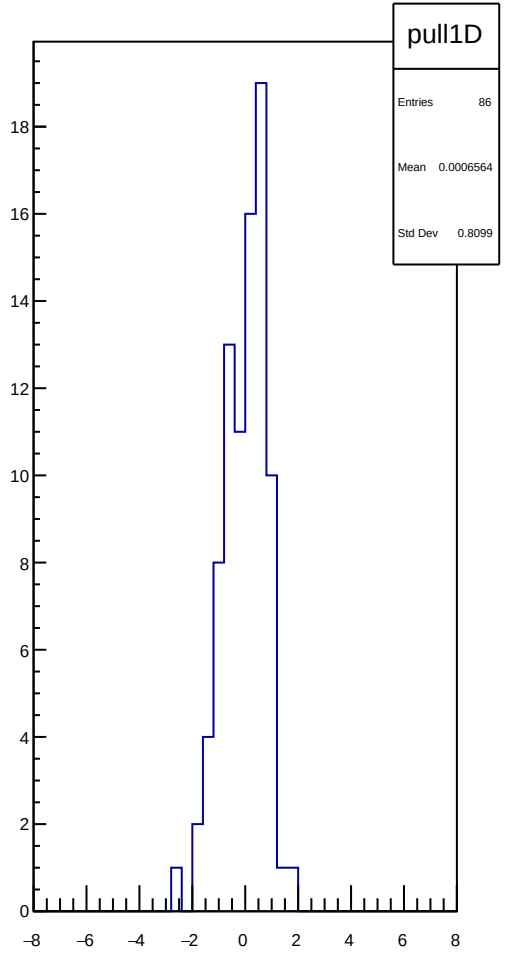

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 121.4 / 85
p0 1249 ± 0.9627
1280
1270
1260
1250
1240
1230
1220
1210

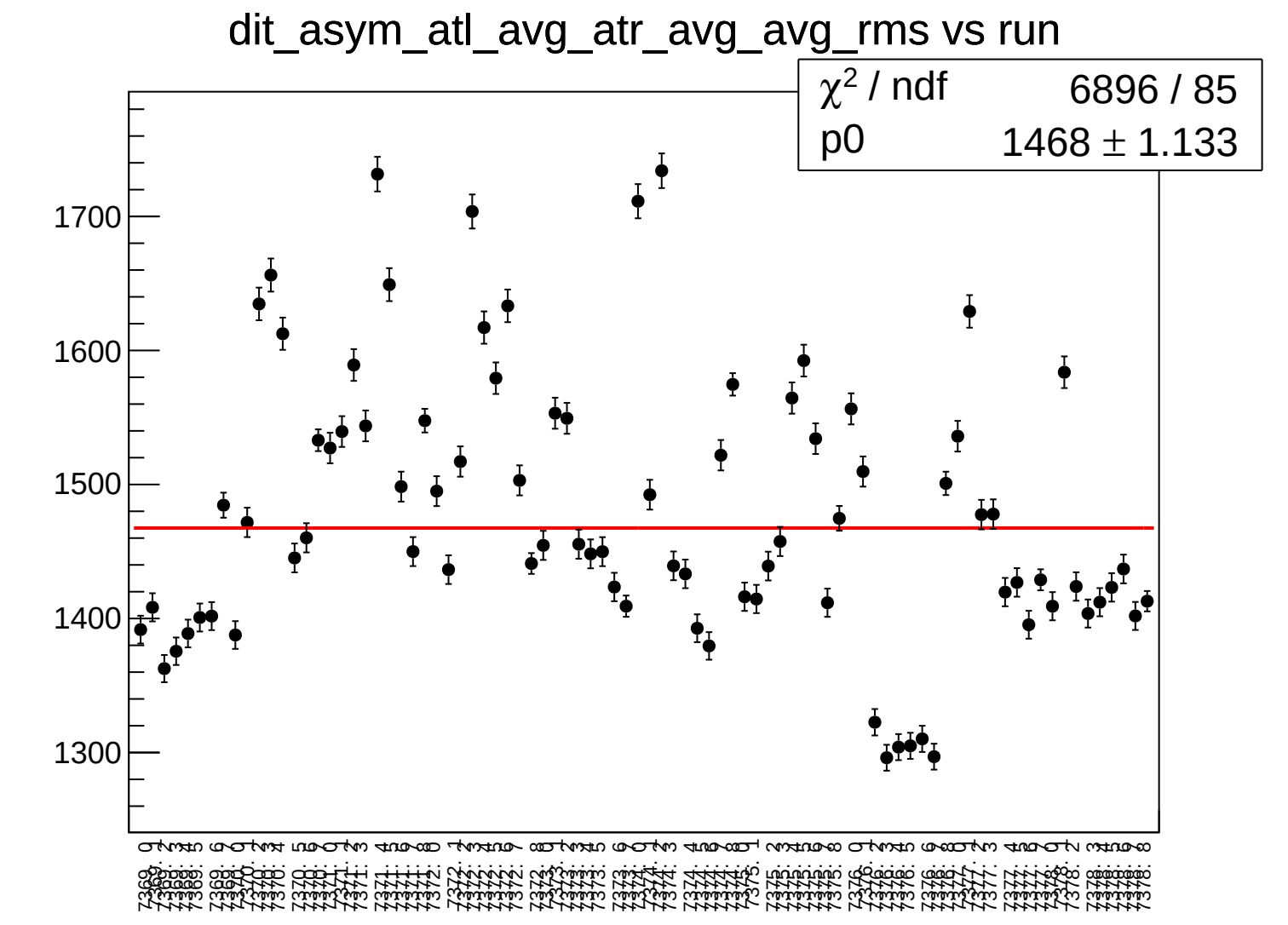

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.58 / 85
p0 −6194 ± 5156
pull
Entries 86
Mean −191.3
Std Dev 0

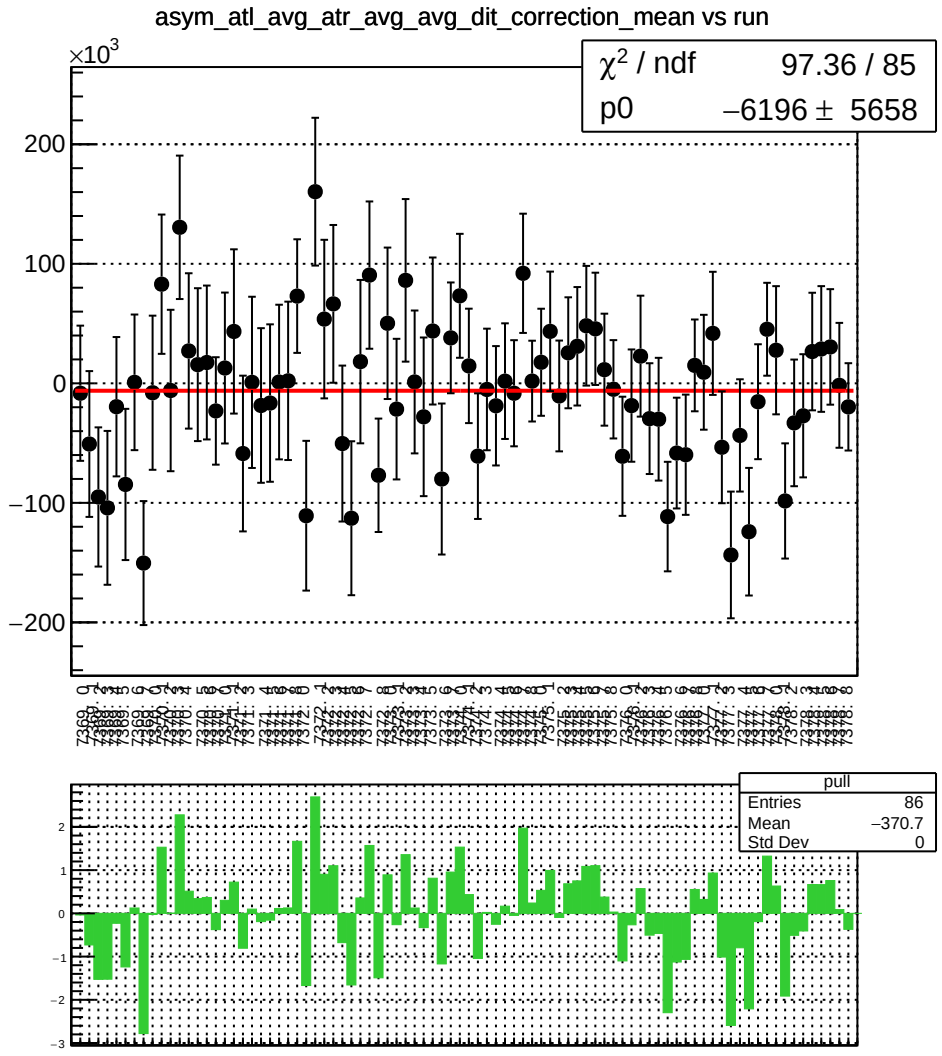

pull1D
Entries 86
Mean 0.005698
Std Dev 1.065

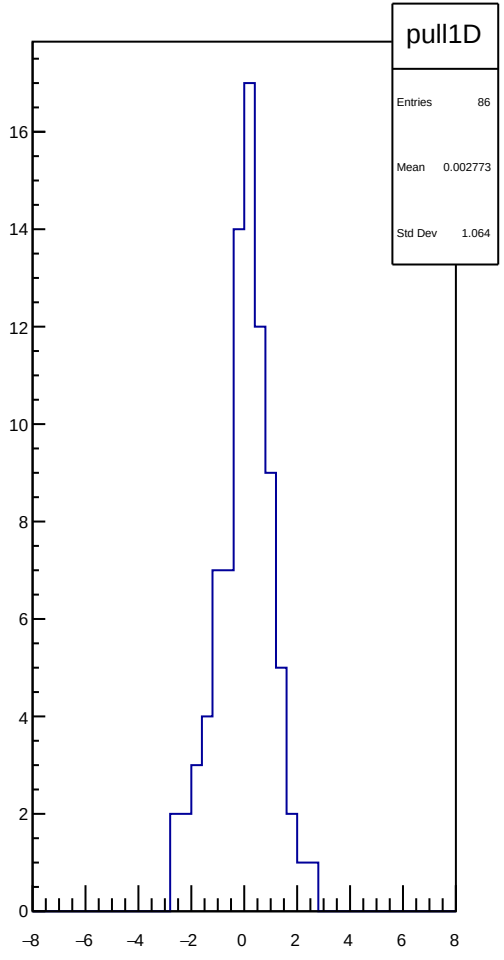

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.147e+04 / 85
p0 4687 ± 3.646
6500
6000
5500
5000
4500
4000

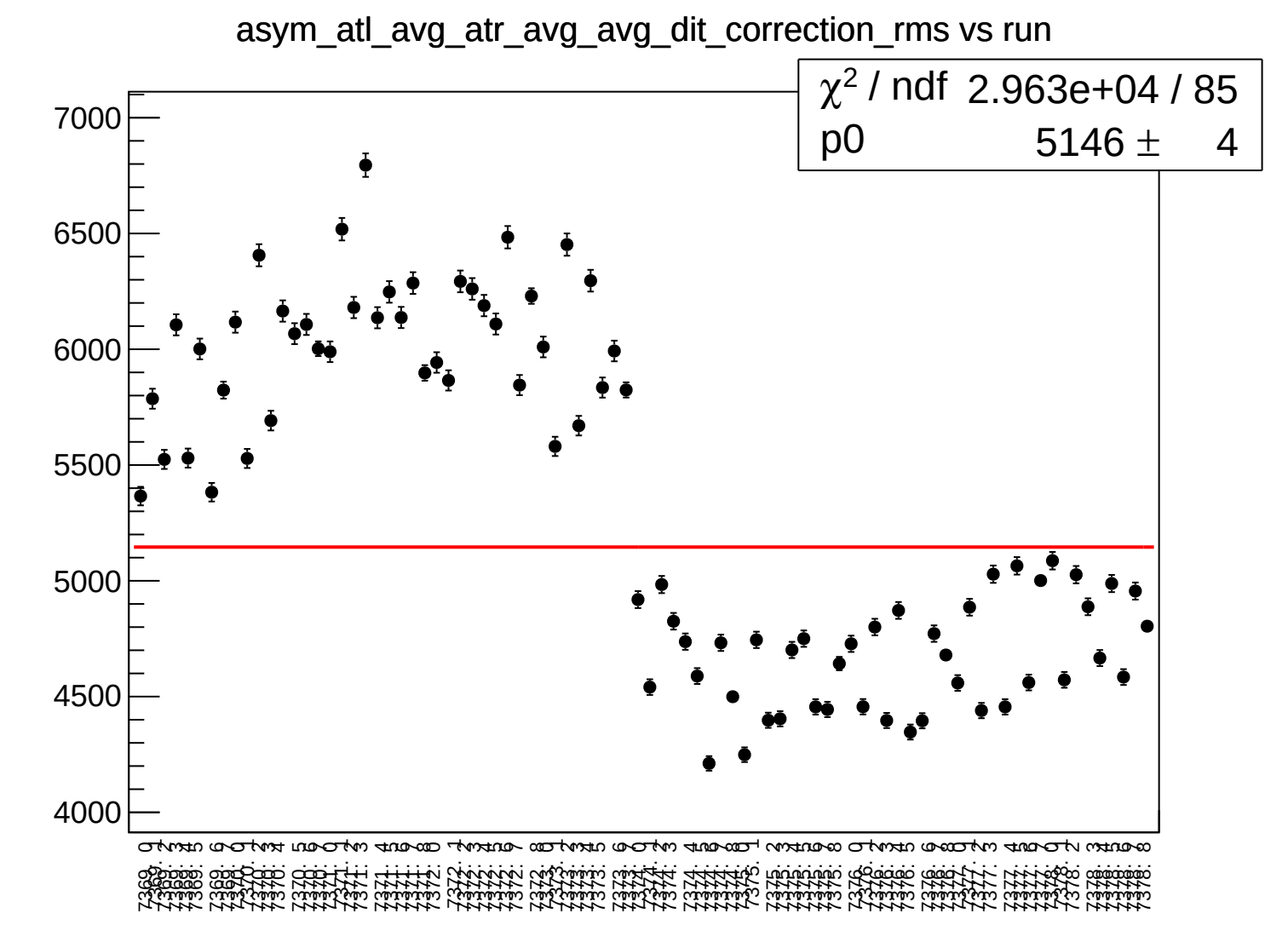

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 56.41 / 85
p0 −1016 ± 1603
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −631.3
Std Dev 0
2
1
0
−1
−2

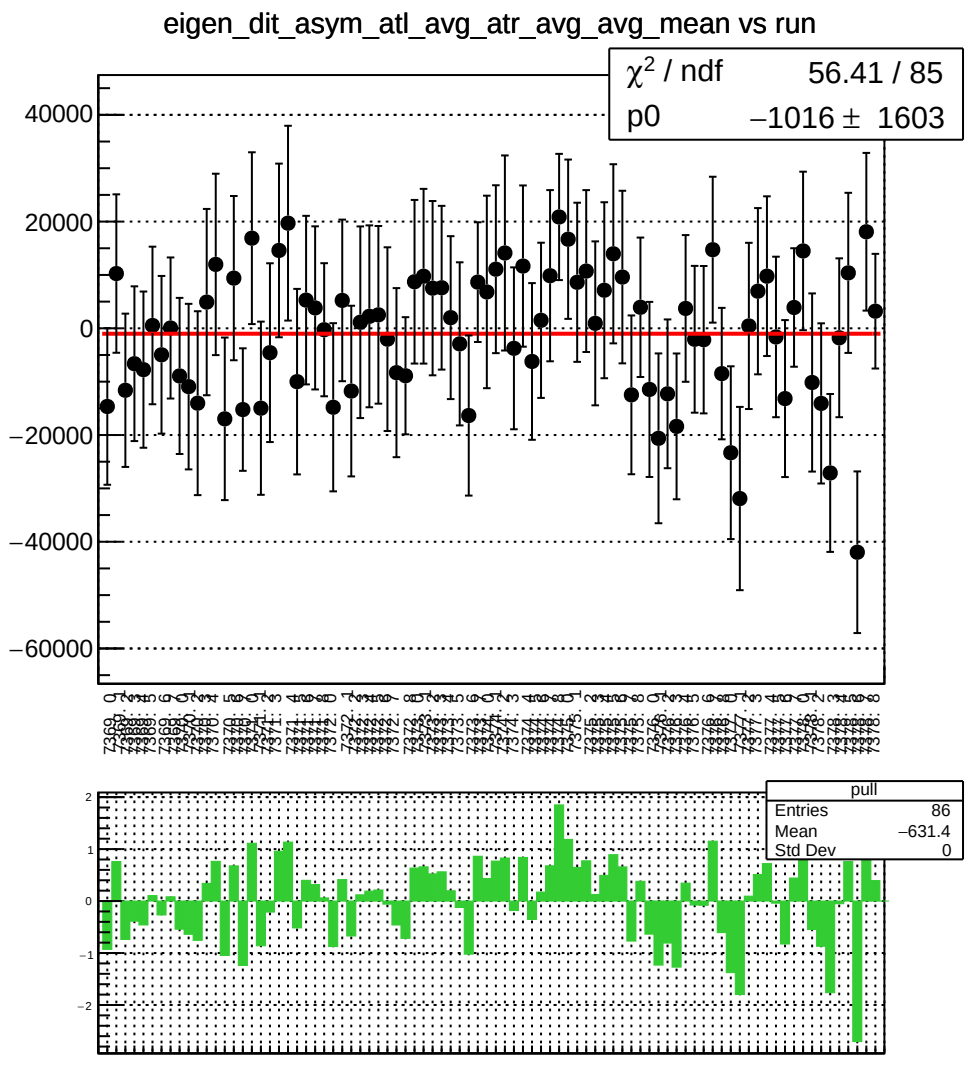

pull1D
Entries 86
Mean 0.0006564
Std Dev 0.8099
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

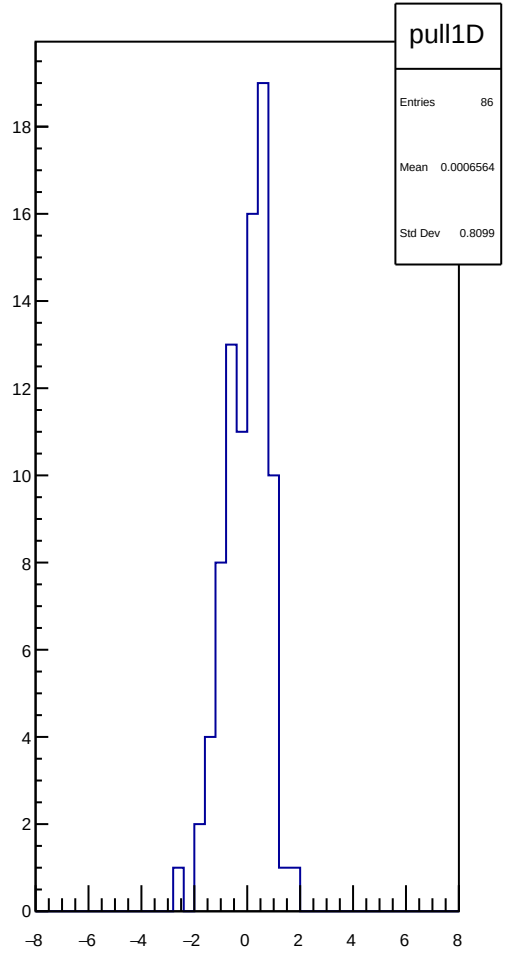

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6896 / 85
p0 1468 ± 1.133
1700
1600
1500
1400
1300

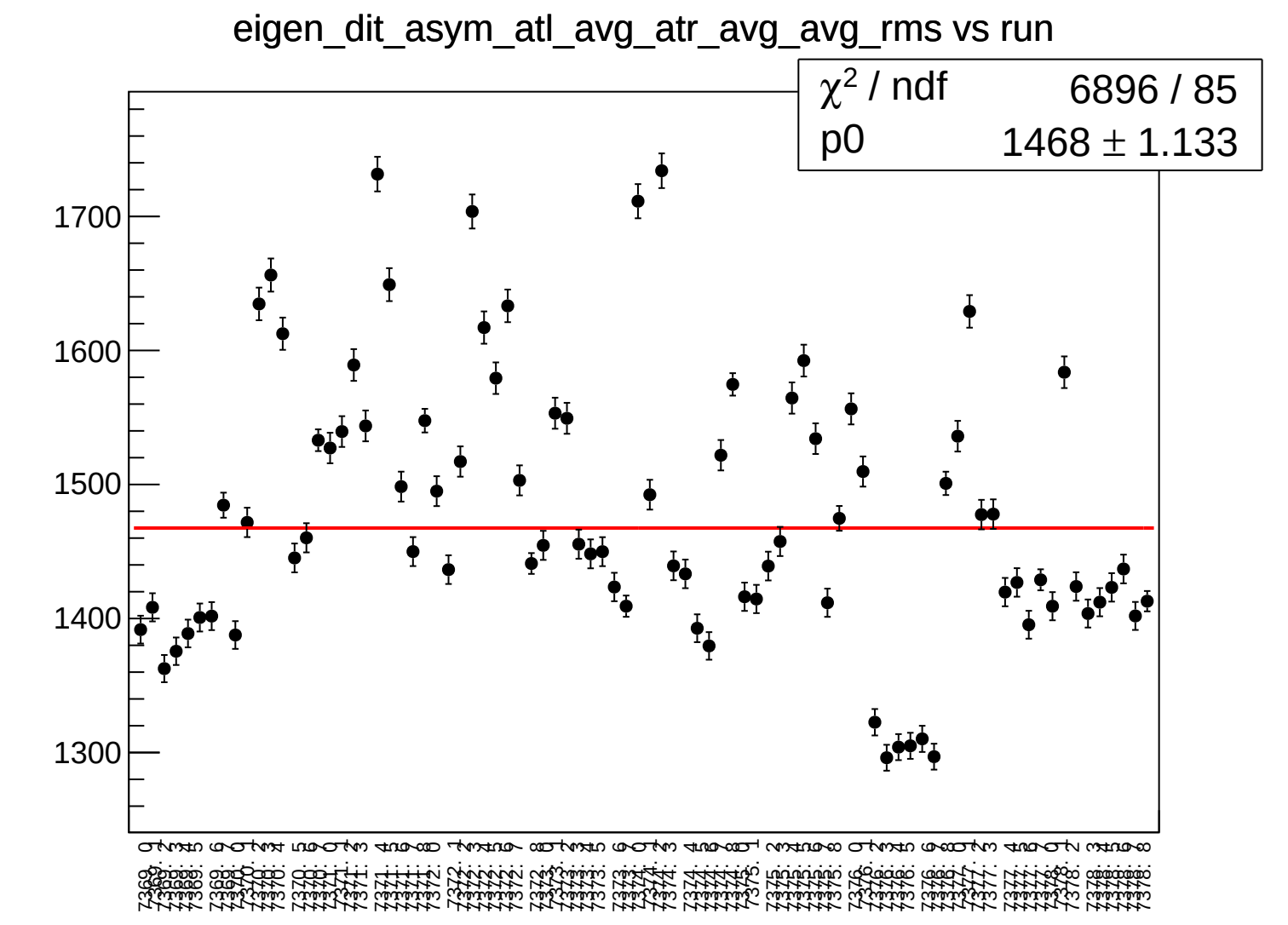

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.36 / 85
p0 −6196 ± 5658
200
100
0
−100
−200
pull
Entries 86
Mean −370.7
Std Dev 0
2
1
0
−1
−2
−3

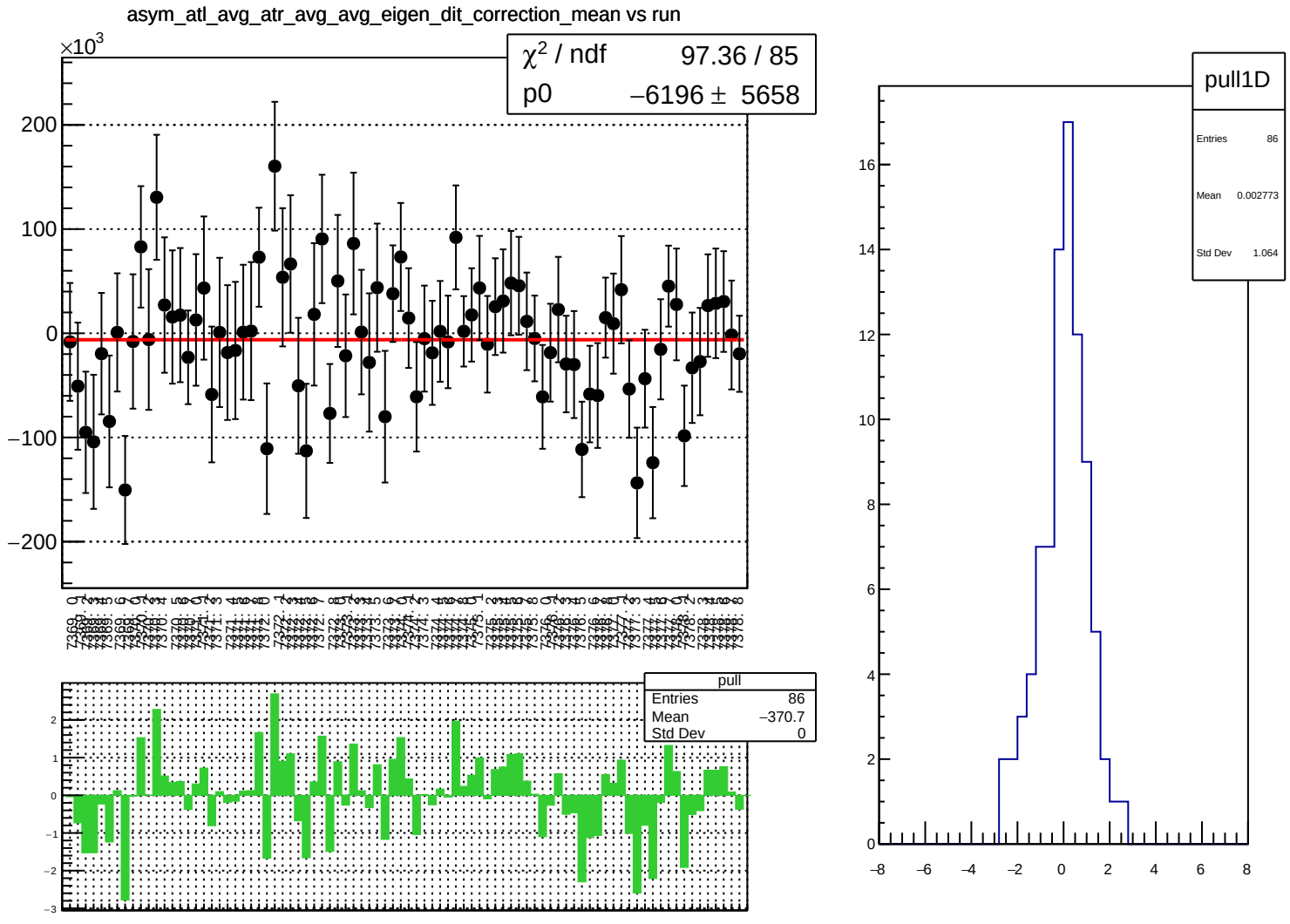

pull1D
Entries 86
Mean 0.002773
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

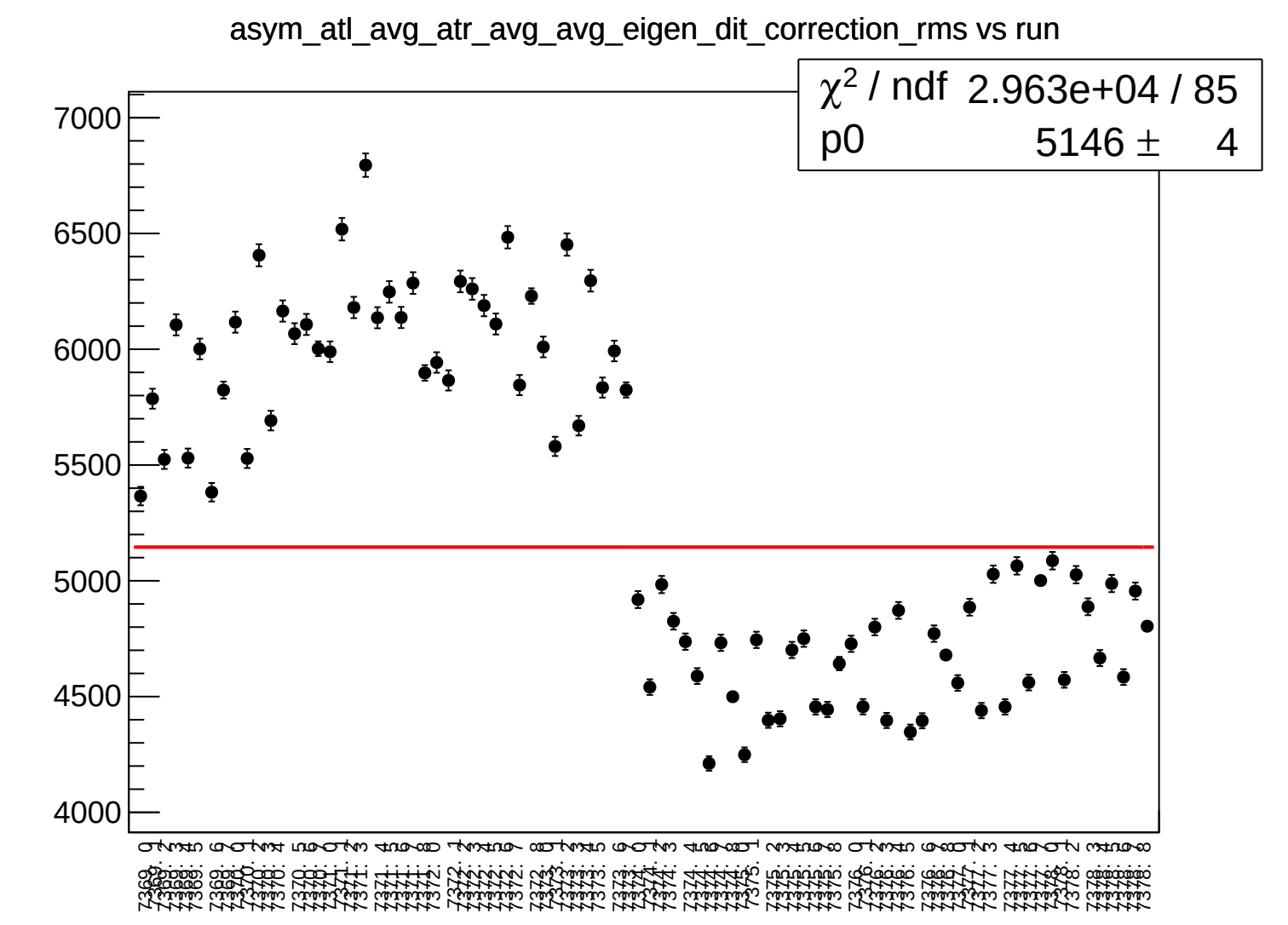

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.963e+04 / 85
p0 5146 ± 4
7000
6500
6000
5500
5000
4500
4000

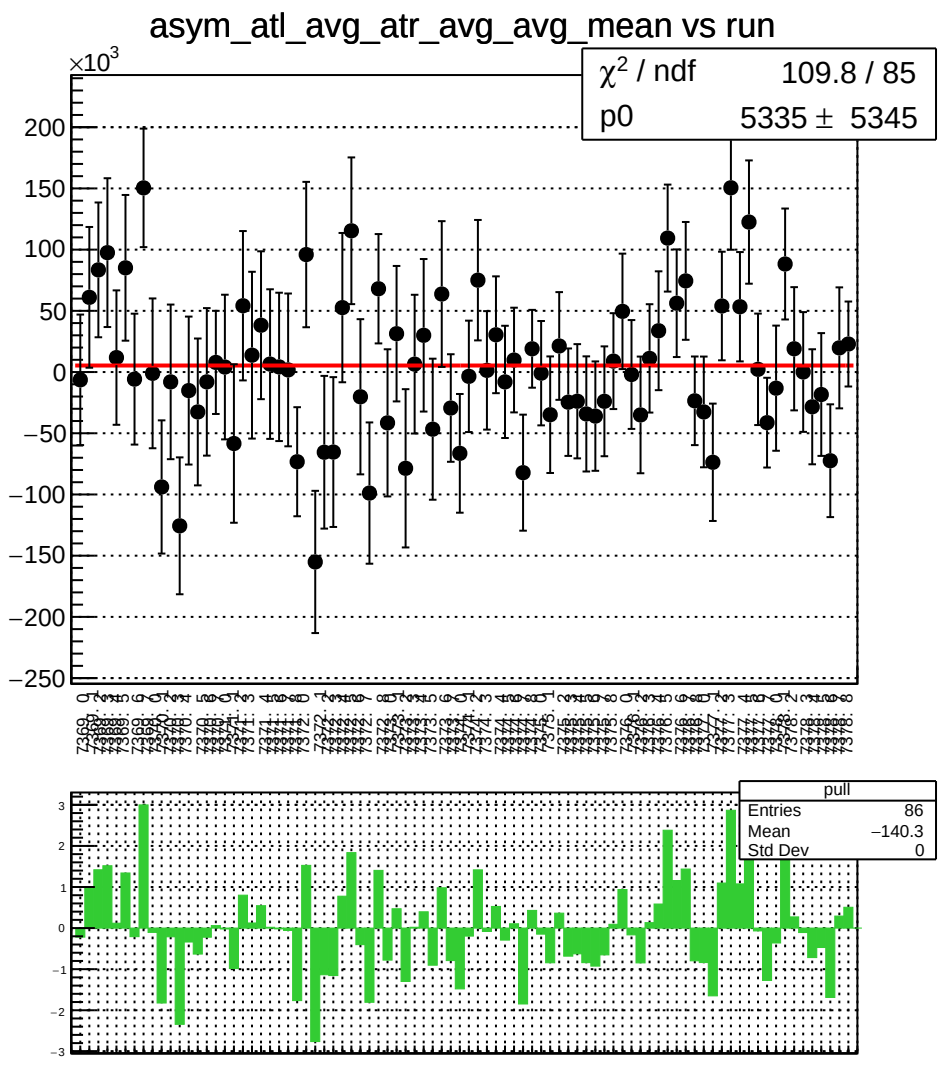

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 56.41 / 85
p0 −1016 ± 1603
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −631.4
Std Dev 0
2
1
0
−1
−2

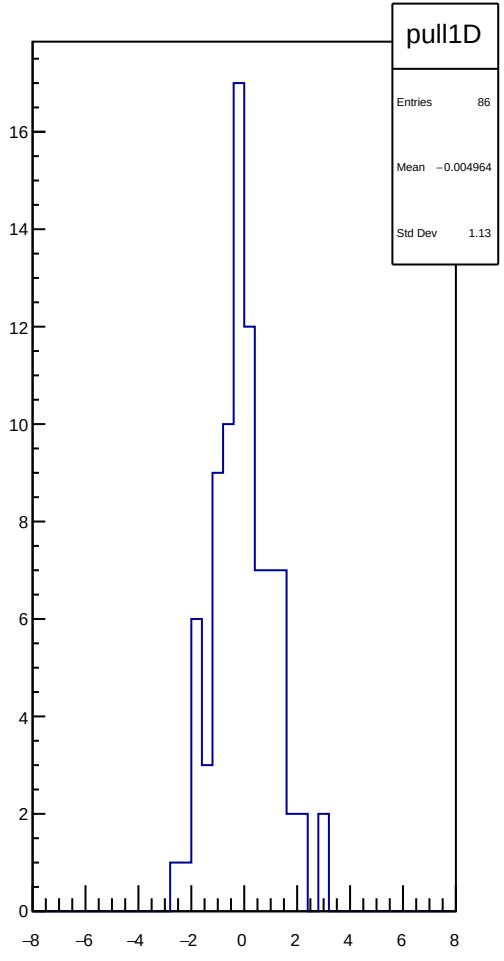

pull1D
Entries 86
Mean 0.0006564
Std Dev 0.8099
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

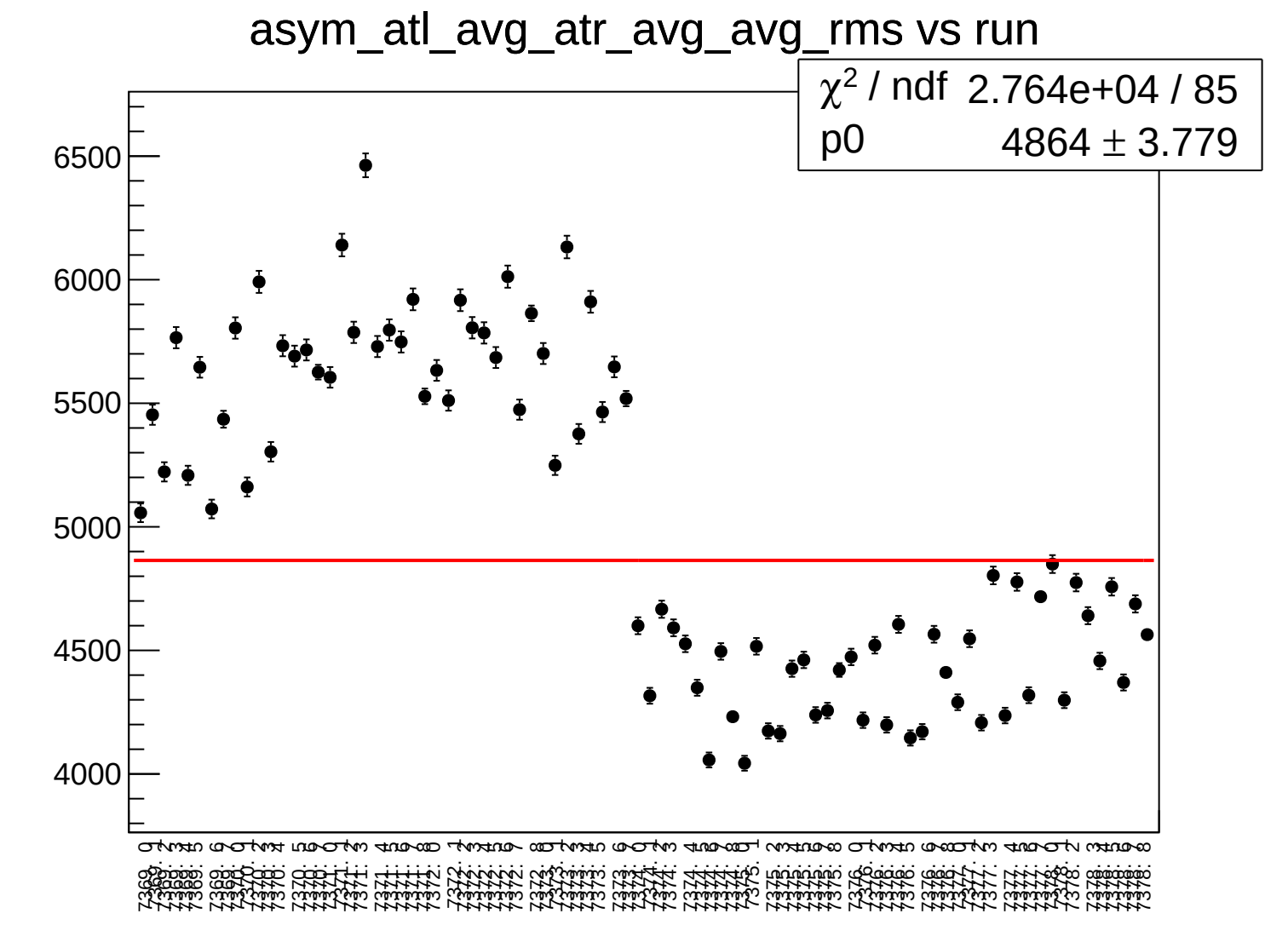

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6896 / 85
p0 1468 ± 1.133
1700
1600
1500
1400
1300

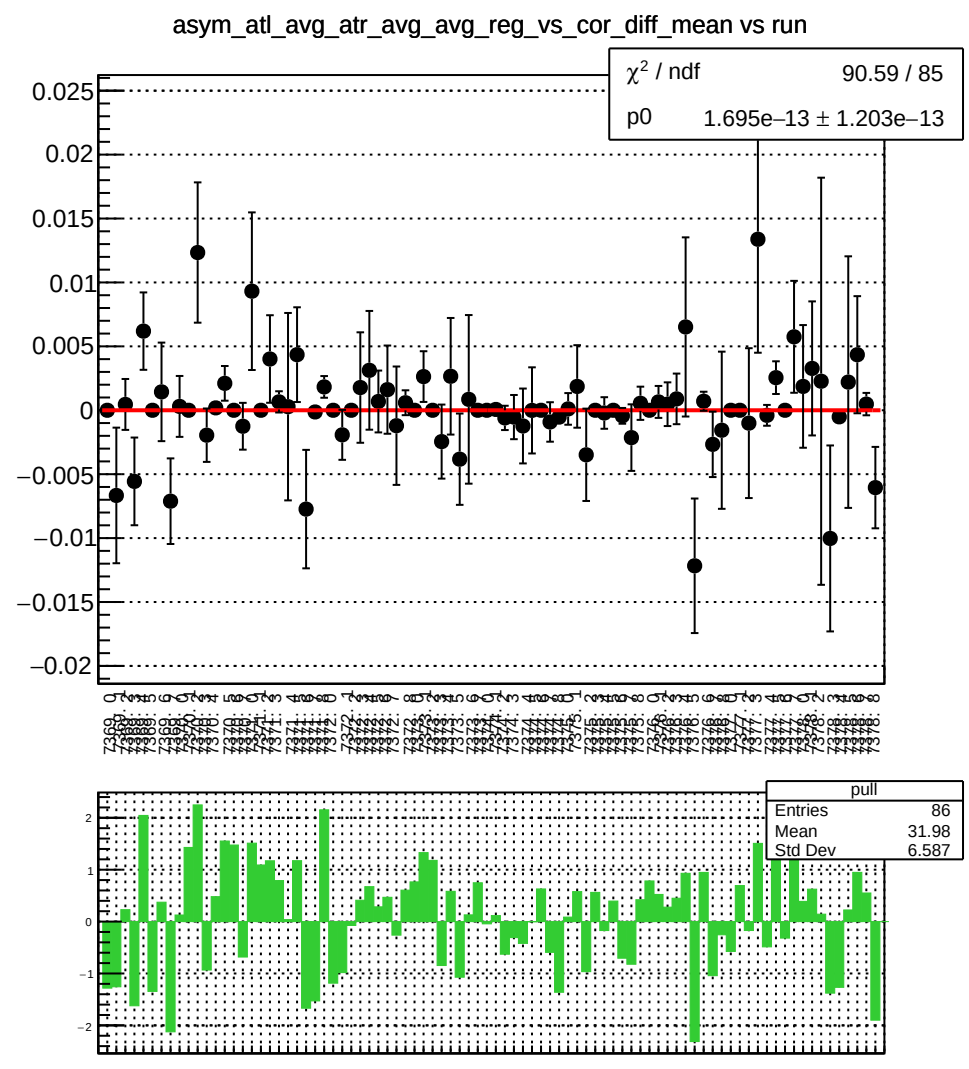

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.36 / 85
p0 −6196 ± 5658
200
100
0
−100
−200
pull
Entries 86
Mean −370.7
Std Dev 0
pull1D
Entries 86
Mean 0.002773
Std Dev 1.064

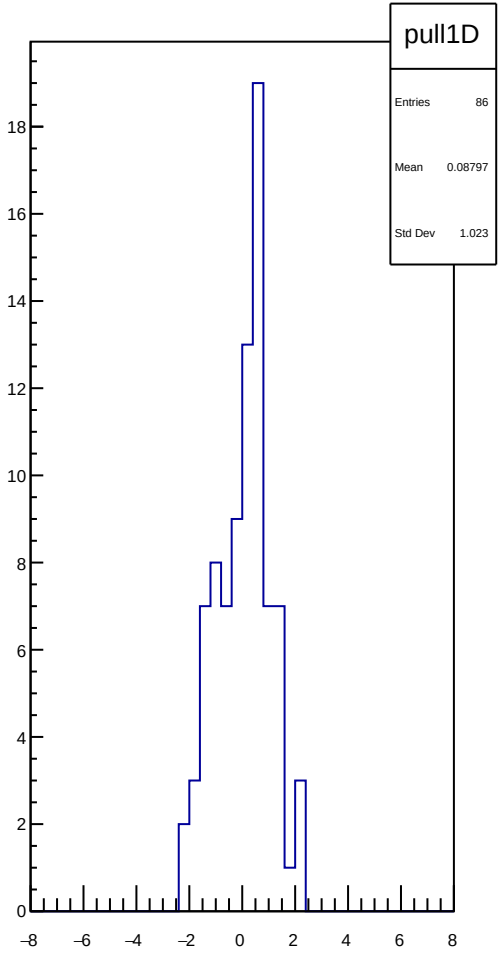

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.963e+04 / 85
p0 5146 ± 4
7000
6500
6000
5500
5000
4500
4000

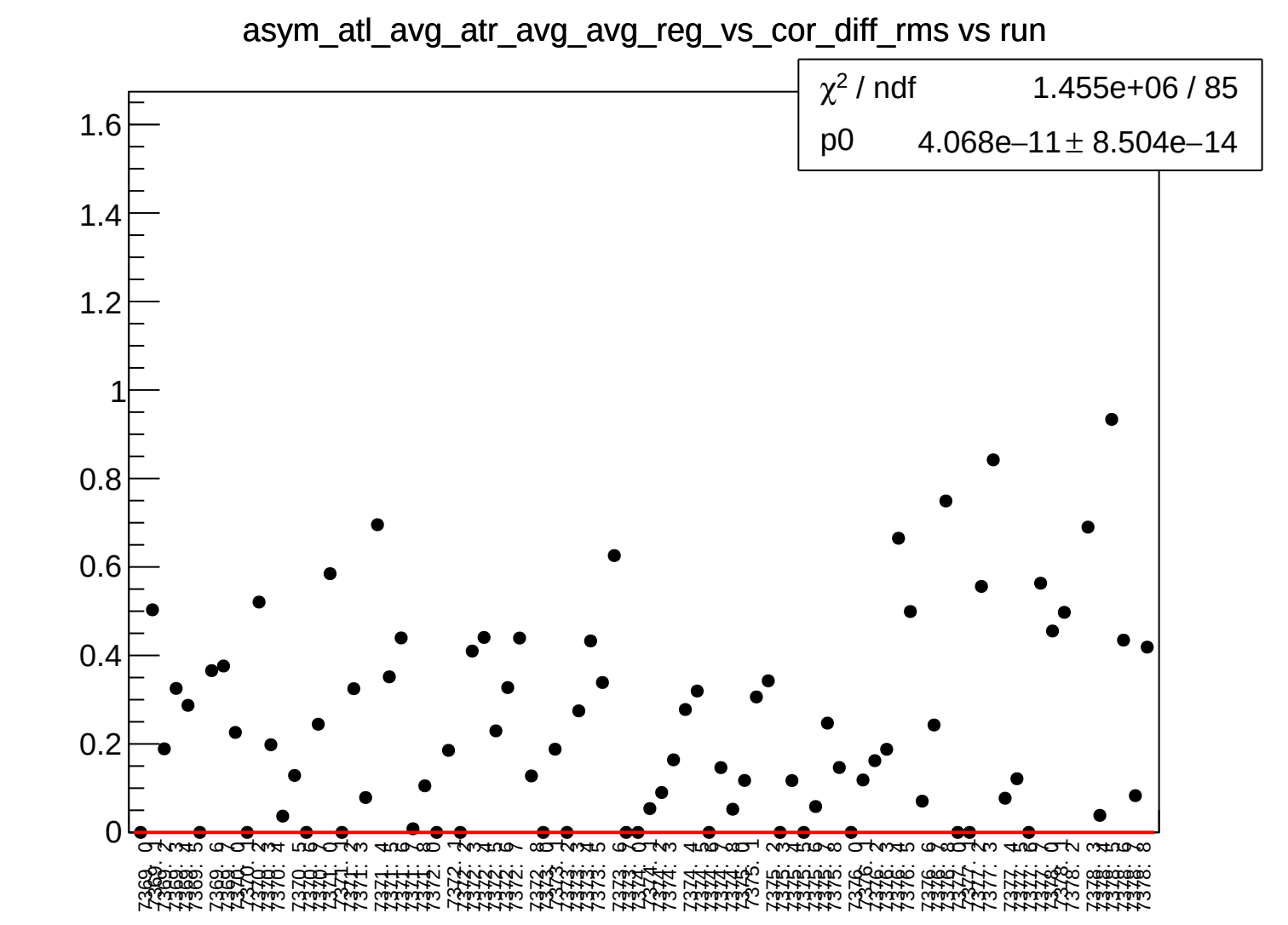

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 109.8 / 85
p0 5335 ± 5345
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 86
Mean −140.3
Std Dev 0
3
2
1
0
−1
−2
−3

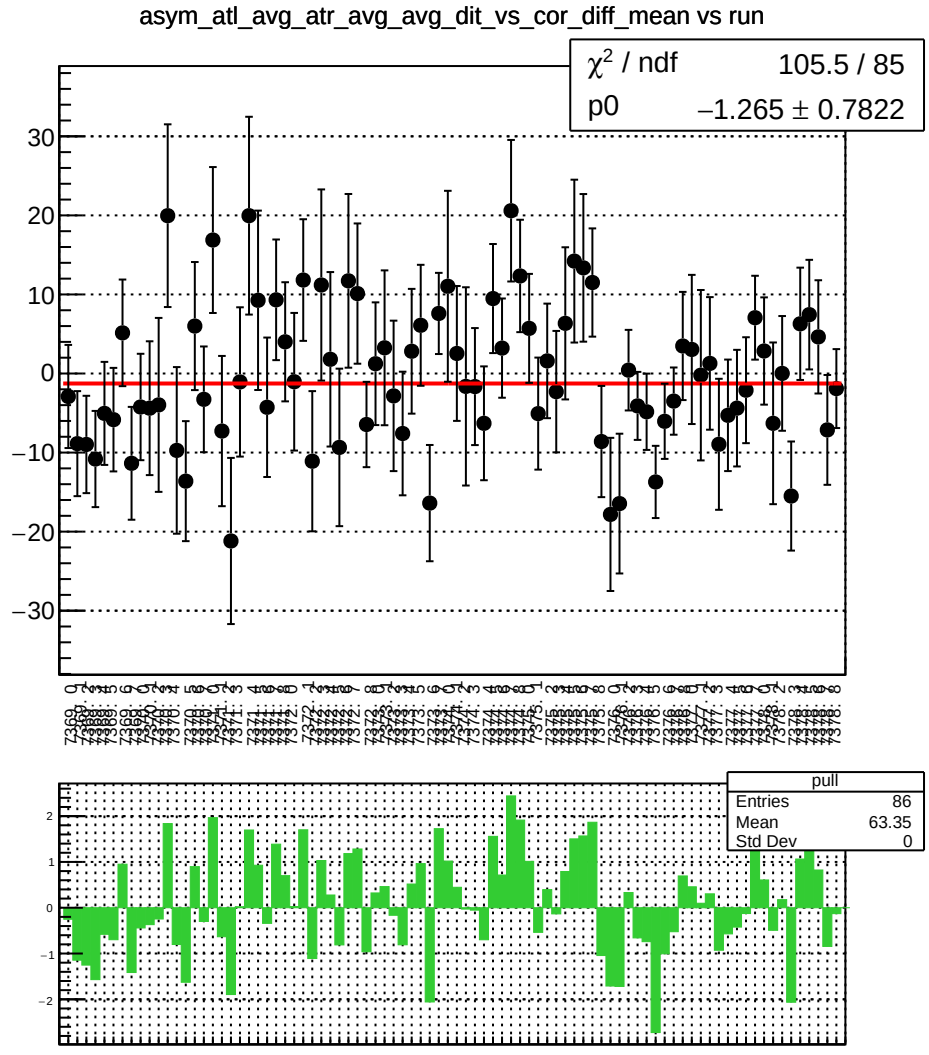

pull1D
Entries 86
Mean −0.004964
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

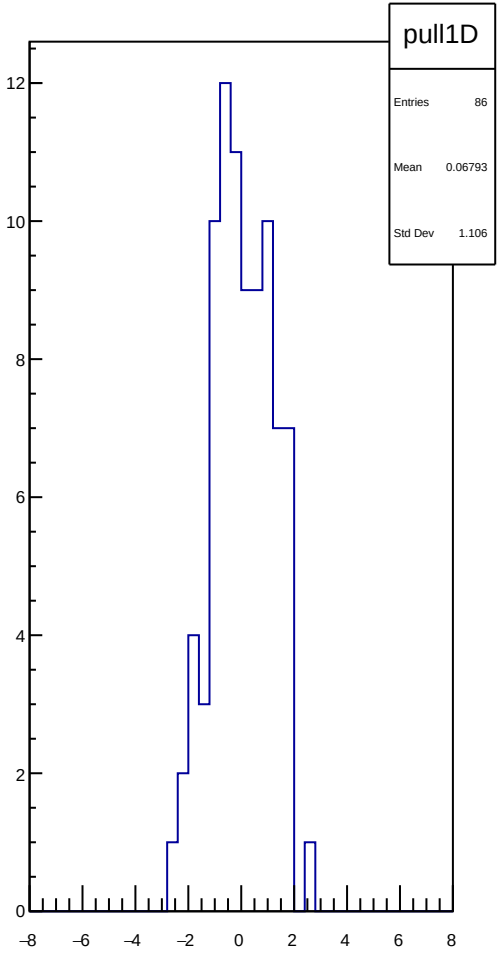

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.764e+04 / 85
p0 4864 ± 3.779
6500
6000
5500
5000
4500
4000

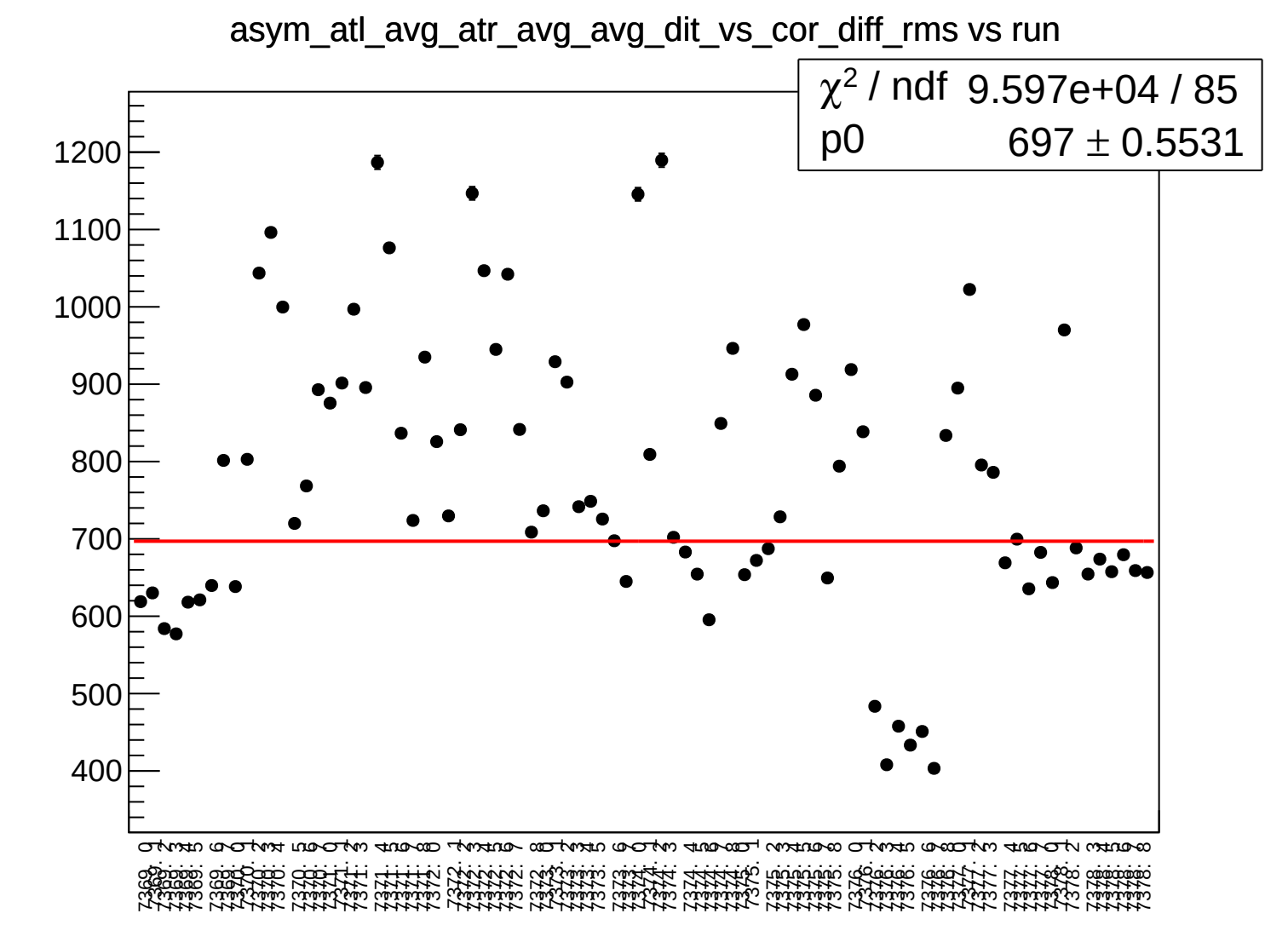

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.59 / 85
p0 1.695e−13 ± 1.203e−13
pull
Entries 86
Mean 31.98
Std Dev 6.587

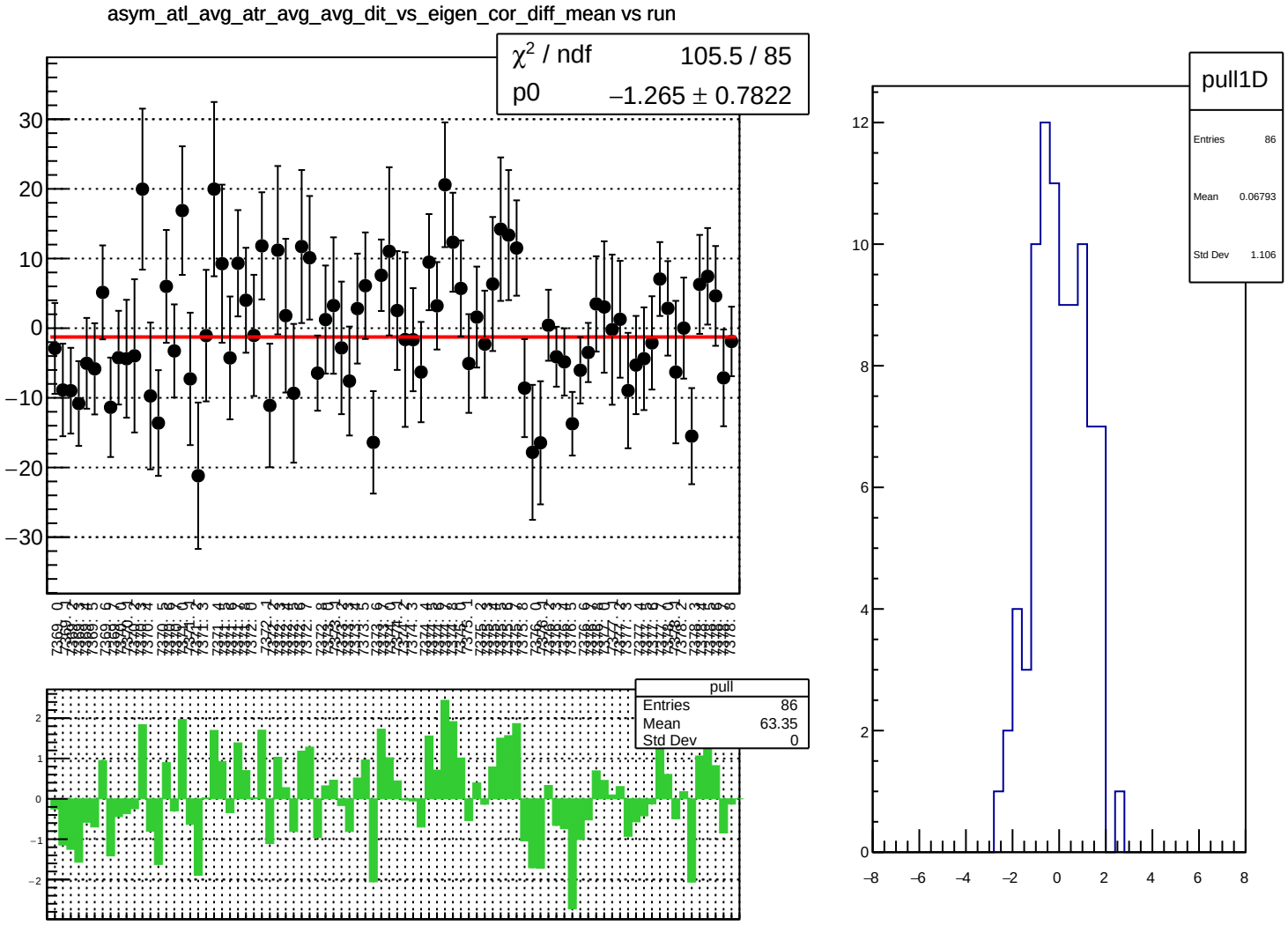

pull1D
Entries 86
Mean 0.08797
Std Dev 1.023

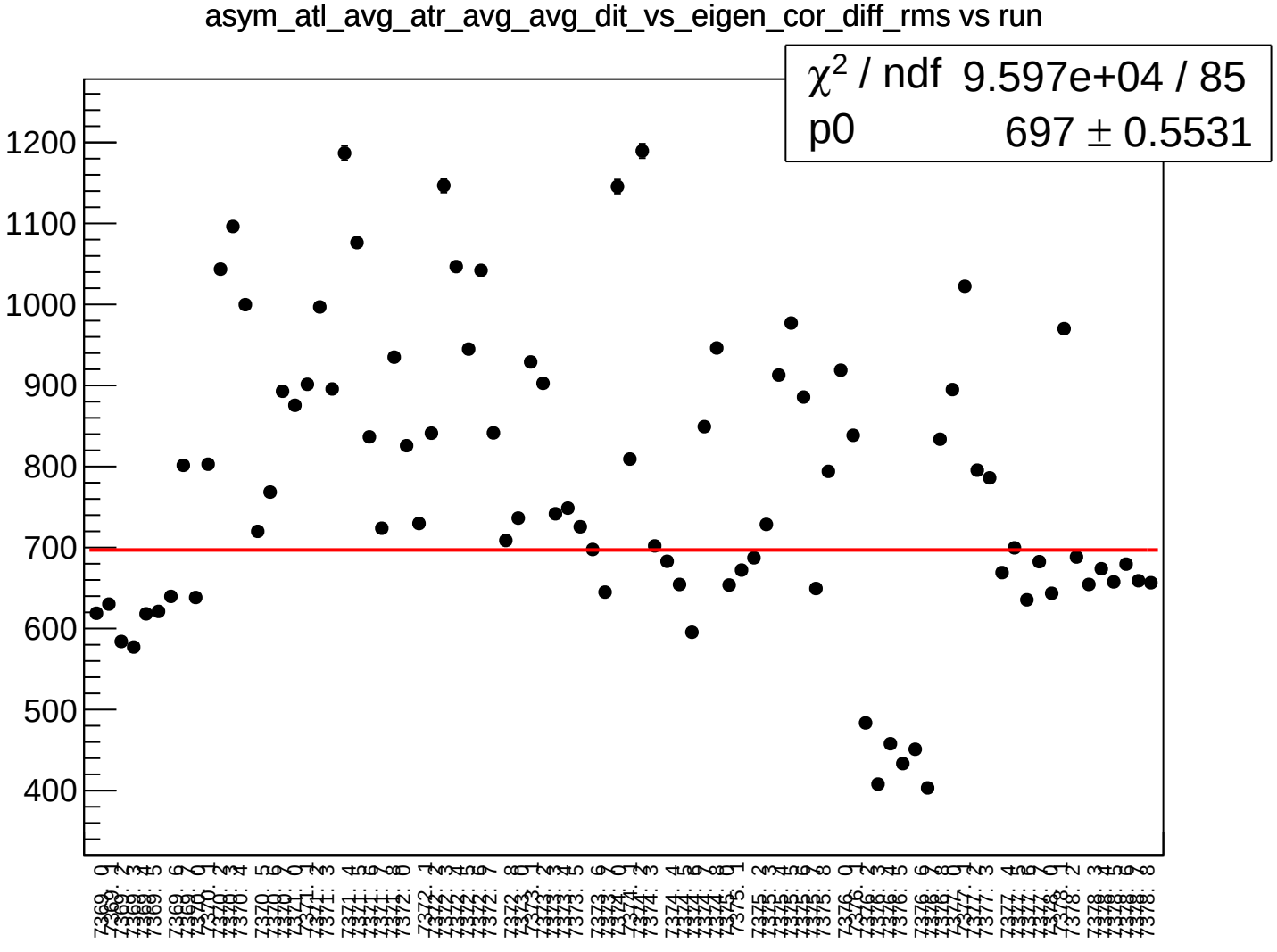

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.455e+06 / 85
p0 4.068e−11 ± 8.504e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

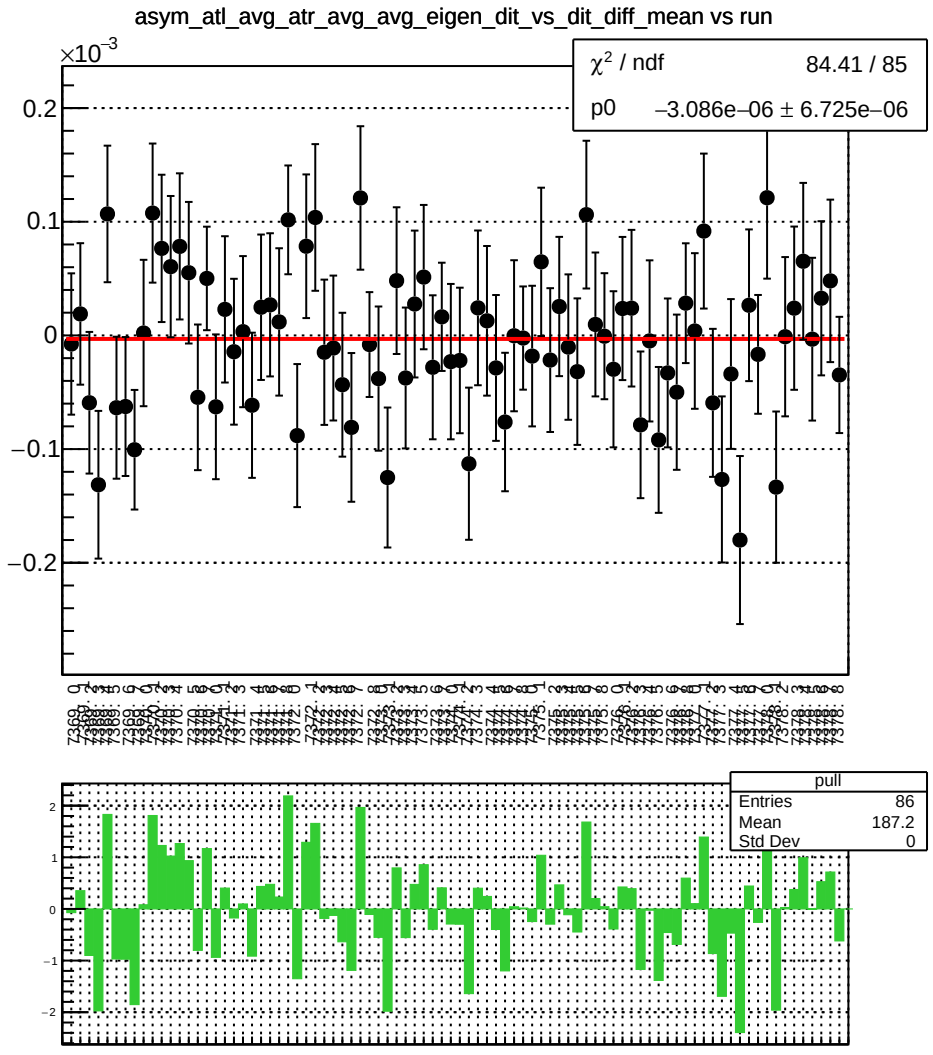

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 85
p0 −1.265 ± 0.7822
pull
Entries 86
Mean 63.35
Std Dev 0

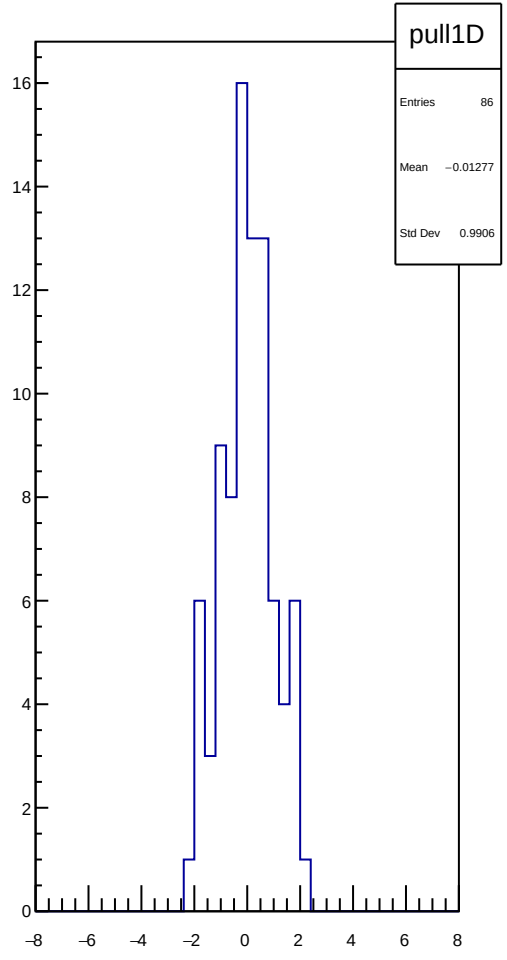

pull1D
Entries 86
Mean 0.06793
Std Dev 1.106

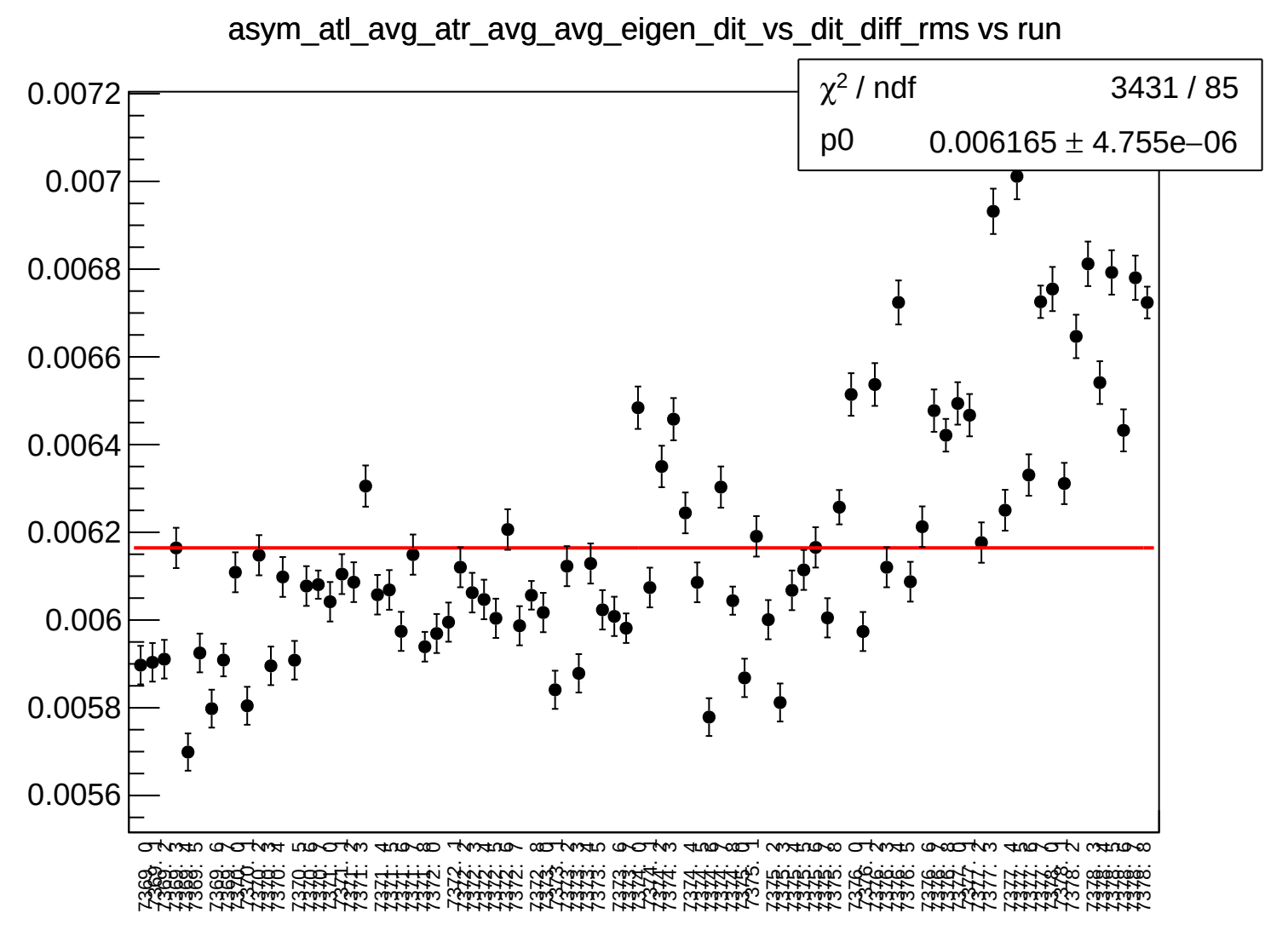

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.597e+04 / 85
p0 697 ± 0.5531
1200
1100
1000
900
800
700
600
500
400

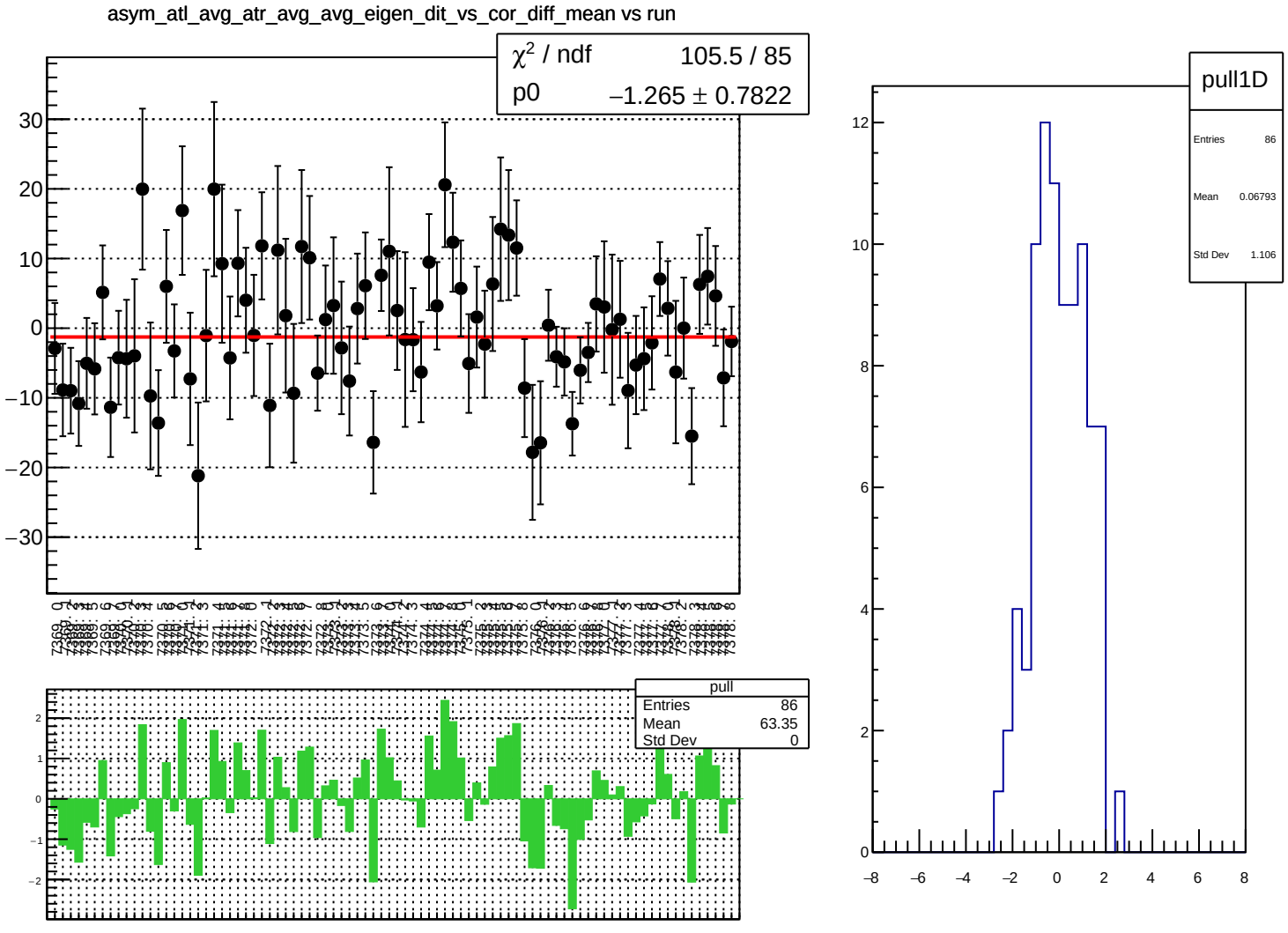

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 85
p0 −1.265 ± 0.7822
pull
Entries 86
Mean 63.35
Std Dev 0
pull1D
Entries 86
Mean 0.06793
Std Dev 1.106

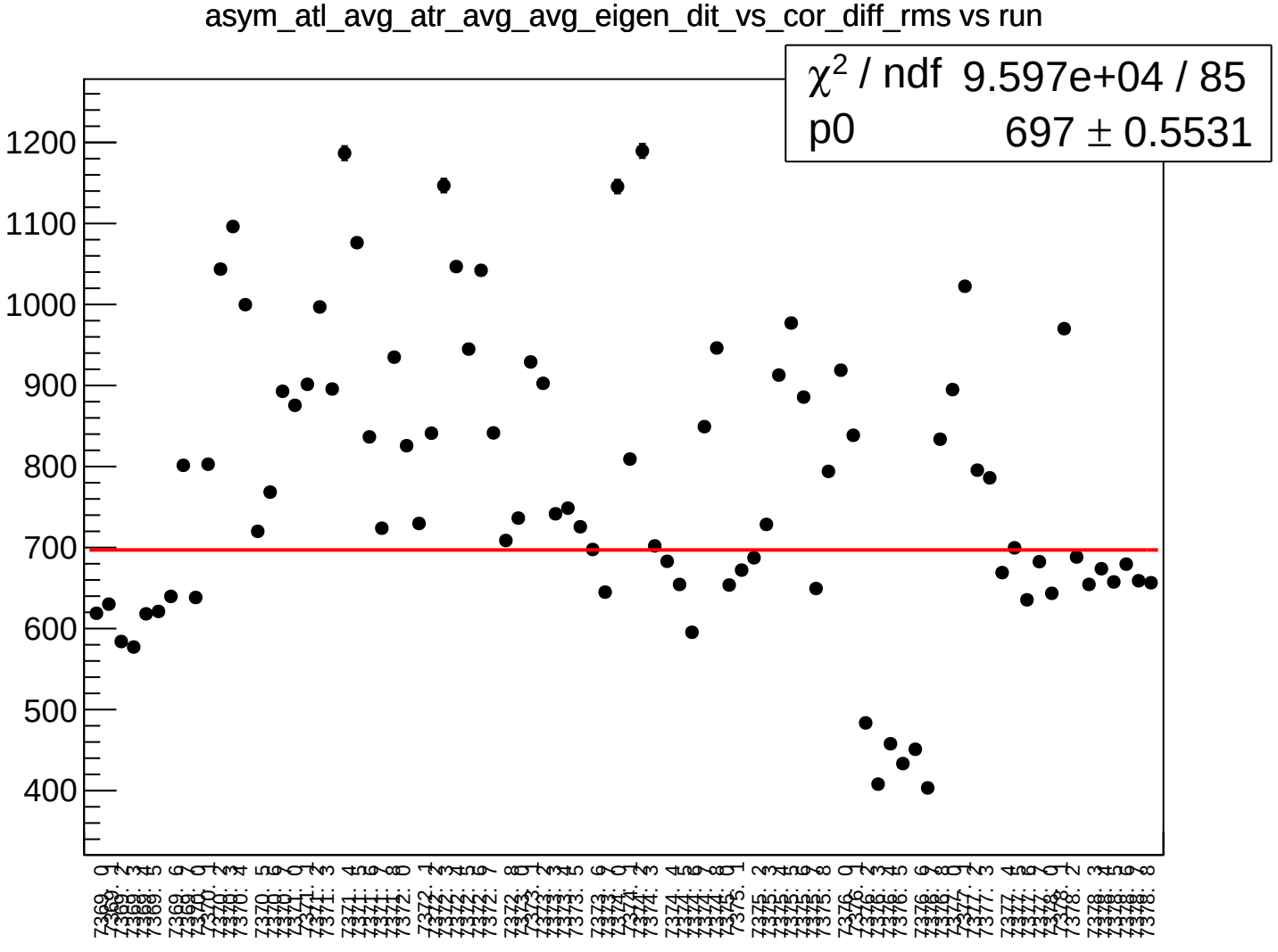

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.597e+04 / 85
p0 697 ± 0.5531
1200
1100
1000
900
800
700
600
500
400

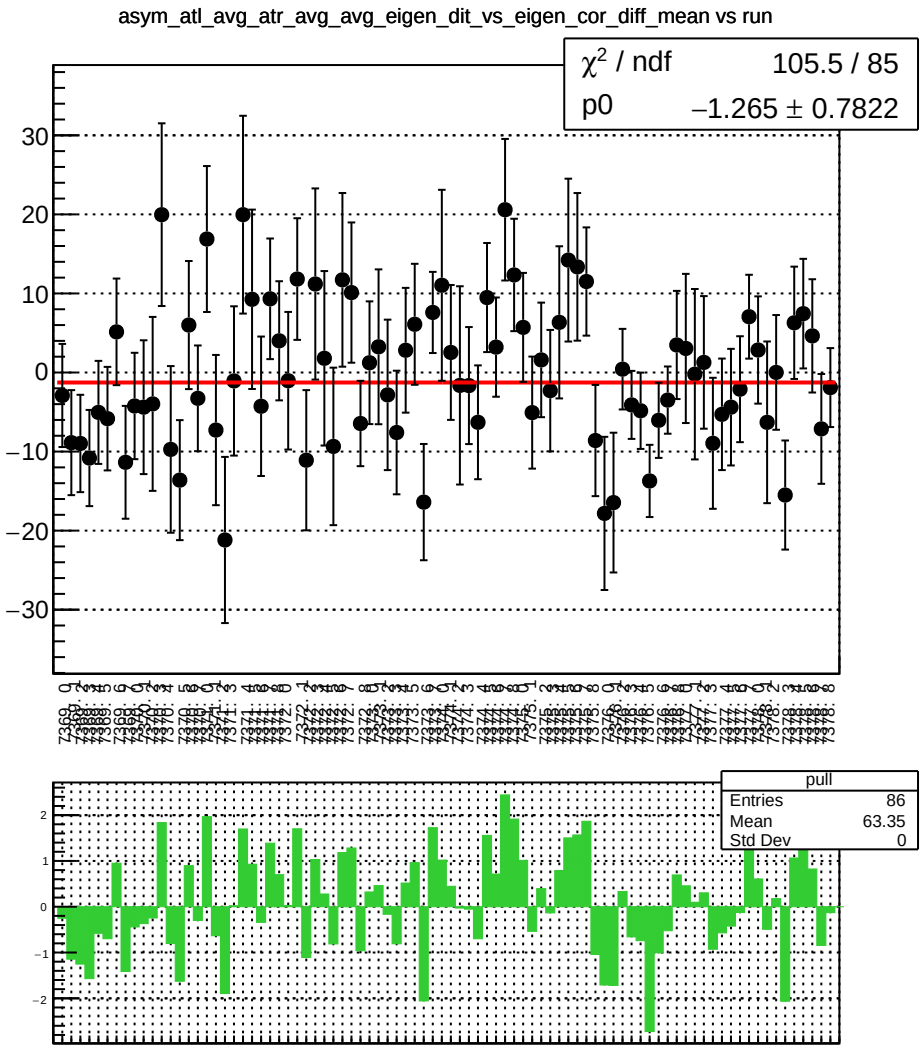

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.41 / 85
p0 −3.086e−06 ± 6.725e−06
pull
Entries 86
Mean 187.2
Std Dev 0

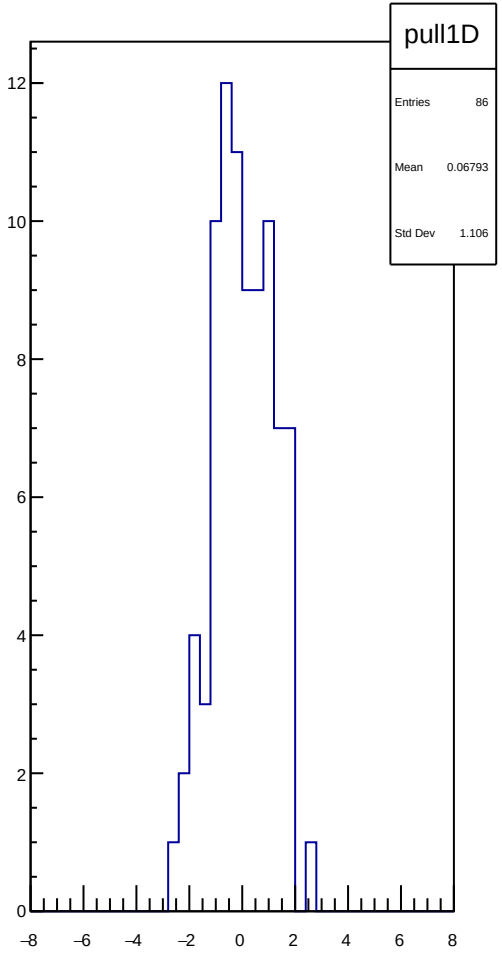

pull1D
Entries 86
Mean −0.01277
Std Dev 0.9906

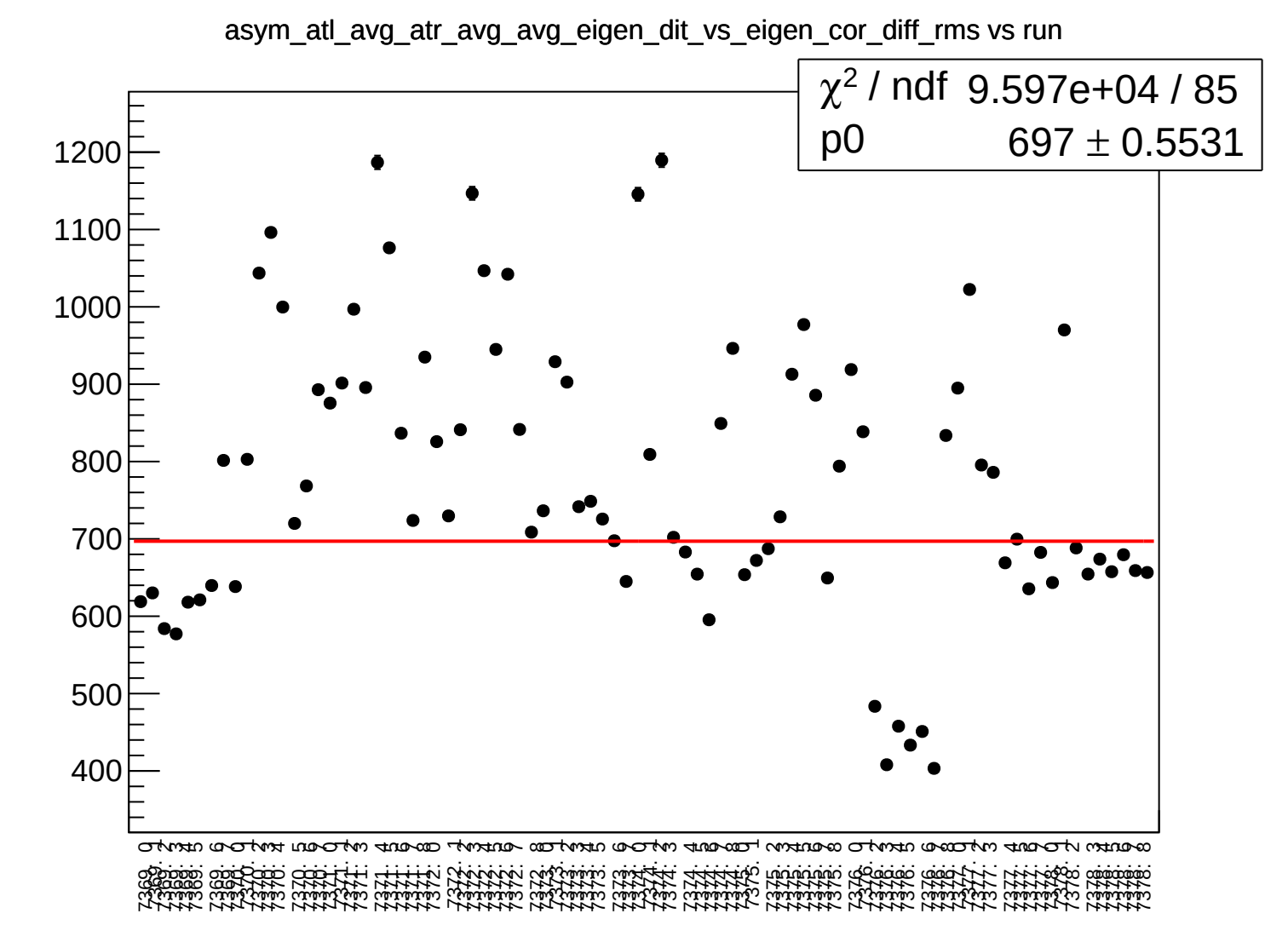

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3431 / 85
p0 0.006165 ± 4.755e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

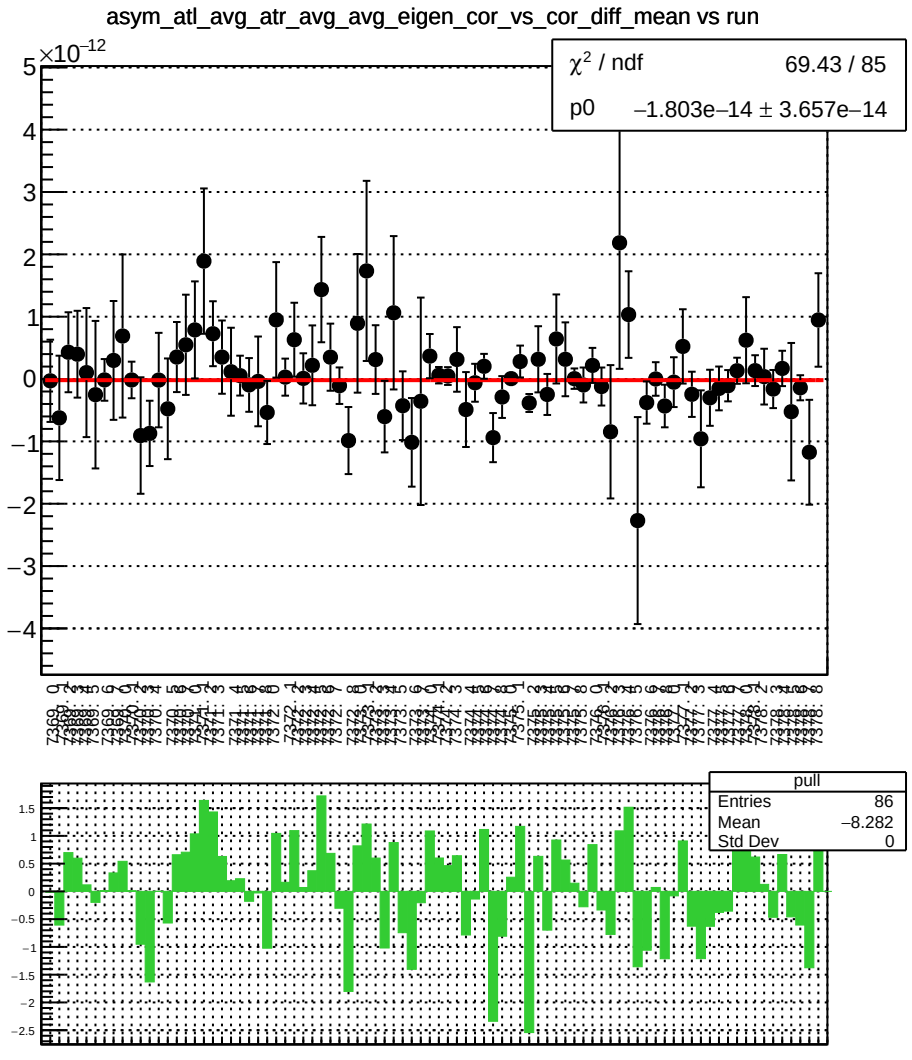

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 85
p0 −1.265 ± 0.7822
pull
Entries 86
Mean 63.35
Std Dev 0
pull1D
Entries 86
Mean 0.06793
Std Dev 1.106

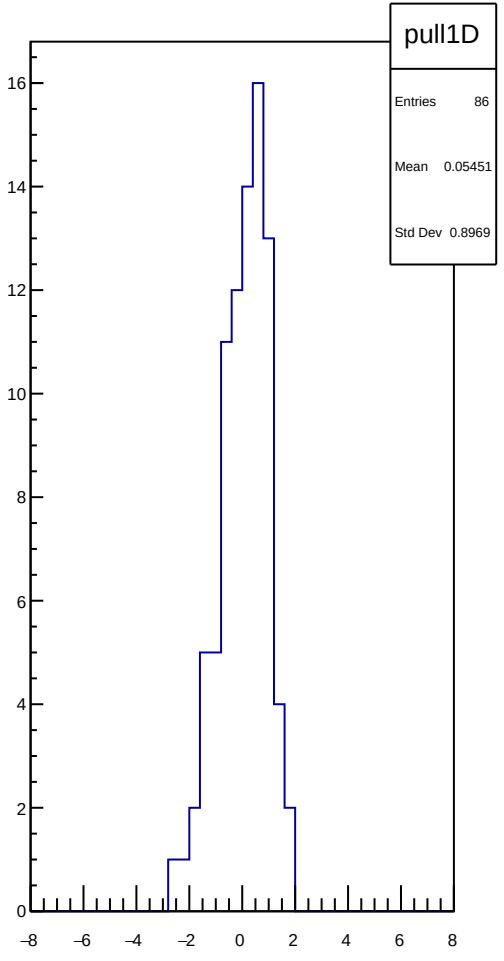

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.597e+04 / 85
p0 697 ± 0.5531
1200
1100
1000
900
800
700
600
500
400

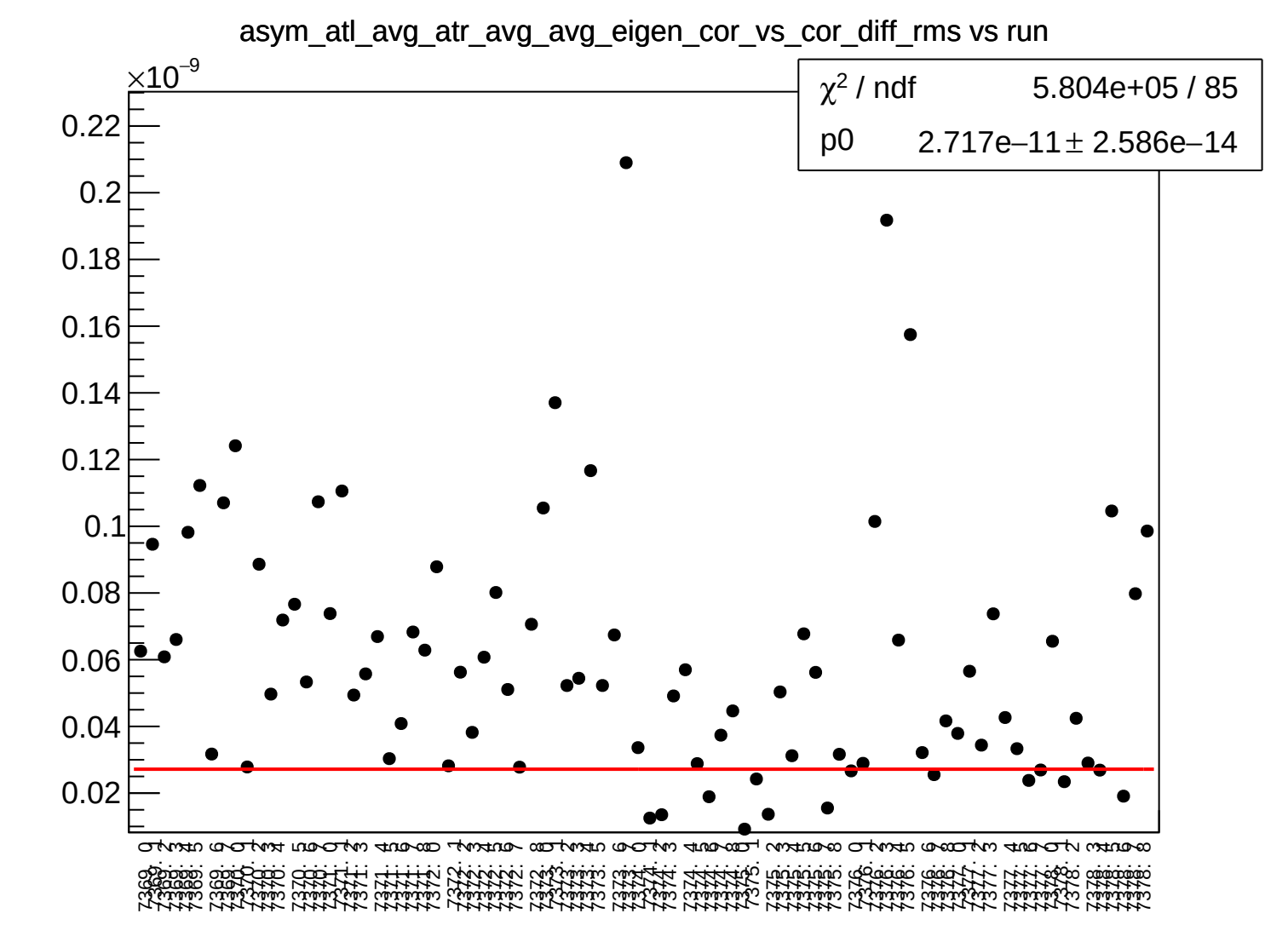

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 85
p0 −1.265 ± 0.7822
pull
Entries 86
Mean 63.35
Std Dev 0

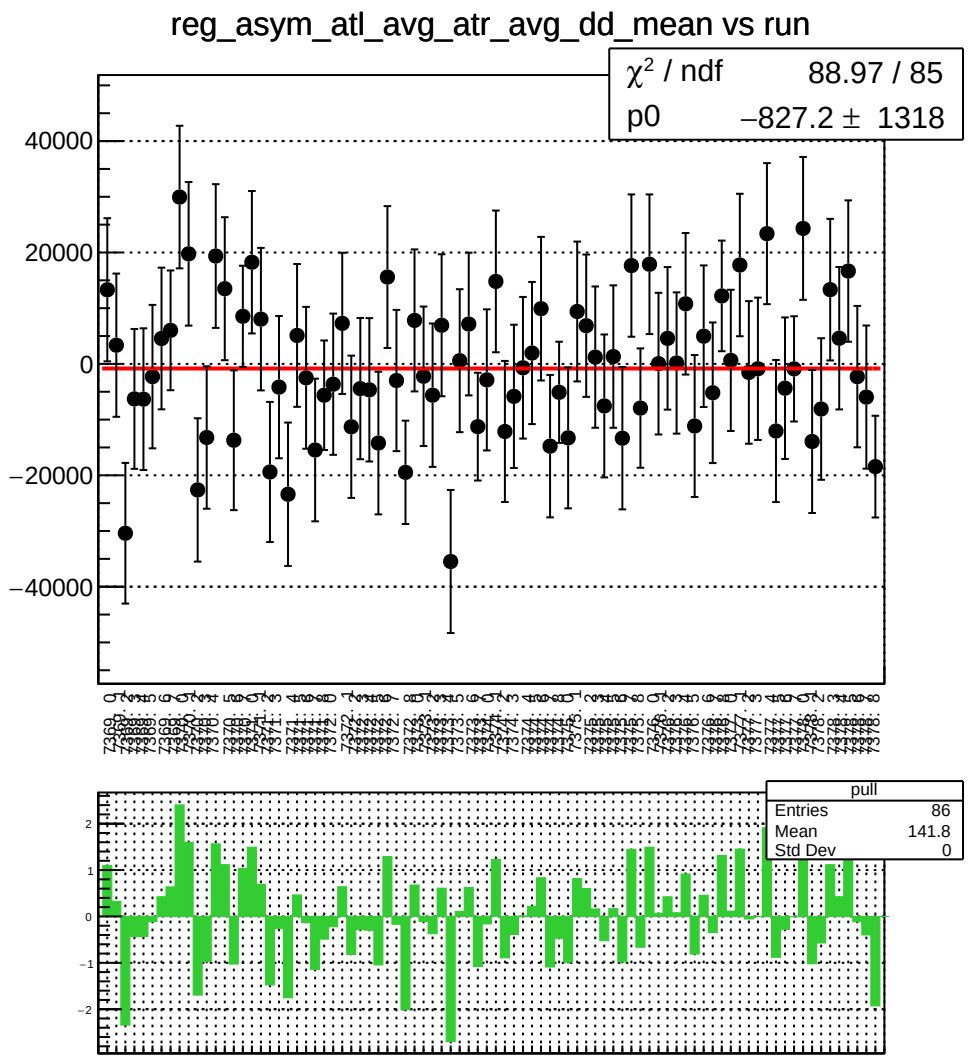

pull1D
Entries 86
Mean 0.06793
Std Dev 1.106

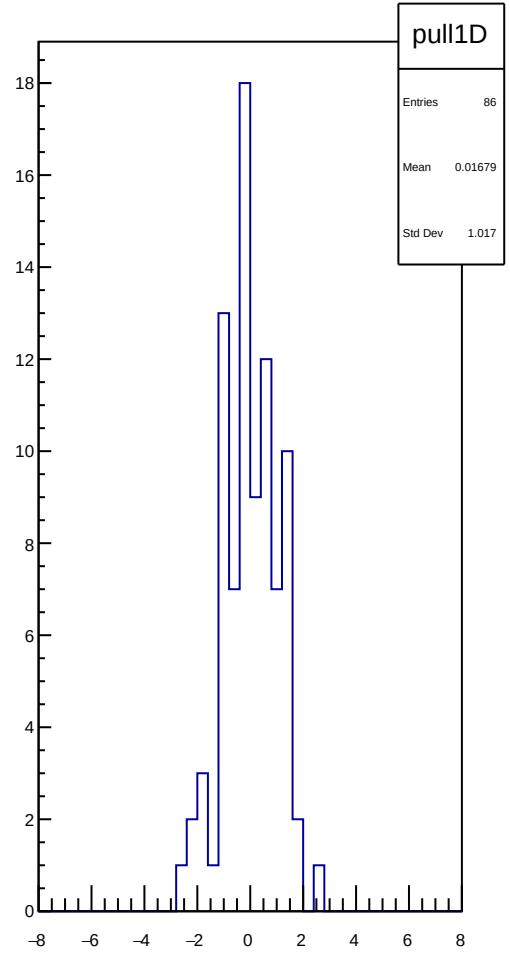

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.597e+04 / 85
p0 697 ± 0.5531
1200
1100
1000
900
800
700
600
500
400

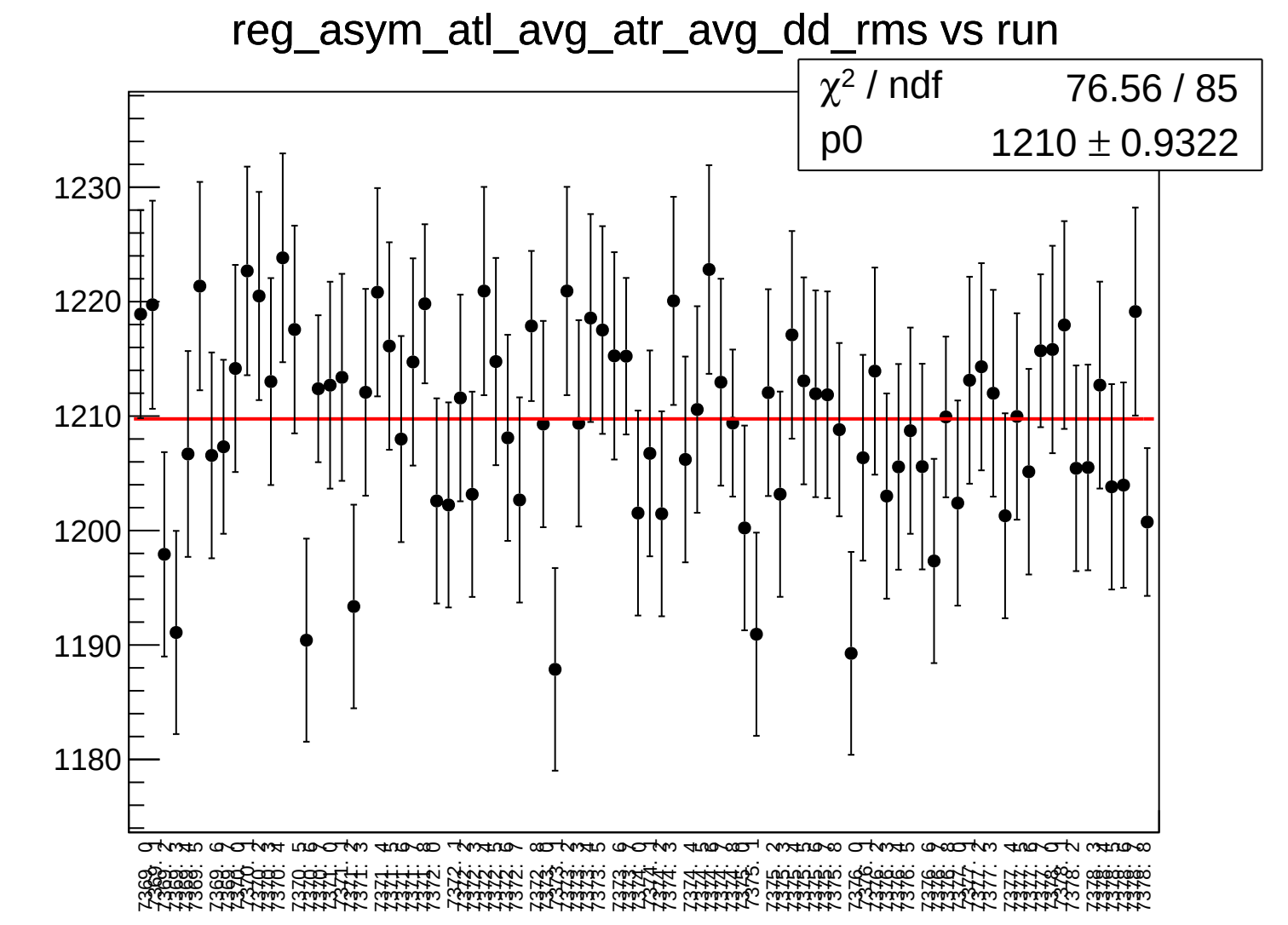

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.43 / 85
p0 −1.803e−14 ± 3.657e−14
pull
Entries 86
Mean −8.282
Std Dev 0

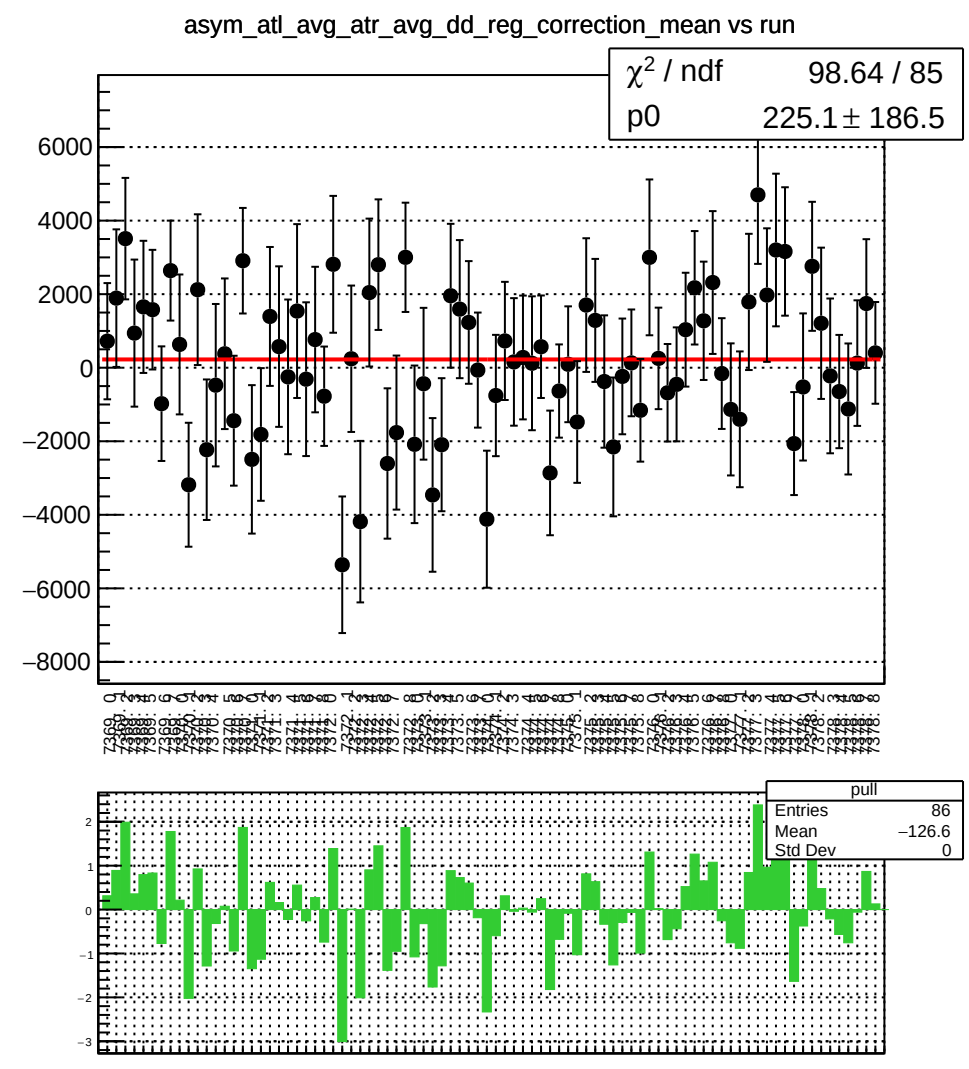

pull1D
Entries 86
Mean 0.05451
Std Dev 0.8969

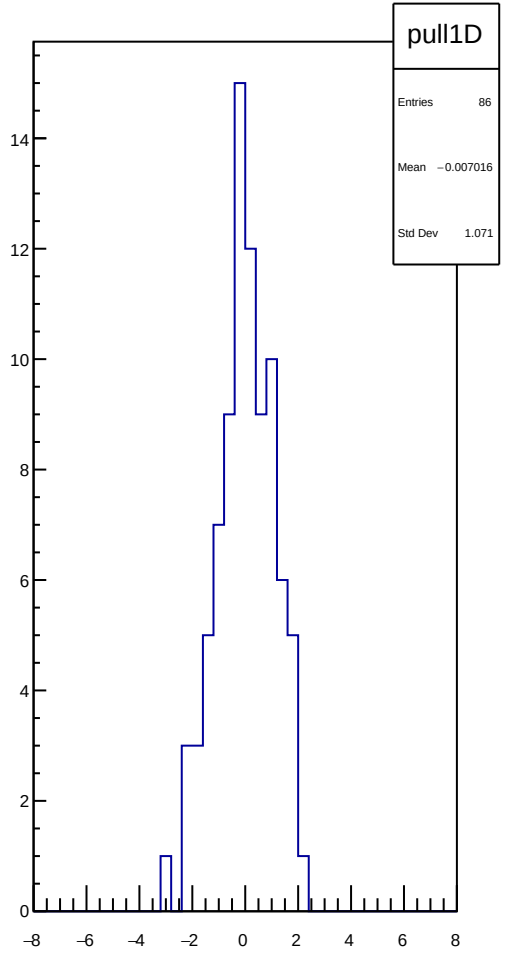

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.804e+05 / 85
p0 2.717e−11 ± 2.586e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

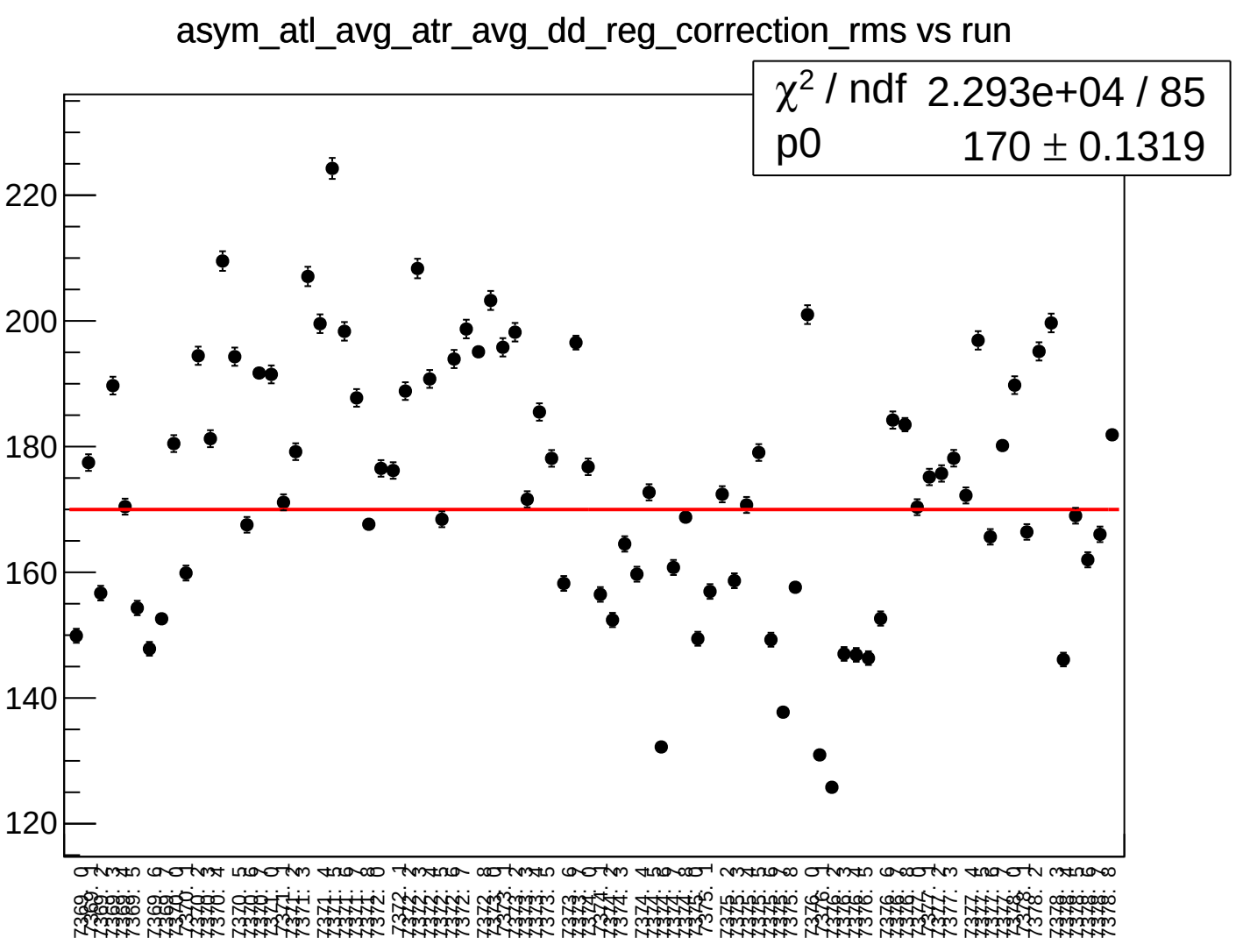

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.97 / 85
p0 −827.2 ± 1318
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 141.8
Std Dev 0
2
1
0
−1
−2

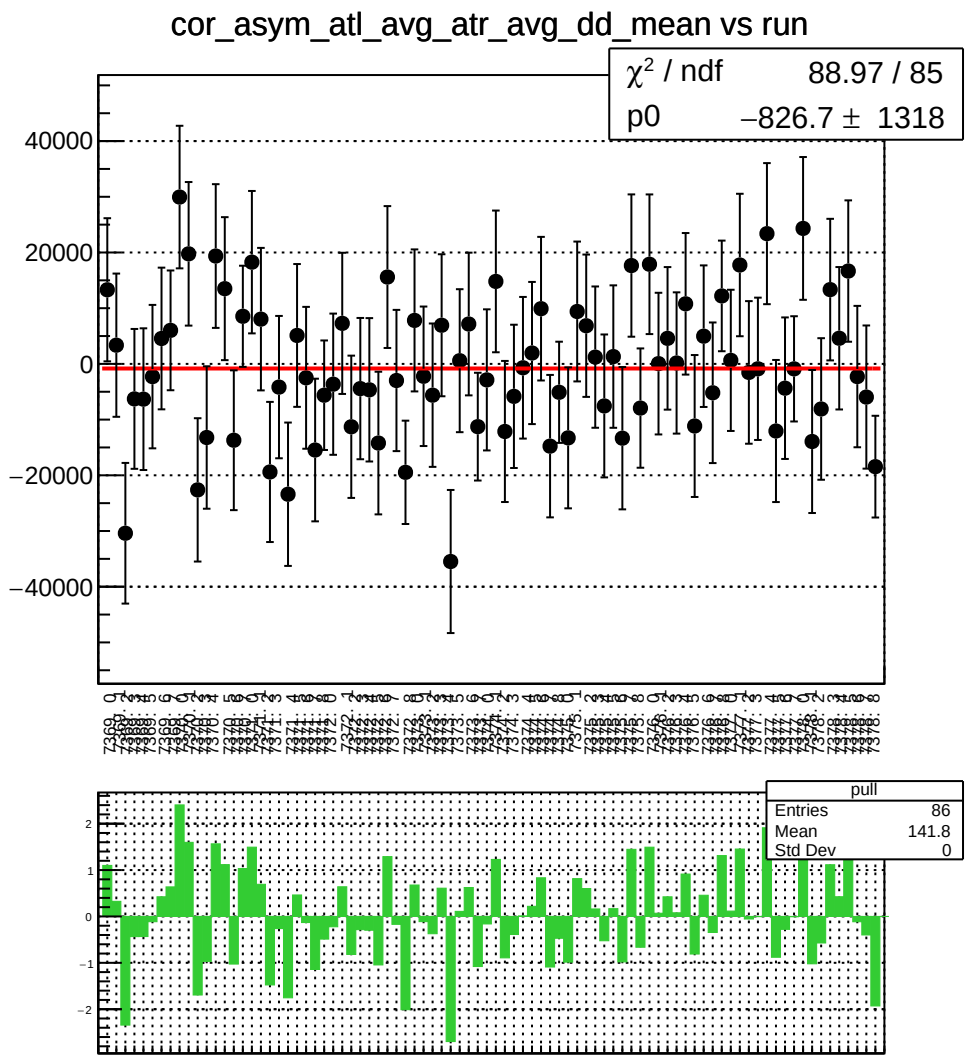

pull1D
Entries 86
Mean 0.01679
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

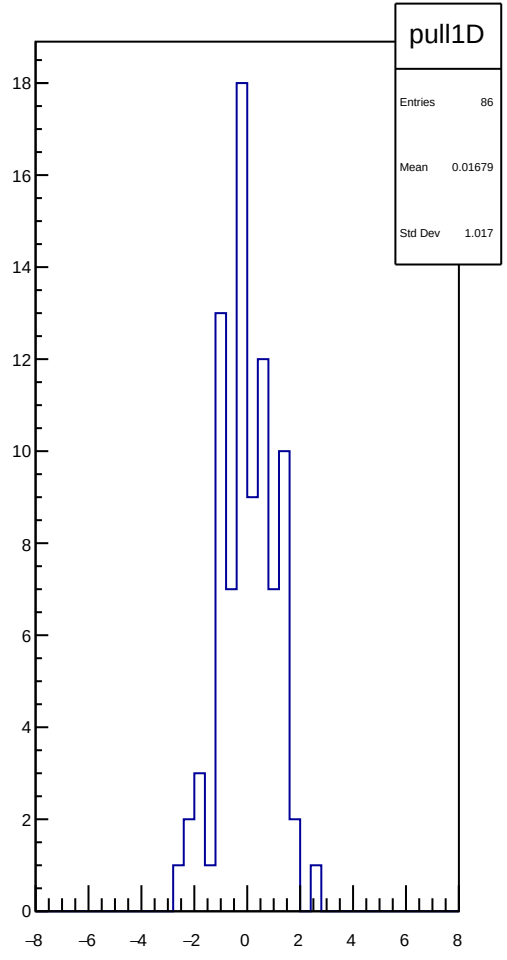

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 76.56 / 85
p0 1210 ± 0.9322
1230
1220
1210
1200
1190
1180

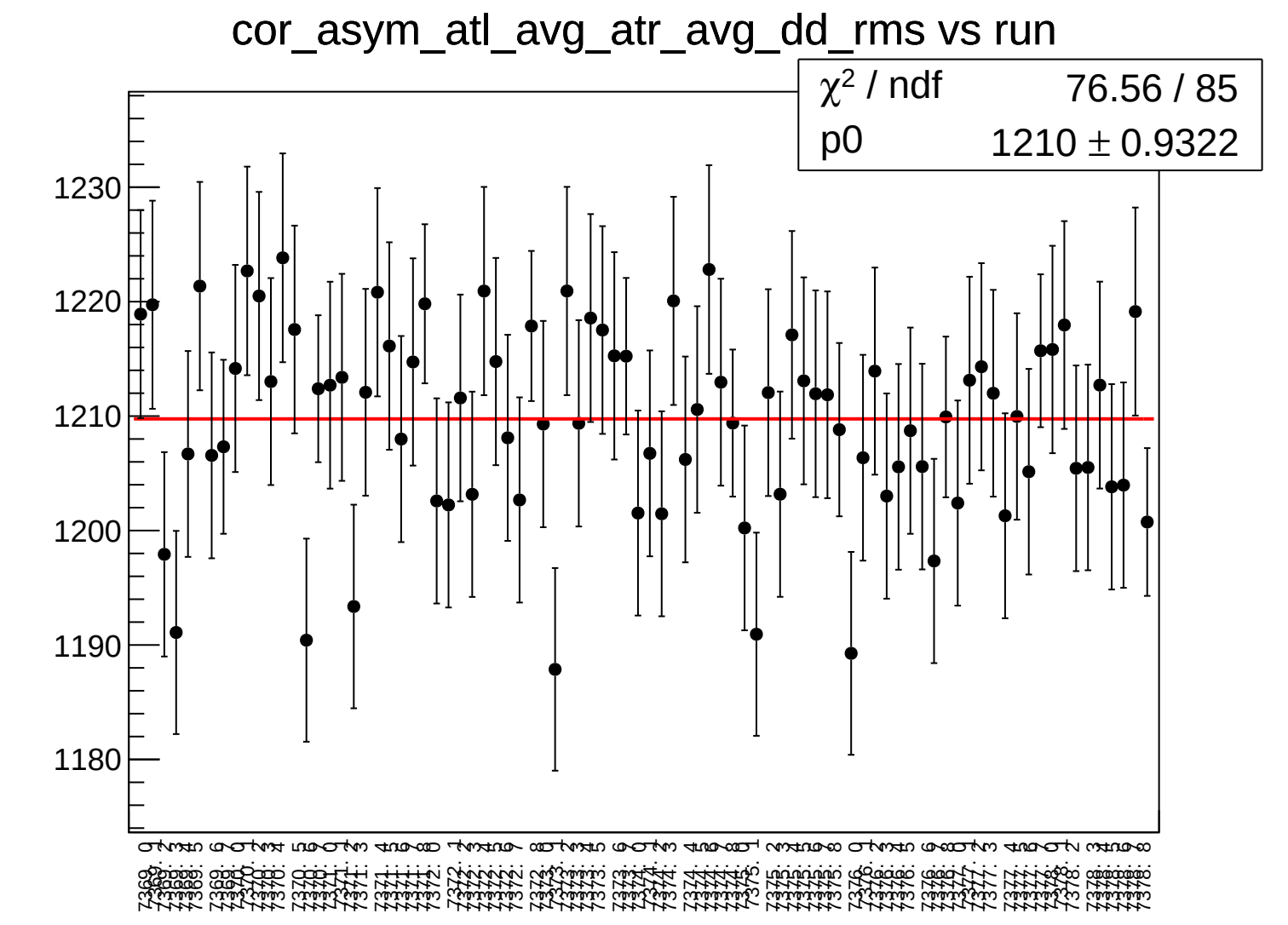

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 98.64 / 85
p0 225.1 ± 186.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −126.6
Std Dev 0
2
1
0
−1
−2
−3

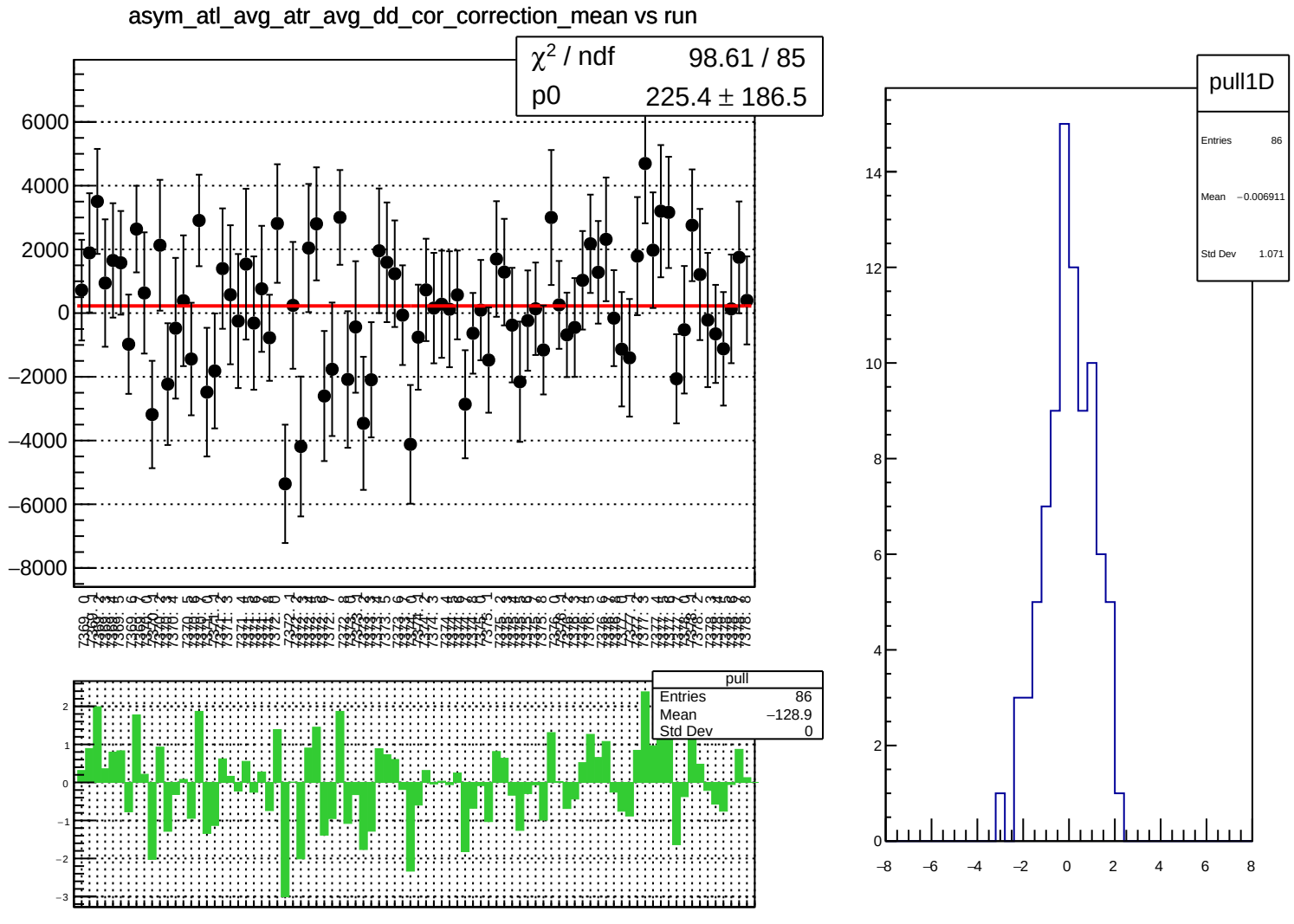

pull1D
Entries 86
Mean −0.007016
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

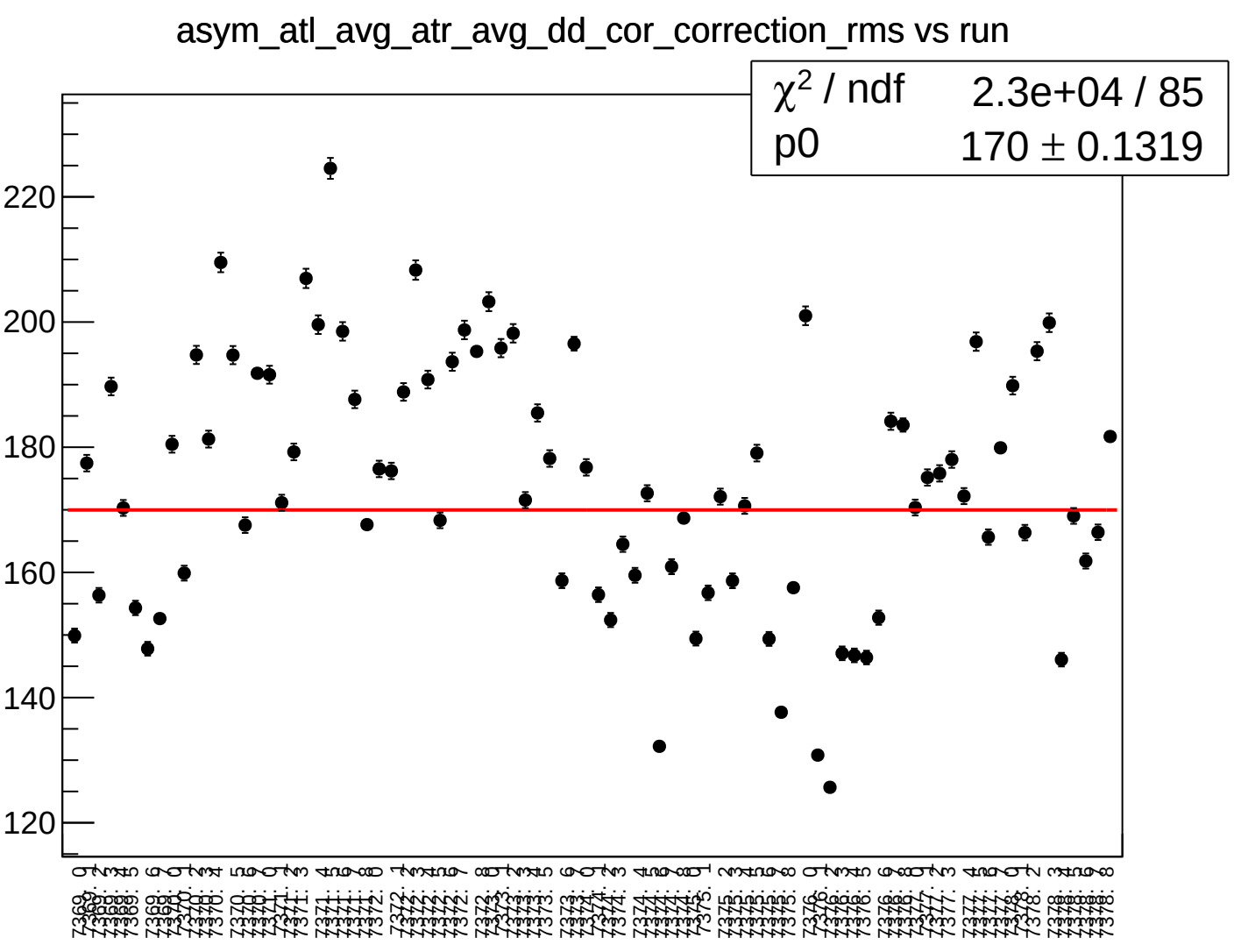

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.293e+04 / 85
p0 170 ± 0.1319
220
200
180
160
140
120

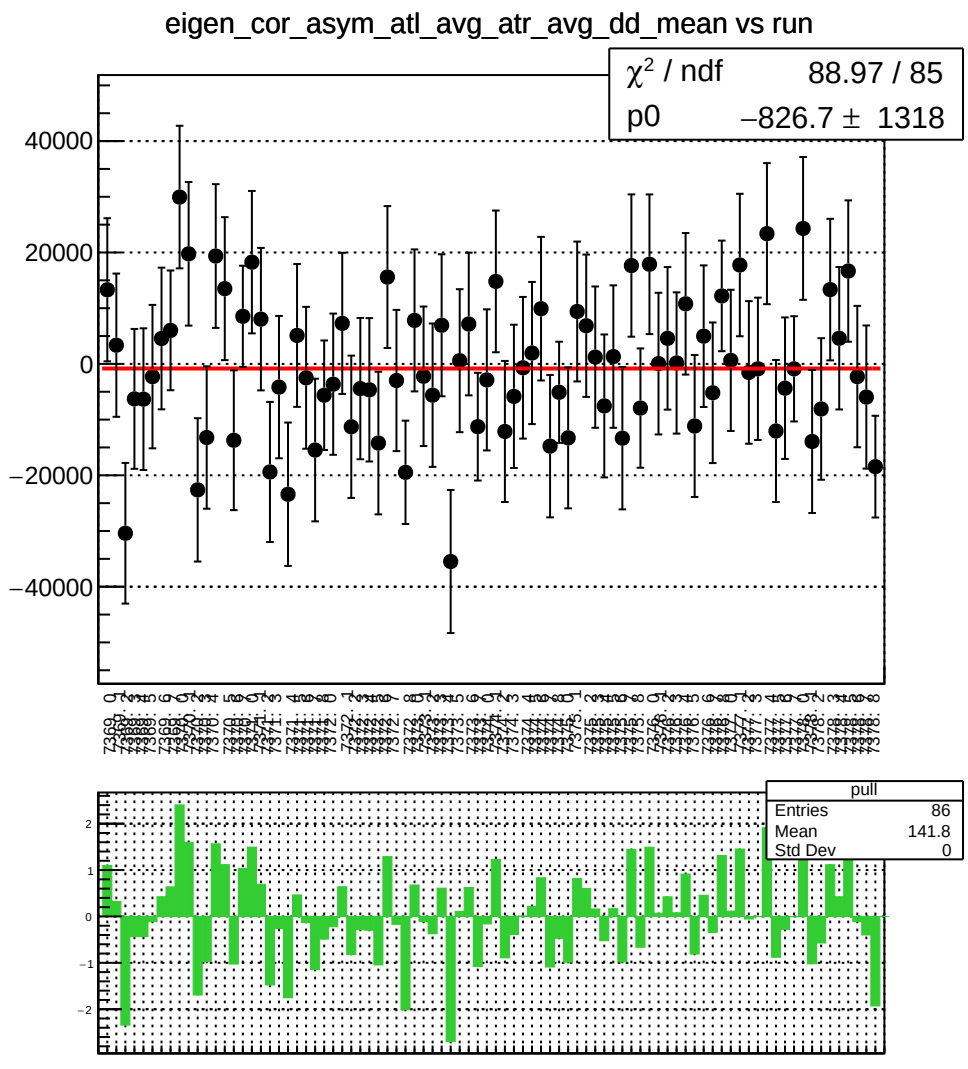

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.97 / 85
p0 −826.7 ± 1318
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 141.8
Std Dev 0
2
1
0
−1
−2

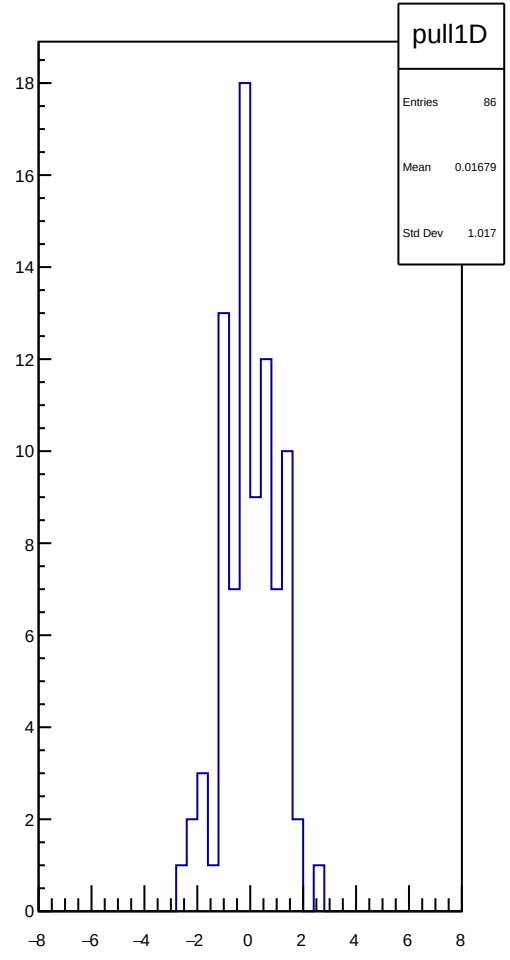

pull1D
Entries 86
Mean 0.01679
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

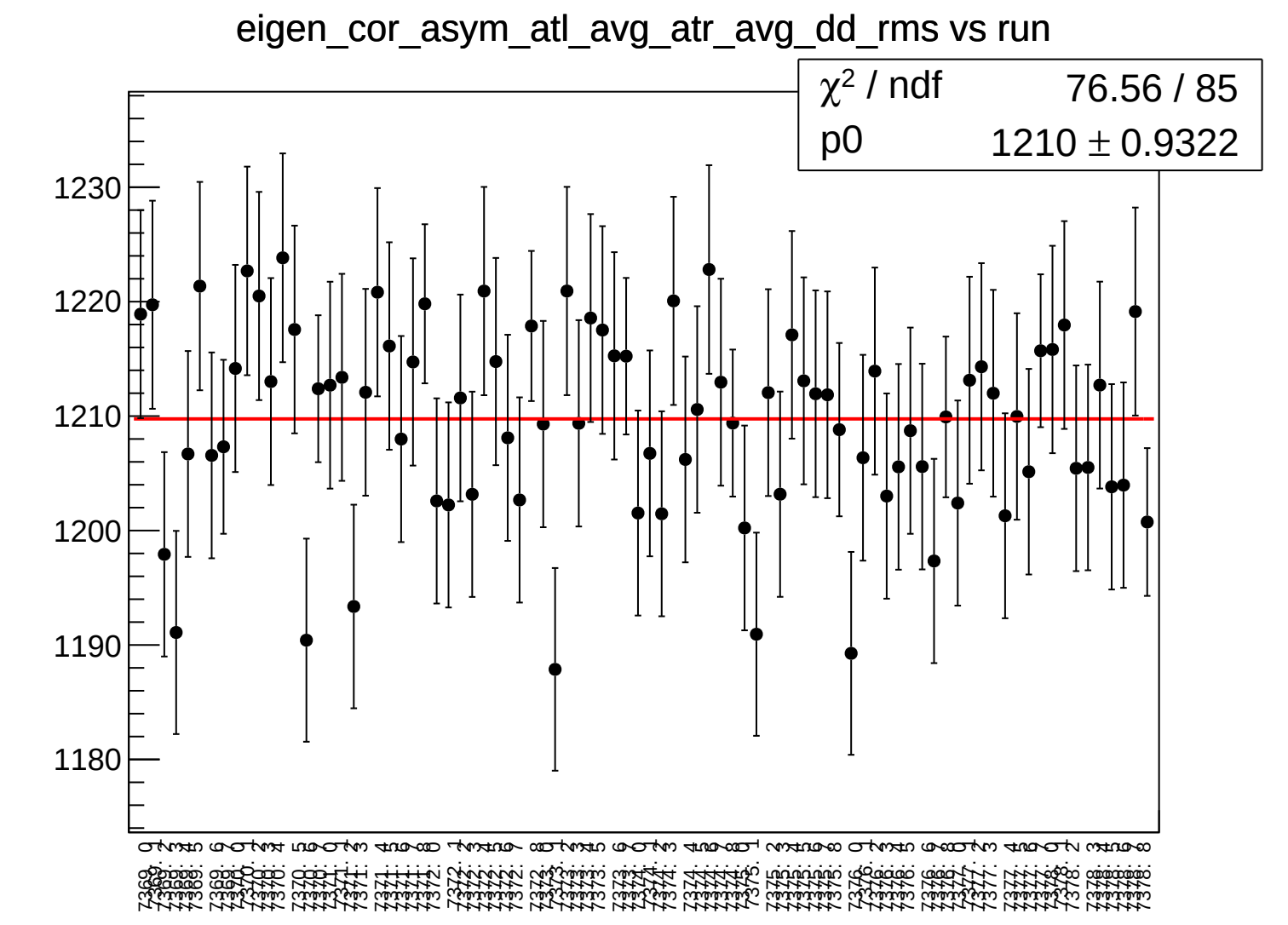

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 76.56 / 85
p0 1210 ± 0.9322
1230
1220
1210
1200
1190
1180

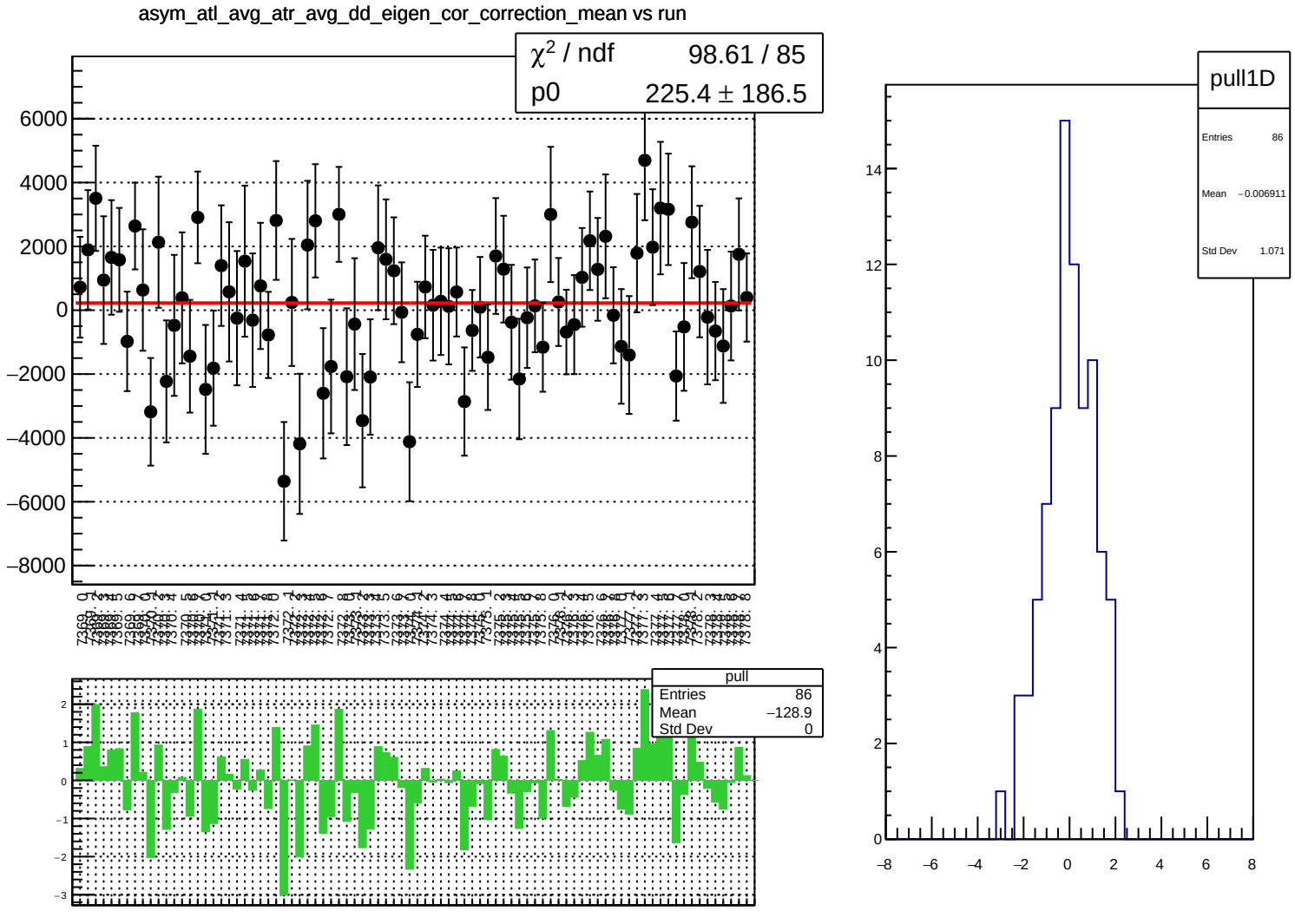

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 98.61 / 85
p0 225.4 ± 186.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −128.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.006911
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

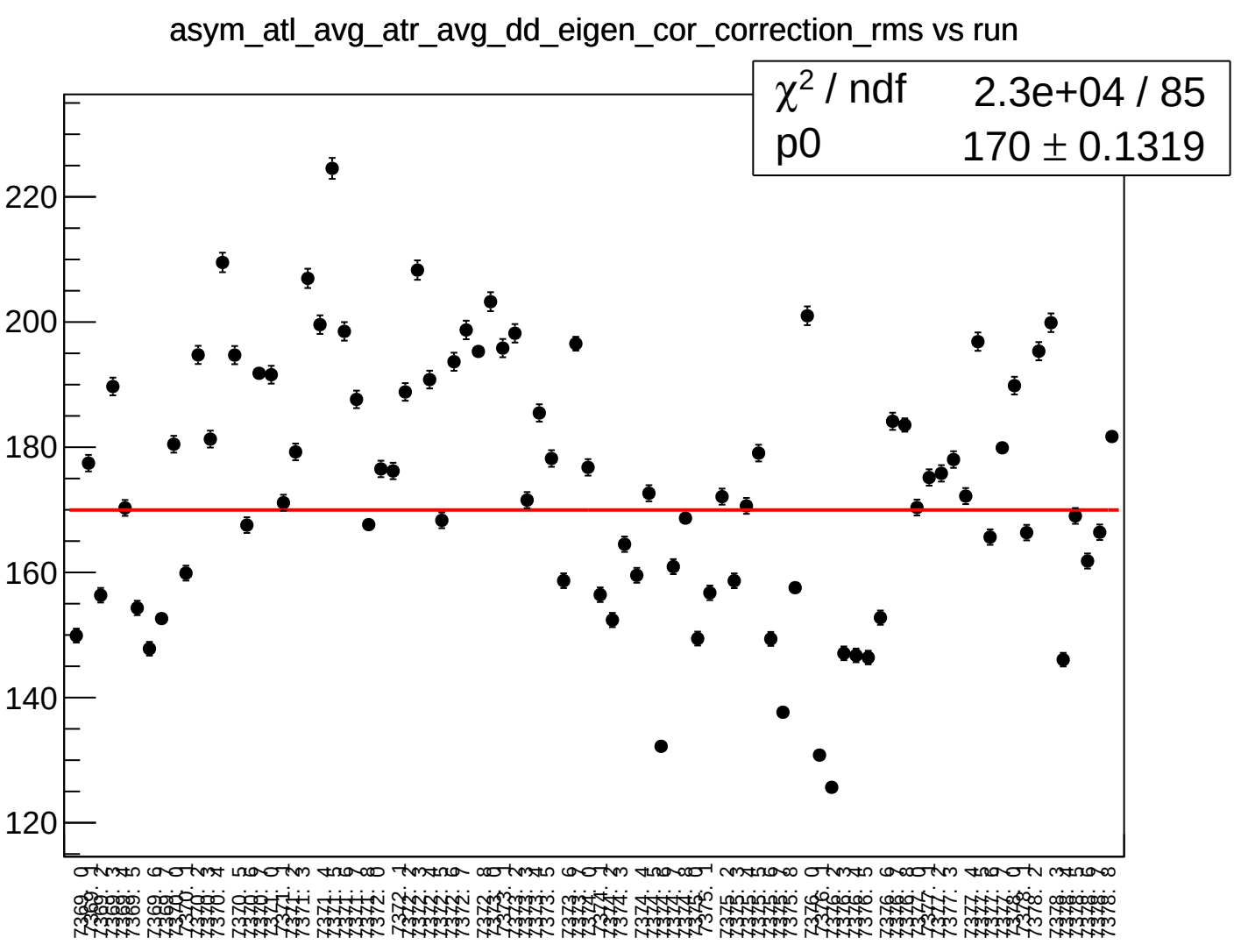

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.3e+04 / 85
p0 170 ± 0.1319
220
200
180
160
140
120

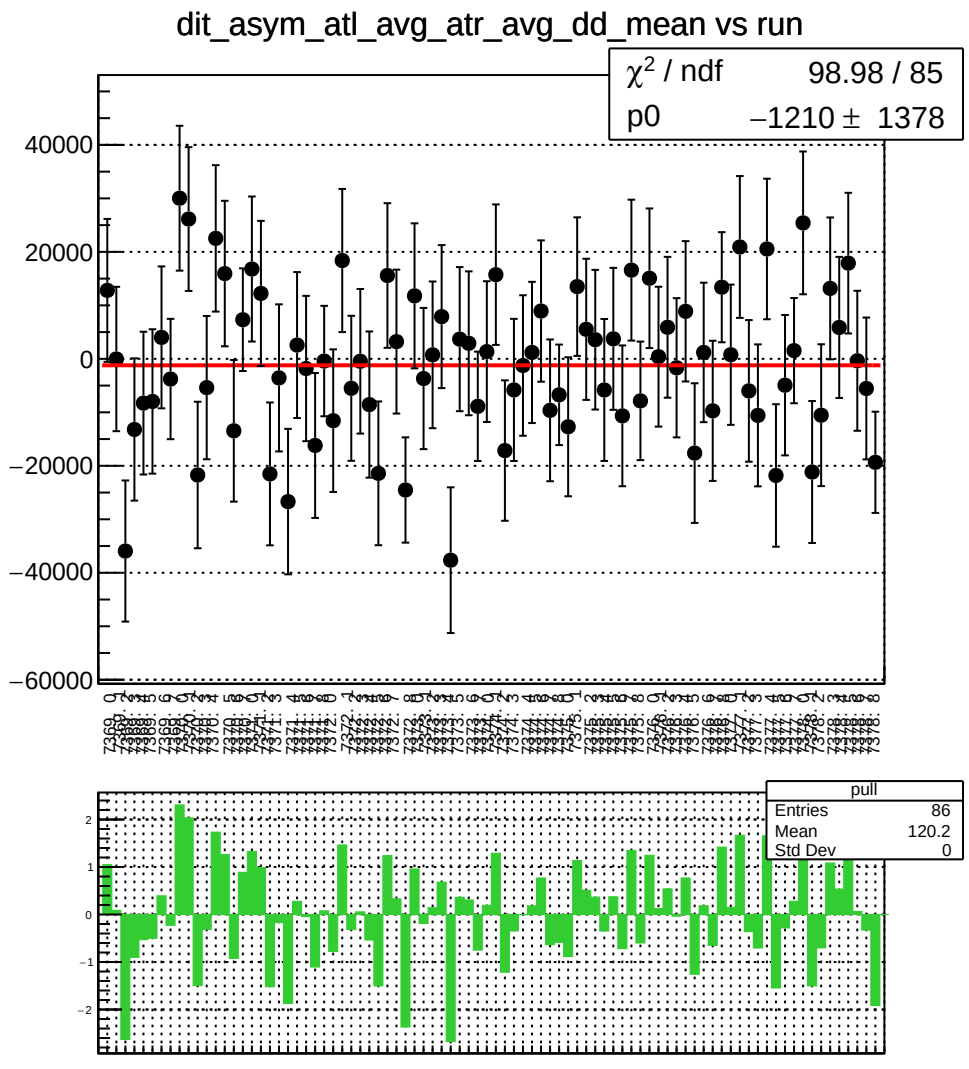

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.97 / 85
p0 −826.7 ± 1318
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 141.8
Std Dev 0
2
1
0
−1
−2

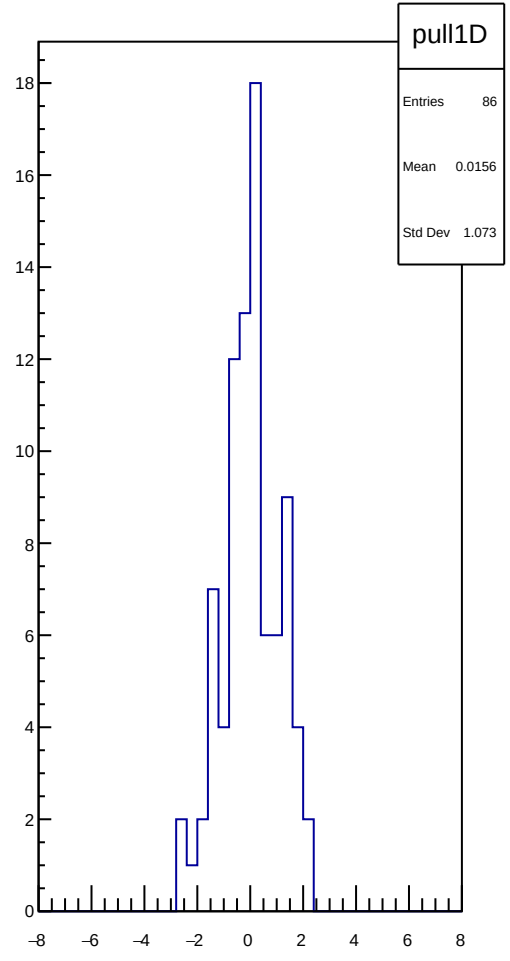

pull1D
Entries 86
Mean 0.01679
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

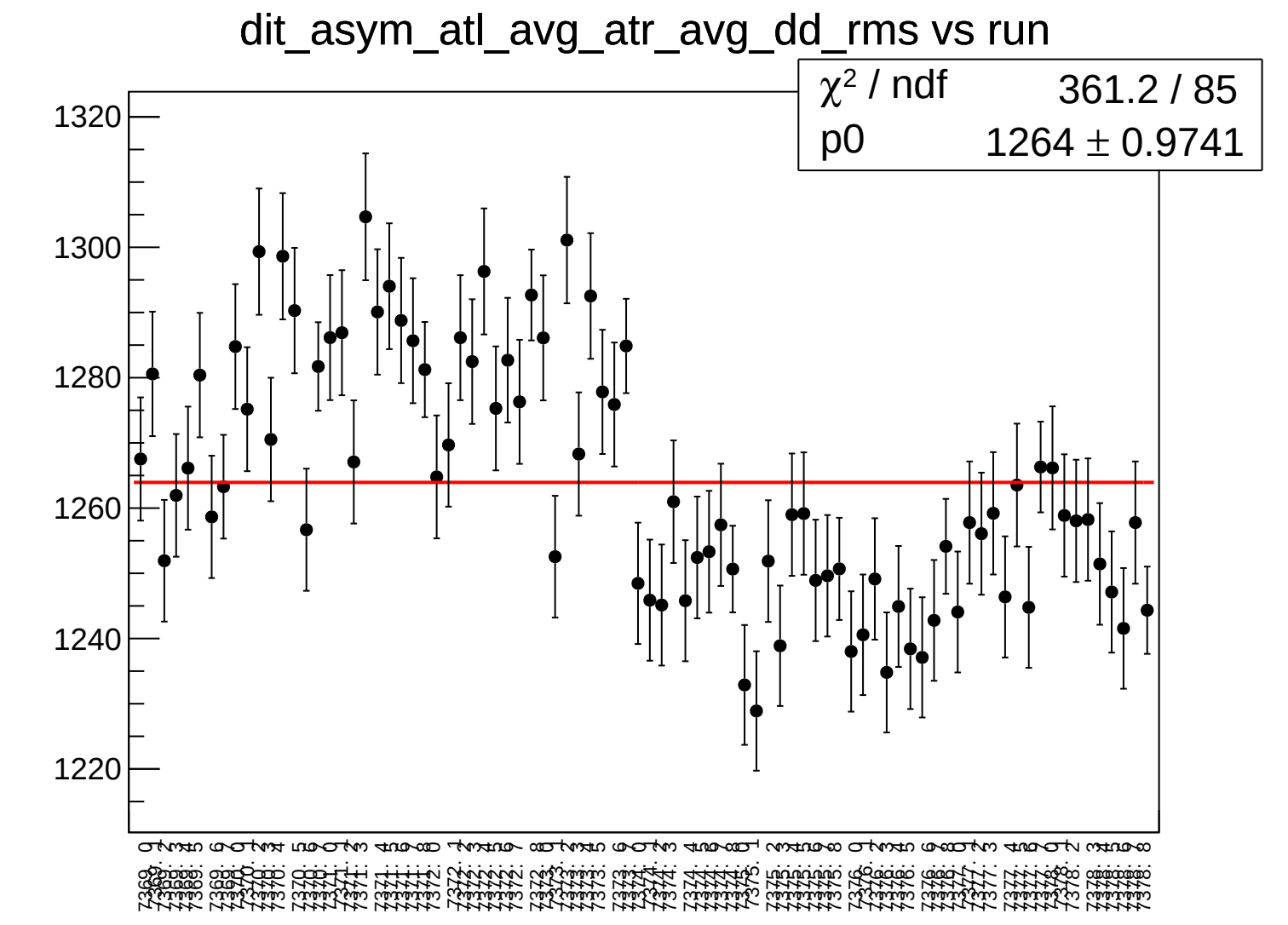

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 76.56 / 85
p0 1210 ± 0.9322
1230
1220
1210
1200
1190
1180

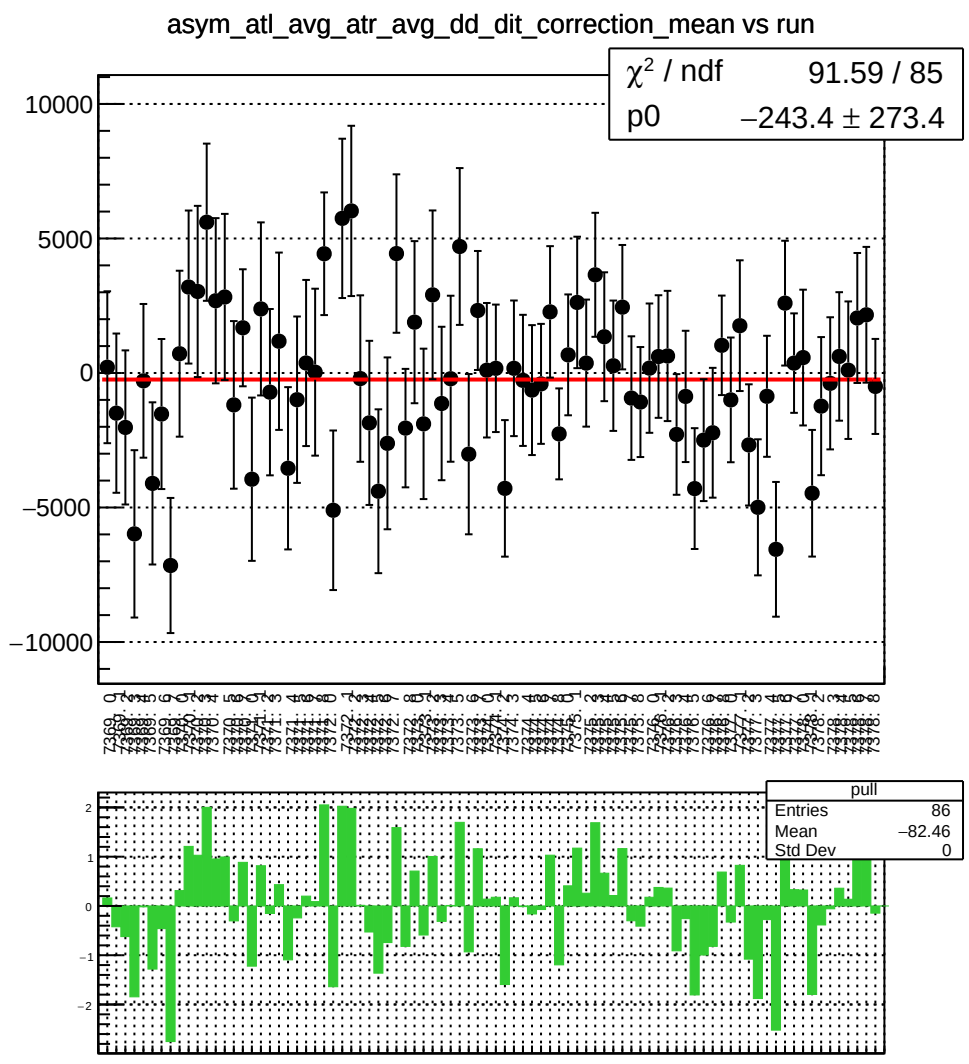

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.61 / 85
p0 225.4 ± 186.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −128.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.006911
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

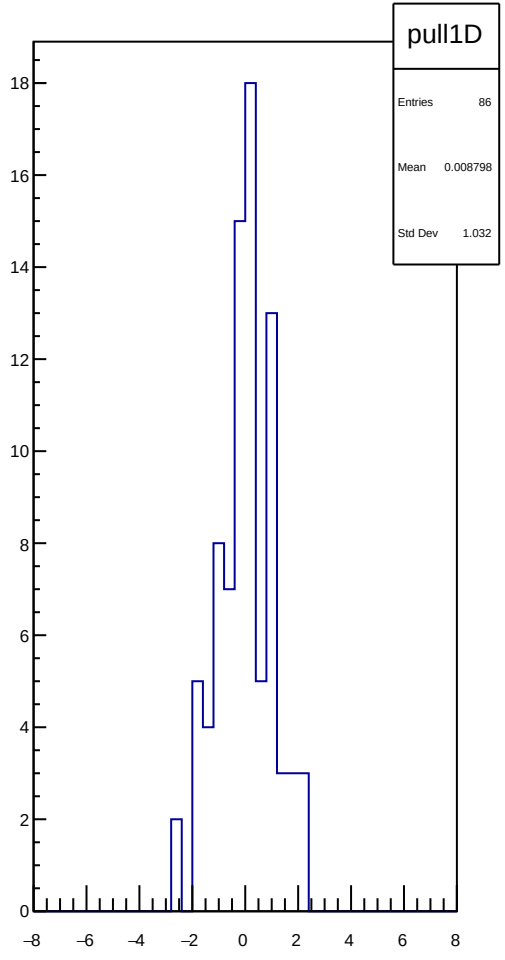

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.3e+04 / 85
p0 170 ± 0.1319
220
200
180
160
140
120

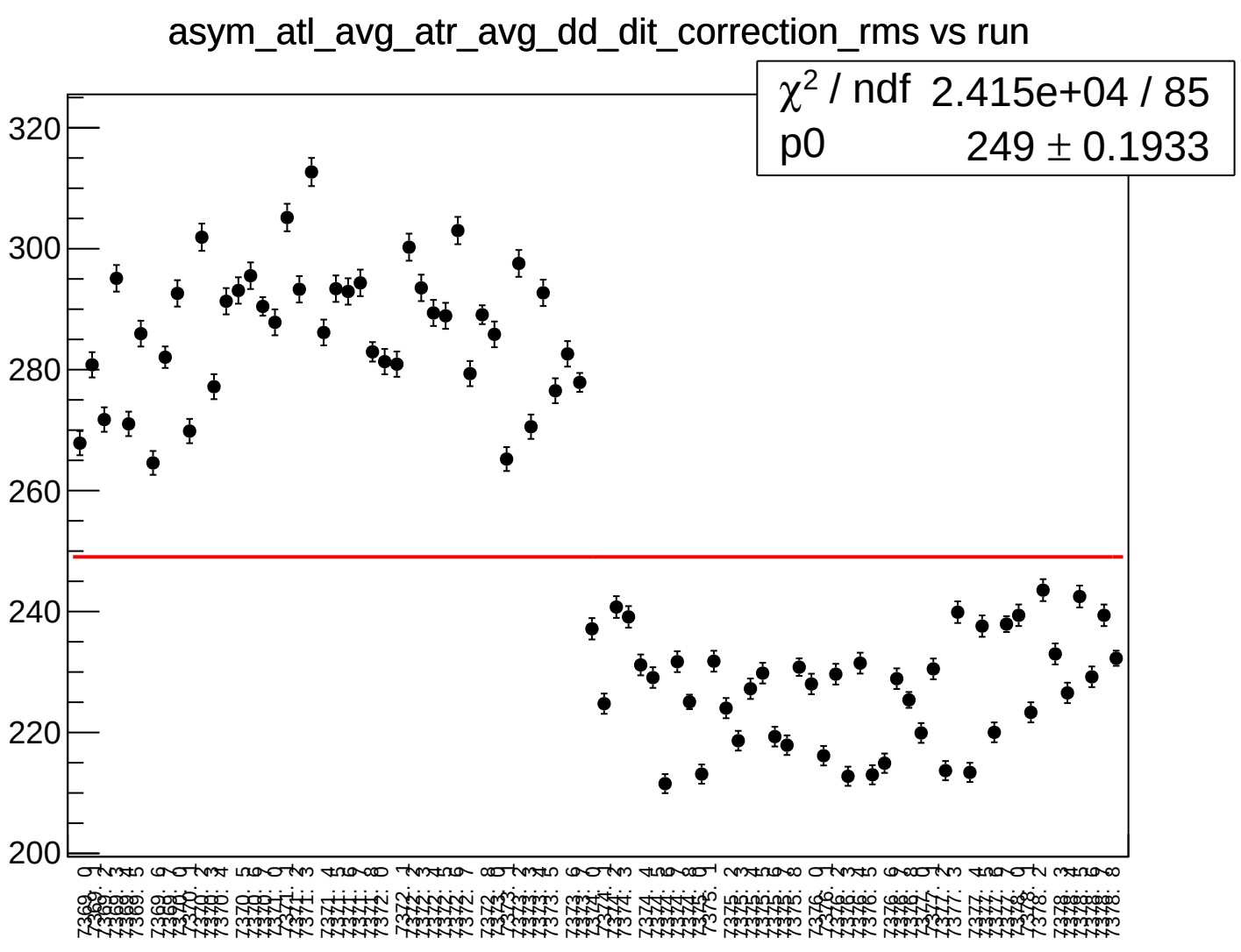

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 98.98 / 85
p0 −1210 ± 1378
pull
Entries 86
Mean 120.2
Std Dev 0

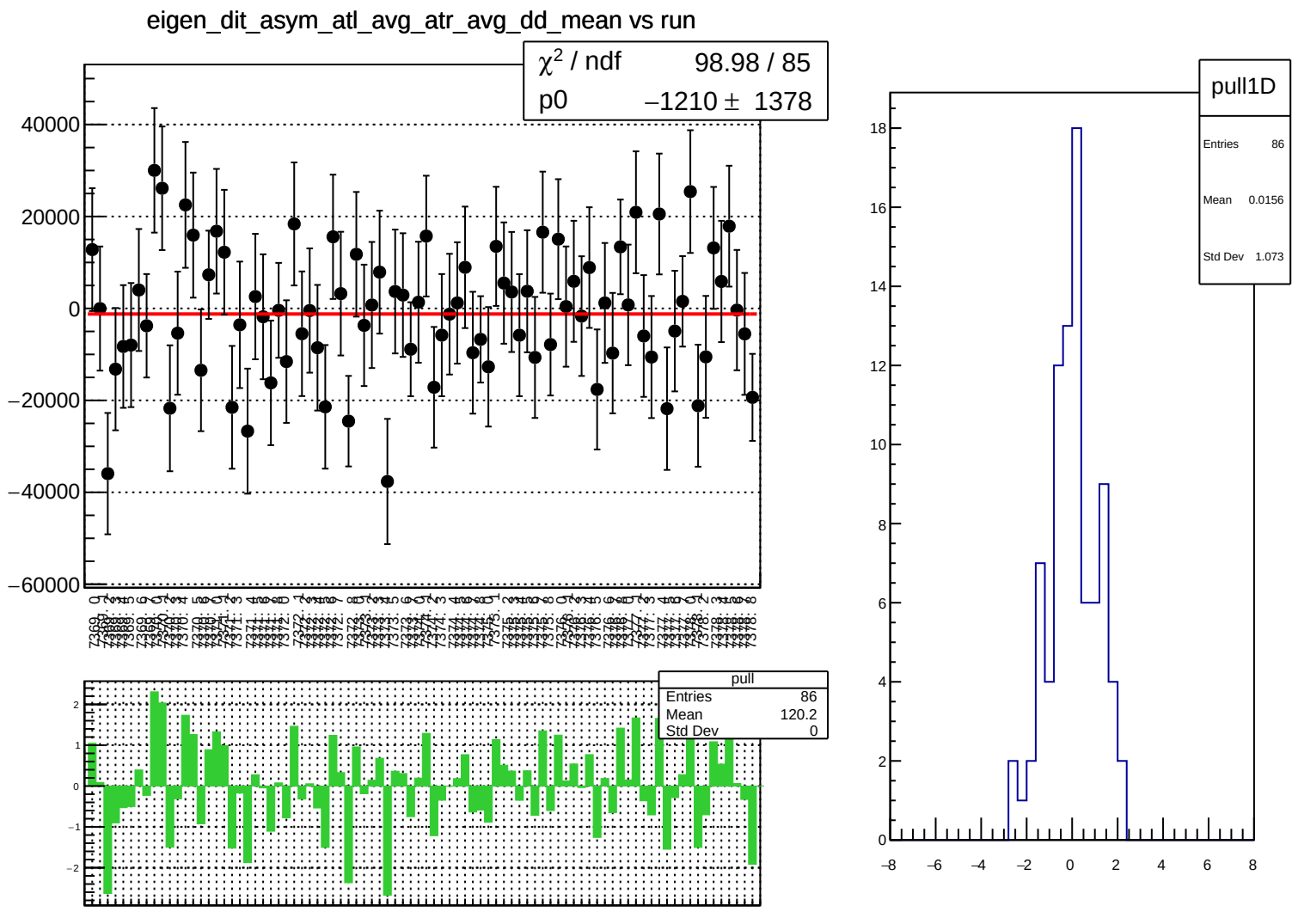

pull1D
Entries 86
Mean 0.0156
Std Dev 1.073

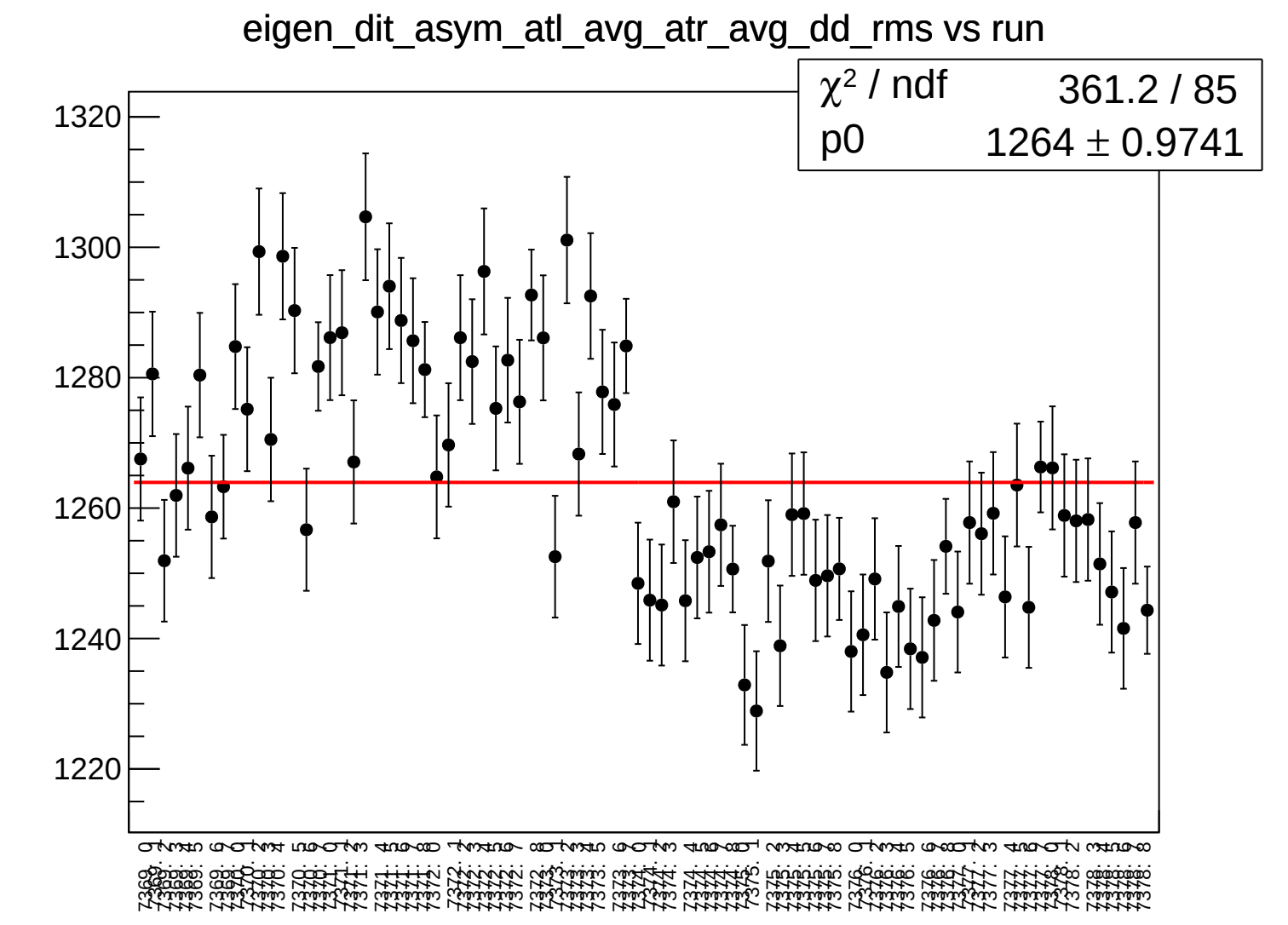

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 361.2 / 85
p0 1264 ± 0.9741
1320
1300
1280
1260
1240
1220

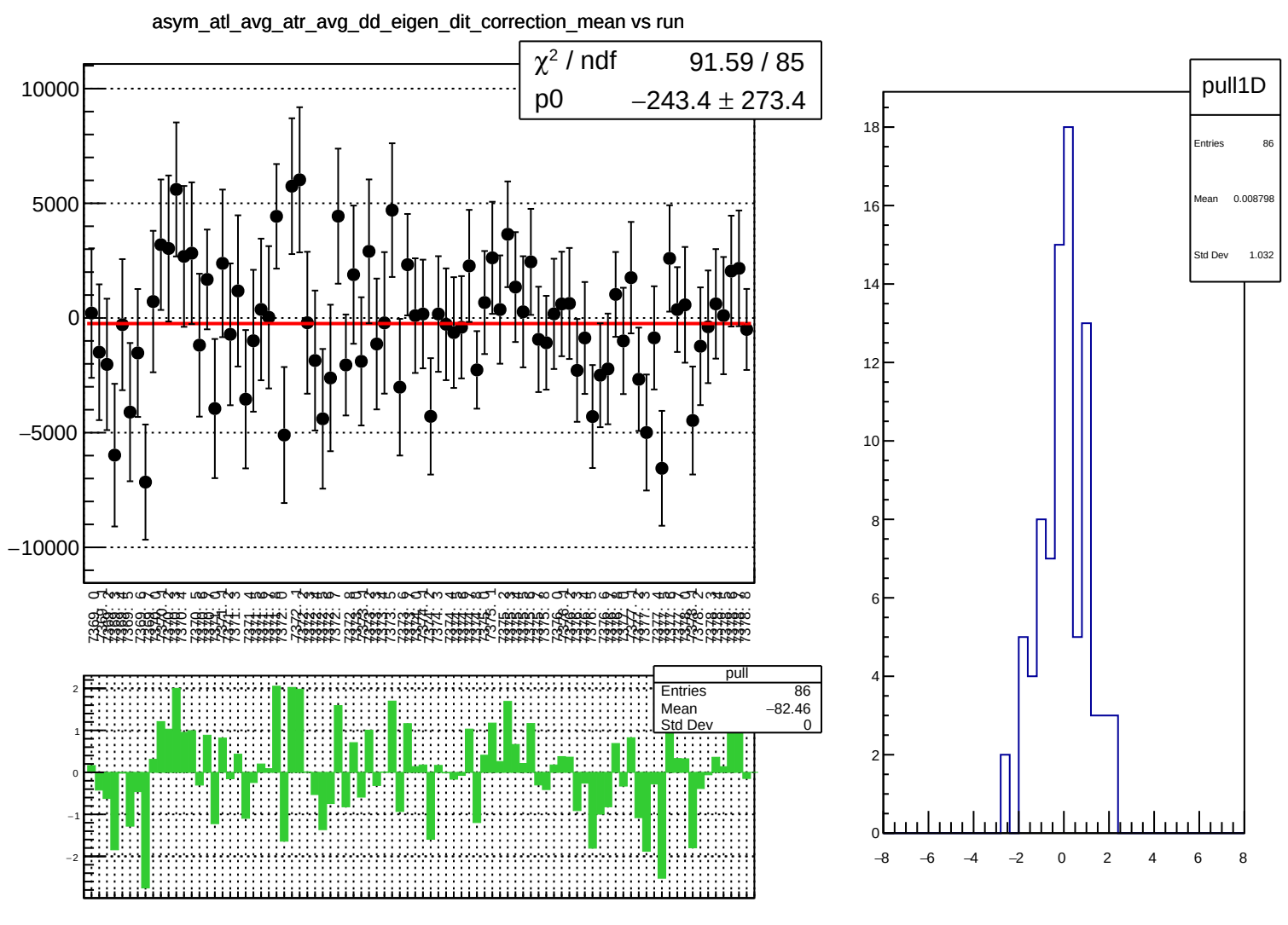

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 91.59 / 85
p0 −243.4 ± 273.4
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −82.46
Std Dev 0
2
1
0
−1
−2

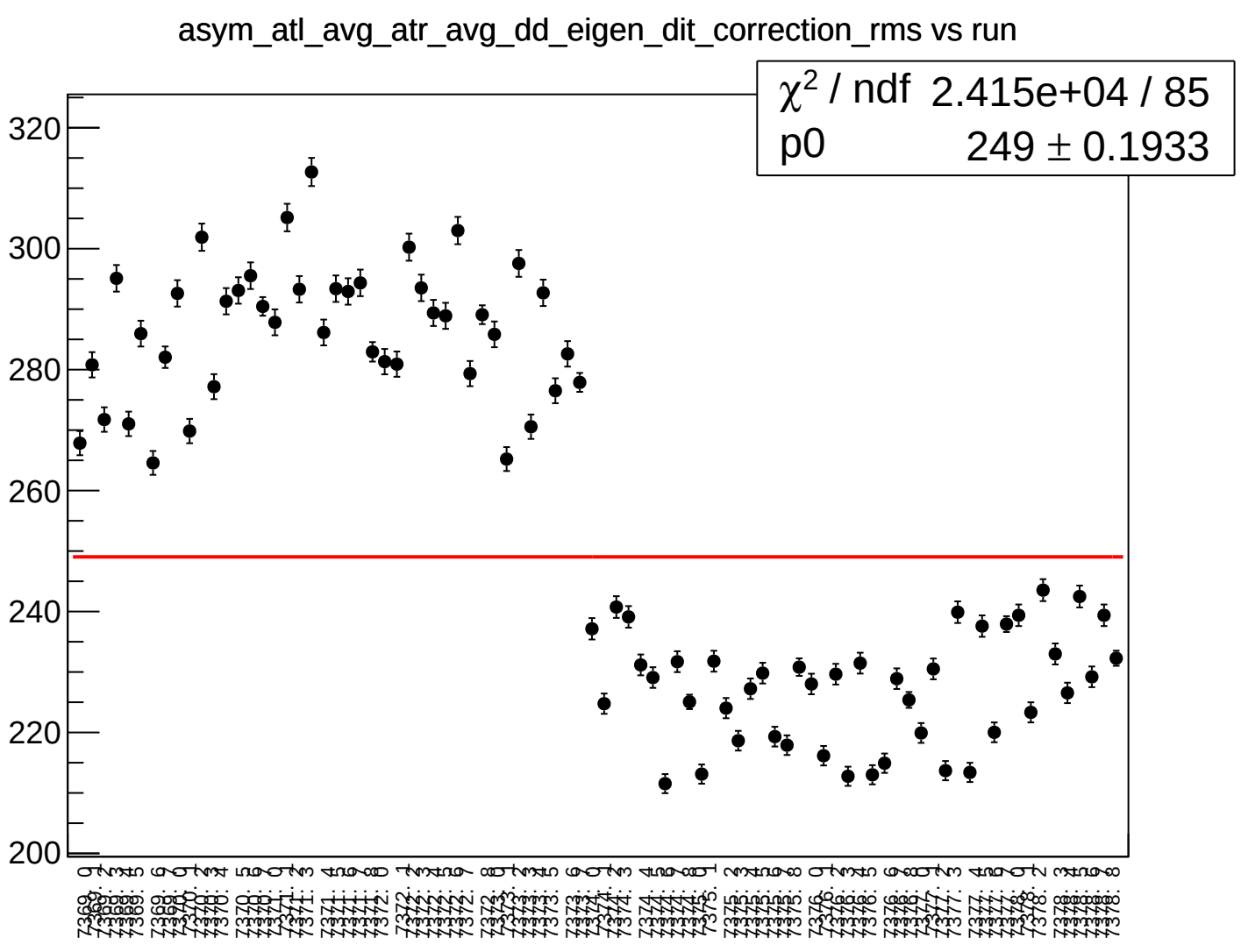

pull1D
Entries 86
Mean 0.008798
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

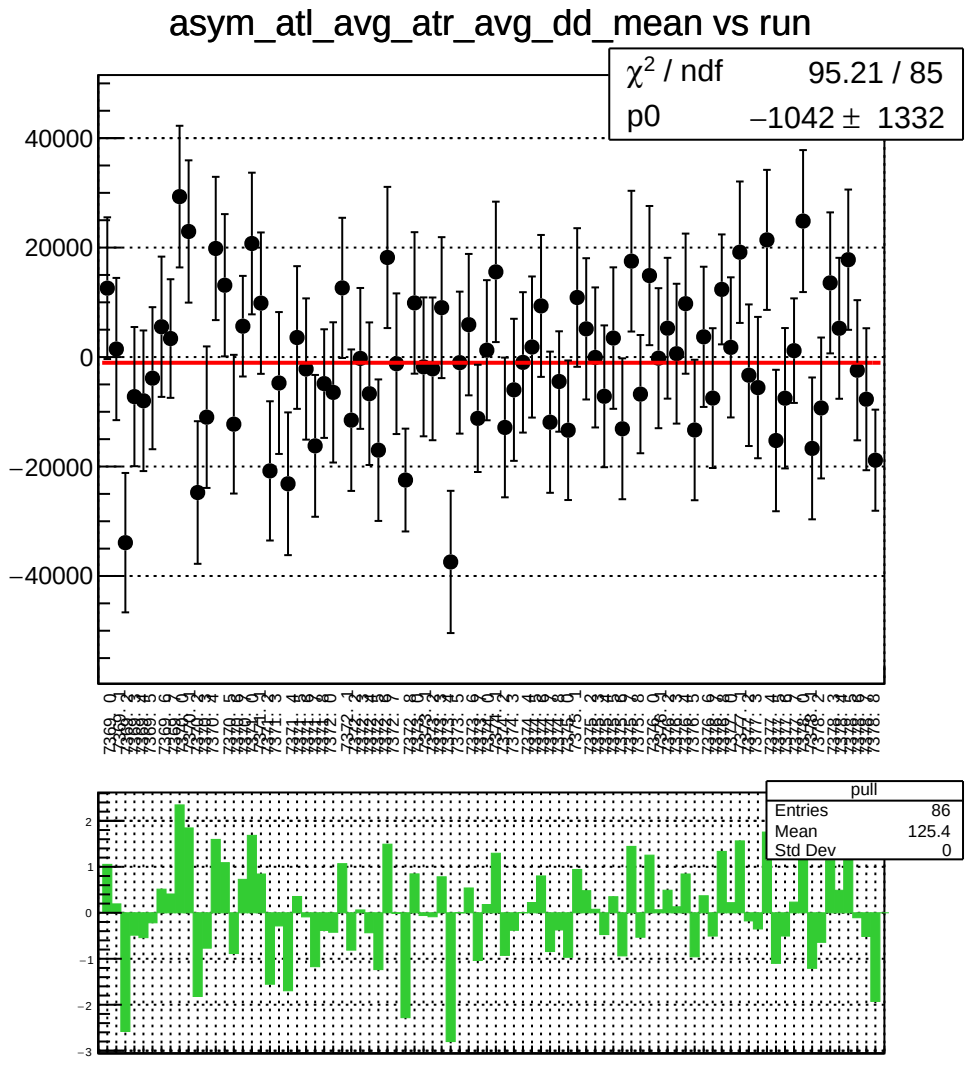

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.415e+04 / 85
p0 249 ± 0.1933
320
300
280
260
240
220
200

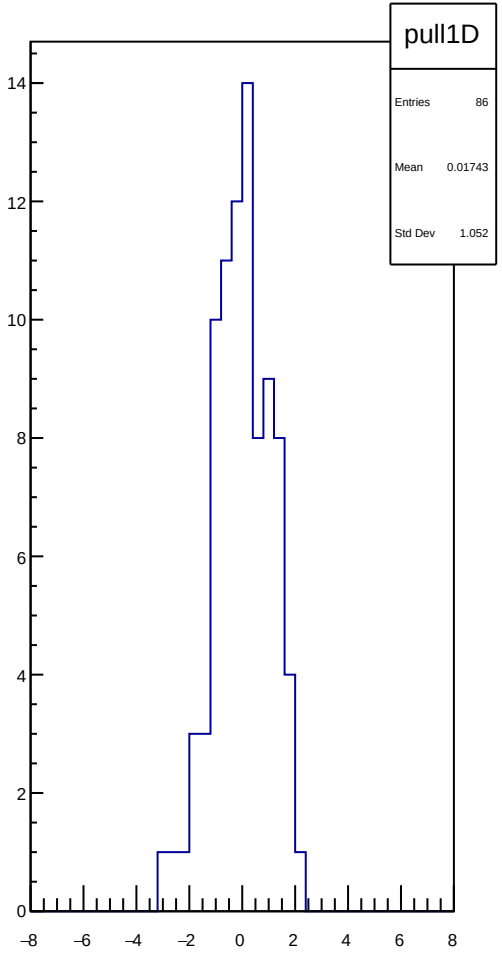

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 98.98 / 85
p0 −1210 ± 1378
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 120.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.0156
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

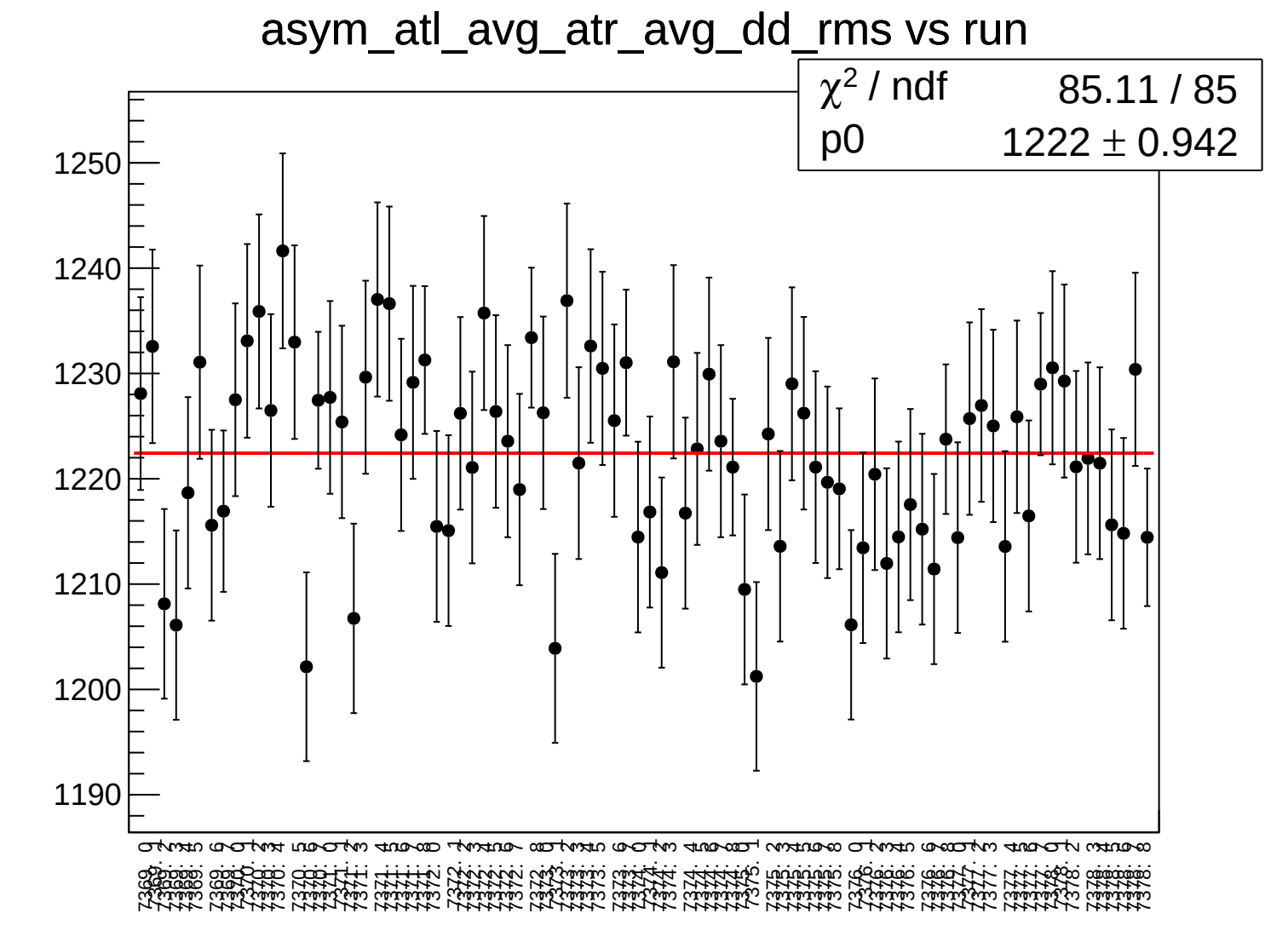

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 361.2 / 85
p0 1264 ± 0.9741
1320
1300
1280
1260
1240
1220

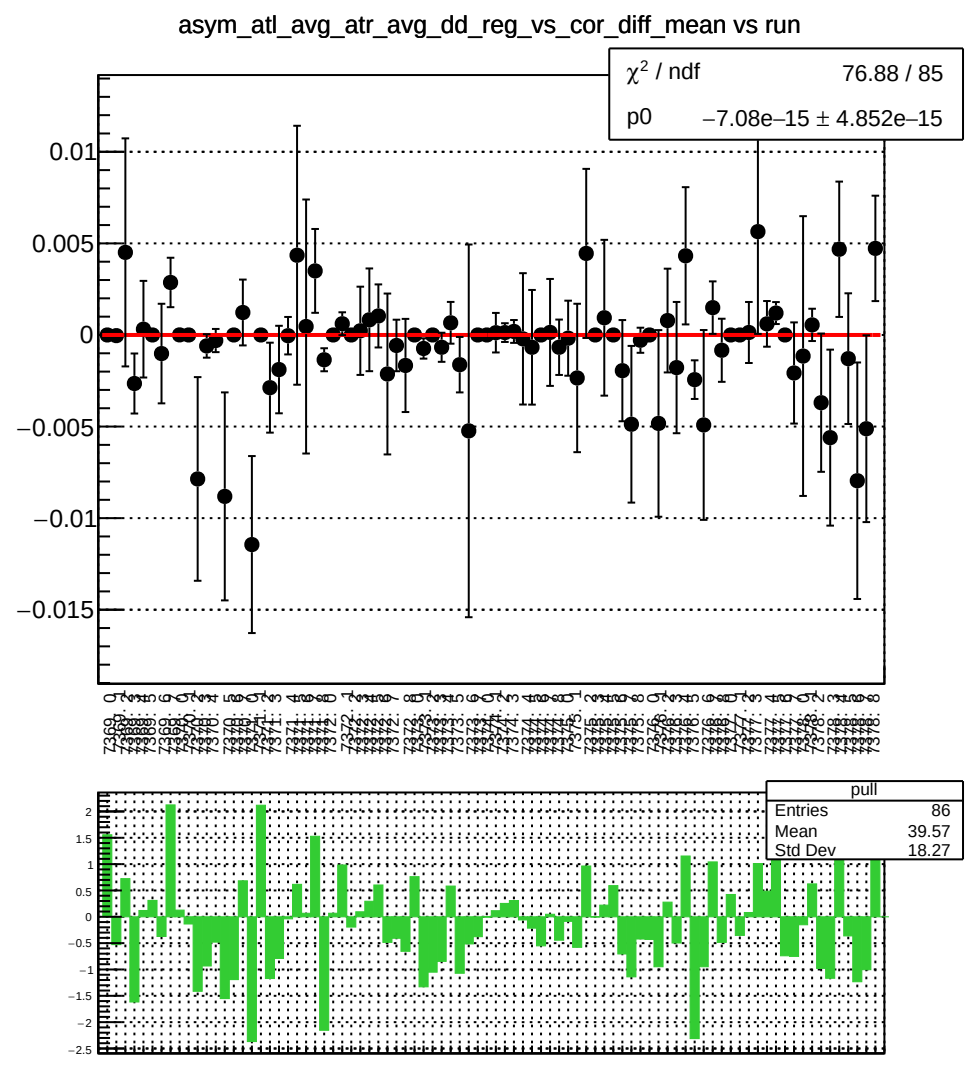

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.59 / 85
p0 −243.4 ± 273.4
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −82.46
Std Dev 0
pull1D
Entries 86
Mean 0.008798
Std Dev 1.032

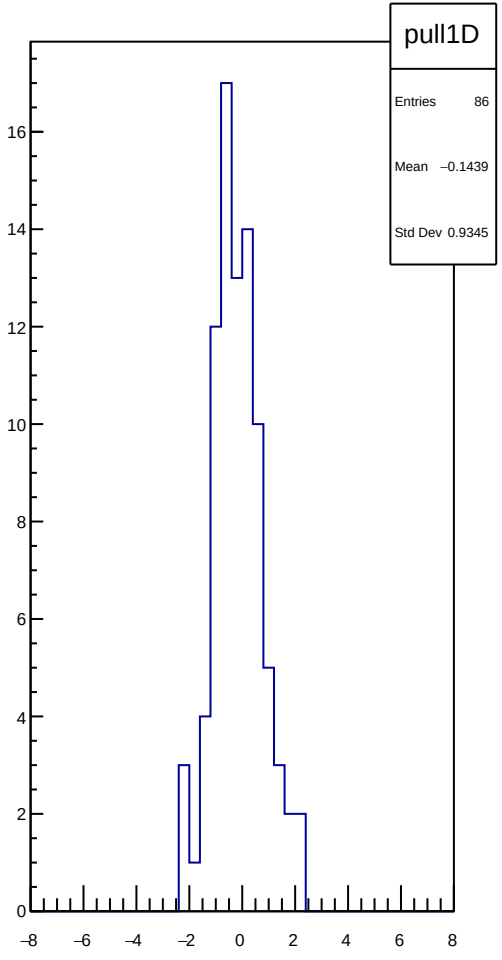

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.415e+04 / 85
p0 249 ± 0.1933
320
300
280
260
240
220
200

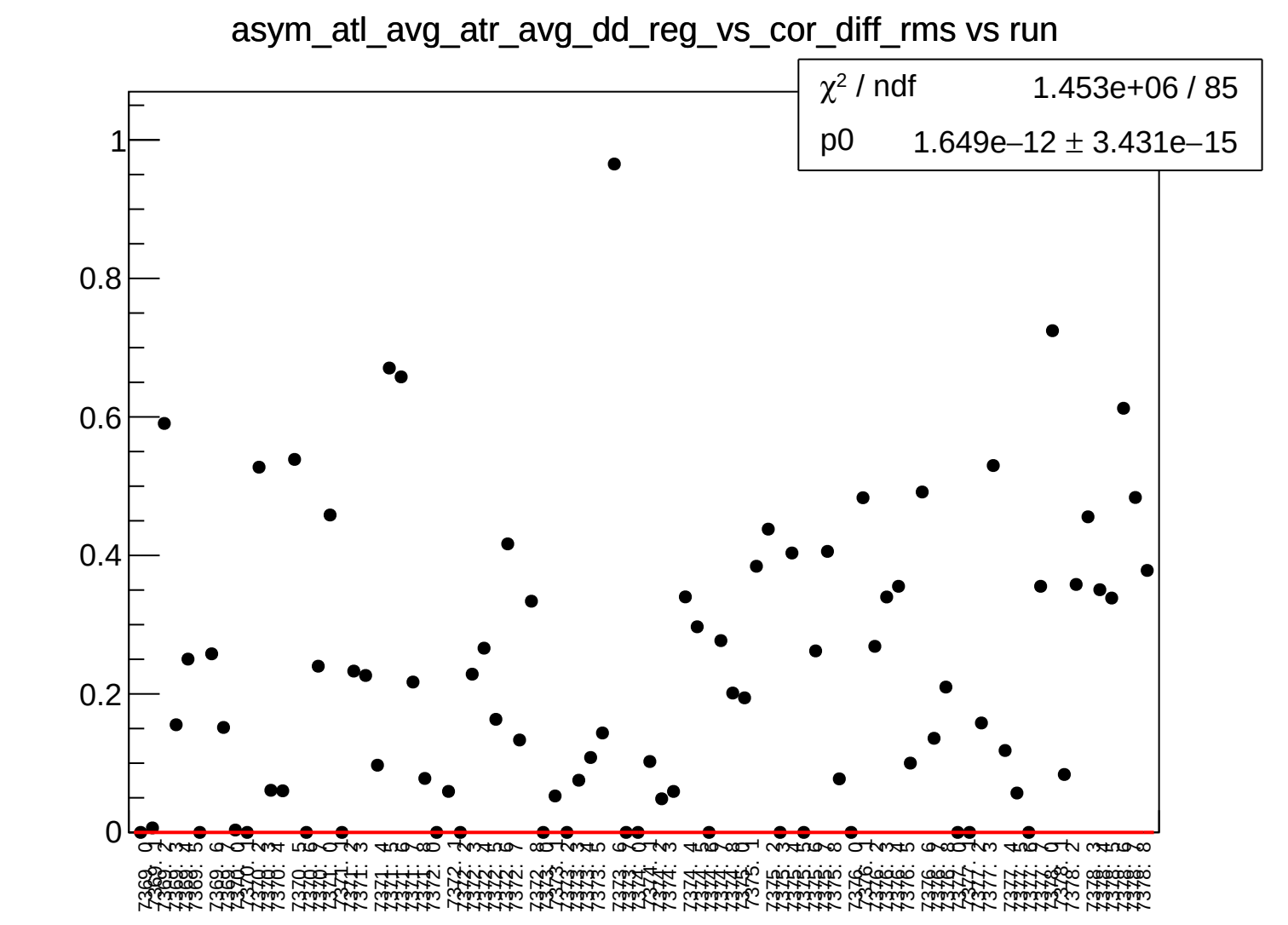

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 95.21 / 85
p0 −1042 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 125.4
Std Dev 0
2
1
0
−1
−2
−3

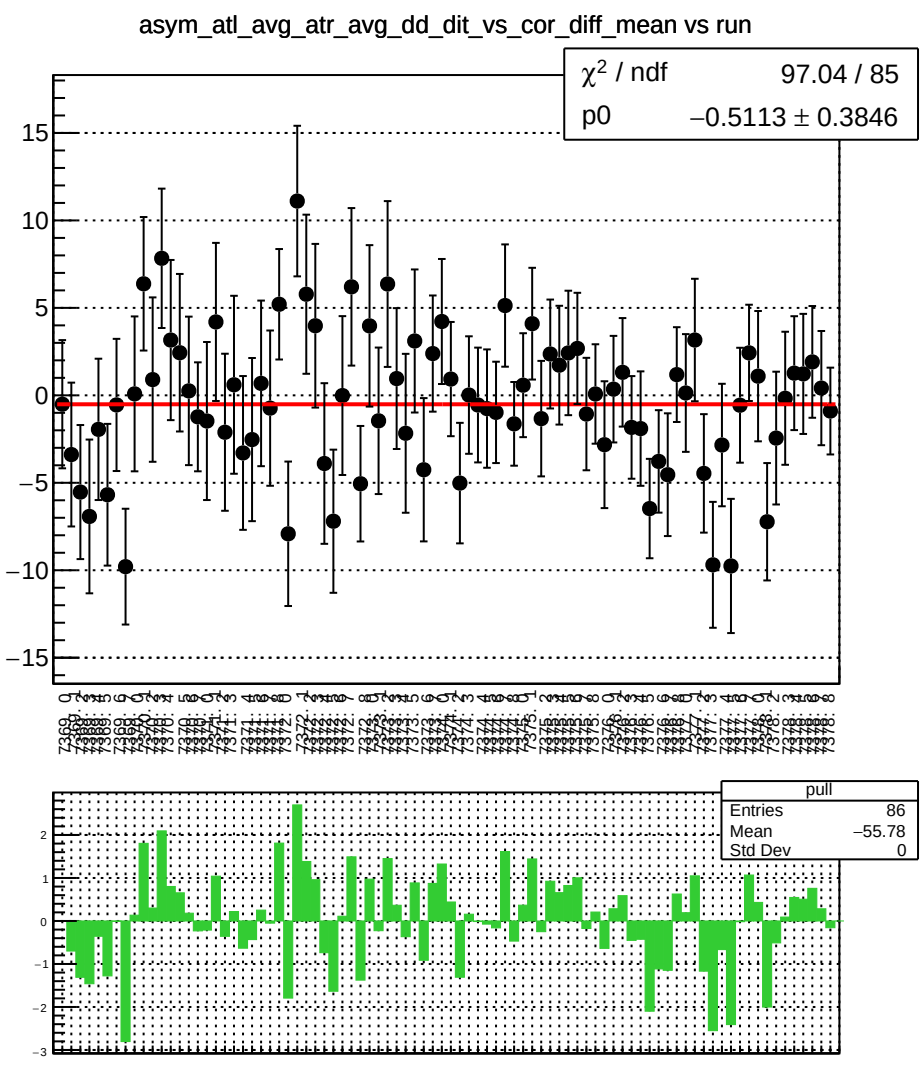

pull1D
Entries 86
Mean 0.01743
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

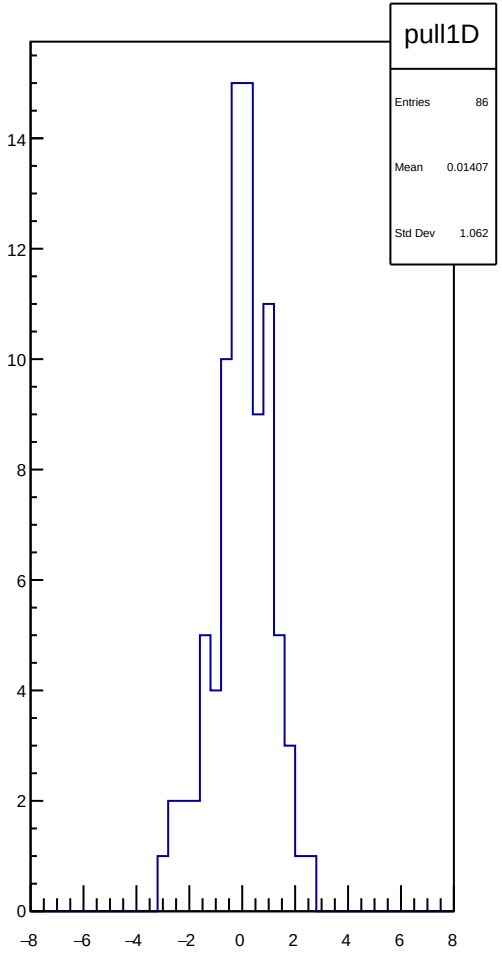

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 85.11 / 85
p0 1222 ± 0.942
1250
1240
1230
1220
1210
1200
1190

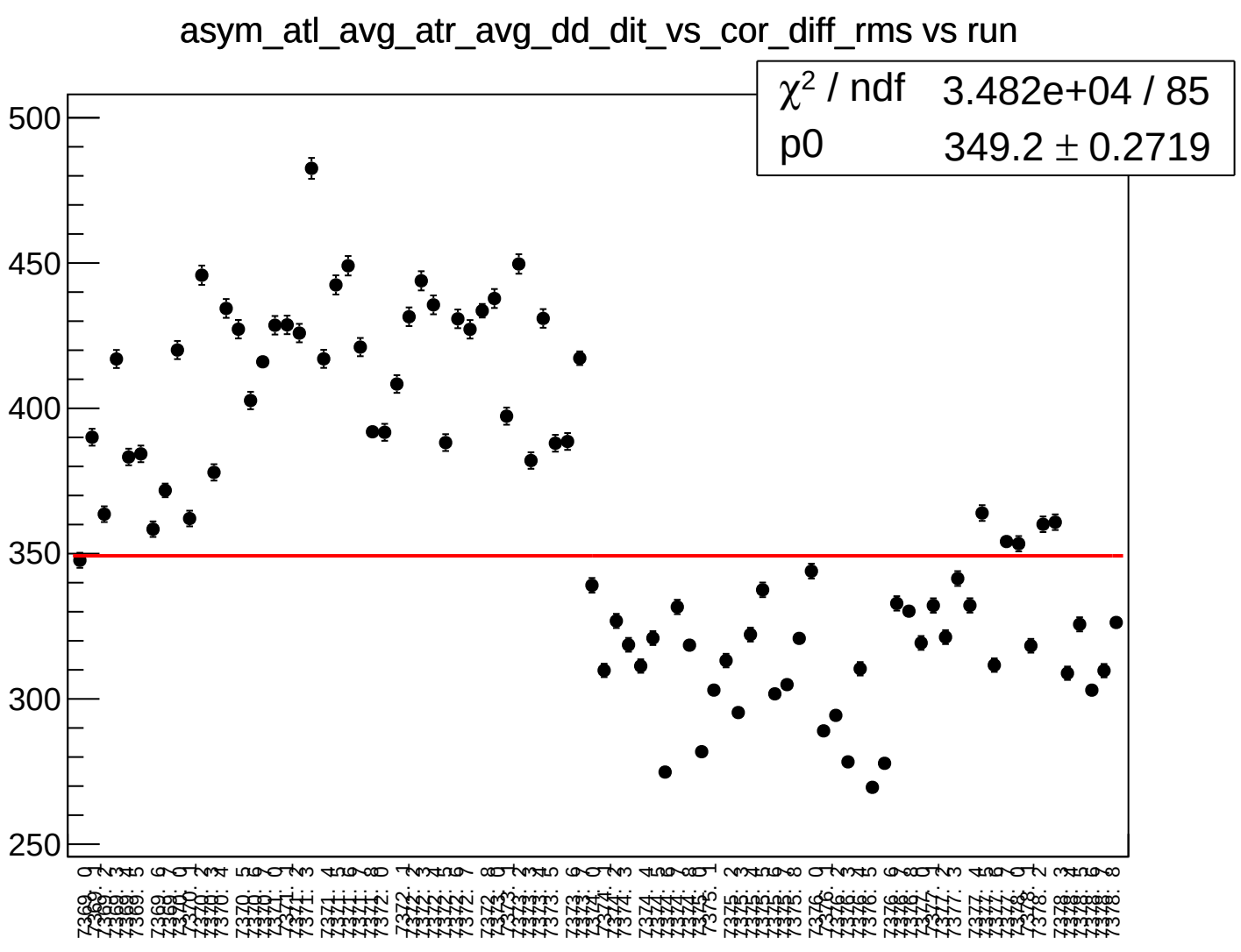

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.88 / 85
p0 −7.08e−15 ± 4.852e−15
pull
Entries 86
Mean 39.57
Std Dev 18.27

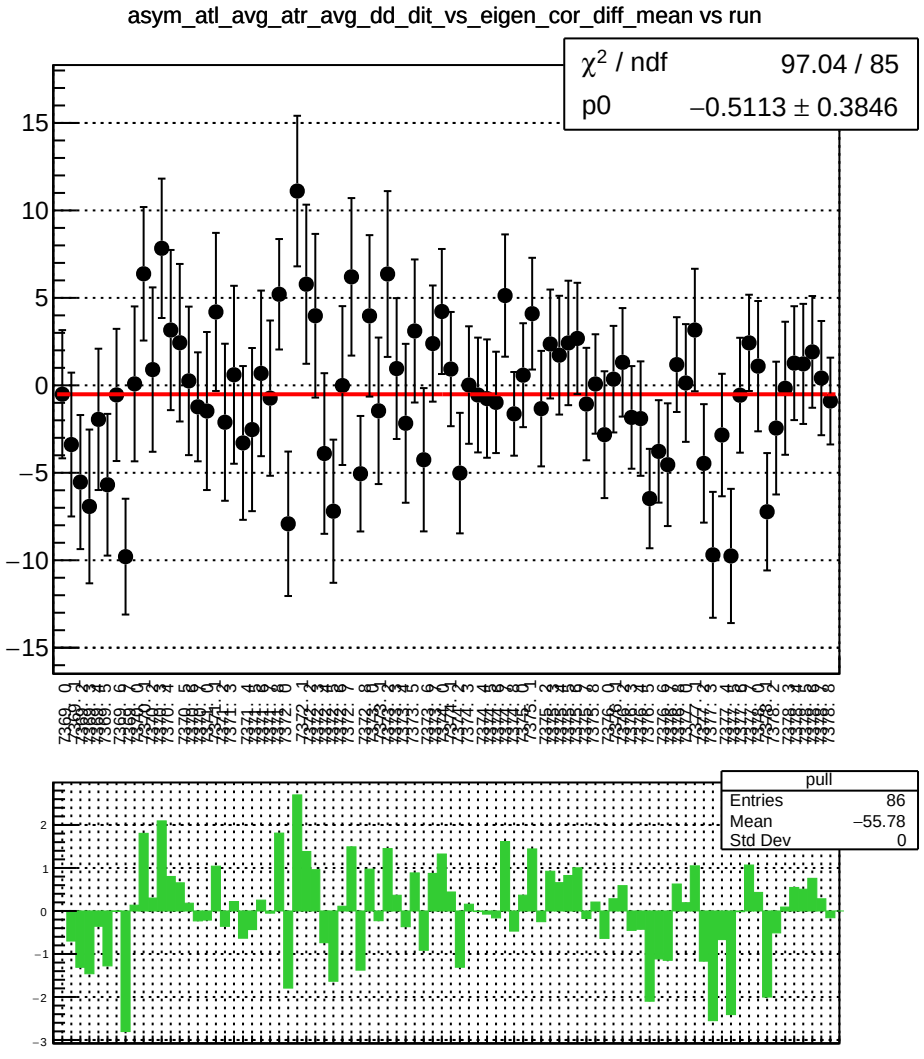

pull1D
Entries 86
Mean −0.1439
Std Dev 0.9345

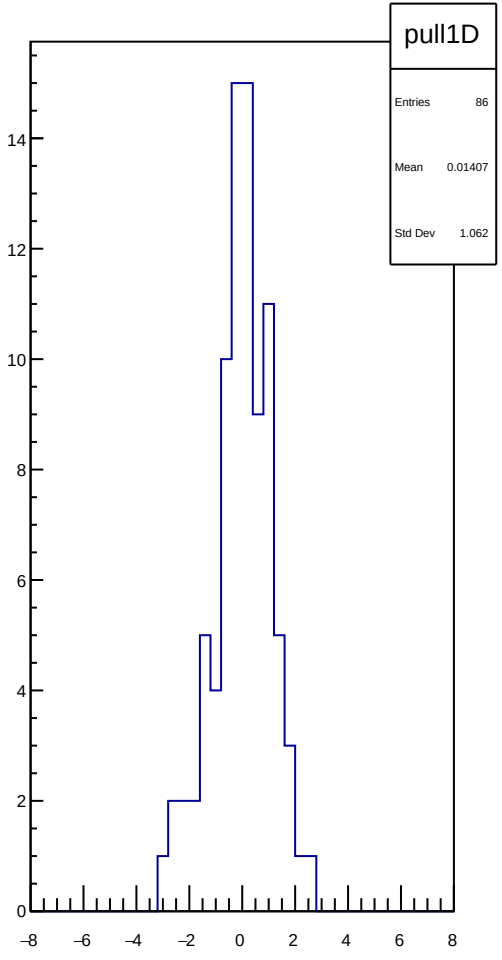

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.453e+06 / 85
p0 1.649e−12 ± 3.431e−15
1
0.8
0.6
0.4
0.2
0

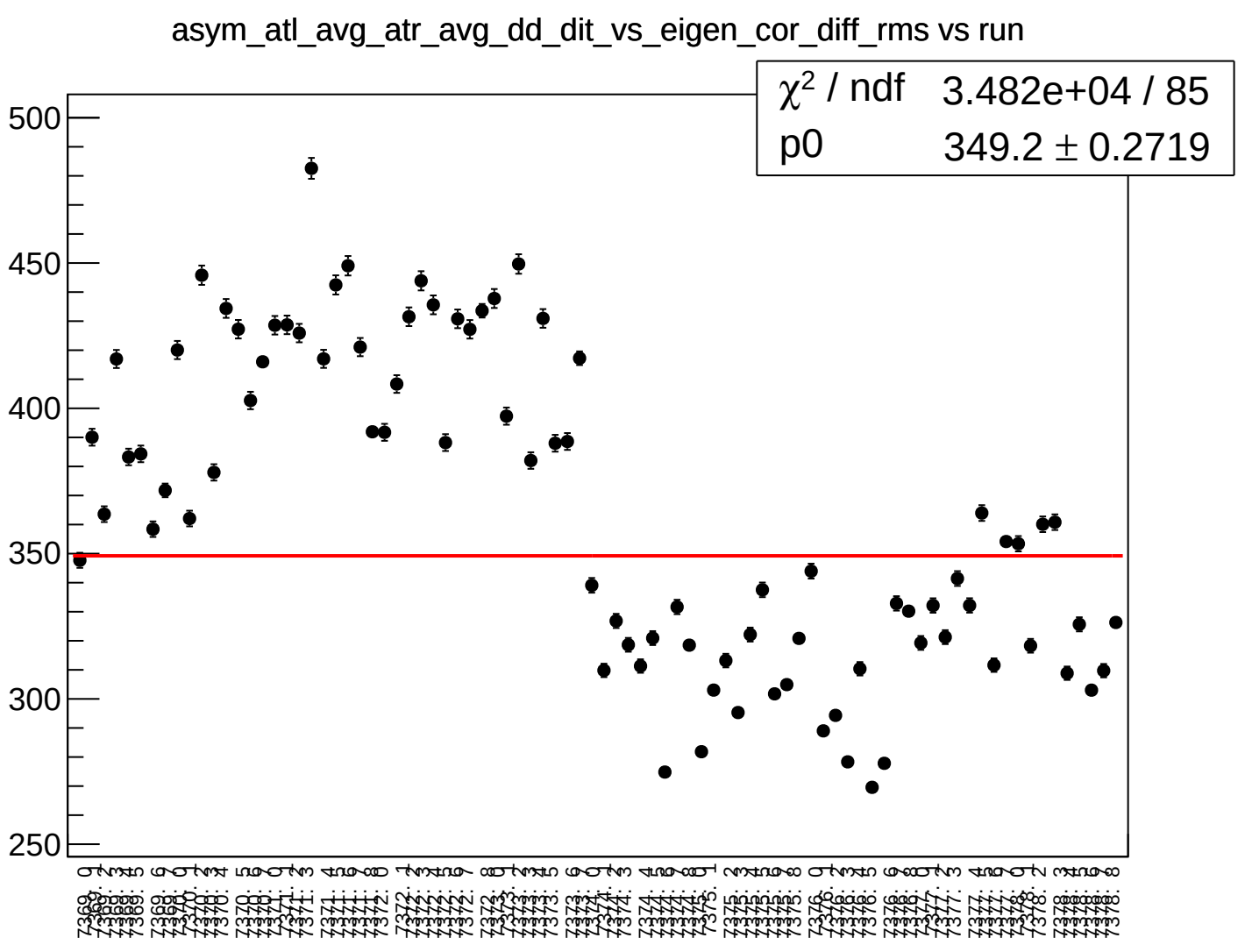

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.04 / 85
p0 −0.5113 ± 0.3846
pull
Entries 86
Mean −55.78
Std Dev 0

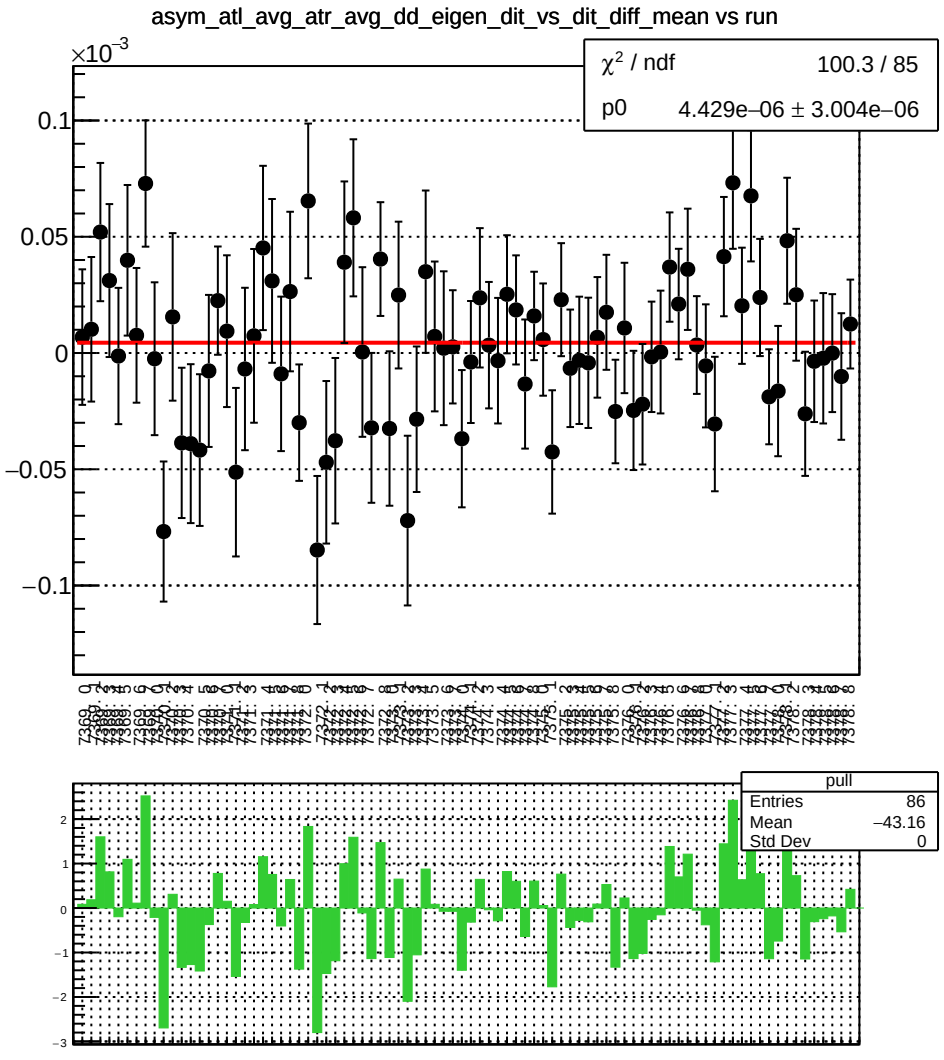

pull1D
Entries 86
Mean 0.01407
Std Dev 1.062

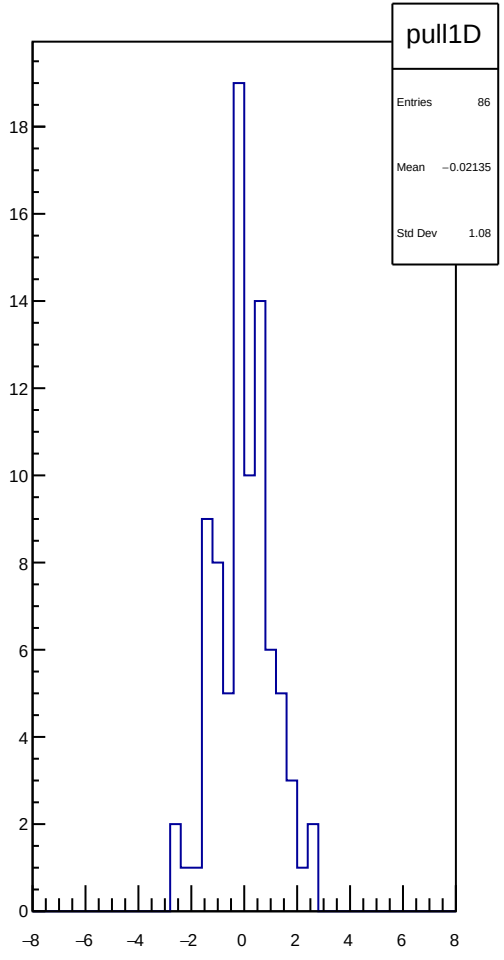

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.482e+04 / 85
p0 349.2 ± 0.2719
500
450
400
350
300
250

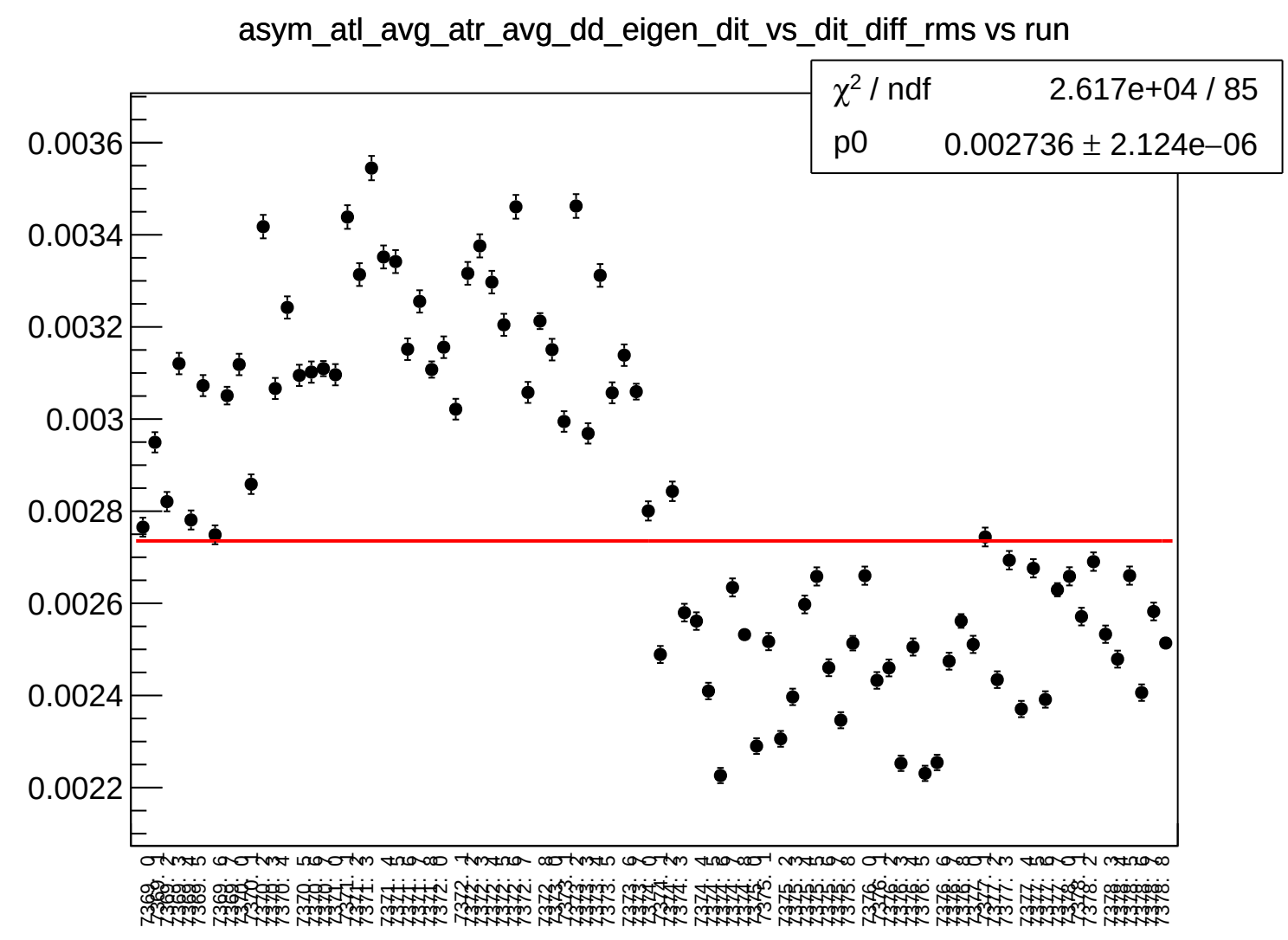

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.04 / 85
p0 −0.5113 ± 0.3846
pull
Entries 86
Mean −55.78
Std Dev 0

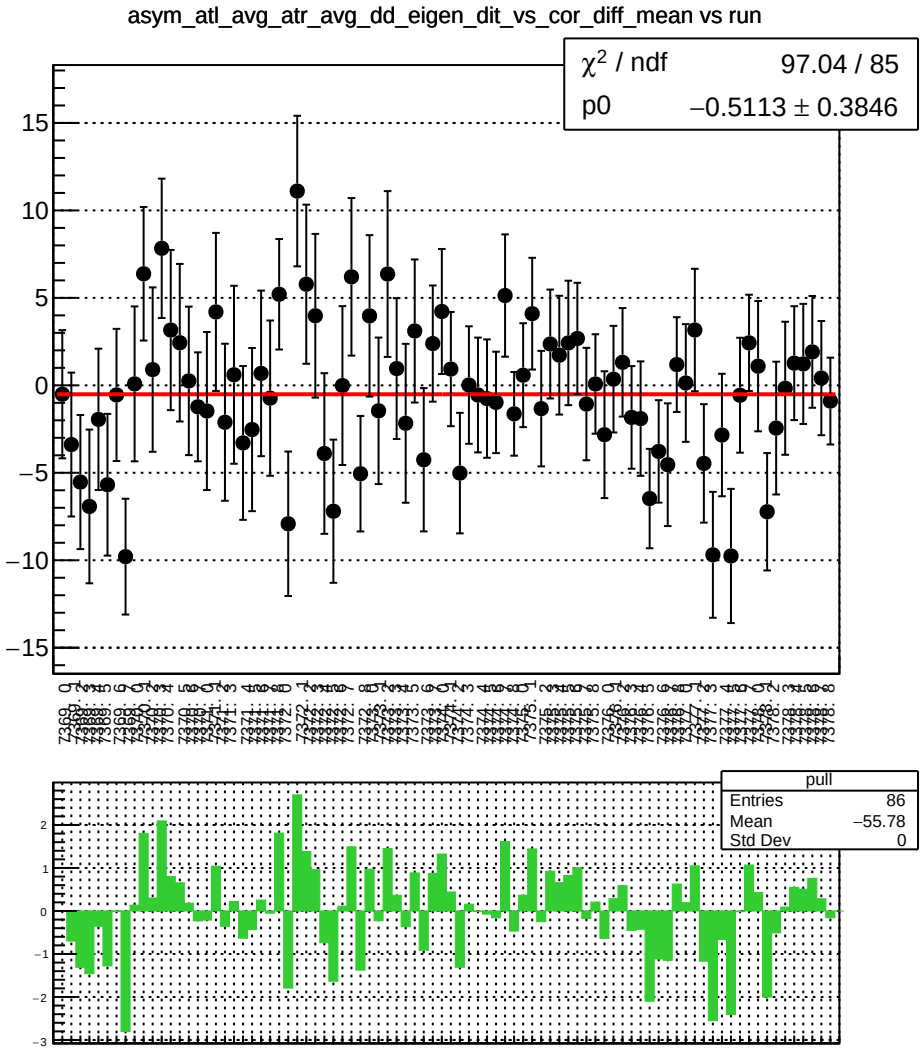

pull1D
Entries 86
Mean 0.01407
Std Dev 1.062

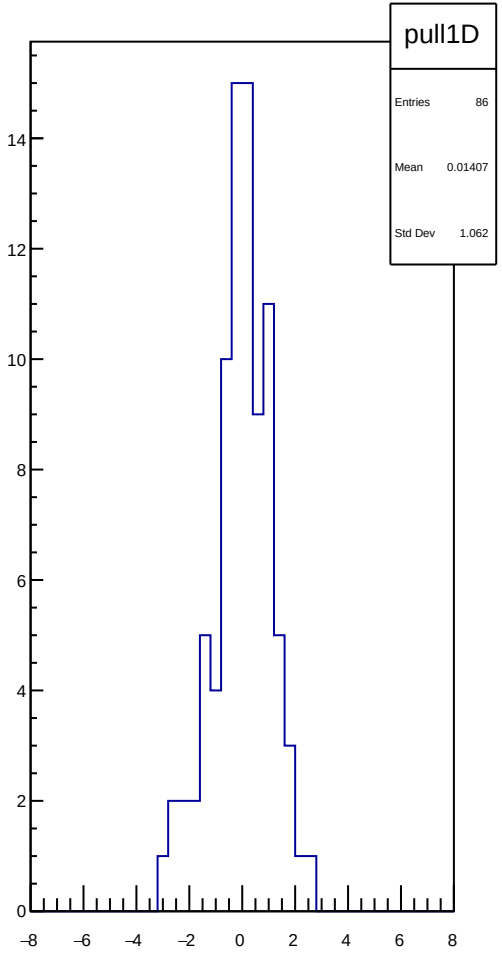

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.482e+04 / 85
p0 349.2 ± 0.2719
500
450
400
350
300
250

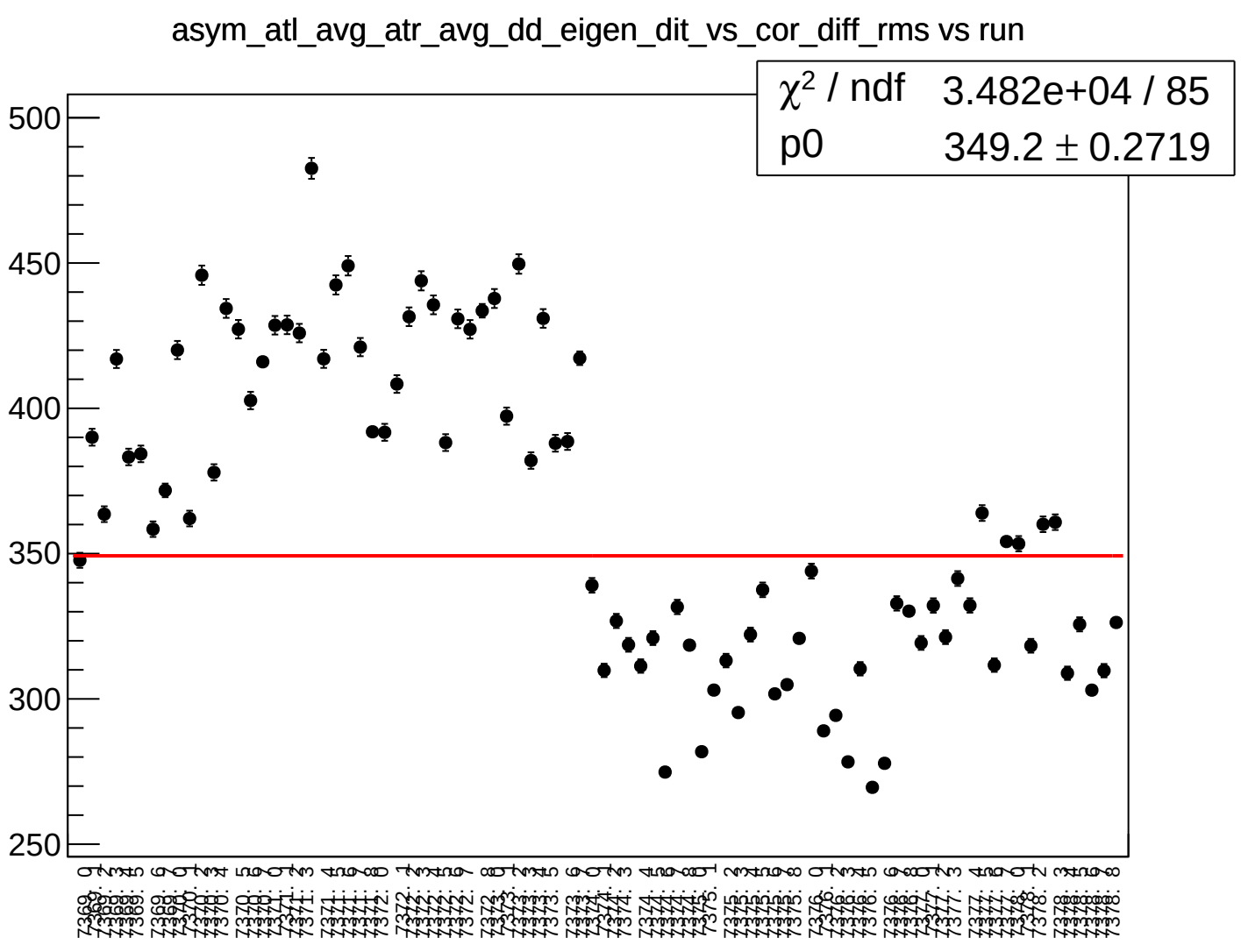

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.3 / 85
p0 4.429e−06 ± 3.004e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −43.16
Std Dev 0
2
1
0
−1
−2
−3

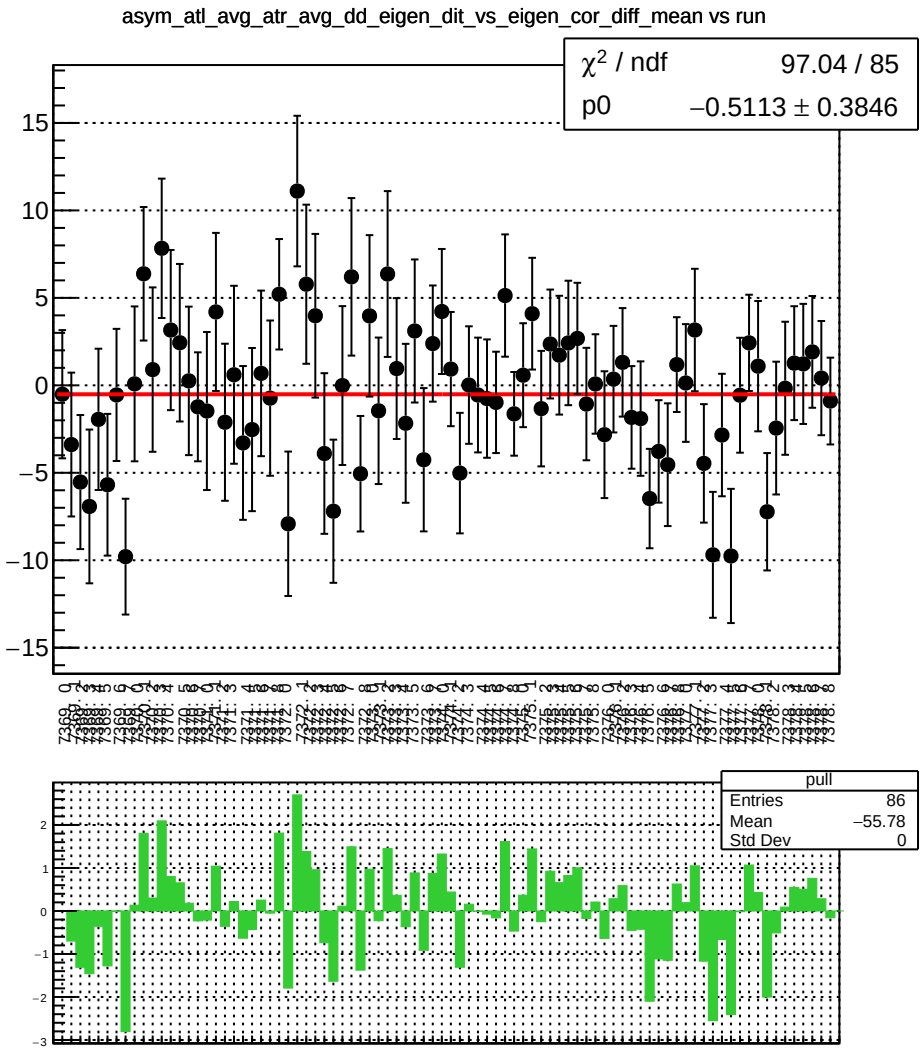

pull1D
Entries 86
Mean −0.02135
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

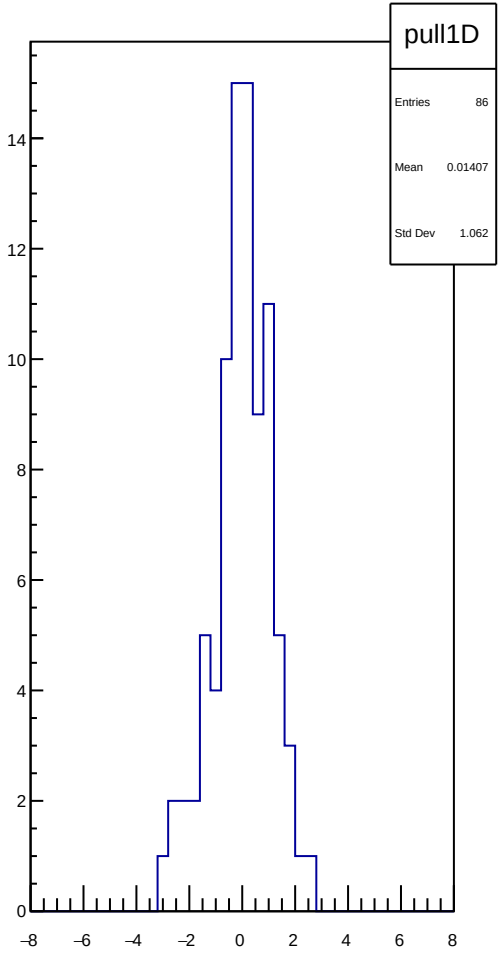

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.617e+04 / 85
p0 0.002736 ± 2.124e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

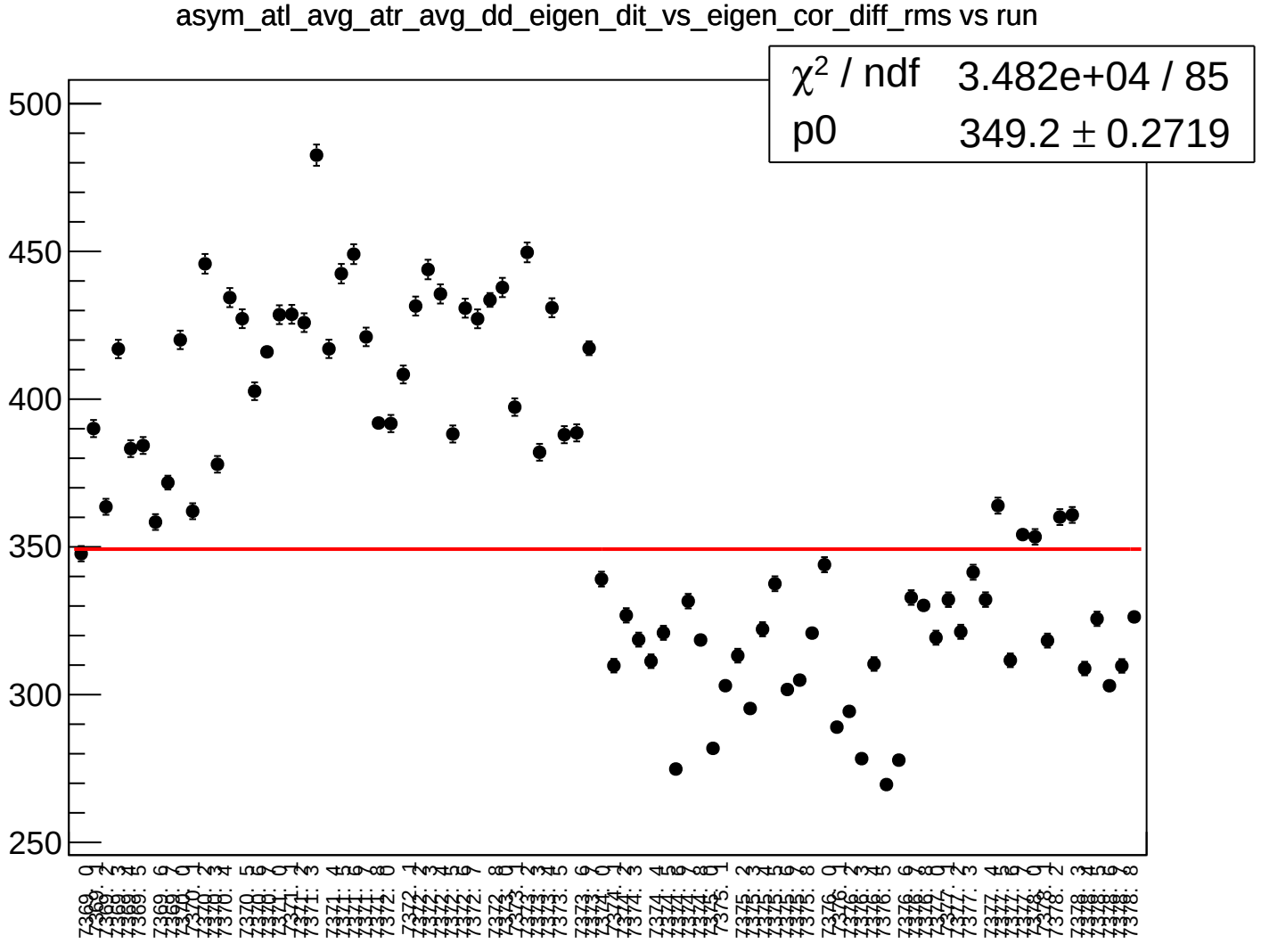

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.04 / 85
p0 −0.5113 ± 0.3846
pull
Entries 86
Mean −55.78
Std Dev 0

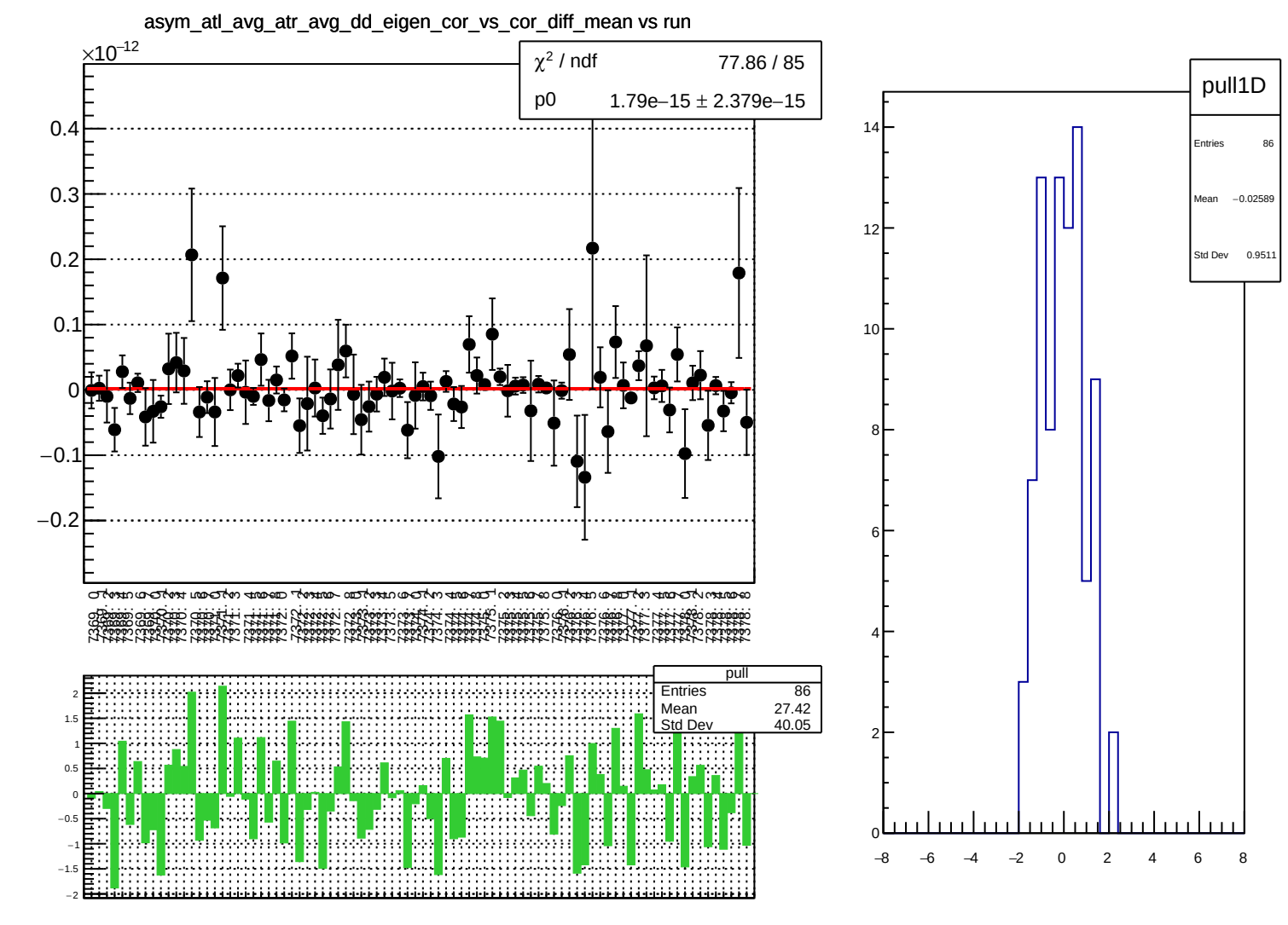

pull1D
Entries 86
Mean 0.01407
Std Dev 1.062

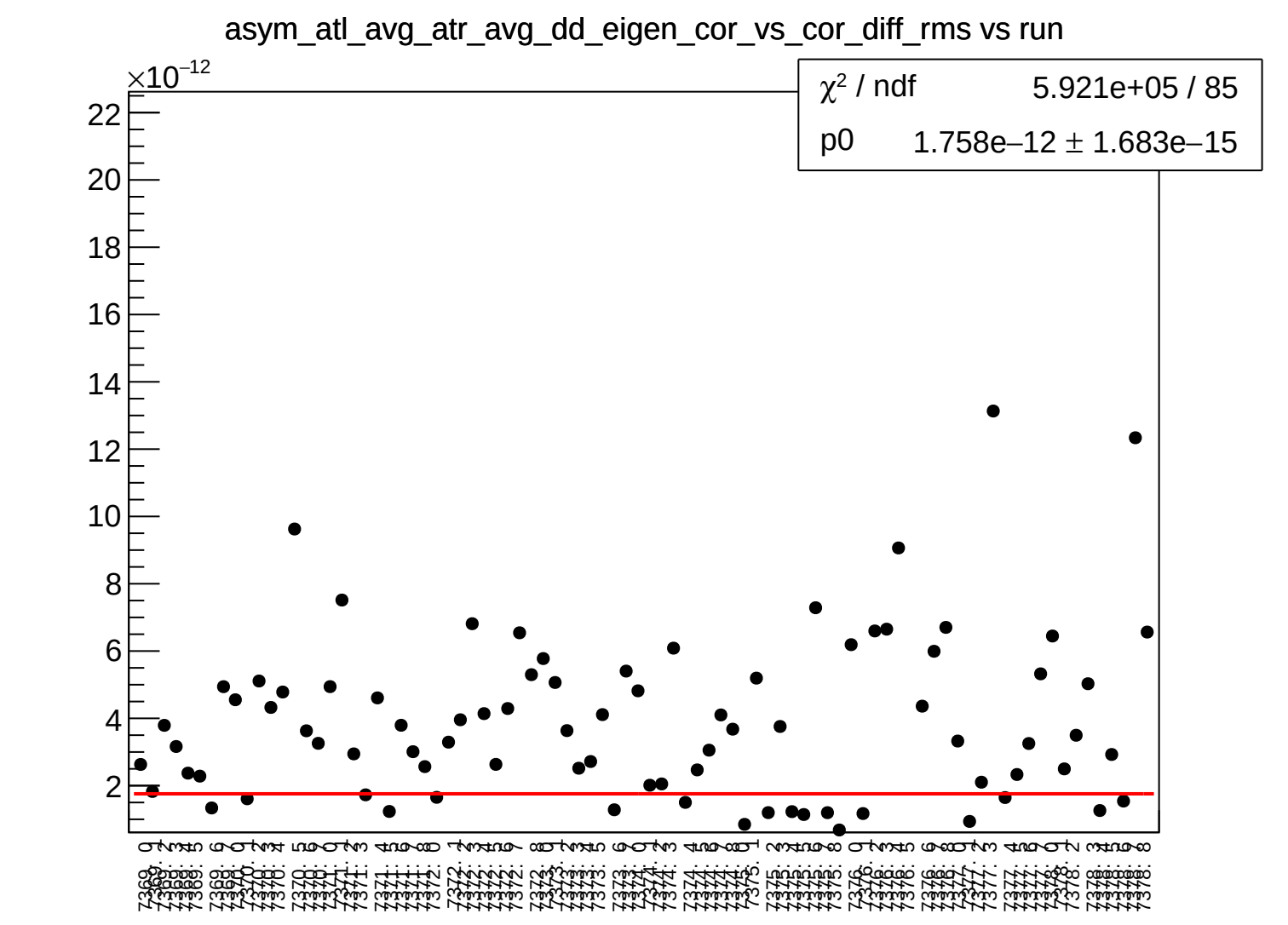

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.482e+04 / 85
p0 349.2 ± 0.2719
500
450
400
350
300
250

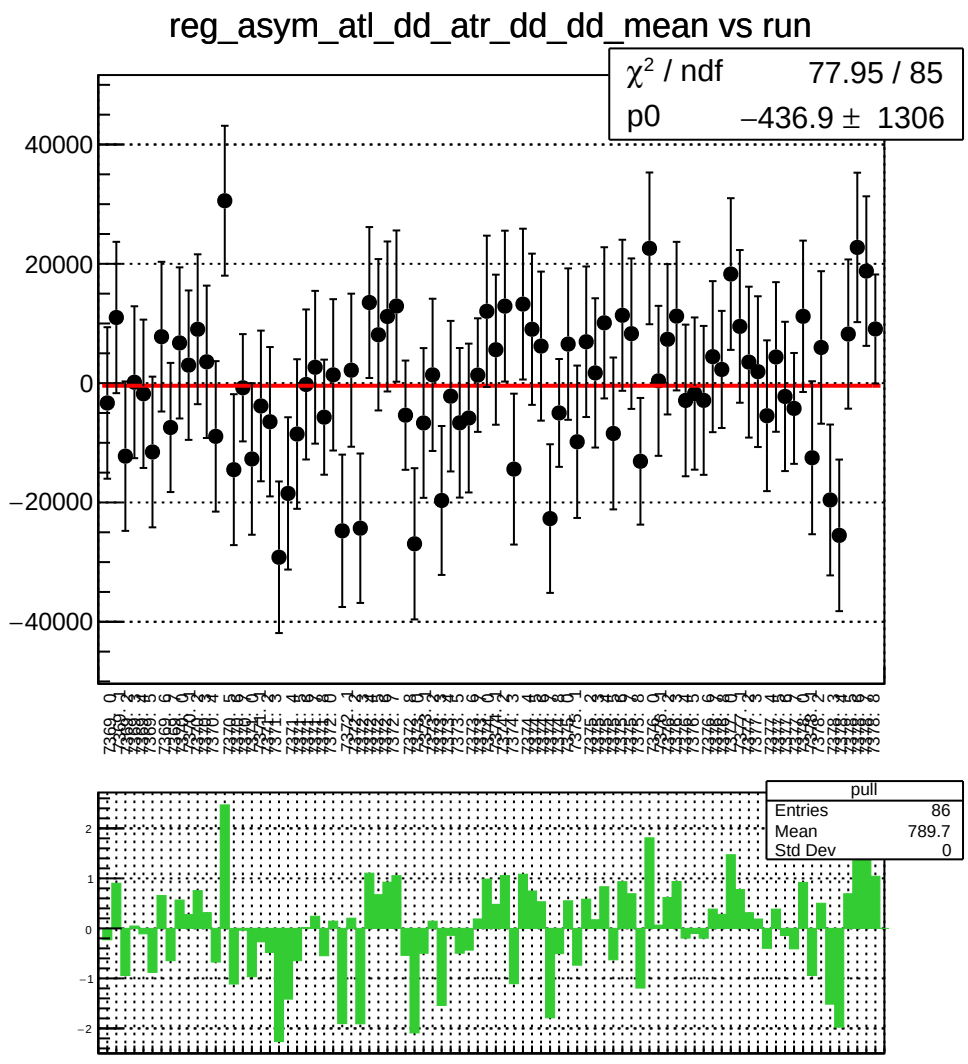

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.04 / 85
p0 −0.5113 ± 0.3846
pull
Entries 86
Mean −55.78
Std Dev 0

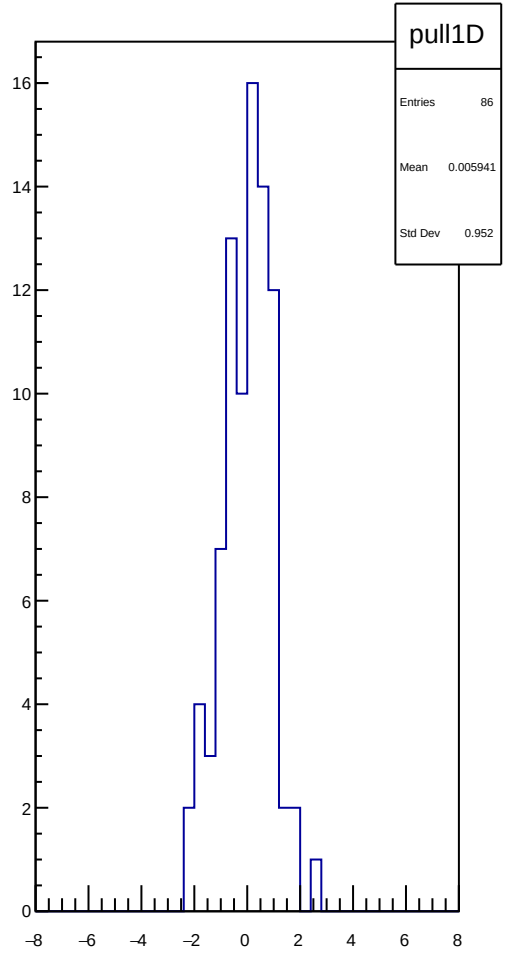

pull1D
Entries 86
Mean 0.01407
Std Dev 1.062

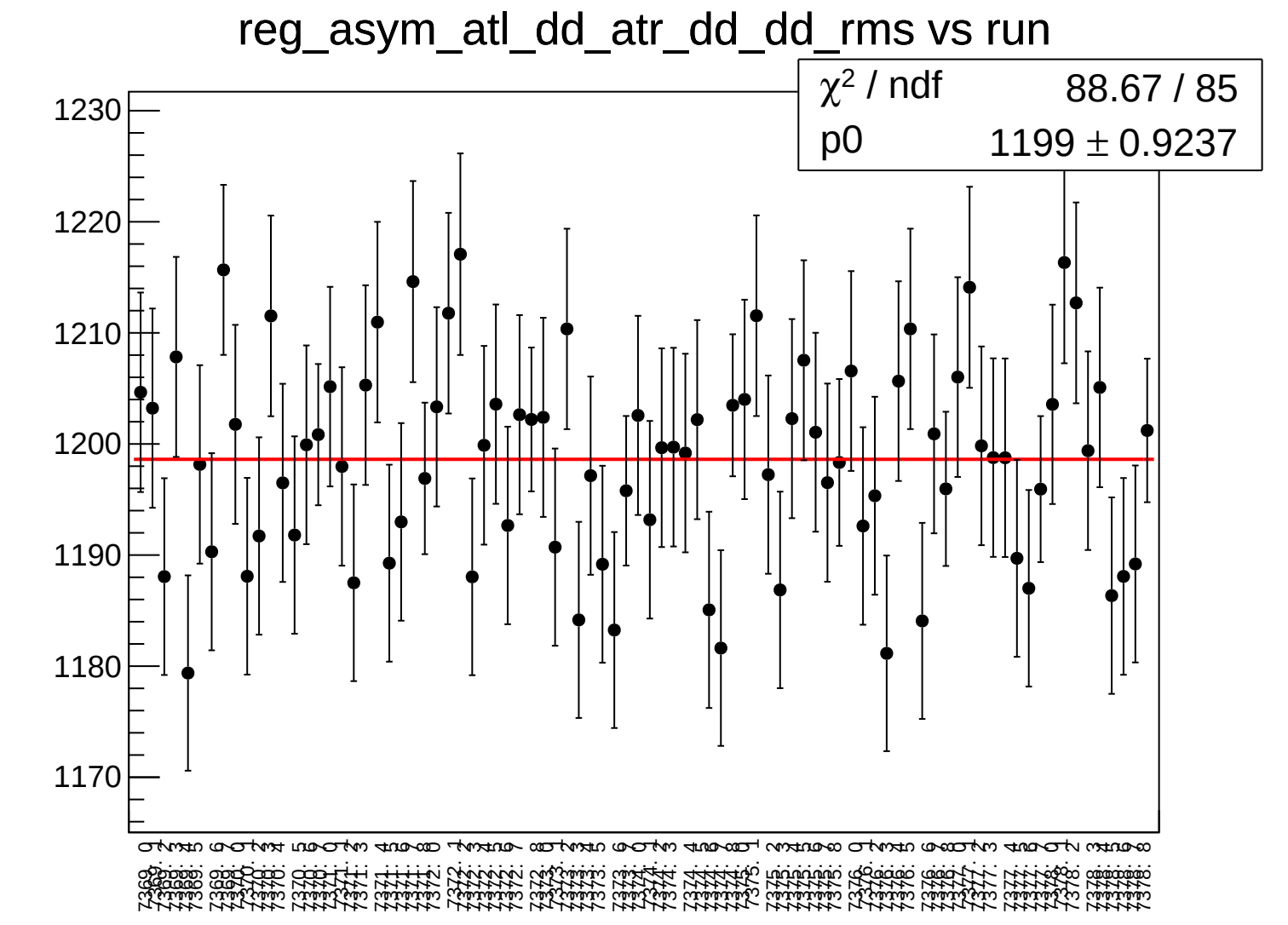

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.482e+04 / 85
p0 349.2 ± 0.2719
500
450
400
350
300
250

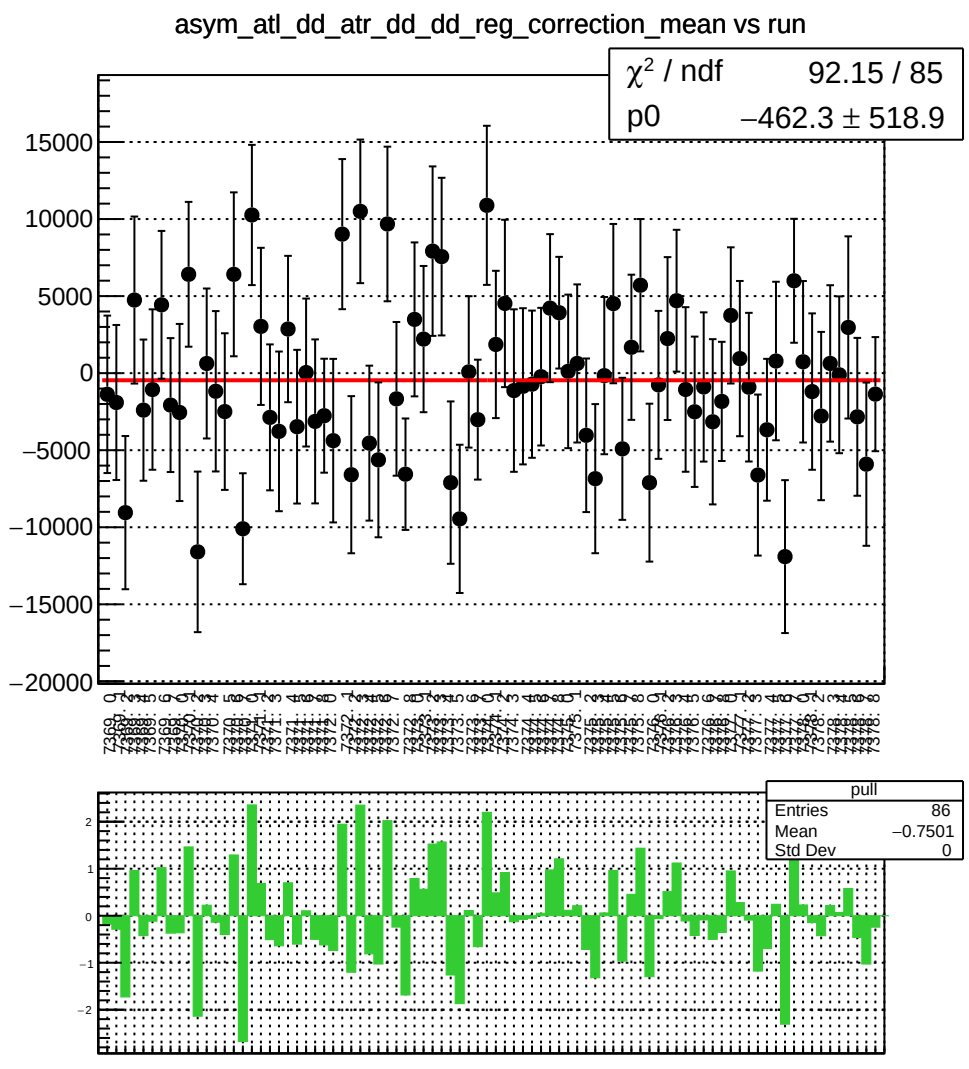

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.86 / 85
p0 1.79e−15 ± 2.379e−15
pull
Entries 86
Mean 27.42
Std Dev 40.05
pull1D
Entries 86
Mean −0.02589
Std Dev 0.9511

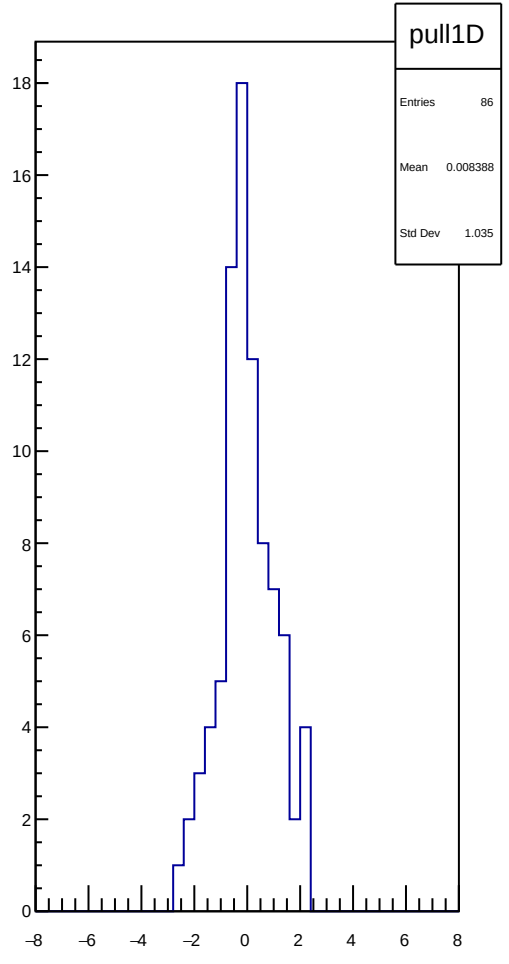

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.921e+05 / 85
p0 1.758e−12 ± 1.683e−15
22
20
18
16
14
12
10
8
6
4
2

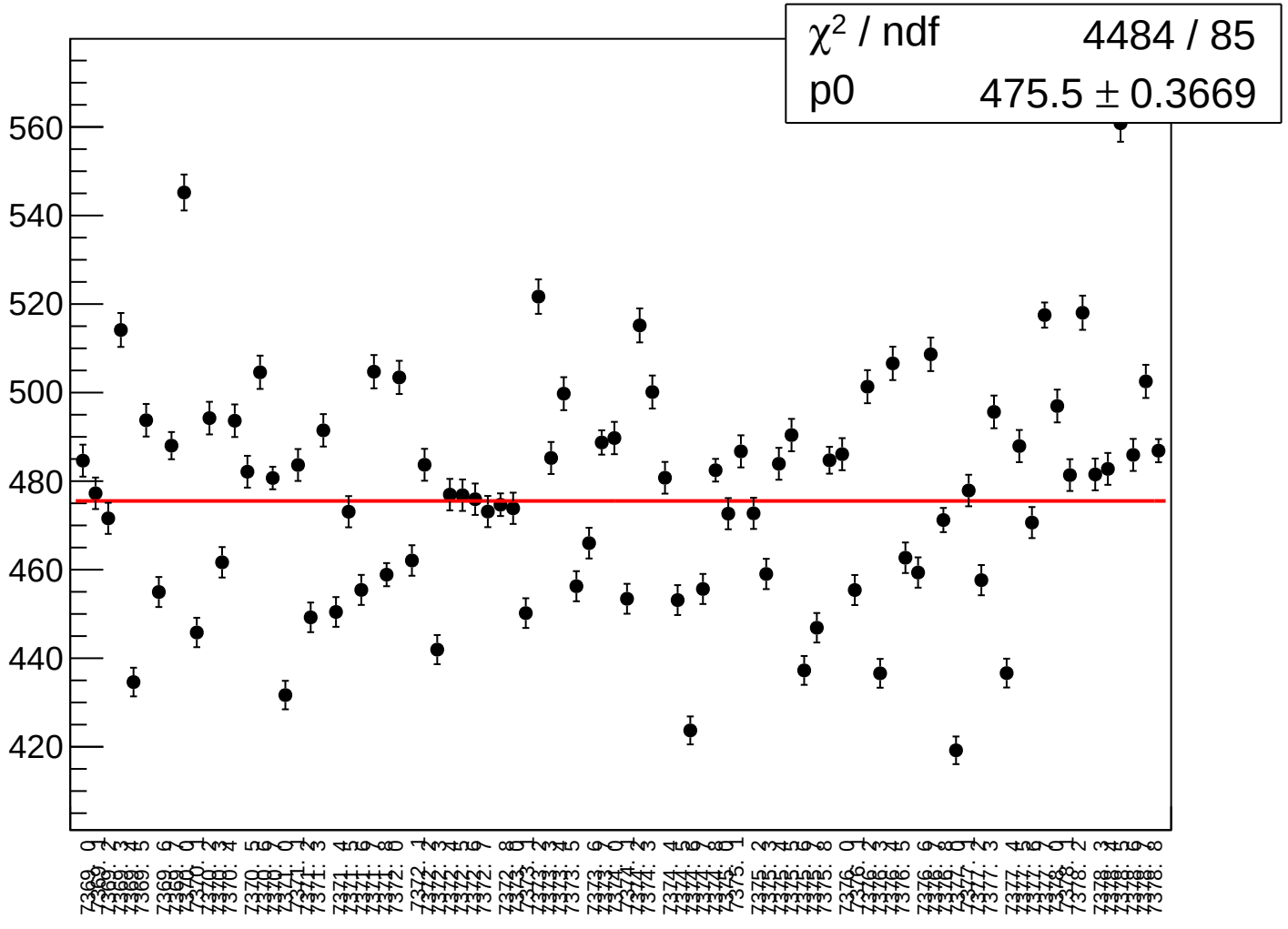

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 77.95 / 85
p0 −436.9 ± 1306
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 789.7
Std Dev 0
2
1
0
−1
−2

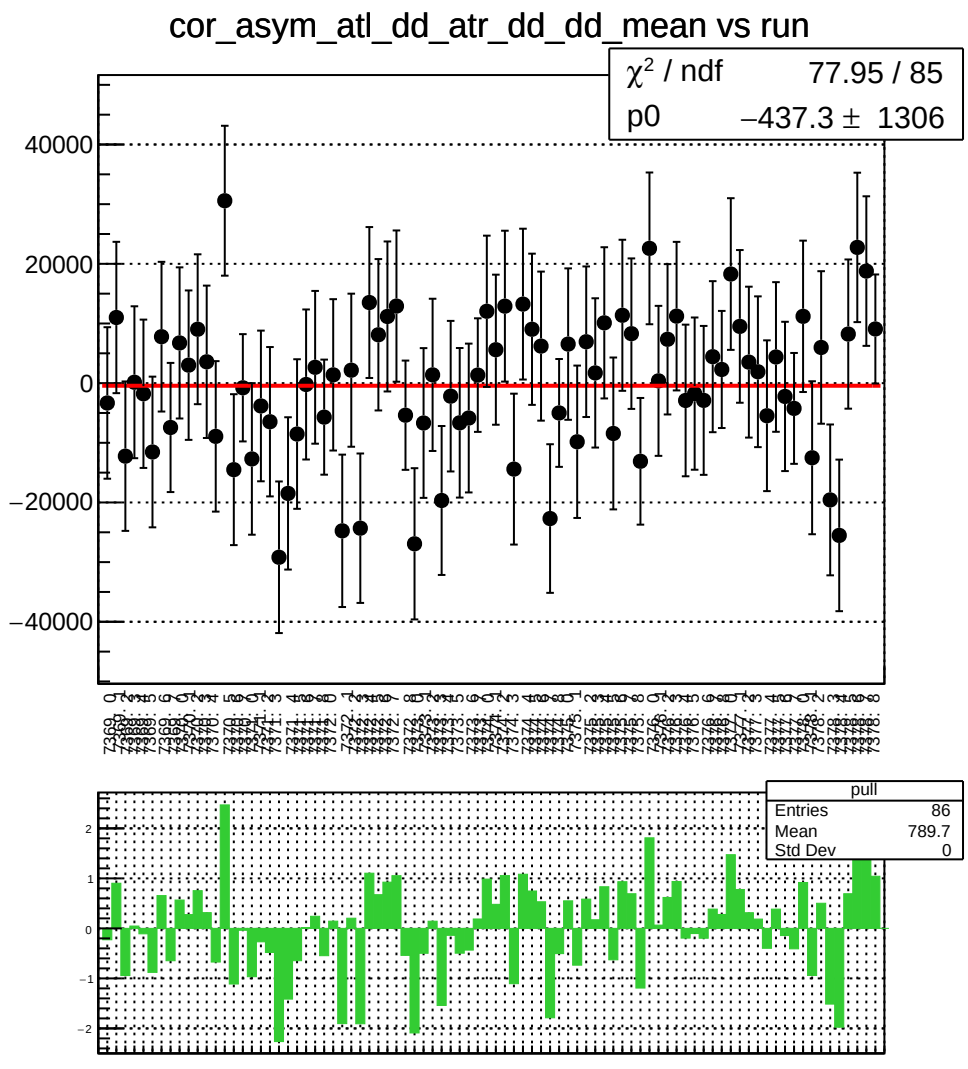

pull1D
Entries 86
Mean 0.005941
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

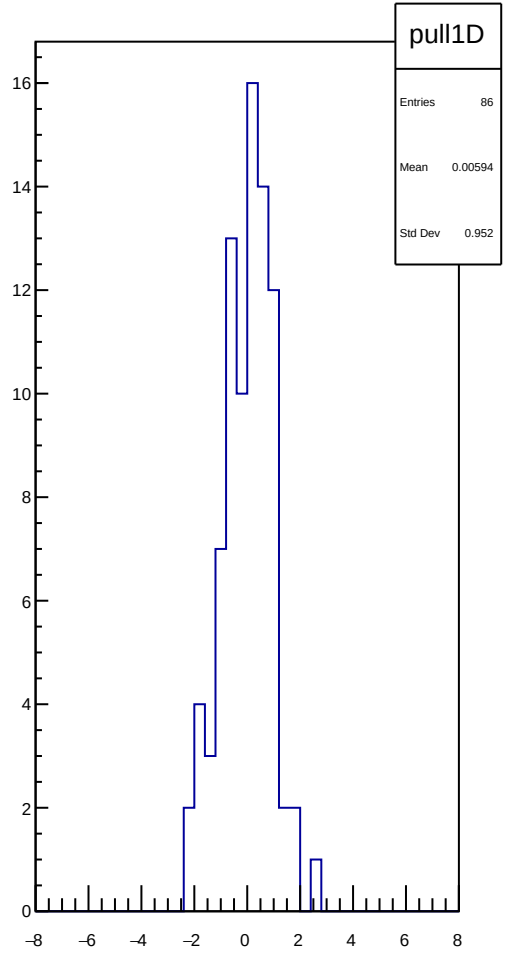

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 88.67 / 85
p0 1199 ± 0.9237
1230
1220
1210
1200
1190
1180
1170

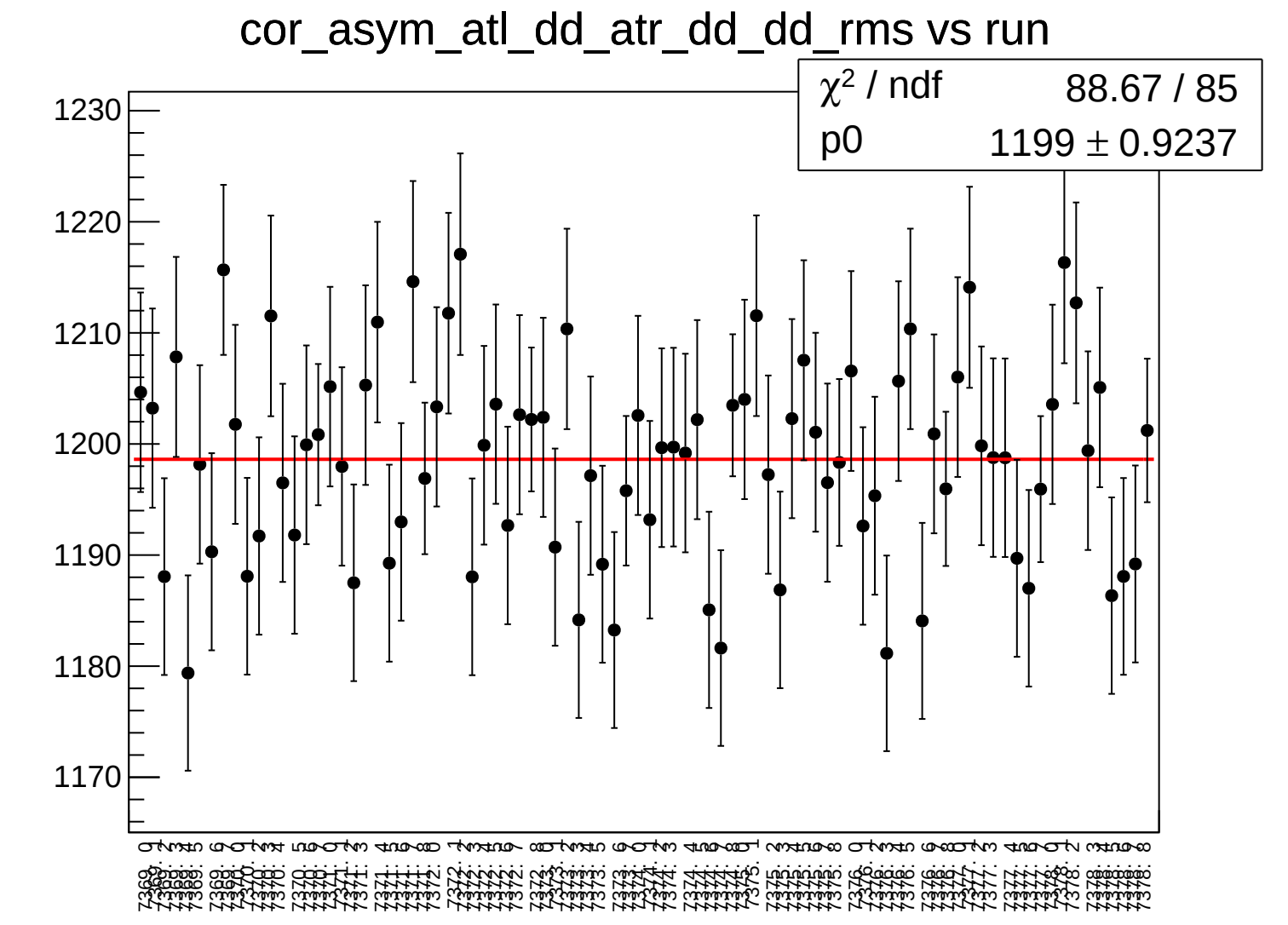

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 92.15 / 85
p0 −462.3 ± 518.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −0.7501
Std Dev 0
2
1
0
−1
−2

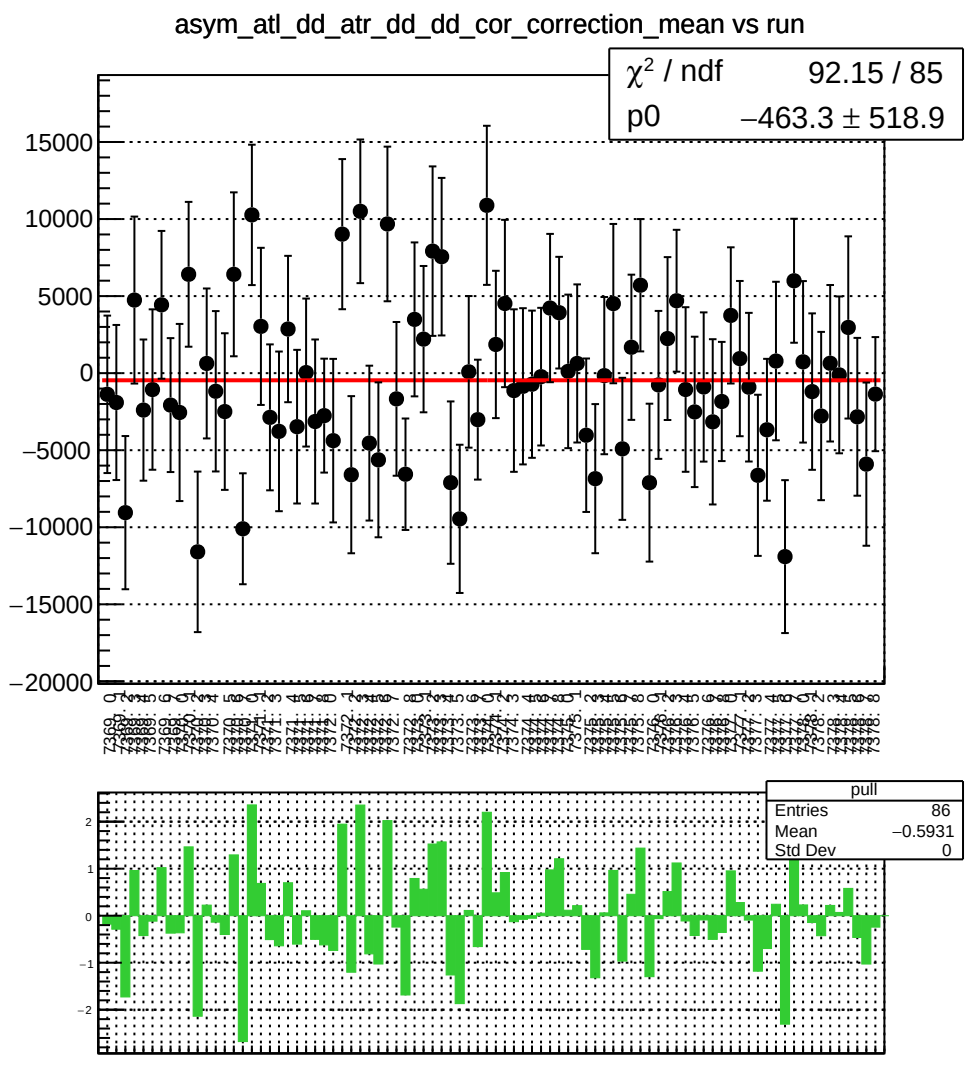

pull1D
Entries 86
Mean 0.008388
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

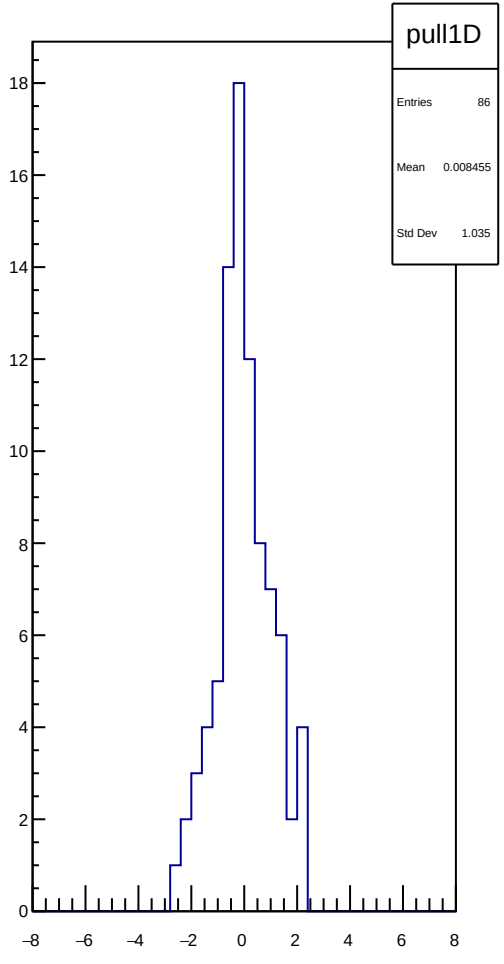

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 4484 / 85
p0 475.5 ± 0.3669
560
540
520
500
480
460
440
420

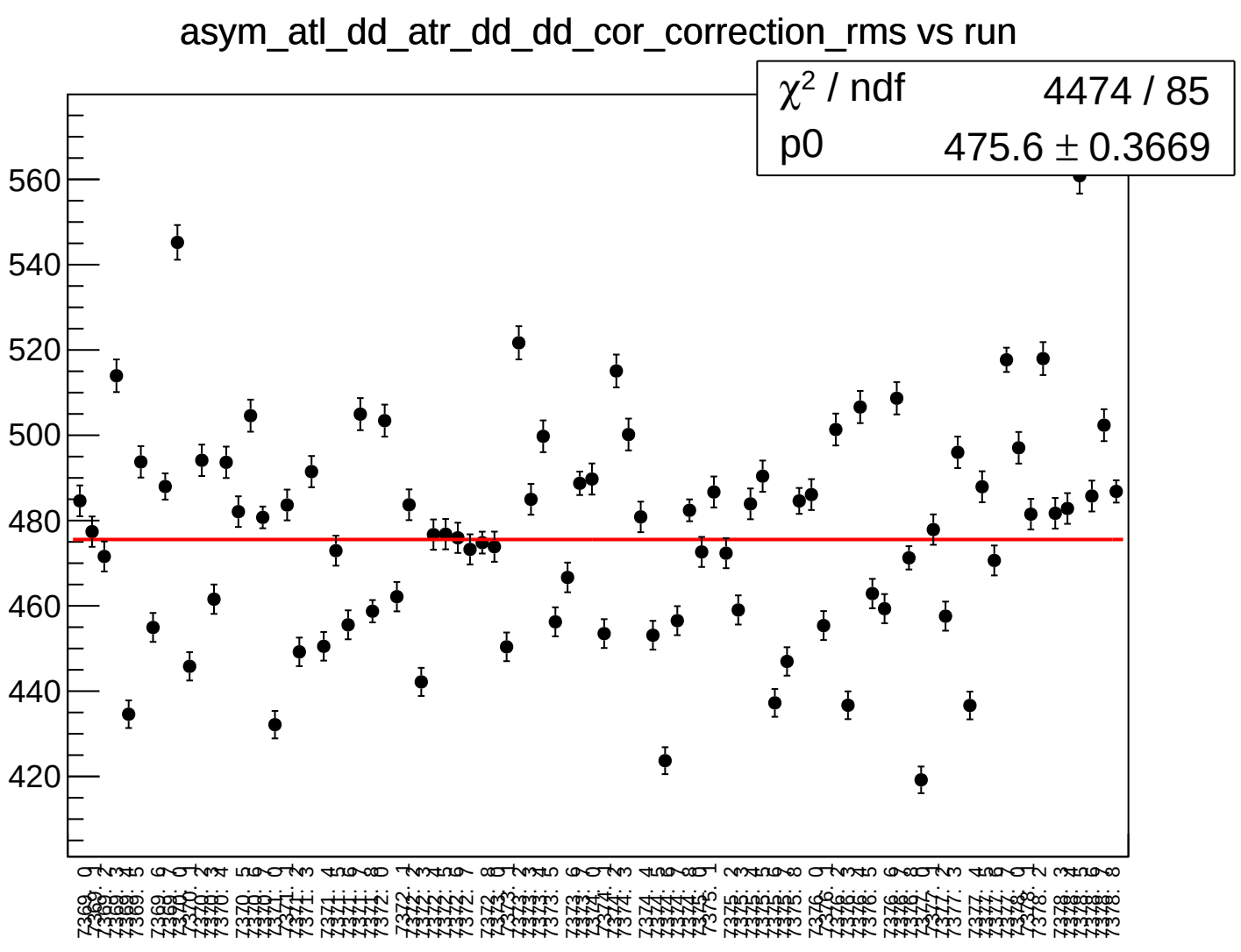

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 77.95 / 85
p0 −437.3 ± 1306
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 789.7
Std Dev 0
2
1
0
−1
−2

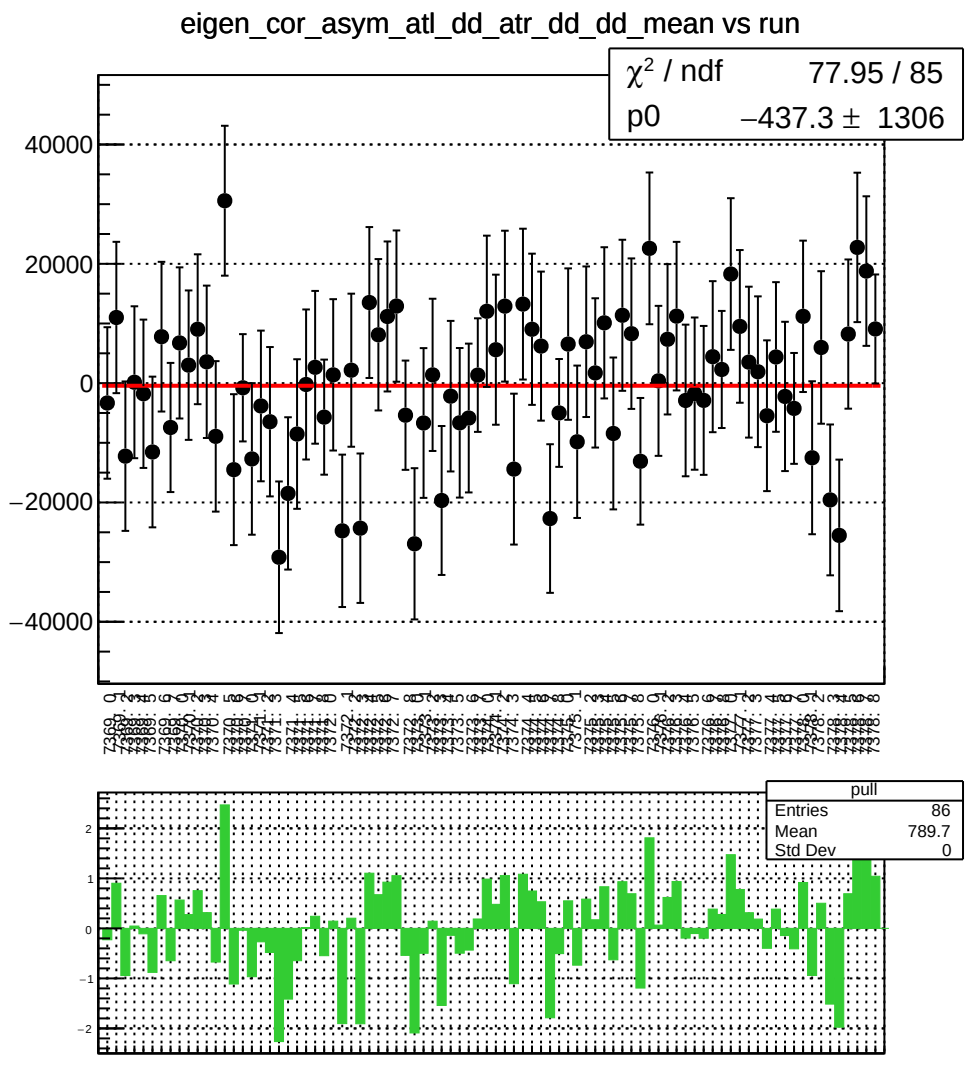

pull1D
Entries 86
Mean 0.00594
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

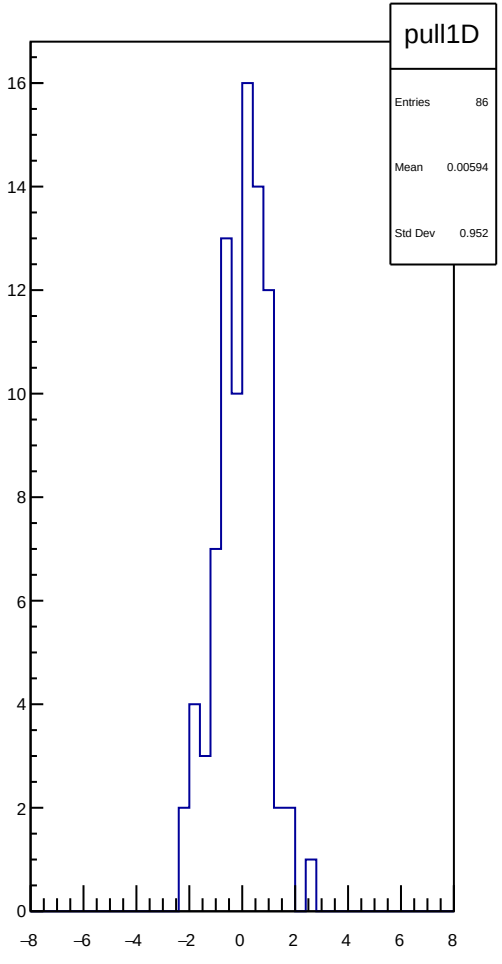

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 88.67 / 85
p0 1199 ± 0.9237
1230
1220
1210
1200
1190
1180
1170

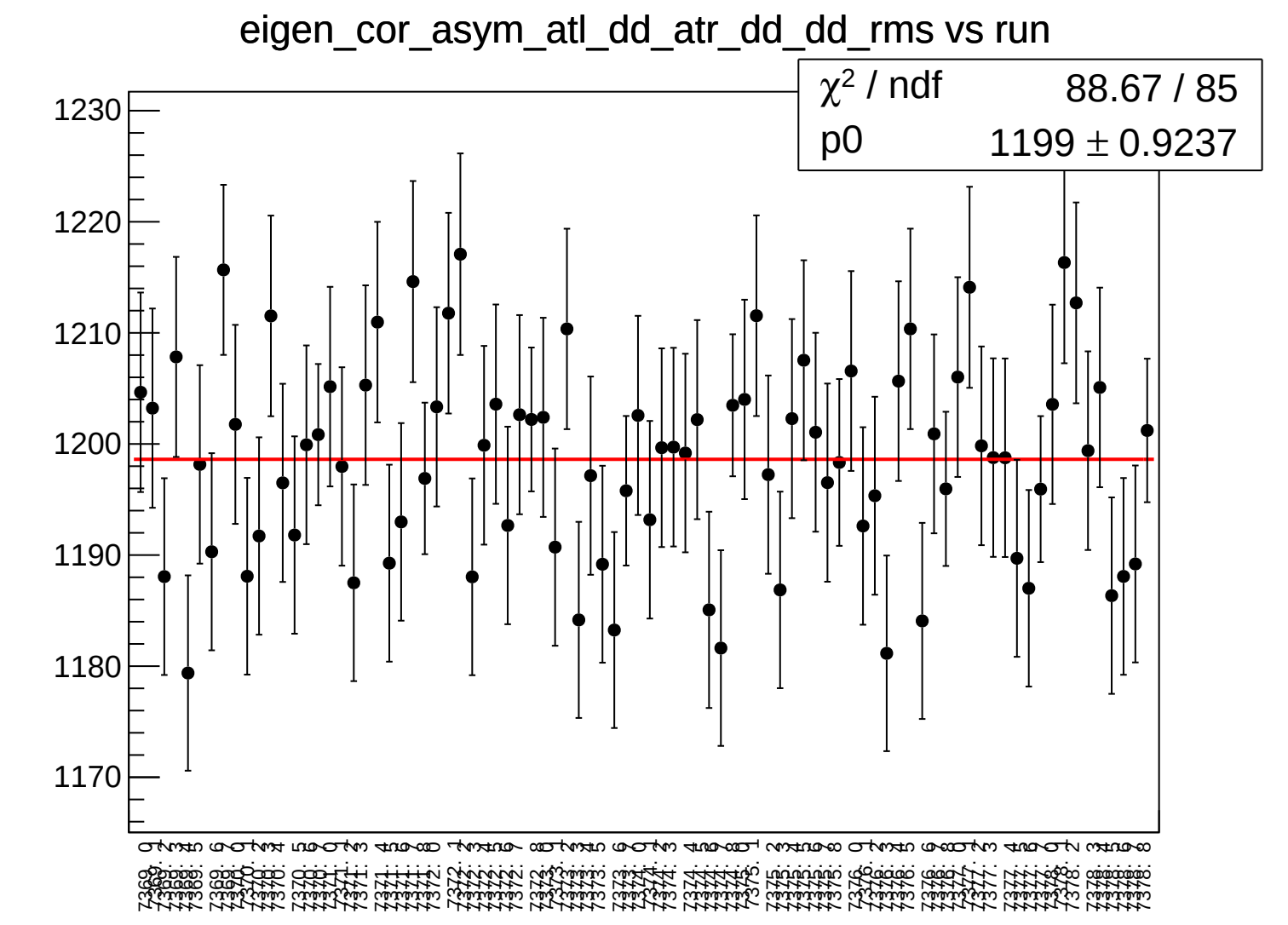

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 92.15 / 85
p0 −463.3 ± 518.9
pull
Entries 86
Mean −0.5931
Std Dev 0

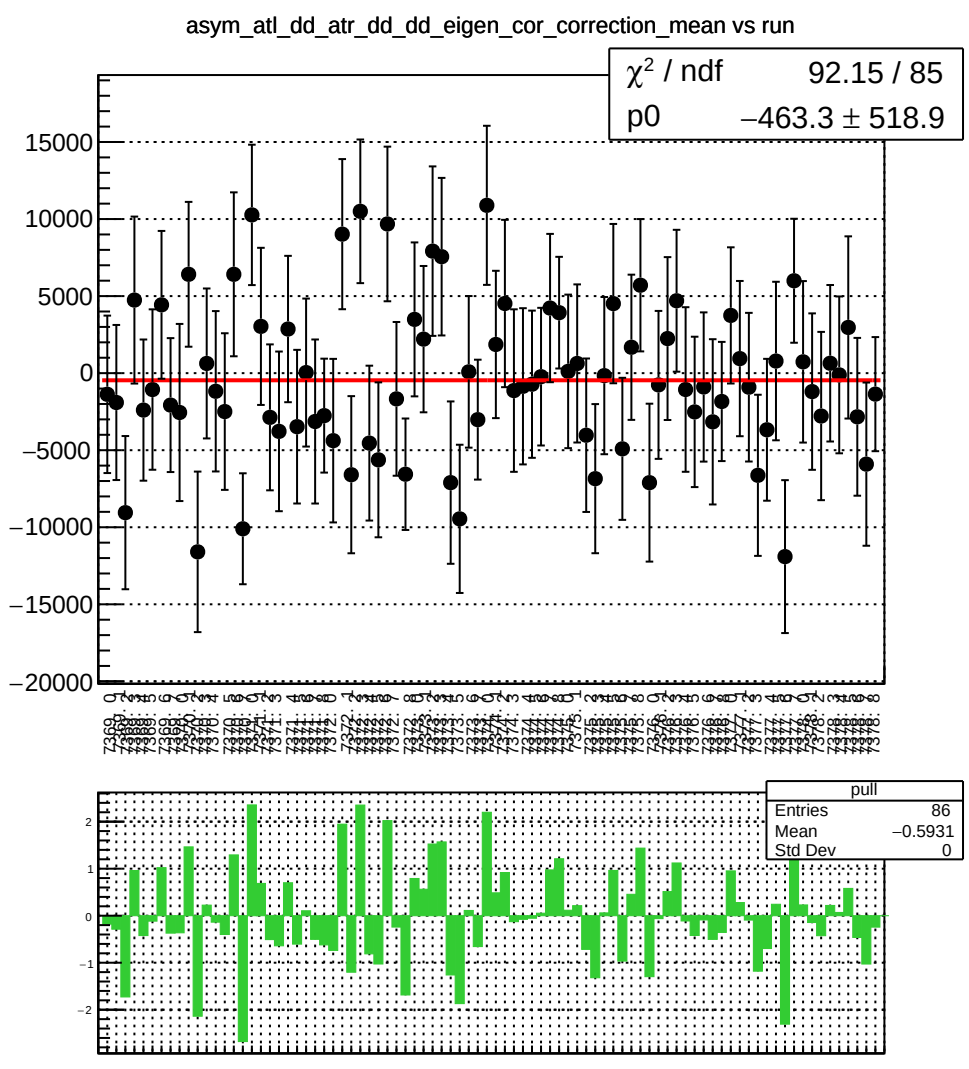

pull1D
Entries 86
Mean 0.008455
Std Dev 1.035

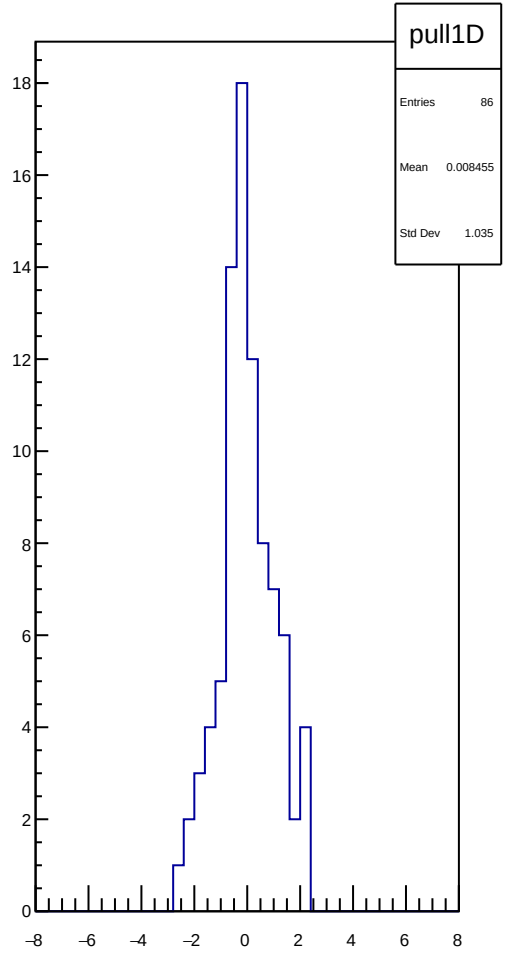

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 4474 / 85
p0 475.6 ± 0.3669
560
540
520
500
480
460
440
420

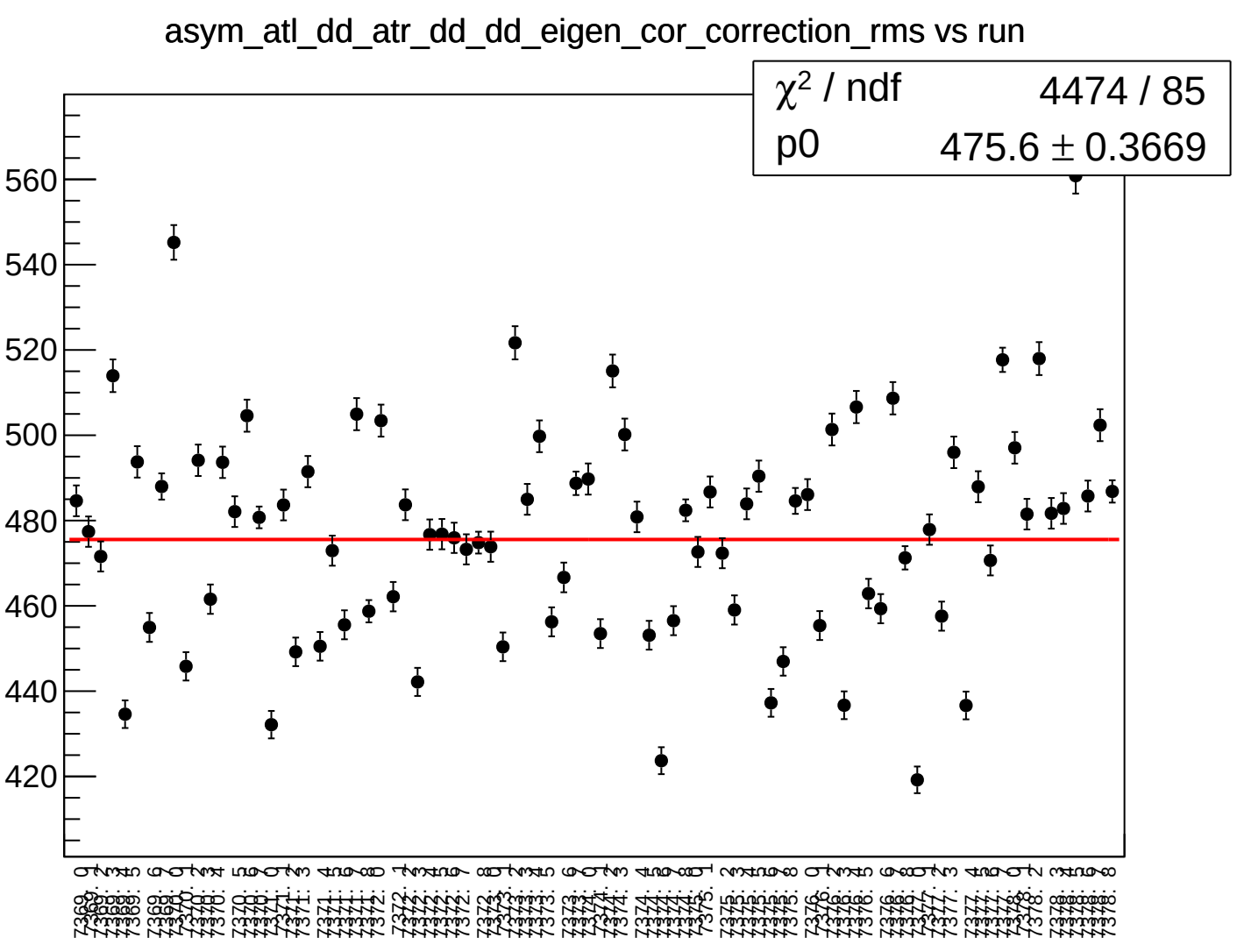

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 77.95 / 85
p0 −437.3 ± 1306
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 789.7
Std Dev 0
2
1
0
−1
−2

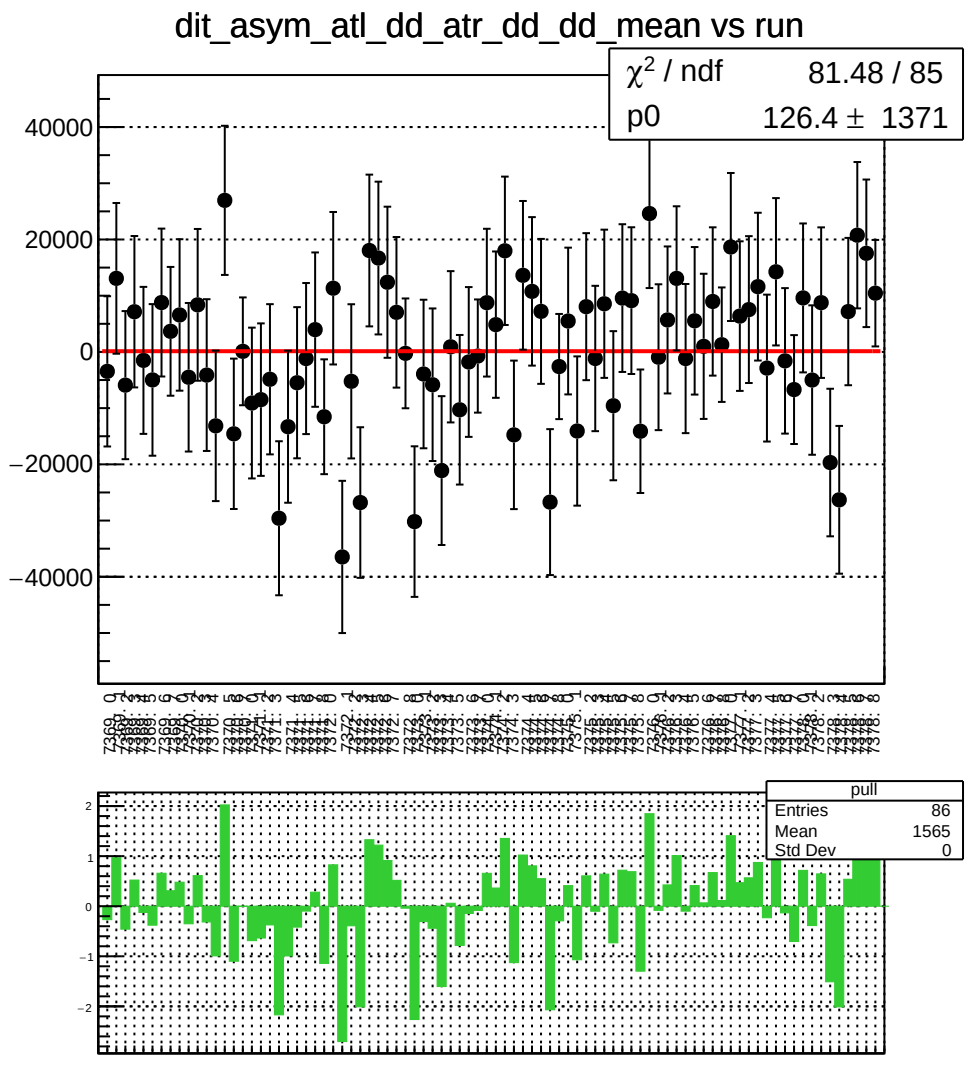

pull1D
Entries 86
Mean 0.00594
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

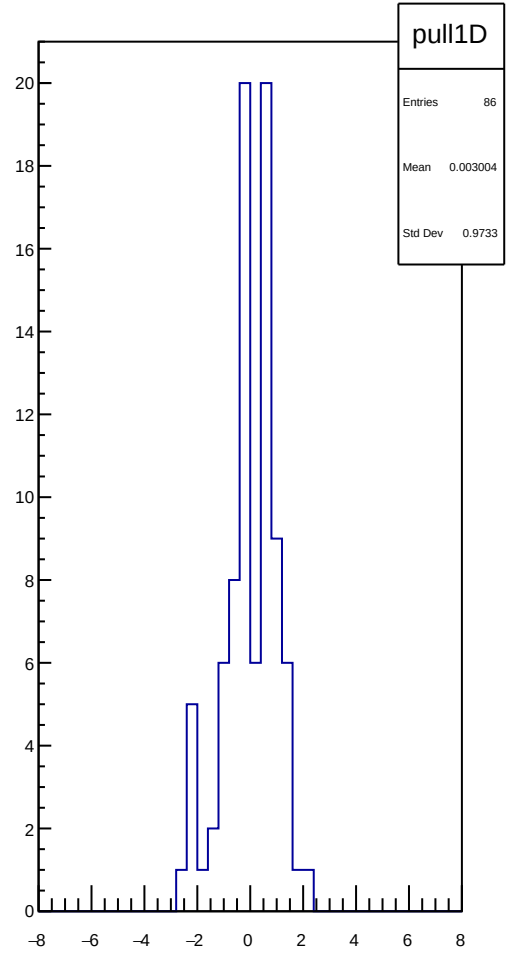

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 88.67 / 85
p0 1199 ± 0.9237
1230
1220
1210
1200
1190
1180
1170

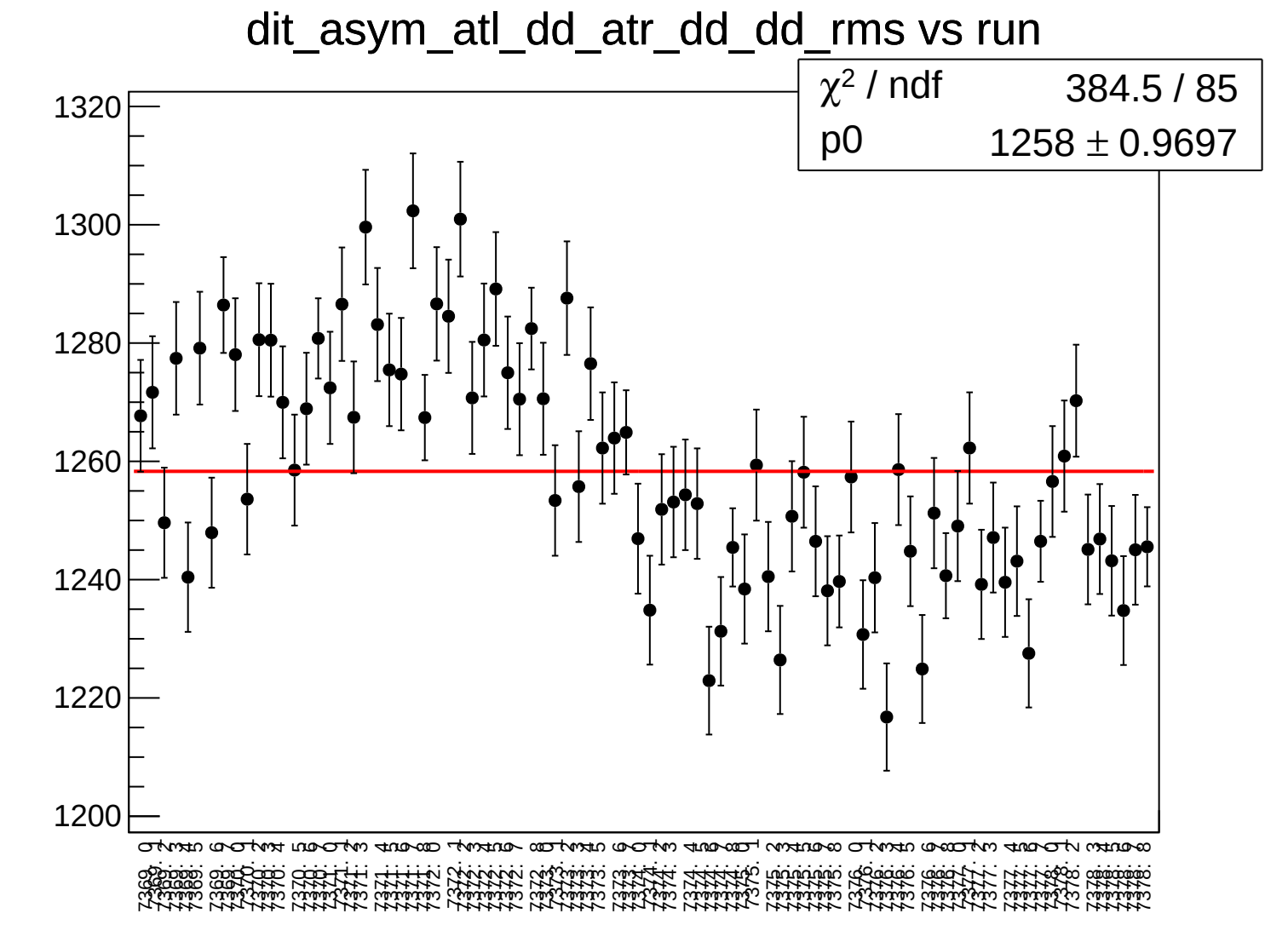

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.15 / 85
p0 −463.3 ± 518.9
pull
Entries 86
Mean −0.5931
Std Dev 0

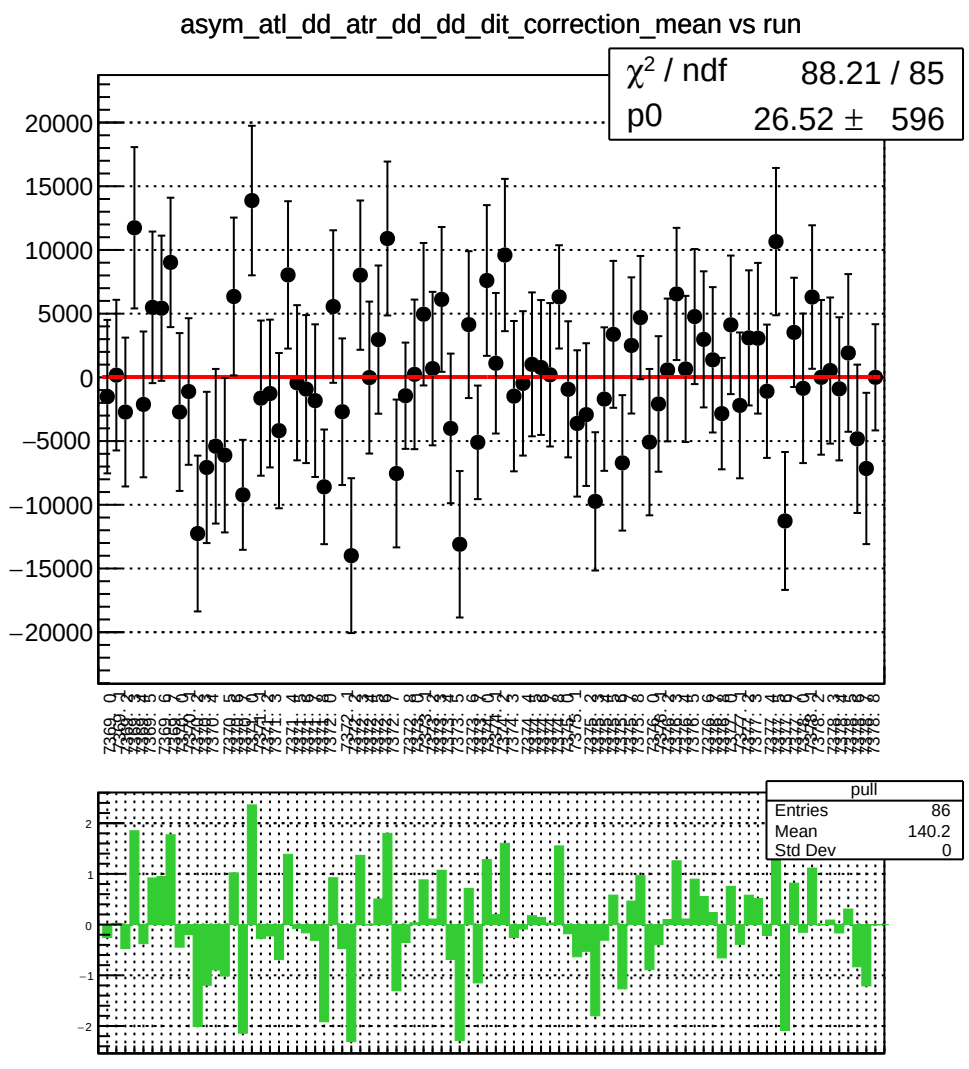

pull1D
Entries 86
Mean 0.008455
Std Dev 1.035

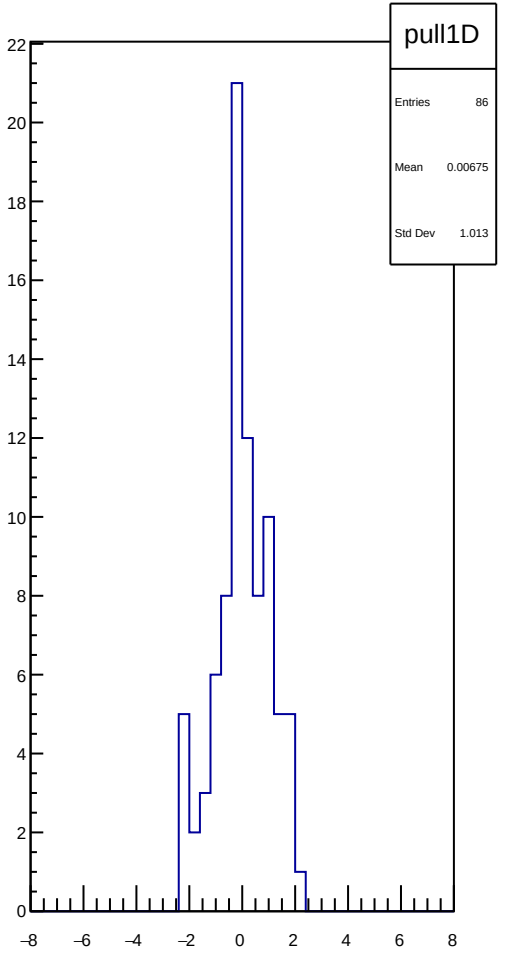

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4474 / 85
p0 475.6 ± 0.3669
560
540
520
500
480
460
440
420

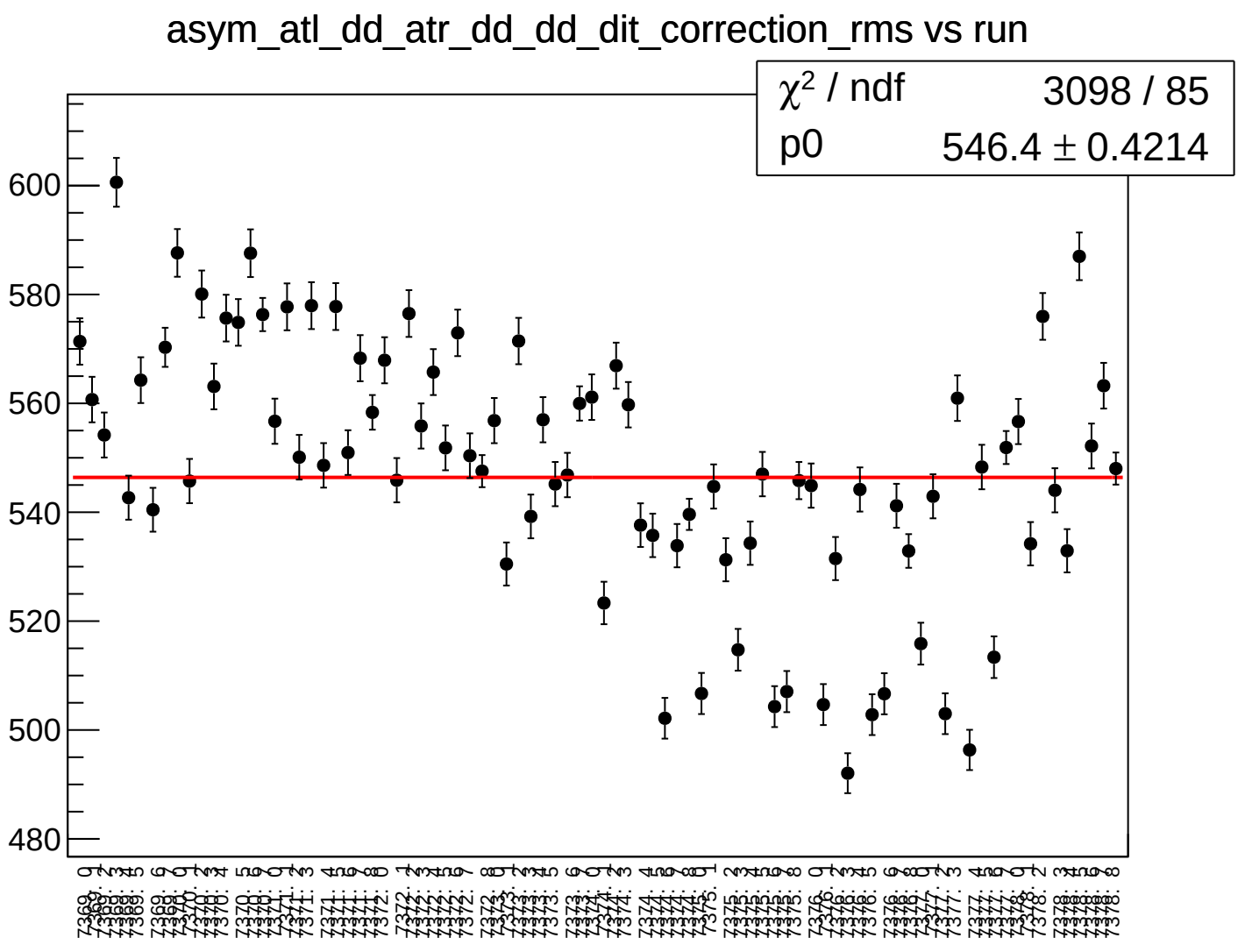

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.48 / 85
p0 126.4 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 1565
Std Dev 0
2
1
0
−1
−2

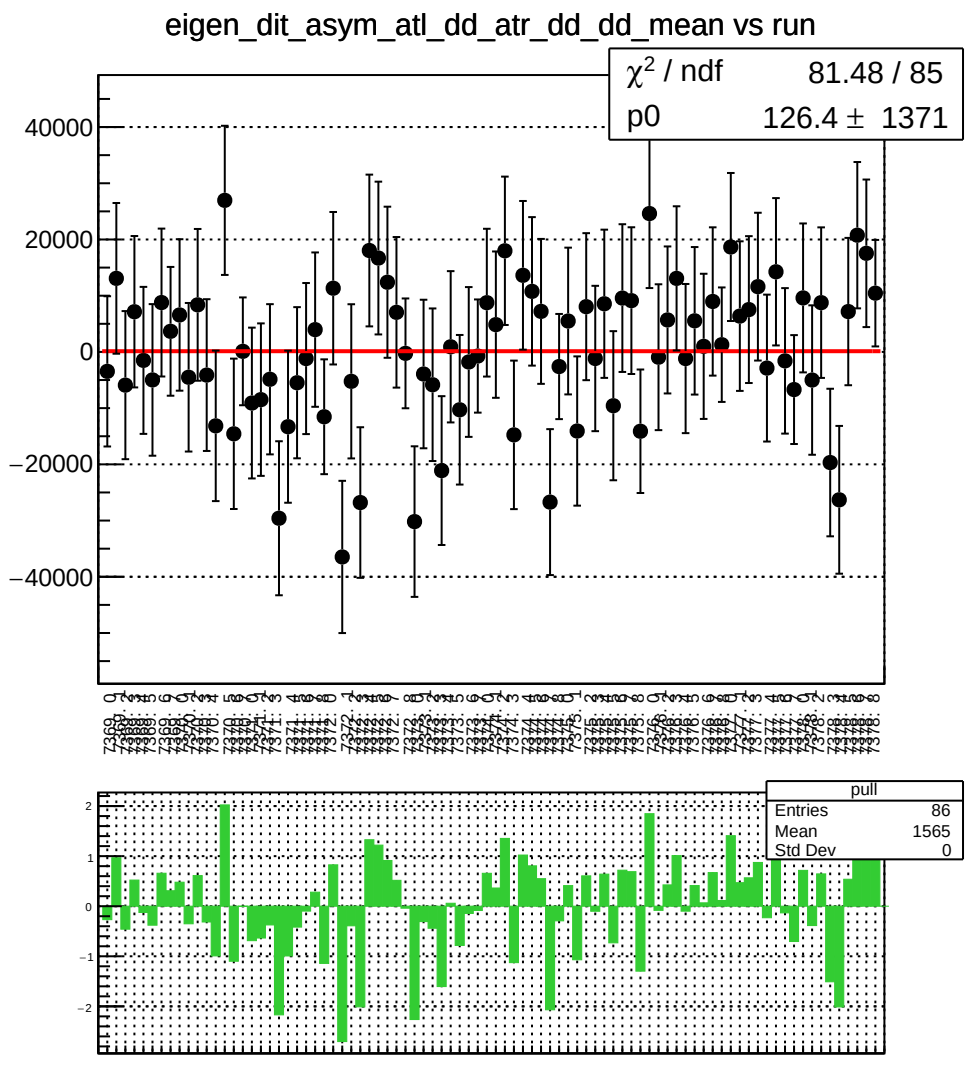

pull1D
Entries 86
Mean 0.003004
Std Dev 0.9733
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

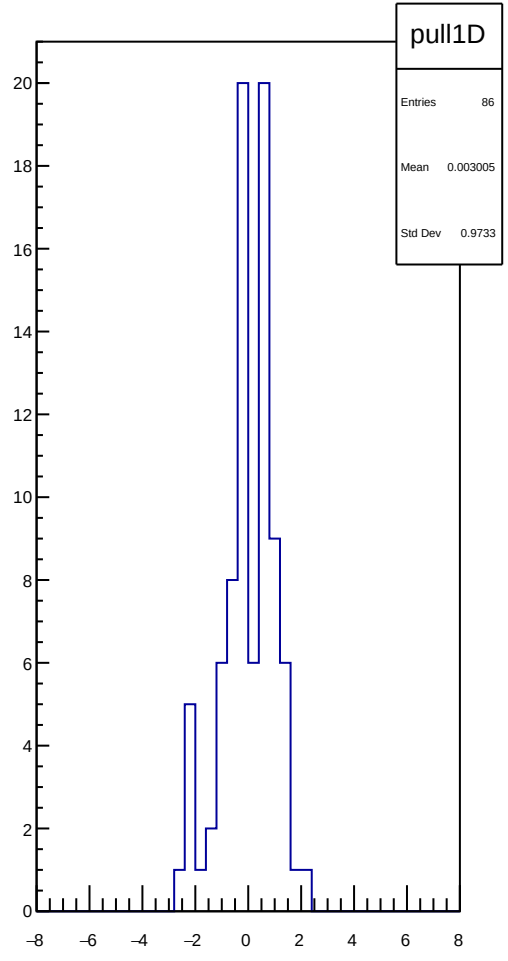

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 384.5 / 85
p0 1258 ± 0.9697
1320
1300
1280
1260
1240
1220
1200

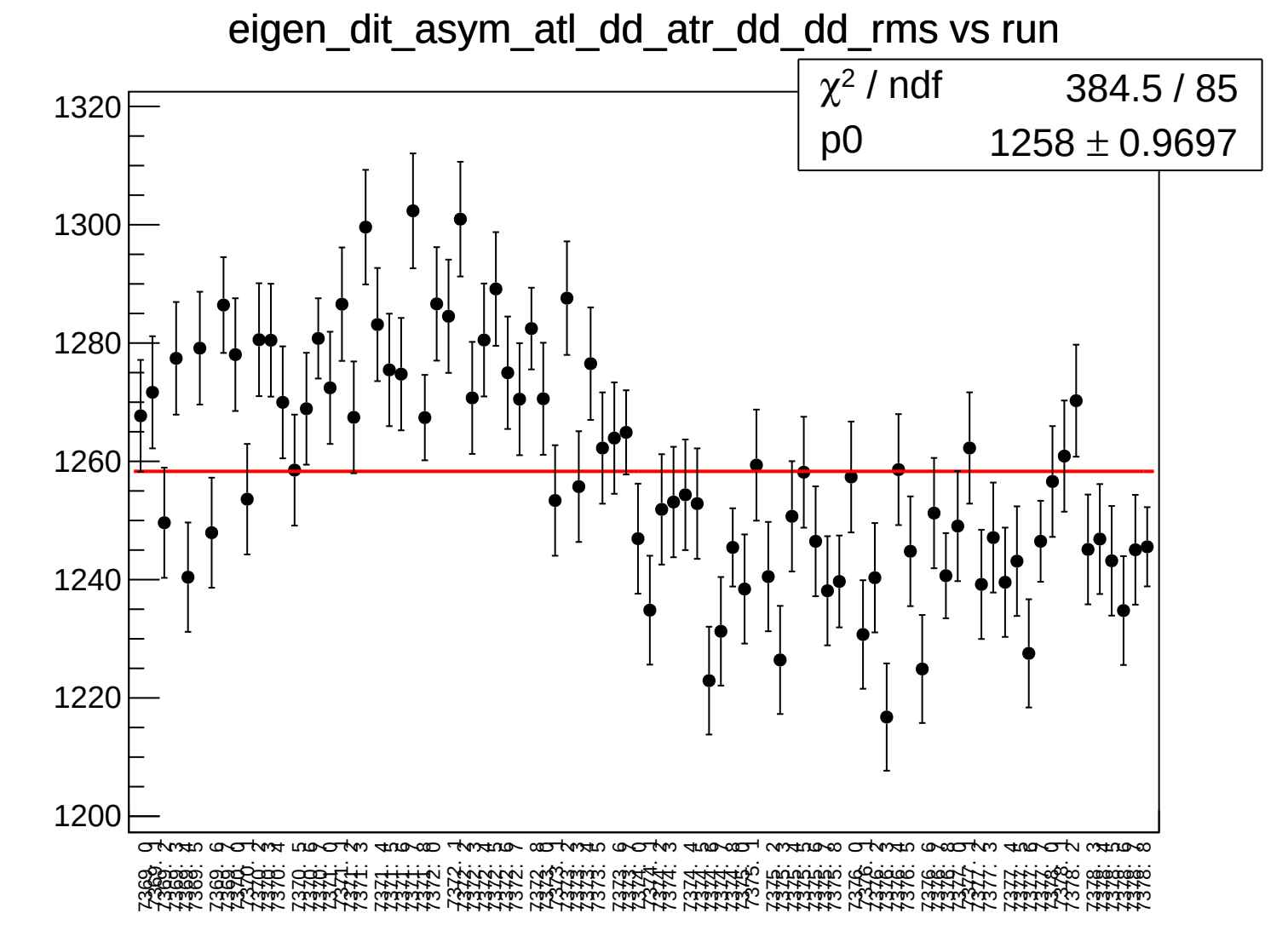

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 88.21 / 85
p0 26.52 ± 596
pull
Entries 86
Mean 140.2
Std Dev 0

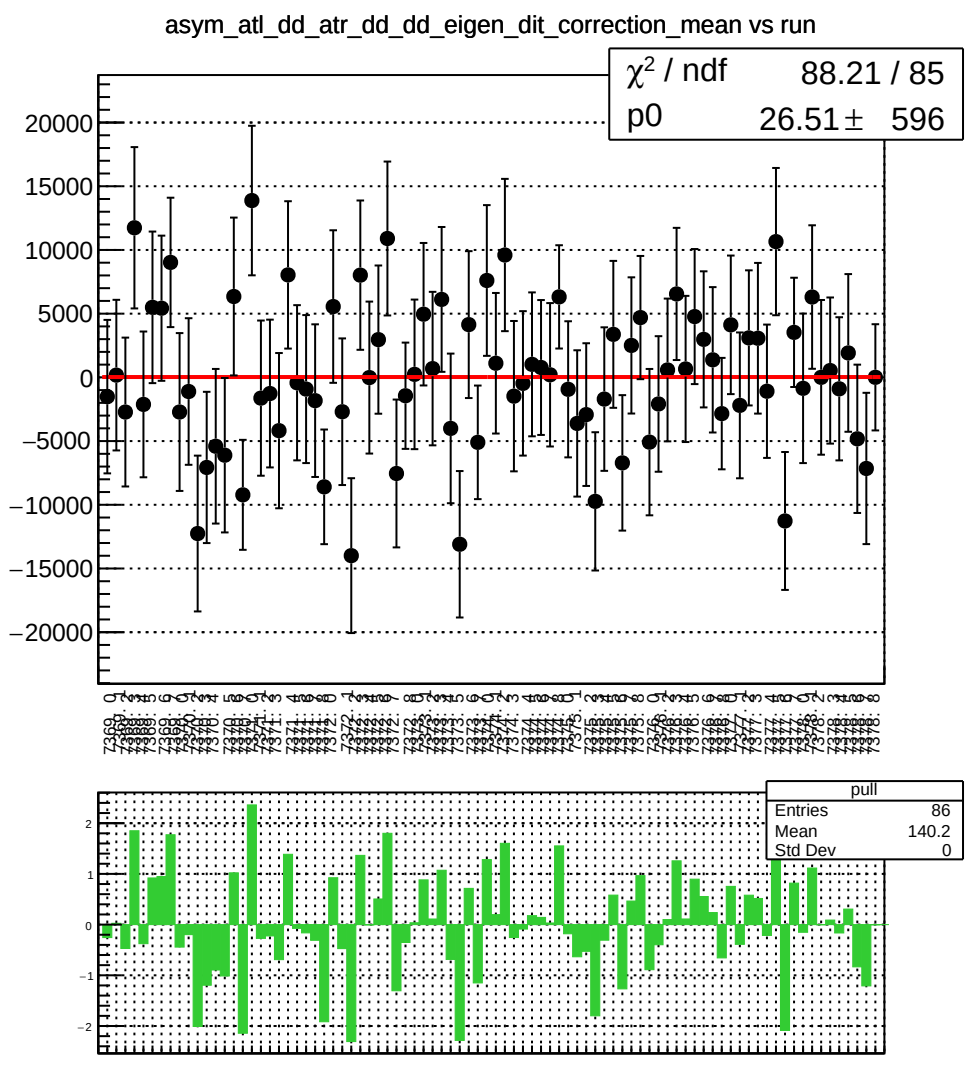

pull1D
Entries 86
Mean 0.00675
Std Dev 1.013

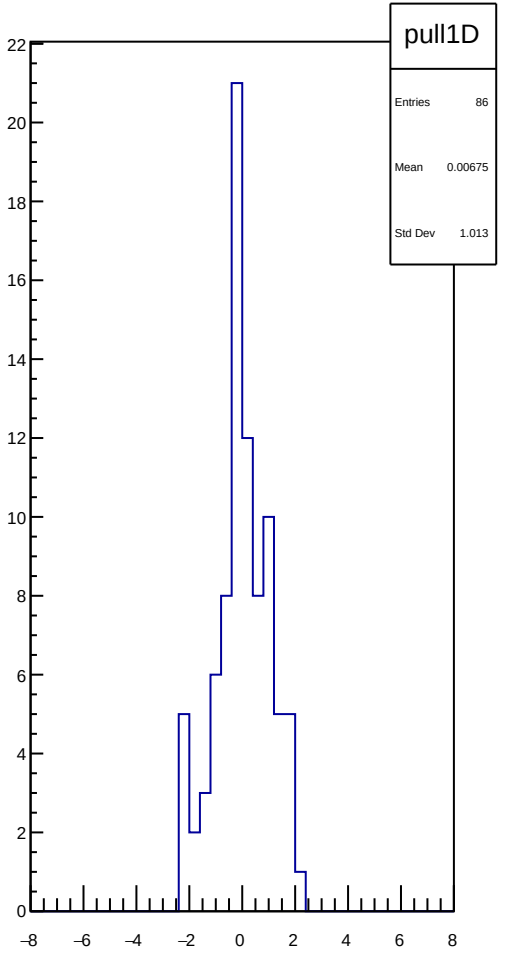

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 3098 / 85
p0 546.4 ± 0.4214
600
580
560
540
520
500
480

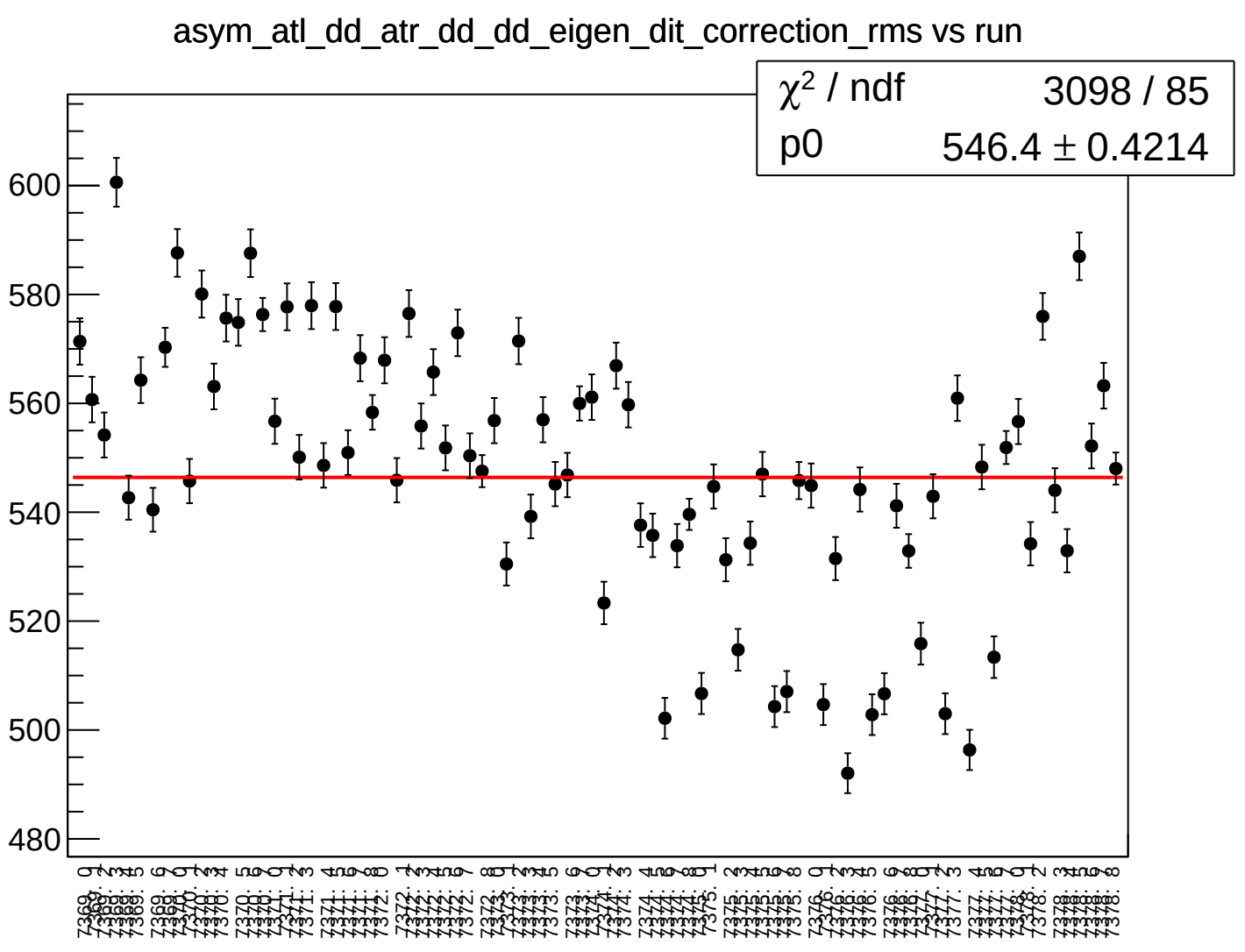

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.48 / 85
p0 126.4 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 1565
Std Dev 0
2
1
0
−1
−2

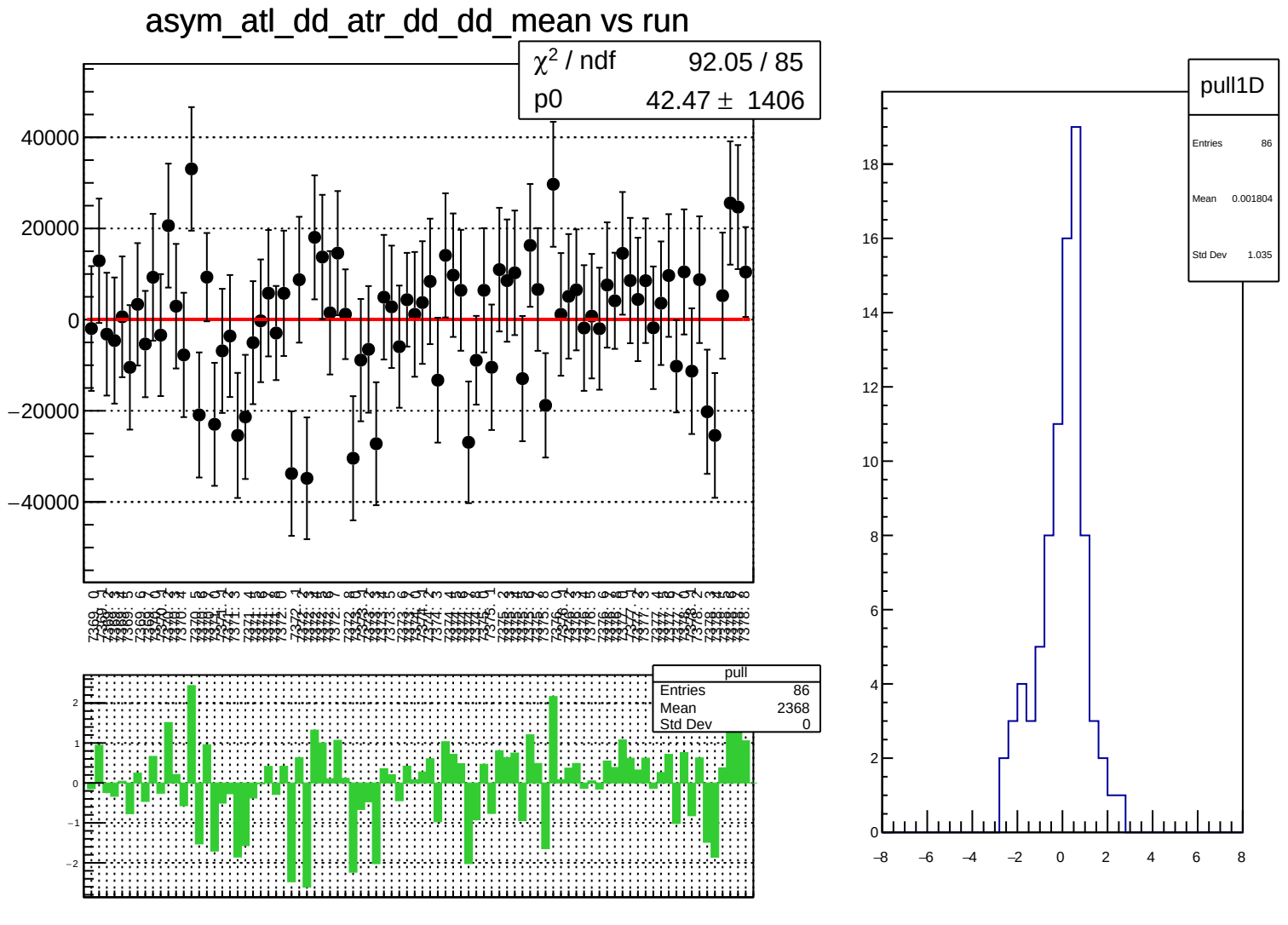

pull1D
Entries 86
Mean 0.003005
Std Dev 0.9733
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

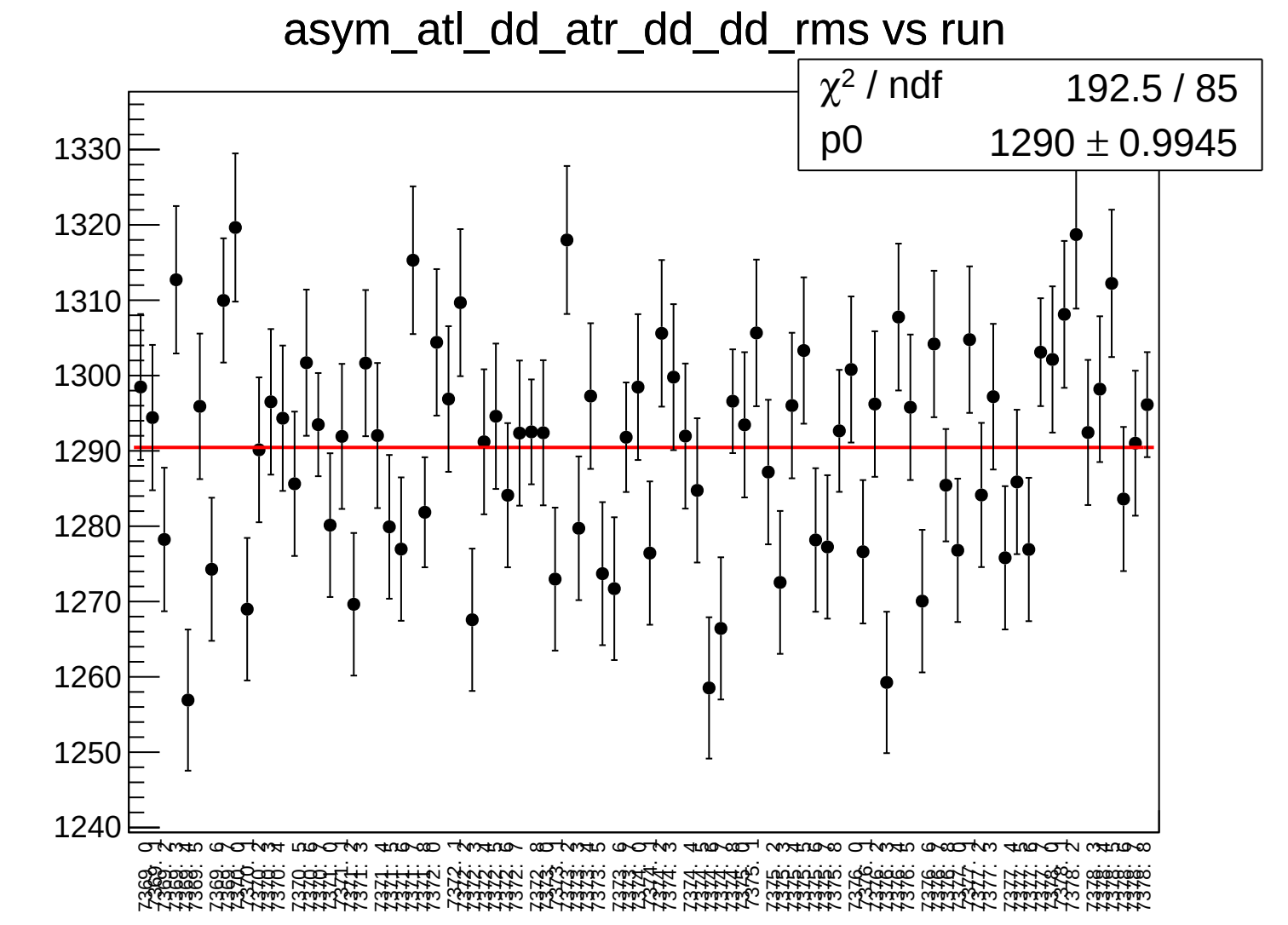

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 384.5 / 85
p0 1258 ± 0.9697
1320
1300
1280
1260
1240
1220
1200

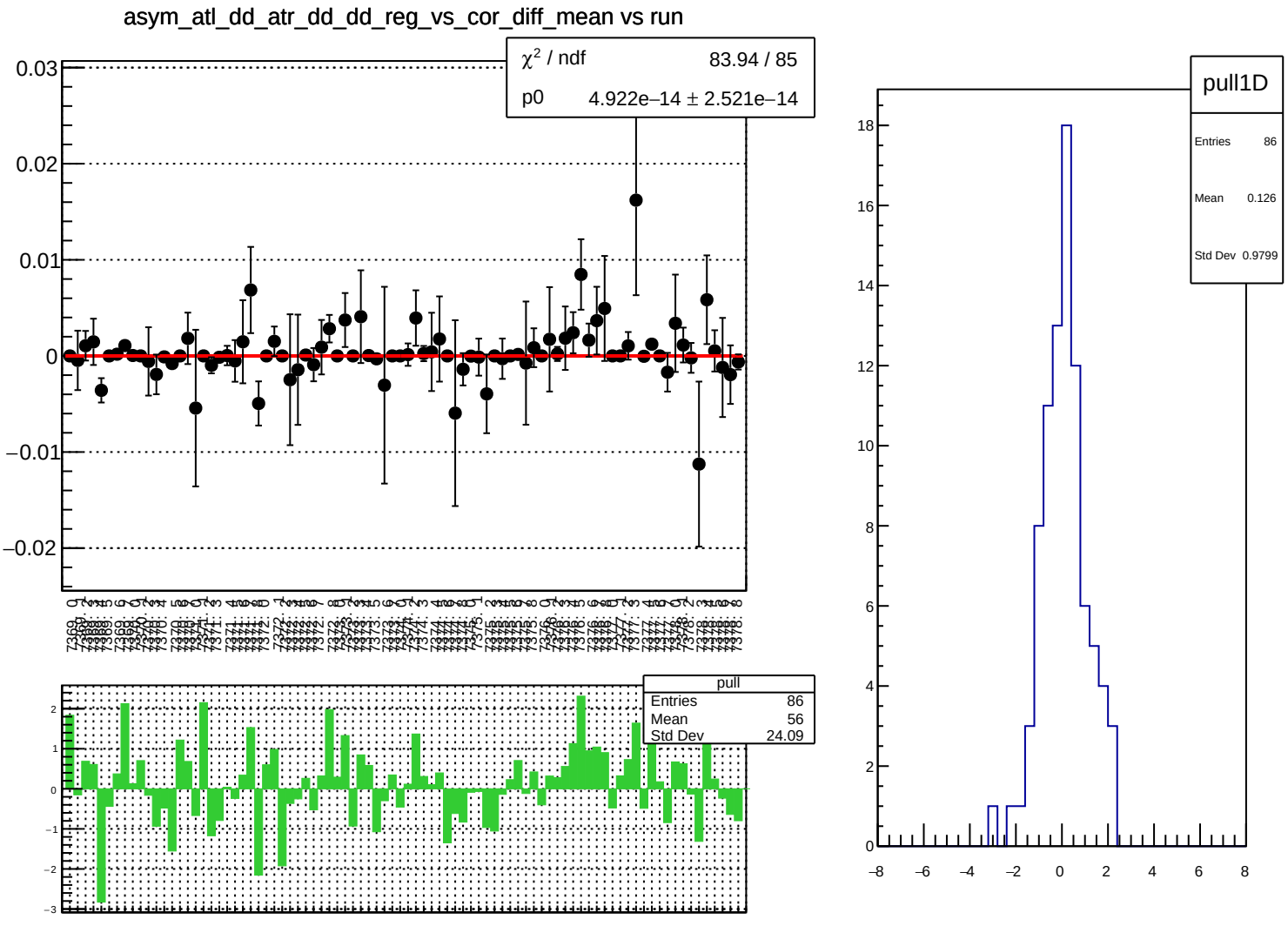

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.21 / 85
p0 26.51 ± 596
pull
Entries 86
Mean 140.2
Std Dev 0

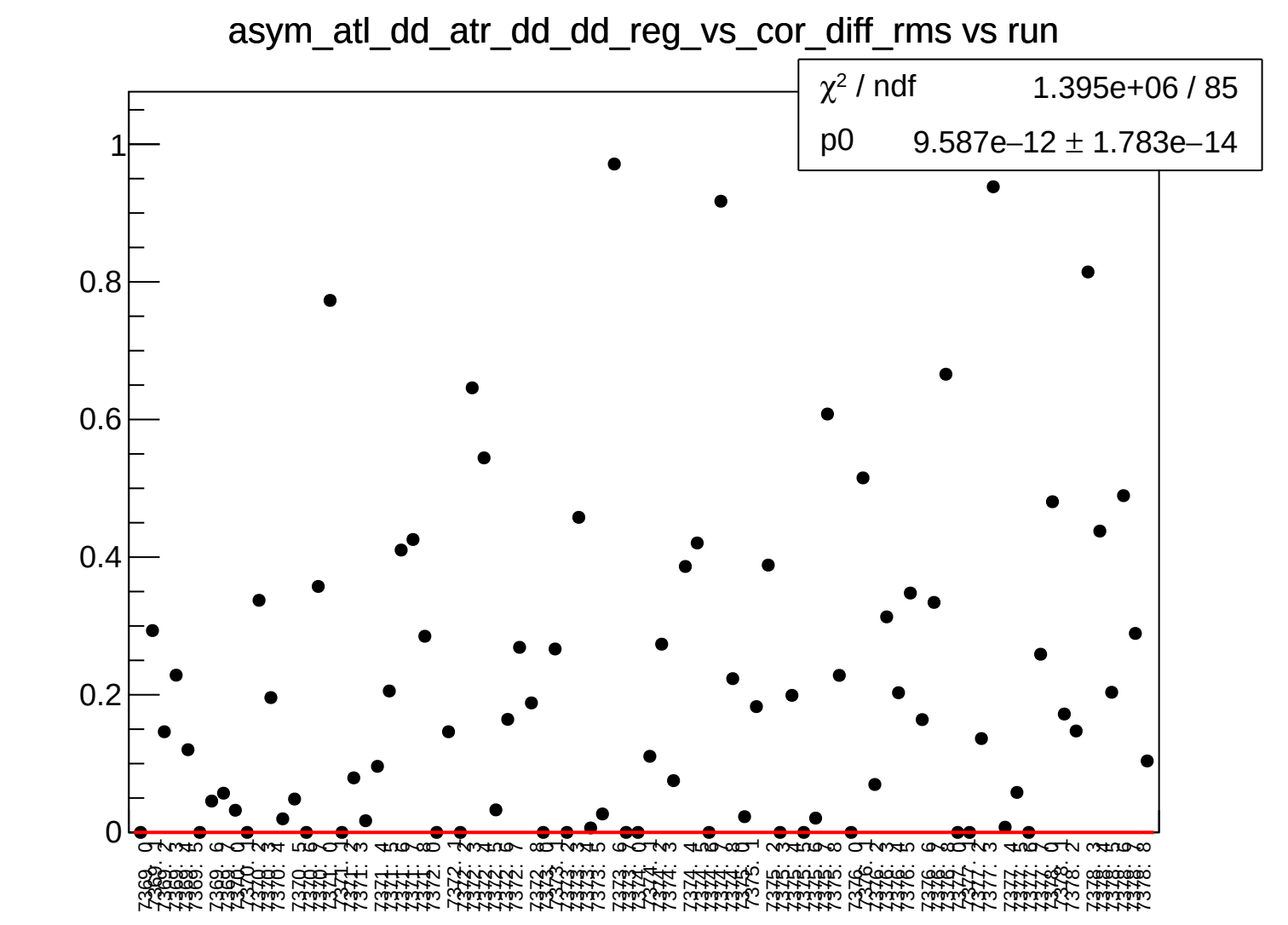

pull1D
Entries 86
Mean 0.00675
Std Dev 1.013

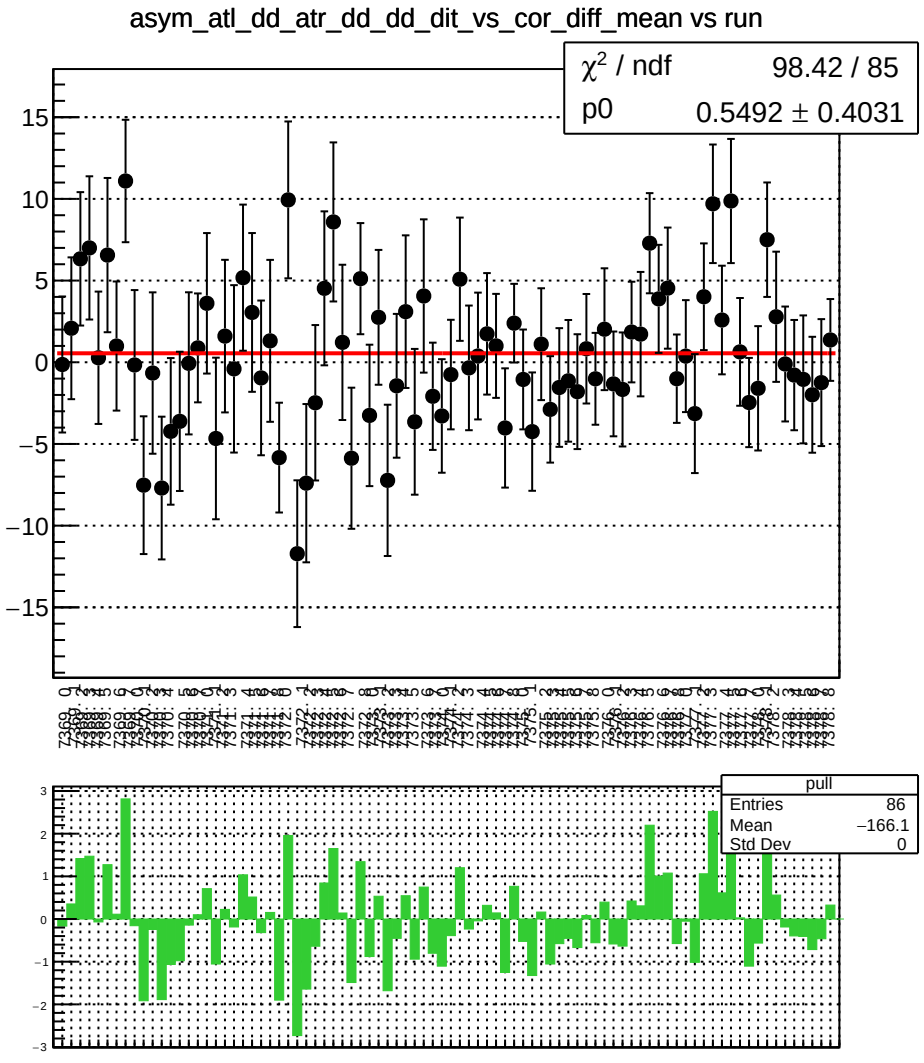

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3098 / 85
p0 546.4 ± 0.4214
600
580
560
540
520
500
480

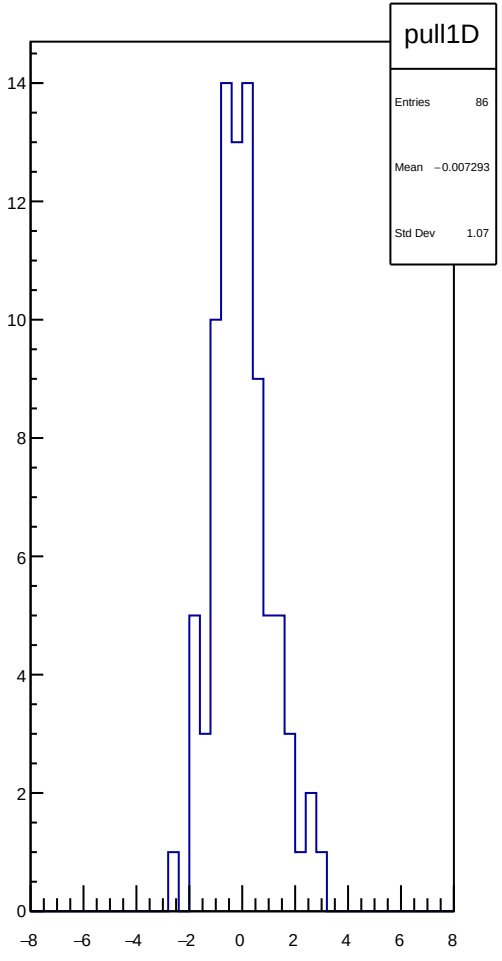

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 92.05 / 85
p0 42.47 ± 1406
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 2368
Std Dev 0
pull1D
Entries 86
Mean 0.001804
Std Dev 1.035

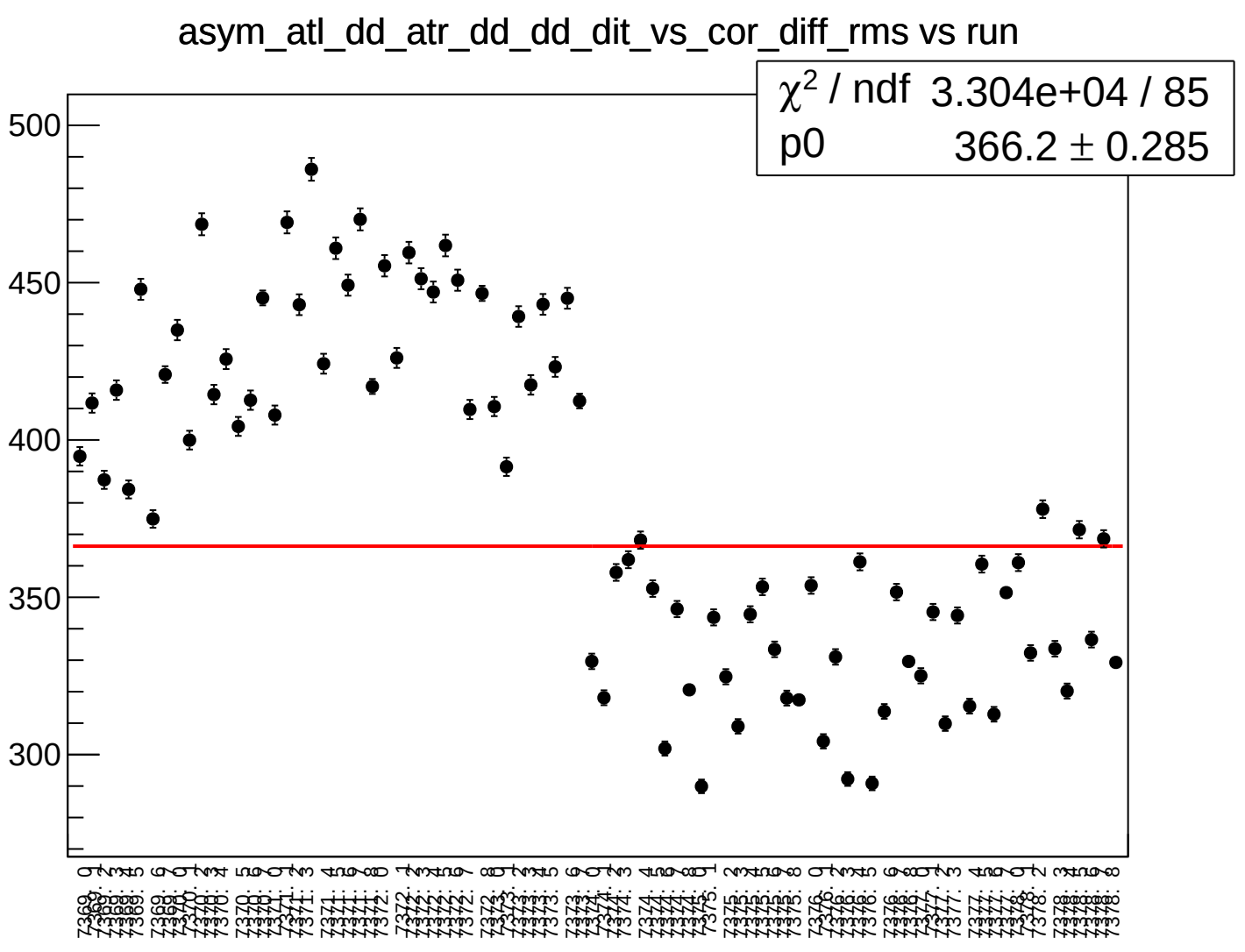

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 192.5 / 85
p0 1290 ± 0.9945
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

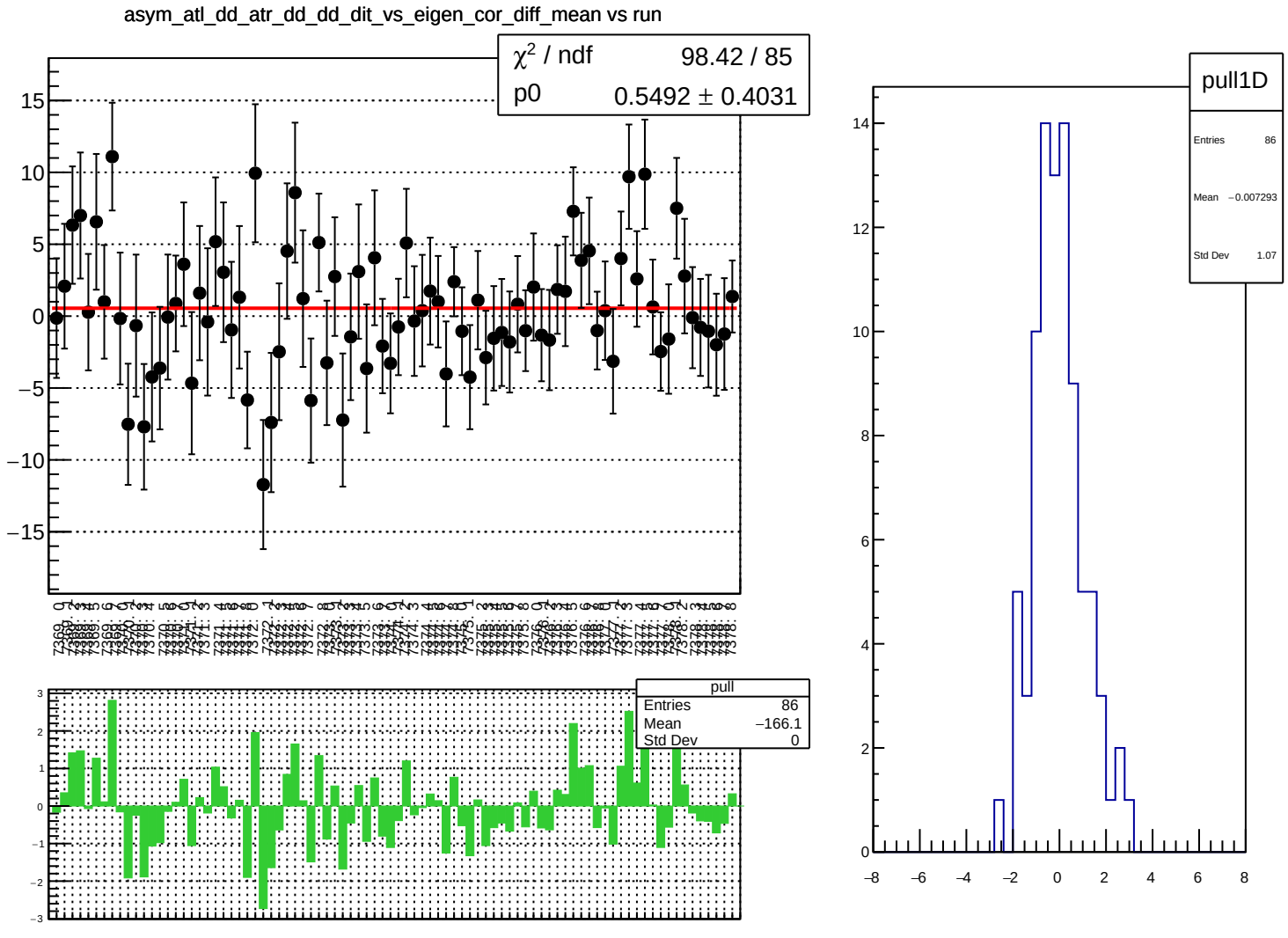

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.94 / 85
p0 4.922e−14 ± 2.521e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 56
Std Dev 24.09
pull1D
Entries 86
Mean 0.126
Std Dev 0.9799

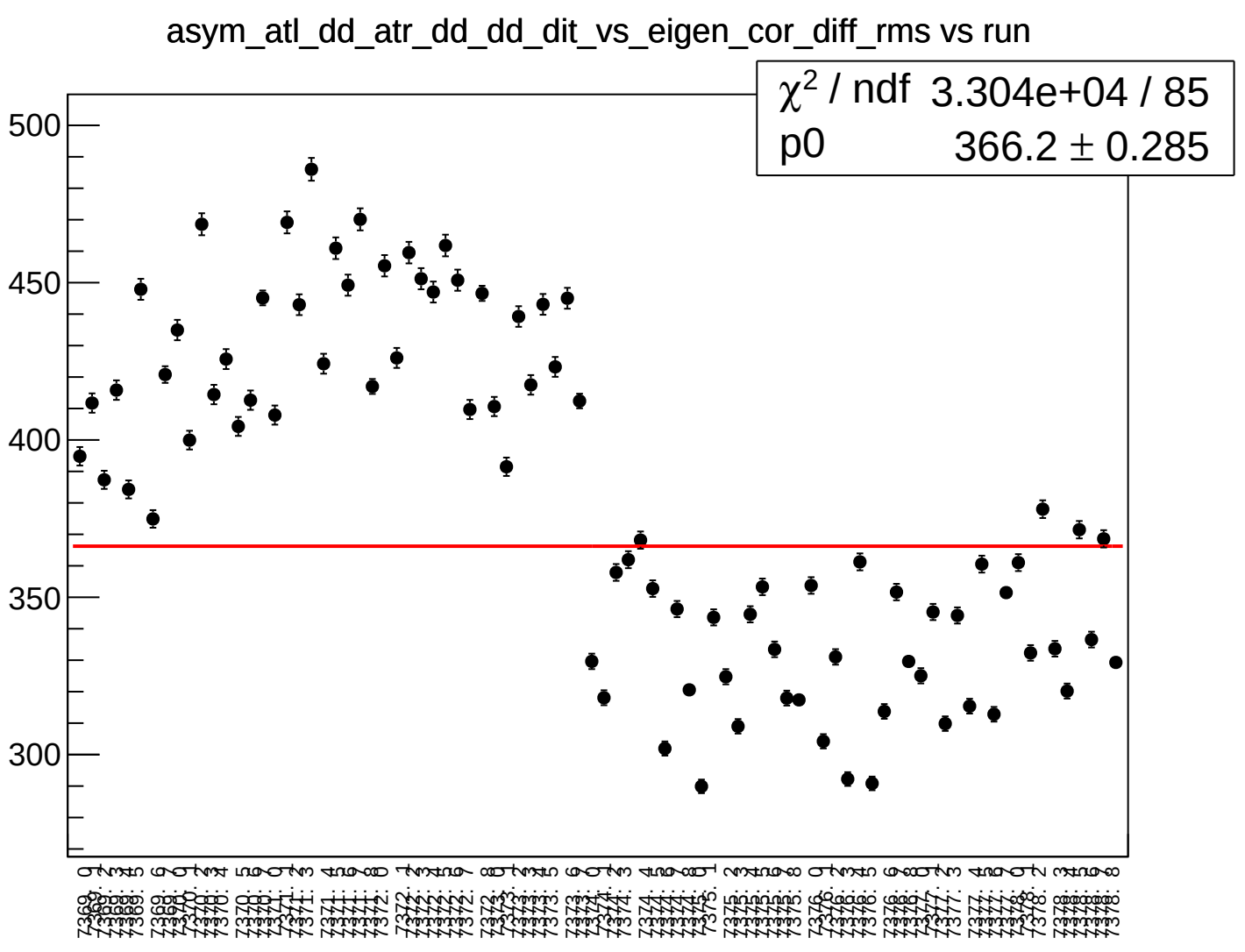

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.395e+06 / 85
p0 9.587e−12 ± 1.783e−14
1
0.8
0.6
0.4
0.2
0

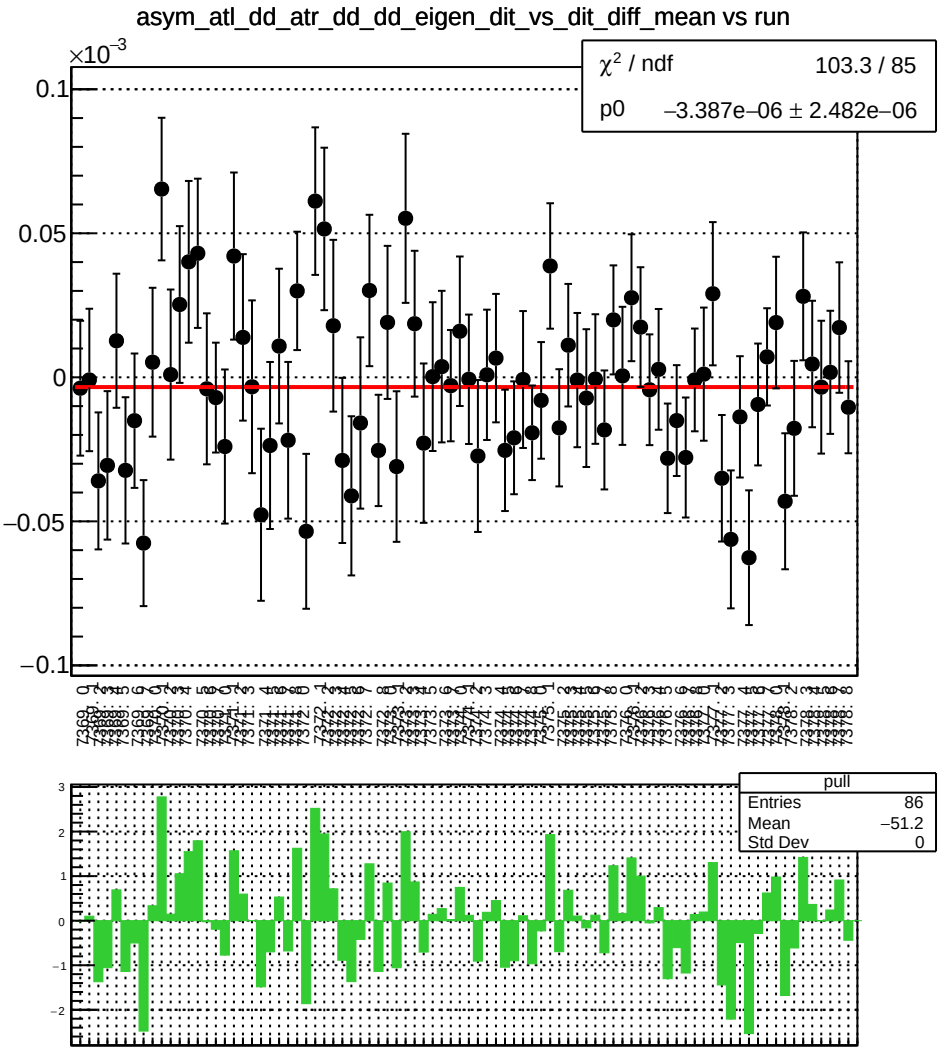

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.42 / 85
p0 0.5492 ± 0.4031
pull
Entries 86
Mean −166.1
Std Dev 0

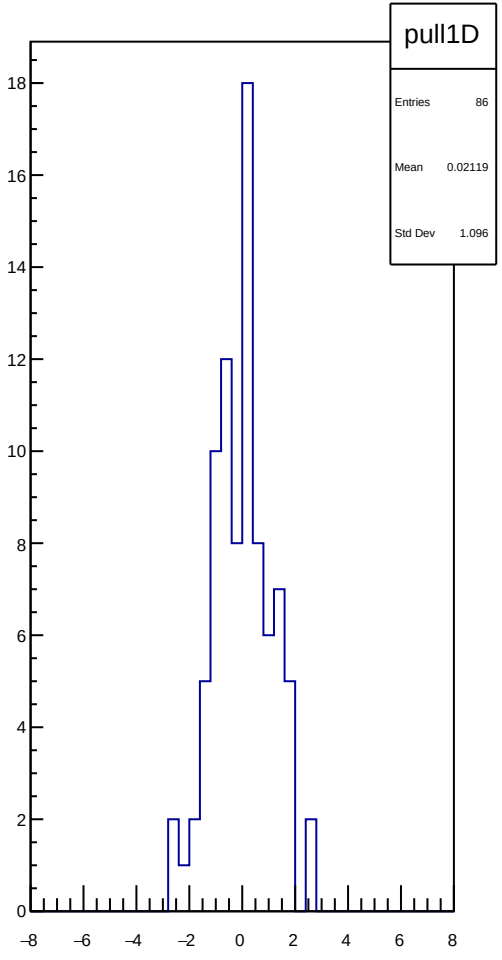

pull1D
Entries 86
Mean −0.007293
Std Dev 1.07

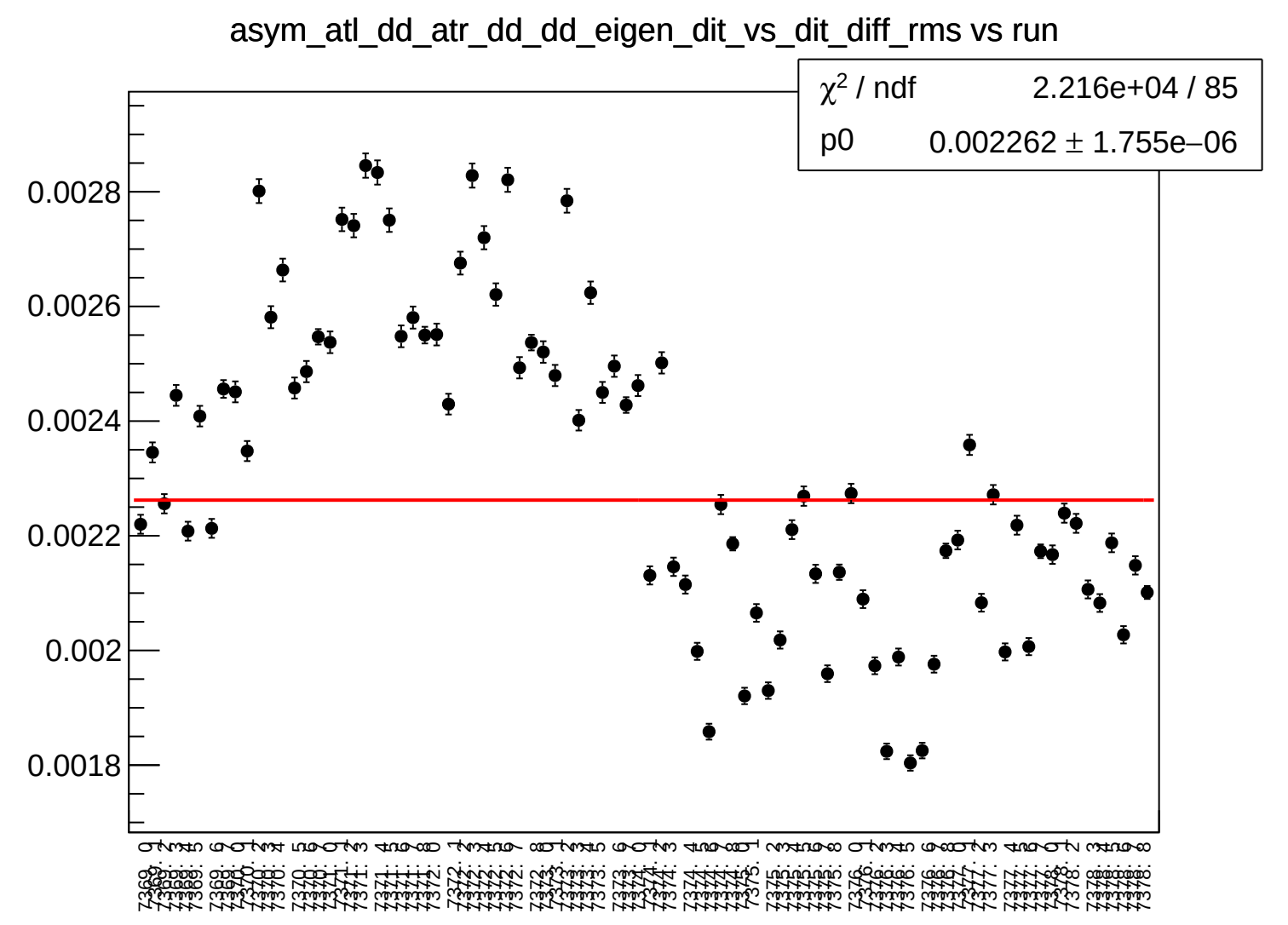

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.304e+04 / 85
p0 366.2 ± 0.285
500
450
400
350
300

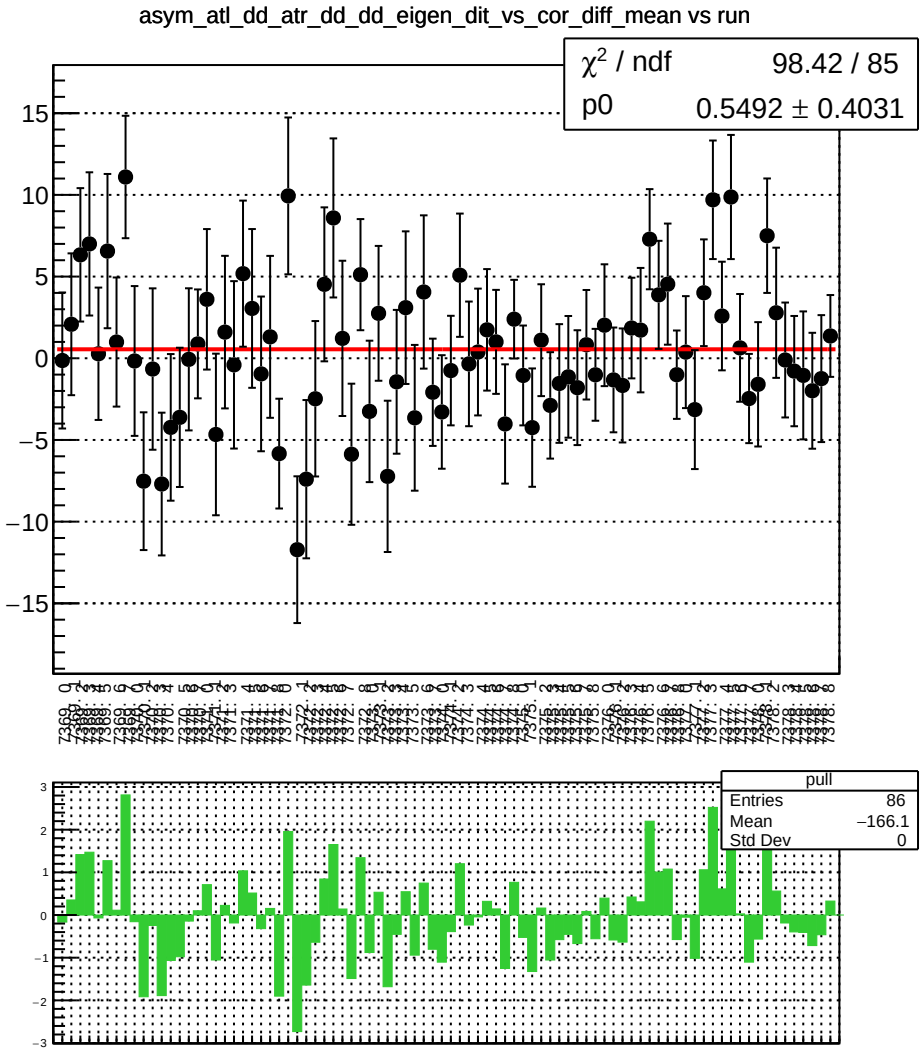

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.42 / 85
p0 0.5492 ± 0.4031
pull
Entries 86
Mean −166.1
Std Dev 0
pull1D
Entries 86
Mean −0.007293
Std Dev 1.07

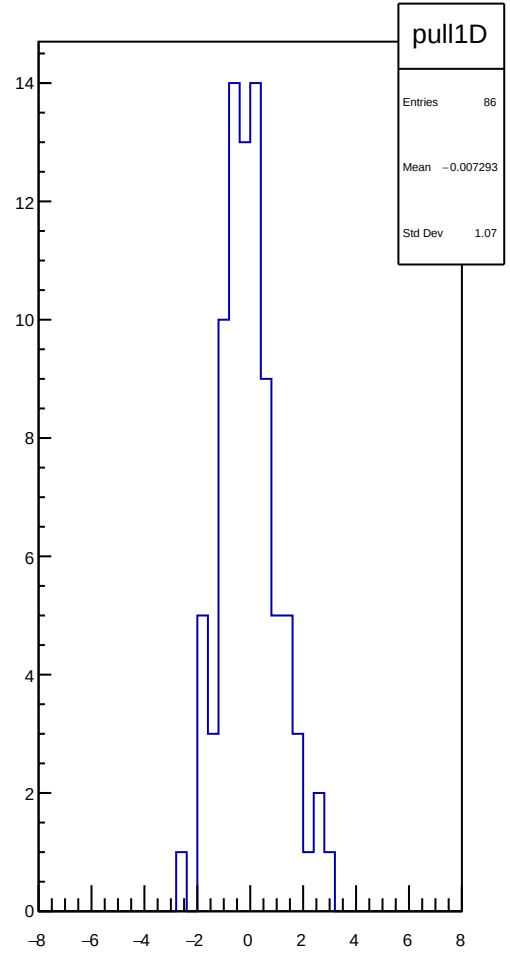

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.304e+04 / 85
p0 366.2 ± 0.285
500
450
400
350
300

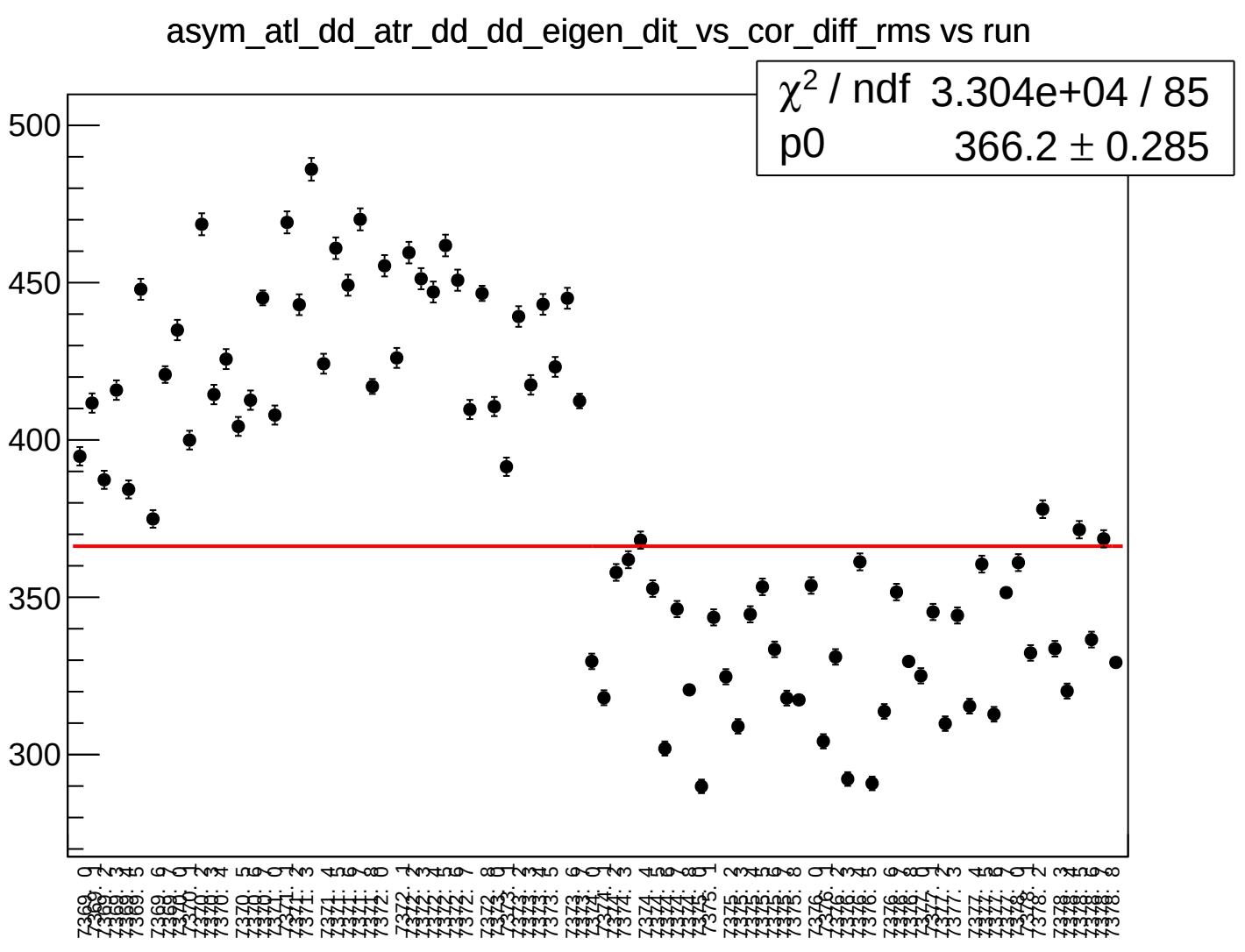

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 85
p0 −3.387e−06 ± 2.482e−06
pull
Entries 86
Mean −51.2
Std Dev 0

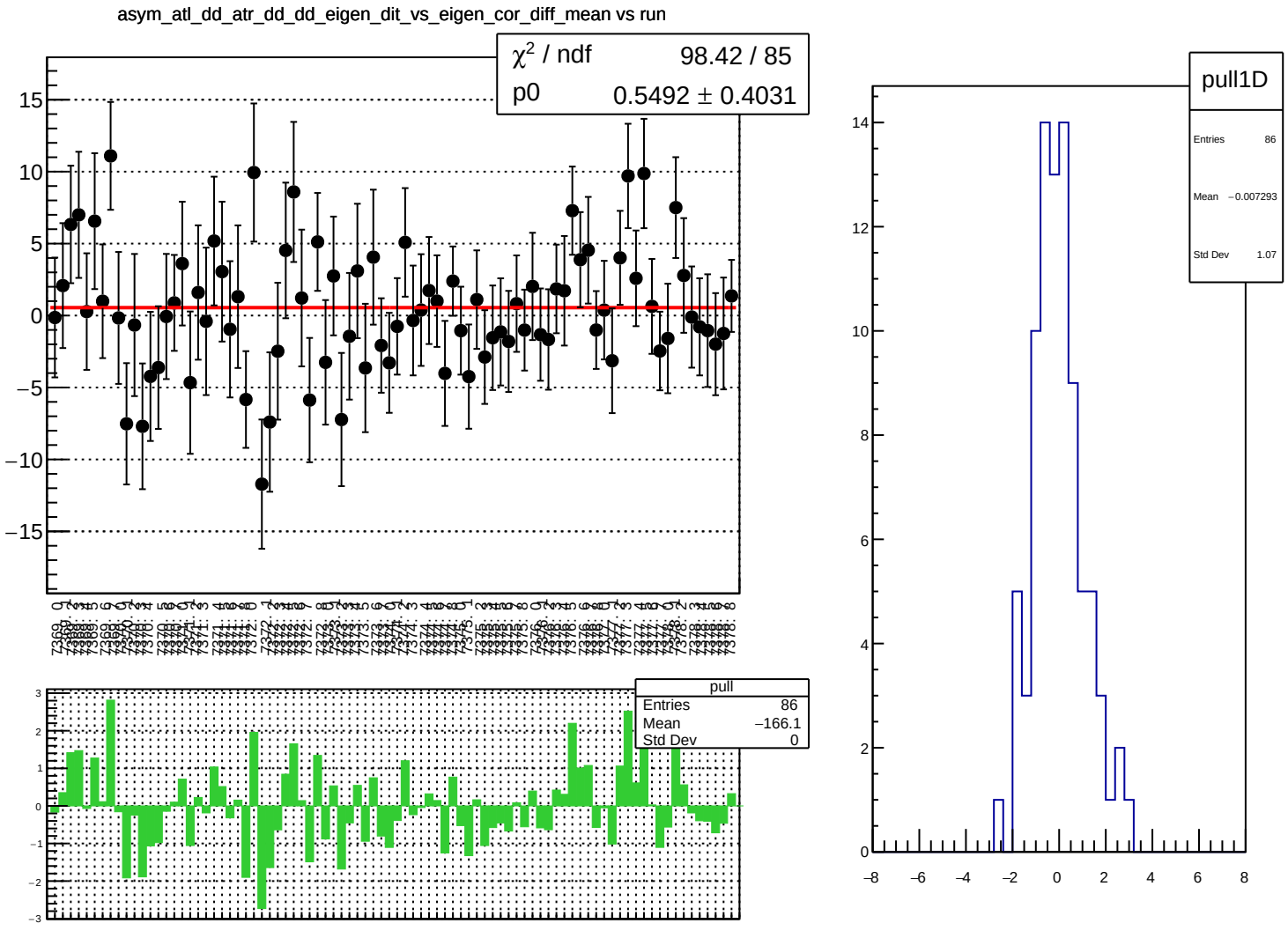

pull1D
Entries 86
Mean 0.02119
Std Dev 1.096

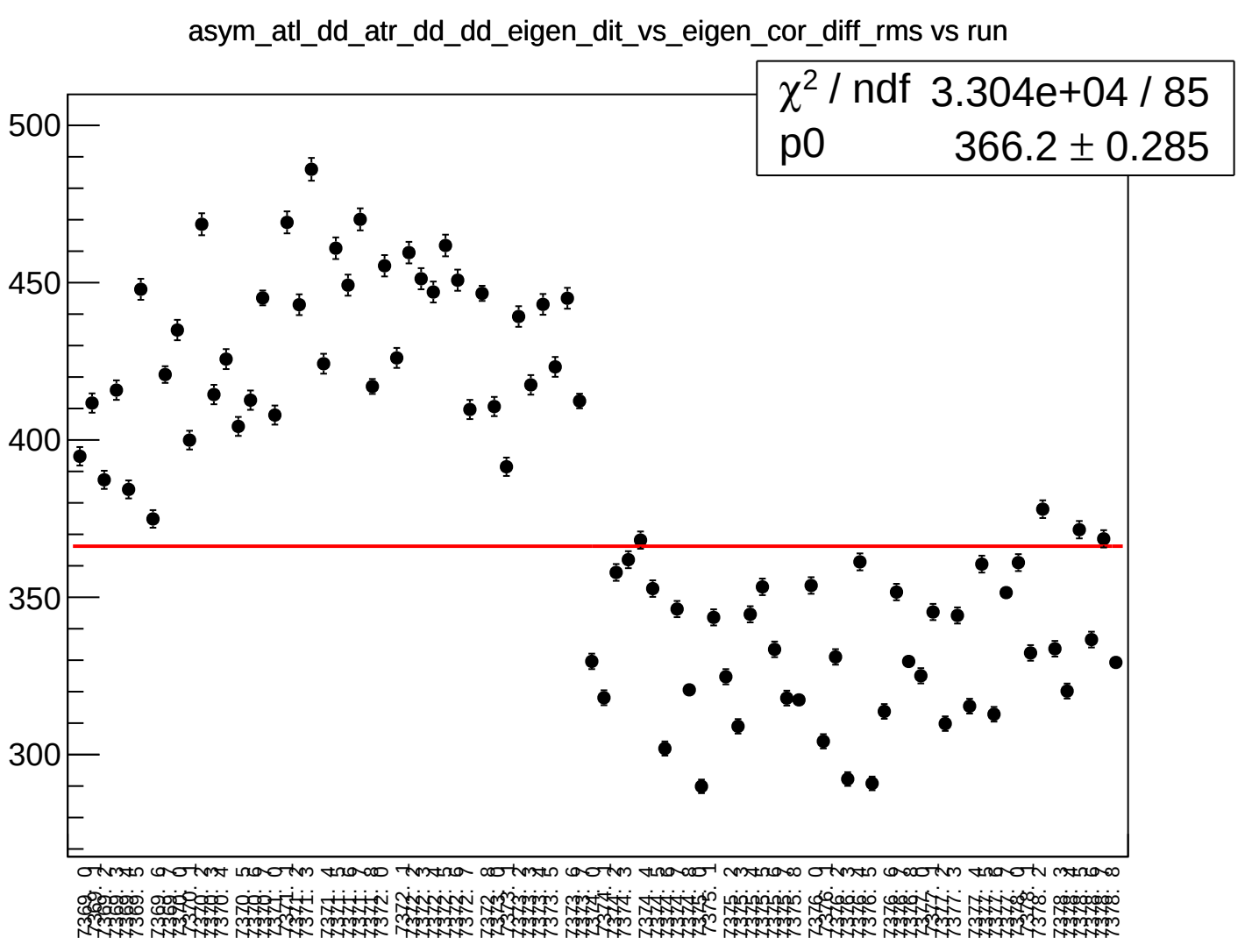

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.216e+04 / 85
p0 0.002262 ± 1.755e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

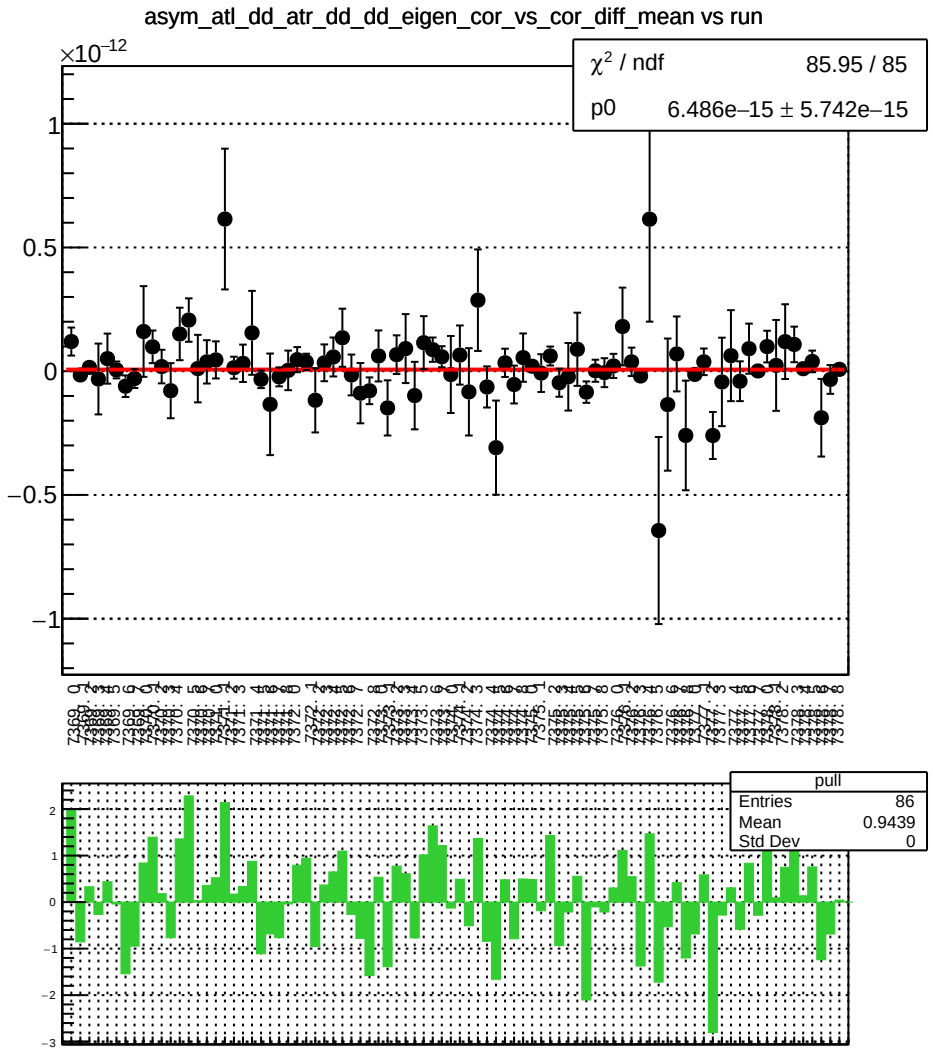

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.42 / 85
p0 0.5492 ± 0.4031
pull
Entries 86
Mean −166.1
Std Dev 0

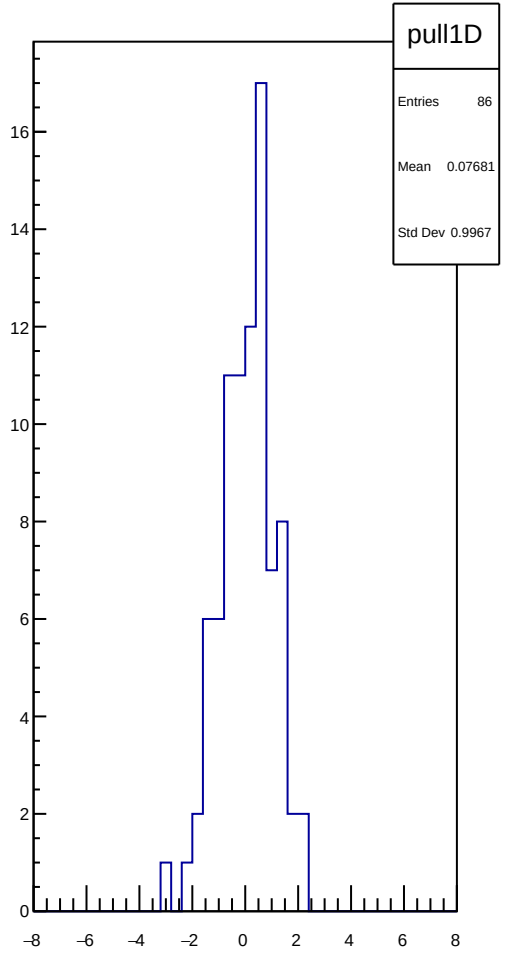

pull1D
Entries 86
Mean −0.007293
Std Dev 1.07

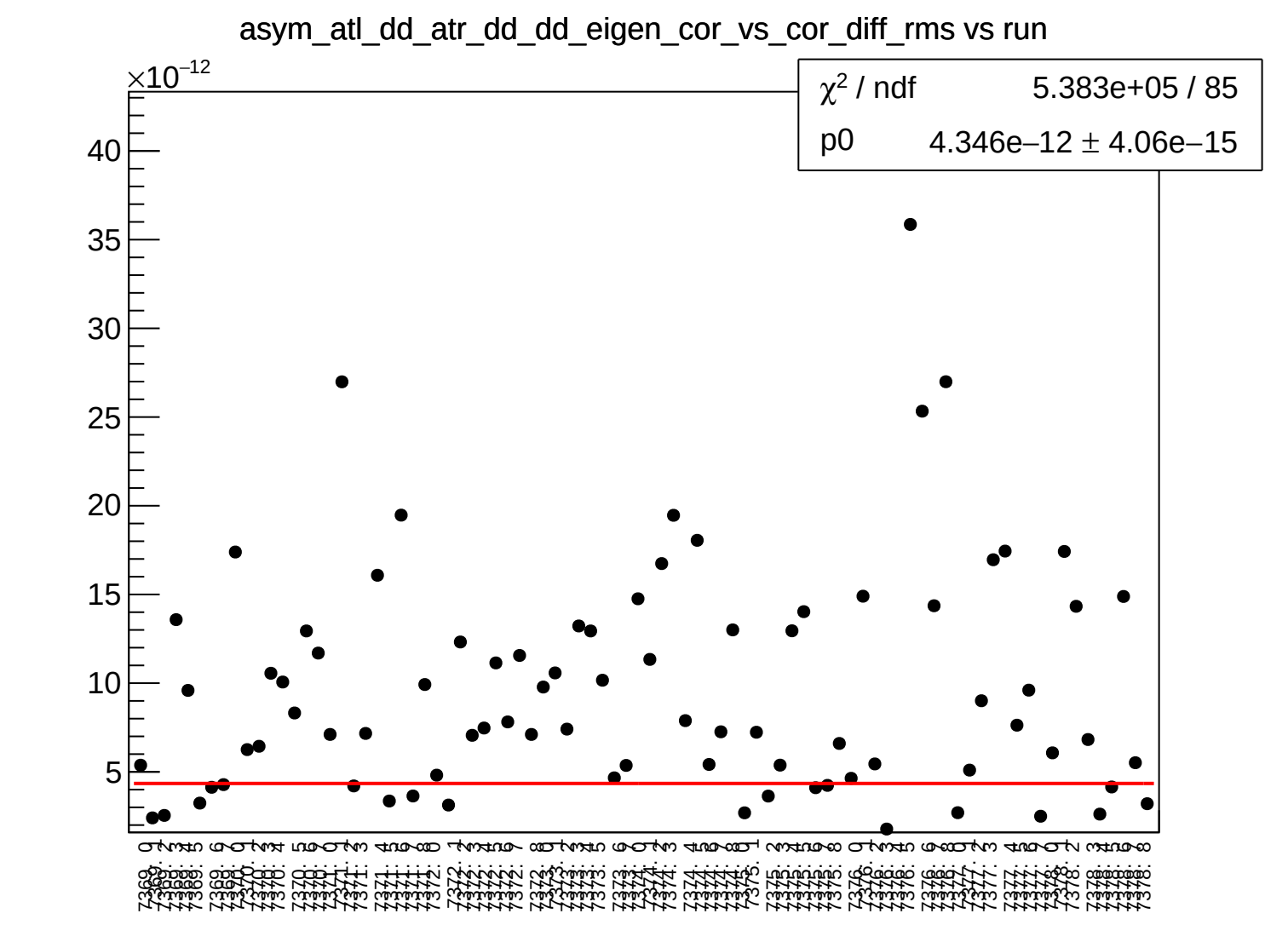

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.304e+04 / 85
p0 366.2 ± 0.285
500
450
400
350
300

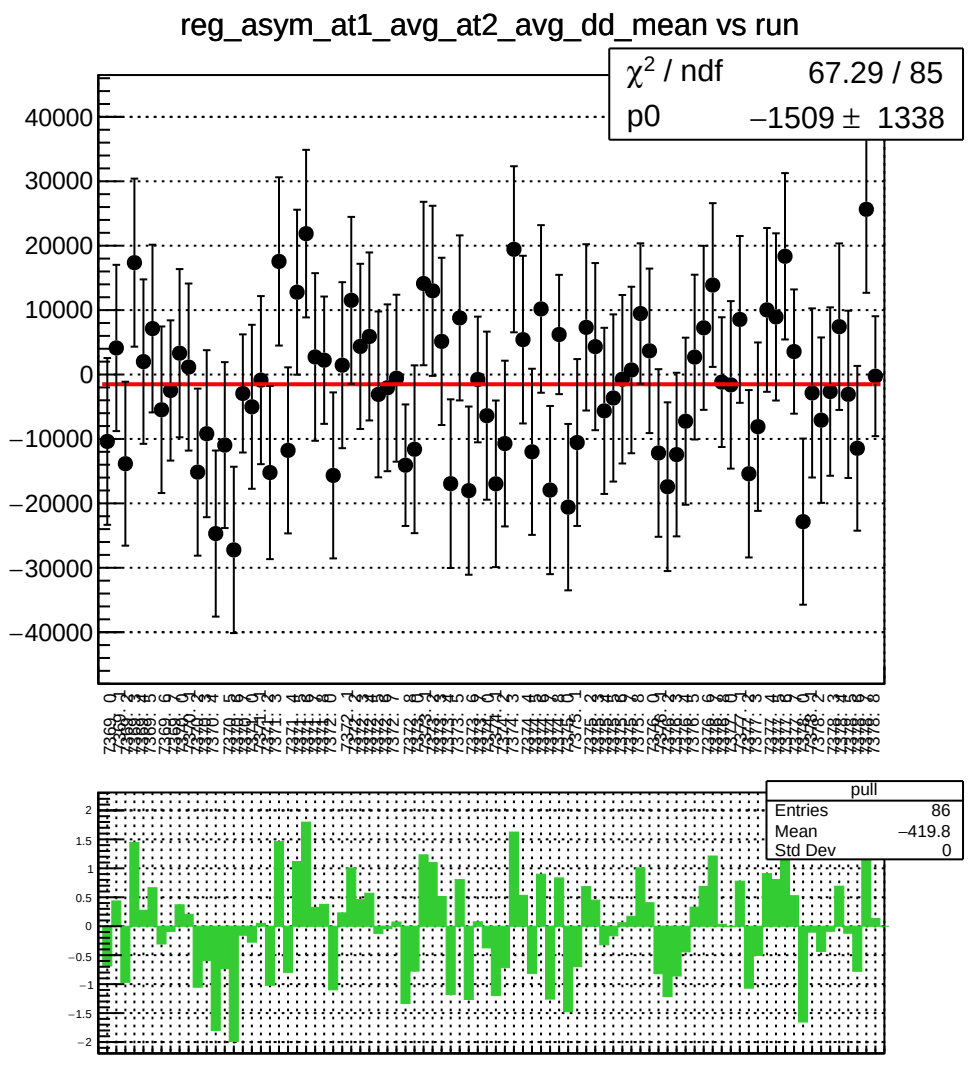

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.42 / 85
p0 0.5492 ± 0.4031
pull
Entries 86
Mean −166.1
Std Dev 0
pull1D
Entries 86
Mean −0.007293
Std Dev 1.07

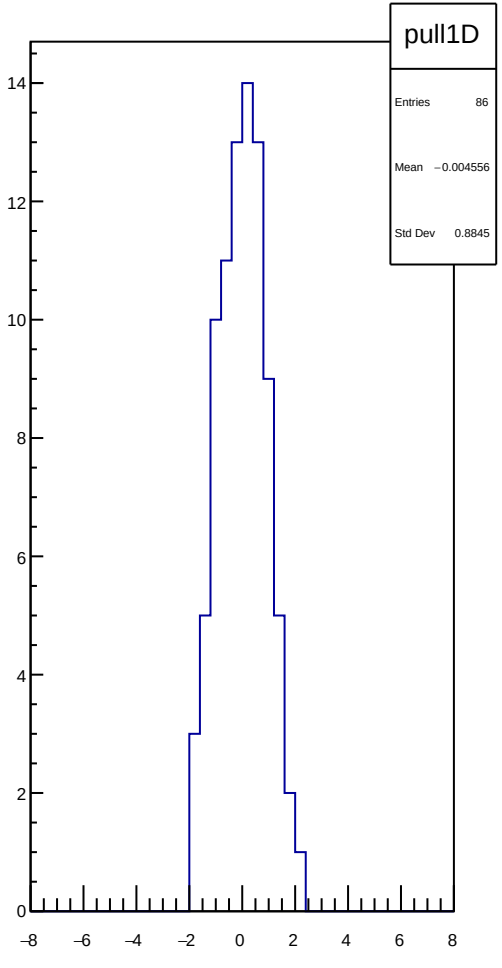

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.304e+04 / 85
p0 366.2 ± 0.285
500
450
400
350
300

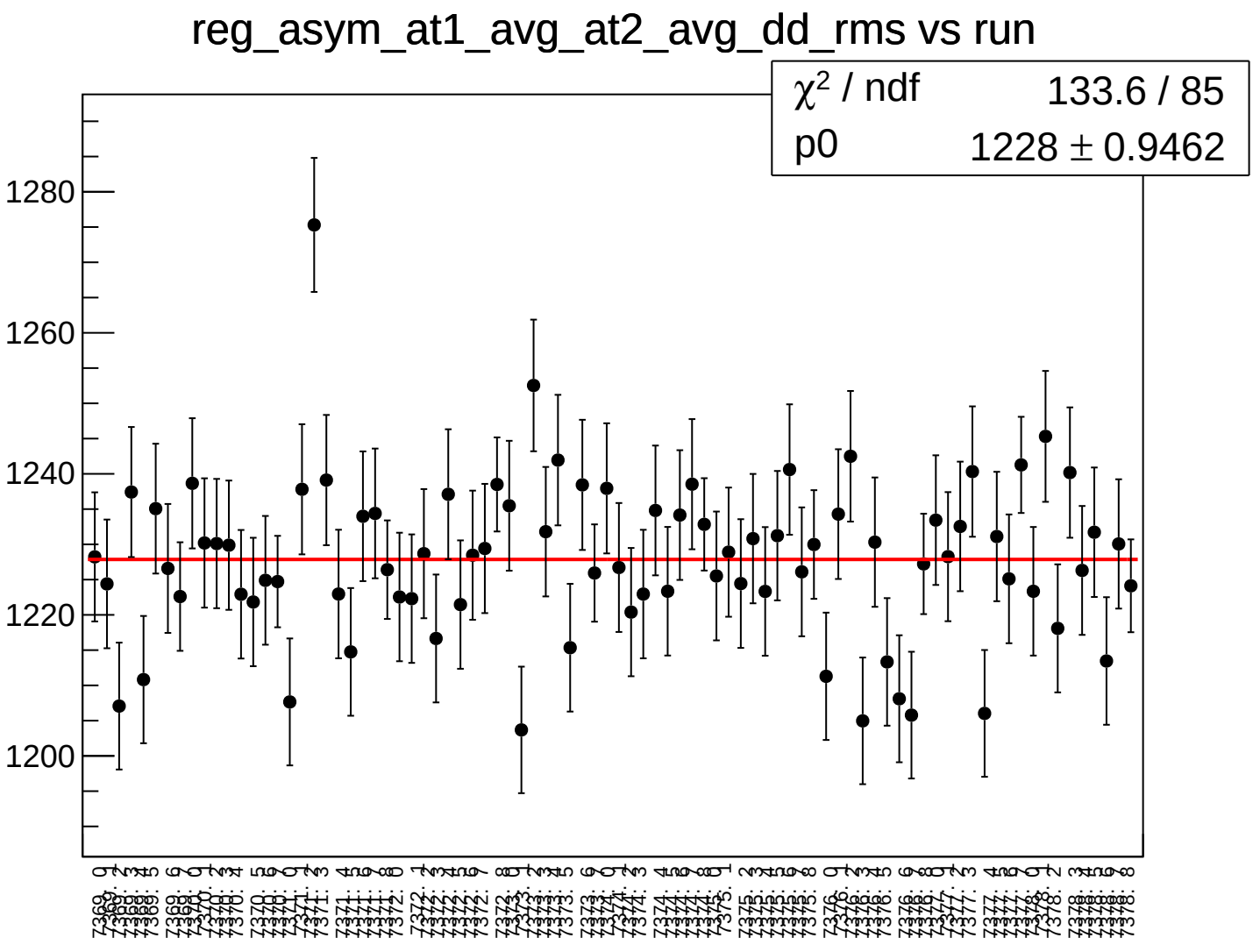

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 85.95 / 85
p0 6.486e−15 ± 5.742e−15
pull
Entries 86
Mean 0.9439
Std Dev 0

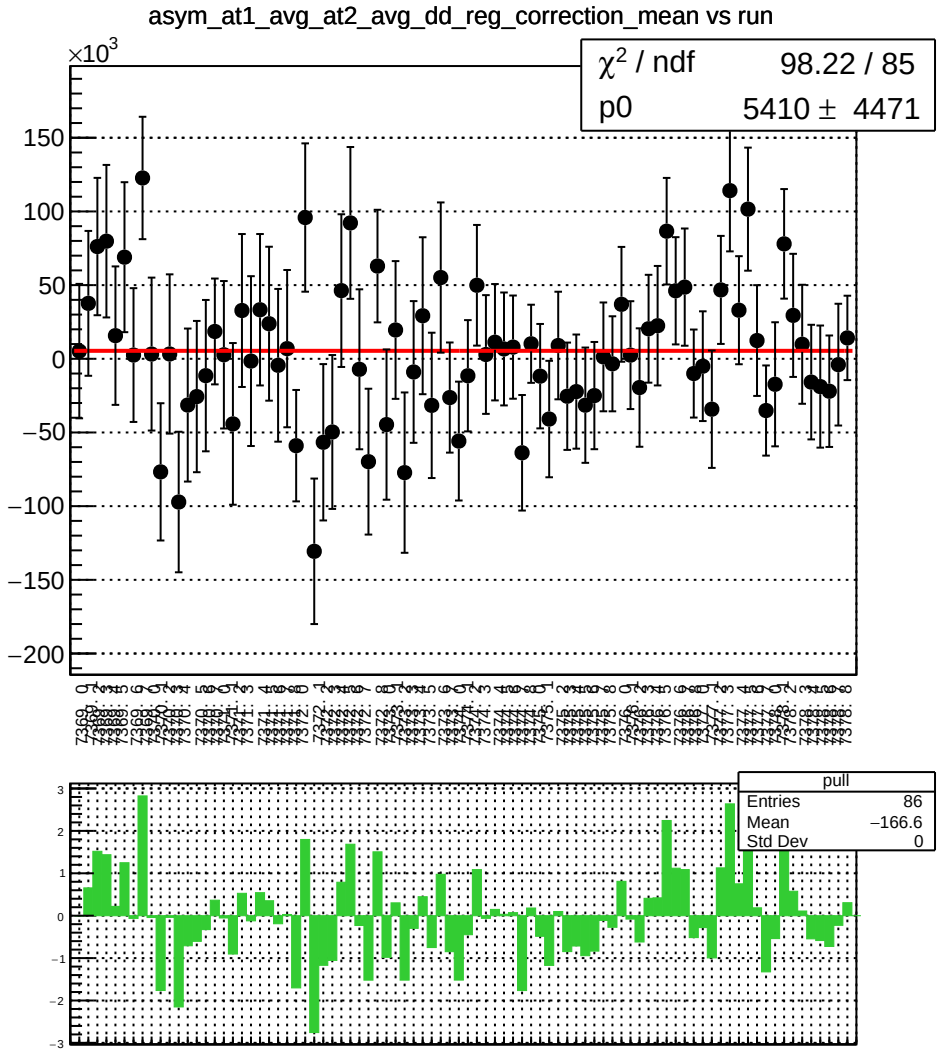

pull1D
Entries 86
Mean 0.07681
Std Dev 0.9967

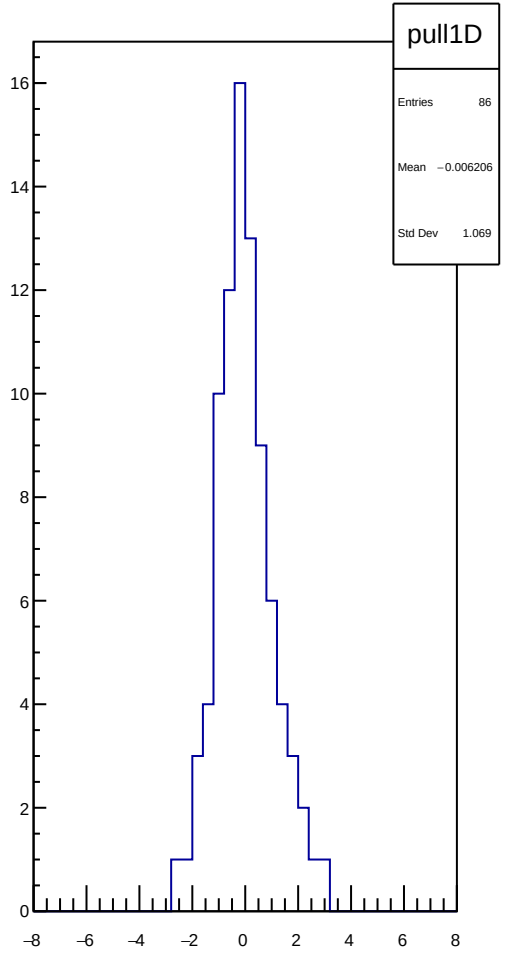

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.383e+05 / 85
p0 4.346e−12 ± 4.06e−15
40
35
30
25
20
15
10
5

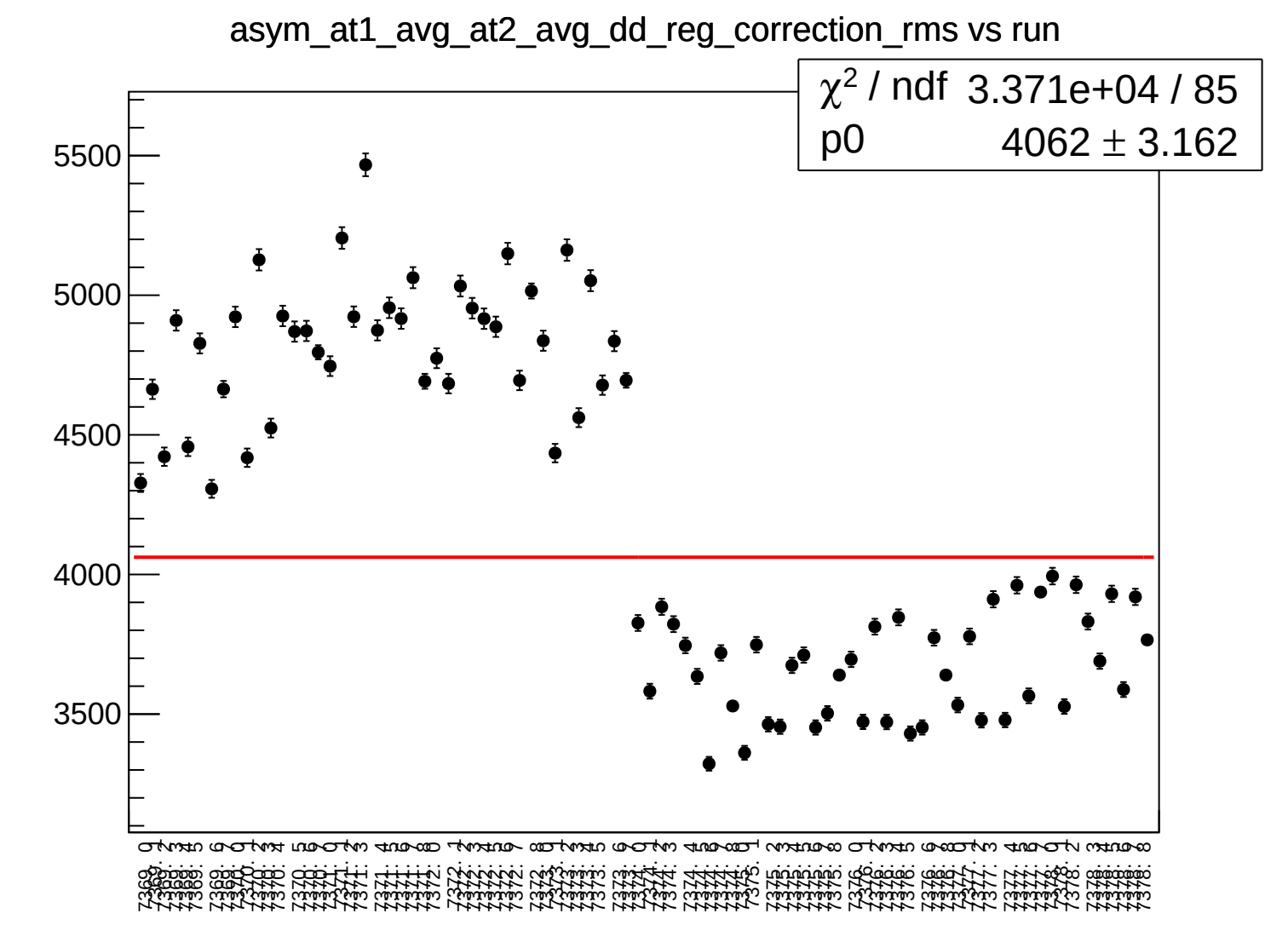

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.29 / 85
p0 −1509 ± 1338
pull
Entries 86
Mean −419.8
Std Dev 0

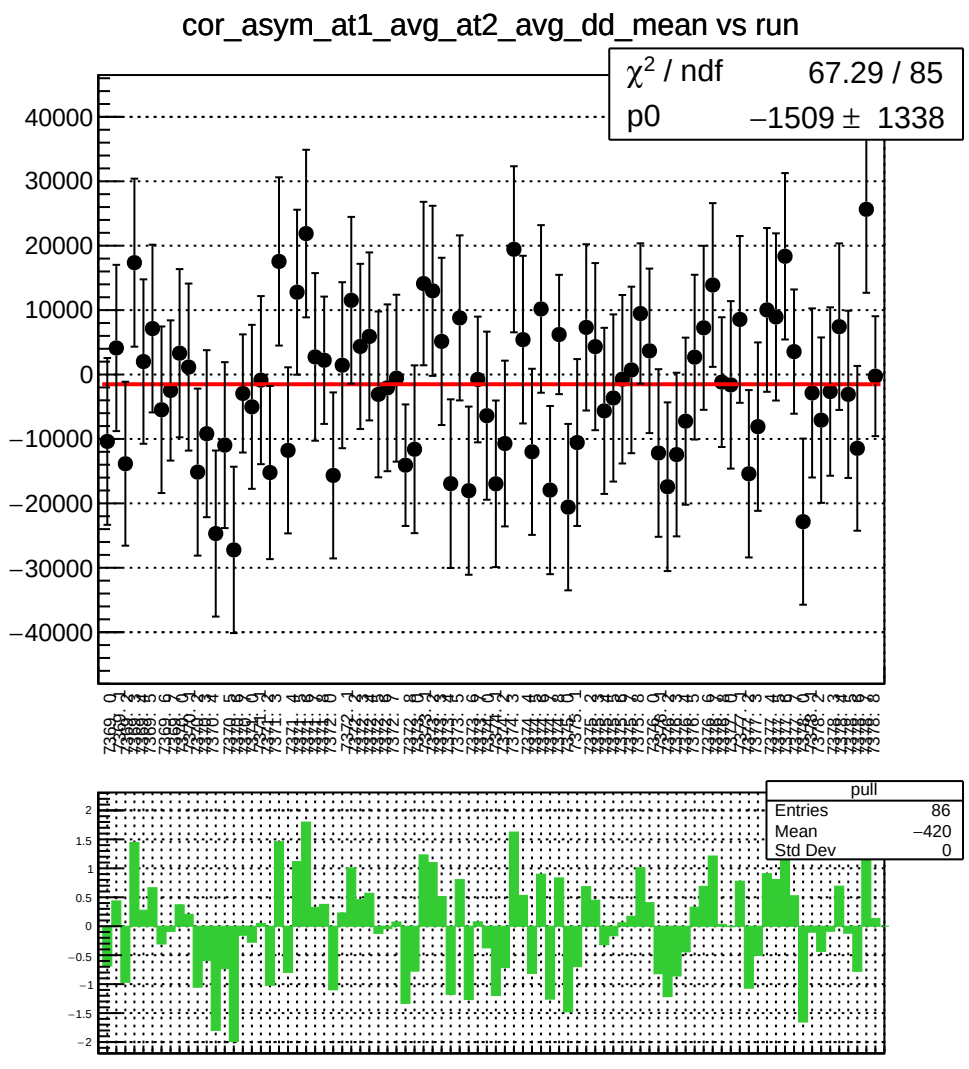

pull1D
Entries 86
Mean −0.004556
Std Dev 0.8845

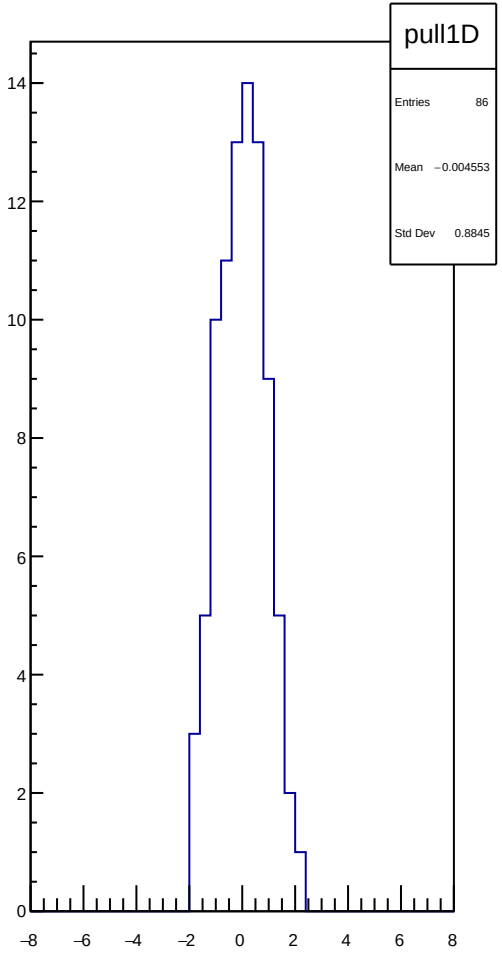

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 133.6 / 85
p0 1228 ± 0.9462
1280
1260
1240
1220
1200

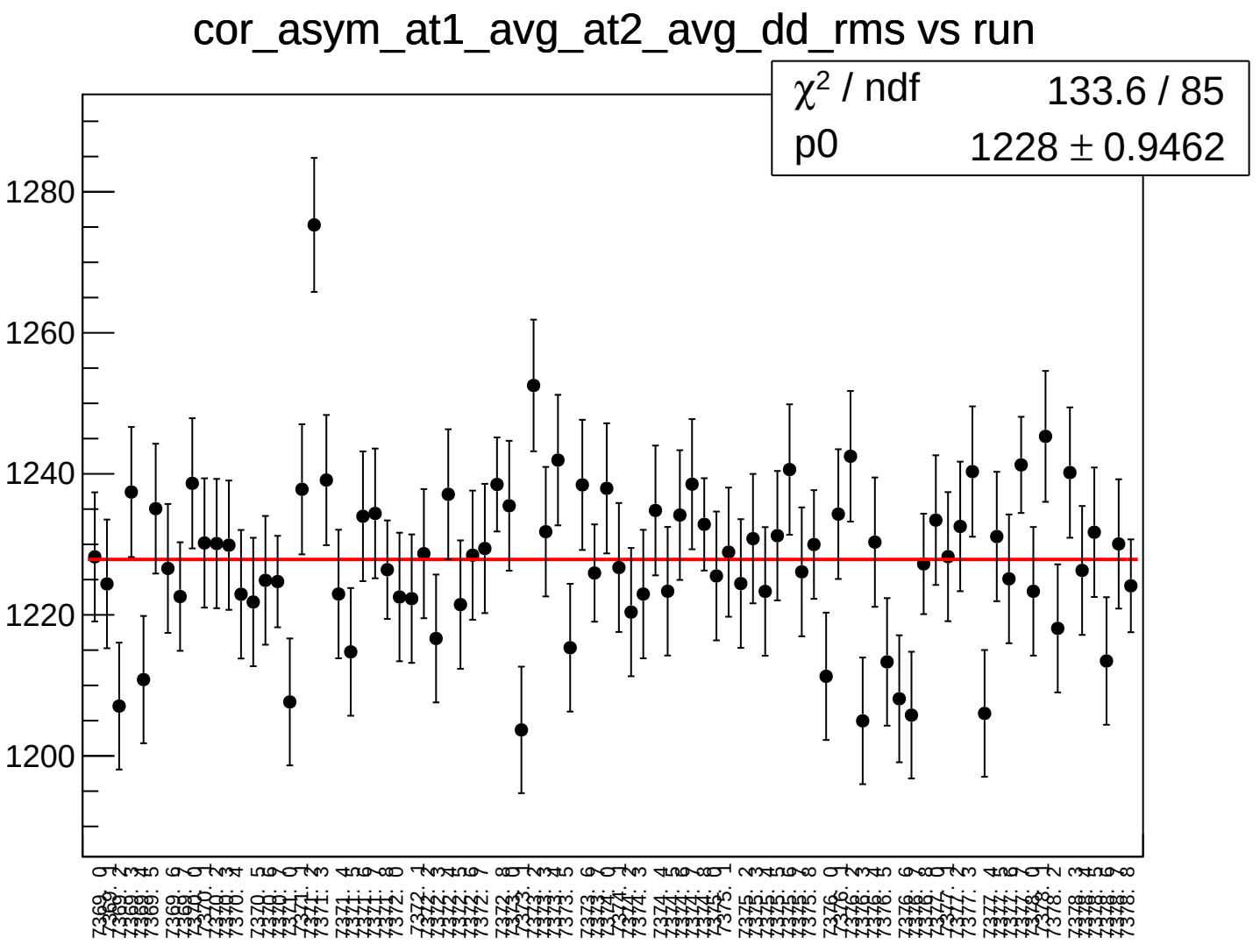

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
χ² / ndf 98.22 / 85
p0 5410 ± 4471
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −166.6
Std Dev 0
3
2
1
0
−1
−2
−3

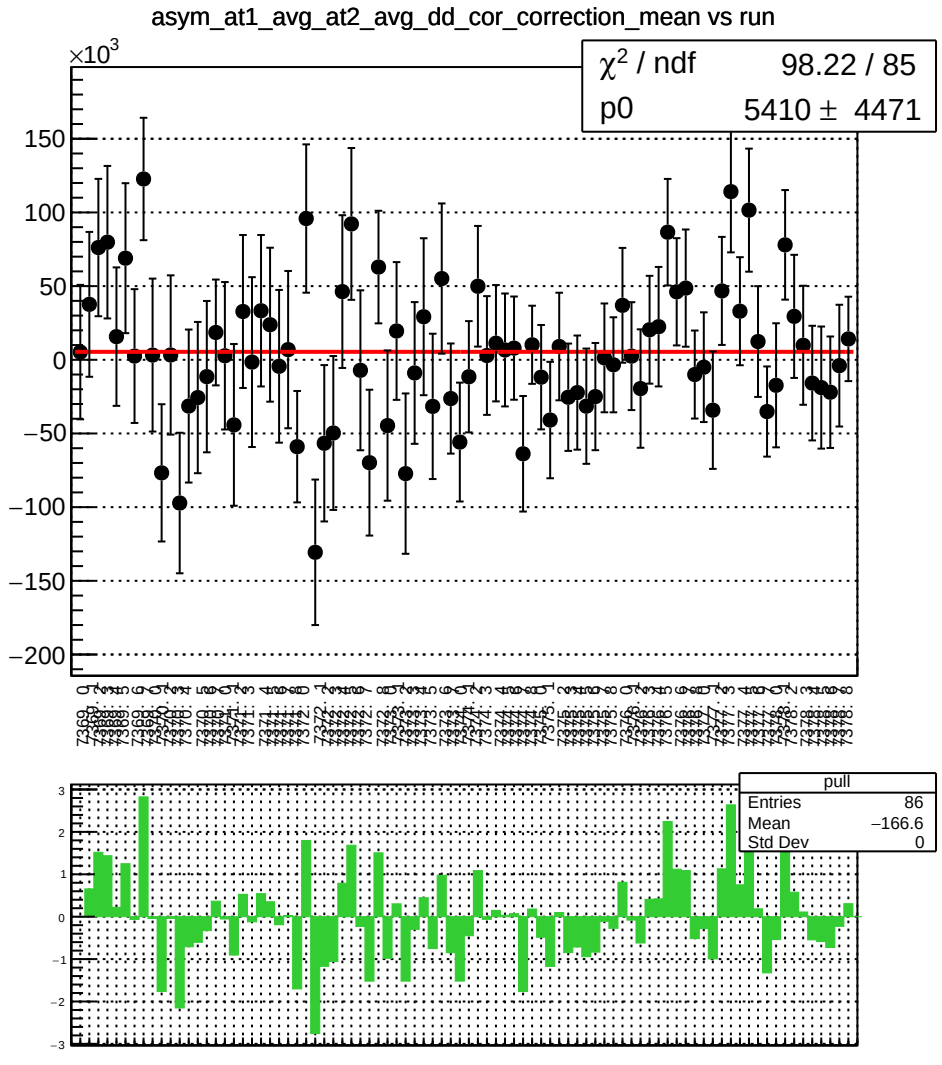

pull1D
Entries 86
Mean −0.006206
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

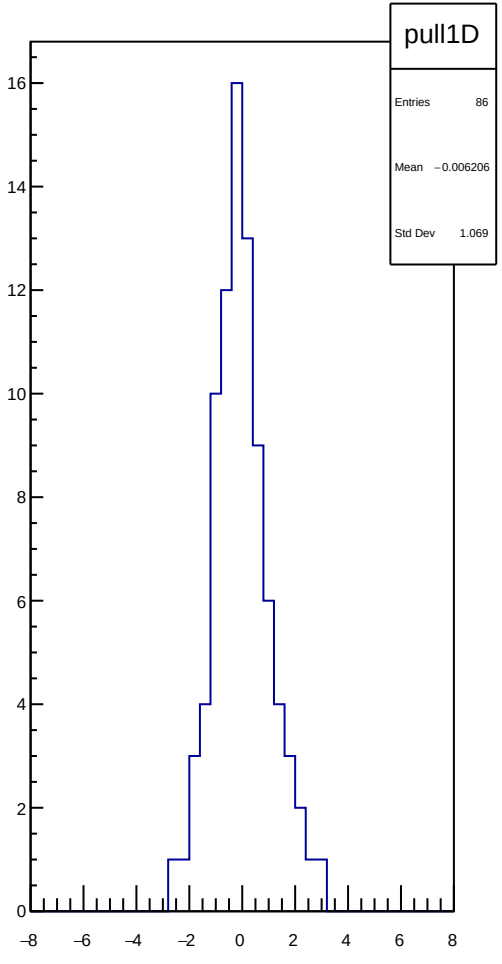

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 3.371e+04 / 85
p0 4062 ± 3.162
5500
5000
4500
4000
3500

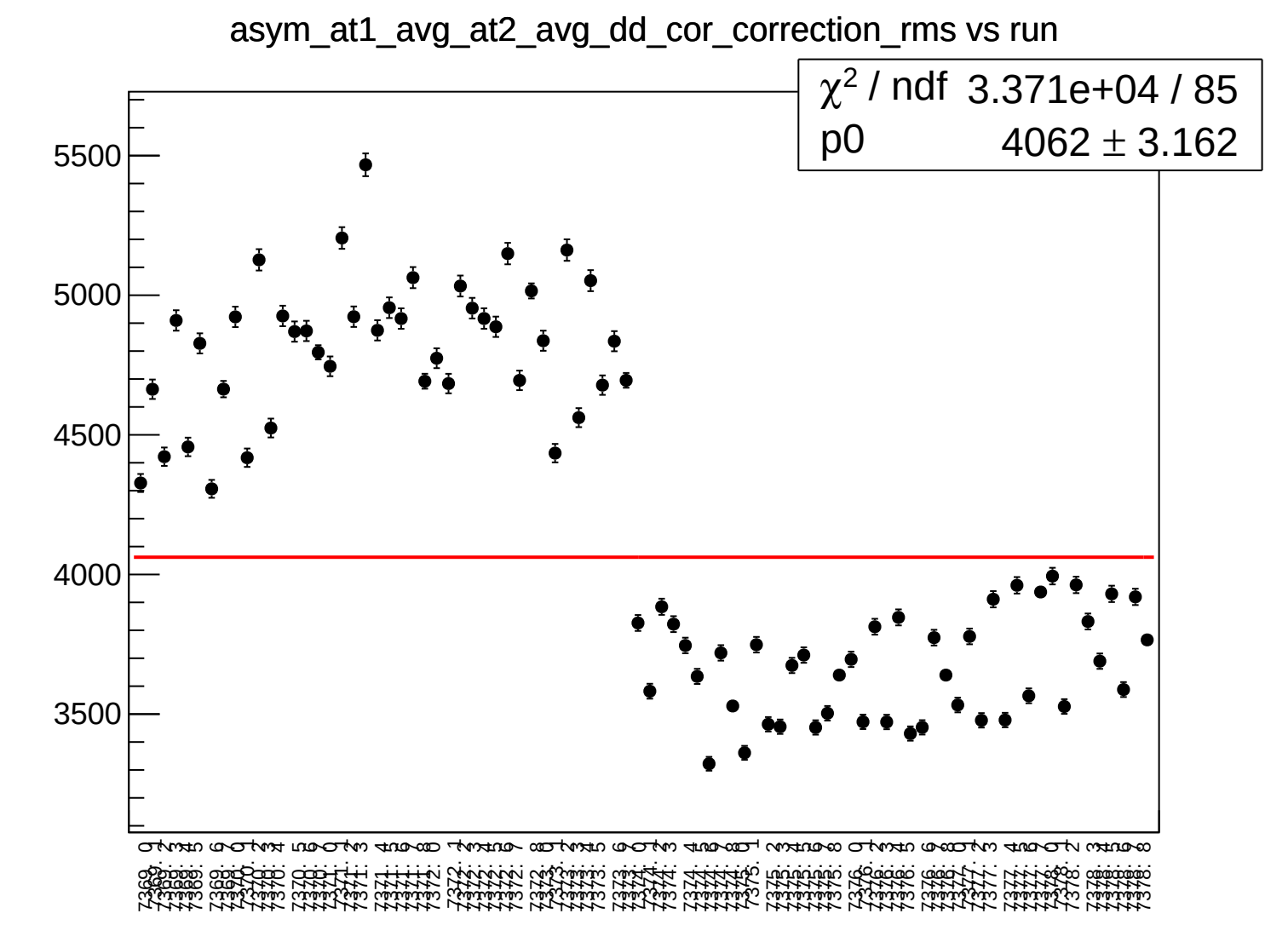

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.29 / 85
p0 −1509 ± 1338
pull
Entries 86
Mean −420
Std Dev 0

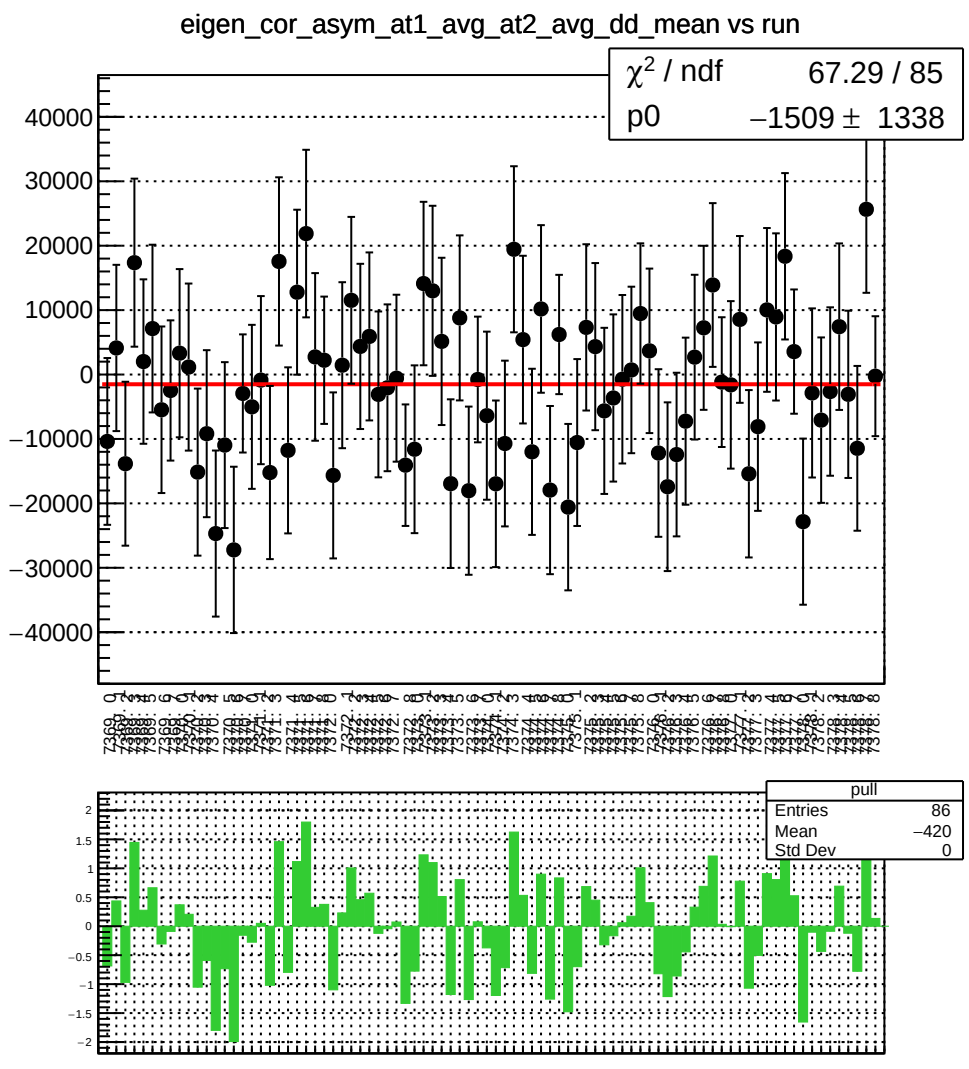

pull1D
Entries 86
Mean −0.004553
Std Dev 0.8845

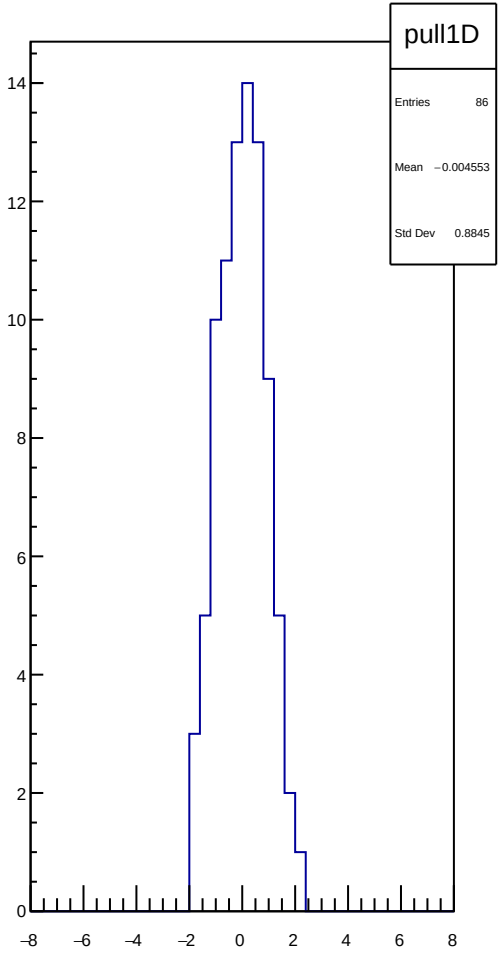

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 133.6 / 85
p0 1228 ± 0.9462
1280
1260
1240
1220
1200

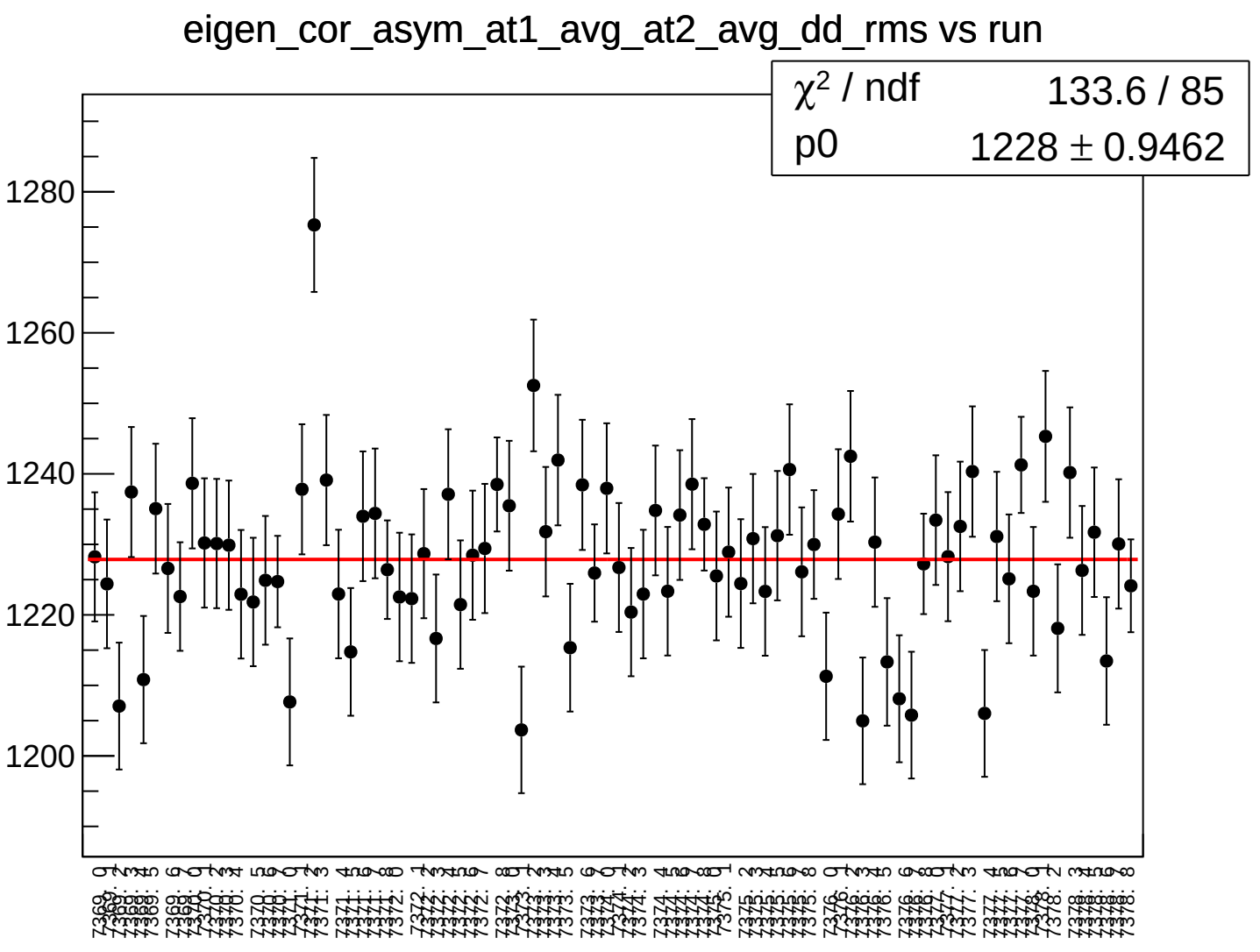

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
χ² / ndf 98.22 / 85
p0 5410 ± 4471
×10³
pull
Entries 86
Mean −166.6
Std Dev 0

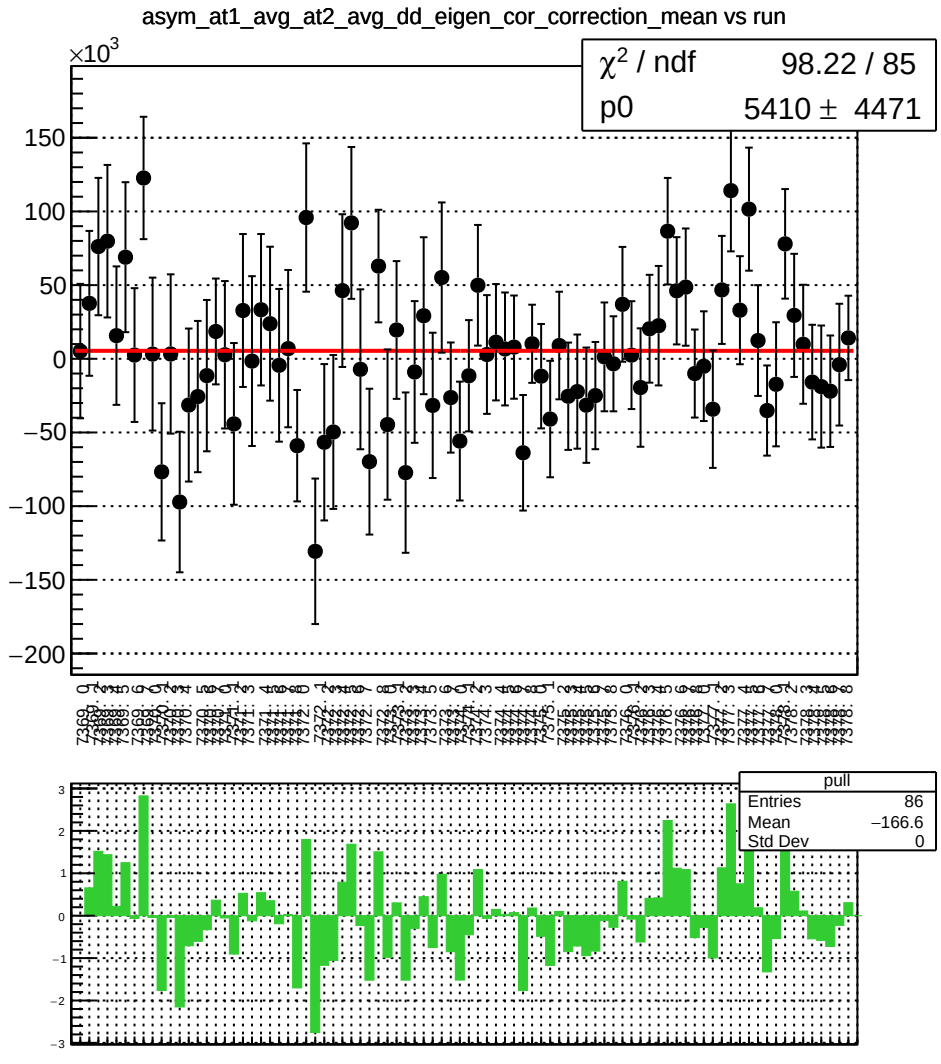

pull1D
Entries 86
Mean −0.006206
Std Dev 1.069

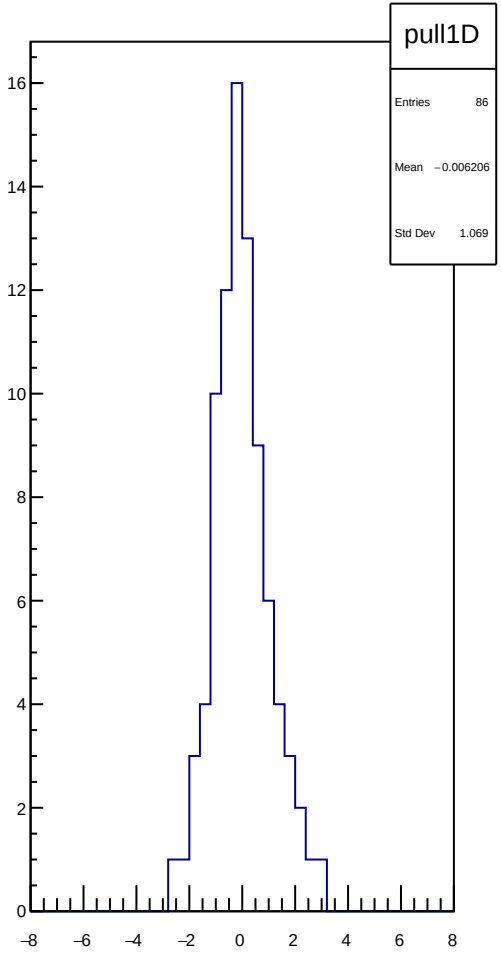

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 3.371e+04 / 85
p0 4062 ± 3.162
5500
5000
4500
4000
3500

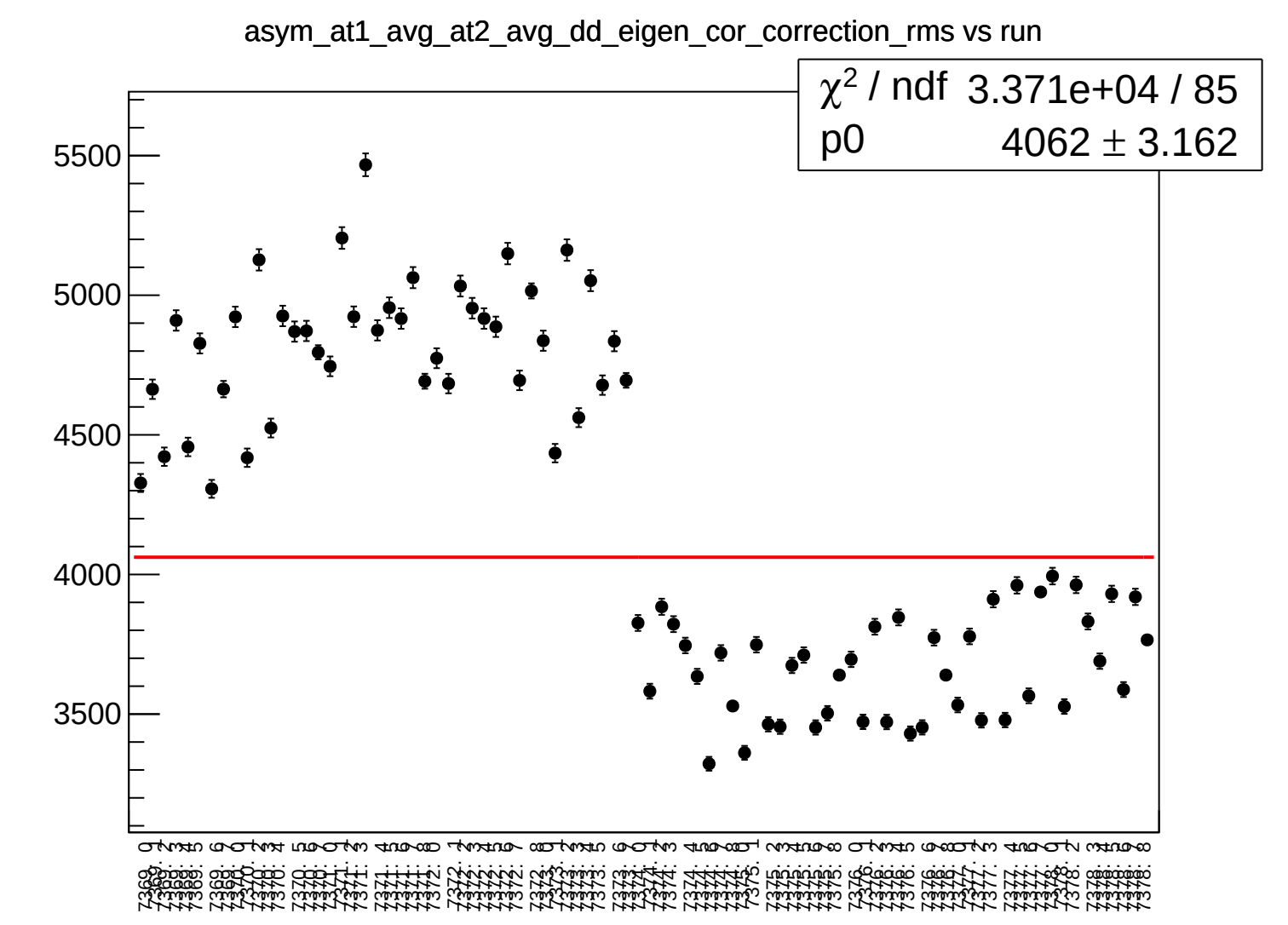

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.29 / 85
p0 −1509 ± 1338
pull
Entries 86
Mean −420
Std Dev 0

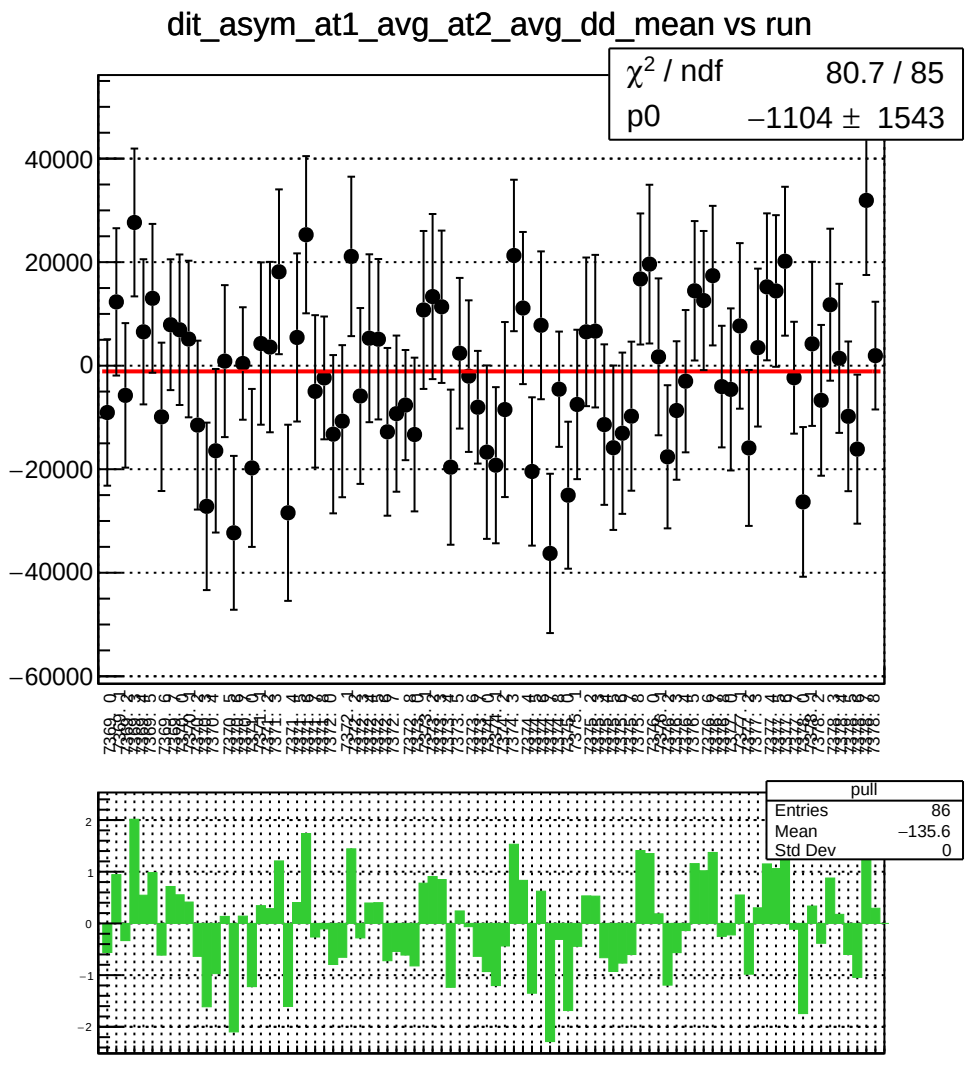

pull1D
Entries 86
Mean −0.004553
Std Dev 0.8845

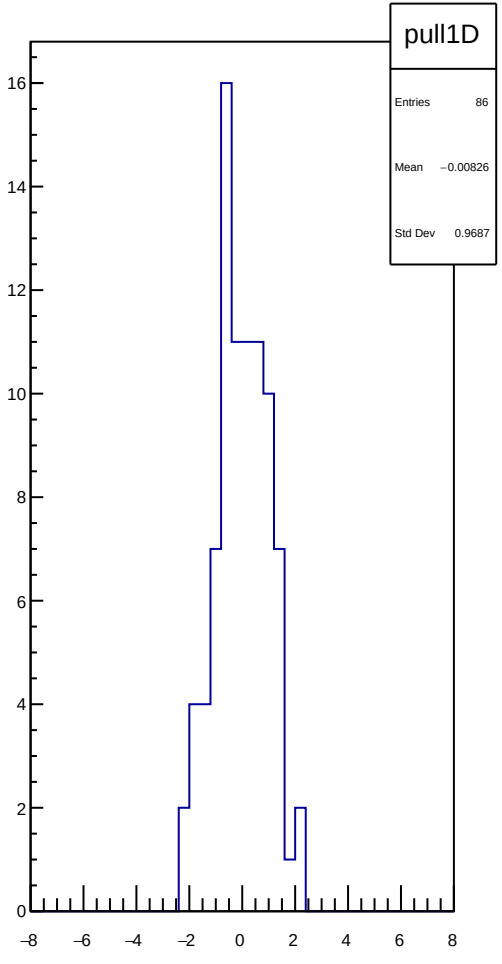

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 133.6 / 85
p0 1228 ± 0.9462
1280
1260
1240
1220
1200

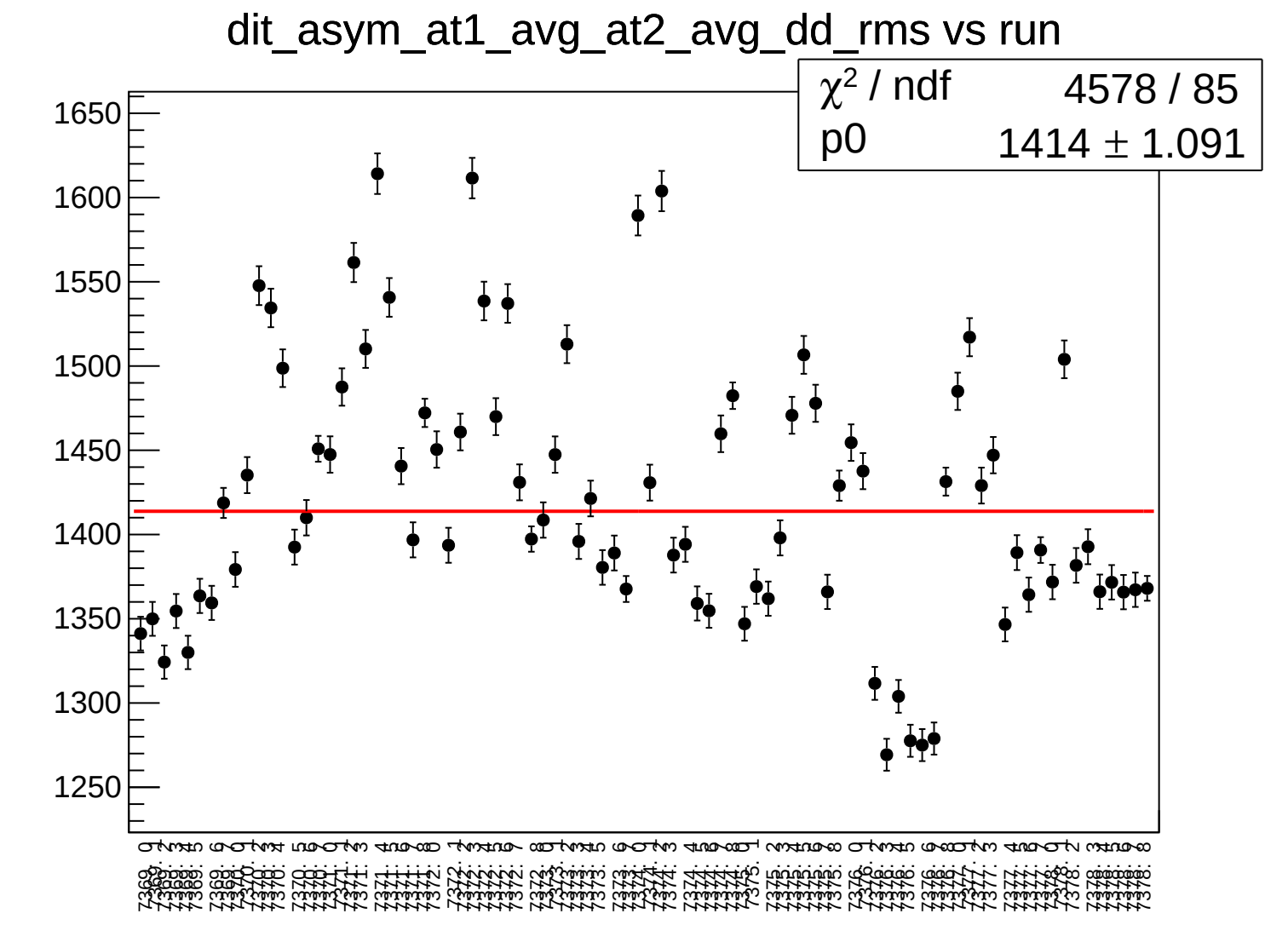

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.22 / 85
p0 5410 ± 4471
×10³
pull
Entries 86
Mean −166.6
Std Dev 0

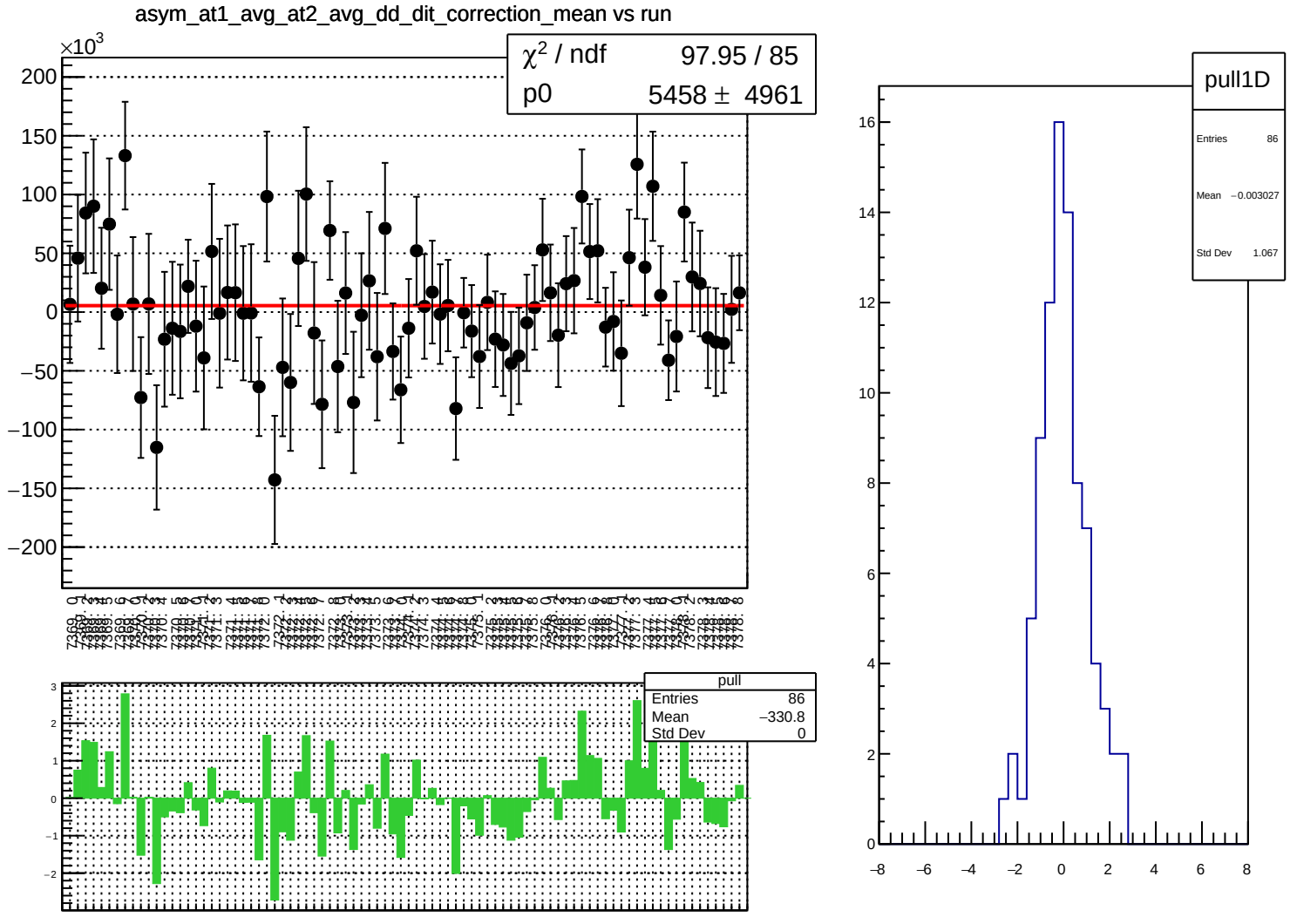

pull1D
Entries 86
Mean −0.006206
Std Dev 1.069

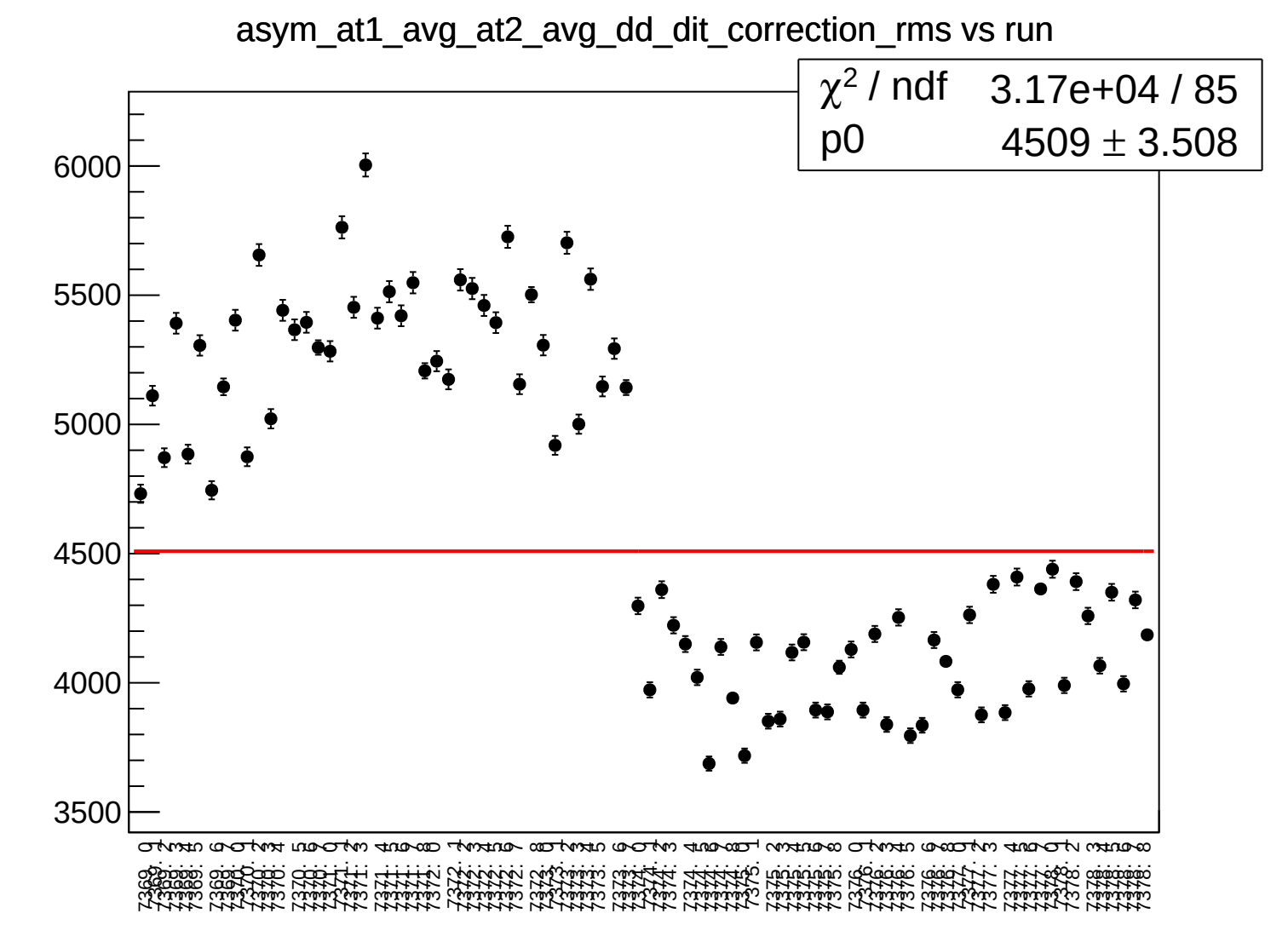

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.371e+04 / 85
p0 4062 ± 3.162
5500
5000
4500
4000
3500

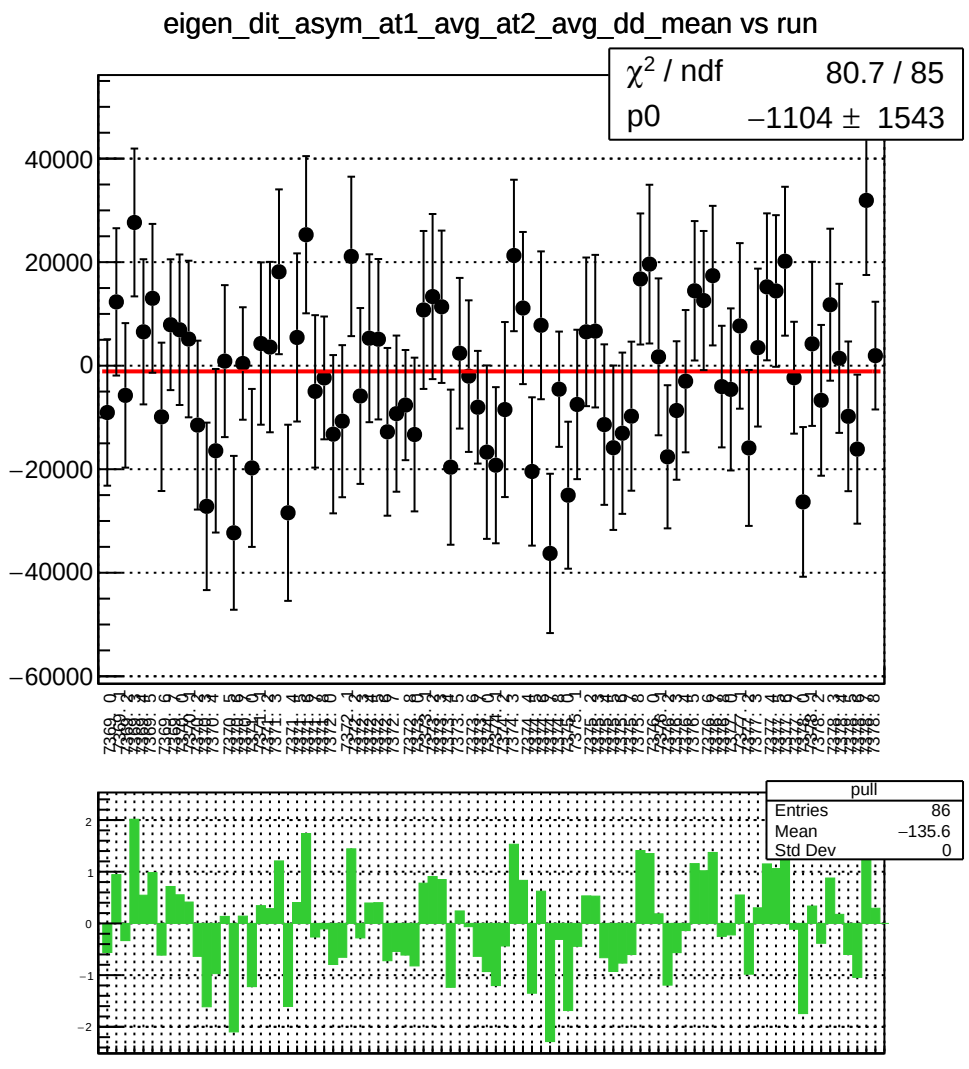

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 80.7 / 85
p0 −1104 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −135.6
Std Dev 0
2
1
0
−1
−2

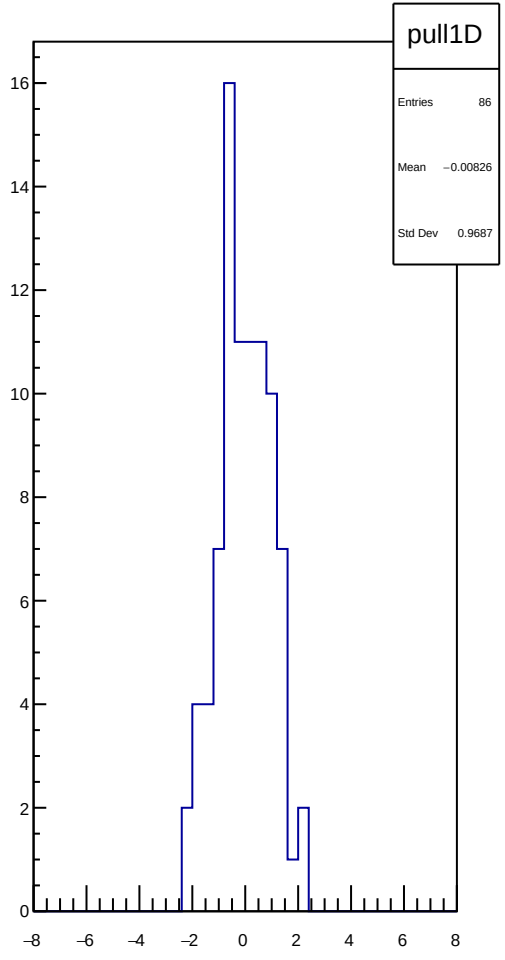

pull1D
Entries 86
Mean −0.00826
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

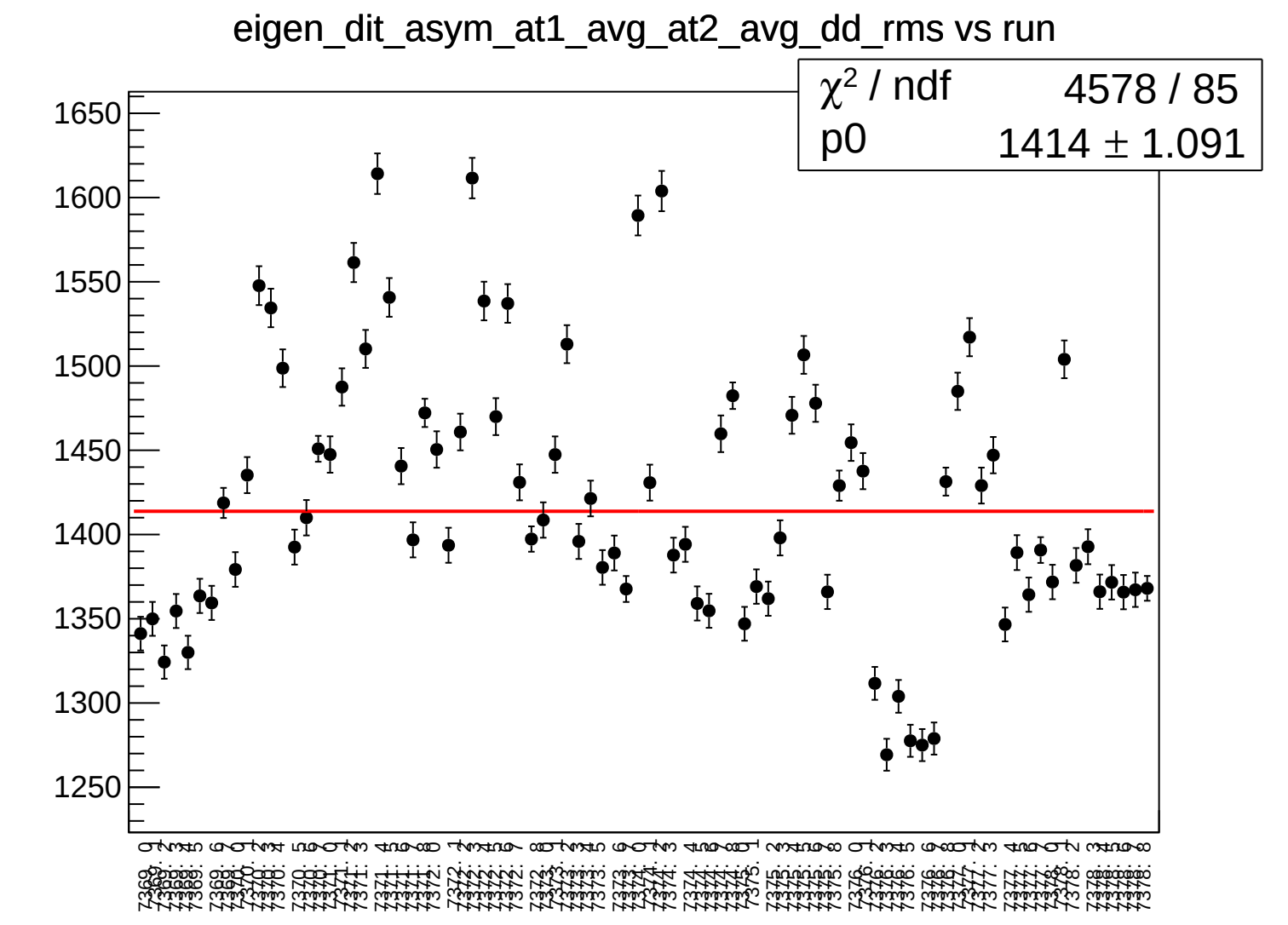

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 4578 / 85
p0 1414 ± 1.091
1650
1600
1550
1500
1450
1400
1350
1300
1250

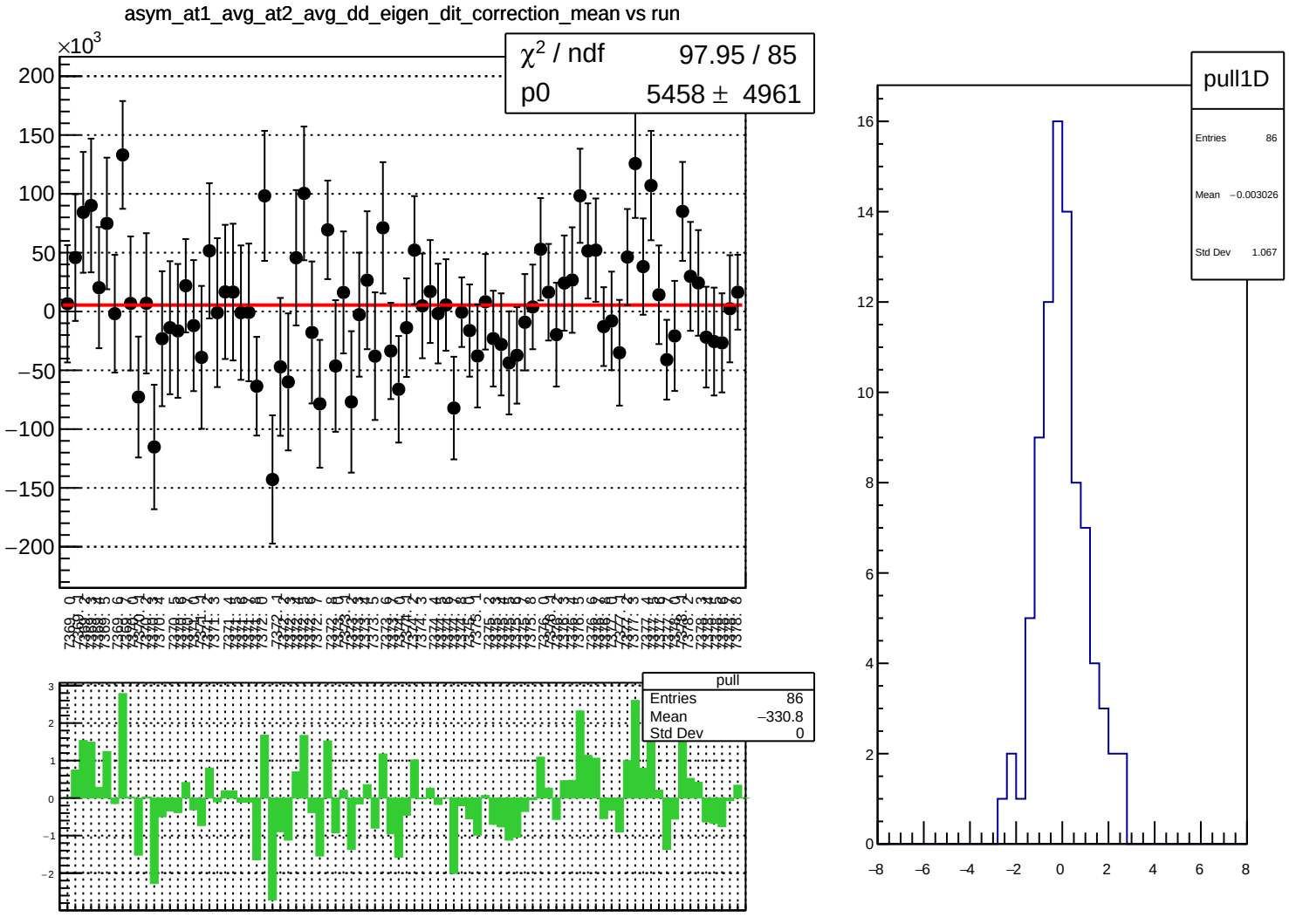

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.95 / 85
p0 5458 ± 4961
pull
Entries 86
Mean −330.8
Std Dev 0
pull1D
Entries 86
Mean −0.003027
Std Dev 1.067

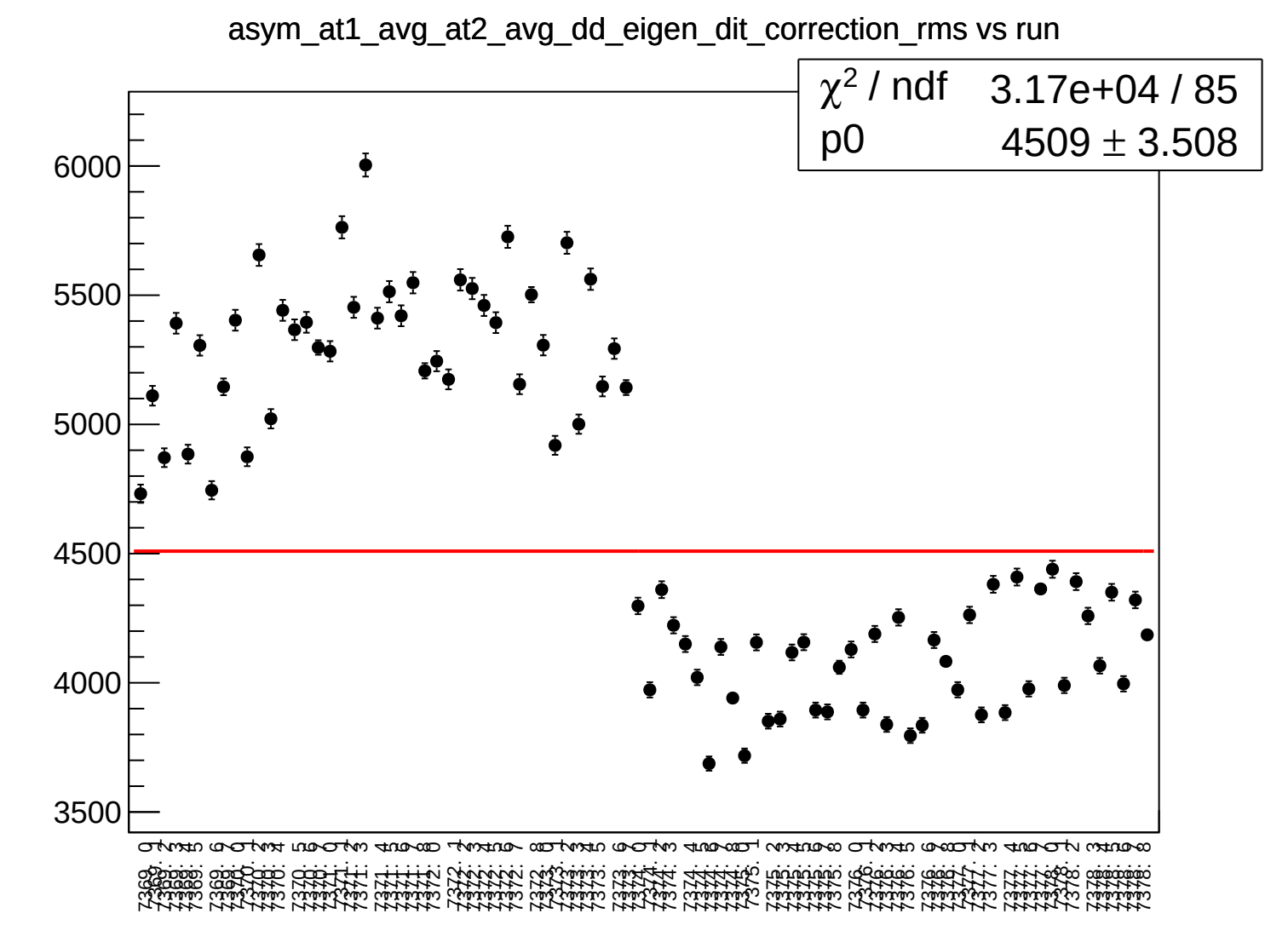

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3.17e+04 / 85
p0 4509 ± 3.508
6000
5500
5000
4500
4000
3500

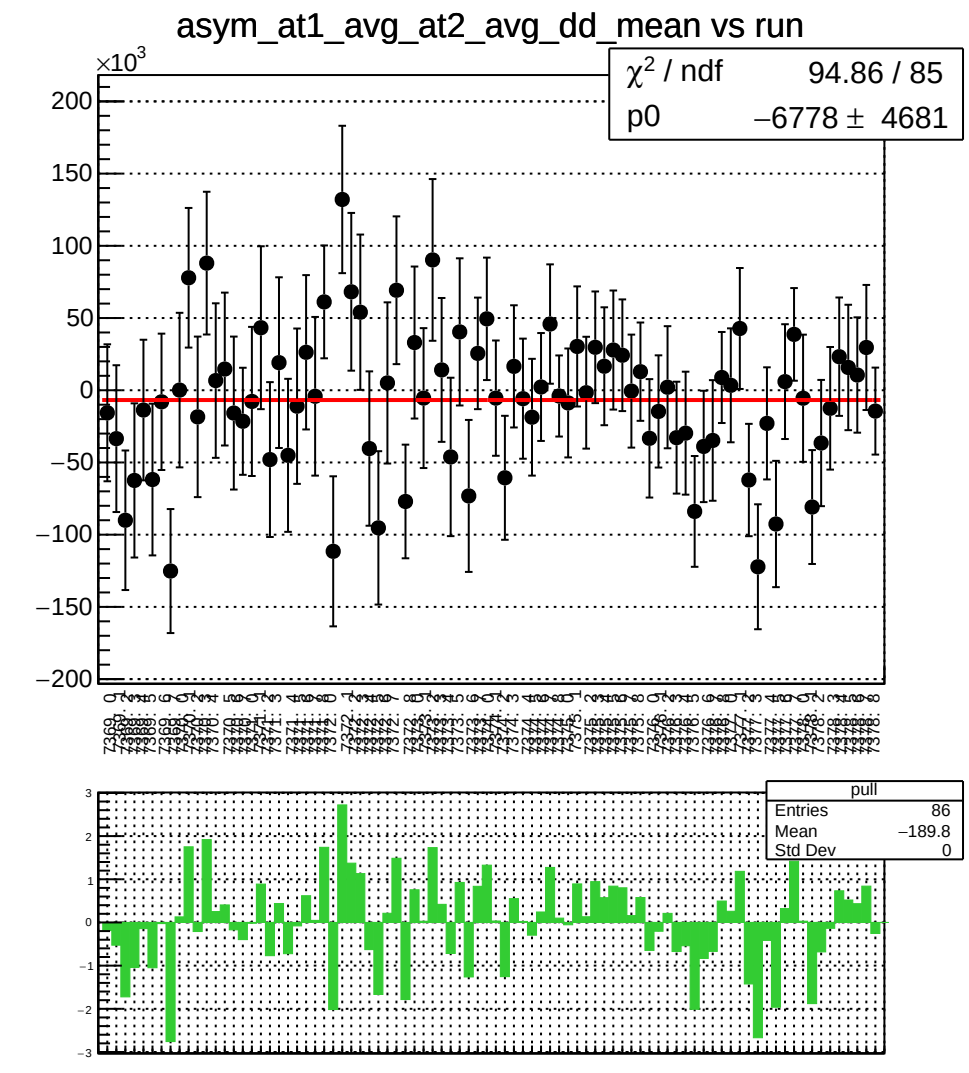

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 80.7 / 85
p0 −1104 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −135.6
Std Dev 0
2
1
0
−1
−2

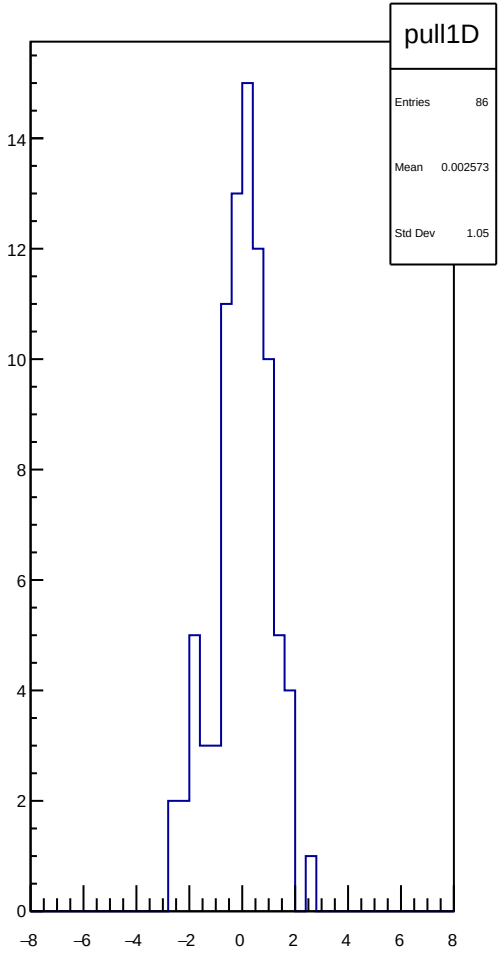

pull1D
Entries 86
Mean −0.00826
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

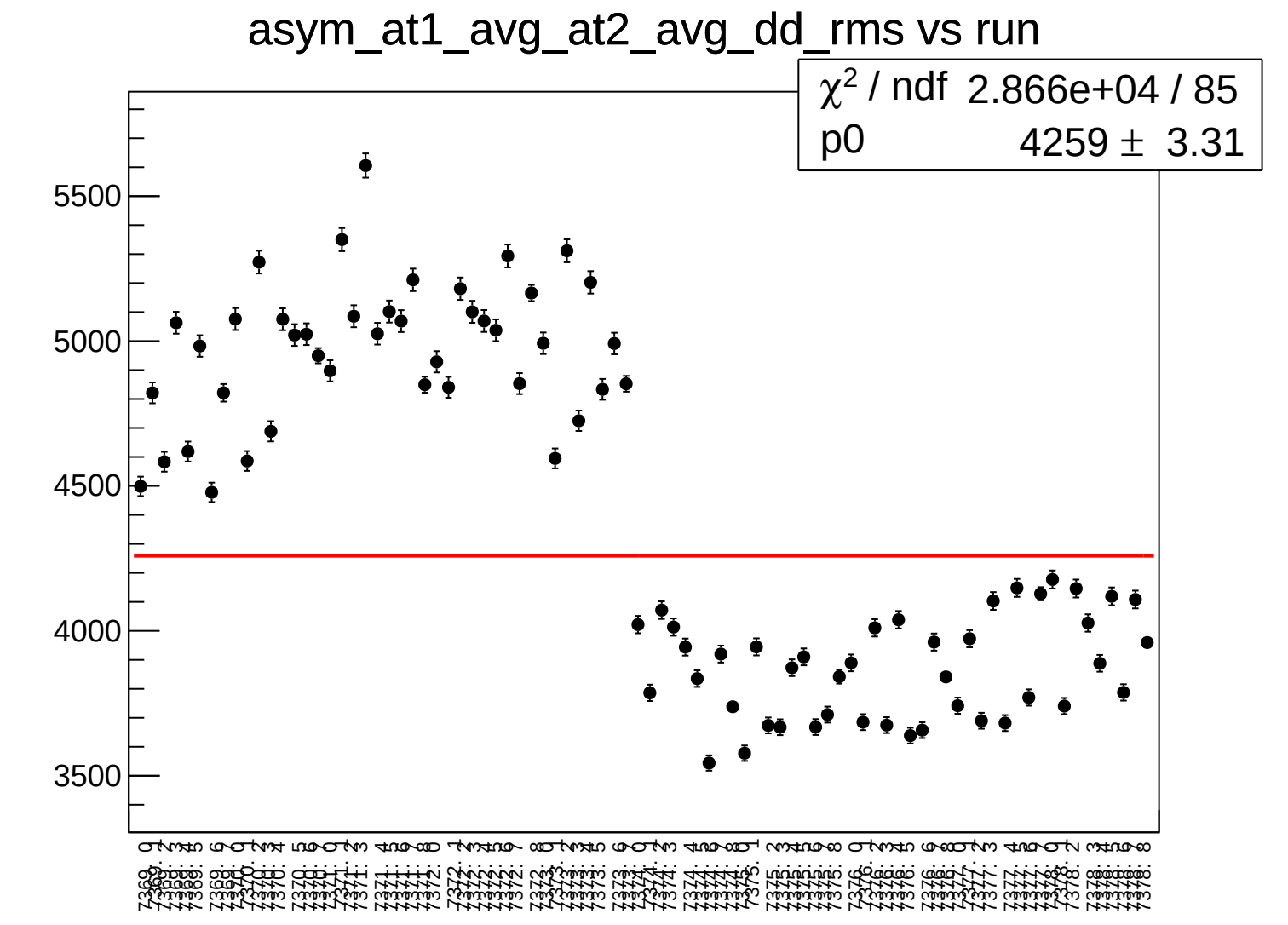

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 4578 / 85
p0 1414 ± 1.091
1650
1600
1550
1500
1450
1400
1350
1300
1250

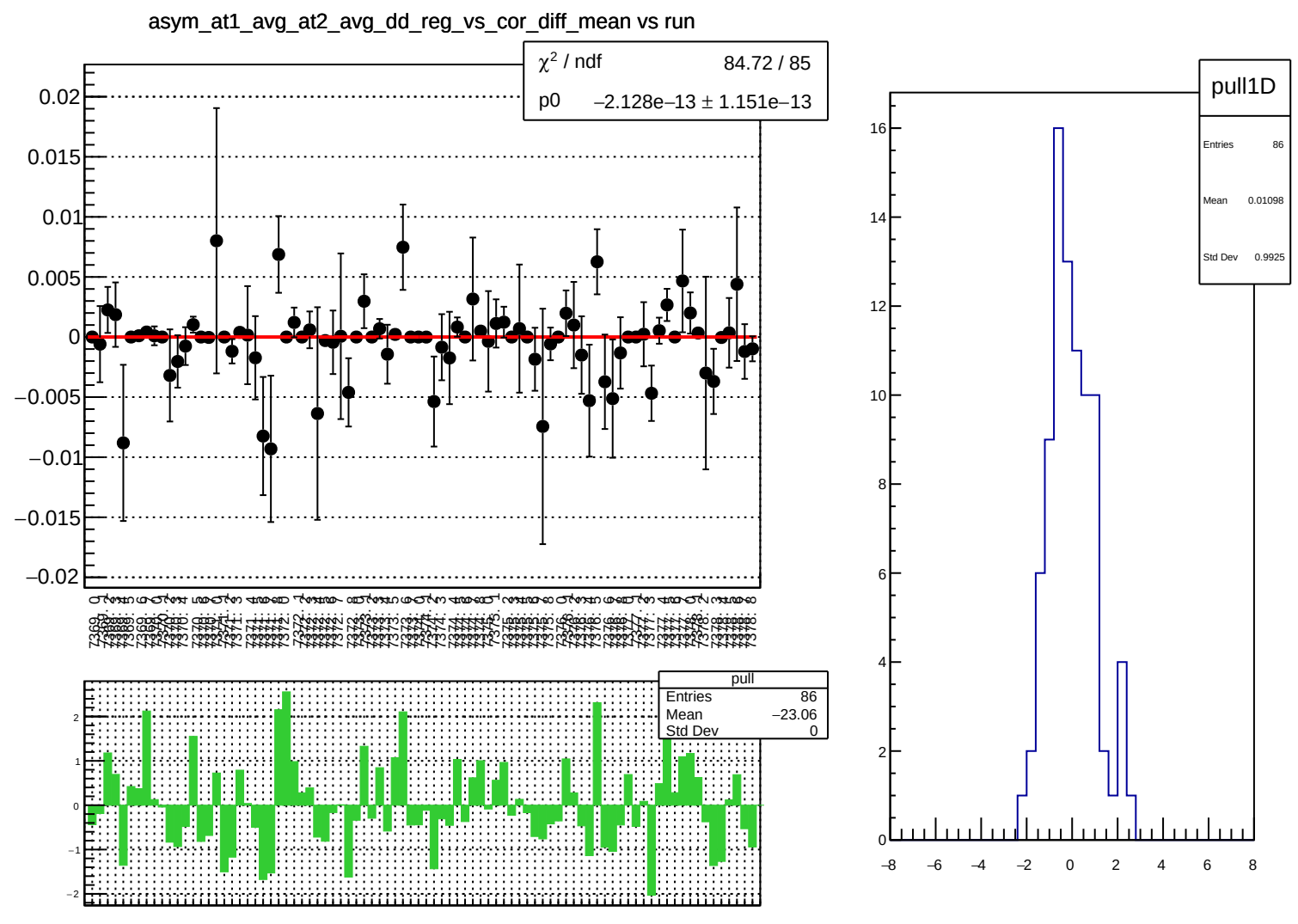

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.95 / 85
p0 5458 ± 4961
pull
Entries 86
Mean −330.8
Std Dev 0
pull1D
Entries 86
Mean −0.003026
Std Dev 1.067

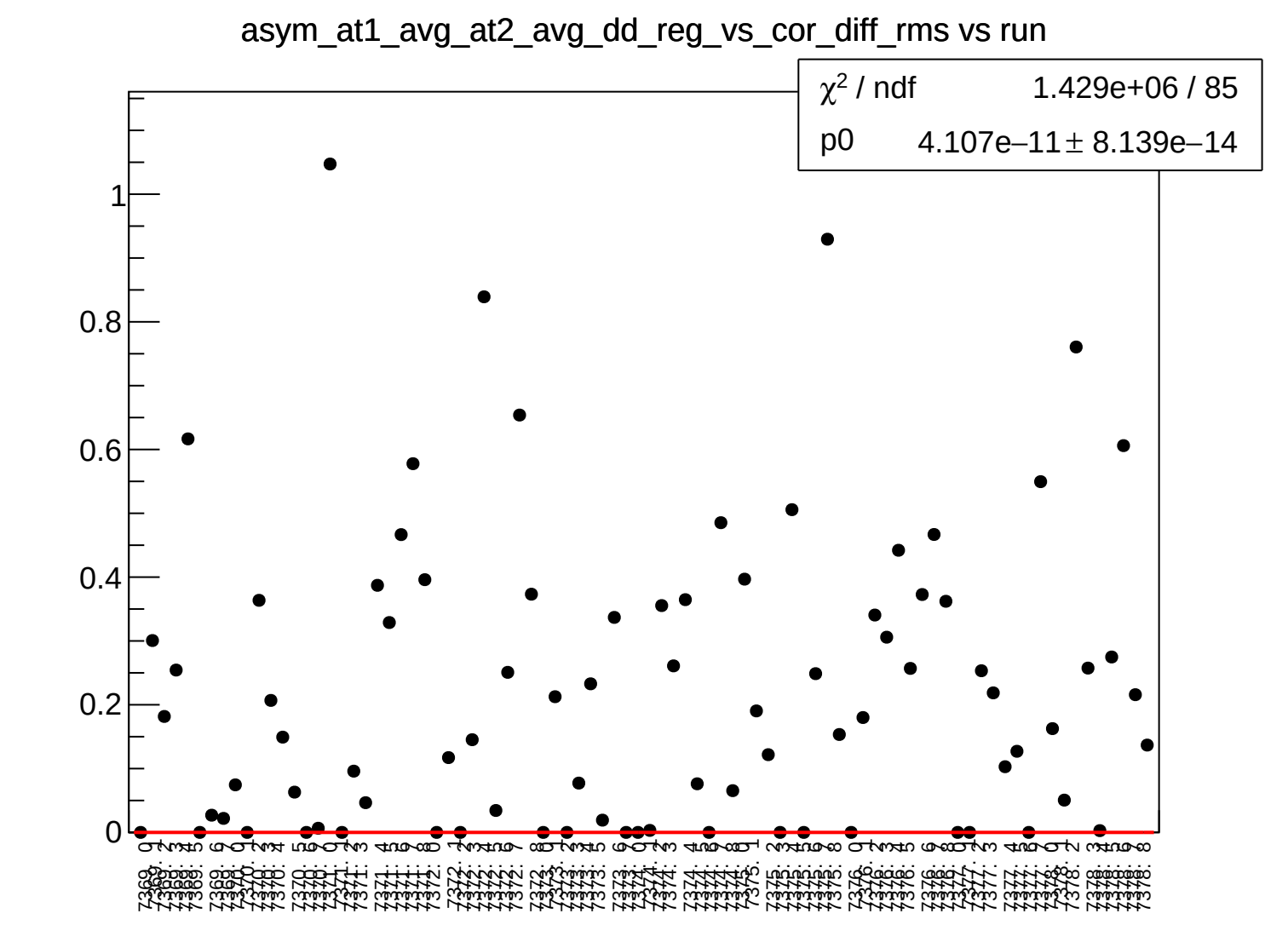

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.17e+04 / 85
p0 4509 ± 3.508
6000
5500
5000
4500
4000
3500

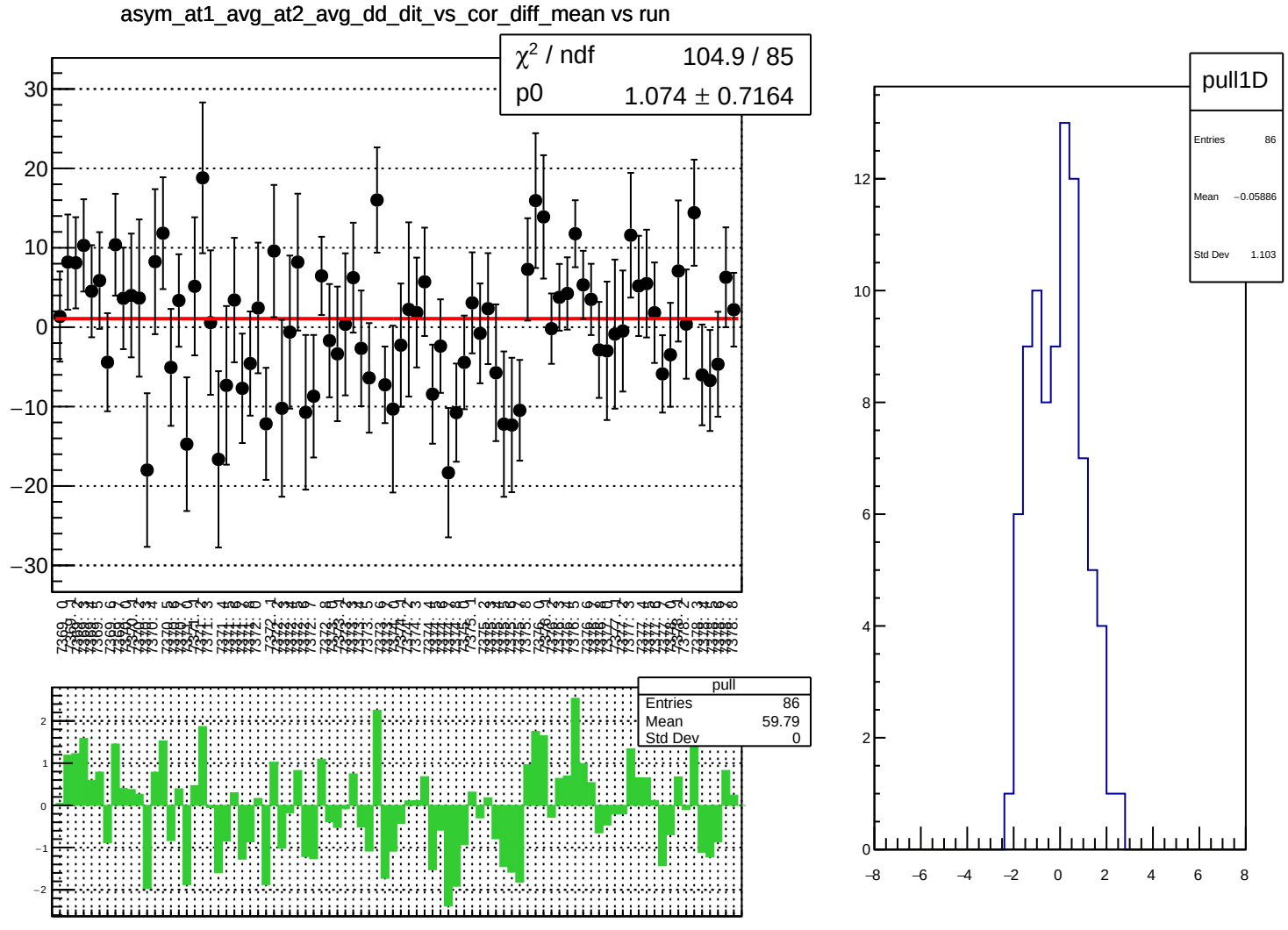

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 94.86 / 85
p0 −6778 ± 4681
pull
Entries 86
Mean −189.8
Std Dev 0

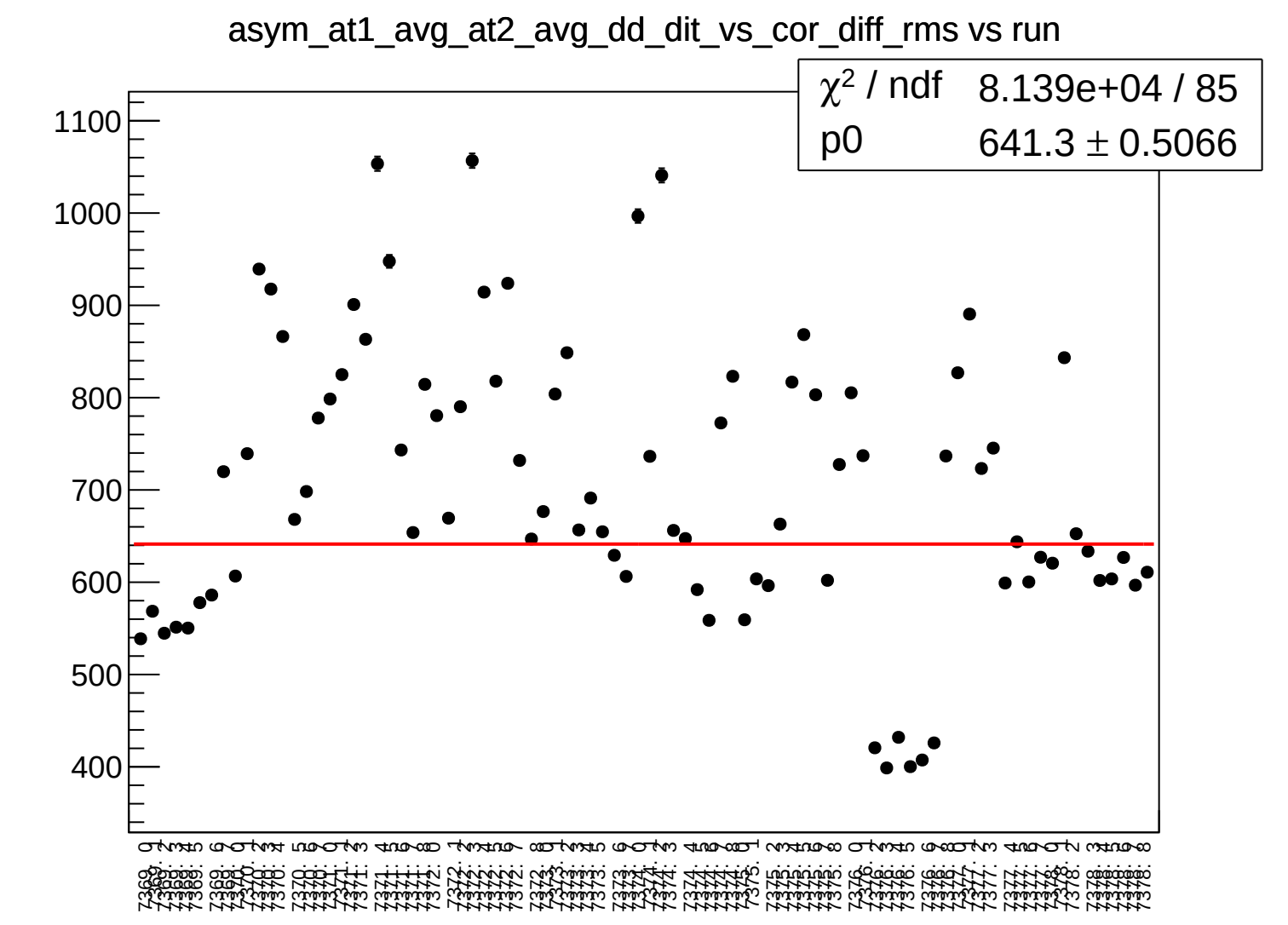

pull1D
Entries 86
Mean 0.002573
Std Dev 1.05

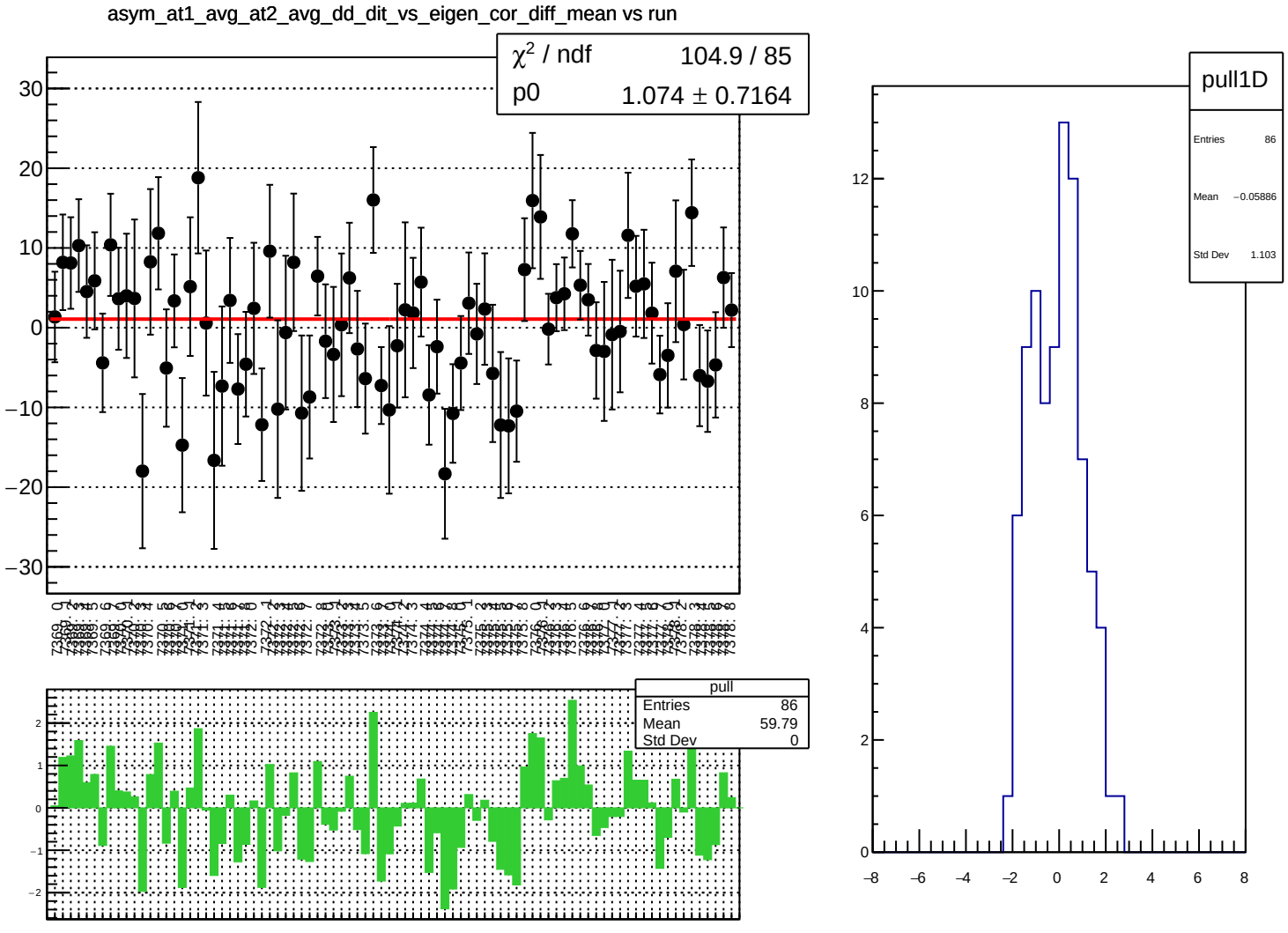

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2.866e+04 / 85
p0 4259 ± 3.31
5500
5000
4500
4000
3500

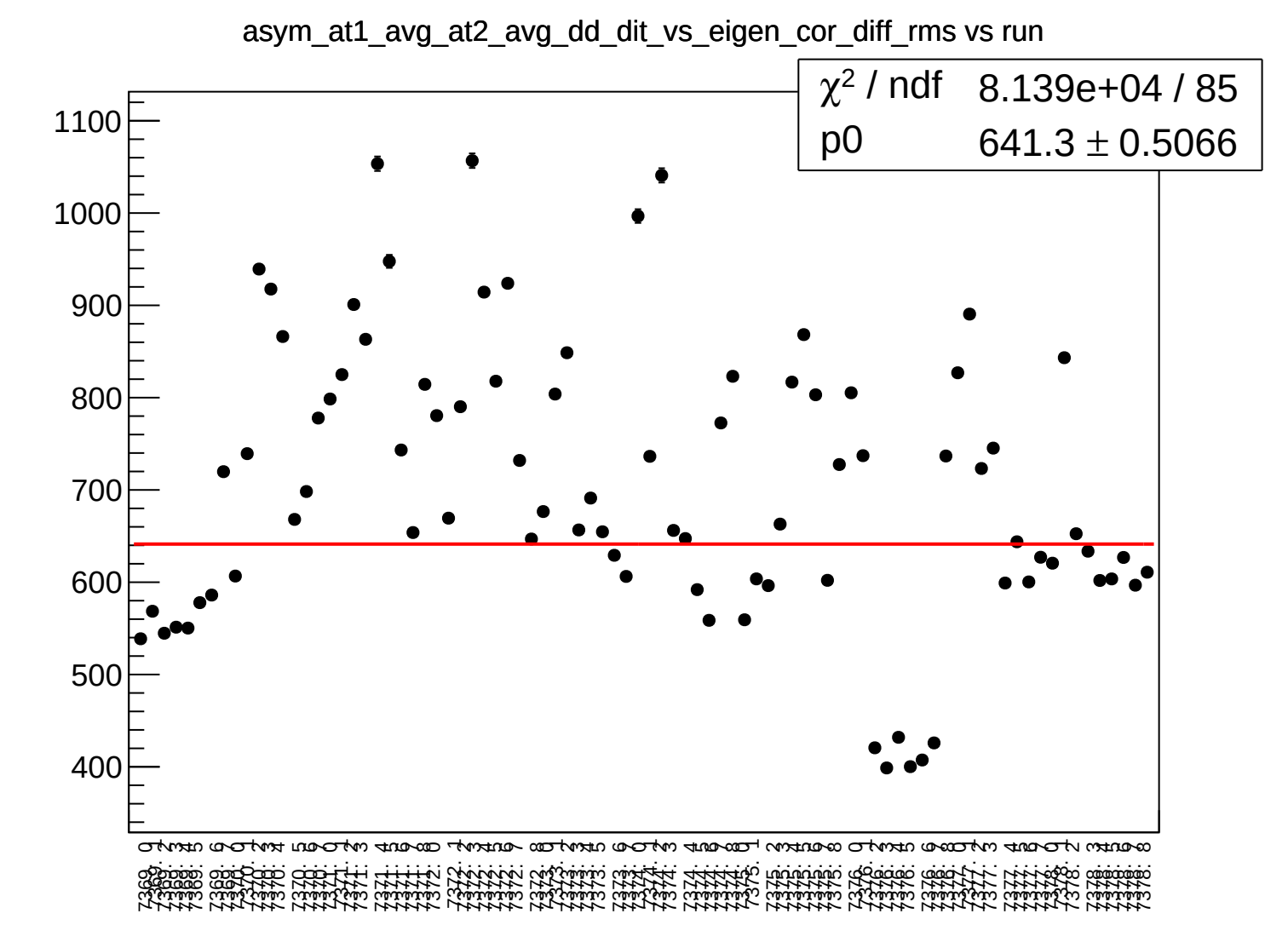

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.72 / 85
p0 −2.128e−13 ± 1.151e−13
pull
Entries 86
Mean −23.06
Std Dev 0
pull1D
Entries 86
Mean 0.01098
Std Dev 0.9925

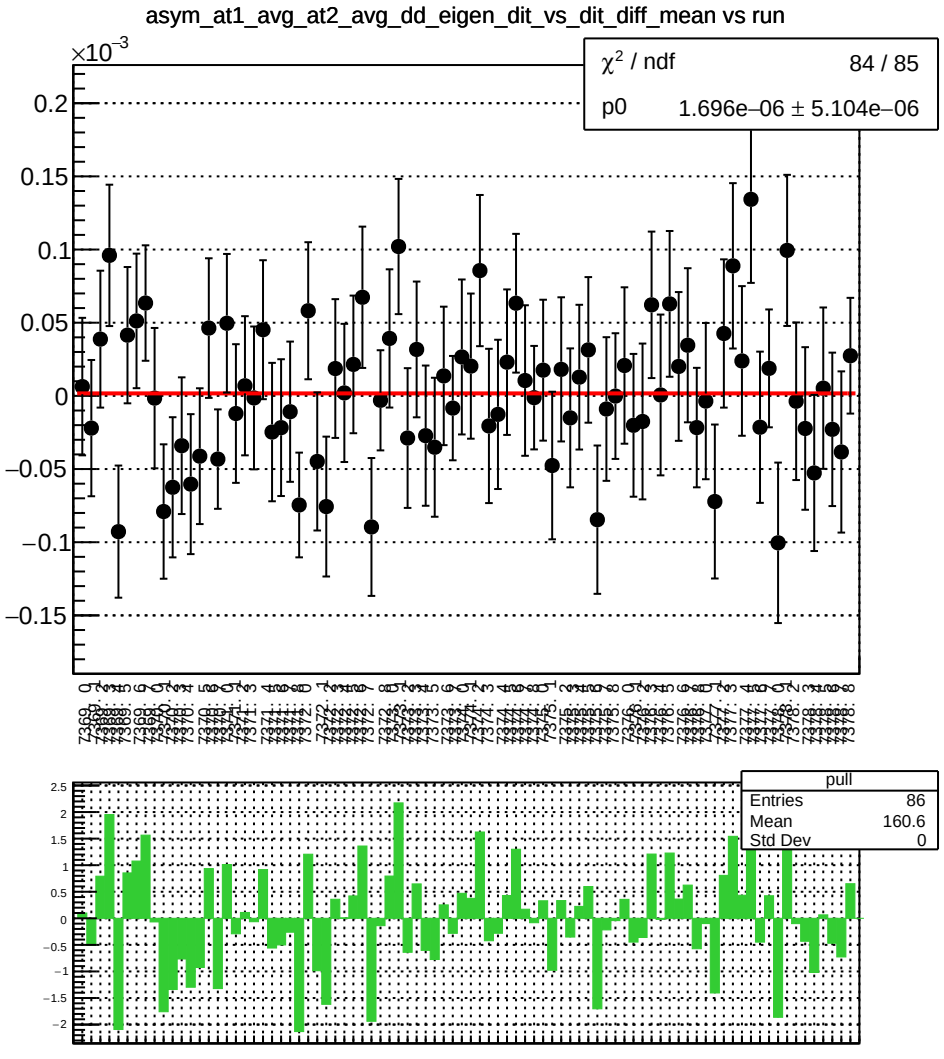

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.429e+06 / 85
p0 4.107e−11 ± 8.139e−14
1
0.8
0.6
0.4
0.2
0

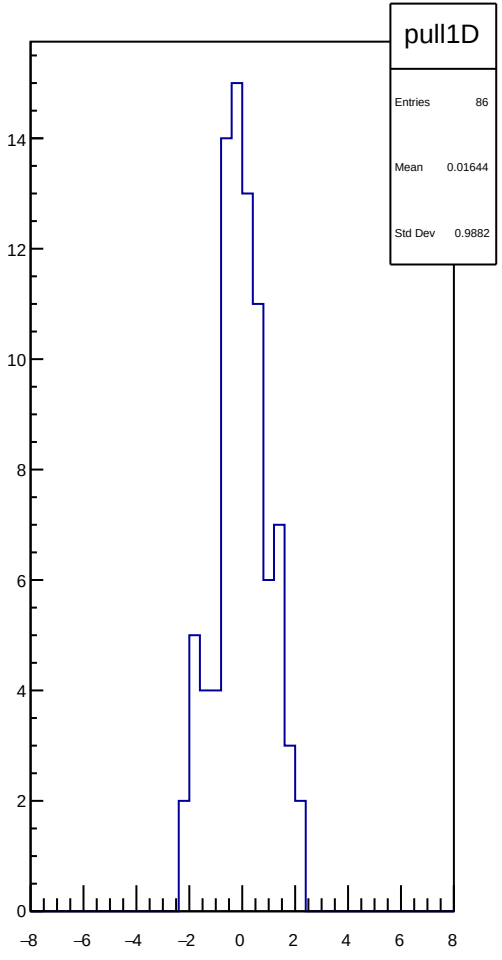

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 85
p0 1.074 ± 0.7164
pull
Entries 86
Mean 59.79
Std Dev 0
pull1D
Entries 86
Mean −0.05886
Std Dev 1.103

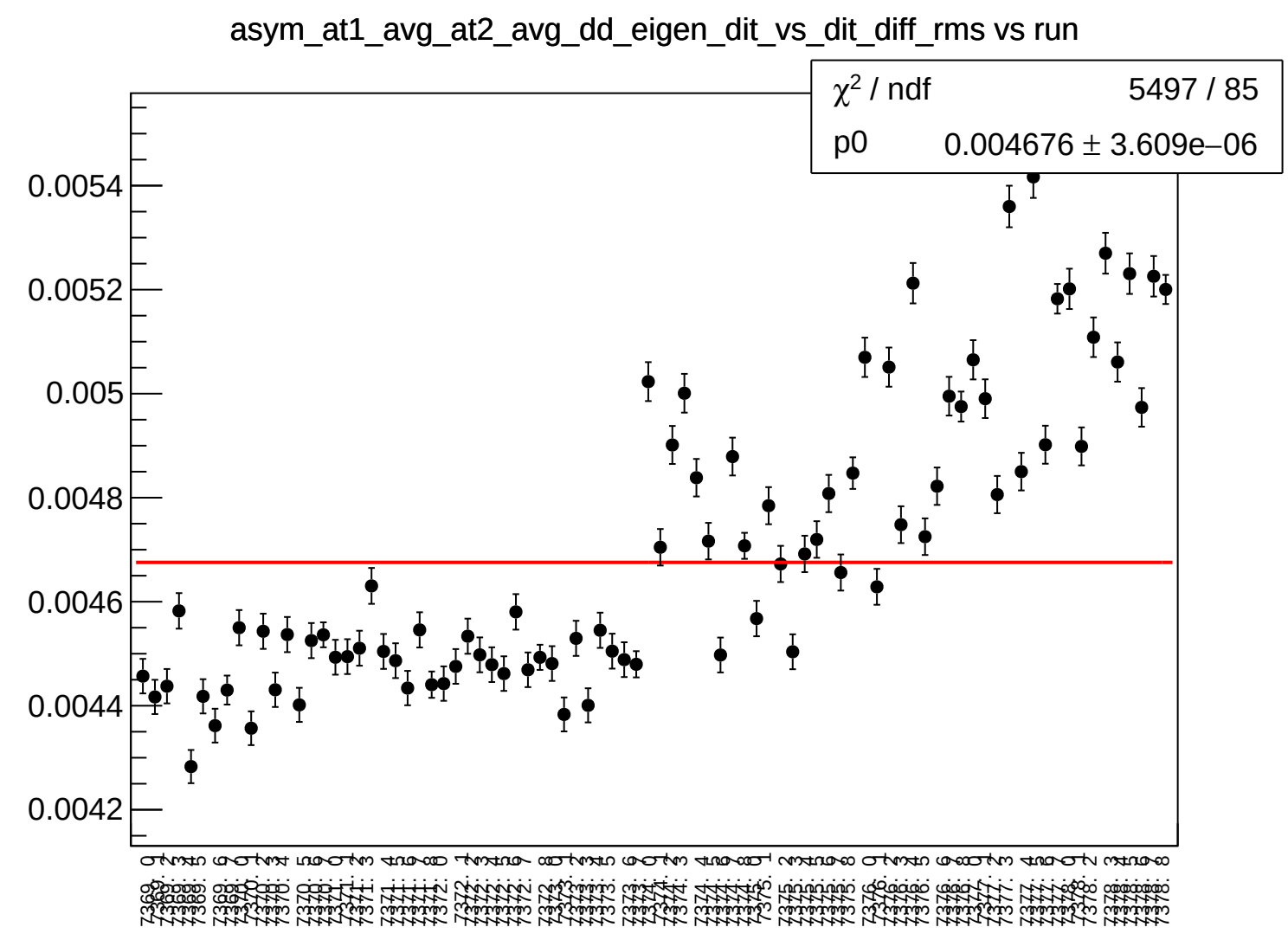

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400

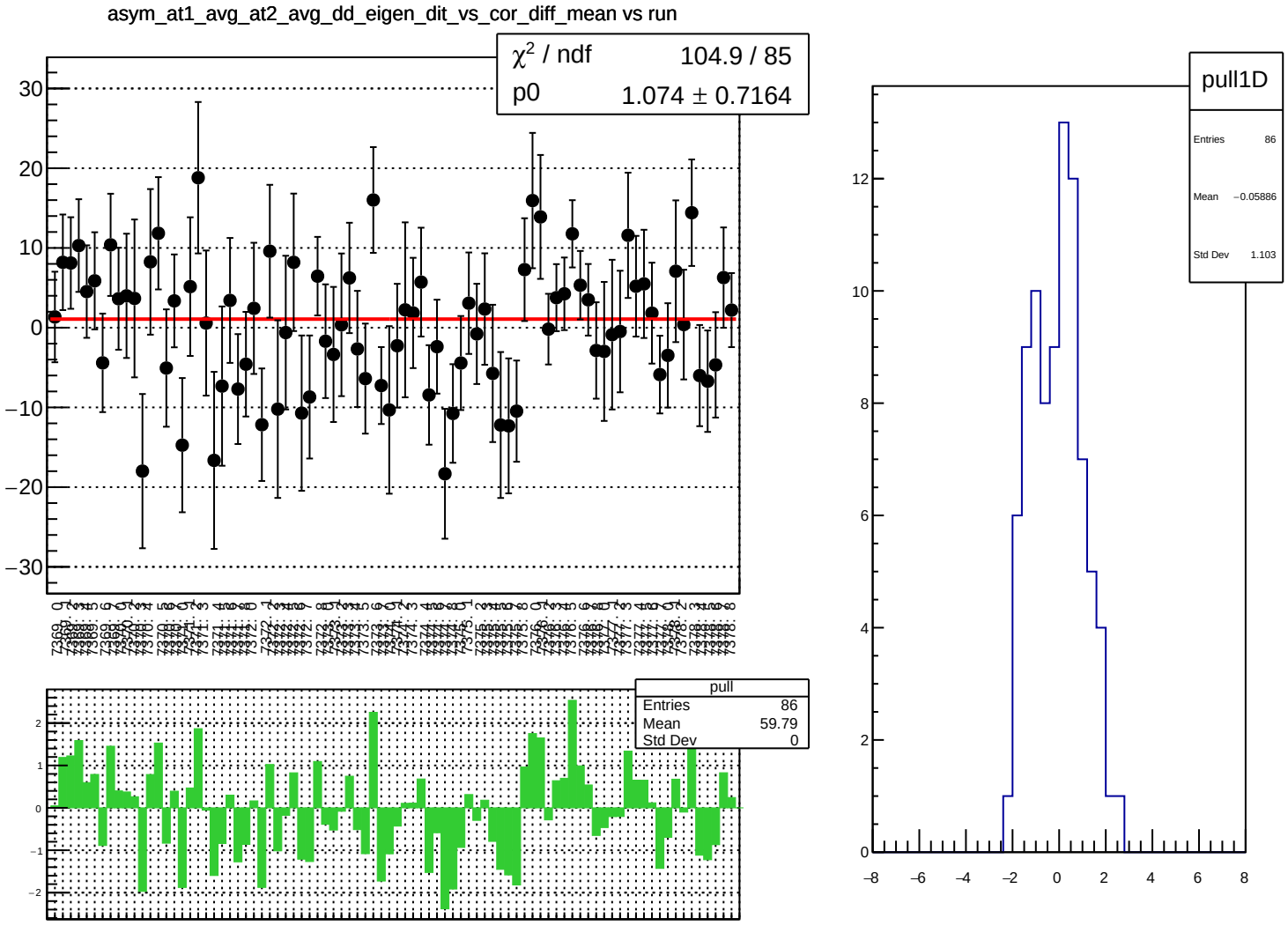

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 85
p0 1.074 ± 0.7164
pull
Entries 86
Mean 59.79
Std Dev 0
pull1D
Entries 86
Mean −0.05886
Std Dev 1.103

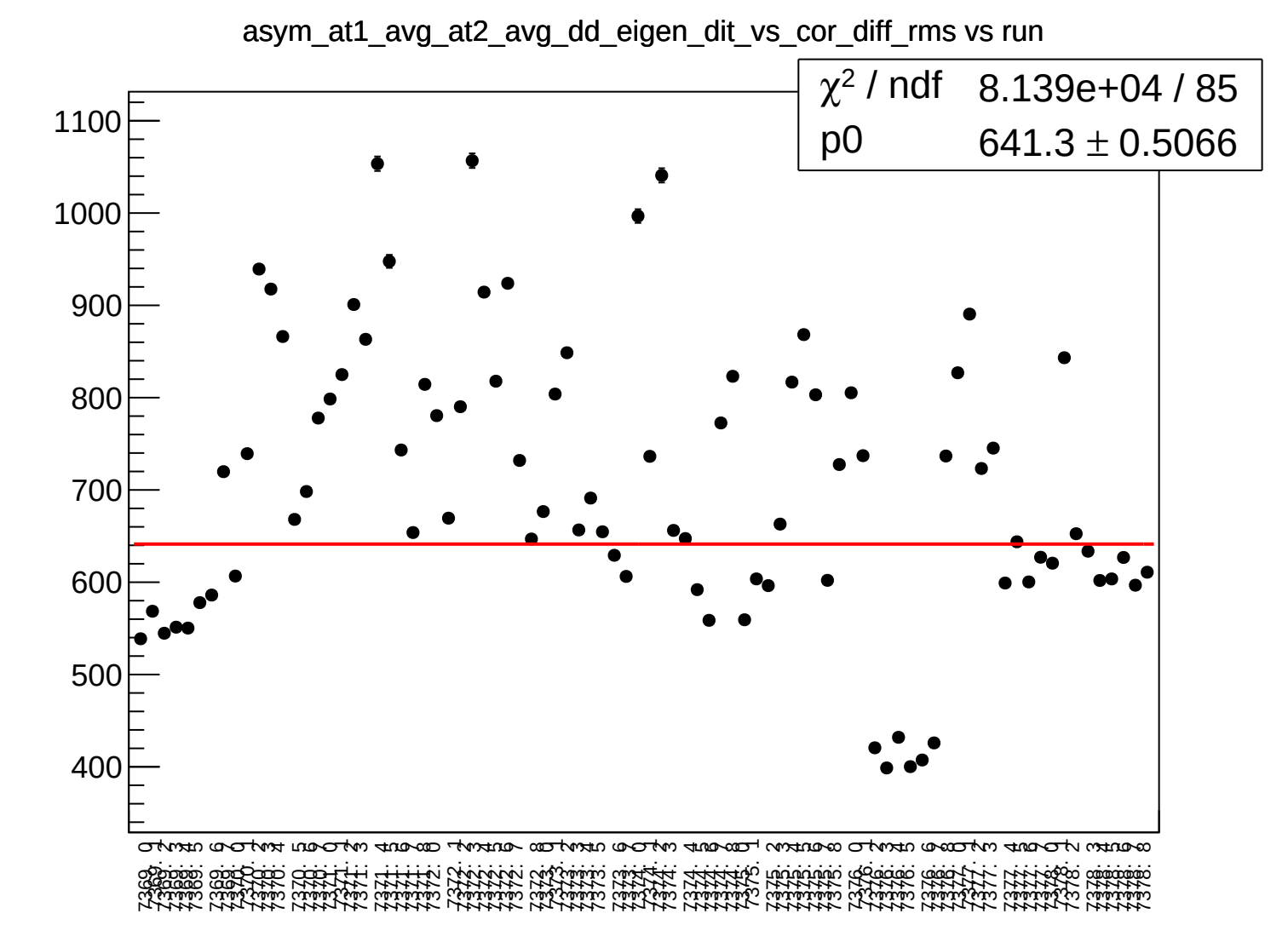

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400

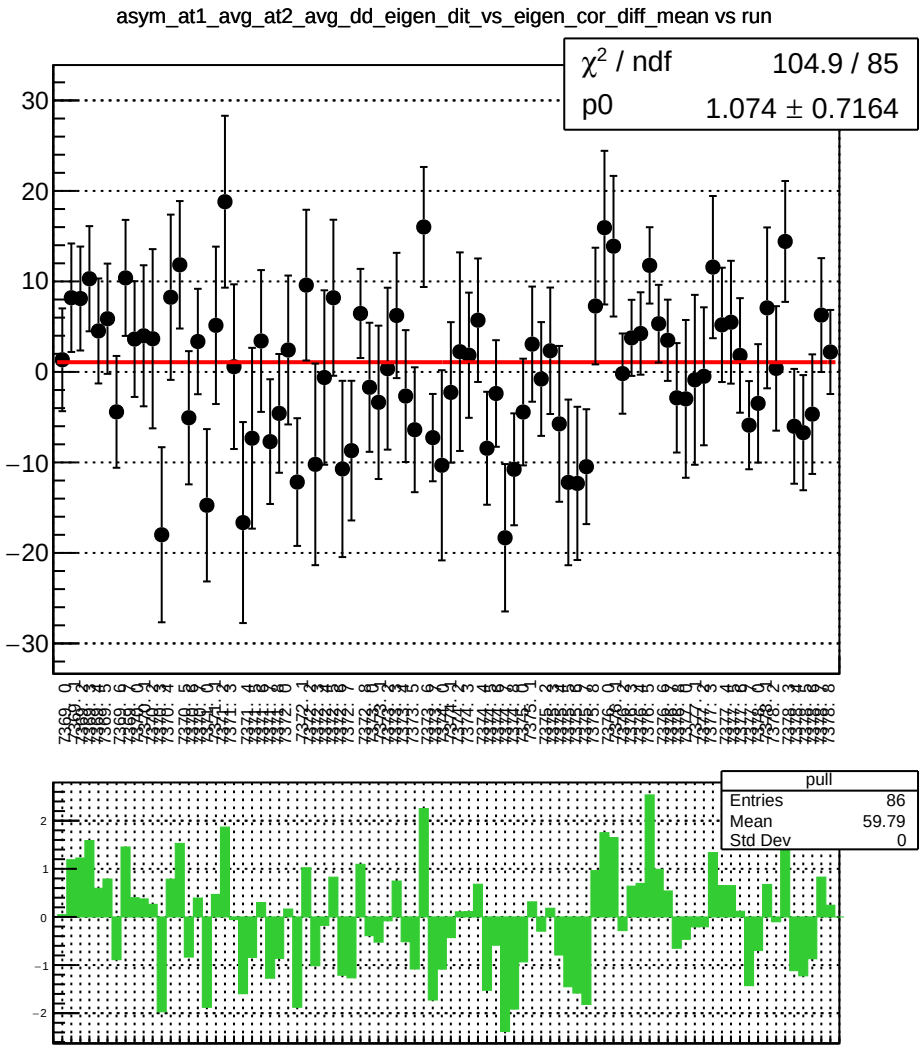

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84 / 85
p0 1.696e−06 ± 5.104e−06
pull
Entries 86
Mean 160.6
Std Dev 0

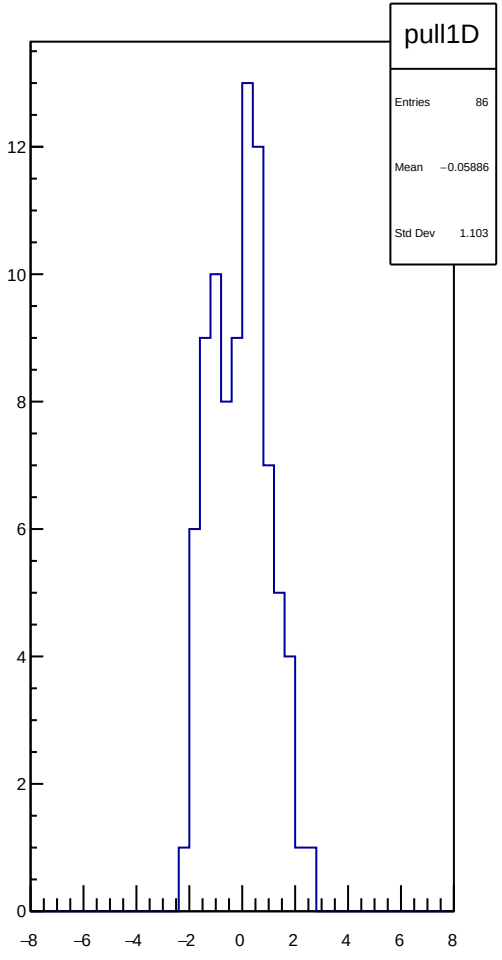

pull1D
Entries 86
Mean 0.01644
Std Dev 0.9882

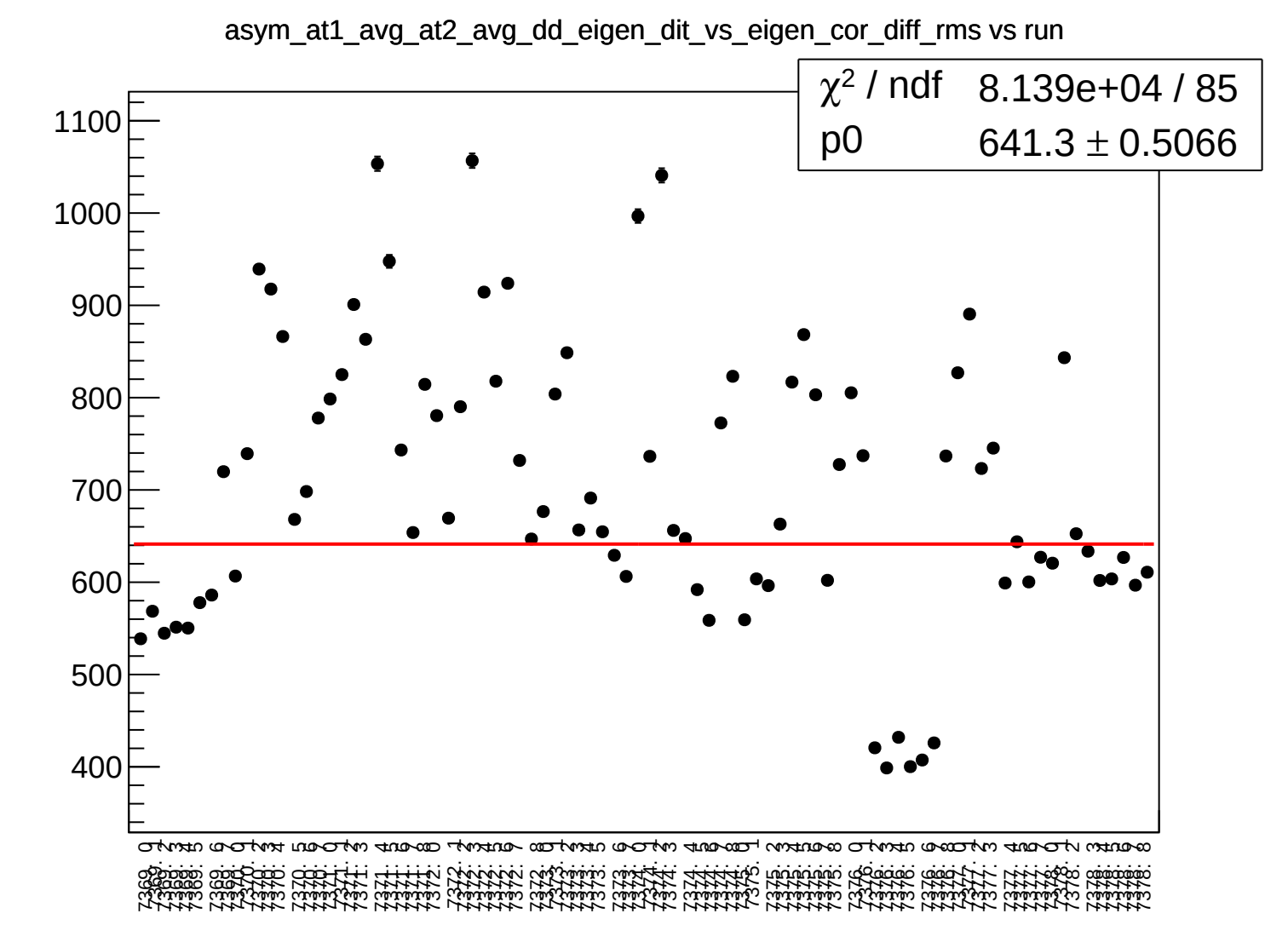

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5497 / 85
p0 0.004676 ± 3.609e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

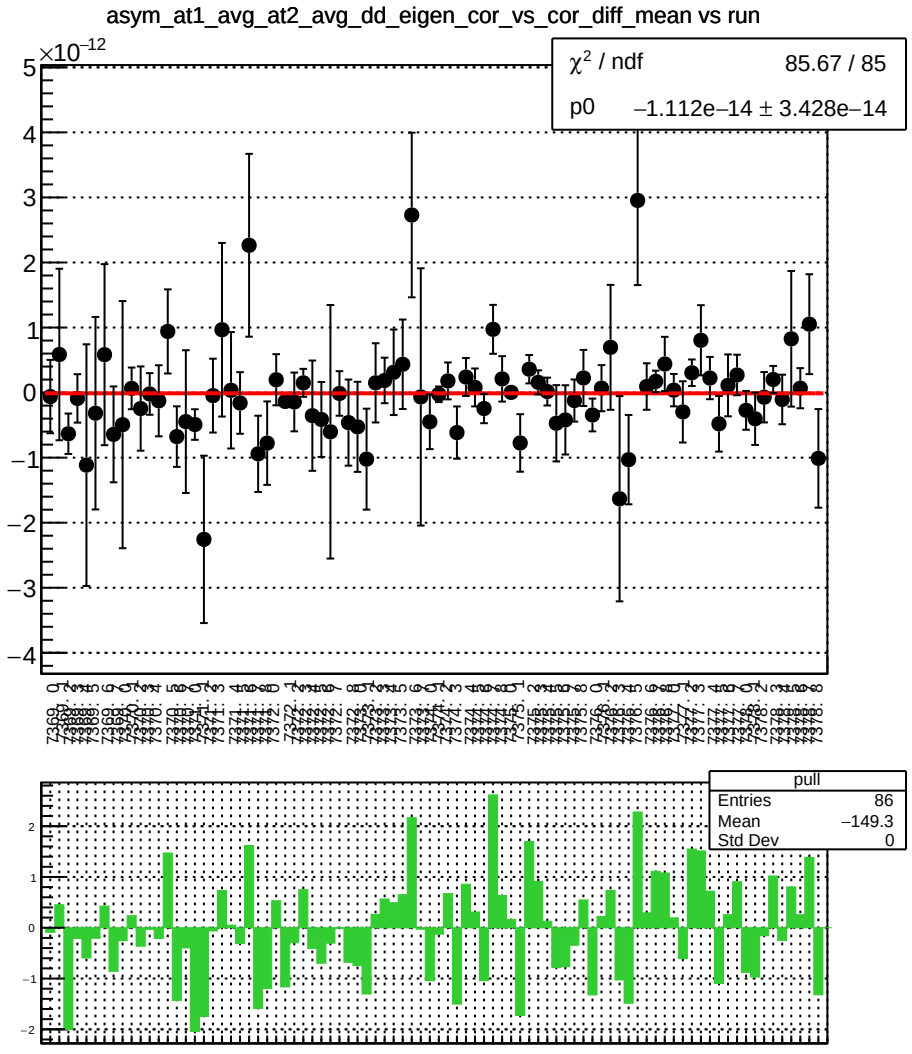

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 85
p0 1.074 ± 0.7164
pull
Entries 86
Mean 59.79
Std Dev 0
pull1D
Entries 86
Mean −0.05886
Std Dev 1.103

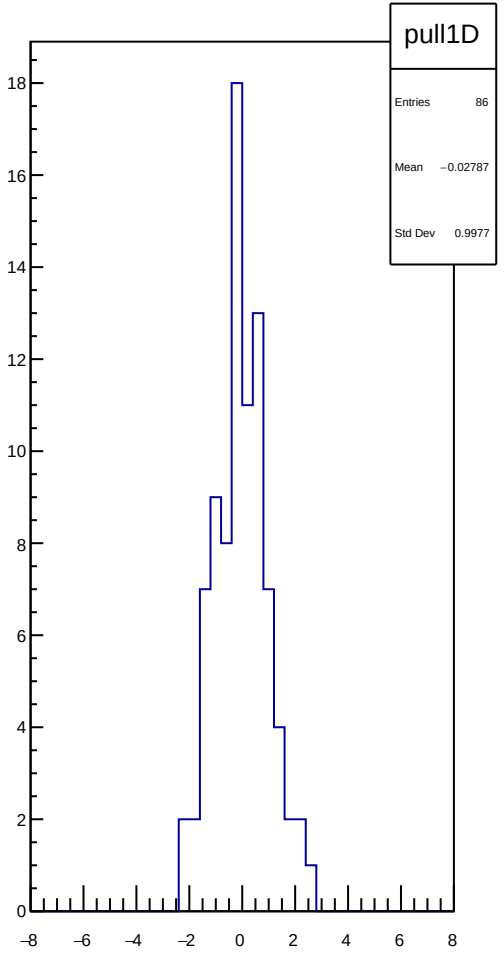

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400

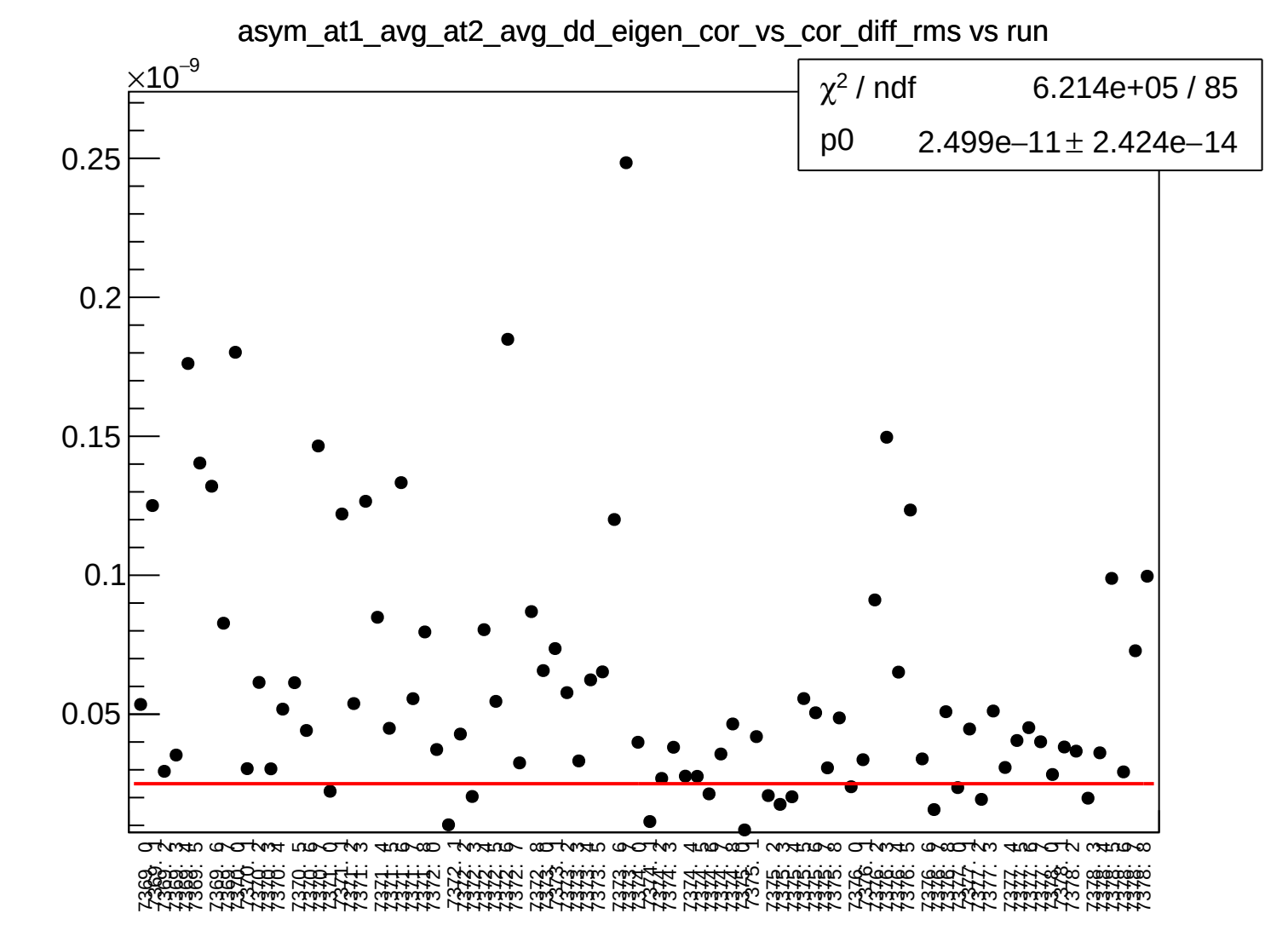

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 85
p0 1.074 ± 0.7164
pull
Entries 86
Mean 59.79
Std Dev 0

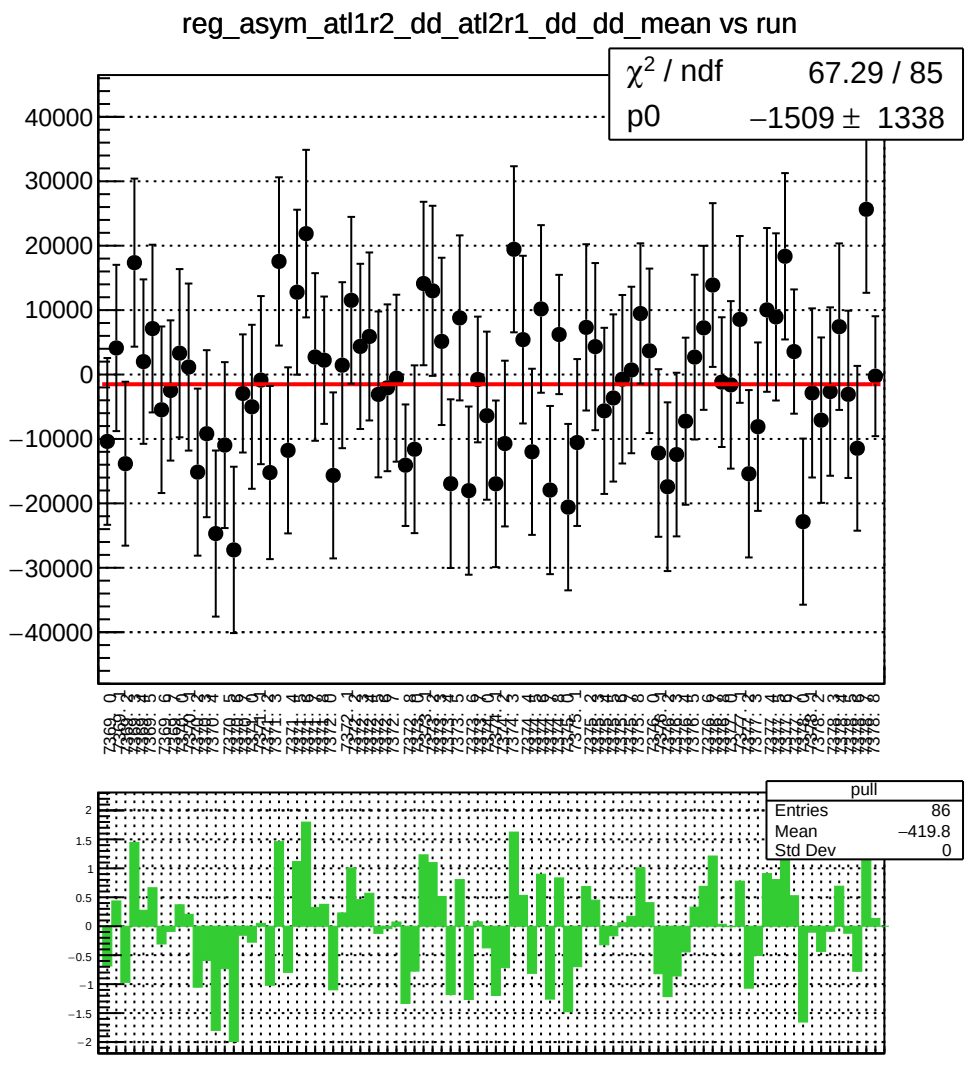

pull1D
Entries 86
Mean −0.05886
Std Dev 1.103

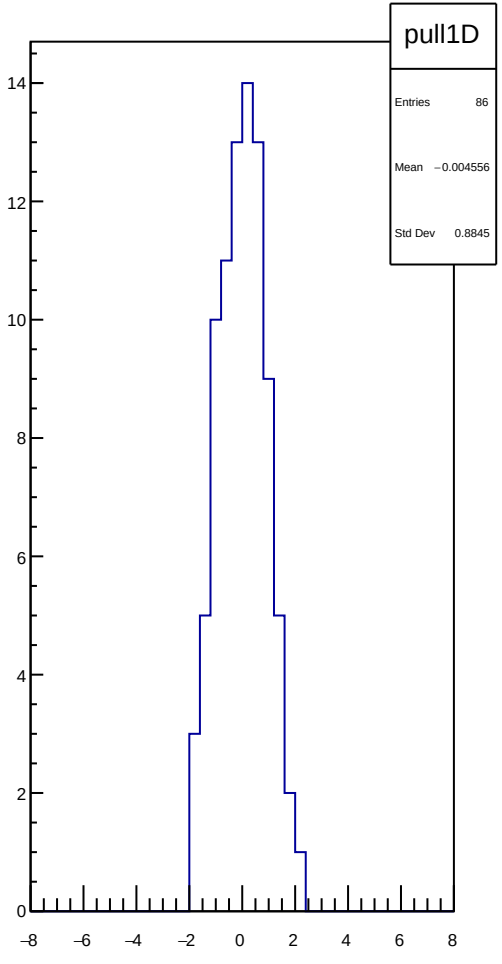

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400

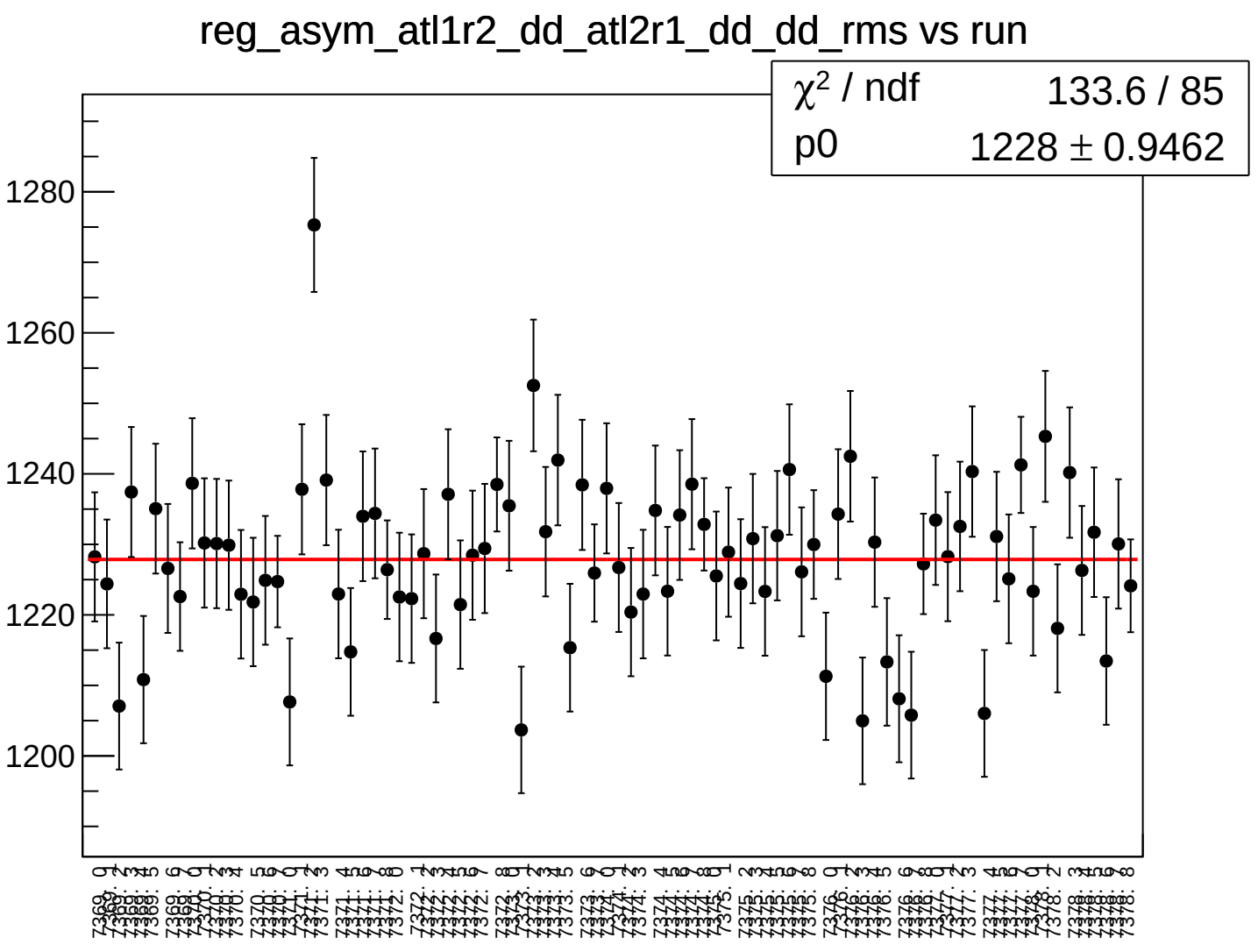

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.67 / 85
p0 −1.112e−14 ± 3.428e−14
pull
Entries 86
Mean −149.3
Std Dev 0

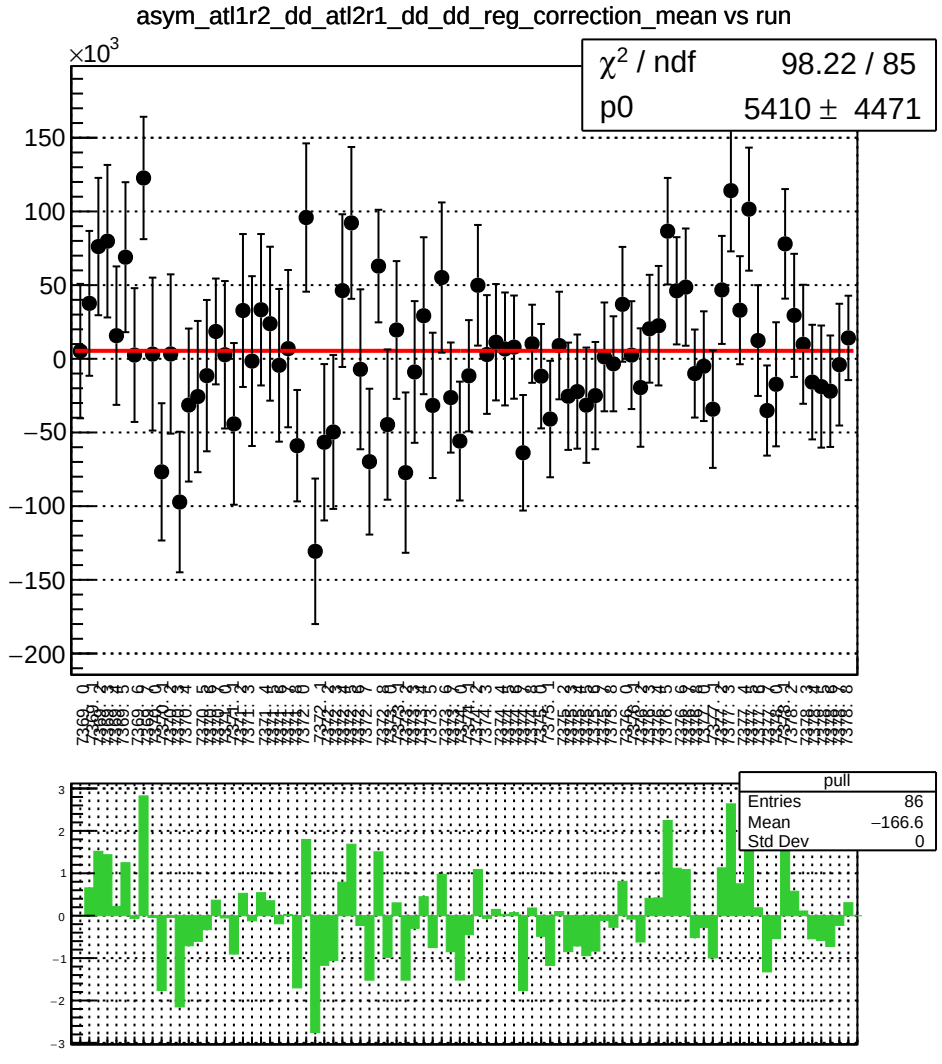

pull1D
Entries 86
Mean −0.02787
Std Dev 0.9977

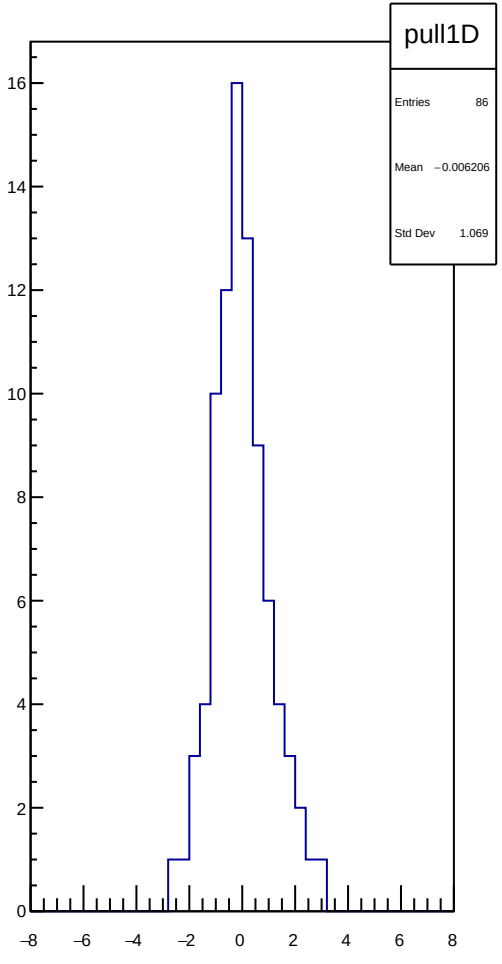

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.214e+05 / 85
p0 2.499e−11 ± 2.424e−14
0.25
0.2
0.15
0.1
0.05

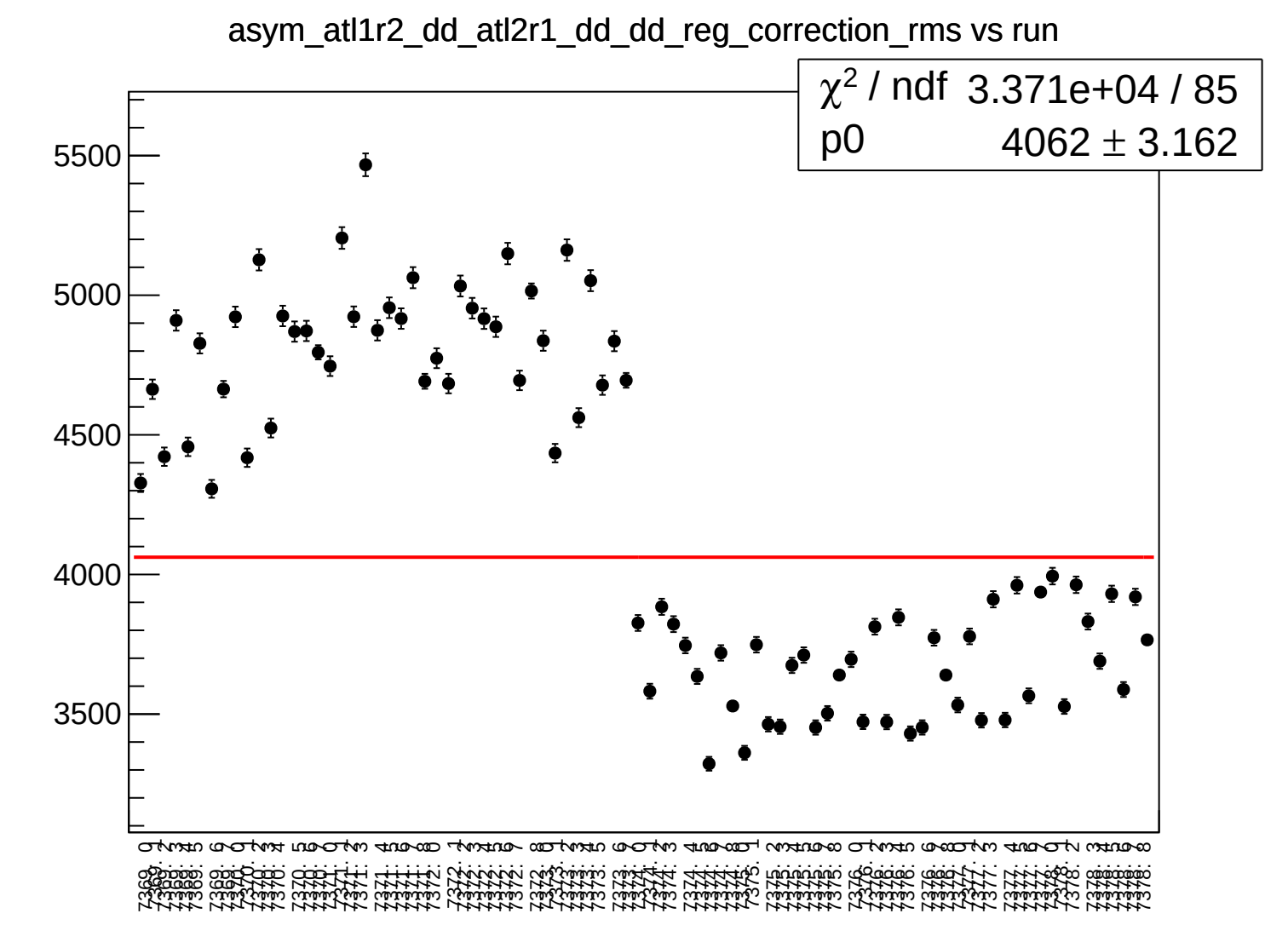

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.29 / 85
p0 −1509 ± 1338
pull
Entries 86
Mean −419.8
Std Dev 0

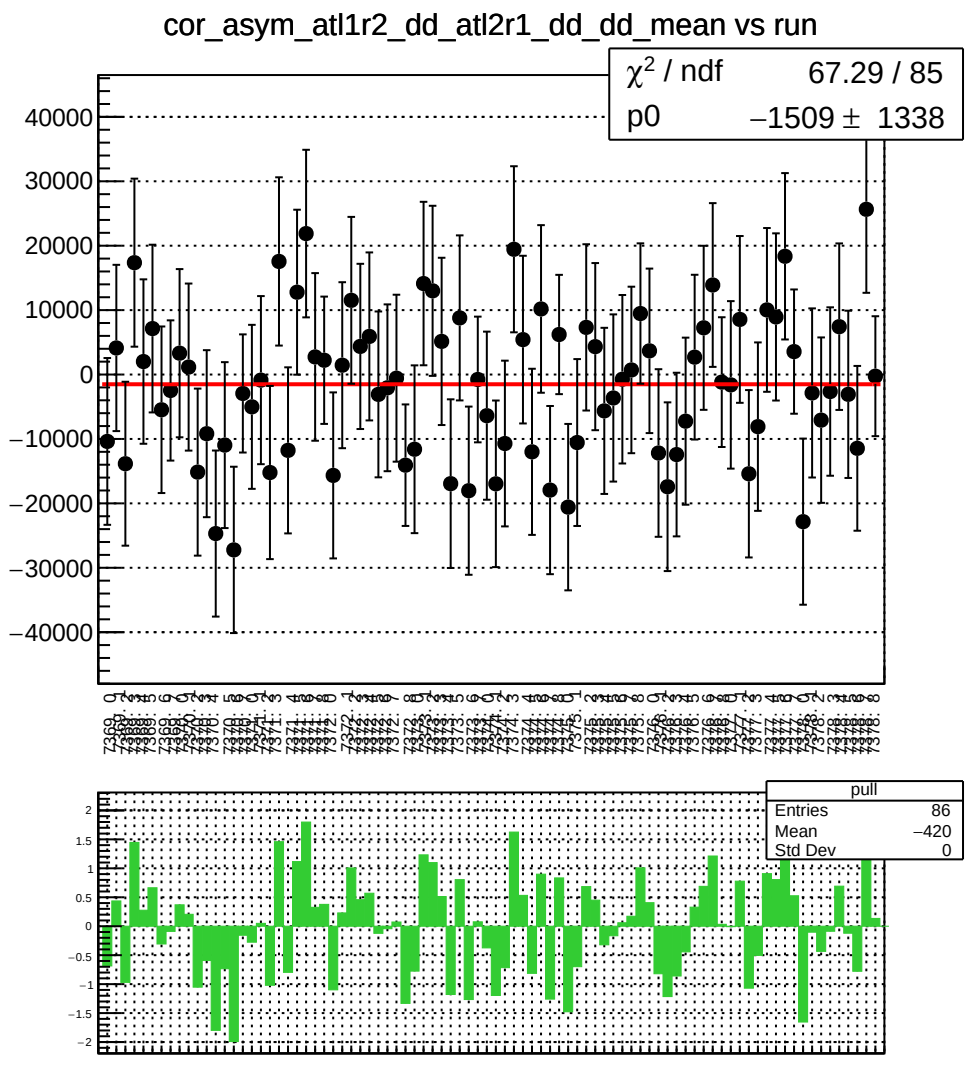

pull1D
Entries 86
Mean −0.004556
Std Dev 0.8845

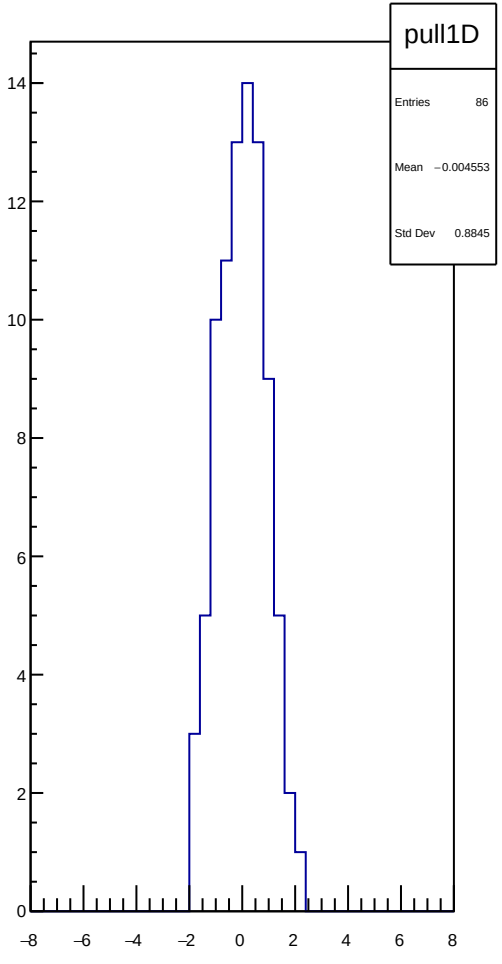

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 133.6 / 85
p0 1228 ± 0.9462
1280
1260
1240
1220
1200

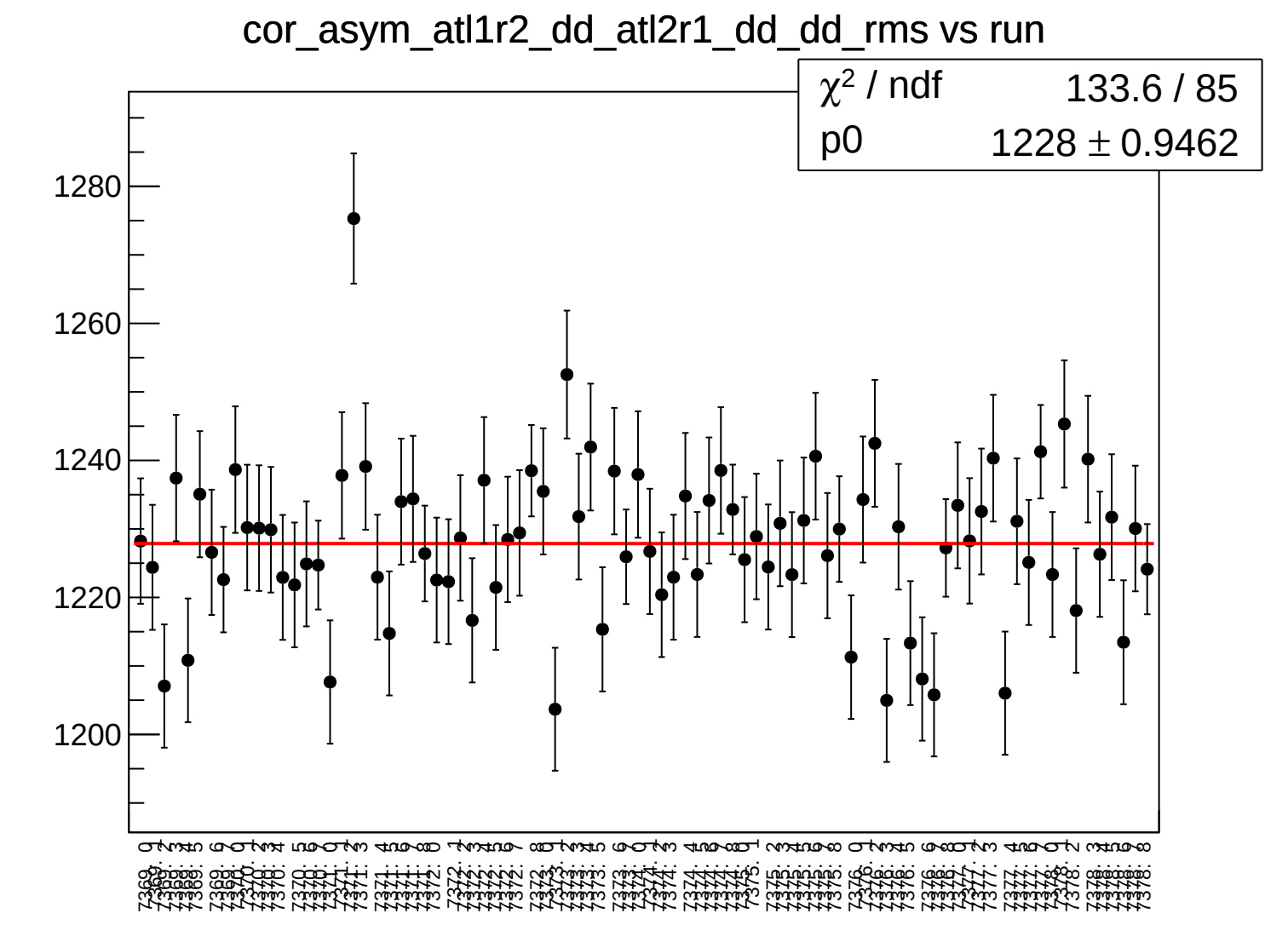

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 98.22 / 85
p0 5410 ± 4471
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −166.6
Std Dev 0
3
2
1
0
−1
−2
−3

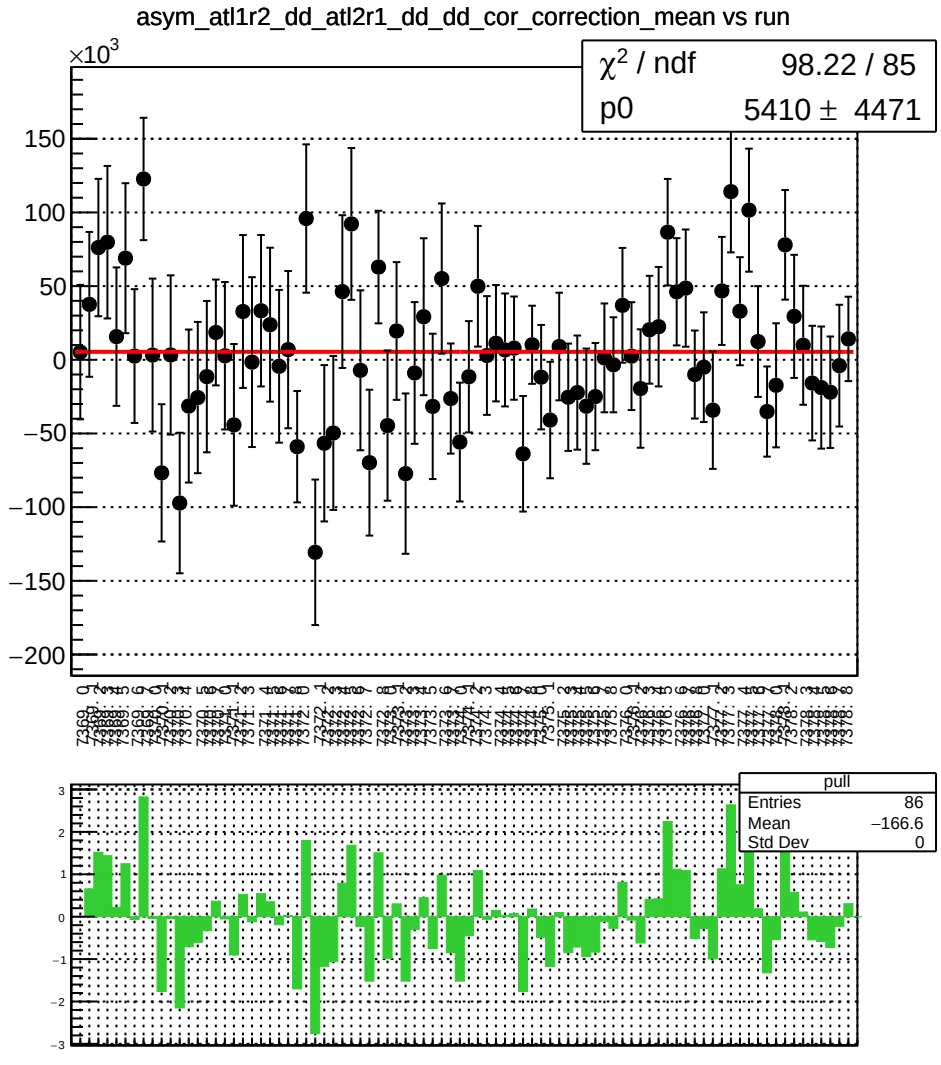

pull1D
Entries 86
Mean −0.006206
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

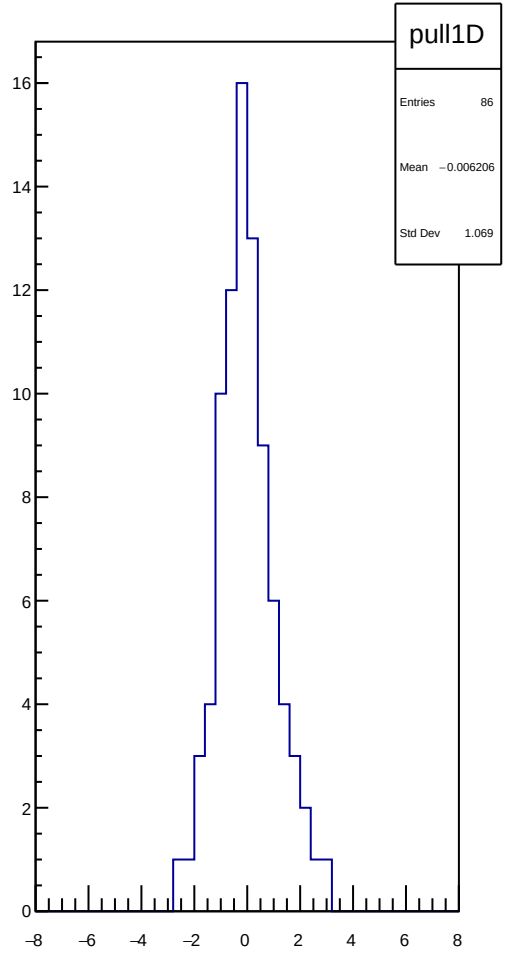

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 3.371e+04 / 85
p0 4062 ± 3.162
5500
5000
4500
4000
3500

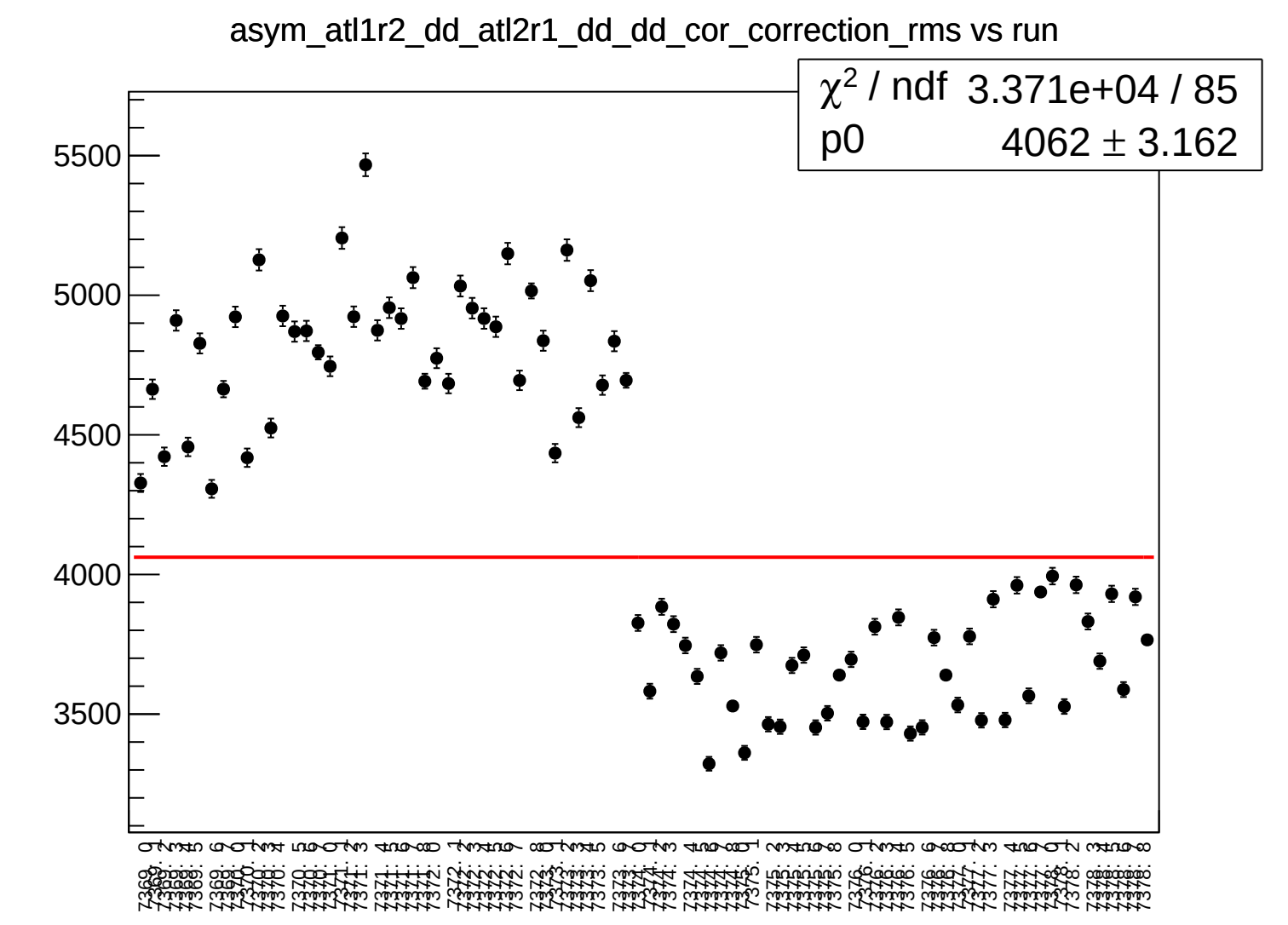

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ^2 / ndf 67.29 / 85
p0 −1509 ± 1338
pull
Entries 86
Mean −420
Std Dev 0

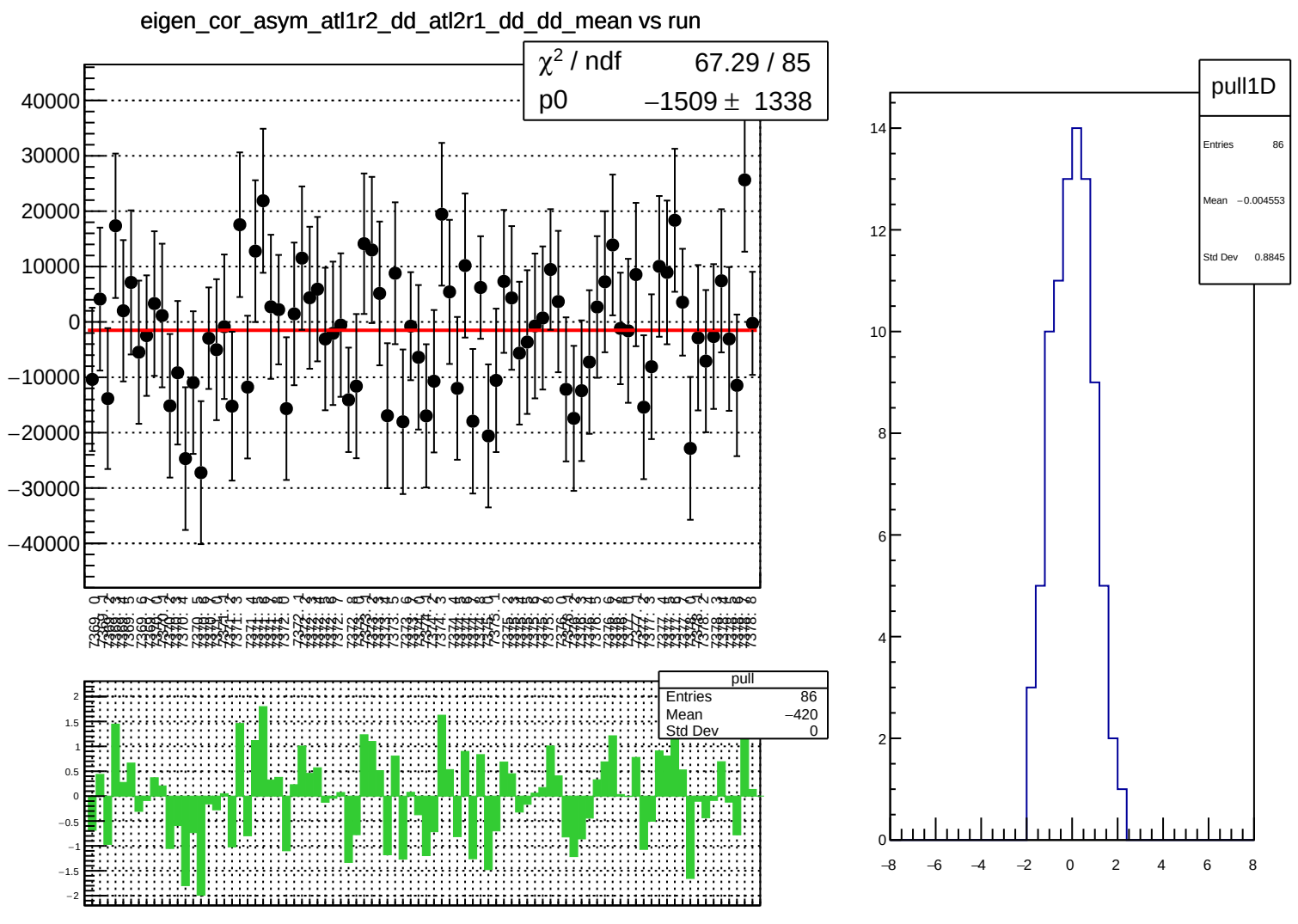

pull1D
Entries 86
Mean −0.004553
Std Dev 0.8845

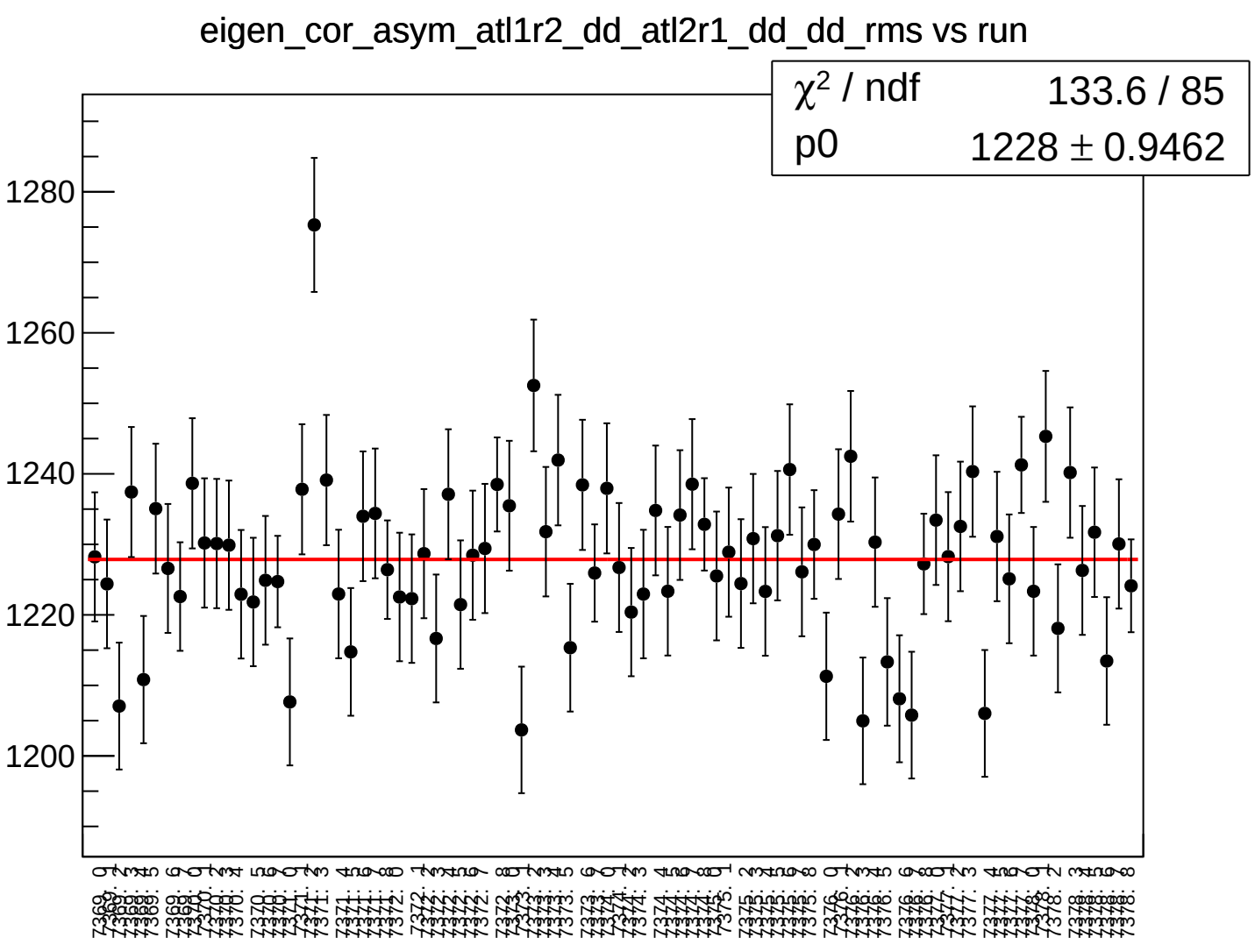

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 133.6 / 85
p0 1228 ± 0.9462
1280
1260
1240
1220
1200

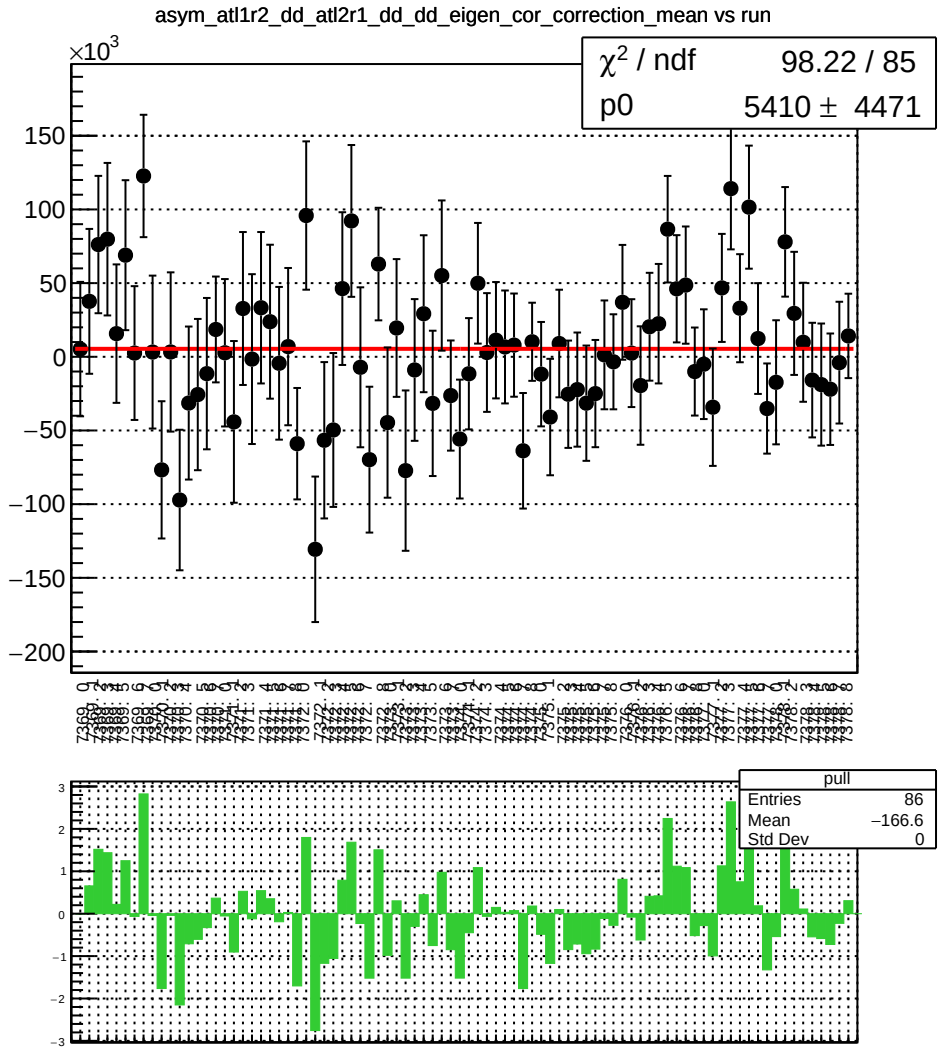

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 98.22 / 85
p0 5410 ± 4471
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −166.6
Std Dev 0
3
2
1
0
−1
−2
−3

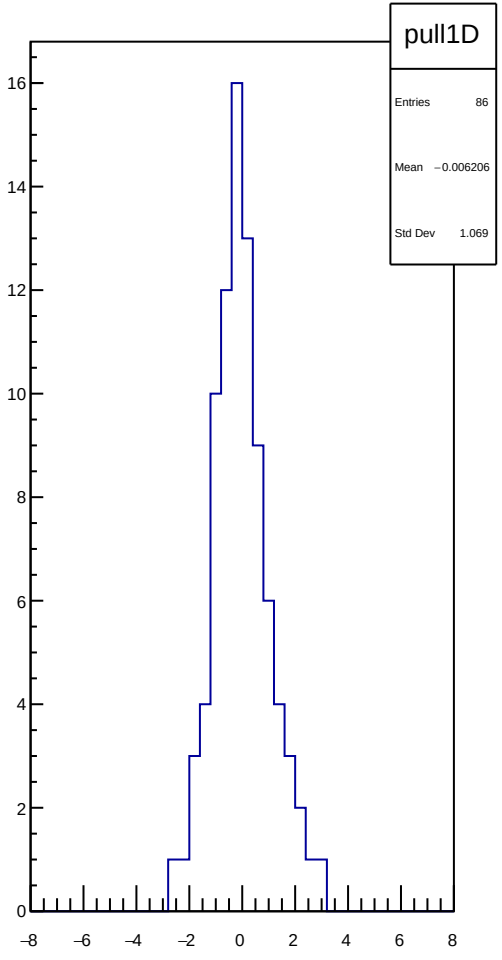

pull1D
Entries 86
Mean −0.006206
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

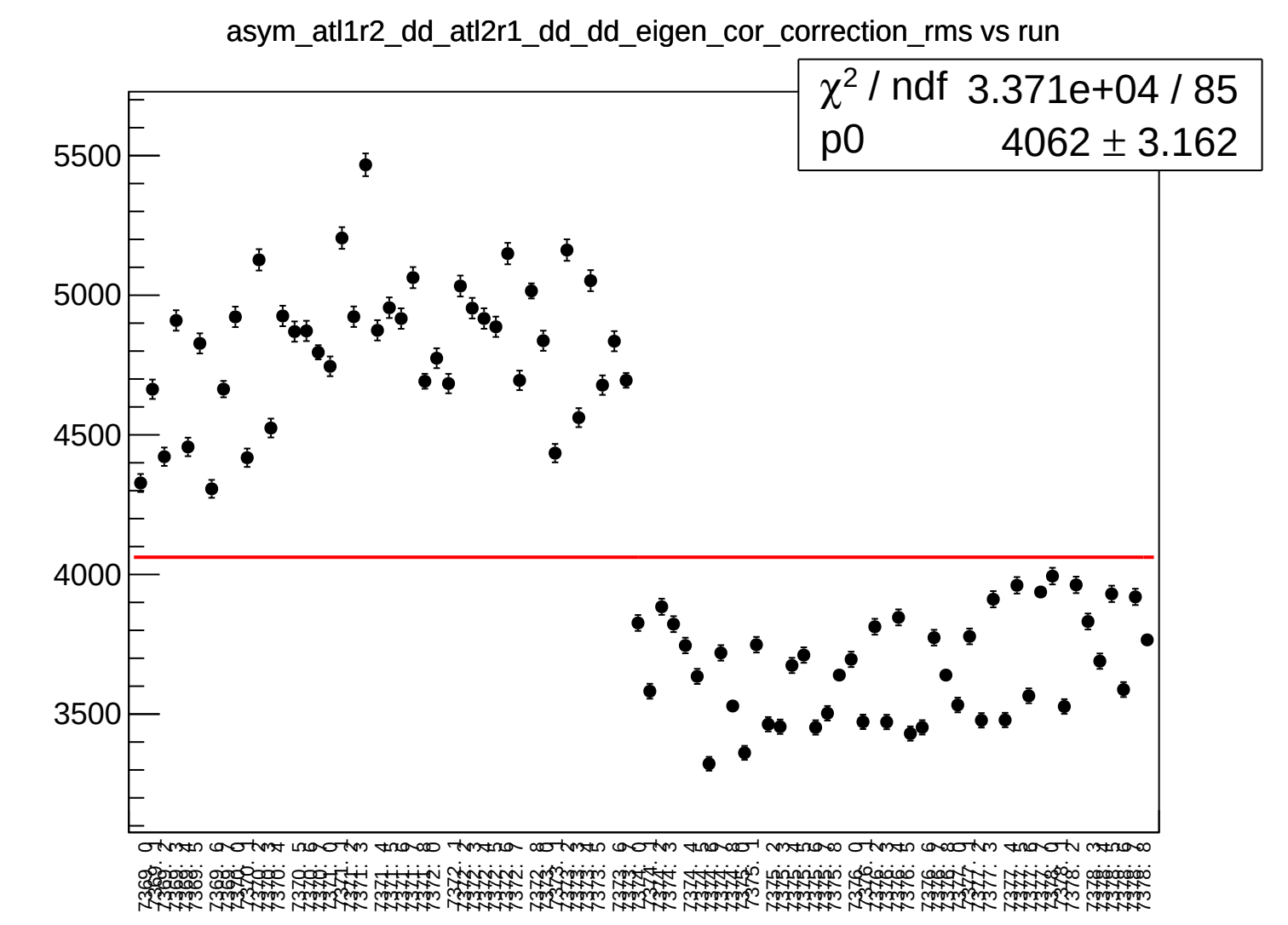

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 3.371e+04 / 85
p0 4062 ± 3.162
5500
5000
4500
4000
3500

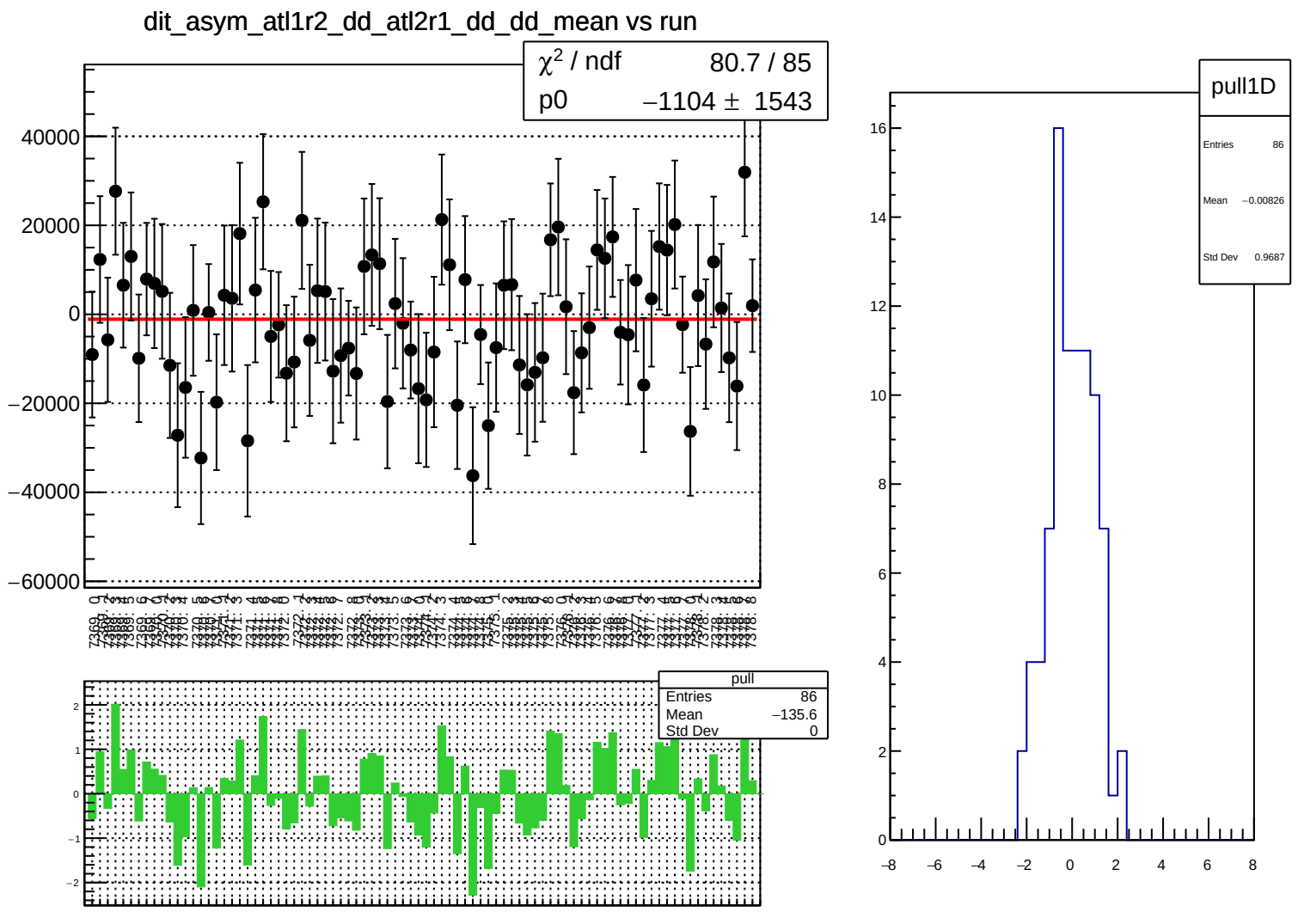

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.29 / 85
p0 −1509 ± 1338
pull
Entries 86
Mean −420
Std Dev 0
pull1D
Entries 86
Mean −0.004553
Std Dev 0.8845

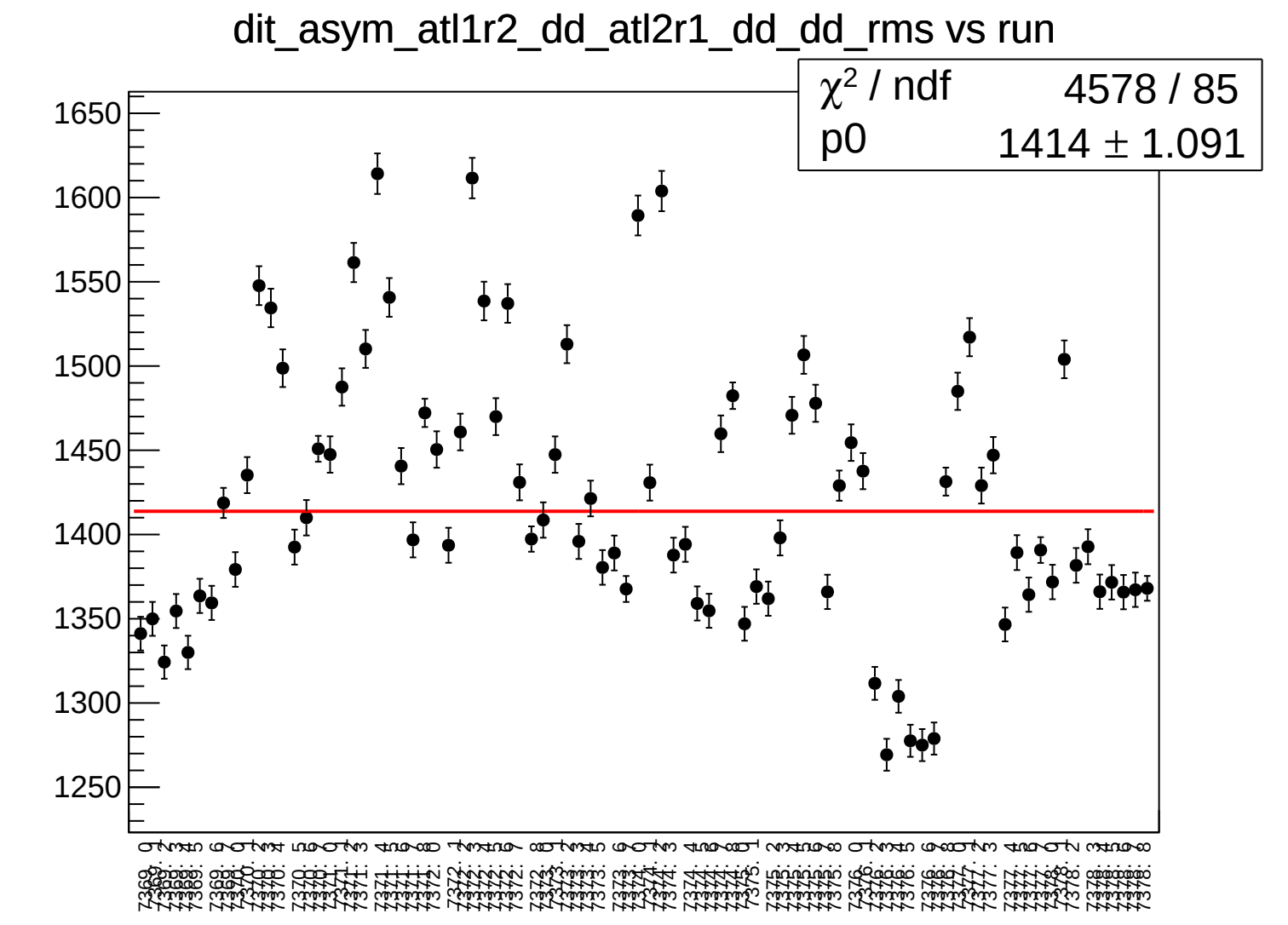

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 133.6 / 85
p0 1228 ± 0.9462
1280
1260
1240
1220
1200

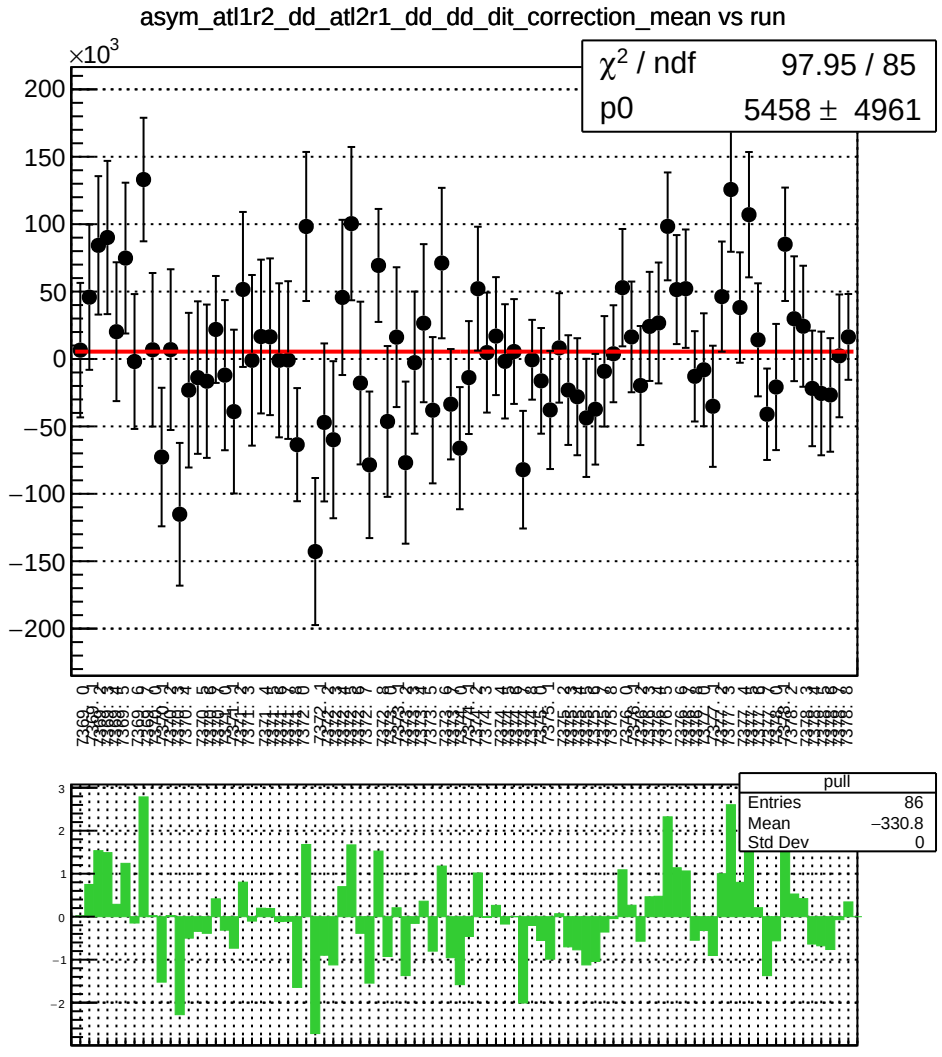

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.22 / 85
p0 5410 ± 4471
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −166.6
Std Dev 0
3
2
1
0
−1
−2
−3

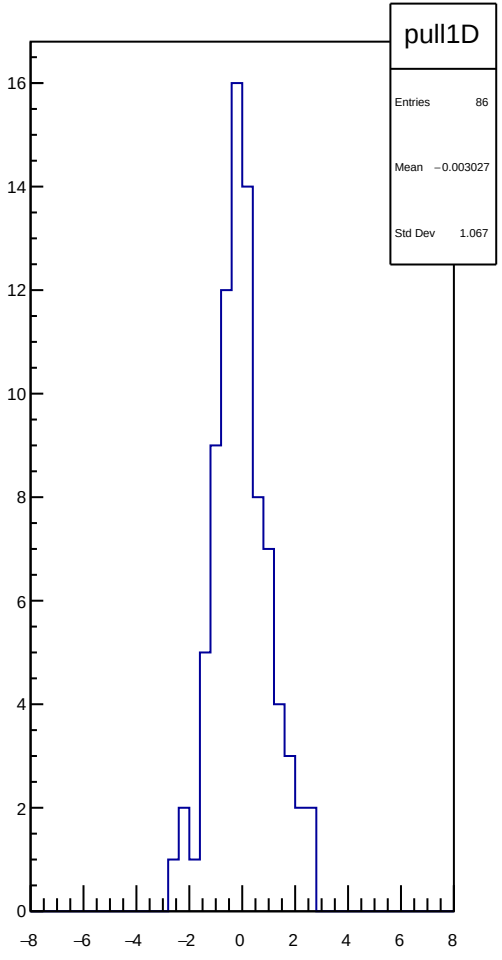

pull1D
Entries 86
Mean −0.006206
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

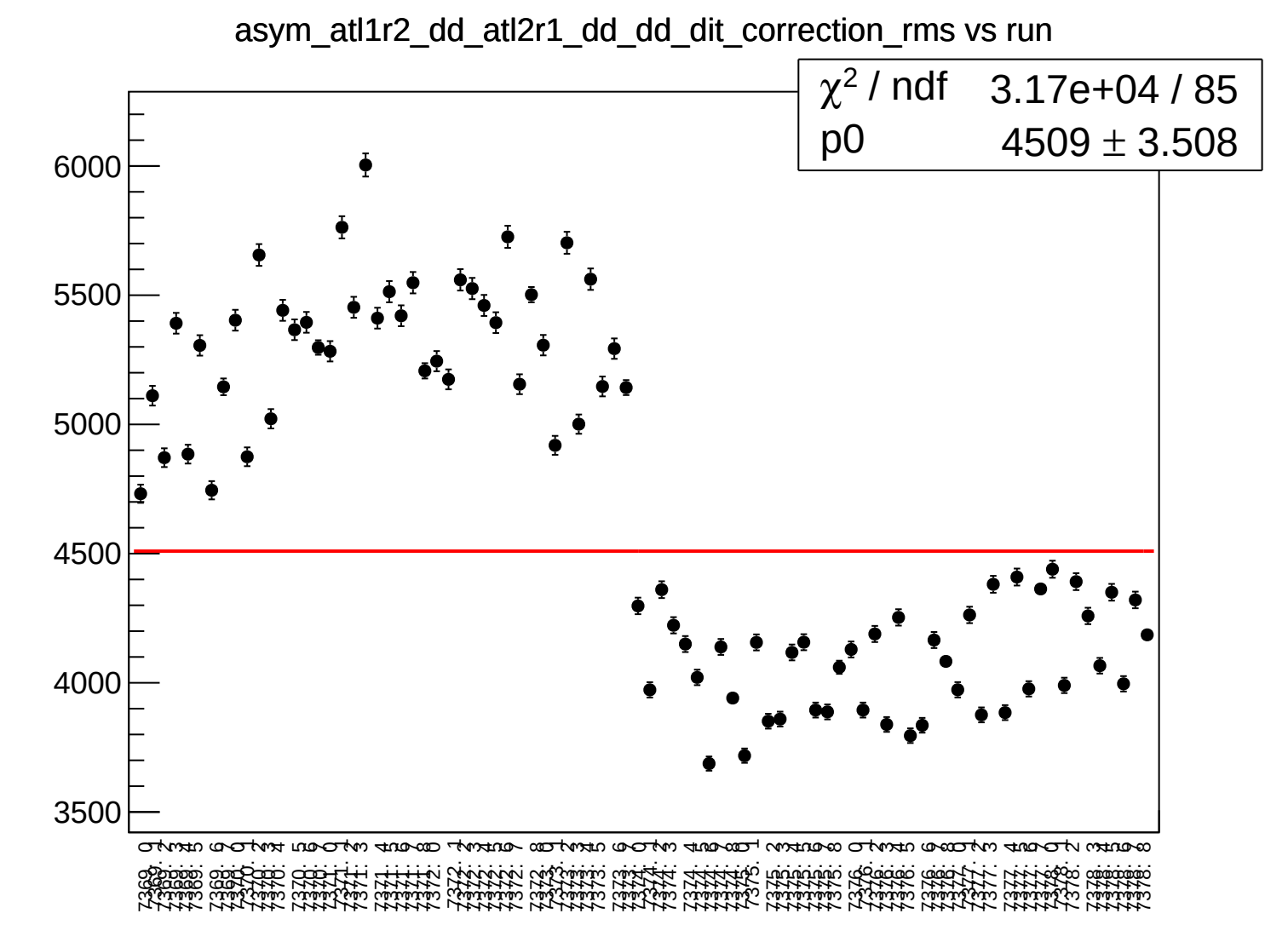

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.371e+04 / 85
p0 4062 ± 3.162
5500
5000
4500
4000
3500

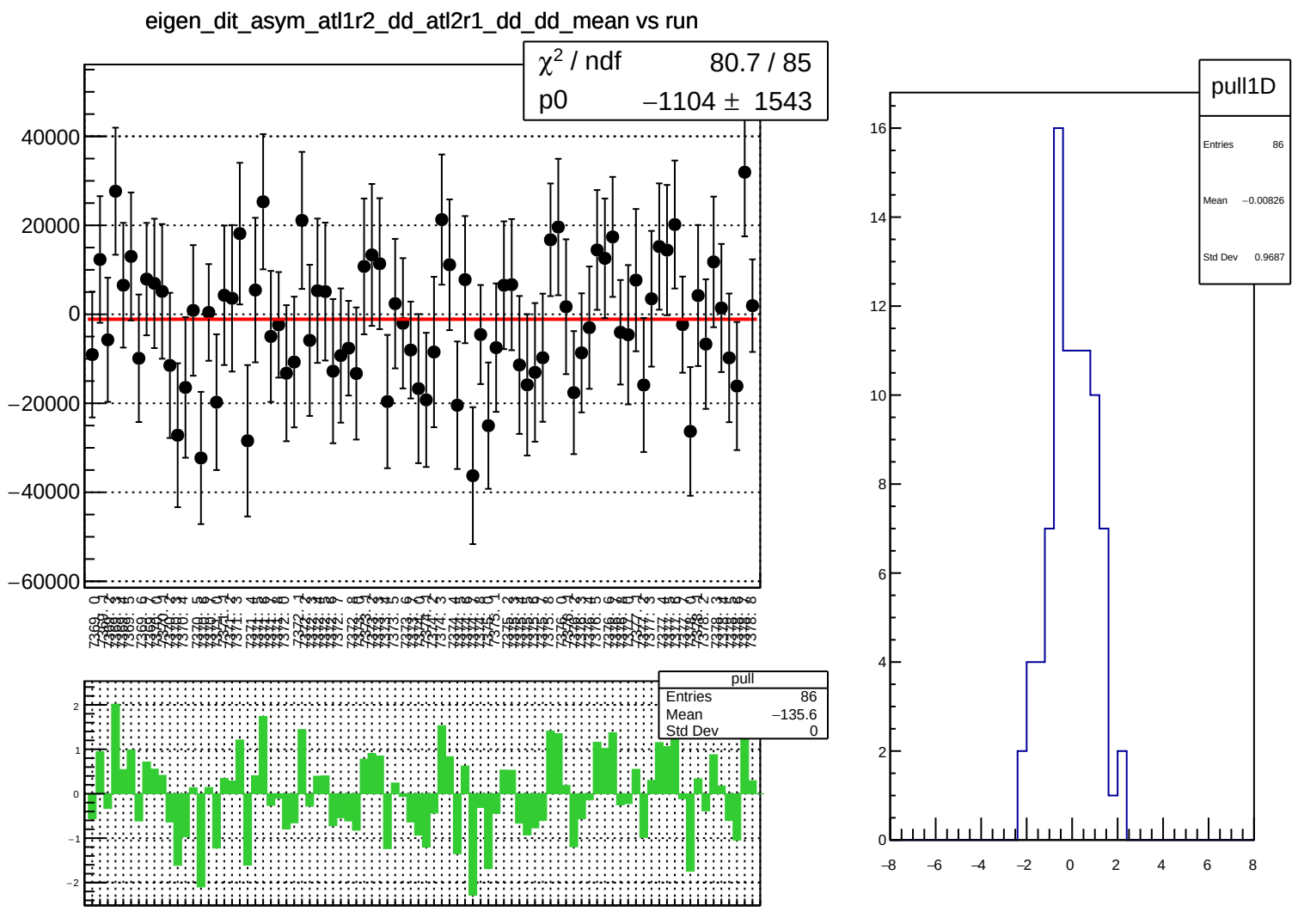

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 80.7 / 85
p0 −1104 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −135.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.00826
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

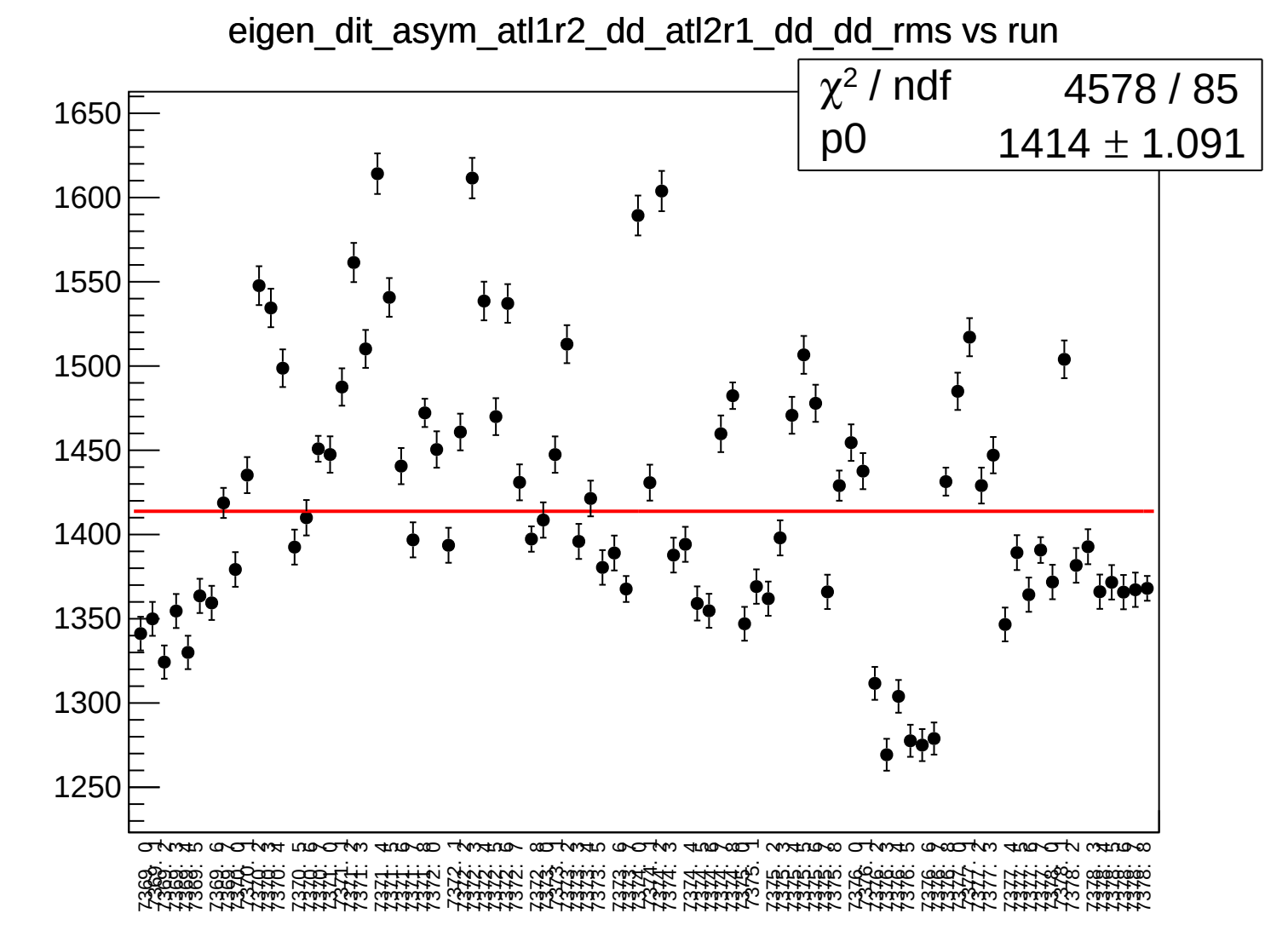

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4578 / 85
p0 1414 ± 1.091
1650
1600
1550
1500
1450
1400
1350
1300
1250

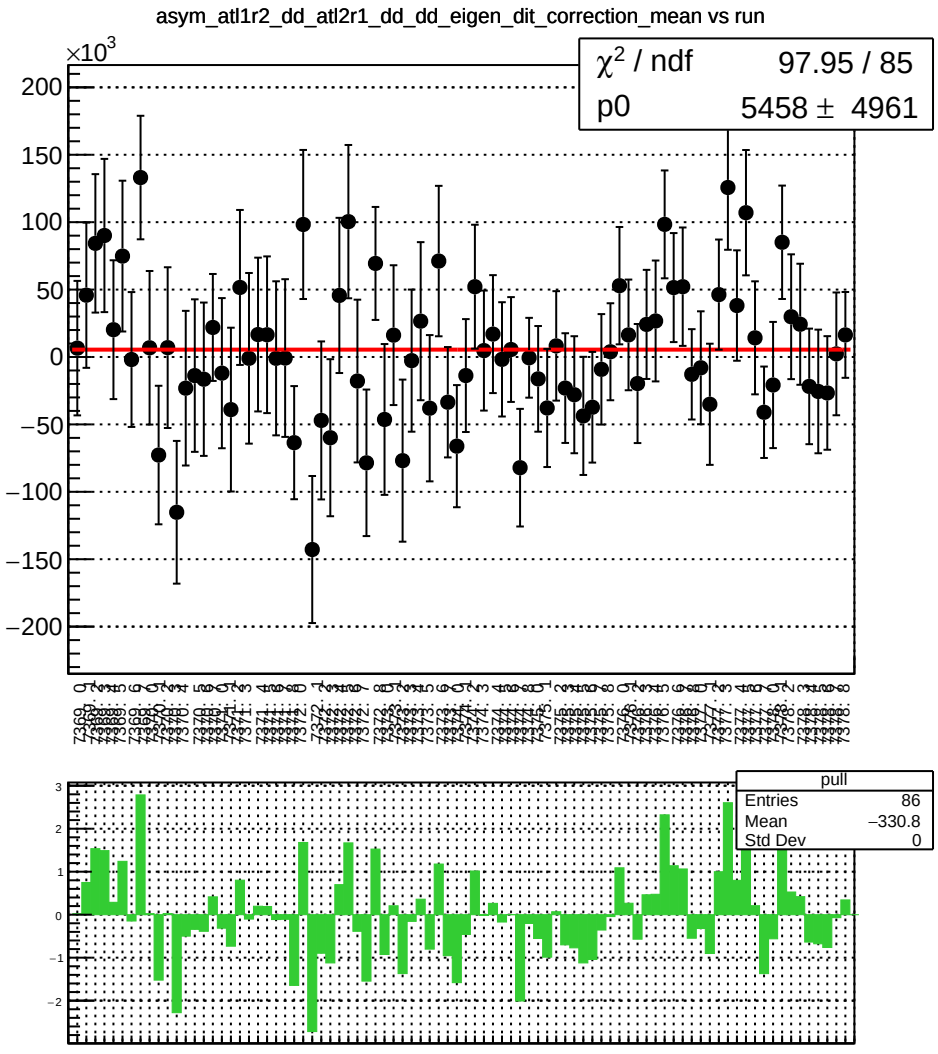

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.95 / 85
p0 5458 ± 4961
pull
Entries 86
Mean −330.8
Std Dev 0

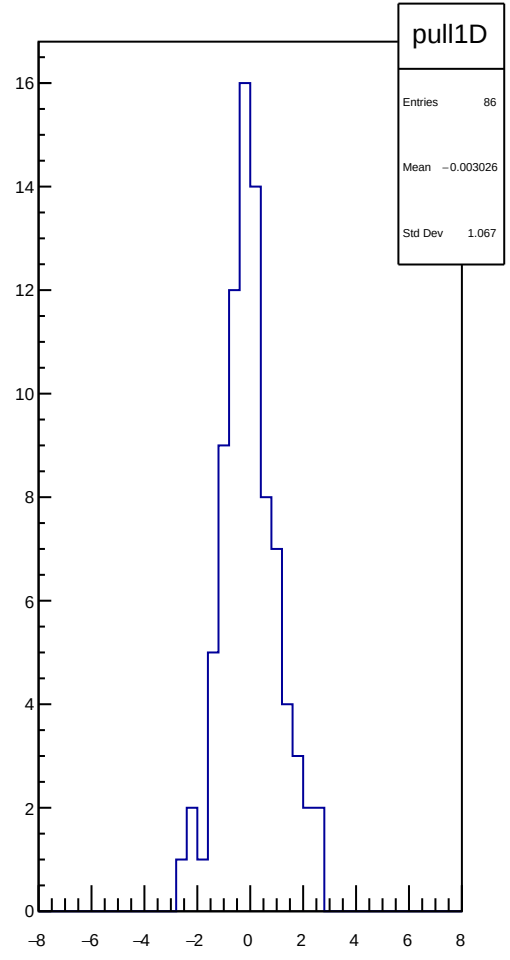

pull1D
Entries 86
Mean −0.003027
Std Dev 1.067

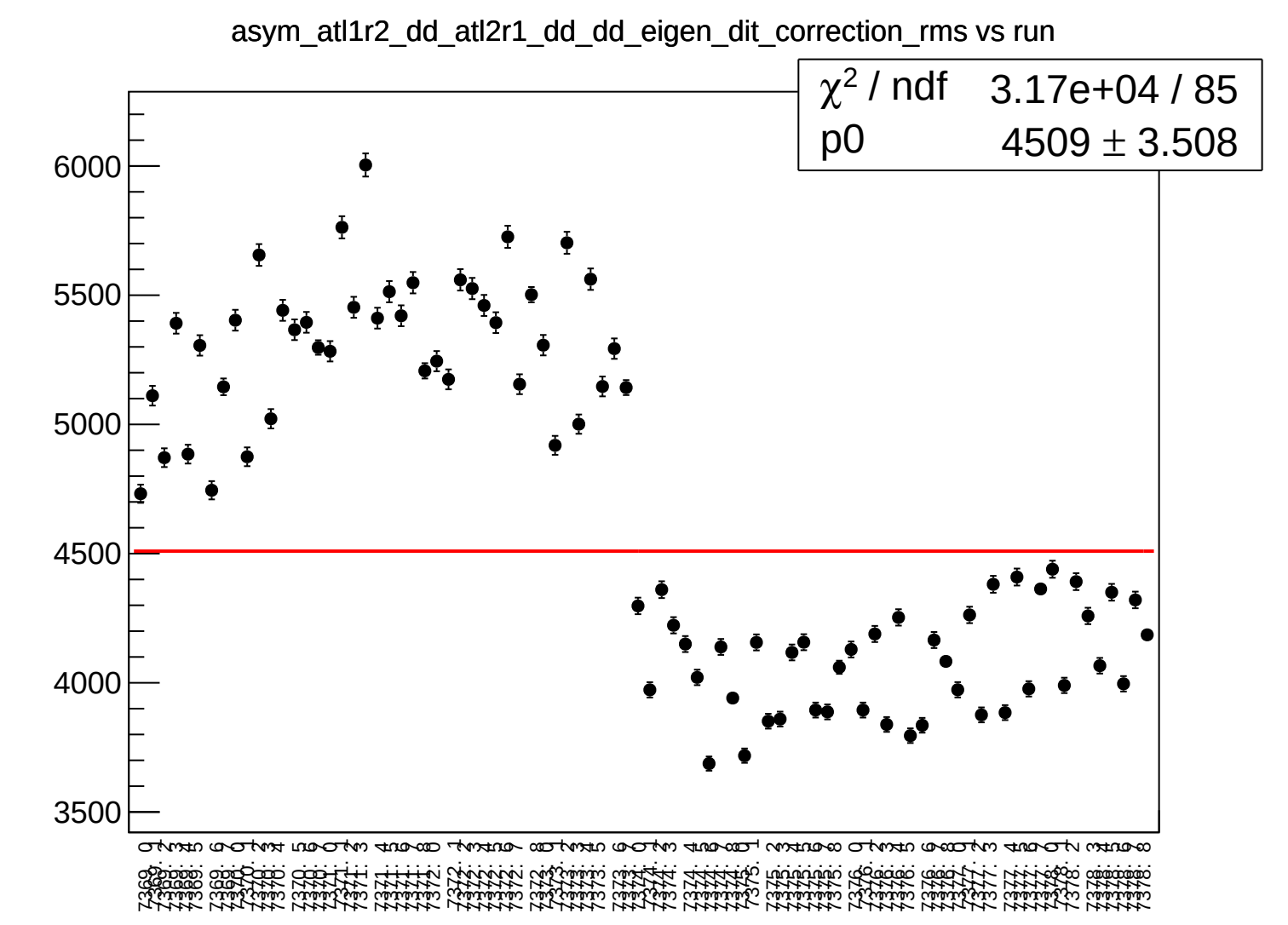

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3.17e+04 / 85
p0 4509 ± 3.508
6000
5500
5000
4500
4000
3500

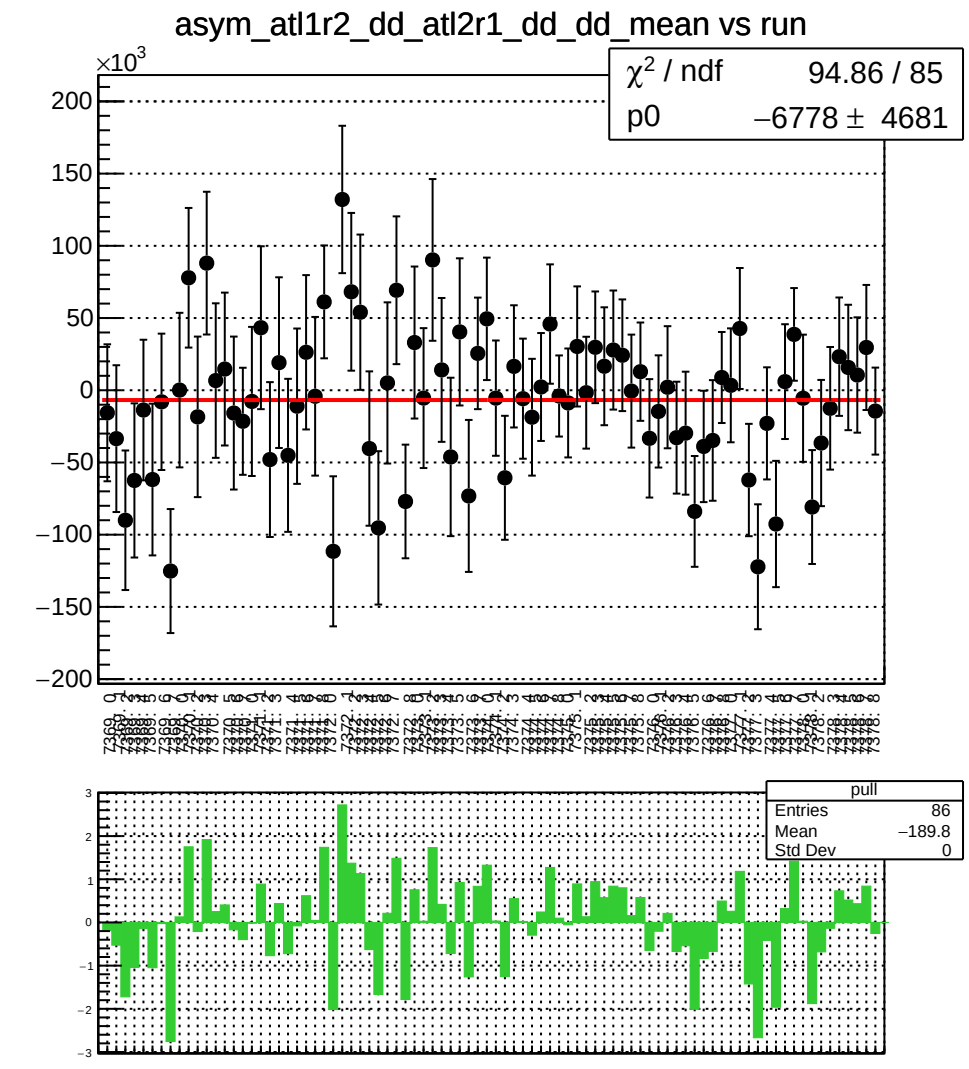

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 80.7 / 85
p0 −1104 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −135.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.00826
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

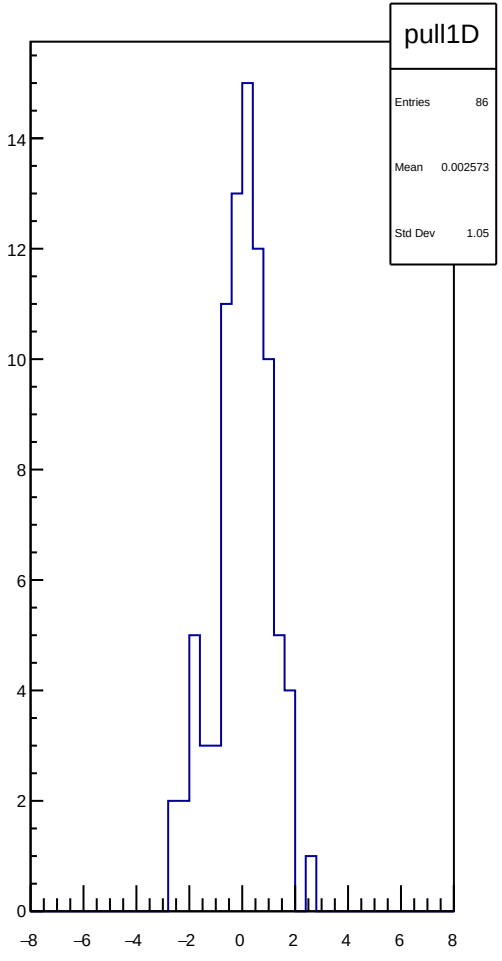

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4578 / 85
p0 1414 ± 1.091
1650
1600
1550
1500
1450
1400
1350
1300
1250

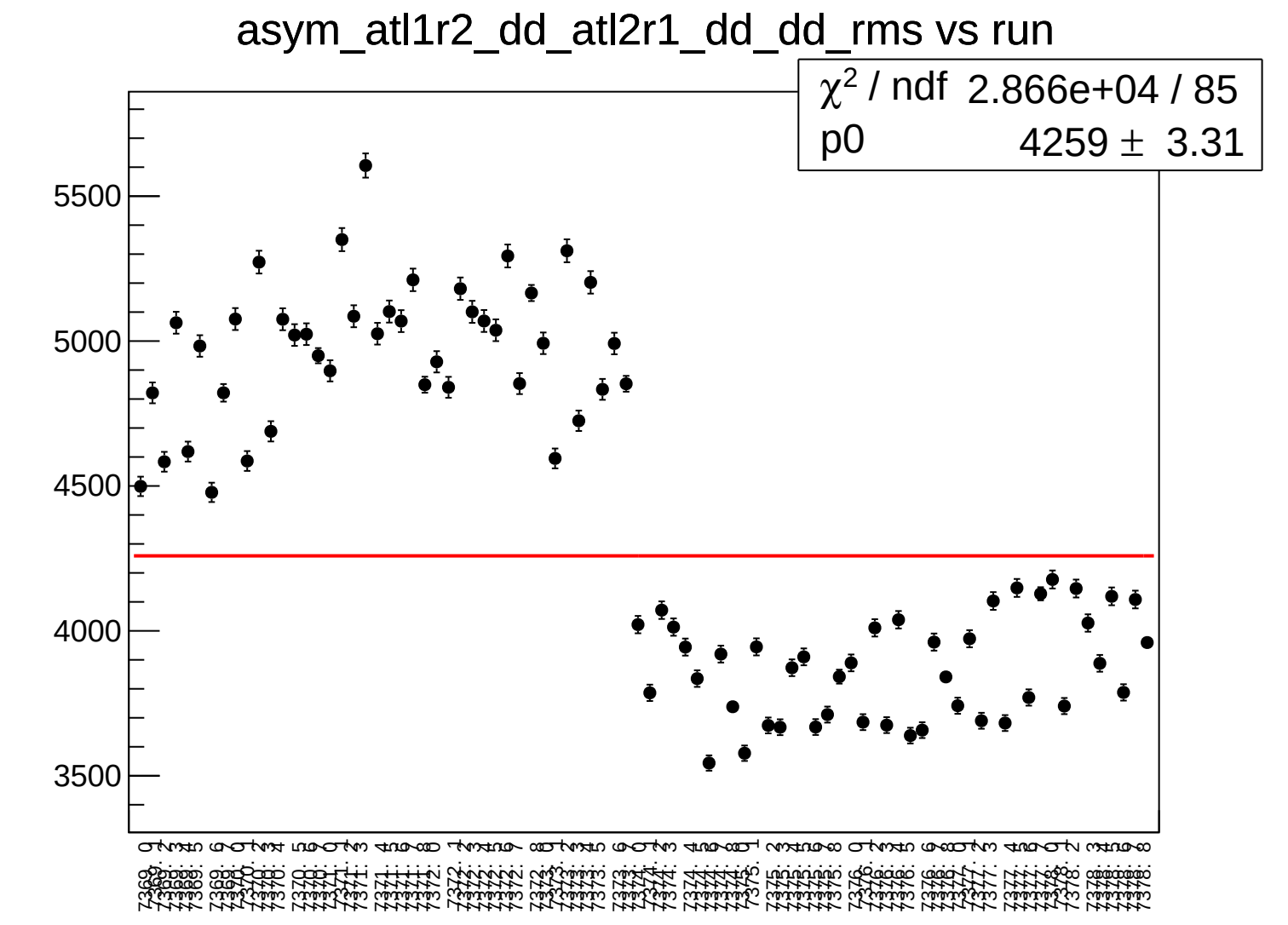

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.95 / 85
p0 5458 ± 4961
pull
Entries 86
Mean −330.8
Std Dev 0

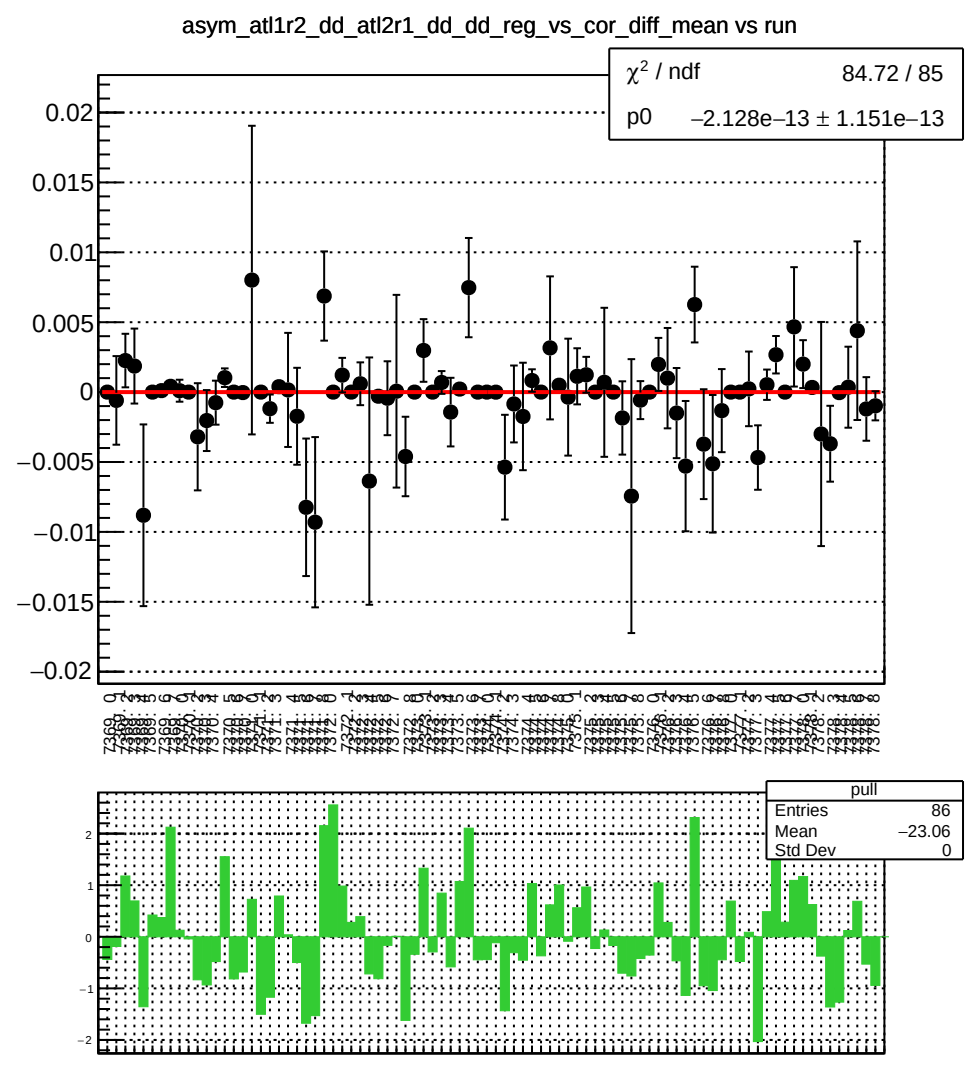

pull1D
Entries 86
Mean −0.003026
Std Dev 1.067

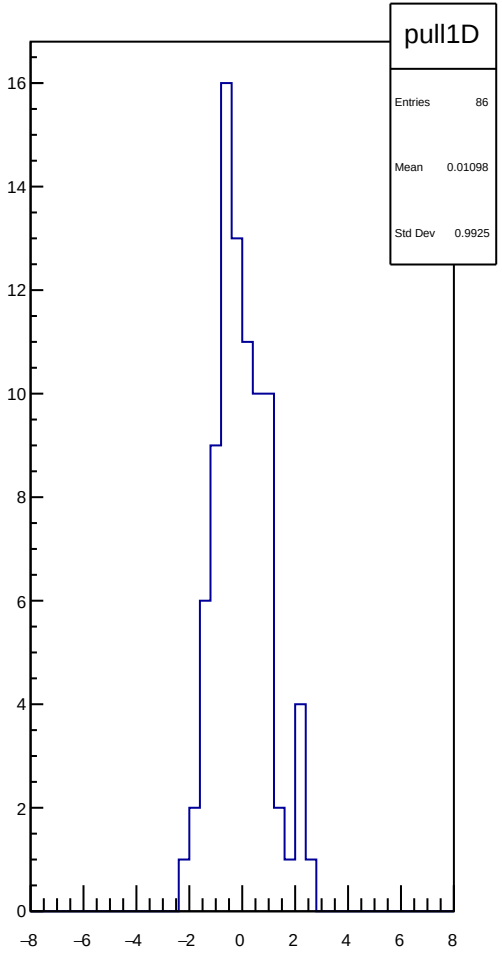

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.17e+04 / 85
p0 4509 ± 3.508
6000
5500
5000
4500
4000
3500

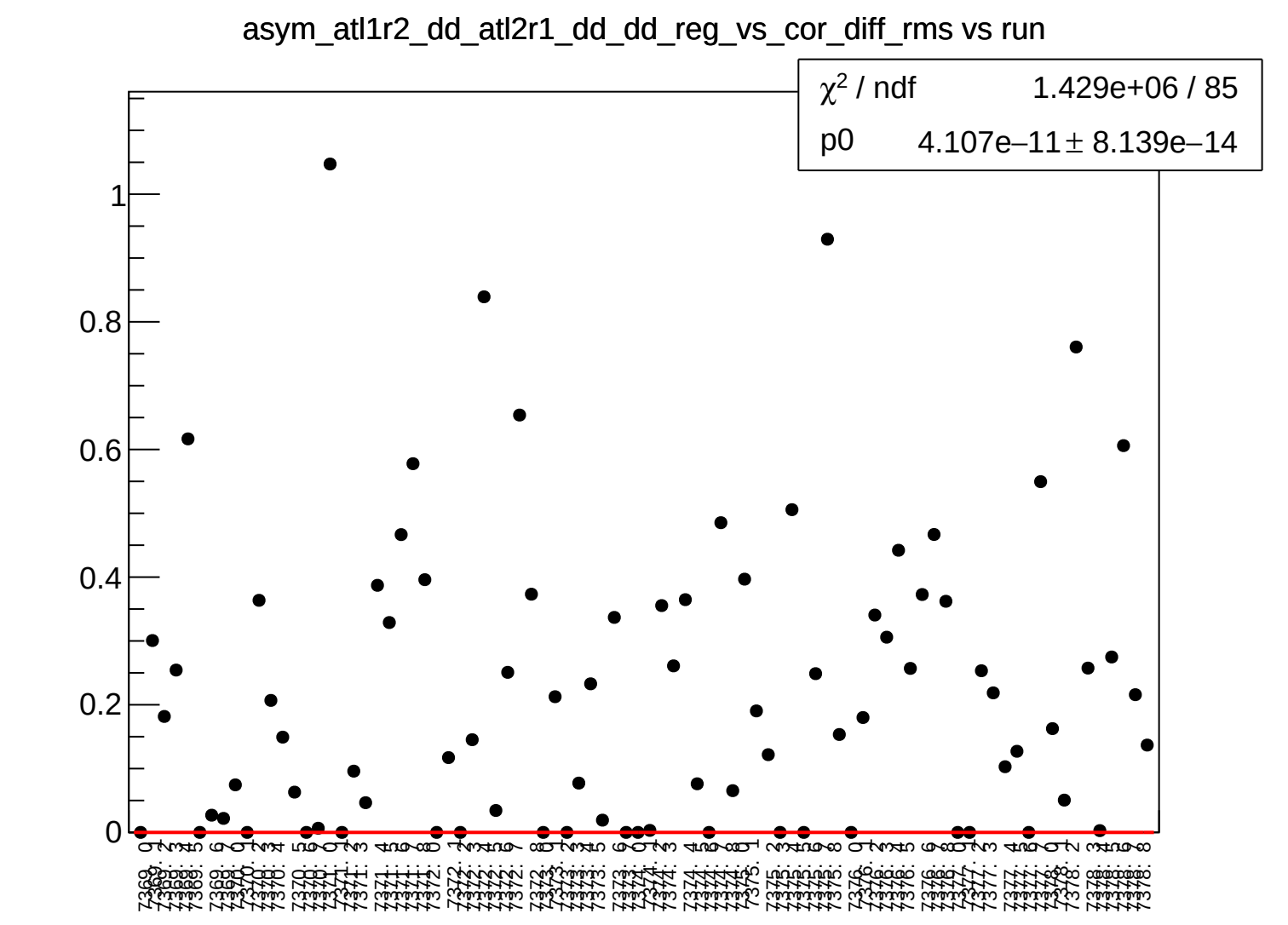

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 94.86 / 85
p0 −6778 ± 4681
pull
Entries 86
Mean −189.8
Std Dev 0

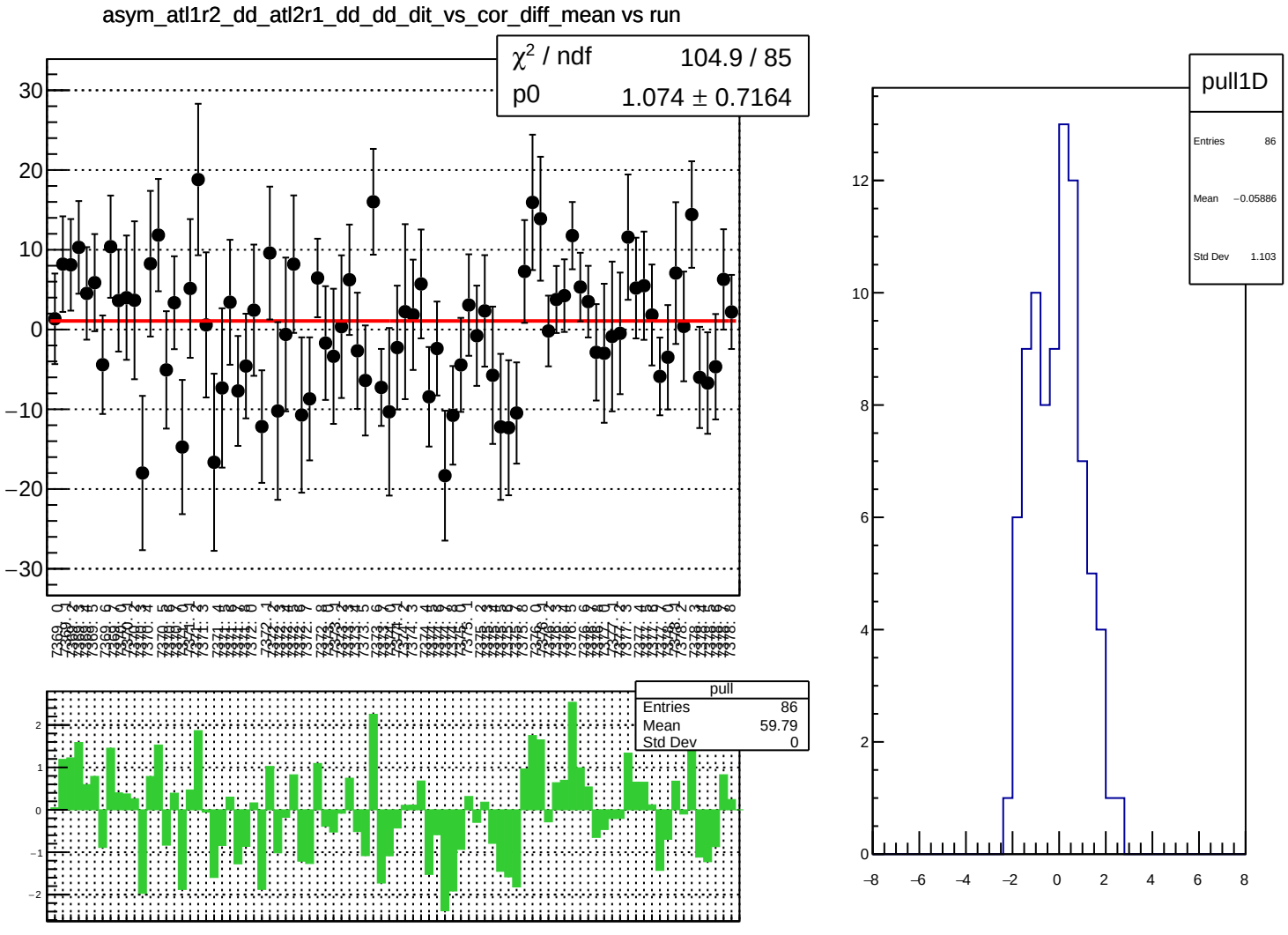

pull1D
Entries 86
Mean 0.002573
Std Dev 1.05

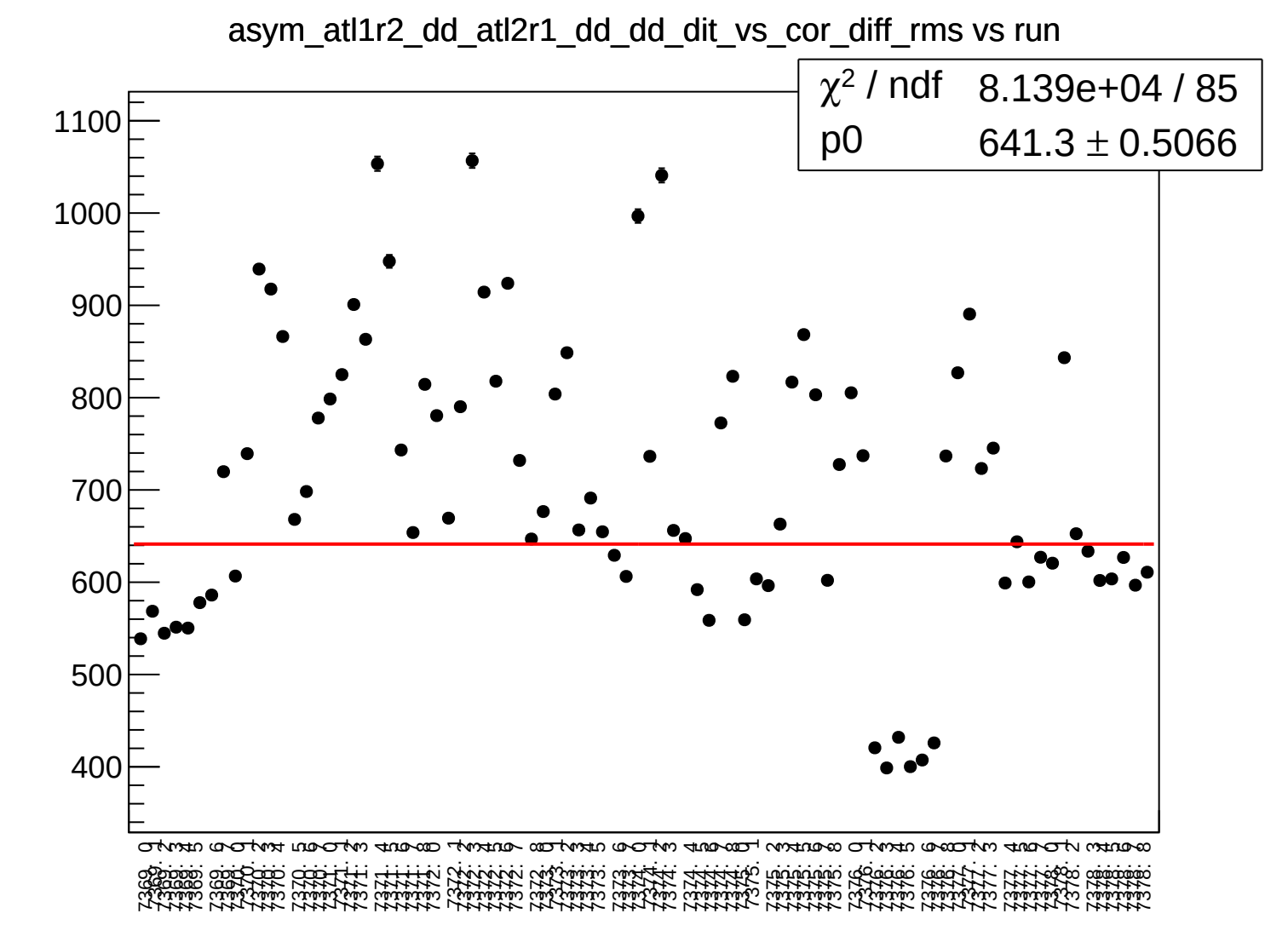

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2.866e+04 / 85
p0 4259 ± 3.31
5500
5000
4500
4000
3500

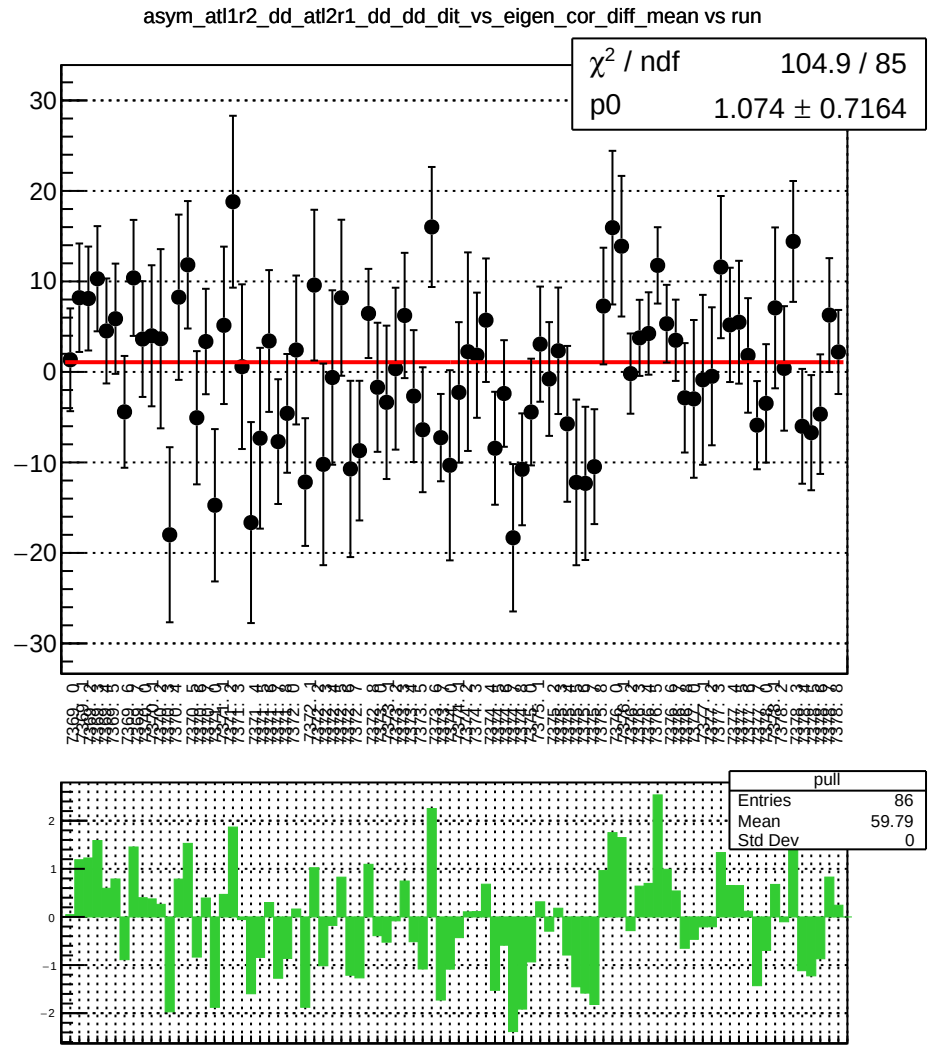

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.72 / 85
p0 −2.128e−13 ± 1.151e−13
pull
Entries 86
Mean −23.06
Std Dev 0

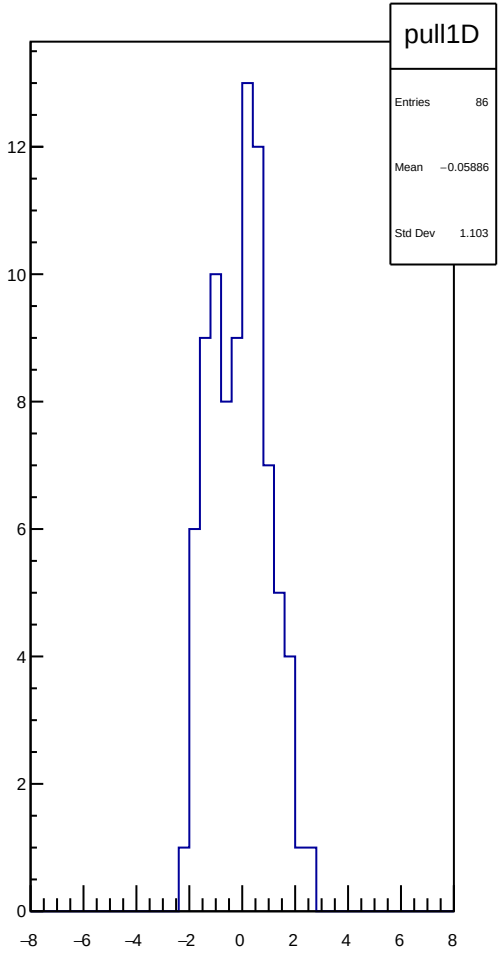

pull1D
Entries 86
Mean 0.01098
Std Dev 0.9925

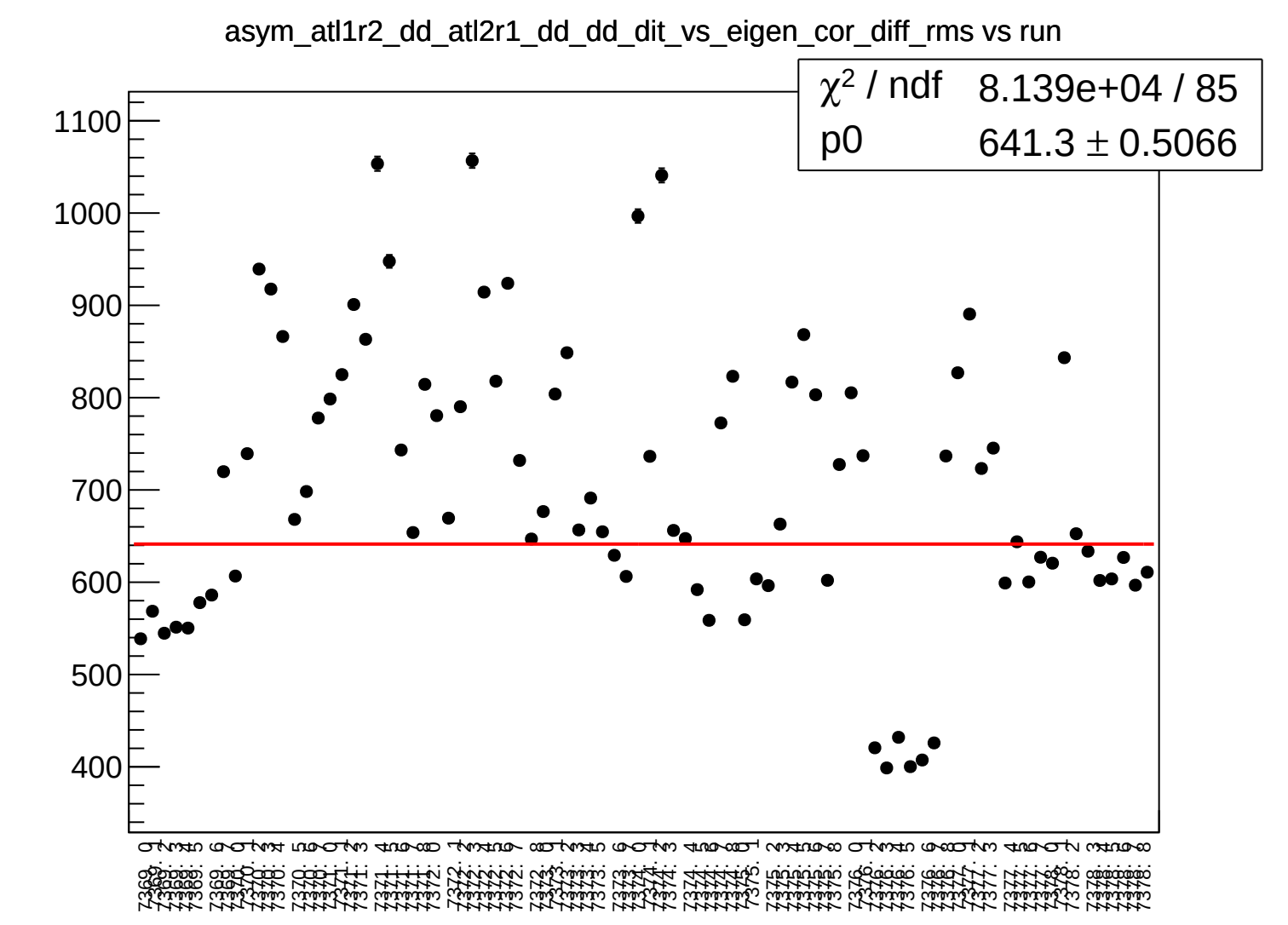

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.429e+06 / 85
p0 4.107e−11 ± 8.139e−14
0
0.2
0.4
0.6
0.8
1

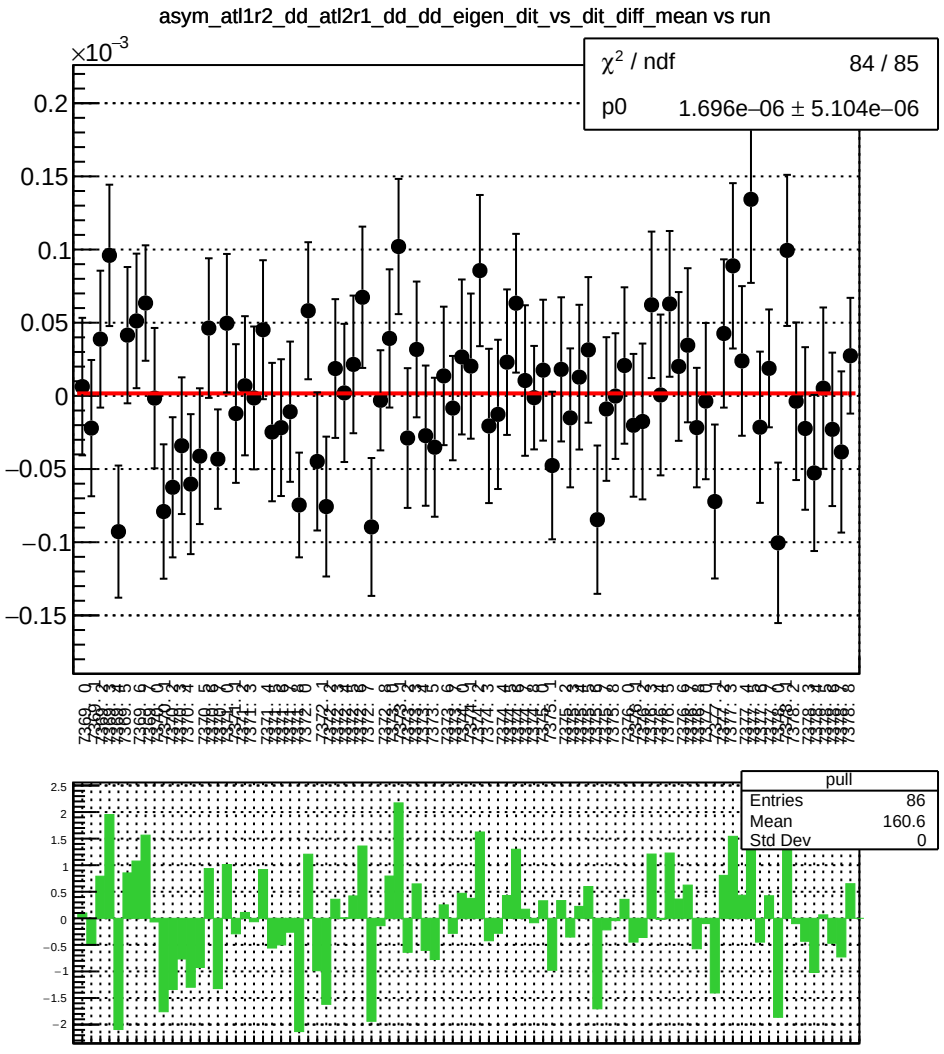

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 85
p0 1.074 ± 0.7164
pull
Entries 86
Mean 59.79
Std Dev 0
pull1D
Entries 86
Mean −0.05886
Std Dev 1.103

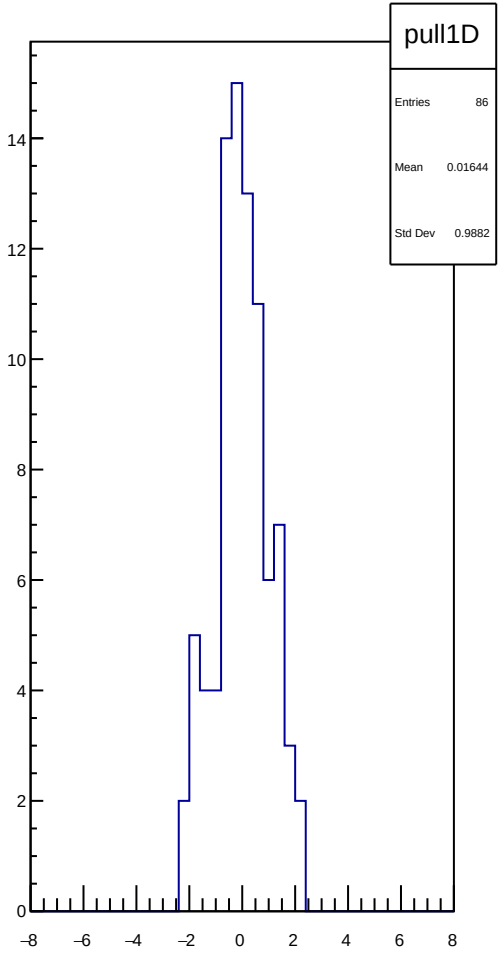

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400

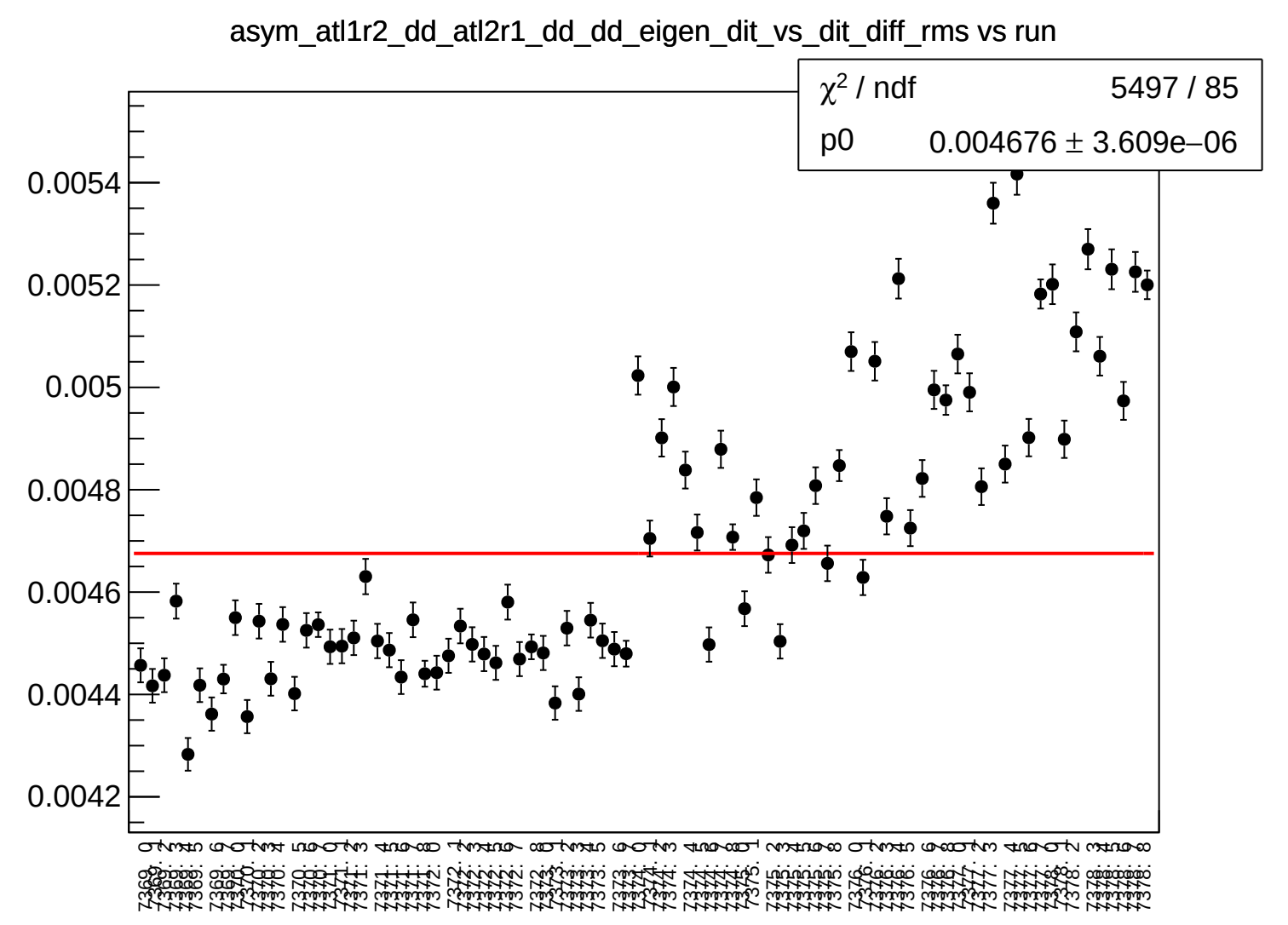

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 85
p0 1.074 ± 0.7164
pull
Entries 86
Mean 59.79
Std Dev 0

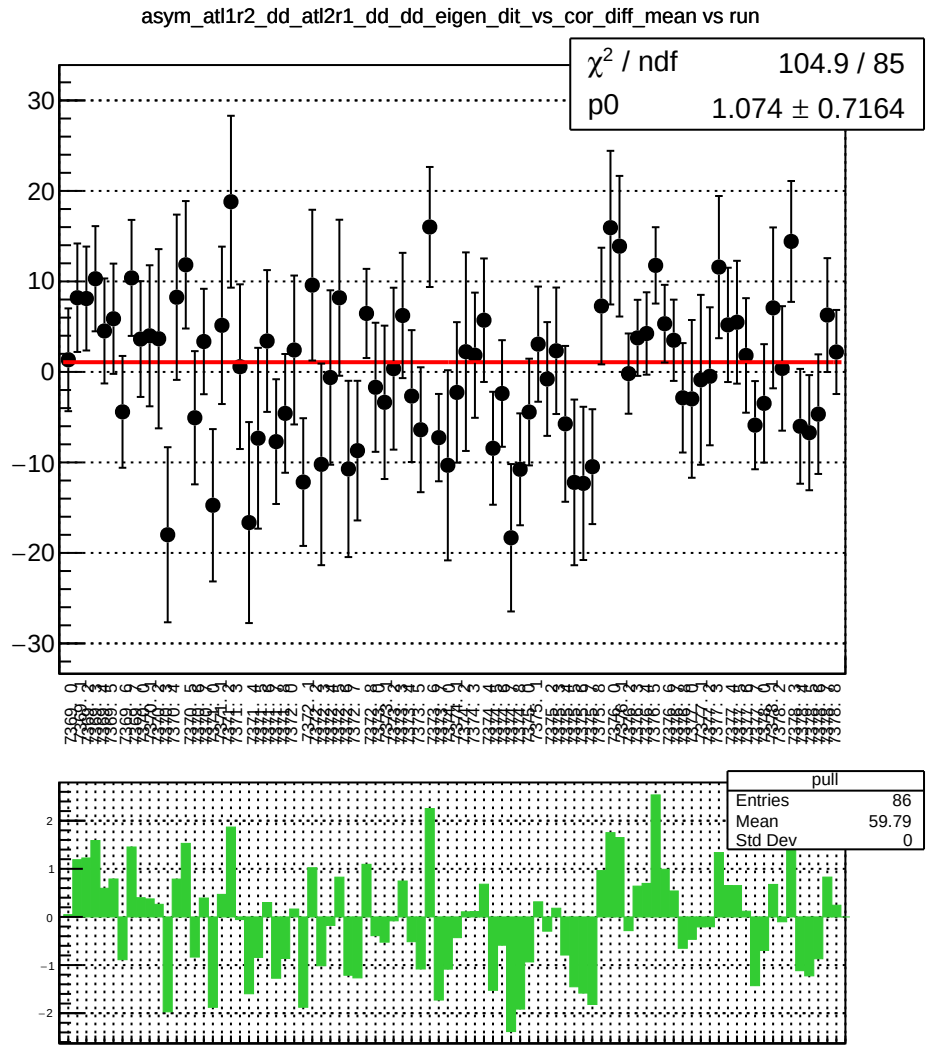

pull1D
Entries 86
Mean −0.05886
Std Dev 1.103

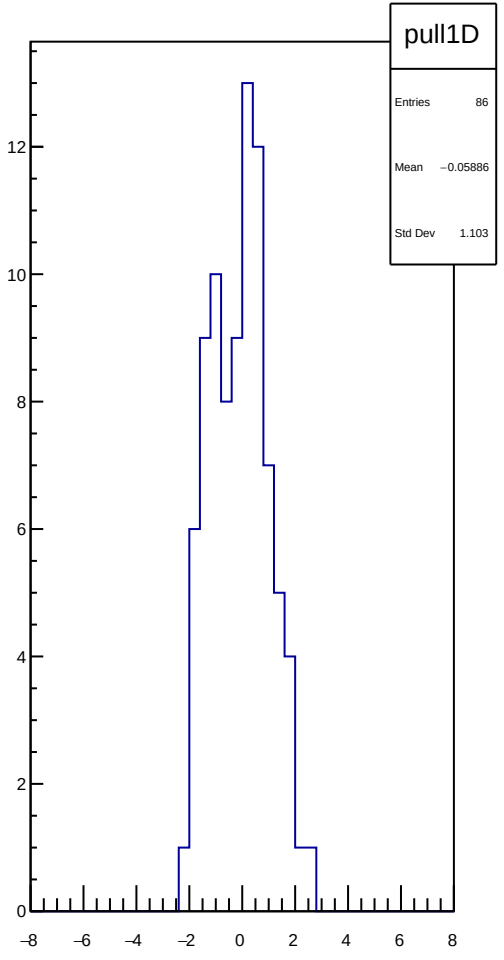

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400

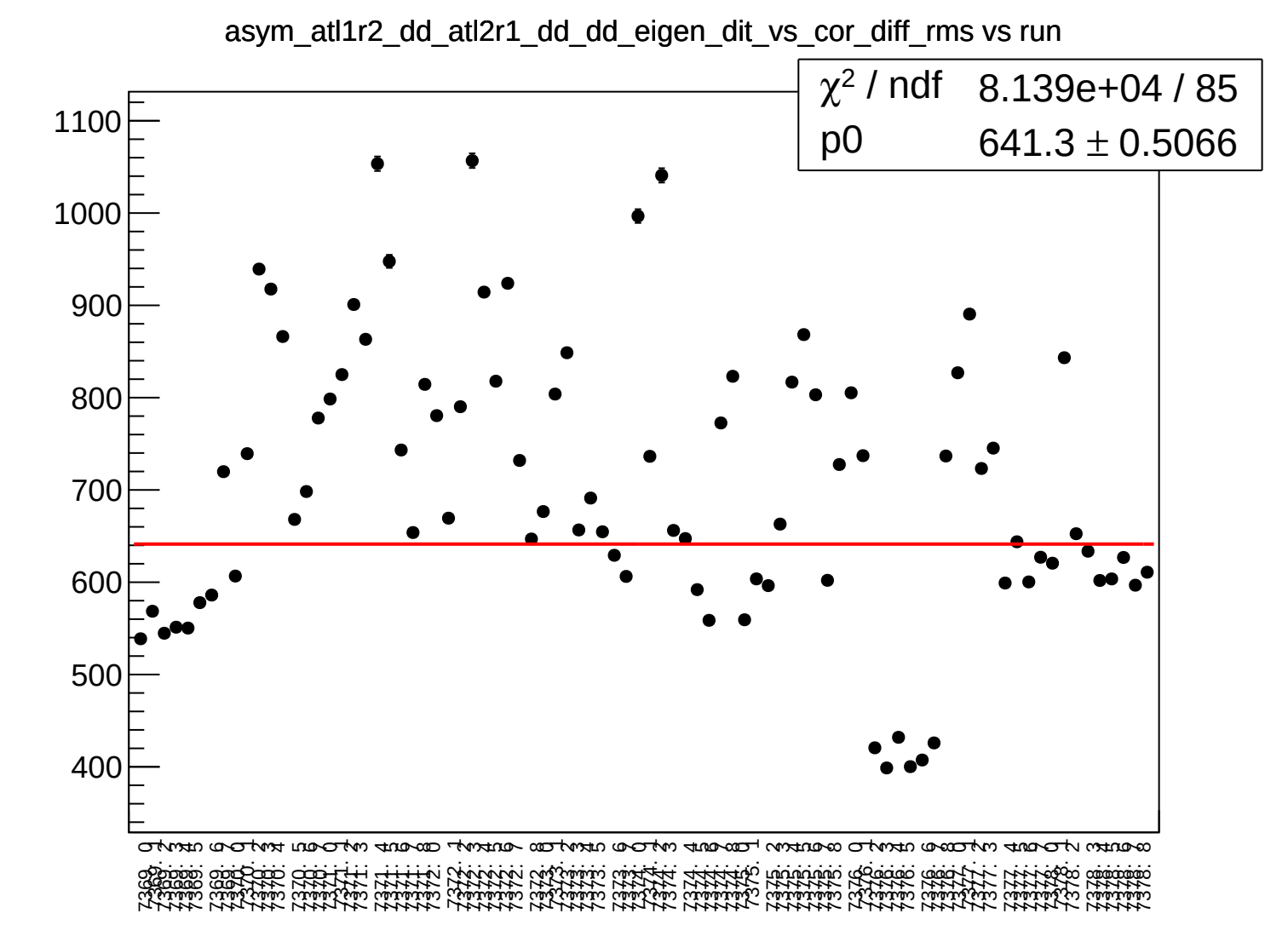

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84 / 85
p0 1.696e−06 ± 5.104e−06
pull
Entries 86
Mean 160.6
Std Dev 0

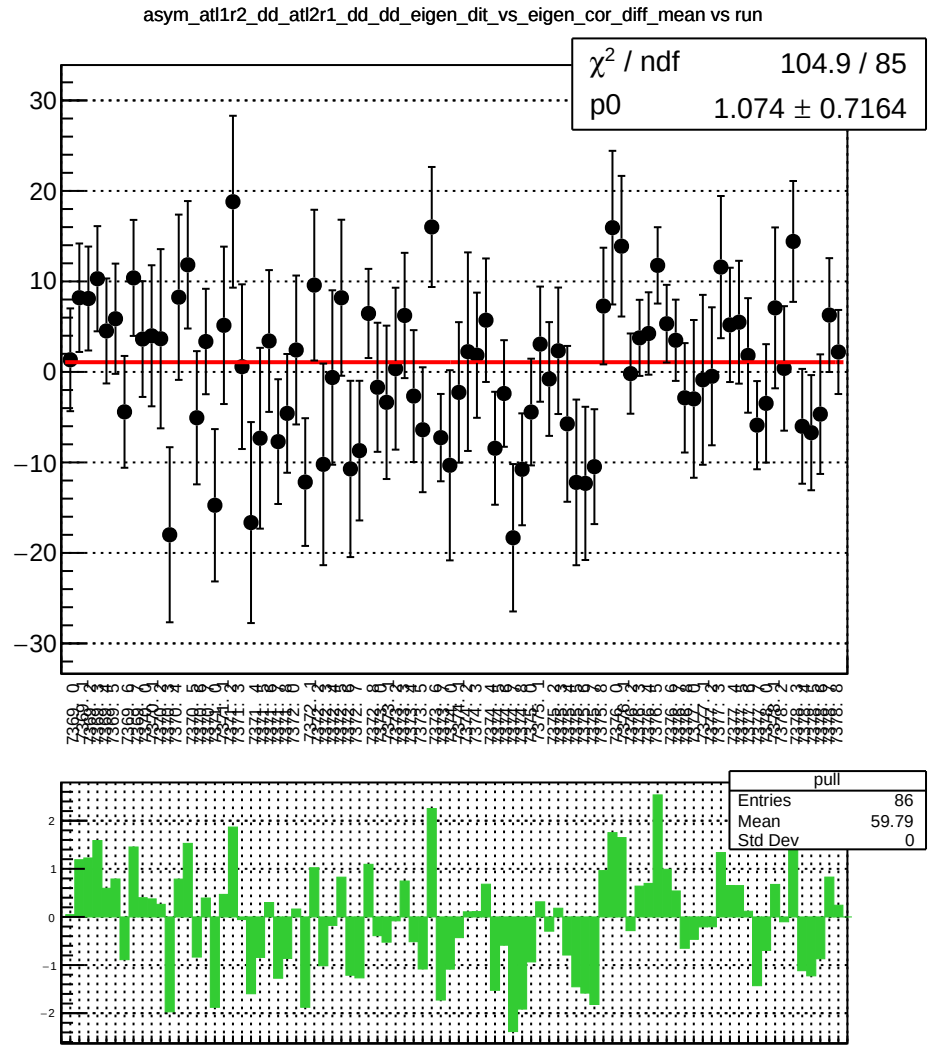

pull1D
Entries 86
Mean 0.01644
Std Dev 0.9882

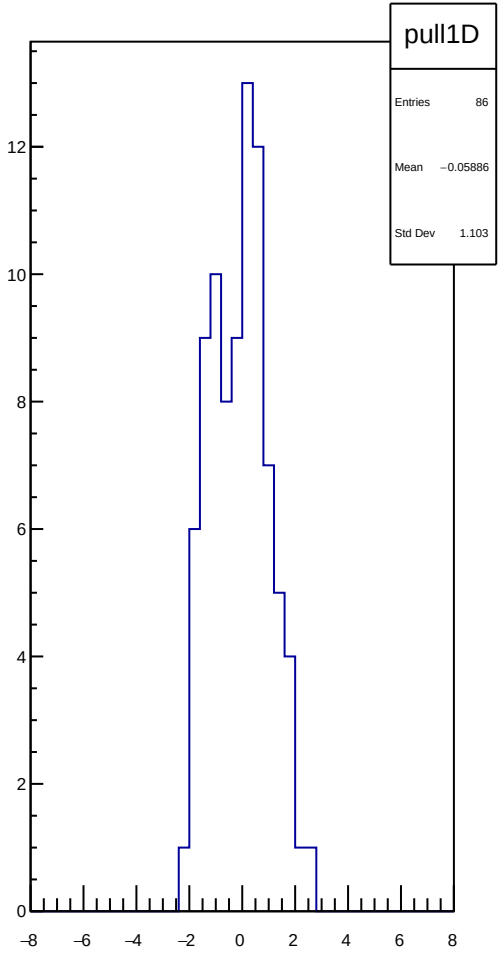

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5497 / 85
p0 0.004676 ± 3.609e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

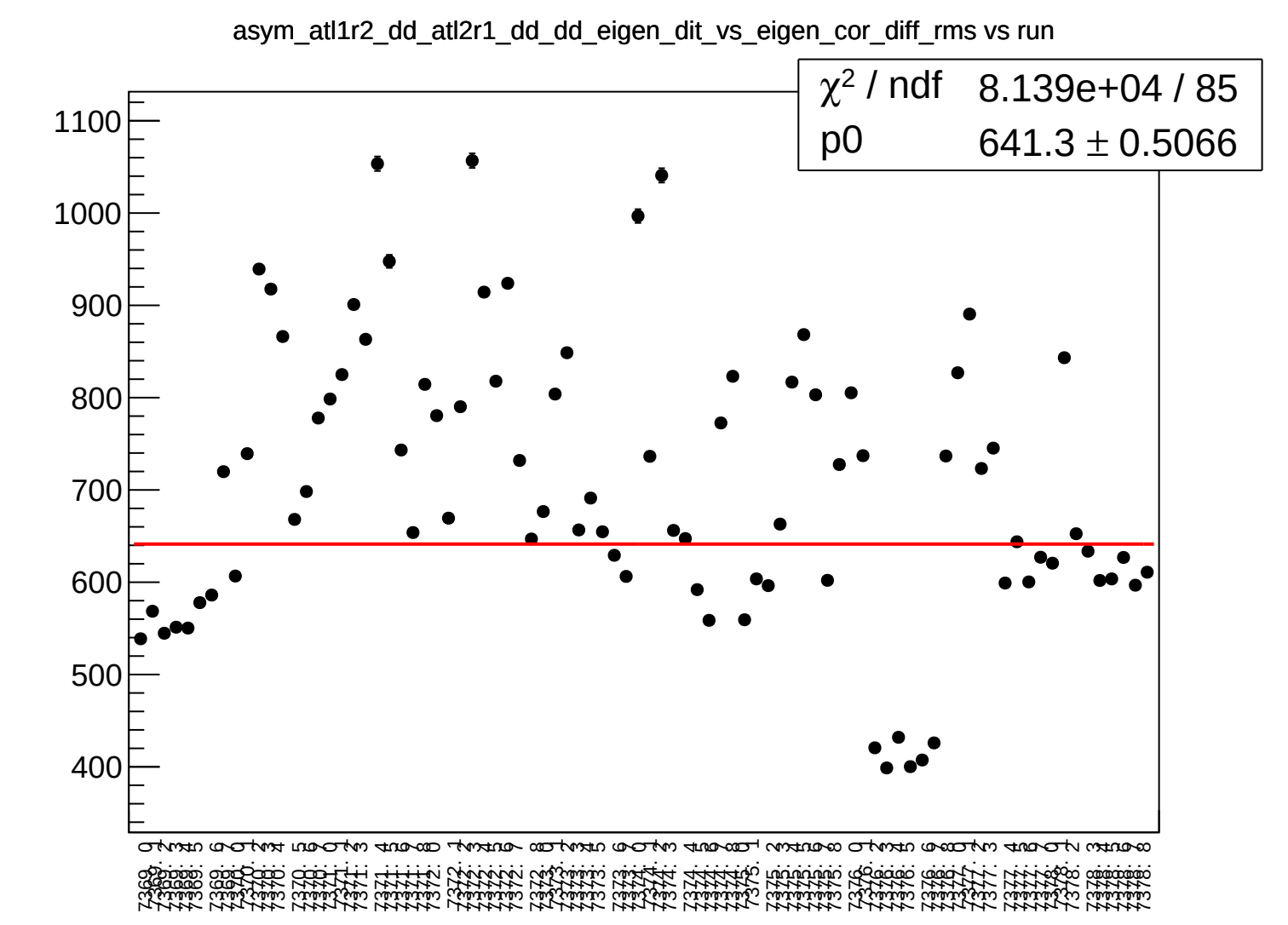

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 85
p0 1.074 ± 0.7164
pull
Entries 86
Mean 59.79
Std Dev 0

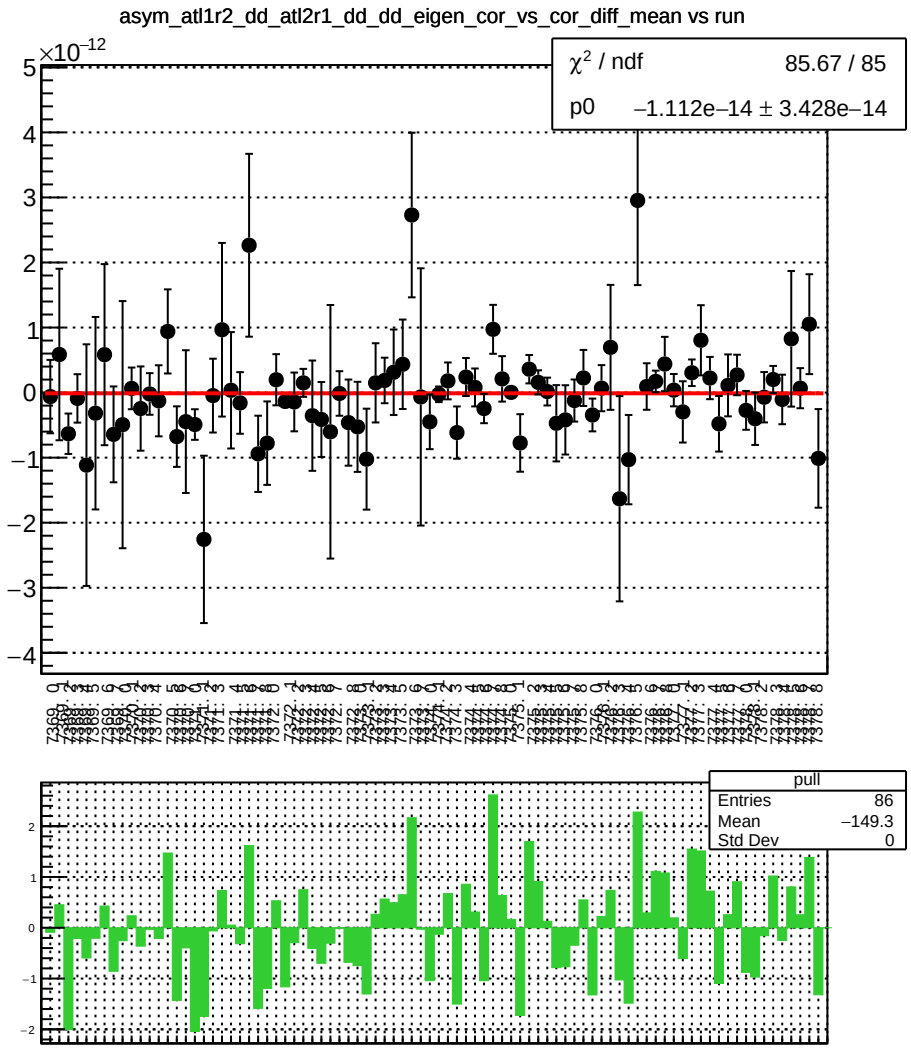

pull1D
Entries 86
Mean −0.05886
Std Dev 1.103

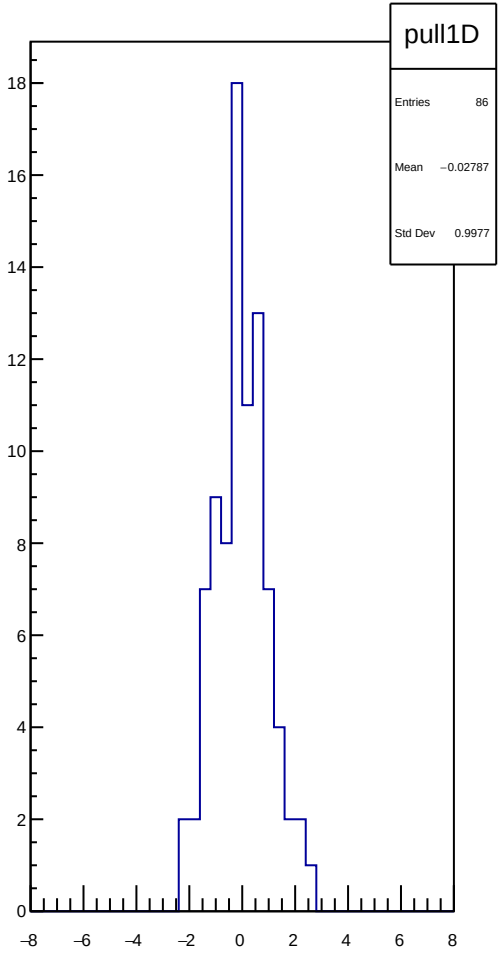

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400

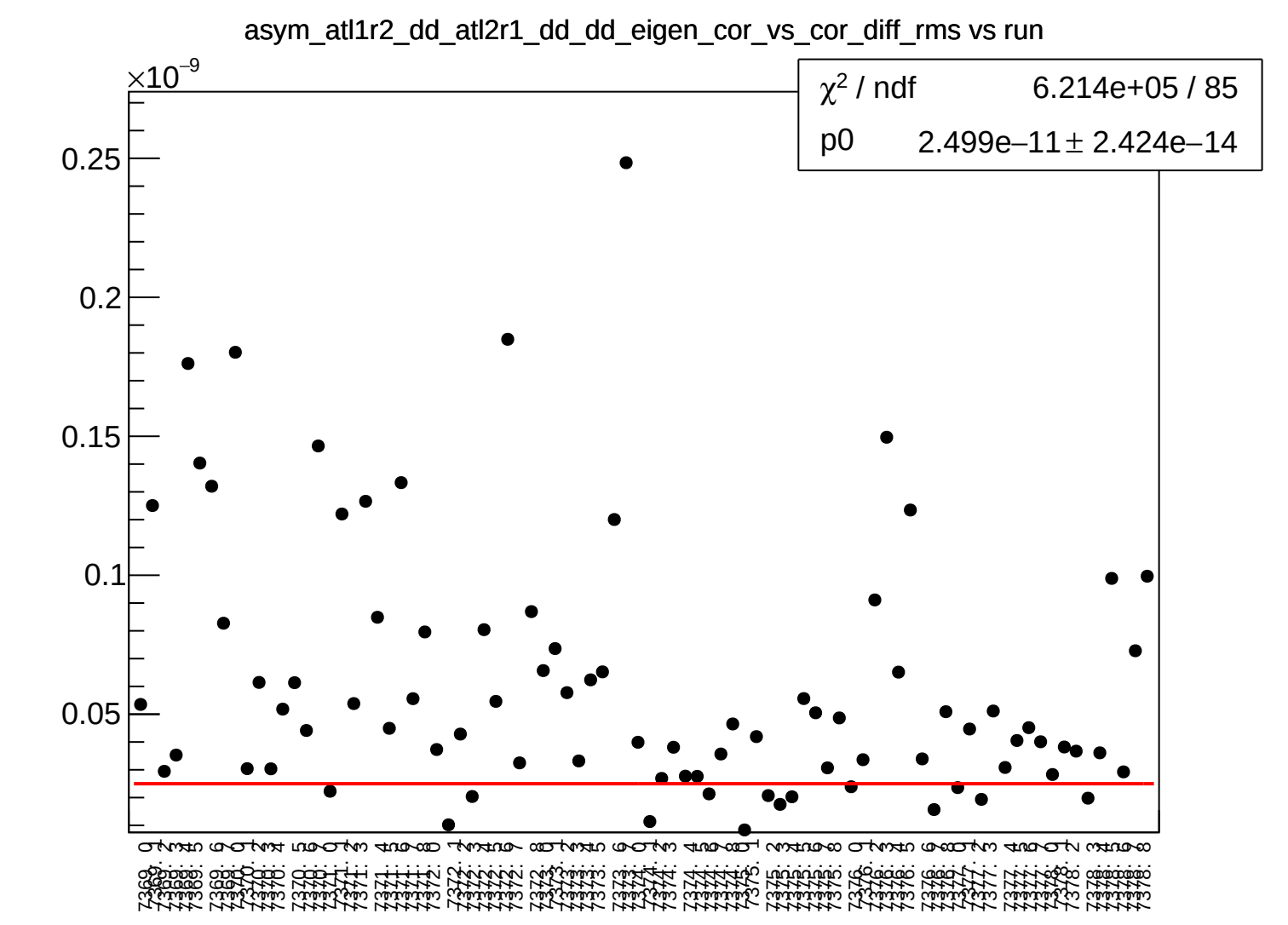

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 85
p0 1.074 ± 0.7164
pull
Entries 86
Mean 59.79
Std Dev 0

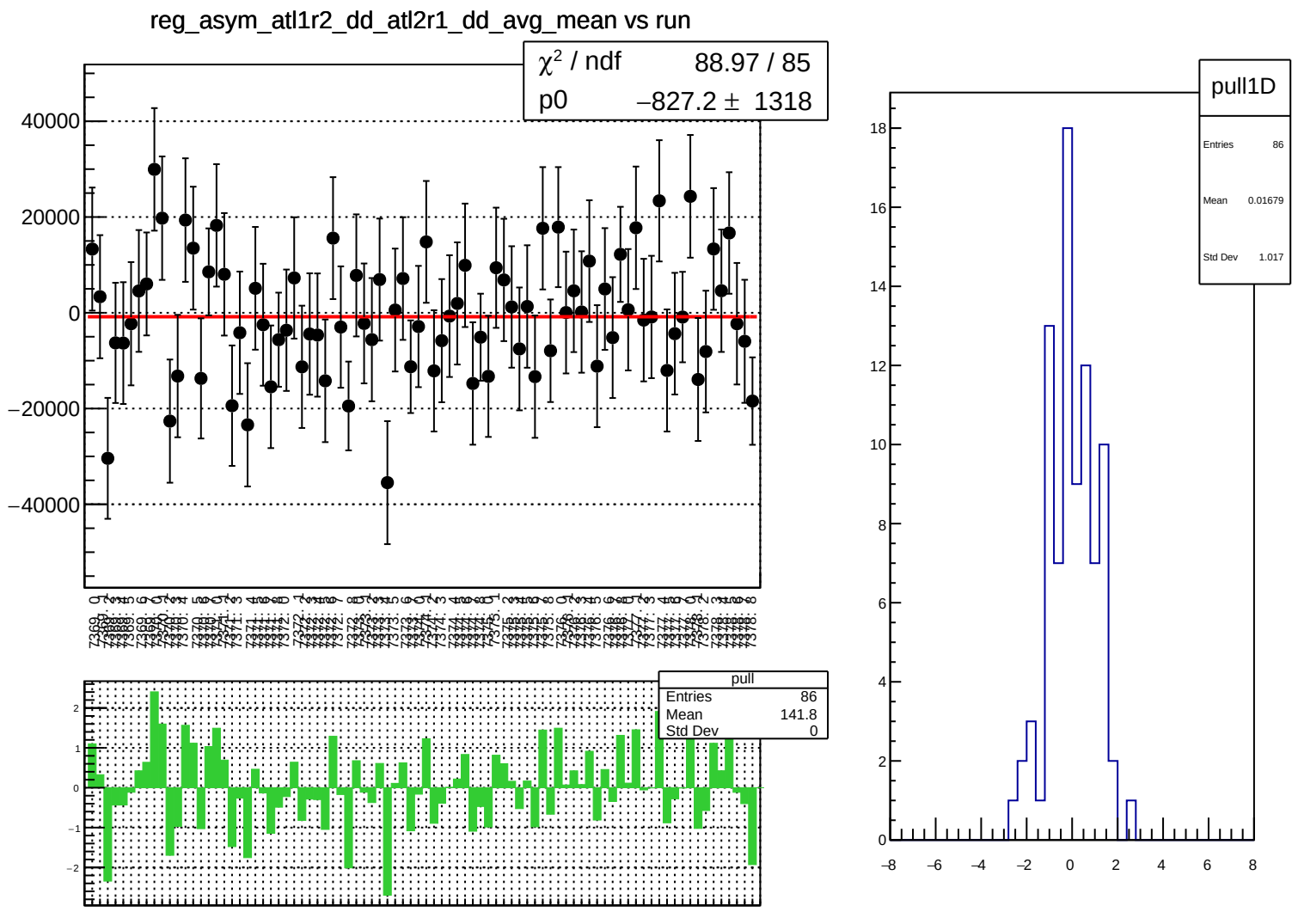

pull1D
Entries 86
Mean −0.05886
Std Dev 1.103

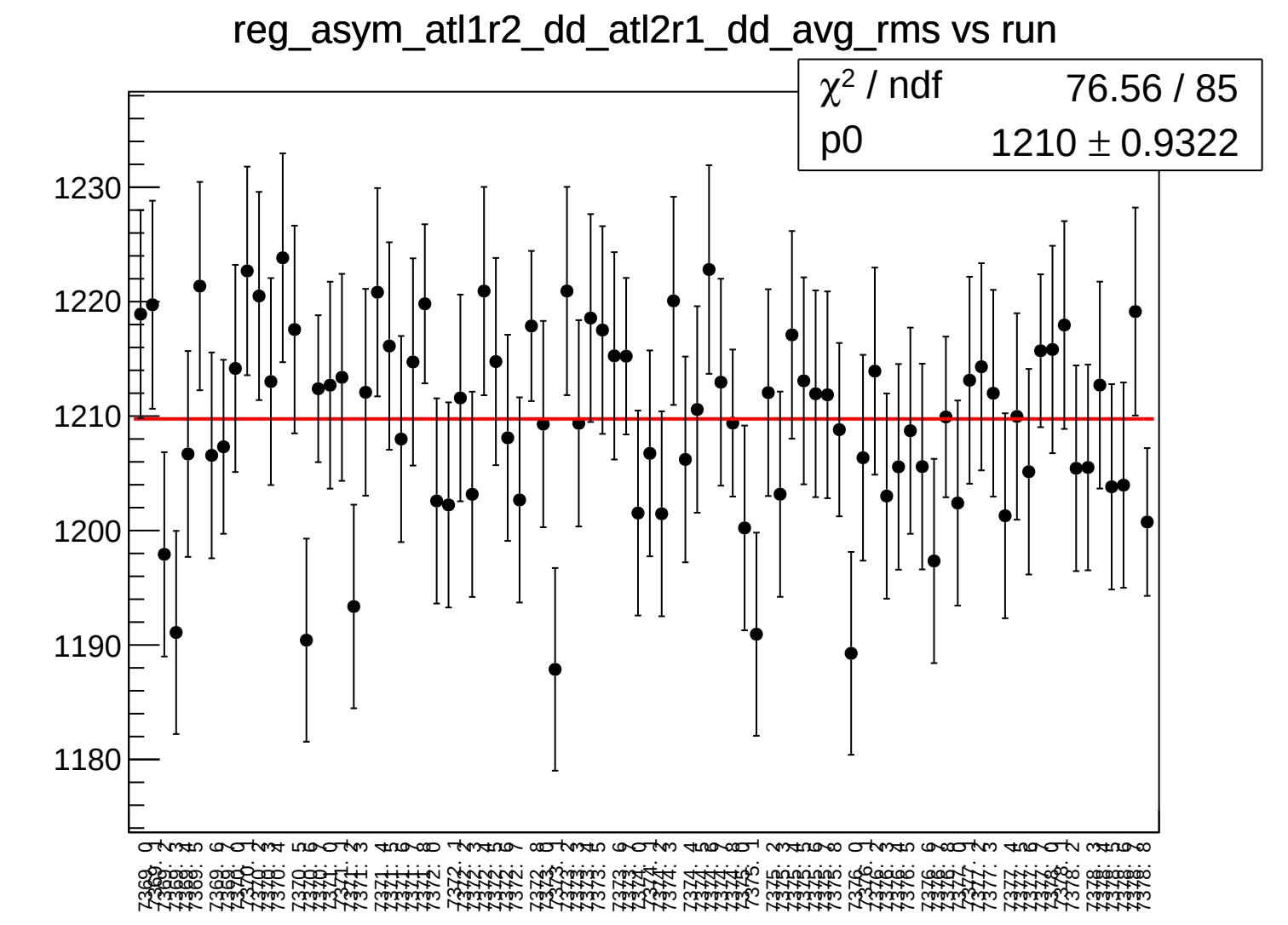

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.139e+04 / 85
p0 641.3 ± 0.5066
1100
1000
900
800
700
600
500
400

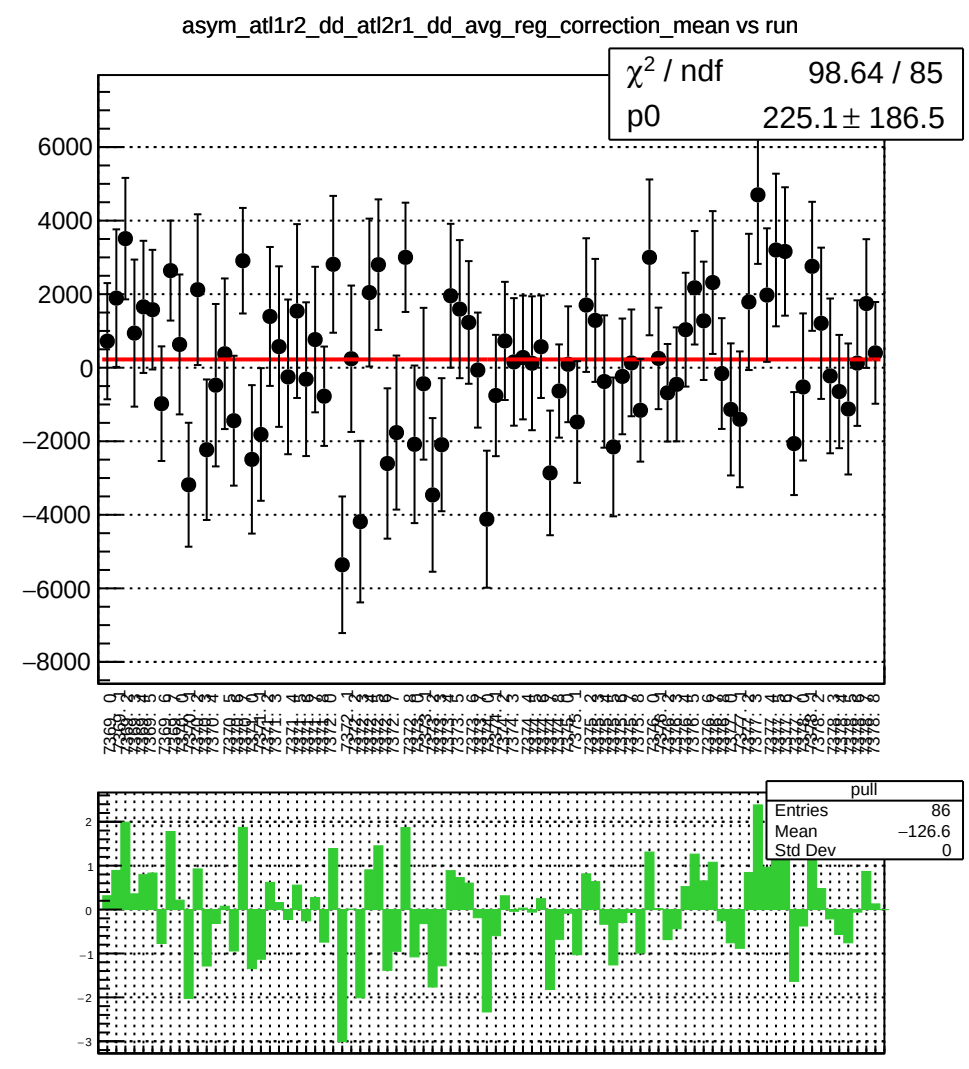

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.67 / 85
p0 −1.112e−14 ± 3.428e−14
pull
Entries 86
Mean −149.3
Std Dev 0

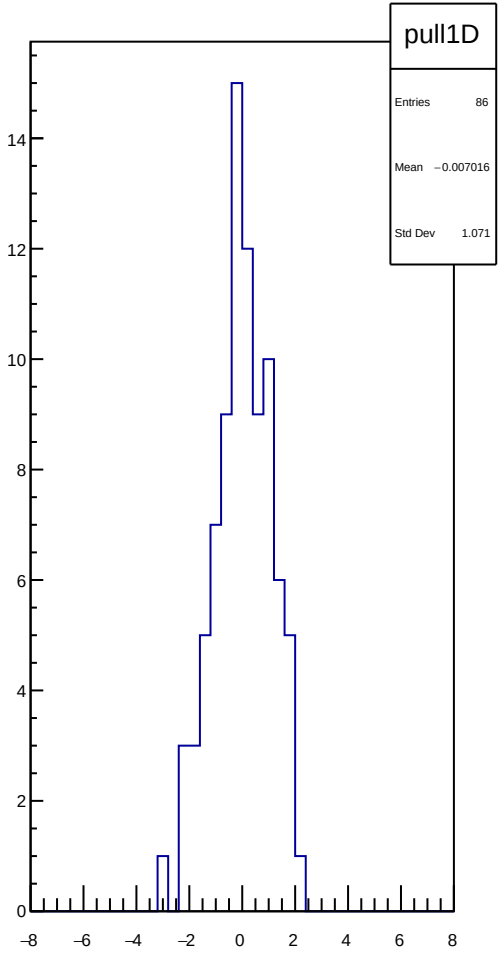

pull1D
Entries 86
Mean −0.02787
Std Dev 0.9977

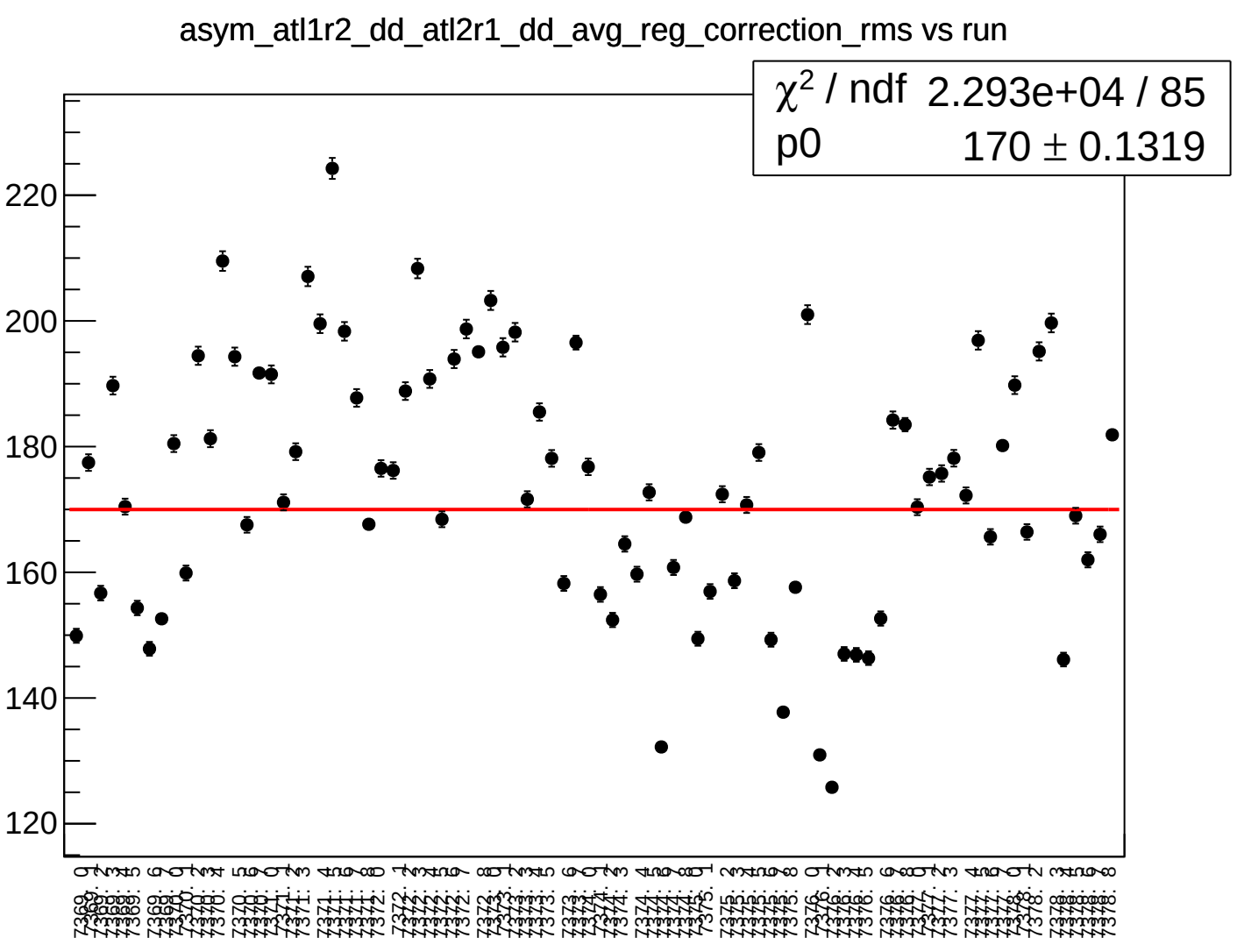

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.214e+05 / 85
p0 2.499e−11 ± 2.424e−14
0.25
0.2
0.15
0.1
0.05

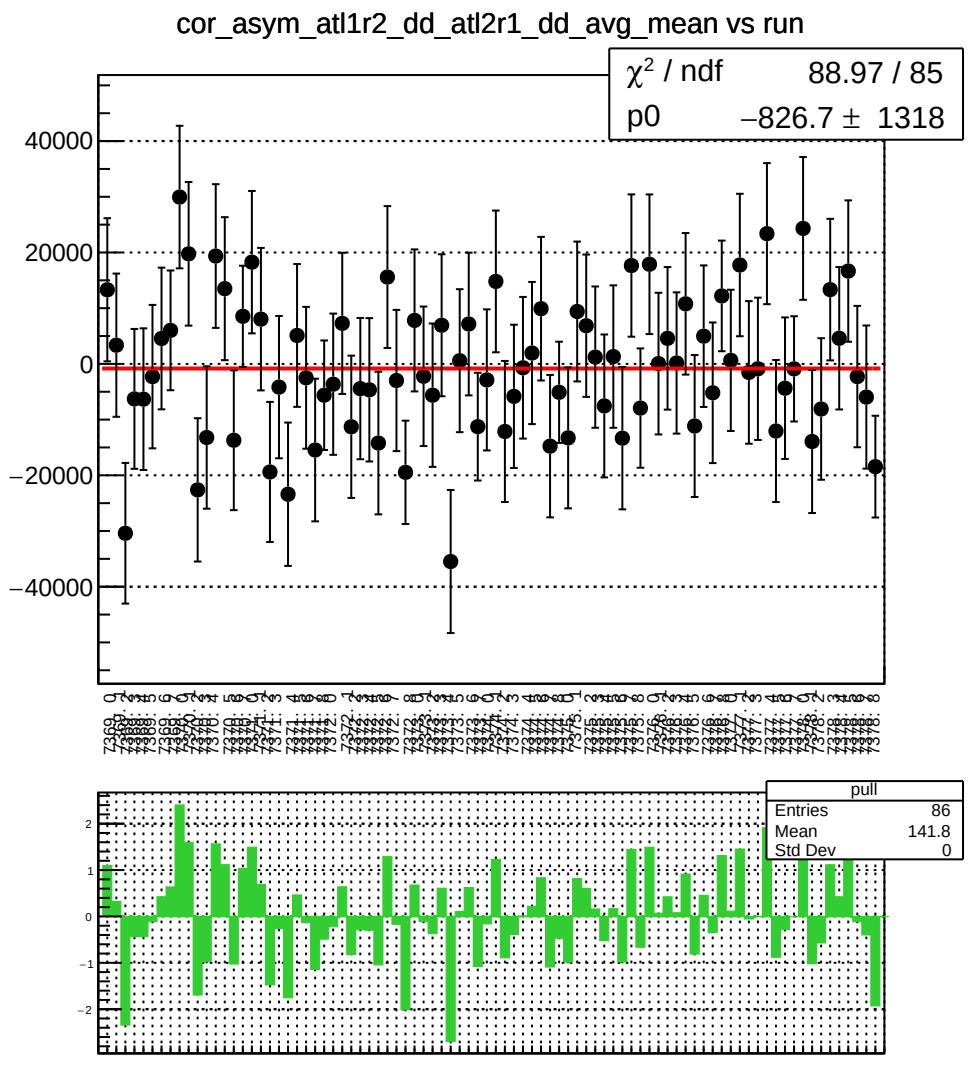

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.97 / 85
p0 −827.2 ± 1318
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 141.8
Std Dev 0
pull1D
Entries 86
Mean 0.01679
Std Dev 1.017

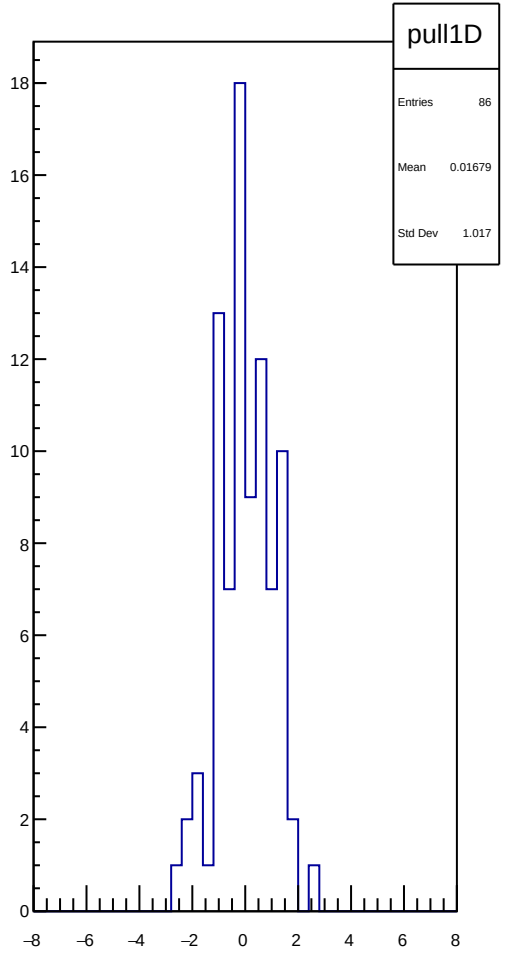

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 76.56 / 85
p0 1210 ± 0.9322
1230
1220
1210
1200
1190
1180

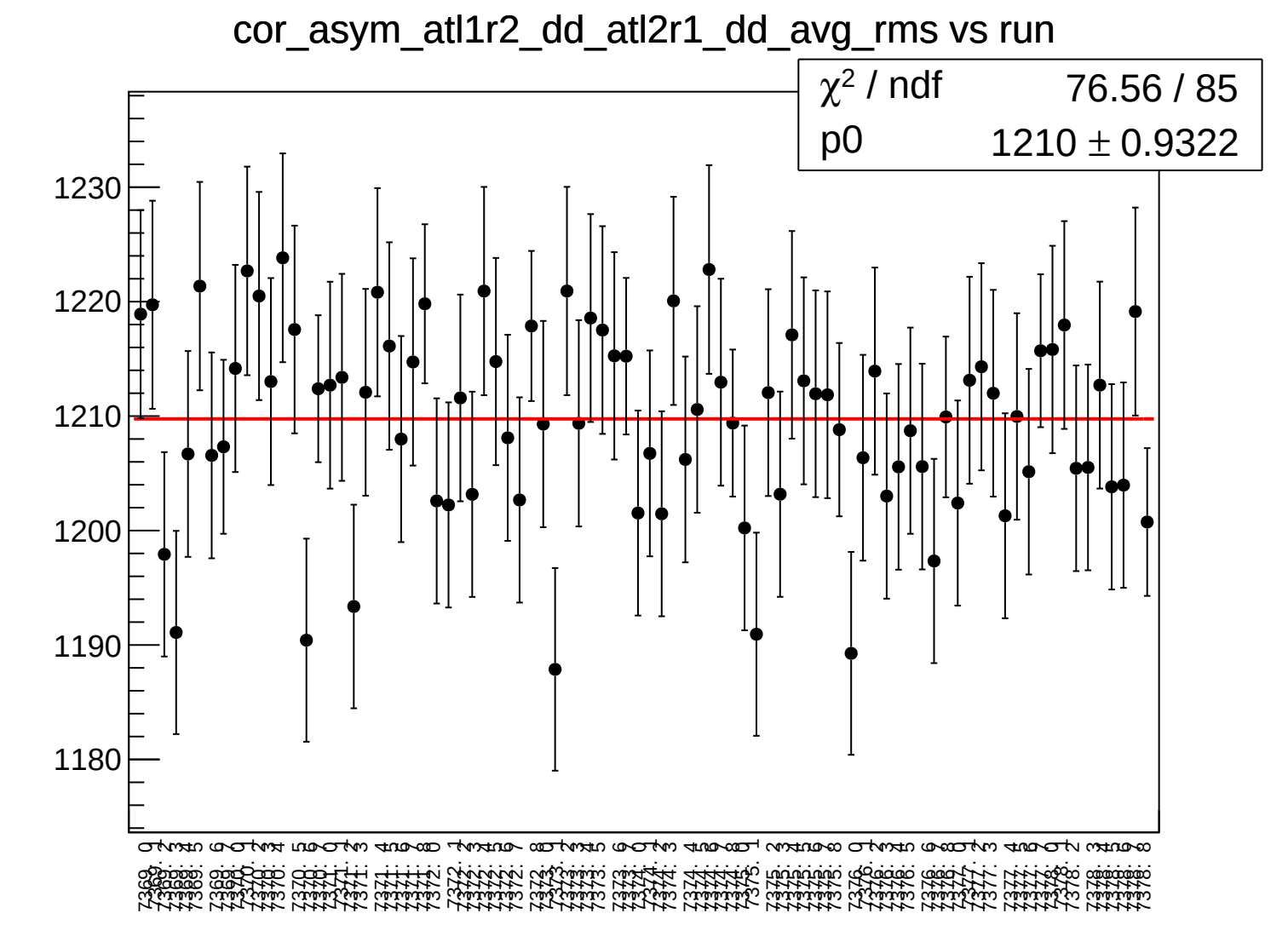

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 98.64 / 85
p0 225.1 ± 186.5
pull
Entries 86
Mean −126.6
Std Dev 0

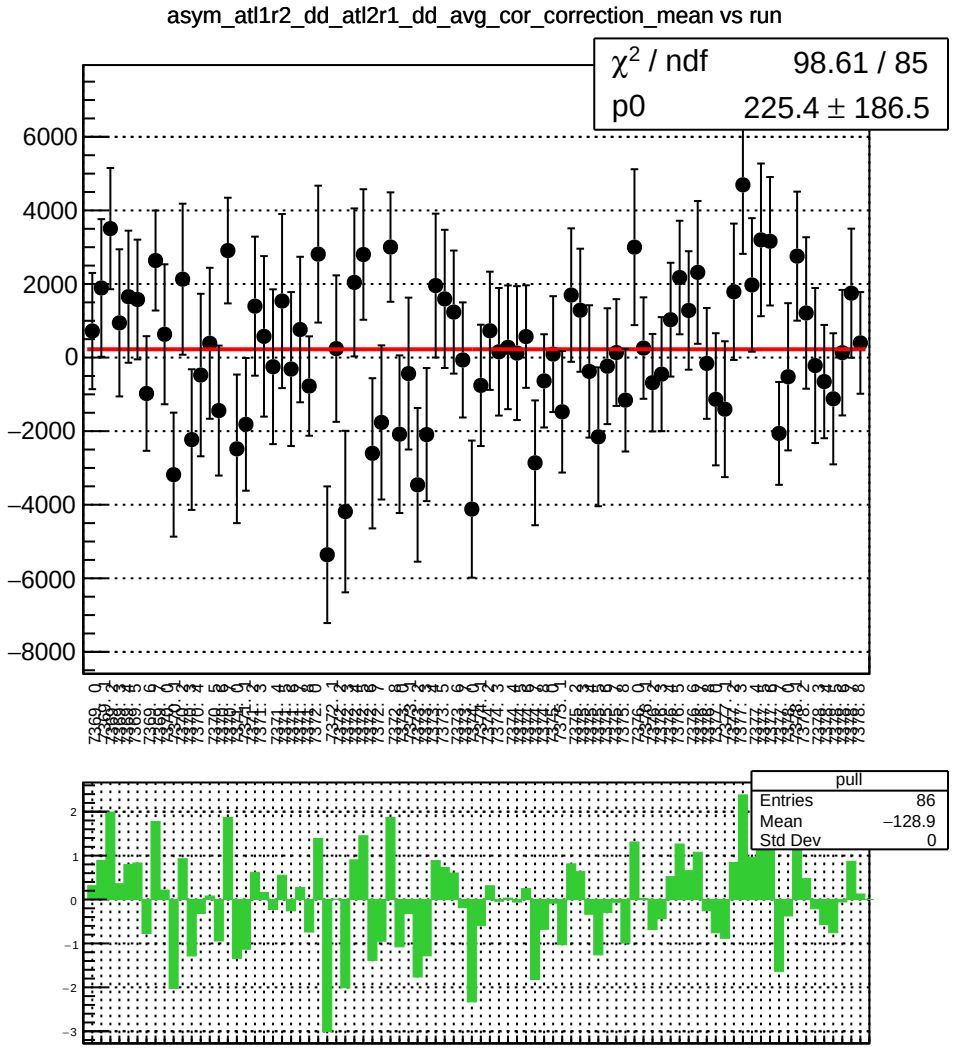

pull1D
Entries 86
Mean −0.007016
Std Dev 1.071

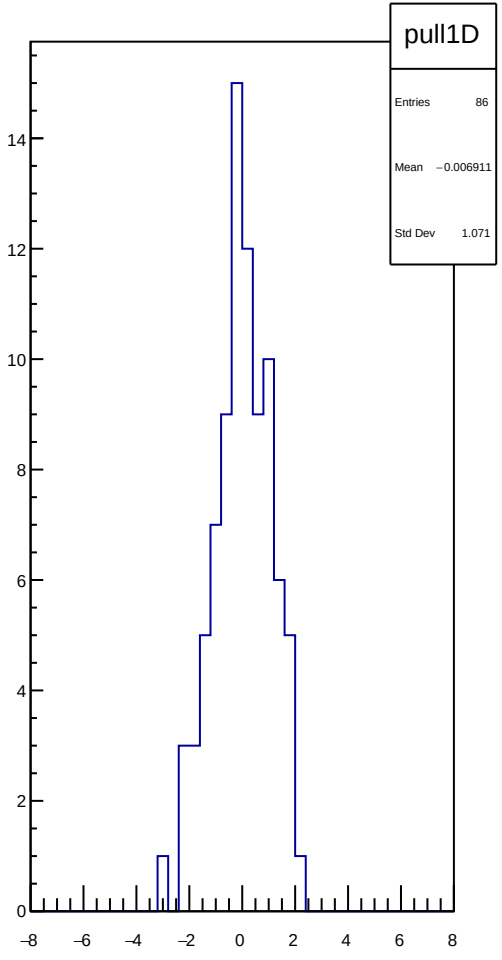

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 2.293e+04 / 85
p0 170 ± 0.1319
220
200
180
160
140
120

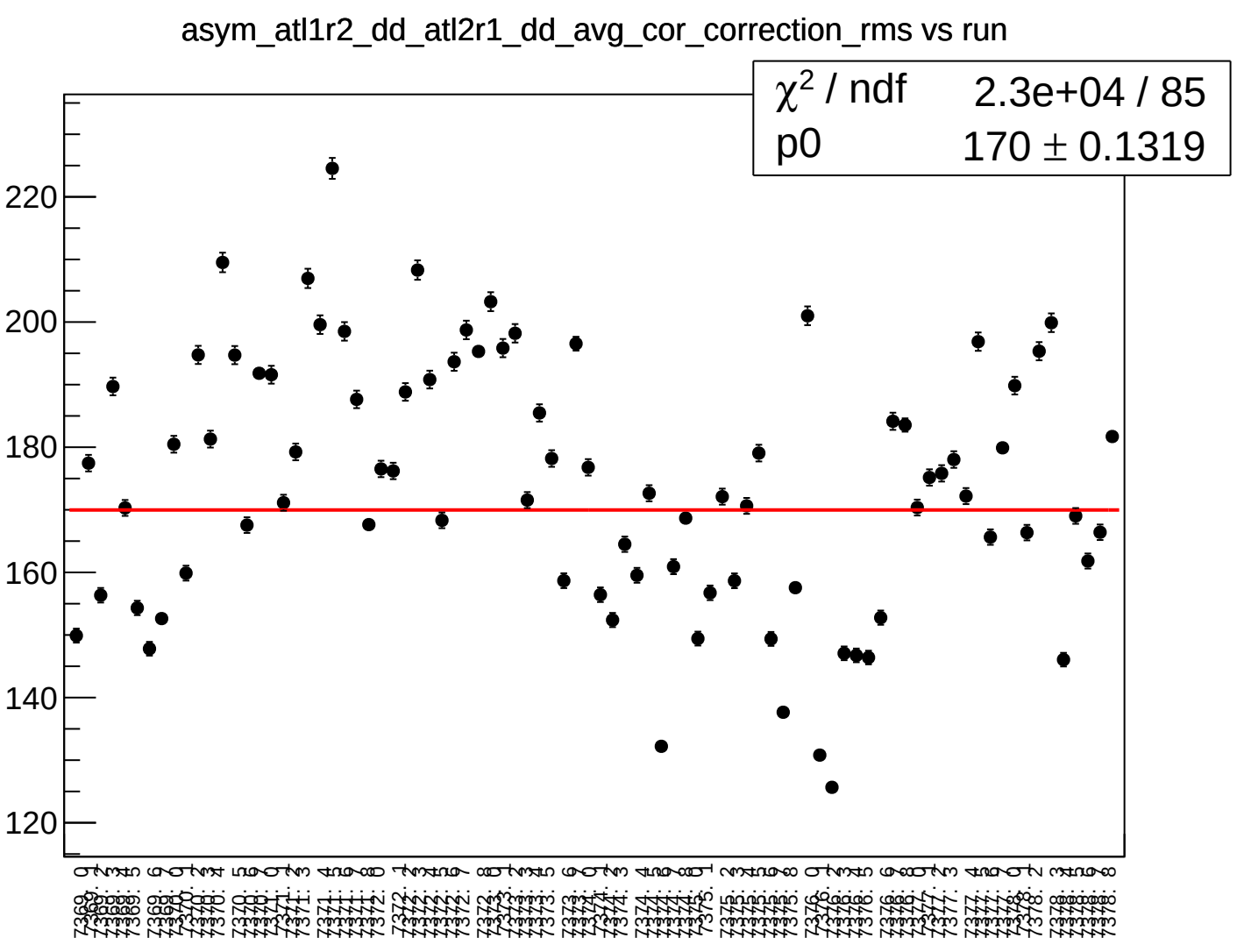

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.97 / 85
p0 −826.7 ± 1318
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 141.8
Std Dev 0
2
1
0
−1
−2

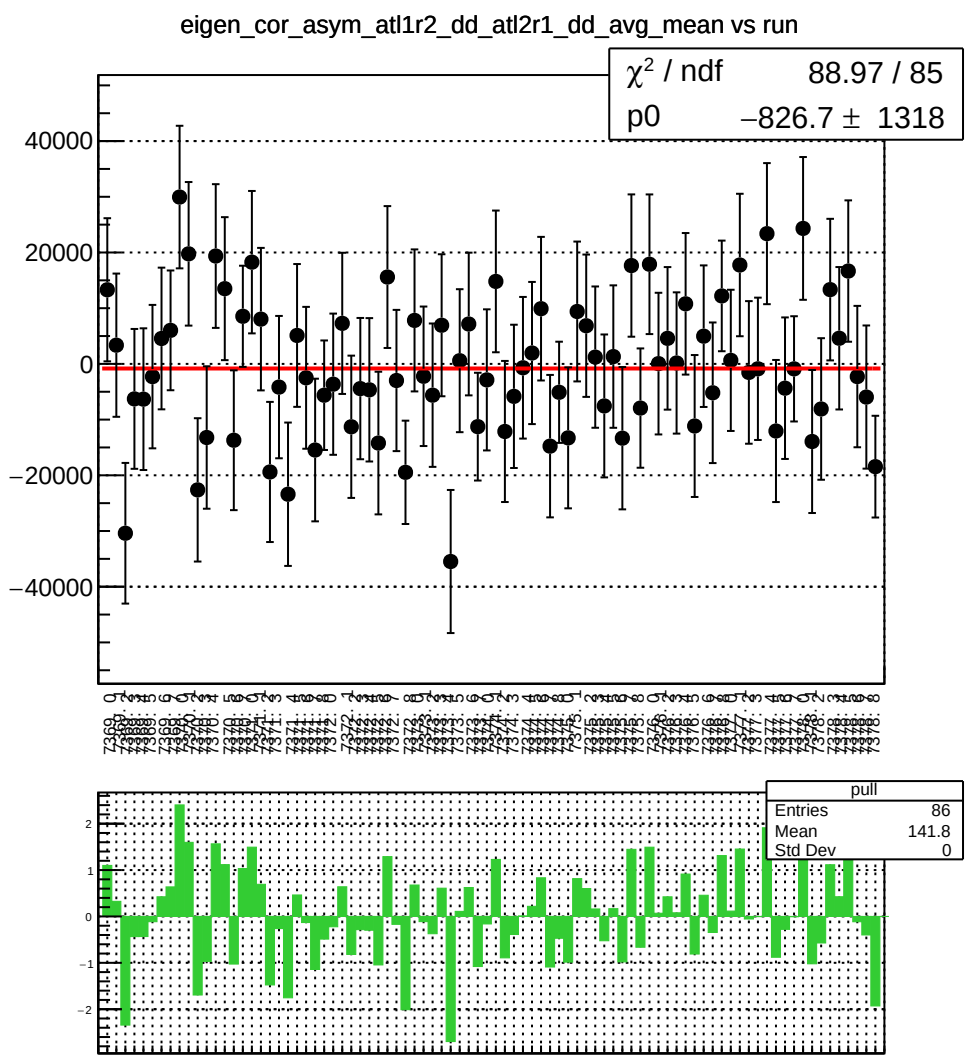

pull1D
Entries 86
Mean 0.01679
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

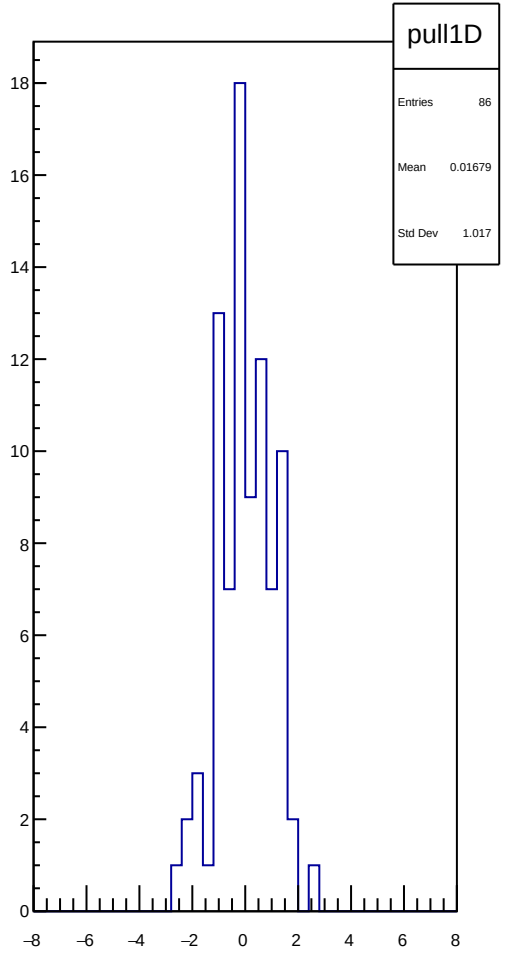

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 76.56 / 85
p0 1210 ± 0.9322
1230
1220
1210
1200
1190
1180

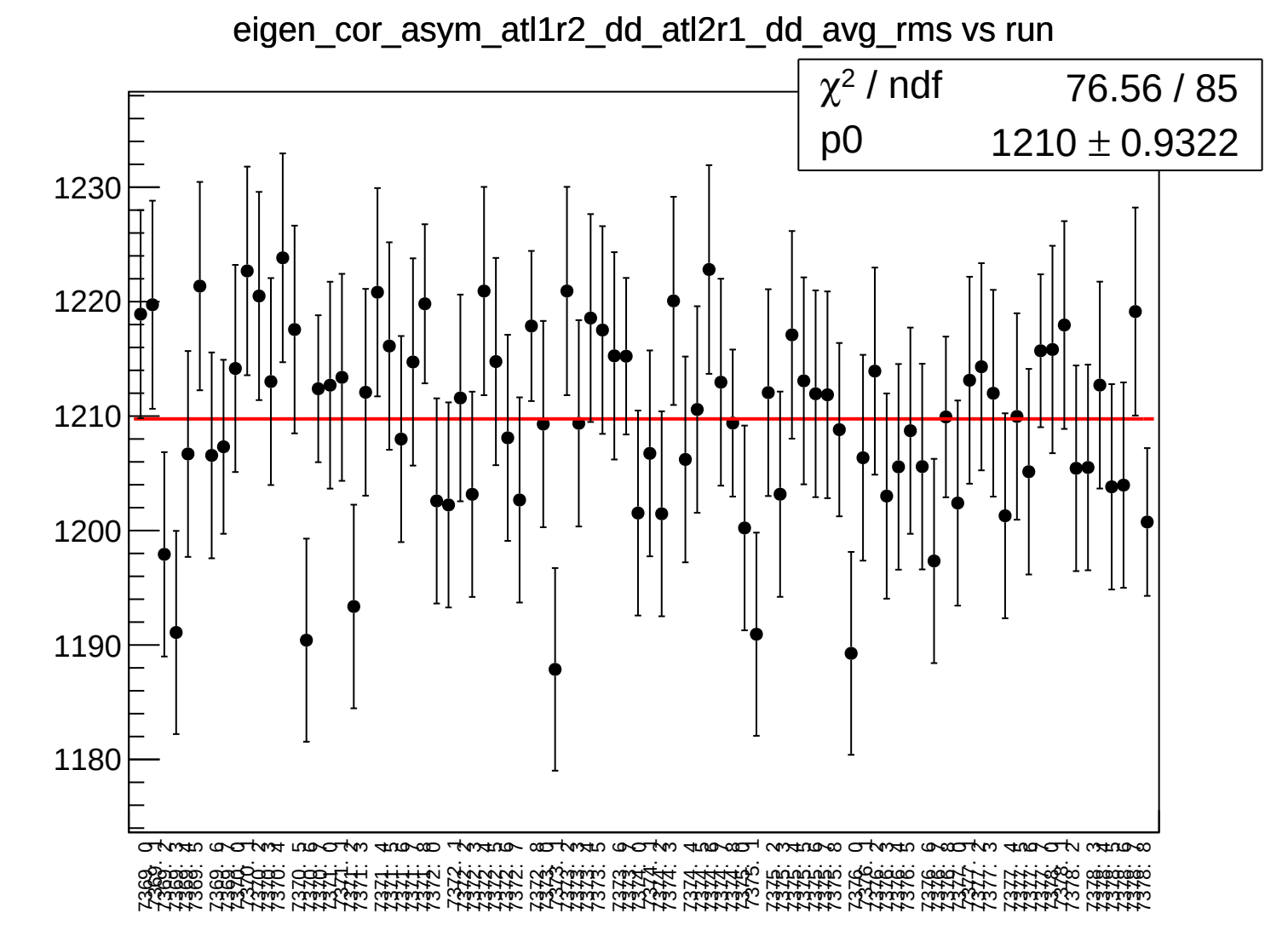

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 98.61 / 85
p0 225.4 ± 186.5
pull
Entries 86
Mean −128.9
Std Dev 0

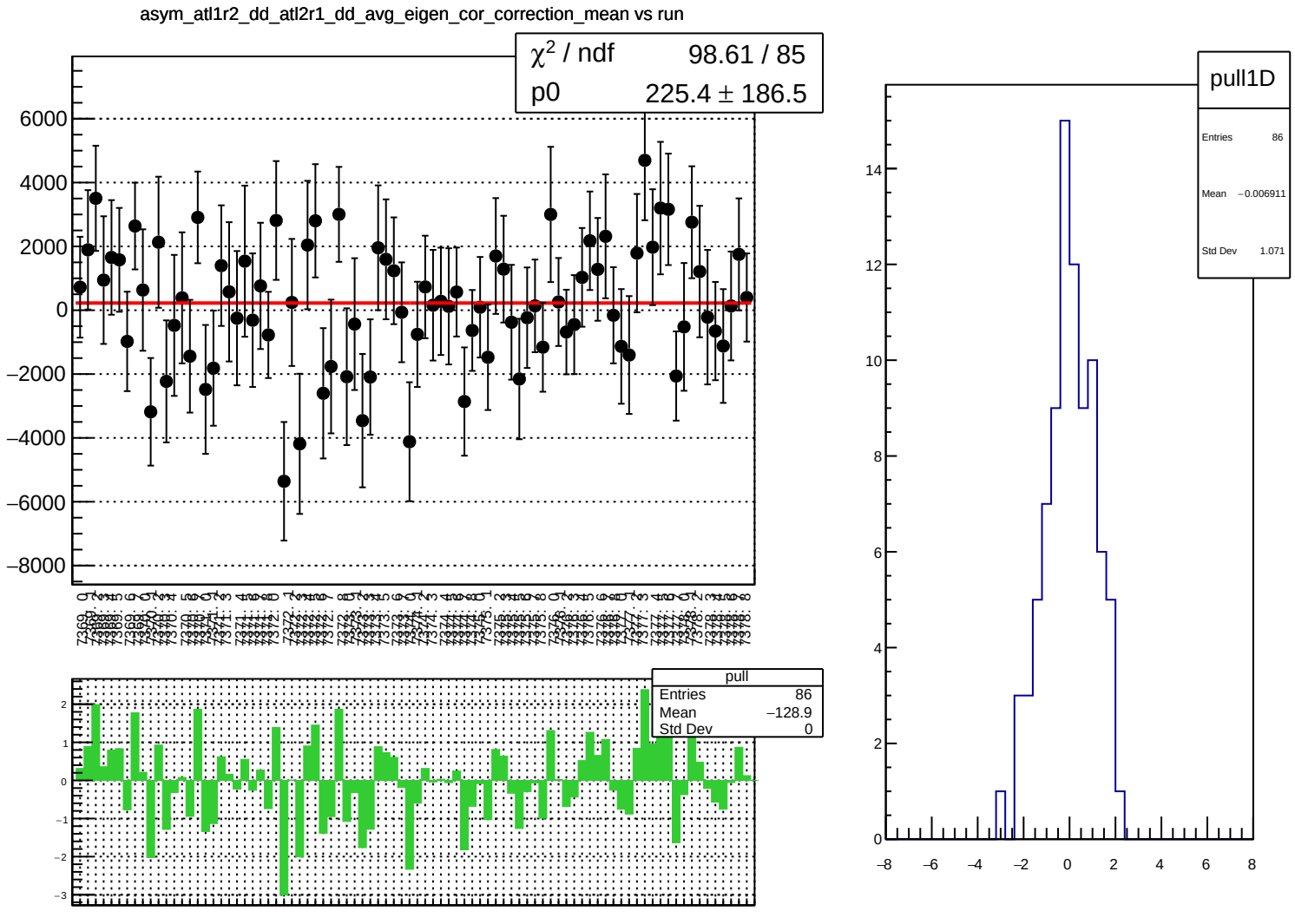

pull1D
Entries 86
Mean −0.006911
Std Dev 1.071

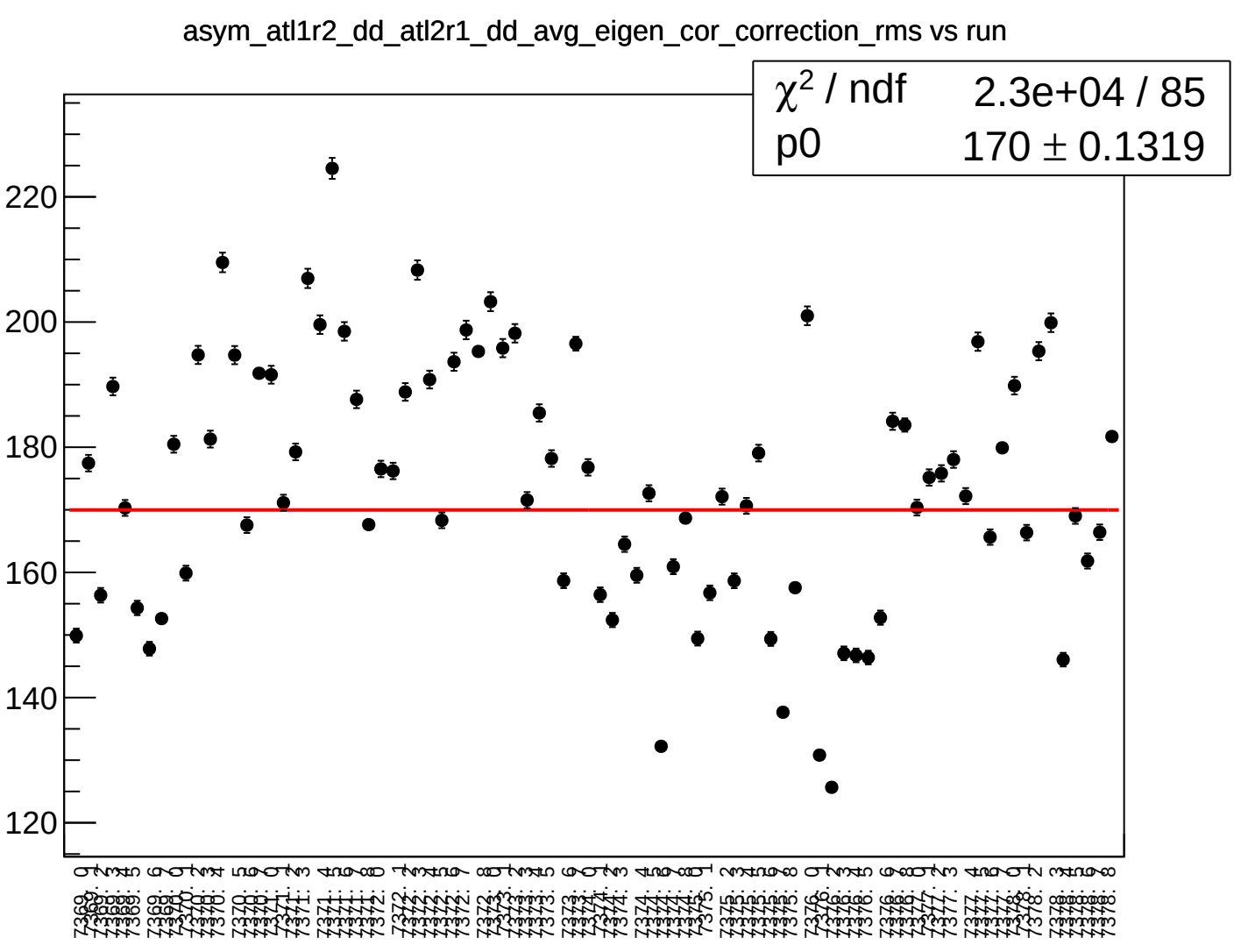

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 2.3e+04 / 85
p0 170 ± 0.1319
220
200
180
160
140
120

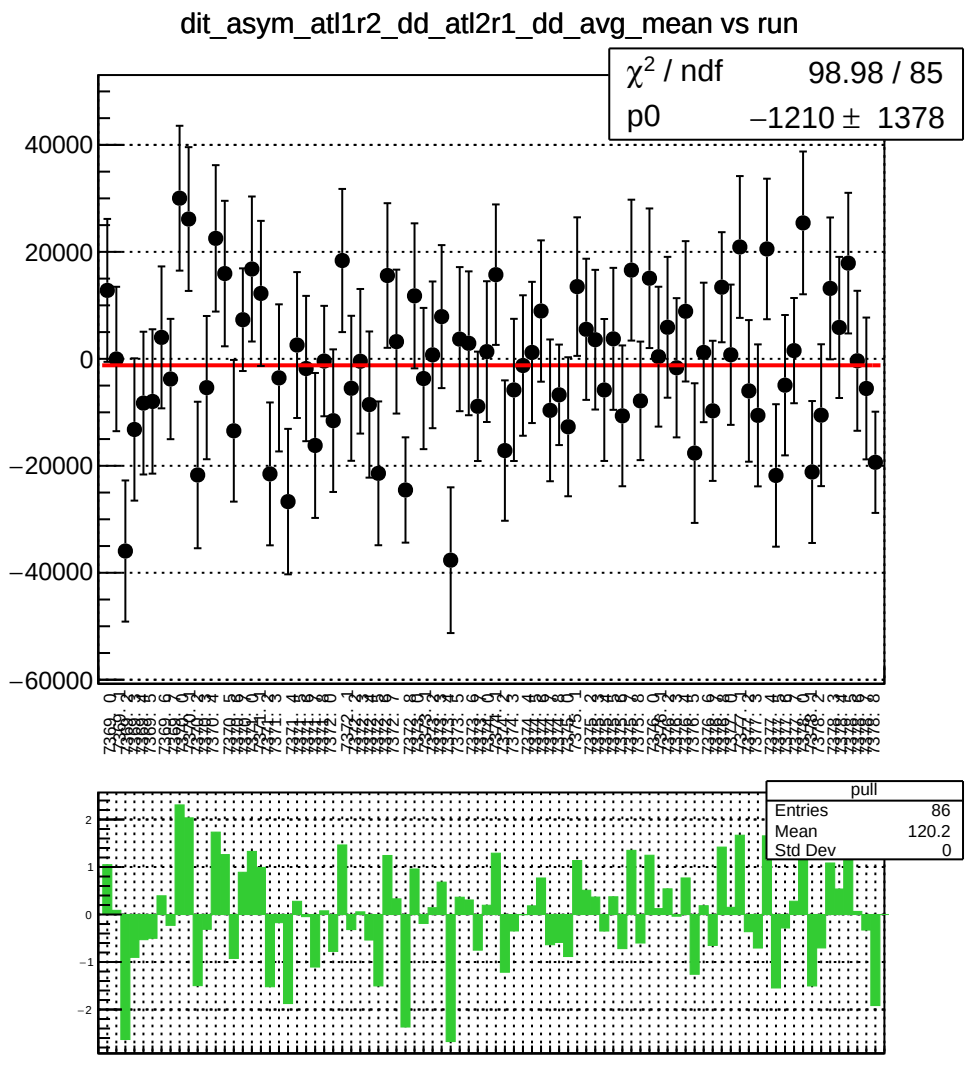

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.97 / 85
p0 −826.7 ± 1318
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 141.8
Std Dev 0
2
1
0
−1
−2

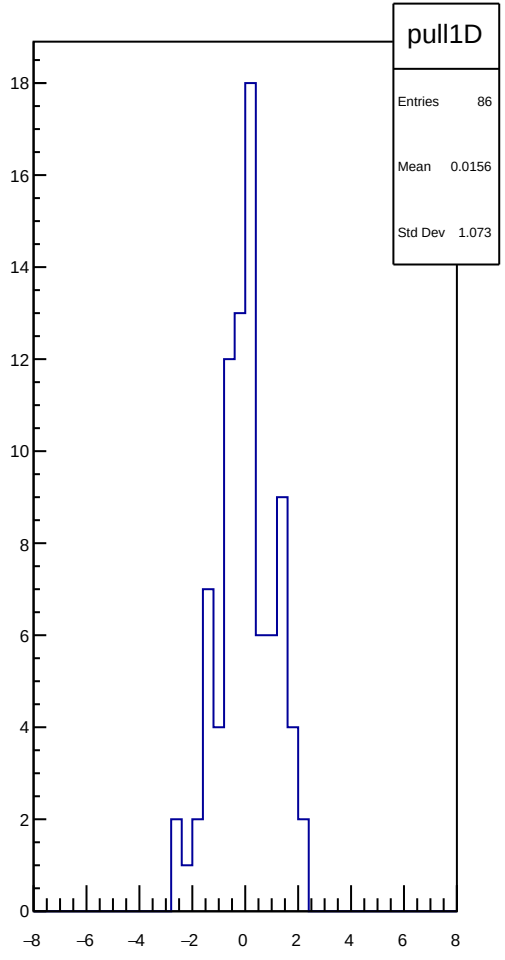

pull1D
Entries 86
Mean 0.01679
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

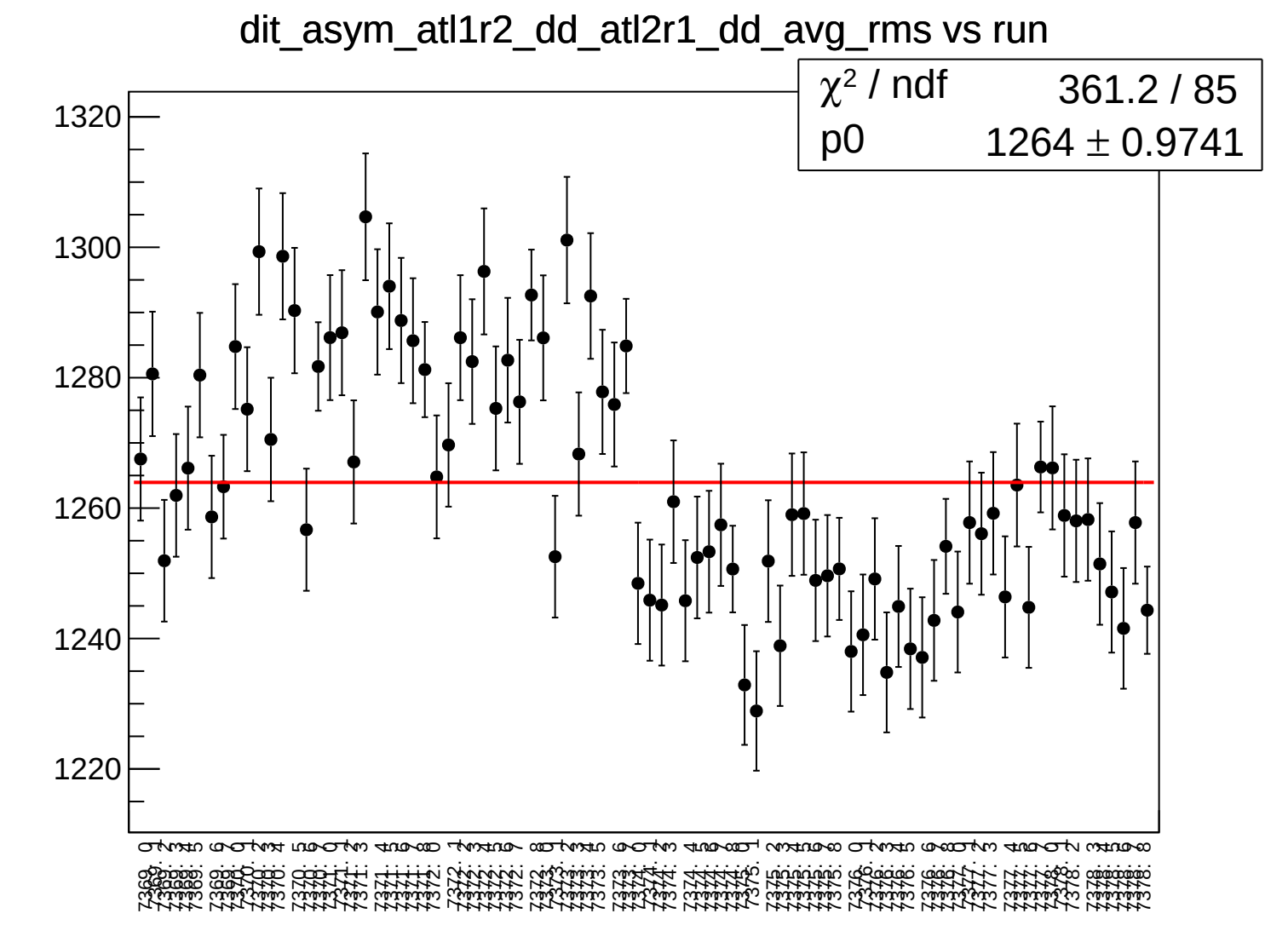

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 76.56 / 85
p0 1210 ± 0.9322
1230
1220
1210
1200
1190
1180

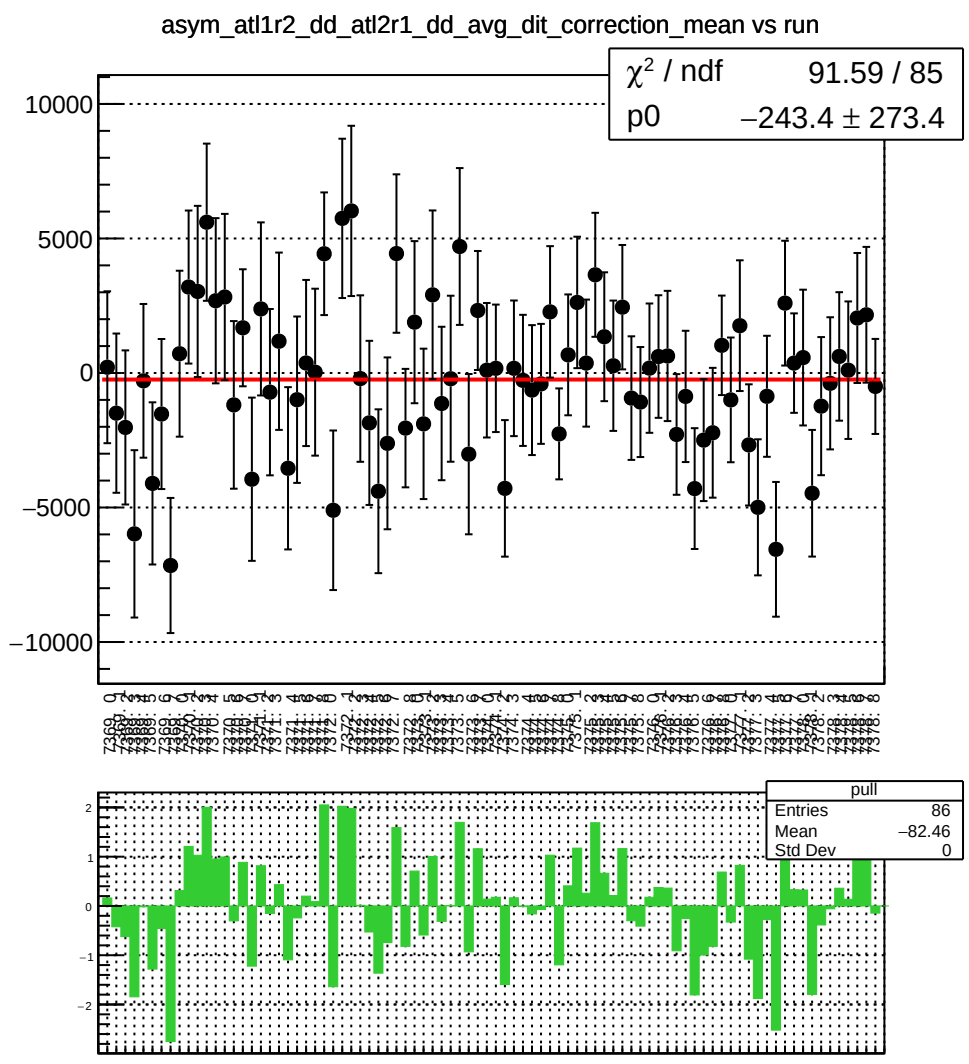

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.61 / 85
p0 225.4 ± 186.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −128.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.006911
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

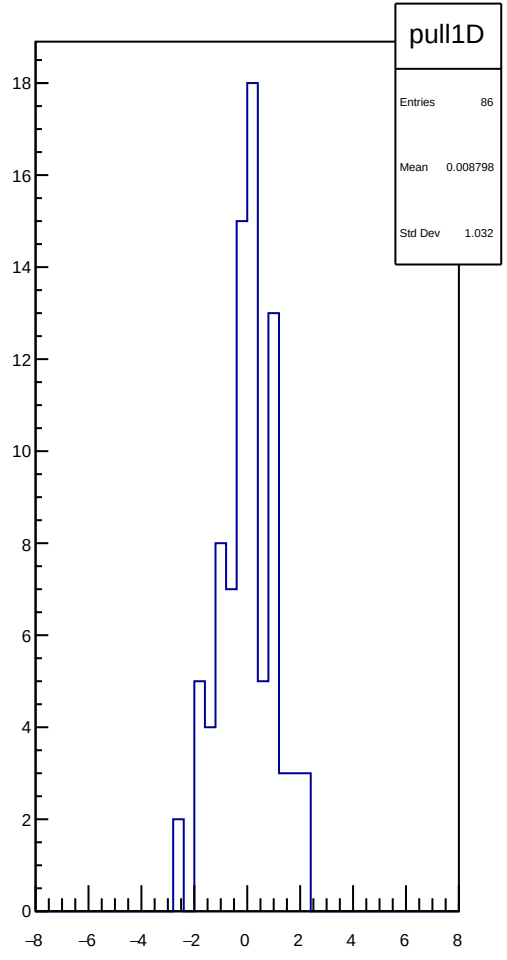

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.3e+04 / 85
p0 170 ± 0.1319
220
200
180
160
140
120

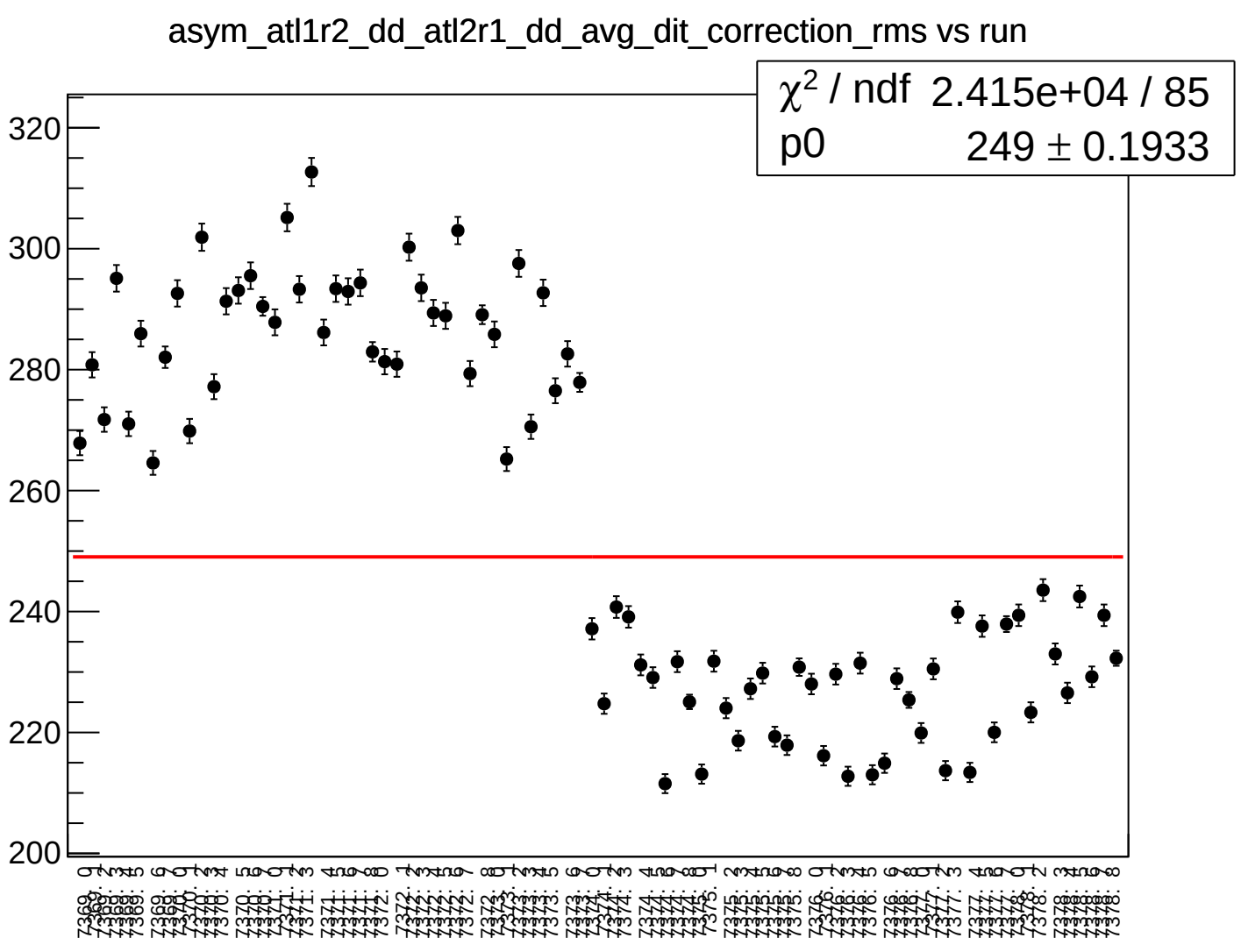

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 98.98 / 85
p0 −1210 ± 1378
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 120.2
Std Dev 0
2
1
0
−1
−2

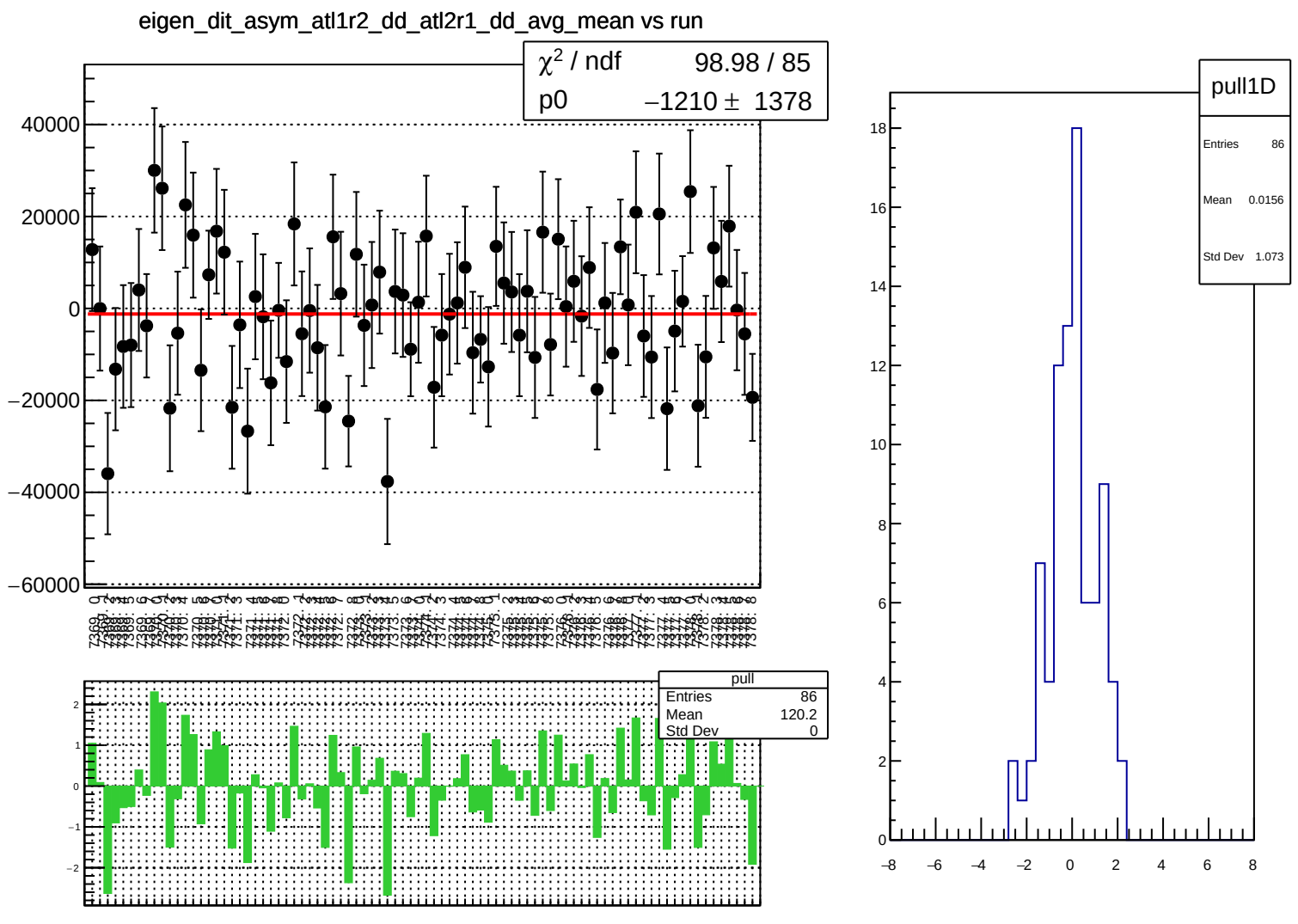

pull1D
Entries 86
Mean 0.0156
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

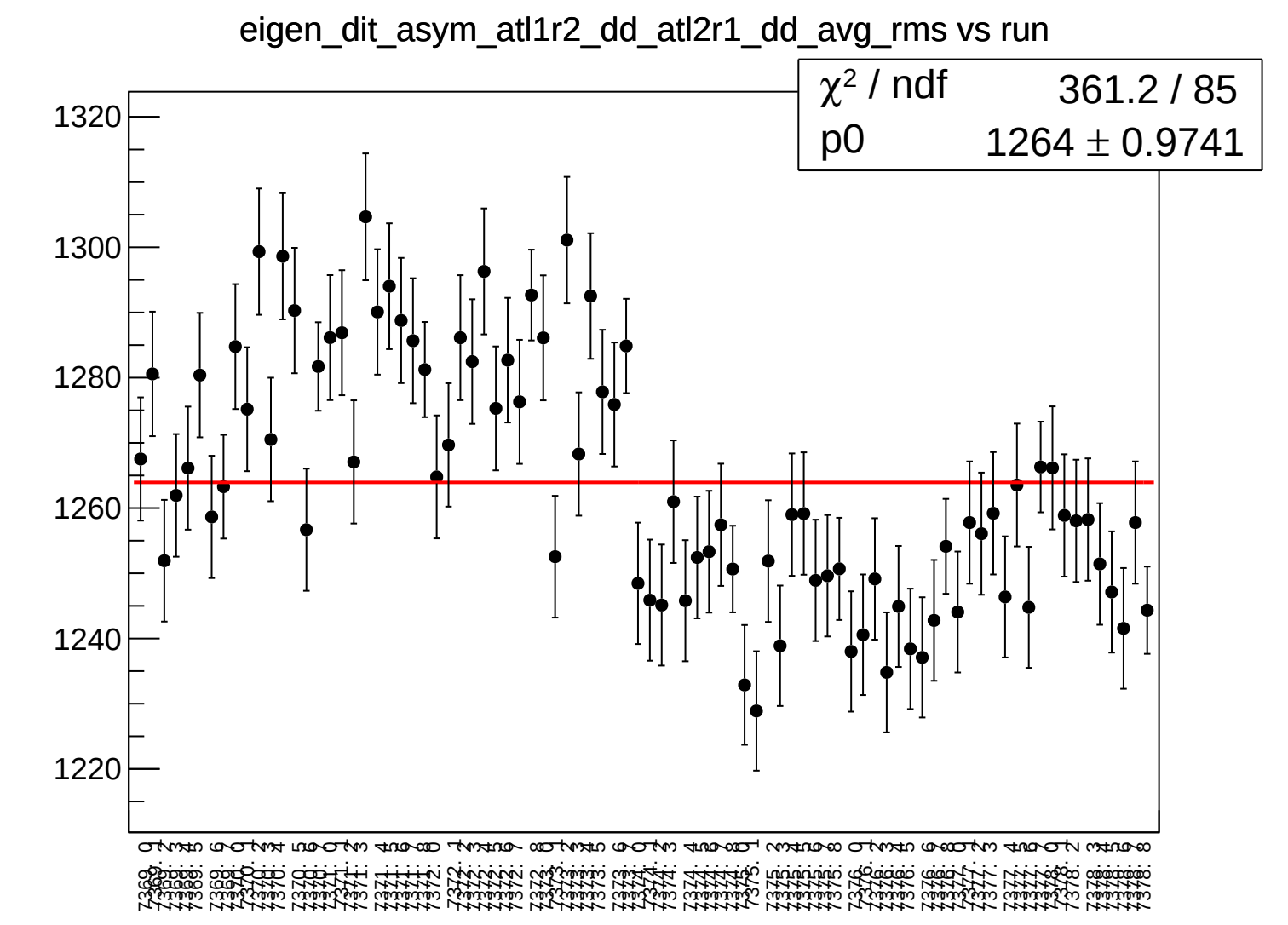

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 361.2 / 85
p0 1264 ± 0.9741
1320
1300
1280
1260
1240
1220

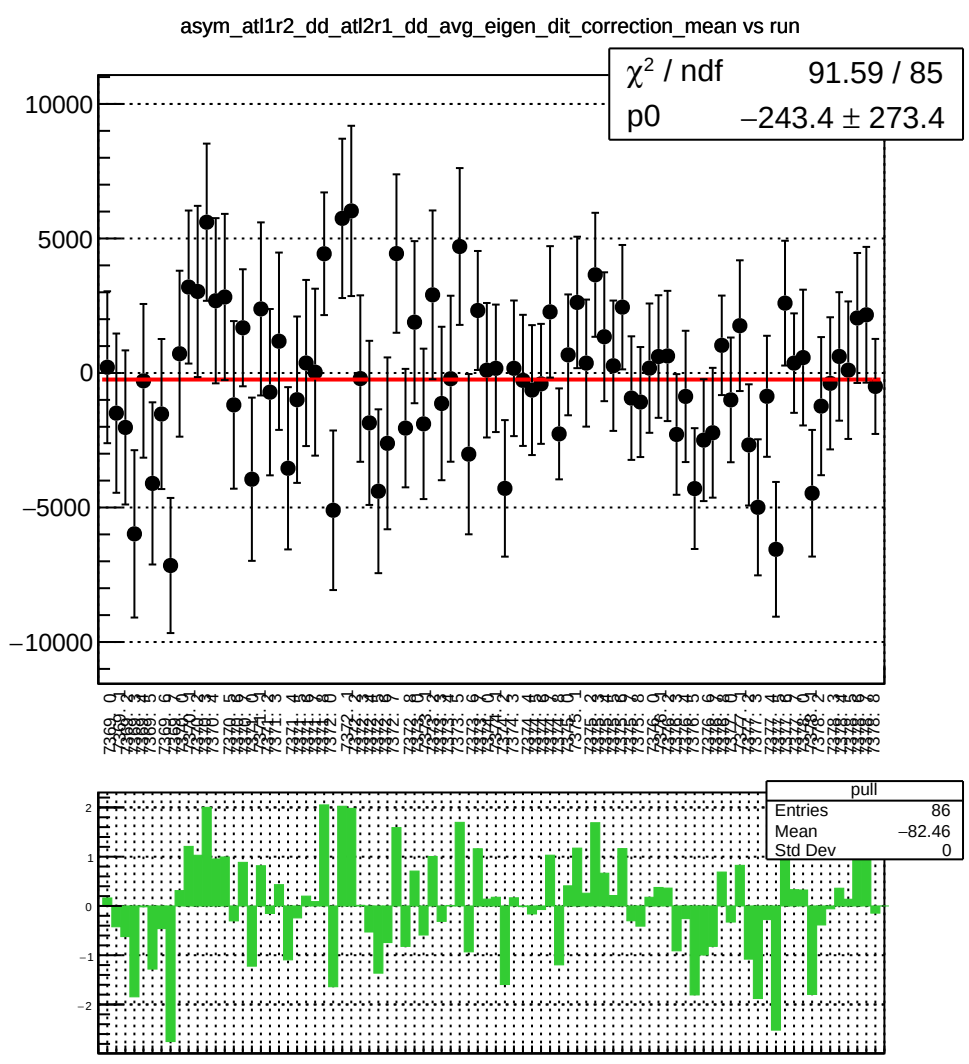

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 91.59 / 85
p0 −243.4 ± 273.4
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −82.46
Std Dev 0
2
1
0
−1
−2

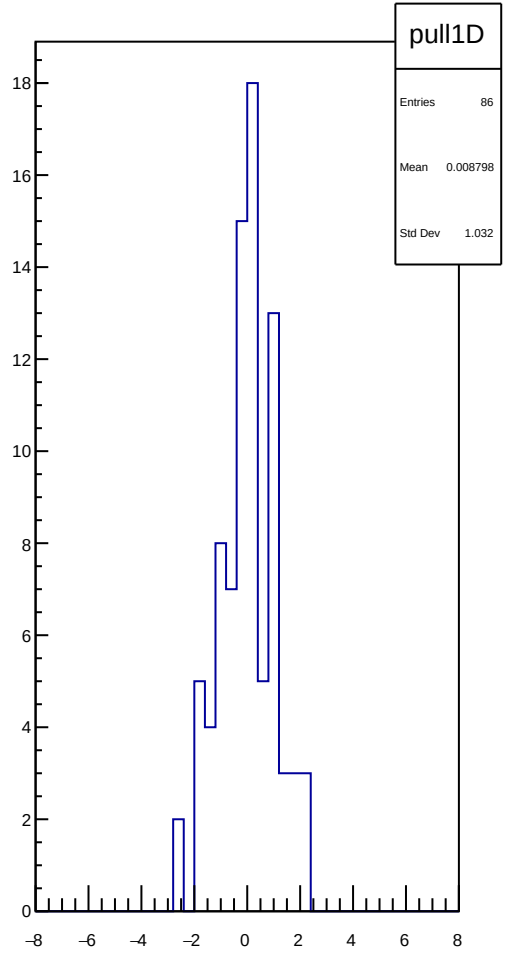

pull1D
Entries 86
Mean 0.008798
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

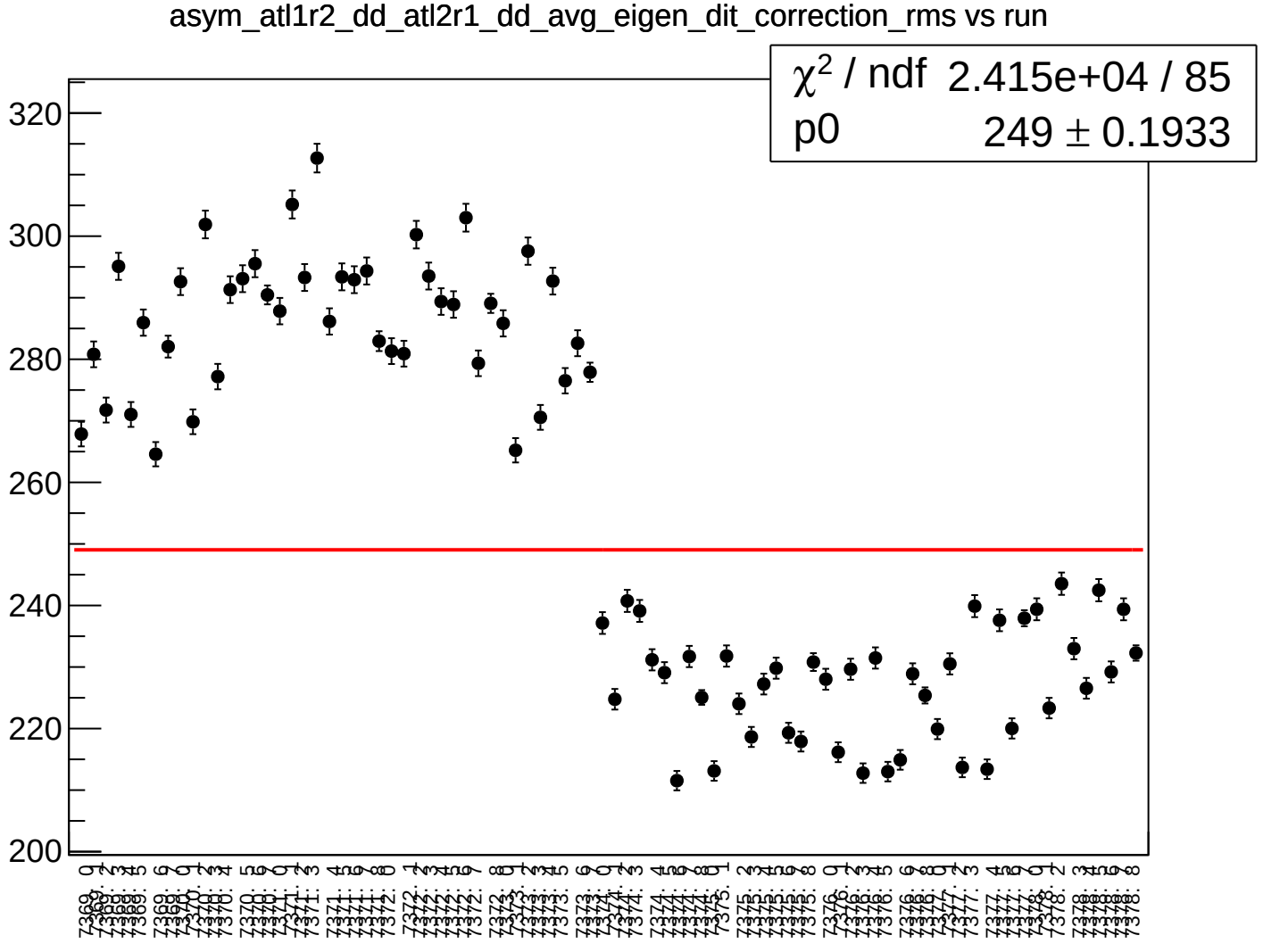

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2.415e+04 / 85
p0 249 ± 0.1933
320
300
280
260
240
220
200

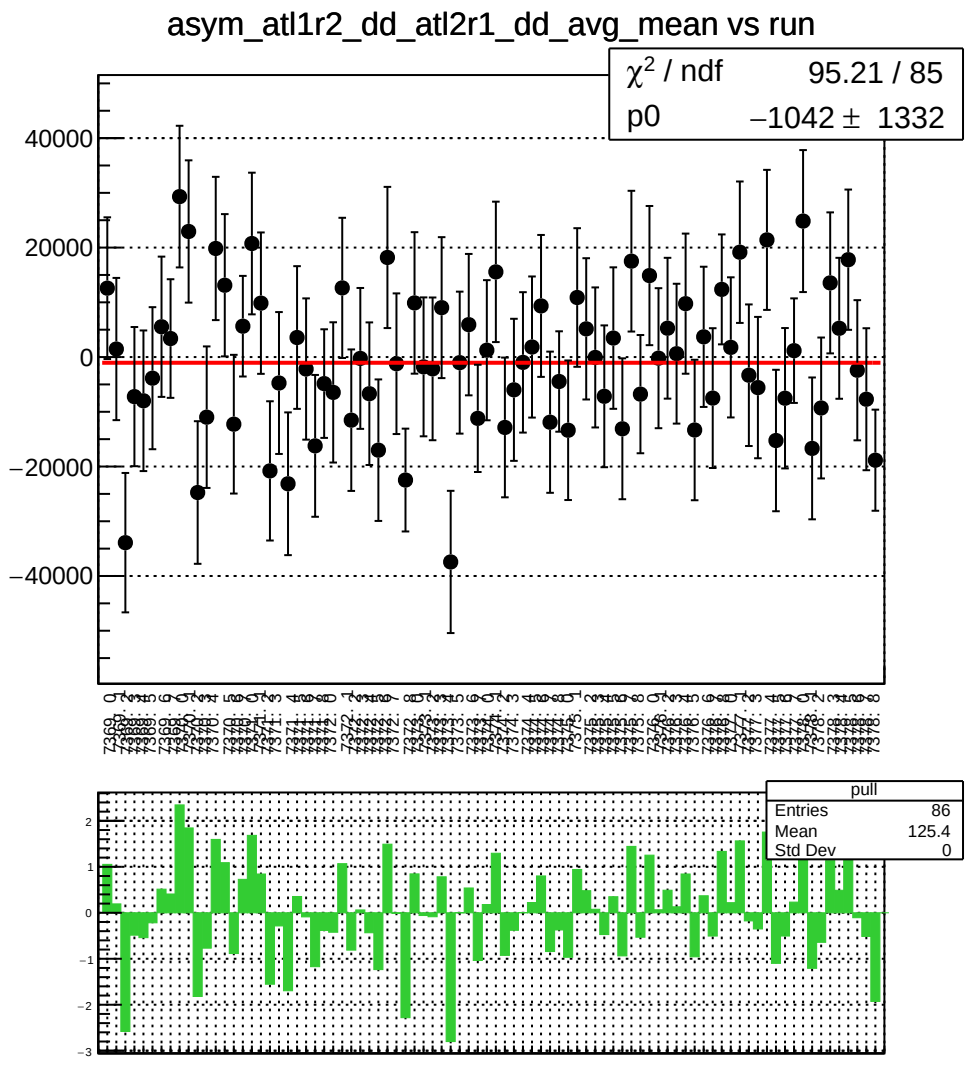

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 98.98 / 85
p0 −1210 ± 1378
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 120.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.0156
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

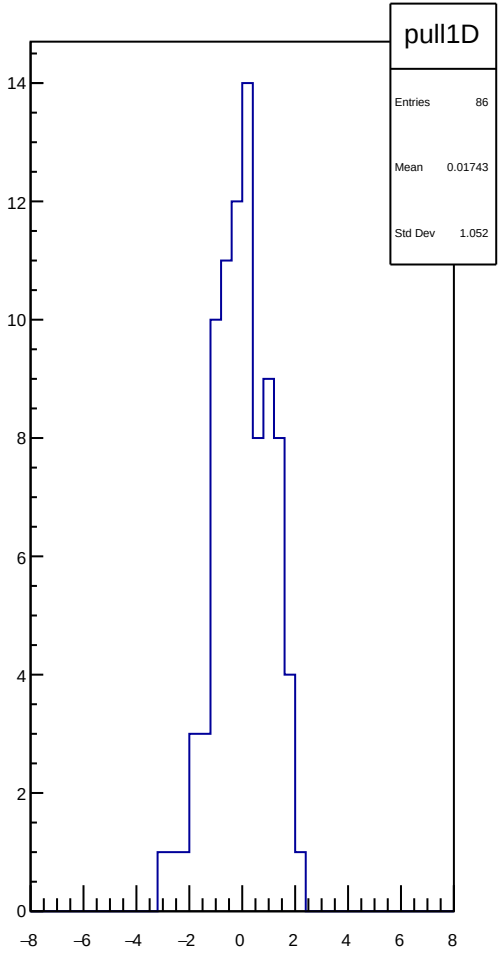

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 361.2 / 85
p0 1264 ± 0.9741
1320
1300
1280
1260
1240
1220

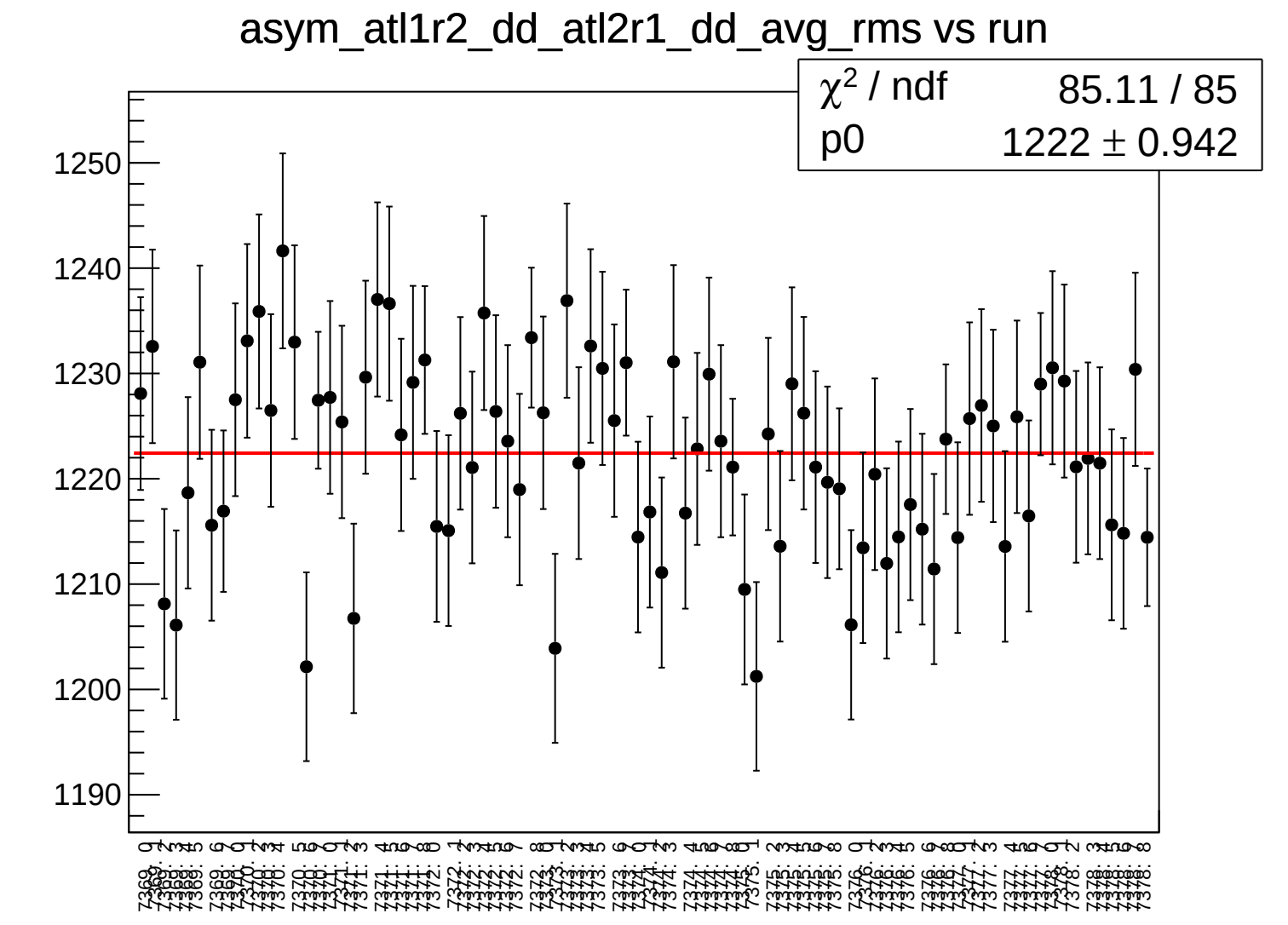

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.59 / 85
p0 −243.4 ± 273.4
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −82.46
Std Dev 0
2
1
0
−1
−2

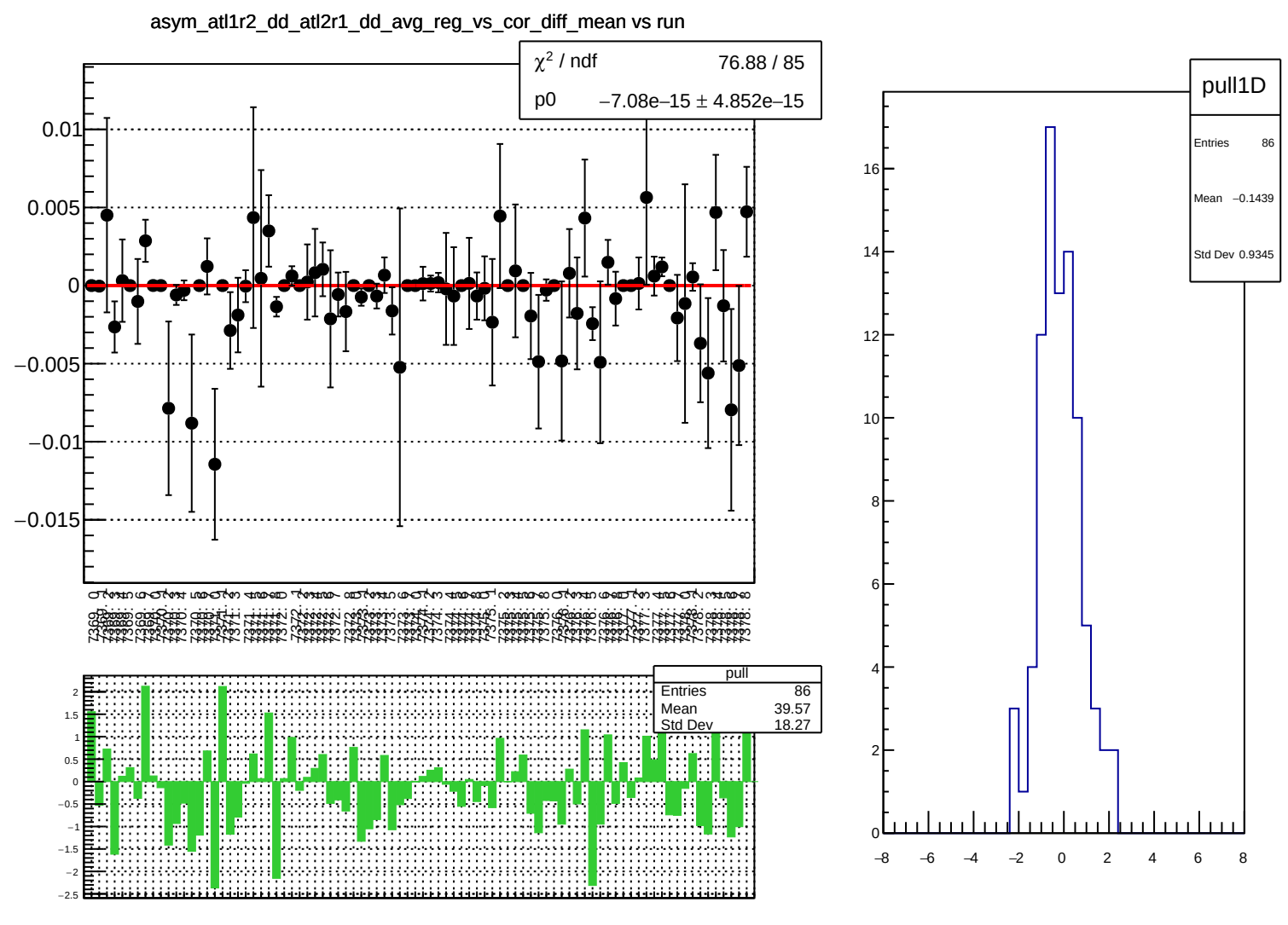

pull1D
Entries 86
Mean 0.008798
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

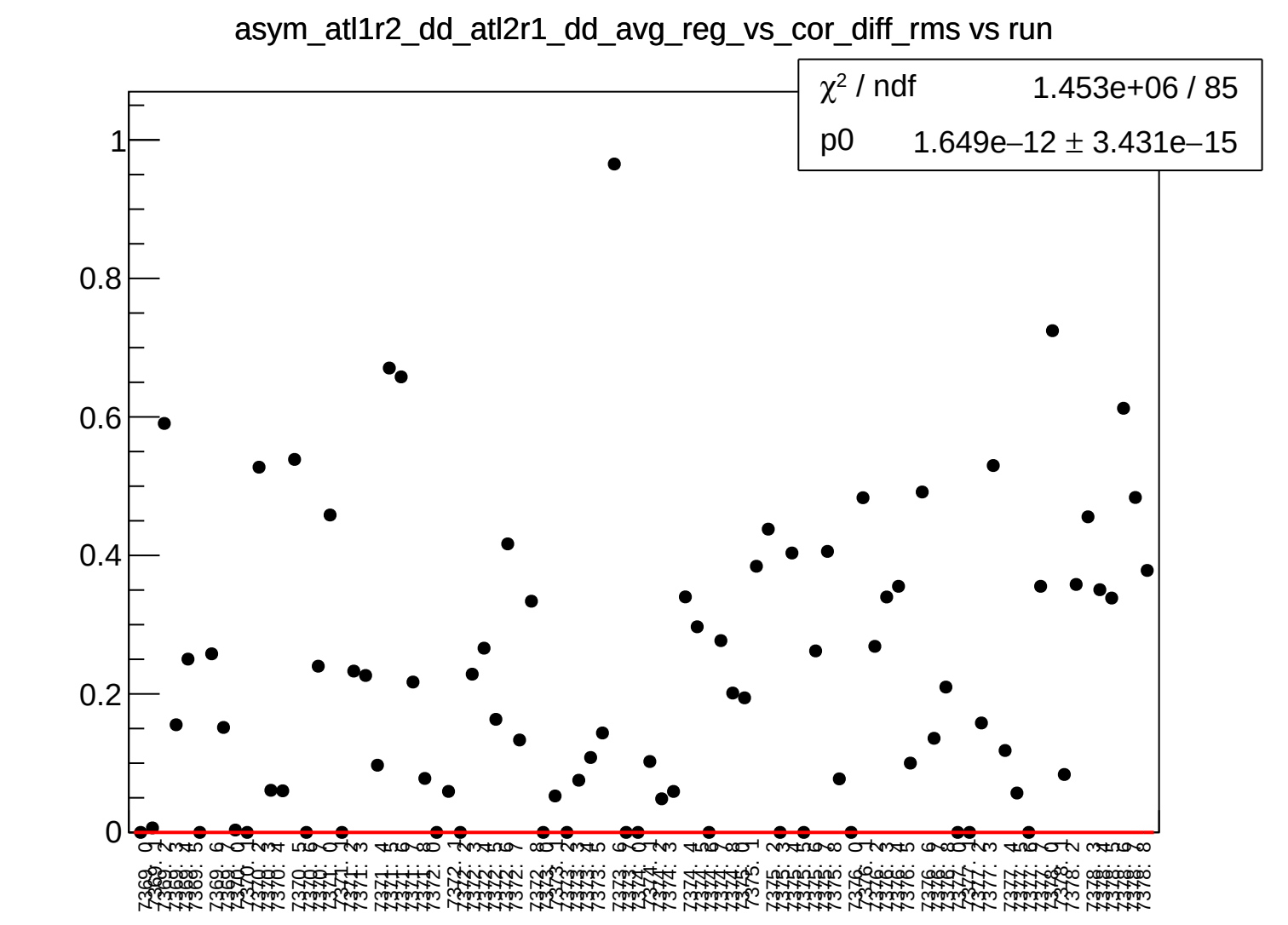

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.415e+04 / 85
p0 249 ± 0.1933
320
300
280
260
240
220
200

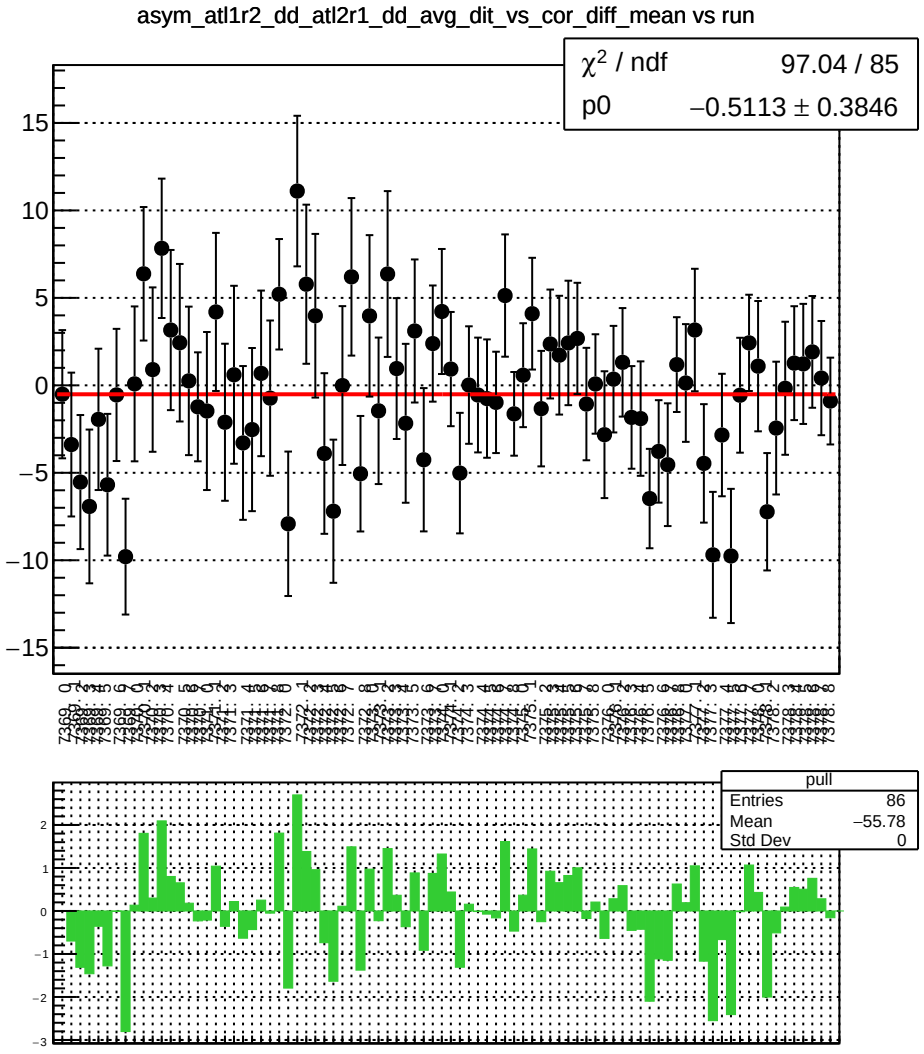

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 95.21 / 85
p0 −1042 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 125.4
Std Dev 0
2
1
0
−1
−2
−3

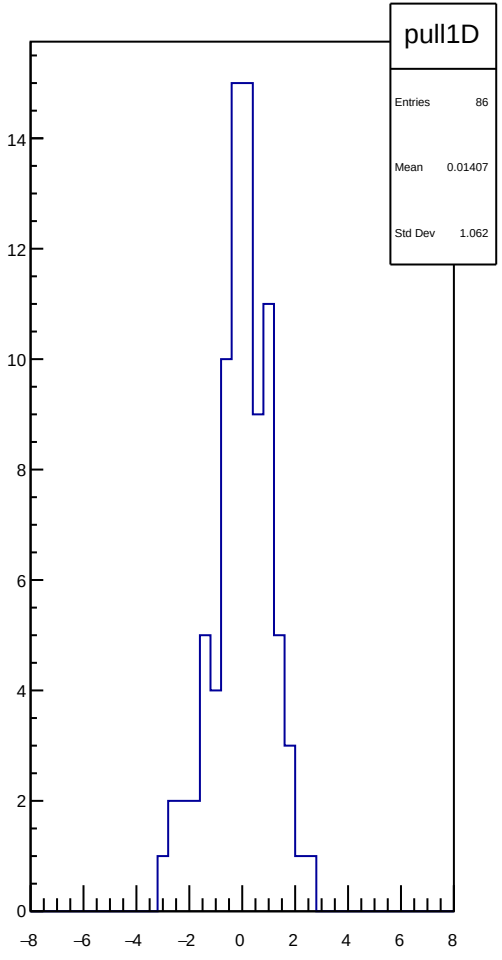

pull1D
Entries 86
Mean 0.01743
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

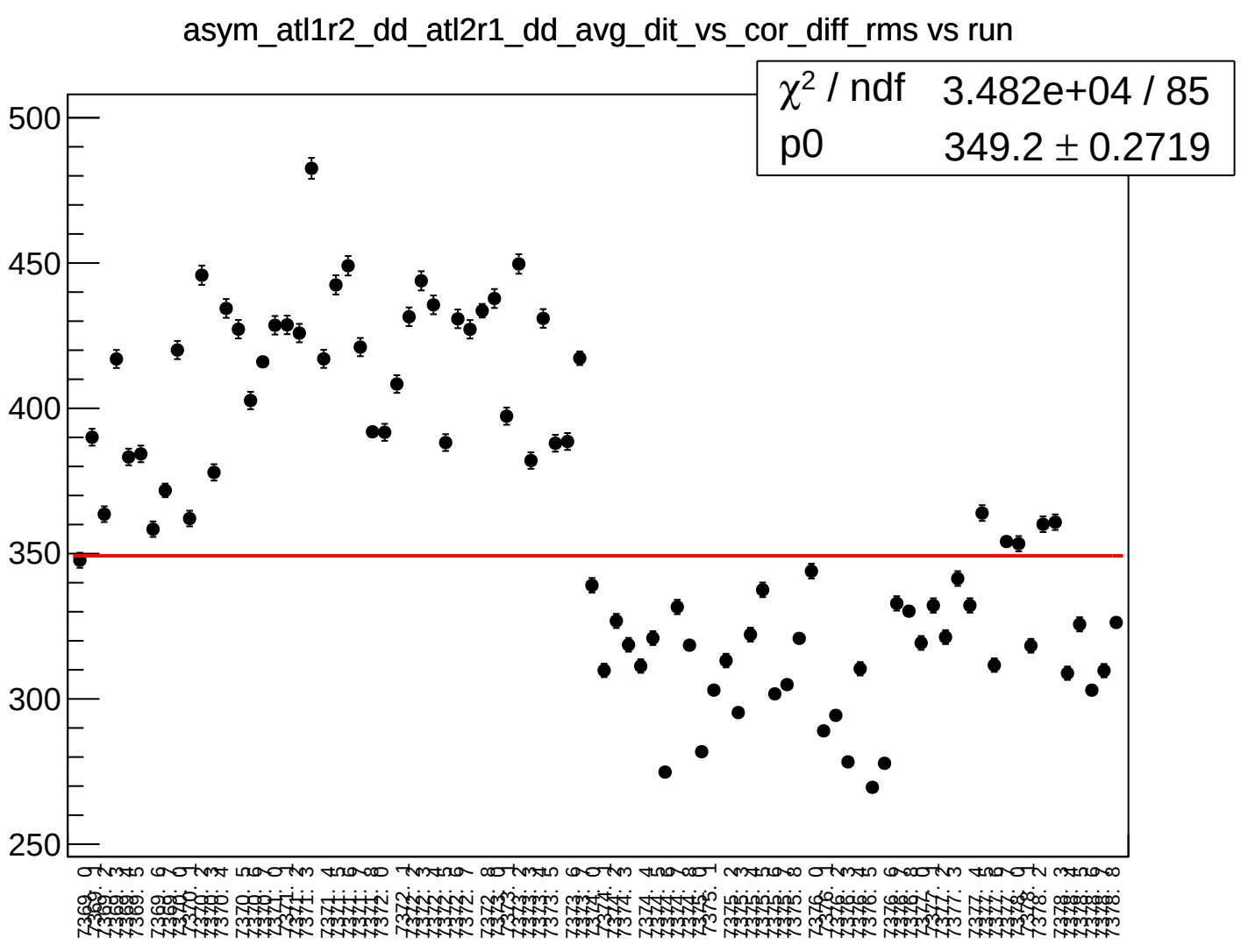

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 85.11 / 85
p0 1222 ± 0.942
1250
1240
1230
1220
1210
1200
1190

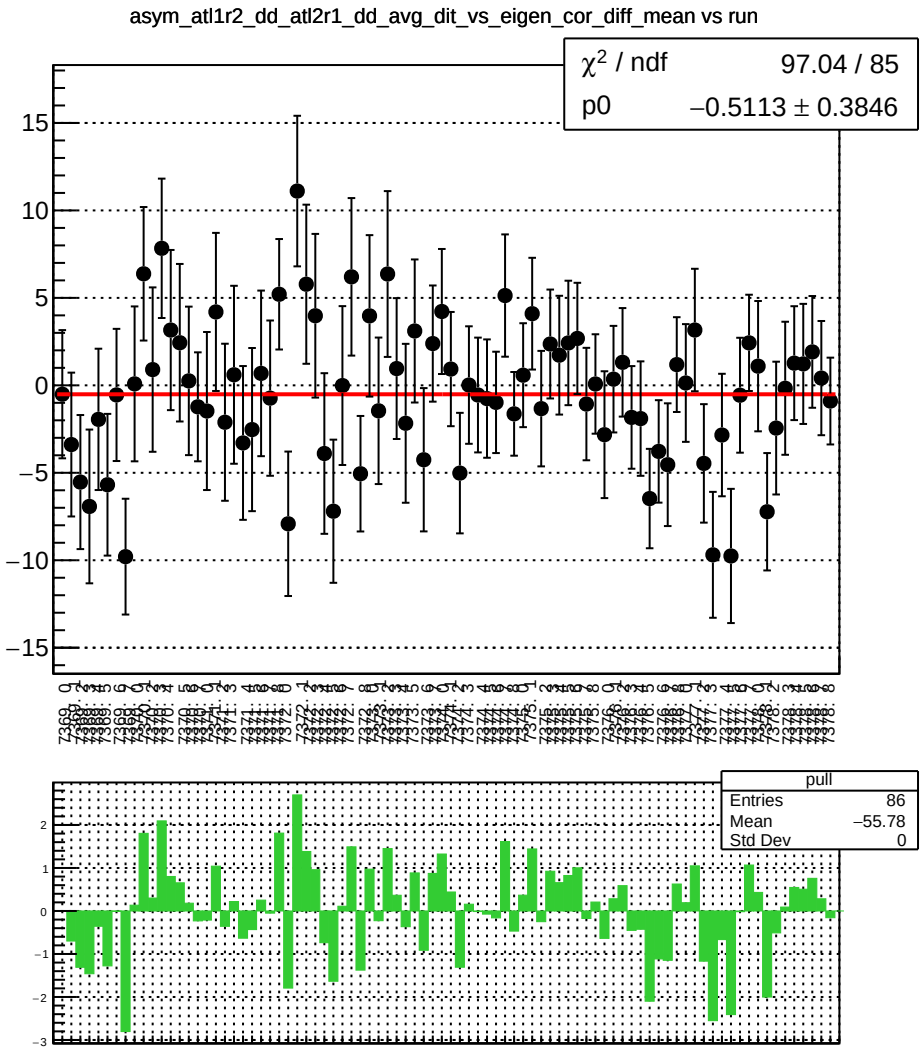

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.88 / 85
p0 −7.08e−15 ± 4.852e−15
pull
Entries 86
Mean 39.57
Std Dev 18.27
pull1D
Entries 86
Mean −0.1439
Std Dev 0.9345

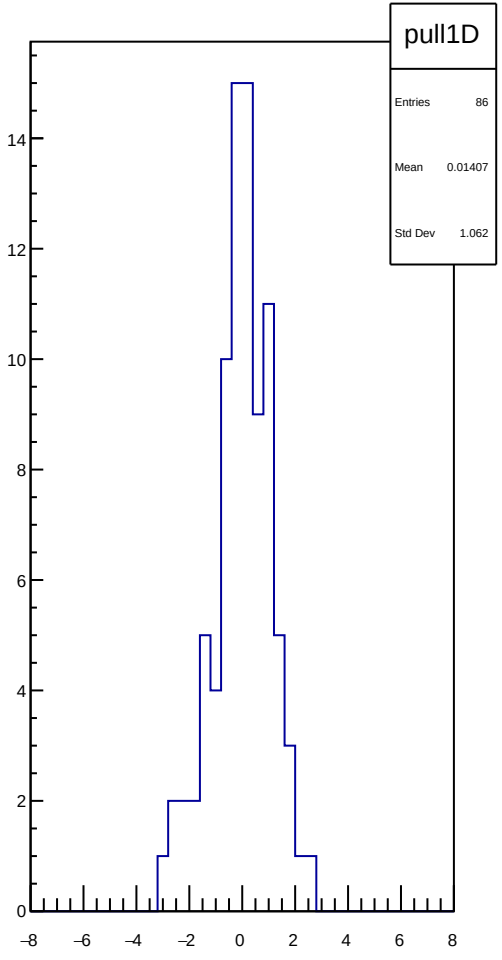

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.453e+06 / 85
p0 1.649e−12 ± 3.431e−15
1
0.8
0.6
0.4
0.2
0

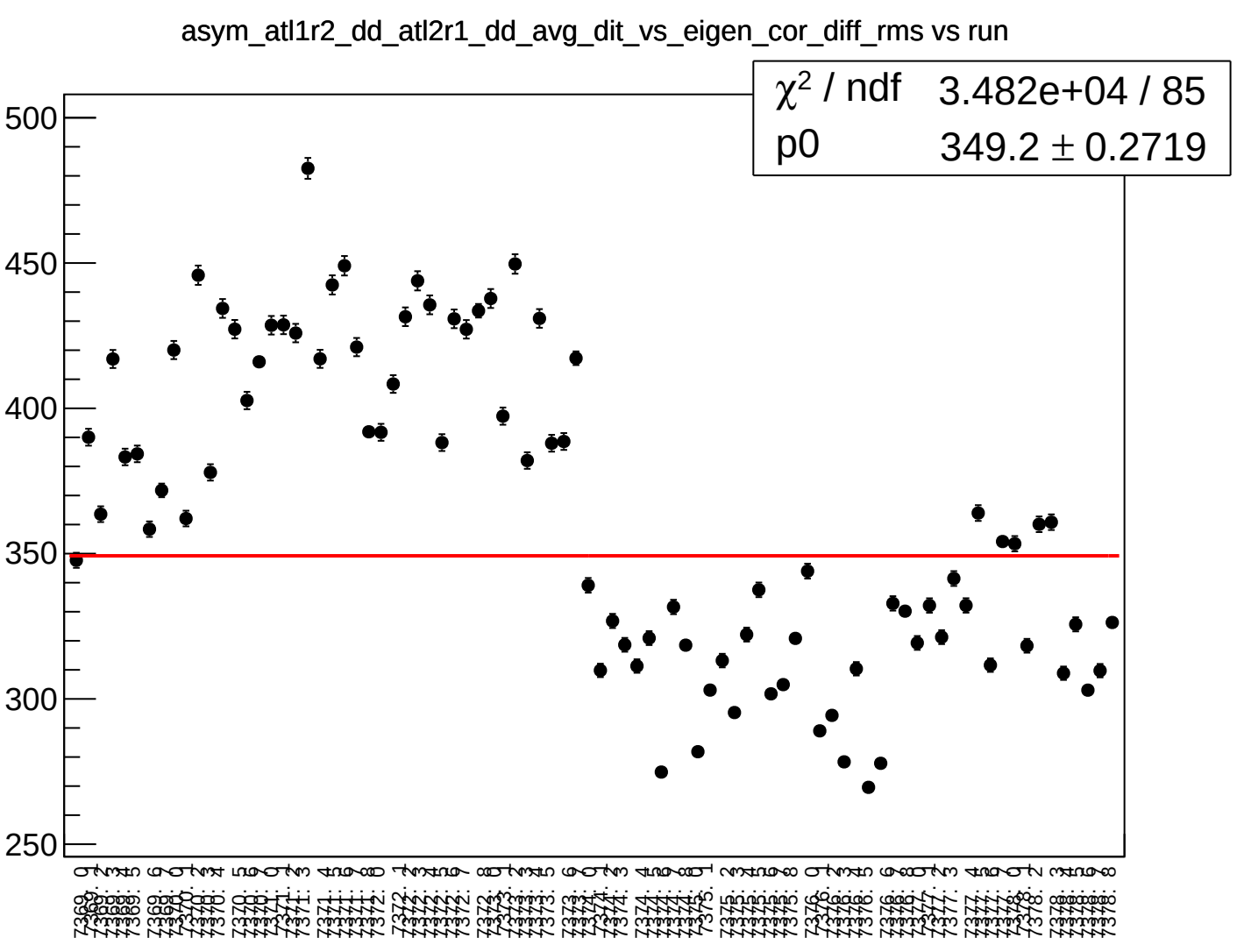

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.04 / 85
p0 −0.5113 ± 0.3846
pull
Entries 86
Mean −55.78
Std Dev 0

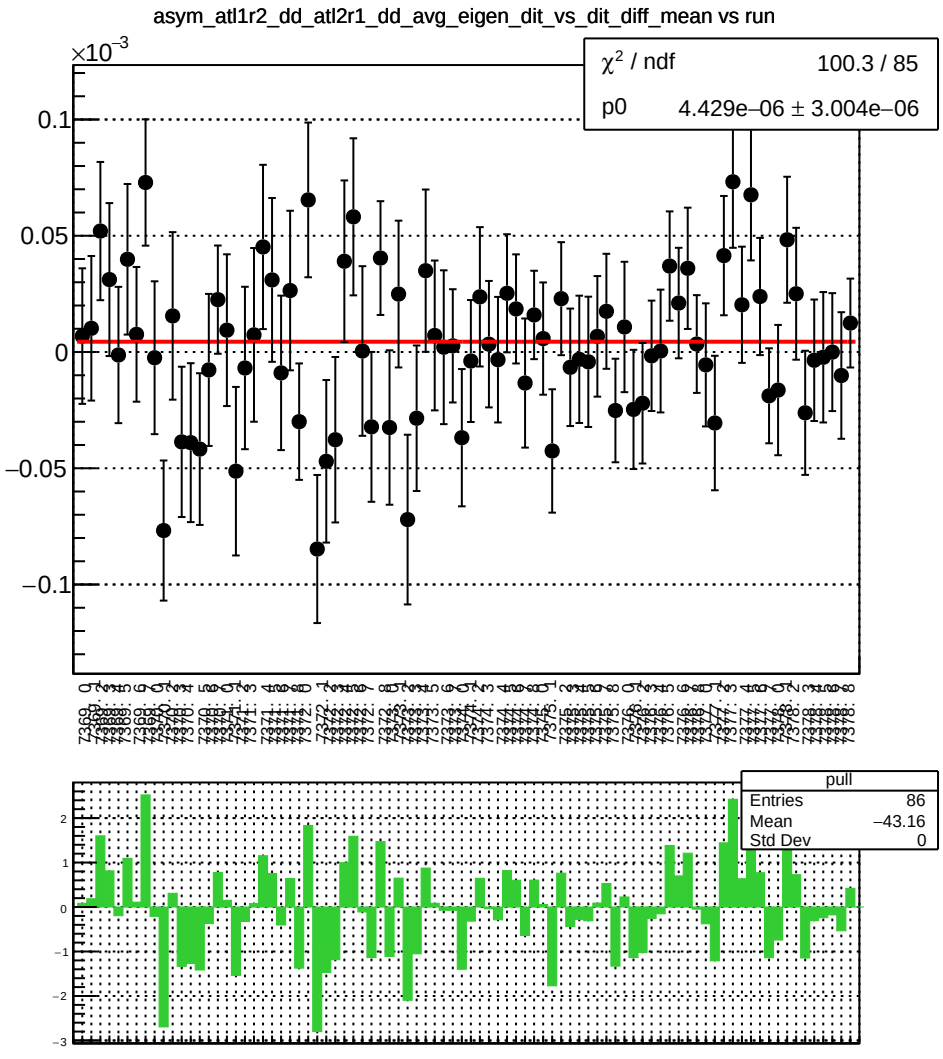

pull1D
Entries 86
Mean 0.01407
Std Dev 1.062

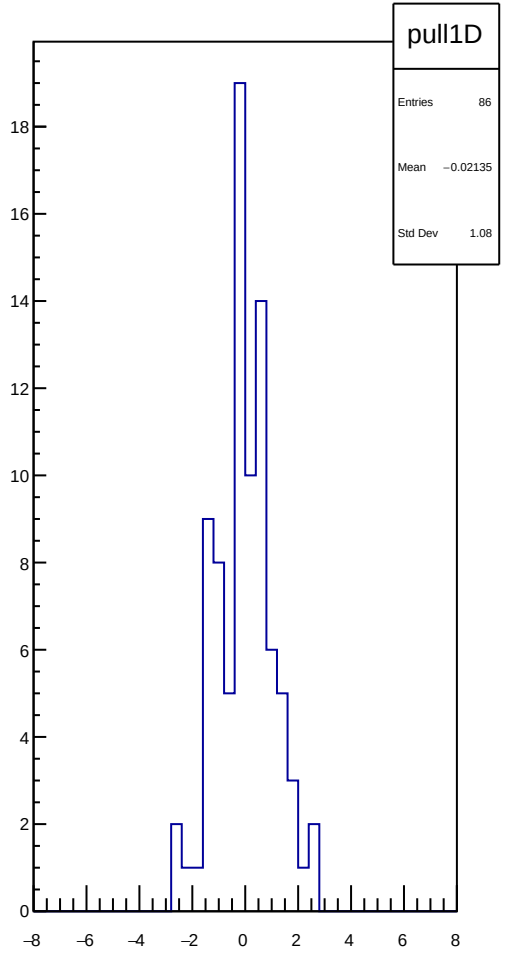

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.482e+04 / 85
p0 349.2 ± 0.2719
500
450
400
350
300
250

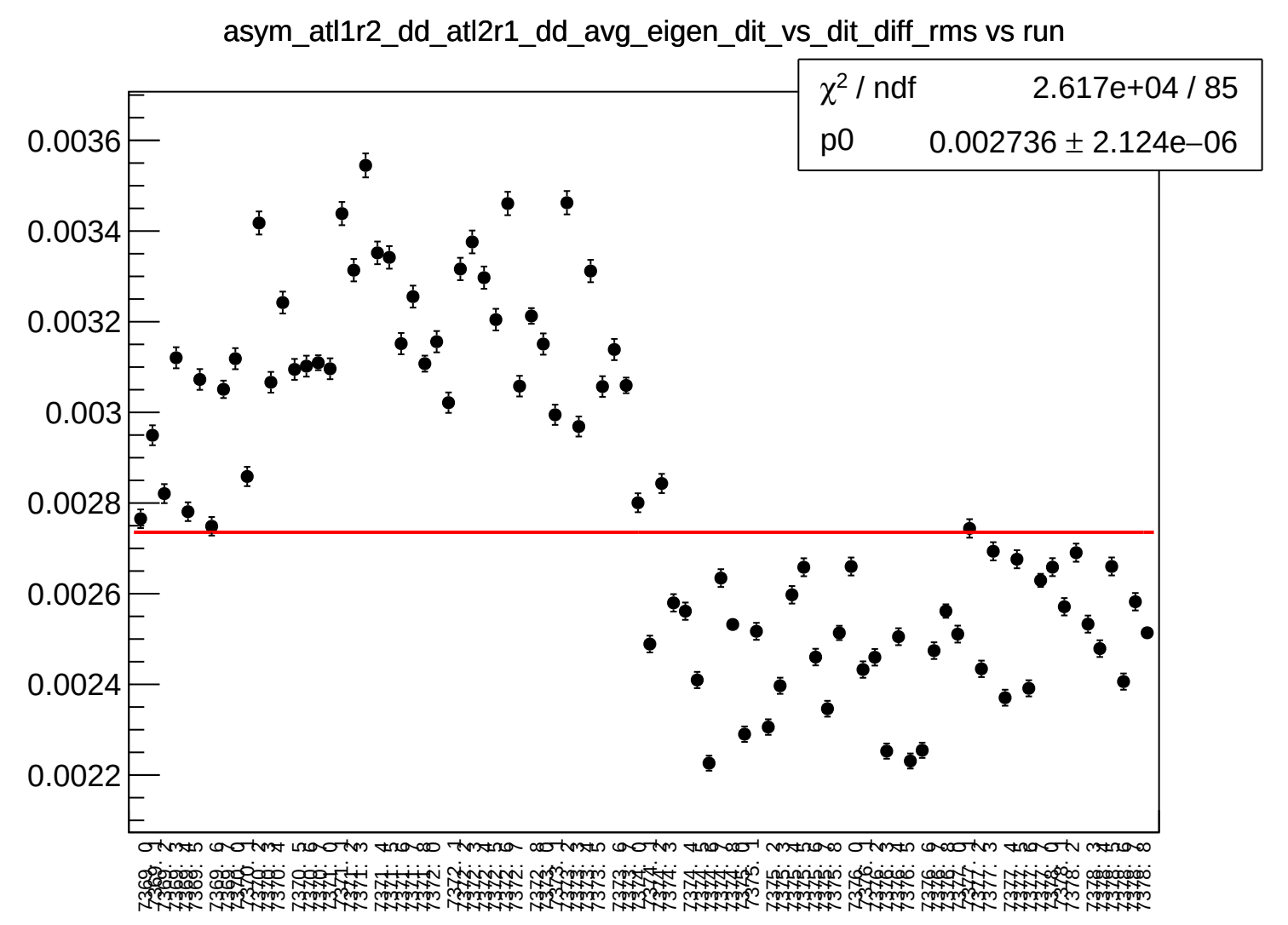

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.04 / 85
p0 −0.5113 ± 0.3846
pull
Entries 86
Mean −55.78
Std Dev 0

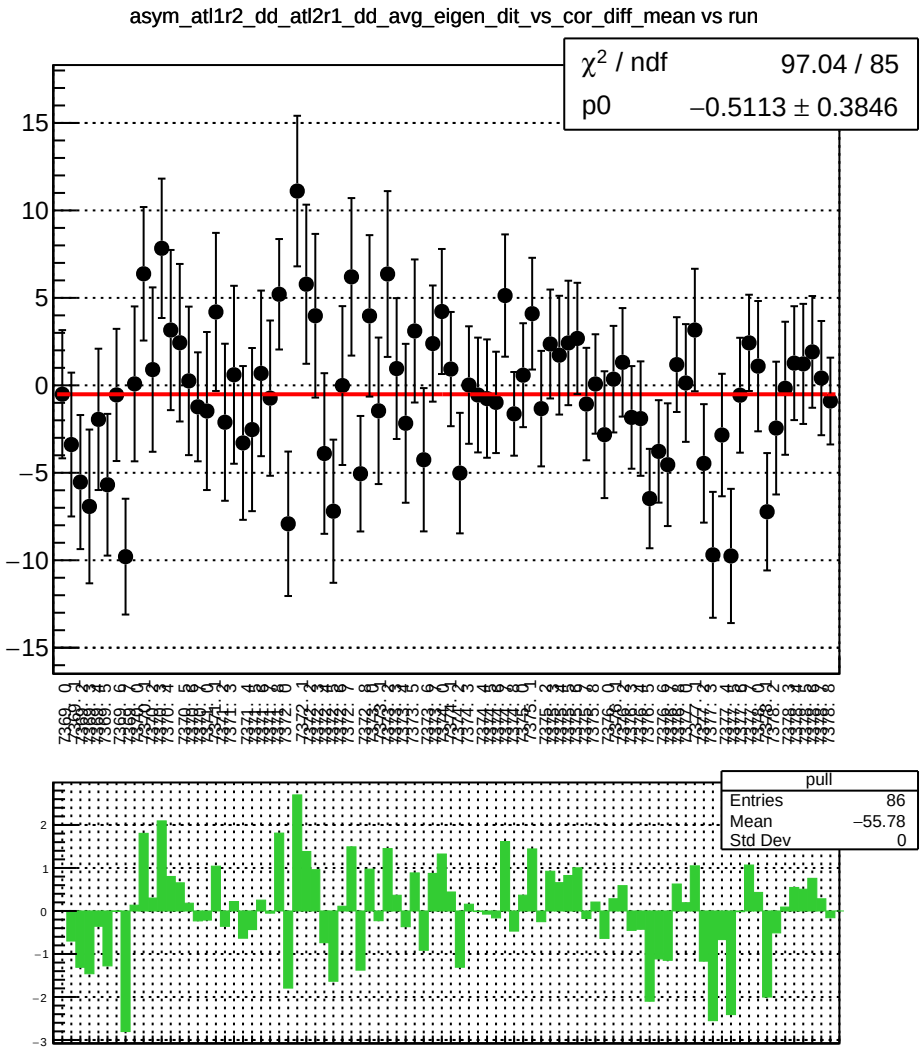

pull1D
Entries 86
Mean 0.01407
Std Dev 1.062

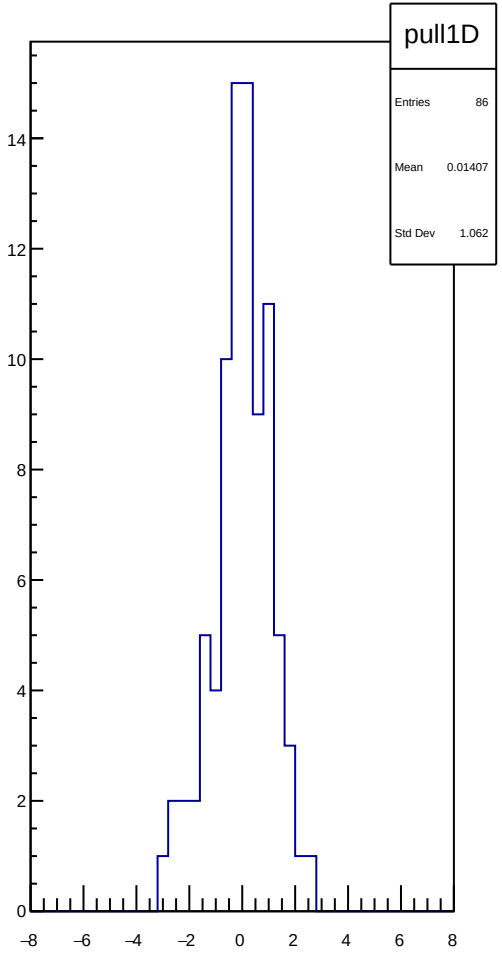

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.482e+04 / 85
p0 349.2 ± 0.2719
500
450
400
350
300
250

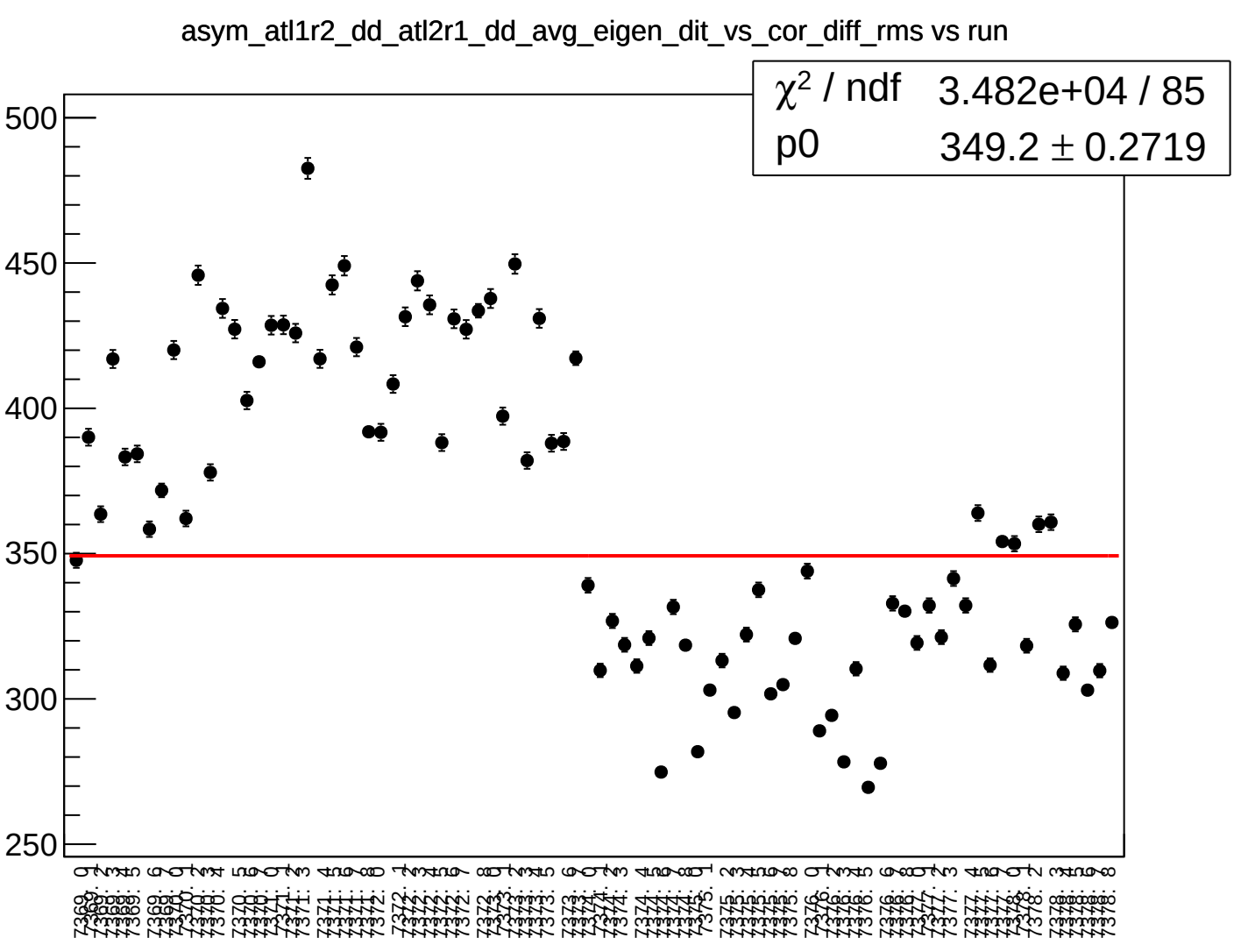

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 100.3 / 85
p0 4.429e−06 ± 3.004e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −43.16
Std Dev 0
2
1
0
−1
−2
−3

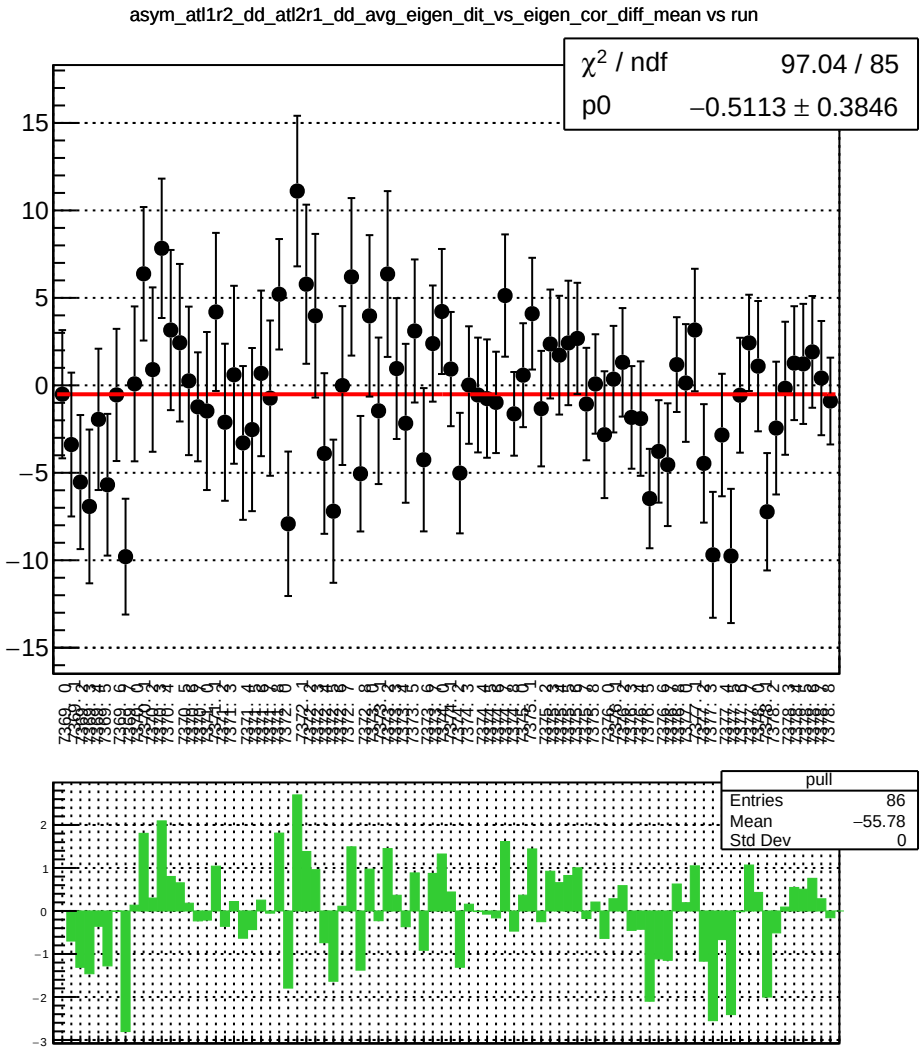

pull1D
Entries 86
Mean −0.02135
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

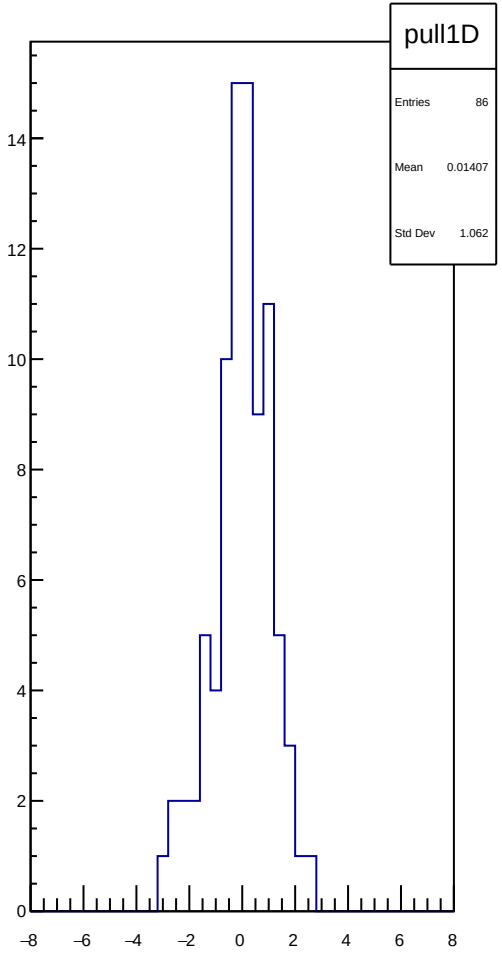

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.617e+04 / 85
p0 0.002736 ± 2.124e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

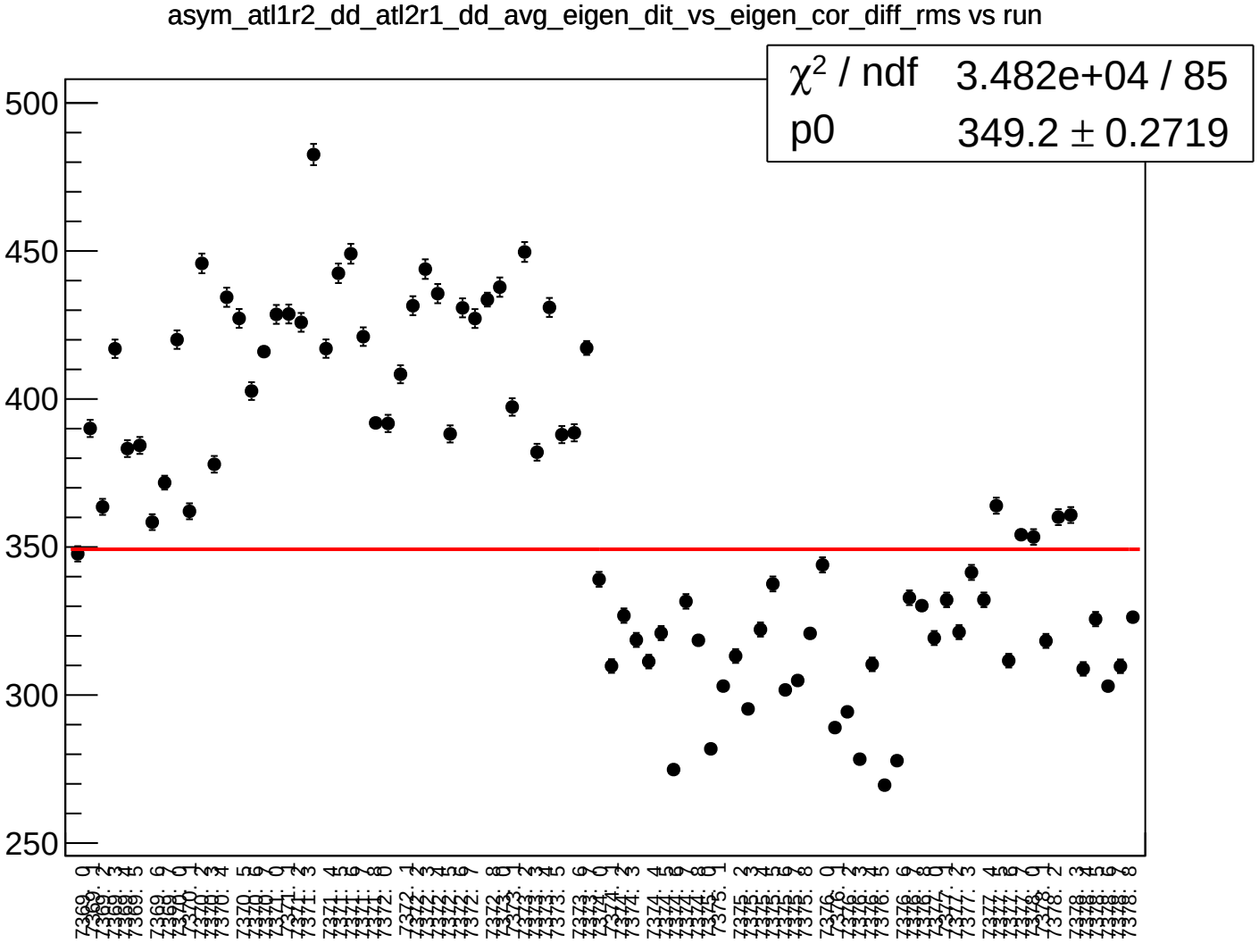

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.04 / 85
p0 −0.5113 ± 0.3846
pull
Entries 86
Mean −55.78
Std Dev 0

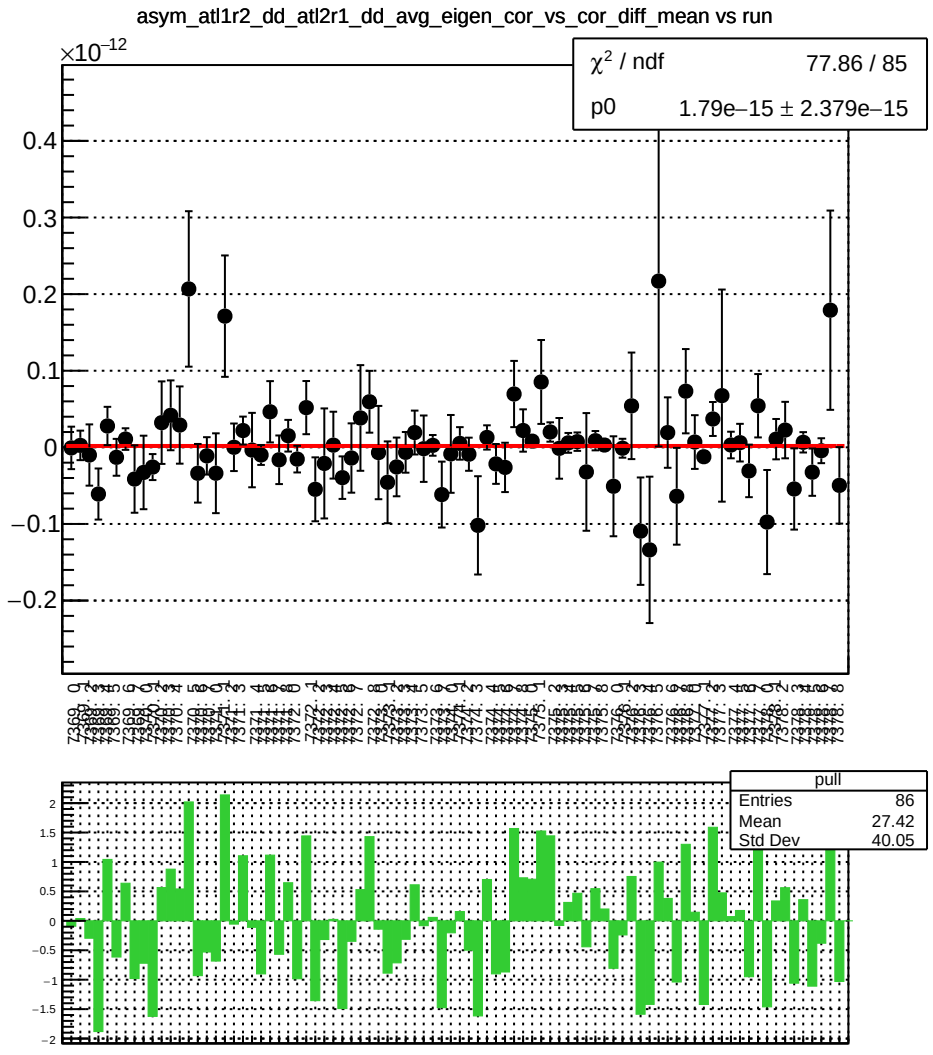

pull1D
Entries 86
Mean 0.01407
Std Dev 1.062

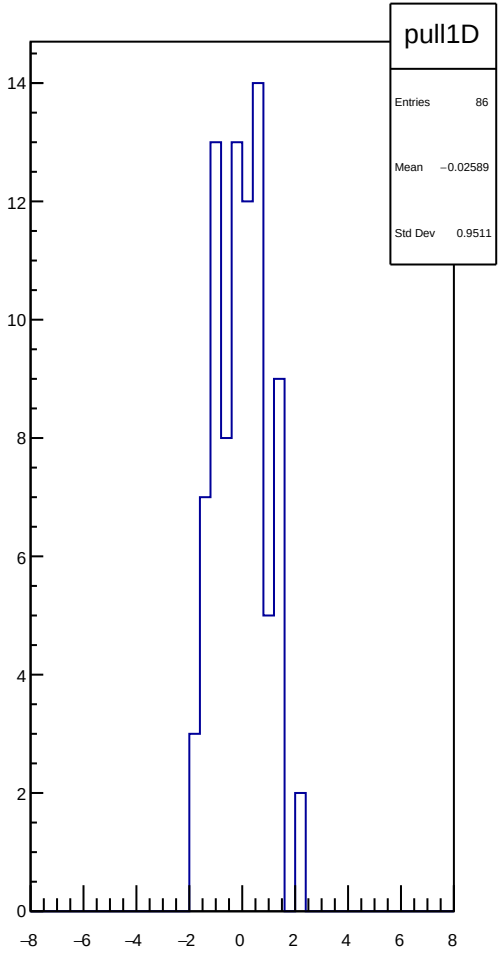

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.482e+04 / 85
p0 349.2 ± 0.2719
500
450
400
350
300
250

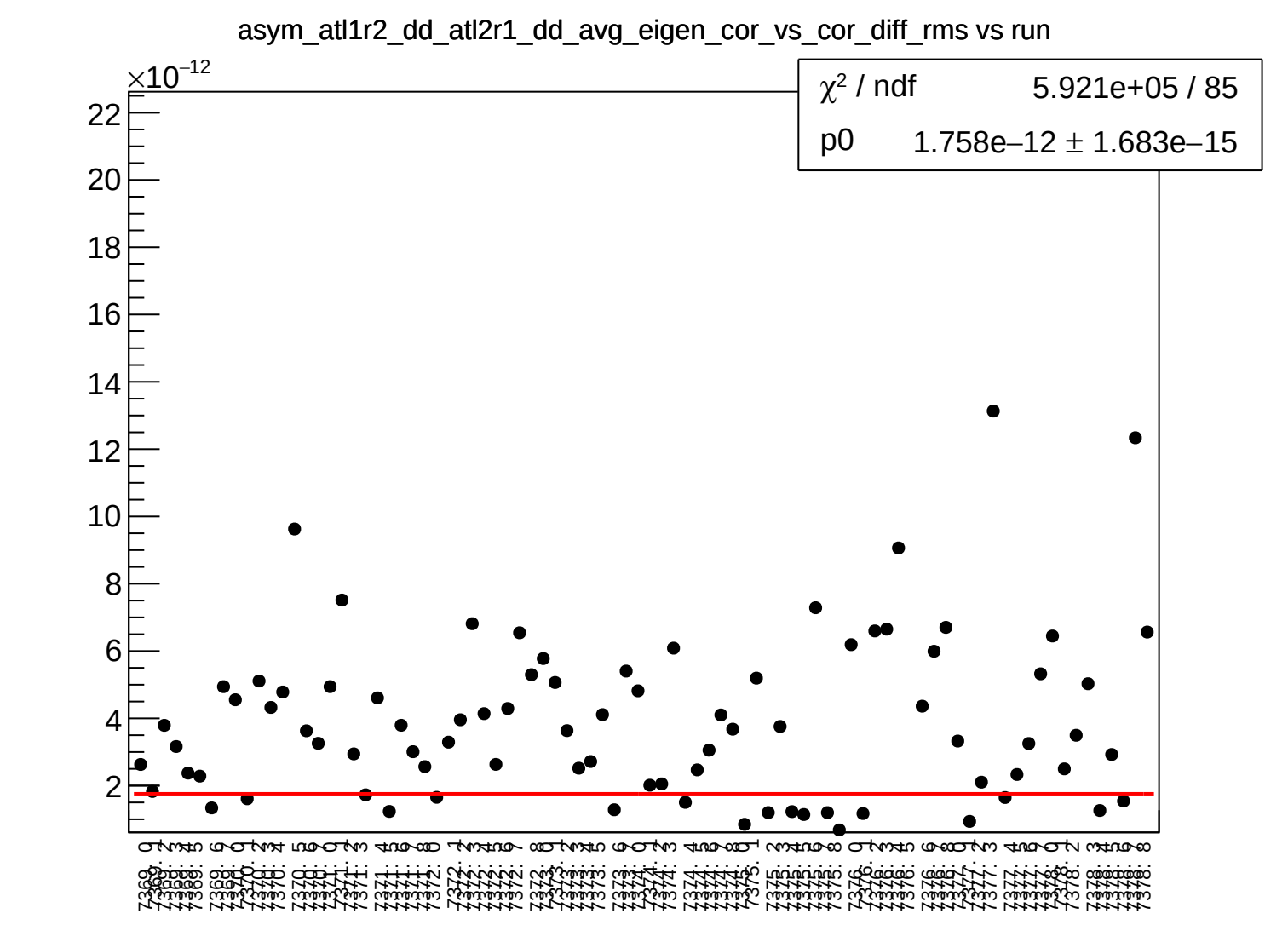

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.04 / 85
p0 −0.5113 ± 0.3846
pull
Entries 86
Mean −55.78
Std Dev 0

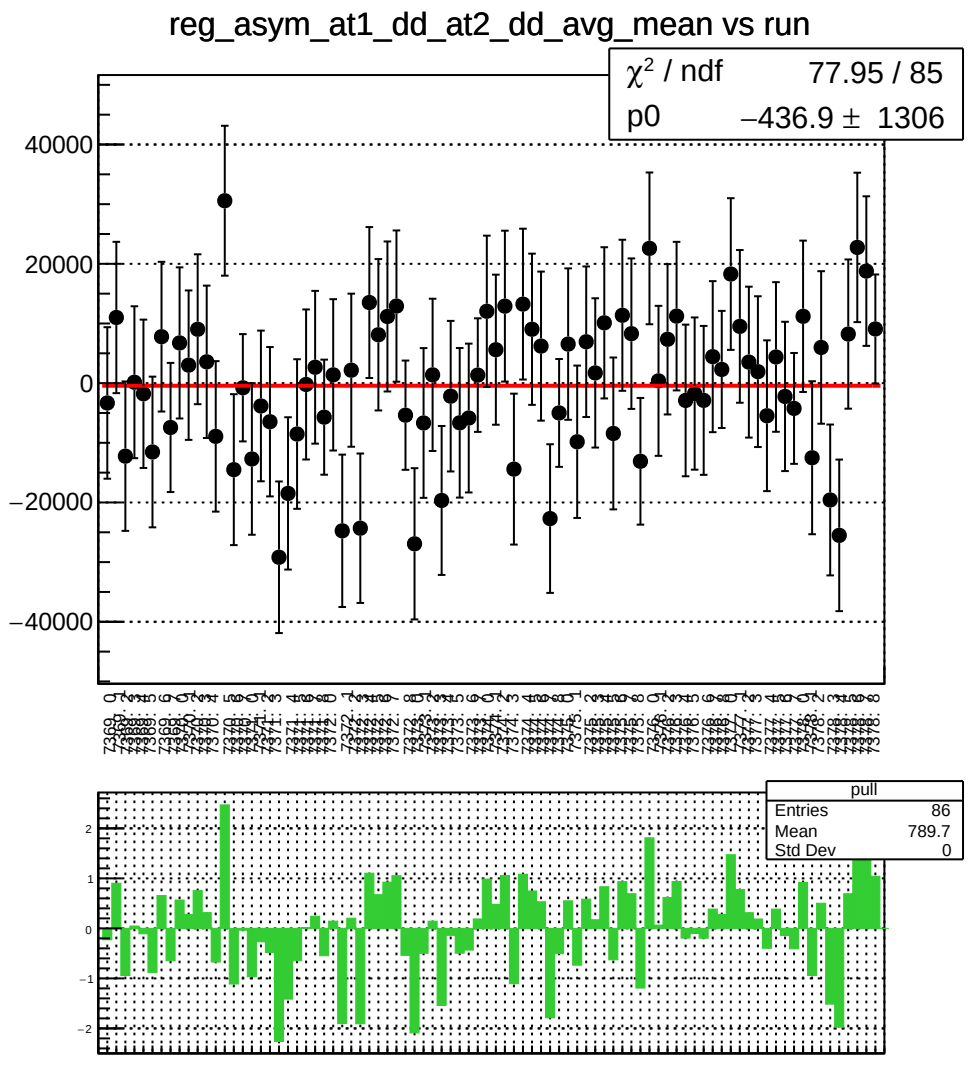

pull1D
Entries 86
Mean 0.01407
Std Dev 1.062

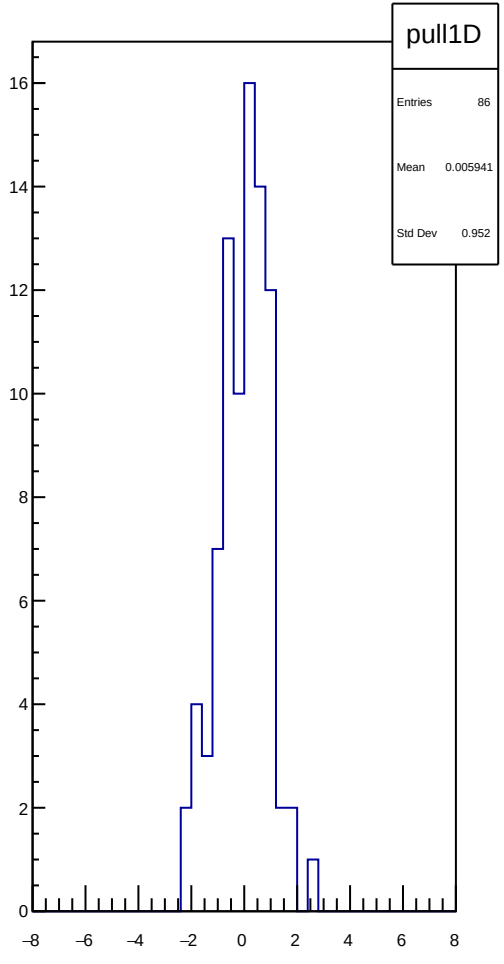

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.482e+04 / 85
p0 349.2 ± 0.2719
500
450
400
350
300
250

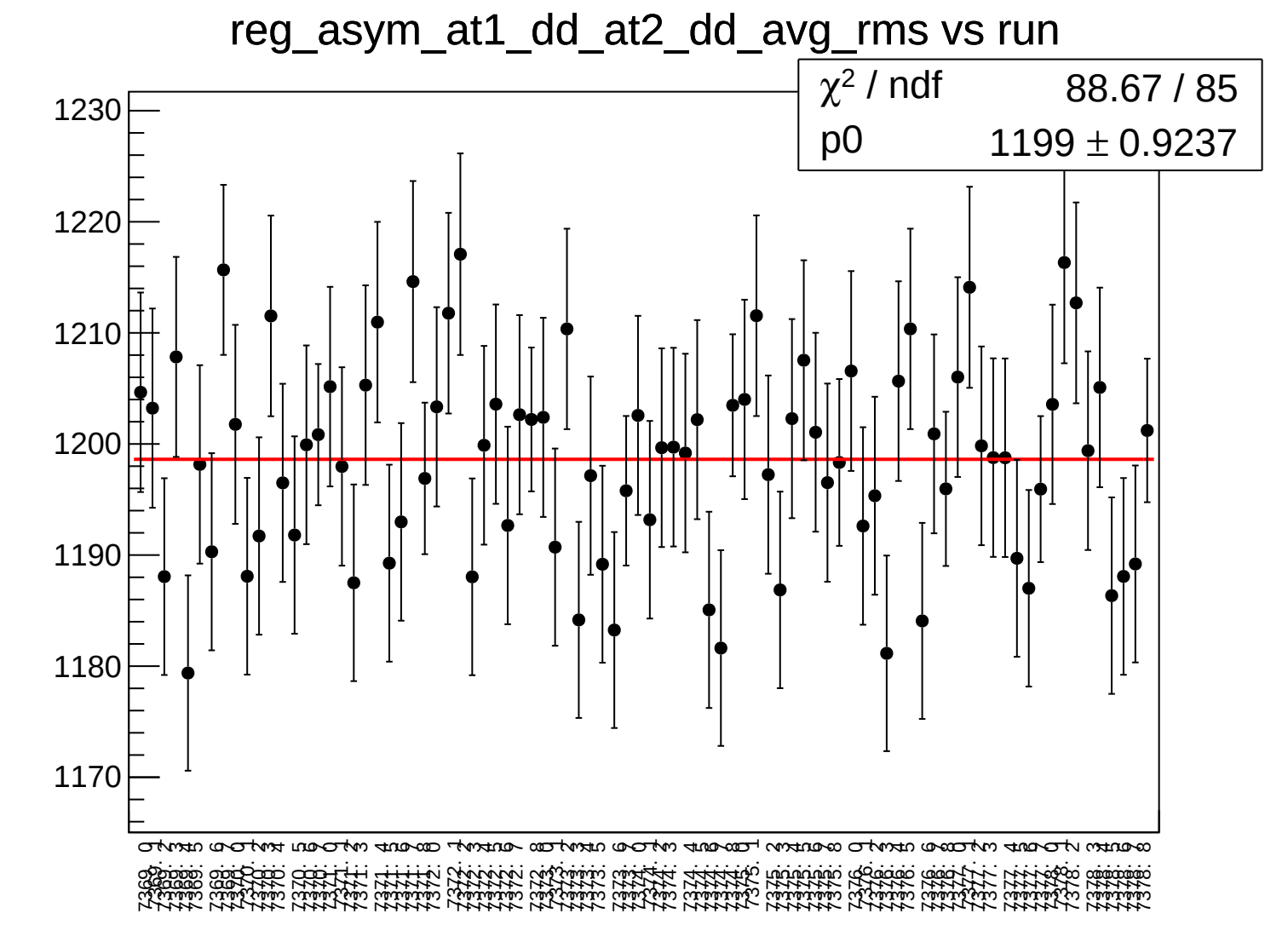

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.86 / 85
p0 1.79e−15 ± 2.379e−15
pull
Entries 86
Mean 27.42
Std Dev 40.05

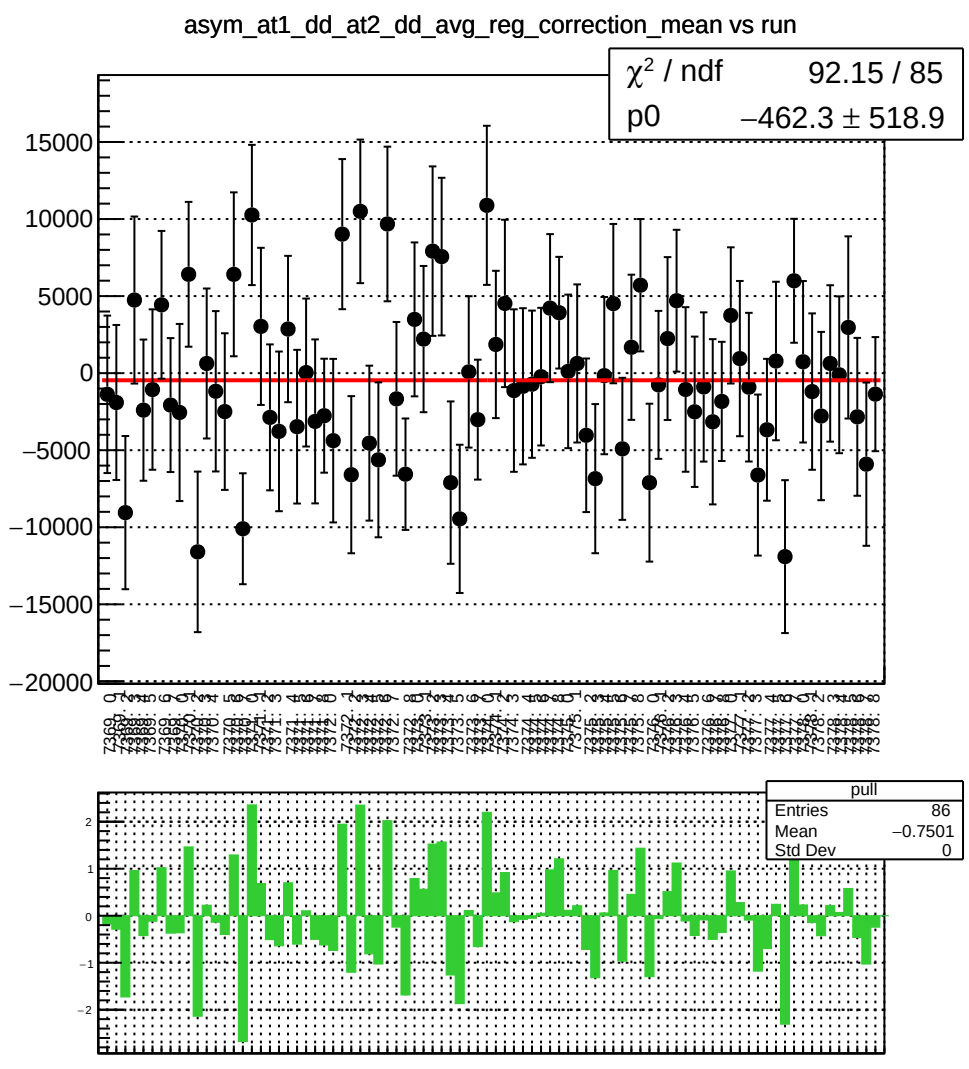

pull1D
Entries 86
Mean −0.02589
Std Dev 0.9511

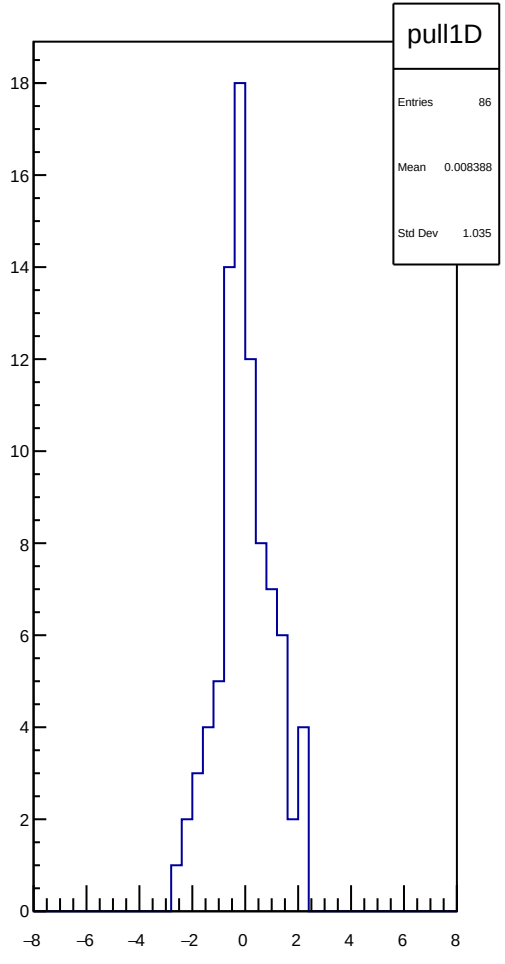

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.921e+05 / 85
p0 1.758e−12 ± 1.683e−15
22
20
18
16
14
12
10
8
6
4
2

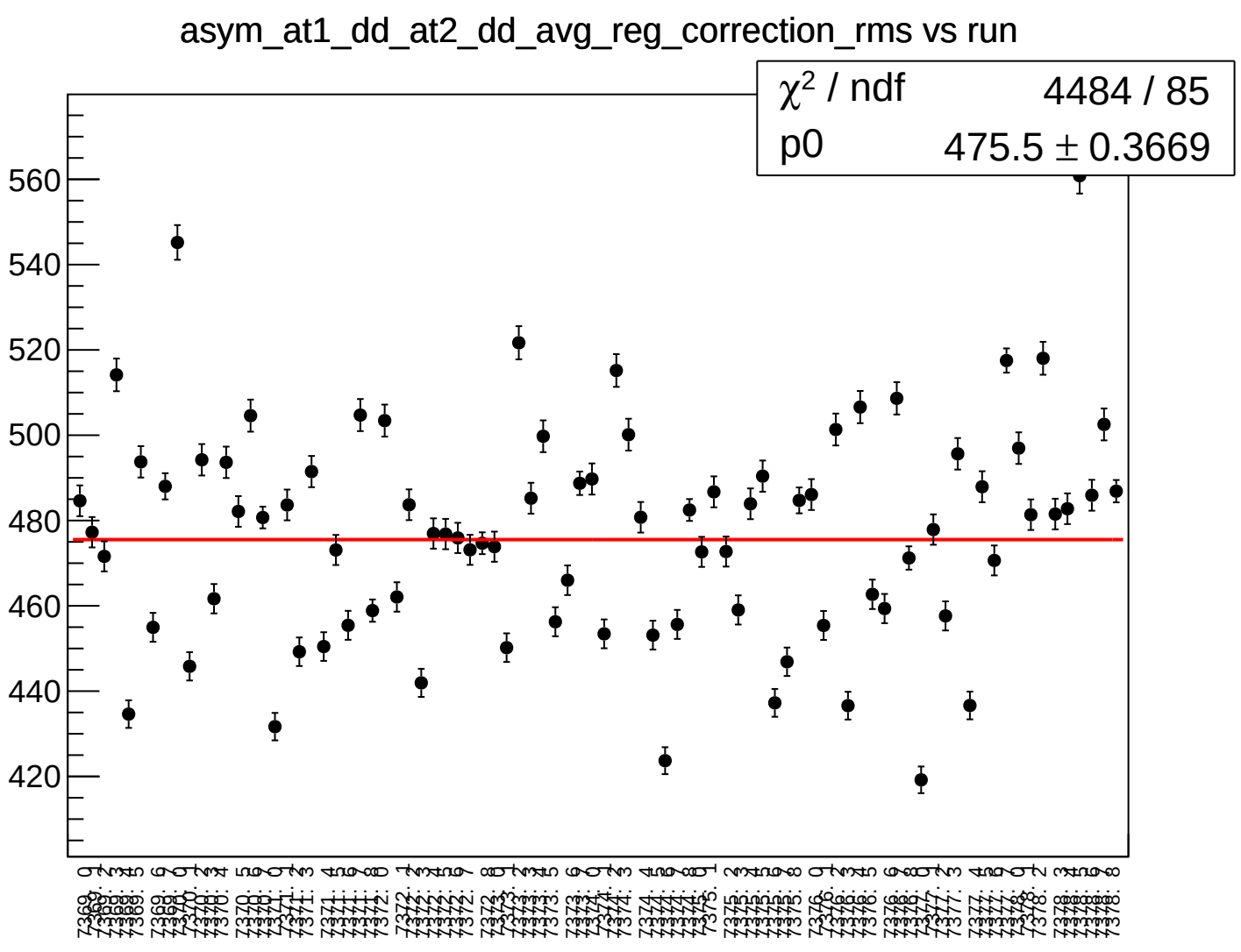

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 77.95 / 85
p0 −436.9 ± 1306
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 789.7
Std Dev 0
2
1
0
−1
−2

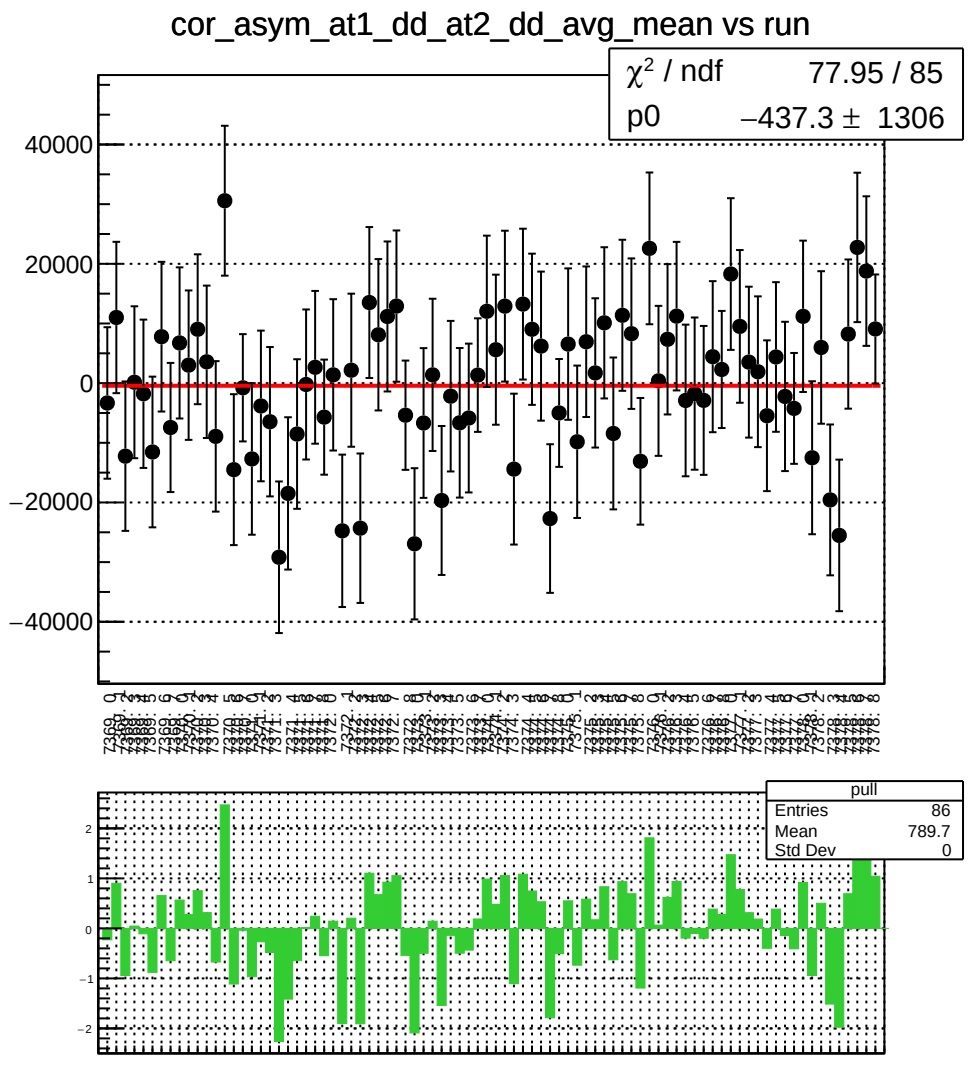

pull1D
Entries 86
Mean 0.005941
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

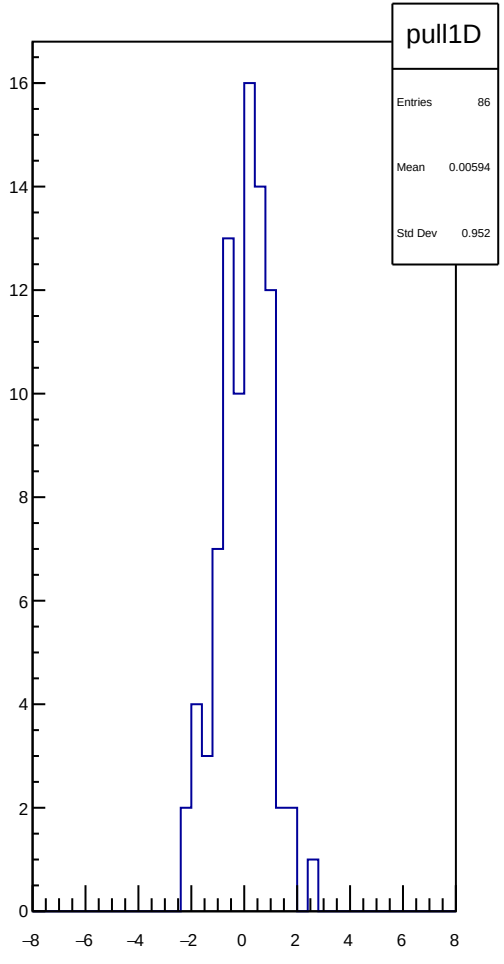

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 88.67 / 85
p0 1199 ± 0.9237
1230
1220
1210
1200
1190
1180
1170

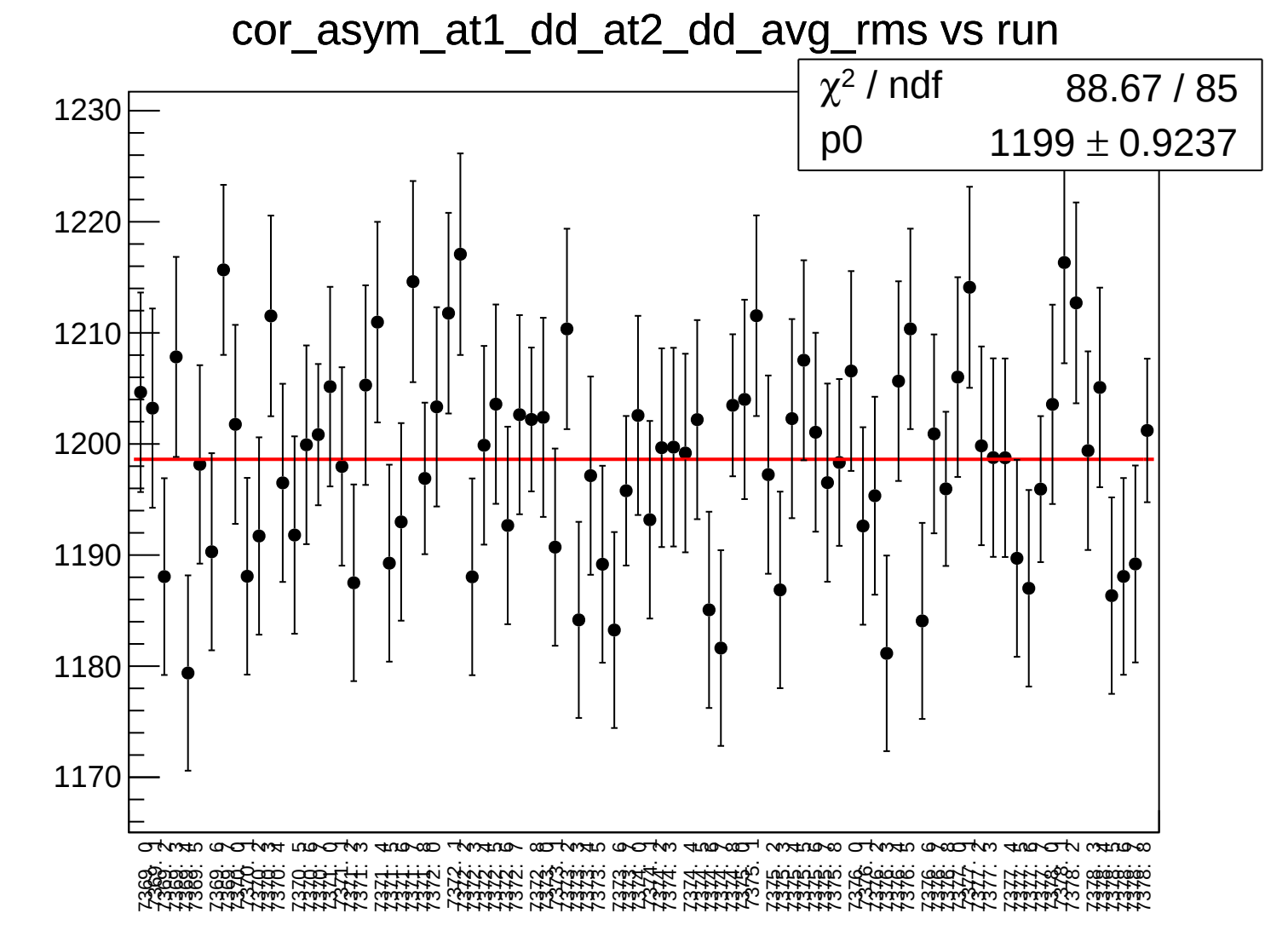

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 92.15 / 85
p0 −462.3 ± 518.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −0.7501
Std Dev 0
2
1
0
−1
−2

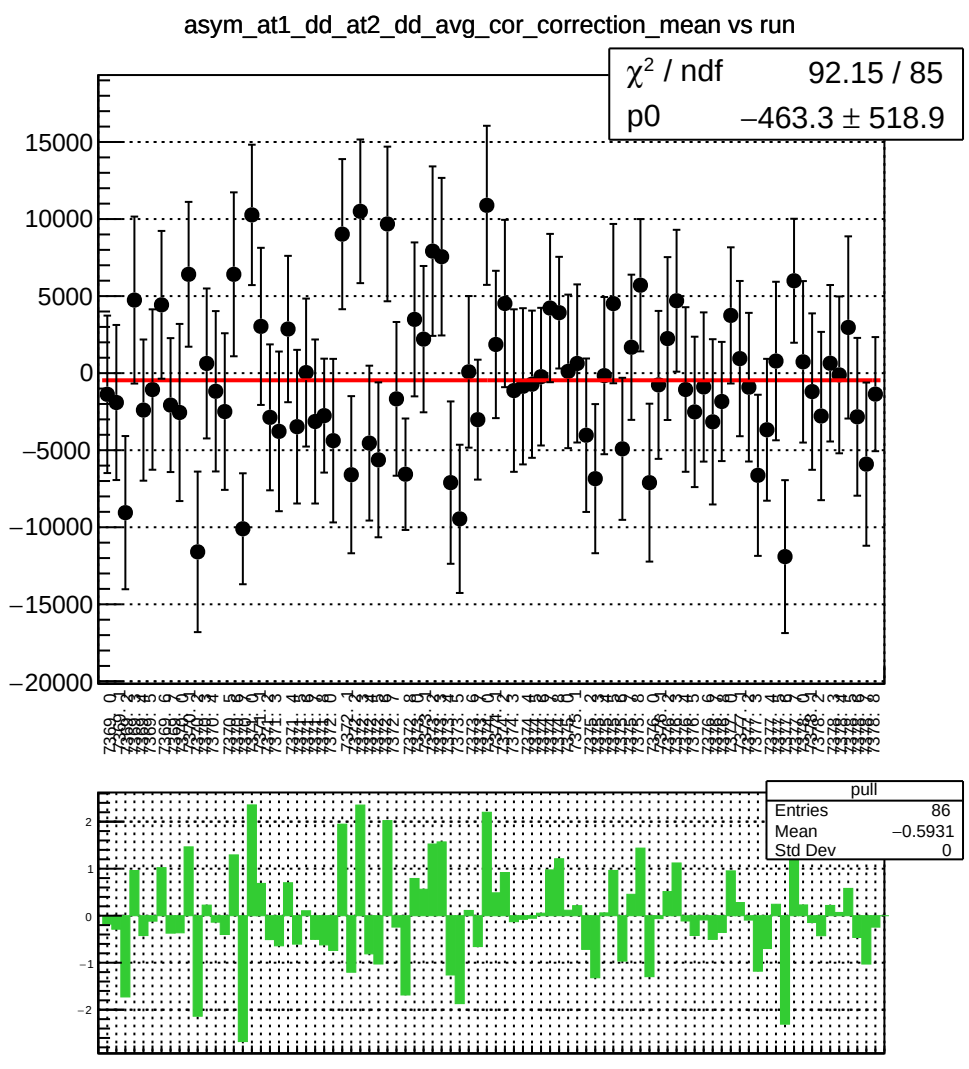

pull1D
Entries 86
Mean 0.008388
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

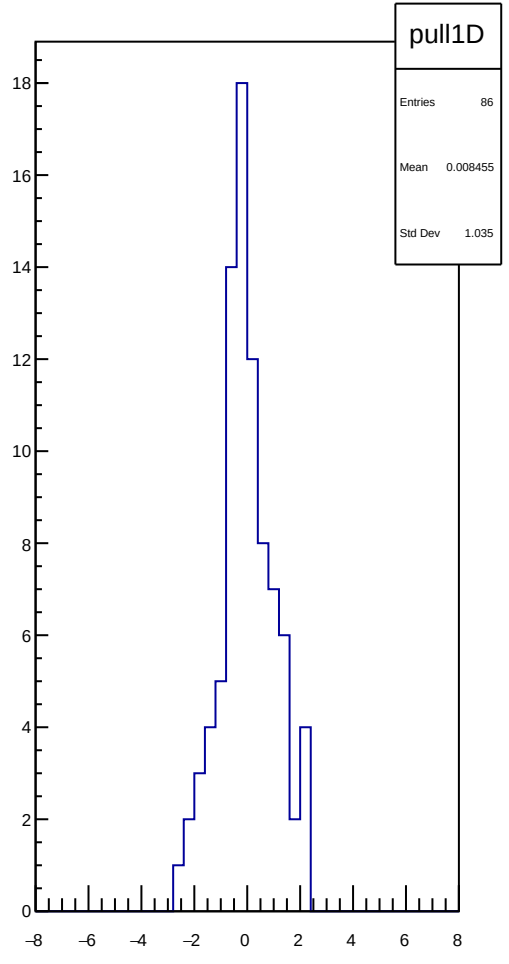

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 4484 / 85
p0 475.5 ± 0.3669
560
540
520
500
480
460
440
420

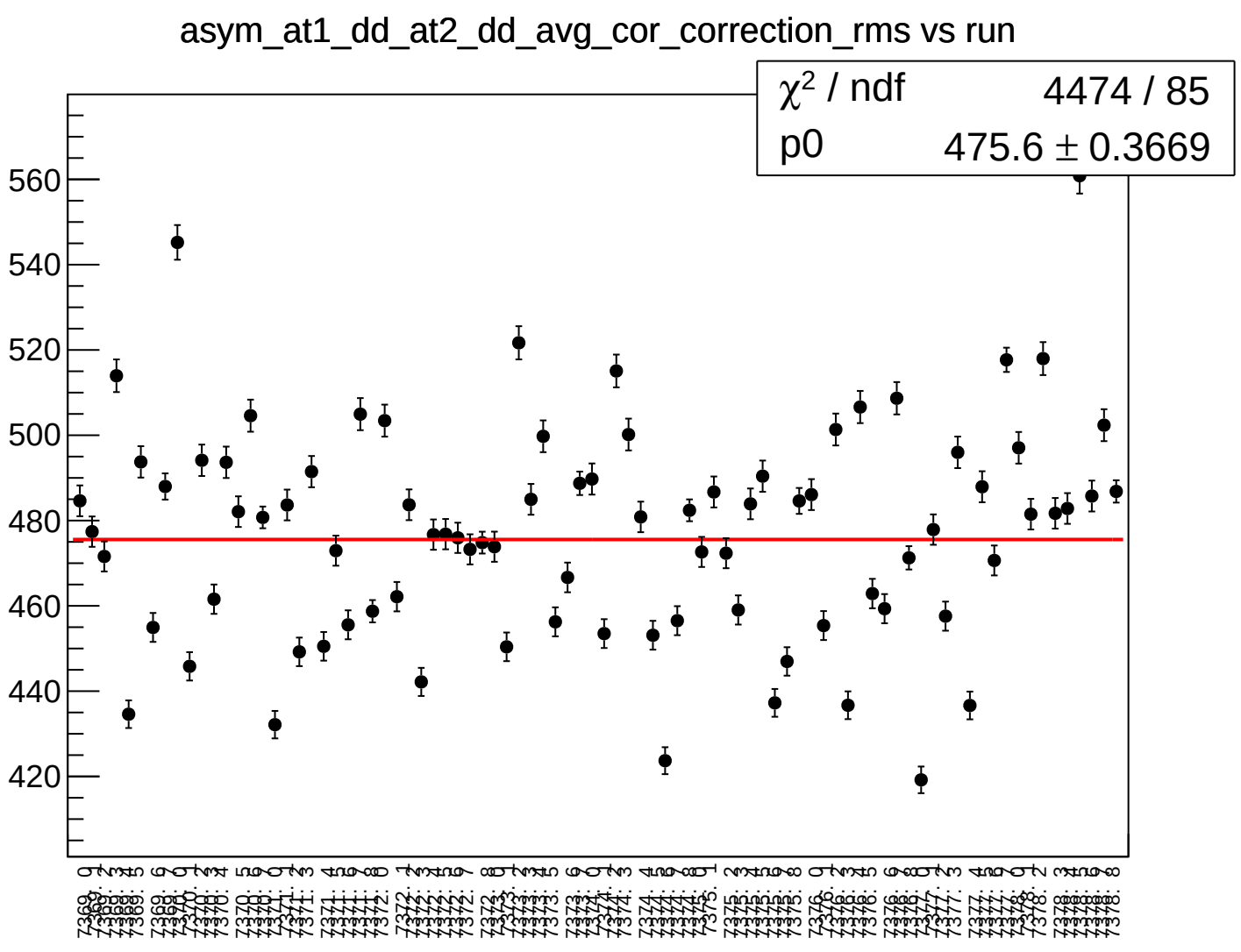

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 77.95 / 85
p0 −437.3 ± 1306
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 789.7
Std Dev 0
2
1
0
−1
−2

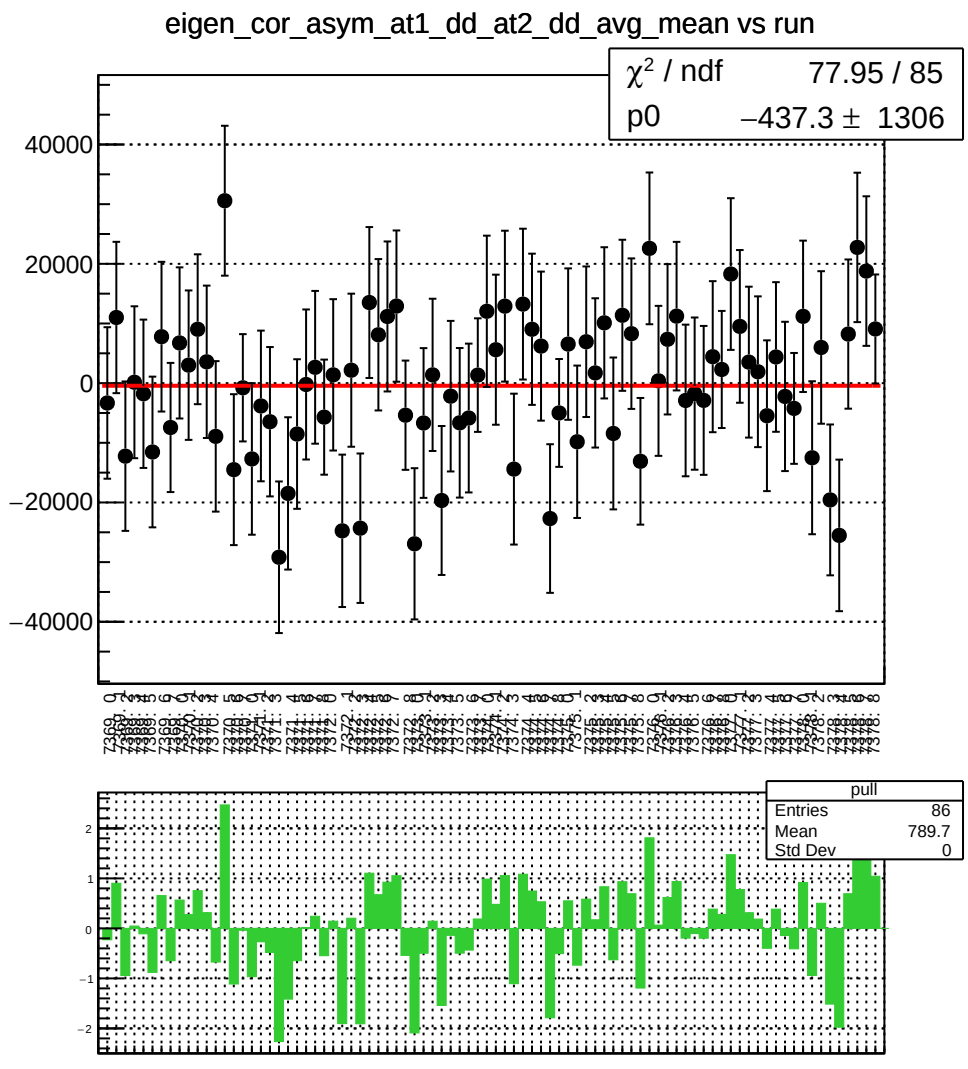

pull1D
Entries 86
Mean 0.00594
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

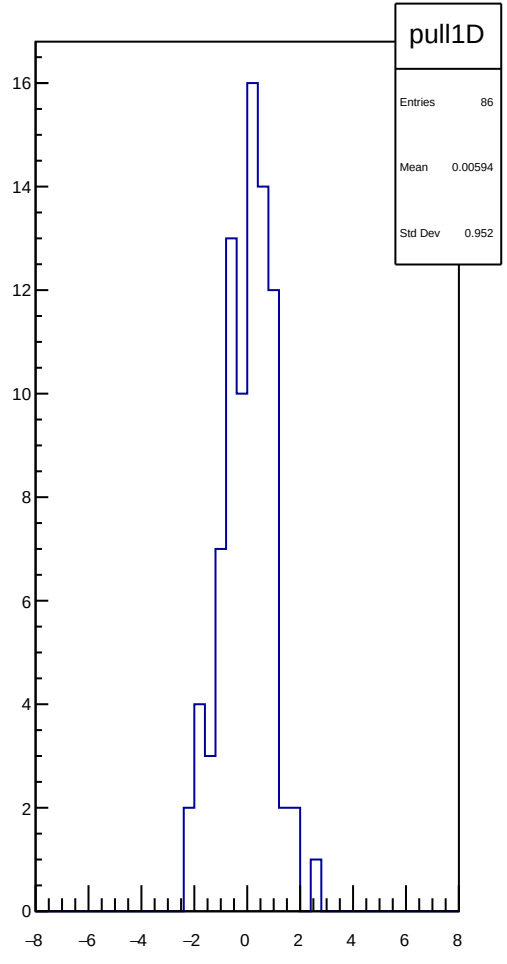

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 88.67 / 85
p0 1199 ± 0.9237
1230
1220
1210
1200
1190
1180
1170

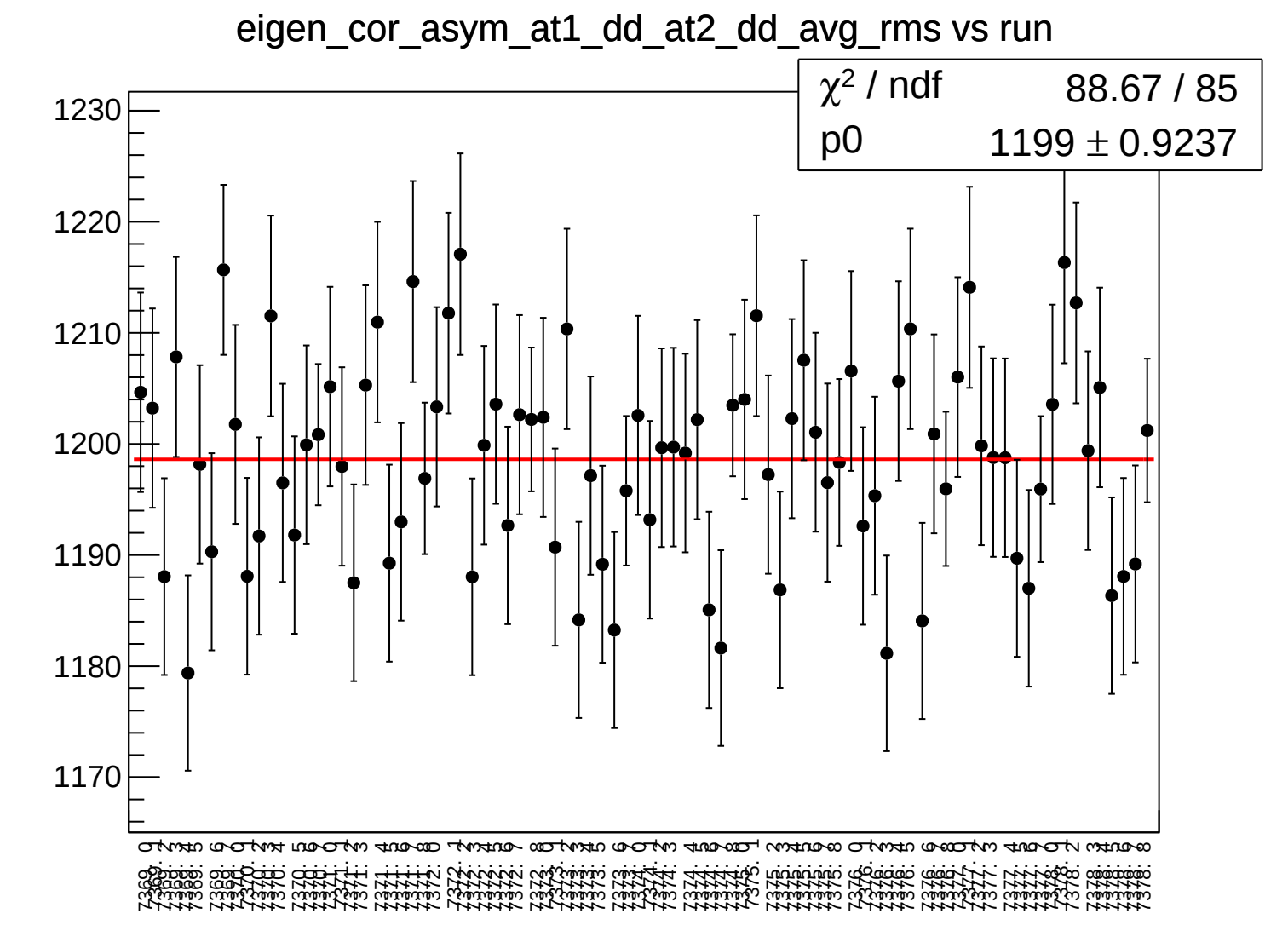

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 92.15 / 85
p0 −463.3 ± 518.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −0.5931
Std Dev 0
2
1
0
−1
−2

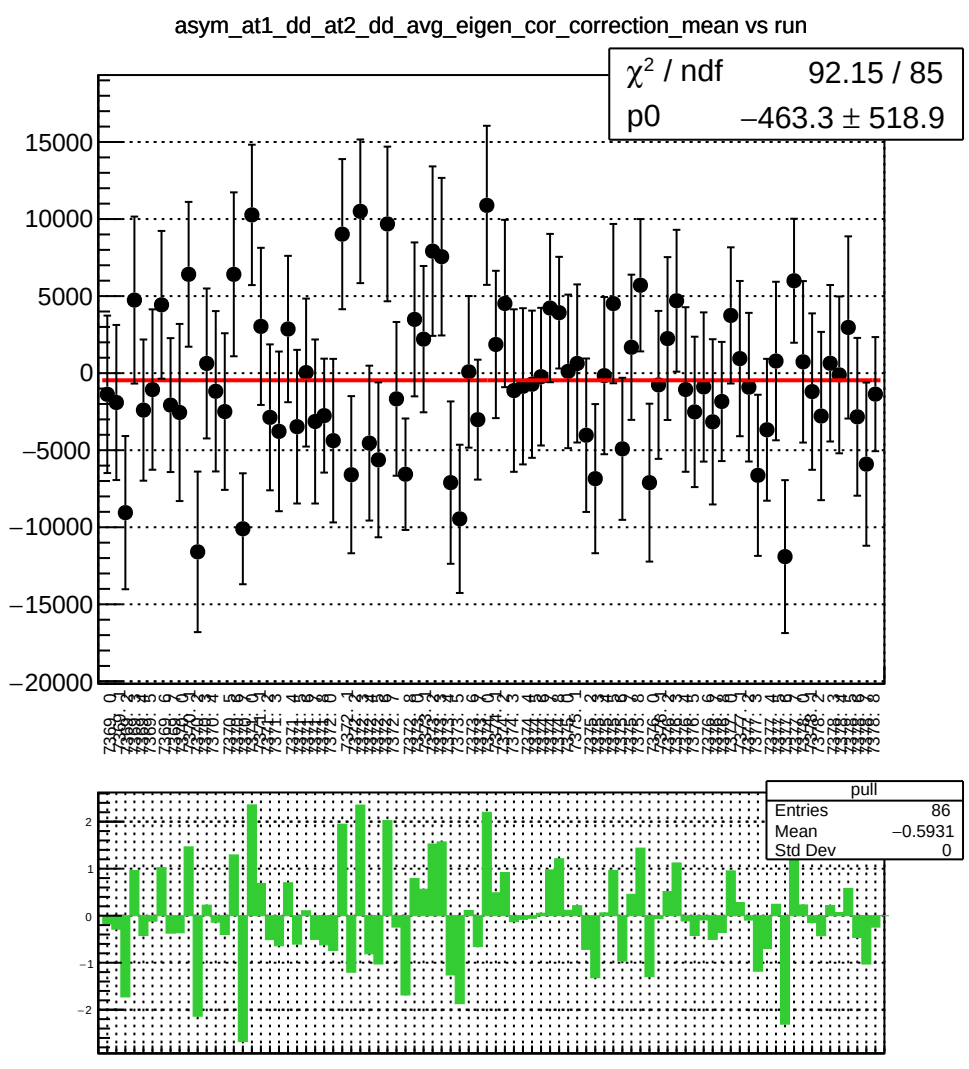

pull1D
Entries 86
Mean 0.008455
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

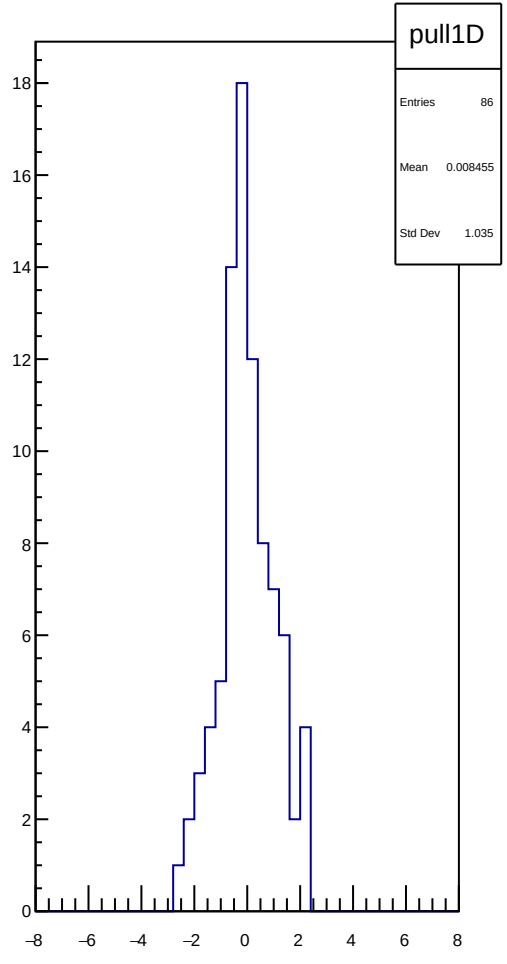

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 4474 / 85
p0 475.6 ± 0.3669
560
540
520
500
480
460
440
420

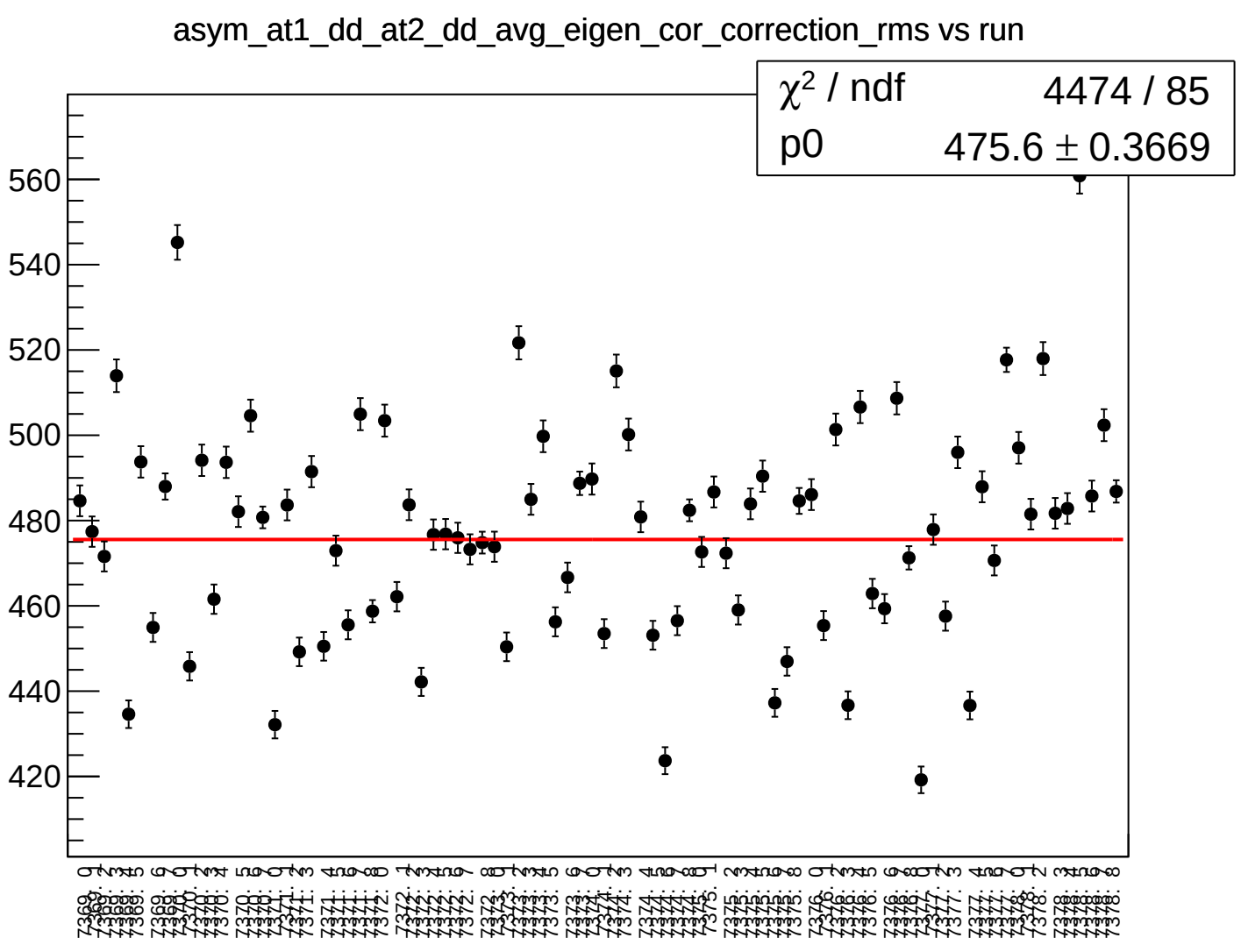

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 77.95 / 85
p0 −437.3 ± 1306
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 789.7
Std Dev 0
2
1
0
−1
−2

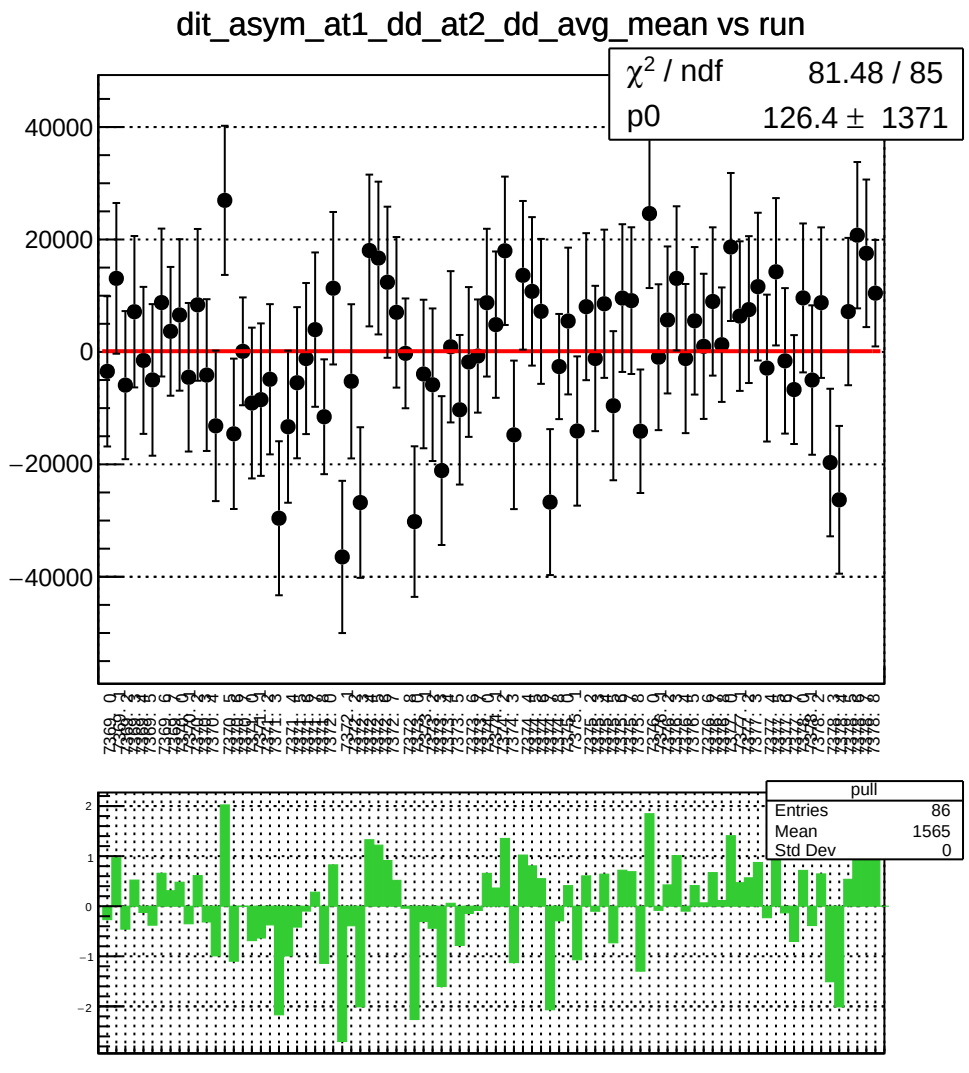

pull1D
Entries 86
Mean 0.00594
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

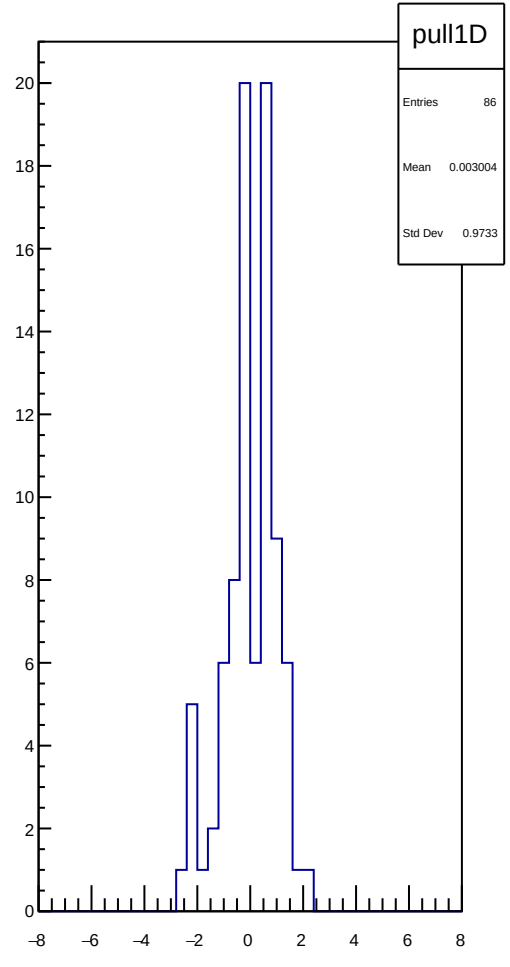

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 88.67 / 85
p0 1199 ± 0.9237
1230
1220
1210
1200
1190
1180
1170

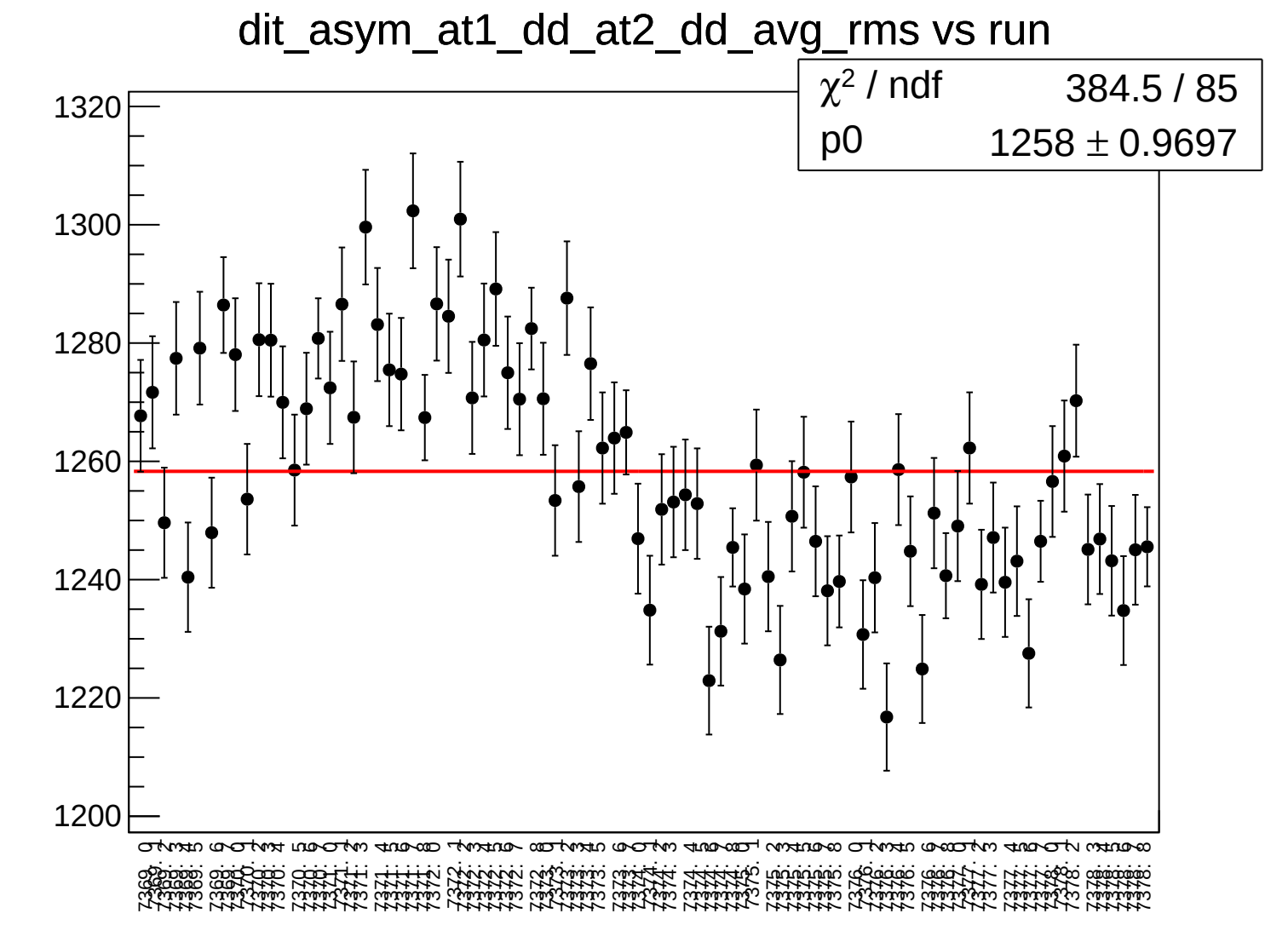

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.15 / 85
p0 −463.3 ± 518.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −0.5931
Std Dev 0
2
1
0
−1
−2

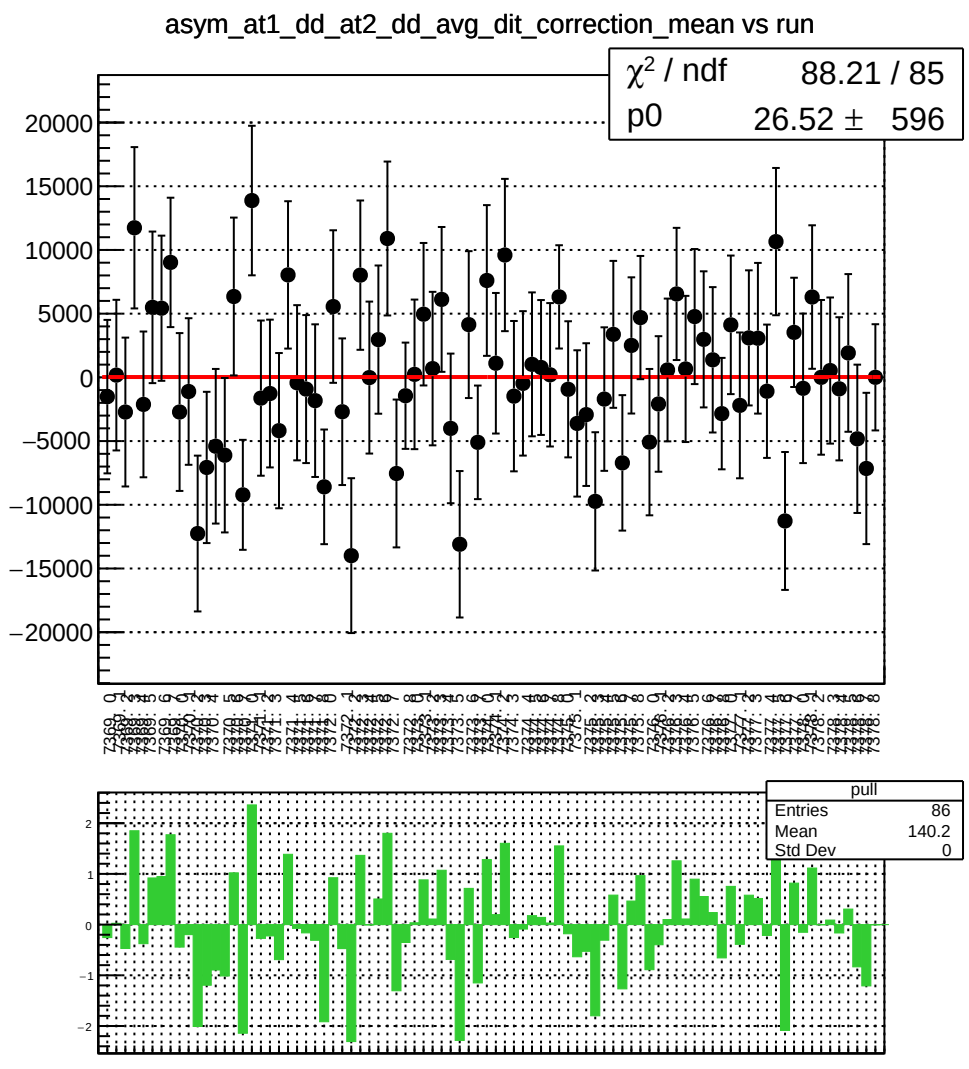

pull1D
Entries 86
Mean 0.008455
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

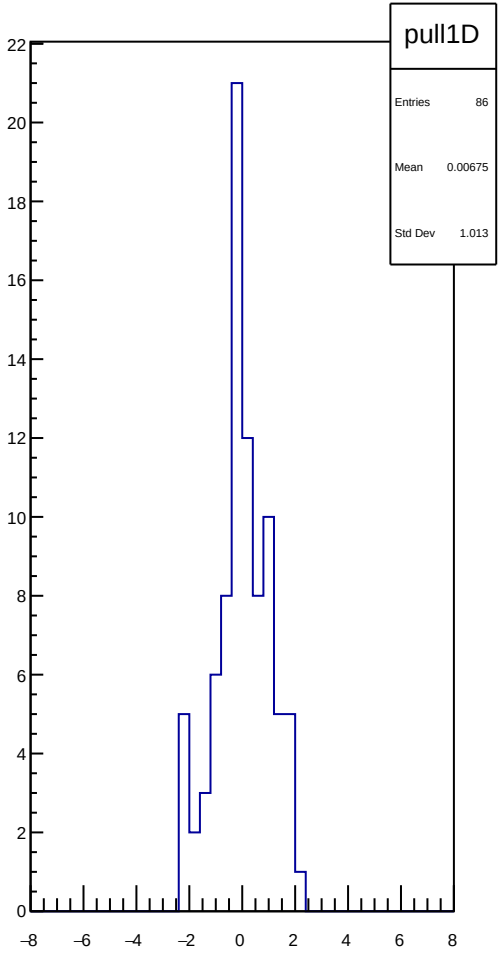

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4474 / 85
p0 475.6 ± 0.3669
560
540
520
500
480
460
440
420

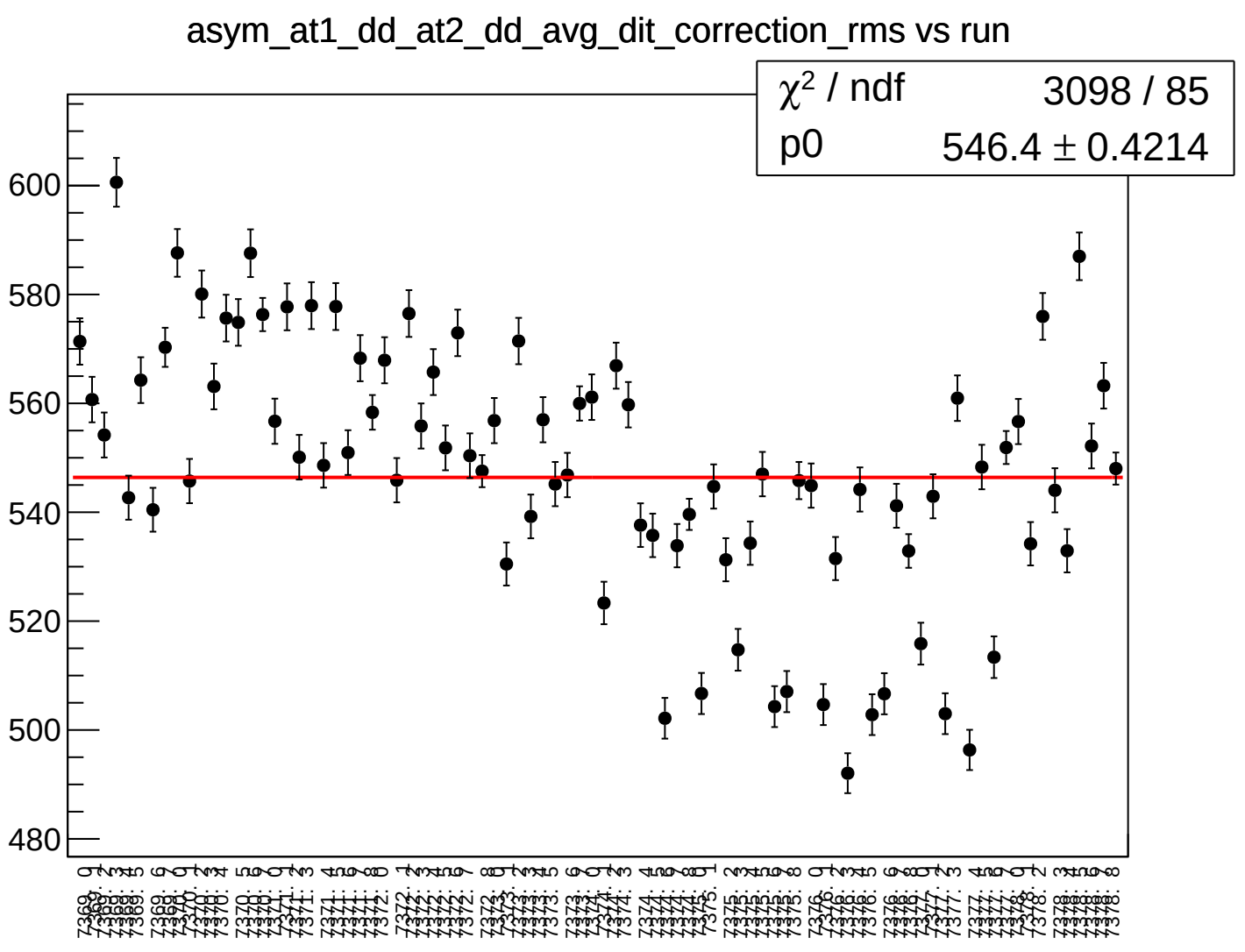

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.48 / 85
p0 126.4 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 1565
Std Dev 0

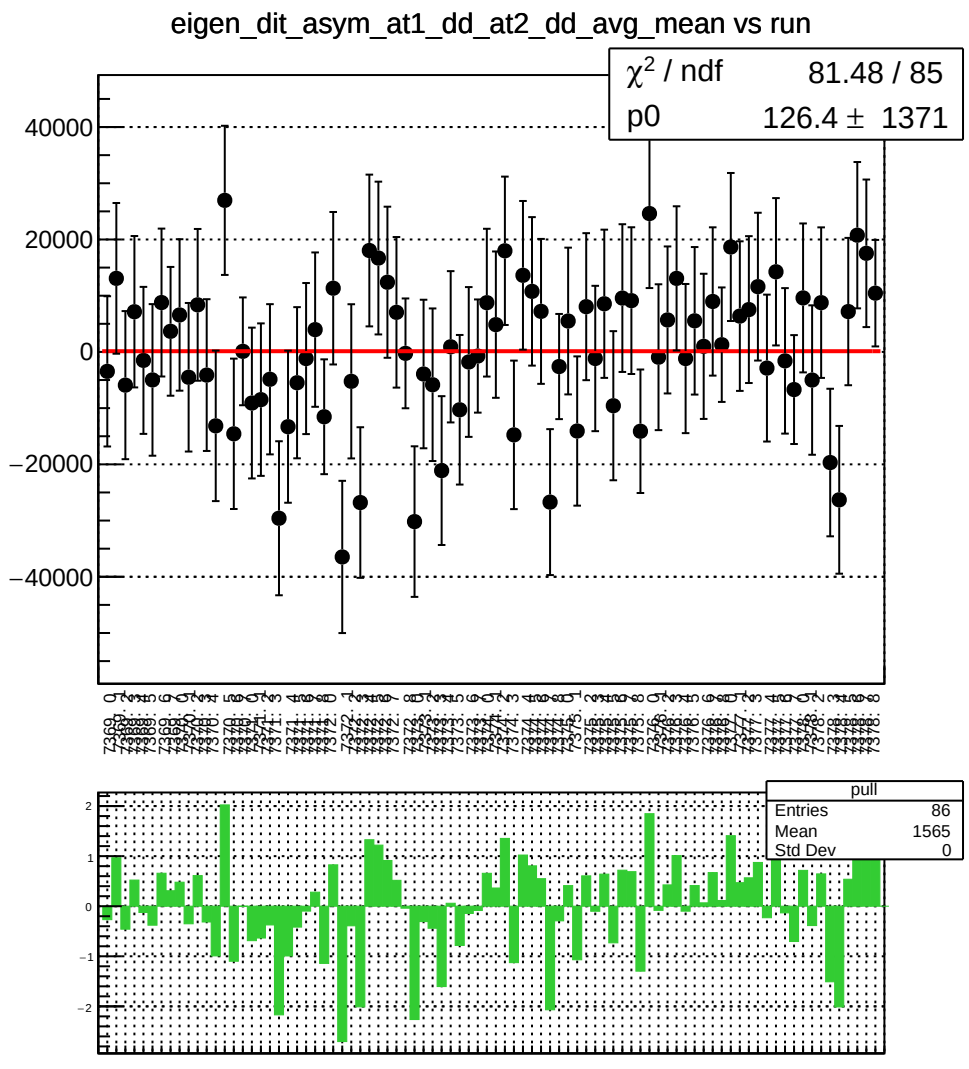

pull1D
Entries 86
Mean 0.003004
Std Dev 0.9733

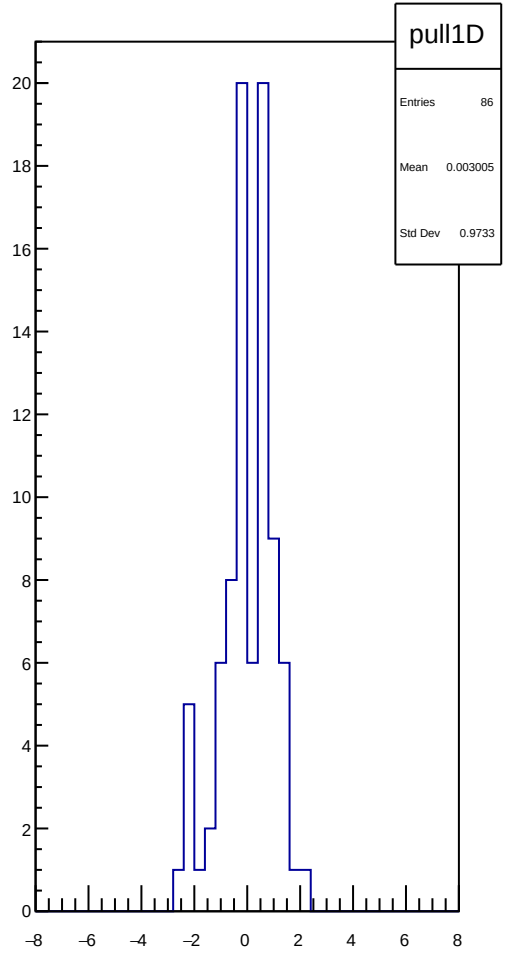

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 384.5 / 85
p0 1258 ± 0.9697
1320
1300
1280
1260
1240
1220
1200

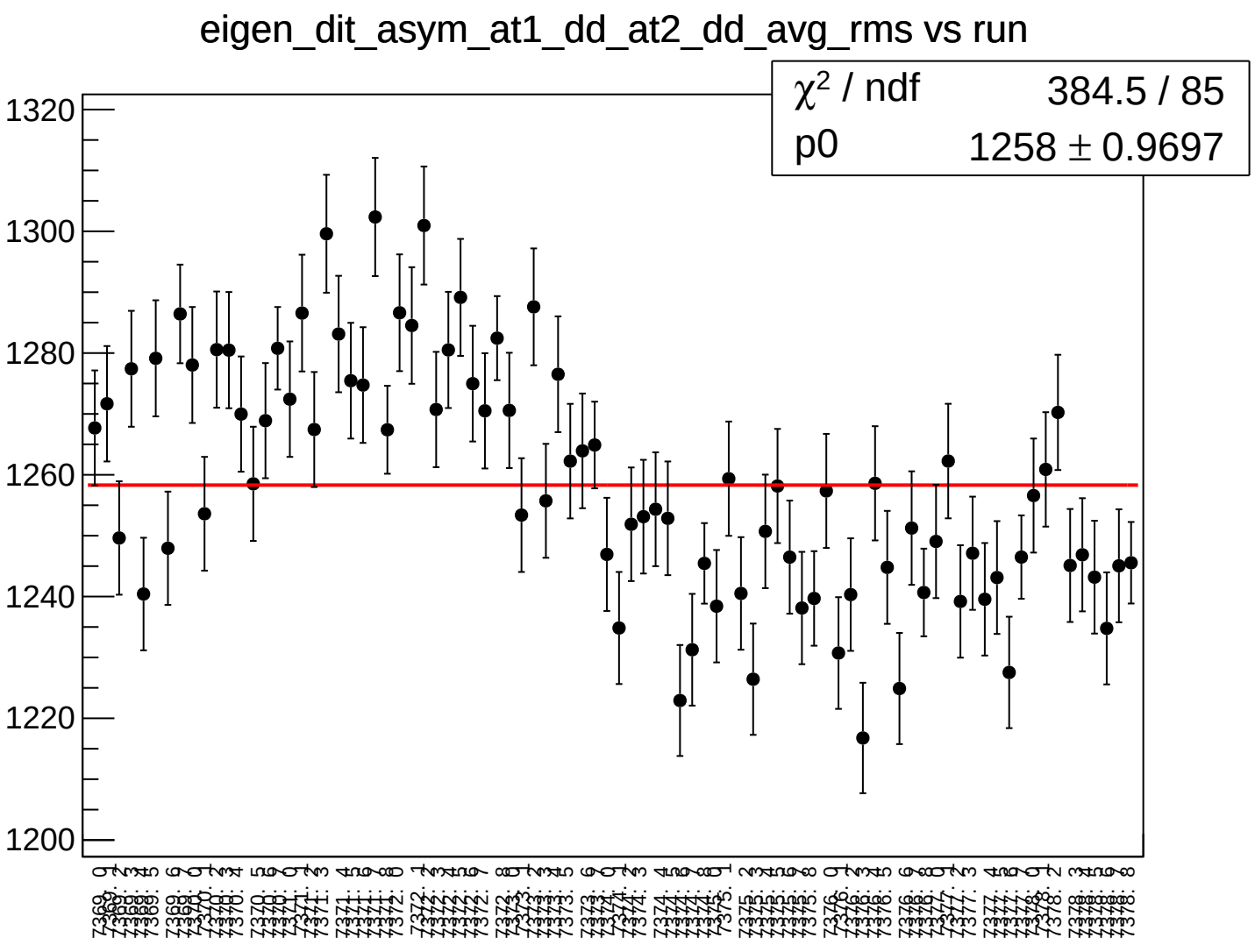

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 88.21 / 85
p0 26.52 ± 596
pull
Entries 86
Mean 140.2
Std Dev 0

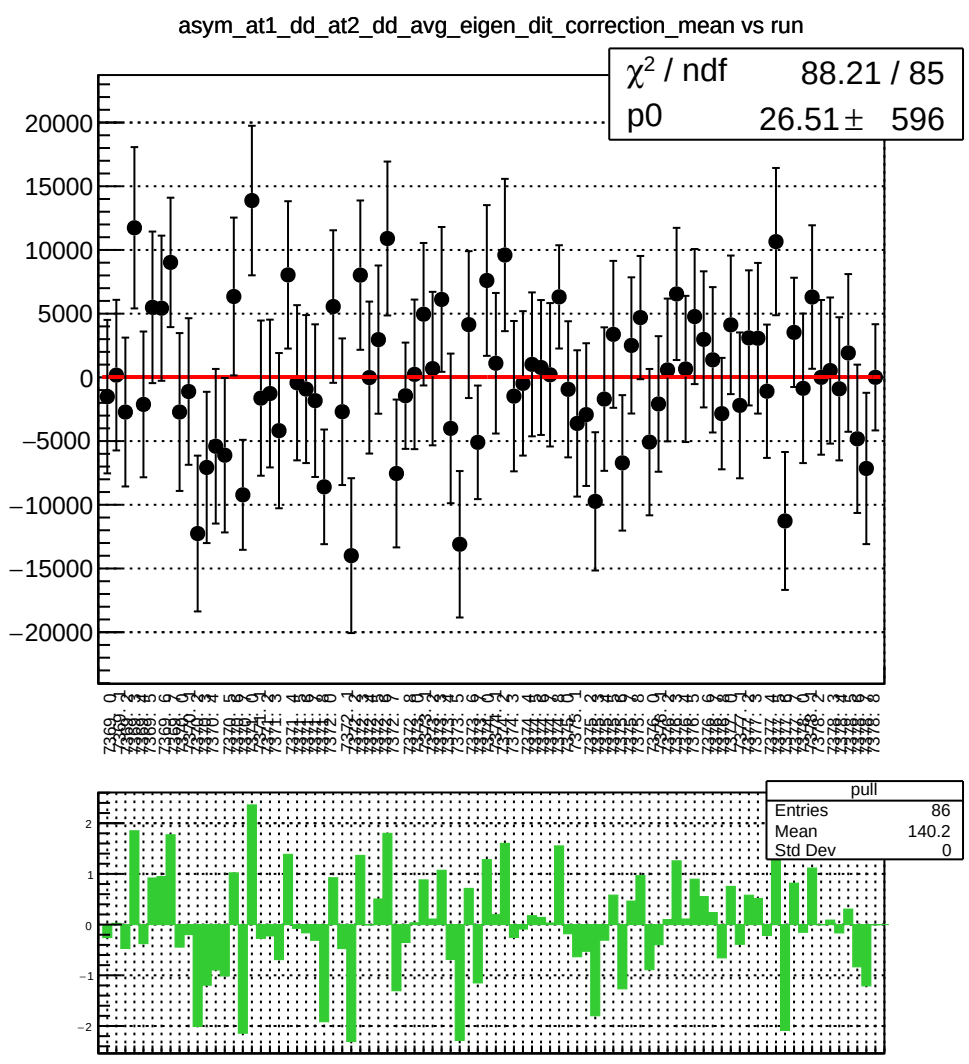

pull1D
Entries 86
Mean 0.00675
Std Dev 1.013

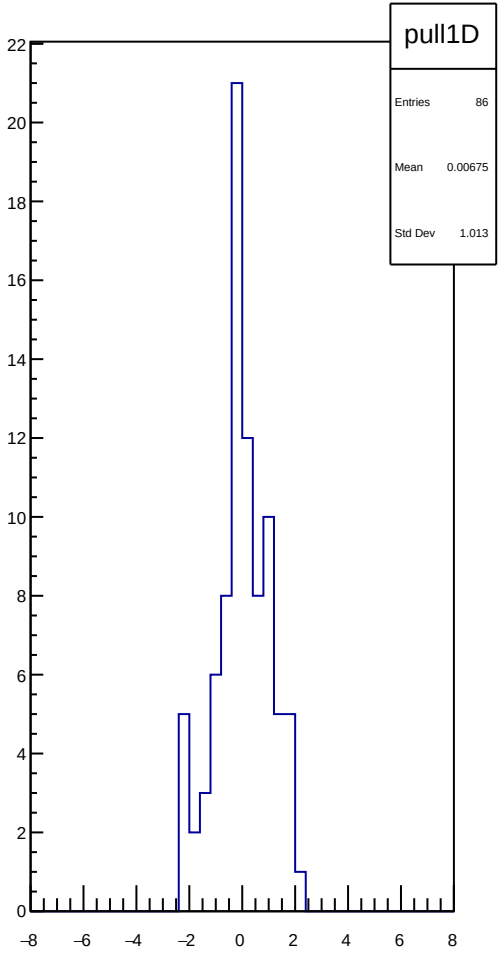

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 3098 / 85
p0 546.4 ± 0.4214
600
580
560
540
520
500
480

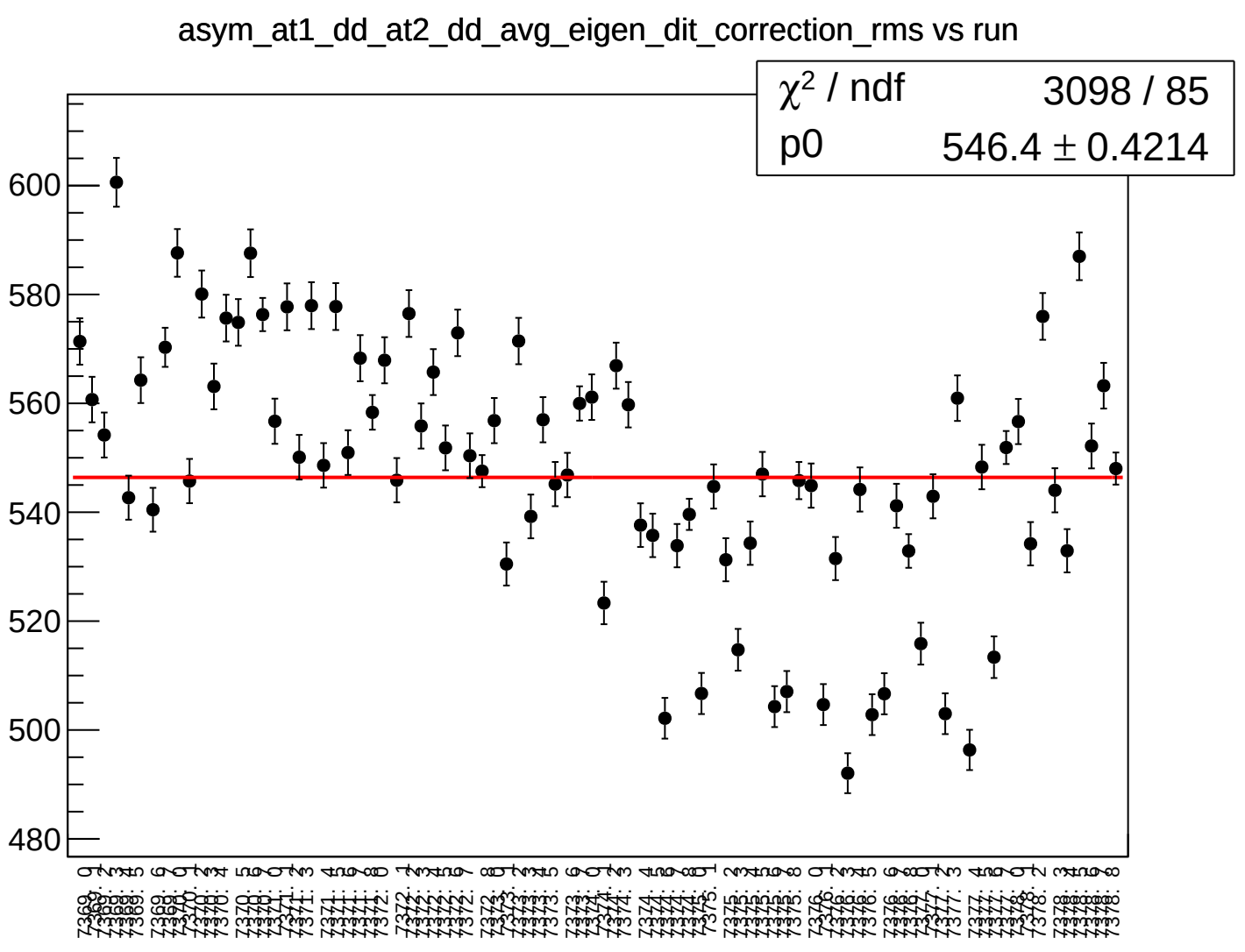

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.48 / 85
p0 126.4 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 1565
Std Dev 0
2
1
0
−1
−2

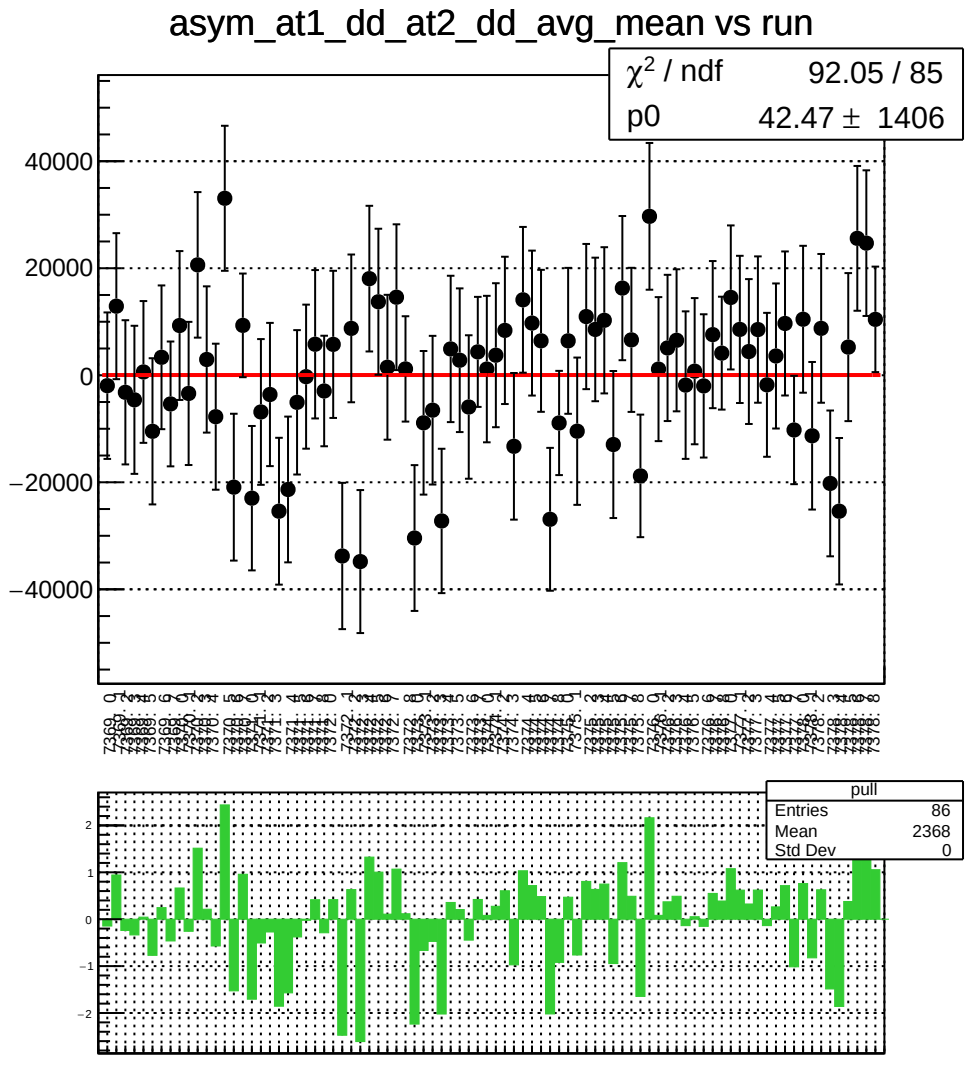

pull1D
Entries 86
Mean 0.003005
Std Dev 0.9733
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

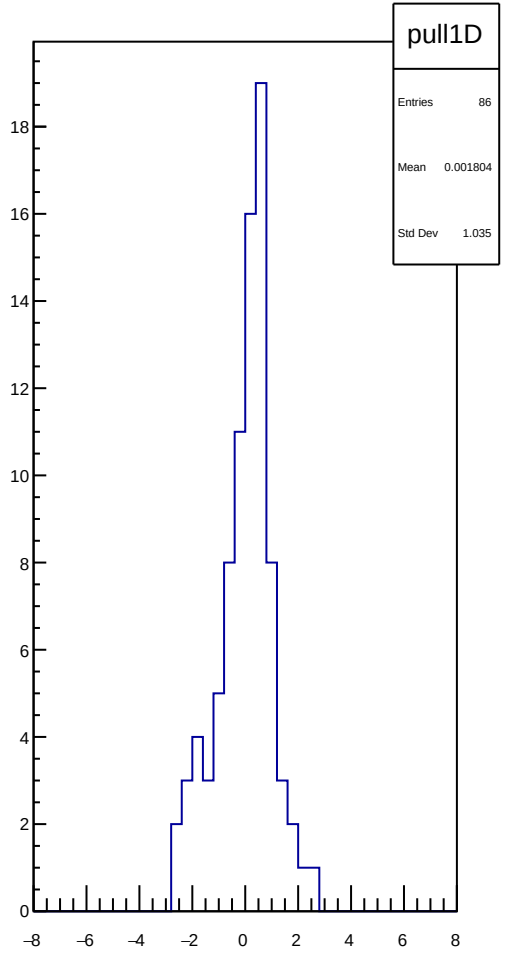

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 384.5 / 85
p0 1258 ± 0.9697
1320
1300
1280
1260
1240
1220
1200

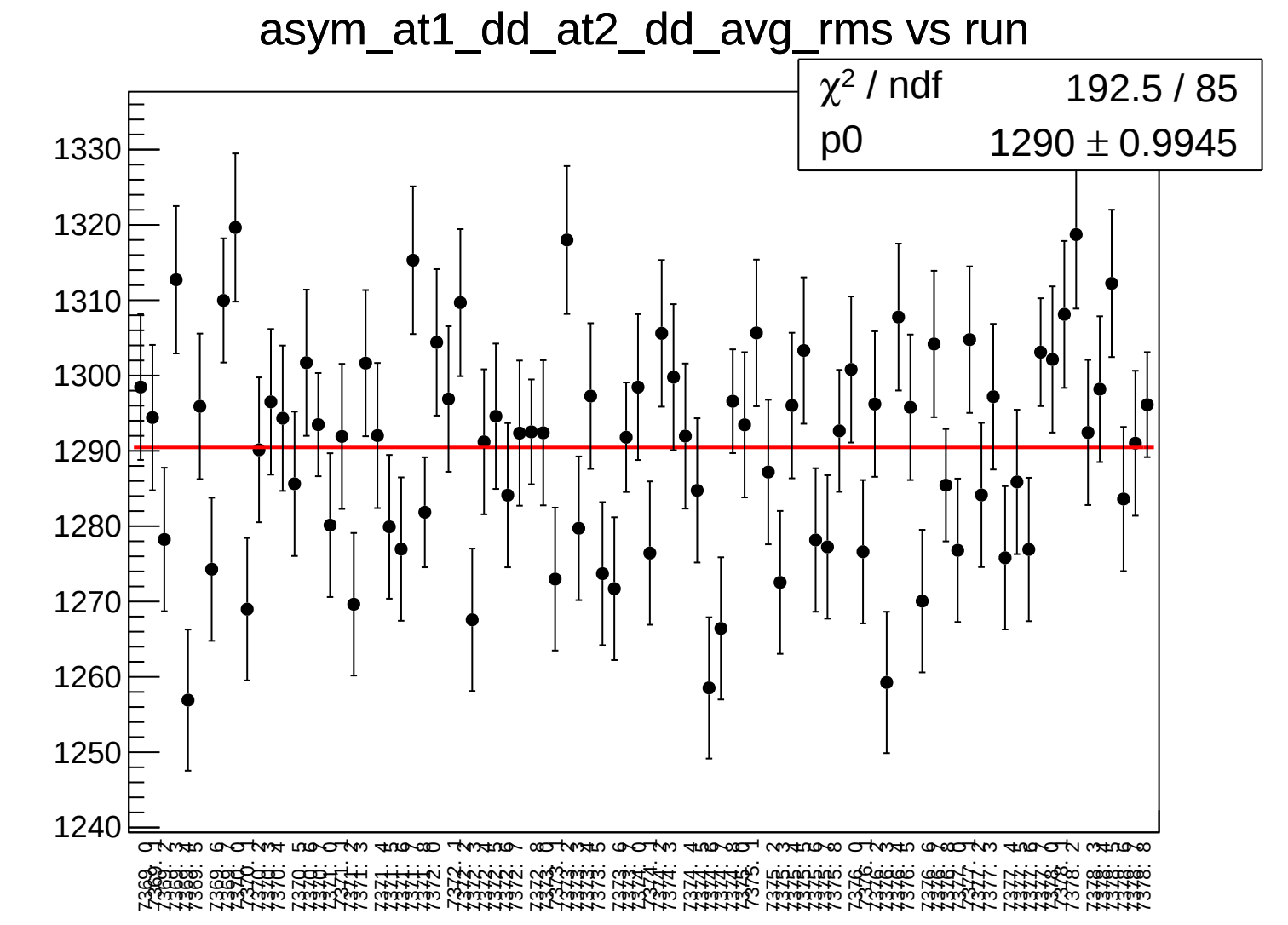

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.21 / 85
p0 26.51 ± 596
pull
Entries 86
Mean 140.2
Std Dev 0

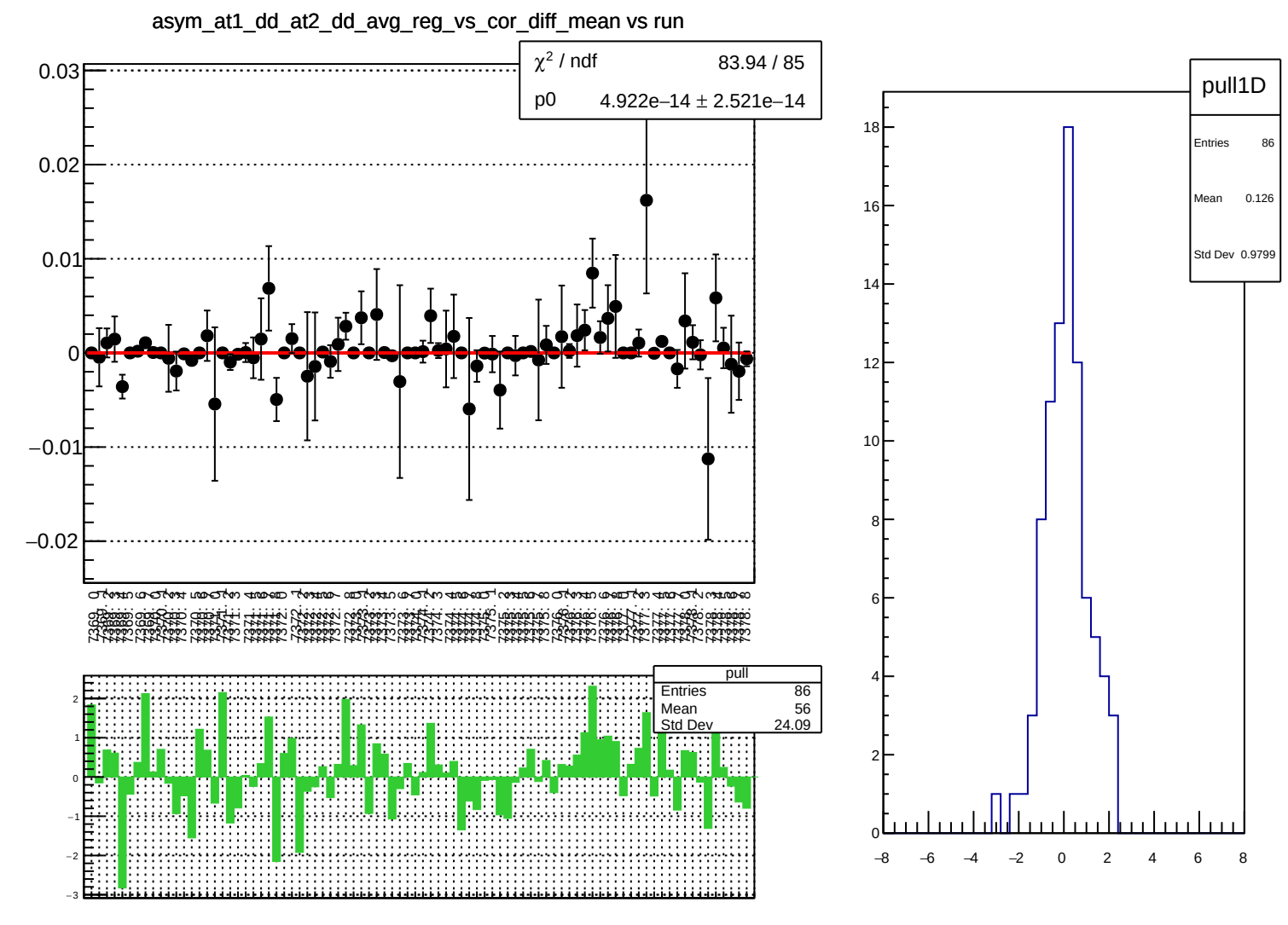

pull1D
Entries 86
Mean 0.00675
Std Dev 1.013

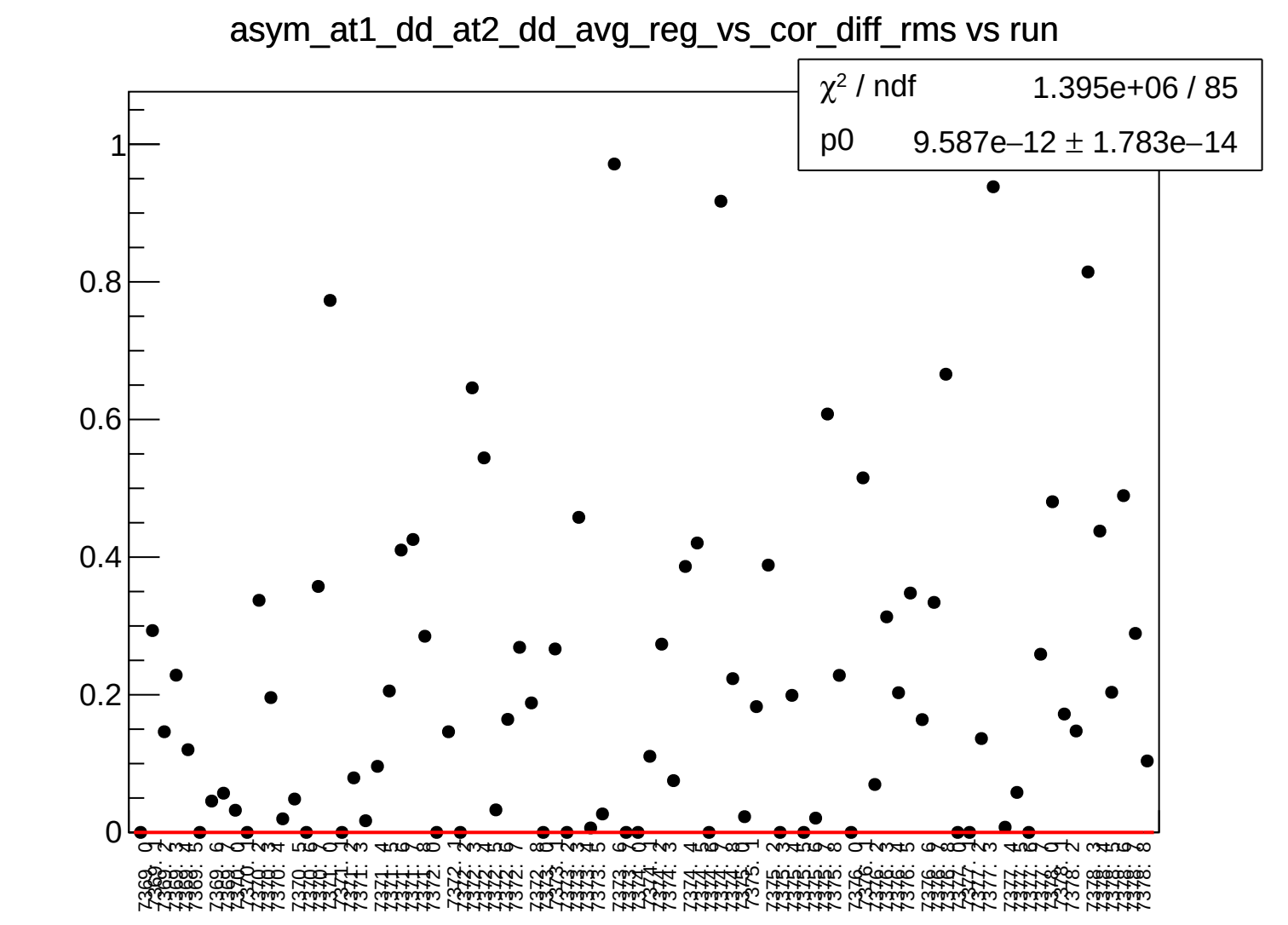

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3098 / 85
p0 546.4 ± 0.4214
600
580
560
540
520
500
480

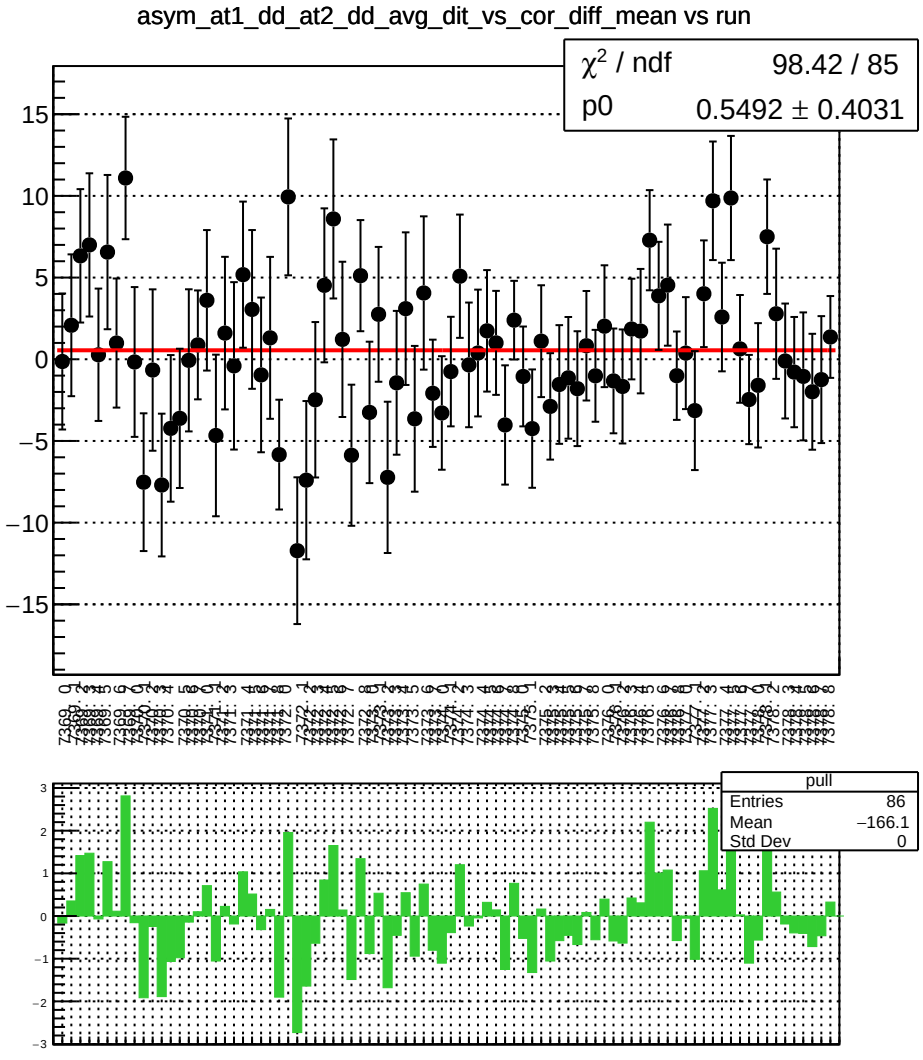

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 92.05 / 85
p0 42.47 ± 1406
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 2368
Std Dev 0
2
1
0
−1
−2

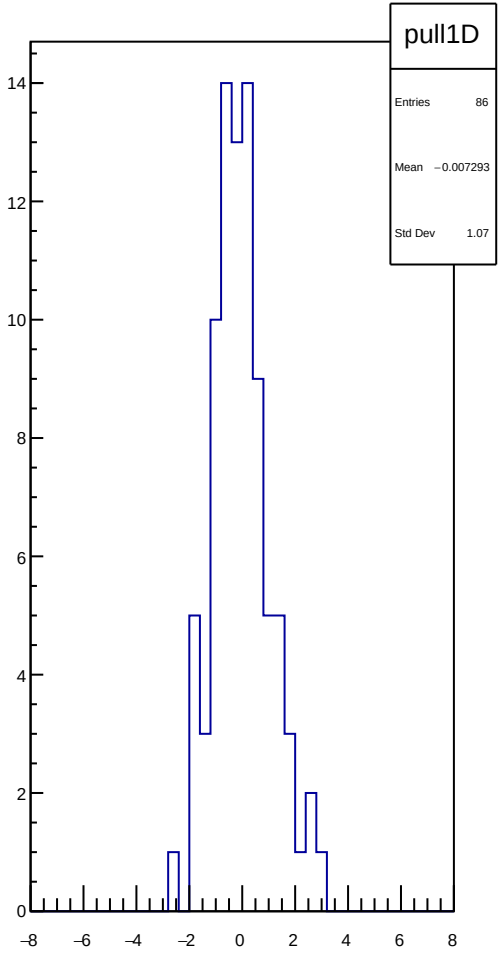

pull1D
Entries 86
Mean 0.001804
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

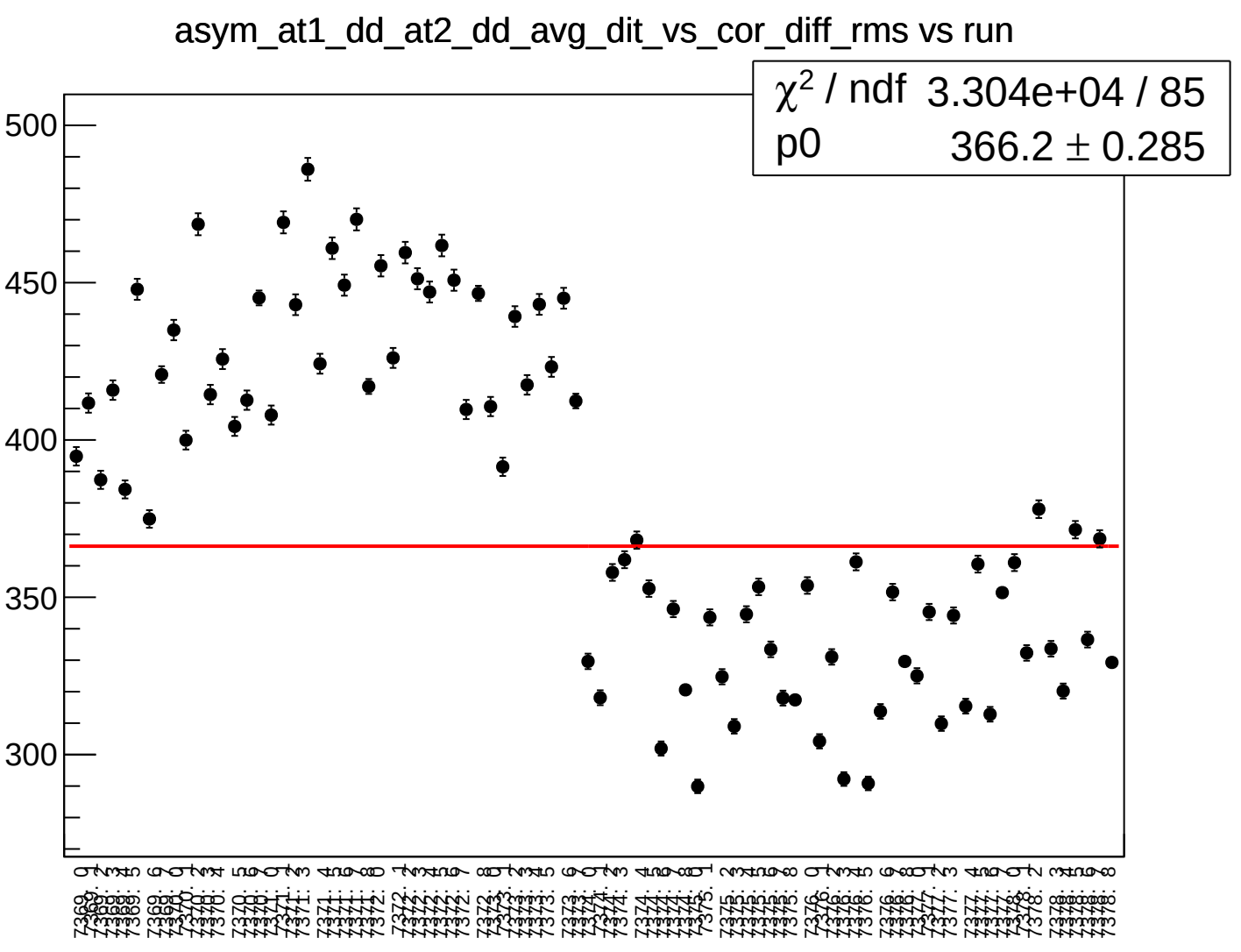

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 192.5 / 85
p0 1290 ± 0.9945
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

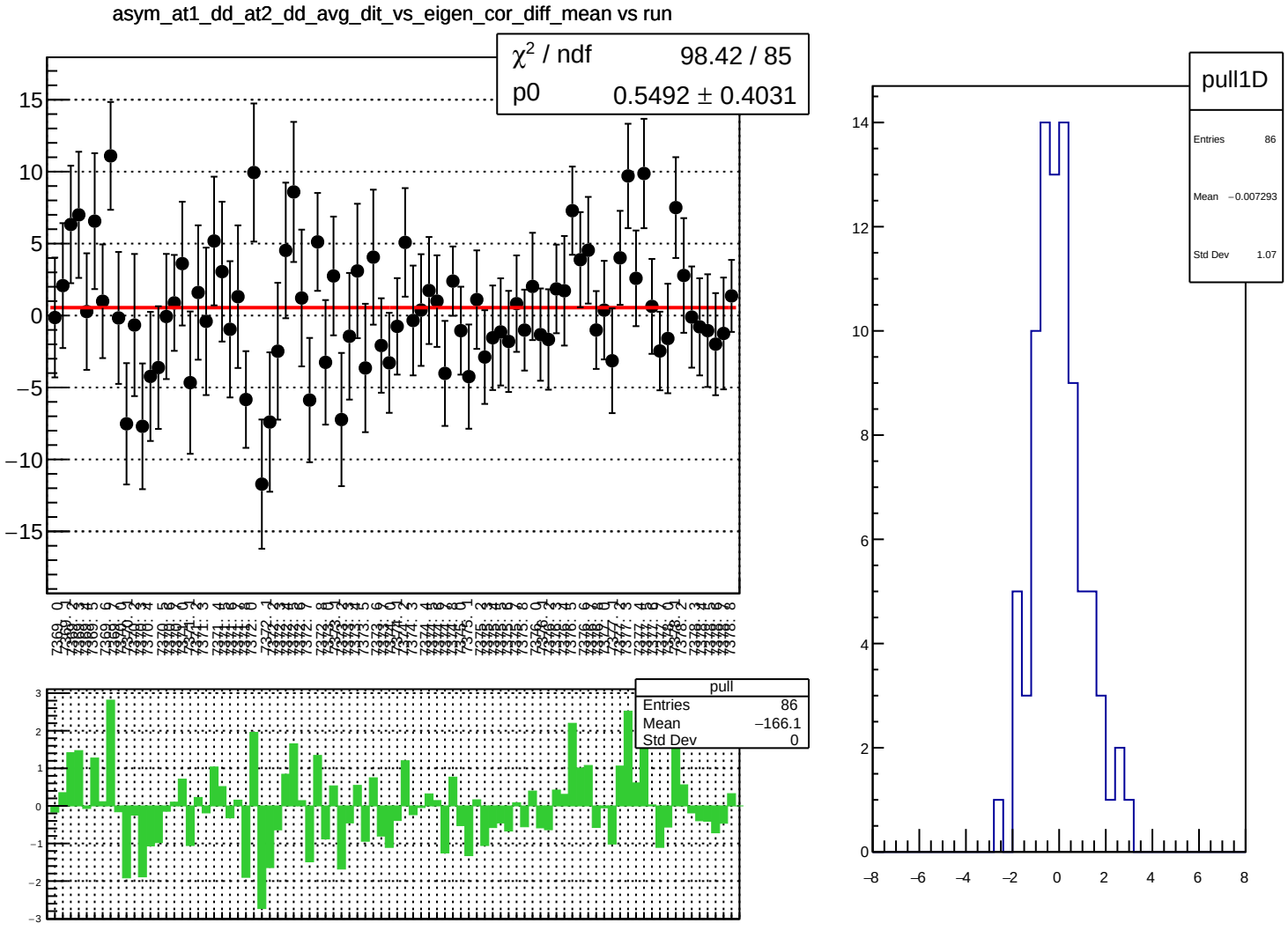

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.94 / 85
p0 4.922e−14 ± 2.521e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 56
Std Dev 24.09
pull1D
Entries 86
Mean 0.126
Std Dev 0.9799

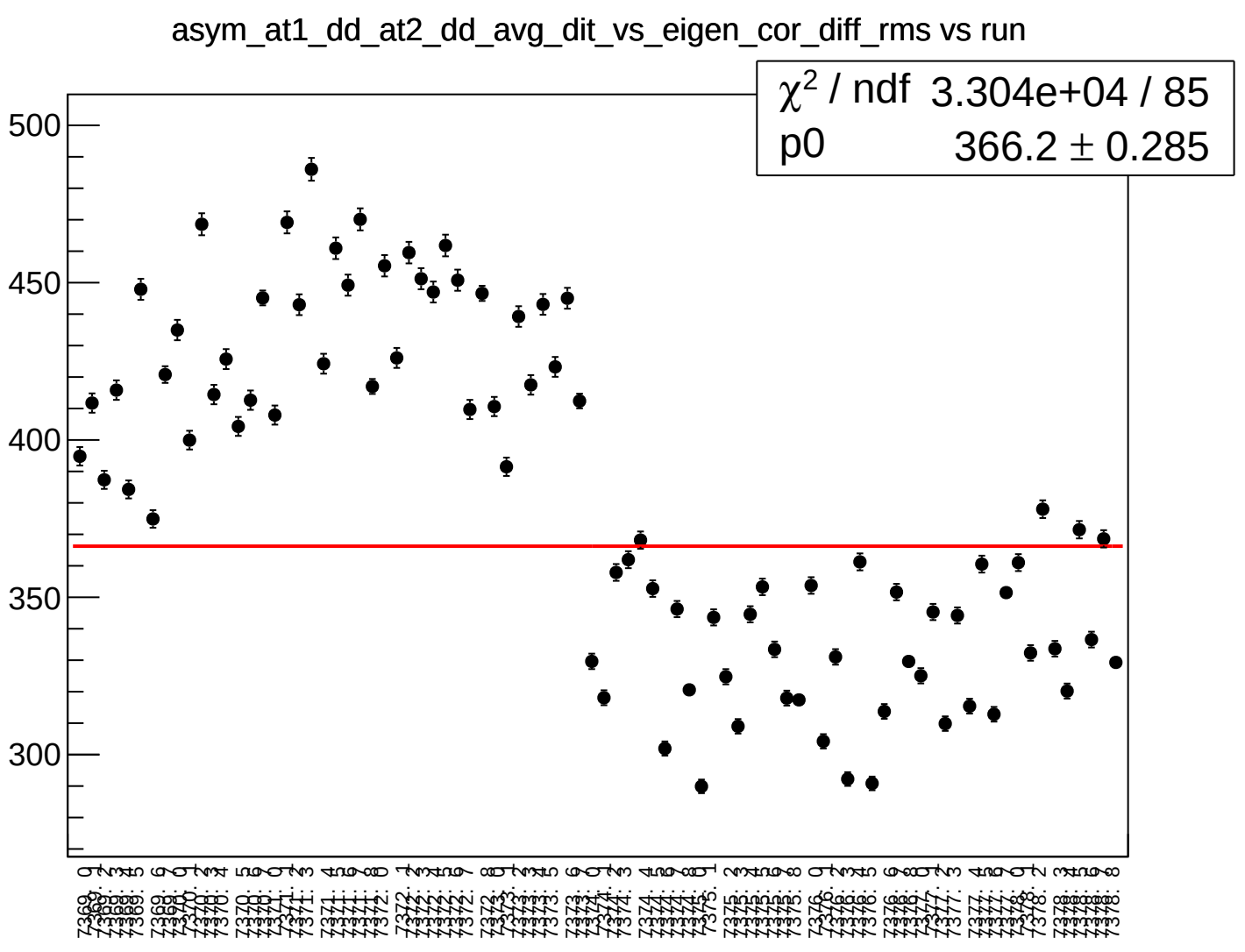

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.395e+06 / 85
p0 9.587e−12 ± 1.783e−14
1
0.8
0.6
0.4
0.2
0

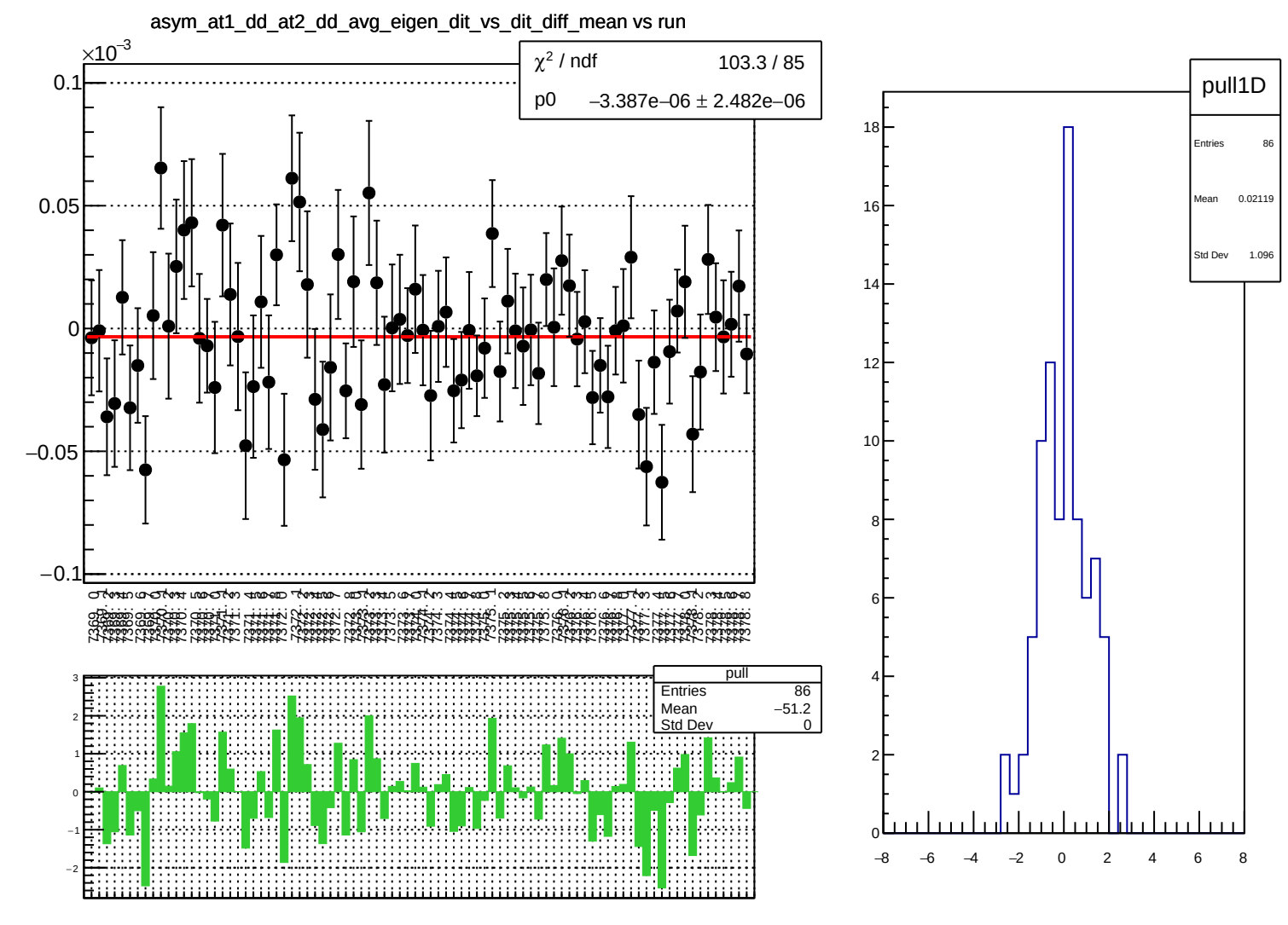

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.42 / 85
p0 0.5492 ± 0.4031
pull
Entries 86
Mean −166.1
Std Dev 0

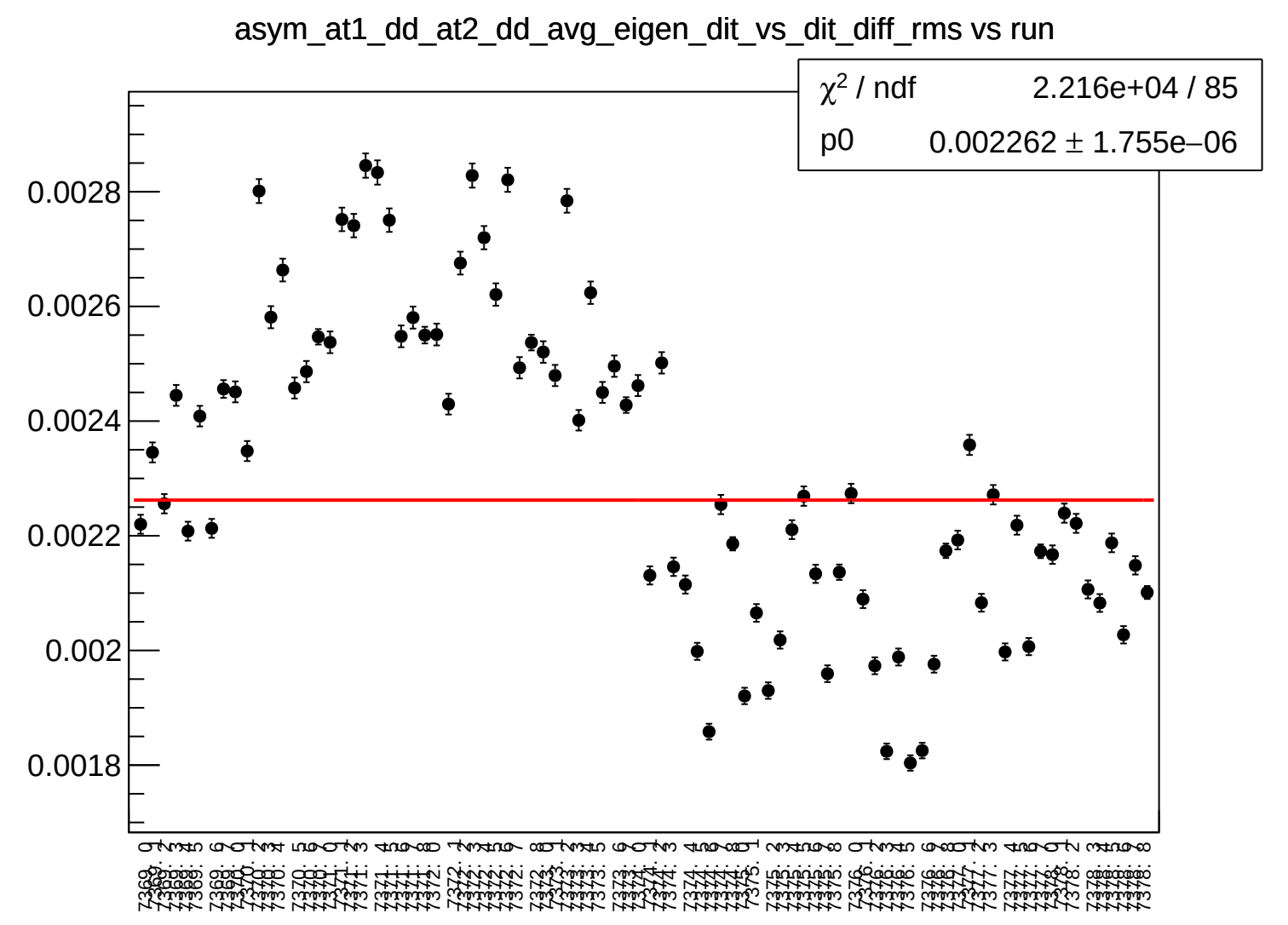

pull1D
Entries 86
Mean −0.007293
Std Dev 1.07

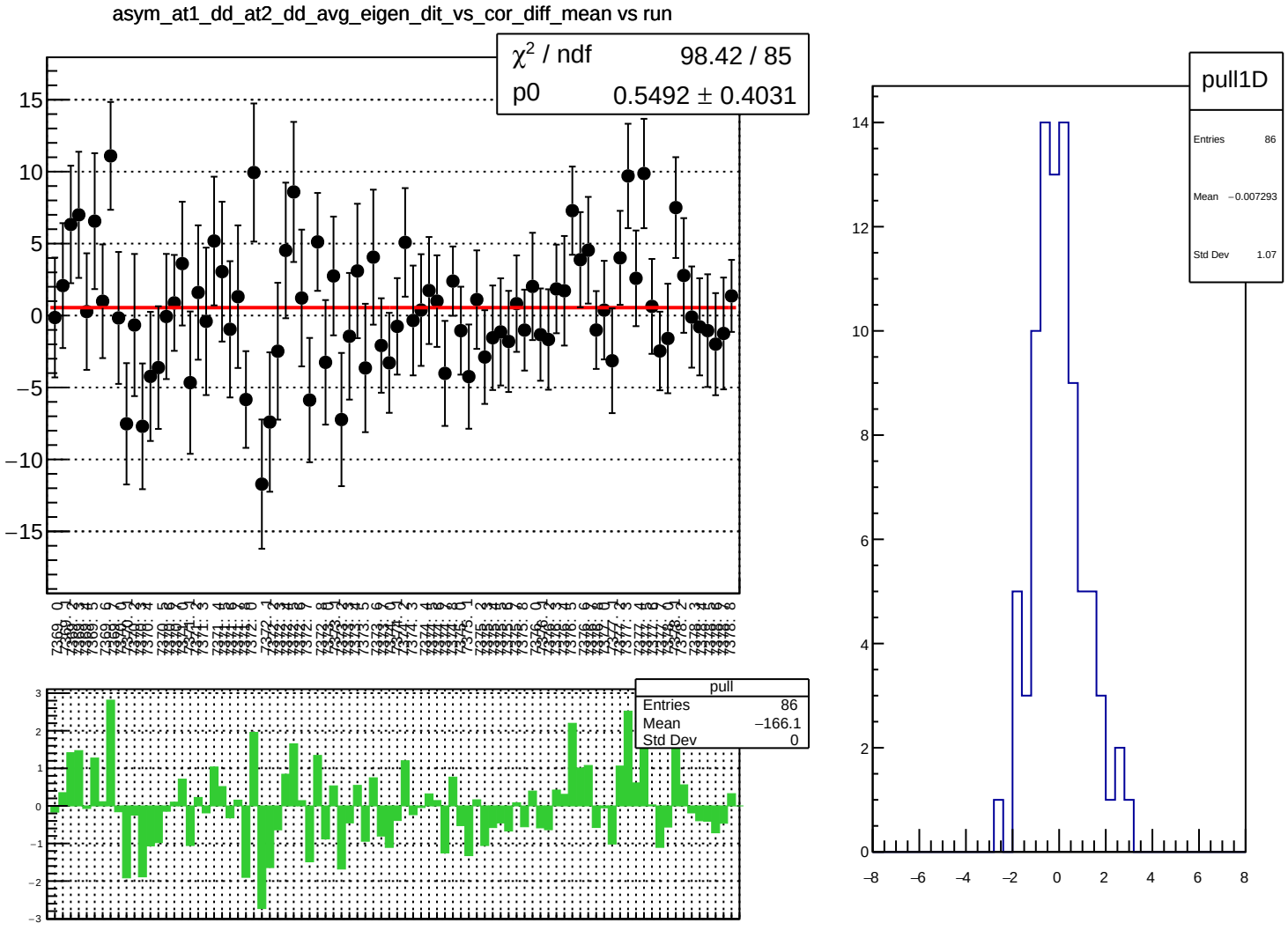

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.304e+04 / 85
p0 366.2 ± 0.285
500
450
400
350
300

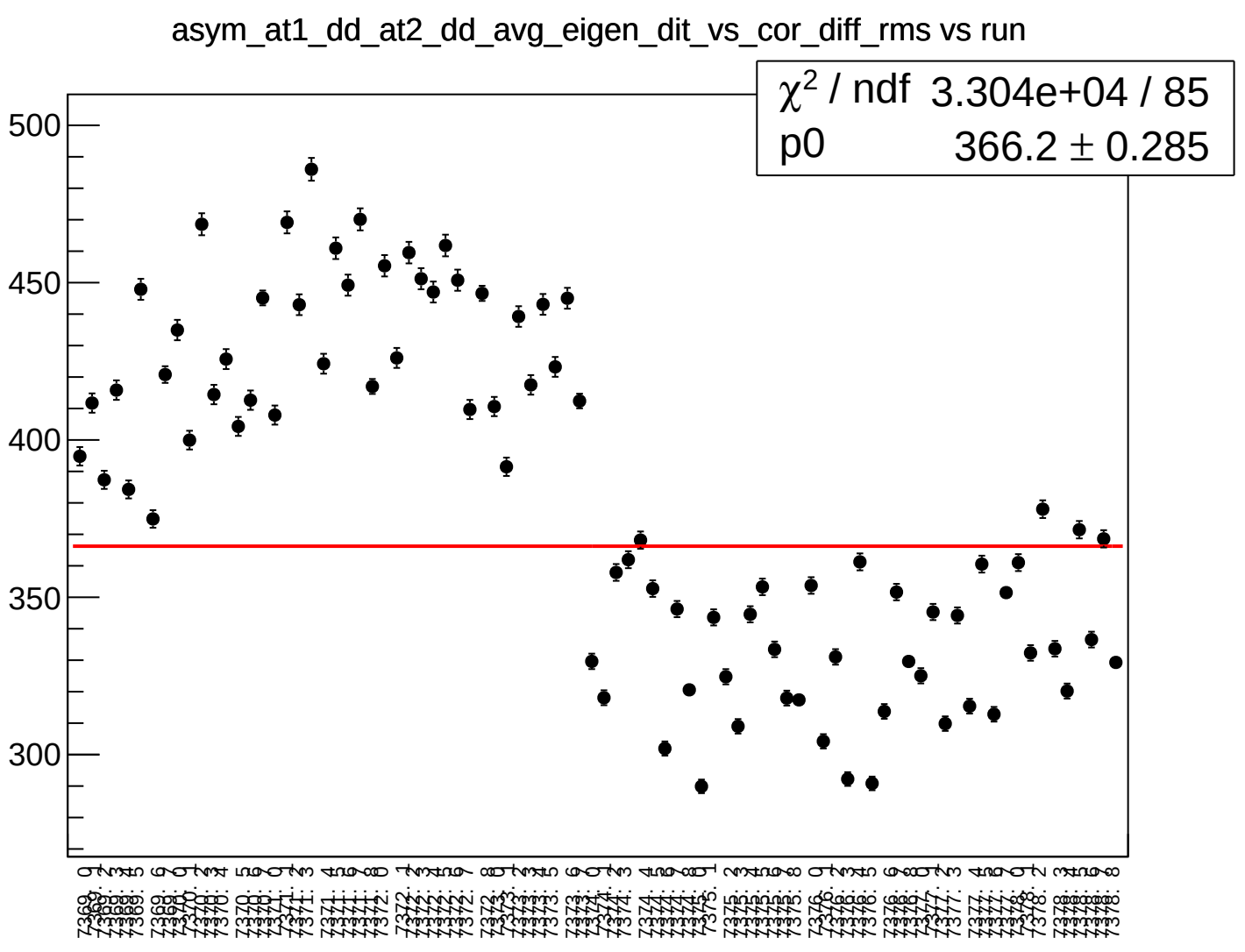

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.42 / 85
p0 0.5492 ± 0.4031
pull
Entries 86
Mean −166.1
Std Dev 0
pull1D
Entries 86
Mean −0.007293
Std Dev 1.07

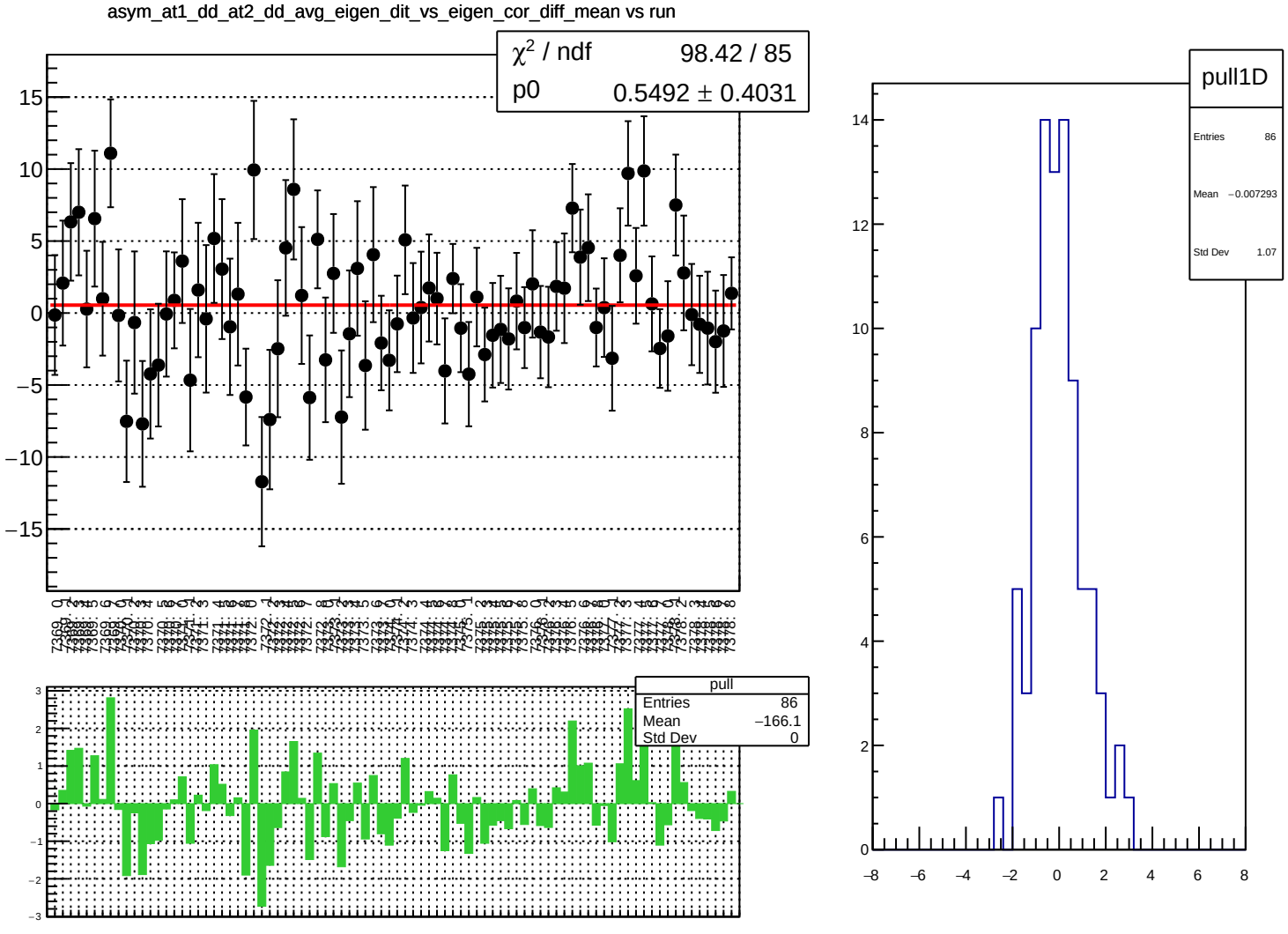

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.304e+04 / 85
p0 366.2 ± 0.285
500
450
400
350
300

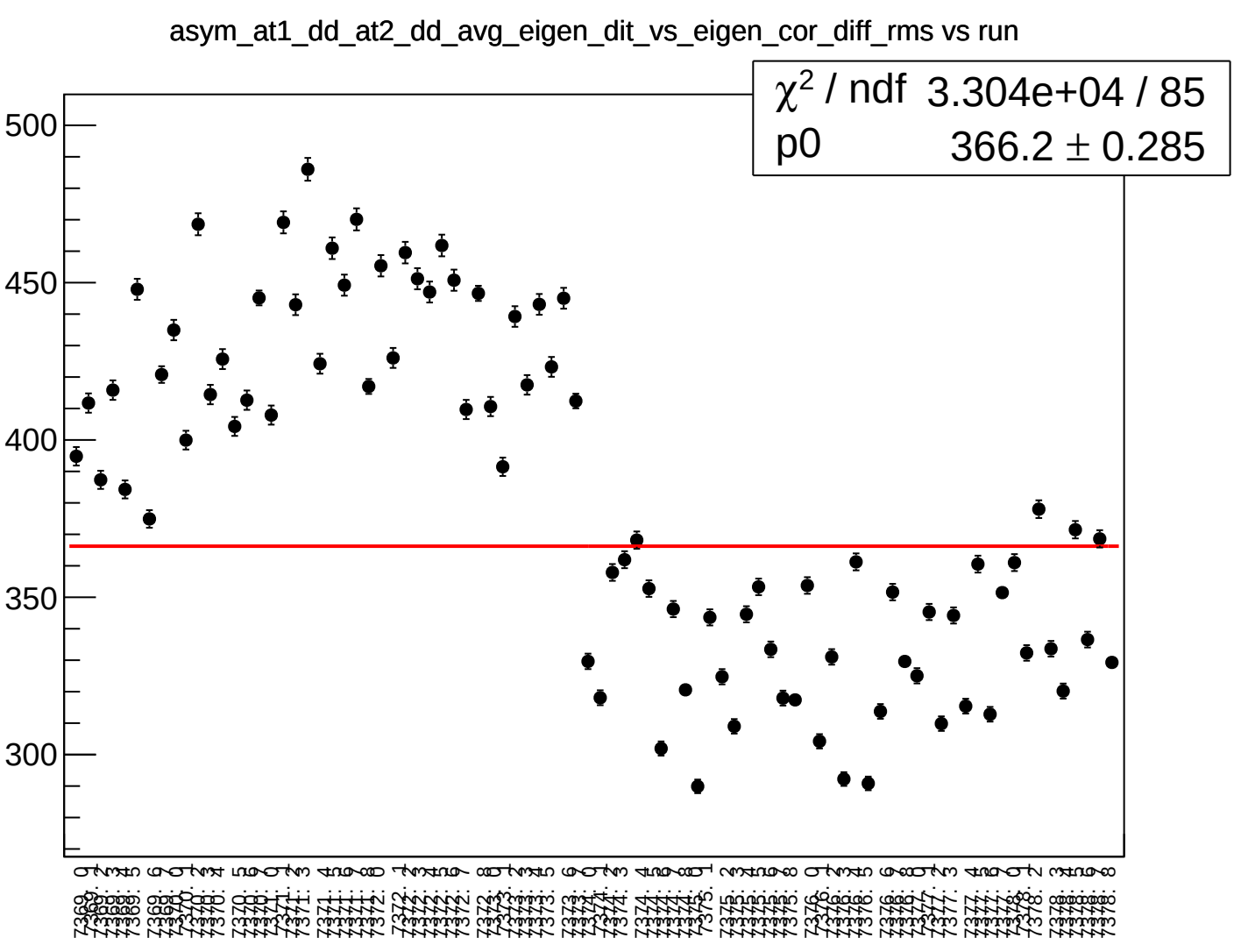

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 85
p0 −3.387e−06 ± 2.482e−06
pull
Entries 86
Mean −51.2
Std Dev 0
pull1D
Entries 86
Mean 0.02119
Std Dev 1.096

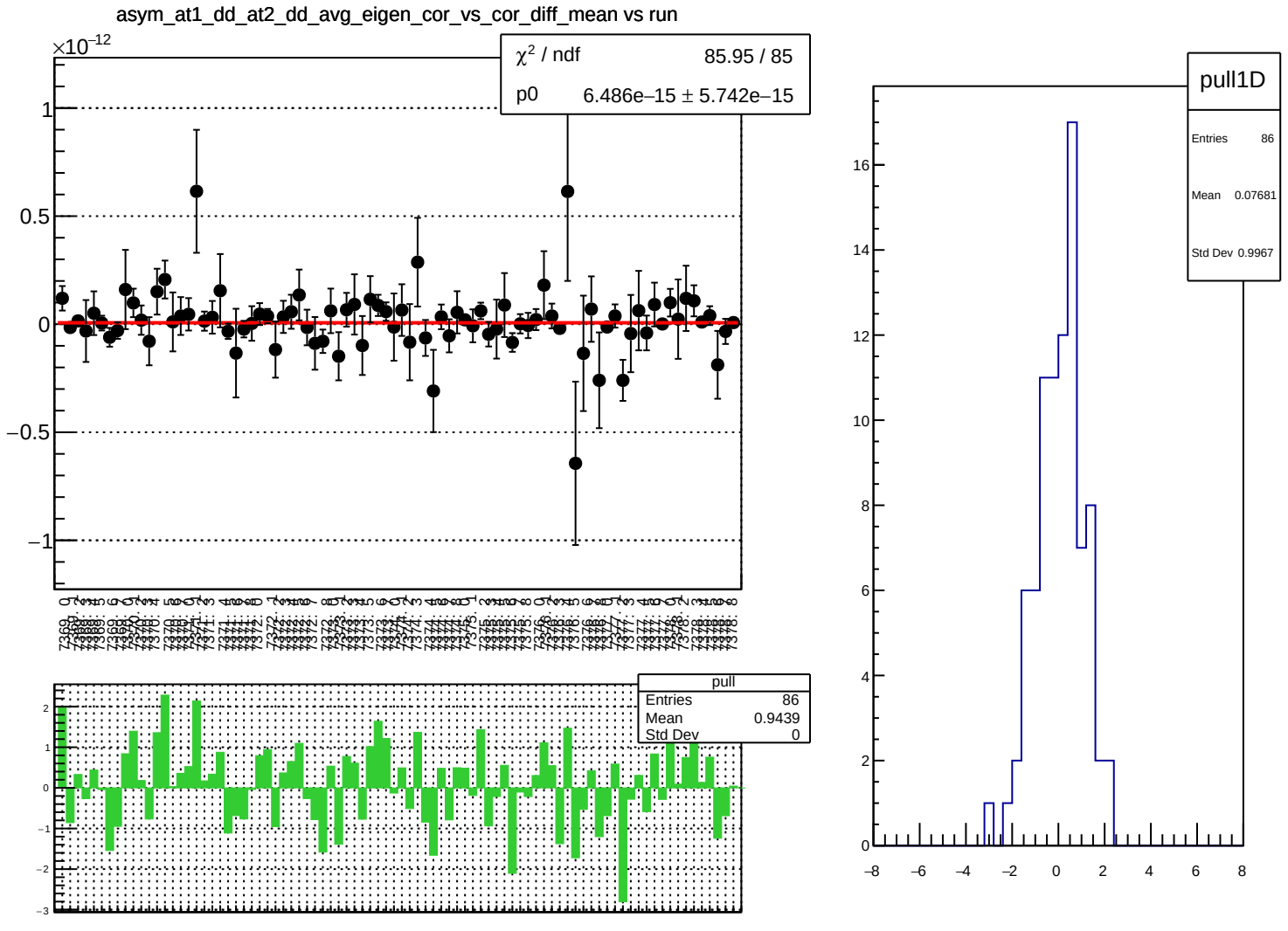

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.216e+04 / 85
p0 0.002262 ± 1.755e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

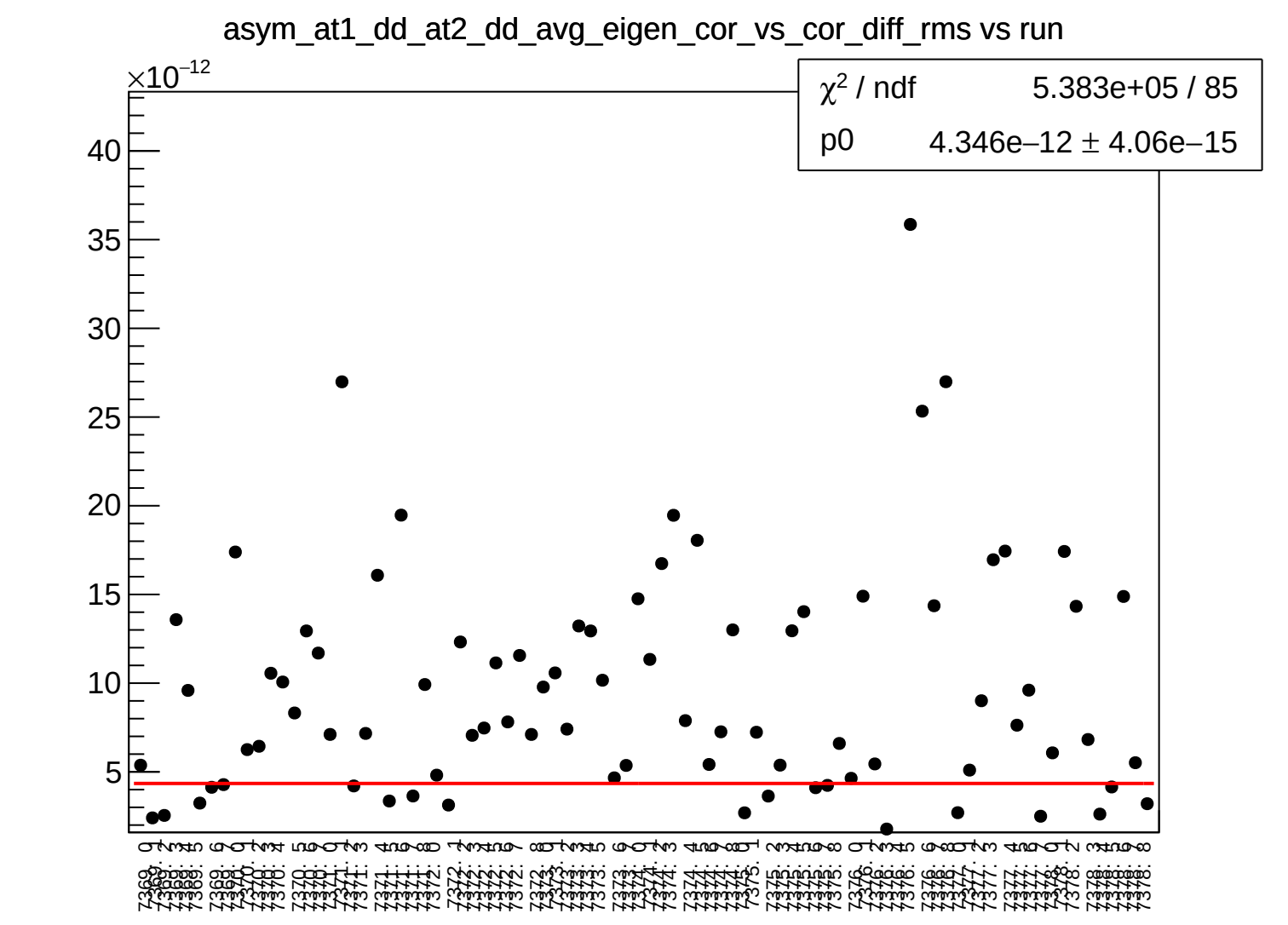

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.42 / 85
p0 0.5492 ± 0.4031
pull
Entries 86
Mean −166.1
Std Dev 0
pull1D
Entries 86
Mean −0.007293
Std Dev 1.07

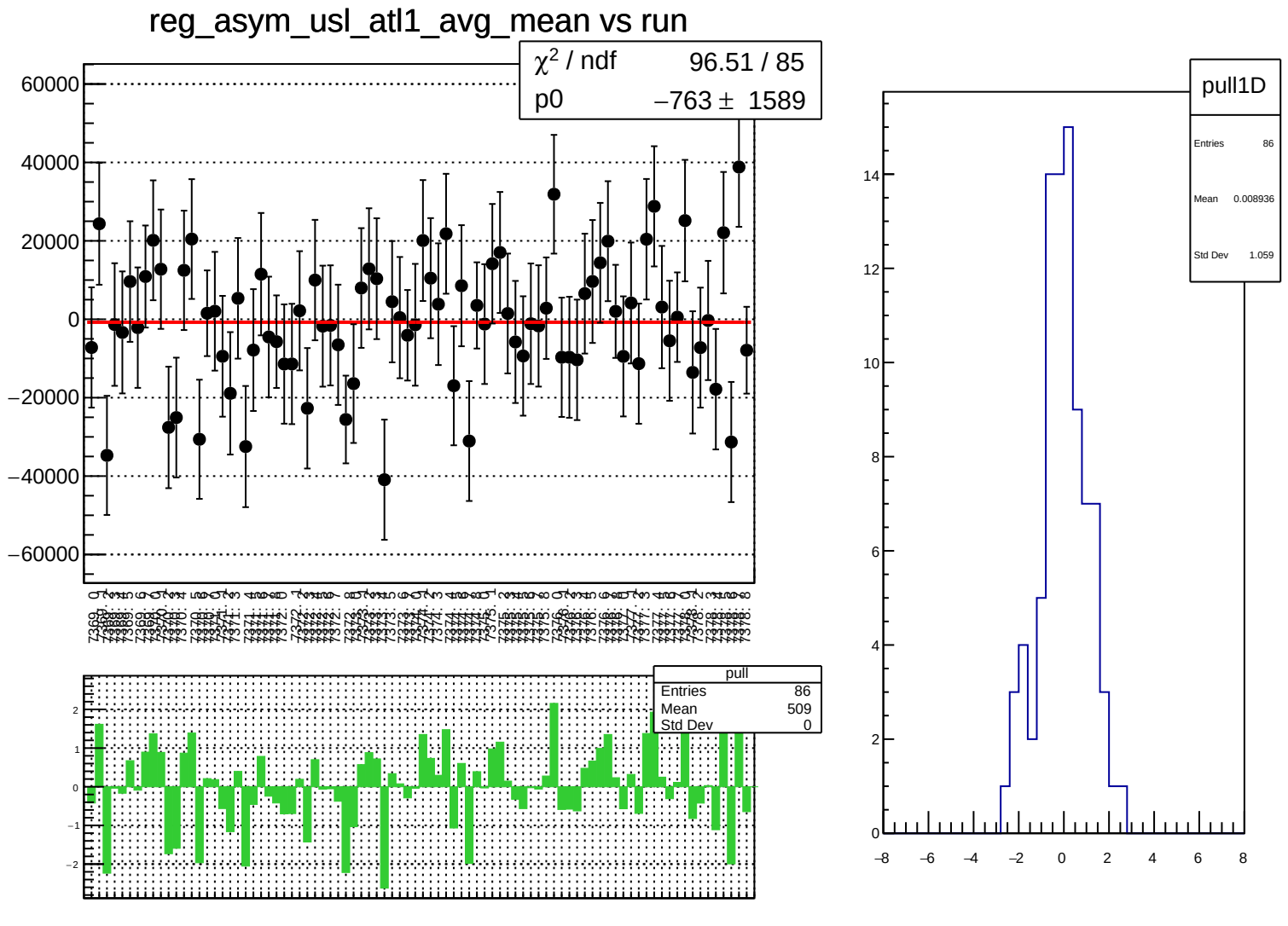

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.304e+04 / 85
p0 366.2 ± 0.285
500
450
400
350
300

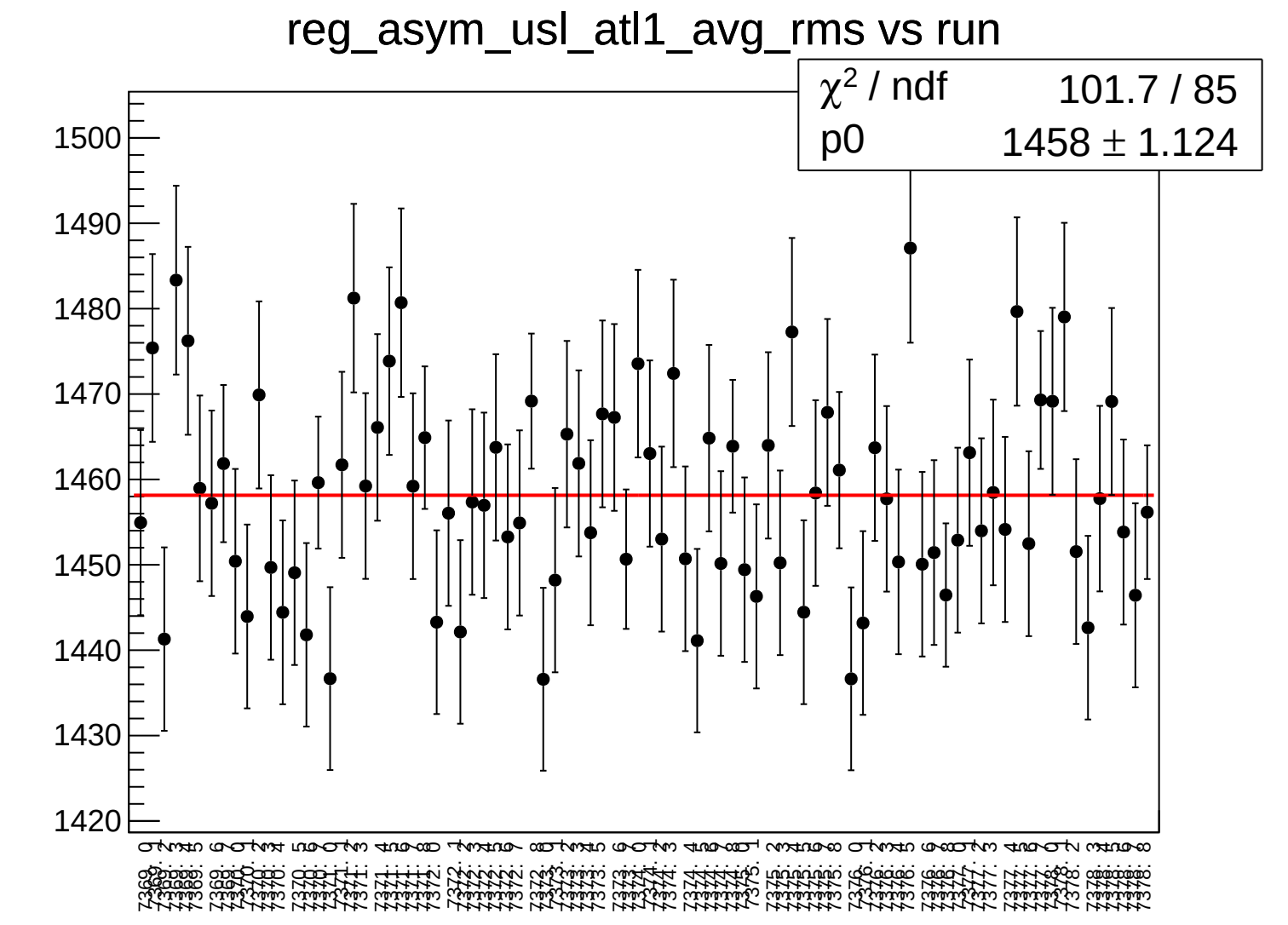

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.42 / 85
p0 0.5492 ± 0.4031
pull
Entries 86
Mean −166.1
Std Dev 0
pull1D
Entries 86
Mean −0.007293
Std Dev 1.07

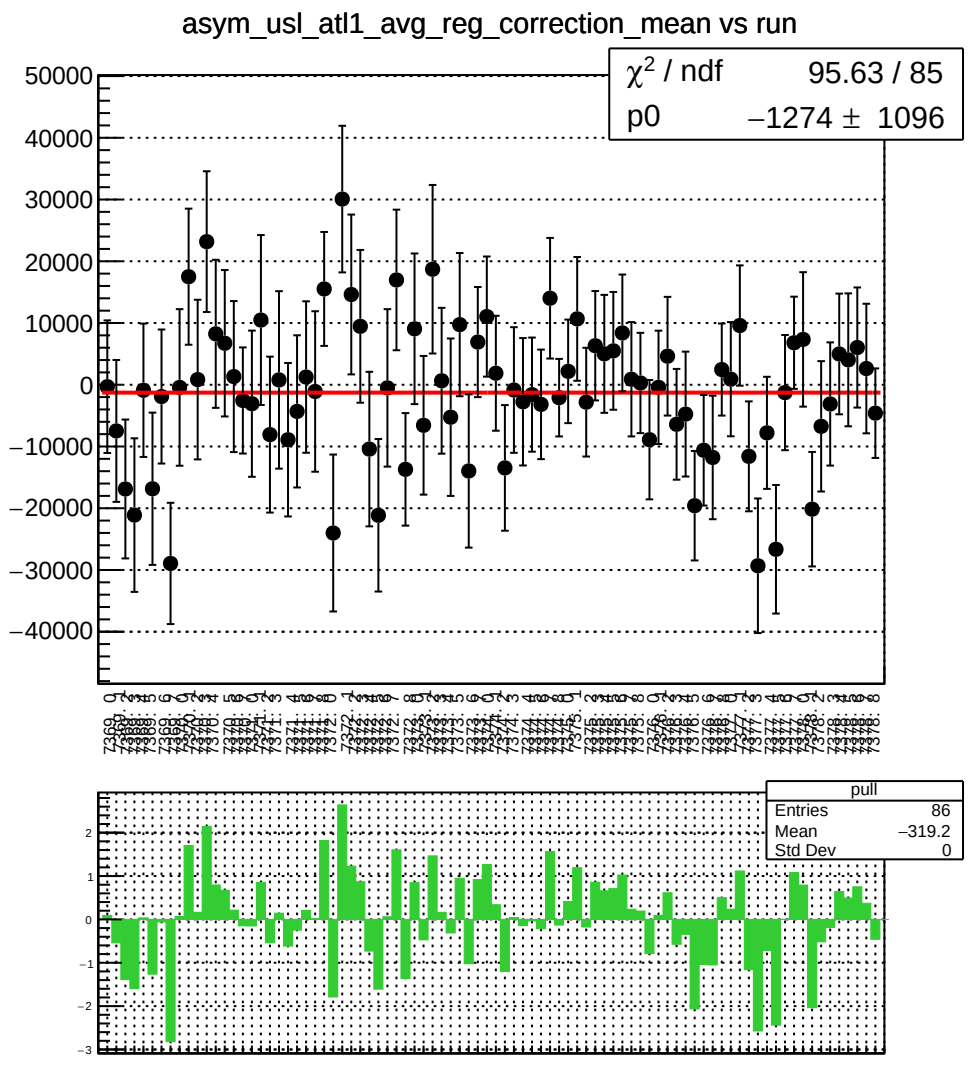

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.304e+04 / 85
p0 366.2 ± 0.285
500
450
400
350
300

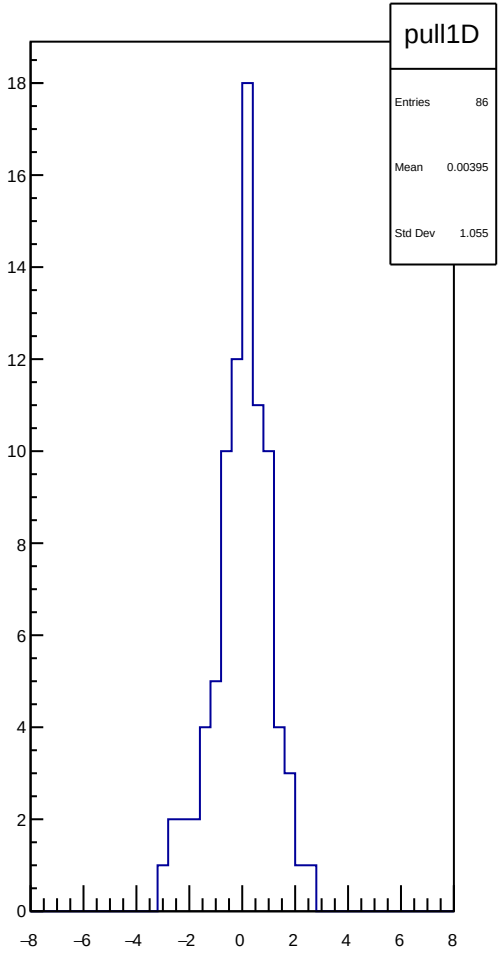

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 85.95 / 85
p0 6.486e−15 ± 5.742e−15
pull
Entries 86
Mean 0.9439
Std Dev 0
pull1D
Entries 86
Mean 0.07681
Std Dev 0.9967

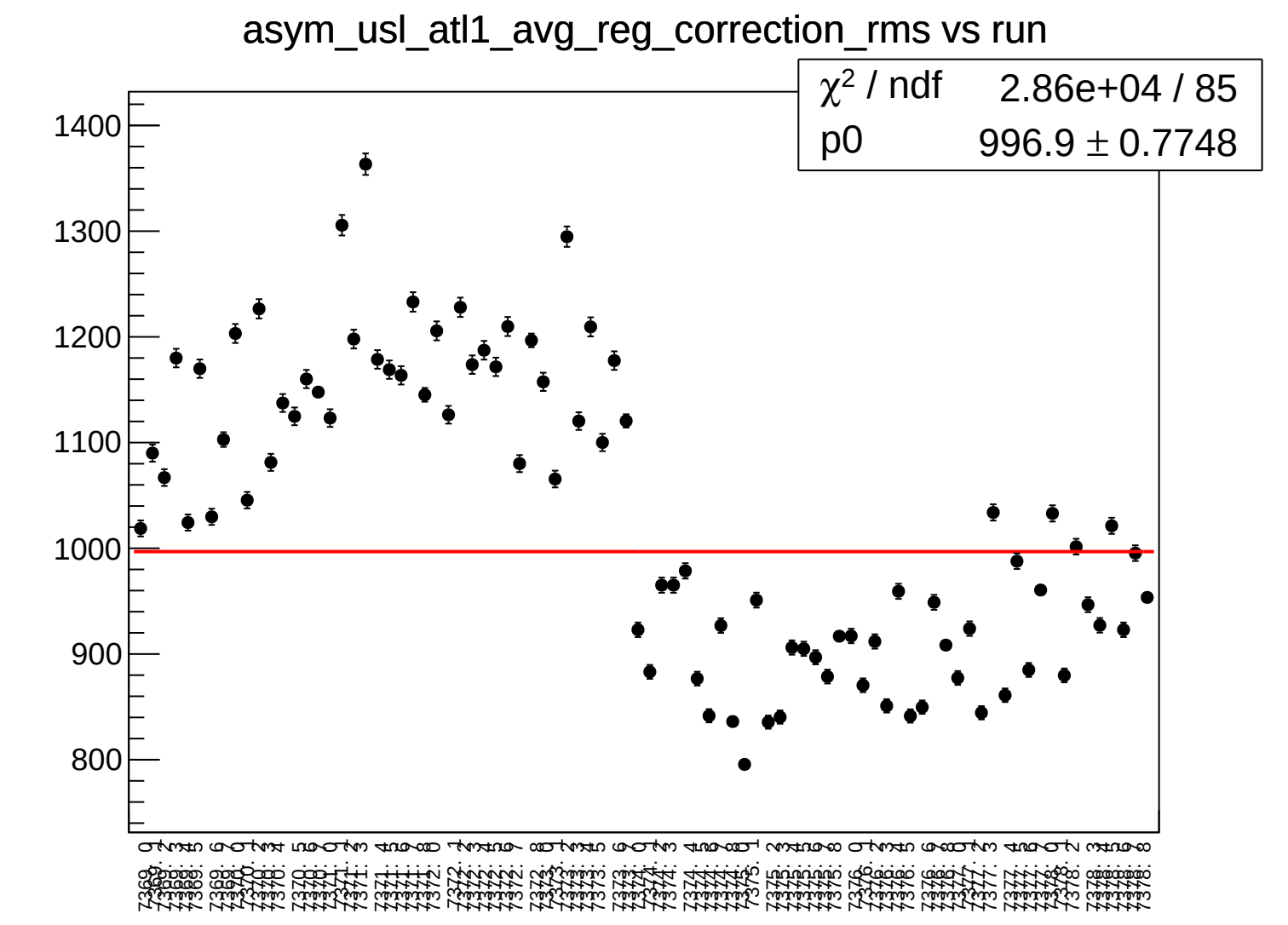

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.383e+05 / 85
p0 4.346e−12 ± 4.06e−15
40
35
30
25
20
15
10
5

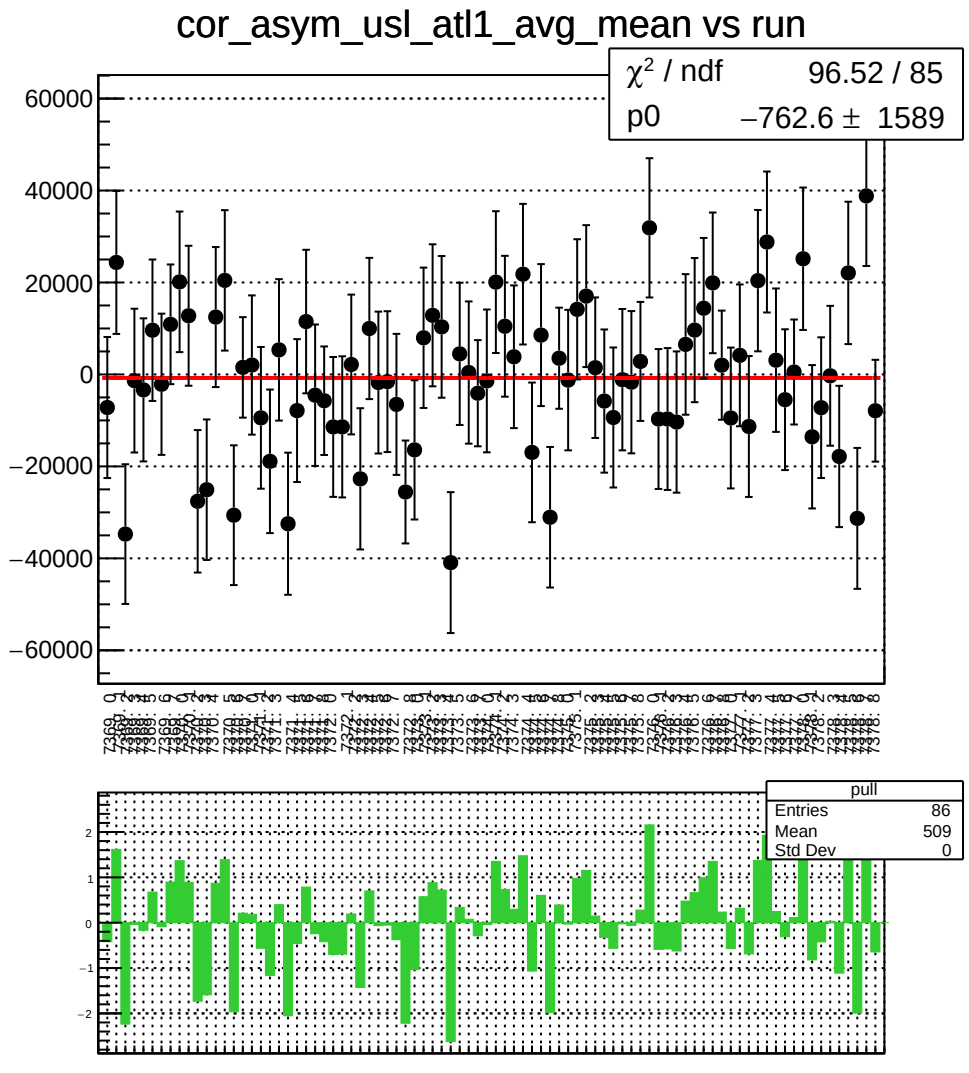

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 96.51 / 85
p0 −763 ± 1589
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 509
Std Dev 0
pull1D
Entries 86
Mean 0.008936
Std Dev 1.059

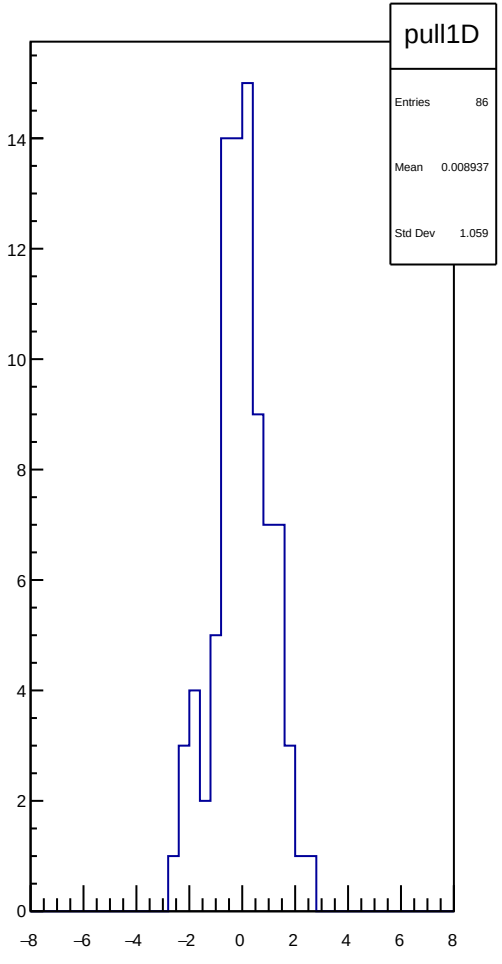

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 101.7 / 85
p0 1458 ± 1.124
1500
1490
1480
1470
1460
1450
1440
1430
1420

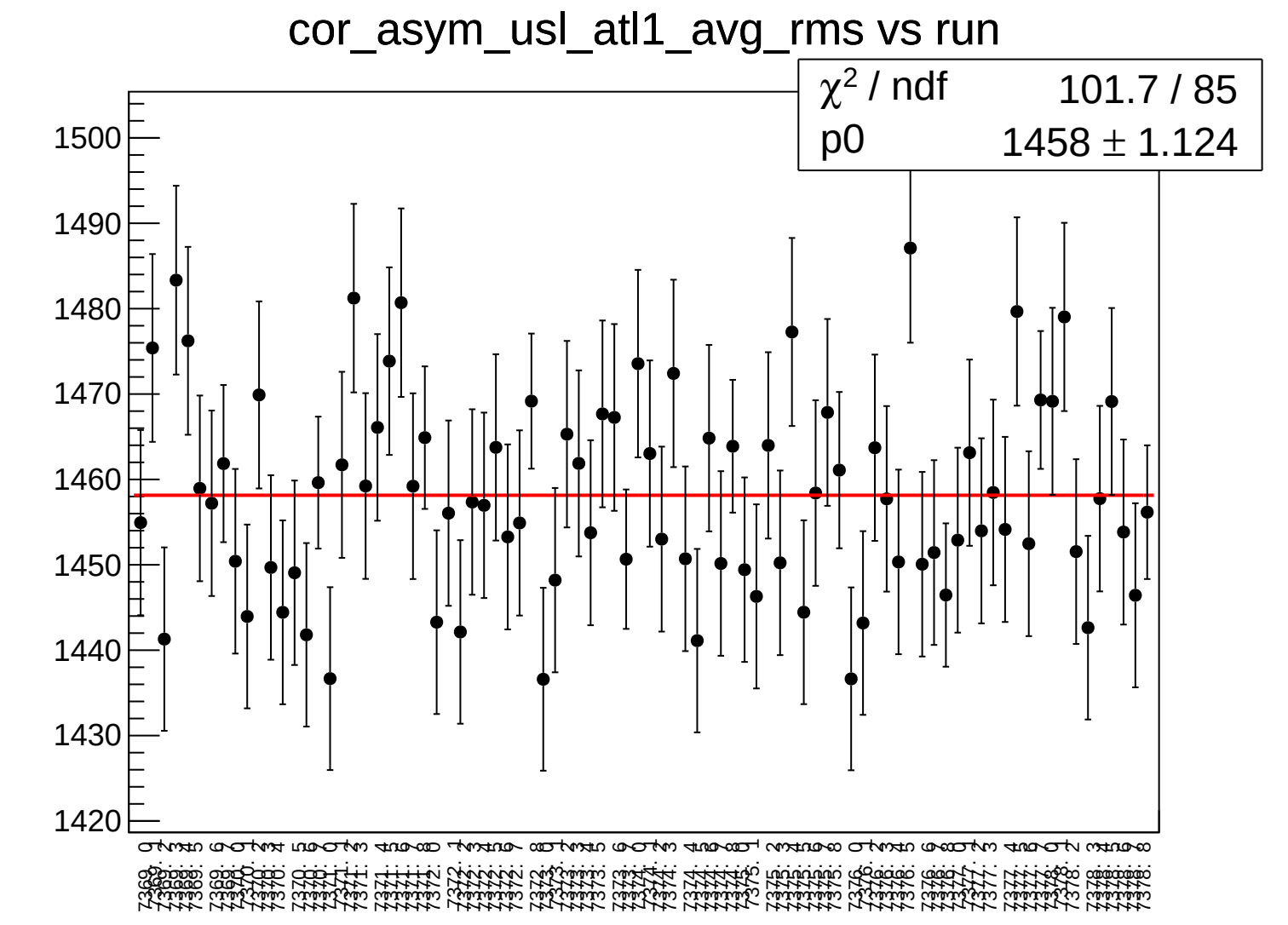

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 95.63 / 85
p0 −1274 ± 1096
pull
Entries 86
Mean −319.2
Std Dev 0

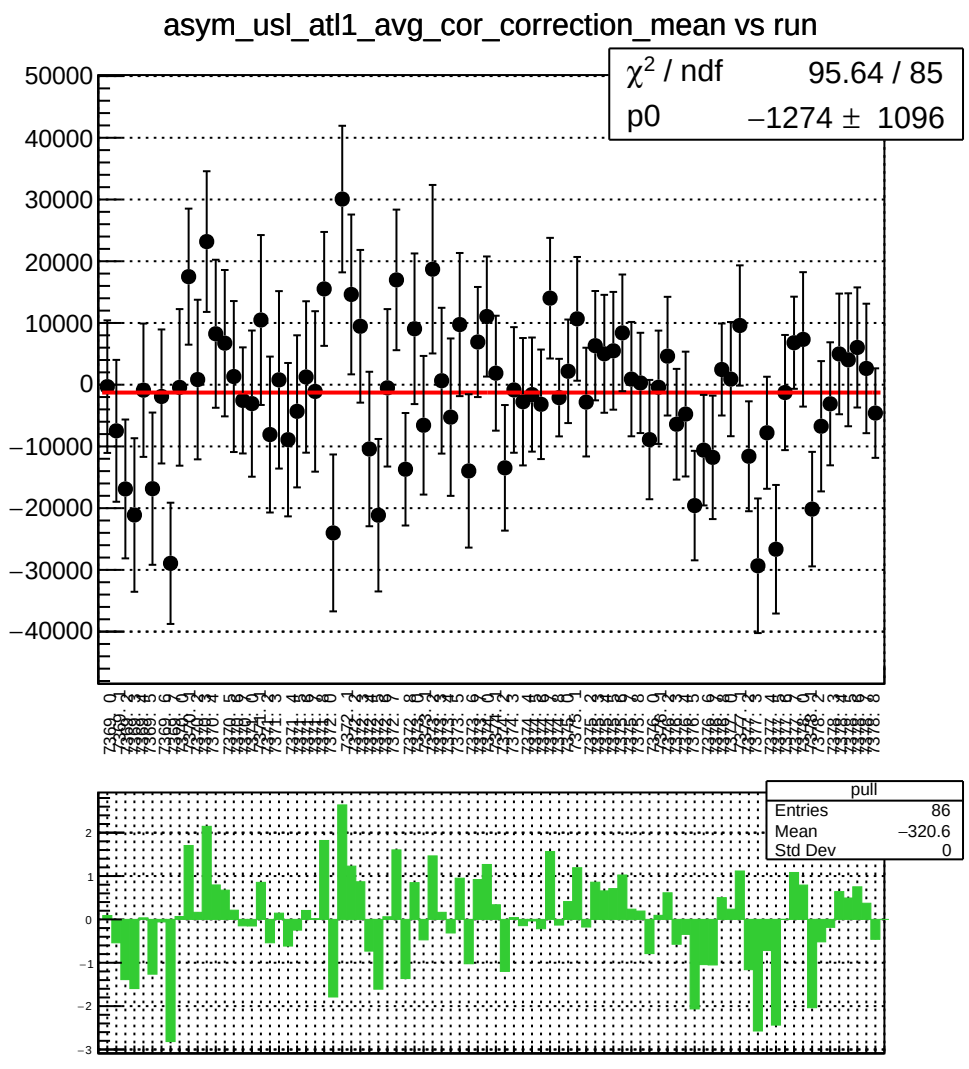

pull1D
Entries 86
Mean 0.00395
Std Dev 1.055

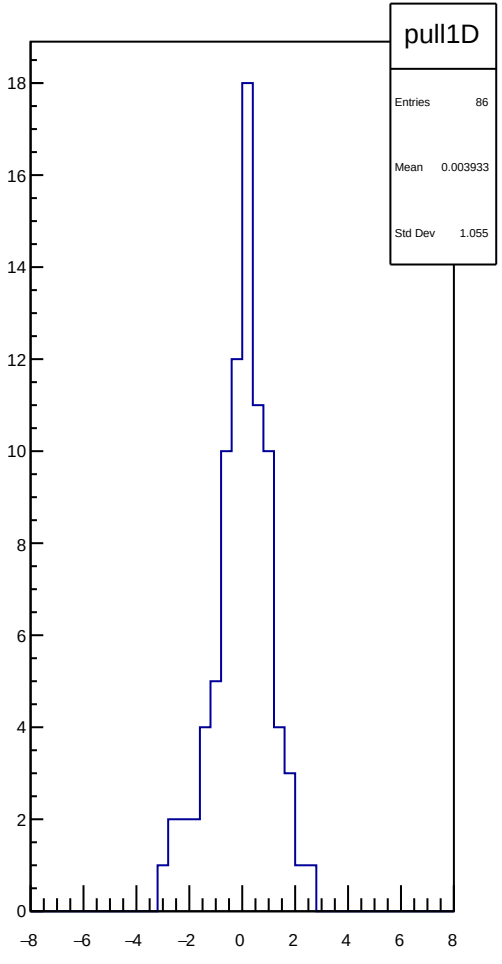

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 2.86e+04 / 85
p0 996.9 ± 0.7748
1400
1300
1200
1100
1000
900
800

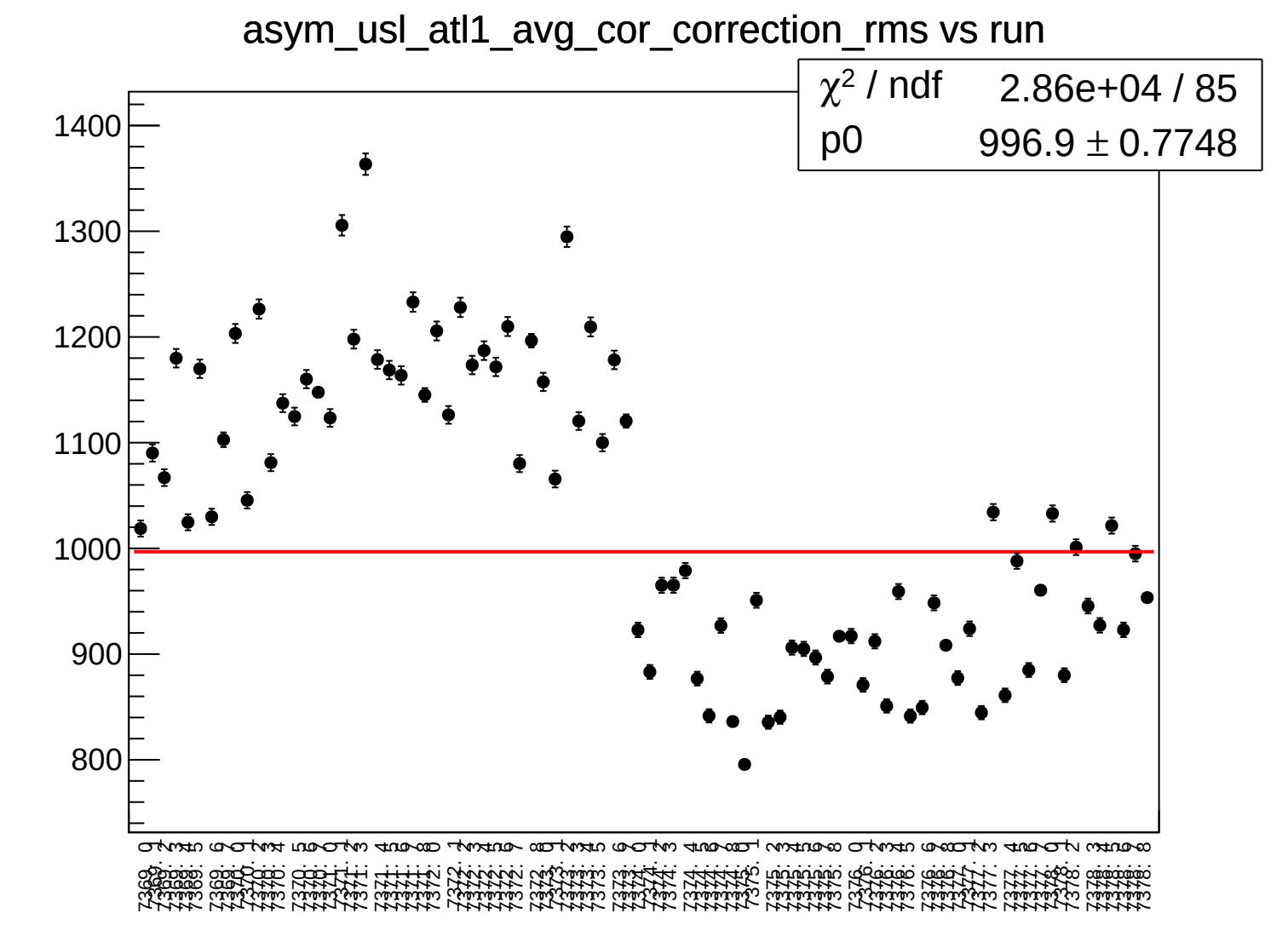

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 96.52 / 85
p0 −762.6 ± 1589
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 509
Std Dev 0
2
1
0
−1
−2

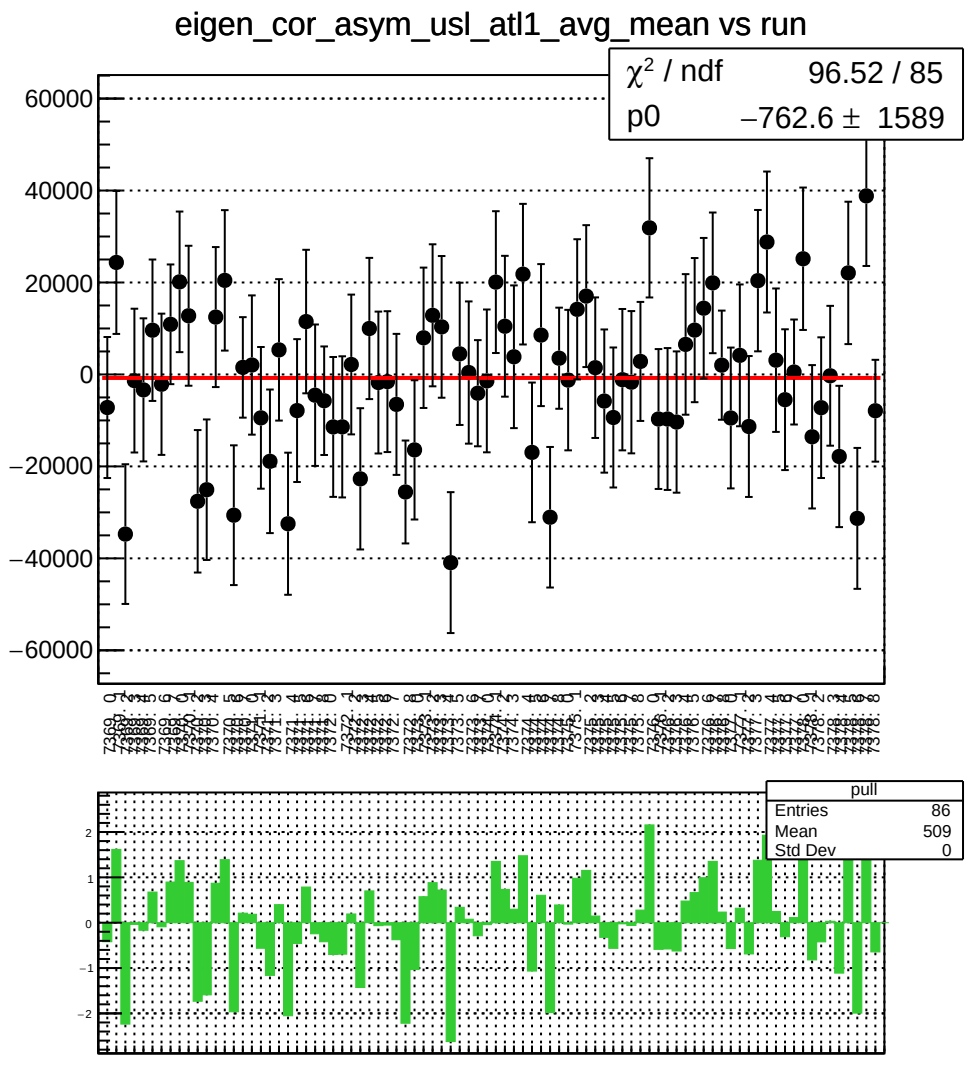

pull1D
Entries 86
Mean 0.008937
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

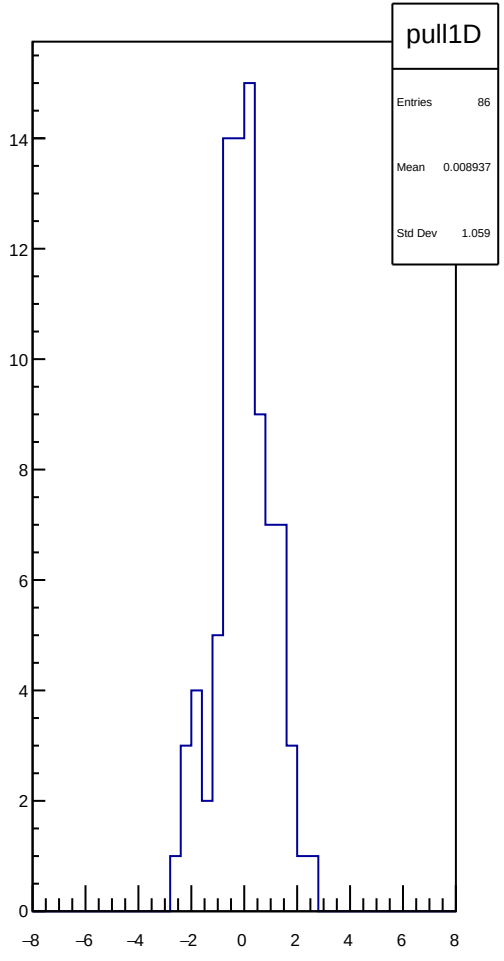

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 101.7 / 85
p0 1458 ± 1.124
1500
1490
1480
1470
1460
1450
1440
1430
1420

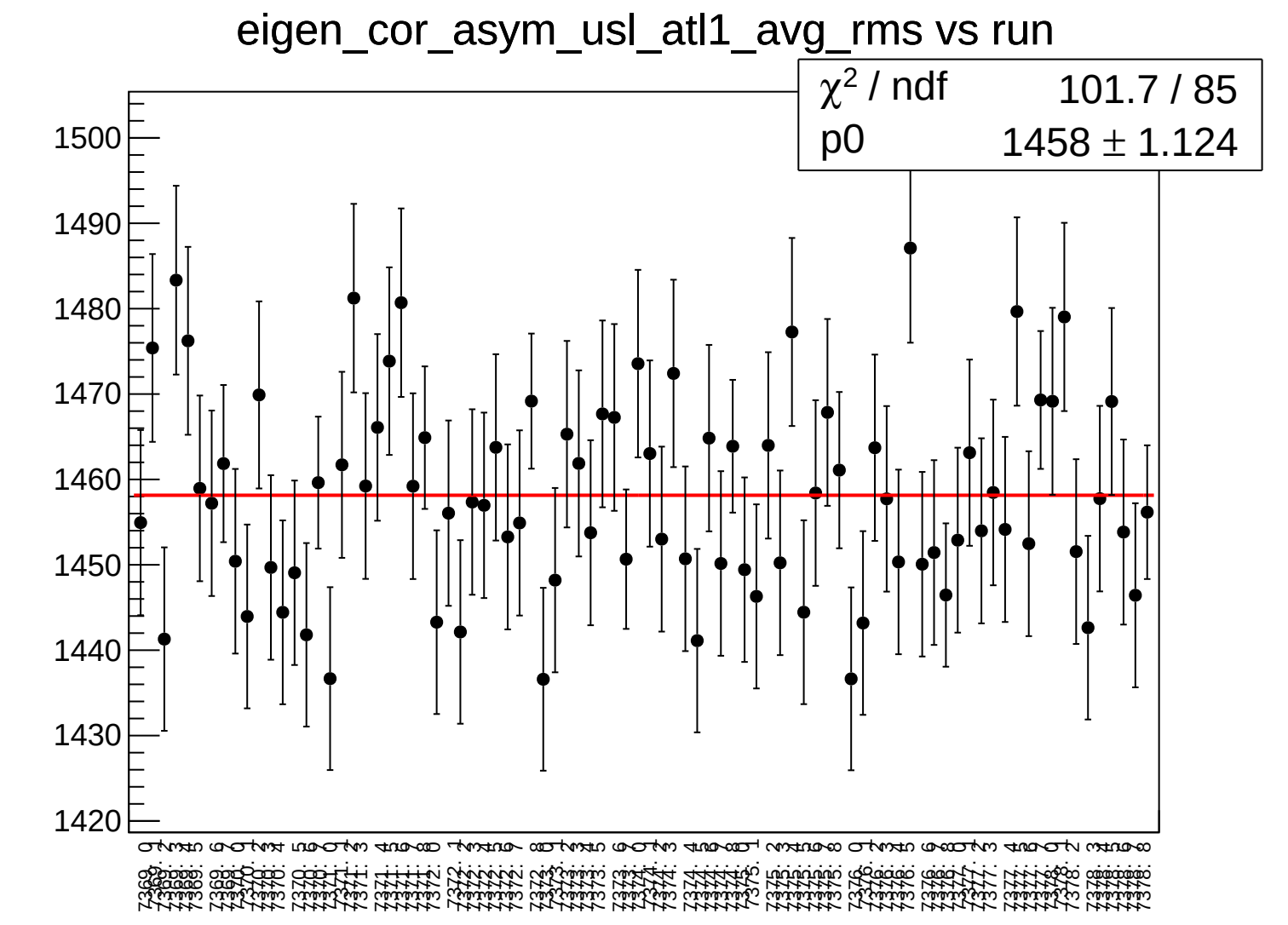

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 95.64 / 85
p0 −1274 ± 1096
pull
Entries 86
Mean −320.6
Std Dev 0

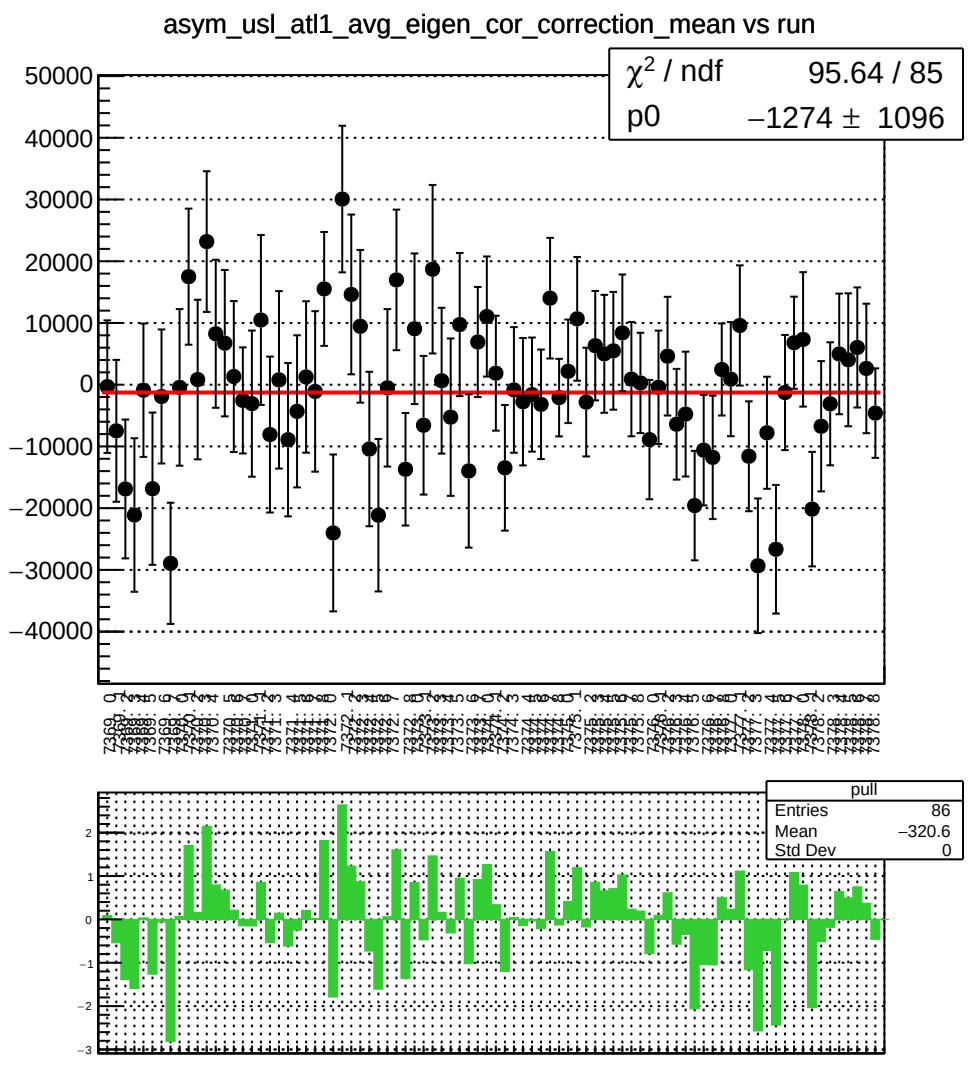

pull1D
Entries 86
Mean 0.003933
Std Dev 1.055

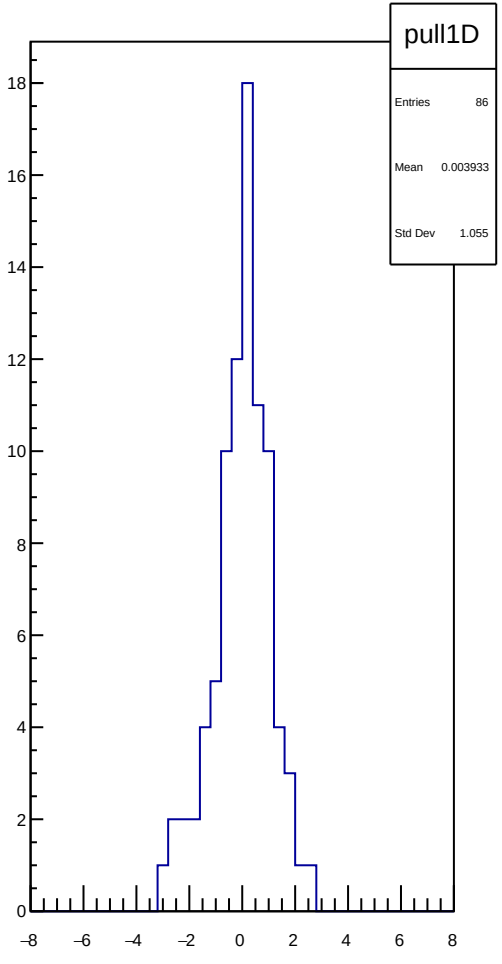

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 2.86e+04 / 85
p0 996.9 ± 0.7748
1400
1300
1200
1100
1000
900
800

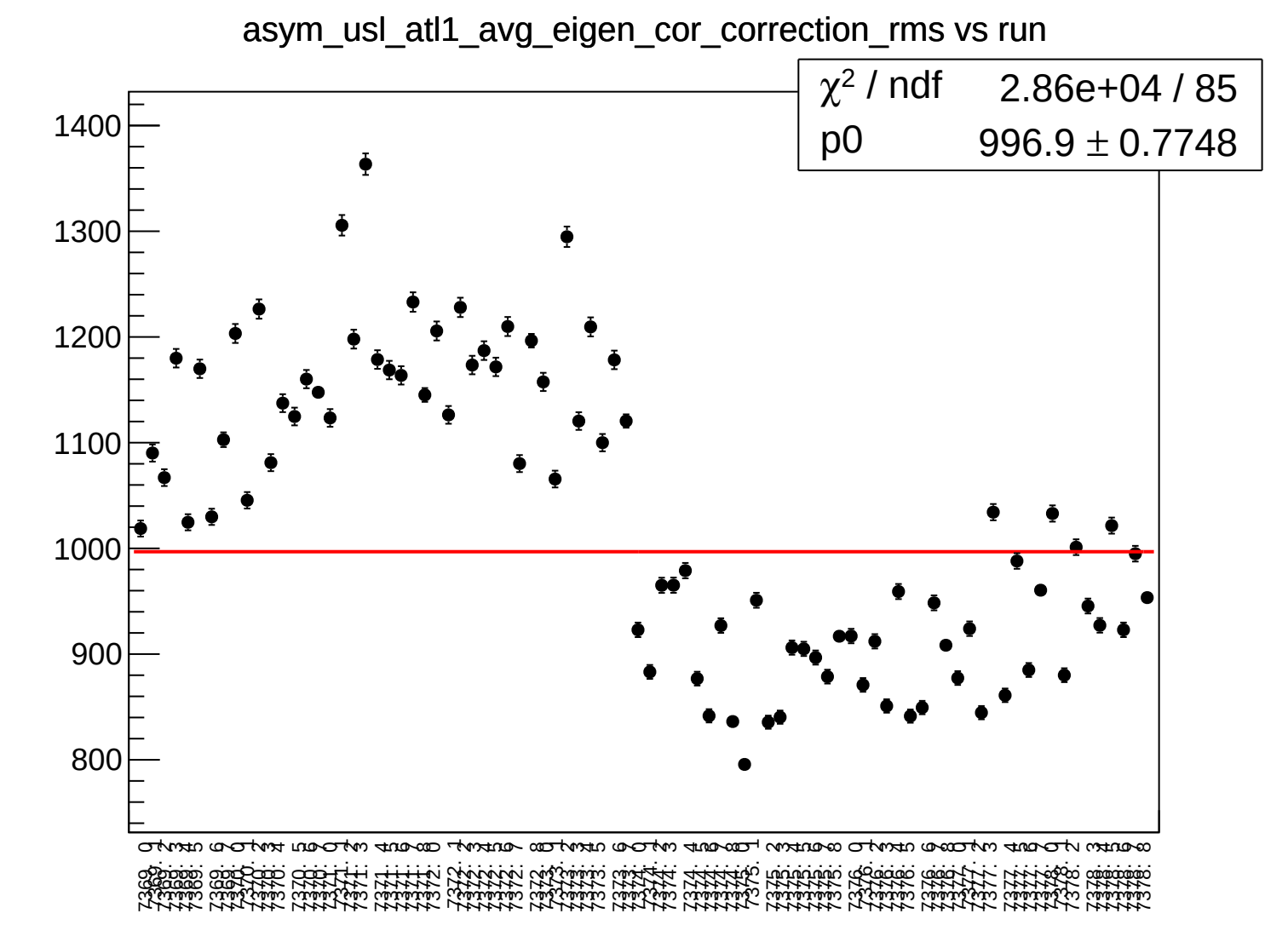

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 96.52 / 85
p0 −762.6 ± 1589
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 509
Std Dev 0
2
1
0
−1
−2

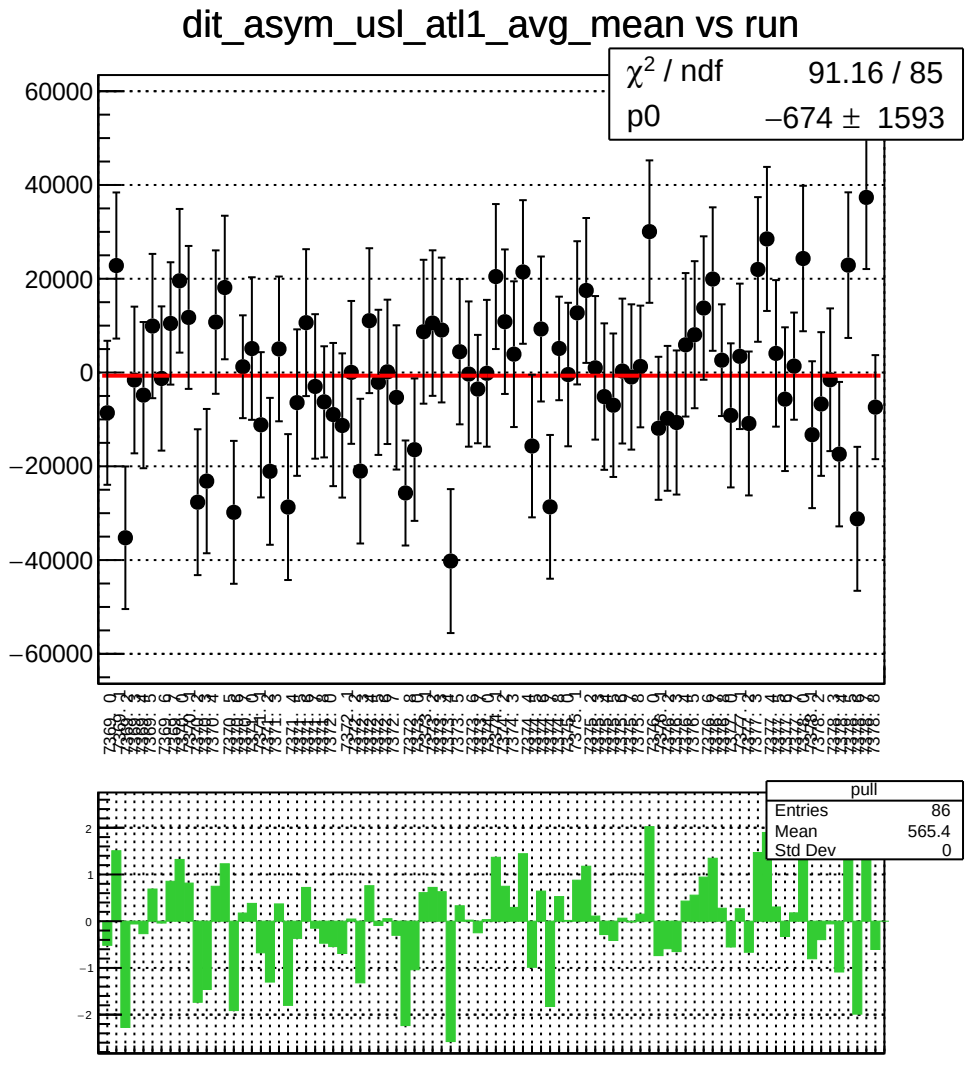

pull1D
Entries 86
Mean 0.008937
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

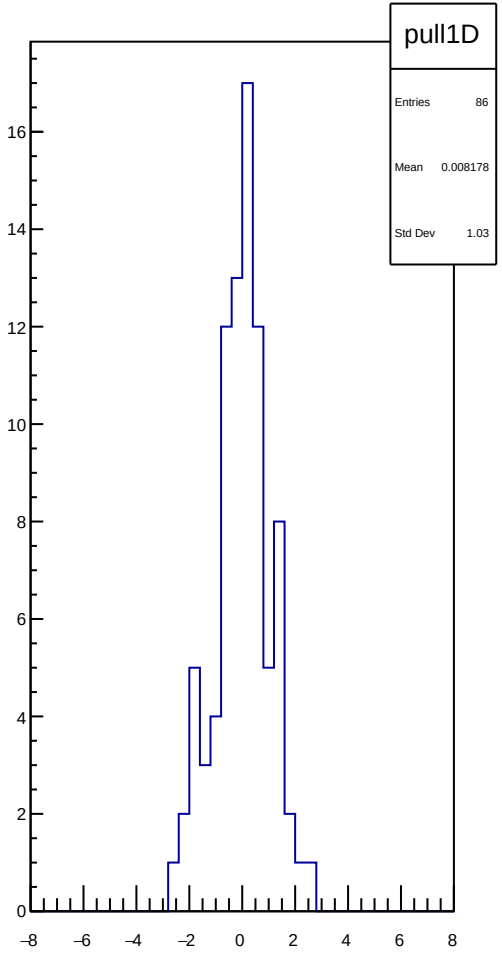

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 101.7 / 85
p0 1458 ± 1.124
1500
1490
1480
1470
1460
1450
1440
1430
1420

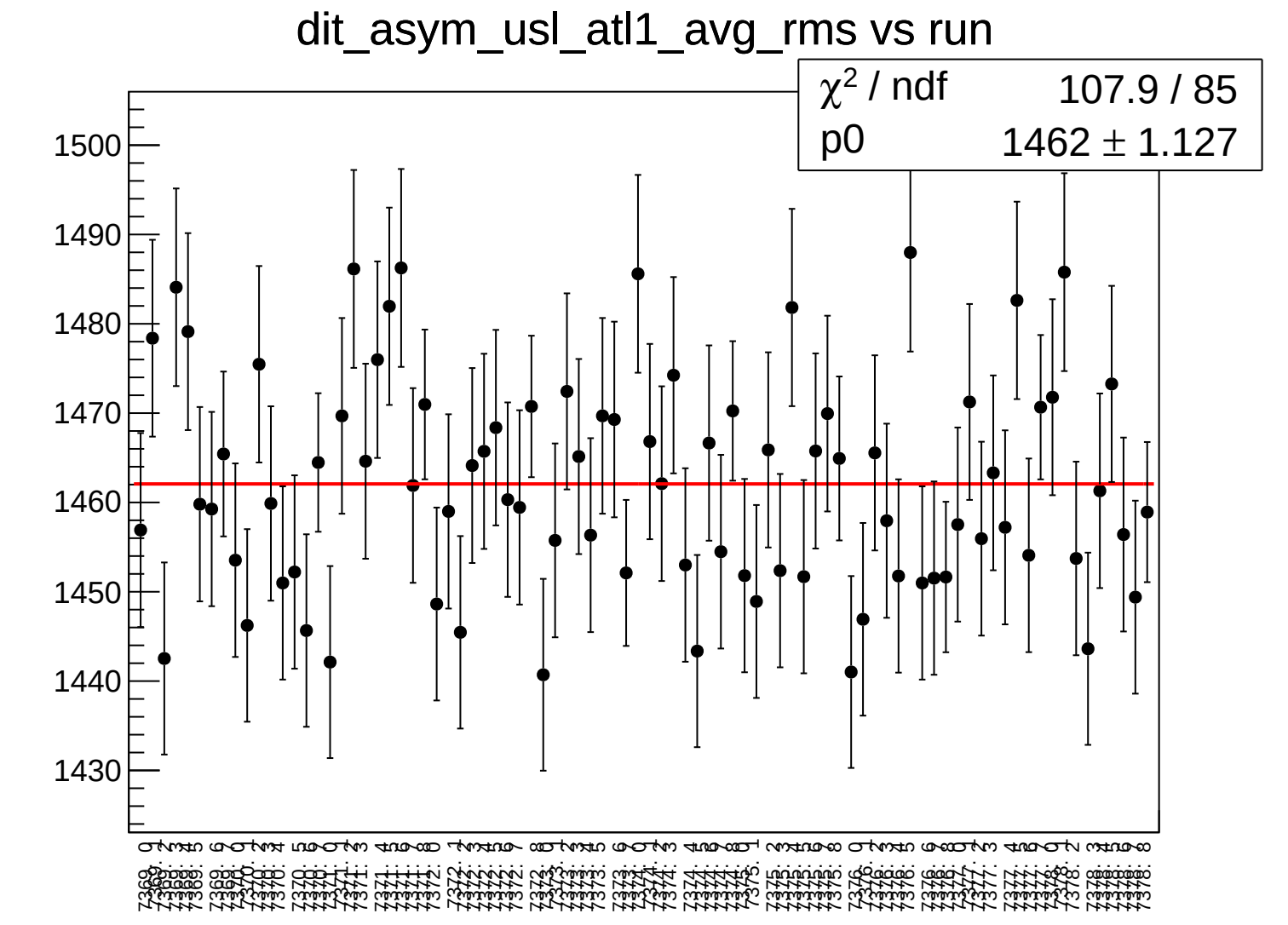

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.64 / 85
p0 −1274 ± 1096
pull
Entries 86
Mean −320.6
Std Dev 0

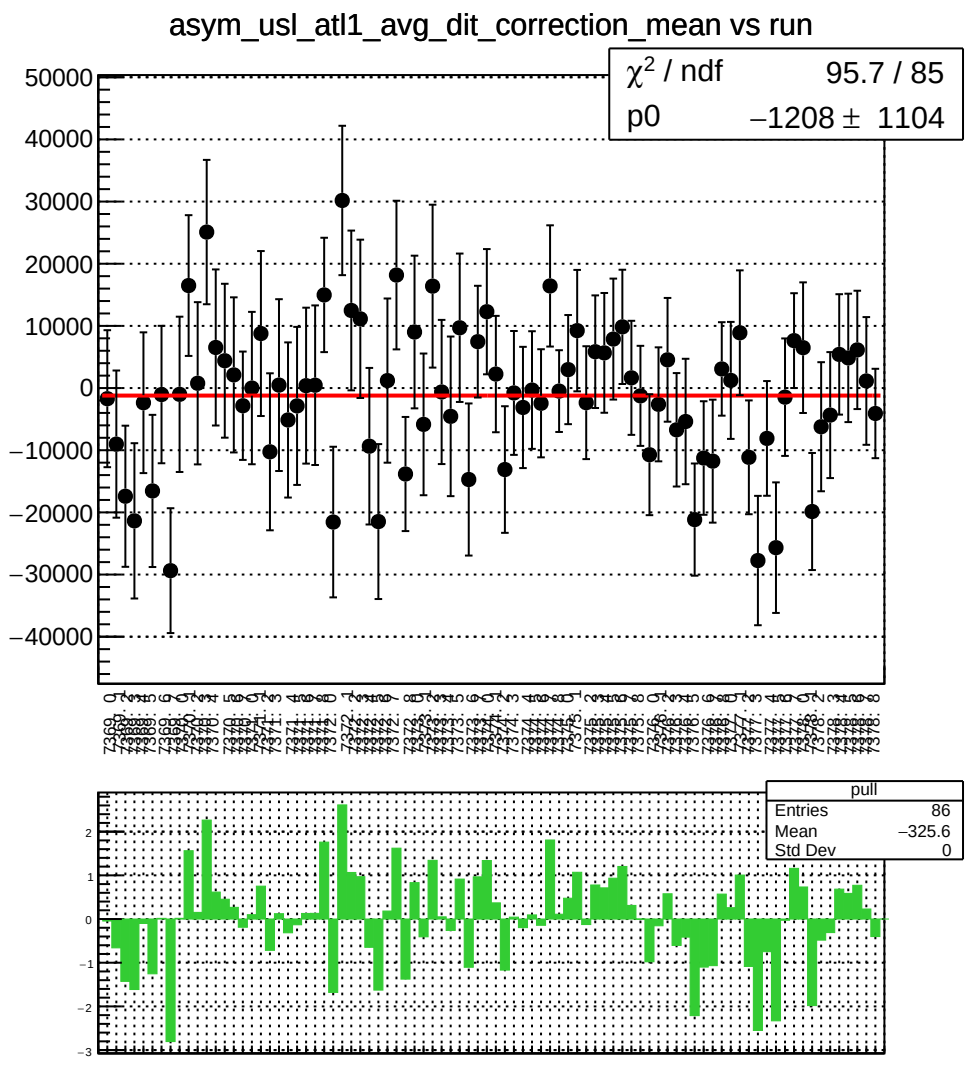

pull1D
Entries 86
Mean 0.003933
Std Dev 1.055

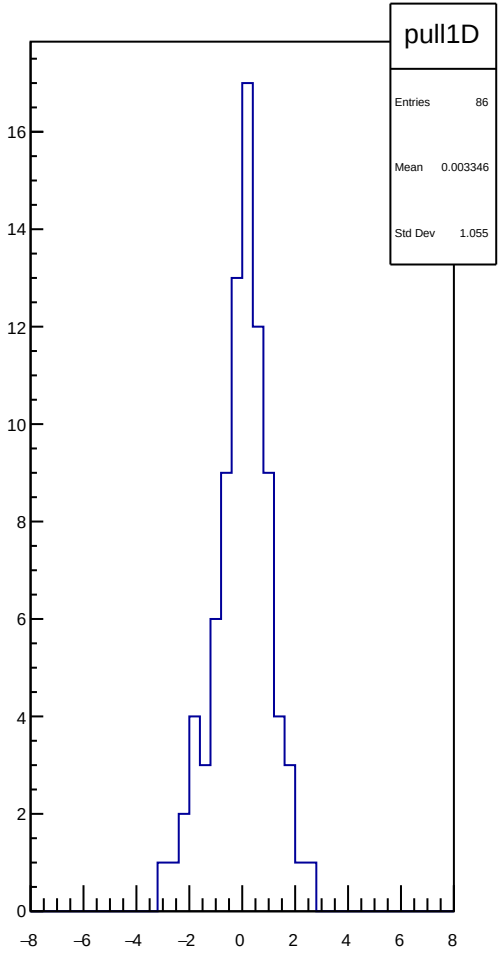

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.86e+04 / 85
p0 996.9 ± 0.7748
1400
1300
1200
1100
1000
900
800

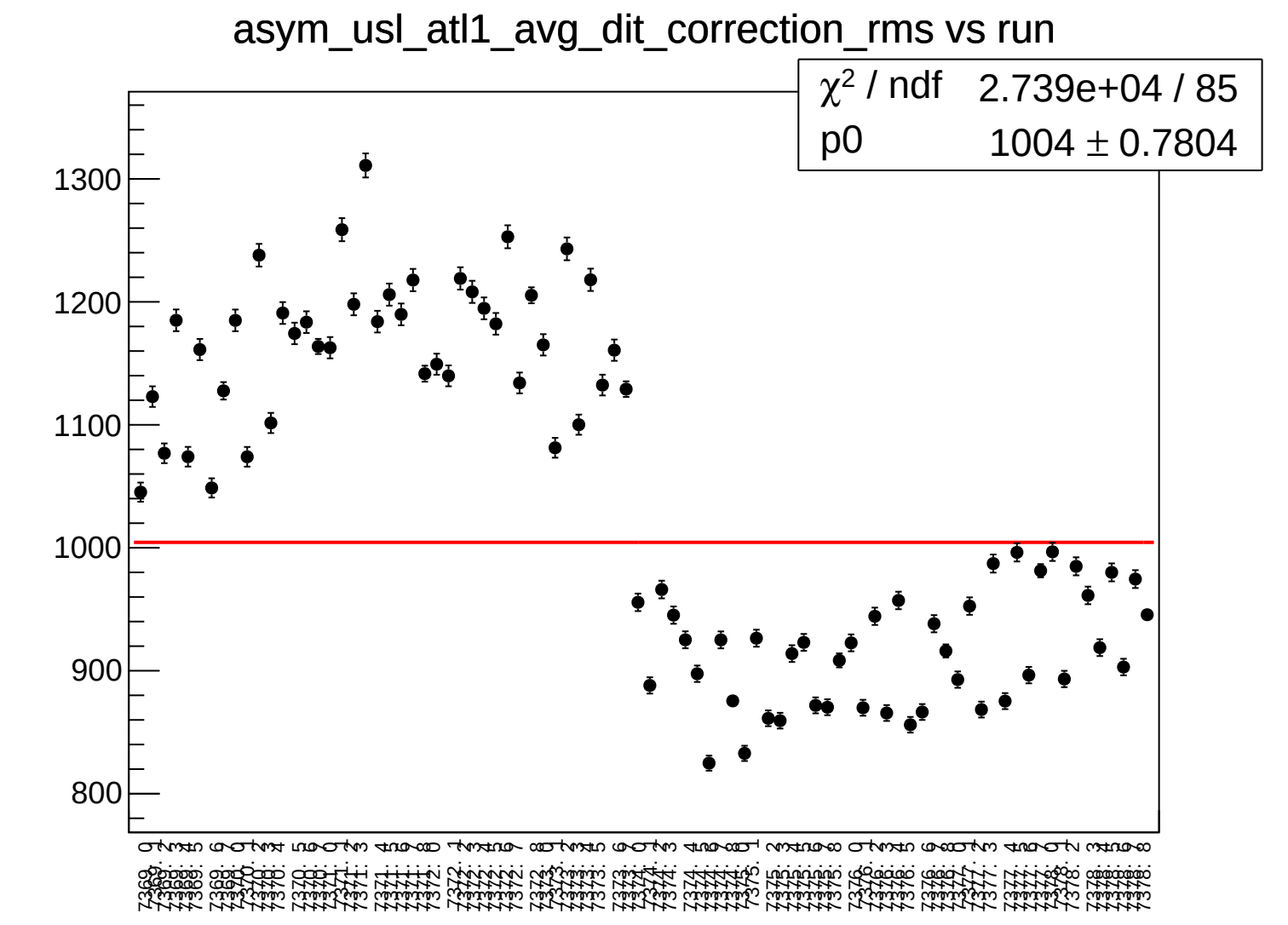

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 91.16 / 85
p0 −674 ± 1593
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 565.4
Std Dev 0
2
1
0
−1
−2

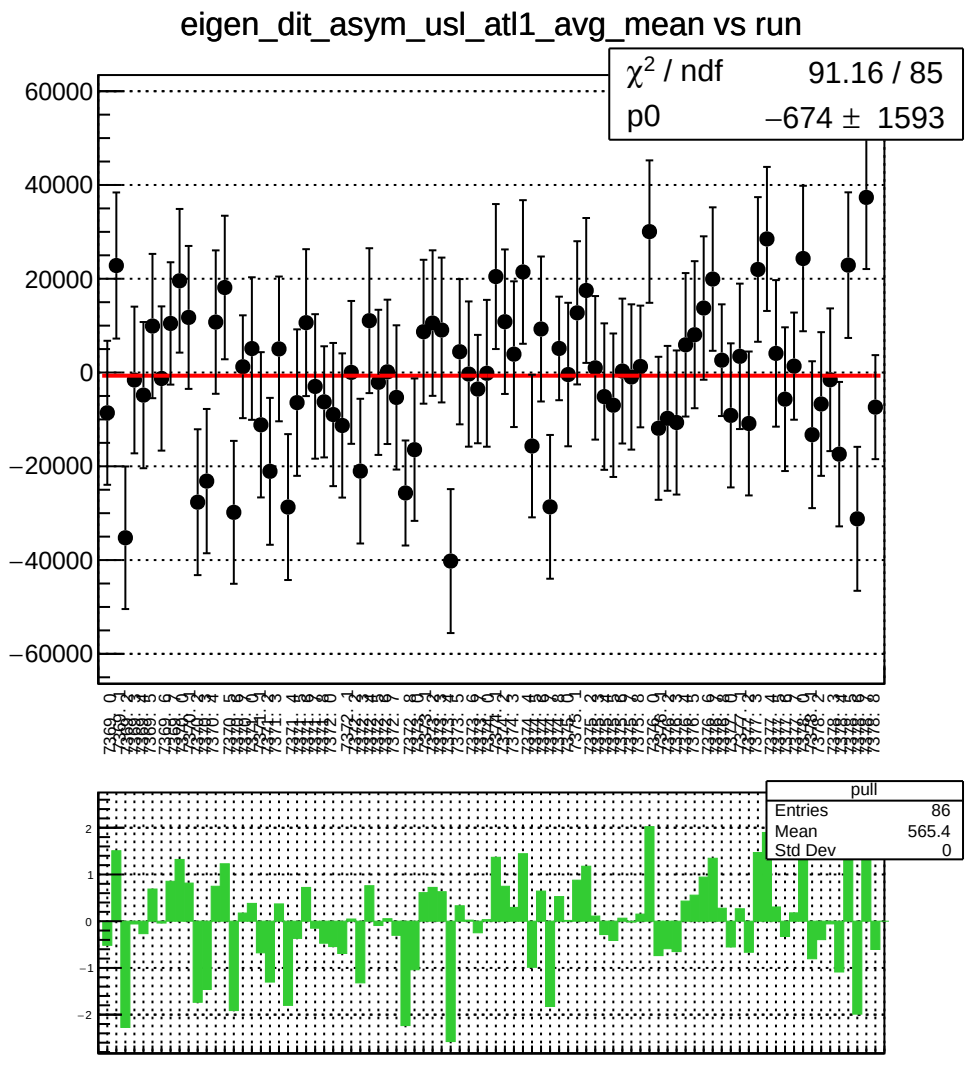

pull1D
Entries 86
Mean 0.008178
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

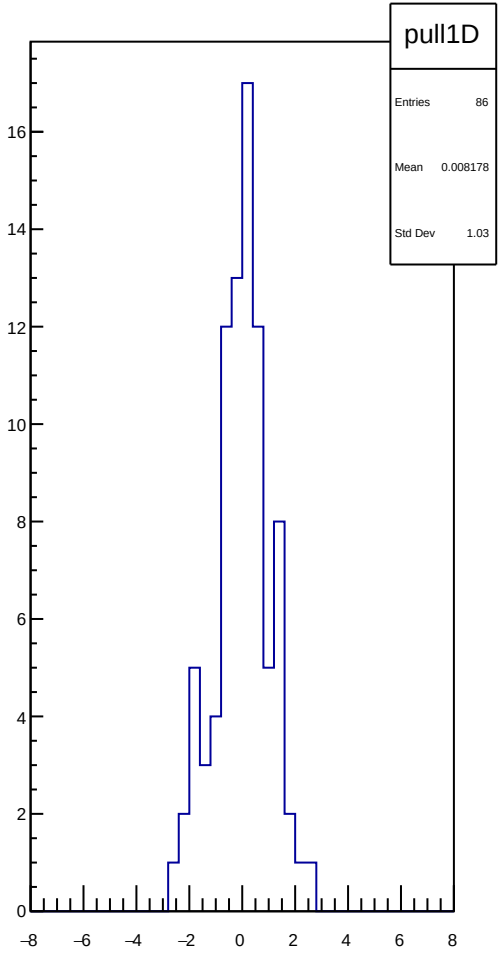

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 107.9 / 85
p0 1462 ± 1.127
1500
1490
1480
1470
1460
1450
1440
1430

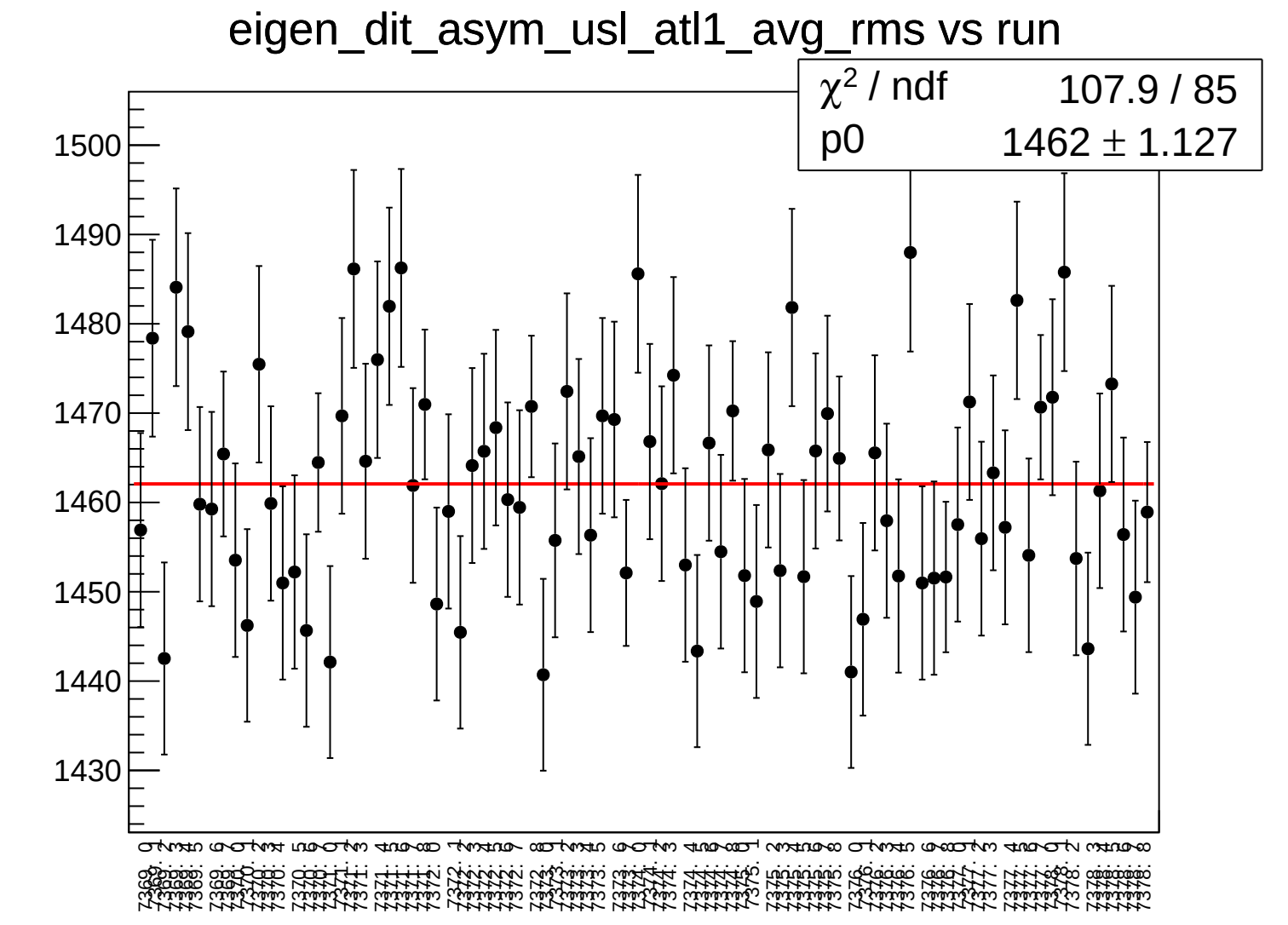

asym_usl_atl1_avg_dit_correction_mean vs run
χ^2 / ndf 95.7 / 85
p0 −1208 ± 1104
pull
Entries 86
Mean −325.6
Std Dev 0

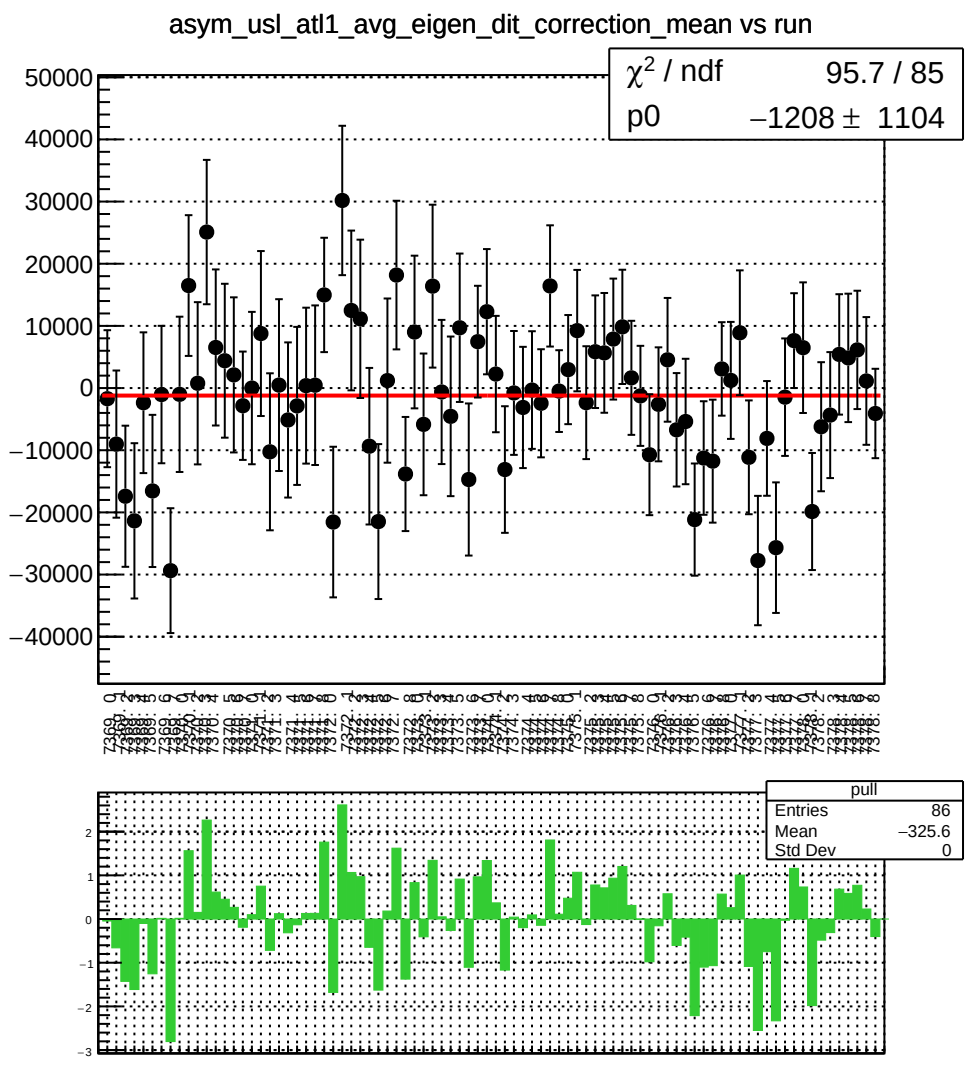

pull1D
Entries 86
Mean 0.003346
Std Dev 1.055

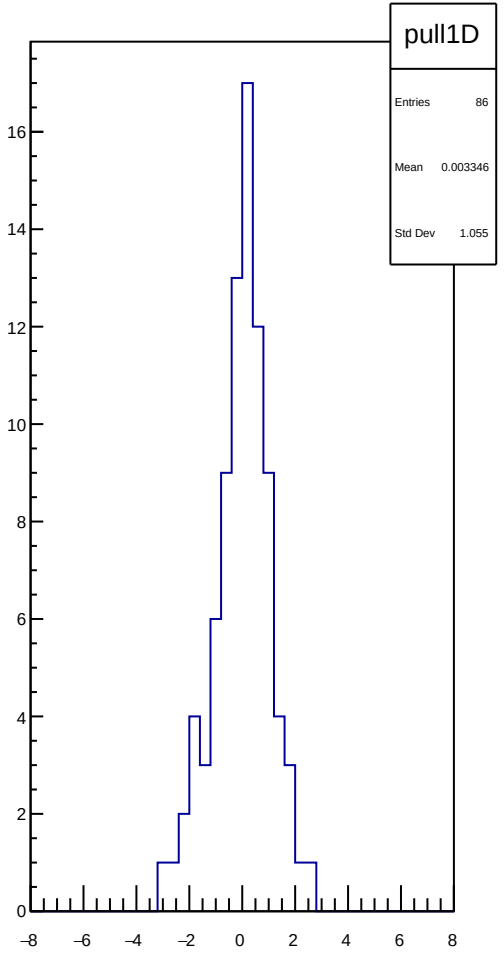

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 2.739e+04 / 85
p0 1004 ± 0.7804
1300
1200
1100
1000
900
800

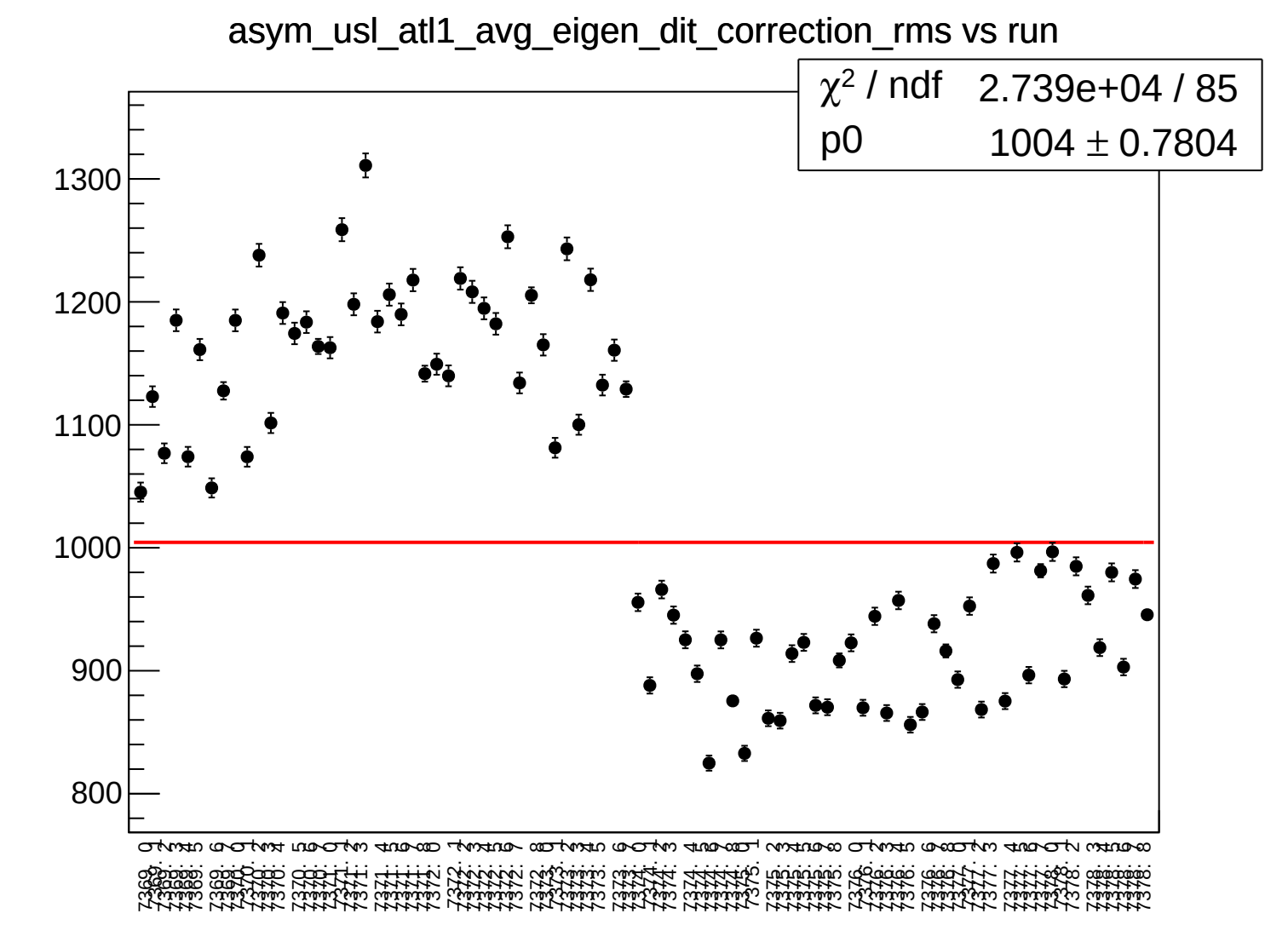

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 91.16 / 85
p0 −674 ± 1593
pull
Entries 86
Mean 565.4
Std Dev 0

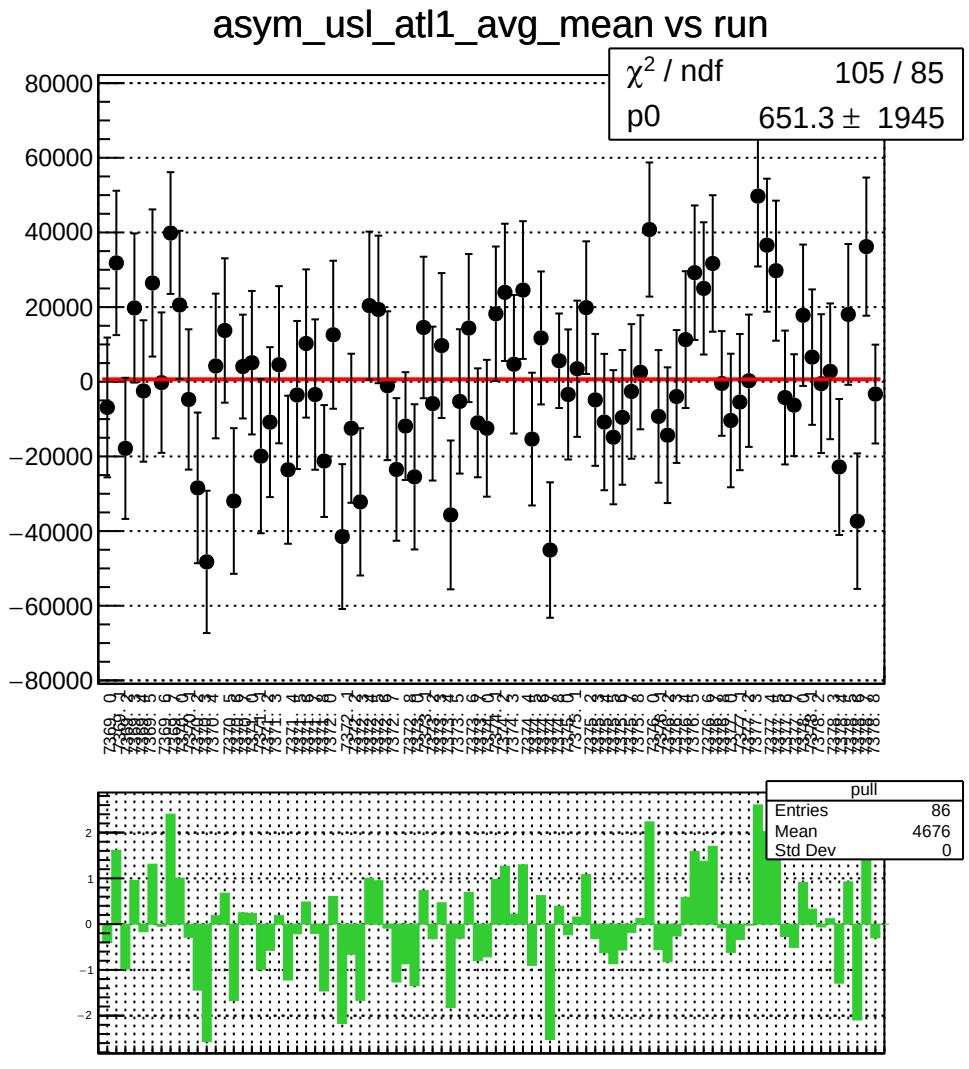

pull1D
Entries 86
Mean 0.008178
Std Dev 1.03

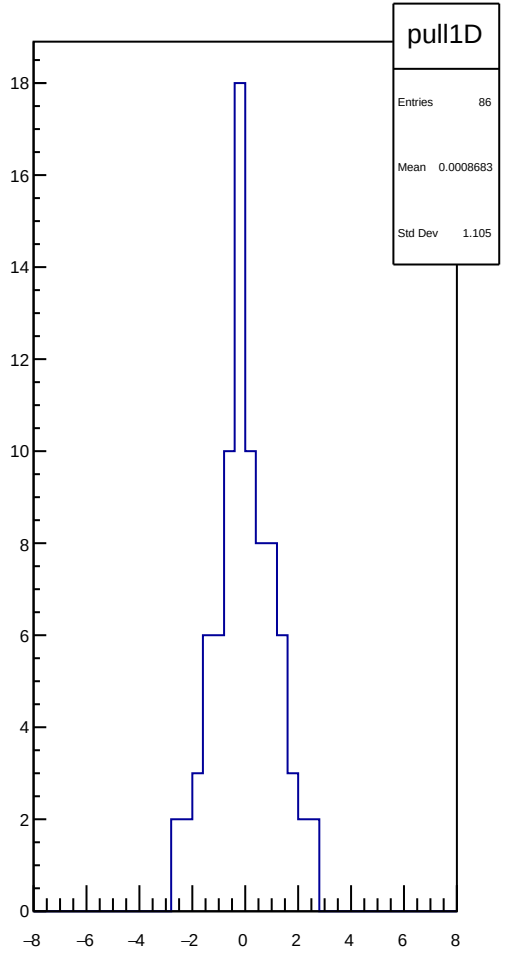

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 107.9 / 85
p0 1462 ± 1.127
1500
1490
1480
1470
1460
1450
1440
1430

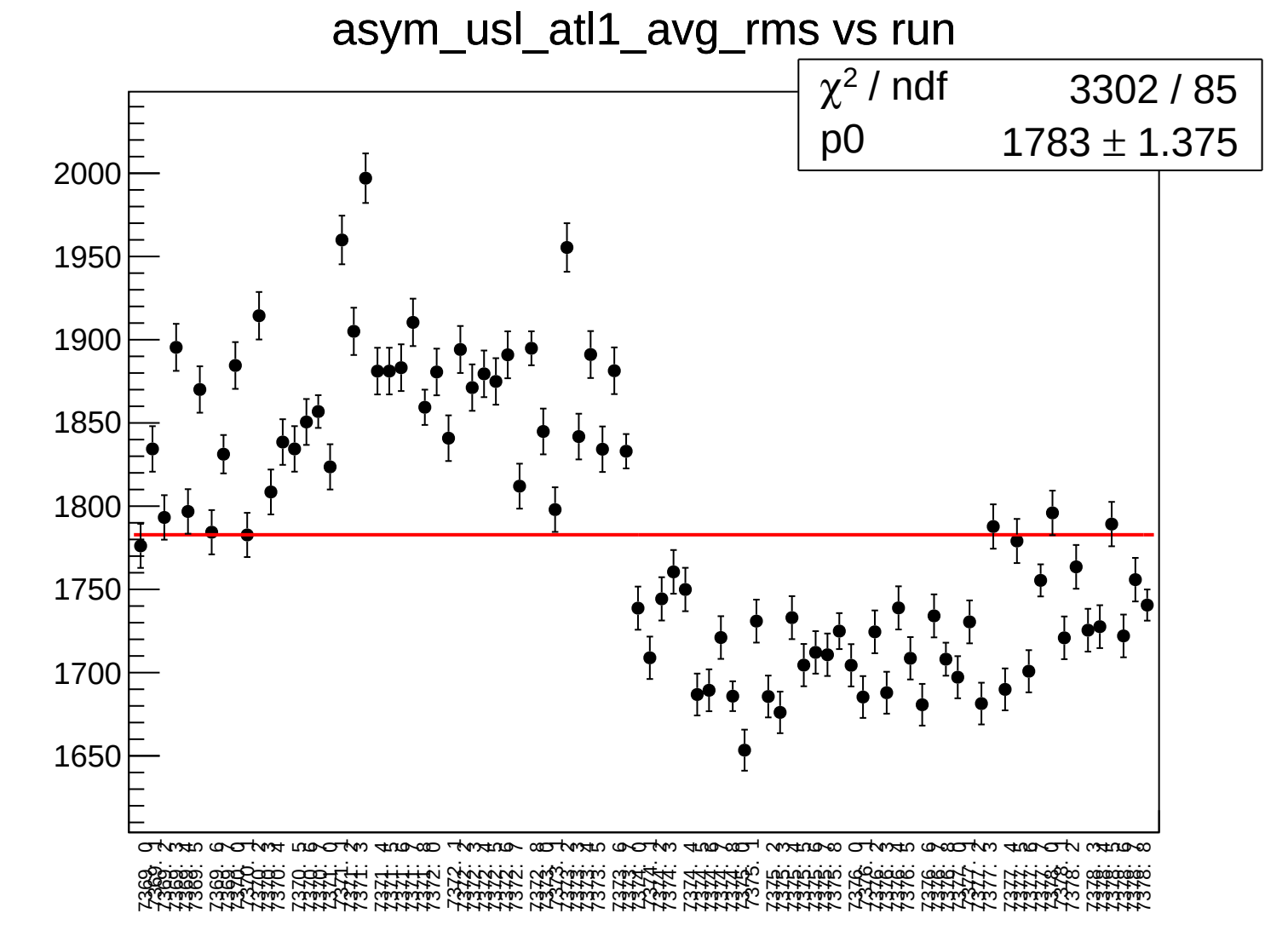

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.7 / 85
p0 −1208 ± 1104
pull
Entries 86
Mean −325.6
Std Dev 0

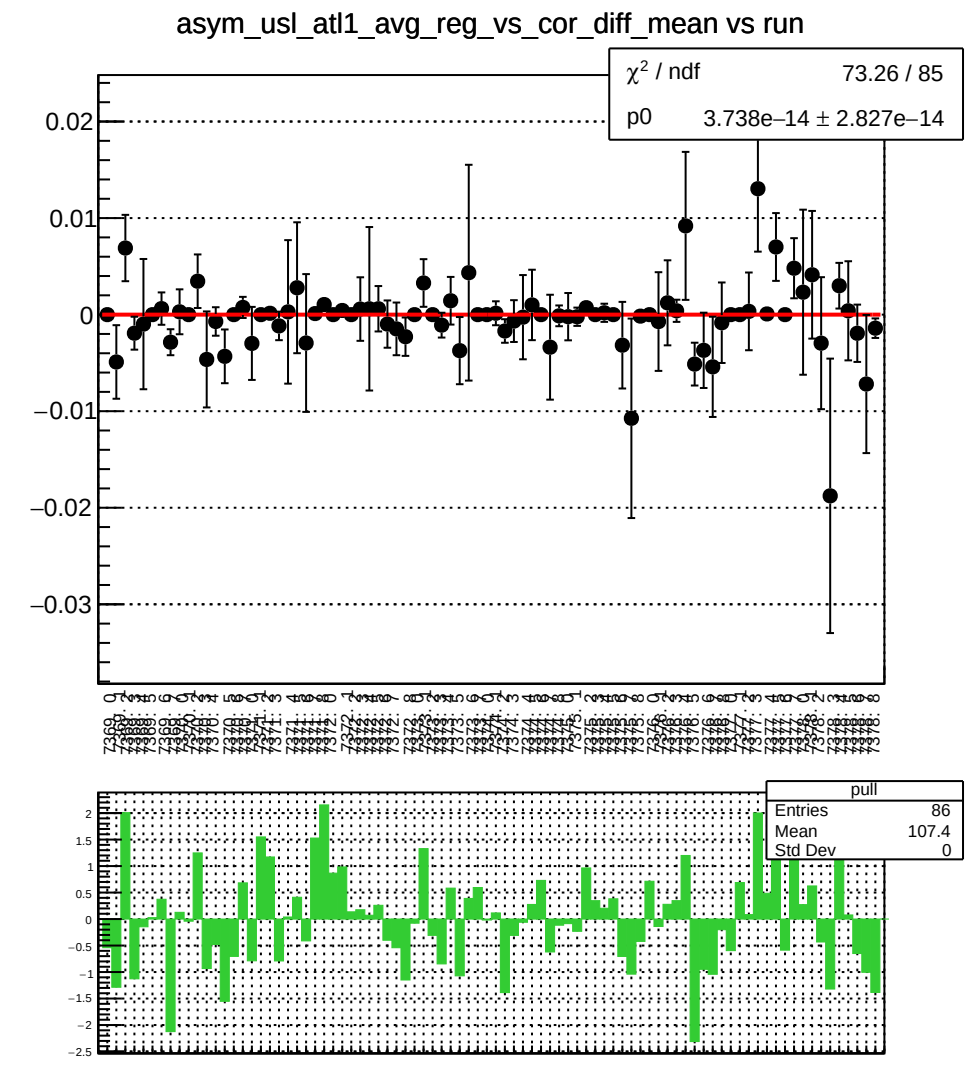

pull1D
Entries 86
Mean 0.003346
Std Dev 1.055

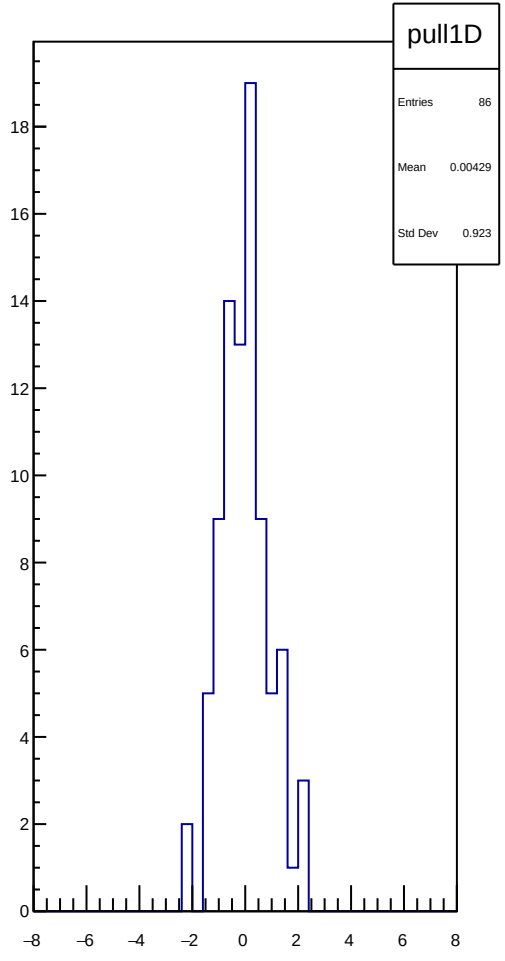

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.739e+04 / 85
p0 1004 ± 0.7804
1300
1200
1100
1000
900
800

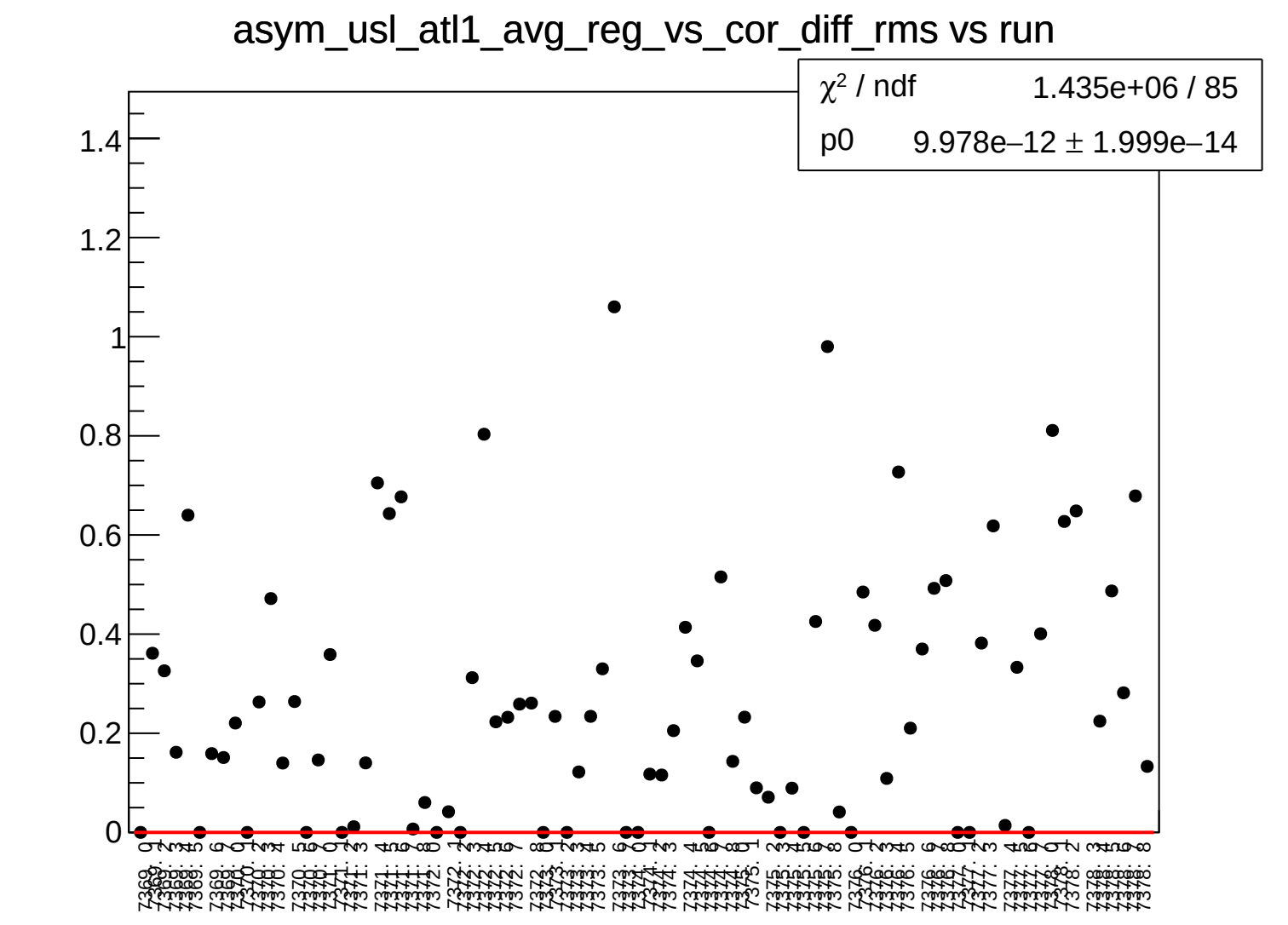

asym_usl_atl1_avg_mean vs run
χ² / ndf 105 / 85
p0 651.3 ± 1945
pull
Entries 86
Mean 4676
Std Dev 0

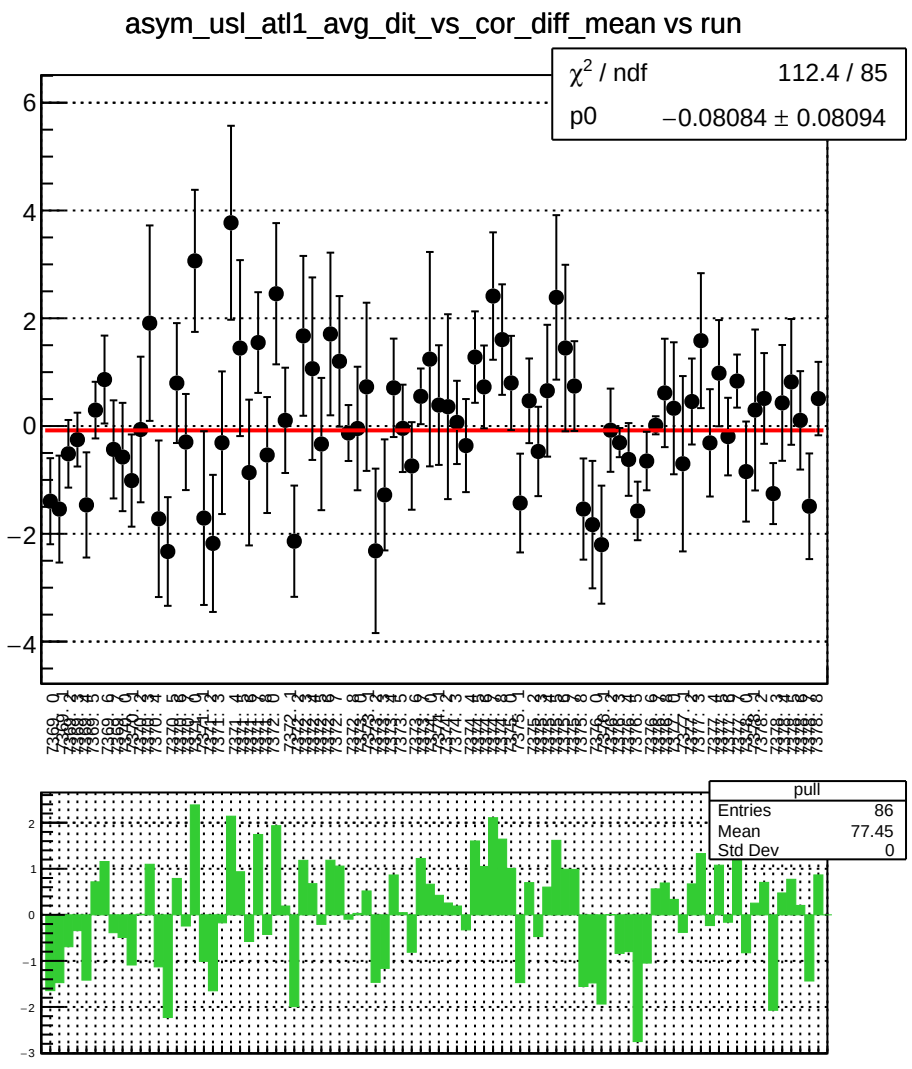

pull1D
Entries 86
Mean 0.0008683
Std Dev 1.105

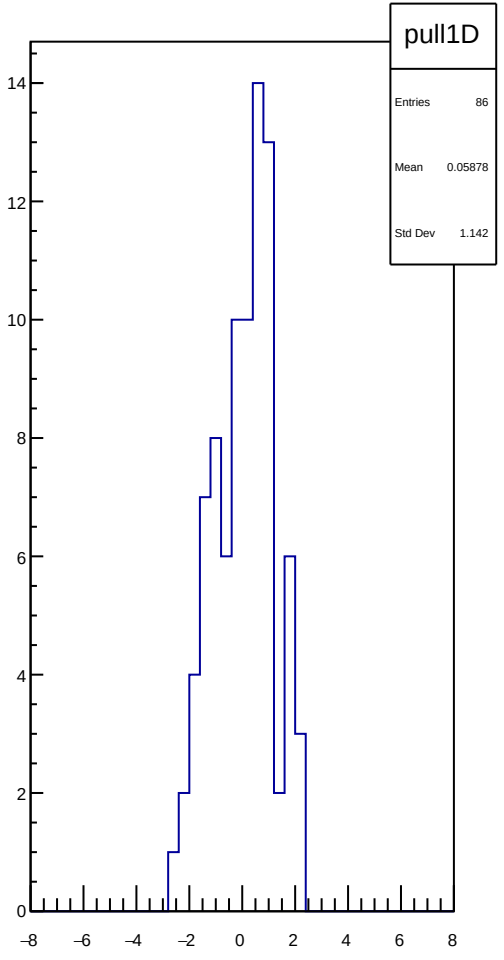

asym_usl_atl1_avg_rms vs run
χ² / ndf 3302 / 85
p0 1783 ± 1.375
2000
1950
1900
1850
1800
1750
1700
1650

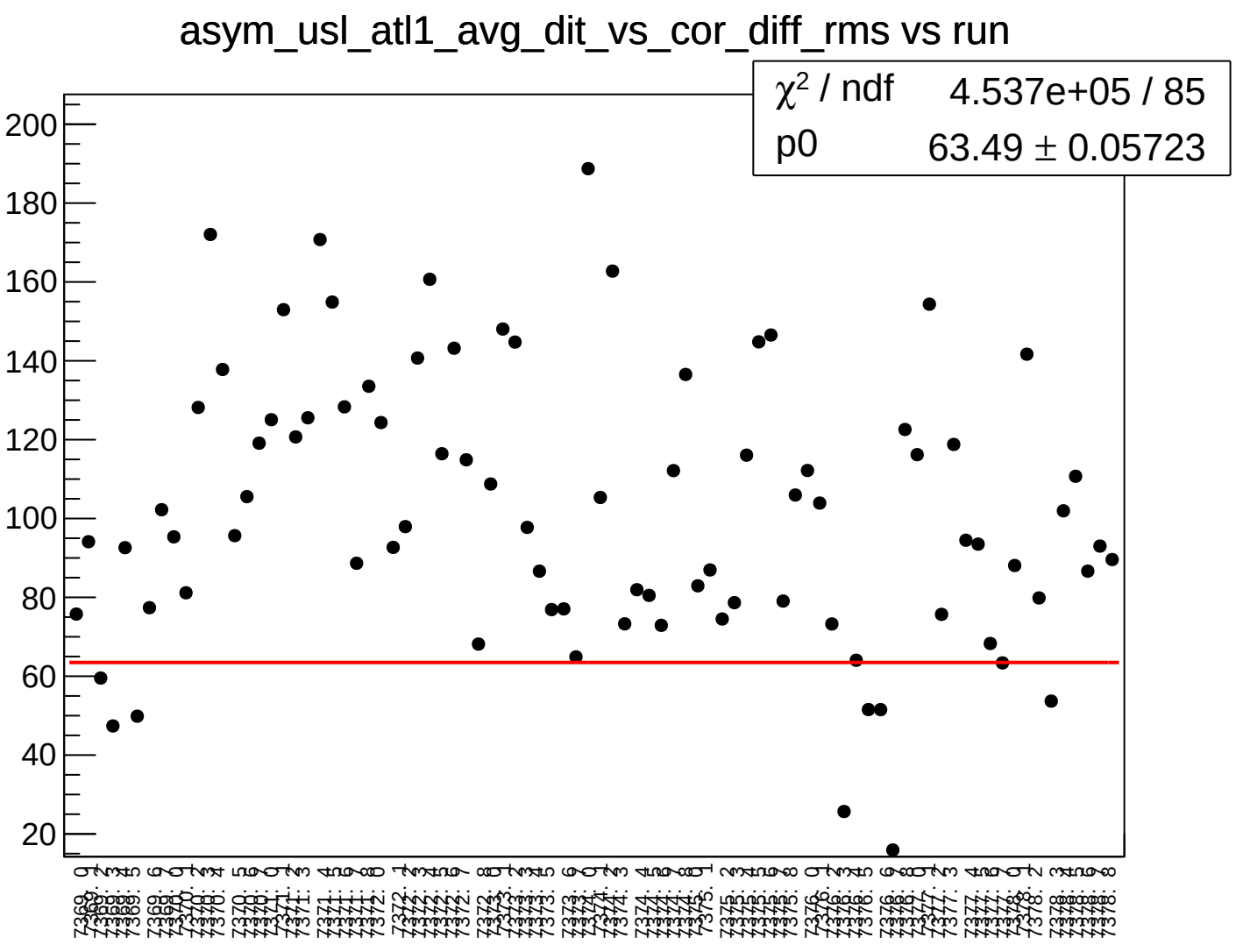

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.26 / 85
p0 3.738e−14 ± 2.827e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 107.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

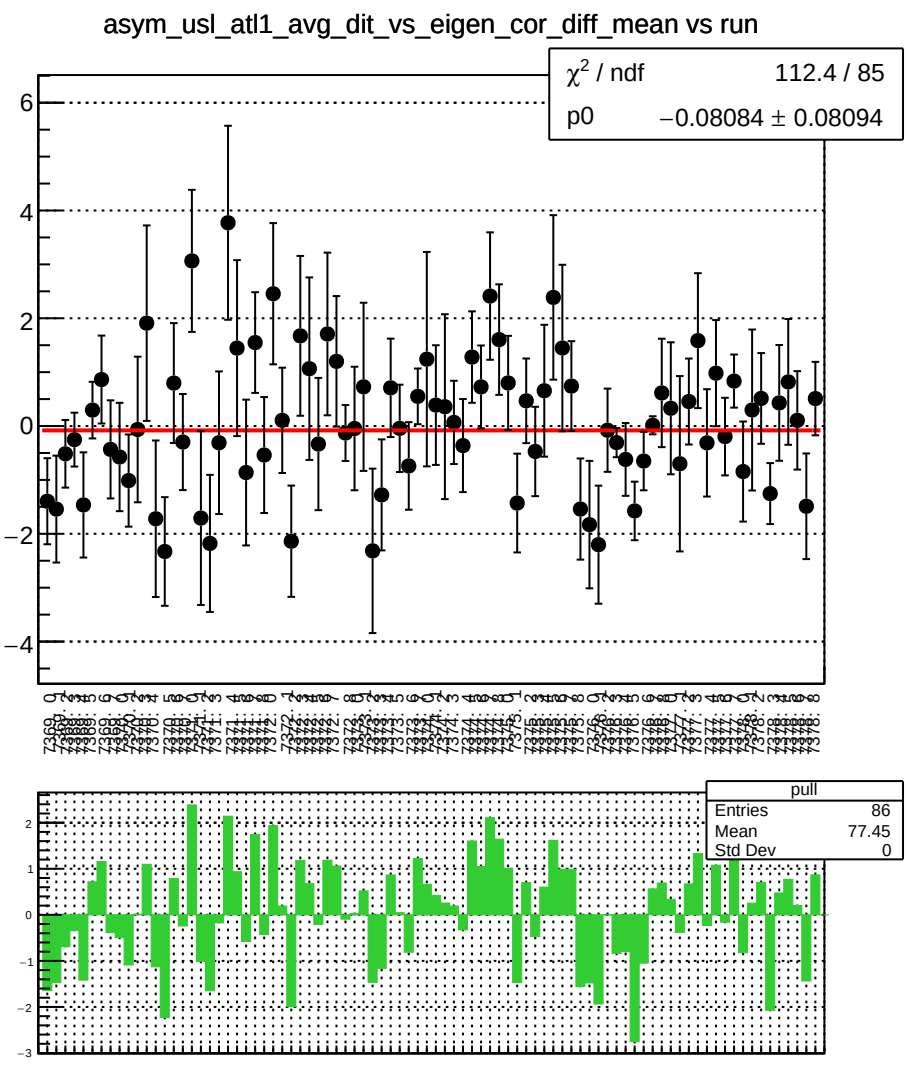

pull1D
Entries 86
Mean 0.00429
Std Dev 0.923
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

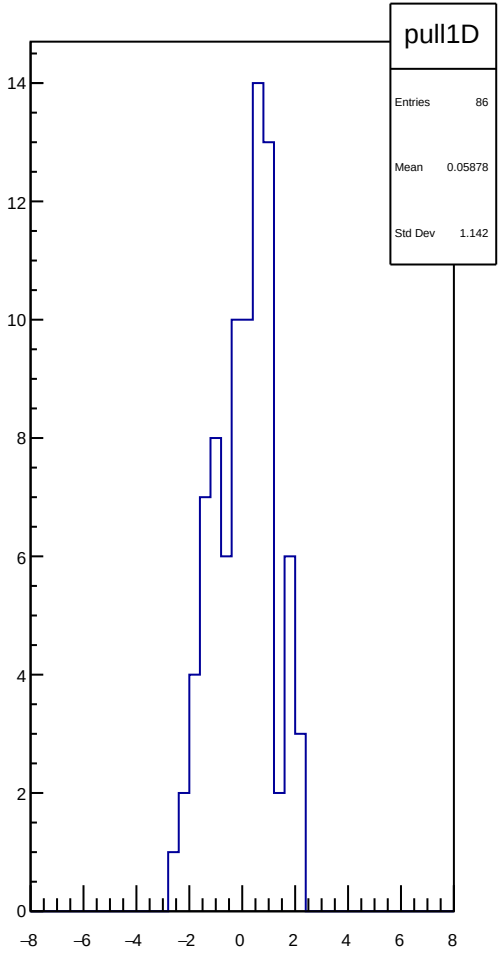

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.435e+06 / 85
p0 9.978e−12 ± 1.999e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

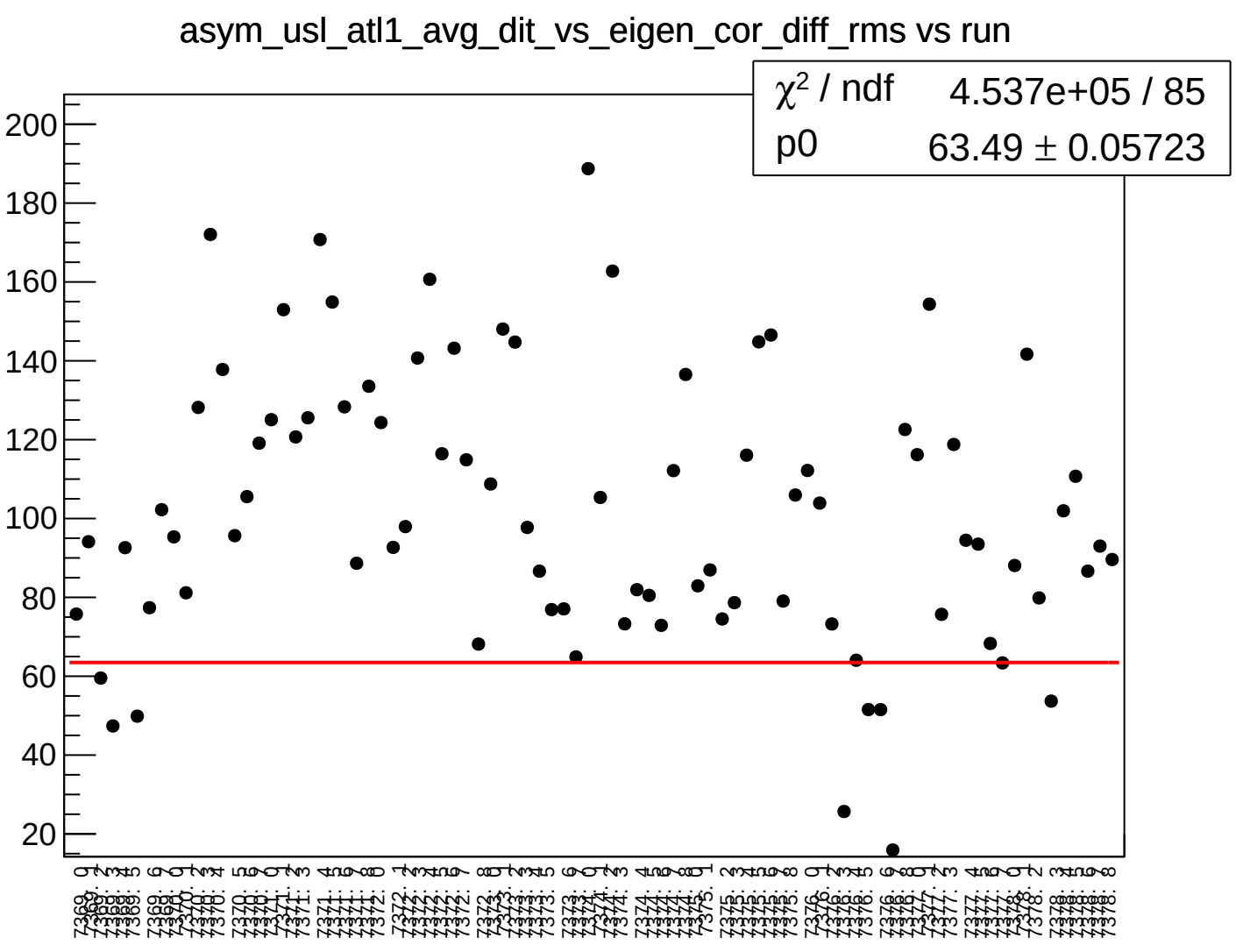

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 85
p0 −0.08084 ± 0.08094
pull
Entries 86
Mean 77.45
Std Dev 0

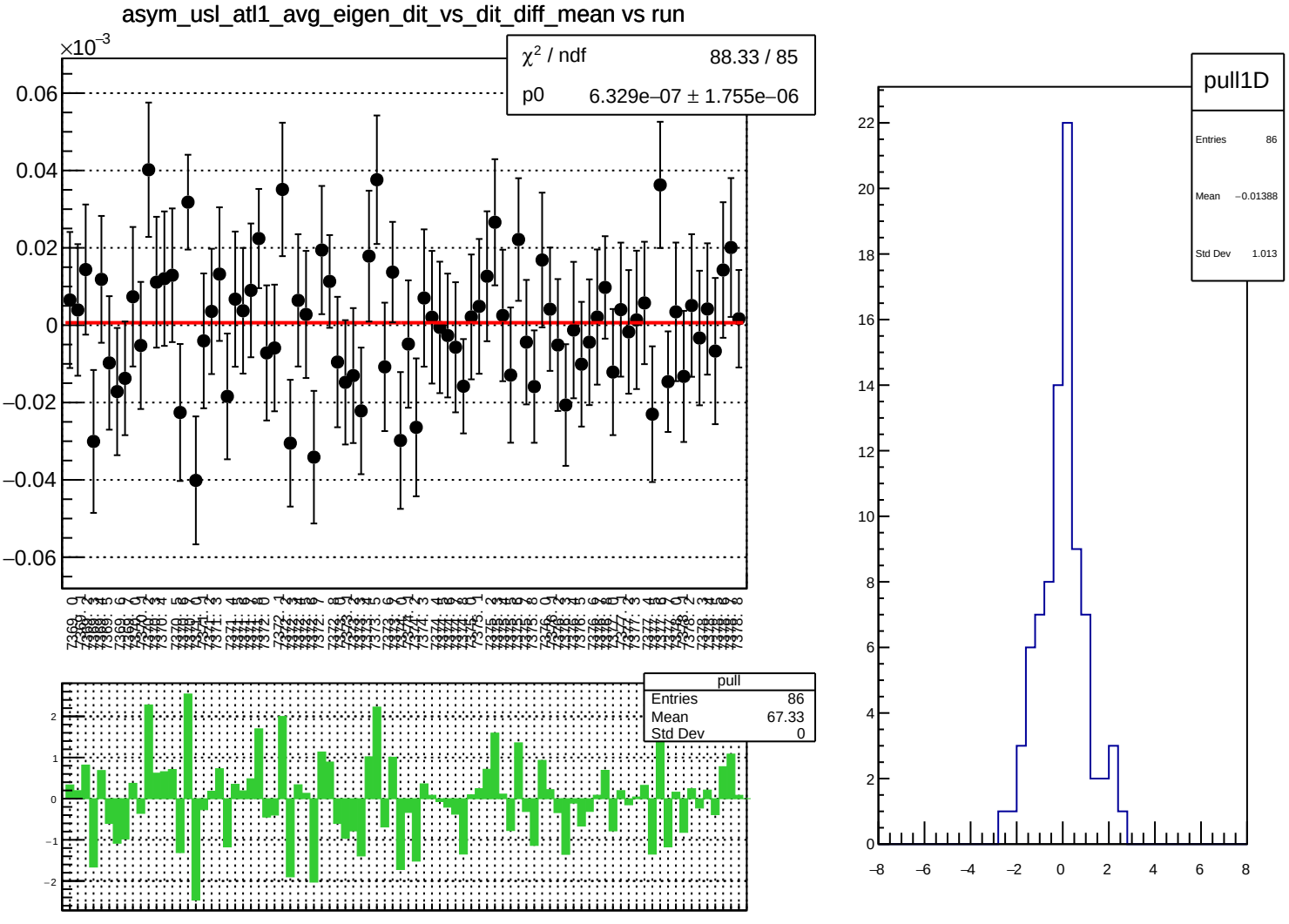

pull1D
Entries 86
Mean 0.05878
Std Dev 1.142

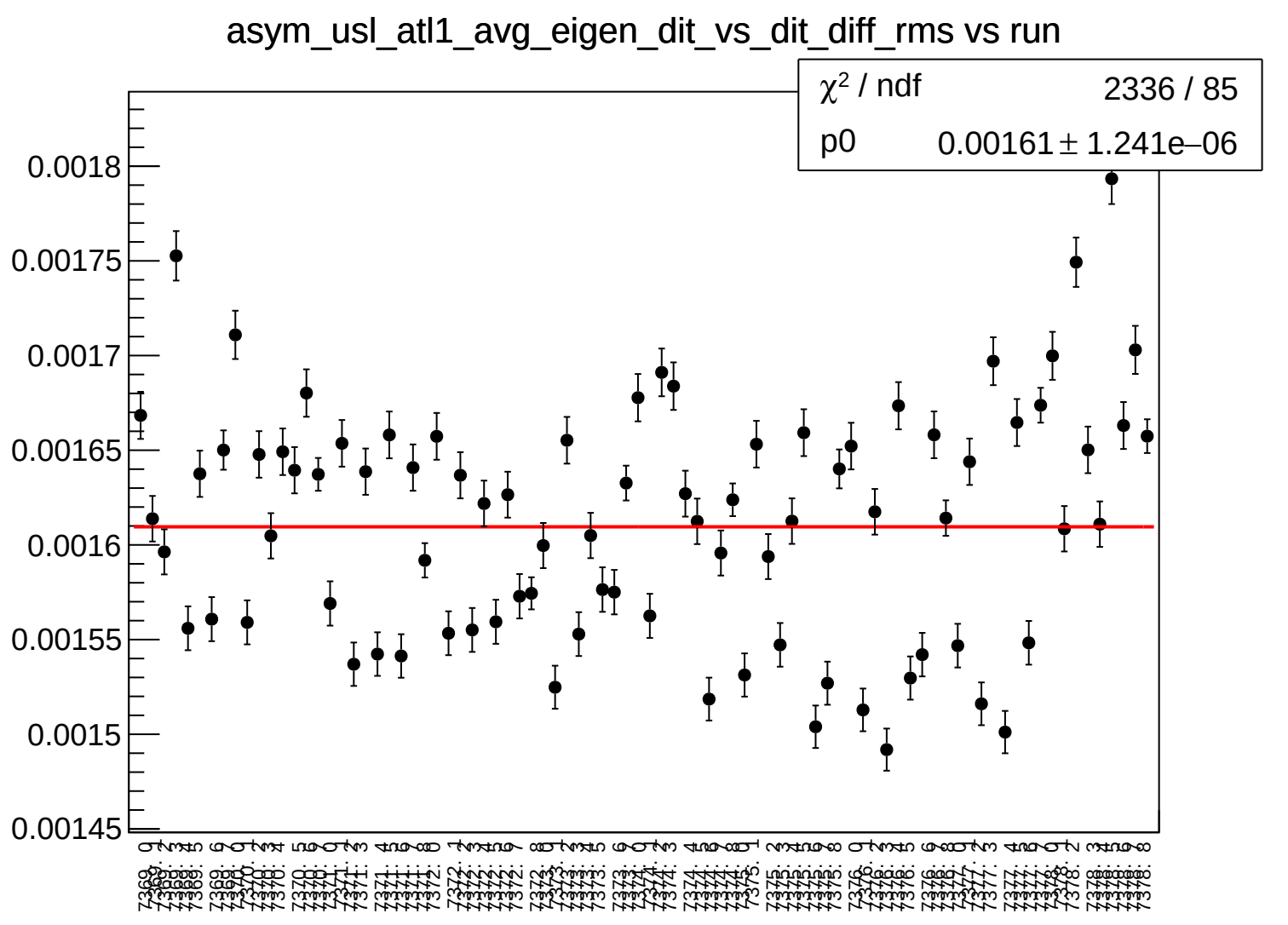

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.537e+05 / 85
p0 63.49 ± 0.05723
200
180
160
140
120
100
80
60
40
20

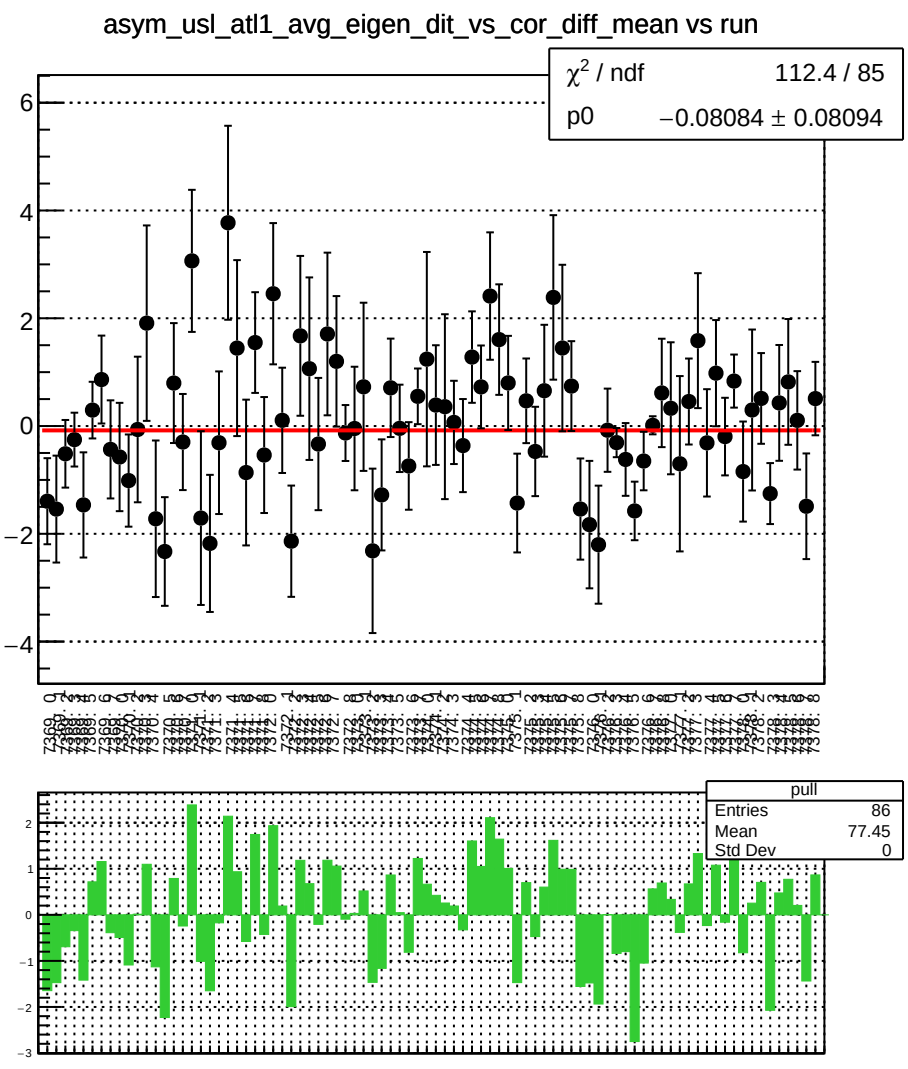

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.4 / 85
p0 −0.08084 ± 0.08094
pull
Entries 86
Mean 77.45
Std Dev 0

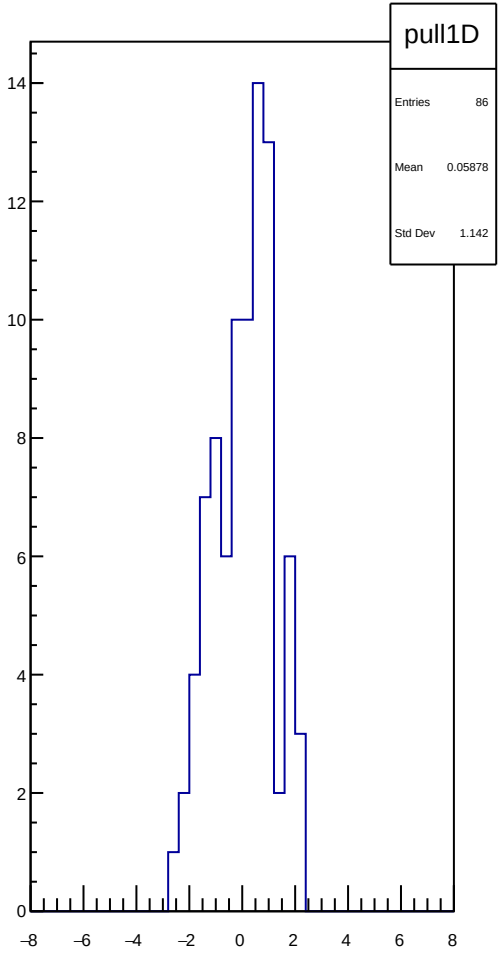

pull1D
Entries 86
Mean 0.05878
Std Dev 1.142

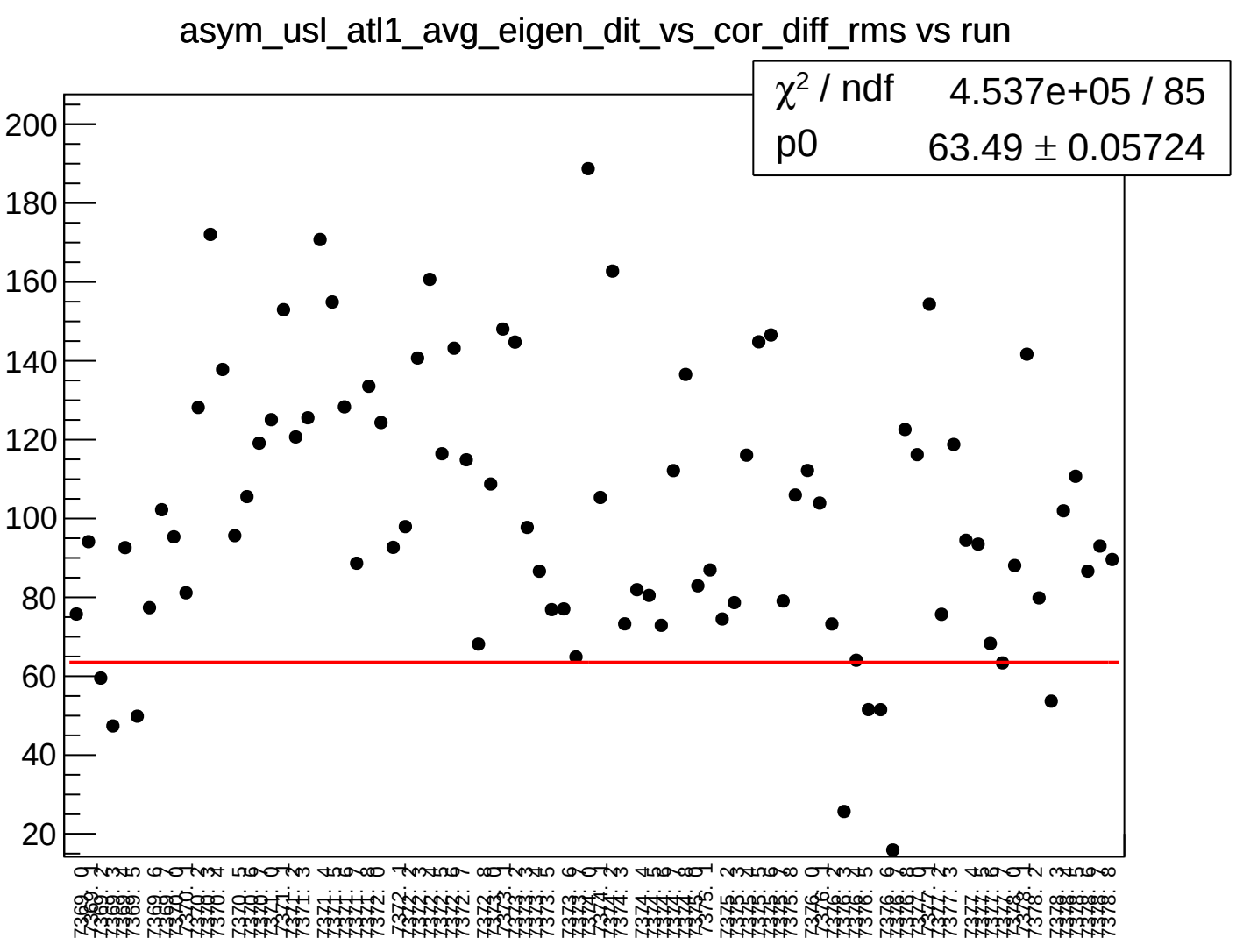

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.537e+05 / 85
p0 63.49 ± 0.05723
200
180
160
140
120
100
80
60
40
20

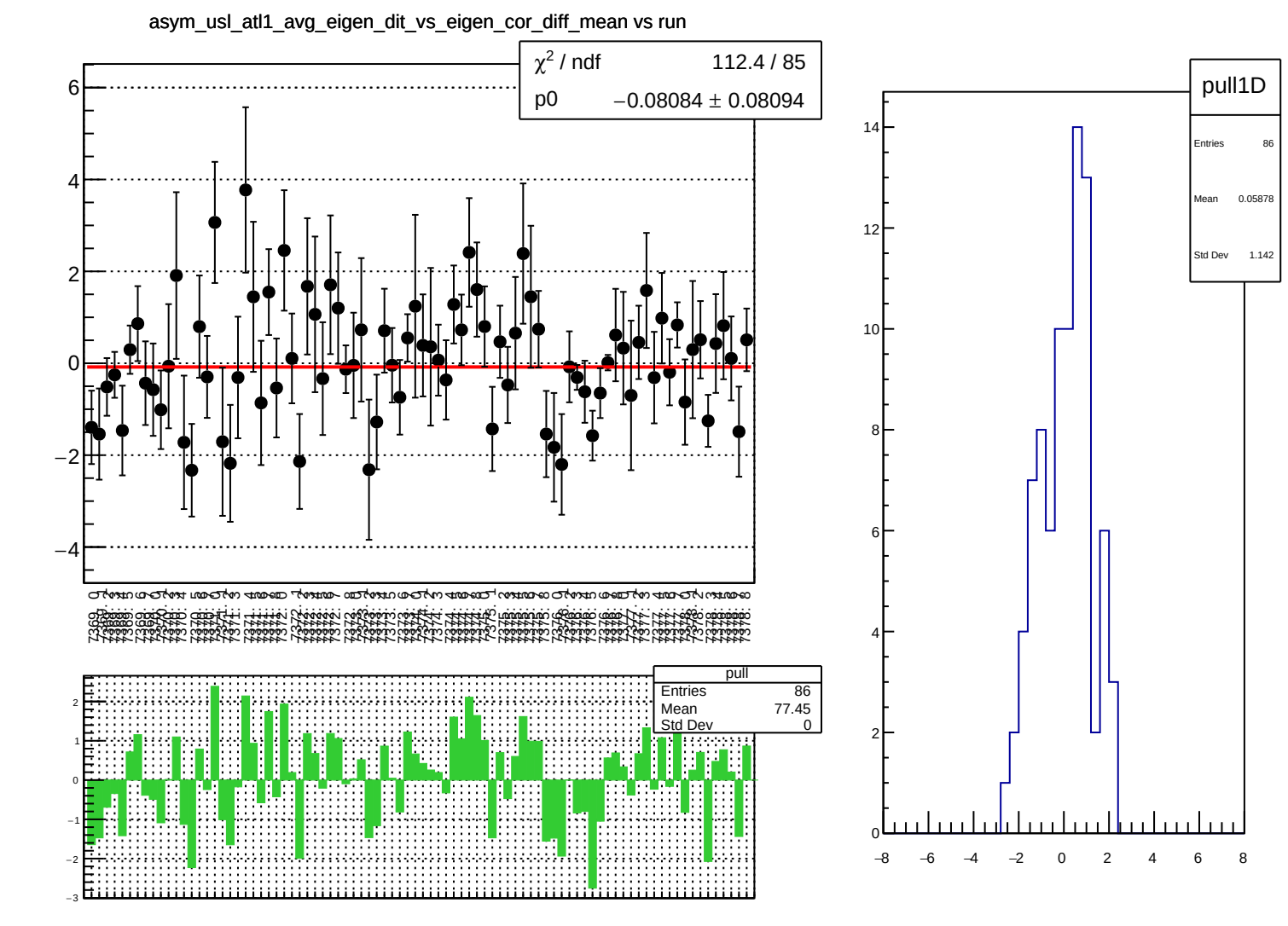

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.33 / 85
p0 6.329e−07 ± 1.755e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 67.33
Std Dev 0
pull1D
Entries 86
Mean −0.01388
Std Dev 1.013

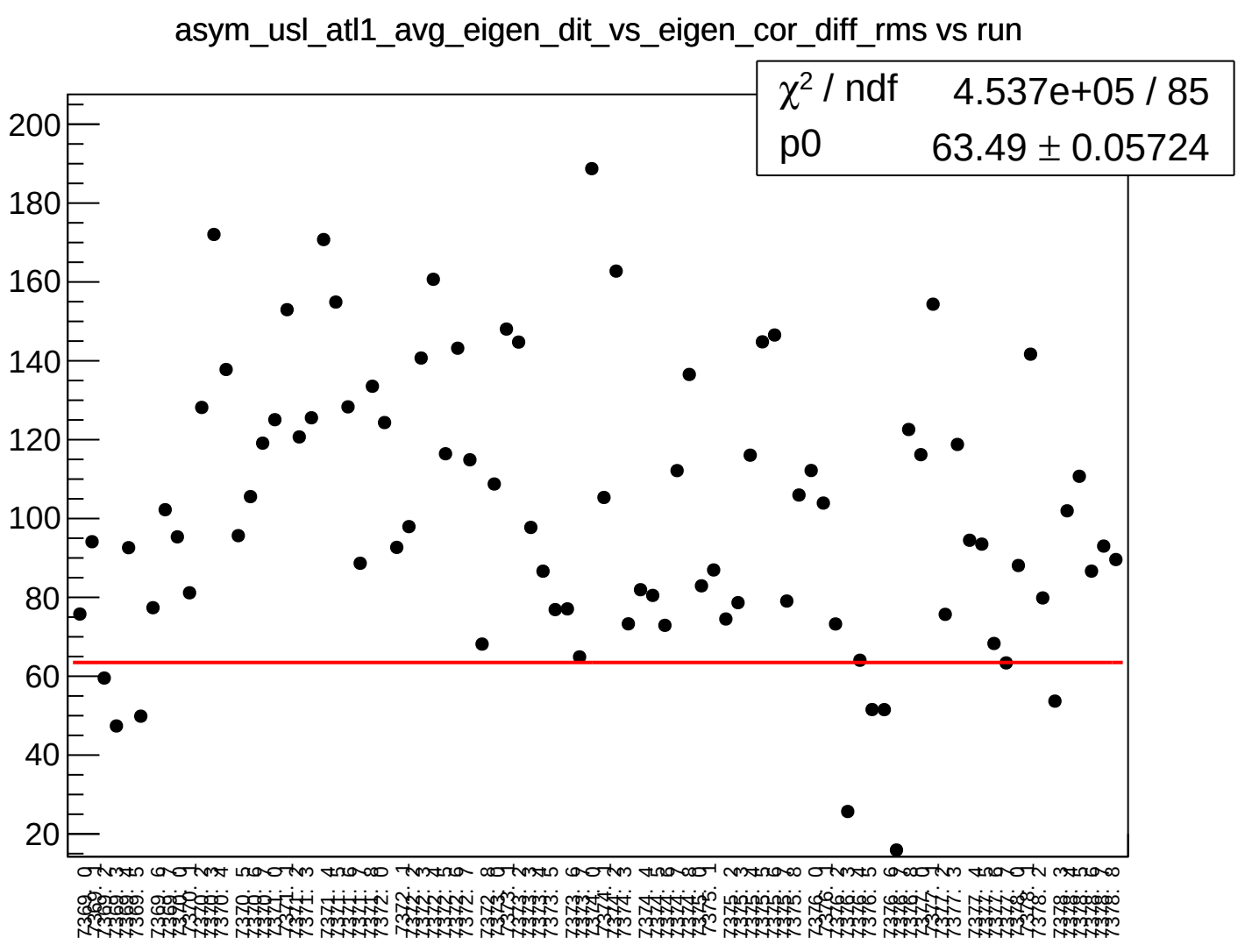

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2336 / 85
p0 0.00161 ± 1.241e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145

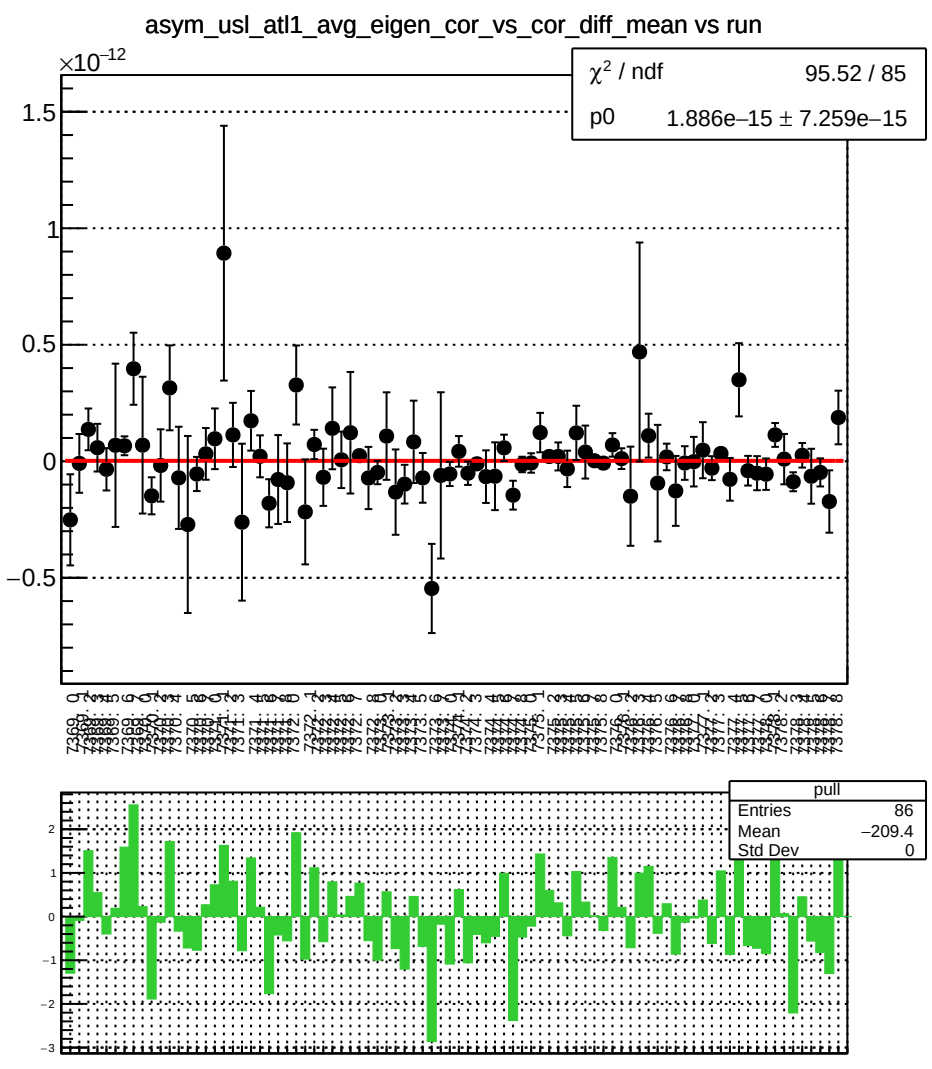

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 85
p0 −0.08084 ± 0.08094
pull
Entries 86
Mean 77.45
Std Dev 0

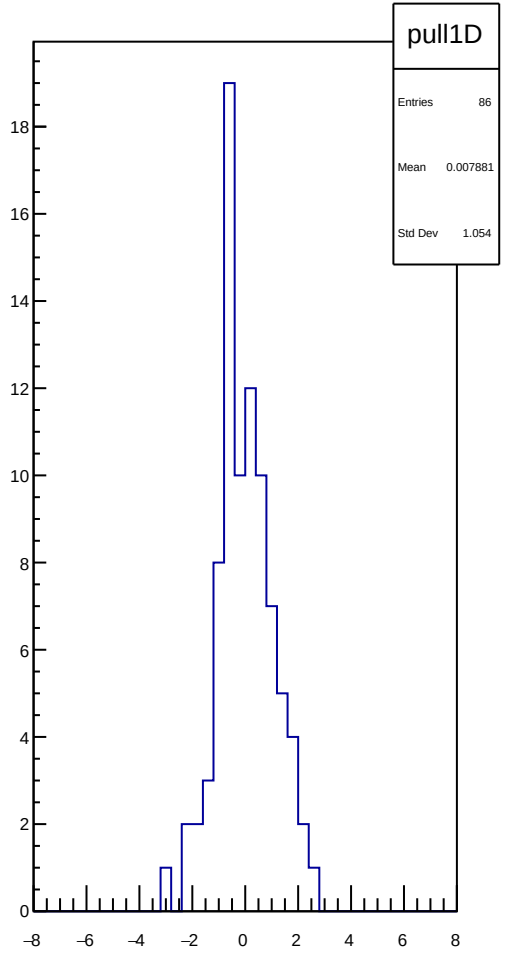

pull1D
Entries 86
Mean 0.05878
Std Dev 1.142

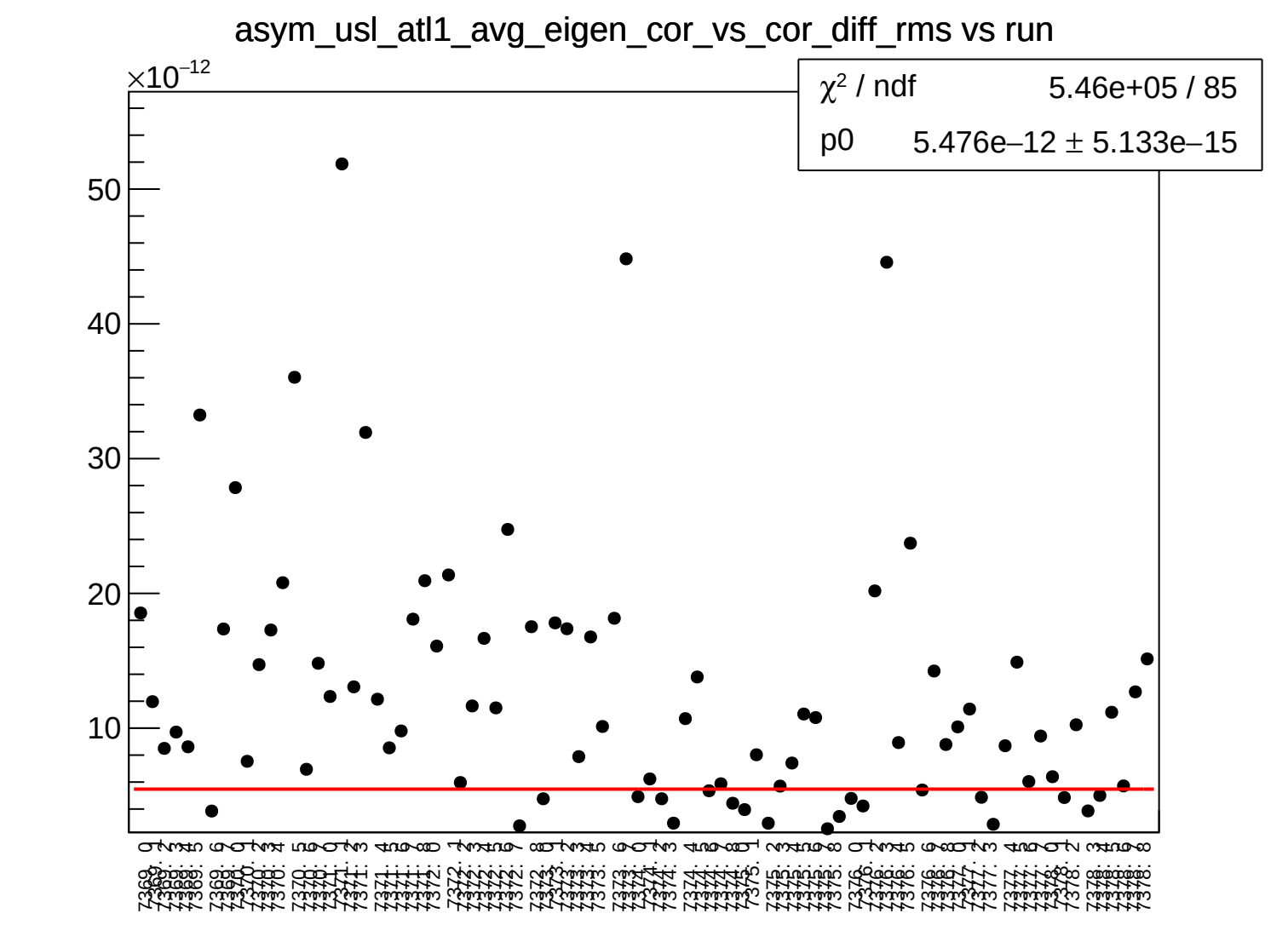

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.537e+05 / 85
p0 63.49 ± 0.05724
200
180
160
140
120
100
80
60
40
20

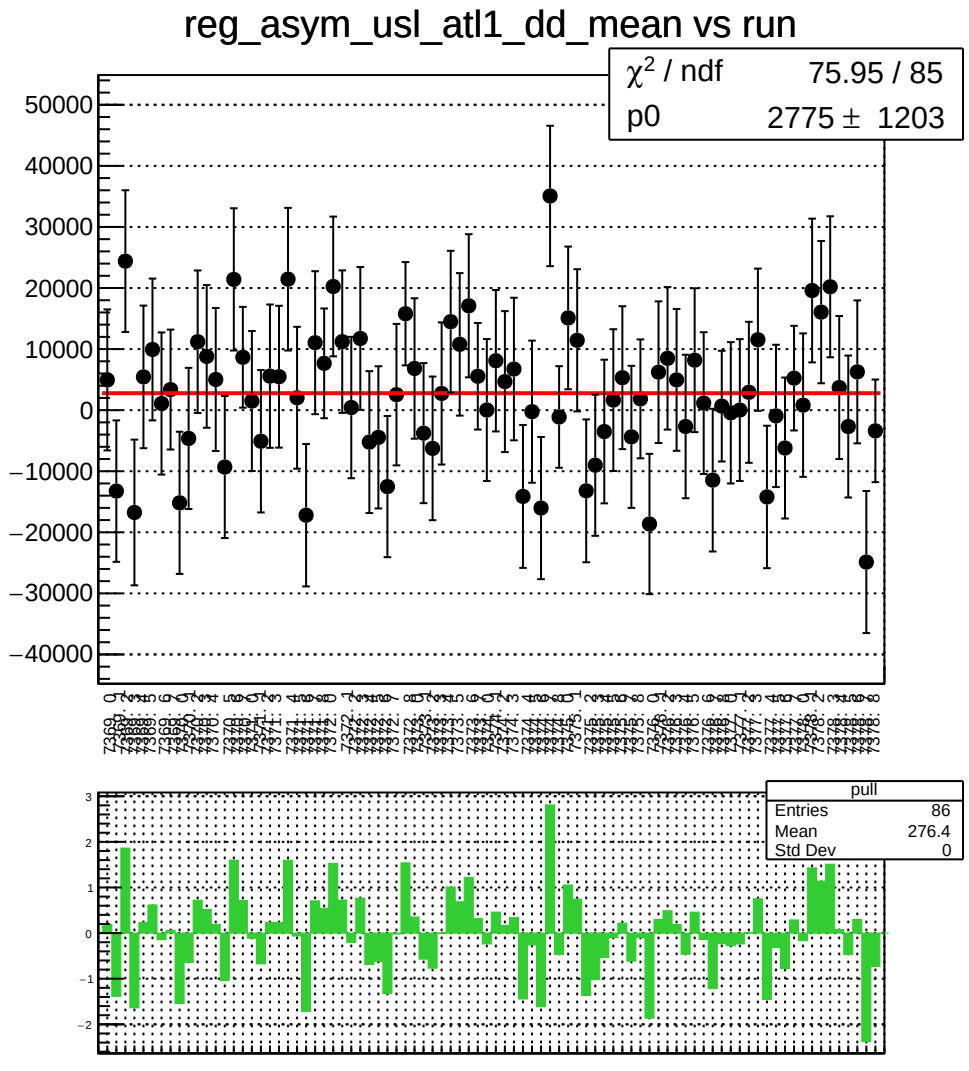

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.4 / 85
p0 −0.08084 ± 0.08094
pull
Entries 86
Mean 77.45
Std Dev 0
pull1D
Entries 86
Mean 0.05878
Std Dev 1.142

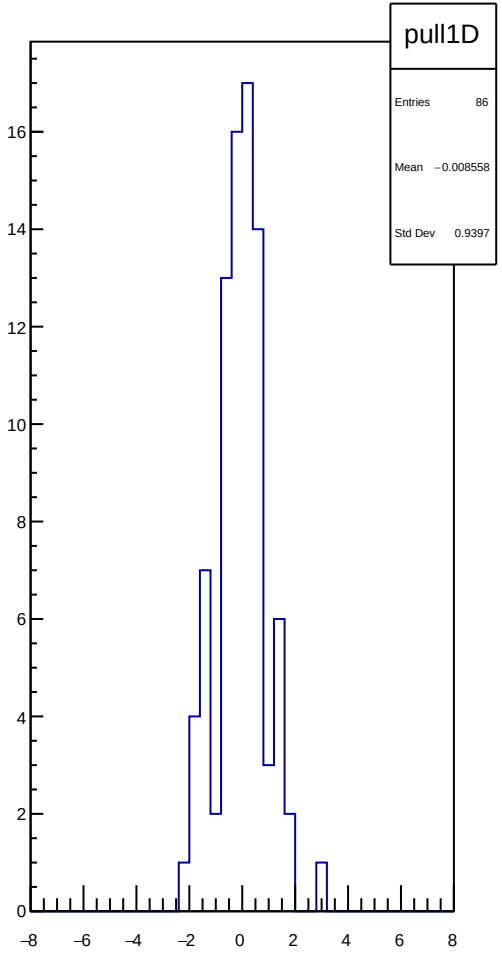

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.537e+05 / 85
p0 63.49 ± 0.05724
200
180
160
140
120
100
80
60
40
20

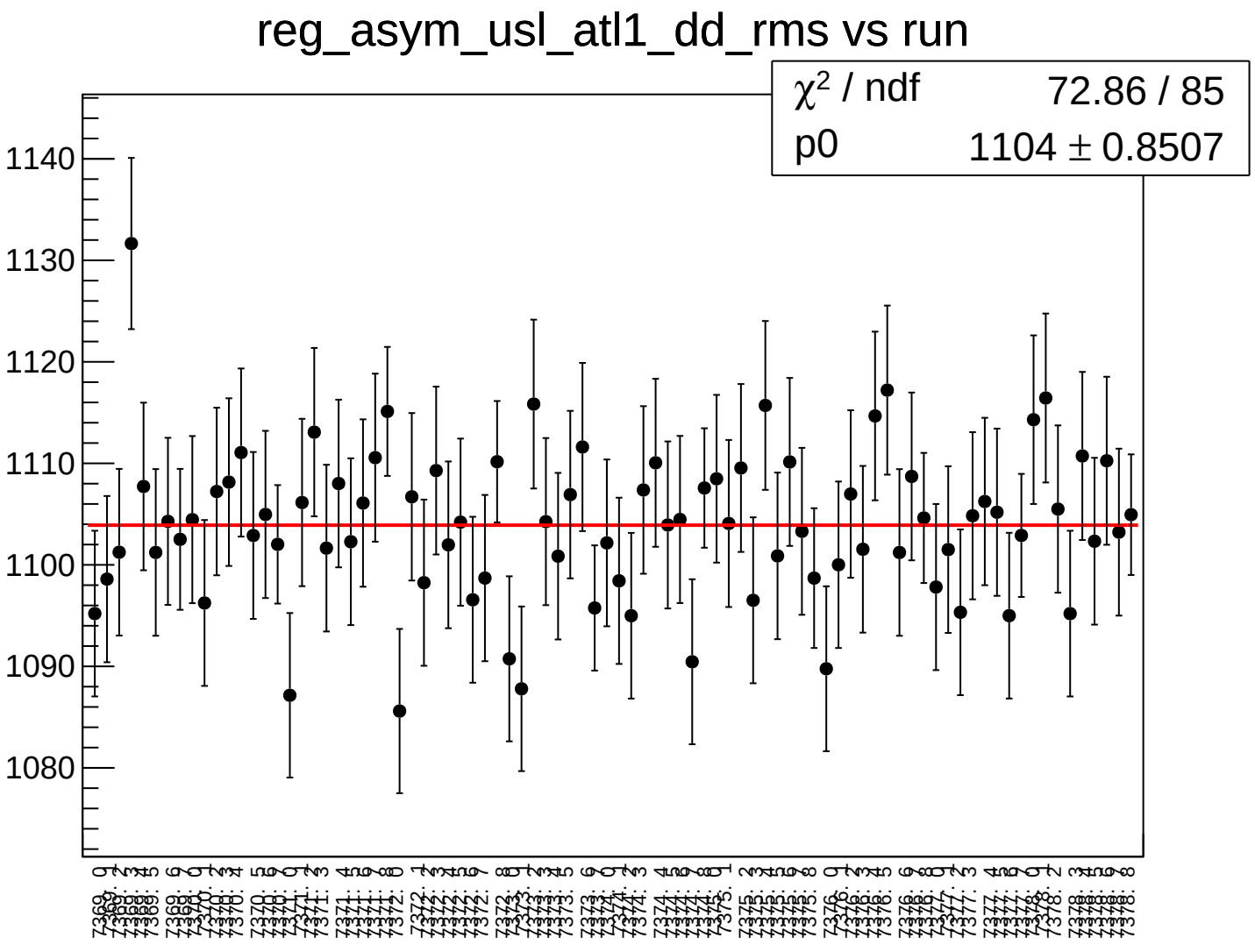

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.52 / 85
p0 1.886e−15 ± 7.259e−15
1.5
1
0.5
0
−0.5
pull
Entries 86
Mean −209.4
Std Dev 0
2
1
0
−1
−2
−3

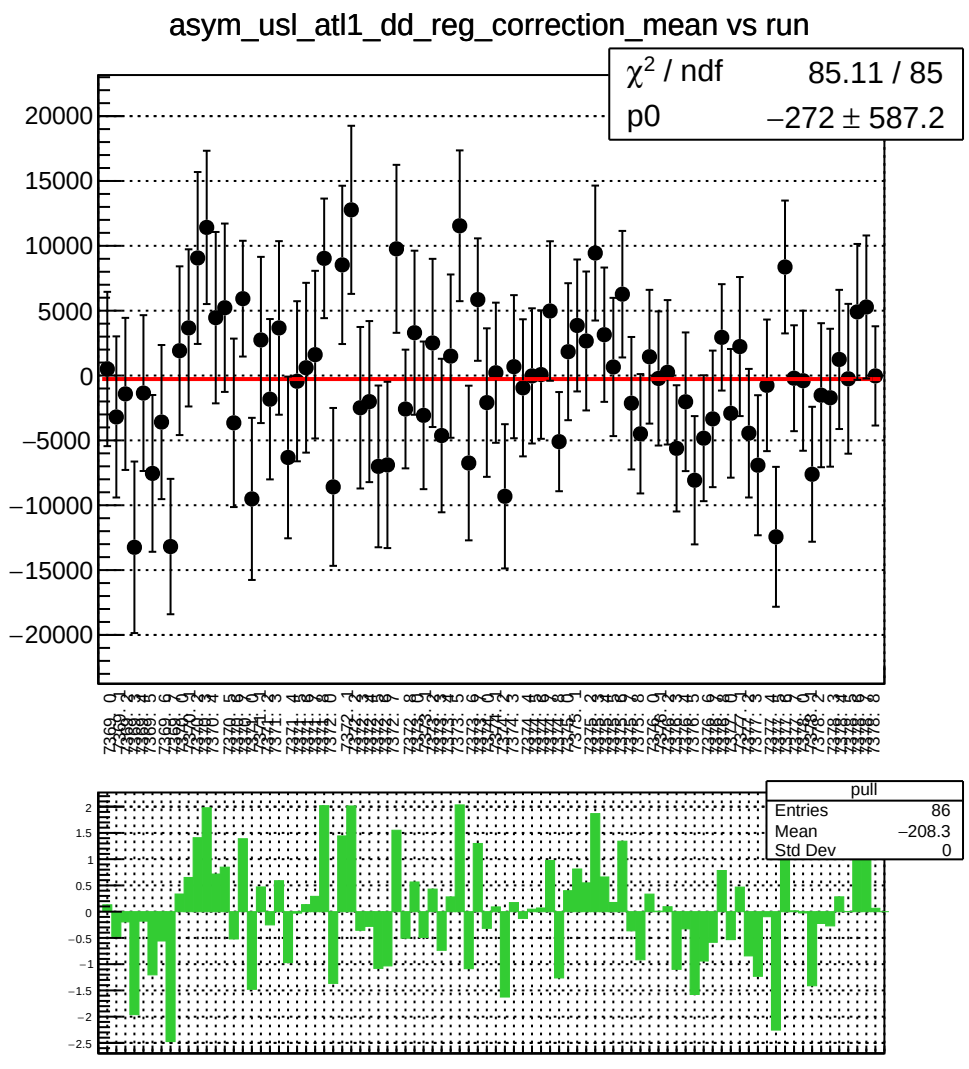

pull1D
Entries 86
Mean 0.007881
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

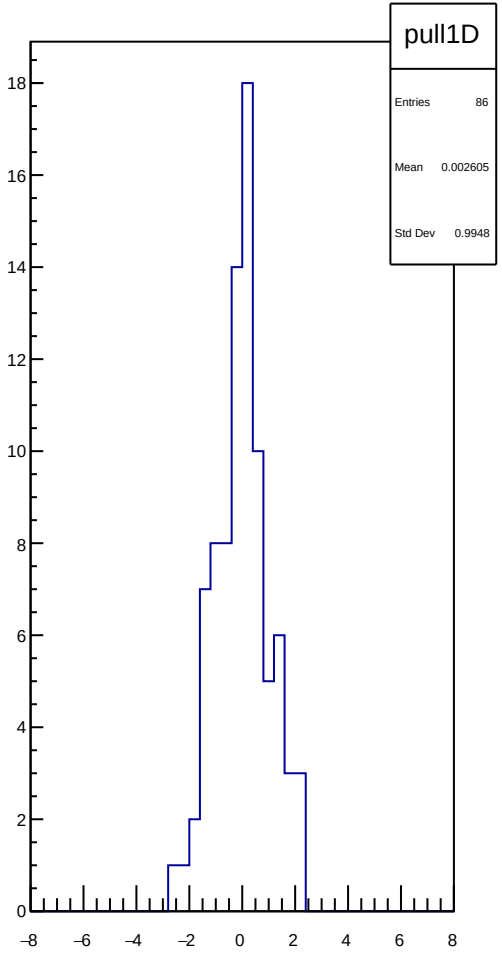

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.46e+05 / 85
p0 5.476e−12 ± 5.133e−15
50
40
30
20
10

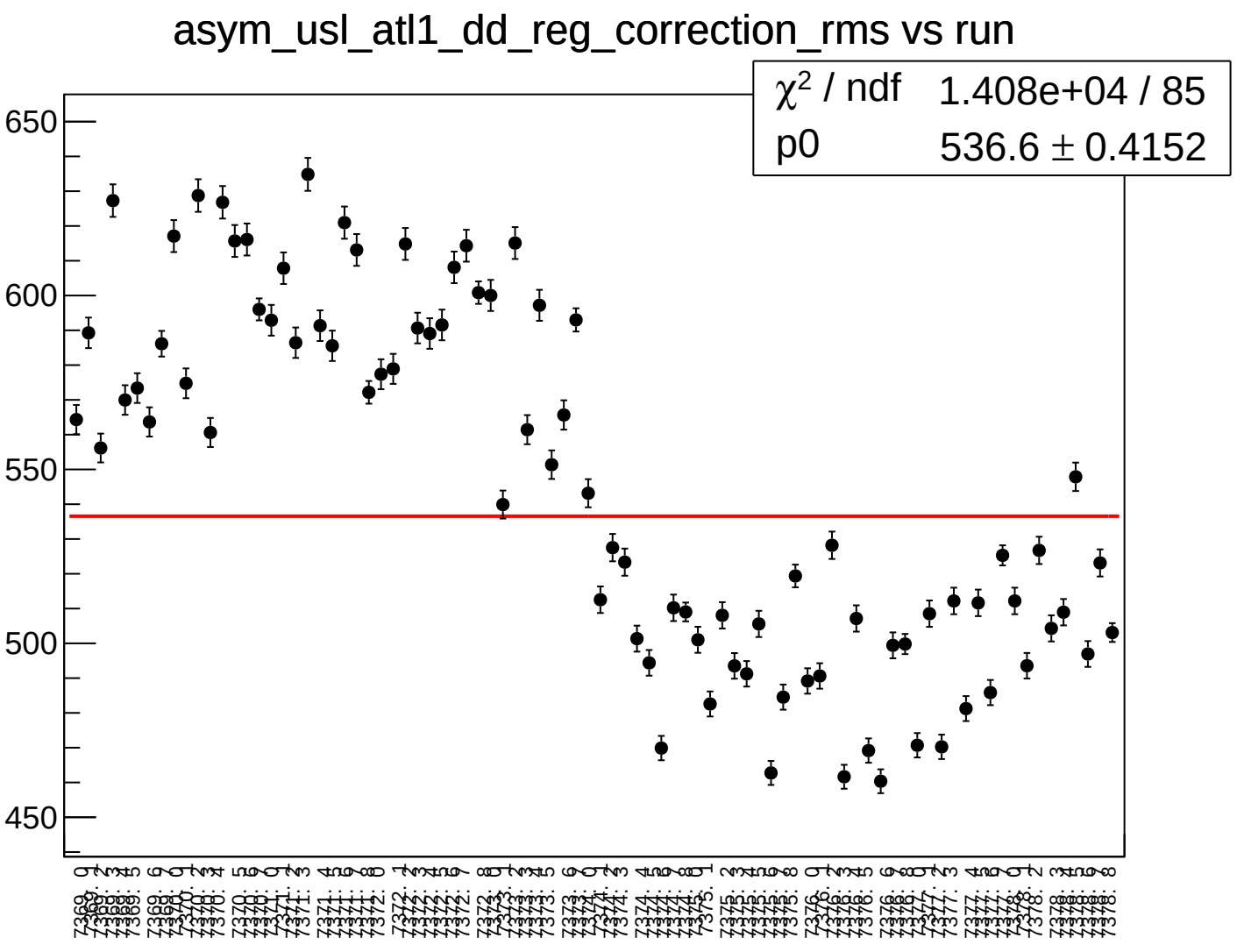

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 75.95 / 85
p0 2775 ± 1203
pull
Entries 86
Mean 276.4
Std Dev 0

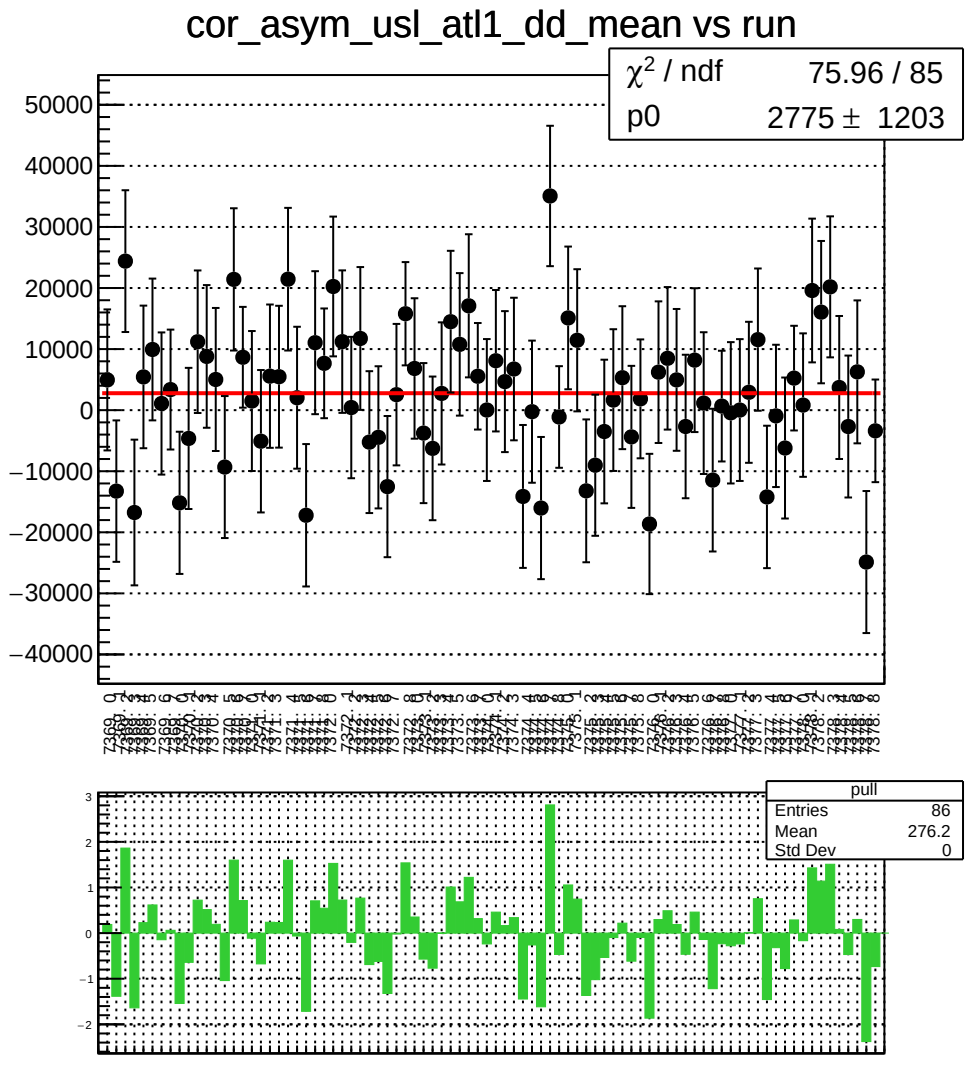

pull1D
Entries 86
Mean −0.008558
Std Dev 0.9397

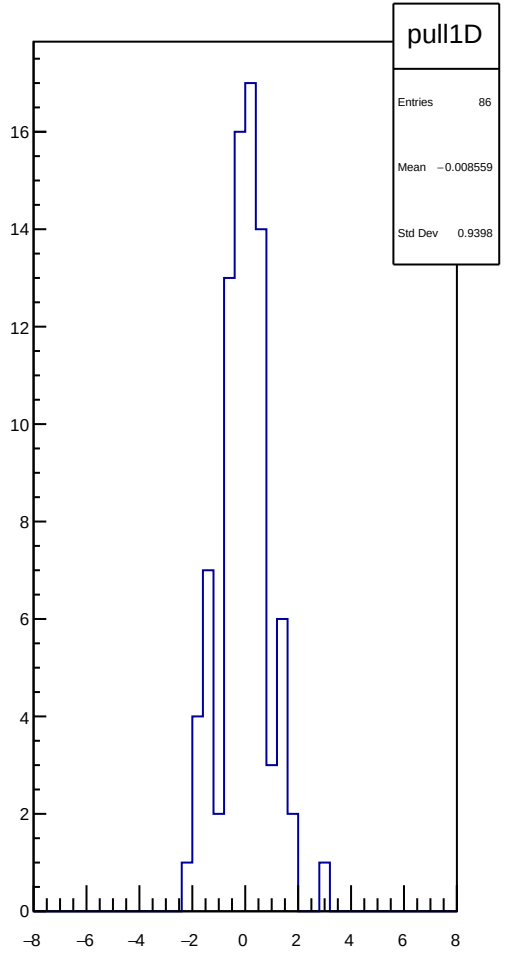

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 72.86 / 85
p0 1104 ± 0.8507
1140
1130
1120
1110
1100
1090
1080

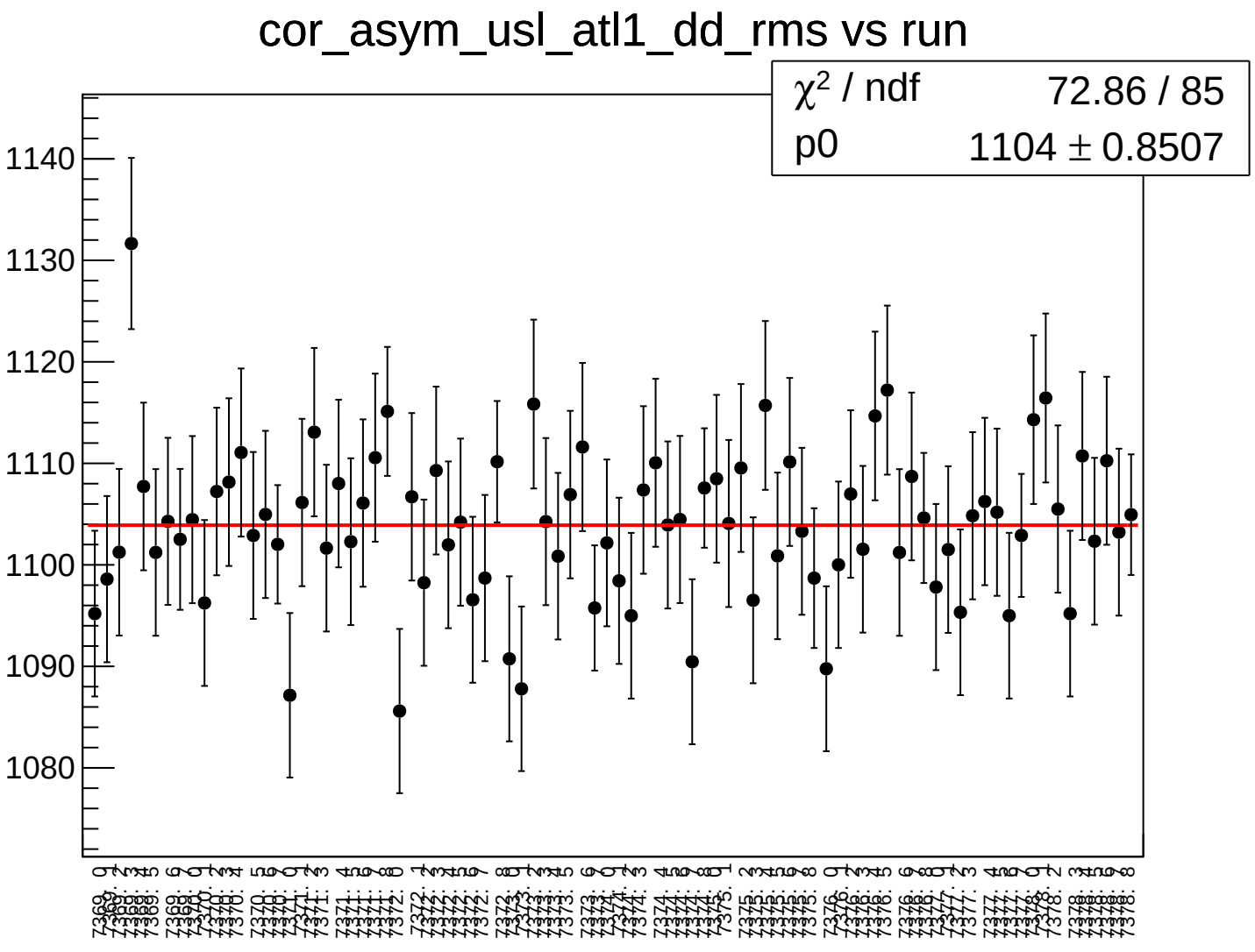

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 85.11 / 85
p0 −272 ± 587.2
pull
Entries 86
Mean −208.3
Std Dev 0

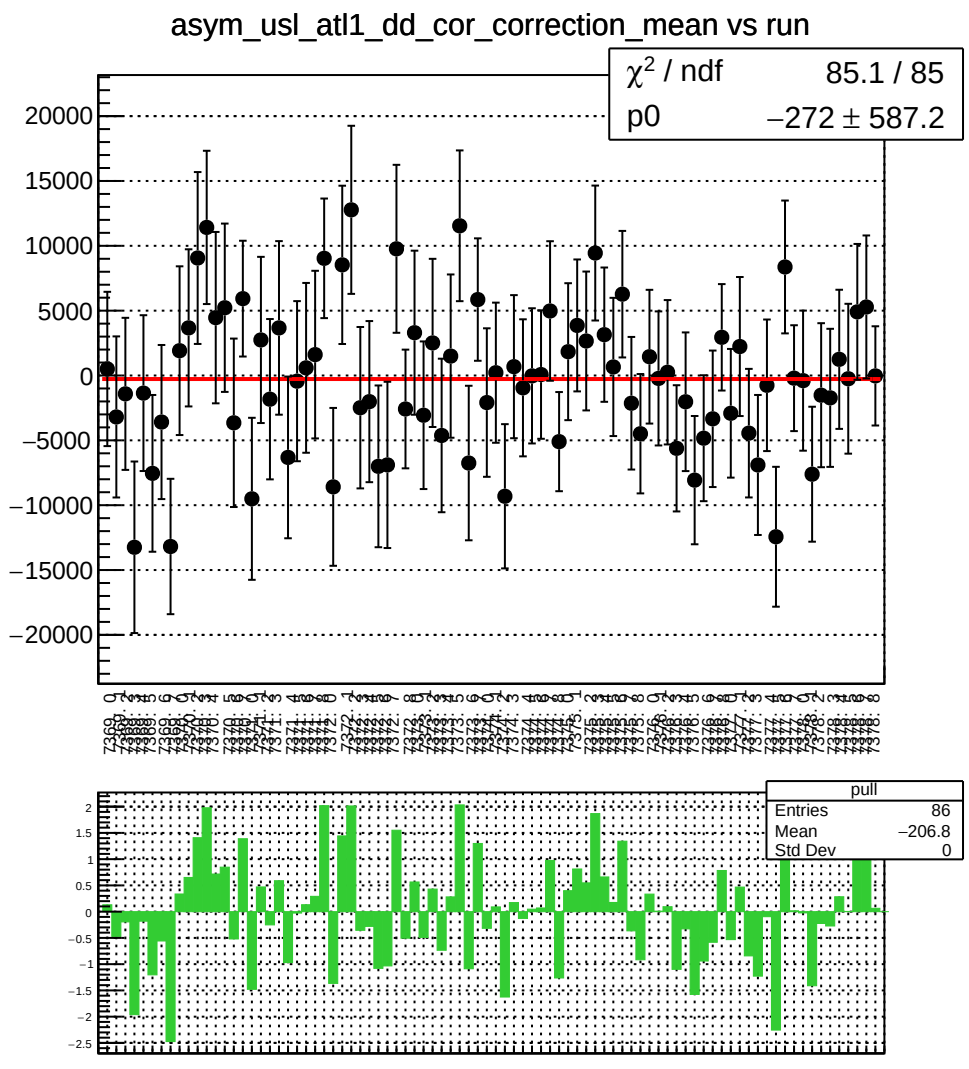

pull1D
Entries 86
Mean 0.002605
Std Dev 0.9948

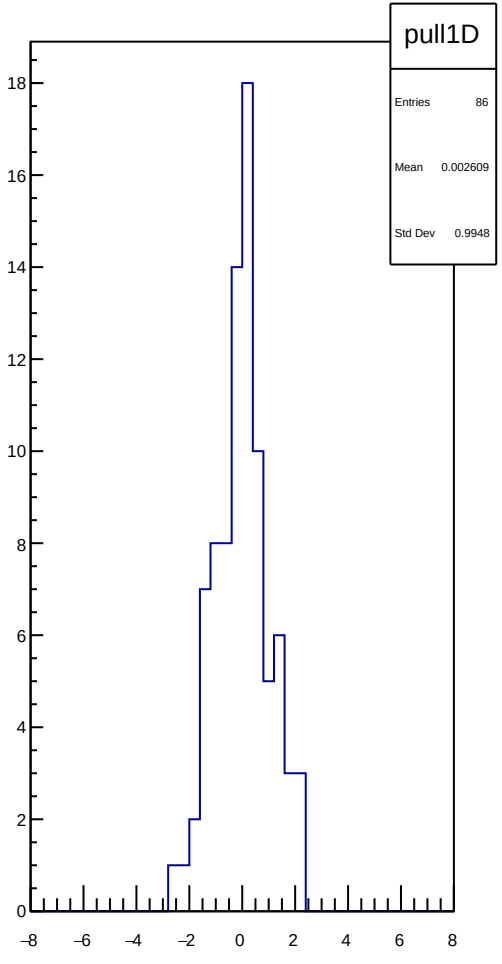

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.408e+04 / 85
p0 536.6 ± 0.4152
650
600
550
500
450

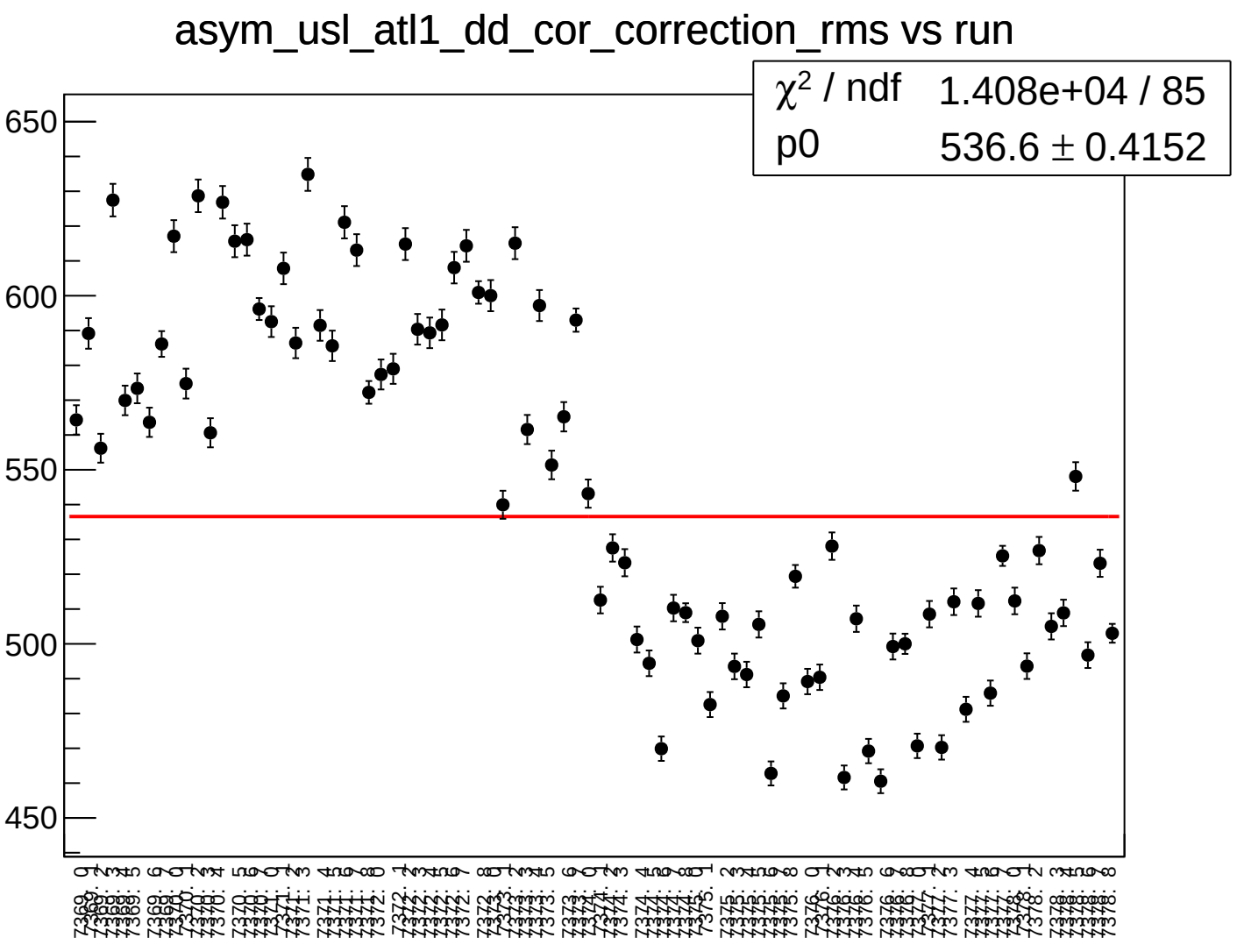

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 75.96 / 85
p0 2775 ± 1203
pull
Entries 86
Mean 276.2
Std Dev 0

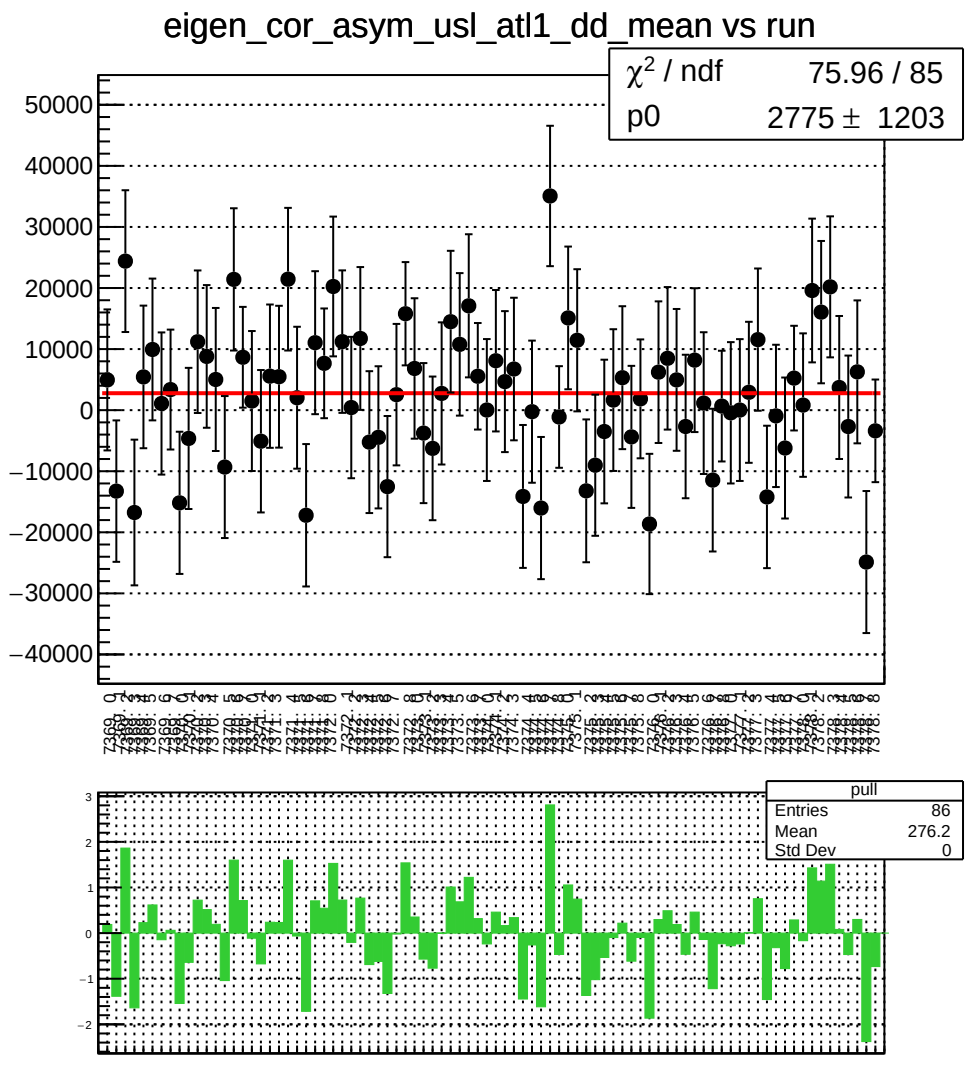

pull1D
Entries 86
Mean −0.008559
Std Dev 0.9398

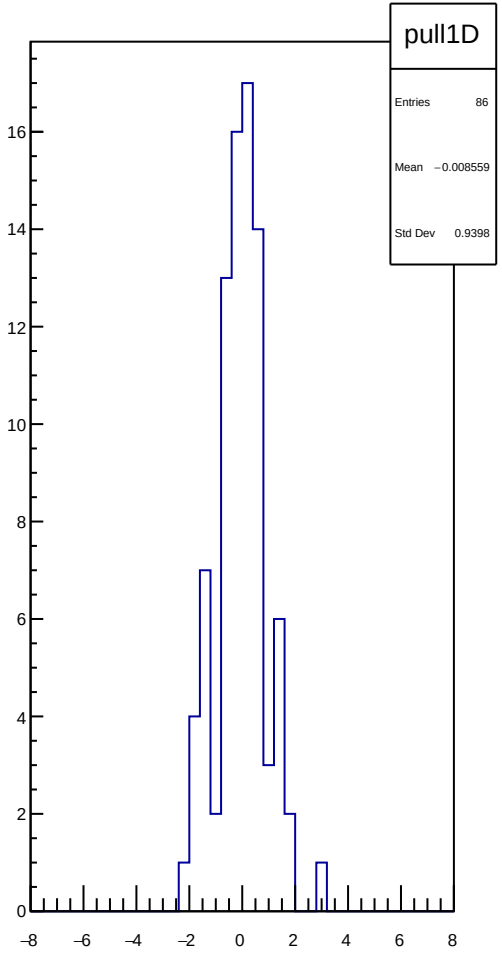

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 72.86 / 85
p0 1104 ± 0.8507
1140
1130
1120
1110
1100
1090
1080

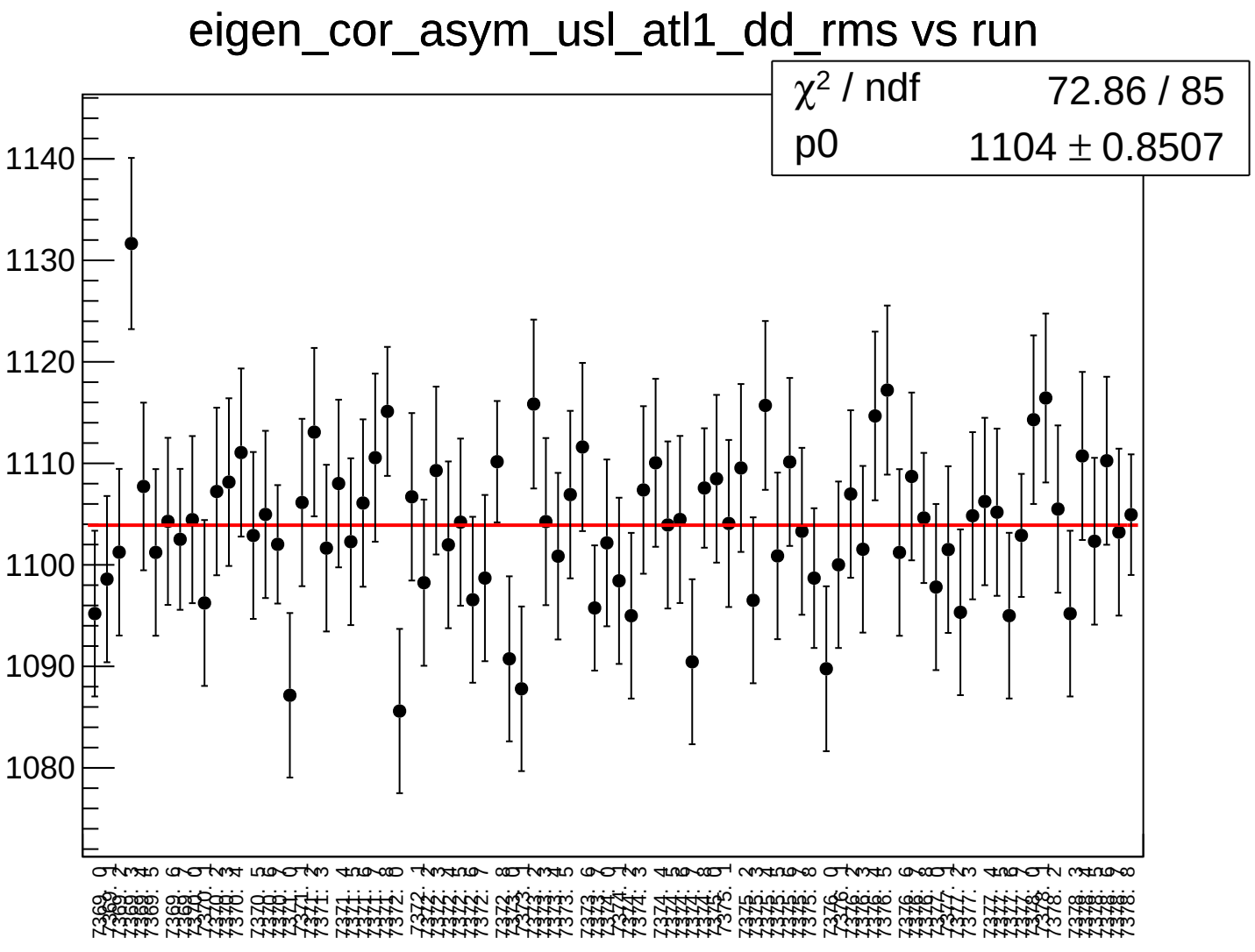

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 85.1 / 85
p0 −272 ± 587.2
pull
Entries 86
Mean −206.8
Std Dev 0

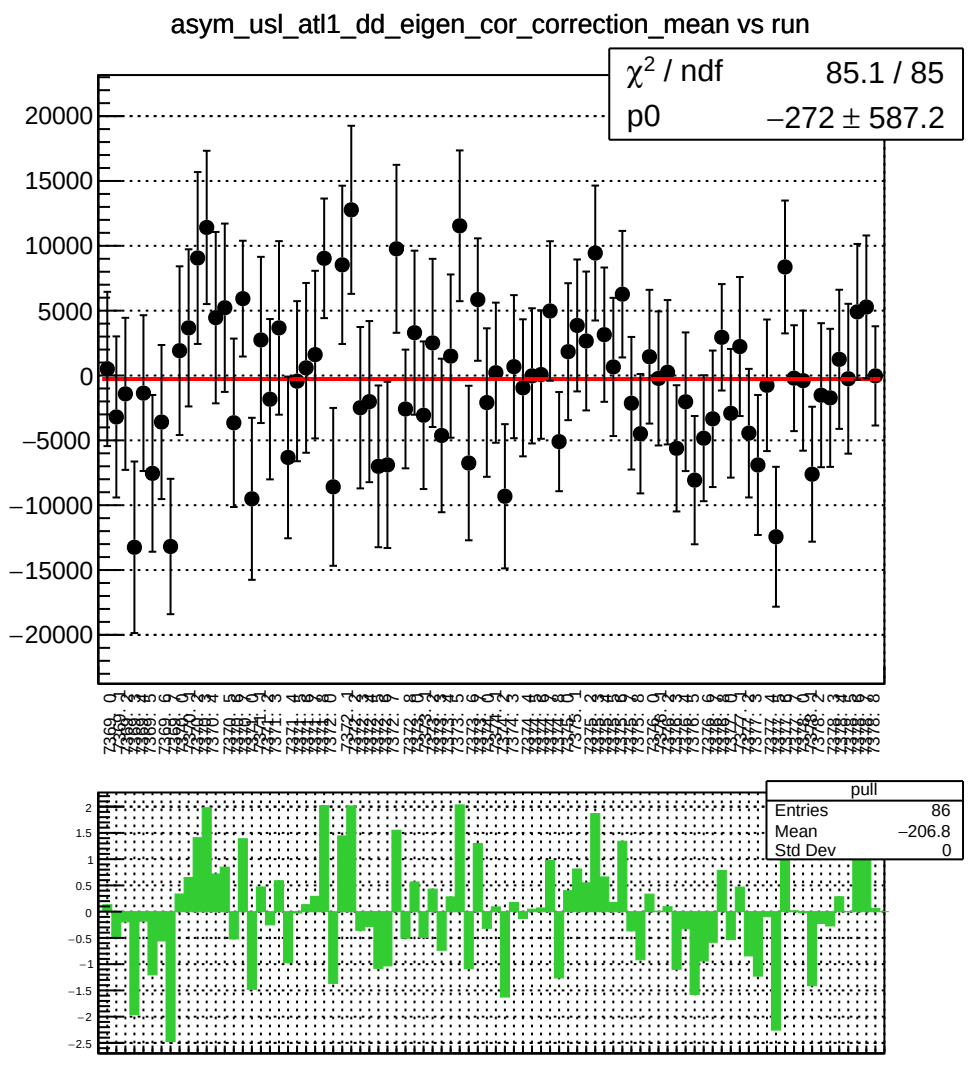

pull1D
Entries 86
Mean 0.002609
Std Dev 0.9948

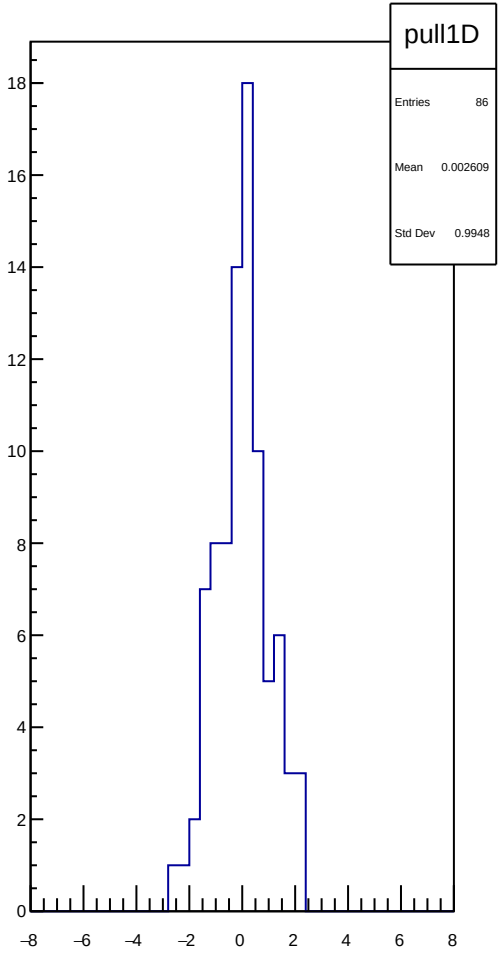

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.408e+04 / 85
p0 536.6 ± 0.4152
650
600
550
500
450

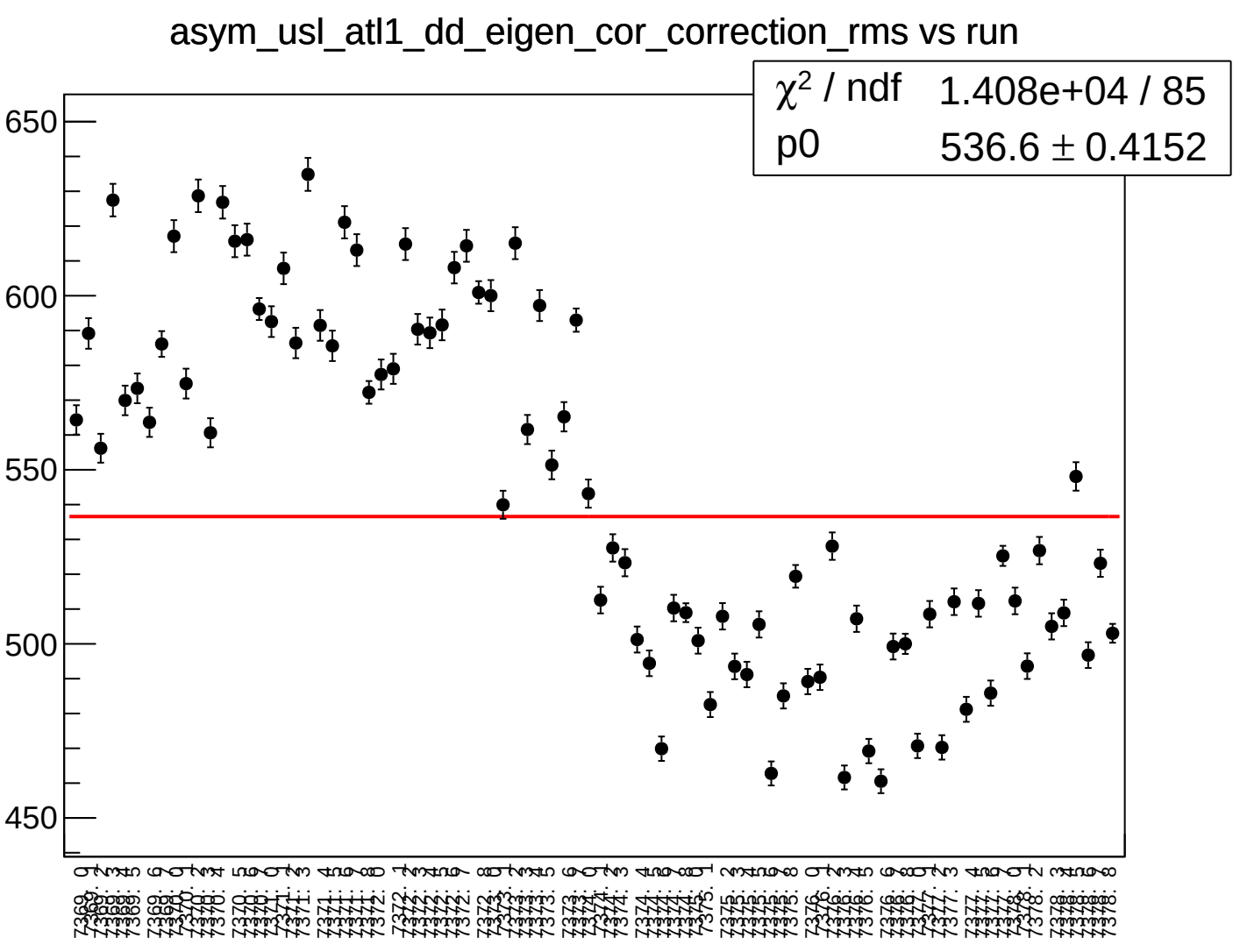

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 75.96 / 85
p0 2775 ± 1203
pull
Entries 86
Mean 276.2
Std Dev 0

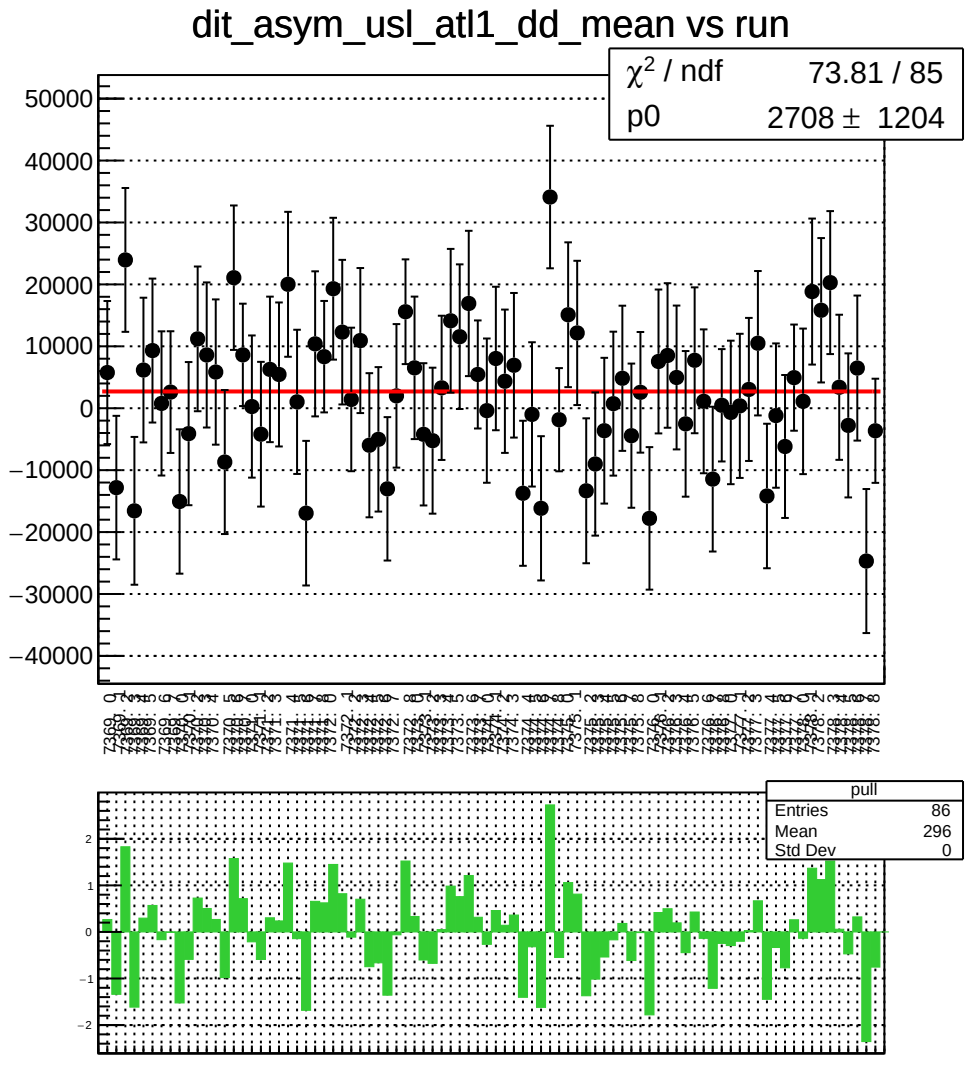

pull1D
Entries 86
Mean −0.008559
Std Dev 0.9398

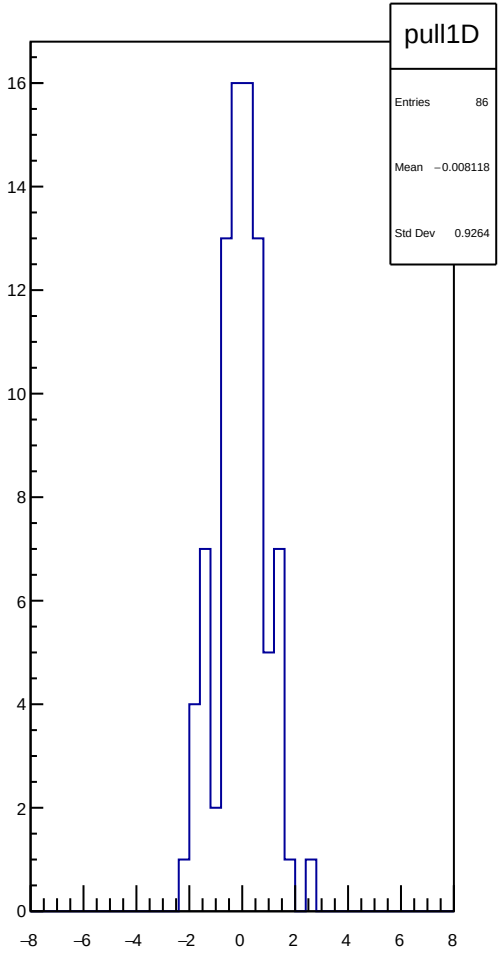

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 72.86 / 85
p0 1104 ± 0.8507
1140
1130
1120
1110
1100
1090
1080

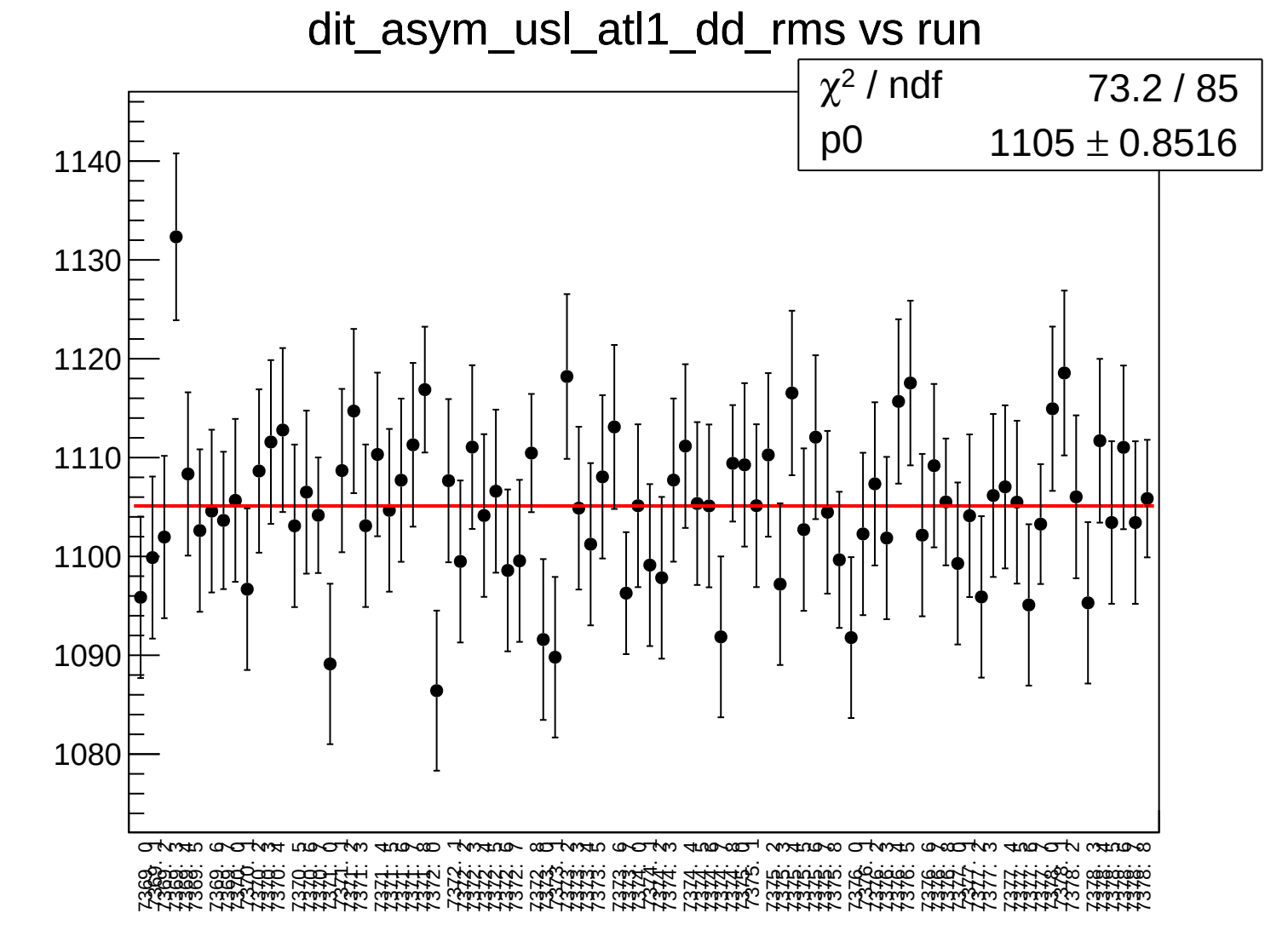

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.1 / 85
p0 −272 ± 587.2
pull
Entries 86
Mean −206.8
Std Dev 0

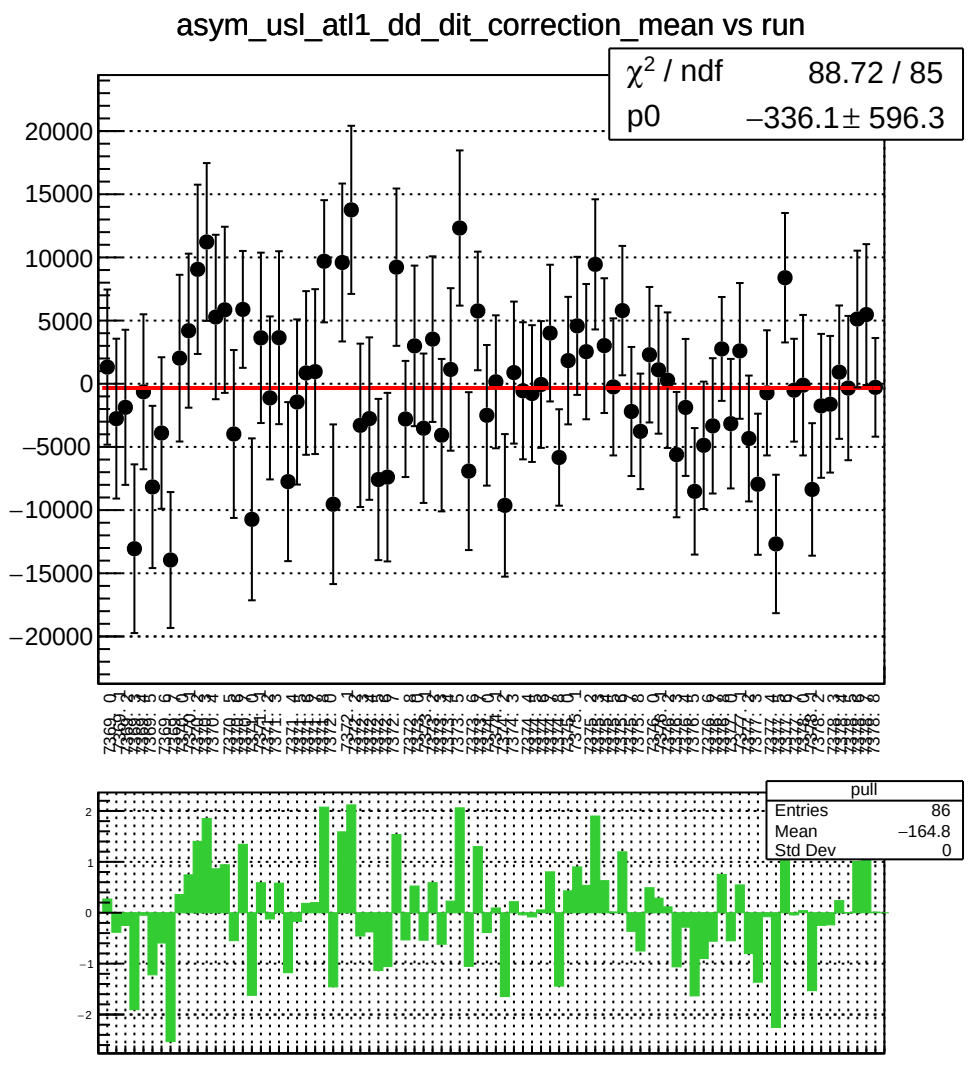

pull1D
Entries 86
Mean 0.002609
Std Dev 0.9948

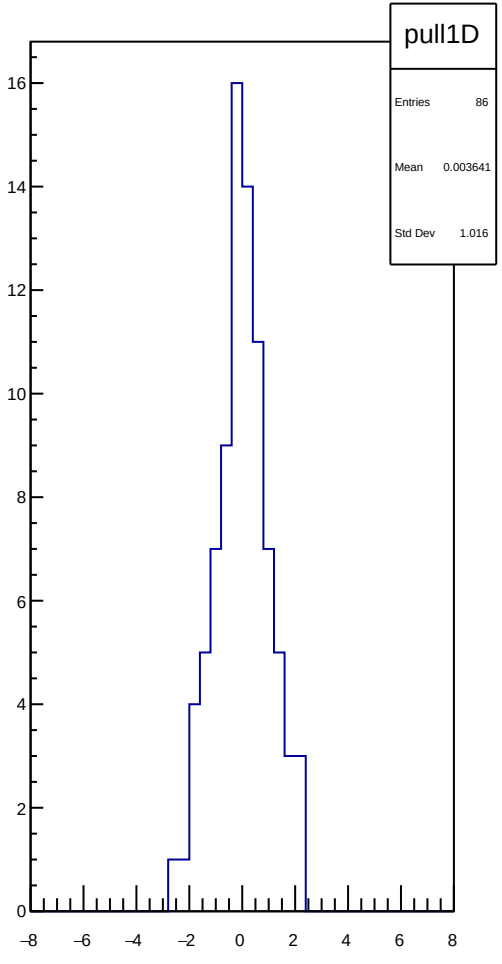

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.408e+04 / 85
p0 536.6 ± 0.4152
650
600
550
500
450

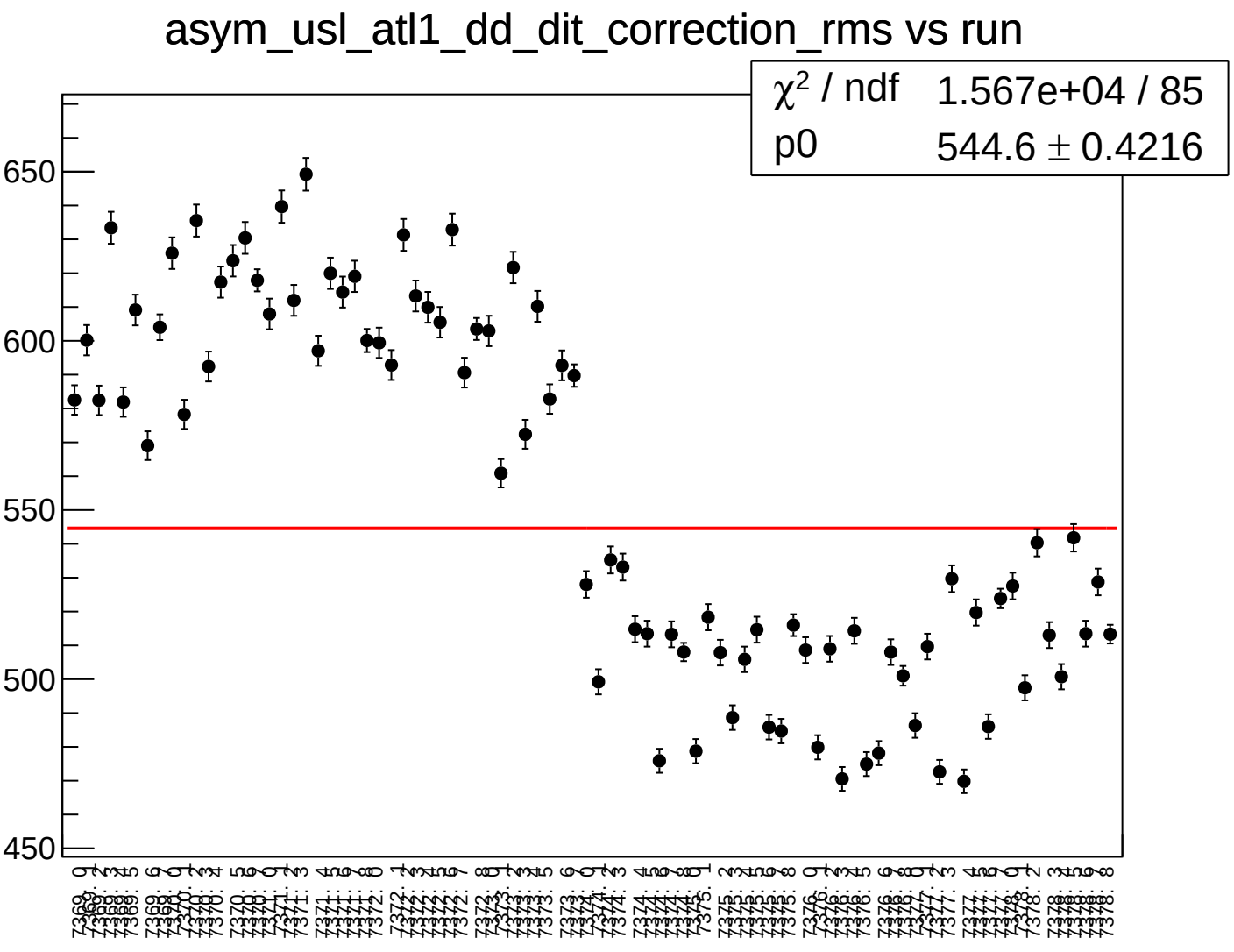

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 73.81 / 85
p0 2708 ± 1204
pull
Entries 86
Mean 296
Std Dev 0

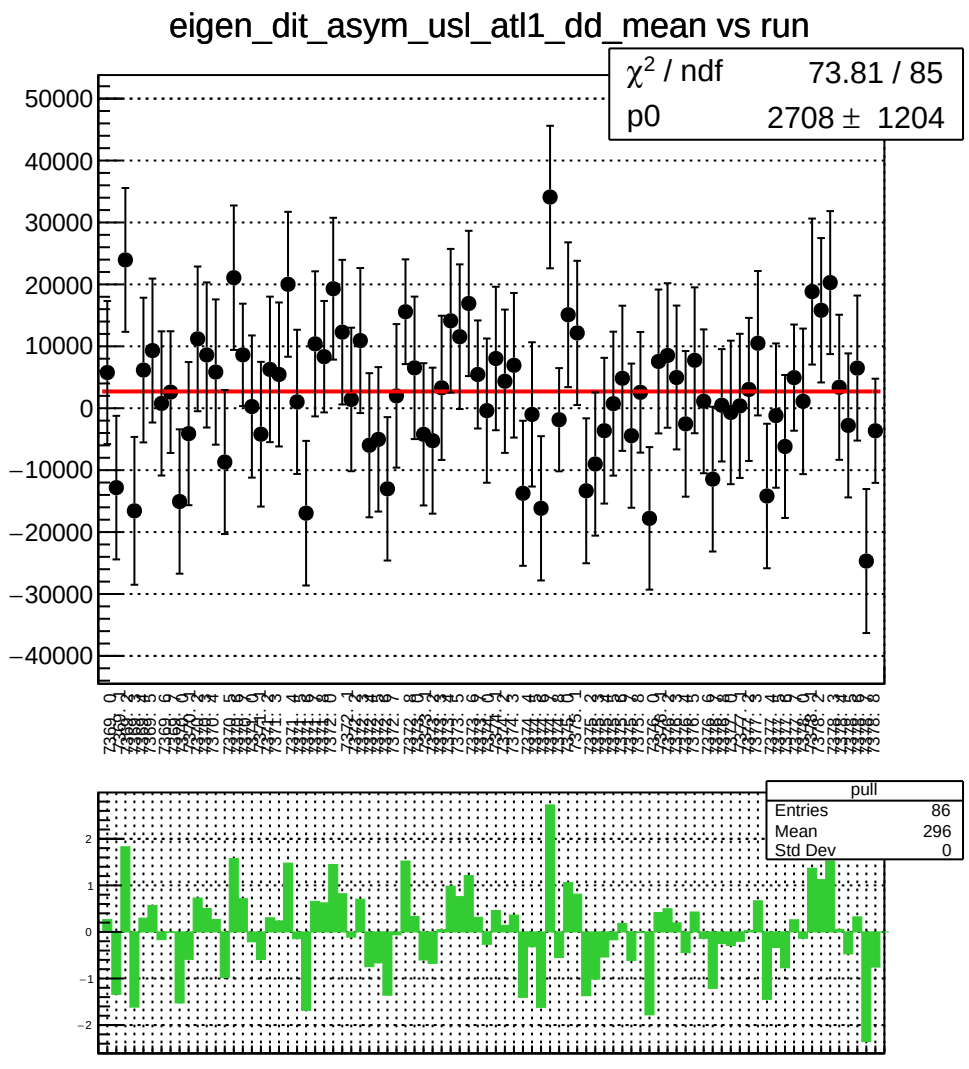

pull1D
Entries 86
Mean −0.008118
Std Dev 0.9264

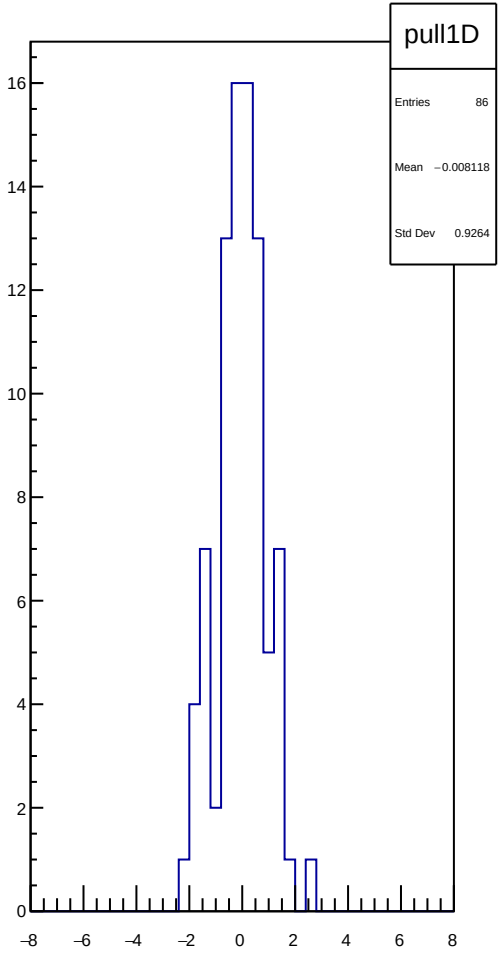

dit_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 73.2 / 85
p0 1105 ± 0.8516
1140
1130
1120
1110
1100
1090
1080

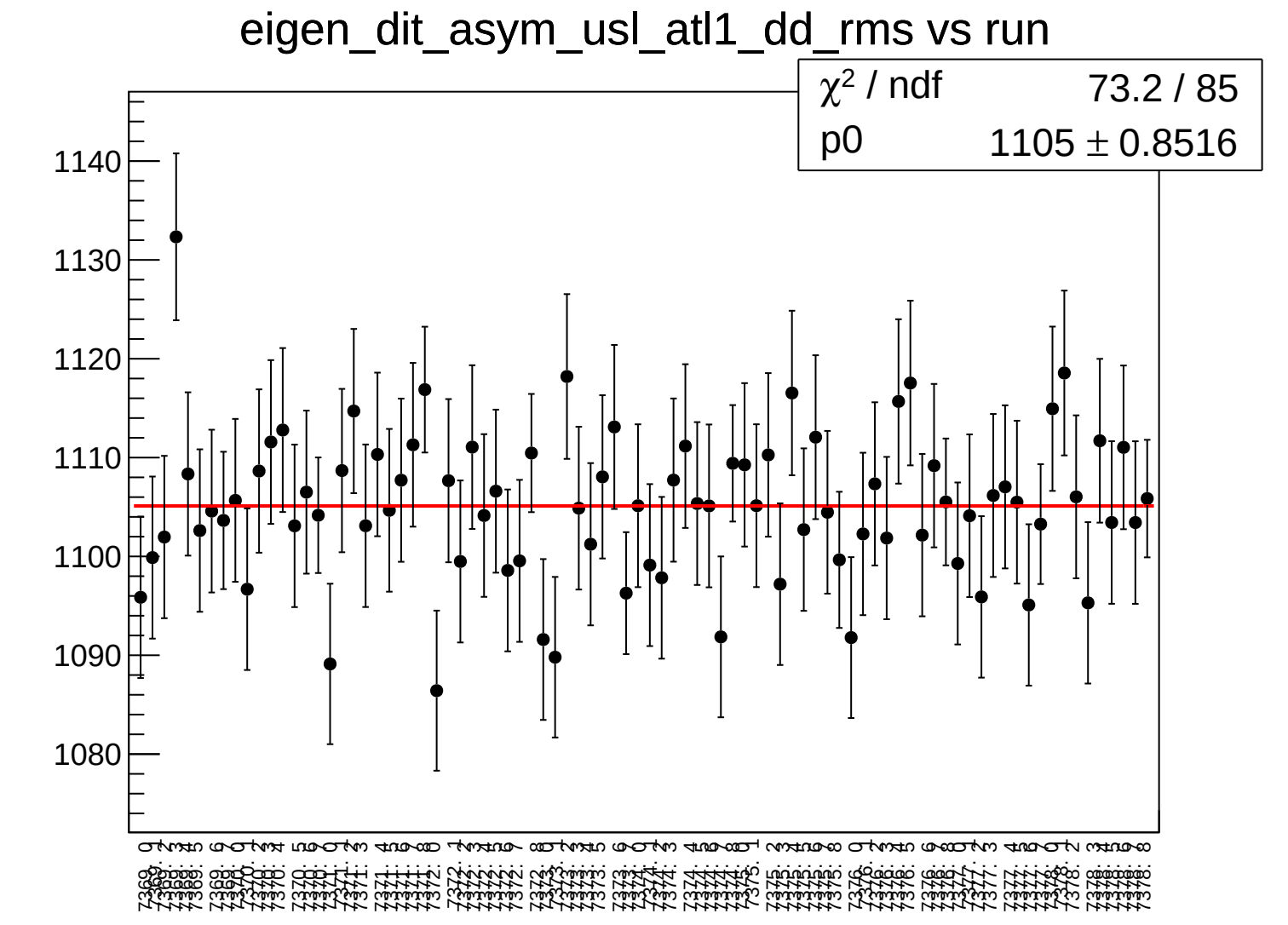

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 88.72 / 85
p0 −336.1 ± 596.3
pull
Entries 86
Mean −164.8
Std Dev 0

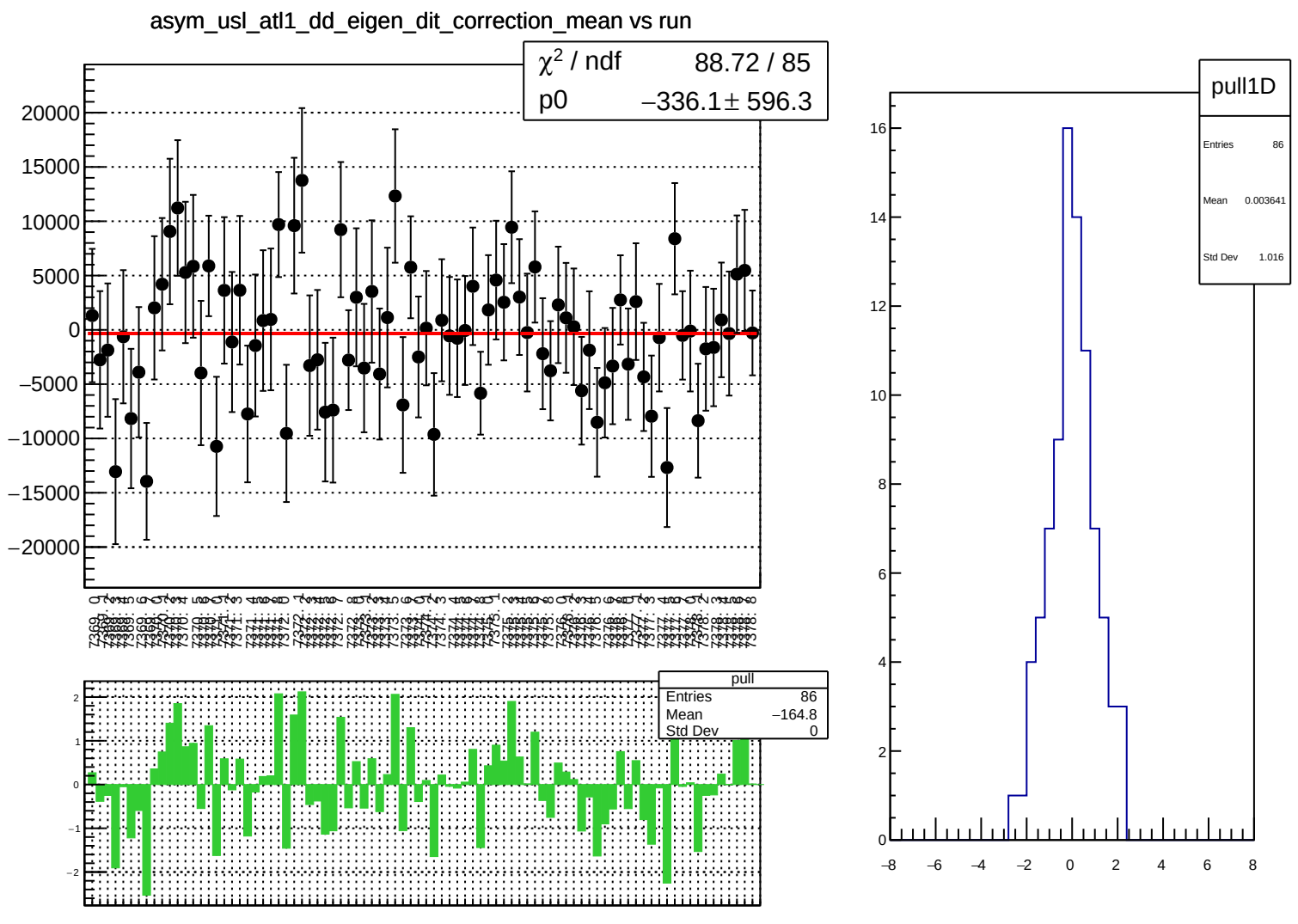

pull1D
Entries 86
Mean 0.003641
Std Dev 1.016

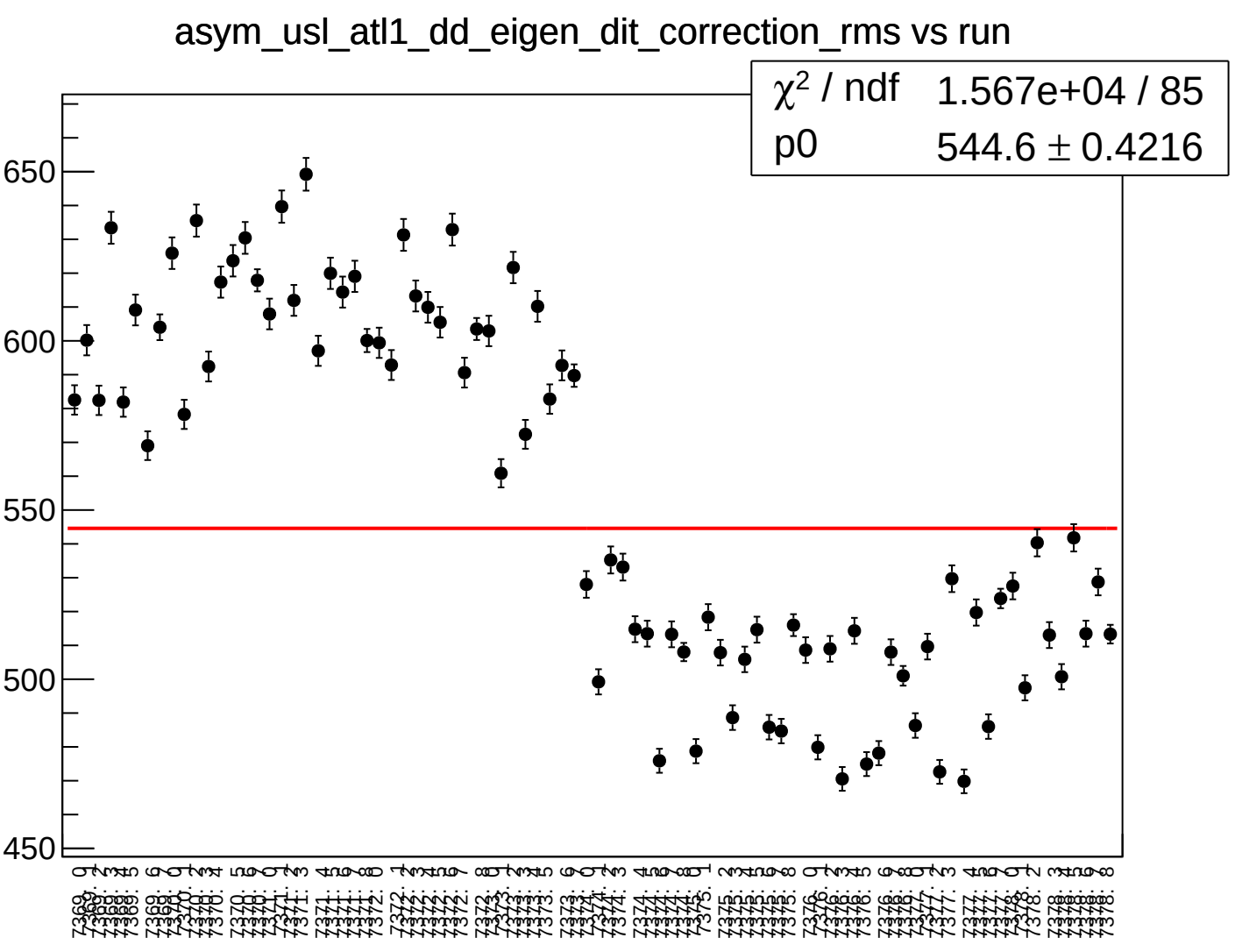

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.567e+04 / 85
p0 544.6 ± 0.4216
650
600
550
500
450

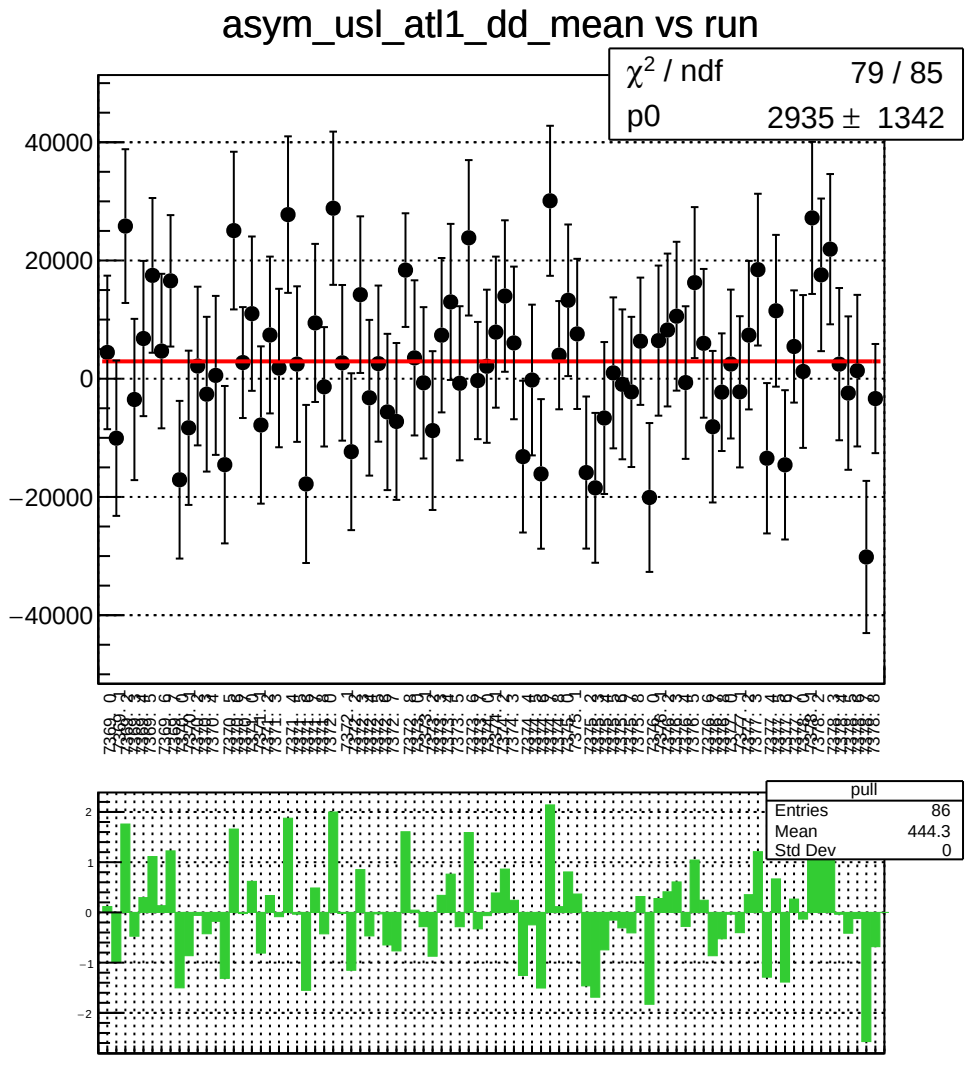

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 73.81 / 85
p0 2708 ± 1204
pull
Entries 86
Mean 296
Std Dev 0

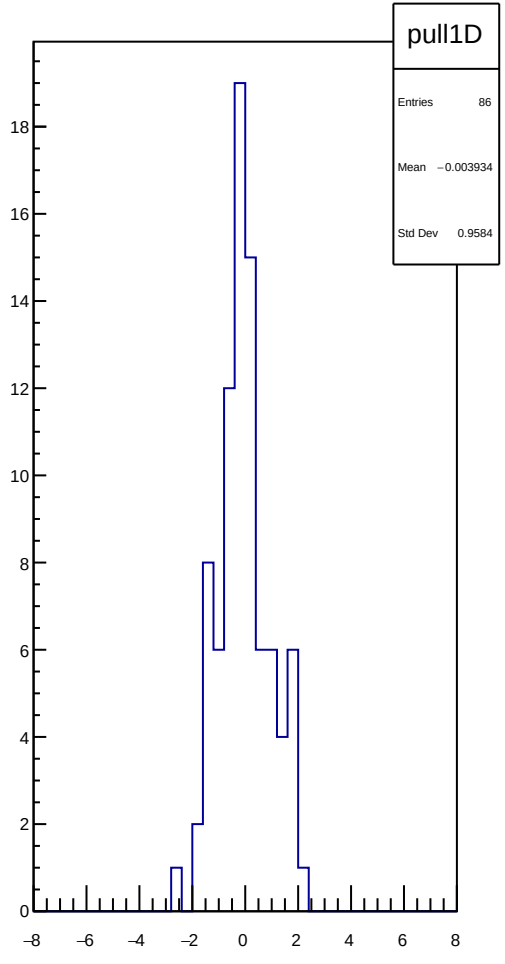

pull1D
Entries 86
Mean −0.008118
Std Dev 0.9264

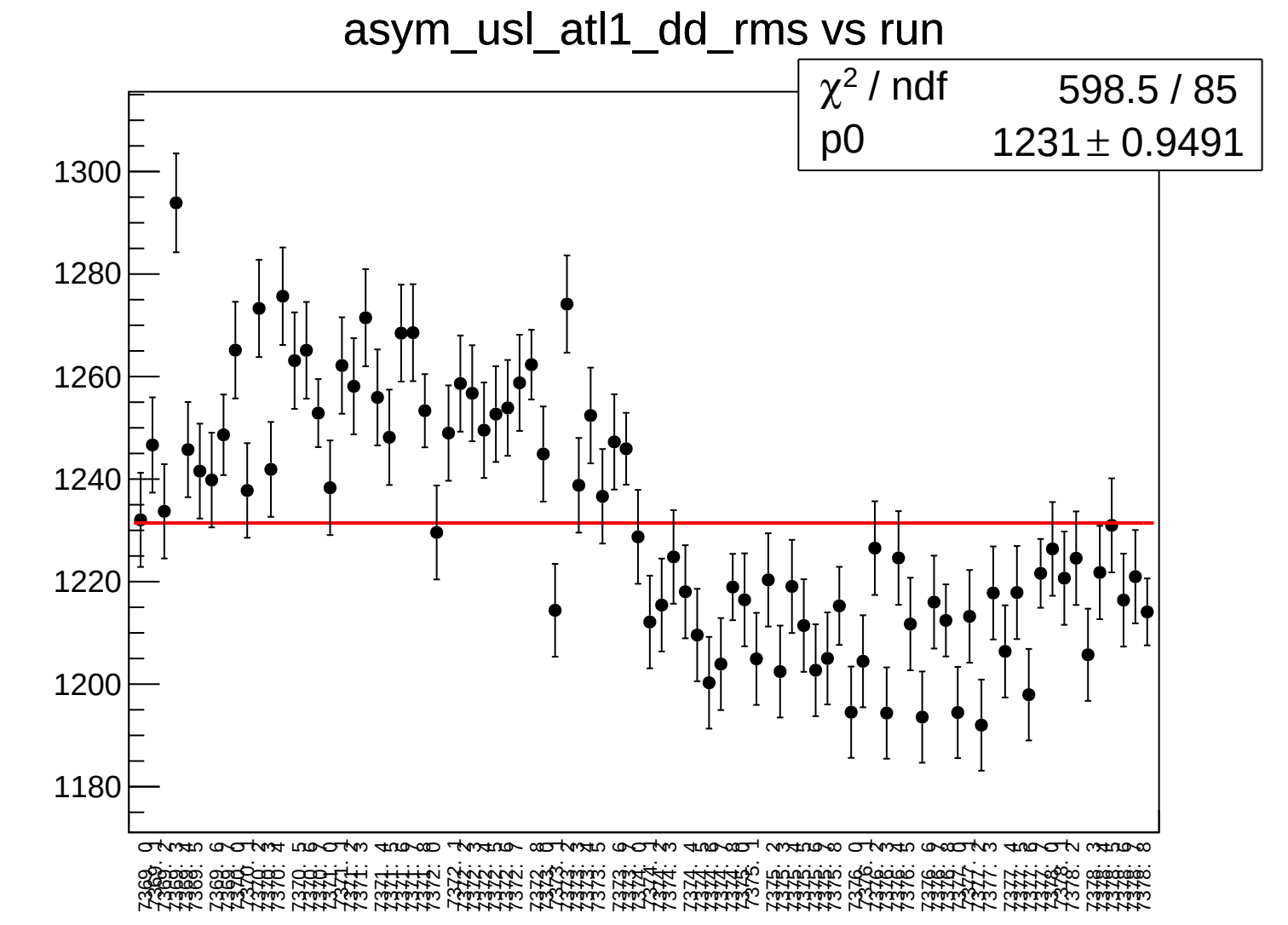

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 73.2 / 85
p0 1105 ± 0.8516
1140
1130
1120
1110
1100
1090
1080

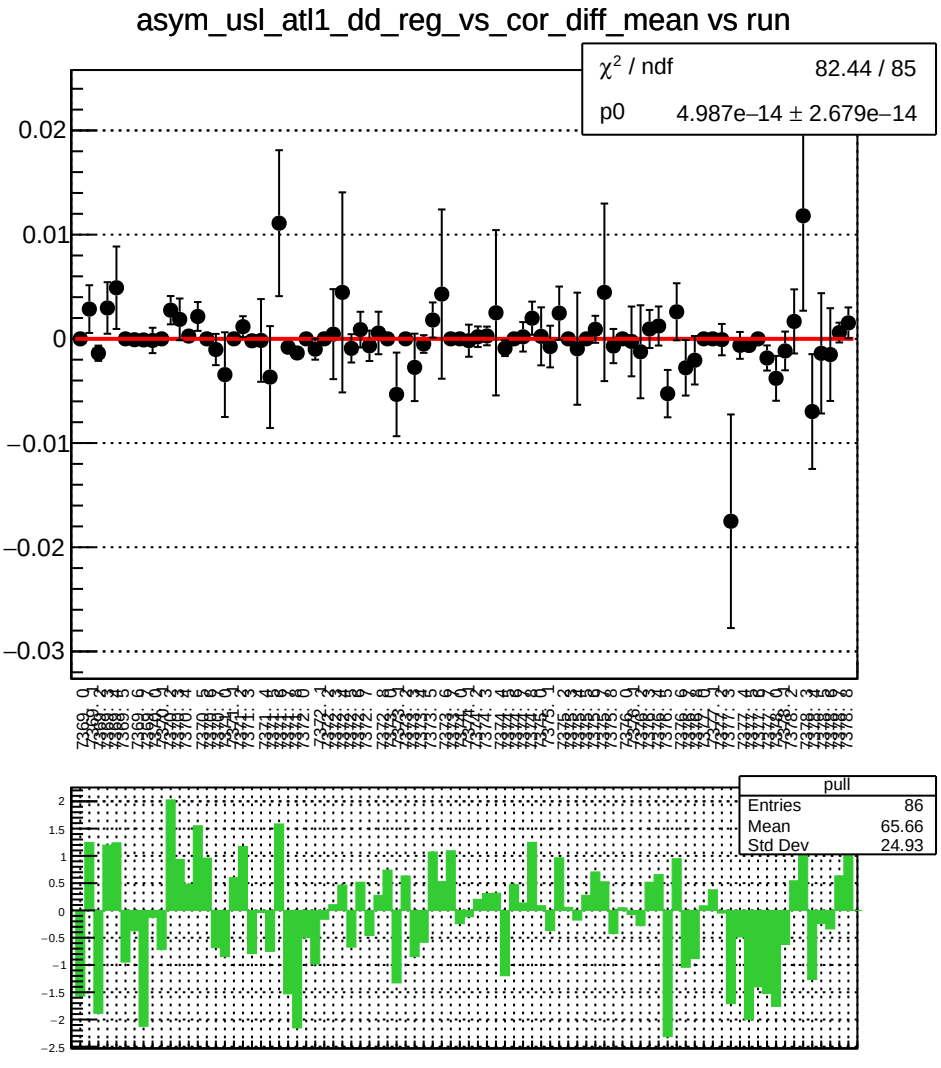

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.72 / 85
p0 −336.1 ± 596.3
pull
Entries 86
Mean −164.8
Std Dev 0
pull1D
Entries 86
Mean 0.003641
Std Dev 1.016

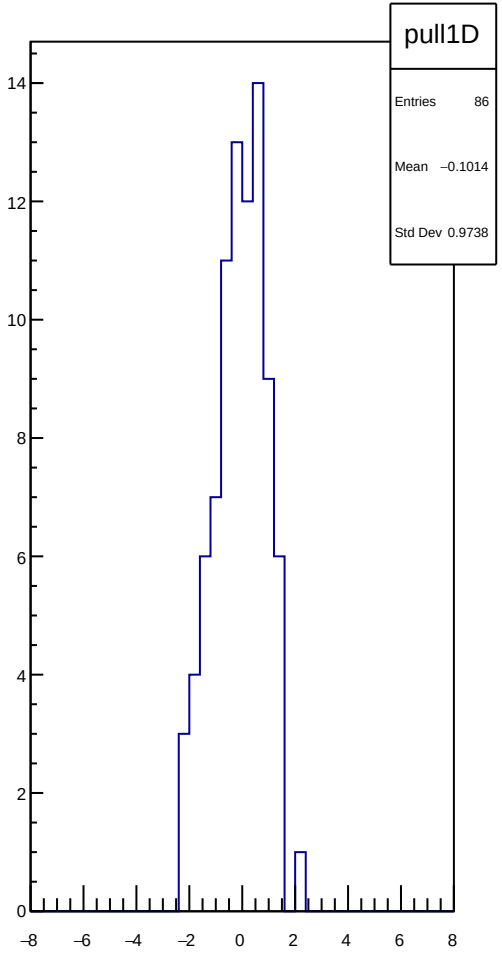

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.567e+04 / 85
p0 544.6 ± 0.4216
650
600
550
500
450

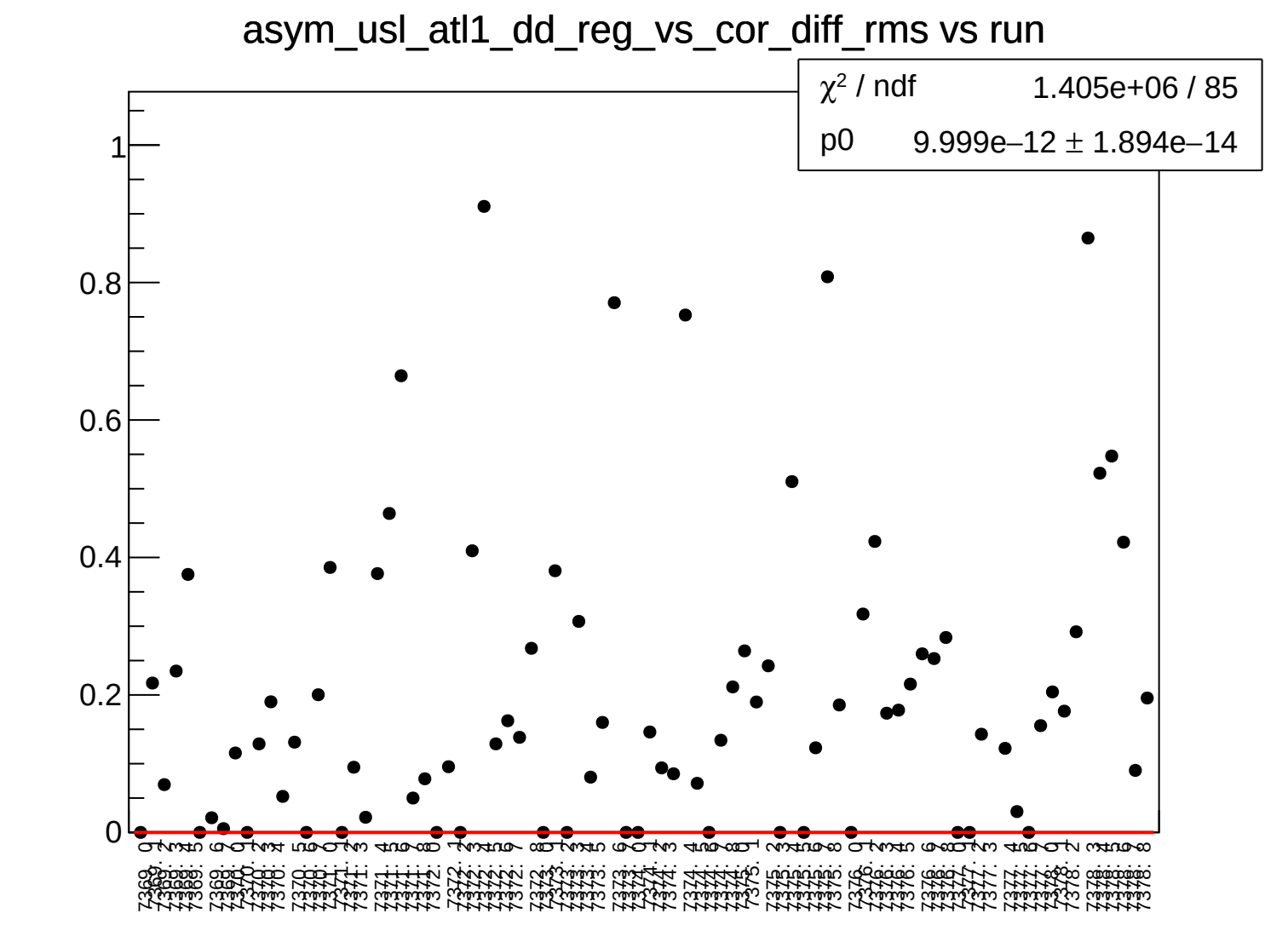

asym_usl_atl1_dd_mean vs run
χ² / ndf 79 / 85
p0 2935 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 444.3
Std Dev 0
2
1
0
−1
−2

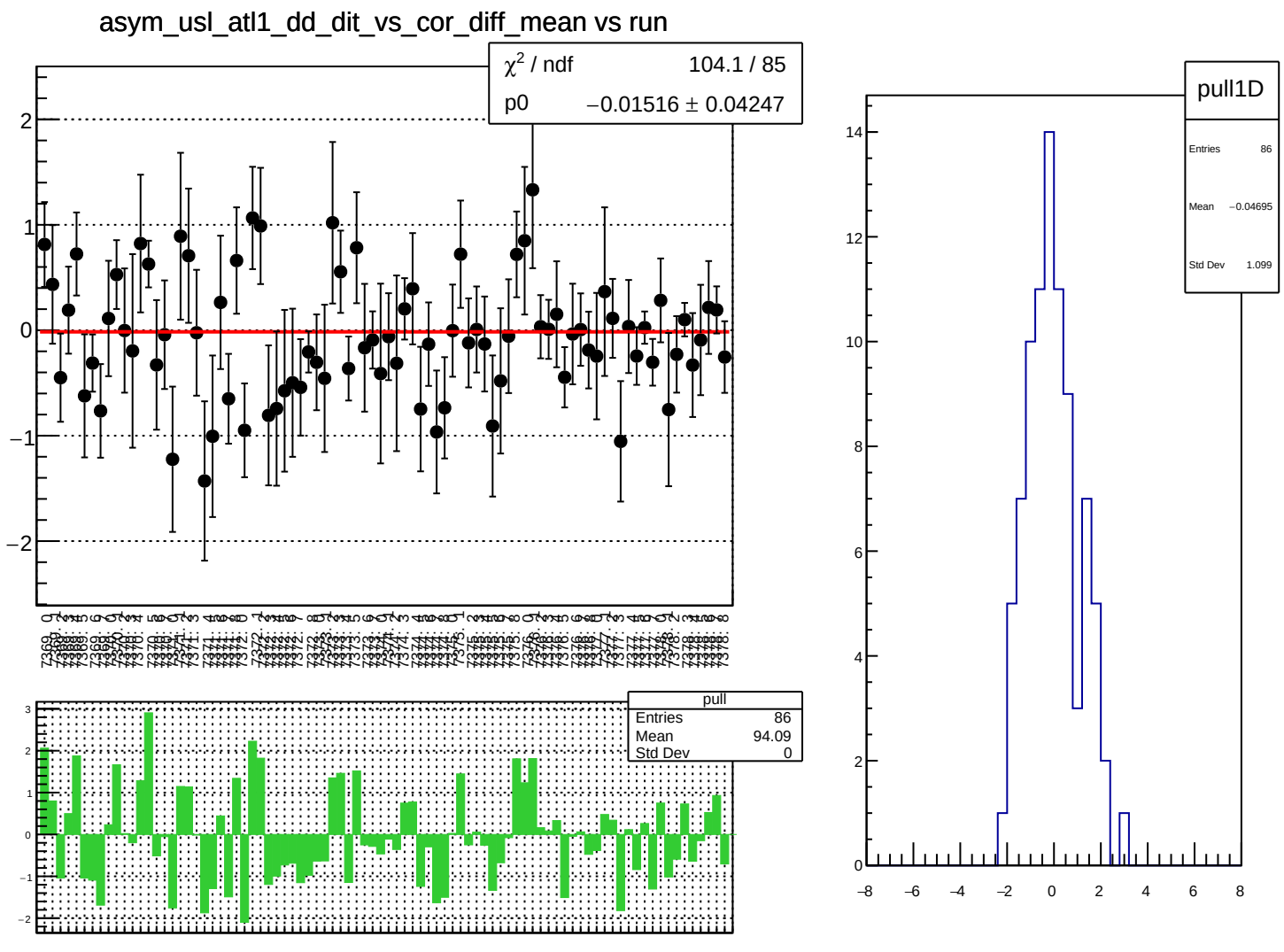

pull1D
Entries 86
Mean −0.003934
Std Dev 0.9584
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

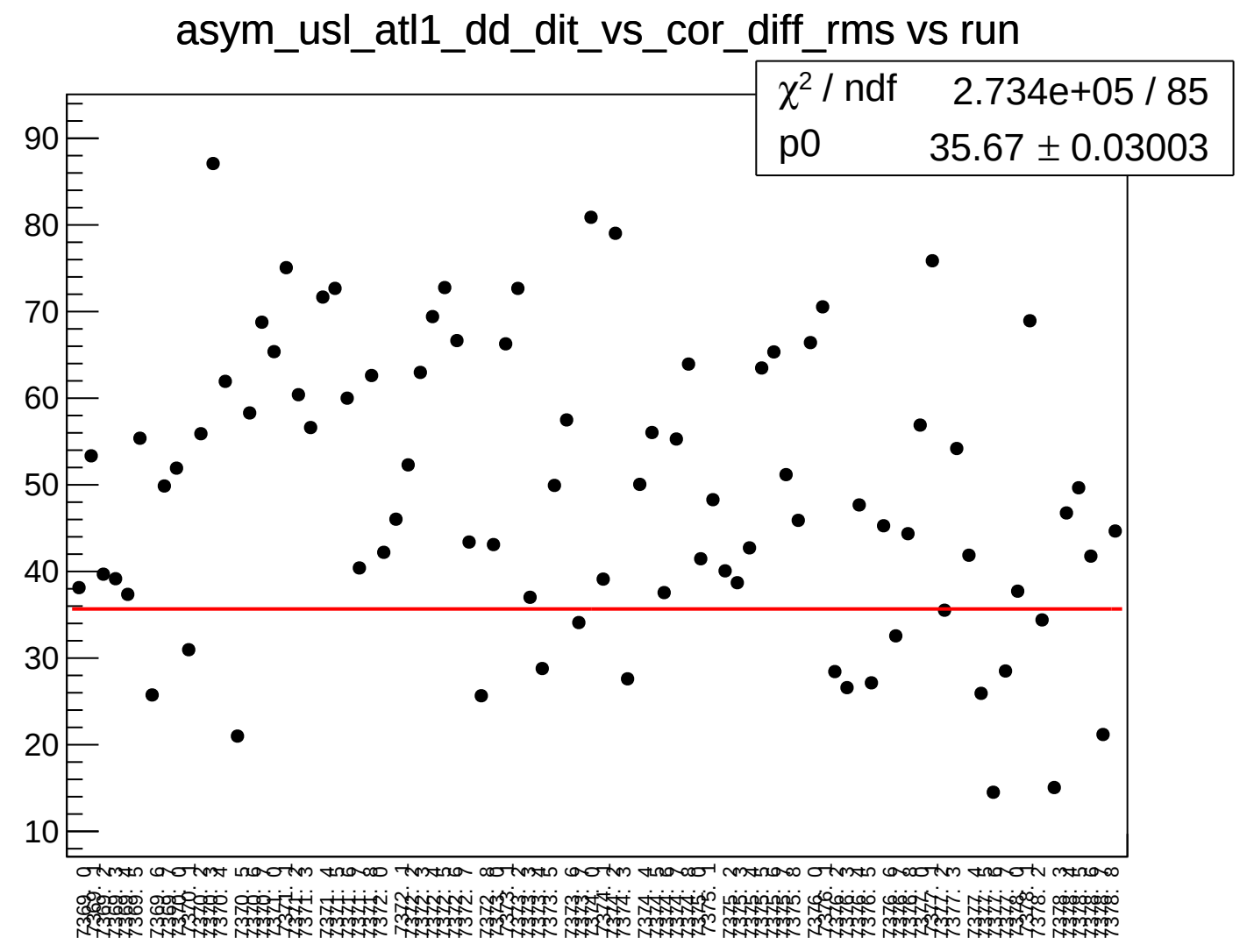

asym_usl_atl1_dd_rms vs run
χ² / ndf 598.5 / 85
p0 1231 ± 0.9491
1300
1280
1260
1240
1220
1200
1180

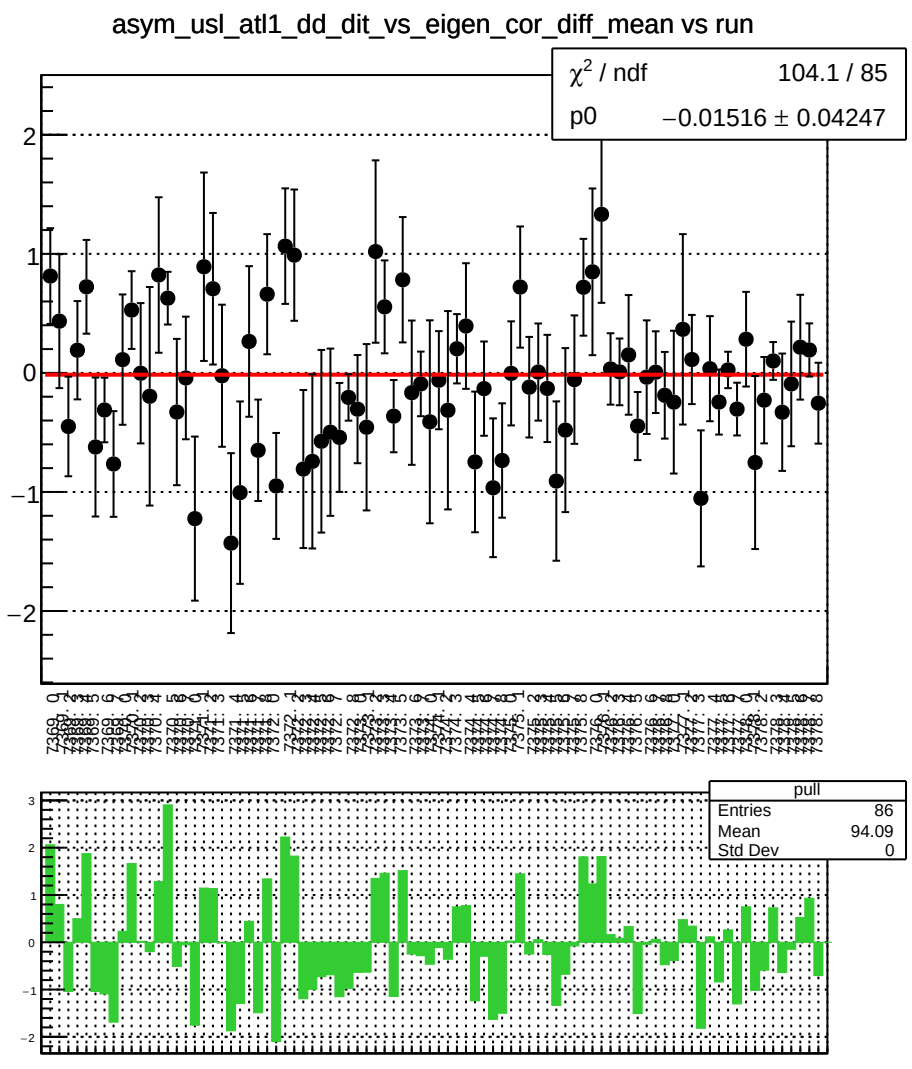

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.44 / 85
p0 4.987e−14 ± 2.679e−14
pull
Entries 86
Mean 65.66
Std Dev 24.93

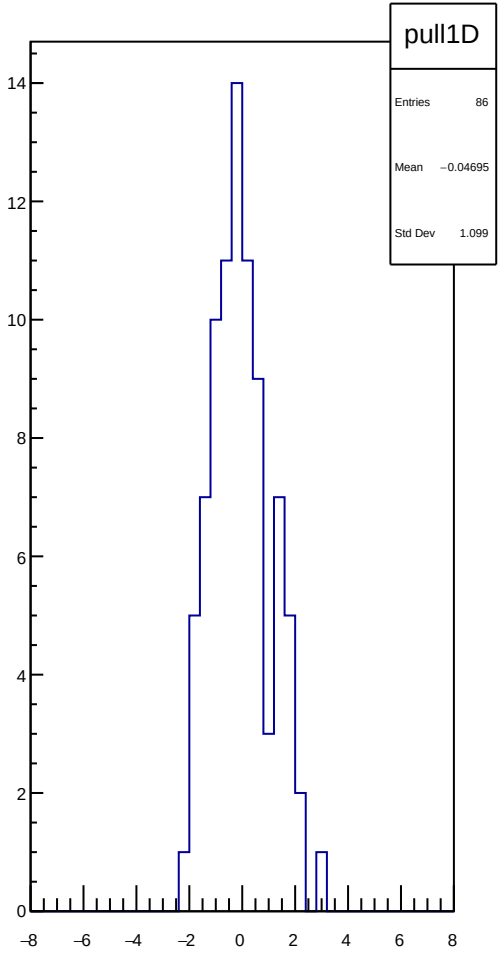

pull1D
Entries 86
Mean −0.1014
Std Dev 0.9738

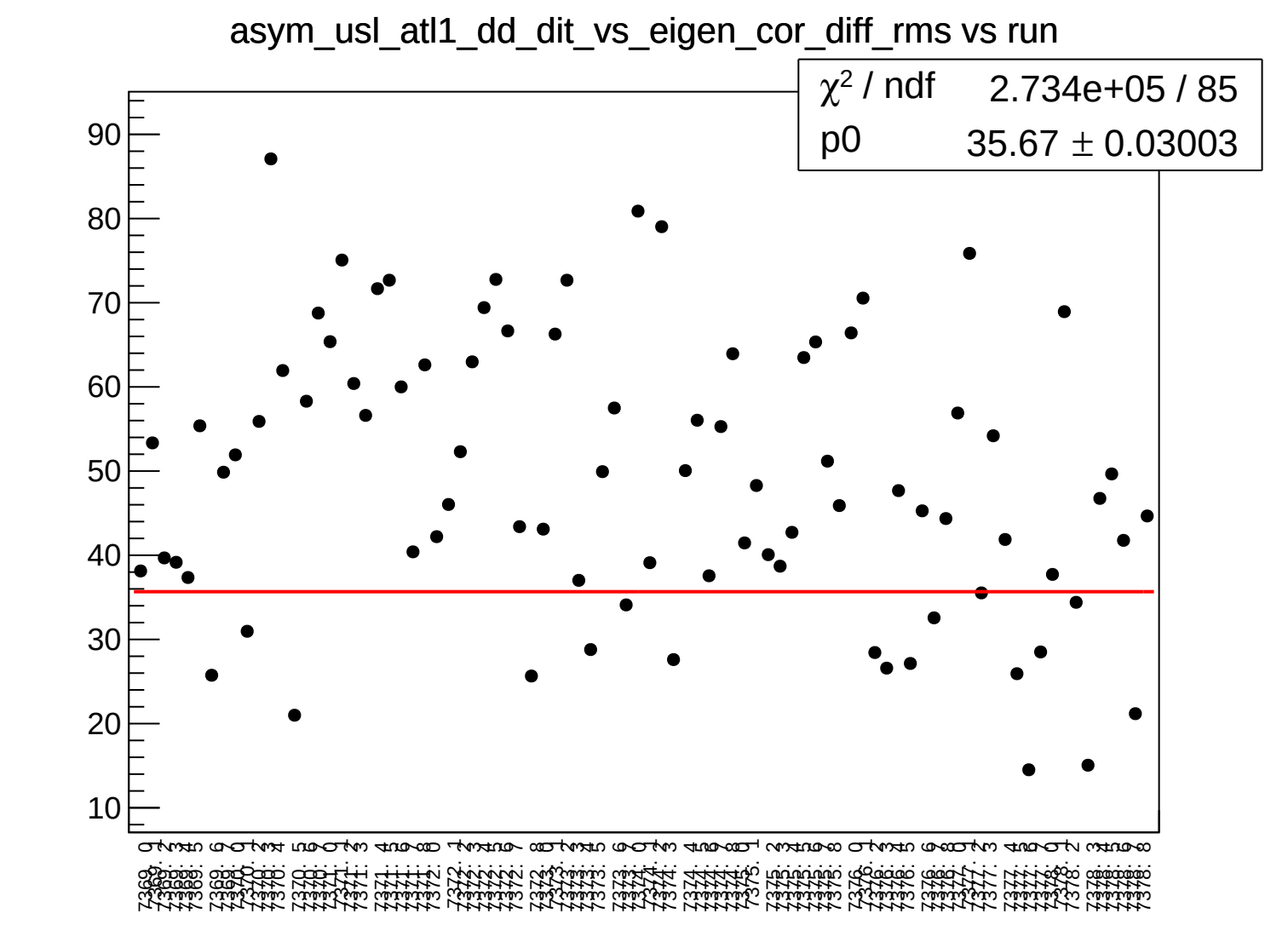

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.405e+06 / 85
p0 9.999e−12 ± 1.894e−14
1
0.8
0.6
0.4
0.2
0

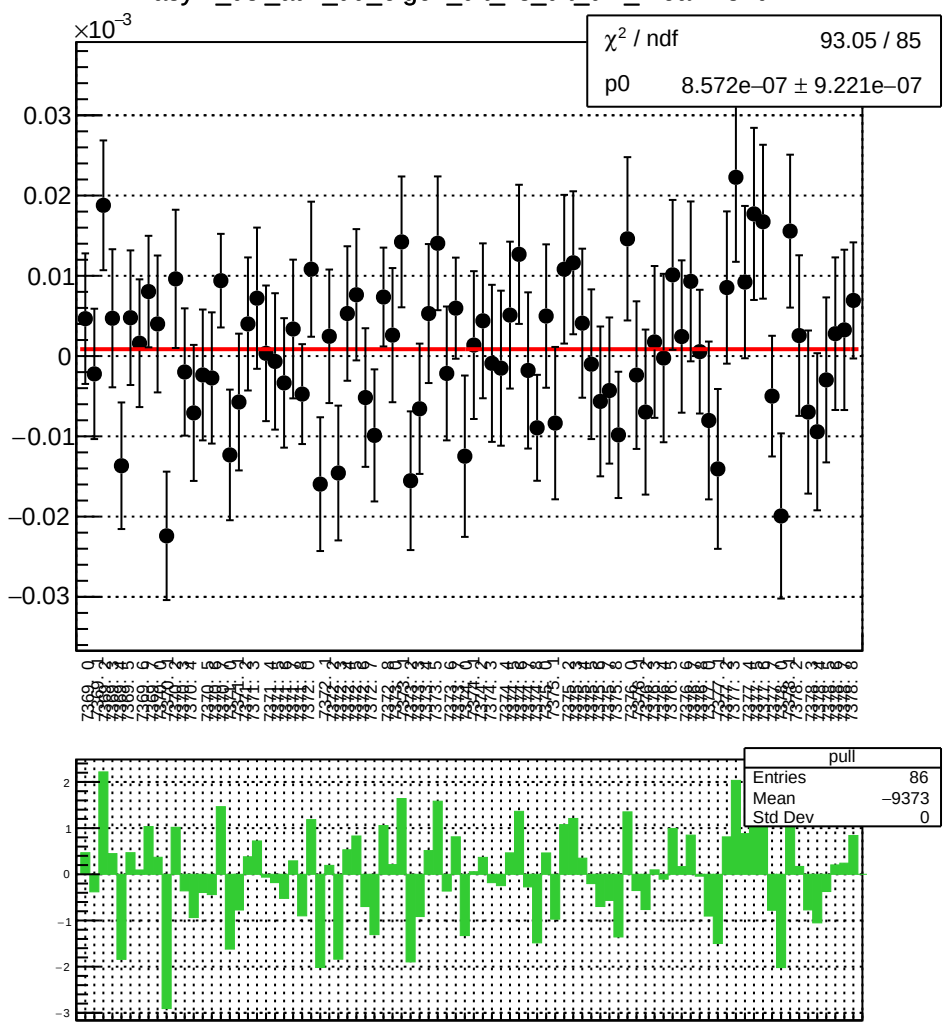

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 85
p0 −0.01516 ± 0.04247
pull
Entries 86
Mean 94.09
Std Dev 0
pull1D
Entries 86
Mean −0.04695
Std Dev 1.099

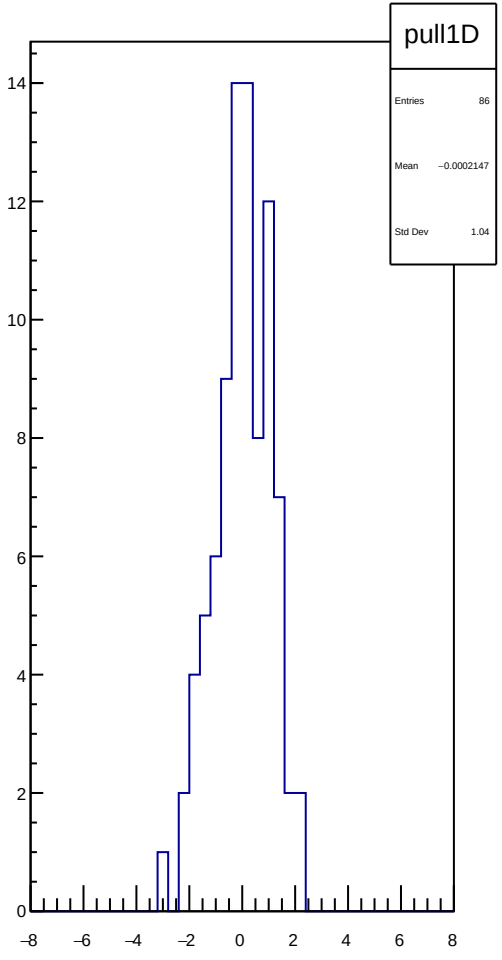

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.734e+05 / 85
p0 35.67 ± 0.03003
90
80
70
60
50
40
30
20
10

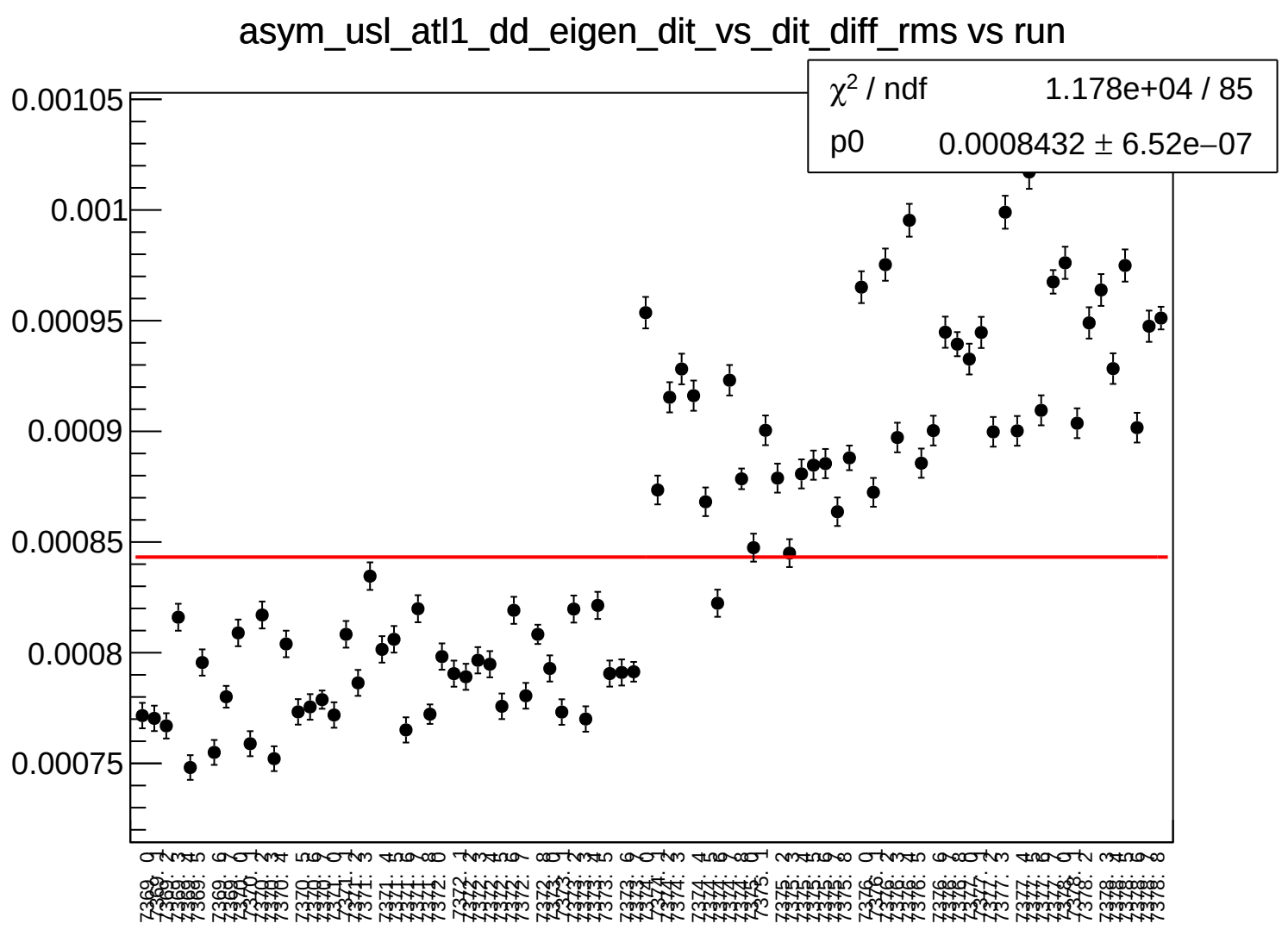

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 85
p0 −0.01516 ± 0.04247
pull
Entries 86
Mean 94.09
Std Dev 0

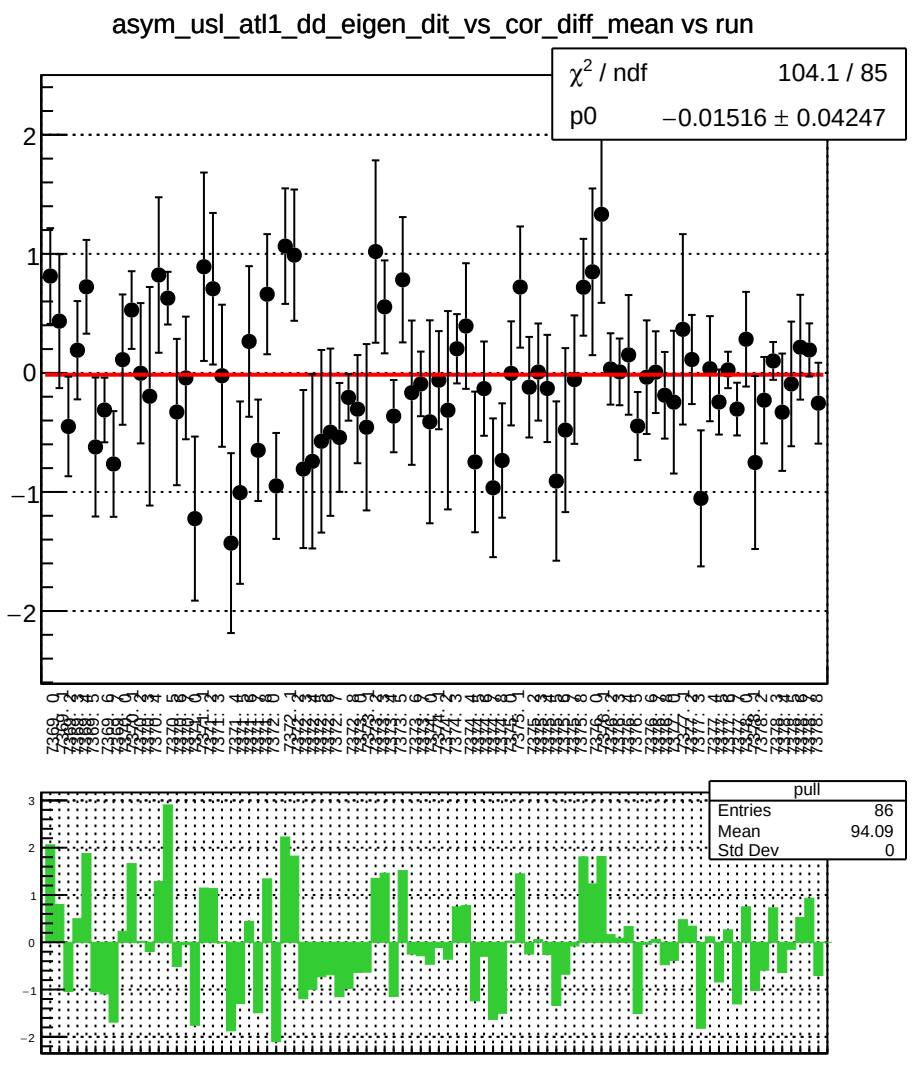

pull1D
Entries 86
Mean −0.04695
Std Dev 1.099

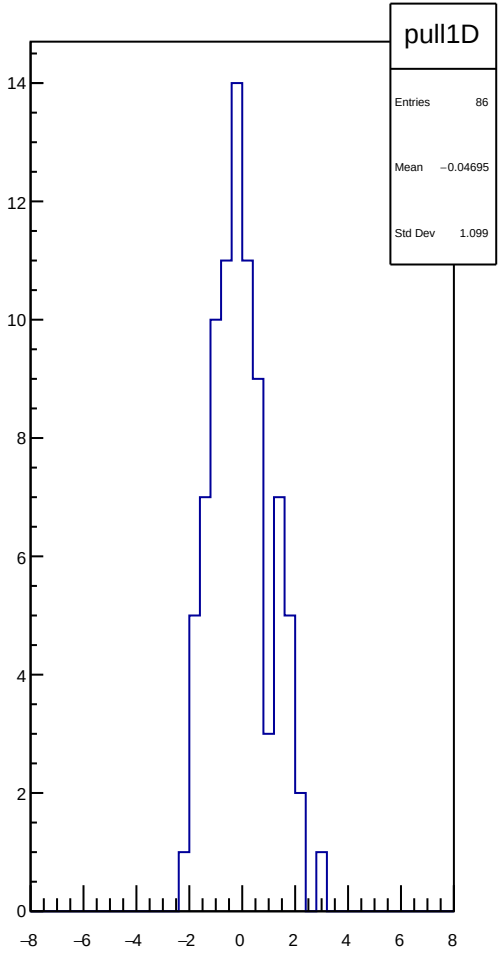

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.734e+05 / 85
p0 35.67 ± 0.03003
90
80
70
60
50
40
30
20
10

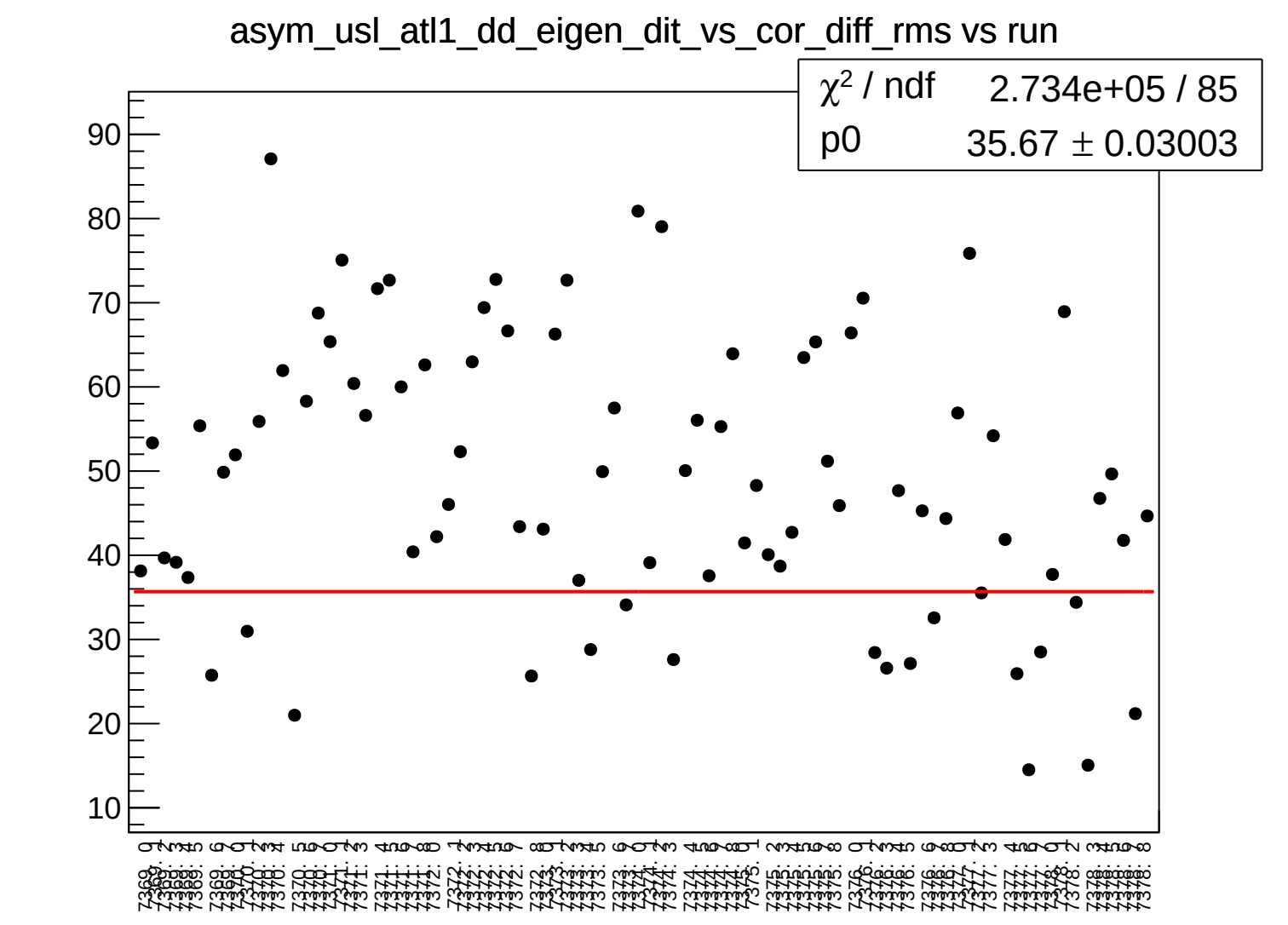

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.05 / 85
p0 8.572e−07 ± 9.221e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean −9373
Std Dev 0
2
1
0
−1
−2
−3

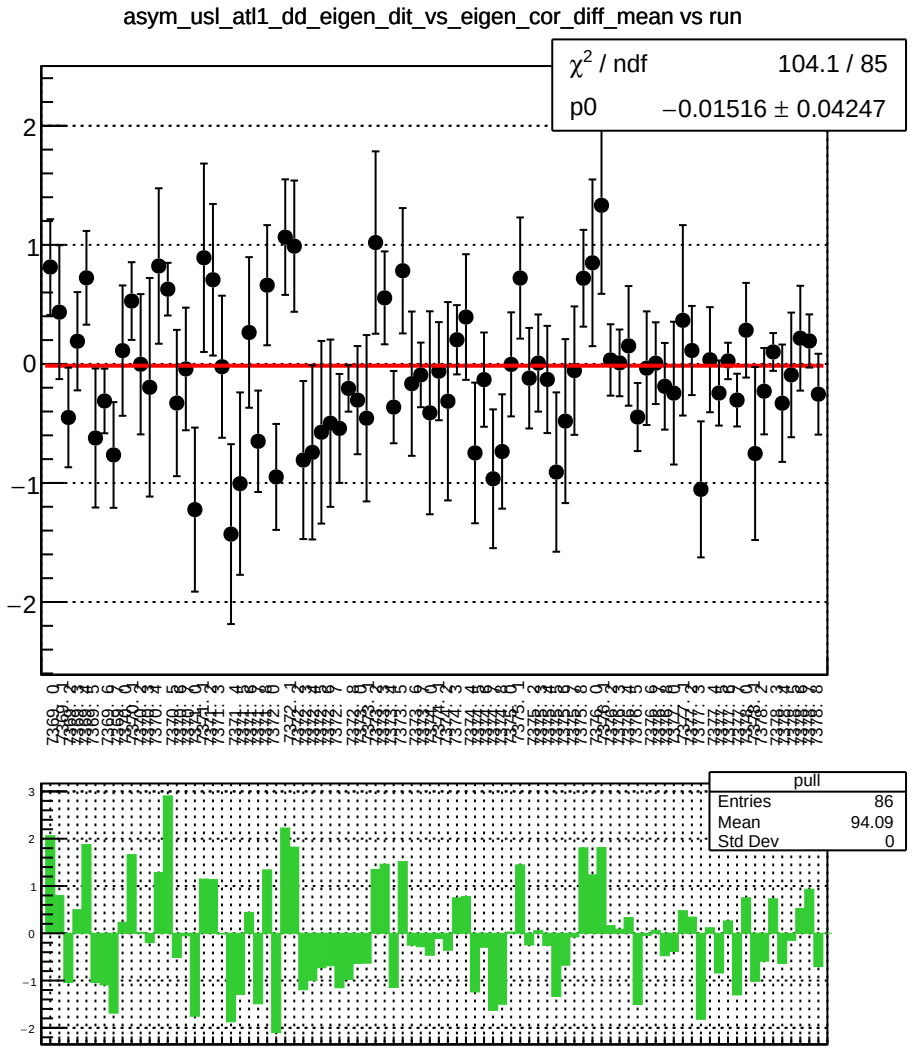

pull1D
Entries 86
Mean −0.0002147
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

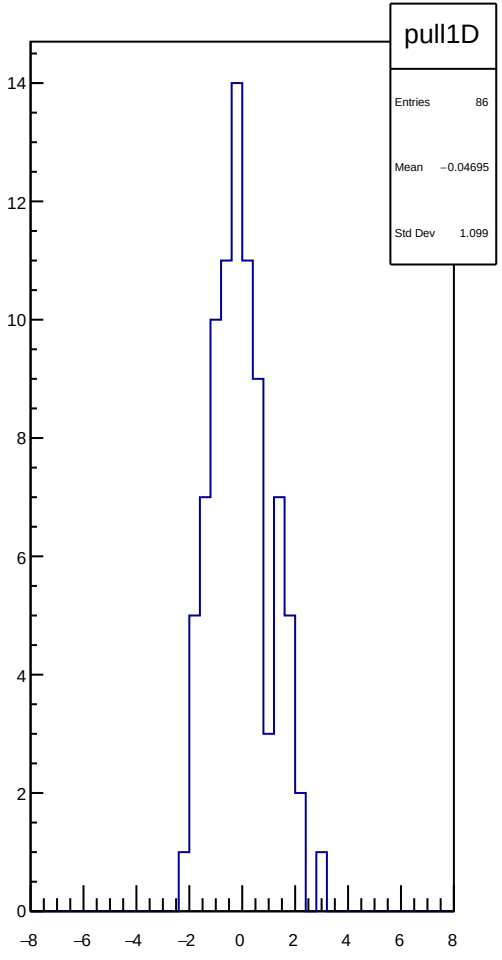

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.178e+04 / 85
p0 0.0008432 ± 6.52e−07
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075

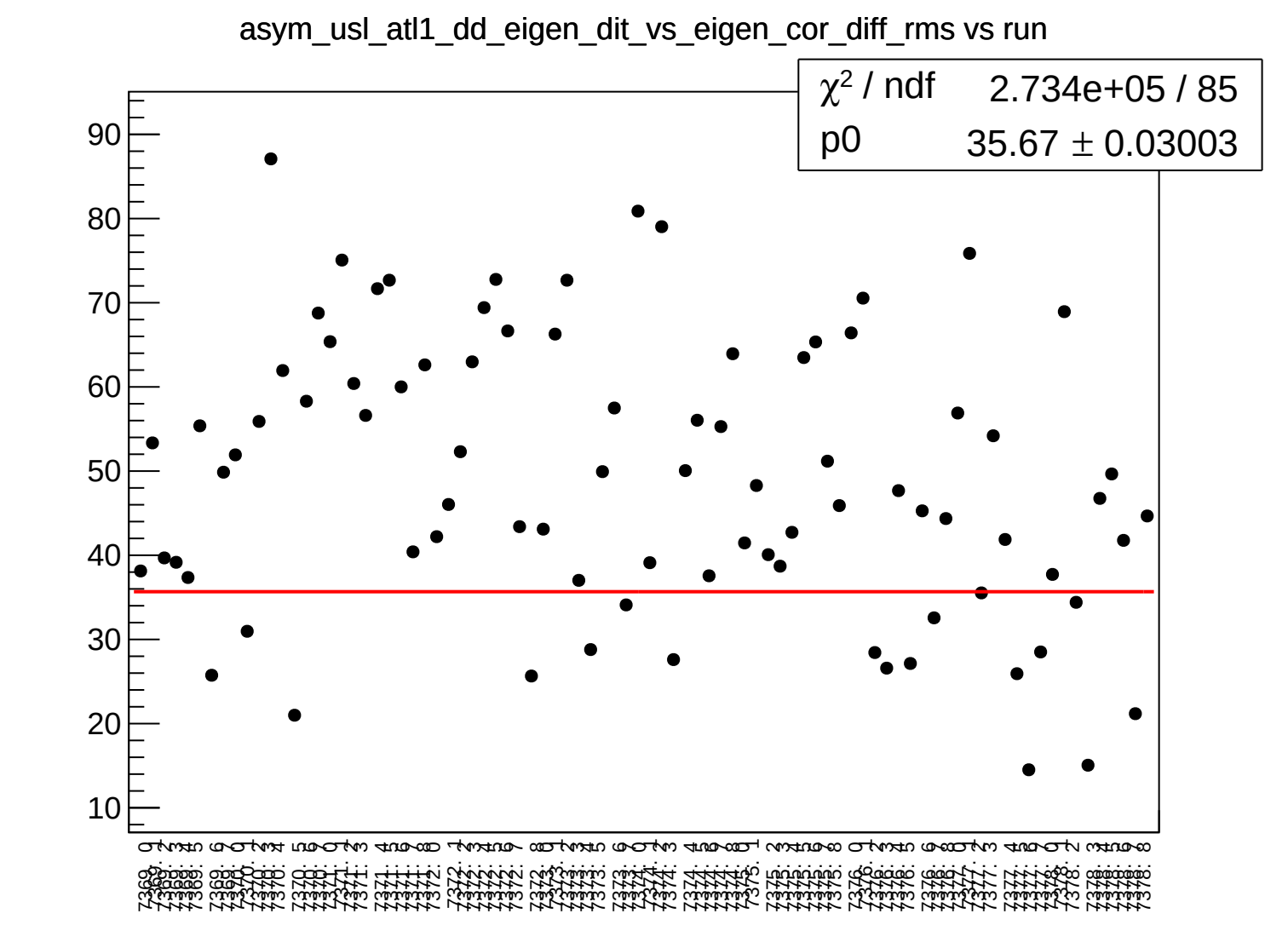

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 85
p0 −0.01516 ± 0.04247
pull
Entries 86
Mean 94.09
Std Dev 0

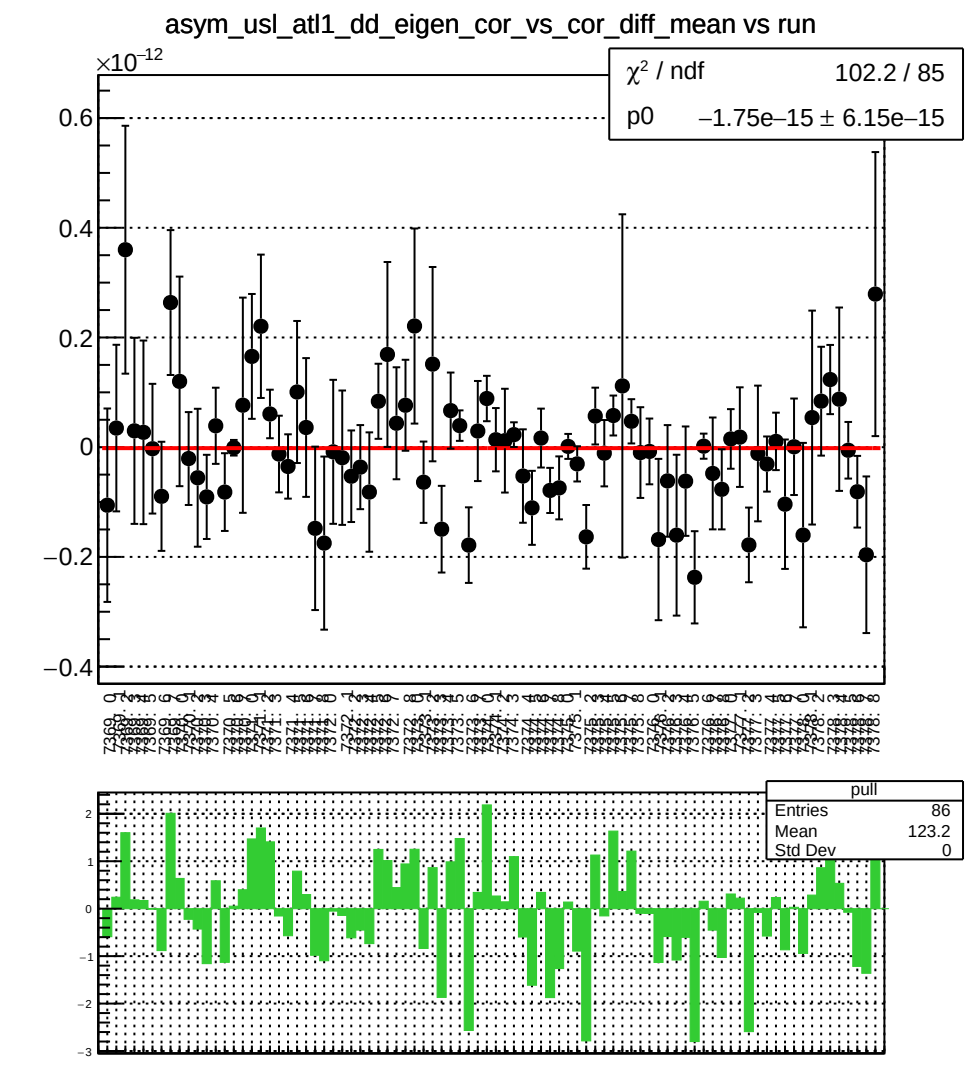

pull1D
Entries 86
Mean −0.04695
Std Dev 1.099

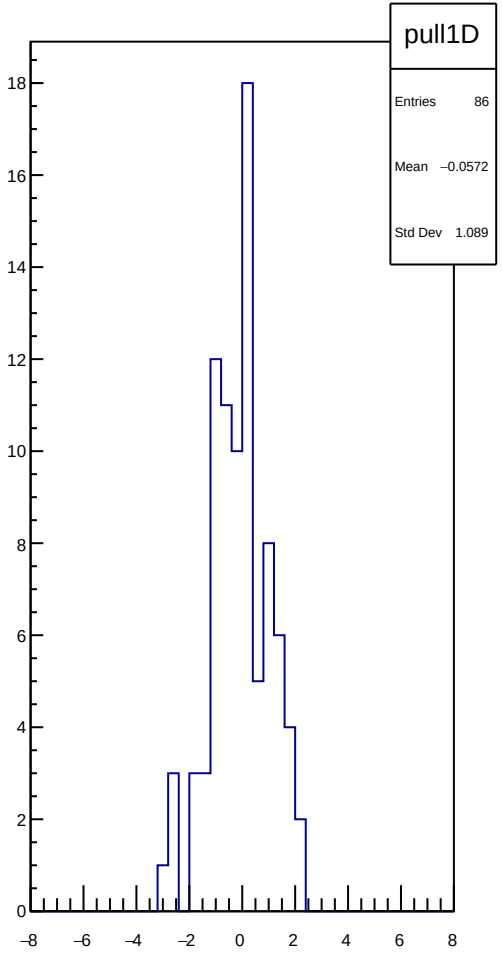

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.734e+05 / 85
p0 35.67 ± 0.03003
90
80
70
60
50
40
30
20
10

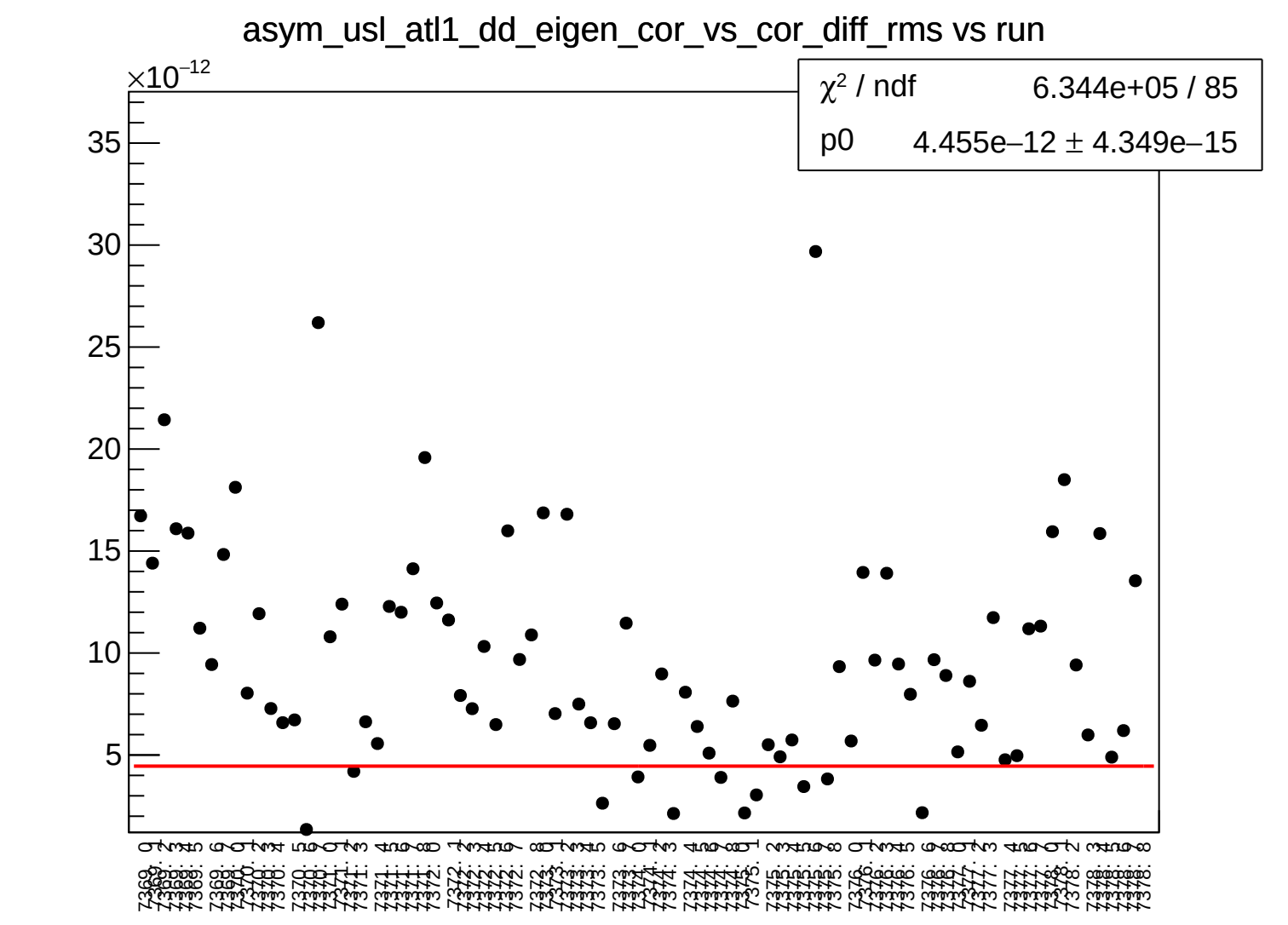

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 85
p0 −0.01516 ± 0.04247
pull
Entries 86
Mean 94.09
Std Dev 0

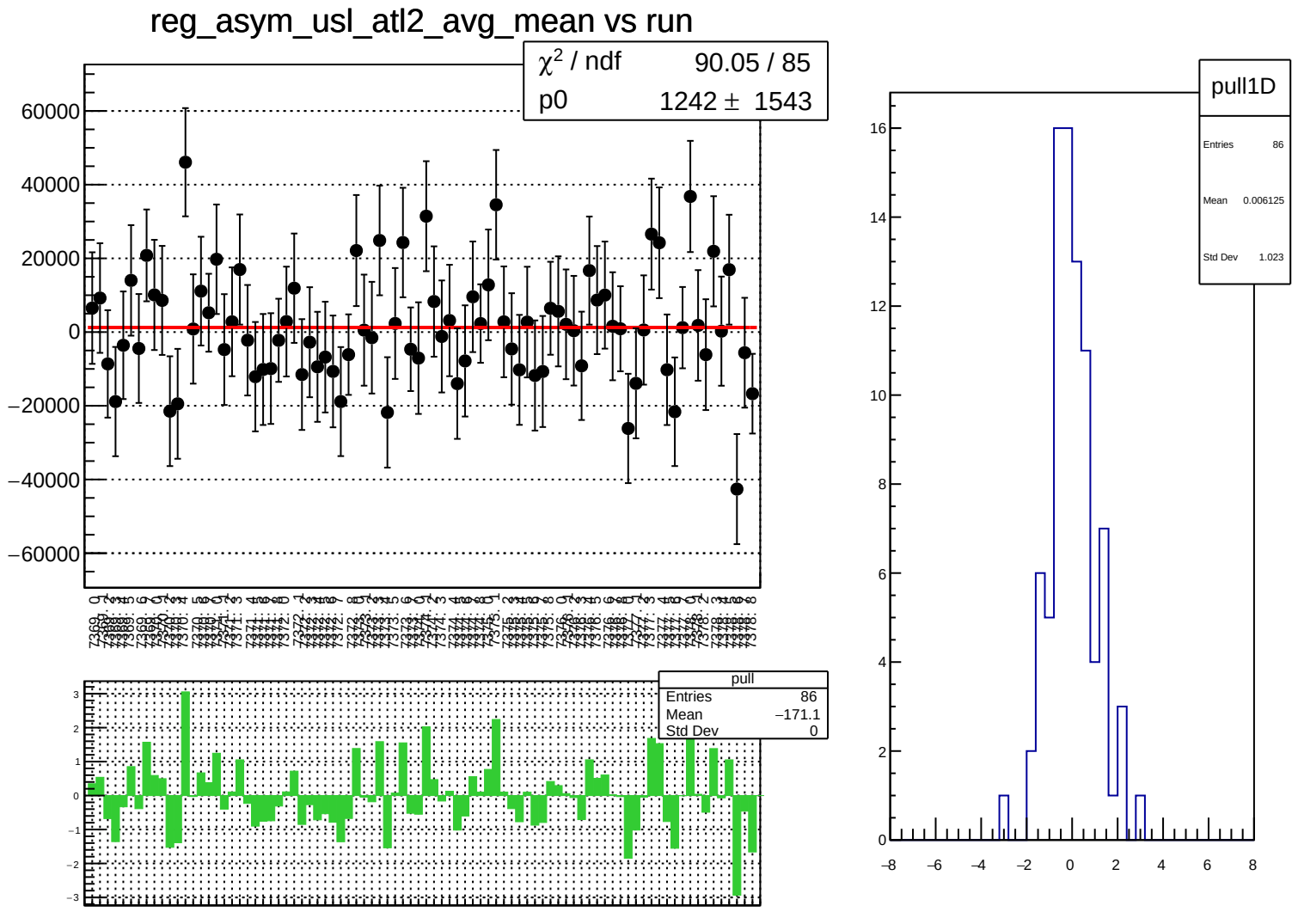

pull1D
Entries 86
Mean −0.04695
Std Dev 1.099

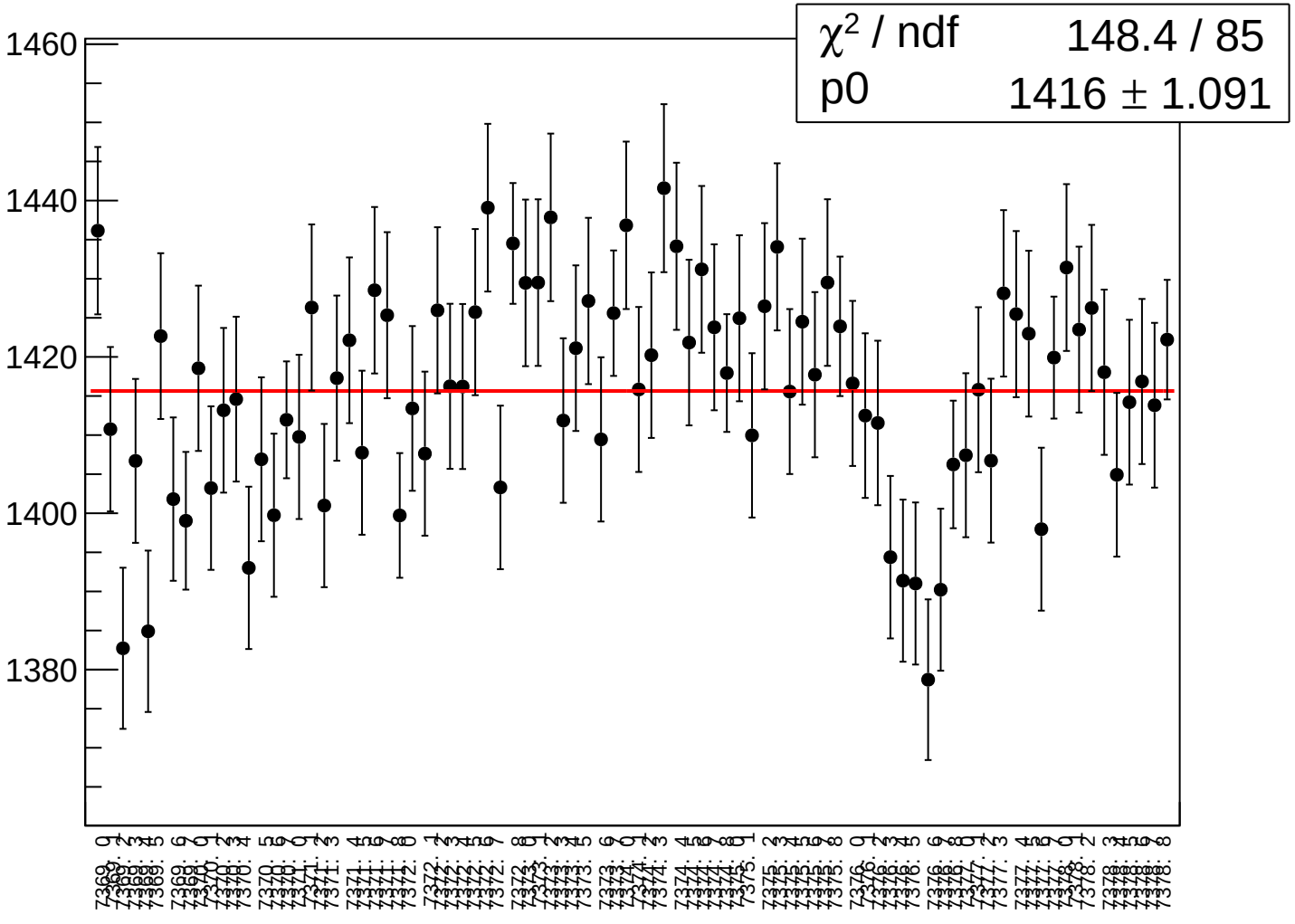

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.734e+05 / 85
p0 35.67 ± 0.03003
90
80
70
60
50
40
30
20
10

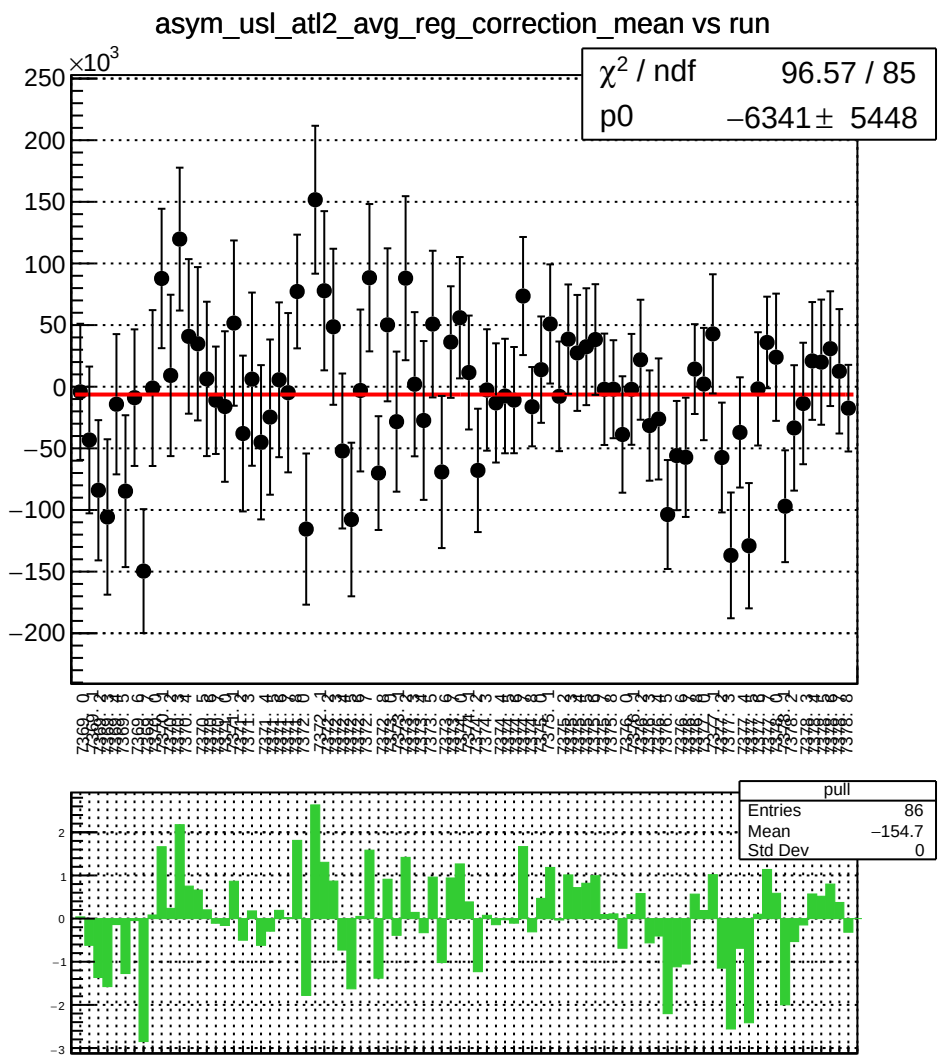

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.2 / 85
p0 −1.75e−15 ± 6.15e−15
pull
Entries 86
Mean 123.2
Std Dev 0

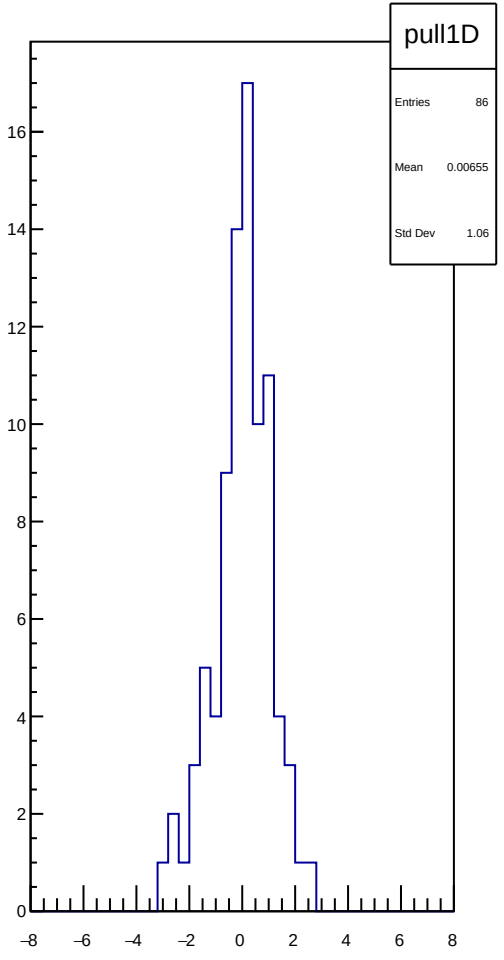

pull1D
Entries 86
Mean −0.0572
Std Dev 1.089

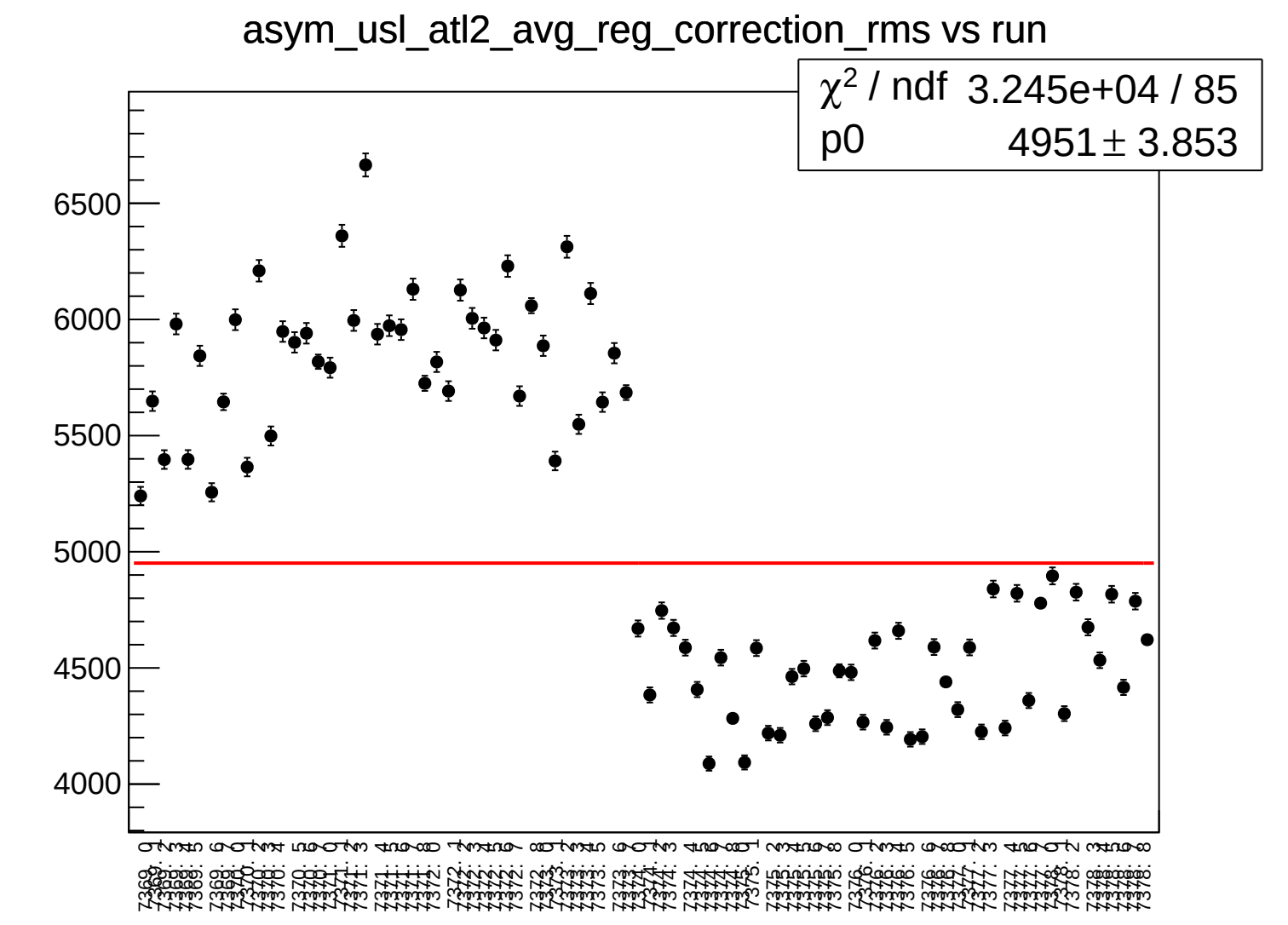

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.344e+05 / 85
p0 4.455e−12 ± 4.349e−15
35
30
25
20
15
10
5

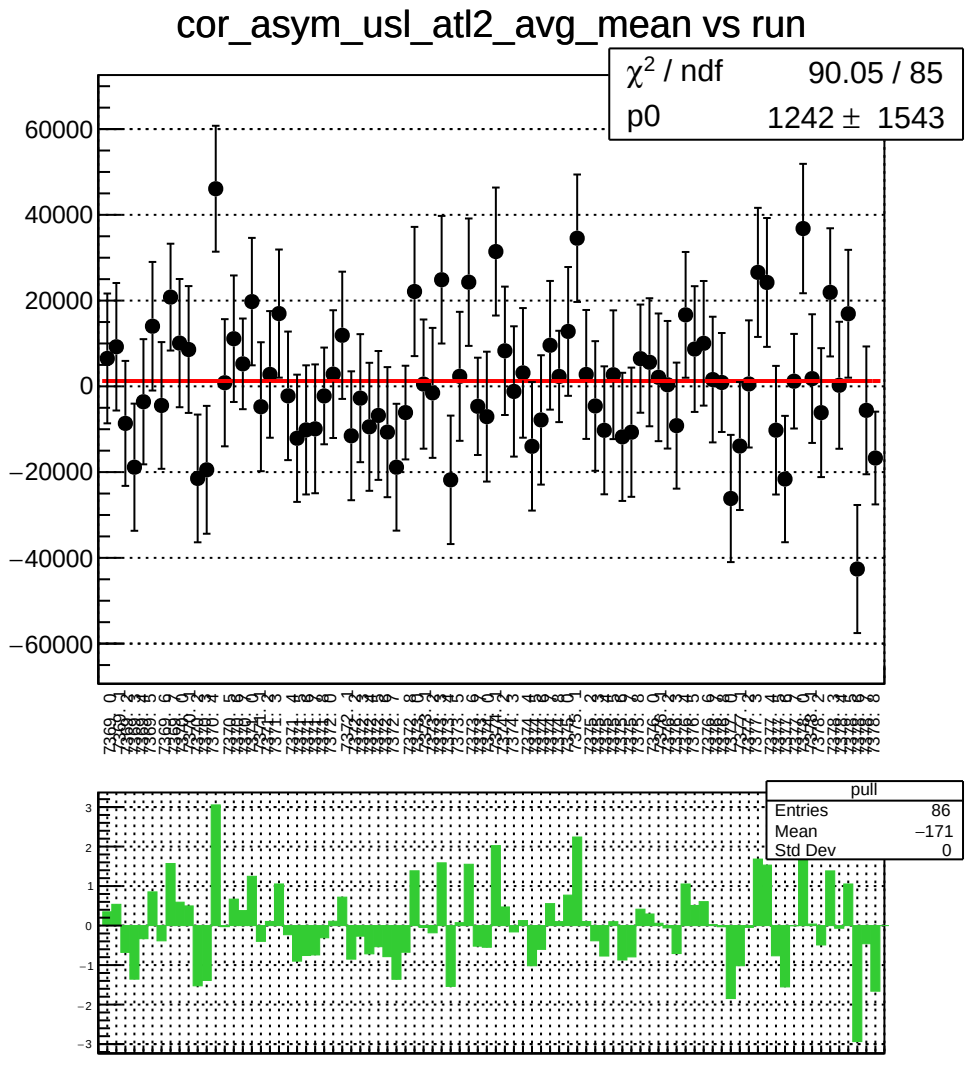

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.05 / 85
p0 1242 ± 1543
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −171.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.006125
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

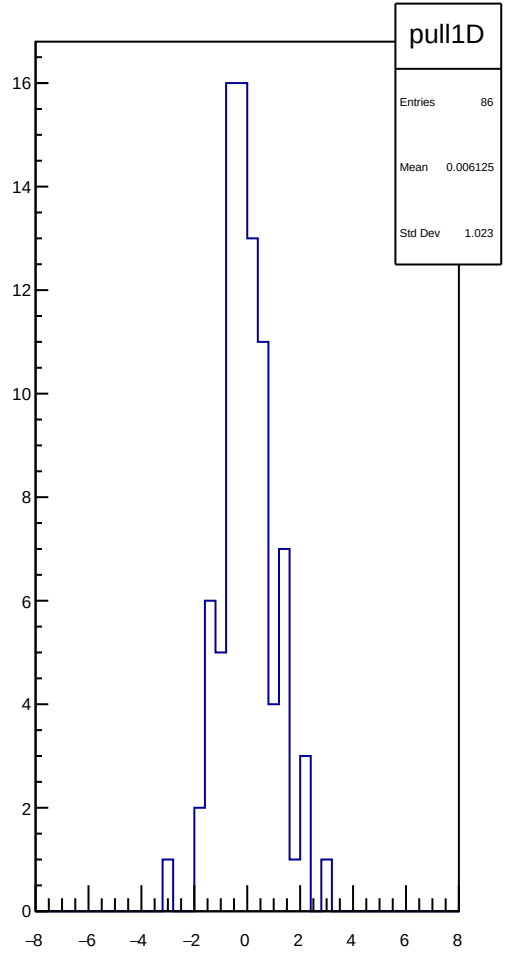

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 148.4 / 85
p0 1416 ± 1.091
1460
1440
1420
1400
1380

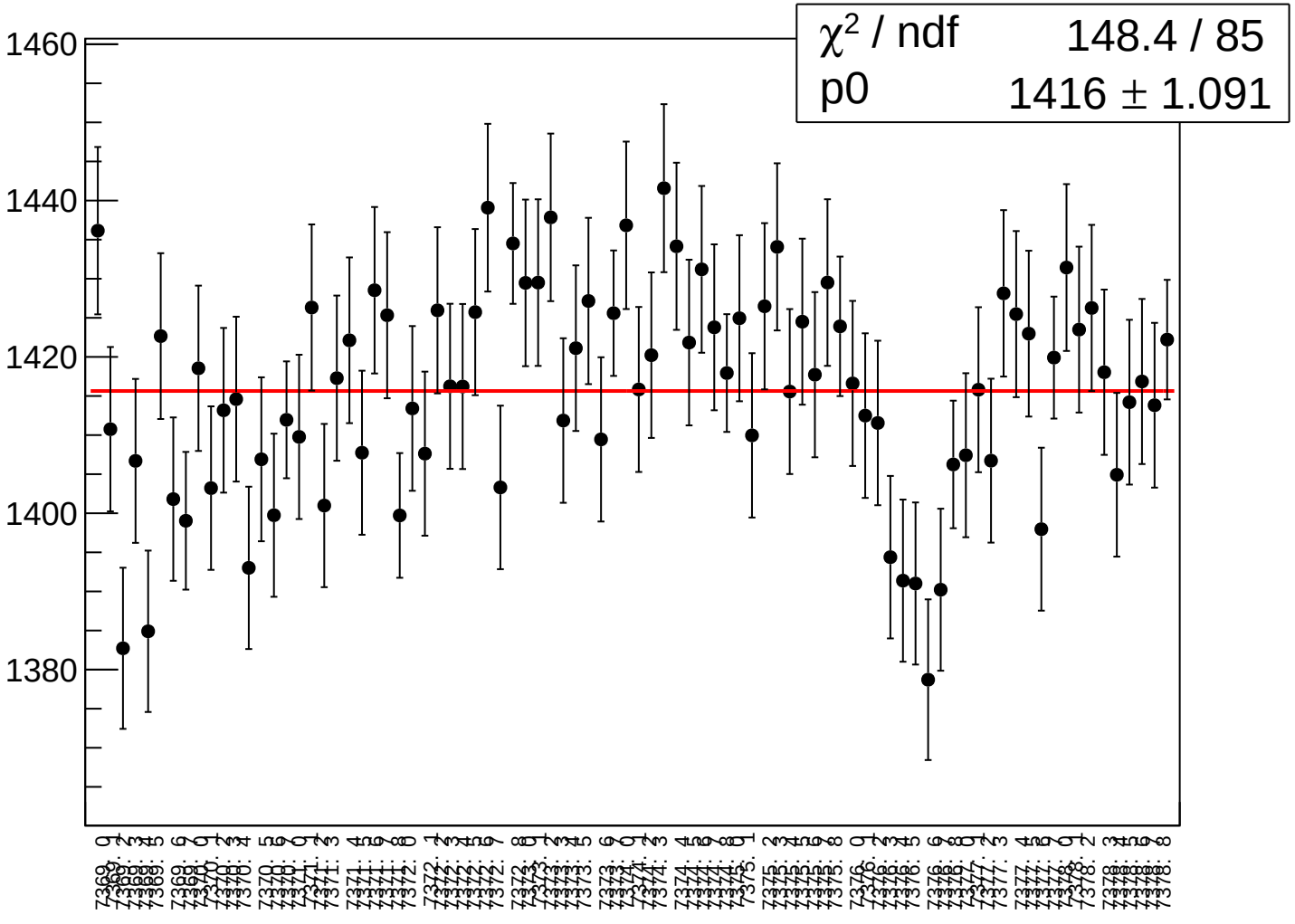

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.57 / 85
p0 −6341 ± 5448
pull
Entries 86
Mean −154.7
Std Dev 0

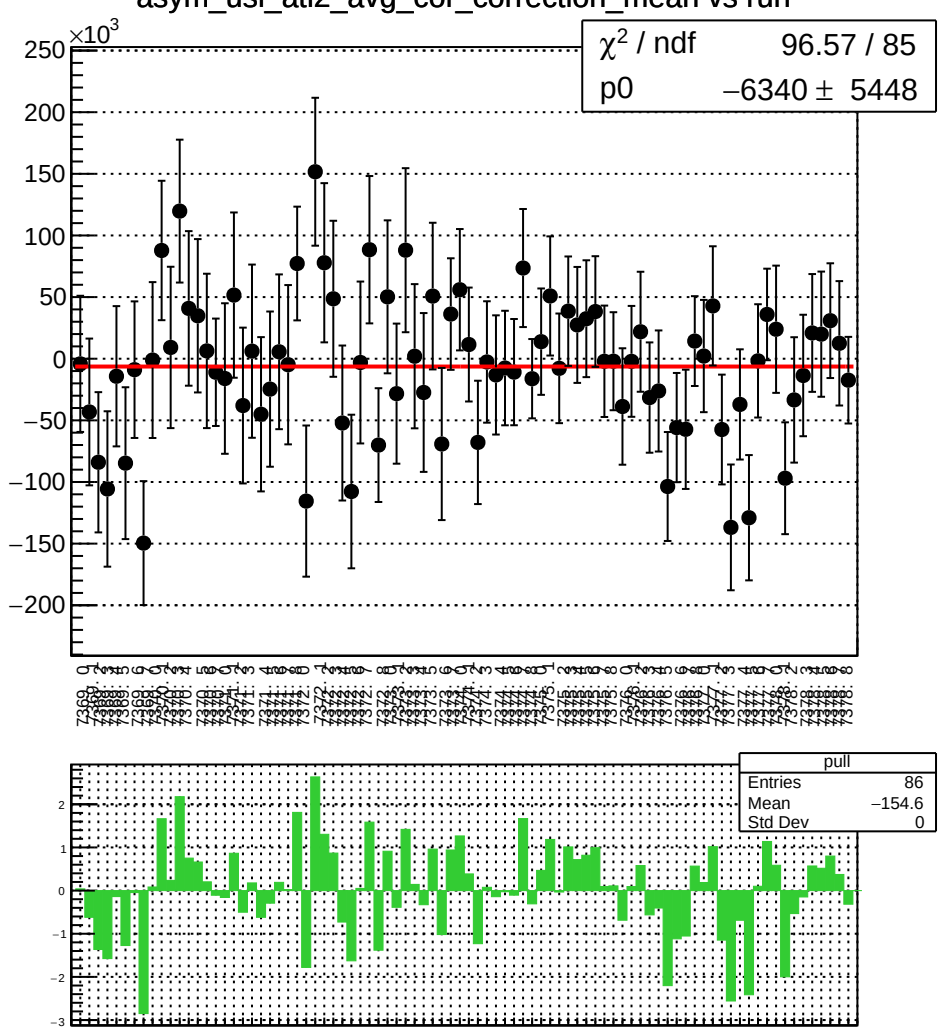

pull1D
Entries 86
Mean 0.00655
Std Dev 1.06

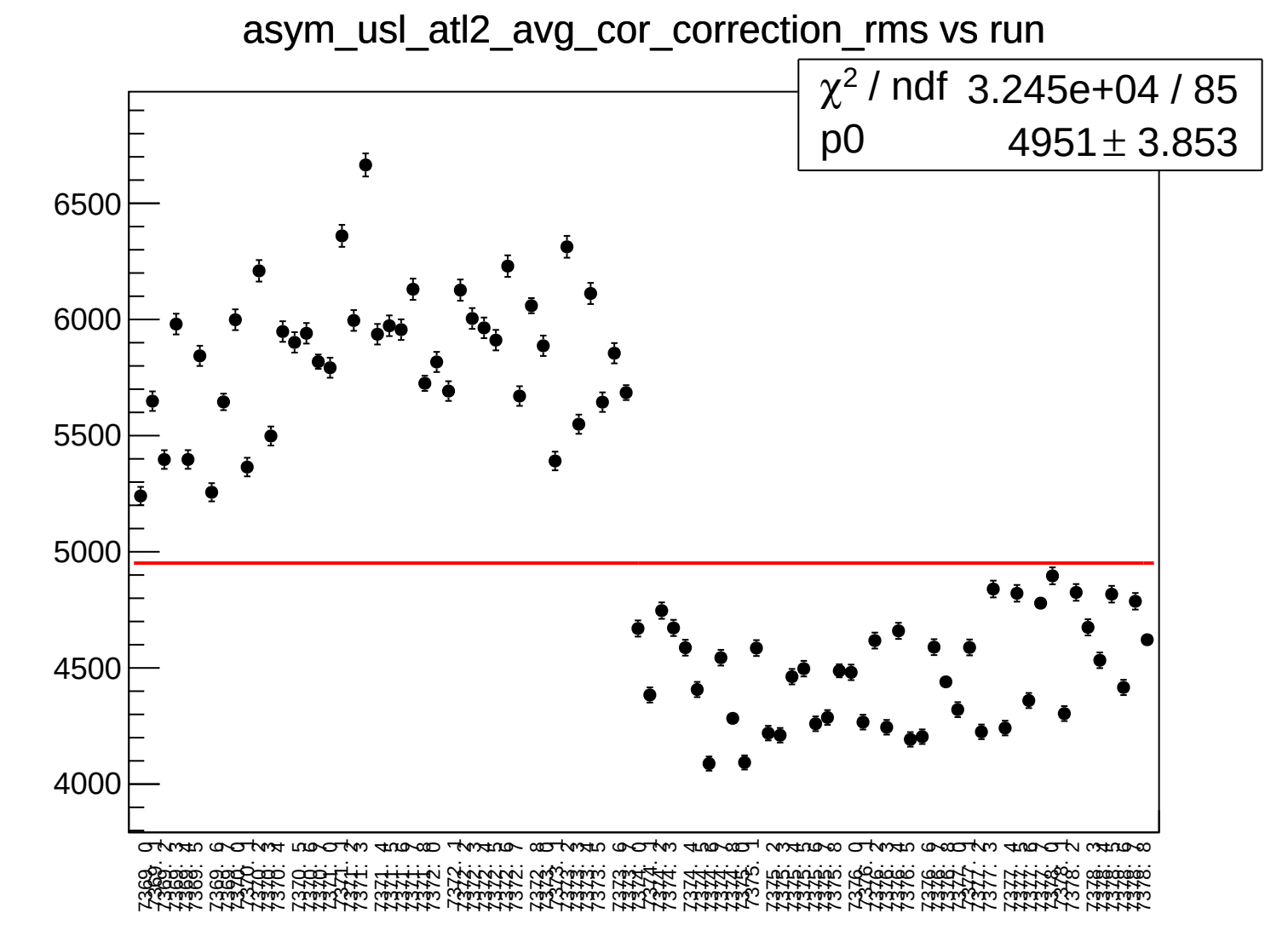

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 3.245e+04 / 85
p0 4951 ± 3.853
6500
6000
5500
5000
4500
4000

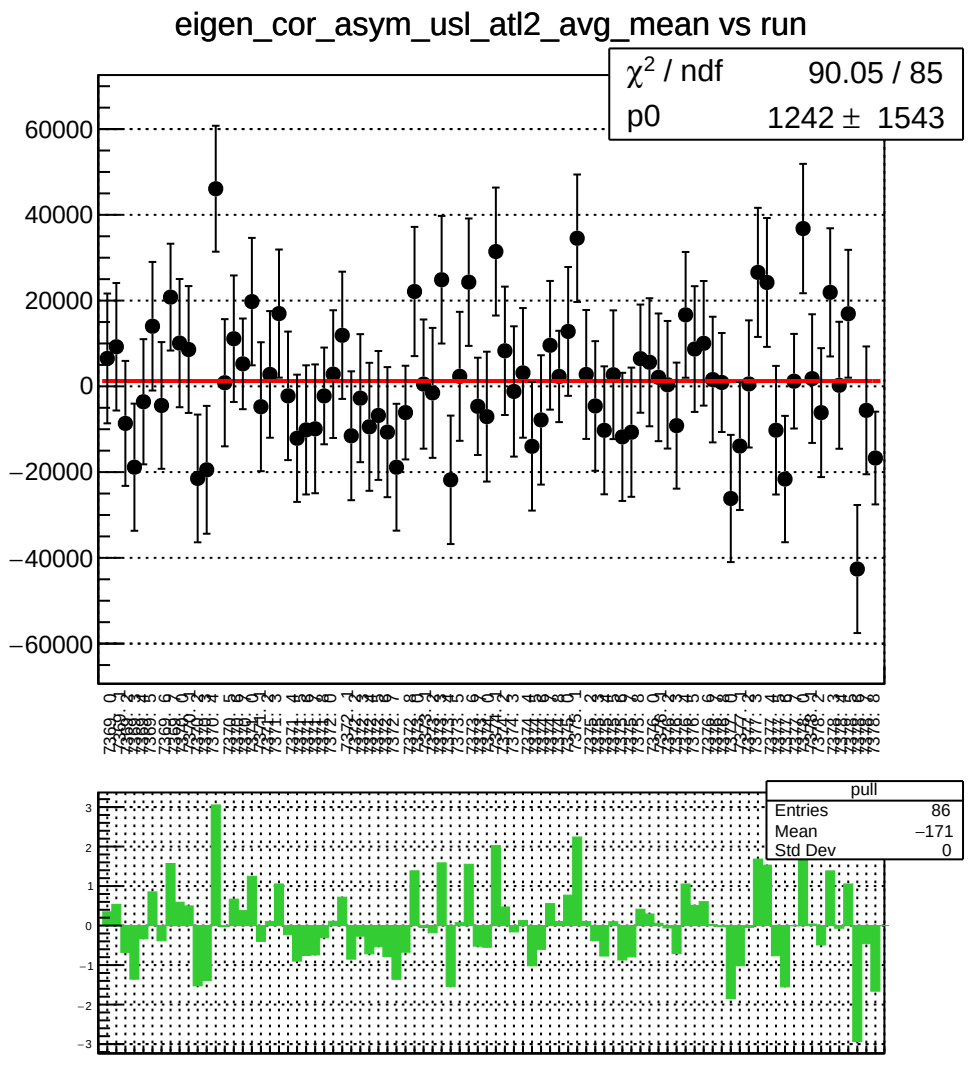

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.05 / 85
p0 1242 ± 1543
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −171
Std Dev 0
3
2
1
0
−1
−2
−3

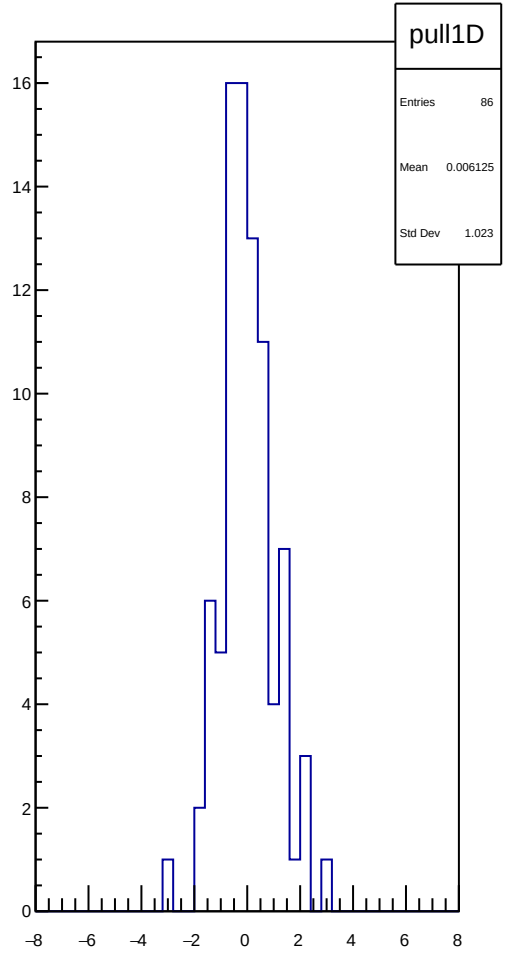

pull1D
Entries 86
Mean 0.006125
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

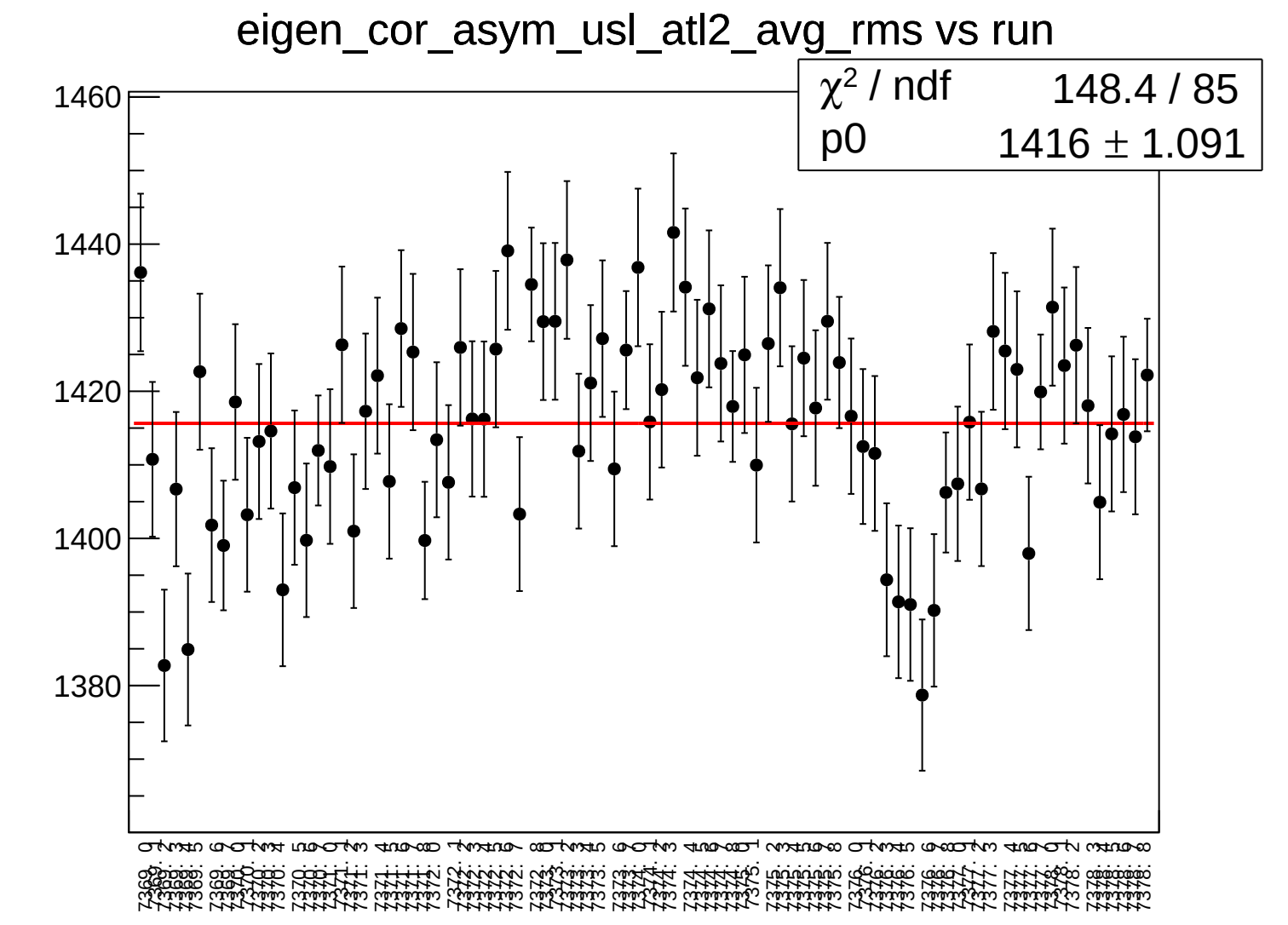

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 148.4 / 85
p0 1416 ± 1.091
1460
1440
1420
1400
1380

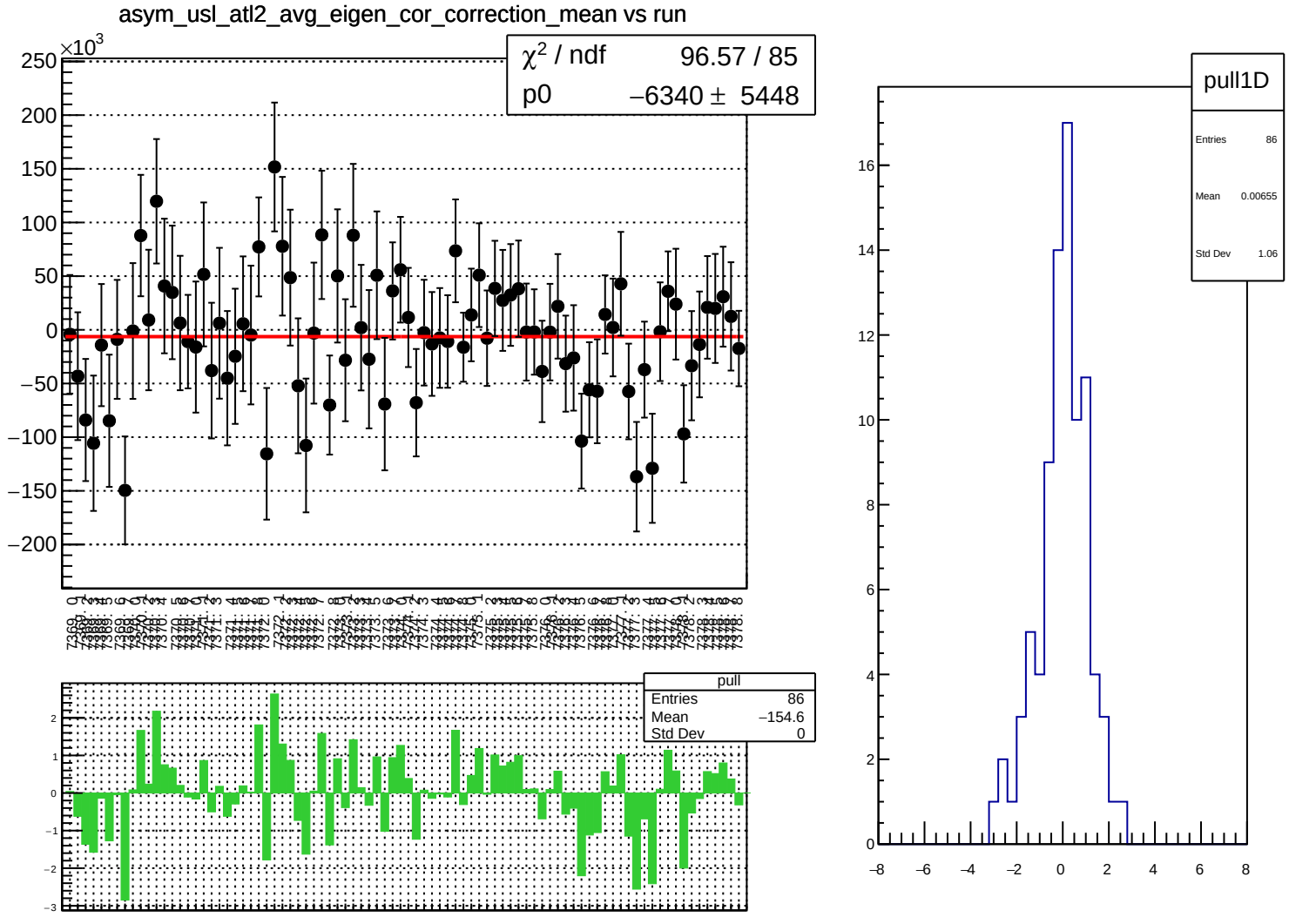

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.57 / 85
p0 −6340 ± 5448
pull
Entries 86
Mean −154.6
Std Dev 0
pull1D
Entries 86
Mean 0.00655
Std Dev 1.06

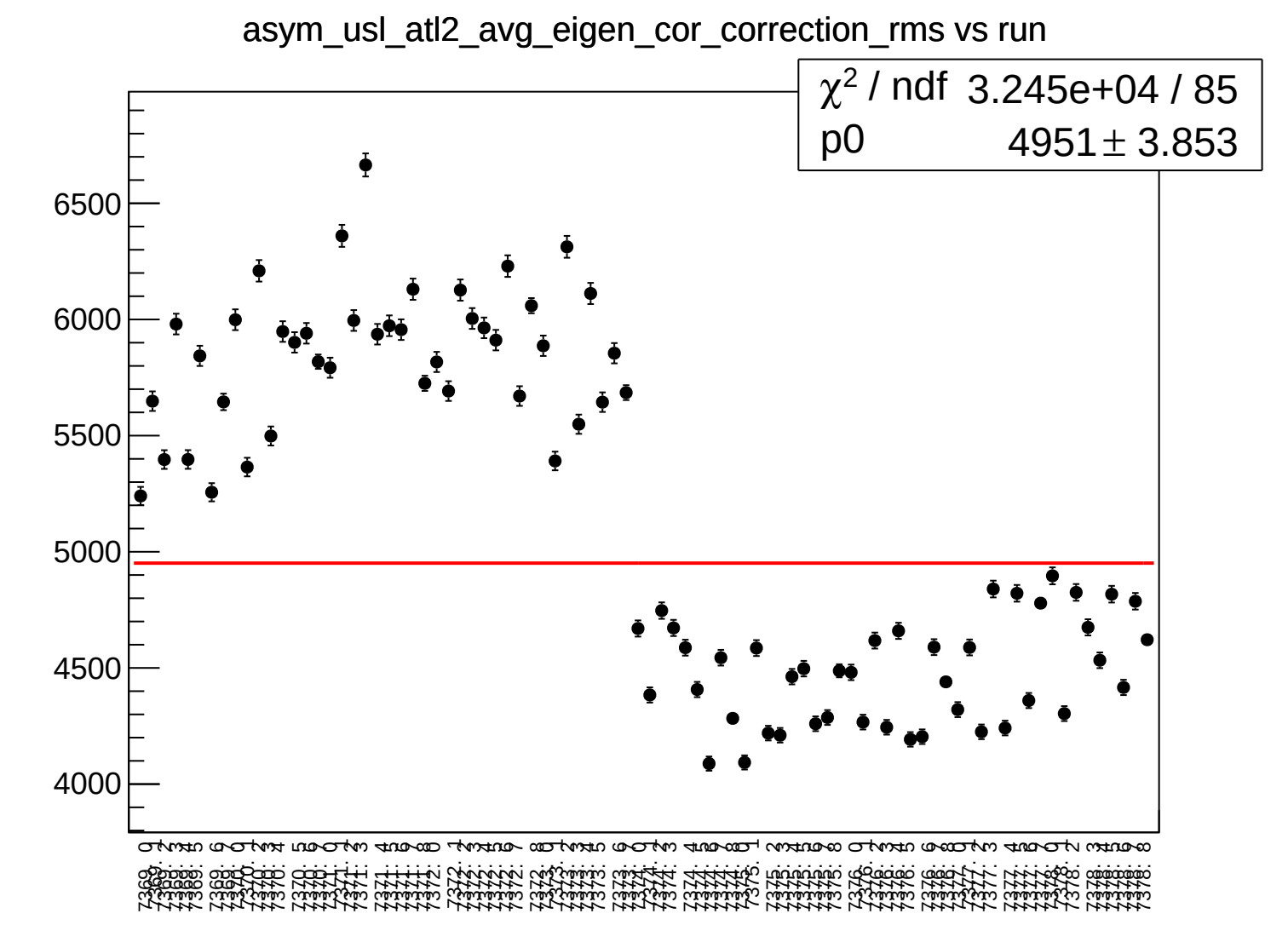

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 3.245e+04 / 85
p0 4951 ± 3.853
6500
6000
5500
5000
4500
4000

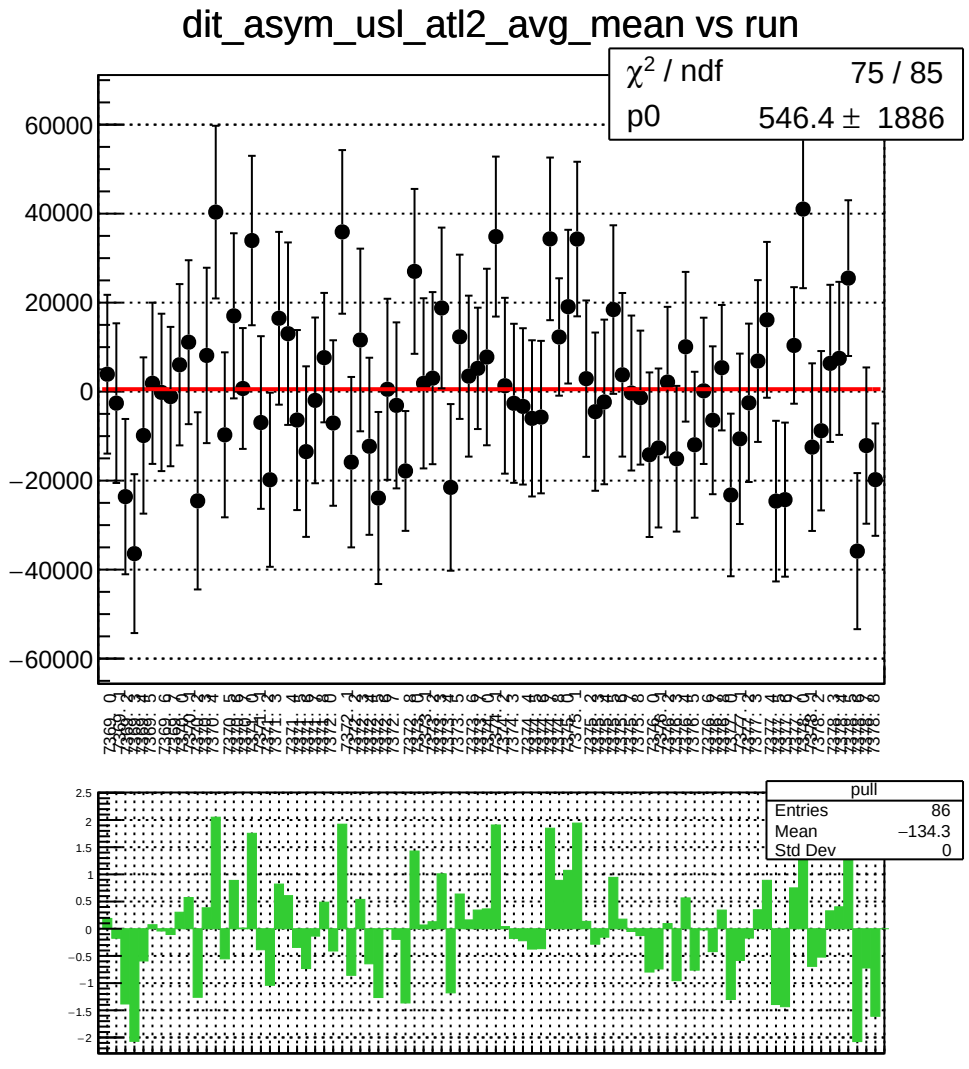

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.05 / 85
p0 1242 ± 1543
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −171
Std Dev 0
3
2
1
0
−1
−2
−3

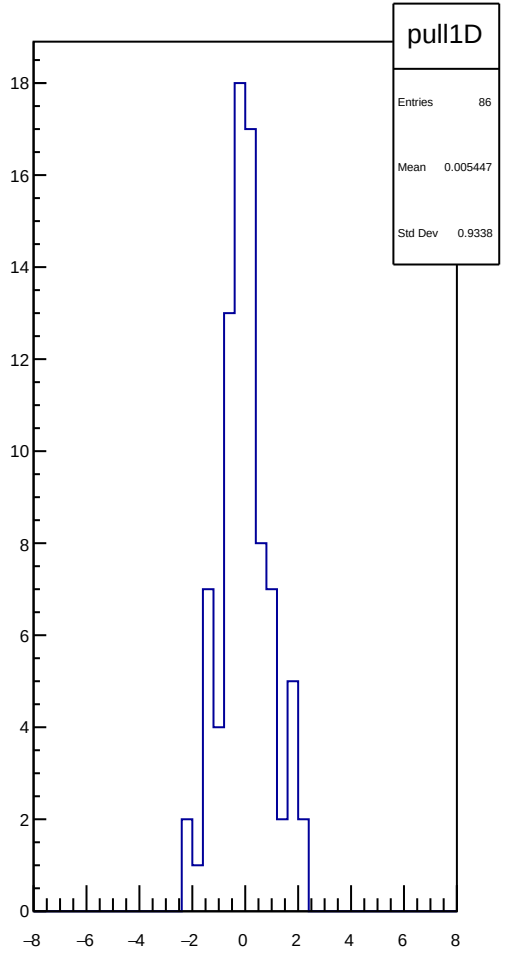

pull1D
Entries 86
Mean 0.006125
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

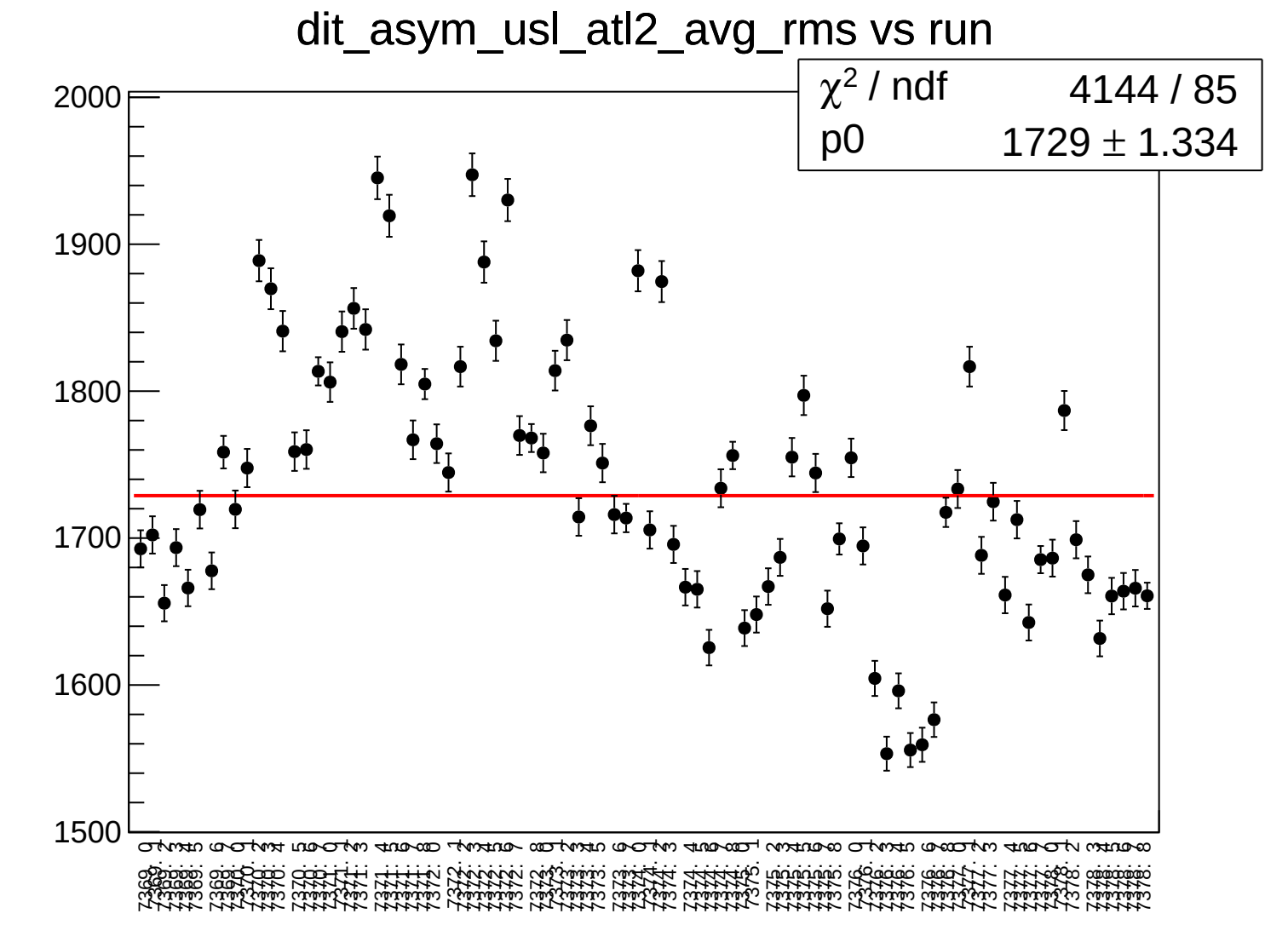

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 148.4 / 85
p0 1416 ± 1.091
1460
1440
1420
1400
1380

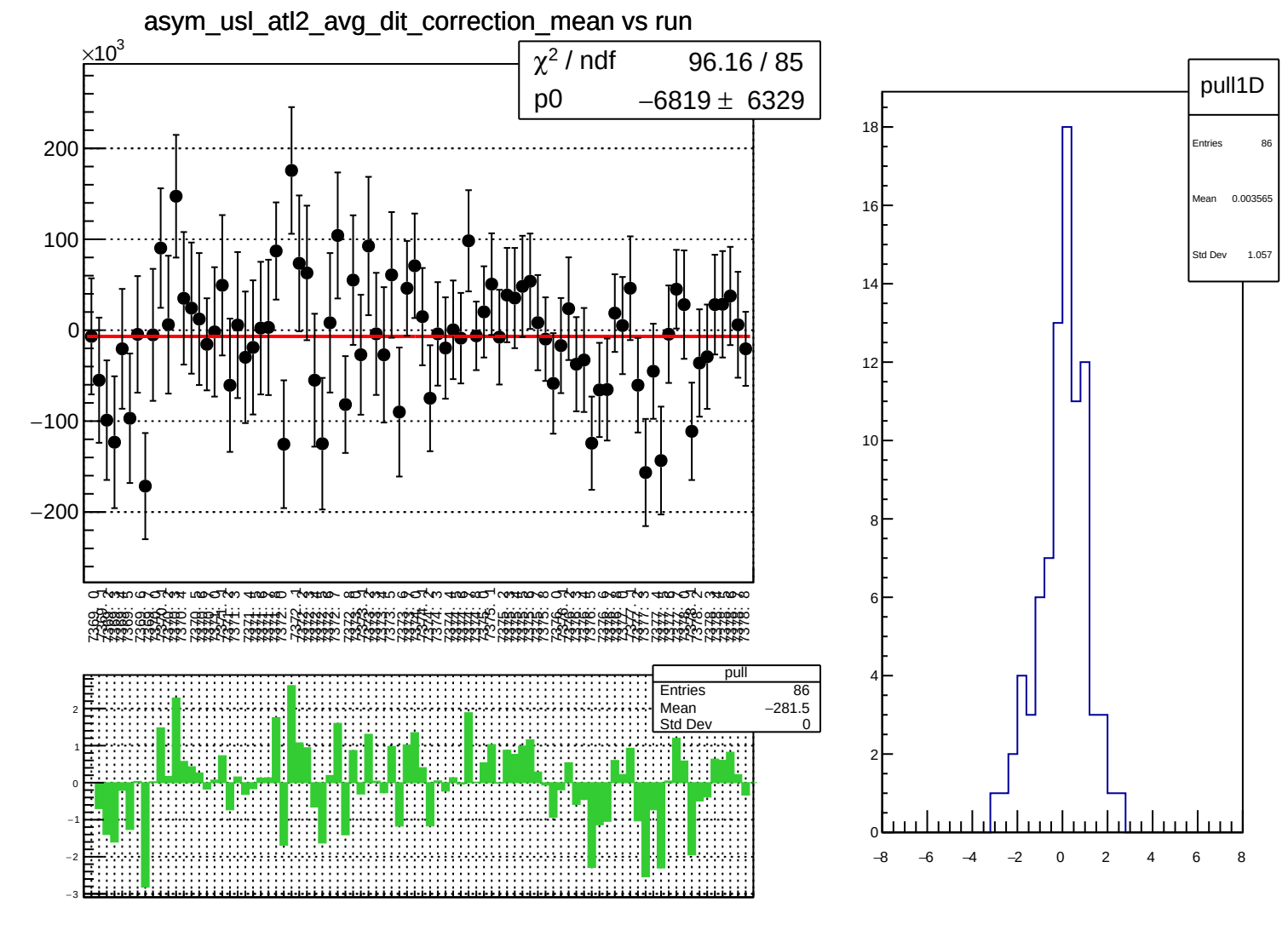

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.57 / 85
p0 −6340 ± 5448
×10³
pull
Entries 86
Mean −154.6
Std Dev 0
pull1D
Entries 86
Mean 0.00655
Std Dev 1.06

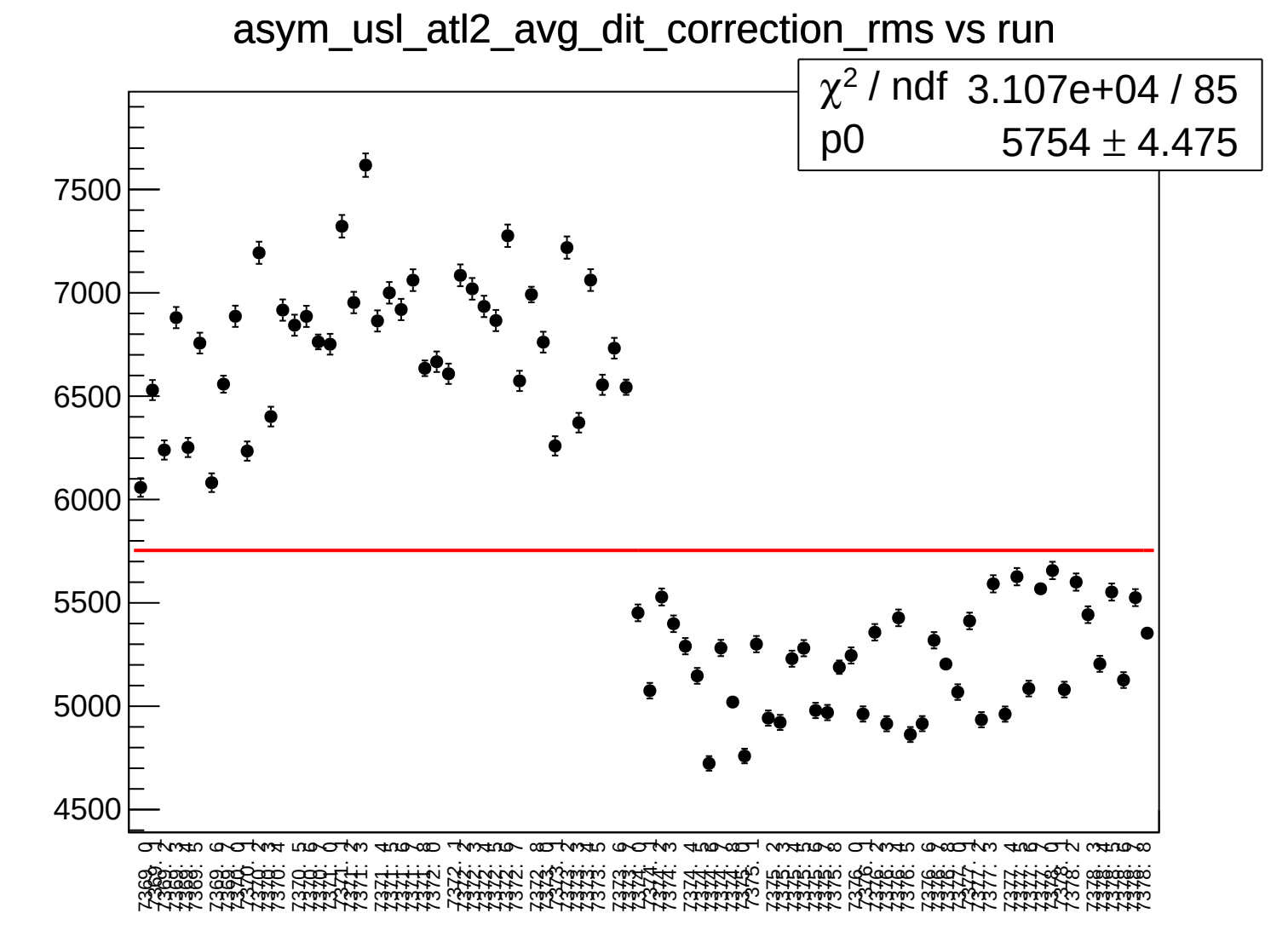

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.245e+04 / 85
p0 4951 ± 3.853
6500
6000
5500
5000
4500
4000

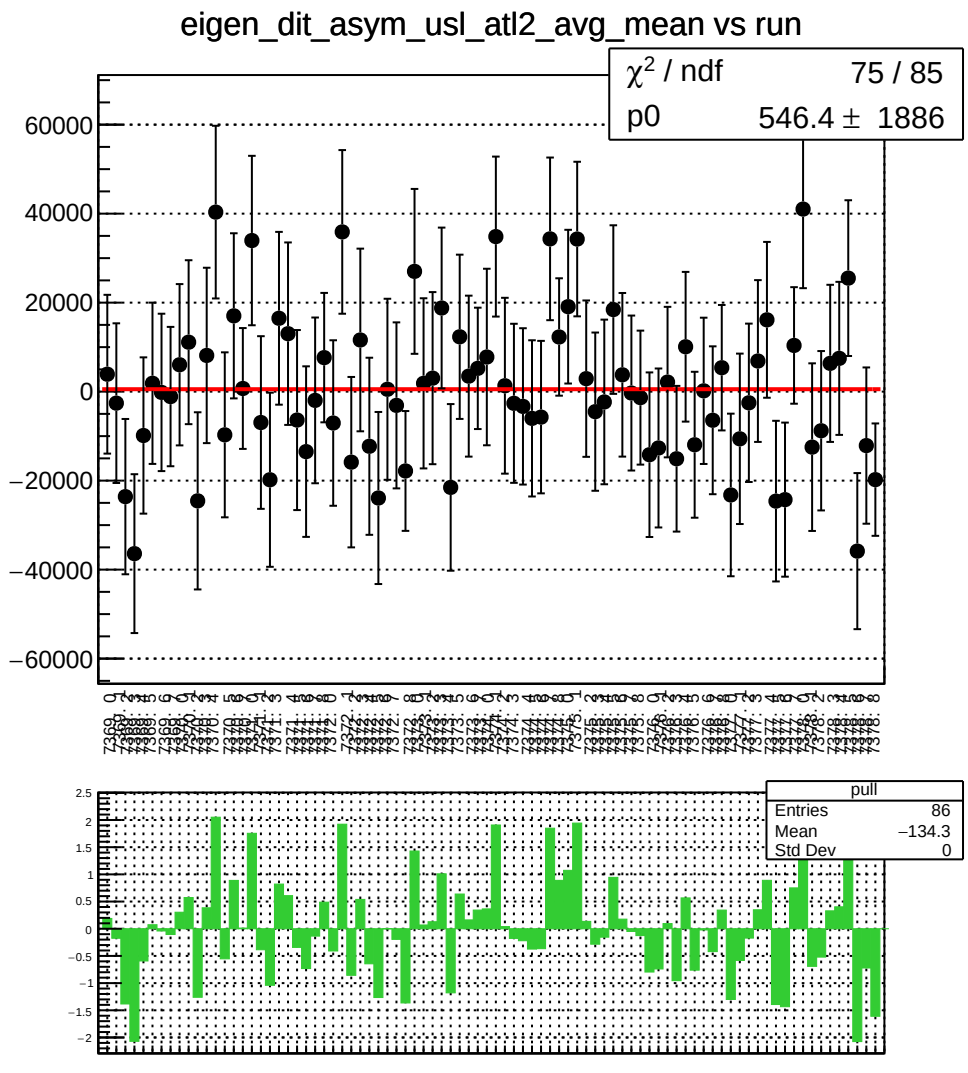

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 75 / 85
p0 546.4 ± 1886
pull
Entries 86
Mean −134.3
Std Dev 0

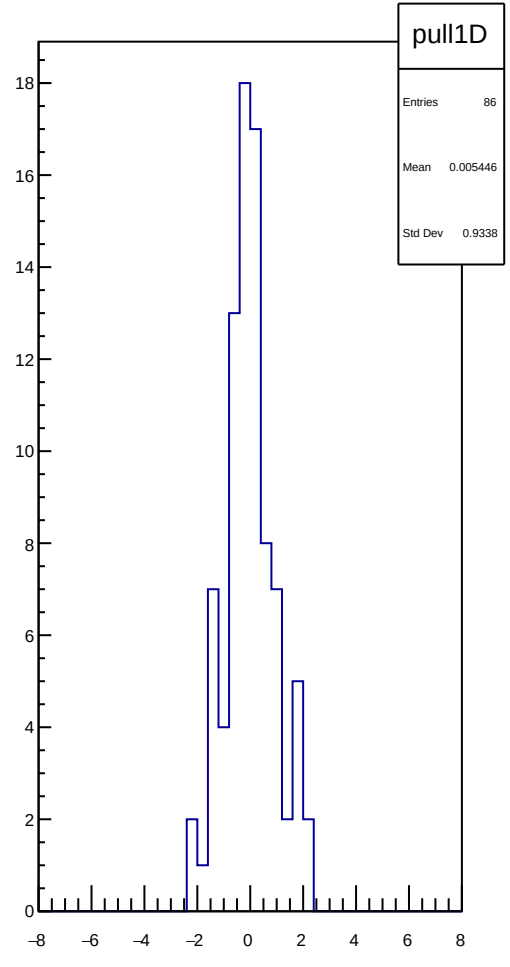

pull1D
Entries 86
Mean 0.005447
Std Dev 0.9338

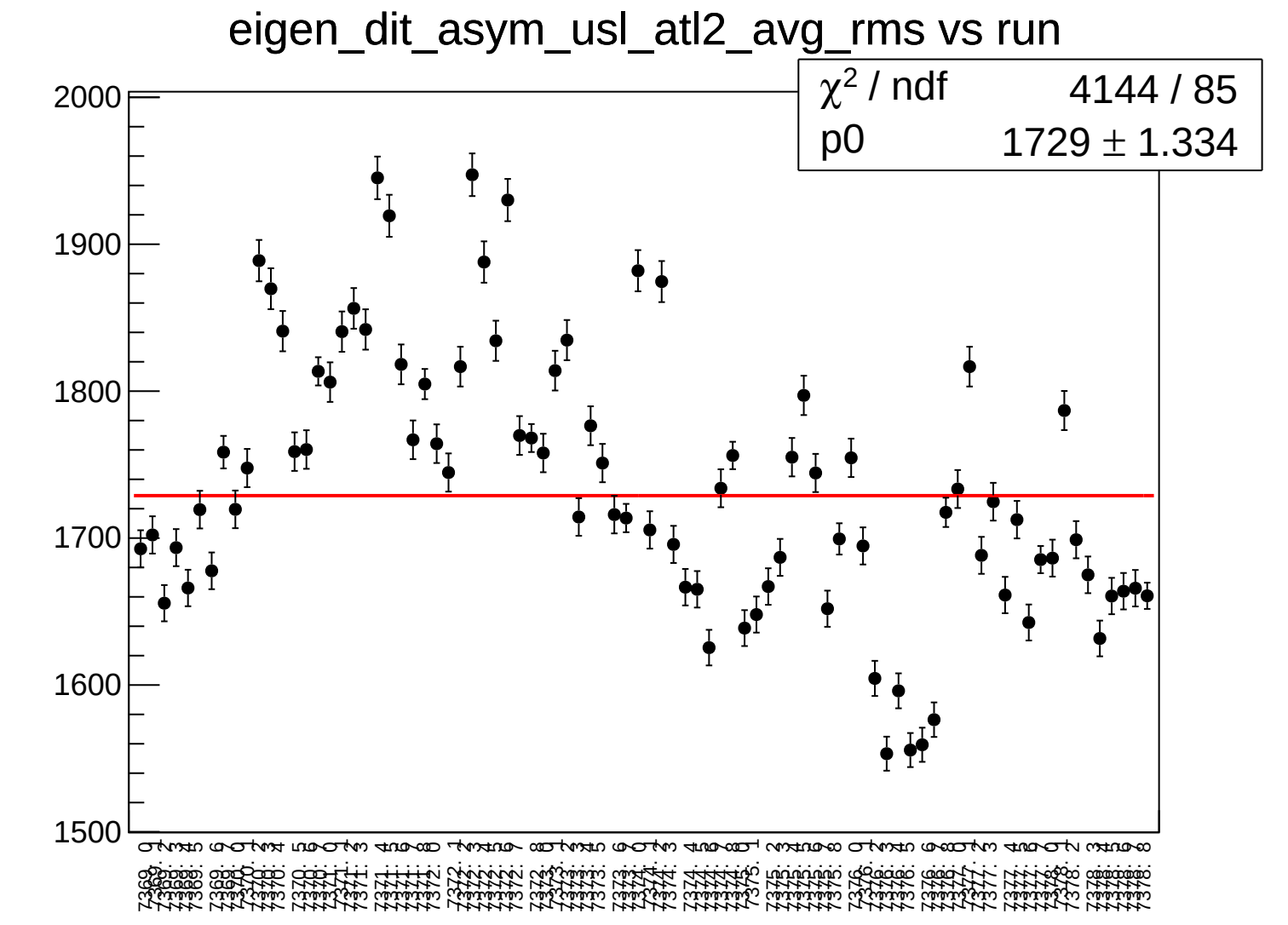

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 4144 / 85
p0 1729 ± 1.334
2000
1900
1800
1700
1600
1500

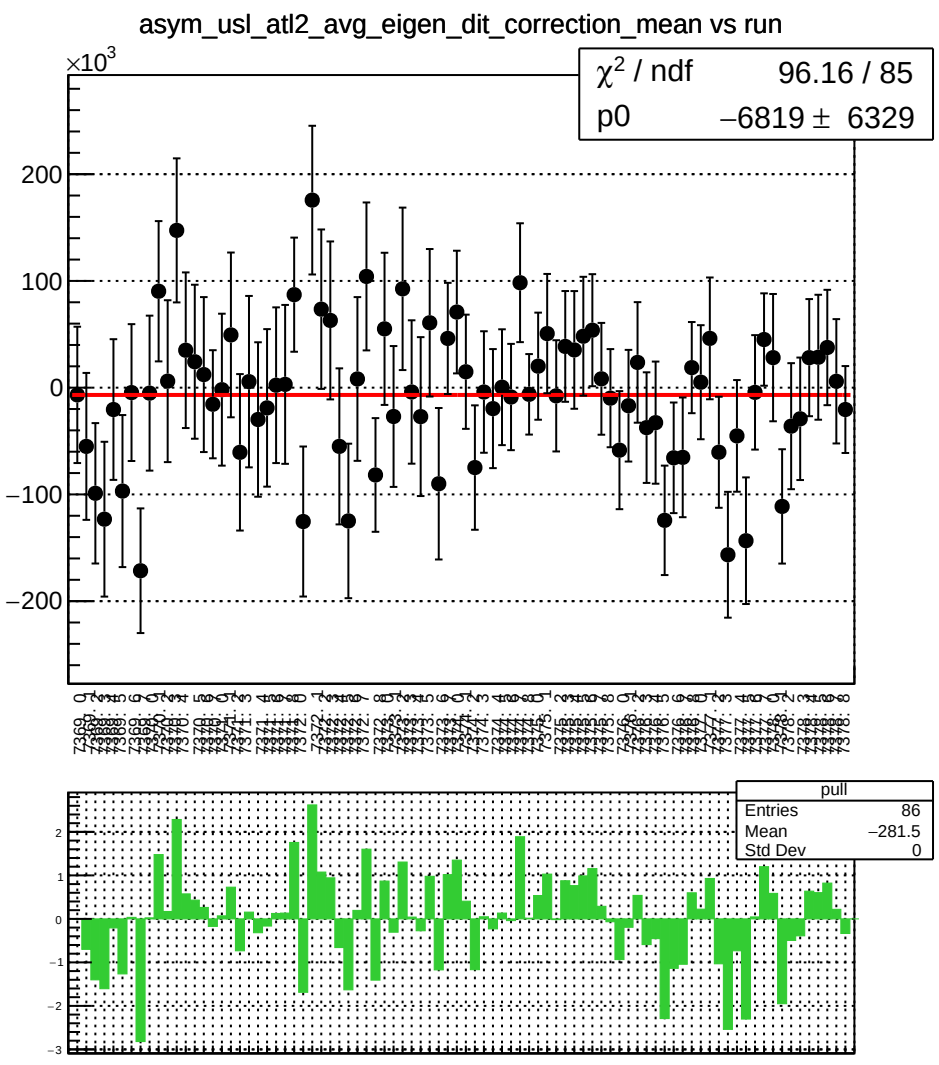

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.16 / 85
p0 −6819 ± 6329
200
100
0
−100
−200
pull
Entries 86
Mean −281.5
Std Dev 0
pull1D
Entries 86
Mean 0.003565
Std Dev 1.057

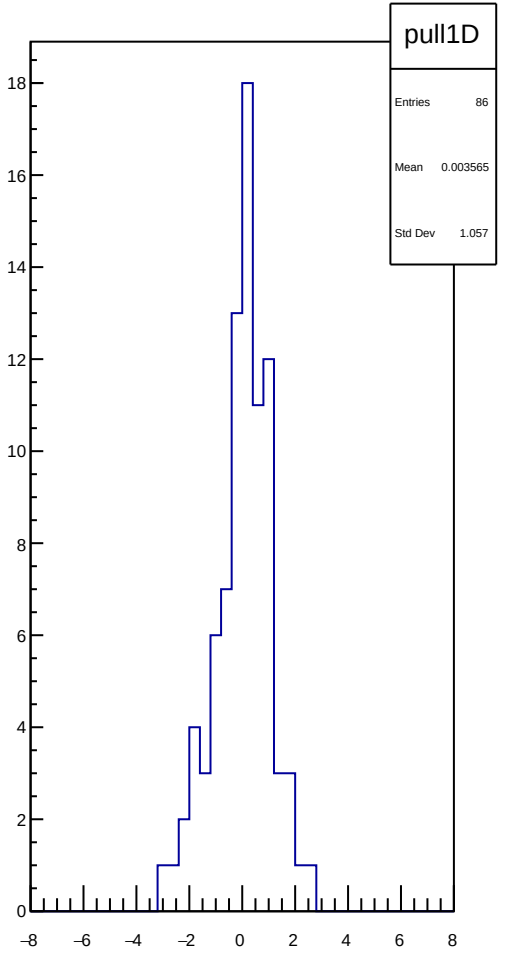

asym_usl_atl2_avg_dit_correction_rms vs run
χ^2 / ndf 3.107e+04 / 85
p0 5754 ± 4.475
7500
7000
6500
6000
5500
5000
4500

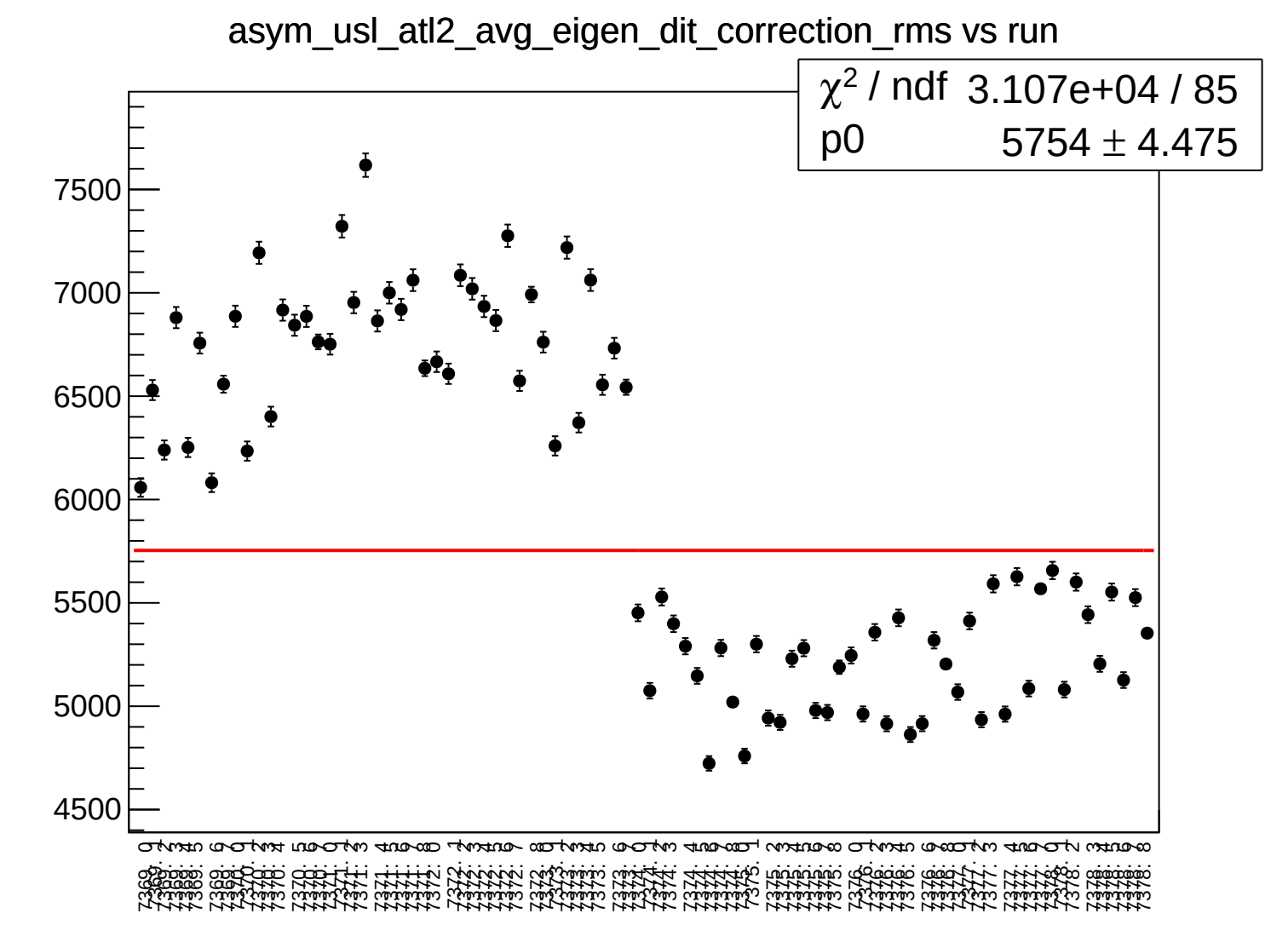

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 75 / 85
p0 546.4 ± 1886
pull
Entries 86
Mean −134.3
Std Dev 0

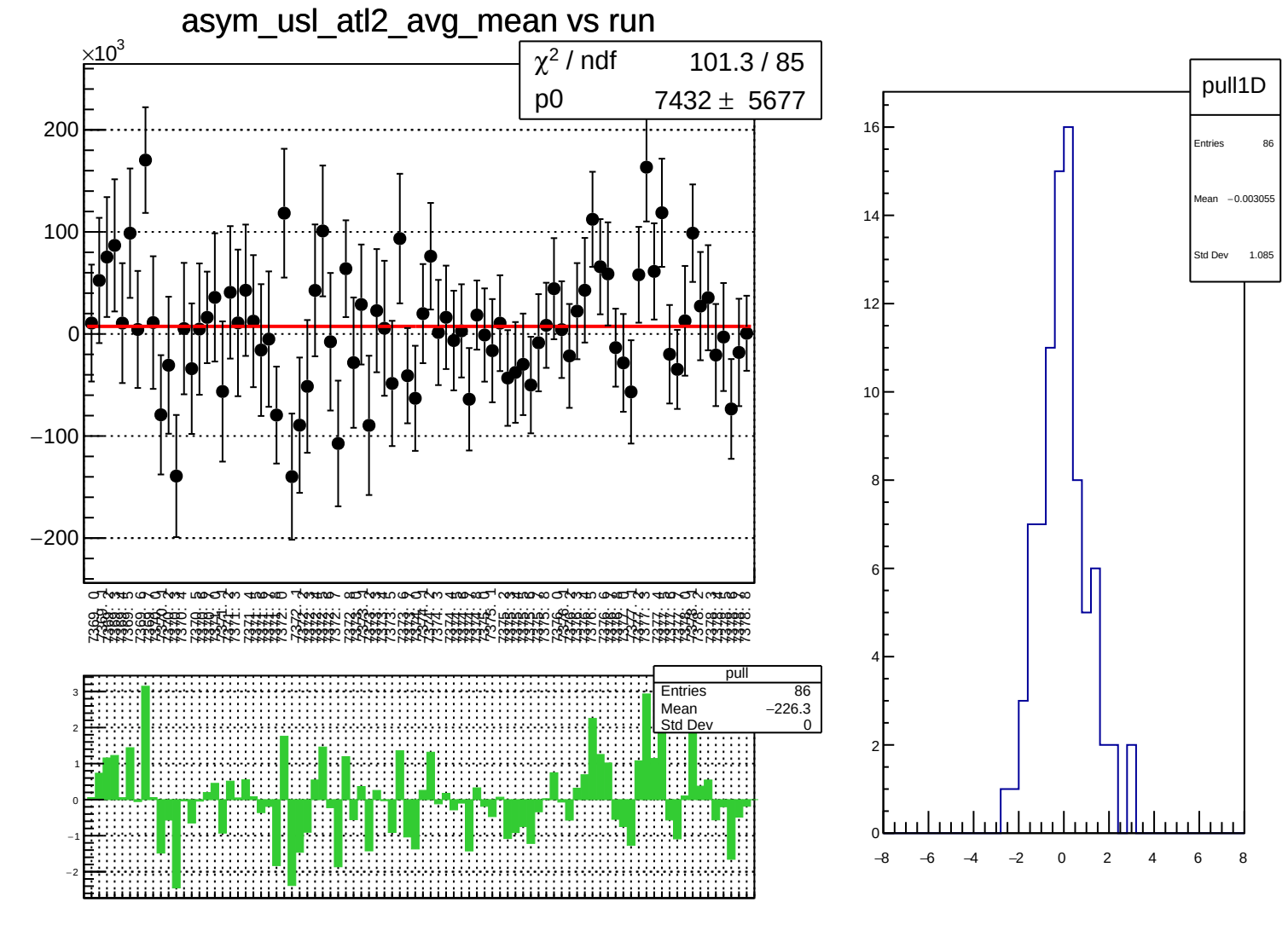

pull1D
Entries 86
Mean 0.005446
Std Dev 0.9338

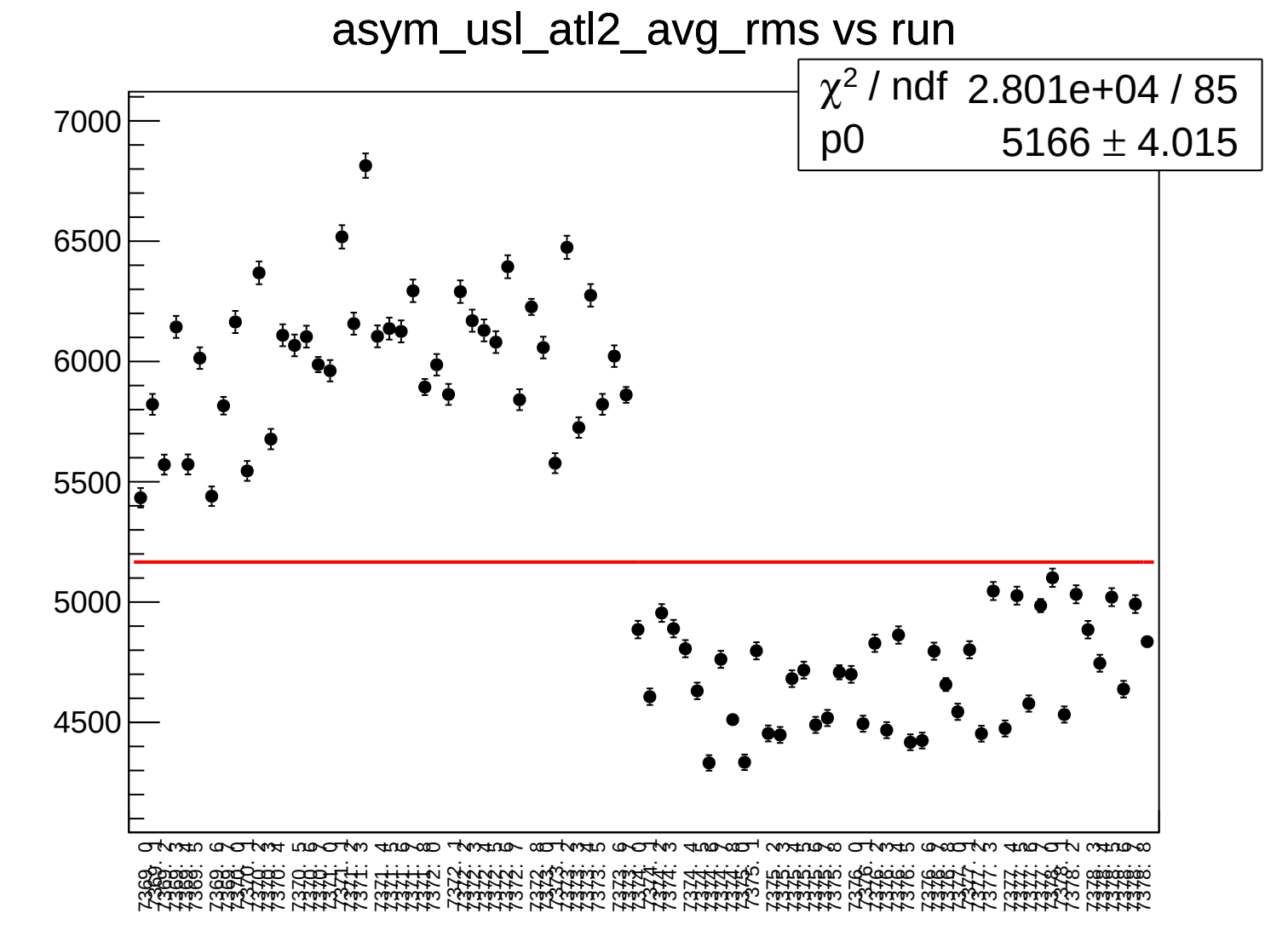

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 4144 / 85
p0 1729 ± 1.334
2000
1900
1800
1700
1600
1500

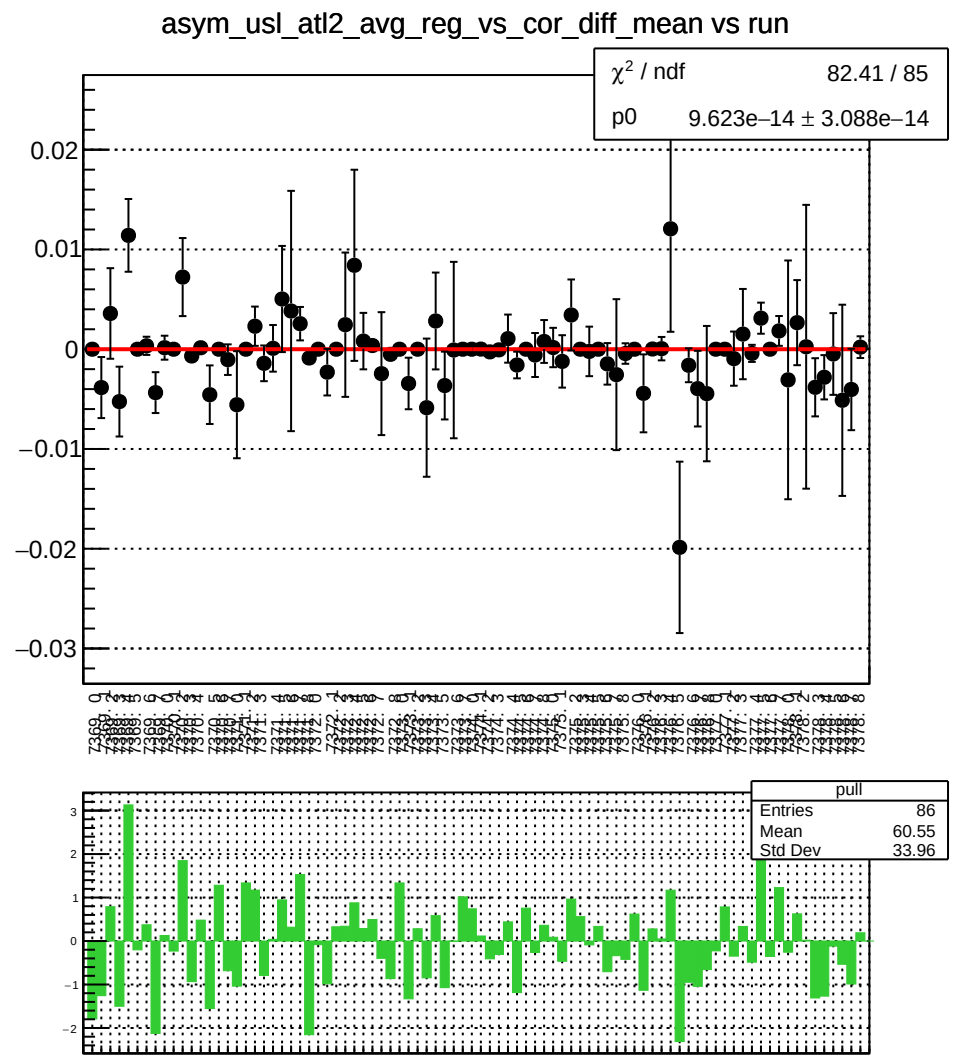

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.16 / 85
p0 −6819 ± 6329
200
100
0
−100
−200
pull
Entries 86
Mean −281.5
Std Dev 0
2
1
0
−1
−2
−3

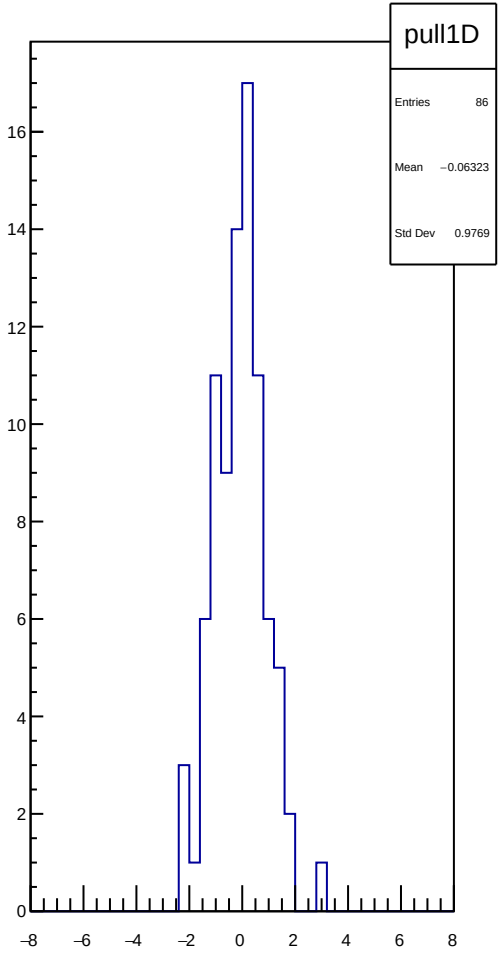

pull1D
Entries 86
Mean 0.003565
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

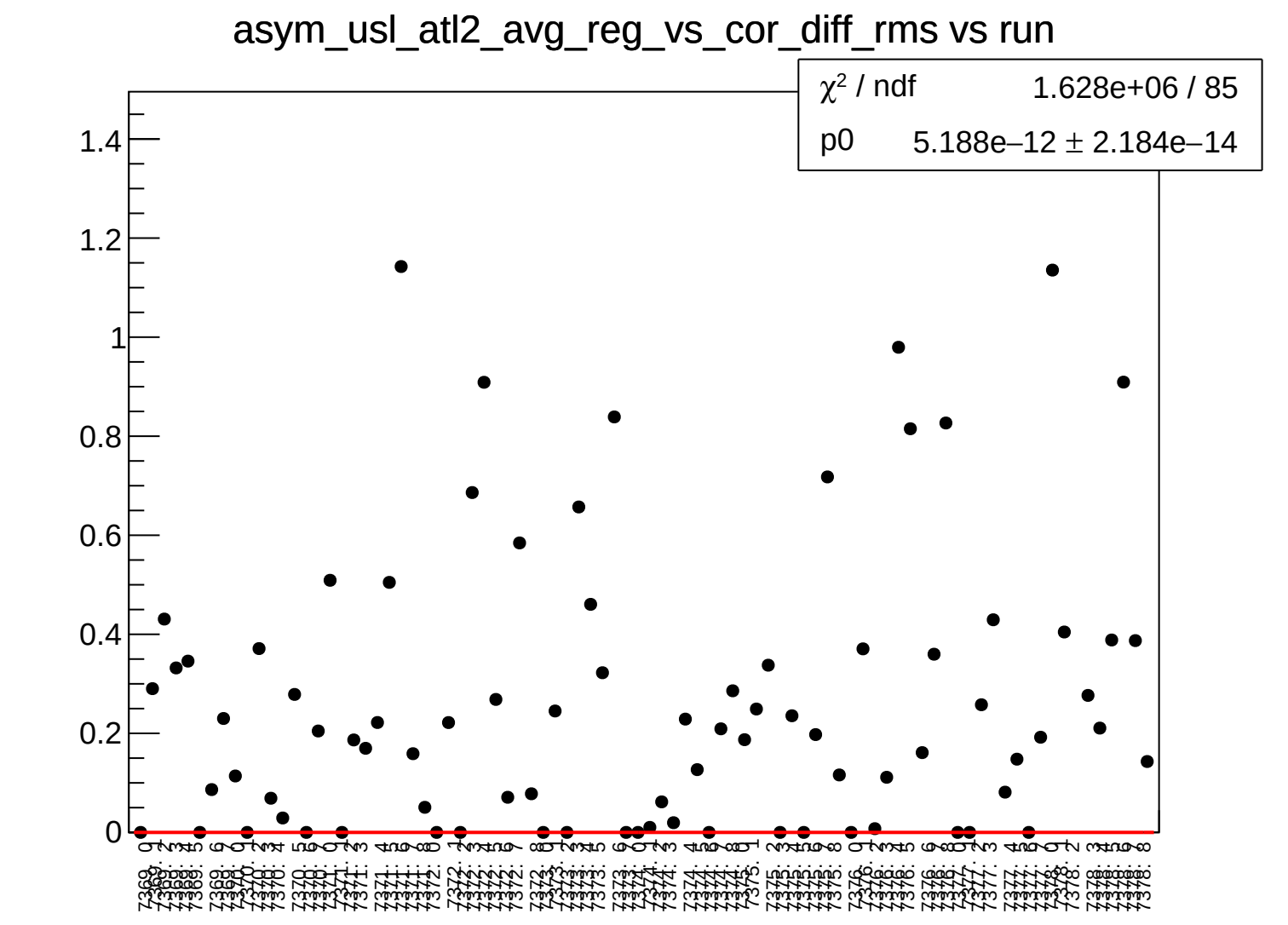

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.107e+04 / 85
p0 5754 ± 4.475
7500
7000
6500
6000
5500
5000
4500

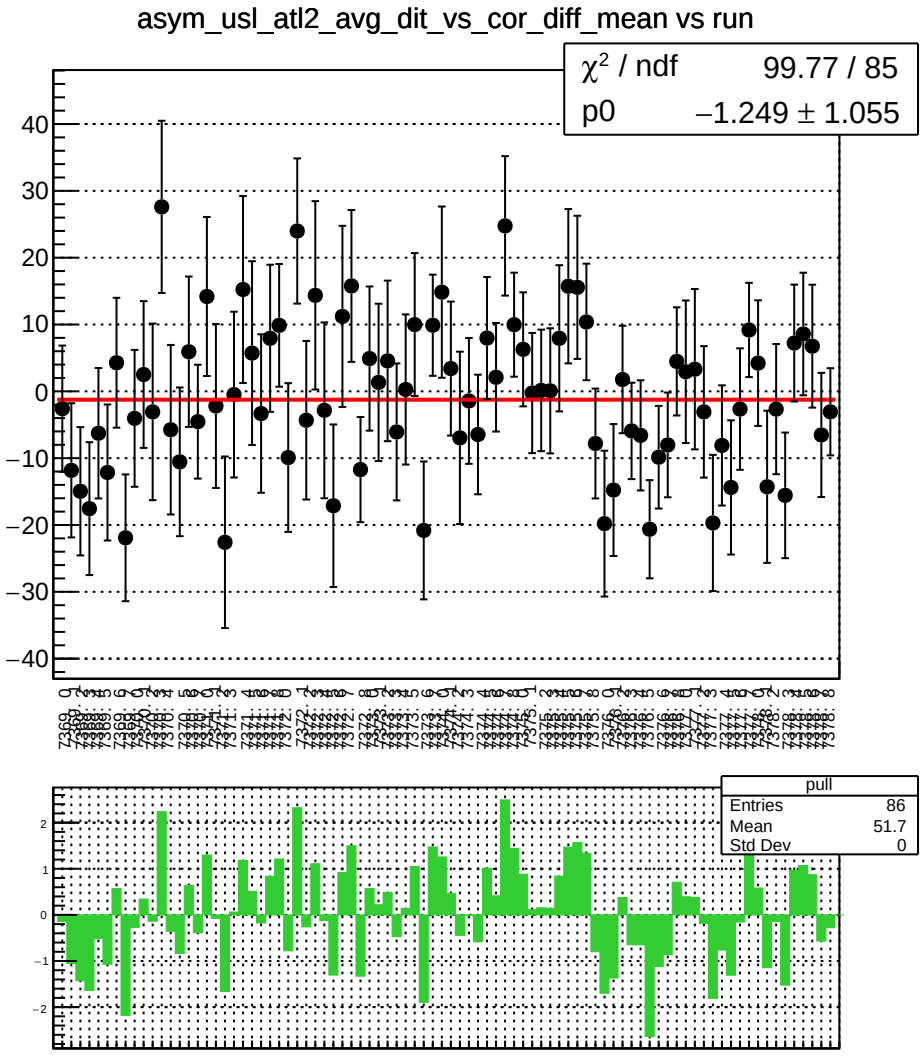

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 101.3 / 85
p0 7432 ± 5677
200
100
0
−100
−200
pull
Entries 86
Mean −226.3
Std Dev 0
pull1D
Entries 86
Mean −0.003055
Std Dev 1.085

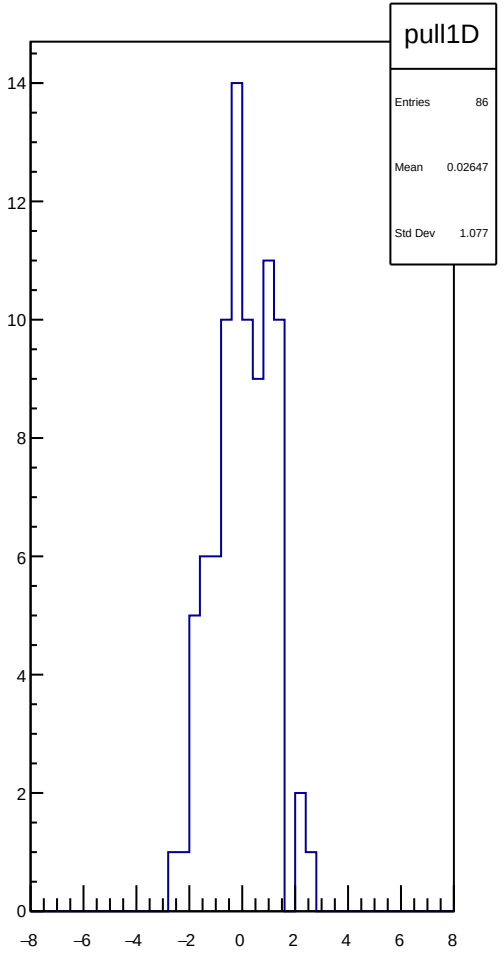

asym_usl_atl2_avg_rms vs run
χ^2 / ndf 2.801e+04 / 85
p0 5166 ± 4.015
7000
6500
6000
5500
5000
4500

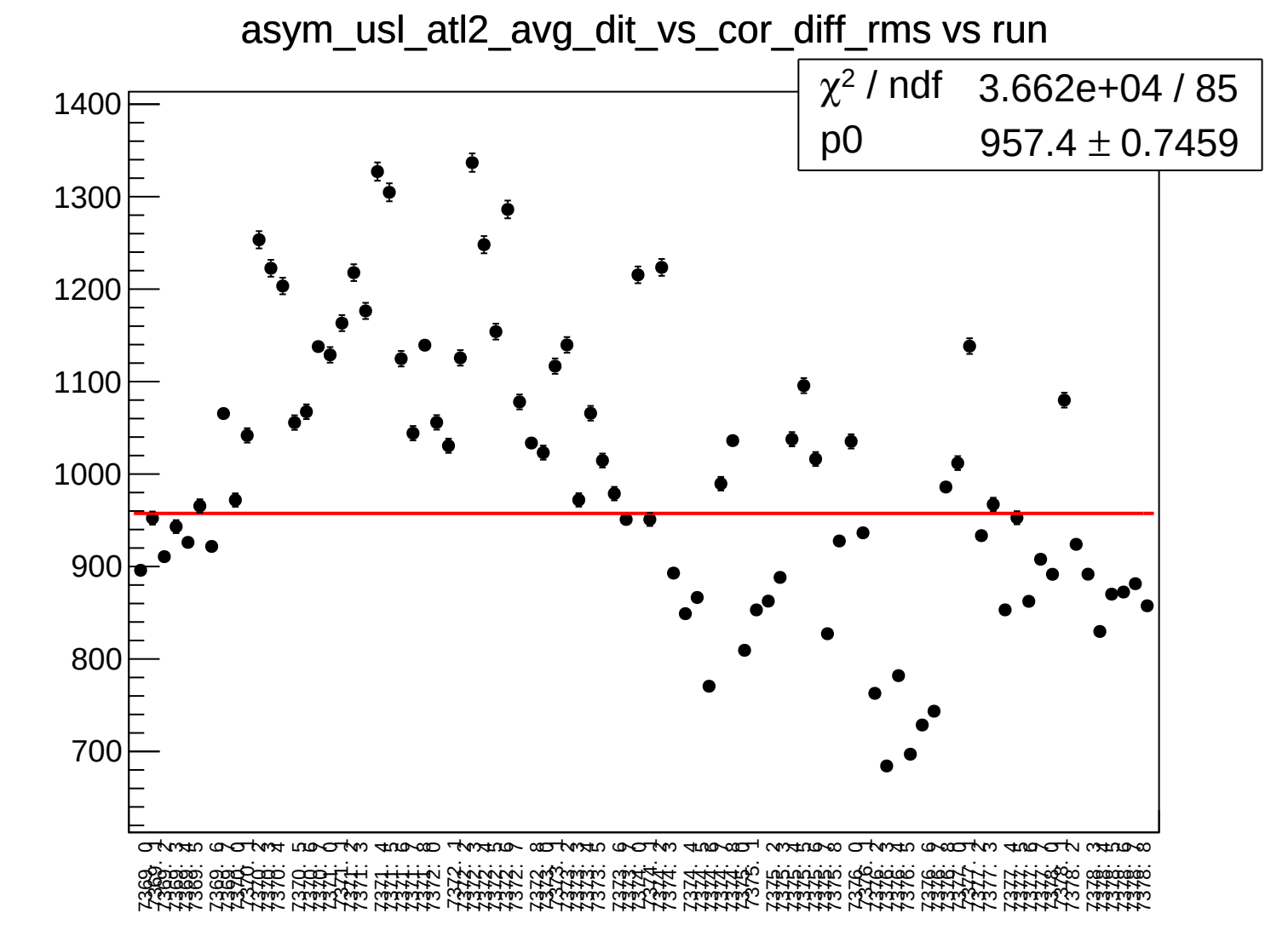

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.41 / 85
p0 9.623e−14 ± 3.088e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 60.55
Std Dev 33.96
3
2
1
0
−1
−2

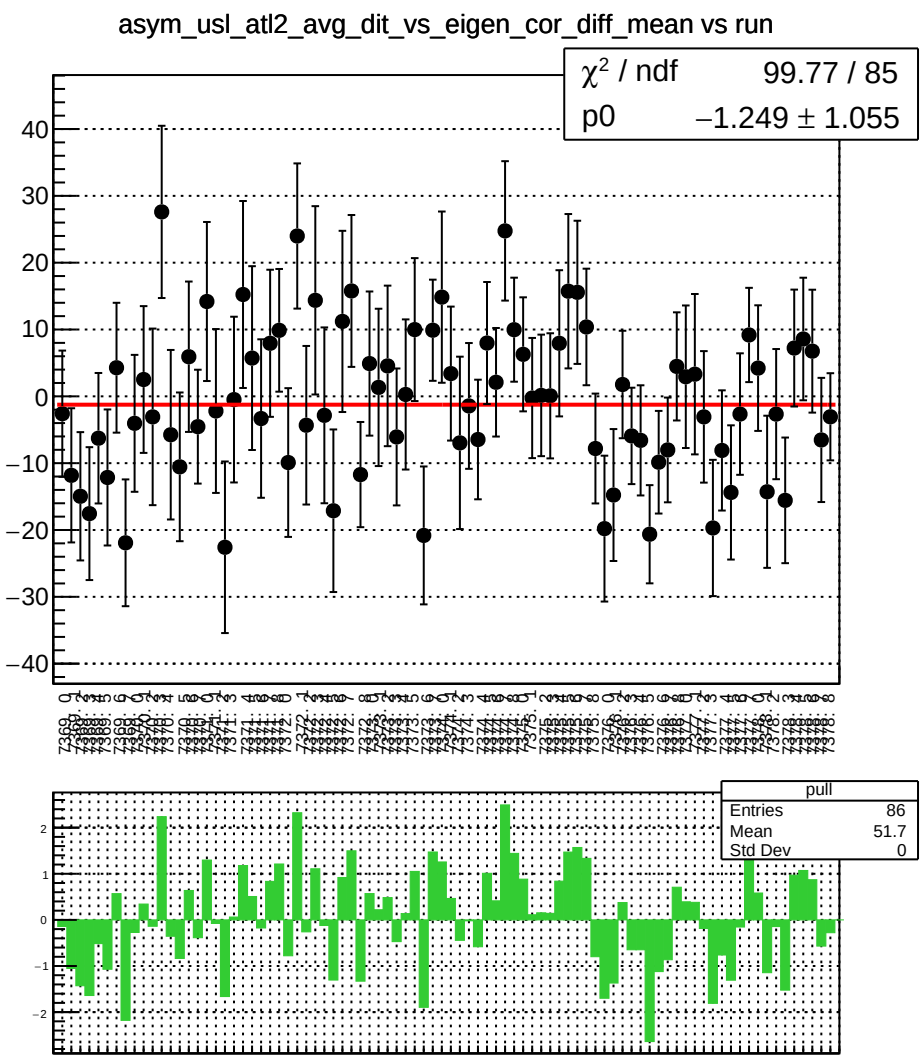

pull1D
Entries 86
Mean −0.06323
Std Dev 0.9769
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

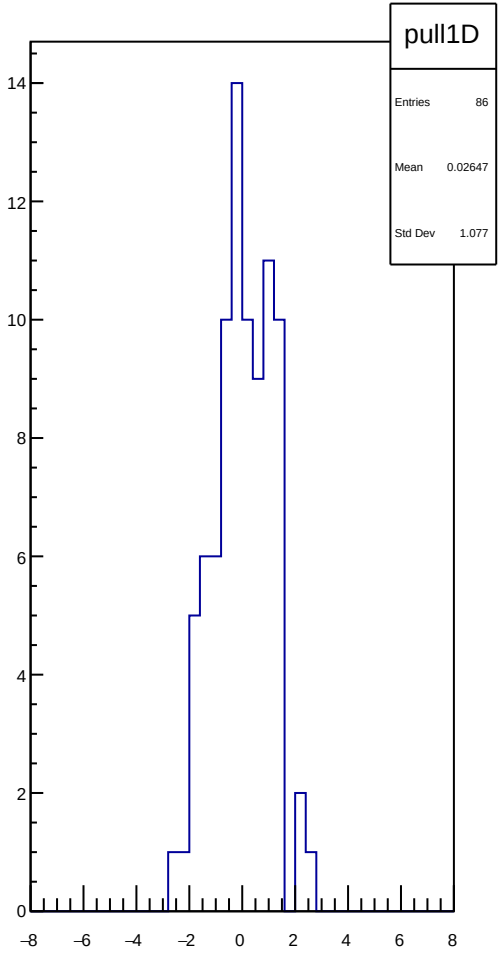

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.628e+06 / 85
p0 5.188e−12 ± 2.184e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

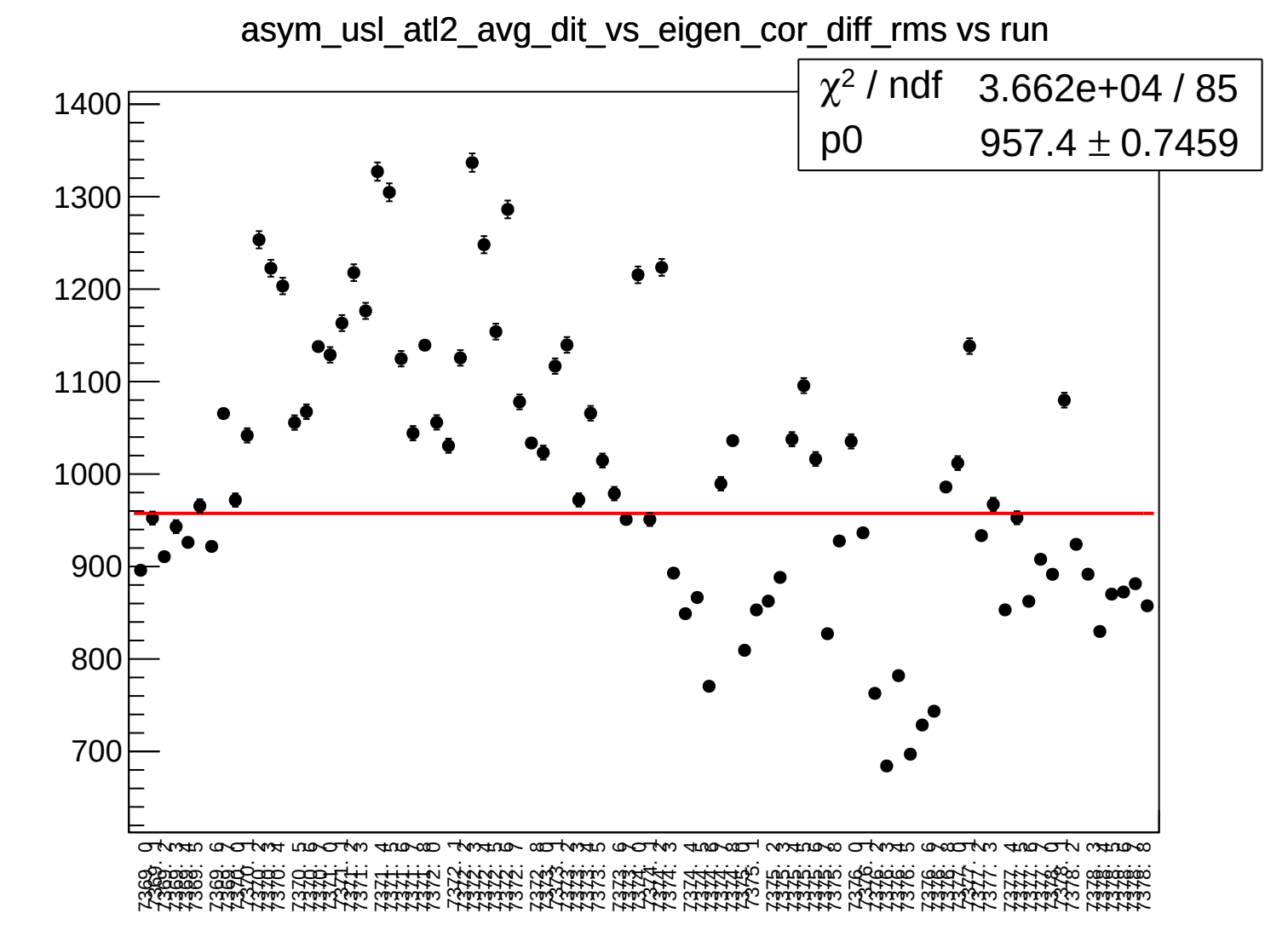

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.77 / 85
p0 −1.249 ± 1.055
pull
Entries 86
Mean 51.7
Std Dev 0

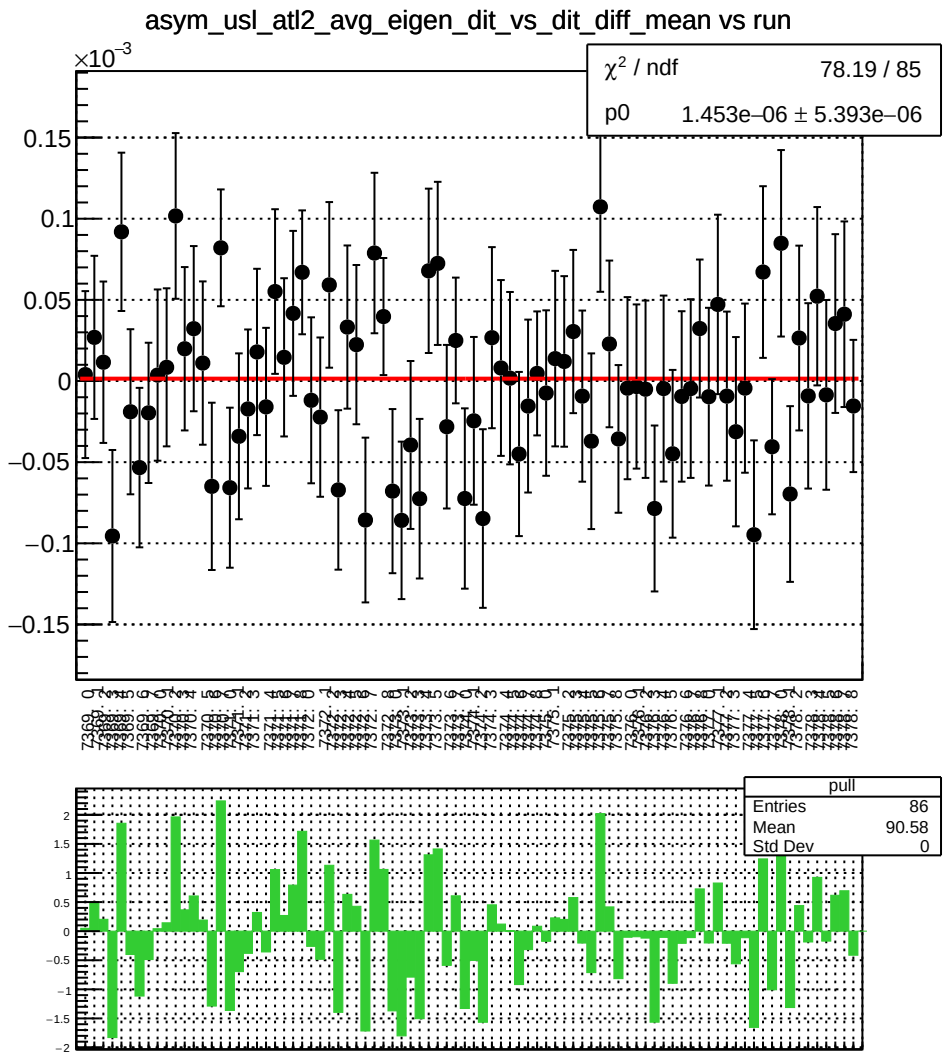

pull1D
Entries 86
Mean 0.02647
Std Dev 1.077

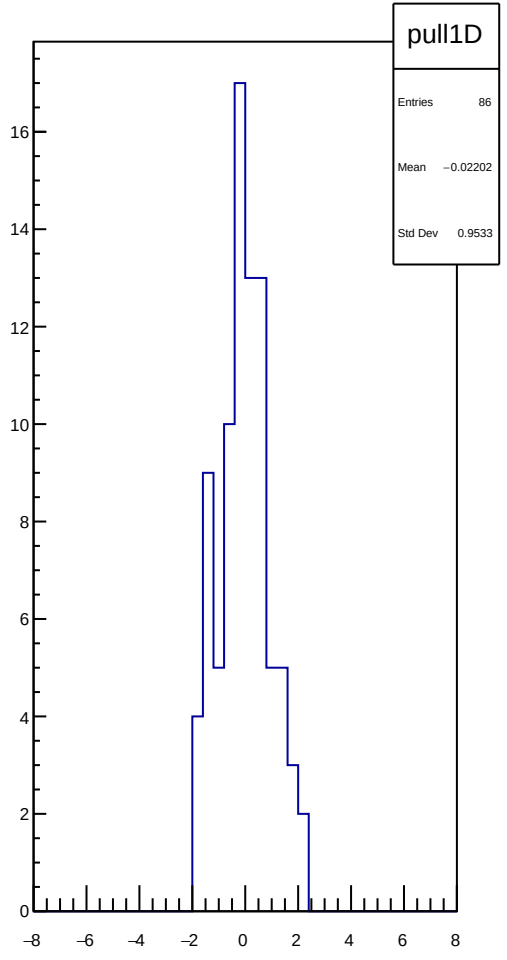

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.662e+04 / 85
p0 957.4 ± 0.7459
1400
1300
1200
1100
1000
900
800
700

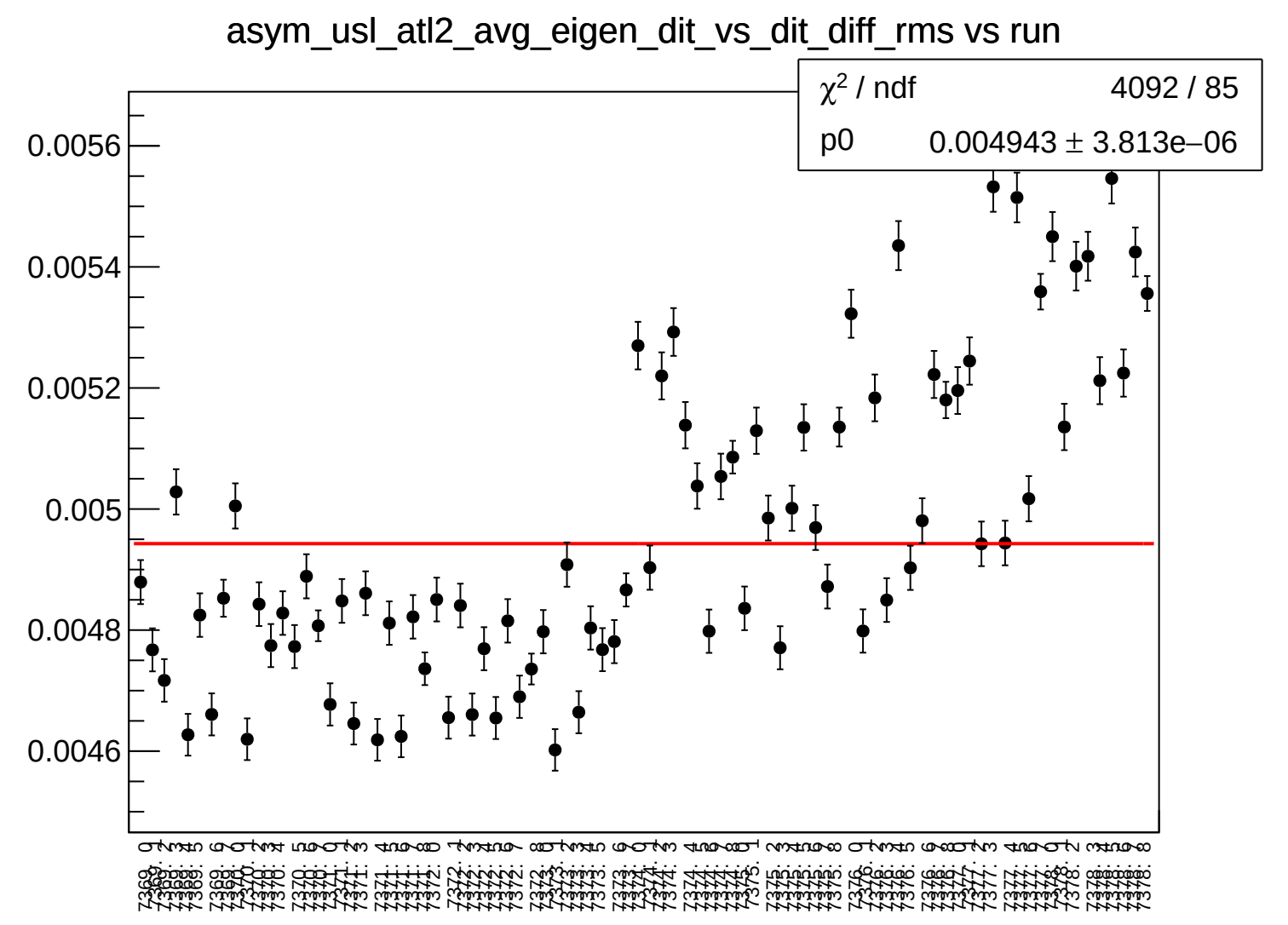

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.77 / 85
p0 −1.249 ± 1.055
pull
Entries 86
Mean 51.7
Std Dev 0

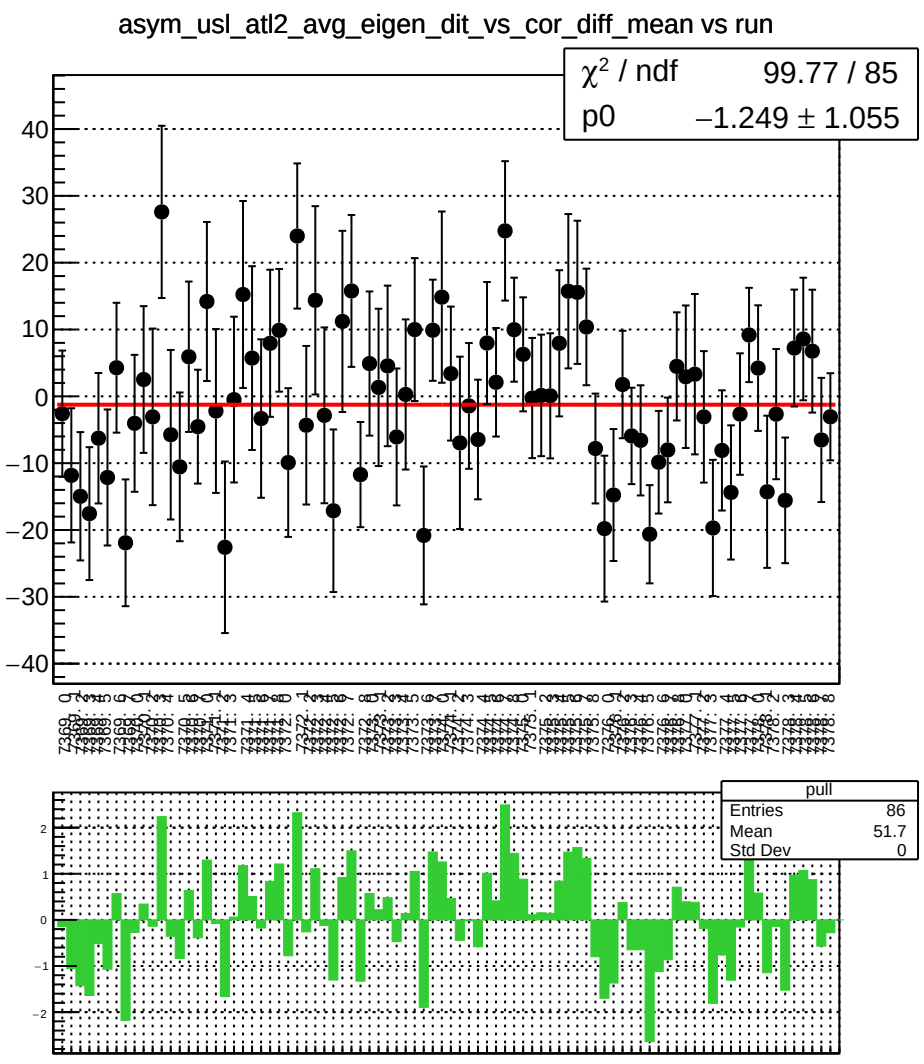

pull1D
Entries 86
Mean 0.02647
Std Dev 1.077

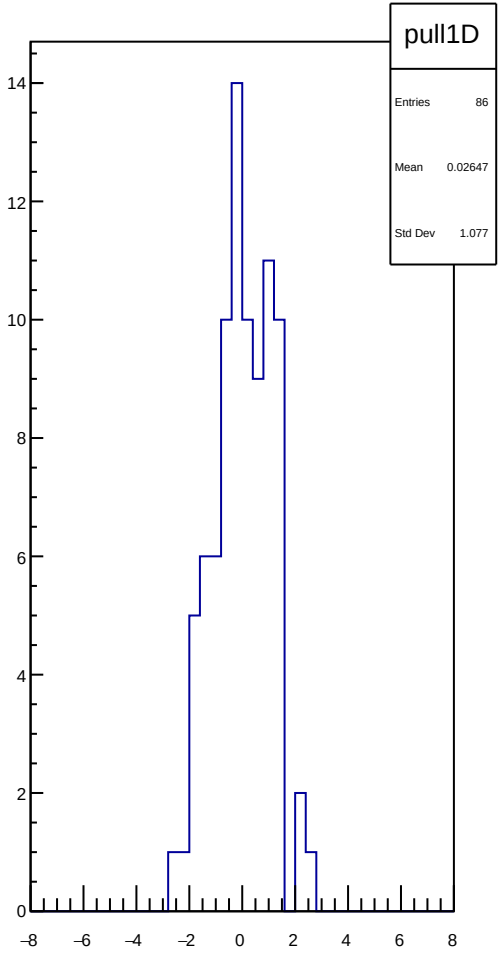

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.662e+04 / 85
p0 957.4 ± 0.7459
1400
1300
1200
1100
1000
900
800
700

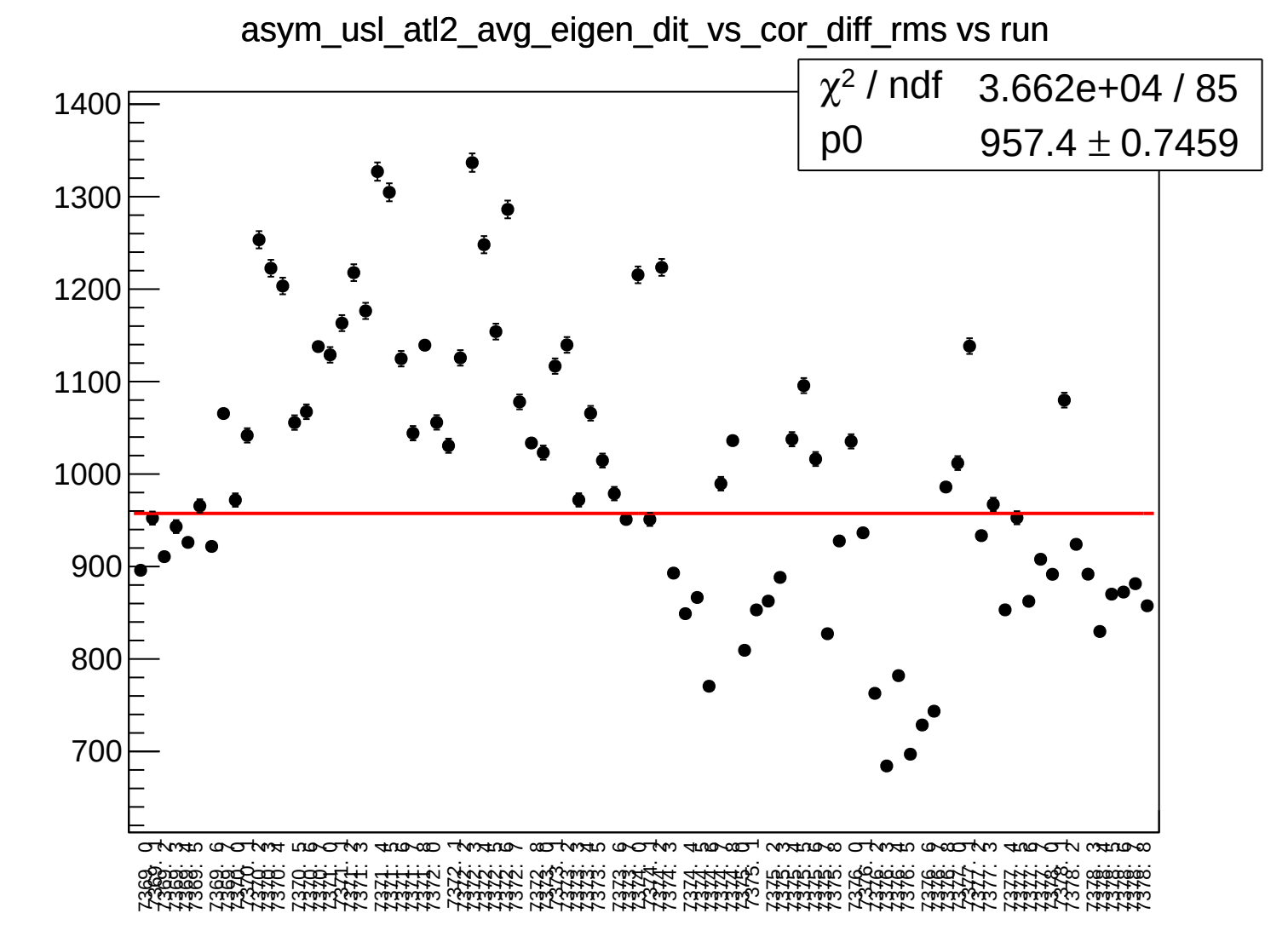

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.19 / 85
p0 1.453e−06 ± 5.393e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 90.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

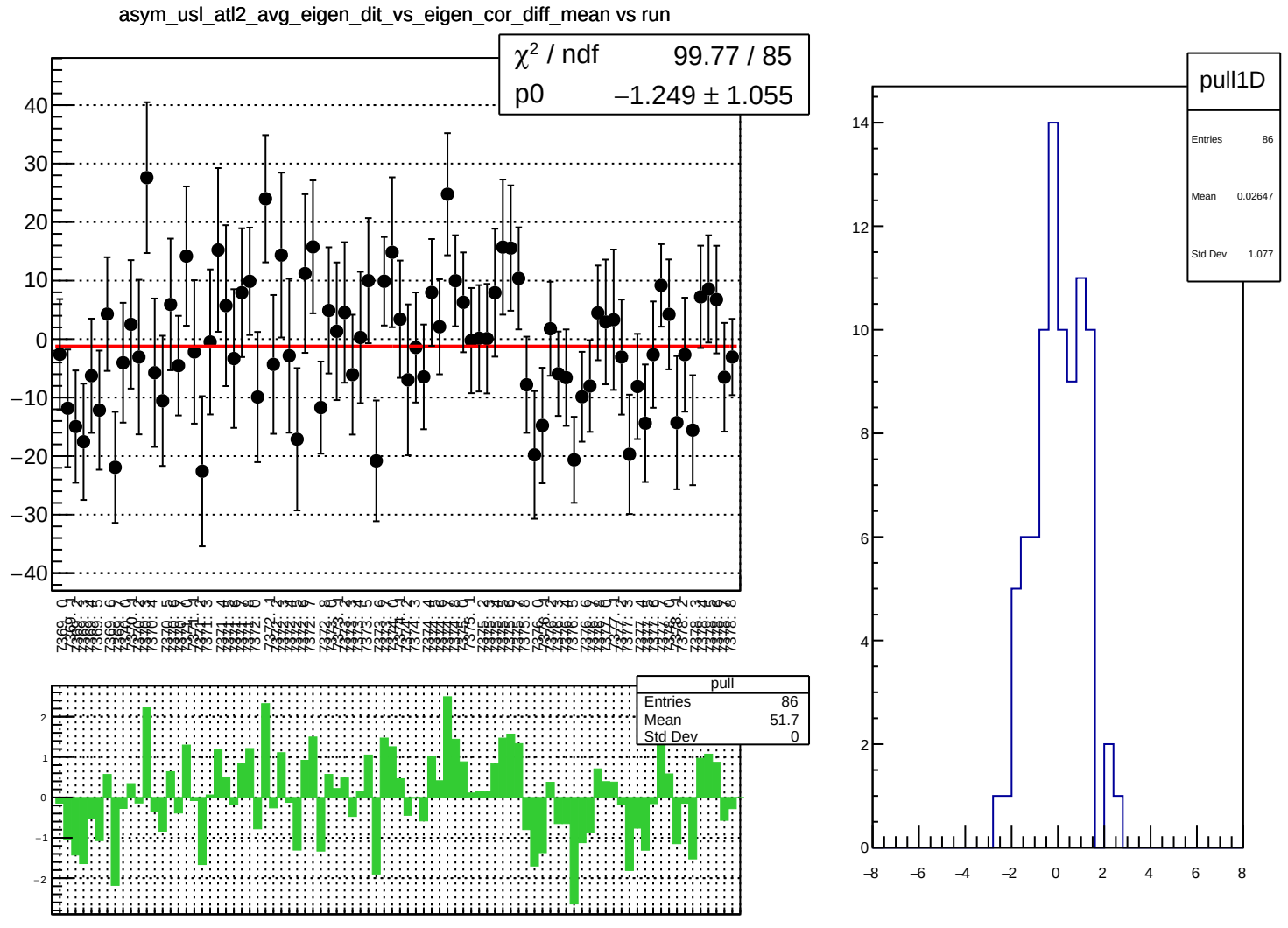

pull1D
Entries 86
Mean −0.02202
Std Dev 0.9533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

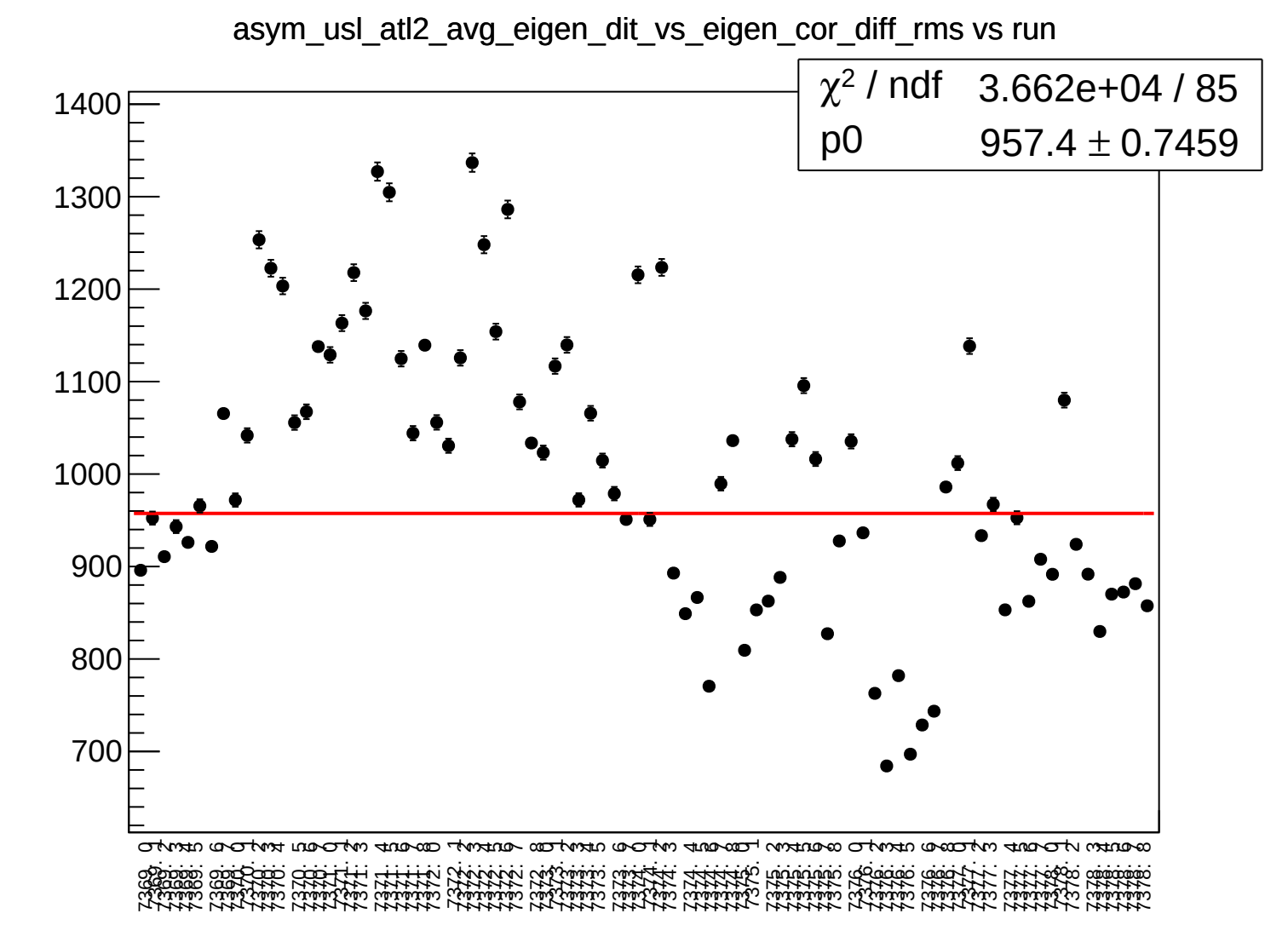

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4092 / 85
p0 0.004943 ± 3.813e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046

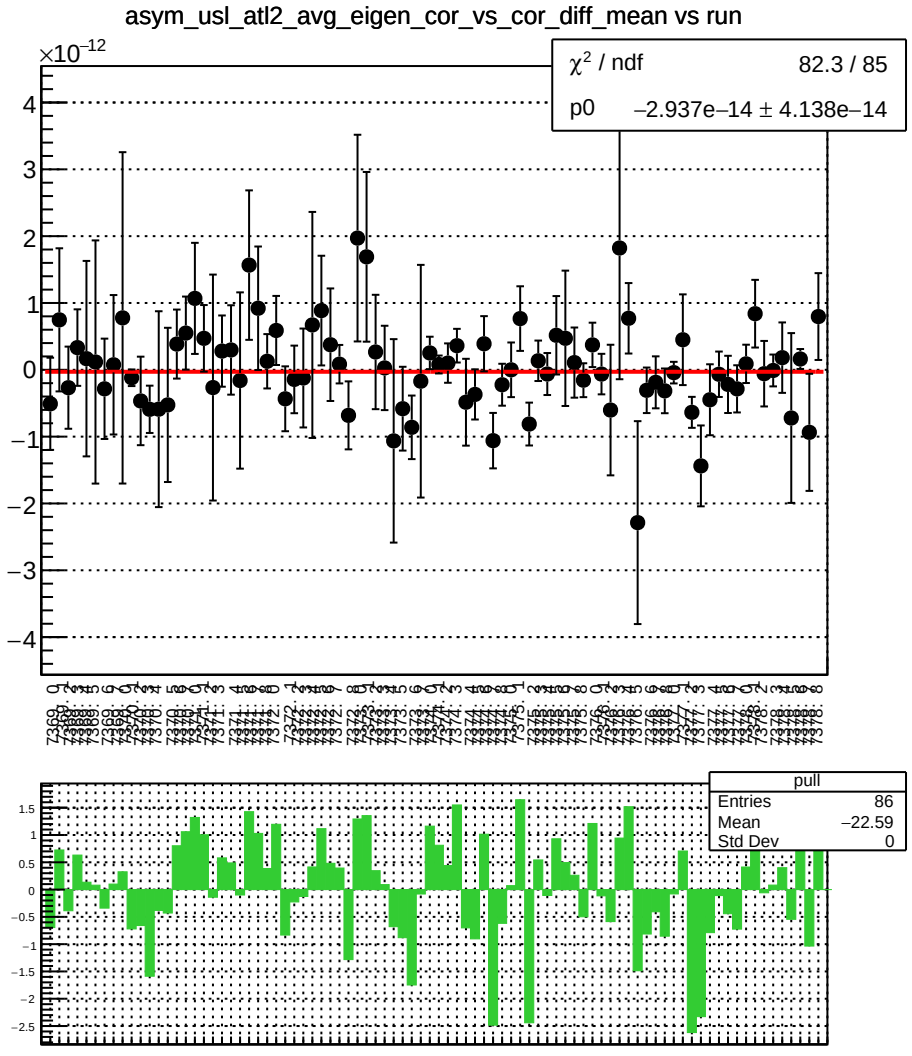

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.77 / 85
p0 −1.249 ± 1.055
pull
Entries 86
Mean 51.7
Std Dev 0

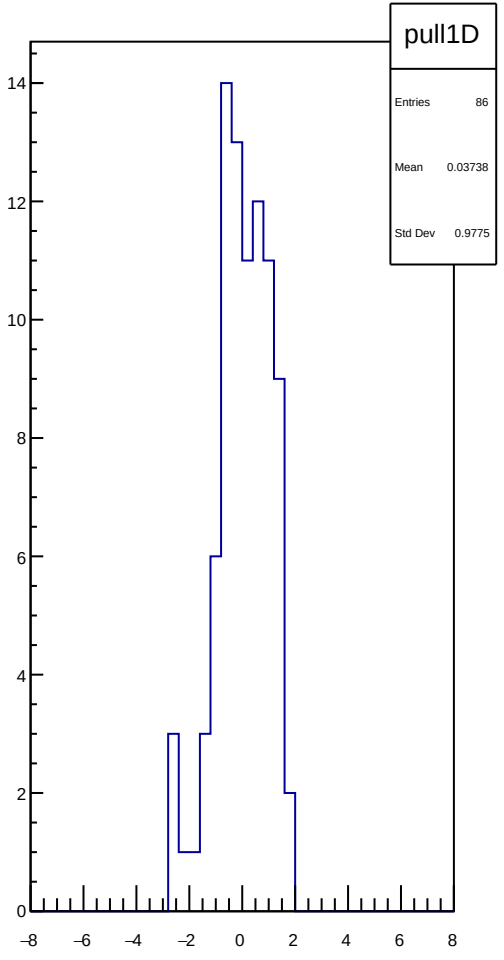

pull1D
Entries 86
Mean 0.02647
Std Dev 1.077

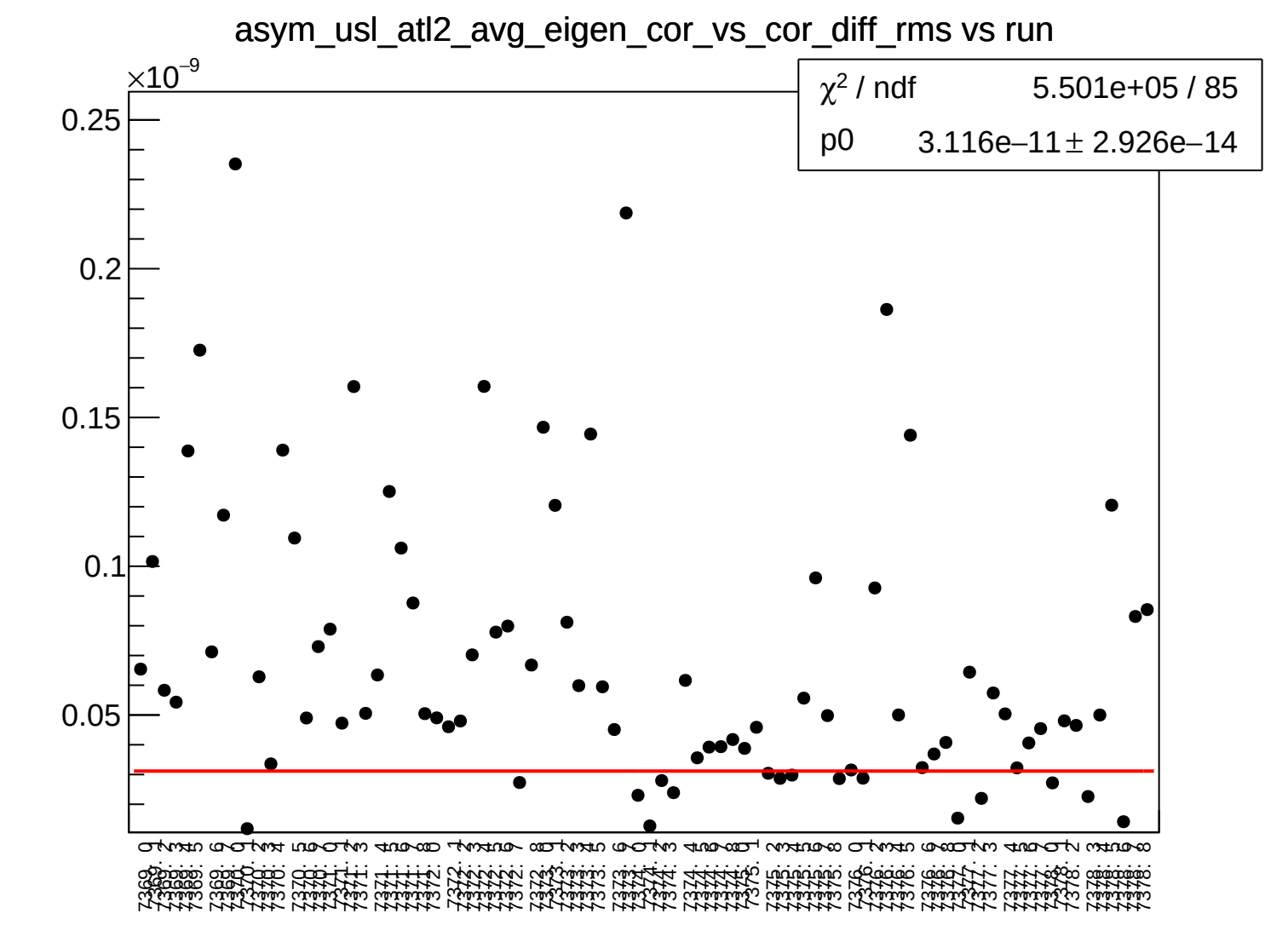

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.662e+04 / 85
p0 957.4 ± 0.7459
1400
1300
1200
1100
1000
900
800
700

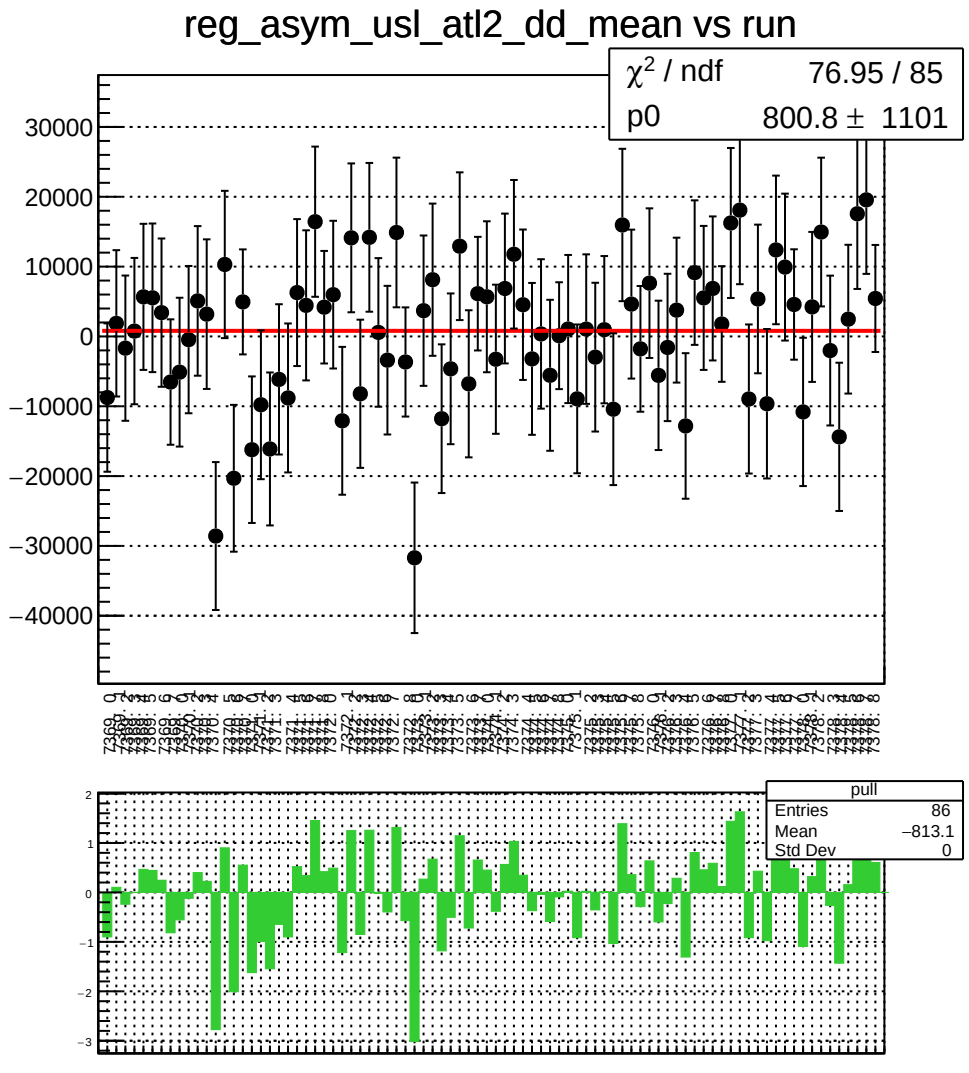

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.77 / 85
p0 −1.249 ± 1.055
pull
Entries 86
Mean 51.7
Std Dev 0
pull1D
Entries 86
Mean 0.02647
Std Dev 1.077

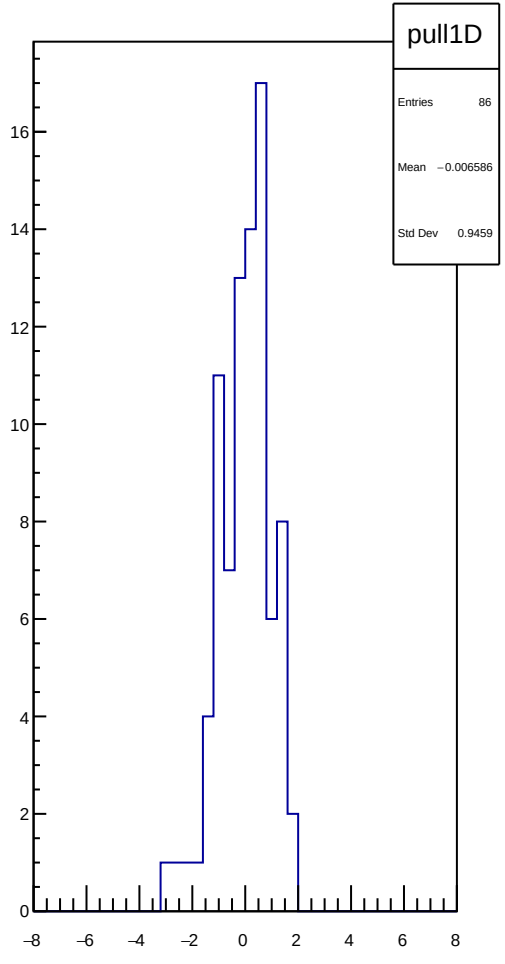

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.662e+04 / 85
p0 957.4 ± 0.7459
1400
1300
1200
1100
1000
900
800
700

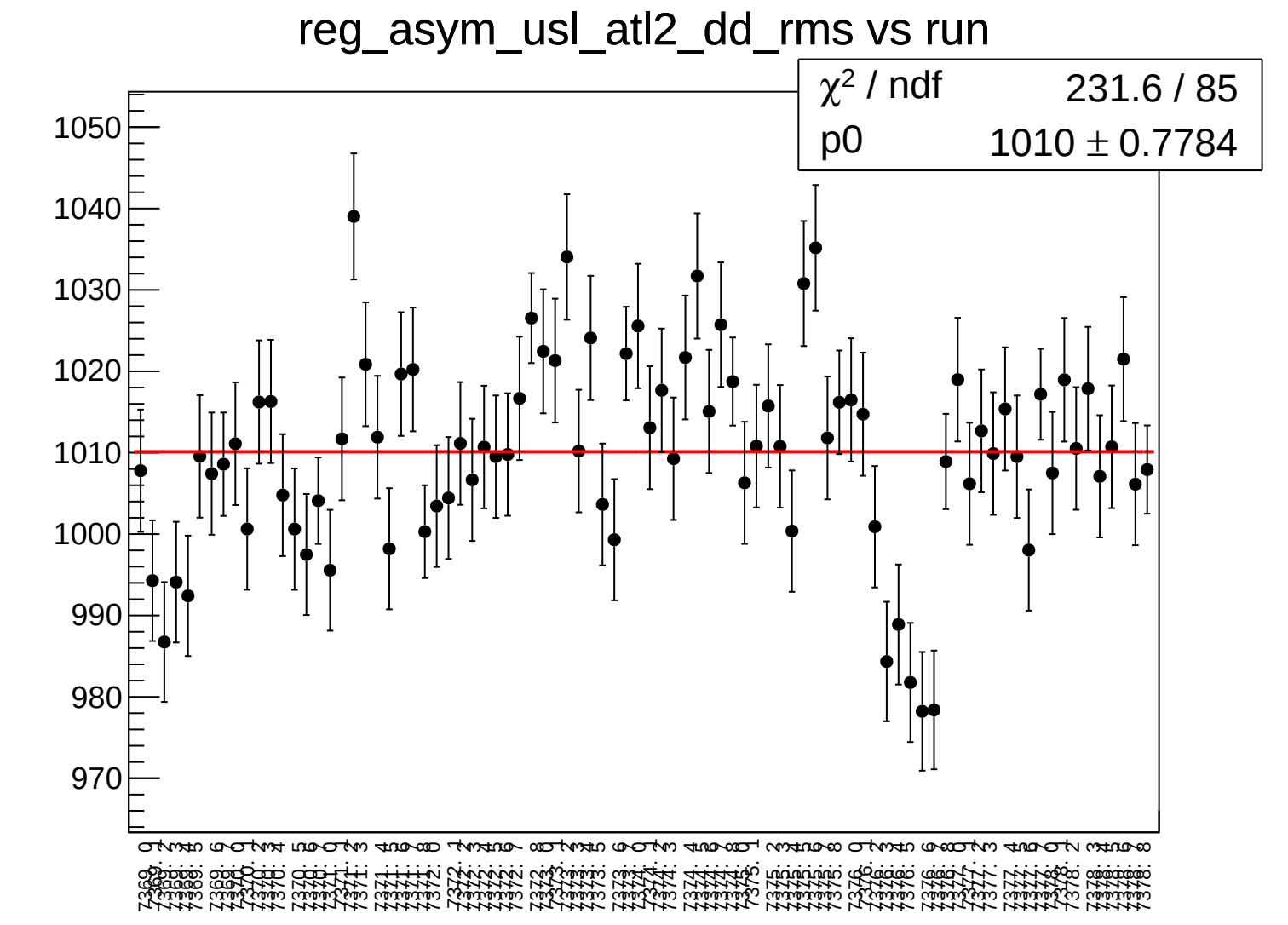

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.3 / 85
p0 −2.937e−14 ± 4.138e−14
pull
Entries 86
Mean −22.59
Std Dev 0

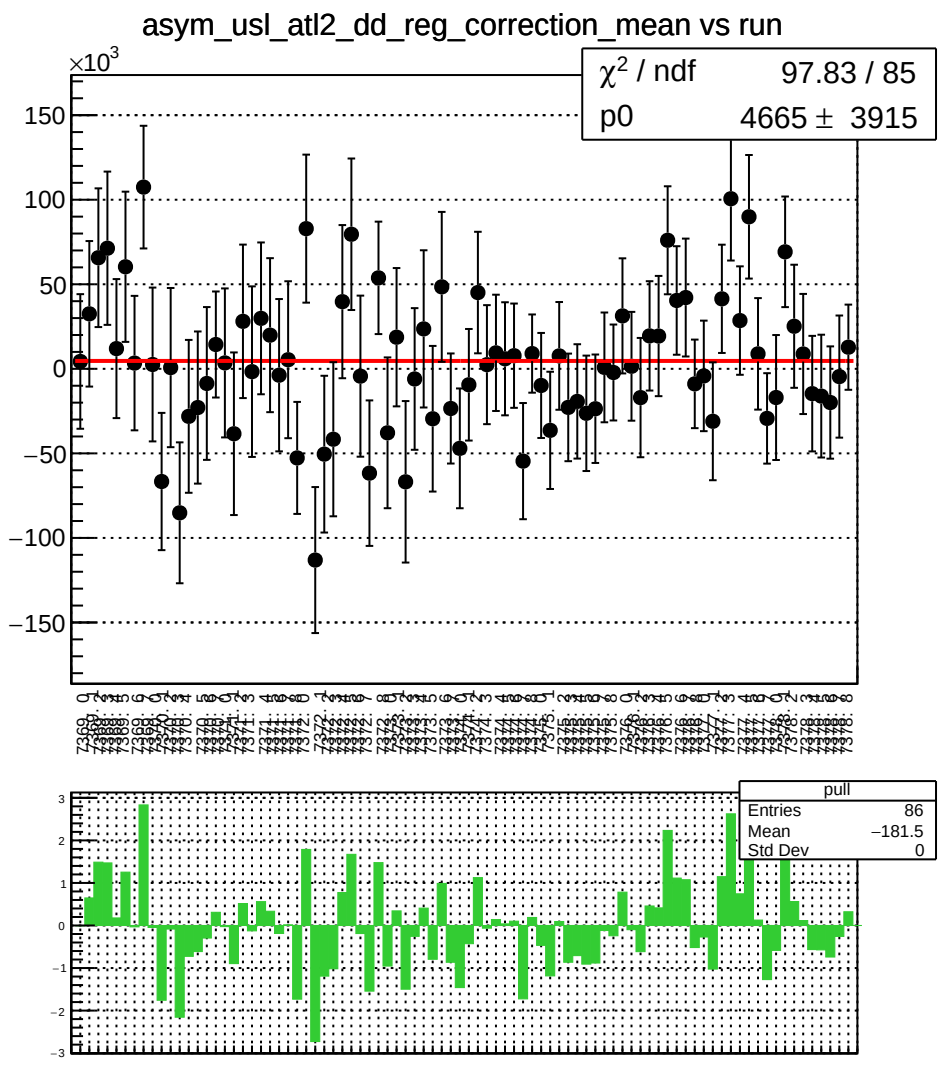

pull1D
Entries 86
Mean 0.03738
Std Dev 0.9775

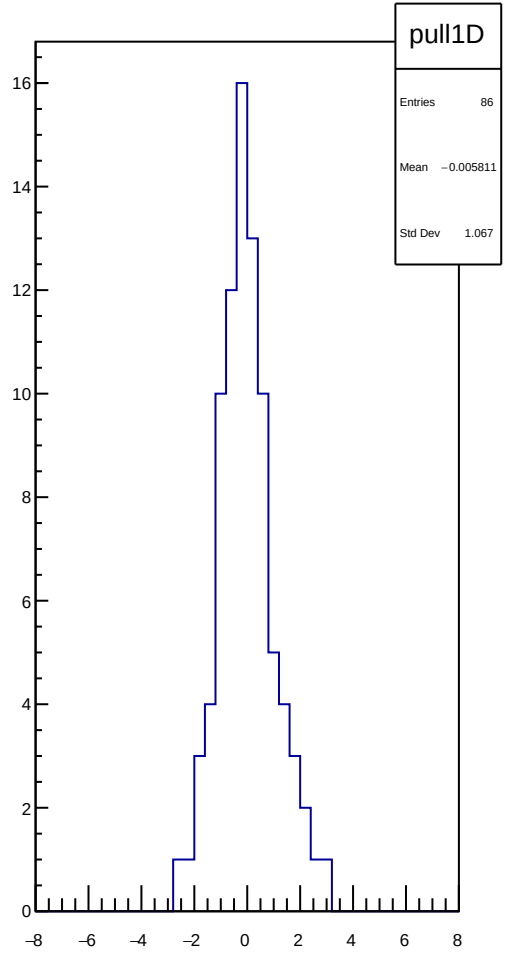

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.501e+05 / 85
p0 3.116e−11 ± 2.926e−14
0.25
0.2
0.15
0.1
0.05

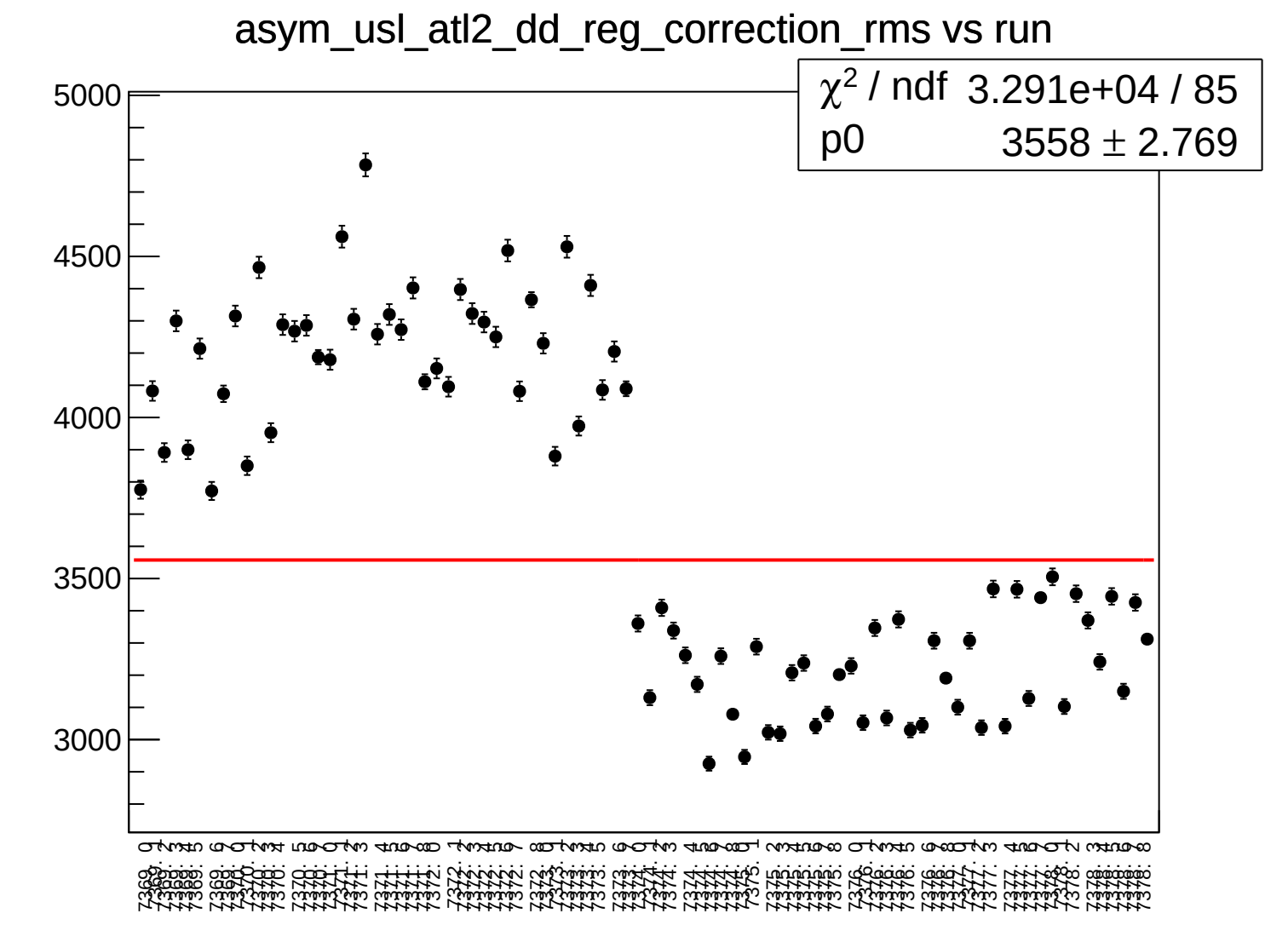

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 76.95 / 85
p0 800.8 ± 1101
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −813.1
Std Dev 0
2
1
0
−1
−2
−3

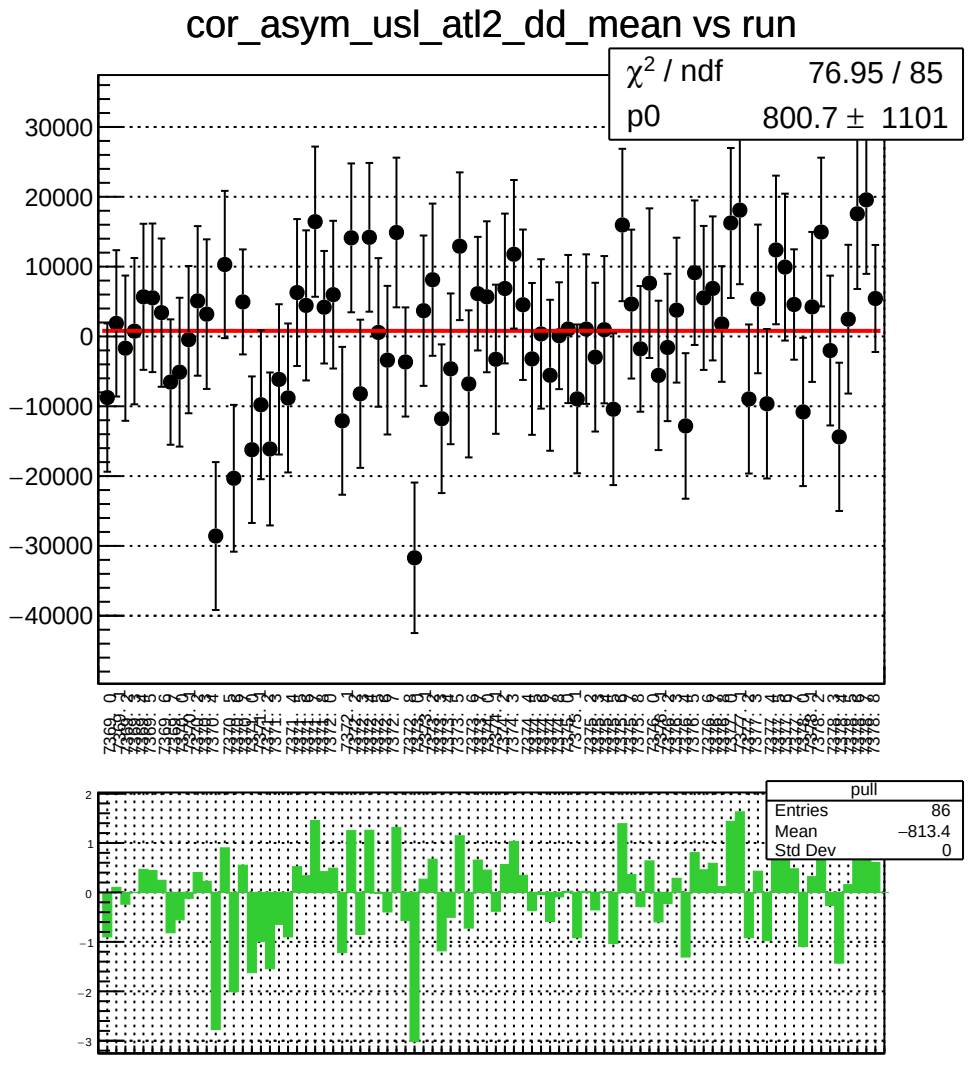

pull1D
Entries 86
Mean −0.006586
Std Dev 0.9459
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

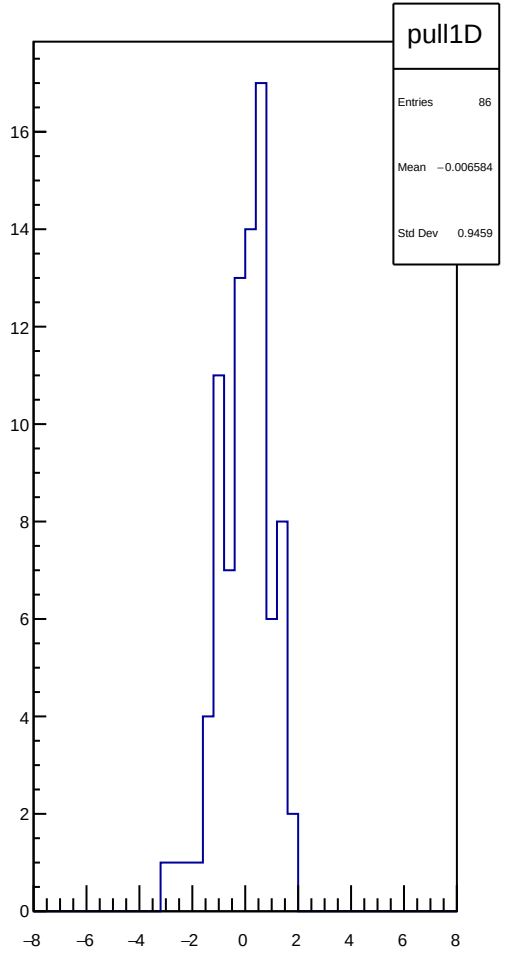

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 231.6 / 85
p0 1010 ± 0.7784
1050
1040
1030
1020
1010
1000
990
980
970


asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.83 / 85
p0 4665 ± 3915
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −181.5
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.005811
Std Dev 1.067
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 3.291e+04 / 85
p0 3558 ± 2.769
5000
4500
4000
3500
3000


cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 76.95 / 85
p0 800.7 ± 1101
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −813.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.006584
Std Dev 0.9459
16
14
12
10
8
6
4
2
0
−8
−6
−4
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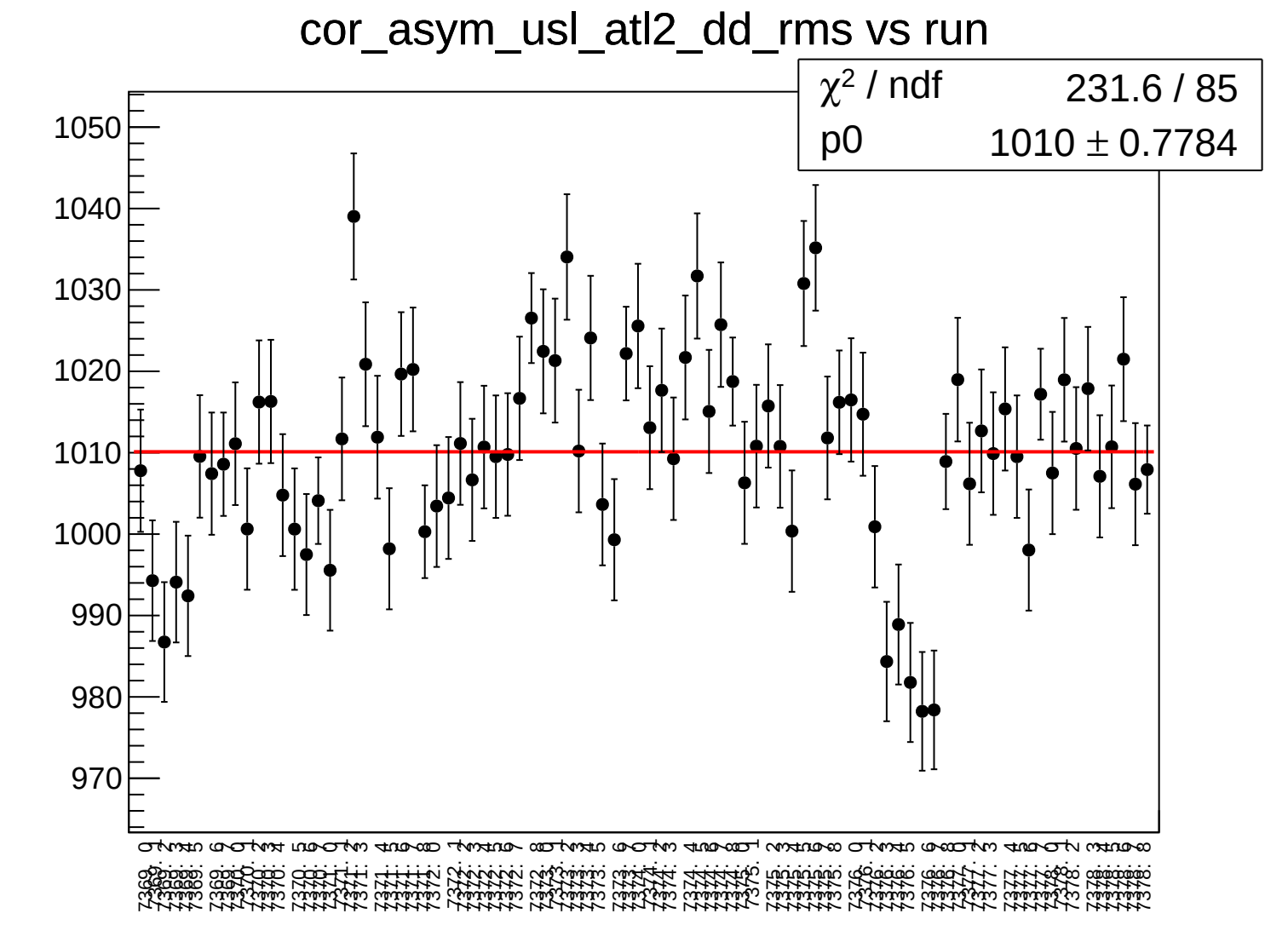
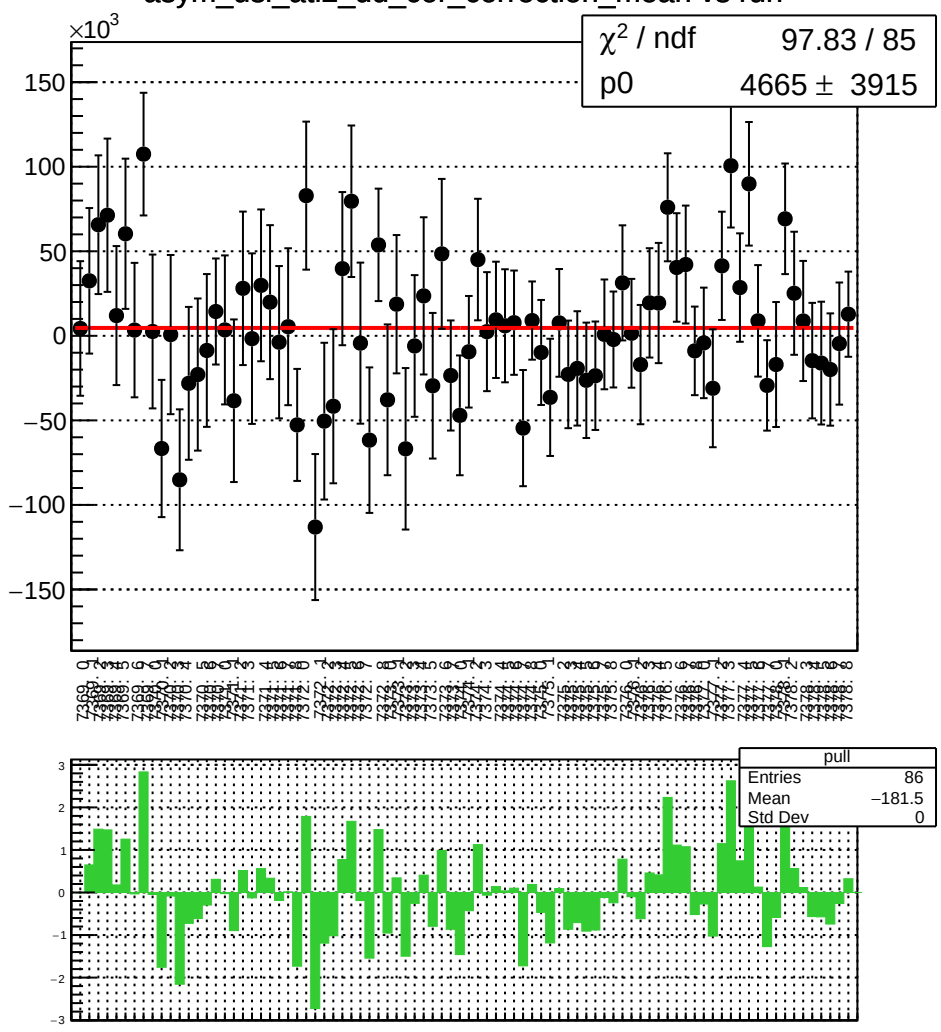
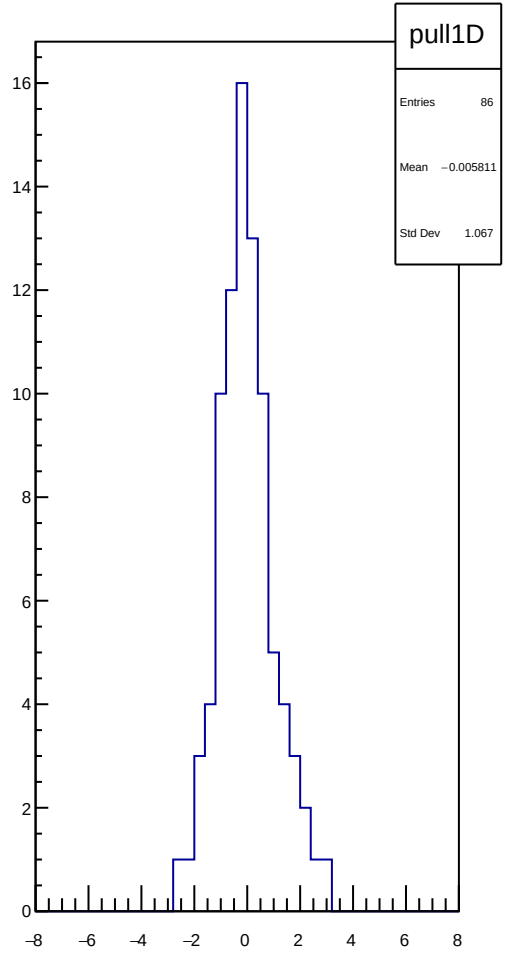
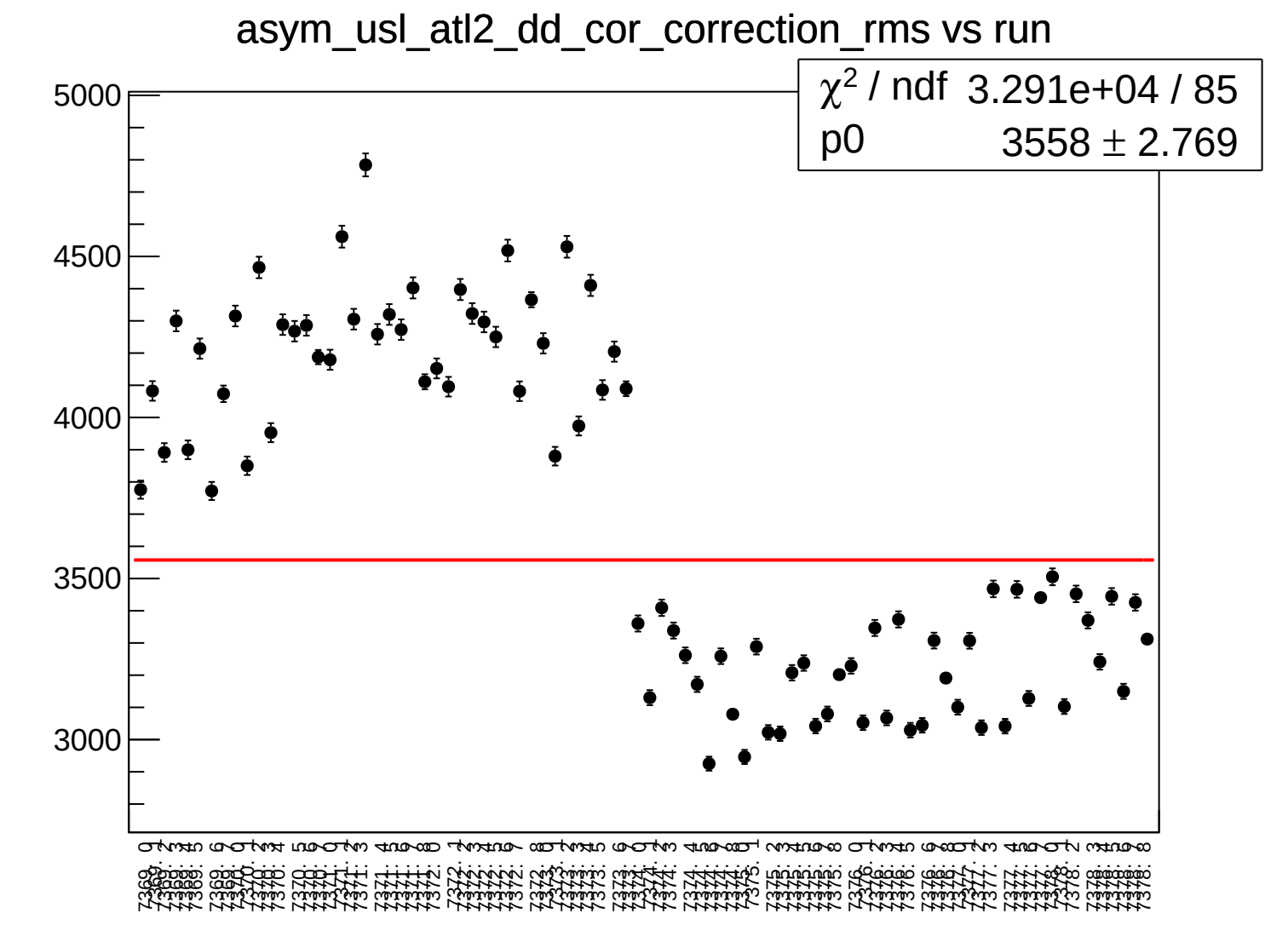
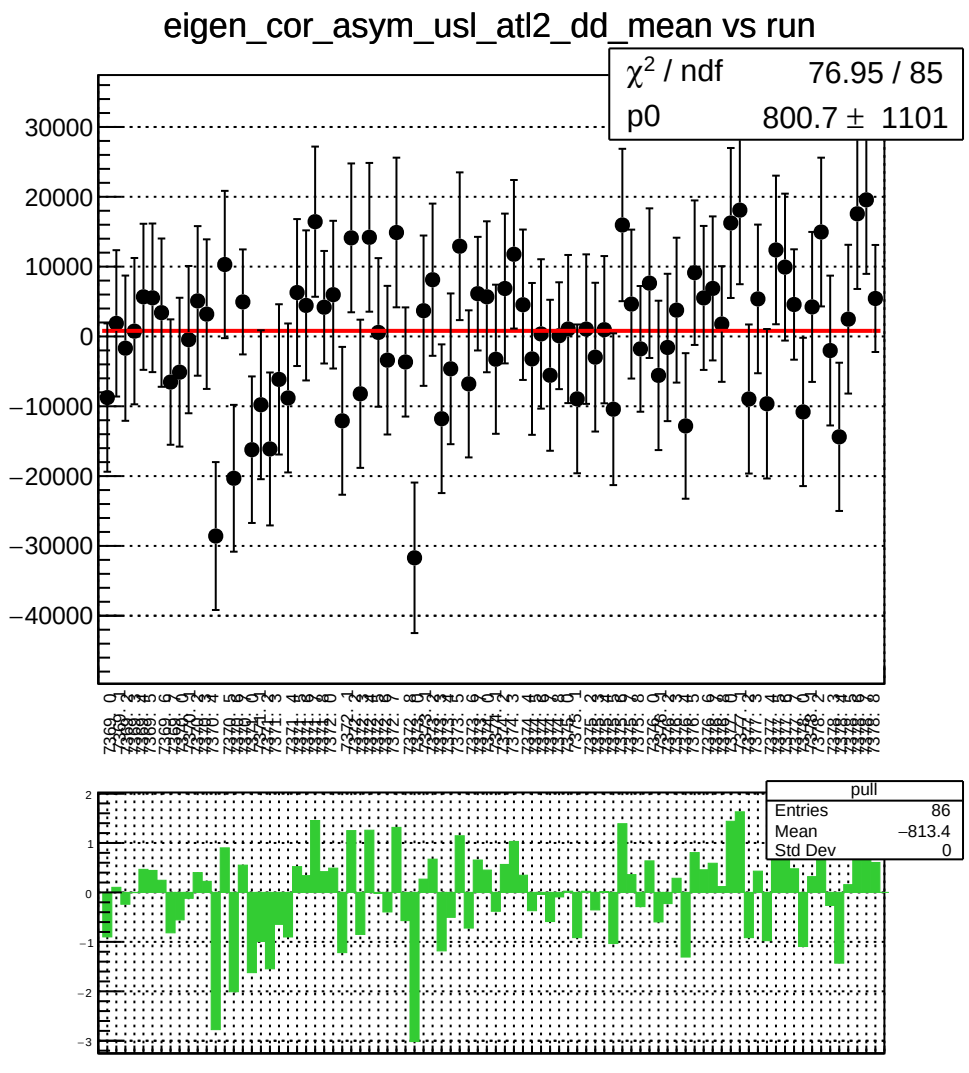
0
2
4
6
8

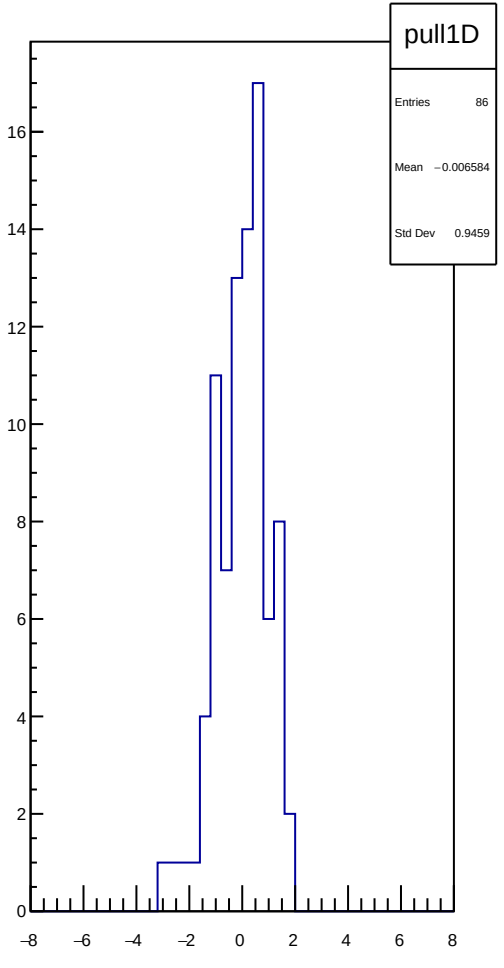

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 231.6 / 85
p0 1010 ± 0.7784
1050
1040
1030
1020
1010
1000
990
980
970

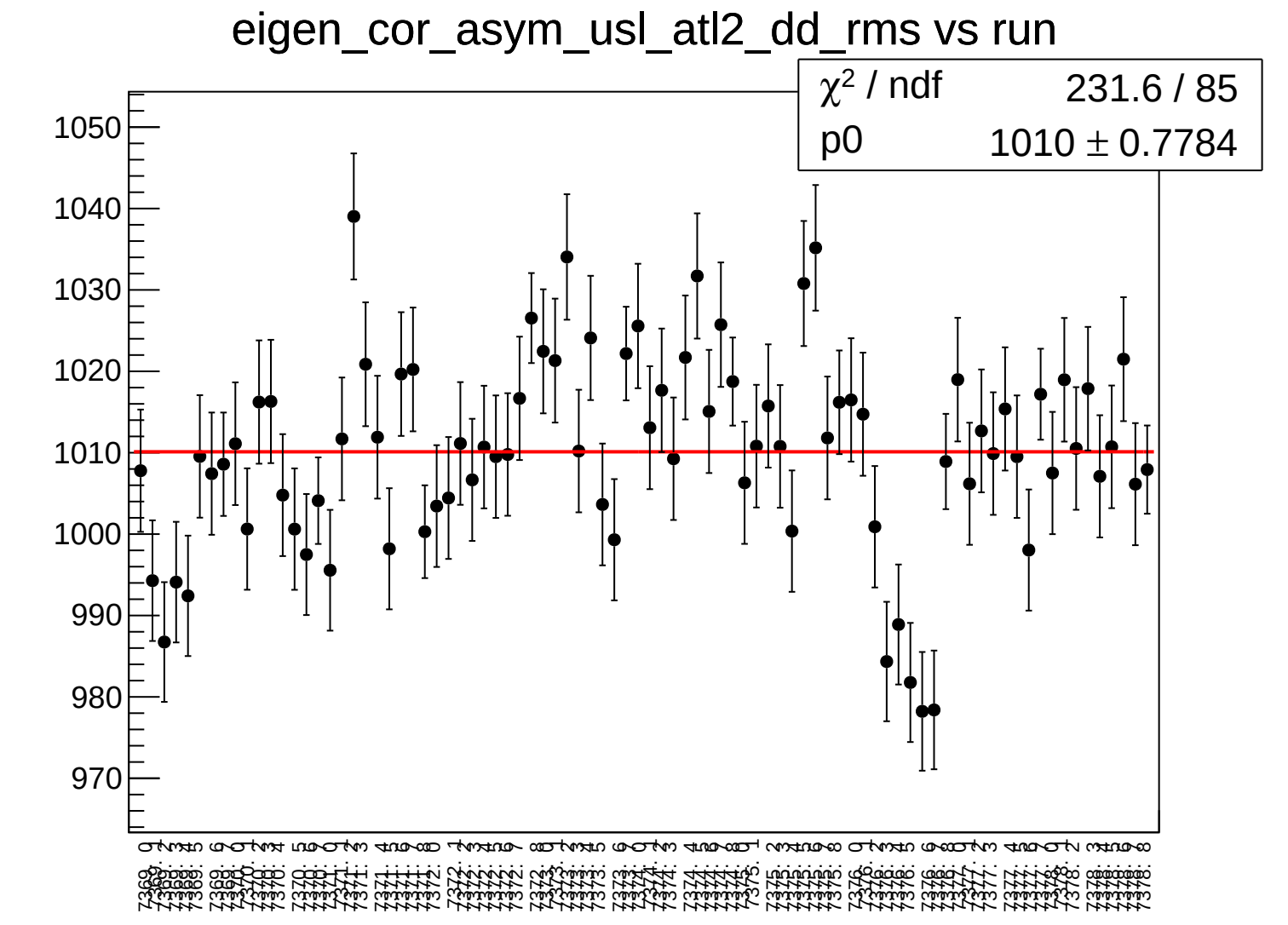

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.83 / 85
p0 4665 ± 3915
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −181.5
Std Dev 0
3
2
1
0
−1
−2
−3

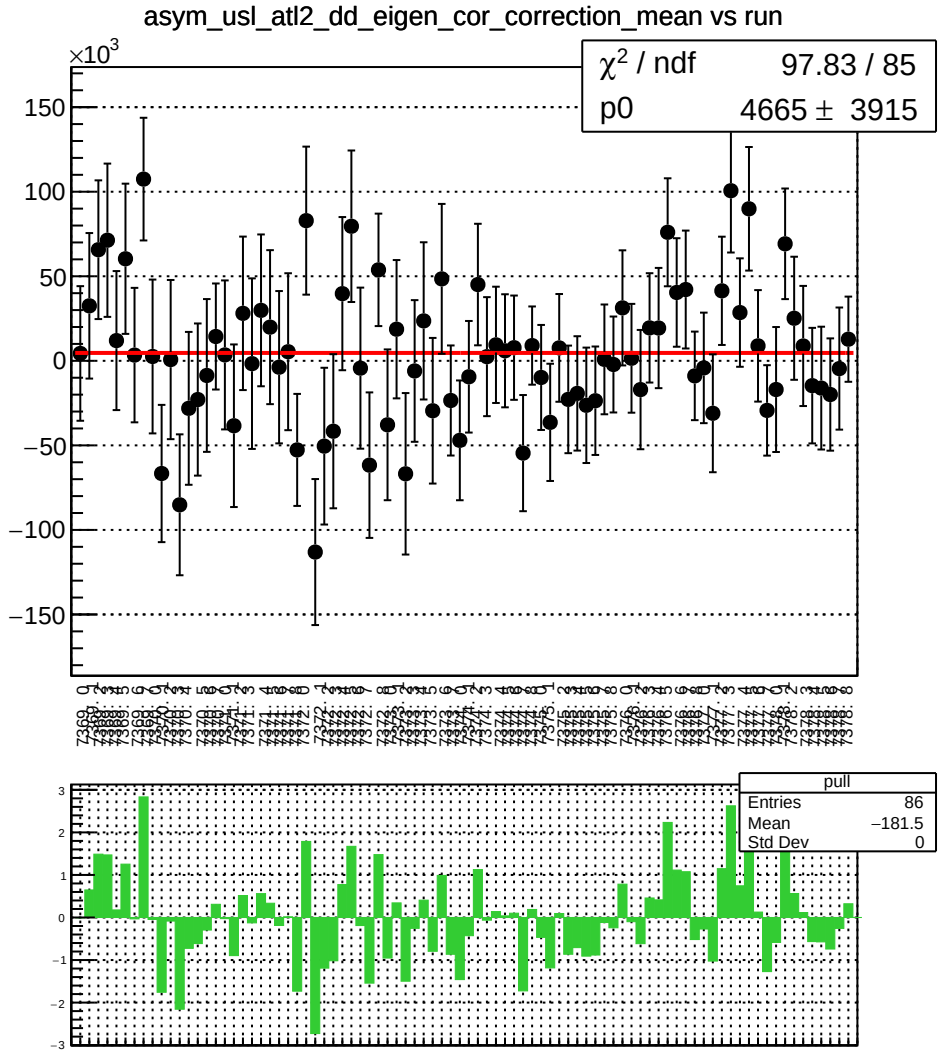

pull1D
Entries 86
Mean −0.005811
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

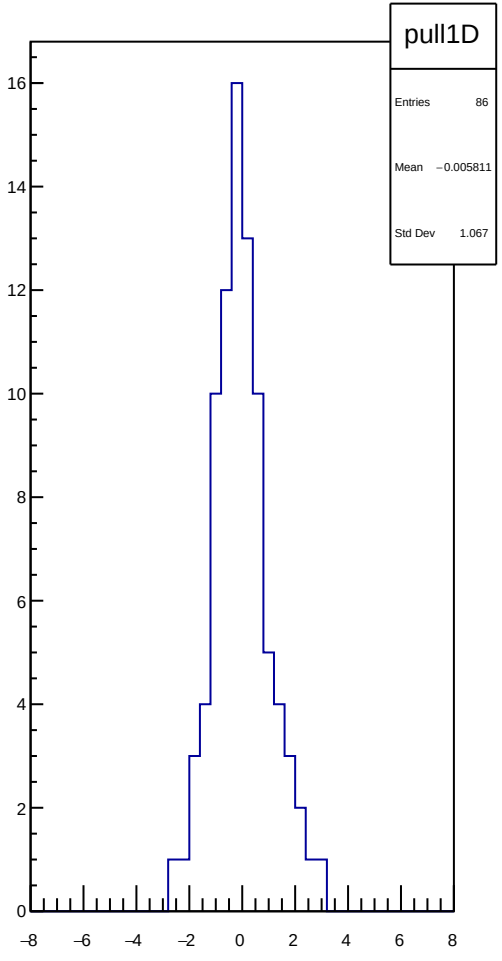

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 3.291e+04 / 85
p0 3558 ± 2.769
5000
4500
4000
3500
3000

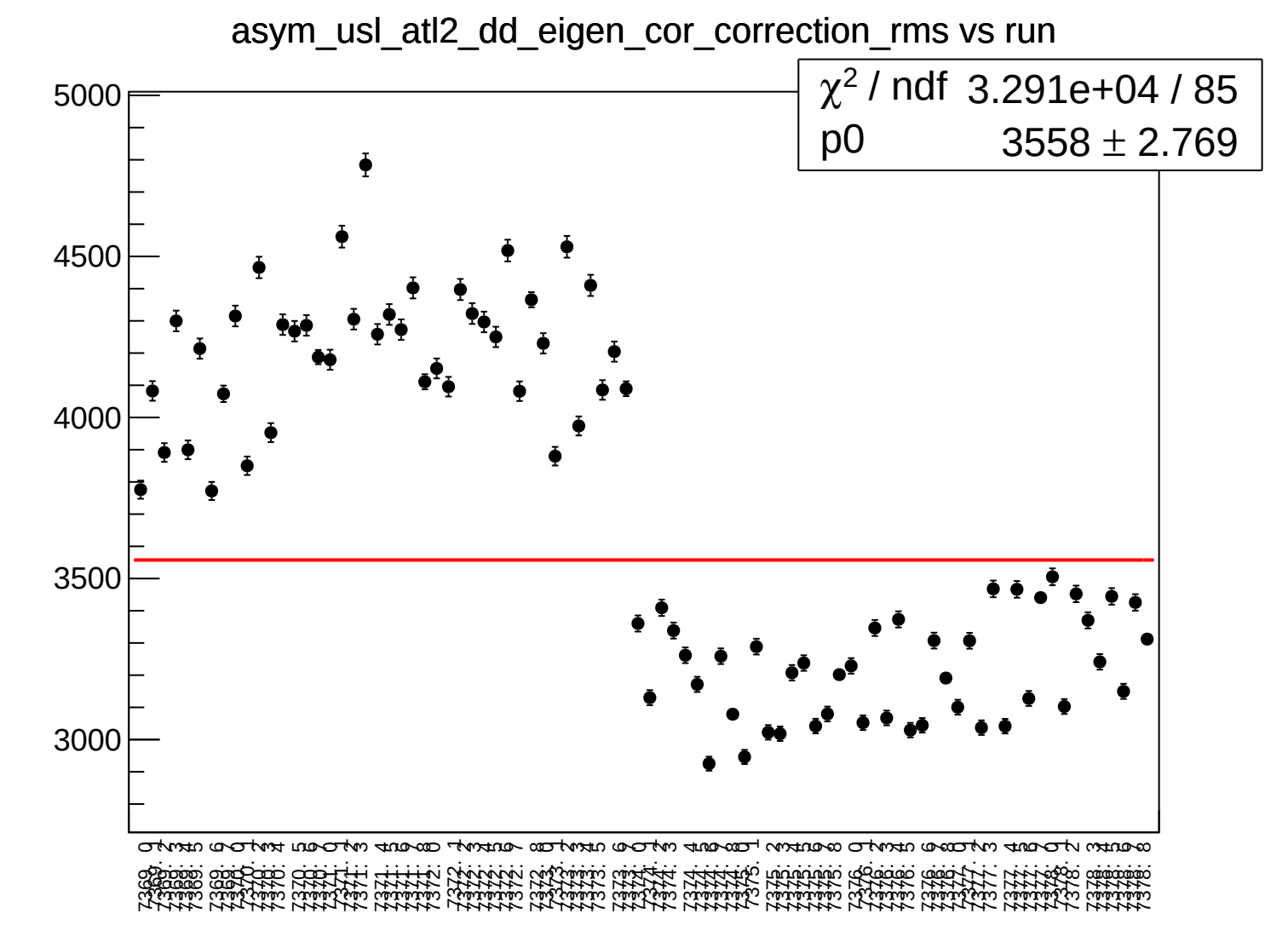

eigen_cor_asym_usl_atl2_dd_mean vs run
χ^2 / ndf 76.95 / 85
p0 800.7 ± 1101
pull
Entries 86
Mean −813.4
Std Dev 0

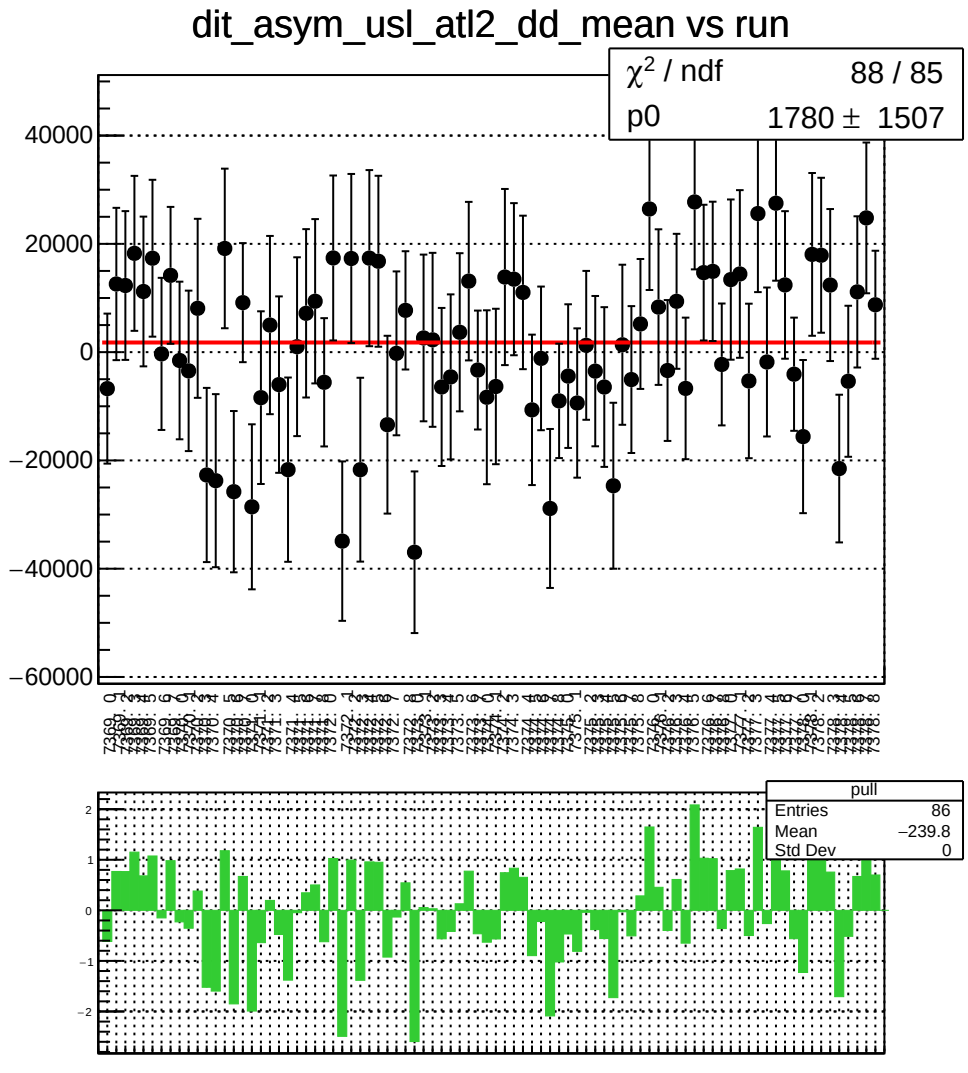

pull1D
Entries 86
Mean −0.006584
Std Dev 0.9459

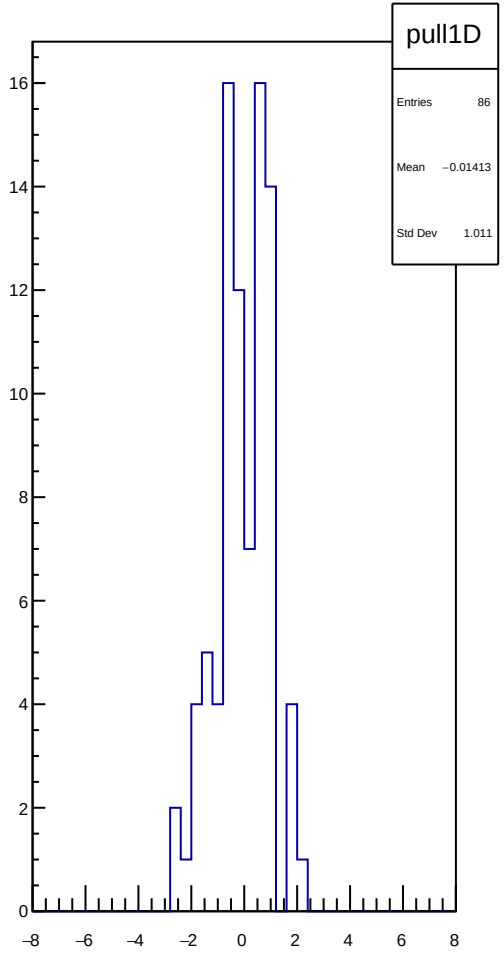

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 231.6 / 85
p0 1010 ± 0.7784
1050
1040
1030
1020
1010
1000
990
980
970

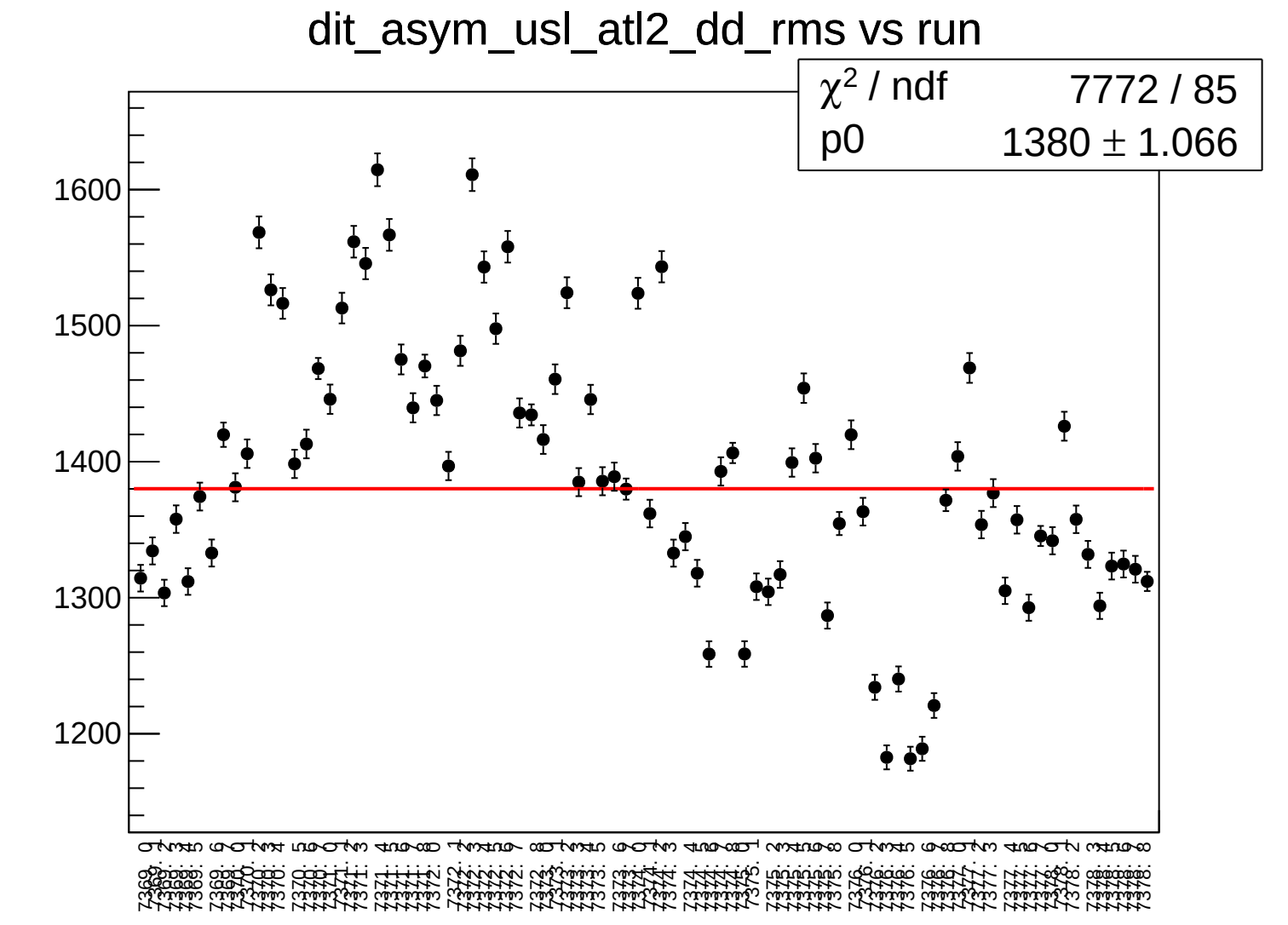

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.83 / 85
p0 4665 ± 3915
pull
Entries 86
Mean −181.5
Std Dev 0

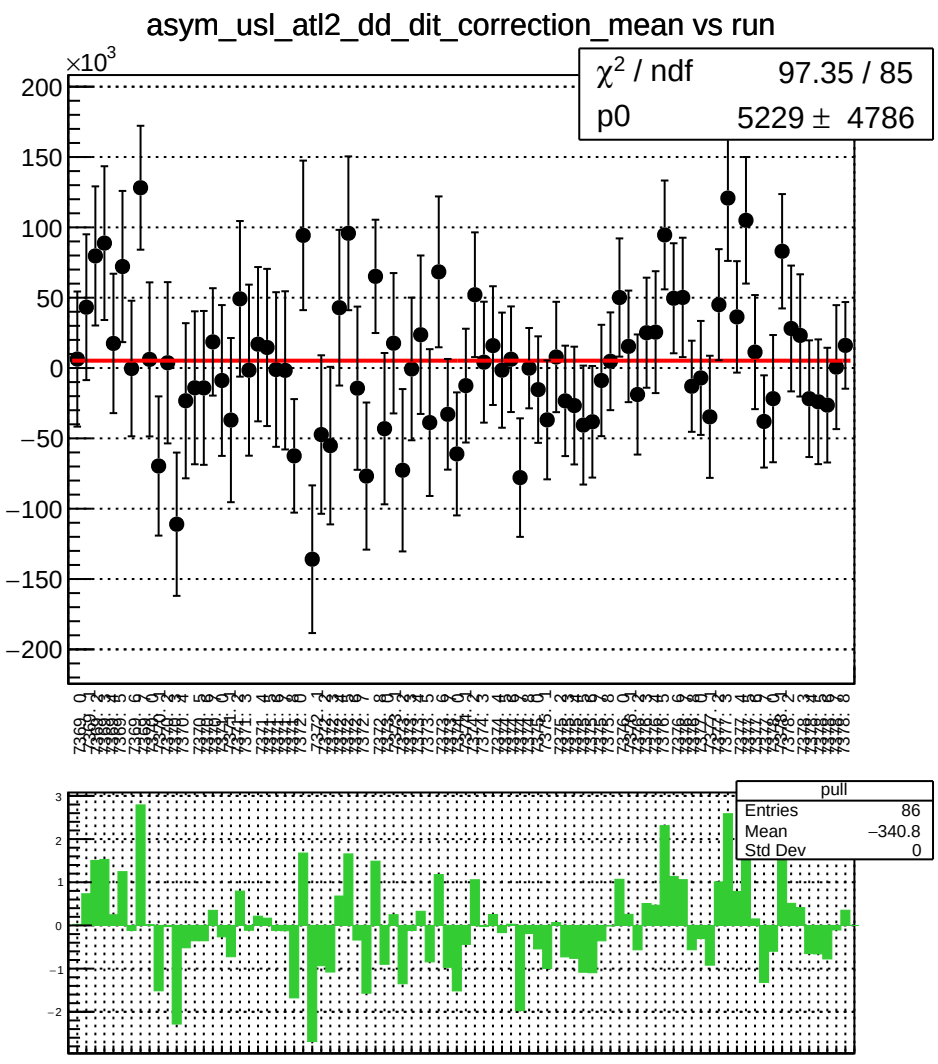

pull1D
Entries 86
Mean −0.005811
Std Dev 1.067

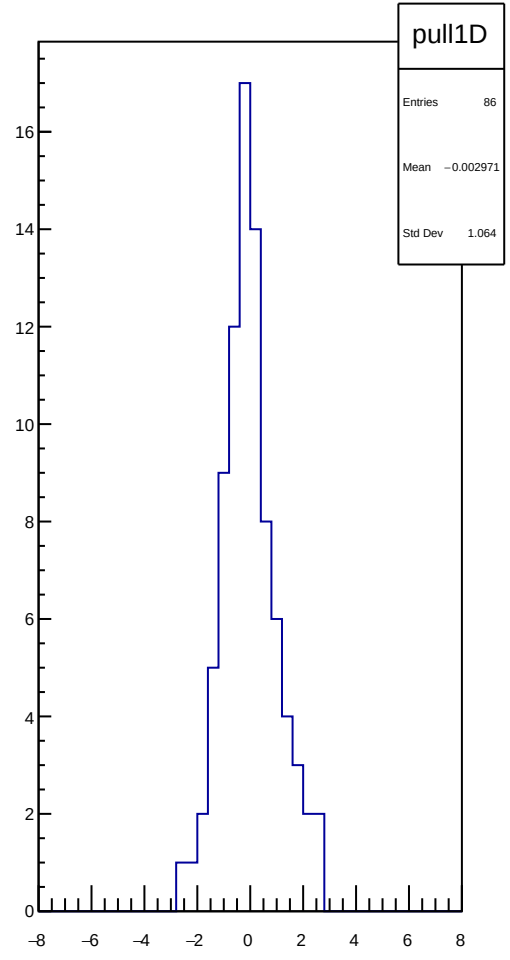

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.291e+04 / 85
p0 3558 ± 2.769
5000
4500
4000
3500
3000

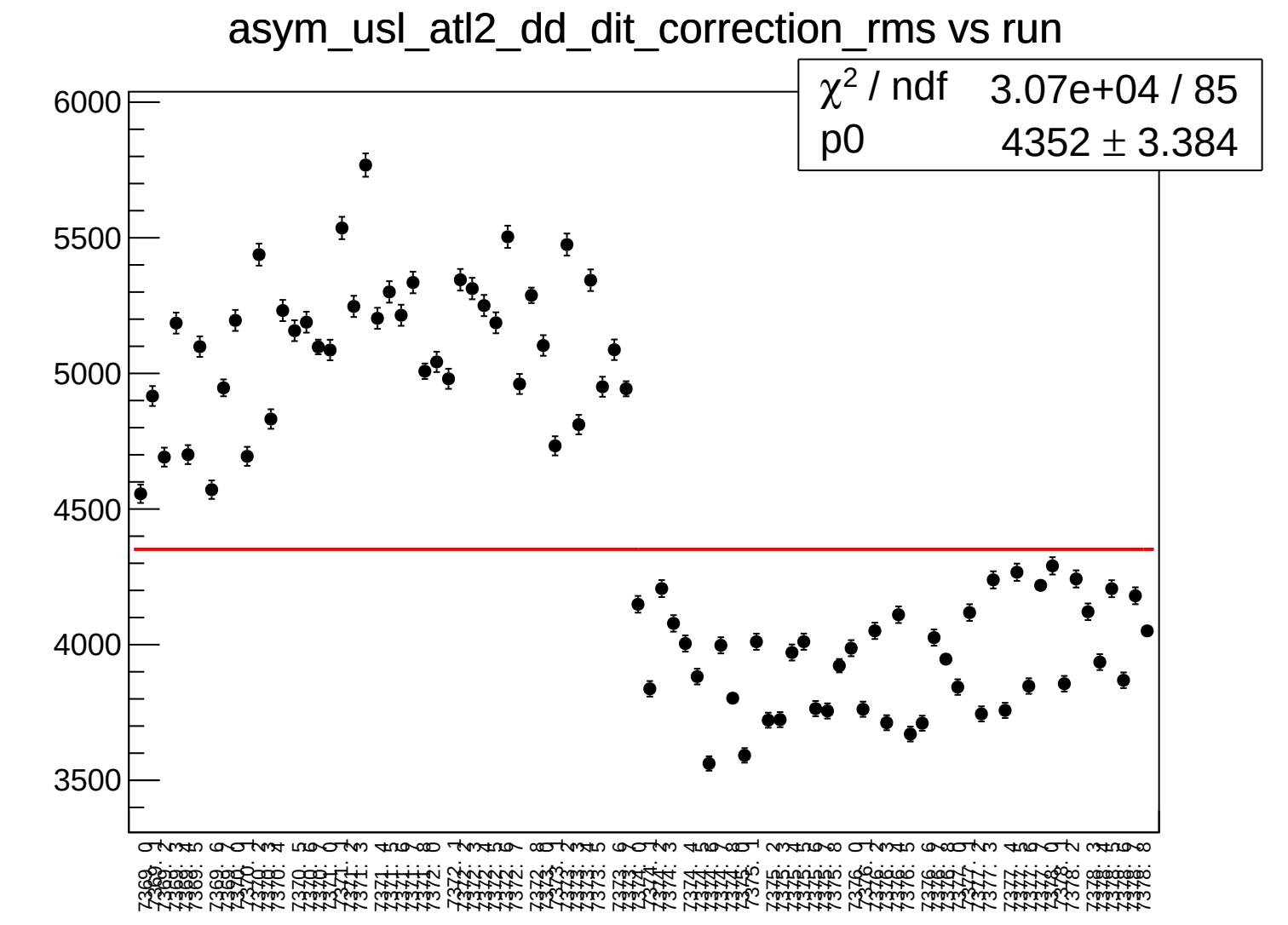

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 88 / 85
p0 1780 ± 1507
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −239.8
Std Dev 0
2
1
0
−1
−2

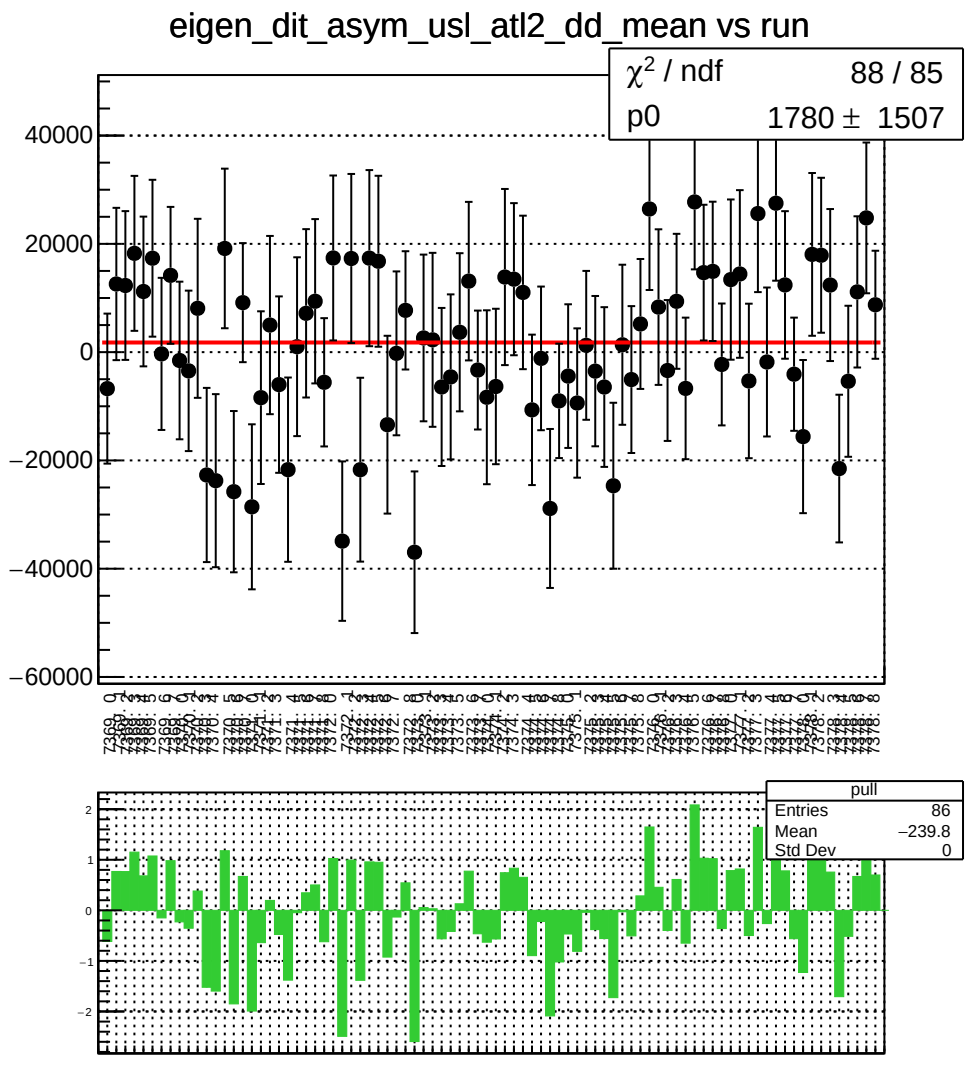

pull1D
Entries 86
Mean −0.01413
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

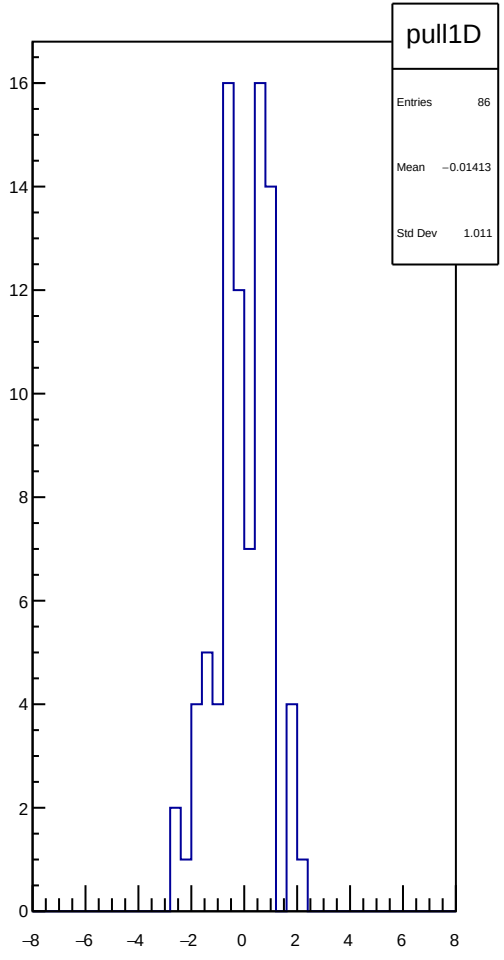

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 7772 / 85
p0 1380 ± 1.066
1600
1500
1400
1300
1200

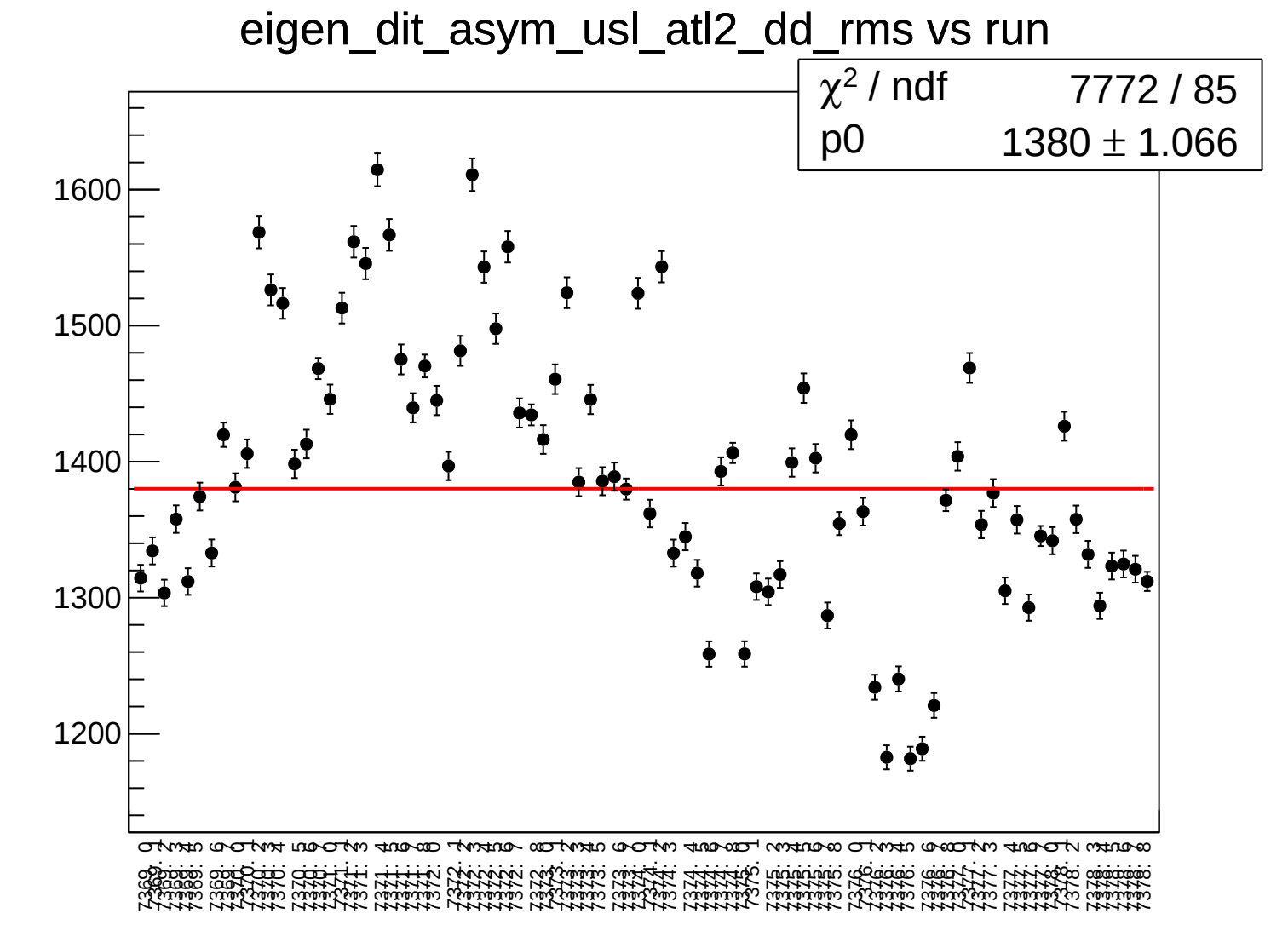

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.35 / 85
p0 5229 ± 4786
pull
Entries 86
Mean −340.8
Std Dev 0

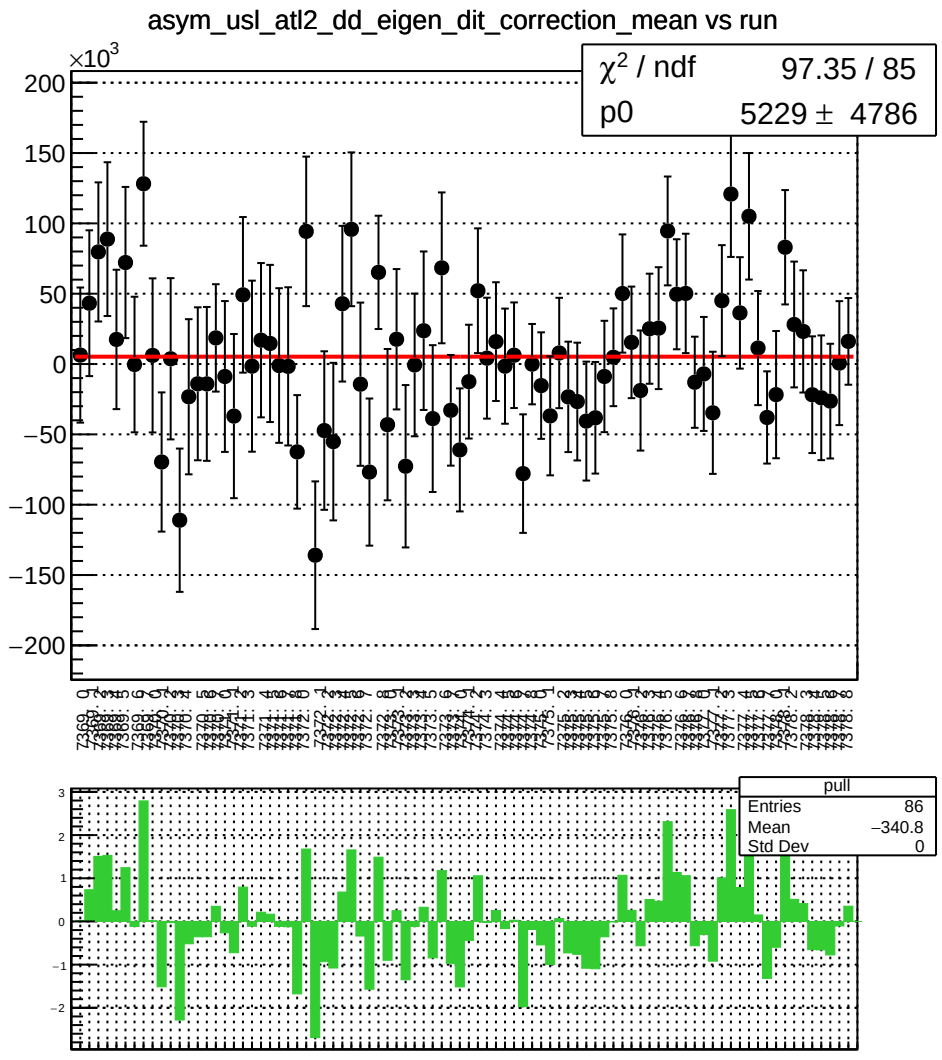

pull1D
Entries 86
Mean −0.002971
Std Dev 1.064

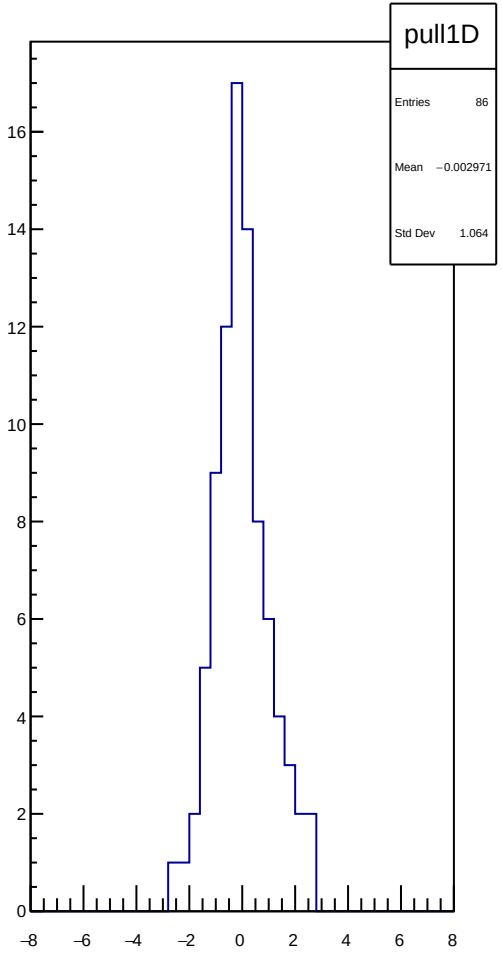

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 3.07e+04 / 85
p0 4352 ± 3.384
6000
5500
5000
4500
4000
3500

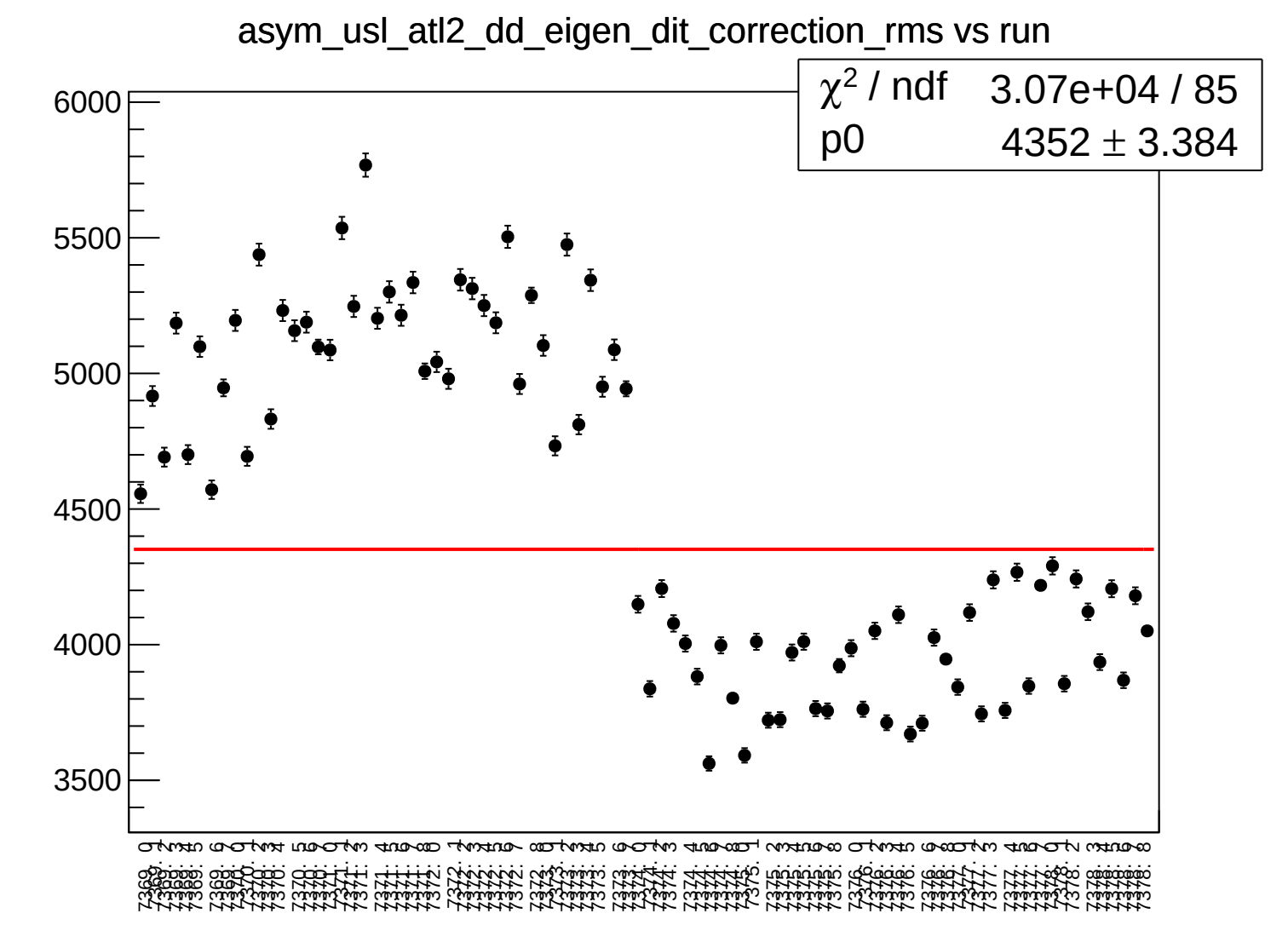

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 88 / 85
p0 1780 ± 1507
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −239.8
Std Dev 0
2
1
0
−1
−2

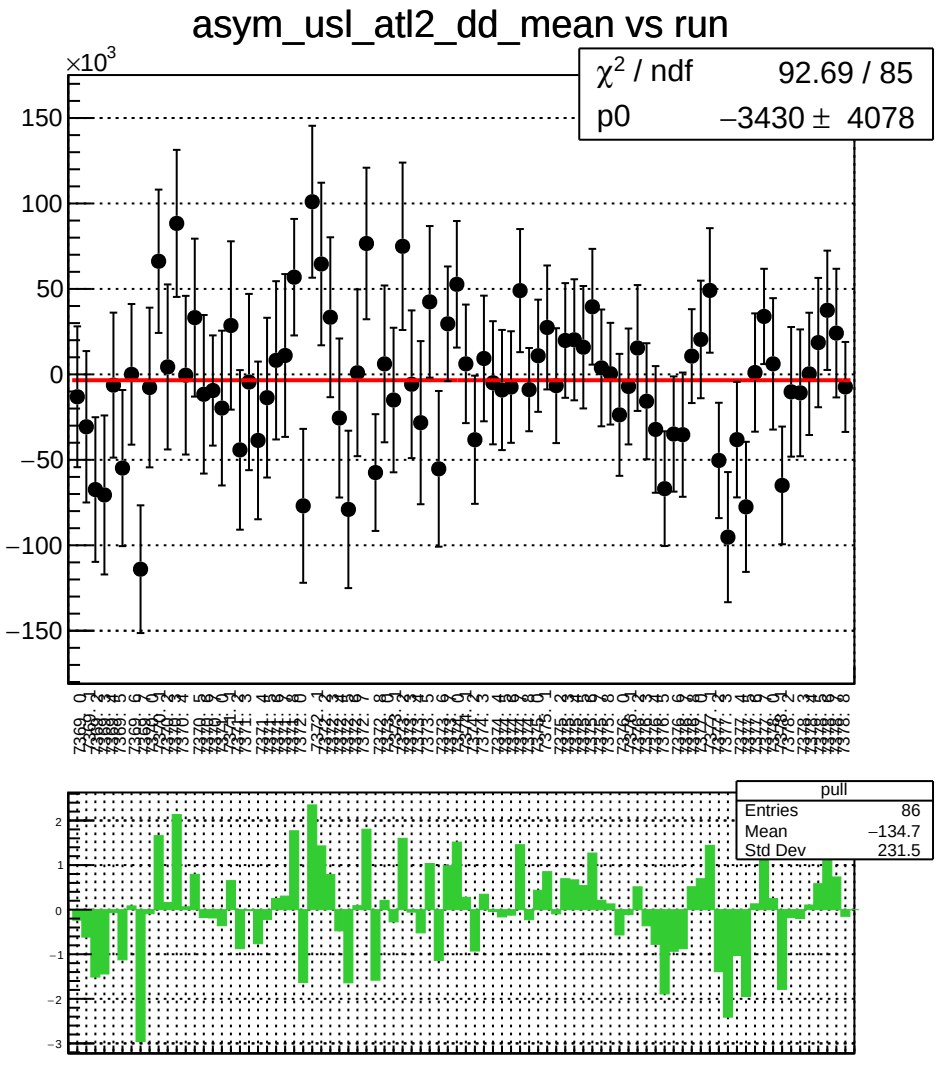

pull1D
Entries 86
Mean −0.01413
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

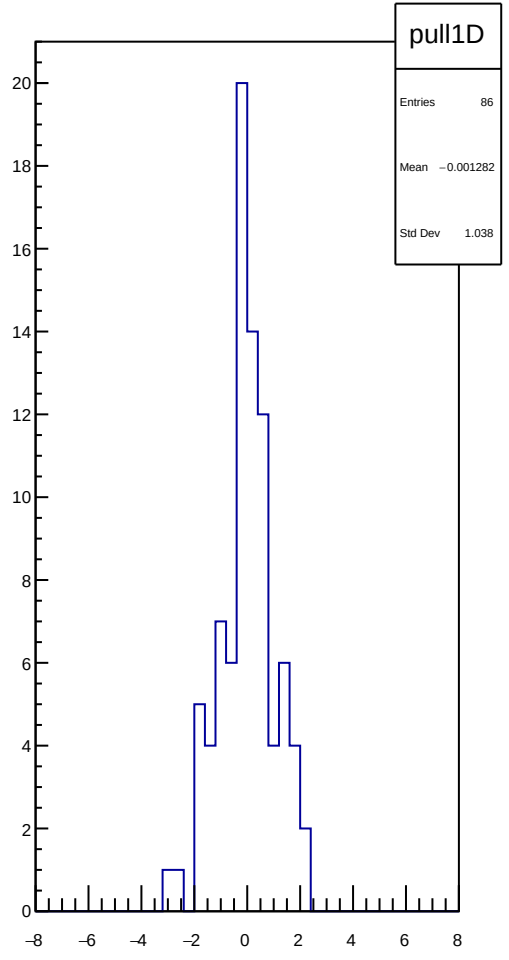

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 7772 / 85
p0 1380 ± 1.066
1600
1500
1400
1300
1200

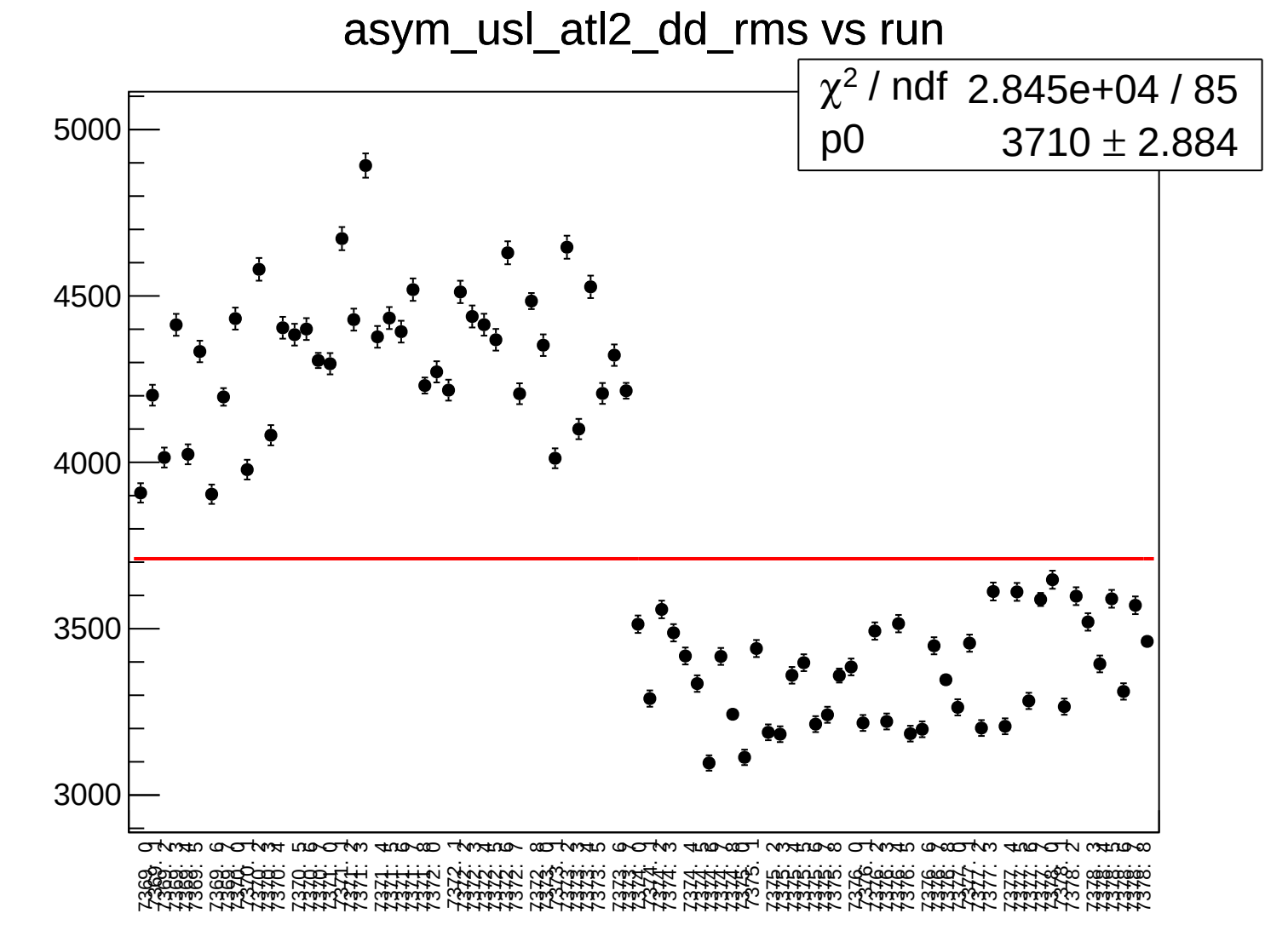

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.35 / 85
p0 5229 ± 4786
pull
Entries 86
Mean −340.8
Std Dev 0

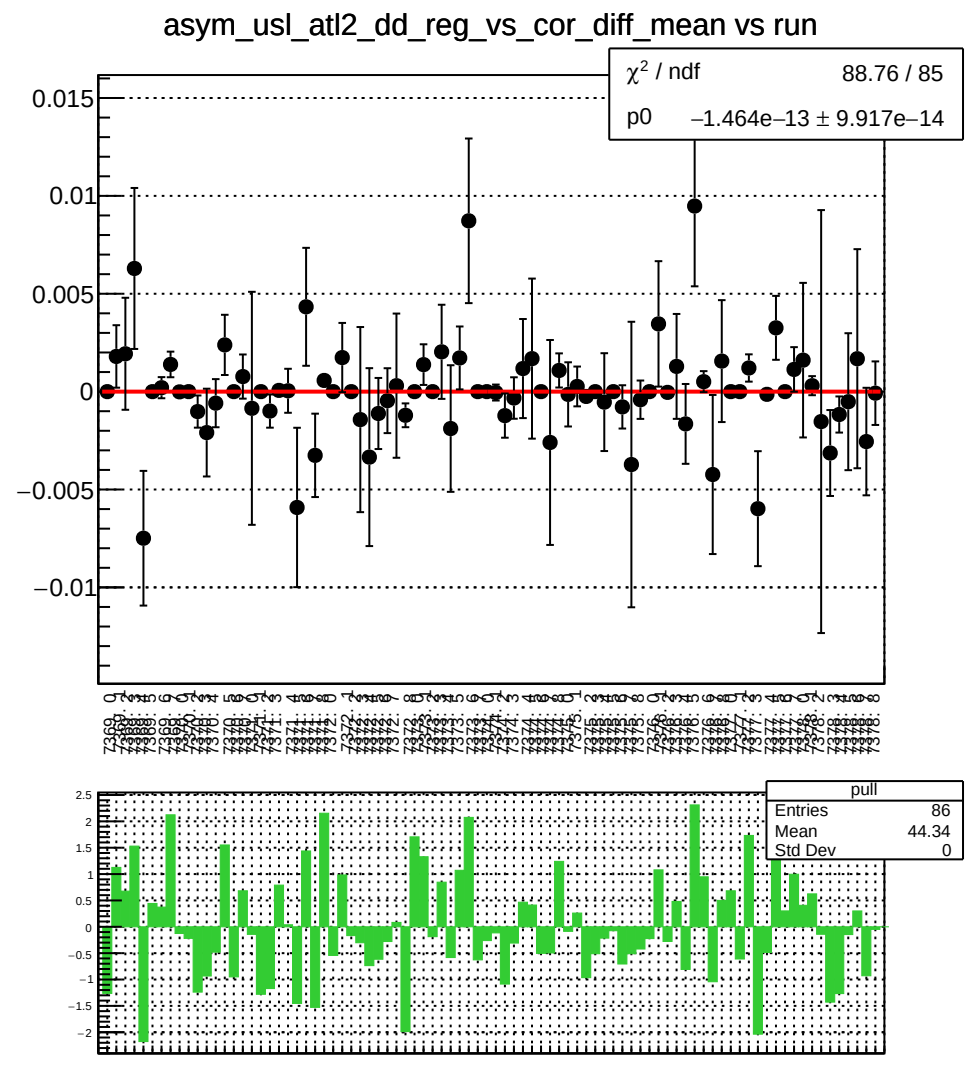

pull1D
Entries 86
Mean −0.002971
Std Dev 1.064

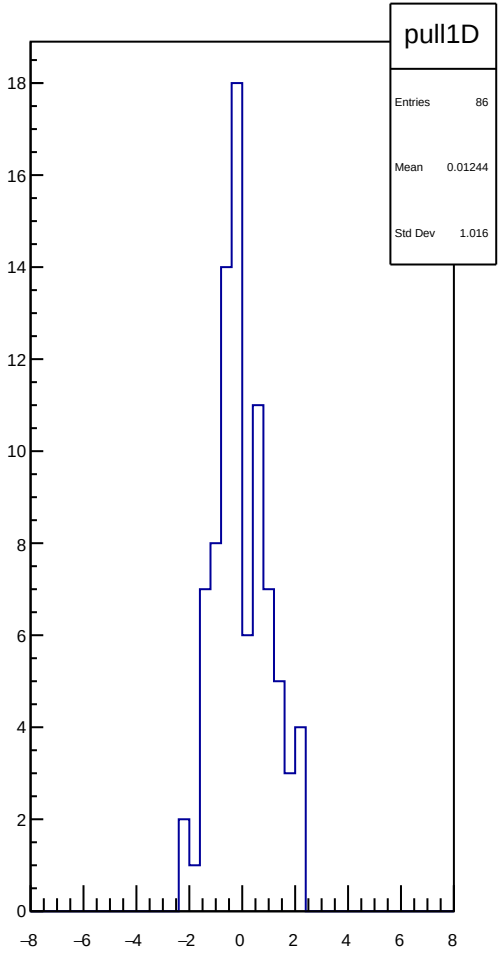

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.07e+04 / 85
p0 4352 ± 3.384
6000
5500
5000
4500
4000
3500

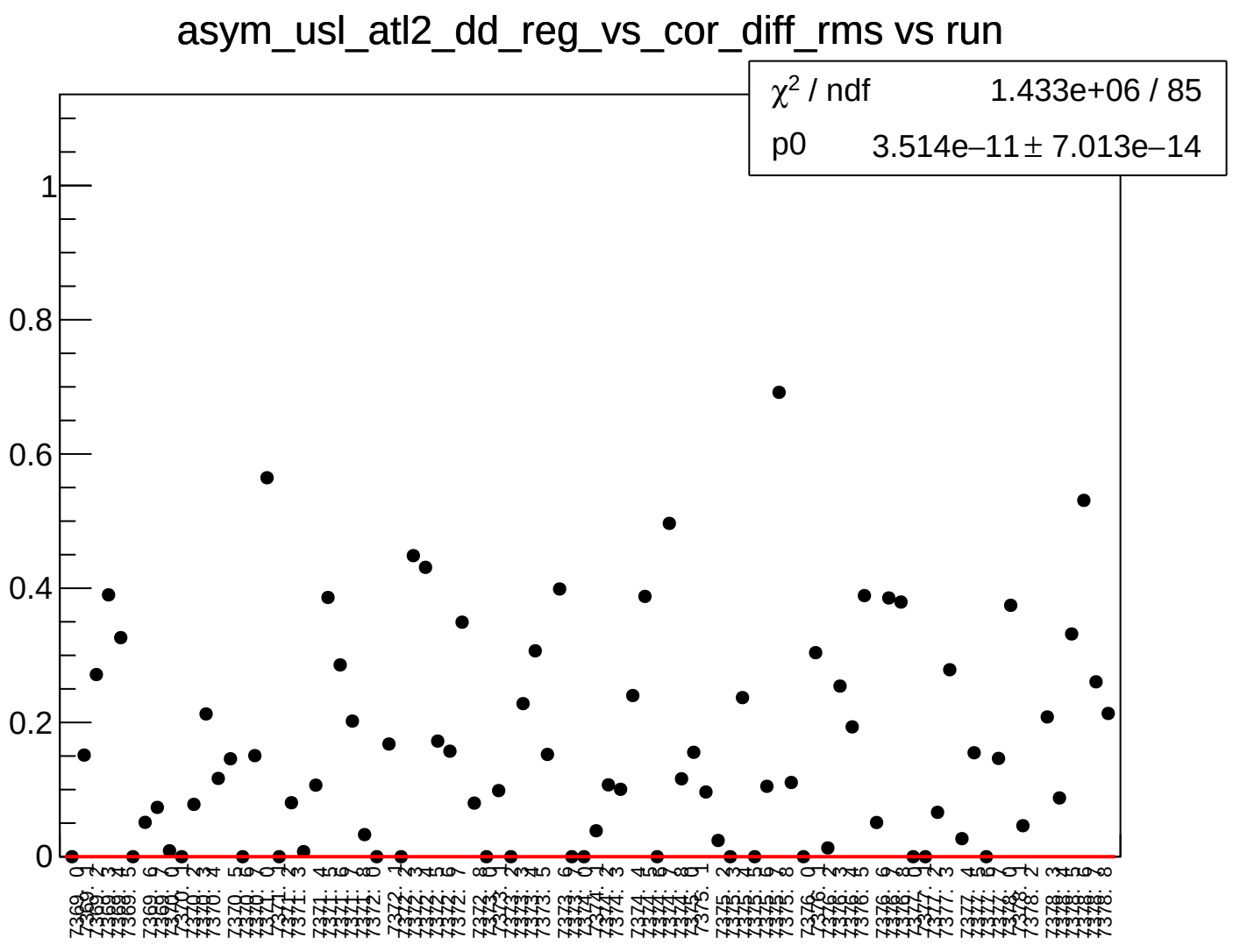

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 92.69 / 85
p0 −3430 ± 4078
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −134.7
Std Dev 231.5
2
1
0
−1
−2
−3

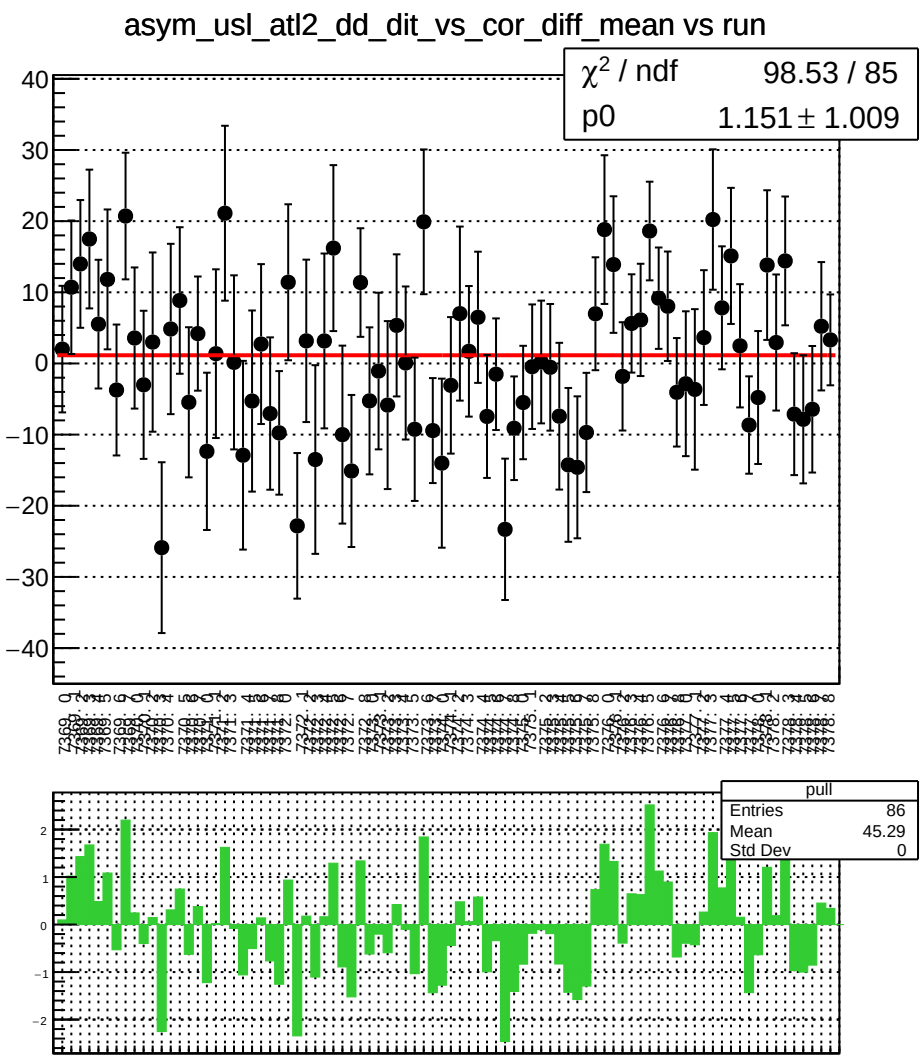

pull1D
Entries 86
Mean −0.001282
Std Dev 1.038
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

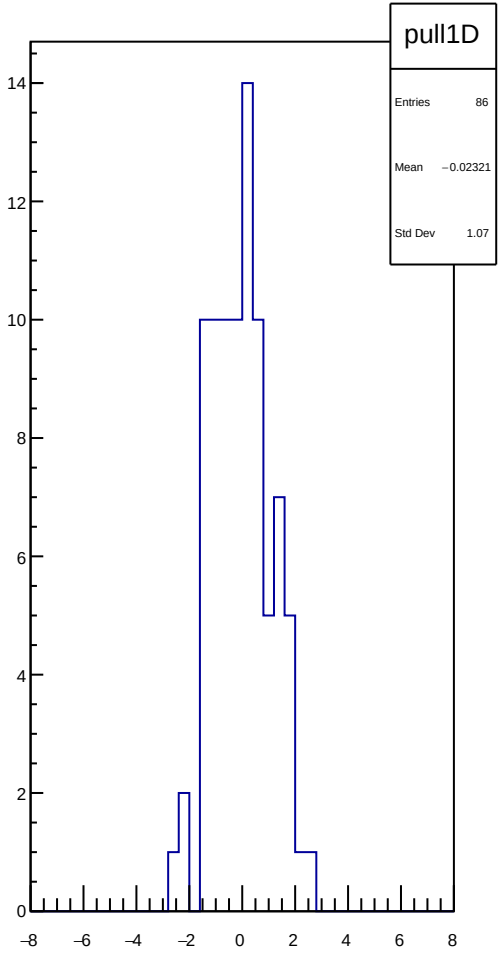

asym_usl_atl2_dd_rms vs run
χ² / ndf 2.845e+04 / 85
p0 3710 ± 2.884
5000
4500
4000
3500
3000

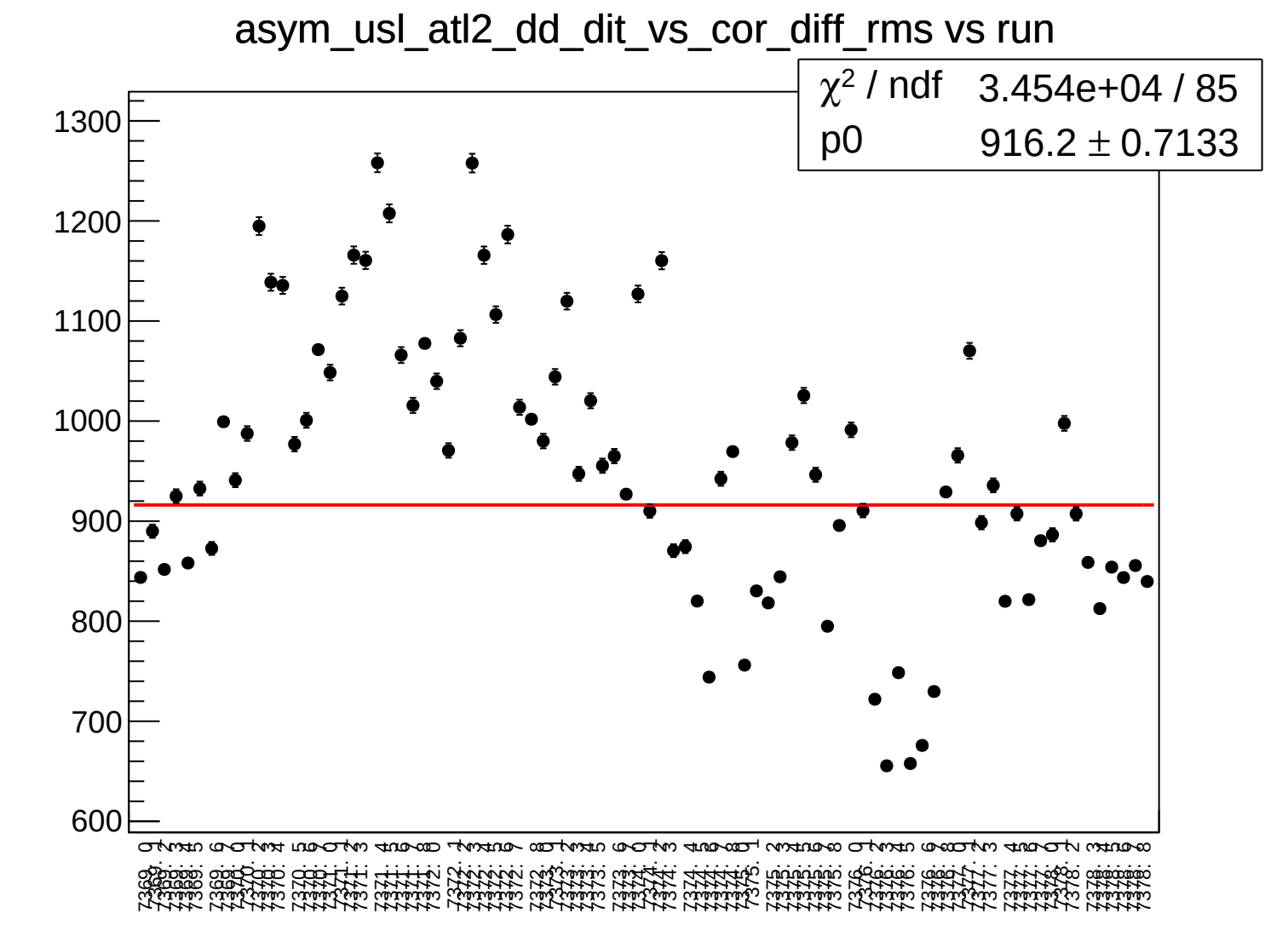

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.76 / 85
p0 −1.464e−13 ± 9.917e−14
pull
Entries 86
Mean 44.34
Std Dev 0

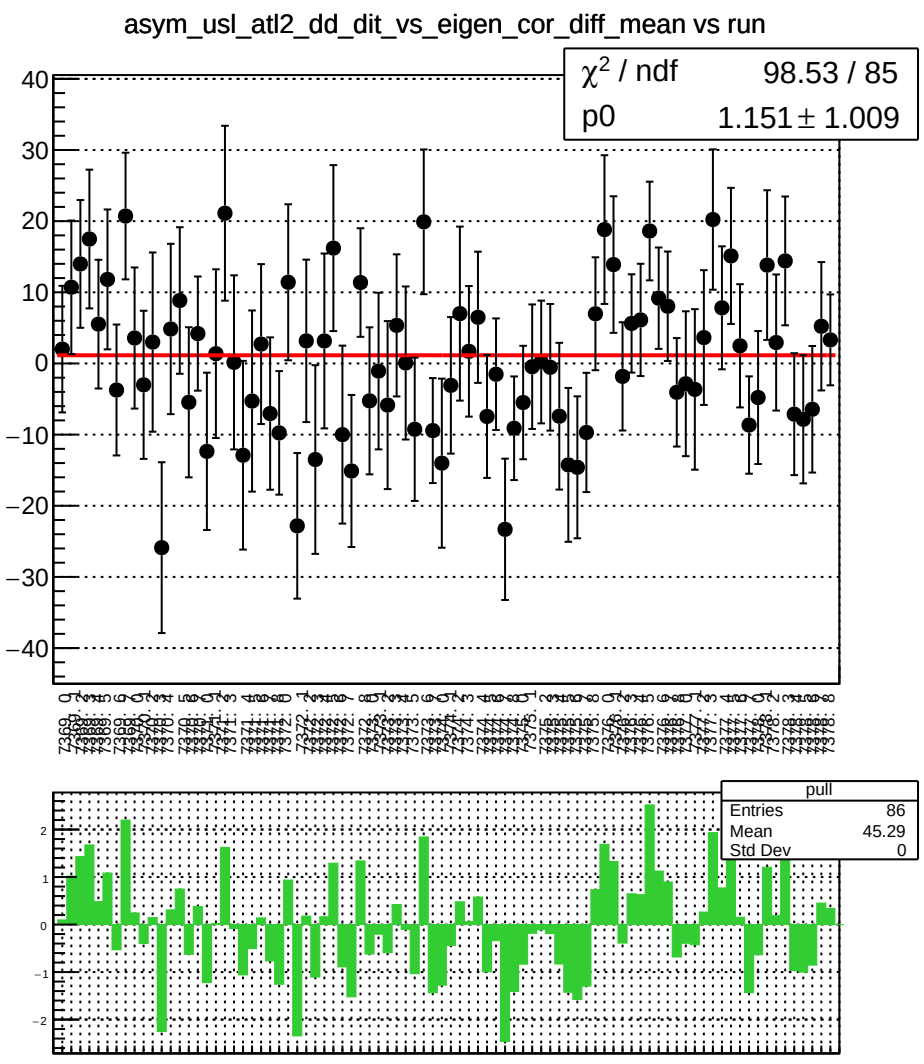

pull1D
Entries 86
Mean 0.01244
Std Dev 1.016

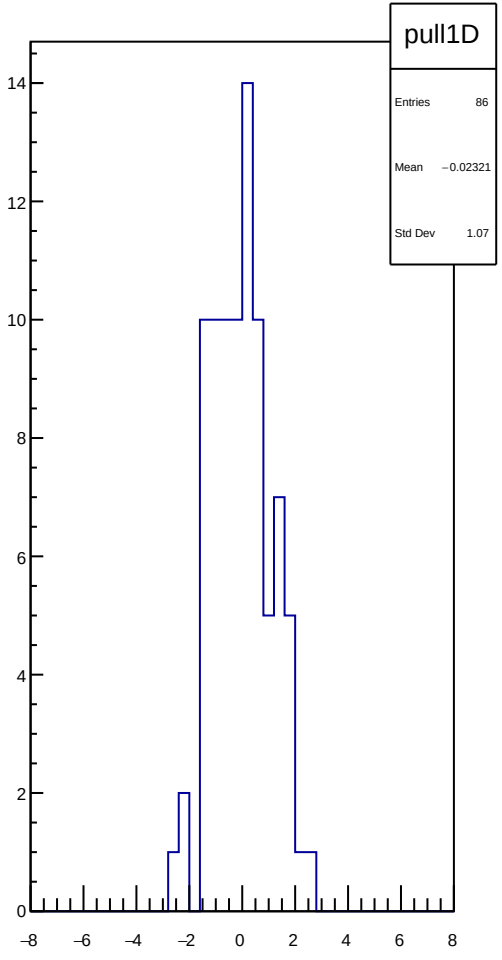

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.433e+06 / 85
p0 3.514e−11 ± 7.013e−14
1
0.8
0.6
0.4
0.2
0

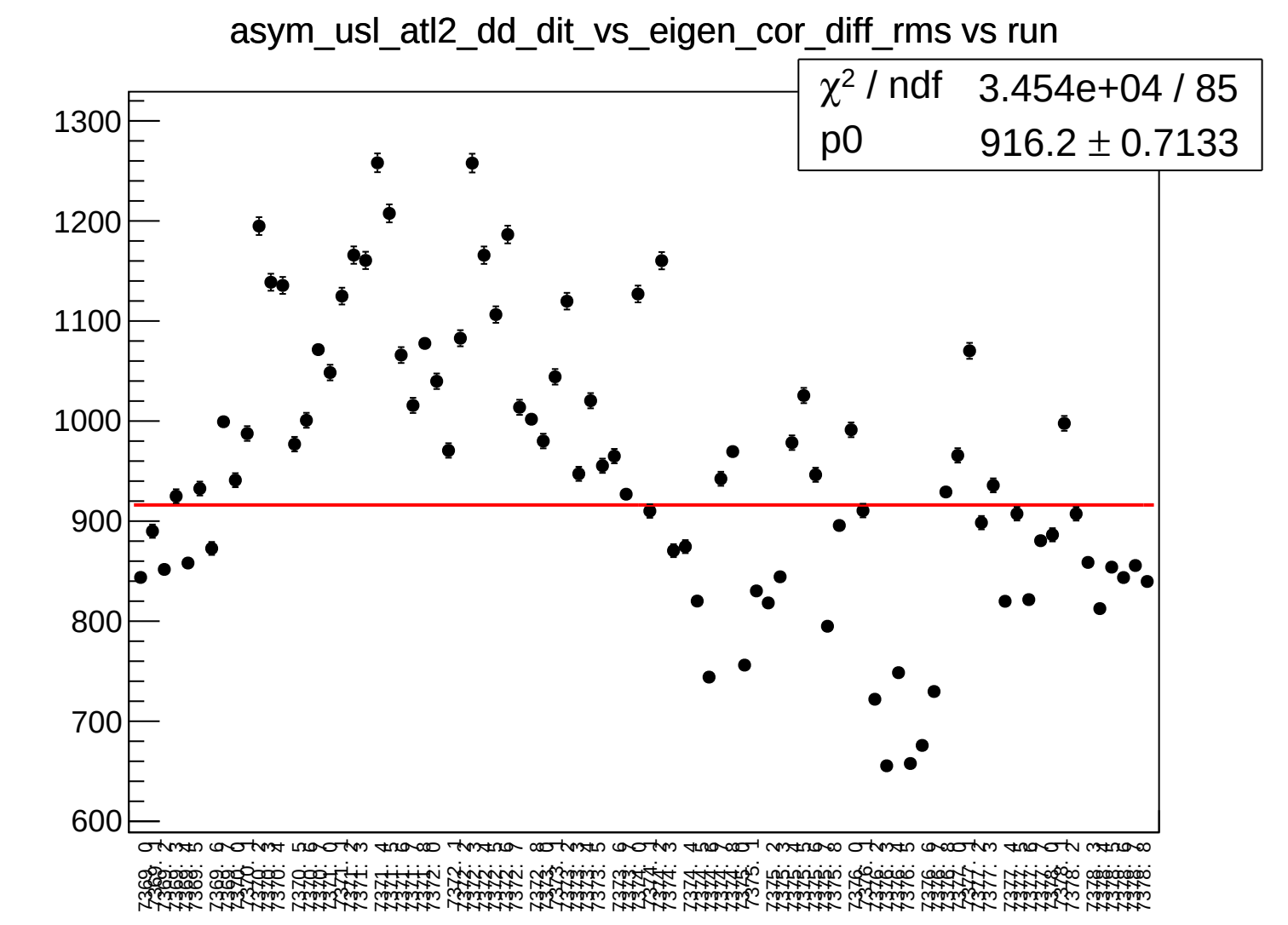

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.53 / 85
p0 1.151 ± 1.009
pull
Entries 86
Mean 45.29
Std Dev 0

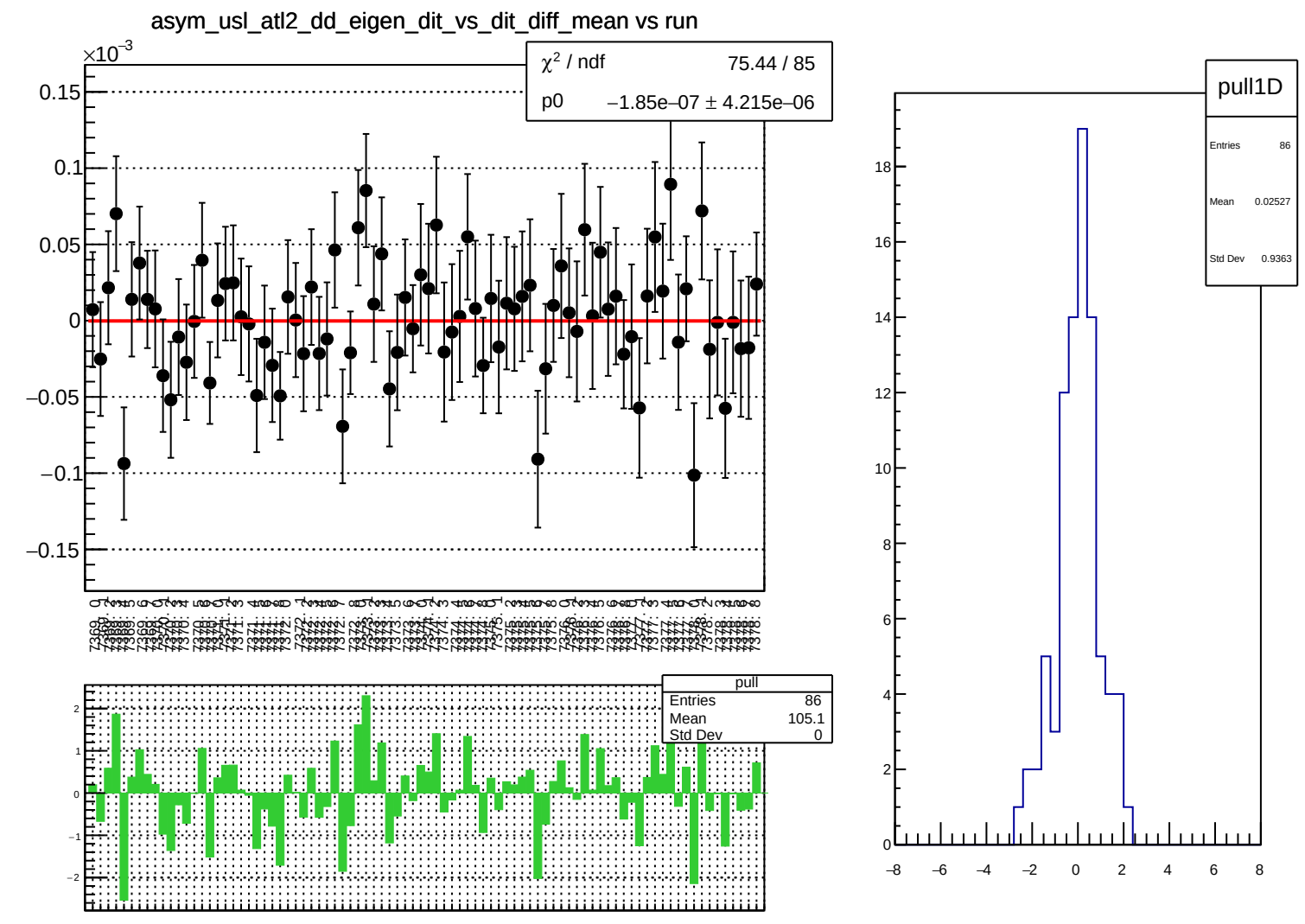

pull1D
Entries 86
Mean −0.02321
Std Dev 1.07

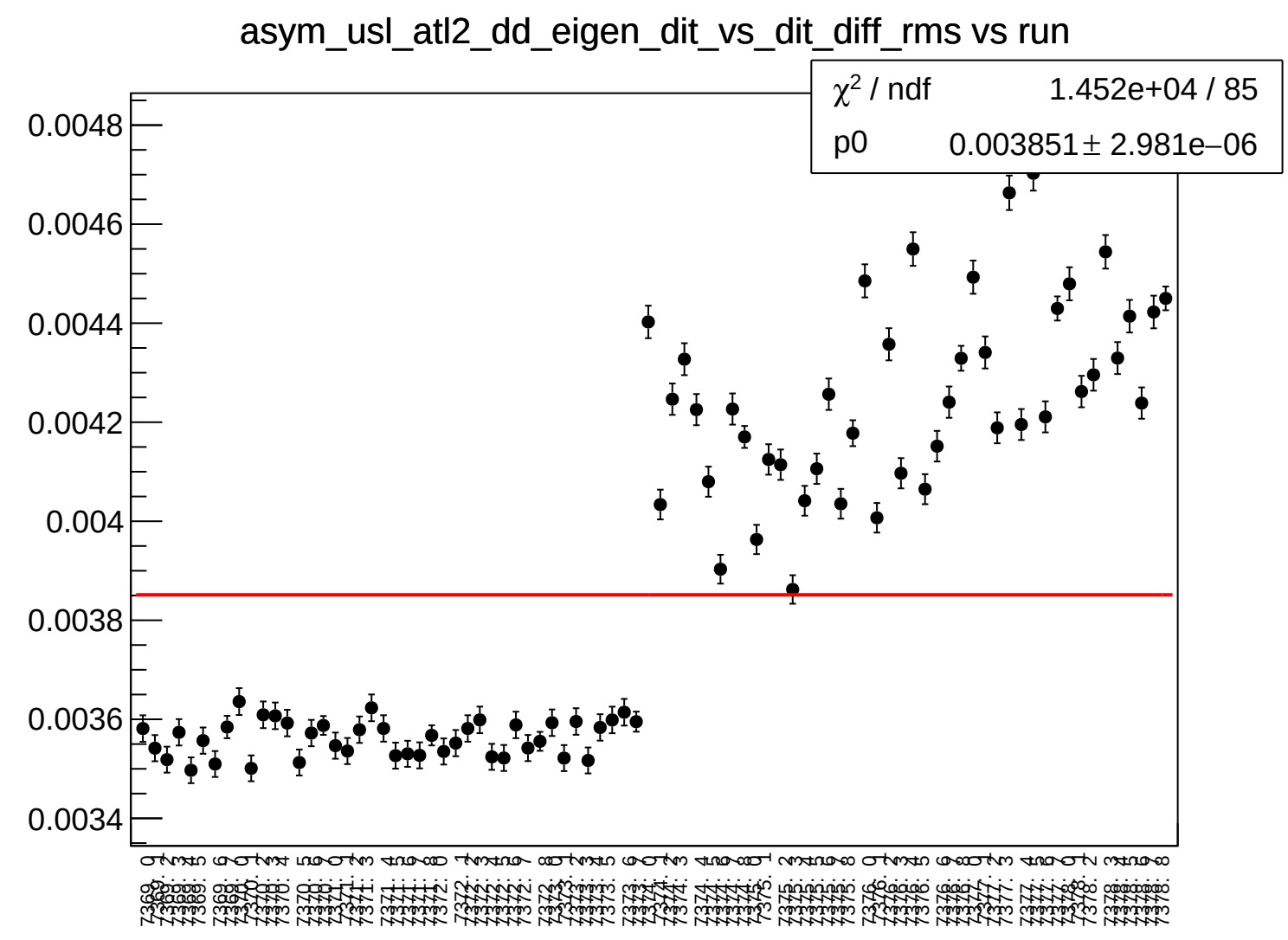

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.454e+04 / 85
p0 916.2 ± 0.7133
1300
1200
1100
1000
900
800
700
600

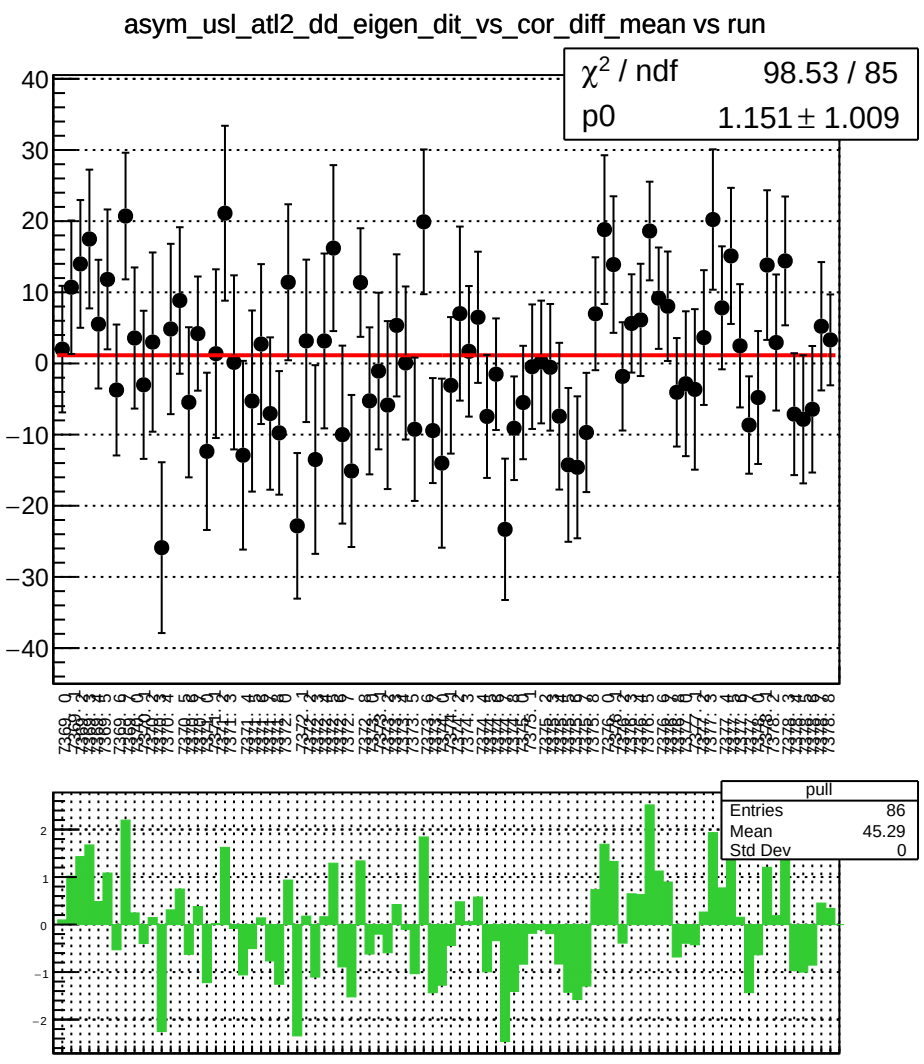

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.53 / 85
p0 1.151 ± 1.009
pull
Entries 86
Mean 45.29
Std Dev 0

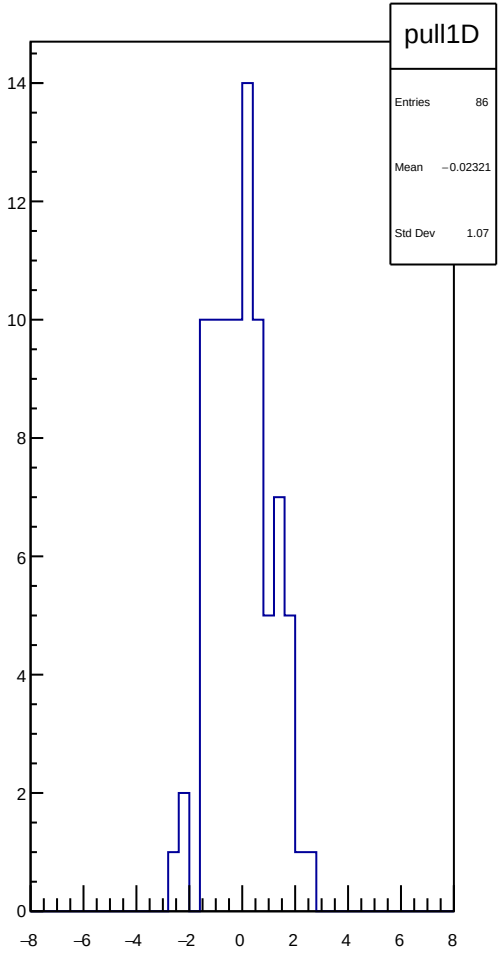

pull1D
Entries 86
Mean −0.02321
Std Dev 1.07

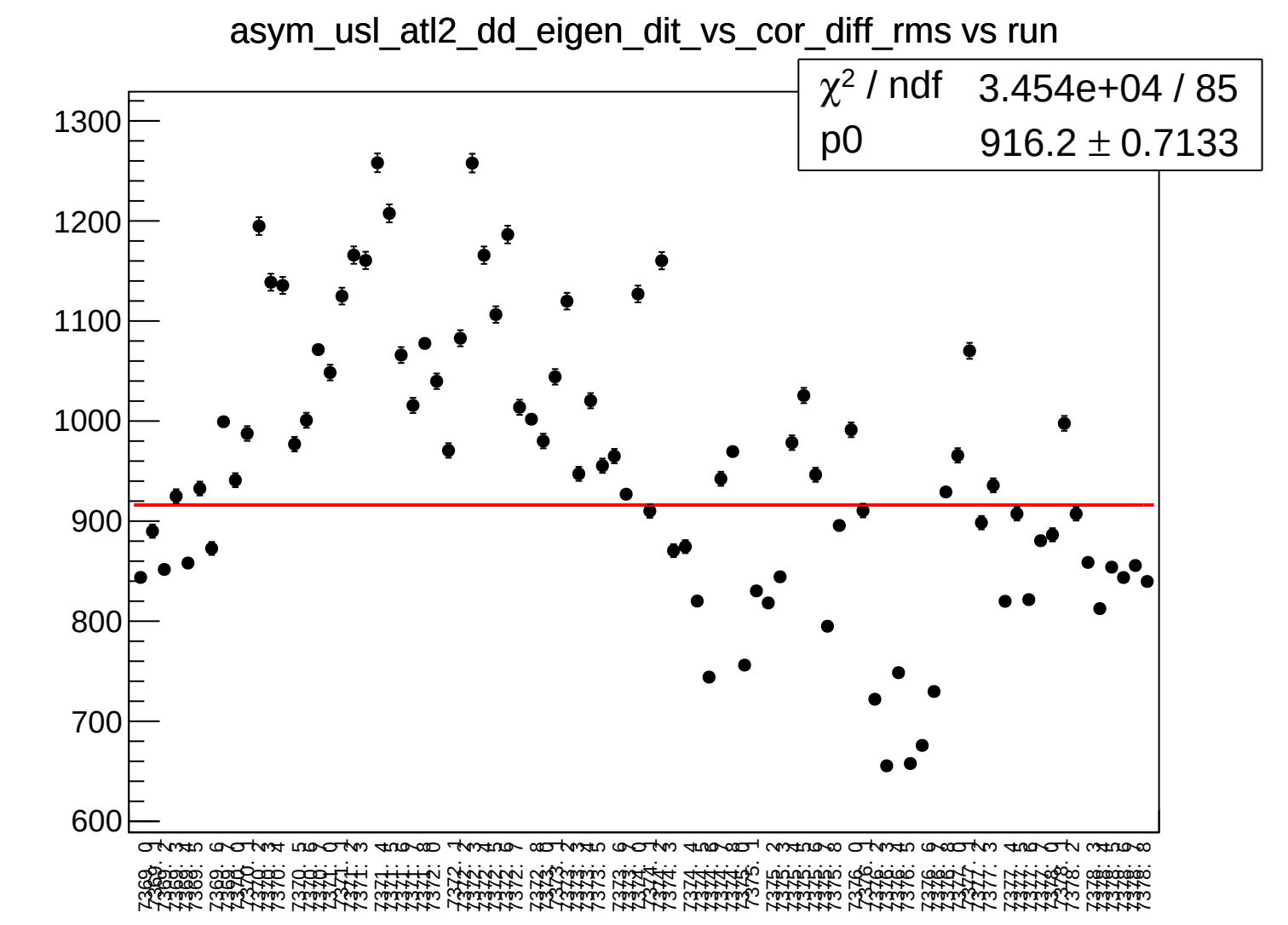

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.454e+04 / 85
p0 916.2 ± 0.7133
1300
1200
1100
1000
900
800
700
600

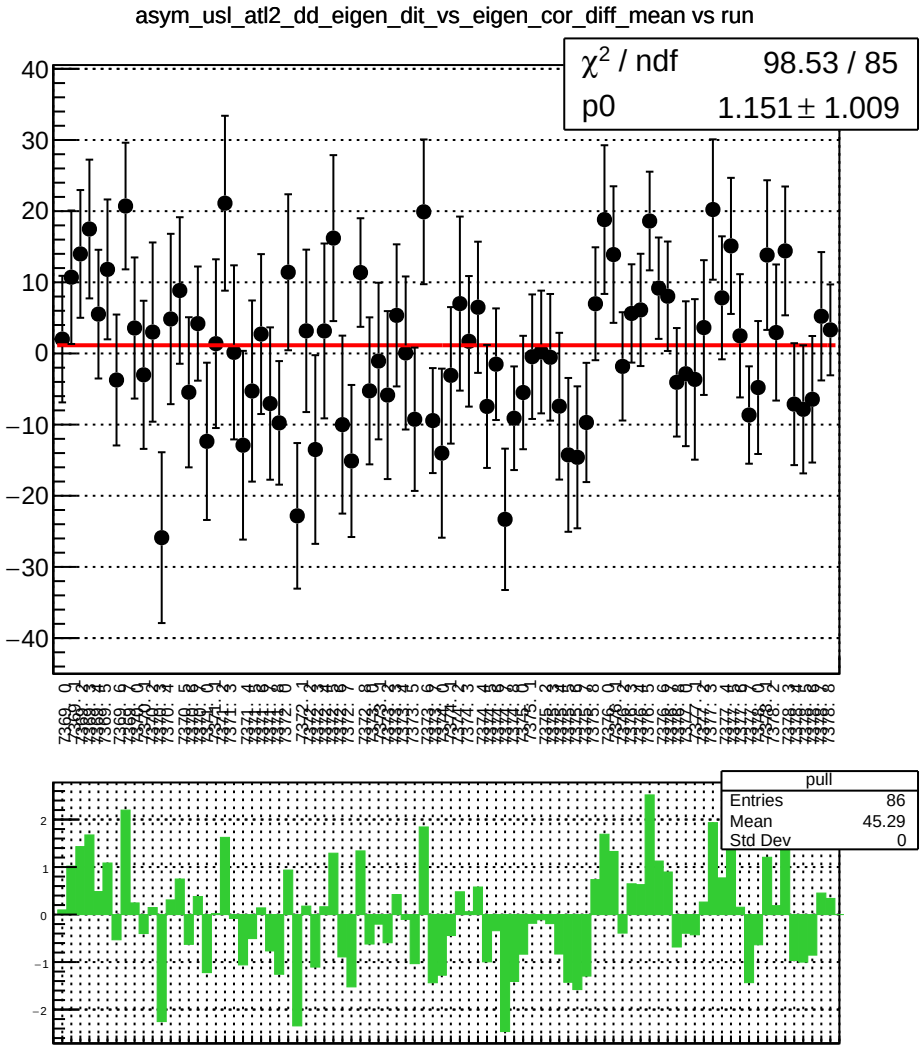

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.44 / 85
p0 −1.85e−07 ± 4.215e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 105.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.02527
Std Dev 0.9363
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

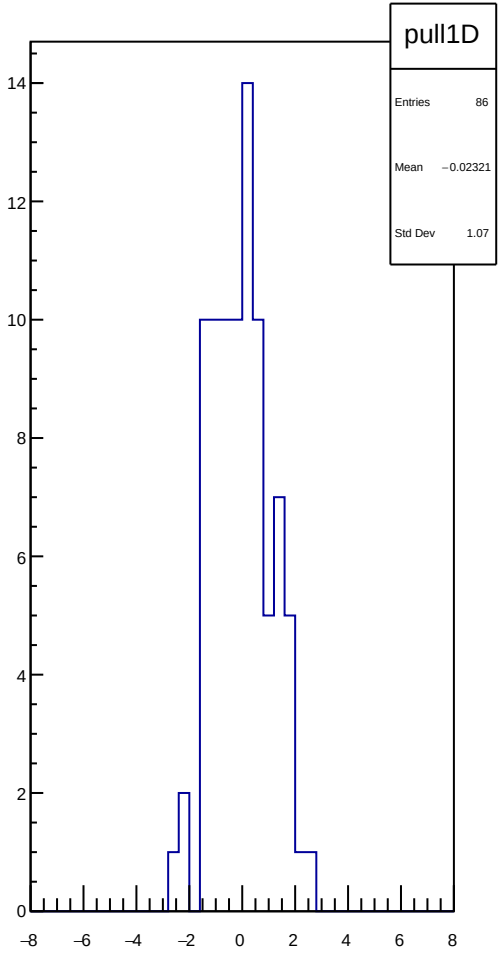

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.452e+04 / 85
p0 0.003851 ± 2.981e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

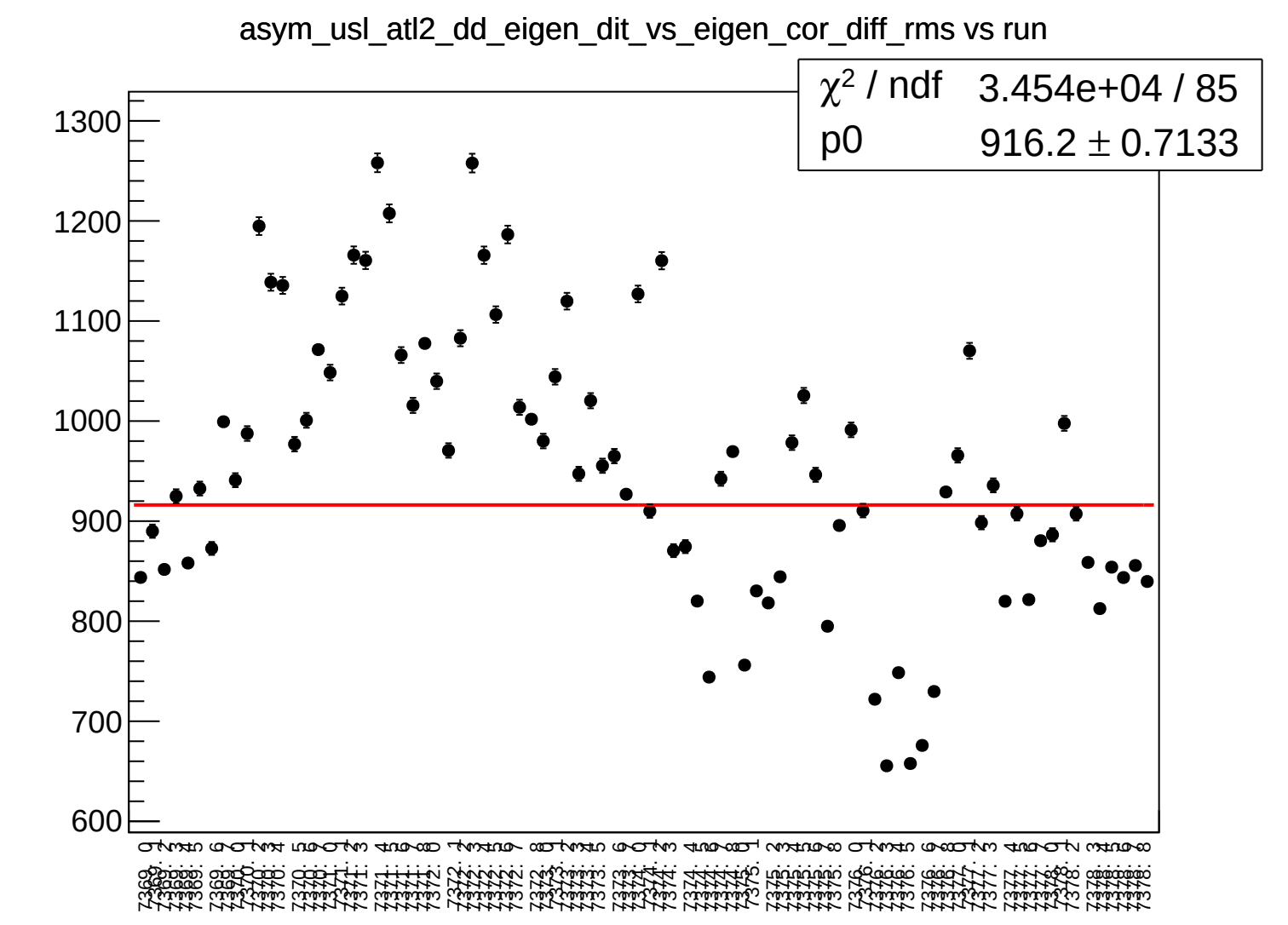

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.53 / 85
p0 1.151 ± 1.009
pull
Entries 86
Mean 45.29
Std Dev 0

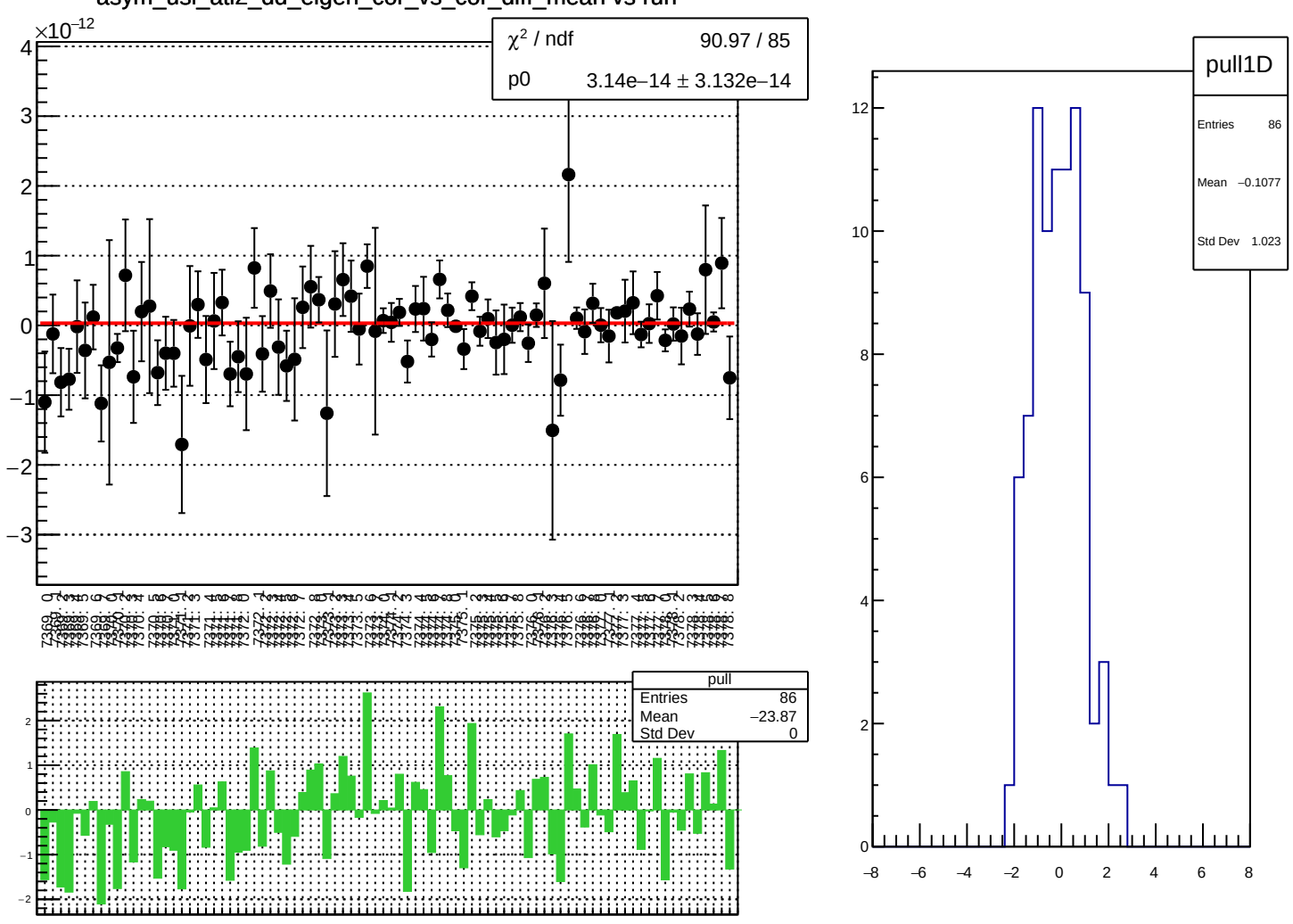

pull1D
Entries 86
Mean −0.02321
Std Dev 1.07

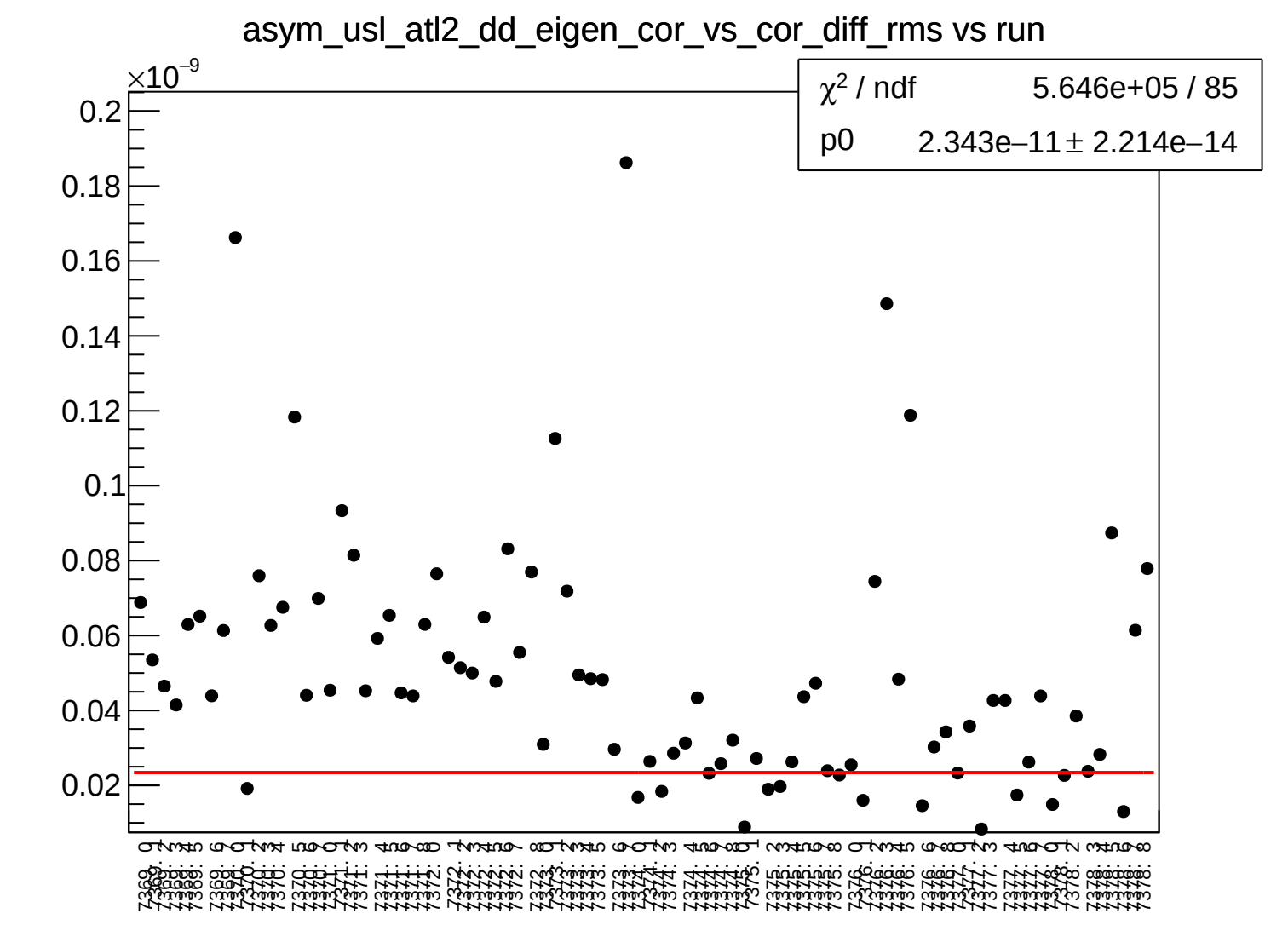

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.454e+04 / 85
p0 916.2 ± 0.7133
1300
1200
1100
1000
900
800
700
600

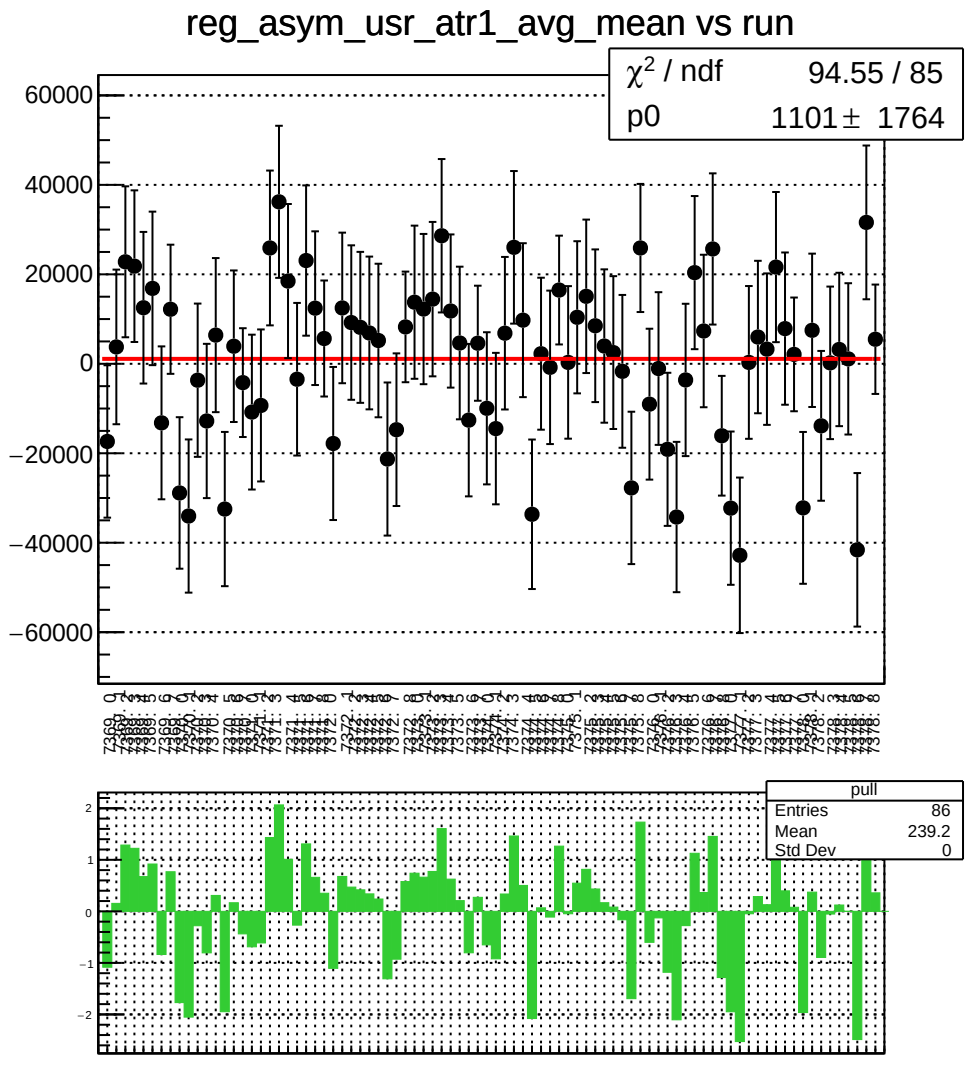

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.53 / 85
p0 1.151 ± 1.009
pull
Entries 86
Mean 45.29
Std Dev 0

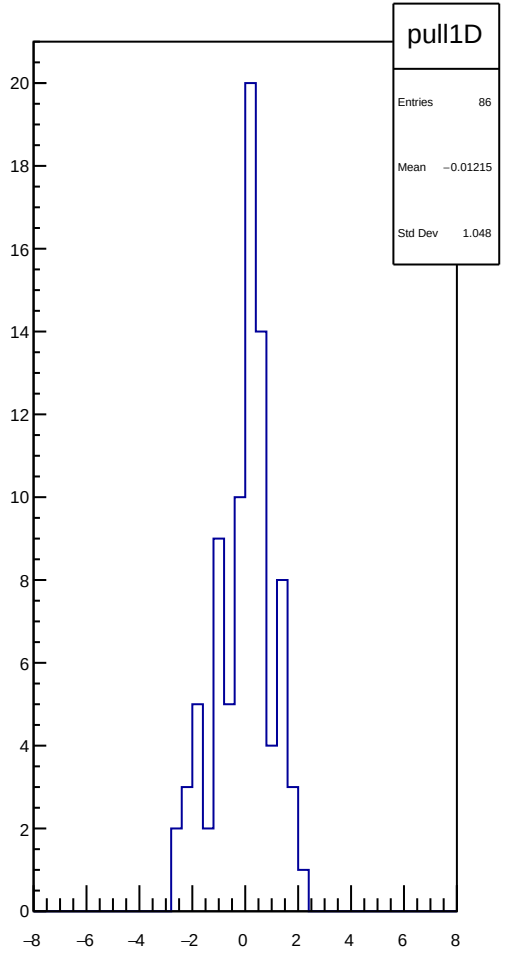

pull1D
Entries 86
Mean −0.02321
Std Dev 1.07

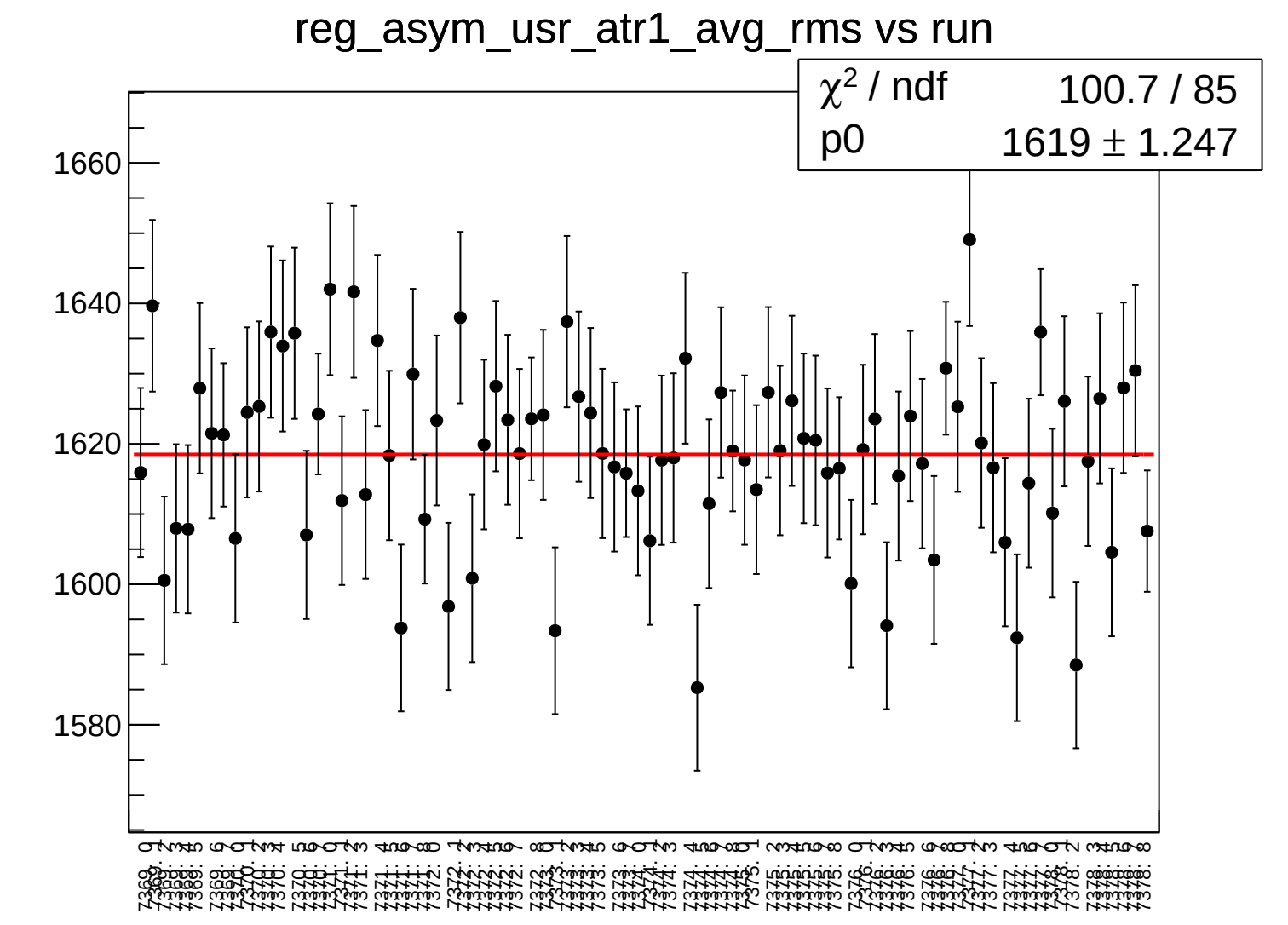

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.454e+04 / 85
p0 916.2 ± 0.7133
1300
1200
1100
1000
900
800
700
600

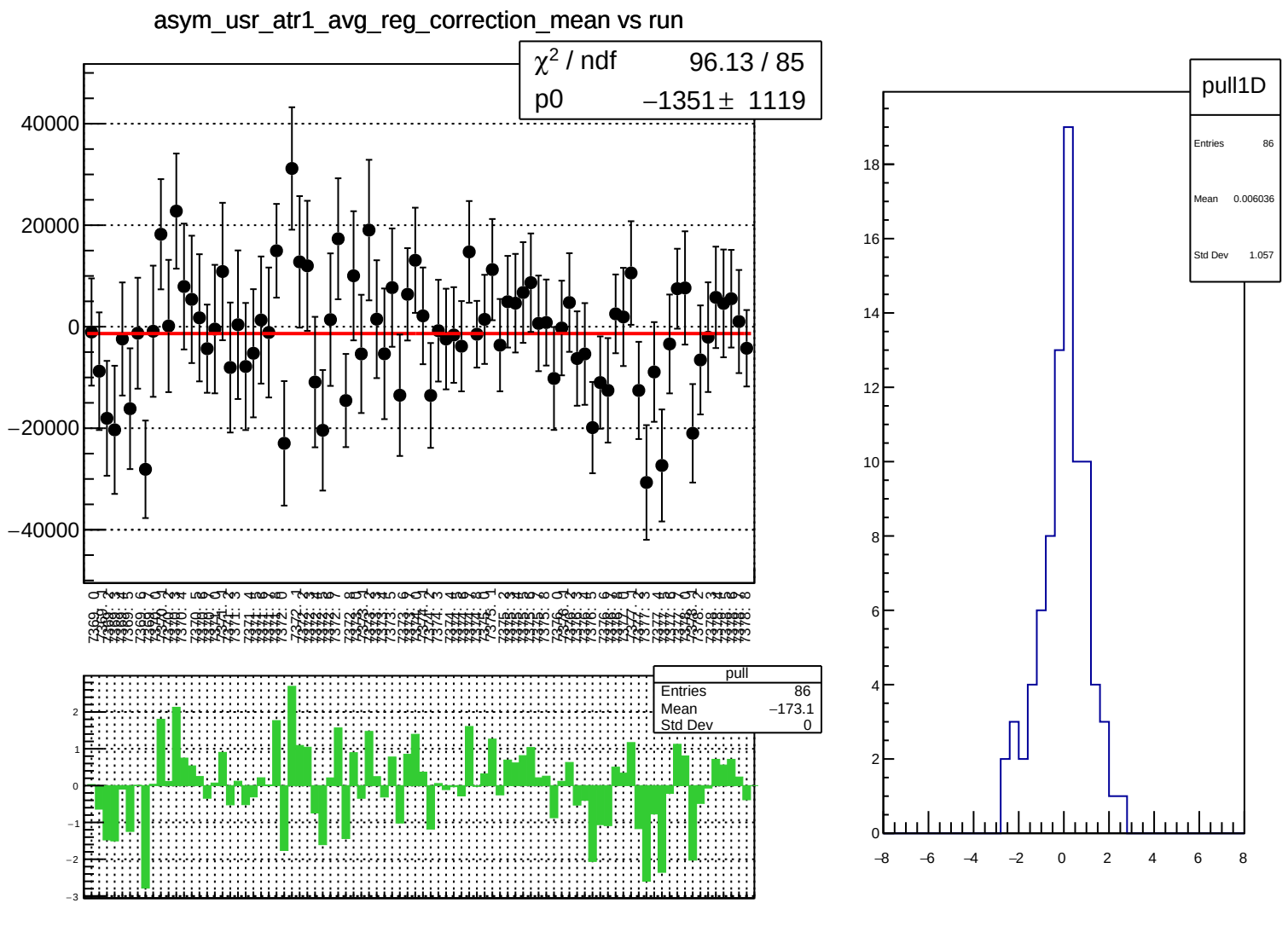

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.97 / 85
p0 3.14e−14 ± 3.132e−14
pull
Entries 86
Mean −23.87
Std Dev 0
pull1D
Entries 86
Mean −0.1077
Std Dev 1.023

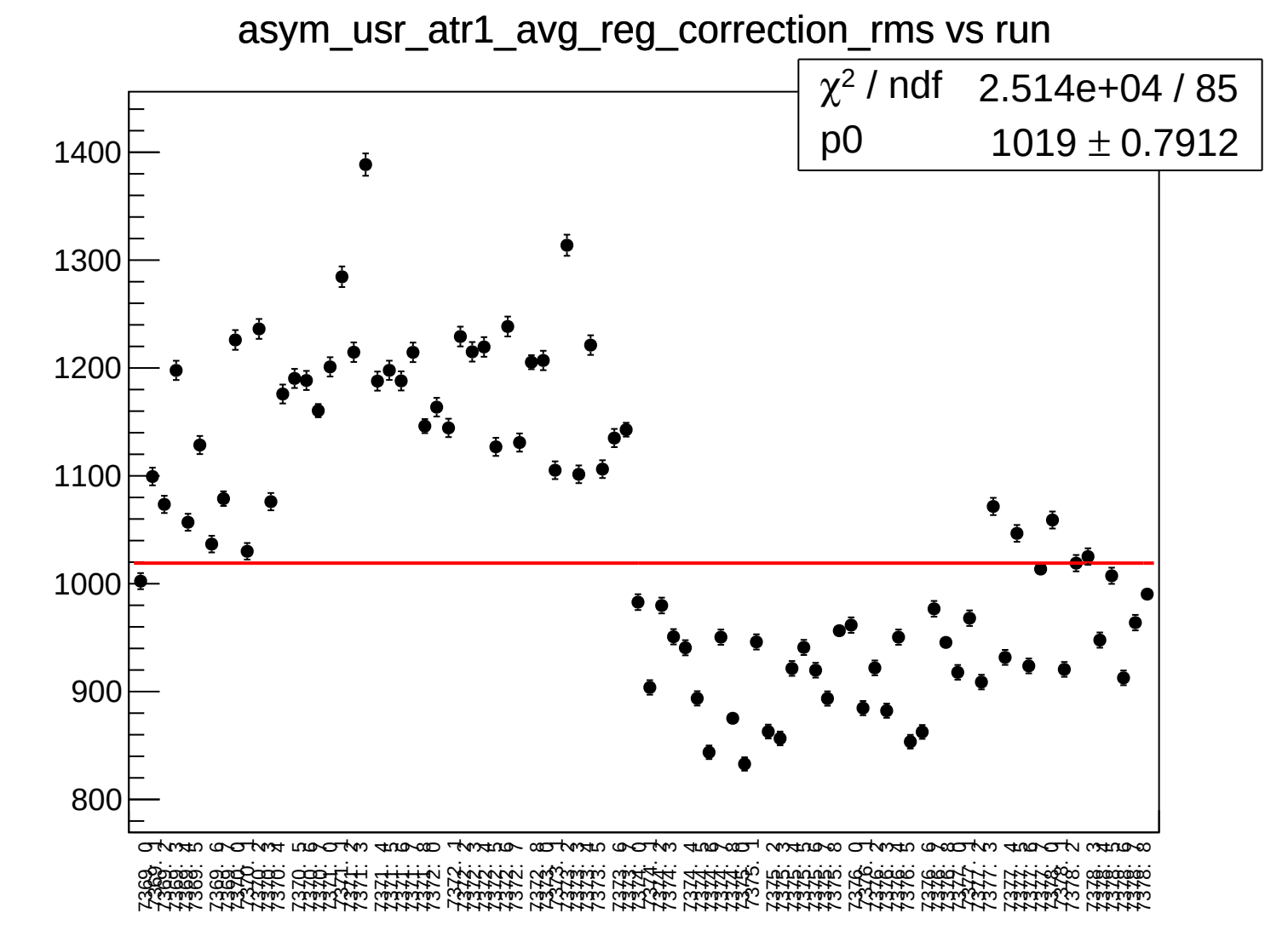

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.646e+05 / 85
p0 2.343e−11 ± 2.214e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

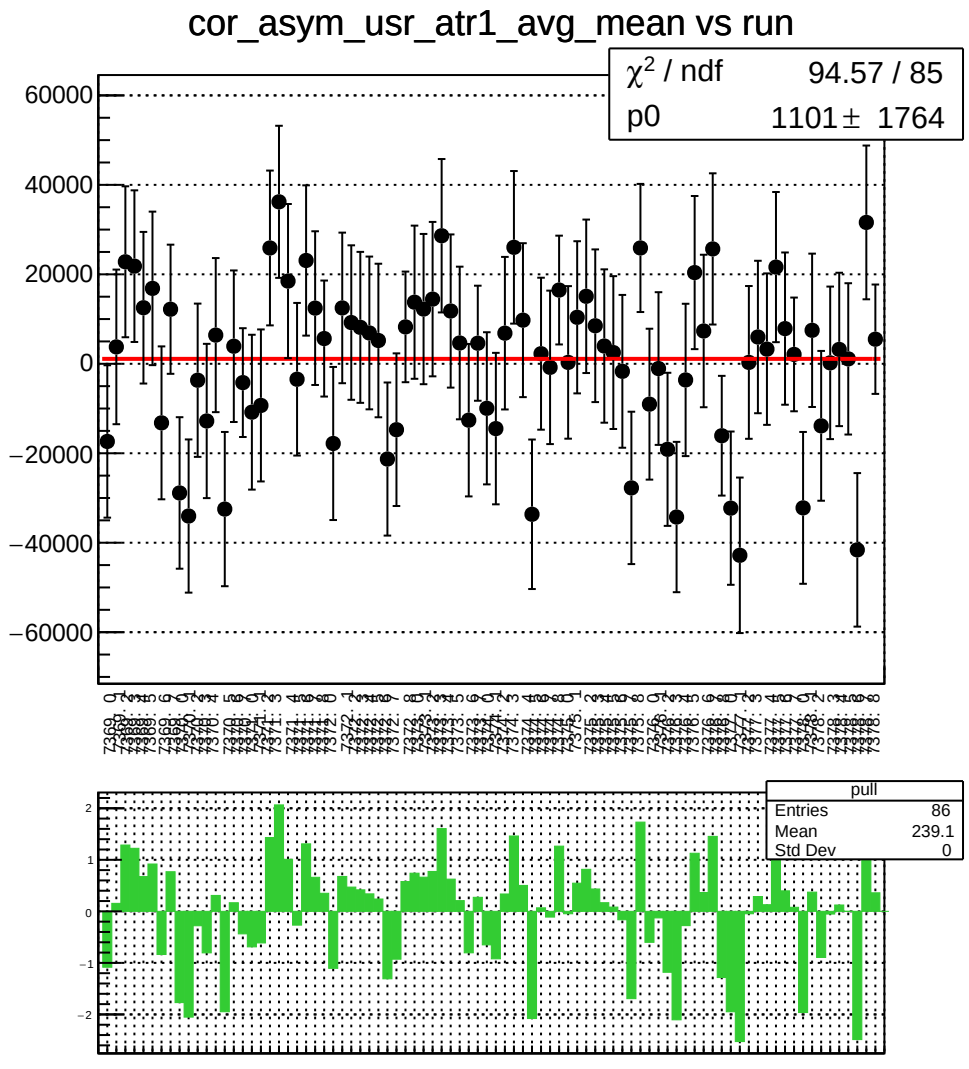

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.55 / 85
p0 1101 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 239.2
Std Dev 0
2
1
0
−1
−2

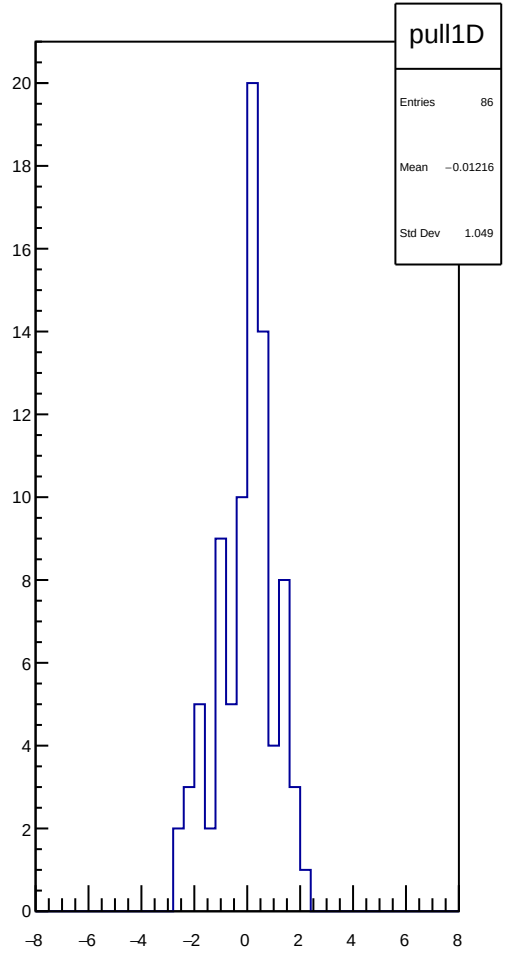

pull1D
Entries 86
Mean −0.01215
Std Dev 1.048
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

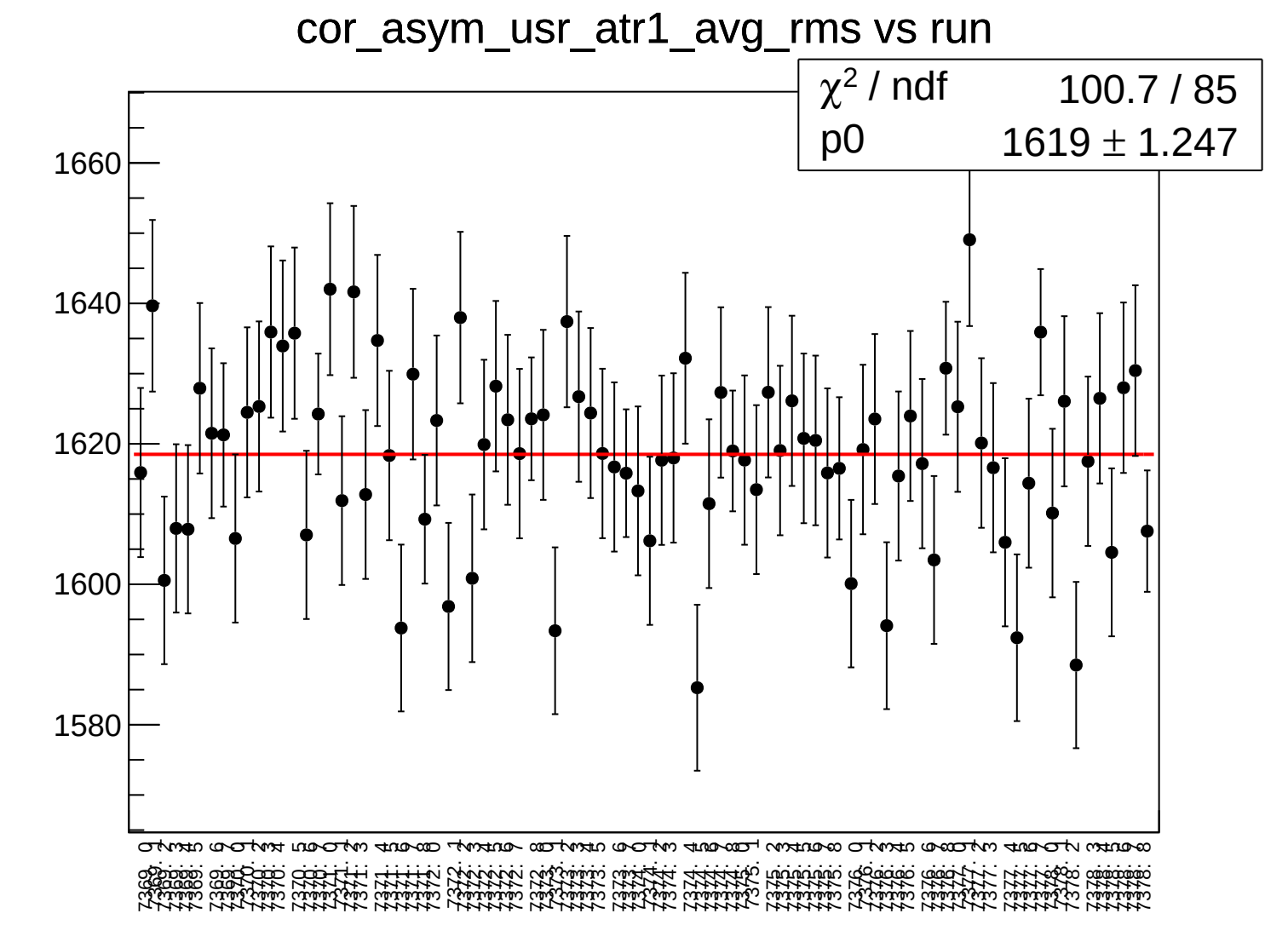

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 100.7 / 85
p0 1619 ± 1.247
1660
1640
1620
1600
1580

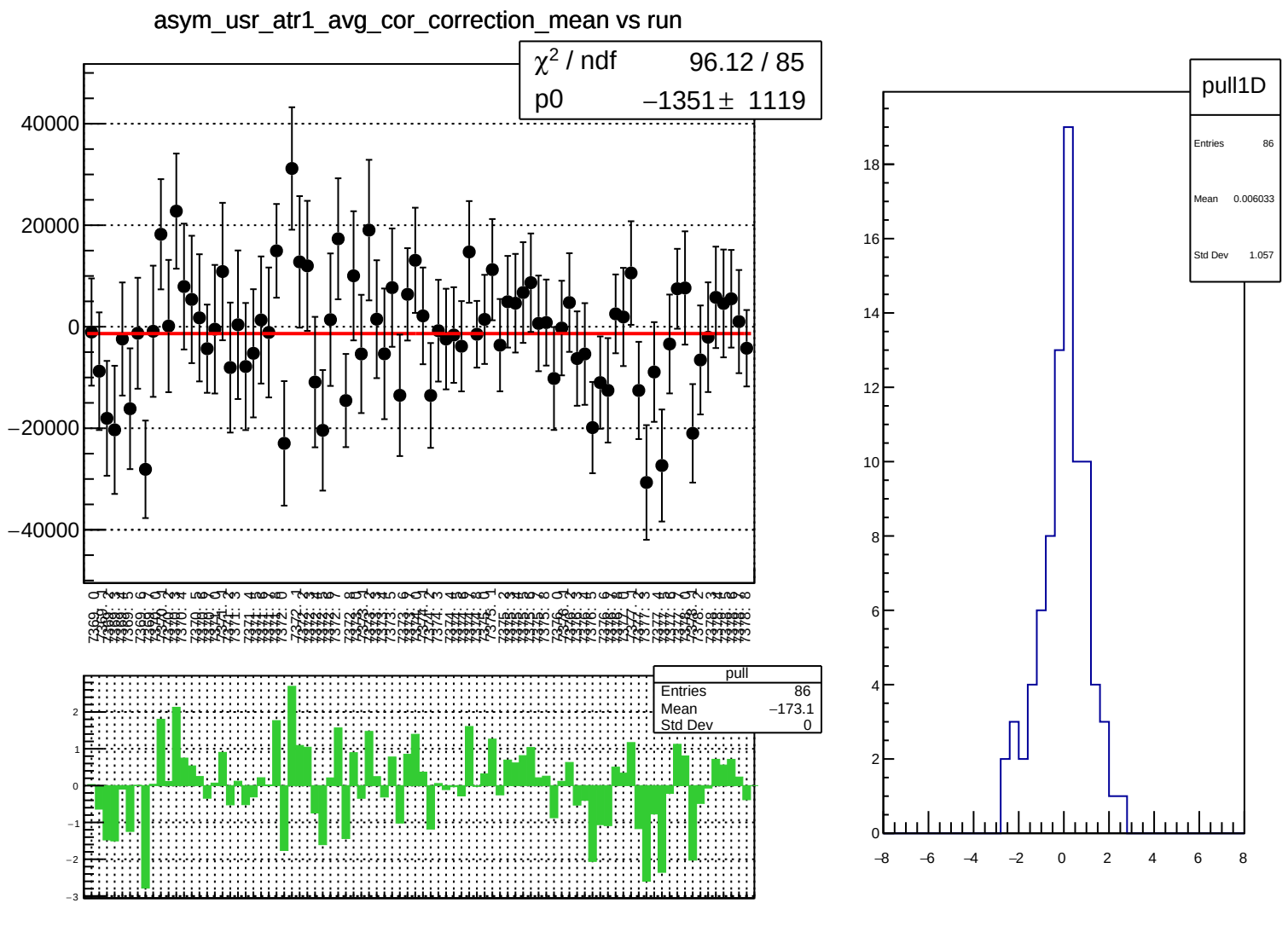

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 96.13 / 85
p0 −1351 ± 1119
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −173.1
Std Dev 0
pull1D
Entries 86
Mean 0.006036
Std Dev 1.057

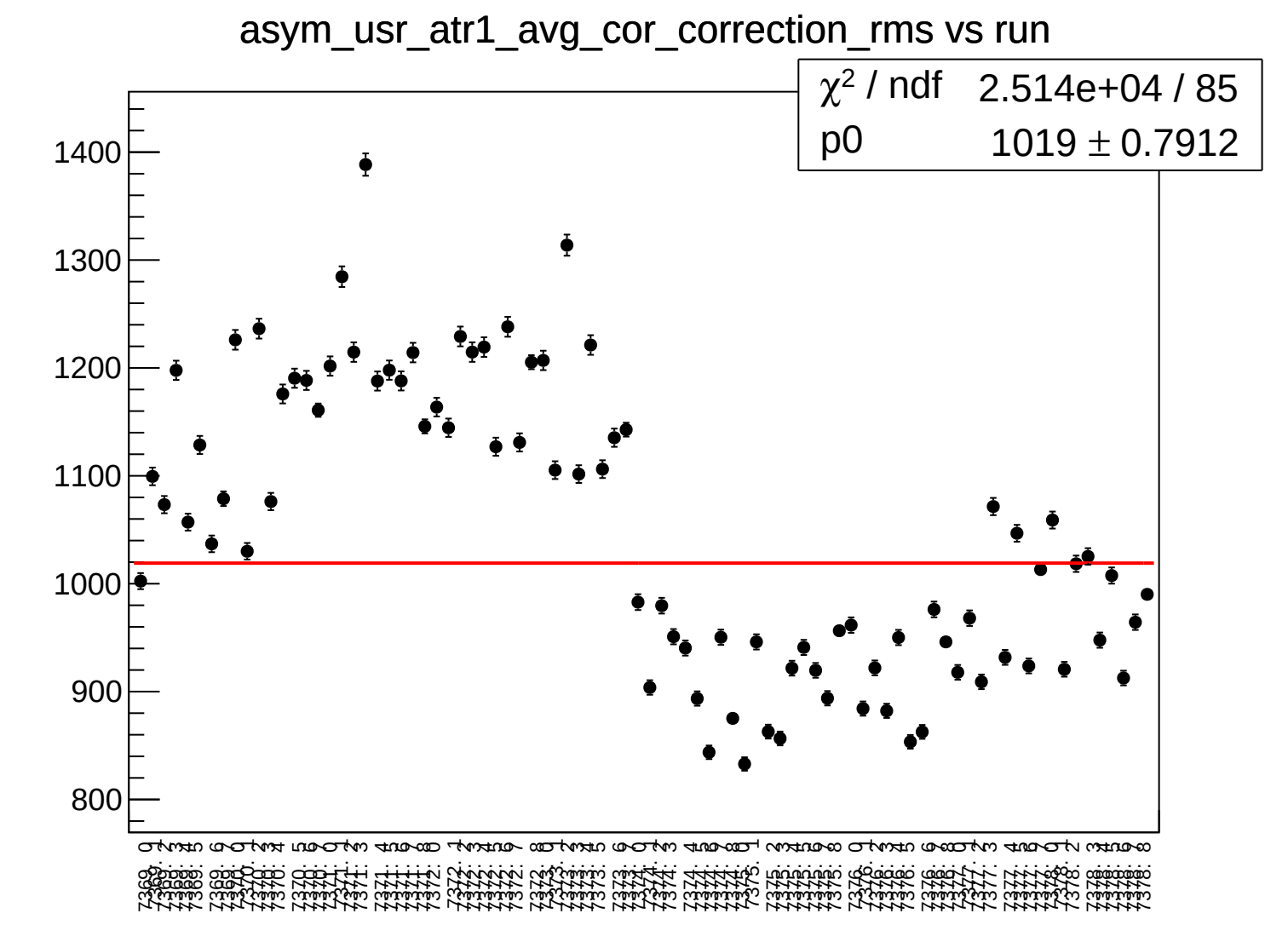

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 2.514e+04 / 85
p0 1019 ± 0.7912
1400
1300
1200
1100
1000
900
800

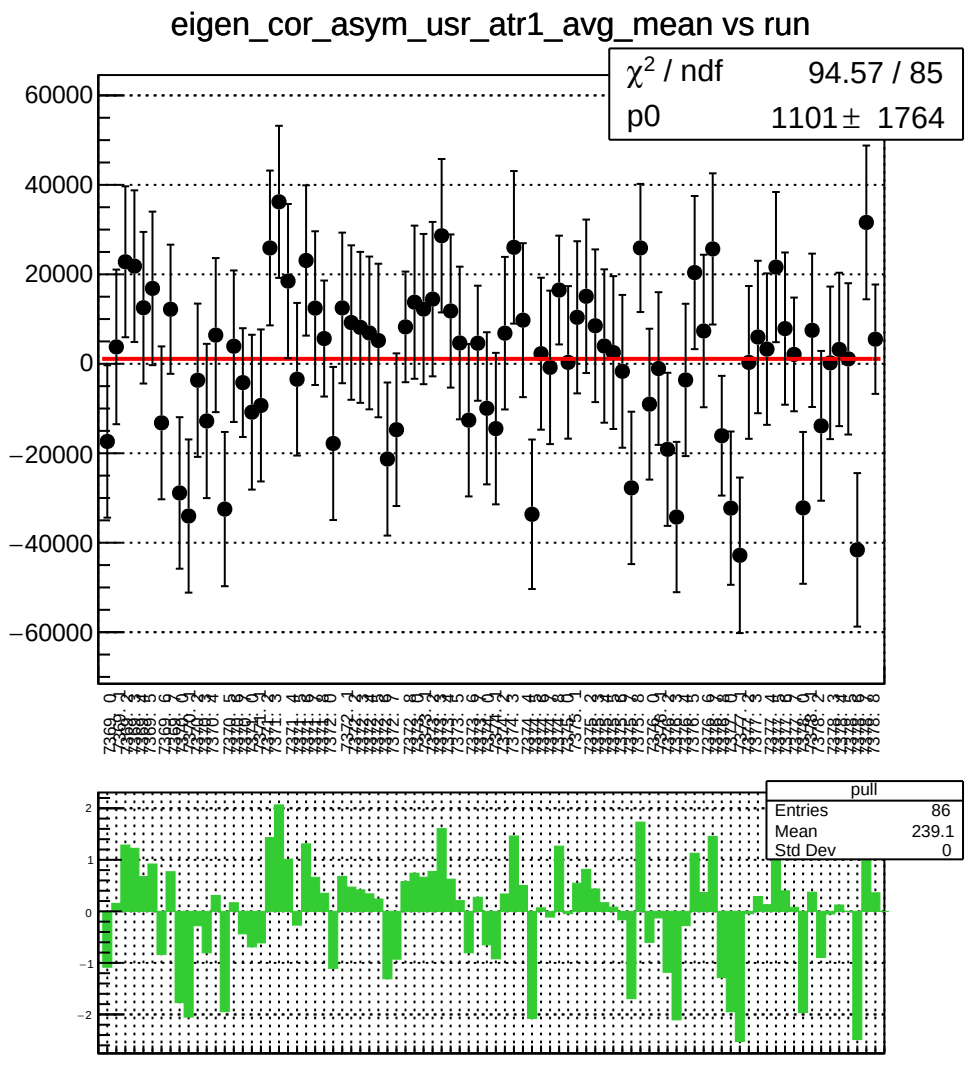

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.57 / 85
p0 1101 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 239.1
Std Dev 0
2
1
0
−1
−2

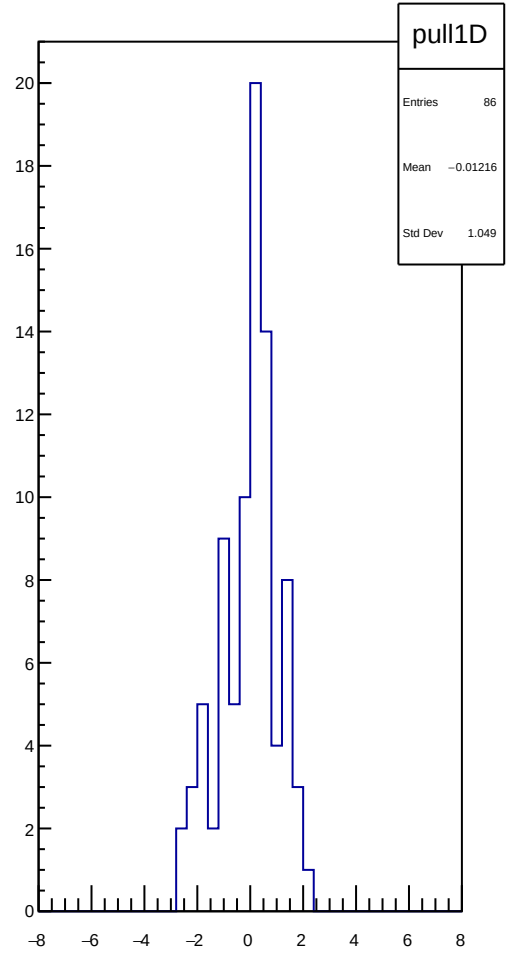

pull1D
Entries 86
Mean −0.01216
Std Dev 1.049
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

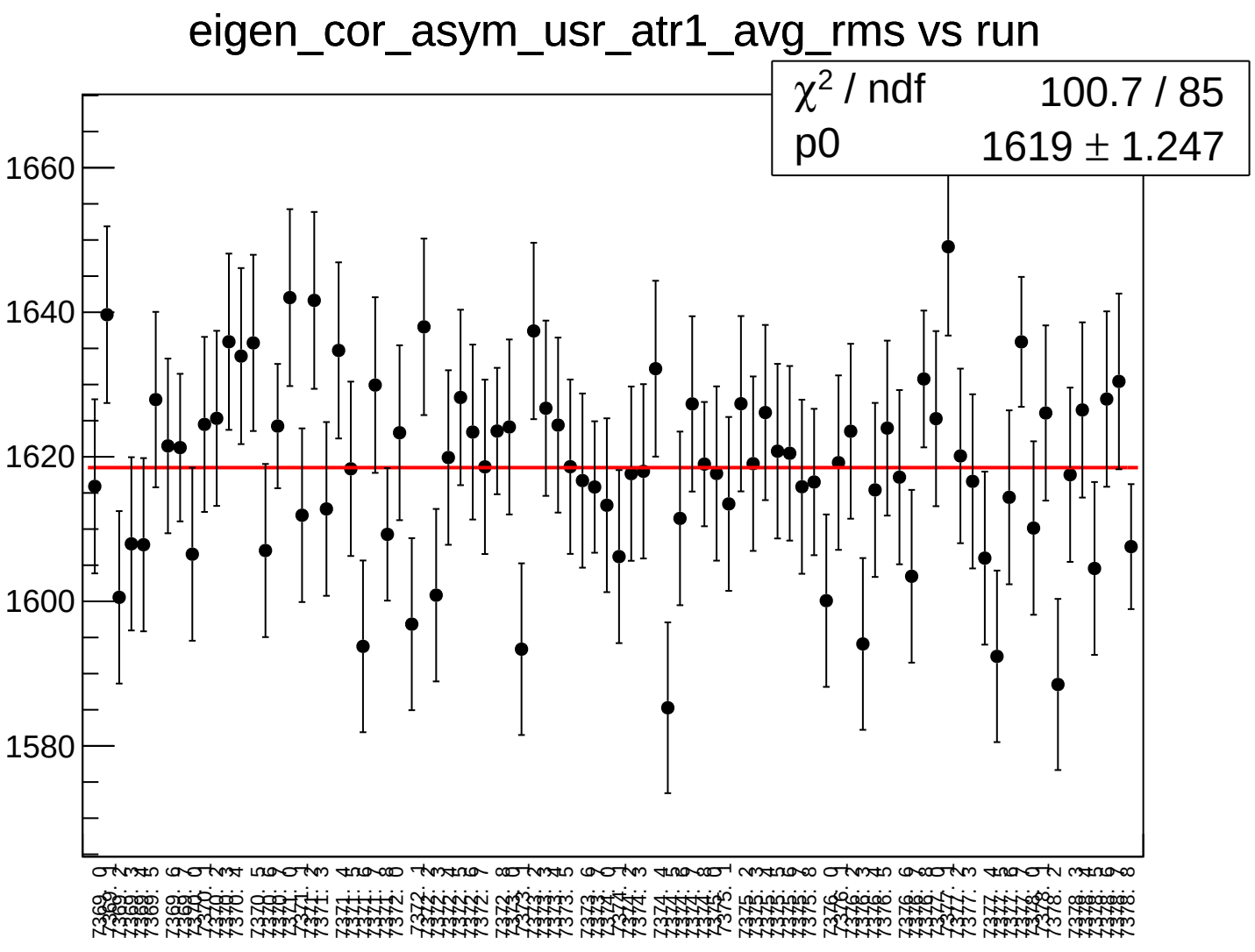

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 100.7 / 85
p0 1619 ± 1.247
1660
1640
1620
1600
1580

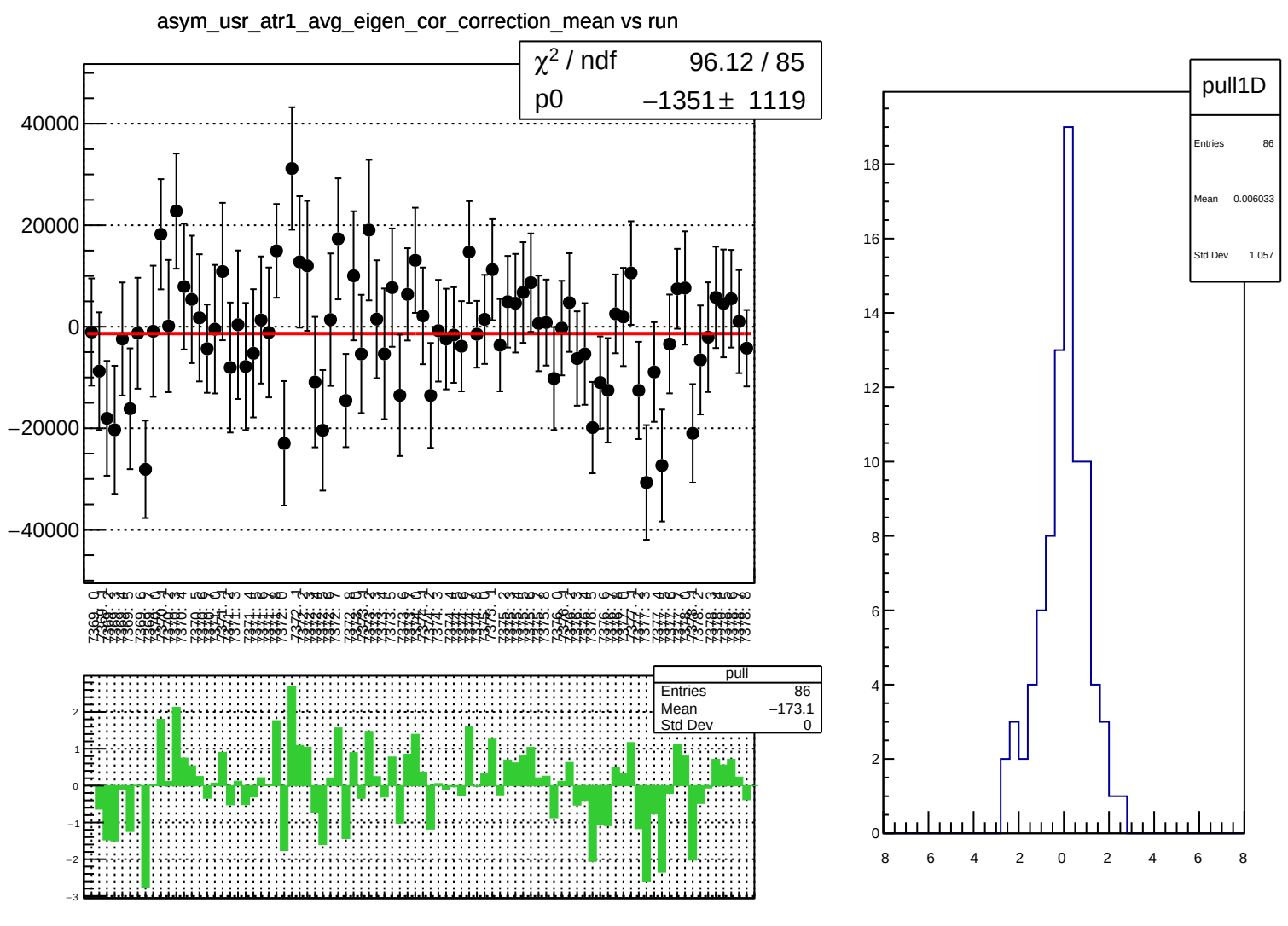

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 96.12 / 85
p0 −1351 ± 1119
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −173.1
Std Dev 0
pull1D
Entries 86
Mean 0.006033
Std Dev 1.057

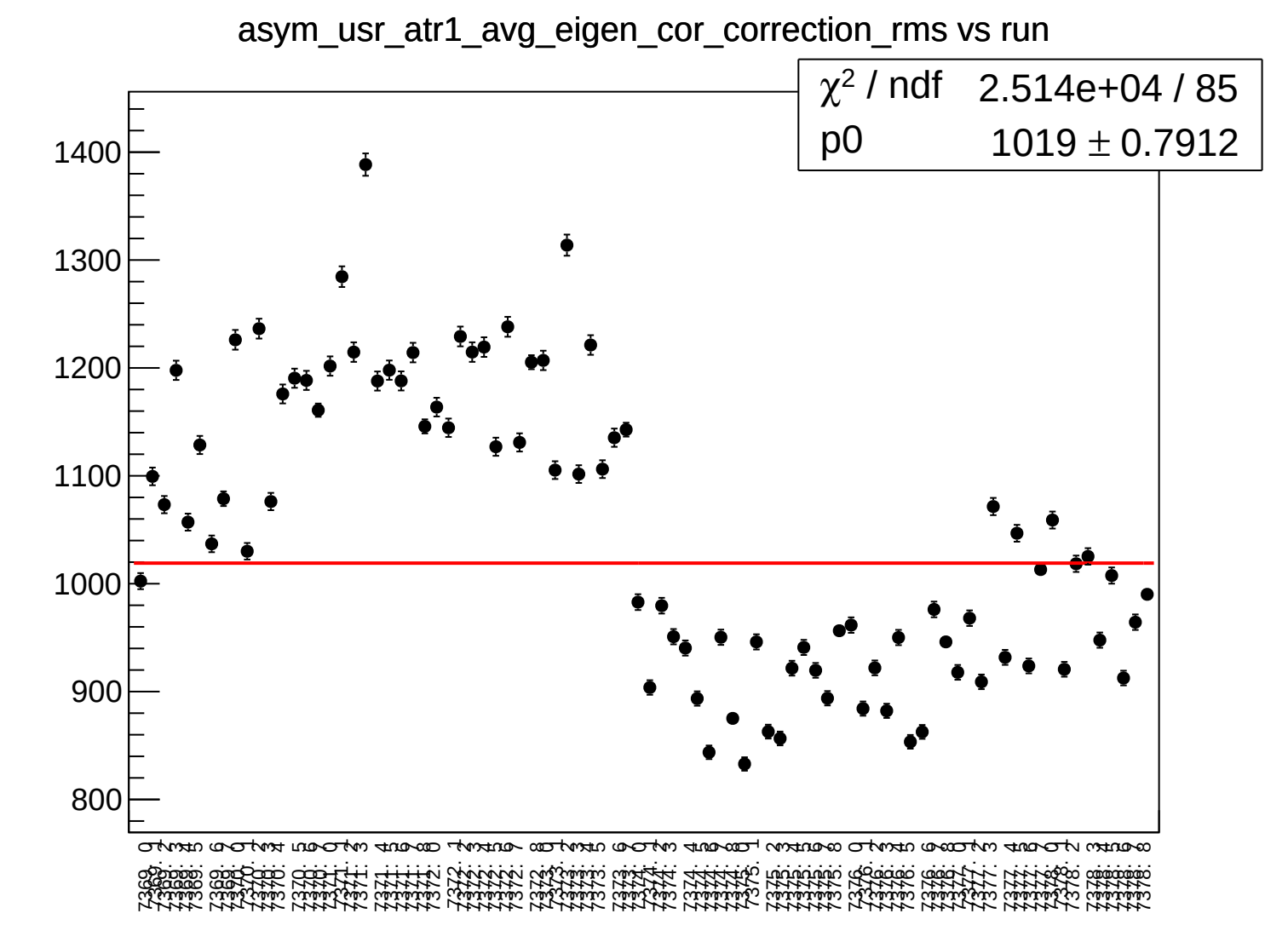

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 2.514e+04 / 85
p0 1019 ± 0.7912
1400
1300
1200
1100
1000
900
800

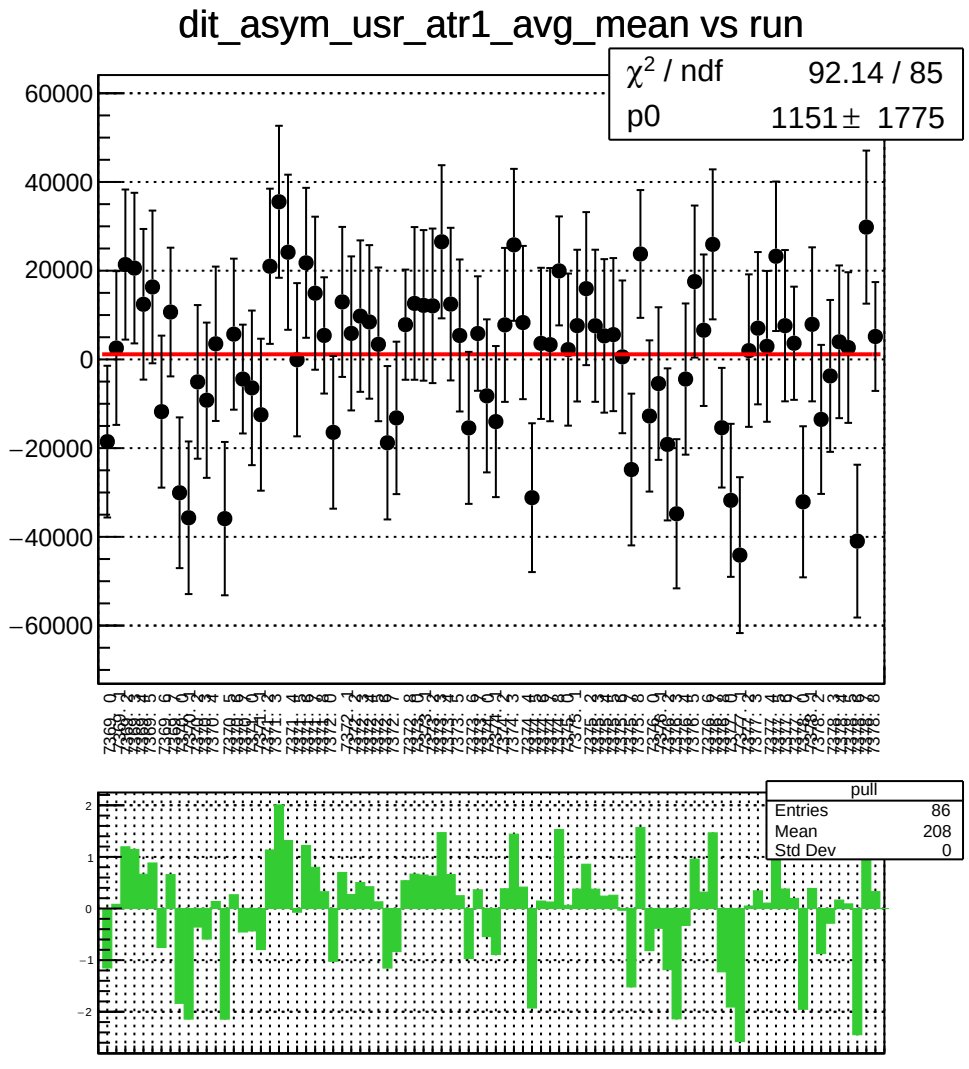

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.57 / 85
p0 1101 ± 1764
pull
Entries 86
Mean 239.1
Std Dev 0

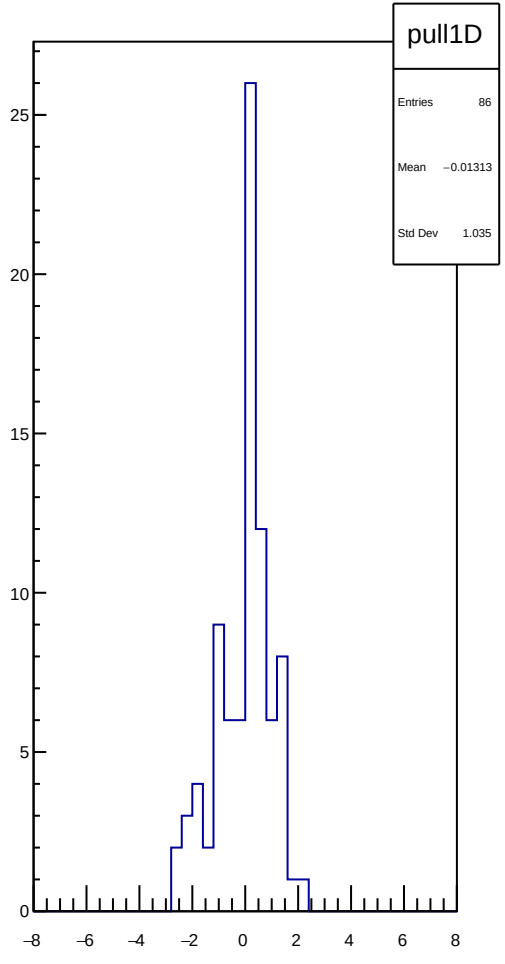

pull1D
Entries 86
Mean −0.01216
Std Dev 1.049

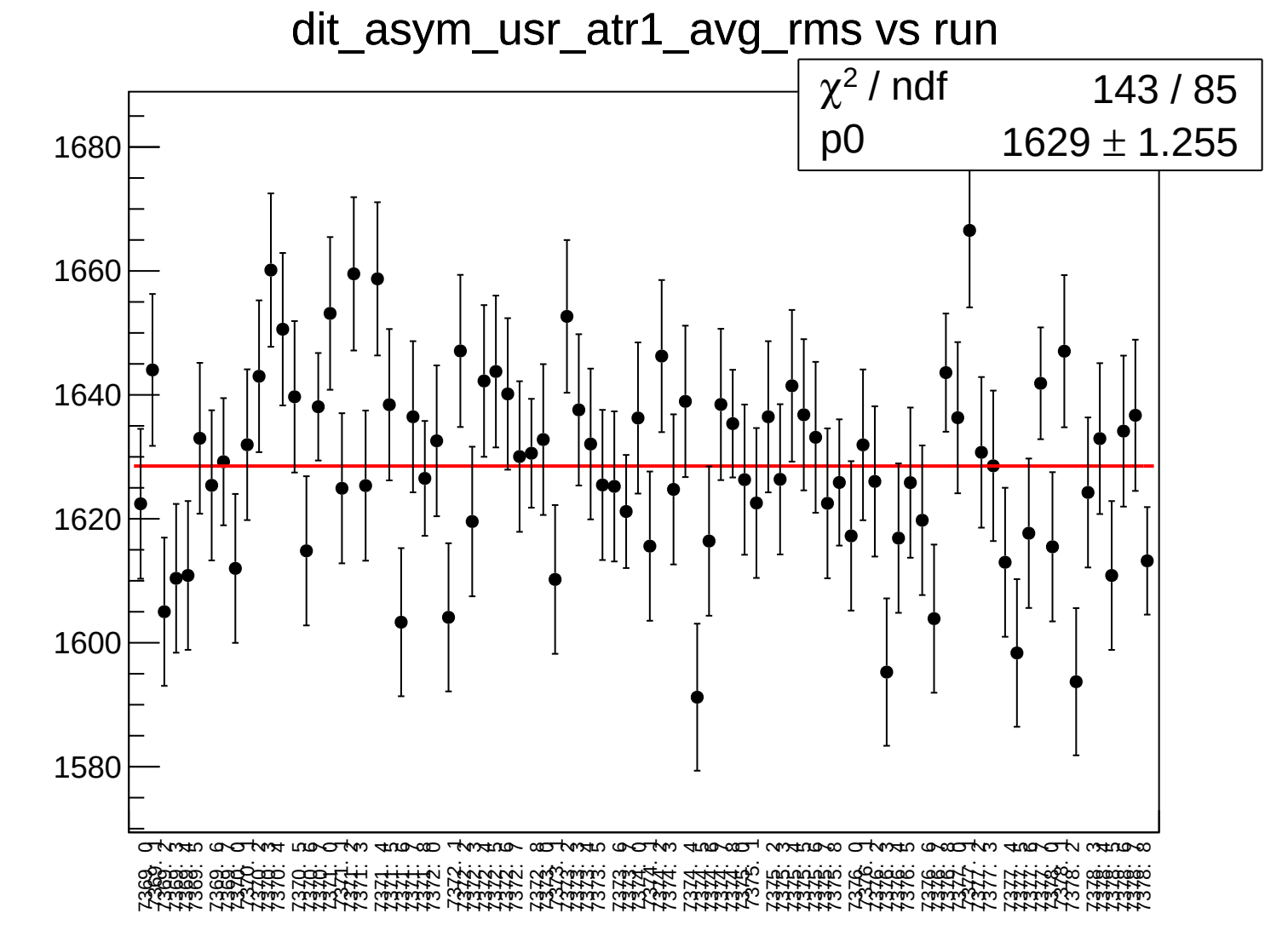

eigen_cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 100.7 / 85
p0 1619 ± 1.247
1660
1640
1620
1600
1580

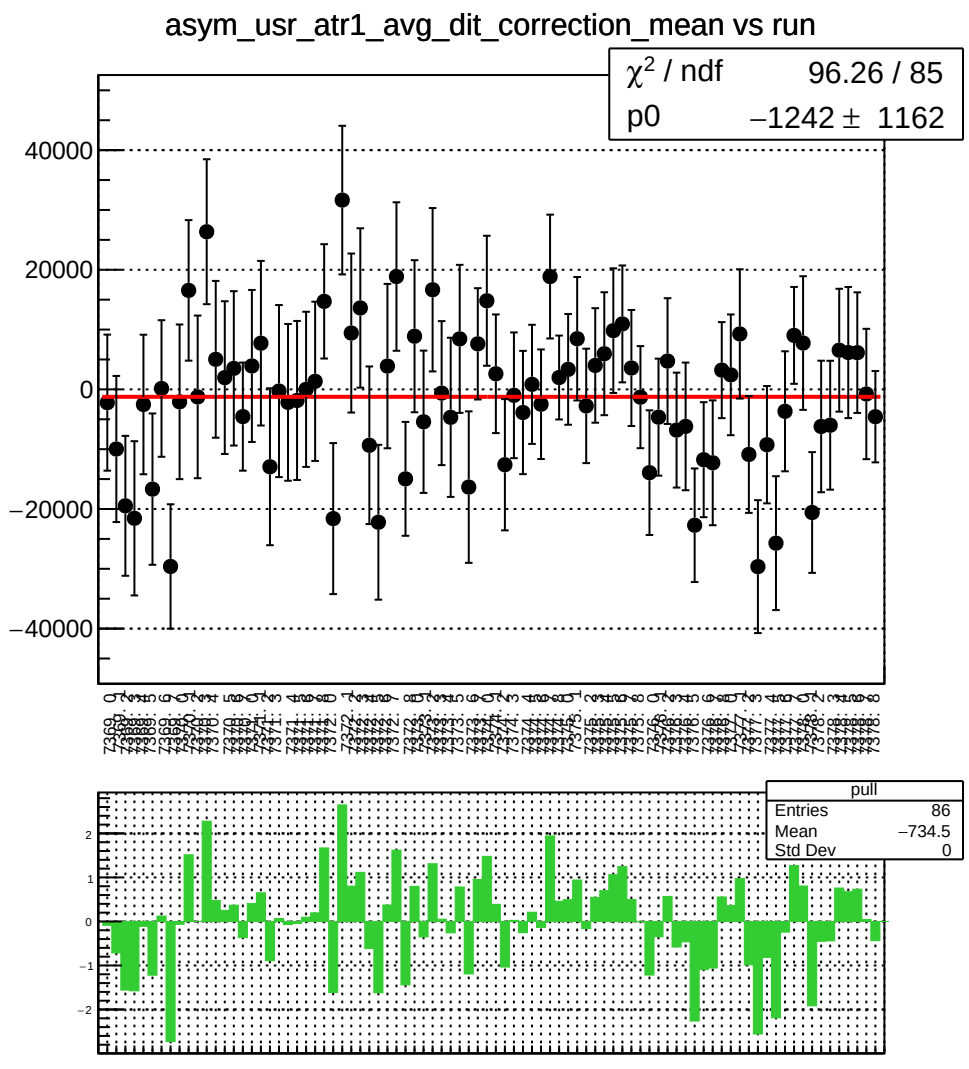

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.12 / 85
p0 −1351 ± 1119
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −173.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.006033
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

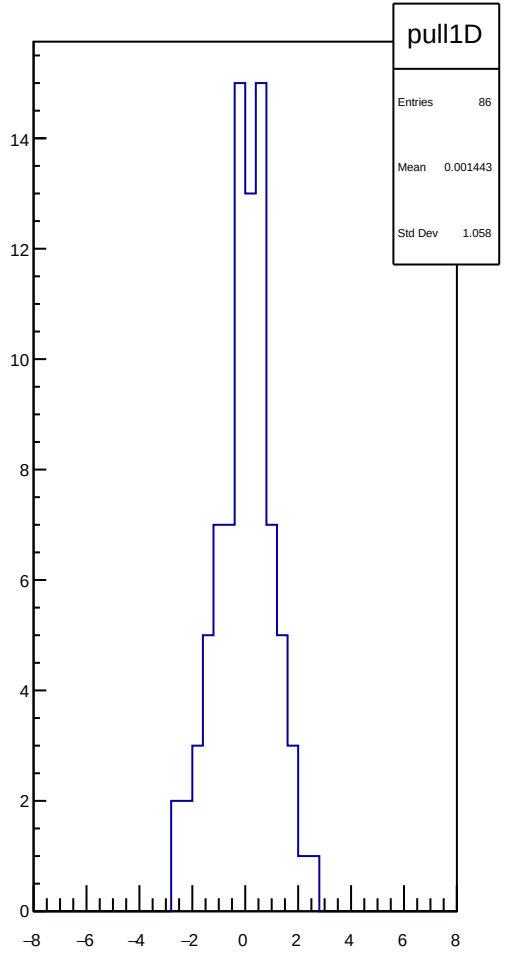

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.514e+04 / 85
p0 1019 ± 0.7912
1400
1300
1200
1100
1000
900
800

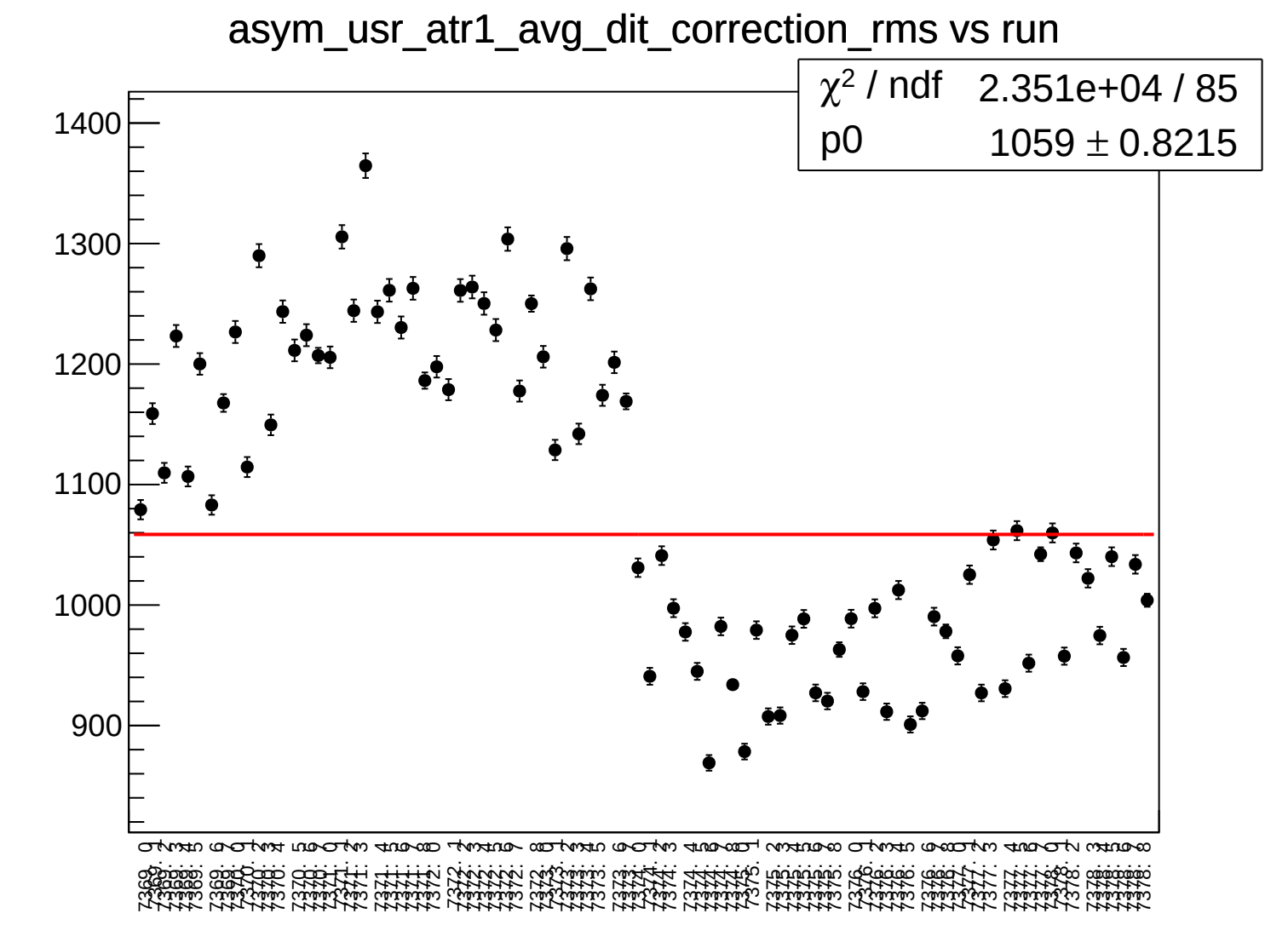

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.14 / 85
p0 1151 ± 1775
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 208
Std Dev 0
2
1
0
−1
−2

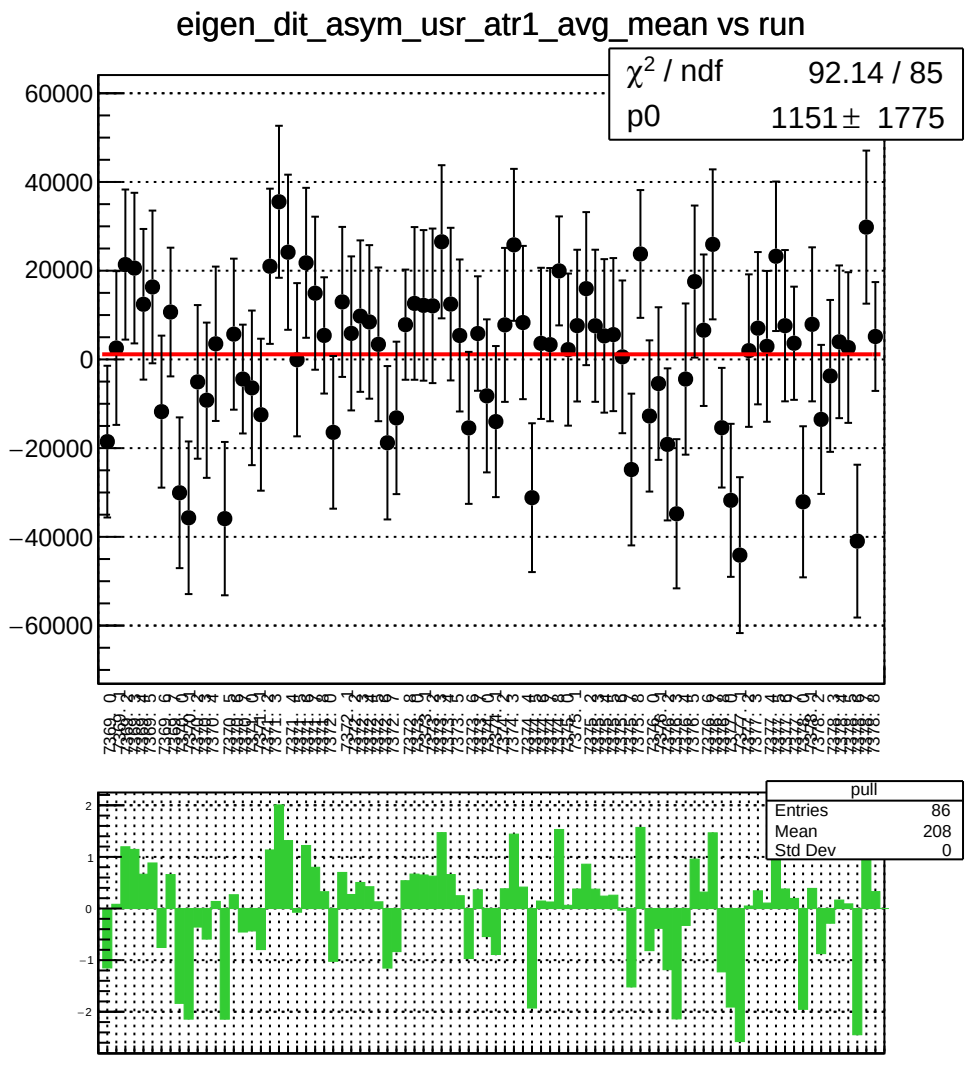

pull1D
Entries 86
Mean −0.01313
Std Dev 1.035
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

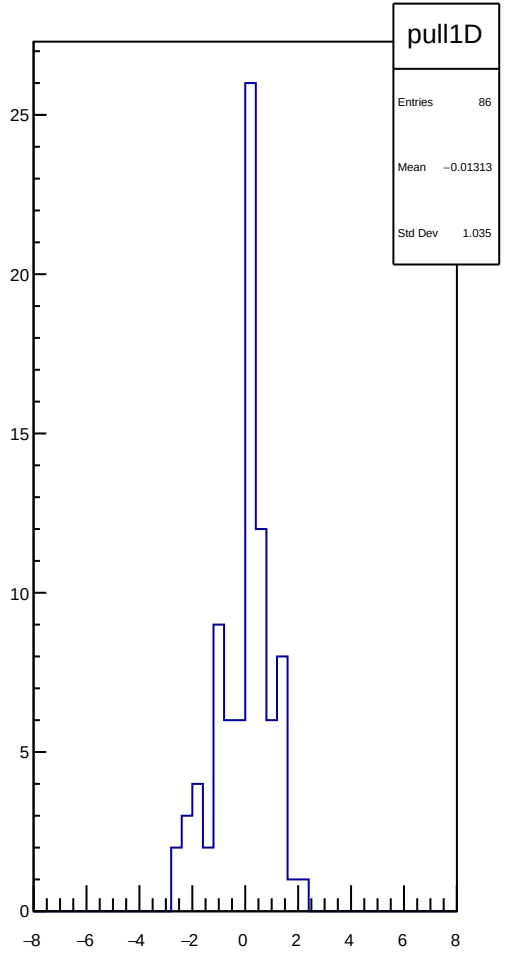

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 143 / 85
p0 1629 ± 1.255
1680
1660
1640
1620
1600
1580

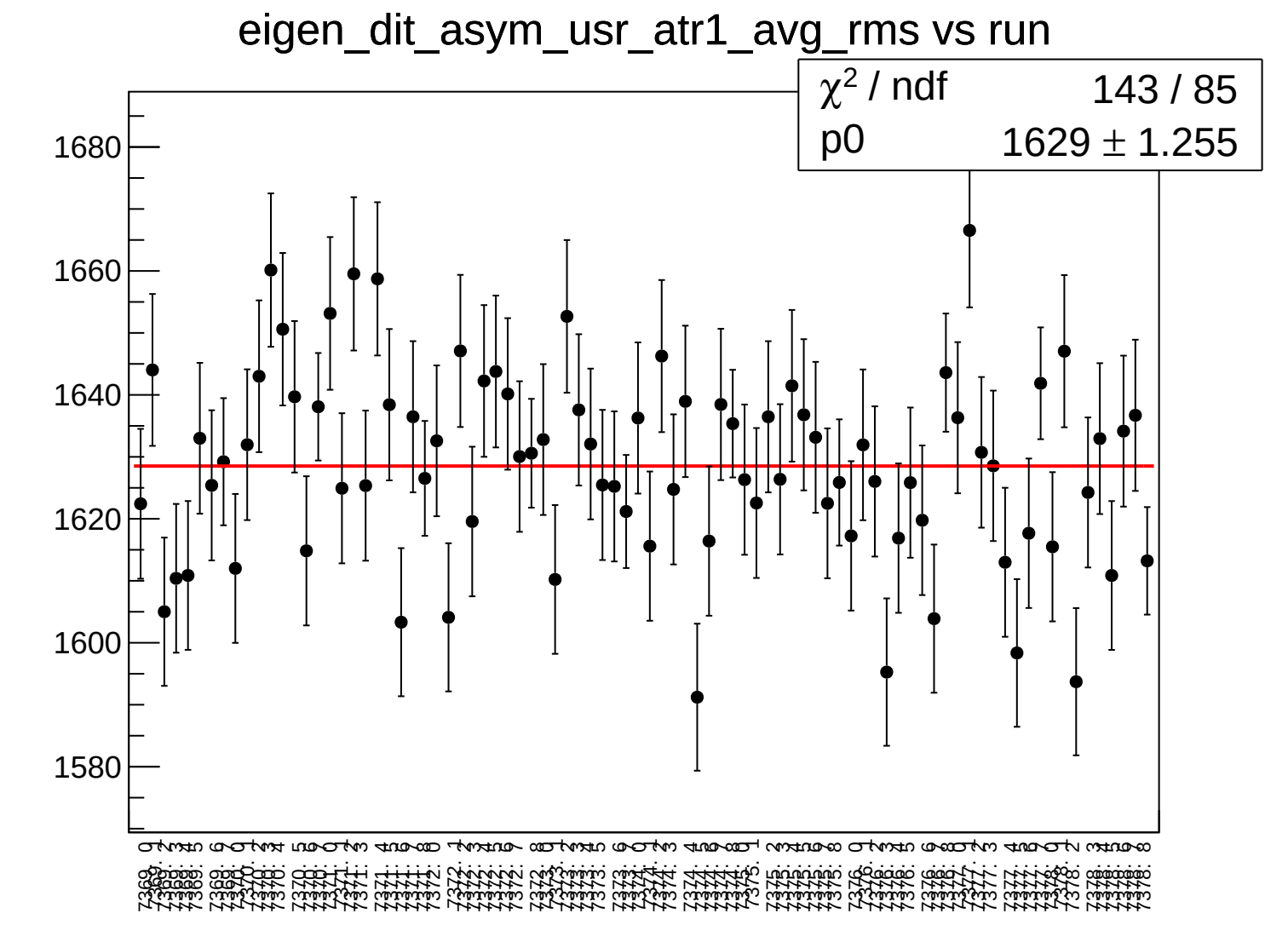

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 96.26 / 85
p0 −1242 ± 1162
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −734.5
Std Dev 0
2
1
0
−1
−2

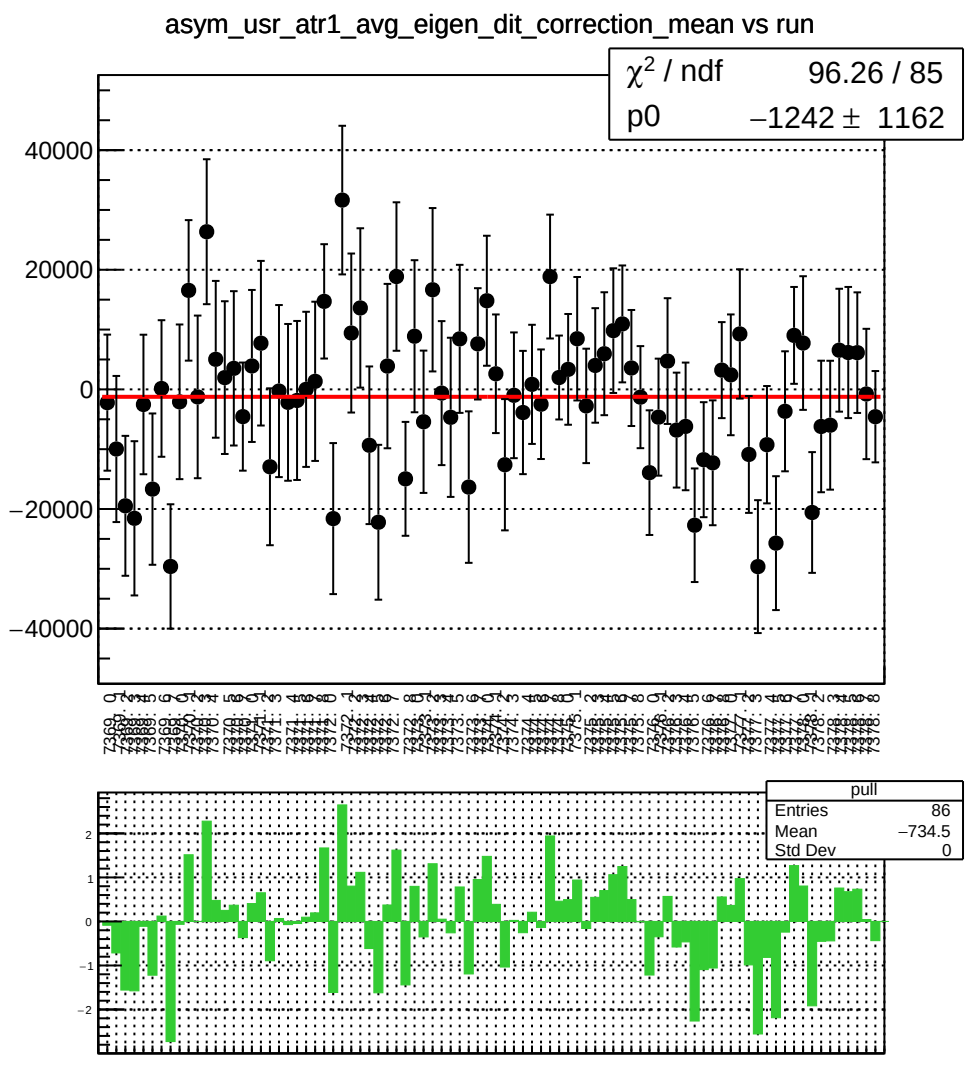

pull1D
Entries 86
Mean 0.001443
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

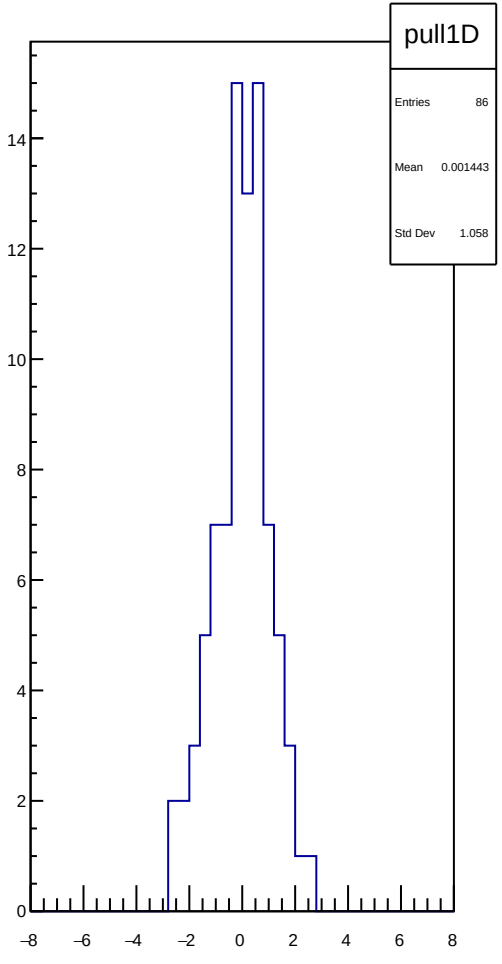

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2.351e+04 / 85
p0 1059 ± 0.8215
1400
1300
1200
1100
1000
900

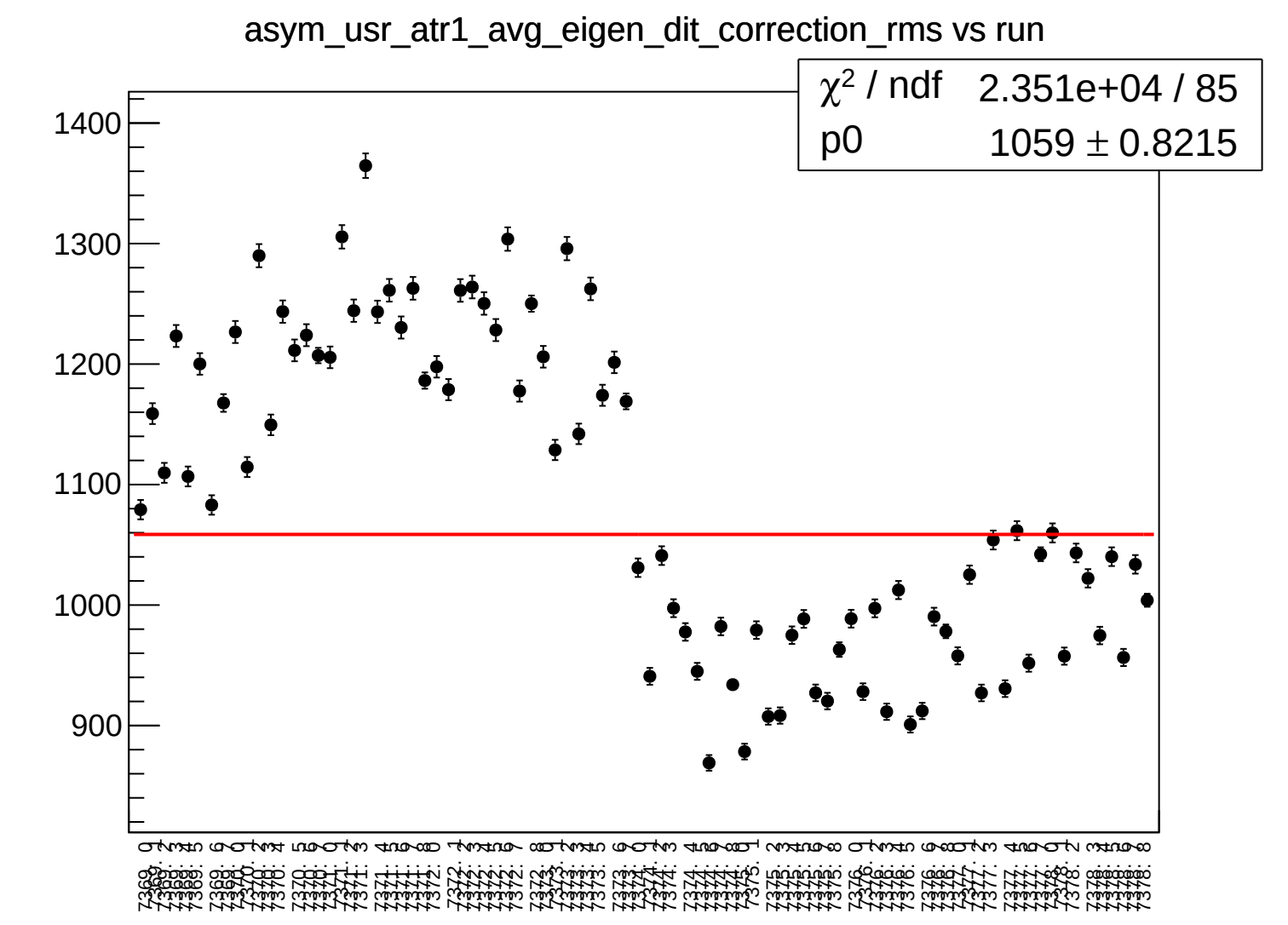

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.14 / 85
p0 1151 ± 1775
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 208
Std Dev 0
2
1
0
−1
−2

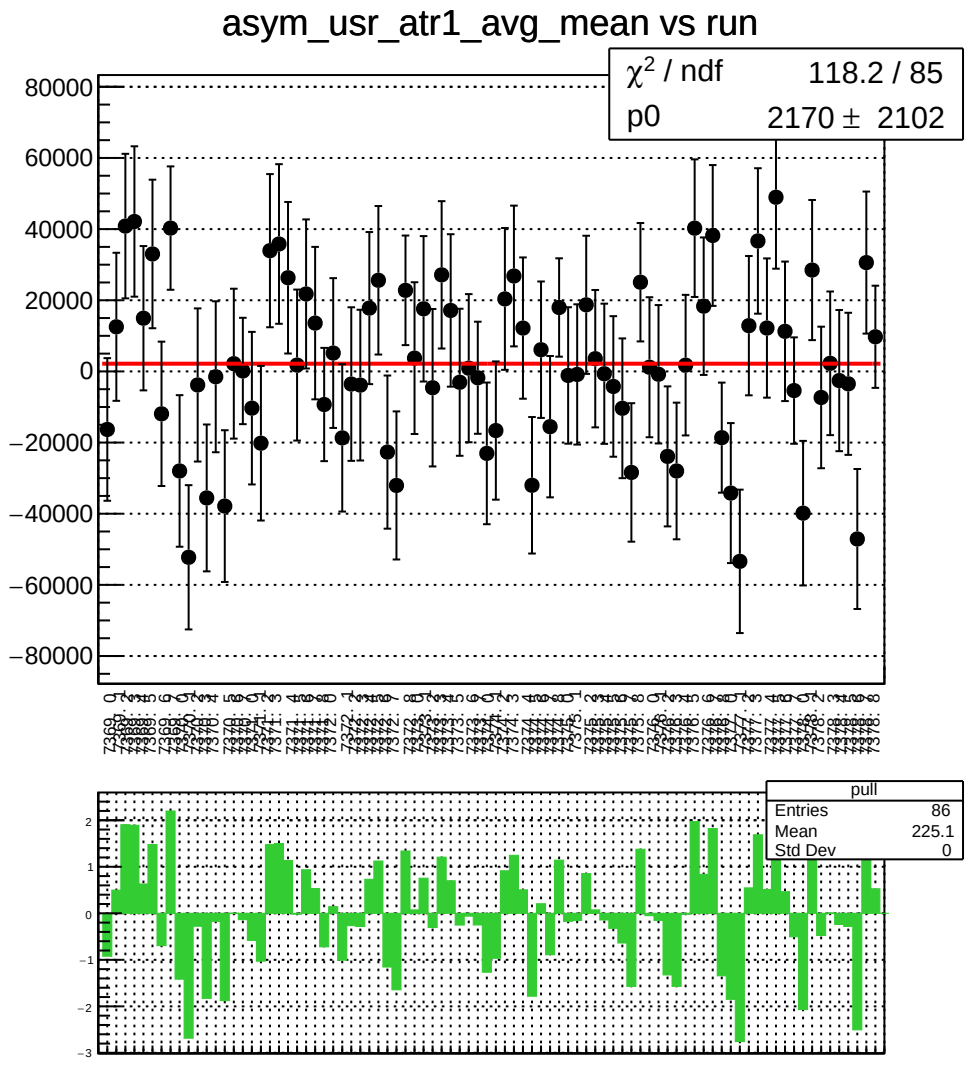

pull1D
Entries 86
Mean −0.01313
Std Dev 1.035
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

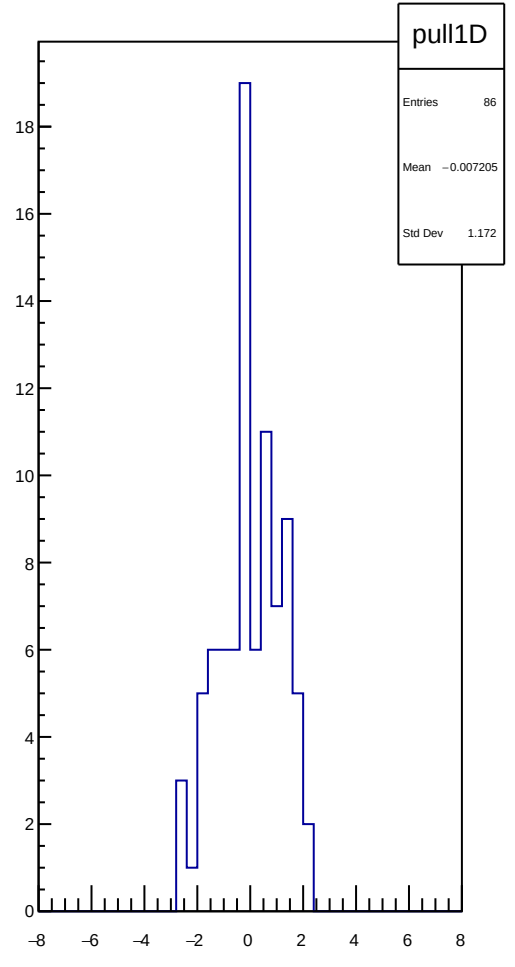

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 143 / 85
p0 1629 ± 1.255
1680
1660
1640
1620
1600
1580

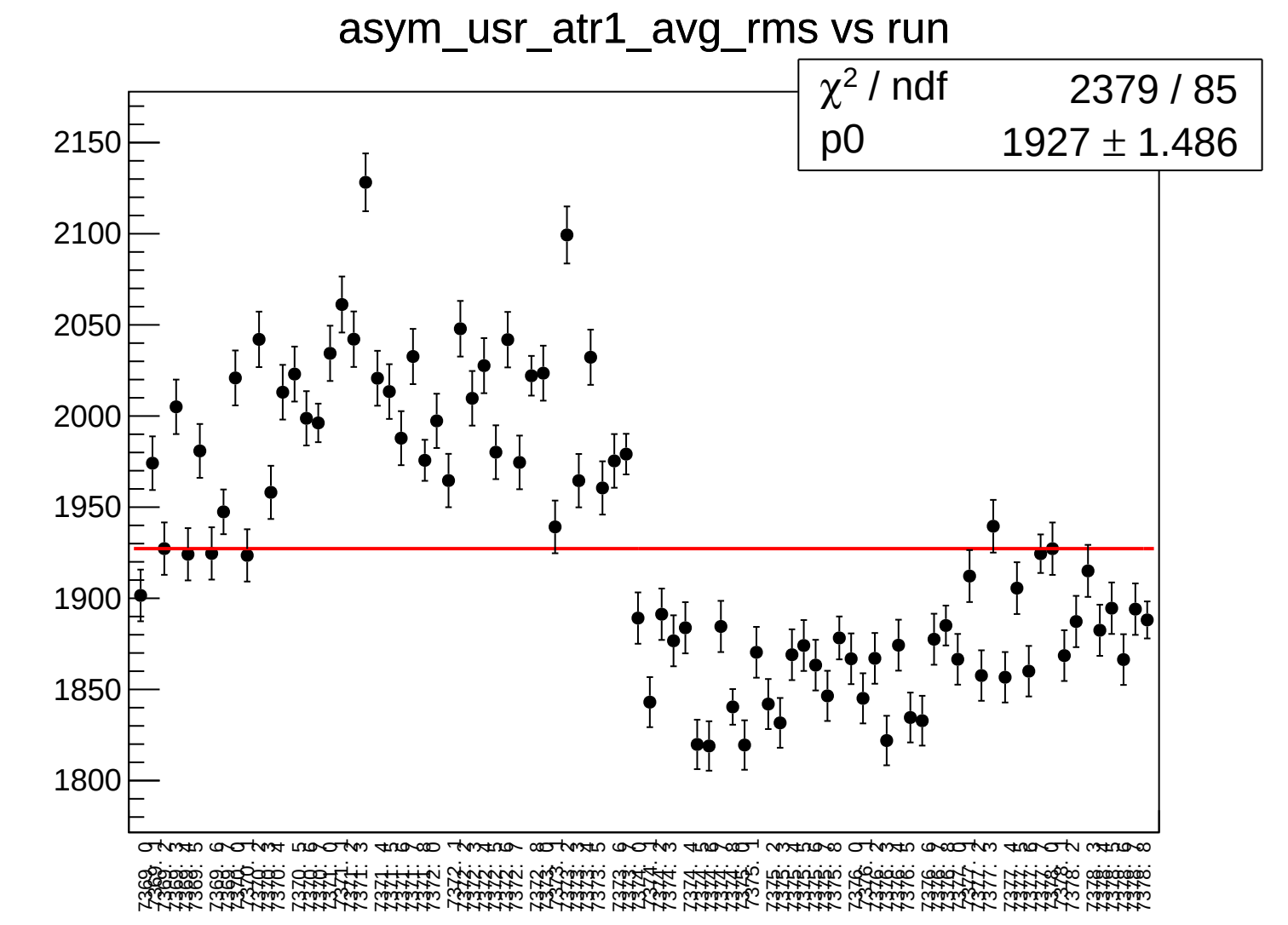

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.26 / 85
p0 −1242 ± 1162
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −734.5
Std Dev 0
2
1
0
−1
−2

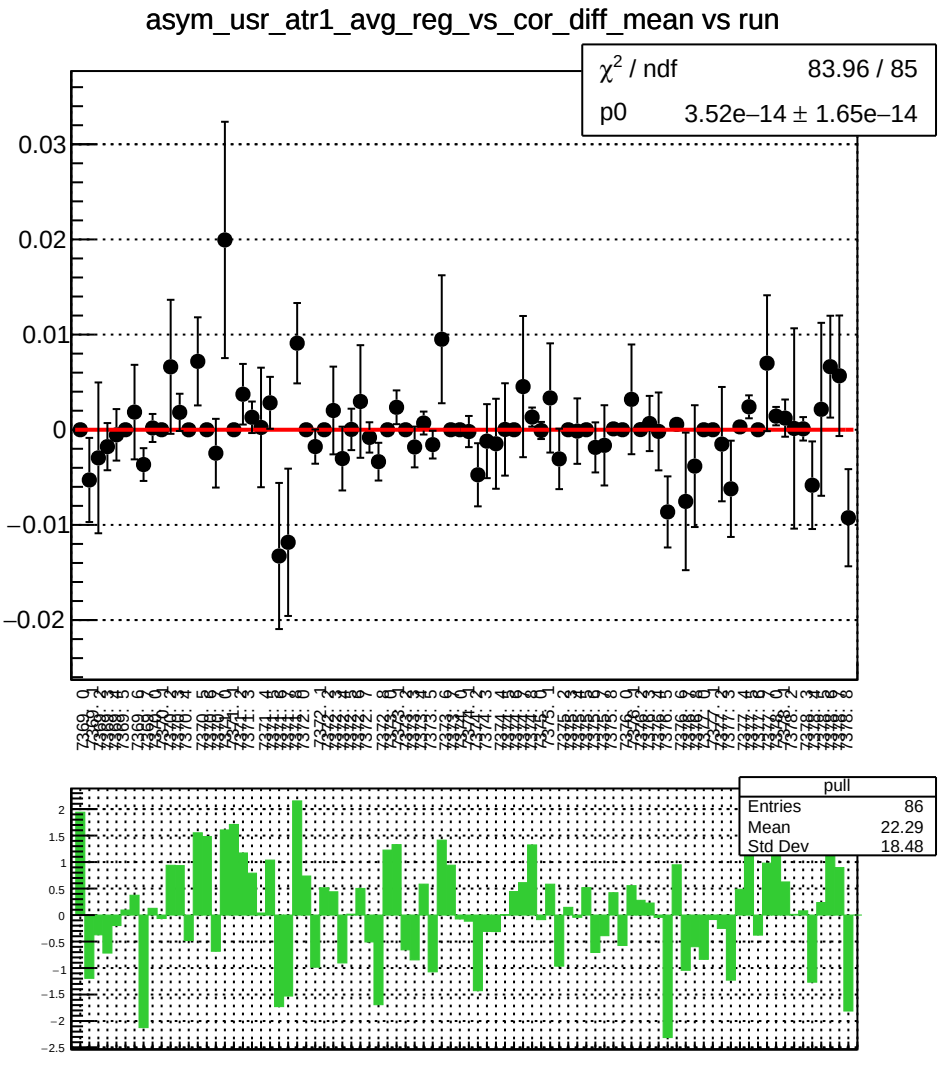

pull1D
Entries 86
Mean 0.001443
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

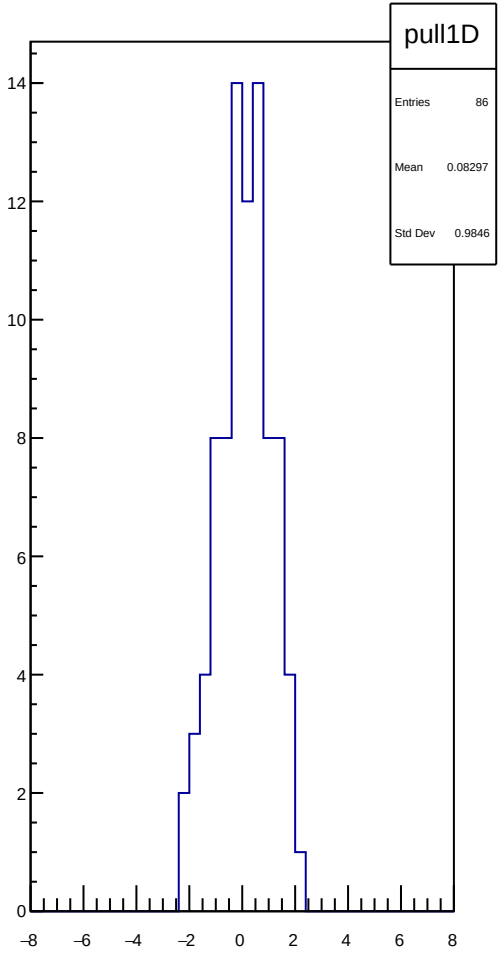

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.351e+04 / 85
p0 1059 ± 0.8215
1400
1300
1200
1100
1000
900

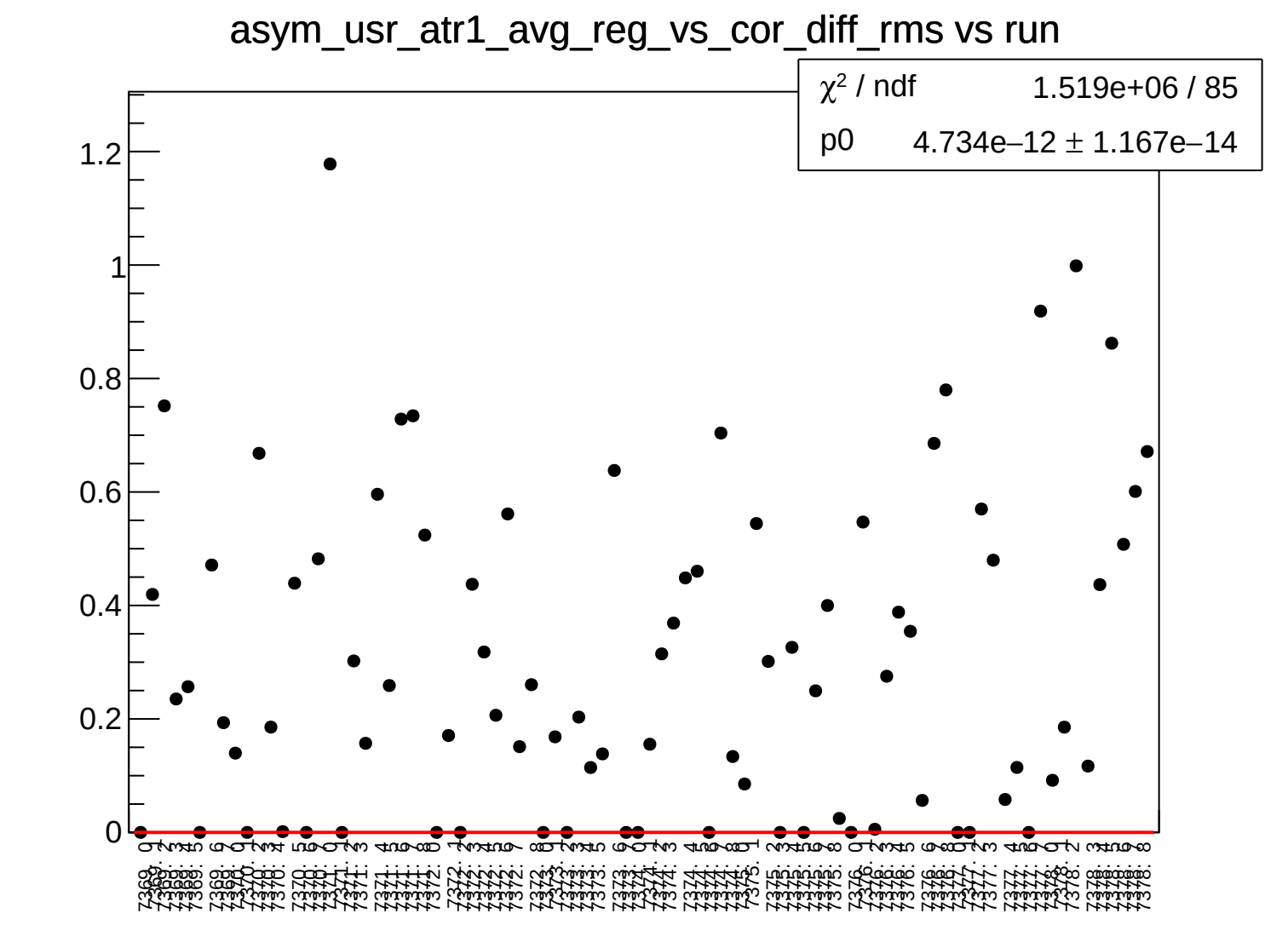

asym_usr_atr1_avg_mean vs run
χ² / ndf 118.2 / 85
p0 2170 ± 2102
pull
Entries 86
Mean 225.1
Std Dev 0

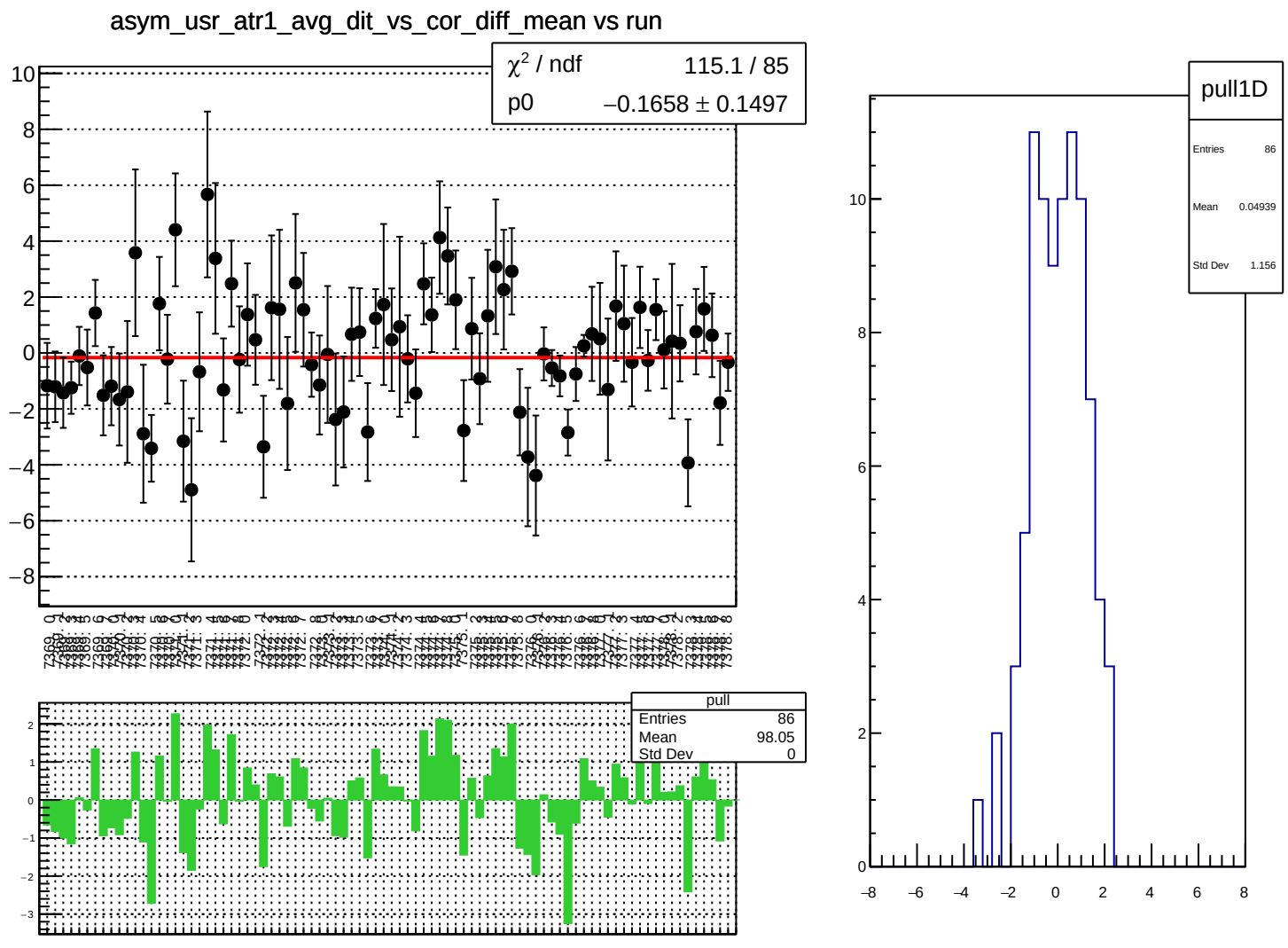

pull1D
Entries 86
Mean −0.007205
Std Dev 1.172

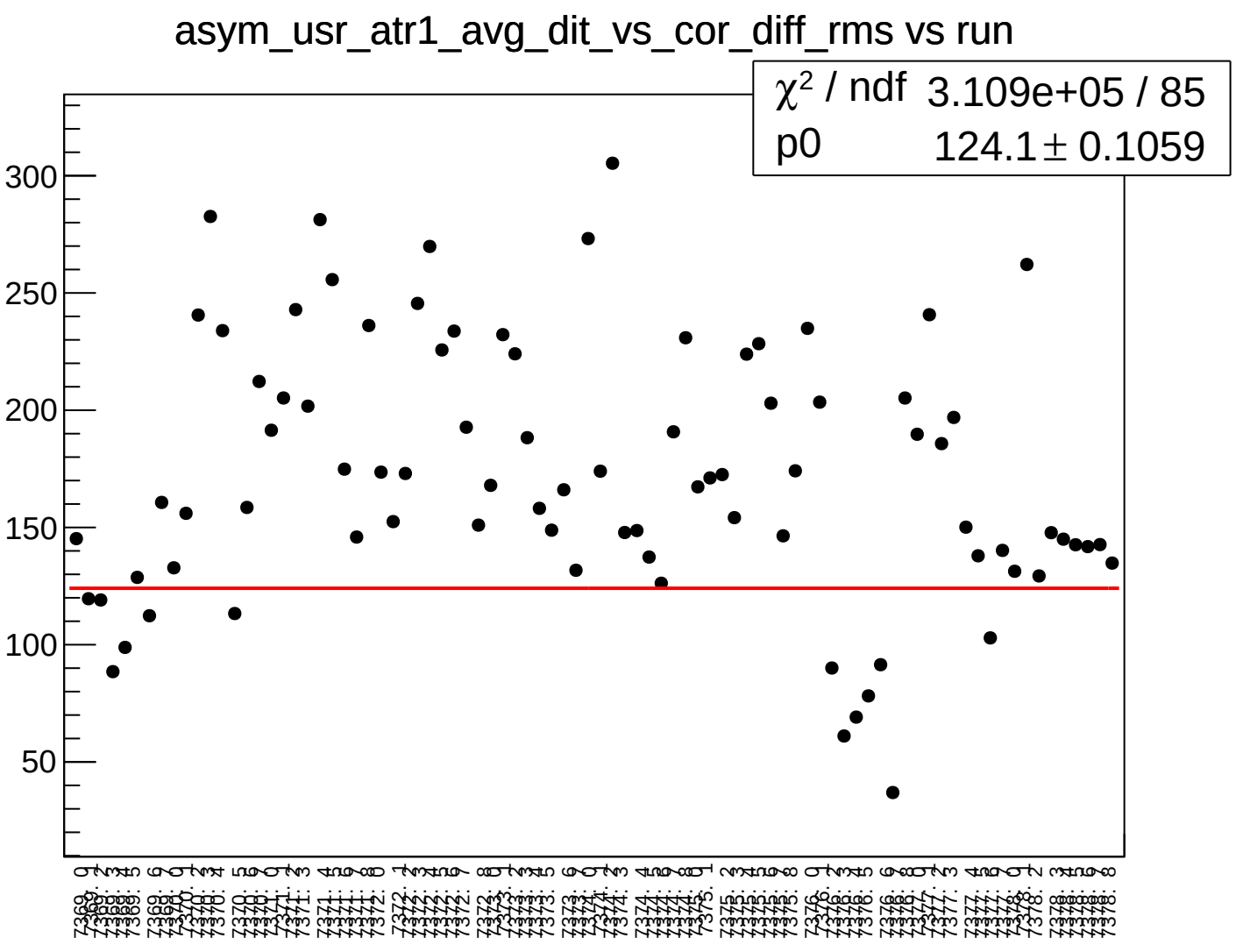

asym_usr_atr1_avg_rms vs run
χ² / ndf 2379 / 85
p0 1927 ± 1.486
2150
2100
2050
2000
1950
1900
1850
1800

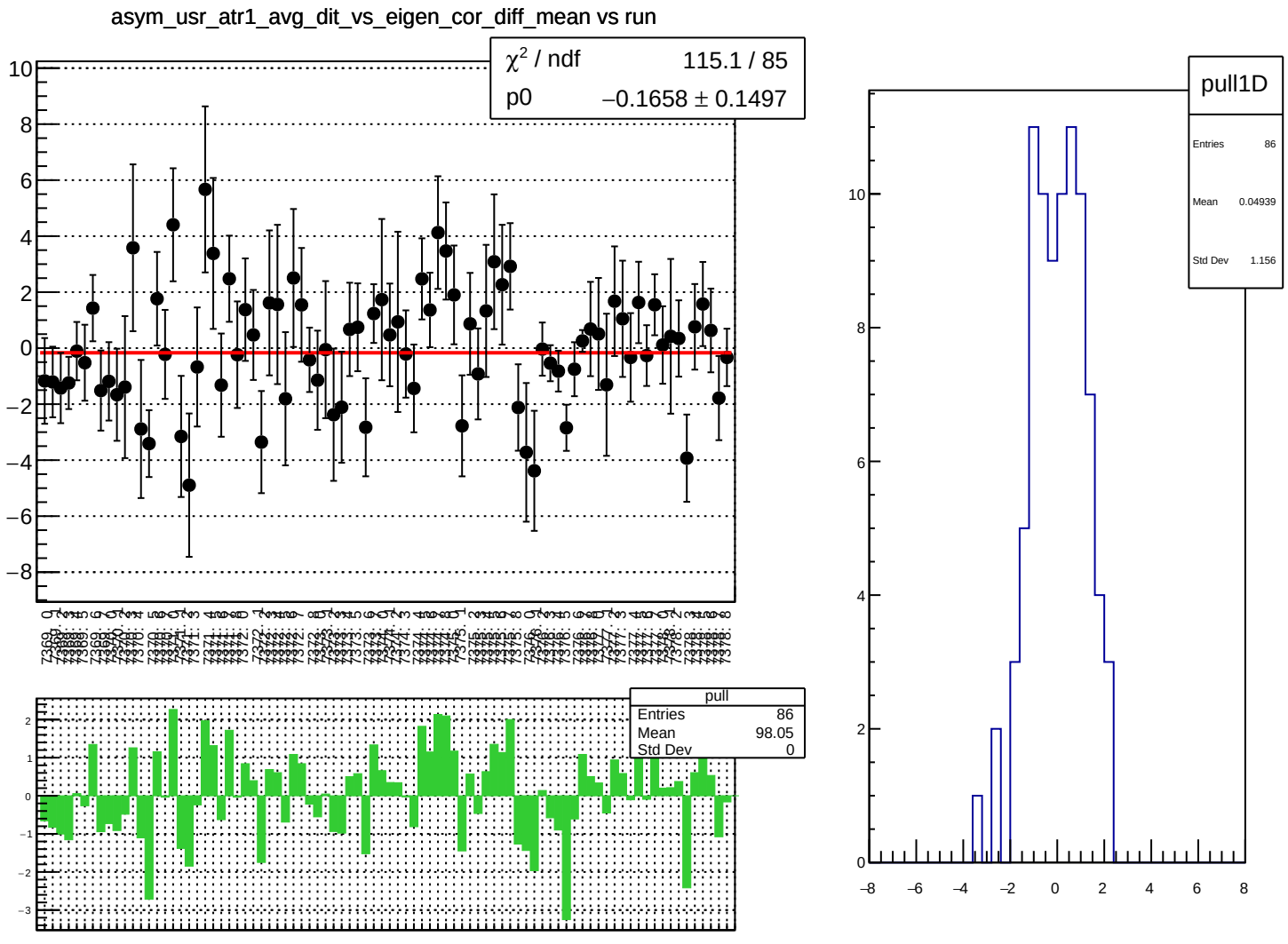

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.96 / 85
p0 3.52e−14 ± 1.65e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 22.29
Std Dev 18.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

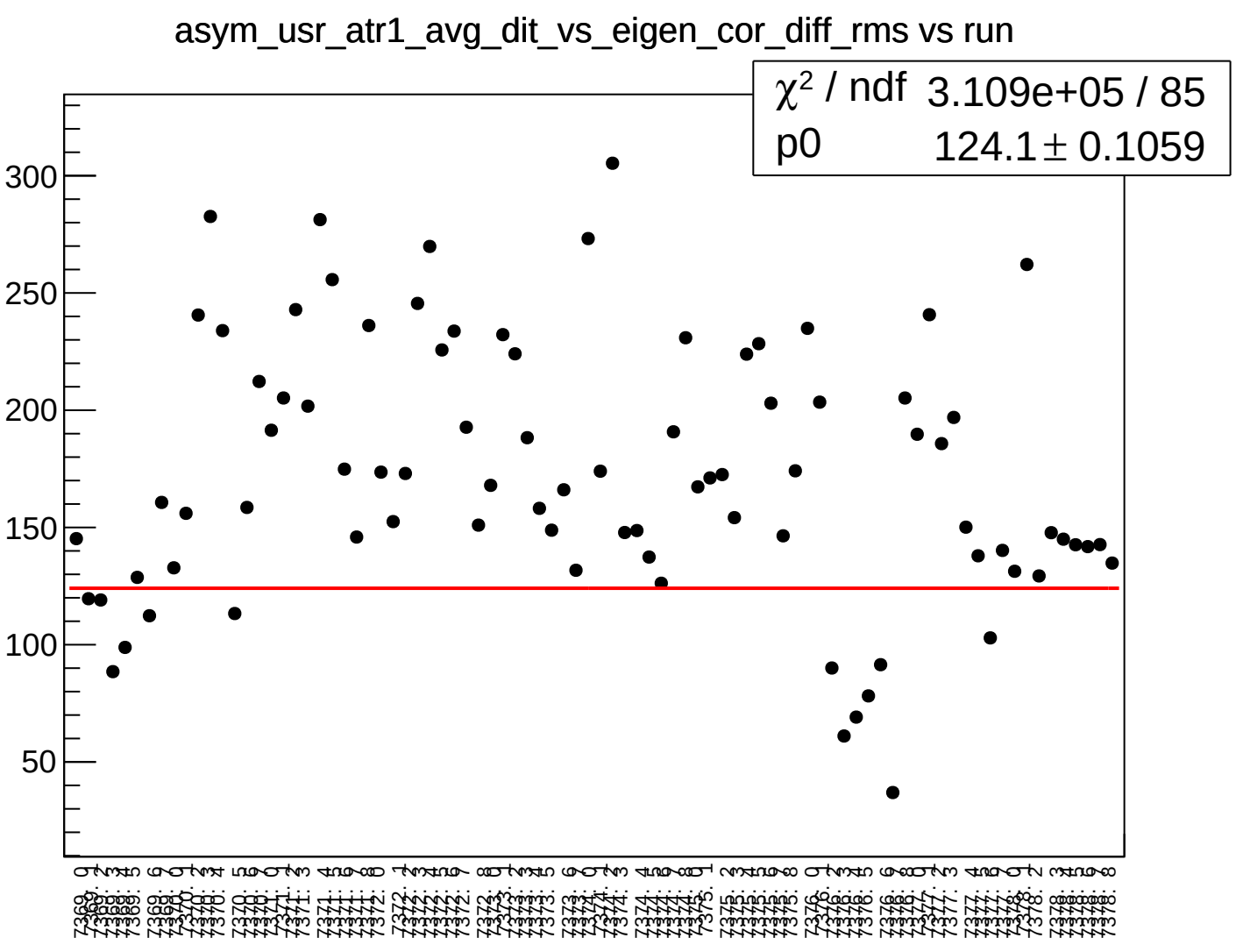

pull1D
Entries 86
Mean 0.08297
Std Dev 0.9846
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

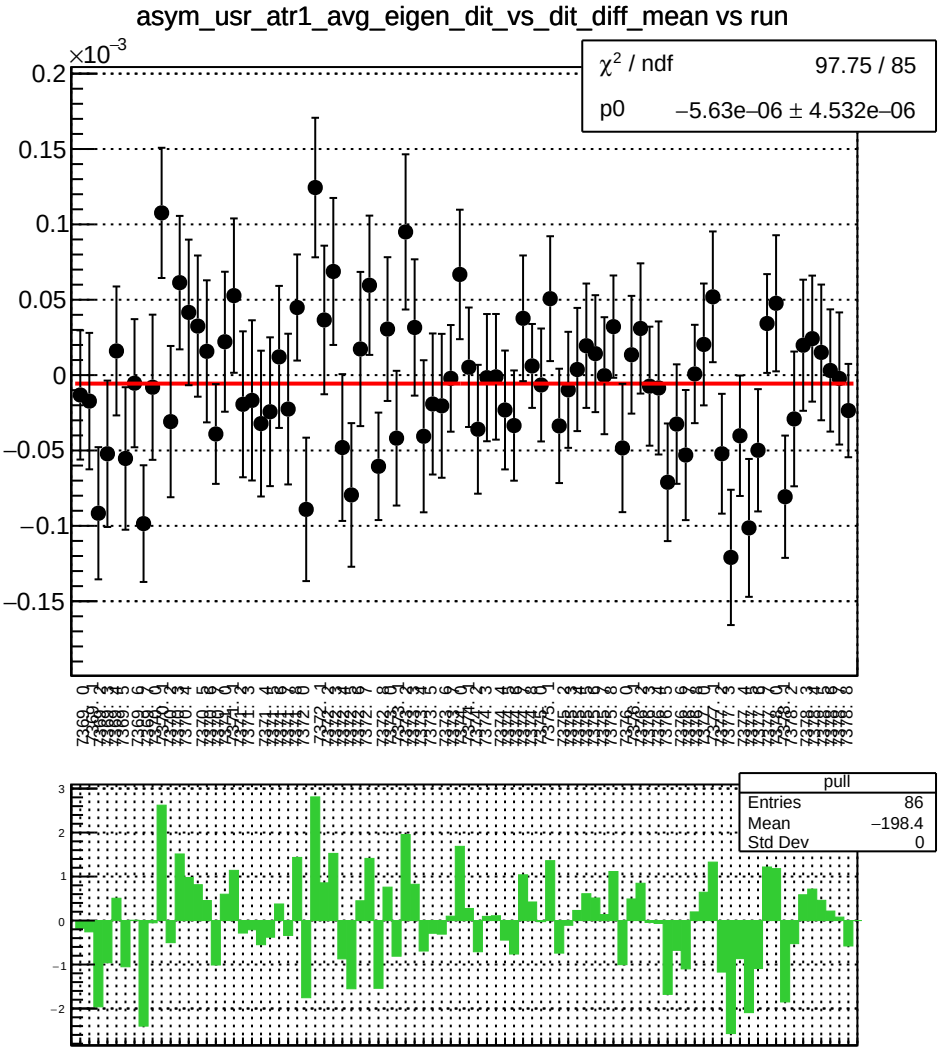

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.519e+06 / 85
p0 4.734e−12 ± 1.167e−14
1.2
1
0.8
0.6
0.4
0.2
0

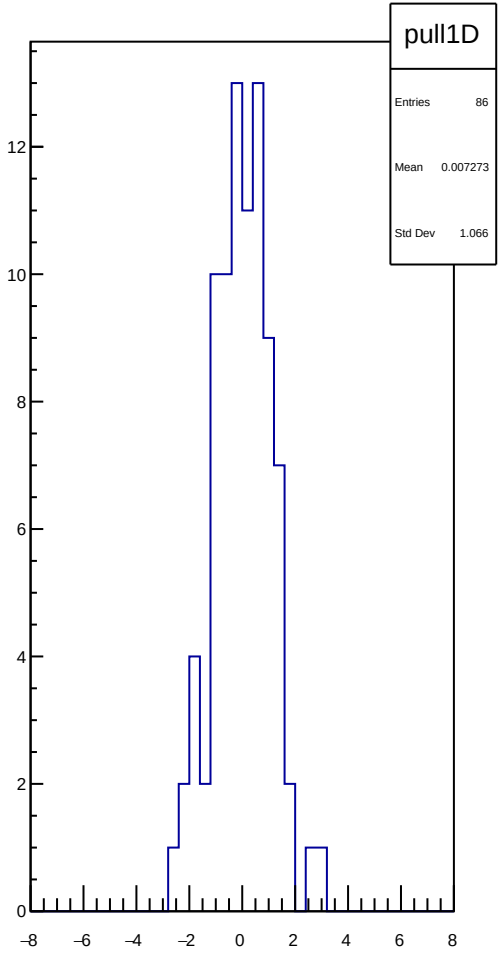

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 115.1 / 85
p0 −0.1658 ± 0.1497
pull
Entries 86
Mean 98.05
Std Dev 0
pull1D
Entries 86
Mean 0.04939
Std Dev 1.156

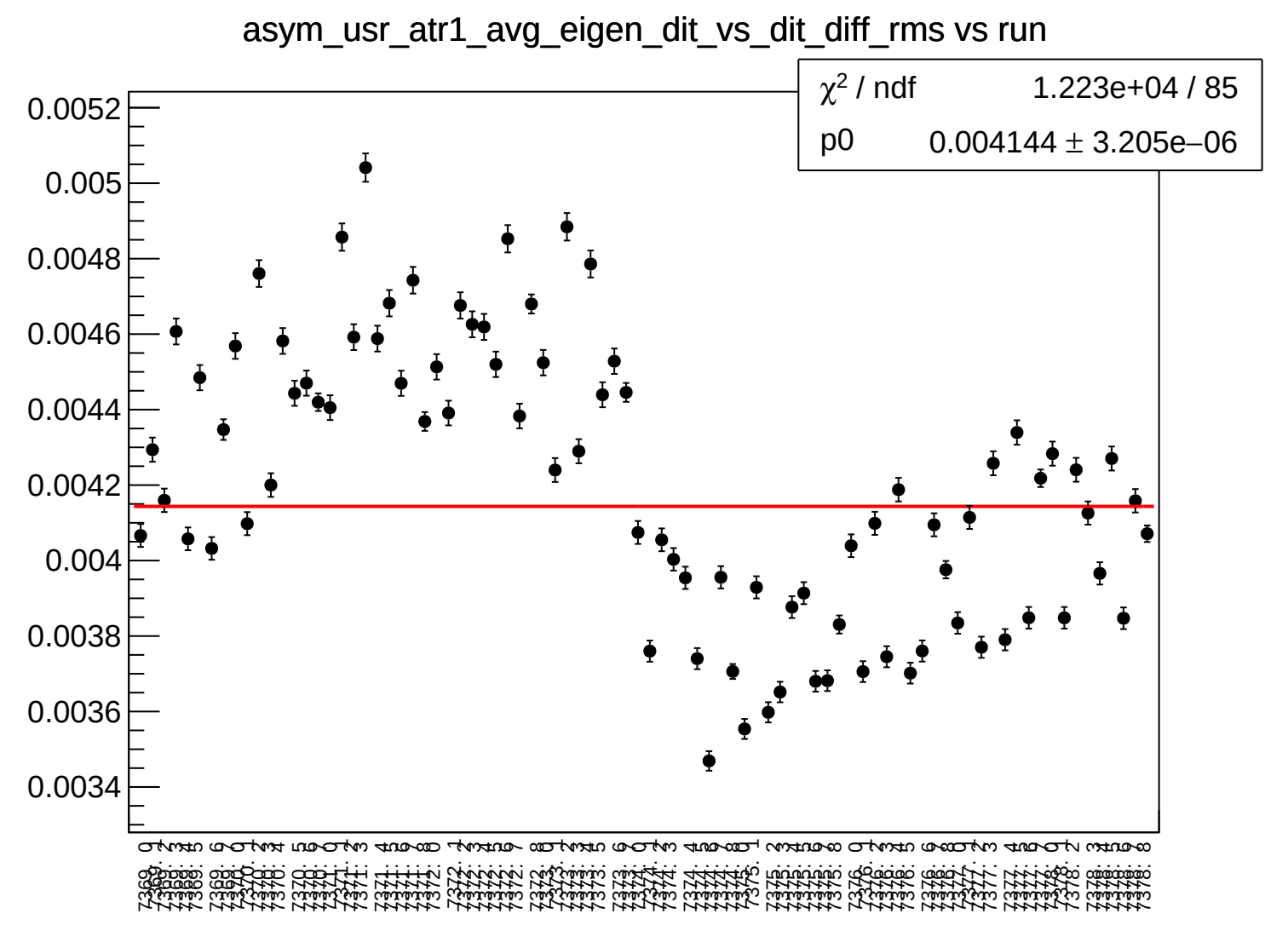

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.109e+05 / 85
p0 124.1 ± 0.1059
300
250
200
150
100
50

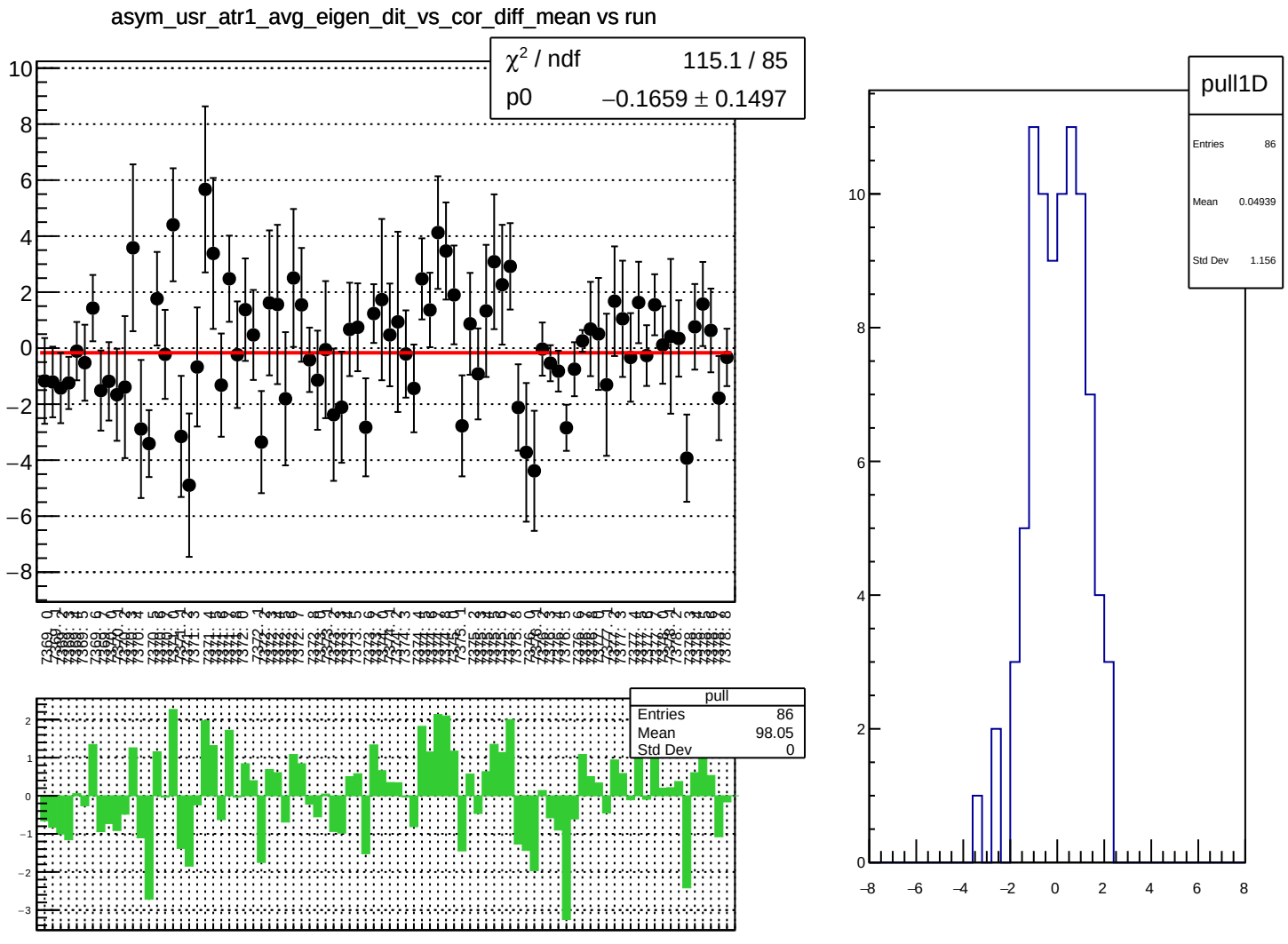

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.1 / 85
p0 −0.1658 ± 0.1497
pull
Entries 86
Mean 98.05
Std Dev 0
pull1D
Entries 86
Mean 0.04939
Std Dev 1.156

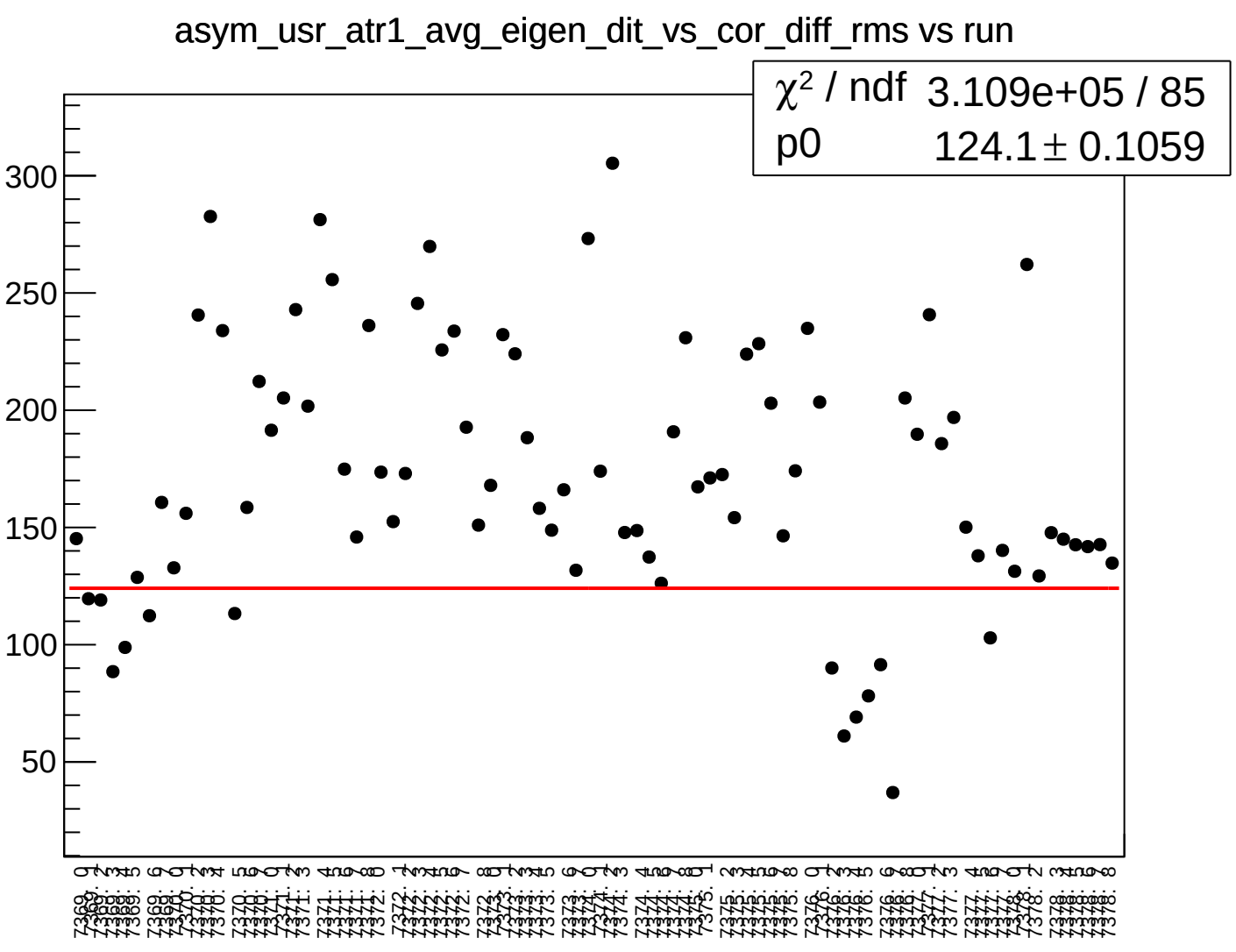

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.109e+05 / 85
p0 124.1 ± 0.1059
300
250
200
150
100
50

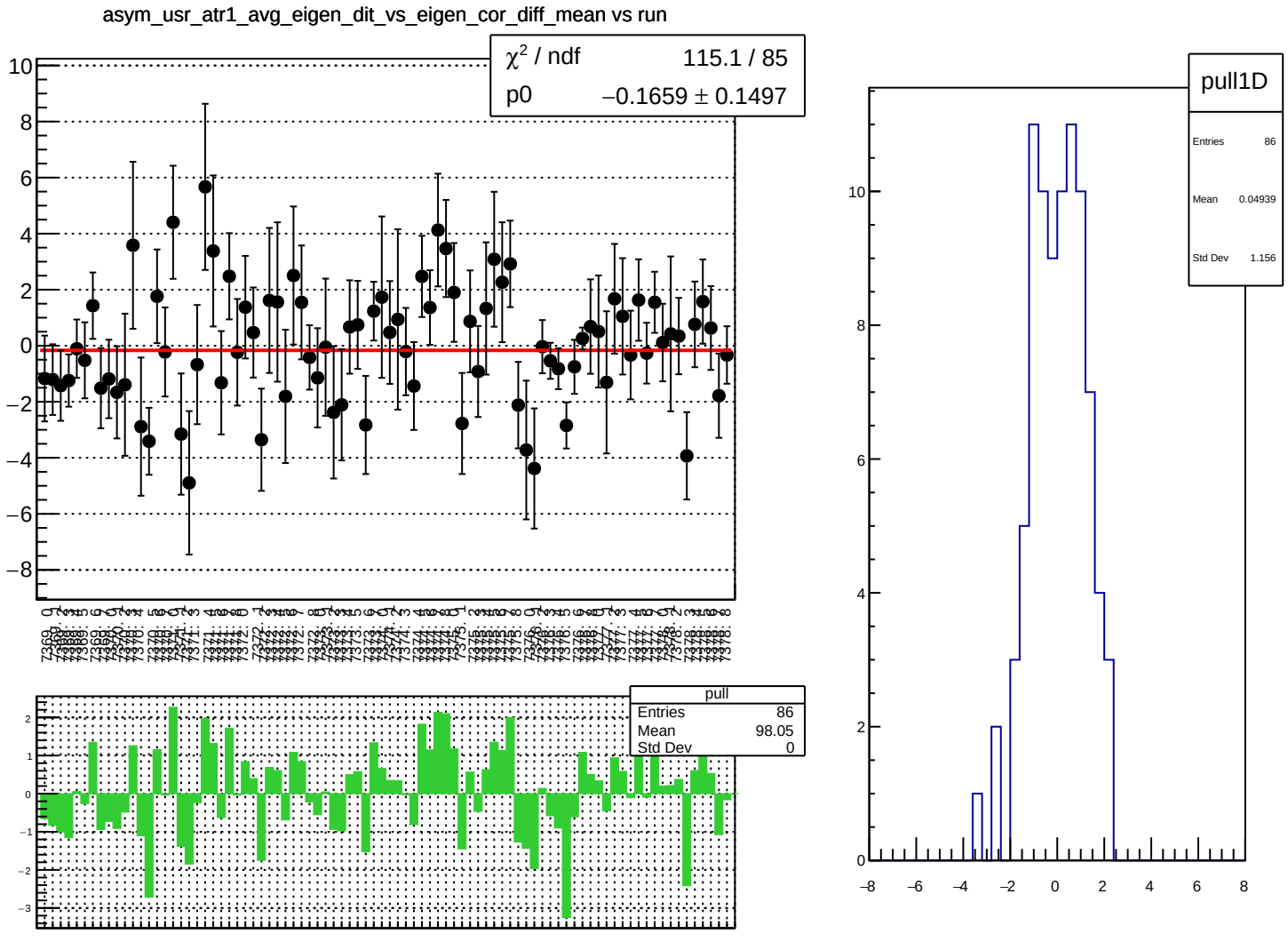

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.75 / 85
p0 −5.63e−06 ± 4.532e−06
pull
Entries 86
Mean −198.4
Std Dev 0

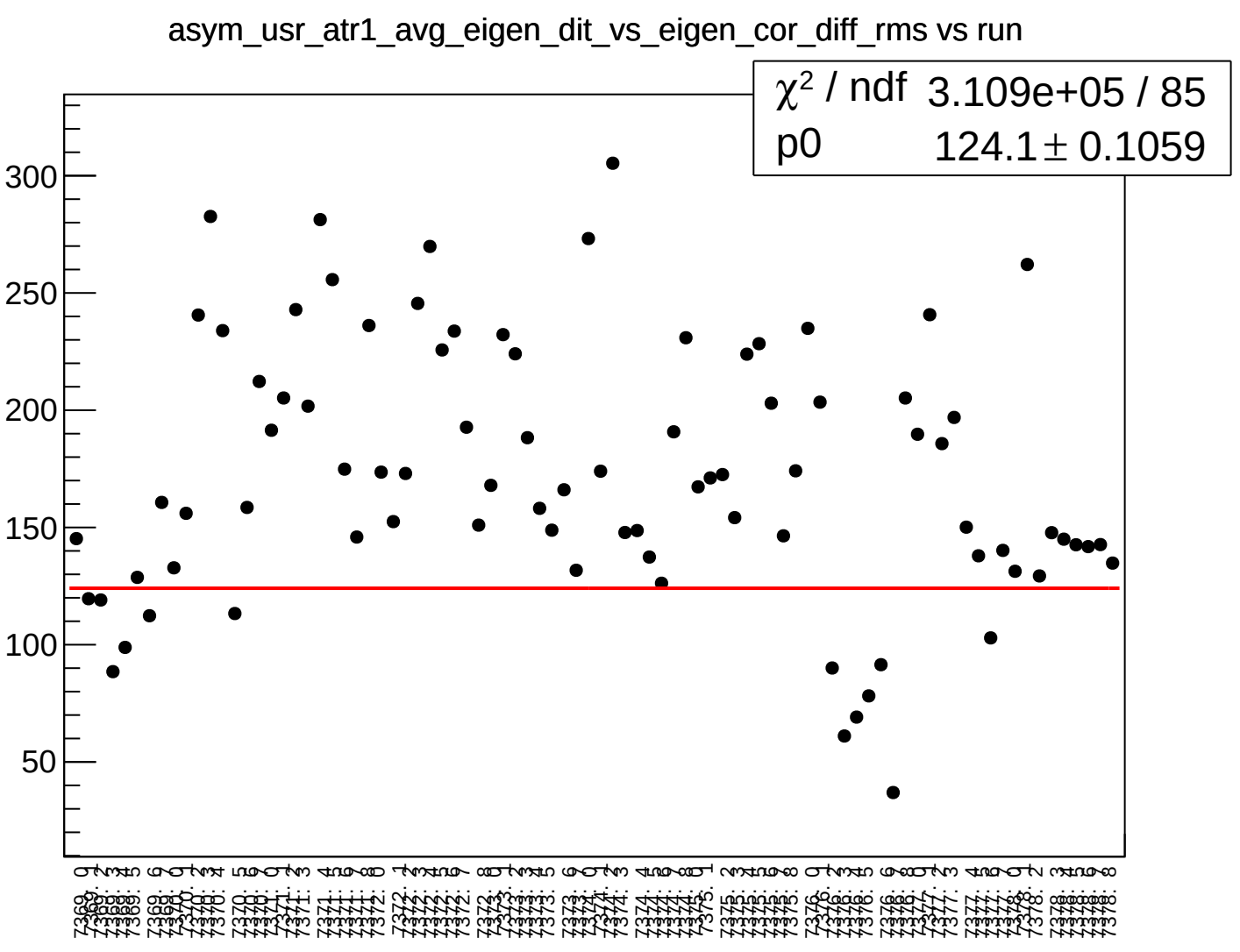

pull1D
Entries 86
Mean 0.007273
Std Dev 1.066

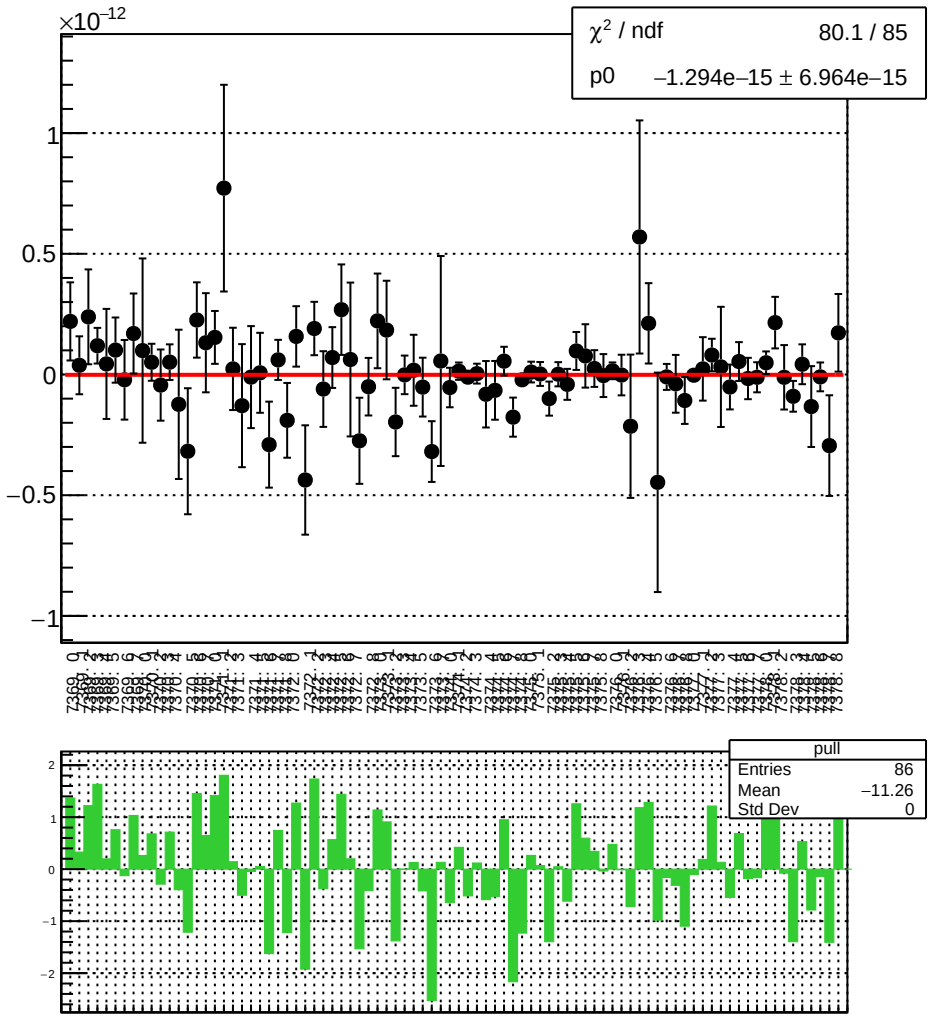

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.223e+04 / 85
p0 0.004144 ± 3.205e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

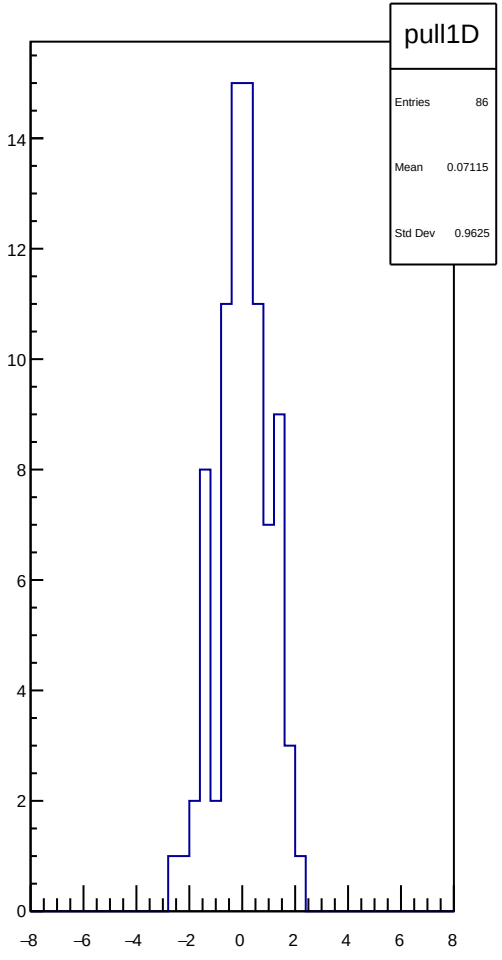

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.1 / 85
p0 −0.1659 ± 0.1497
pull
Entries 86
Mean 98.05
Std Dev 0
pull1D
Entries 86
Mean 0.04939
Std Dev 1.156

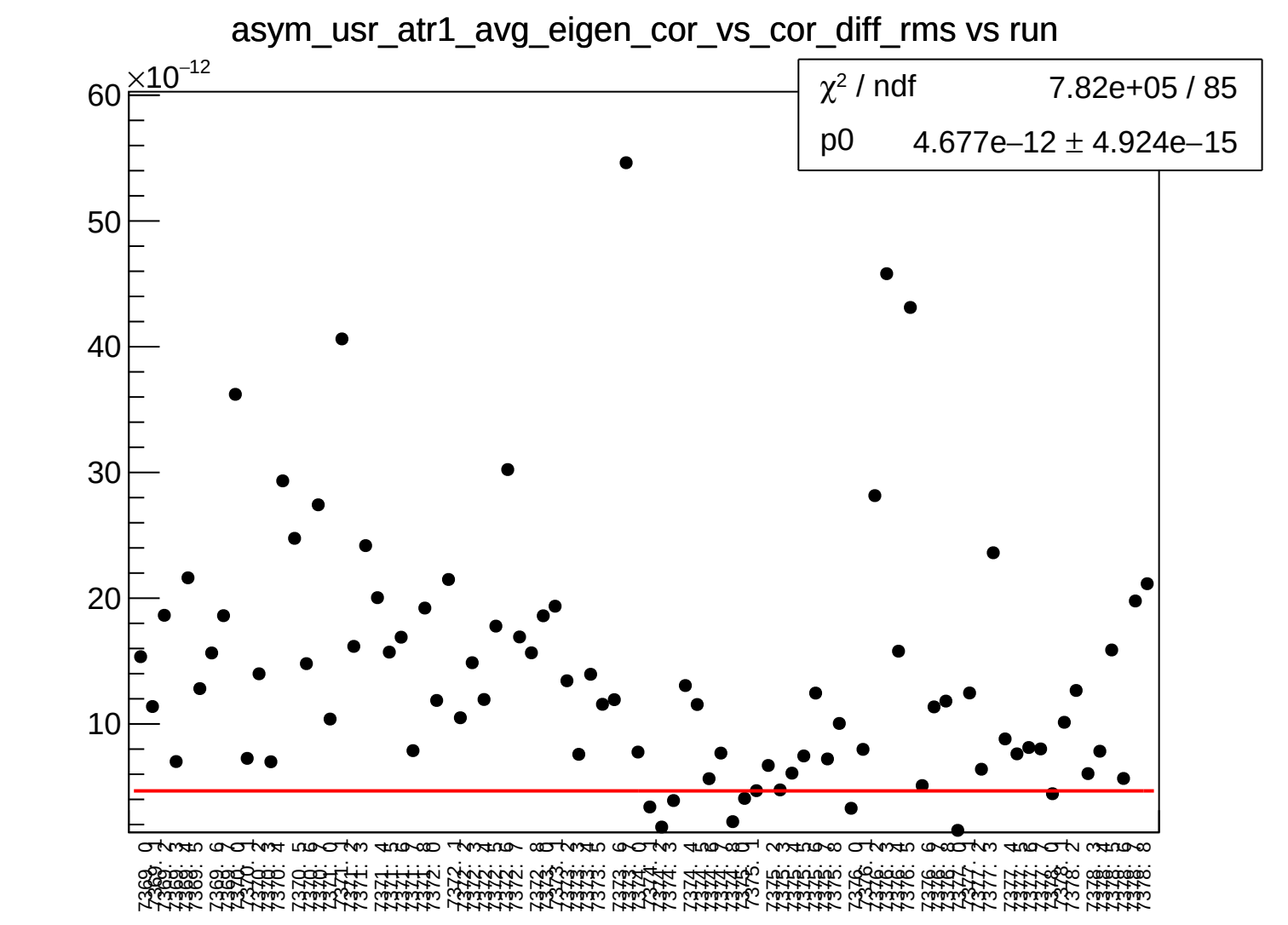

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.109e+05 / 85
p0 124.1 ± 0.1059
300
250
200
150
100
50

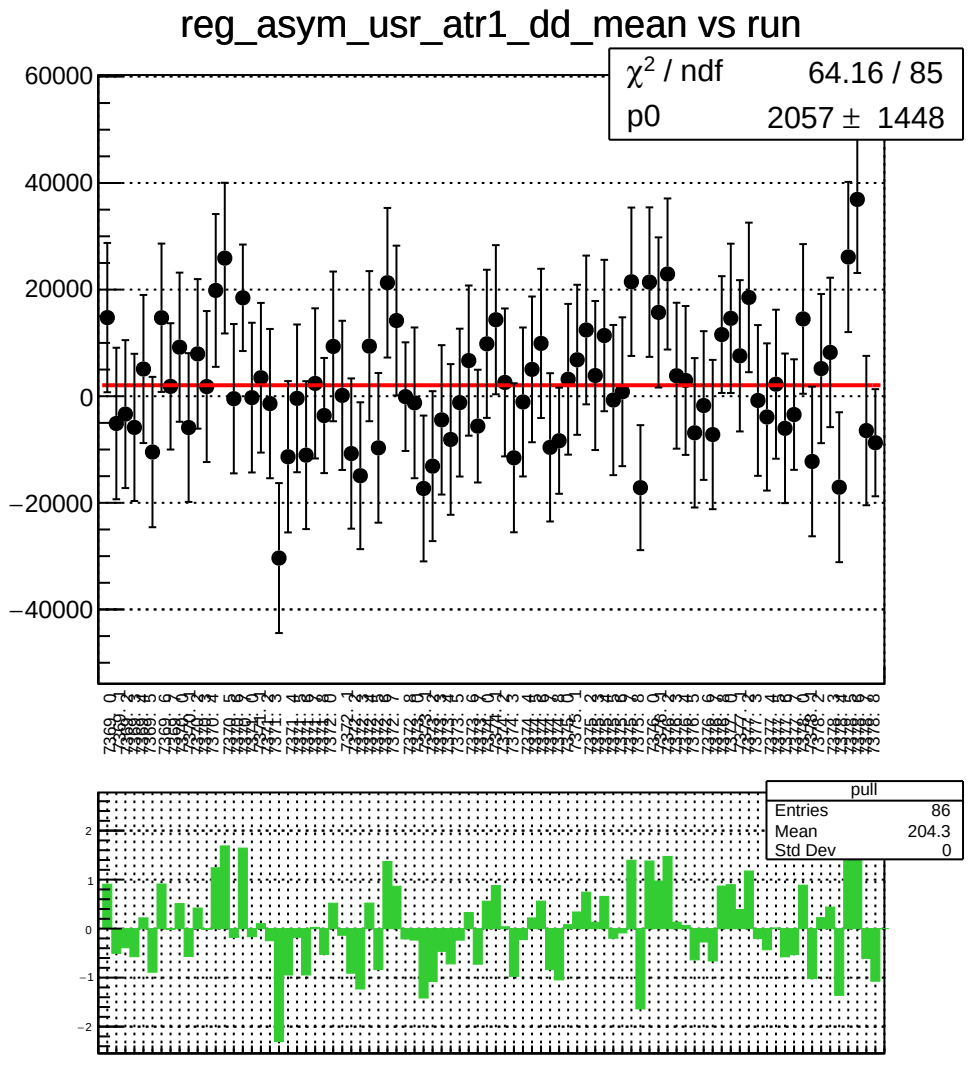

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.1 / 85
p0 −0.1659 ± 0.1497
pull
Entries 86
Mean 98.05
Std Dev 0
pull1D
Entries 86
Mean 0.04939
Std Dev 1.156

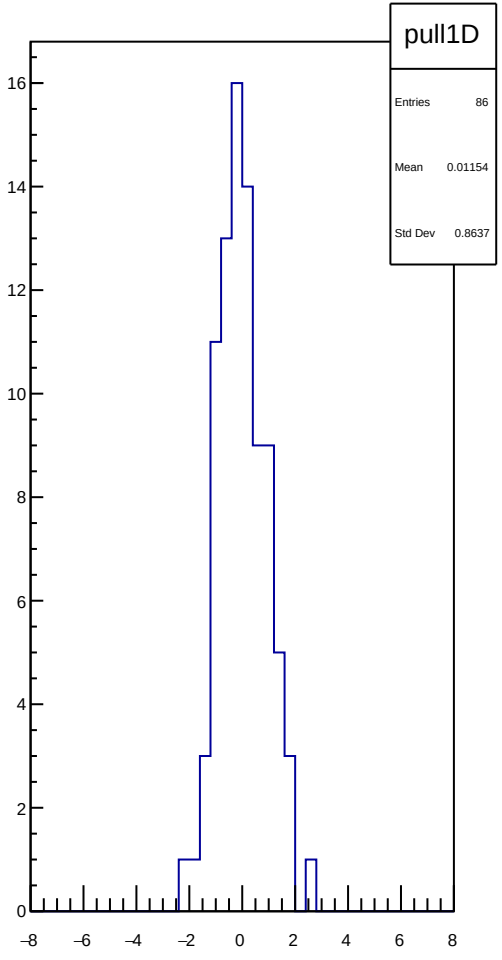

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.109e+05 / 85
p0 124.1 ± 0.1059
300
250
200
150
100
50

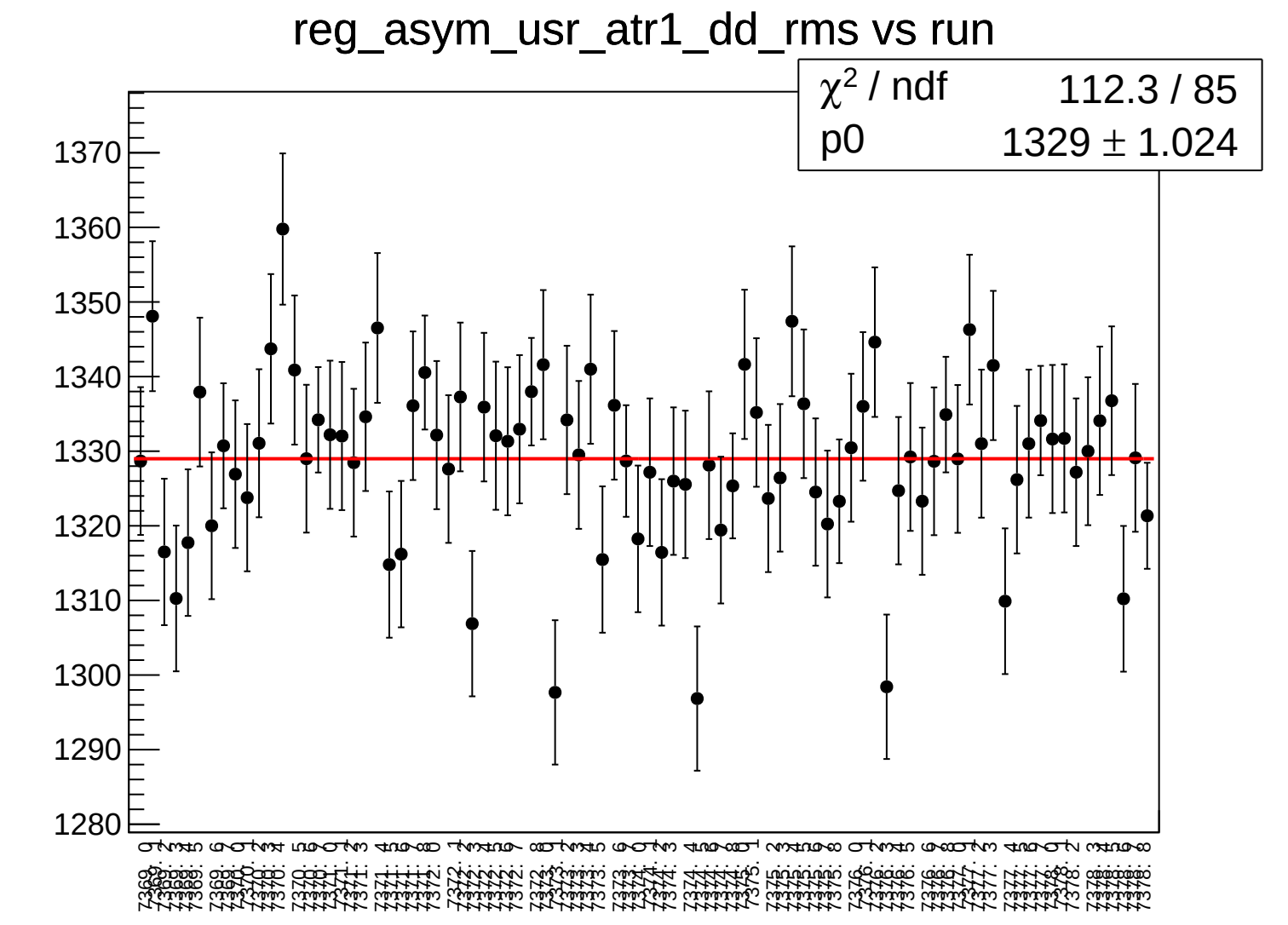

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.1 / 85
p0 −1.294e−15 ± 6.964e−15
pull
Entries 86
Mean −11.26
Std Dev 0

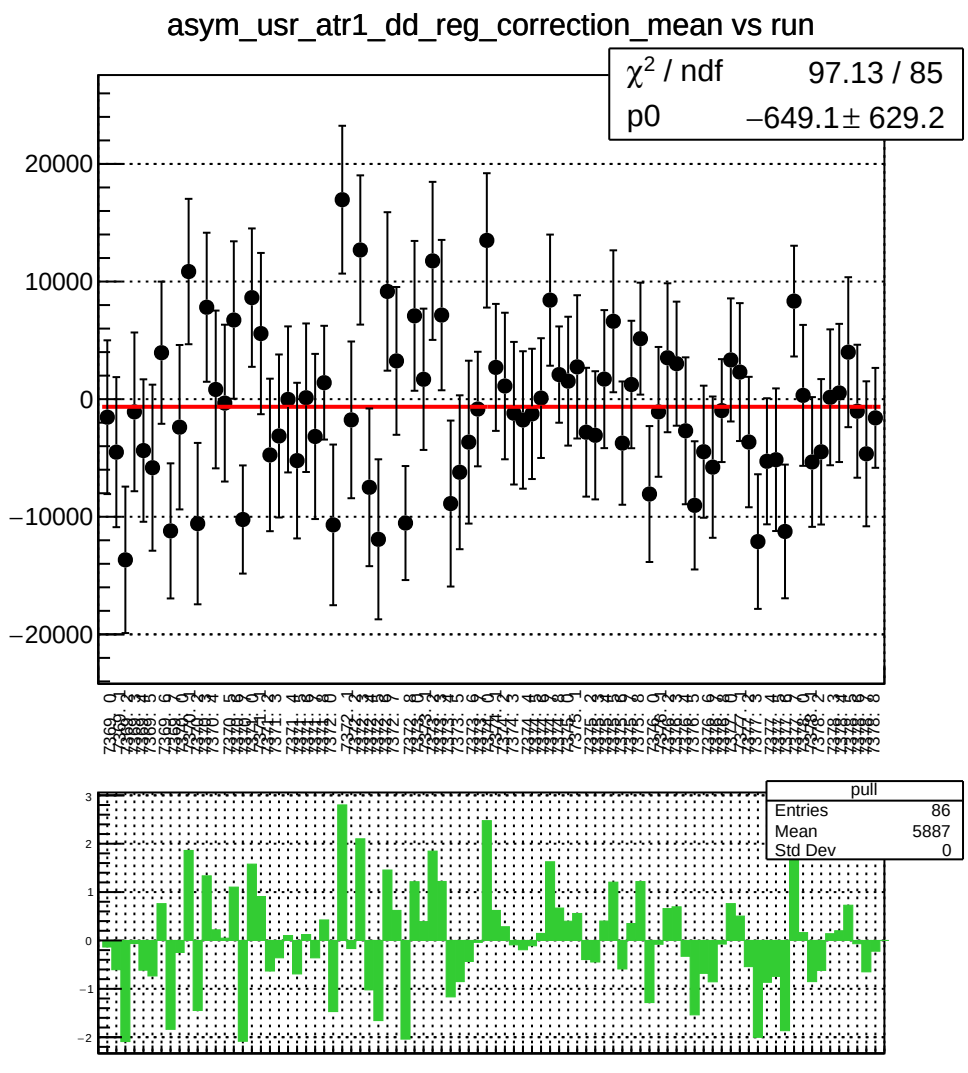

pull1D
Entries 86
Mean 0.07115
Std Dev 0.9625

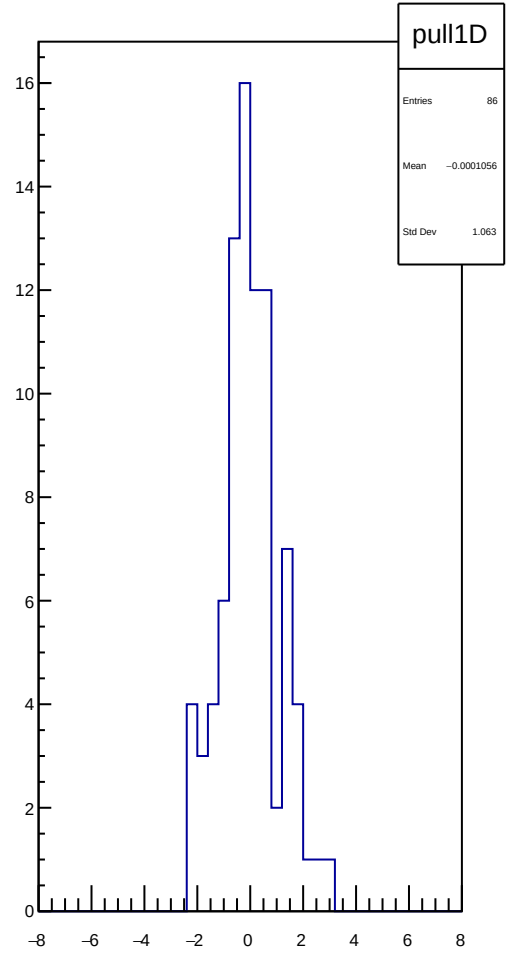

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 7.82e+05 / 85
p0 4.677e−12 ± 4.924e−15

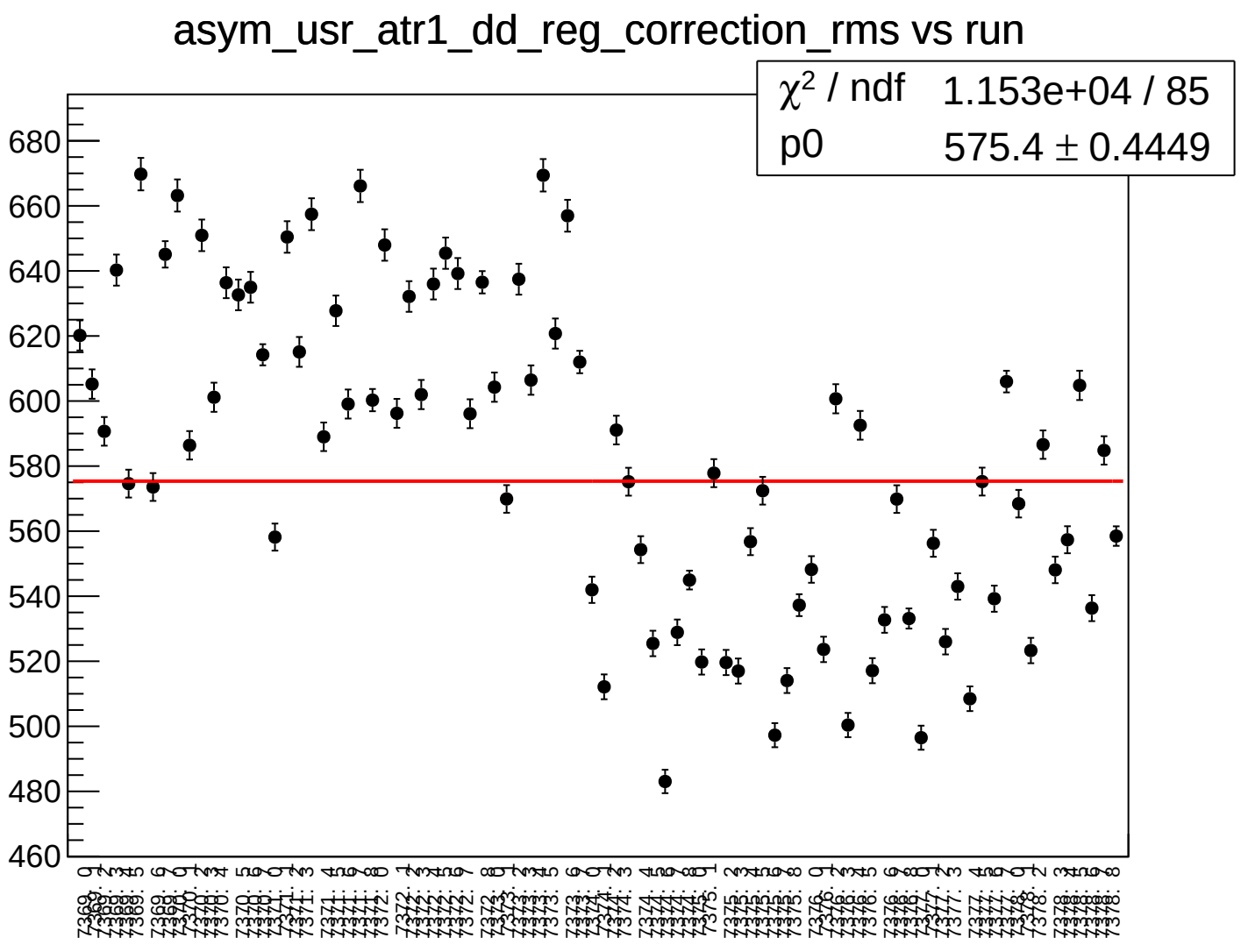

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 64.16 / 85
p0 2057 ± 1448
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 204.3
Std Dev 0
2
1
0
−1
−2

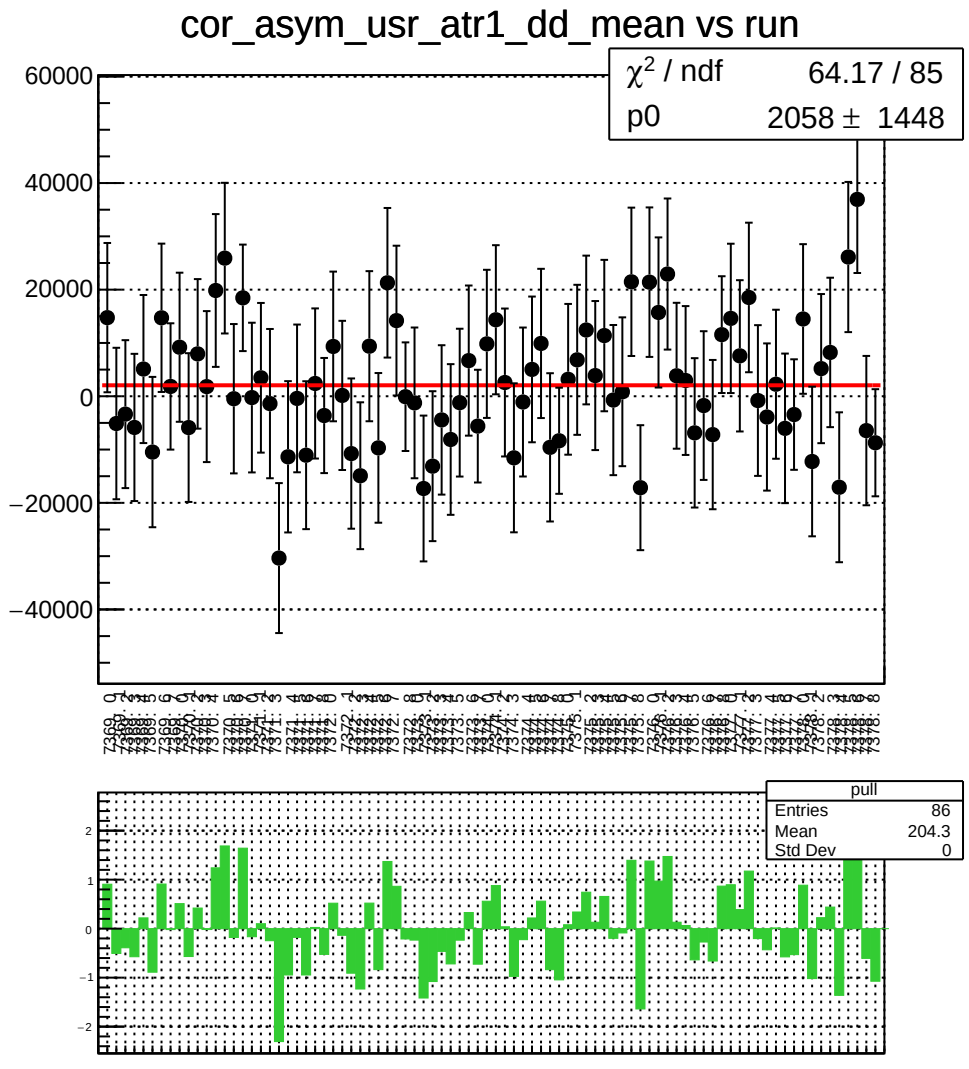

pull1D
Entries 86
Mean 0.01154
Std Dev 0.8637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

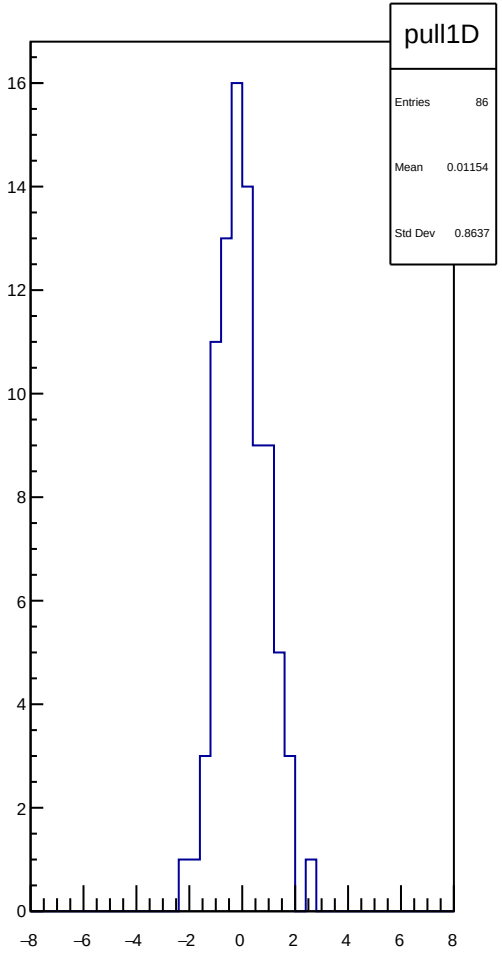

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 112.3 / 85
p0 1329 ± 1.024
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280

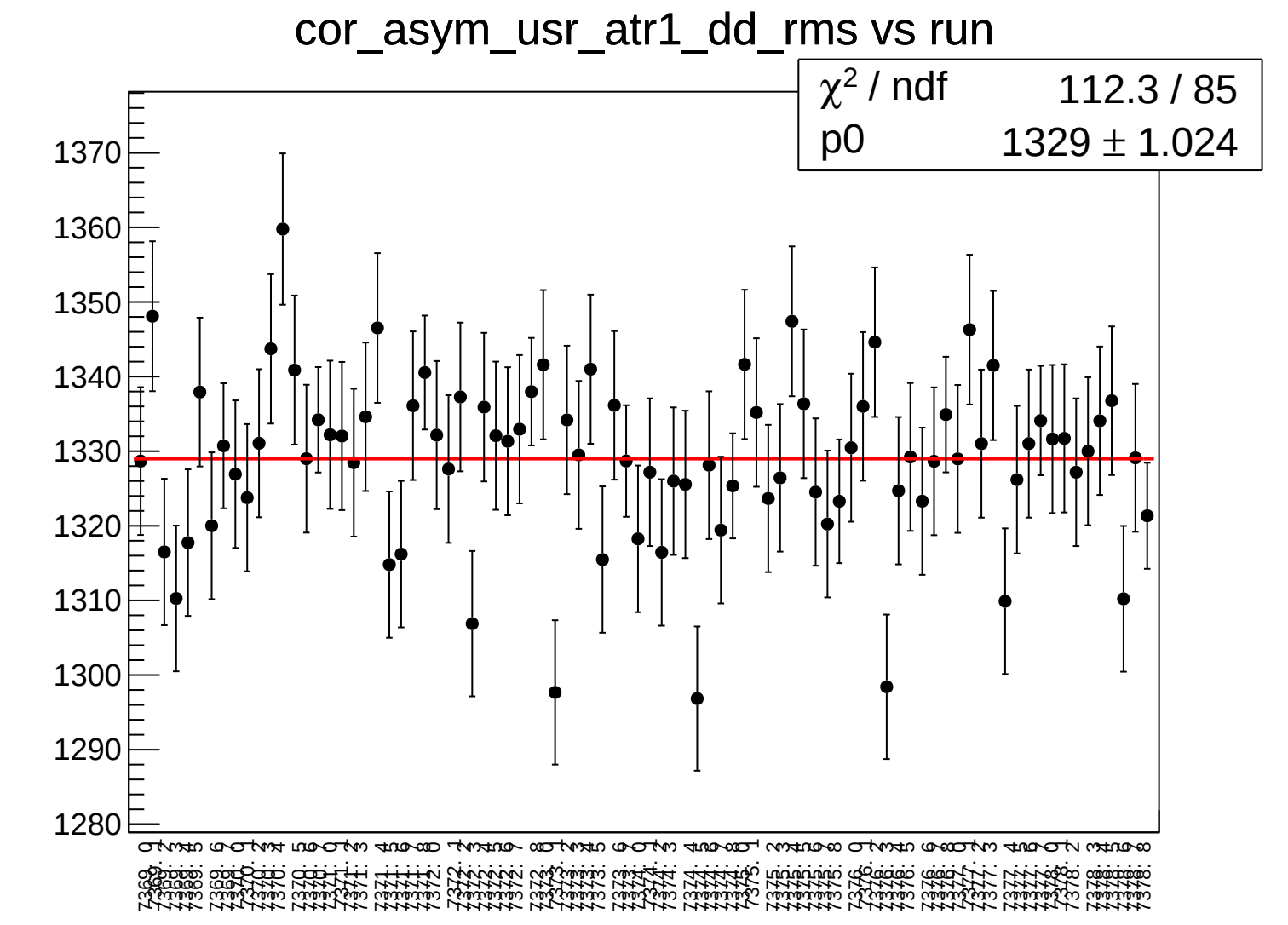

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 97.13 / 85
p0 −649.1± 629.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 5887
Std Dev 0
3
2
1
0
−1
−2

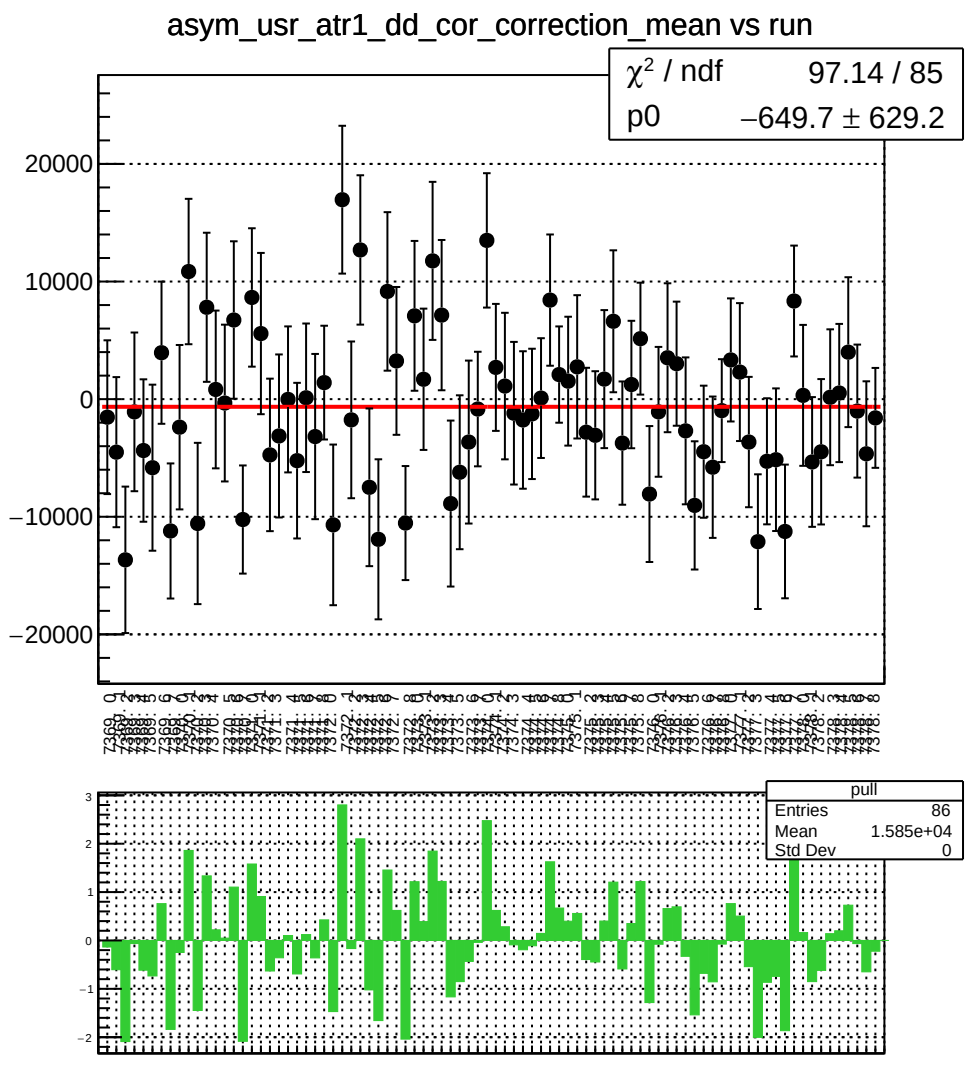

pull1D
Entries 86
Mean −0.0001056
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

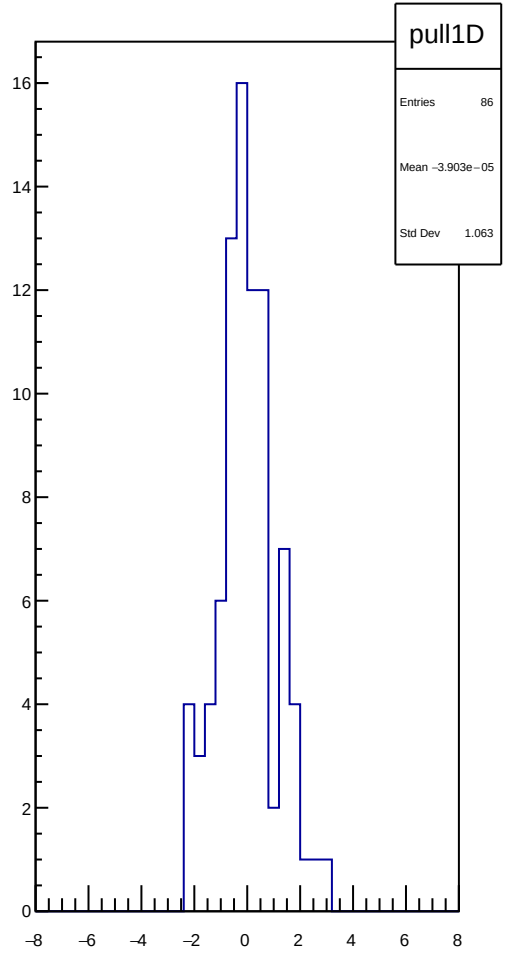

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.153e+04 / 85
p0 575.4 ± 0.4449
680
660
640
620
600
580
560
540
520
500
480
460

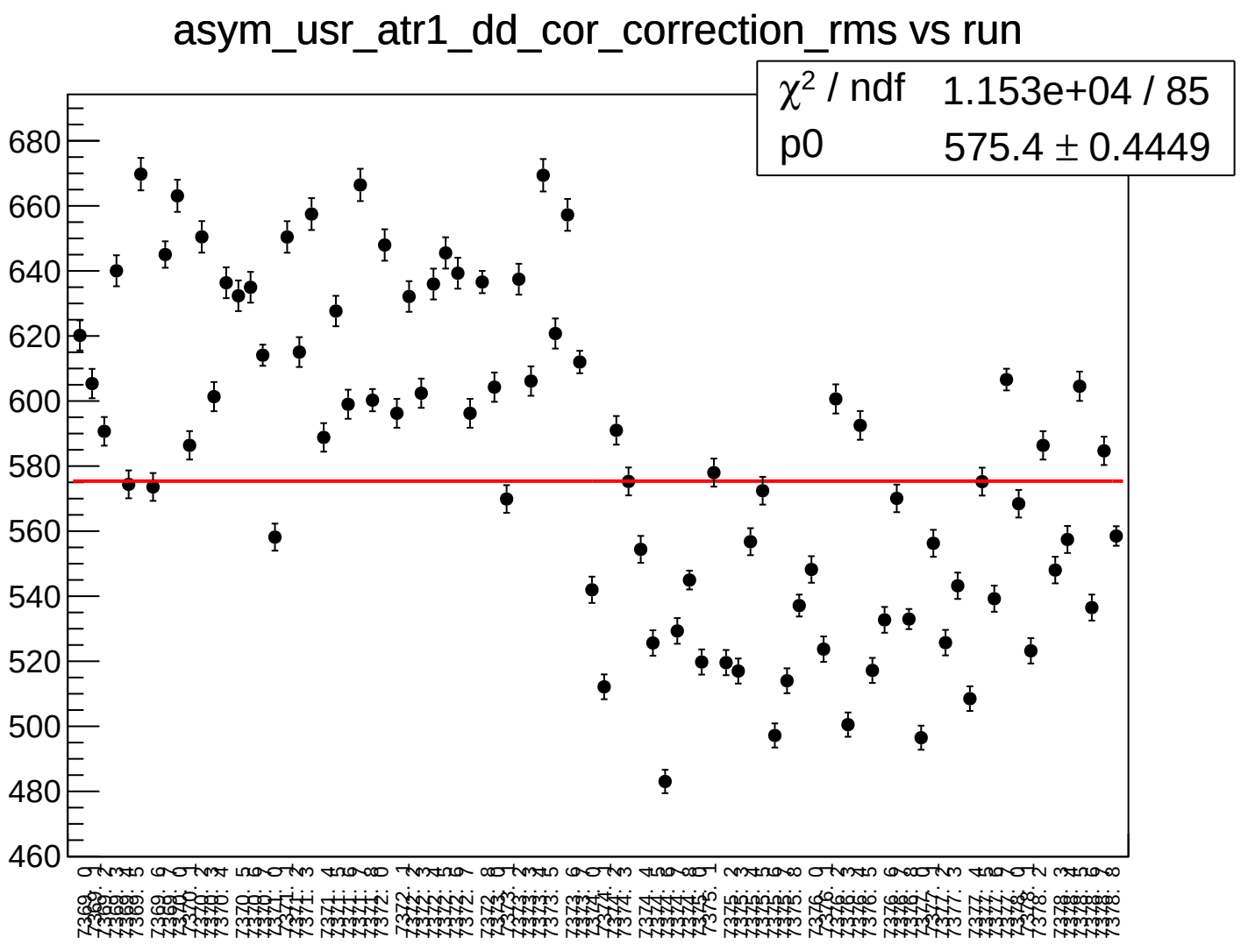

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 64.17 / 85
p0 2058 ± 1448
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 204.3
Std Dev 0
2
1
0
−1
−2

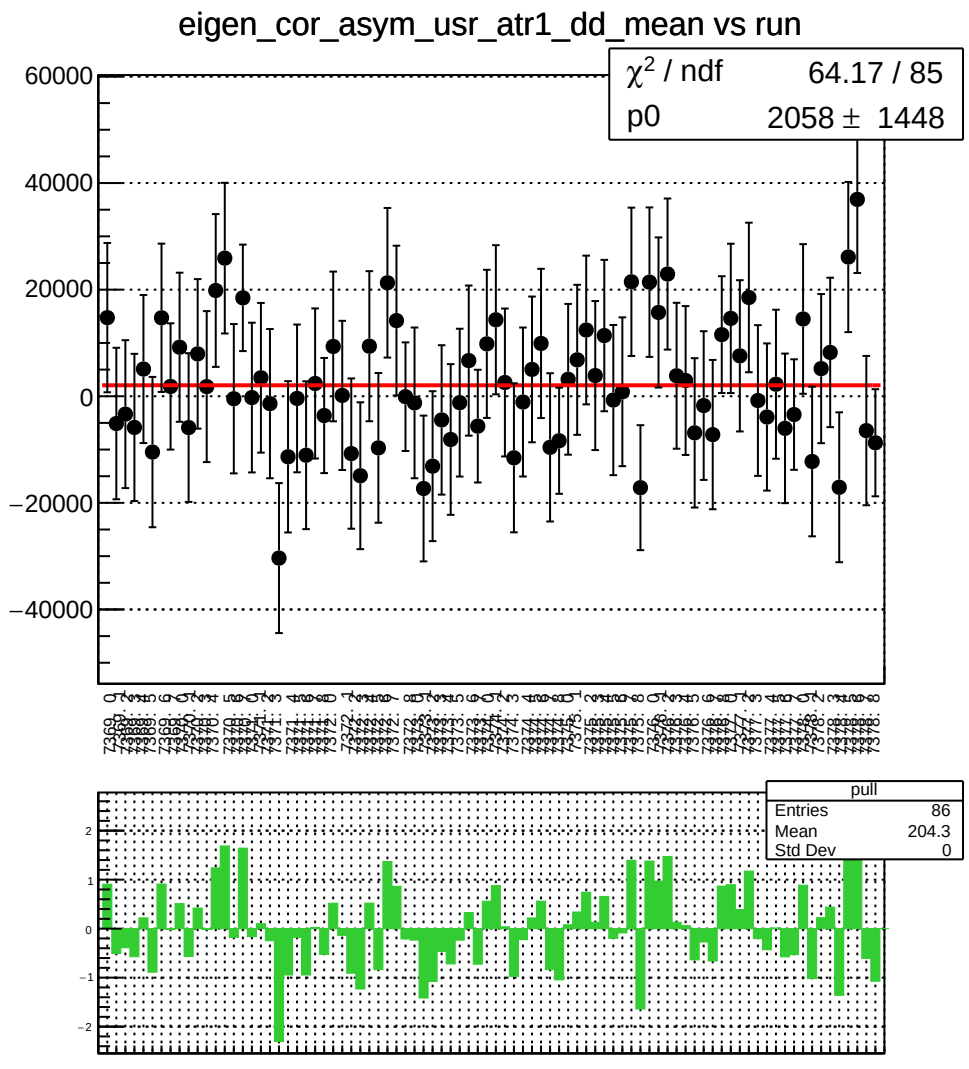

pull1D
Entries 86
Mean 0.01154
Std Dev 0.8637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

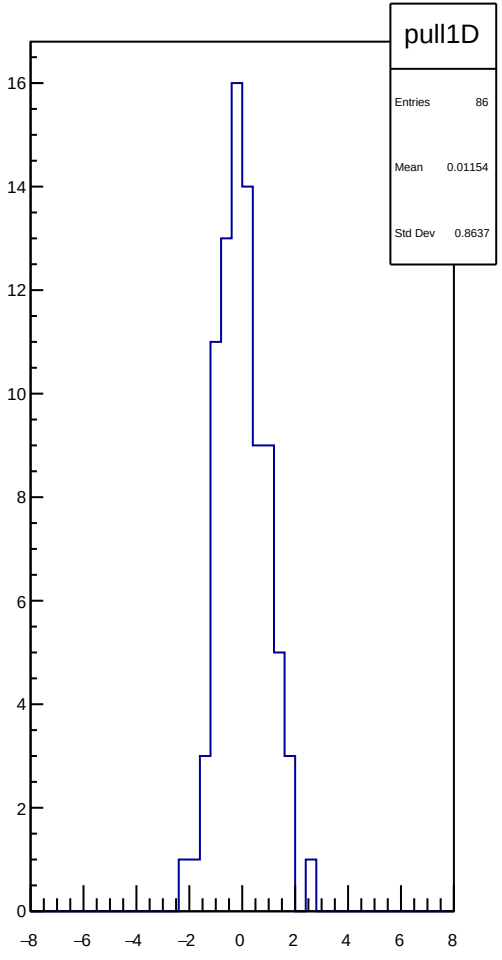

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 112.3 / 85
p0 1329 ± 1.024
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280

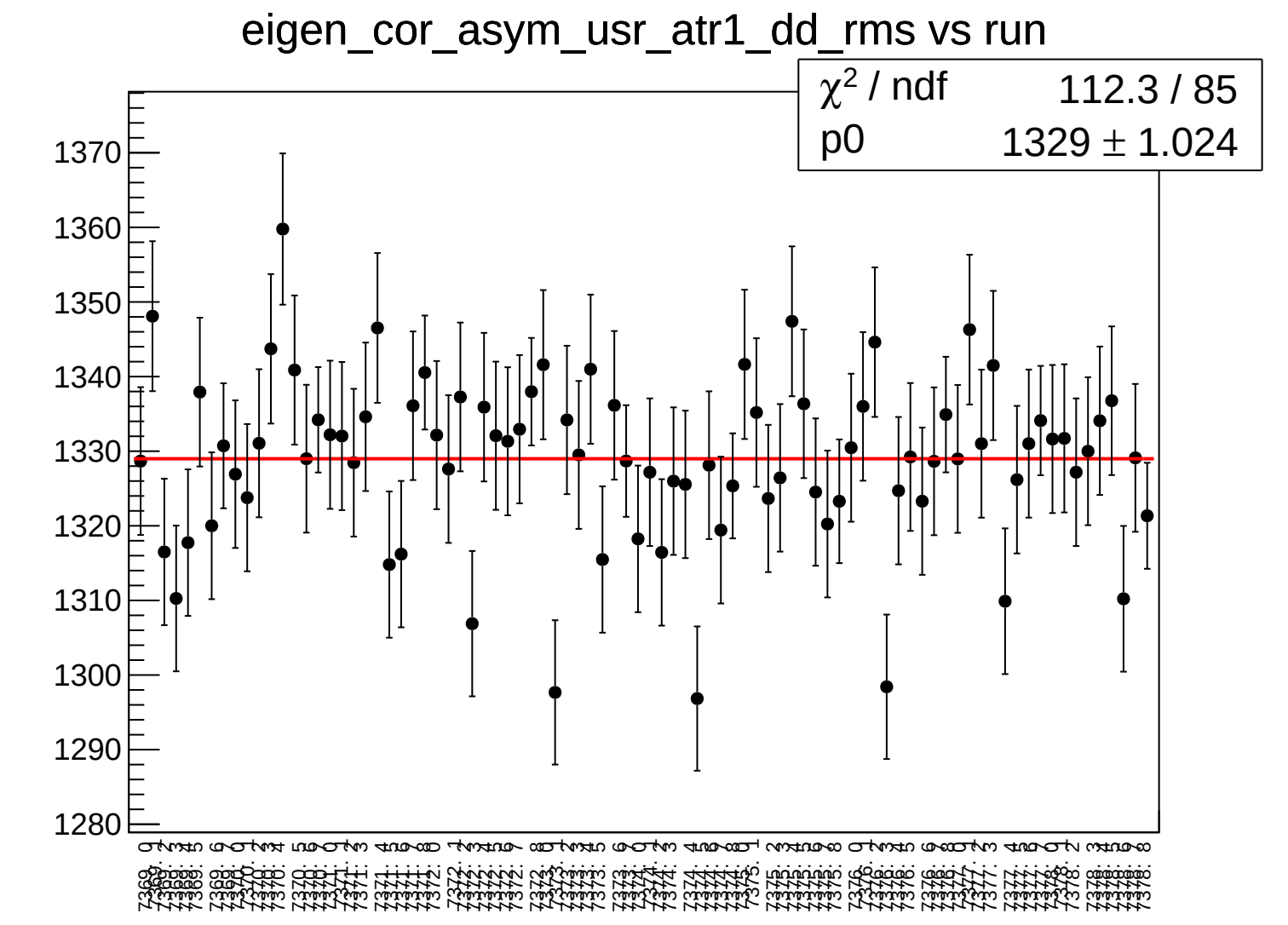

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 97.14 / 85
p0 −649.7 ± 629.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 1.585e+04
Std Dev 0
3
2
1
0
−1
−2

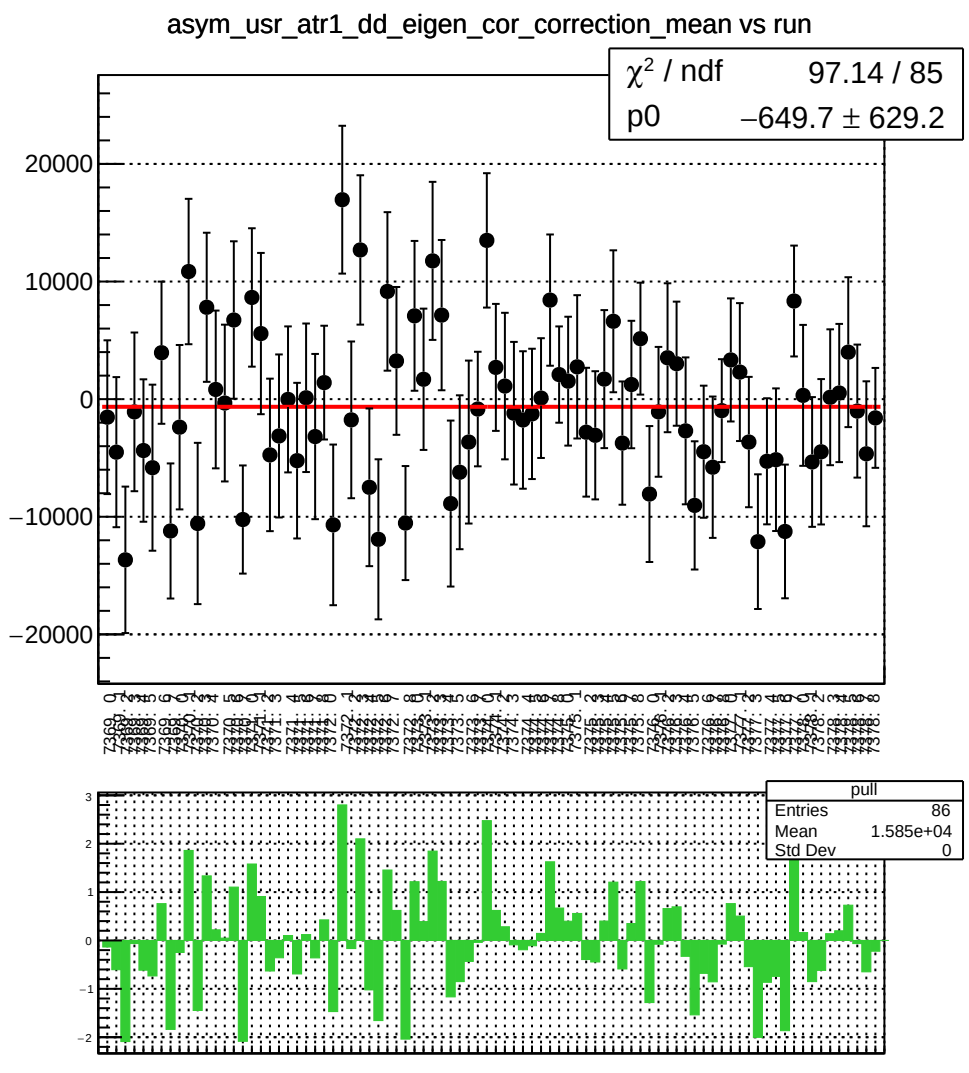

pull1D
Entries 86
Mean −3.903e−05
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

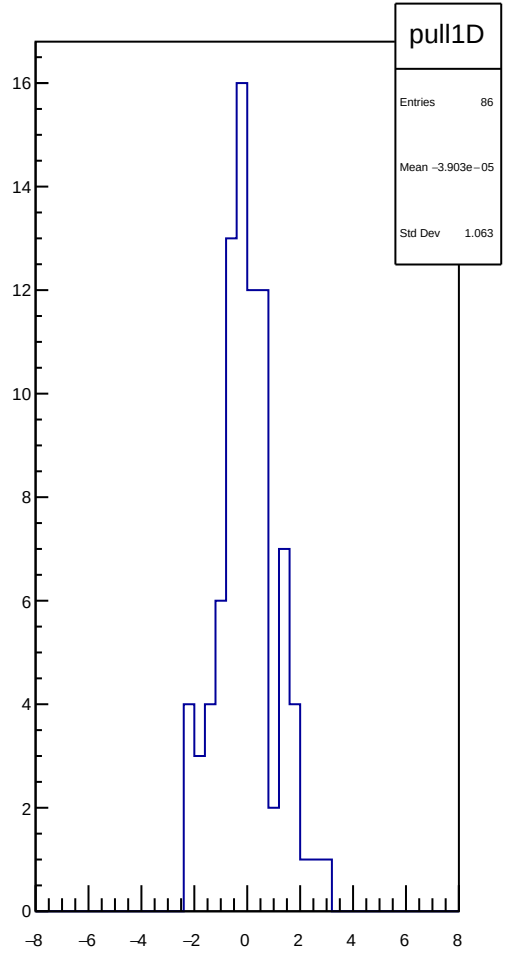

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.153e+04 / 85
p0 575.4 ± 0.4449
680
660
640
620
600
580
560
540
520
500
480
460

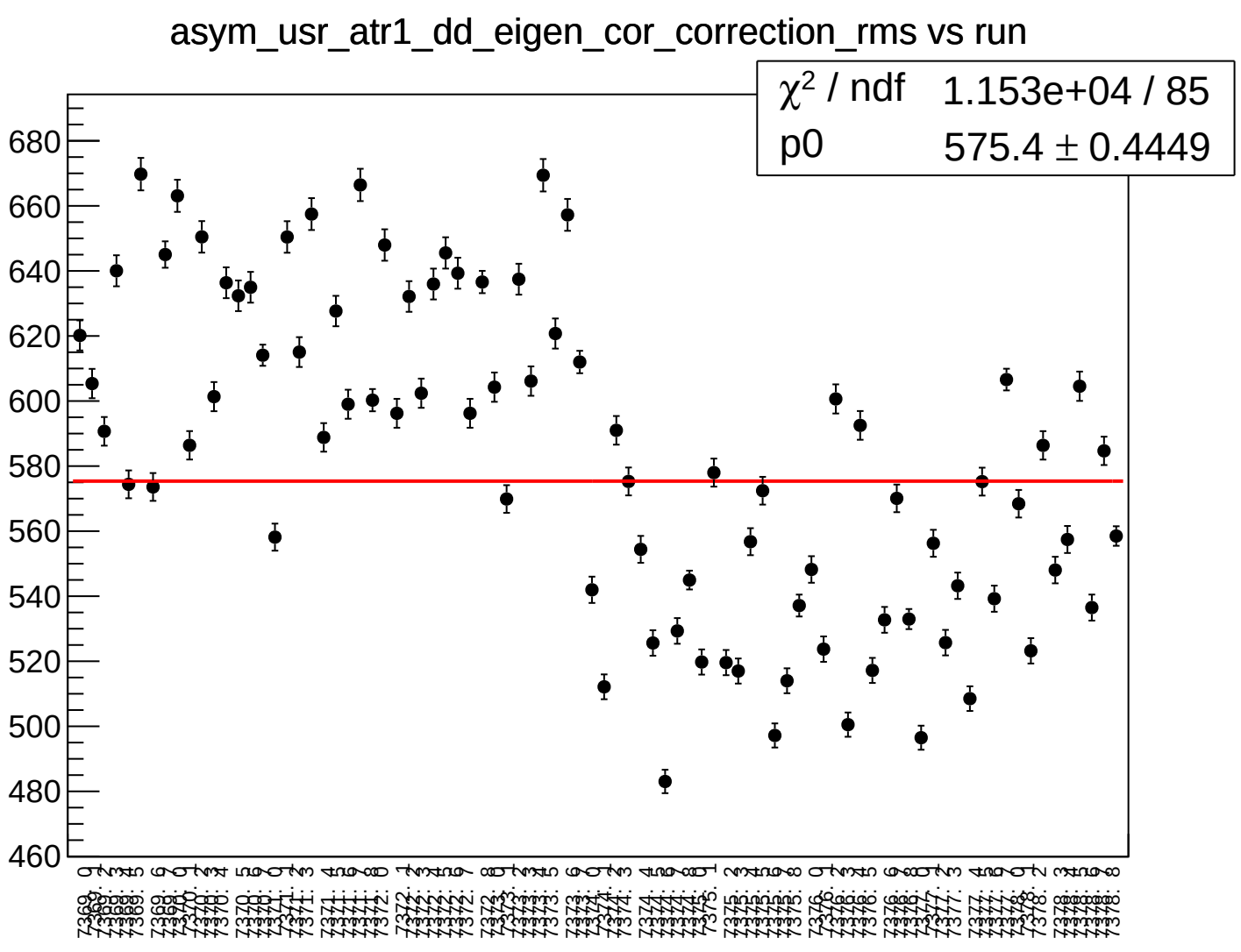

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 64.17 / 85
p0 2058 ± 1448
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 204.3
Std Dev 0
2
1
0
−1
−2

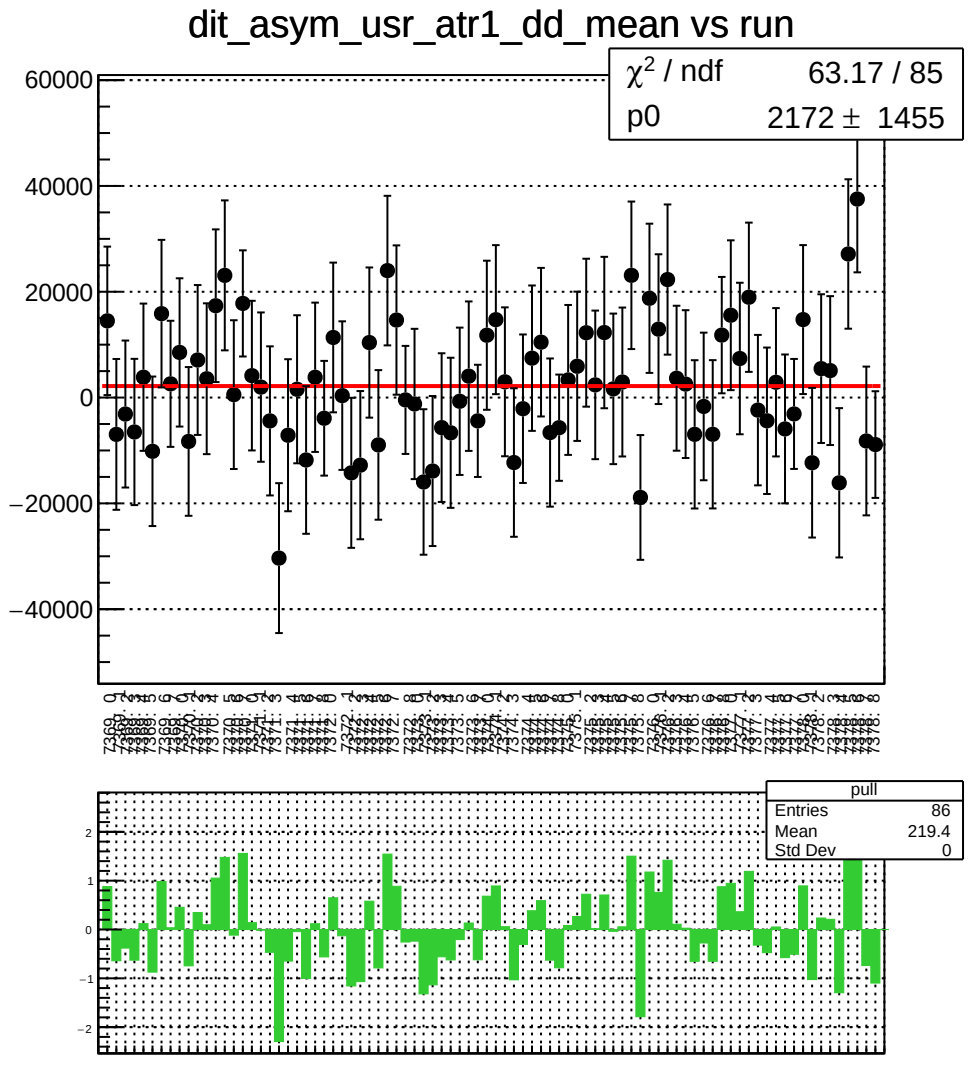

pull1D
Entries 86
Mean 0.01154
Std Dev 0.8637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

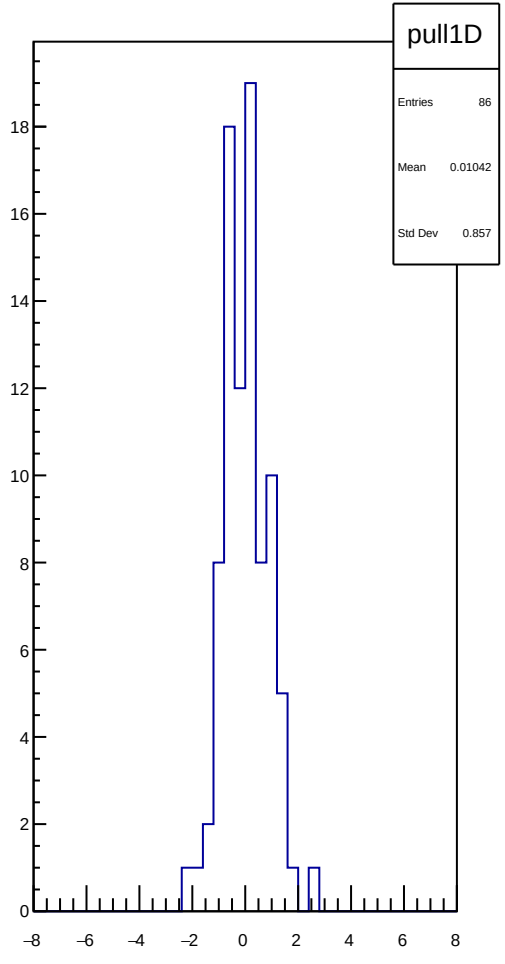

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 112.3 / 85
p0 1329 ± 1.024
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280

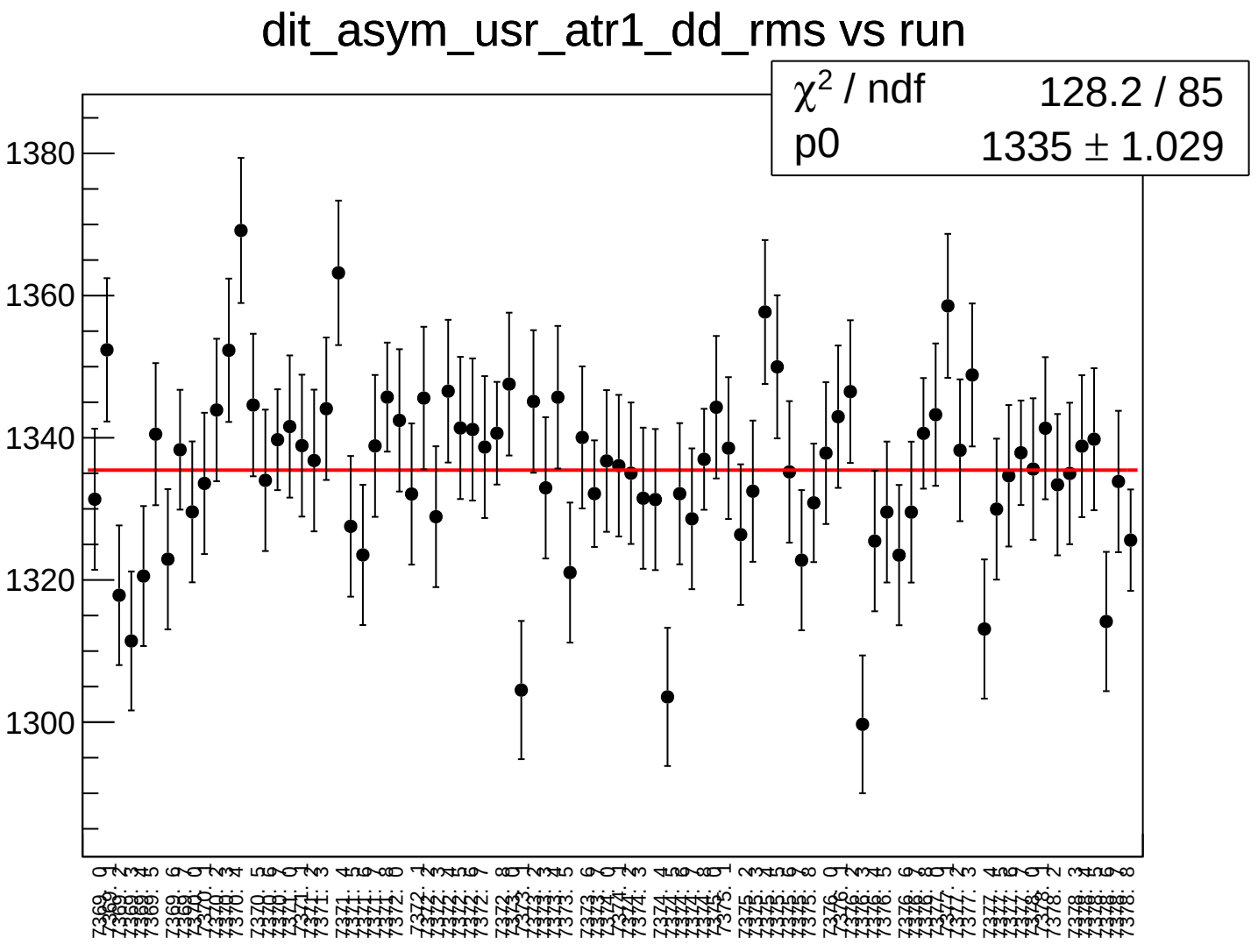

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.14 / 85
p0 −649.7 ± 629.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 1.585e+04
Std Dev 0
3
2
1
0
−1
−2

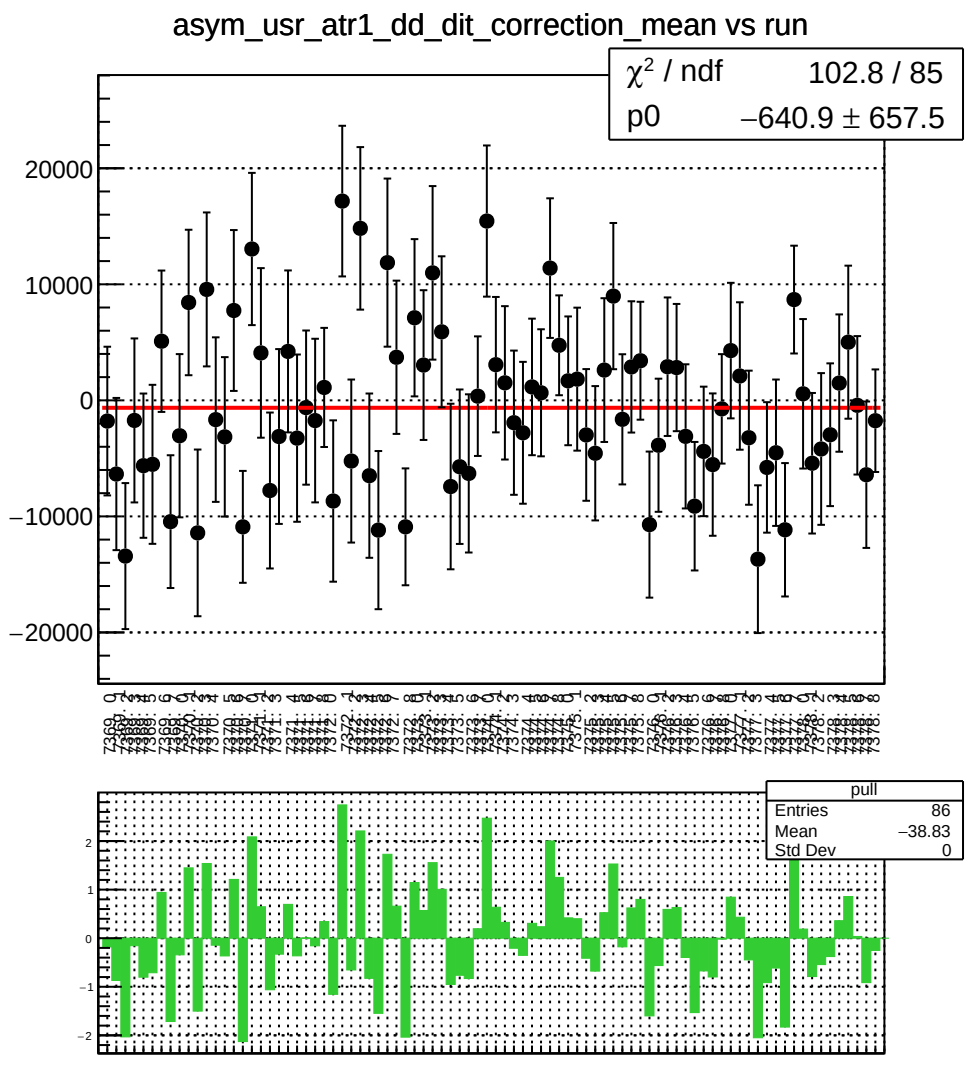

pull1D
Entries 86
Mean −3.903e−05
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

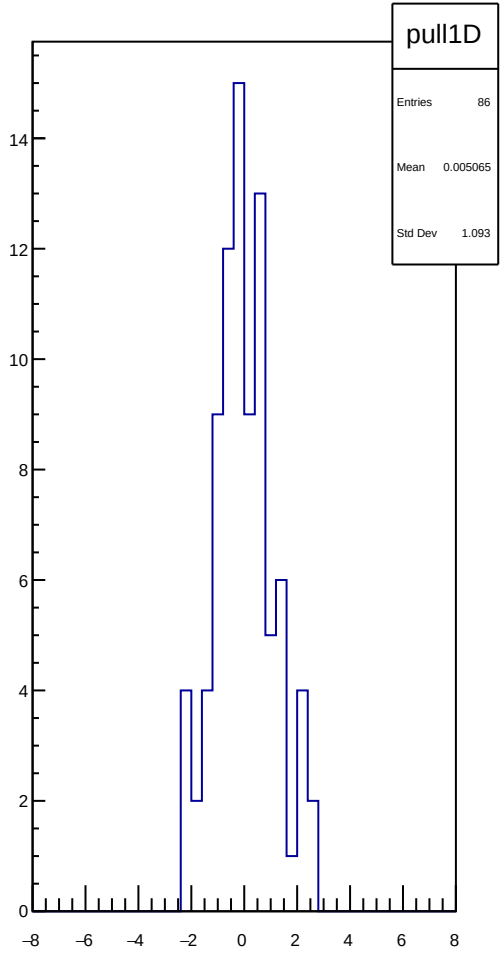

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.153e+04 / 85
p0 575.4 ± 0.4449
680
660
640
620
600
580
560
540
520
500
480
460

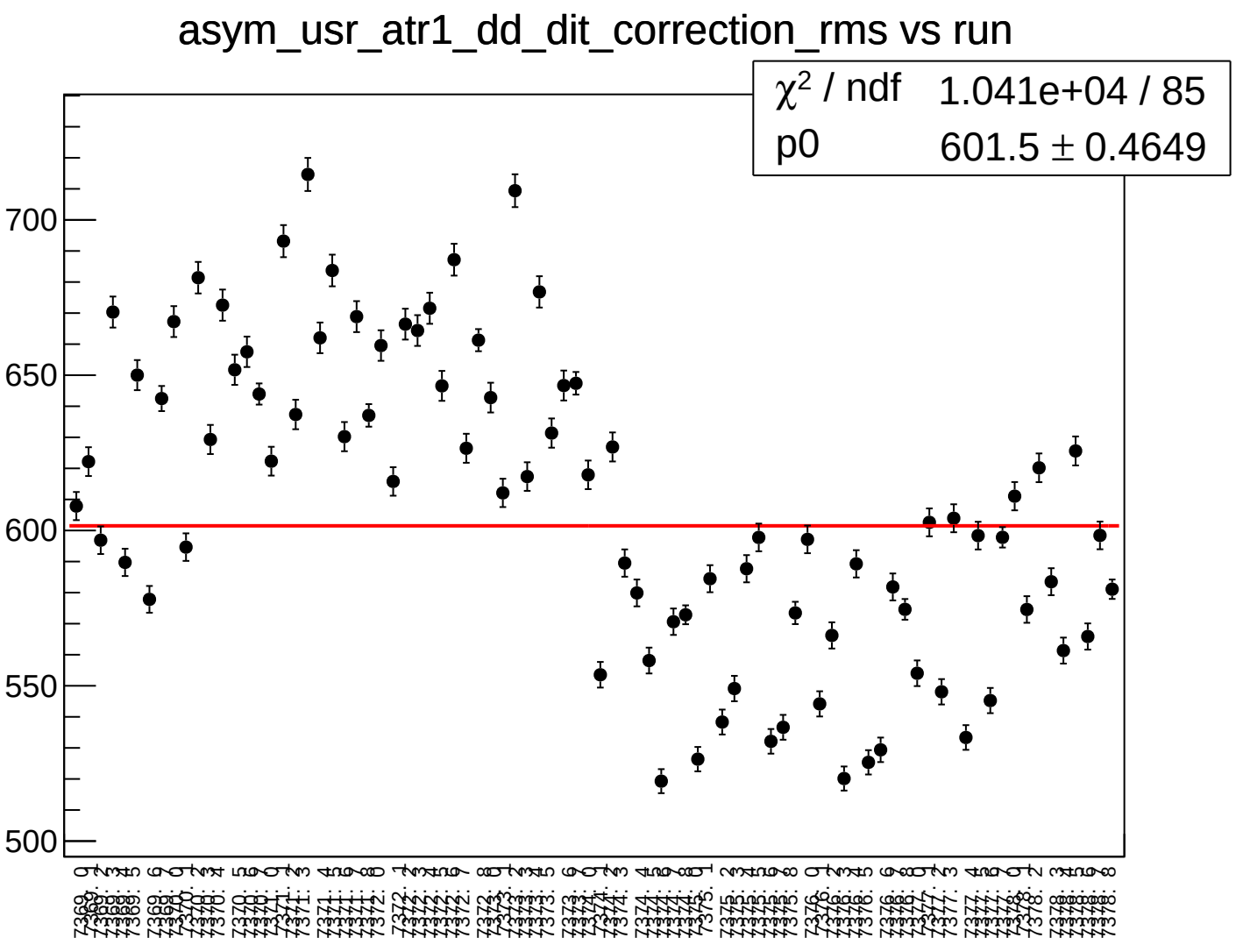

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 63.17 / 85
p0 2172 ± 1455
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 219.4
Std Dev 0
2
1
0
−1
−2

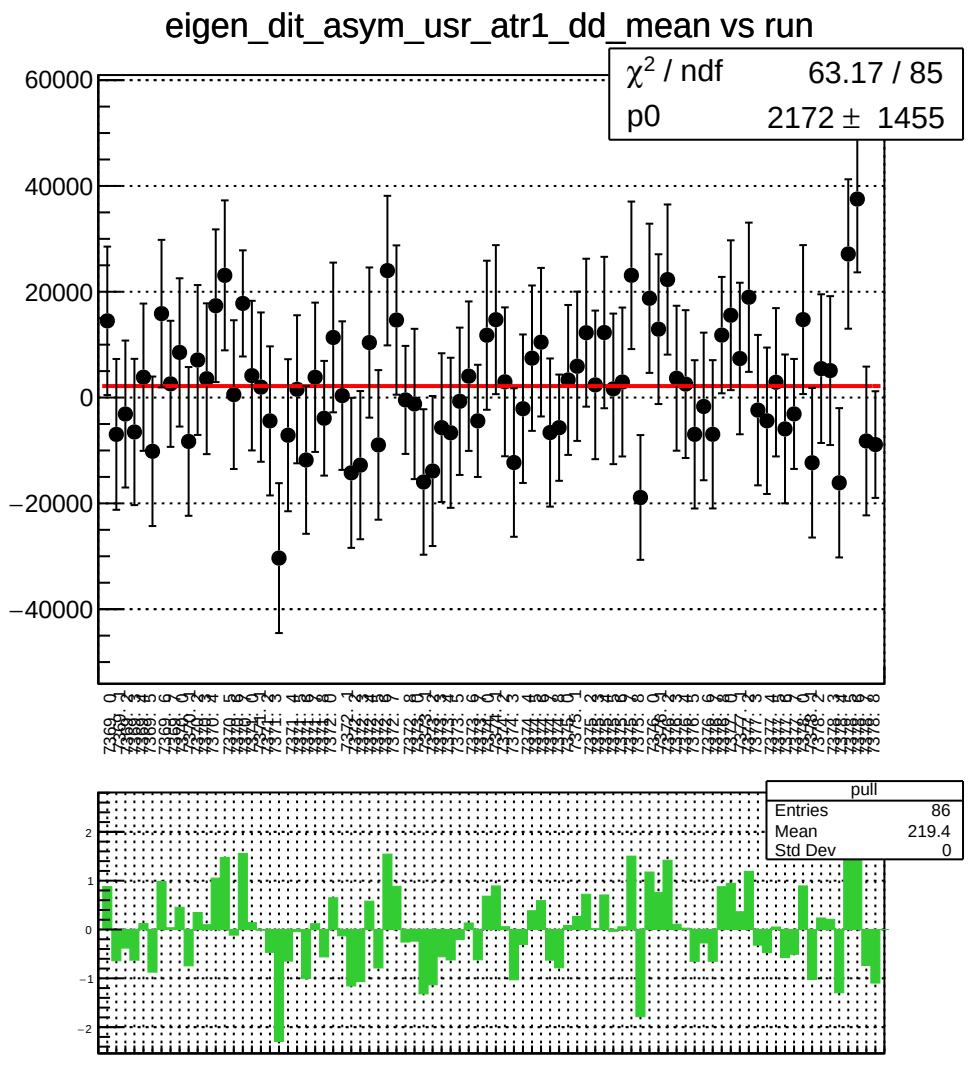

pull1D
Entries 86
Mean 0.01042
Std Dev 0.857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

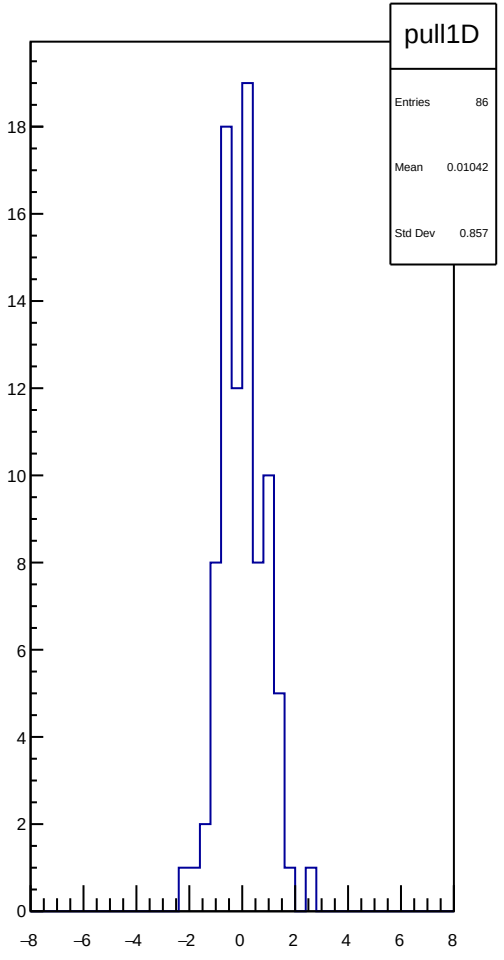

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 128.2 / 85
p0 1335 ± 1.029
1380
1360
1340
1320
1300

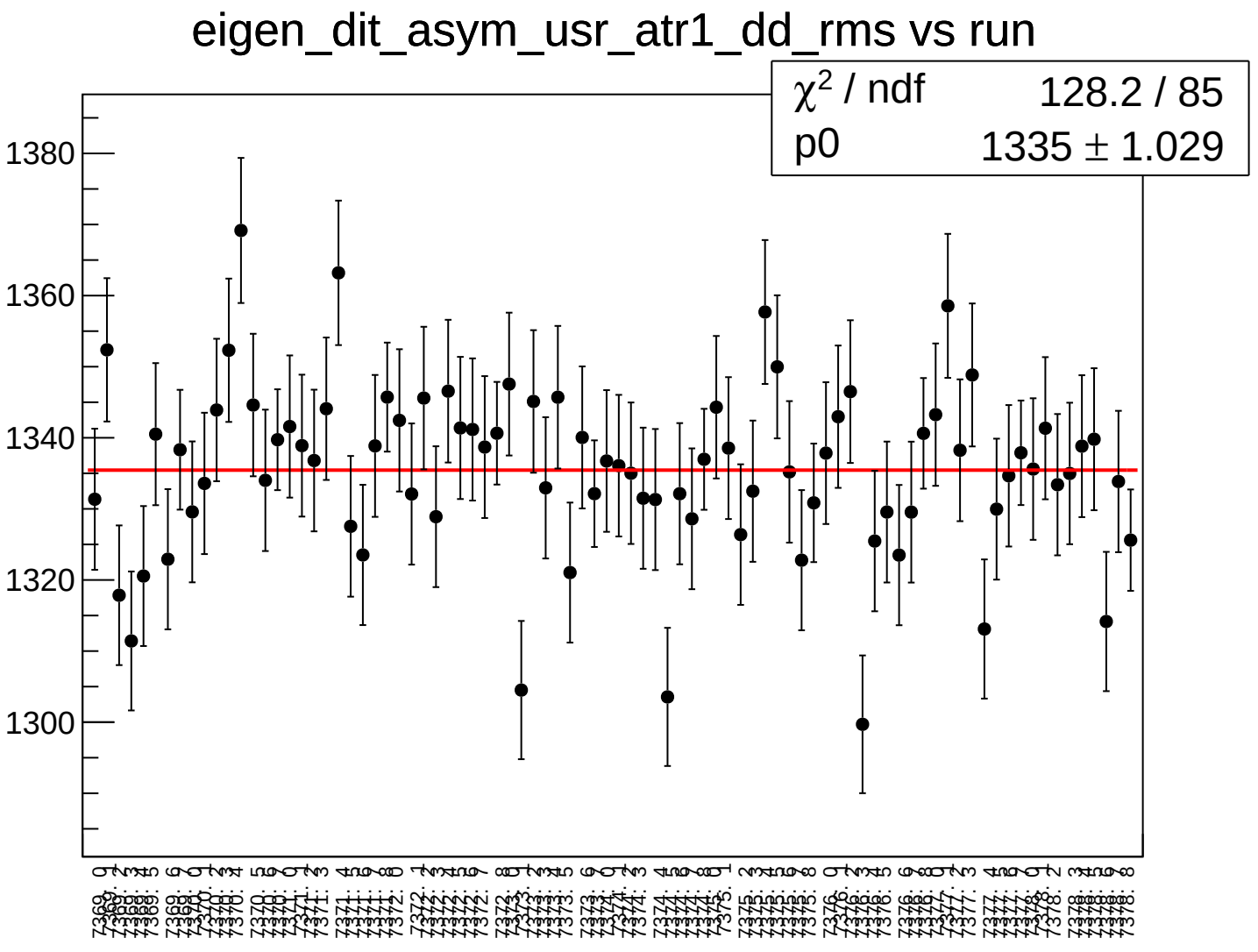

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 102.8 / 85
p0 −640.9 ± 657.5
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −38.83
Std Dev 0
2
1
0
−1
−2

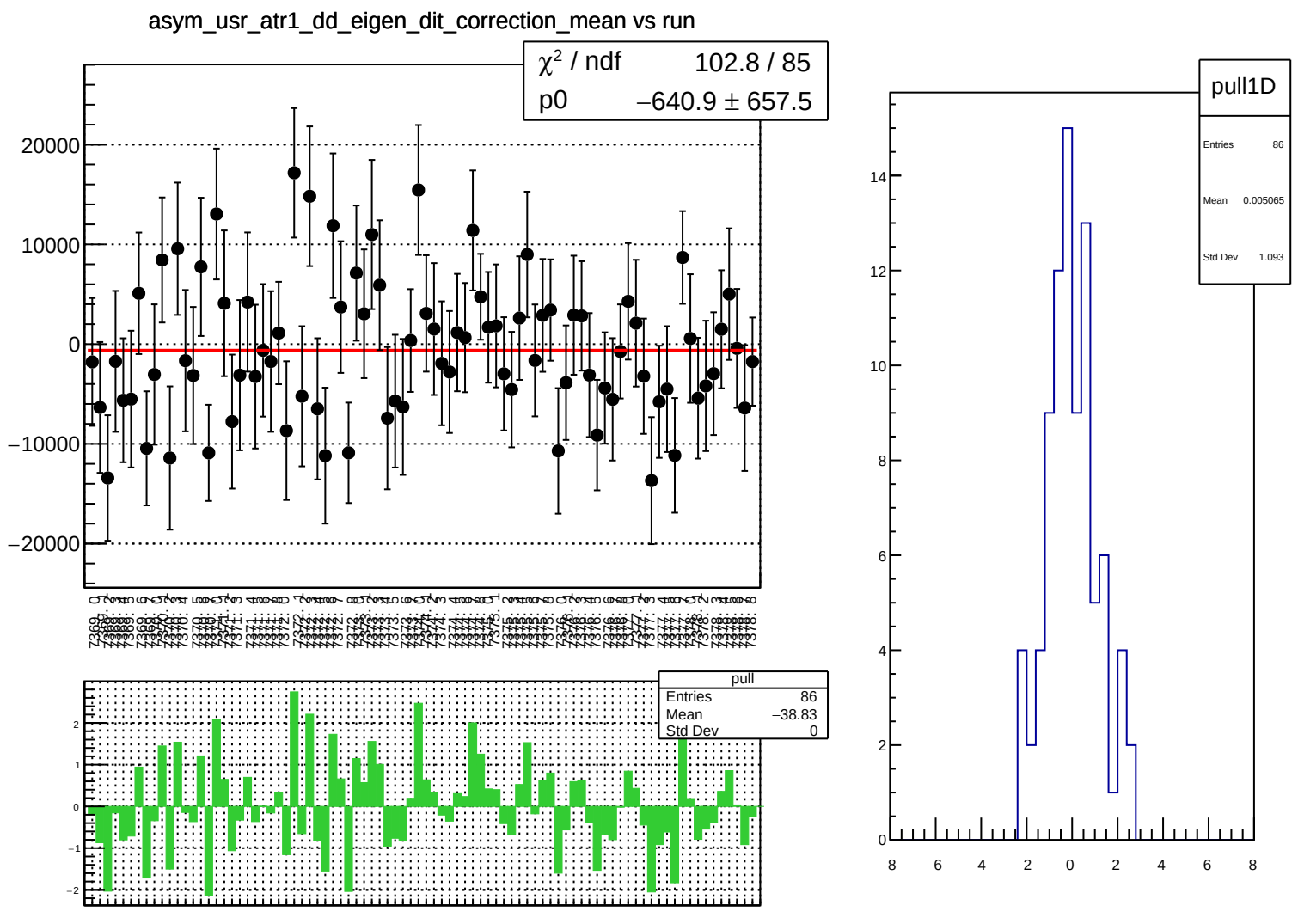

pull1D
Entries 86
Mean 0.005065
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

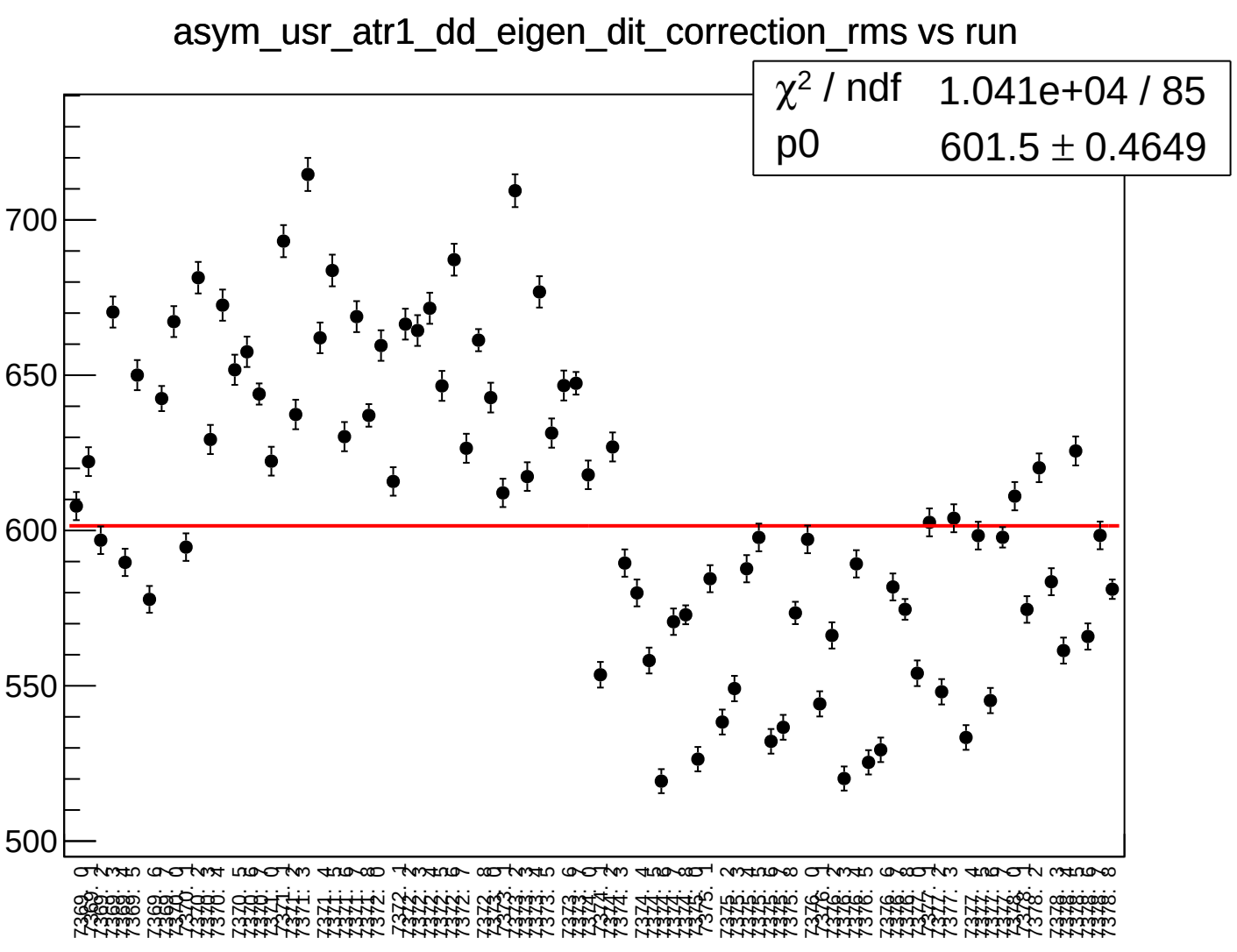

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.041e+04 / 85
p0 601.5 ± 0.4649
700
650
600
550
500

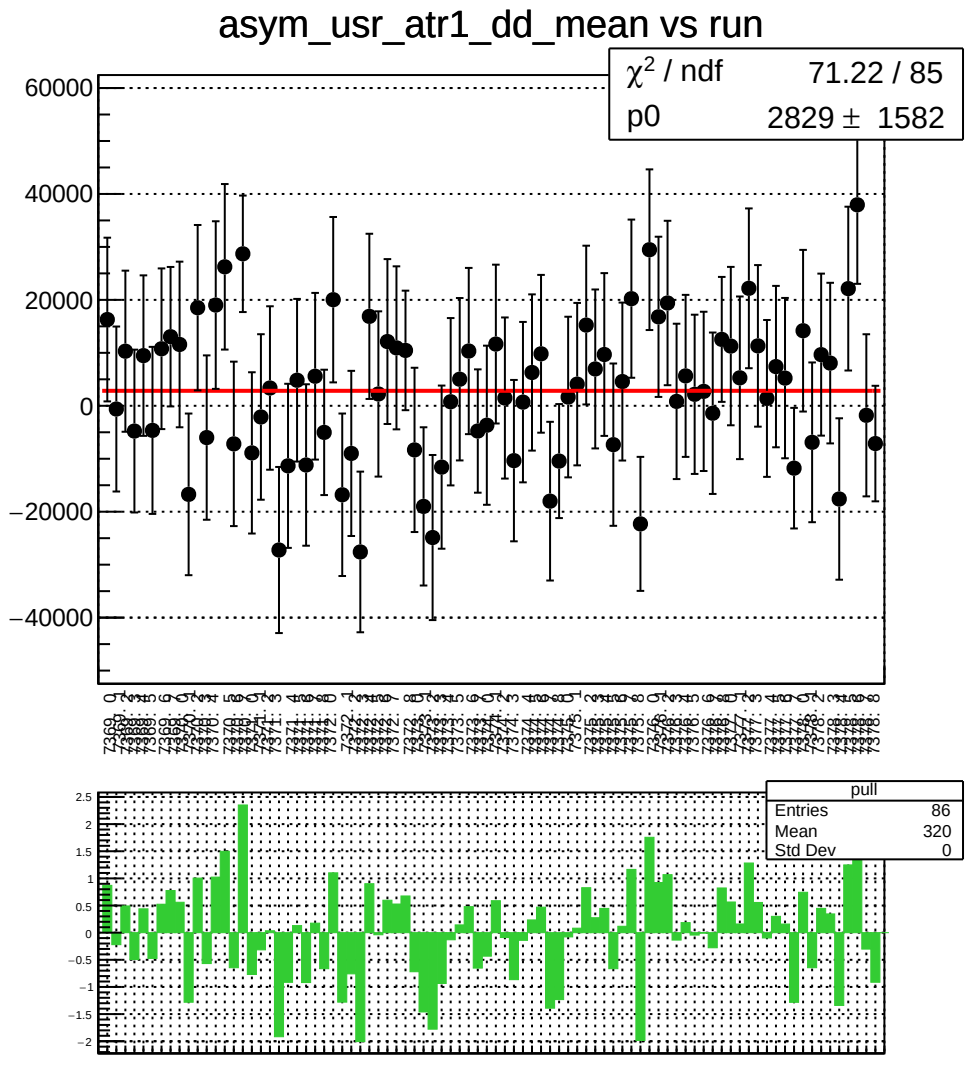

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 63.17 / 85
p0 2172 ± 1455
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 219.4
Std Dev 0
2
1
0
−1
−2

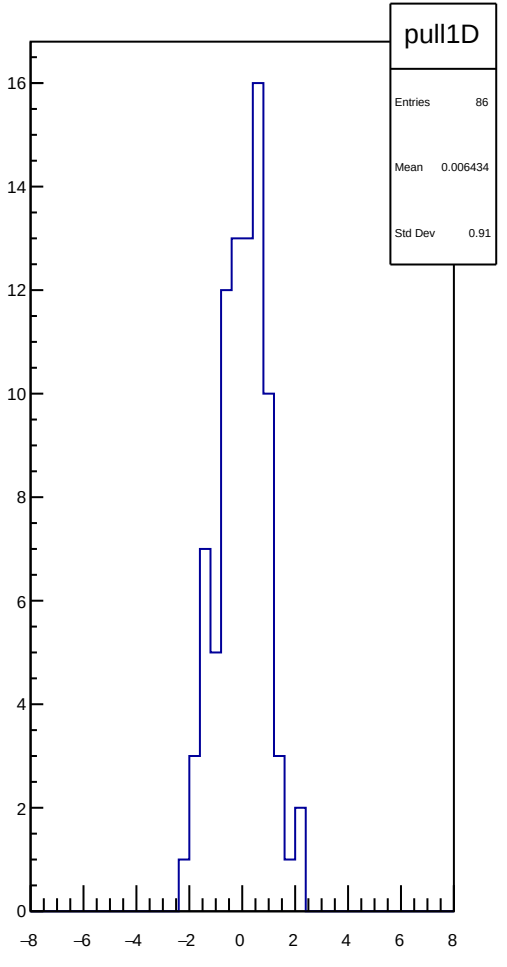

pull1D
Entries 86
Mean 0.01042
Std Dev 0.857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

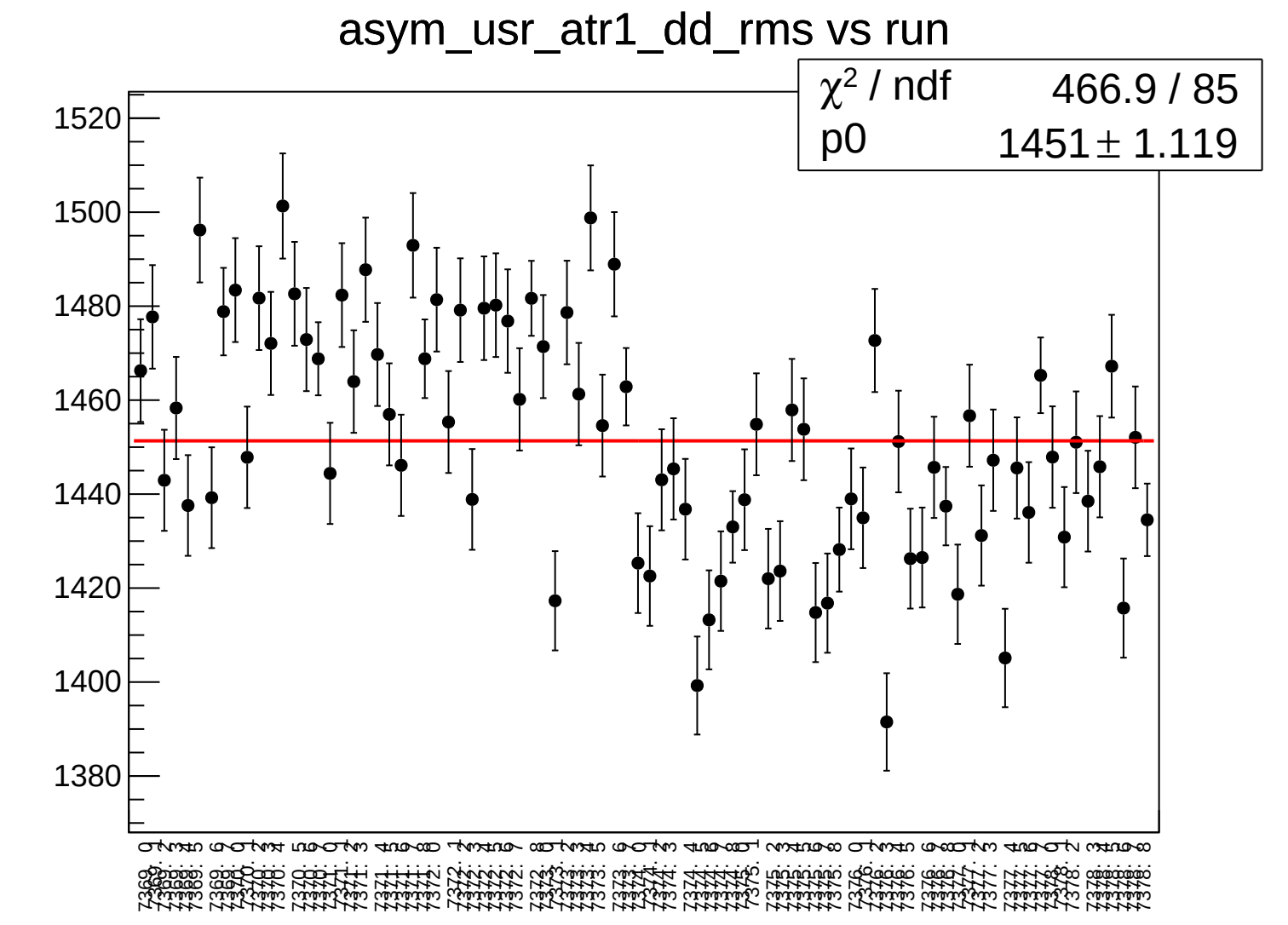

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 128.2 / 85
p0 1335 ± 1.029
1380
1360
1340
1320
1300

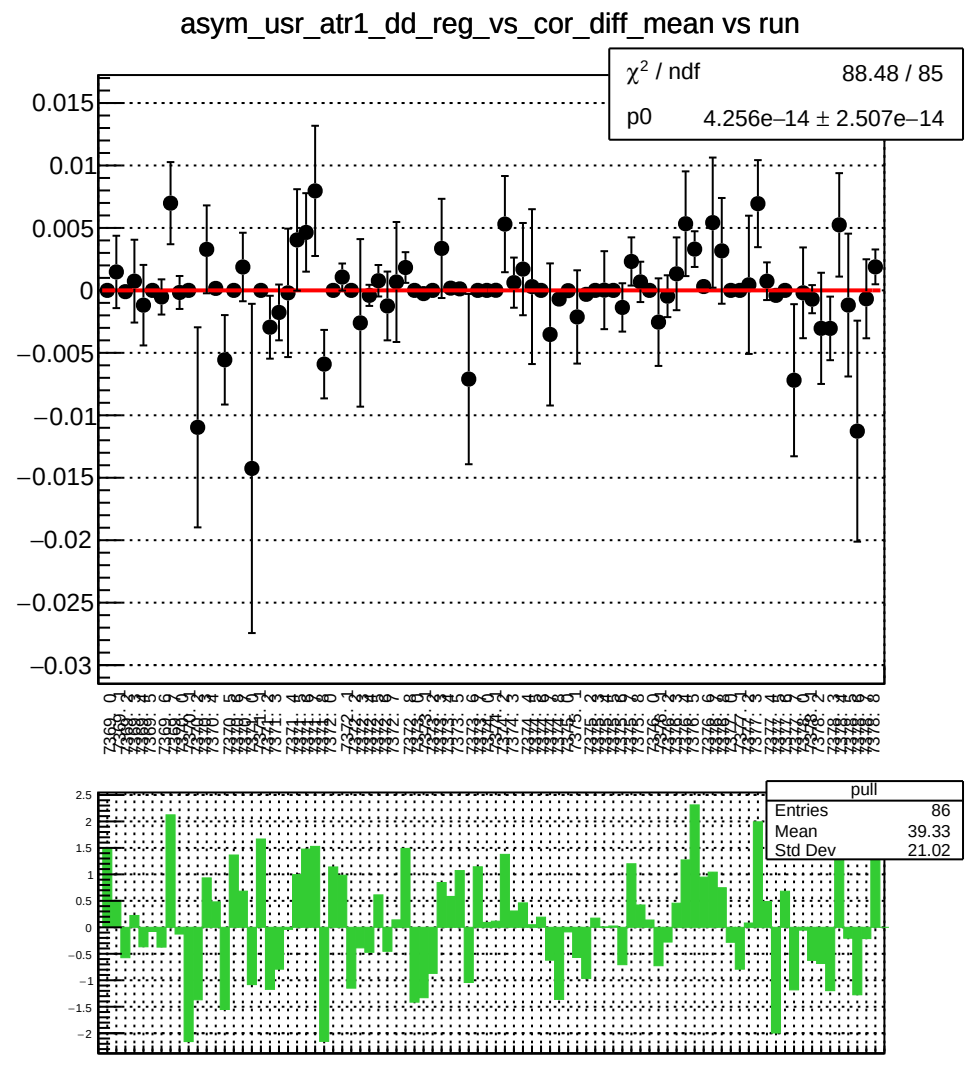

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.8 / 85
p0 −640.9 ± 657.5
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −38.83
Std Dev 0
pull1D
Entries 86
Mean 0.005065
Std Dev 1.093

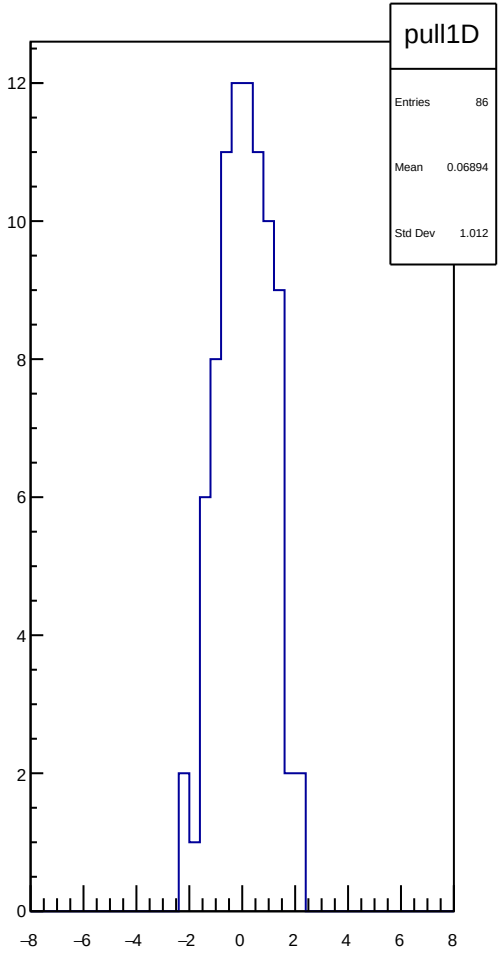

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.041e+04 / 85
p0 601.5 ± 0.4649
700
650
600
550
500

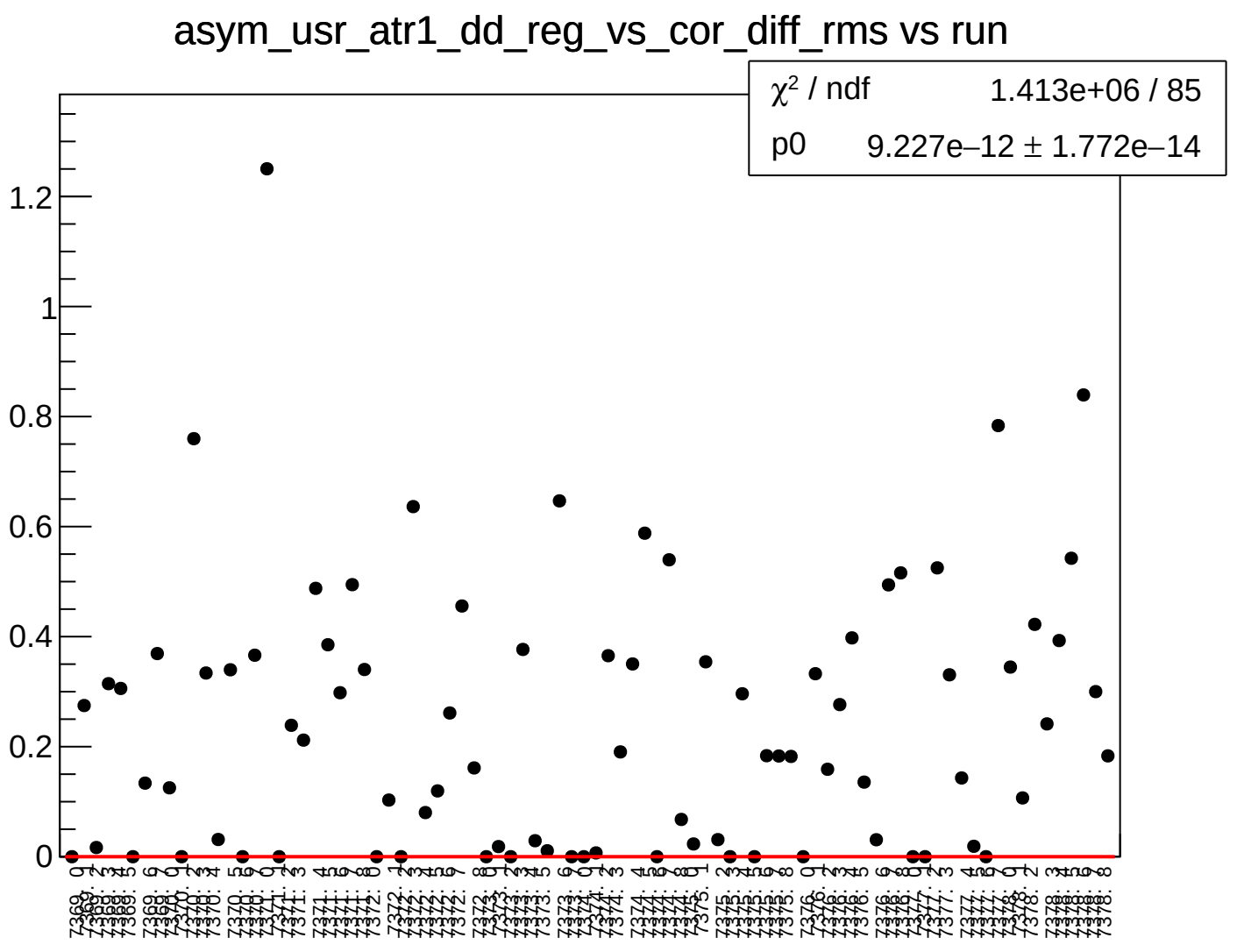

asym_usr_atr1_dd_mean vs run
χ² / ndf 71.22 / 85
p0 2829 ± 1582
pull
Entries 86
Mean 320
Std Dev 0

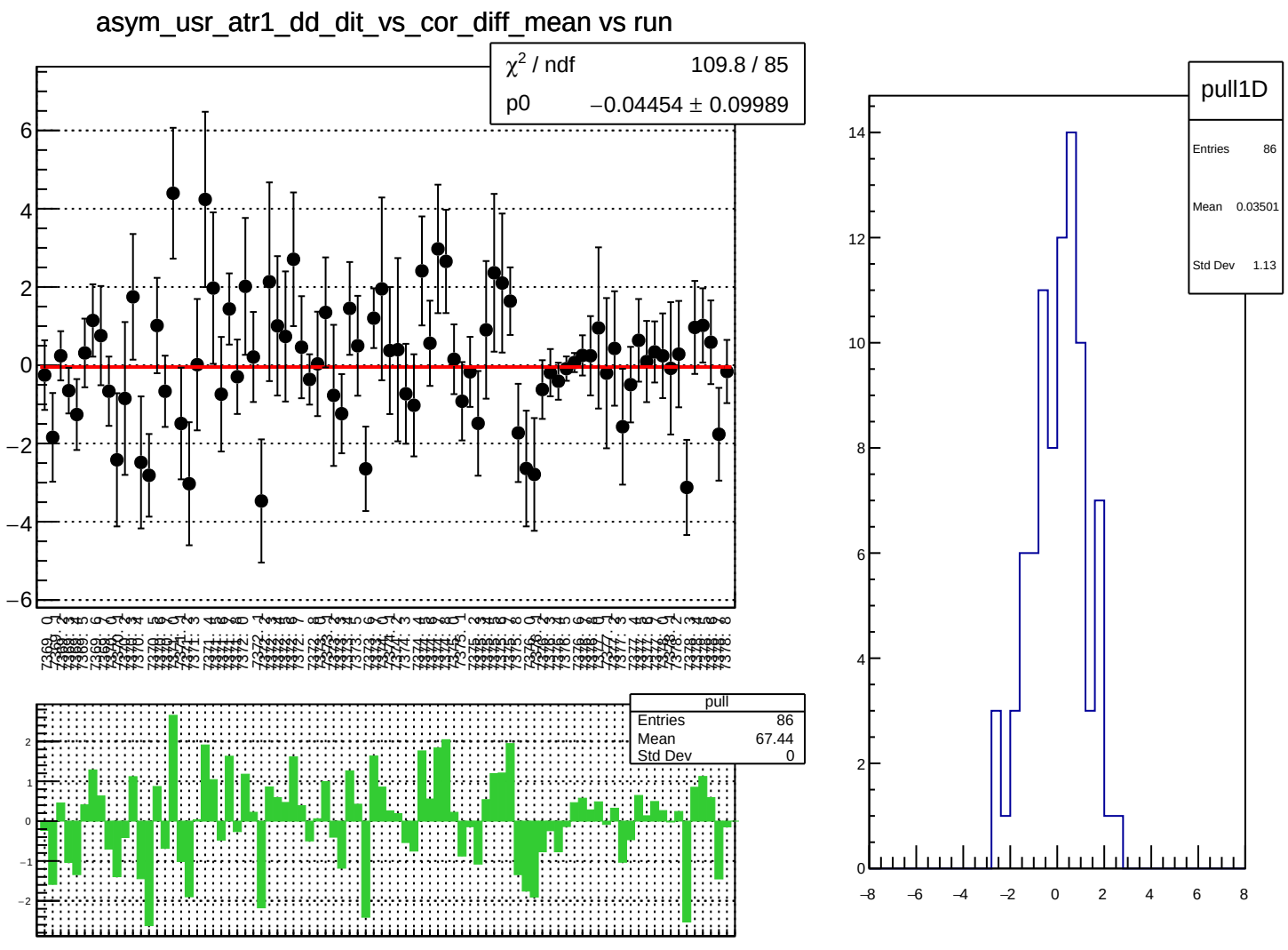

pull1D
Entries 86
Mean 0.006434
Std Dev 0.91

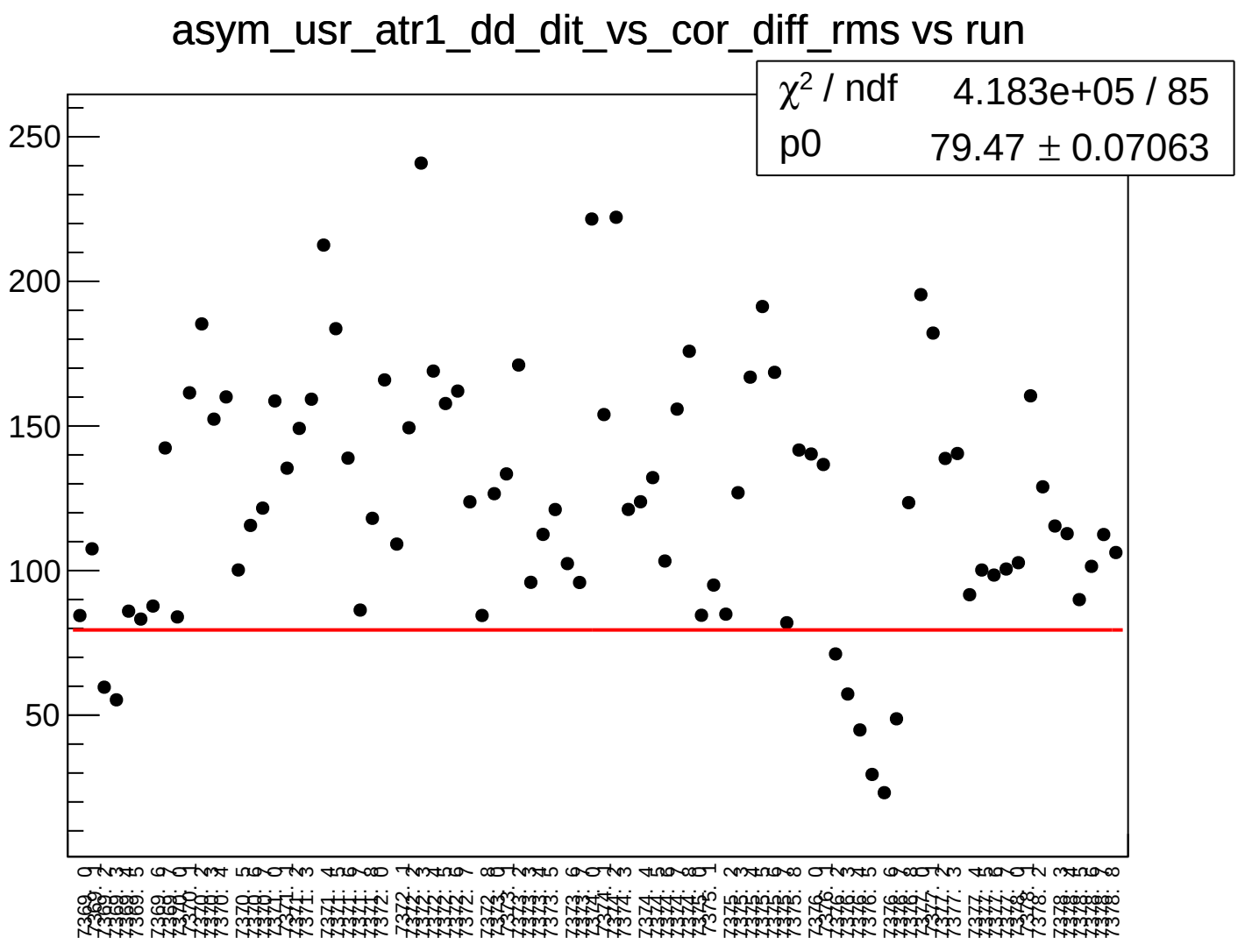

asym_usr_atr1_dd_rms vs run
χ^2 / ndf 466.9 / 85
p0 1451 ± 1.119
1520
1500
1480
1460
1440
1420
1400
1380

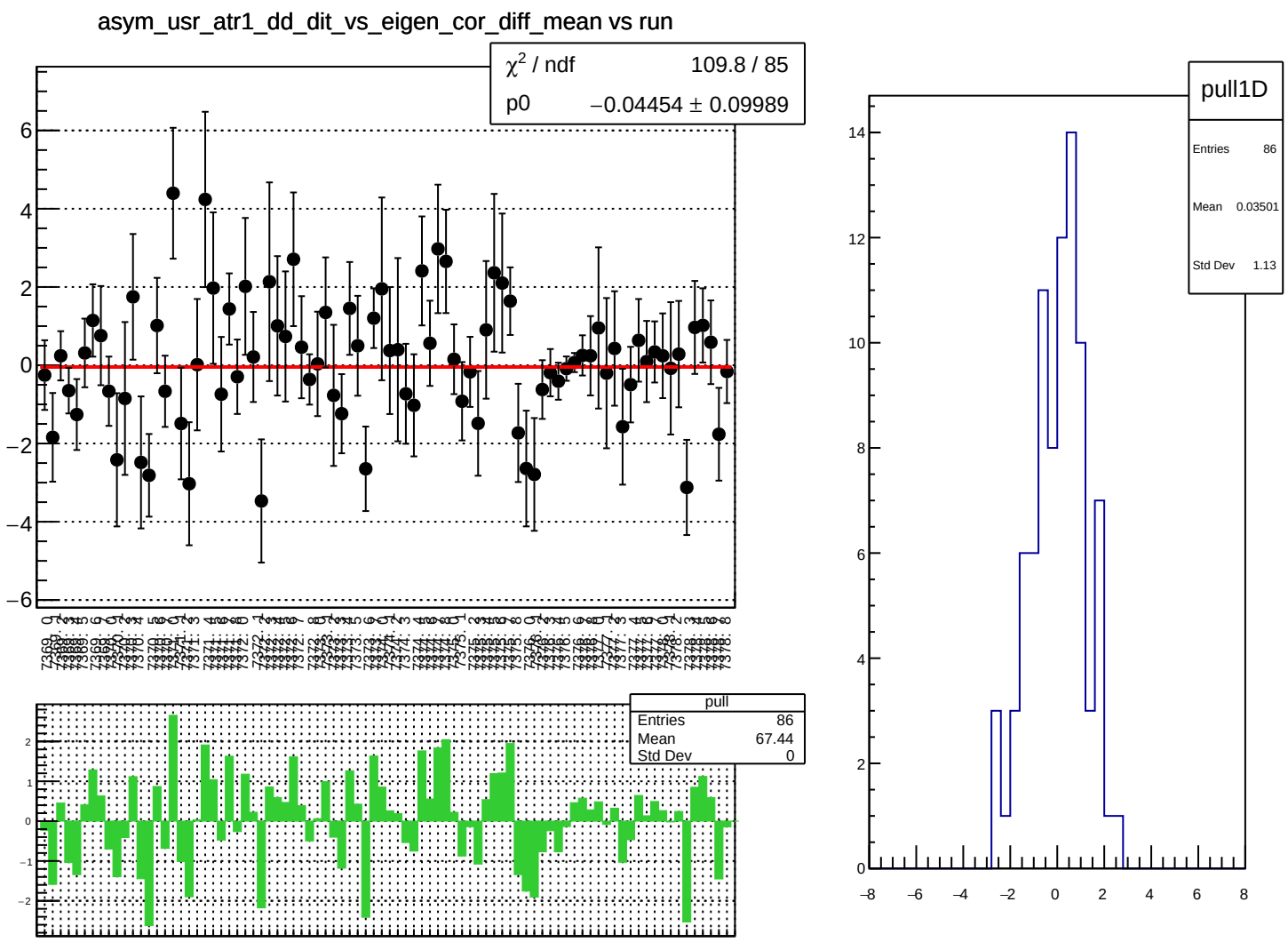

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.48 / 85
p0 4.256e−14 ± 2.507e−14
pull
Entries 86
Mean 39.33
Std Dev 21.02

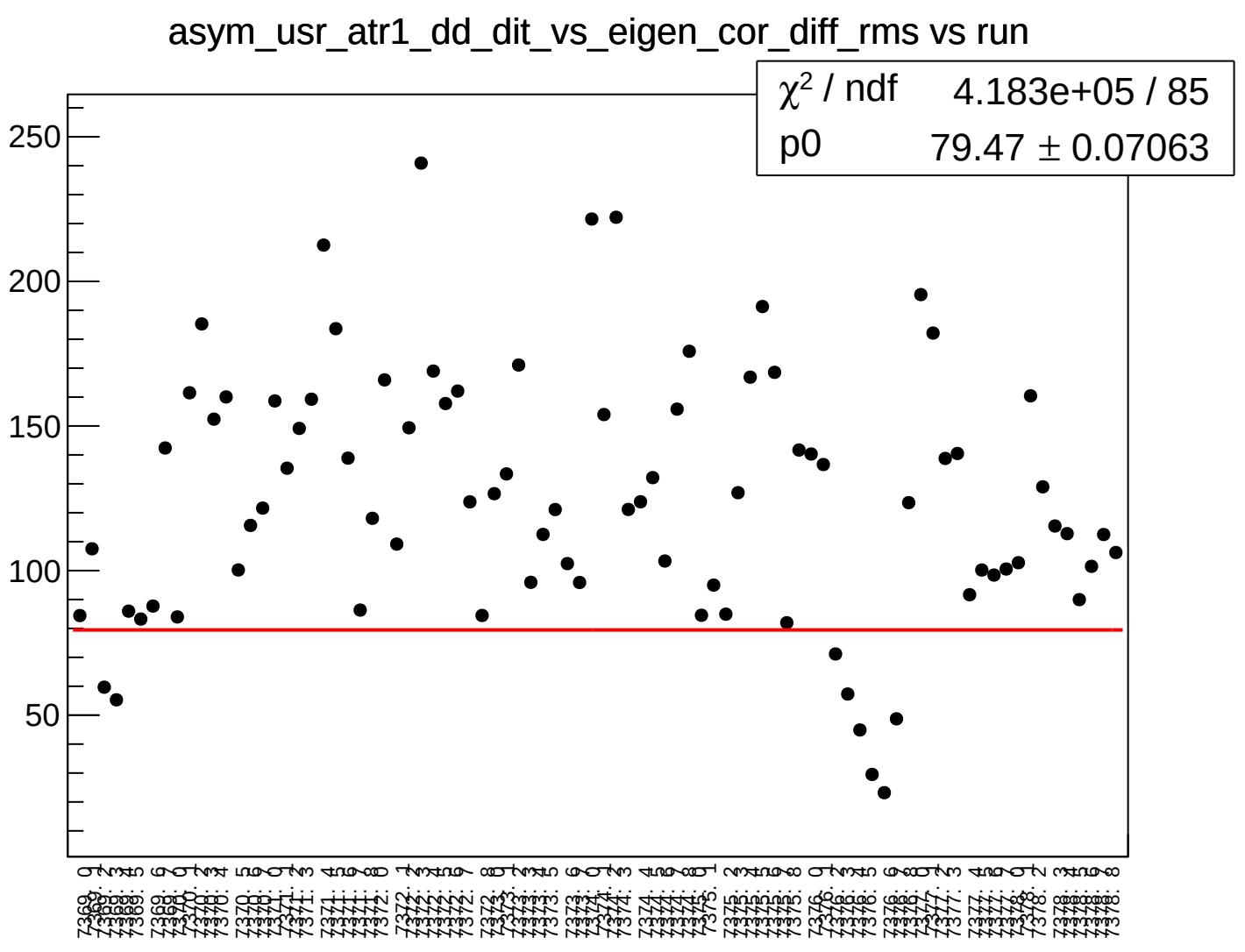

pull1D
Entries 86
Mean 0.06894
Std Dev 1.012

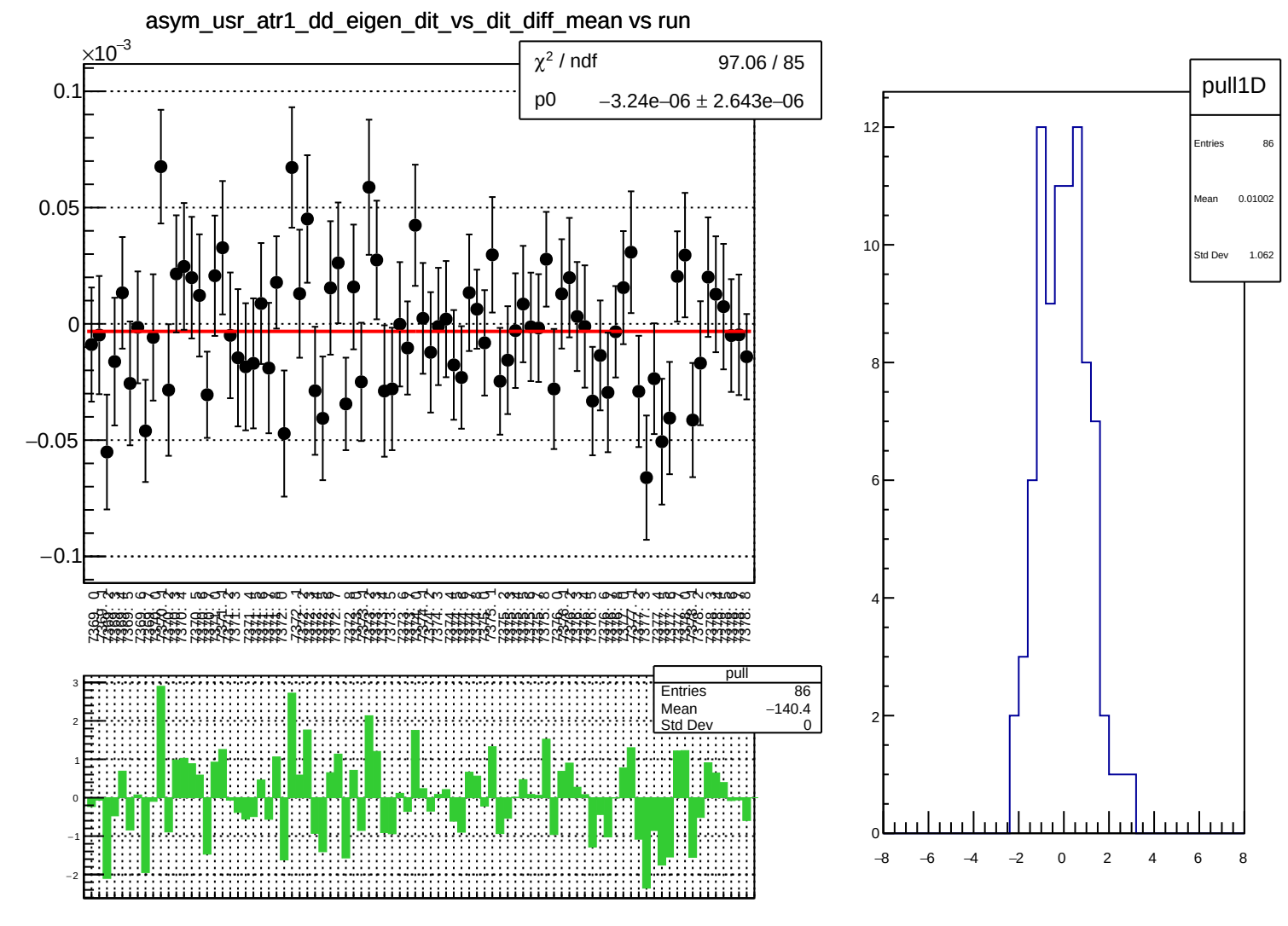

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.413e+06 / 85
p0 9.227e−12 ± 1.772e−14
1.2
1
0.8
0.6
0.4
0.2
0

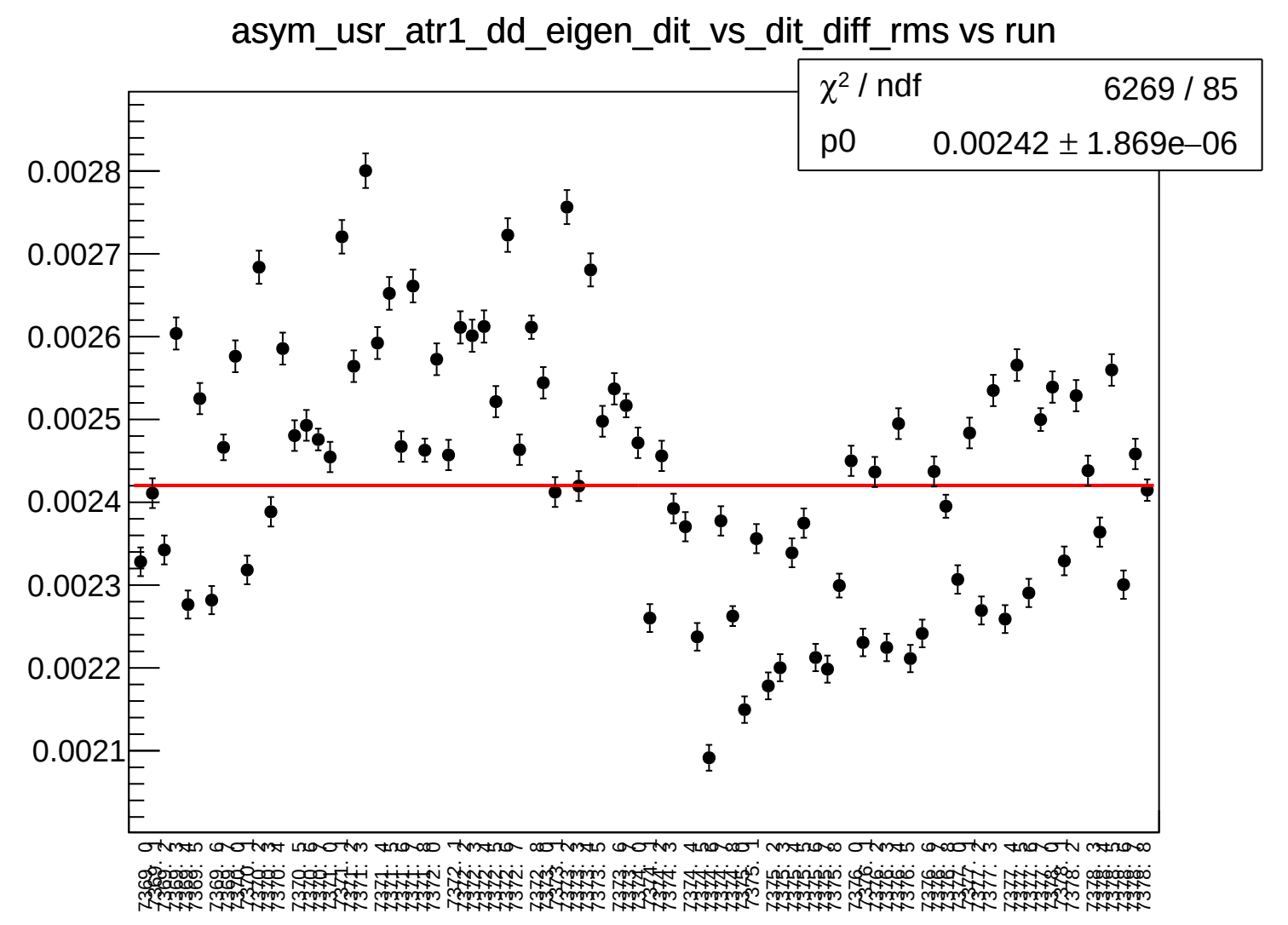

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 85
p0 −0.04454 ± 0.09989
pull
Entries 86
Mean 67.44
Std Dev 0
pull1D
Entries 86
Mean 0.03501
Std Dev 1.13

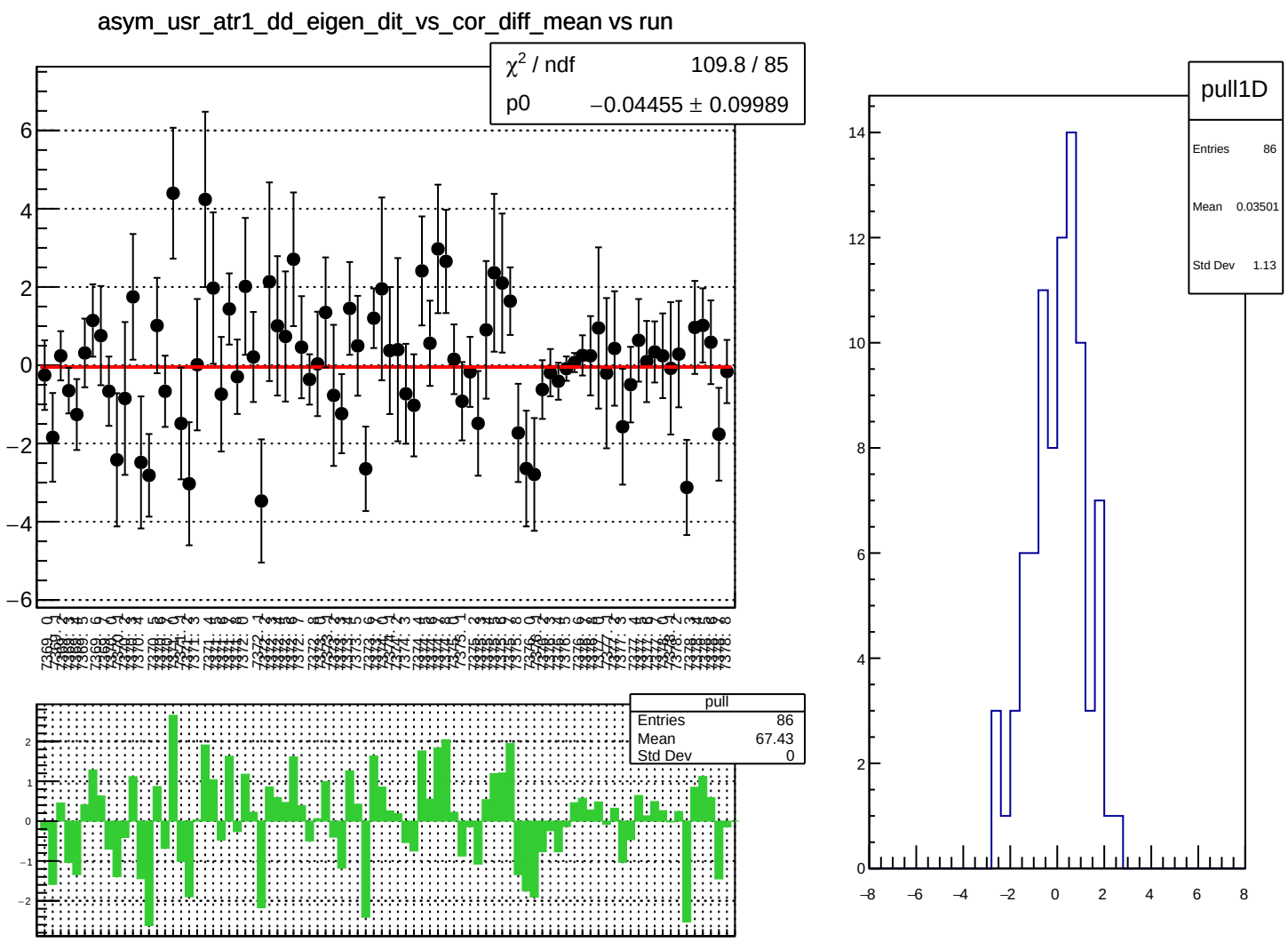

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.183e+05 / 85
p0 79.47 ± 0.07063
250
200
150
100
50

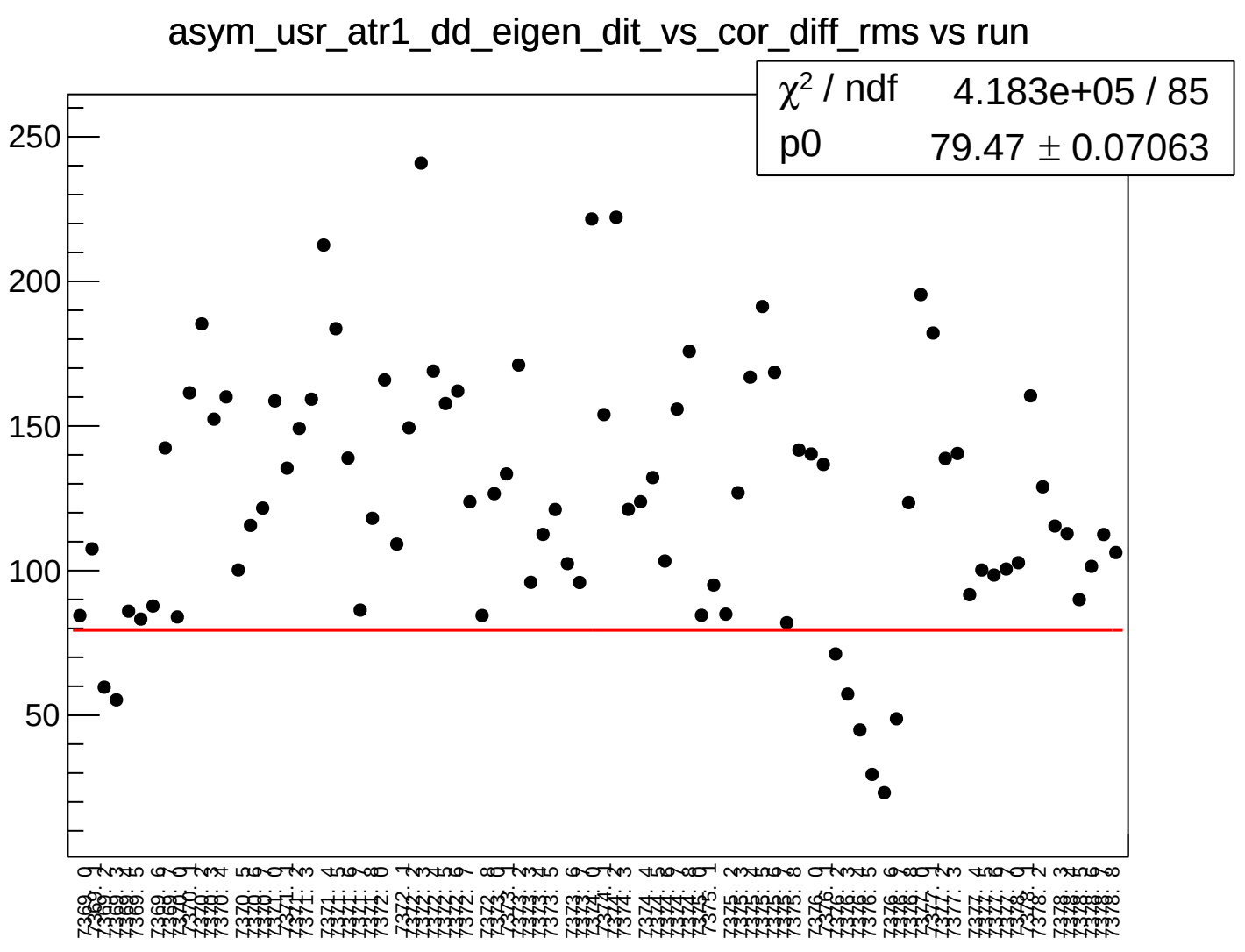

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 85
p0 −0.04454 ± 0.09989
pull
Entries 86
Mean 67.44
Std Dev 0
pull1D
Entries 86
Mean 0.03501
Std Dev 1.13

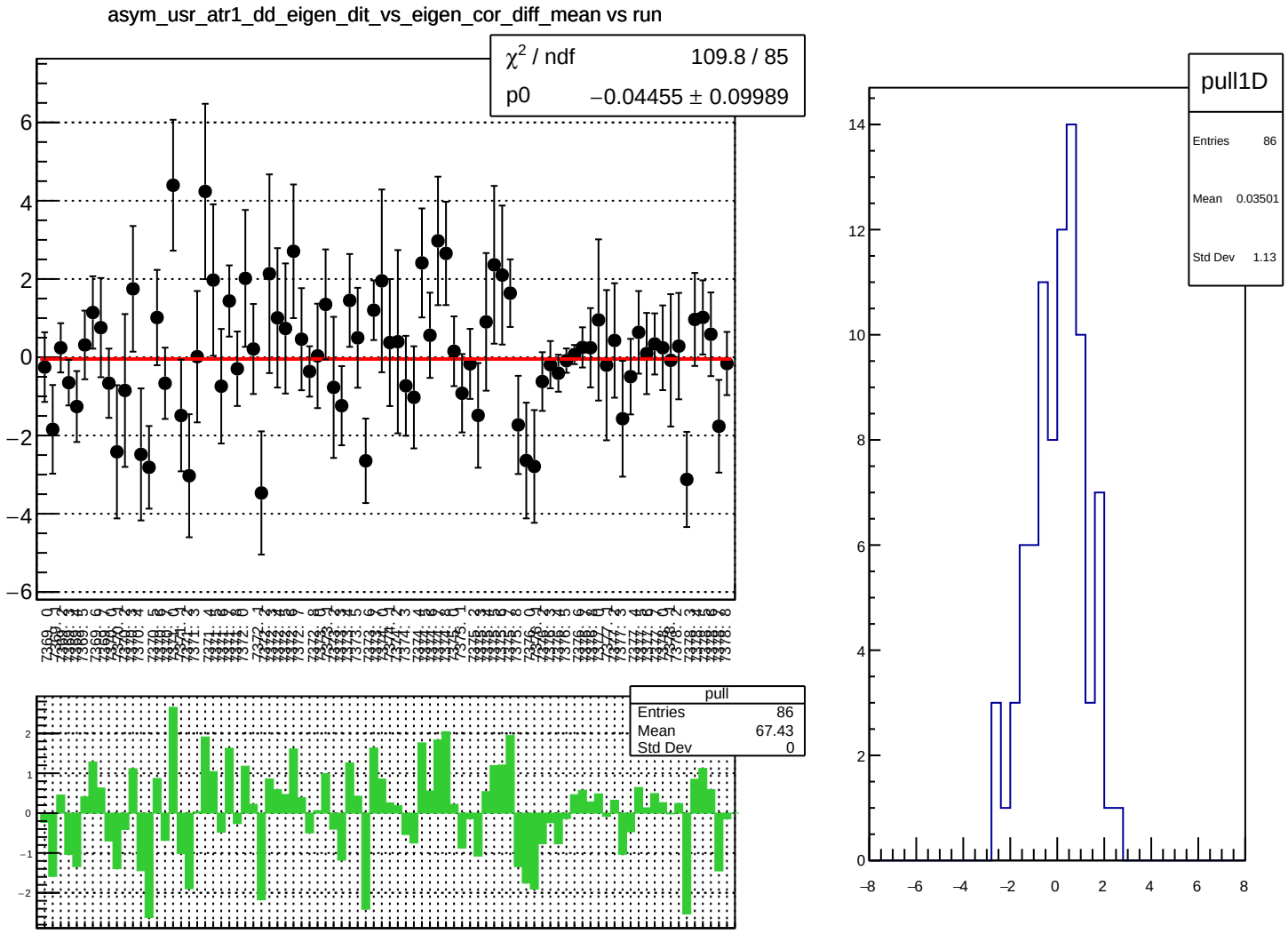

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.183e+05 / 85
p0 79.47 ± 0.07063
250
200
150
100
50

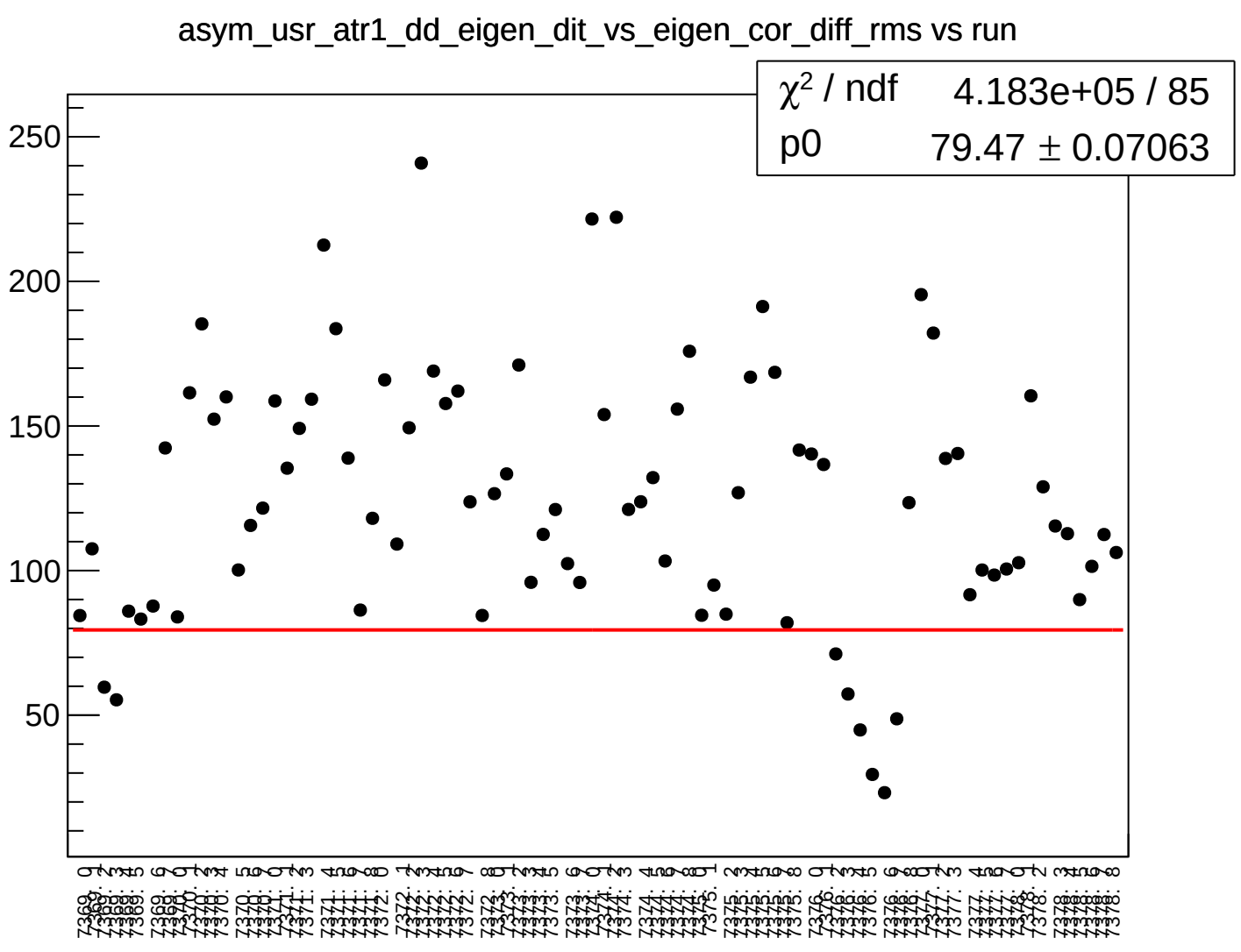

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.06 / 85
p0 −3.24e−06 ± 2.643e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −140.4
Std Dev 0
pull1D
Entries 86
Mean 0.01002
Std Dev 1.062

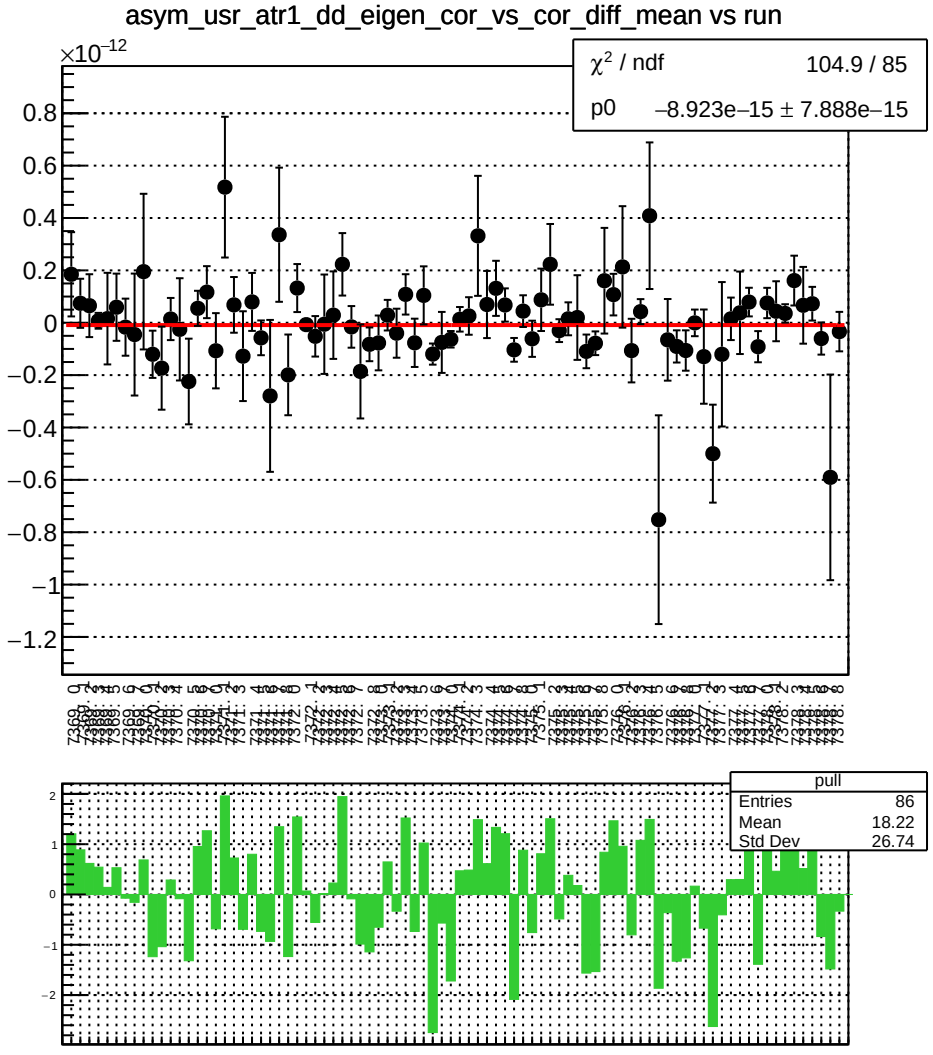

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6269 / 85
p0 0.00242 ± 1.869e–06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

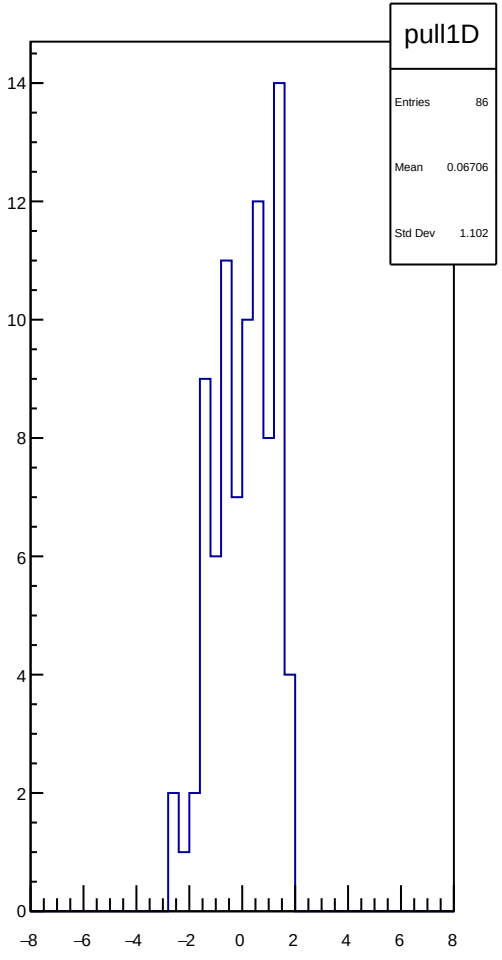

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 85
p0 −0.04455 ± 0.09989
pull
Entries 86
Mean 67.43
Std Dev 0
pull1D
Entries 86
Mean 0.03501
Std Dev 1.13

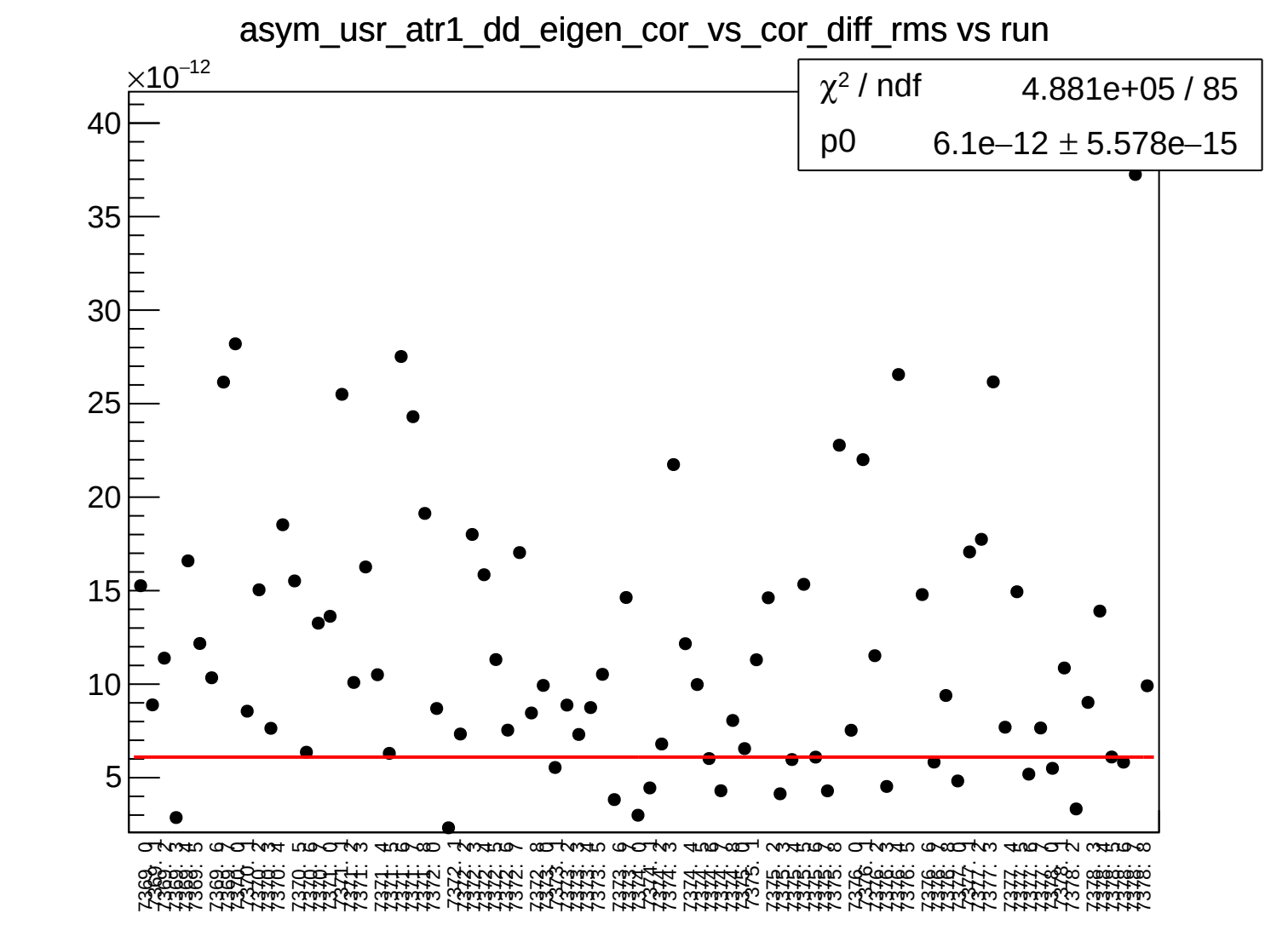

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.183e+05 / 85
p0 79.47 ± 0.07063
250
200
150
100
50

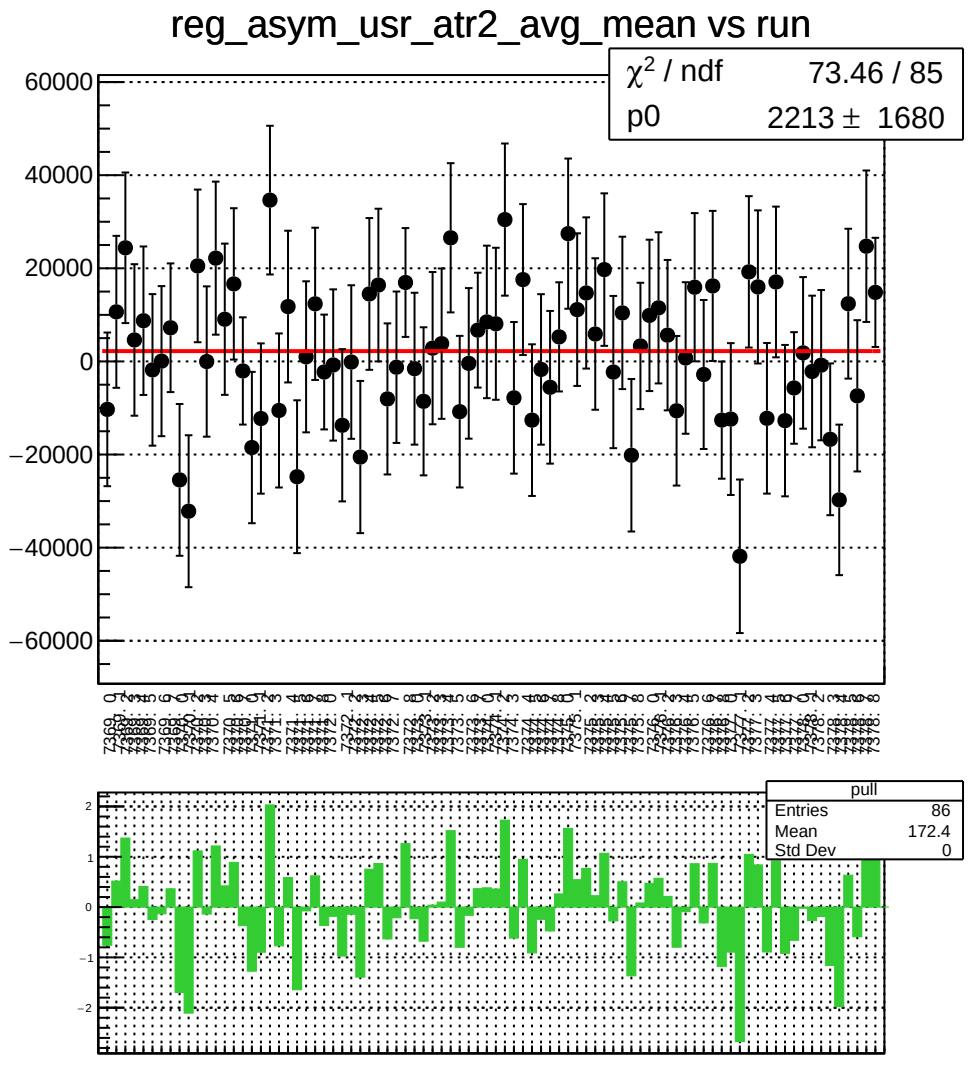

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 85
p0 −0.04455 ± 0.09989
pull
Entries 86
Mean 67.43
Std Dev 0
pull1D
Entries 86
Mean 0.03501
Std Dev 1.13

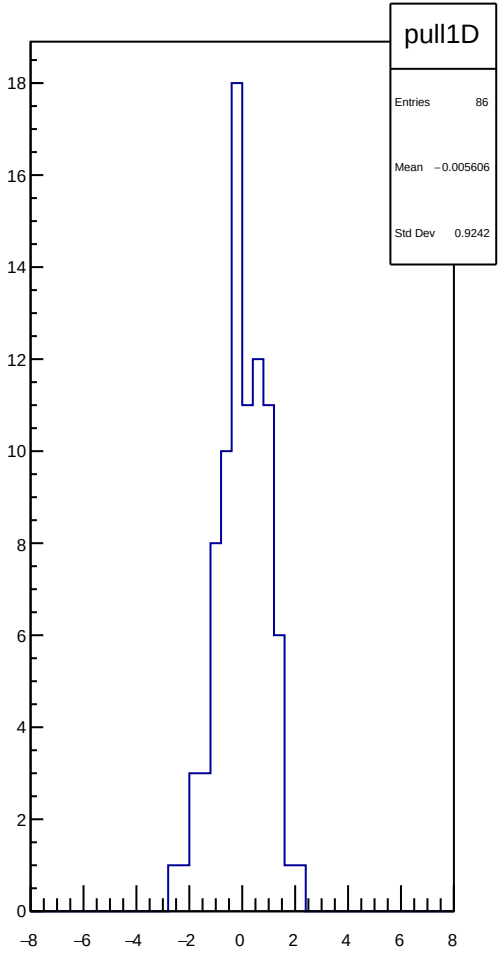

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.183e+05 / 85
p0 79.47 ± 0.07063
250
200
150
100
50

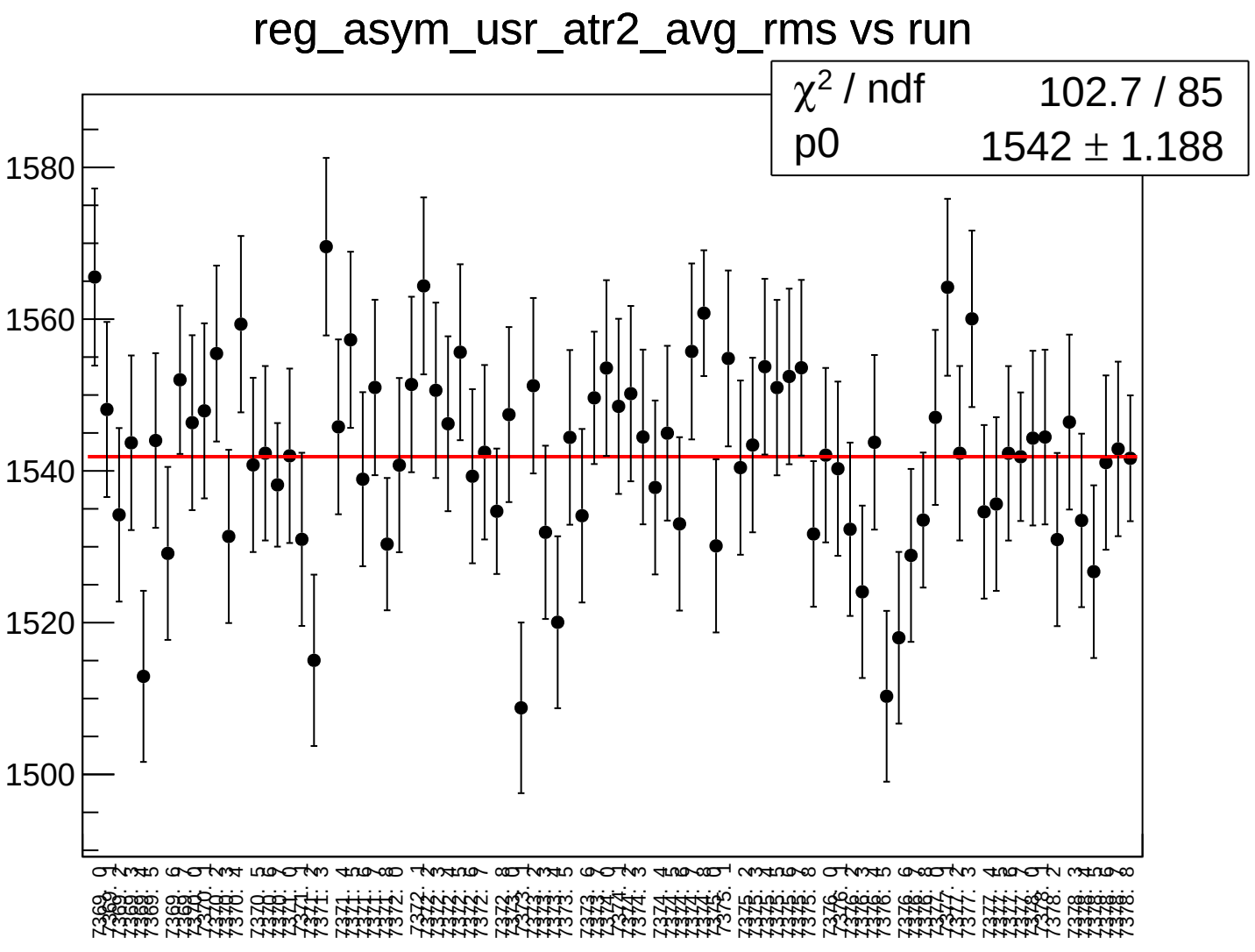

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.9 / 85
p0 −8.923e−15 ± 7.888e−15
pull
Entries 86
Mean 18.22
Std Dev 26.74

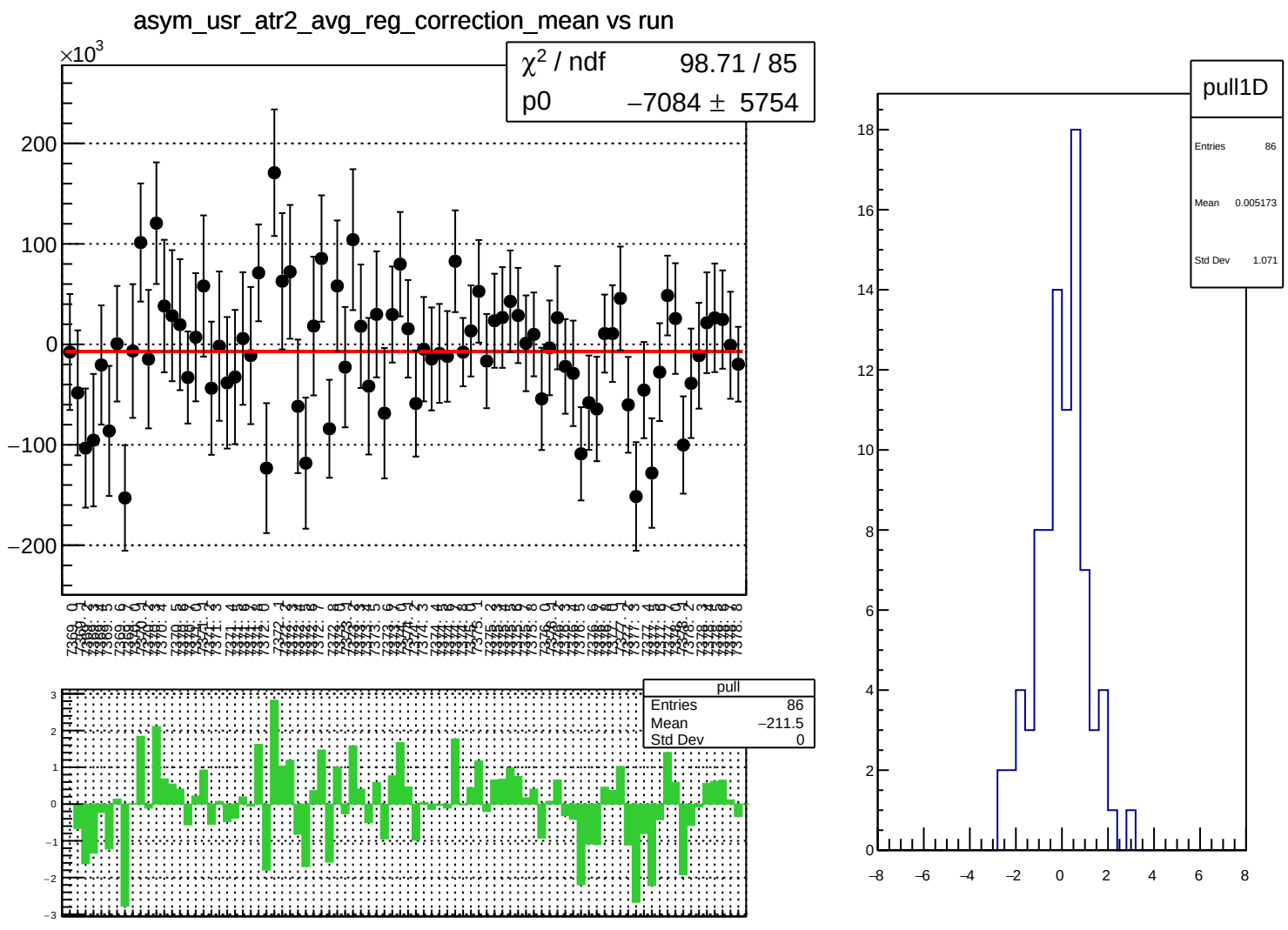

pull1D
Entries 86
Mean 0.06706
Std Dev 1.102

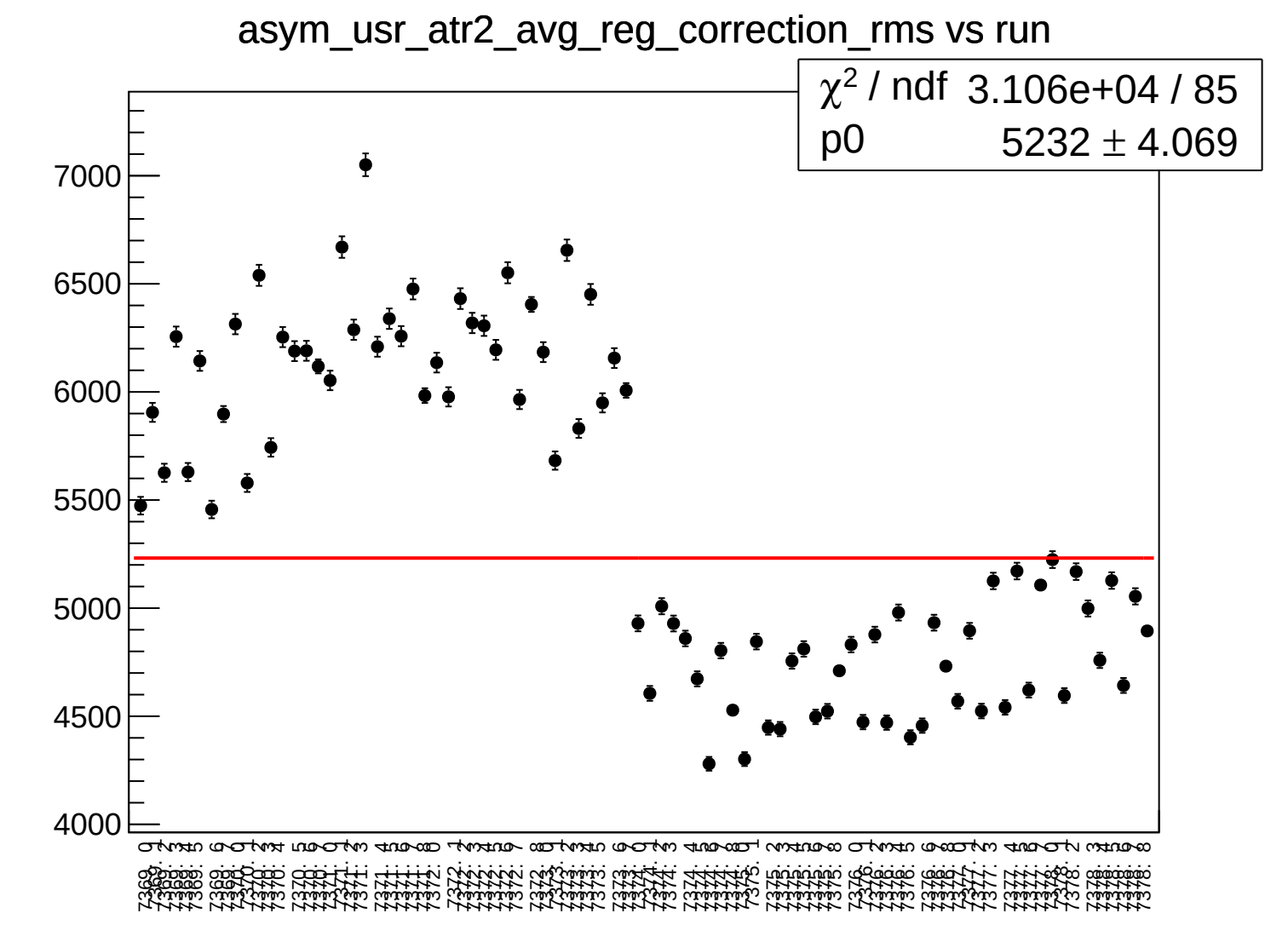

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.881e+05 / 85
p0 6.1e−12 ± 5.578e−15
40
35
30
25
20
15
10
5

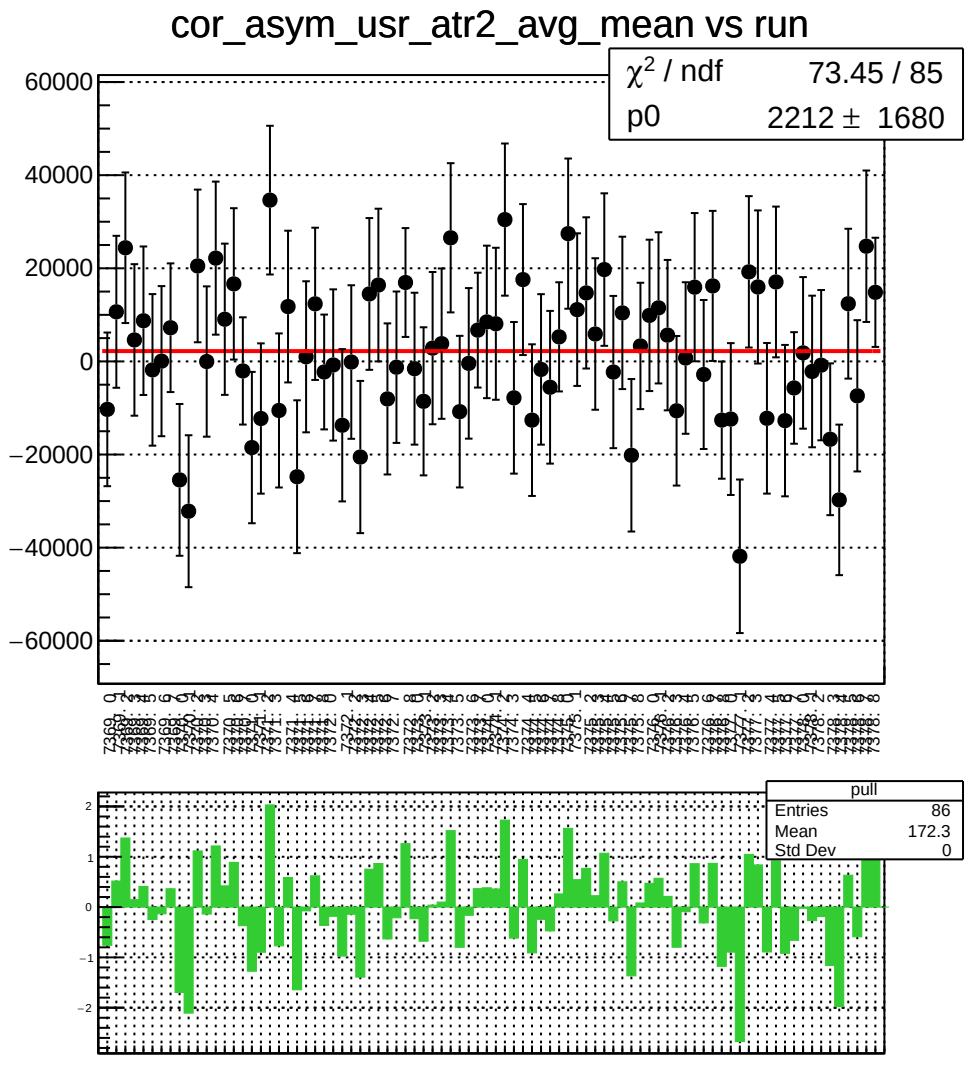

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 73.46 / 85
p0 2213 ± 1680
pull
Entries 86
Mean 172.4
Std Dev 0

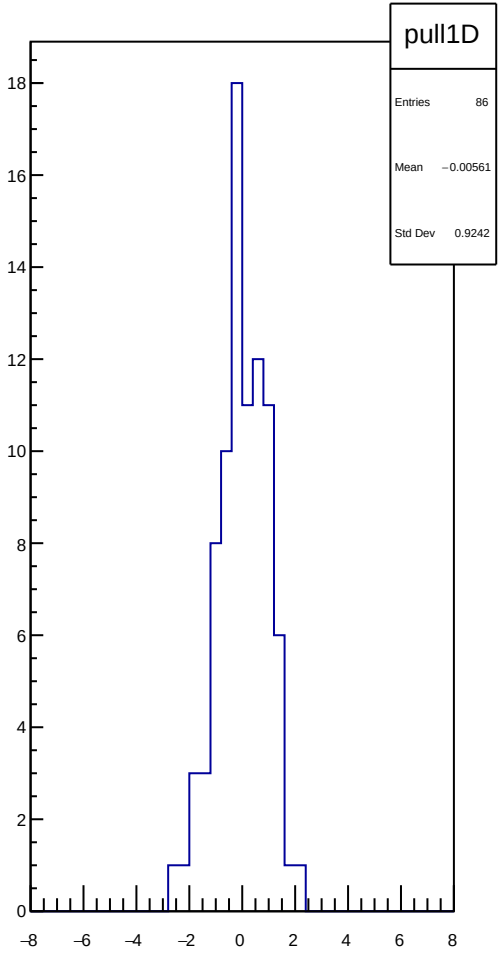

pull1D
Entries 86
Mean −0.005606
Std Dev 0.9242

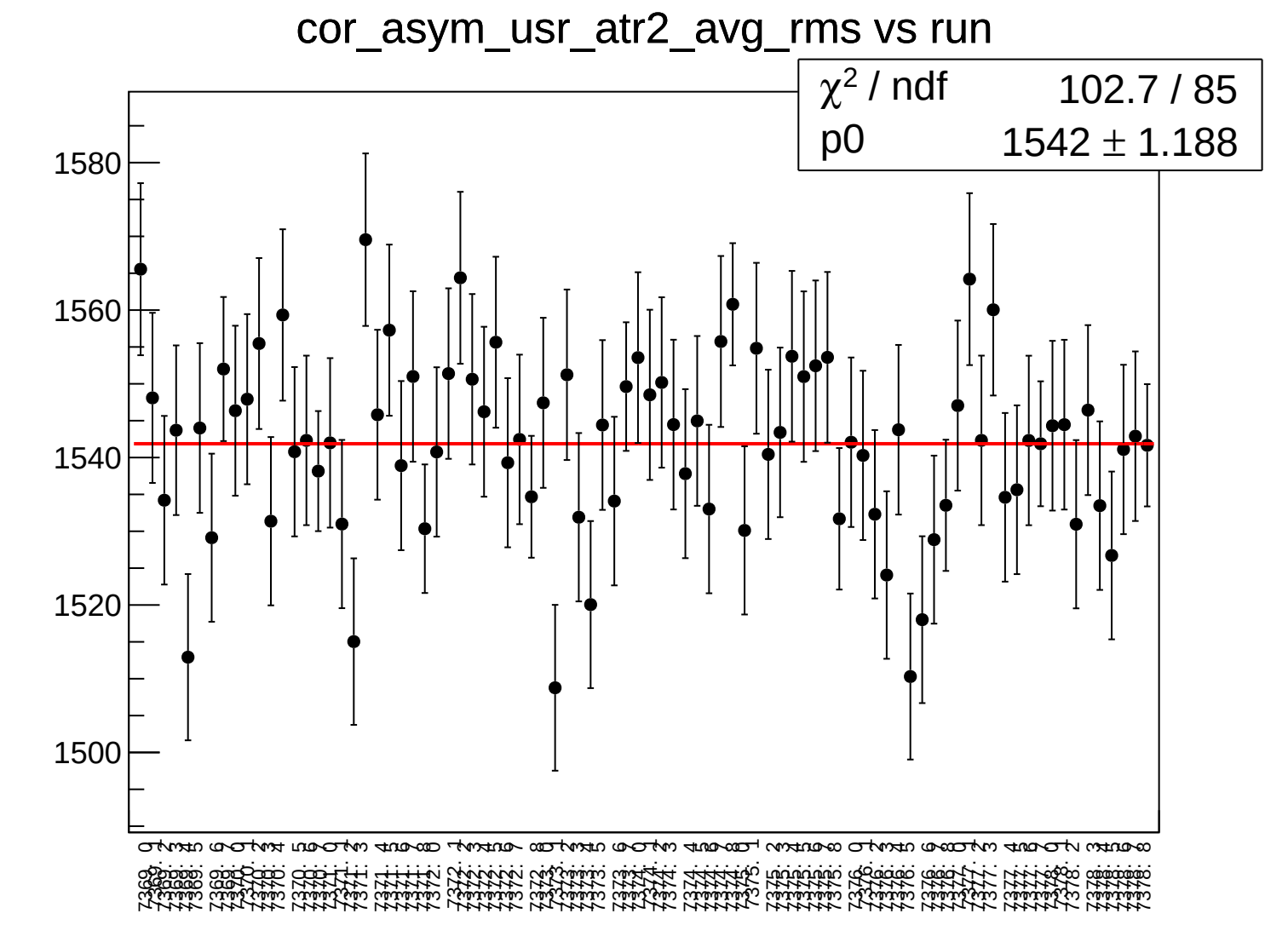

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 102.7 / 85
p0 1542 ± 1.188
1580
1560
1540
1520
1500

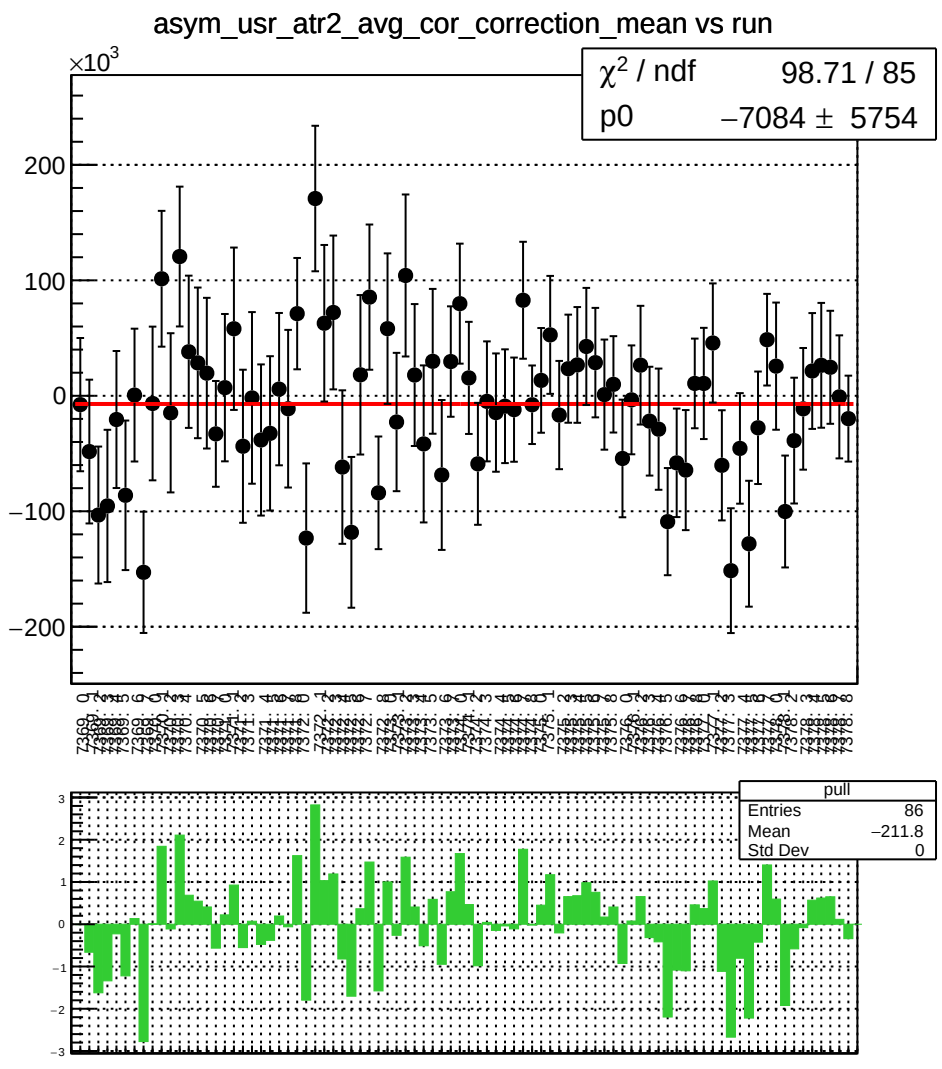

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 98.71 / 85
p0 −7084 ± 5754
200
100
0
−100
−200
pull
Entries 86
Mean −211.5
Std Dev 0
pull1D
Entries 86
Mean 0.005173
Std Dev 1.071

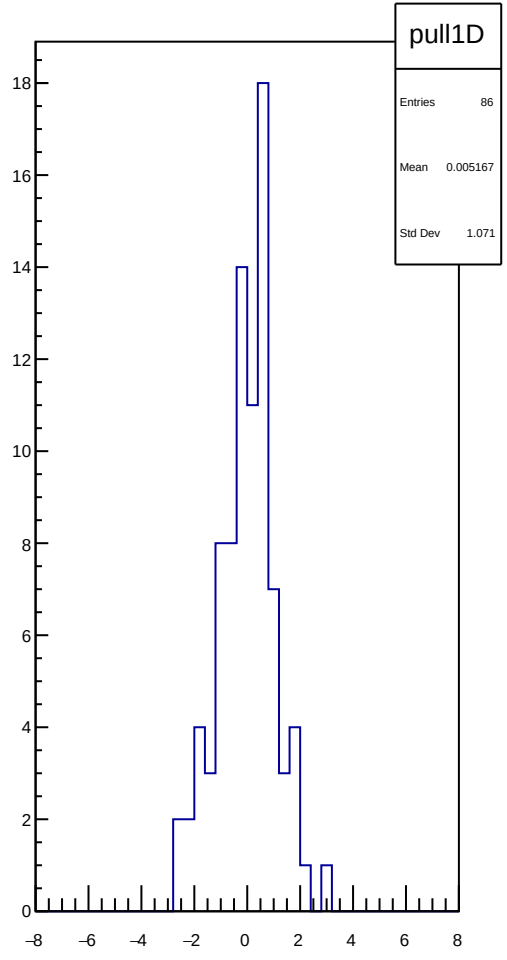

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 3.106e+04 / 85
p0 5232 ± 4.069
7000
6500
6000
5500
5000
4500
4000


cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 73.45 / 85
p0 2212 ± 1680
pull
Entries 86
Mean 172.3
Std Dev 0


pull1D
Entries 86
Mean −0.00561
Std Dev 0.9242


cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 102.7 / 85
p0 1542 ± 1.188
1580
1560
1540
1520
1500


asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 98.71 / 85
p0 −7084 ± 5754
200
100
0
−100
−200
pull
Entries 86
Mean −211.8
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.005167
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
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−4
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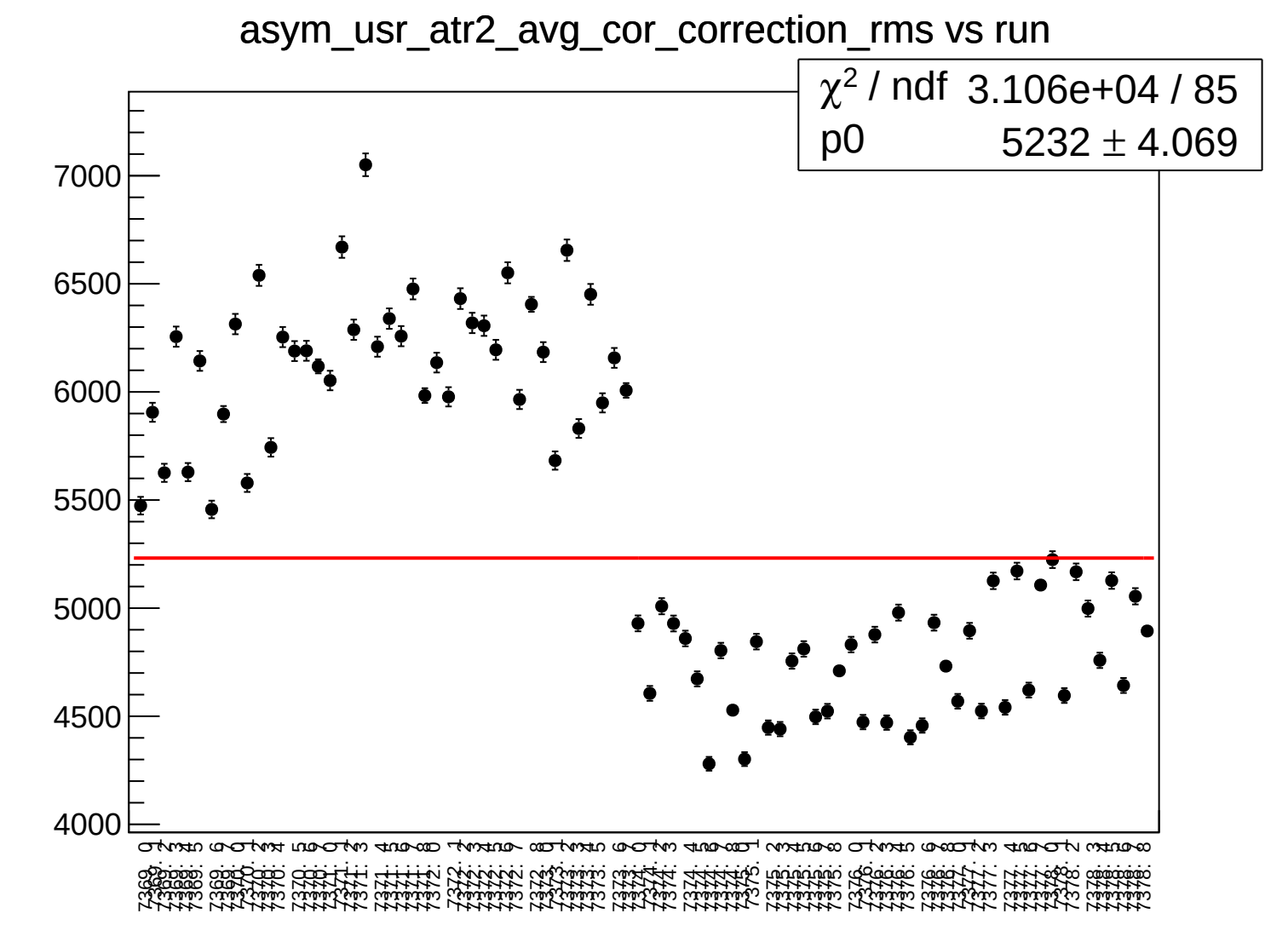
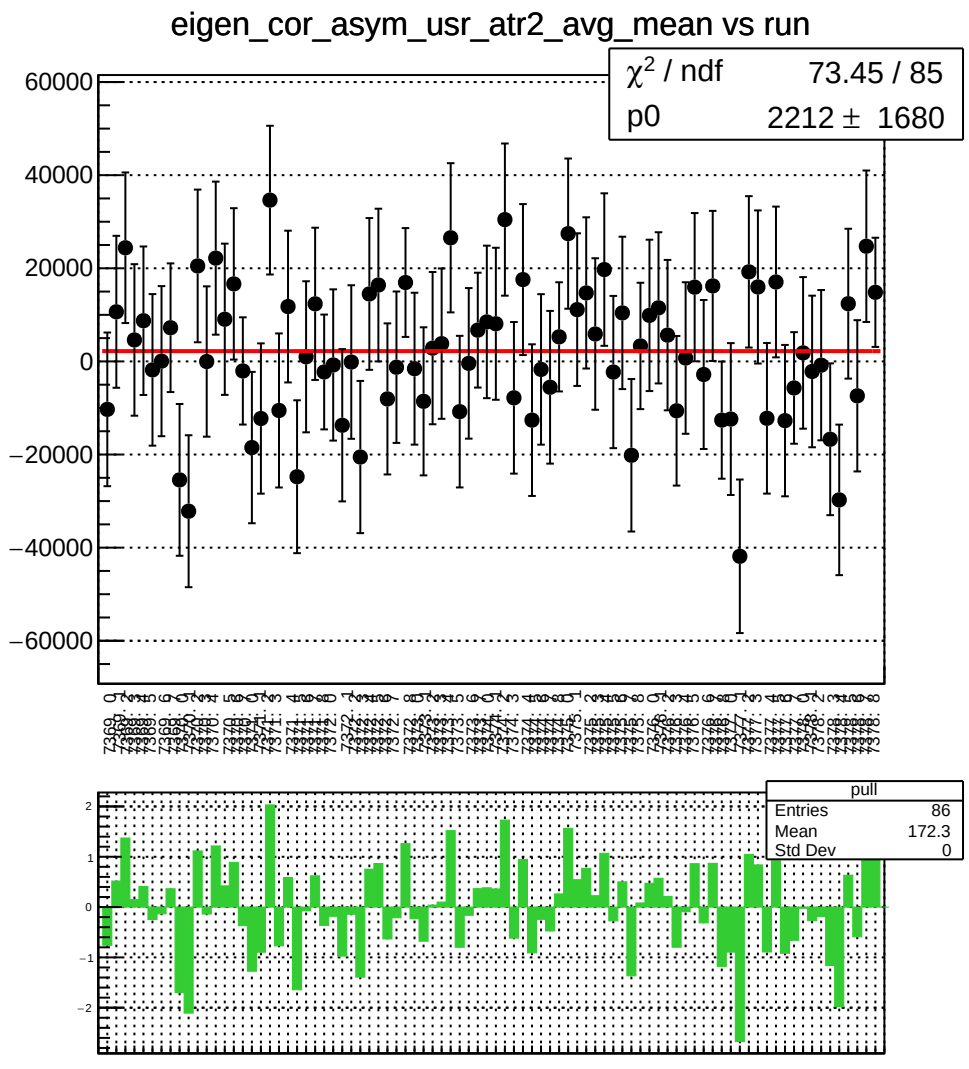
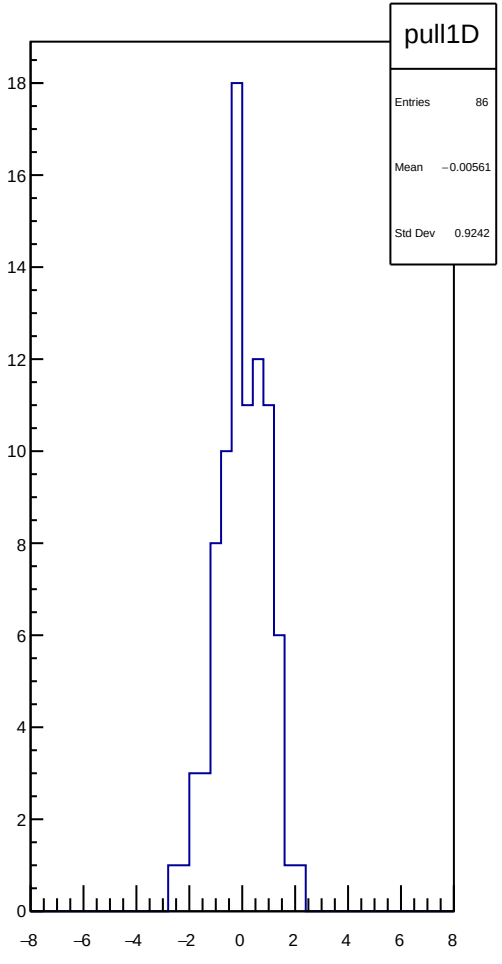
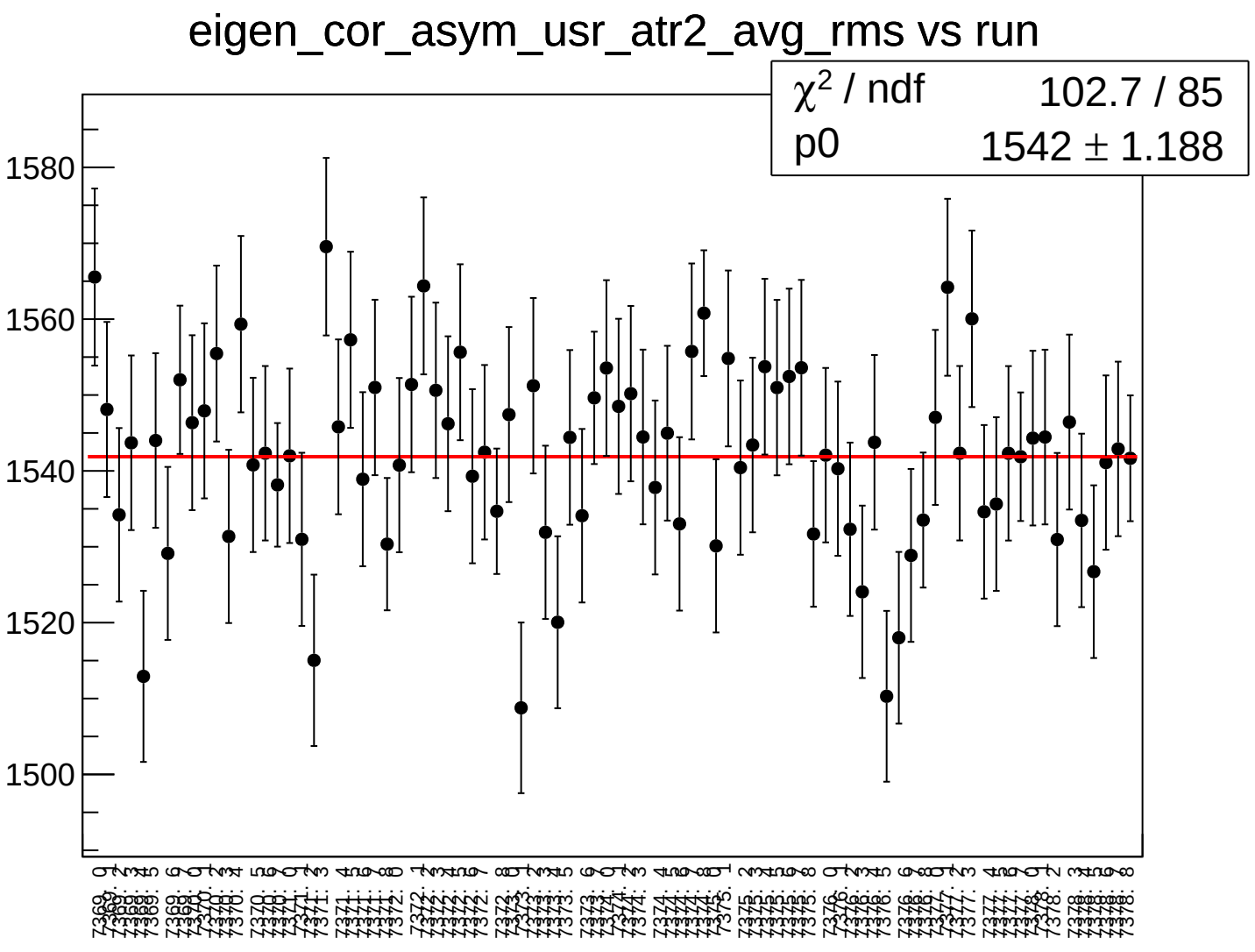
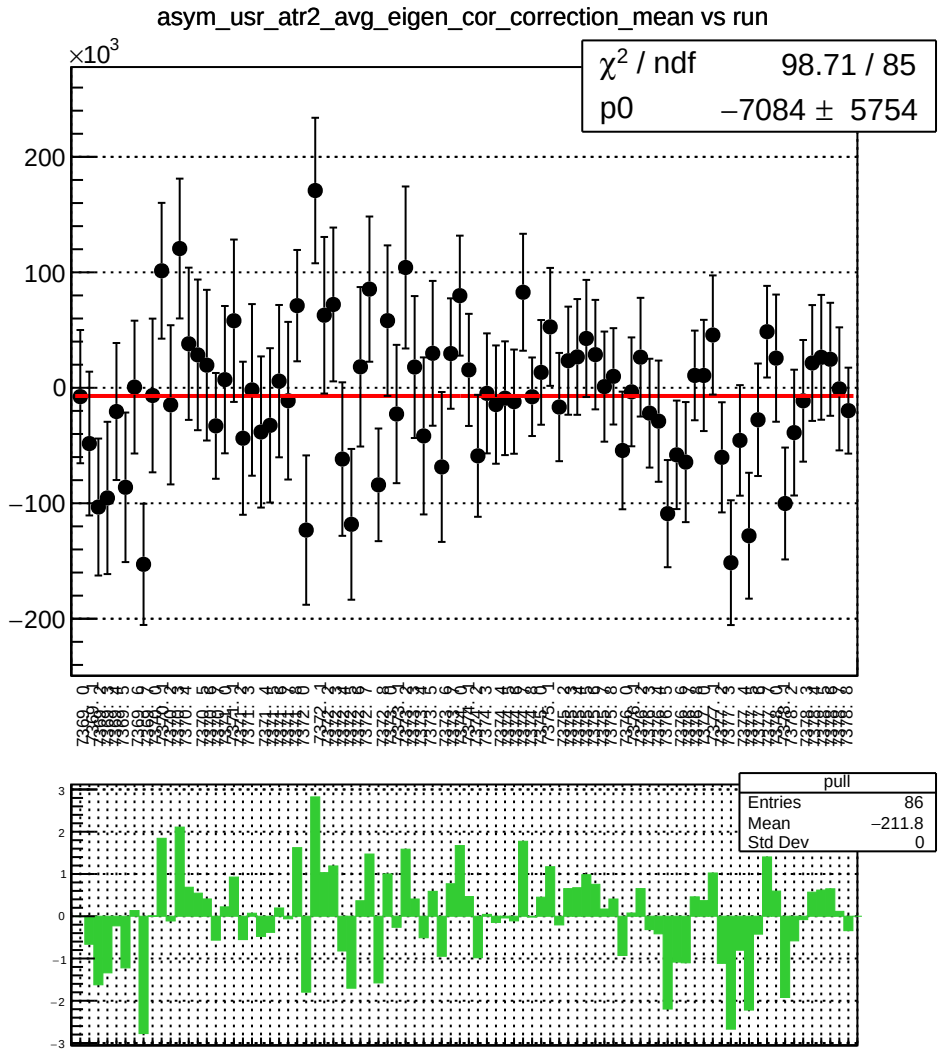
0
2
4
6
8

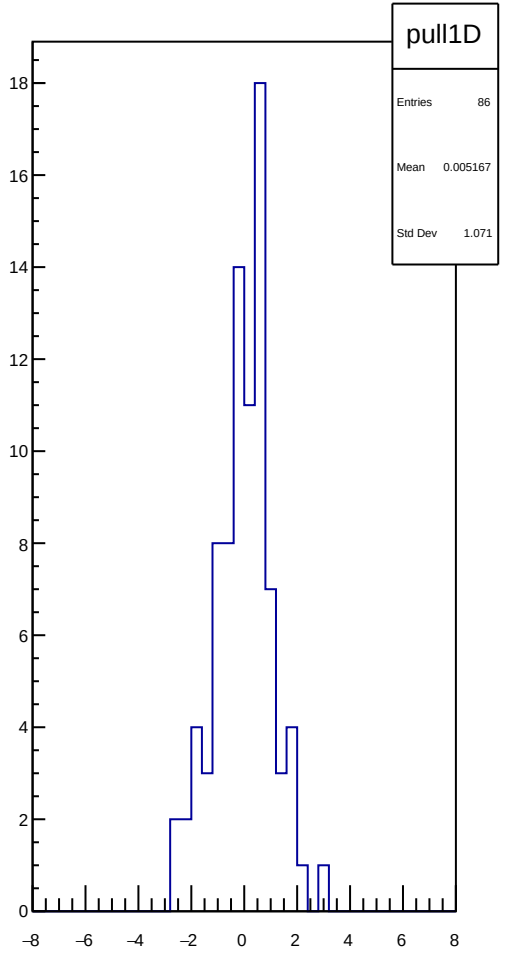

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 3.106e+04 / 85
p0 5232 ± 4.069
7000
6500
6000
5500
5000
4500
4000


eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 73.45 / 85
p0 2212 ± 1680
pull
Entries 86
Mean 172.3
Std Dev 0


pull1D
Entries 86
Mean −0.00561
Std Dev 0.9242


eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 102.7 / 85
p0 1542 ± 1.188
1580
1560
1540
1520
1500


asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.71 / 85
p0 −7084 ± 5754
200
100
0
−100
−200
pull
Entries 86
Mean −211.8
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.005167
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
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−4
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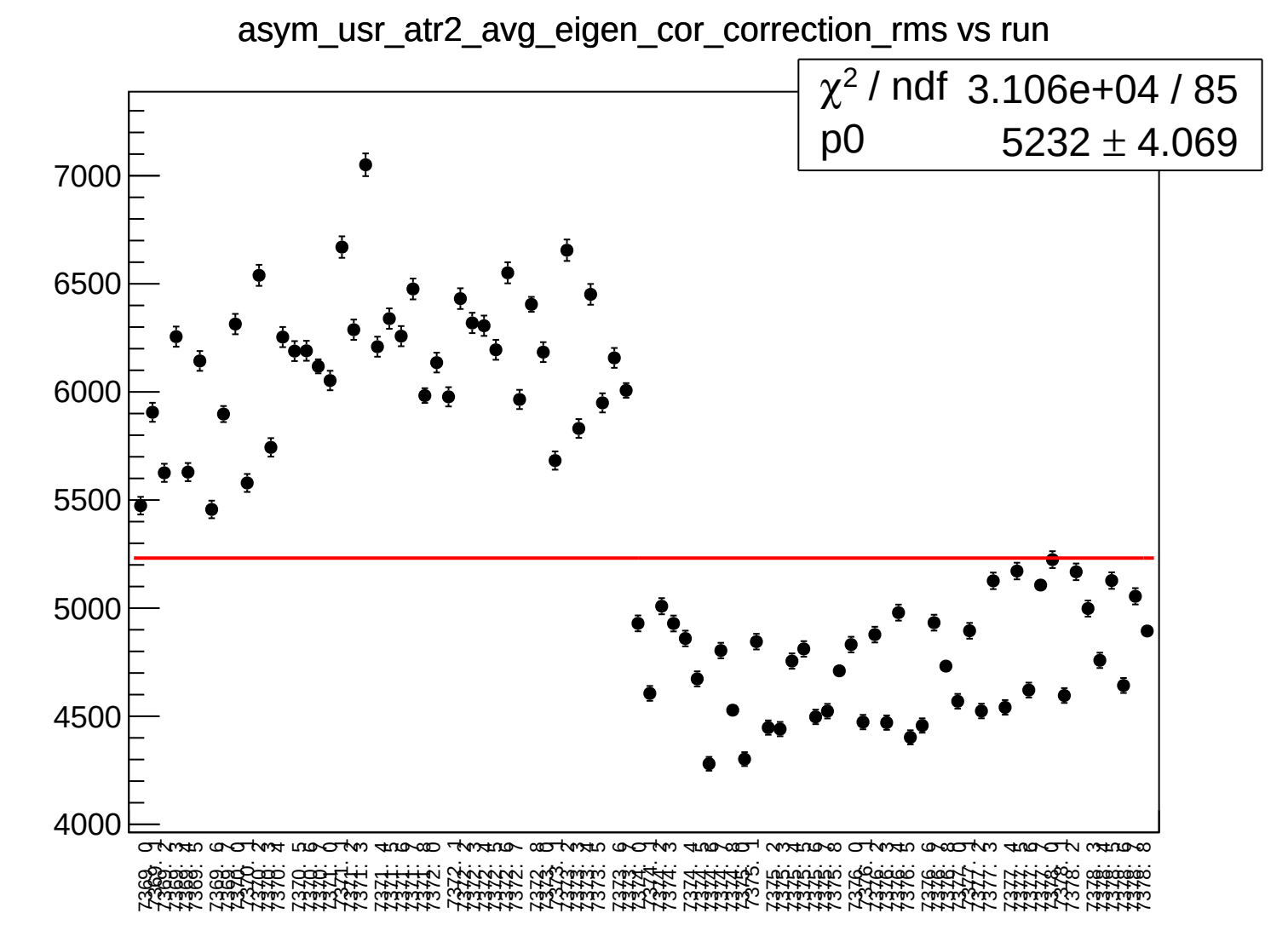
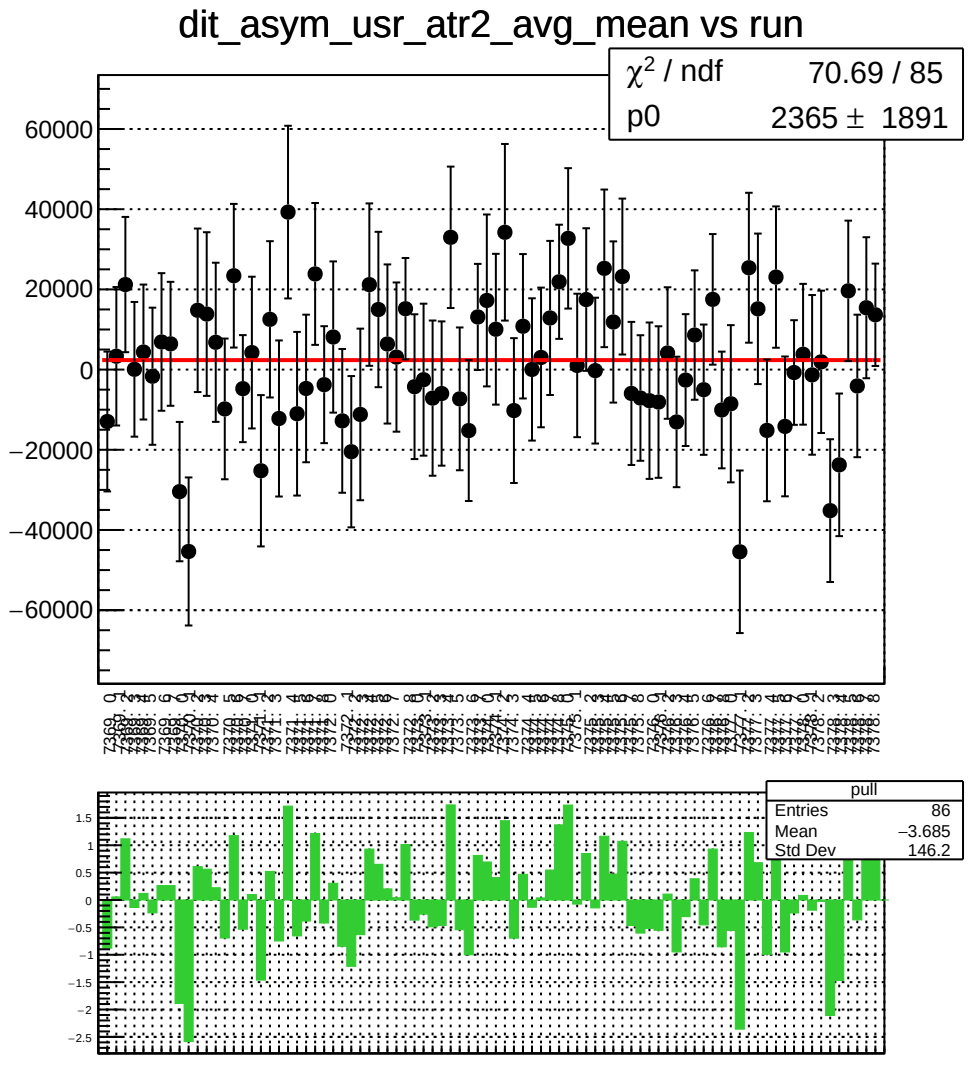
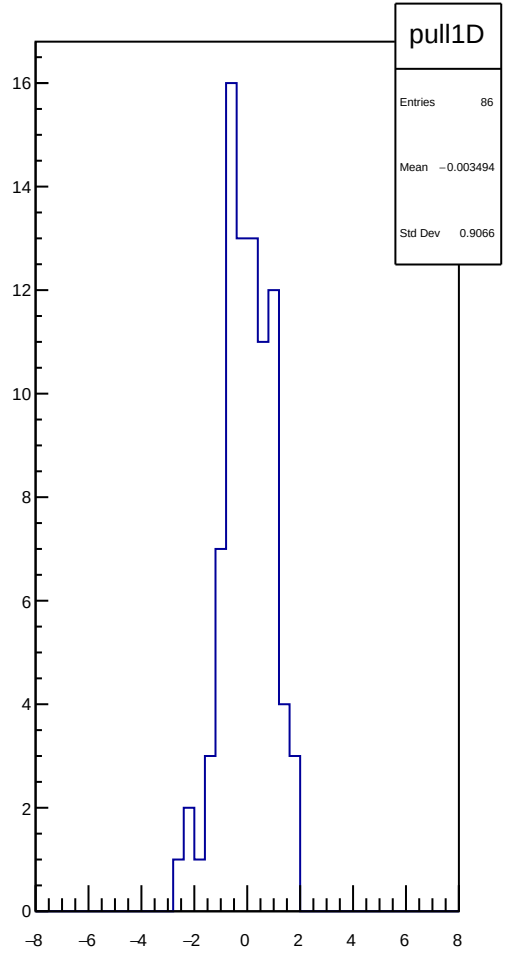
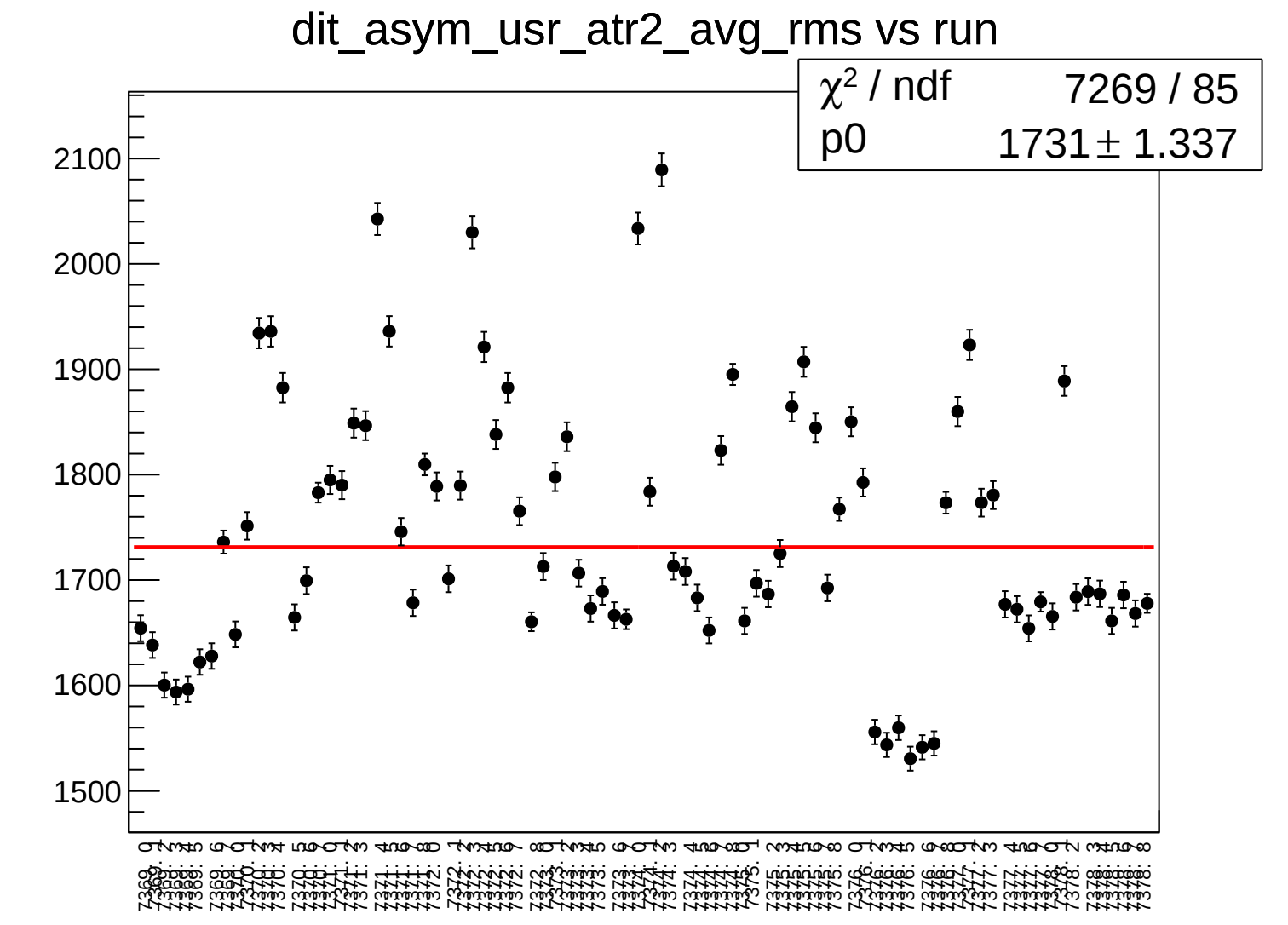
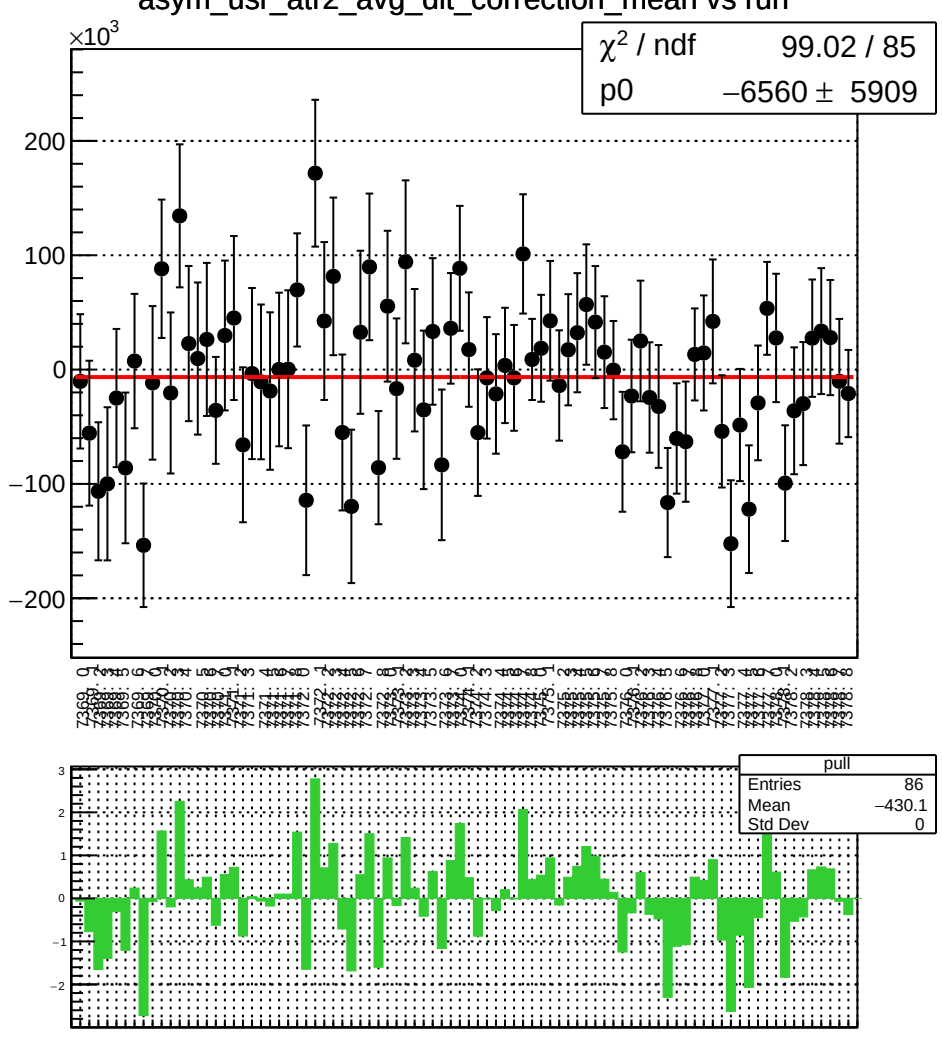
0
2
4
6
8

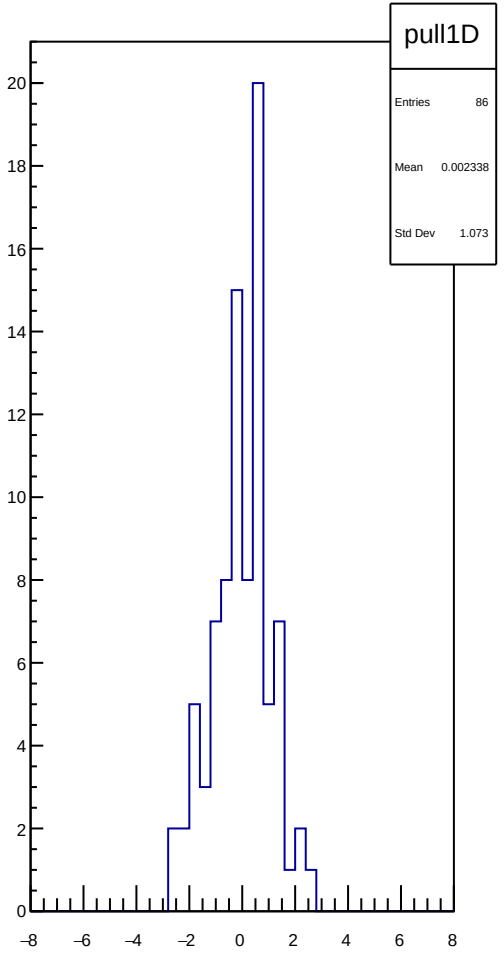

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.106e+04 / 85
p0 5232 ± 4.069
7000
6500
6000
5500
5000
4500
4000

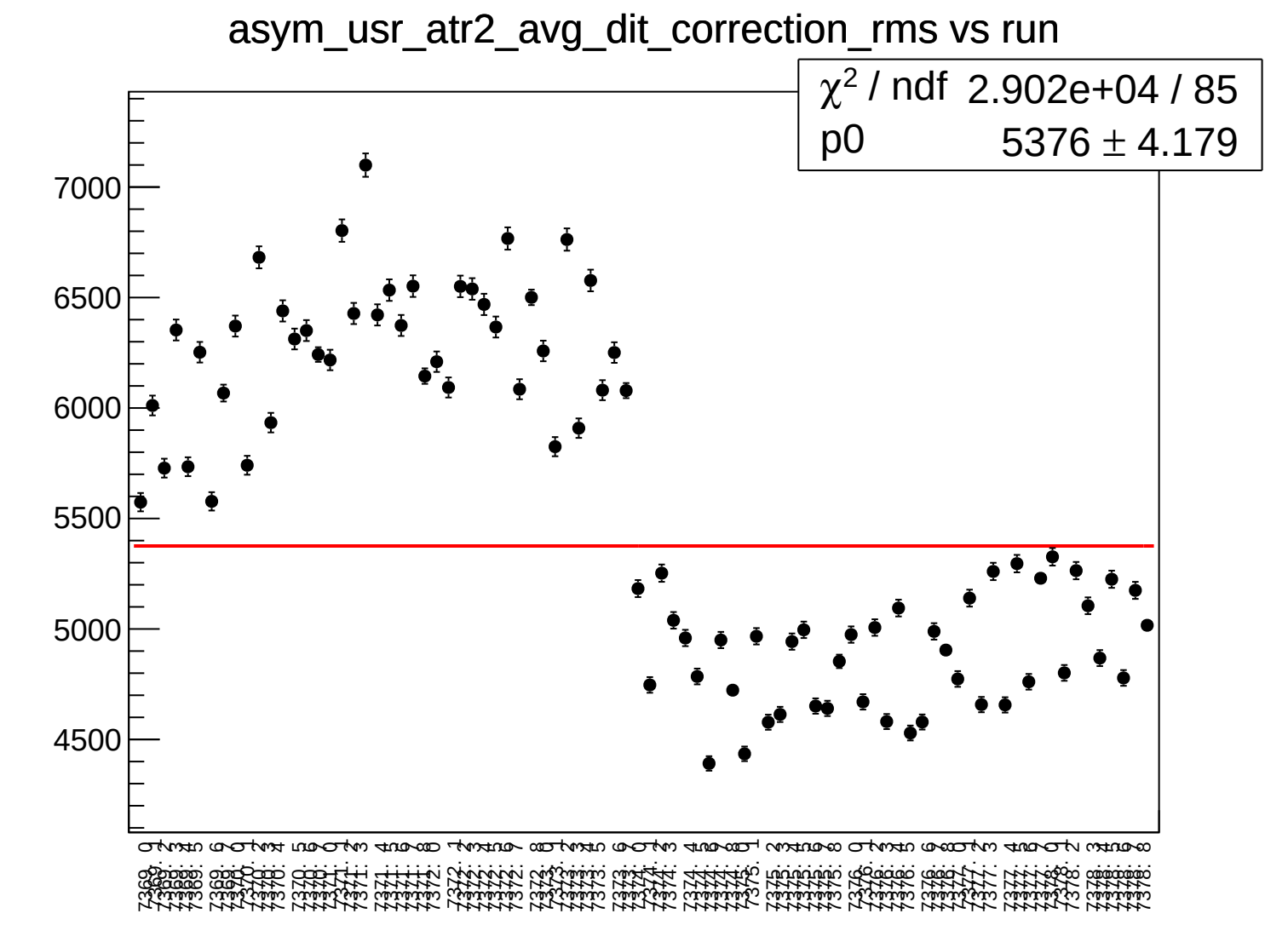

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 70.69 / 85
p0 2365 ± 1891
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −3.685
Std Dev 146.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

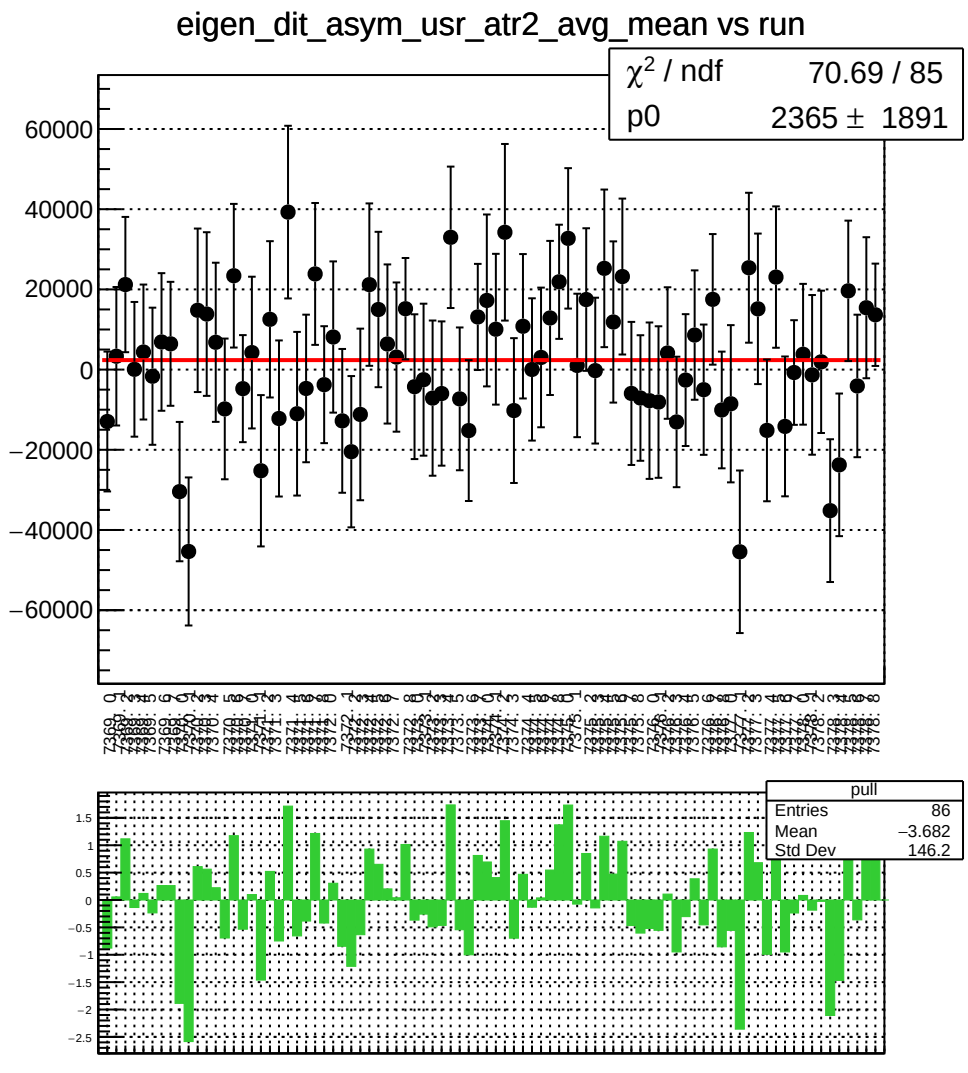

pull1D
Entries 86
Mean −0.003494
Std Dev 0.9066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

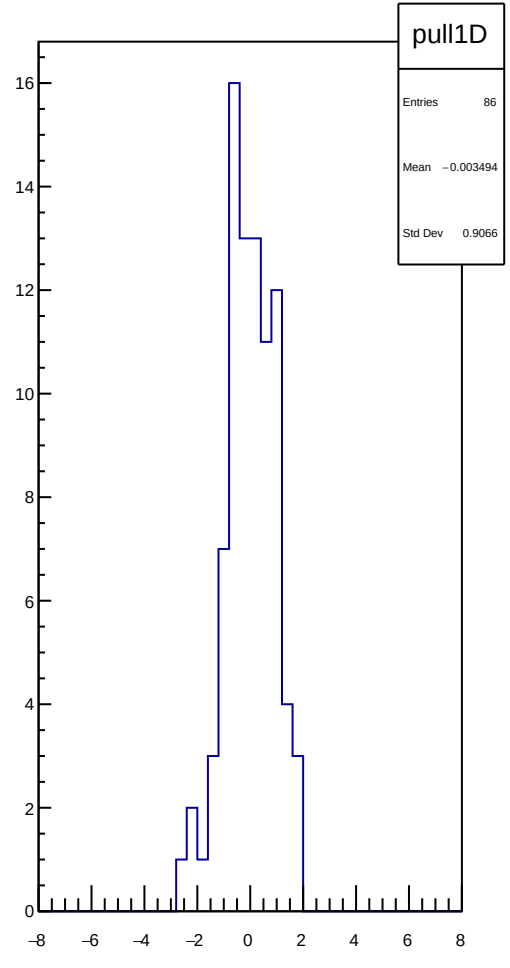

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 7269 / 85
p0 1731 ± 1.337
2100
2000
1900
1800
1700
1600
1500

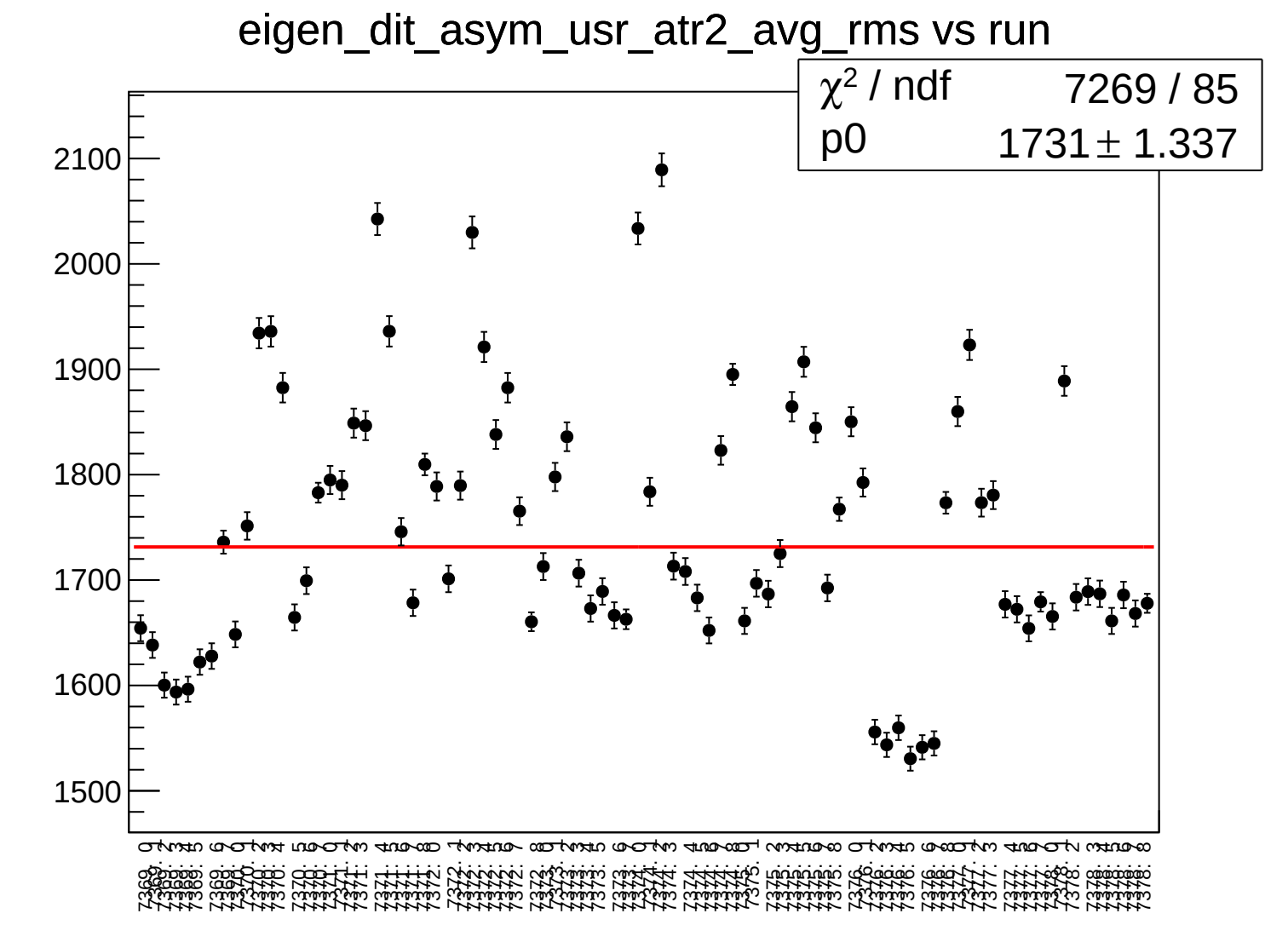

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.02 / 85
p0 −6560 ± 5909
200
100
0
−100
−200
pull
Entries 86
Mean −430.1
Std Dev 0
3
2
1
0
−1
−2

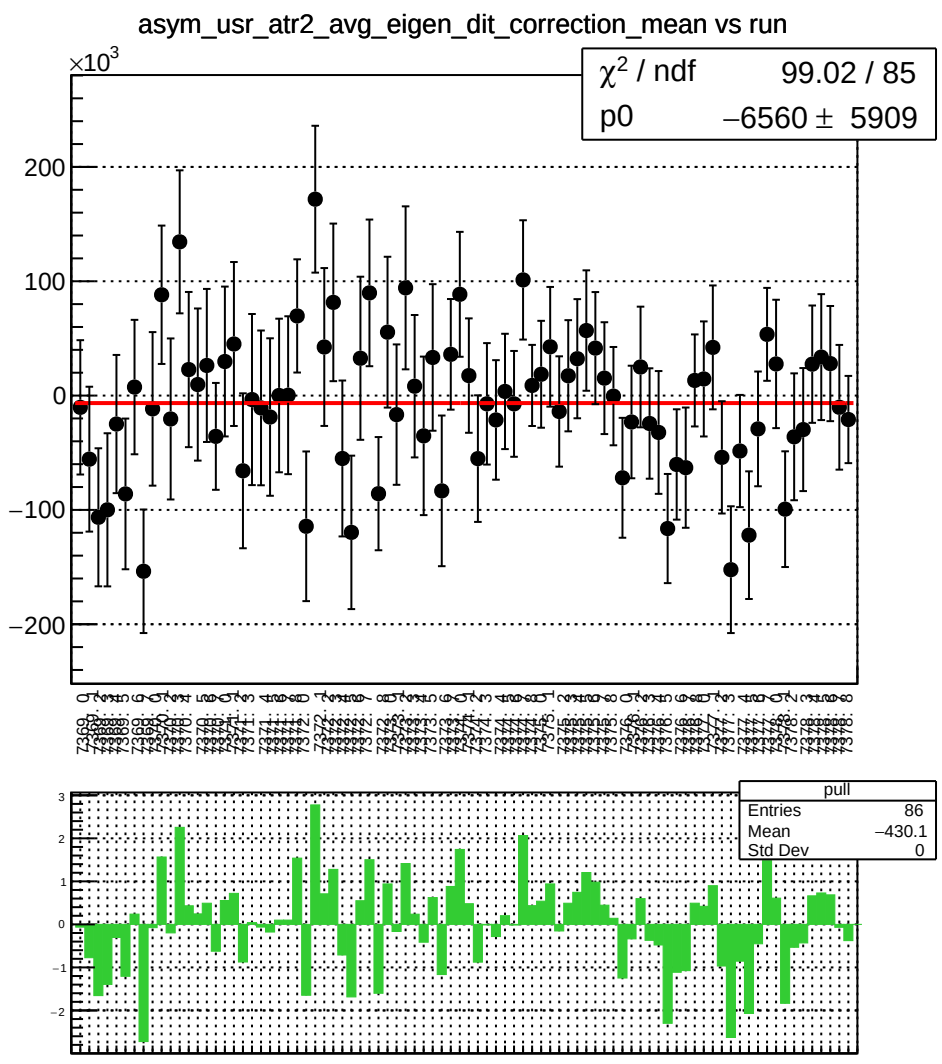

pull1D
Entries 86
Mean 0.002338
Std Dev 1.073
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

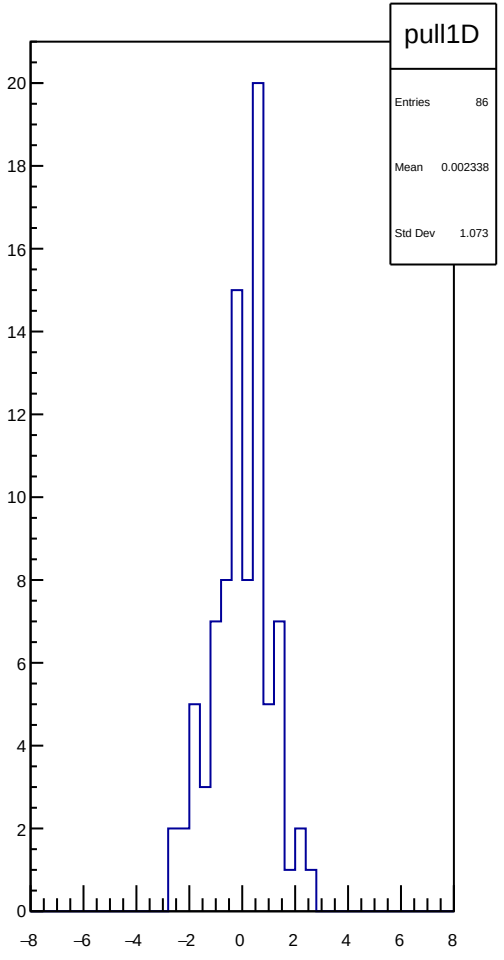

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 2.902e+04 / 85
p0 5376 ± 4.179
7000
6500
6000
5500
5000
4500

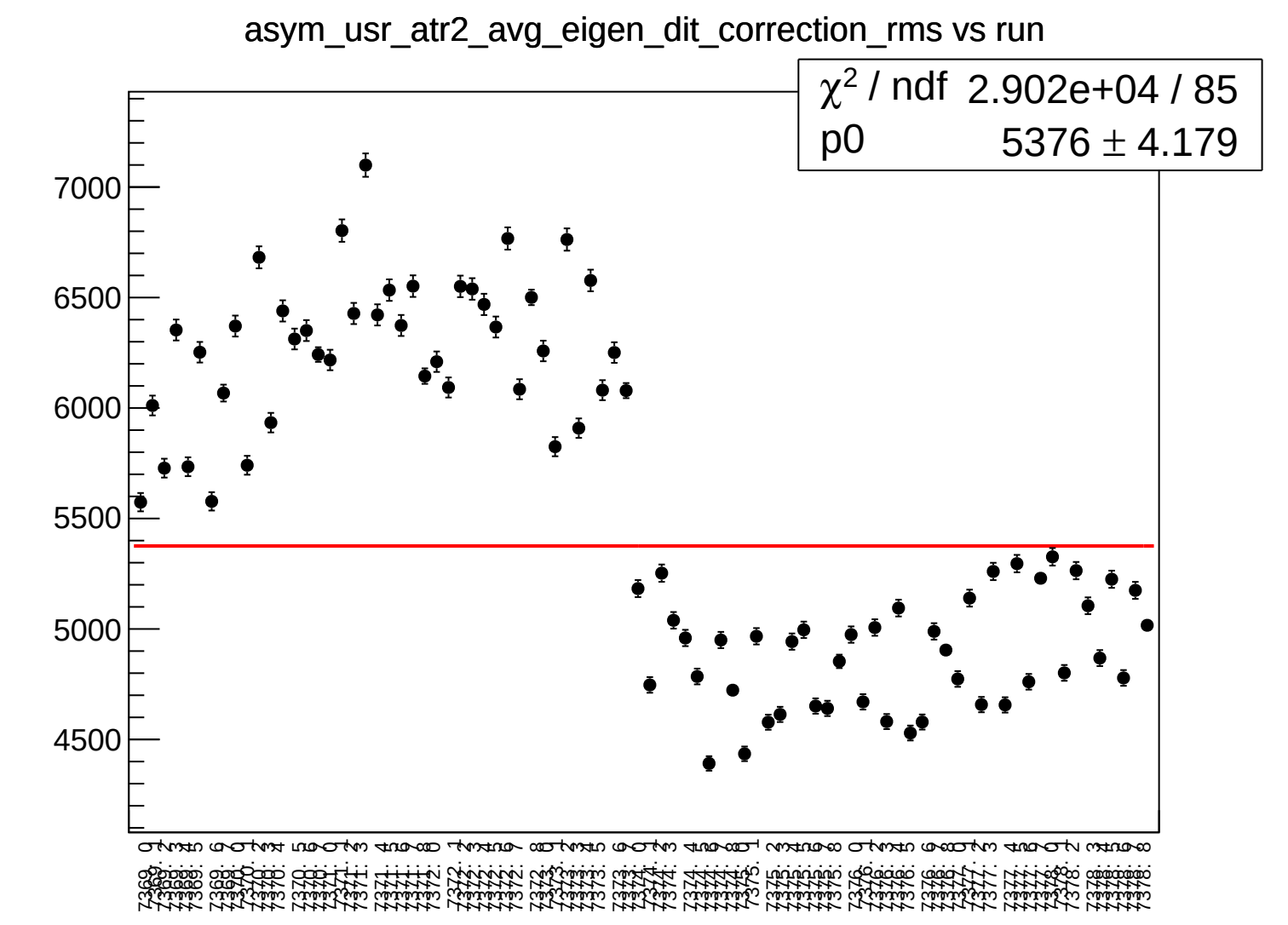

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 70.69 / 85
p0 2365 ± 1891
pull
Entries 86
Mean −3.682
Std Dev 146.2

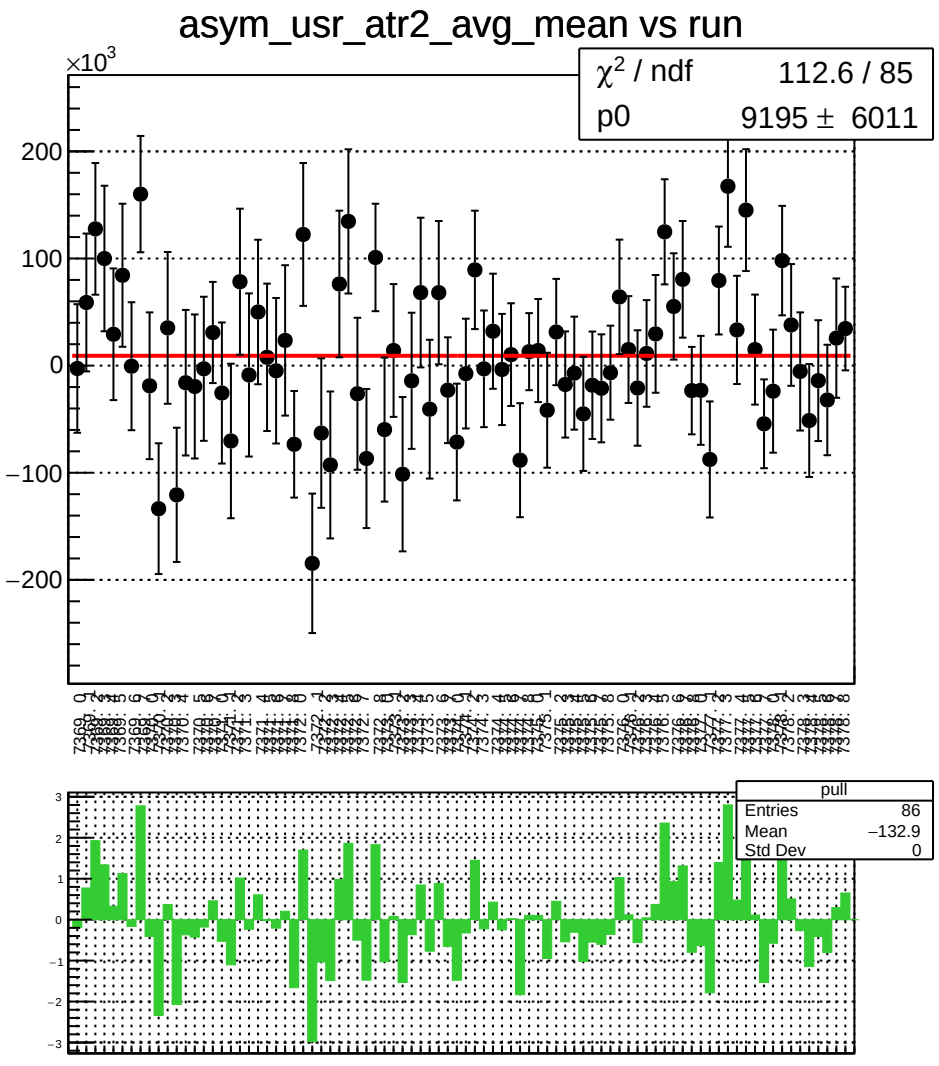

pull1D
Entries 86
Mean −0.003494
Std Dev 0.9066

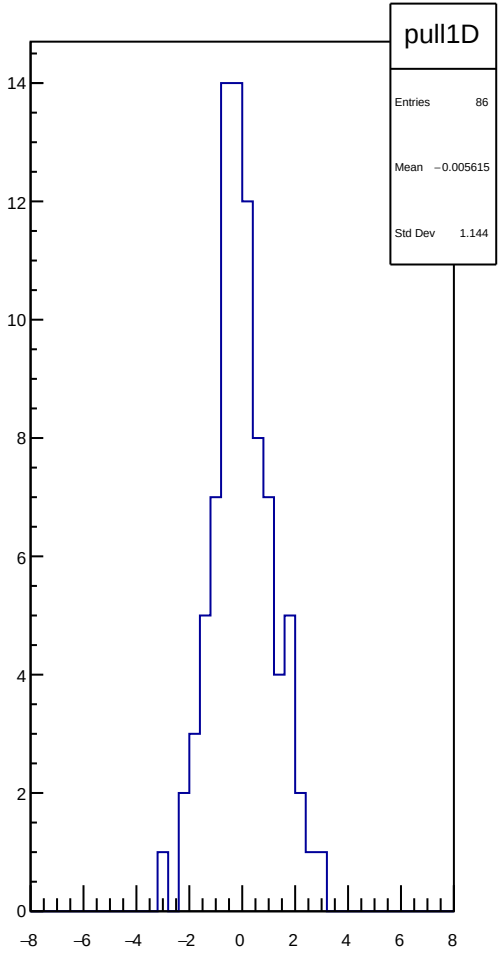

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 7269 / 85
p0 1731 ± 1.337
2100
2000
1900
1800
1700
1600
1500

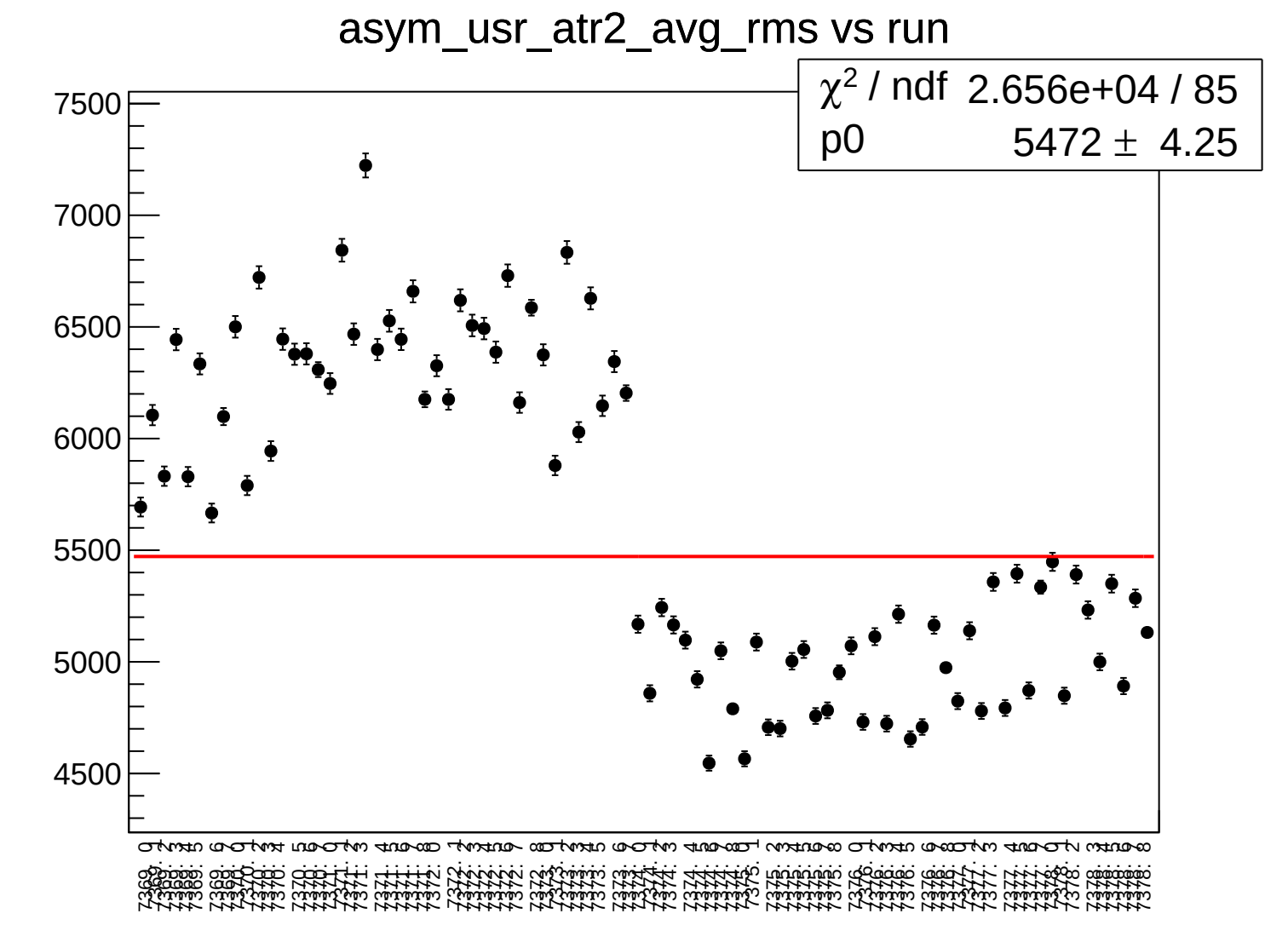

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 99.02 / 85
p0 −6560 ± 5909
200
100
0
−100
−200
pull
Entries 86
Mean −430.1
Std Dev 0
3
2
1
0
−1
−2

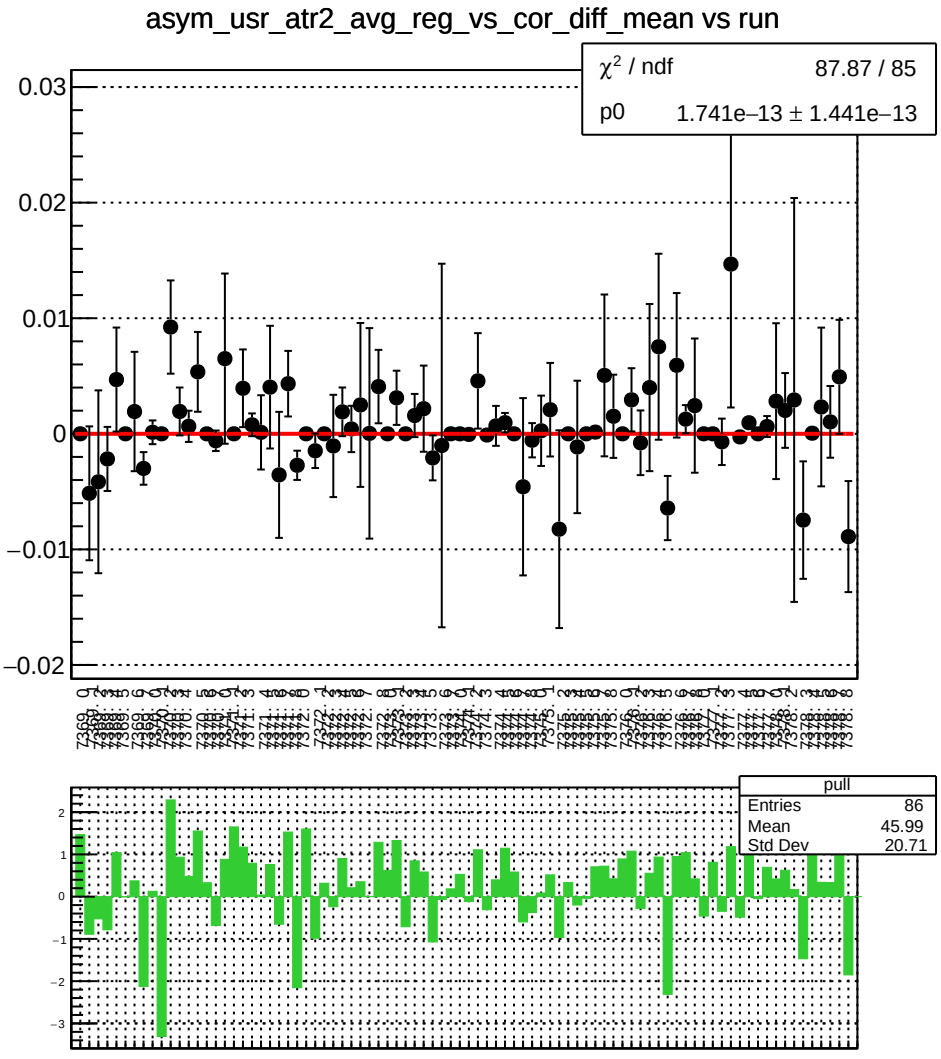

pull1D
Entries 86
Mean 0.002338
Std Dev 1.073
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

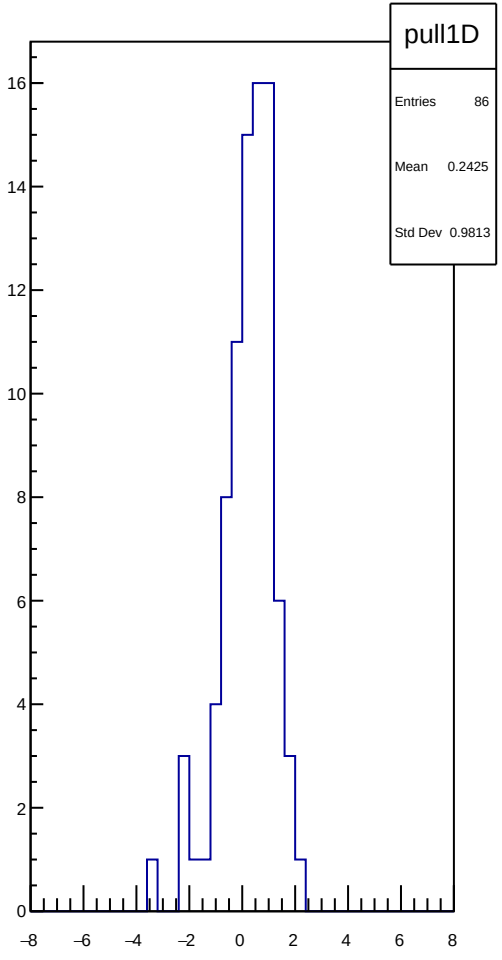

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.902e+04 / 85
p0 5376 ± 4.179
7000
6500
6000
5500
5000
4500

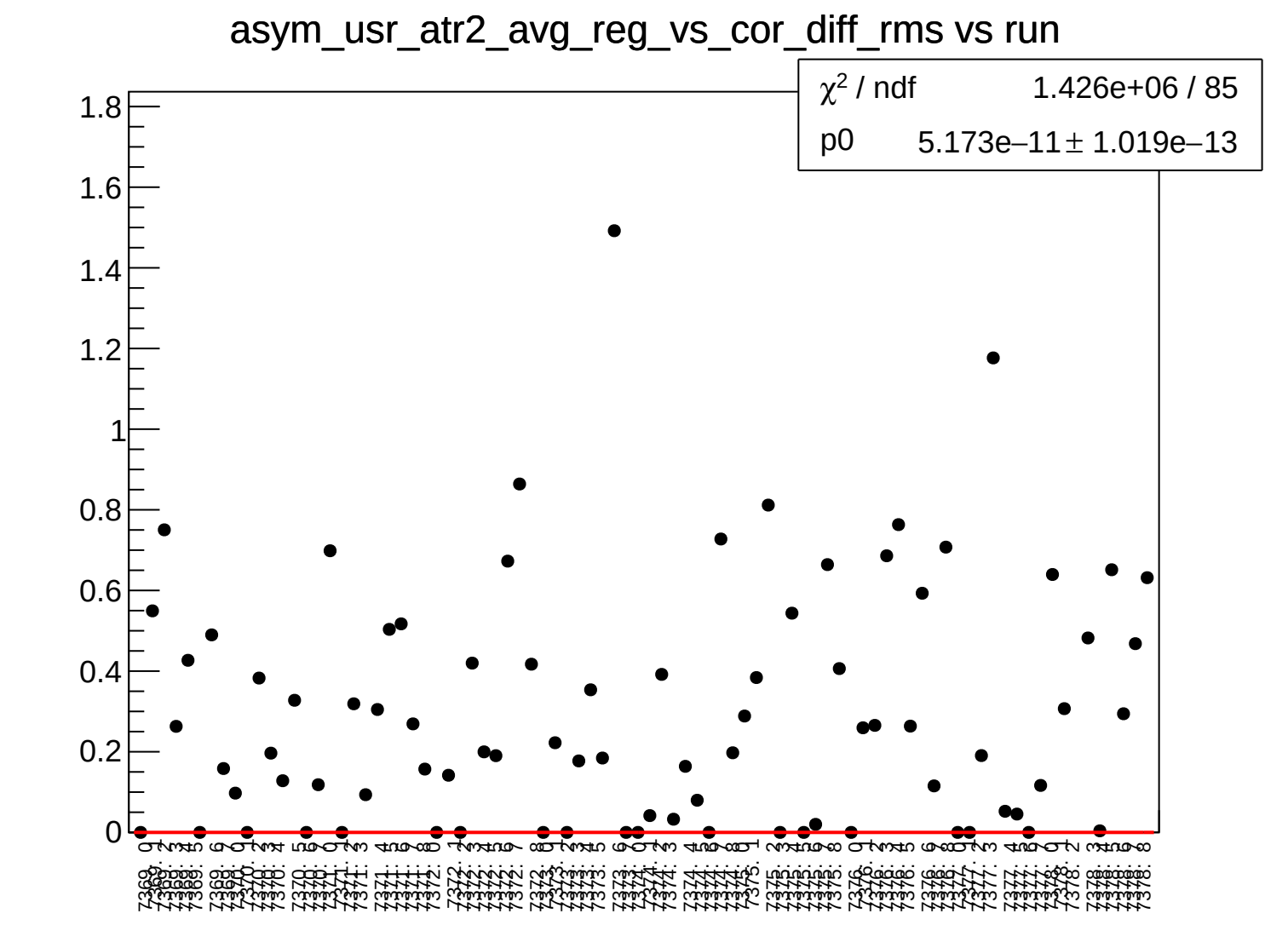

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 112.6 / 85
p0 9195 ± 6011
200
100
0
−100
−200
pull
Entries 86
Mean −132.9
Std Dev 0
3
2
1
0
−1
−2
−3

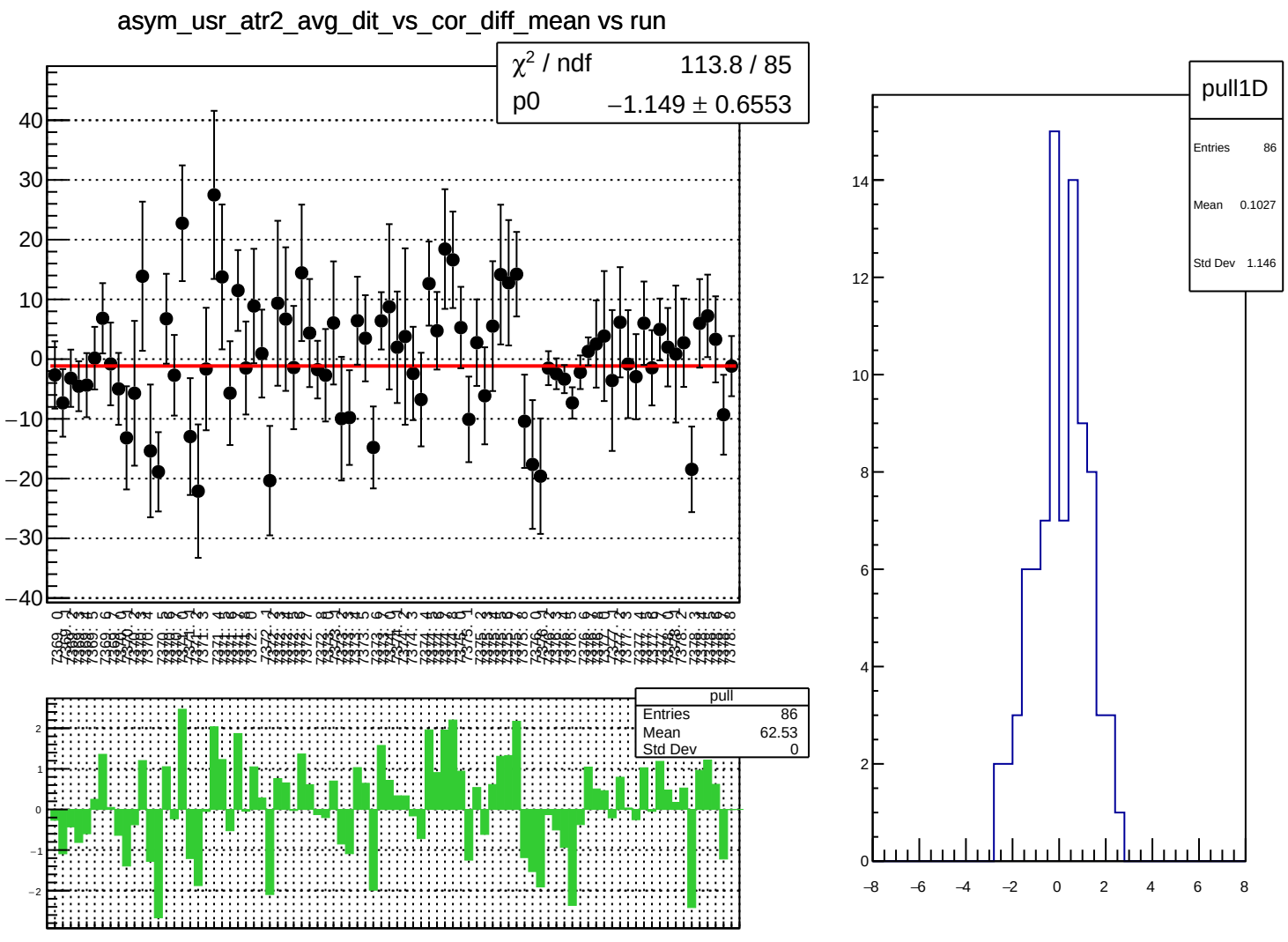

pull1D
Entries 86
Mean −0.005615
Std Dev 1.144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

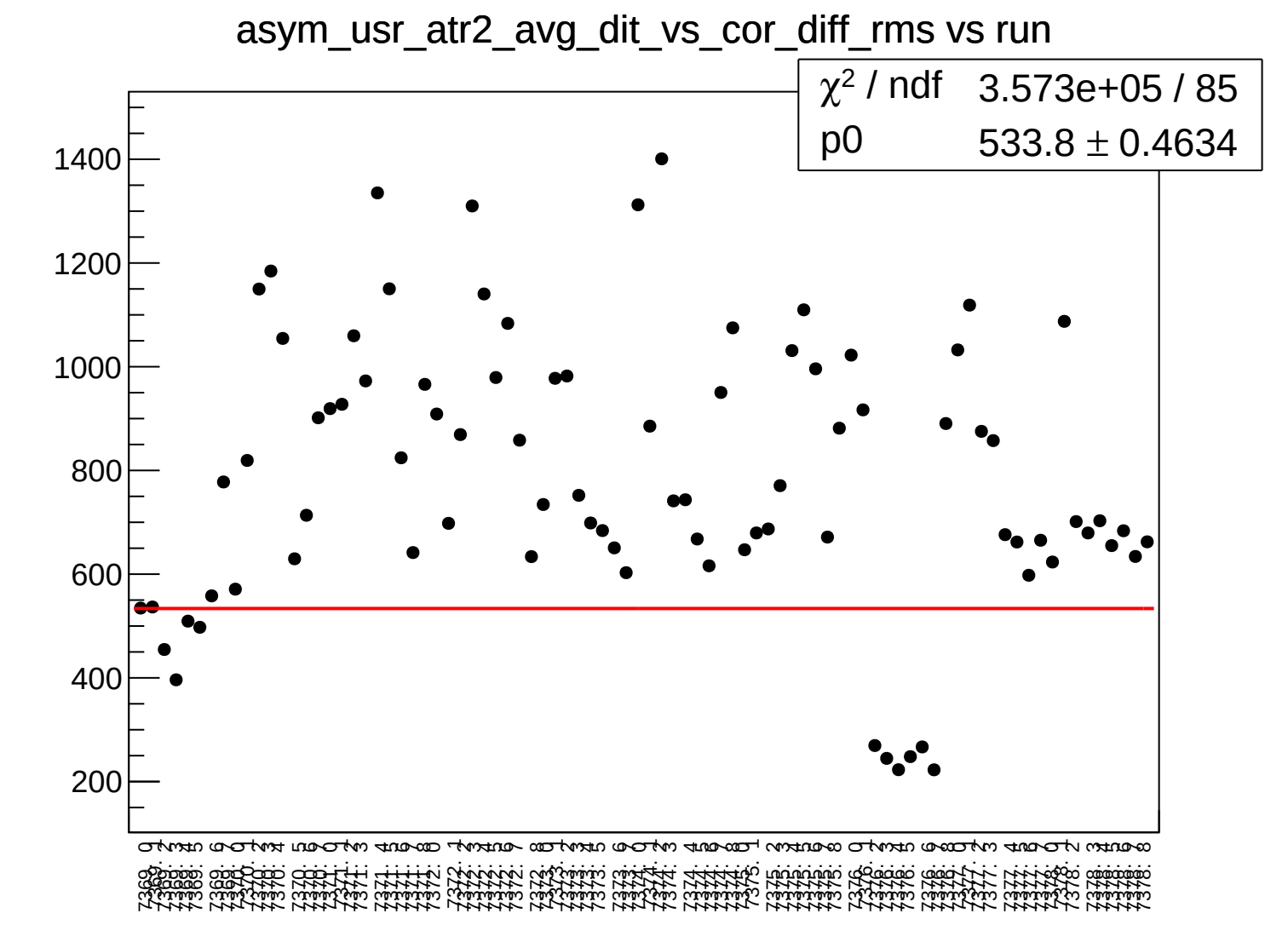

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 2.656e+04 / 85
p0 5472 ± 4.25
7500
7000
6500
6000
5500
5000
4500

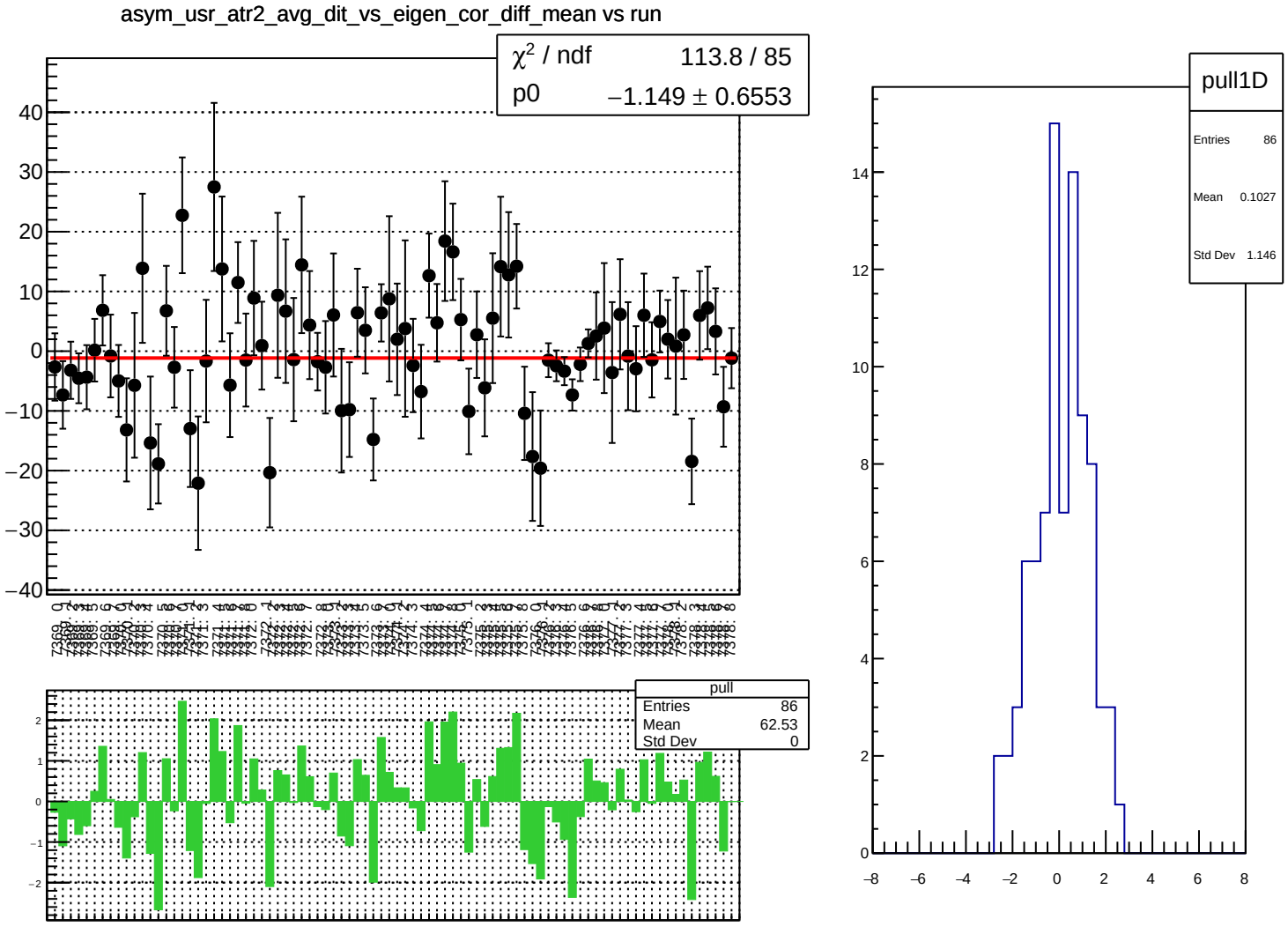

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.87 / 85
p0 1.741e−13 ± 1.441e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 45.99
Std Dev 20.71
2
1
0
−1
−2
−3

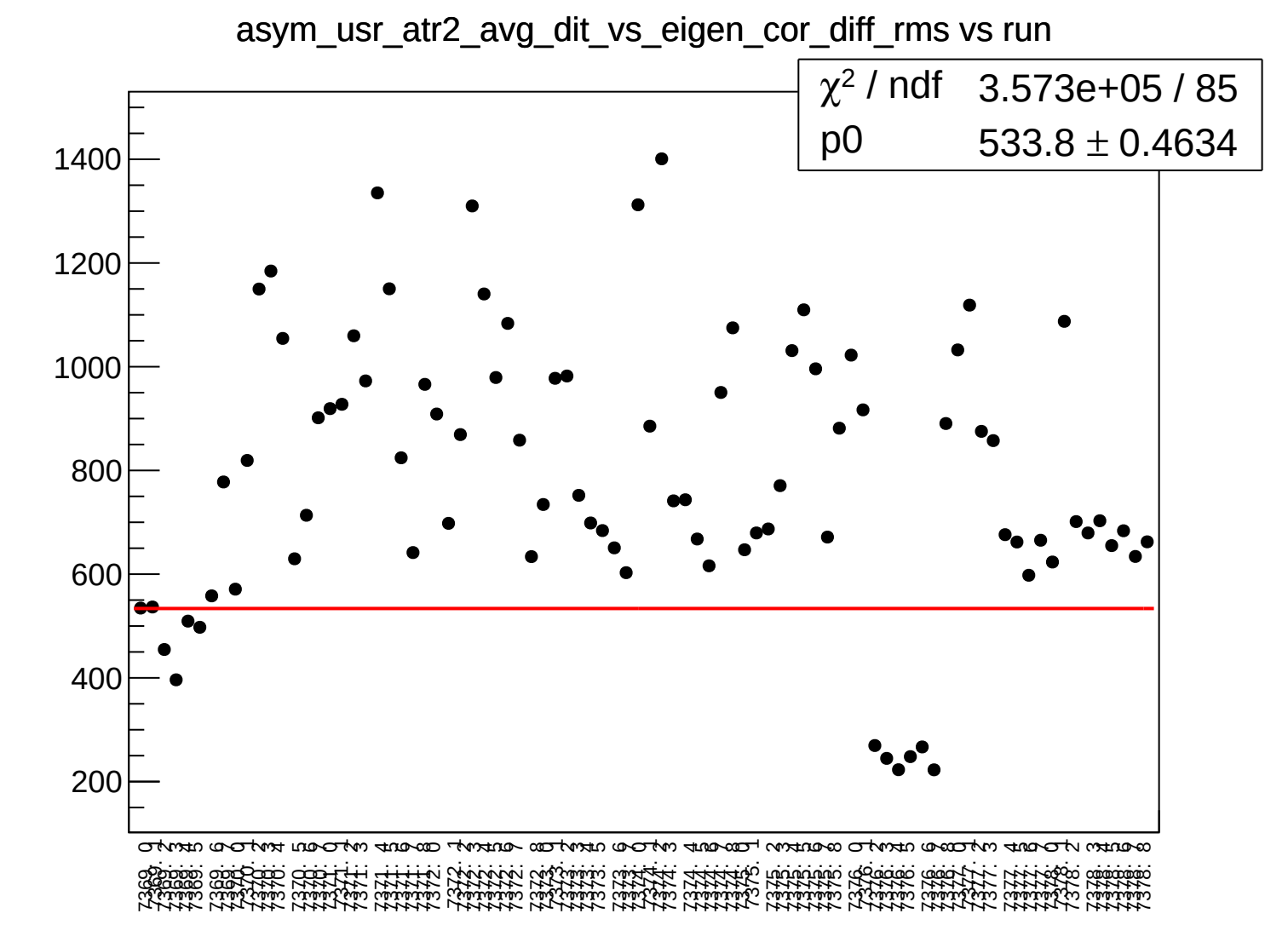

pull1D
Entries 86
Mean 0.2425
Std Dev 0.9813
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

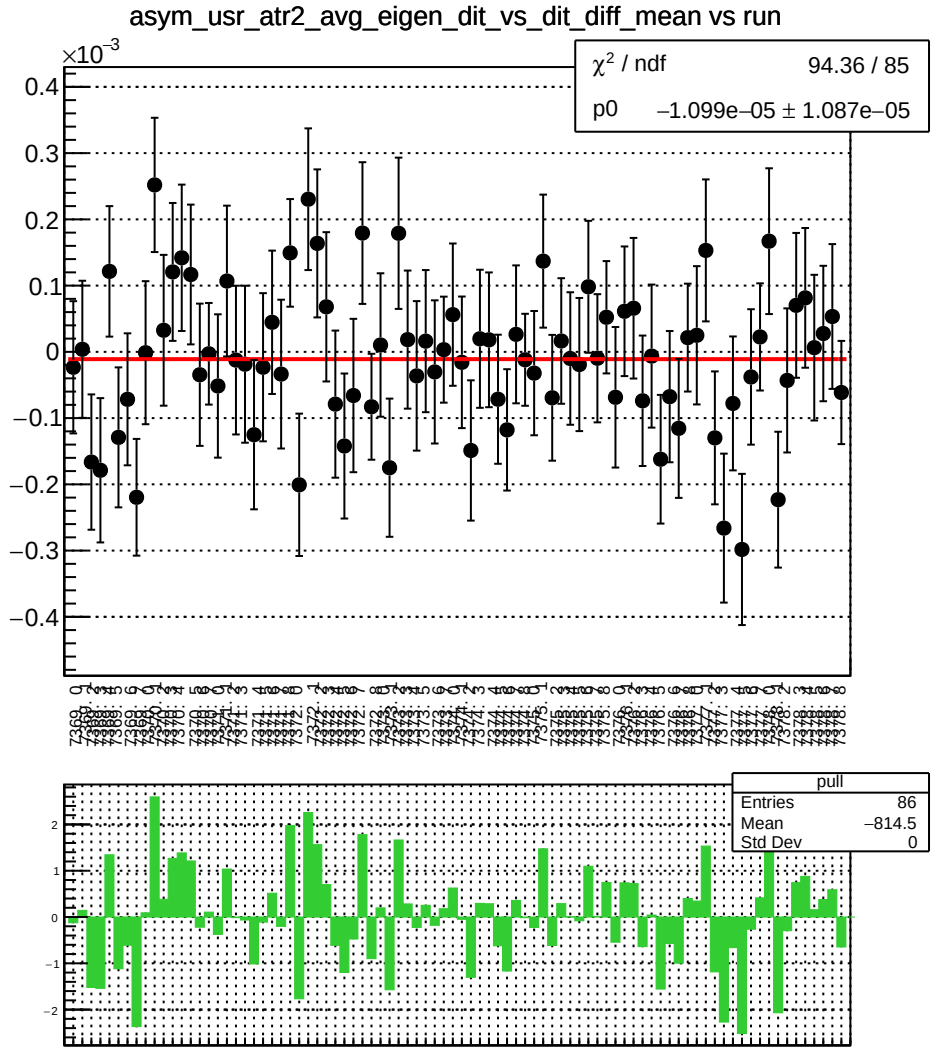

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.426e+06 / 85
p0 5.173e−11 ± 1.019e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

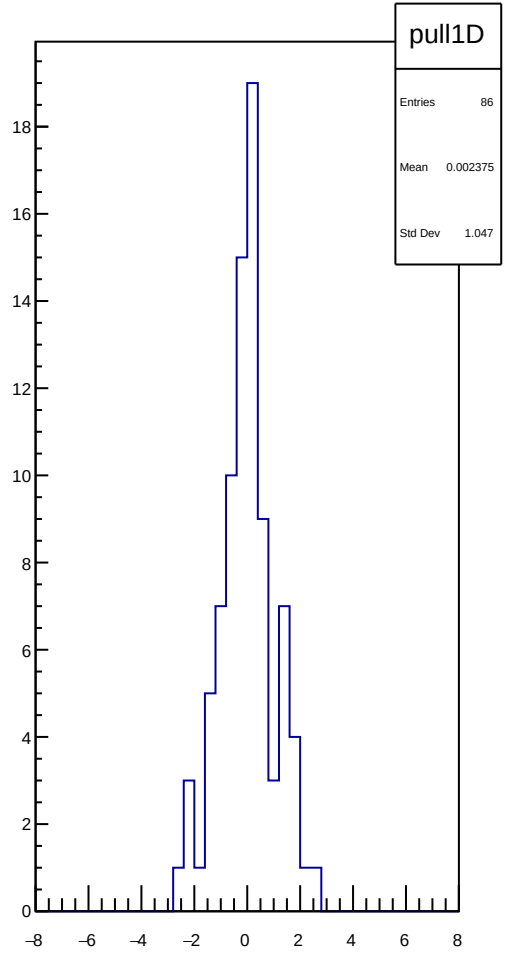

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 113.8 / 85
p0 −1.149 ± 0.6553
pull
Entries 86
Mean 62.53
Std Dev 0
pull1D
Entries 86
Mean 0.1027
Std Dev 1.146

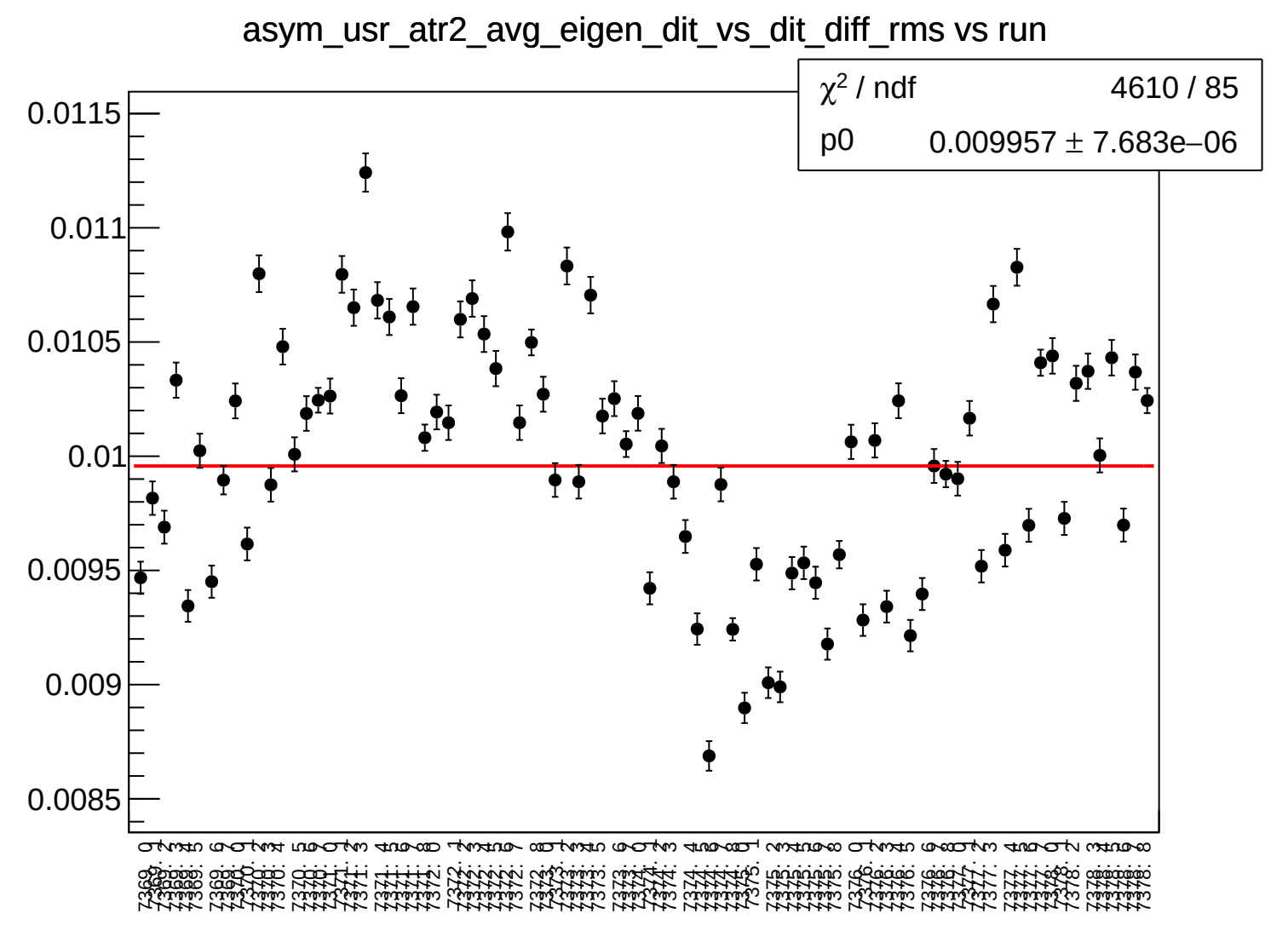

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.573e+05 / 85
p0 533.8 ± 0.4634
1400
1200
1000
800
600
400
200

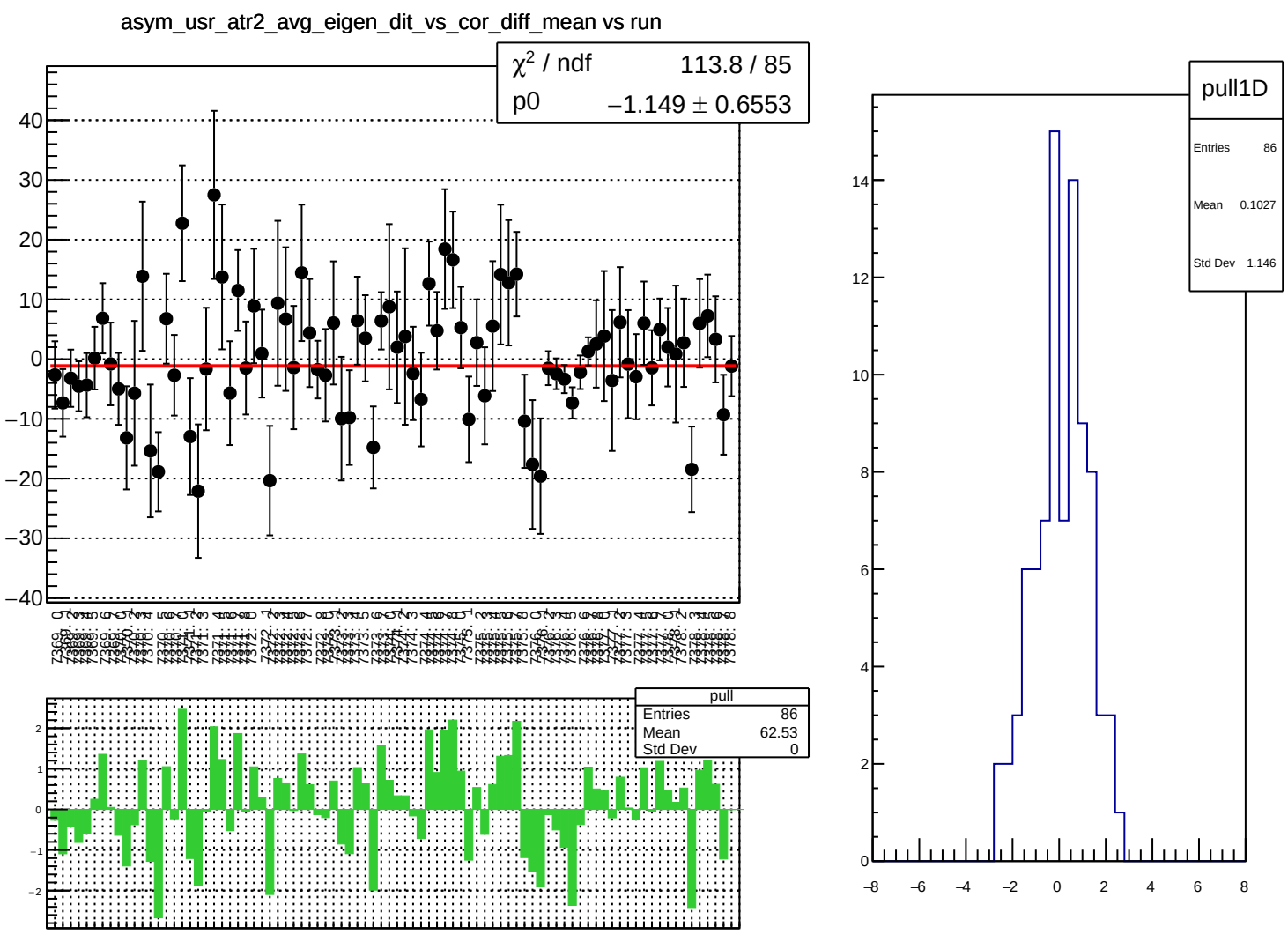

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.8 / 85
p0 −1.149 ± 0.6553
pull
Entries 86
Mean 62.53
Std Dev 0
pull1D
Entries 86
Mean 0.1027
Std Dev 1.146

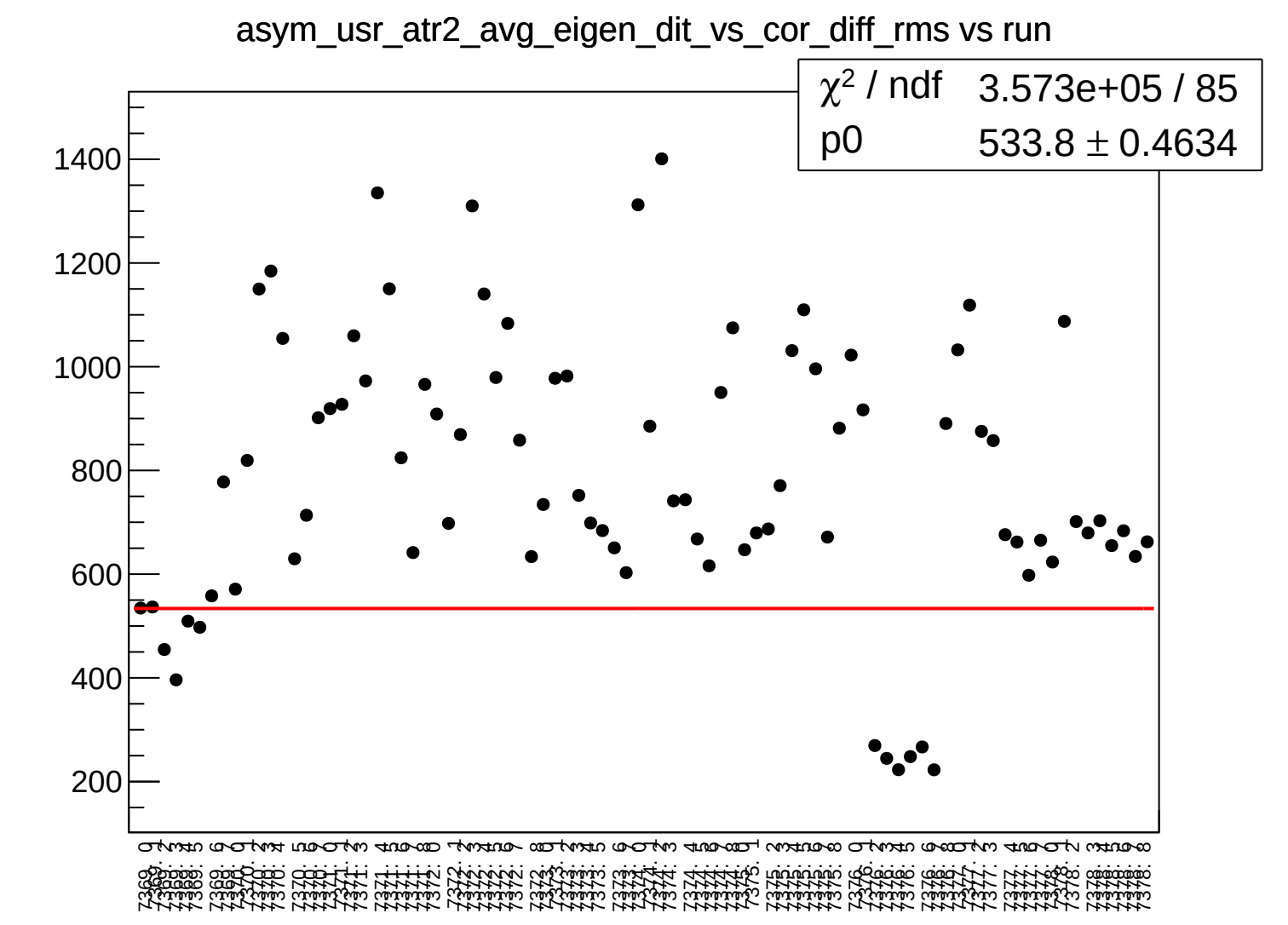

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.573e+05 / 85
p0 533.8 ± 0.4634
1400
1200
1000
800
600
400
200

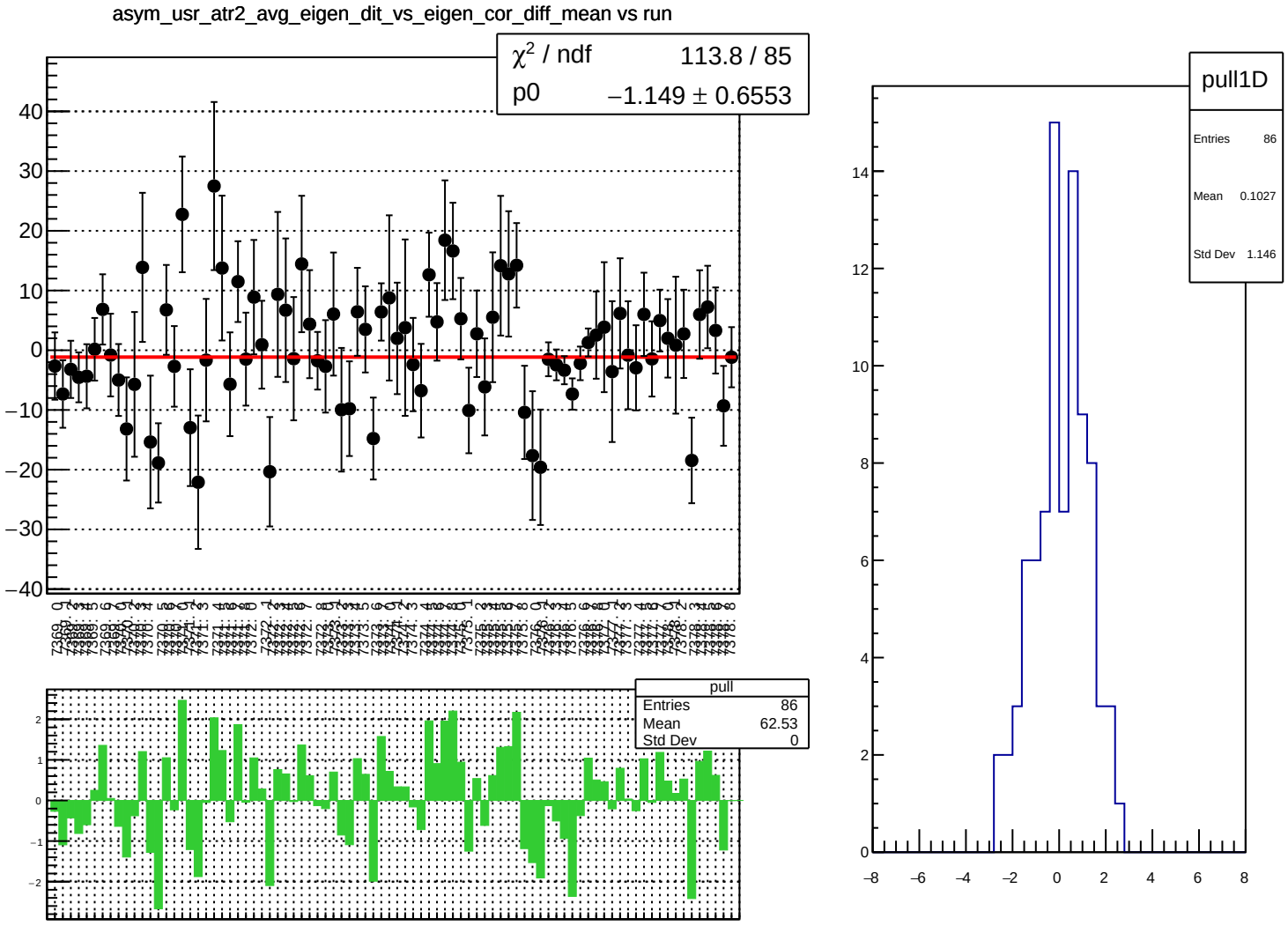

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.36 / 85
p0 −1.099e−05 ± 1.087e−05
pull
Entries 86
Mean −814.5
Std Dev 0

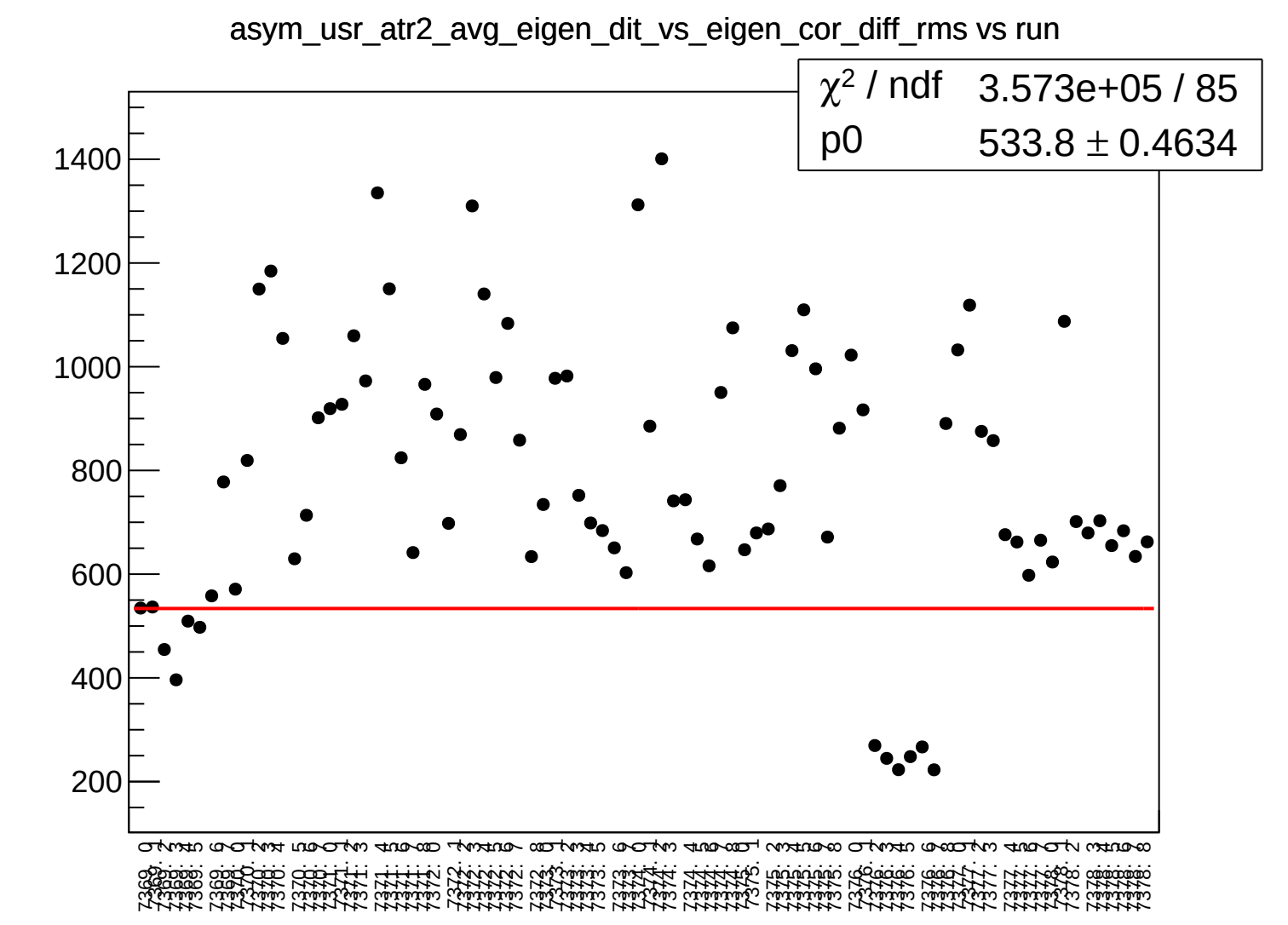

pull1D
Entries 86
Mean 0.002375
Std Dev 1.047

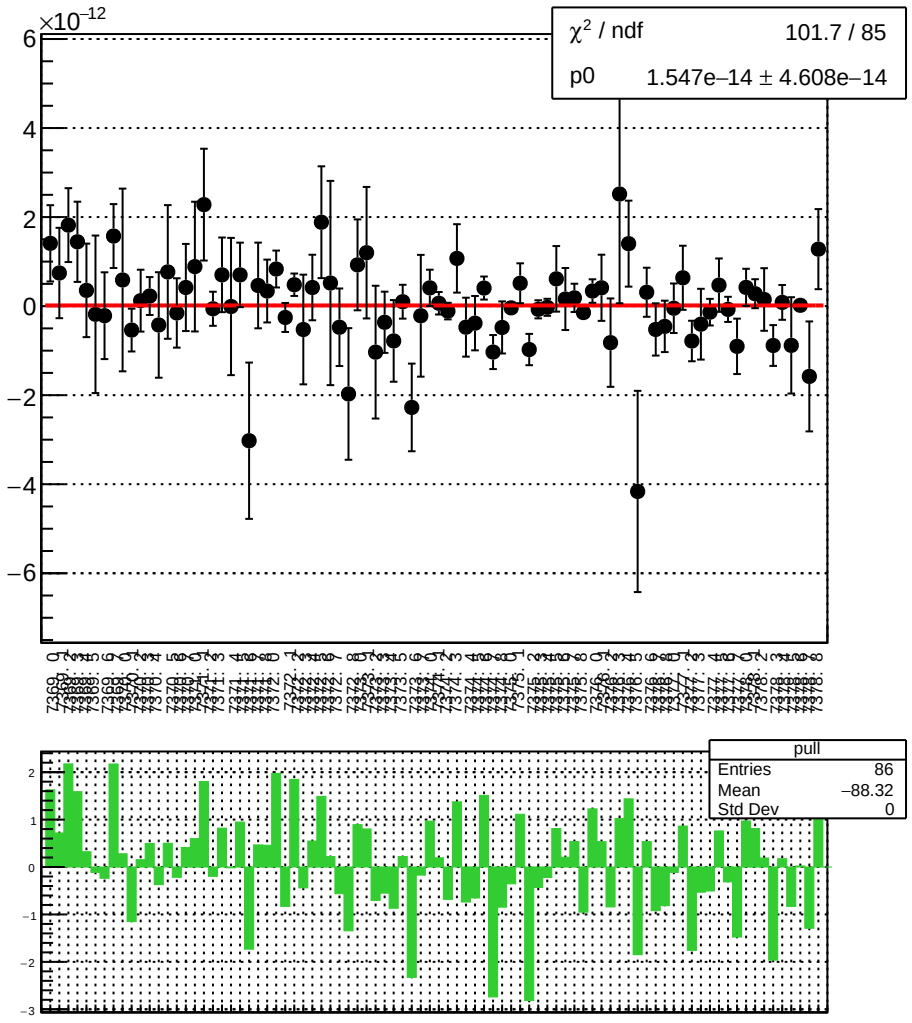

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4610 / 85
p0 0.009957 ± 7.683e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

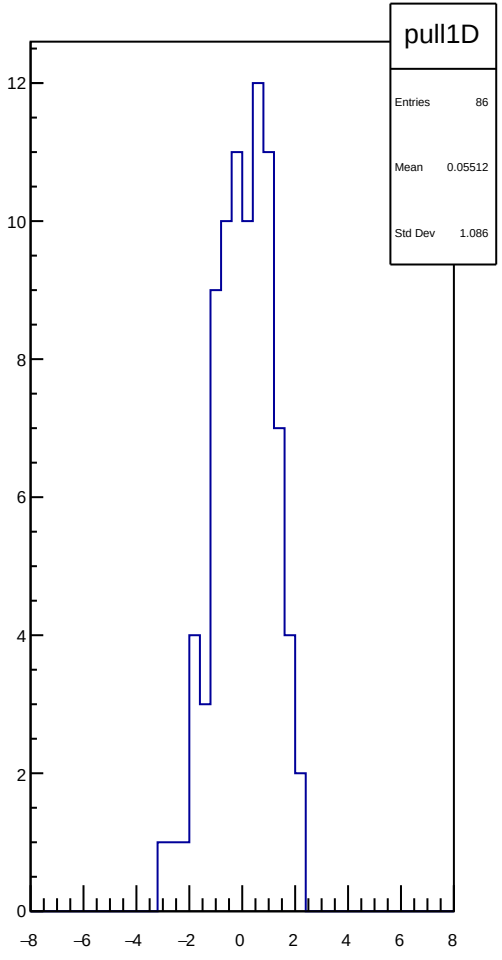

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.8 / 85
p0 −1.149 ± 0.6553
pull
Entries 86
Mean 62.53
Std Dev 0
pull1D
Entries 86
Mean 0.1027
Std Dev 1.146

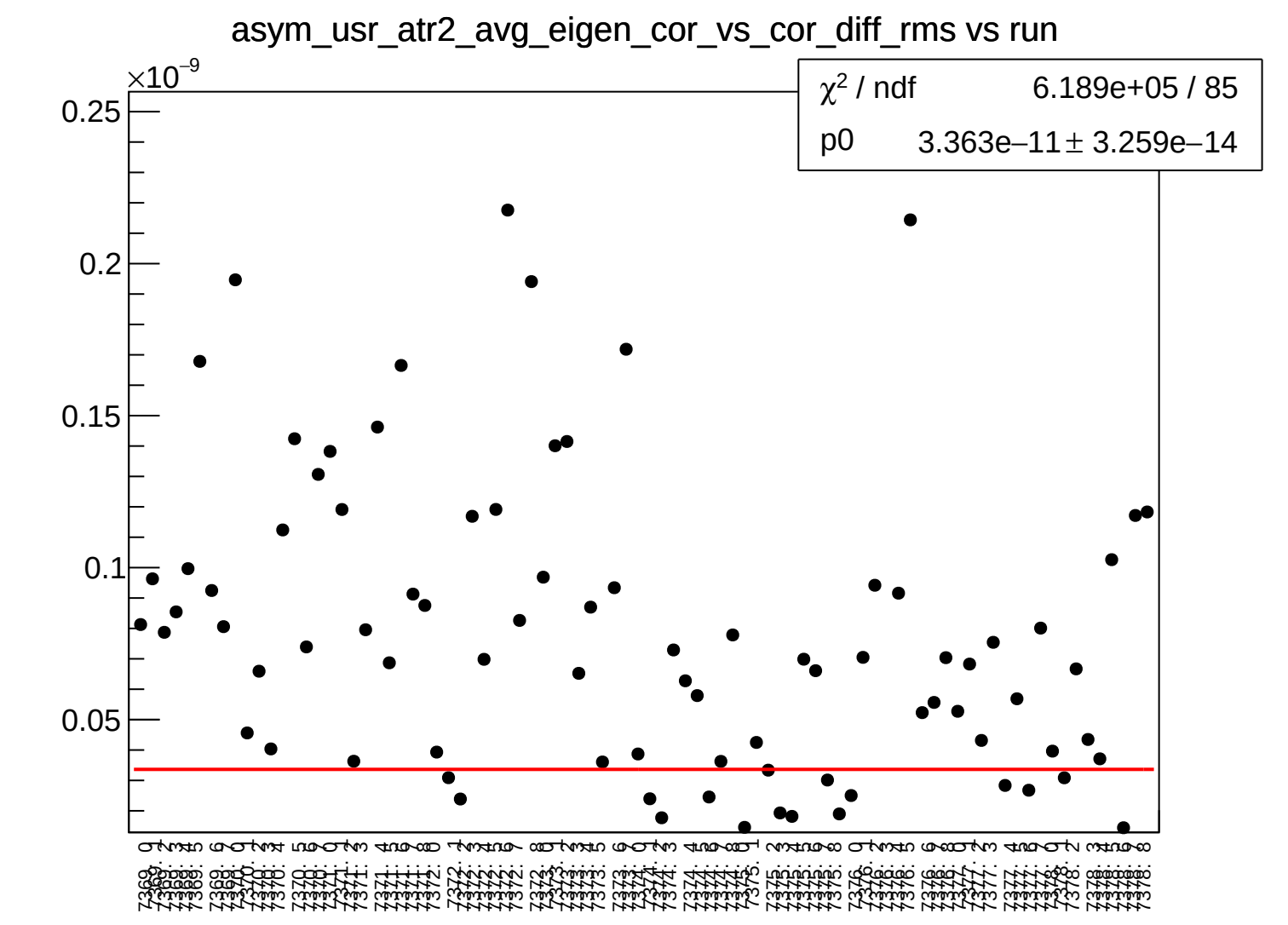

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.573e+05 / 85
p0 533.8 ± 0.4634
1400
1200
1000
800
600
400
200

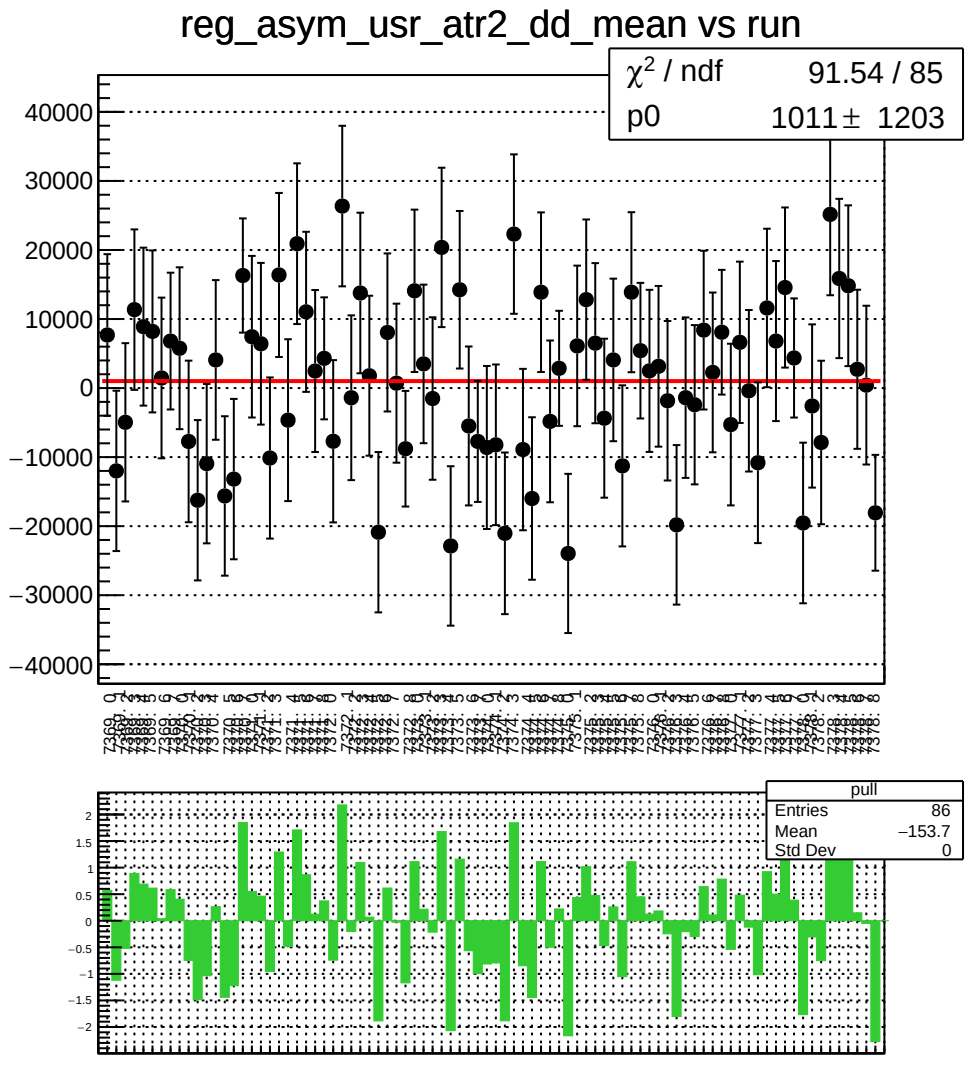

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.8 / 85
p0 −1.149 ± 0.6553
pull
Entries 86
Mean 62.53
Std Dev 0
pull1D
Entries 86
Mean 0.1027
Std Dev 1.146

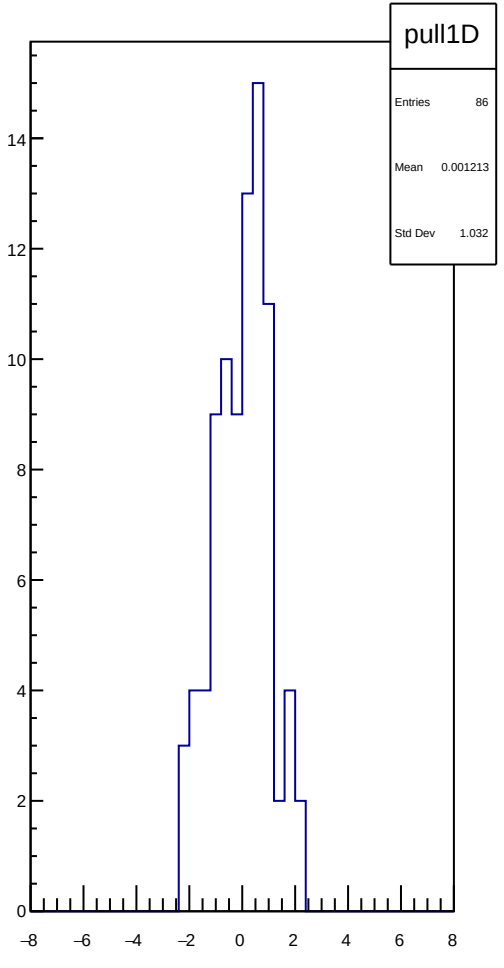

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.573e+05 / 85
p0 533.8 ± 0.4634
1400
1200
1000
800
600
400
200

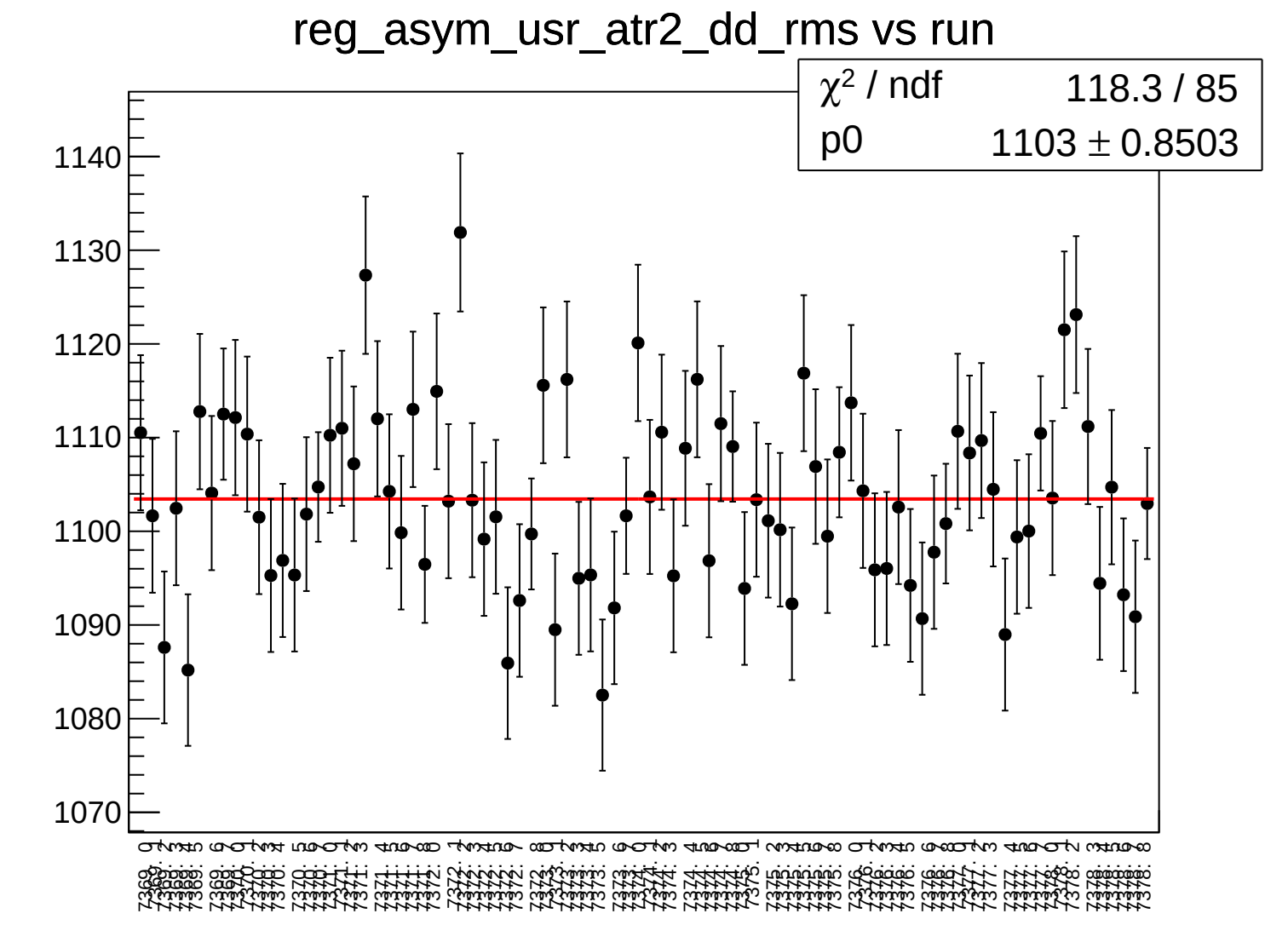

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.7 / 85
p0 1.547e−14 ± 4.608e−14
pull
Entries 86
Mean −88.32
Std Dev 0

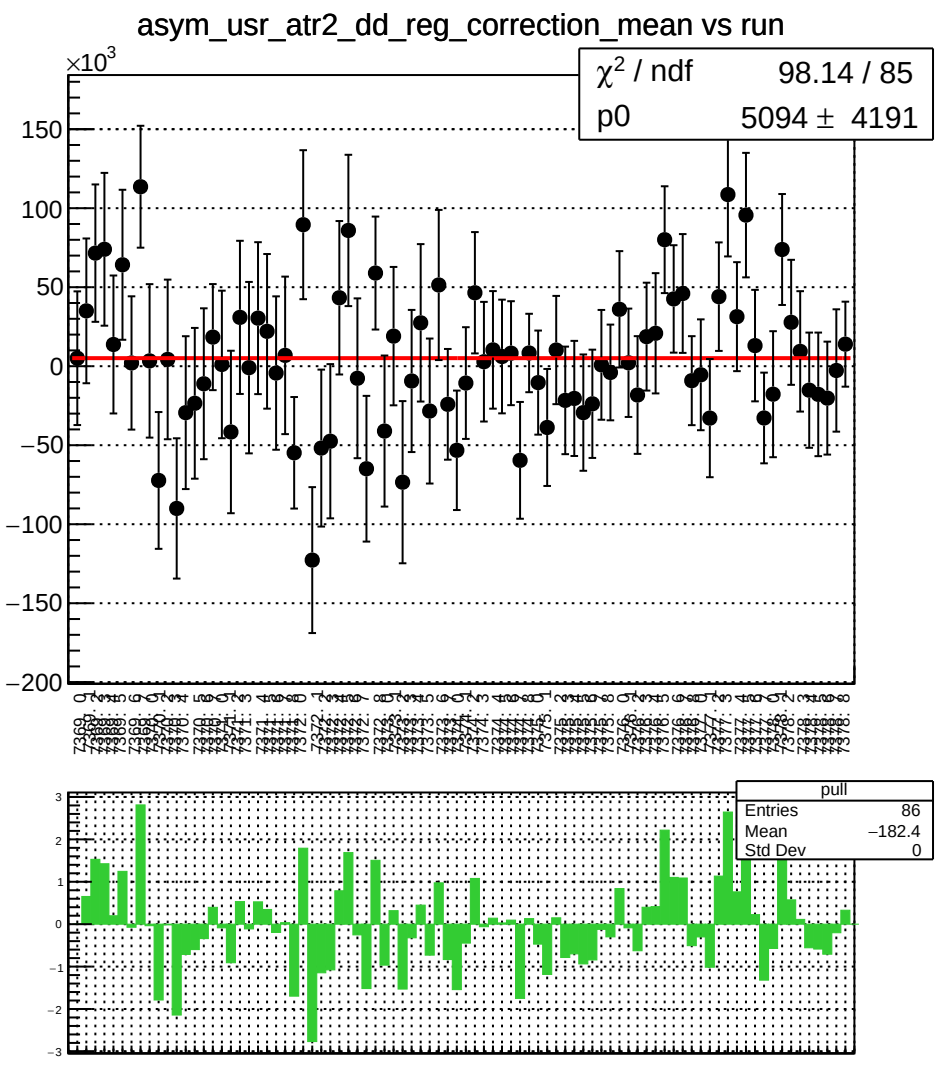

pull1D
Entries 86
Mean 0.05512
Std Dev 1.086

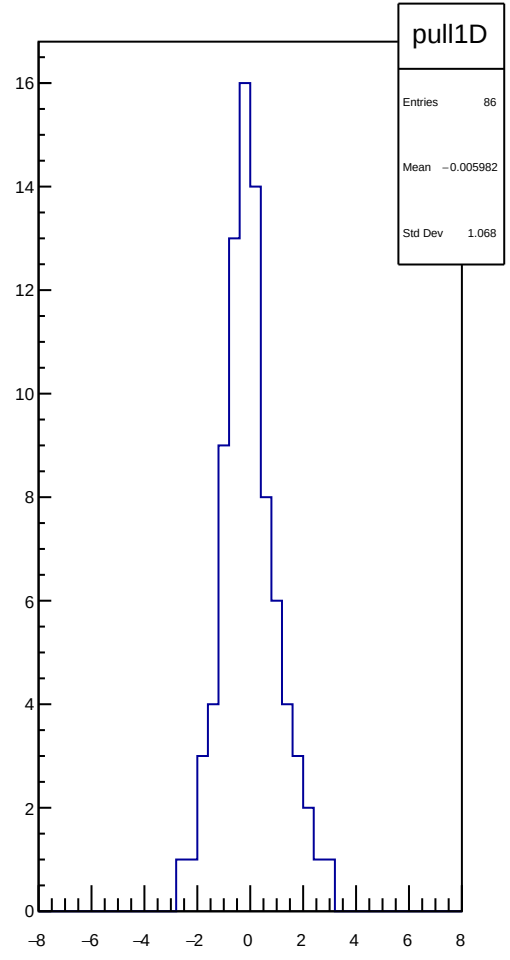

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.189e+05 / 85
p0 3.363e−11 ± 3.259e−14
0.25
0.2
0.15
0.1
0.05

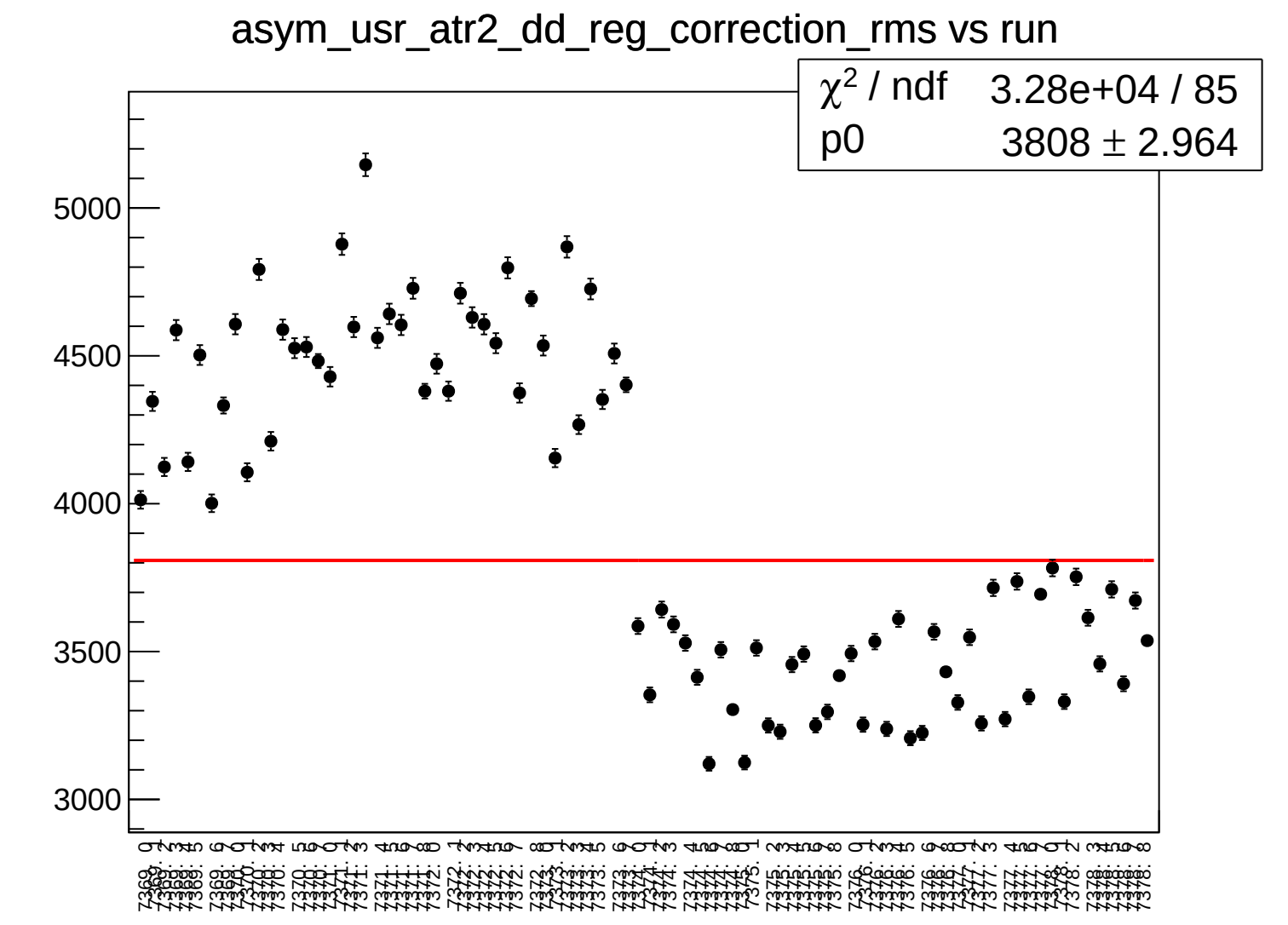

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 91.54 / 85
p0 1011 ± 1203
pull
Entries 86
Mean −153.7
Std Dev 0

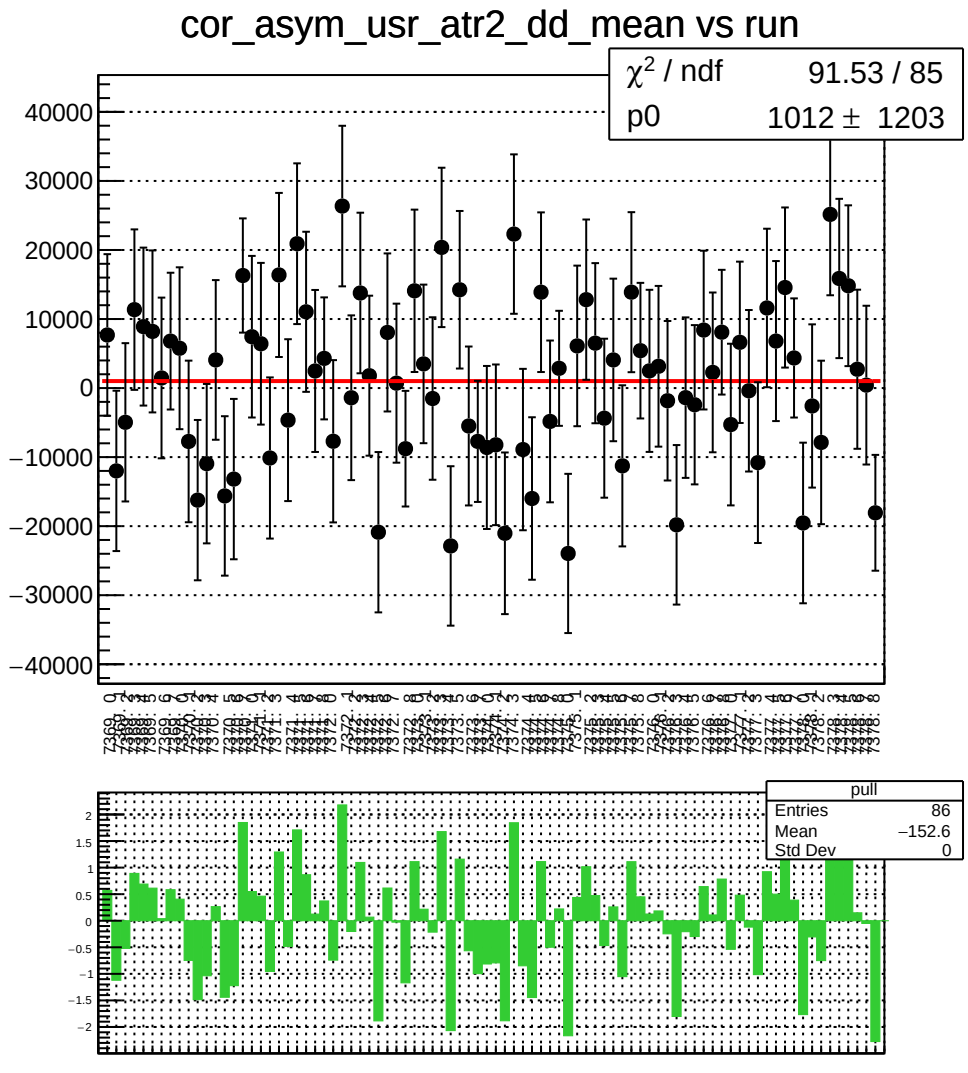

pull1D
Entries 86
Mean 0.001213
Std Dev 1.032

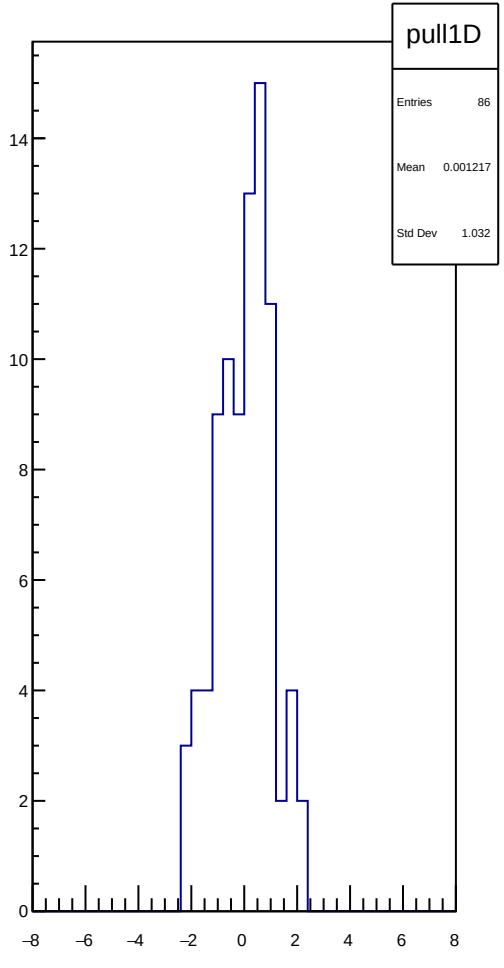

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 118.3 / 85
p0 1103 ± 0.8503
1140
1130
1120
1110
1100
1090
1080
1070

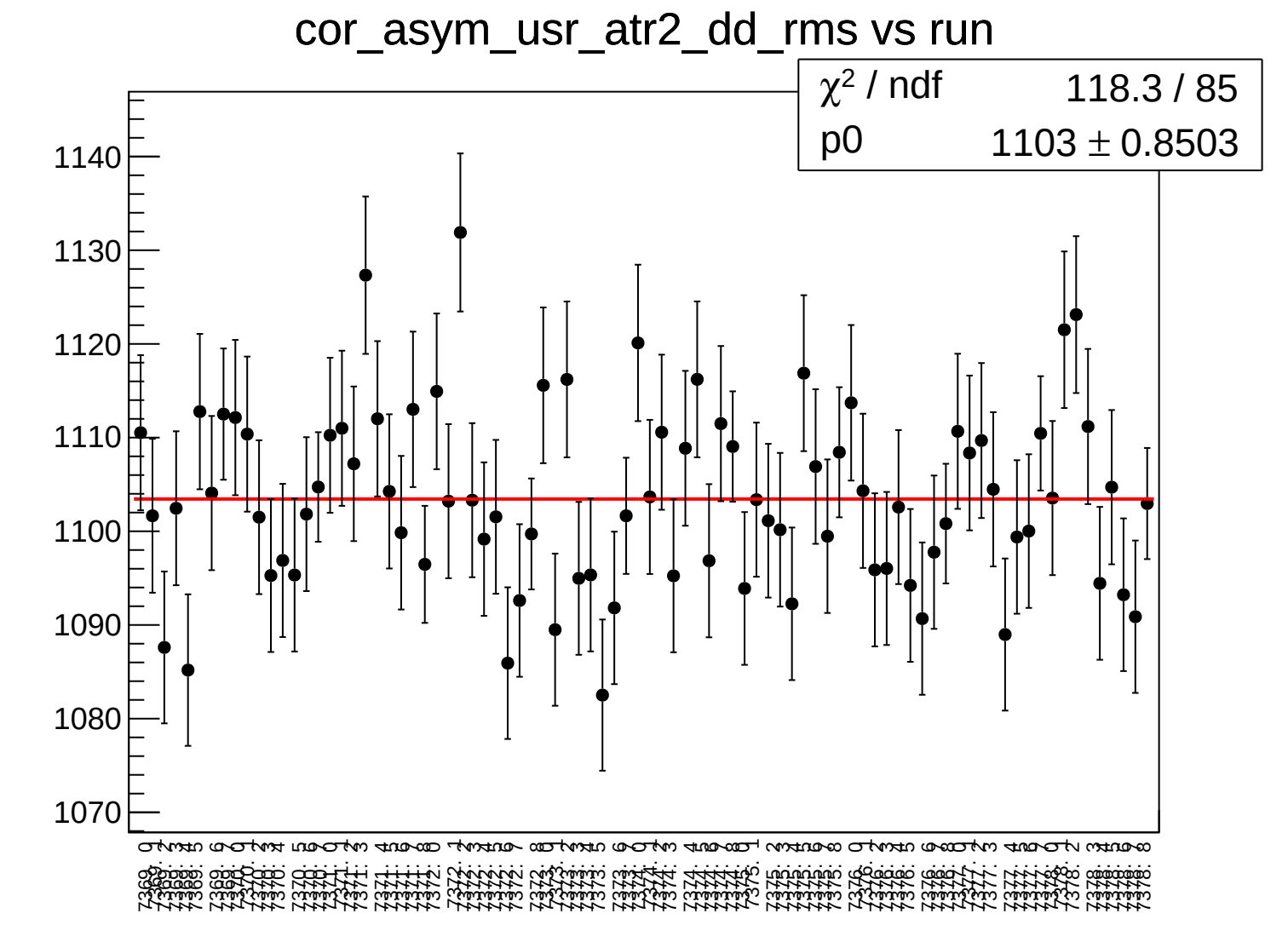

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 98.14 / 85
p0 5094 ± 4191
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −182.4
Std Dev 0
3
2
1
0
−1
−2
−3

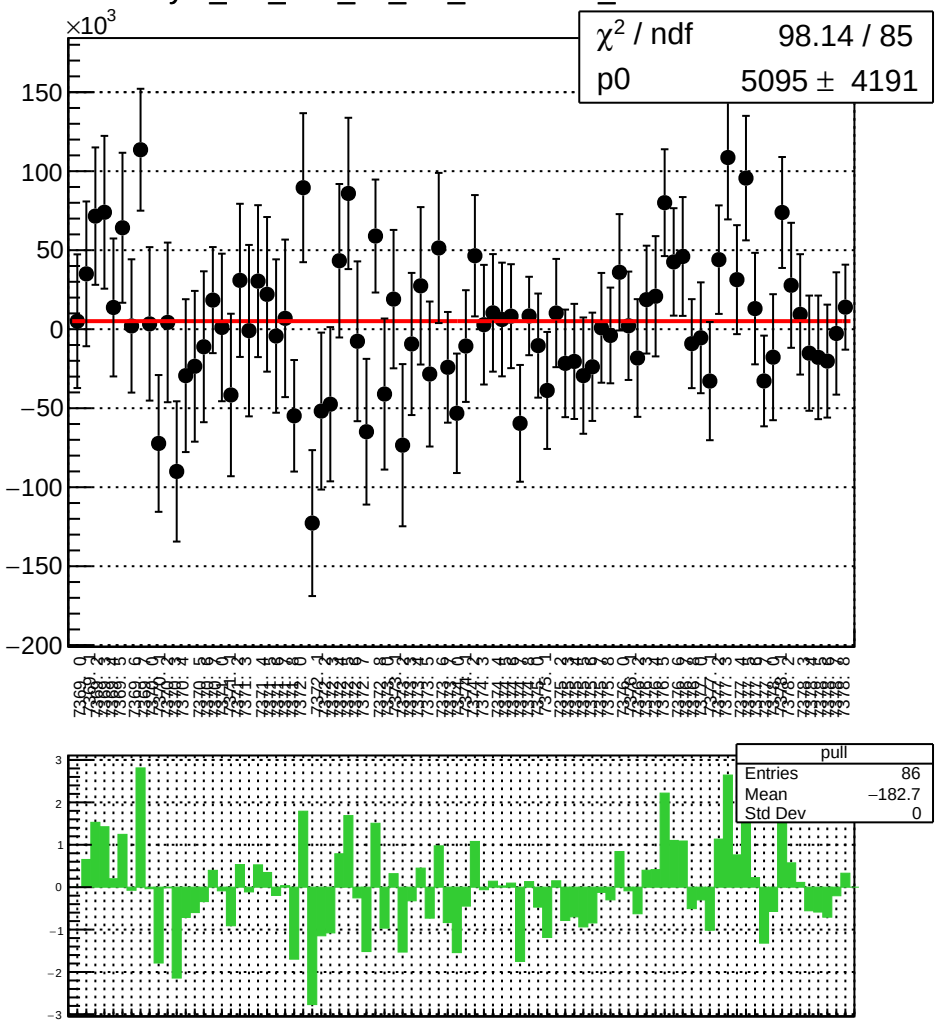

pull1D
Entries 86
Mean −0.005982
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

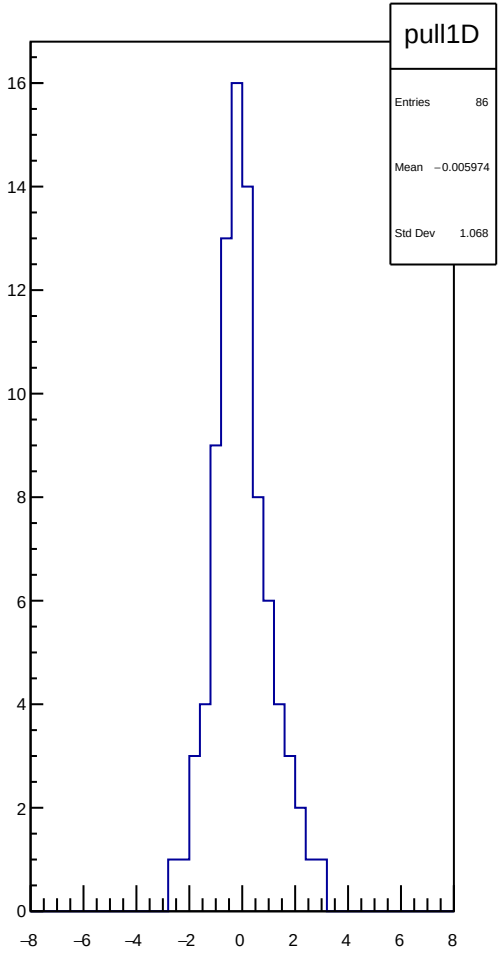

asym_usr_atr2_dd_reg_correction_rms vs run
χ^2 / ndf 3.28e+04 / 85
p0 3808 ± 2.964
5000
4500
4000
3500
3000

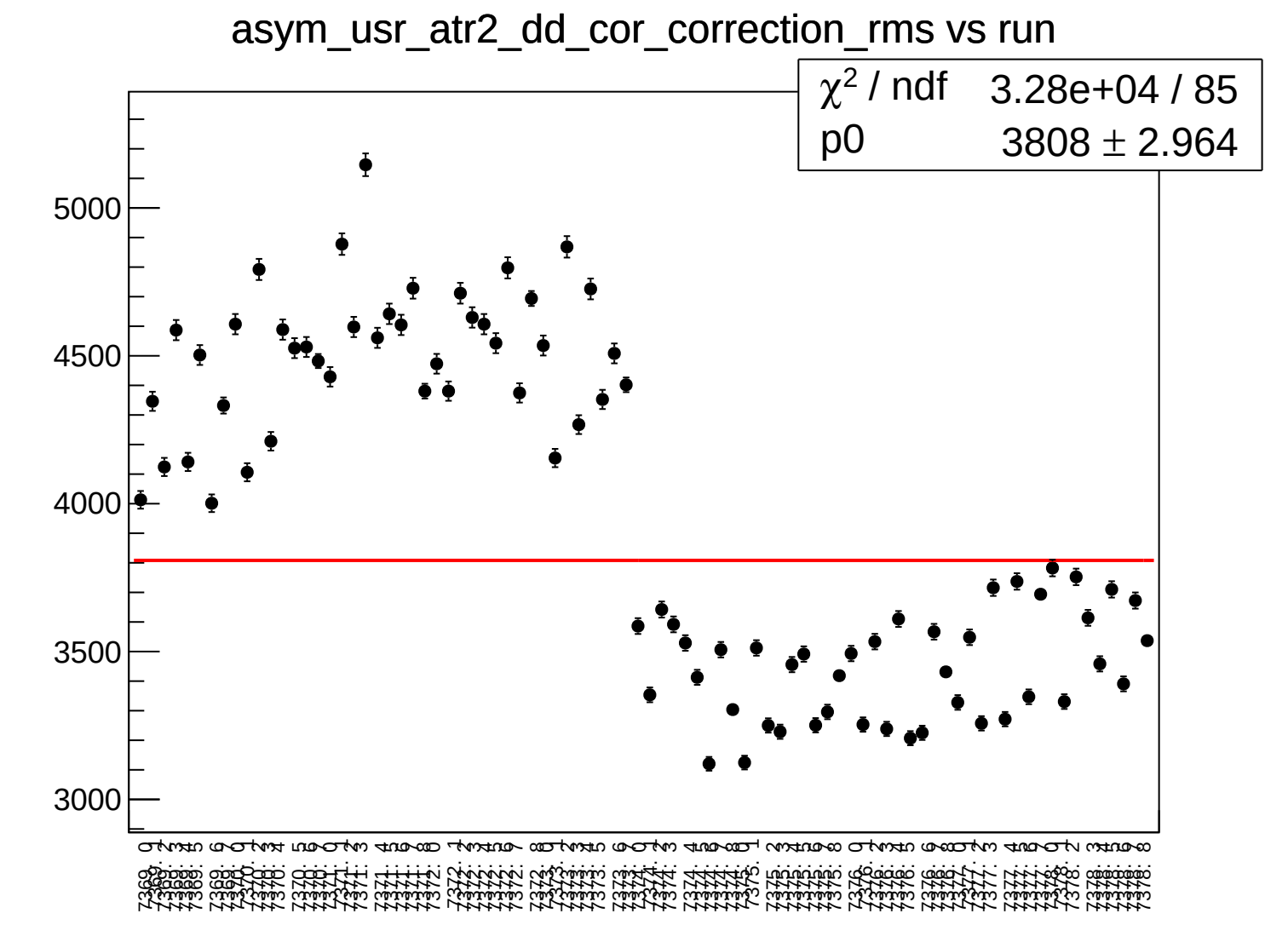

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 91.53 / 85
p0 1012 ± 1203
pull
Entries 86
Mean −152.6
Std Dev 0

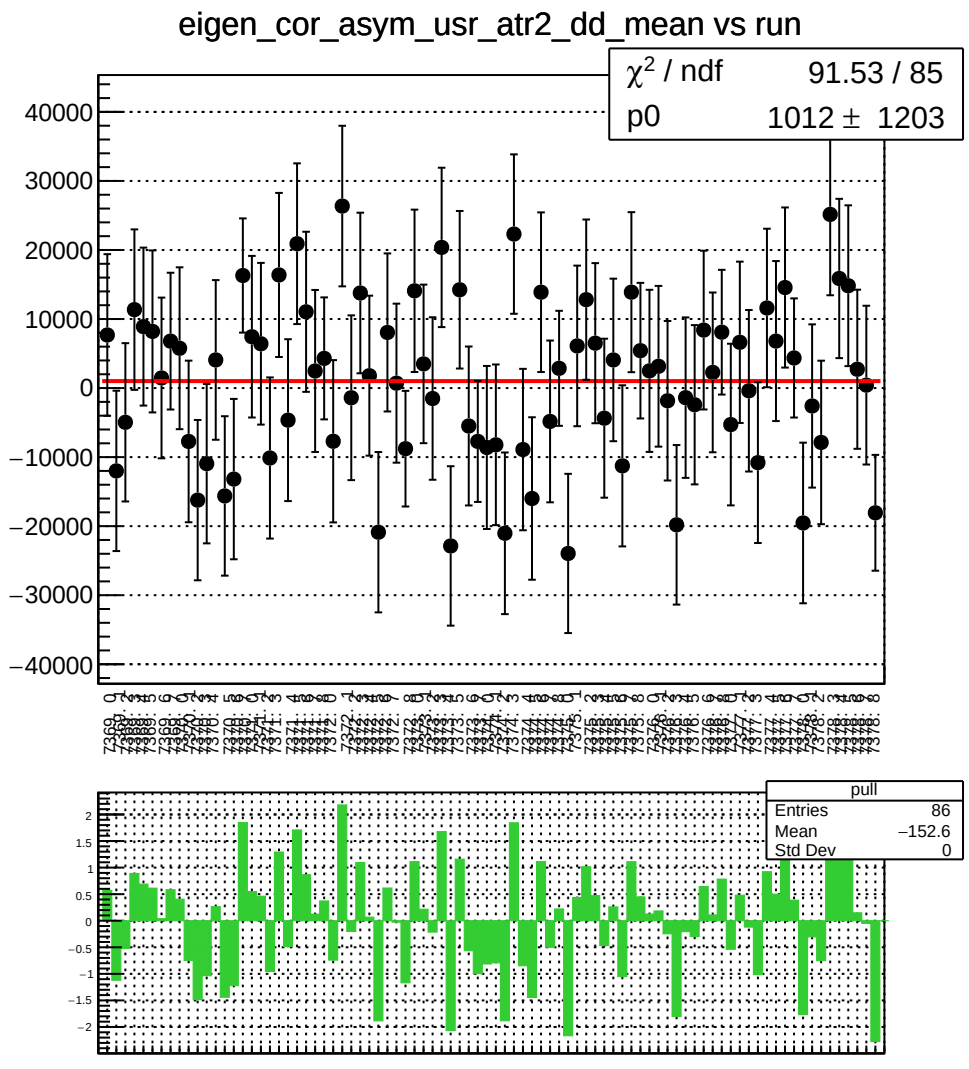

pull1D
Entries 86
Mean 0.001217
Std Dev 1.032

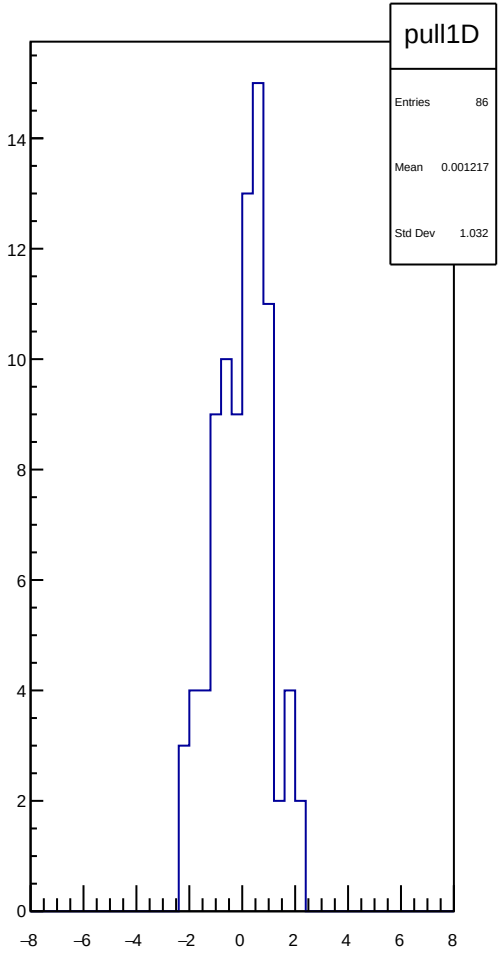

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 118.3 / 85
p0 1103 ± 0.8503
1140
1130
1120
1110
1100
1090
1080
1070

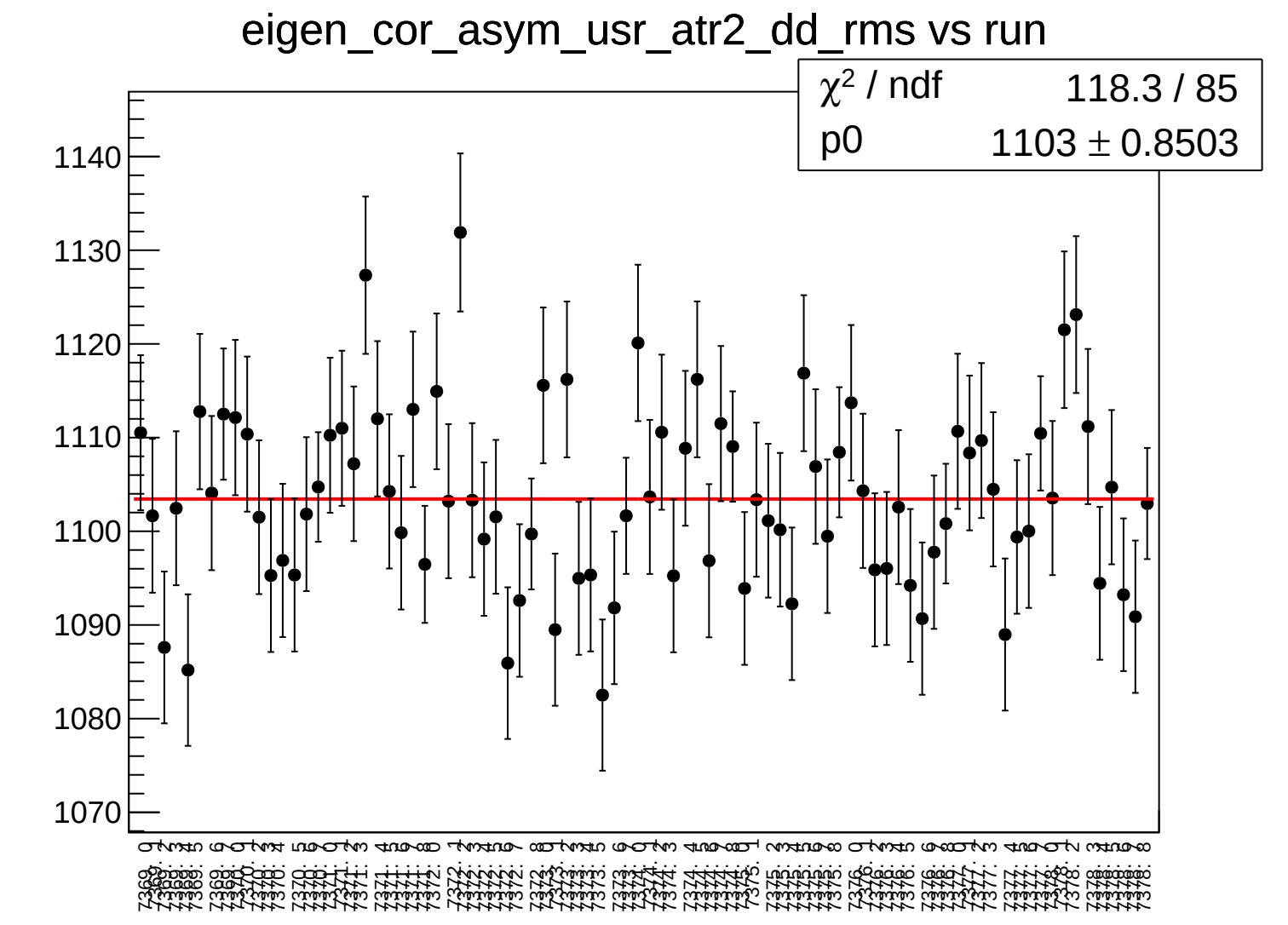

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 98.14 / 85
p0 5095 ± 4191
pull
Entries 86
Mean −182.7
Std Dev 0

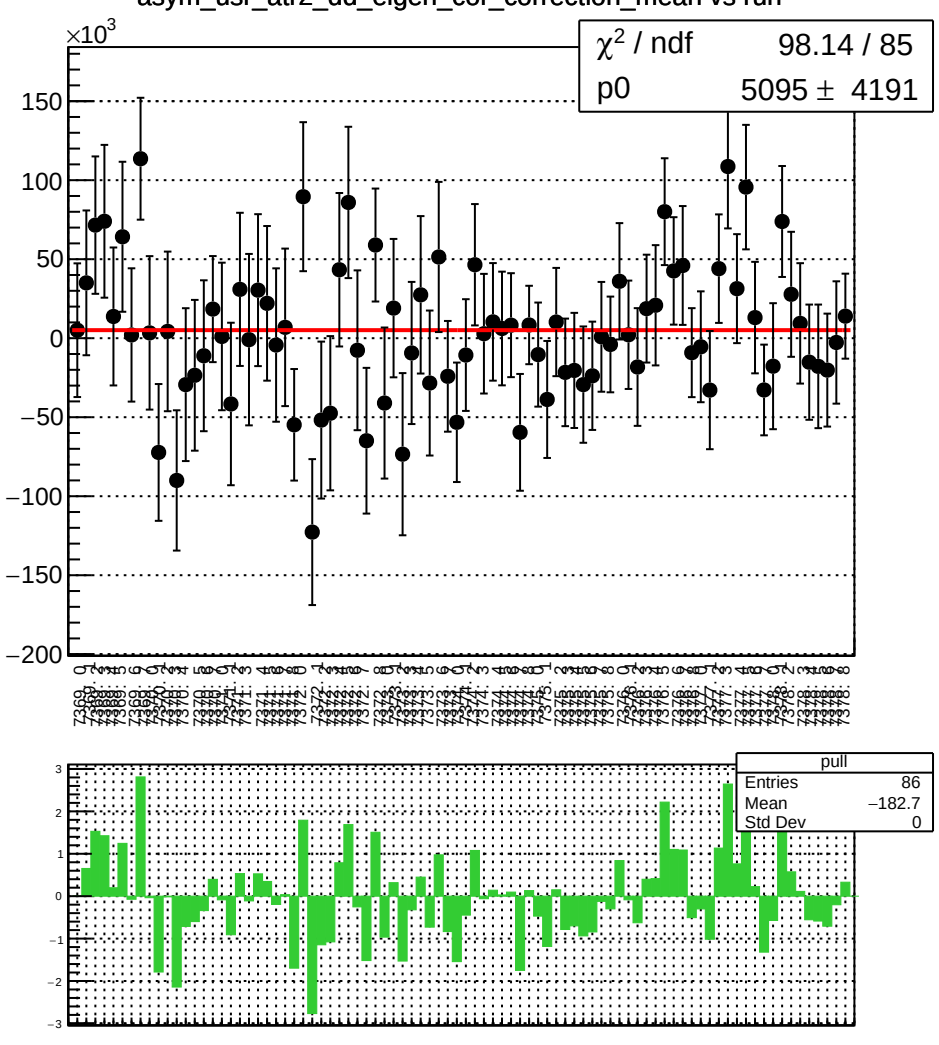

pull1D
Entries 86
Mean −0.005974
Std Dev 1.068

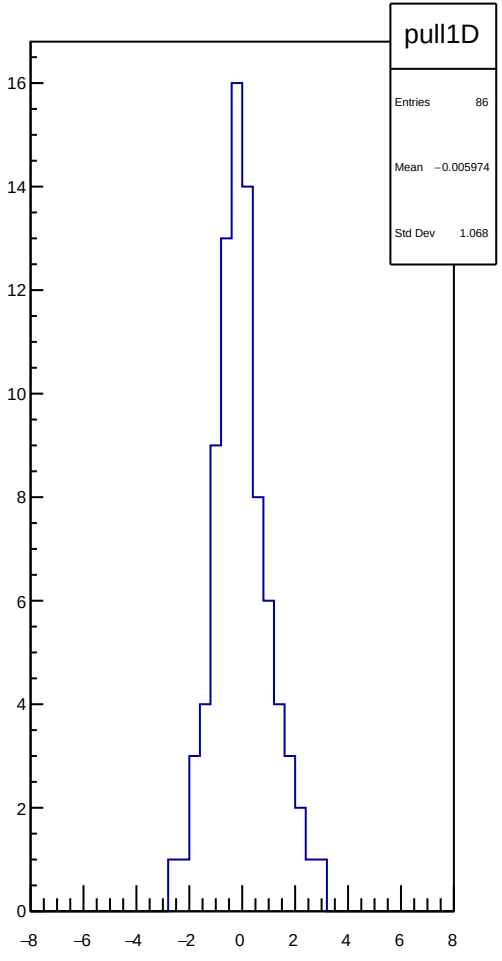

asym_usr_atr2_dd_cor_correction_rms vs run
χ^2 / ndf 3.28e+04 / 85
p0 3808 ± 2.964
5000
4500
4000
3500
3000

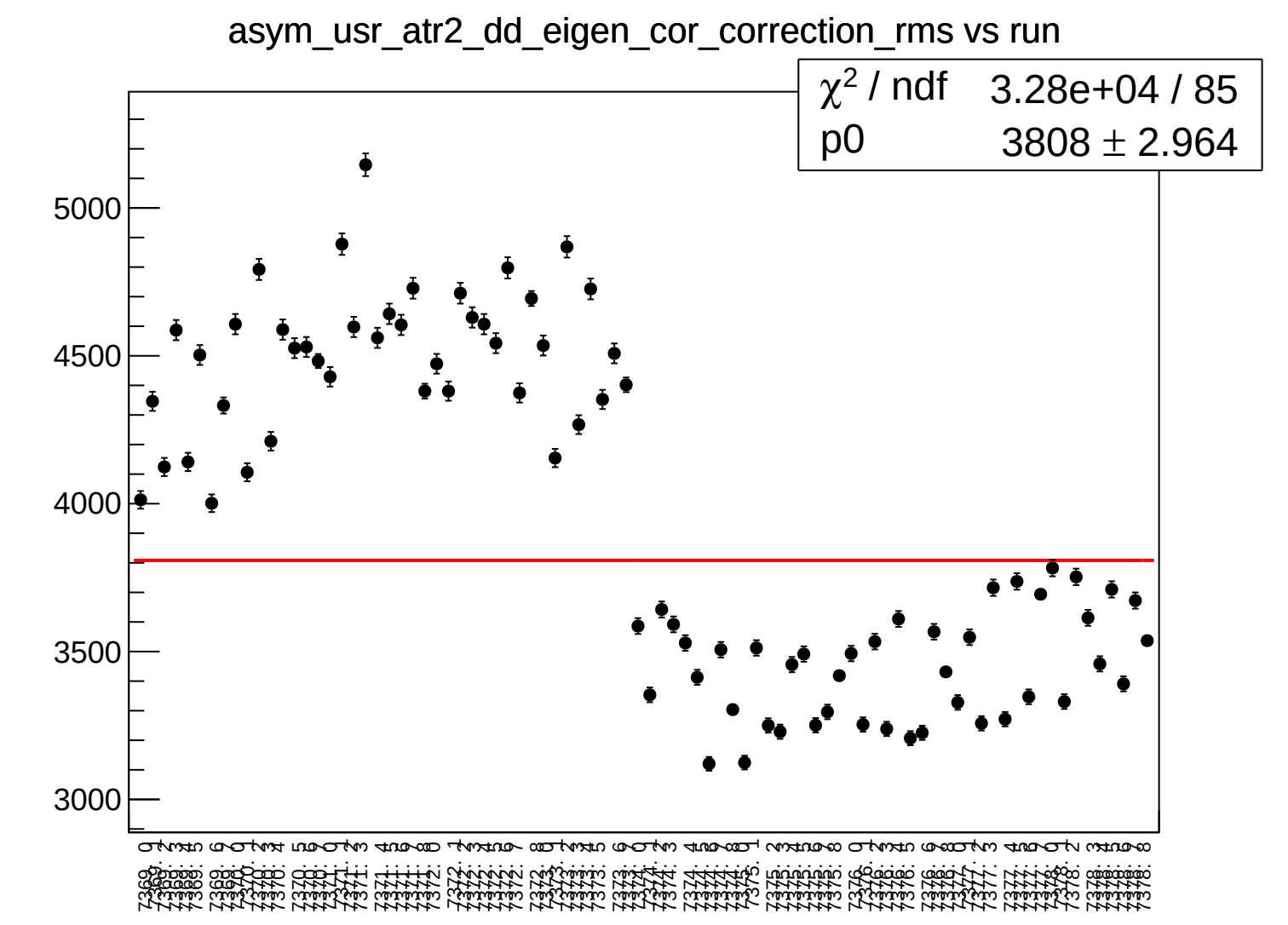

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 91.53 / 85
p0 1012 ± 1203
pull
Entries 86
Mean −152.6
Std Dev 0

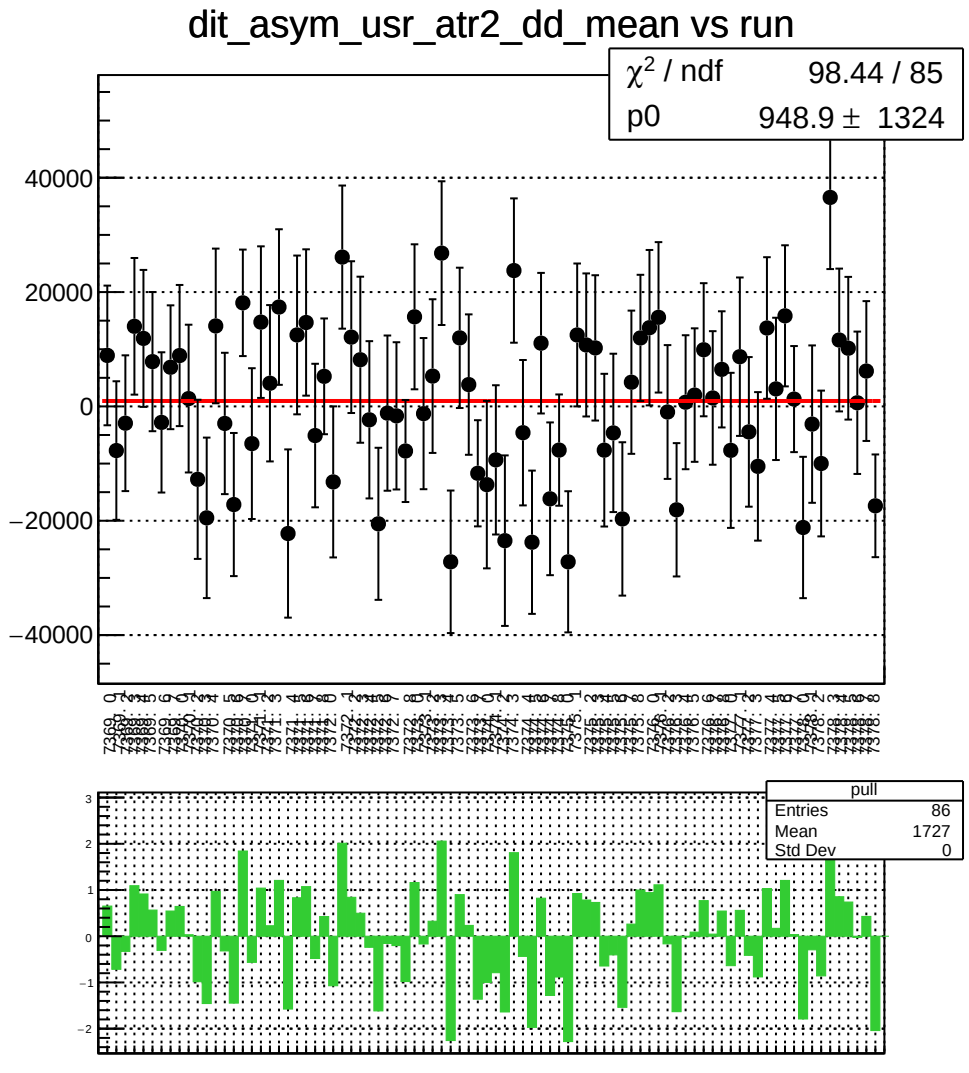

pull1D
Entries 86
Mean 0.001217
Std Dev 1.032

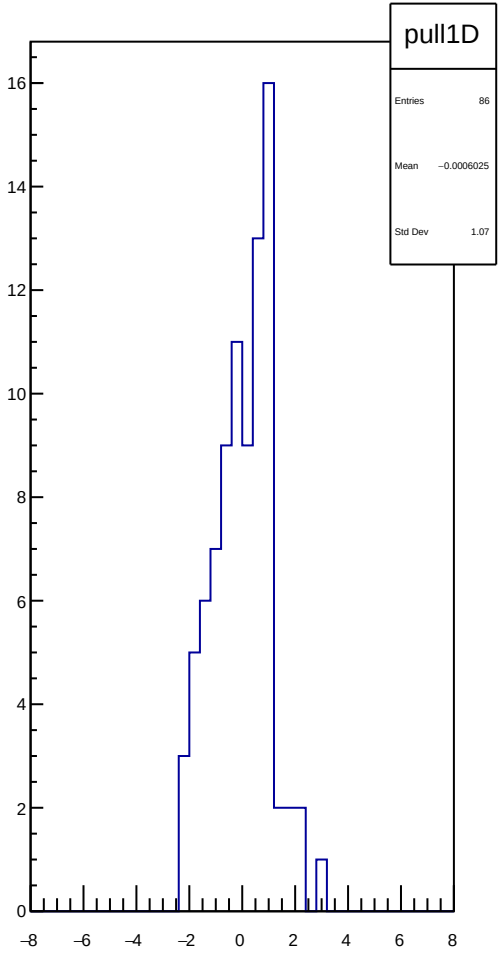

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 118.3 / 85
p0 1103 ± 0.8503
1140
1130
1120
1110
1100
1090
1080
1070

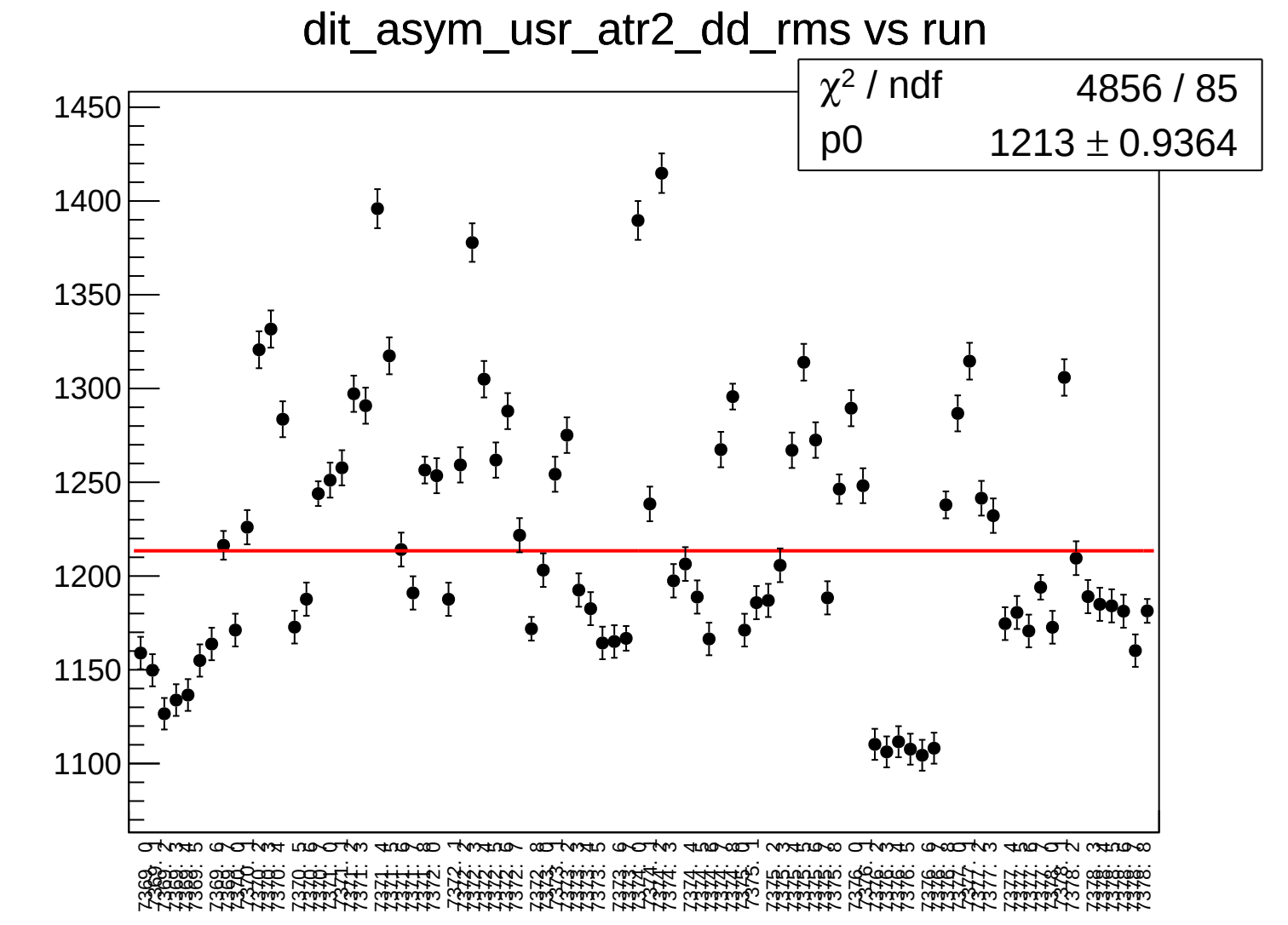

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 98.14 / 85
p0 5095 ± 4191
pull
Entries 86
Mean −182.7
Std Dev 0

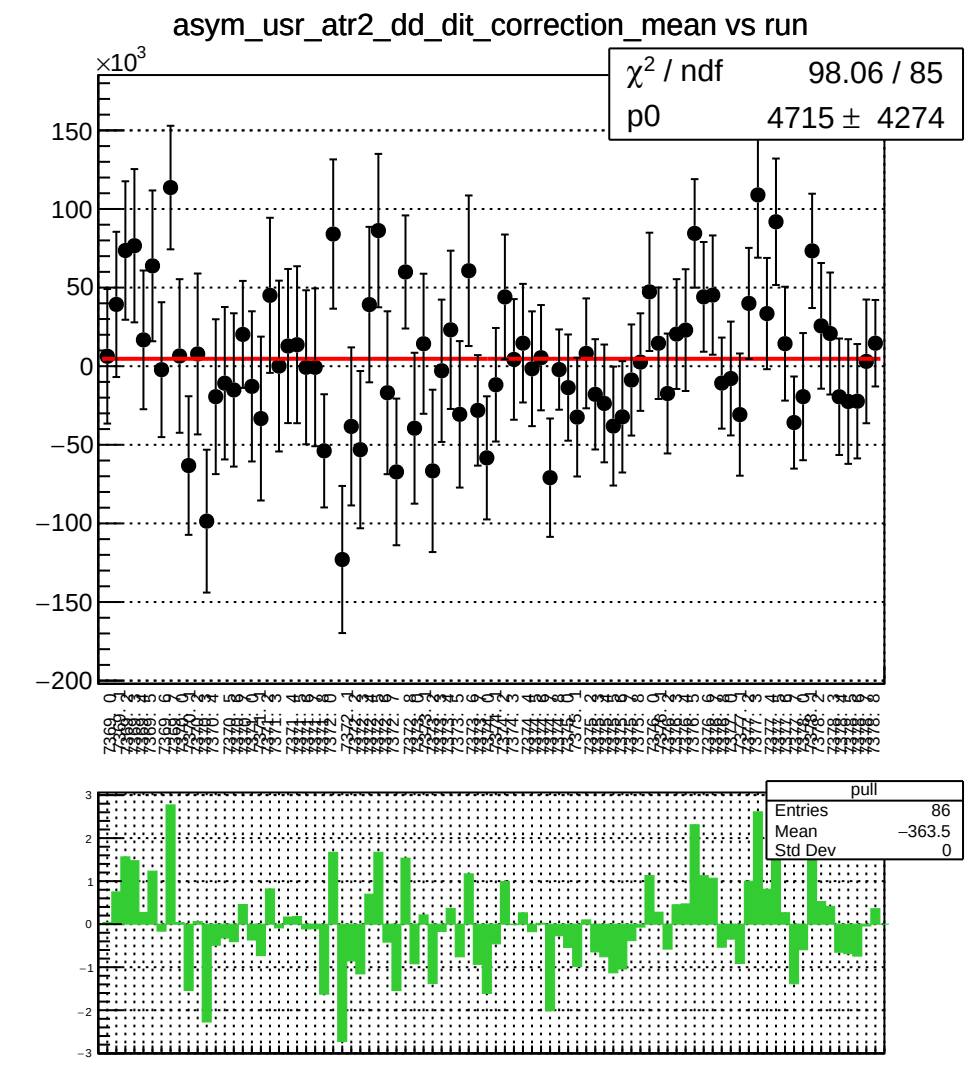

pull1D
Entries 86
Mean −0.005974
Std Dev 1.068

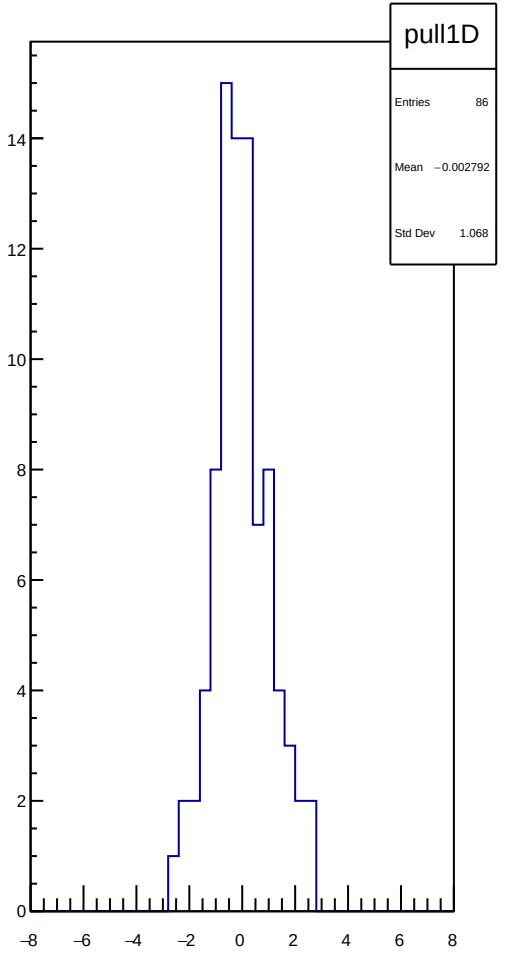

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.28e+04 / 85
p0 3808 ± 2.964
5000
4500
4000
3500
3000

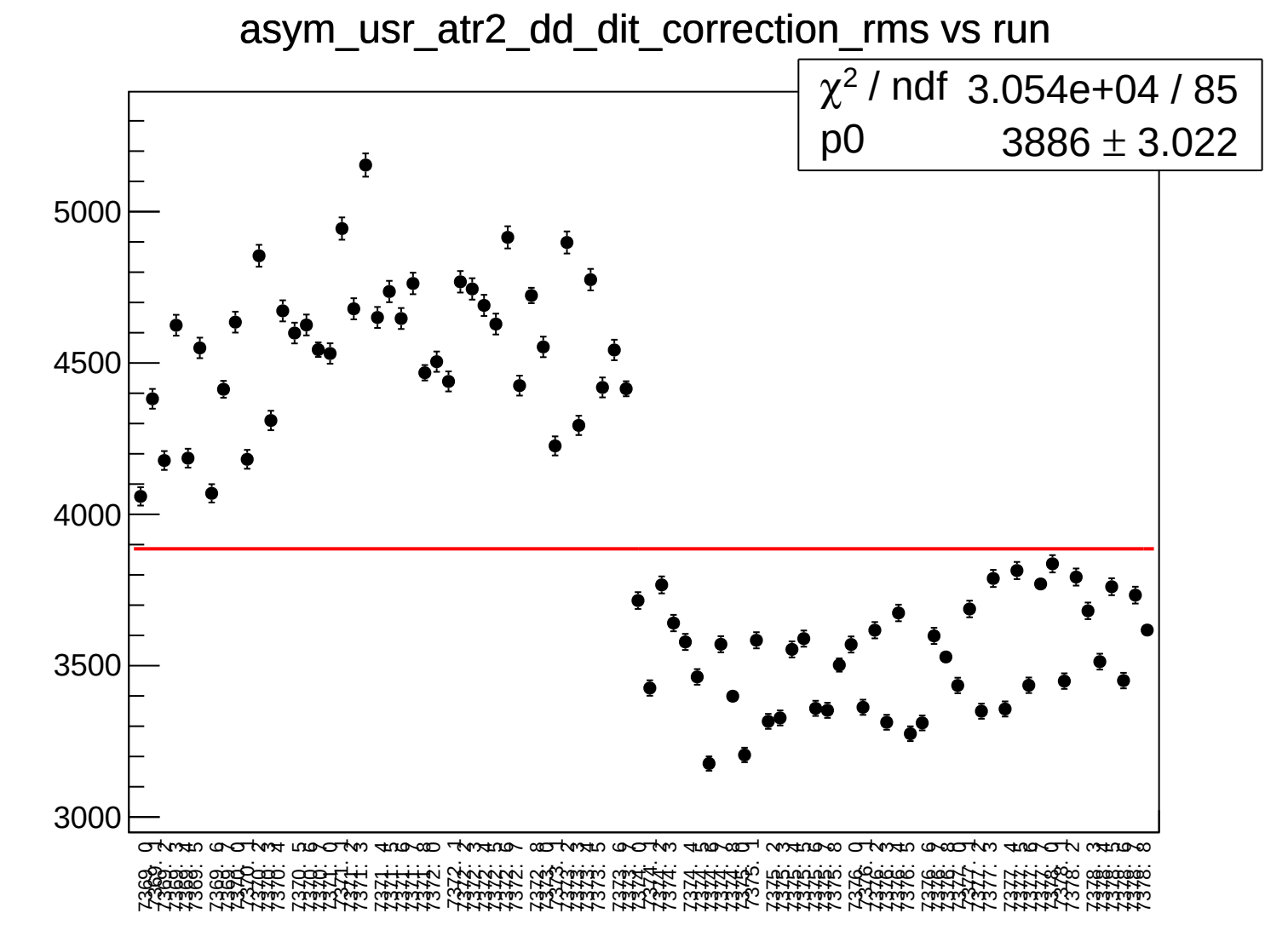

dit_asym_usr_atr2_dd_mean vs run
χ^2 / ndf 98.44 / 85
p0 948.9 ± 1324
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 1727
Std Dev 0
3
2
1
0
−1
−2

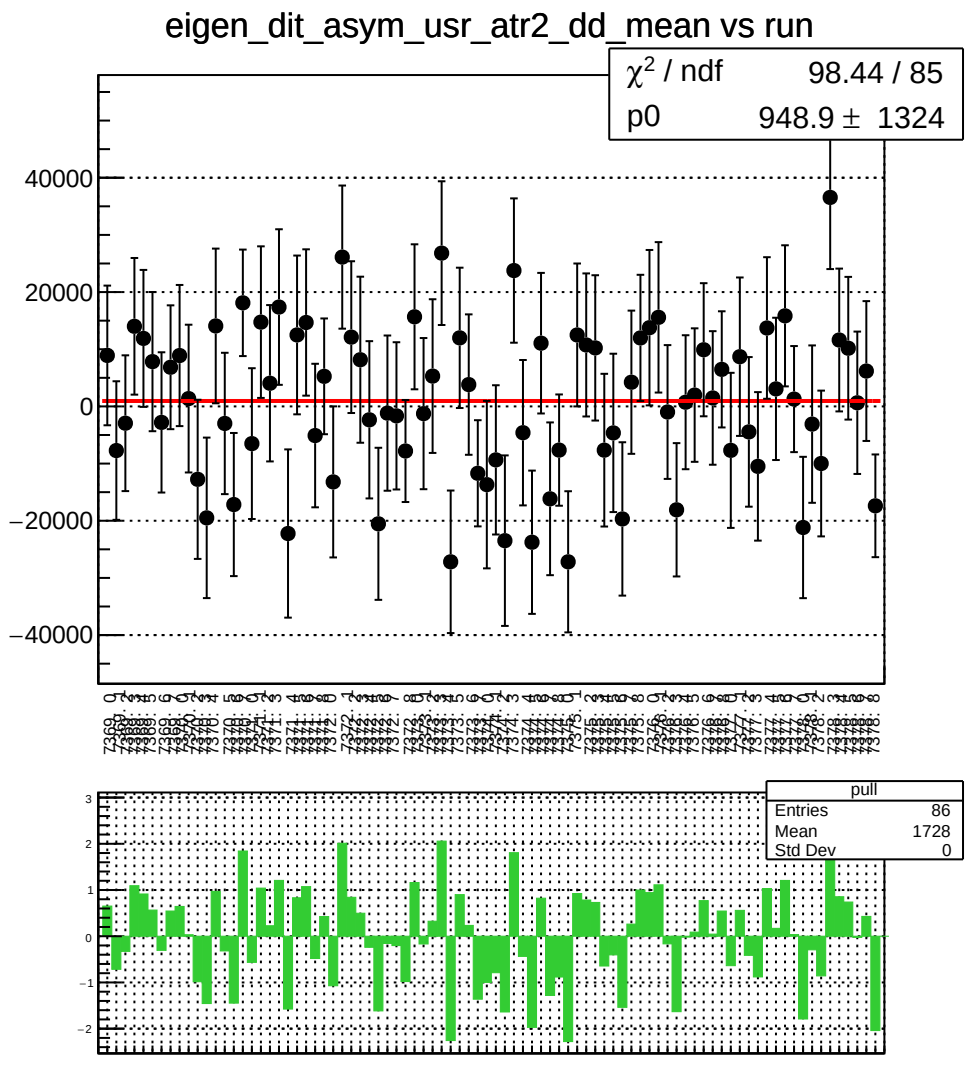

pull1D
Entries 86
Mean −0.0006025
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

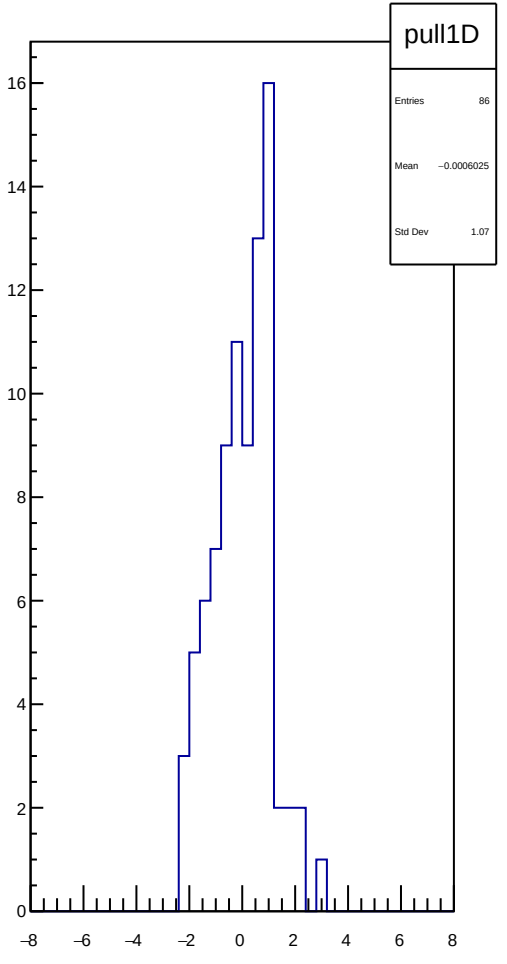

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 4856 / 85
p0 1213 ± 0.9364
1450
1400
1350
1300
1250
1200
1150
1100

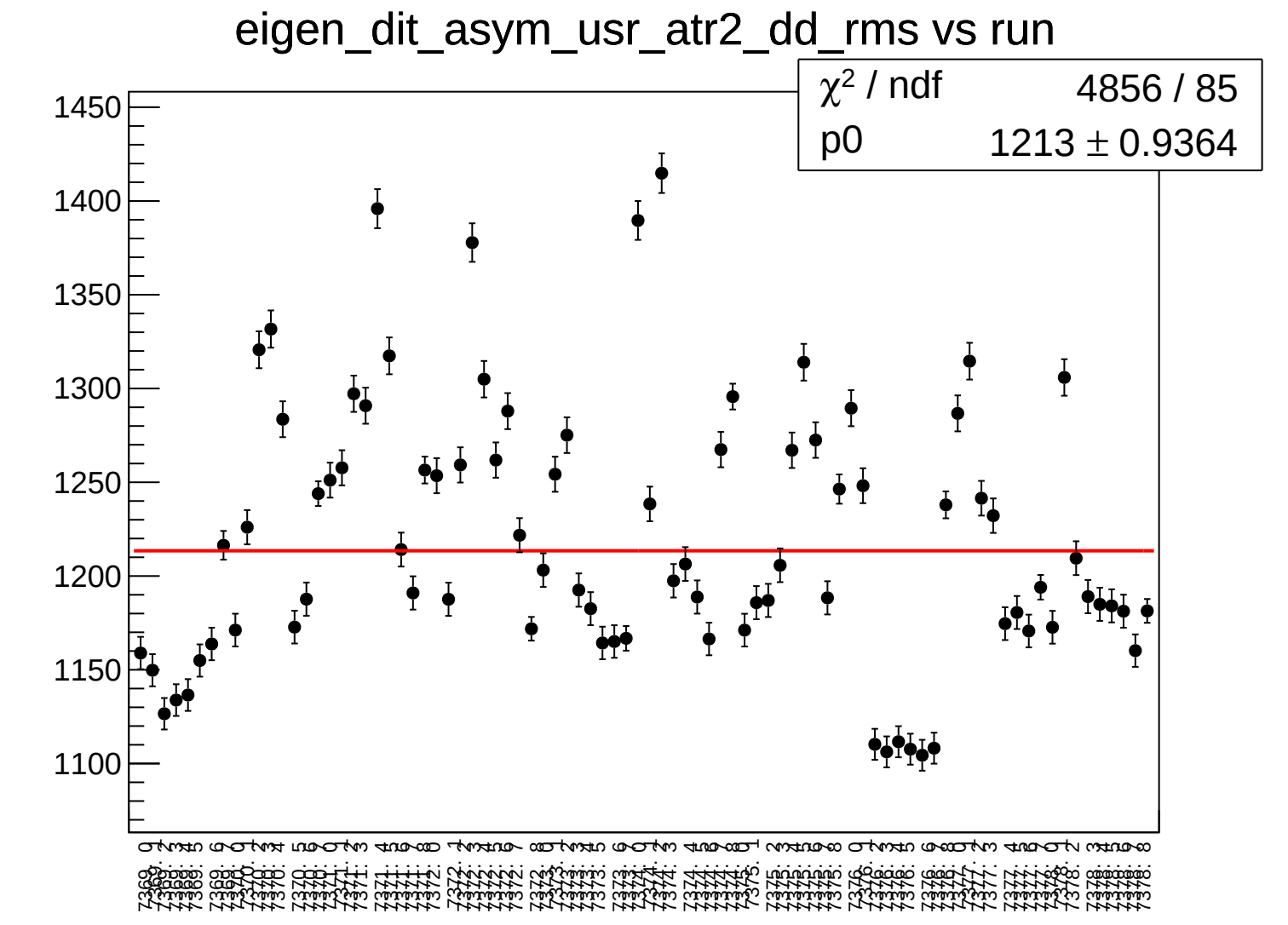

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 98.06 / 85
p0 4715 ± 4274
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −363.5
Std Dev 0
3
2
1
0
−1
−2
−3

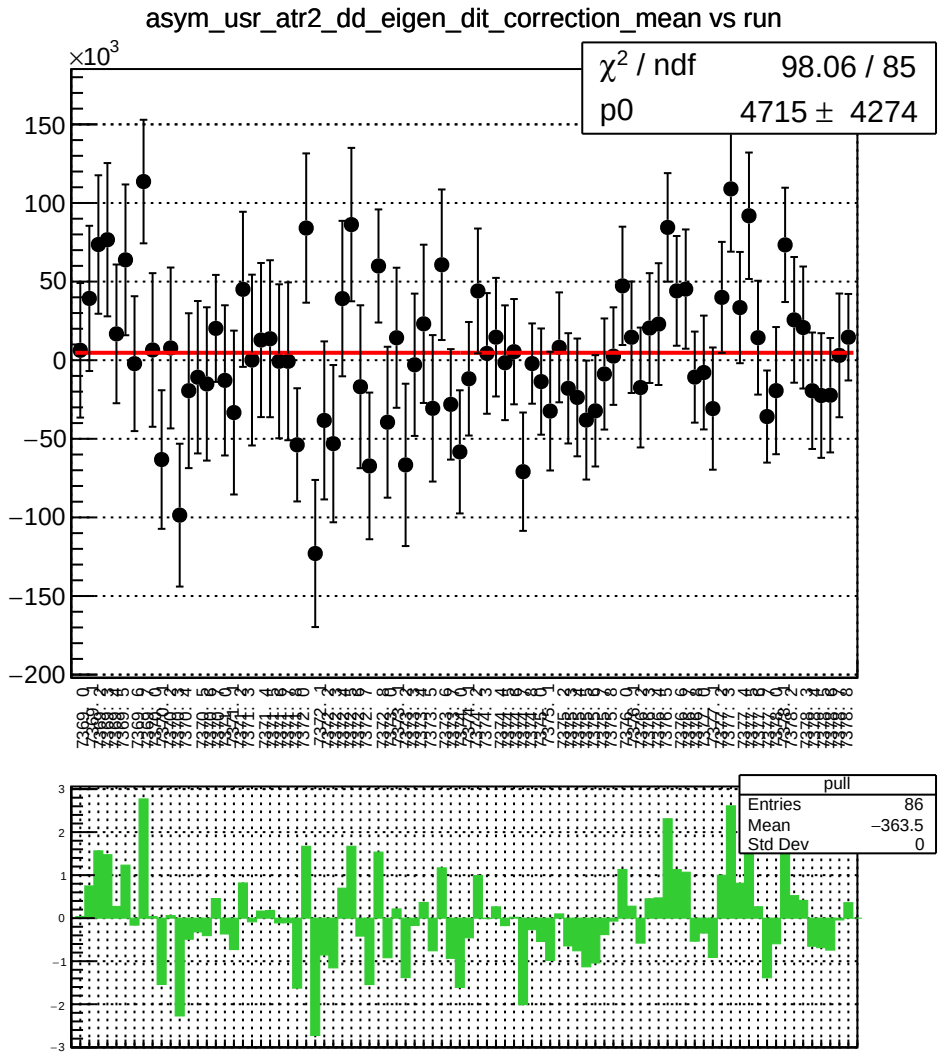

pull1D
Entries 86
Mean −0.002792
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

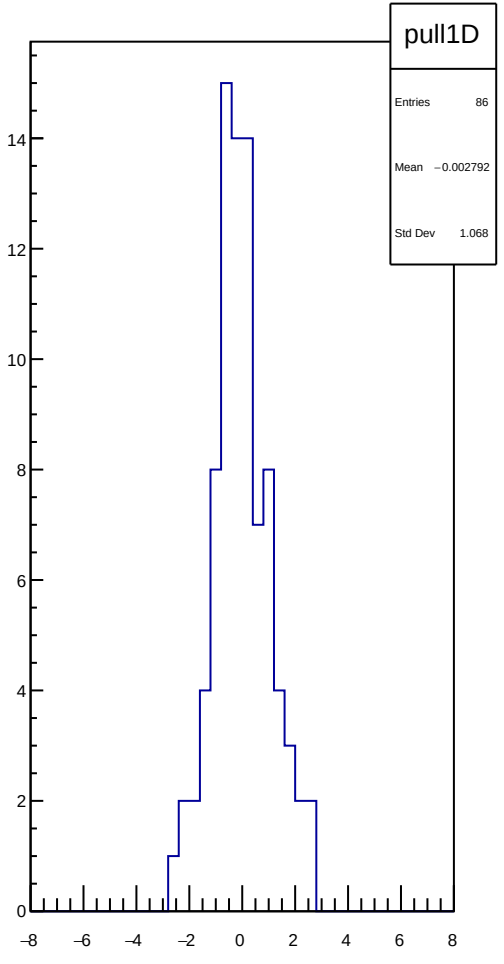

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 3.054e+04 / 85
p0 3886 ± 3.022
5000
4500
4000
3500
3000

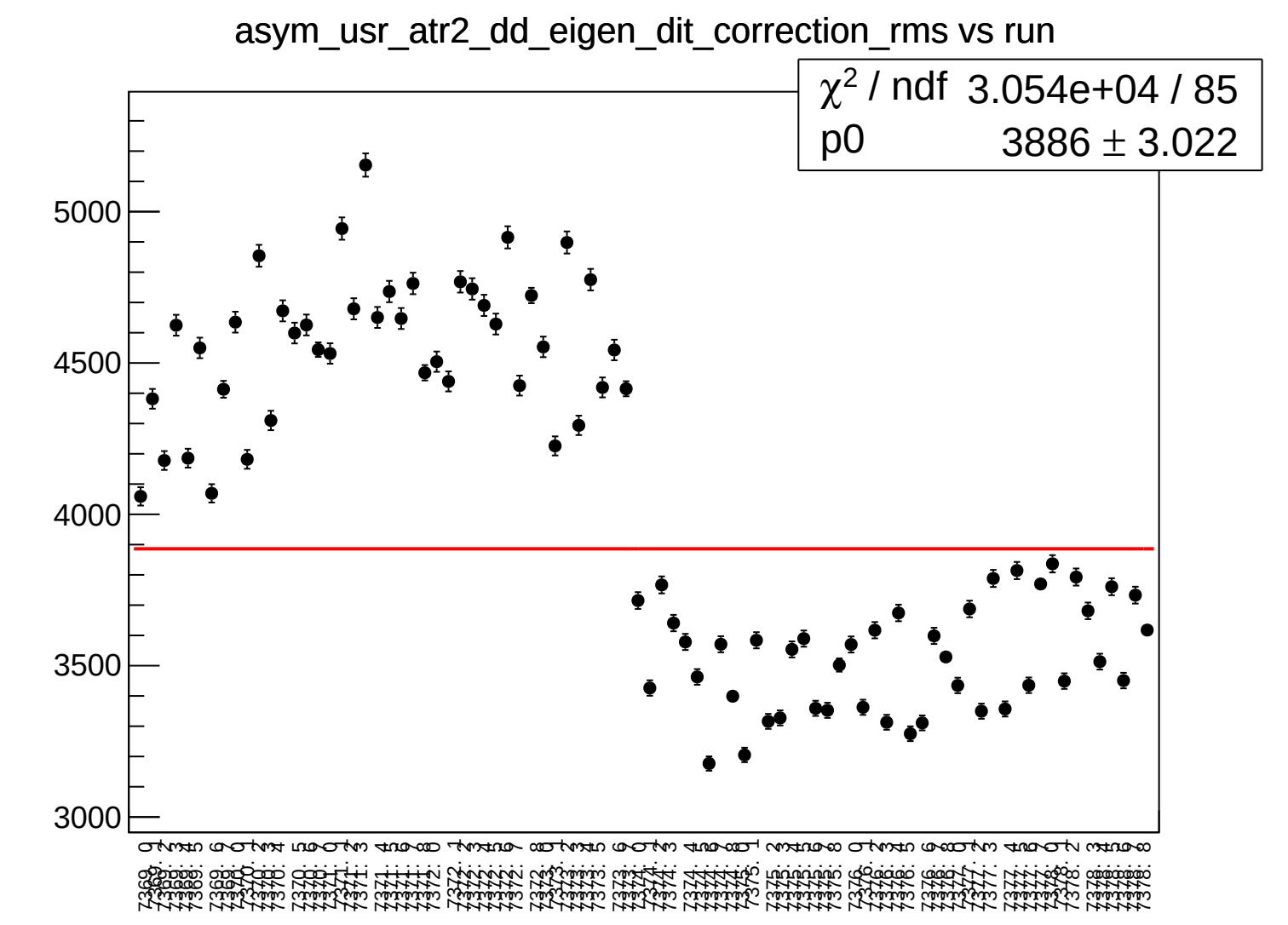

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 98.44 / 85
p0 948.9 ± 1324
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 1728
Std Dev 0
3
2
1
0
−1
−2

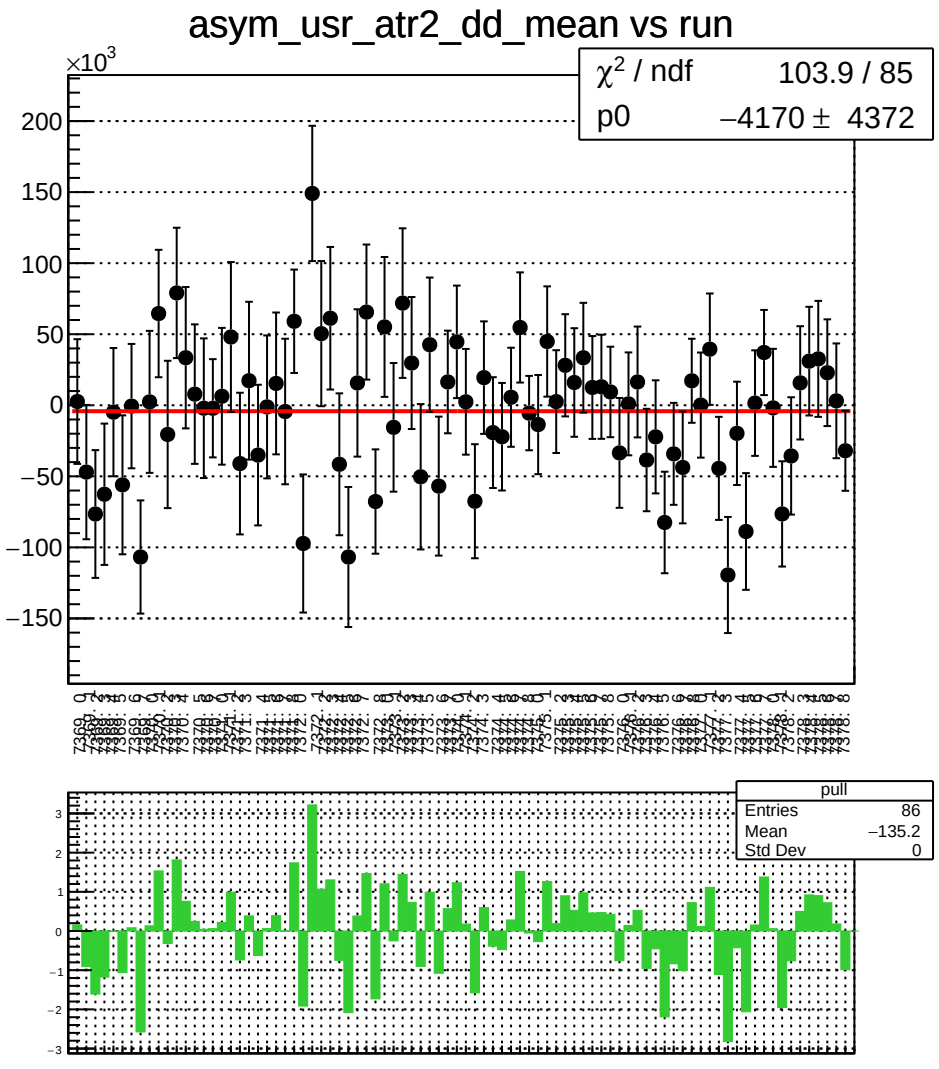

pull1D
Entries 86
Mean −0.0006025
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

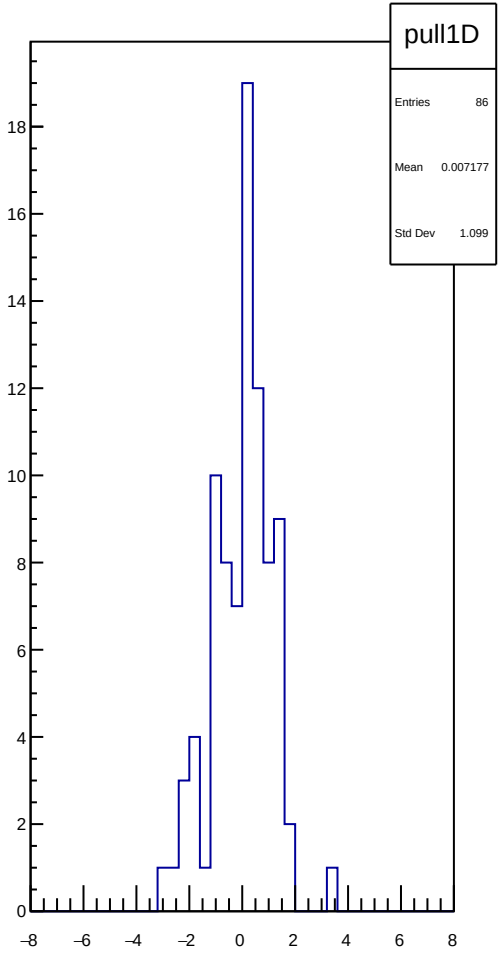

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 4856 / 85
p0 1213 ± 0.9364
1450
1400
1350
1300
1250
1200
1150
1100

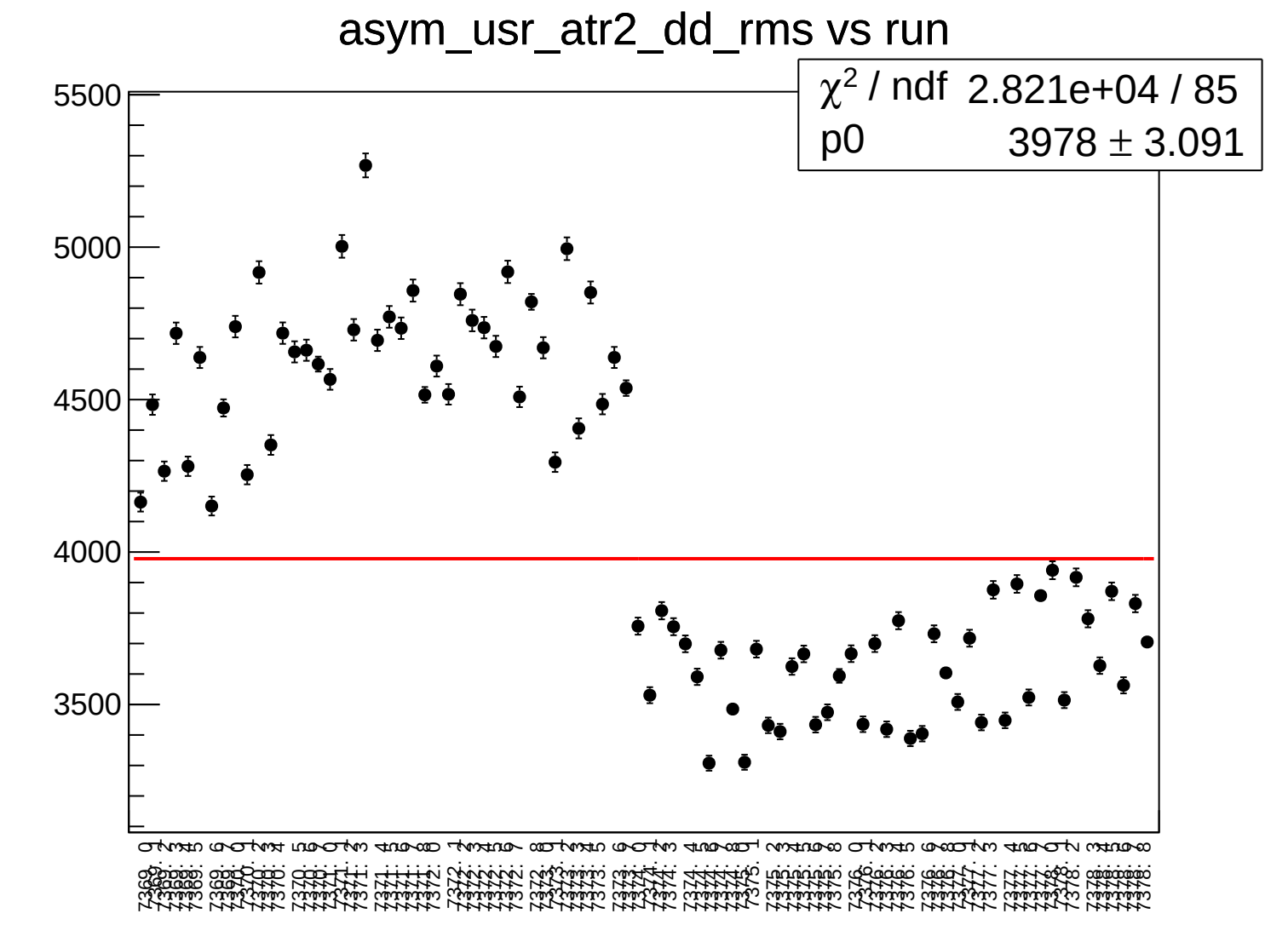

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.06 / 85
p0 4715 ± 4274
pull
Entries 86
Mean −363.5
Std Dev 0

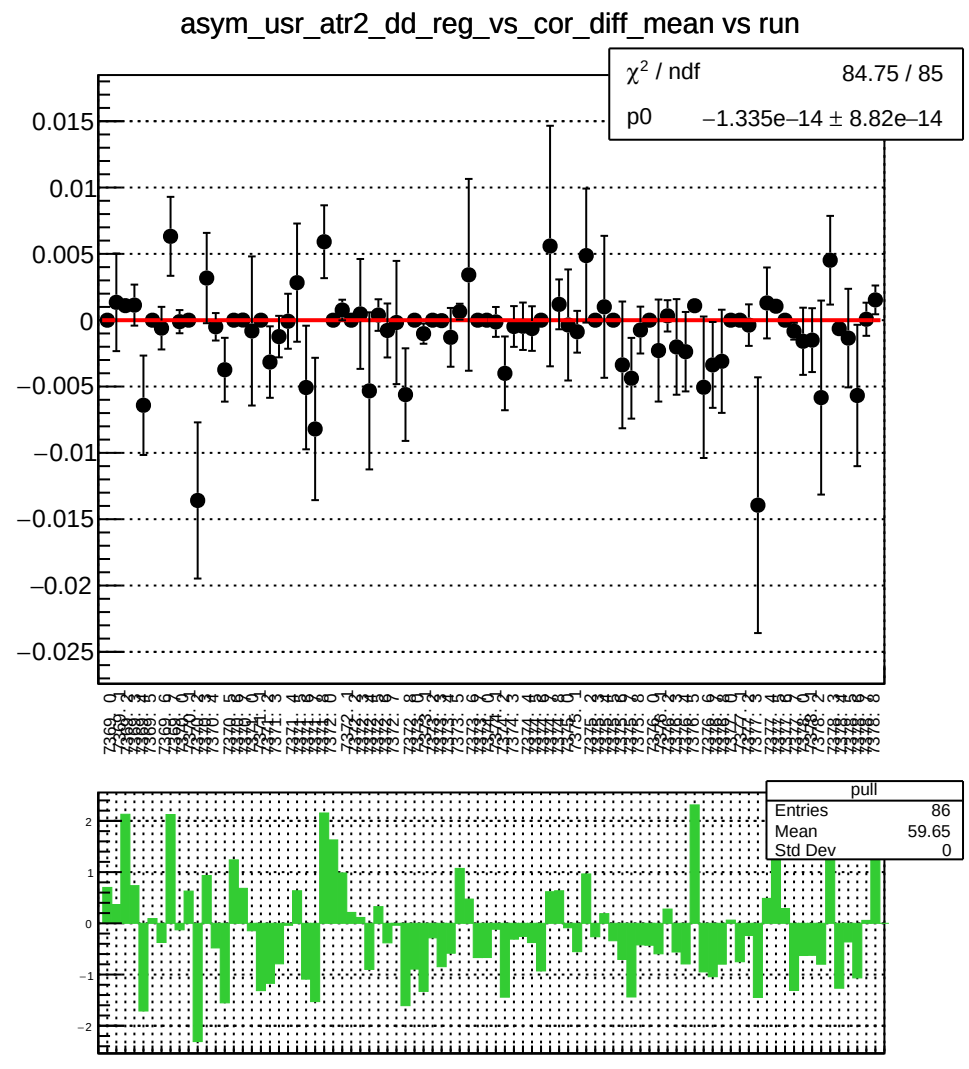

pull1D
Entries 86
Mean −0.002792
Std Dev 1.068

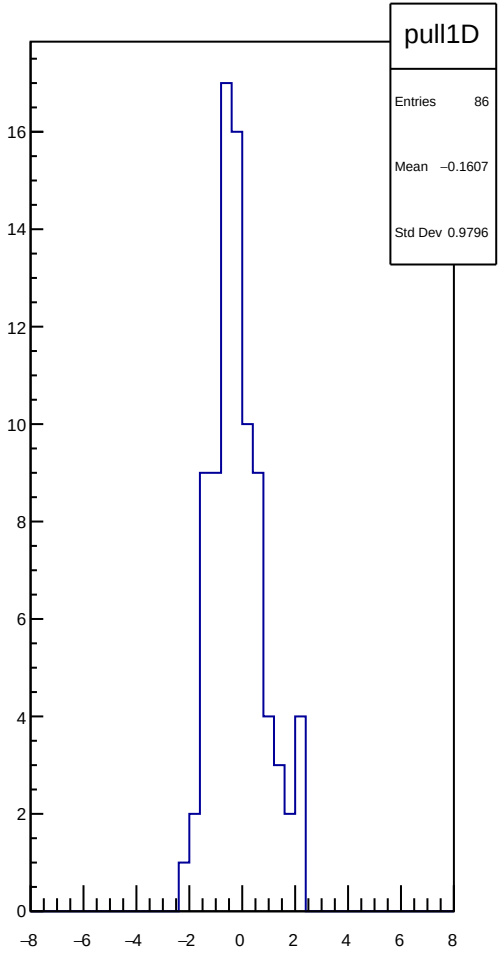

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3.054e+04 / 85
p0 3886 ± 3.022
5000
4500
4000
3500
3000

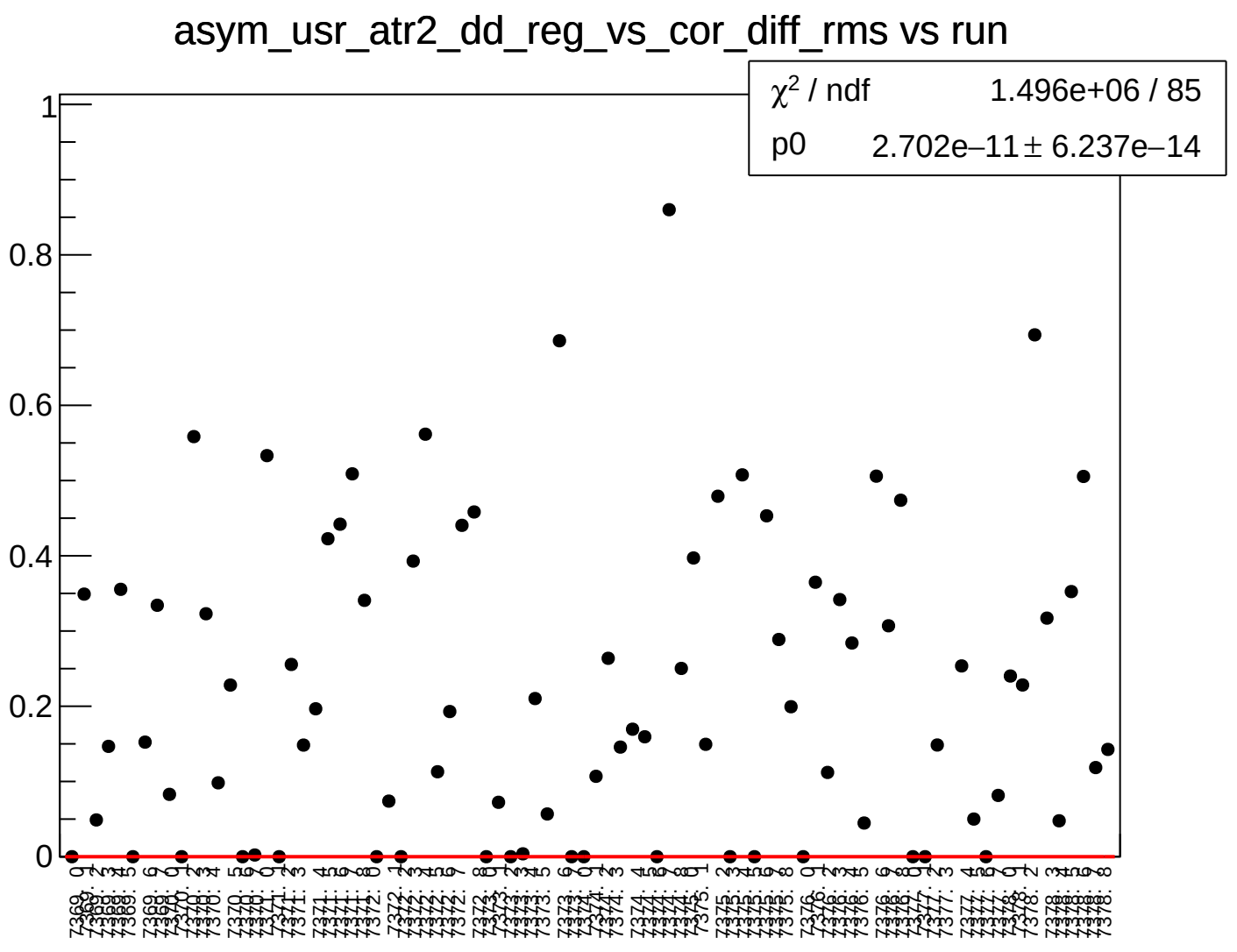

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 103.9 / 85
p0 −4170 ± 4372
pull
Entries 86
Mean −135.2
Std Dev 0

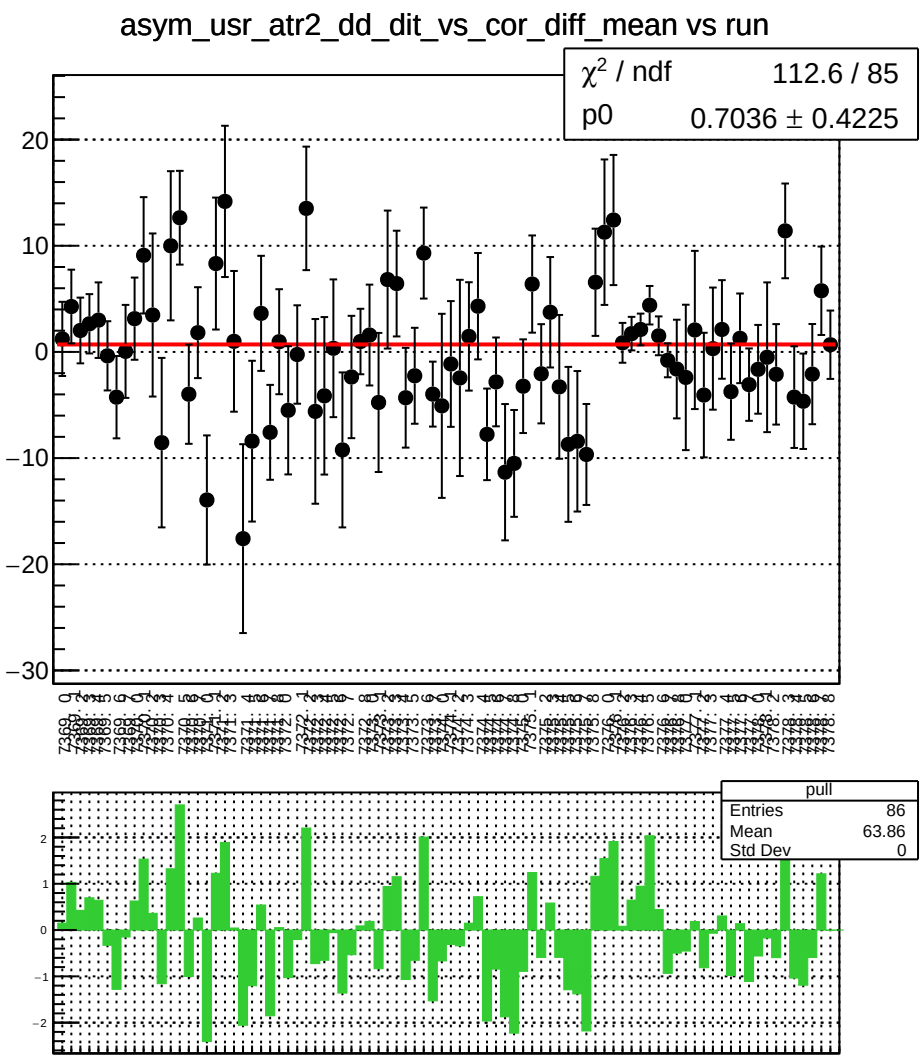

pull1D
Entries 86
Mean 0.007177
Std Dev 1.099

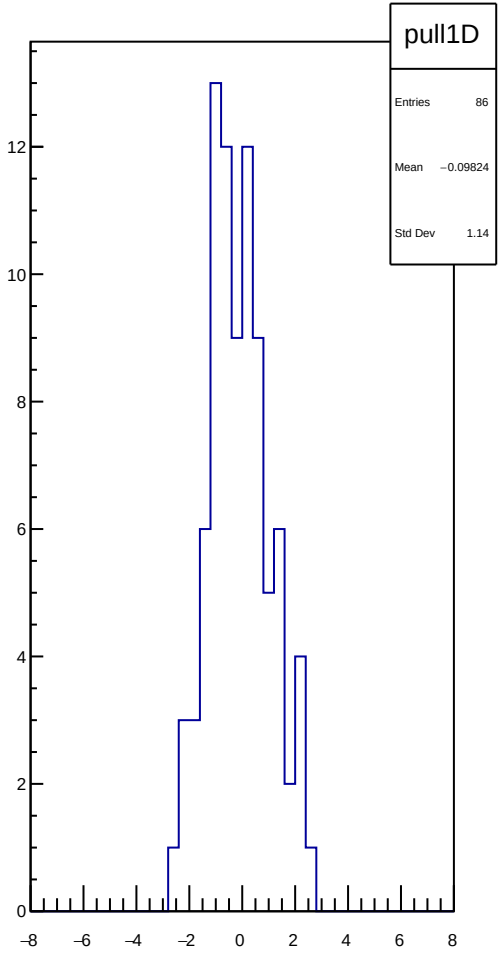

asym_usr_atr2_dd_rms vs run
χ² / ndf 2.821e+04 / 85
p0 3978 ± 3.091
5500
5000
4500
4000
3500

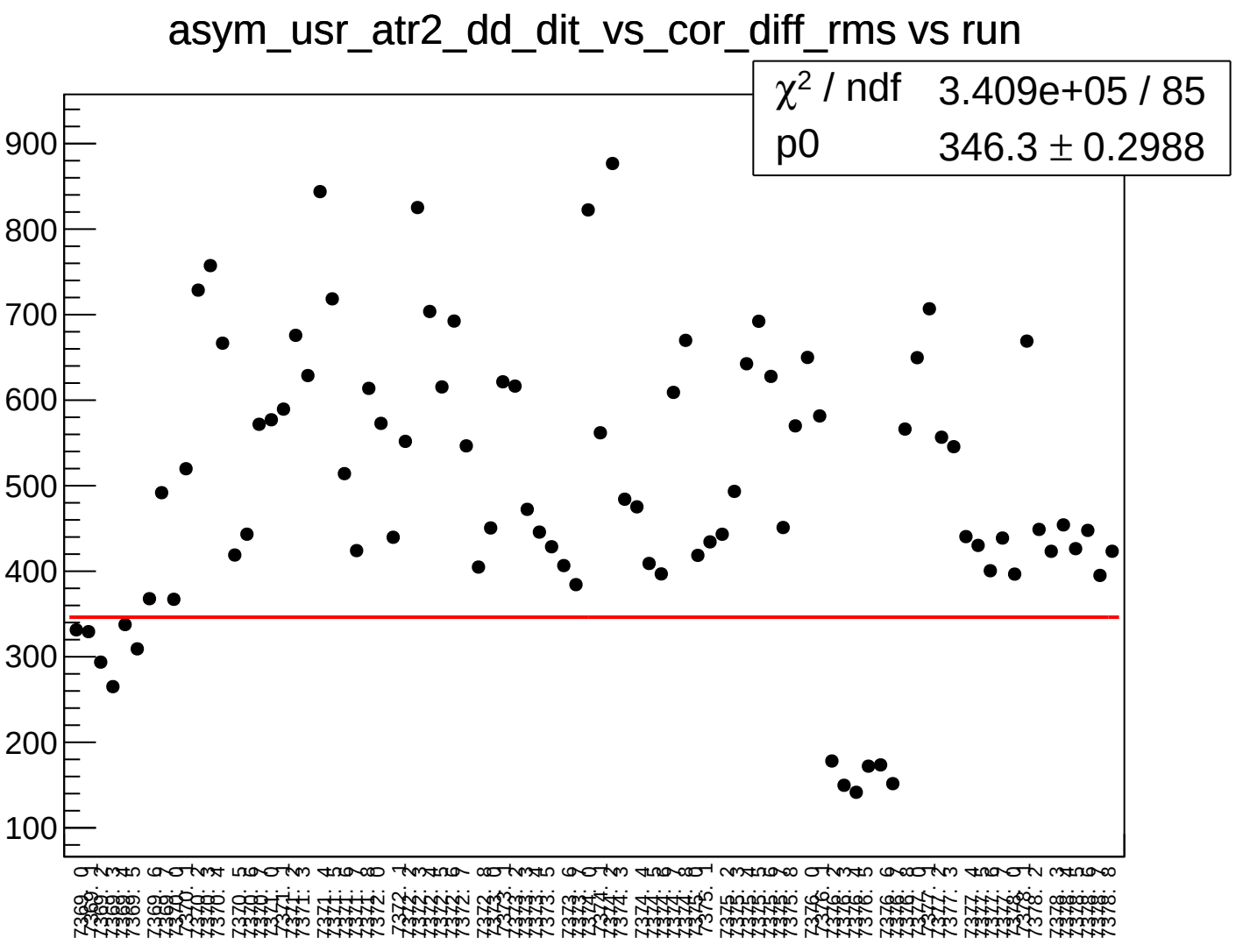

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.75 / 85
p0 −1.335e−14 ± 8.82e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 86
Mean 59.65
Std Dev 0
2
1
0
−1
−2

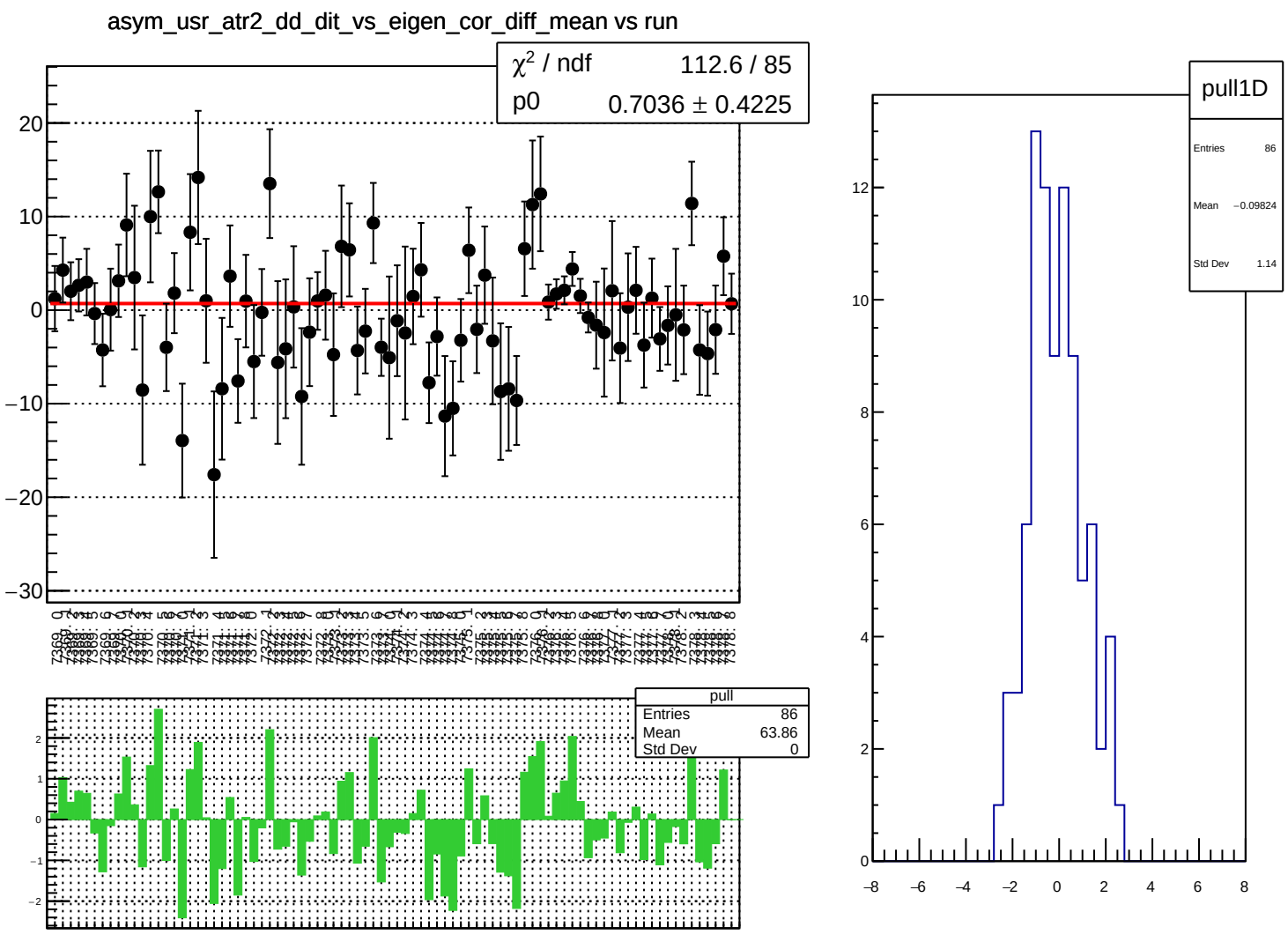

pull1D
Entries 86
Mean −0.1607
Std Dev 0.9796
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

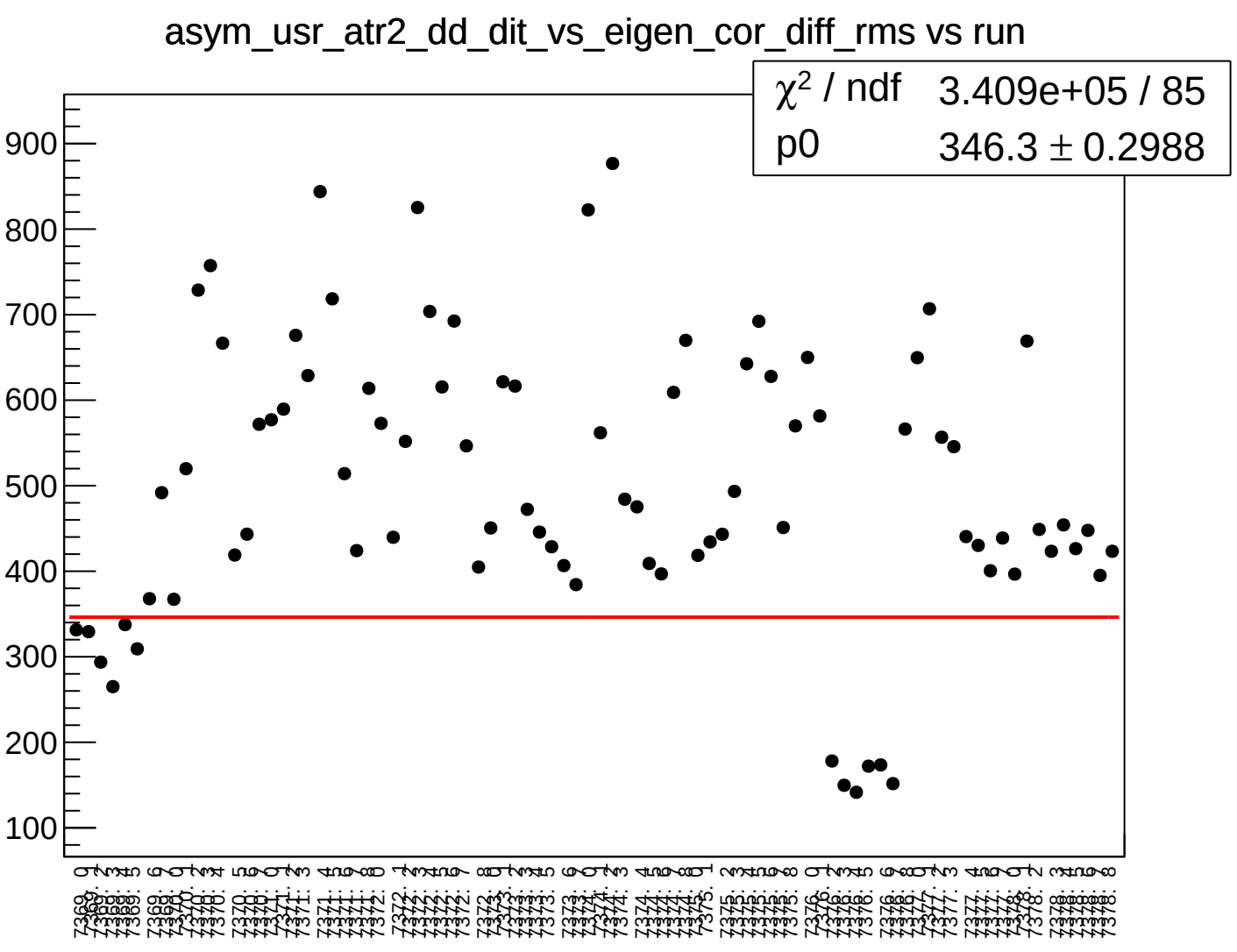

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.496e+06 / 85
p0 2.702e−11 ± 6.237e−14
1
0.8
0.6
0.4
0.2
0

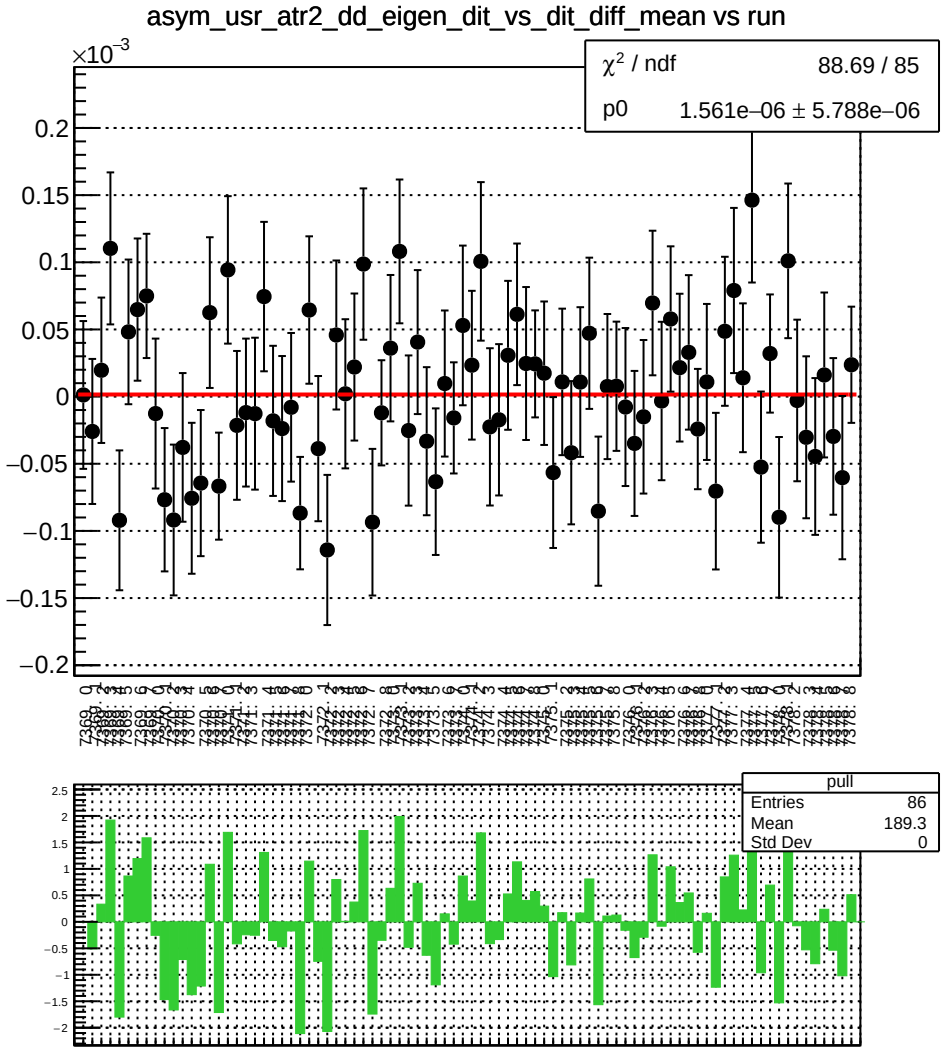

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 85
p0 0.7036 ± 0.4225
pull
Entries 86
Mean 63.86
Std Dev 0

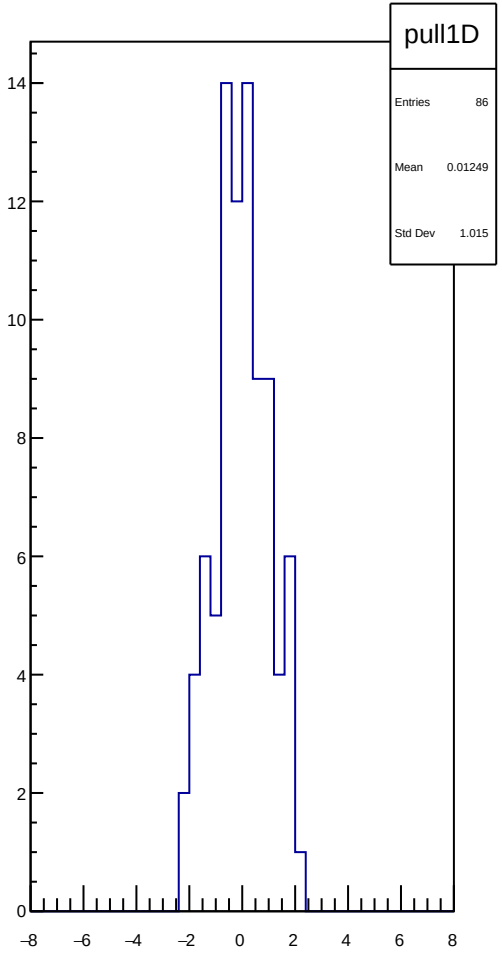

pull1D
Entries 86
Mean −0.09824
Std Dev 1.14

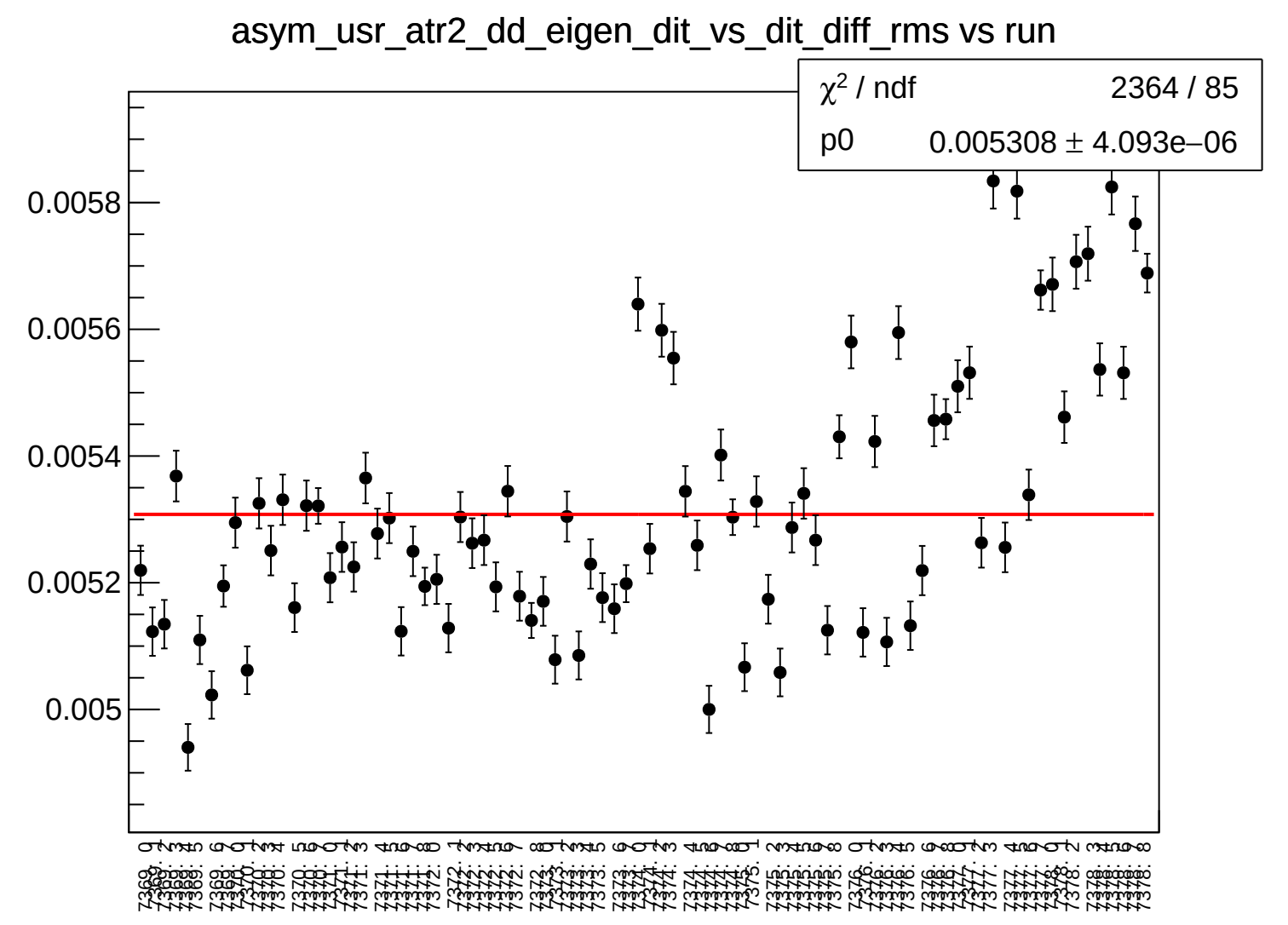

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.409e+05 / 85
p0 346.3 ± 0.2988
900
800
700
600
500
400
300
200
100

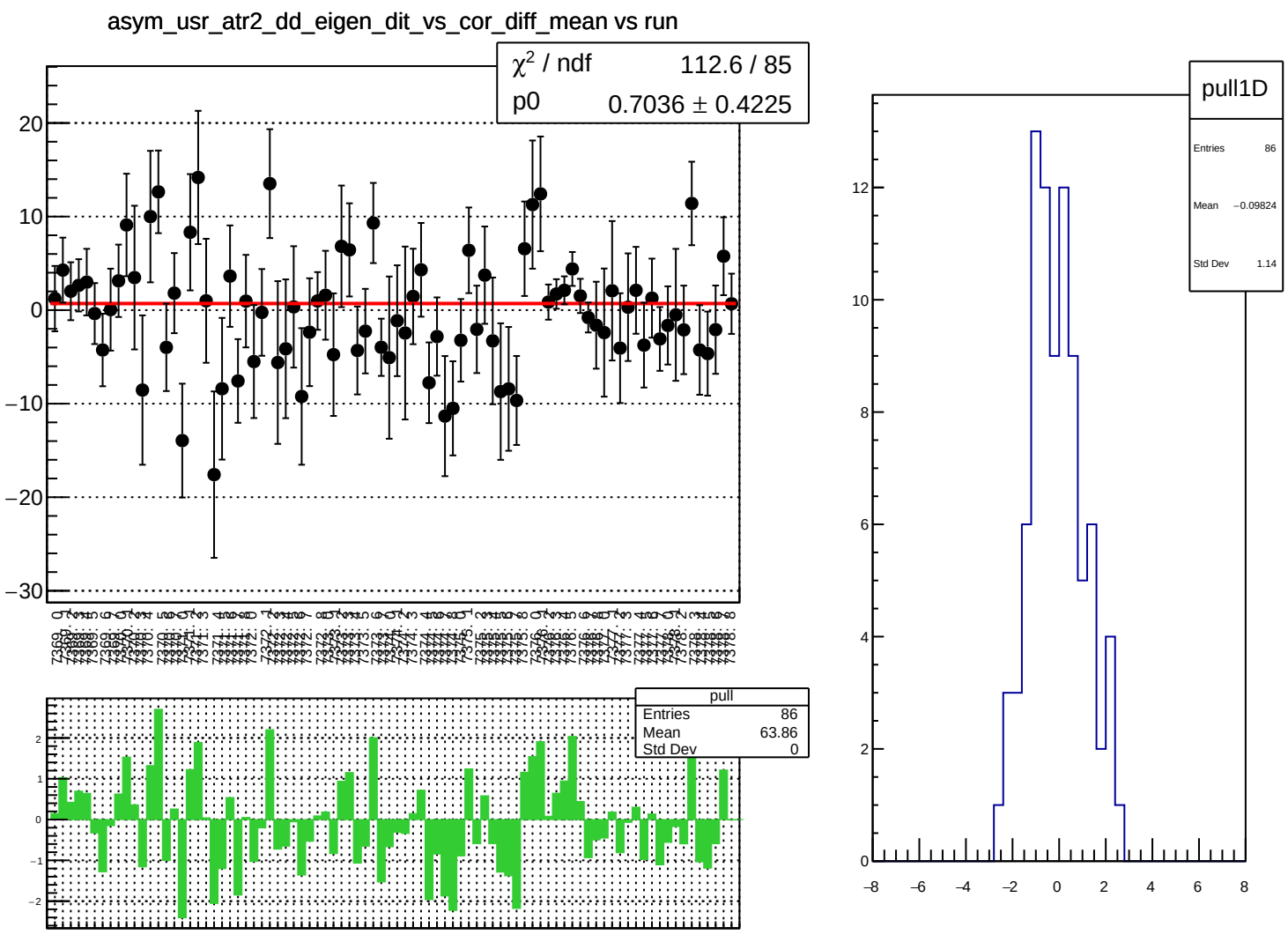

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.6 / 85
p0 0.7036 ± 0.4225
pull
Entries 86
Mean 63.86
Std Dev 0
pull1D
Entries 86
Mean −0.09824
Std Dev 1.14

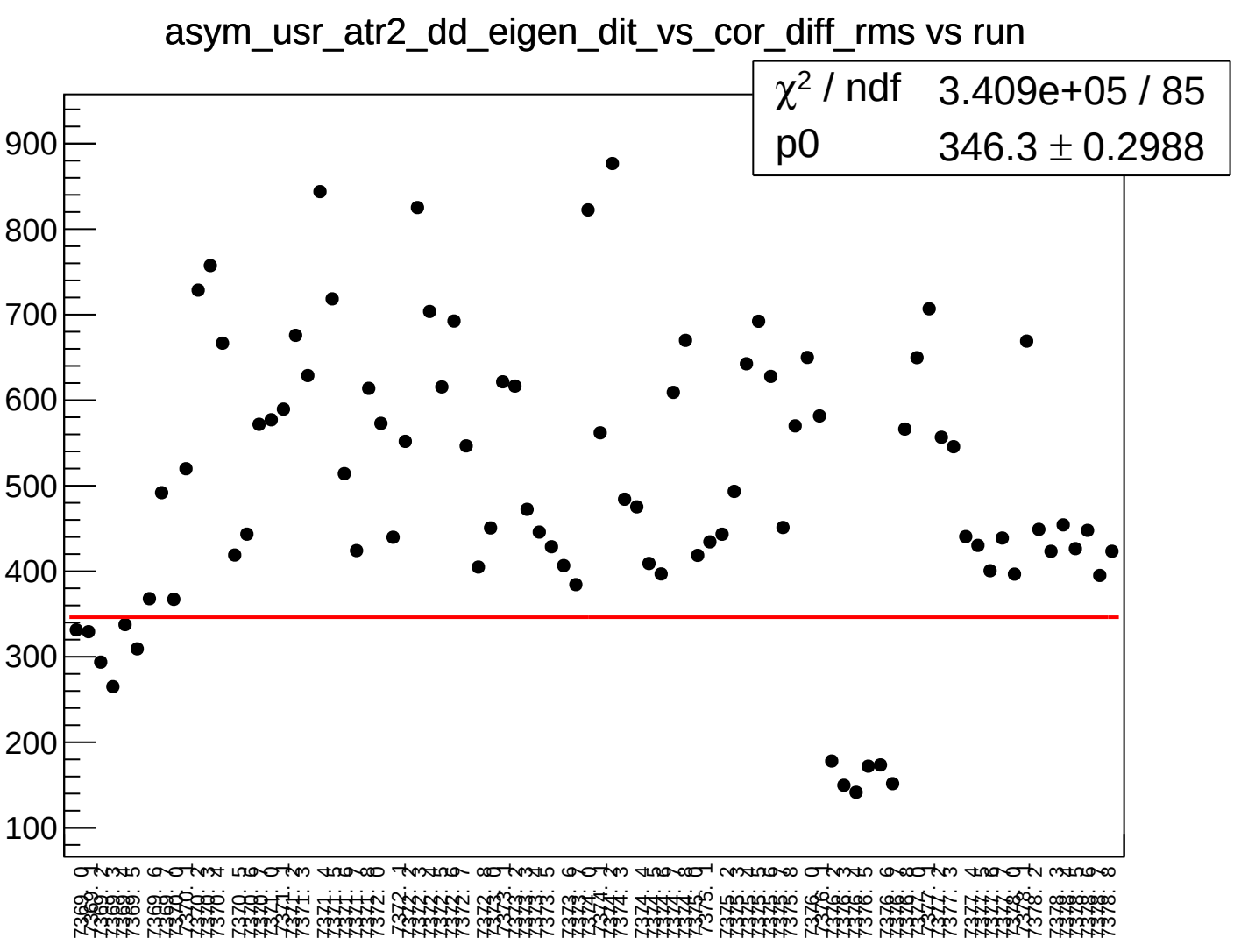

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.409e+05 / 85
p0 346.3 ± 0.2988
900
800
700
600
500
400
300
200
100

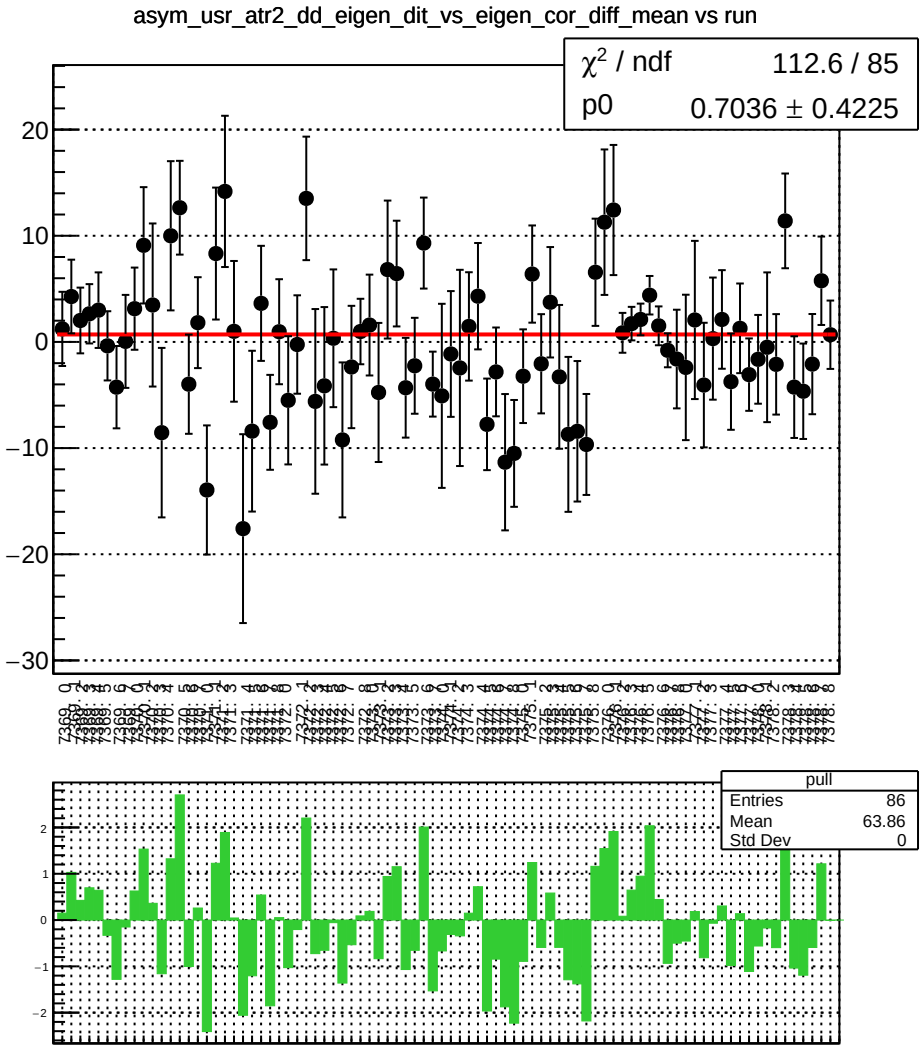

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.69 / 85
p0 1.561e−06 ± 5.788e−06
pull
Entries 86
Mean 189.3
Std Dev 0

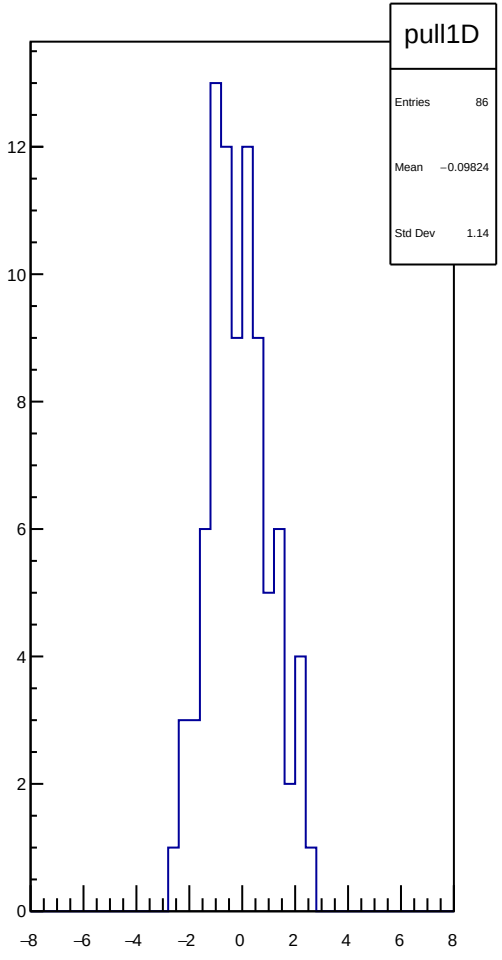

pull1D
Entries 86
Mean 0.01249
Std Dev 1.015

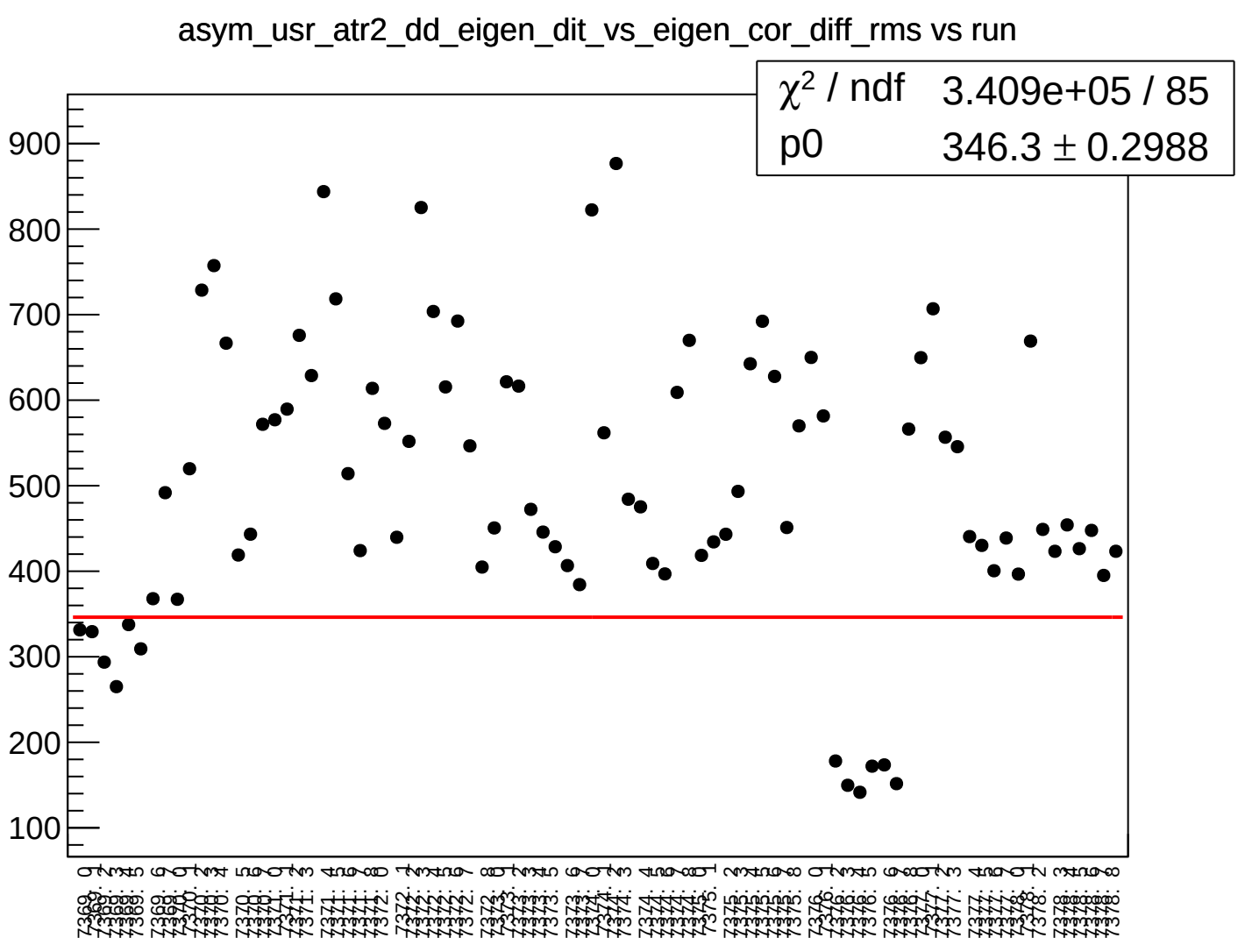

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2364 / 85
p0 0.005308 ± 4.093e−06
0.0058
0.0056
0.0054
0.0052
0.005

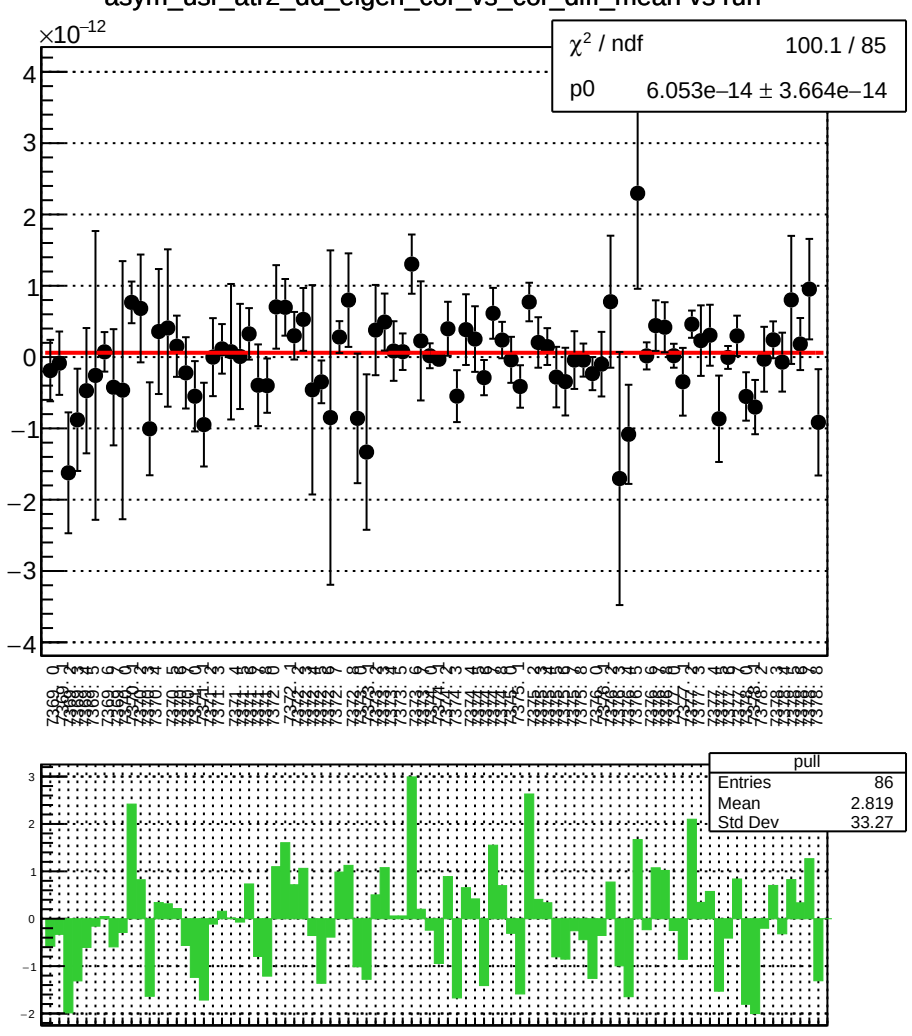

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 85
p0 0.7036 ± 0.4225
pull
Entries 86
Mean 63.86
Std Dev 0
pull1D
Entries 86
Mean −0.09824
Std Dev 1.14

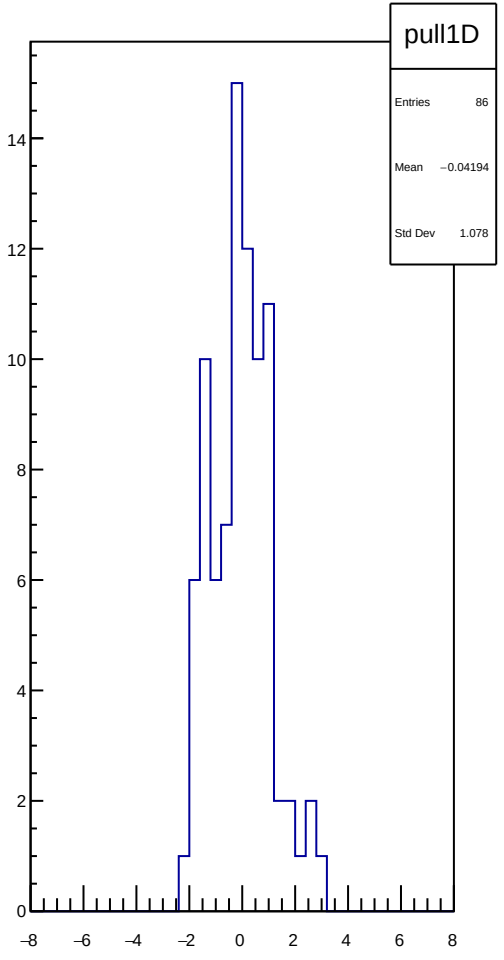

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.409e+05 / 85
p0 346.3 ± 0.2988
900
800
700
600
500
400
300
200
100

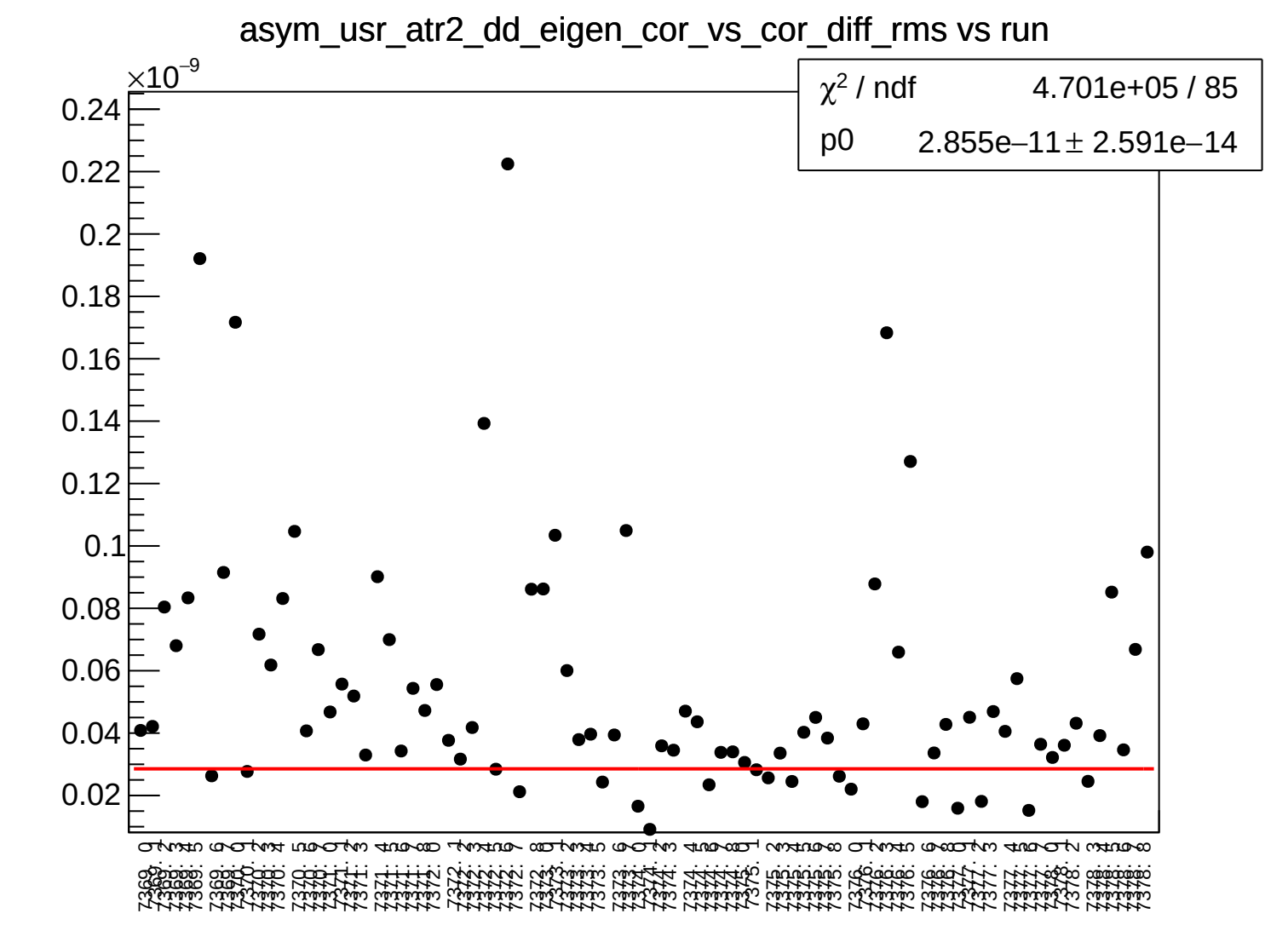

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.6 / 85
p0 0.7036 ± 0.4225
pull
Entries 86
Mean 63.86
Std Dev 0

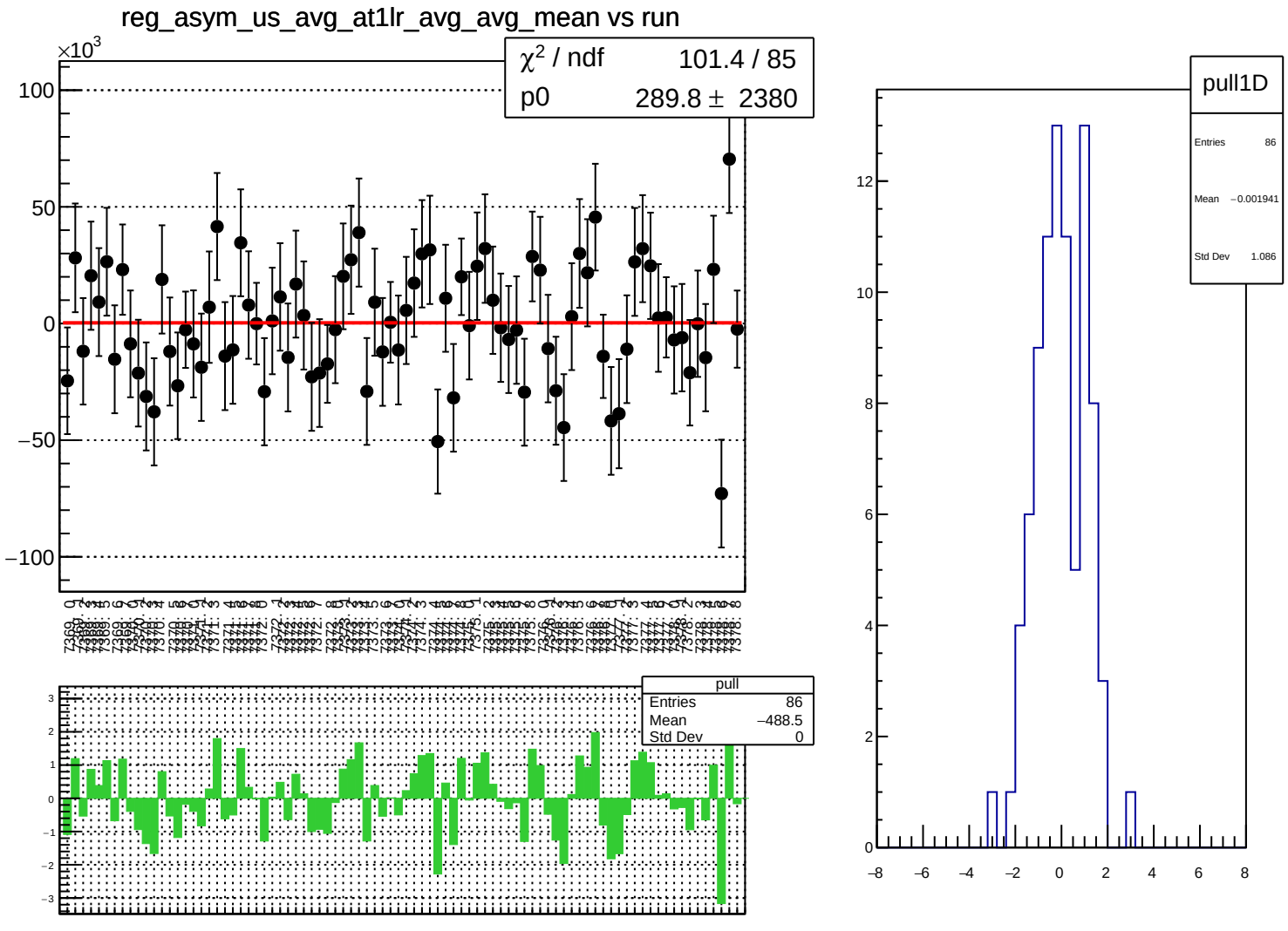

pull1D
Entries 86
Mean −0.09824
Std Dev 1.14

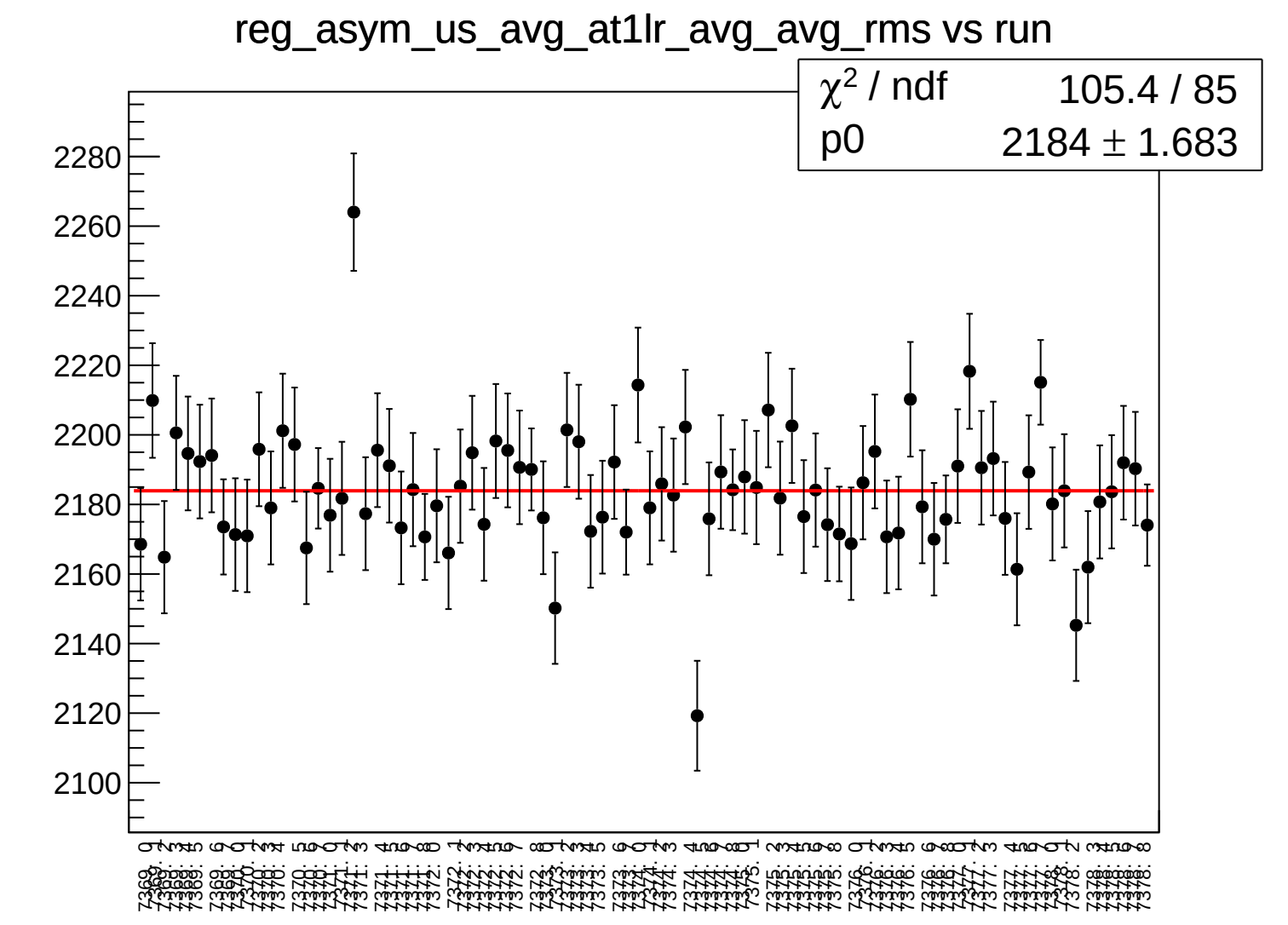

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.409e+05 / 85
p0 346.3 ± 0.2988
900
800
700
600
500
400
300
200
100

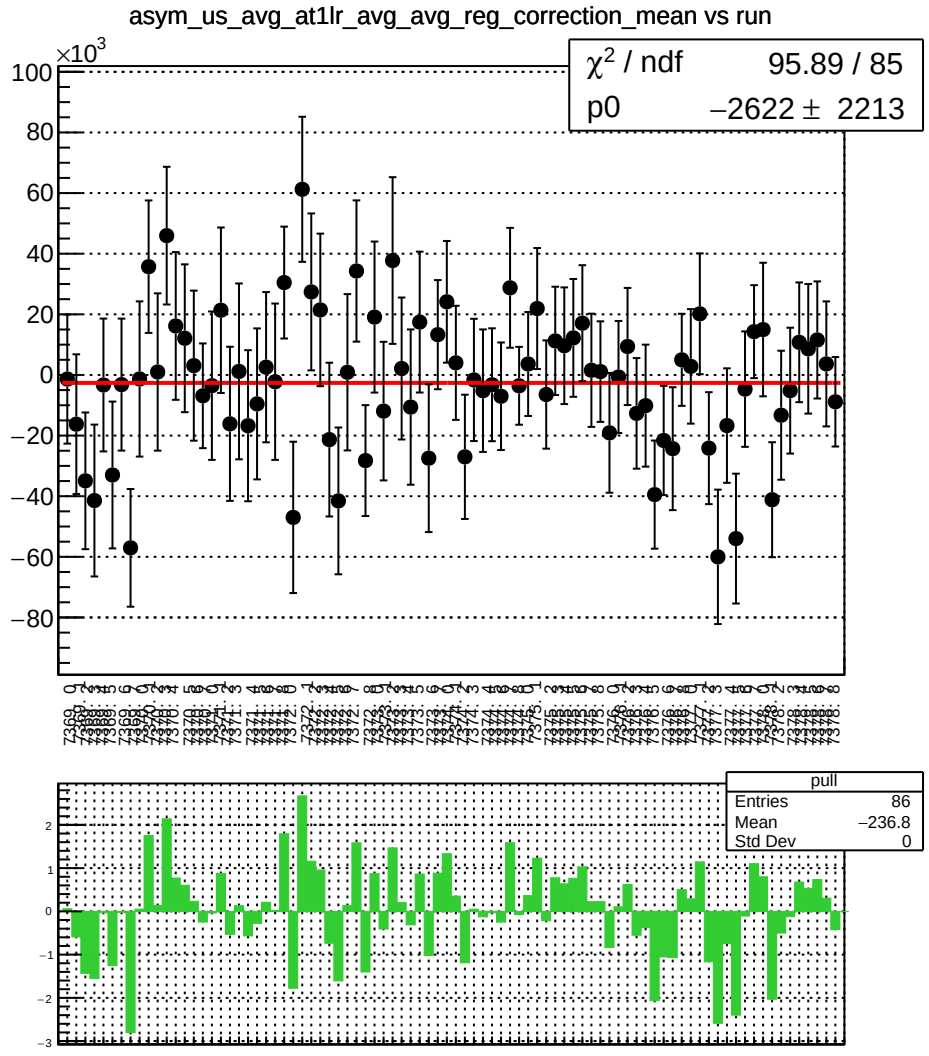

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.1 / 85
p0 6.053e−14 ± 3.664e−14
pull
Entries 86
Mean 2.819
Std Dev 33.27

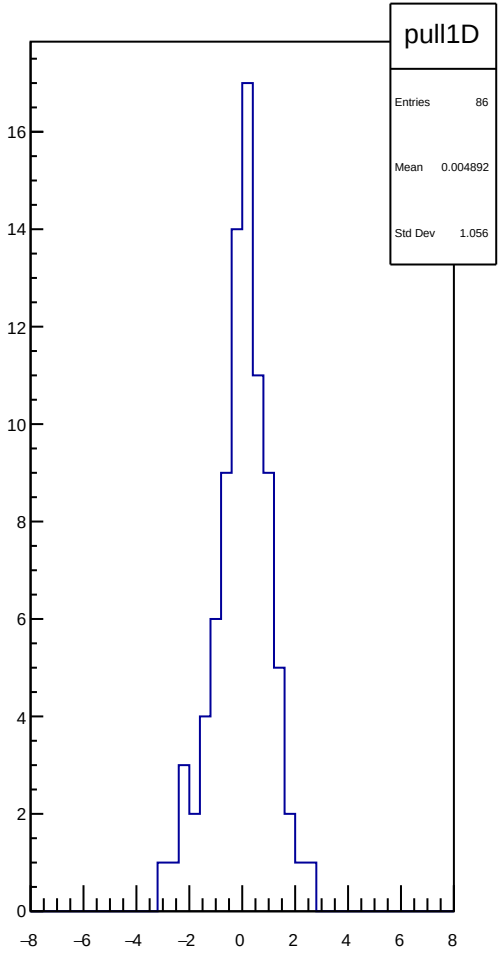

pull1D
Entries 86
Mean −0.04194
Std Dev 1.078

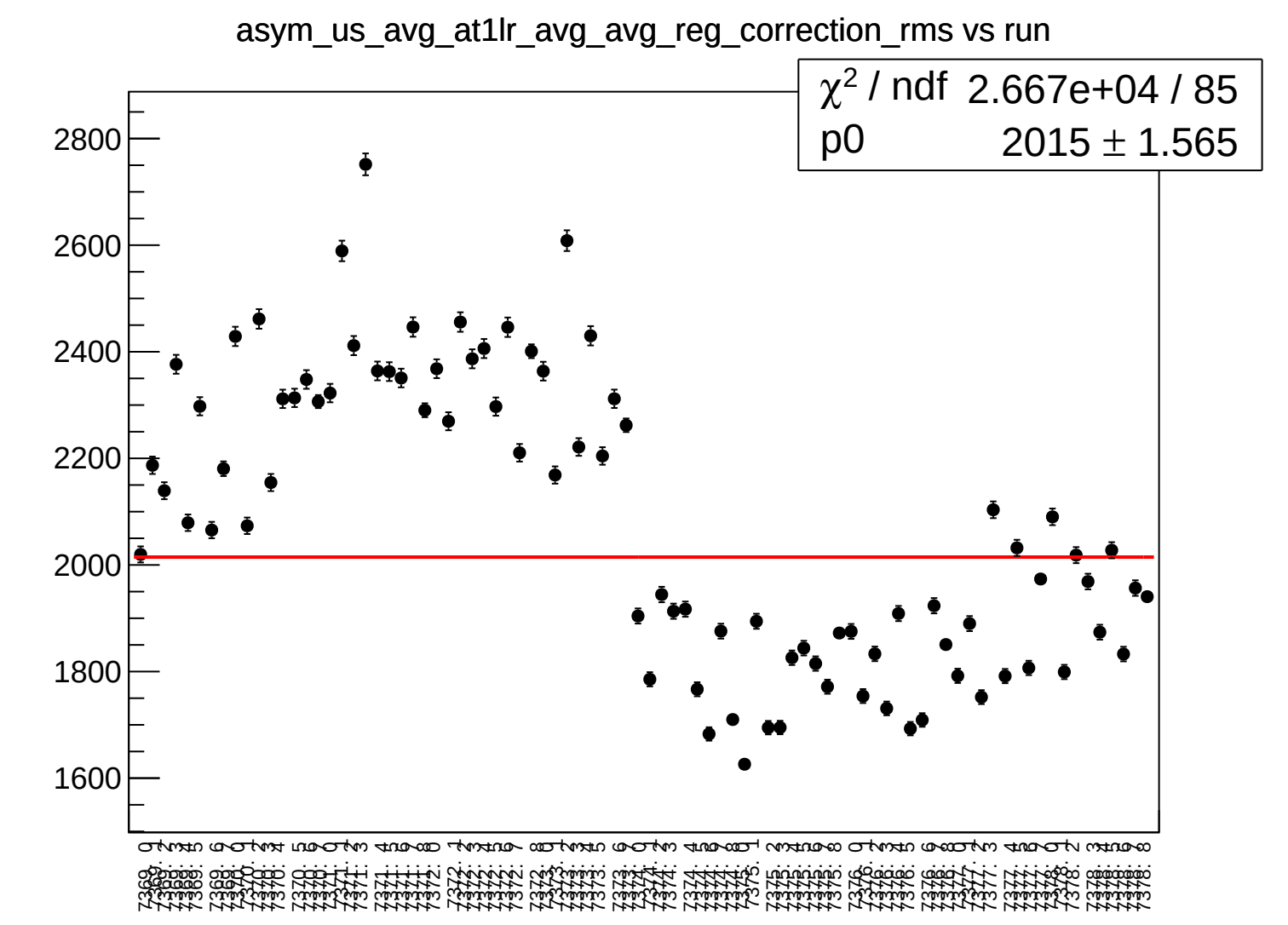

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.701e+05 / 85
p0 2.855e−11 ± 2.591e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

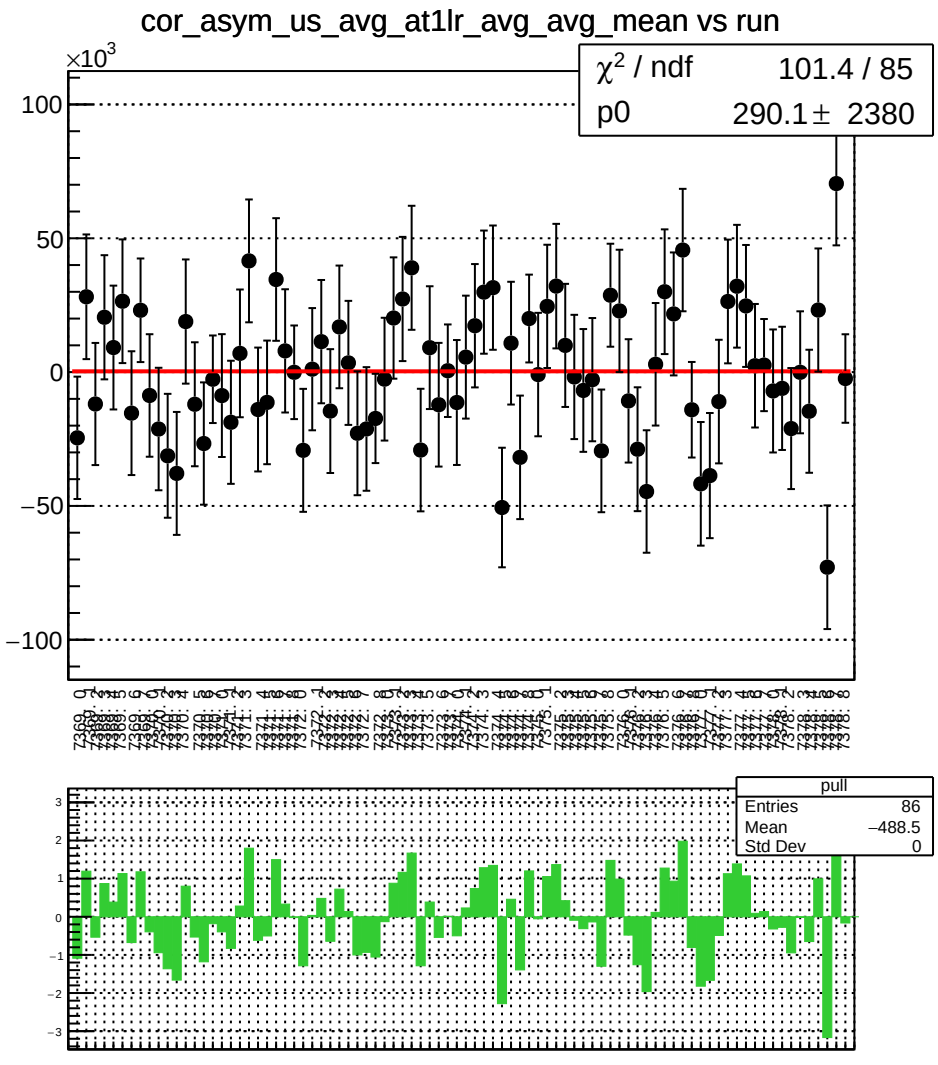

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 101.4 / 85
p0 289.8 ± 2380
100
50
0
−50
−100
pull
Entries 86
Mean −488.5
Std Dev 0
pull1D
Entries 86
Mean −0.001941
Std Dev 1.086

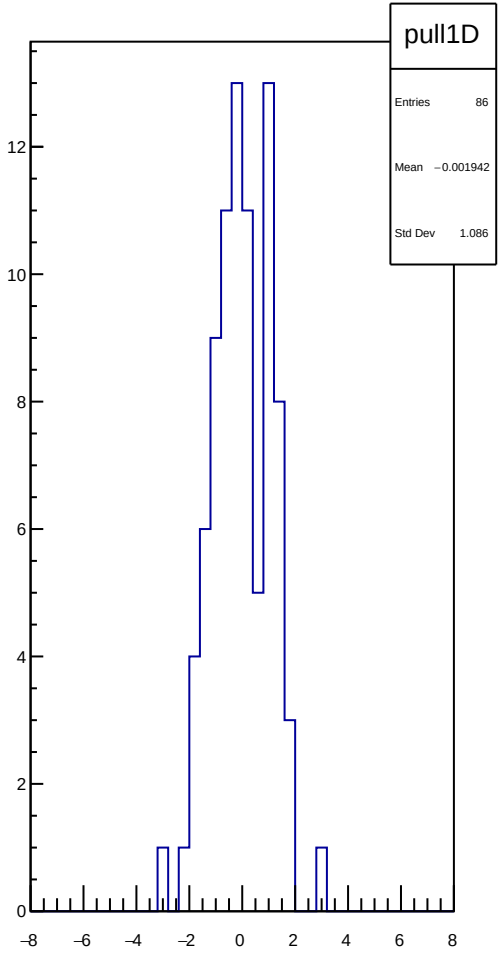

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 105.4 / 85
p0 2184 ± 1.683
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

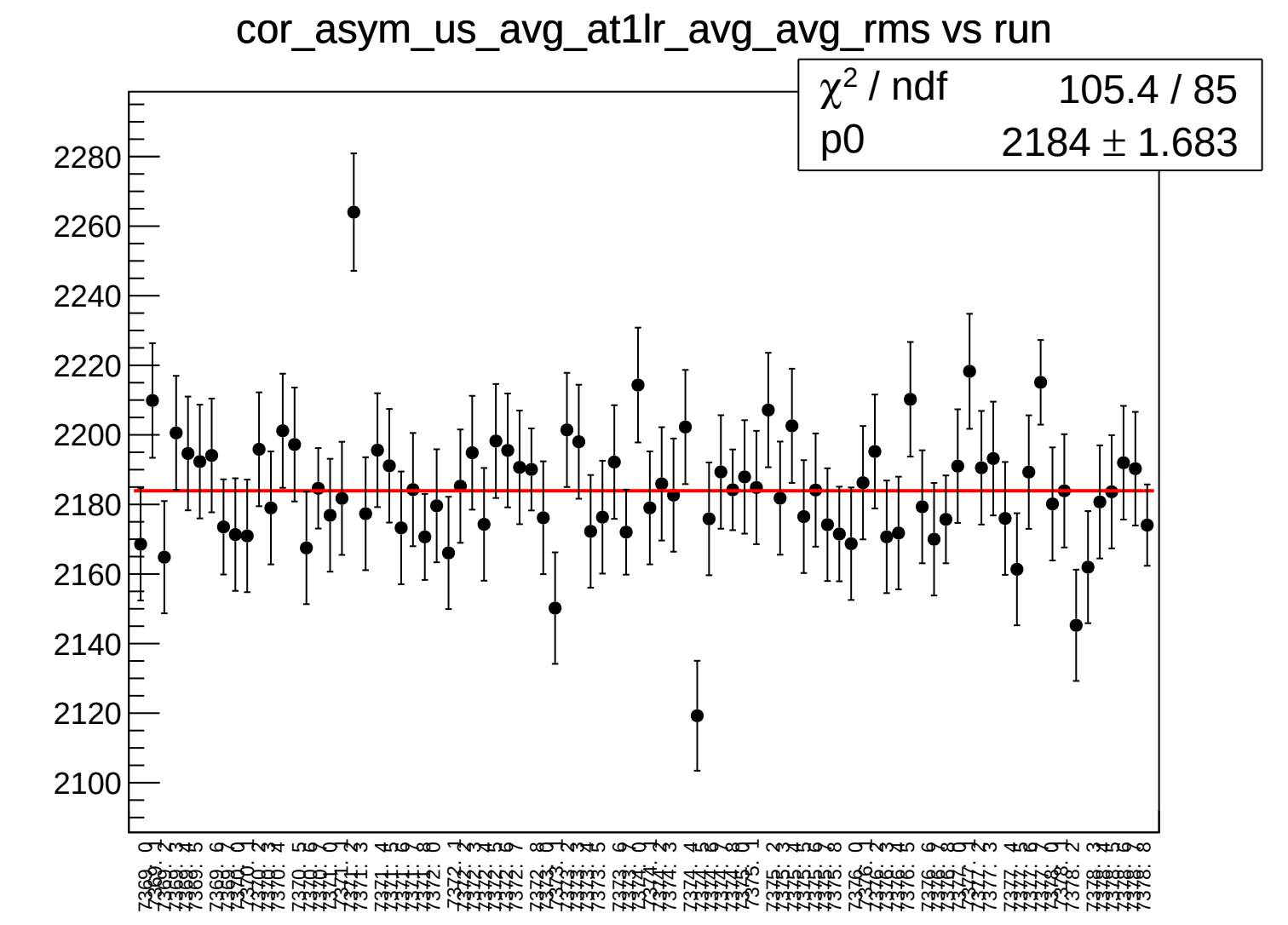

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.89 / 85
p0 −2622 ± 2213
pull
Entries 86
Mean −236.8
Std Dev 0

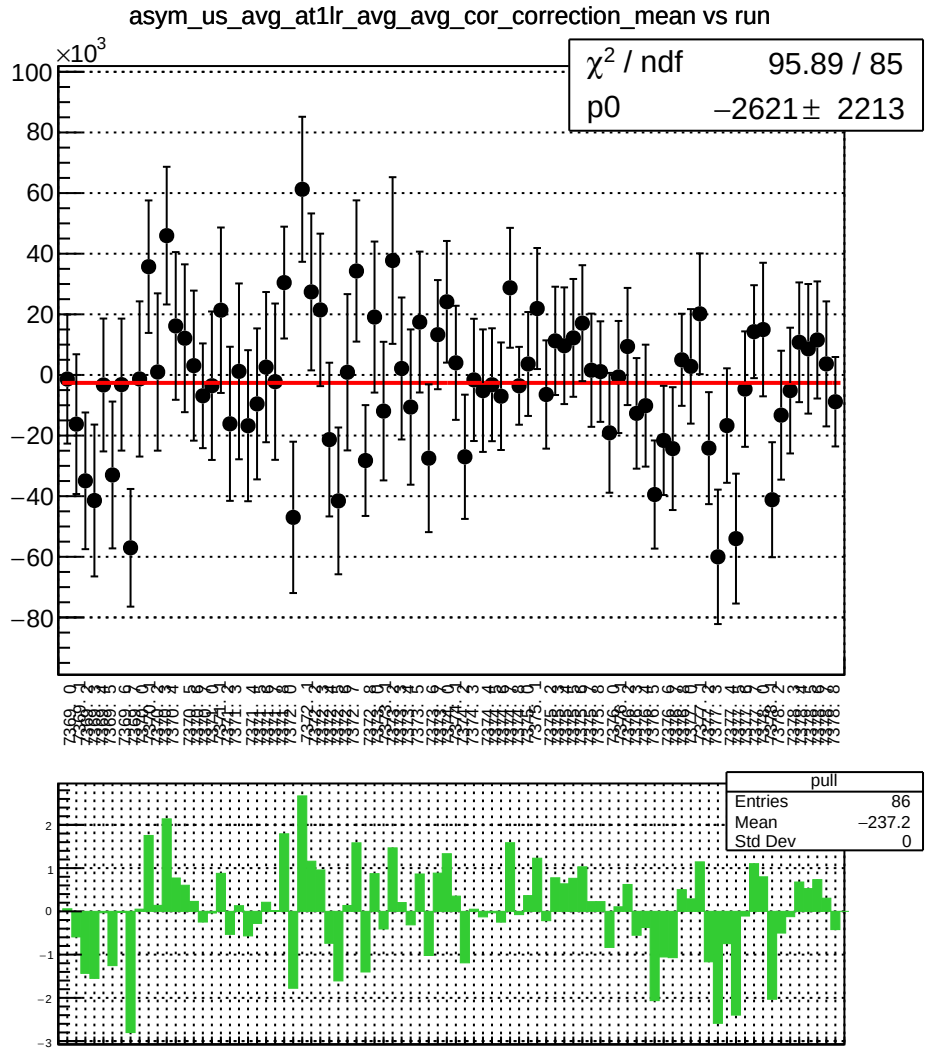

pull1D
Entries 86
Mean 0.004892
Std Dev 1.056

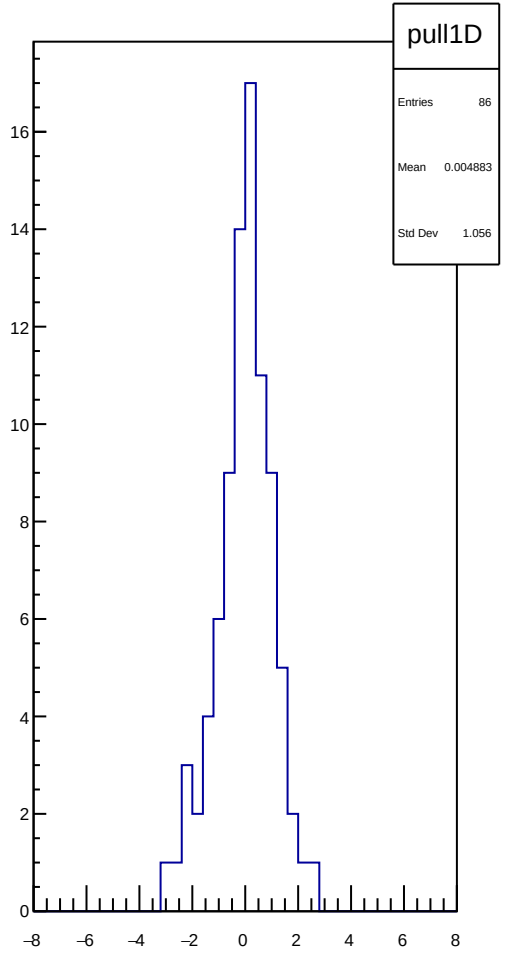

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.667e+04 / 85
p0 2015 ± 1.565
2800
2600
2400
2200
2000
1800
1600

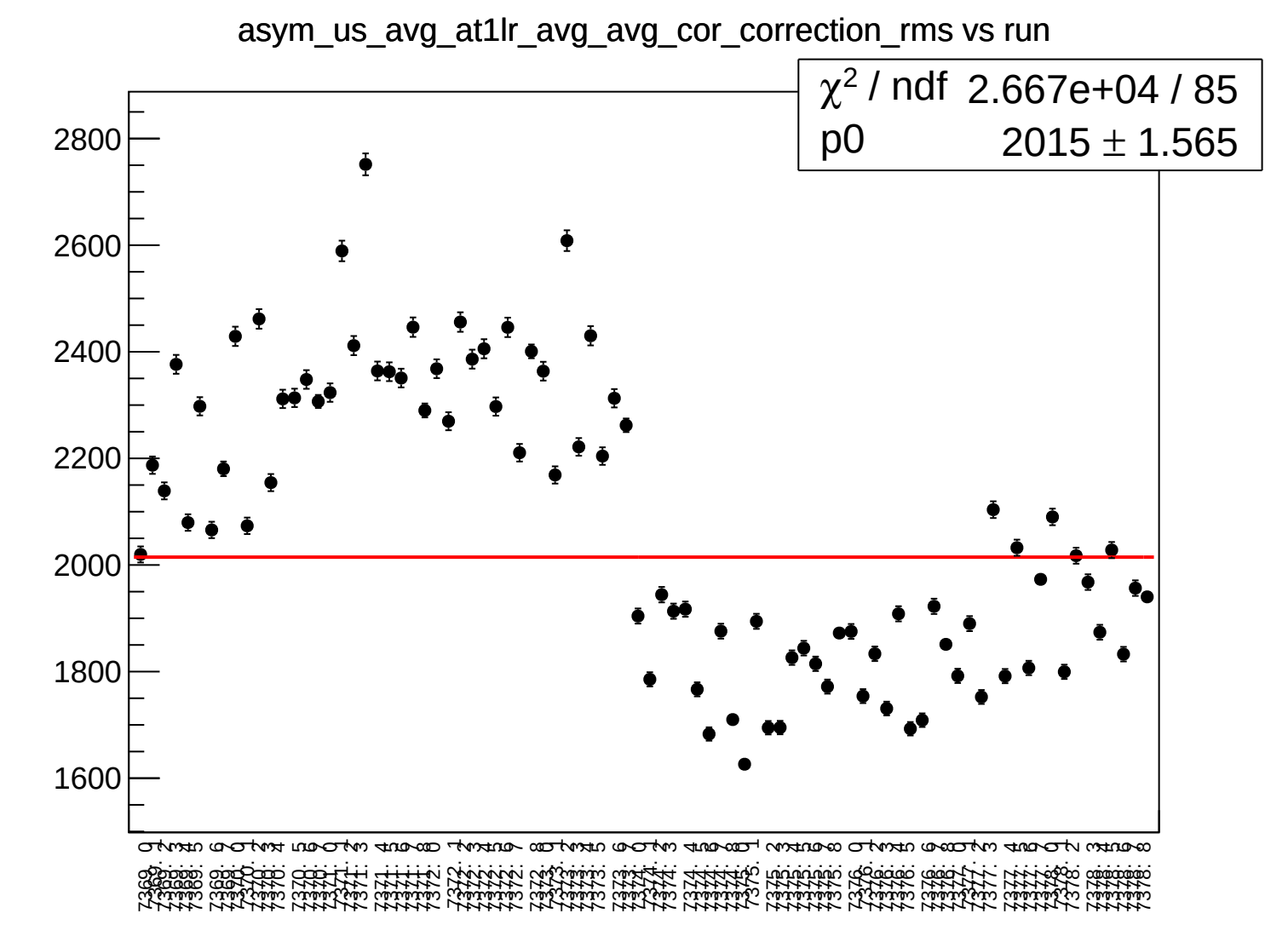

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 101.4 / 85
p0 290.1 ± 2380
100
50
0
−50
−100
pull
Entries 86
Mean −488.5
Std Dev 0
3
2
1
0
−1
−2
−3

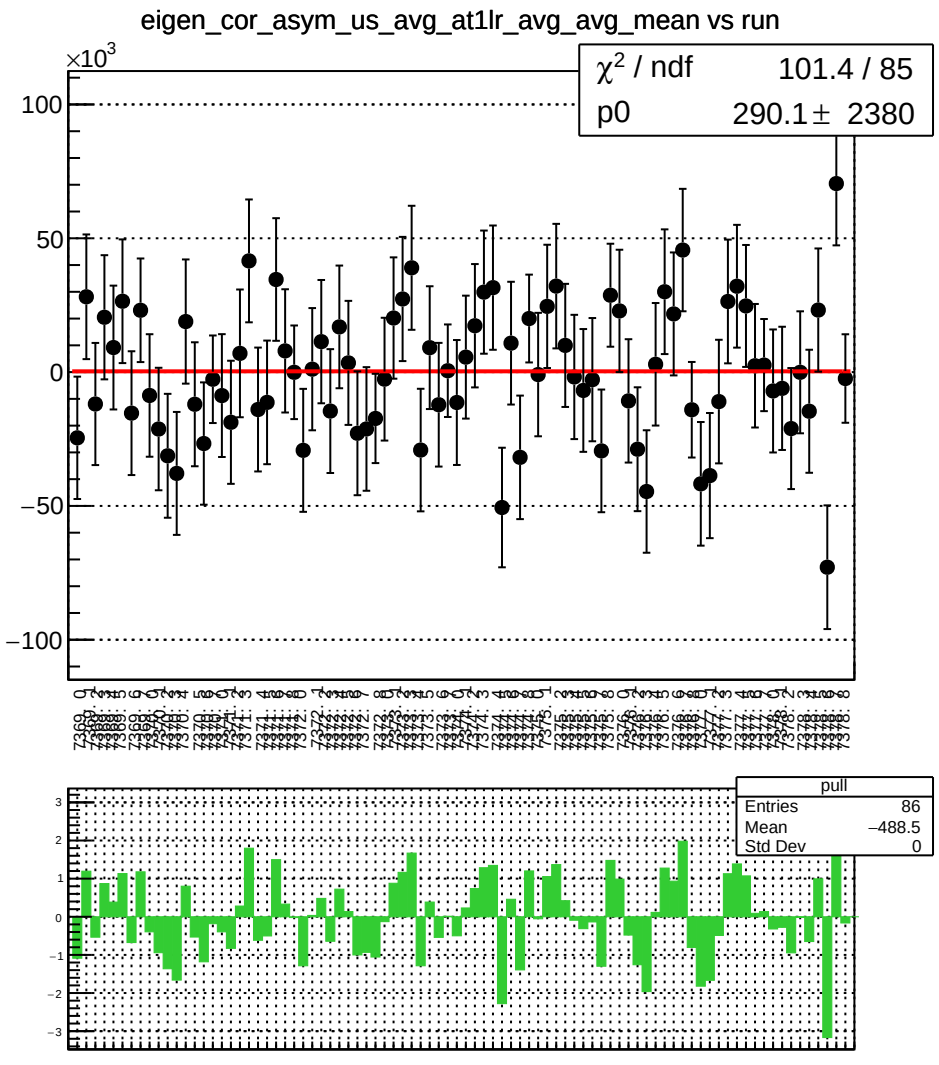

pull1D
Entries 86
Mean −0.001942
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

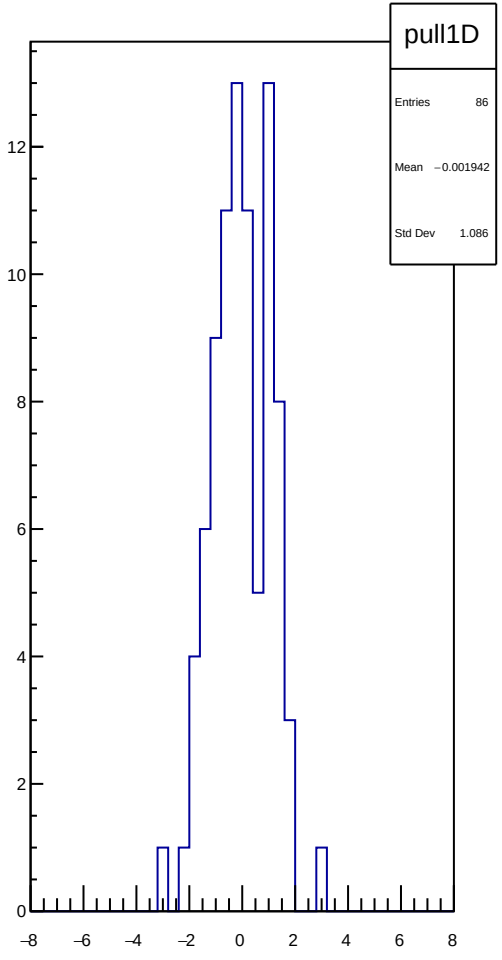

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 105.4 / 85
p0 2184 ± 1.683
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

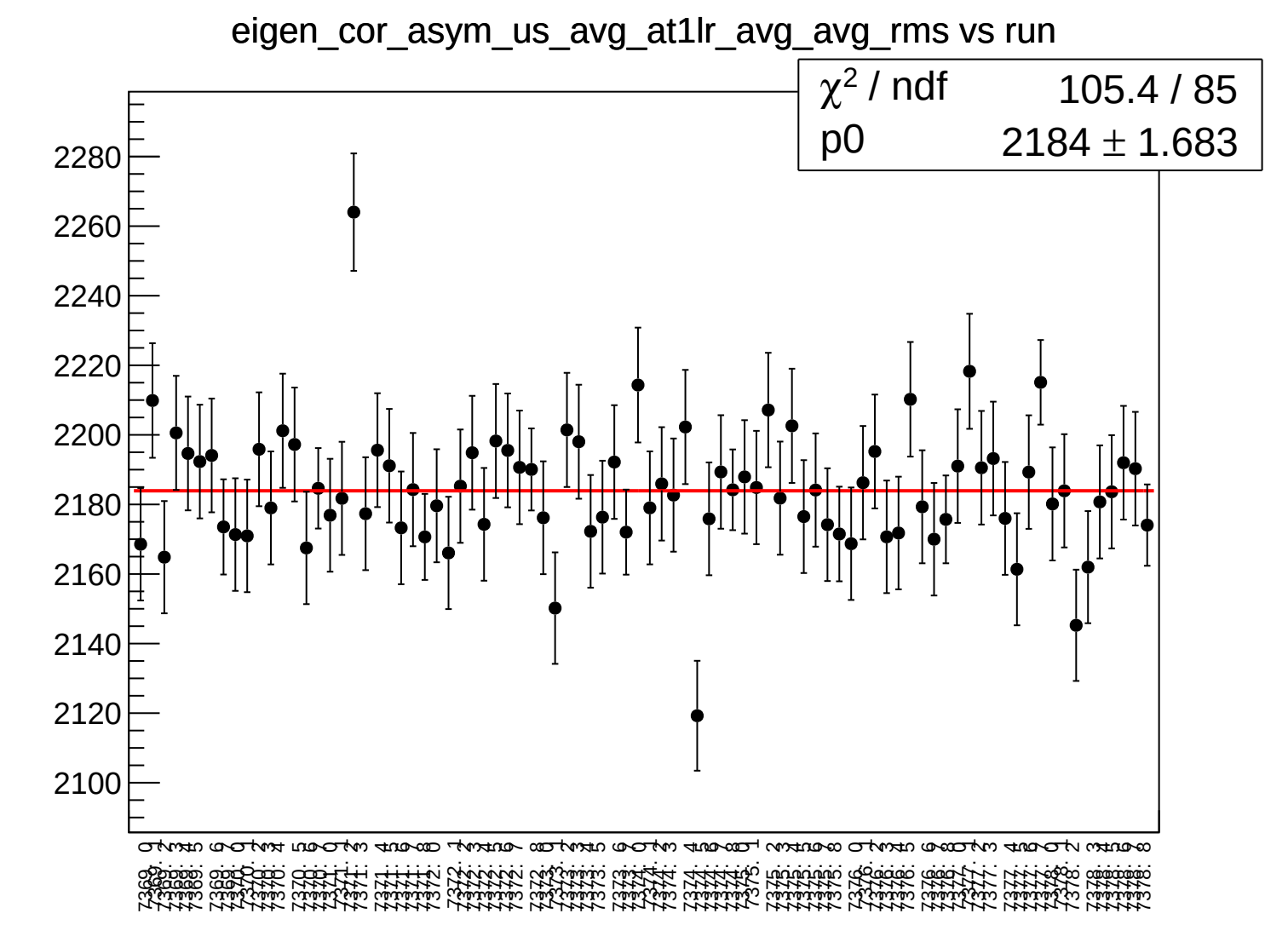

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.89 / 85
p0 −2621 ± 2213
pull
Entries 86
Mean −237.2
Std Dev 0

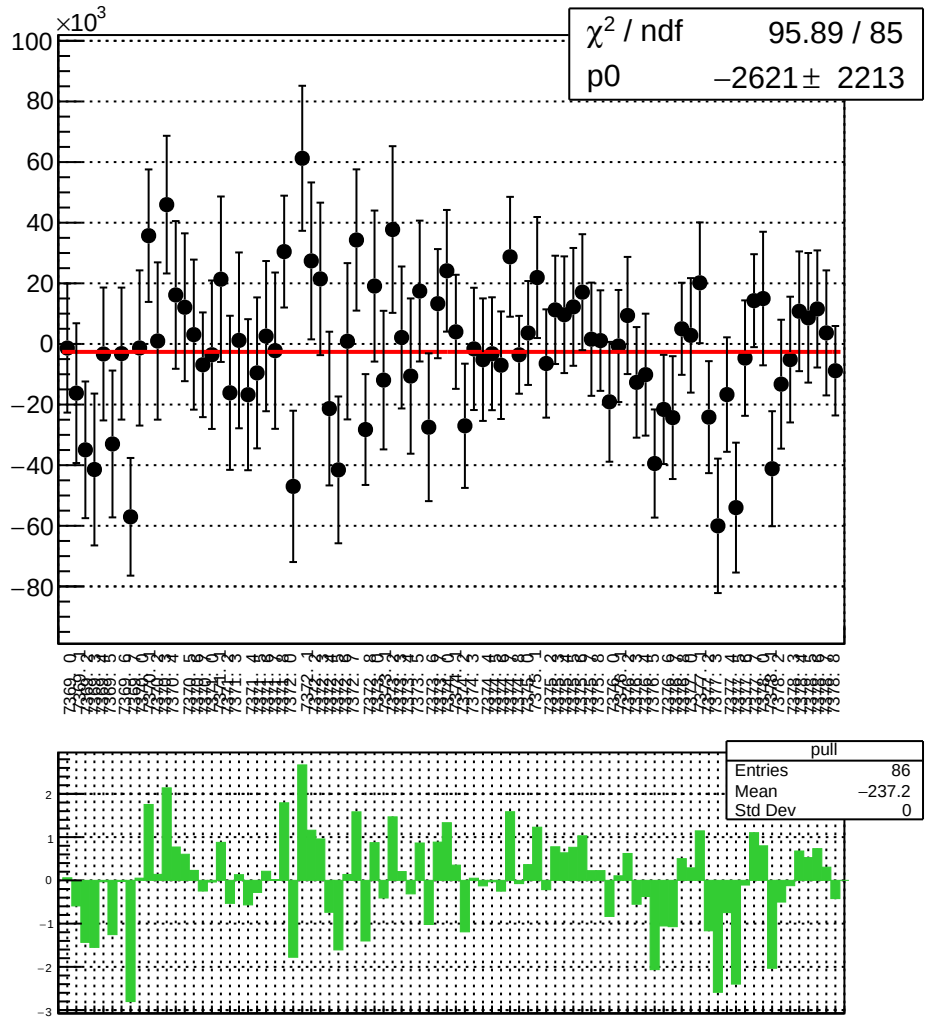

pull1D
Entries 86
Mean 0.004883
Std Dev 1.056

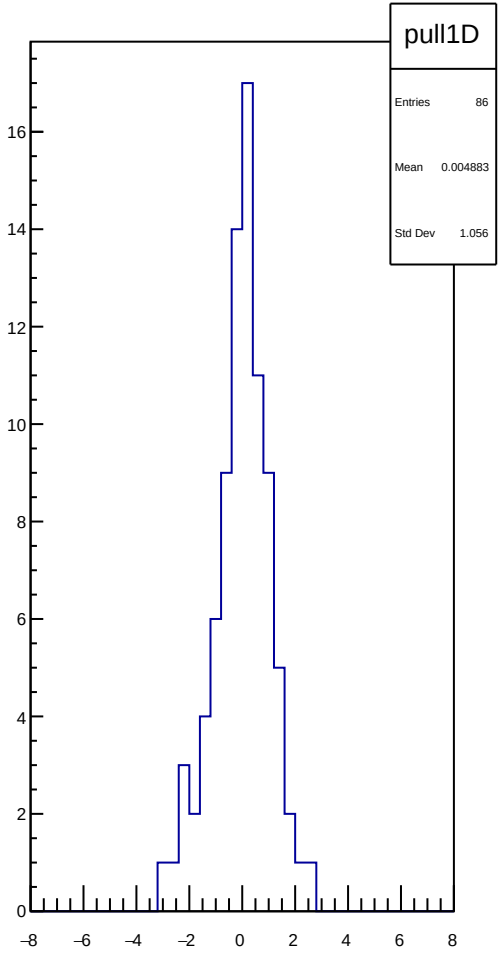

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.667e+04 / 85
p0 2015 ± 1.565
2800
2600
2400
2200
2000
1800
1600

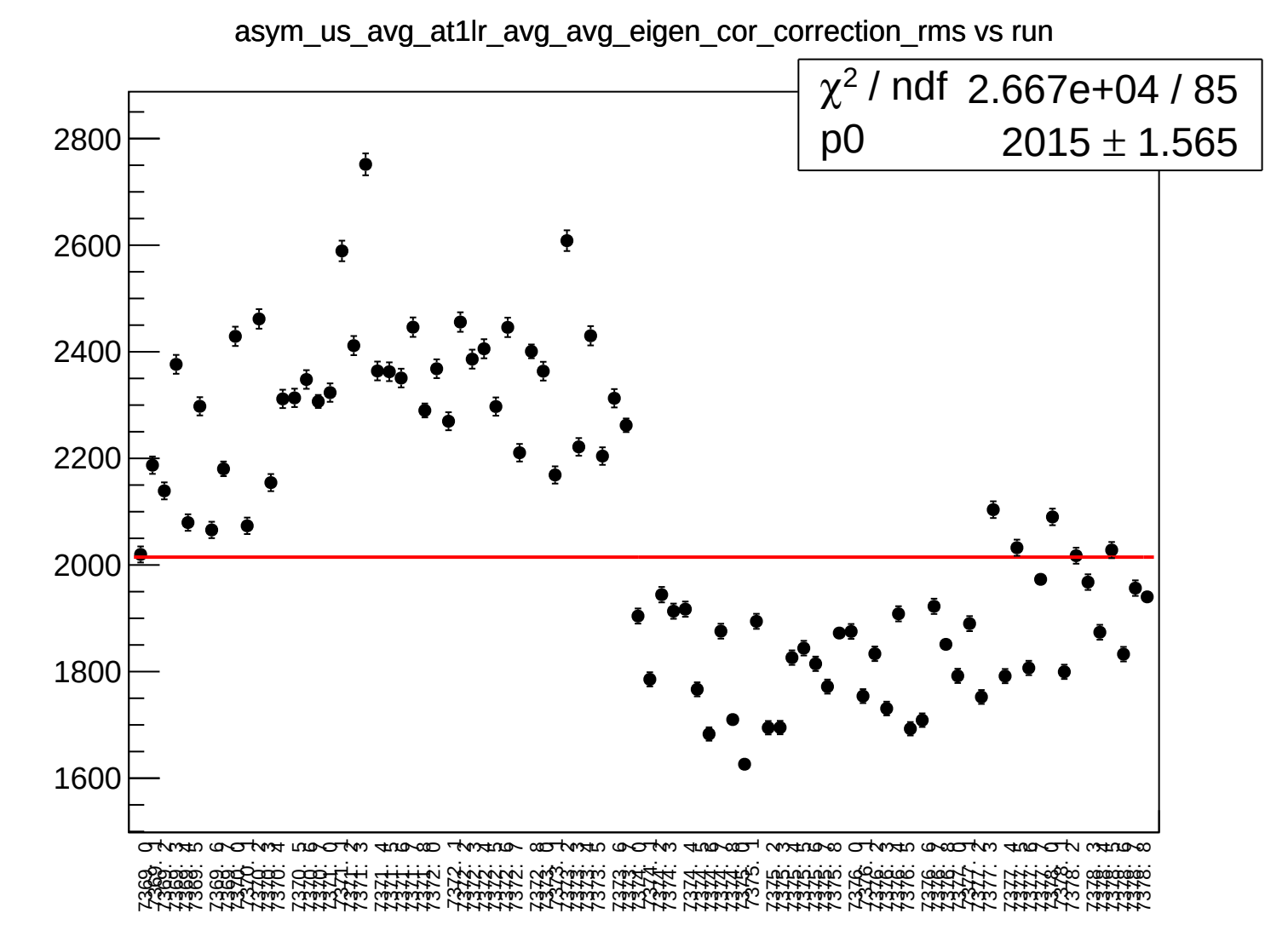

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 101.4 / 85
p0 290.1 ± 2380
100
50
0
−50
−100
pull
Entries 86
Mean −488.5
Std Dev 0
3
2
1
0
−1
−2
−3

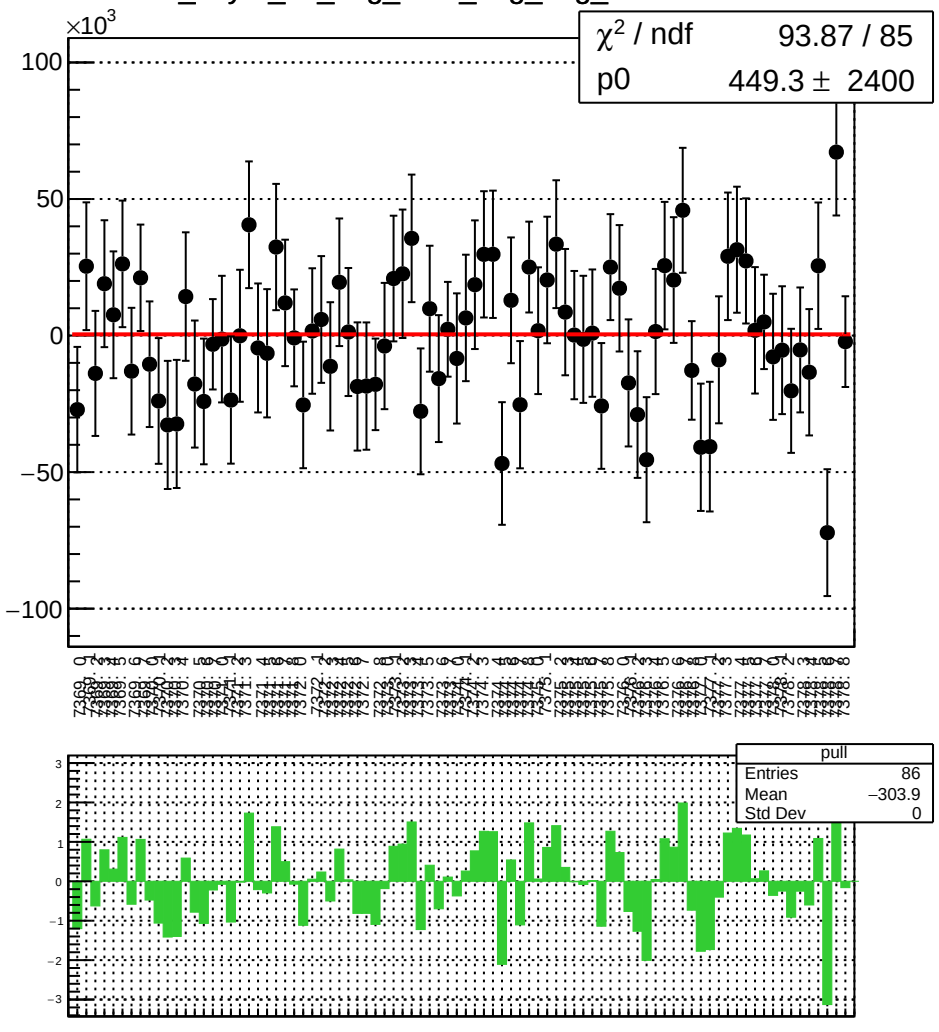

pull1D
Entries 86
Mean −0.001942
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

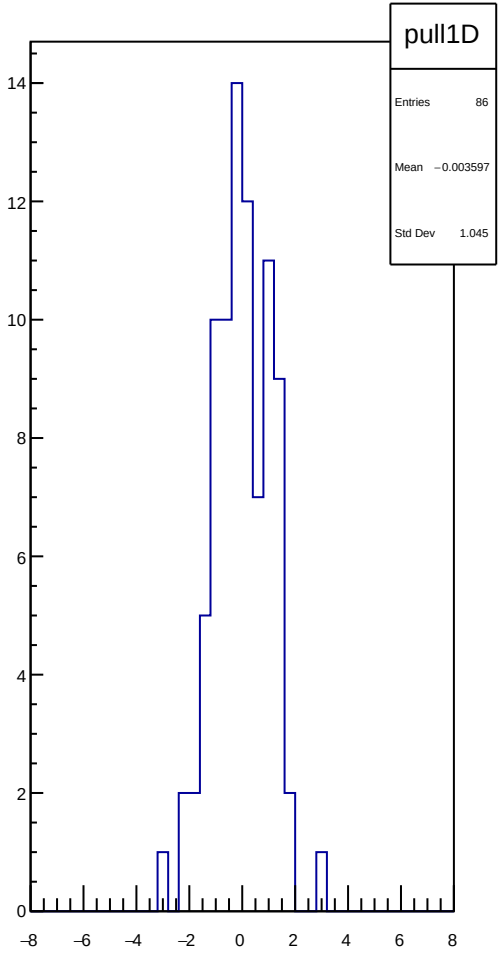

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 105.4 / 85
p0 2184 ± 1.683
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

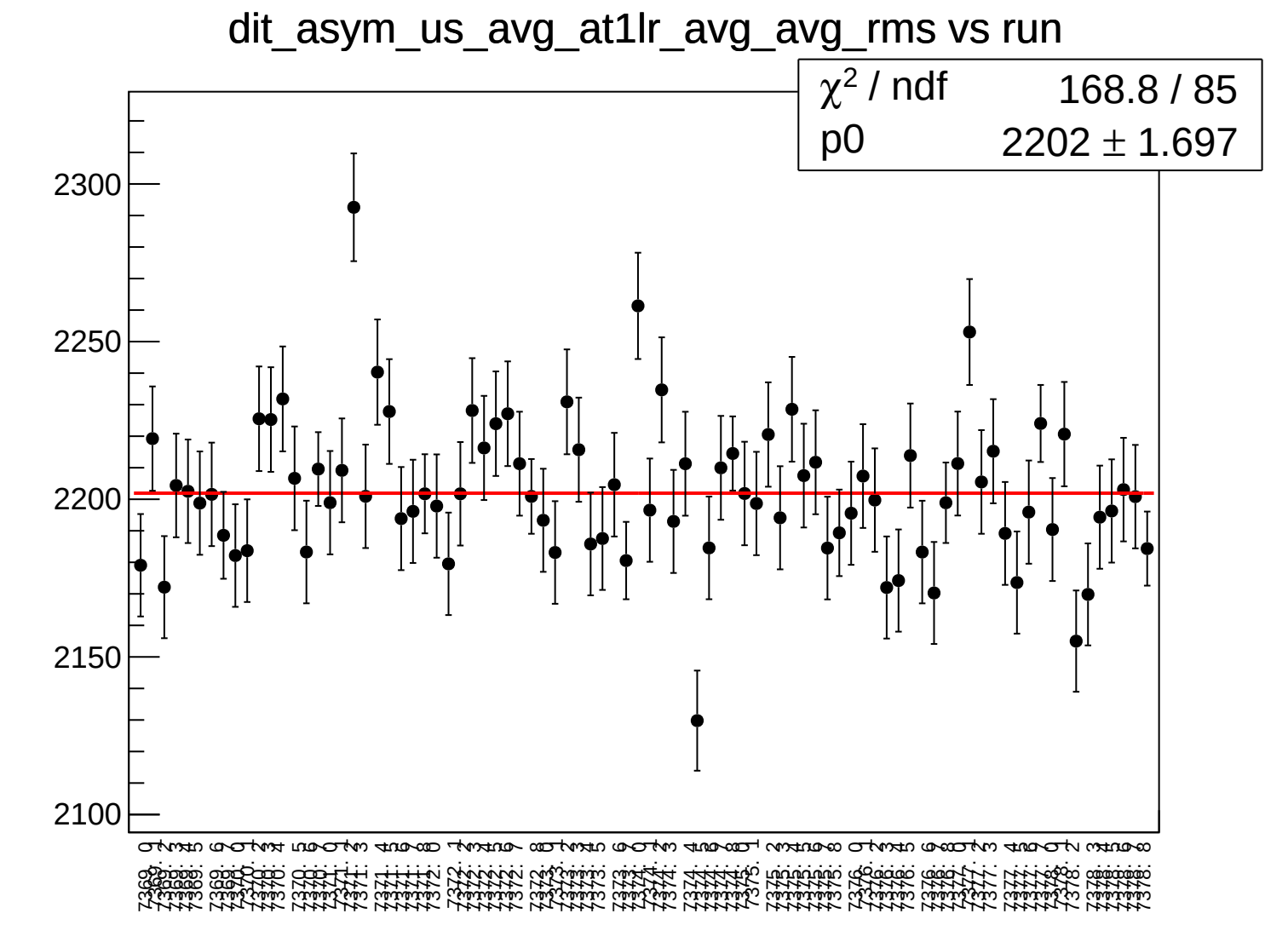

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.89 / 85
p0 −2621 ± 2213
pull
Entries 86
Mean −237.2
Std Dev 0

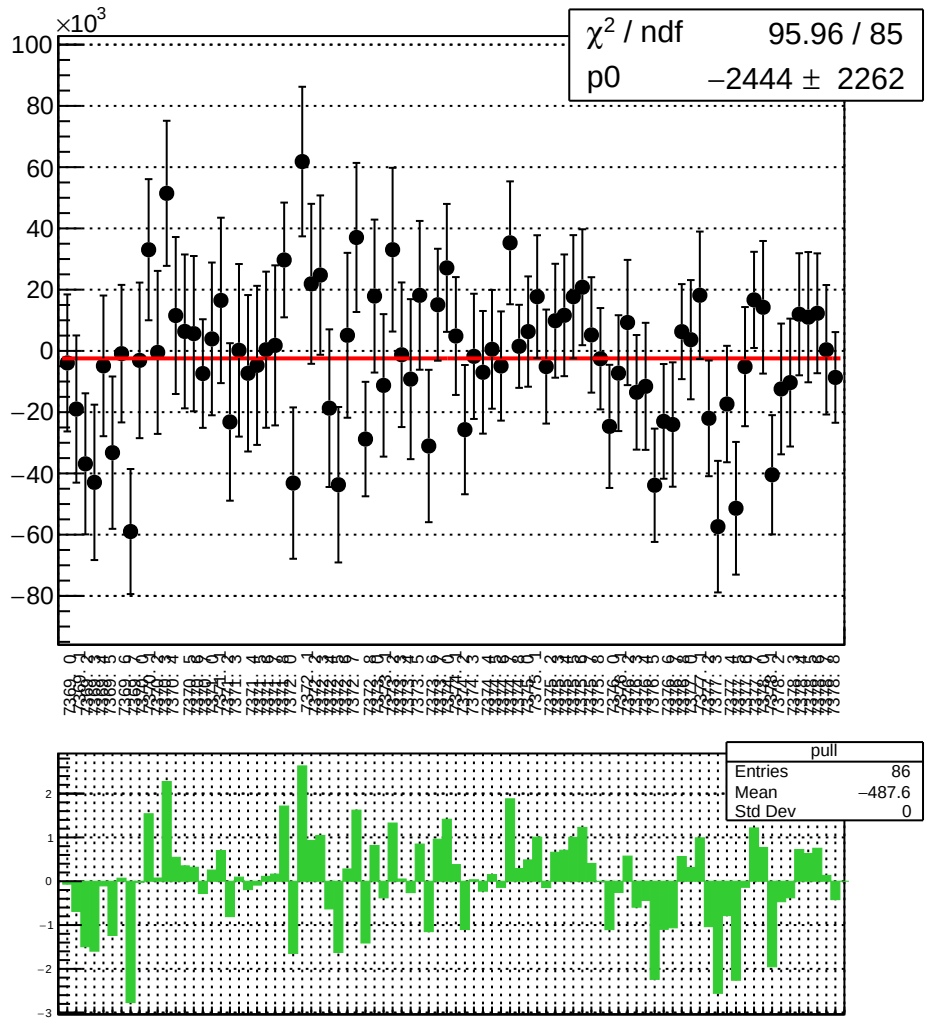

pull1D
Entries 86
Mean 0.004883
Std Dev 1.056

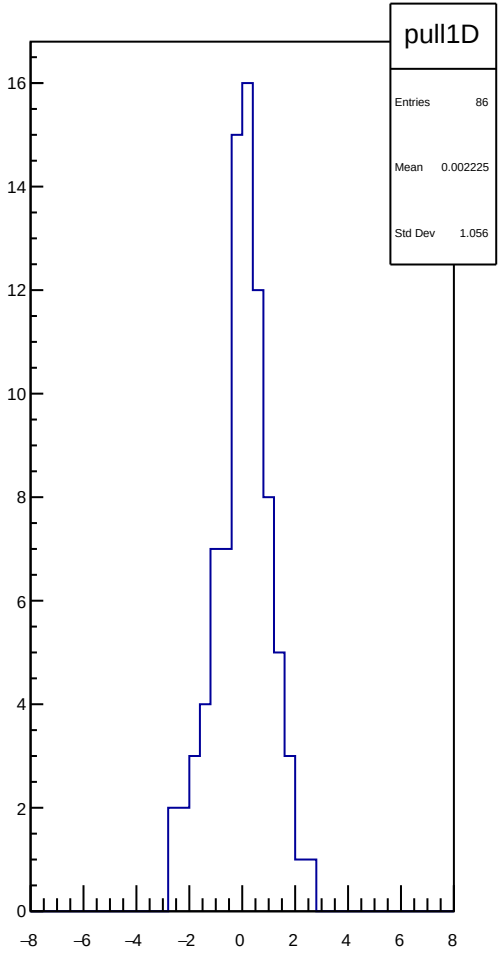

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.667e+04 / 85
p0 2015 ± 1.565
2800
2600
2400
2200
2000
1800
1600

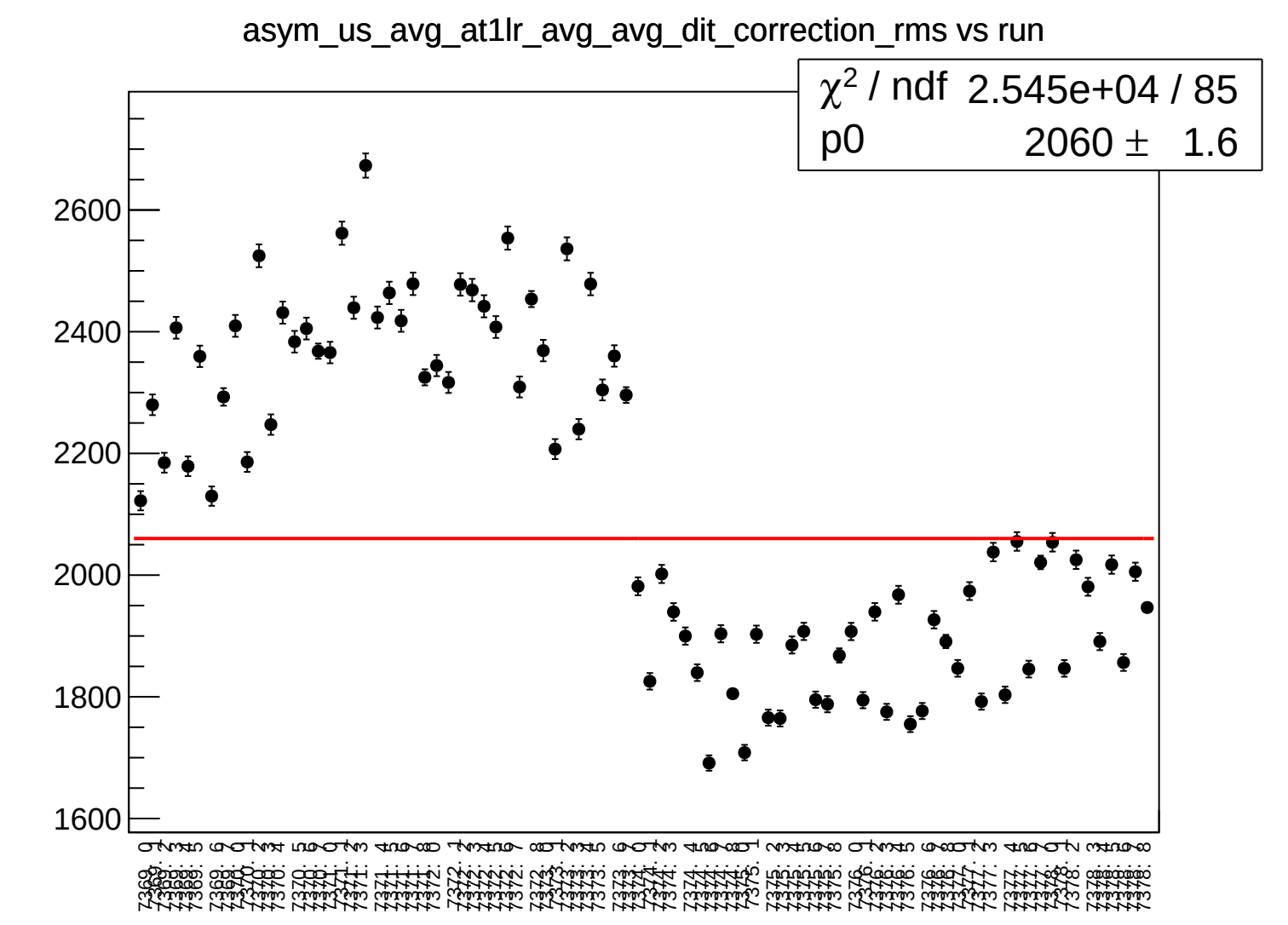

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 93.87 / 85
p0 449.3 ± 2400
100
50
0
−50
−100
pull
Entries 86
Mean −303.9
Std Dev 0
3
2
1
0
−1
−2
−3

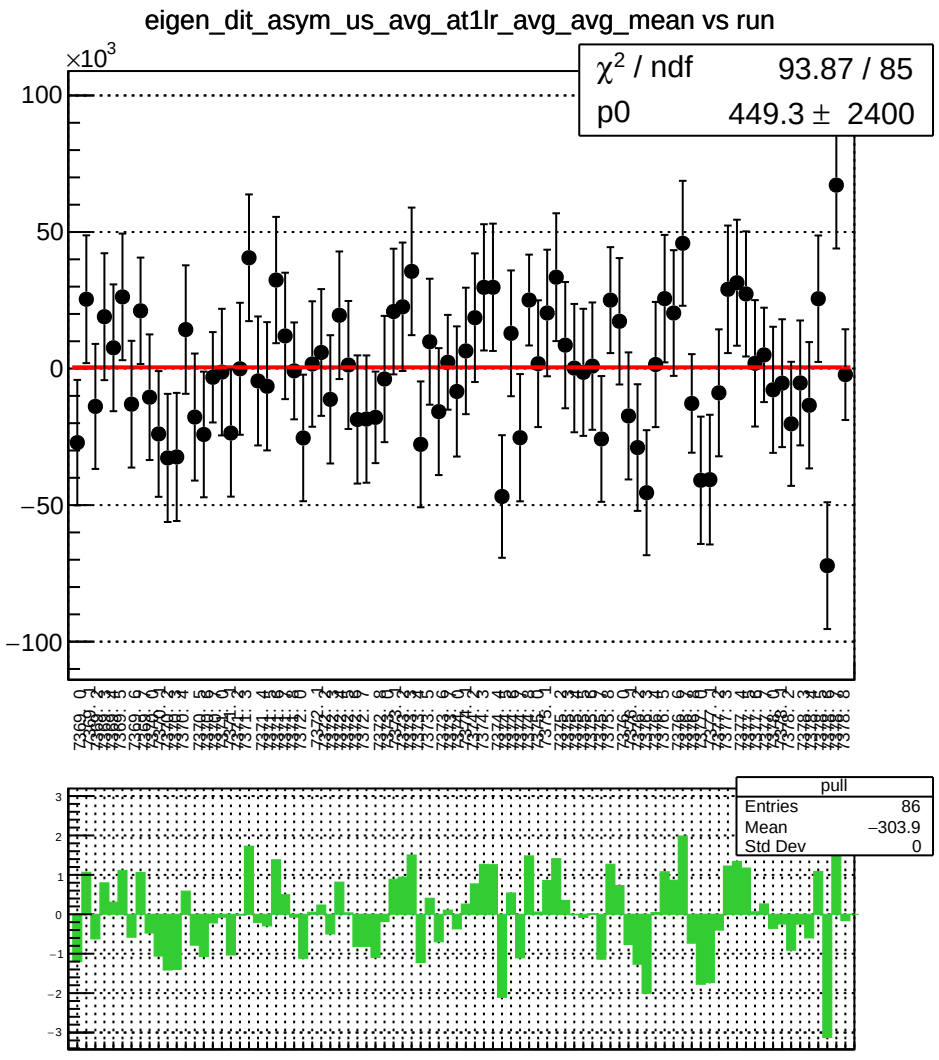

pull1D
Entries 86
Mean −0.003597
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

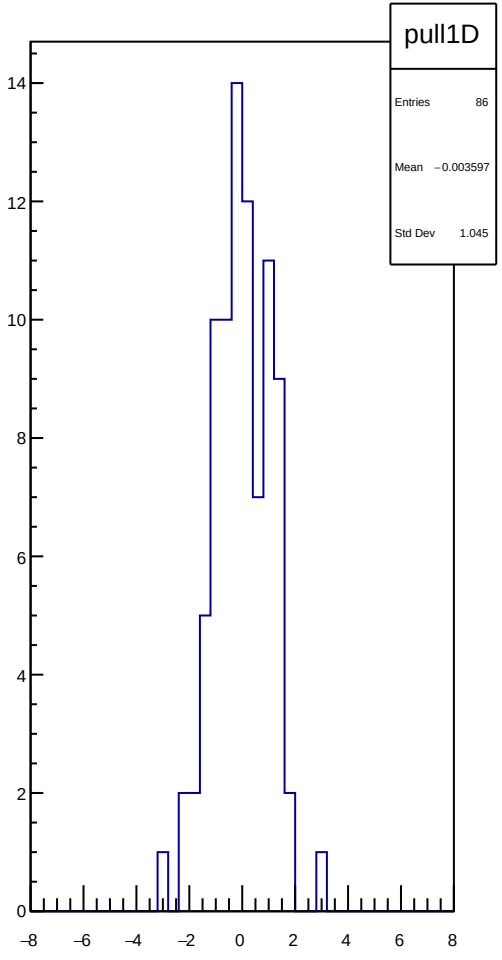

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 168.8 / 85
p0 2202 ± 1.697
2300
2250
2200
2150
2100

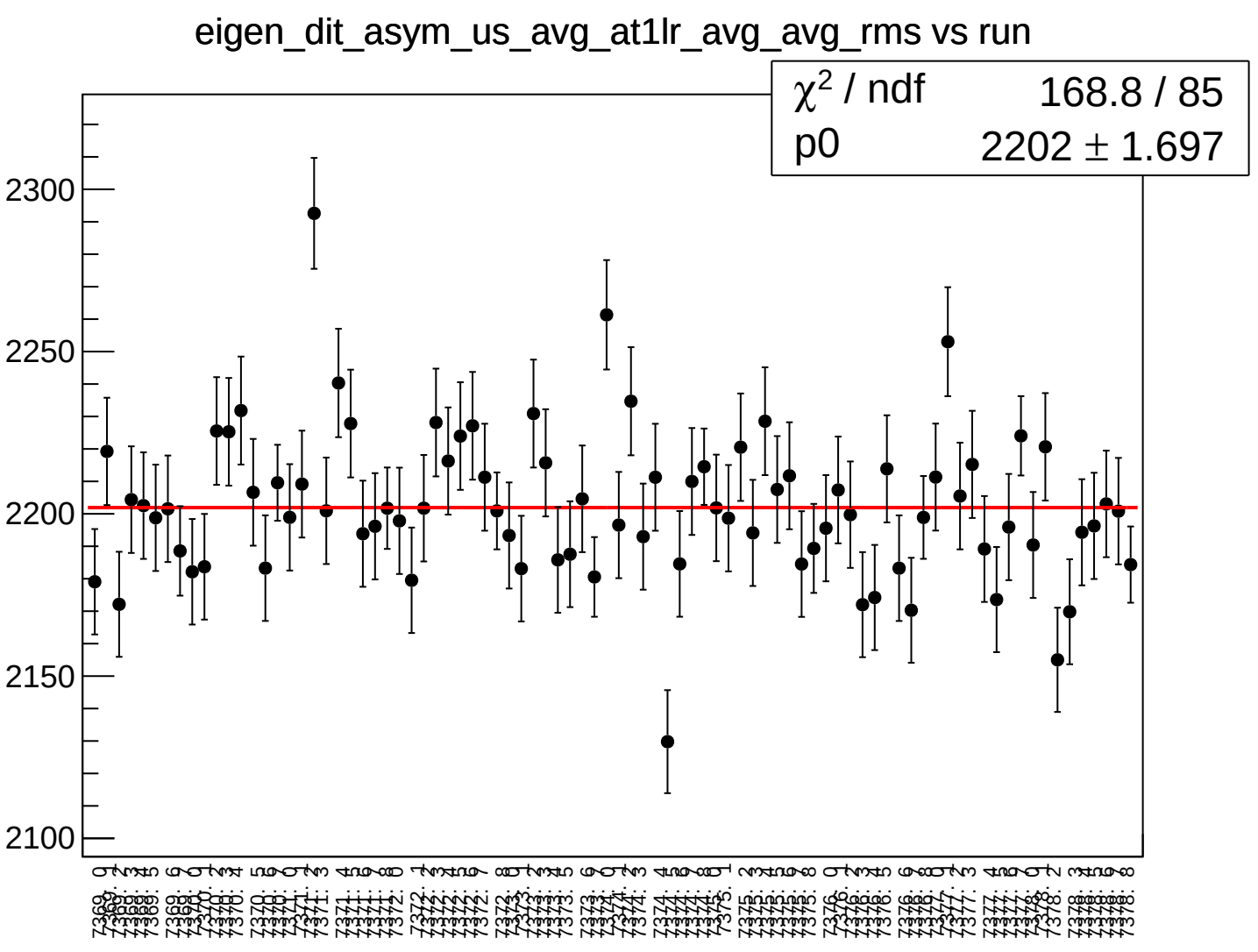

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.96 / 85
p0 −2444 ± 2262
pull
Entries 86
Mean −487.6
Std Dev 0

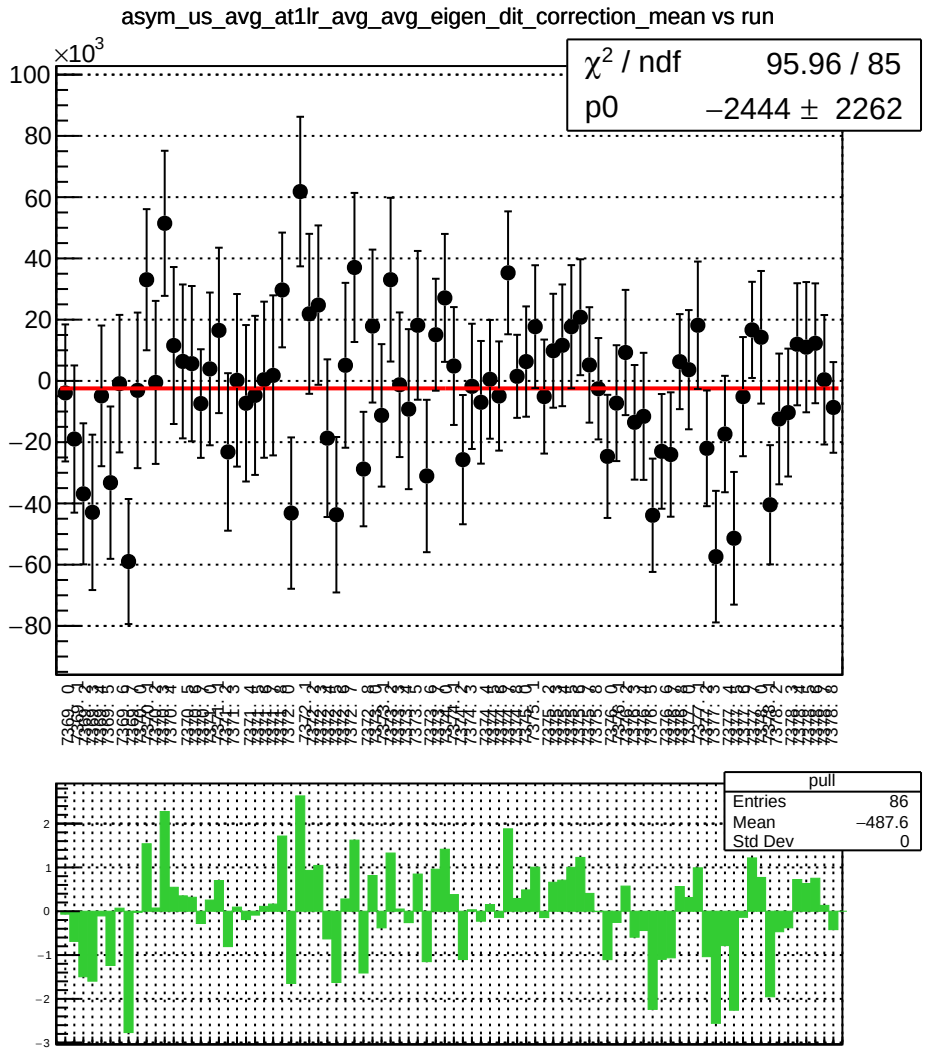

pull1D
Entries 86
Mean 0.002225
Std Dev 1.056

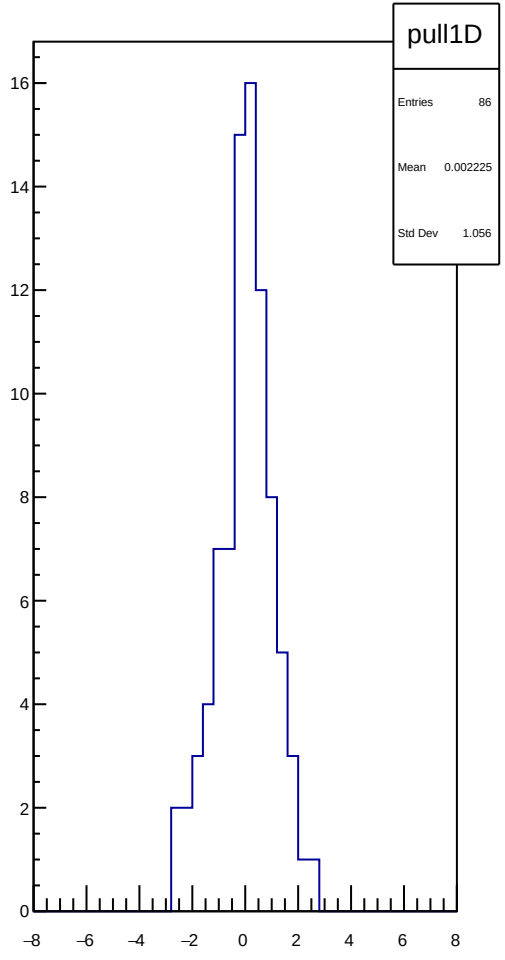

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.545e+04 / 85
p0 2060 ± 1.6
2600
2400
2200
2000
1800
1600

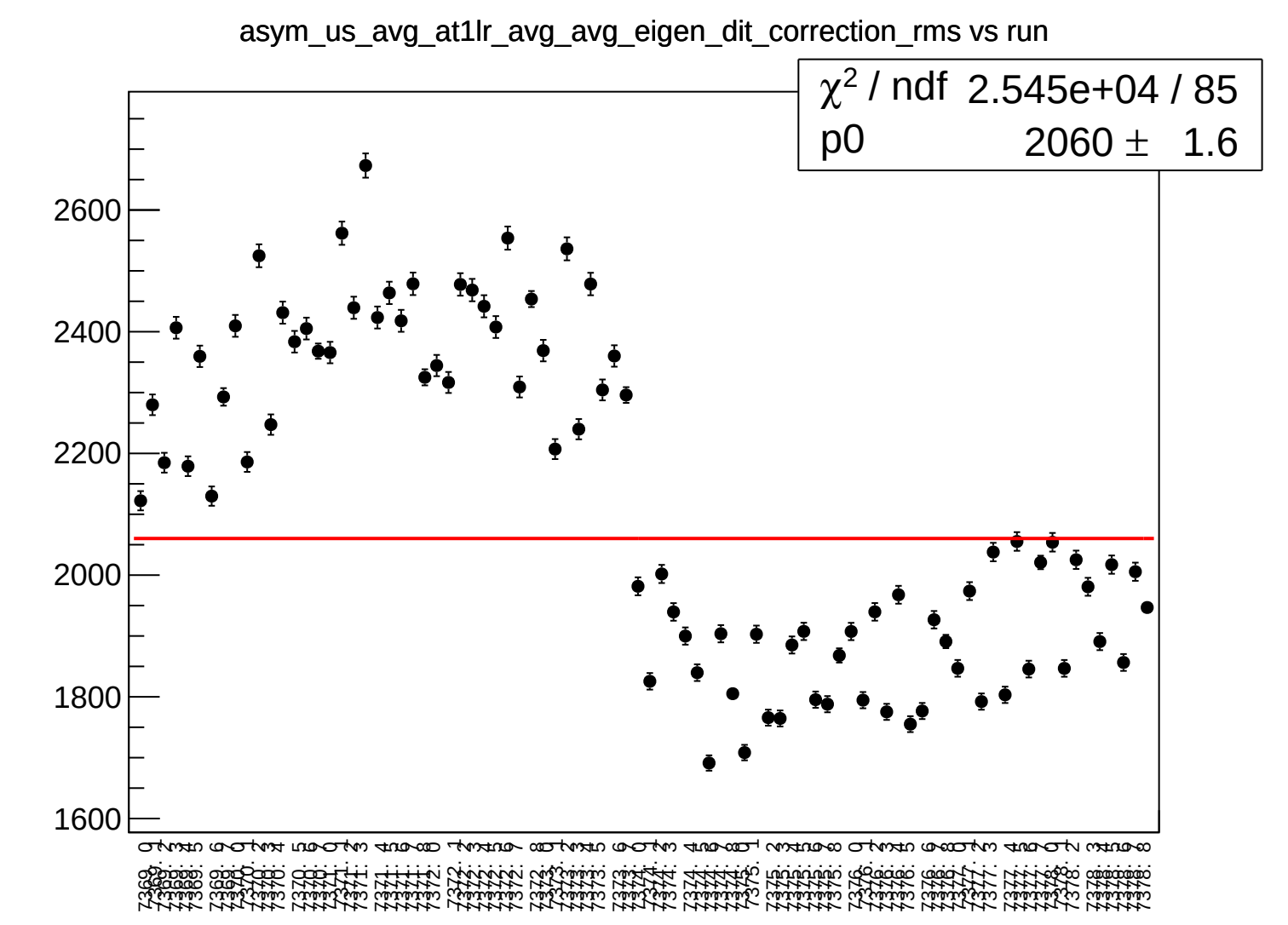

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 93.87 / 85
p0 449.3 ± 2400
100
50
0
−50
−100
pull
Entries 86
Mean −303.9
Std Dev 0
3
2
1
0
−1
−2
−3

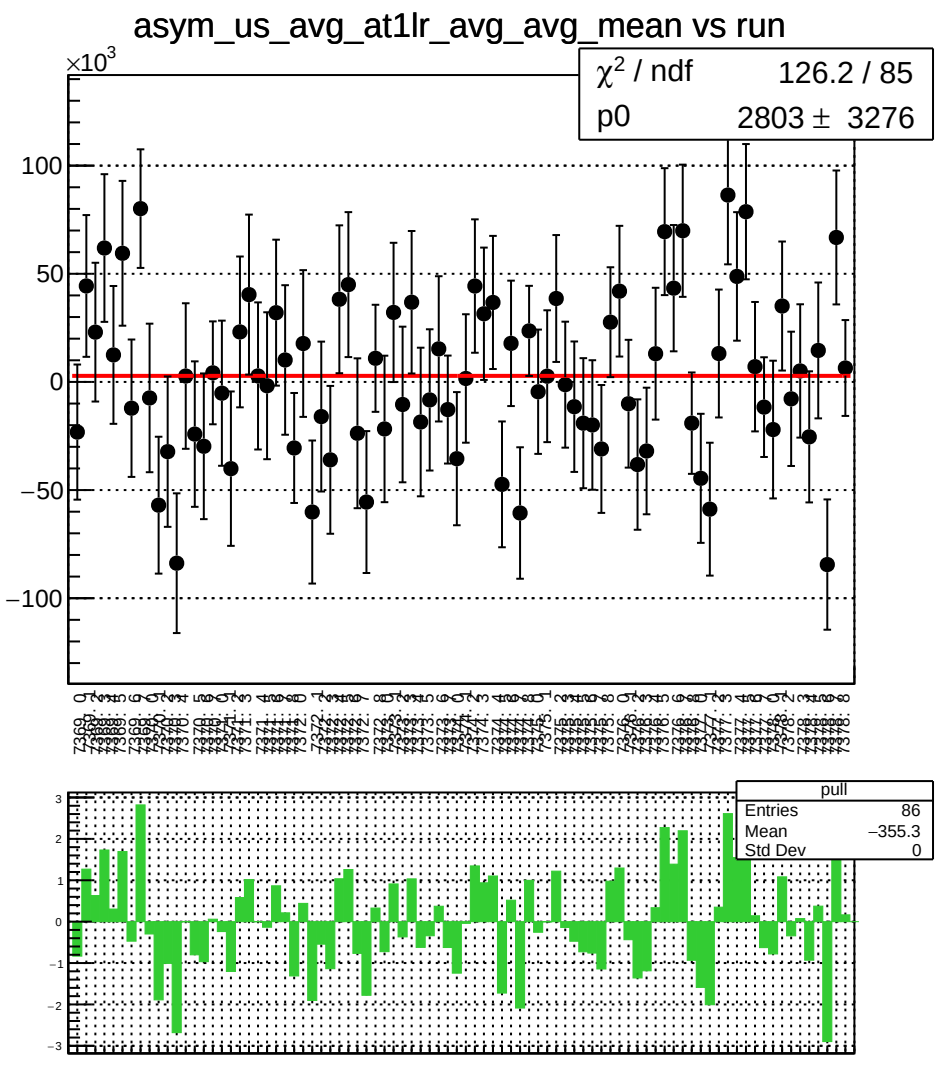

pull1D
Entries 86
Mean −0.003597
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

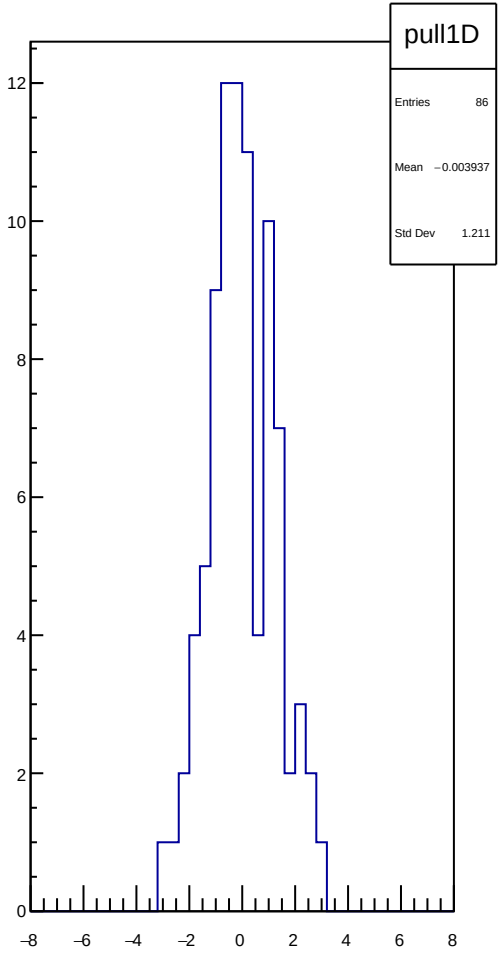

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 168.8 / 85
p0 2202 ± 1.697
2300
2250
2200
2150
2100

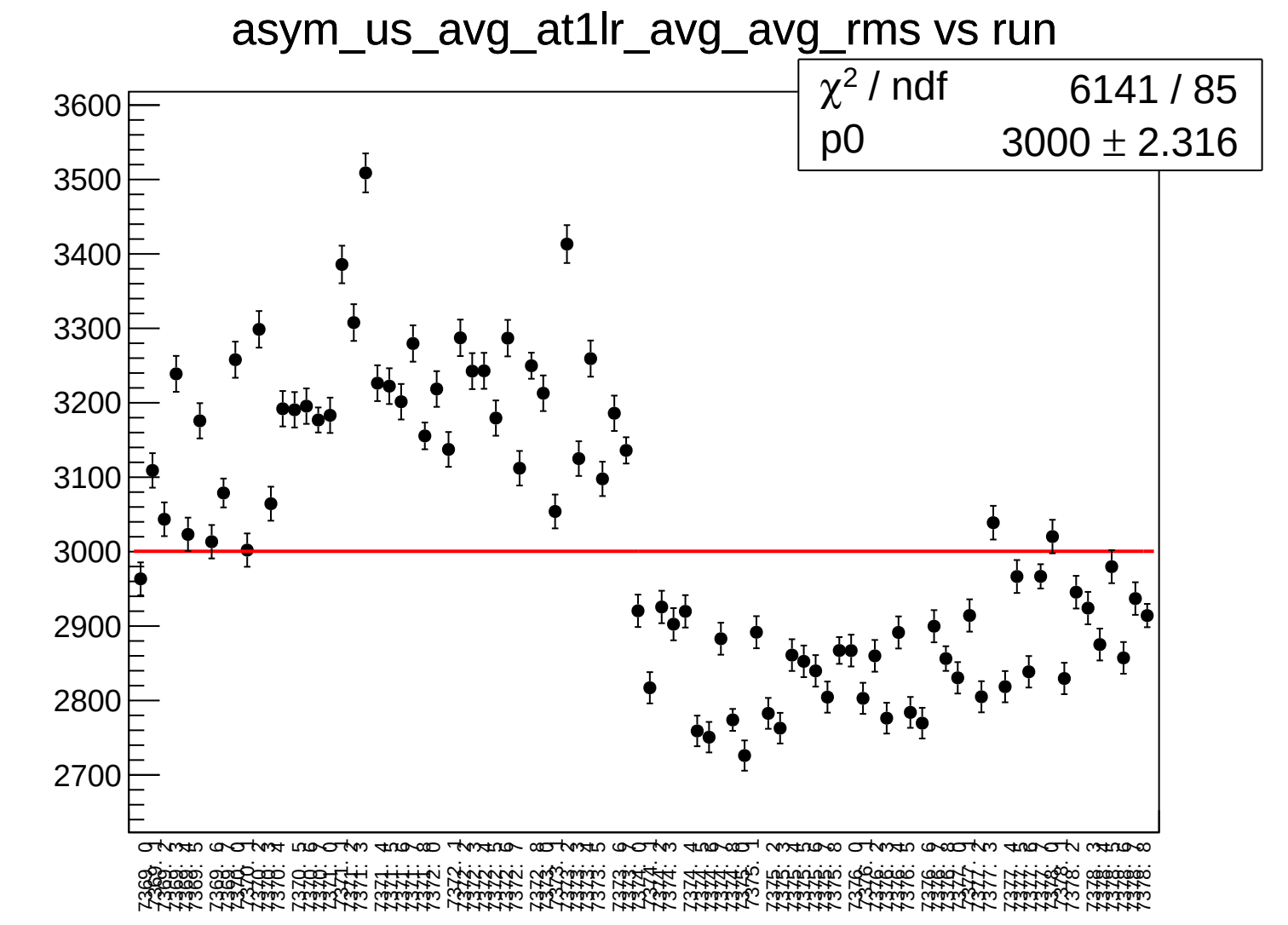

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.96 / 85
p0 −2444 ± 2262
pull
Entries 86
Mean −487.6
Std Dev 0

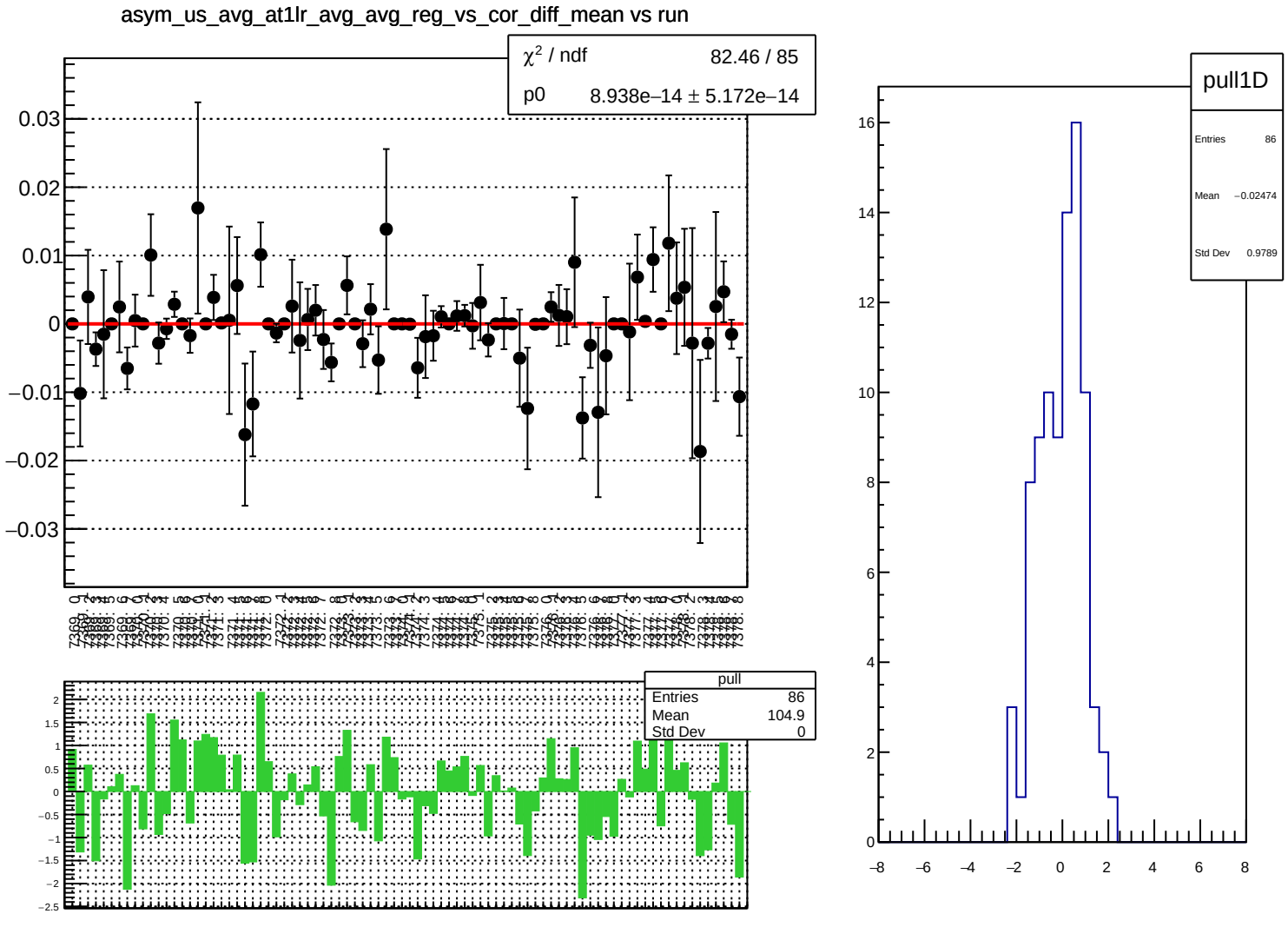

pull1D
Entries 86
Mean 0.002225
Std Dev 1.056

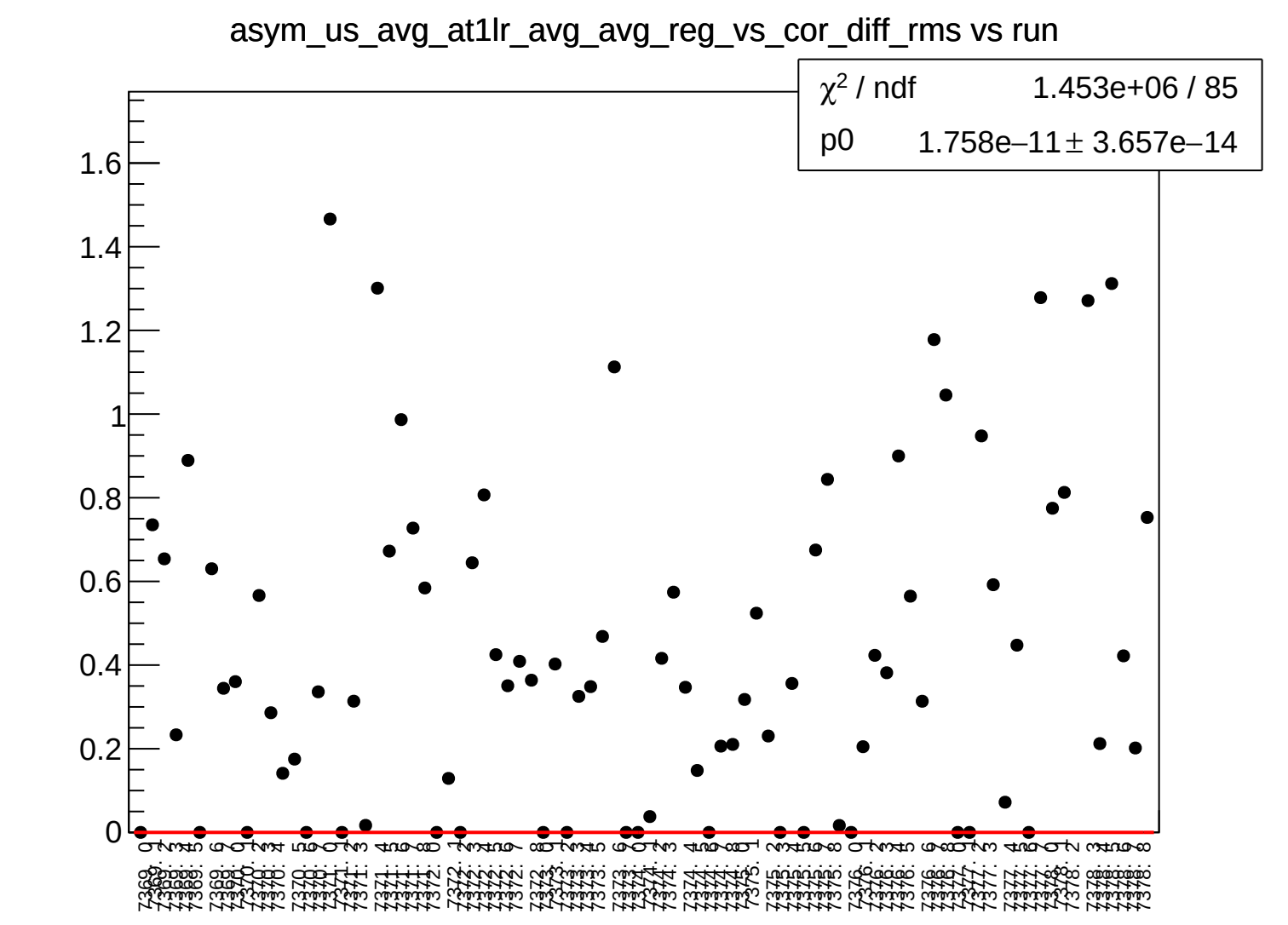

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.545e+04 / 85
p0 2060 ± 1.6
2600
2400
2200
2000
1800
1600

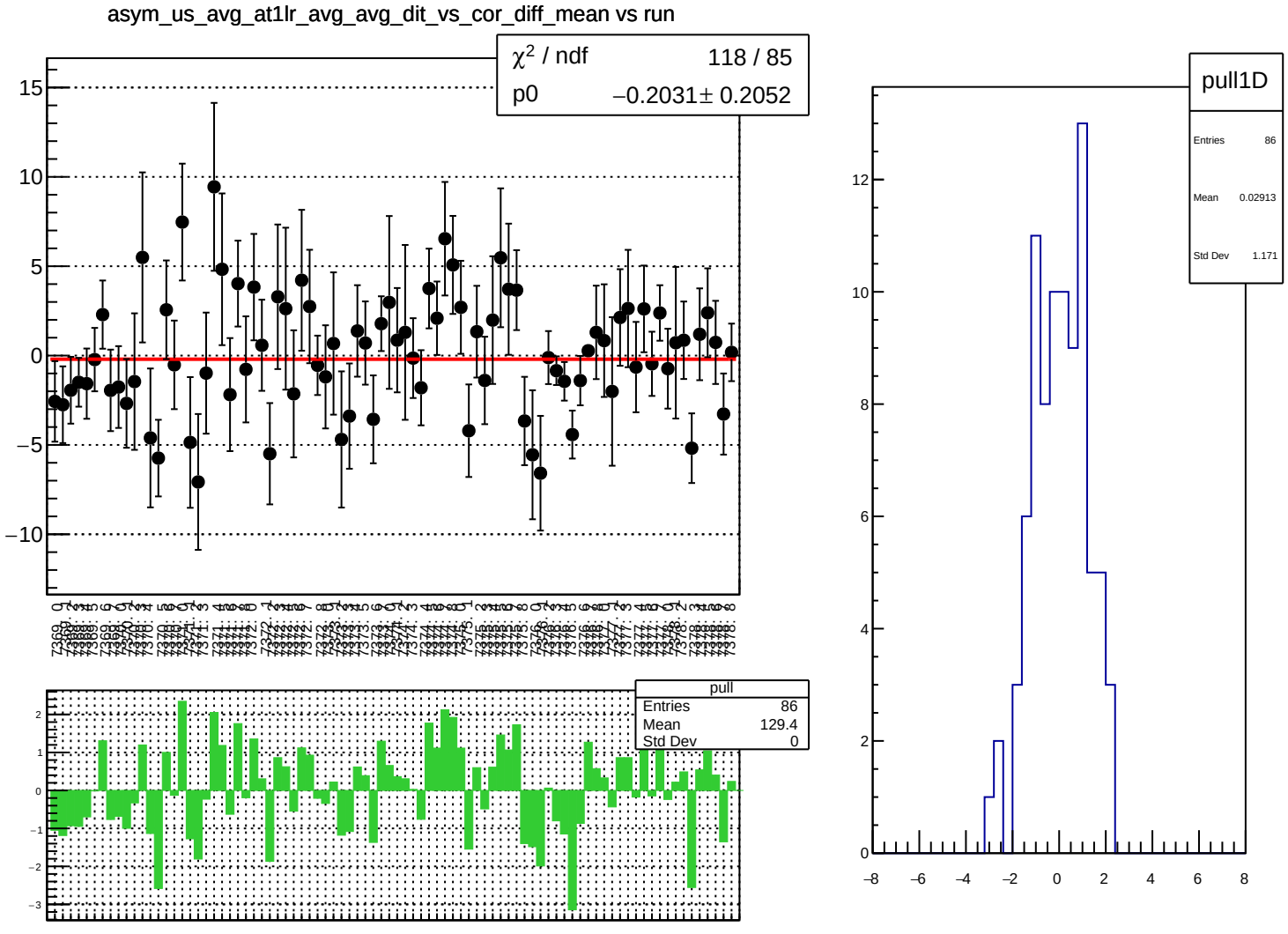

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 126.2 / 85
p0 2803 ± 3276
100
50
0
−50
−100
pull
Entries 86
Mean −355.3
Std Dev 0
3
2
1
0
−1
−2
−3

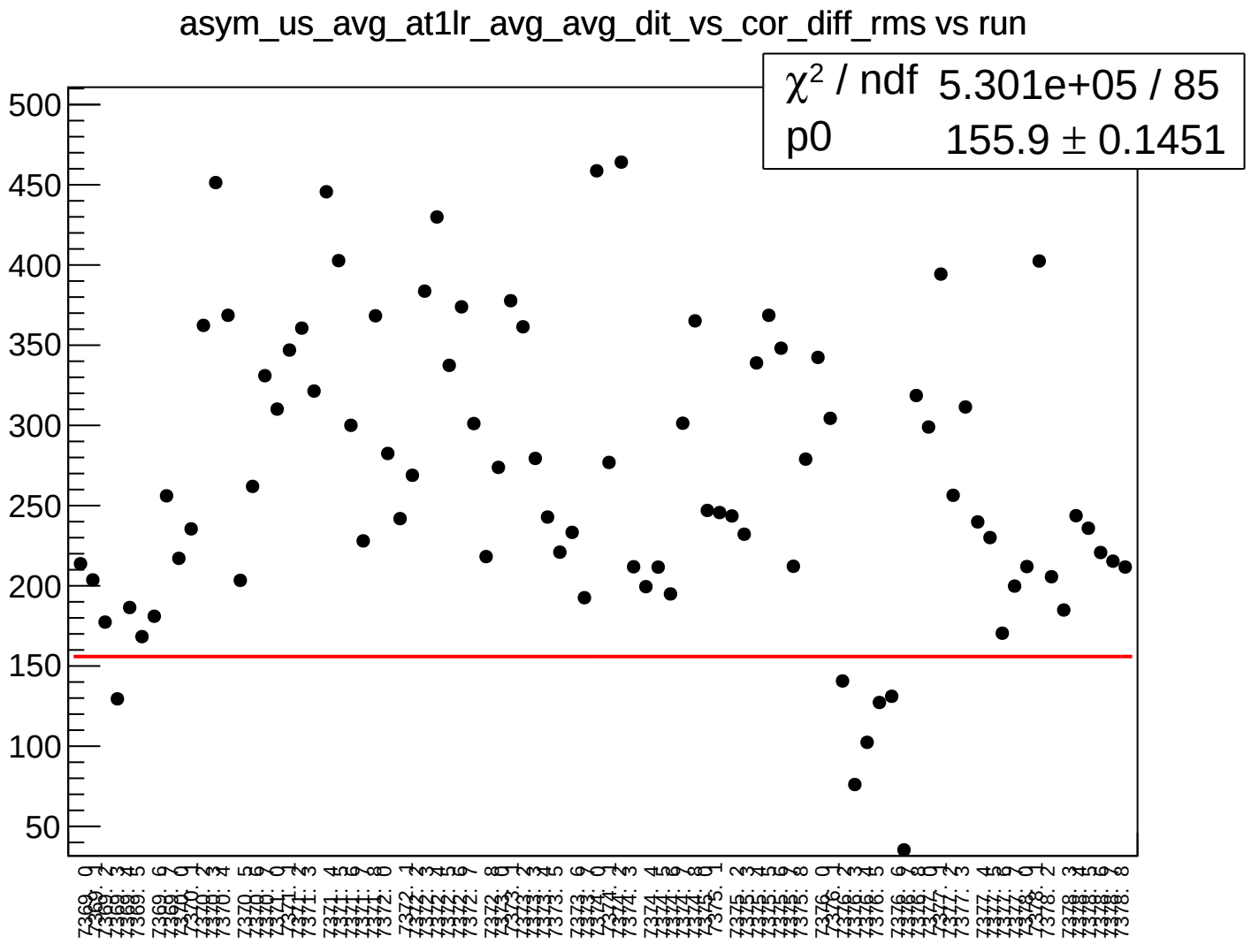

pull1D
Entries 86
Mean −0.003937
Std Dev 1.211
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

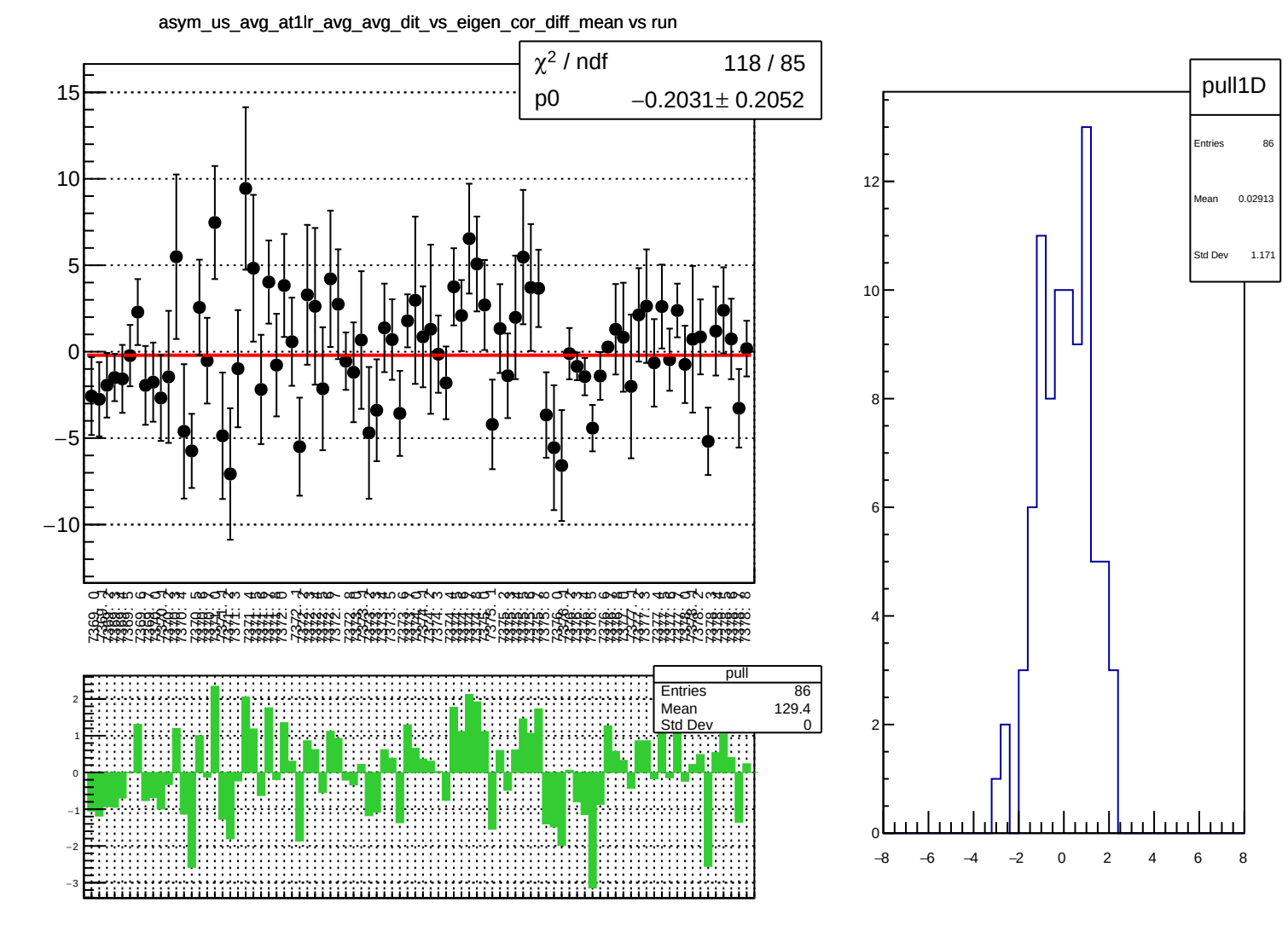

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 6141 / 85
p0 3000 ± 2.316
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700

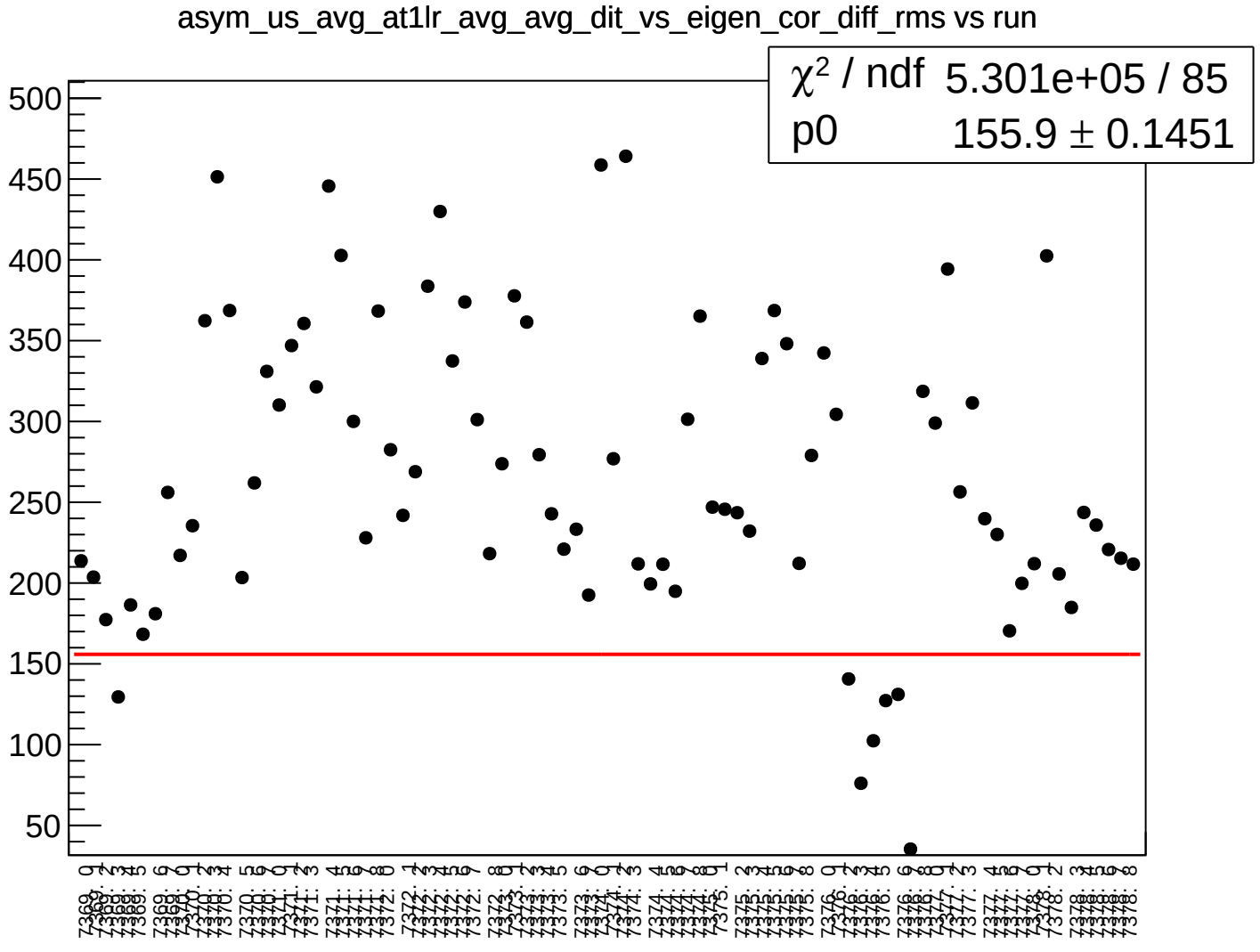

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.46 / 85
p0 8.938e−14 ± 5.172e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 104.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 86
Mean −0.02474
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

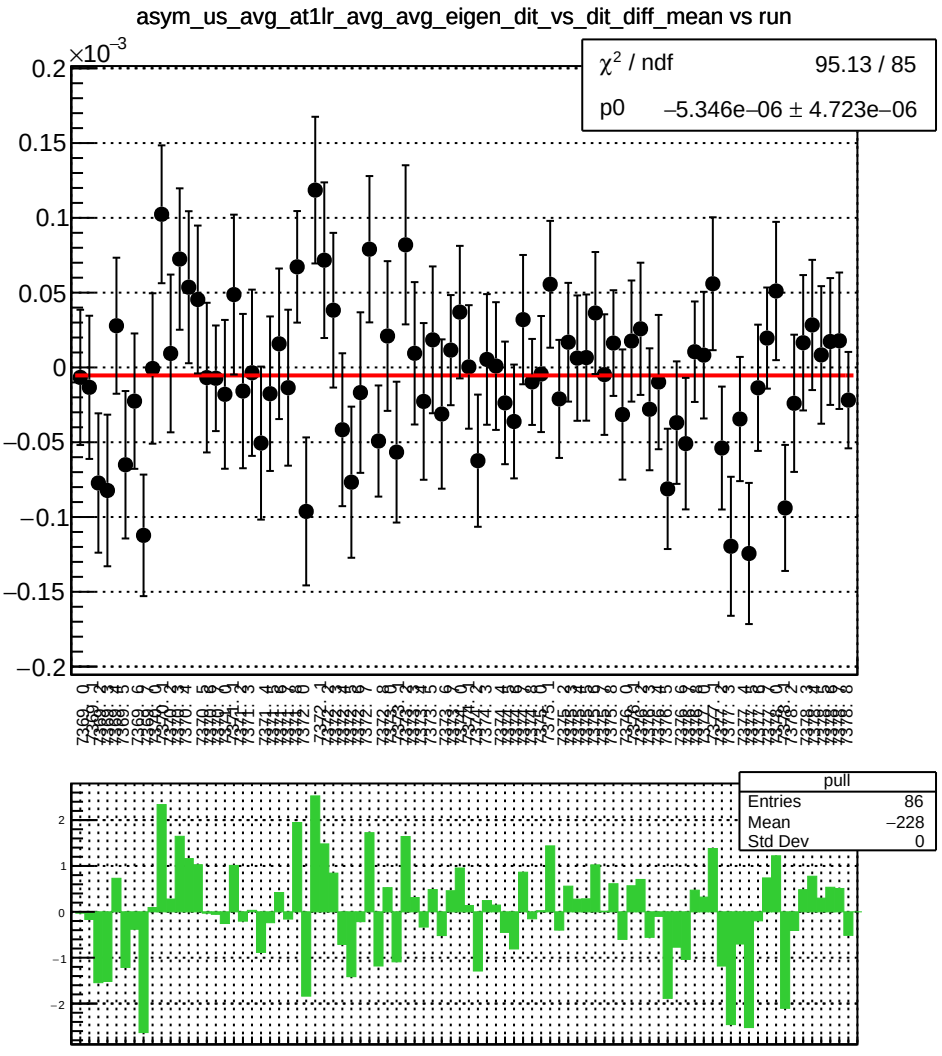

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.453e+06 / 85
p0 1.758e−11 ± 3.657e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

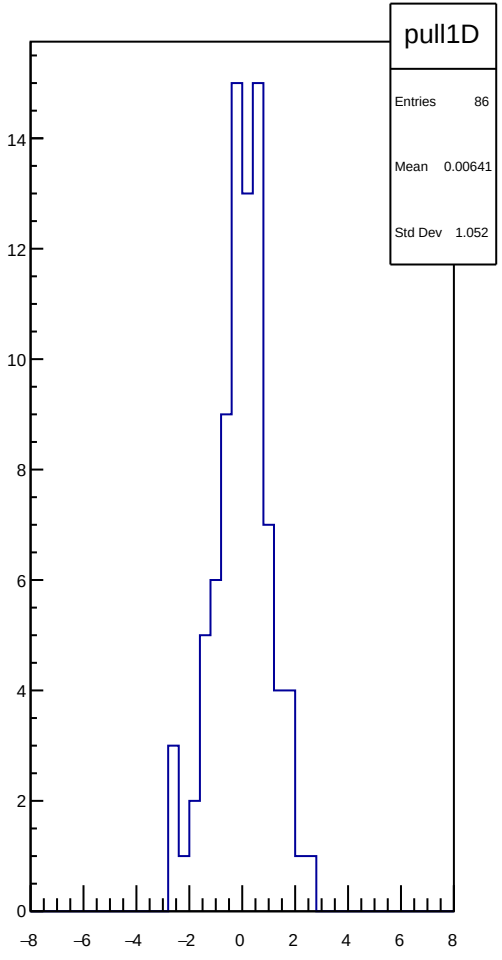

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 118 / 85
p0 −0.2031± 0.2052
pull
Entries 86
Mean 129.4
Std Dev 0
pull1D
Entries 86
Mean 0.02913
Std Dev 1.171

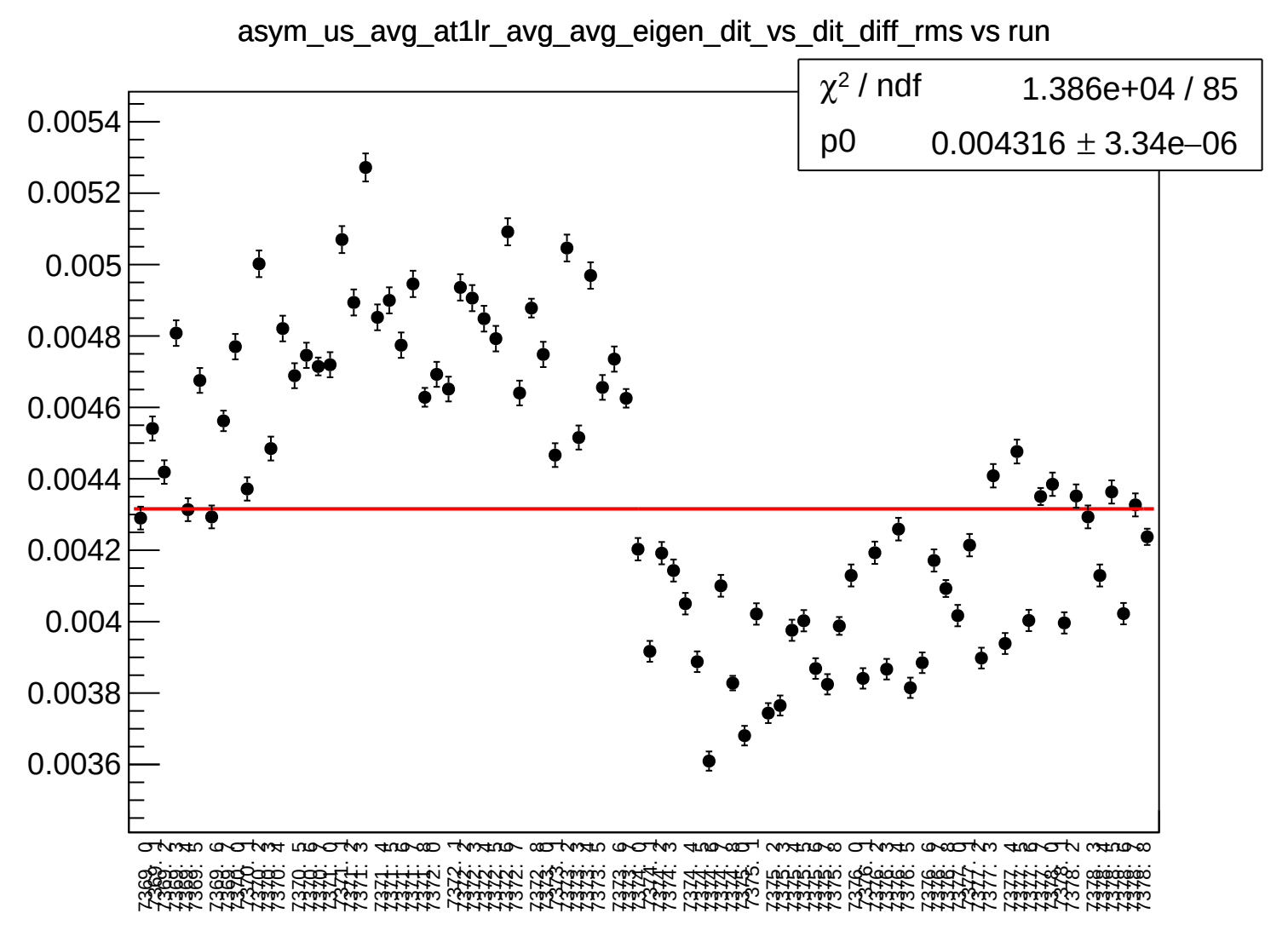

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.301e+05 / 85
p0 155.9 ± 0.1451
500
450
400
350
300
250
200
150
100
50

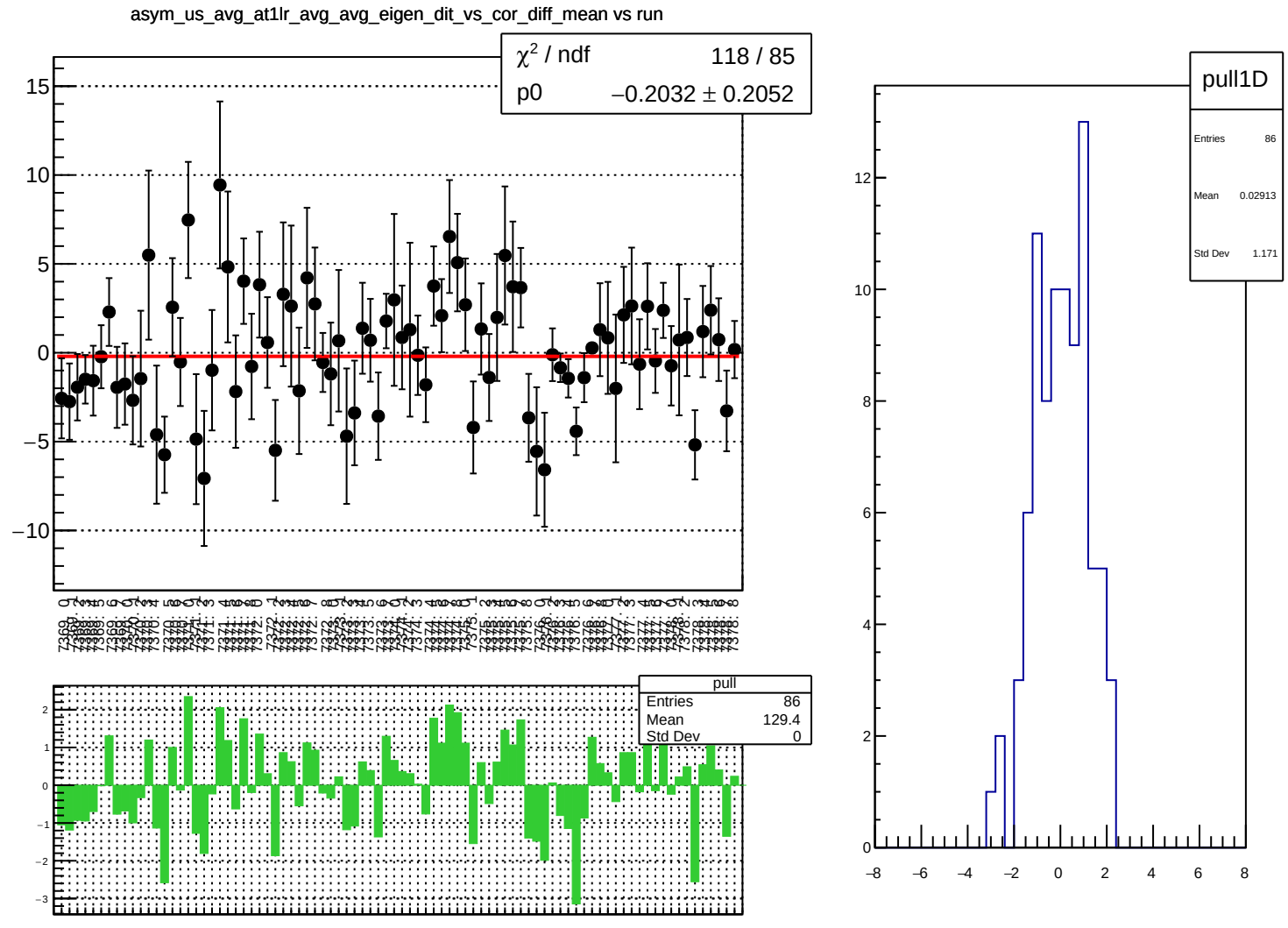

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118 / 85
p0 −0.2031± 0.2052
pull
Entries 86
Mean 129.4
Std Dev 0
pull1D
Entries 86
Mean 0.02913
Std Dev 1.171

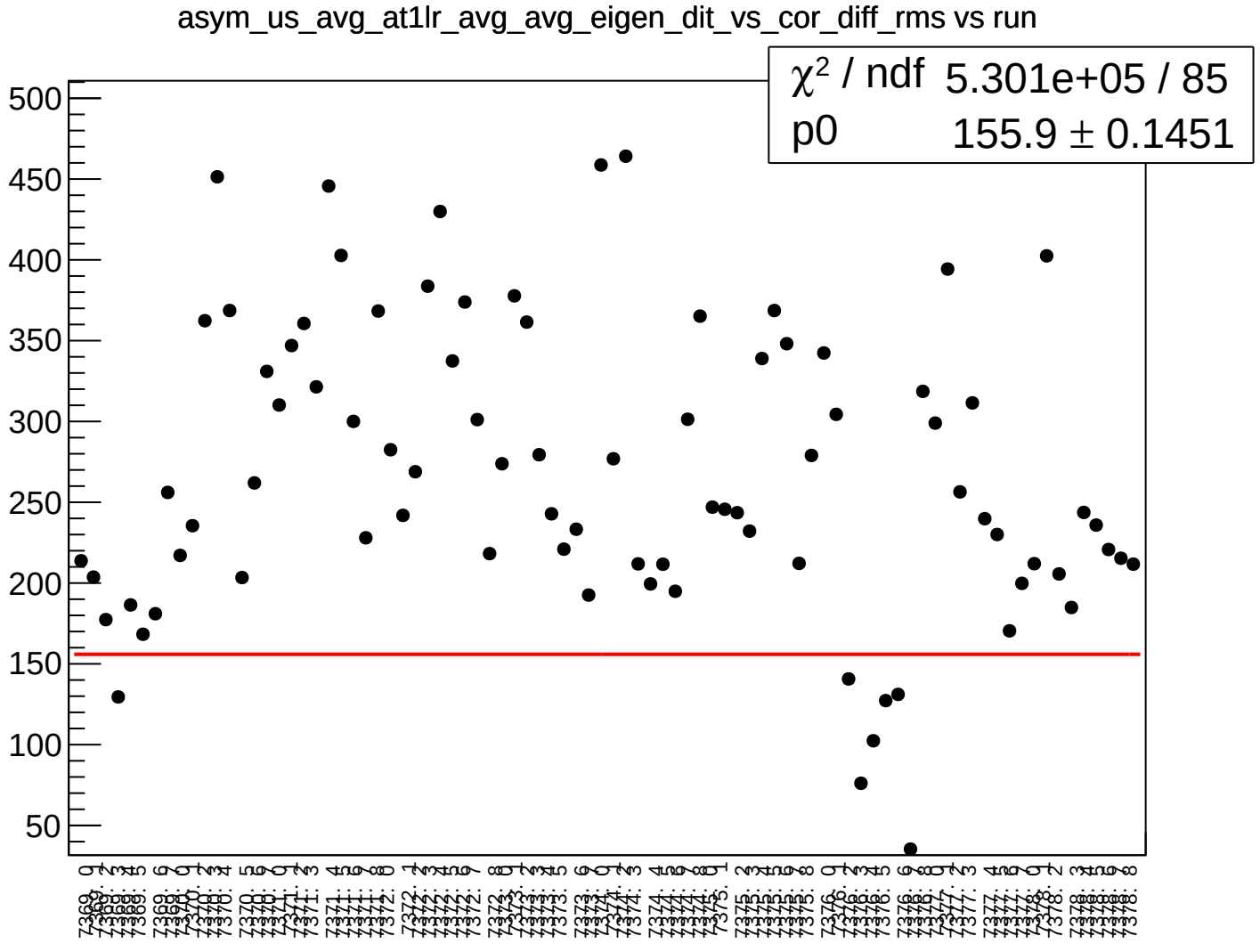

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.301e+05 / 85
p0 155.9 ± 0.1451
500
450
400
350
300
250
200
150
100
50

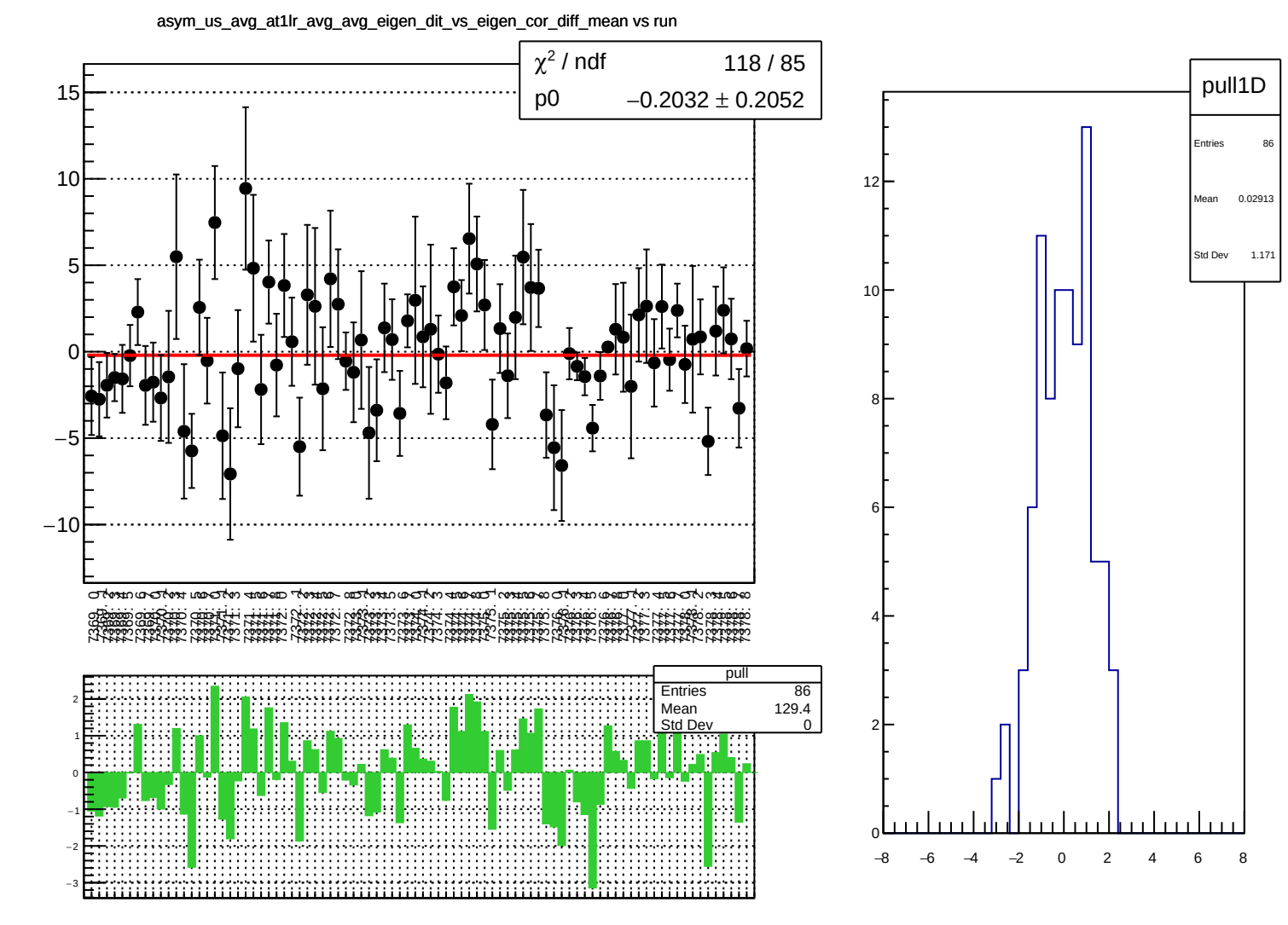

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.13 / 85
p0 −5.346e−06 ± 4.723e−06
pull
Entries 86
Mean −228
Std Dev 0

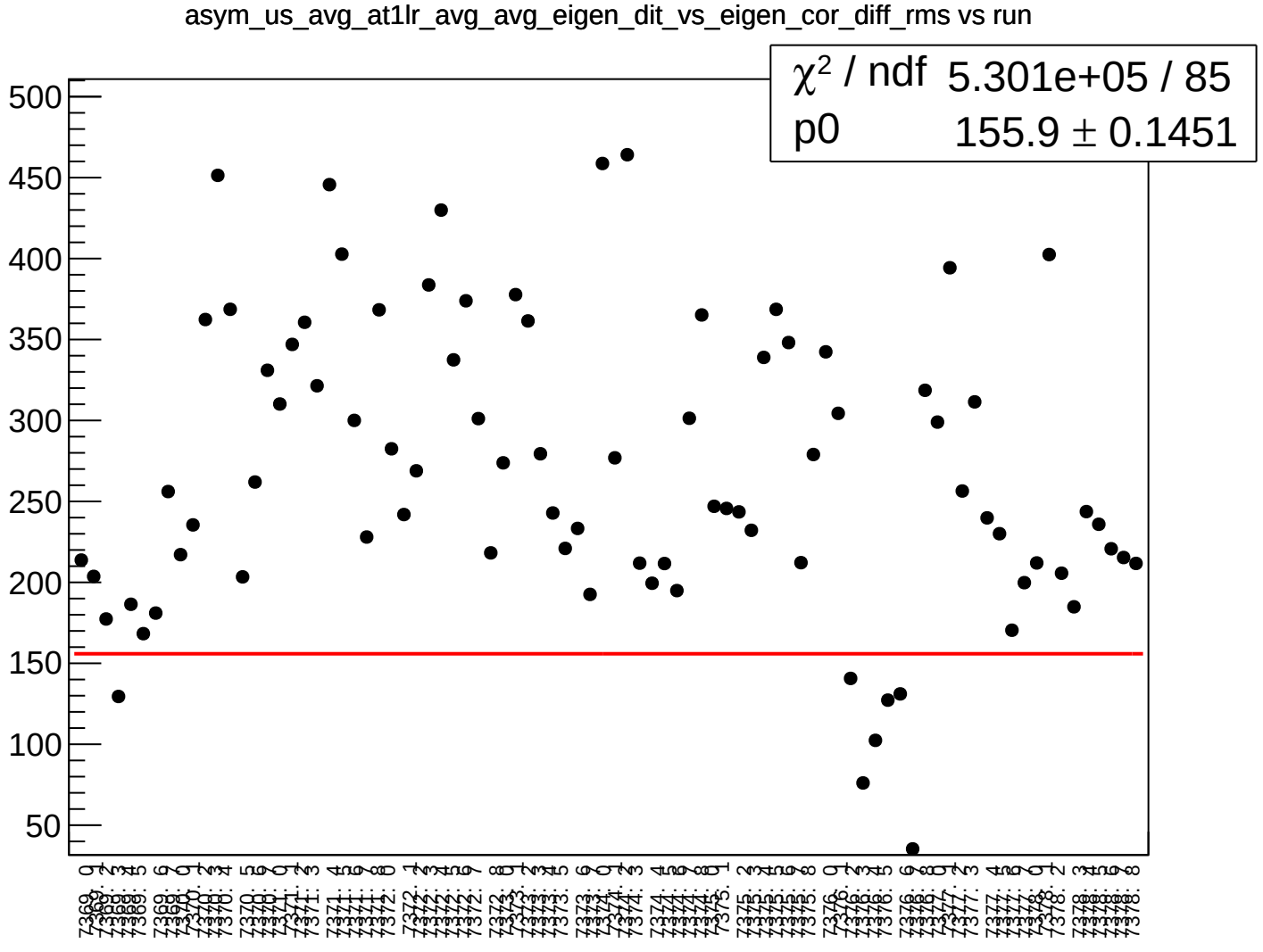

pull1D
Entries 86
Mean 0.00641
Std Dev 1.052

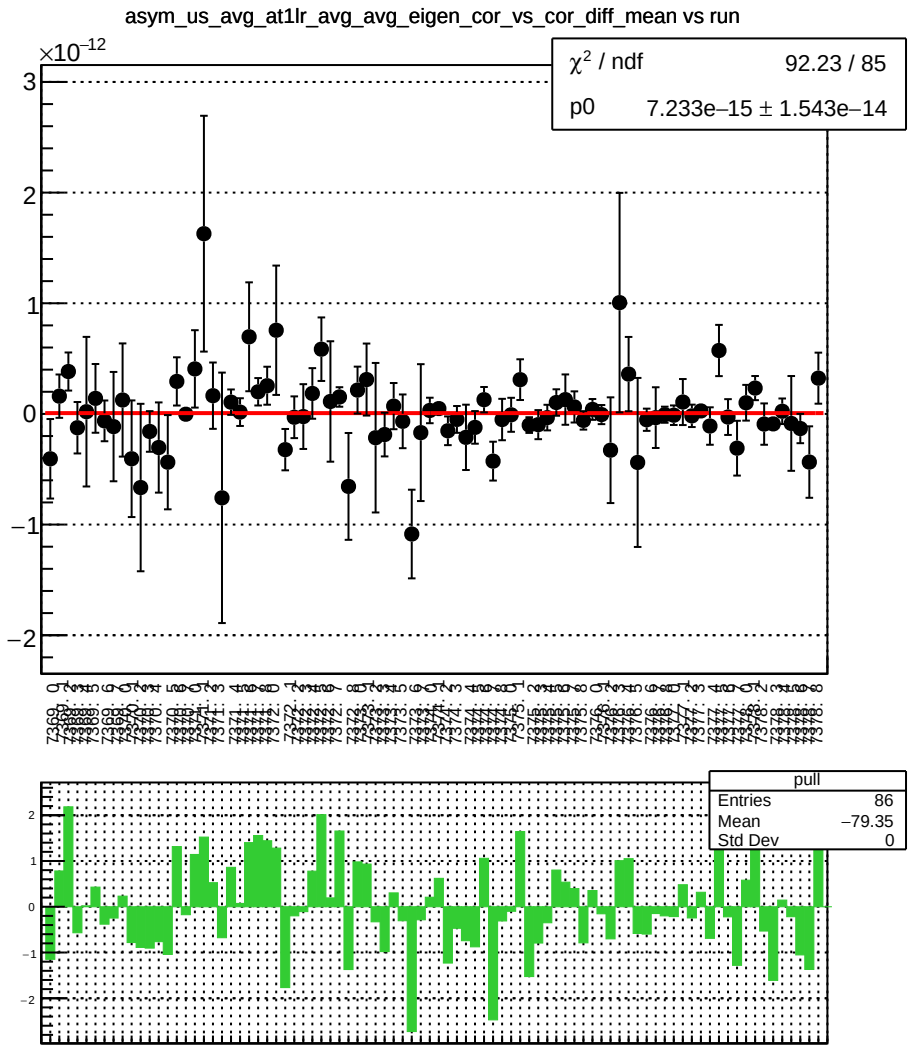

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.386e+04 / 85
p0 0.004316 ± 3.34e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

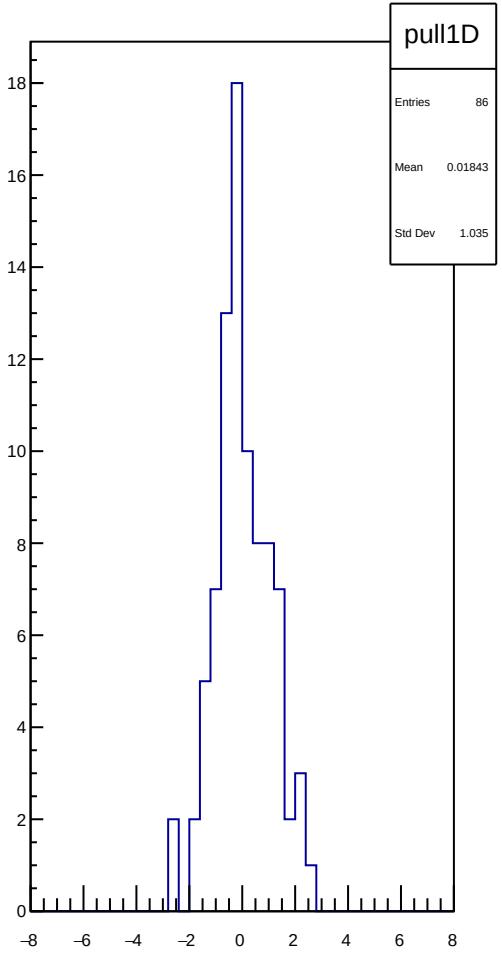

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118 / 85
p0 −0.2032 ± 0.2052
pull
Entries 86
Mean 129.4
Std Dev 0
pull1D
Entries 86
Mean 0.02913
Std Dev 1.171

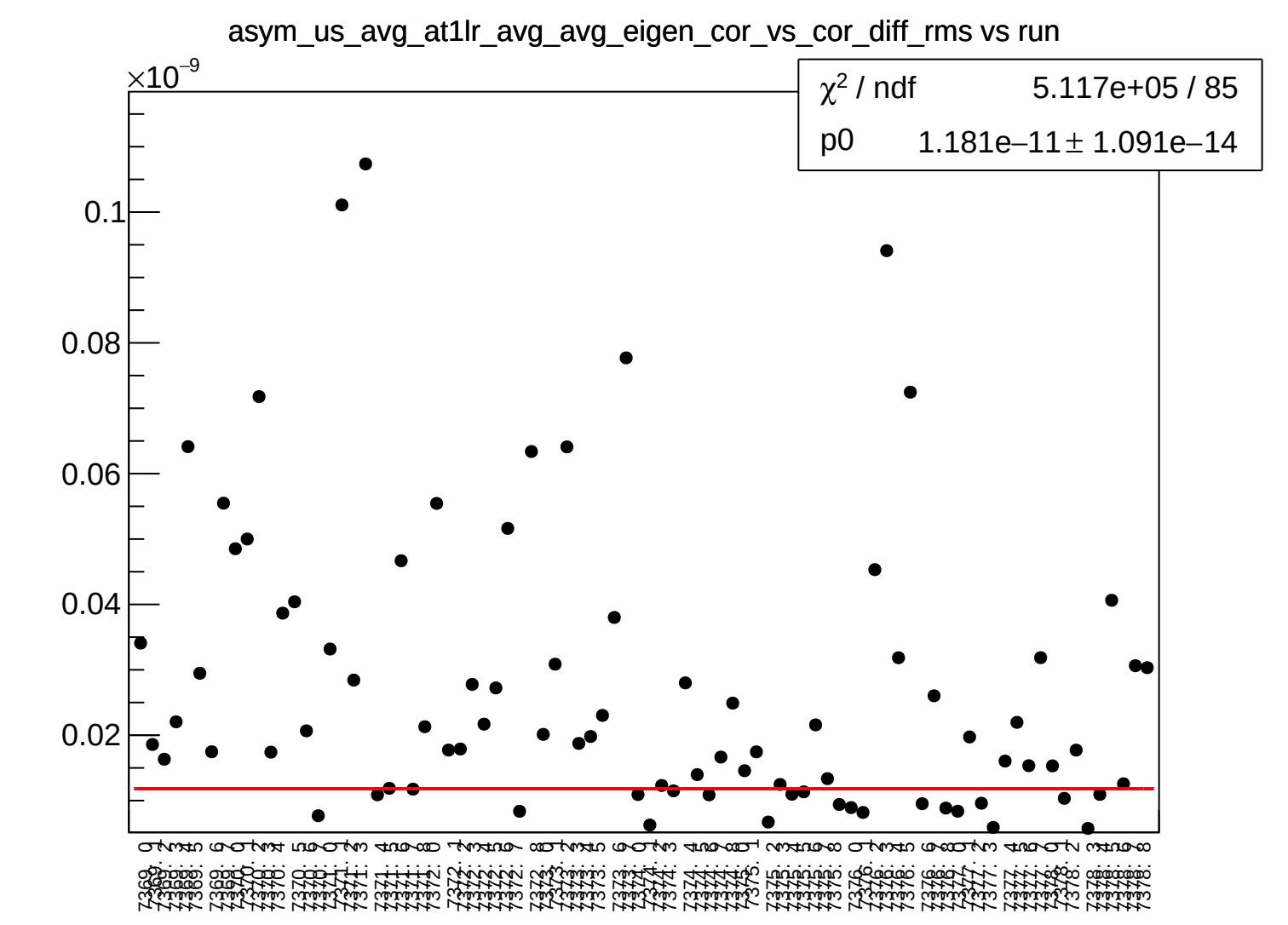

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.301e+05 / 85
p0 155.9 ± 0.1451
500
450
400
350
300
250
200
150
100
50

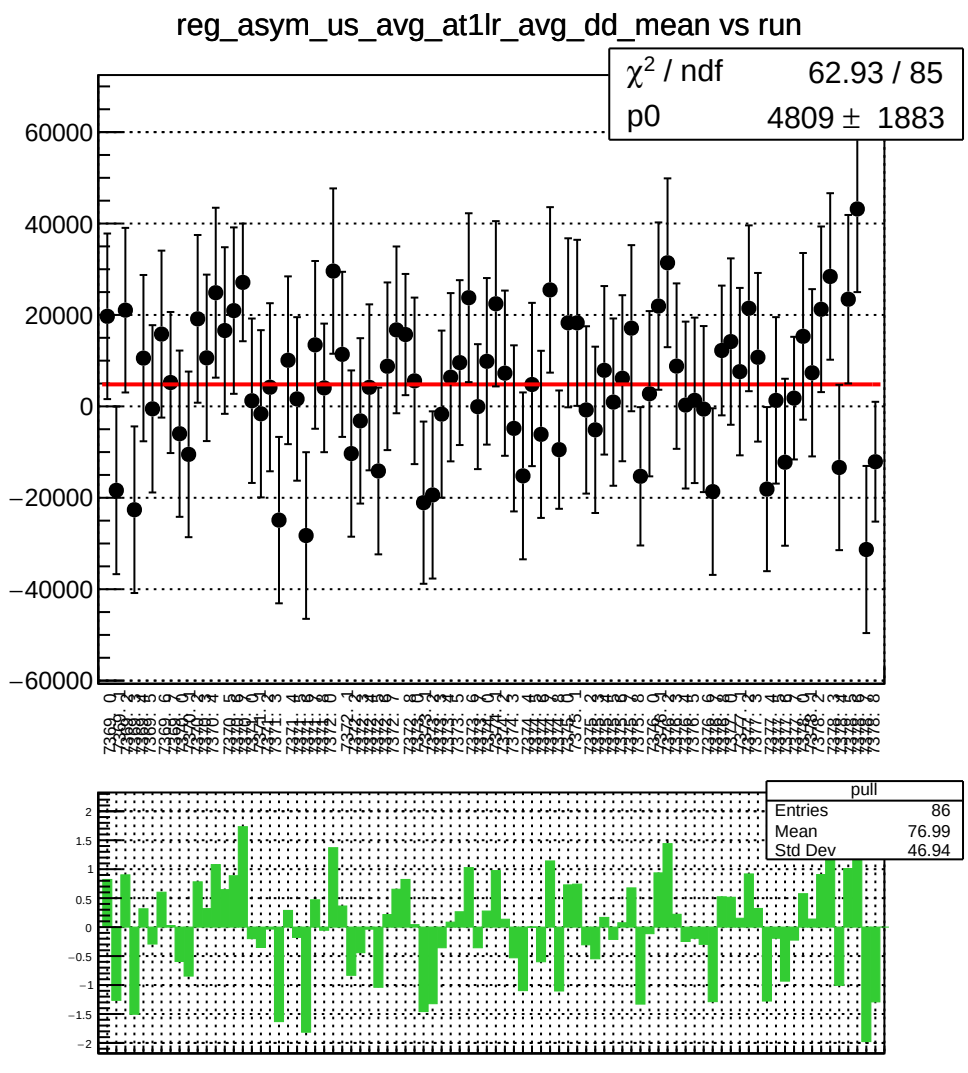

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118 / 85
p0 −0.2032 ± 0.2052
pull
Entries 86
Mean 129.4
Std Dev 0
pull1D
Entries 86
Mean 0.02913
Std Dev 1.171

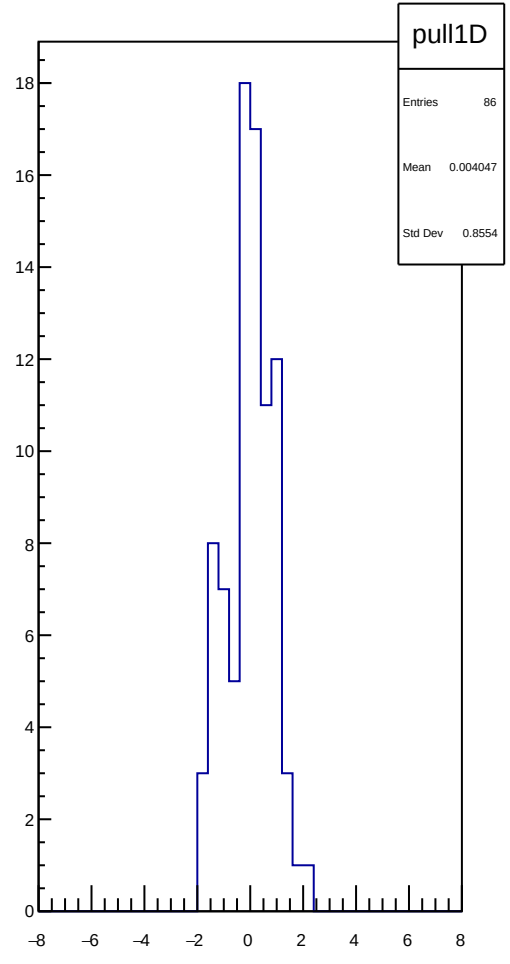

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.301e+05 / 85
p0 155.9 ± 0.1451
500
450
400
350
300
250
200
150
100
50

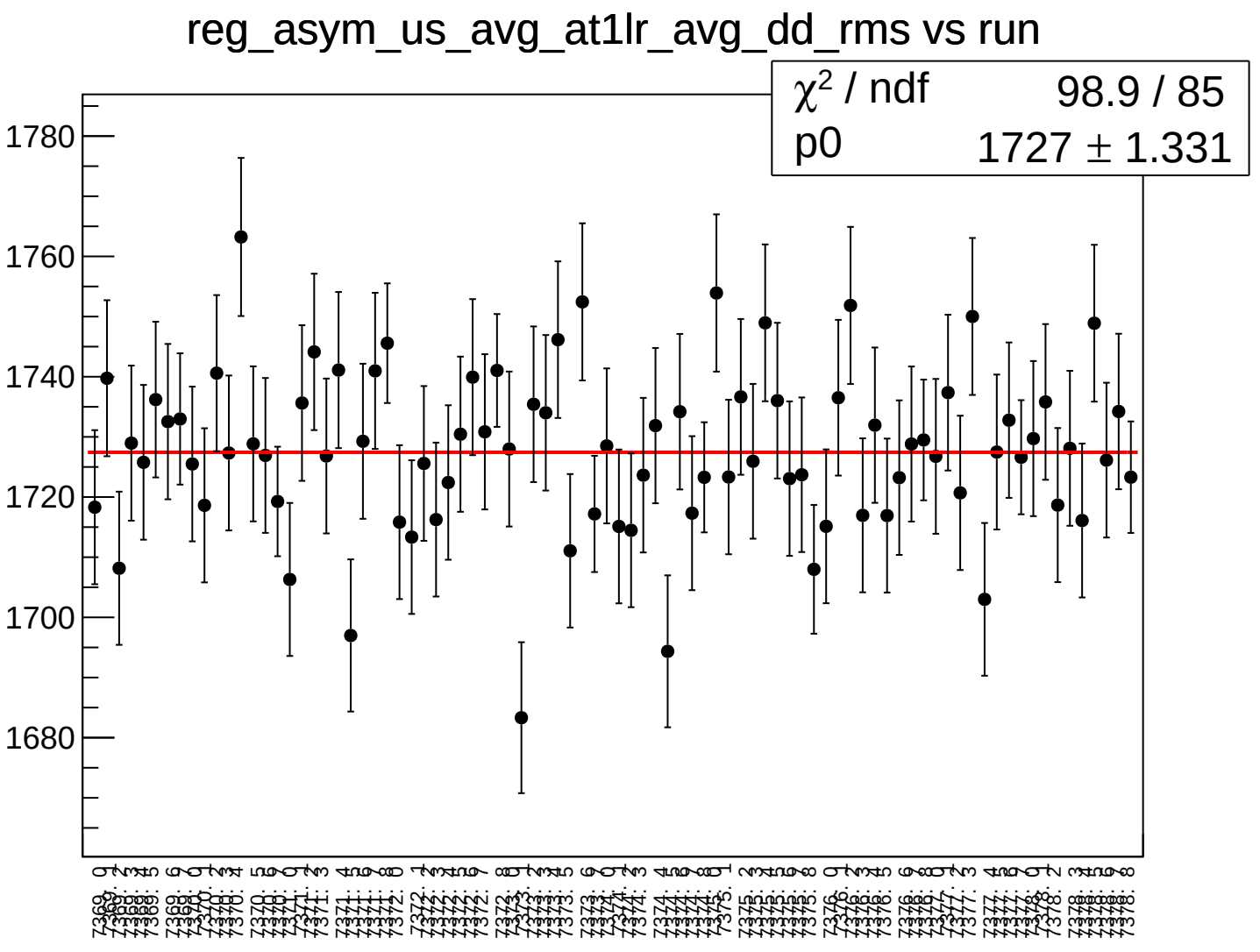

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.23 / 85
p0 7.233e−15 ± 1.543e−14
pull
Entries 86
Mean −79.35
Std Dev 0

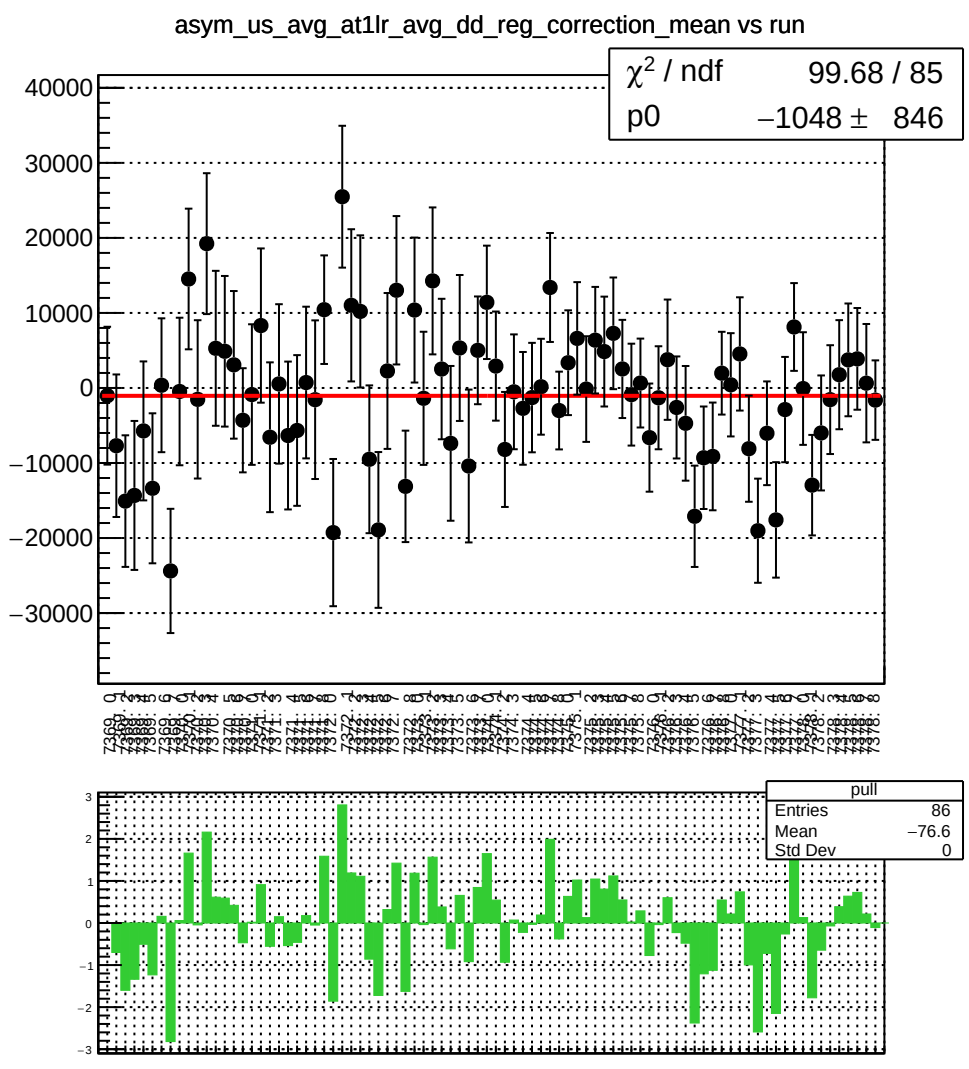

pull1D
Entries 86
Mean 0.01843
Std Dev 1.035

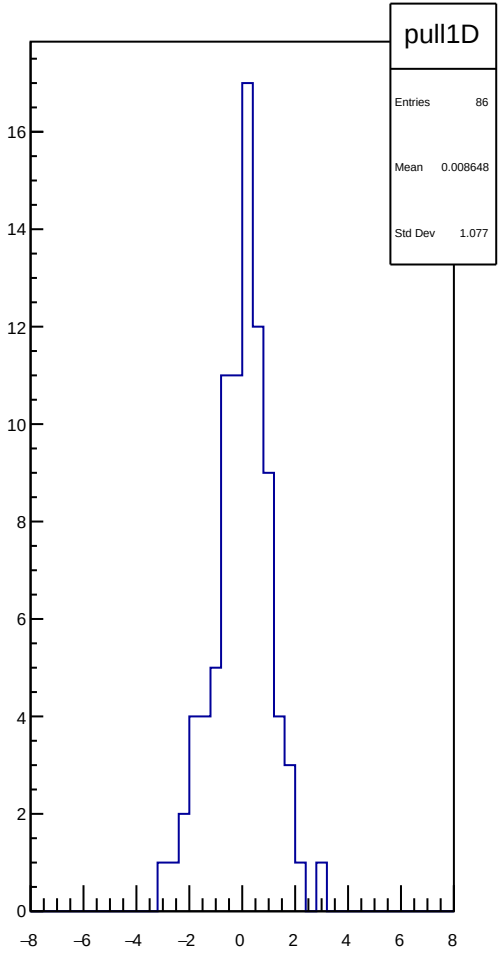

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.117e+05 / 85
p0 1.181e−11 ± 1.091e−14
0.1
0.08
0.06
0.04
0.02

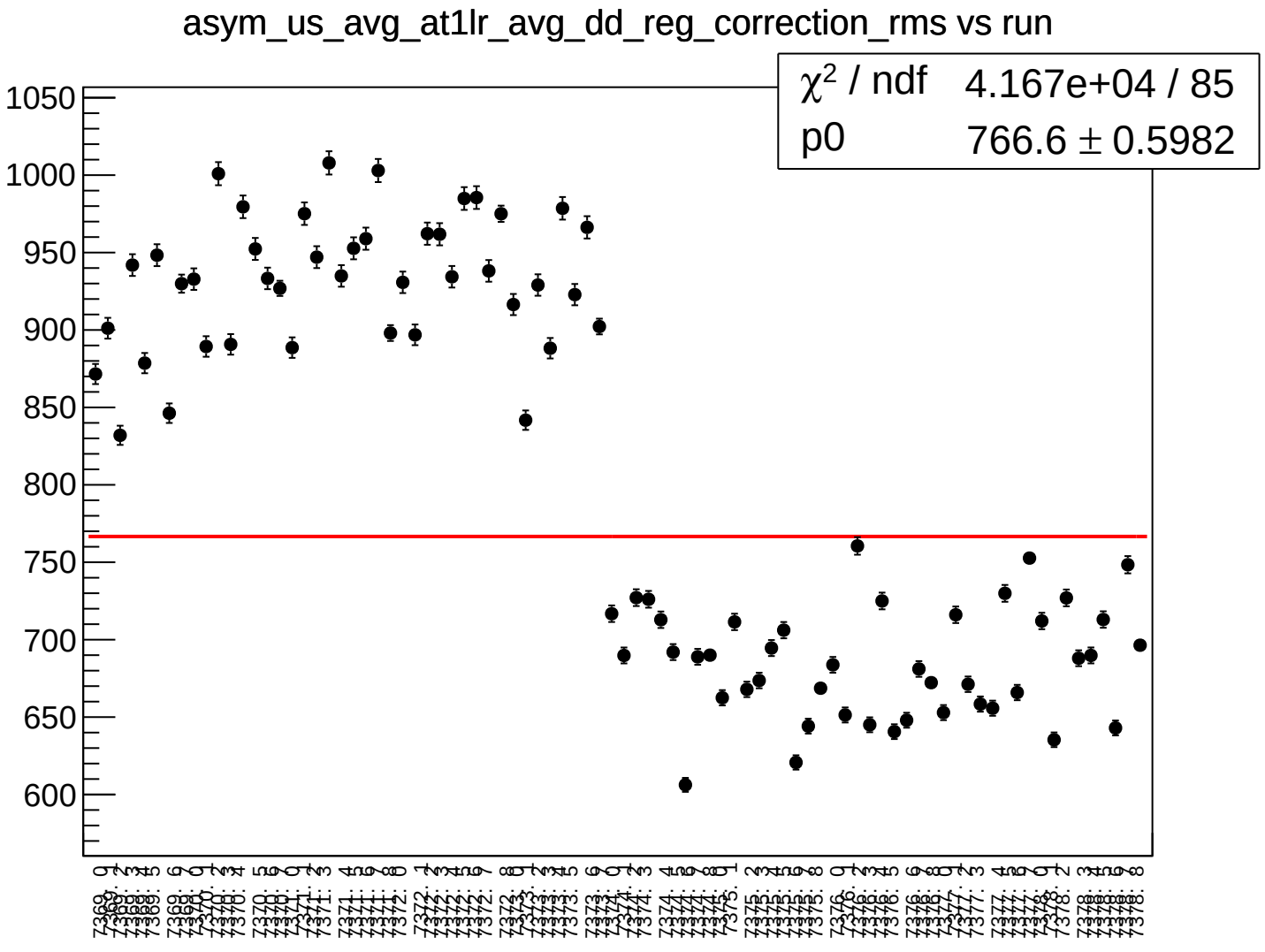

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 62.93 / 85
p0 4809 ± 1883
pull
Entries 86
Mean 76.99
Std Dev 46.94

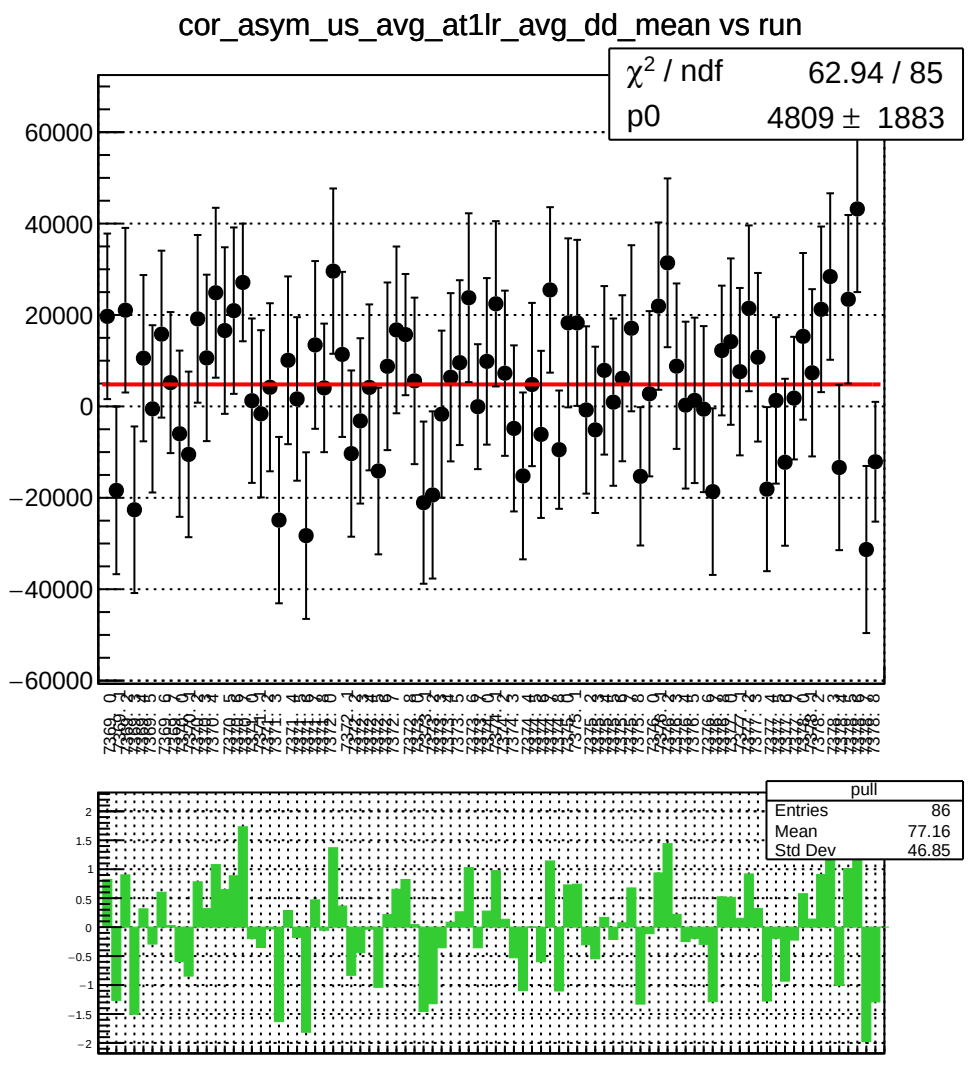

pull1D
Entries 86
Mean 0.004047
Std Dev 0.8554

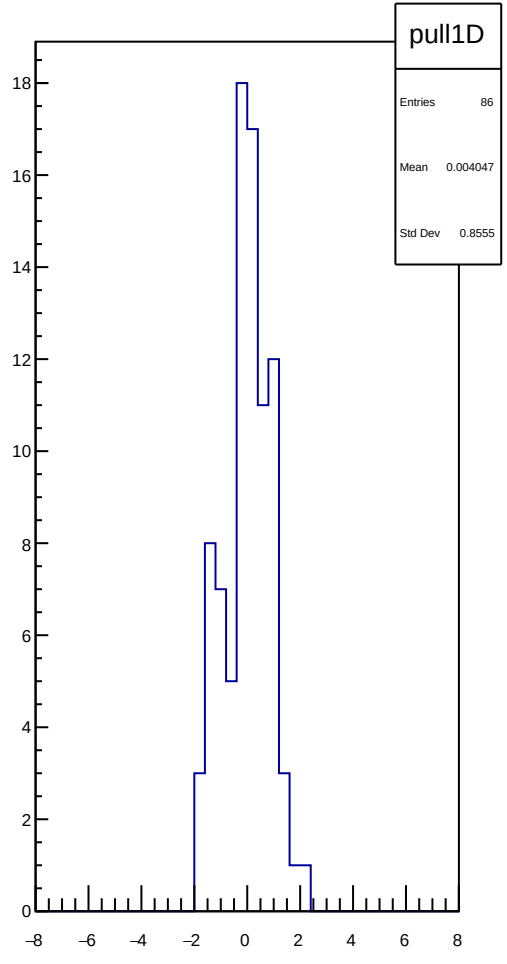

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 98.9 / 85
p0 1727 ± 1.331
1780
1760
1740
1720
1700
1680

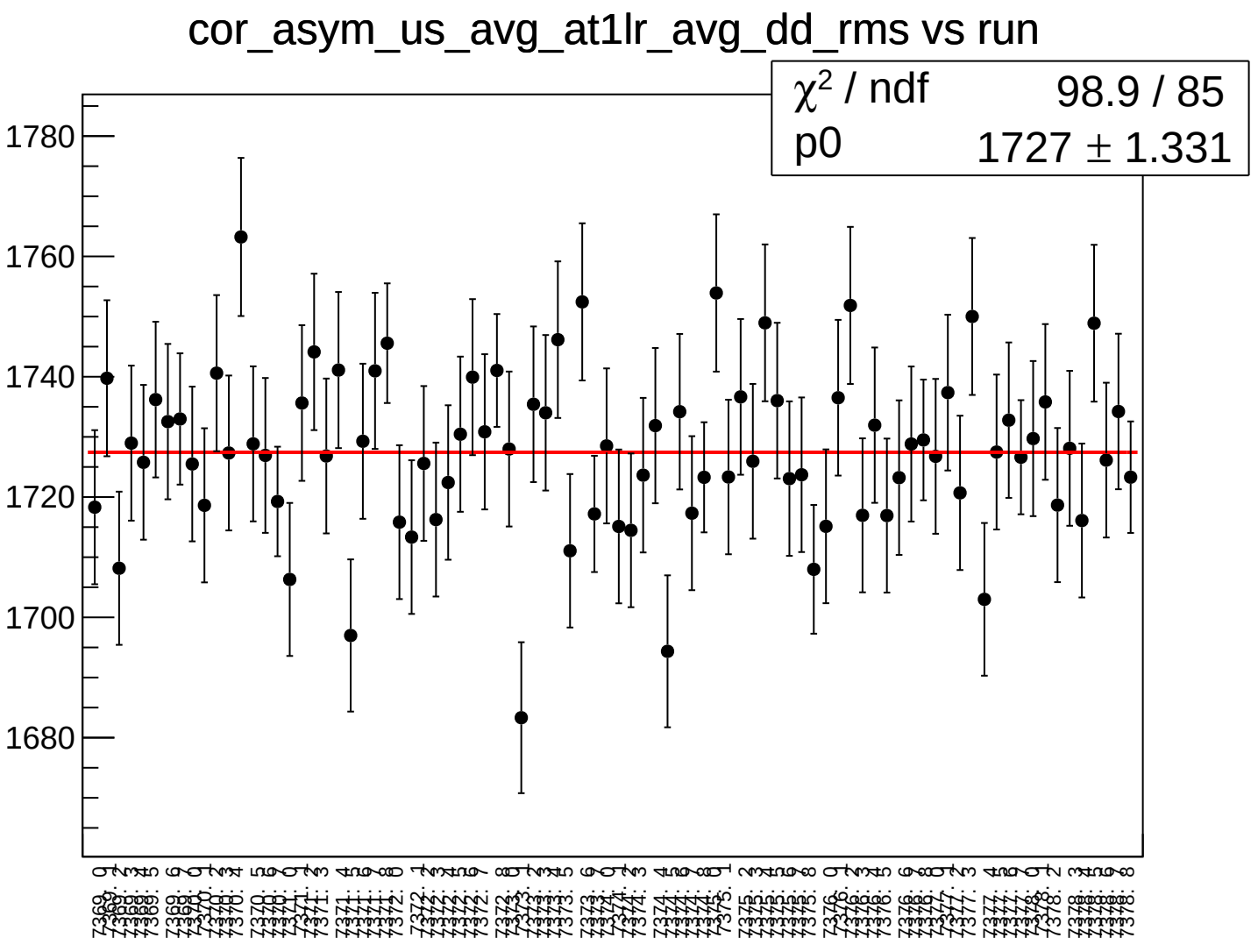

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 99.68 / 85
p0 −1048 ± 846
pull
Entries 86
Mean −76.6
Std Dev 0

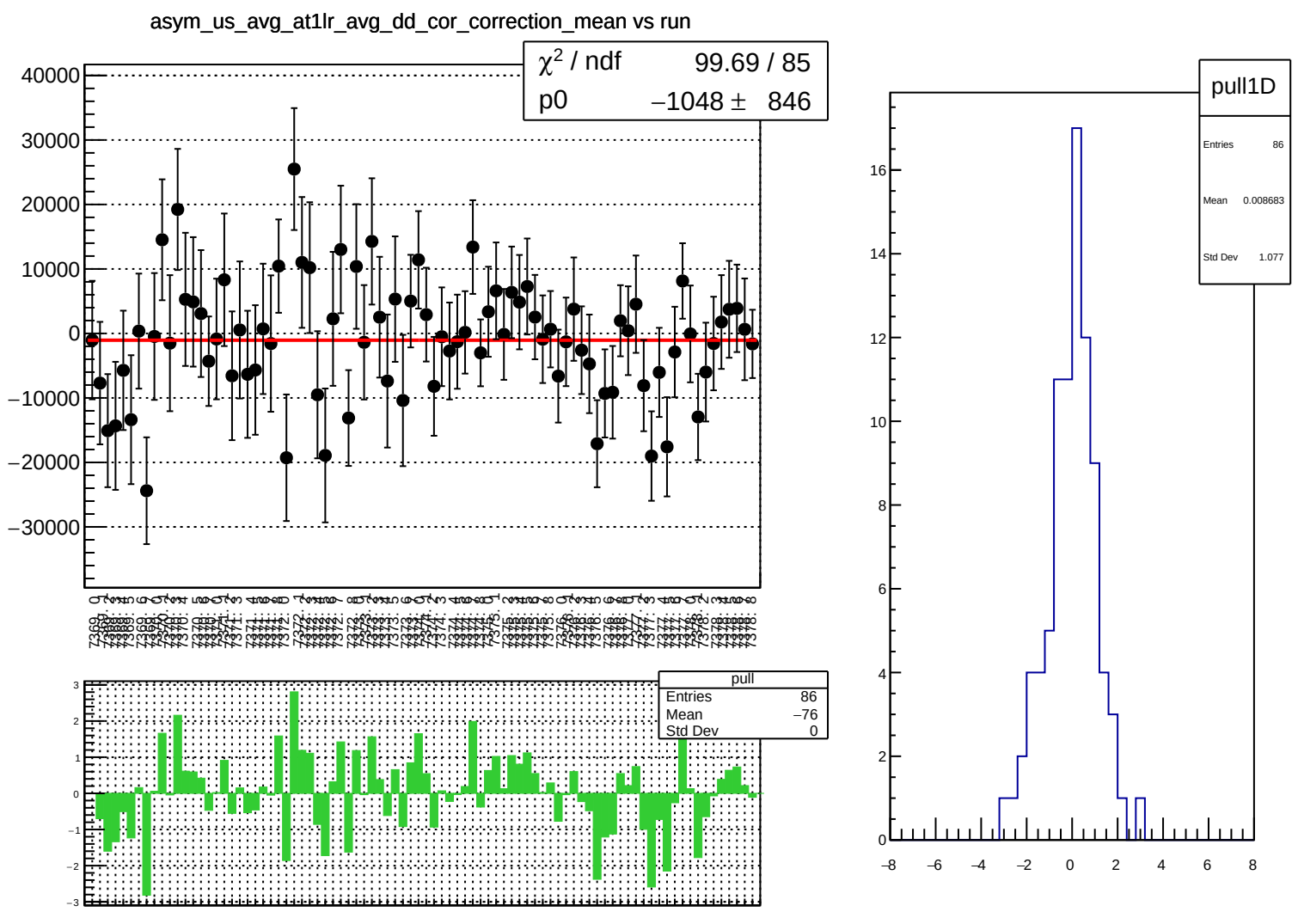

pull1D
Entries 86
Mean 0.008648
Std Dev 1.077

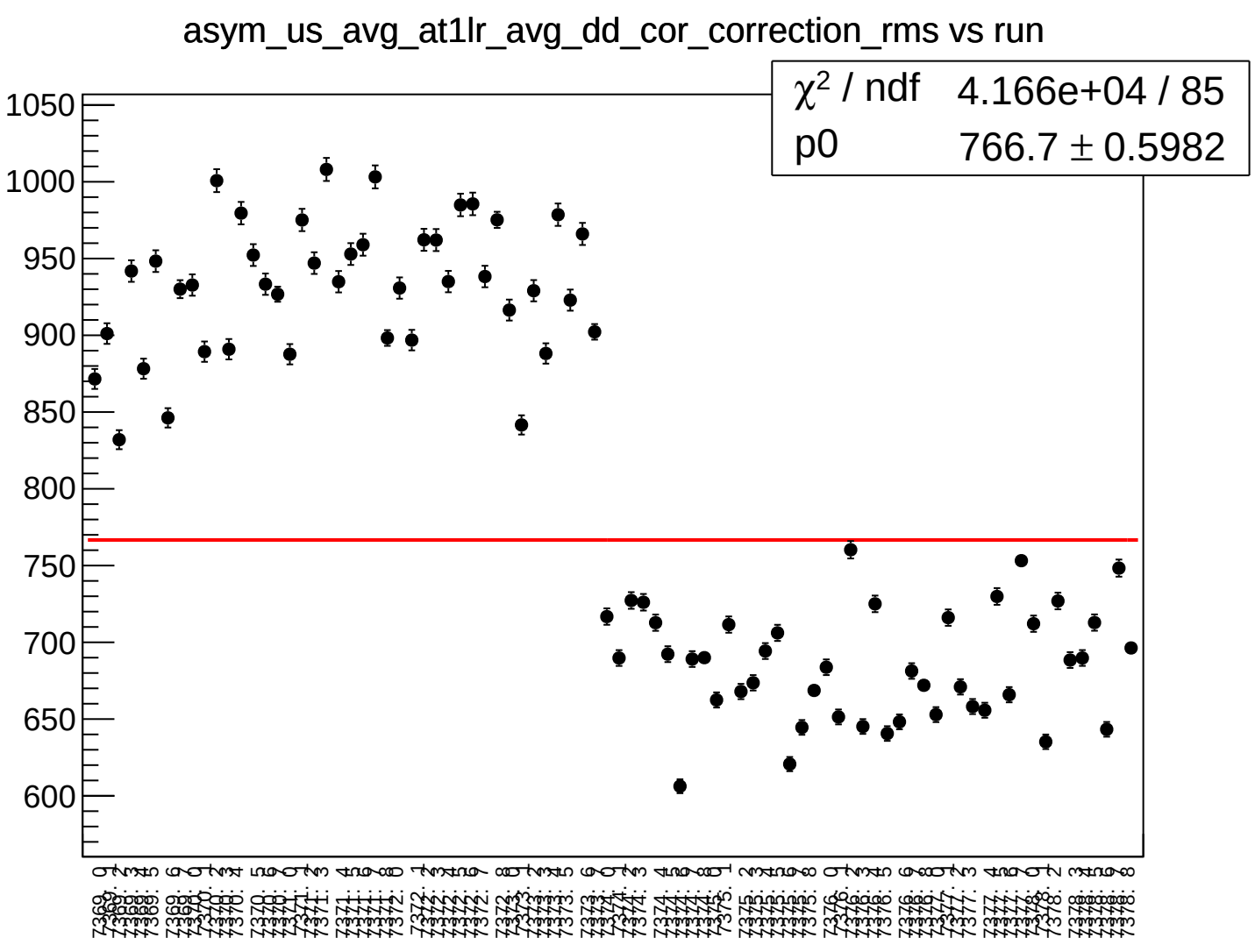

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 4.167e+04 / 85
p0 766.6 ± 0.5982
1050
1000
950
900
850
800
750
700
650
600

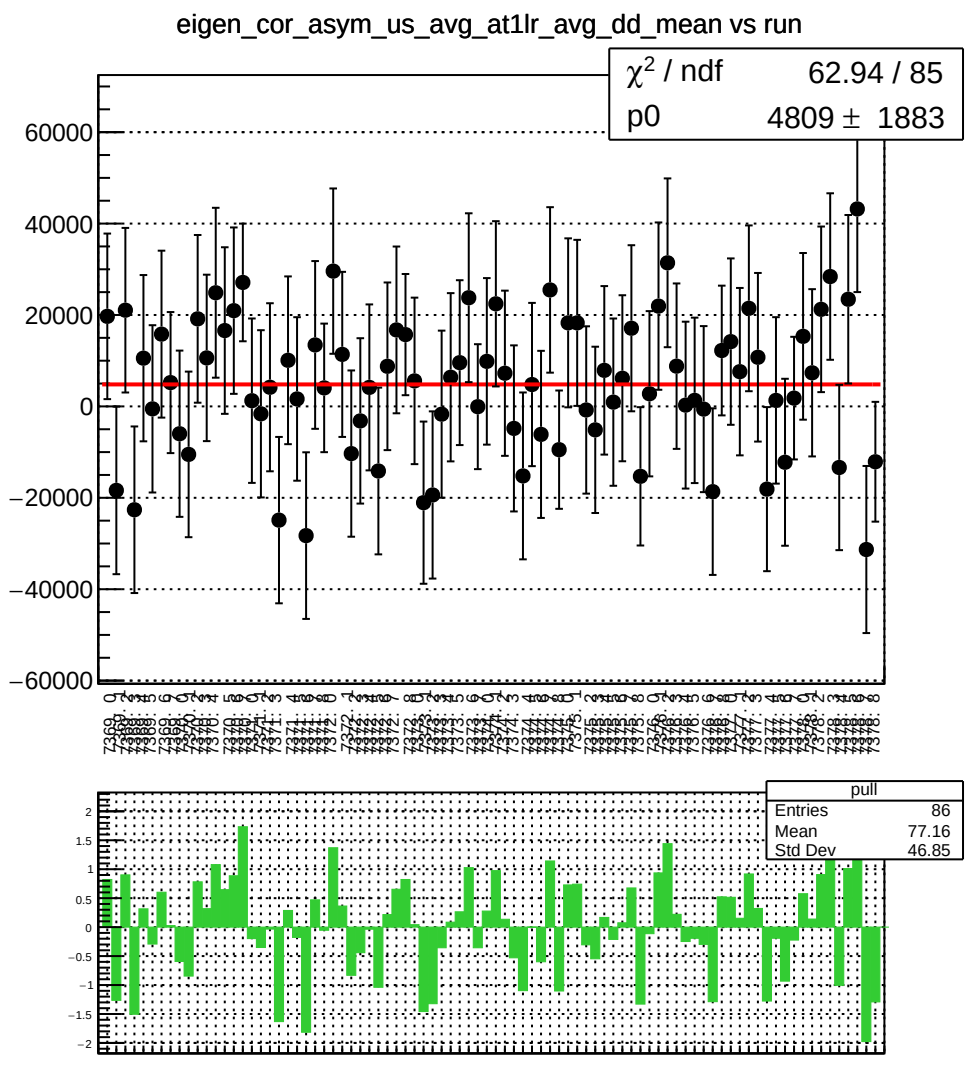

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 62.94 / 85
p0 4809 ± 1883
pull
Entries 86
Mean 77.16
Std Dev 46.85

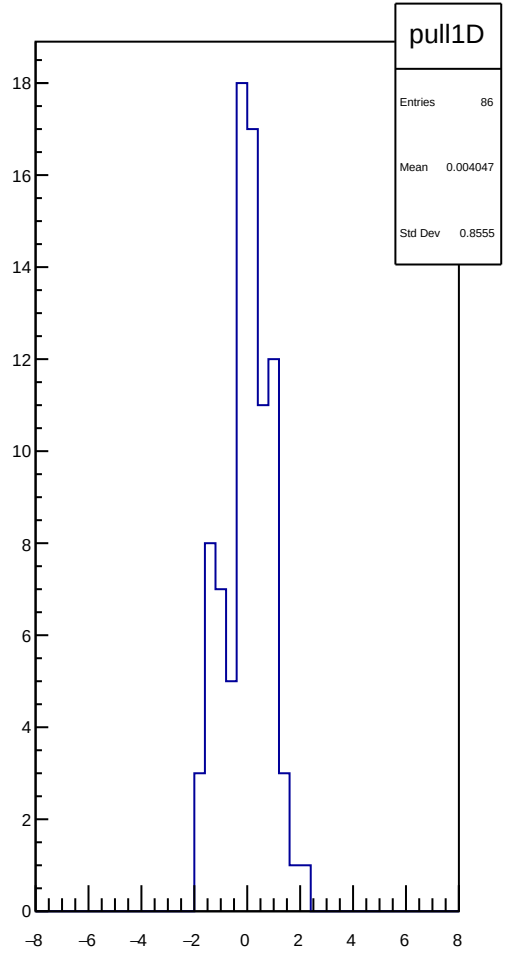

pull1D
Entries 86
Mean 0.004047
Std Dev 0.8555

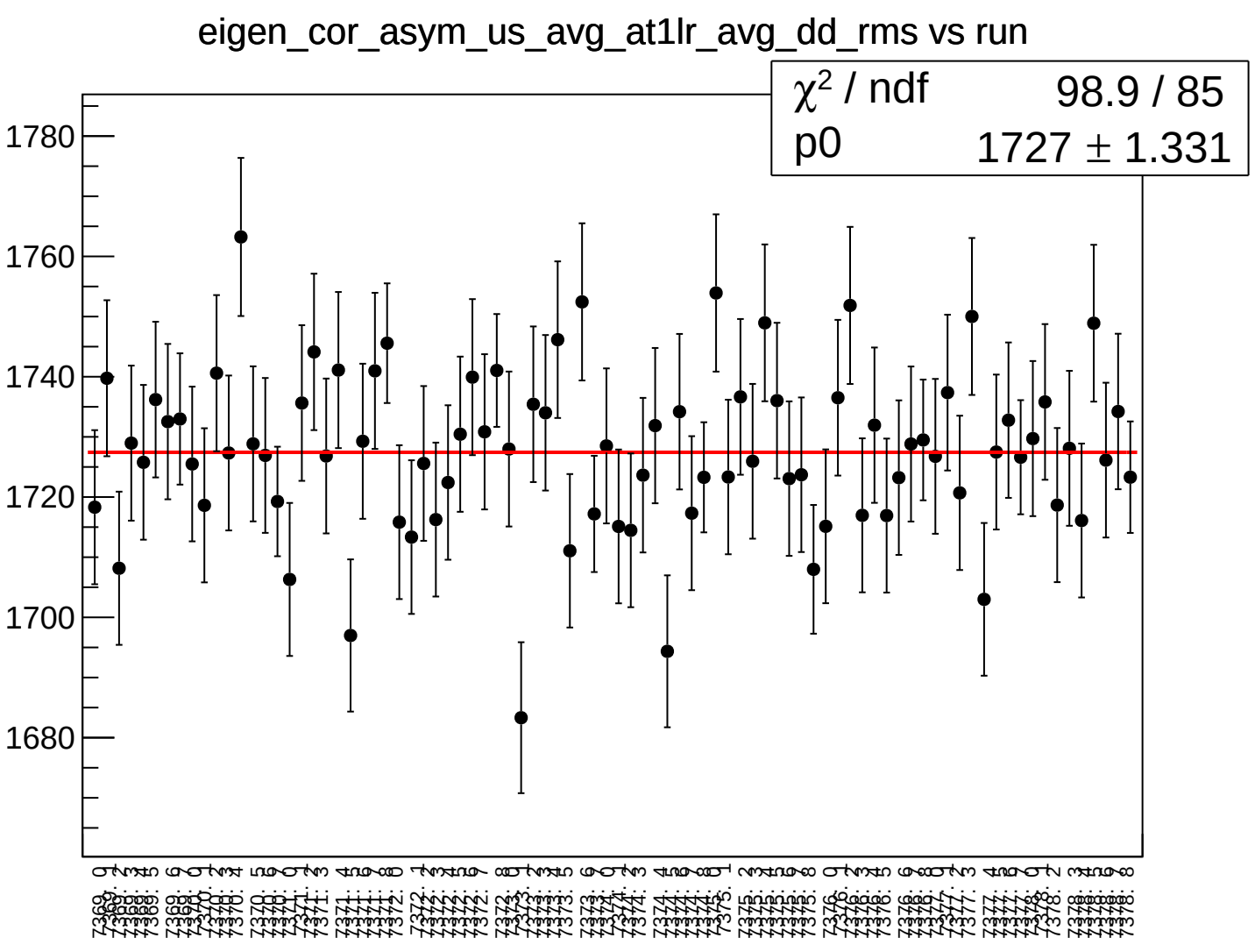

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 98.9 / 85
p0 1727 ± 1.331
1780
1760
1740
1720
1700
1680

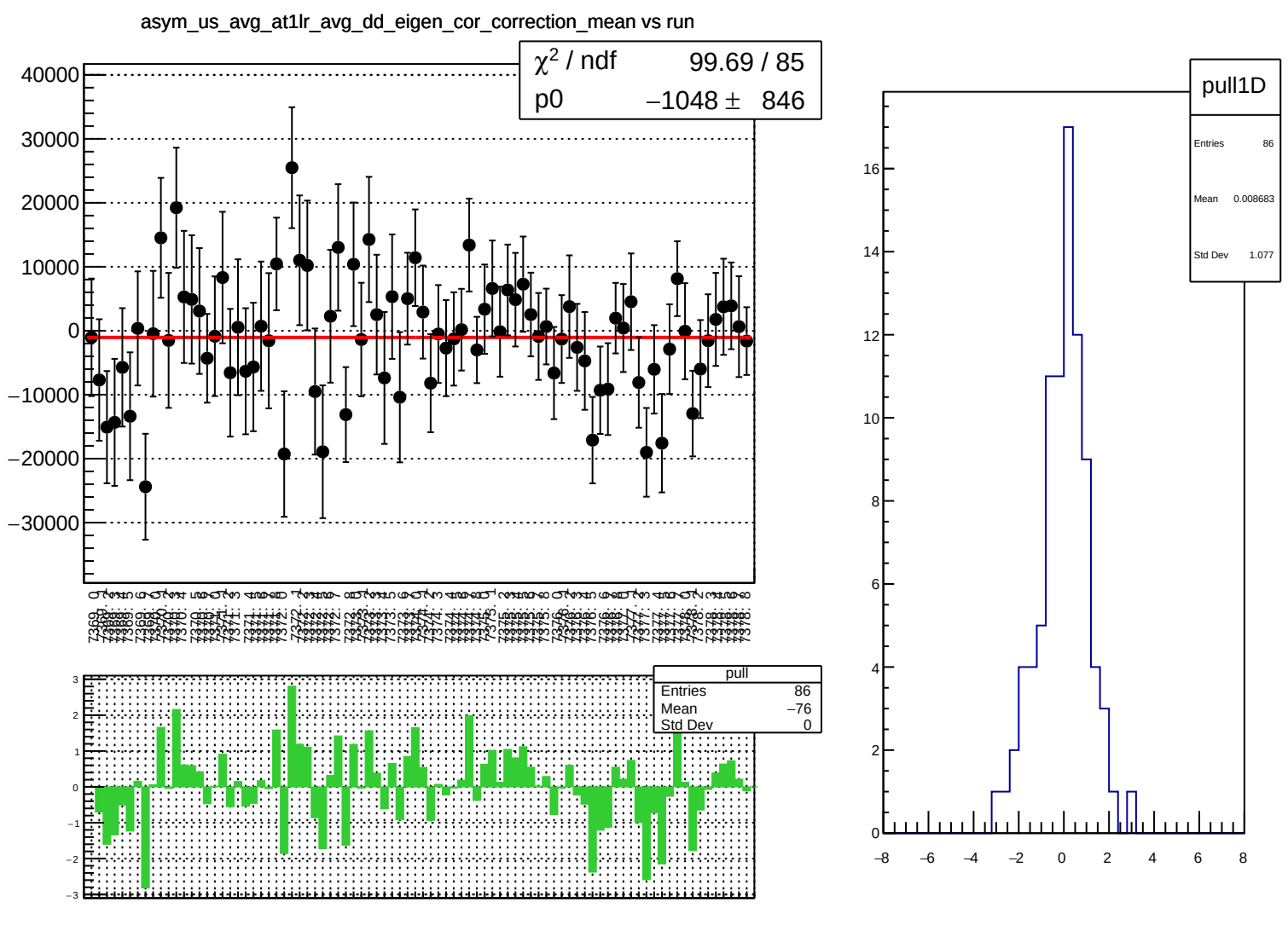

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 99.69 / 85
p0 −1048 ± 846
pull
Entries 86
Mean −76
Std Dev 0
pull1D
Entries 86
Mean 0.008683
Std Dev 1.077

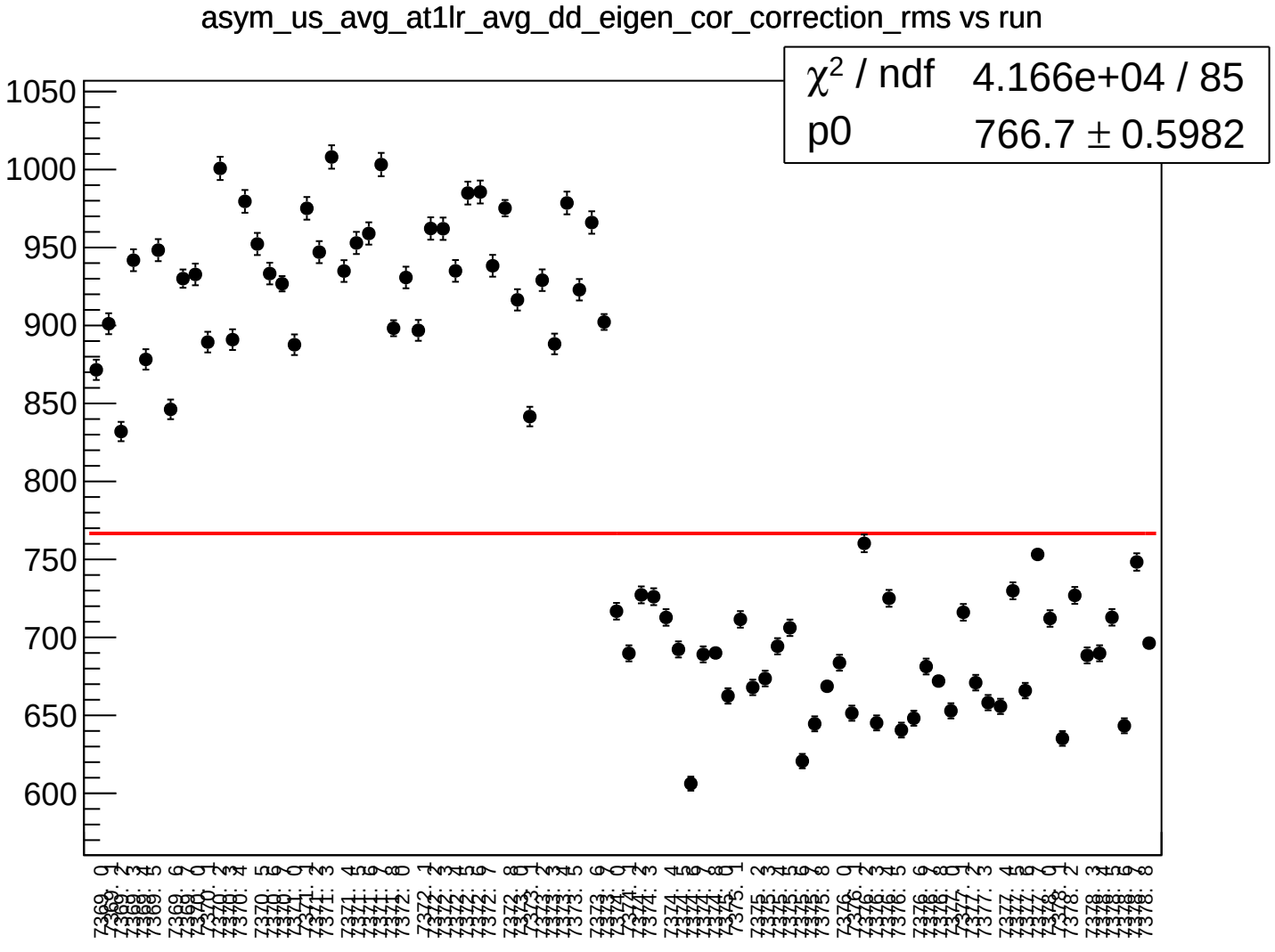

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 4.166e+04 / 85
p0 766.7 ± 0.5982
1050
1000
950
900
850
800
750
700
650
600

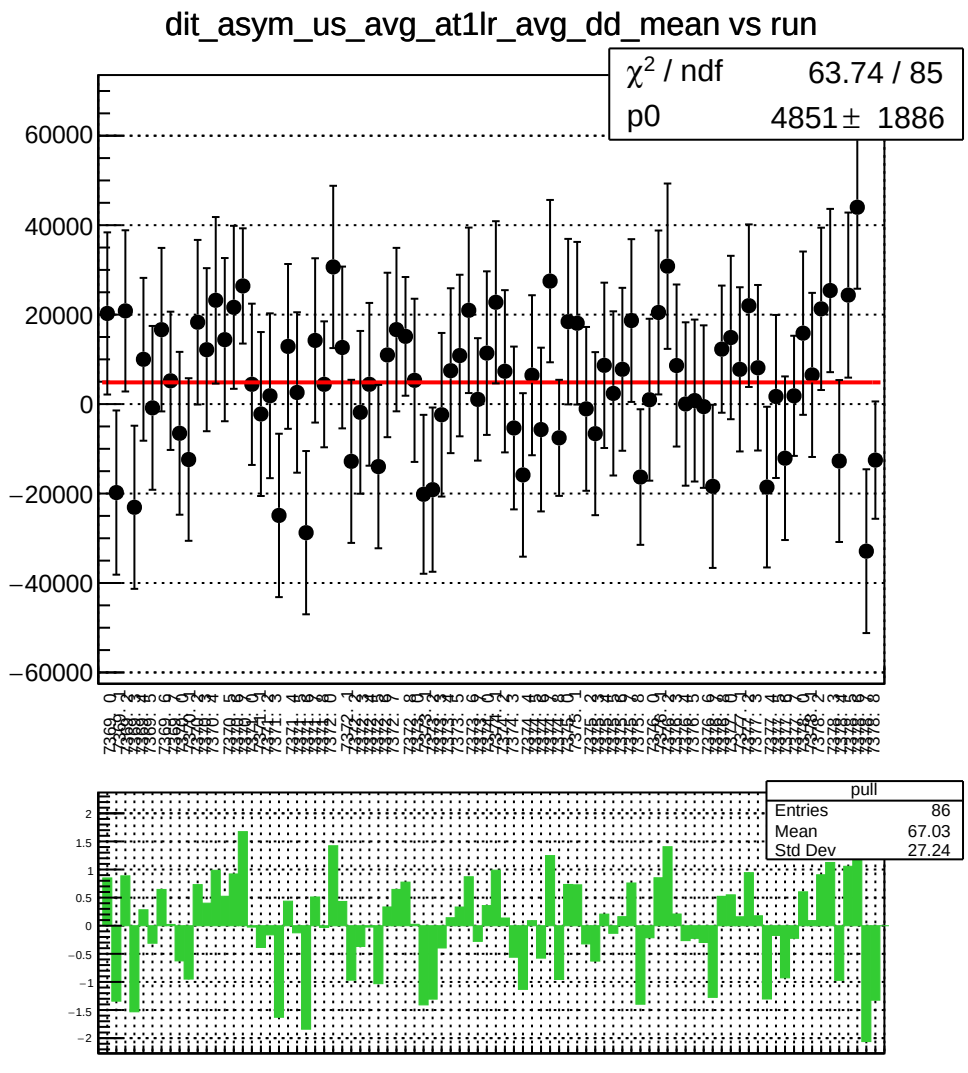

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 62.94 / 85
p0 4809 ± 1883
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 77.16
Std Dev 46.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

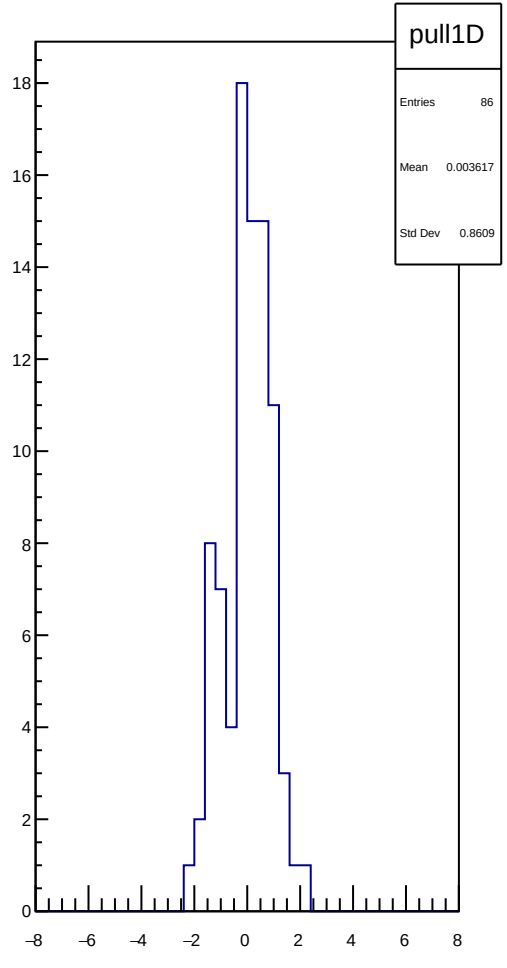

pull1D
Entries 86
Mean 0.004047
Std Dev 0.8555
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

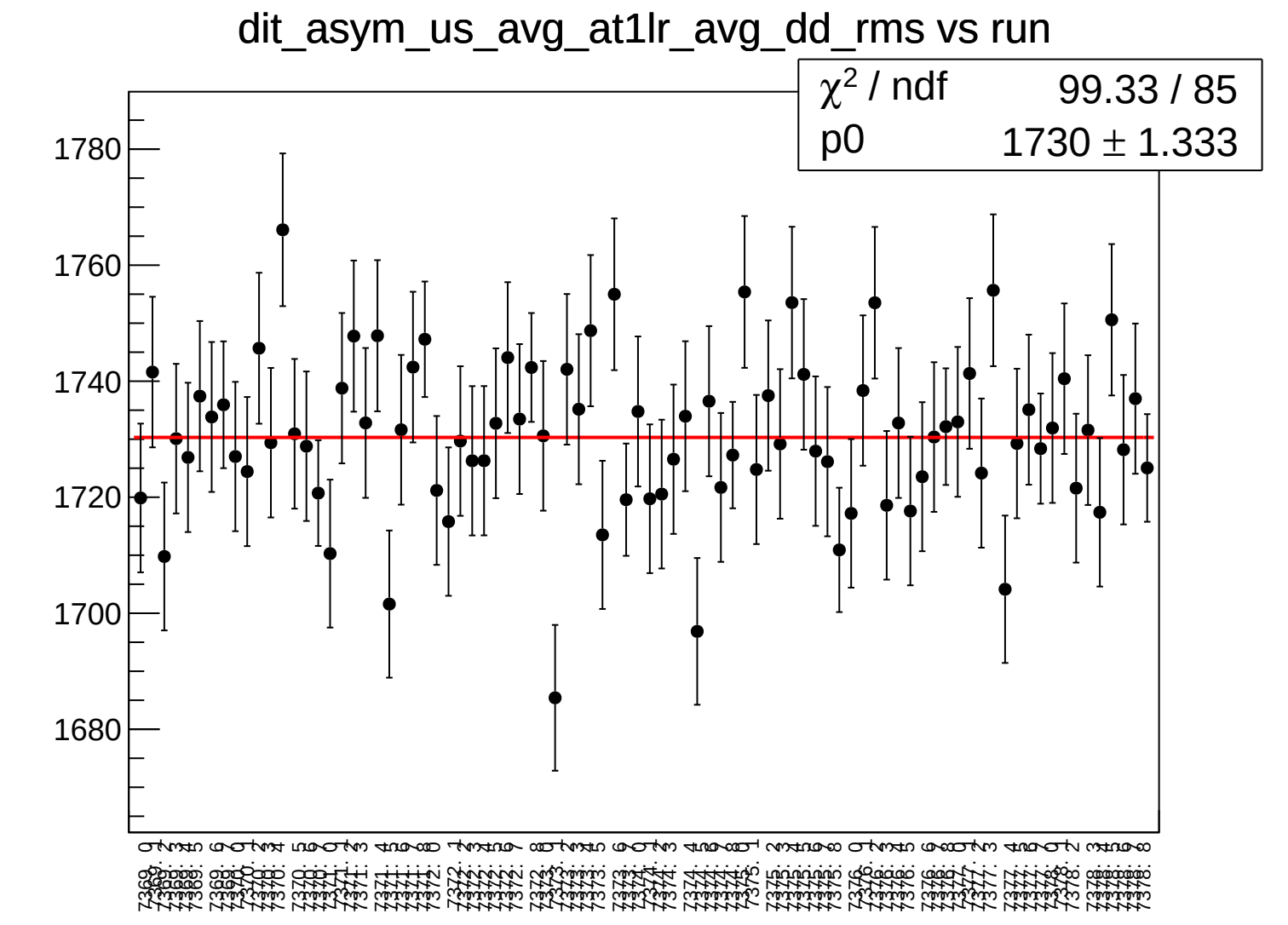

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 98.9 / 85
p0 1727 ± 1.331
1780
1760
1740
1720
1700
1680

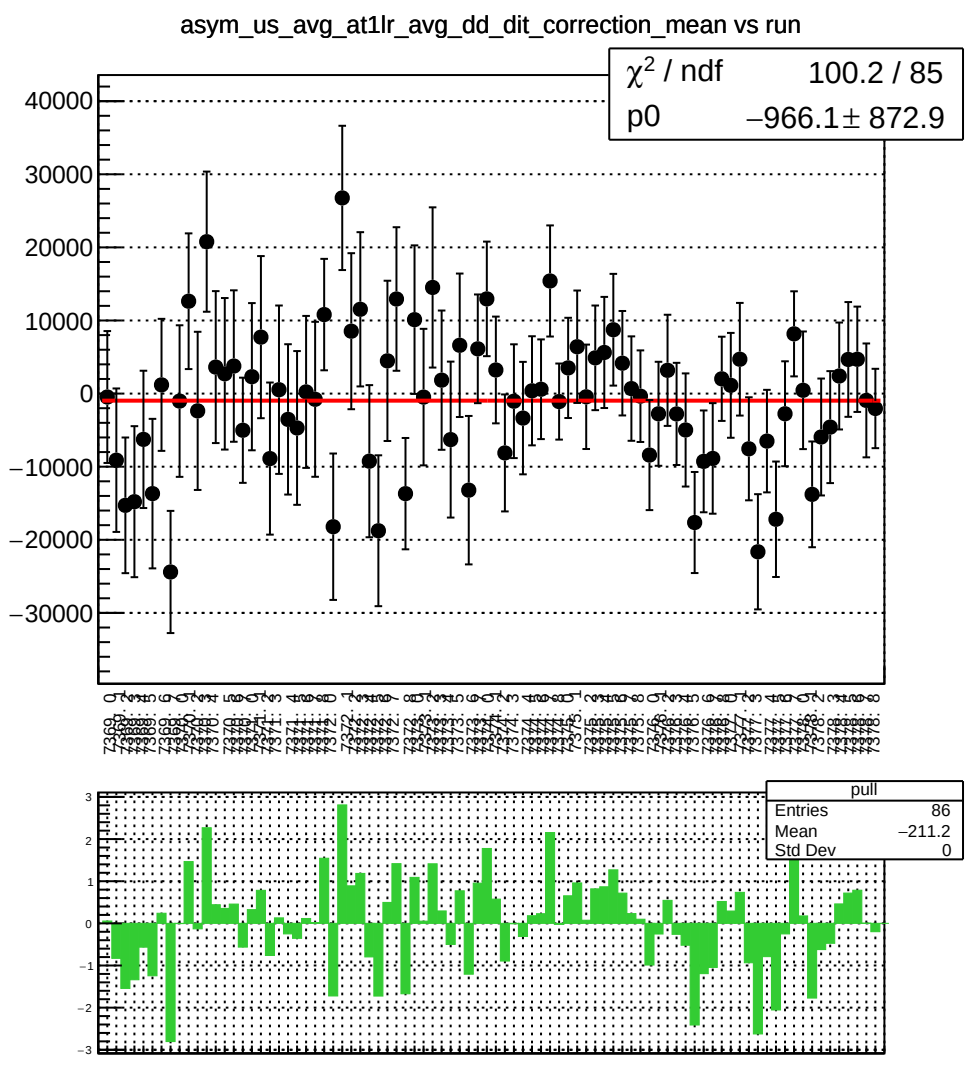

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.69 / 85
p0 −1048 ± 846
pull
Entries 86
Mean −76
Std Dev 0
pull1D
Entries 86
Mean 0.008683
Std Dev 1.077

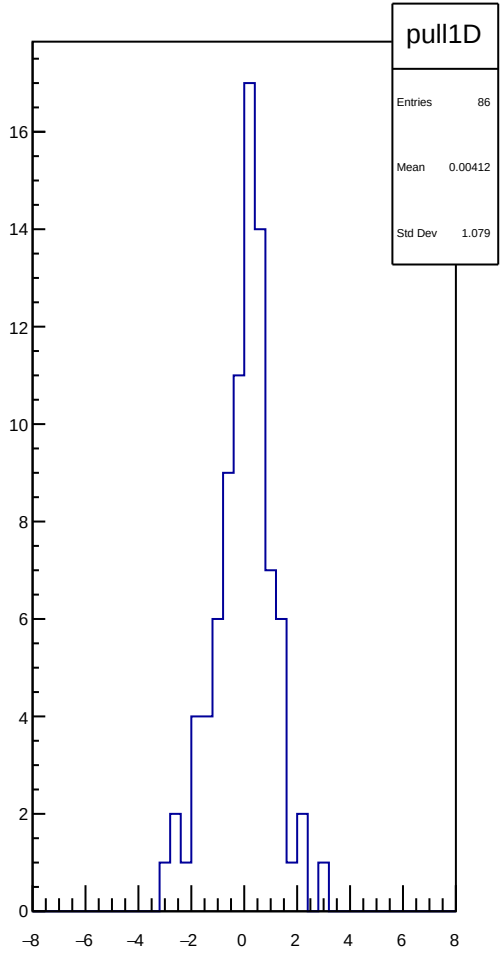

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.166e+04 / 85
p0 766.7 ± 0.5982
1050
1000
950
900
850
800
750
700
650
600

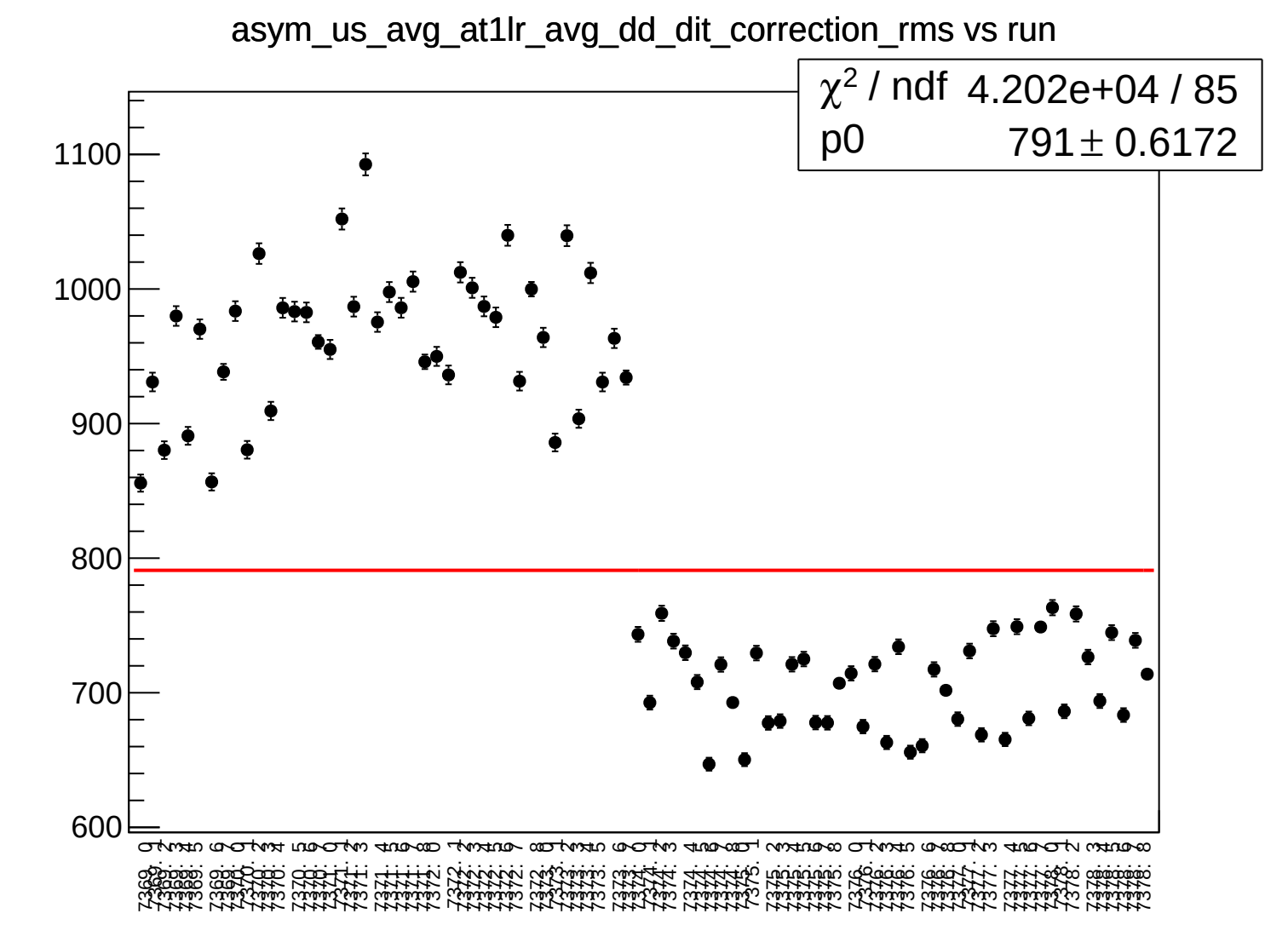

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 63.74 / 85
p0 4851 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 67.03
Std Dev 27.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

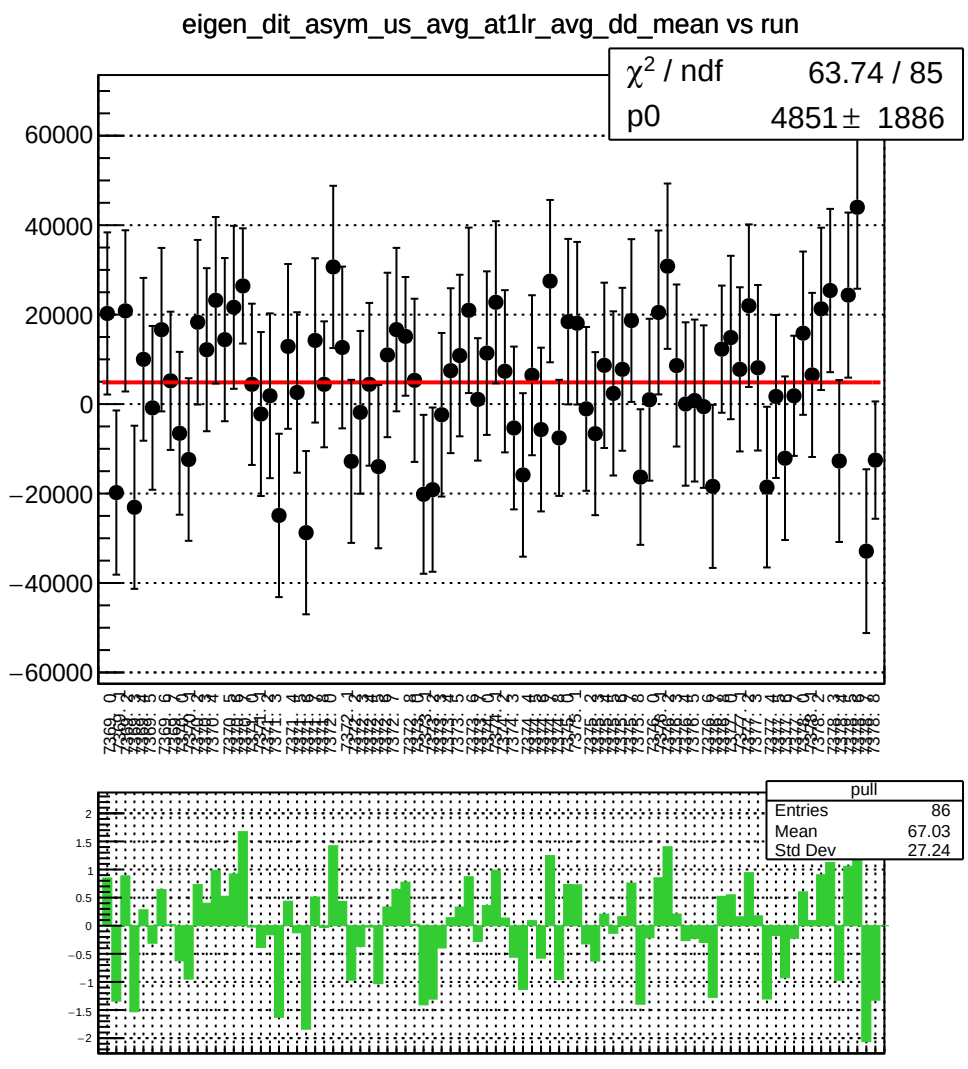

pull1D
Entries 86
Mean 0.003617
Std Dev 0.8609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

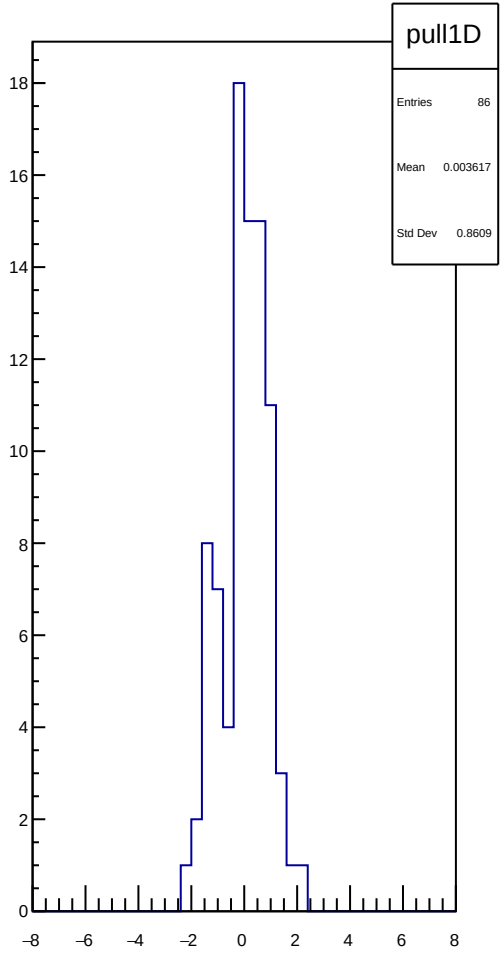

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 99.33 / 85
p0 1730 ± 1.333
1780
1760
1740
1720
1700
1680

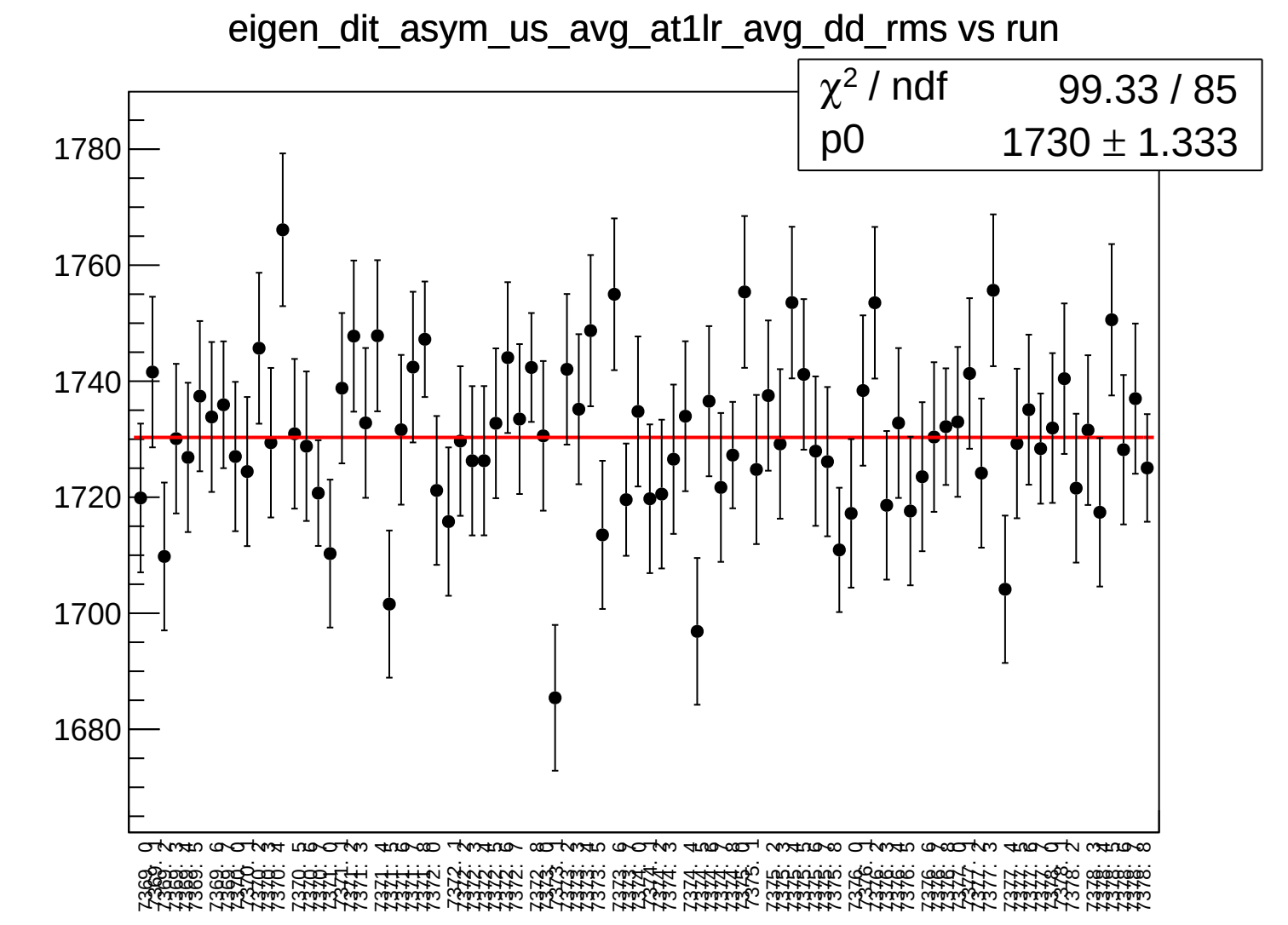

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 100.2 / 85
p0 −966.1 ± 872.9
pull
Entries 86
Mean −211.2
Std Dev 0

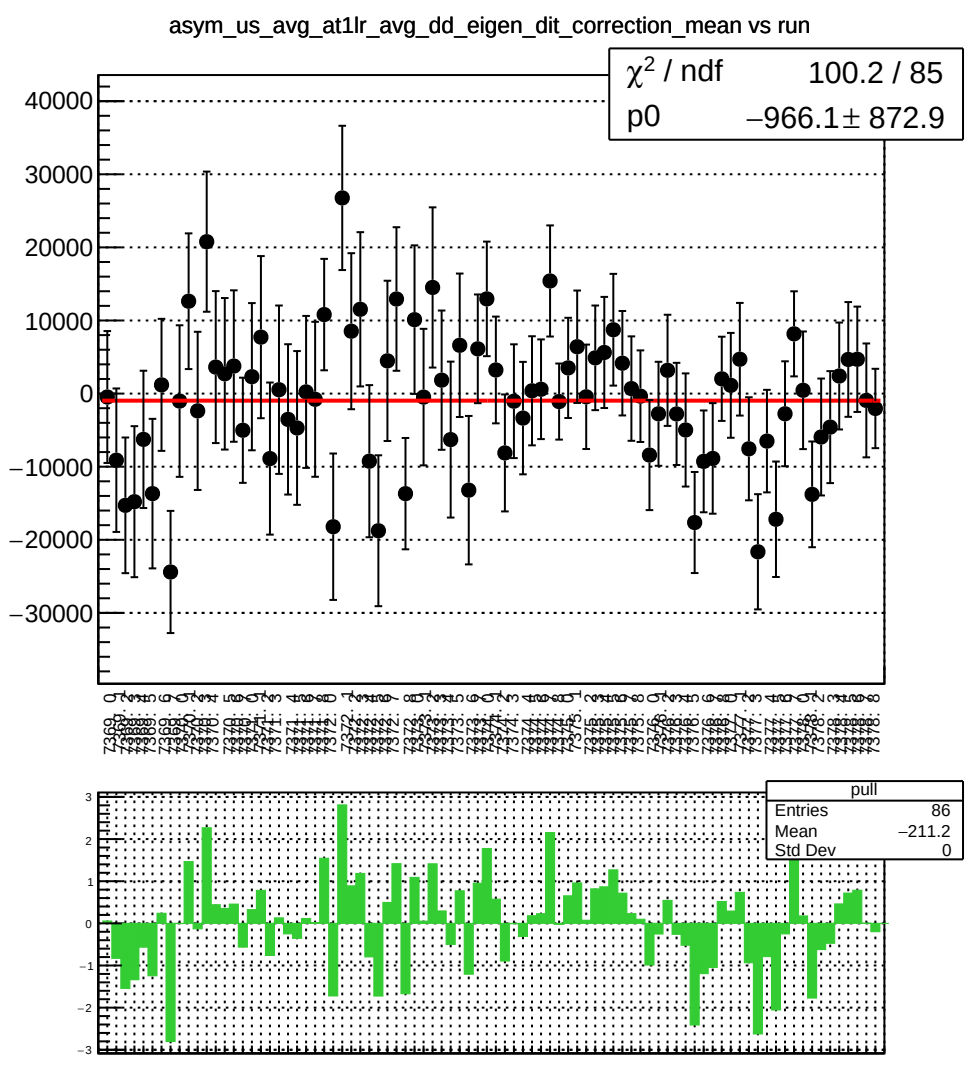

pull1D
Entries 86
Mean 0.00412
Std Dev 1.079

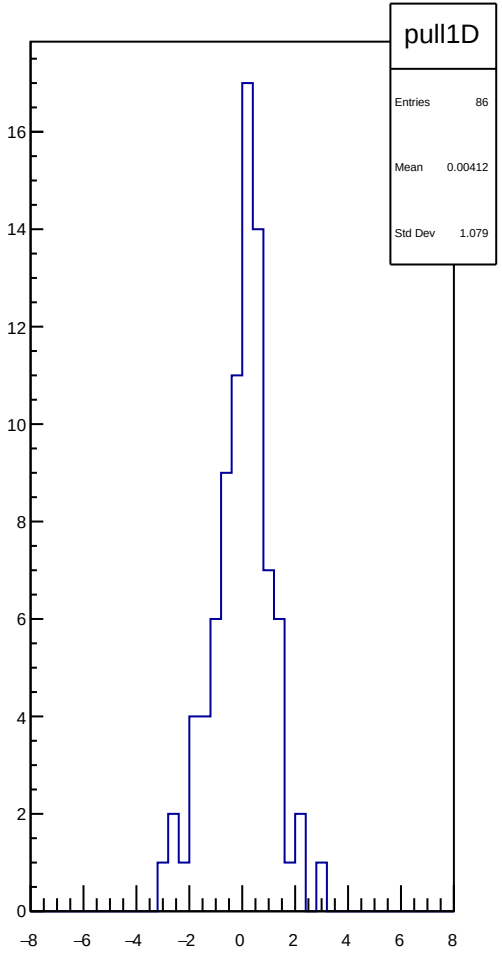

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 4.202e+04 / 85
p0 791 ± 0.6172
1100
1000
900
800
700
600

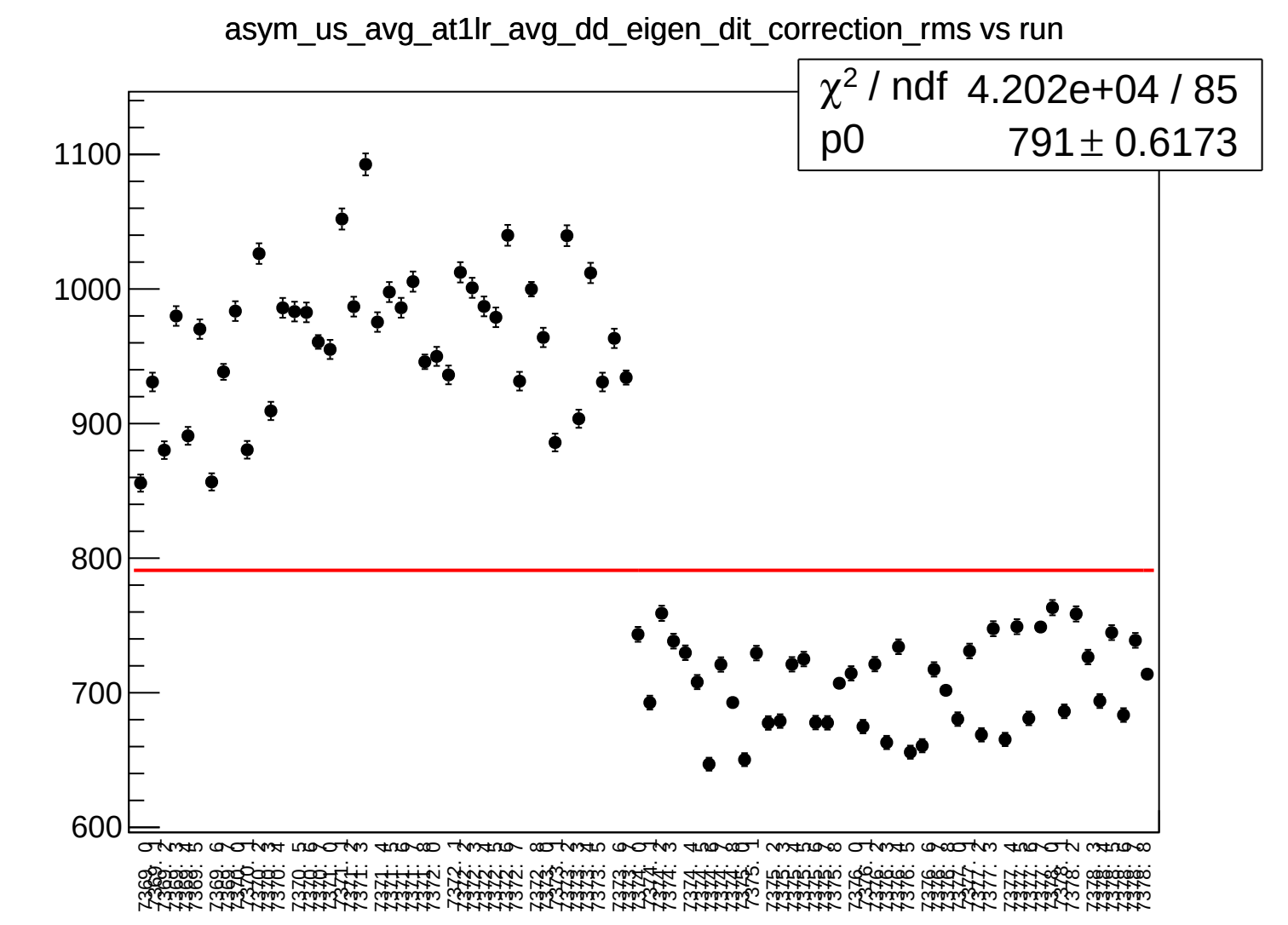

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 63.74 / 85
p0 4851 ± 1886
pull
Entries 86
Mean 67.03
Std Dev 27.24

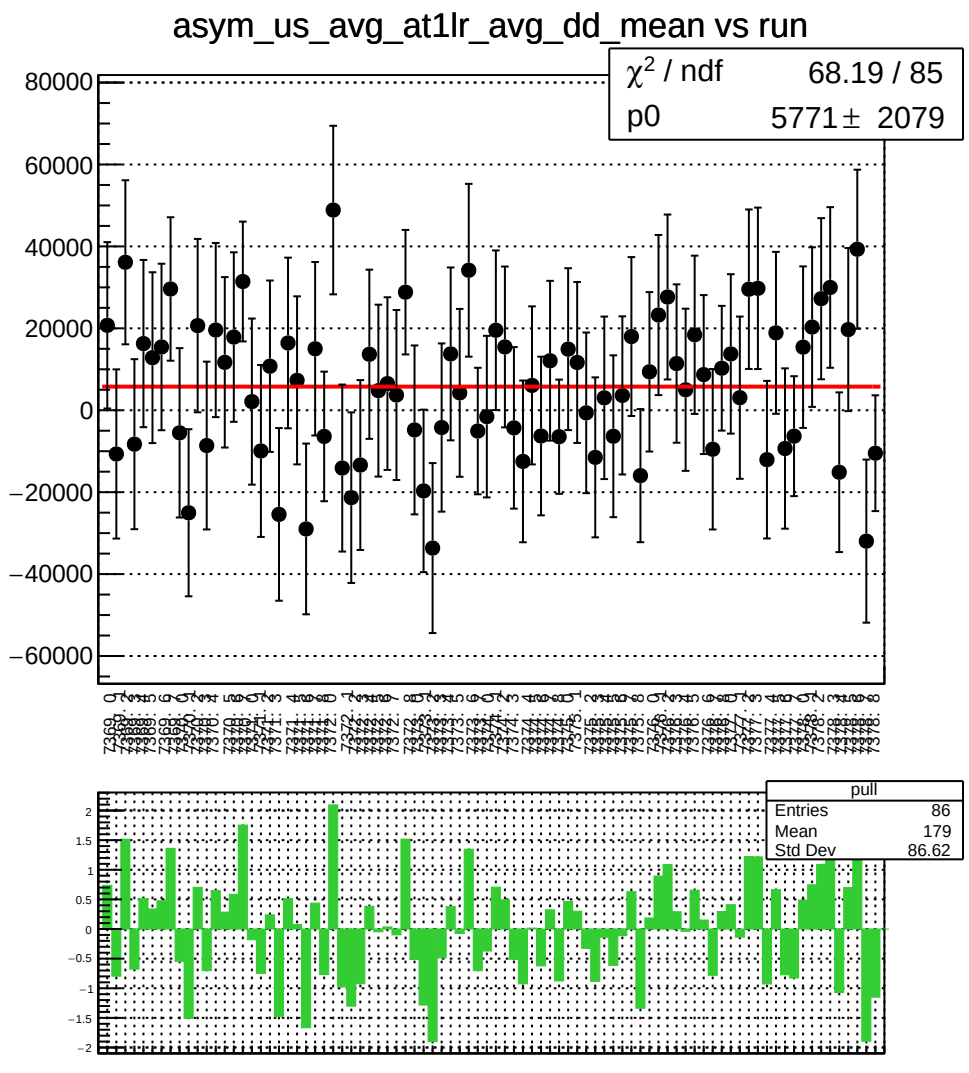

pull1D
Entries 86
Mean 0.003617
Std Dev 0.8609

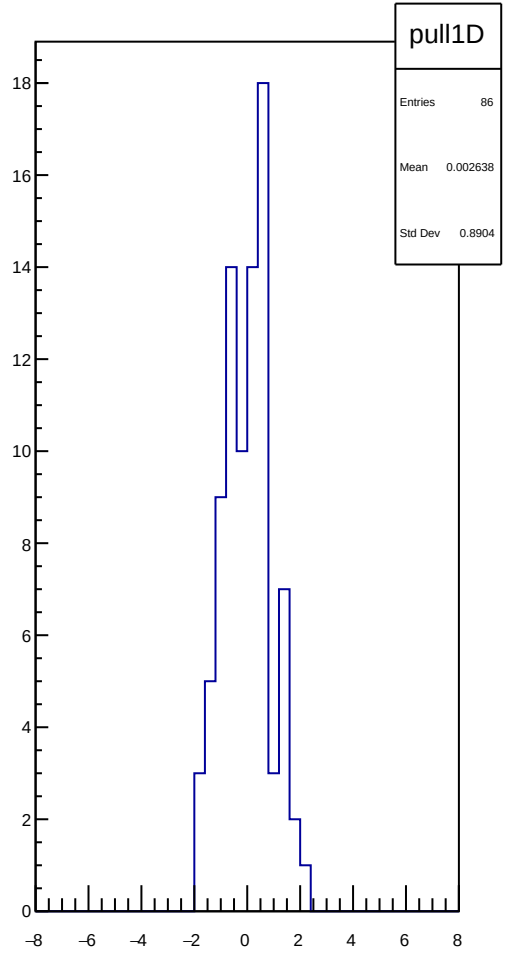

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 99.33 / 85
p0 1730 ± 1.333
1780
1760
1740
1720
1700
1680

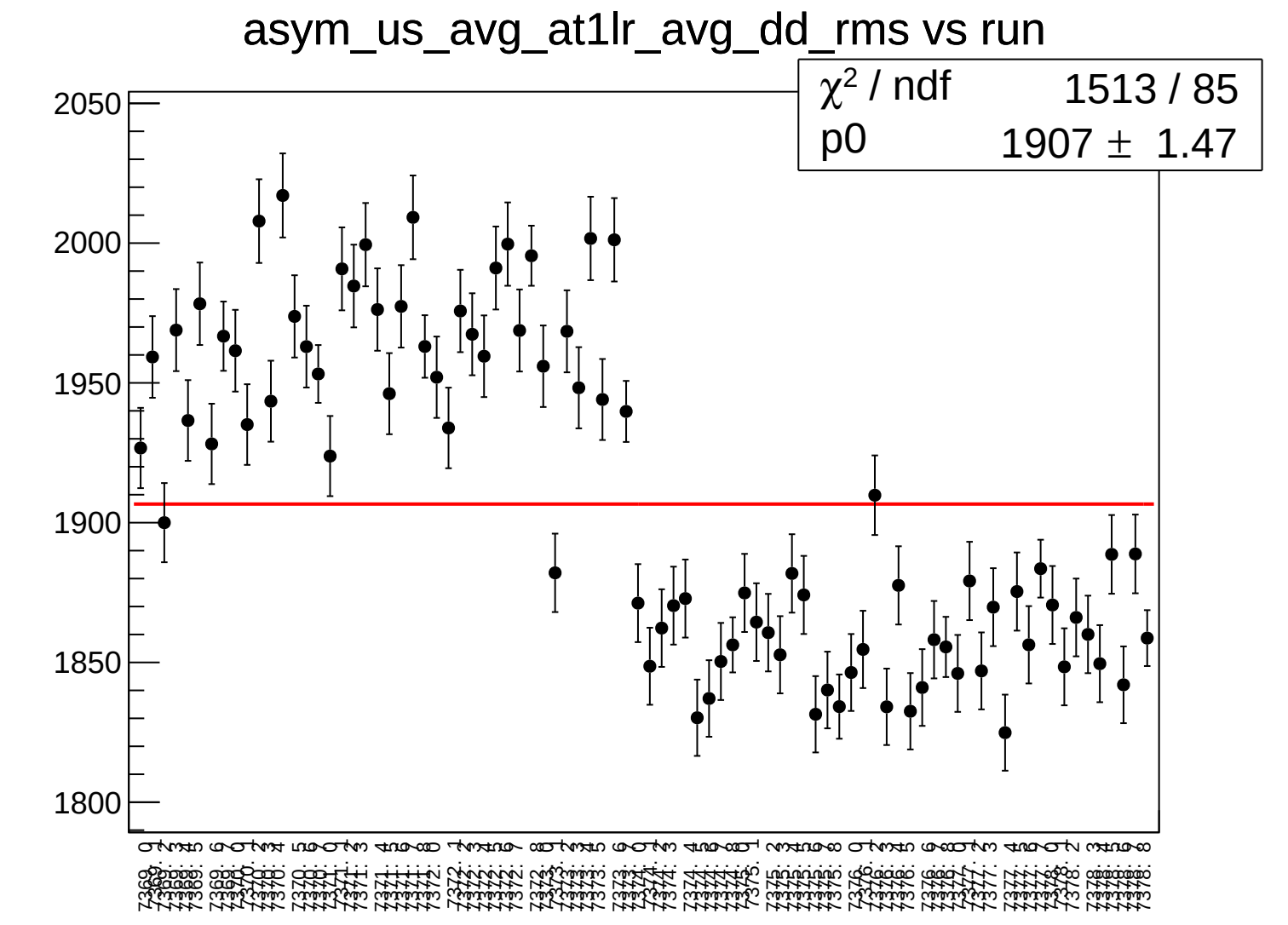

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.2 / 85
p0 −966.1 ± 872.9
pull
Entries 86
Mean −211.2
Std Dev 0

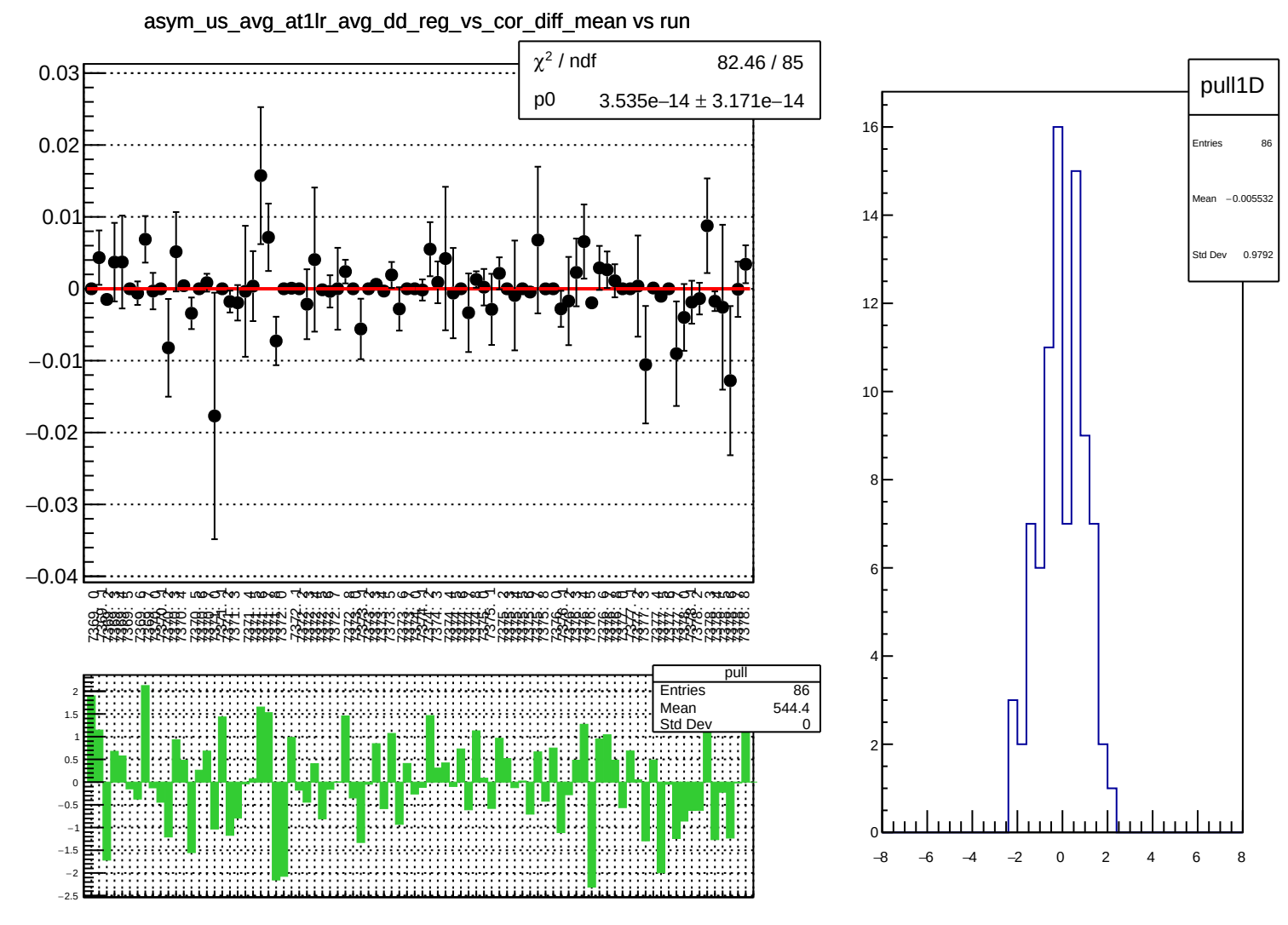

pull1D
Entries 86
Mean 0.00412
Std Dev 1.079

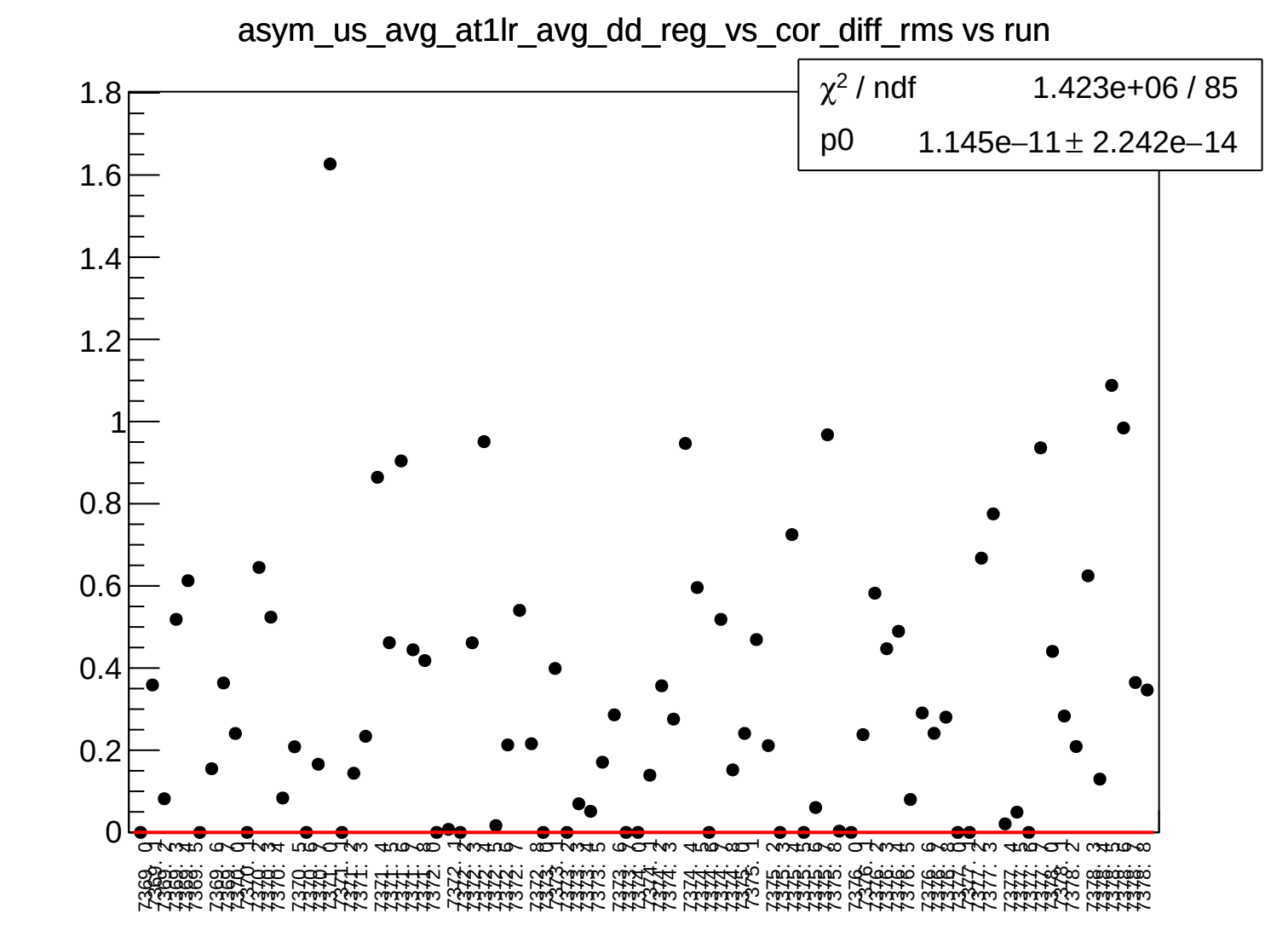

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.202e+04 / 85
p0 791 ± 0.6173
1100
1000
900
800
700
600

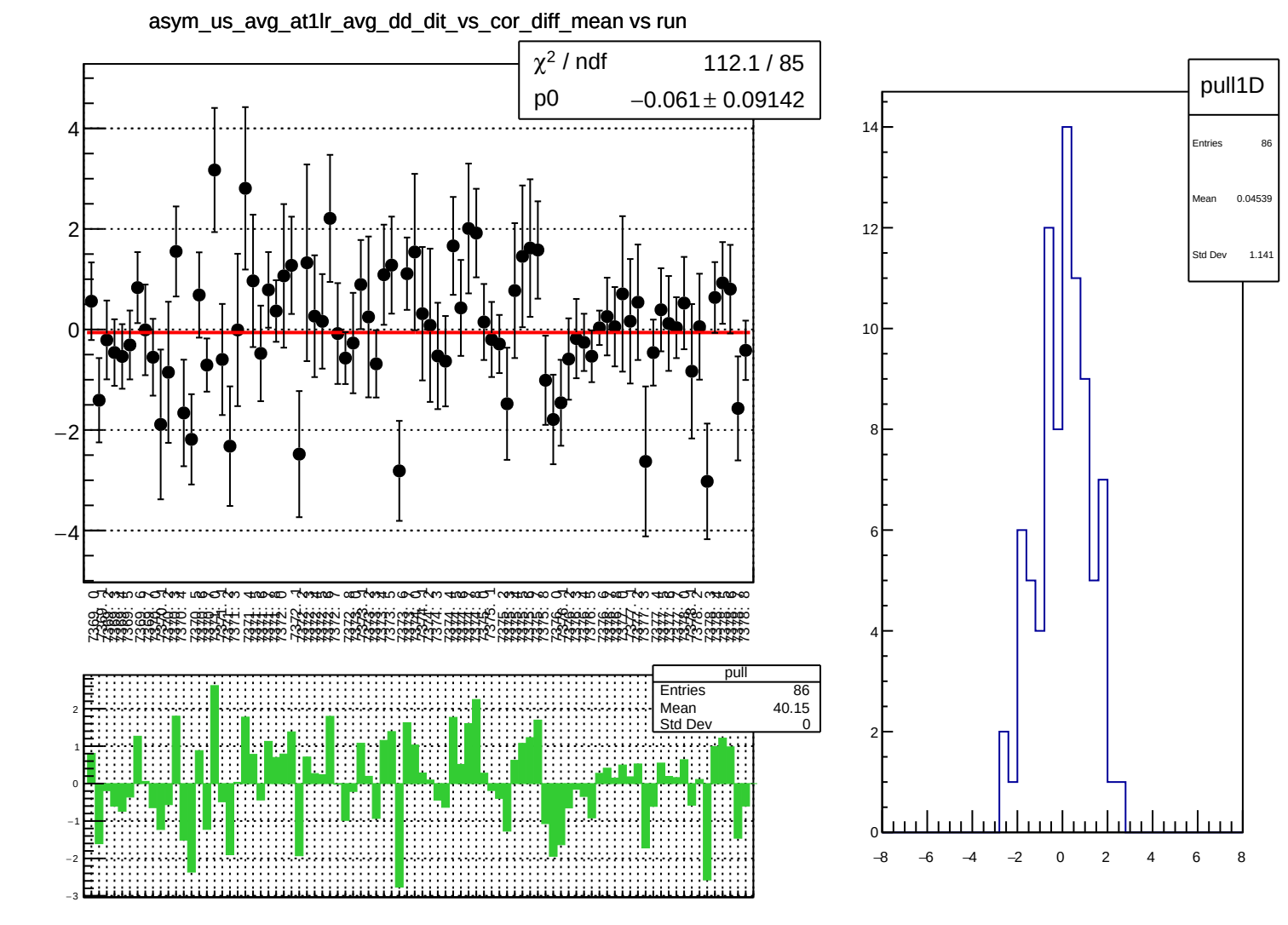

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.19 / 85
p0 5771 ± 2079
pull
Entries 86
Mean 179
Std Dev 86.62

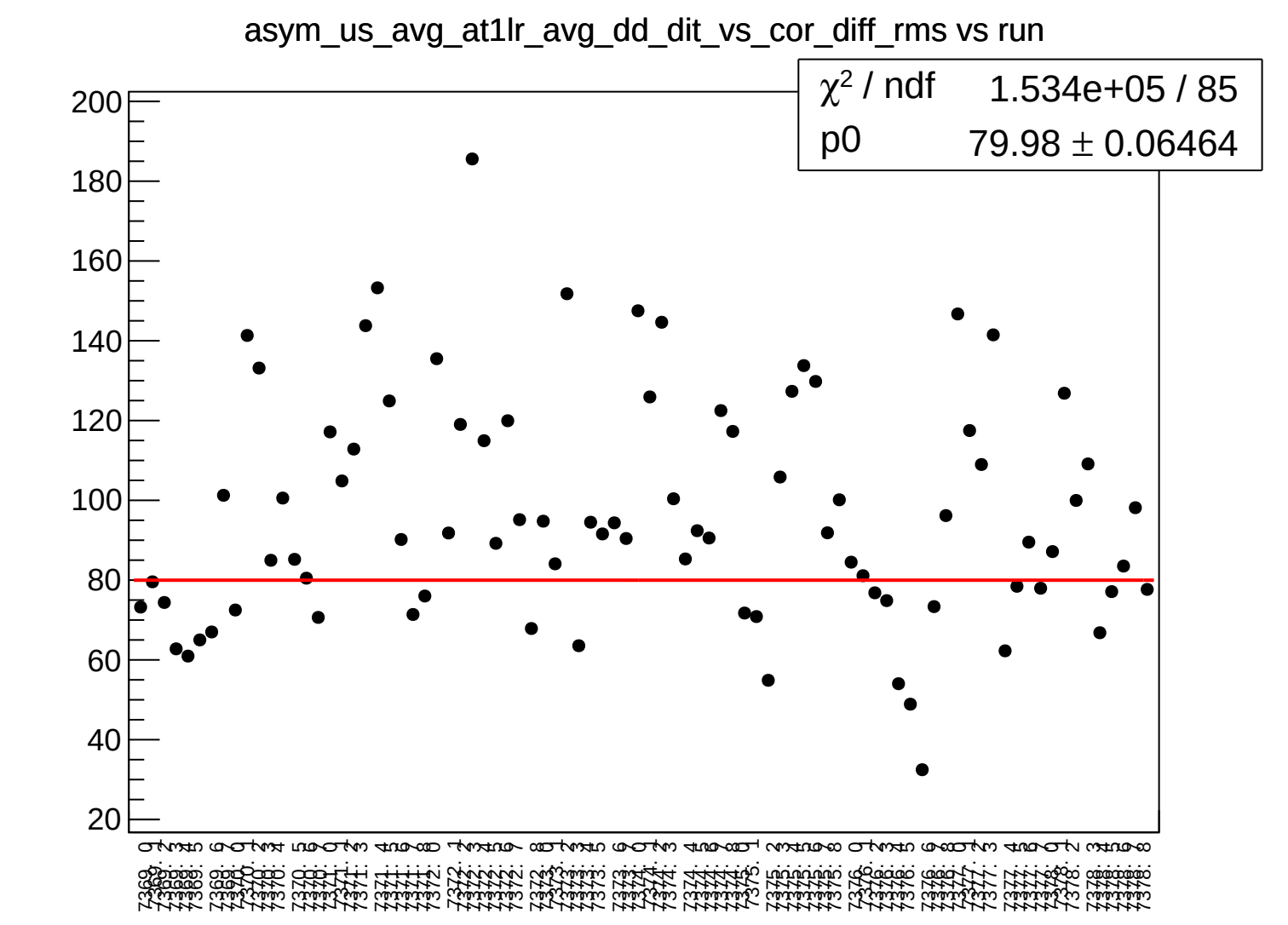

pull1D
Entries 86
Mean 0.002638
Std Dev 0.8904


asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1513 / 85
p0 1907 ± 1.47
2050
2000
1950
1900
1850
1800

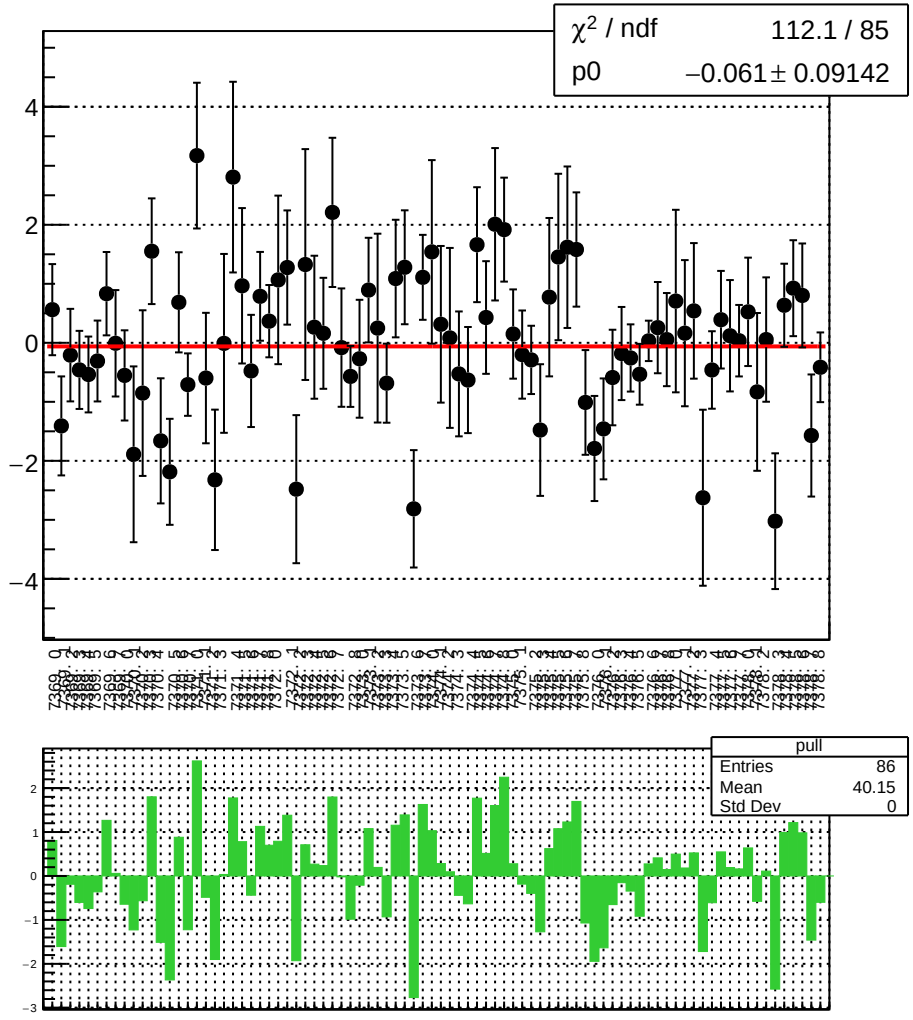

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.46 / 85
p0 3.535e−14 ± 3.171e−14
pull
Entries 86
Mean 544.4
Std Dev 0
pull1D
Entries 86
Mean −0.005532
Std Dev 0.9792

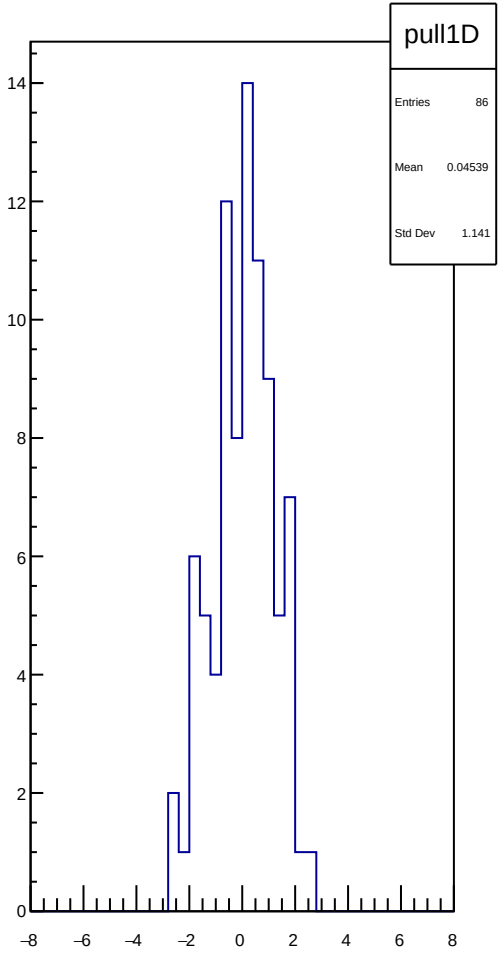

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.423e+06 / 85
p0 1.145e−11 ± 2.242e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

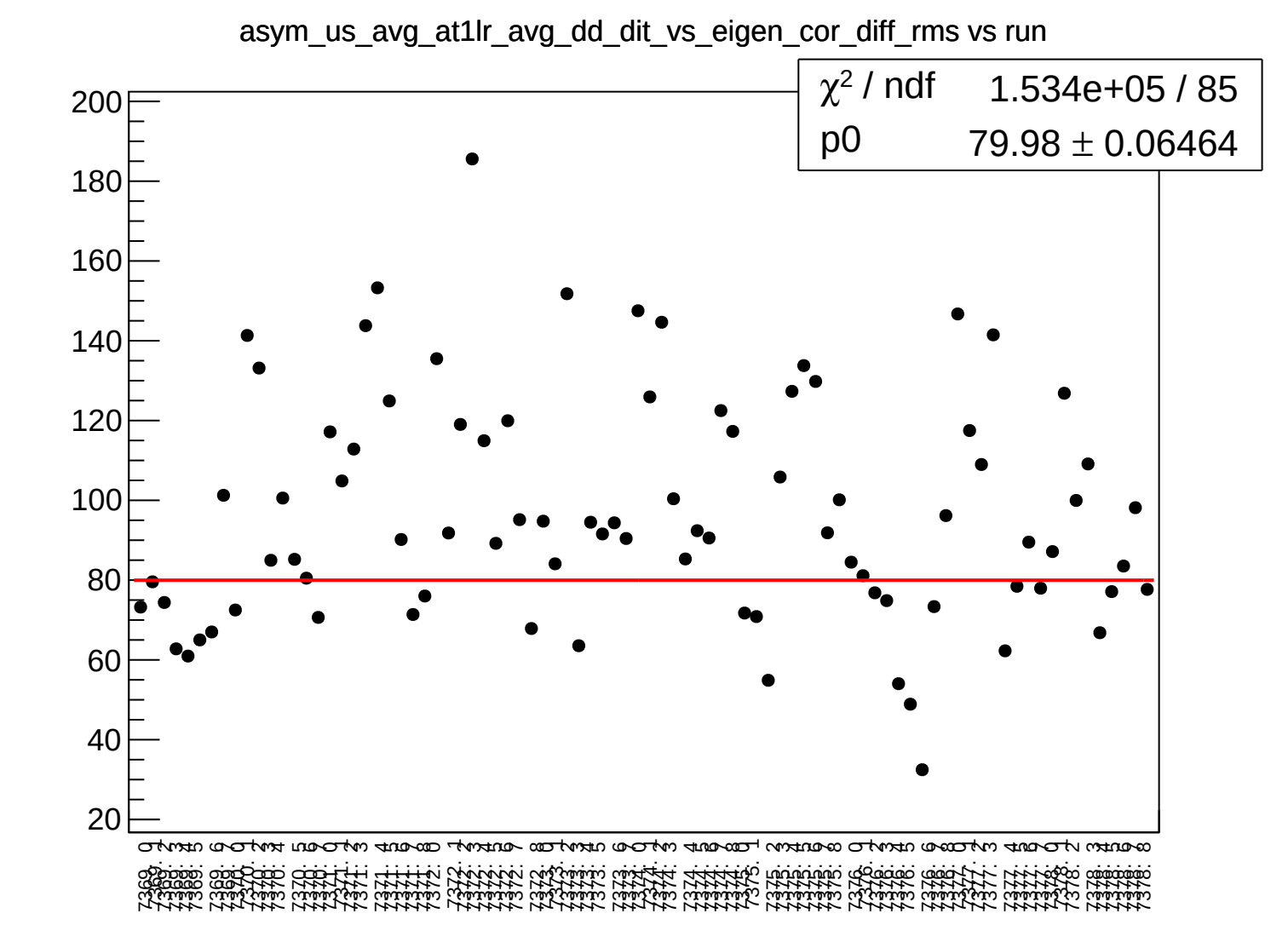

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 85
p0 −0.061 ± 0.09142
pull
Entries 86
Mean 40.15
Std Dev 0
pull1D
Entries 86
Mean 0.04539
Std Dev 1.141

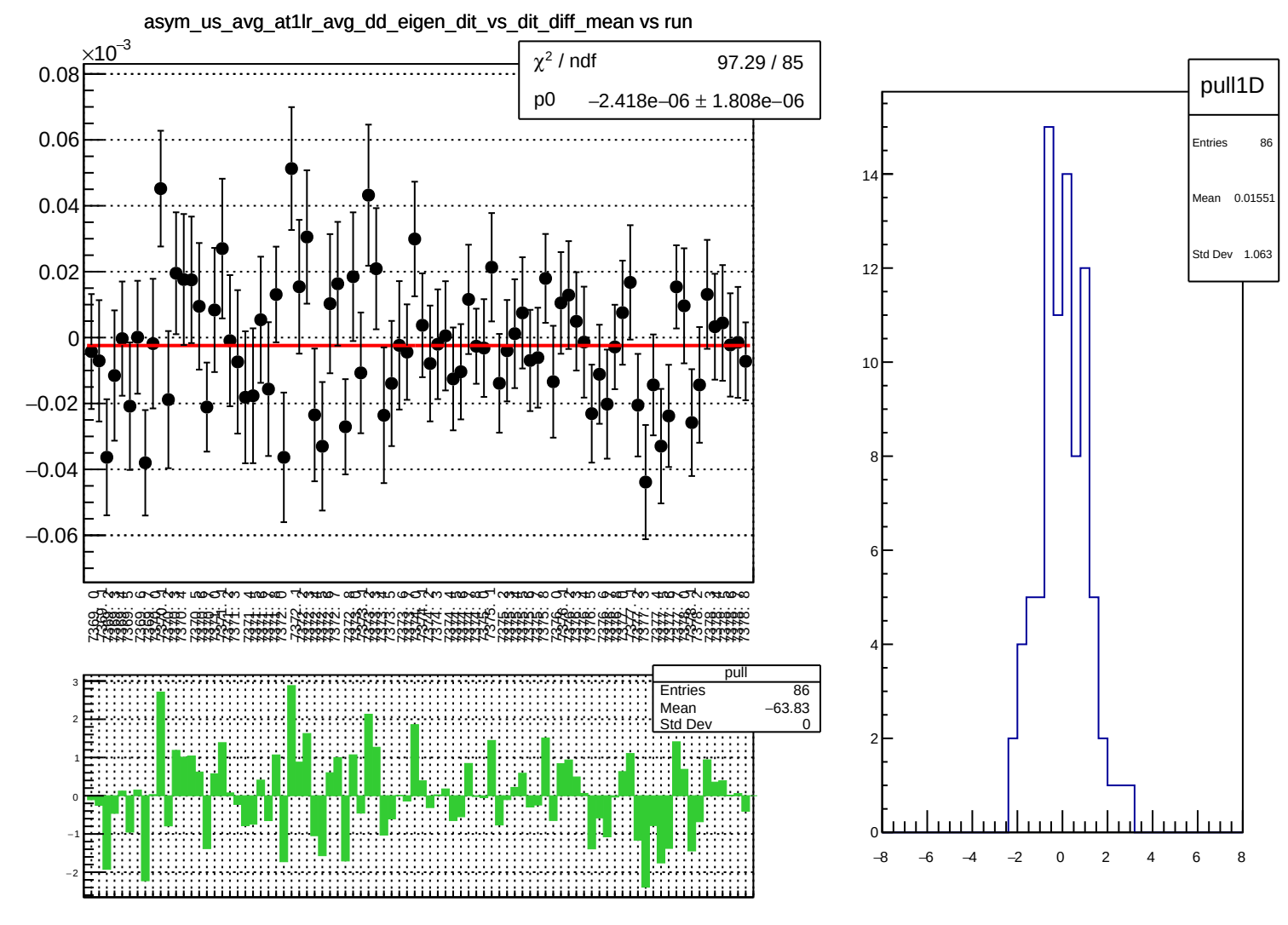

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.534e+05 / 85
p0 79.98 ± 0.06464
200
180
160
140
120
100
80
60
40
20

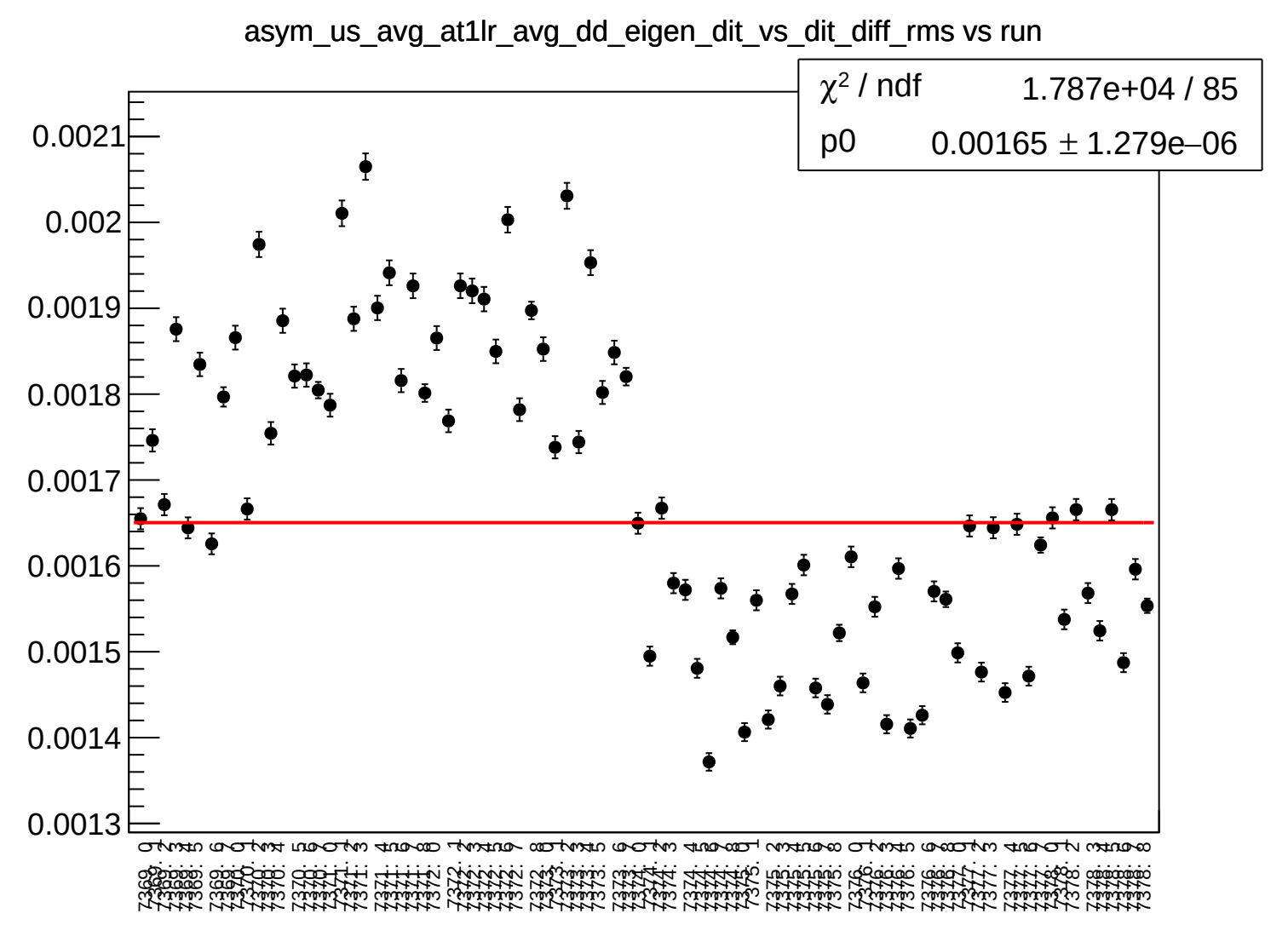
asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run

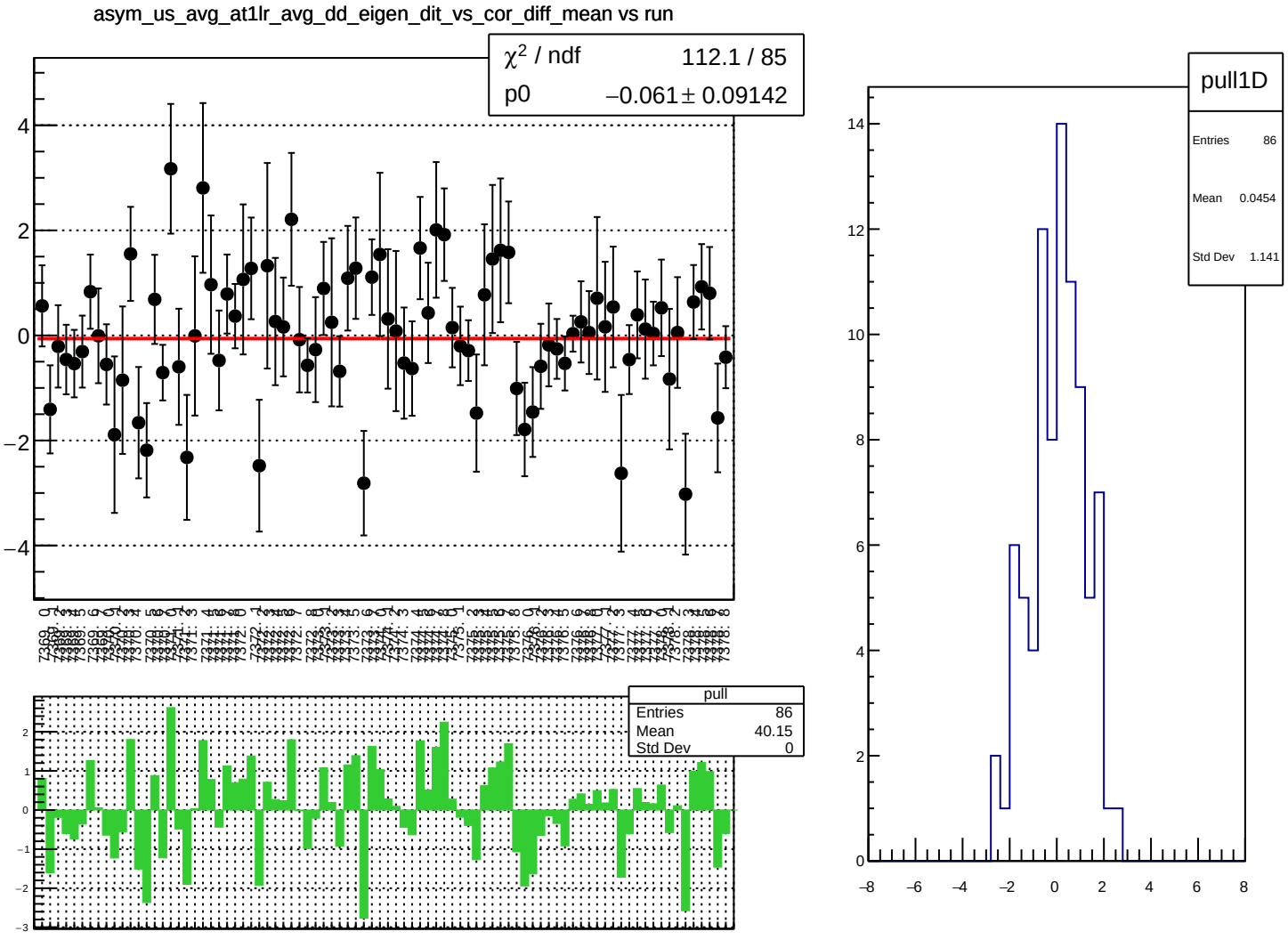


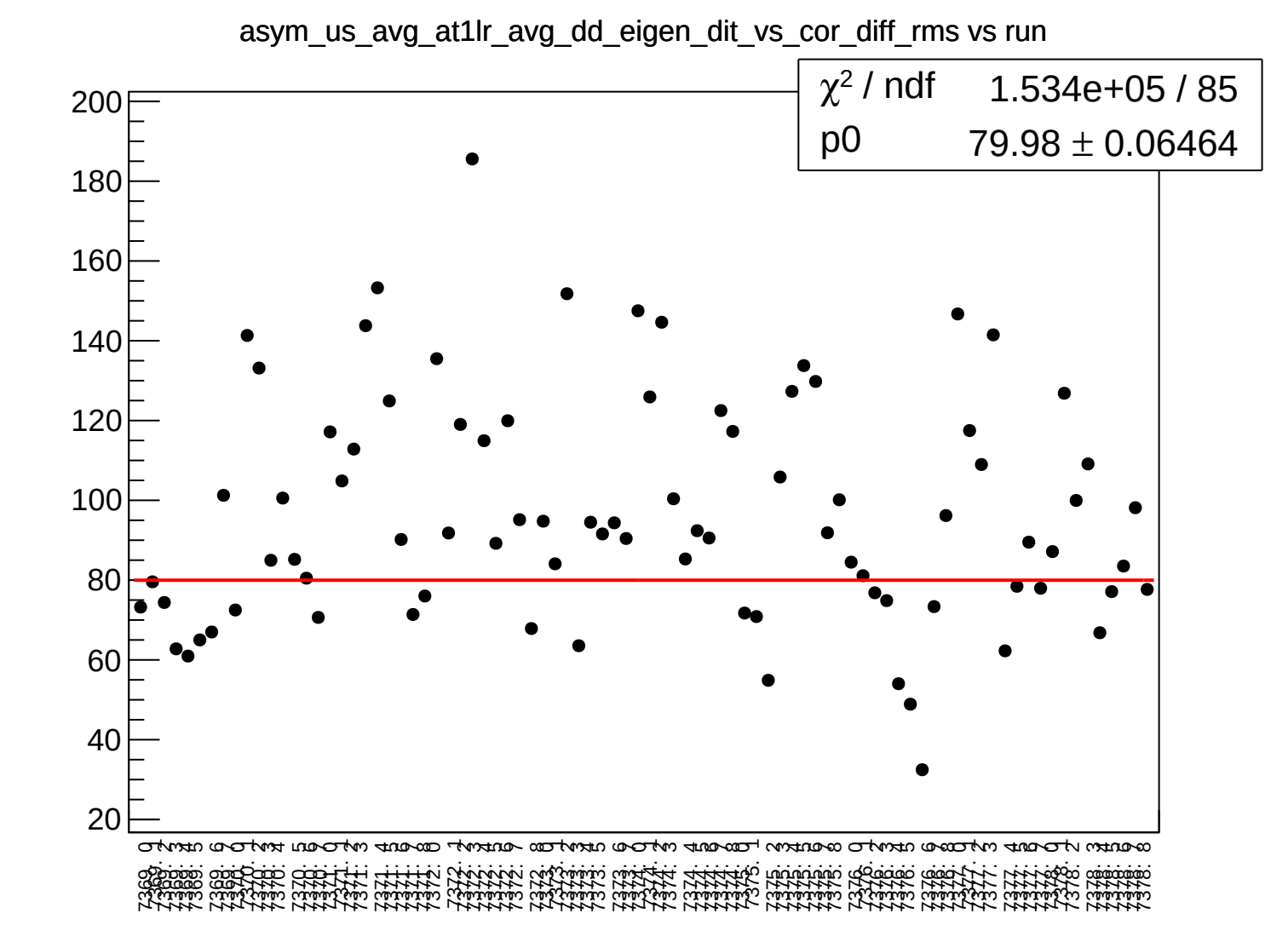



asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.534e+05 / 85
p0 79.98 ± 0.06464
200
180
160
140
120
100
80
60
40
20

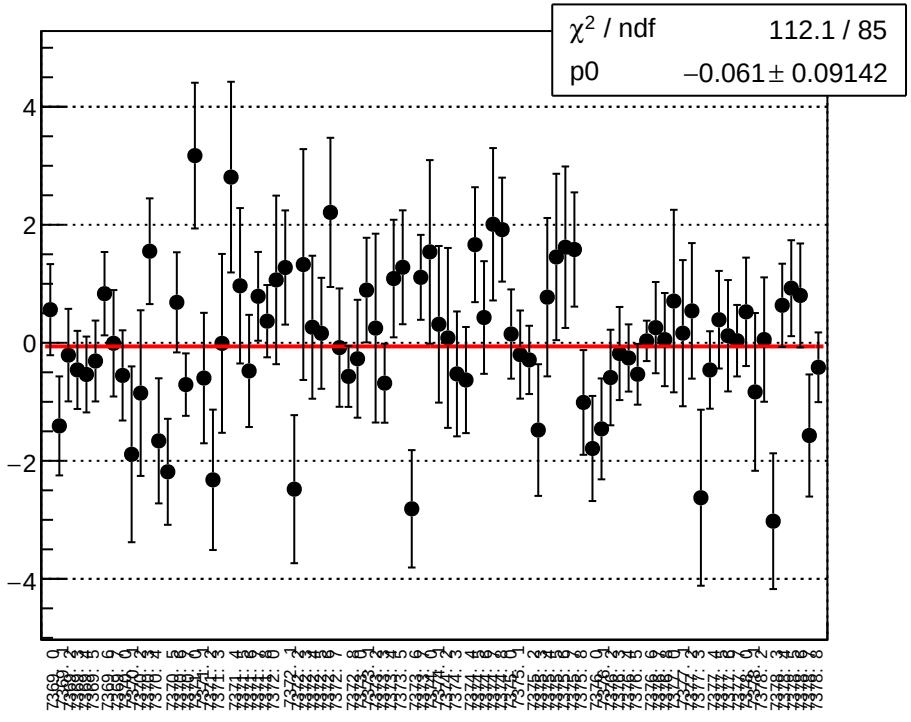

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.29 / 85
p0 −2.418e−06 ± 1.808e−06
pull
Entries 86
Mean −63.83
Std Dev 0
pull1D
Entries 86
Mean 0.01551
Std Dev 1.063

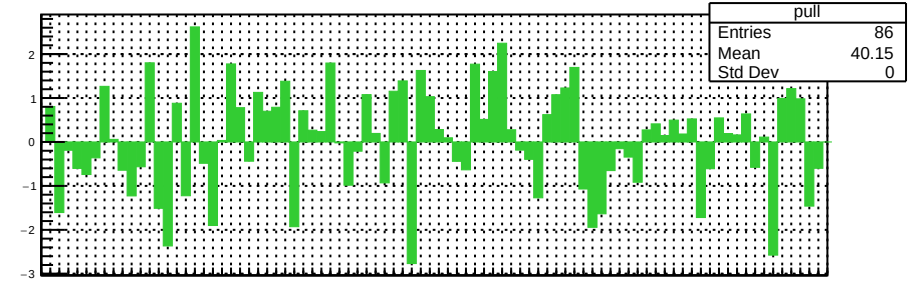

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.787e+04 / 85
p0 0.00165 ± 1.279e–06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

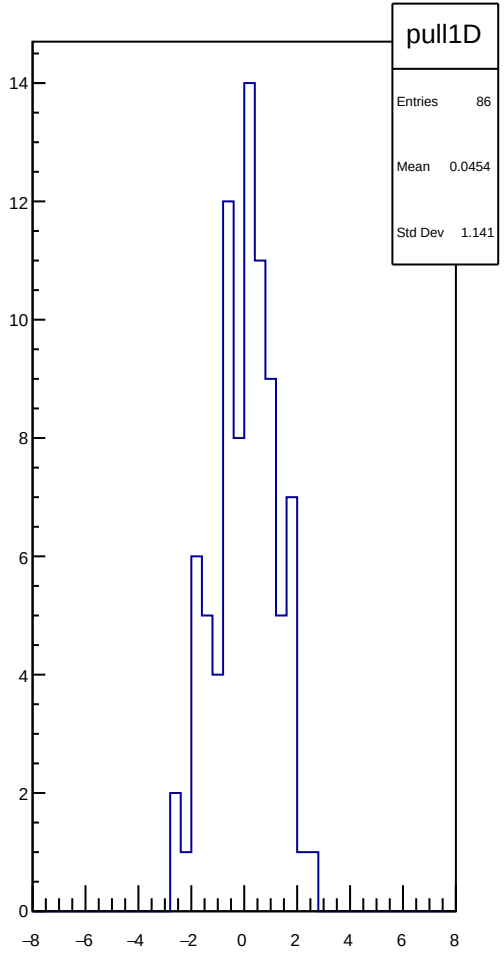

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 85
p0 −0.061 ± 0.09142
pull
Entries 86
Mean 40.15
Std Dev 0
pull1D
Entries 86
Mean 0.0454
Std Dev 1.141

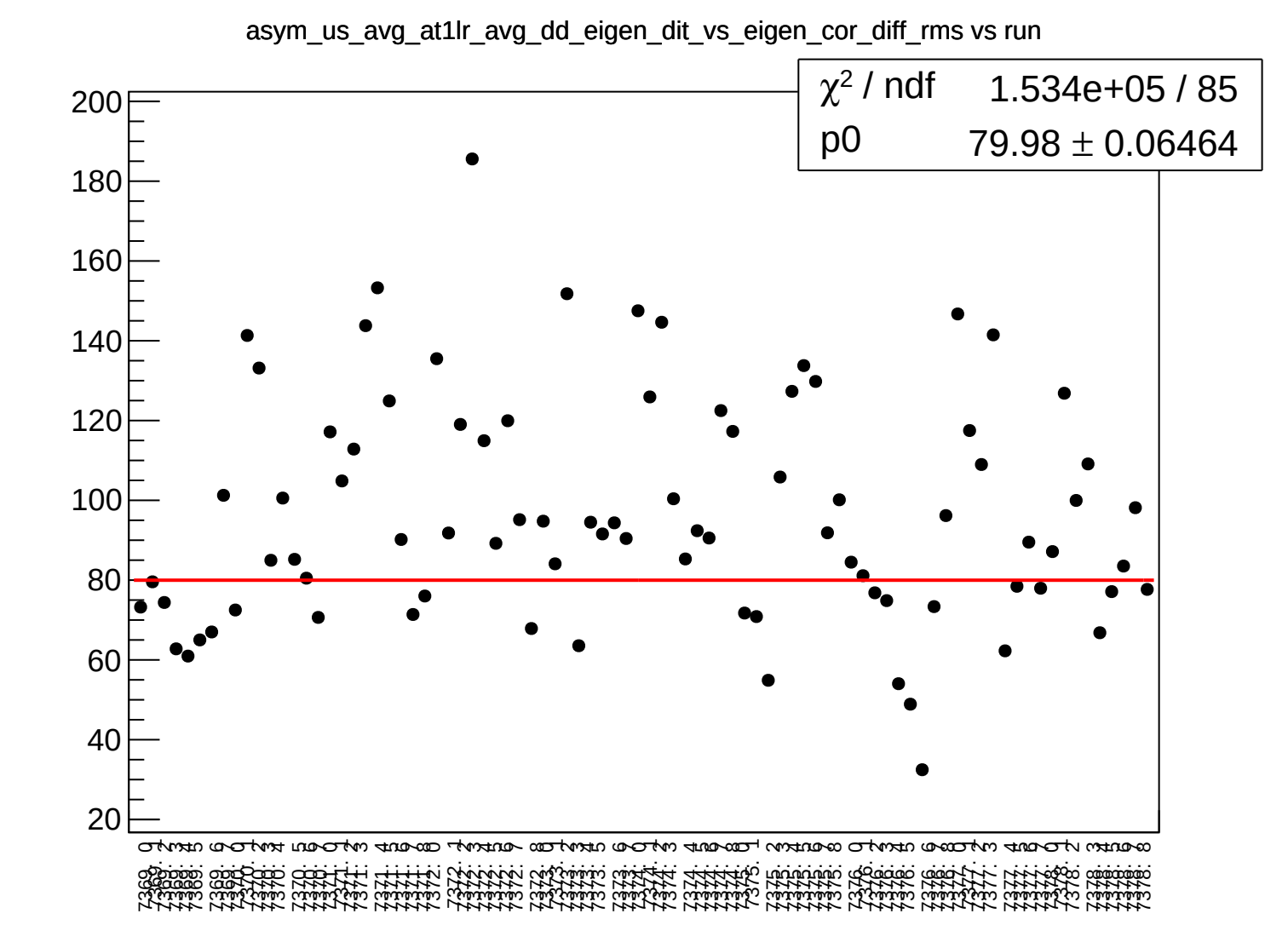

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.534e+05 / 85
p0 79.98 ± 0.06464
200
180
160
140
120
100
80
60
40
20

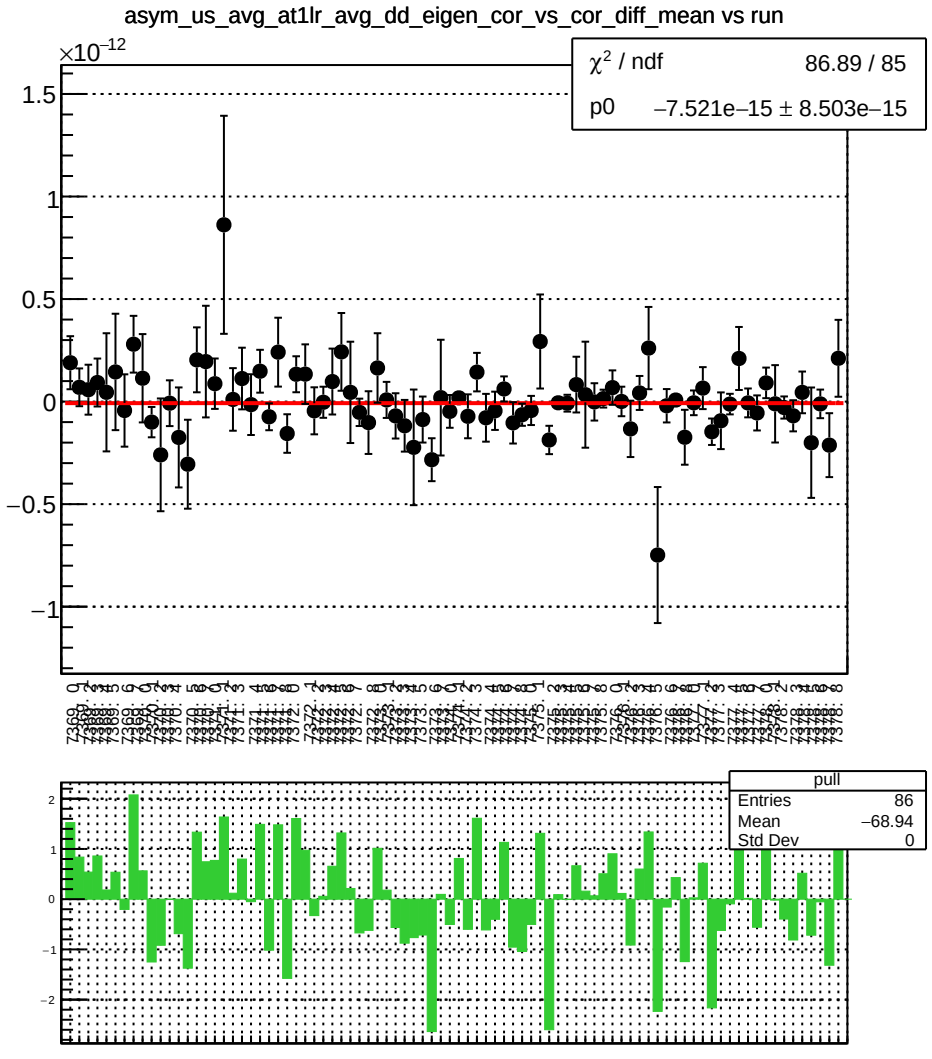
asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

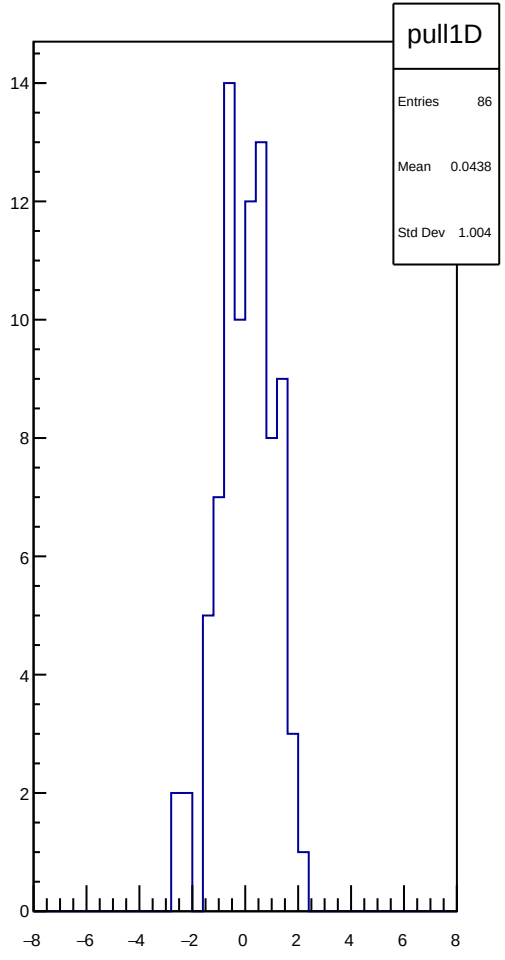


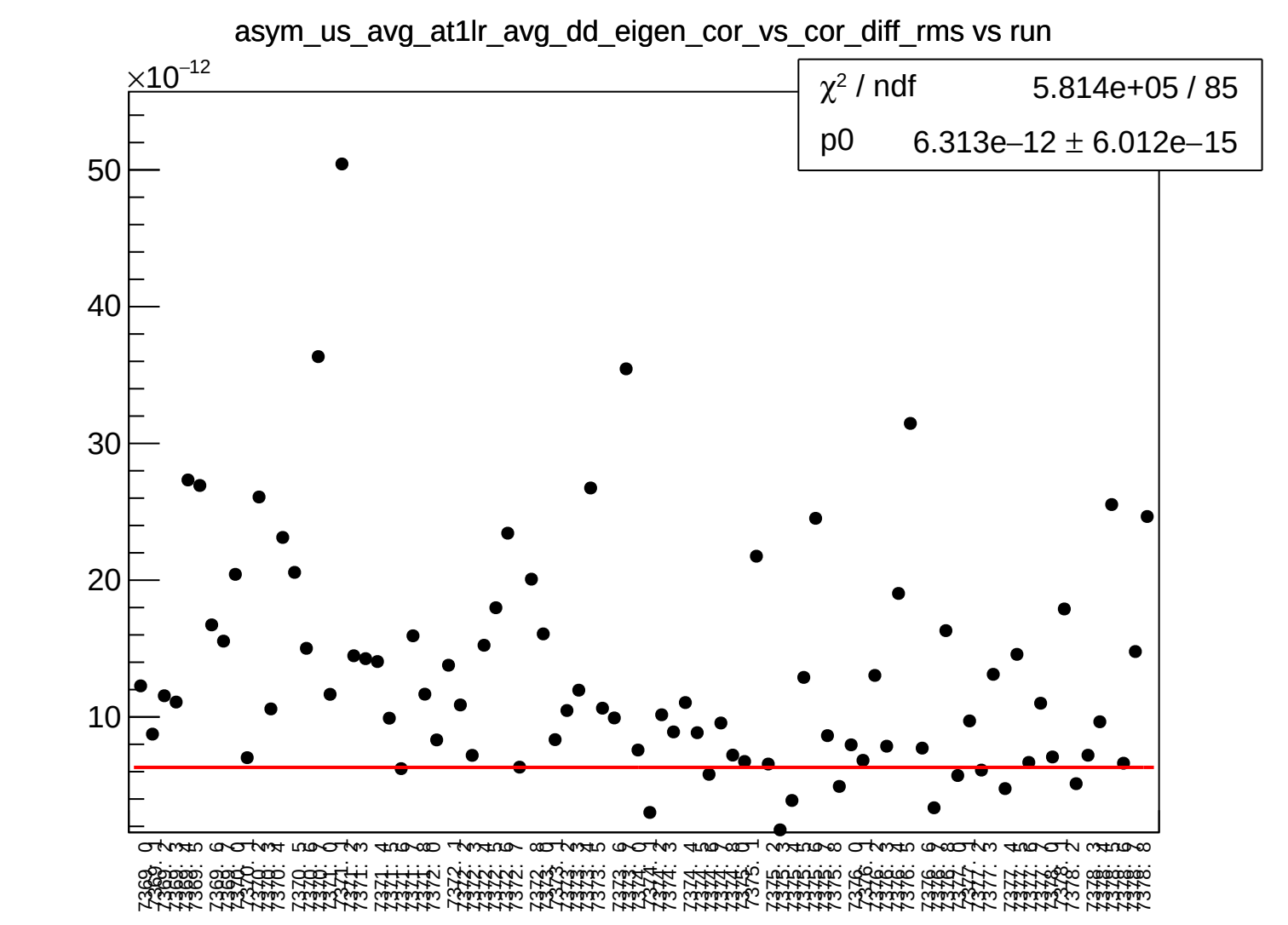


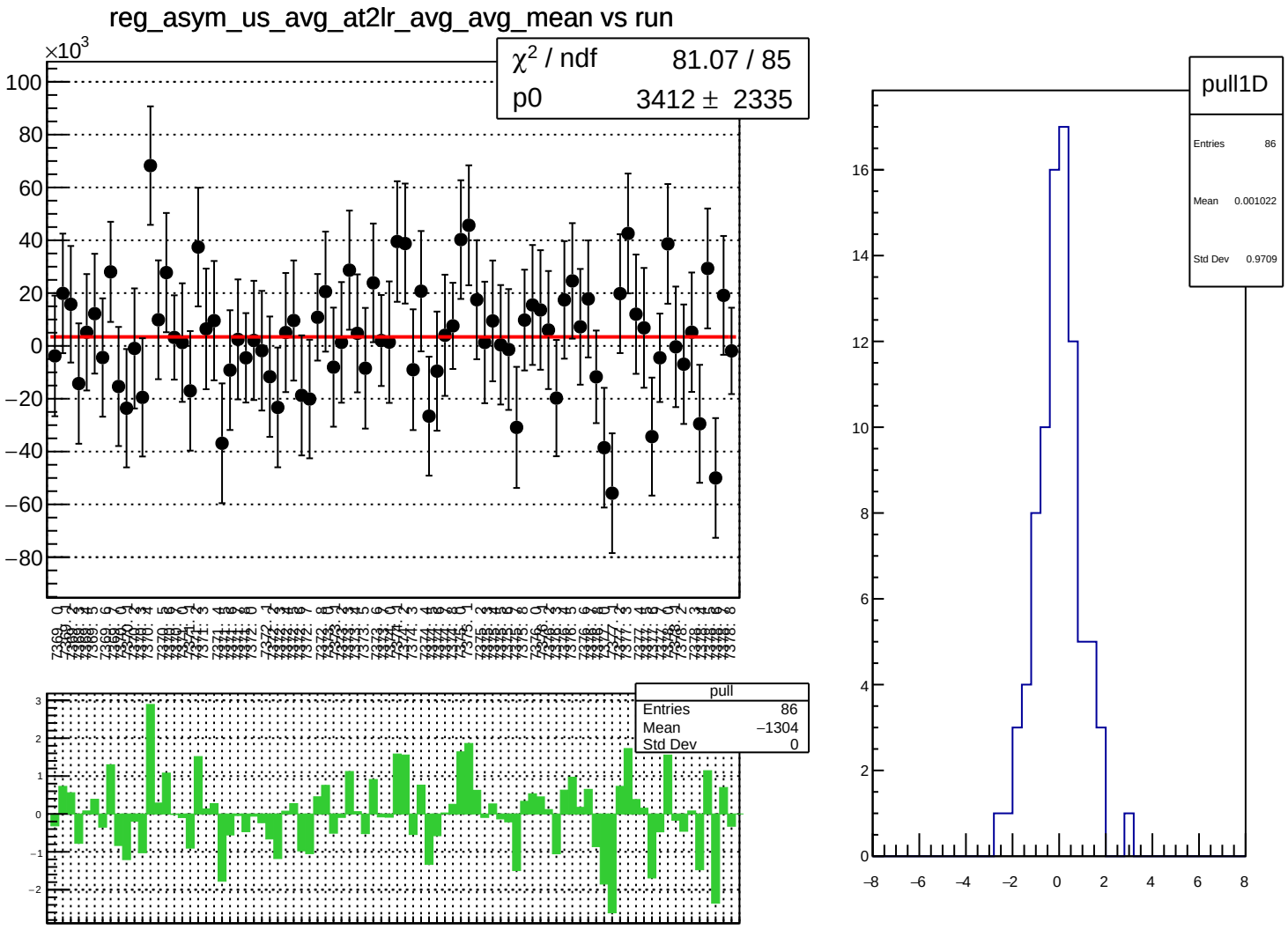


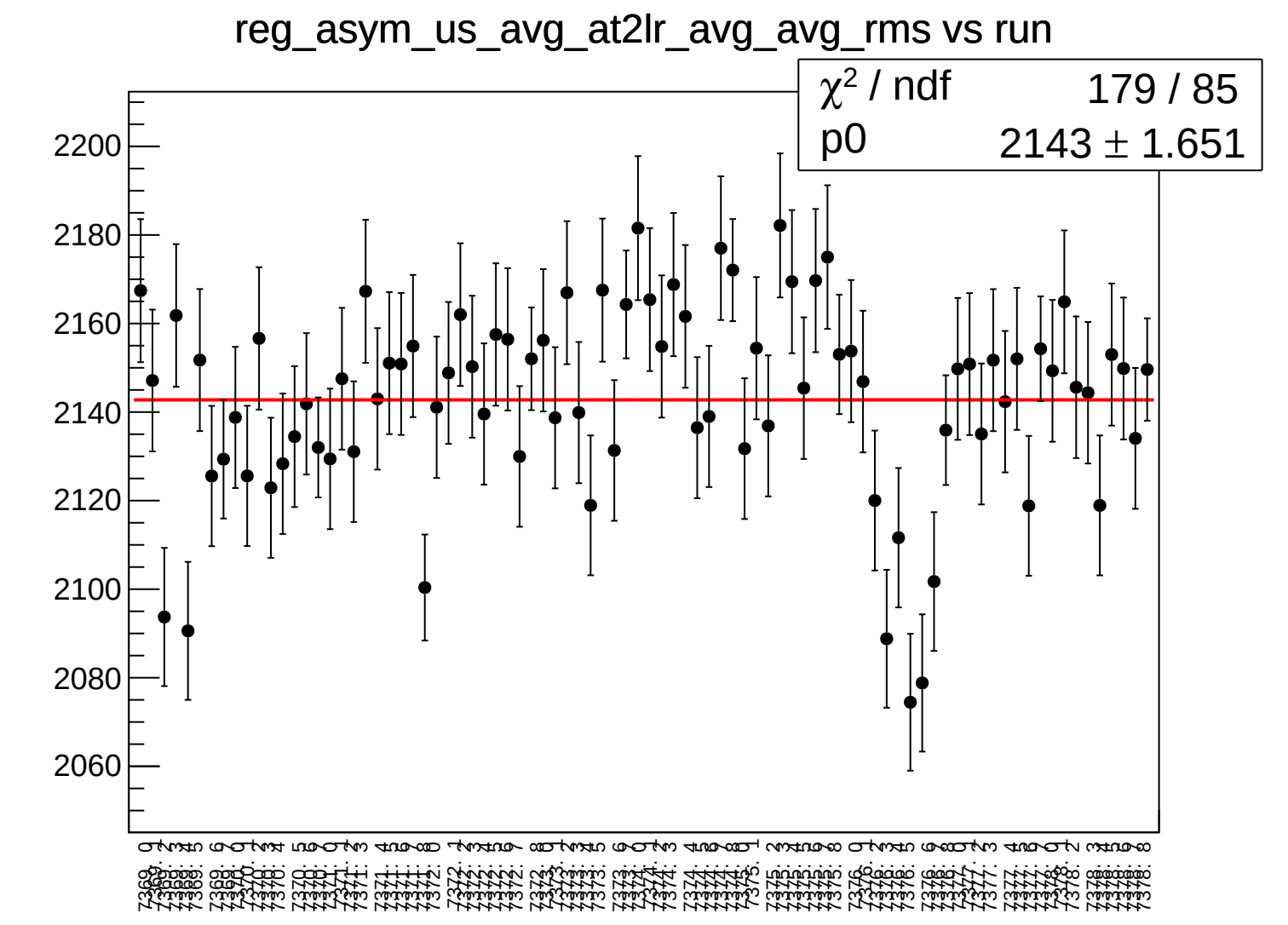

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.534e+05 / 85
p0 79.98 ± 0.06464
200
180
160
140
120
100
80
60
40
20

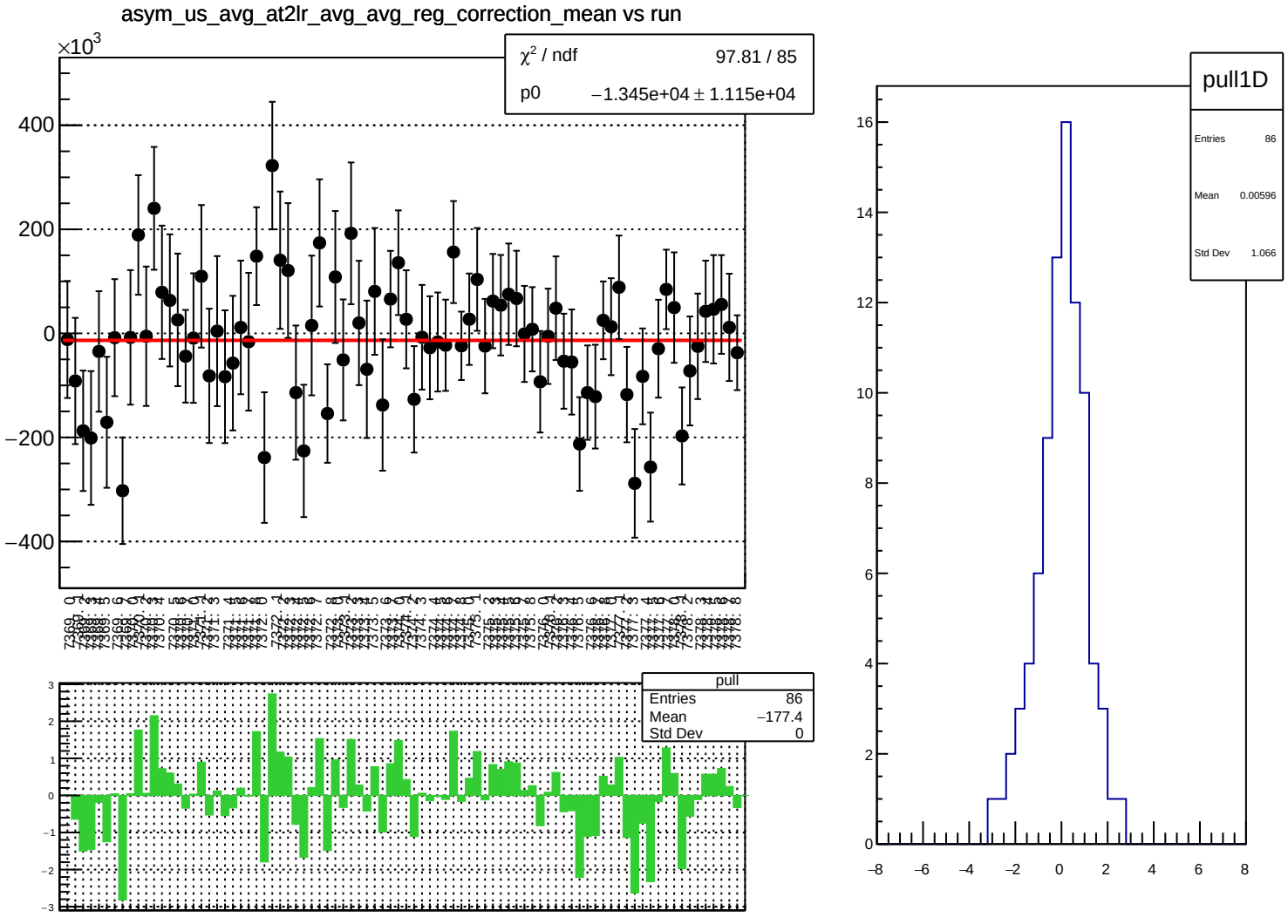

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.89 / 85
p0 −7.521e−15 ± 8.503e−15
1.5
1
0.5
0
−0.5
−1
pull
Entries 86
Mean −68.94
Std Dev 0
2
1
0
−1
−2

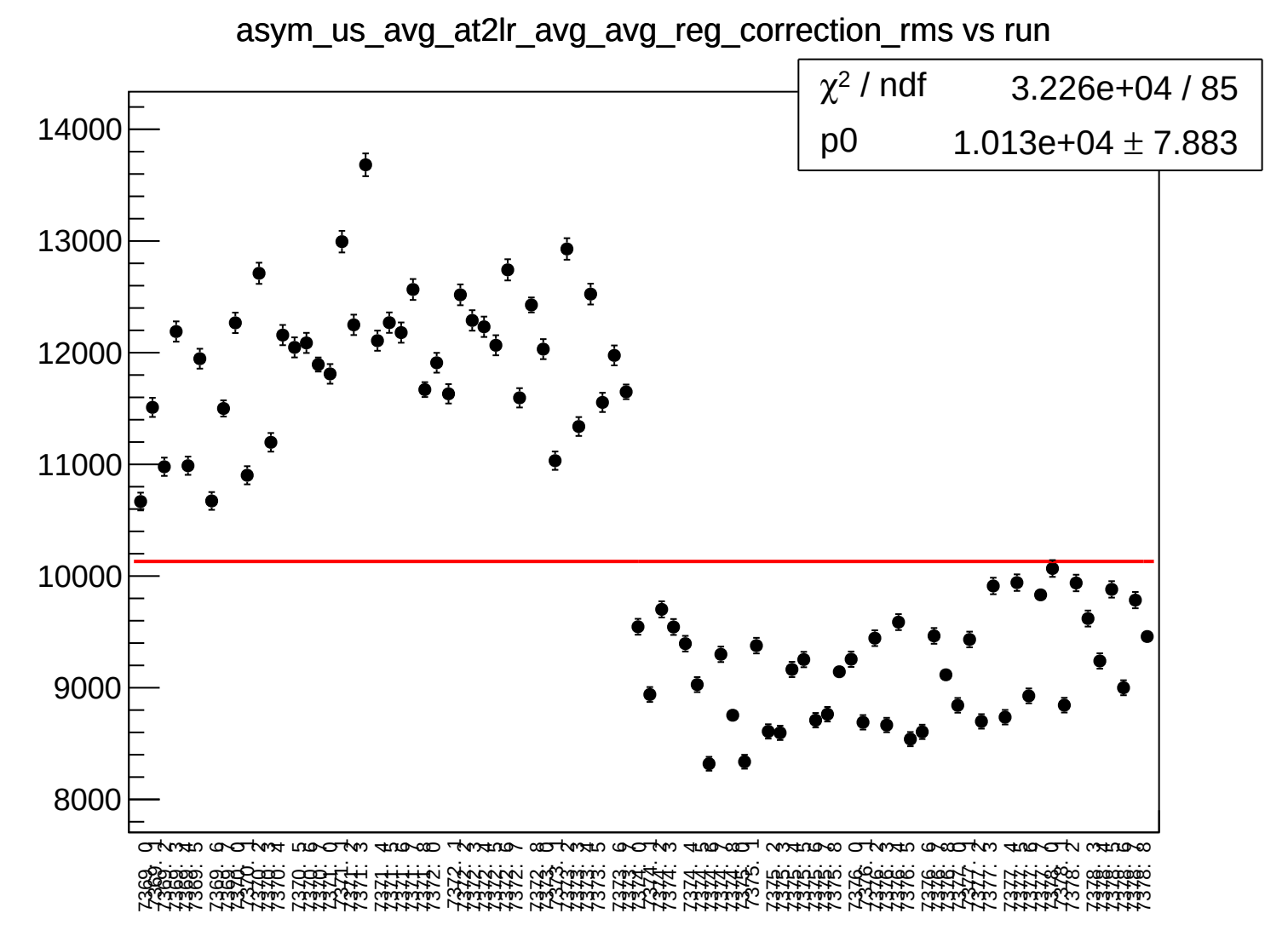

pull1D
Entries 86
Mean 0.0438
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

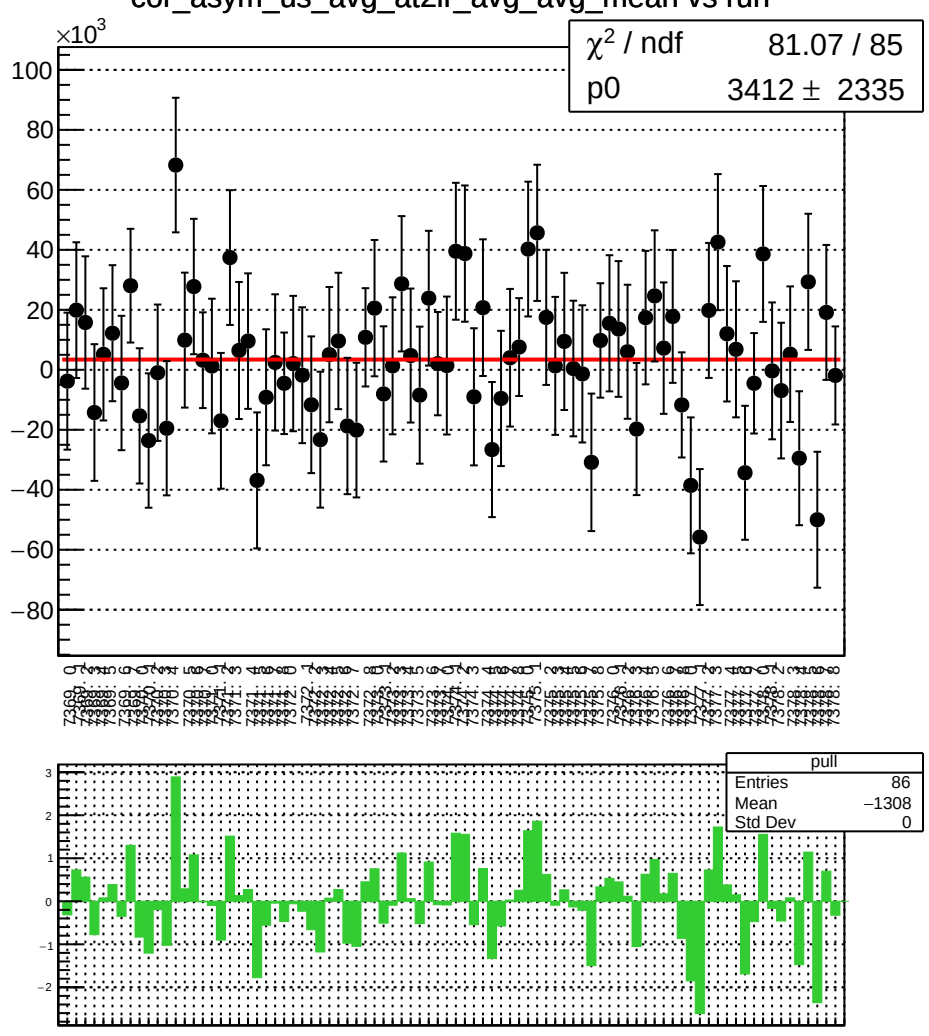

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.814e+05 / 85
p0 6.313e−12 ± 6.012e−15
50
40
30
20
10

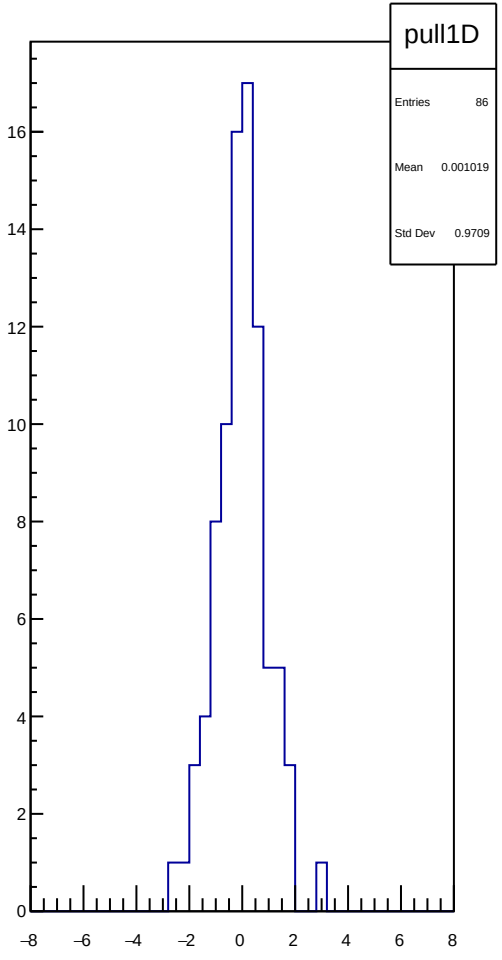

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 81.07 / 85
p0 3412 ± 2335
pull
Entries 86
Mean −1304
Std Dev 0
pull1D
Entries 86
Mean 0.001022
Std Dev 0.9709

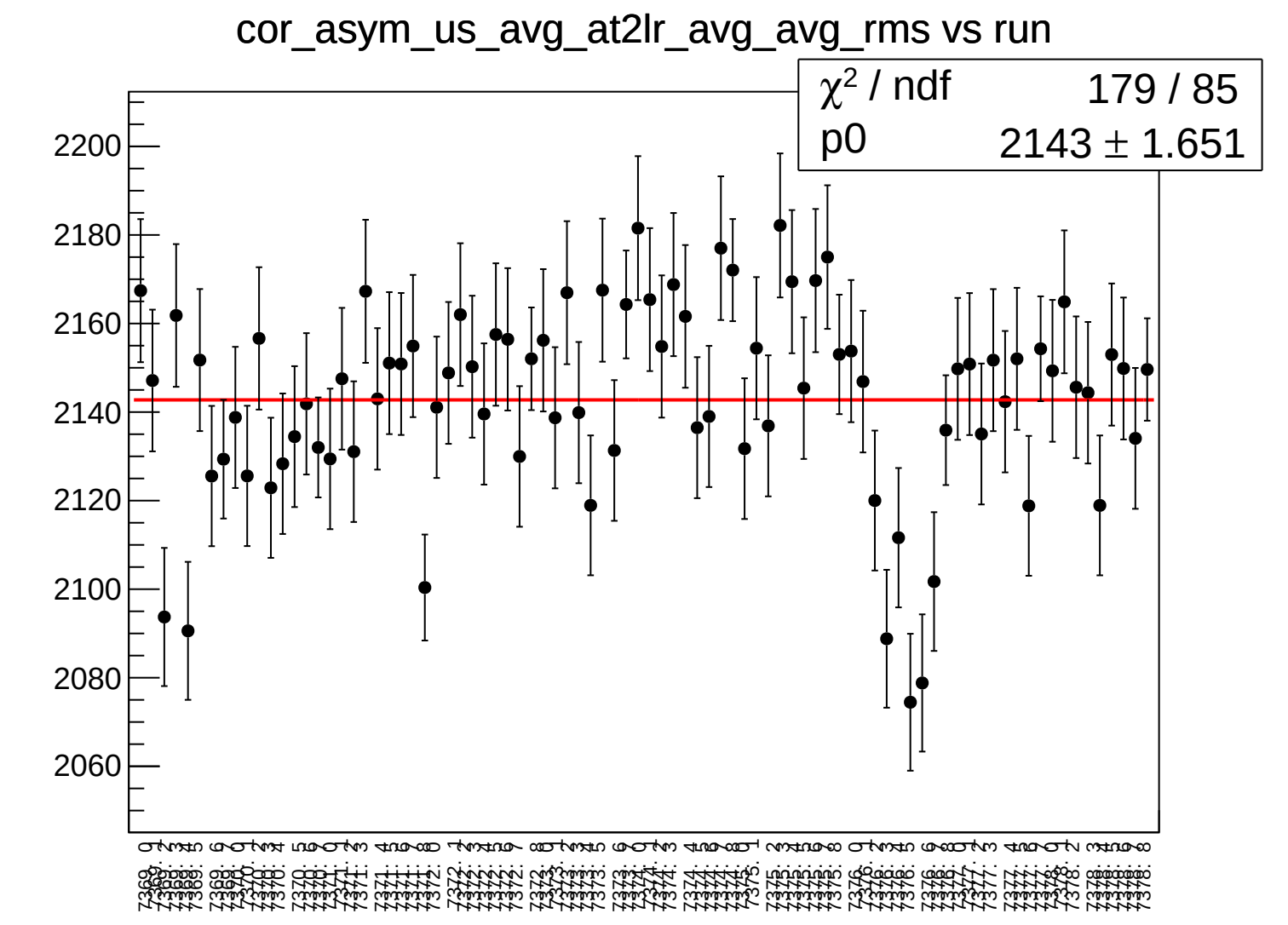

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 179 / 85
p0 2143 ± 1.651
2200
2180
2160
2140
2120
2100
2080
2060

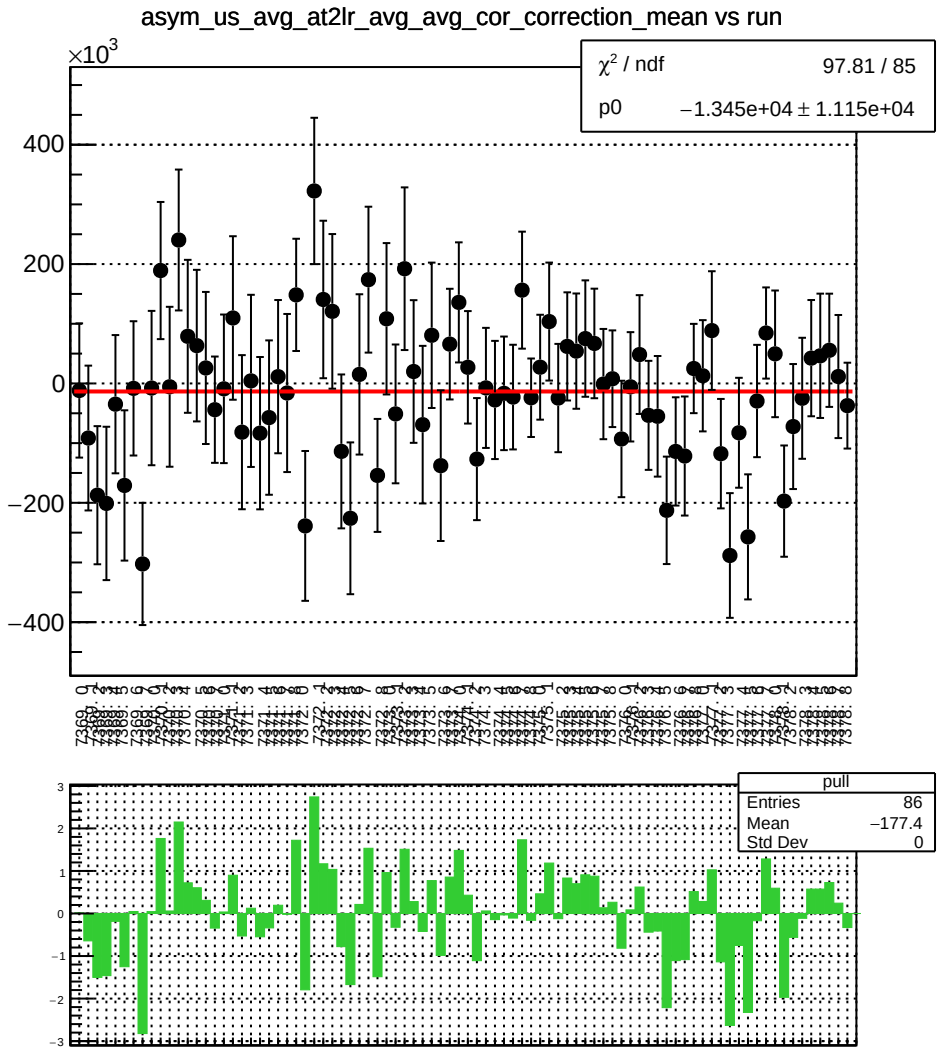

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 97.81 / 85
p0 −1.345e+04 ± 1.115e+04
pull
Entries 86
Mean −177.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.00596
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

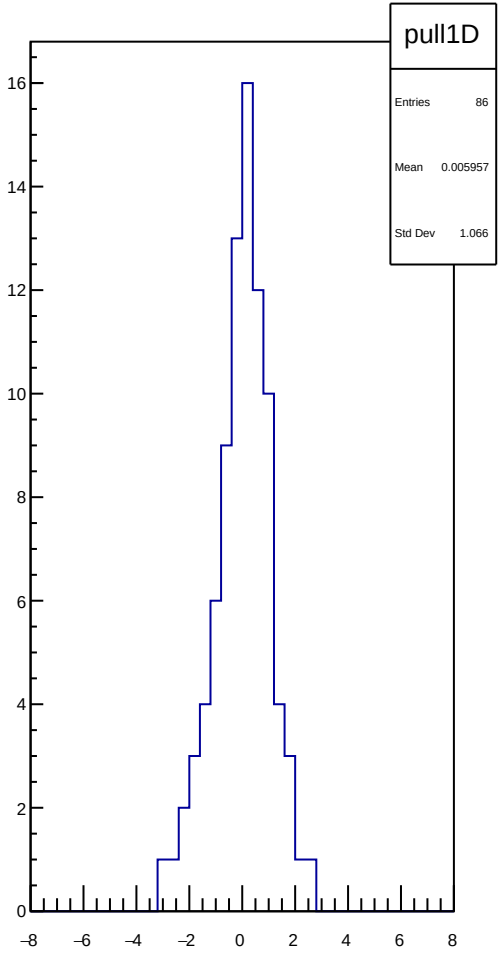

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.226e+04 / 85
p0 1.013e+04 ± 7.883
14000
13000
12000
11000
10000
9000
8000

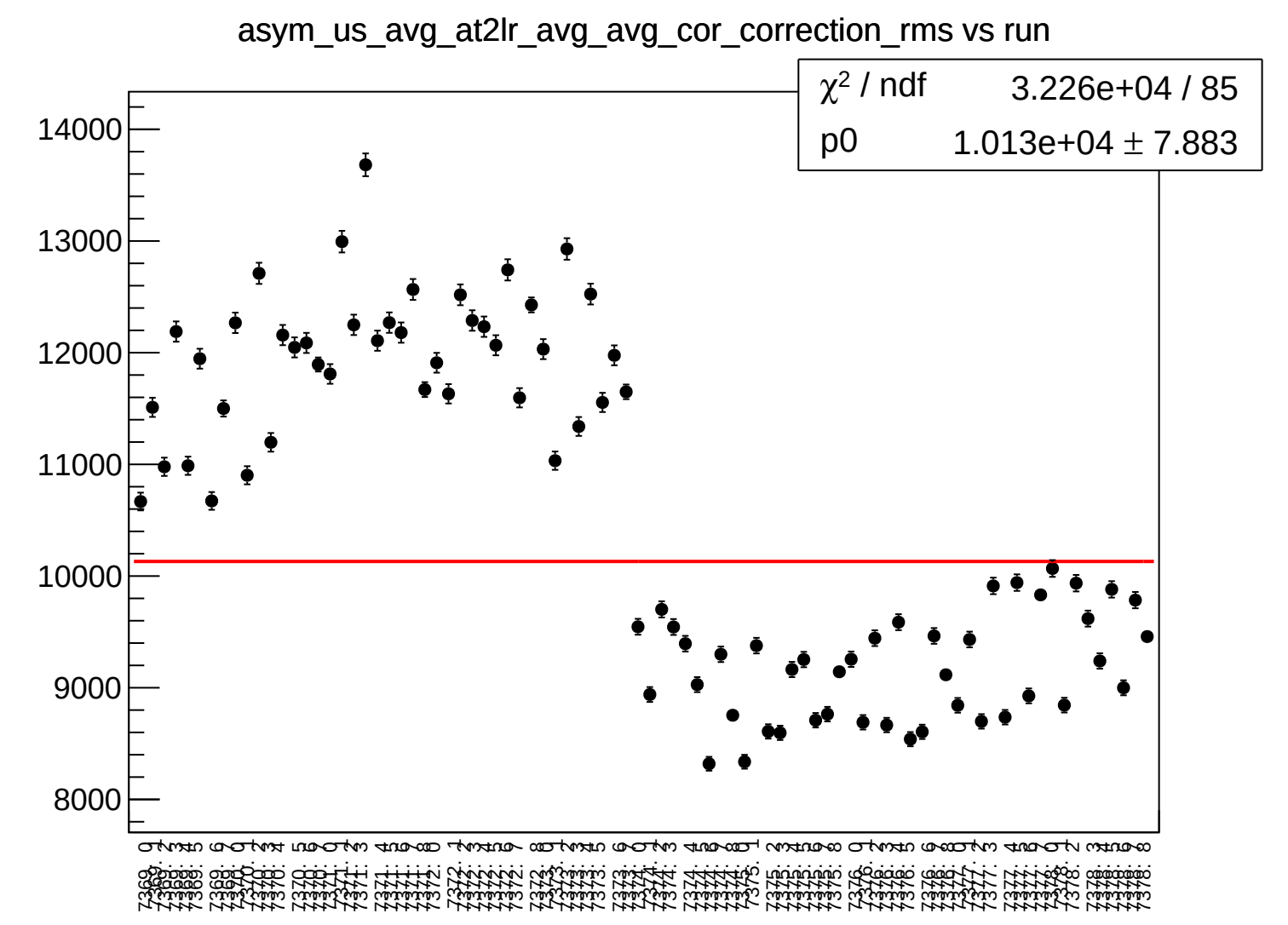

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 81.07 / 85
p0 3412 ± 2335
pull
Entries 86
Mean −1308
Std Dev 0

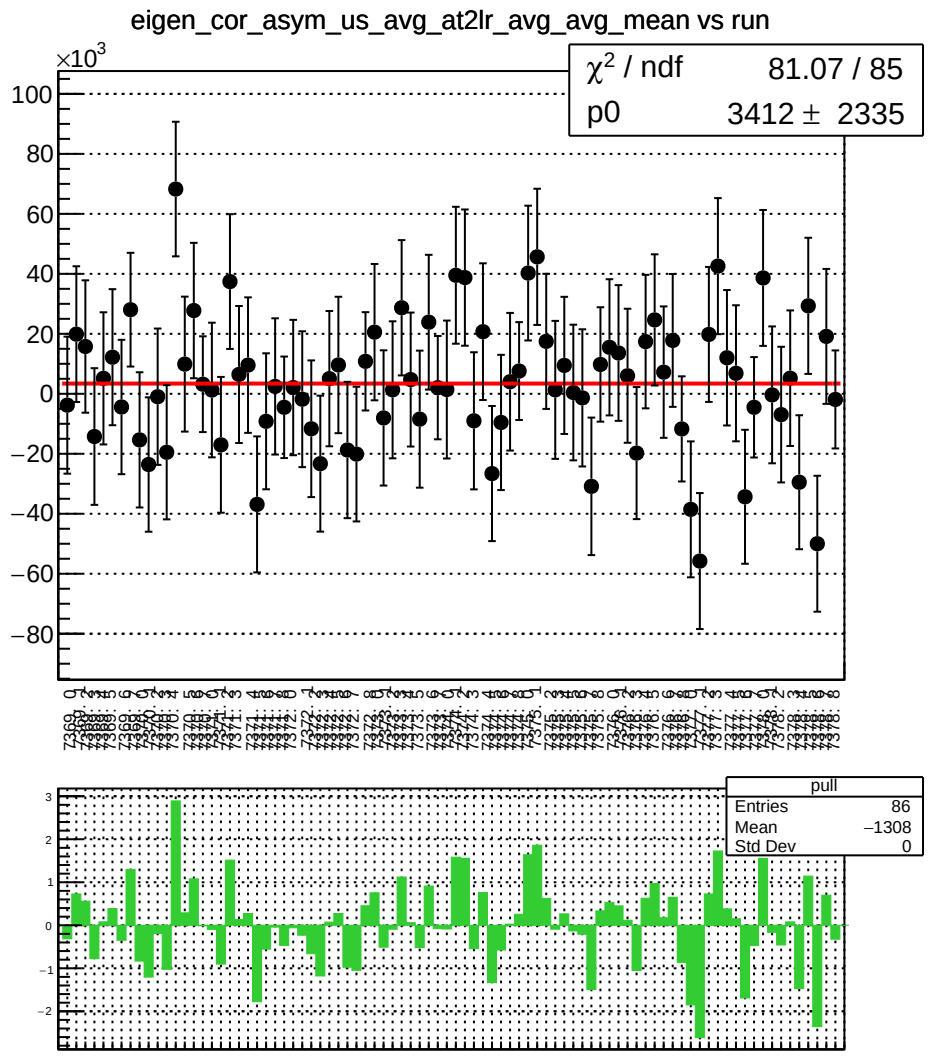

pull1D
Entries 86
Mean 0.001019
Std Dev 0.9709

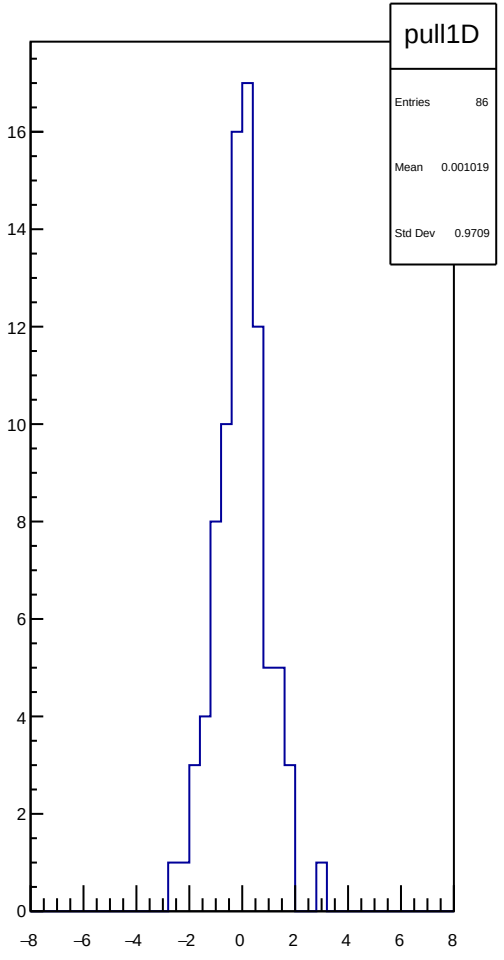

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 179 / 85
p0 2143 ± 1.651
2200
2180
2160
2140
2120
2100
2080
2060

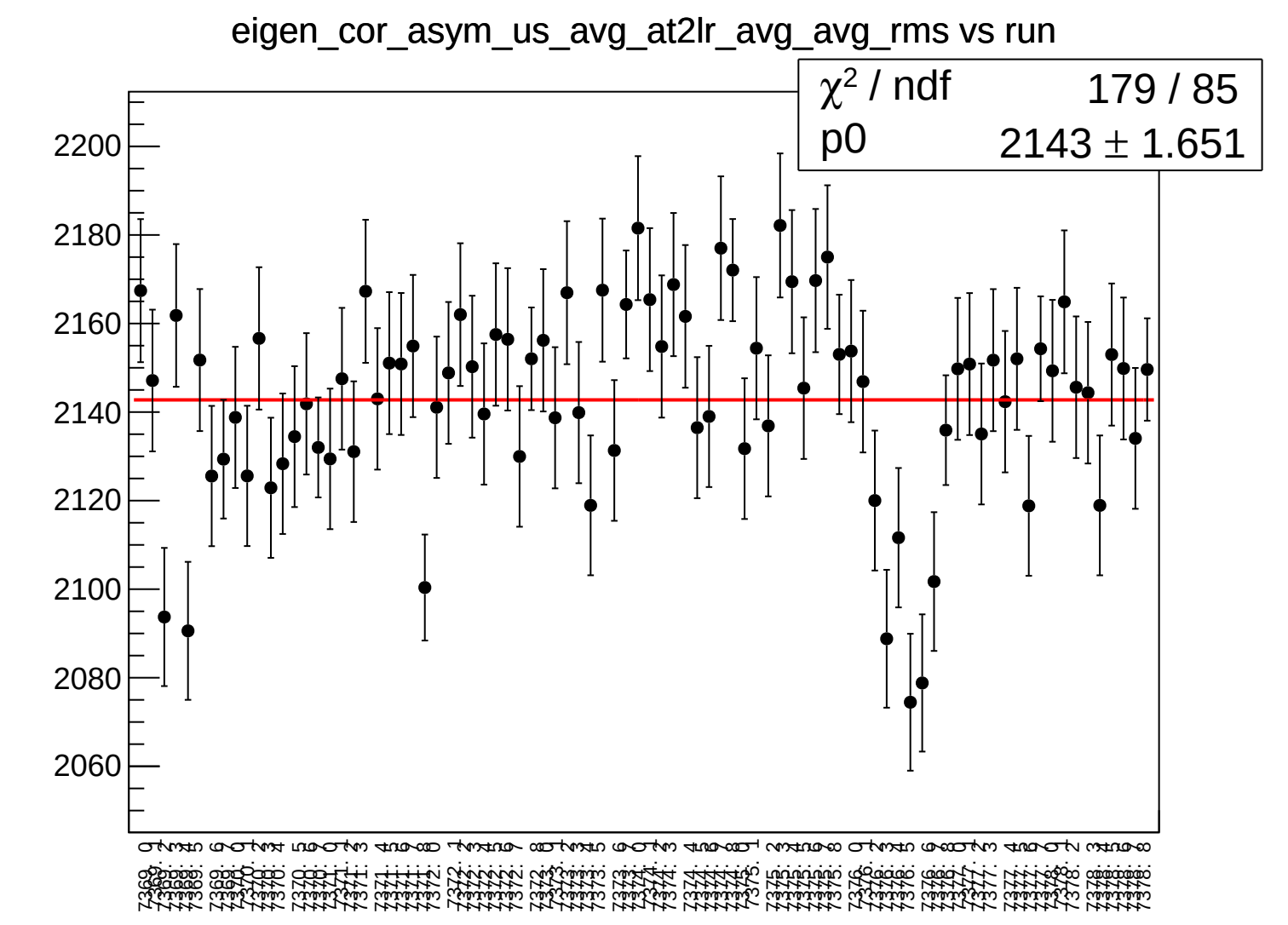

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.81 / 85
p0 −1.345e+04 ± 1.115e+04
pull
Entries 86
Mean −177.4
Std Dev 0

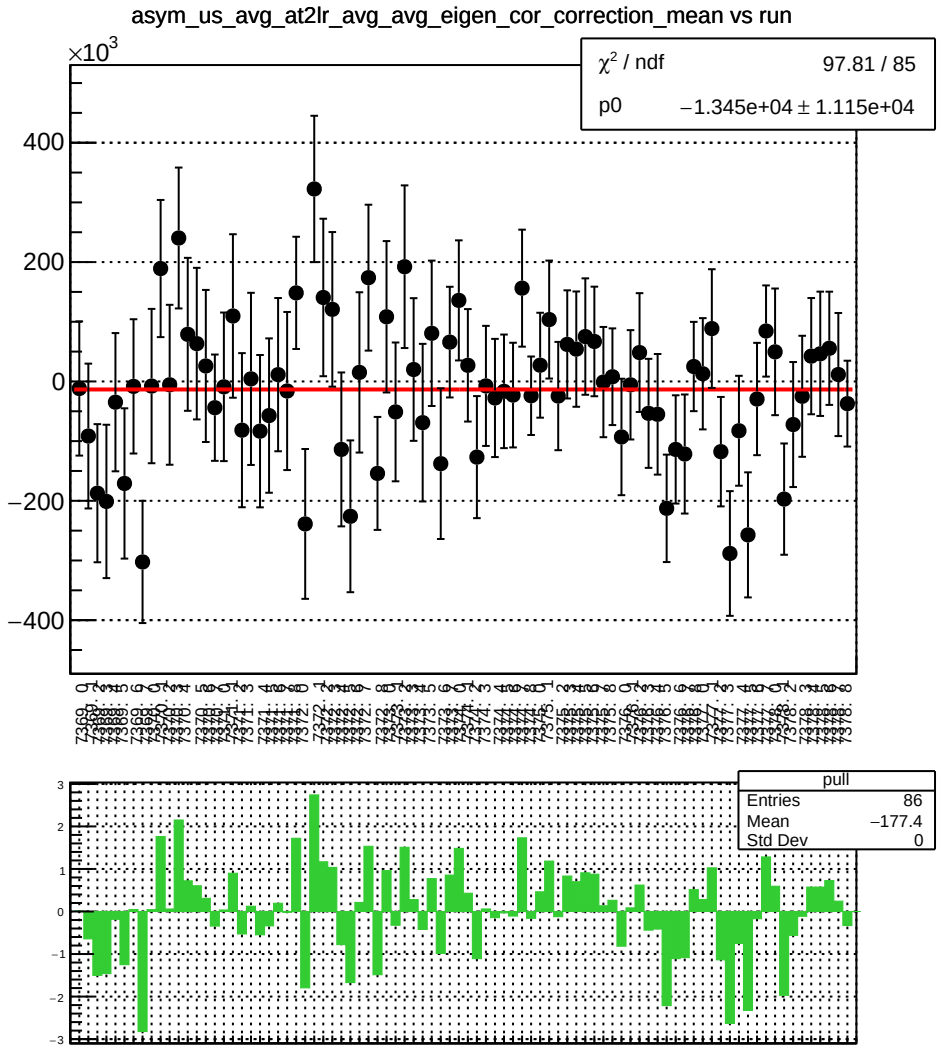

pull1D
Entries 86
Mean 0.005957
Std Dev 1.066

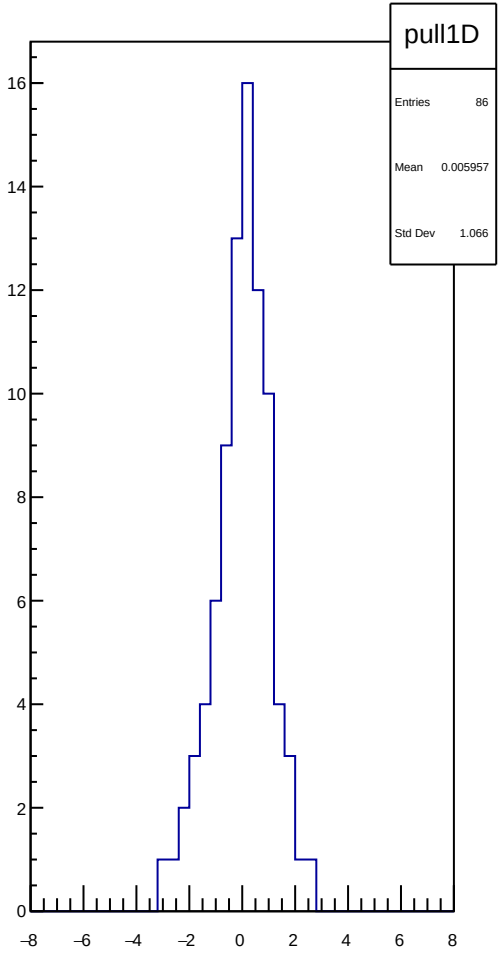

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.226e+04 / 85
p0 1.013e+04 ± 7.883
14000
13000
12000
11000
10000
9000
8000

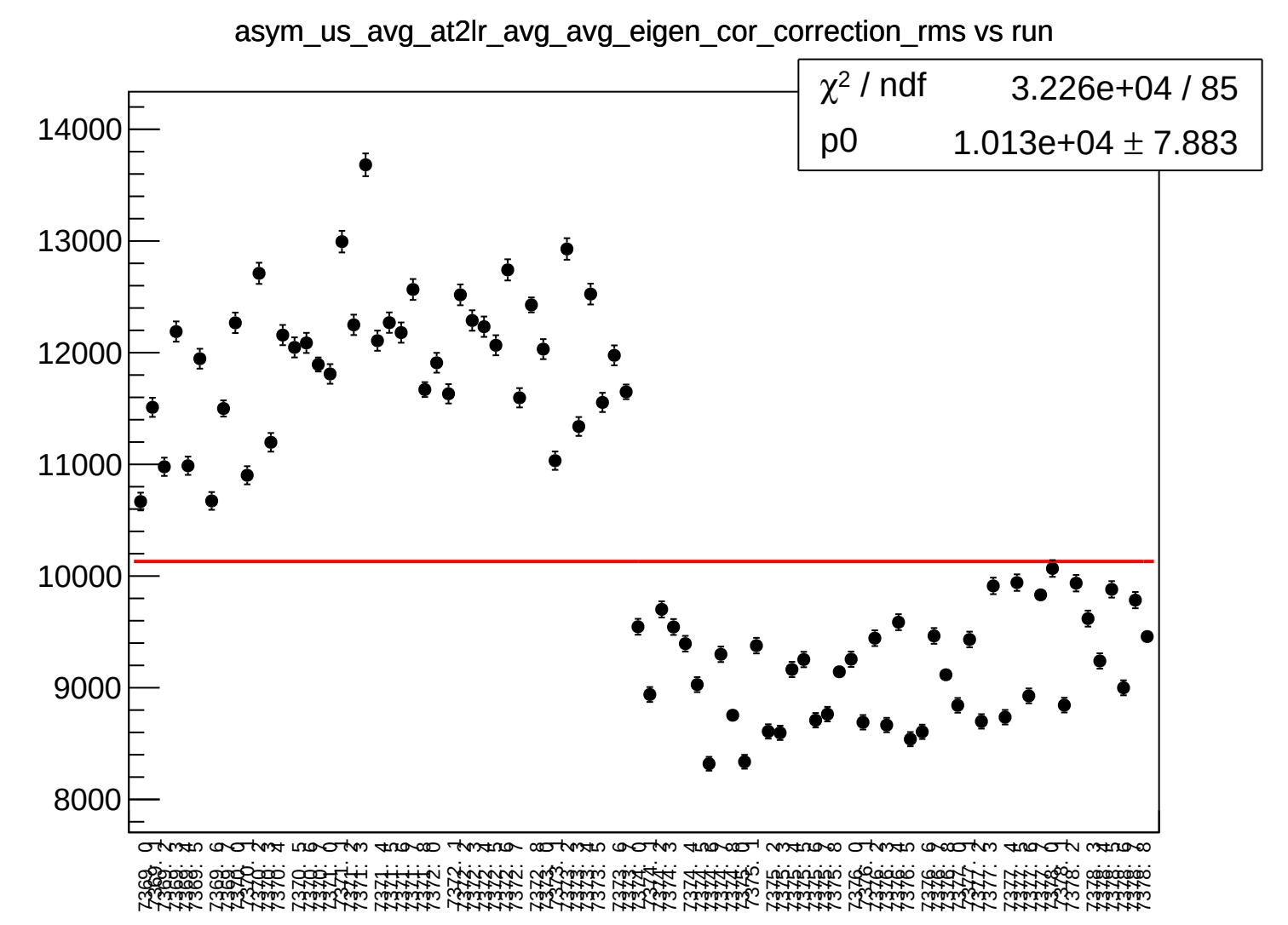

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 81.07 / 85
p0 3412 ± 2335
pull
Entries 86
Mean −1308
Std Dev 0

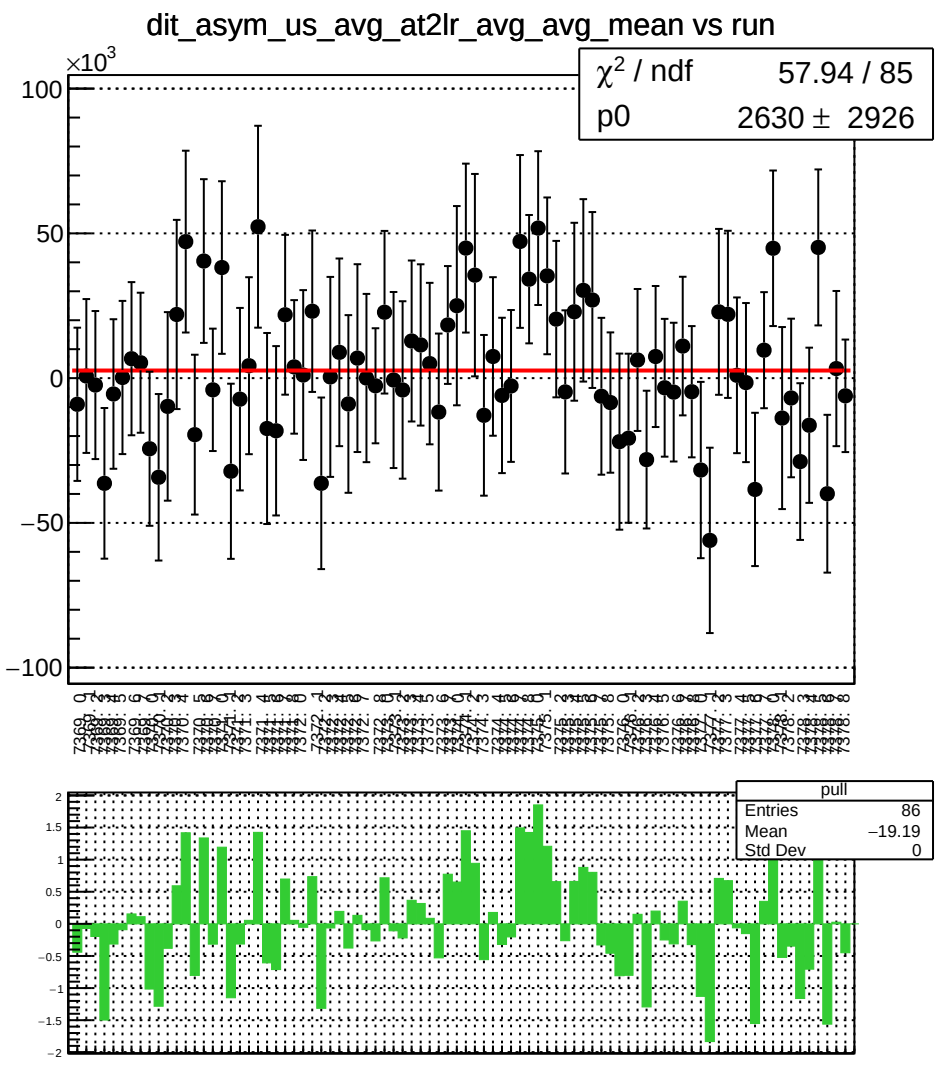

pull1D
Entries 86
Mean 0.001019
Std Dev 0.9709

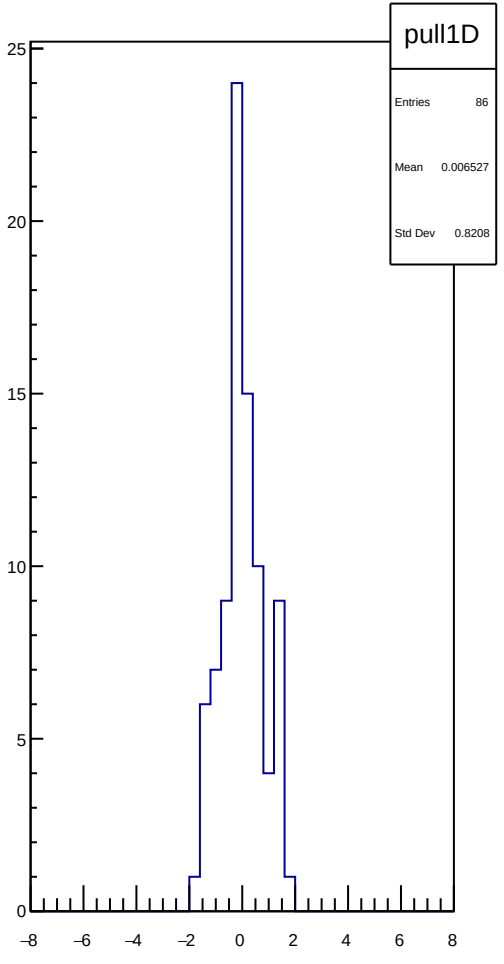

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 179 / 85
p0 2143 ± 1.651
2200
2180
2160
2140
2120
2100
2080
2060

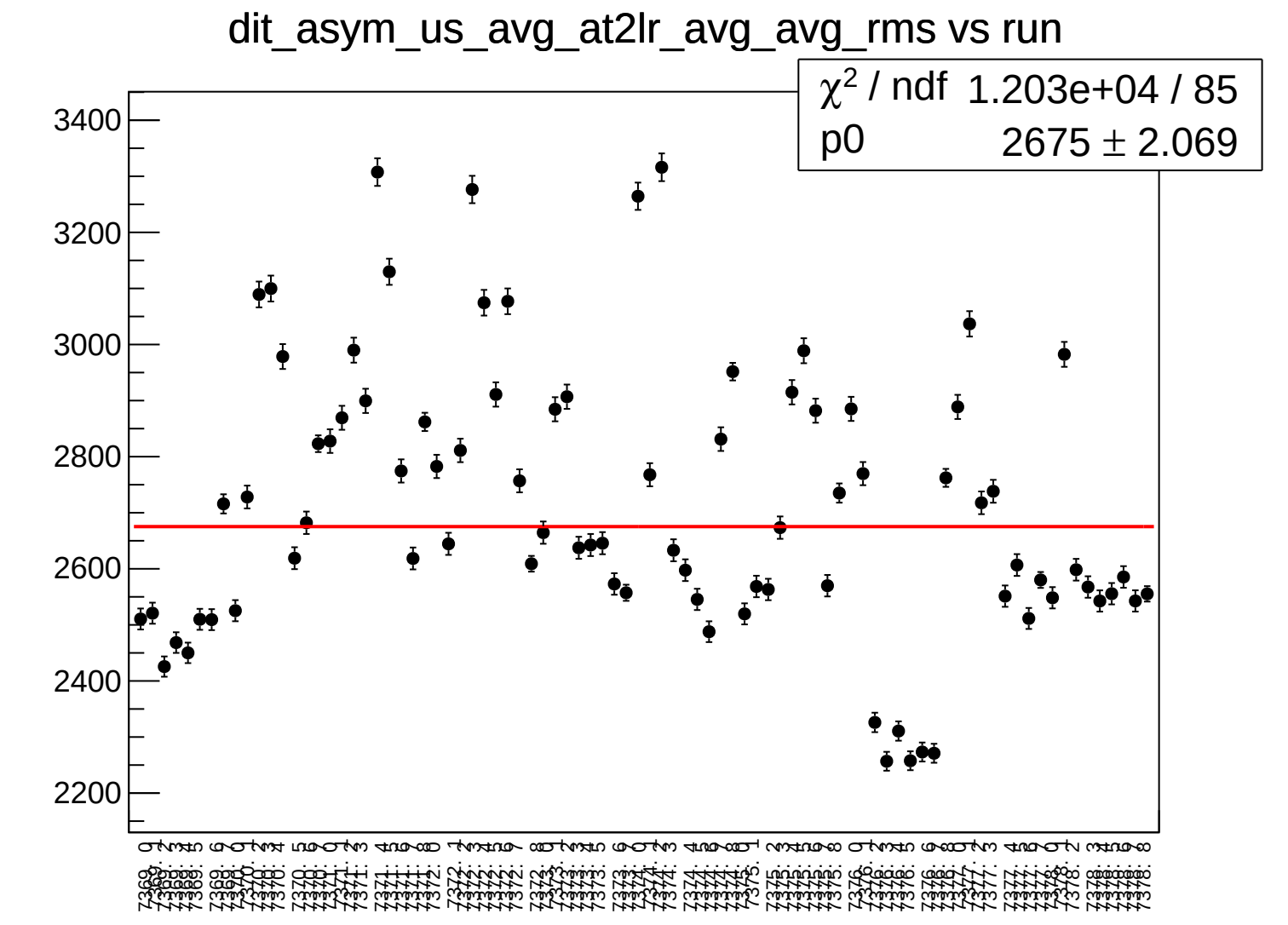

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.81 / 85
p0 −1.345e+04 ± 1.115e+04
400
200
0
−200
−400
pull
Entries 86
Mean −177.4
Std Dev 0
3
2
1
0
−1
−2
−3

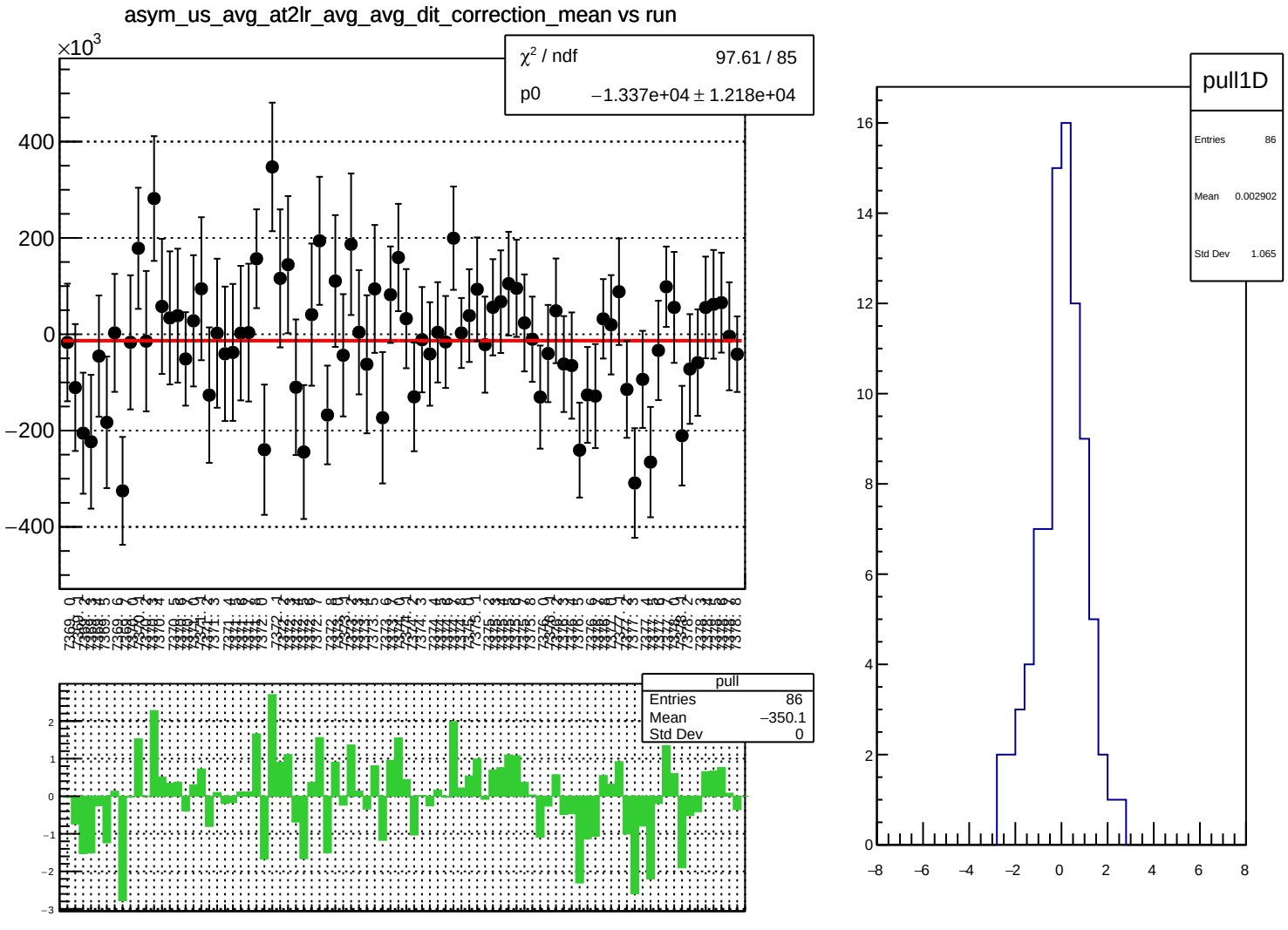

pull1D
Entries 86
Mean 0.005957
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

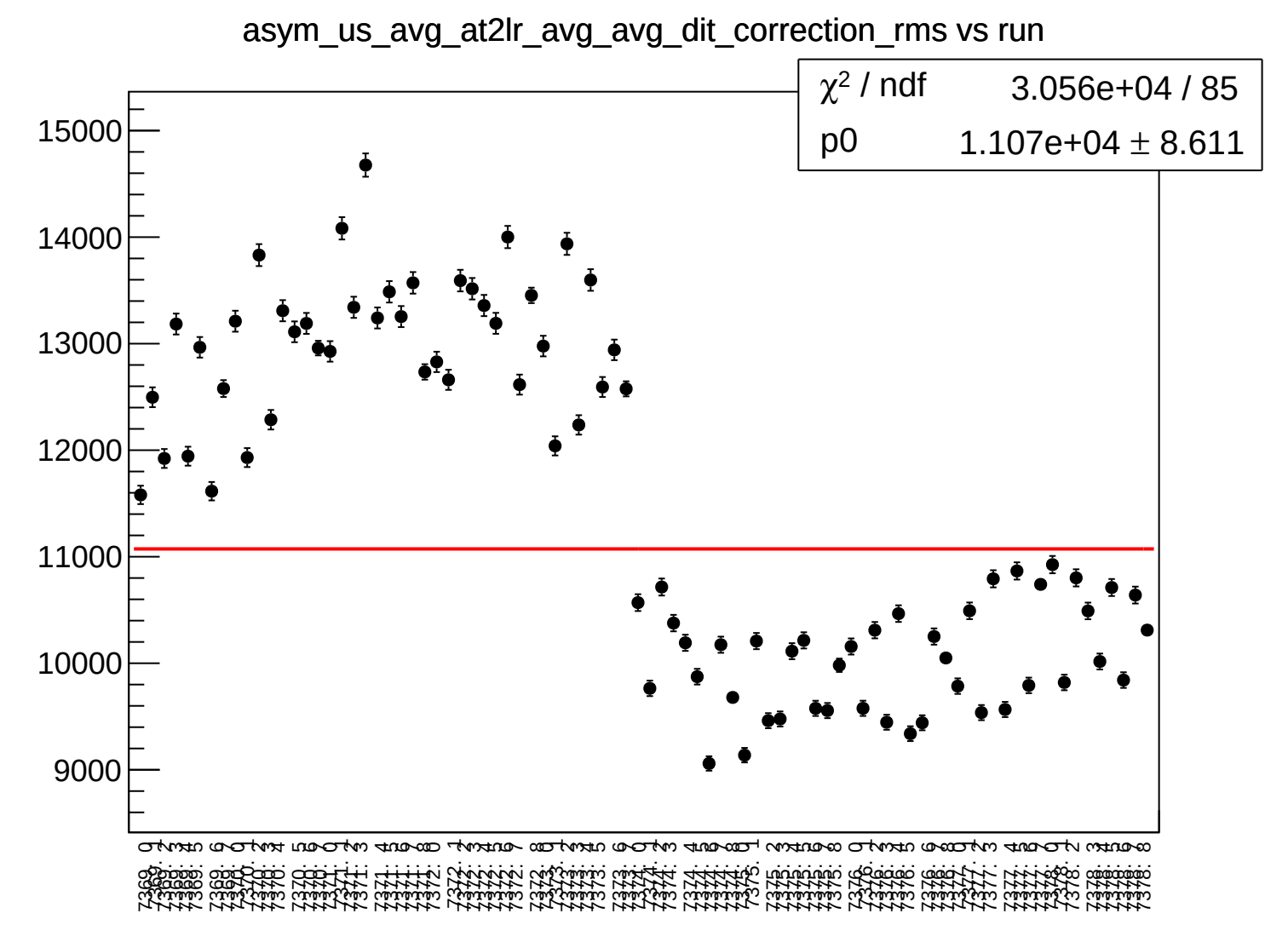

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.226e+04 / 85
p0 1.013e+04 ± 7.883
14000
13000
12000
11000
10000
9000
8000

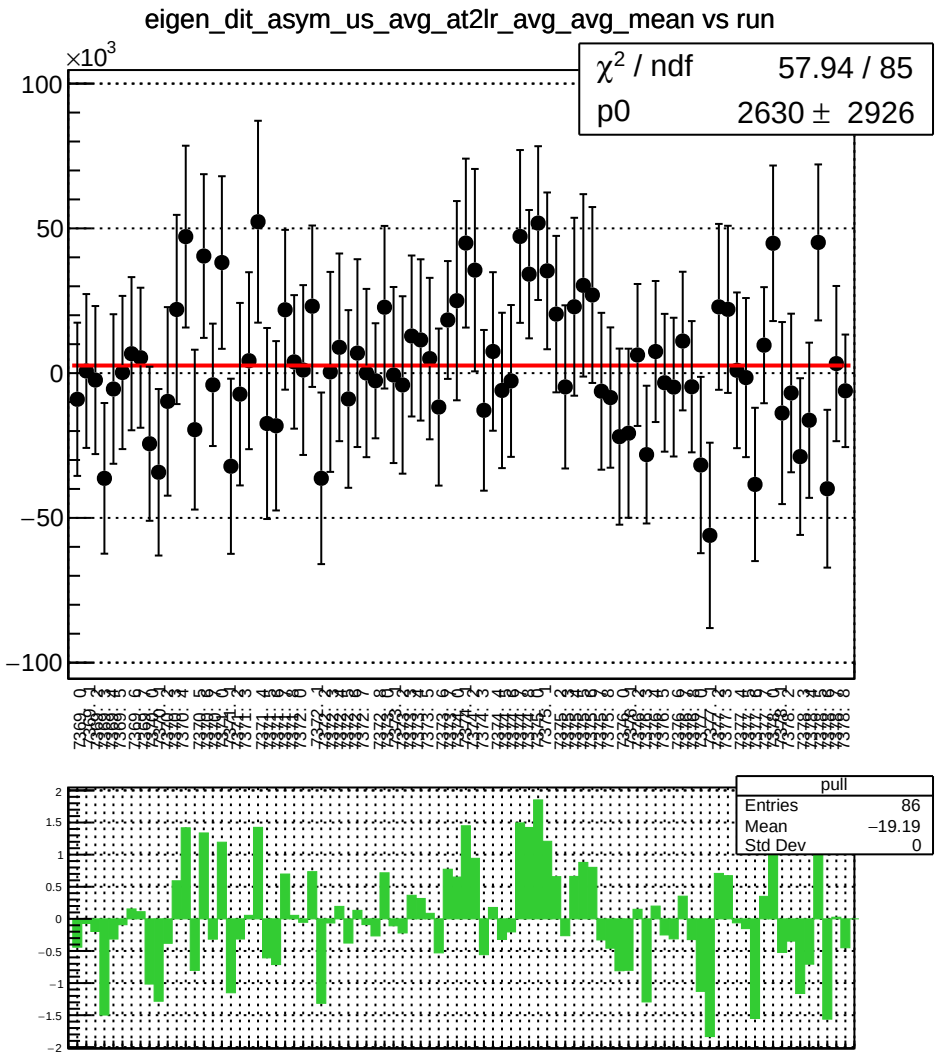

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 57.94 / 85
p0 2630 ± 2926
pull
Entries 86
Mean −19.19
Std Dev 0

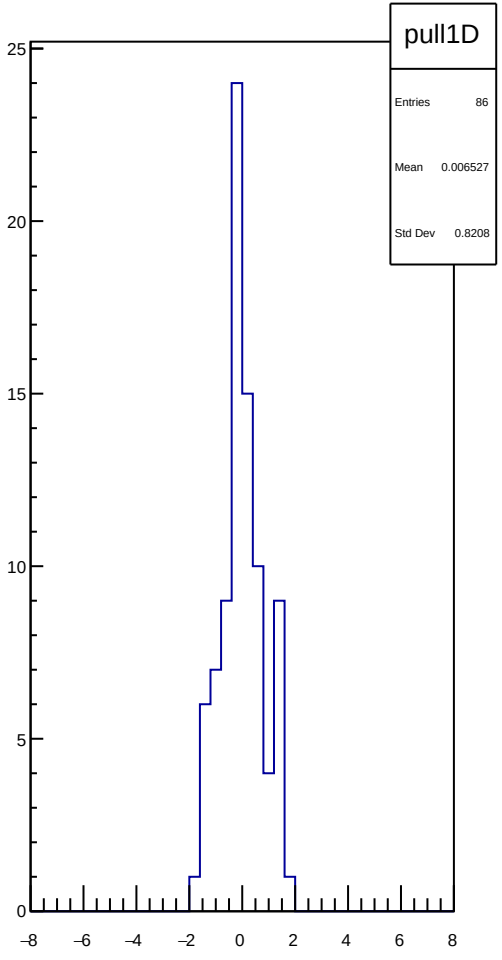

pull1D
Entries 86
Mean 0.006527
Std Dev 0.8208

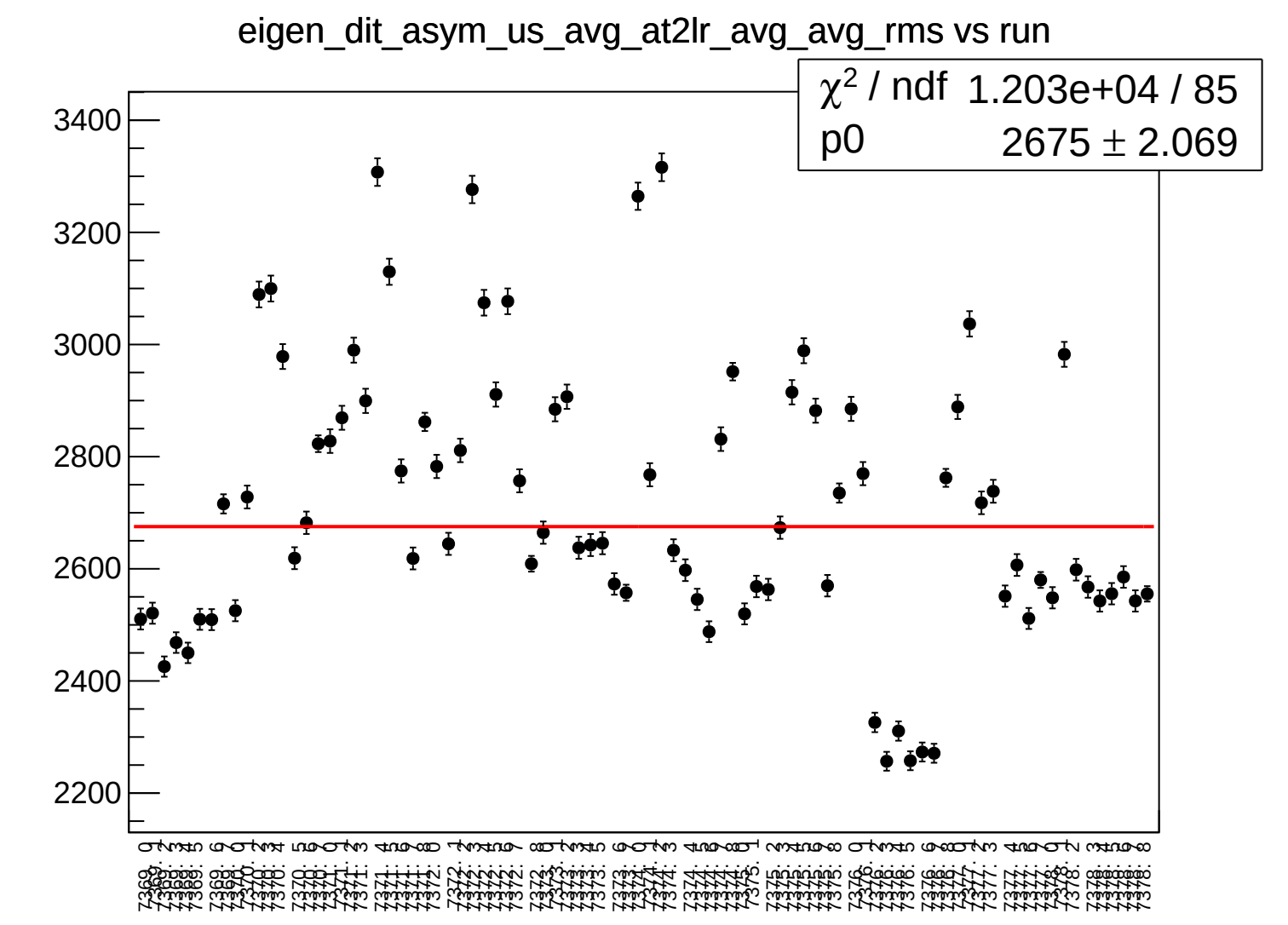

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.203e+04 / 85
p0 2675 ± 2.069
3400
3200
3000
2800
2600
2400
2200

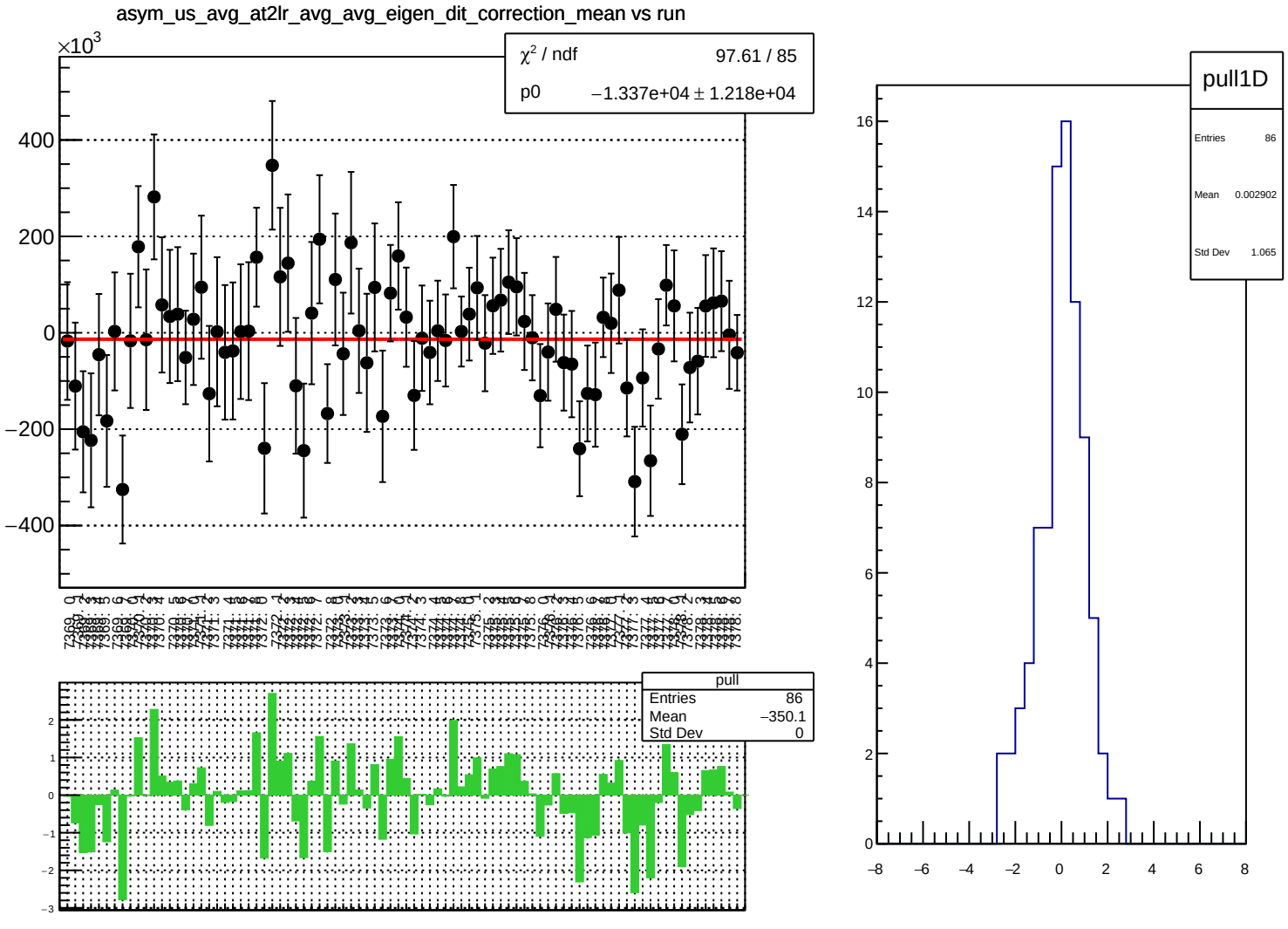

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.61 / 85
p0 −1.337e+04 ± 1.218e+04
400
200
0
−200
−400
pull
Entries 86
Mean −350.1
Std Dev 0
pull1D
Entries 86
Mean 0.002902
Std Dev 1.065

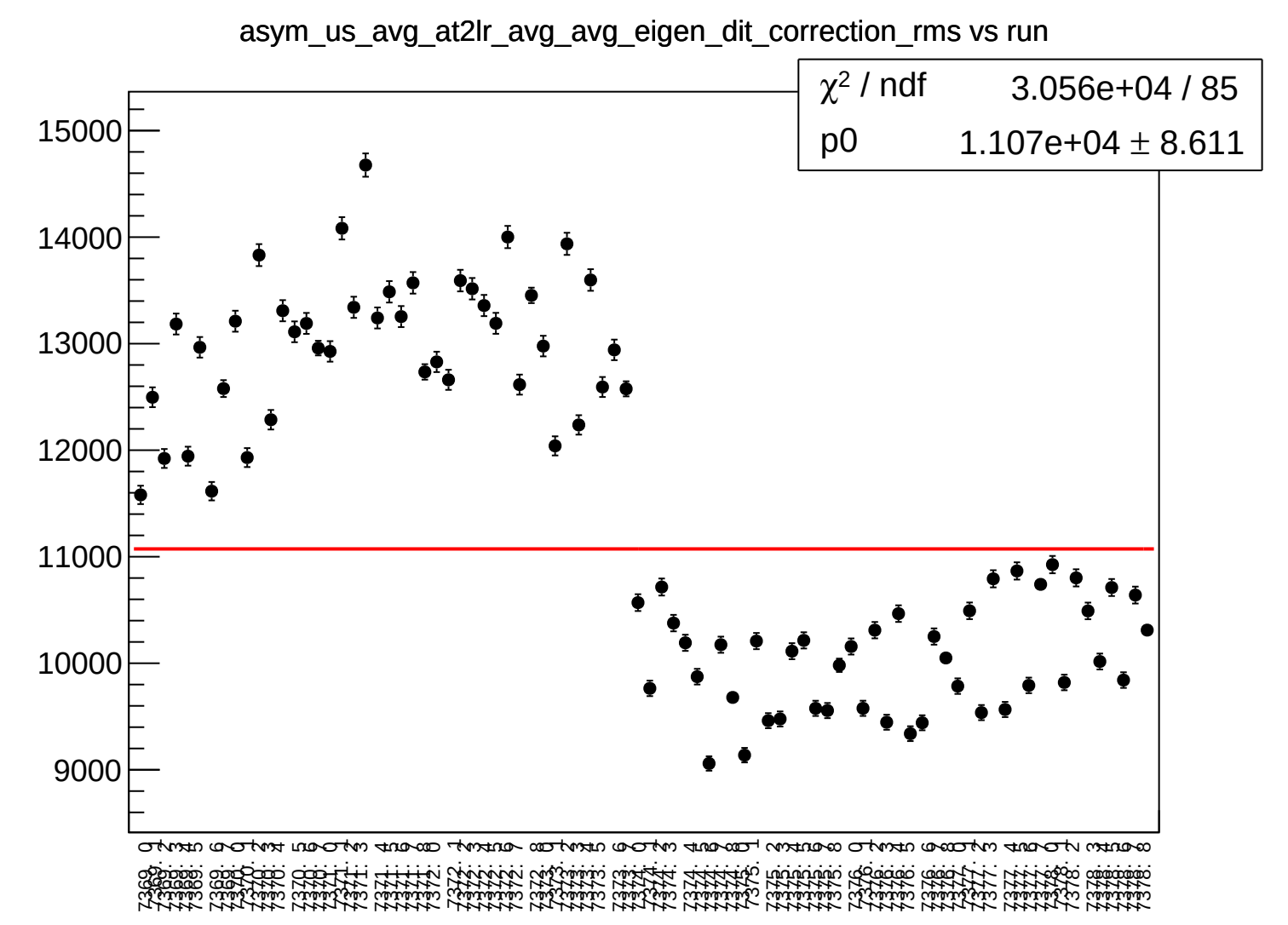

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.056e+04 / 85
p0 1.107e+04 ± 8.611
15000
14000
13000
12000
11000
10000
9000

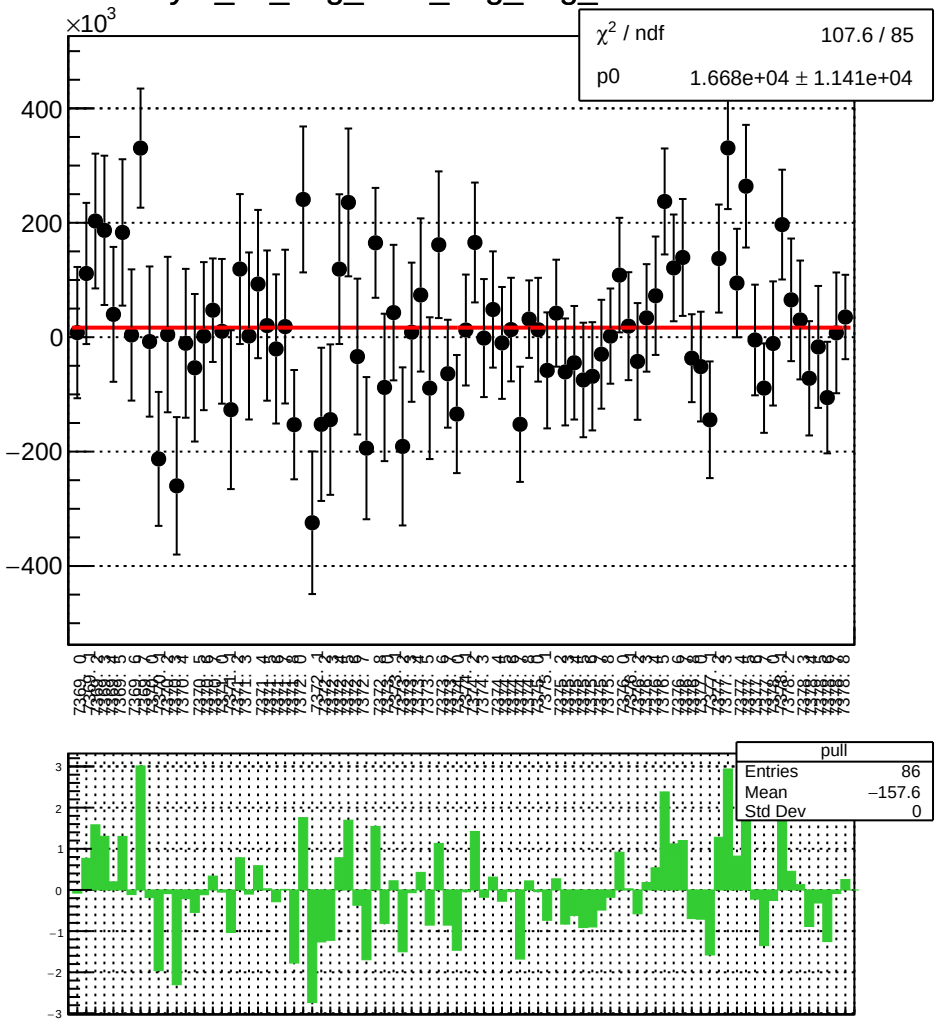

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 57.94 / 85
p0 2630 ± 2926
pull
Entries 86
Mean −19.19
Std Dev 0

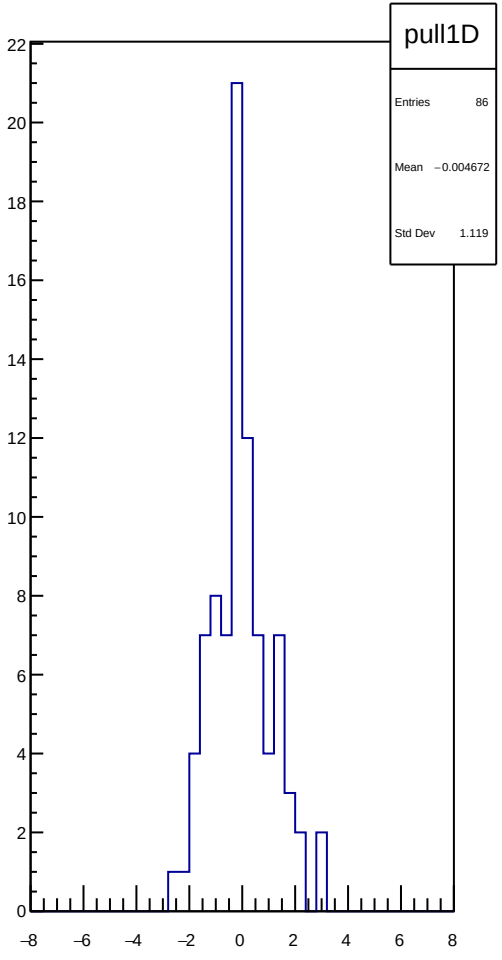

pull1D
Entries 86
Mean 0.006527
Std Dev 0.8208

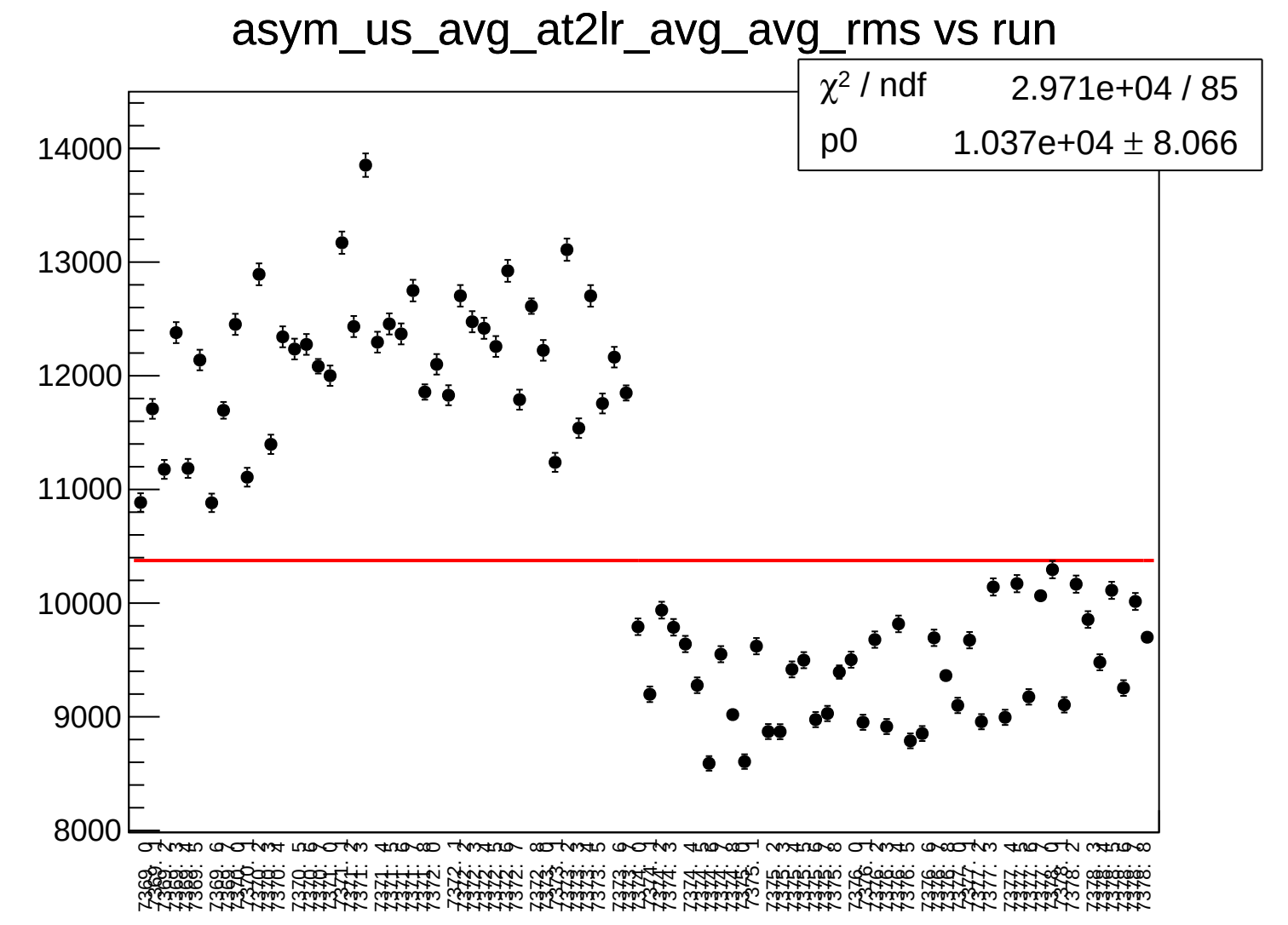

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.203e+04 / 85
p0 2675 ± 2.069
3400
3200
3000
2800
2600
2400
2200

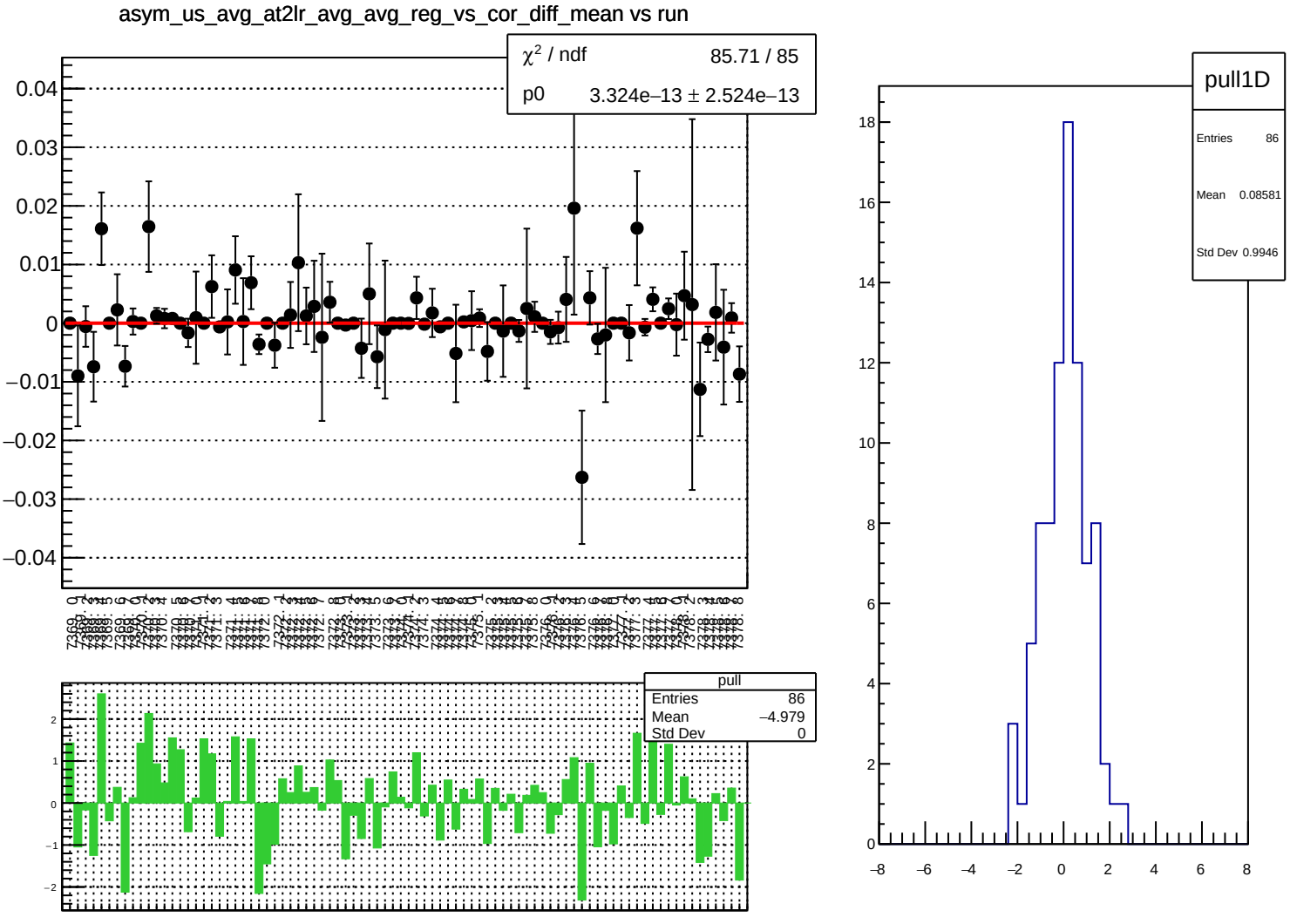

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.61 / 85
p0 −1.337e+04 ± 1.218e+04
400
200
0
−200
−400
pull
Entries 86
Mean −350.1
Std Dev 0
pull1D
Entries 86
Mean 0.002902
Std Dev 1.065

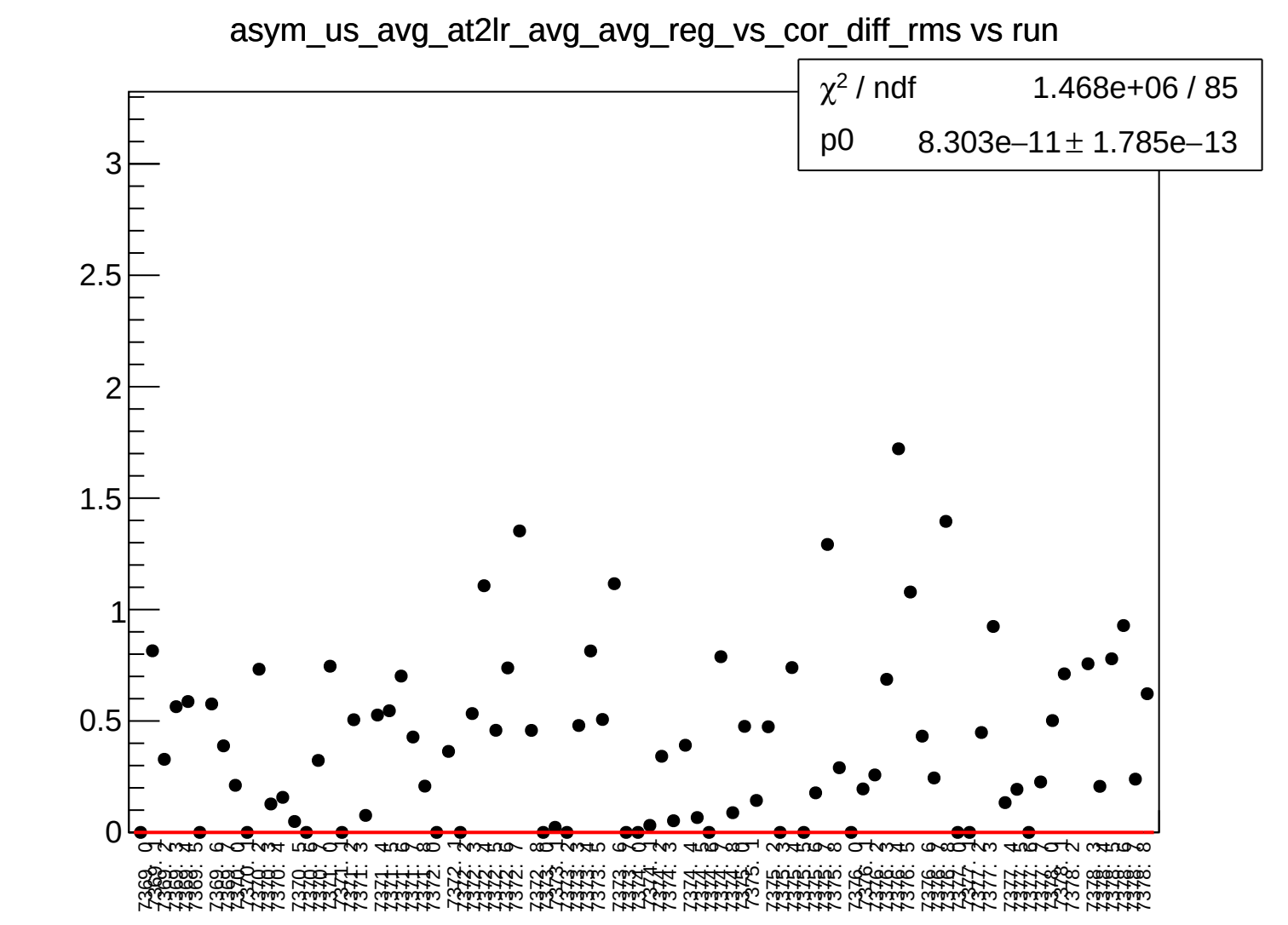

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.056e+04 / 85
p0 1.107e+04 ± 8.611
15000
14000
13000
12000
11000
10000
9000

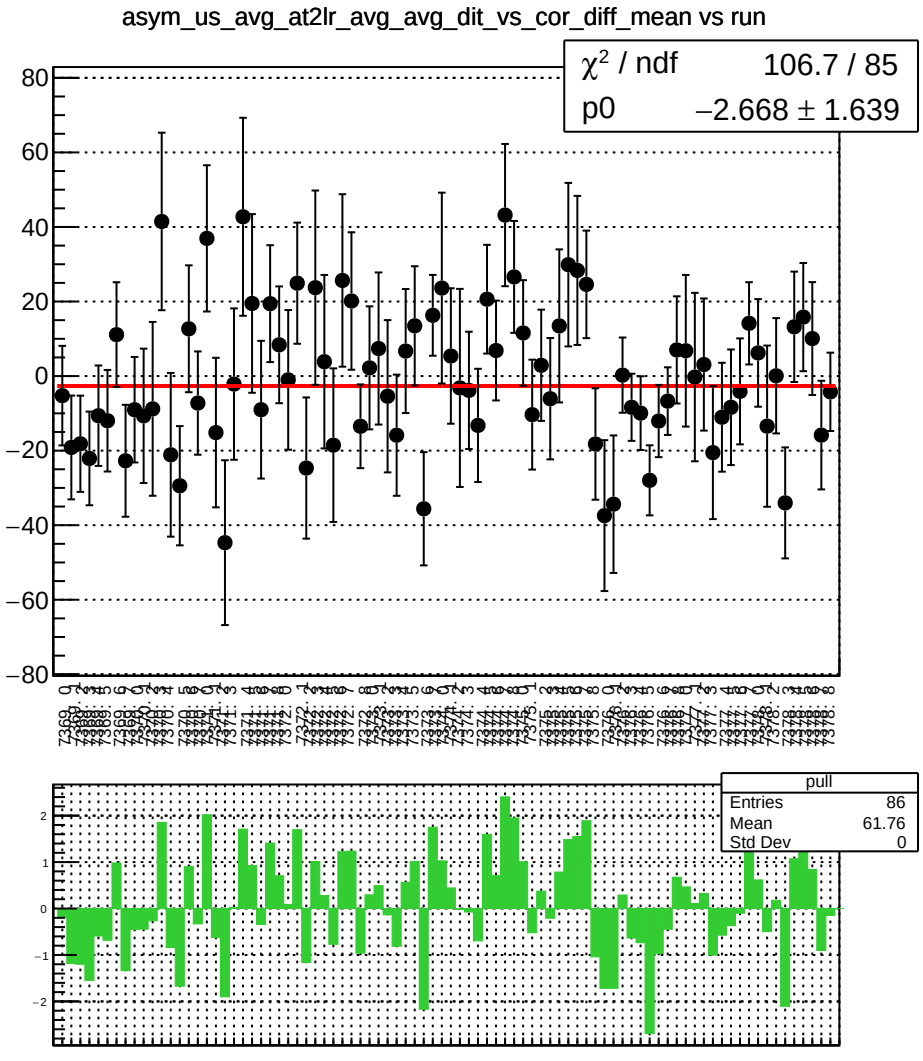

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 107.6 / 85
p0 1.668e+04 ± 1.141e+04
400
200
0
−200
−400
pull
Entries 86
Mean −157.6
Std Dev 0
3
2
1
0
−1
−2
−3

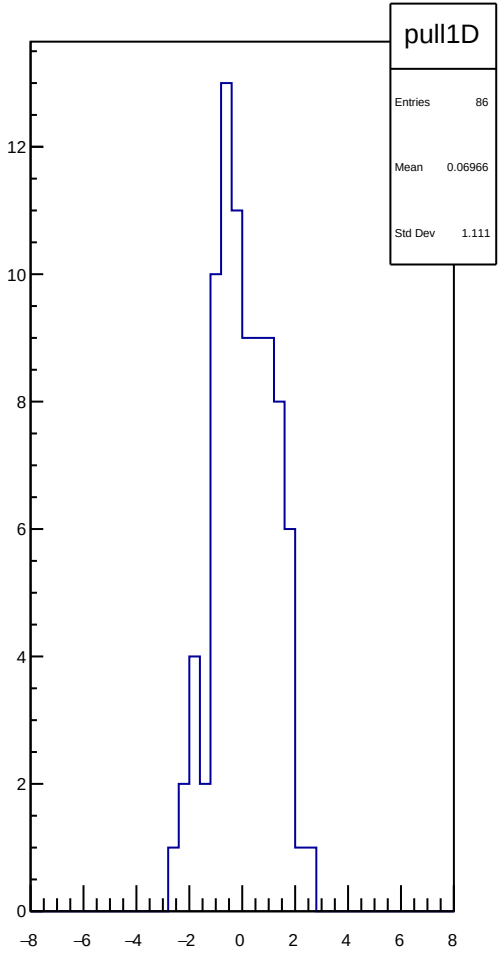

pull1D
Entries 86
Mean −0.004672
Std Dev 1.119
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

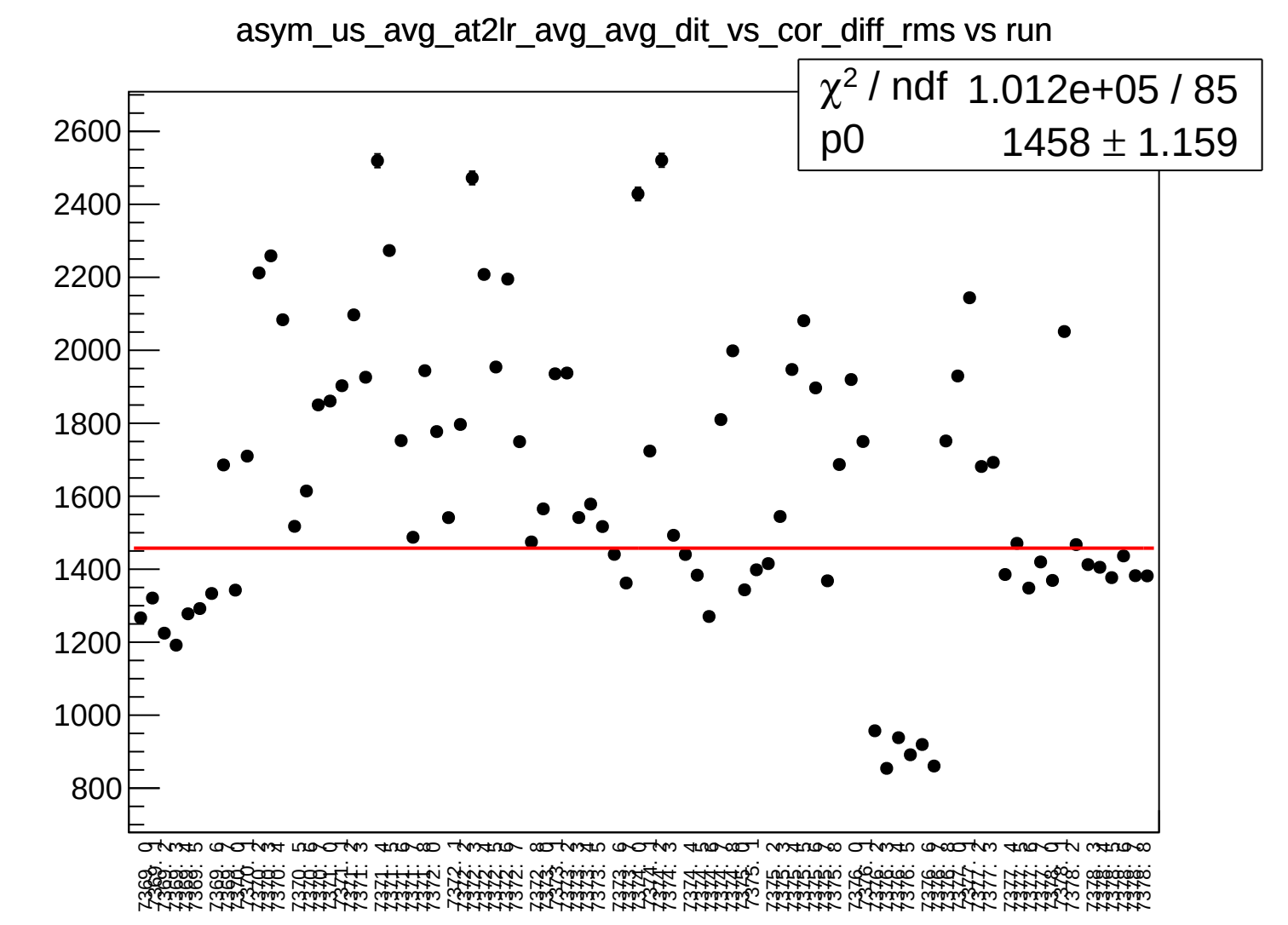

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2.971e+04 / 85
p0 1.037e+04 ± 8.066
14000
13000
12000
11000
10000
9000
8000

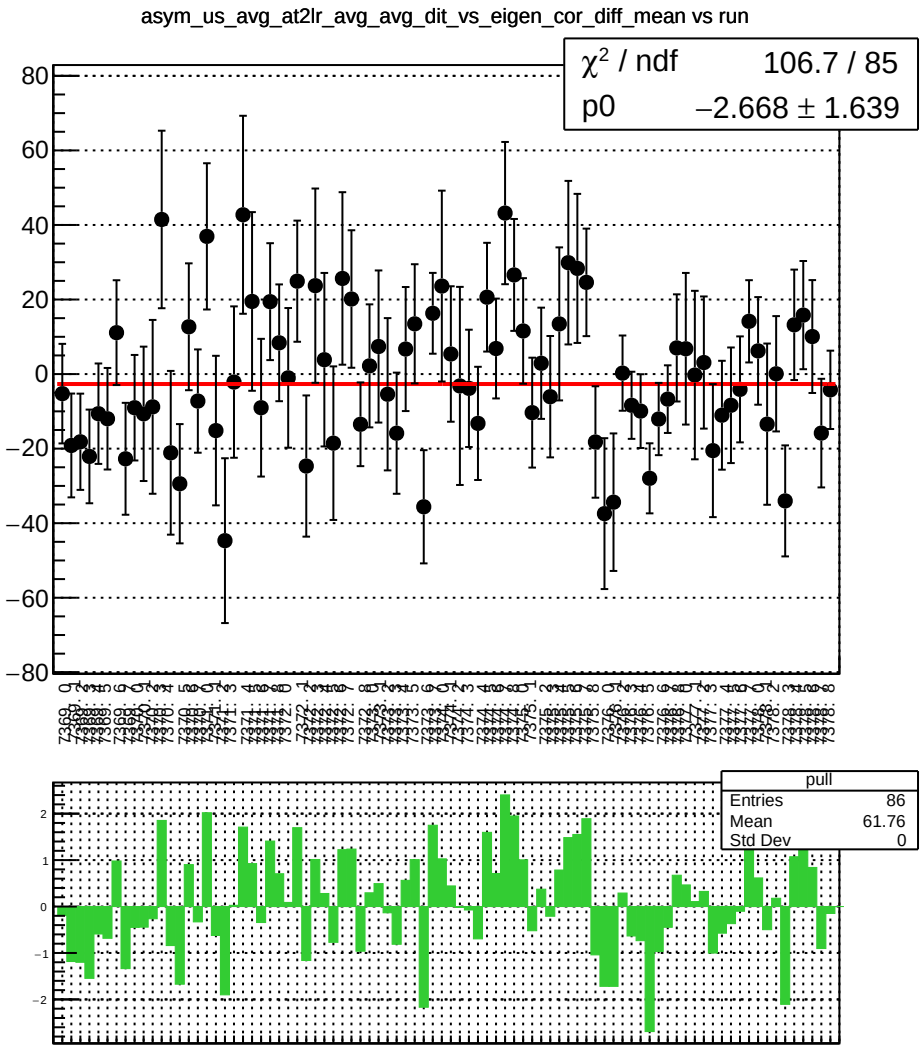

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.71 / 85
p0 3.324e−13 ± 2.524e−13
pull
Entries 86
Mean −4.979
Std Dev 0
pull1D
Entries 86
Mean 0.08581
Std Dev 0.9946

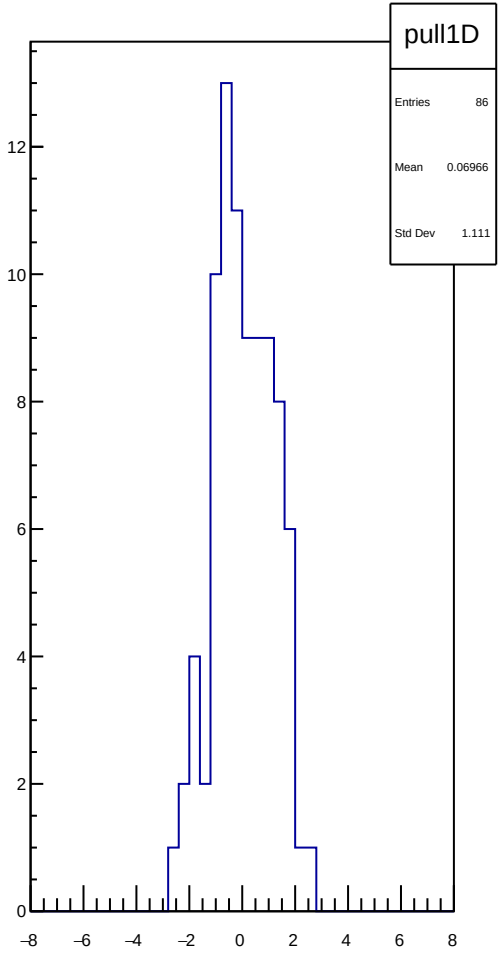

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.468e+06 / 85
p0 8.303e−11 ± 1.785e−13
3
2.5
2
1.5
1
0.5
0

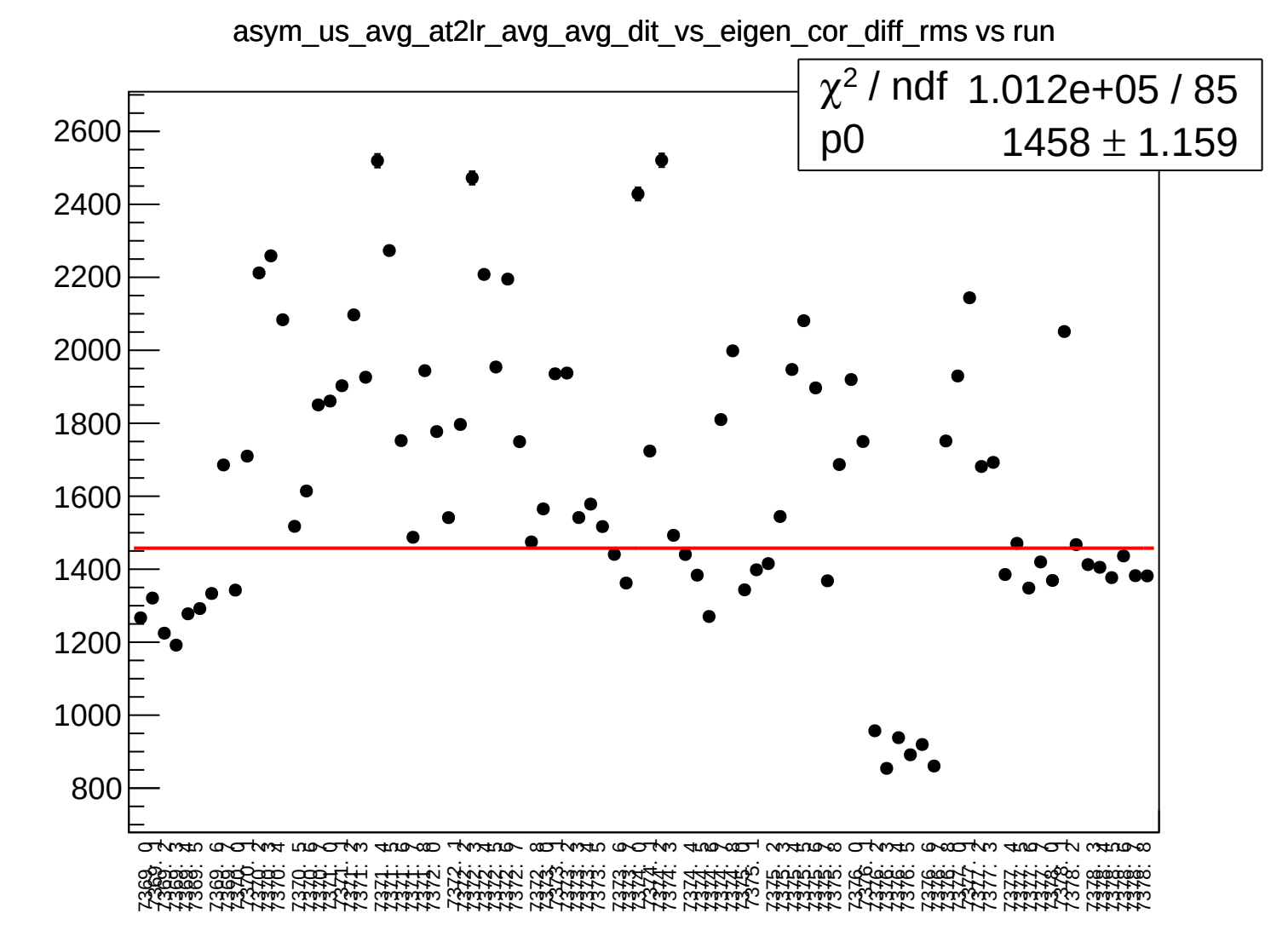

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 85
p0 −2.668 ± 1.639
pull
Entries 86
Mean 61.76
Std Dev 0

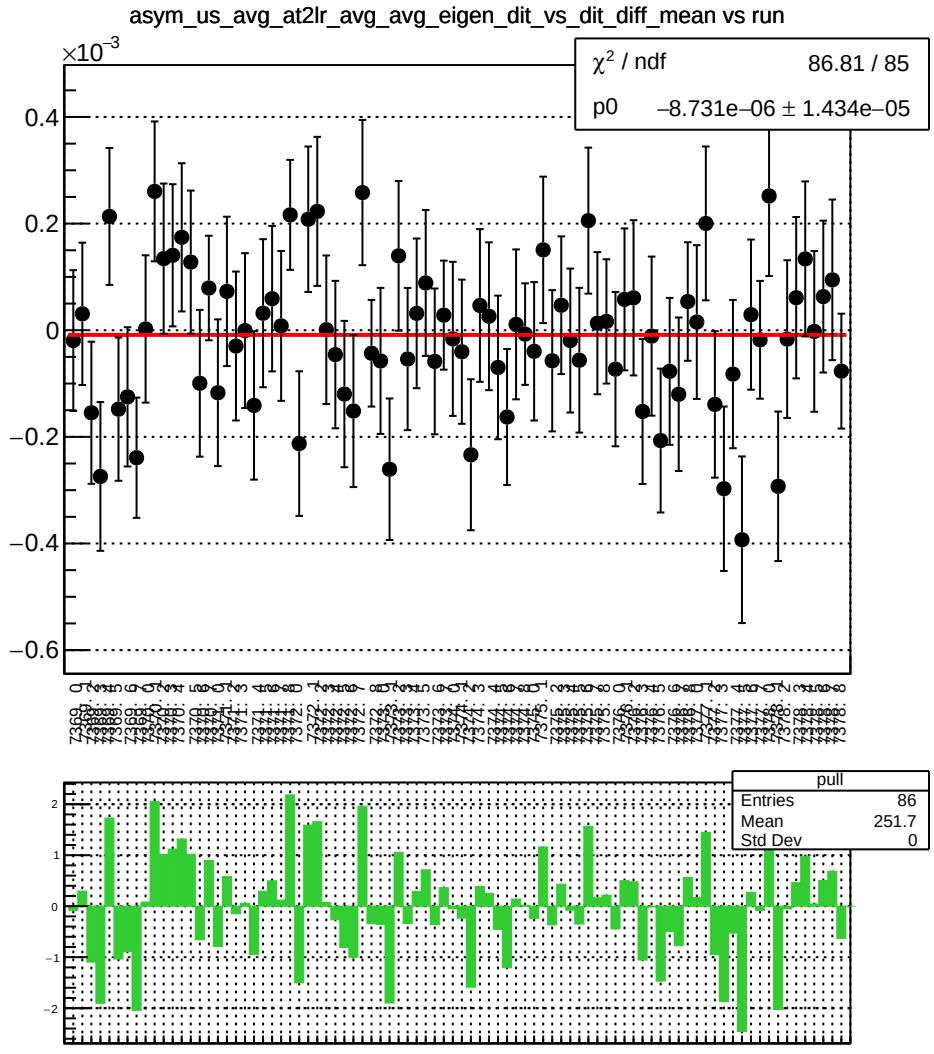

pull1D
Entries 86
Mean 0.06966
Std Dev 1.111

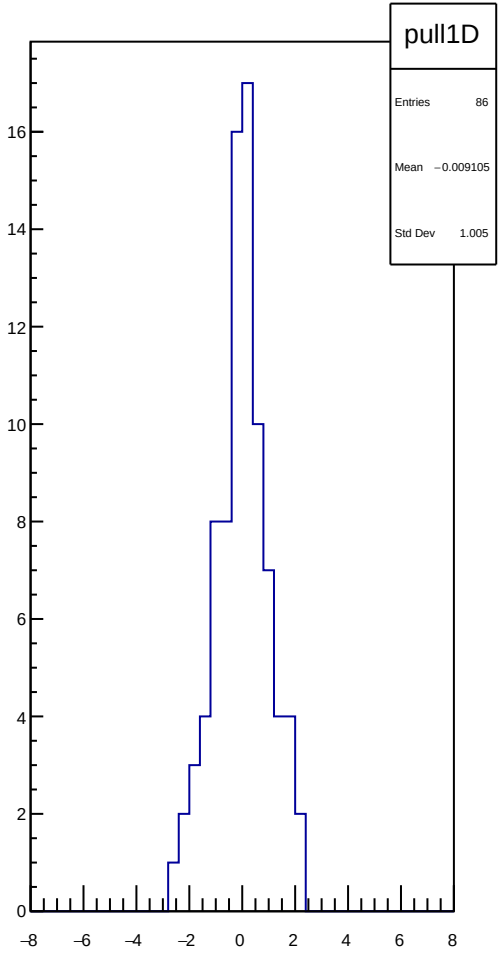

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 85
p0 1458 ± 1.159
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

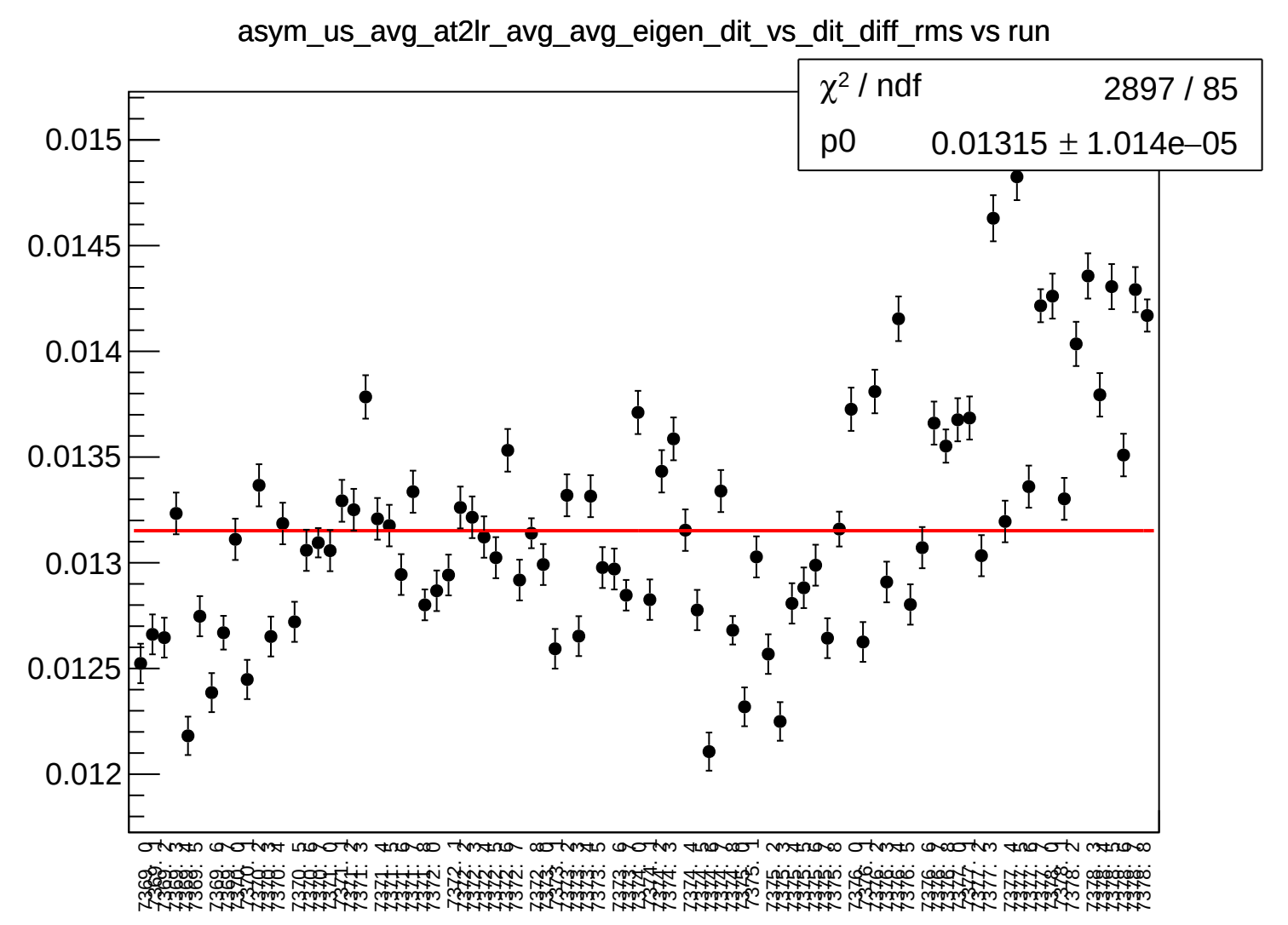

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.7 / 85
p0 −2.668 ± 1.639
pull
Entries 86
Mean 61.76
Std Dev 0

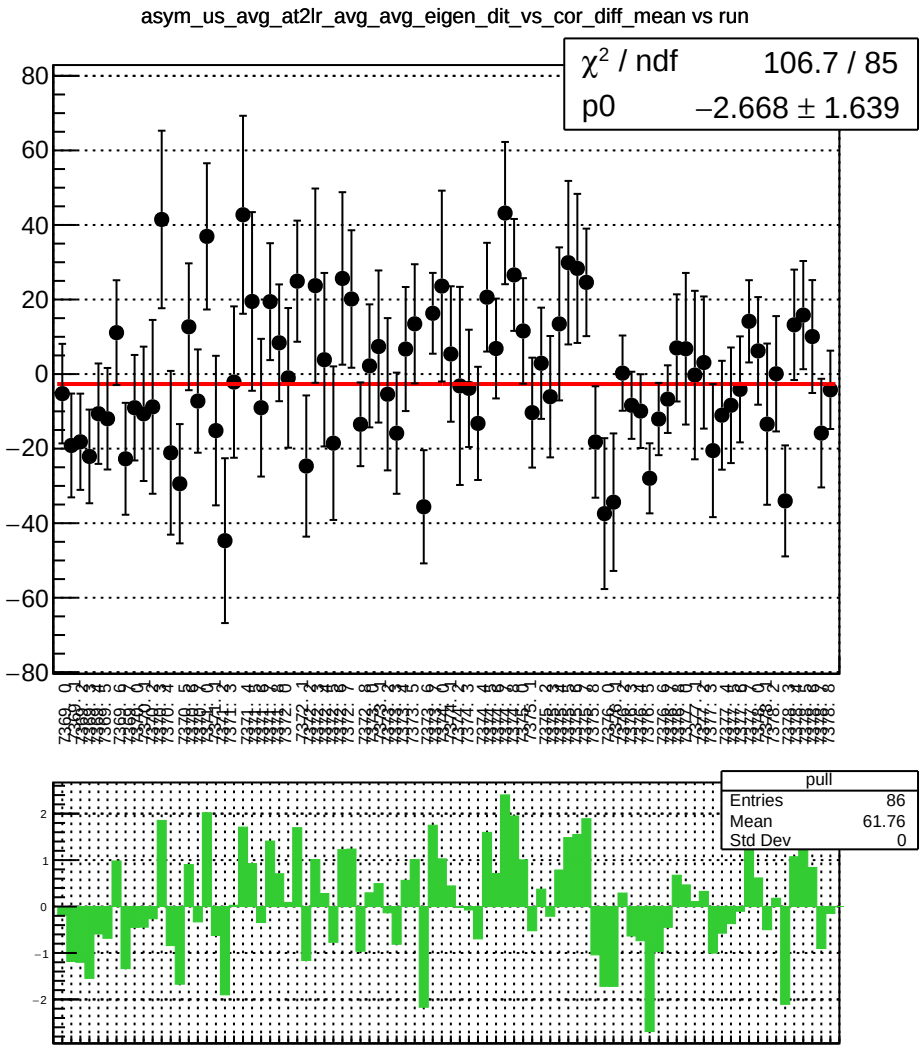

pull1D
Entries 86
Mean 0.06966
Std Dev 1.111

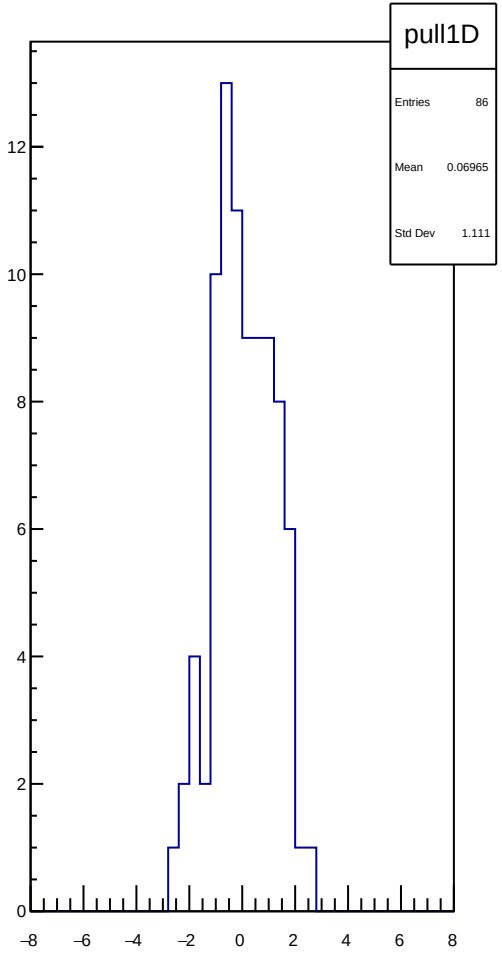

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 85
p0 1458 ± 1.159
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

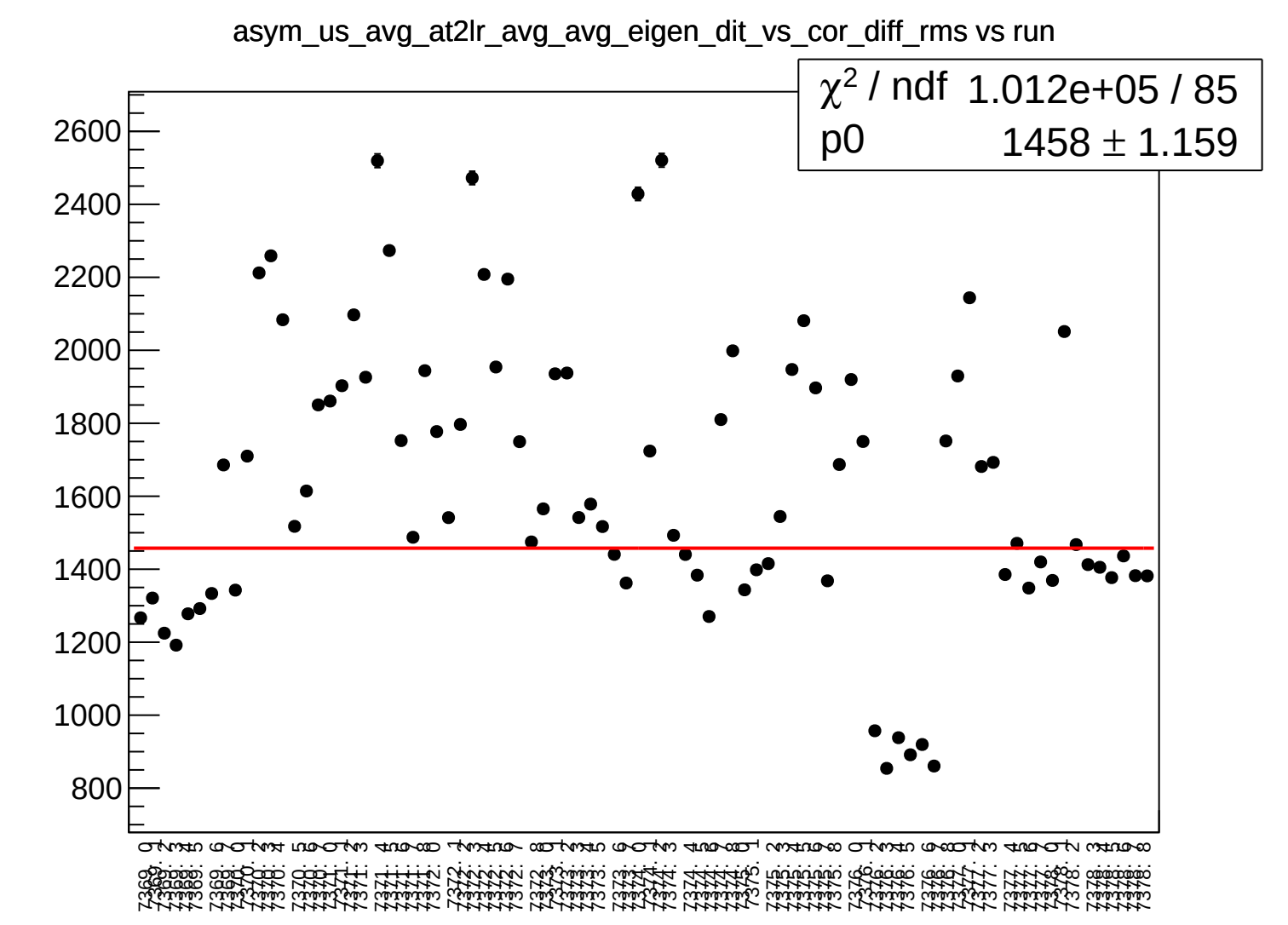

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.81 / 85
p0 −8.731e−06 ± 1.434e−05
pull
Entries 86
Mean 251.7
Std Dev 0

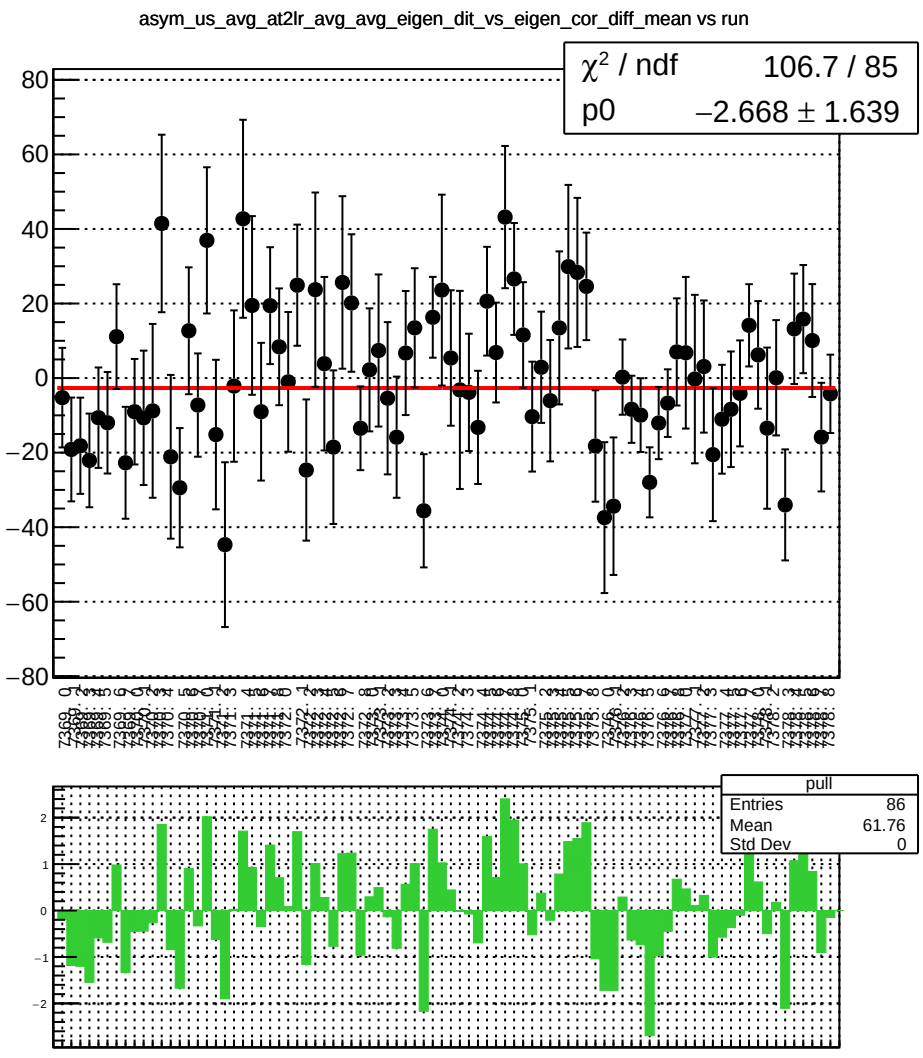

pull1D
Entries 86
Mean −0.009105
Std Dev 1.005

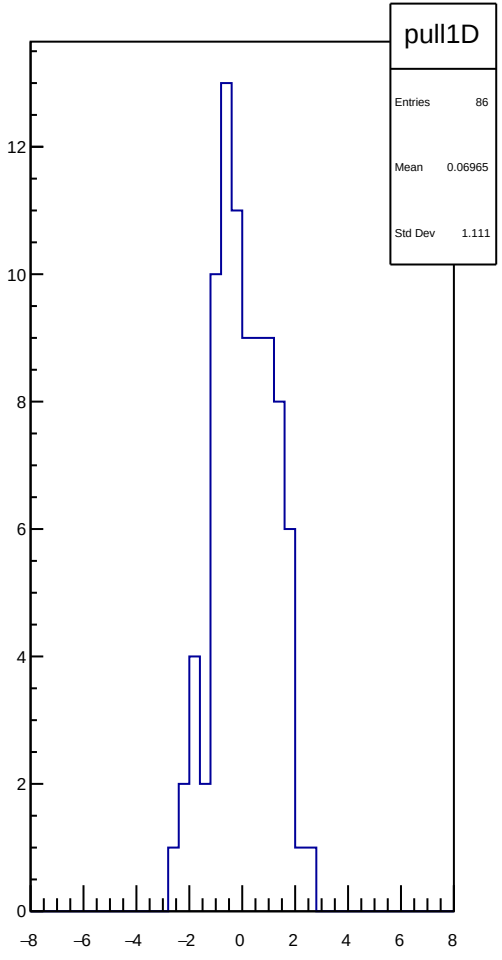

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2897 / 85
p0 0.01315 ± 1.014e−05
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012

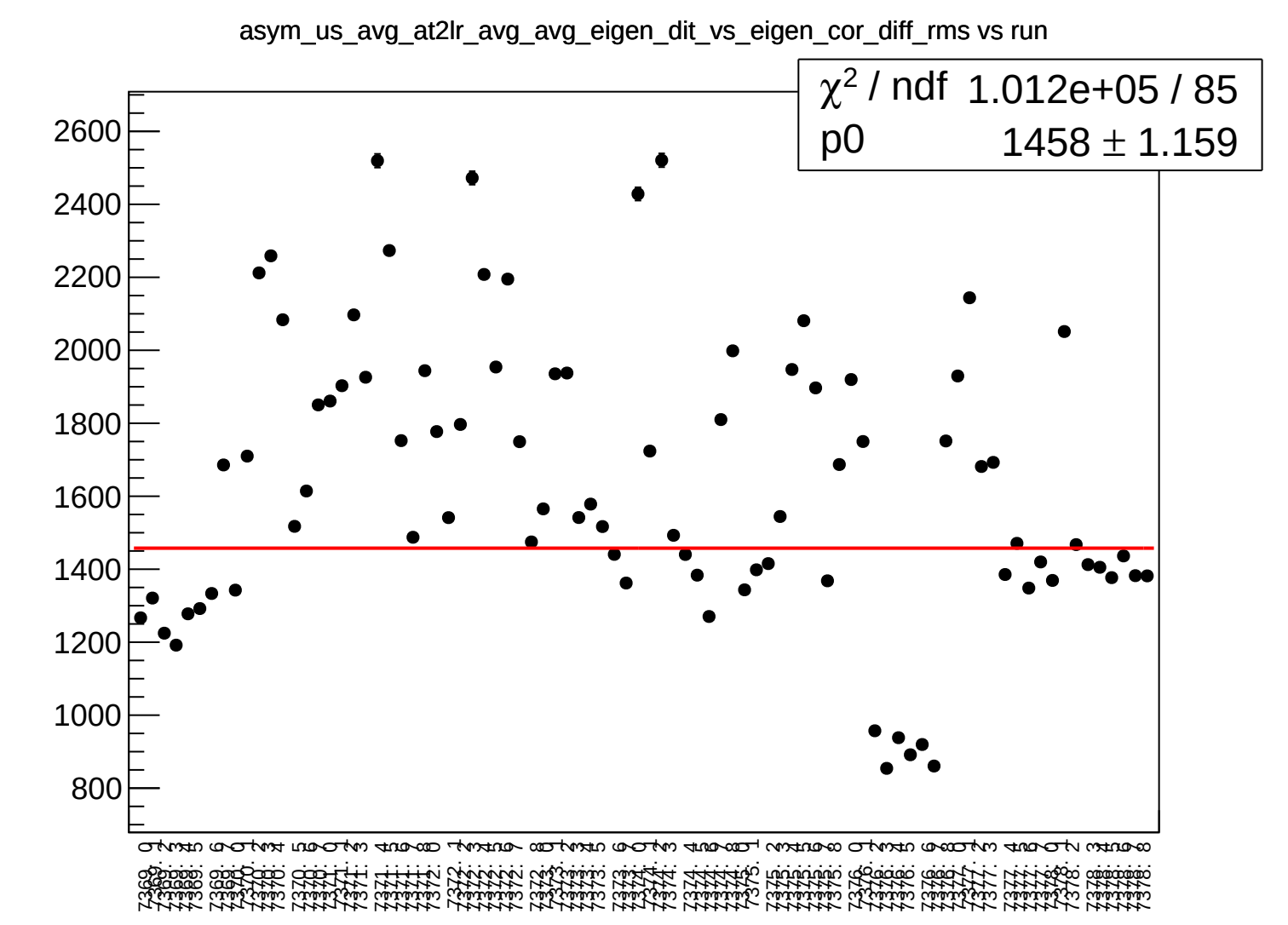

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 85
p0 −2.668 ± 1.639
pull
Entries 86
Mean 61.76
Std Dev 0

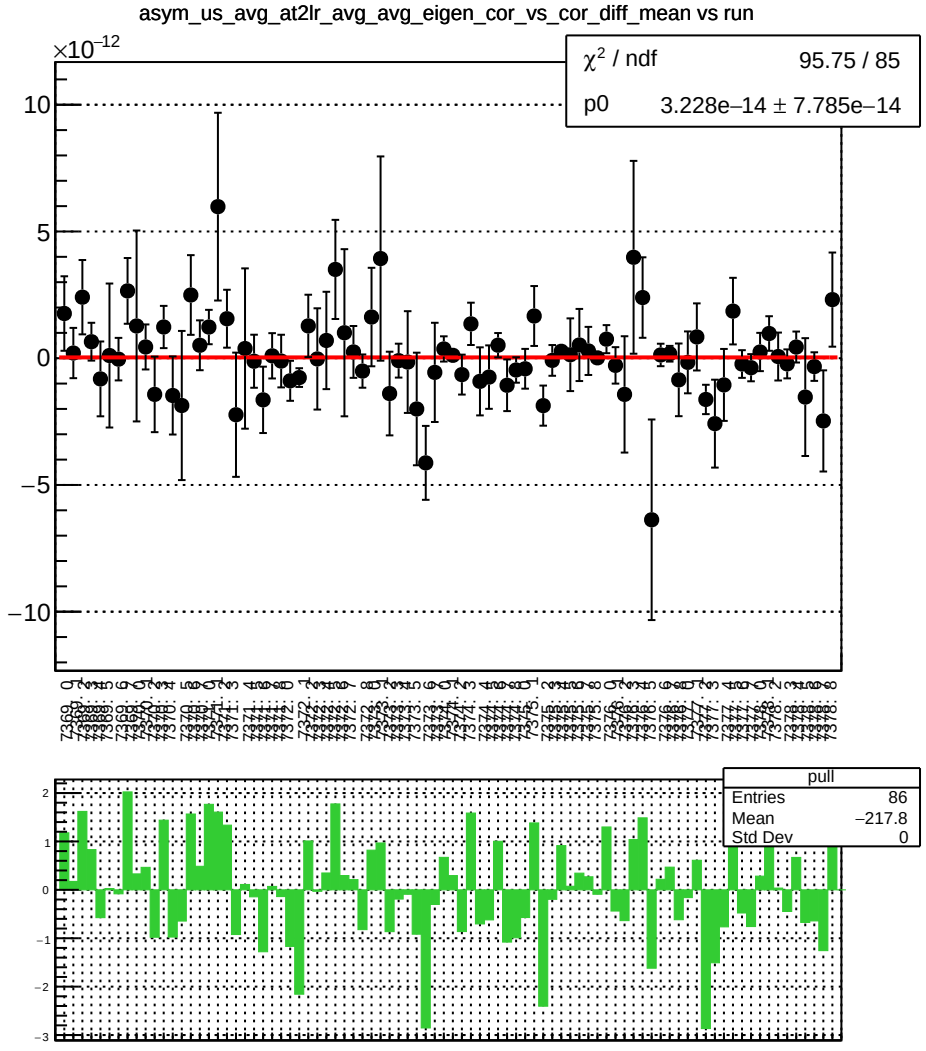

pull1D
Entries 86
Mean 0.06965
Std Dev 1.111

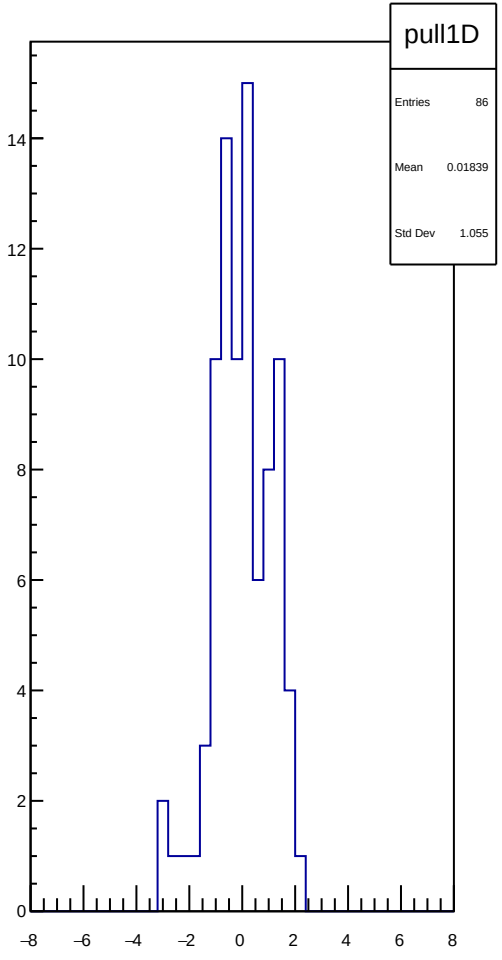

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 85
p0 1458 ± 1.159
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

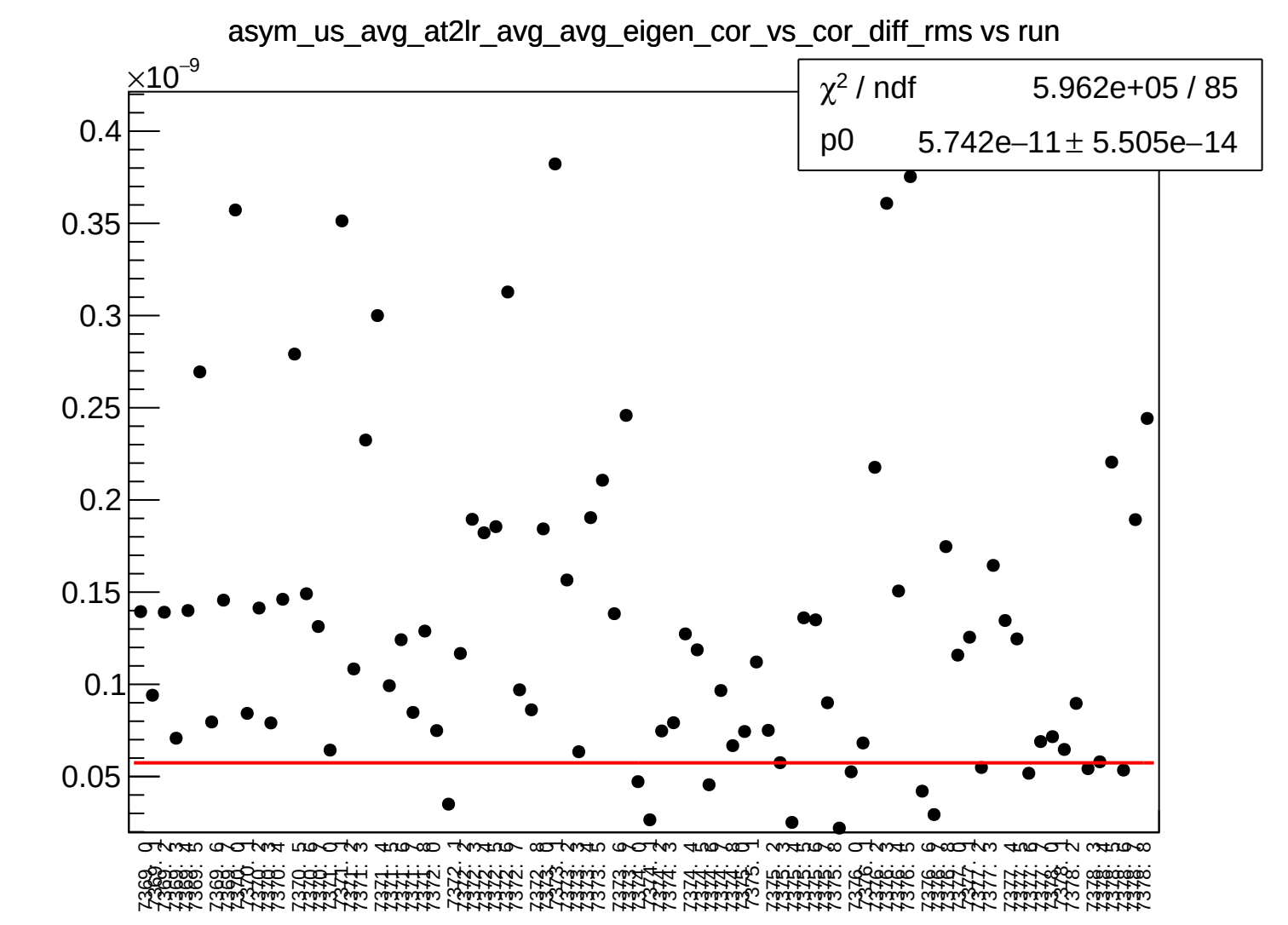

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.7 / 85
p0 −2.668 ± 1.639
pull
Entries 86
Mean 61.76
Std Dev 0

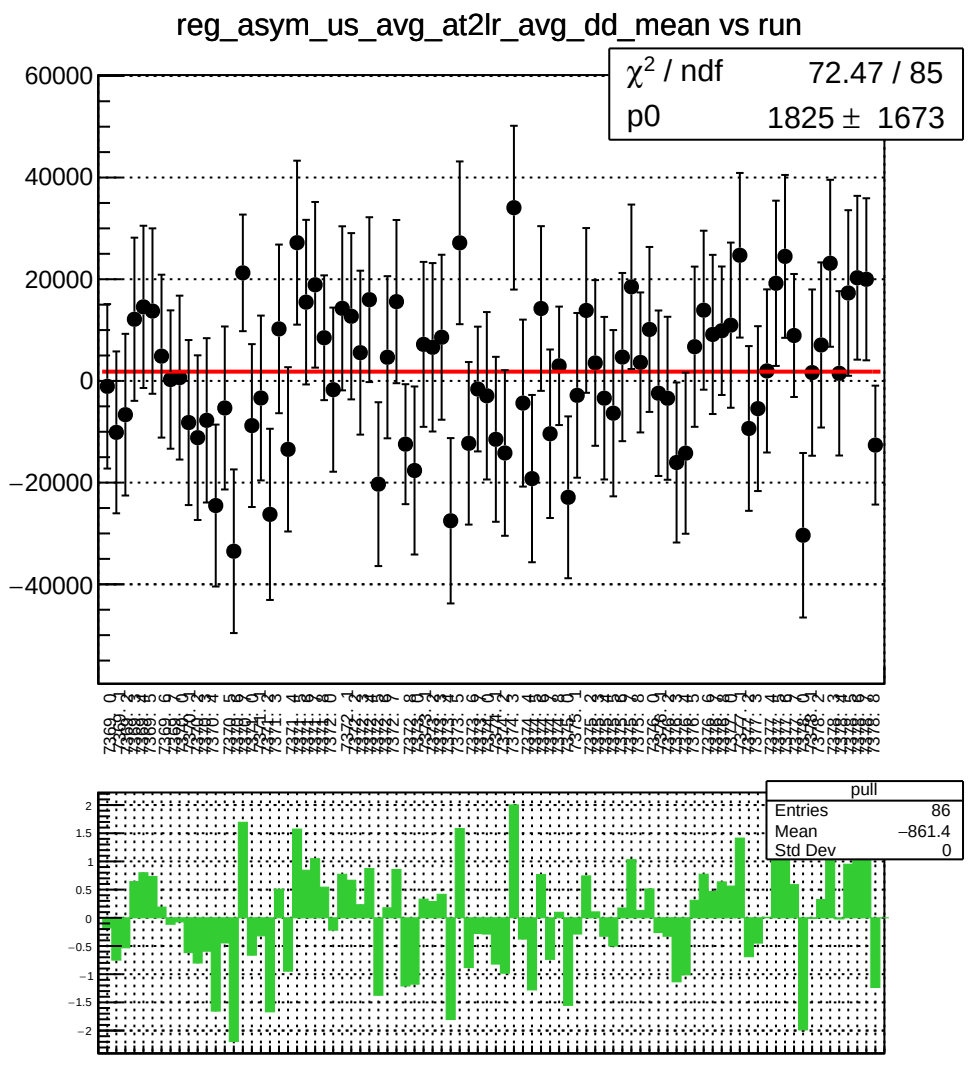

pull1D
Entries 86
Mean 0.06965
Std Dev 1.111

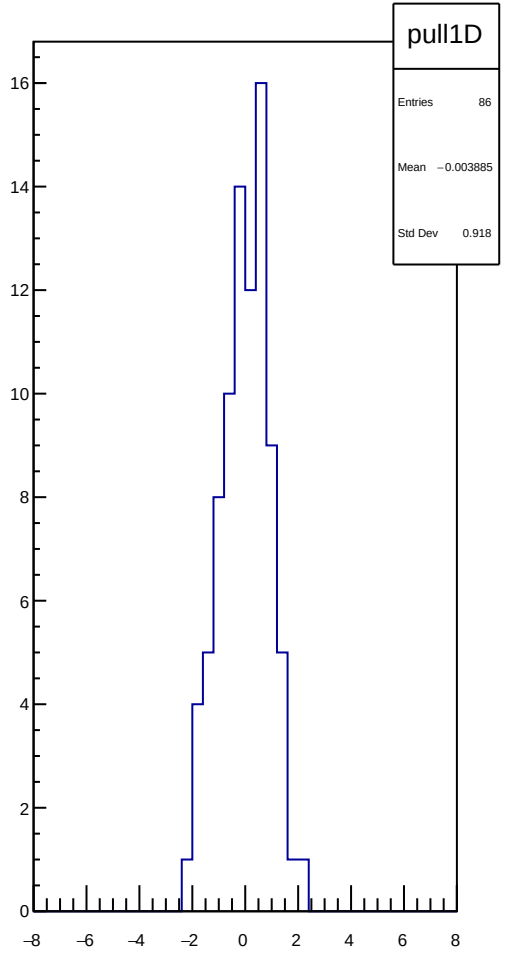

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 85
p0 1458 ± 1.159
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

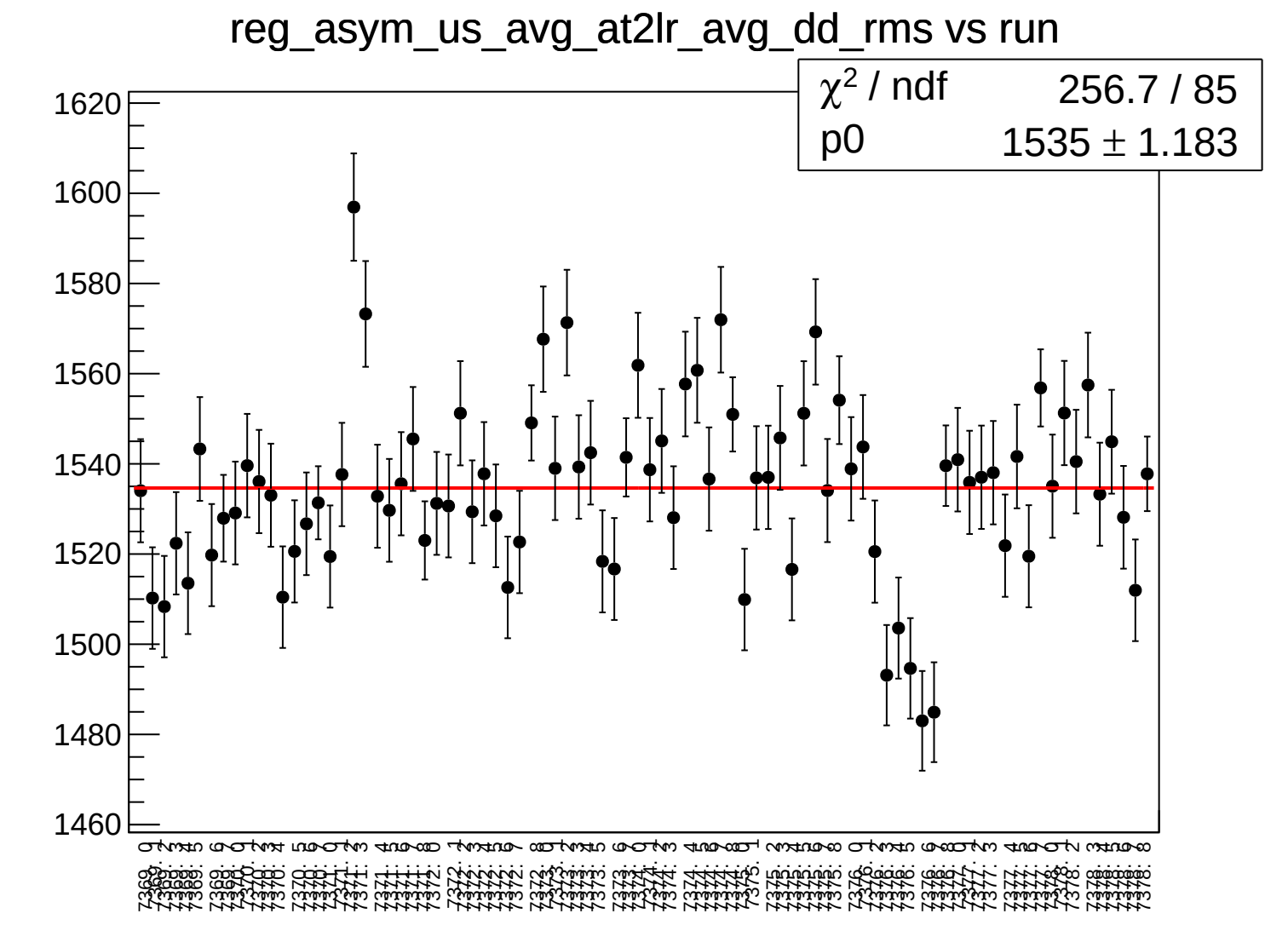

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.75 / 85
p0 3.228e−14 ± 7.785e−14
pull
Entries 86
Mean −217.8
Std Dev 0

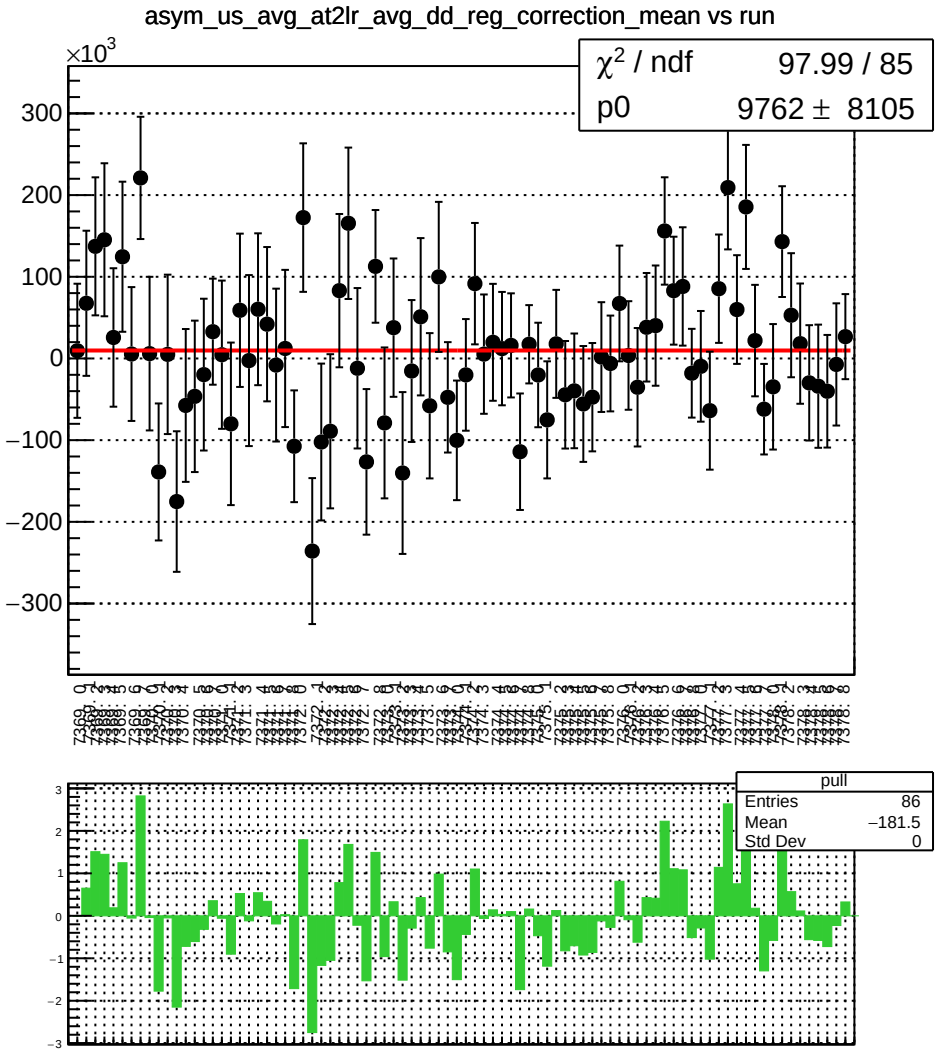

pull1D
Entries 86
Mean 0.01839
Std Dev 1.055

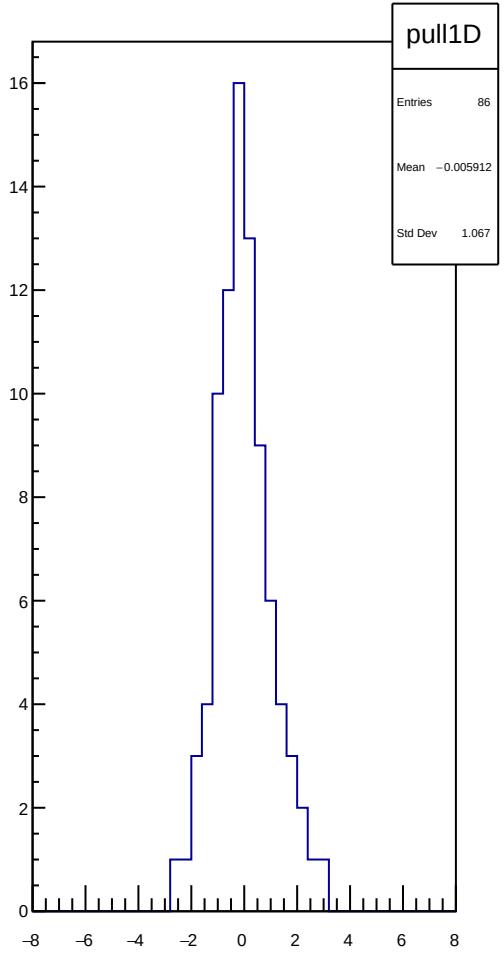

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.962e+05 / 85
p0 5.742e−11 ± 5.505e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

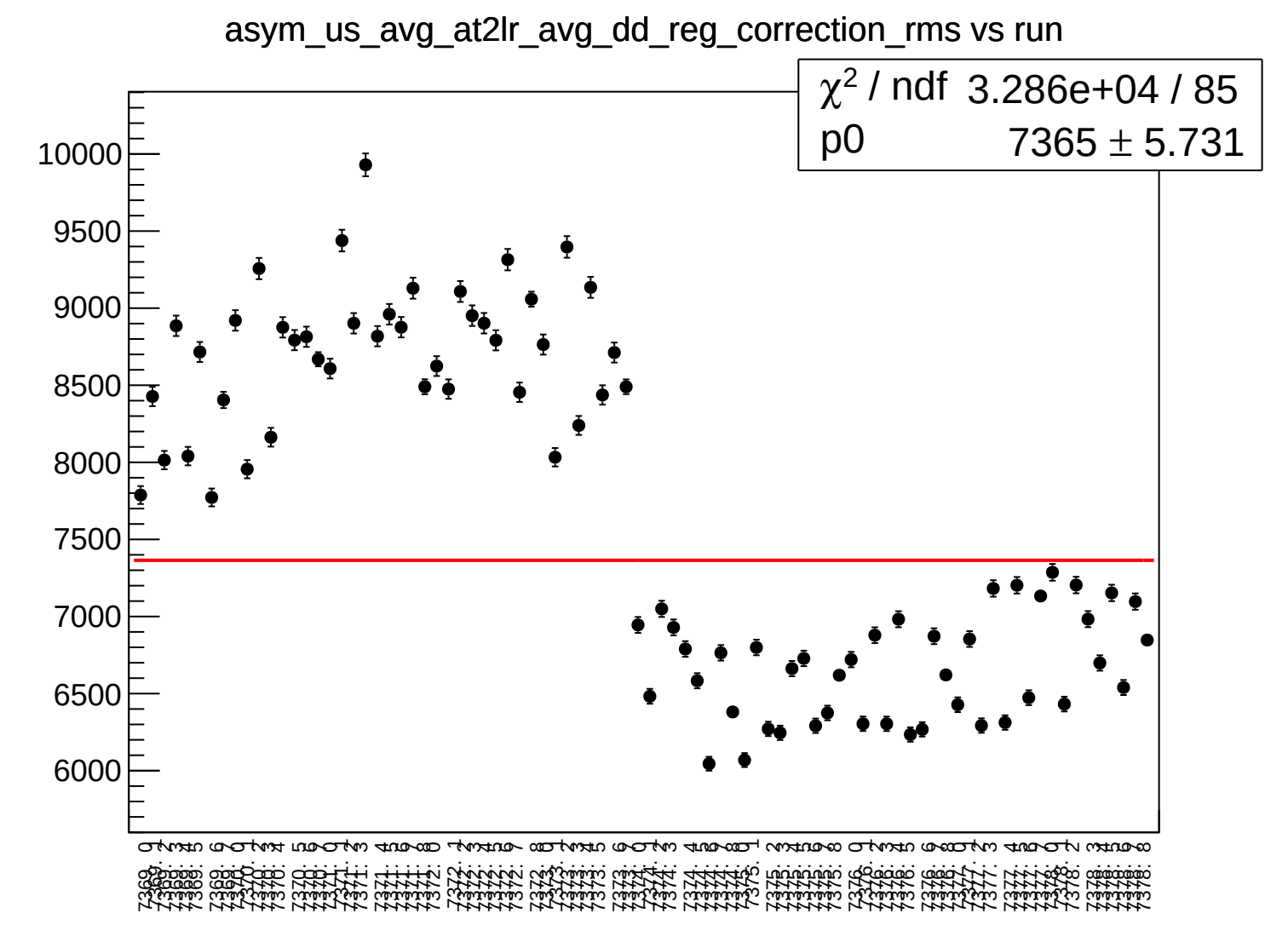

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 72.47 / 85
p0 1825 ± 1673
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −861.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

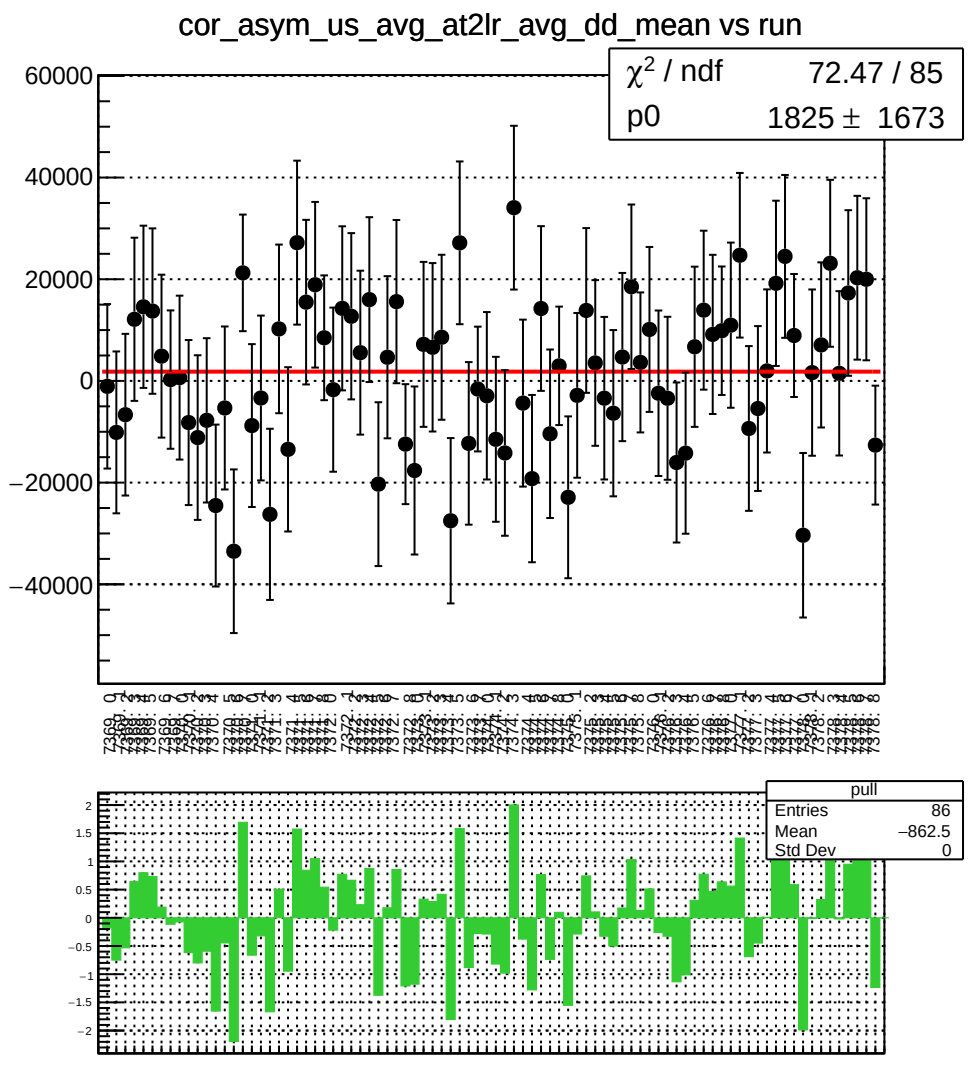

pull1D
Entries 86
Mean −0.003885
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

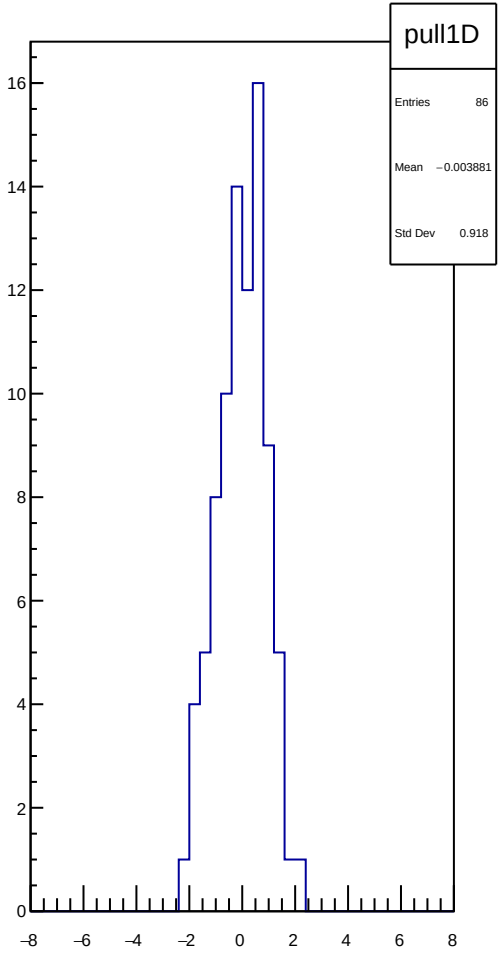

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 256.7 / 85
p0 1535 ± 1.183
1620
1600
1580
1560
1540
1520
1500
1480
1460

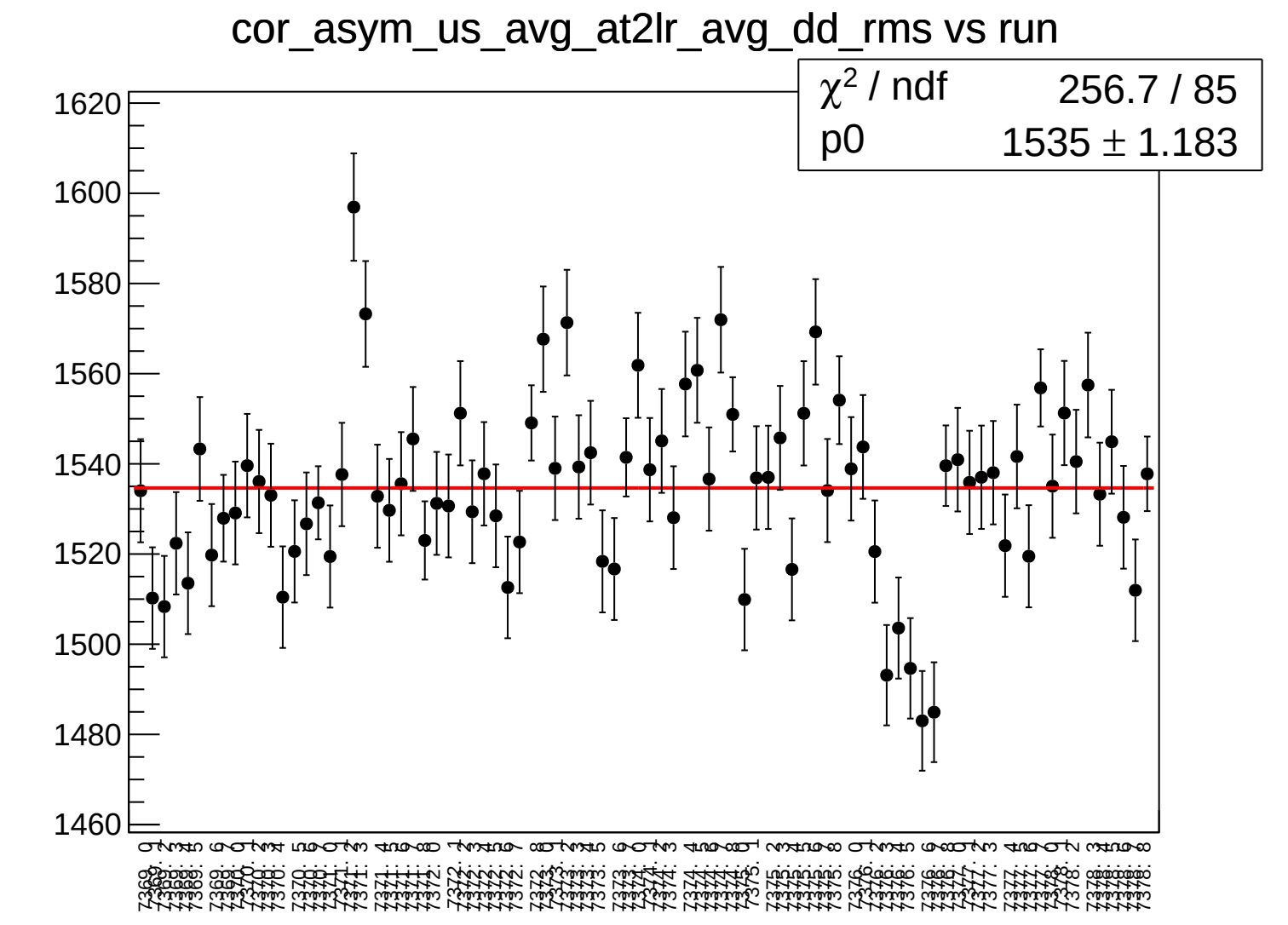

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.99 / 85
p0 9762 ± 8105
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −181.5
Std Dev 0
3
2
1
0
−1
−2
−3

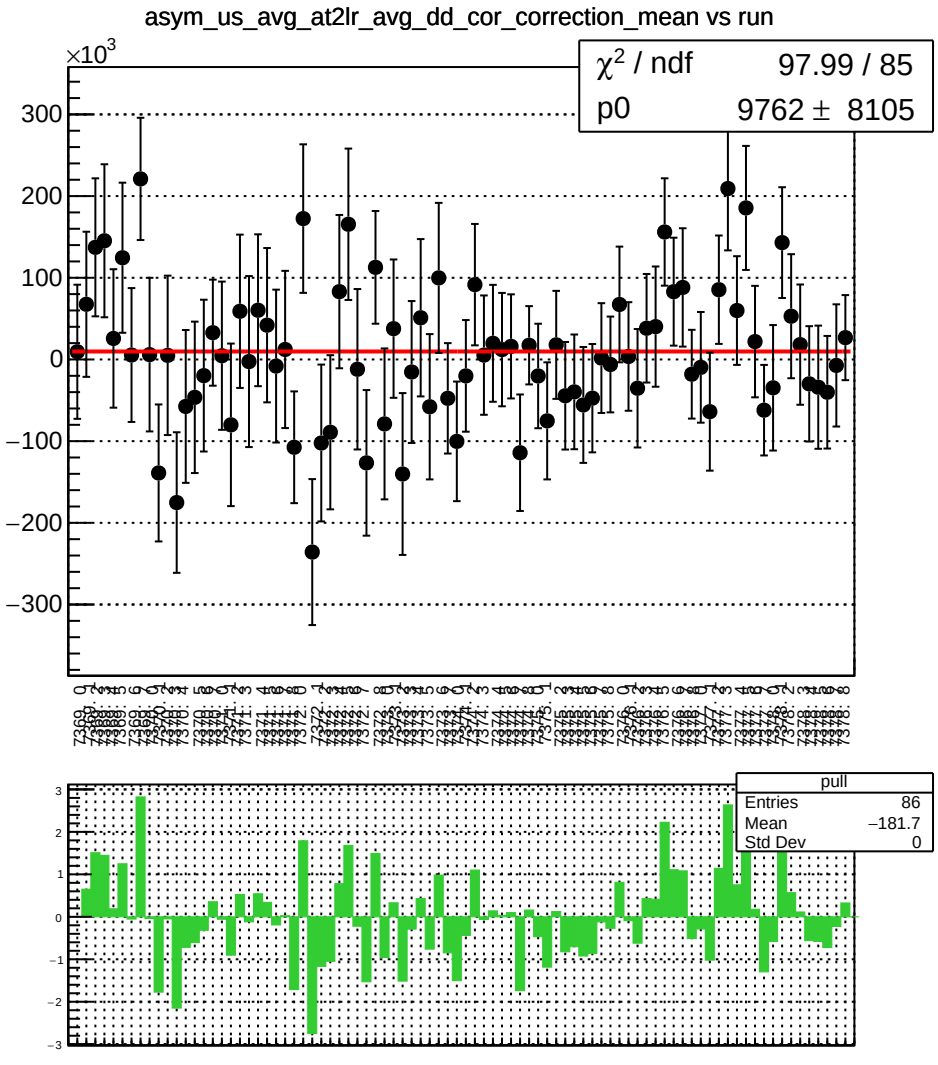

pull1D
Entries 86
Mean −0.005912
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

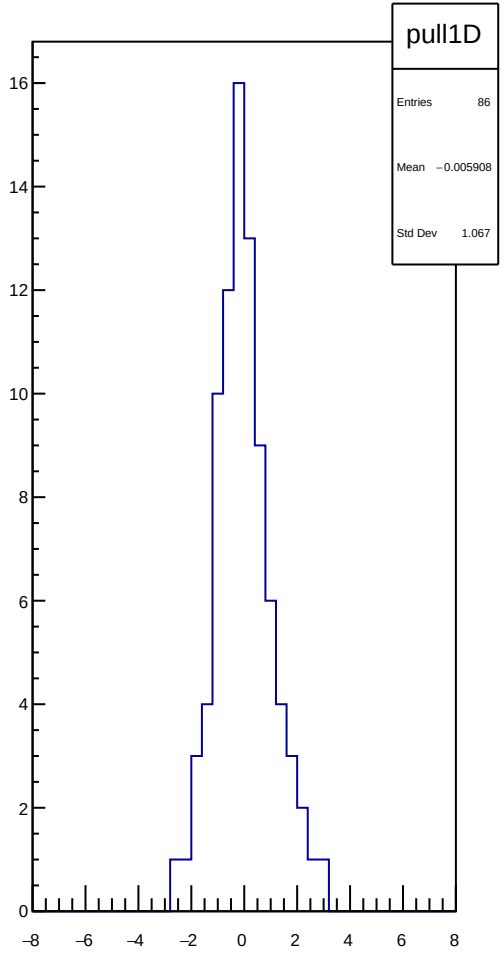

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 3.286e+04 / 85
p0 7365 ± 5.731
10000
9500
9000
8500
8000
7500
7000
6500
6000

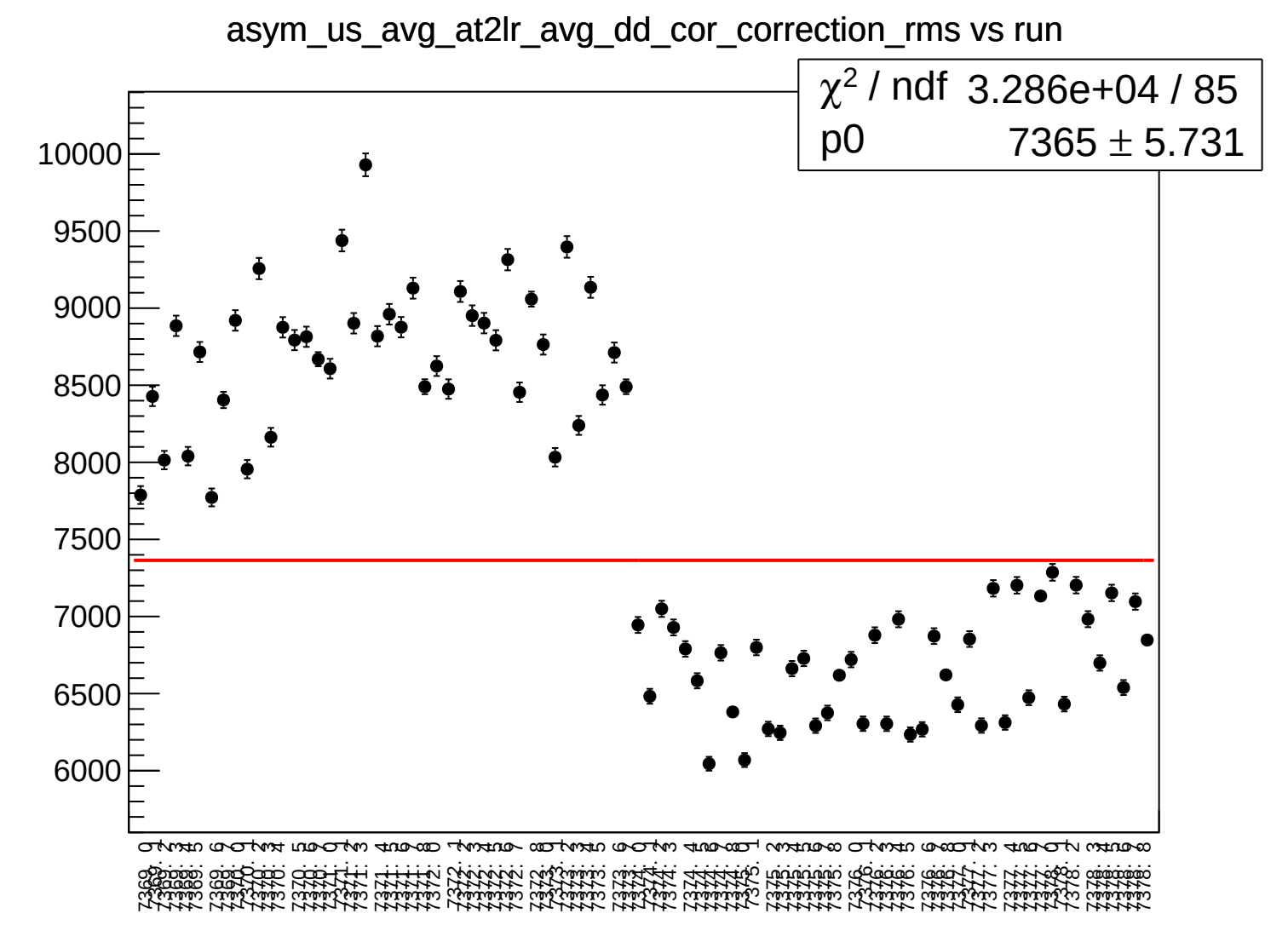

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 72.47 / 85
p0 1825 ± 1673
pull
Entries 86
Mean −862.5
Std Dev 0

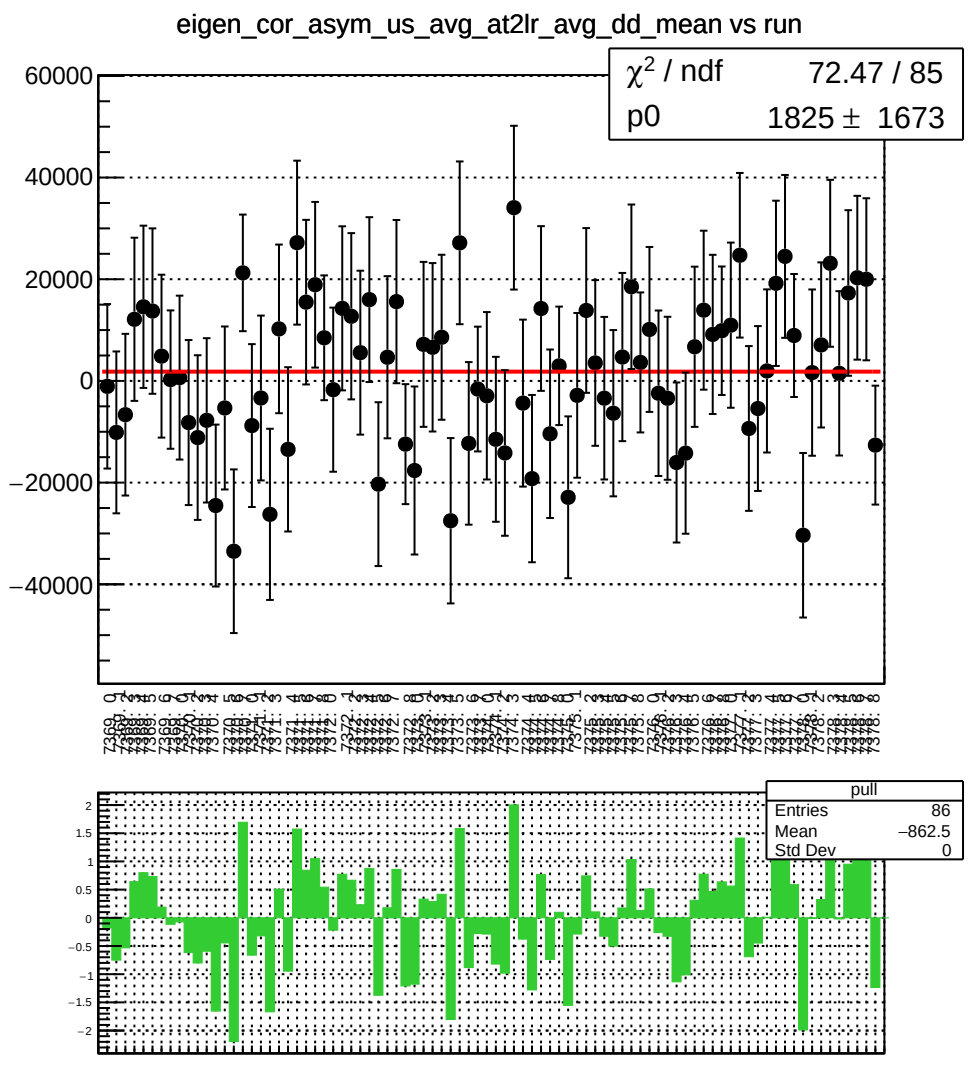

pull1D
Entries 86
Mean −0.003881
Std Dev 0.918

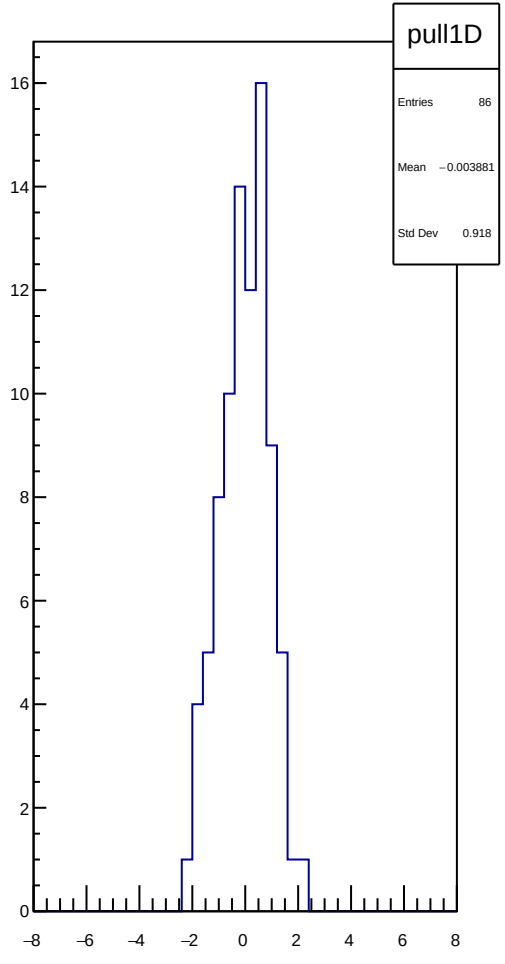

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 256.7 / 85
p0 1535 ± 1.183
1620
1600
1580
1560
1540
1520
1500
1480
1460

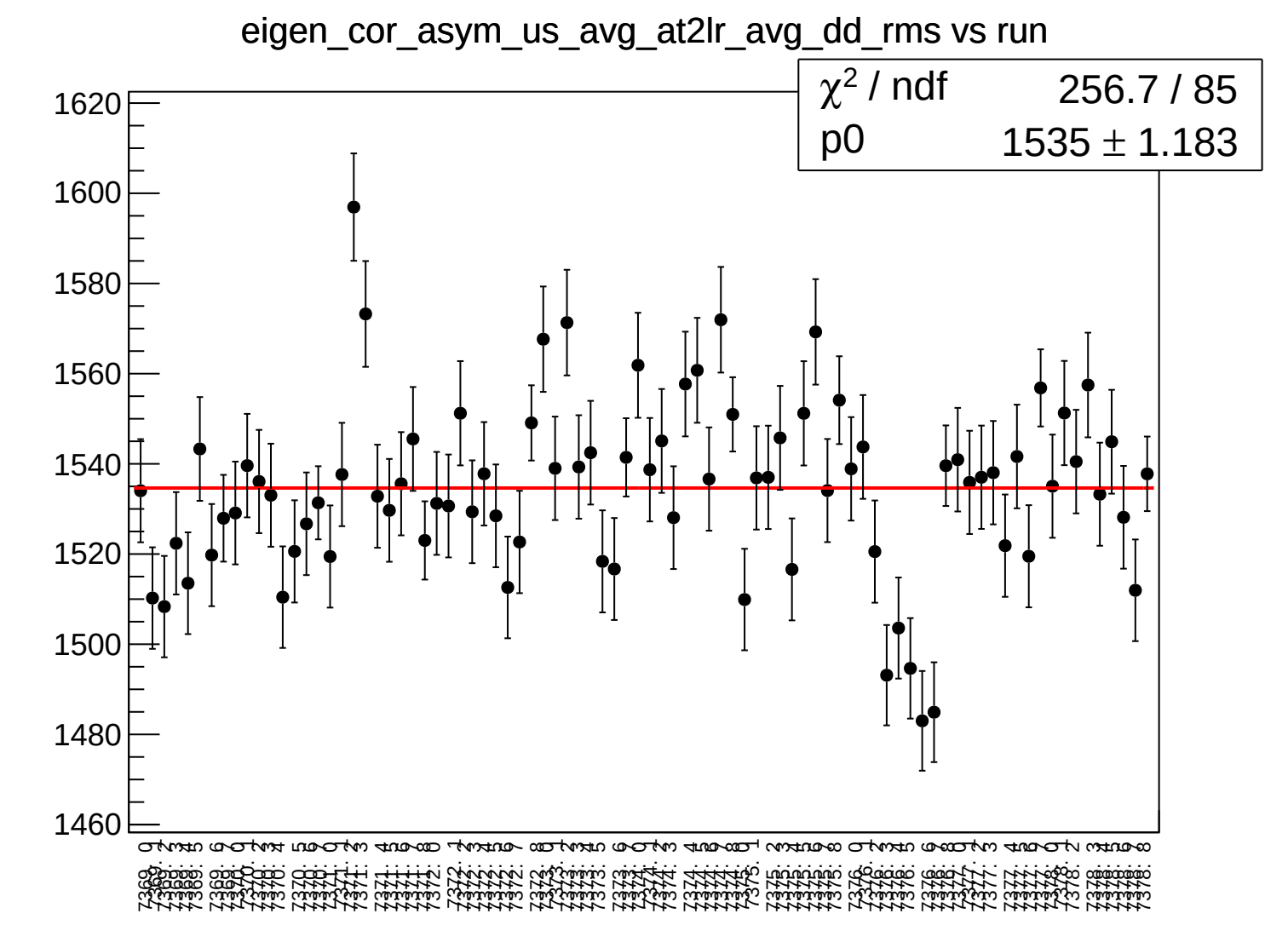

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.99 / 85
p0 9762 ± 8105
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −181.7
Std Dev 0
3
2
1
0
−1
−2
−3

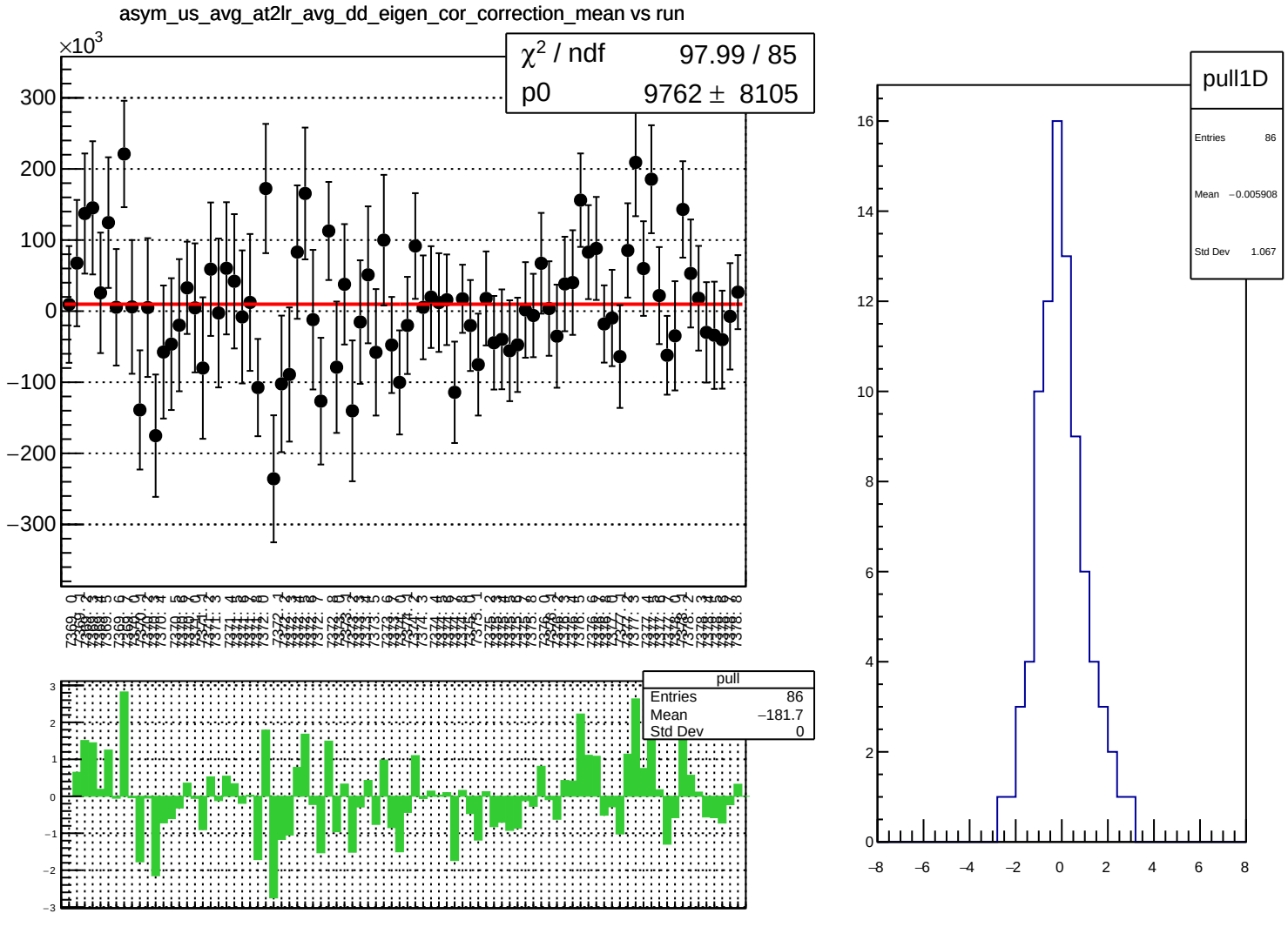

pull1D
Entries 86
Mean −0.005908
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

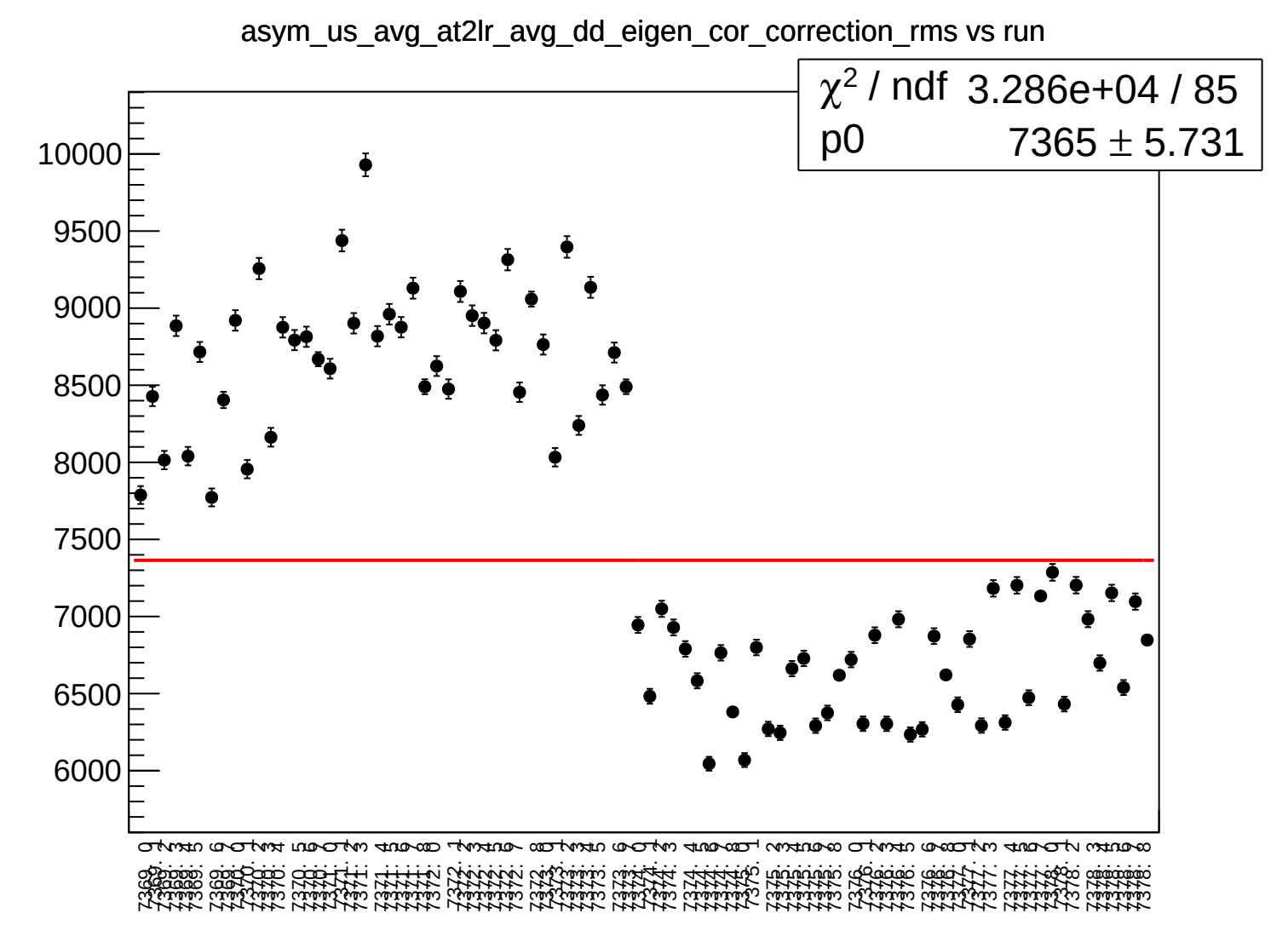

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 3.286e+04 / 85
p0 7365 ± 5.731
10000
9500
9000
8500
8000
7500
7000
6500
6000

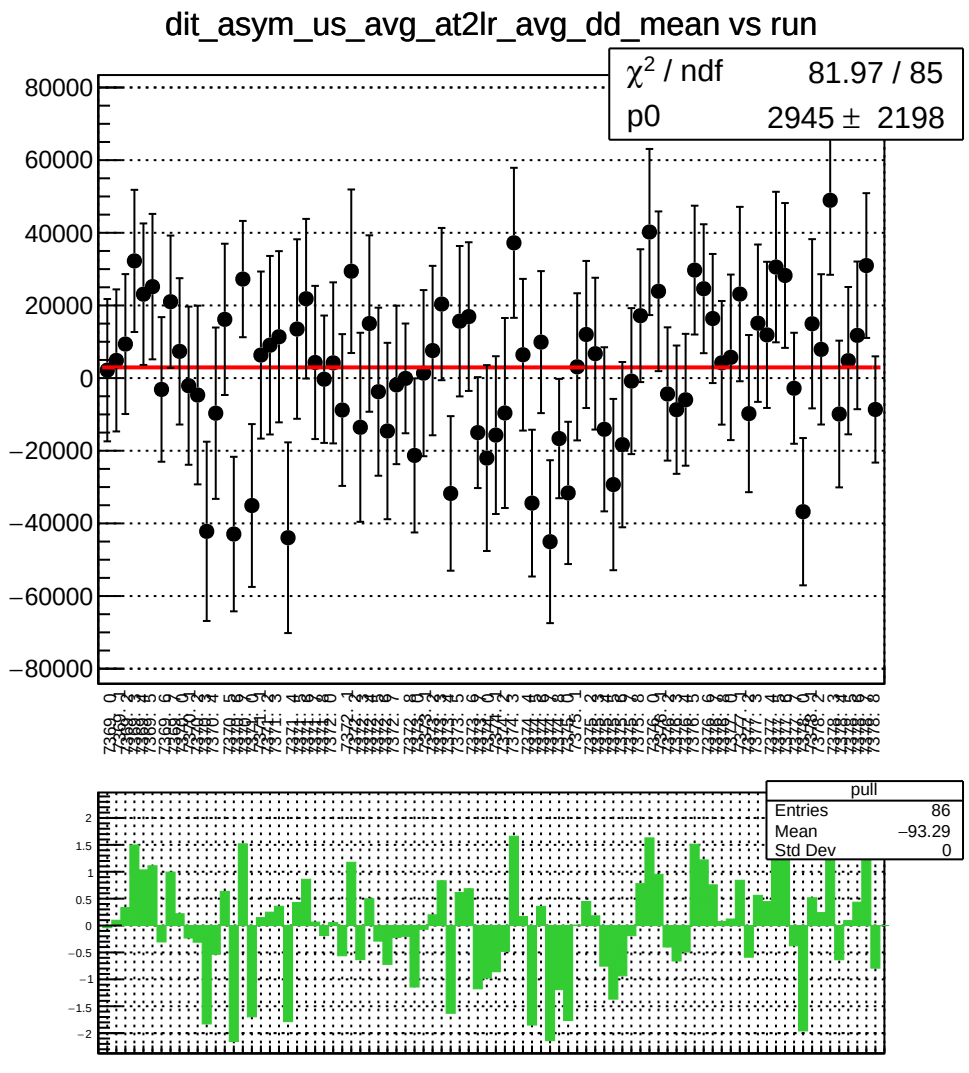

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 72.47 / 85
p0 1825 ± 1673
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −862.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

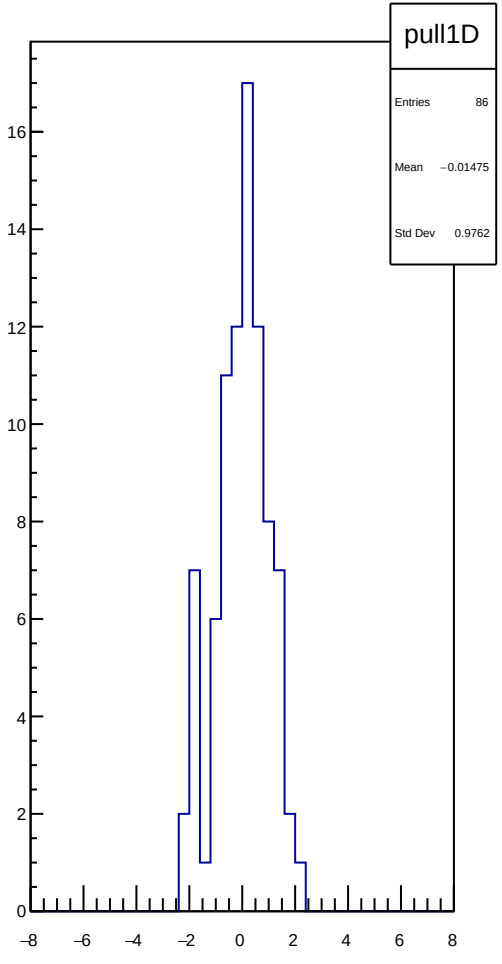

pull1D
Entries 86
Mean −0.003881
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

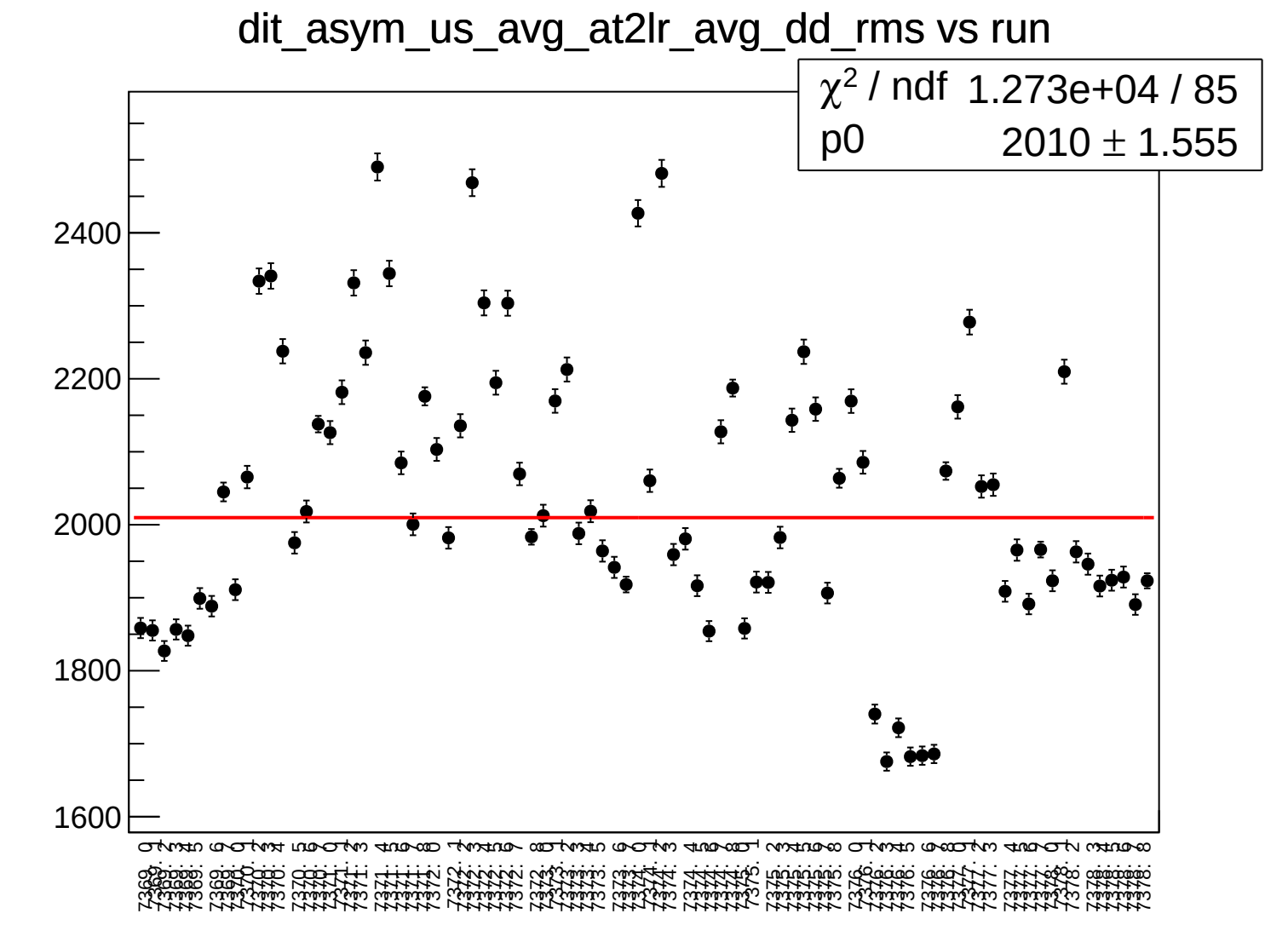

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 256.7 / 85
p0 1535 ± 1.183
1620
1600
1580
1560
1540
1520
1500
1480
1460

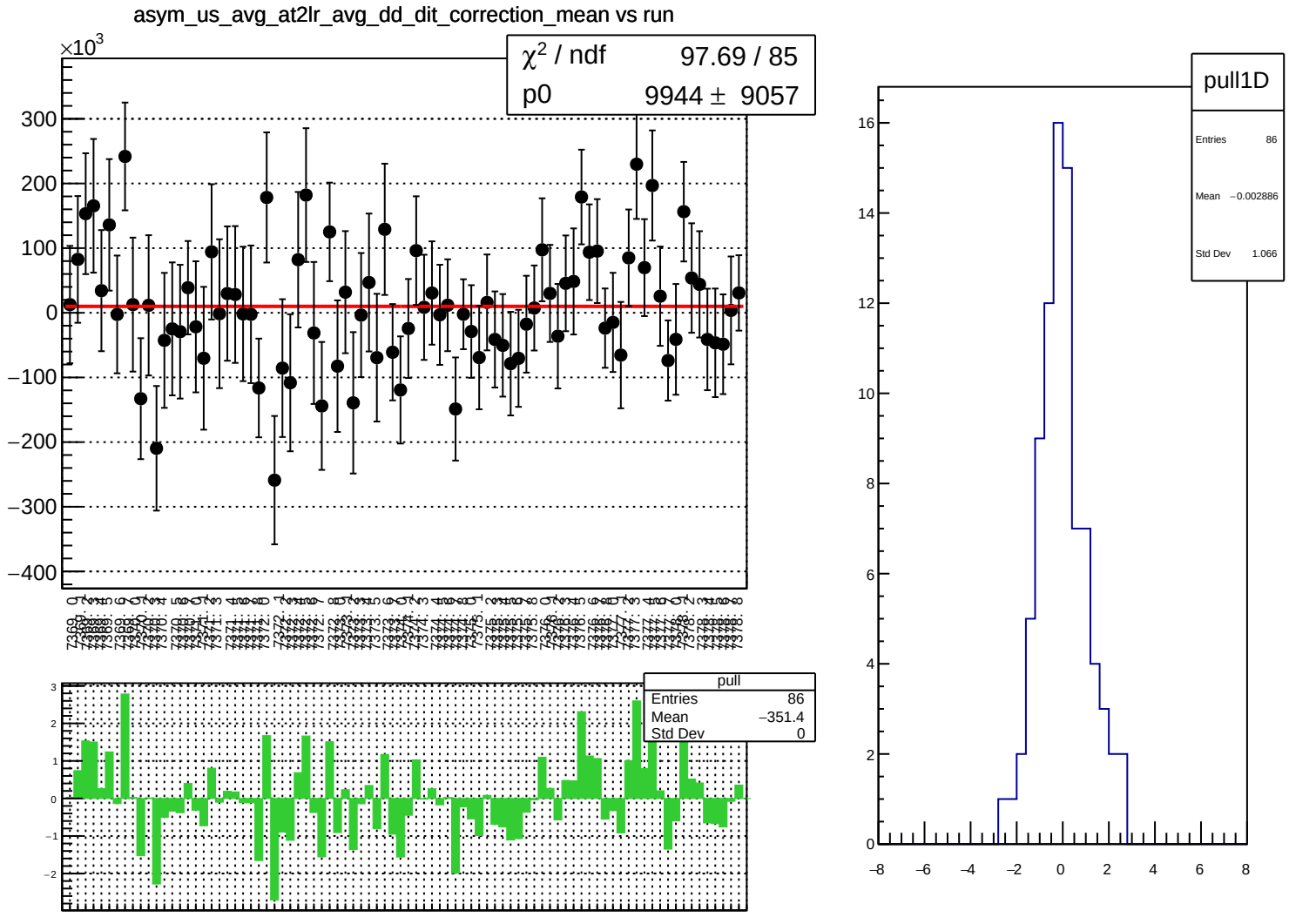

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.99 / 85
p0 9762 ± 8105
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −181.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.005908
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

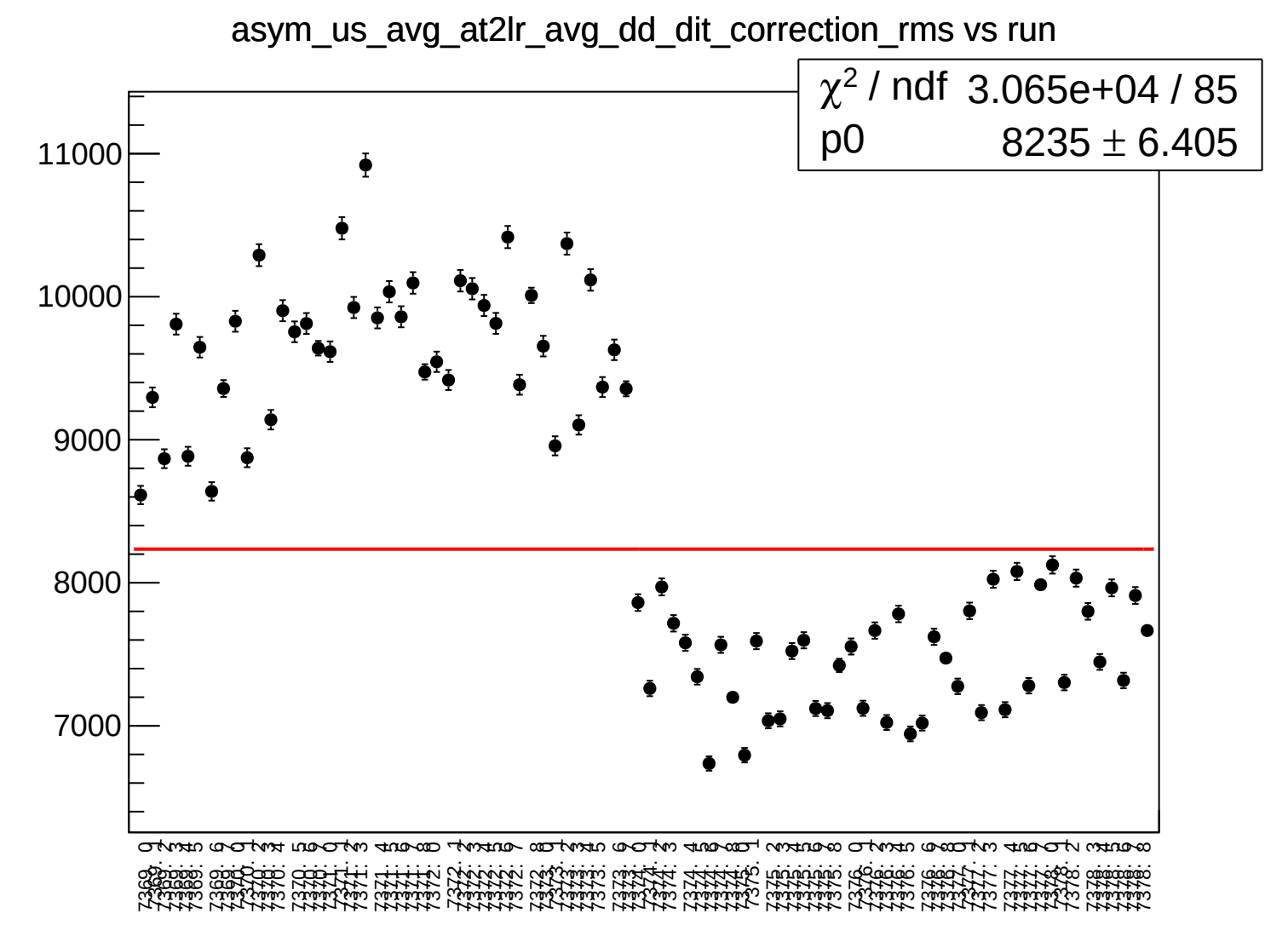

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.286e+04 / 85
p0 7365 ± 5.731
10000
9500
9000
8500
8000
7500
7000
6500
6000

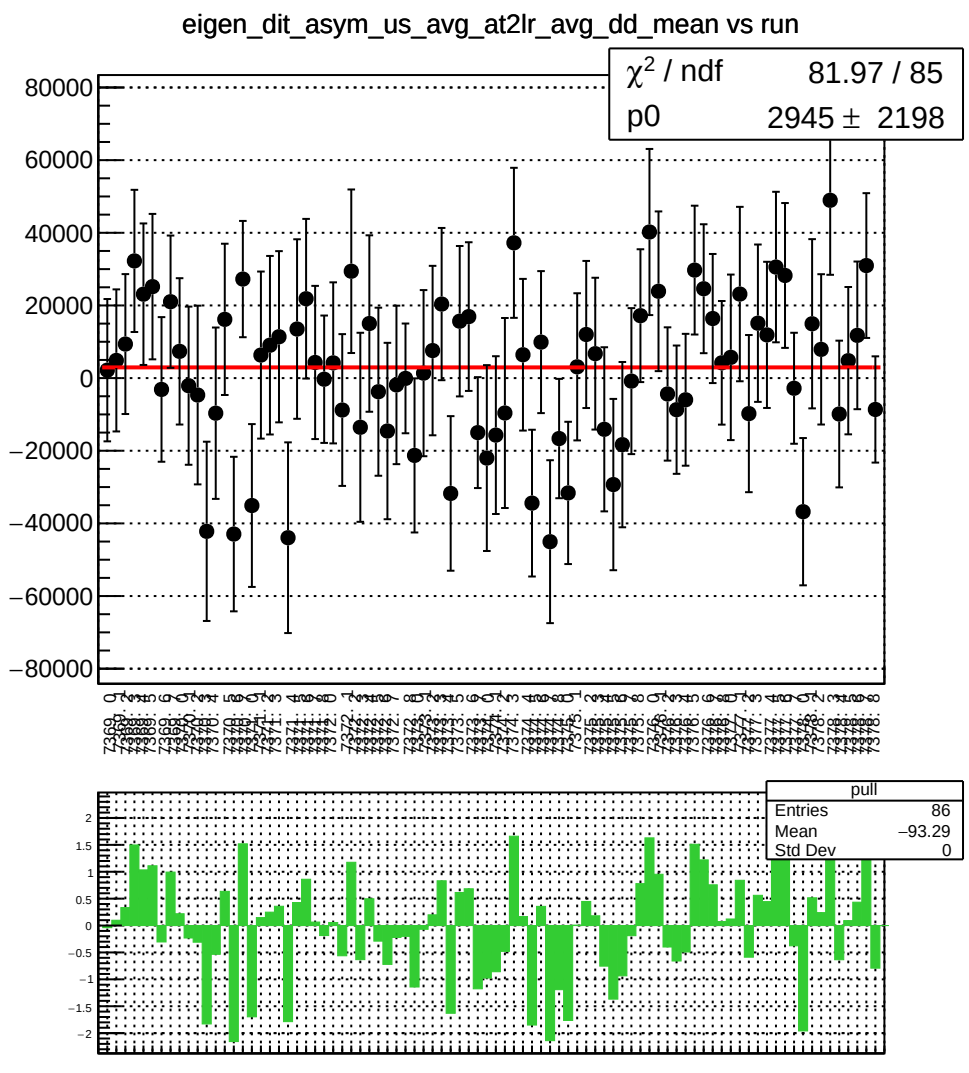

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 81.97 / 85
p0 2945 ± 2198
pull
Entries 86
Mean −93.29
Std Dev 0

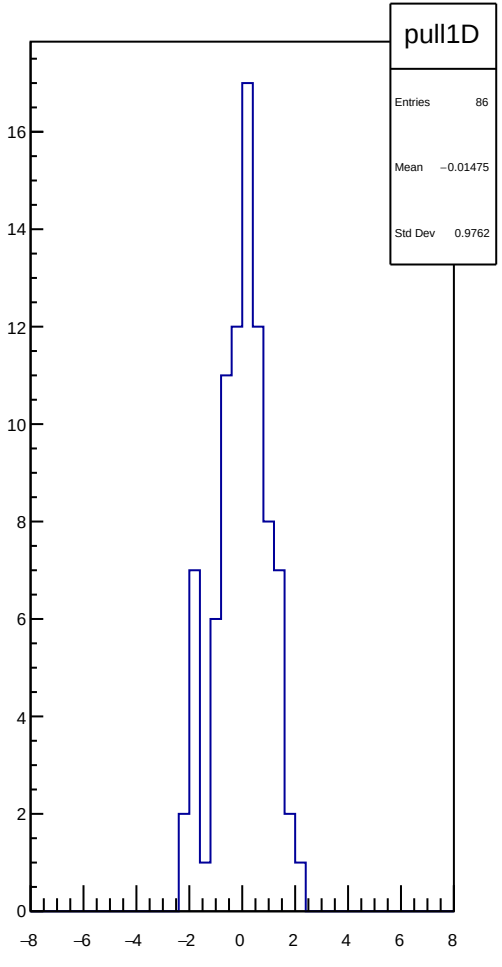

pull1D
Entries 86
Mean −0.01475
Std Dev 0.9762

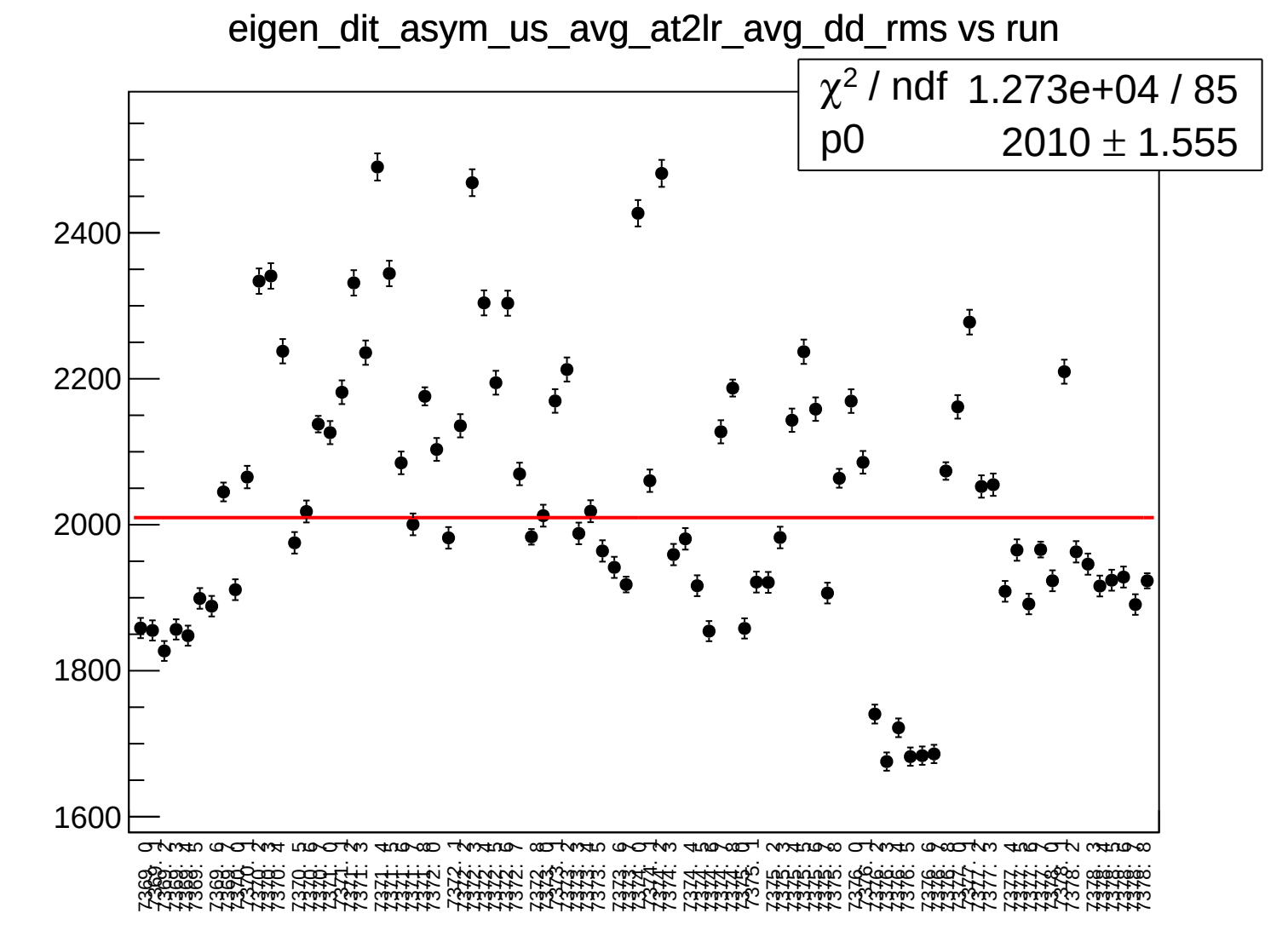

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.273e+04 / 85
p0 2010 ± 1.555
2400
2200
2000
1800
1600

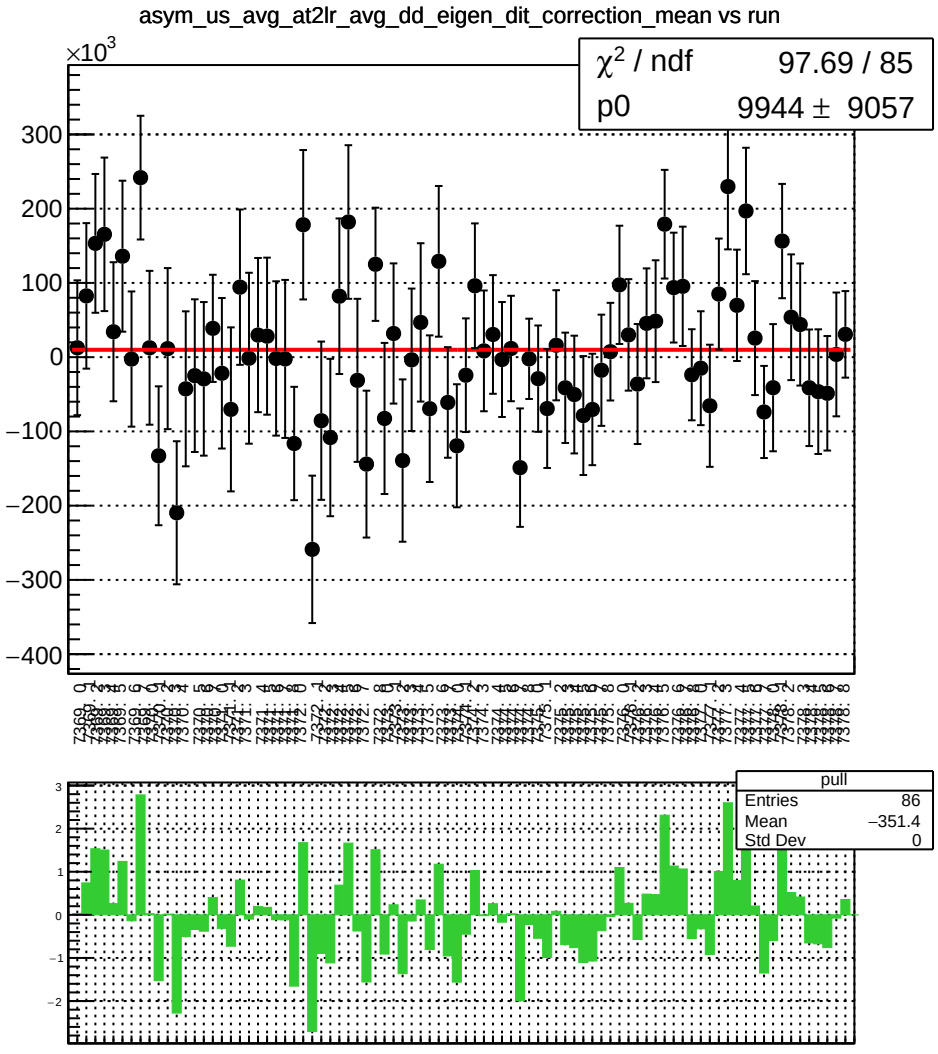

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.69 / 85
p0 9944 ± 9057
300
200
100
0
−100
−200
−300
−400
pull
Entries 86
Mean −351.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.002886
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

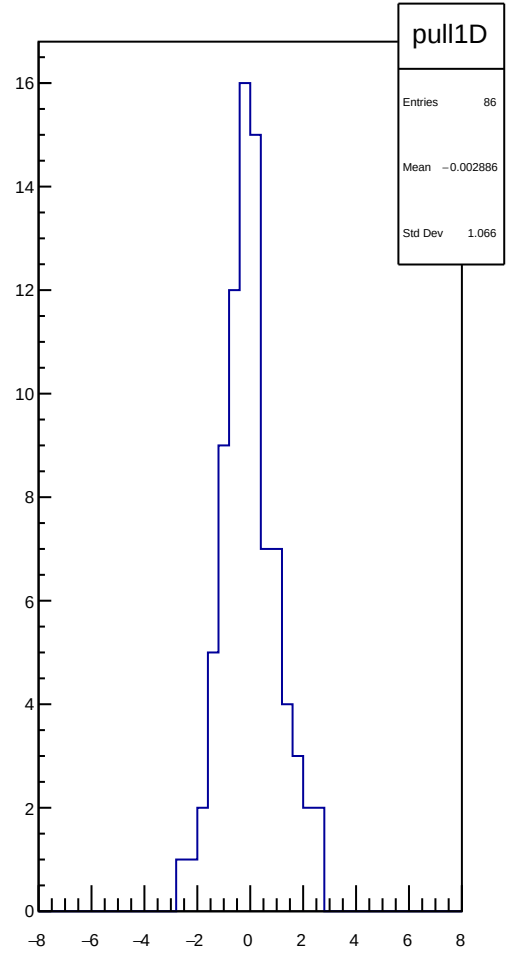

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.065e+04 / 85
p0 8235 ± 6.405
11000
10000
9000
8000
7000

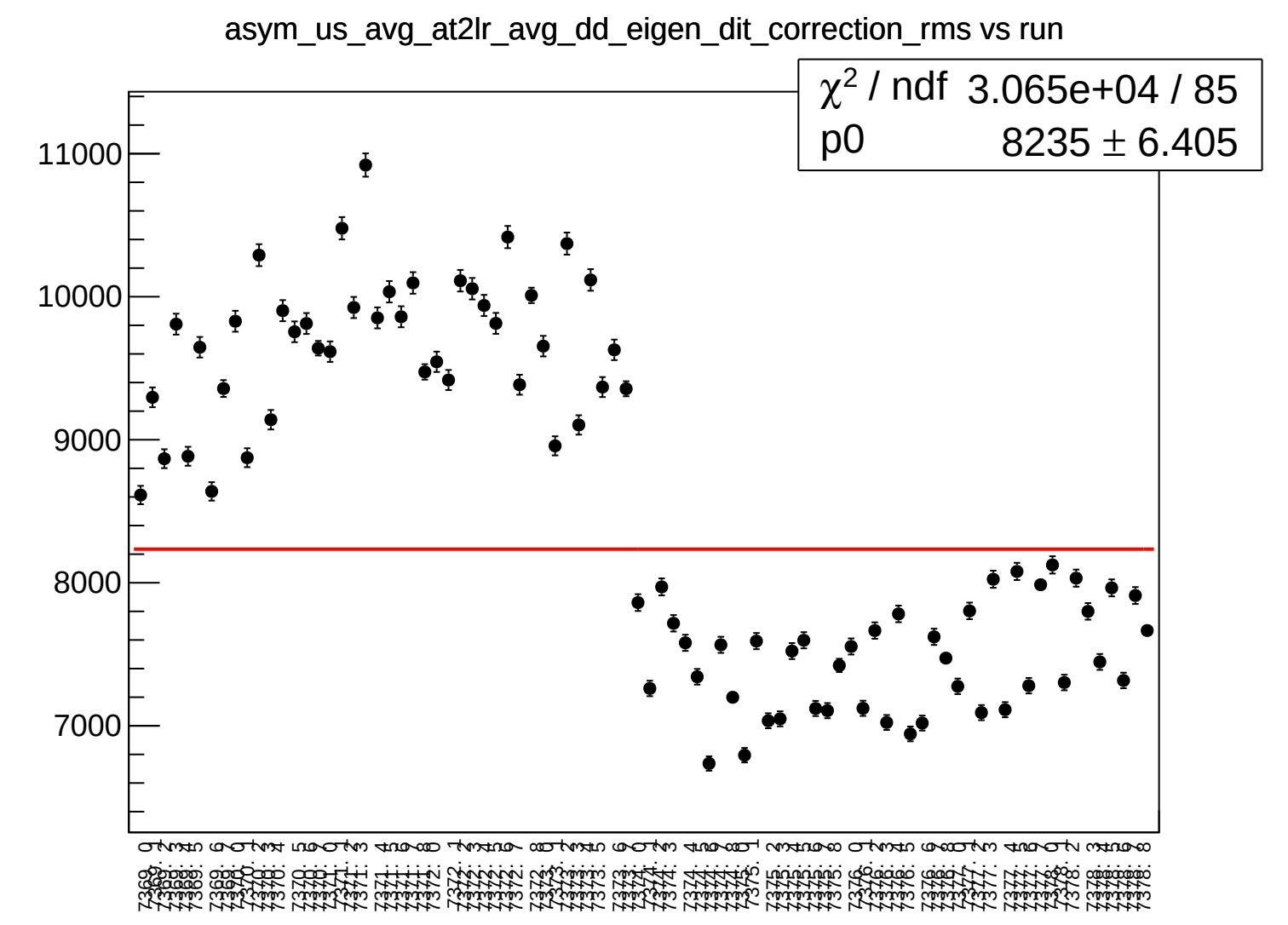

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 81.97 / 85
p0 2945 ± 2198
pull
Entries 86
Mean −93.29
Std Dev 0

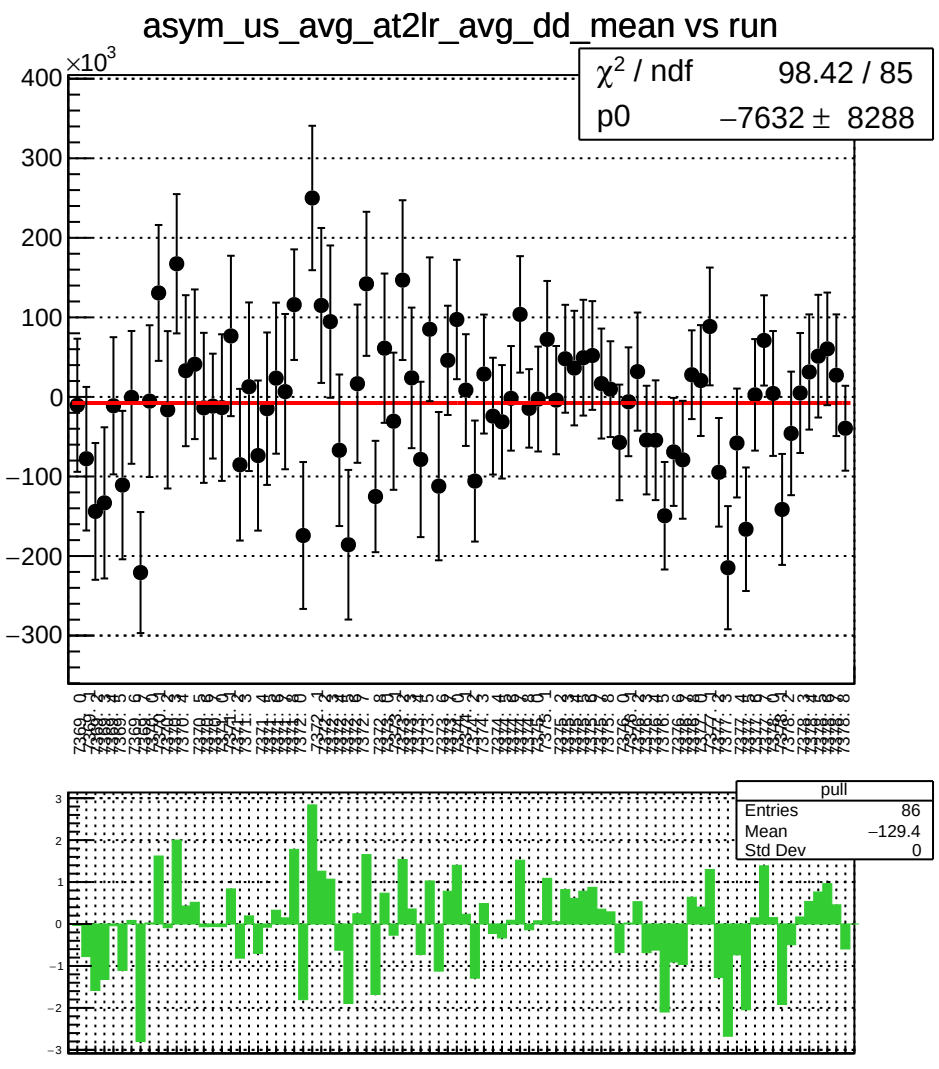

pull1D
Entries 86
Mean −0.01475
Std Dev 0.9762

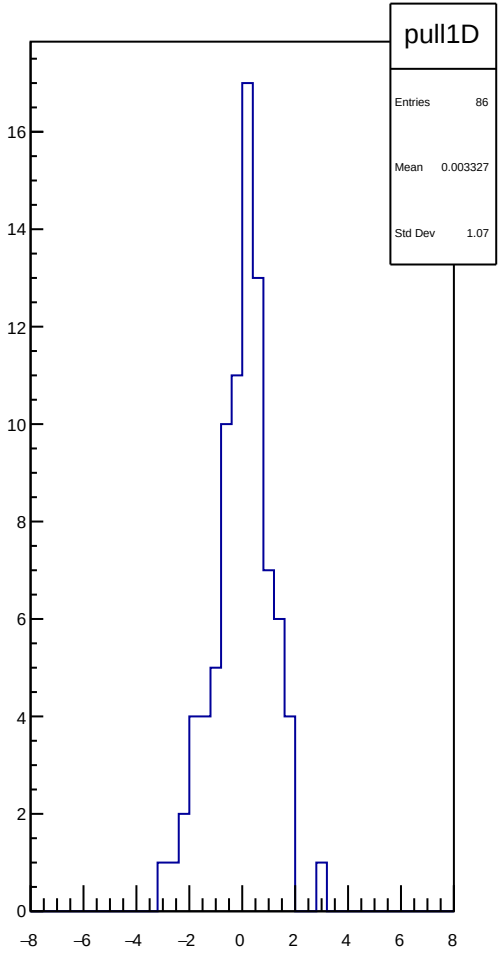

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.273e+04 / 85
p0 2010 ± 1.555
2400
2200
2000
1800
1600

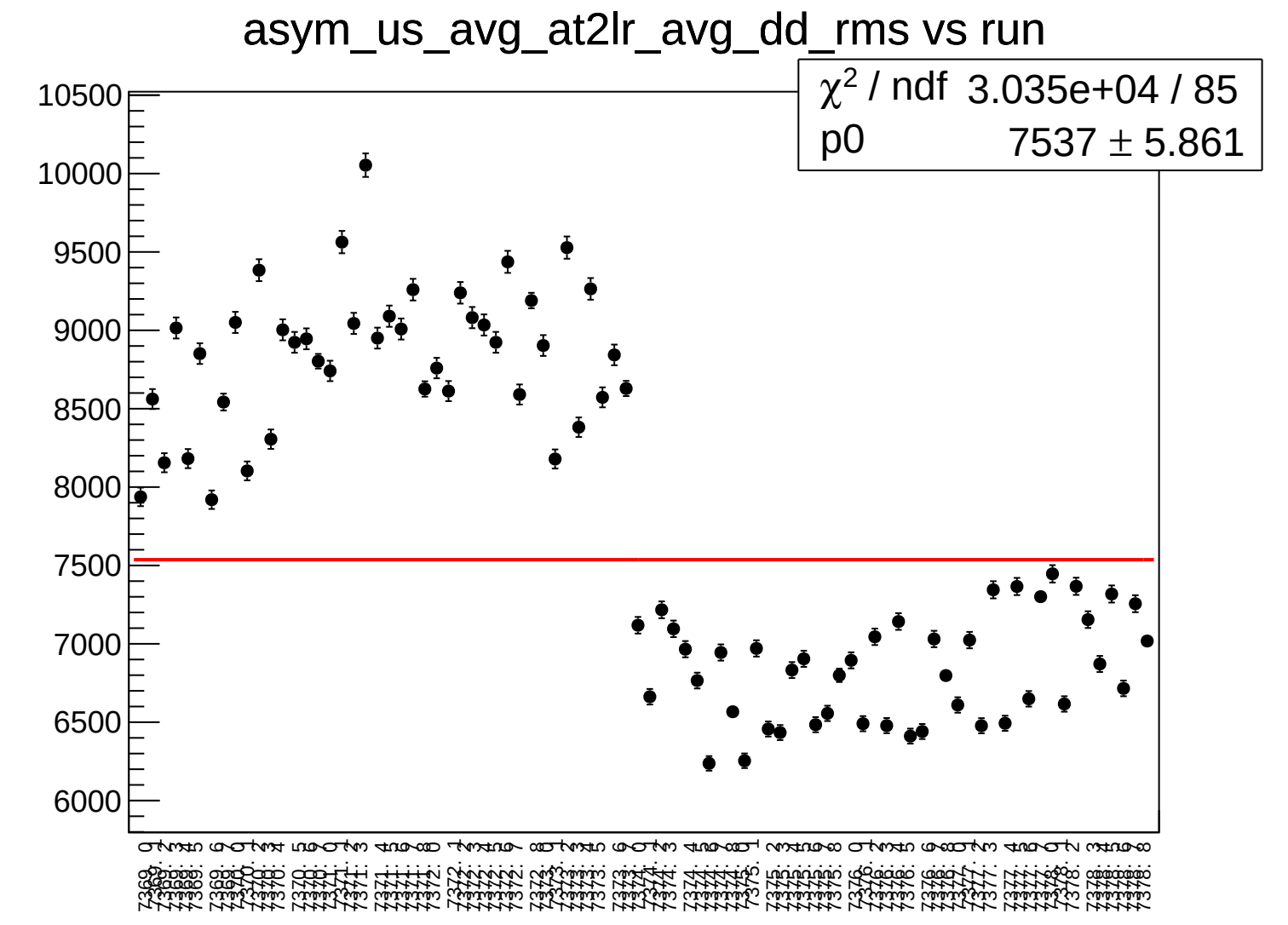

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.69 / 85
p0 9944 ± 9057
pull
Entries 86
Mean −351.4
Std Dev 0

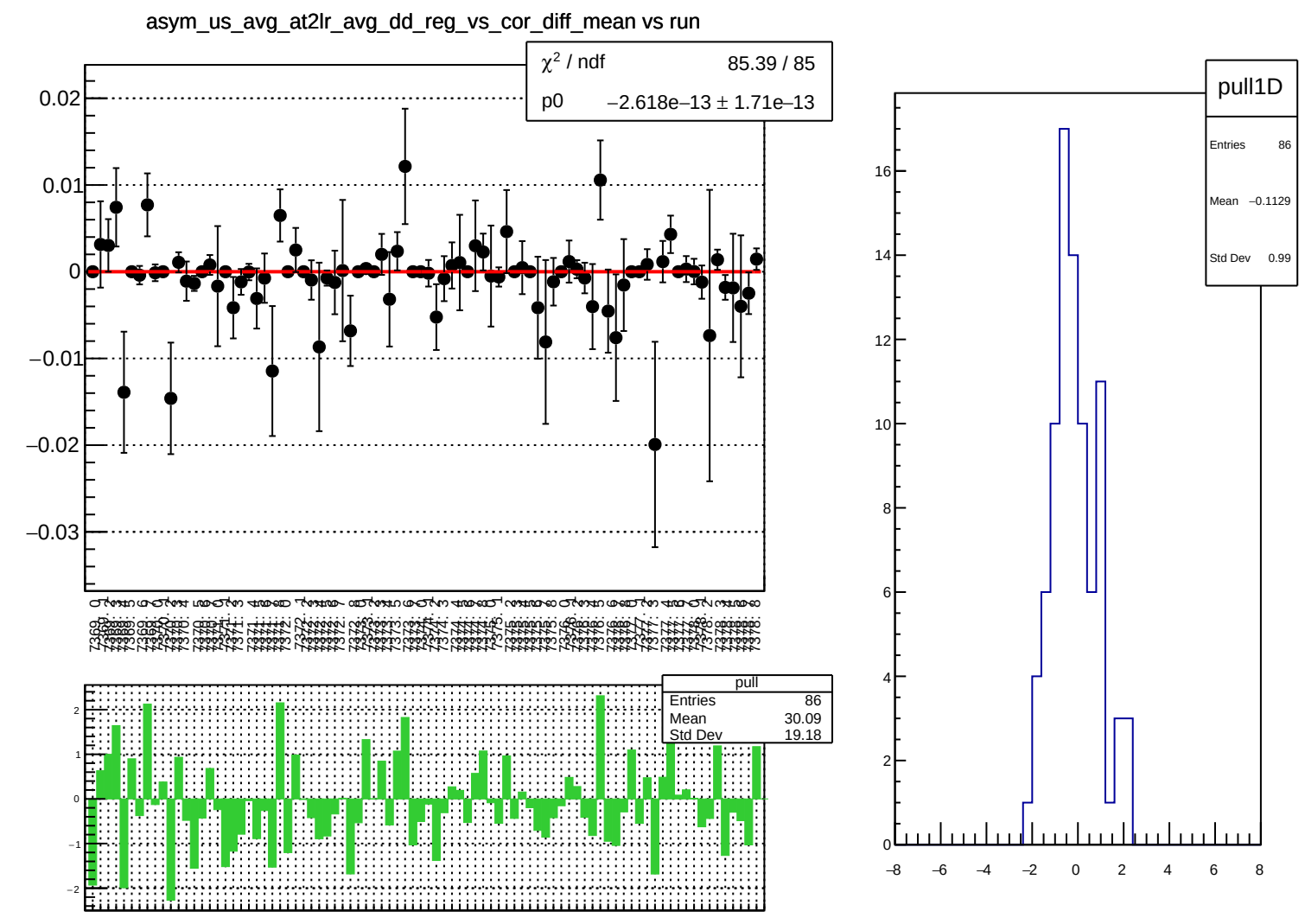

pull1D
Entries 86
Mean −0.002886
Std Dev 1.066

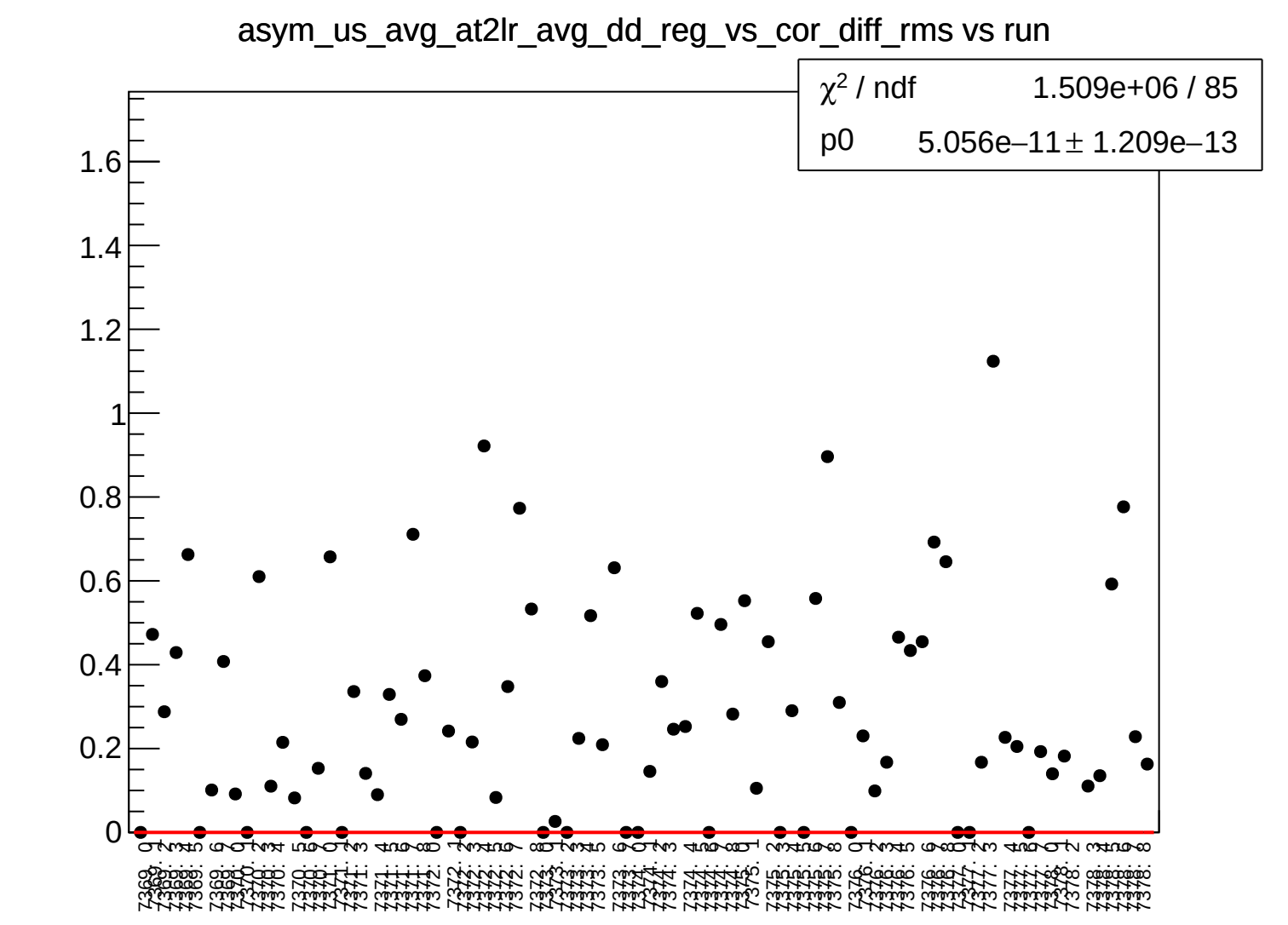

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.065e+04 / 85
p0 8235 ± 6.405
11000
10000
9000
8000
7000

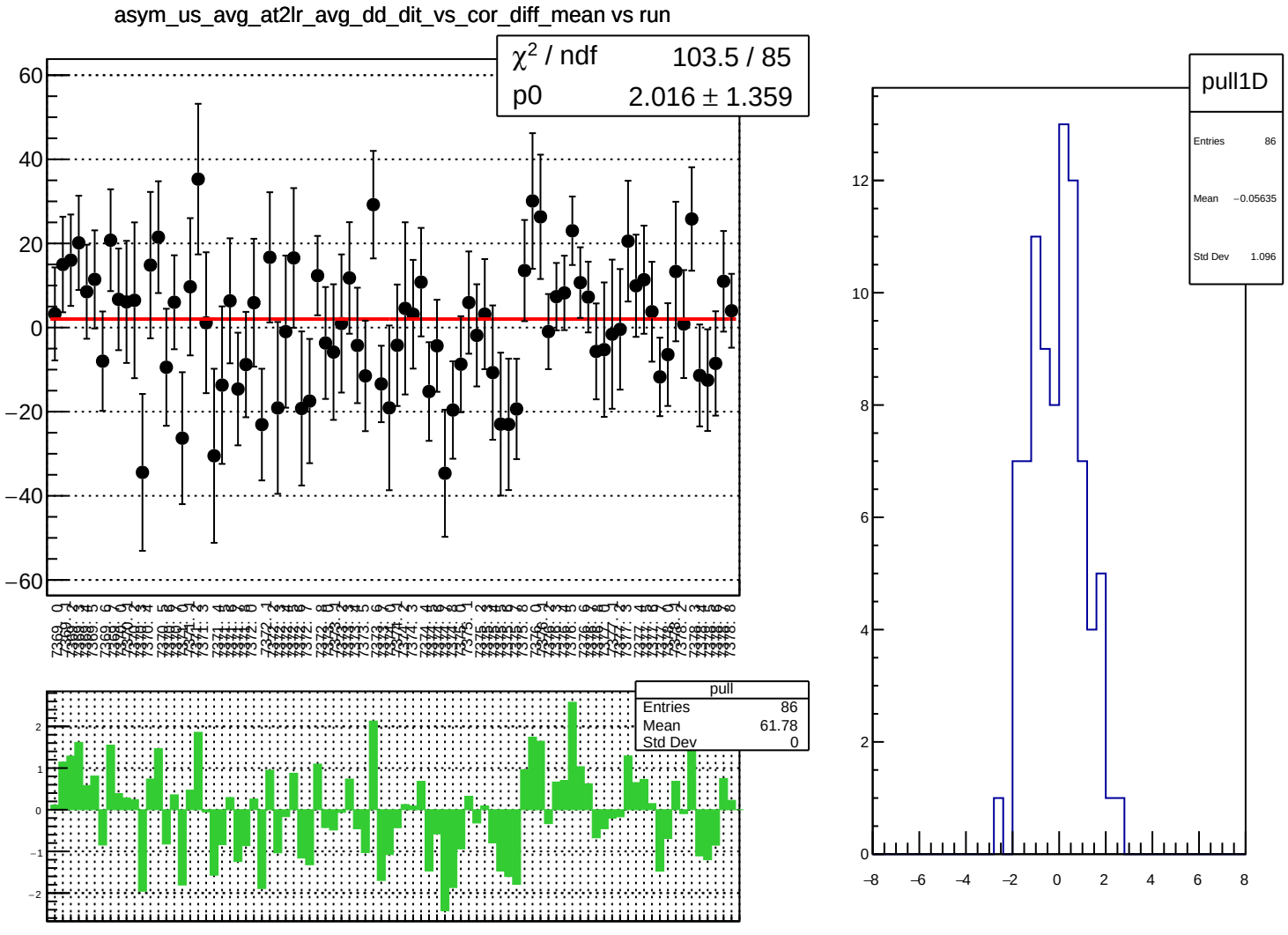

asym_us_avg_at2lr_avg_dd_mean vs run
χ^2 / ndf 98.42 / 85
p0 −7632 ± 8288
×10^3
pull
Entries 86
Mean −129.4
Std Dev 0

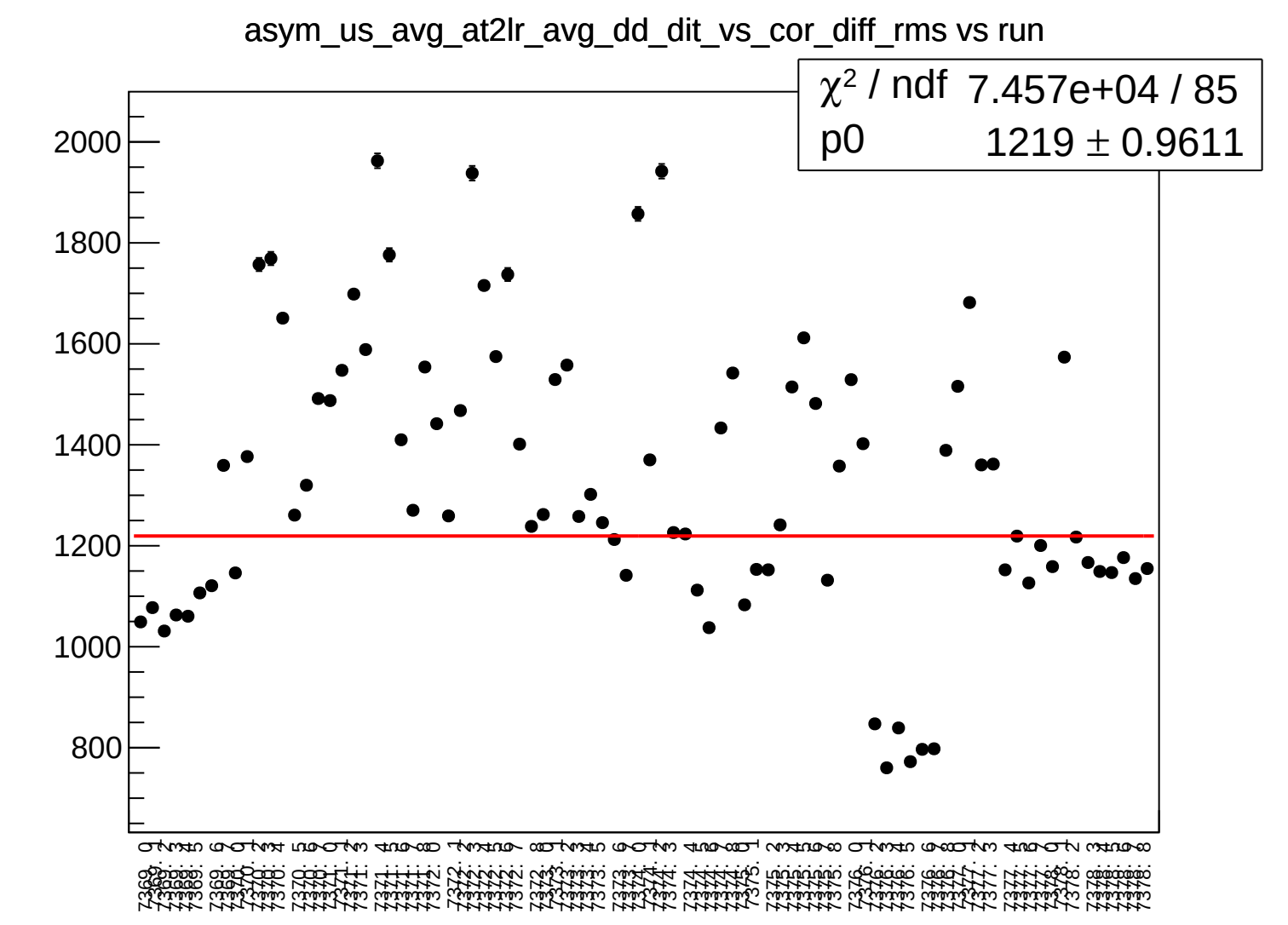

pull1D
Entries 86
Mean 0.003327
Std Dev 1.07

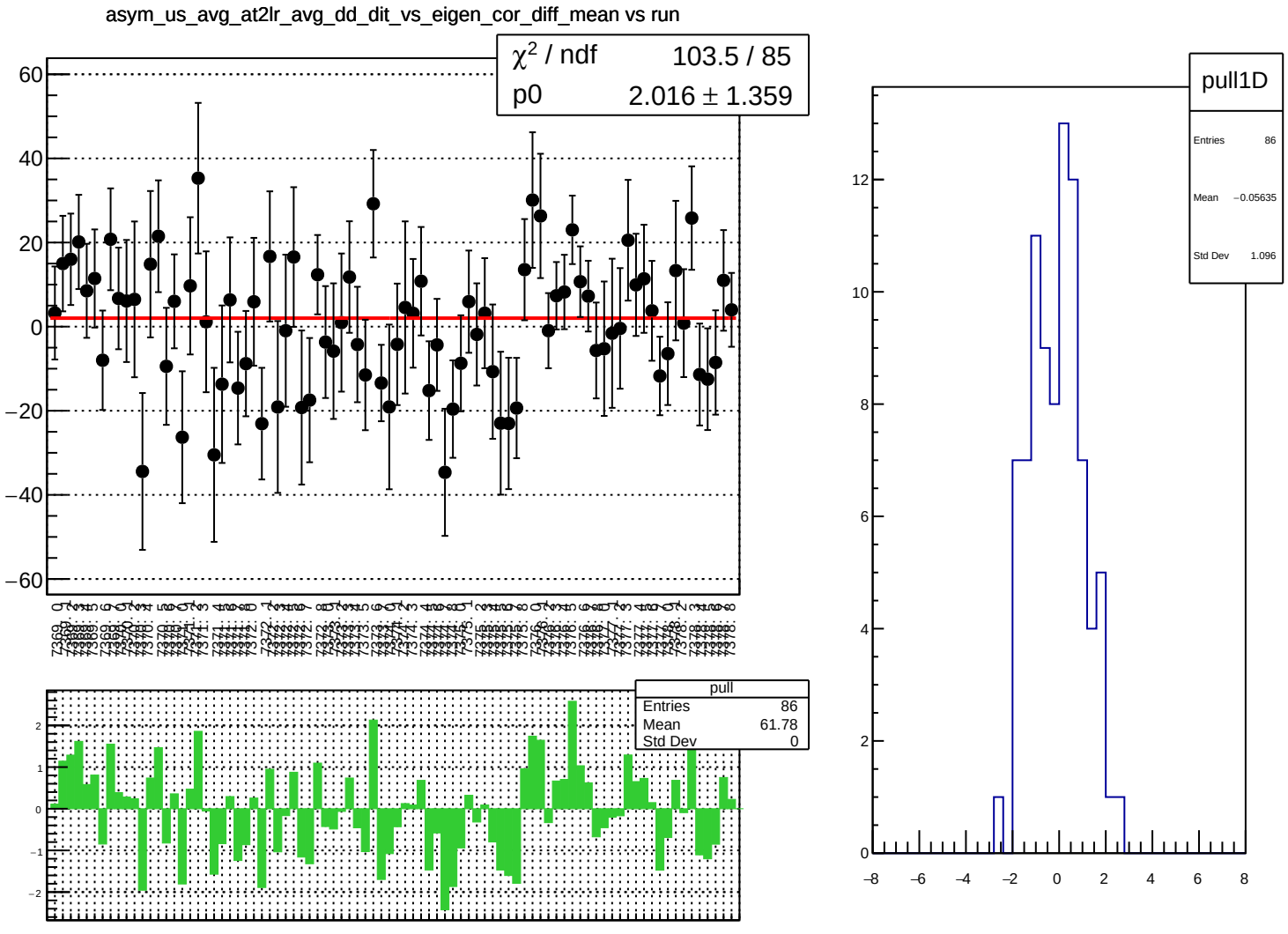

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3.035e+04 / 85
p0 7537 ± 5.861
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

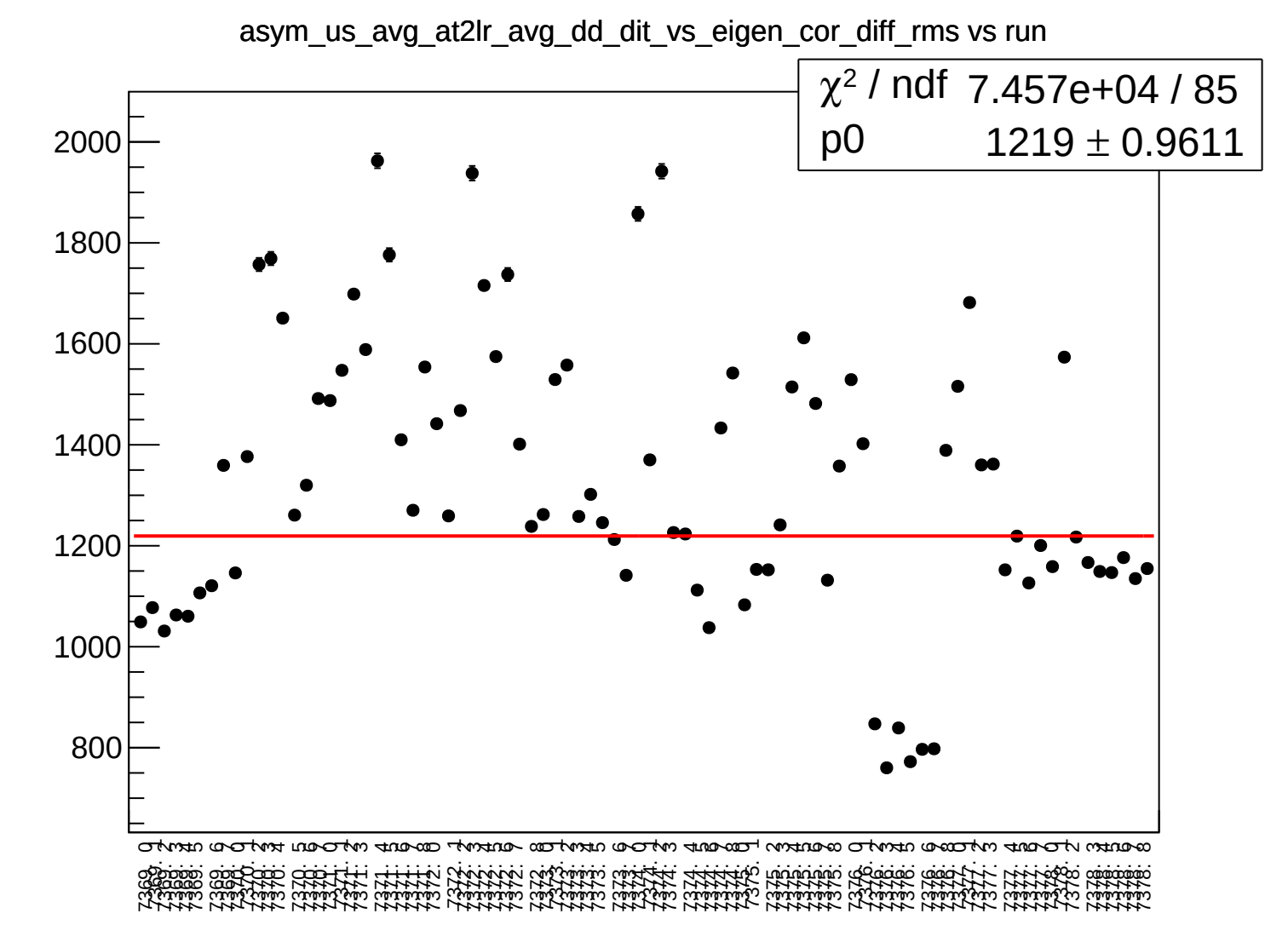

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.39 / 85
p0 −2.618e−13 ± 1.71e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 30.09
Std Dev 19.18
pull1D
Entries 86
Mean −0.1129
Std Dev 0.99

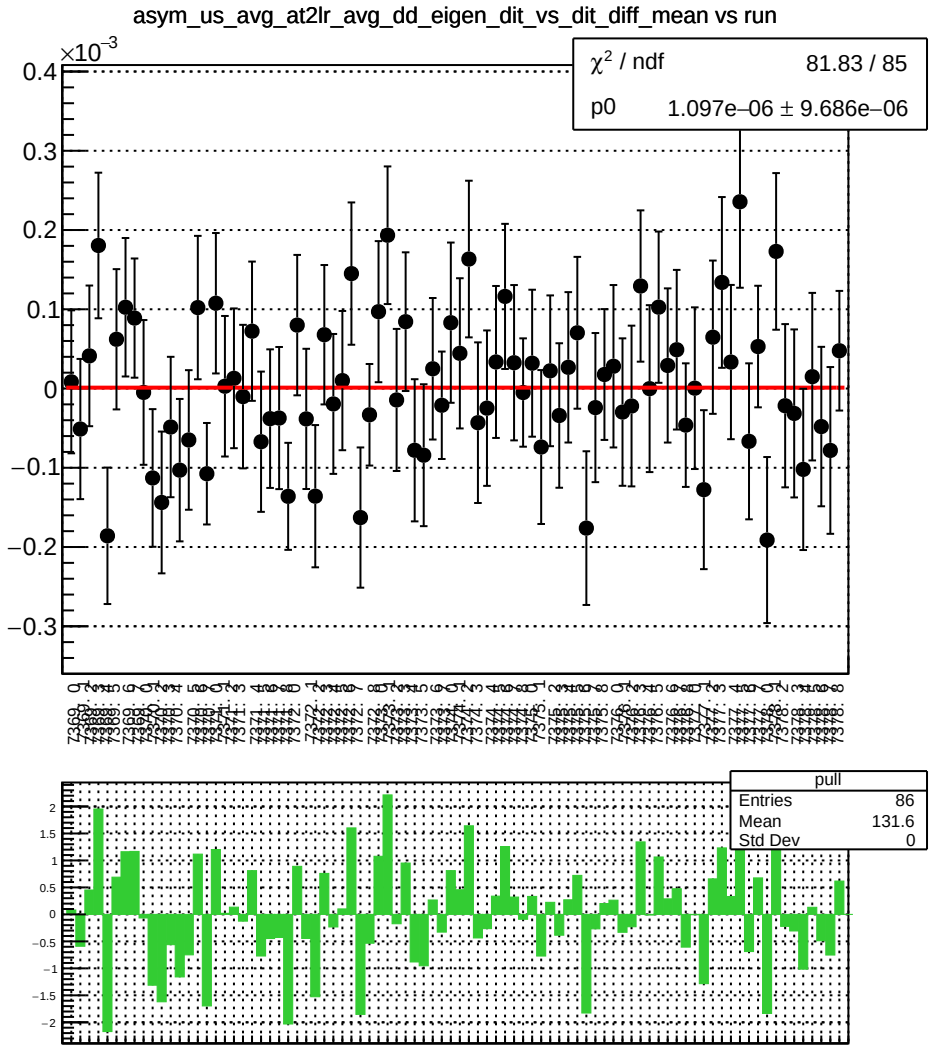

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.509e+06 / 85
p0 5.056e−11 ± 1.209e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

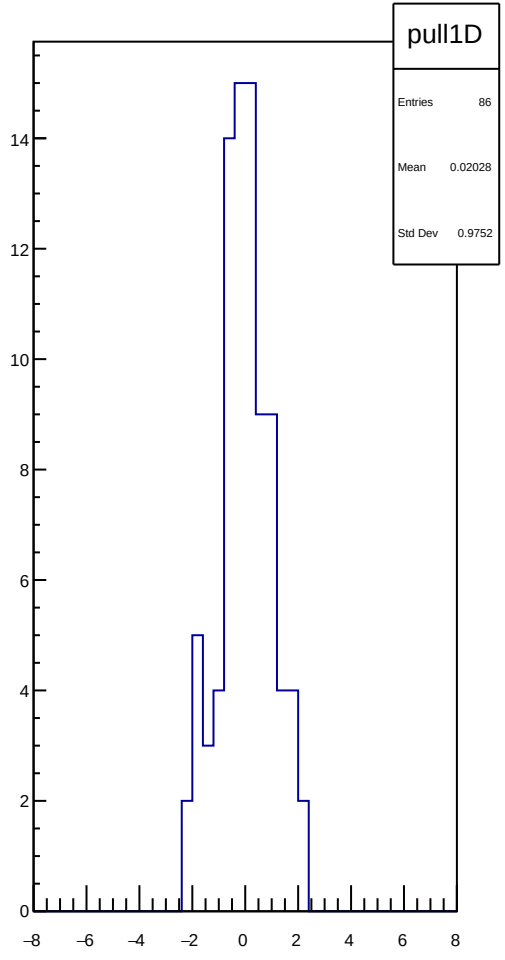

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 85
p0 2.016 ± 1.359
pull
Entries 86
Mean 61.78
Std Dev 0
pull1D
Entries 86
Mean −0.05635
Std Dev 1.096

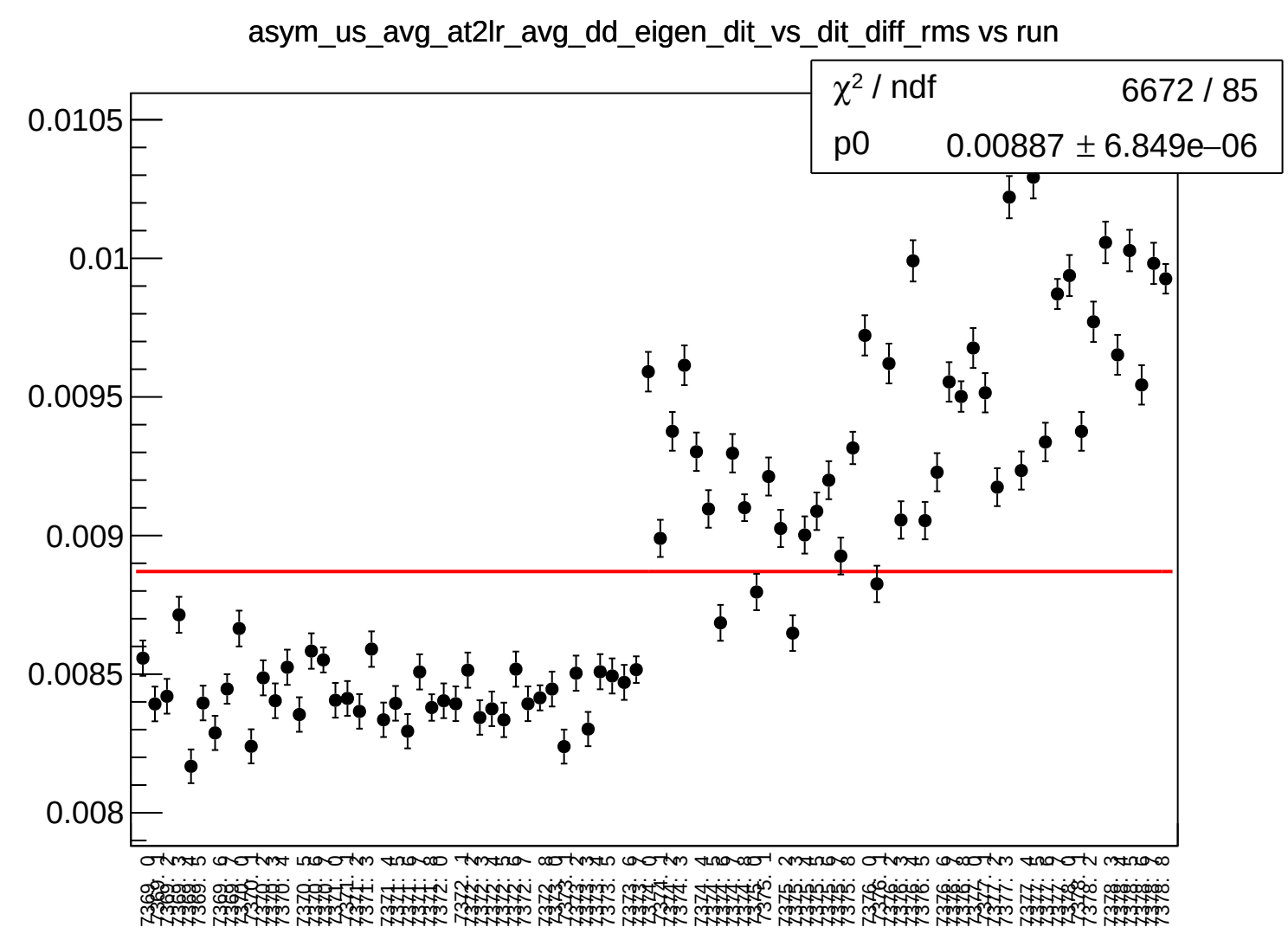

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.457e+04 / 85
p0 1219 ± 0.9611
2000
1800
1600
1400
1200
1000
800


asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.5 / 85
p0 2.016 ± 1.359
pull
Entries 86
Mean 61.78
Std Dev 0
pull1D
Entries 86
Mean −0.05635
Std Dev 1.096

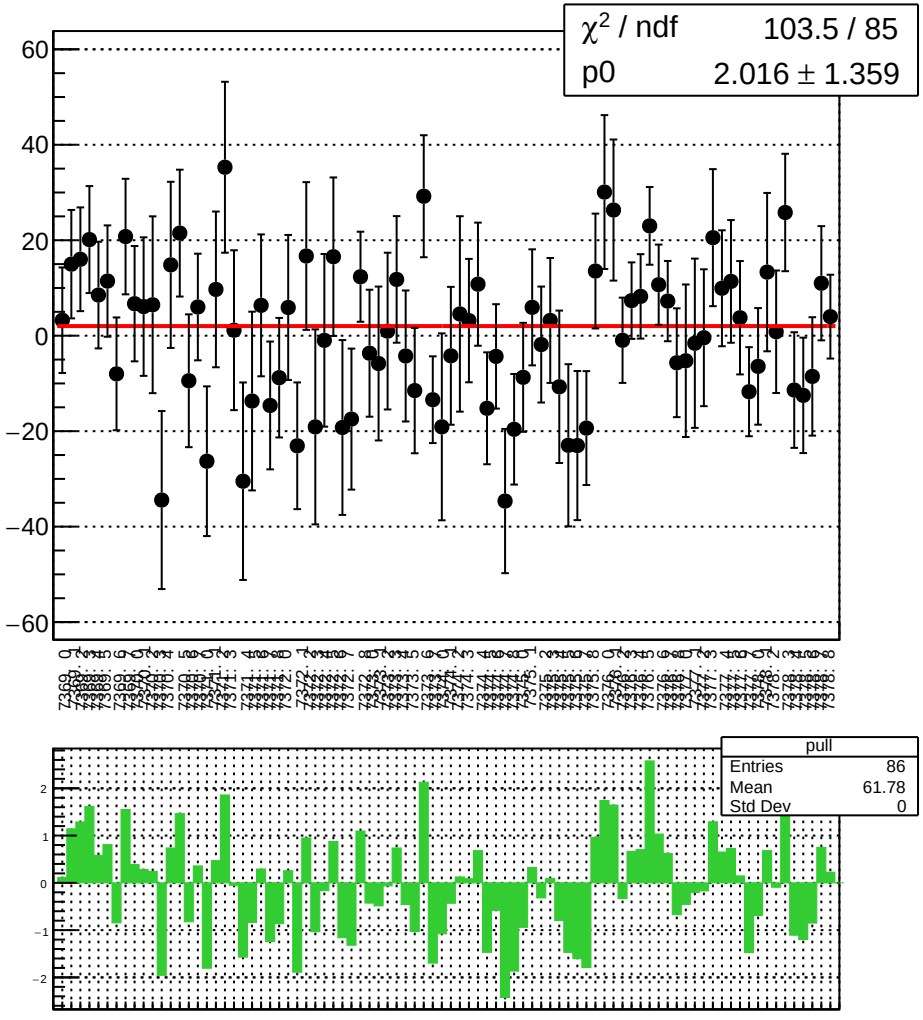

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.457e+04 / 85
p0 1219 ± 0.9611
2000
1800
1600
1400
1200
1000
800

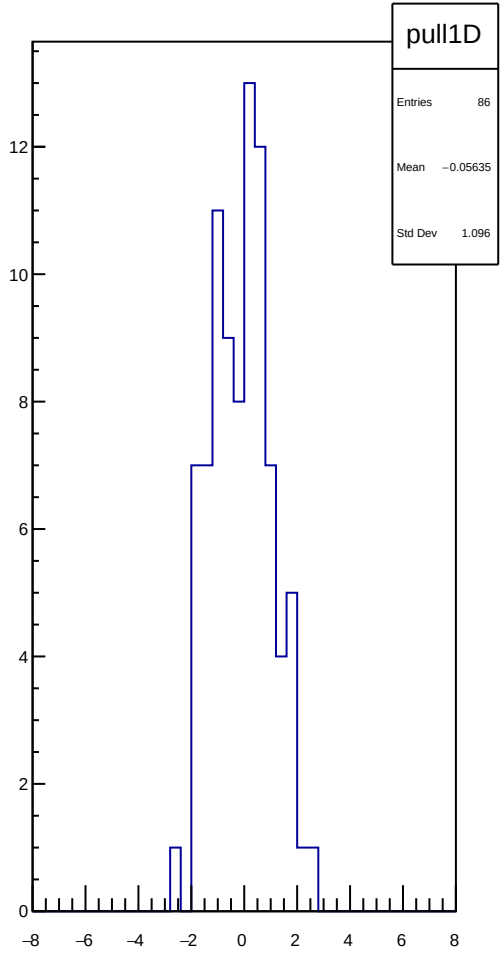

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.83 / 85
p0 1.097e−06 ± 9.686e−06
pull
Entries 86
Mean 131.6
Std Dev 0

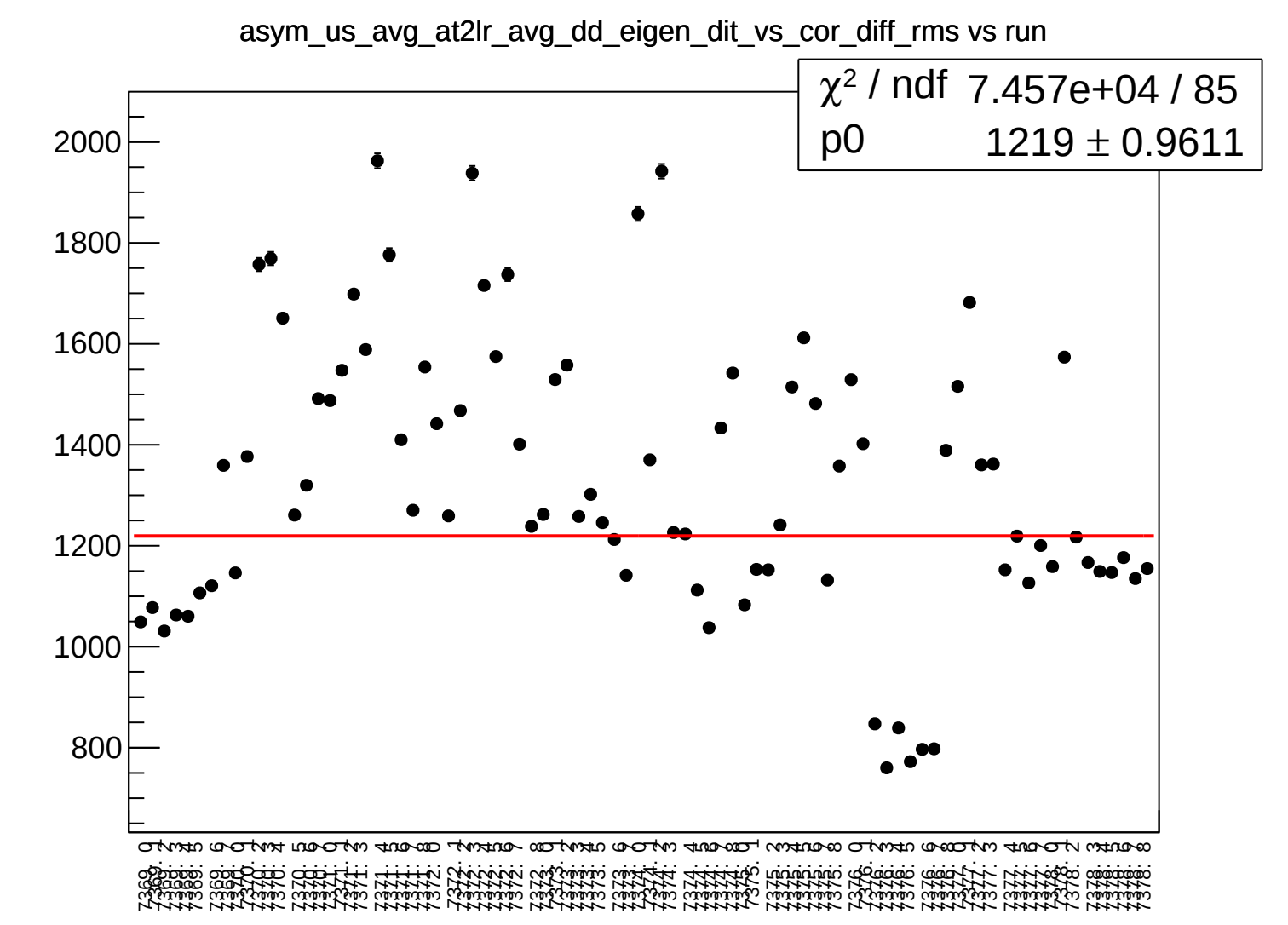

pull1D
Entries 86
Mean 0.02028
Std Dev 0.9752


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6672 / 85
p0 0.00887 ± 6.849e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008

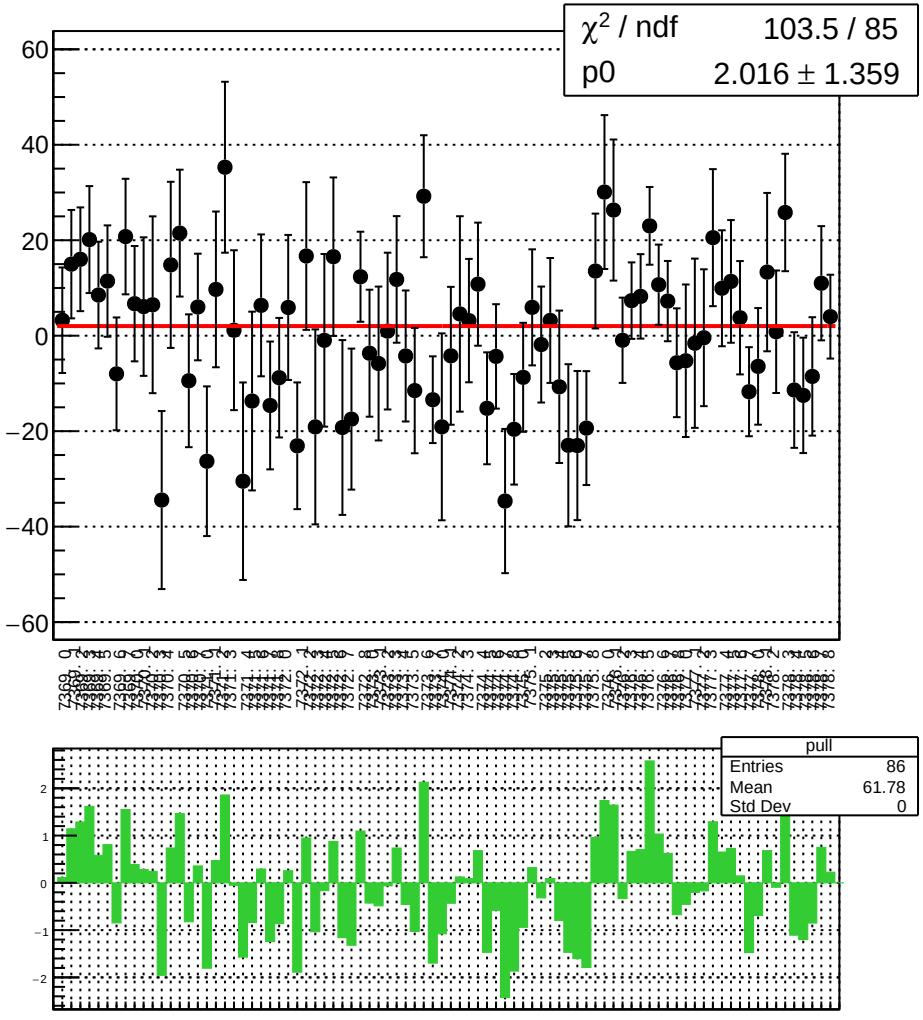
asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run

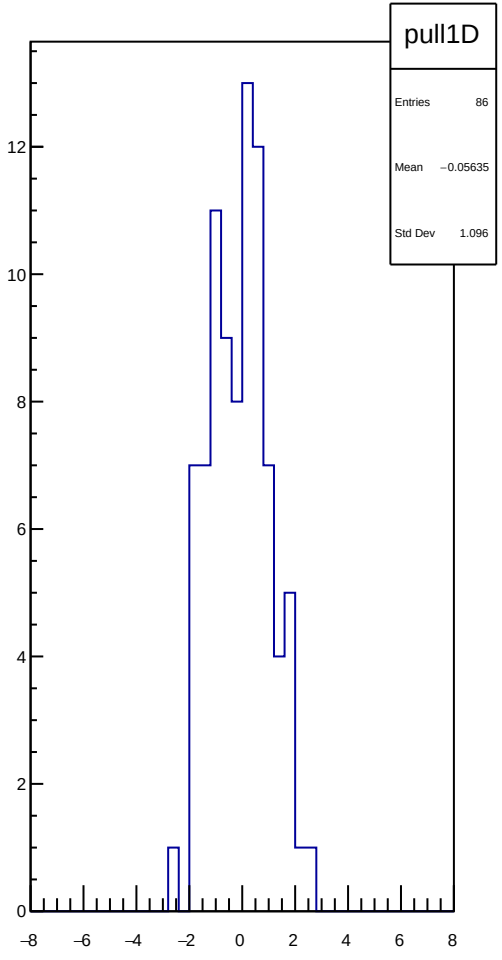


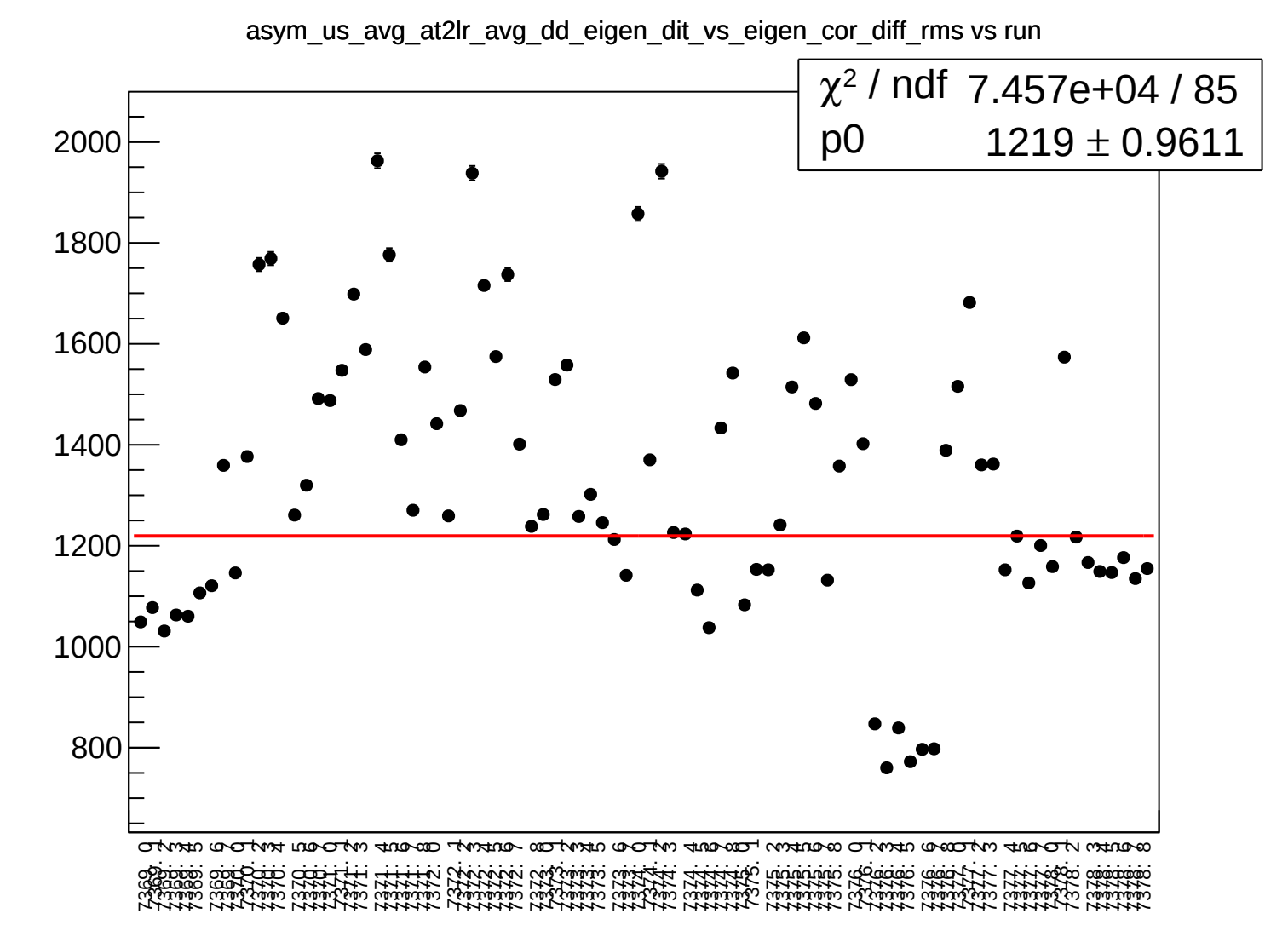


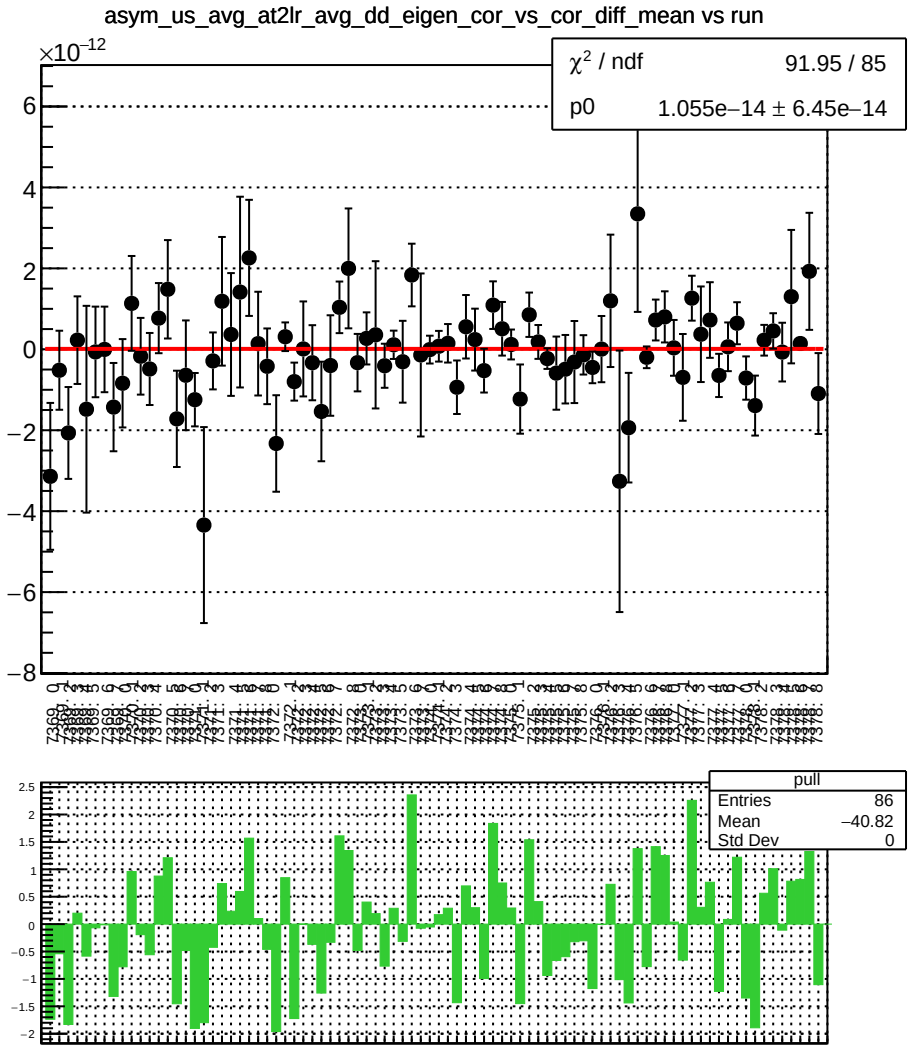

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.457e+04 / 85
p0 1219 ± 0.9611
2000
1800
1600
1400
1200
1000
800

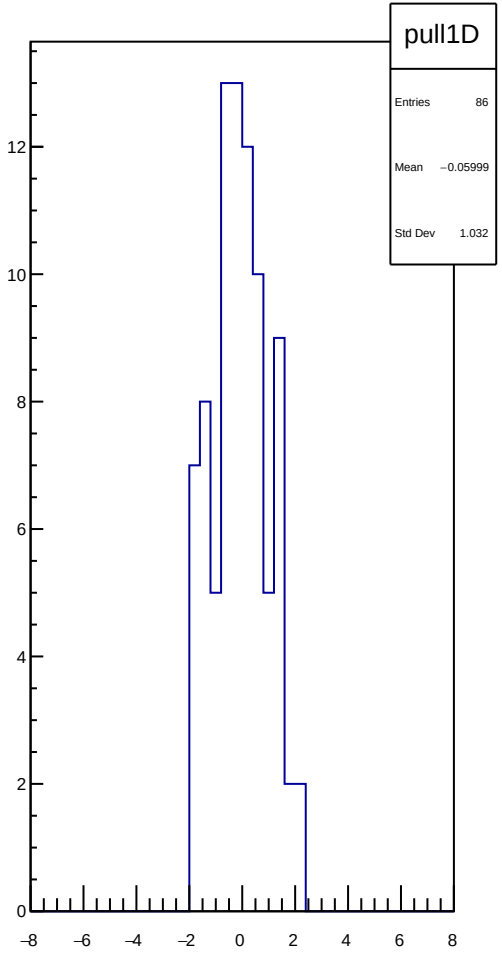
asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

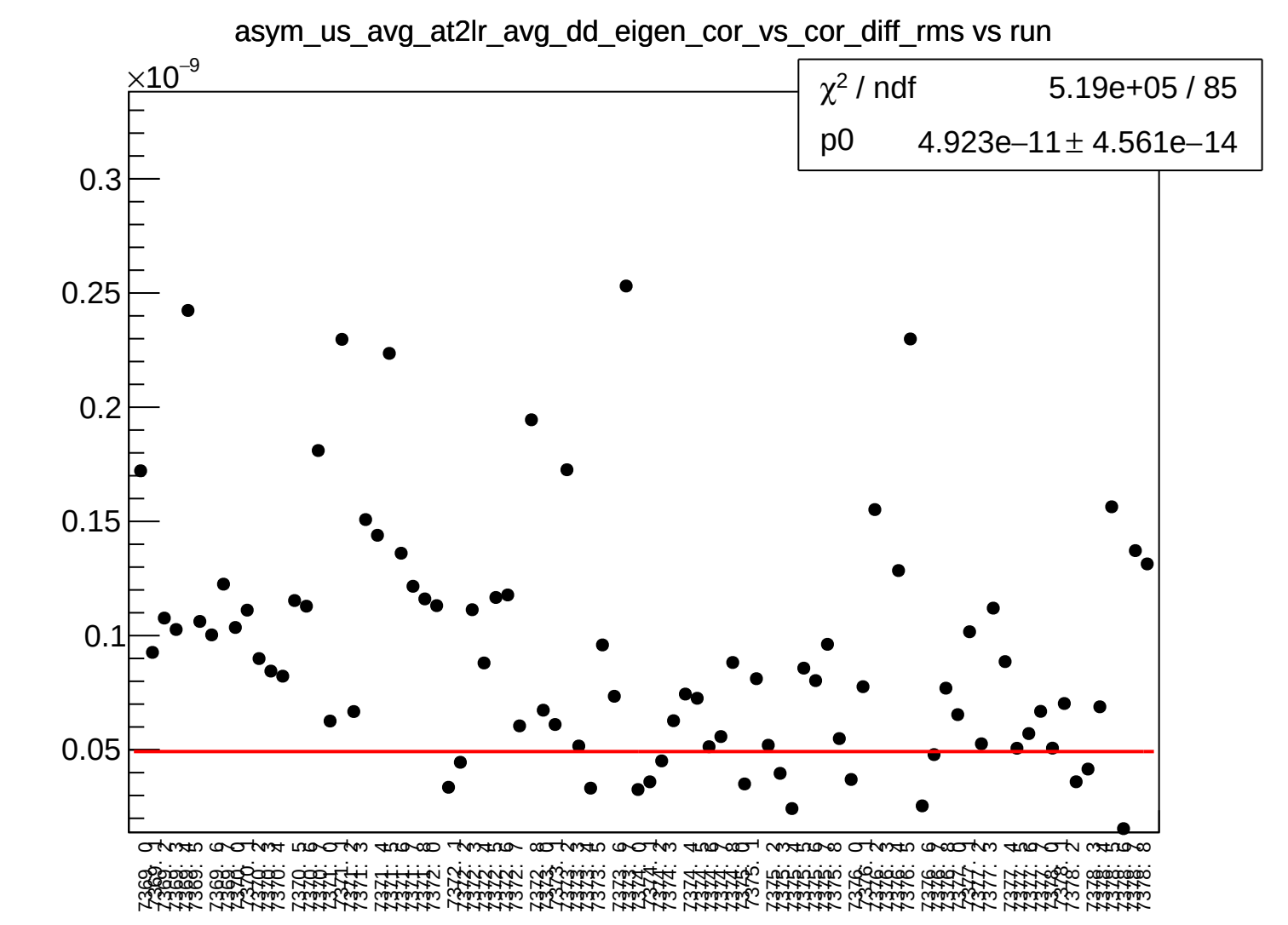


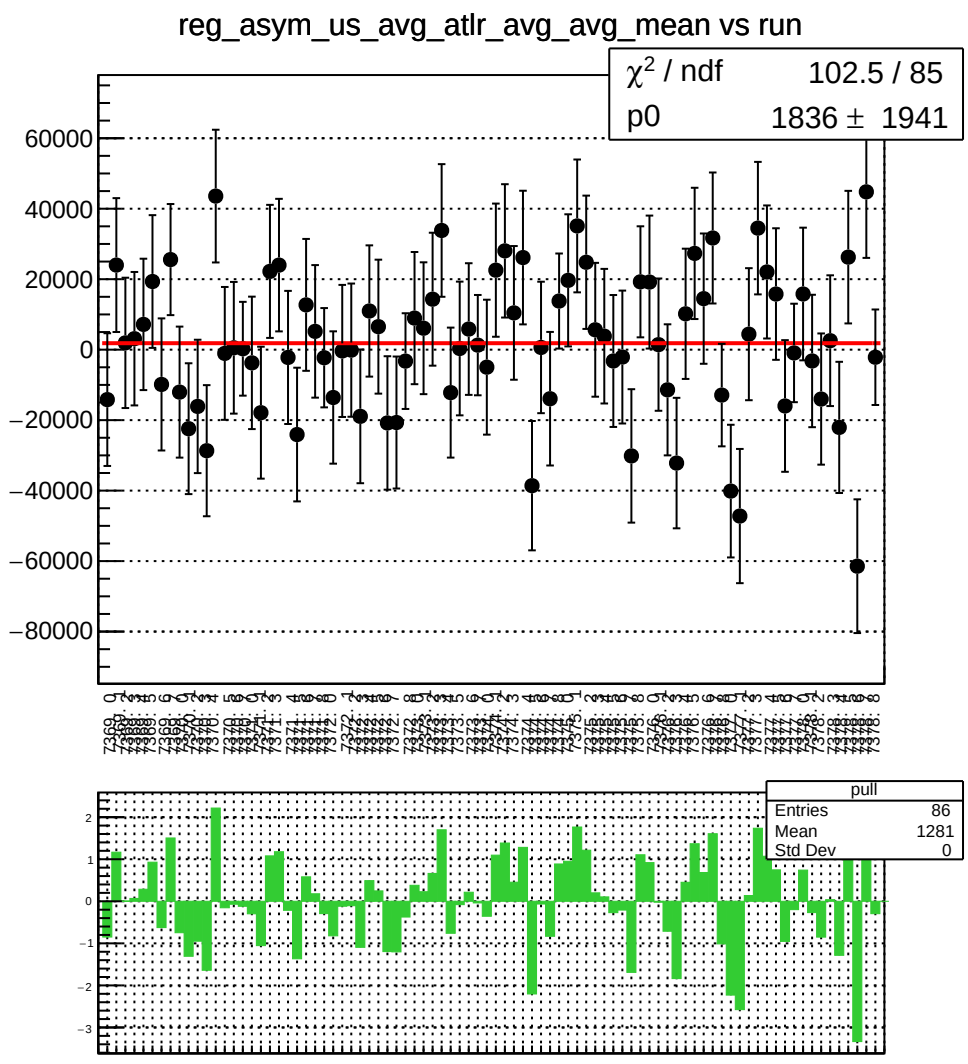


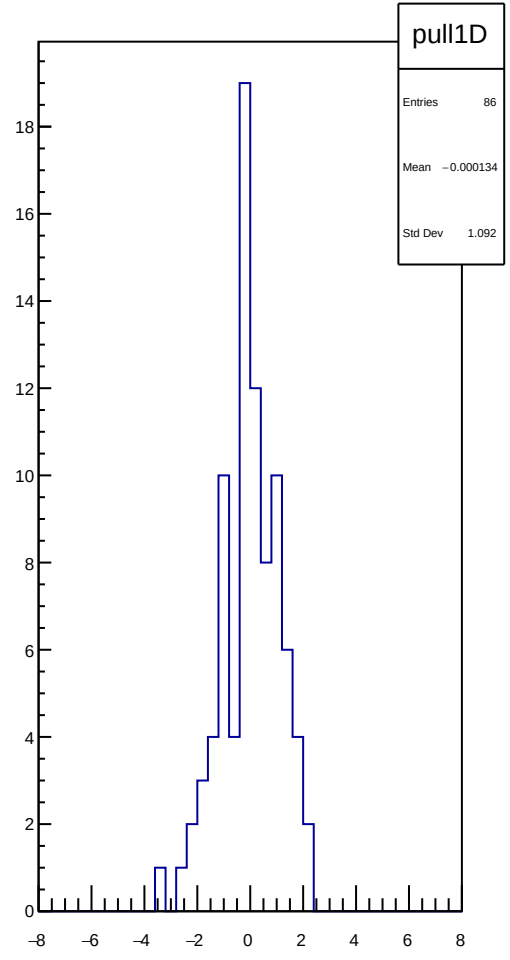

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.457e+04 / 85
p0 1219 ± 0.9611
2000
1800
1600
1400
1200
1000
800

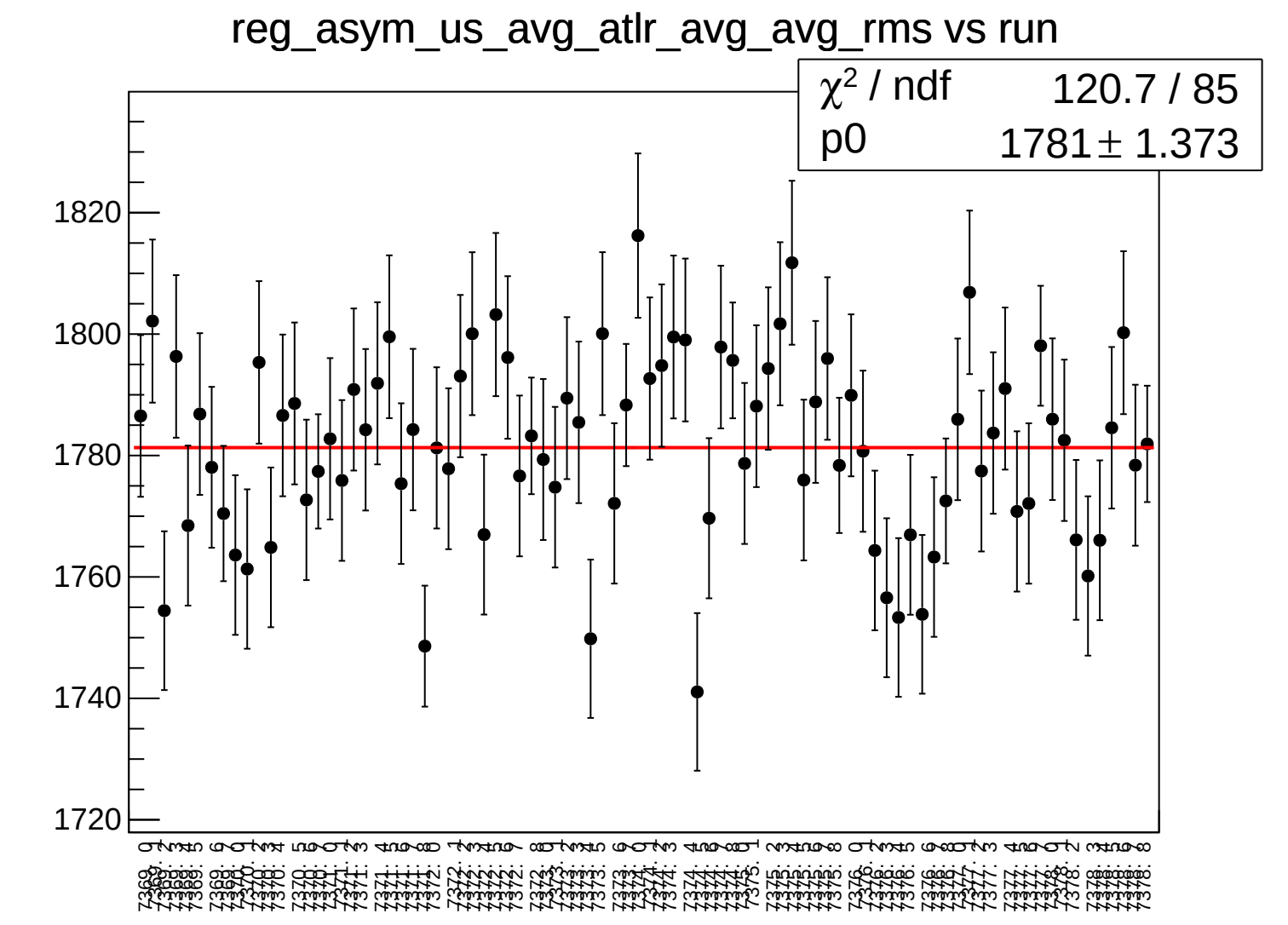

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.95 / 85
p0 1.055e−14 ± 6.45e−14
pull
Entries 86
Mean −40.82
Std Dev 0

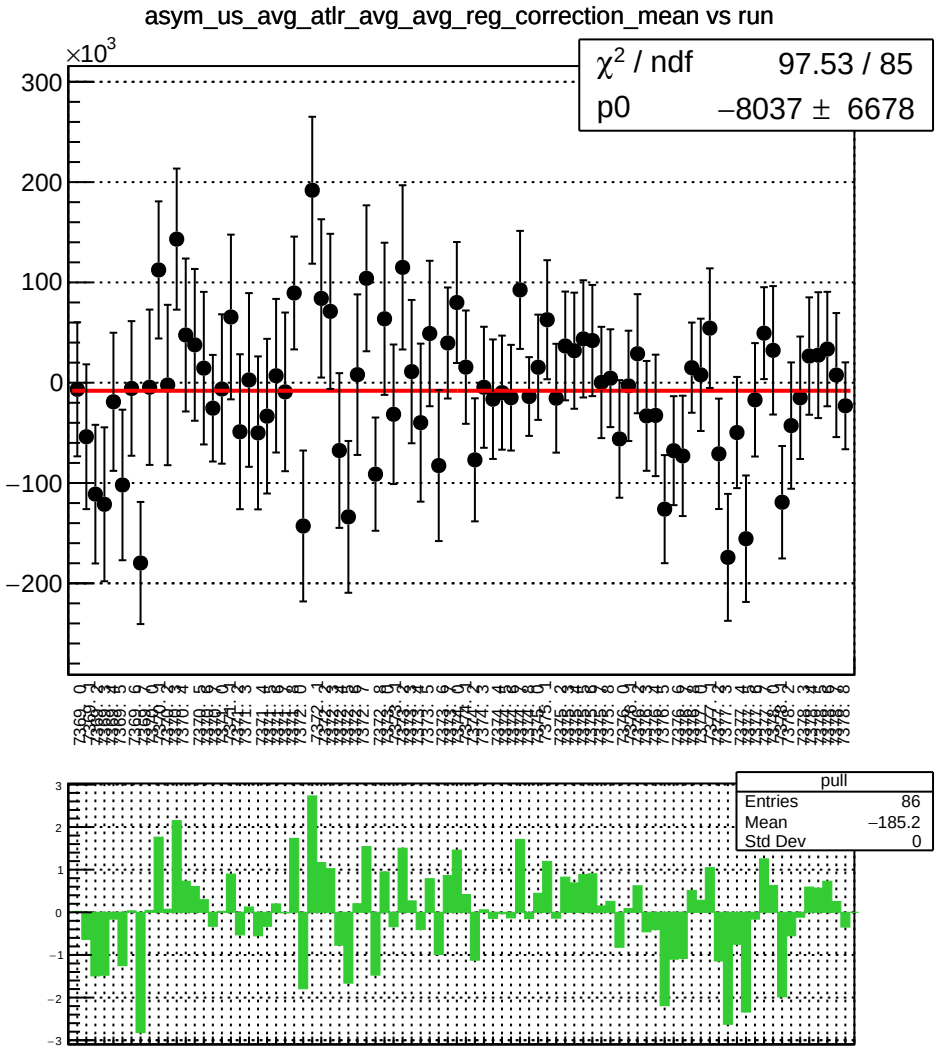

pull1D
Entries 86
Mean −0.05999
Std Dev 1.032

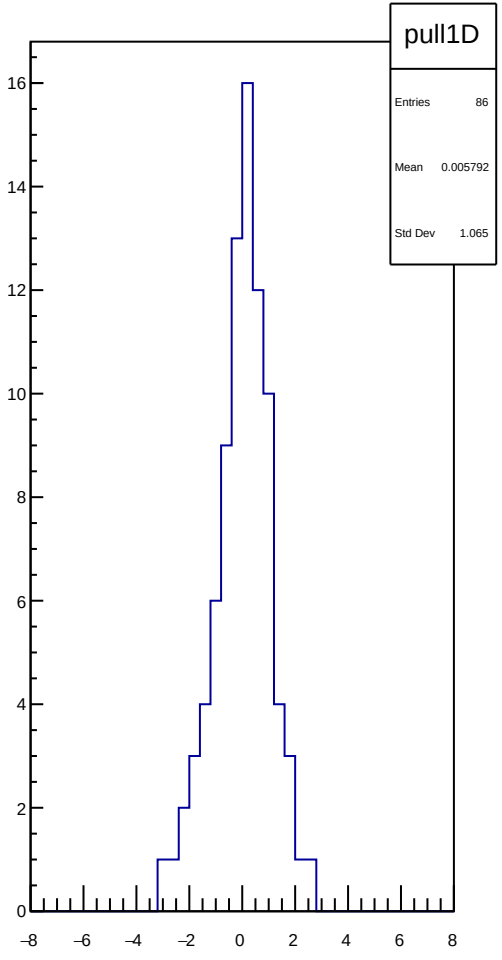

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.19e+05 / 85
p0 4.923e−11 ± 4.561e−14
0.3
0.25
0.2
0.15
0.1
0.05

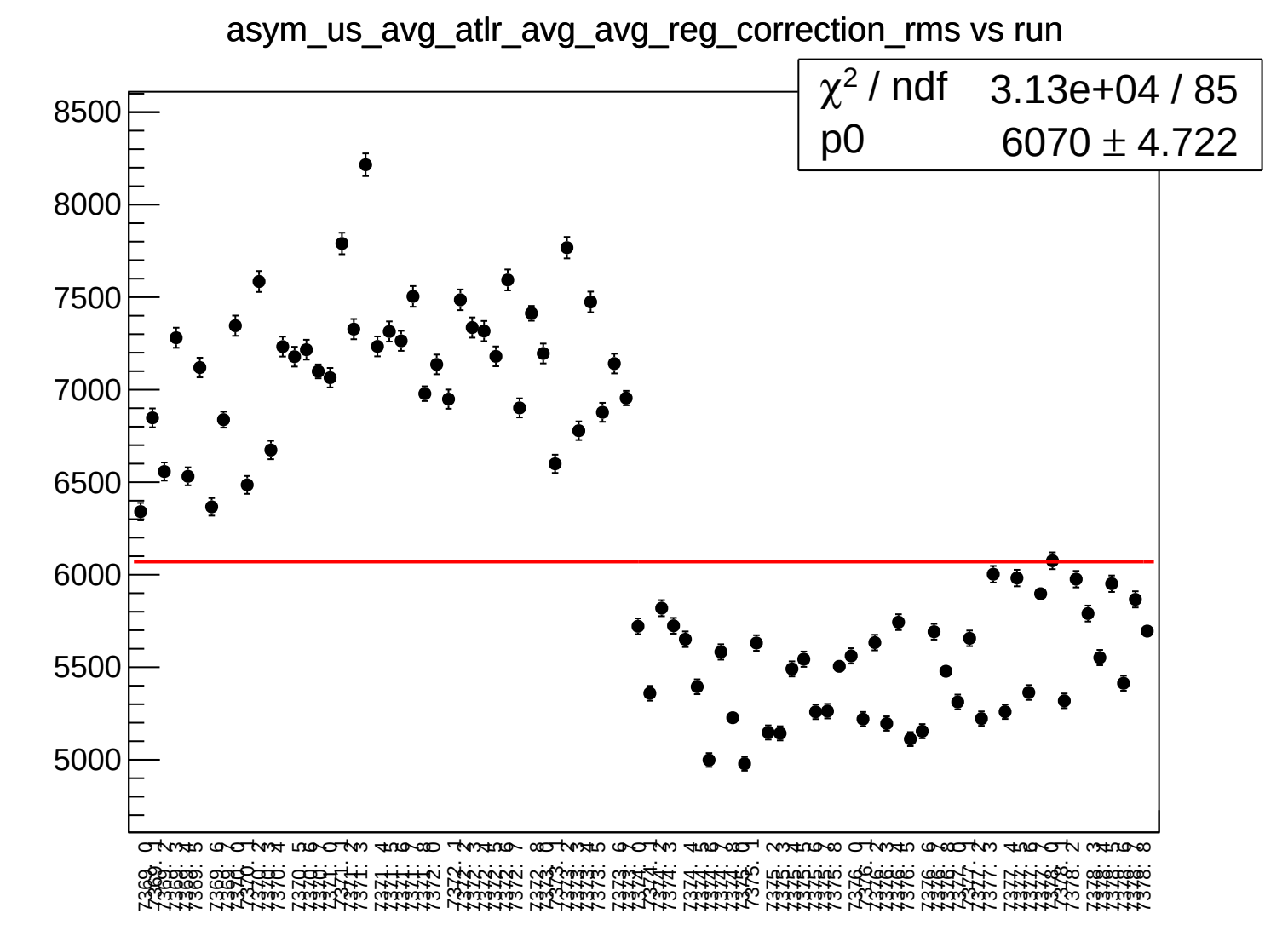

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 102.5 / 85
p0 1836 ± 1941
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 1281
Std Dev 0
2
1
0
−1
−2
−3

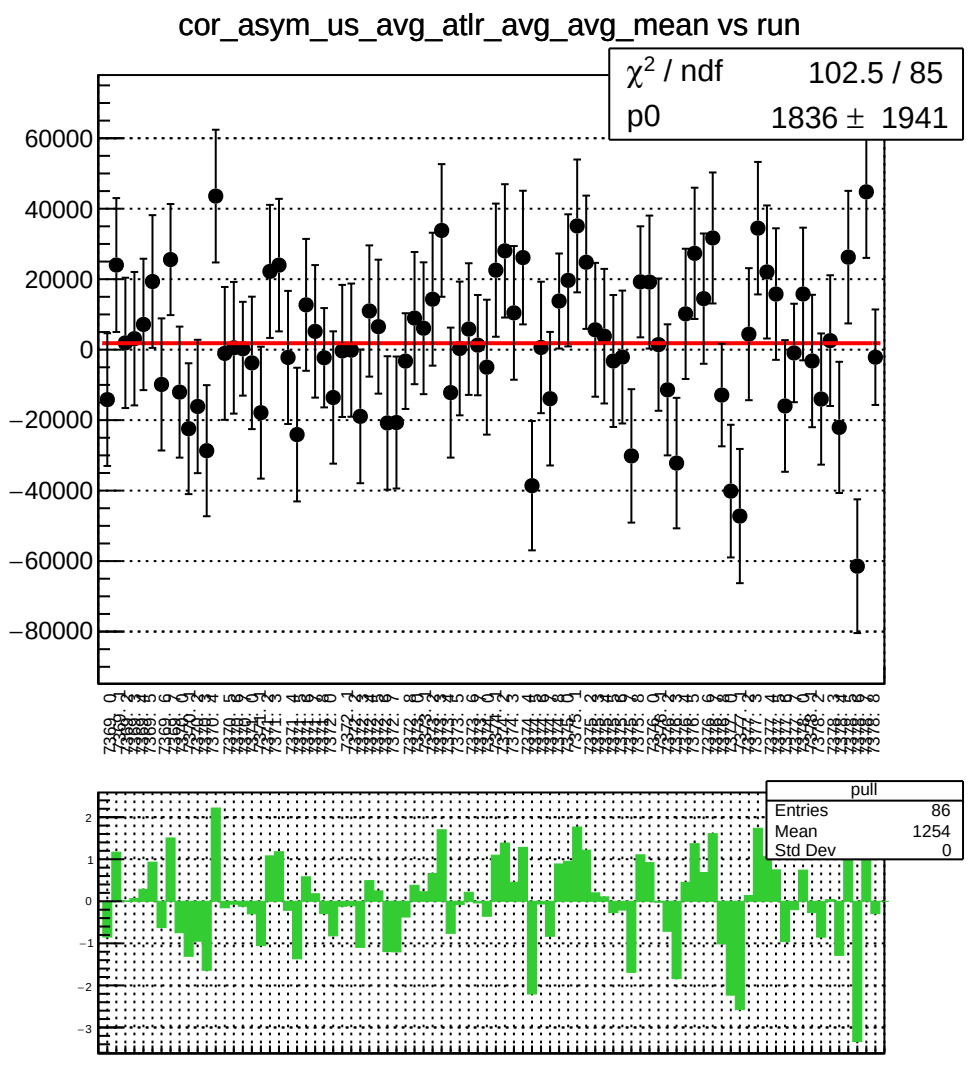

pull1D
Entries 86
Mean −0.000134
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

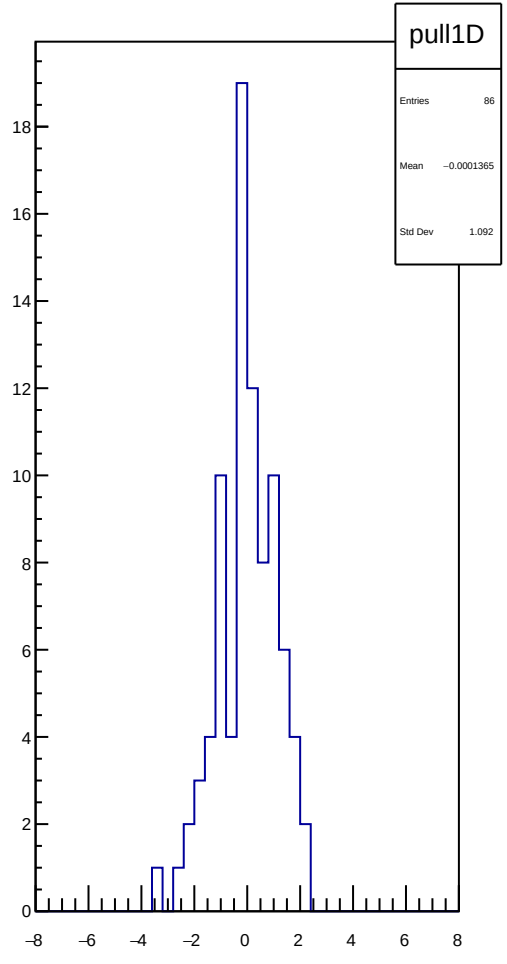

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 120.7 / 85
p0 1781 ± 1.373
1820
1800
1780
1760
1740
1720

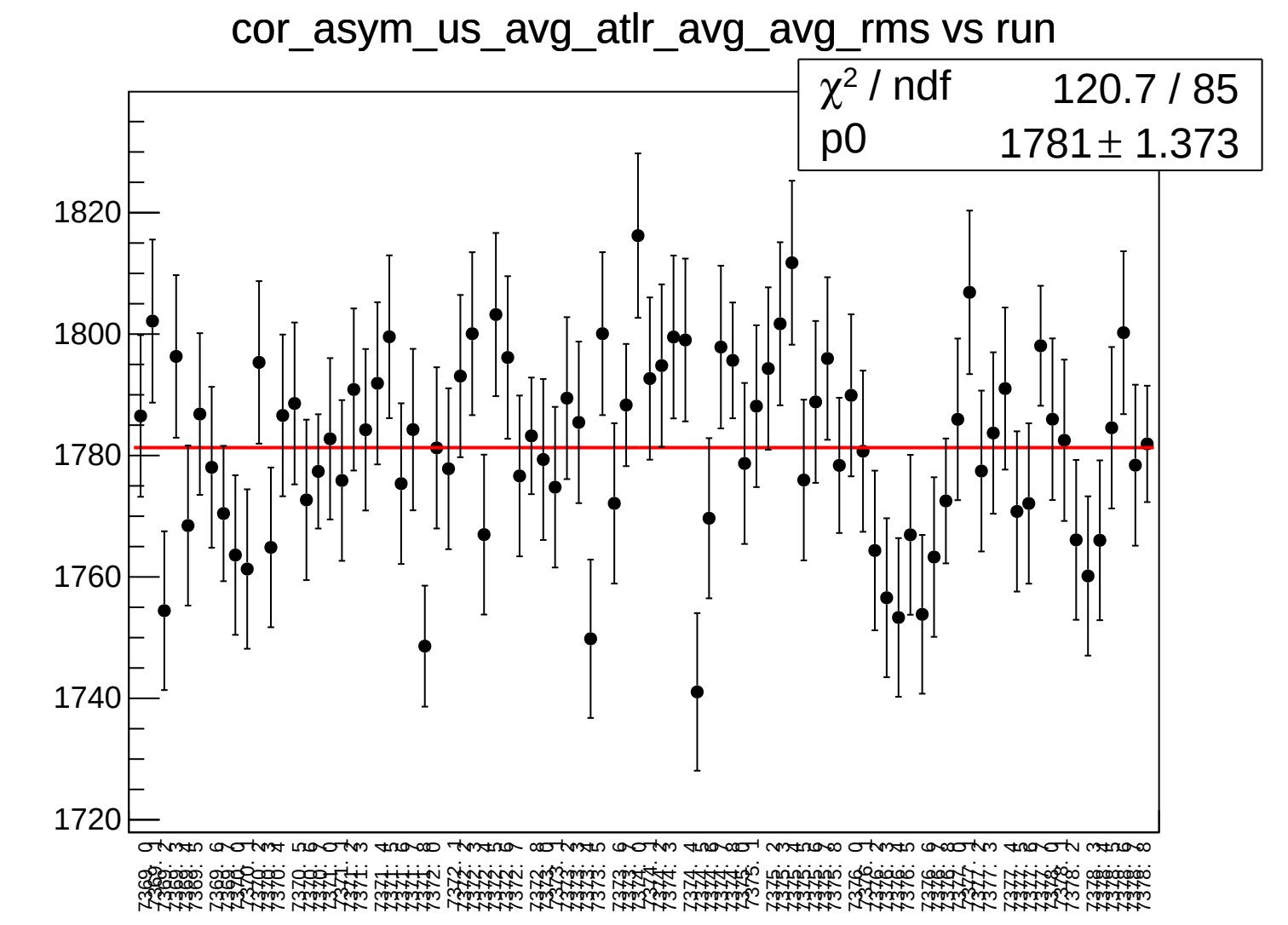

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.53 / 85
p0 −8037 ± 6678
pull
Entries 86
Mean −185.2
Std Dev 0

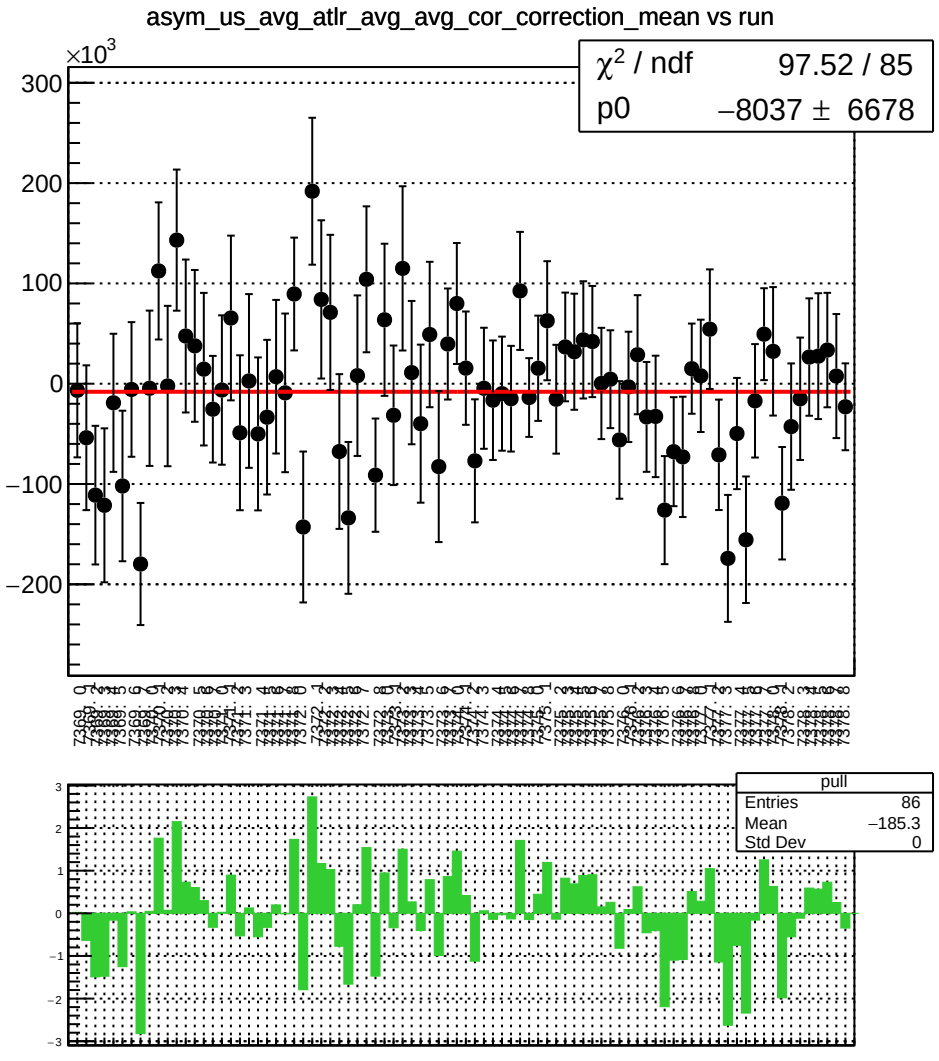

pull1D
Entries 86
Mean 0.005792
Std Dev 1.065

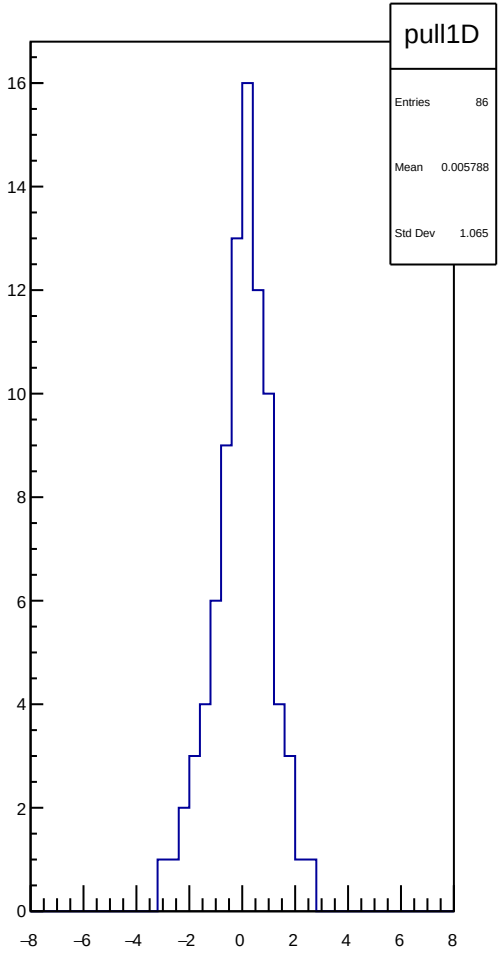

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.13e+04 / 85
p0 6070 ± 4.722
8500
8000
7500
7000
6500
6000
5500
5000

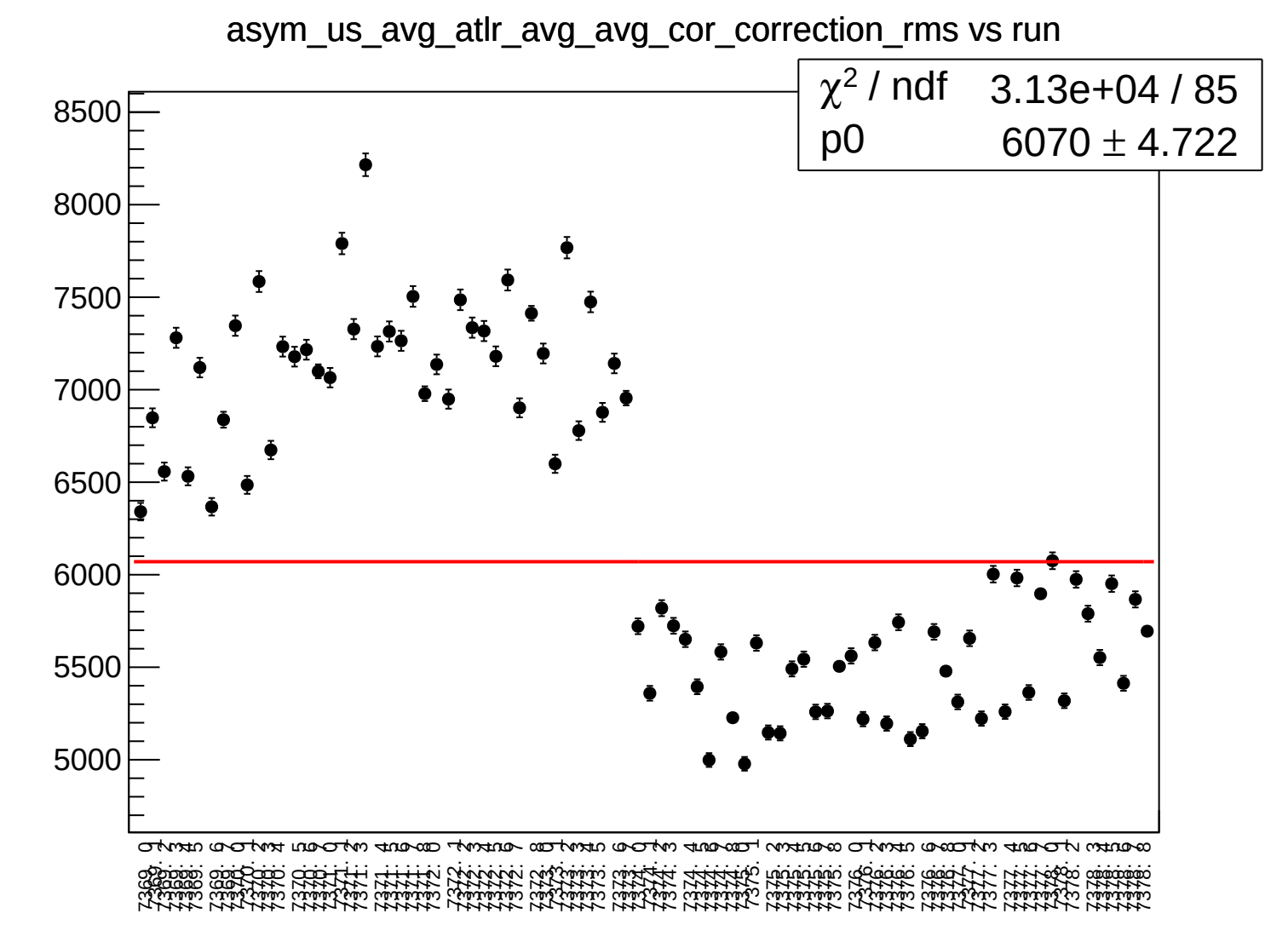

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 102.5 / 85
p0 1836 ± 1941
pull
Entries 86
Mean 1254
Std Dev 0

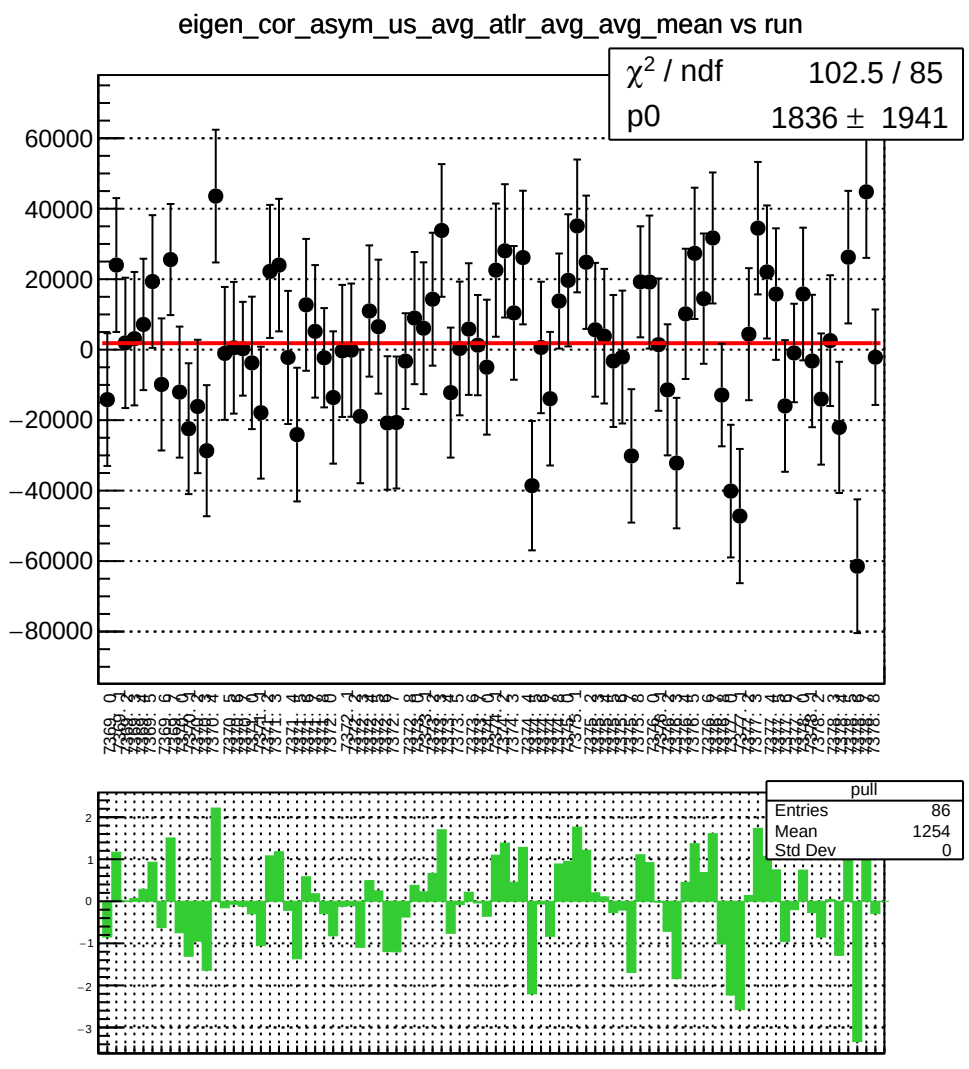

pull1D
Entries 86
Mean −0.0001365
Std Dev 1.092

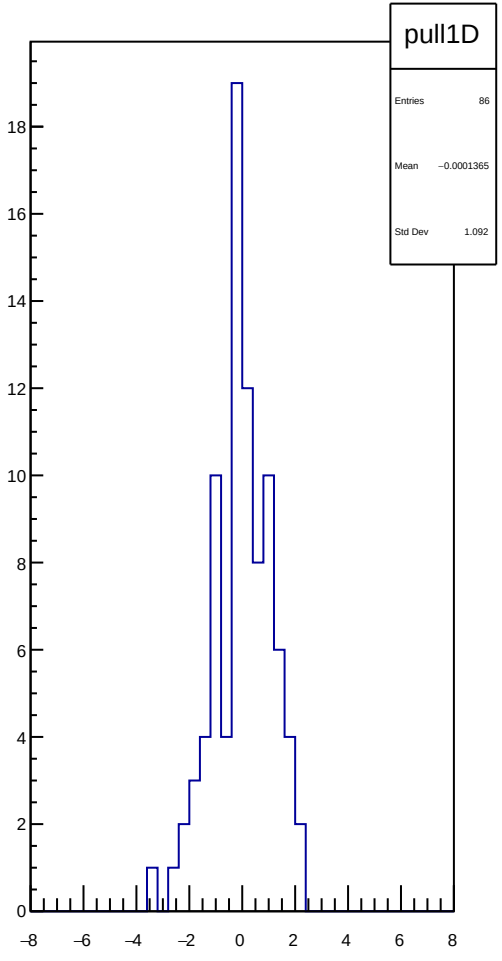

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 120.7 / 85
p0 1781 ± 1.373
1820
1800
1780
1760
1740
1720

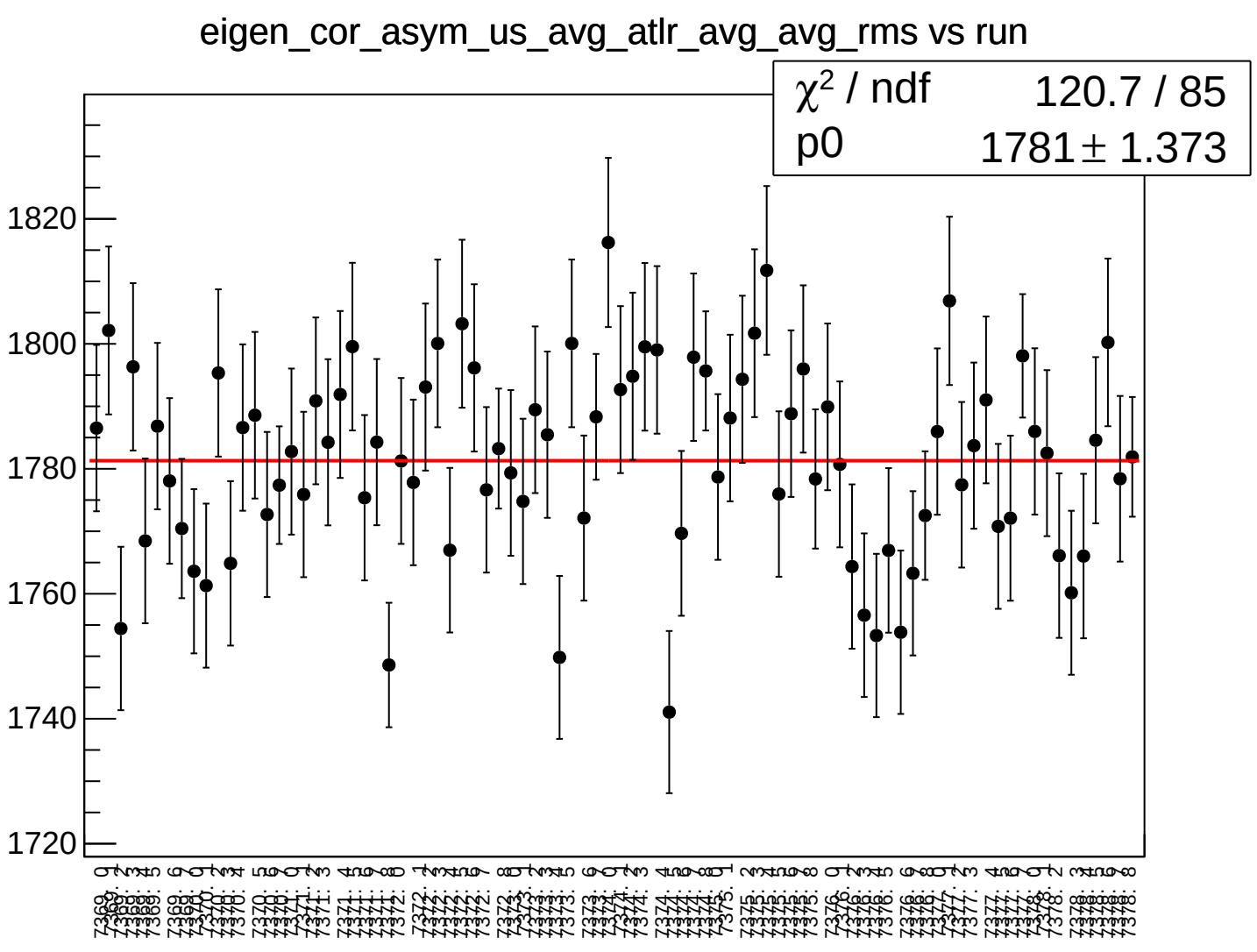

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.52 / 85
p0 −8037 ± 6678
pull
Entries 86
Mean −185.3
Std Dev 0

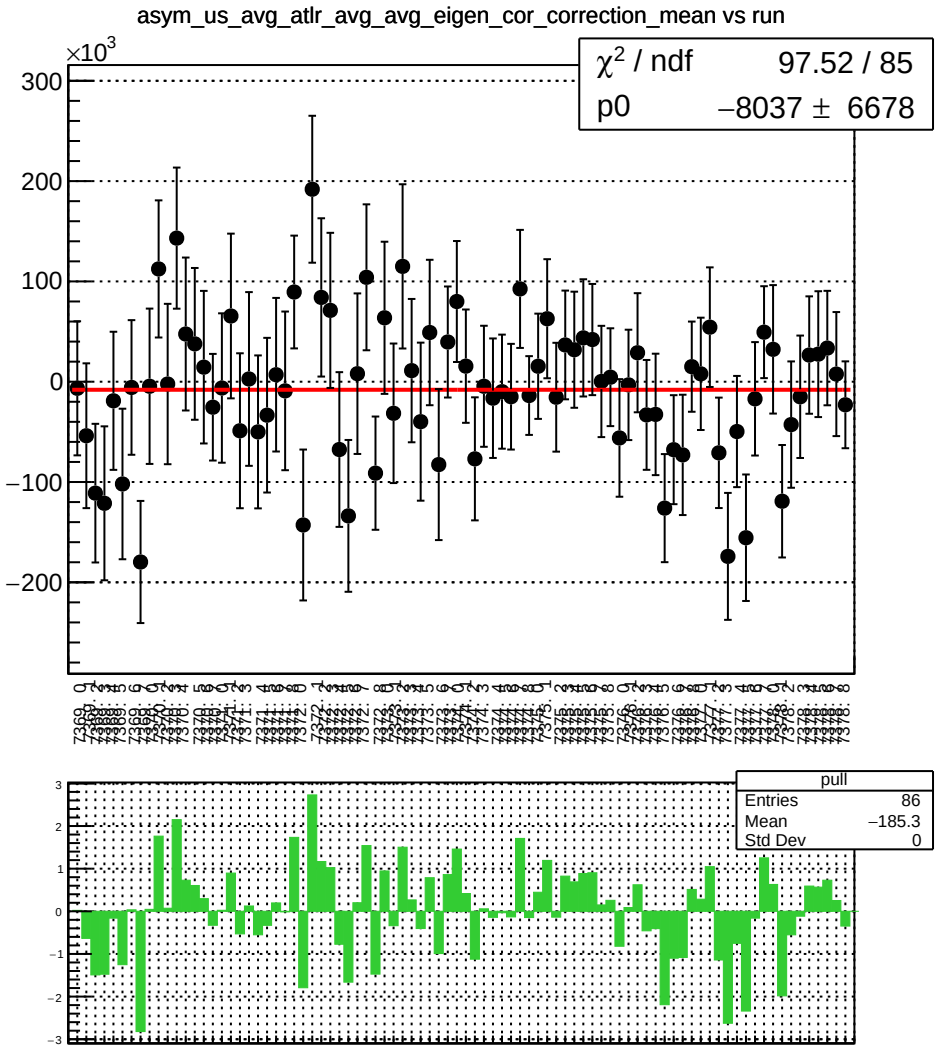

pull1D
Entries 86
Mean 0.005788
Std Dev 1.065

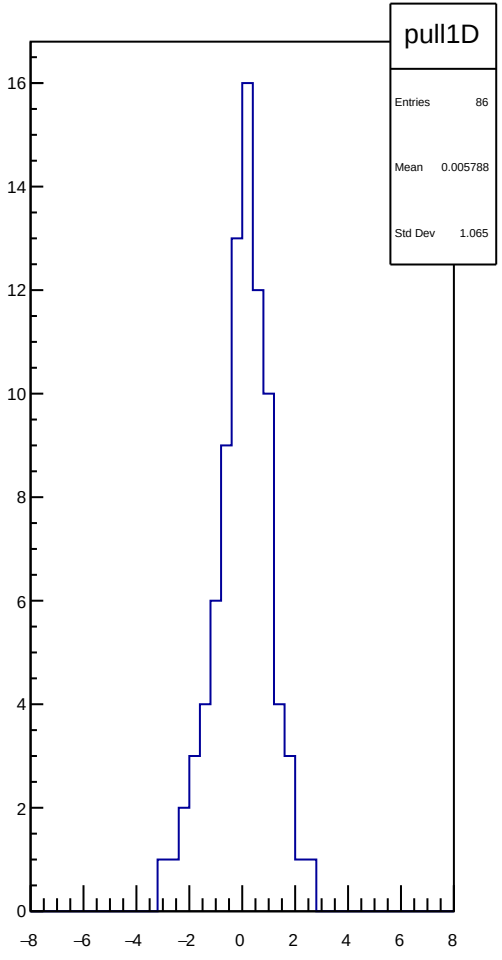

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.13e+04 / 85
p0 6070 ± 4.722
8500
8000
7500
7000
6500
6000
5500
5000

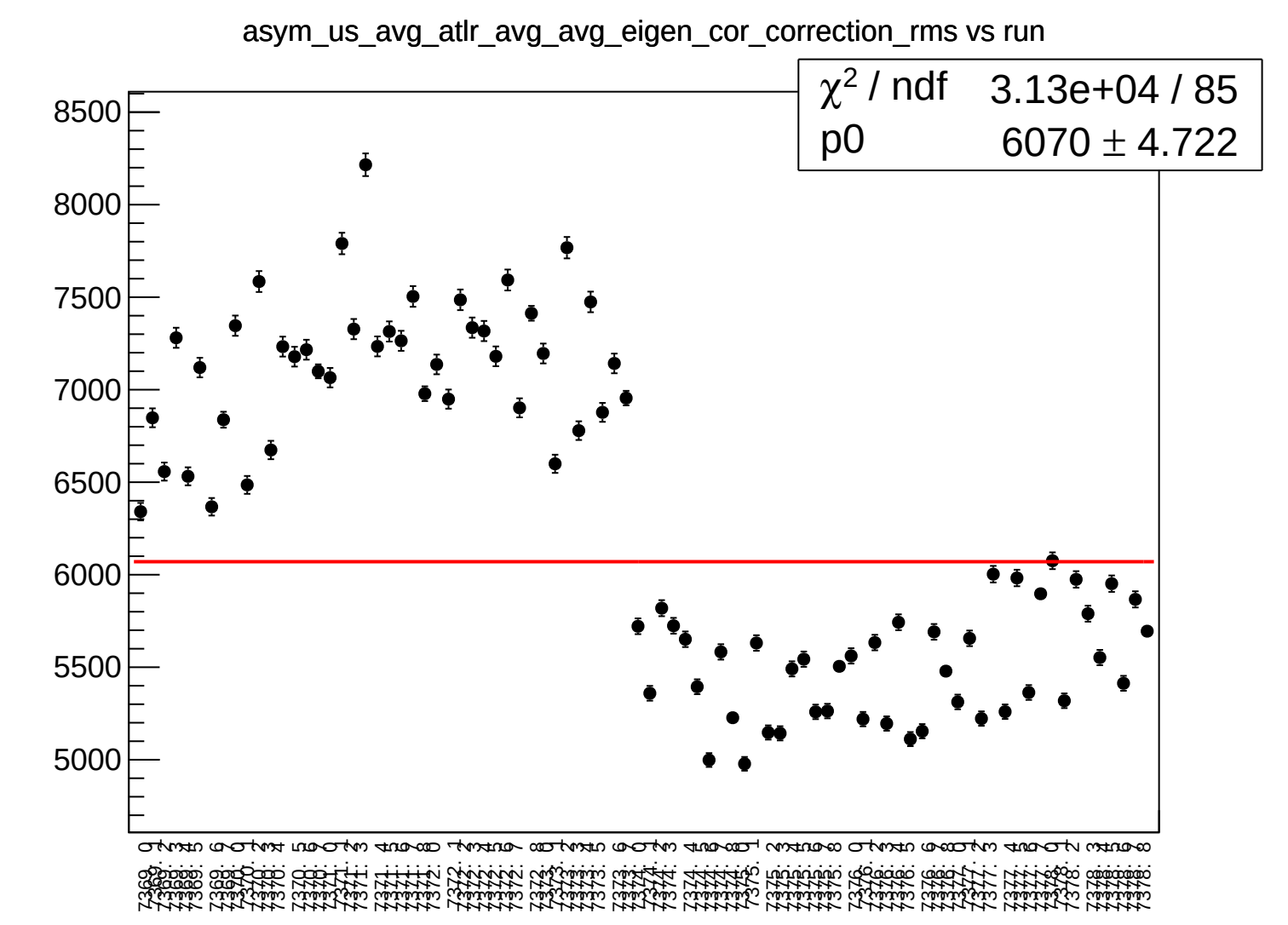

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 102.5 / 85
p0 1836 ± 1941
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 1254
Std Dev 0
2
1
0
−1
−2
−3

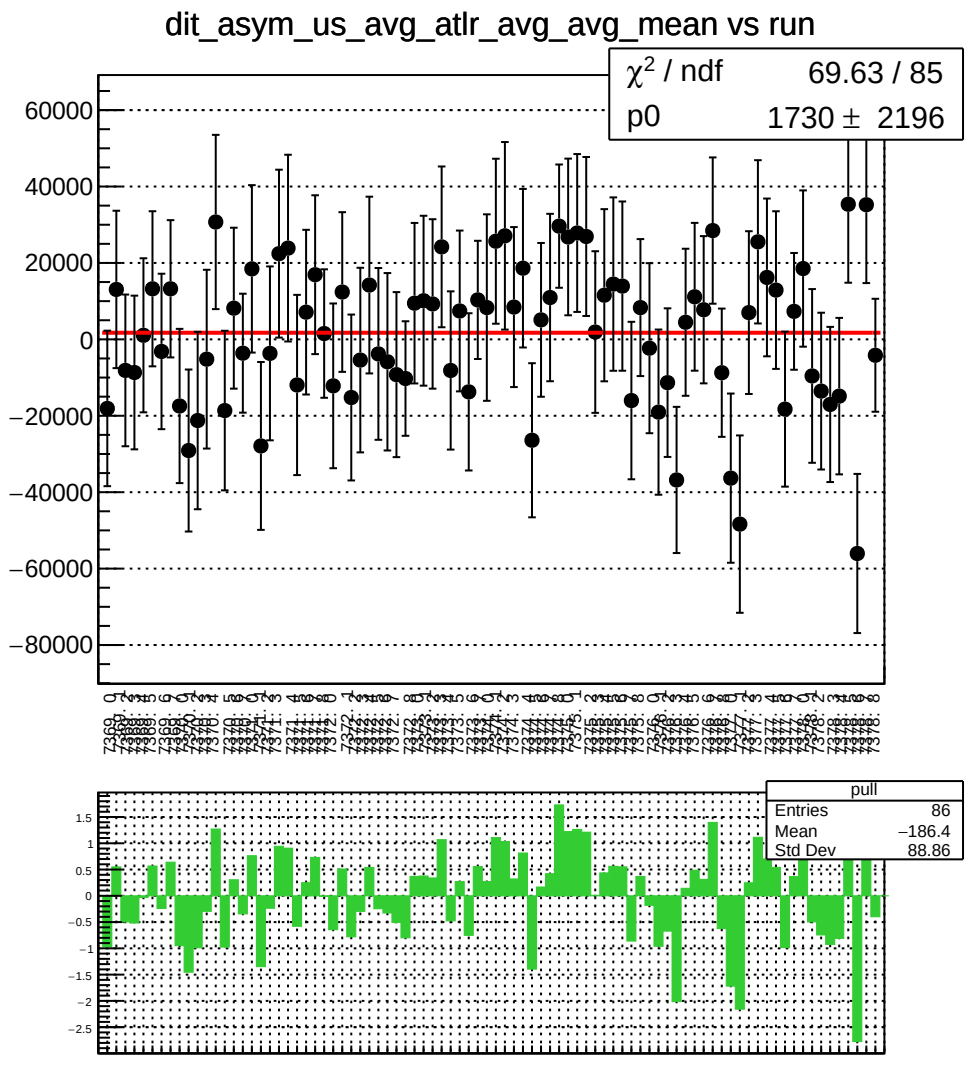

pull1D
Entries 86
Mean −0.0001365
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

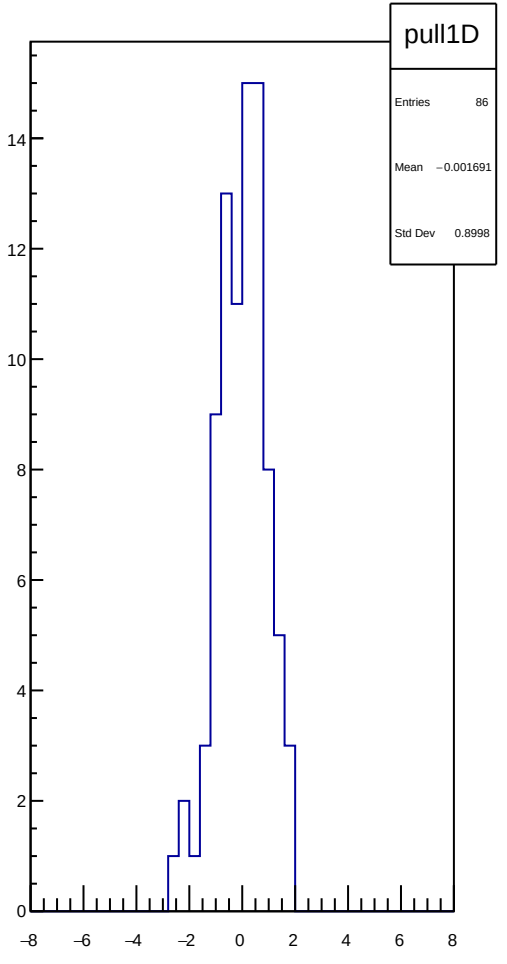

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 120.7 / 85
p0 1781 ± 1.373
1820
1800
1780
1760
1740
1720

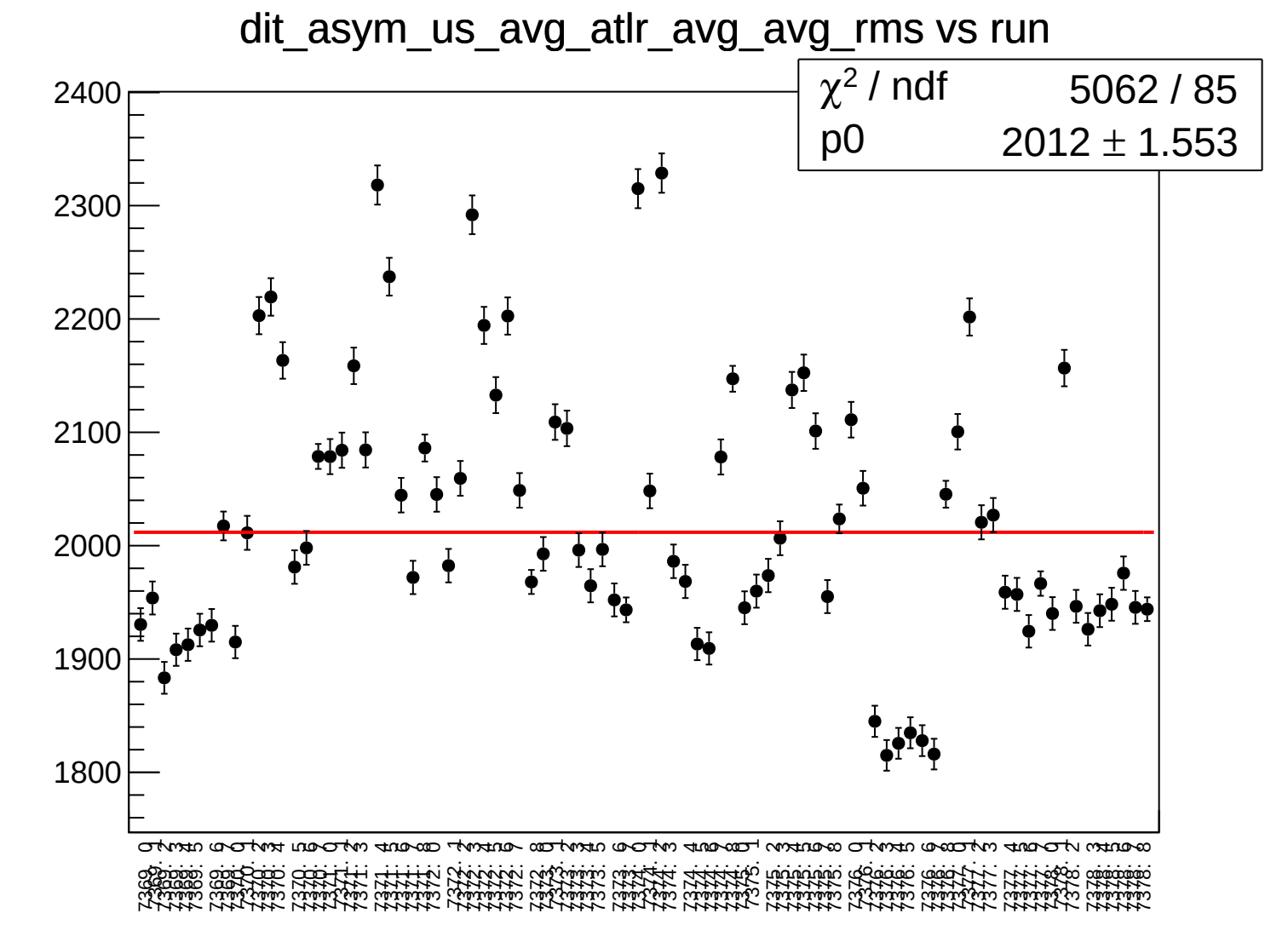

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.52 / 85
p0 −8037 ± 6678
pull
Entries 86
Mean −185.3
Std Dev 0

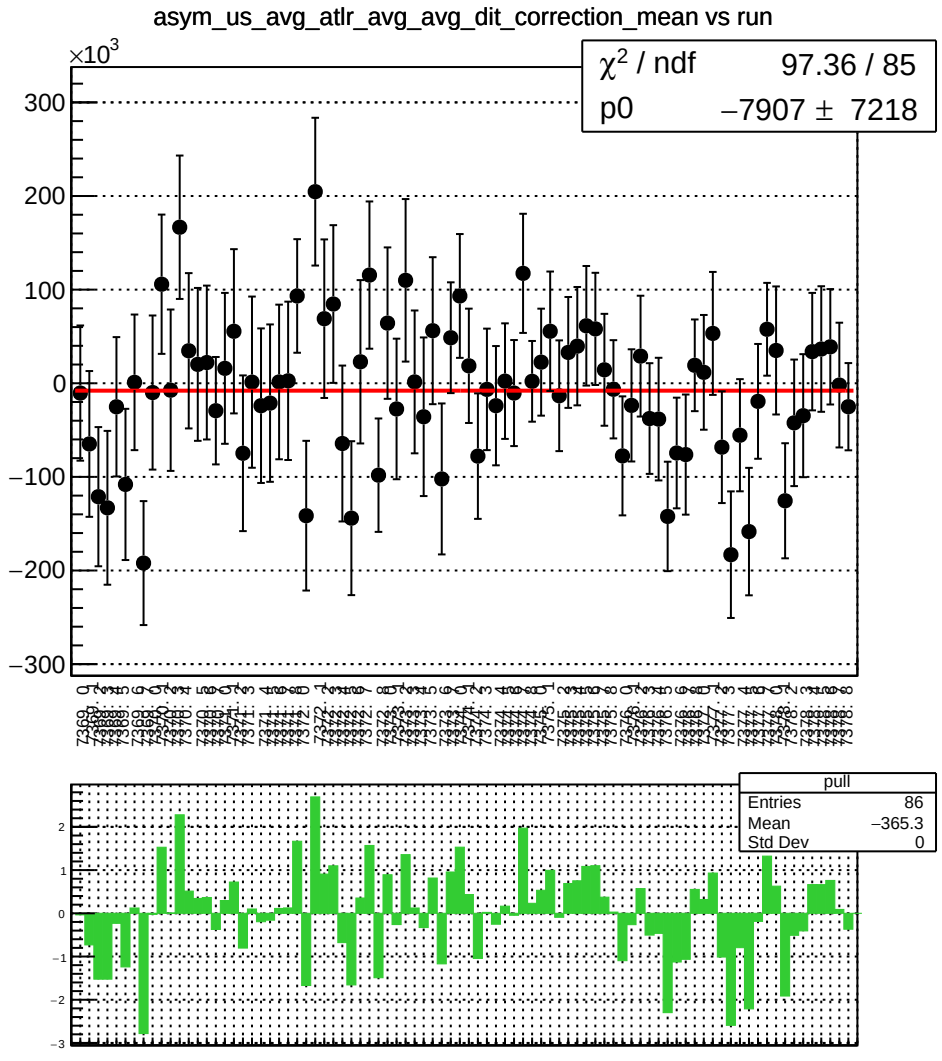

pull1D
Entries 86
Mean 0.005788
Std Dev 1.065

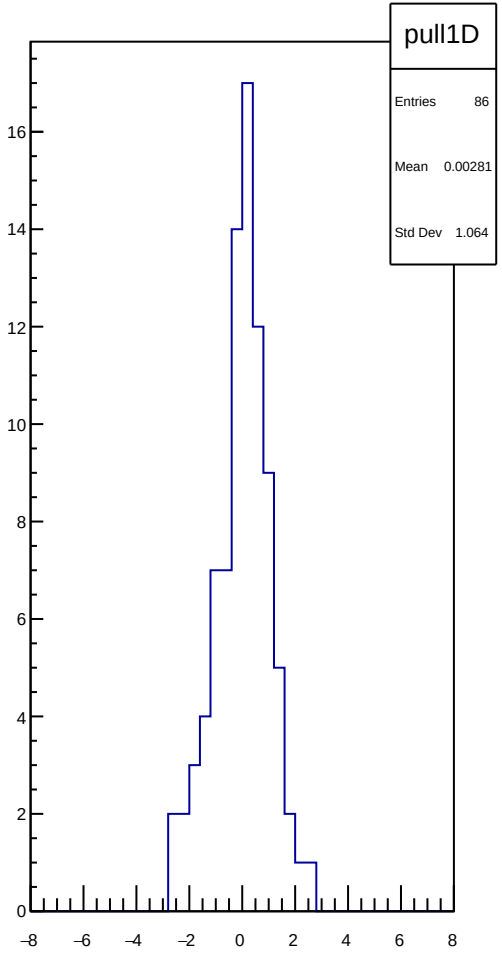

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.13e+04 / 85
p0 6070 ± 4.722
8500
8000
7500
7000
6500
6000
5500
5000

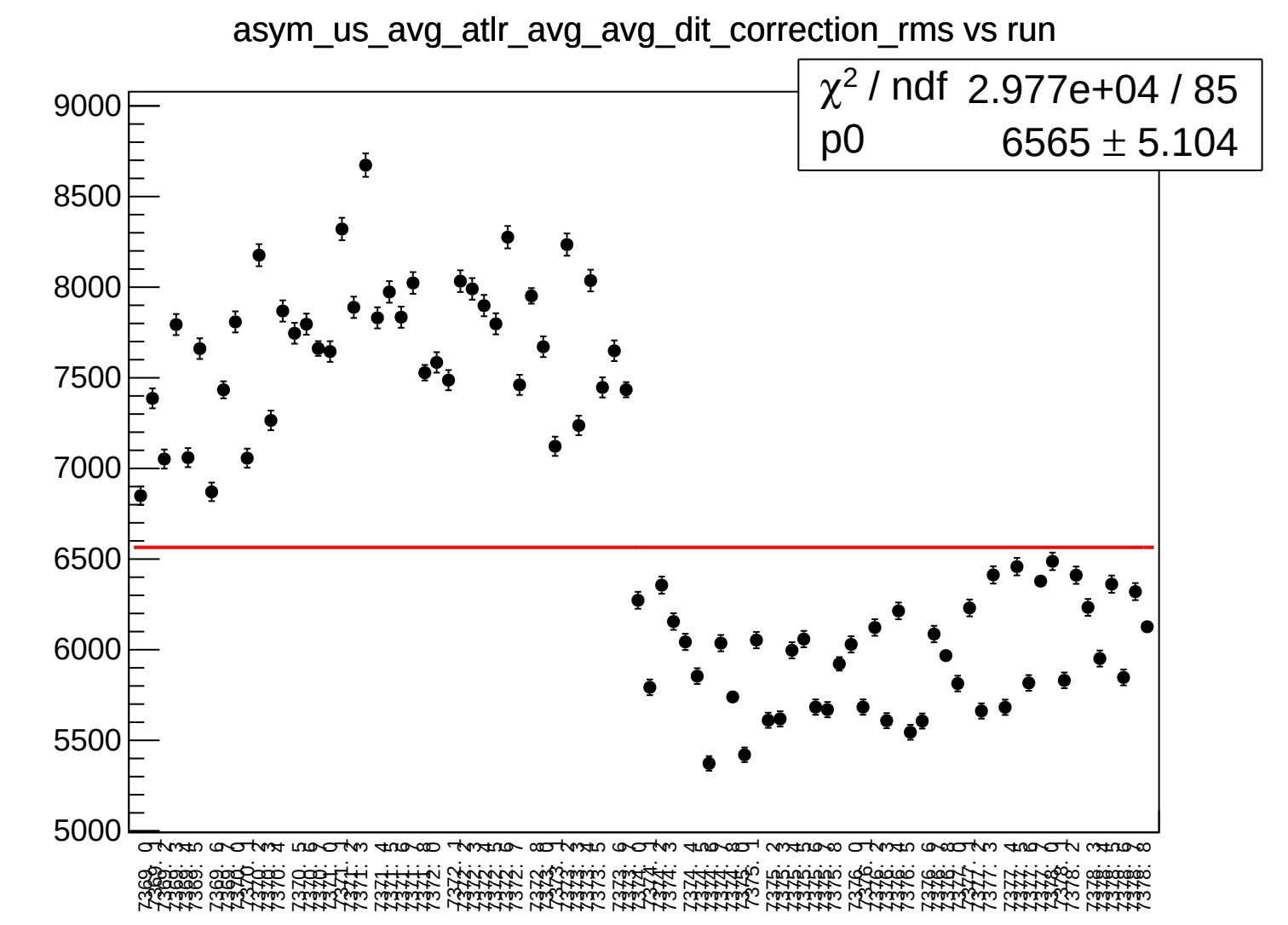

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 69.63 / 85
p0 1730 ± 2196
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −186.4
Std Dev 88.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

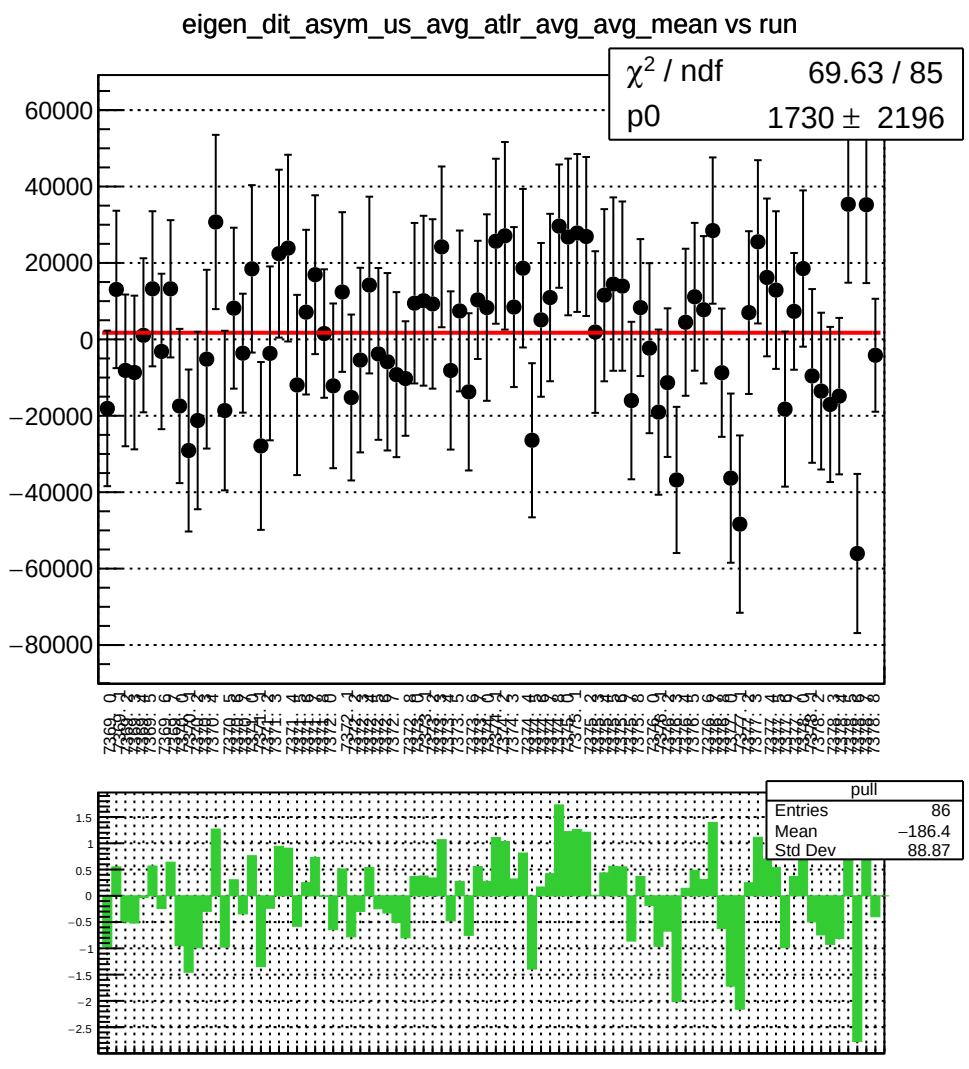

pull1D
Entries 86
Mean −0.001691
Std Dev 0.8998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

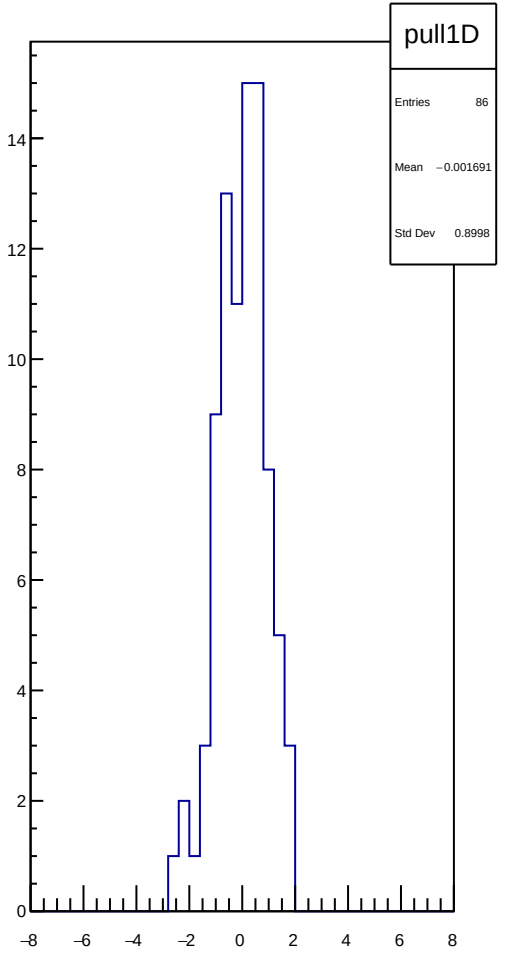

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 5062 / 85
p0 2012 ± 1.553
2400
2300
2200
2100
2000
1900
1800

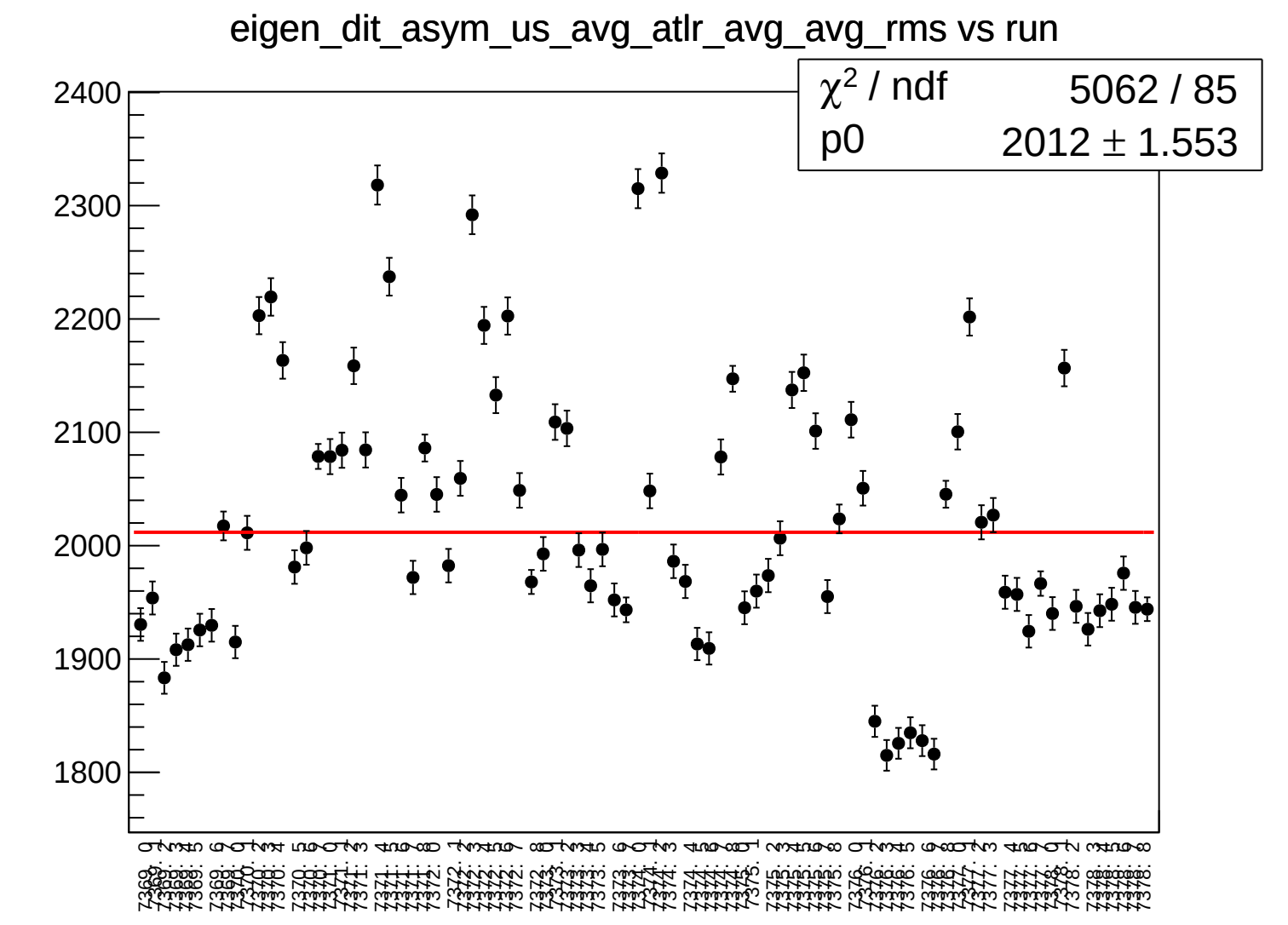

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.36 / 85
p0 −7907 ± 7218
pull
Entries 86
Mean −365.3
Std Dev 0

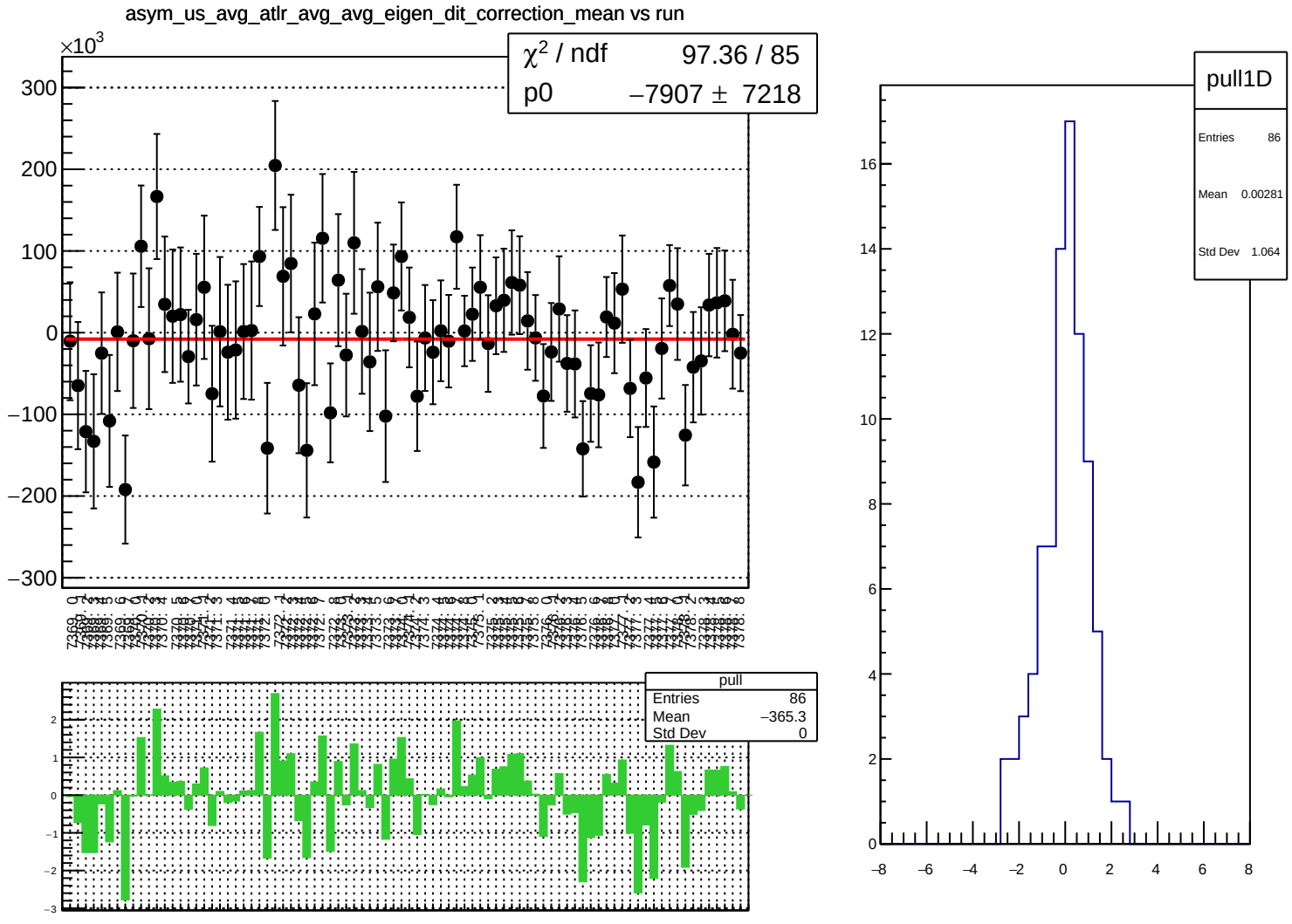

pull1D
Entries 86
Mean 0.00281
Std Dev 1.064

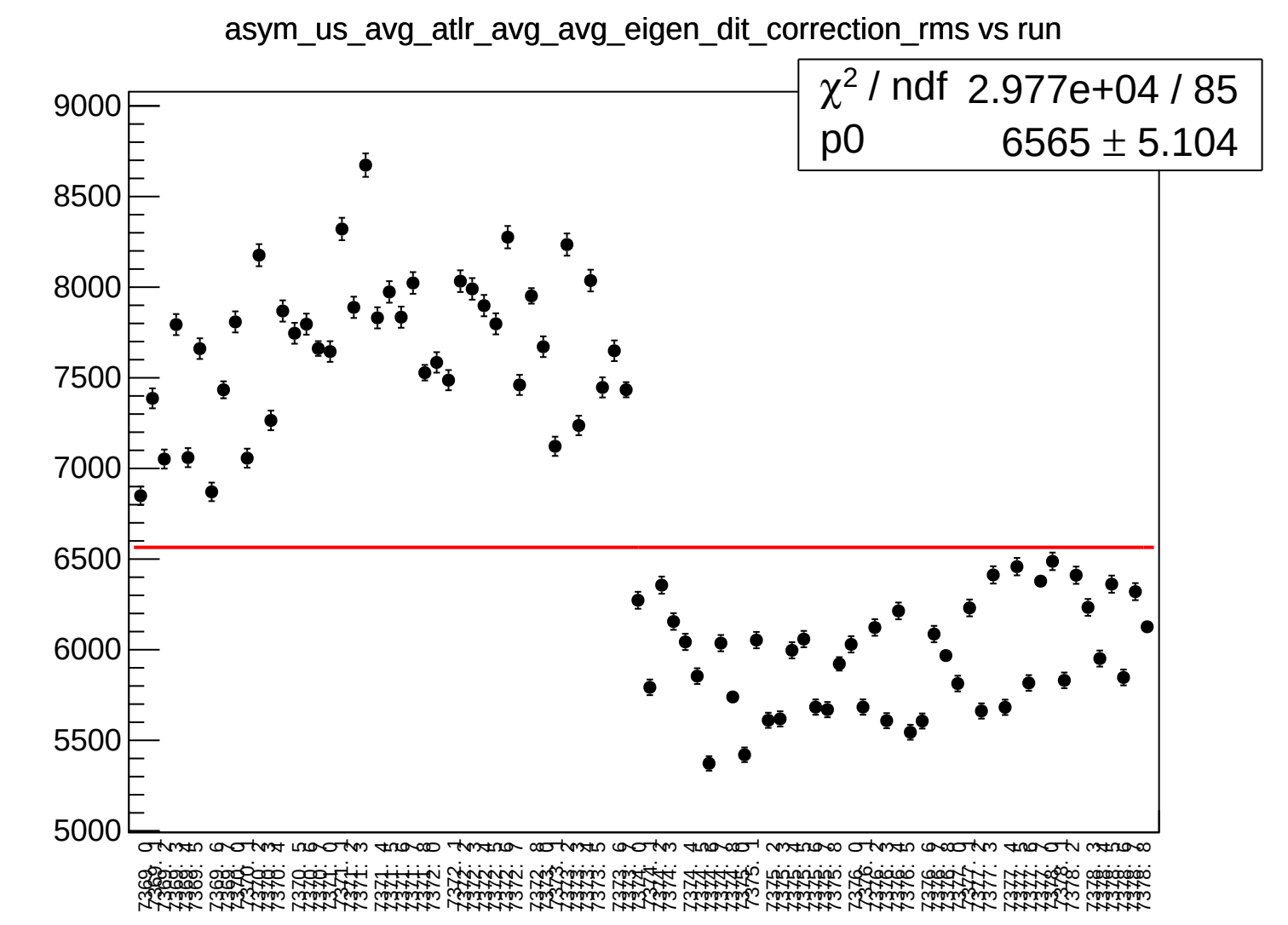

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.977e+04 / 85
p0 6565 ± 5.104
9000
8500
8000
7500
7000
6500
6000
5500
5000

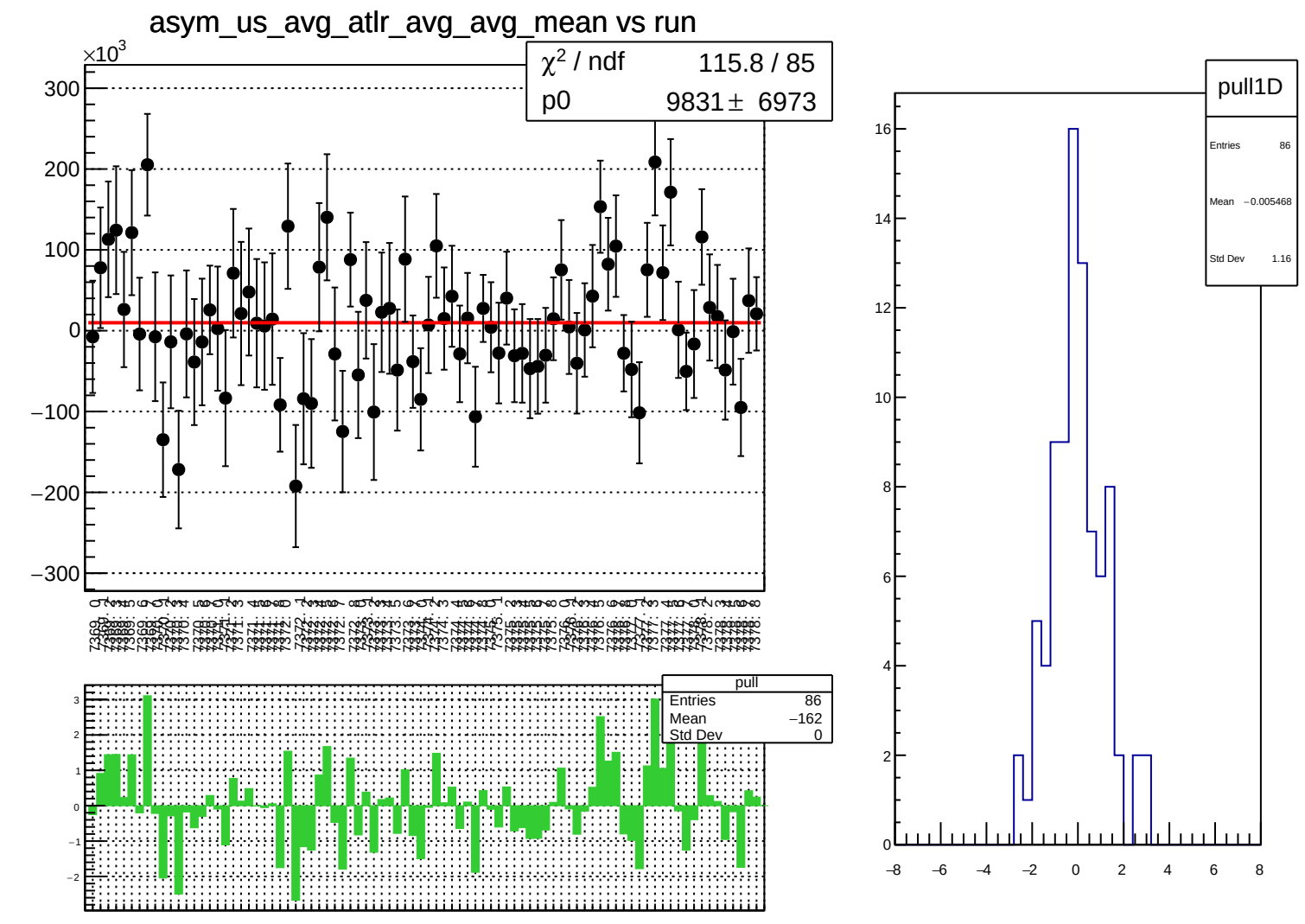

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 69.63 / 85
p0 1730 ± 2196
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −186.4
Std Dev 88.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

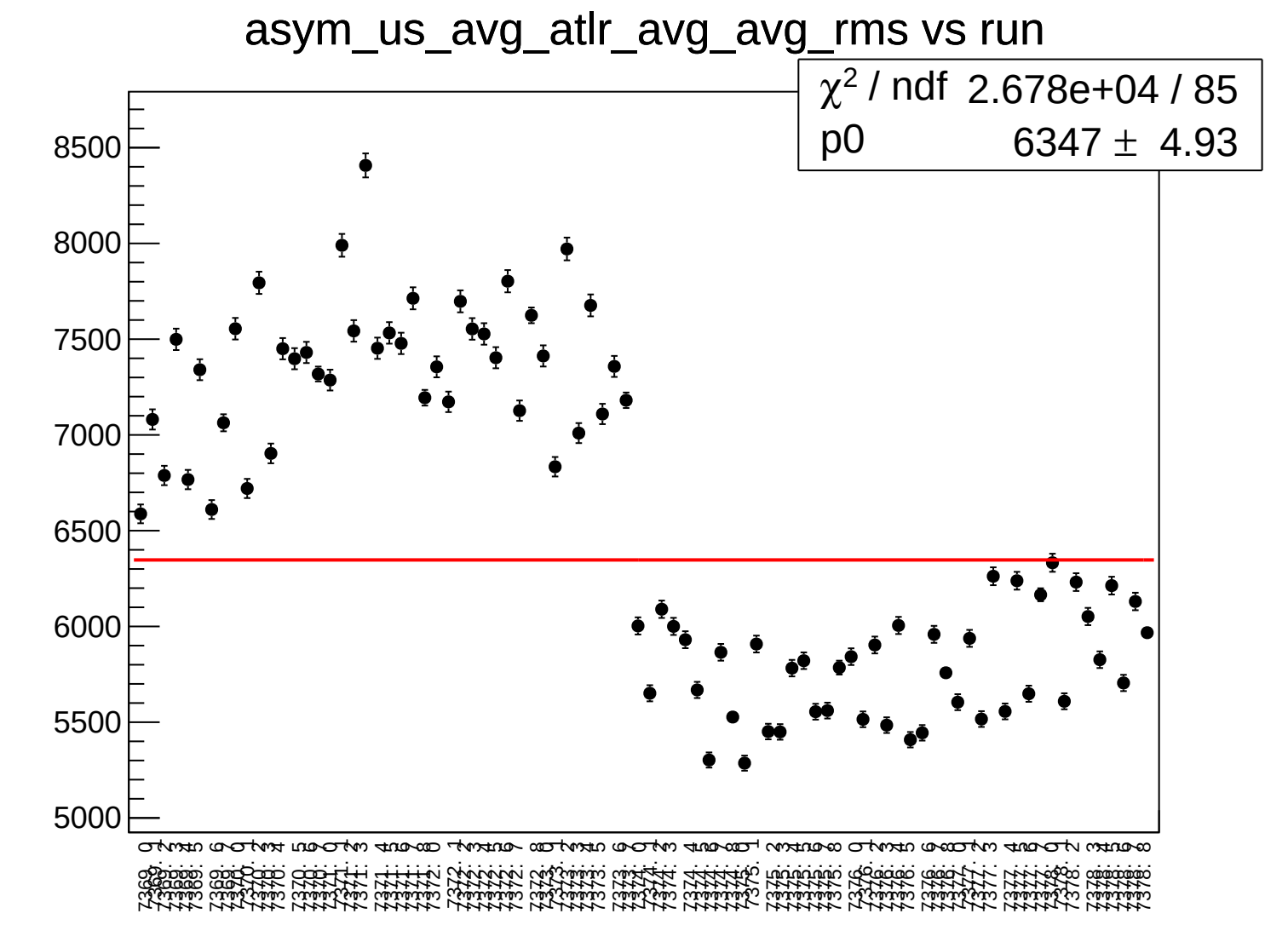

pull1D
Entries 86
Mean −0.001691
Std Dev 0.8998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

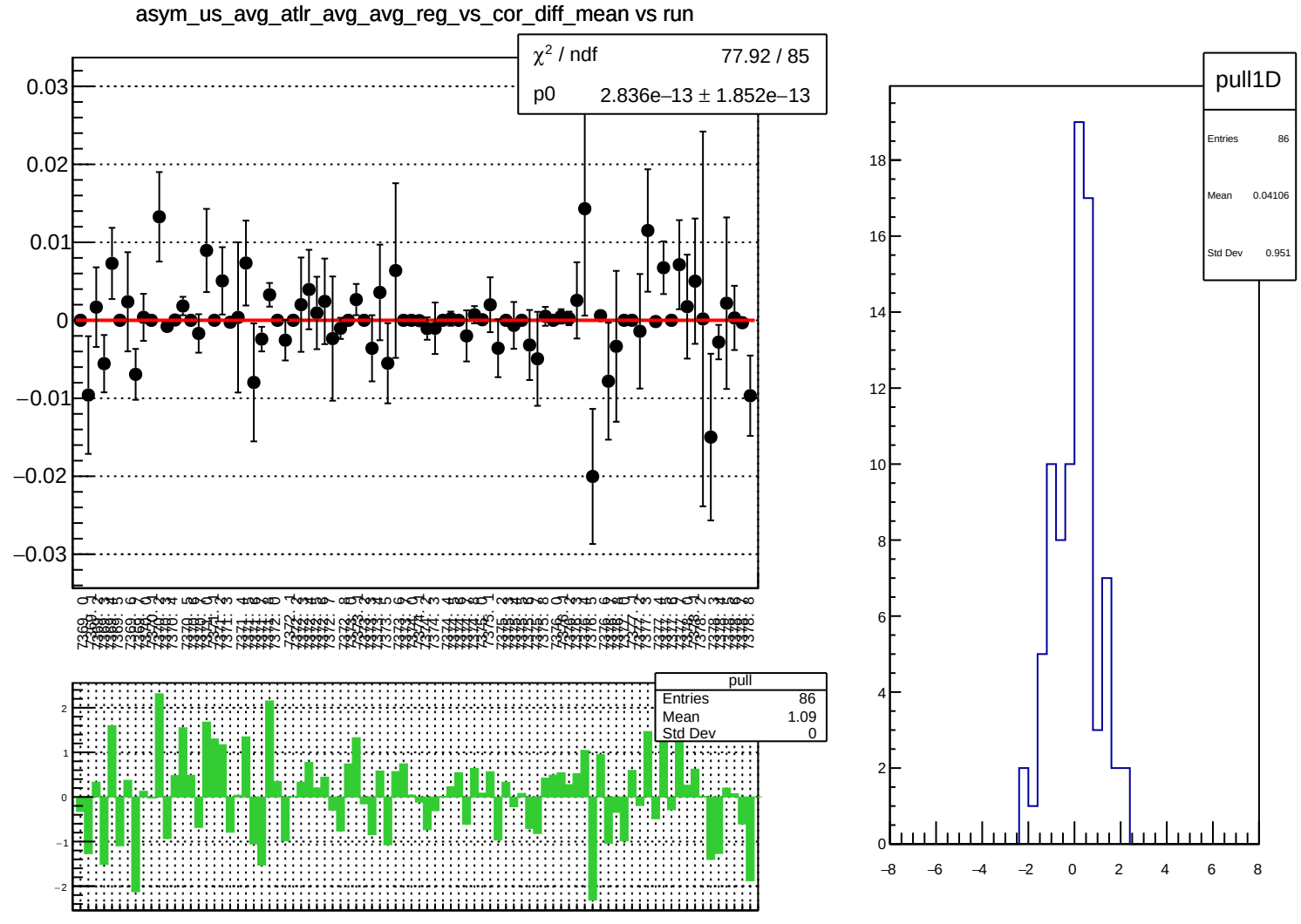

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 5062 / 85
p0 2012 ± 1.553
2400
2300
2200
2100
2000
1900
1800

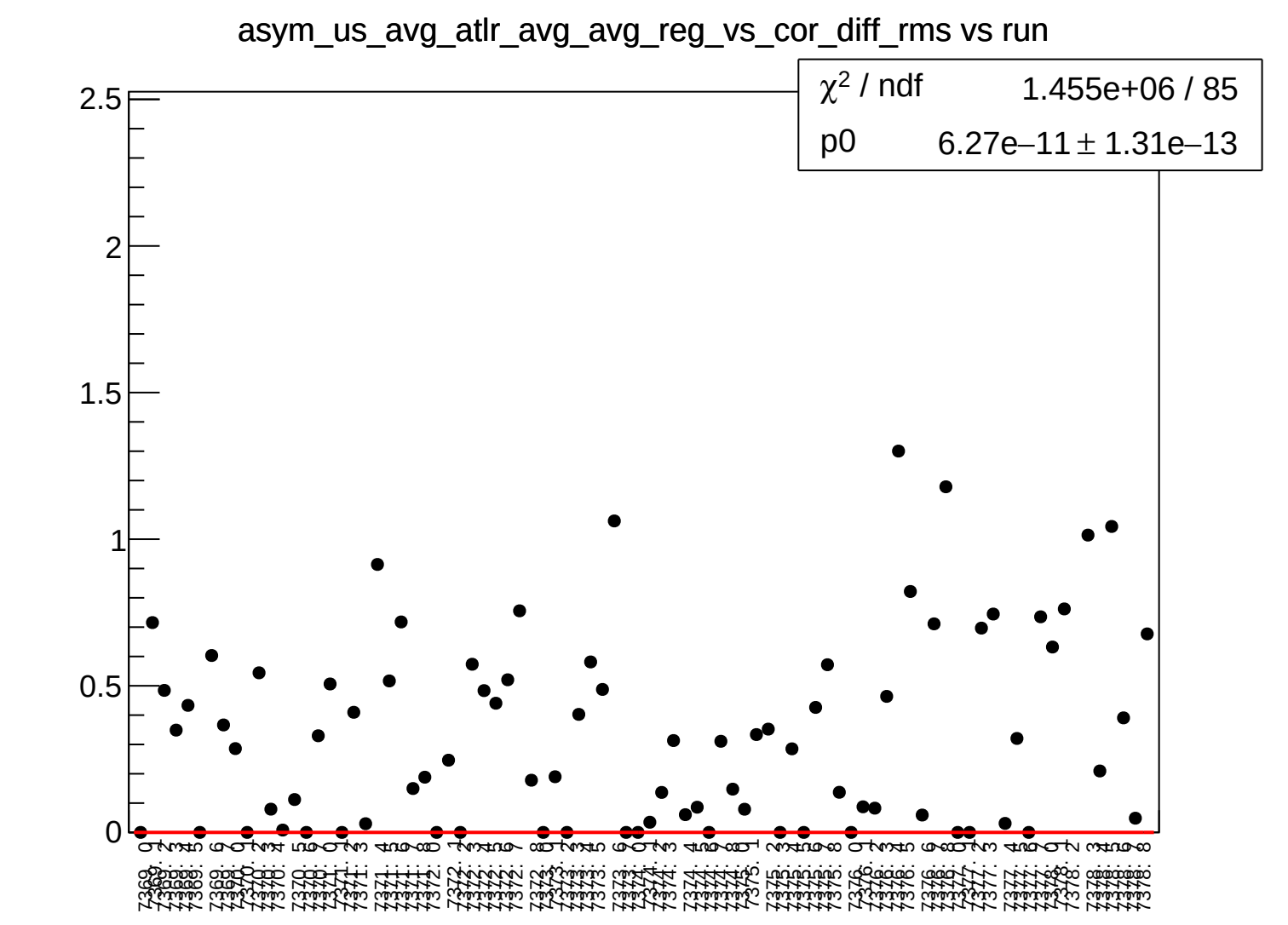

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.36 / 85
p0 −7907 ± 7218
pull
Entries 86
Mean −365.3
Std Dev 0
pull1D
Entries 86
Mean 0.00281
Std Dev 1.064

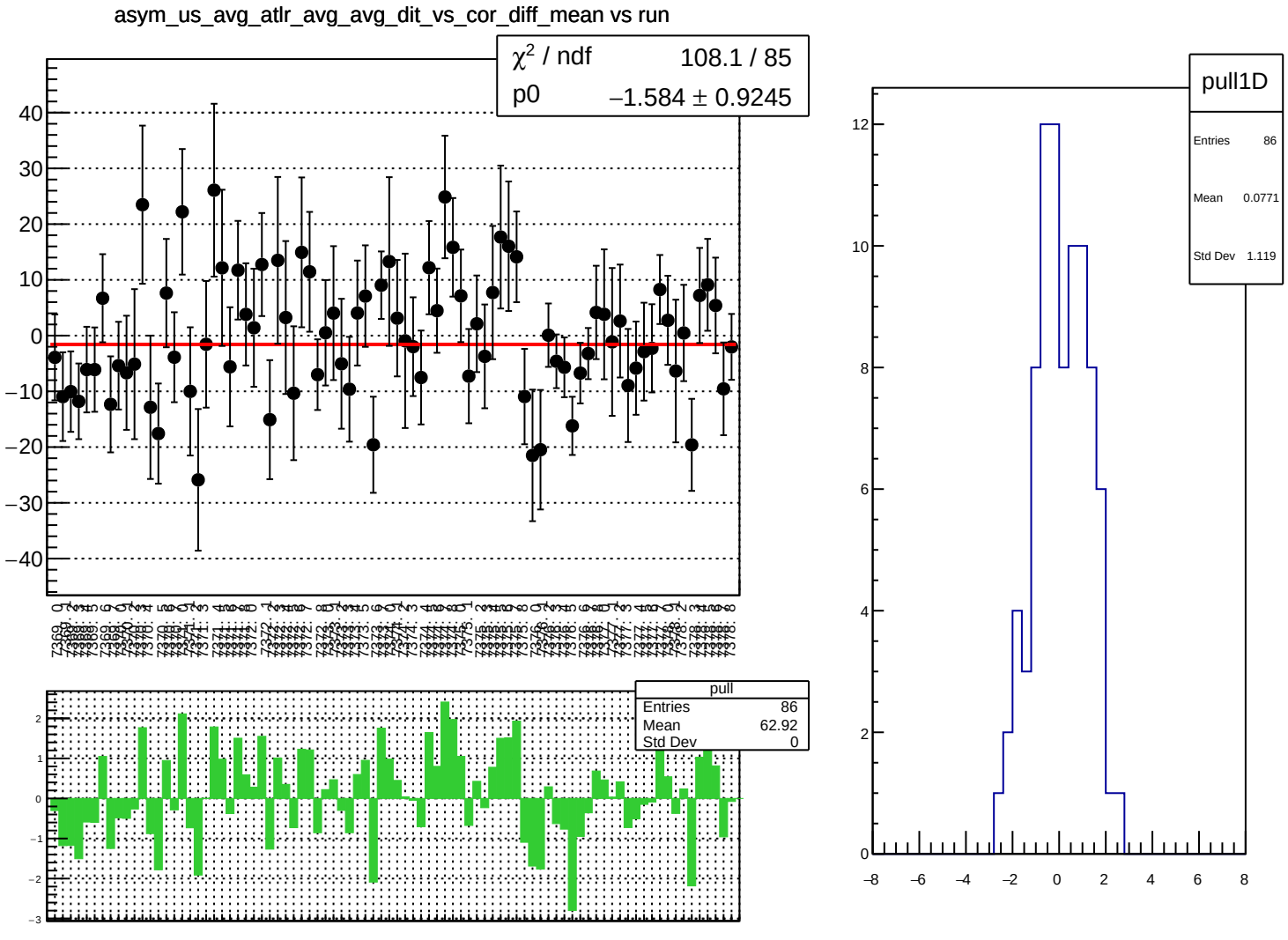

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.977e+04 / 85
p0 6565 ± 5.104
9000
8500
8000
7500
7000
6500
6000
5500
5000

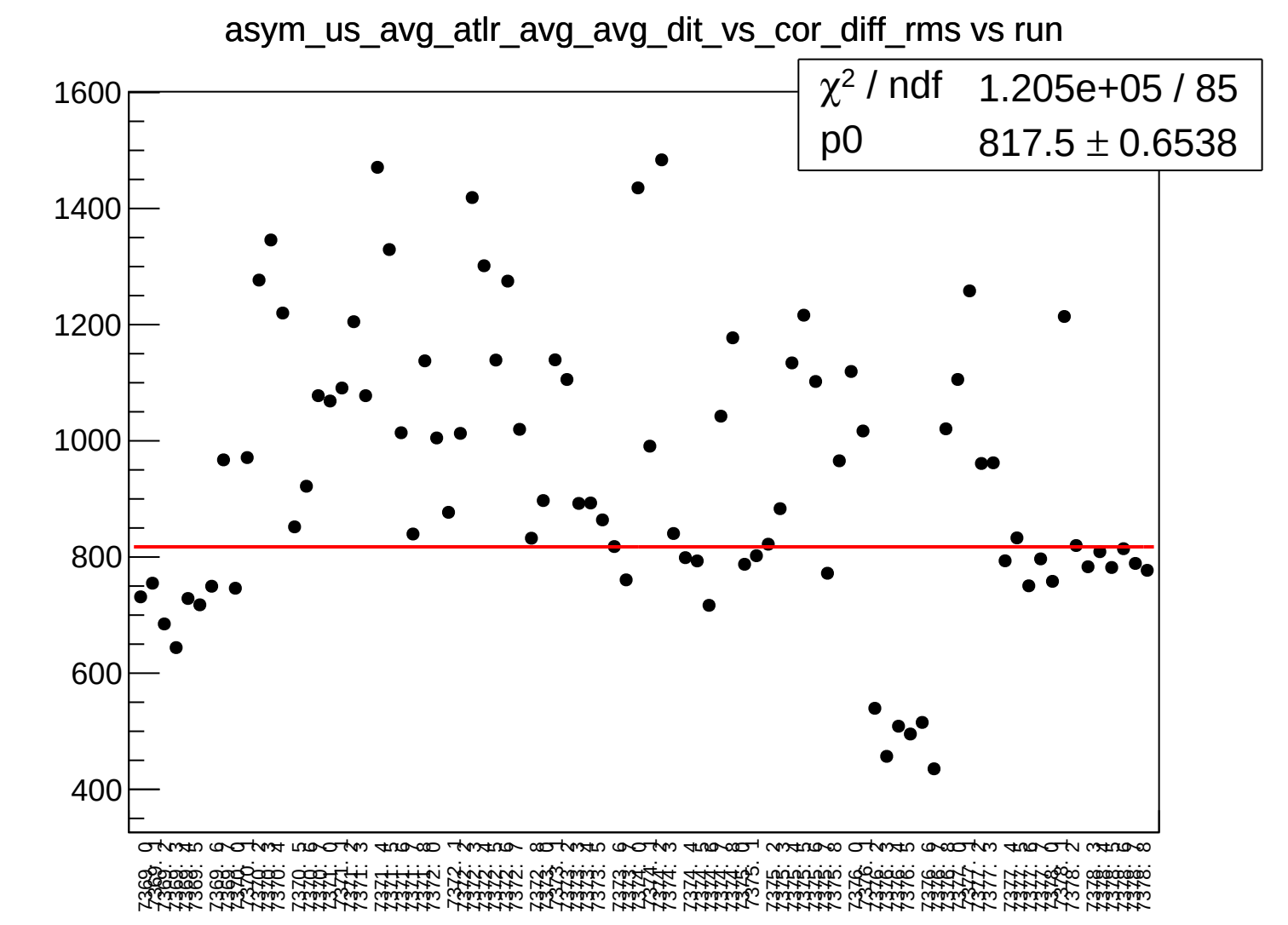

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 115.8 / 85
p0 9831 ± 6973
pull
Entries 86
Mean −162
Std Dev 0
pull1D
Entries 86
Mean −0.005468
Std Dev 1.16

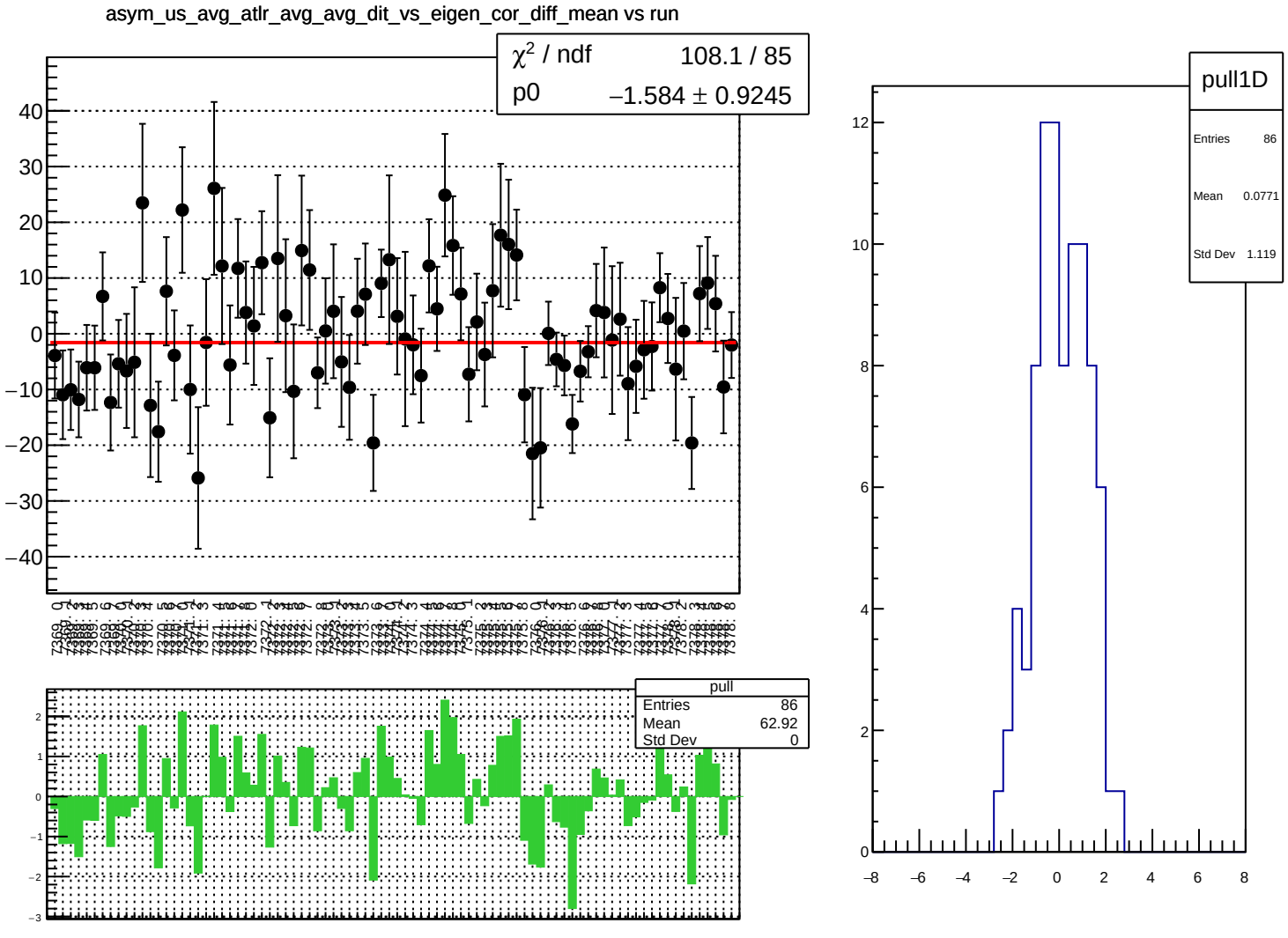

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 2.678e+04 / 85
p0 6347 ± 4.93
8500
8000
7500
7000
6500
6000
5500
5000

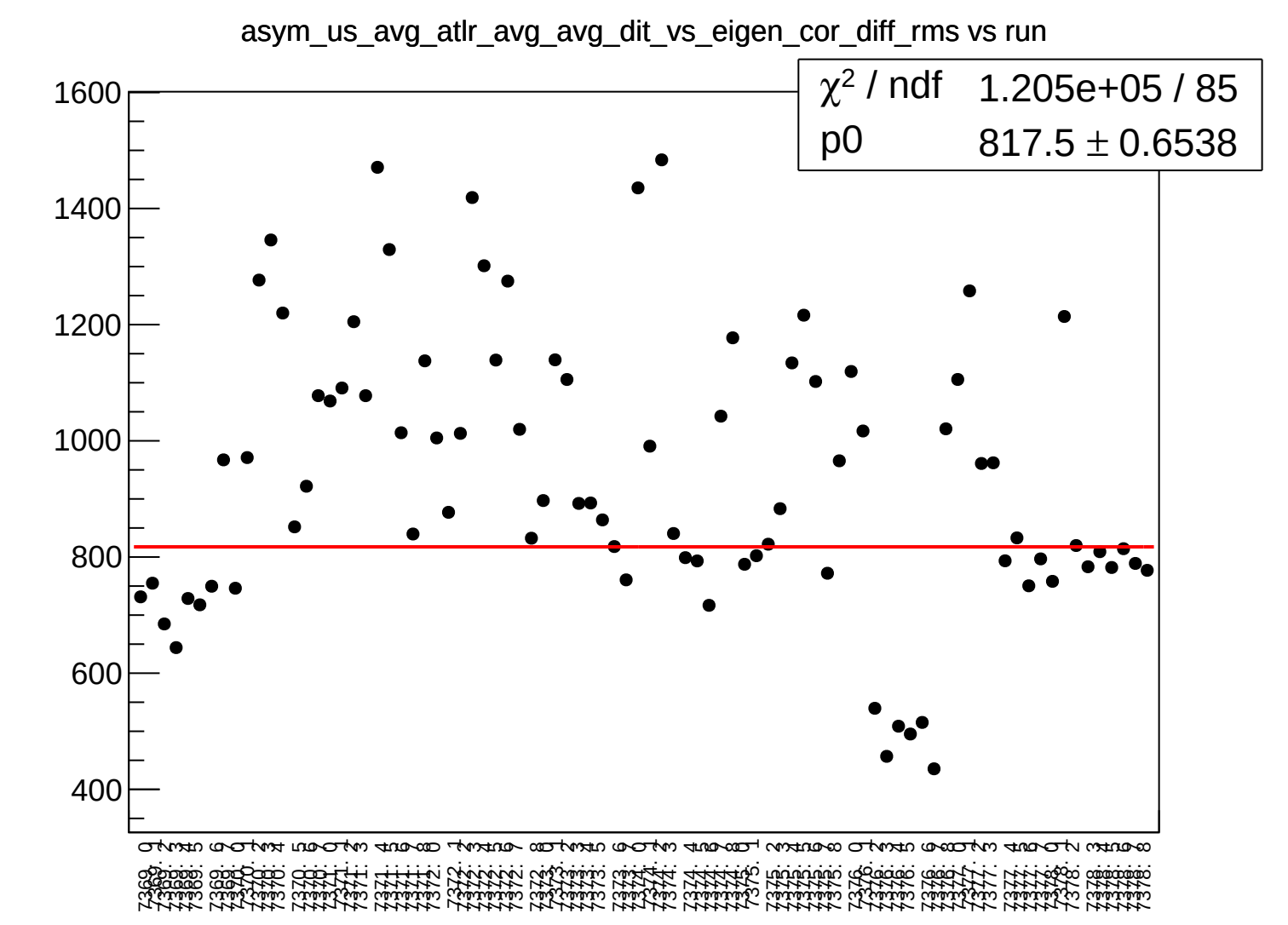

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.92 / 85
p0 2.836e−13 ± 1.852e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 1.09
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.04106
Std Dev 0.951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

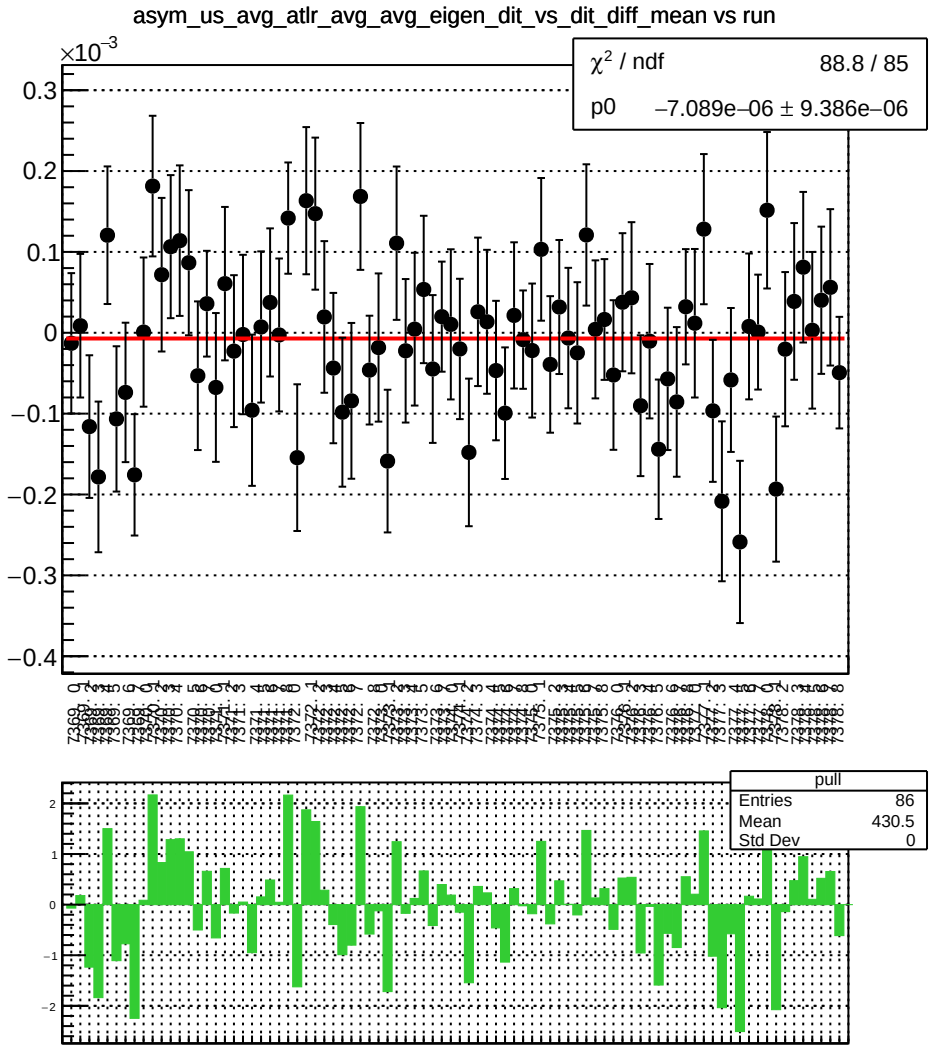

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.455e+06 / 85
p0 6.27e−11 ± 1.31e−13
2.5
2
1.5
1
0.5
0

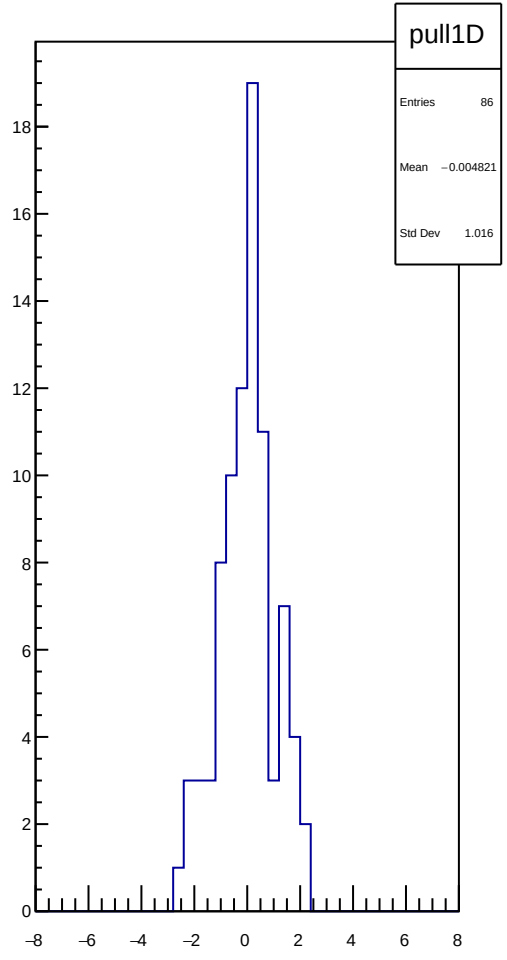

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 85
p0 −1.584 ± 0.9245
pull
Entries 86
Mean 62.92
Std Dev 0
pull1D
Entries 86
Mean 0.0771
Std Dev 1.119

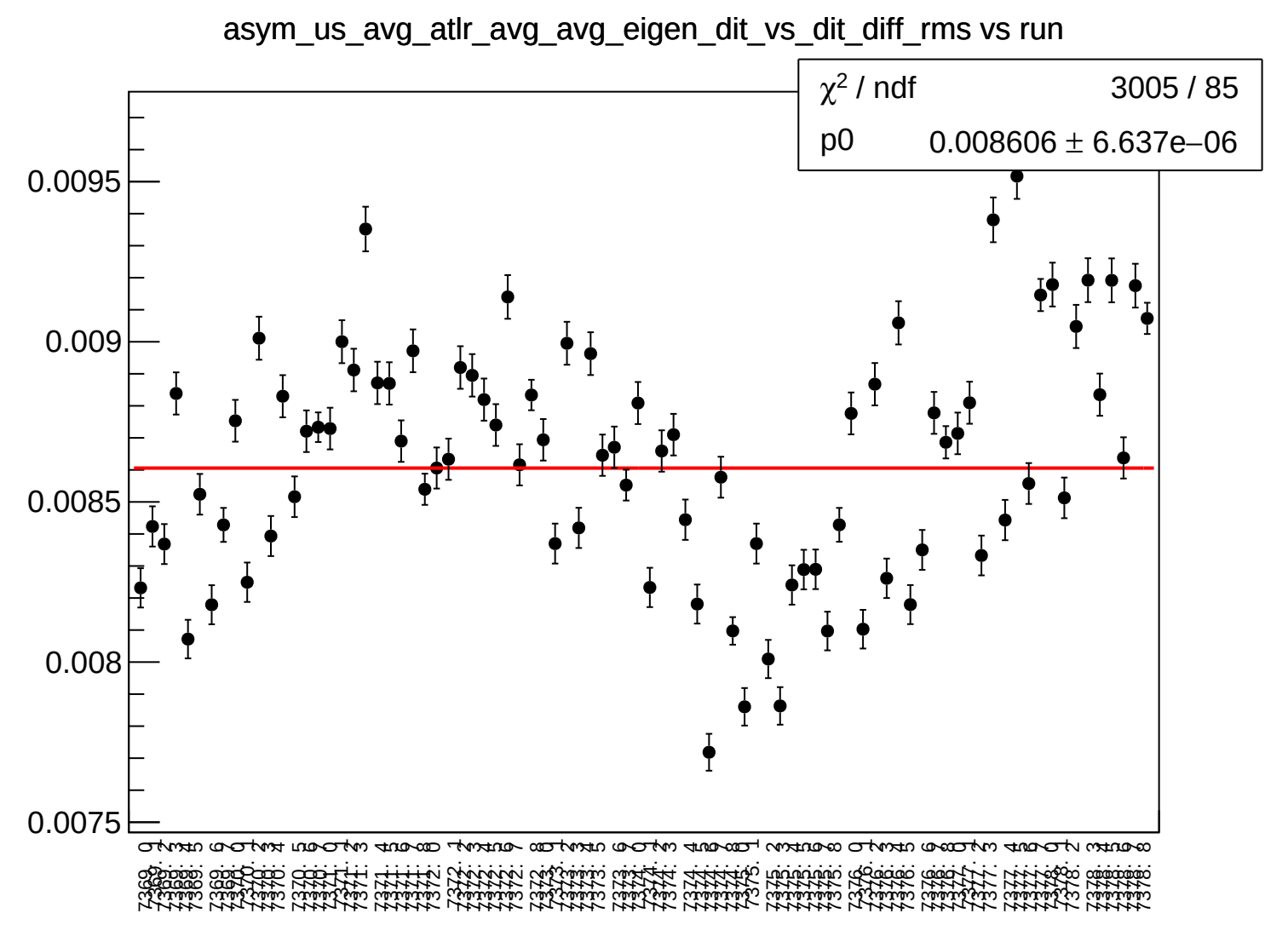

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.205e+05 / 85
p0 817.5 ± 0.6538
1600
1400
1200
1000
800
600
400

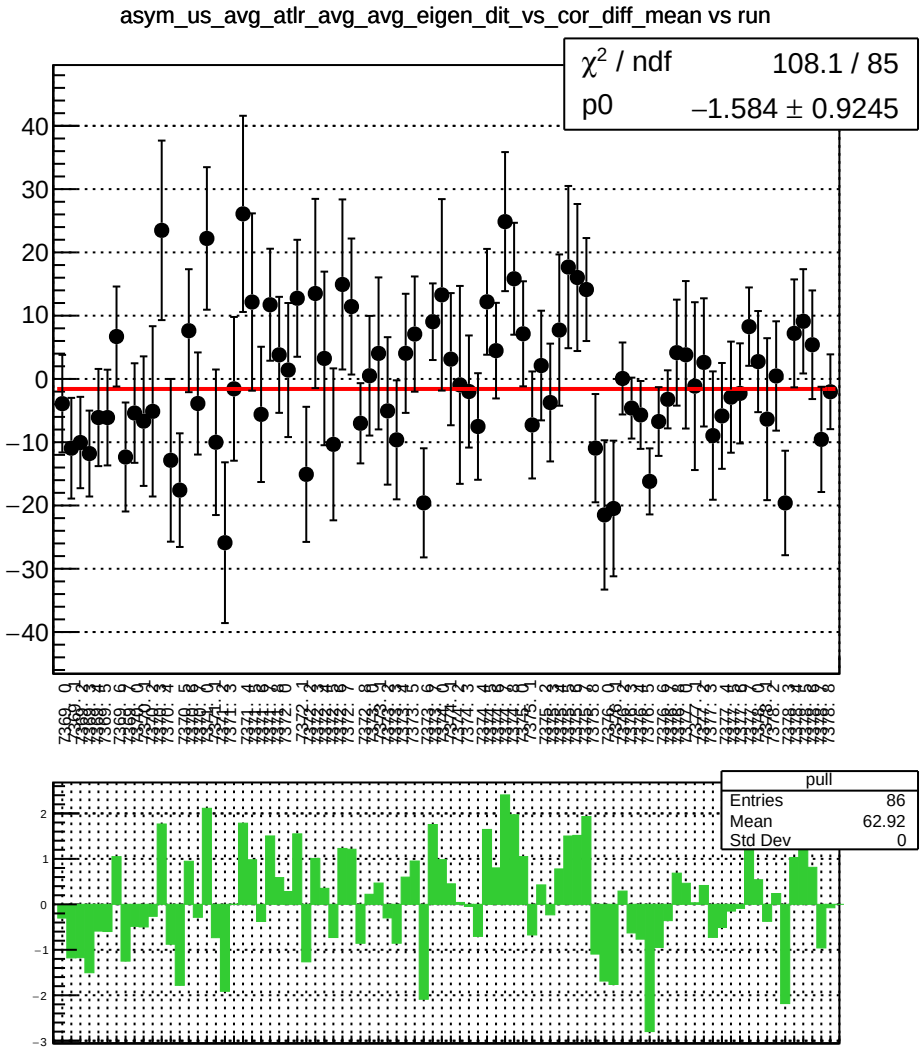

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.1 / 85
p0 −1.584 ± 0.9245
pull
Entries 86
Mean 62.92
Std Dev 0
pull1D
Entries 86
Mean 0.0771
Std Dev 1.119

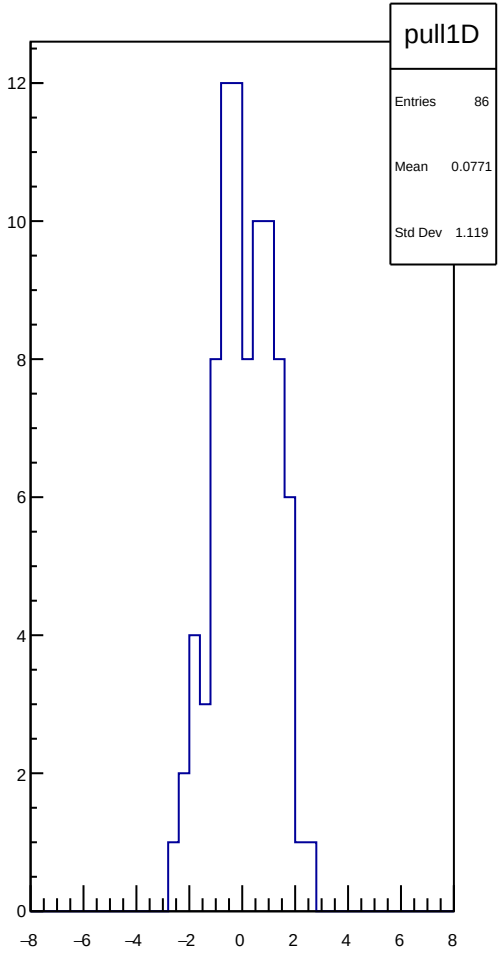

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.205e+05 / 85
p0 817.5 ± 0.6538
1600
1400
1200
1000
800
600
400

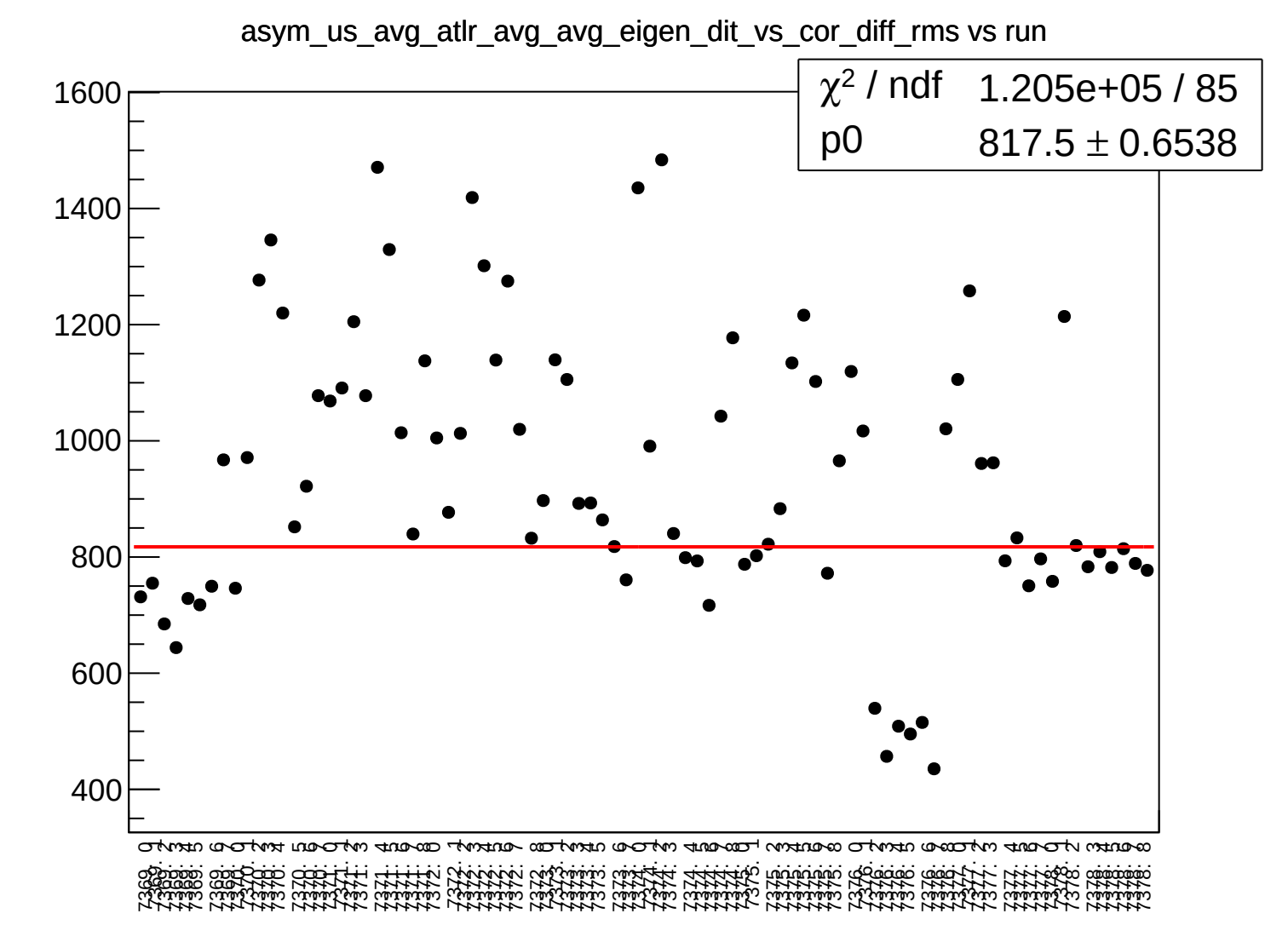

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.8 / 85
p0 −7.089e−06 ± 9.386e−06
pull
Entries 86
Mean 430.5
Std Dev 0

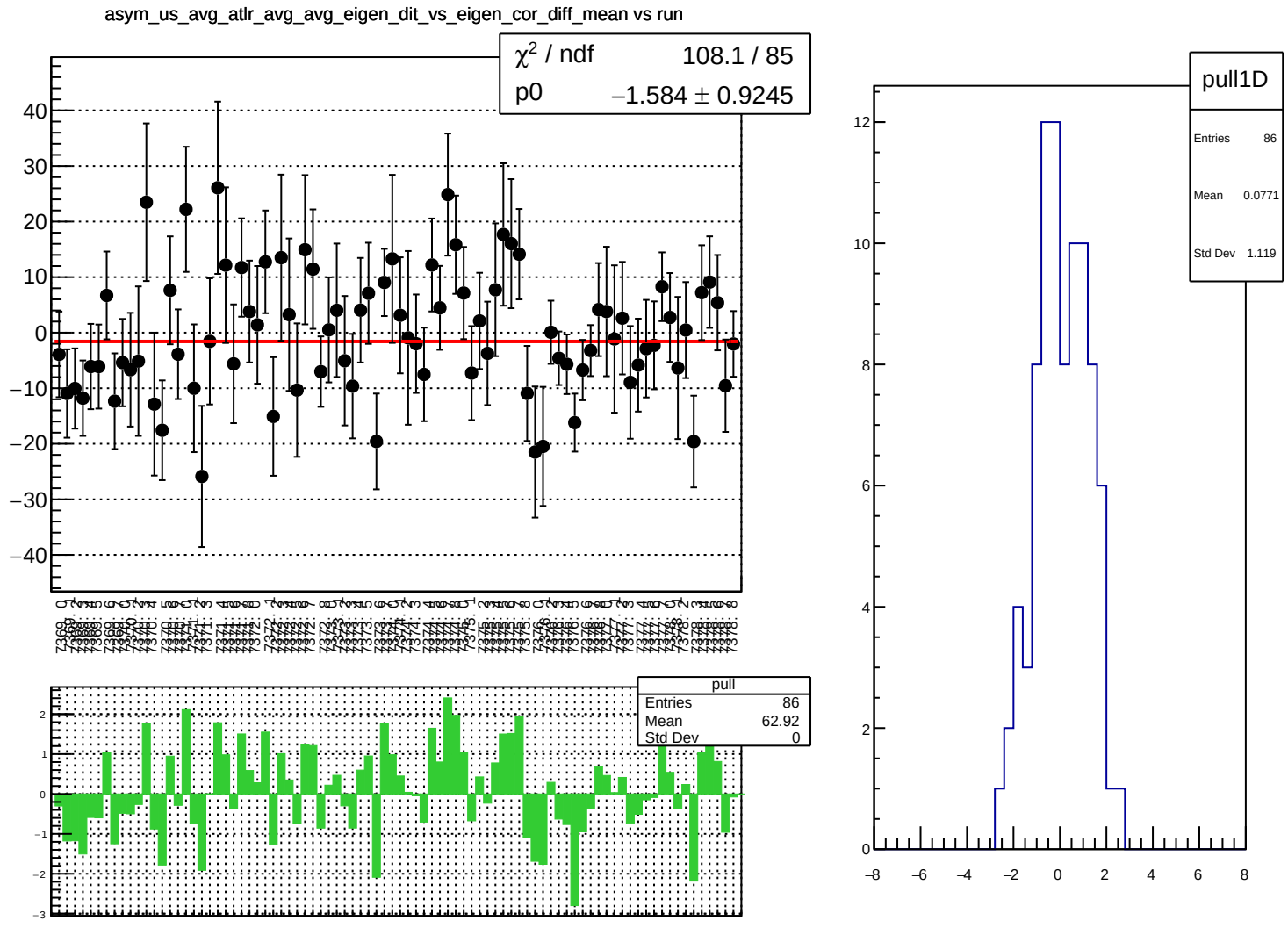

pull1D
Entries 86
Mean −0.004821
Std Dev 1.016

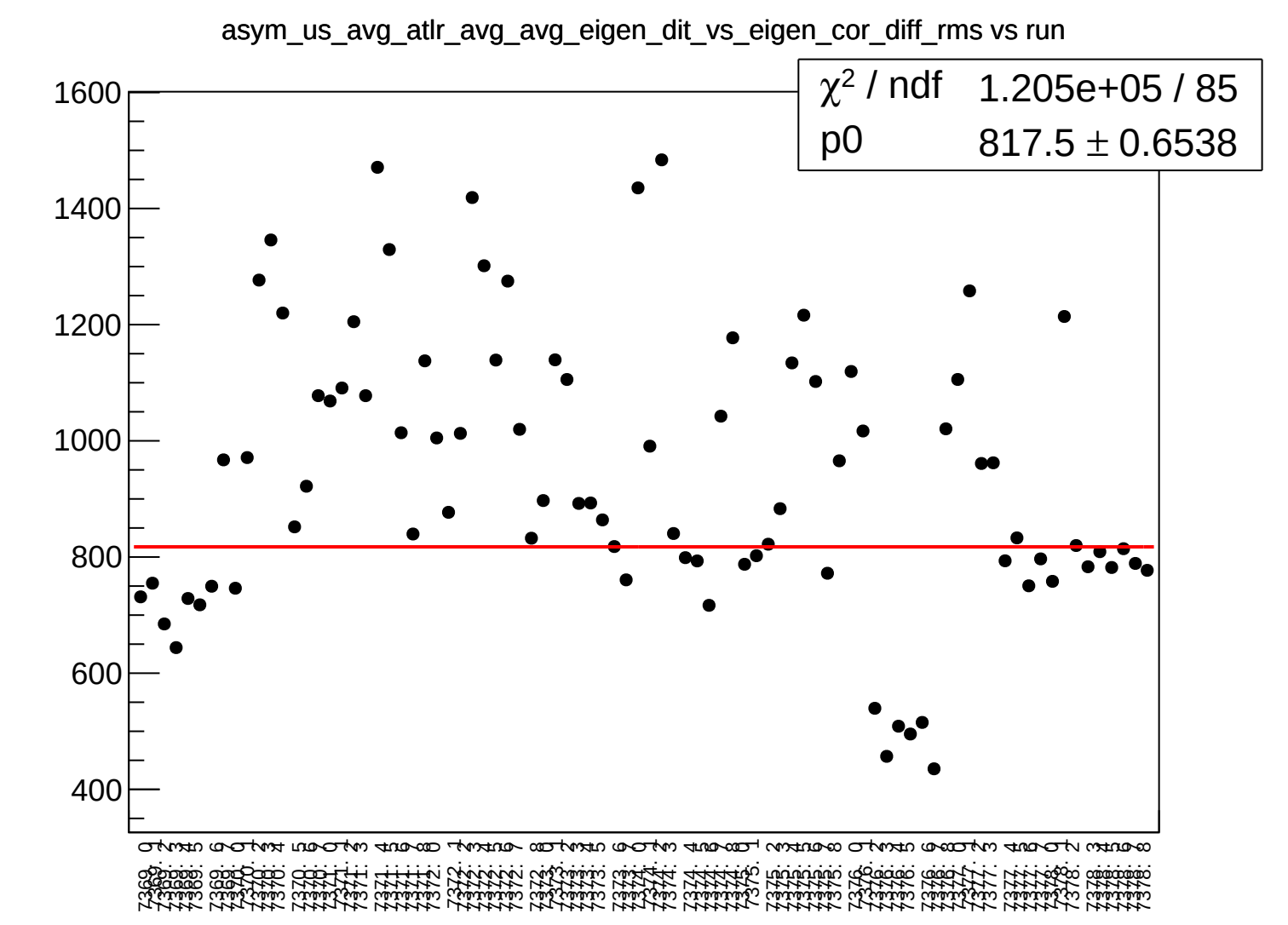

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3005 / 85
p0 0.008606 ± 6.637e−06
0.0095
0.009
0.0085
0.008
0.0075

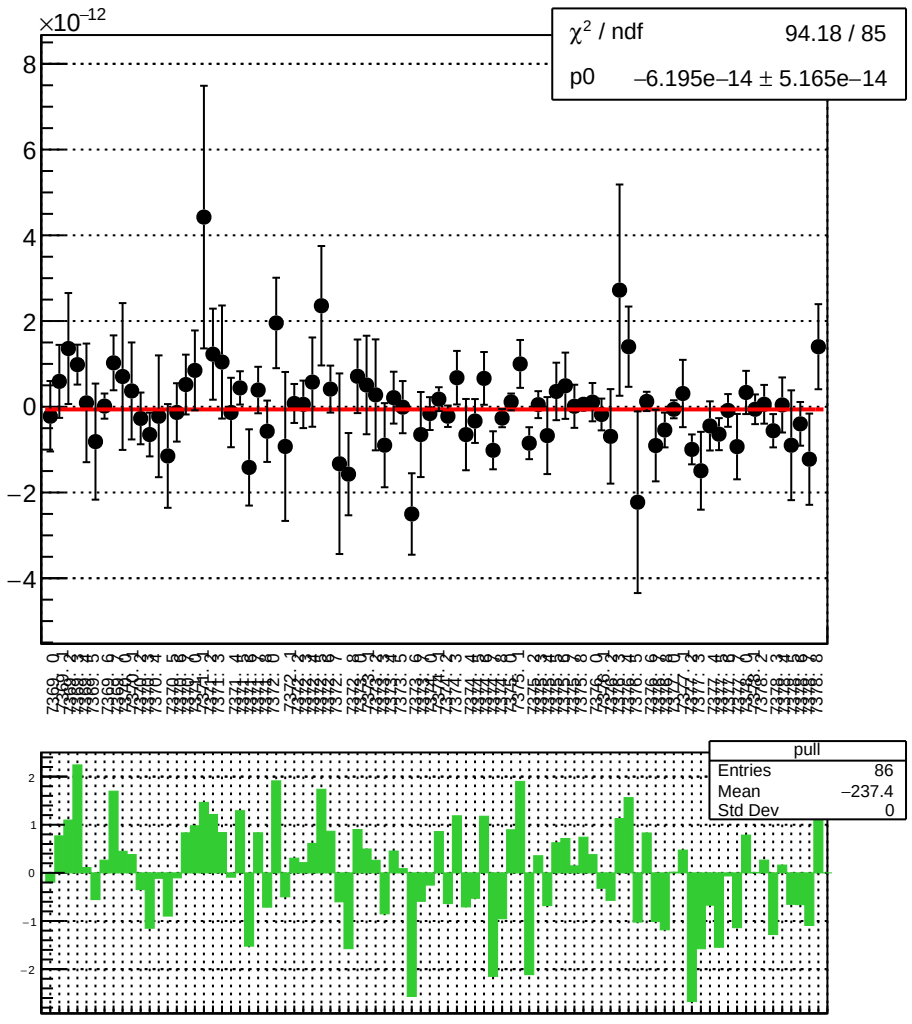

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 85
p0 −1.584 ± 0.9245
pull
Entries 86
Mean 62.92
Std Dev 0

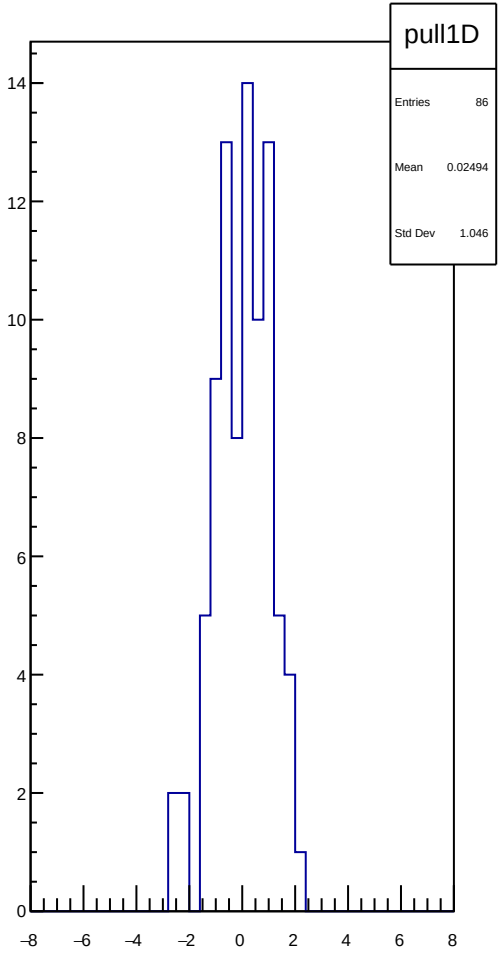

pull1D
Entries 86
Mean 0.0771
Std Dev 1.119

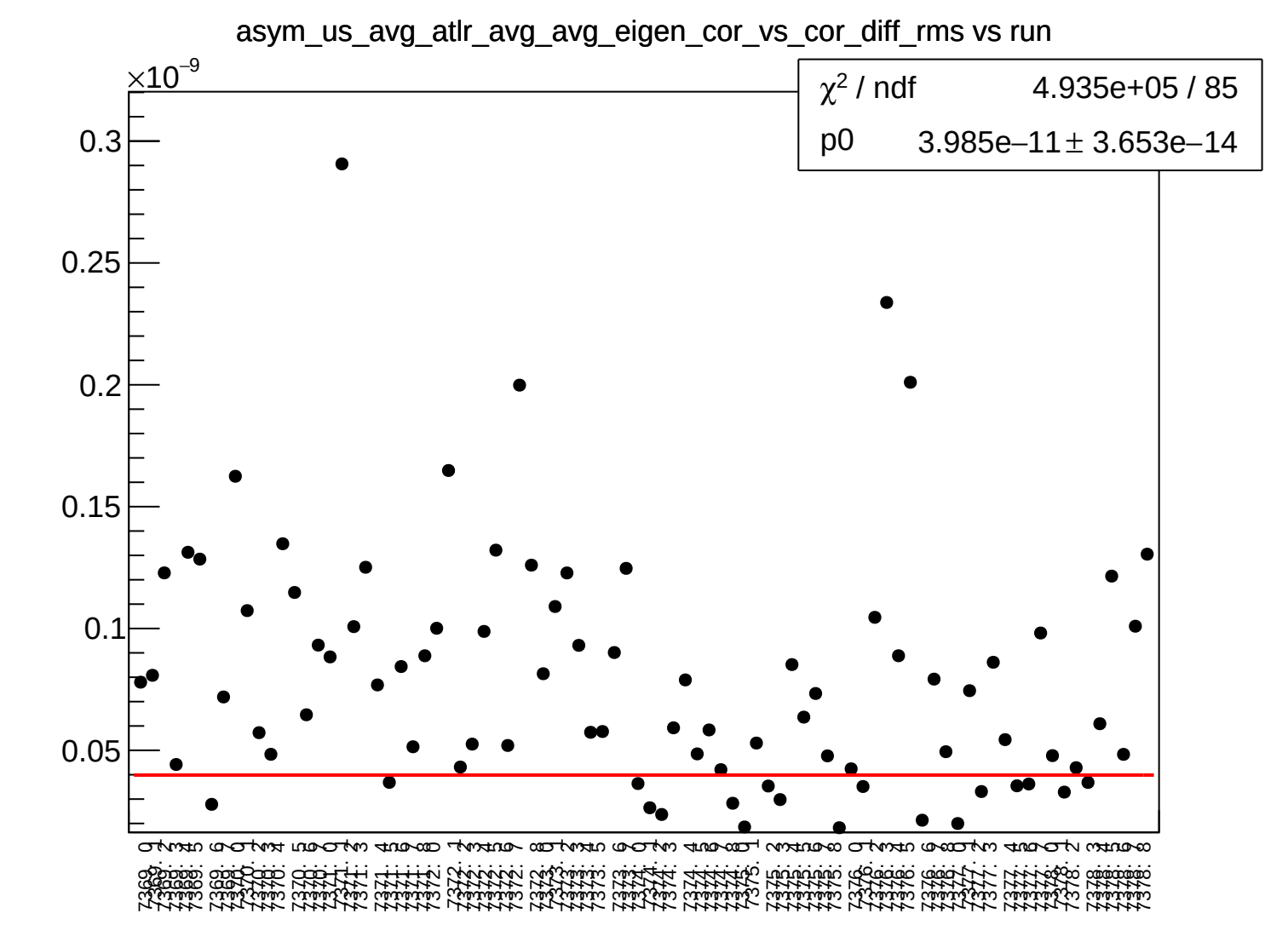

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.205e+05 / 85
p0 817.5 ± 0.6538
1600
1400
1200
1000
800
600
400

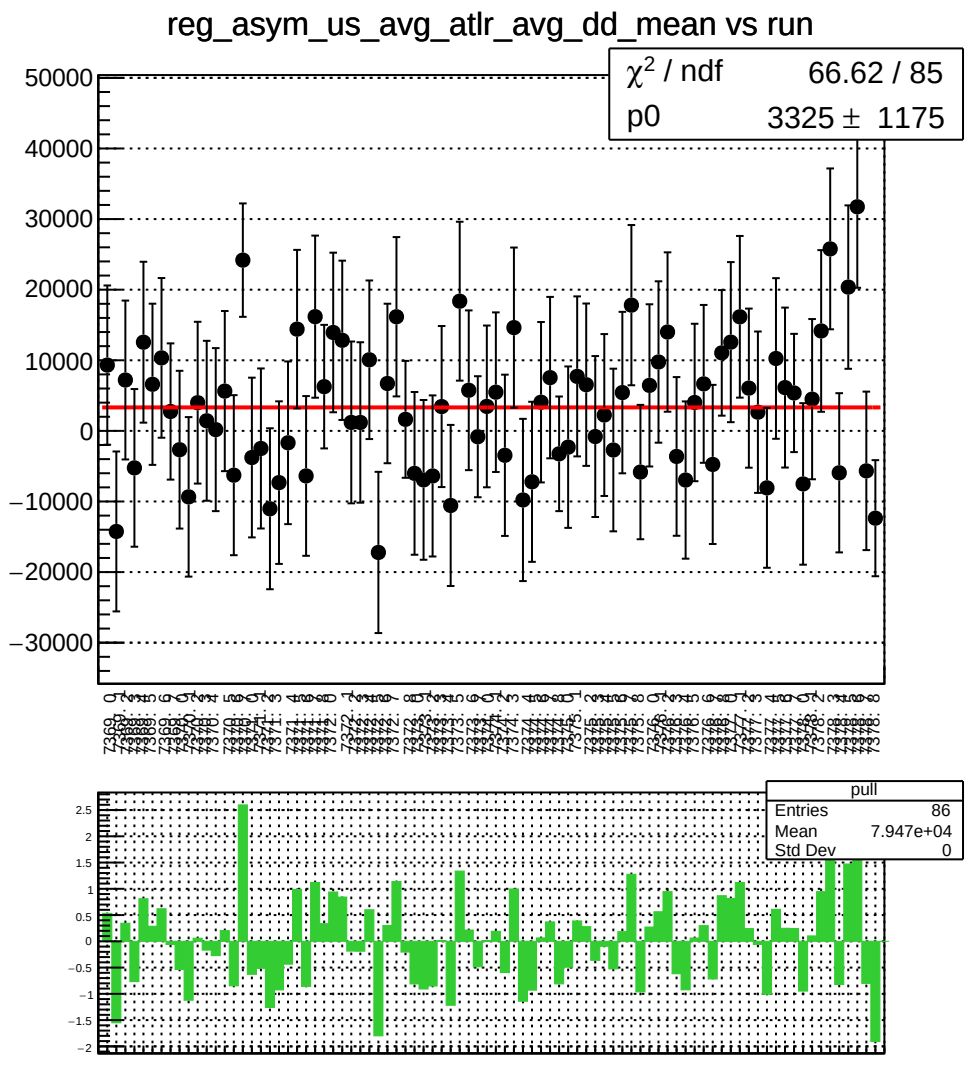

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.1 / 85
p0 −1.584 ± 0.9245
pull
Entries 86
Mean 62.92
Std Dev 0
pull1D
Entries 86
Mean 0.0771
Std Dev 1.119

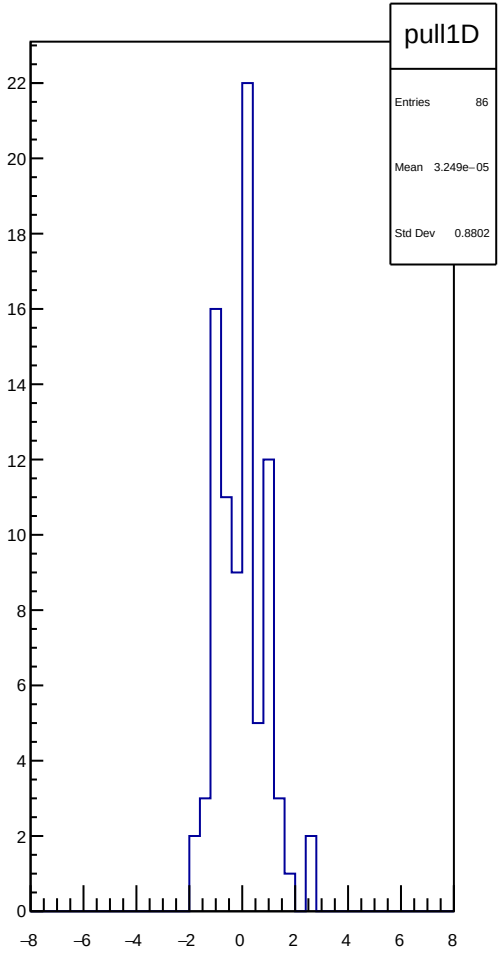

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.205e+05 / 85
p0 817.5 ± 0.6538
1600
1400
1200
1000
800
600
400

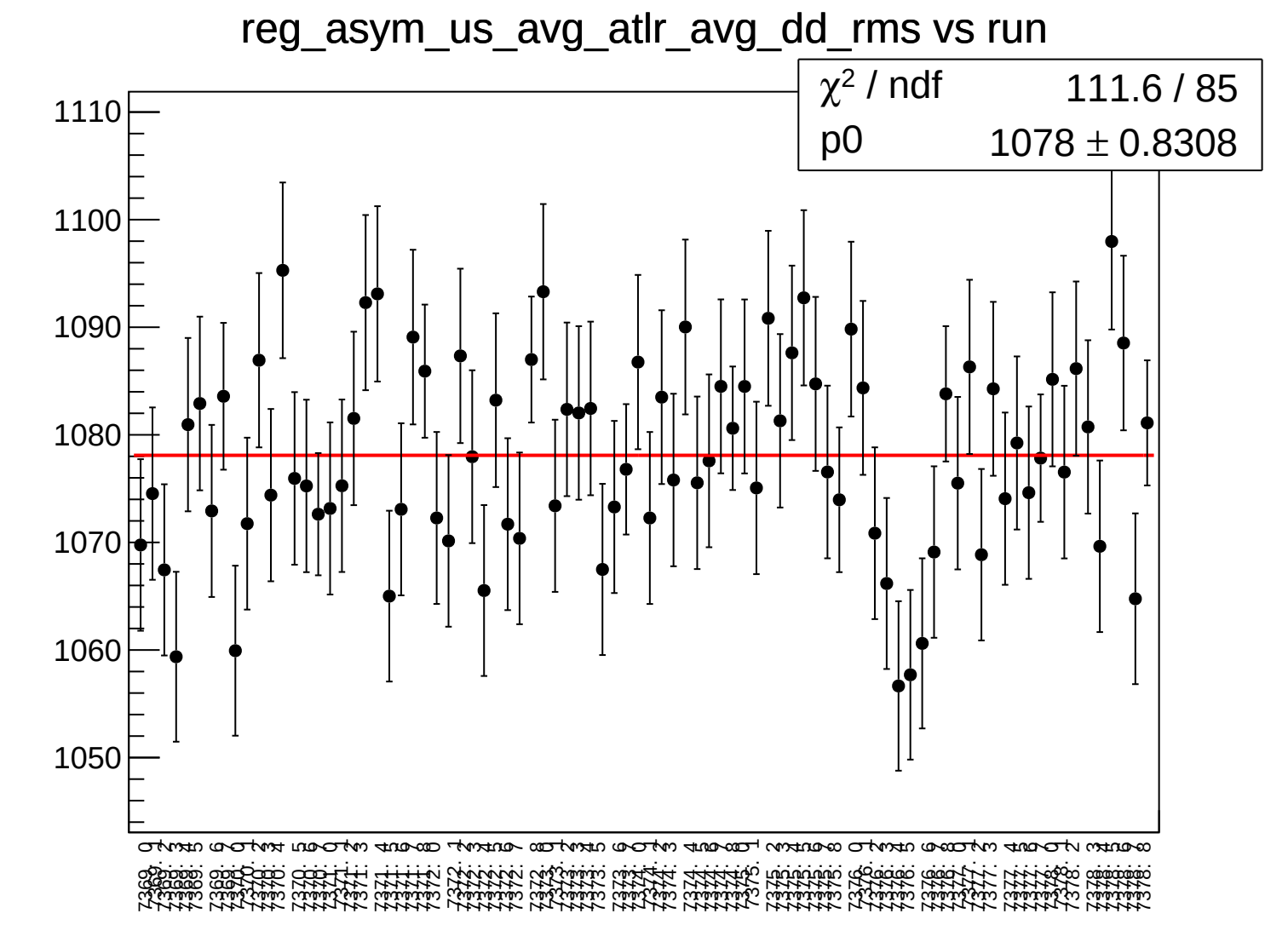

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.18 / 85
p0 −6.195e−14 ± 5.165e−14
pull
Entries 86
Mean −237.4
Std Dev 0

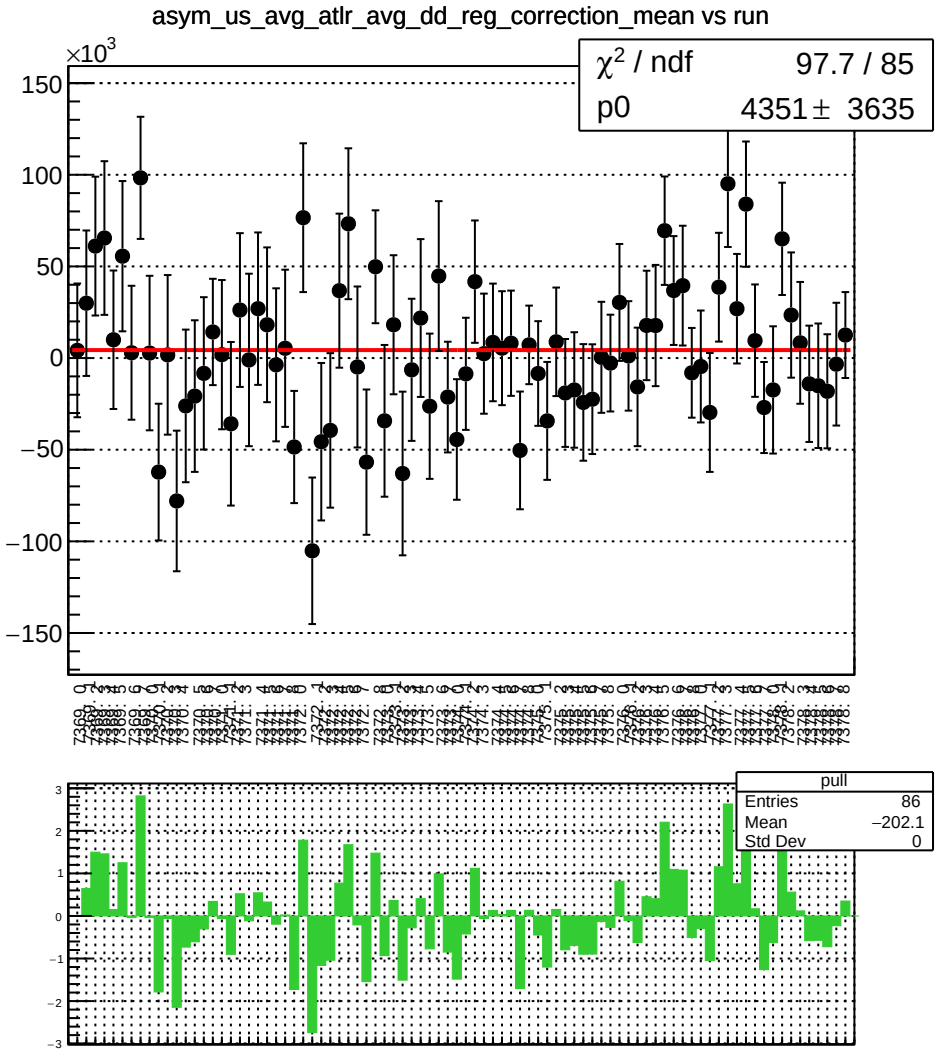

pull1D
Entries 86
Mean 0.02494
Std Dev 1.046

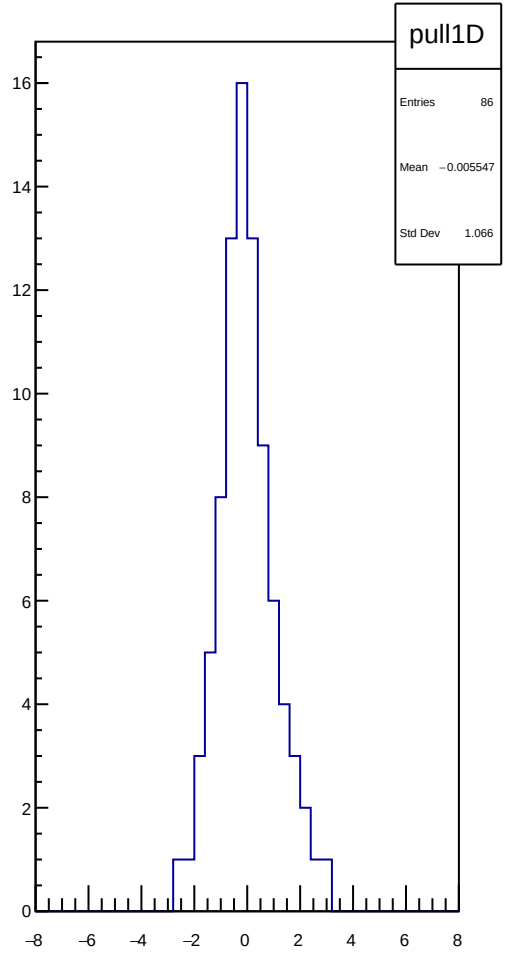

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.935e+05 / 85
p0 3.985e−11 ± 3.653e−14
0.3
0.25
0.2
0.15
0.1
0.05

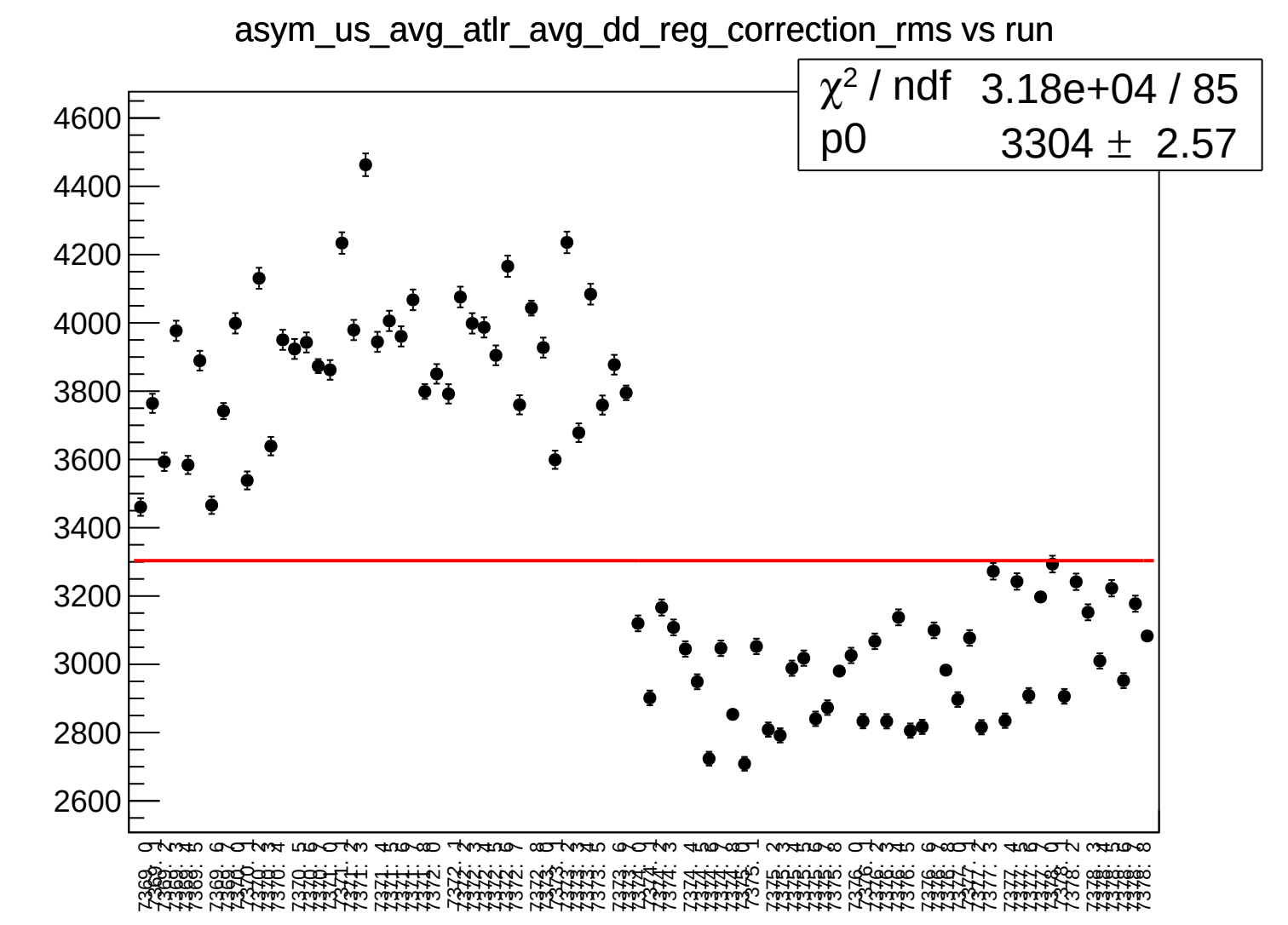

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ^2 / ndf 66.62 / 85
p0 3325 ± 1175
pull
Entries 86
Mean 7.947e+04
Std Dev 0

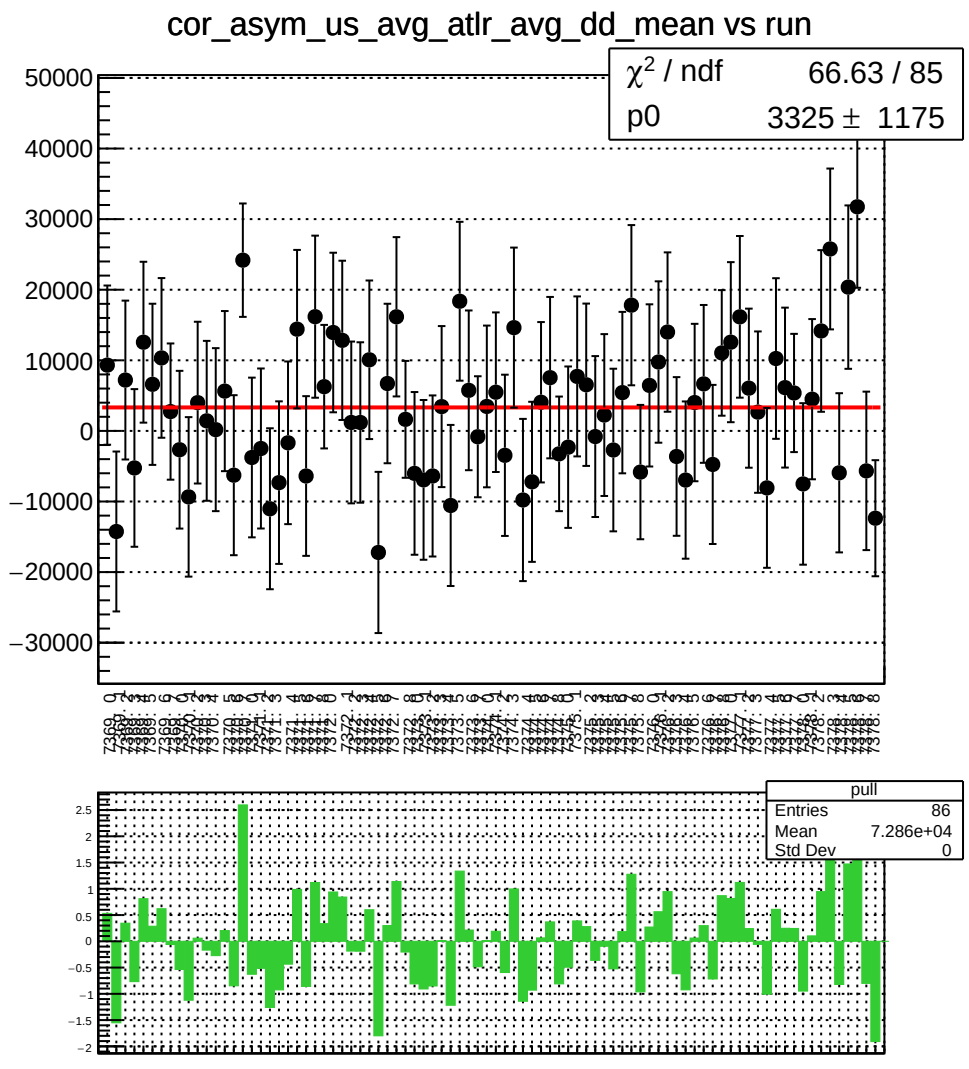

pull1D
Entries 86
Mean 3.249e−05
Std Dev 0.8802

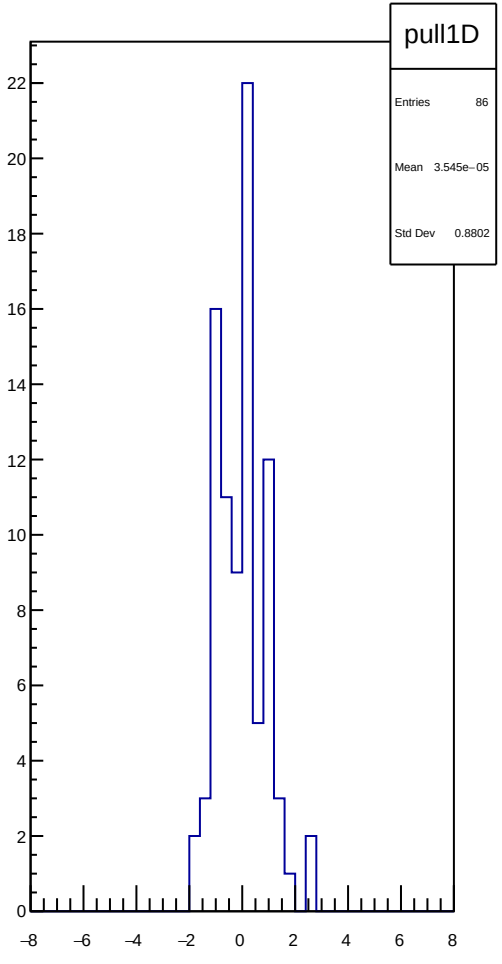

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 111.6 / 85
p0 1078 ± 0.8308
1110
1100
1090
1080
1070
1060
1050

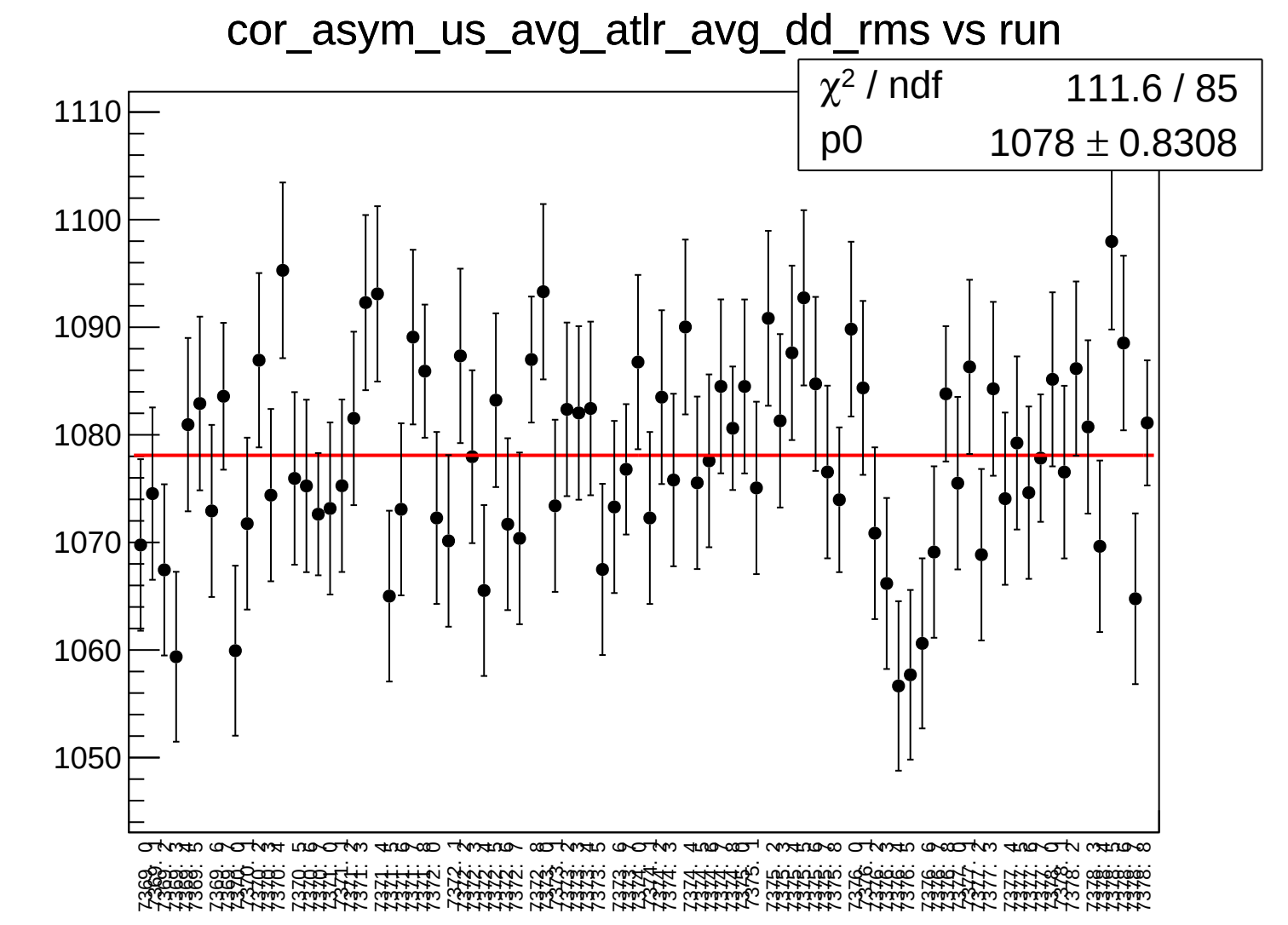

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 97.7 / 85
p0 4351 ± 3635
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −202.1
Std Dev 0
3
2
1
0
−1
−2
−3

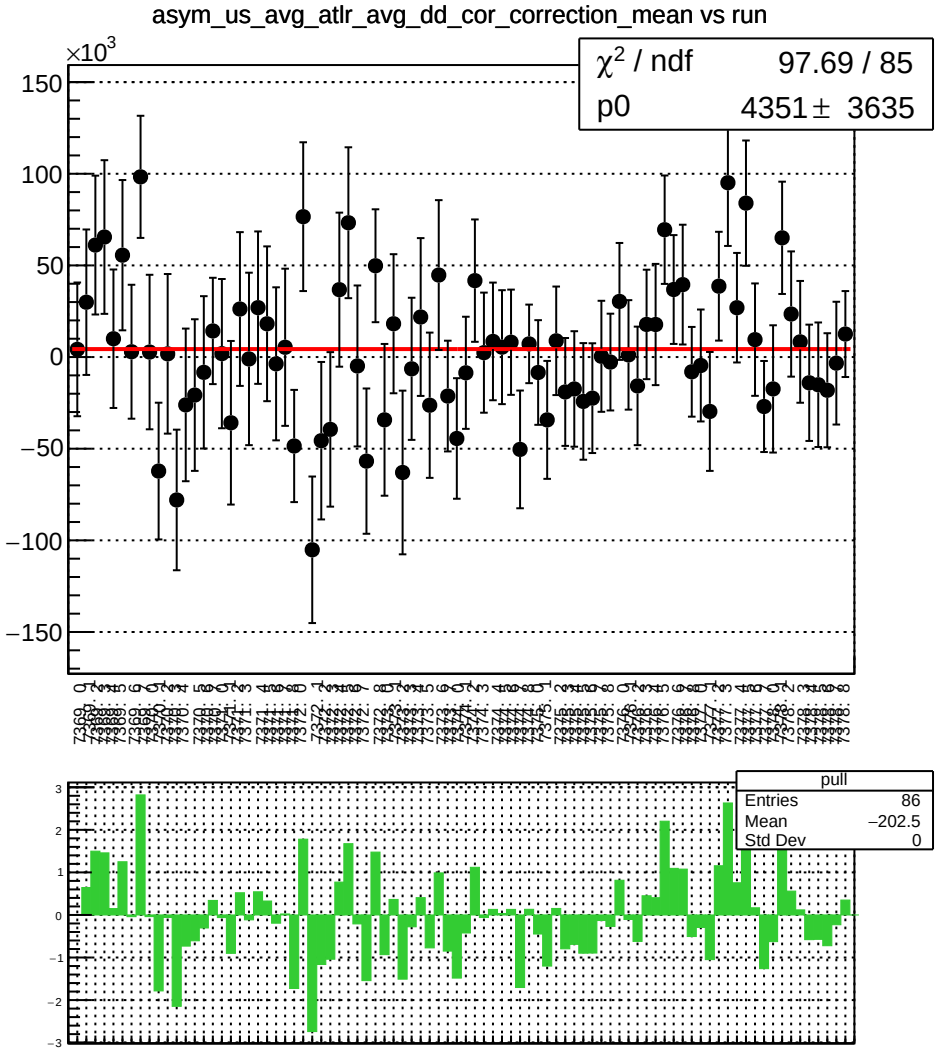

pull1D
Entries 86
Mean −0.005547
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

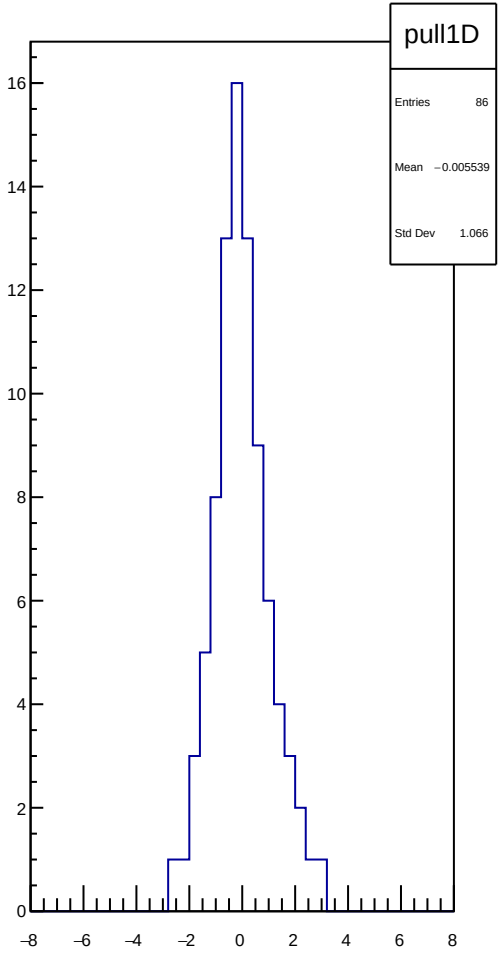

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.18e+04 / 85
p0 3304 ± 2.57
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

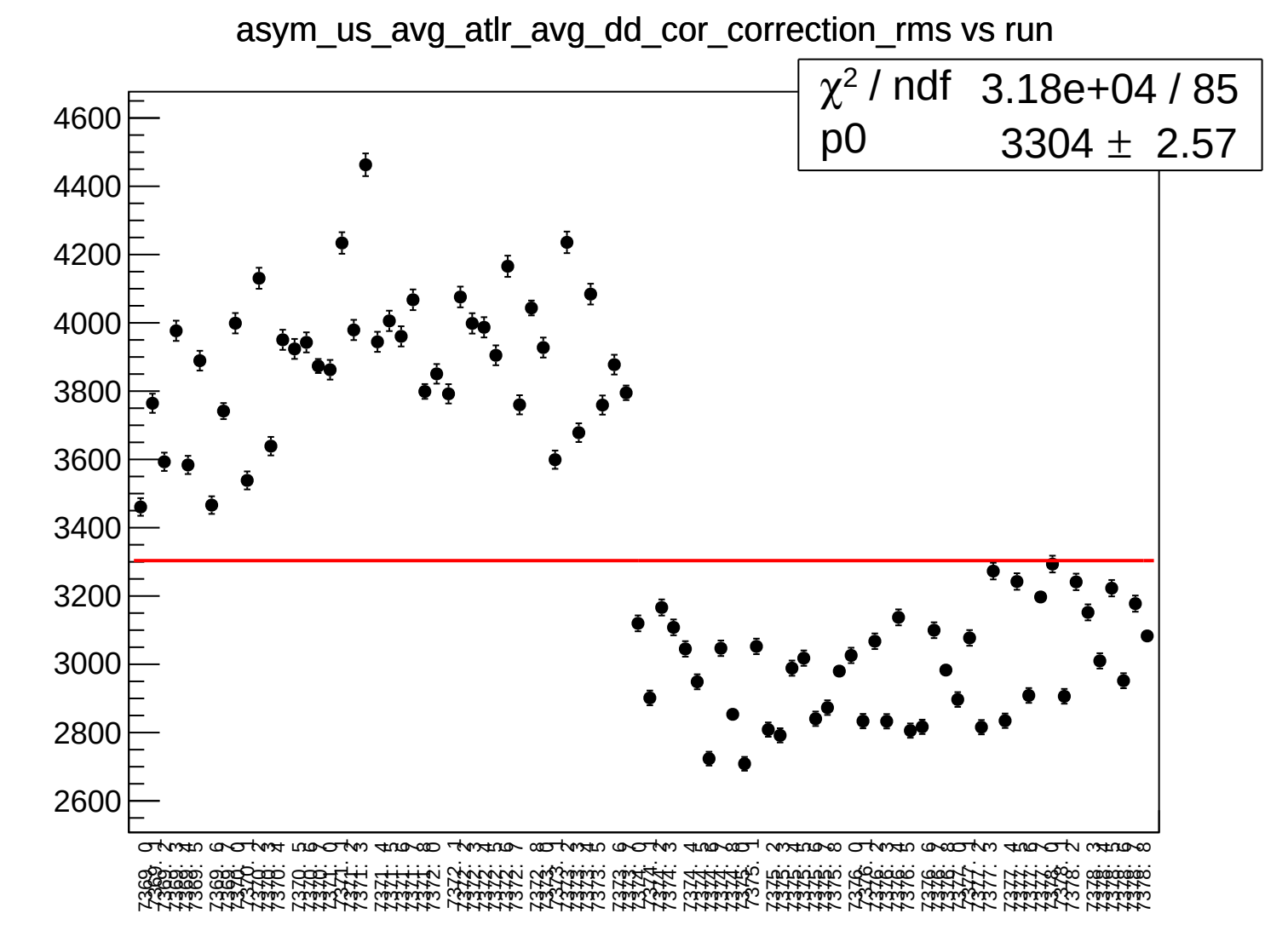

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 66.63 / 85
p0 3325 ± 1175
pull
Entries 86
Mean 7.286e+04
Std Dev 0

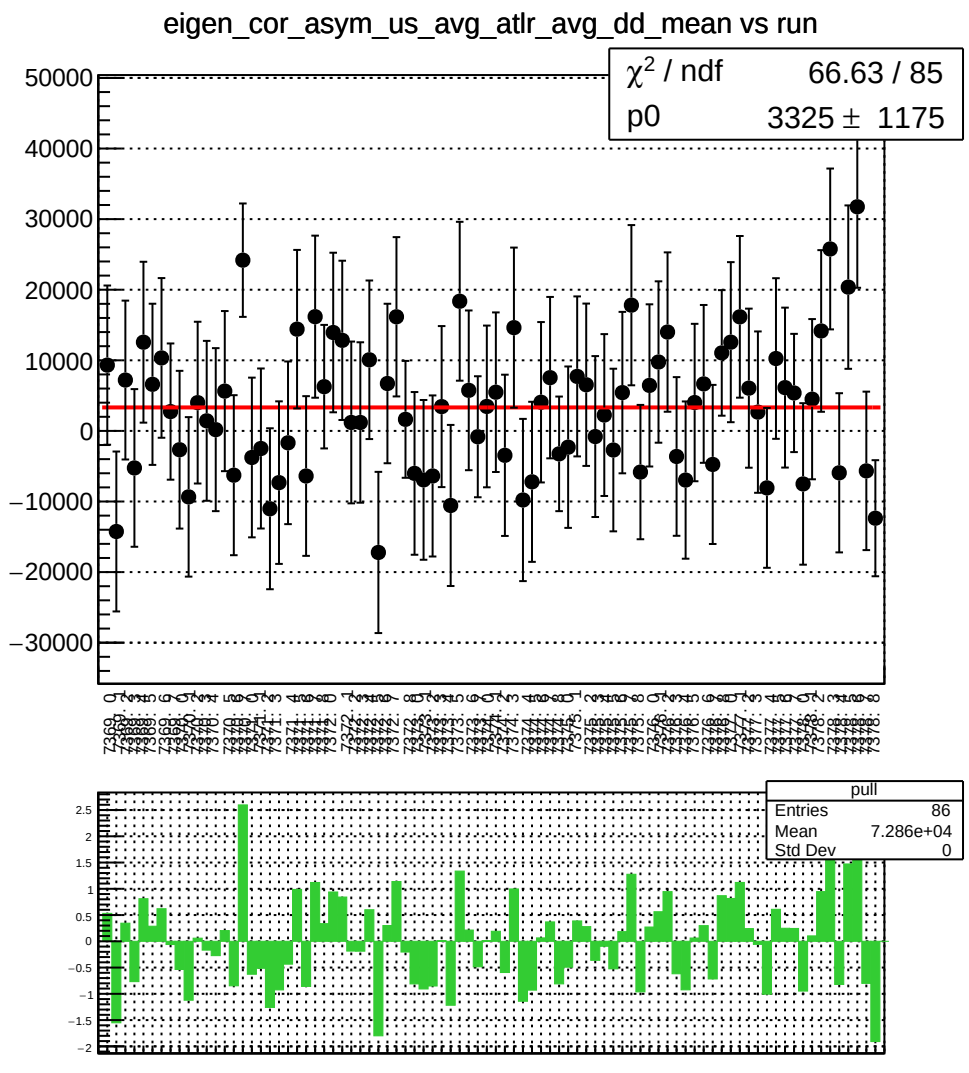

pull1D
Entries 86
Mean 3.545e−05
Std Dev 0.8802

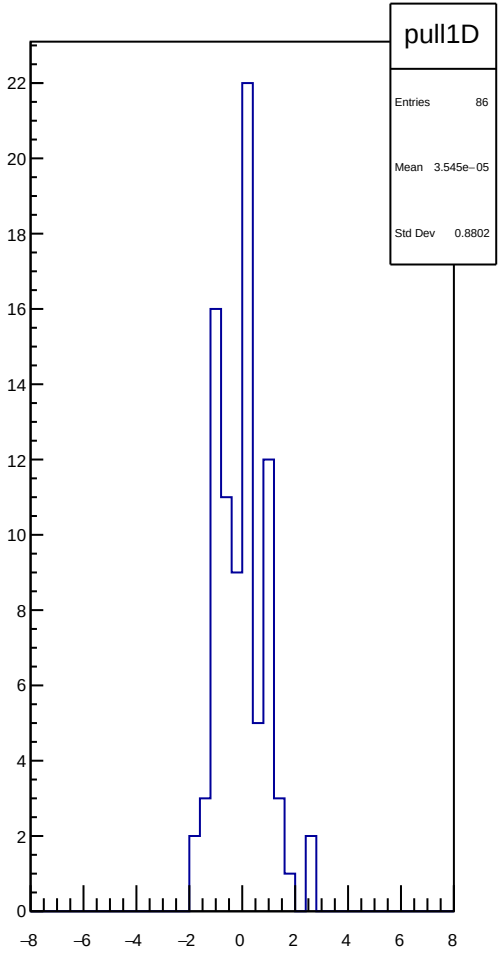

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 111.6 / 85
p0 1078 ± 0.8308
1110
1100
1090
1080
1070
1060
1050

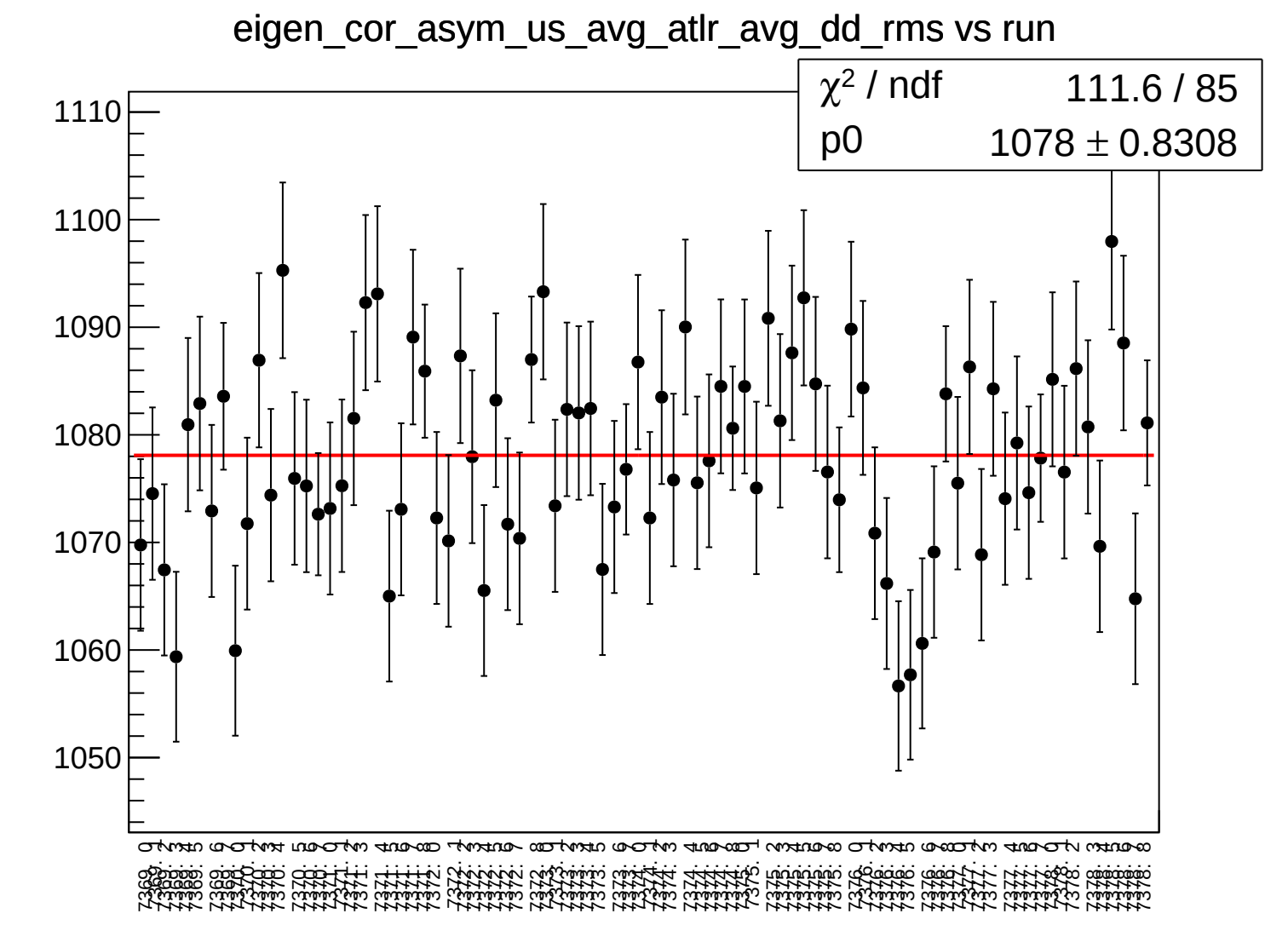

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.69 / 85
p0 4351 ± 3635
pull
Entries 86
Mean −202.5
Std Dev 0

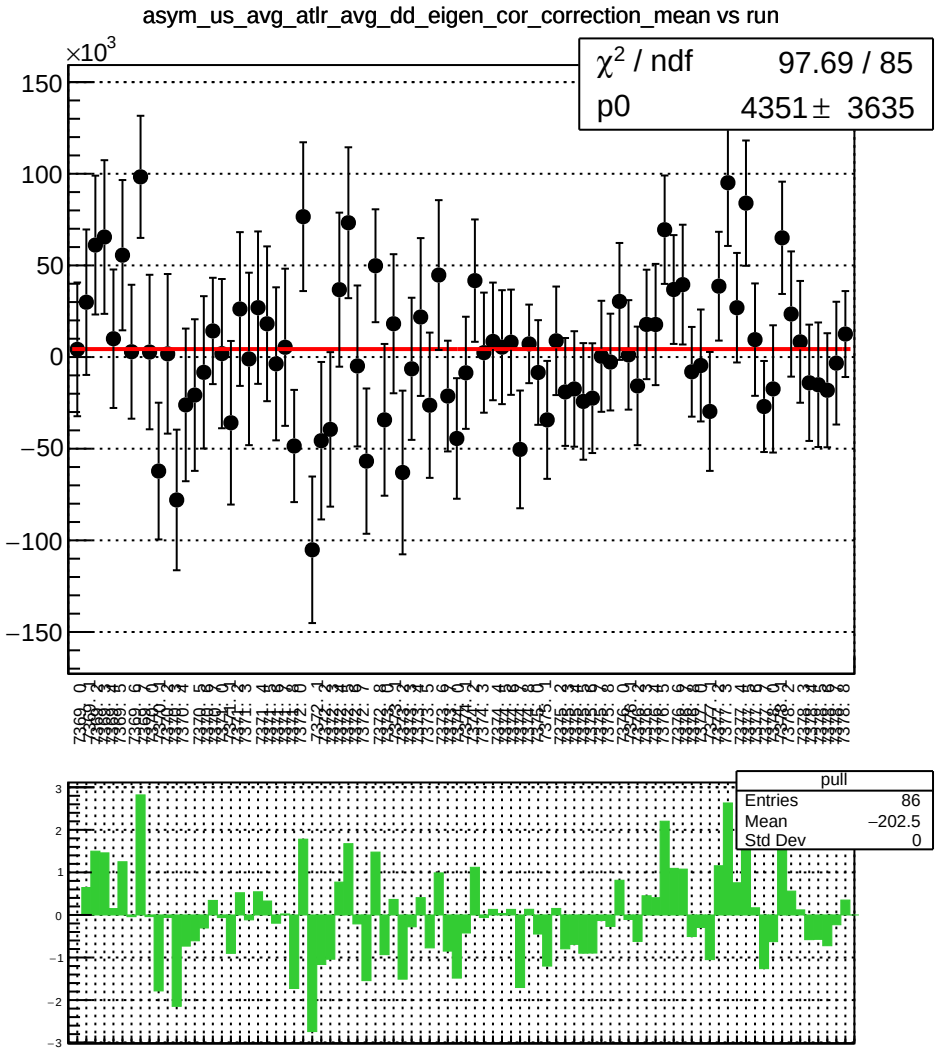

pull1D
Entries 86
Mean −0.005539
Std Dev 1.066

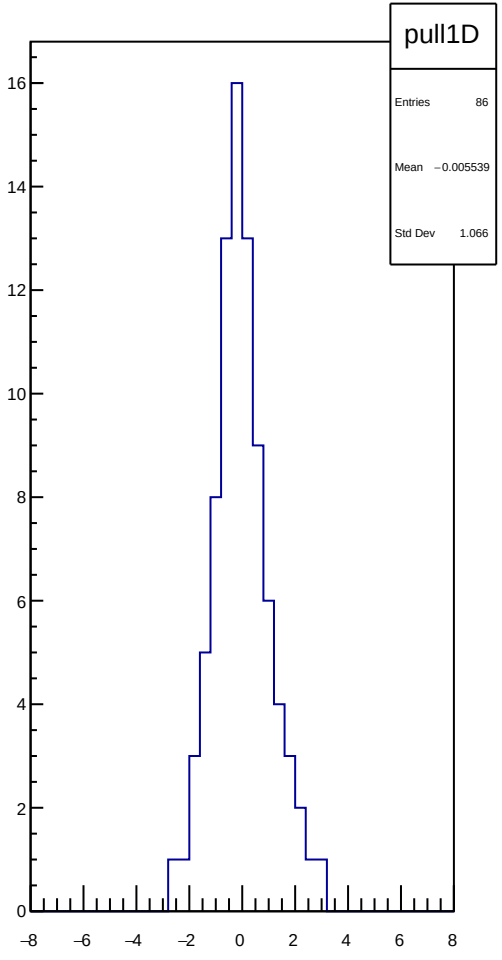

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.18e+04 / 85
p0 3304 ± 2.57
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

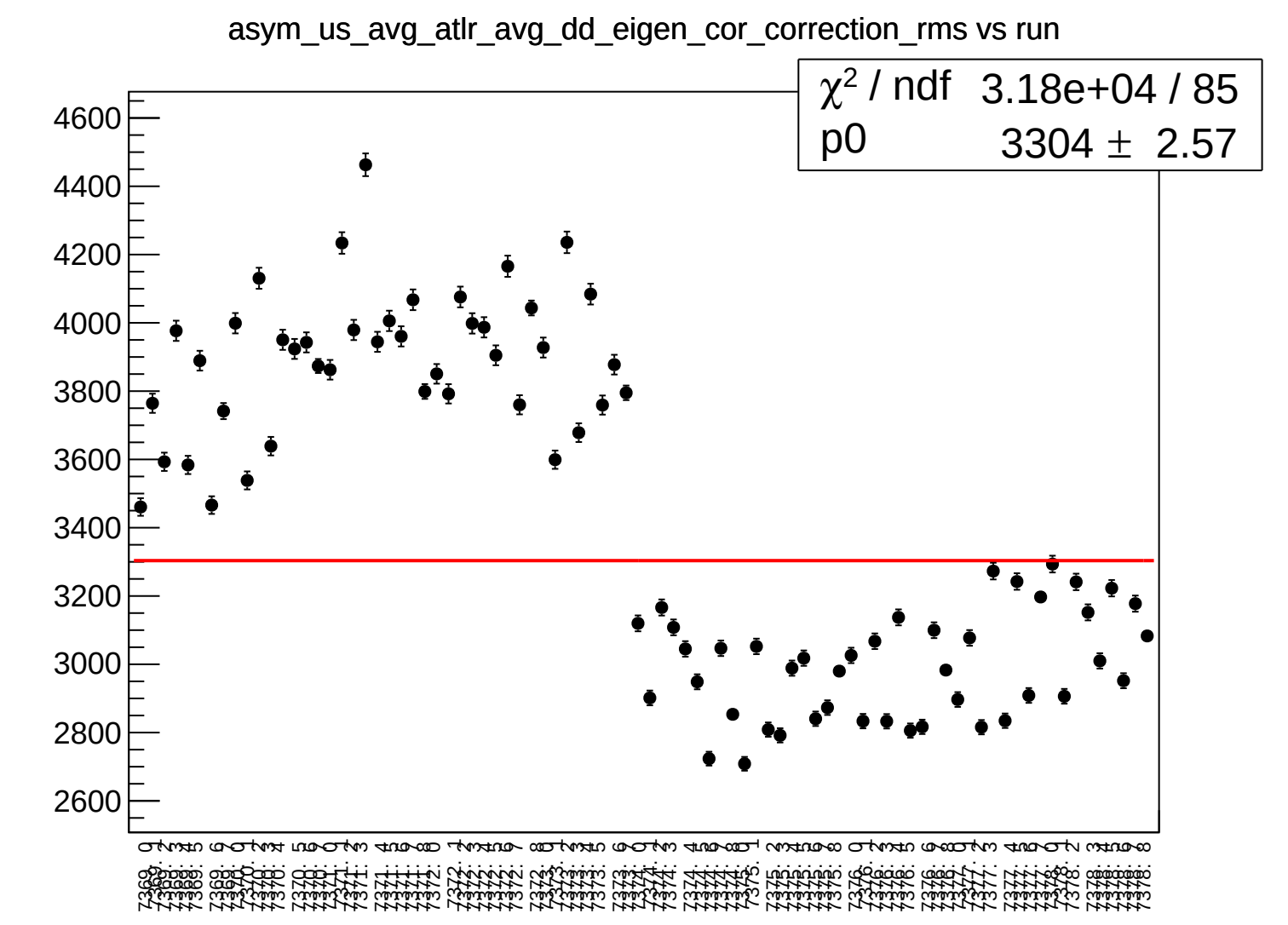

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 66.63 / 85
p0 3325 ± 1175
pull
Entries 86
Mean 7.286e+04
Std Dev 0

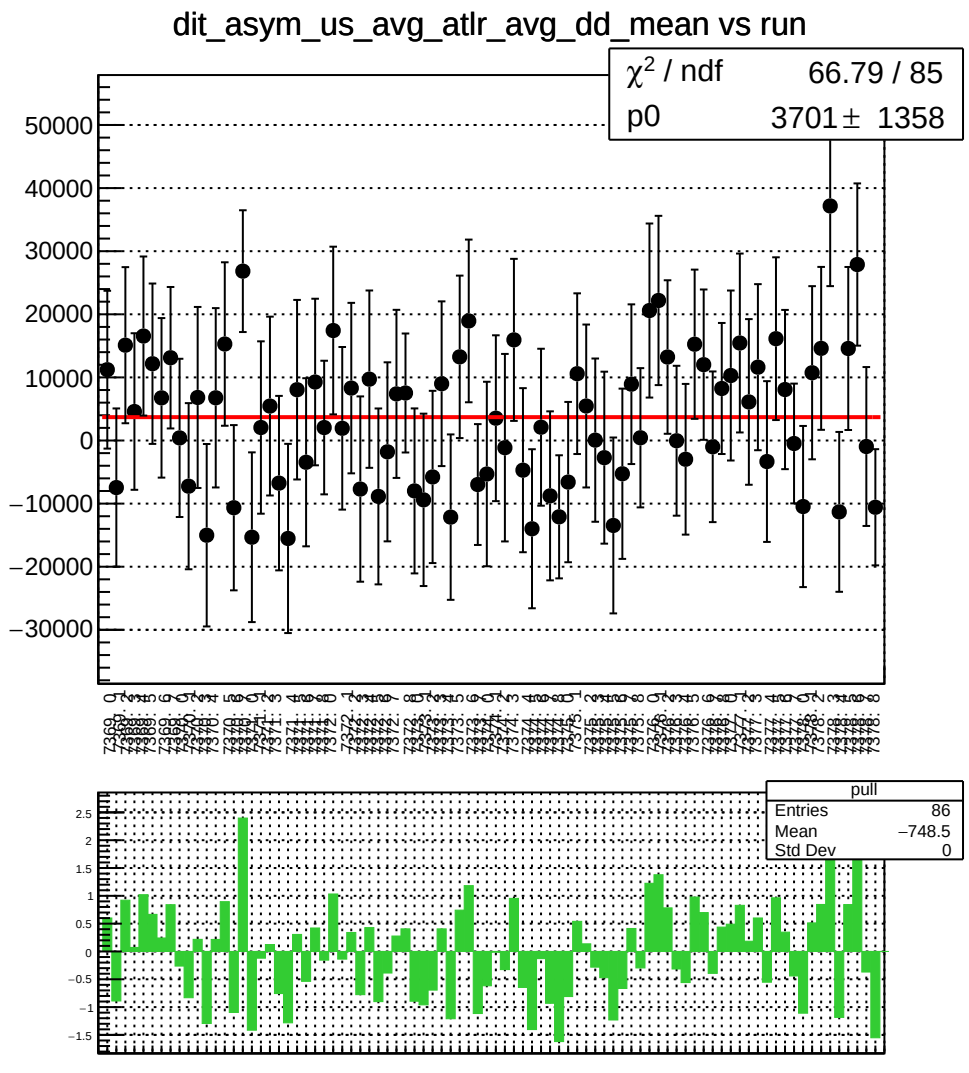

pull1D
Entries 86
Mean 3.545e−05
Std Dev 0.8802

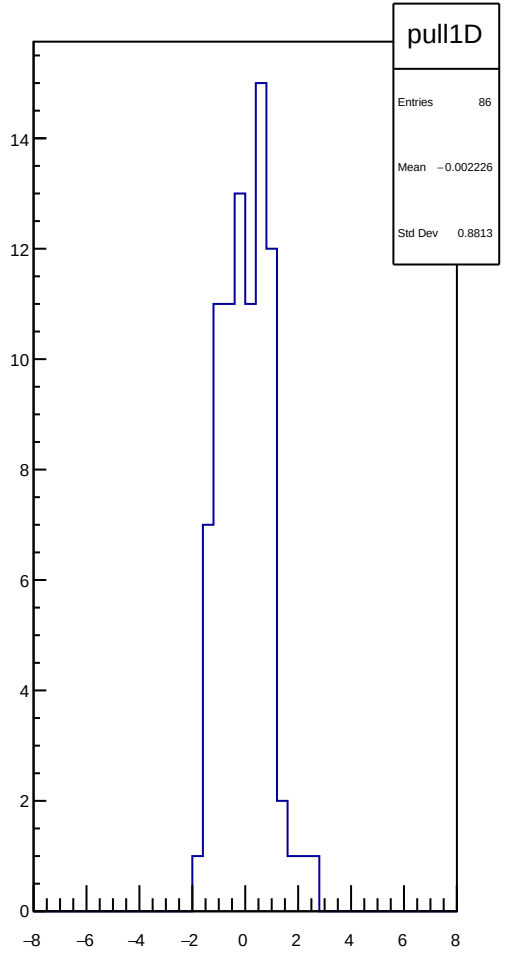

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 111.6 / 85
p0 1078 ± 0.8308
1110
1100
1090
1080
1070
1060
1050

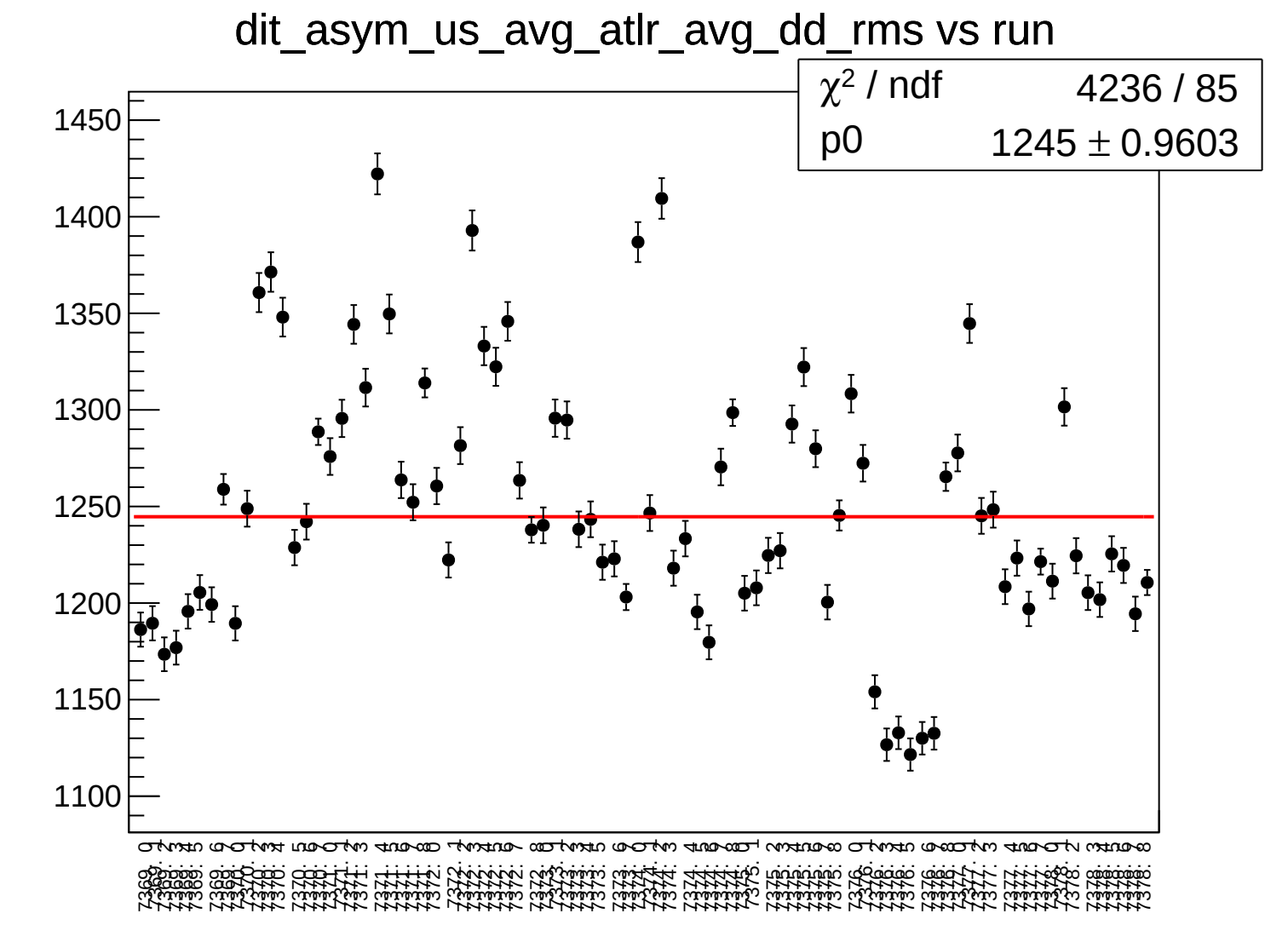

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.69 / 85
p0 4351 ± 3635
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −202.5
Std Dev 0
3
2
1
0
−1
−2
−3

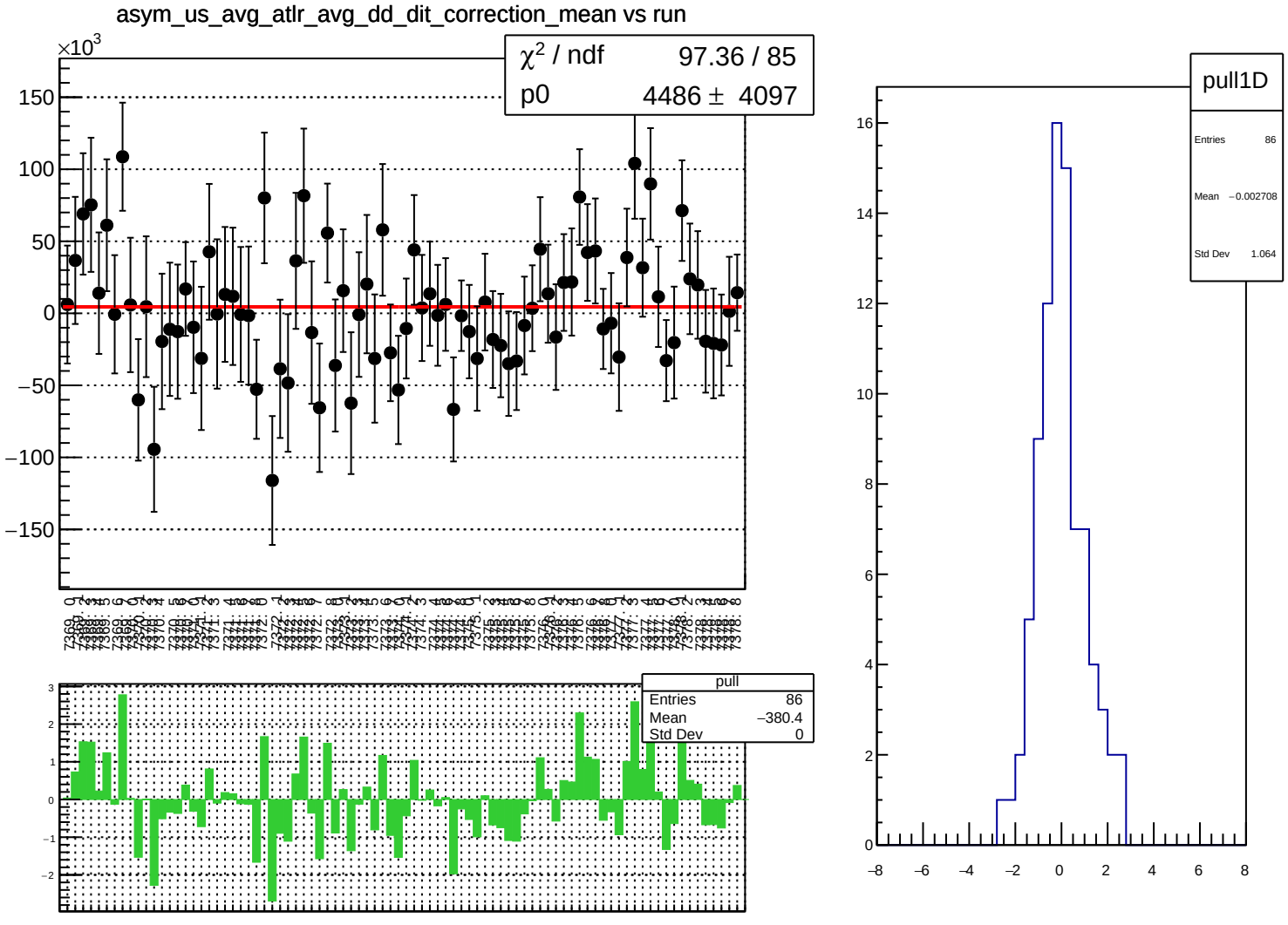

pull1D
Entries 86
Mean −0.005539
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

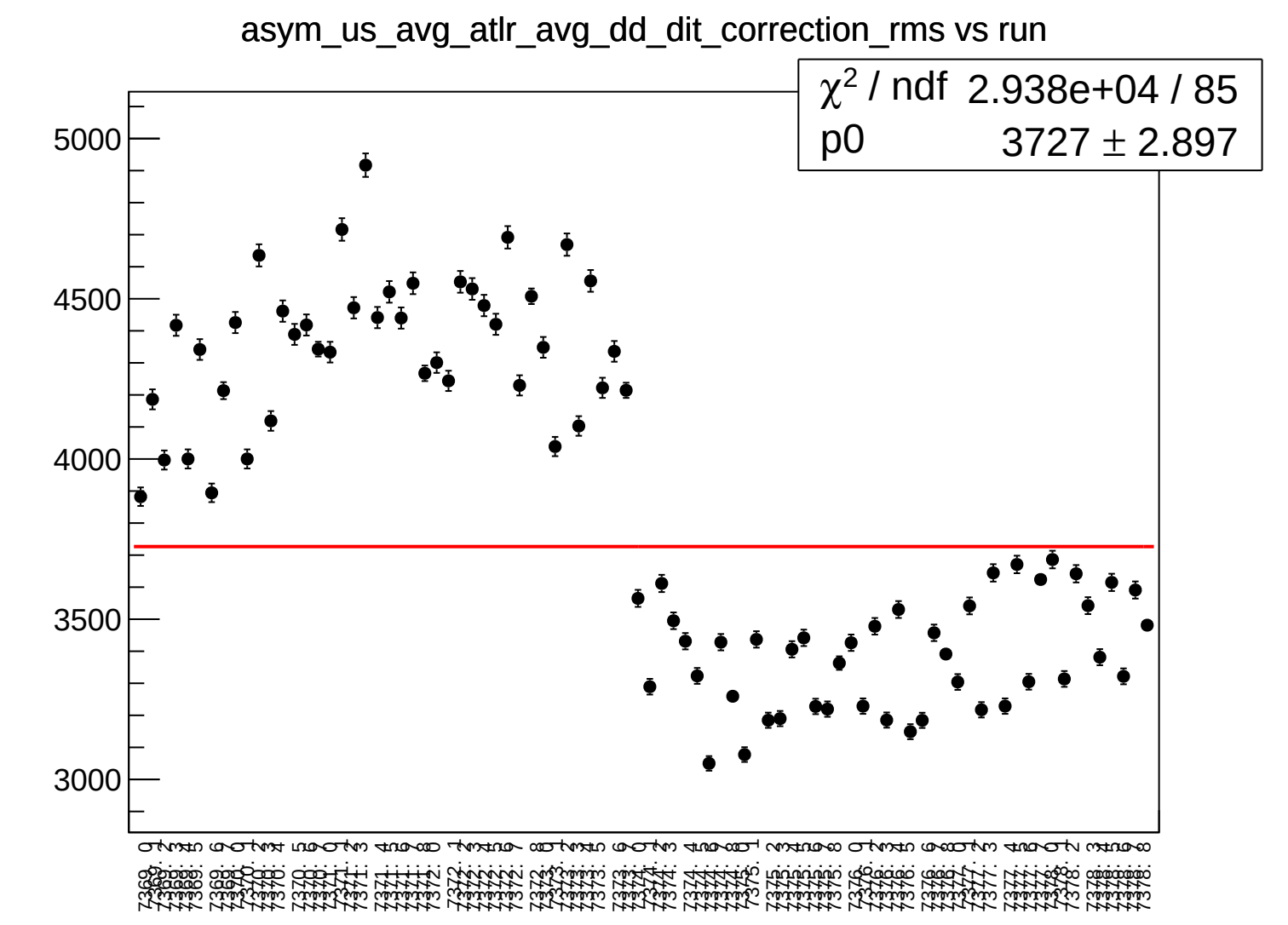

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.18e+04 / 85
p0 3304 ± 2.57
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

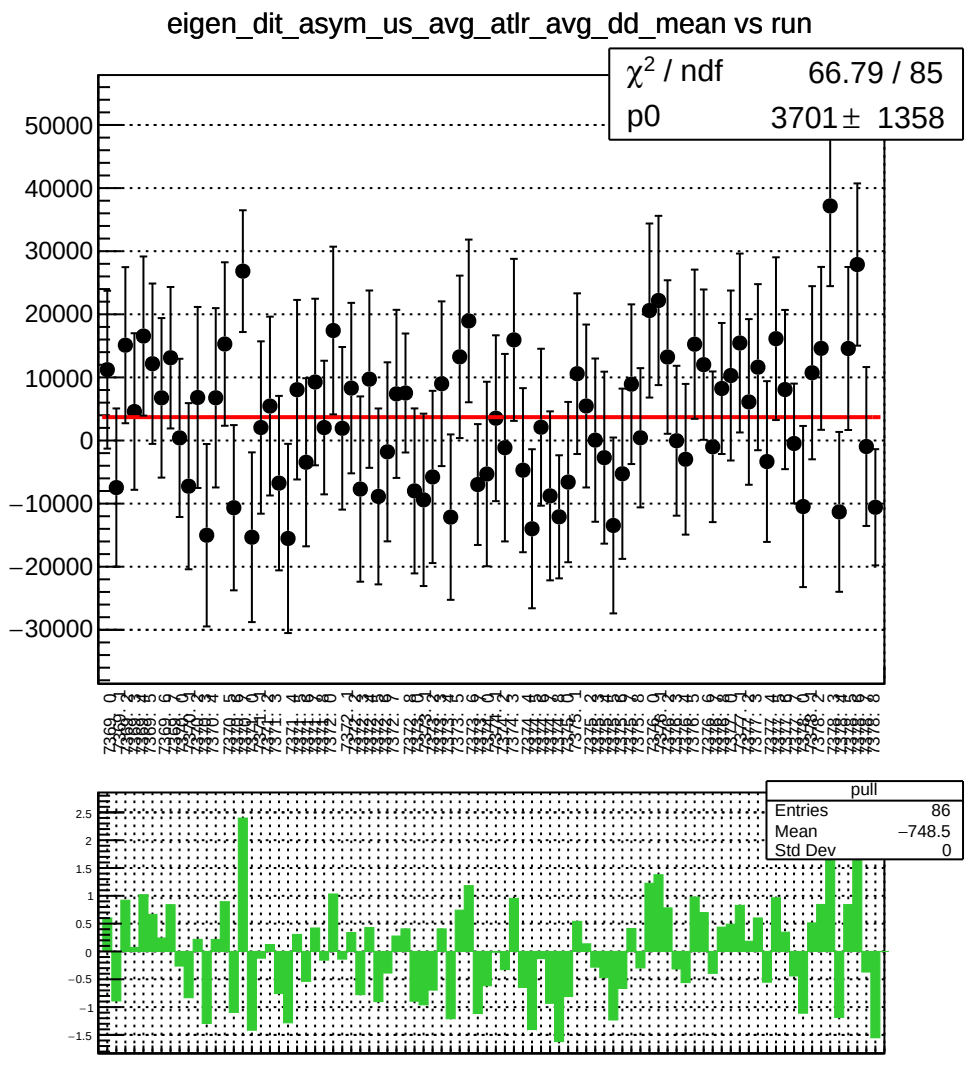

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 66.79 / 85
p0 3701 ± 1358
pull
Entries 86
Mean −748.5
Std Dev 0

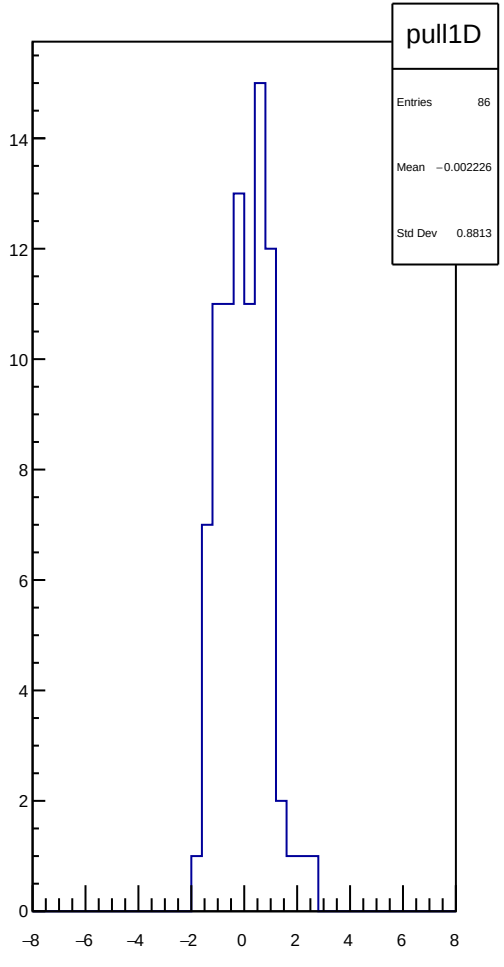

pull1D
Entries 86
Mean −0.002226
Std Dev 0.8813

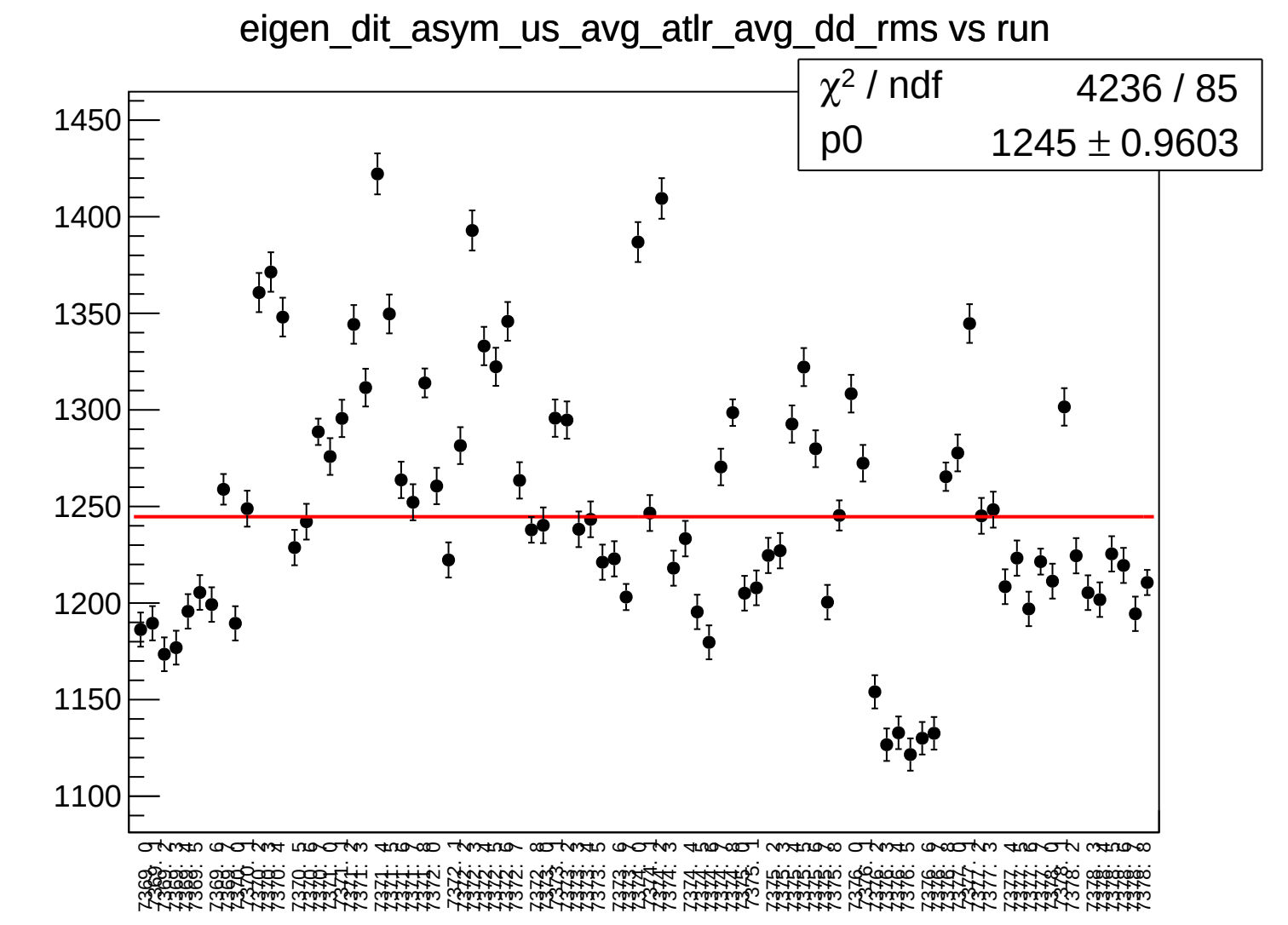

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 4236 / 85
p0 1245 ± 0.9603
1450
1400
1350
1300
1250
1200
1150
1100

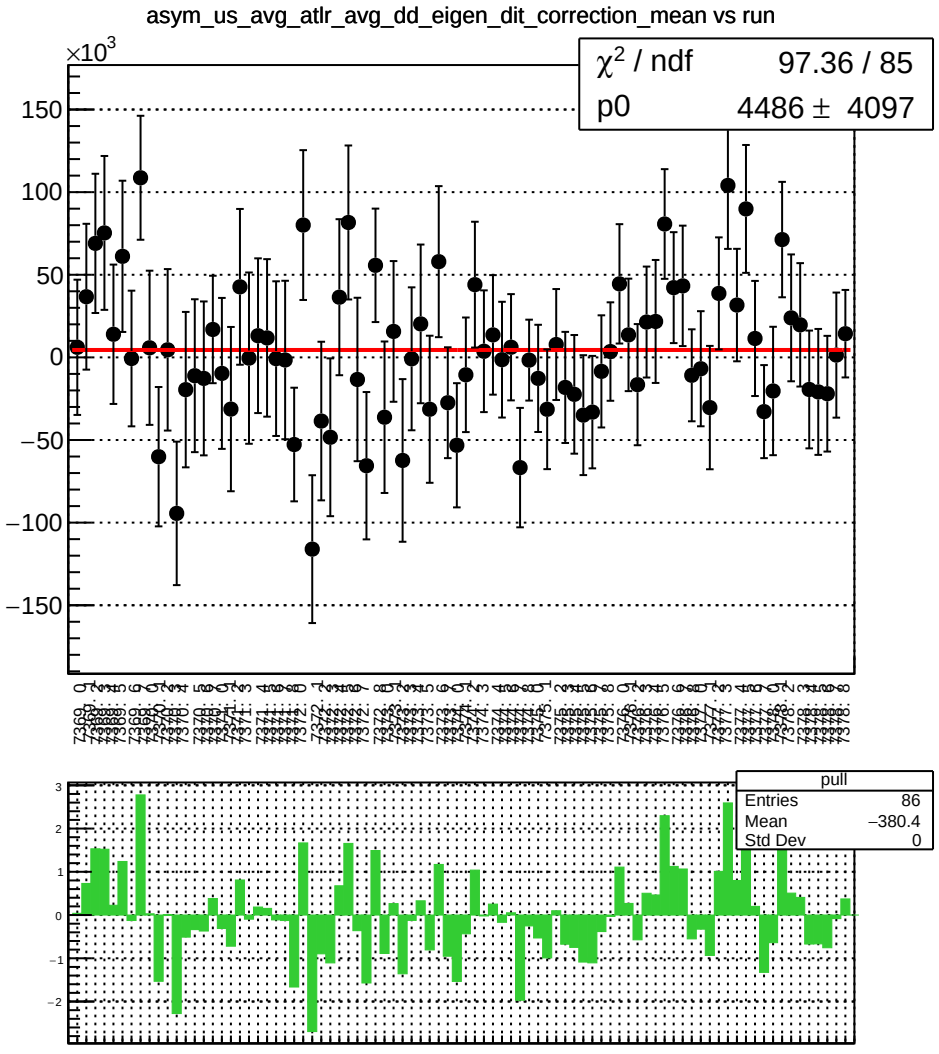

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.36 / 85
p0 4486 ± 4097
pull
Entries 86
Mean −380.4
Std Dev 0
pull1D
Entries 86
Mean −0.002708
Std Dev 1.064

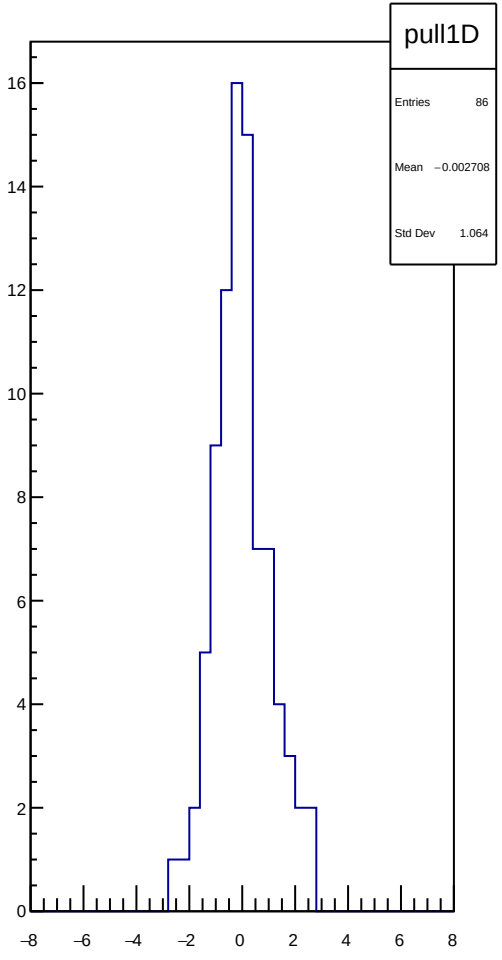

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.938e+04 / 85
p0 3727 ± 2.897
5000
4500
4000
3500
3000

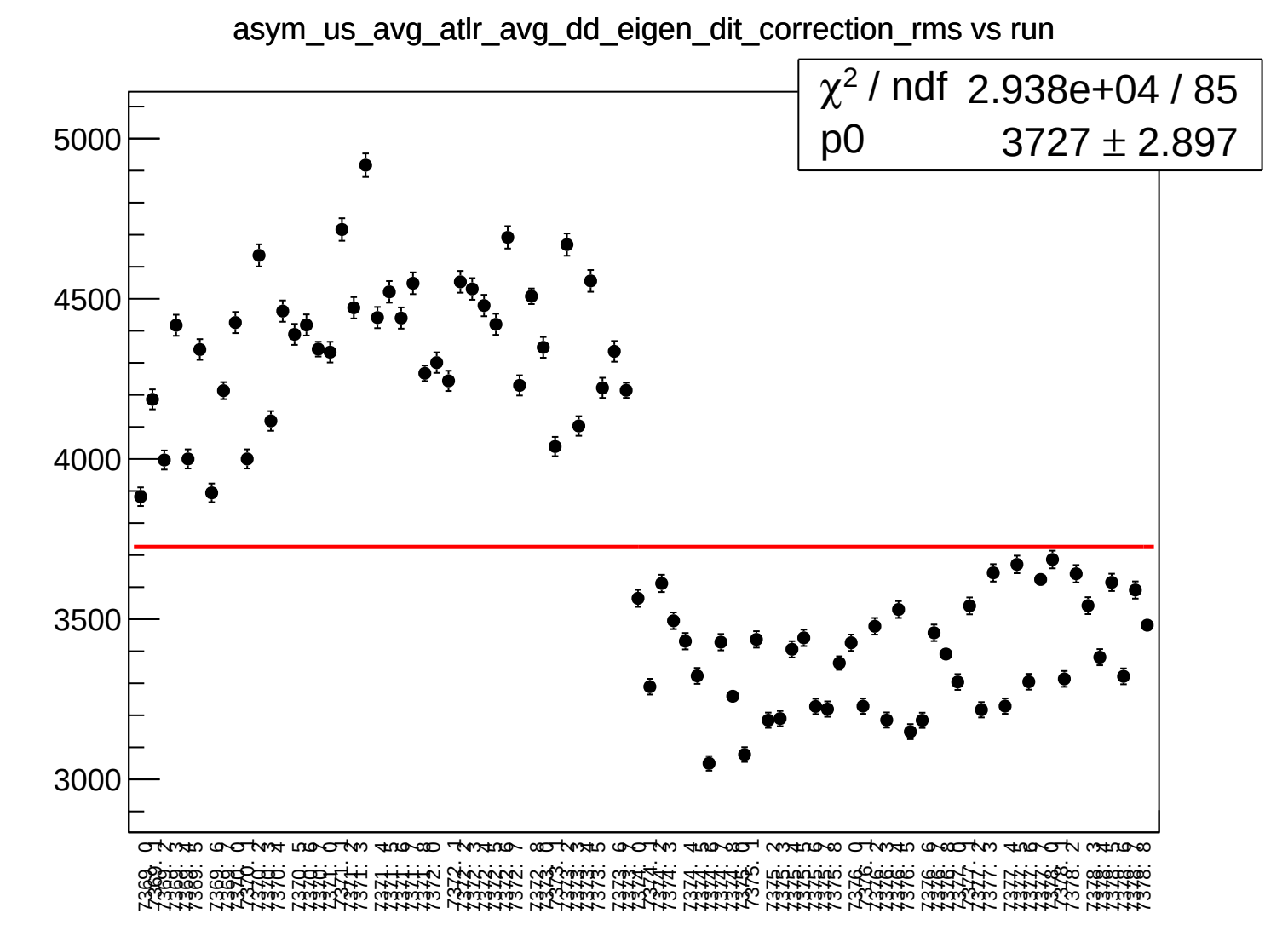

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 66.79 / 85
p0 3701 ± 1358
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −748.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

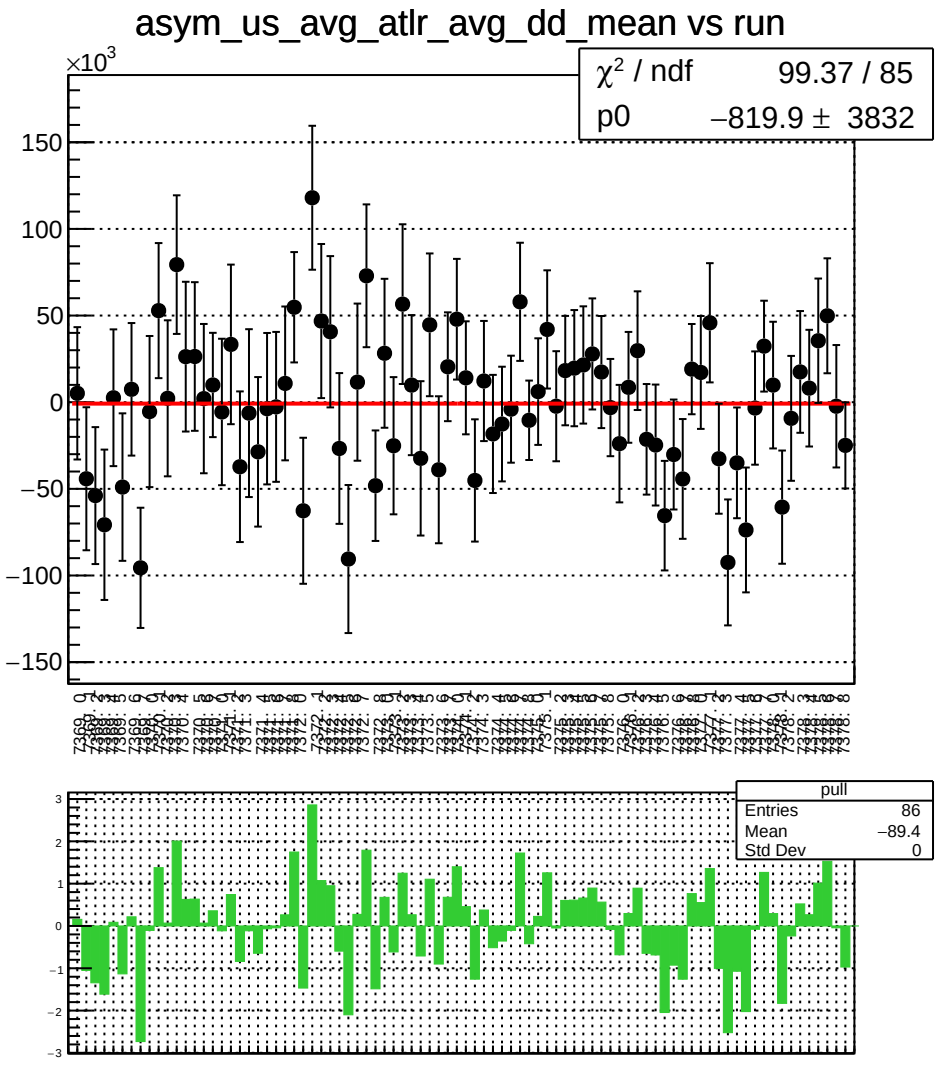

pull1D
Entries 86
Mean −0.002226
Std Dev 0.8813
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

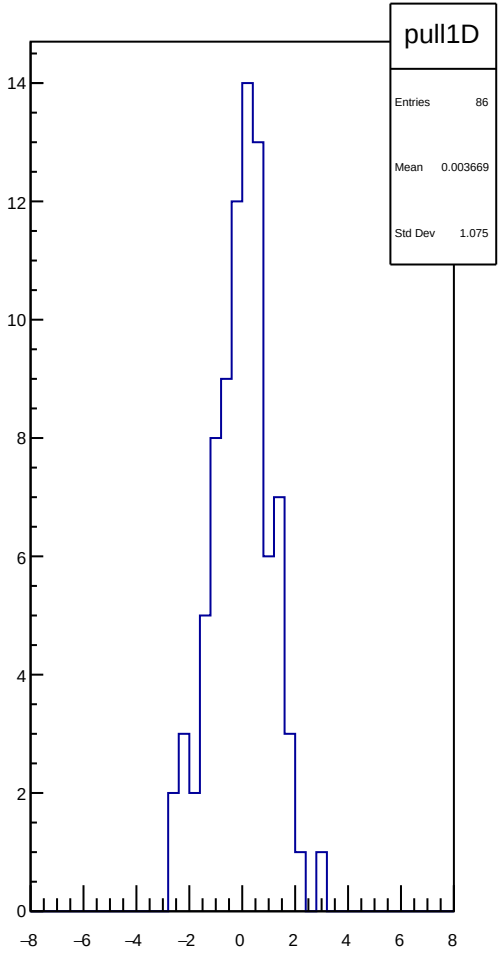

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 4236 / 85
p0 1245 ± 0.9603
1450
1400
1350
1300
1250
1200
1150
1100

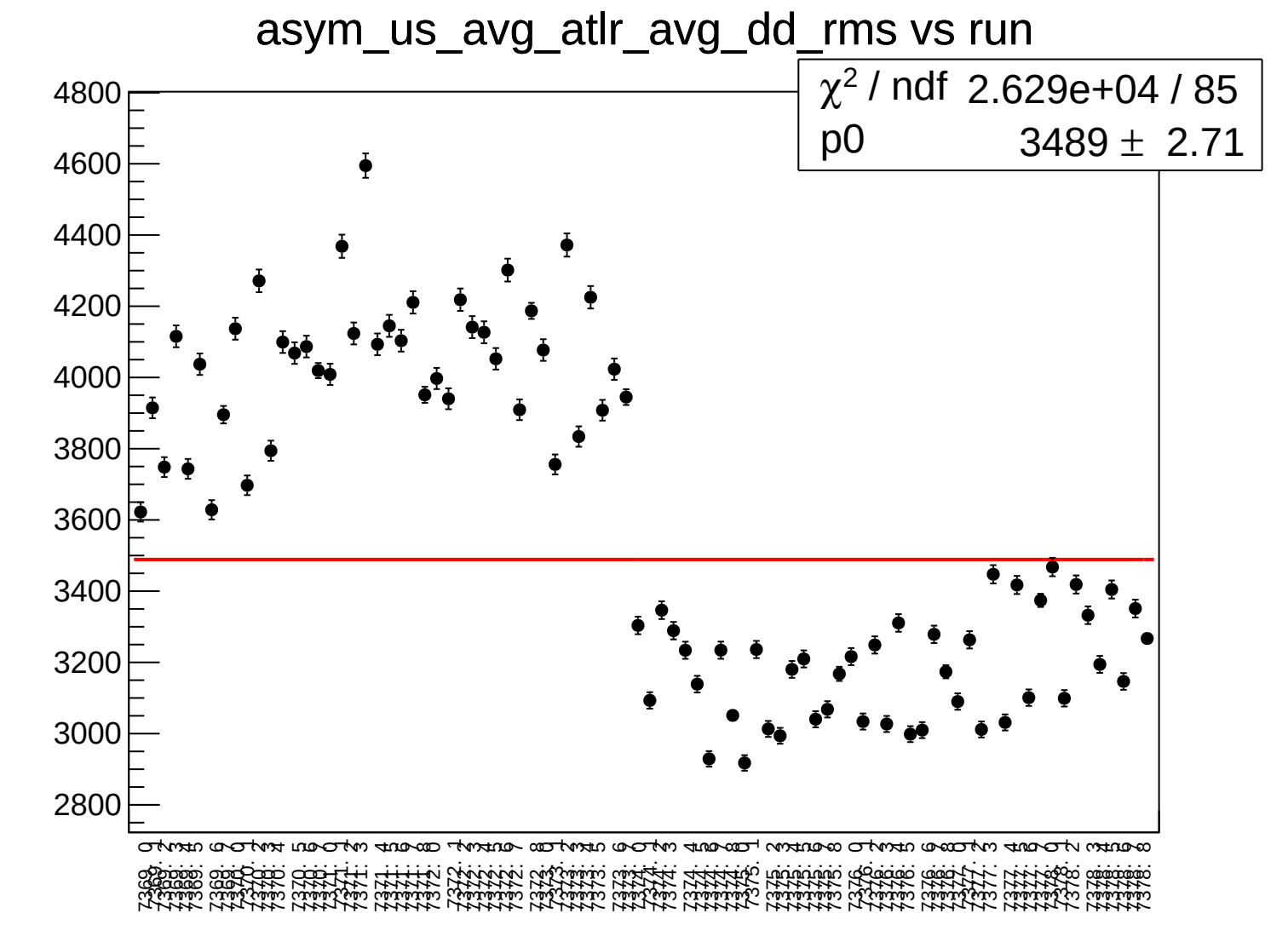

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.36 / 85
p0 4486 ± 4097
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −380.4
Std Dev 0
3
2
1
0
−1
−2

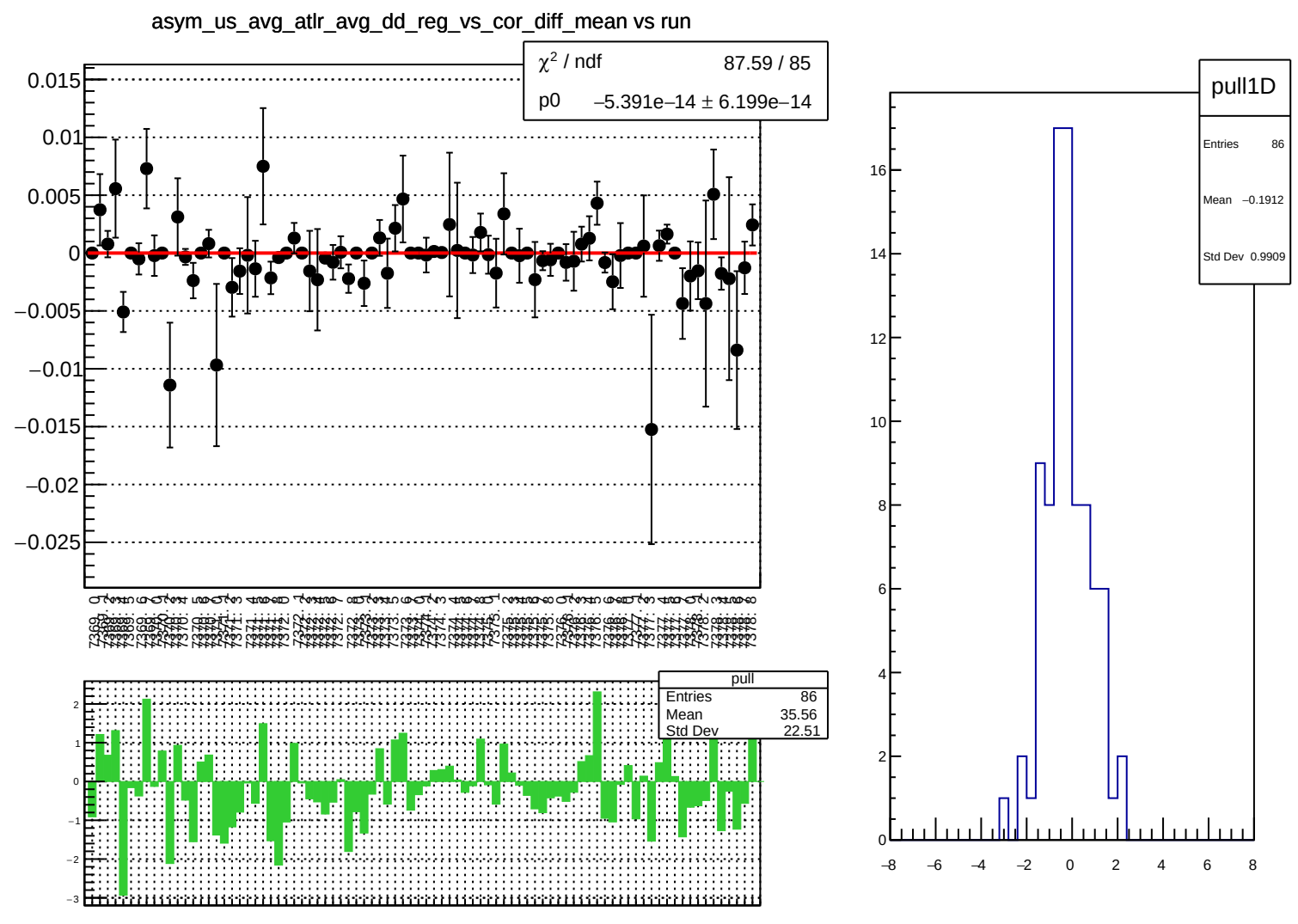

pull1D
Entries 86
Mean −0.002708
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

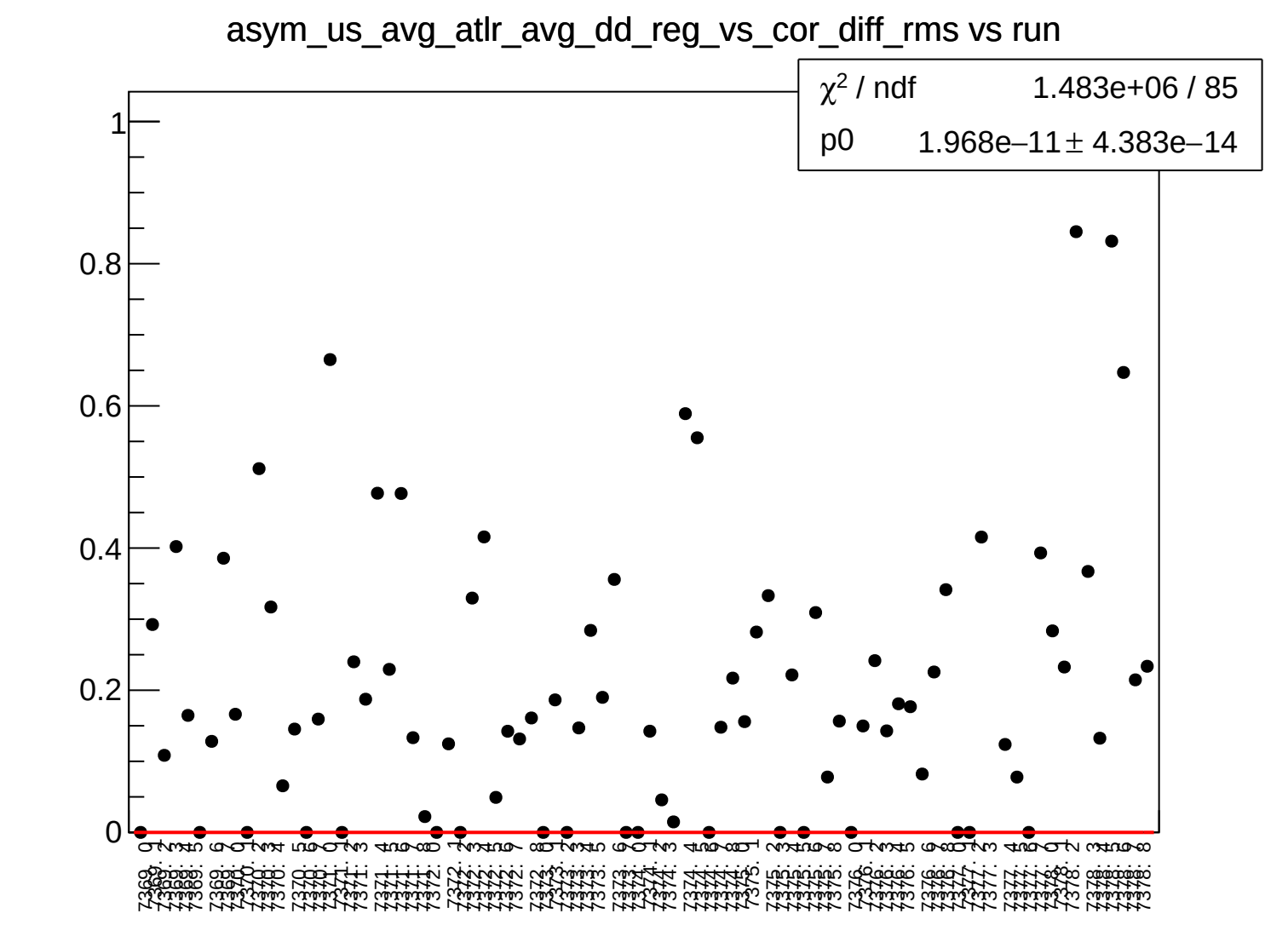

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.938e+04 / 85
p0 3727 ± 2.897
5000
4500
4000
3500
3000

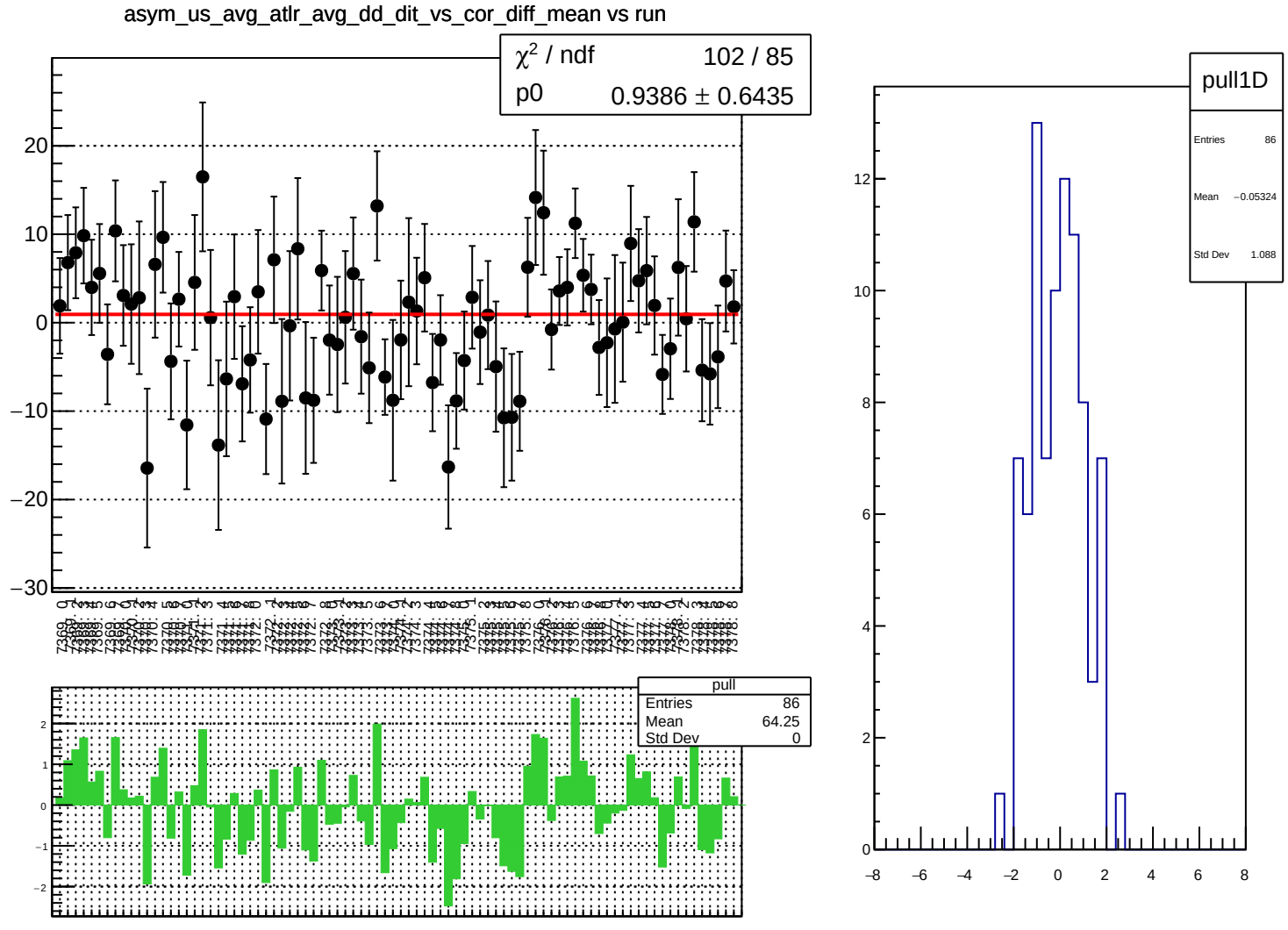

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 99.37 / 85
p0 −819.9 ± 3832
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −89.4
Std Dev 0
3
2
1
0
−1
−2
−3

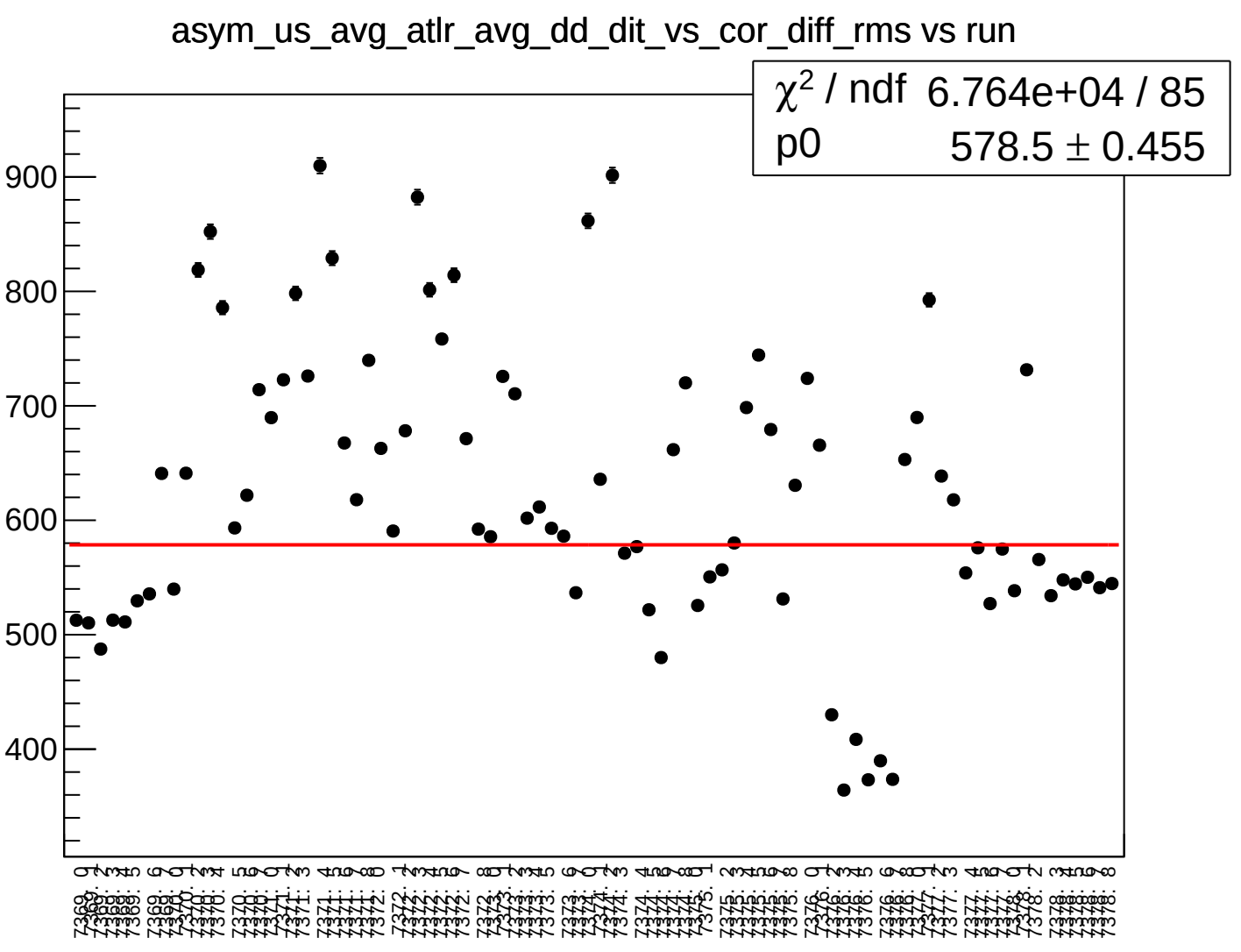

pull1D
Entries 86
Mean 0.003669
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

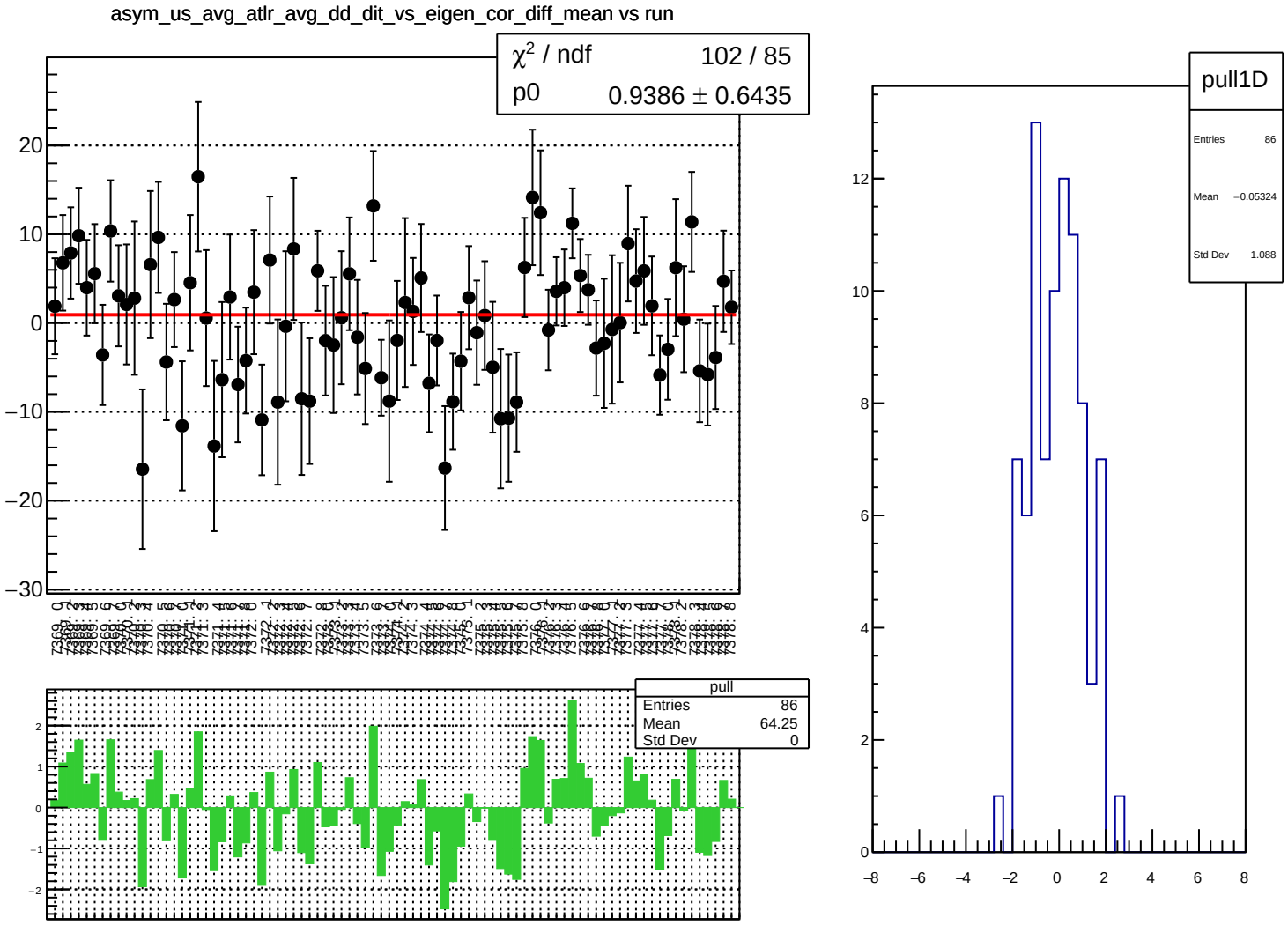

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 2.629e+04 / 85
p0 3489 ± 2.71
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

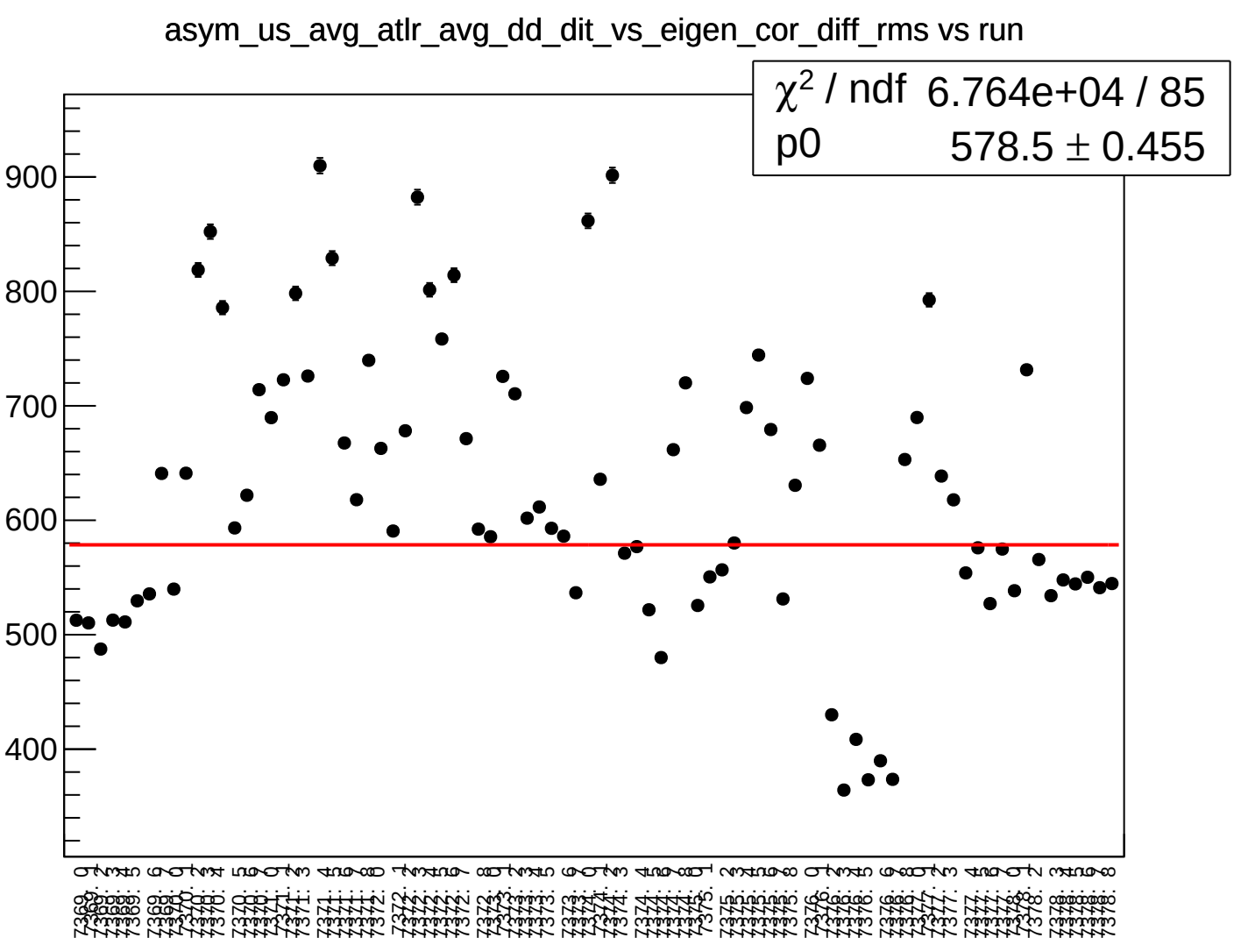

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.59 / 85
p0 −5.391e−14 ± 6.199e−14
pull
Entries 86
Mean 35.56
Std Dev 22.51
pull1D
Entries 86
Mean −0.1912
Std Dev 0.9909

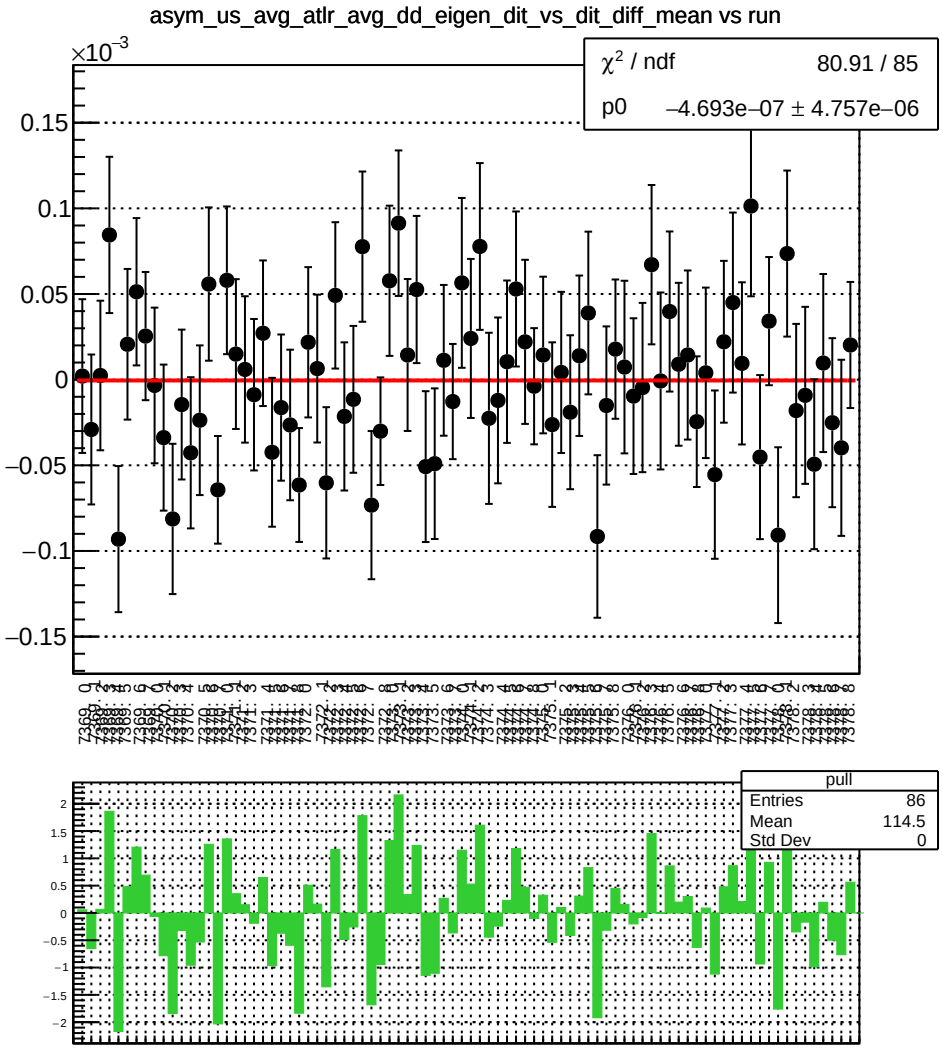

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.483e+06 / 85
p0 1.968e−11 ± 4.383e−14
1
0.8
0.6
0.4
0.2
0

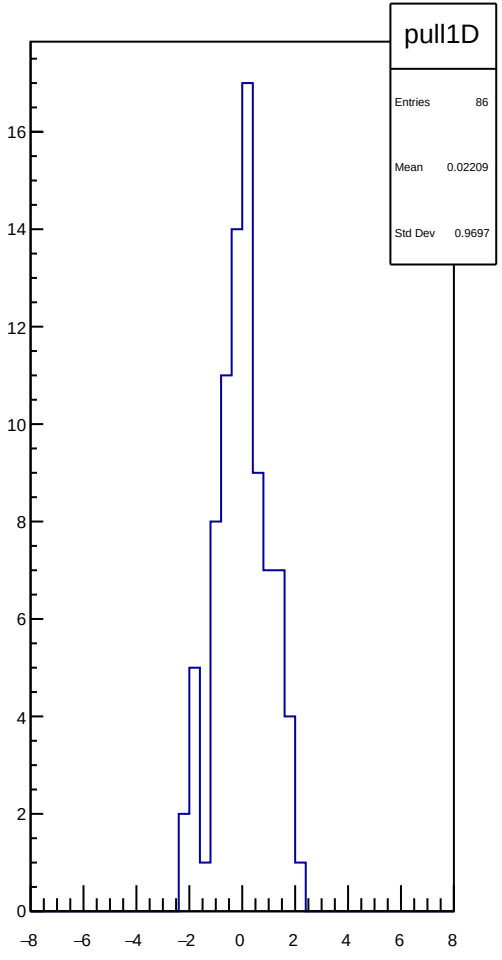

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 85
p0 0.9386 ± 0.6435
pull
Entries 86
Mean 64.25
Std Dev 0
pull1D
Entries 86
Mean −0.05324
Std Dev 1.088

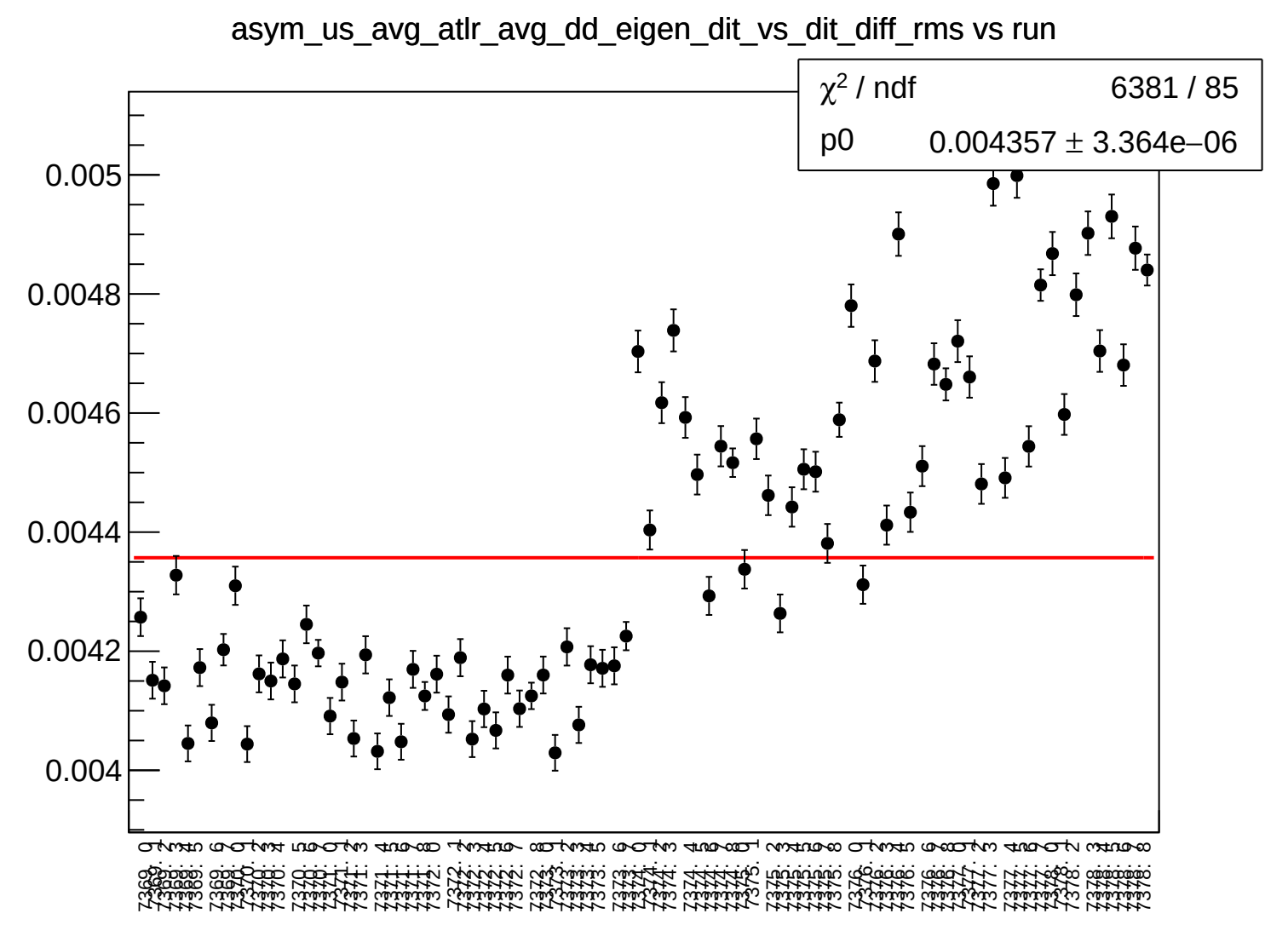

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.764e+04 / 85
p0 578.5 ± 0.455
900
800
700
600
500
400

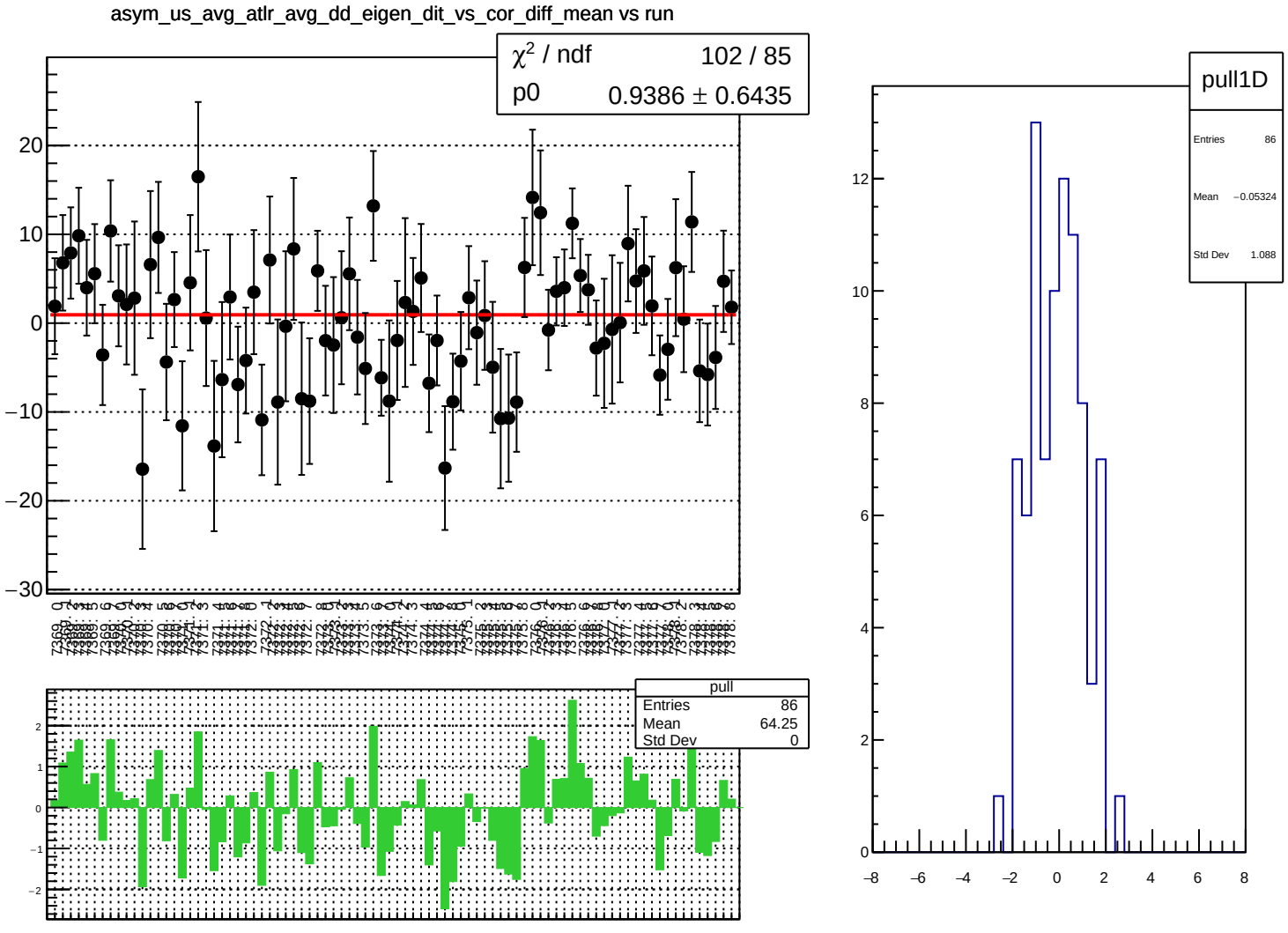

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 85
p0 0.9386 ± 0.6435
pull
Entries 86
Mean 64.25
Std Dev 0
pull1D
Entries 86
Mean −0.05324
Std Dev 1.088

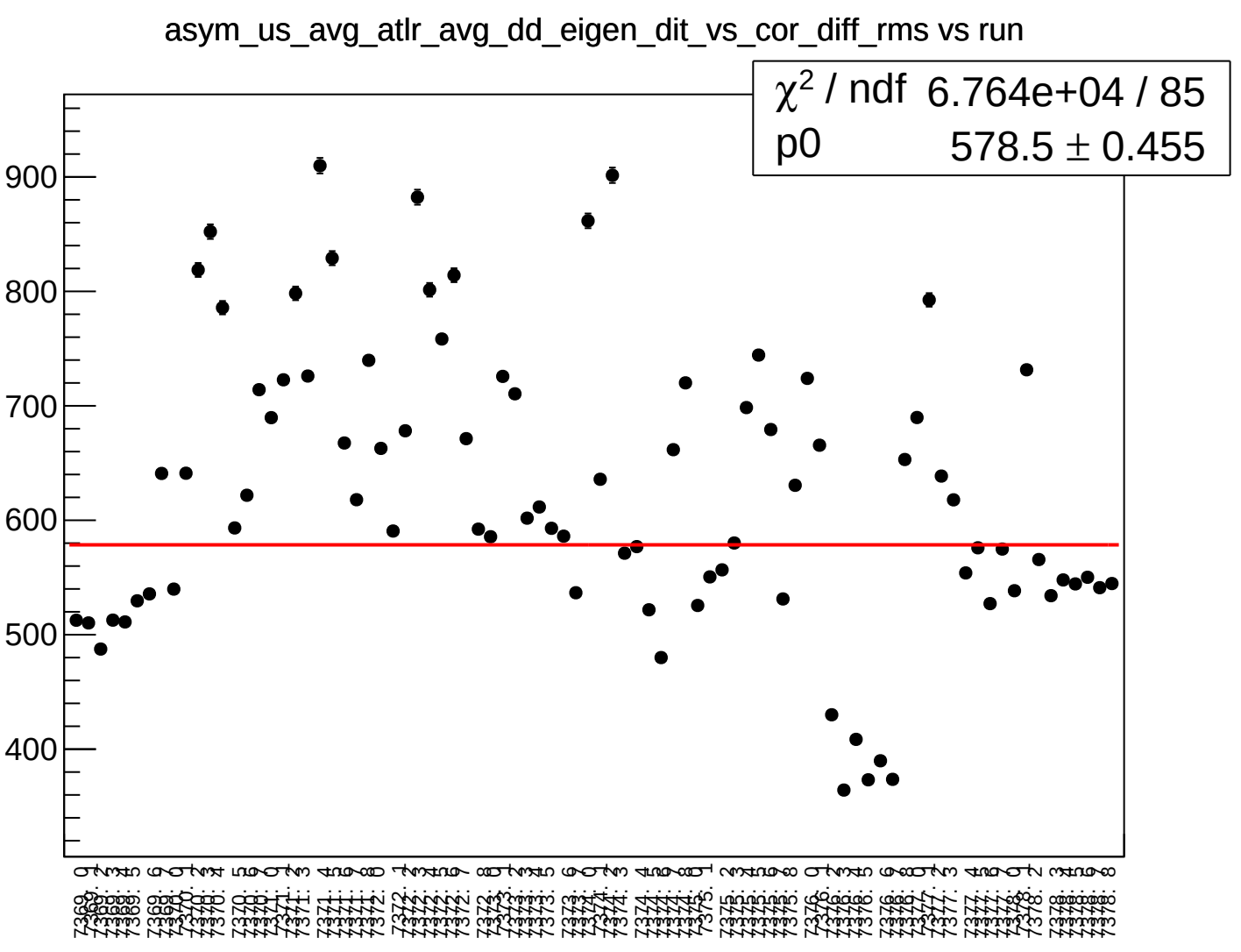

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.764e+04 / 85
p0 578.5 ± 0.455
900
800
700
600
500
400

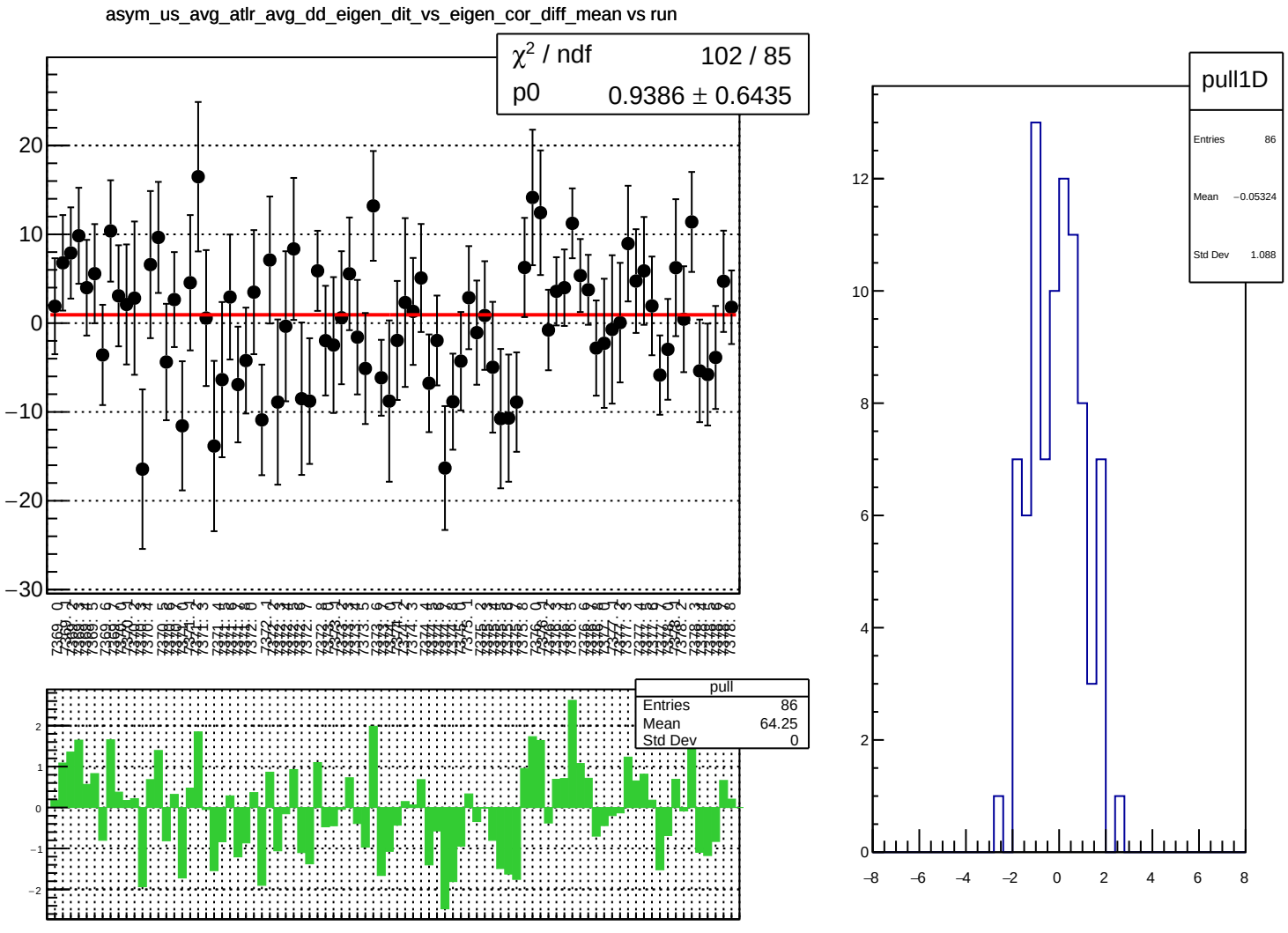

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.91 / 85
p0 −4.693e−07 ± 4.757e−06
pull
Entries 86
Mean 114.5
Std Dev 0

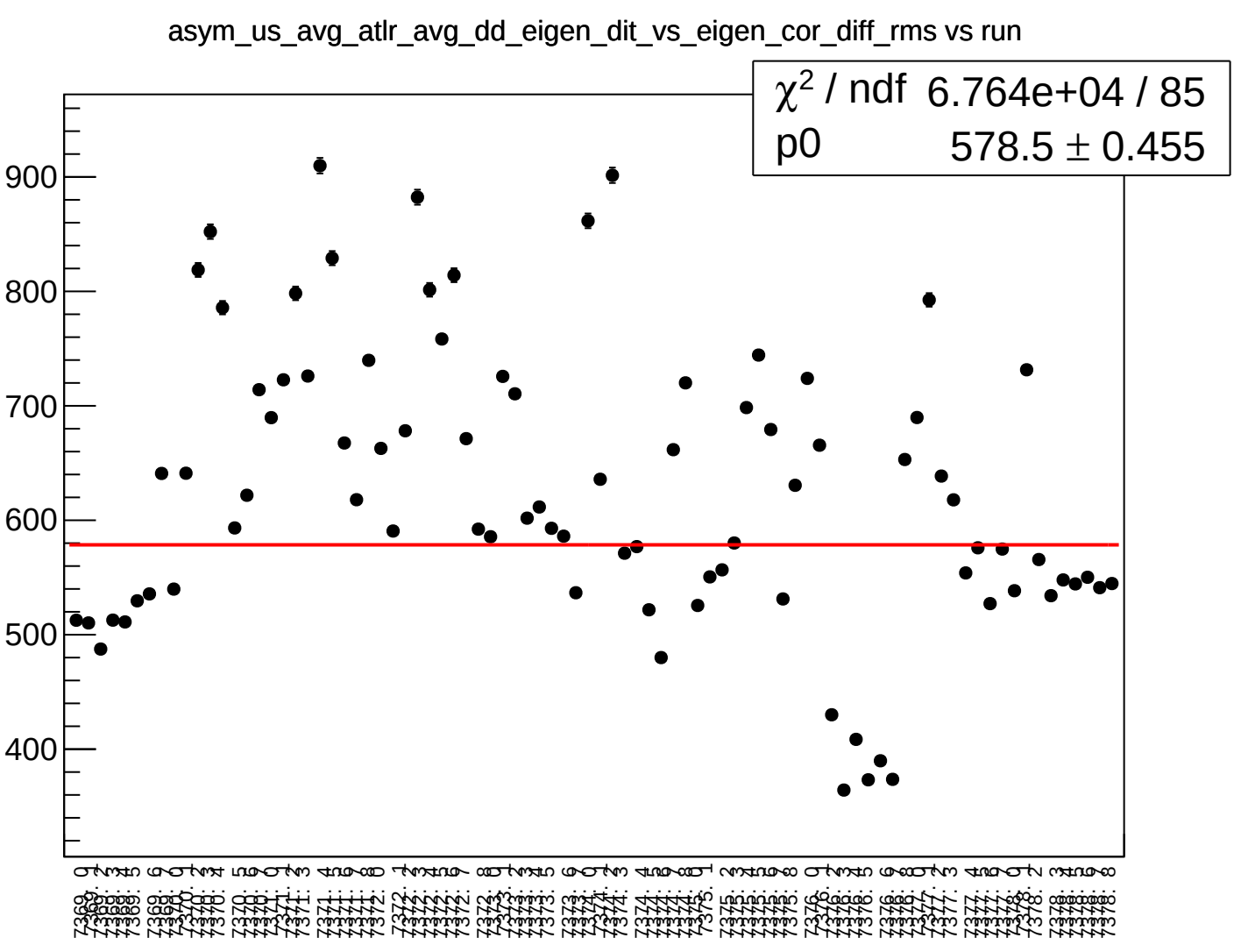

pull1D
Entries 86
Mean 0.02209
Std Dev 0.9697

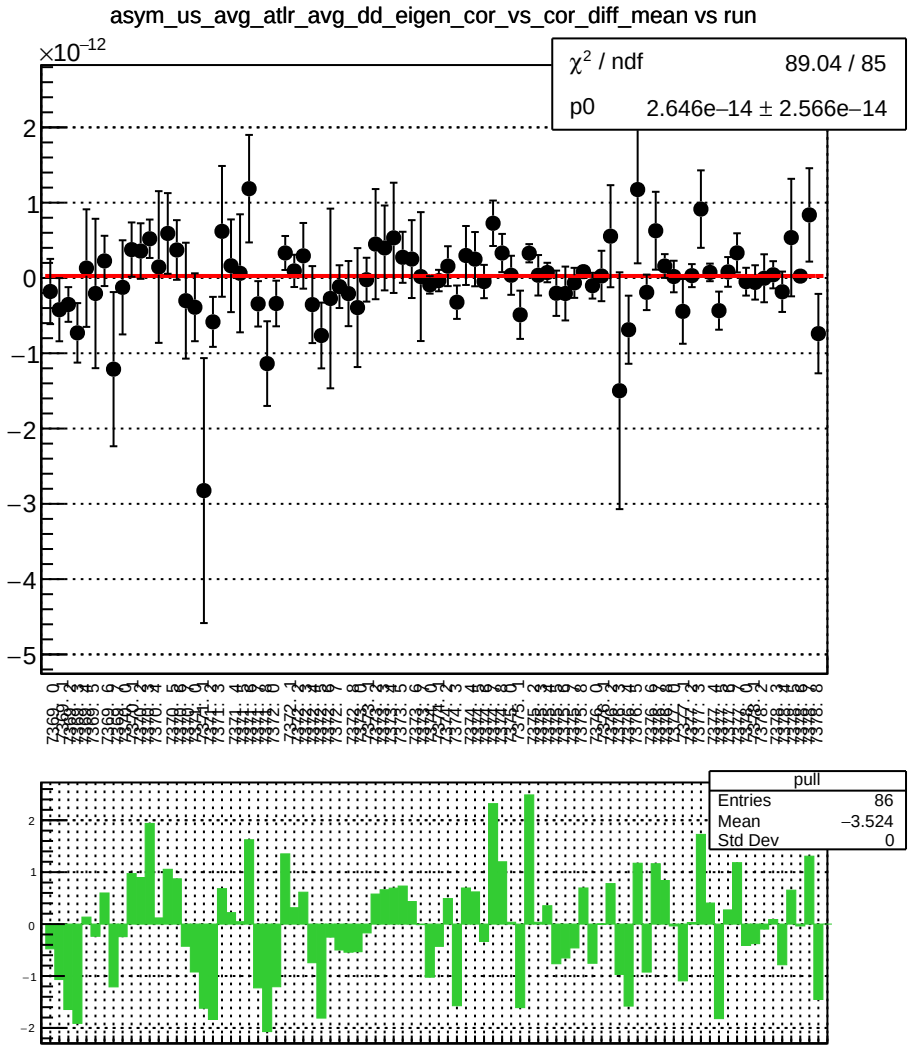

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6381 / 85
p0 0.004357 ± 3.364e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004

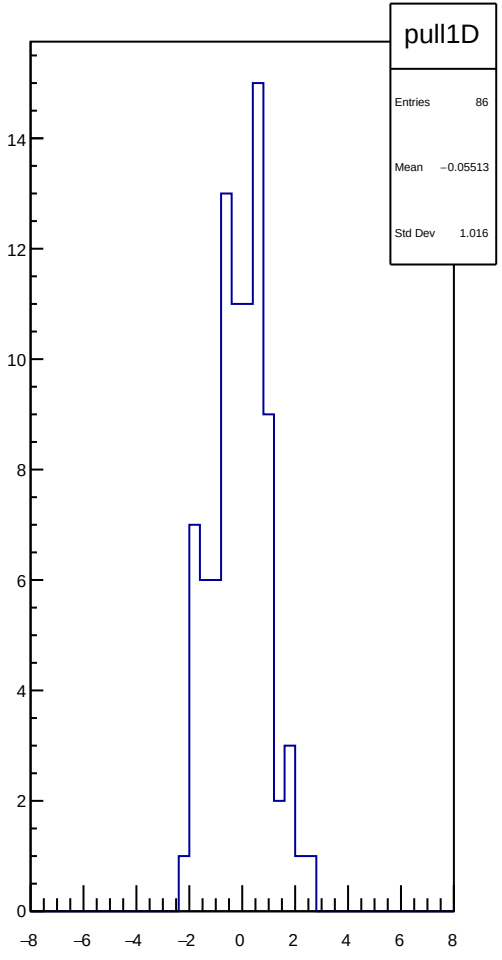

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 85
p0 0.9386 ± 0.6435
pull
Entries 86
Mean 64.25
Std Dev 0
pull1D
Entries 86
Mean −0.05324
Std Dev 1.088

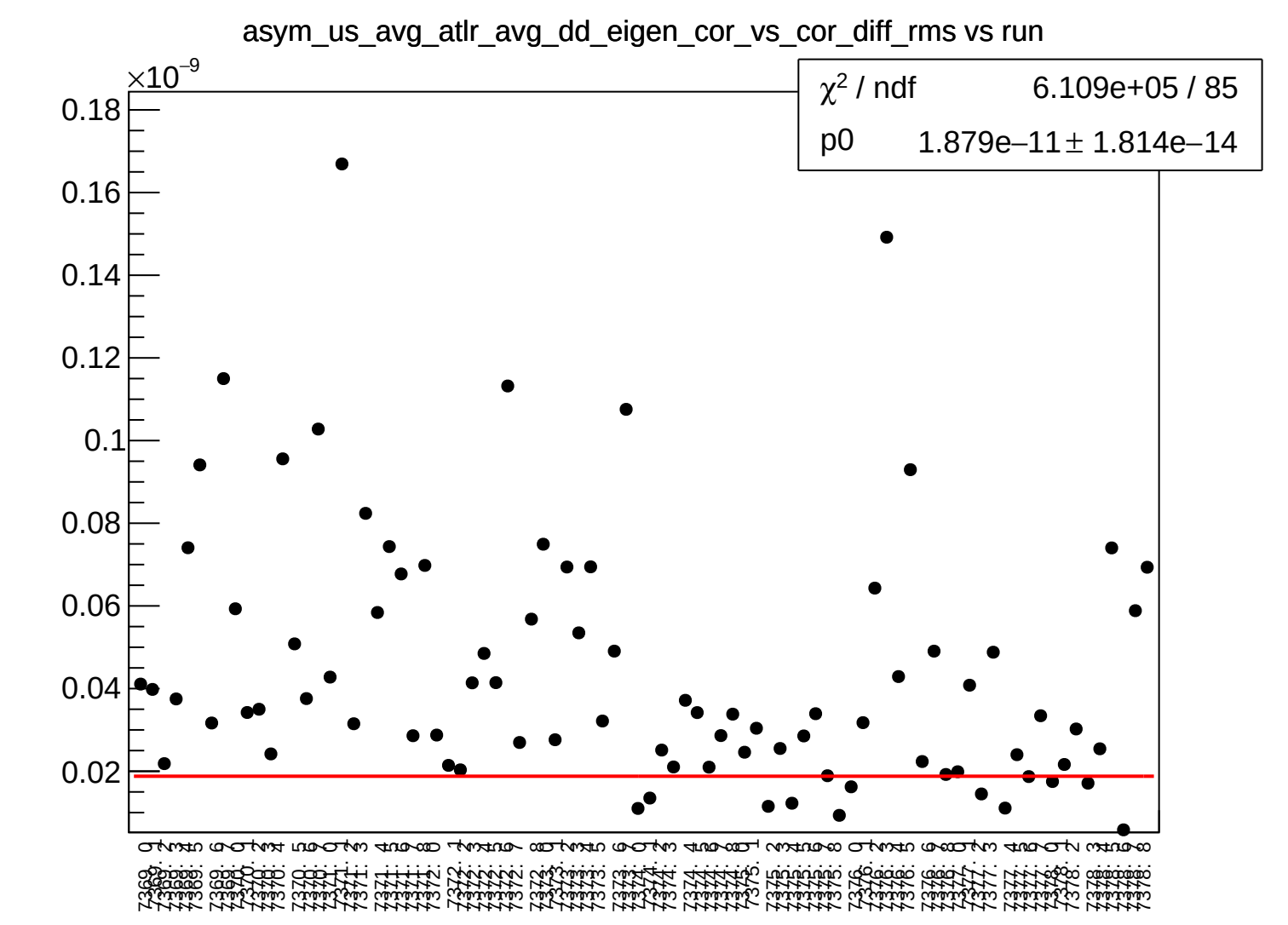

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.764e+04 / 85
p0 578.5 ± 0.455
900
800
700
600
500
400

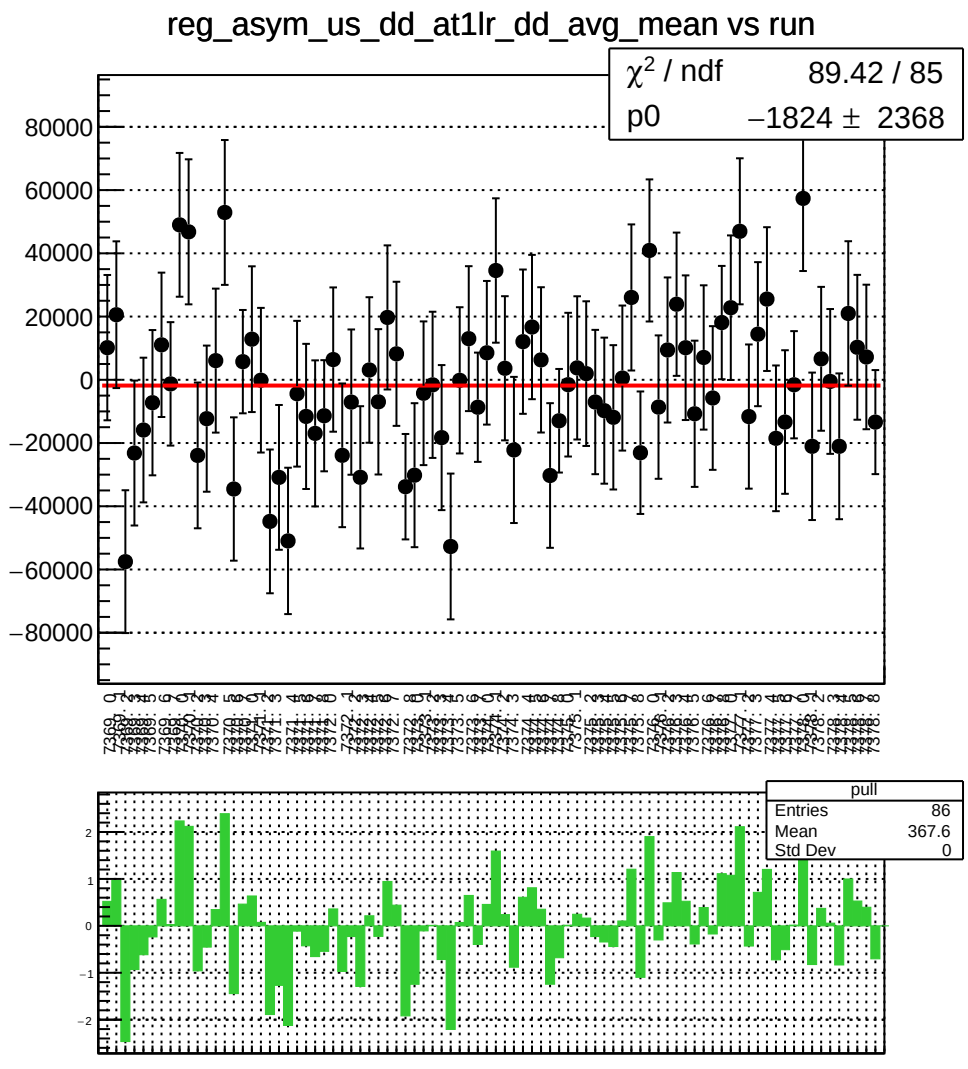

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 85
p0 0.9386 ± 0.6435
pull
Entries 86
Mean 64.25
Std Dev 0
pull1D
Entries 86
Mean −0.05324
Std Dev 1.088

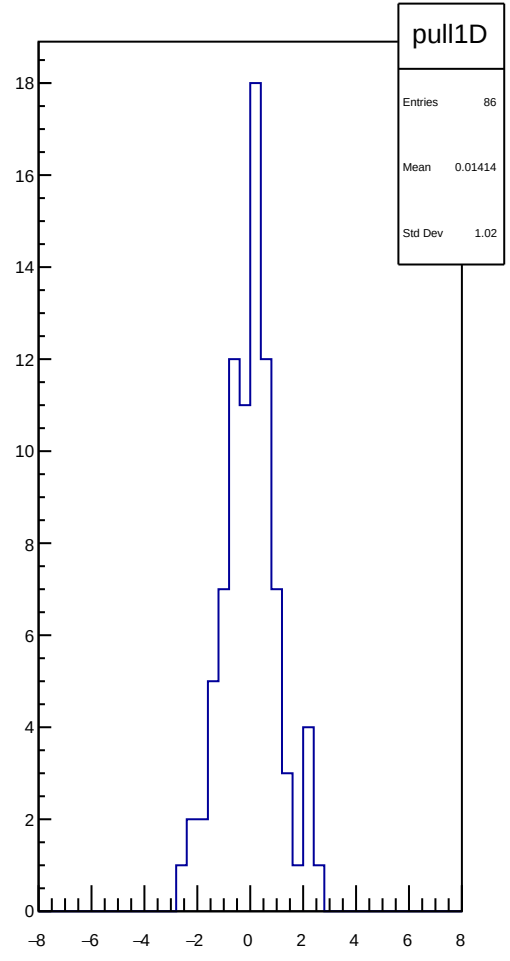

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.764e+04 / 85
p0 578.5 ± 0.455
900
800
700
600
500
400

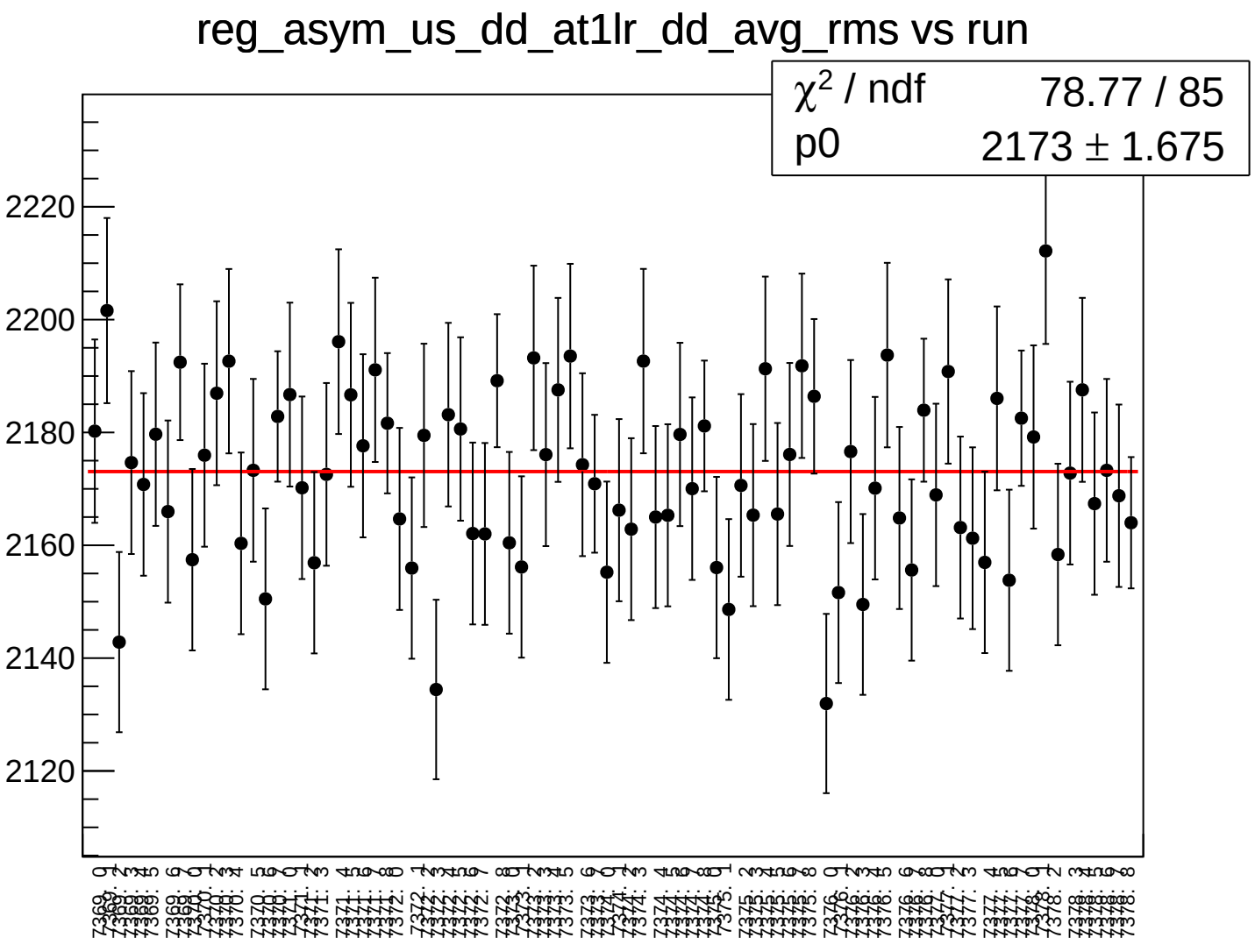

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.04 / 85
p0 2.646e−14 ± 2.566e−14
pull
Entries 86
Mean −3.524
Std Dev 0

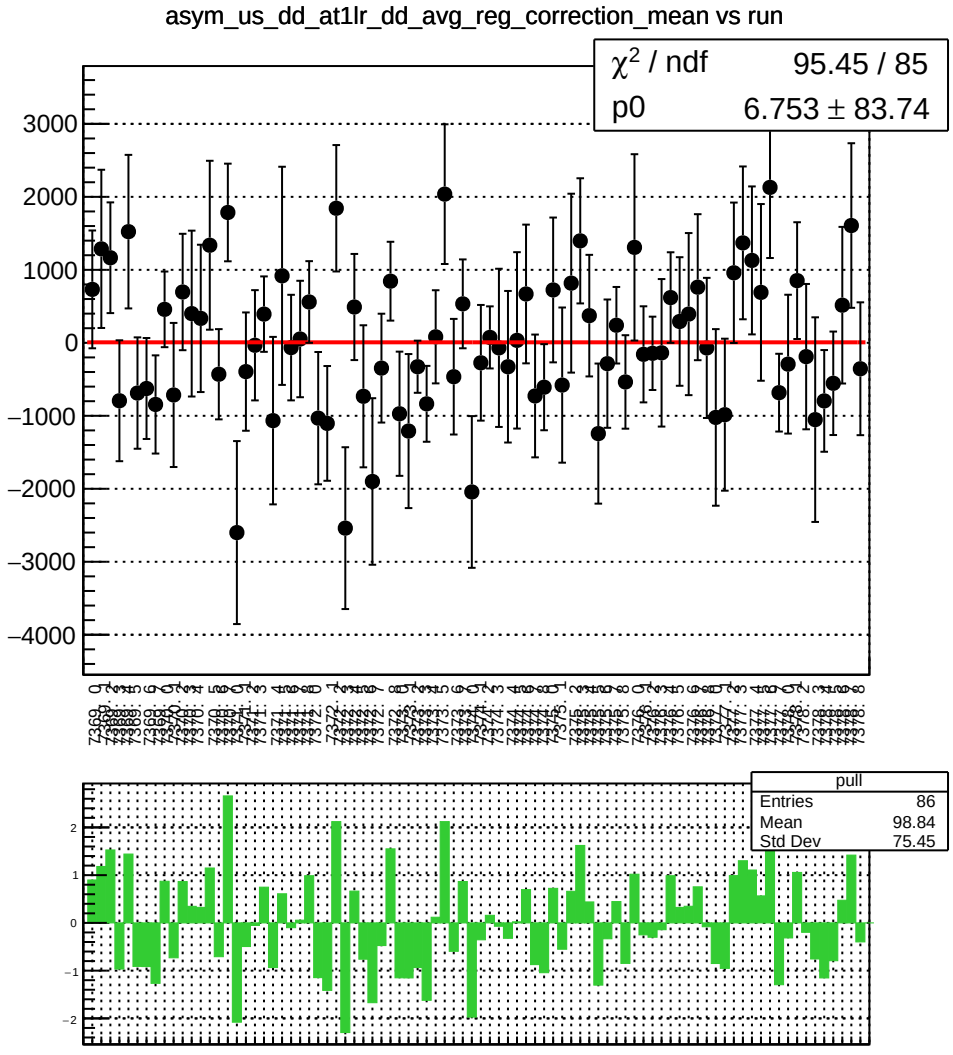

pull1D
Entries 86
Mean −0.05513
Std Dev 1.016

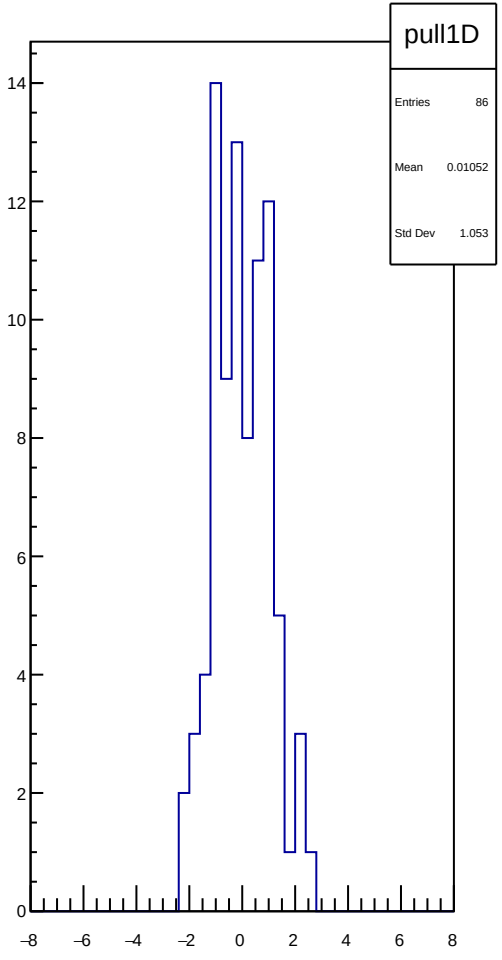

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.109e+05 / 85
p0 1.879e−11 ± 1.814e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

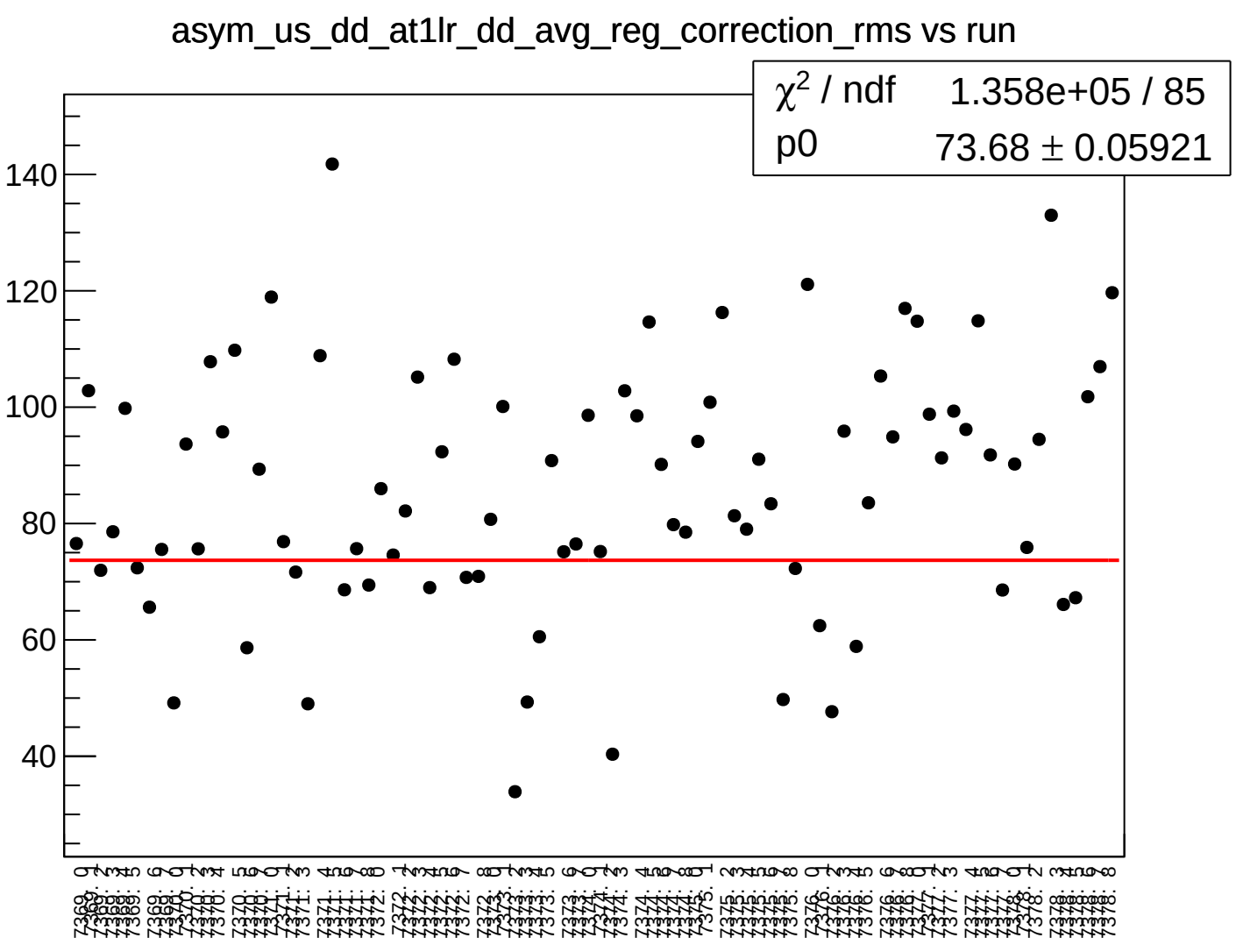

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 89.42 / 85
p0 −1824 ± 2368
pull
Entries 86
Mean 367.6
Std Dev 0

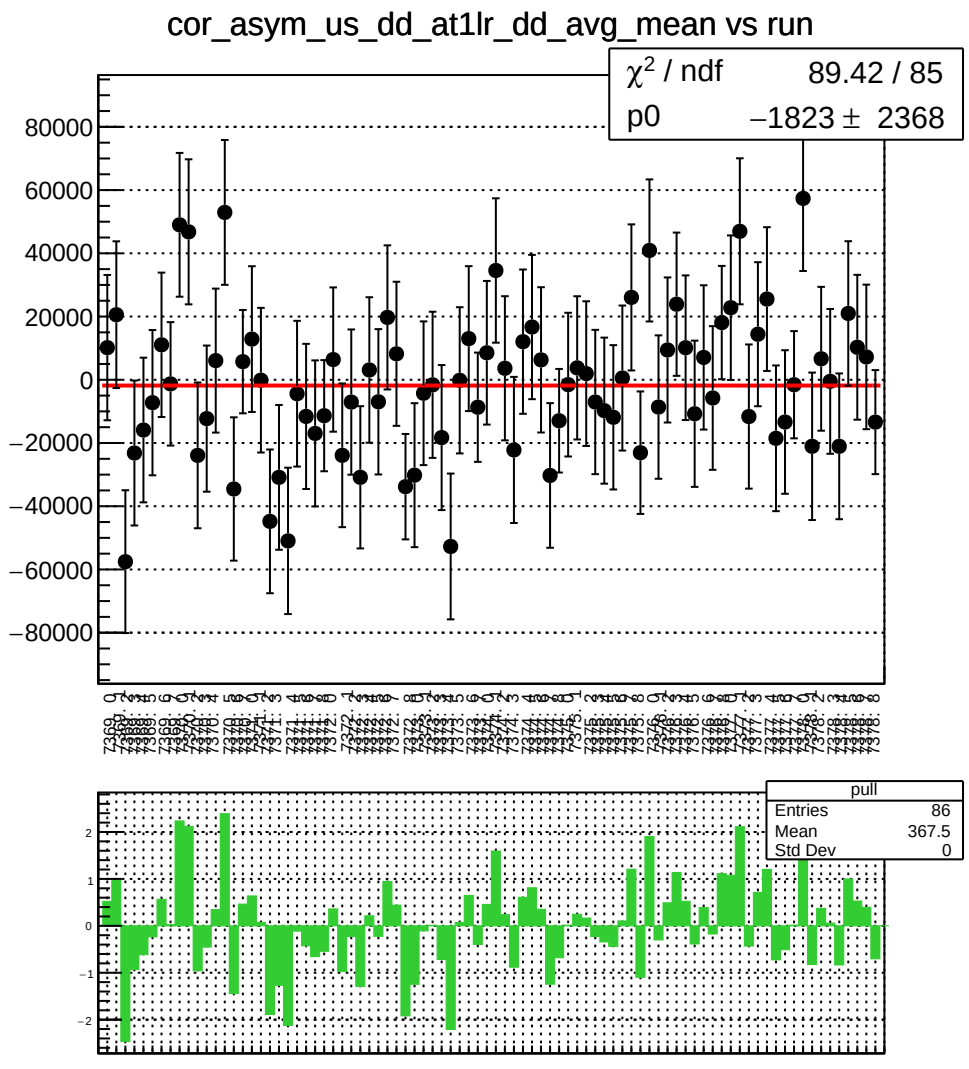

pull1D
Entries 86
Mean 0.01414
Std Dev 1.02

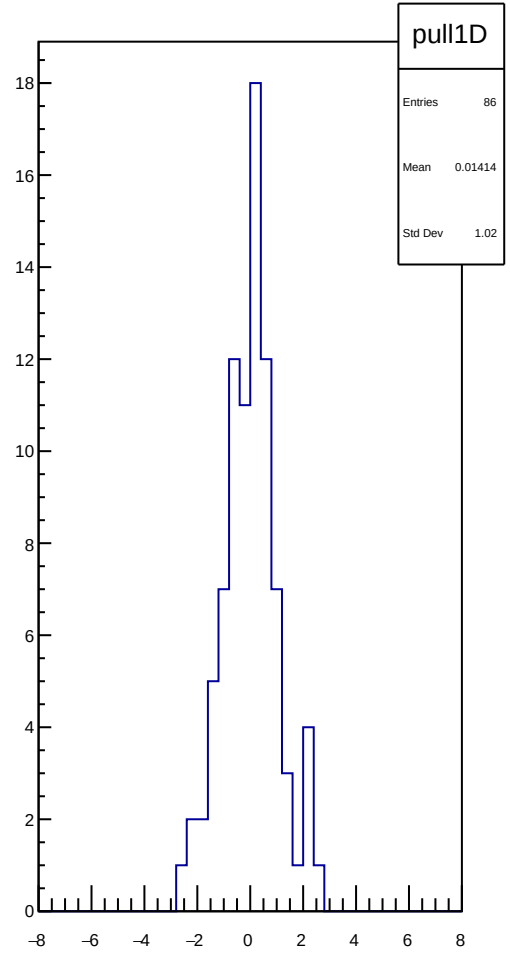

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 78.77 / 85
p0 2173 ± 1.675
2220
2200
2180
2160
2140
2120

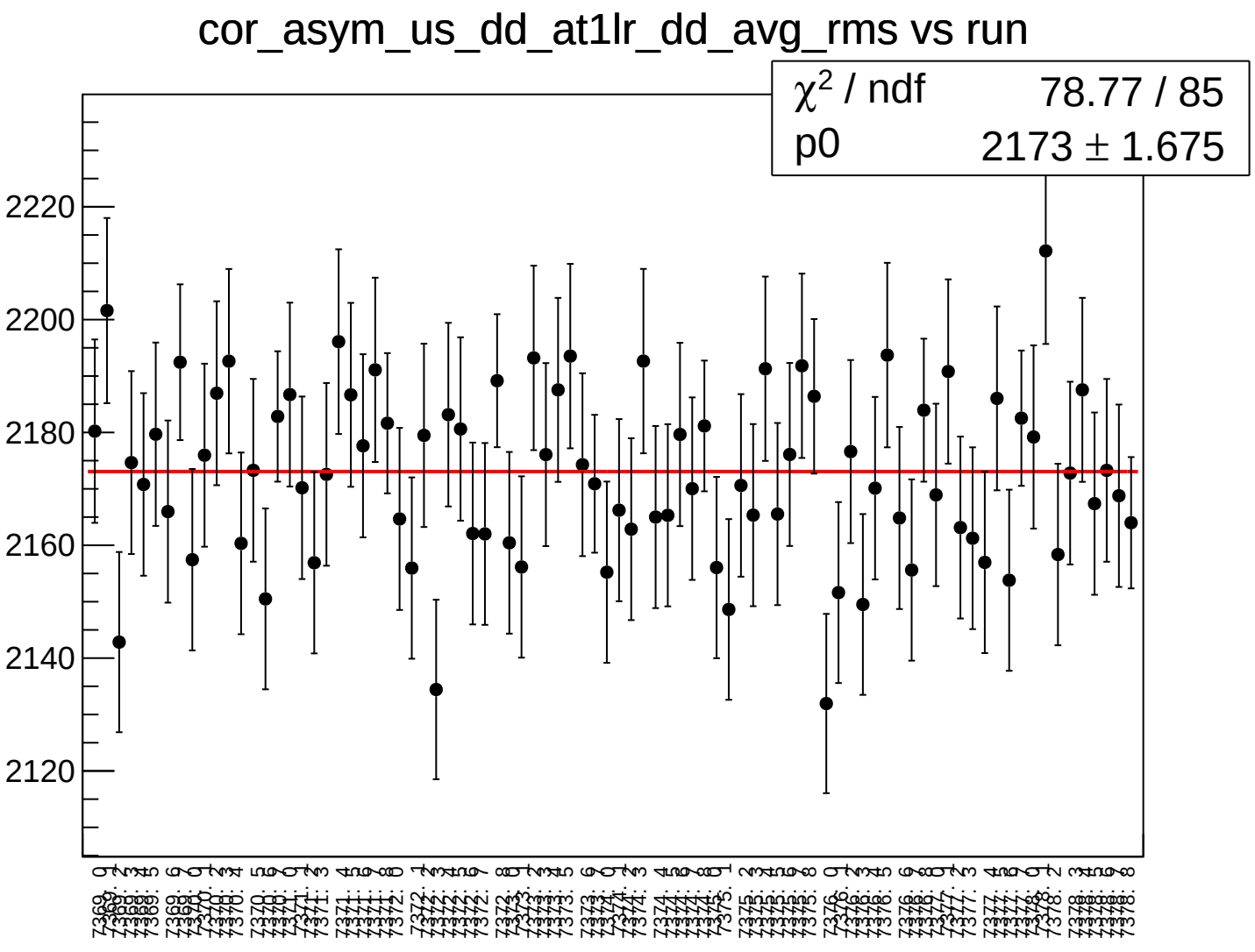

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 95.45 / 85
p0 6.753 ± 83.74
pull
Entries 86
Mean 98.84
Std Dev 75.45

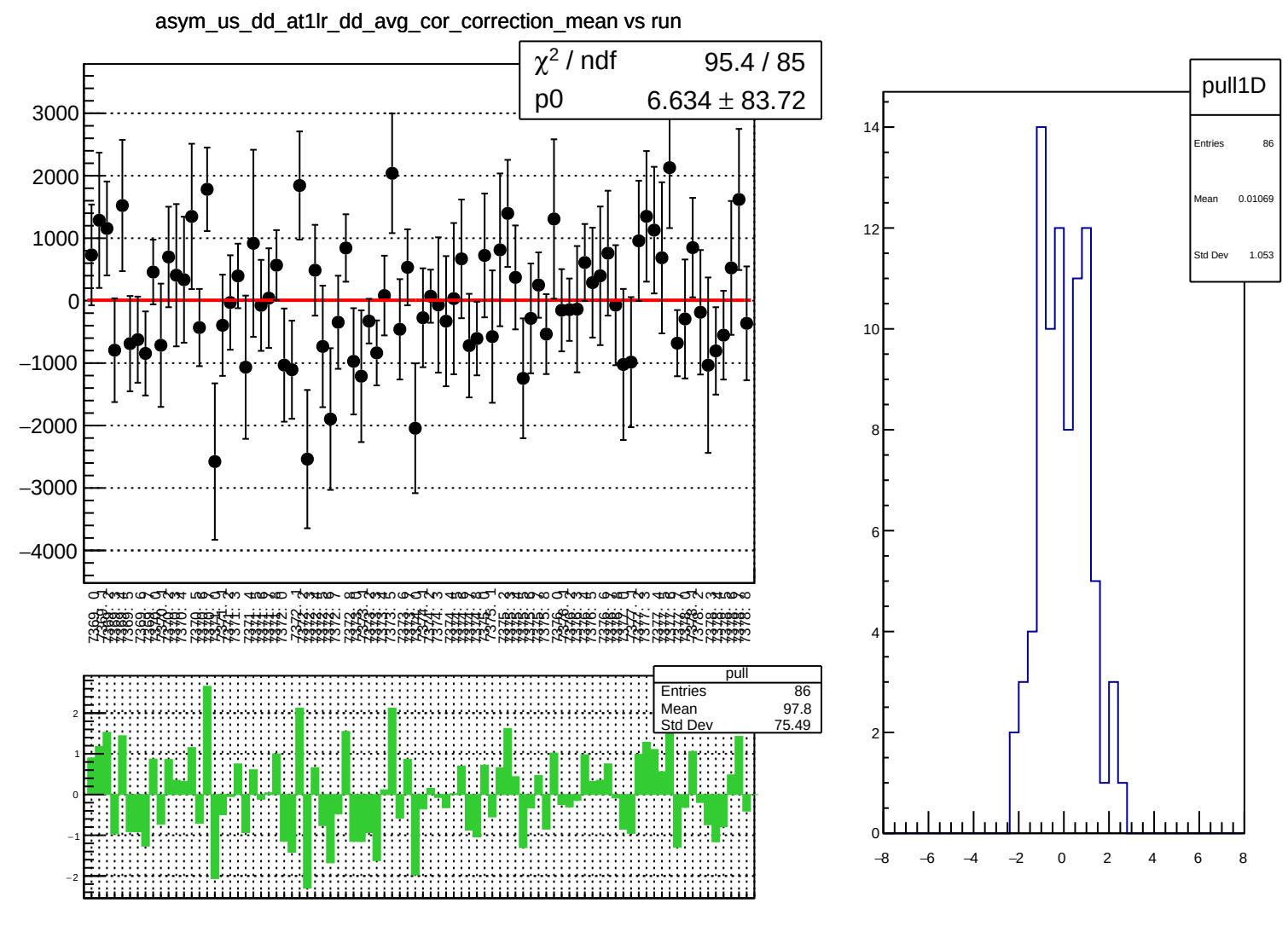

pull1D
Entries 86
Mean 0.01052
Std Dev 1.053

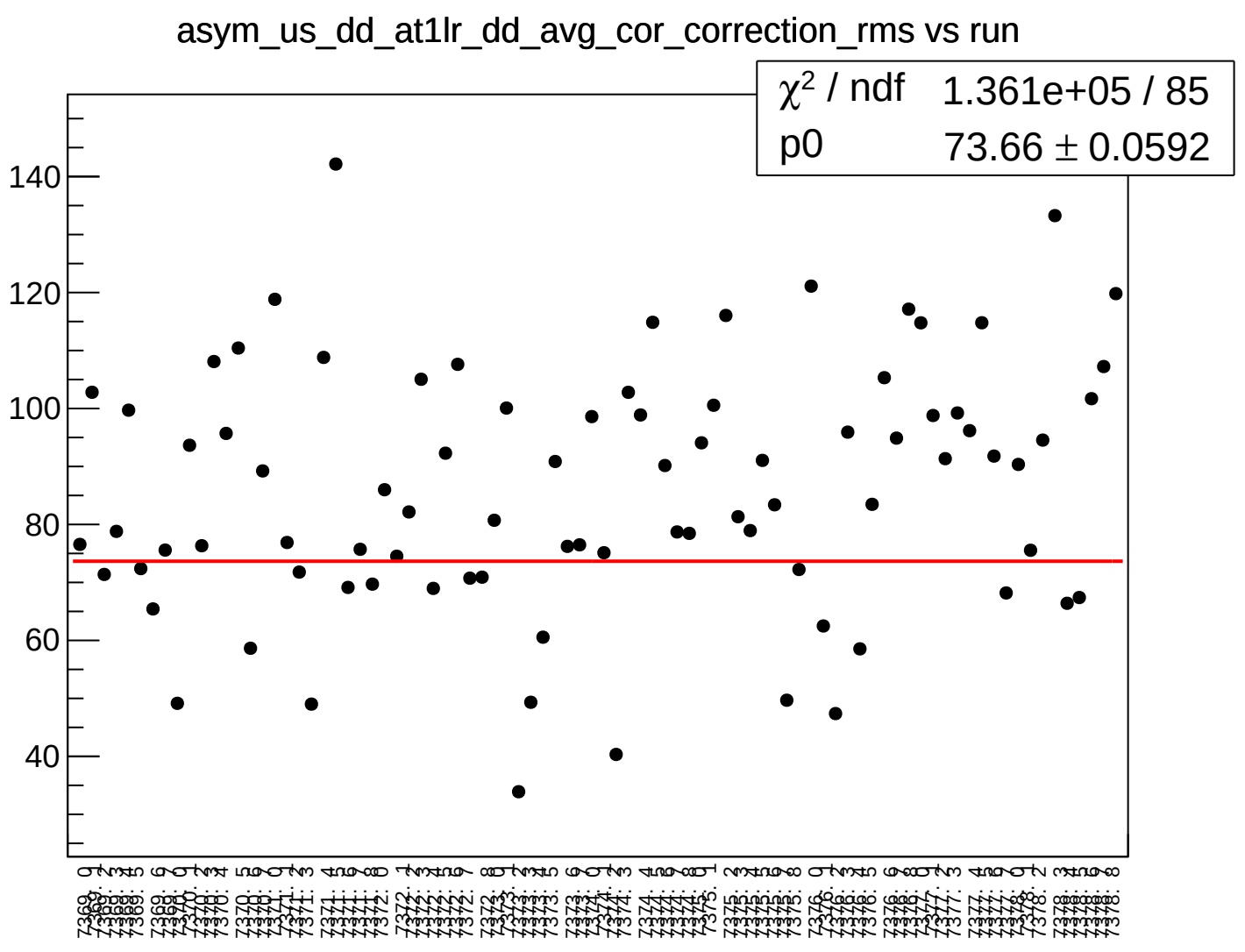

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 1.358e+05 / 85
p0 73.68 ± 0.05921
140
120
100
80
60
40

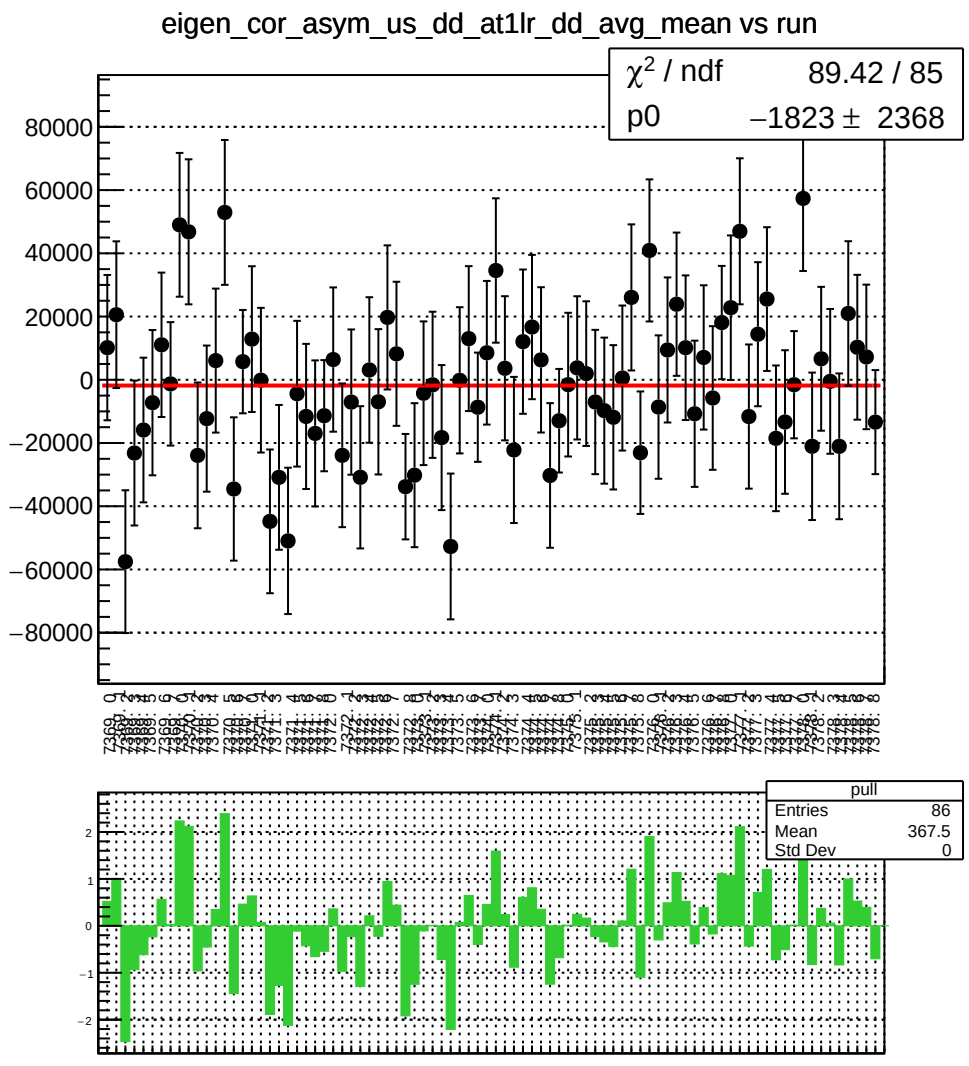

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 89.42 / 85
p0 −1823 ± 2368
pull
Entries 86
Mean 367.5
Std Dev 0

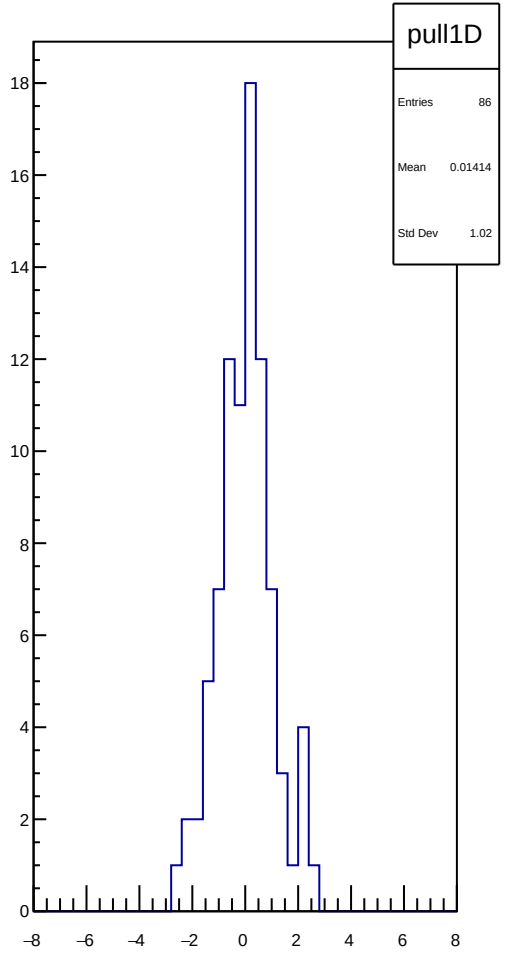

pull1D
Entries 86
Mean 0.01414
Std Dev 1.02

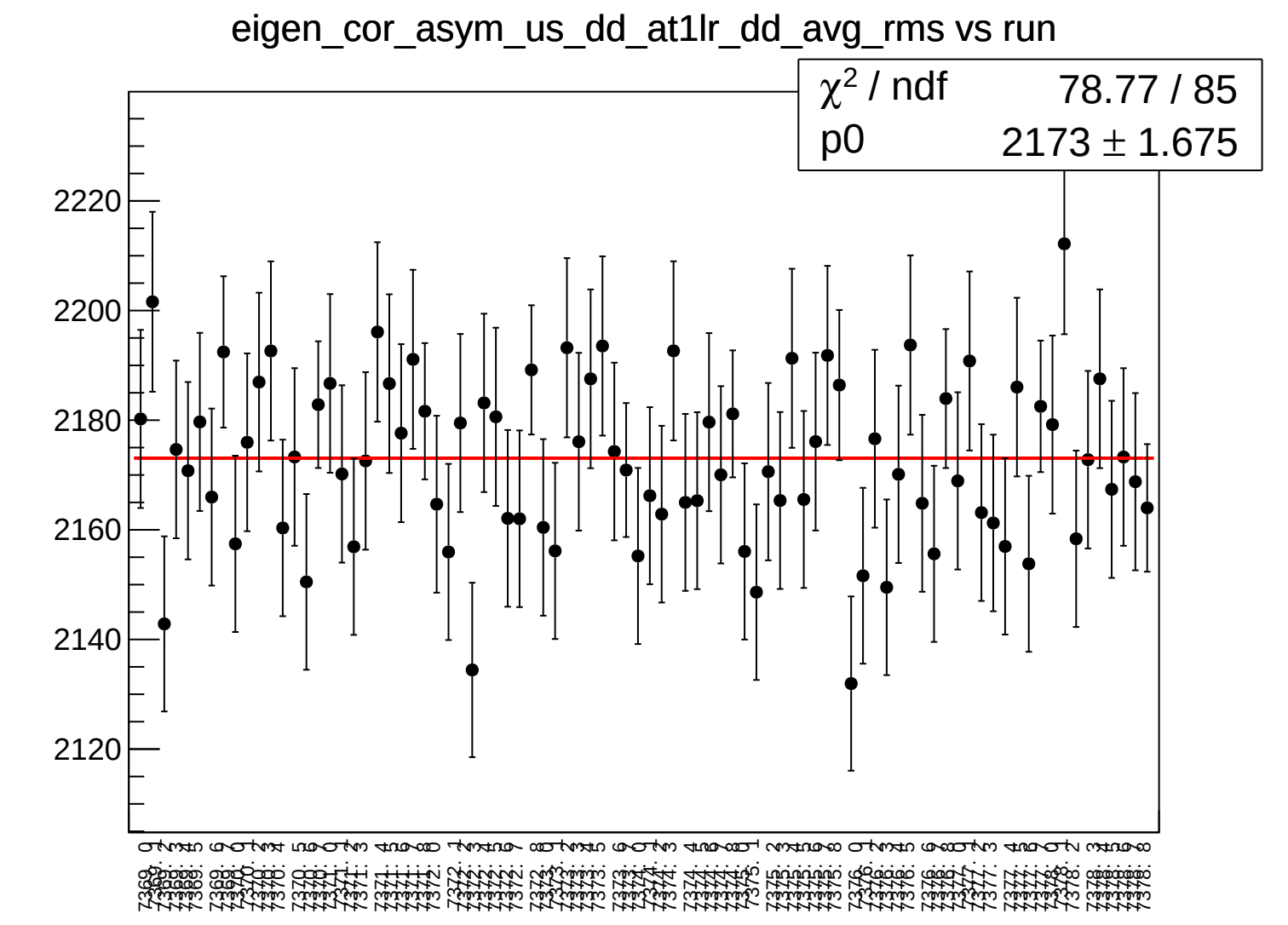

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 78.77 / 85
p0 2173 ± 1.675
2220
2200
2180
2160
2140
2120

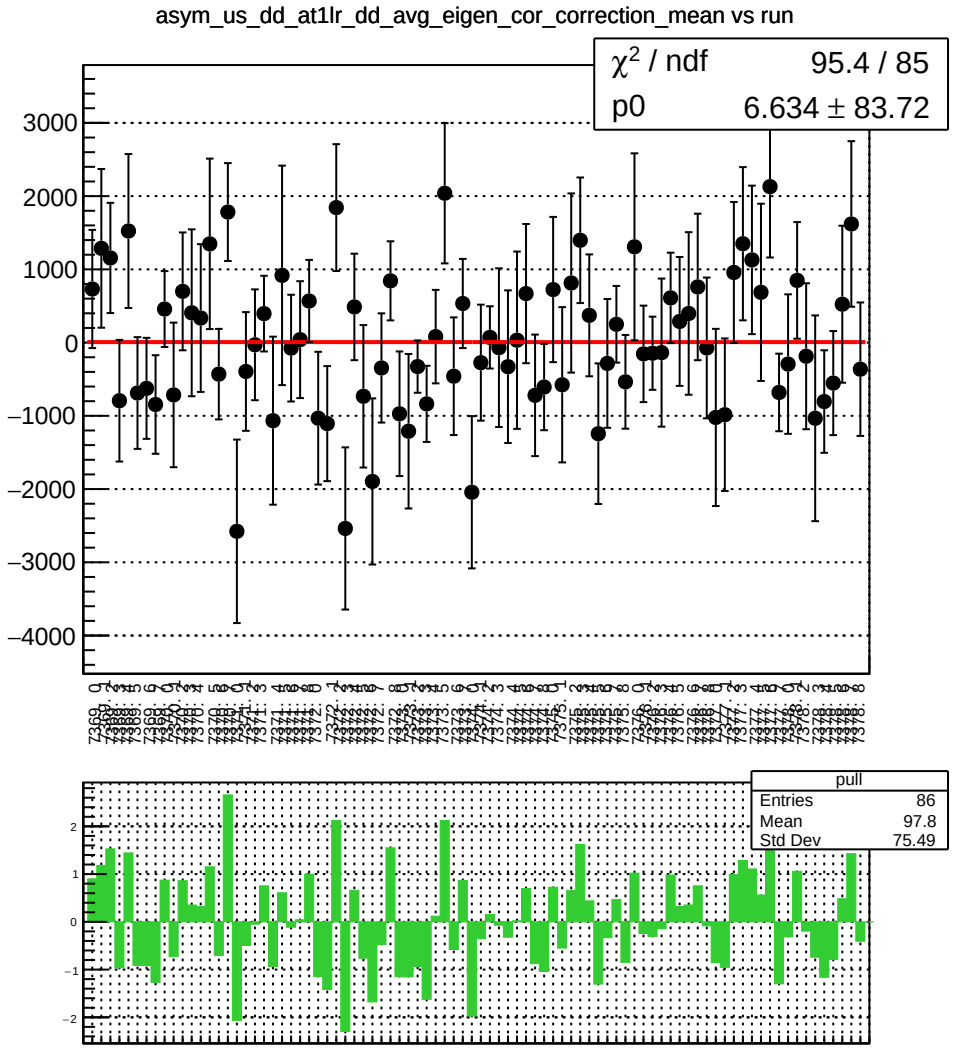

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 95.4 / 85
p0 6.634 ± 83.72
pull
Entries 86
Mean 97.8
Std Dev 75.49
pull1D
Entries 86
Mean 0.01069
Std Dev 1.053

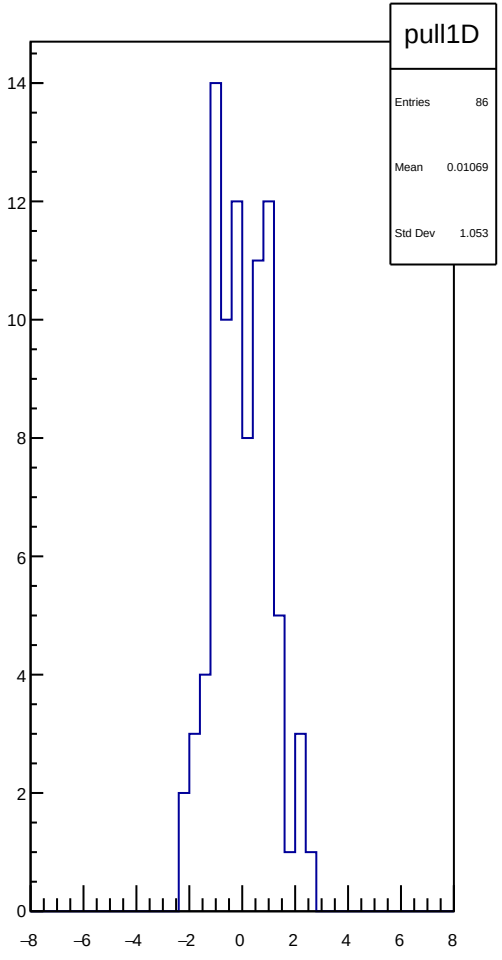

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 1.361e+05 / 85
p0 73.66 ± 0.0592
140
120
100
80
60
40

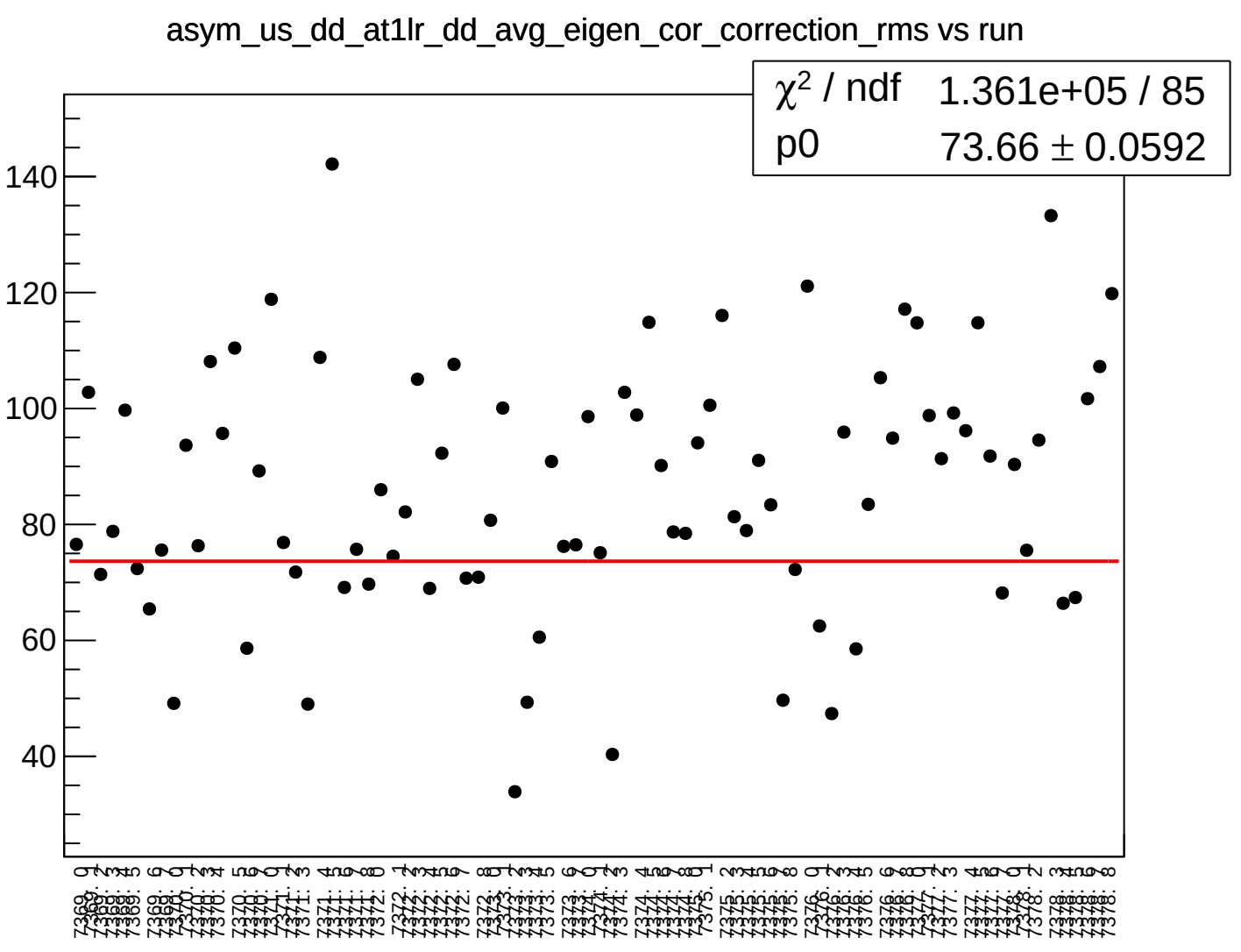

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 89.42 / 85
p0 −1823 ± 2368
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 367.5
Std Dev 0
2
1
0
−1
−2

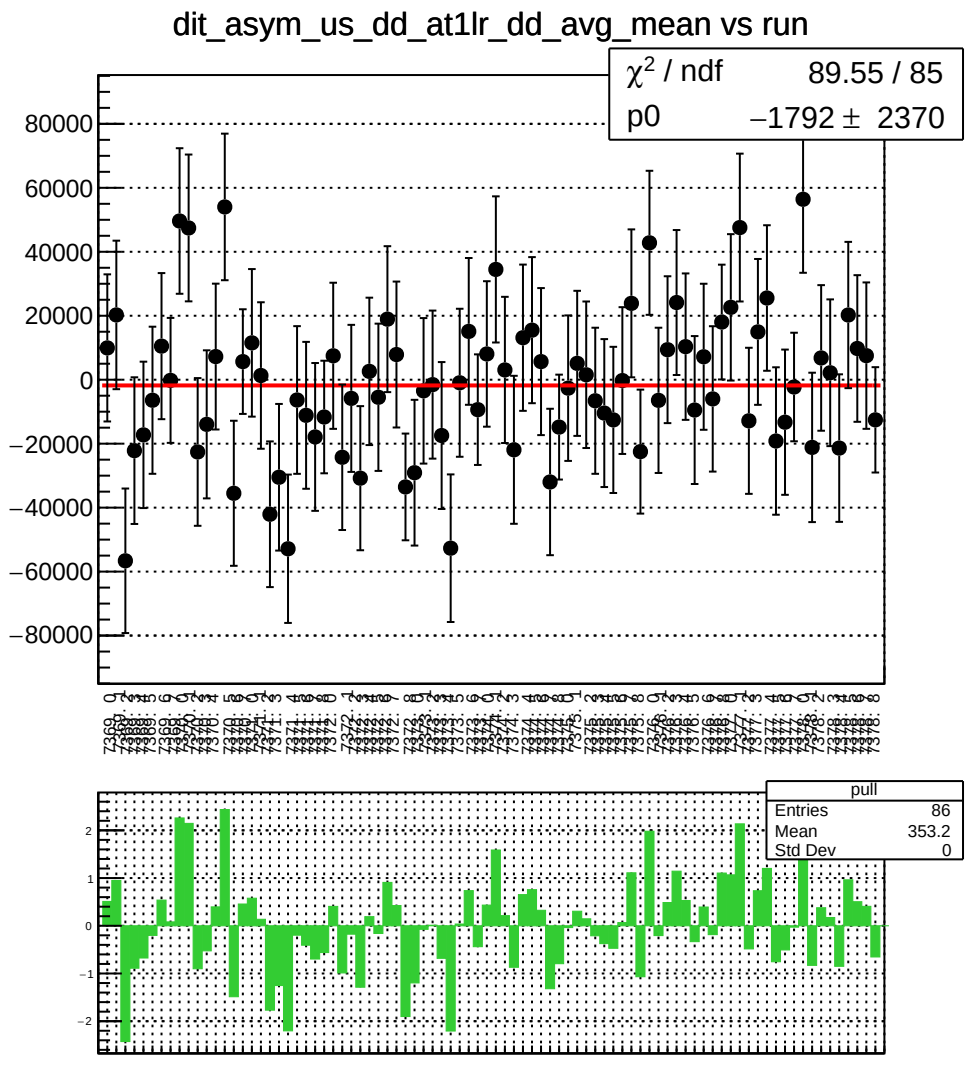

pull1D
Entries 86
Mean 0.01414
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

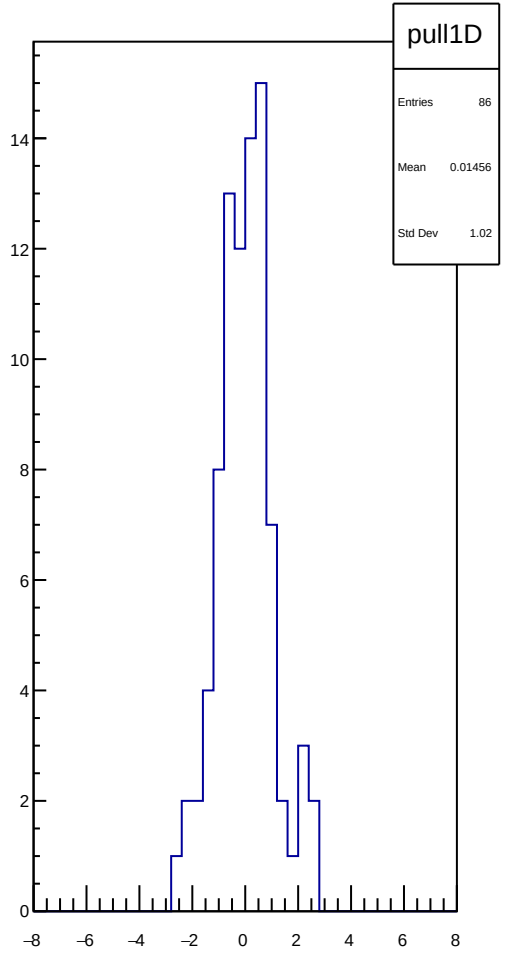

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 78.77 / 85
p0 2173 ± 1.675
2220
2200
2180
2160
2140
2120

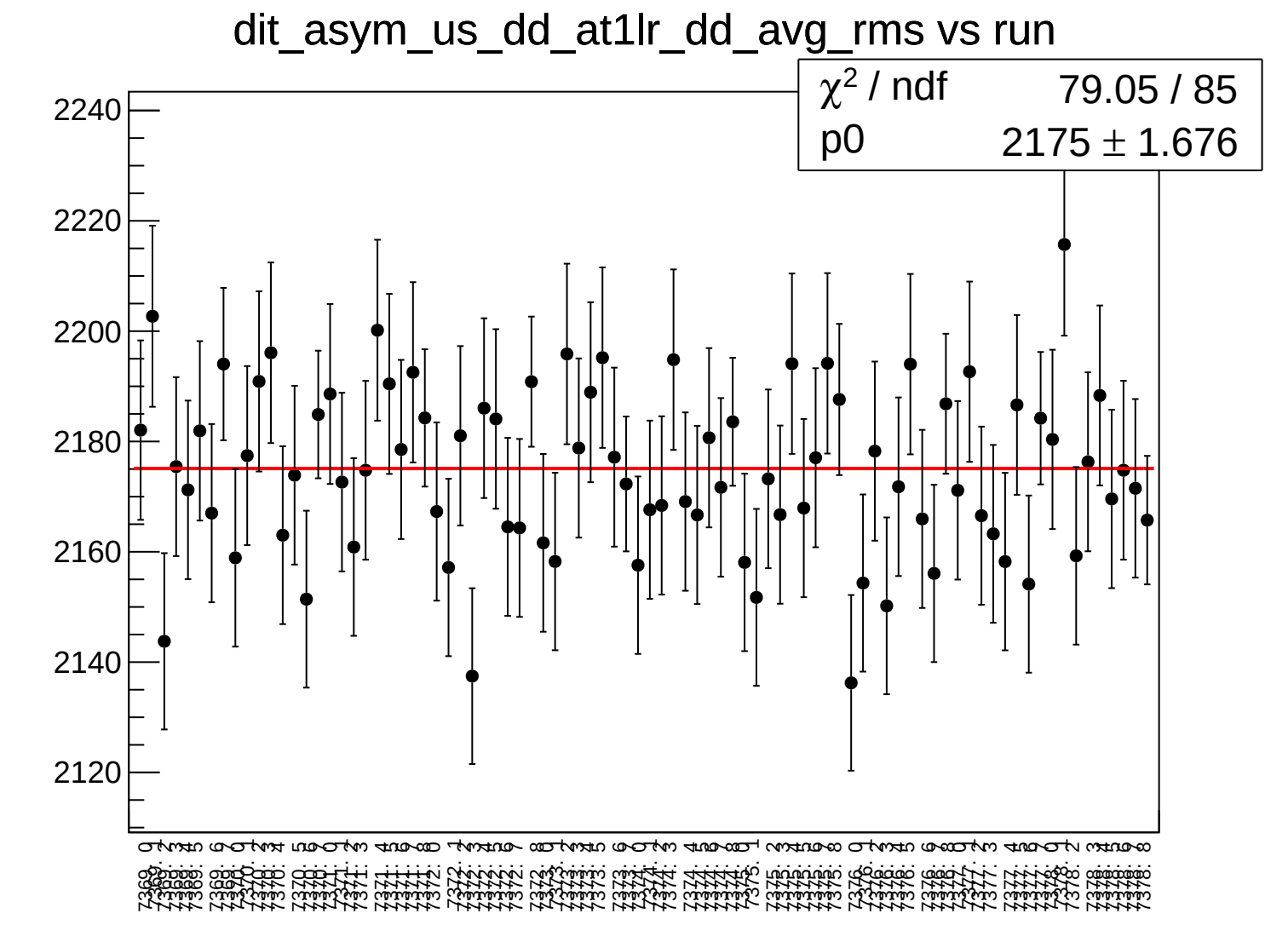

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.4 / 85
p0 6.634 ± 83.72
pull
Entries 86
Mean 97.8
Std Dev 75.49

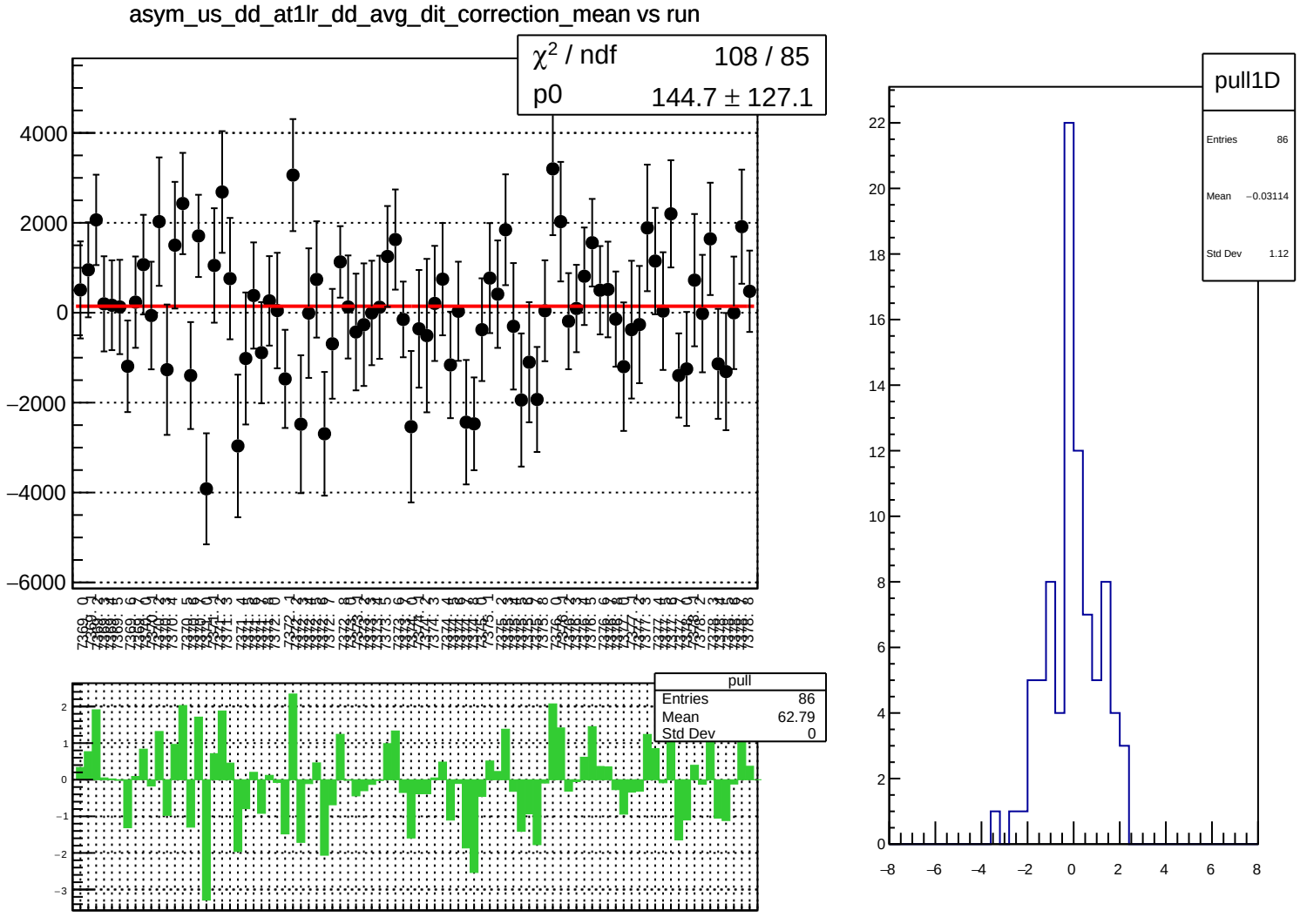

pull1D
Entries 86
Mean 0.01069
Std Dev 1.053

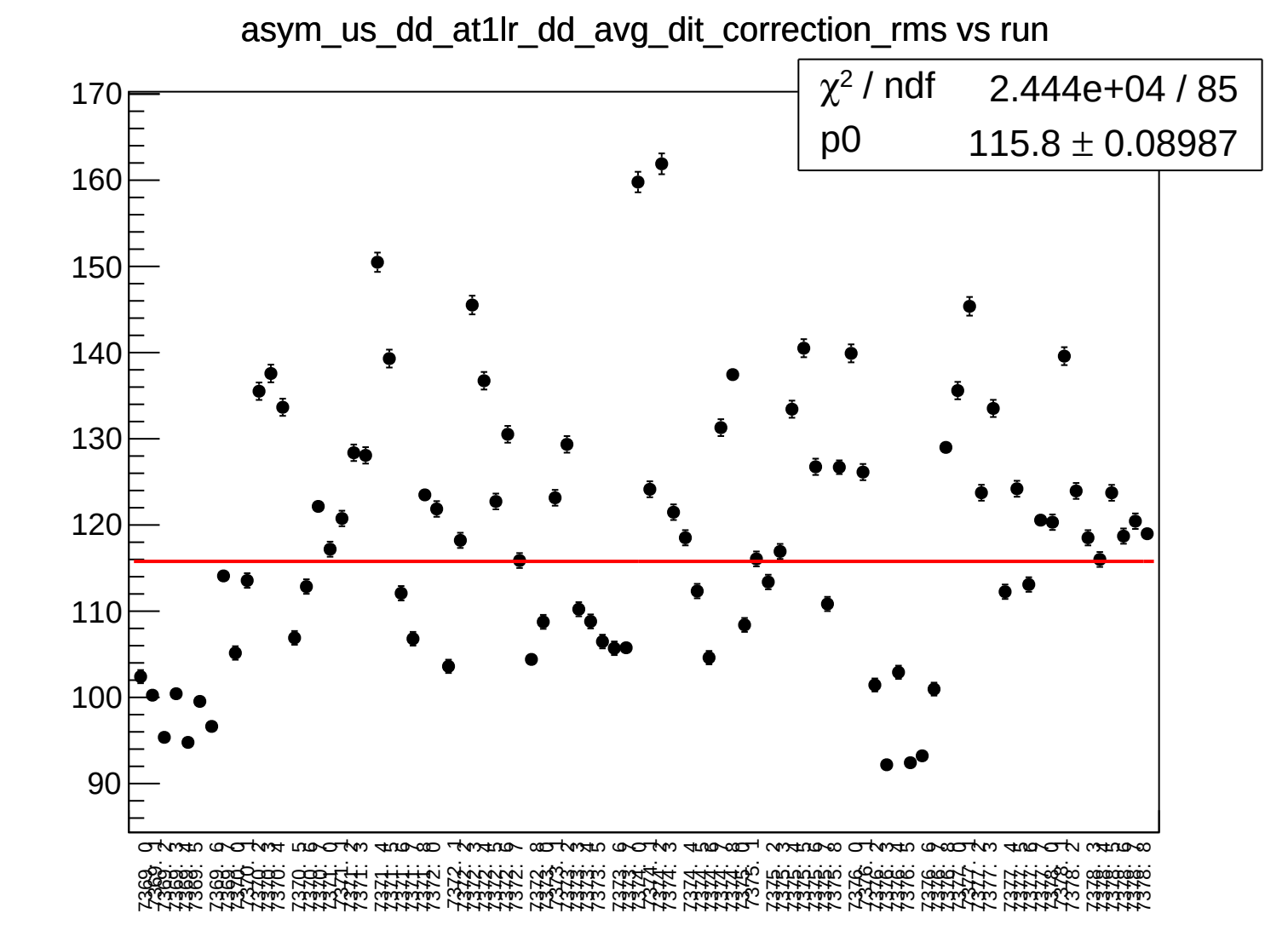

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.361e+05 / 85
p0 73.66 ± 0.0592
140
120
100
80
60
40

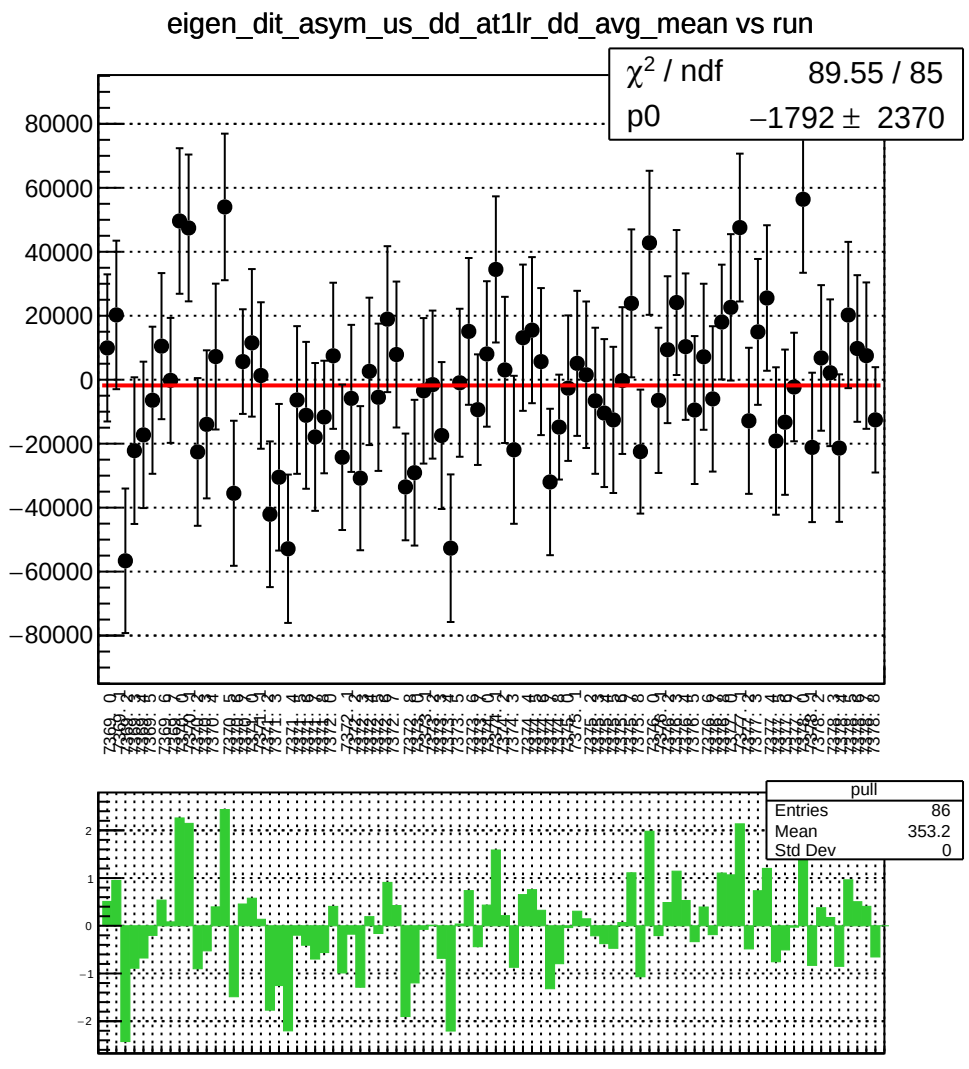

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 89.55 / 85
p0 −1792 ± 2370
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 353.2
Std Dev 0
2
1
0
−1
−2

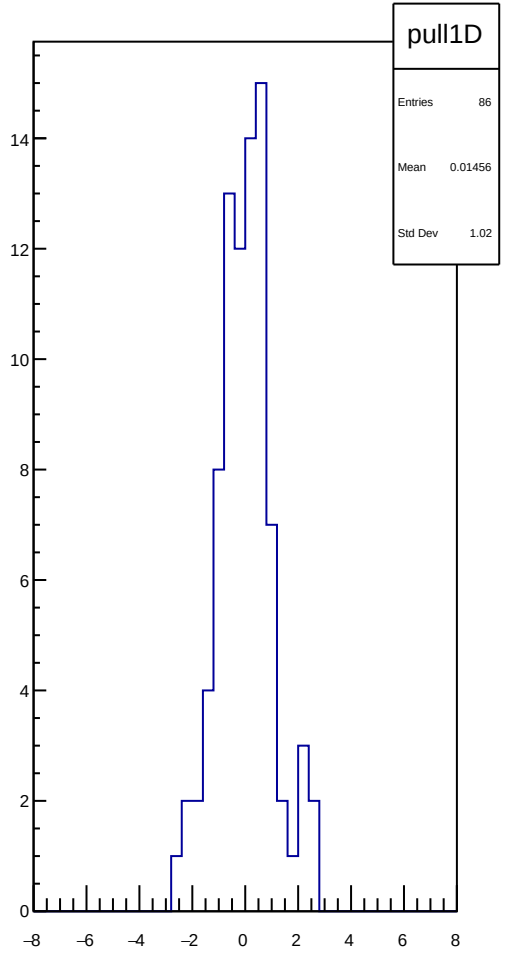

pull1D
Entries 86
Mean 0.01456
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

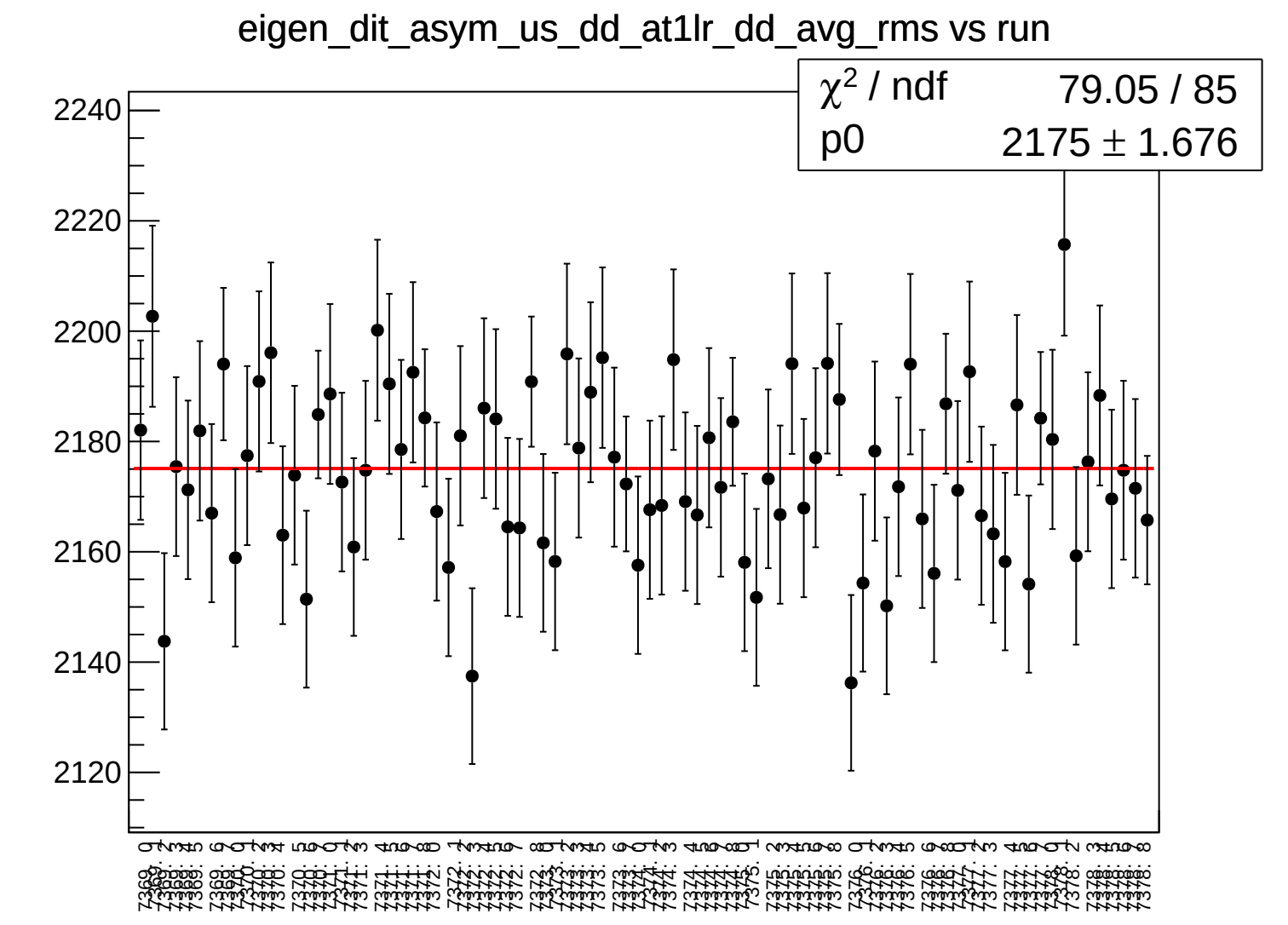

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 79.05 / 85
p0 2175 ± 1.676
2240
2220
2200
2180
2160
2140
2120

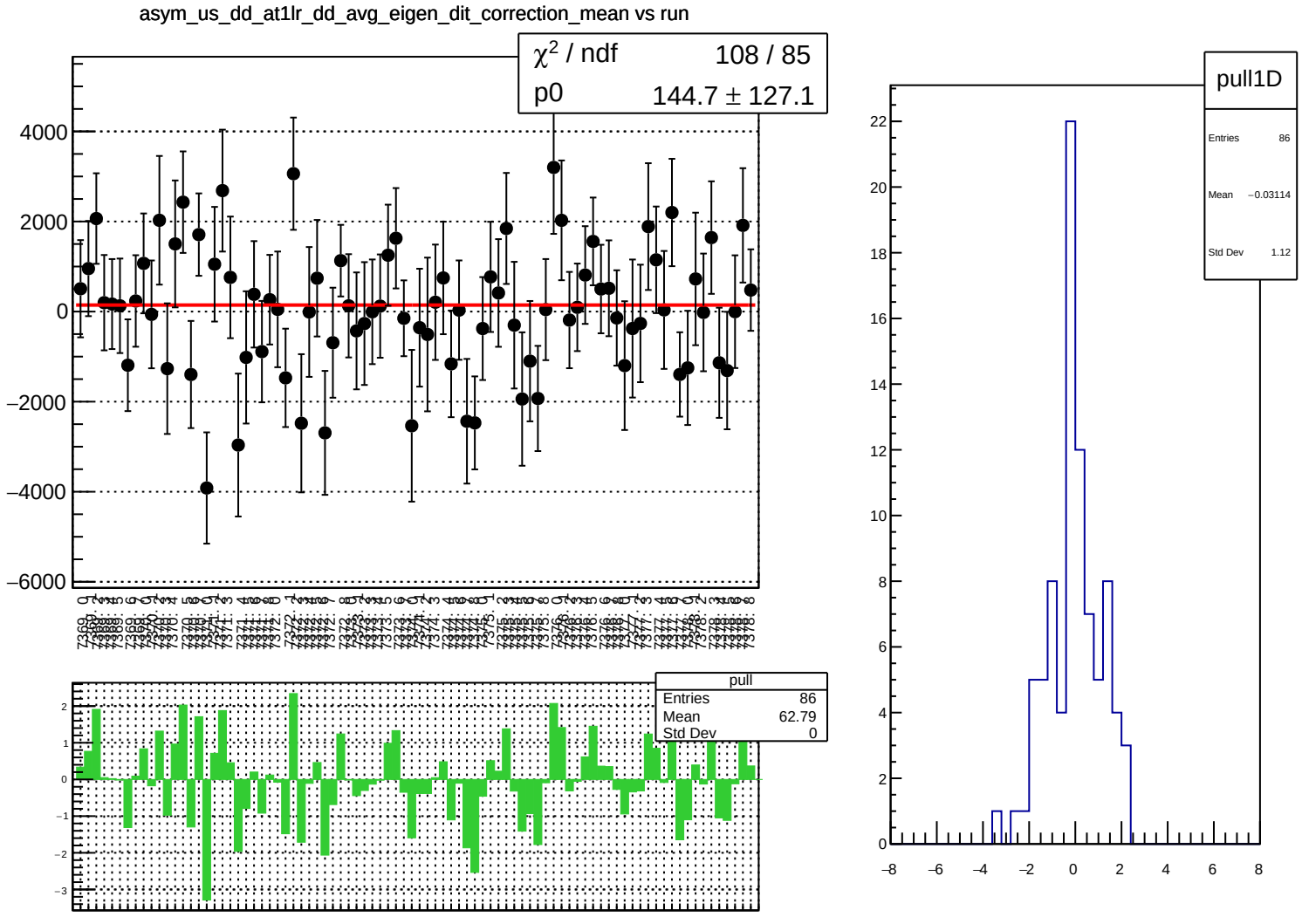

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ^2 / ndf 108 / 85
p0 144.7 ± 127.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 62.79
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.03114
Std Dev 1.12
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

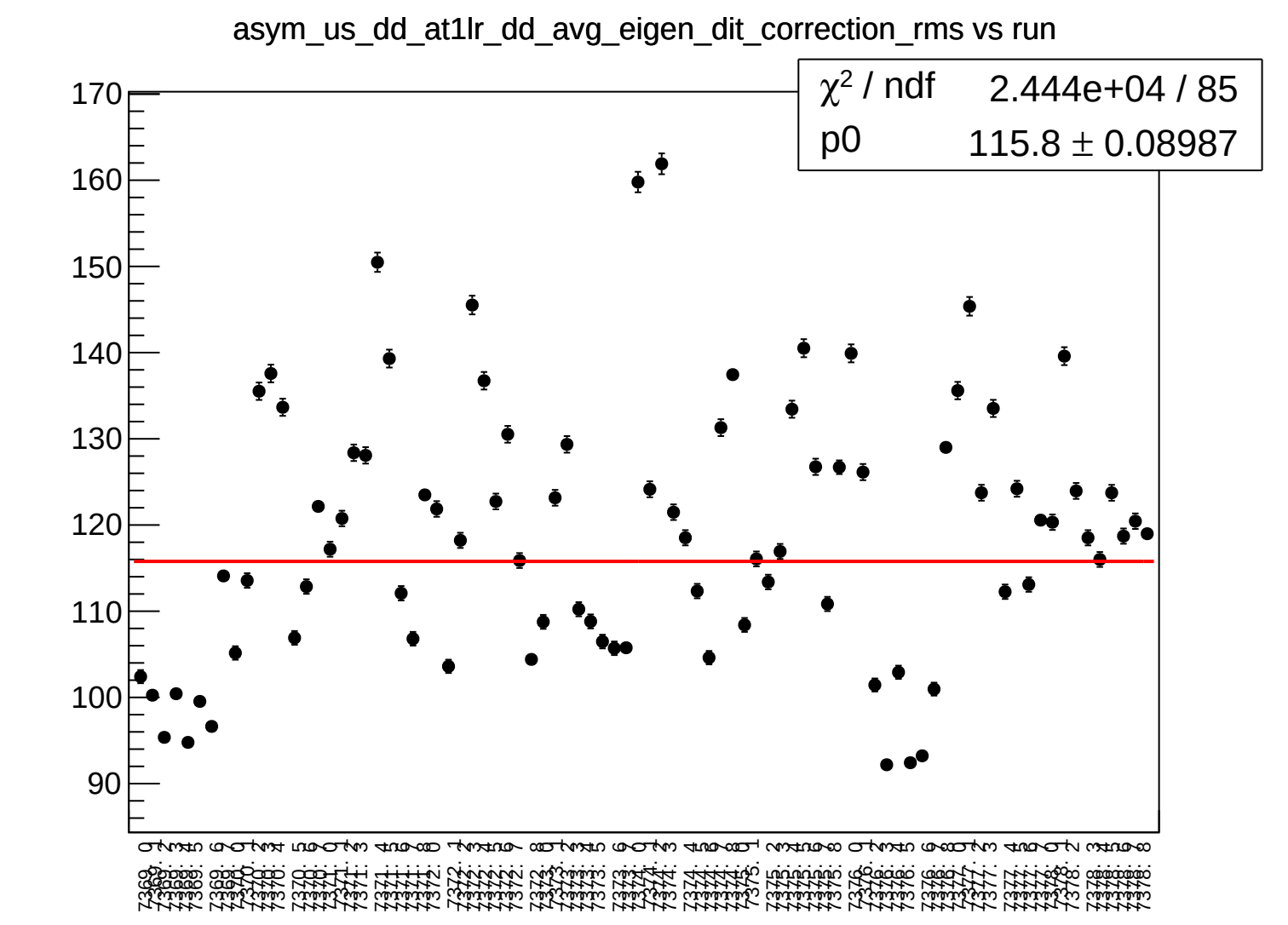

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.444e+04 / 85
p0 115.8 ± 0.08987
170
160
150
140
130
120
110
100
90

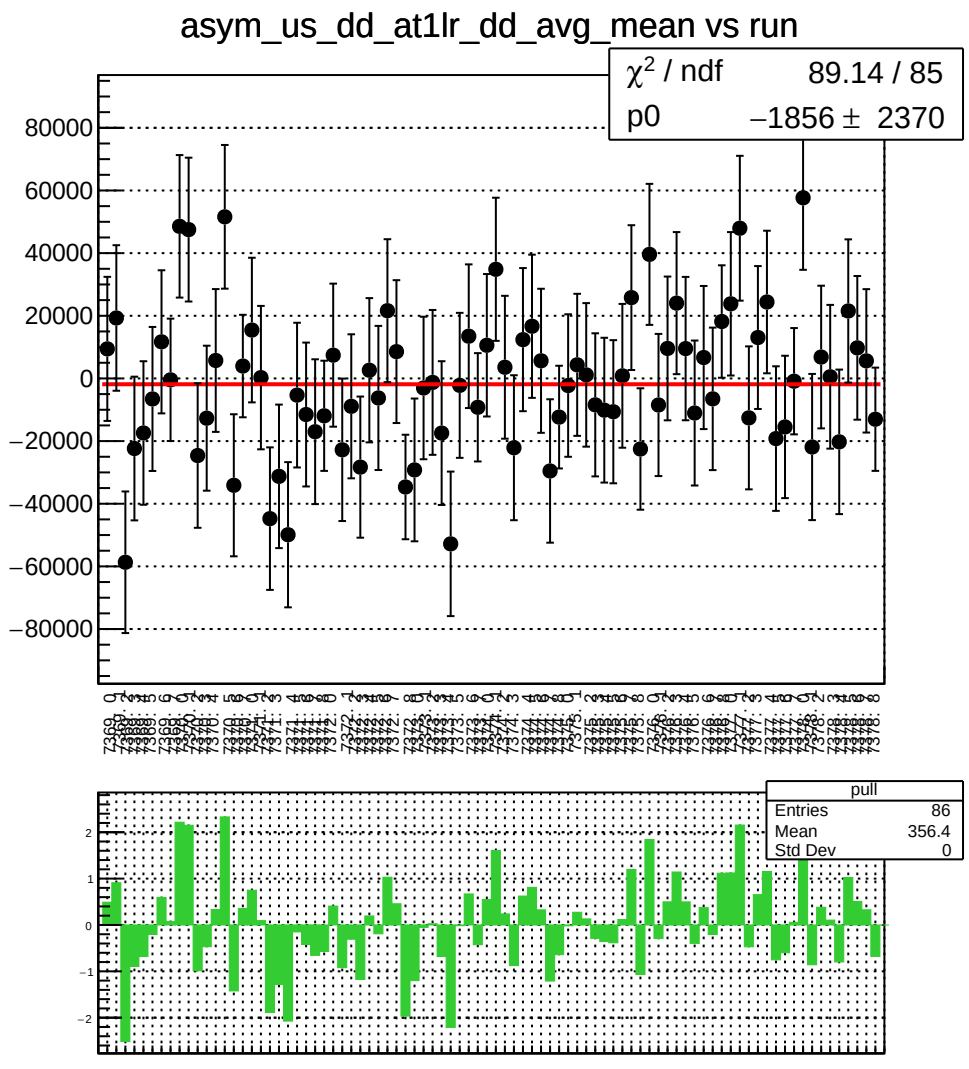

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 89.55 / 85
p0 −1792 ± 2370
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 353.2
Std Dev 0
2
1
0
−1
−2

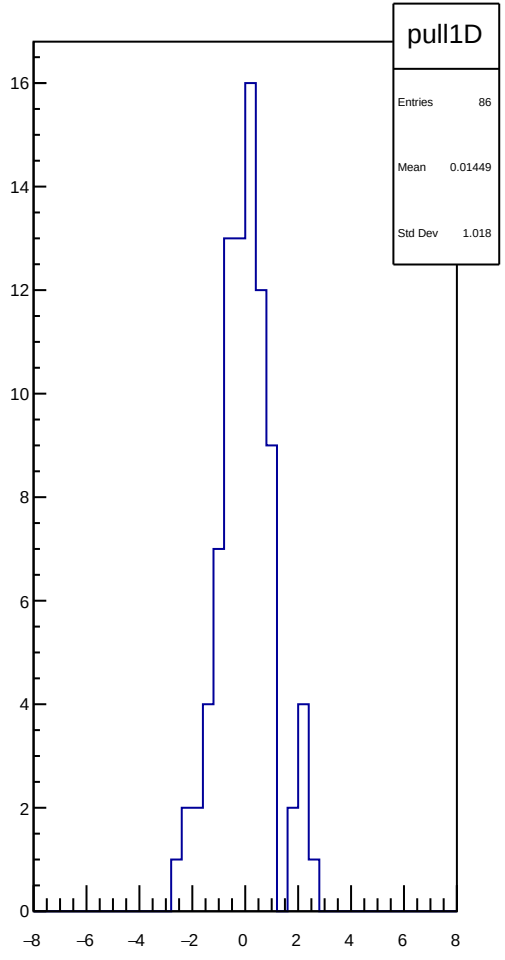

pull1D
Entries 86
Mean 0.01456
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

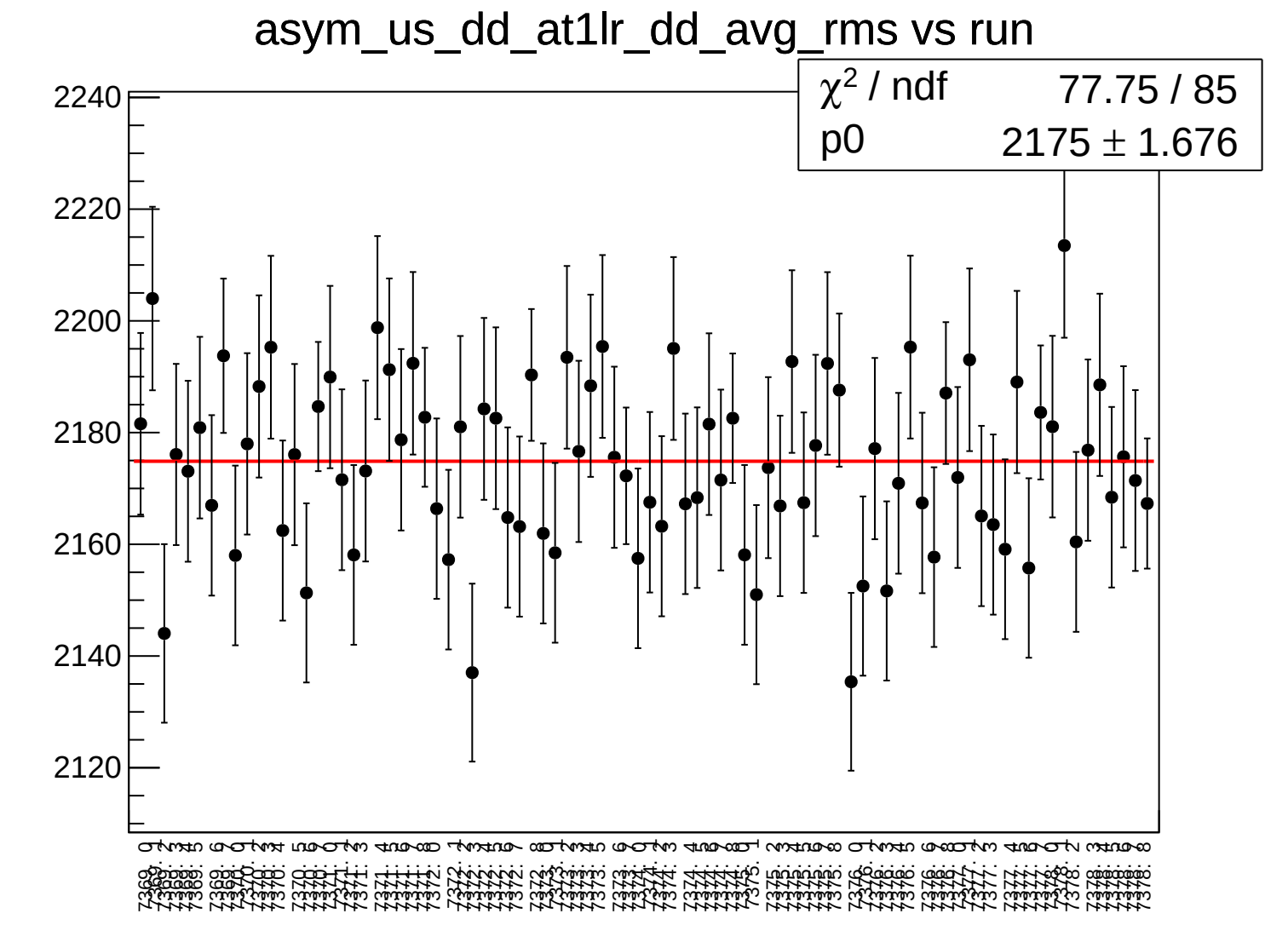

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 79.05 / 85
p0 2175 ± 1.676
2240
2220
2200
2180
2160
2140
2120

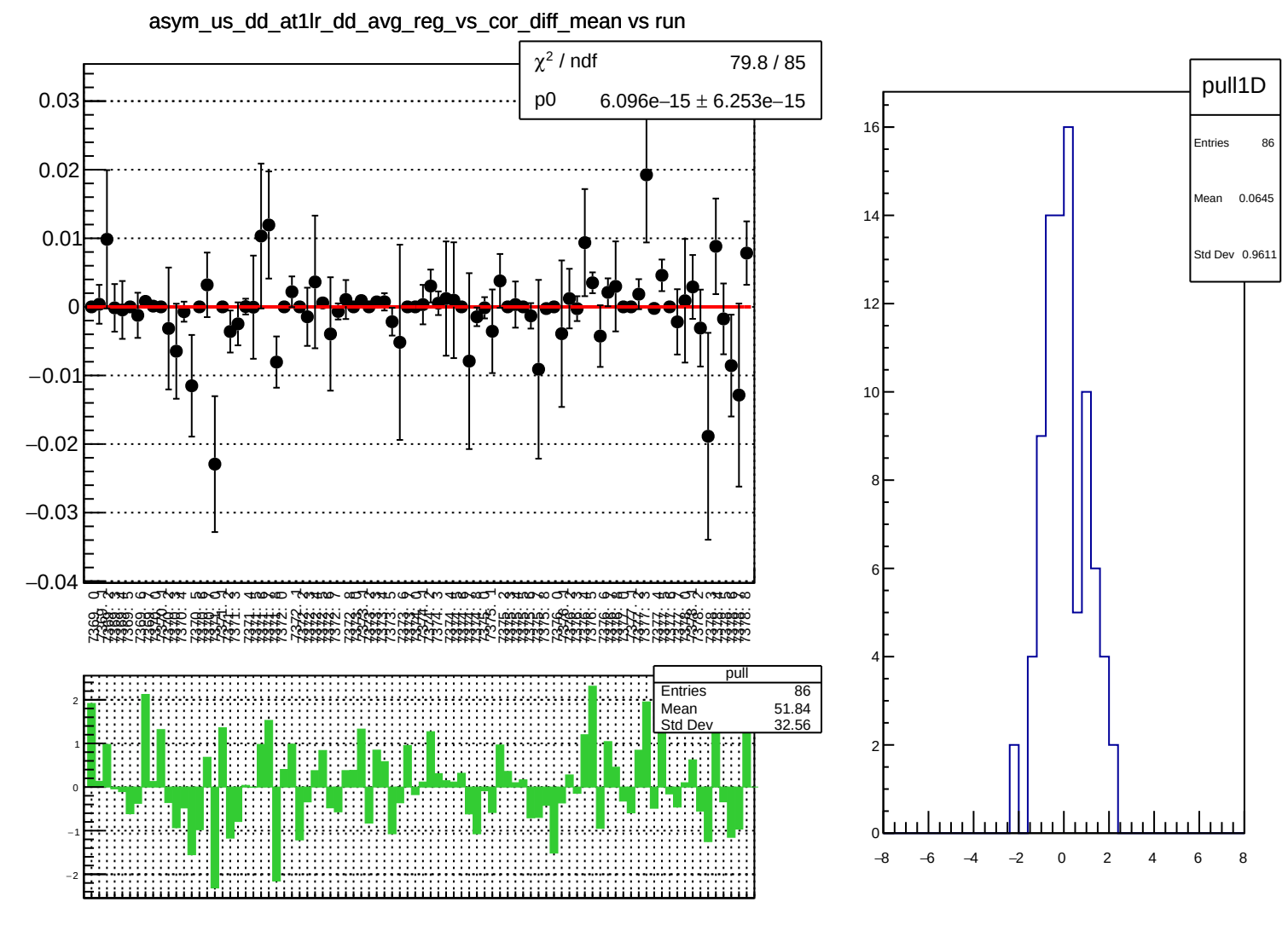

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 108 / 85
p0 144.7 ± 127.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 62.79
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.03114
Std Dev 1.12
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

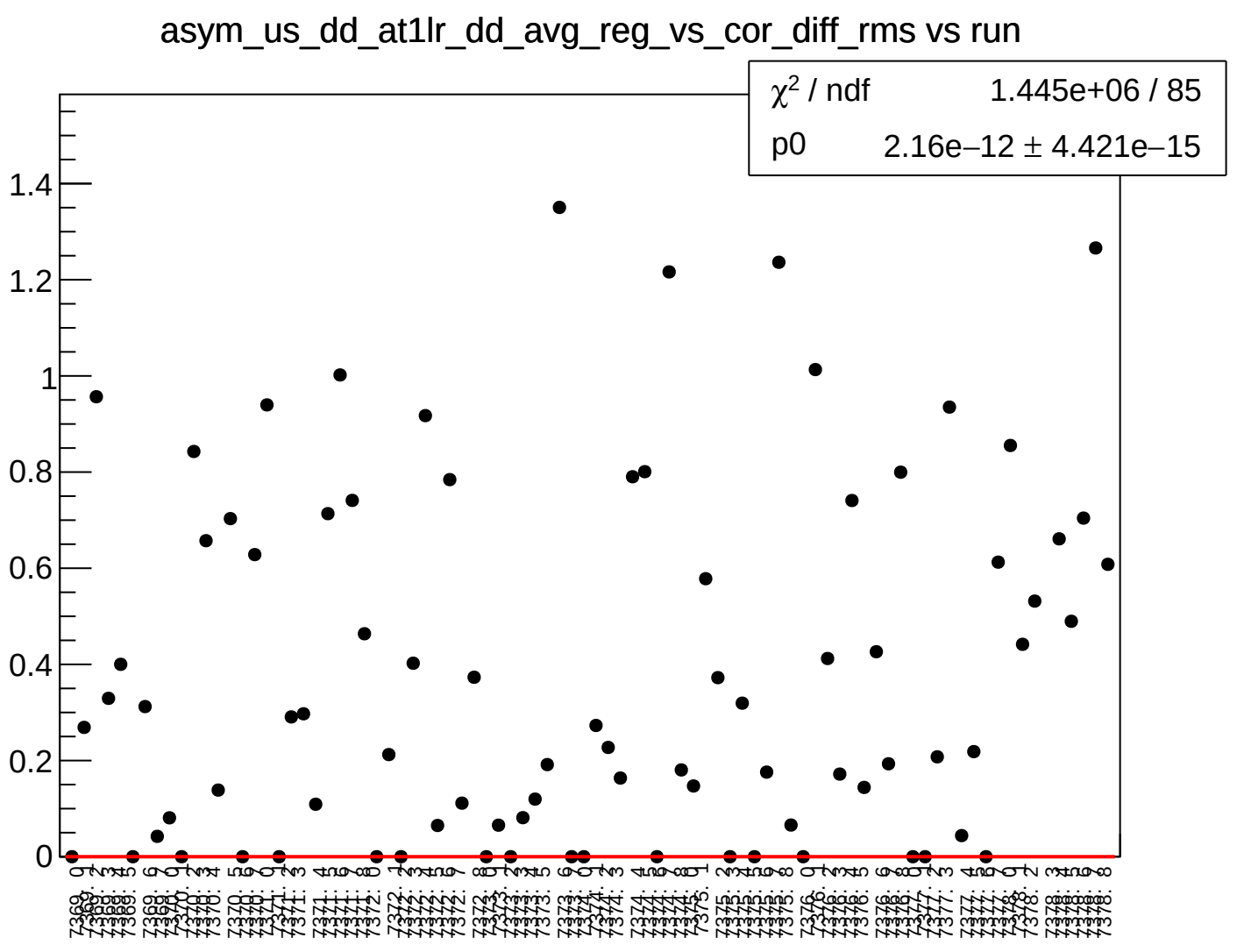

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.444e+04 / 85
p0 115.8 ± 0.08987
170
160
150
140
130
120
110
100
90


asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 89.14 / 85
p0 −1856 ± 2370
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 356.4
Std Dev 0
2
1
0
−1
−2

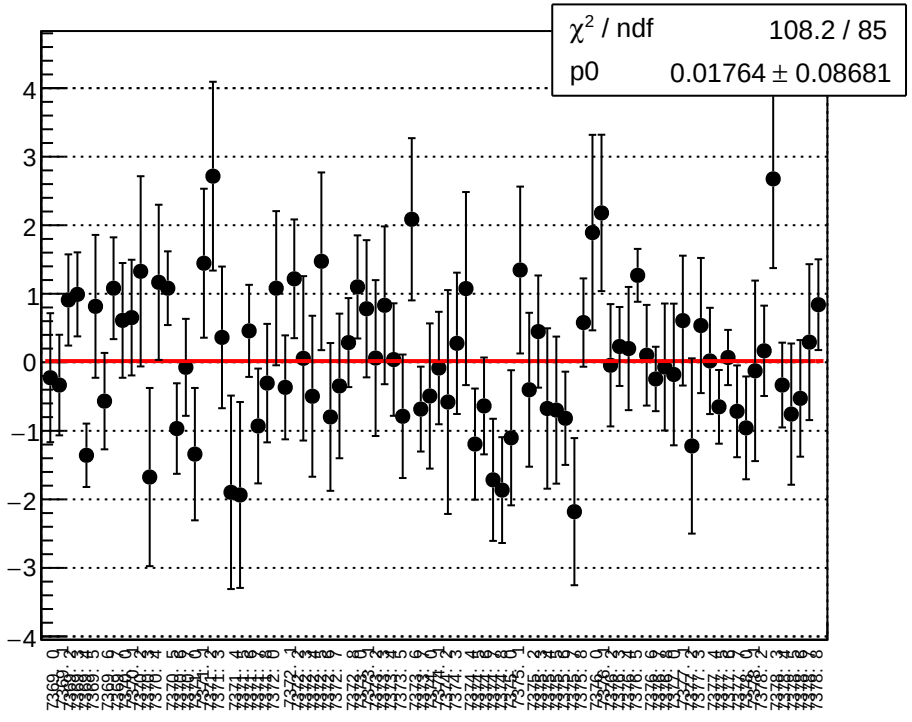

pull1D
Entries 86
Mean 0.01449
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

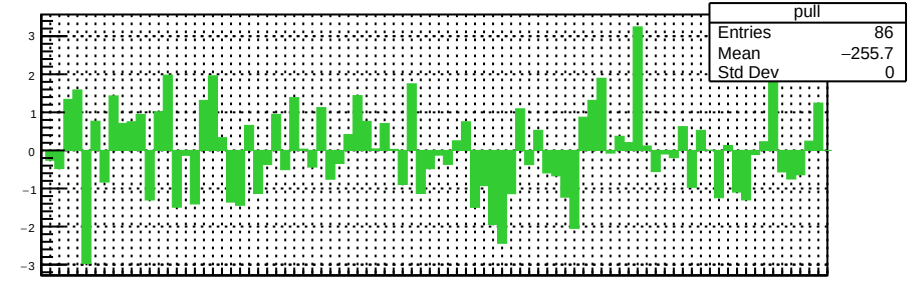

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 77.75 / 85
p0 2175 ± 1.676
2240
2220
2200
2180
2160
2140
2120

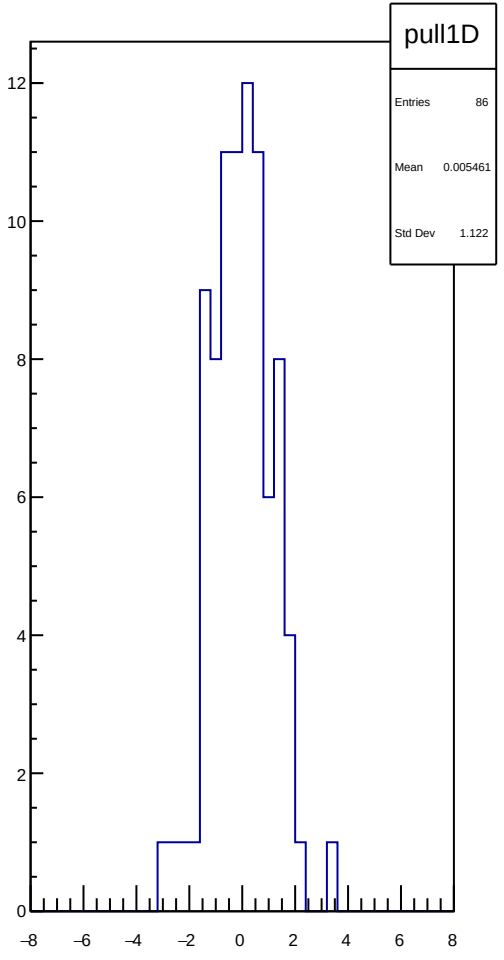

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.8 / 85
p0 6.096e−15 ± 6.253e−15
pull
Entries 86
Mean 51.84
Std Dev 32.56
pull1D
Entries 86
Mean 0.0645
Std Dev 0.9611

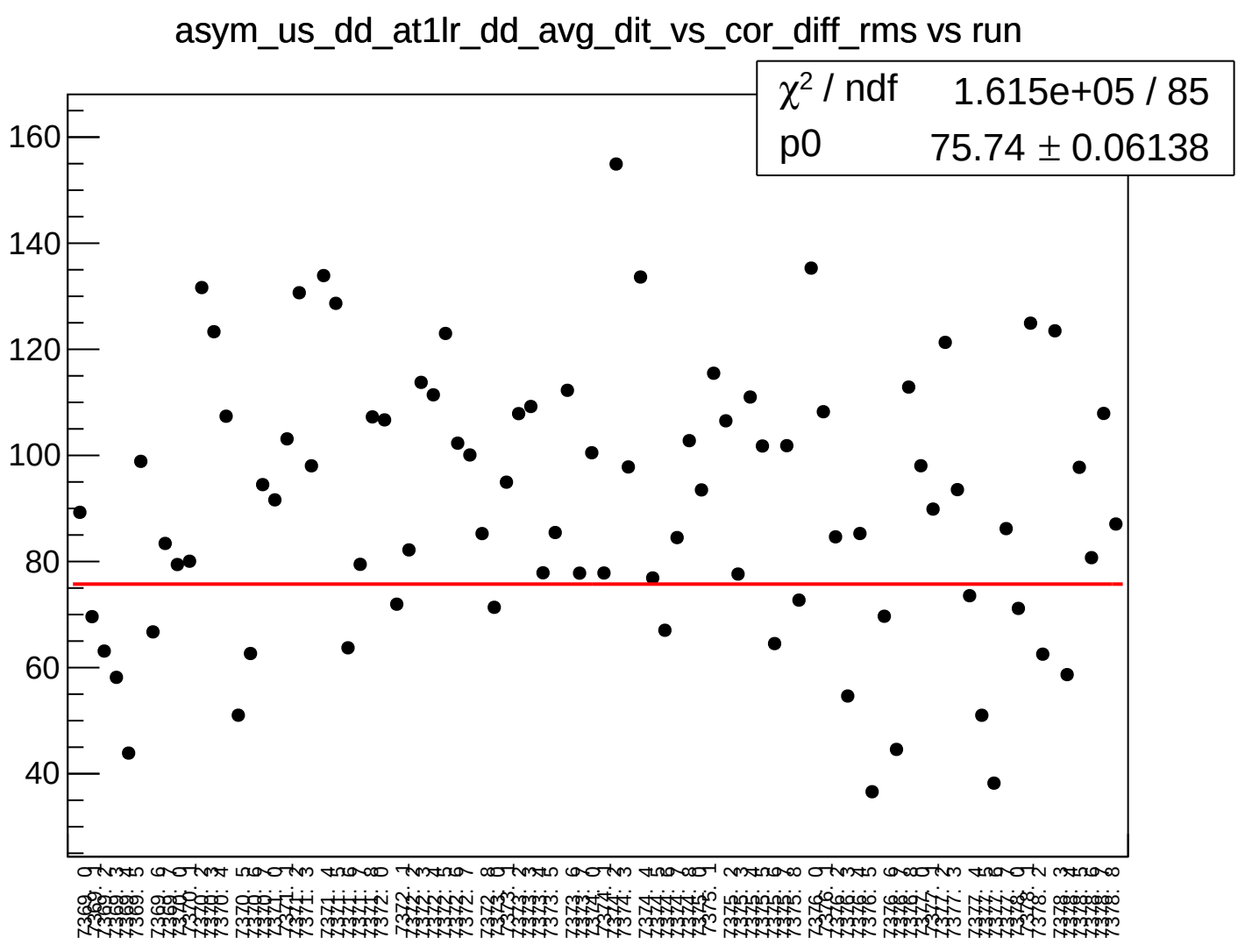

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.445e+06 / 85
p0 2.16e−12 ± 4.421e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

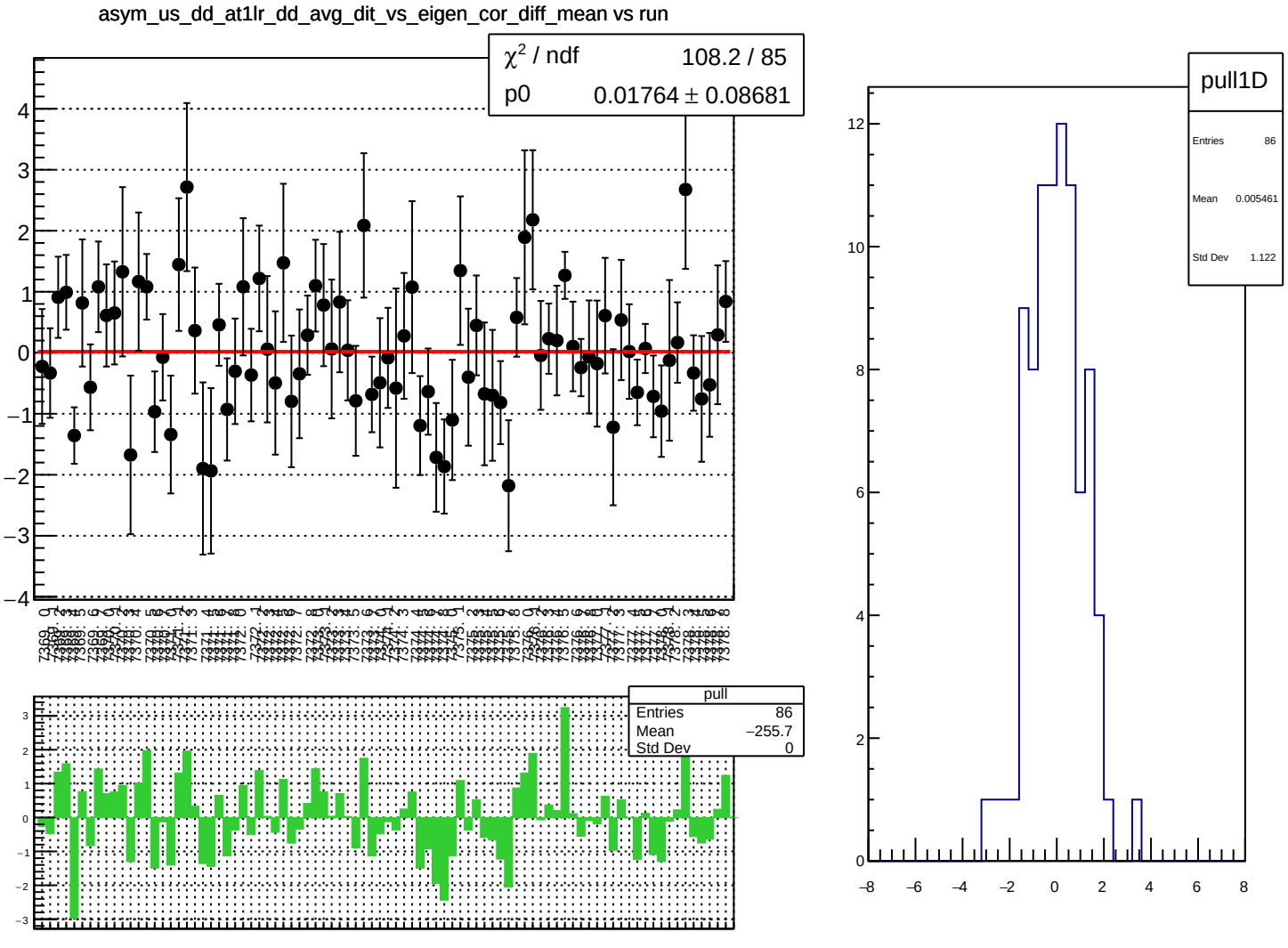
asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run

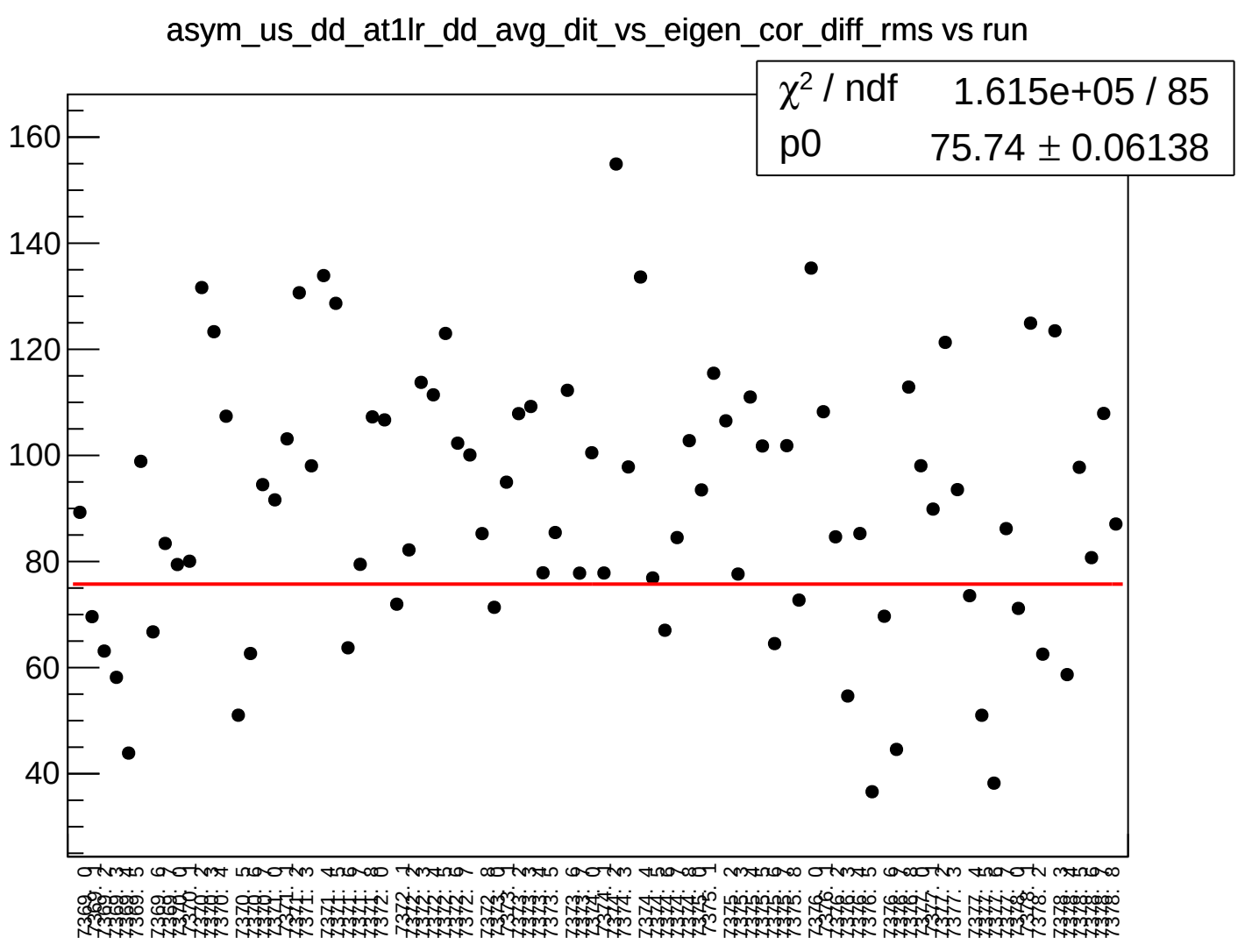


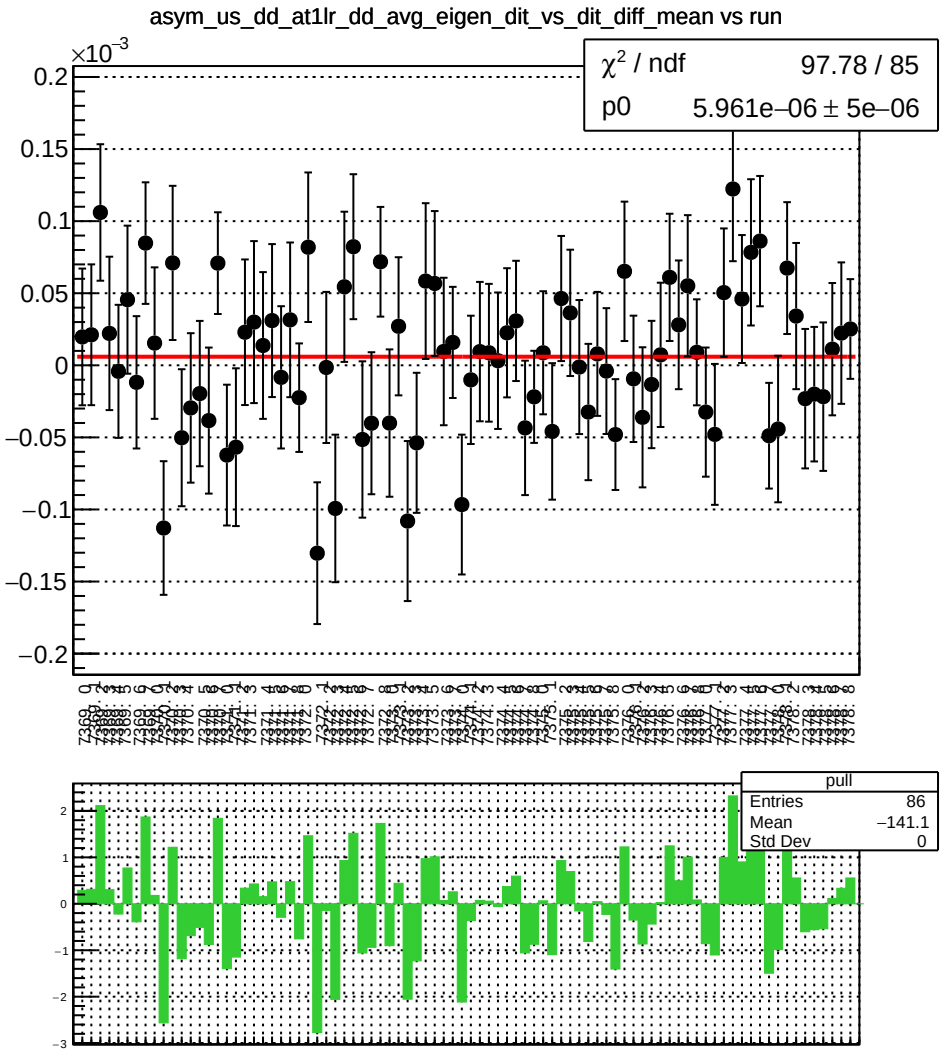


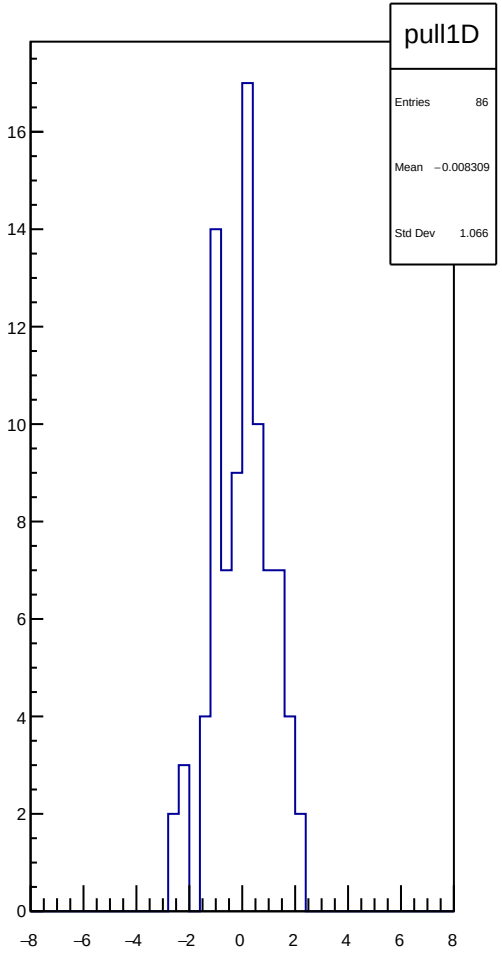


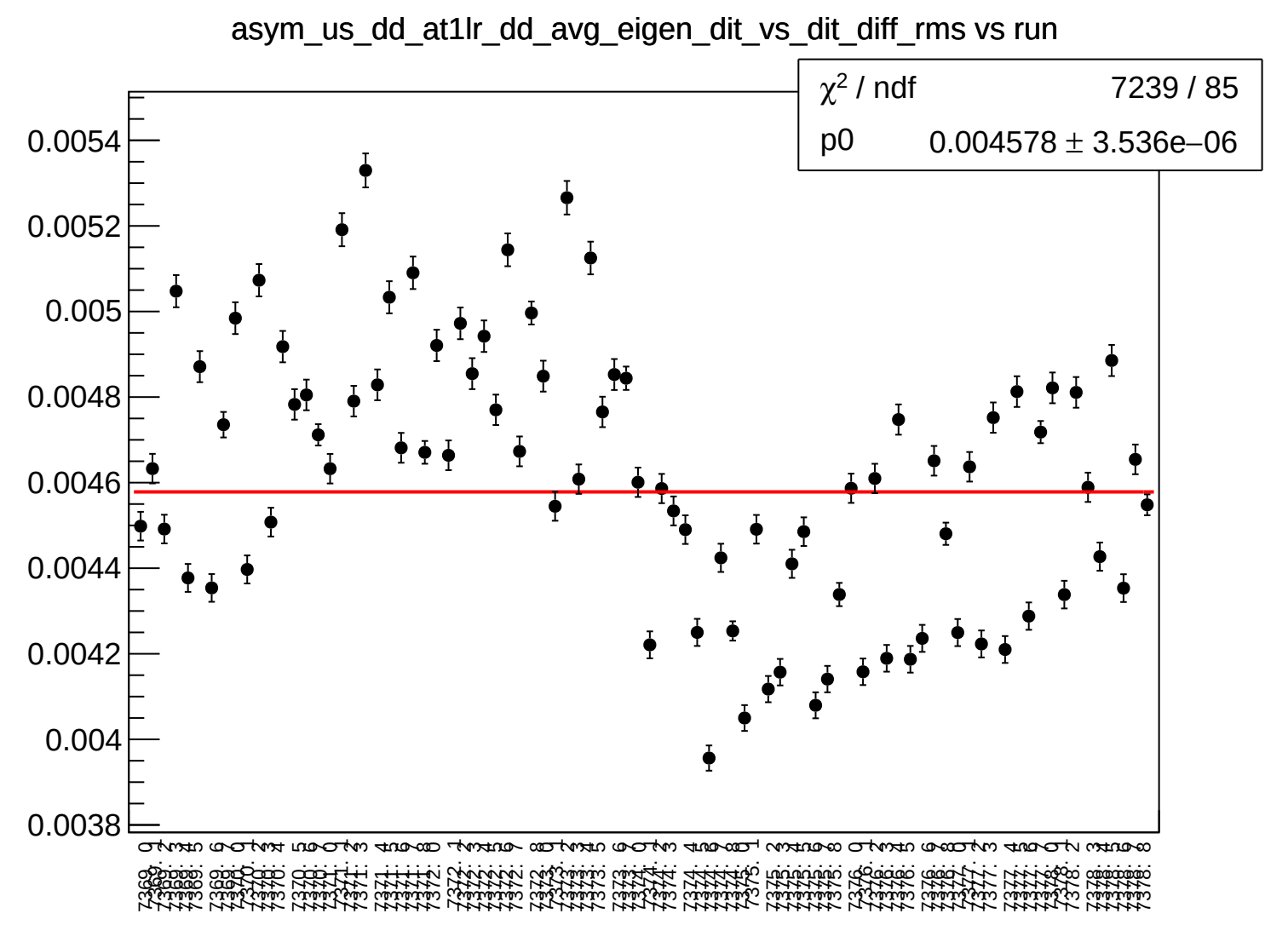

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.615e+05 / 85
p0 75.74 ± 0.06138
160
140
120
100
80
60
40

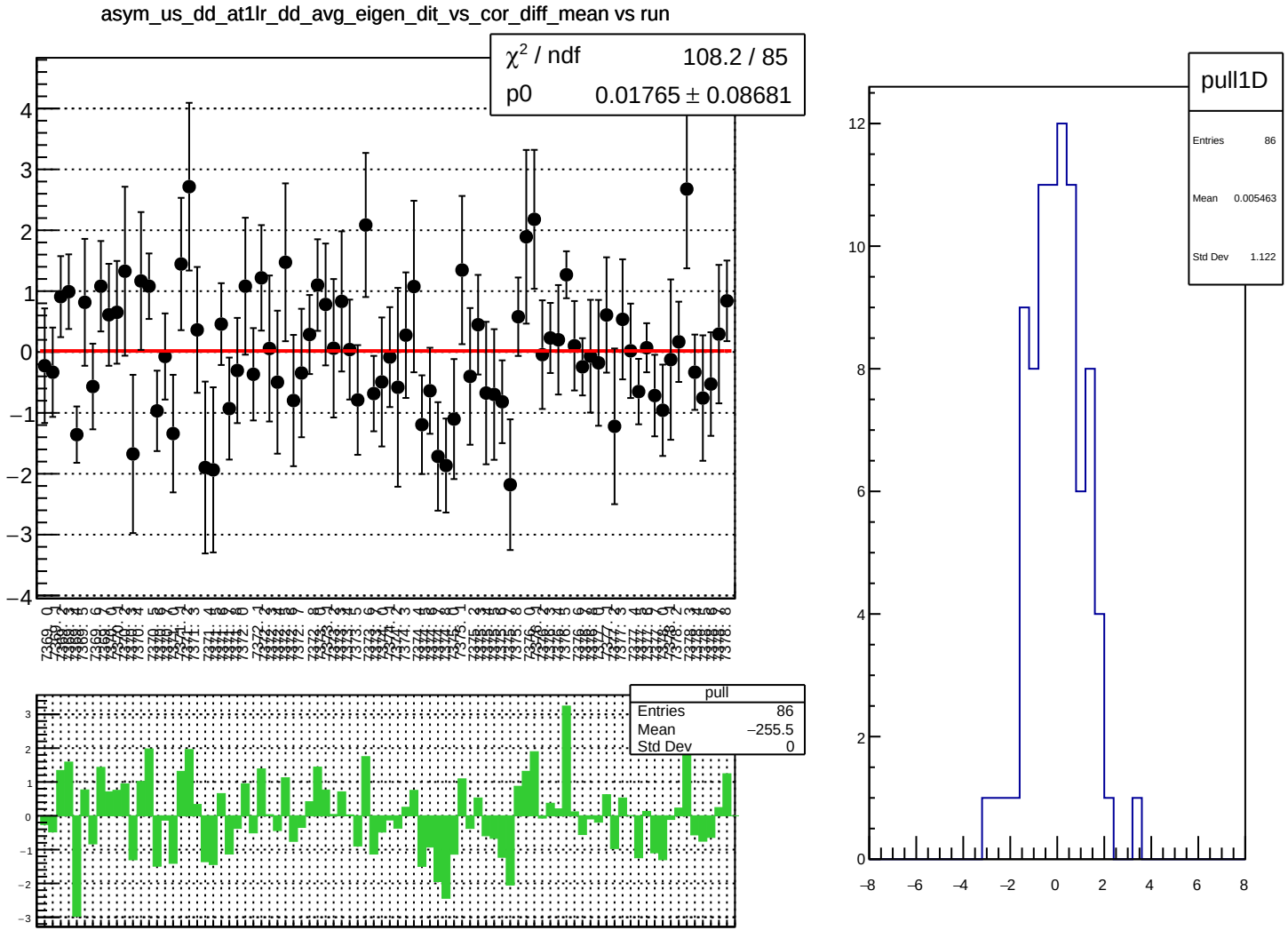

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 85
p0 0.01764 ± 0.08681
pull
Entries 86
Mean −255.7
Std Dev 0
pull1D
Entries 86
Mean 0.005461
Std Dev 1.122

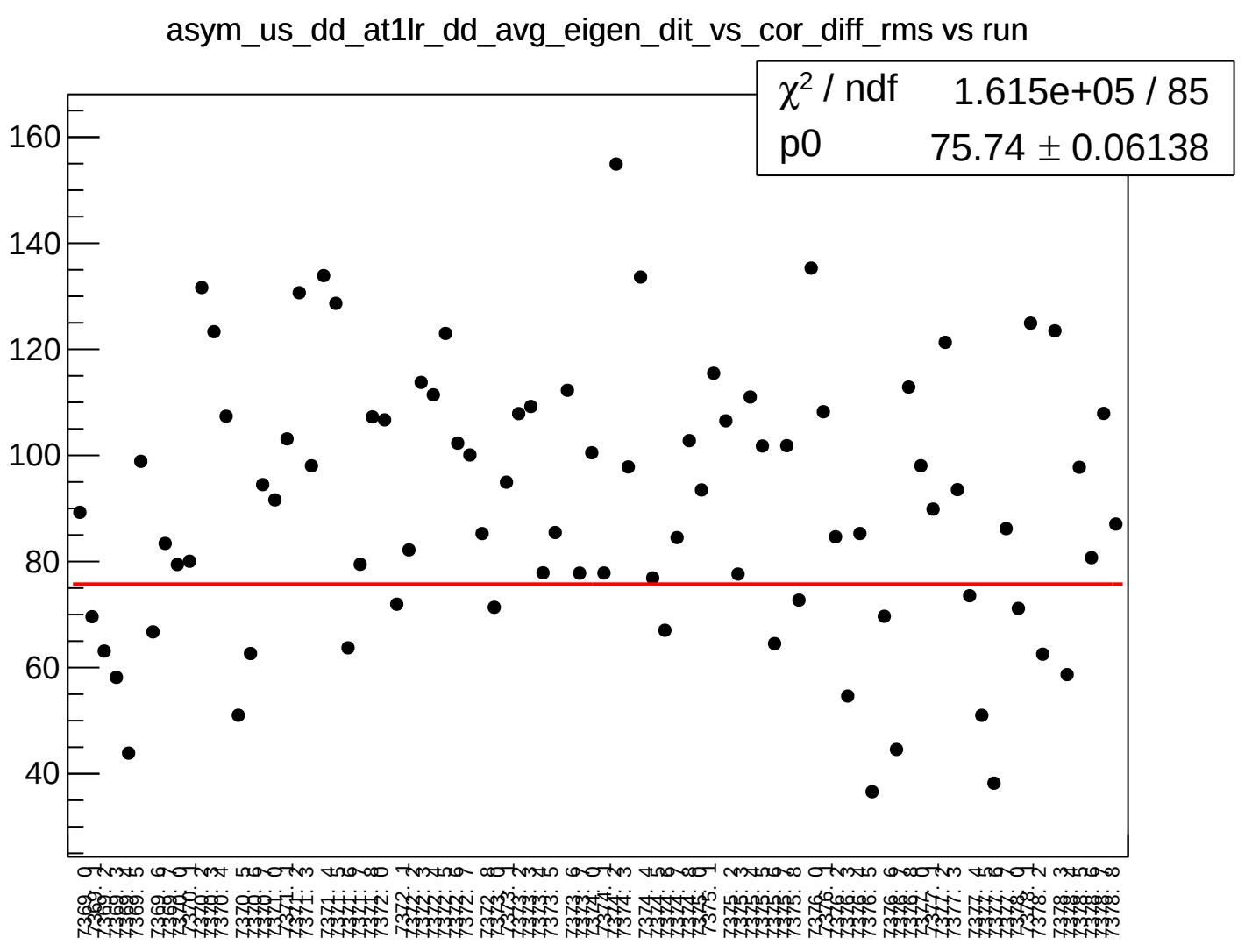

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.615e+05 / 85
p0 75.74 ± 0.06138
160
140
120
100
80
60
40

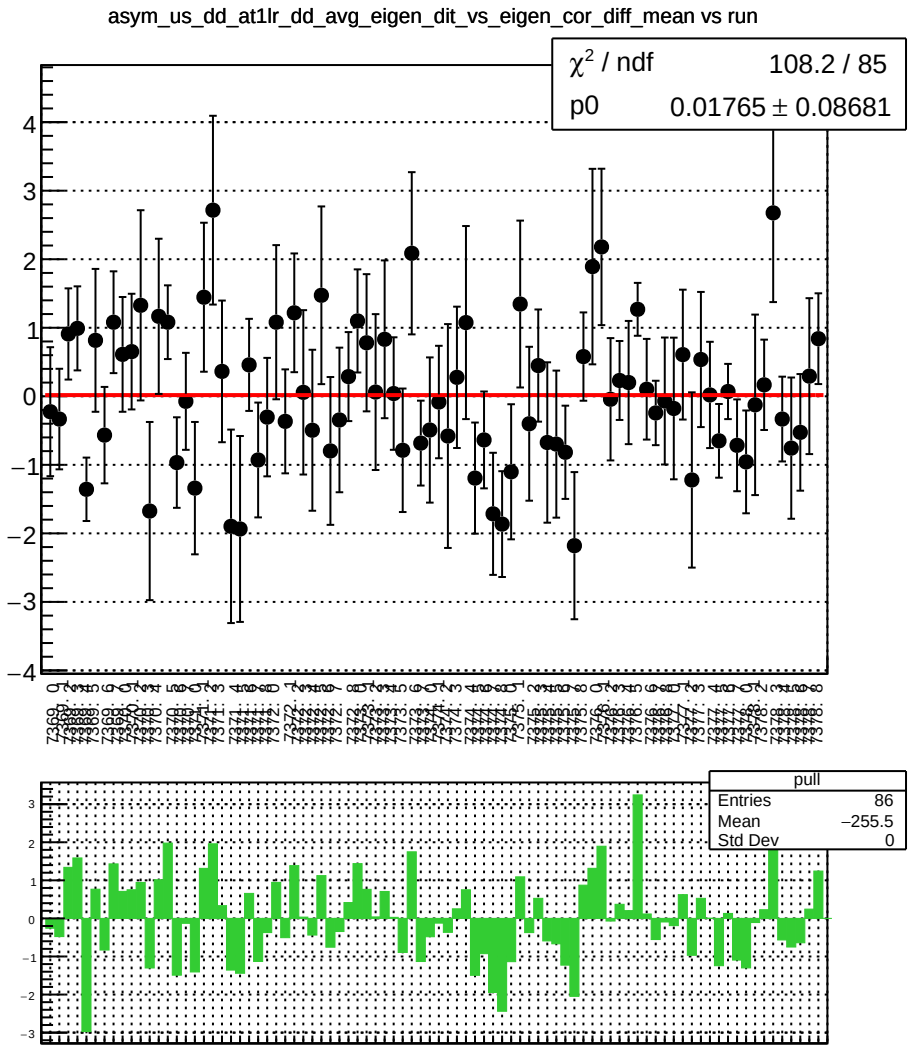

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.78 / 85
p0 5.961e−06 ± 5e−06
pull
Entries 86
Mean −141.1
Std Dev 0

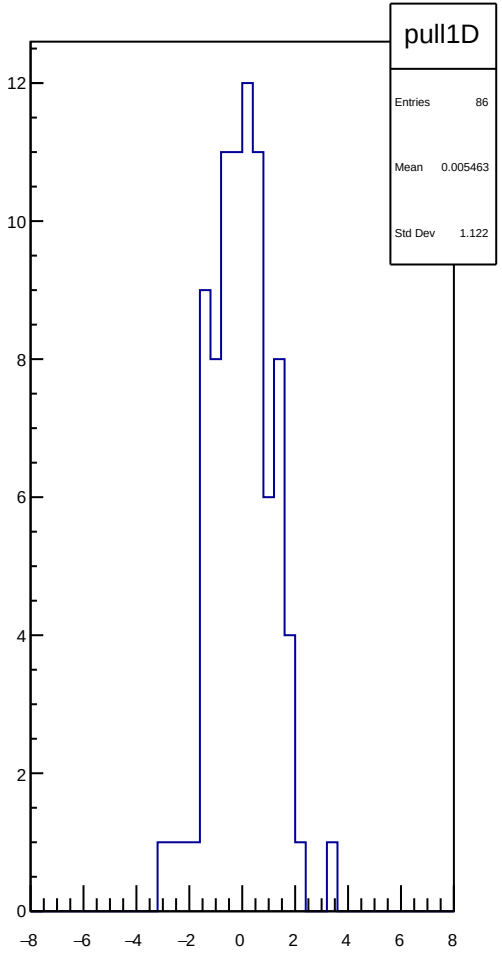

pull1D
Entries 86
Mean −0.008309
Std Dev 1.066

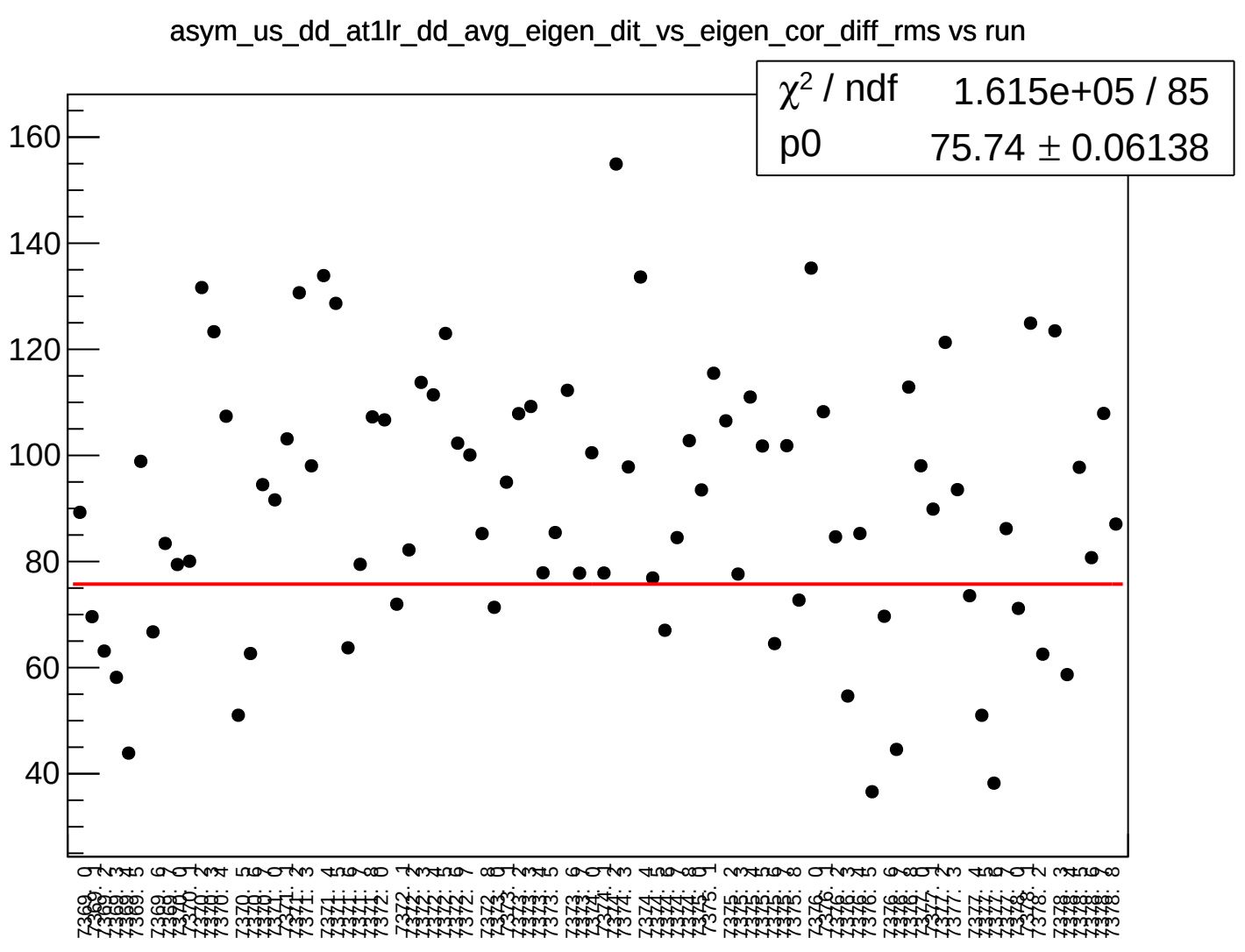

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7239 / 85
p0 0.004578 ± 3.536e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

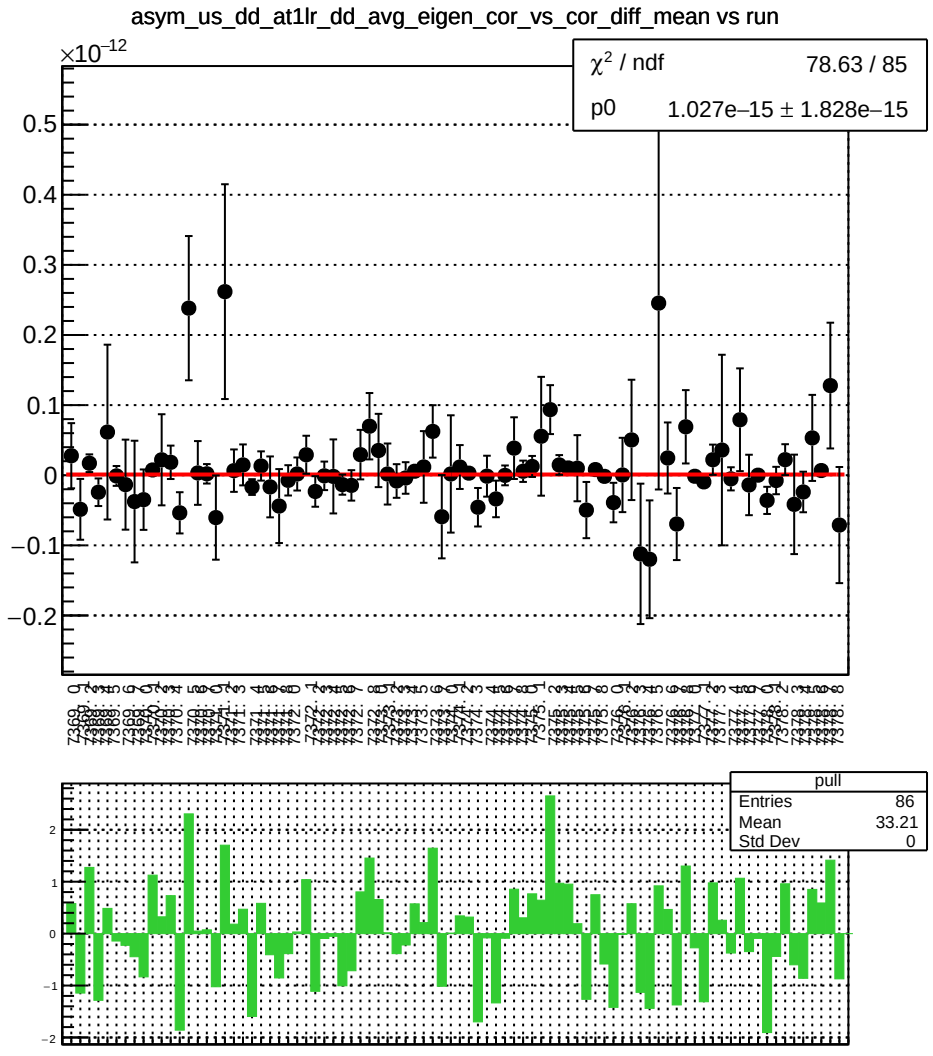

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 85
p0 0.01765 ± 0.08681
pull
Entries 86
Mean −255.5
Std Dev 0
pull1D
Entries 86
Mean 0.005463
Std Dev 1.122

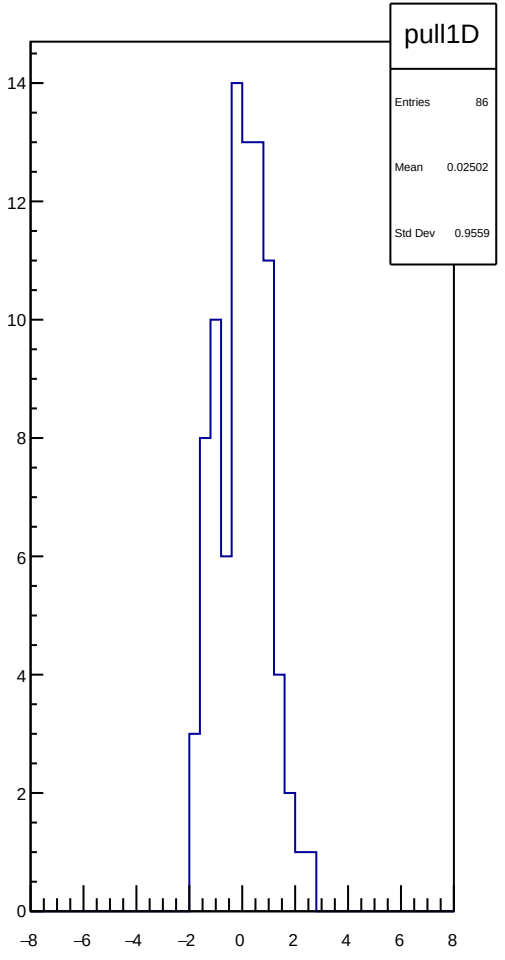

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.615e+05 / 85
p0 75.74 ± 0.06138
160
140
120
100
80
60
40

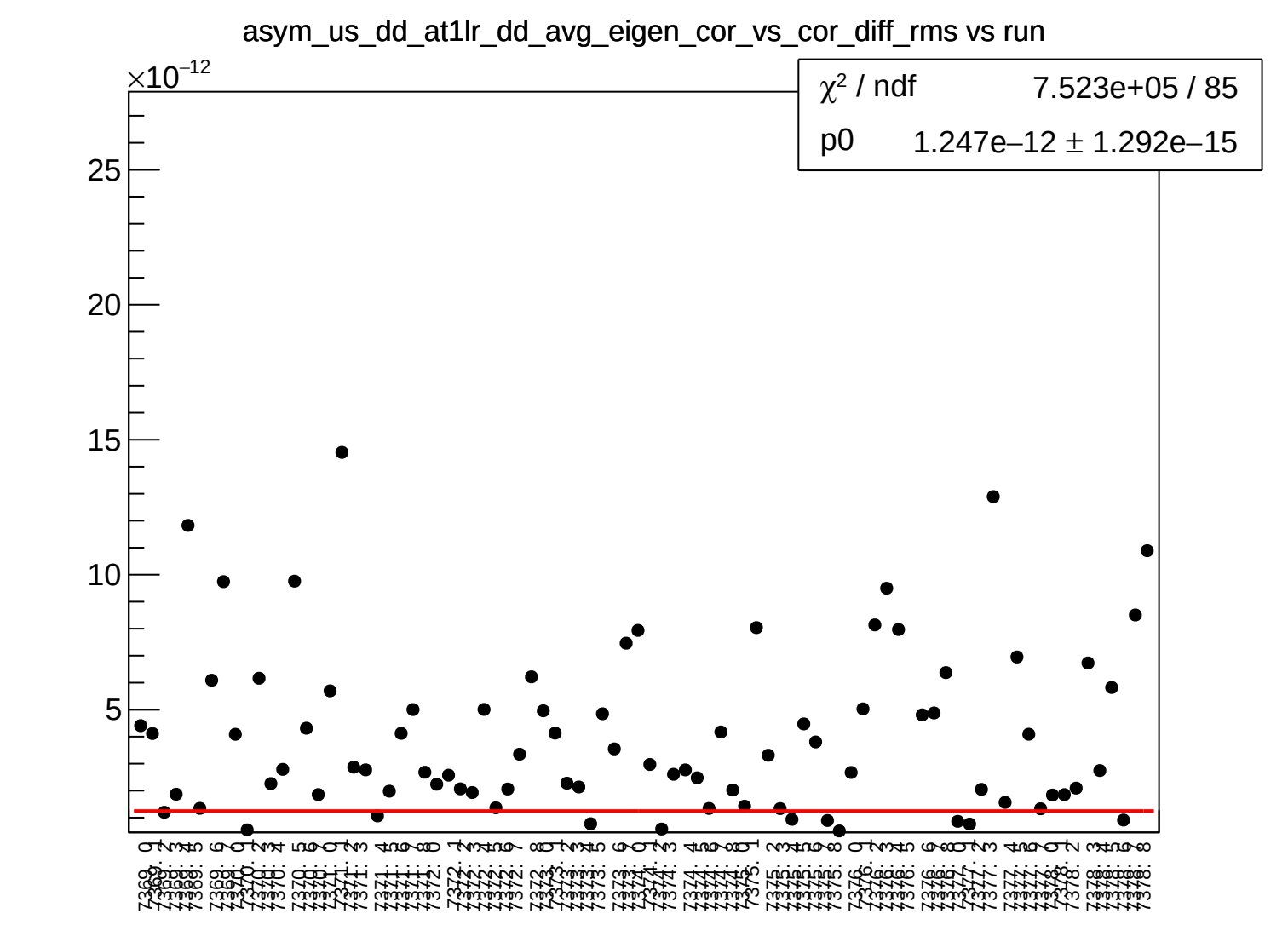

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 85
p0 0.01765 ± 0.08681
pull
Entries 86
Mean −255.5
Std Dev 0

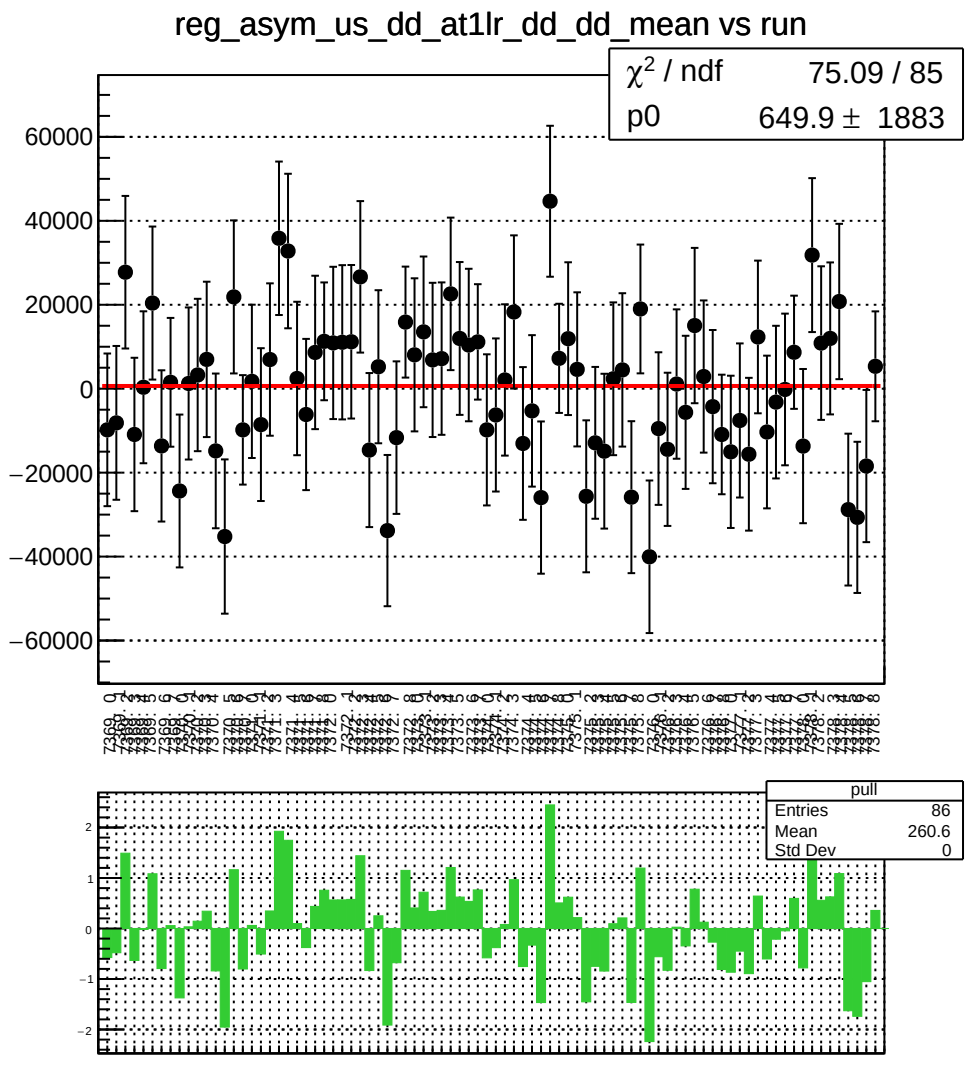

pull1D
Entries 86
Mean 0.005463
Std Dev 1.122

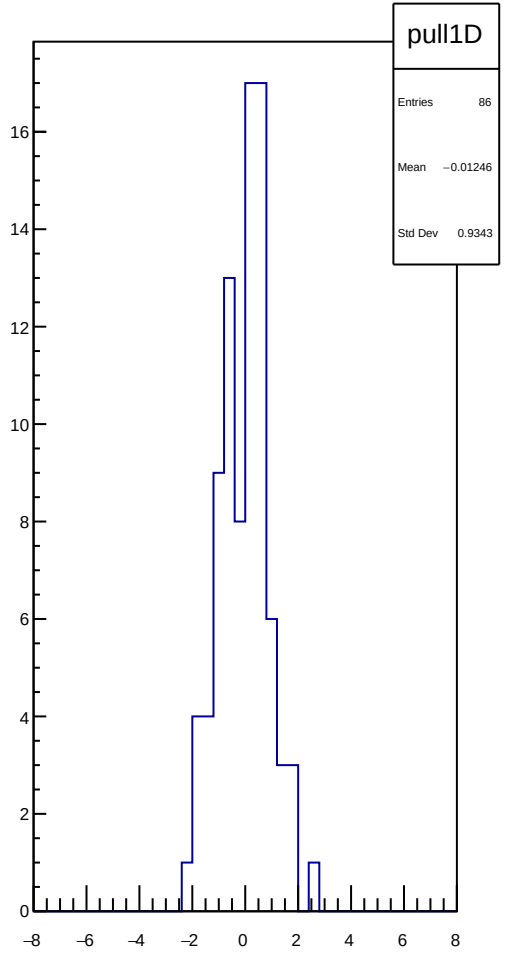

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.615e+05 / 85
p0 75.74 ± 0.06138
160
140
120
100
80
60
40

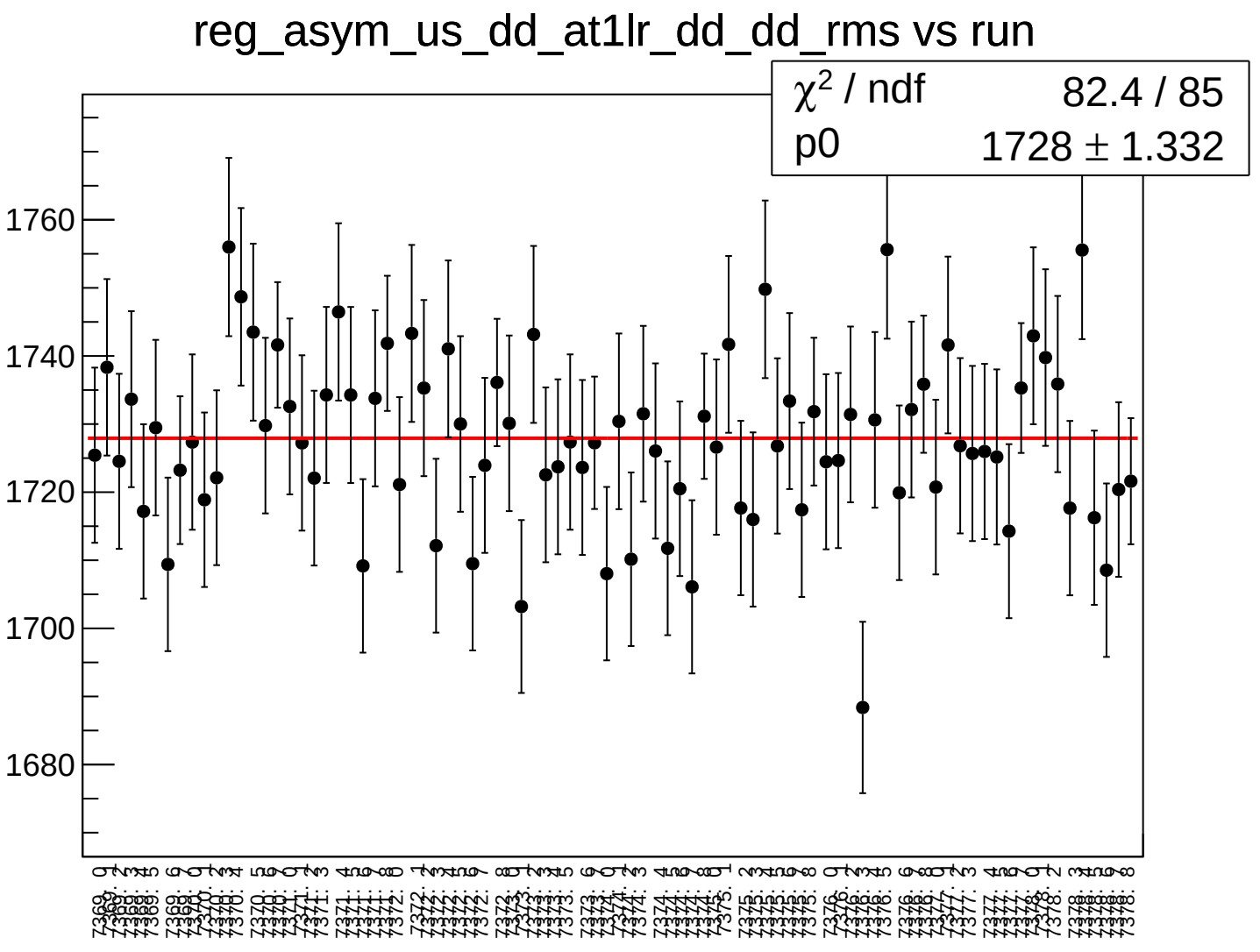

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.63 / 85
p0 1.027e−15 ± 1.828e−15
pull
Entries 86
Mean 33.21
Std Dev 0

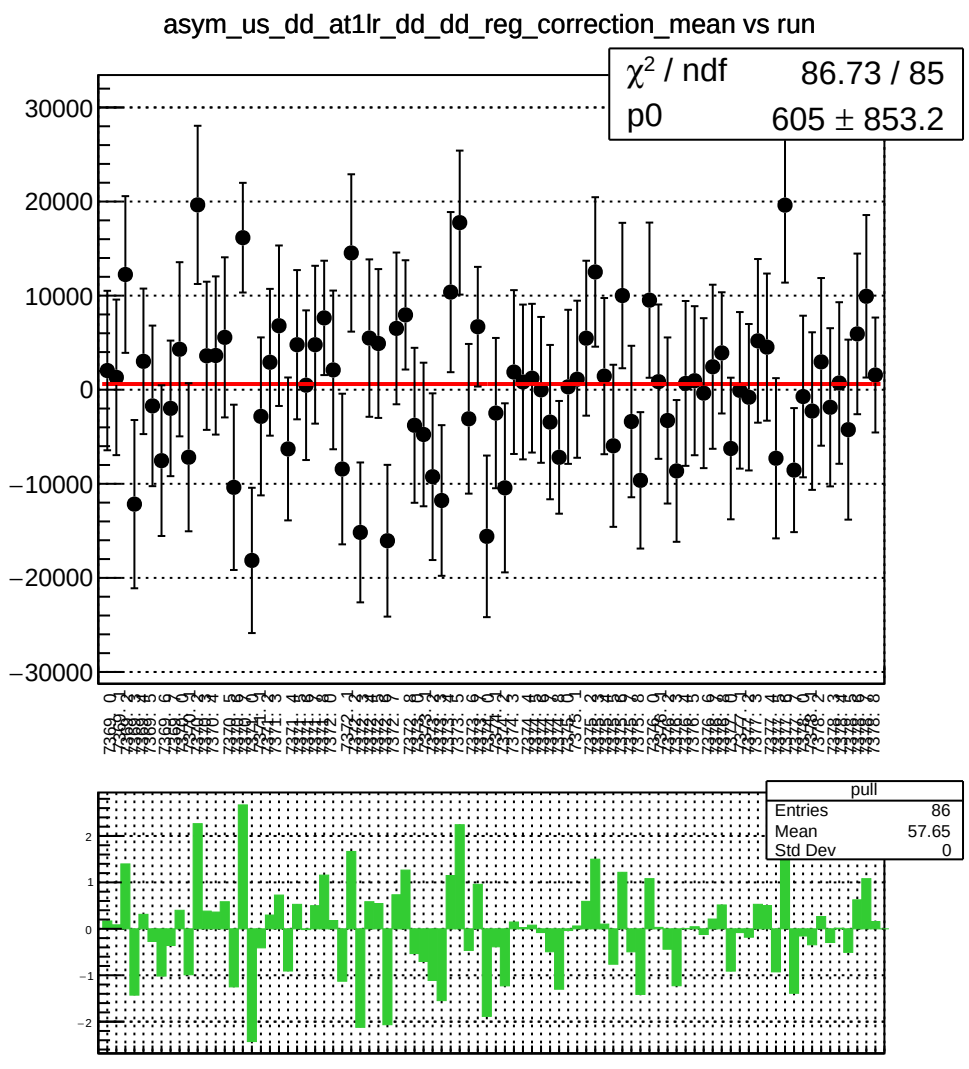

pull1D
Entries 86
Mean 0.02502
Std Dev 0.9559

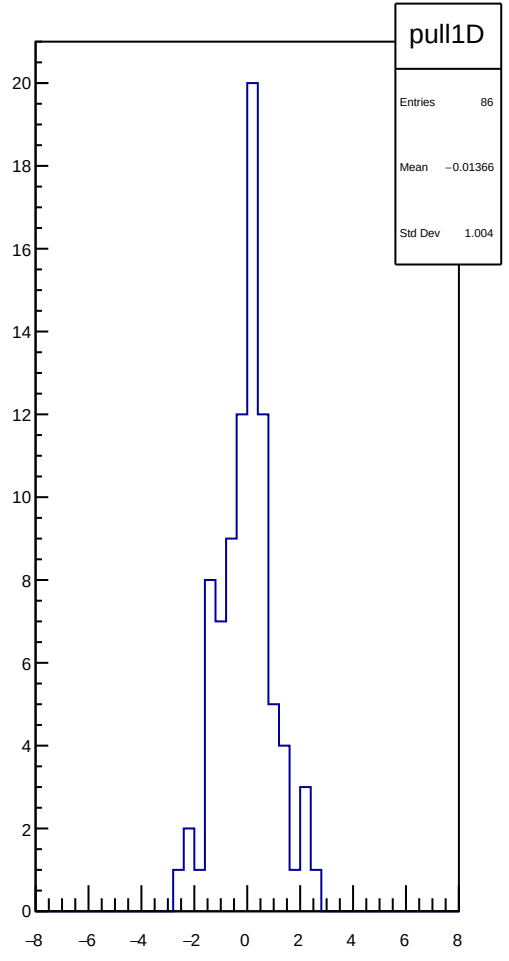

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.523e+05 / 85
p0 1.247e−12 ± 1.292e−15
25
20
15
10
5

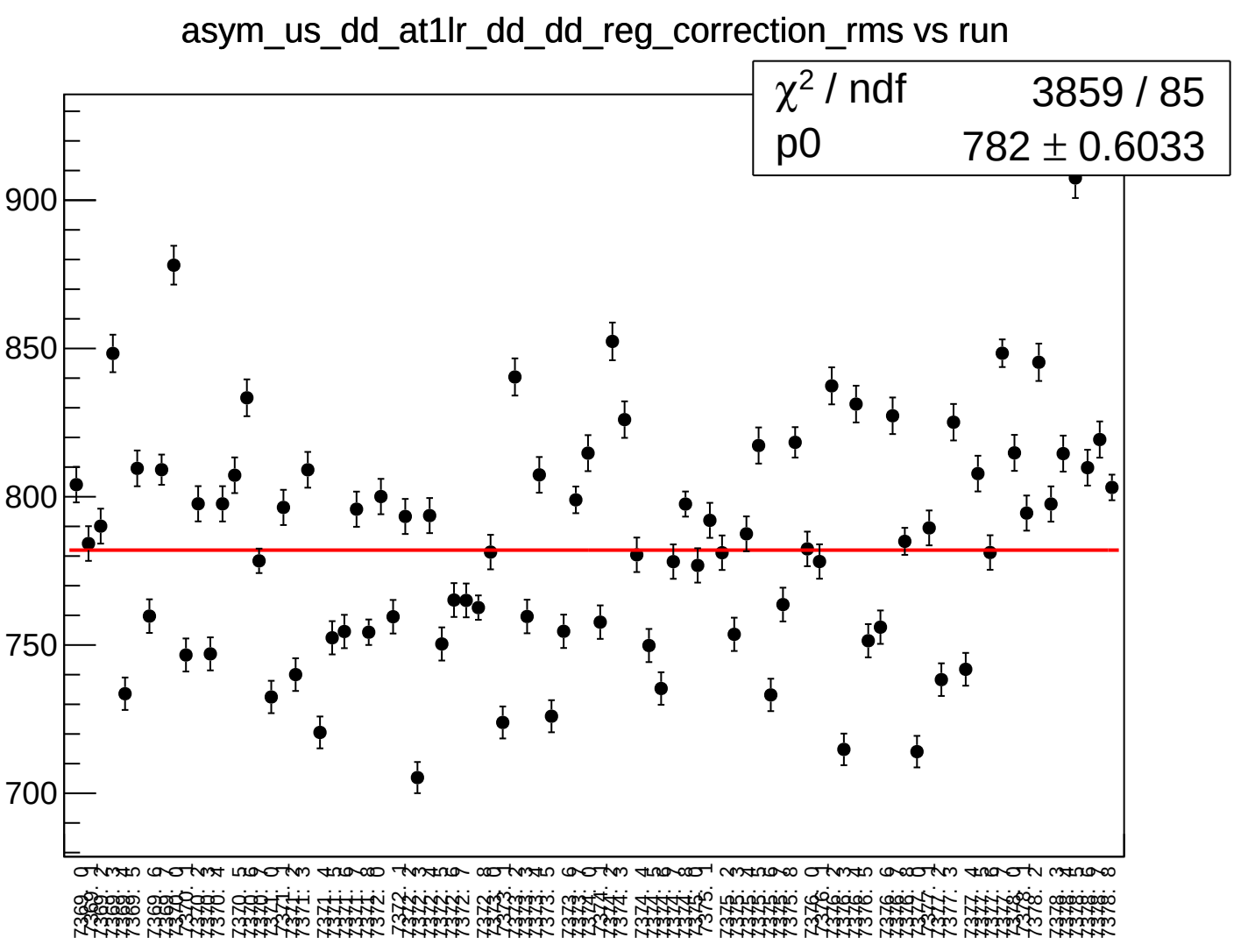

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.09 / 85
p0 649.9 ± 1883
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 260.6
Std Dev 0
2
1
0
−1
−2

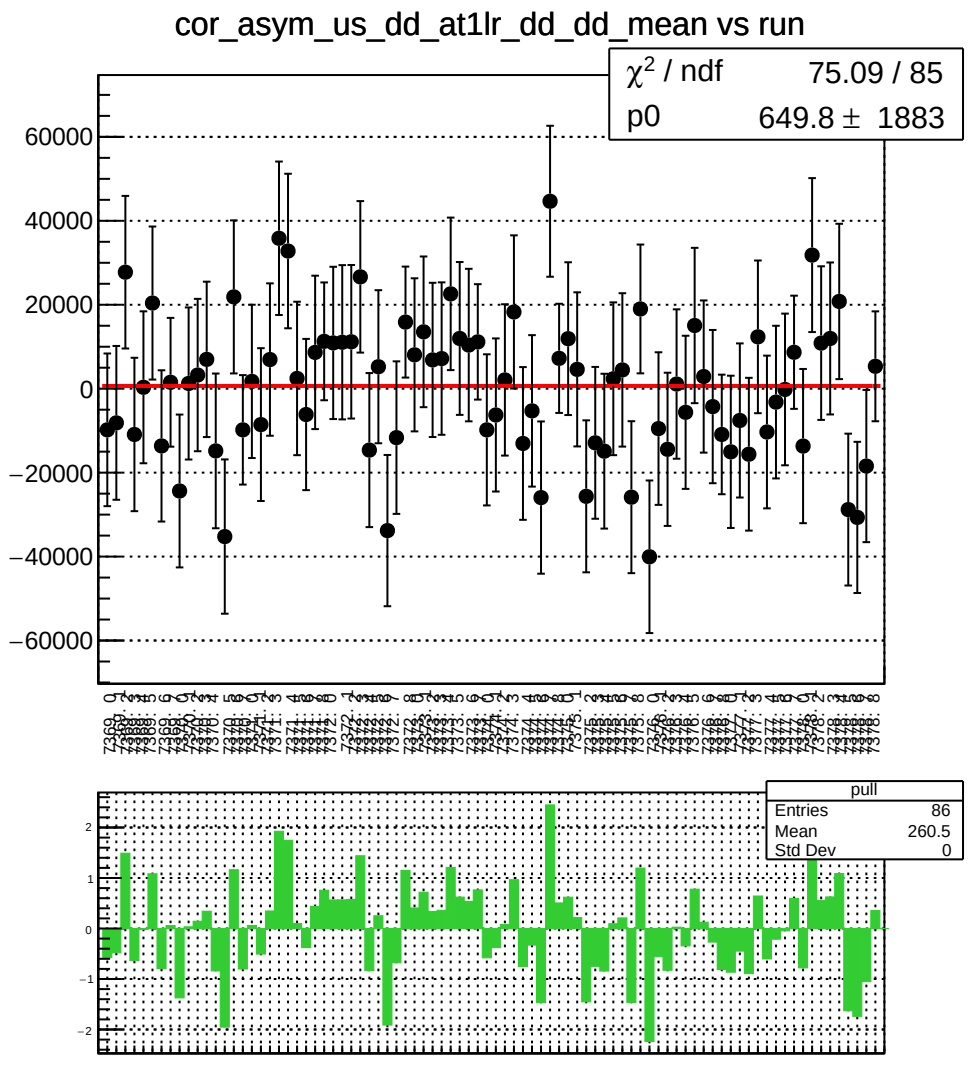

pull1D
Entries 86
Mean −0.01246
Std Dev 0.9343
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

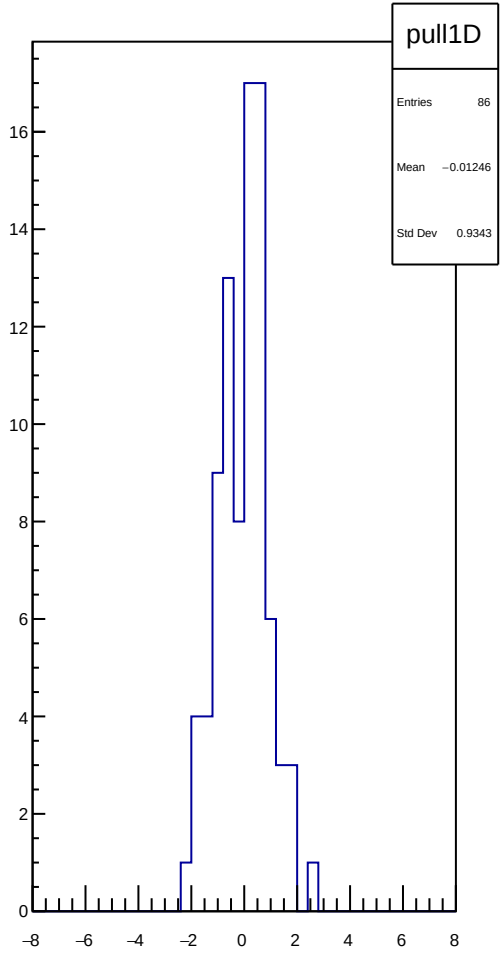

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 82.4 / 85
p0 1728 ± 1.332
1760
1740
1720
1700
1680

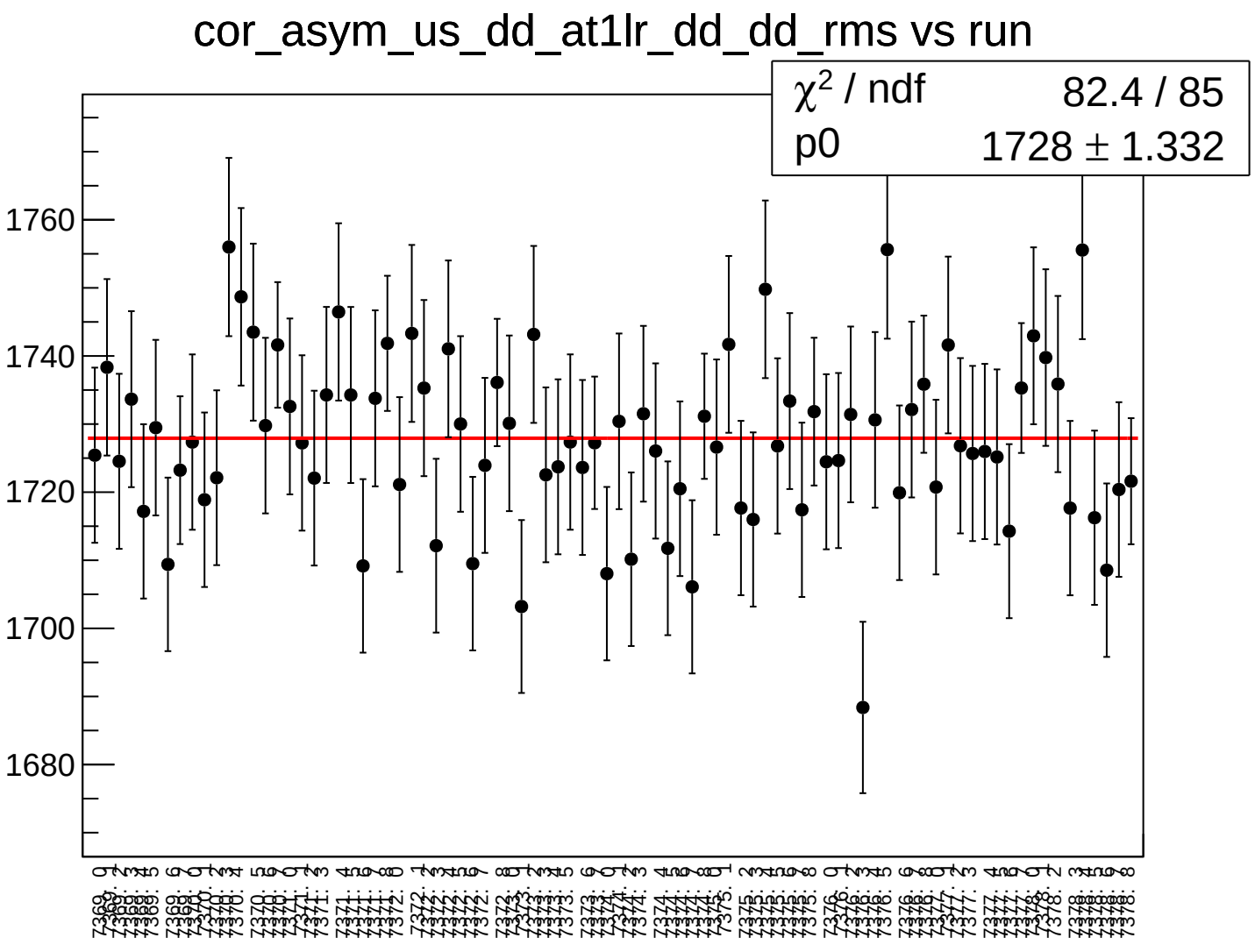

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 86.73 / 85
p0 605 ± 853.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 57.65
Std Dev 0
2
1
0
−1
−2

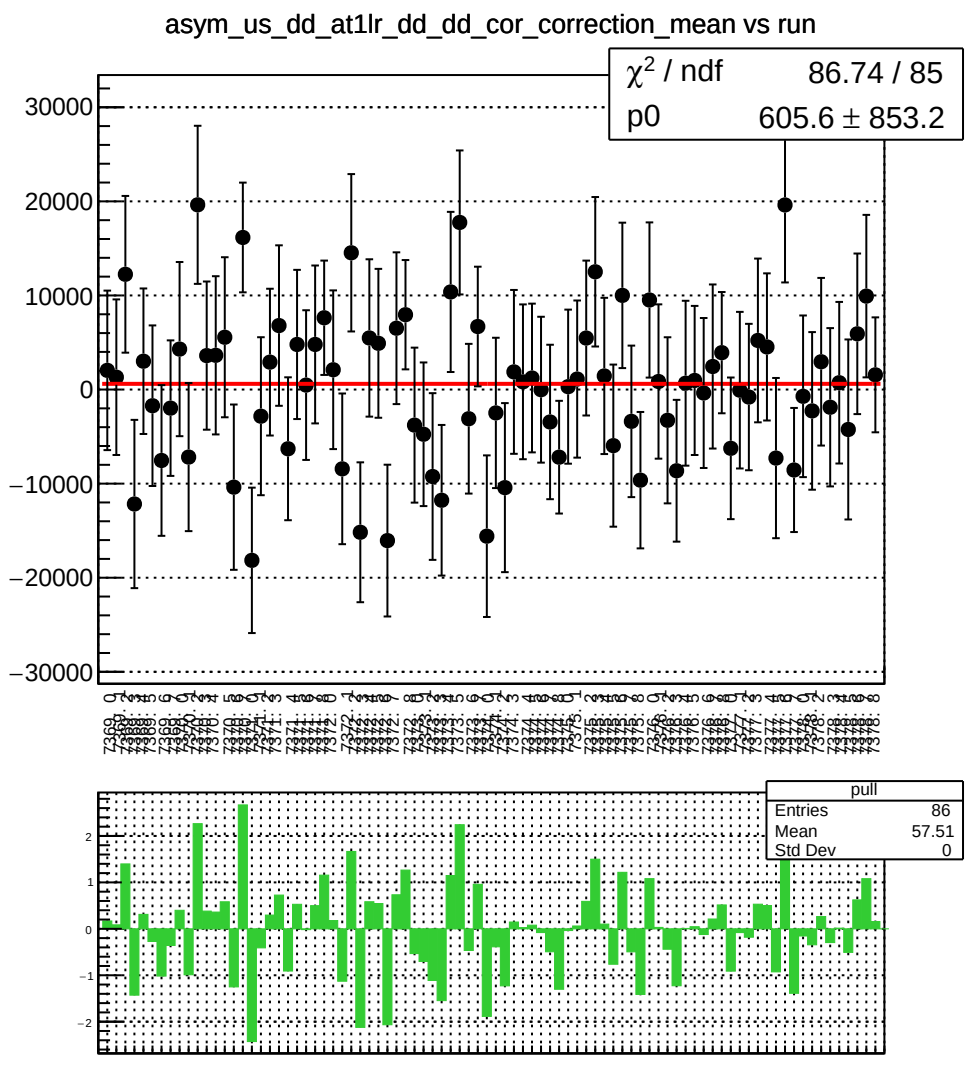

pull1D
Entries 86
Mean −0.01366
Std Dev 1.004
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

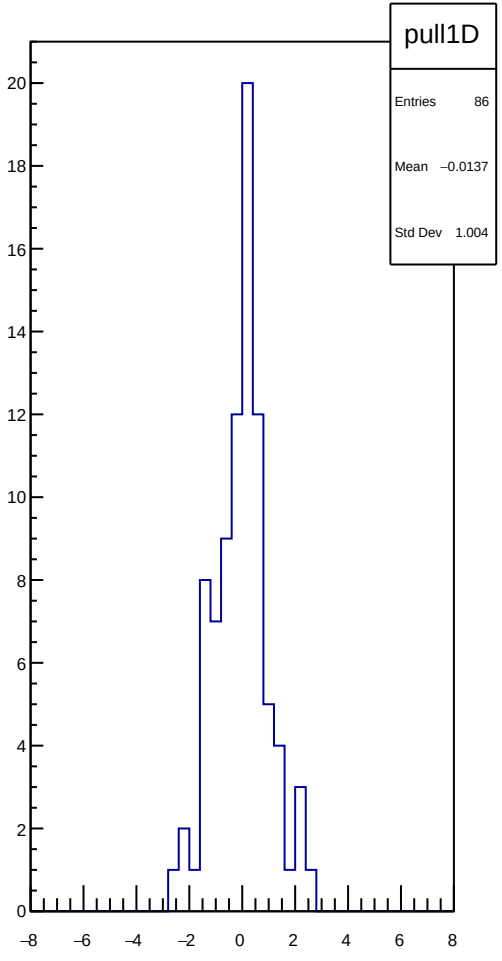

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3859 / 85
p0 782 ± 0.6033
900
850
800
750
700

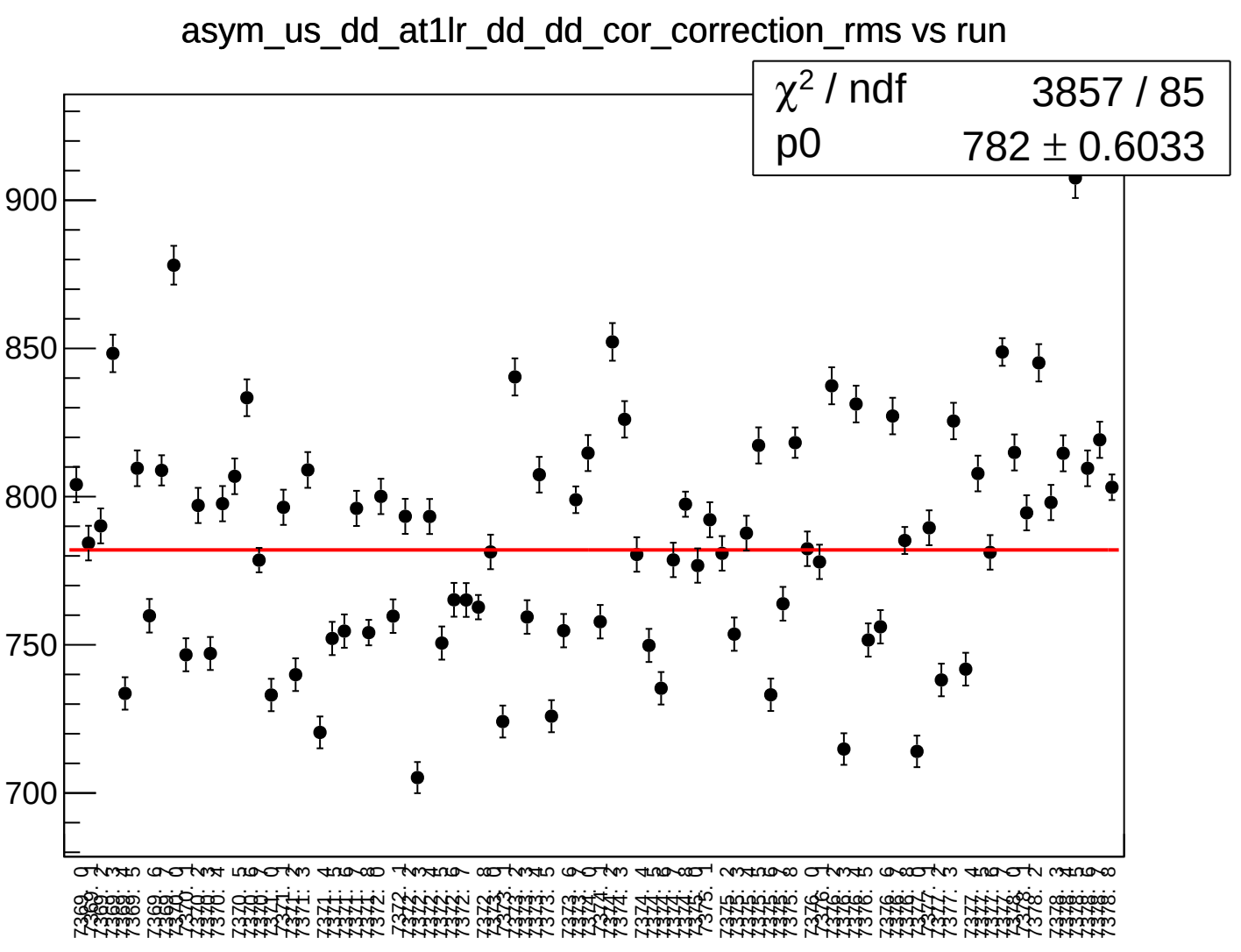

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.09 / 85
p0 649.8 ± 1883
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 260.5
Std Dev 0
2
1
0
−1
−2

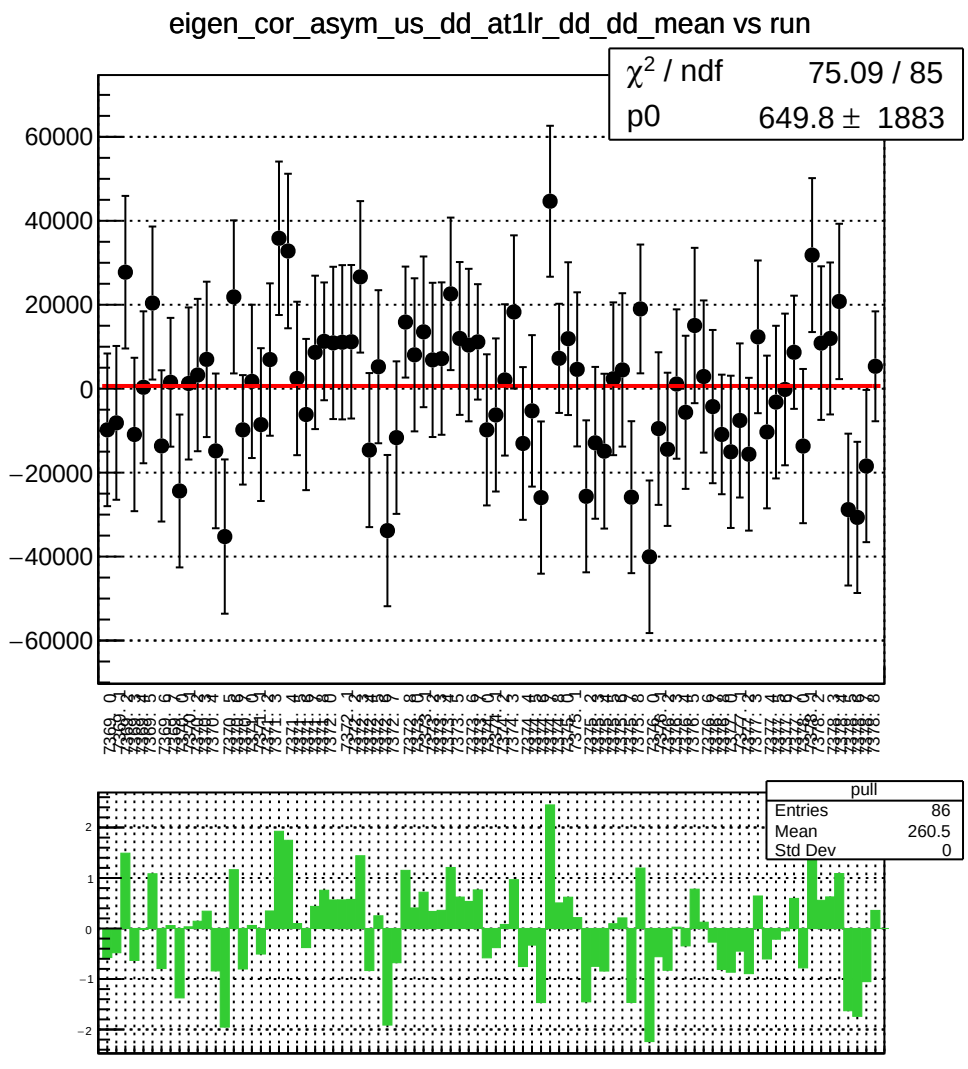

pull1D
Entries 86
Mean −0.01246
Std Dev 0.9343
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

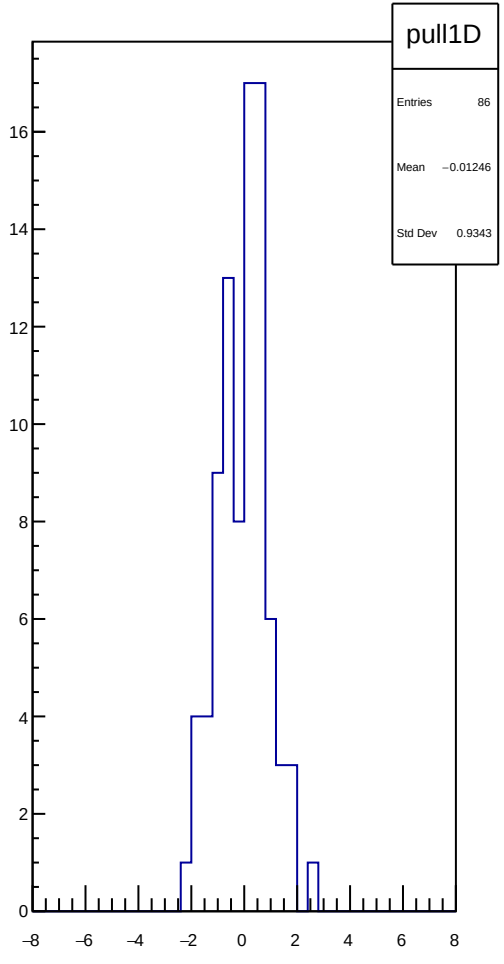

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 82.4 / 85
p0 1728 ± 1.332
1760
1740
1720
1700
1680

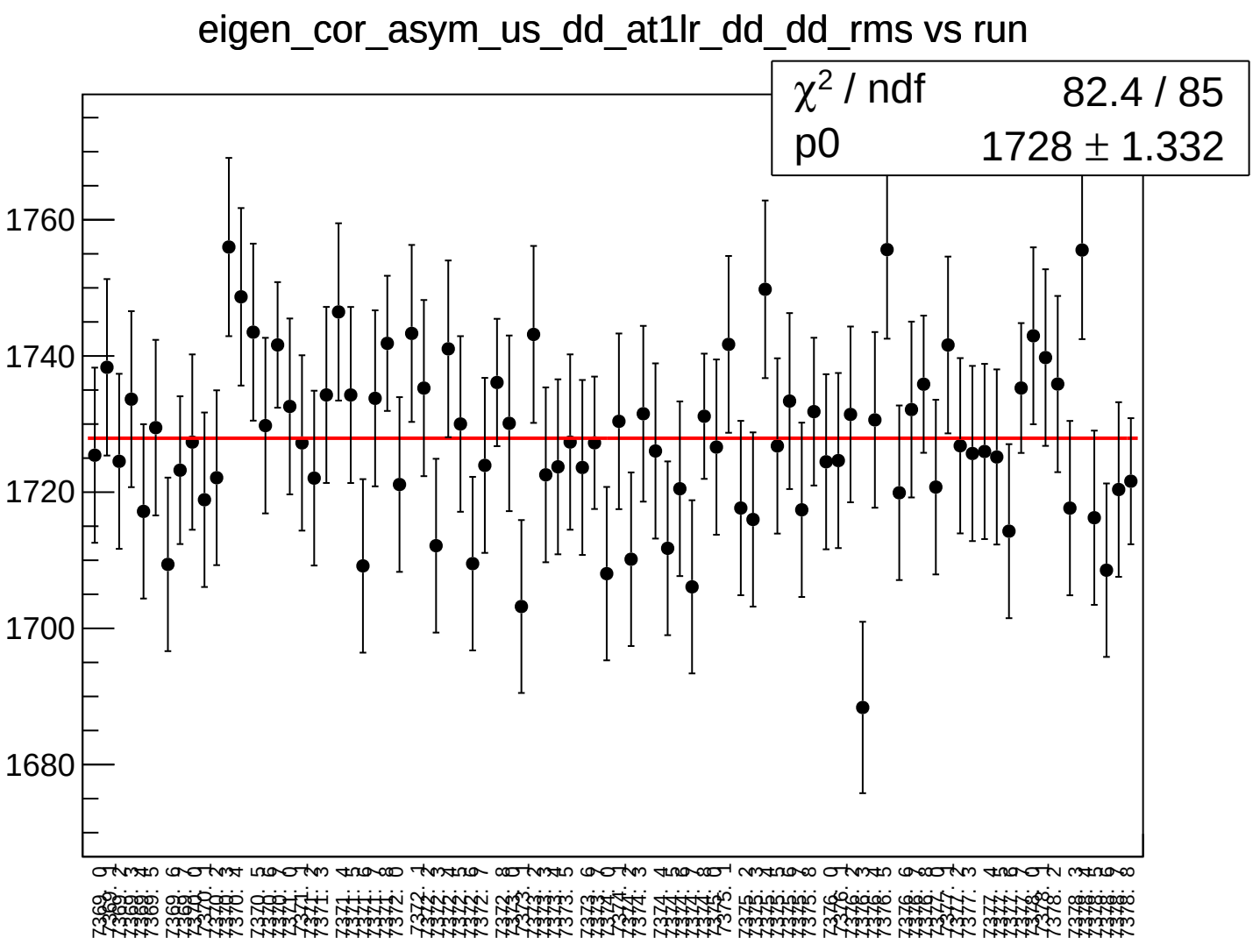

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ^2 / ndf 86.74 / 85
p0 605.6 ± 853.2
pull
Entries 86
Mean 57.51
Std Dev 0

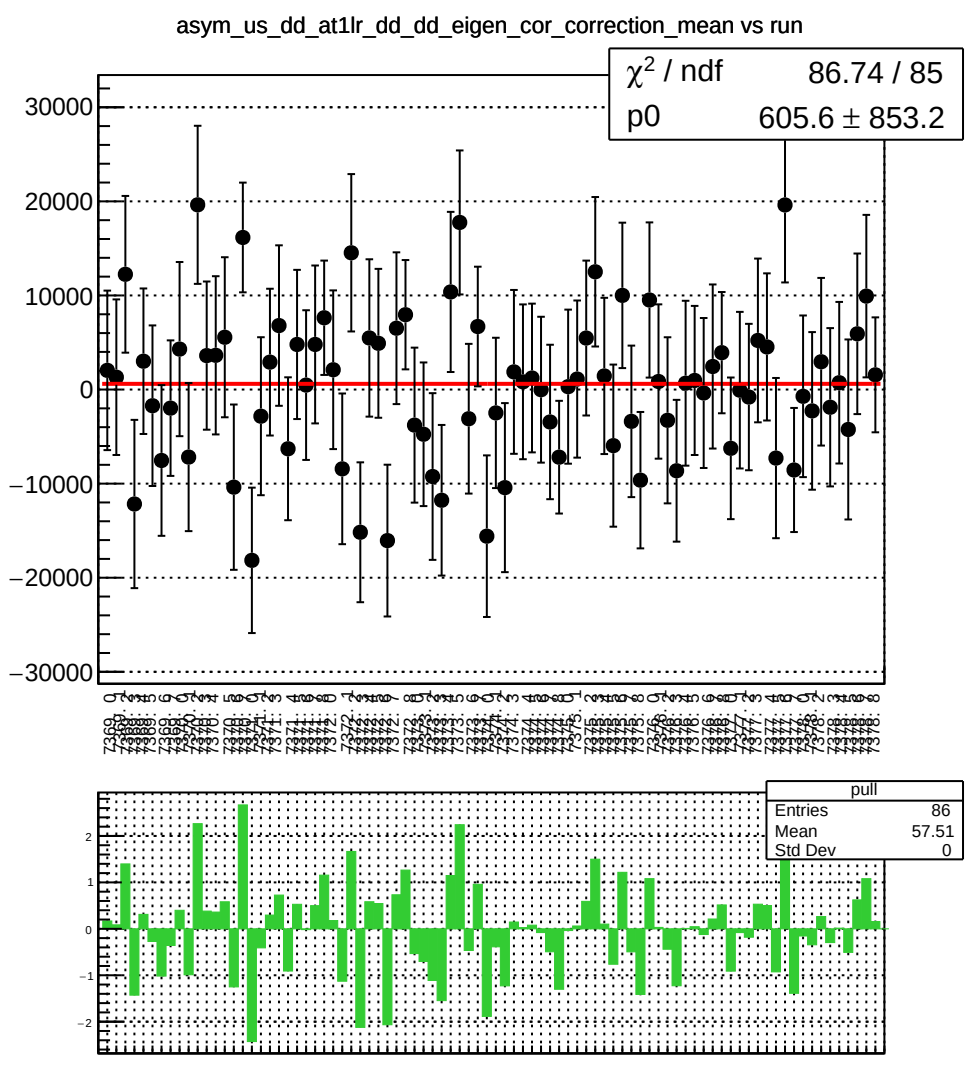

pull1D
Entries 86
Mean −0.0137
Std Dev 1.004

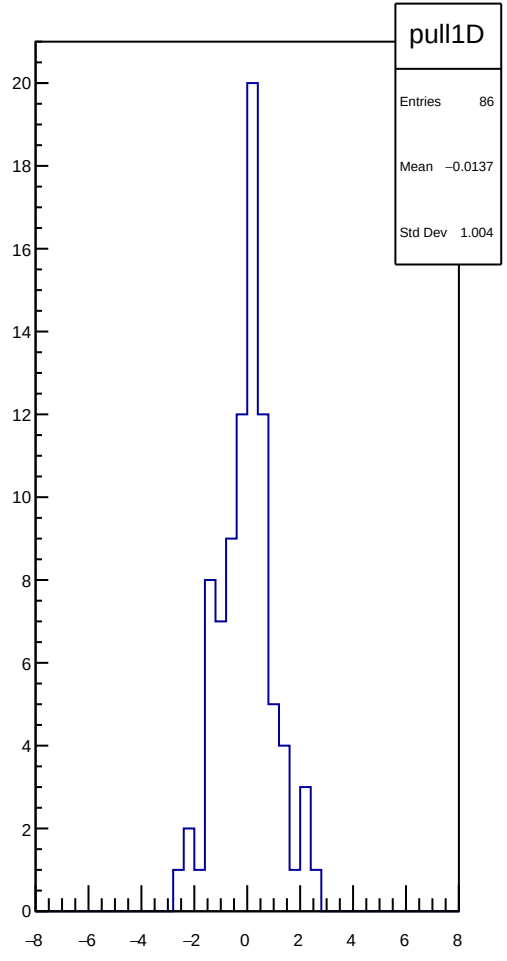

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3857 / 85
p0 782 ± 0.6033
900
850
800
750
700

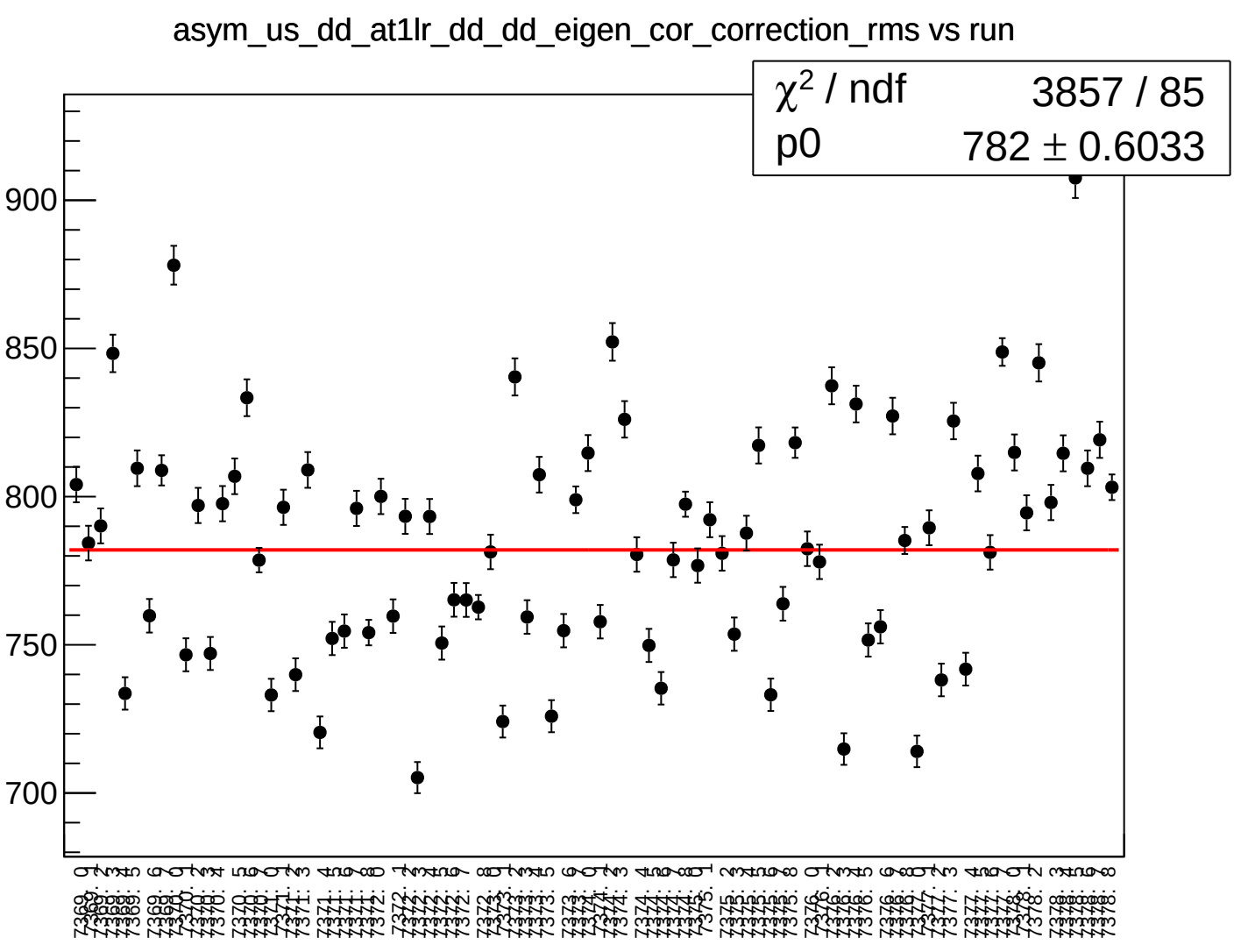

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.09 / 85
p0 649.8 ± 1883
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 260.5
Std Dev 0
2
1
0
−1
−2

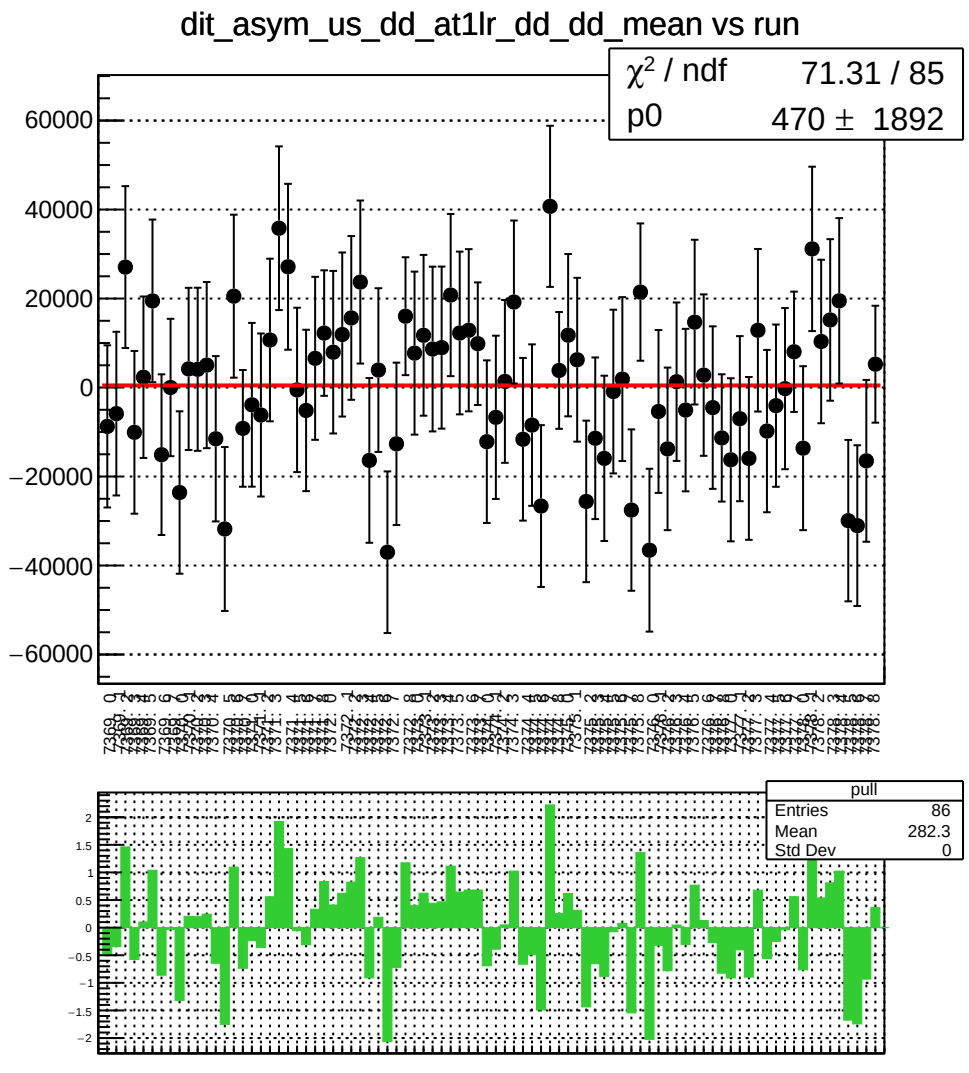

pull1D
Entries 86
Mean −0.01246
Std Dev 0.9343
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

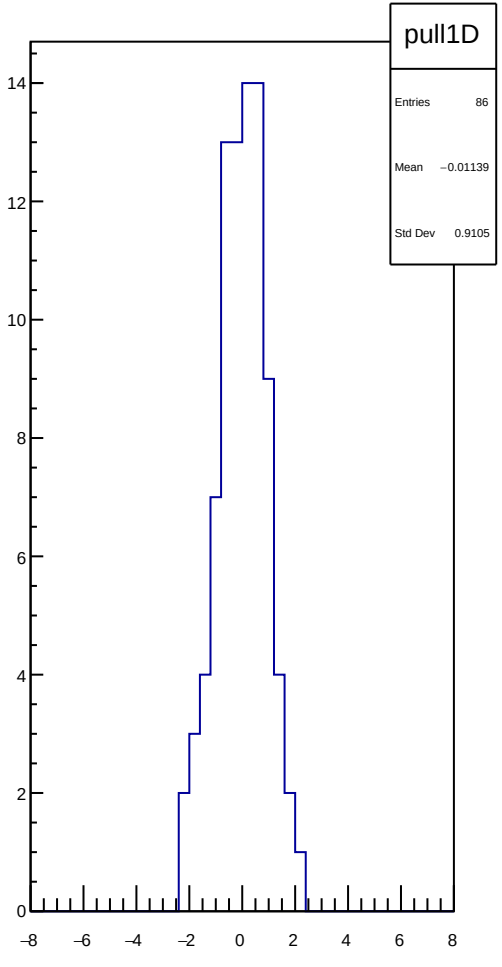

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 82.4 / 85
p0 1728 ± 1.332
1760
1740
1720
1700
1680

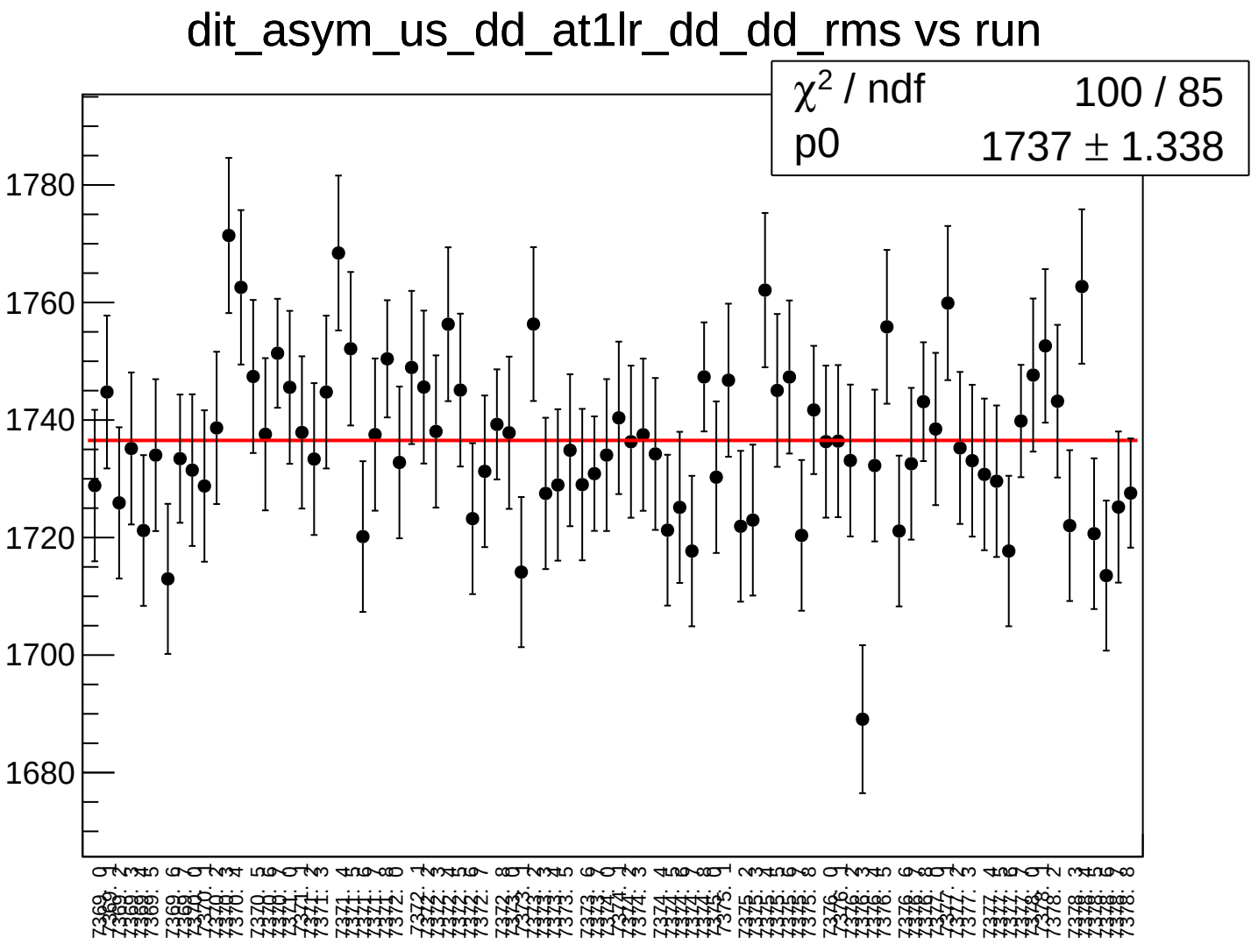

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.74 / 85
p0 605.6 ± 853.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 57.51
Std Dev 0
2
1
0
−1
−2

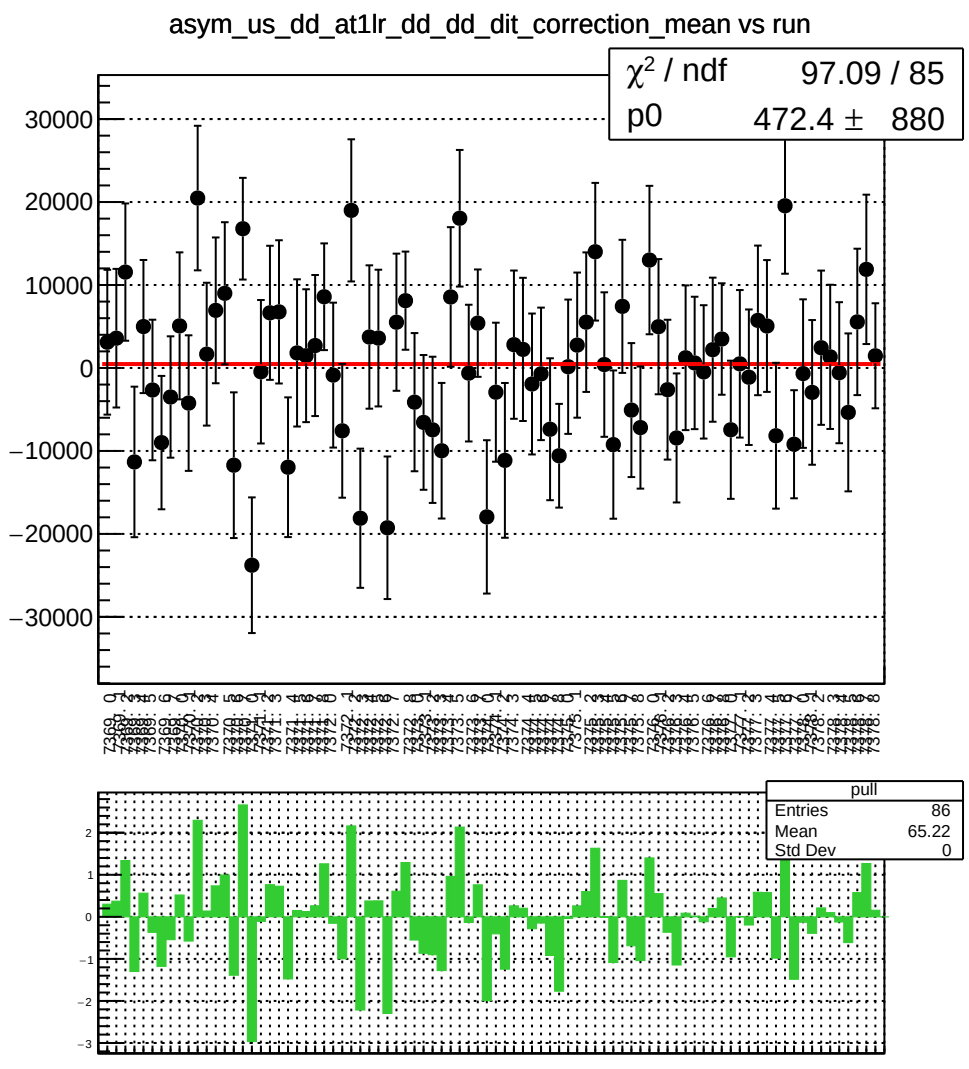

pull1D
Entries 86
Mean −0.0137
Std Dev 1.004
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

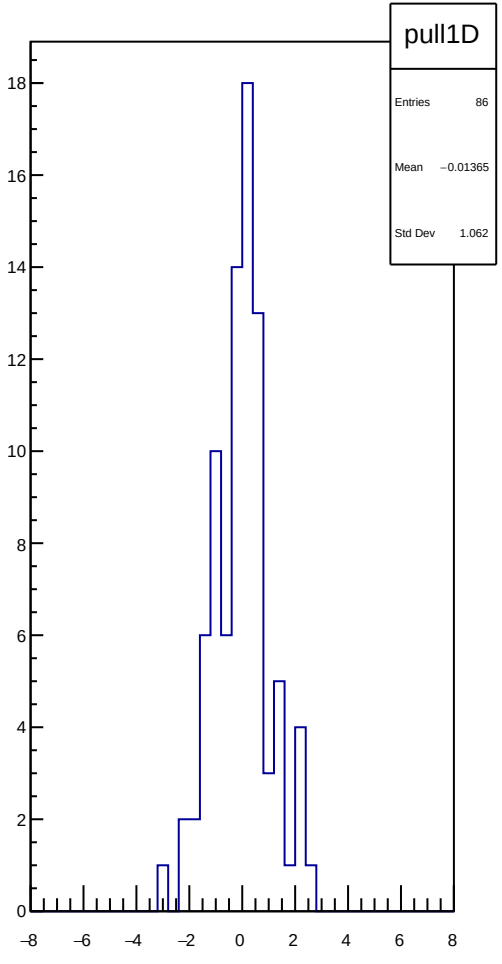

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3857 / 85
p0 782 ± 0.6033
900
850
800
750
700

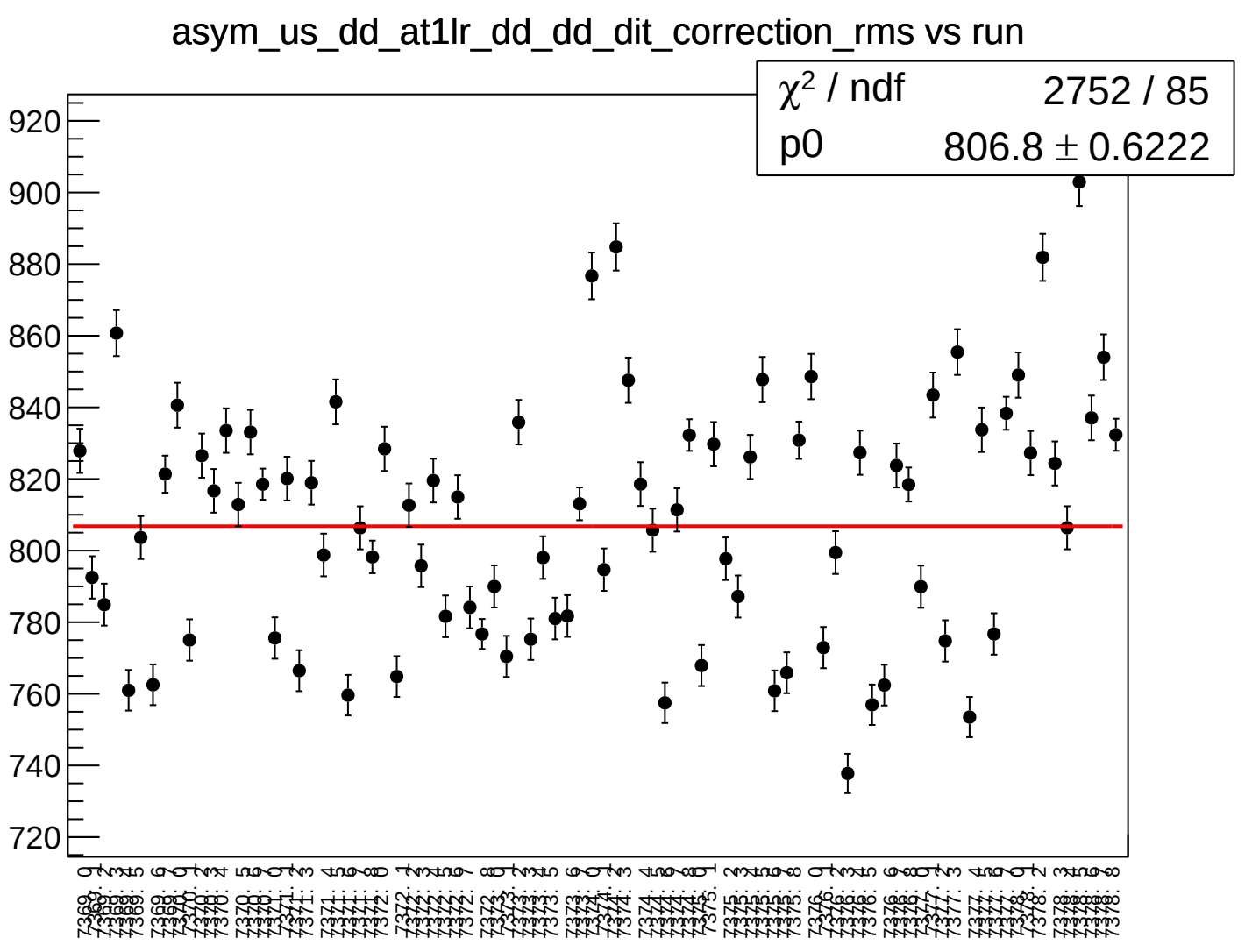

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 71.31 / 85
p0 470 ± 1892
pull
Entries 86
Mean 282.3
Std Dev 0

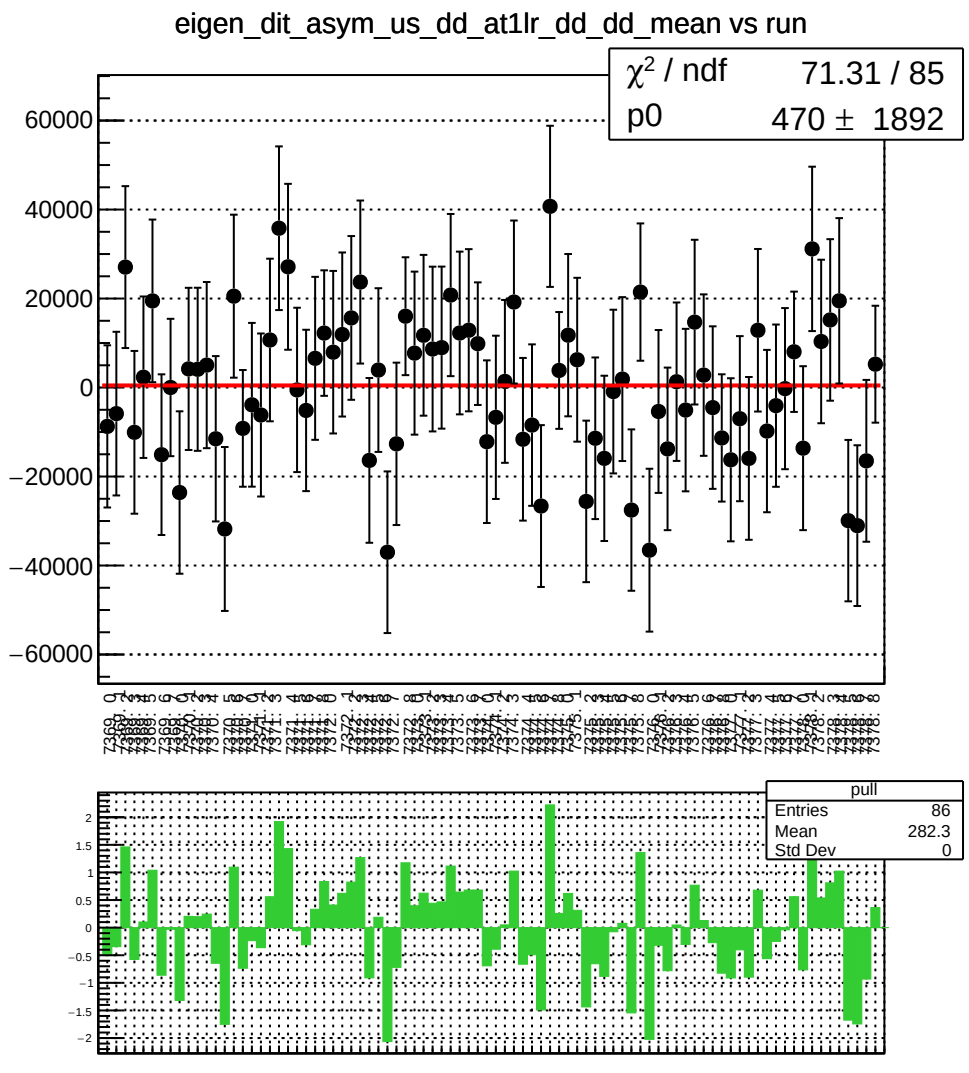

pull1D
Entries 86
Mean −0.01139
Std Dev 0.9105

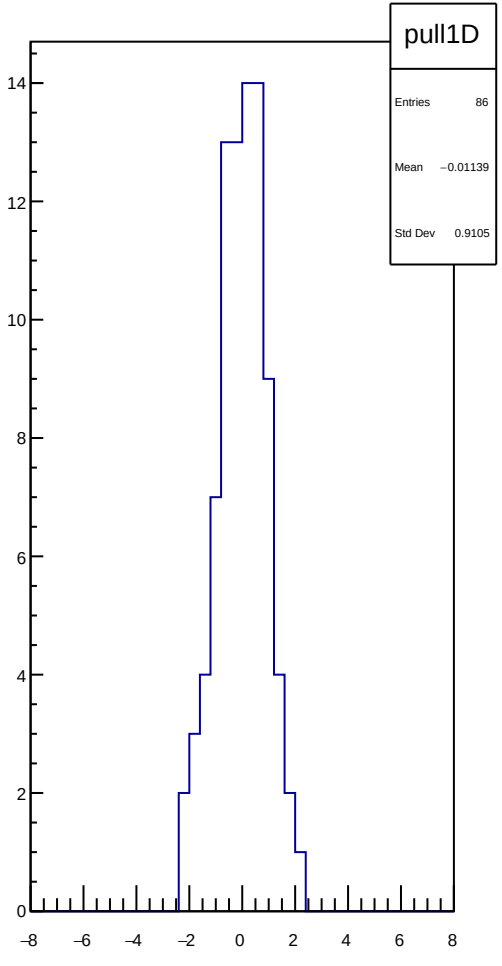

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 100 / 85
p0 1737 ± 1.338
1780
1760
1740
1720
1700
1680

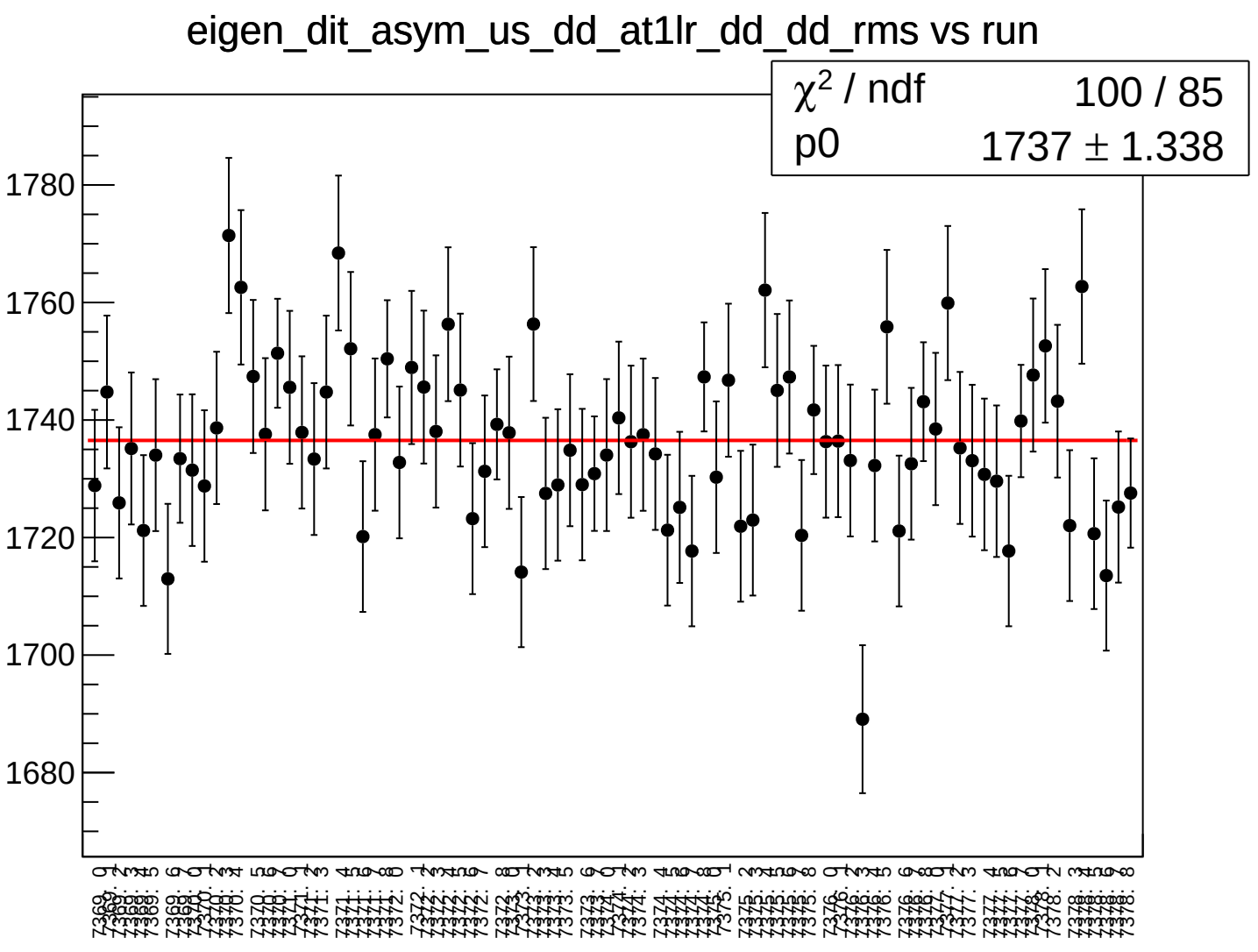

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 97.09 / 85
p0 472.4 ± 880
pull
Entries 86
Mean 65.22
Std Dev 0

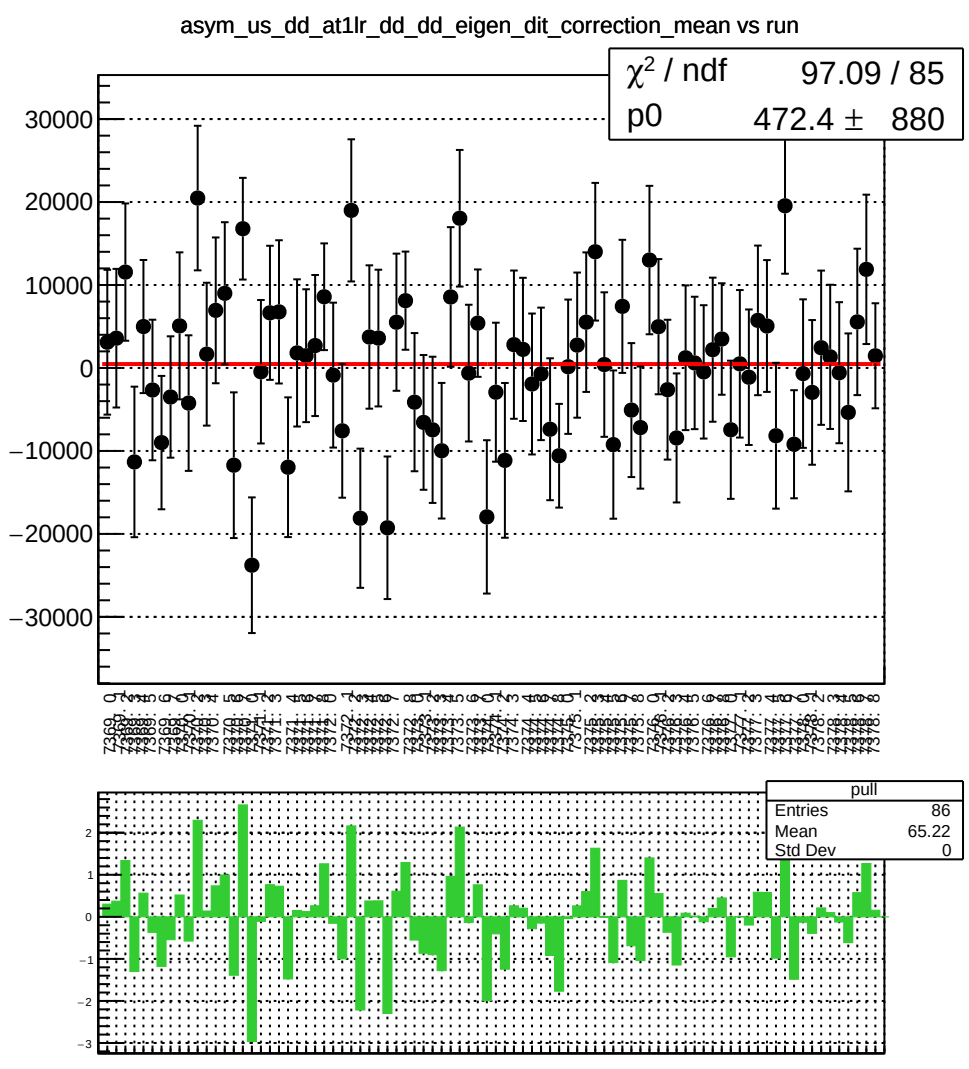

pull1D
Entries 86
Mean −0.01365
Std Dev 1.062

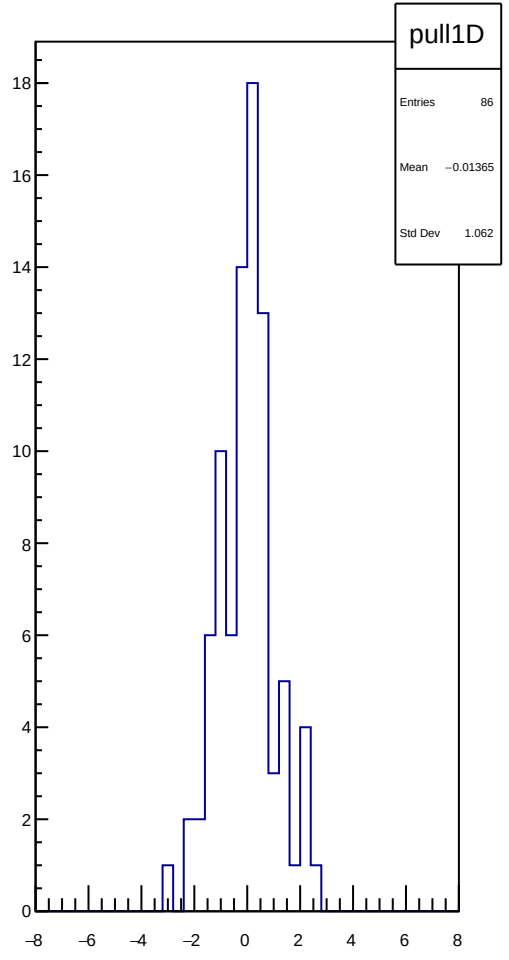

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2752 / 85
p0 806.8 ± 0.6222
920
900
880
860
840
820
800
780
760
740
720

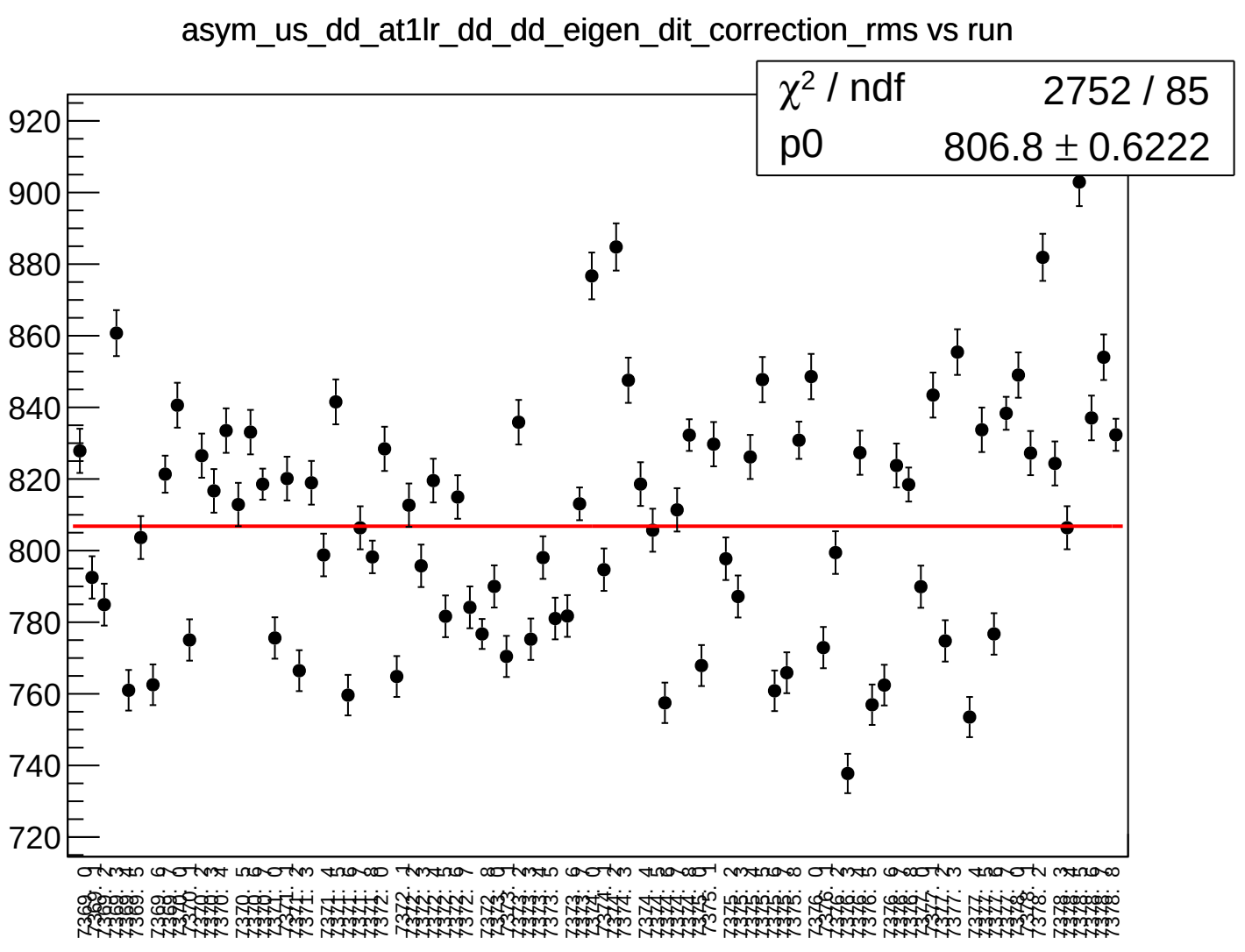

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 71.31 / 85
p0 470 ± 1892
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 282.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

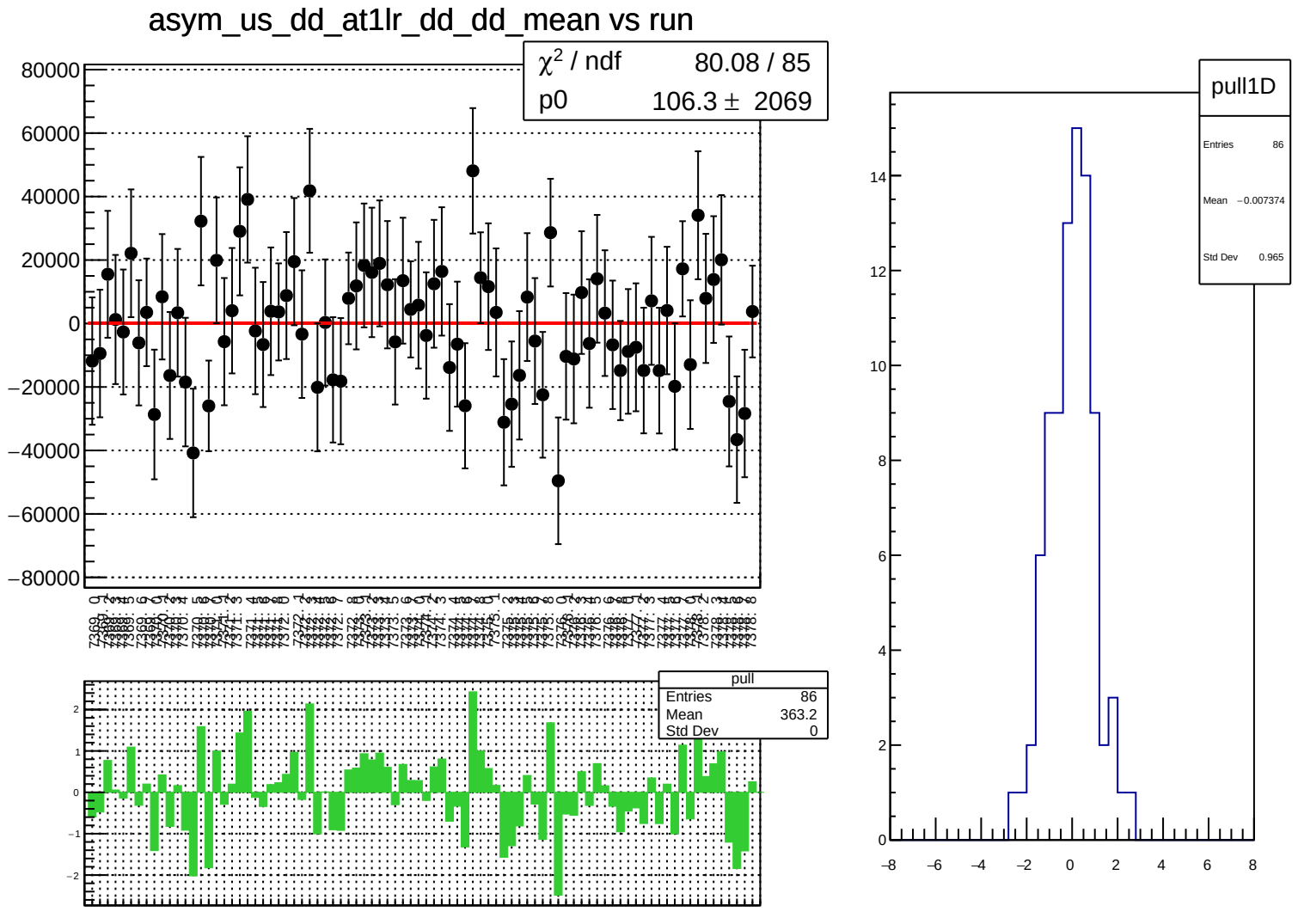

pull1D
Entries 86
Mean −0.01139
Std Dev 0.9105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

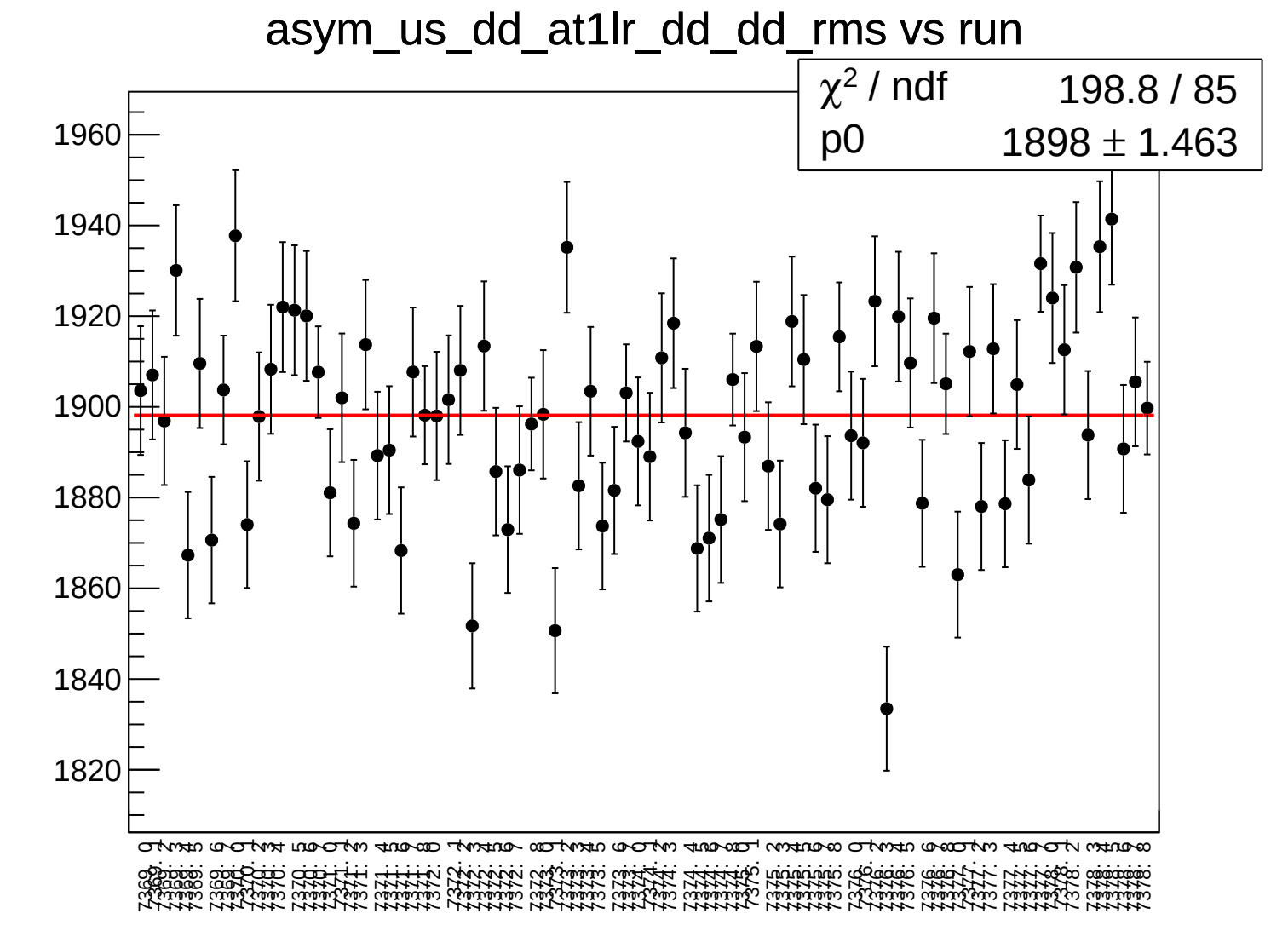

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 100 / 85
p0 1737 ± 1.338
1780
1760
1740
1720
1700
1680

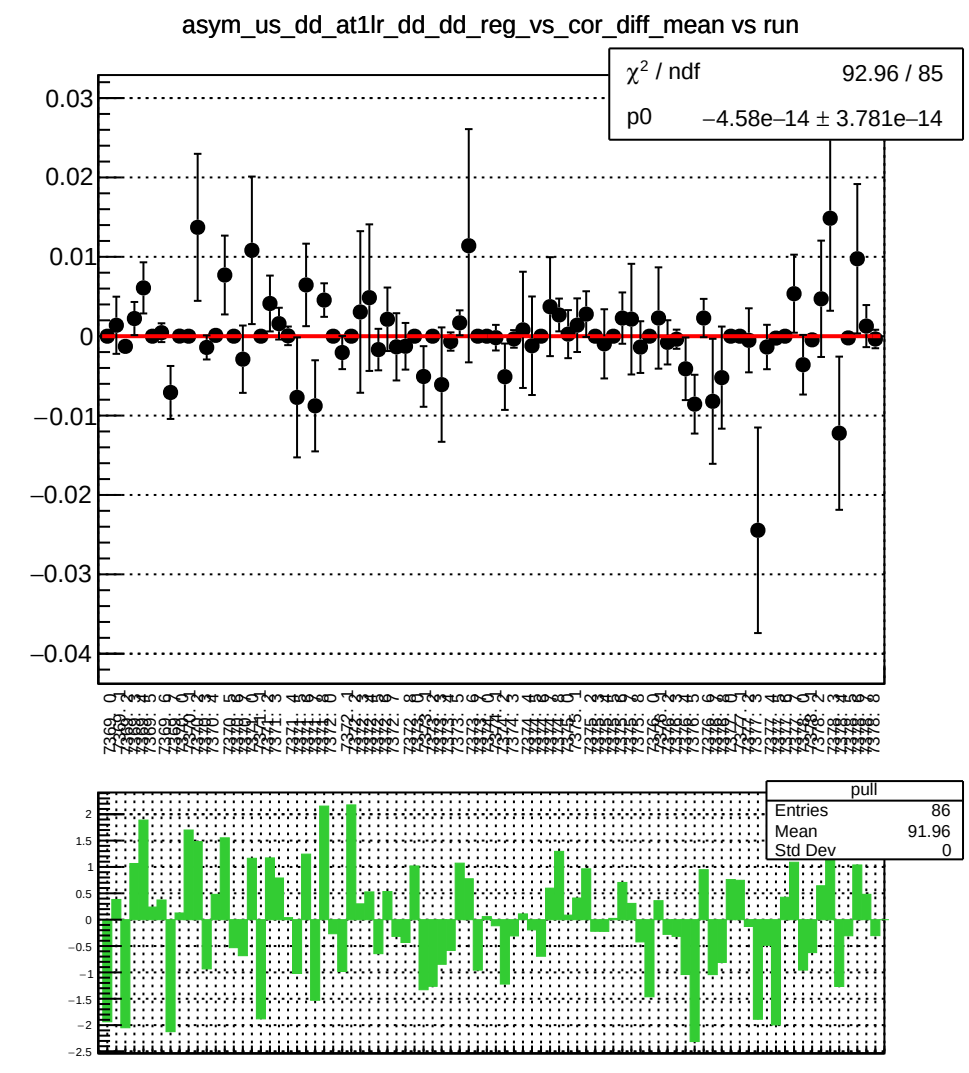

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.09 / 85
p0 472.4 ± 880
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 65.22
Std Dev 0
2
1
0
−1
−2
−3

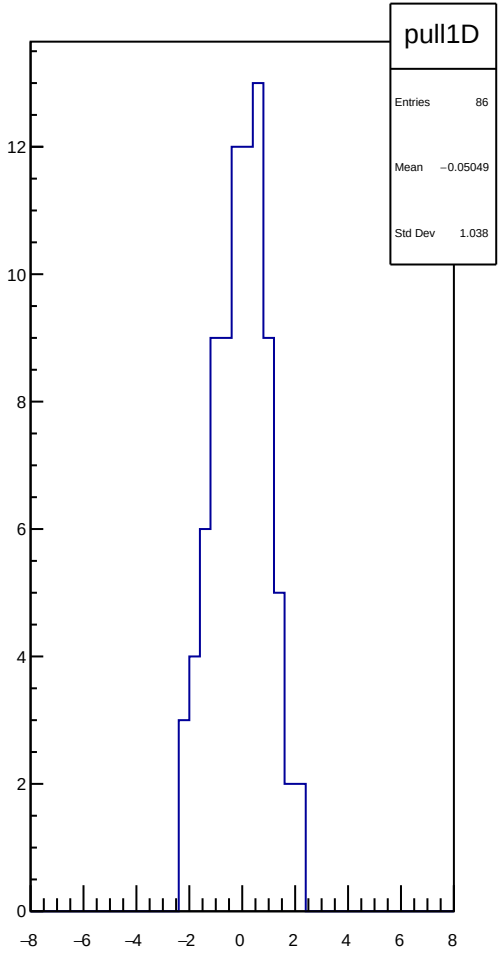

pull1D
Entries 86
Mean −0.01365
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

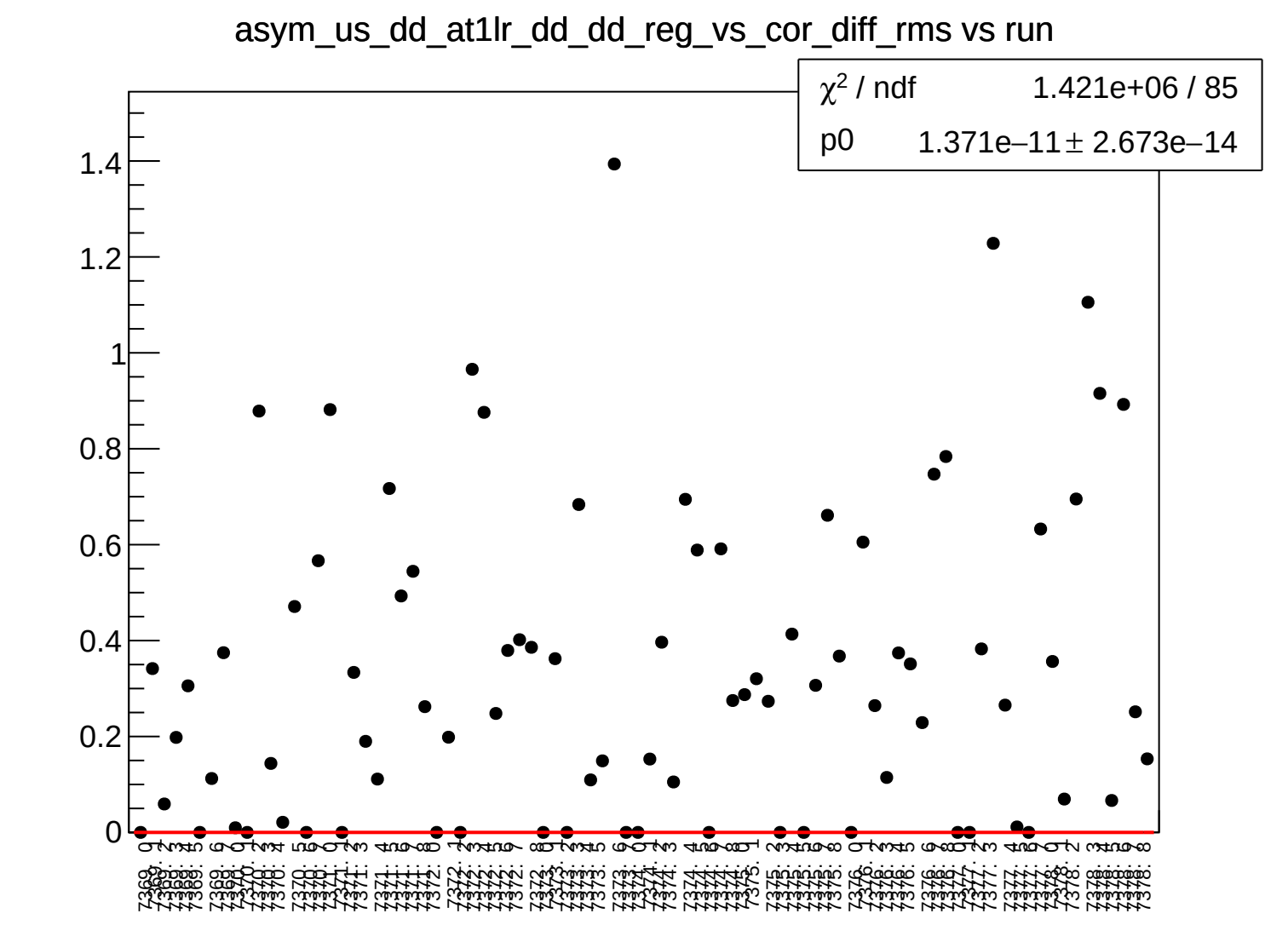

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2752 / 85
p0 806.8 ± 0.6222
920
900
880
860
840
820
800
780
760
740
720

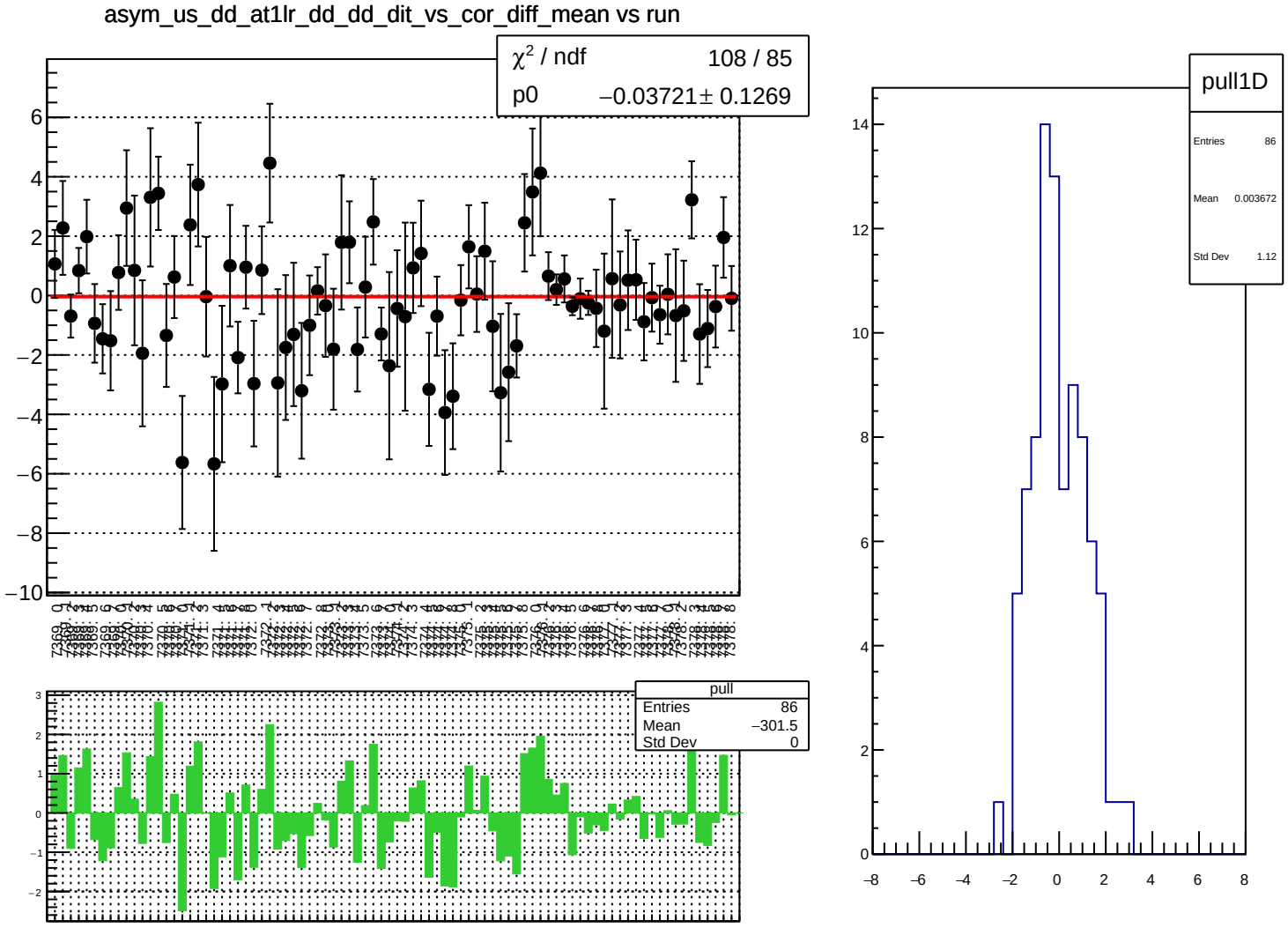

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 80.08 / 85
p0 106.3 ± 2069
pull
Entries 86
Mean 363.2
Std Dev 0
pull1D
Entries 86
Mean −0.007374
Std Dev 0.965

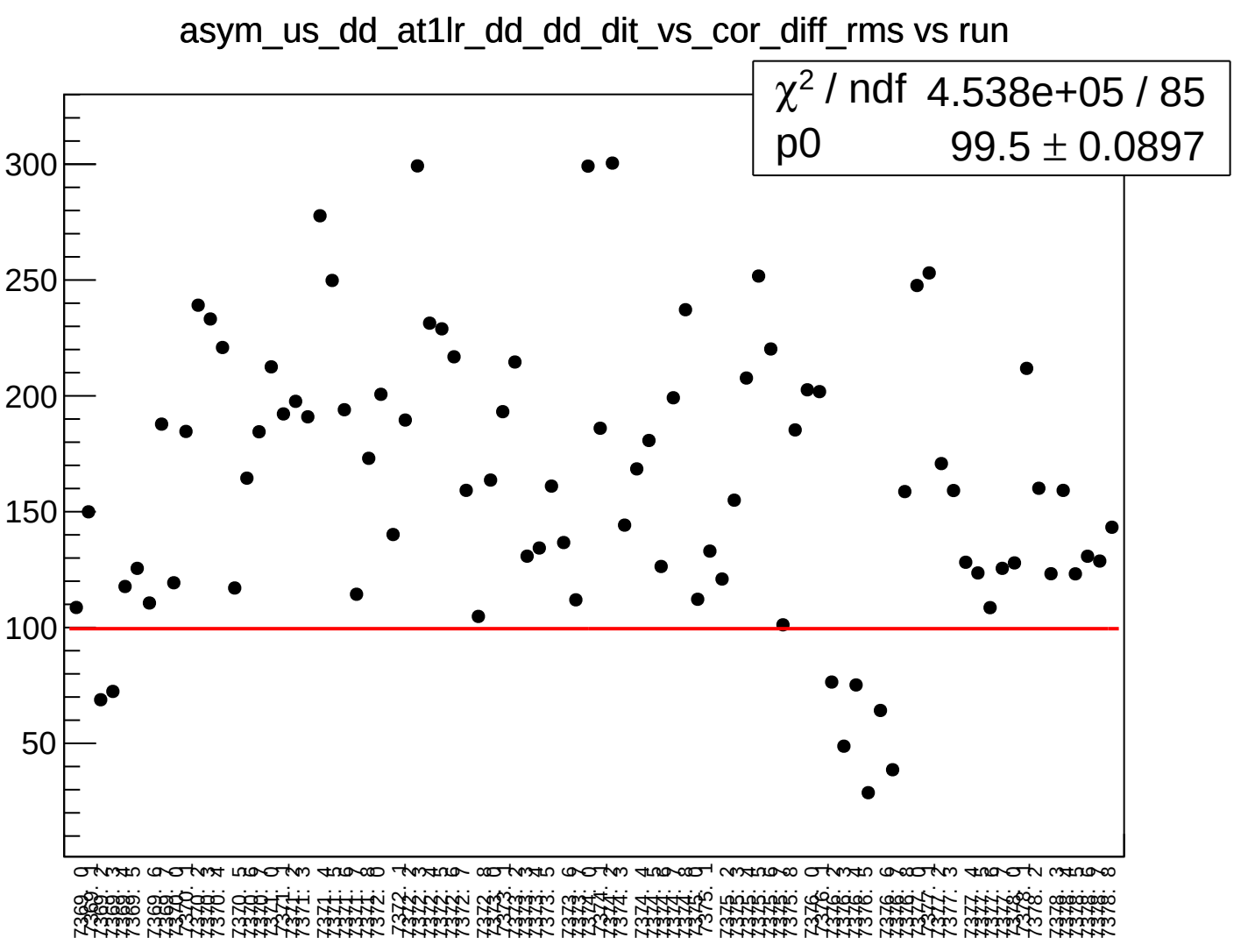

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 198.8 / 85
p0 1898 ± 1.463
1960
1940
1920
1900
1880
1860
1840
1820

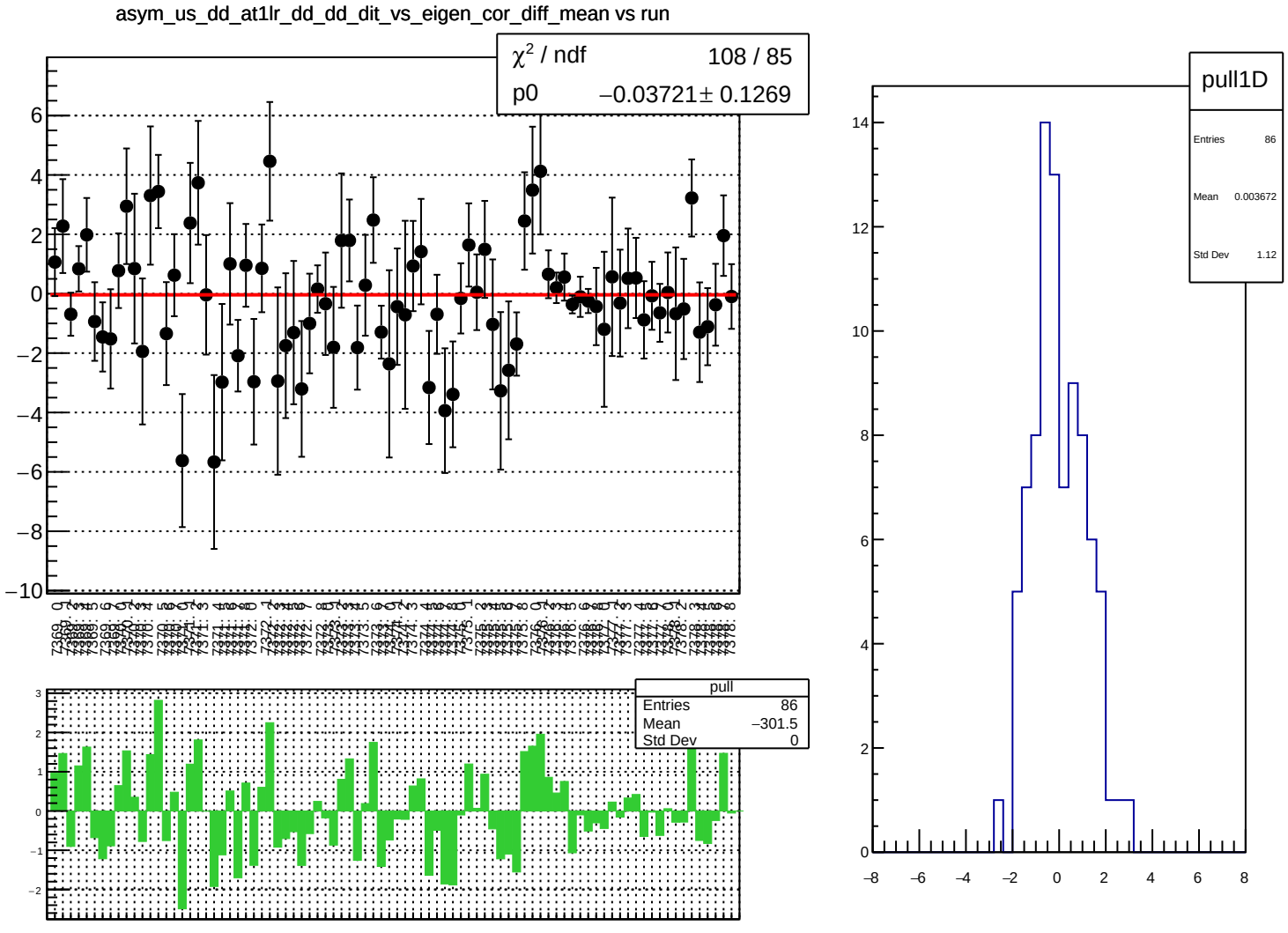

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.96 / 85
p0 −4.58e−14 ± 3.781e−14
pull
Entries 86
Mean 91.96
Std Dev 0

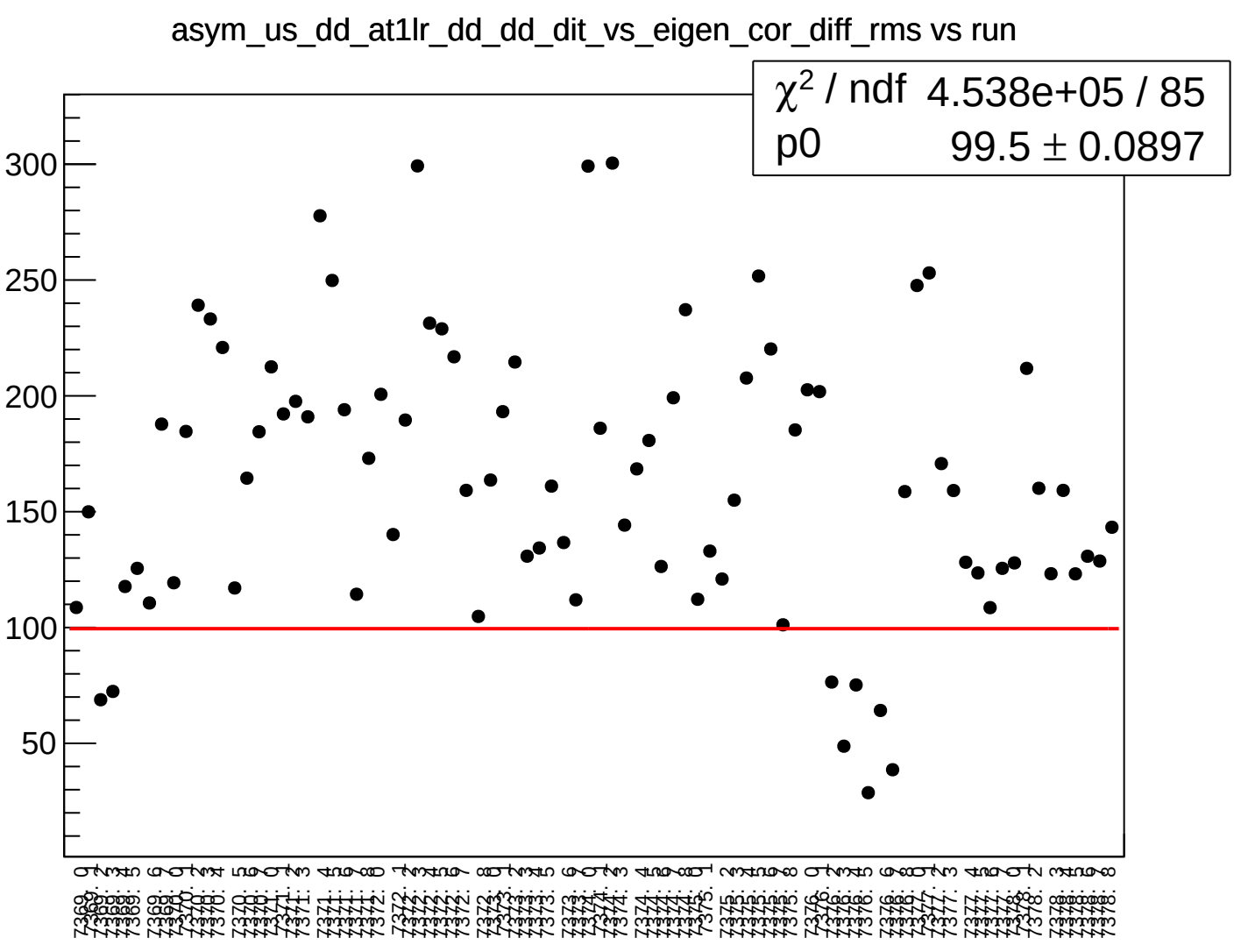

pull1D
Entries 86
Mean −0.05049
Std Dev 1.038

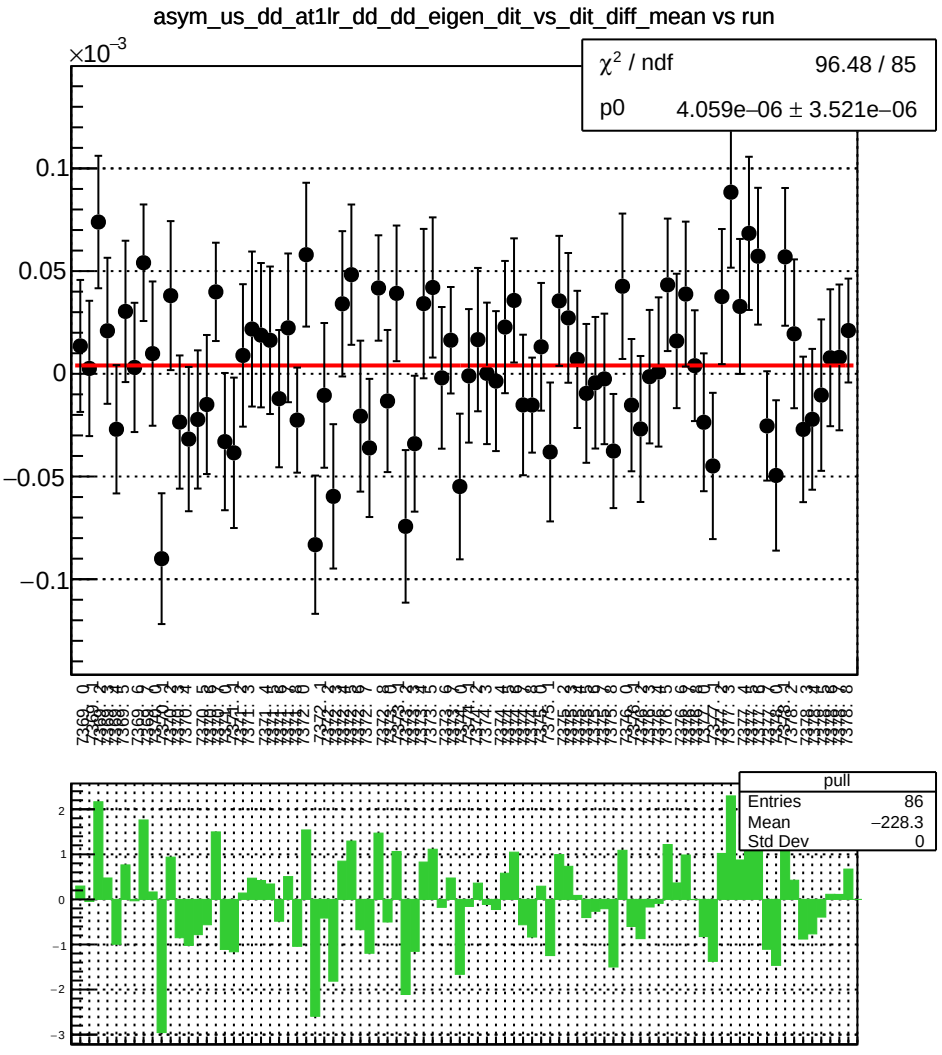

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.421e+06 / 85
p0 1.371e−11 ± 2.673e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

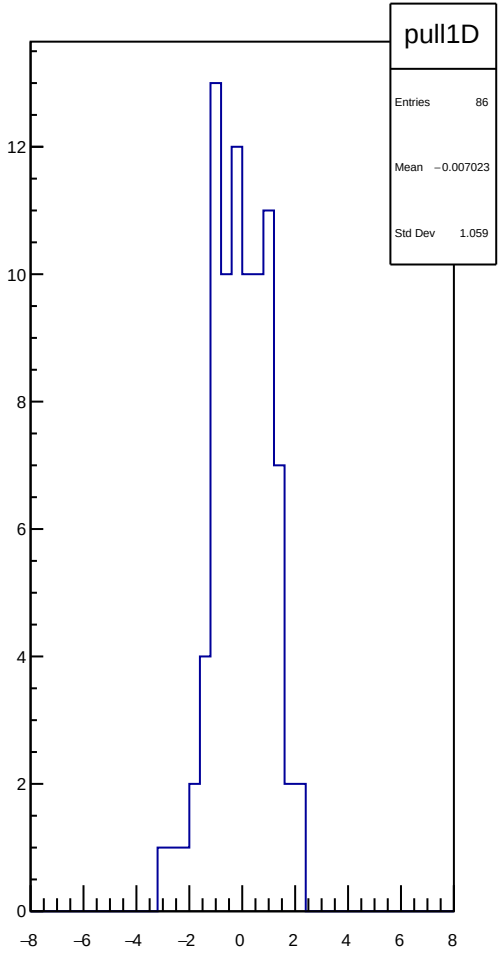

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108 / 85
p0 −0.03721 ± 0.1269
pull
Entries 86
Mean −301.5
Std Dev 0
pull1D
Entries 86
Mean 0.003672
Std Dev 1.12

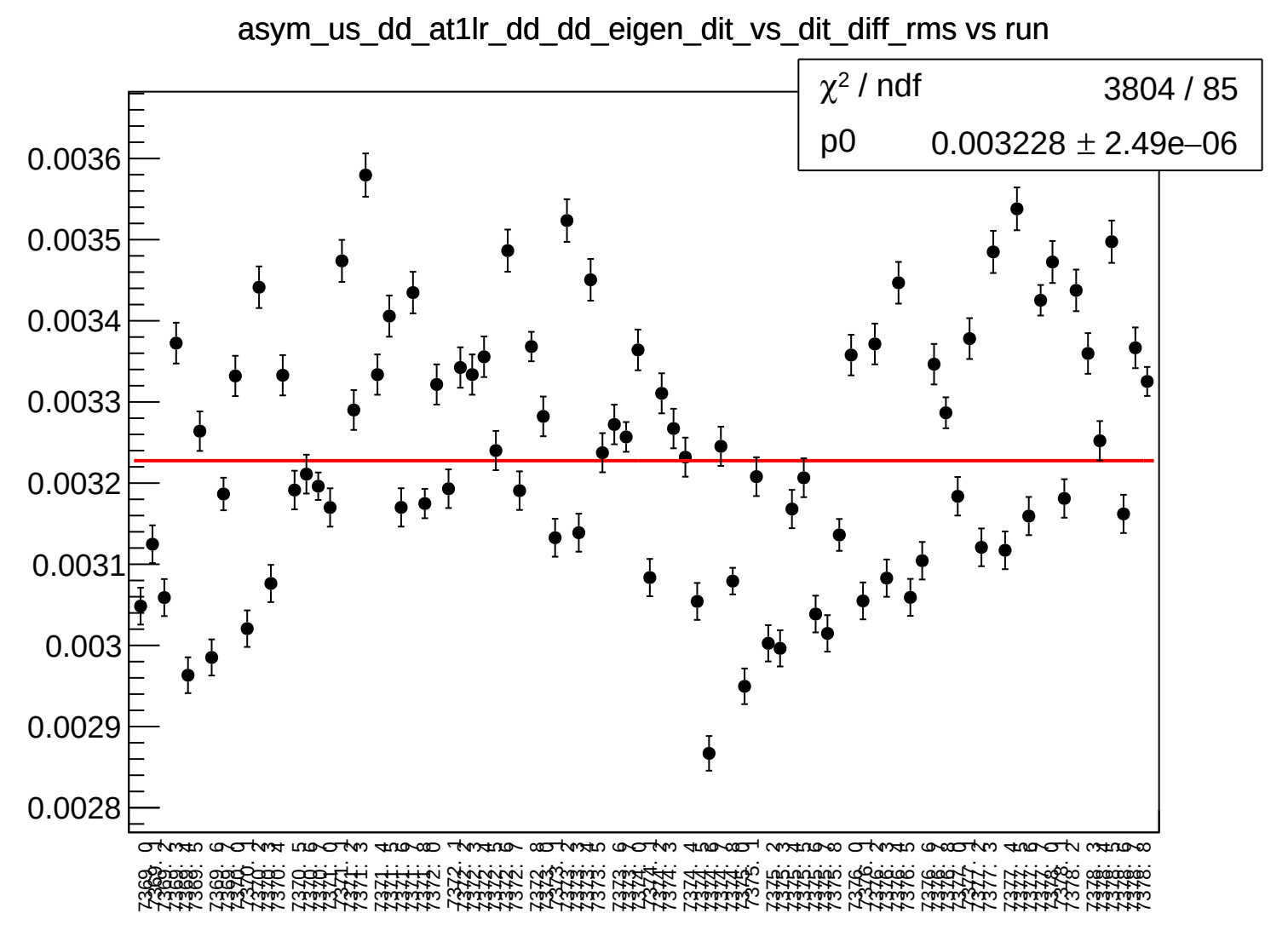

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.538e+05 / 85
p0 99.5 ± 0.0897
300
250
200
150
100
50

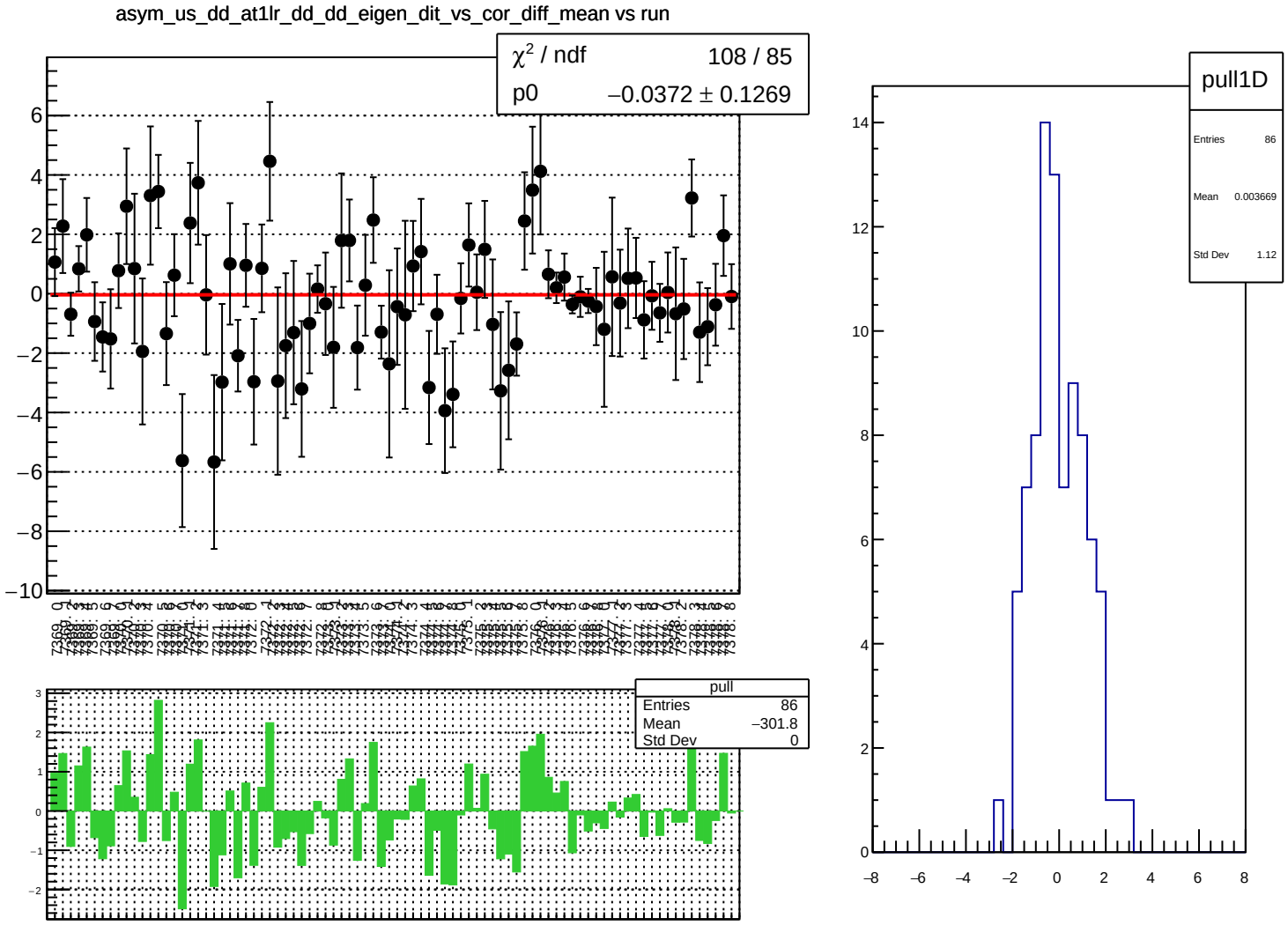

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108 / 85
p0 −0.03721 ± 0.1269
pull
Entries 86
Mean −301.5
Std Dev 0
pull1D
Entries 86
Mean 0.003672
Std Dev 1.12

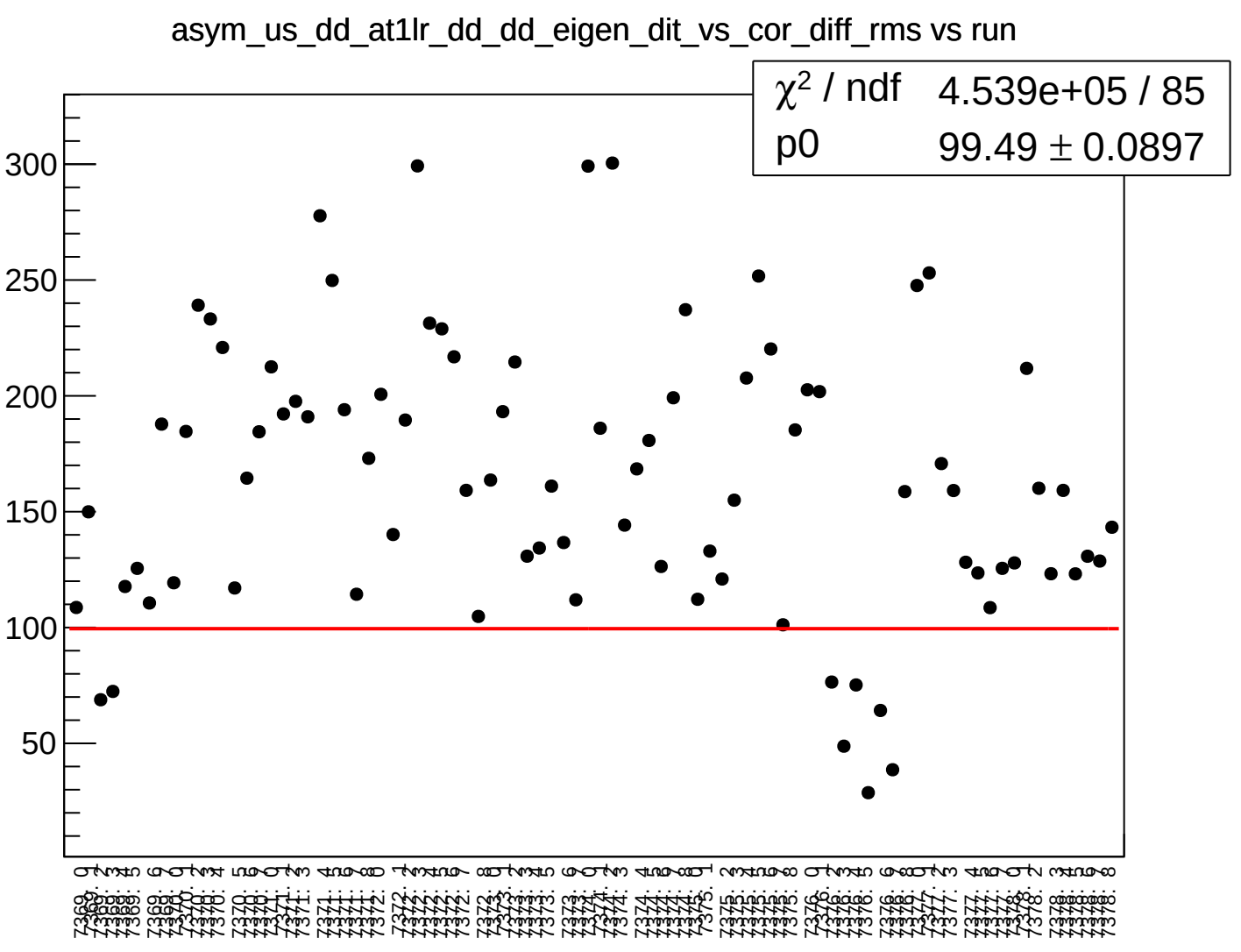

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.538e+05 / 85
p0 99.5 ± 0.0897
300
250
200
150
100
50

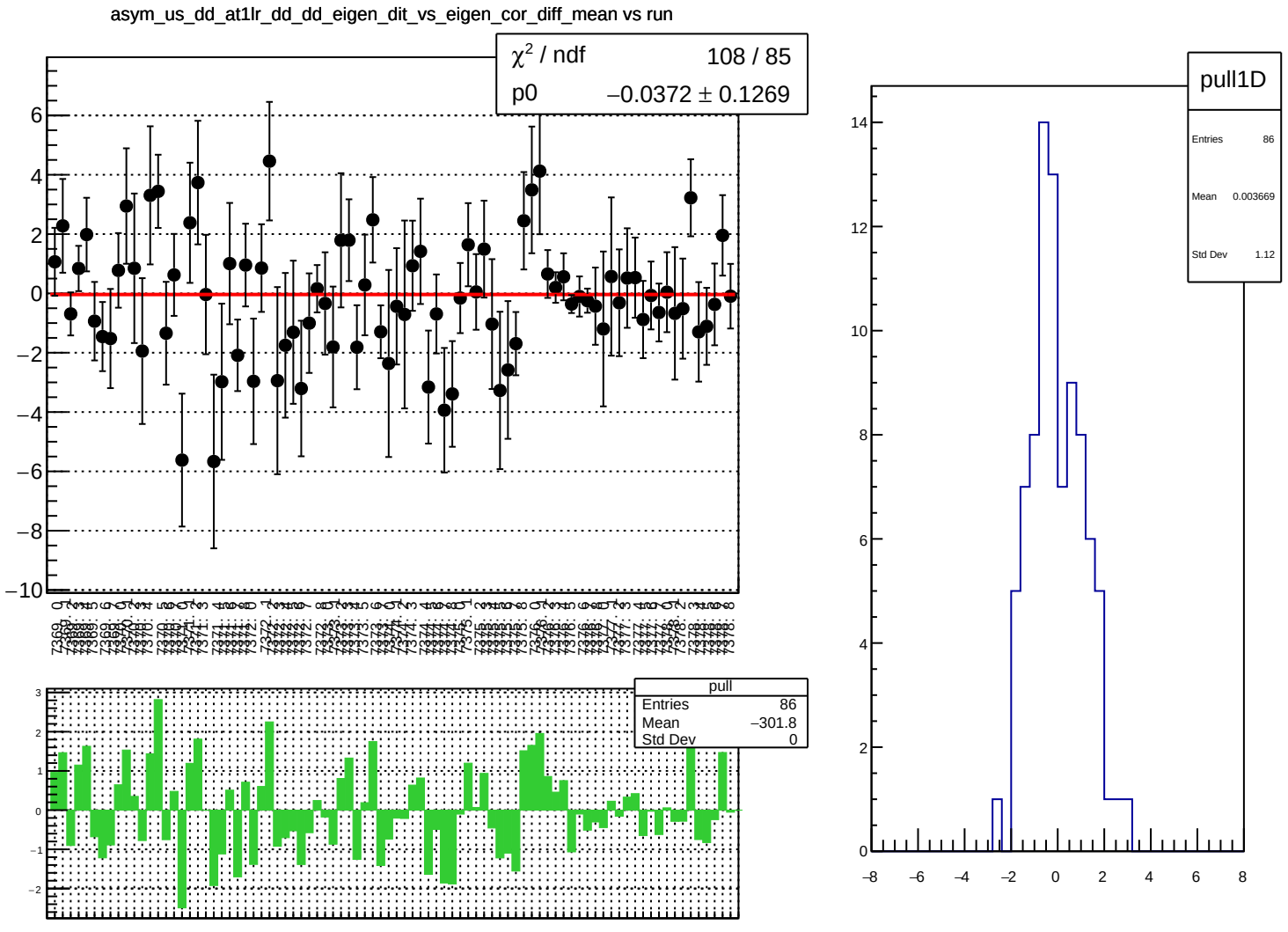

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.48 / 85
p0 4.059e−06 ± 3.521e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −228.3
Std Dev 0
2
1
0
−1
−2
−3

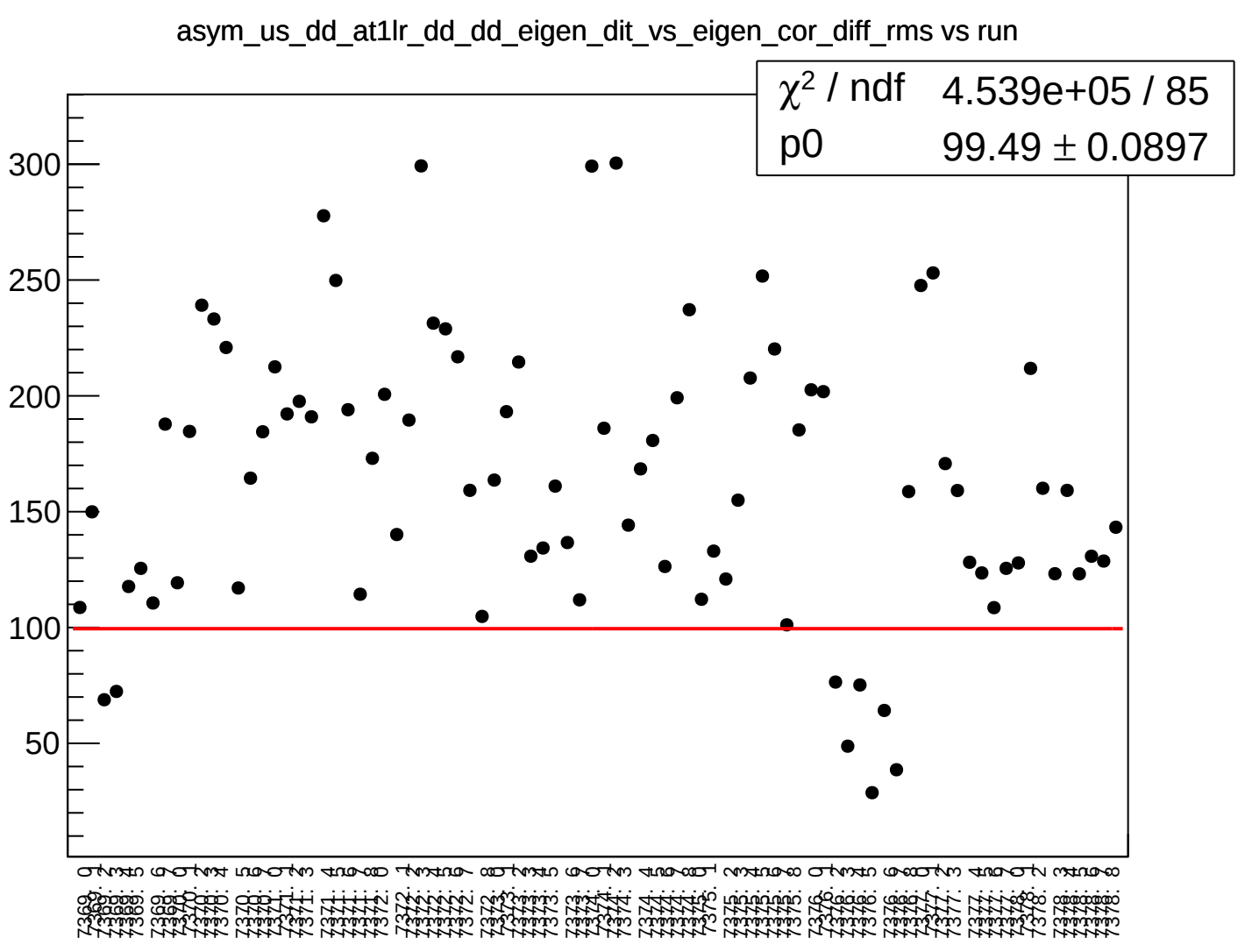

pull1D
Entries 86
Mean −0.007023
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

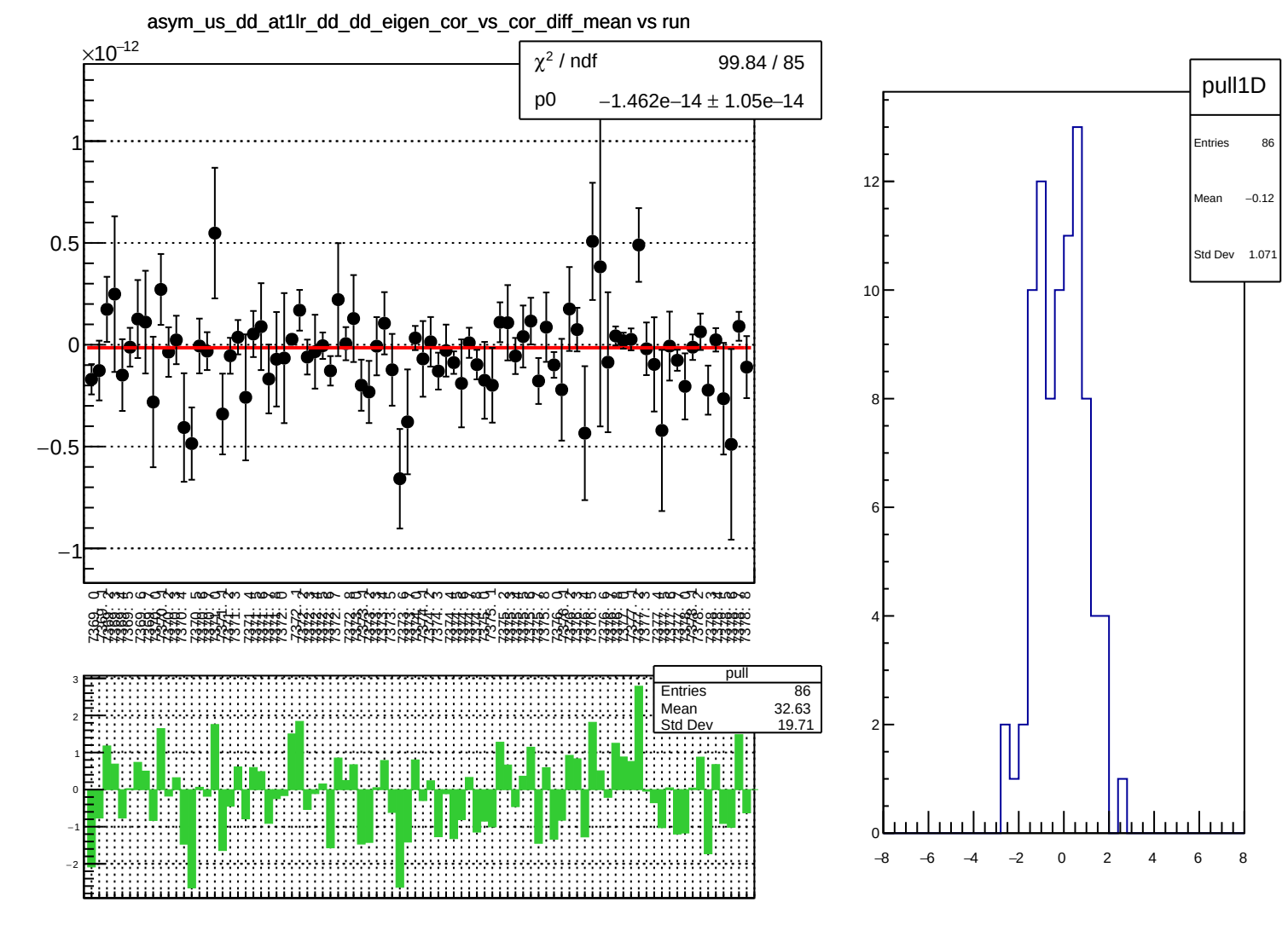

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3804 / 85
p0 0.003228 ± 2.49e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028

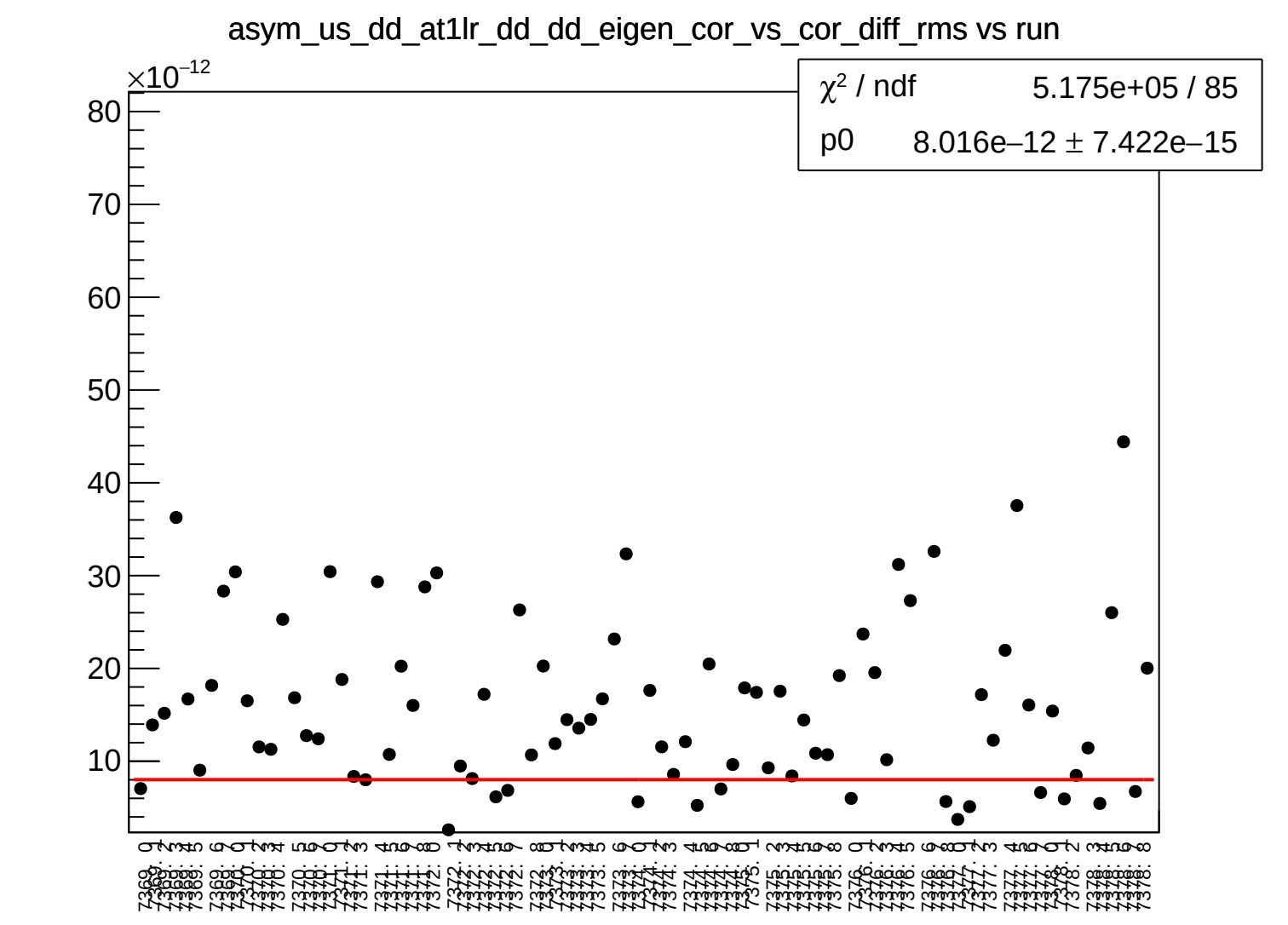

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108 / 85
p0 −0.0372 ± 0.1269
pull
Entries 86
Mean −301.8
Std Dev 0
pull1D
Entries 86
Mean 0.003669
Std Dev 1.12

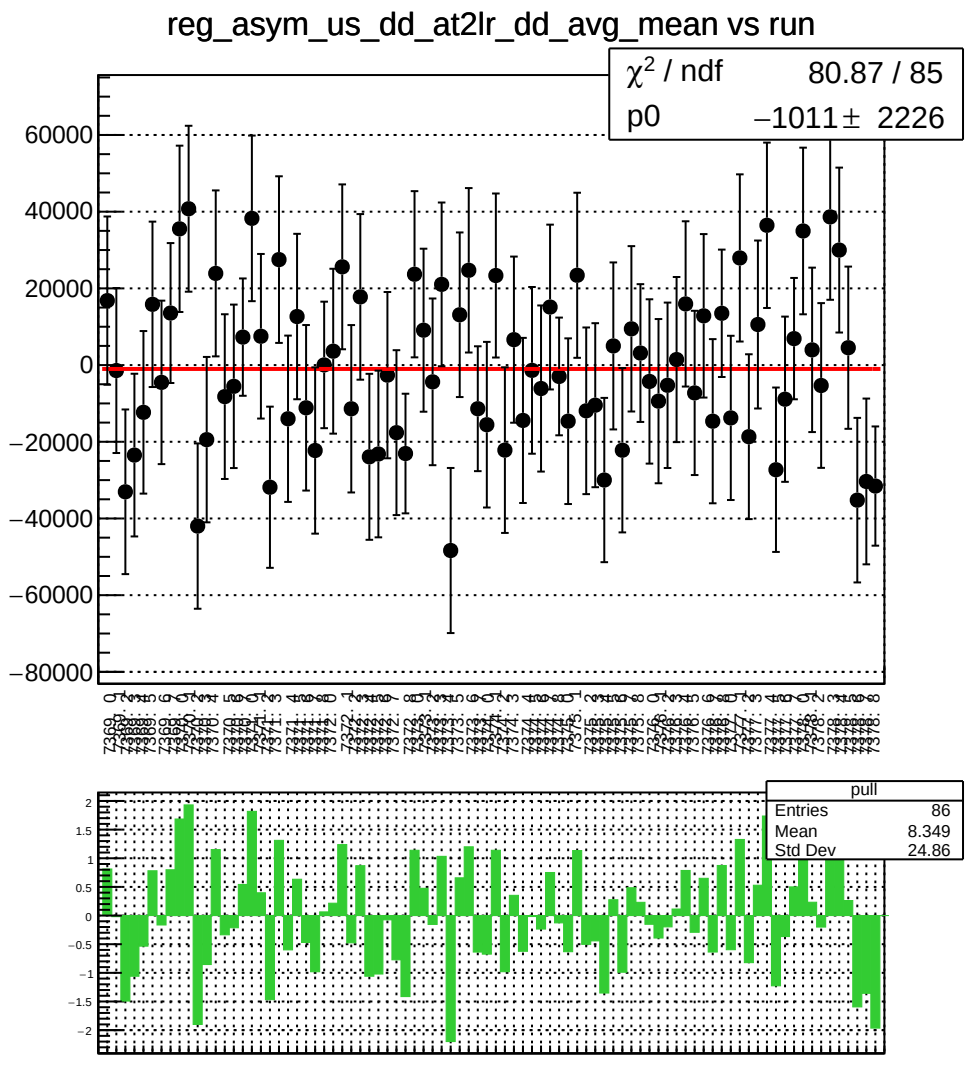

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.539e+05 / 85
p0 99.49 ± 0.0897
300
250
200
150
100
50

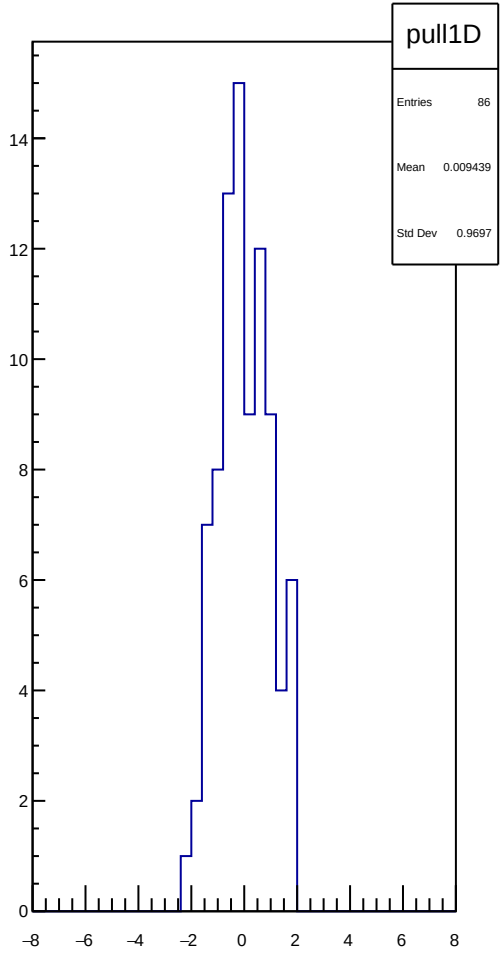

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108 / 85
p0 −0.0372 ± 0.1269
pull
Entries 86
Mean −301.8
Std Dev 0
pull1D
Entries 86
Mean 0.003669
Std Dev 1.12

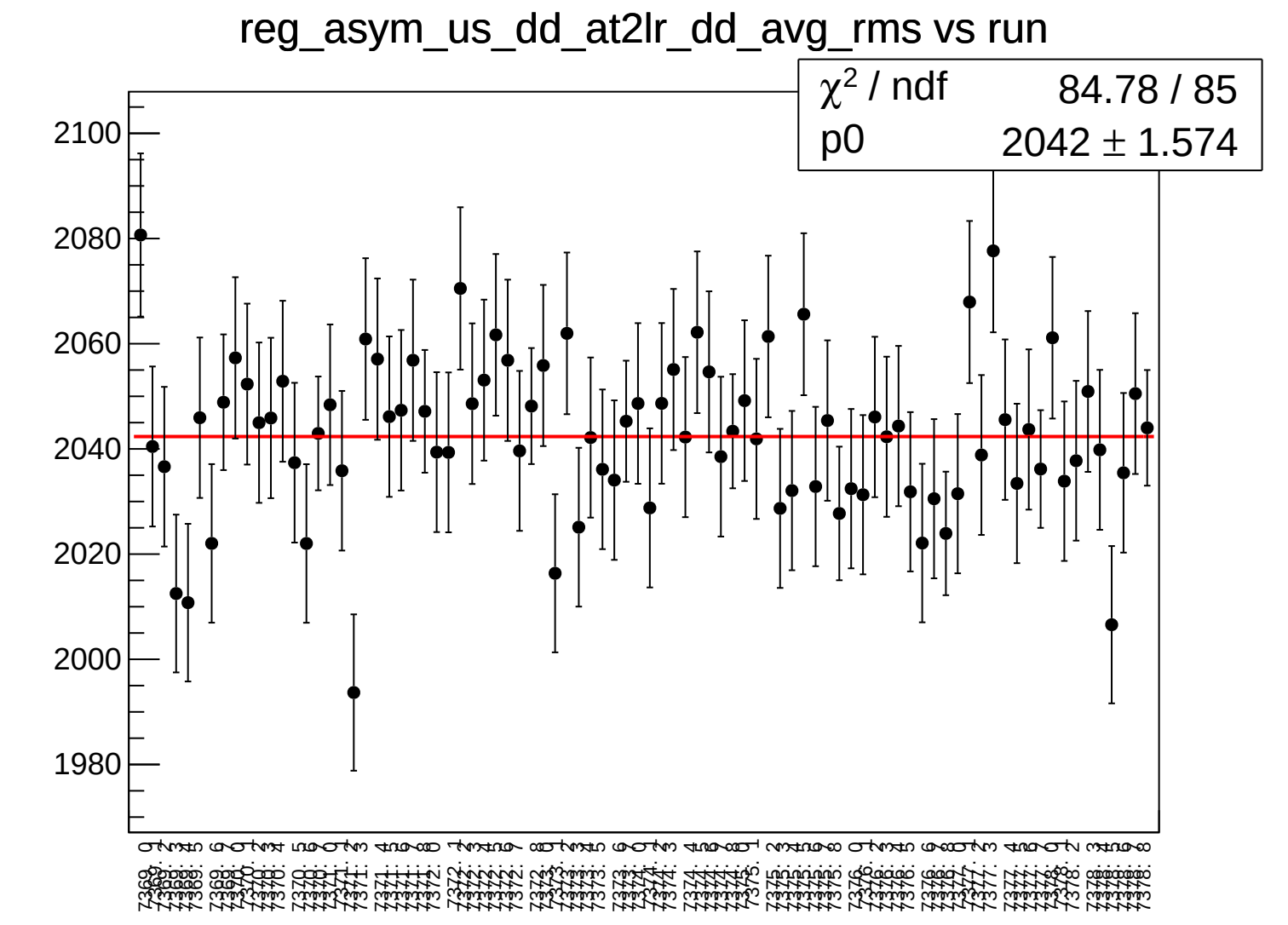

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.539e+05 / 85
p0 99.49 ± 0.0897
300
250
200
150
100
50

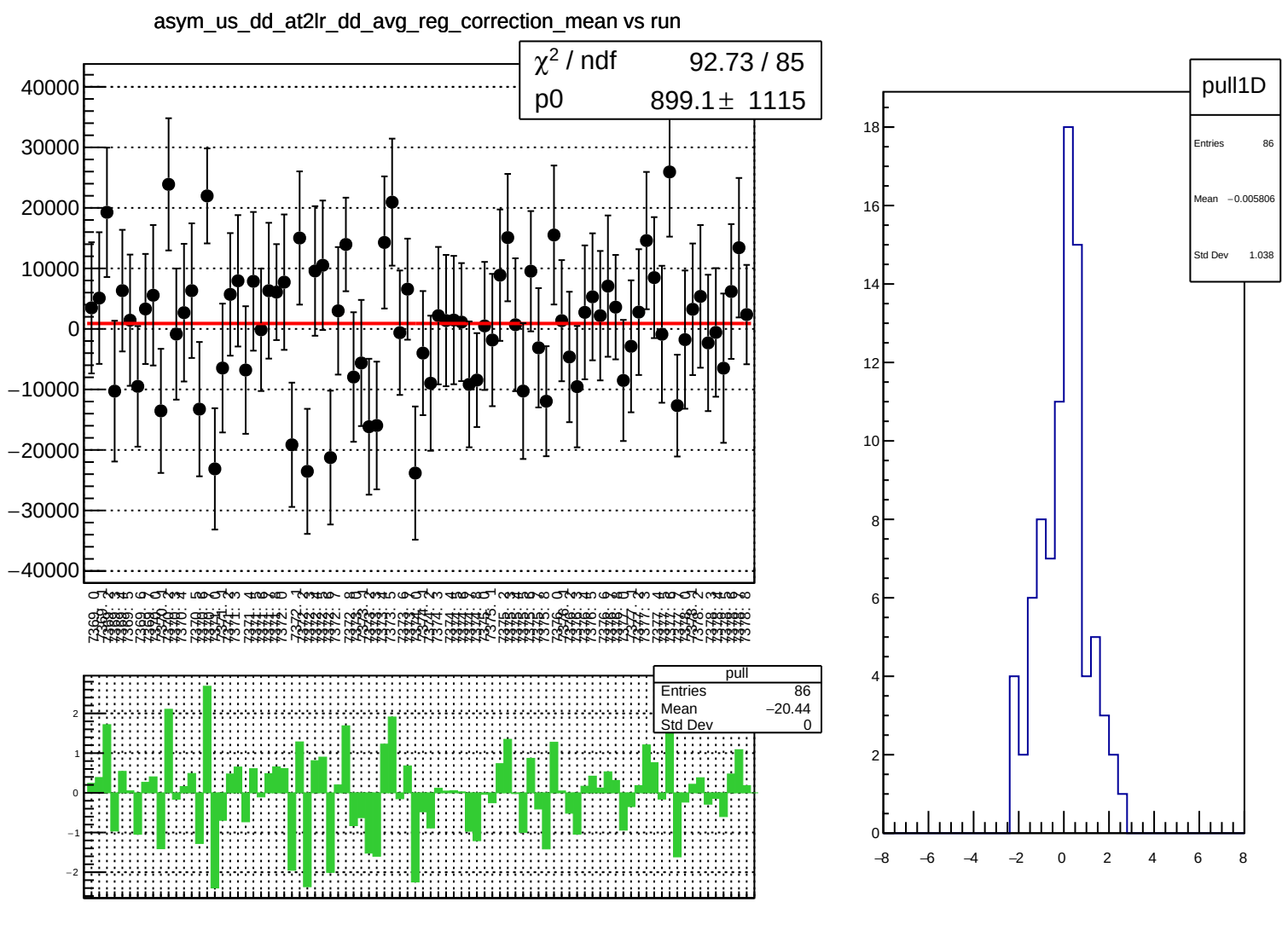

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.84 / 85
p0 −1.462e−14 ± 1.05e−14
pull
Entries 86
Mean 32.63
Std Dev 19.71
pull1D
Entries 86
Mean −0.12
Std Dev 1.071

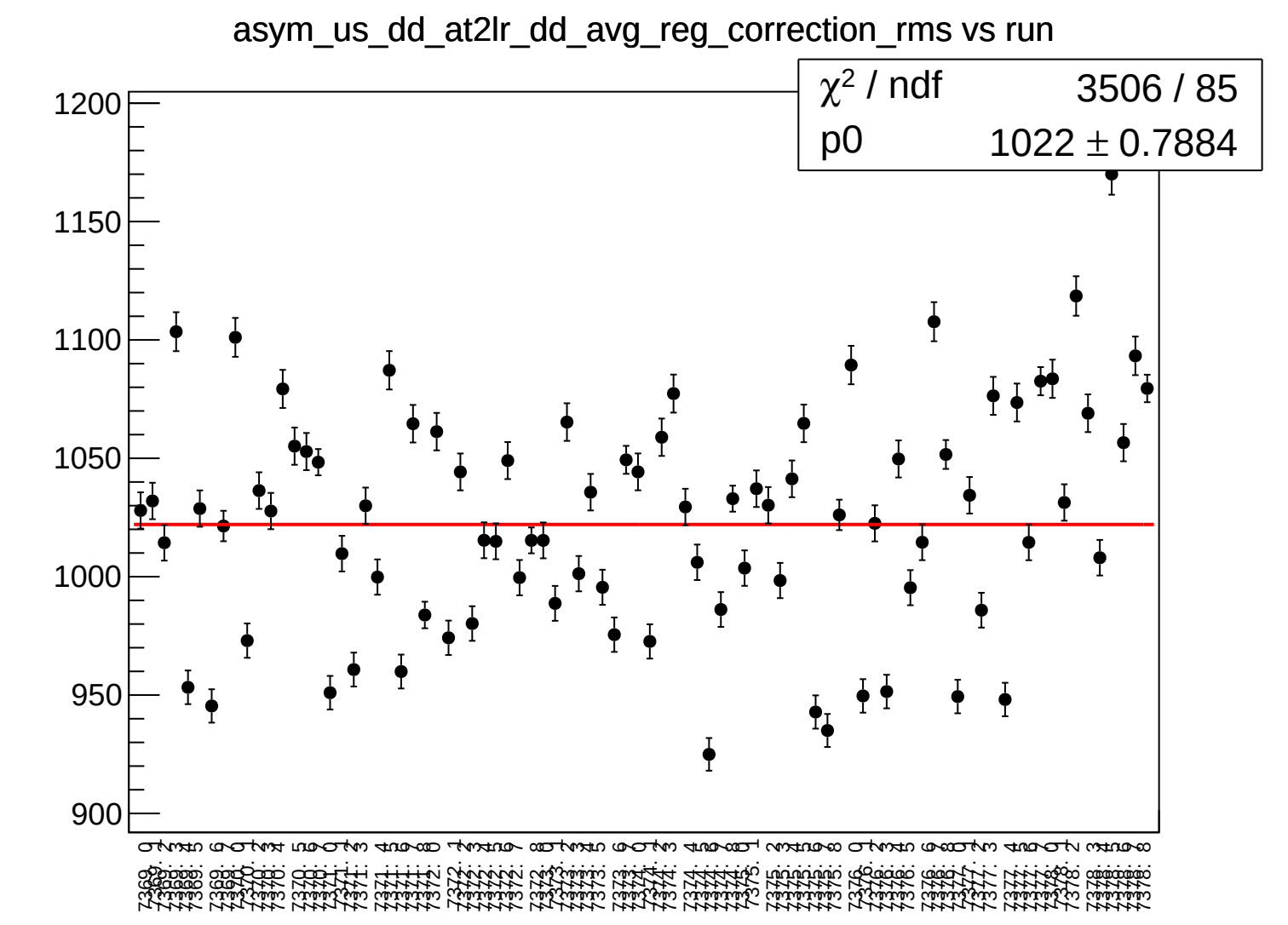

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.175e+05 / 85
p0 8.016e−12 ± 7.422e−15
80
70
60
50
40
30
20
10

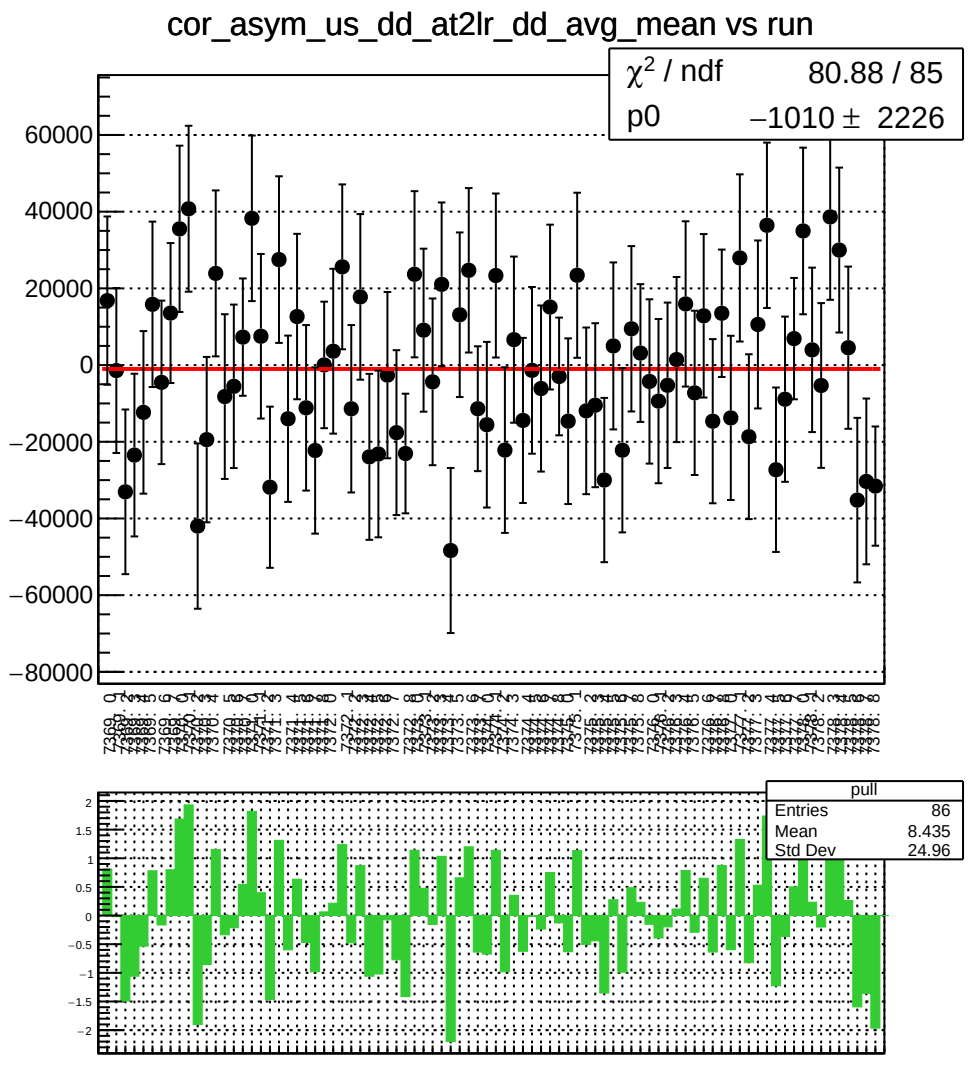

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 80.87 / 85
p0 −1011 ± 2226
pull
Entries 86
Mean 8.349
Std Dev 24.86

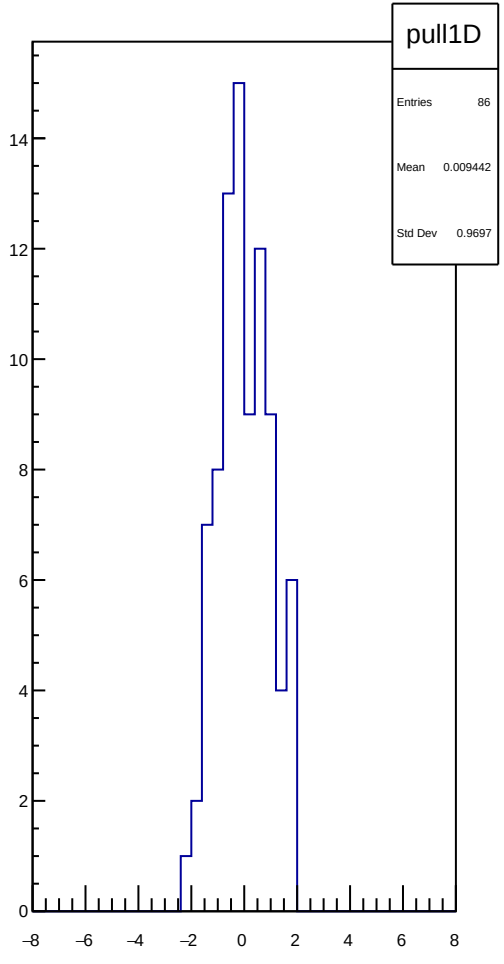

pull1D
Entries 86
Mean 0.009439
Std Dev 0.9697

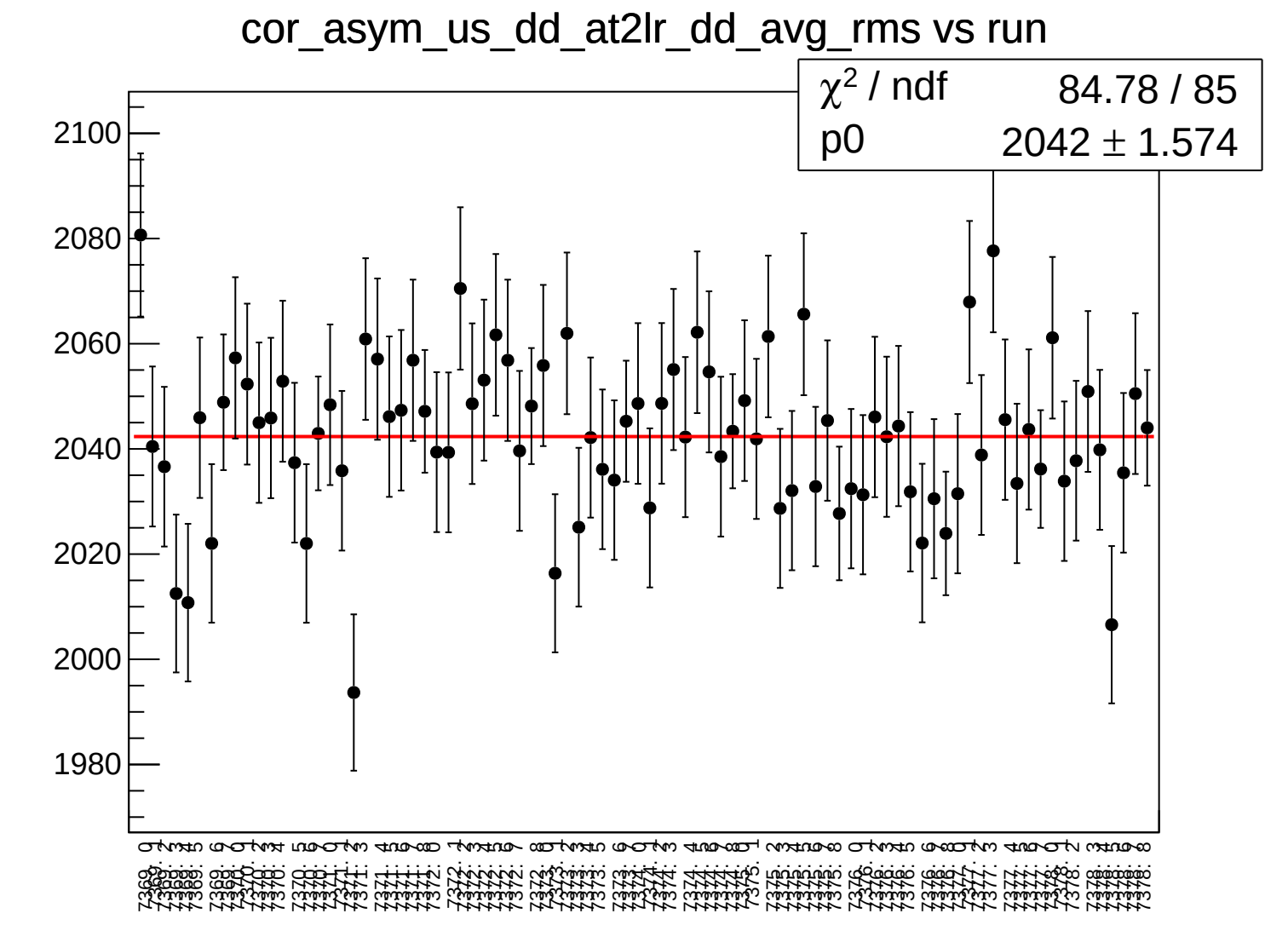

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 84.78 / 85
p0 2042 ± 1.574
2100
2080
2060
2040
2020
2000
1980

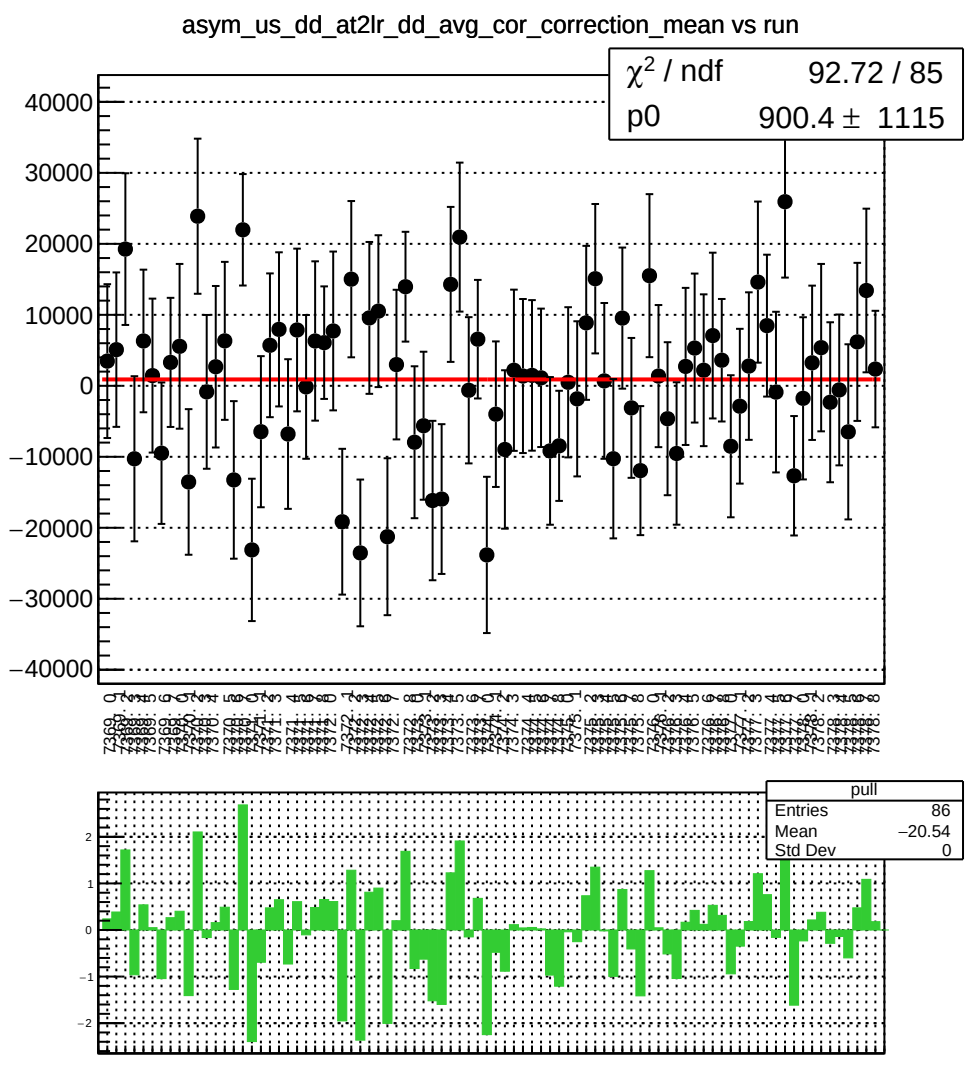

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 92.73 / 85
p0 899.1 ± 1115
pull
Entries 86
Mean −20.44
Std Dev 0
pull1D
Entries 86
Mean −0.005806
Std Dev 1.038

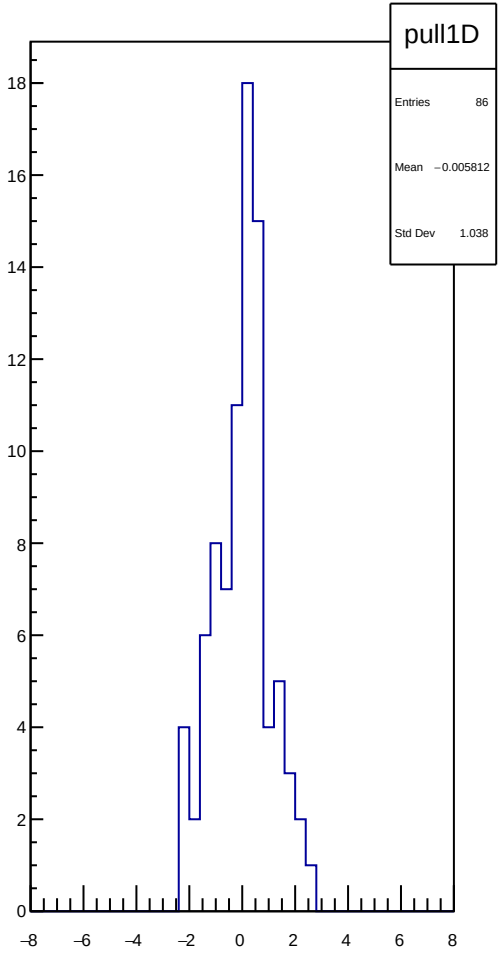

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3506 / 85
p0 1022 ± 0.7884
1200
1150
1100
1050
1000
950
900

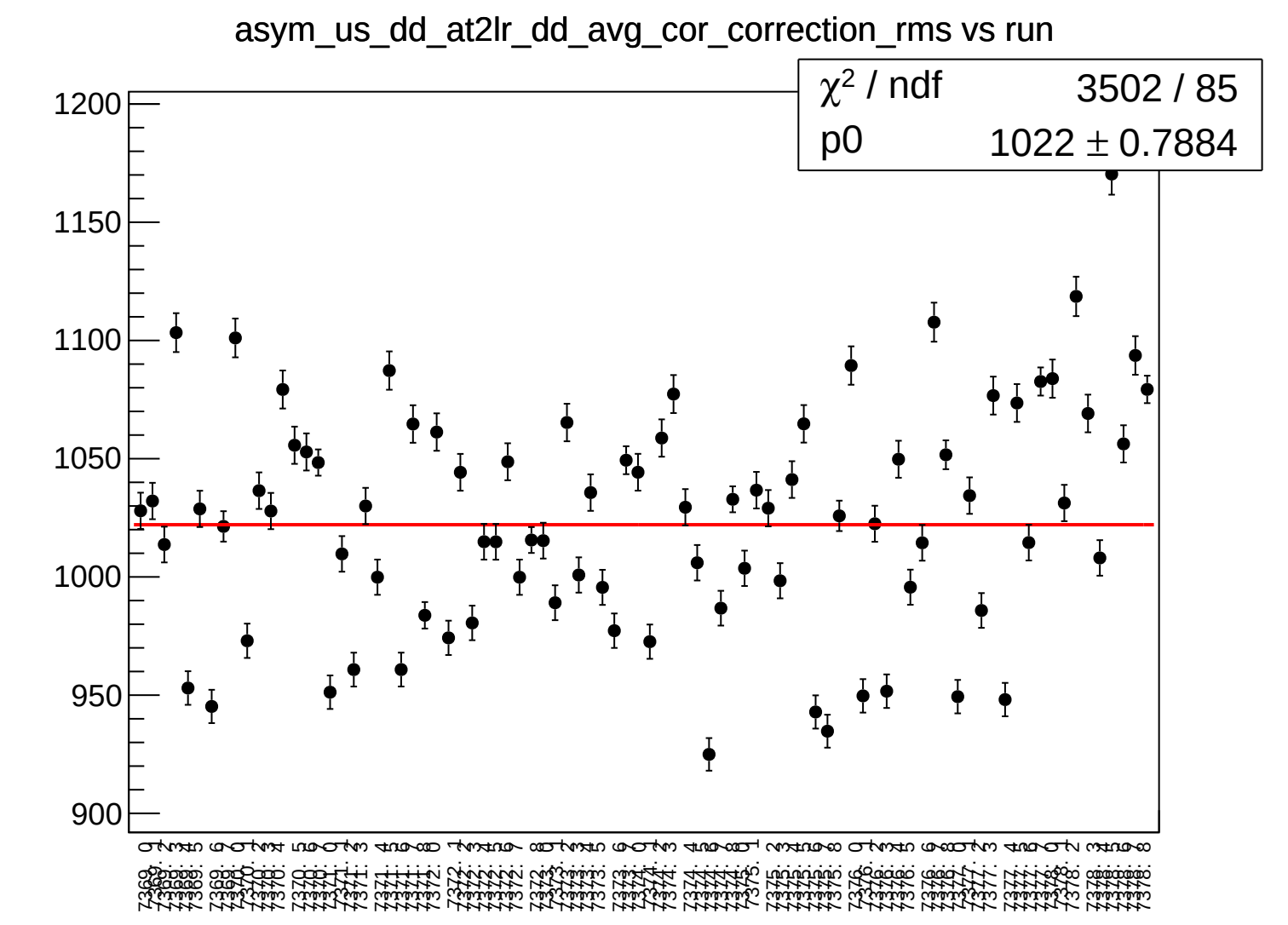

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 80.88 / 85
p0 −1010 ± 2226
pull
Entries 86
Mean 8.435
Std Dev 24.96

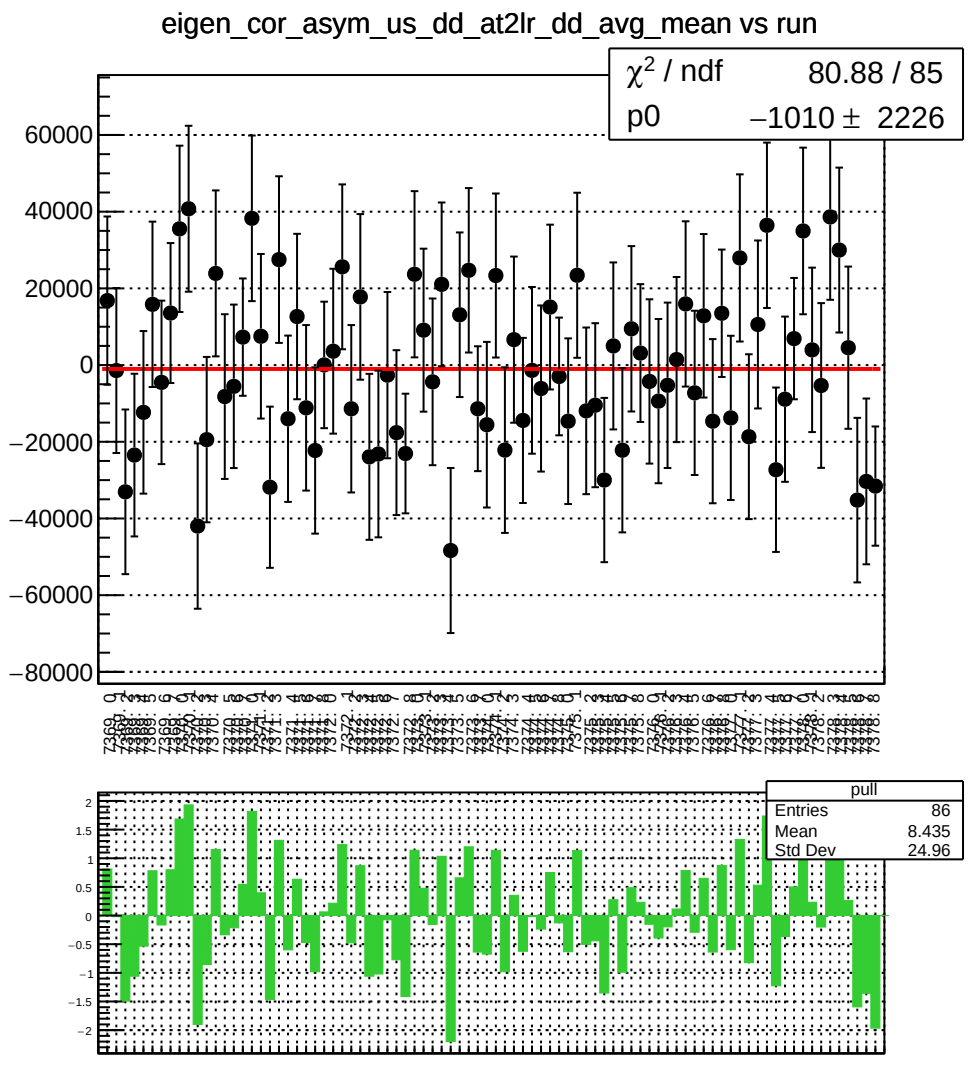

pull1D
Entries 86
Mean 0.009442
Std Dev 0.9697

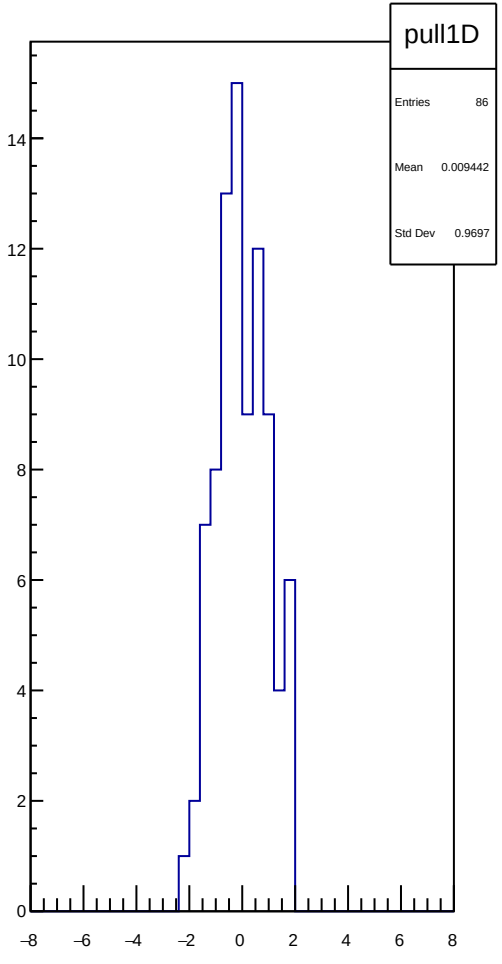

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 84.78 / 85
p0 2042 ± 1.574
2100
2080
2060
2040
2020
2000
1980

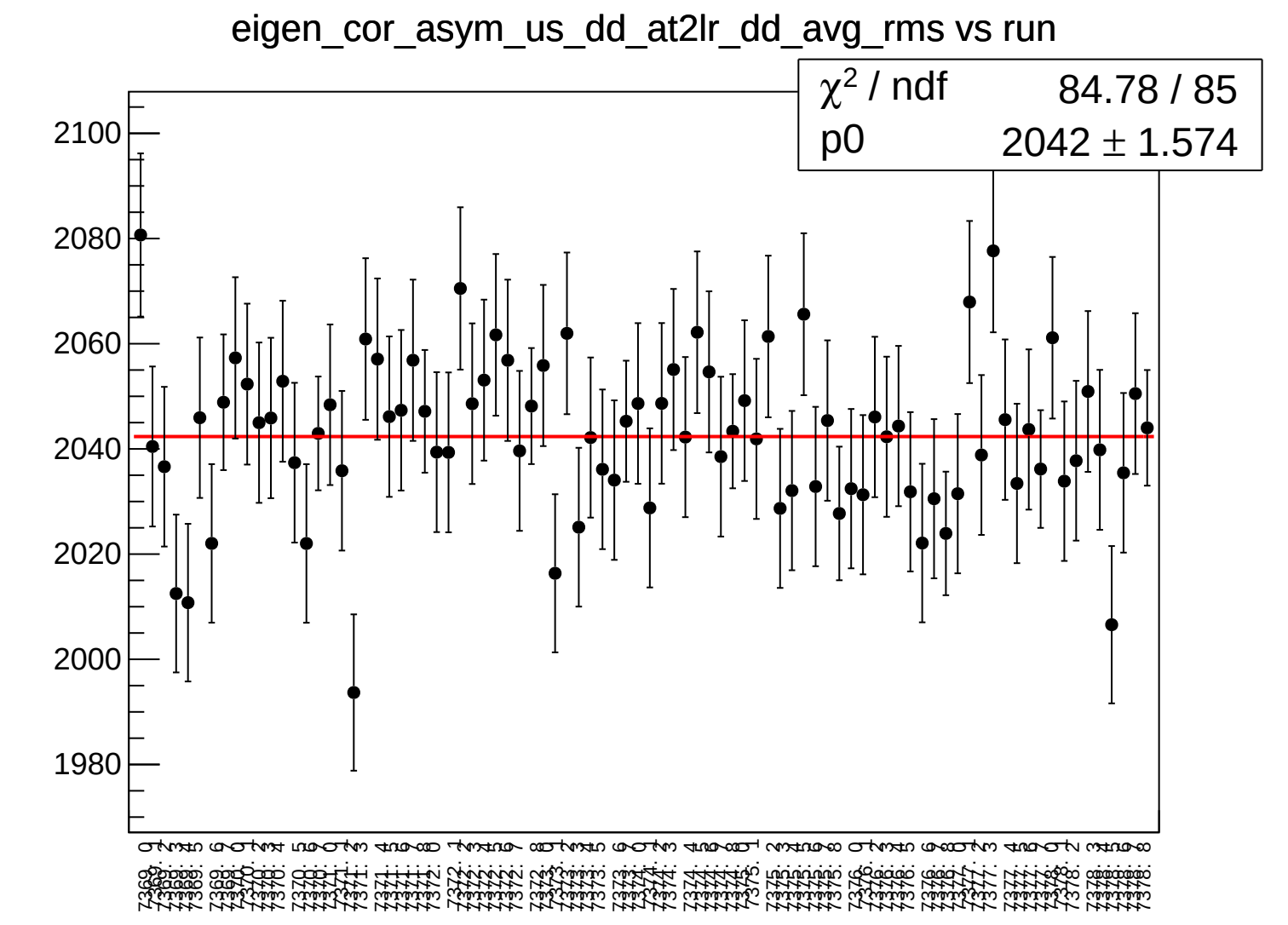

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 92.72 / 85
p0 900.4 ± 1115
pull
Entries 86
Mean −20.54
Std Dev 0

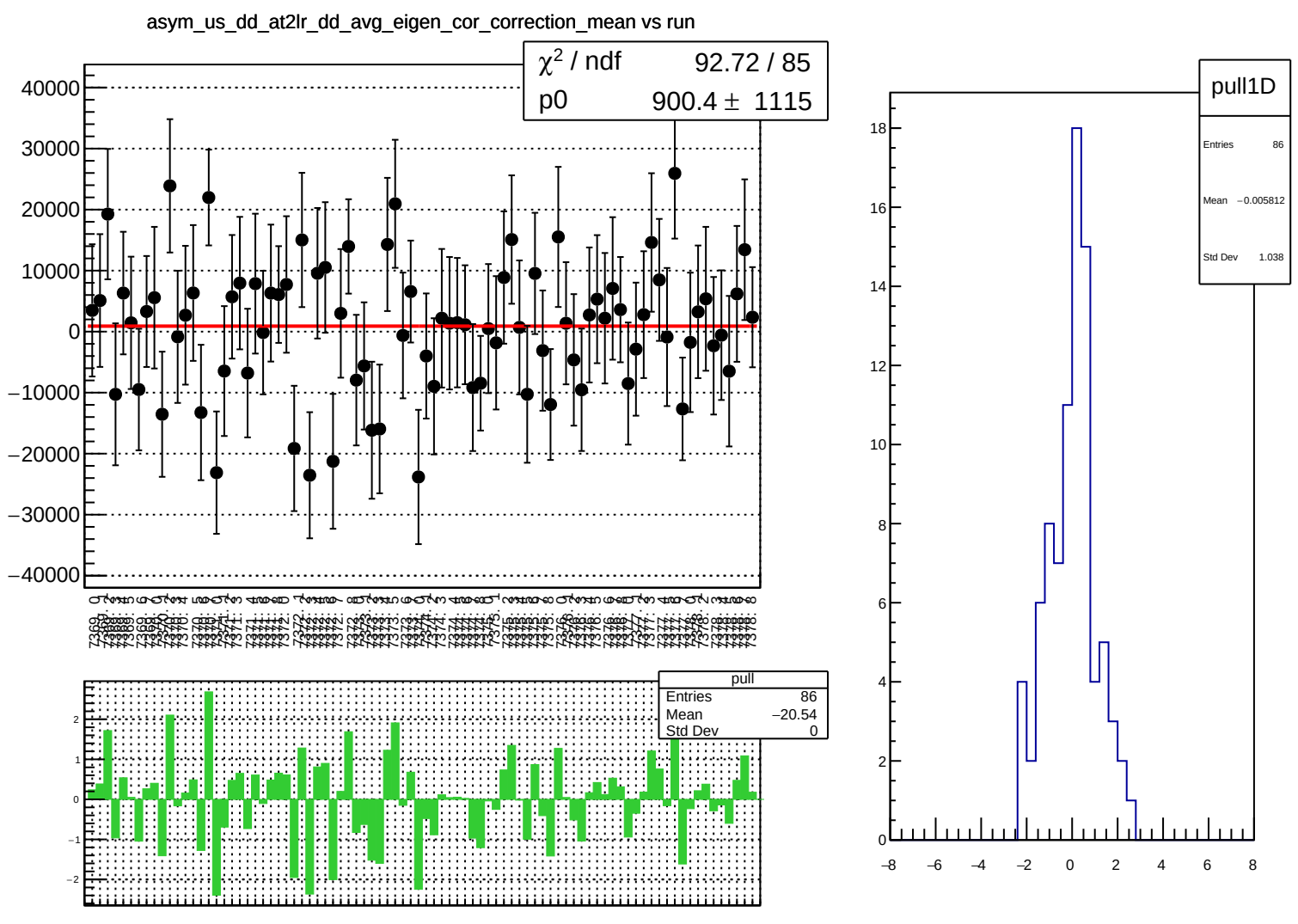

pull1D
Entries 86
Mean −0.005812
Std Dev 1.038

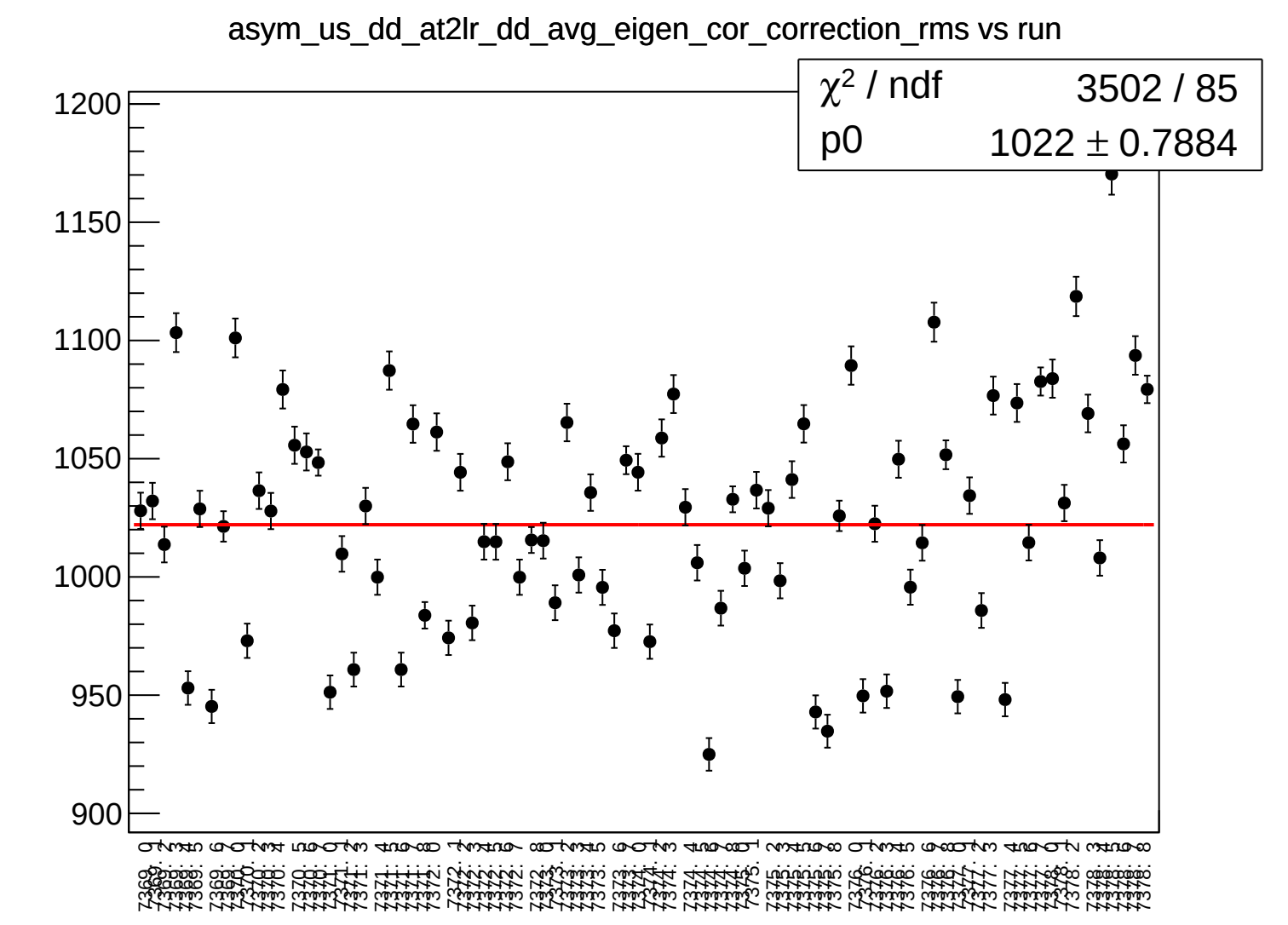

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3502 / 85
p0 1022 ± 0.7884
1200
1150
1100
1050
1000
950
900

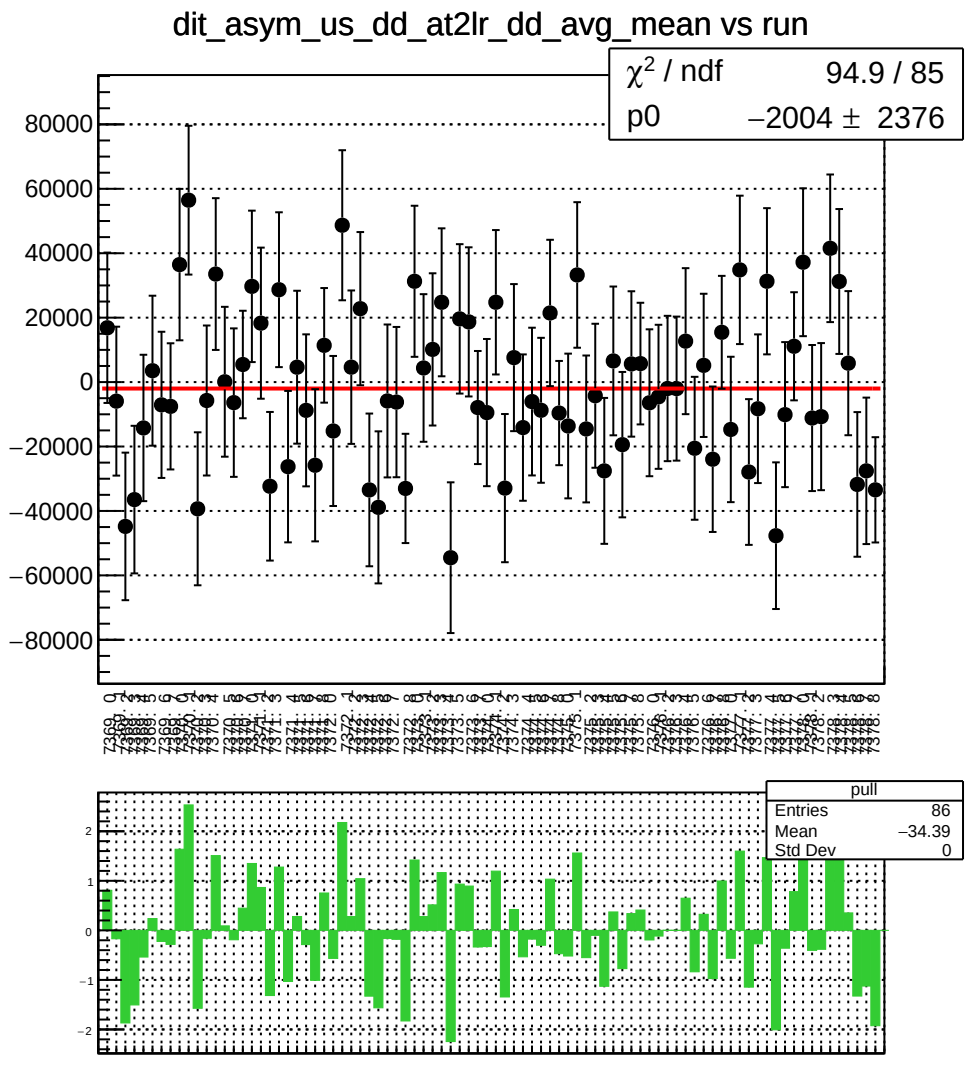

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 80.88 / 85
p0 −1010 ± 2226
pull
Entries 86
Mean 8.435
Std Dev 24.96

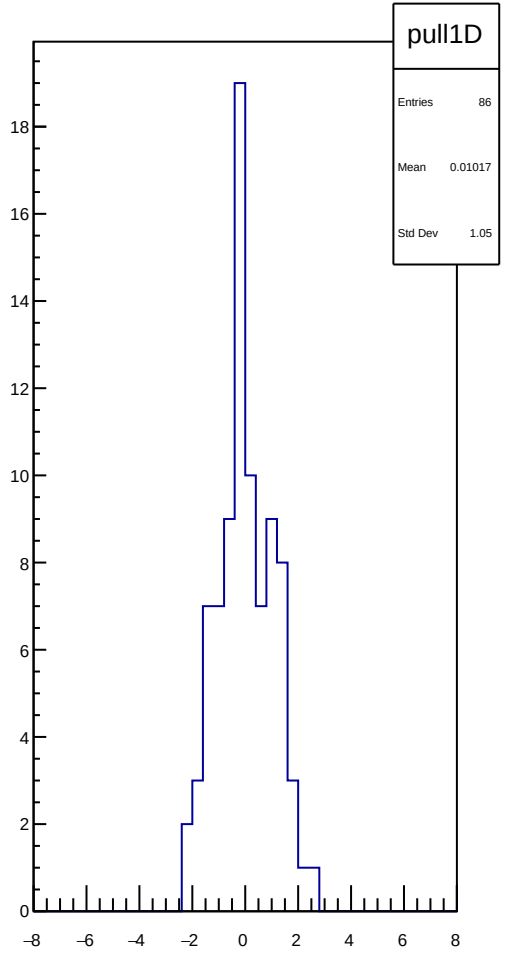

pull1D
Entries 86
Mean 0.009442
Std Dev 0.9697

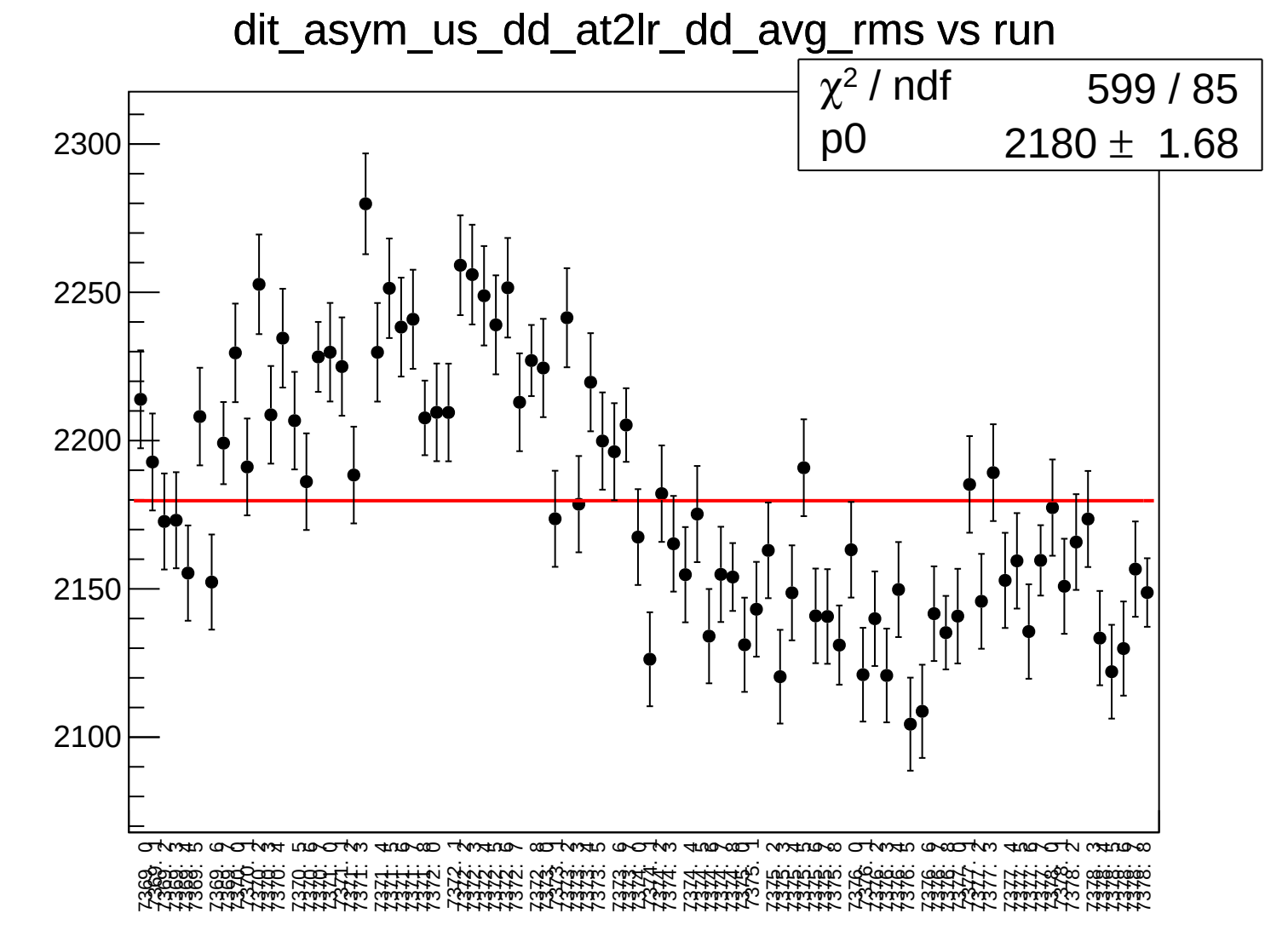

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 84.78 / 85
p0 2042 ± 1.574
2100
2080
2060
2040
2020
2000
1980

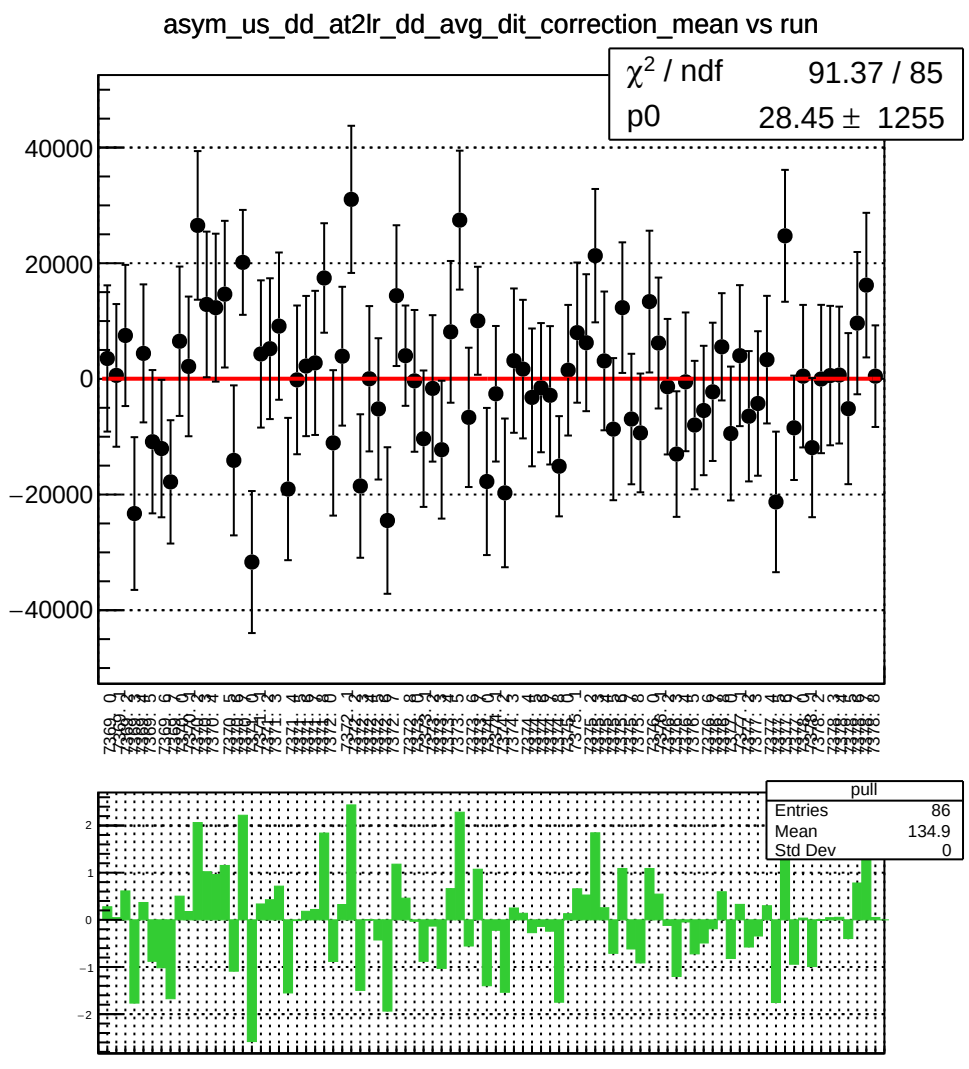

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.72 / 85
p0 900.4 ± 1115
pull
Entries 86
Mean −20.54
Std Dev 0
pull1D
Entries 86
Mean −0.005812
Std Dev 1.038

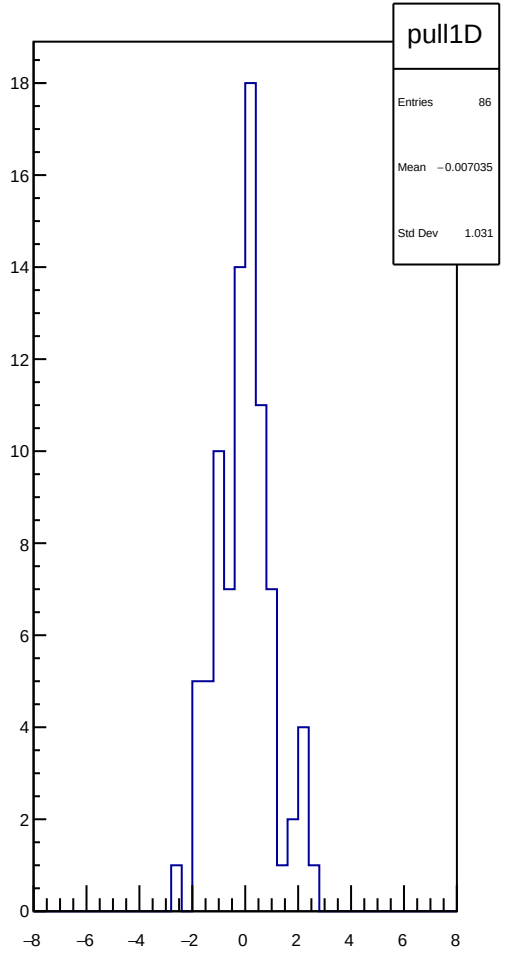

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3502 / 85
p0 1022 ± 0.7884
1200
1150
1100
1050
1000
950
900

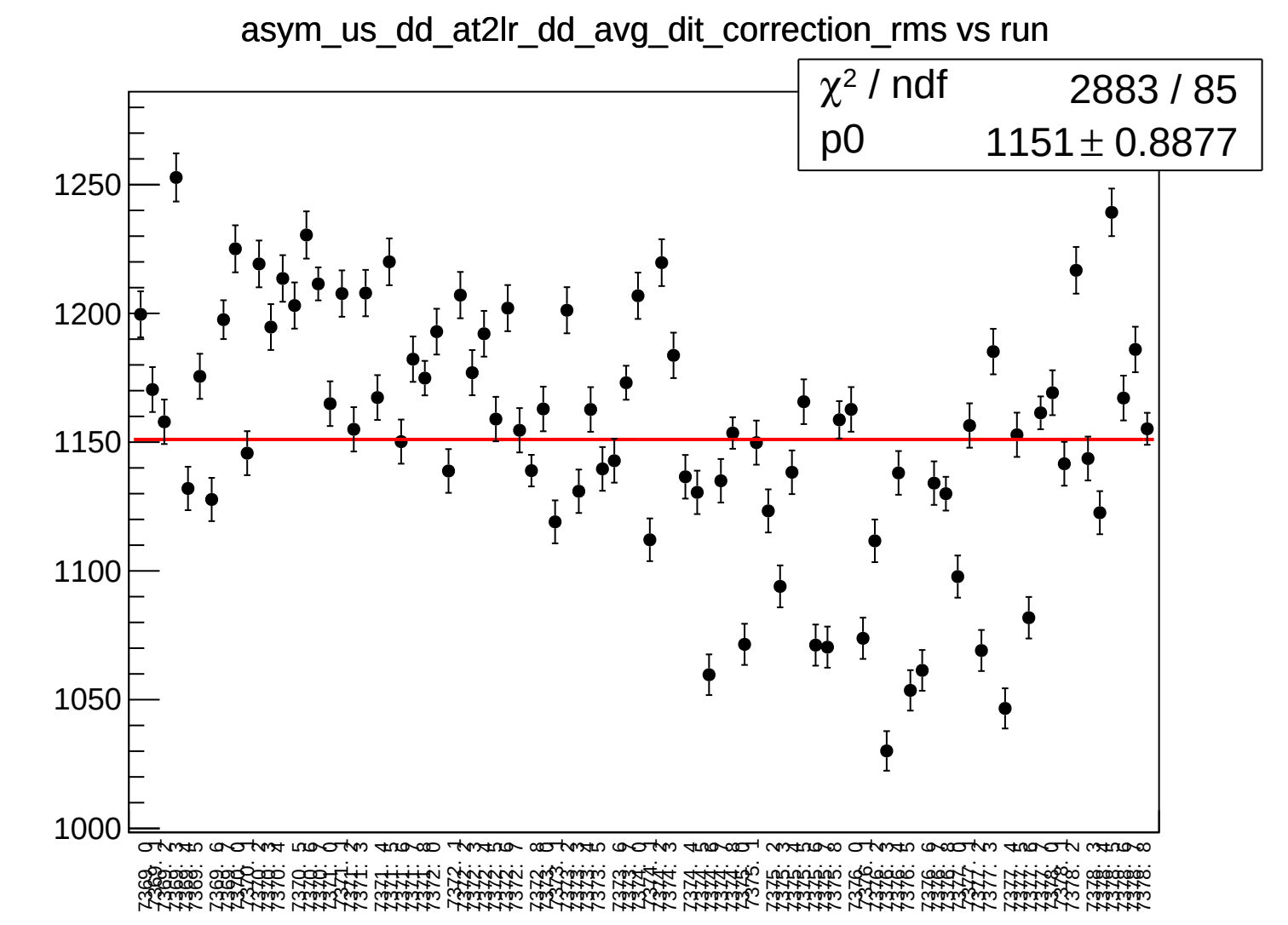

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ^2 / ndf 94.9 / 85
p0 −2004 ± 2376
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −34.39
Std Dev 0
2
1
0
−1
−2

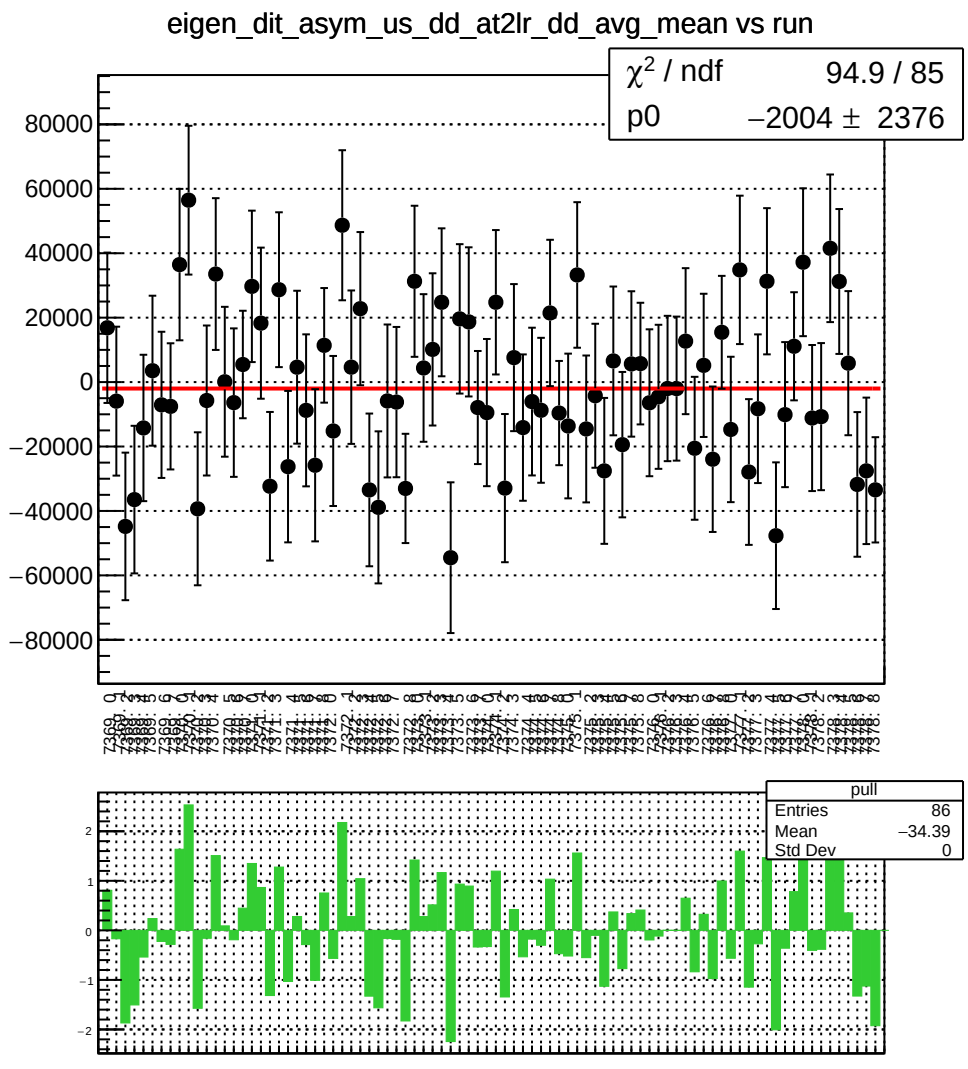

pull1D
Entries 86
Mean 0.01017
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

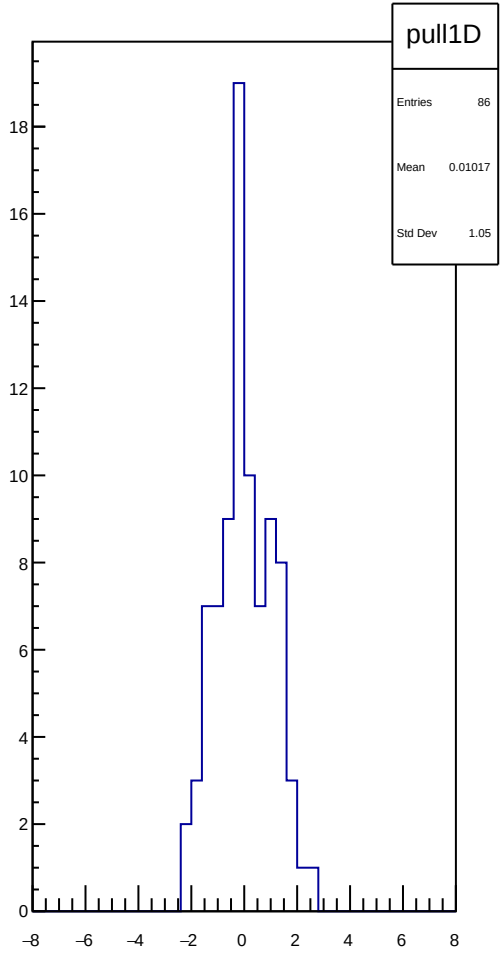

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 599 / 85
p0 2180 ± 1.68
2300
2250
2200
2150
2100

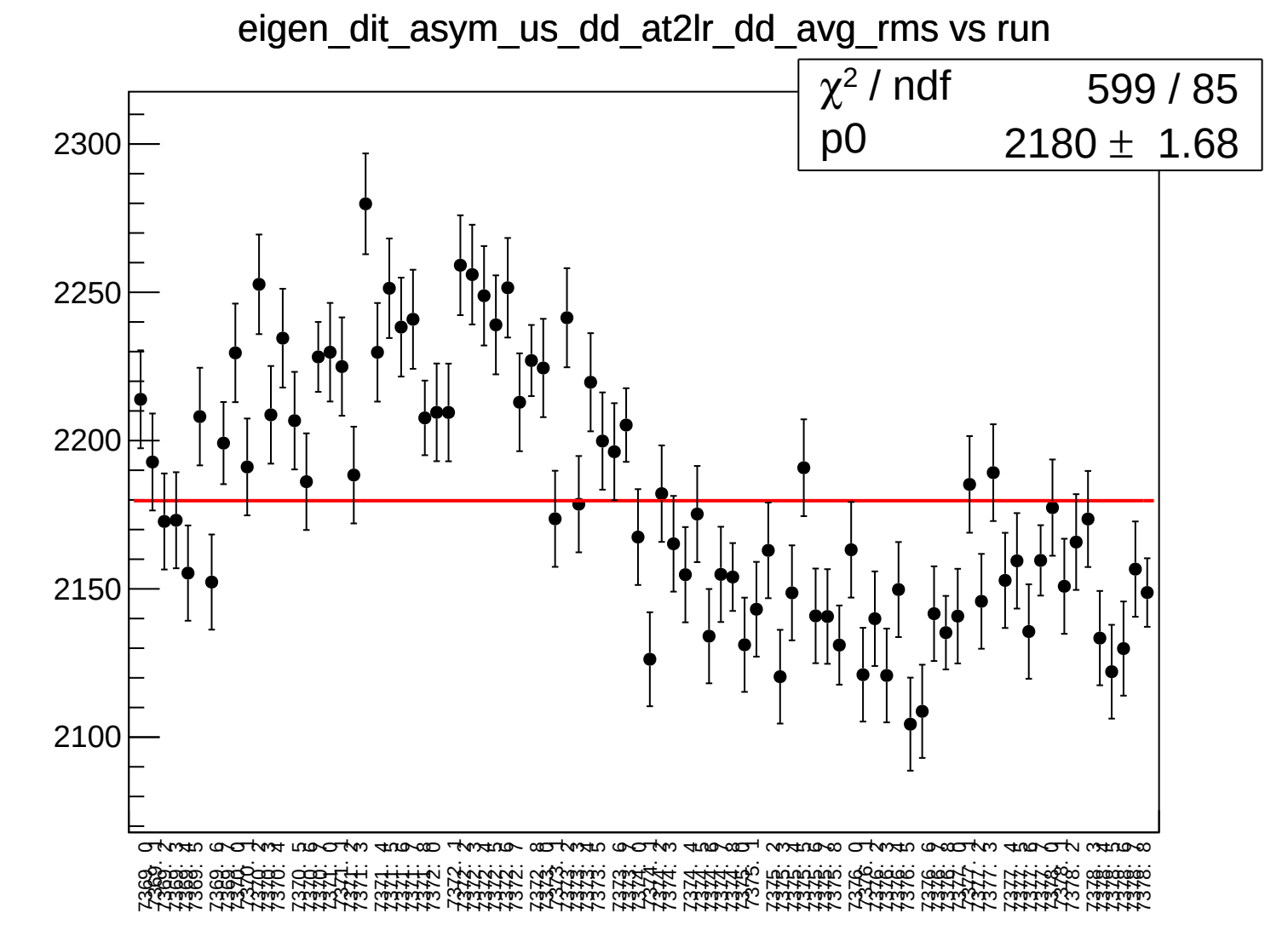

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 91.37 / 85
p0 28.45 ± 1255
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 134.9
Std Dev 0
2
1
0
−1
−2

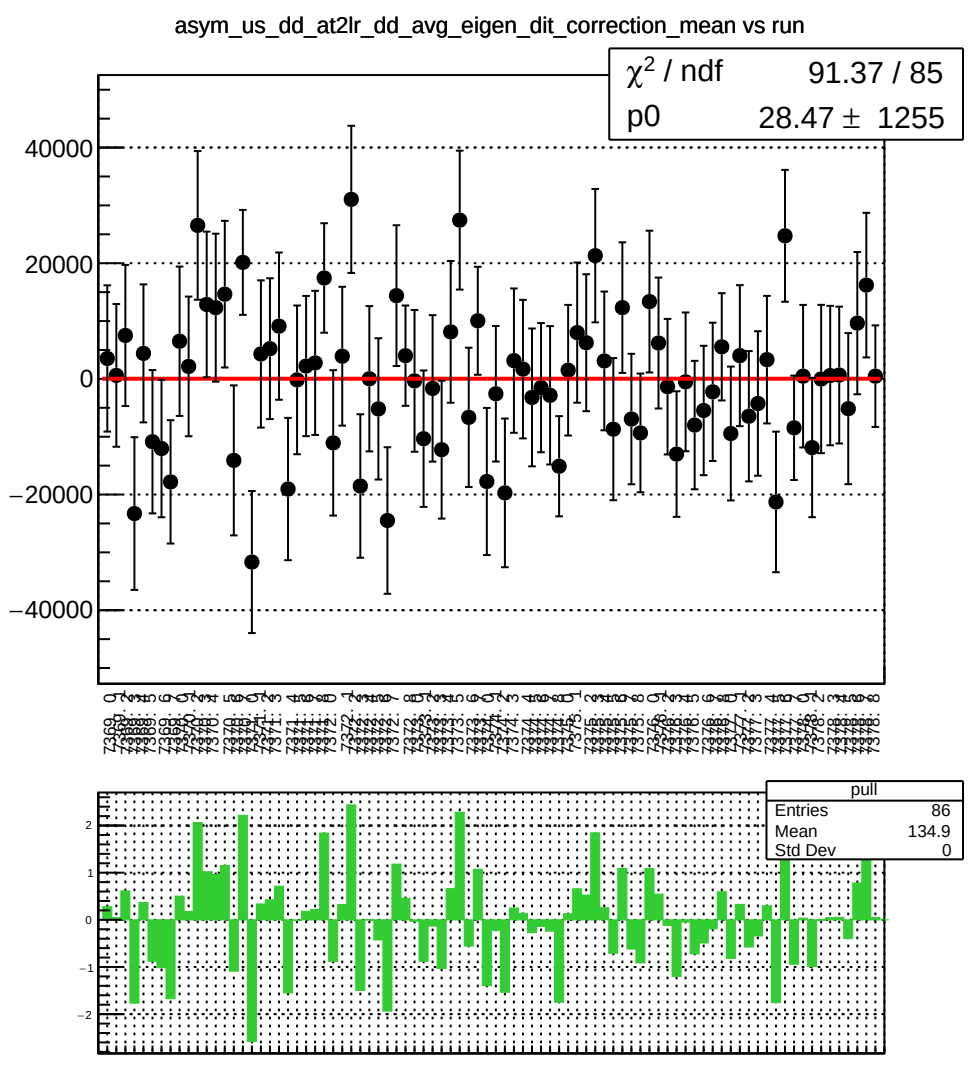

pull1D
Entries 86
Mean −0.007035
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

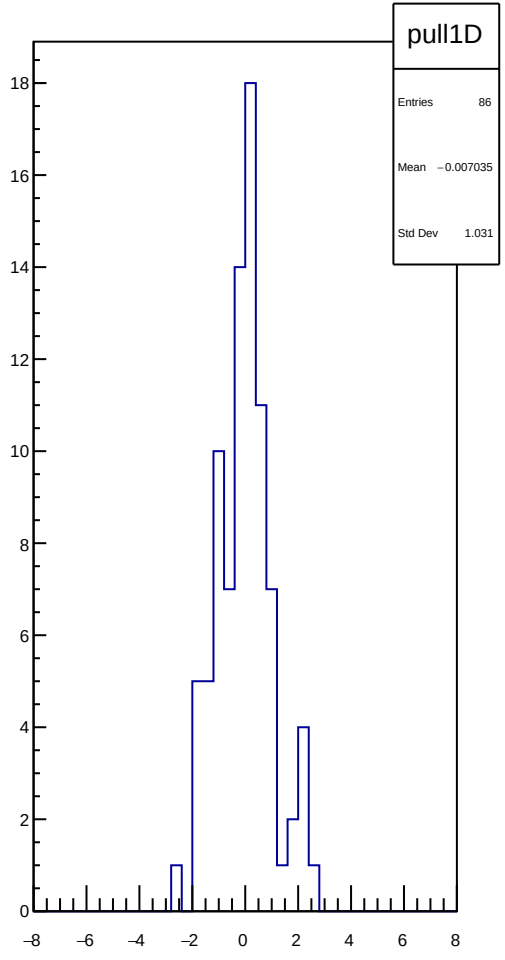

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2883 / 85
p0 1151 ± 0.8877
1250
1200
1150
1100
1050
1000

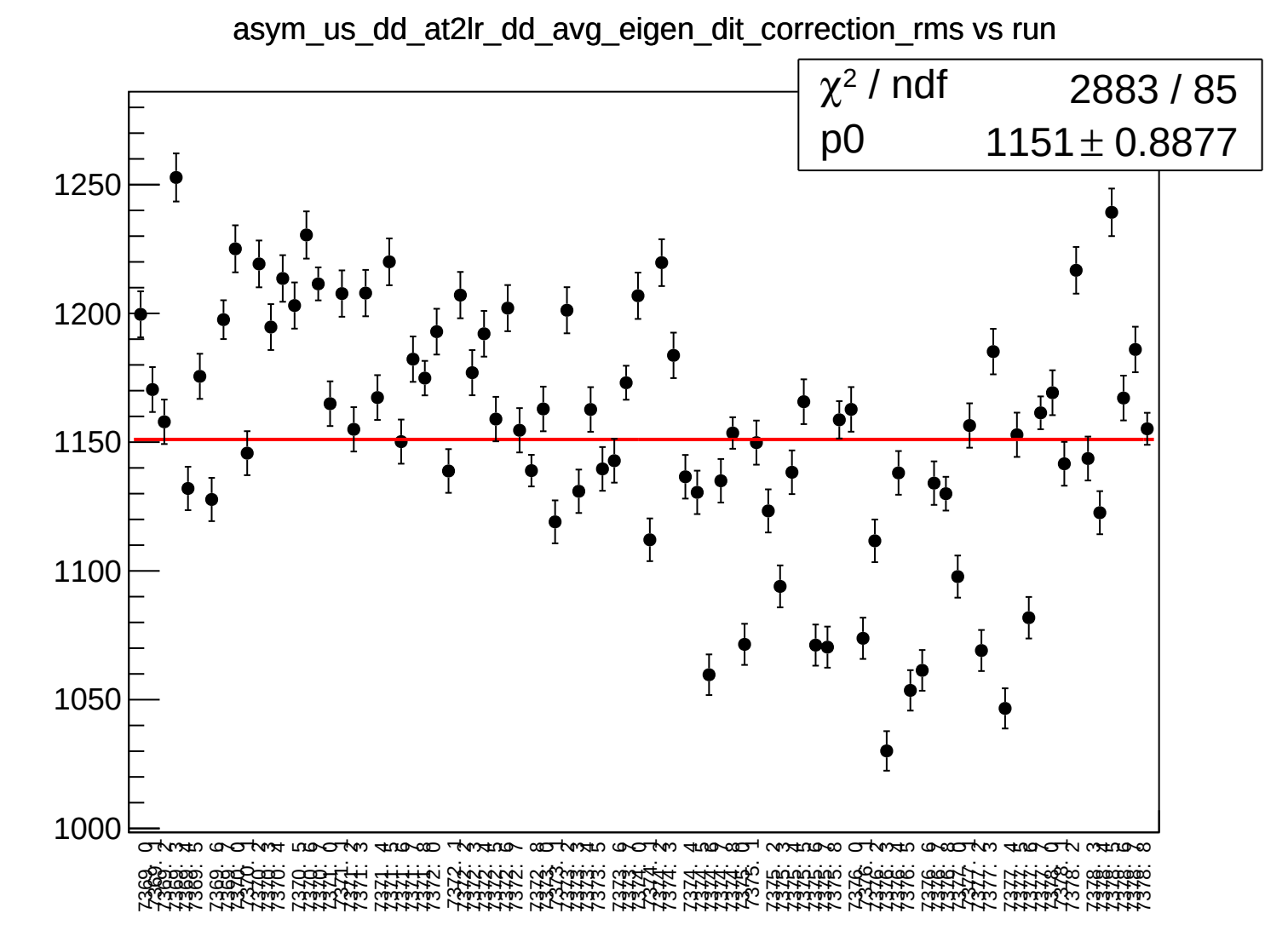

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 94.9 / 85
p0 −2004 ± 2376
pull
Entries 86
Mean −34.39
Std Dev 0

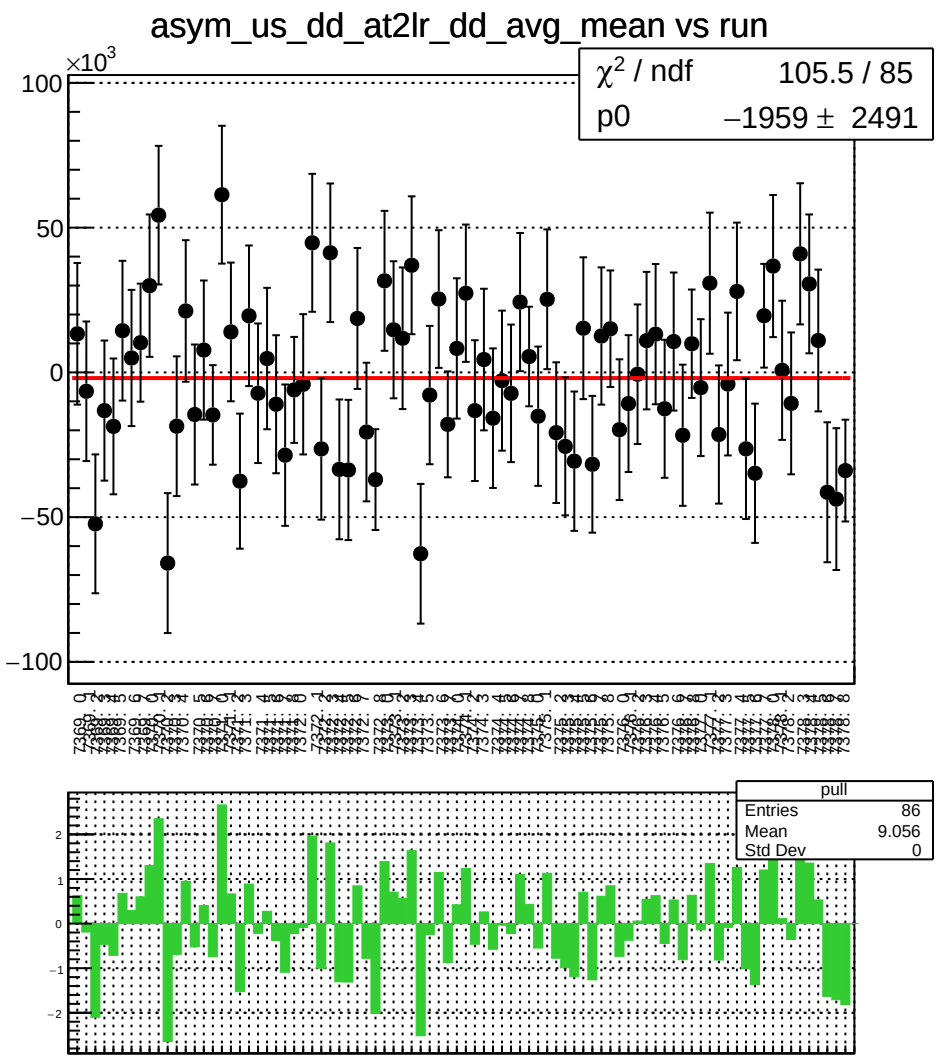

pull1D
Entries 86
Mean 0.01017
Std Dev 1.05

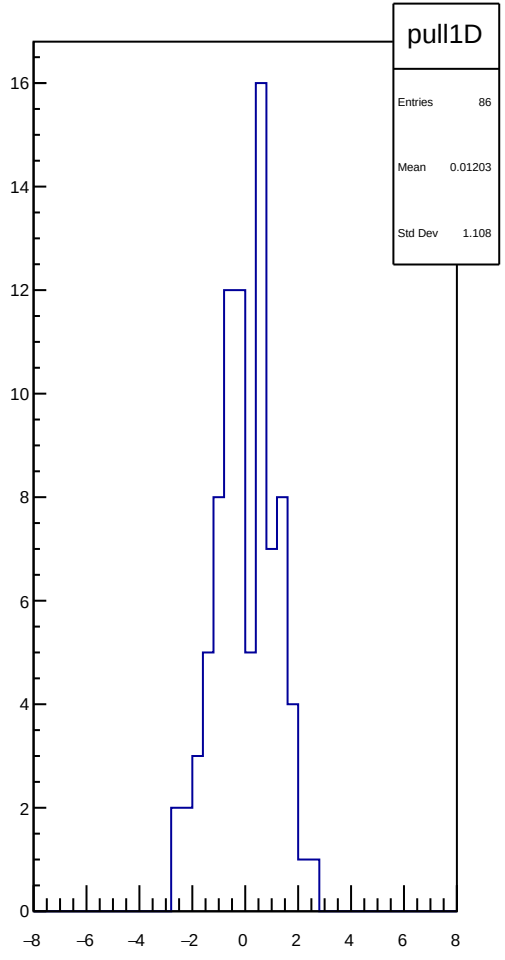

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 599 / 85
p0 2180 ± 1.68
2300
2250
2200
2150
2100

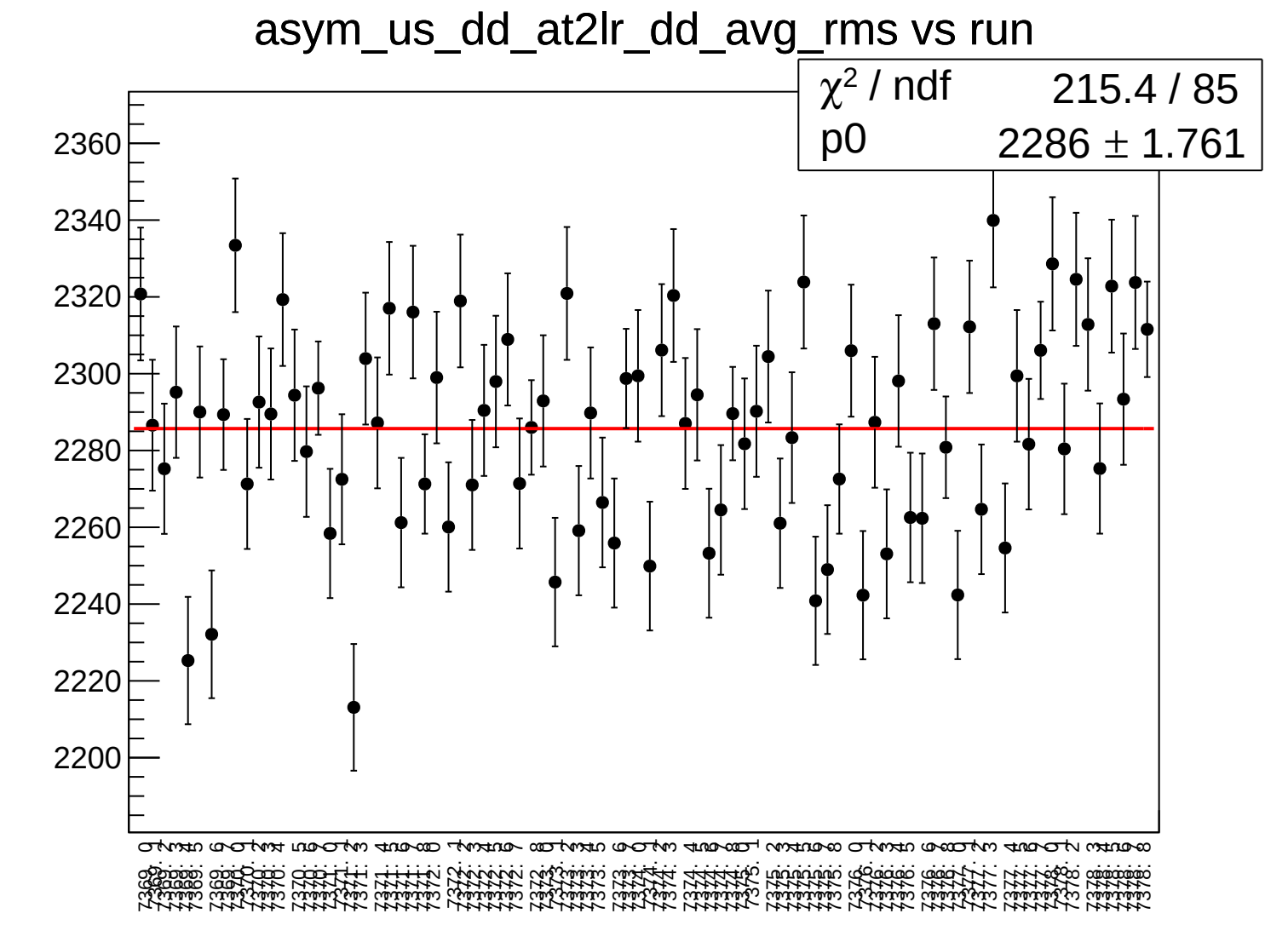

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.37 / 85
p0 28.47 ± 1255
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 134.9
Std Dev 0
2
1
0
−1
−2

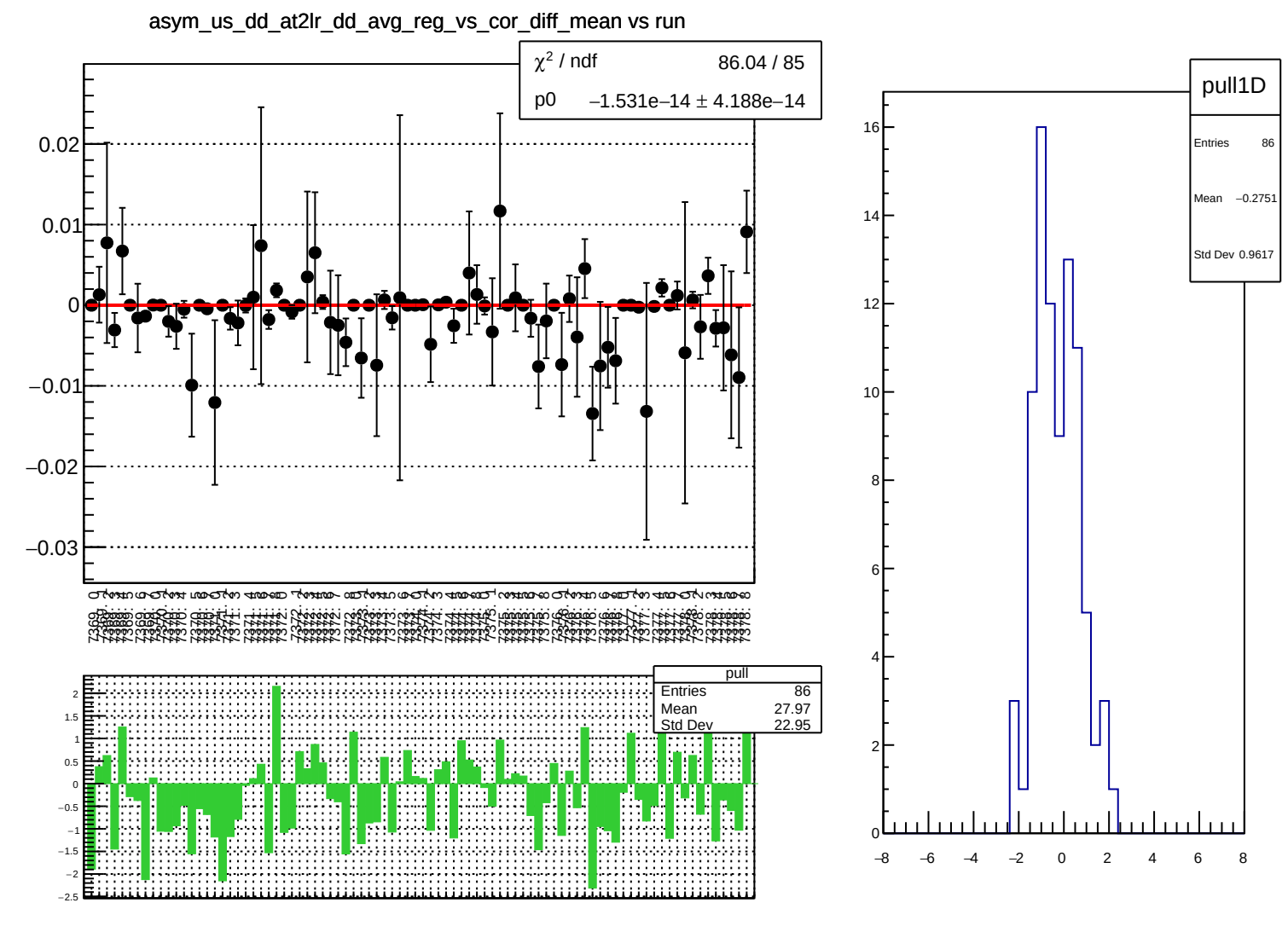

pull1D
Entries 86
Mean −0.007035
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

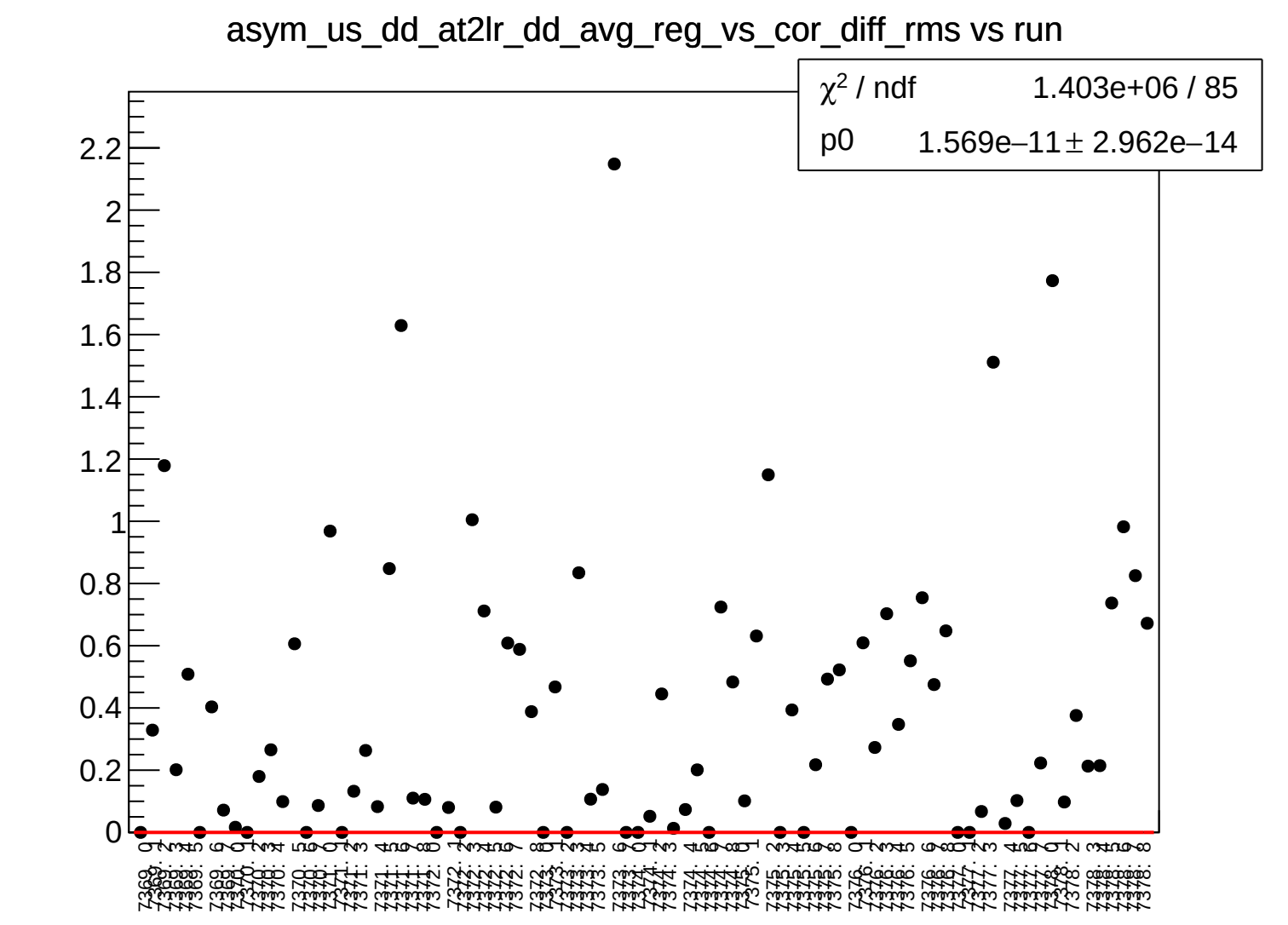

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2883 / 85
p0 1151 ± 0.8877
1250
1200
1150
1100
1050
1000

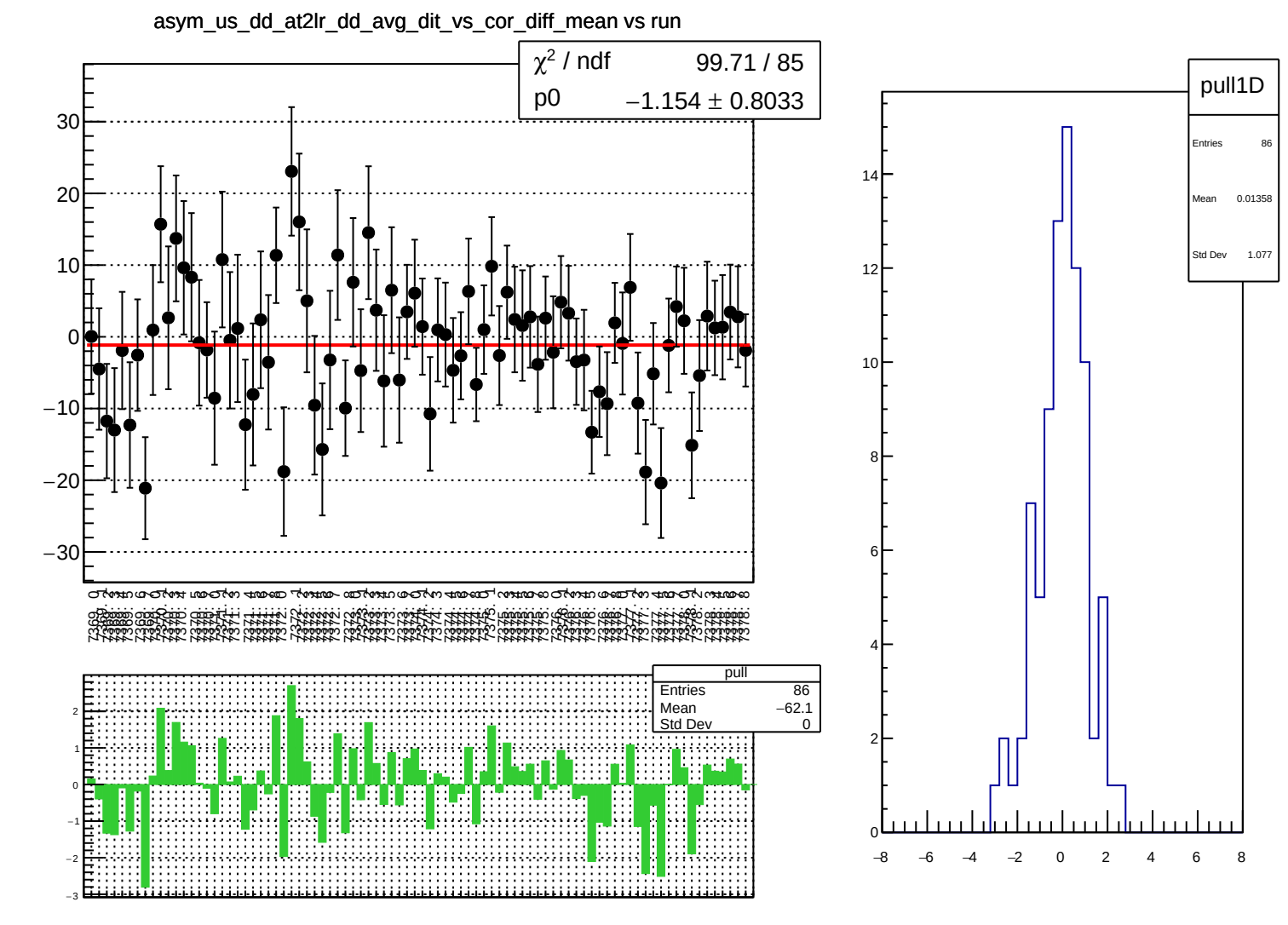

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 105.5 / 85
p0 −1959 ± 2491
100
50
0
−50
−100
pull
Entries 86
Mean 9.056
Std Dev 0
2
1
0
−1
−2

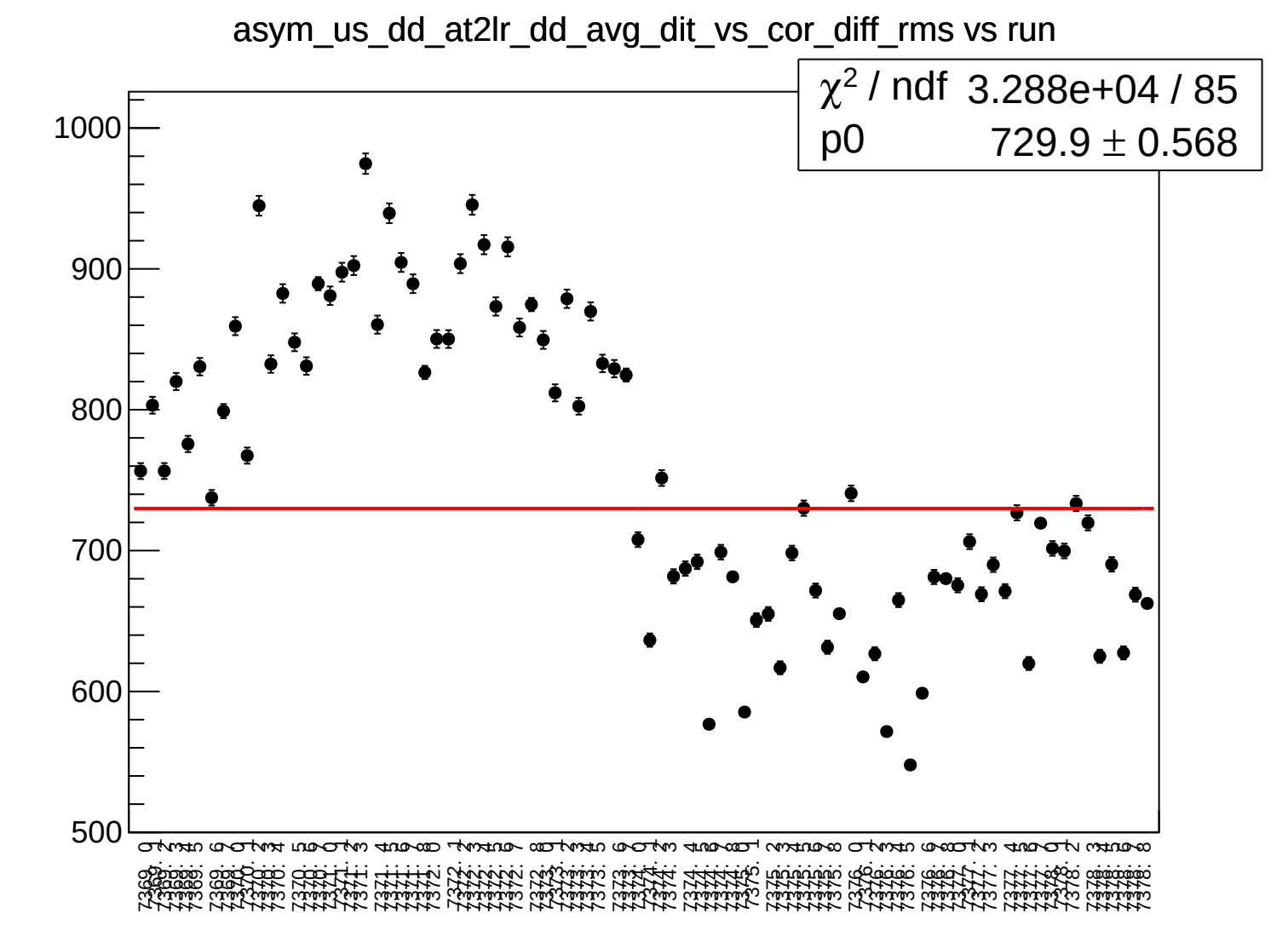

pull1D
Entries 86
Mean 0.01203
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

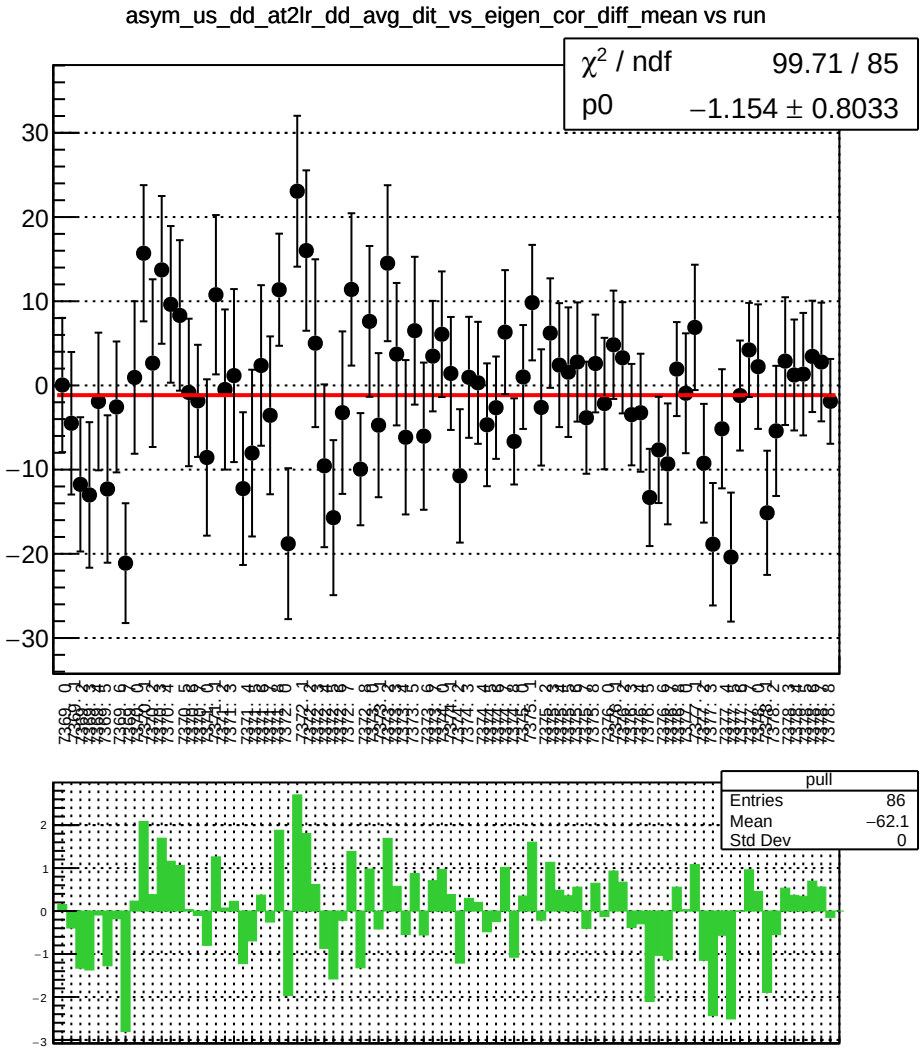

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 215.4 / 85
p0 2286 ± 1.761
2360
2340
2320
2300
2280
2260
2240
2220
2200

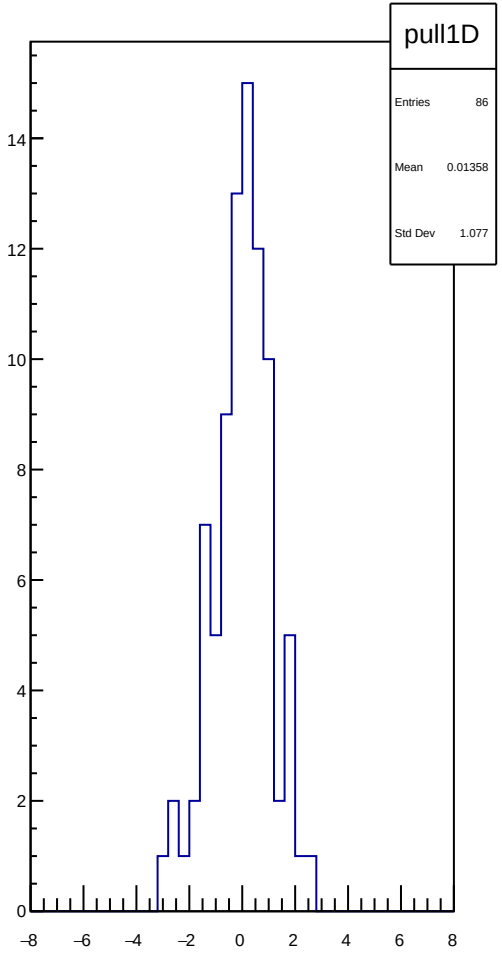

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.04 / 85
p0 −1.531e−14 ± 4.188e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 27.97
Std Dev 22.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 86
Mean −0.2751
Std Dev 0.9617
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

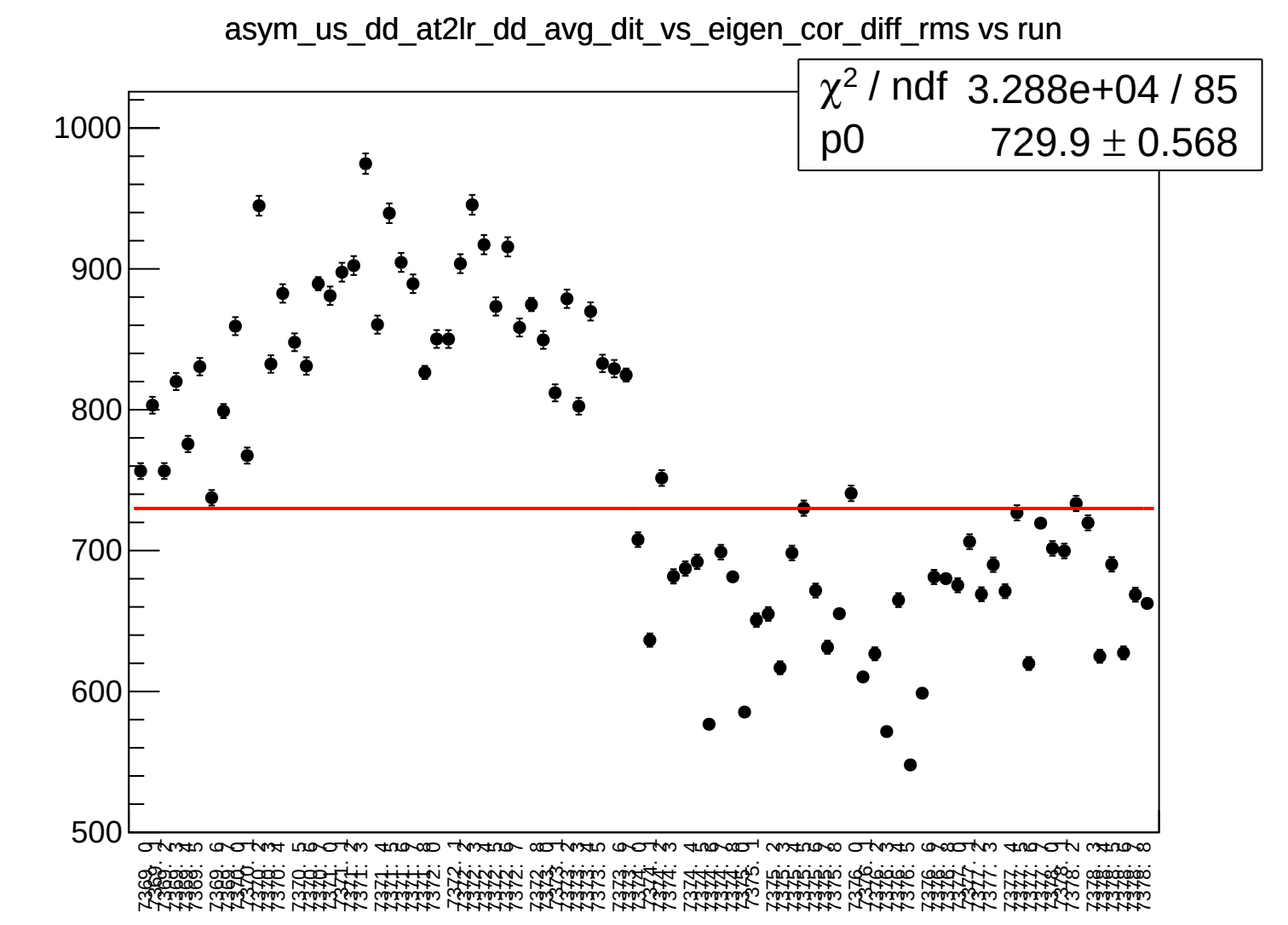

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.403e+06 / 85
p0 1.569e−11 ± 2.962e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

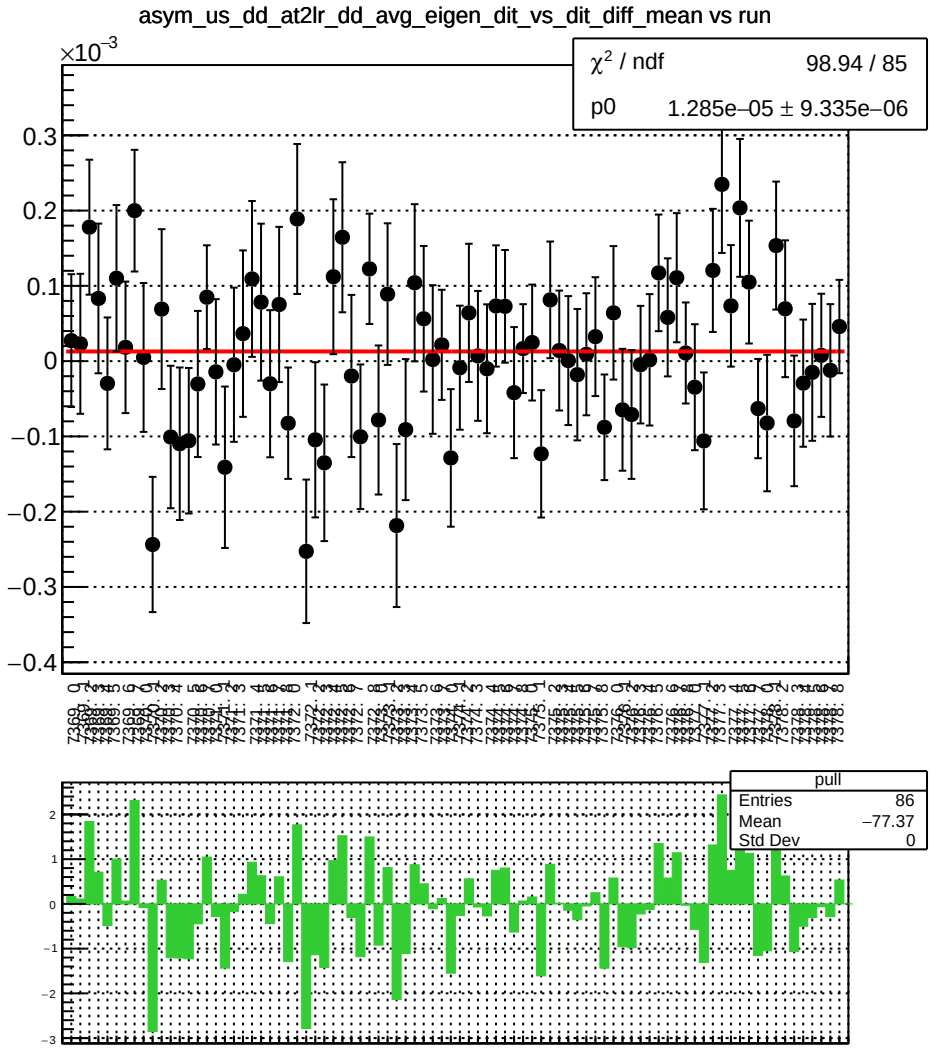

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.71 / 85
p0 −1.154 ± 0.8033
pull
Entries 86
Mean −62.1
Std Dev 0
pull1D
Entries 86
Mean 0.01358
Std Dev 1.077

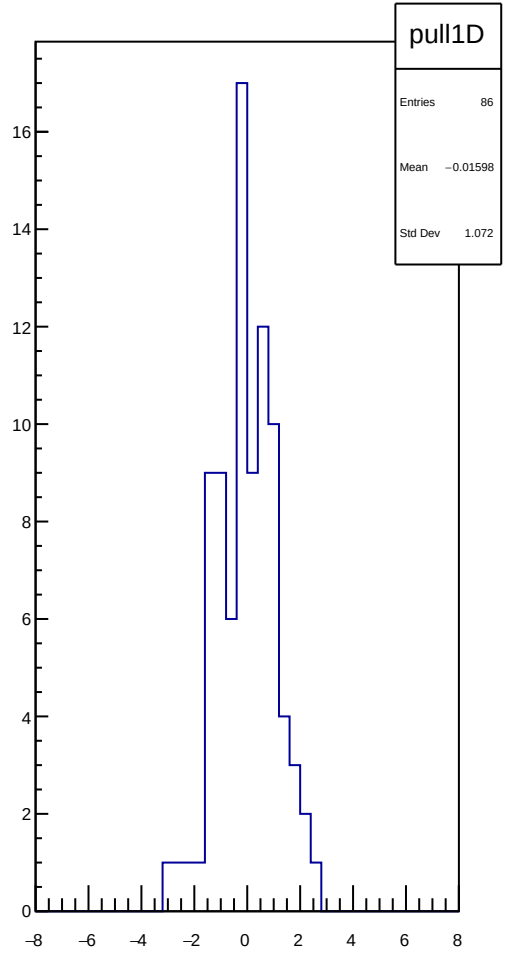

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.288e+04 / 85
p0 729.9 ± 0.568
1000
900
800
700
600
500

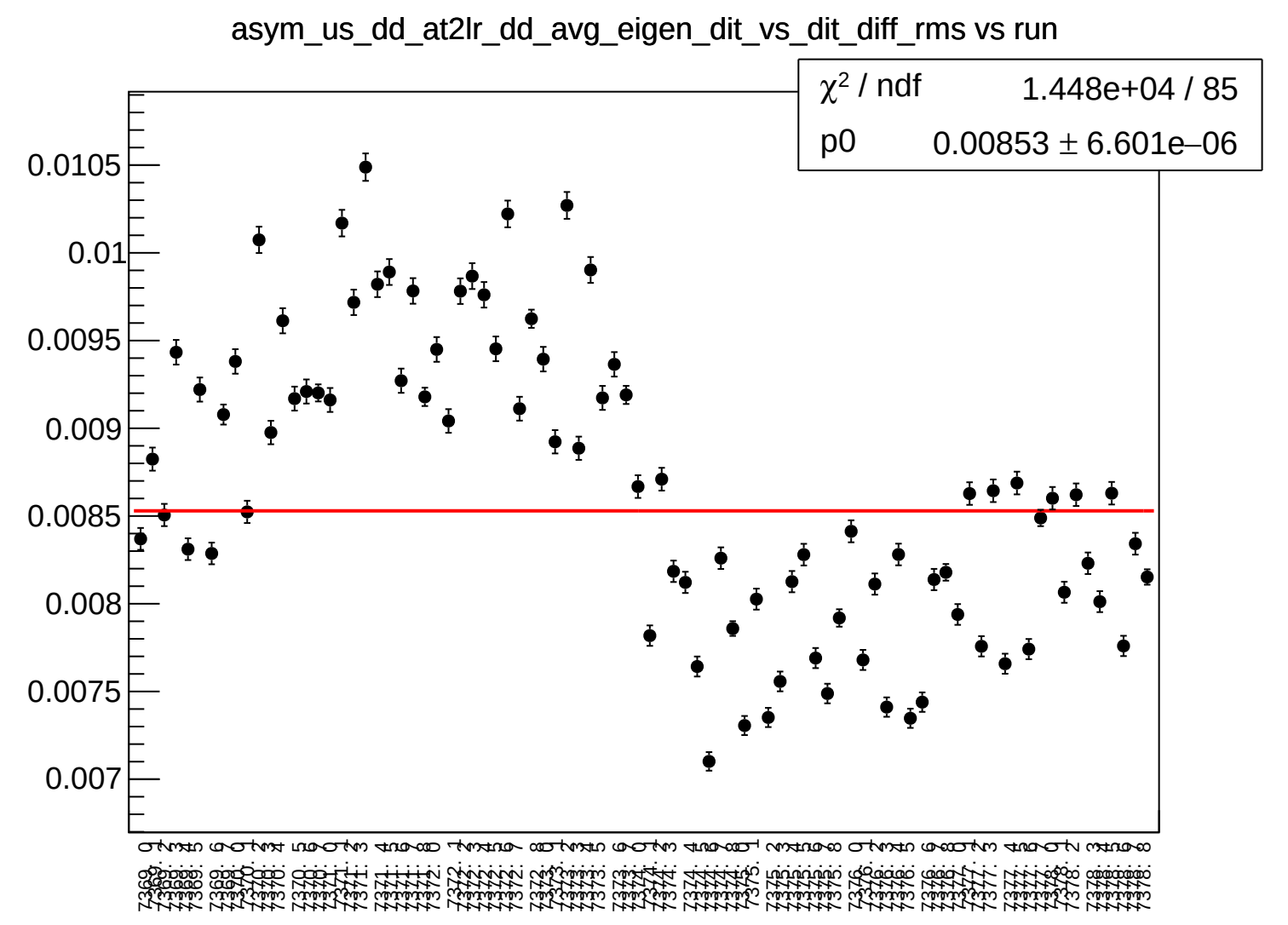

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.71 / 85
p0 −1.154 ± 0.8033
pull
Entries 86
Mean −62.1
Std Dev 0

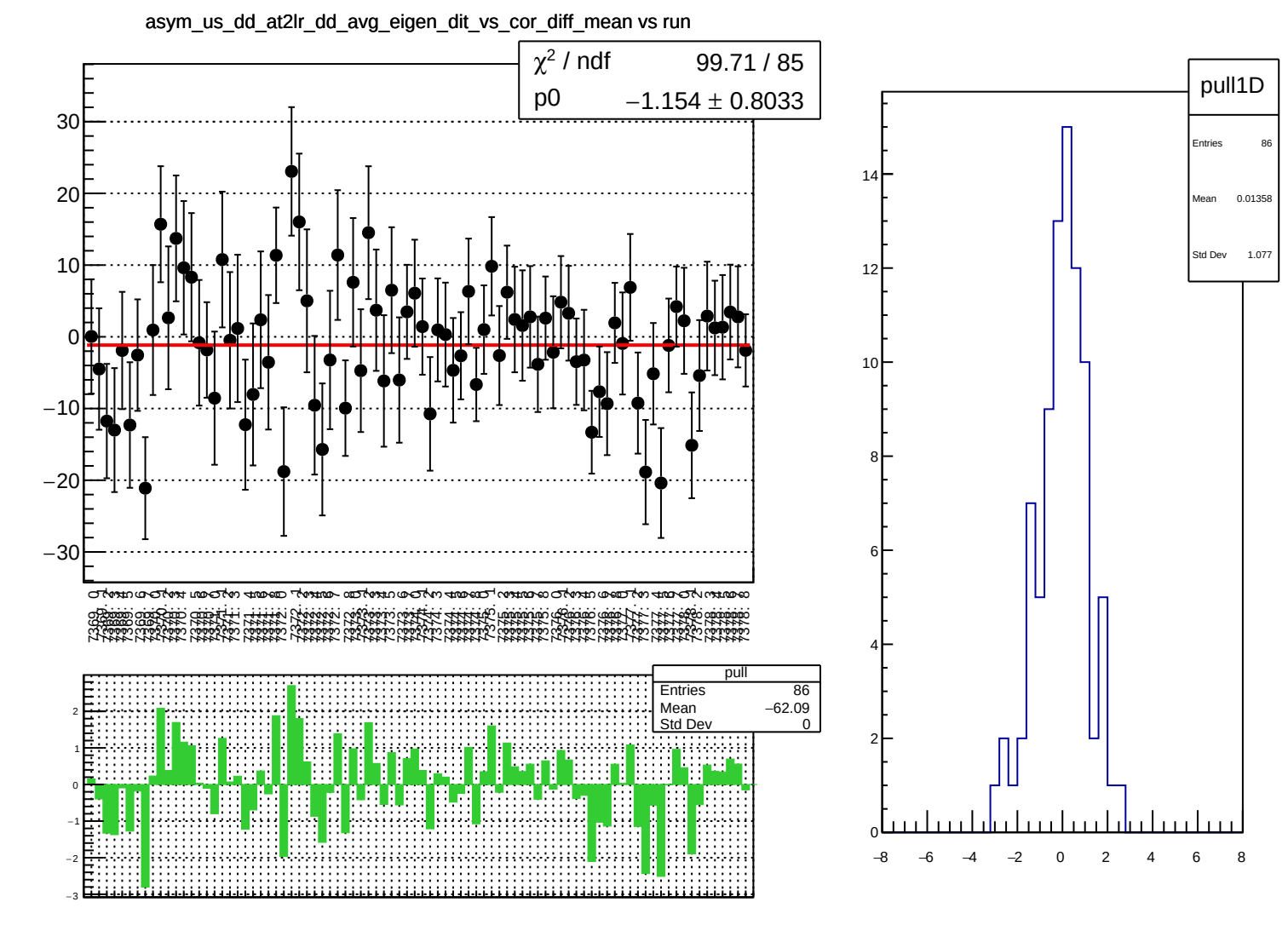

pull1D
Entries 86
Mean 0.01358
Std Dev 1.077

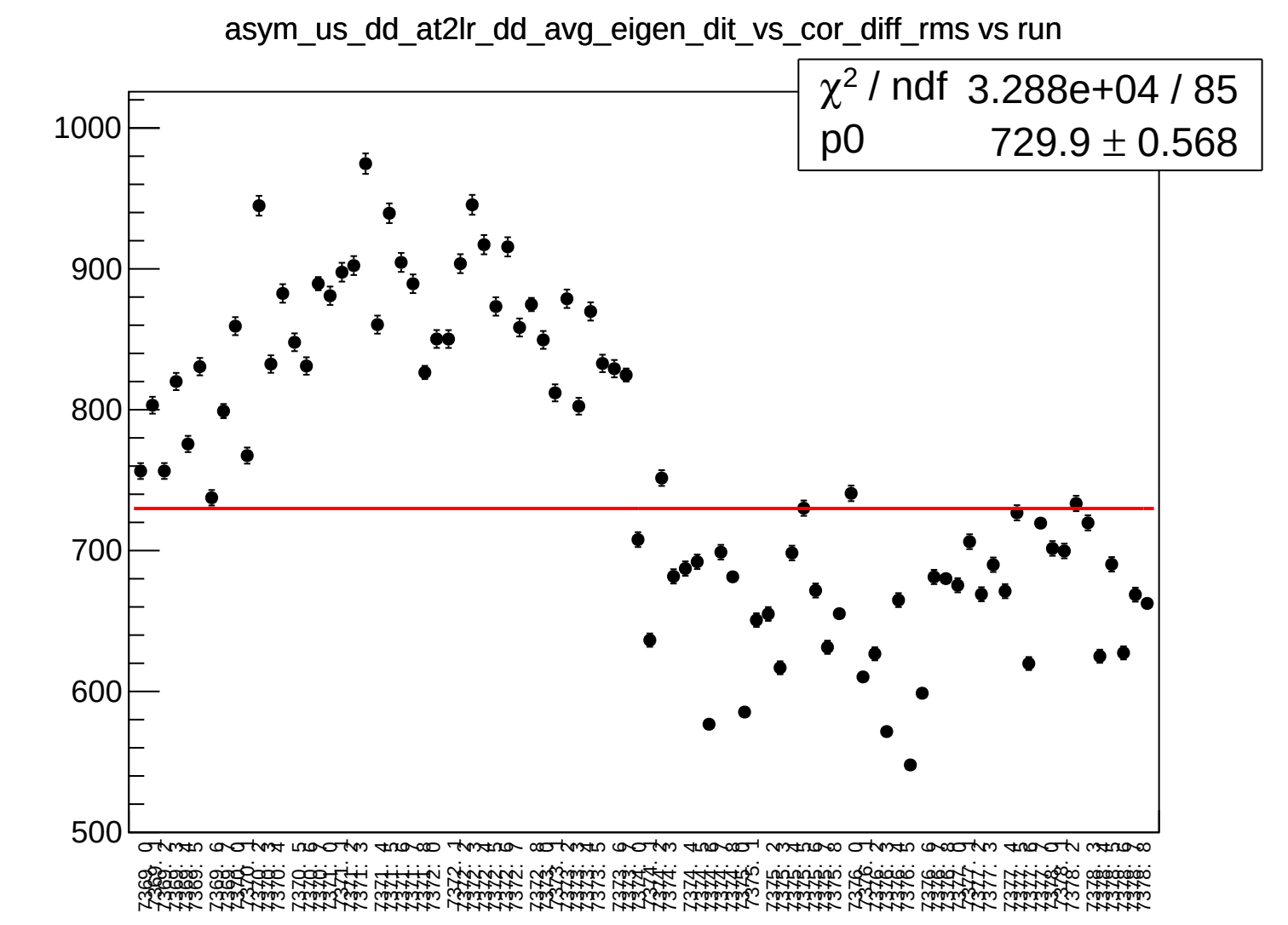

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.288e+04 / 85
p0 729.9 ± 0.568
1000
900
800
700
600
500

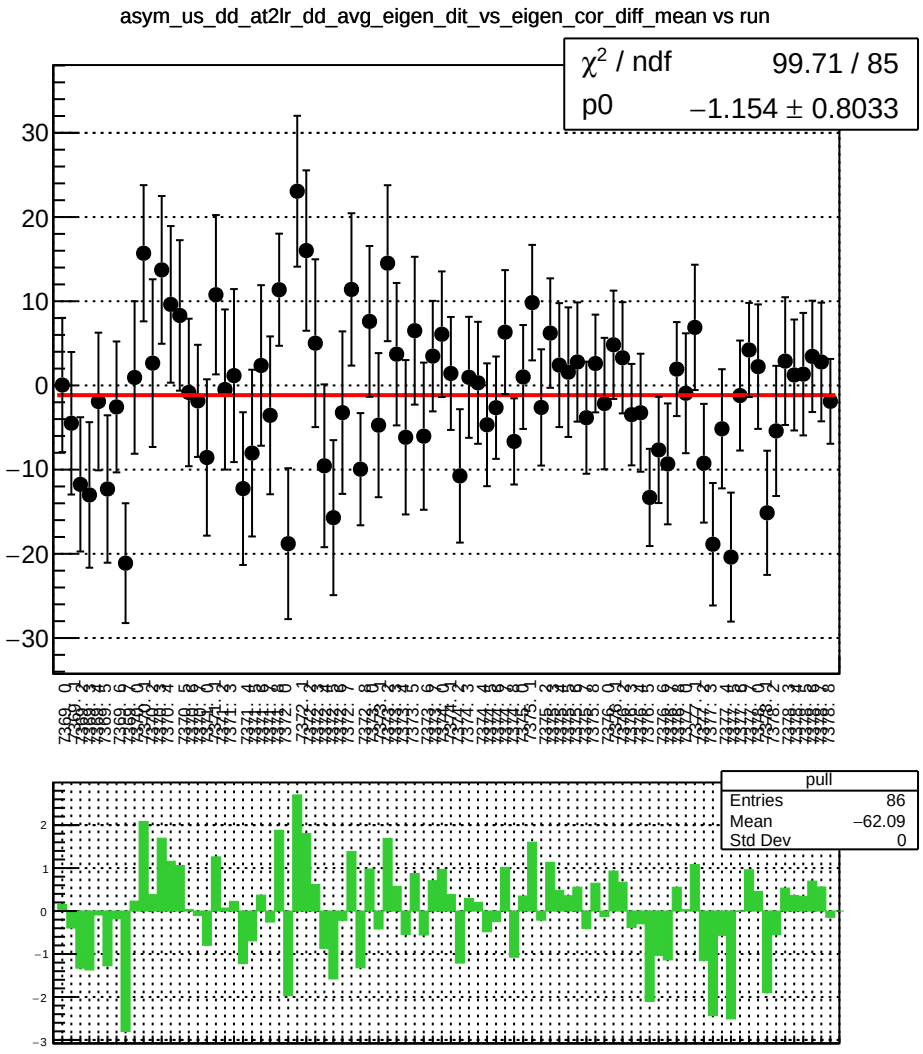

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.94 / 85
p0 1.285e−05 ± 9.335e−06
pull
Entries 86
Mean −77.37
Std Dev 0

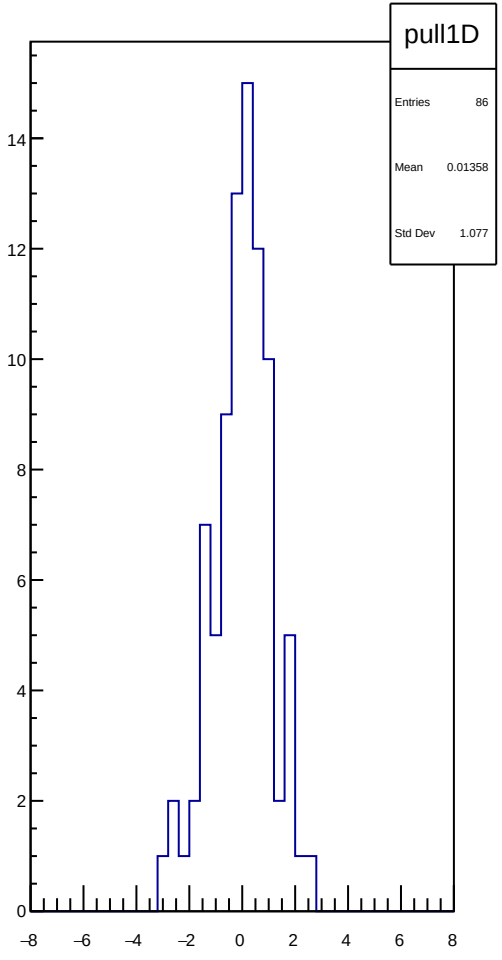

pull1D
Entries 86
Mean −0.01598
Std Dev 1.072

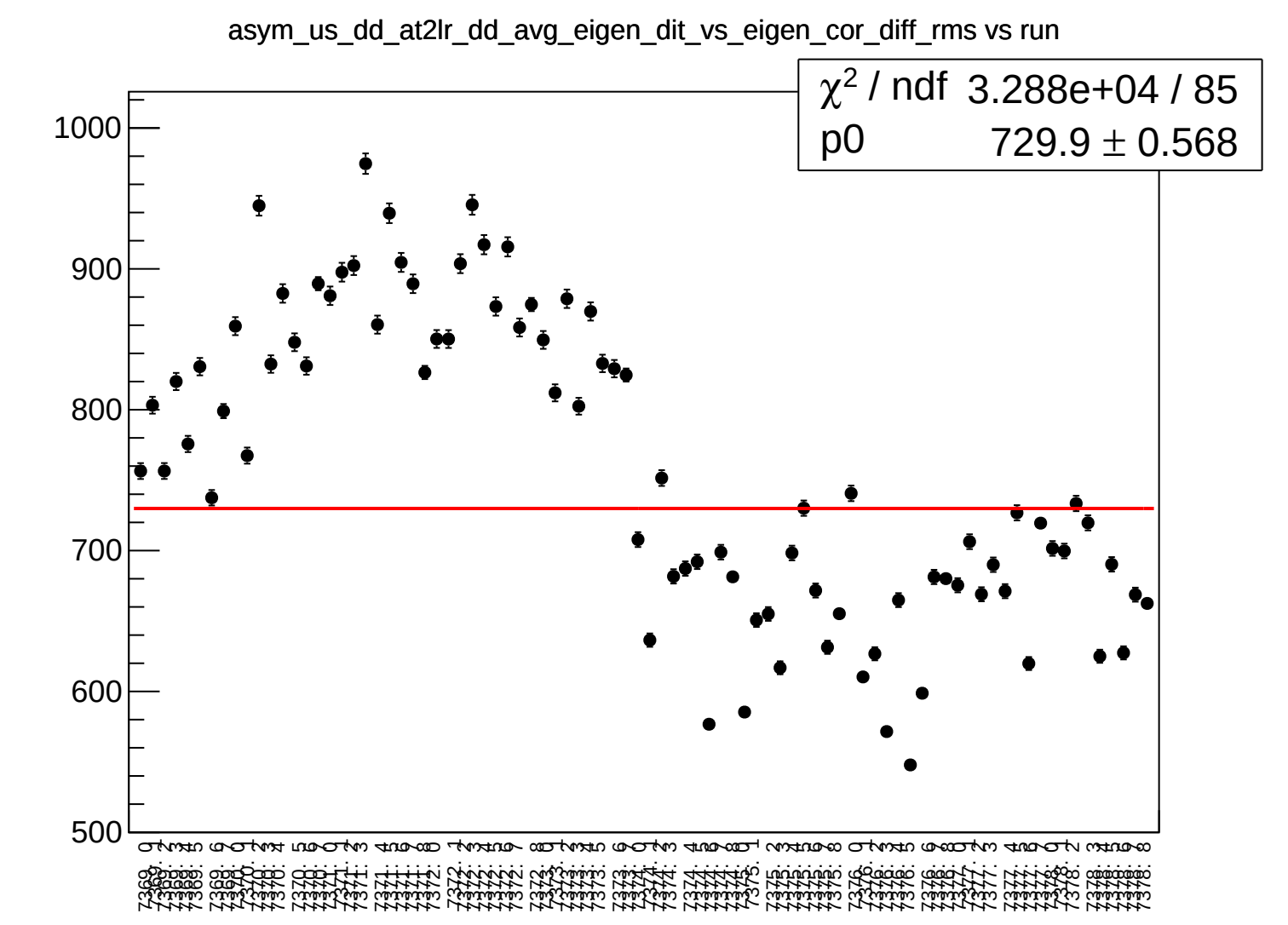

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.448e+04 / 85
p0 0.00853 ± 6.601e–06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

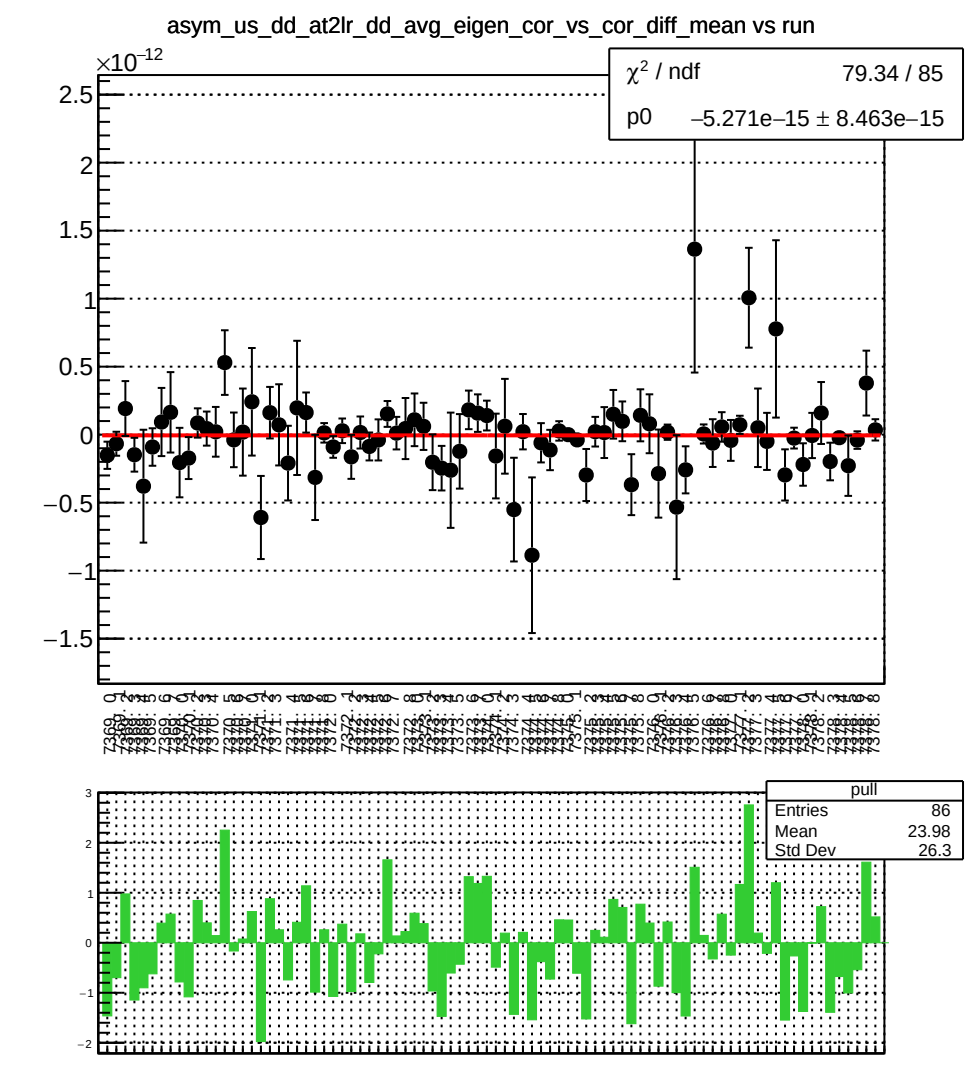

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.71 / 85
p0 −1.154 ± 0.8033
pull
Entries 86
Mean −62.09
Std Dev 0
pull1D
Entries 86
Mean 0.01358
Std Dev 1.077

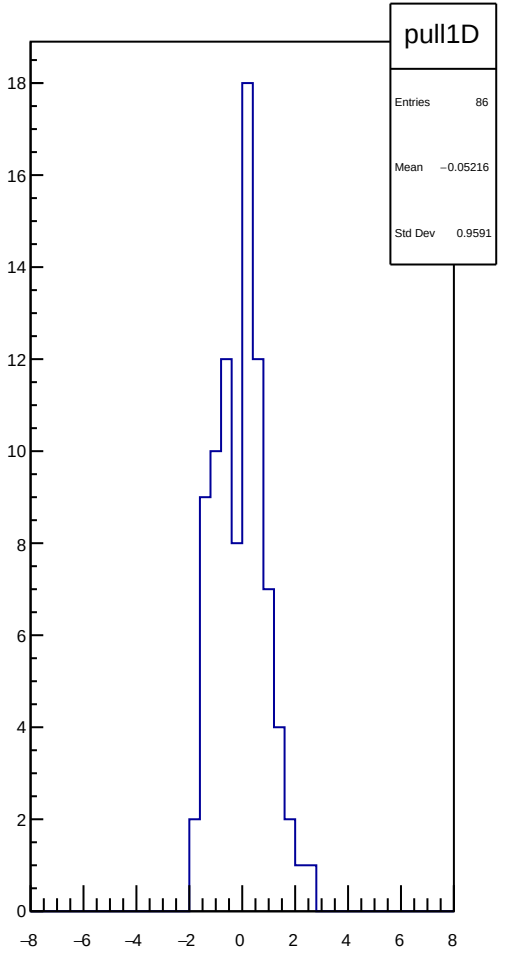

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.288e+04 / 85
p0 729.9 ± 0.568
1000
900
800
700
600
500

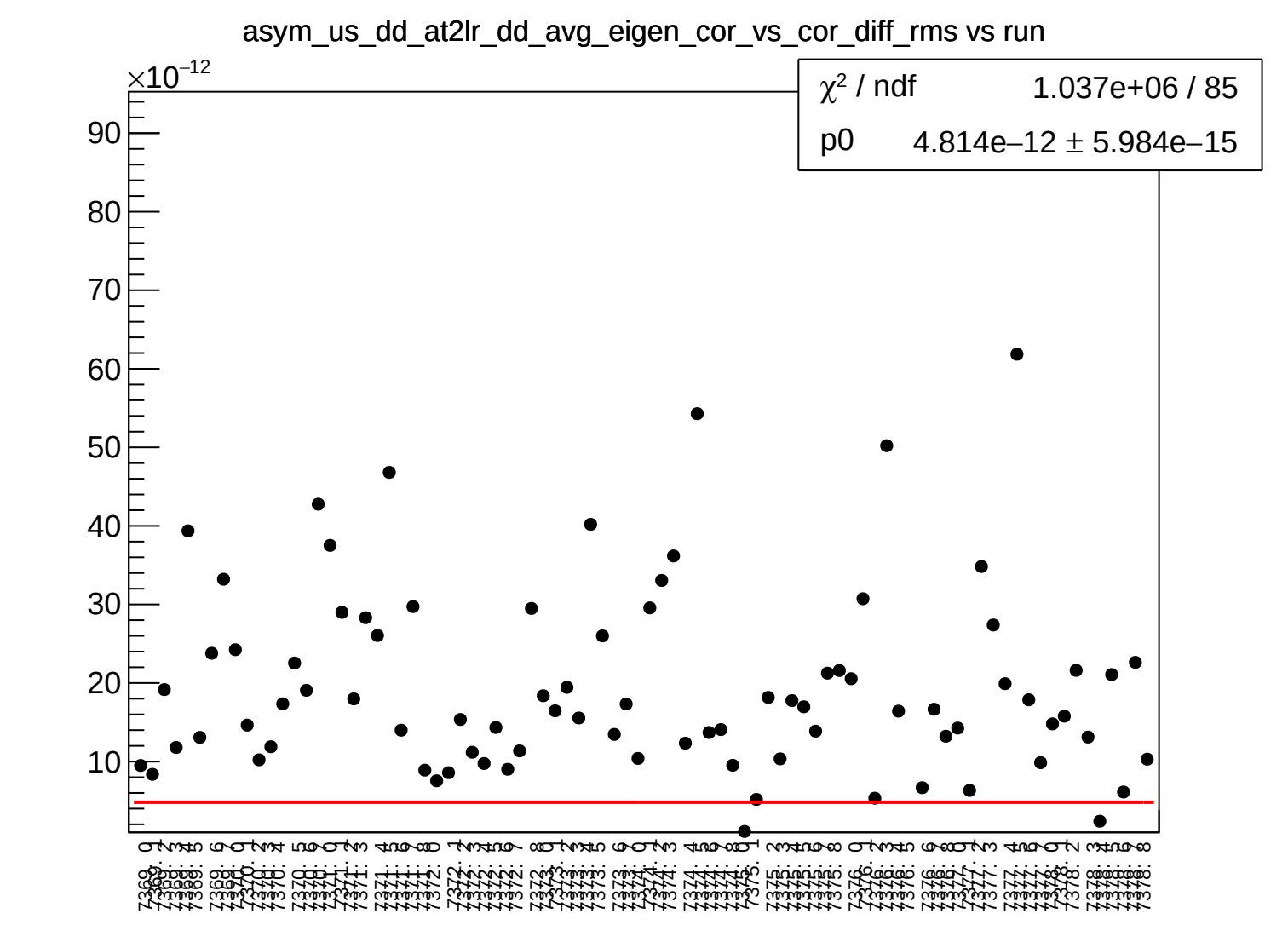

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.71 / 85
p0 −1.154 ± 0.8033
pull
Entries 86
Mean −62.09
Std Dev 0

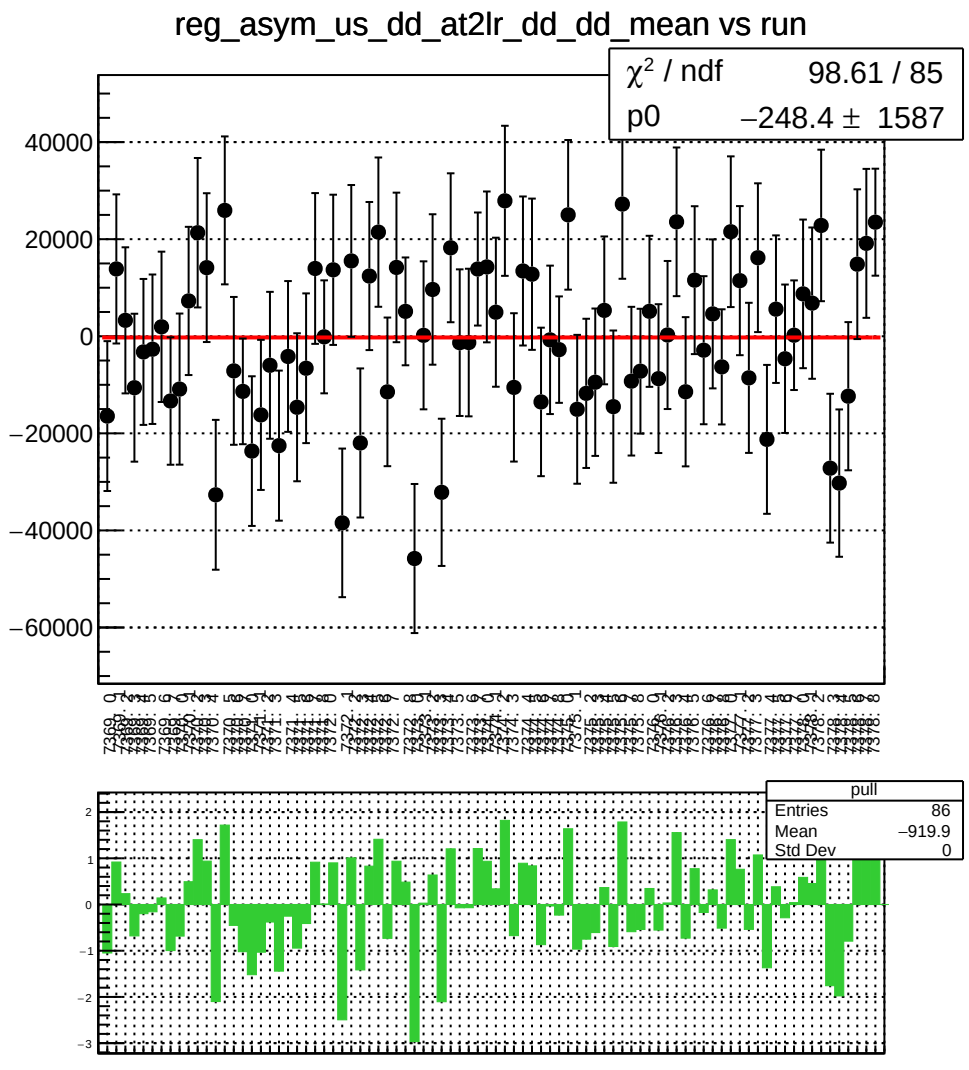

pull1D
Entries 86
Mean 0.01358
Std Dev 1.077

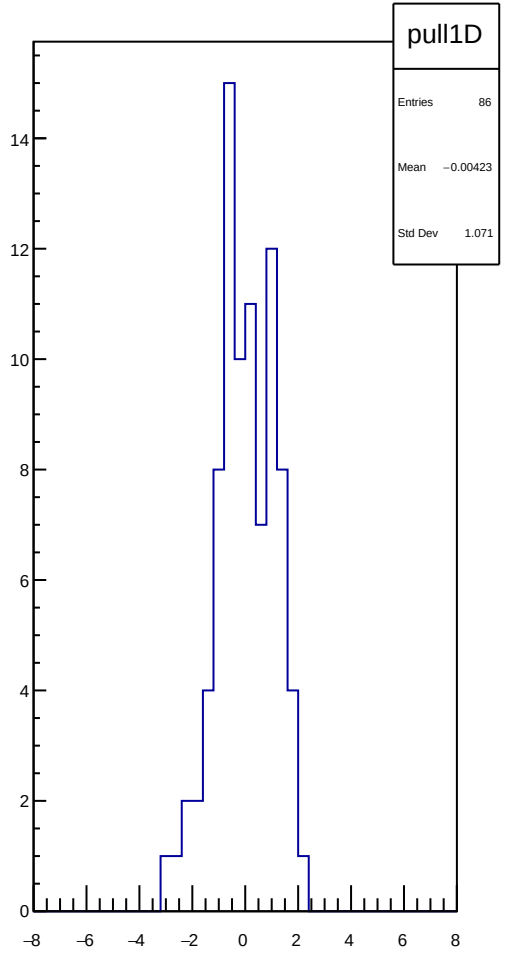

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.288e+04 / 85
p0 729.9 ± 0.568
1000
900
800
700
600
500

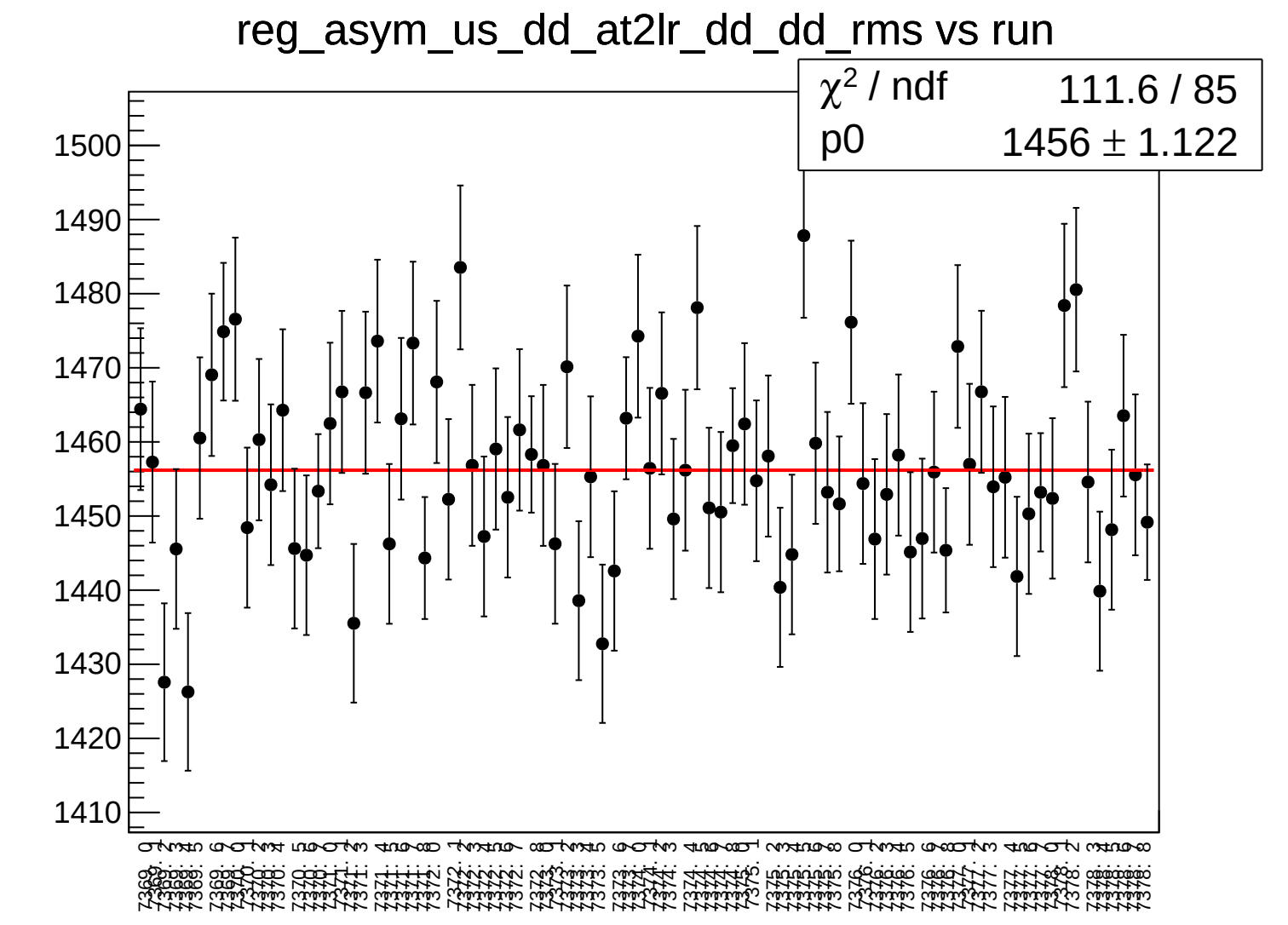

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.34 / 85
p0 −5.271e−15 ± 8.463e−15
pull
Entries 86
Mean 23.98
Std Dev 26.3

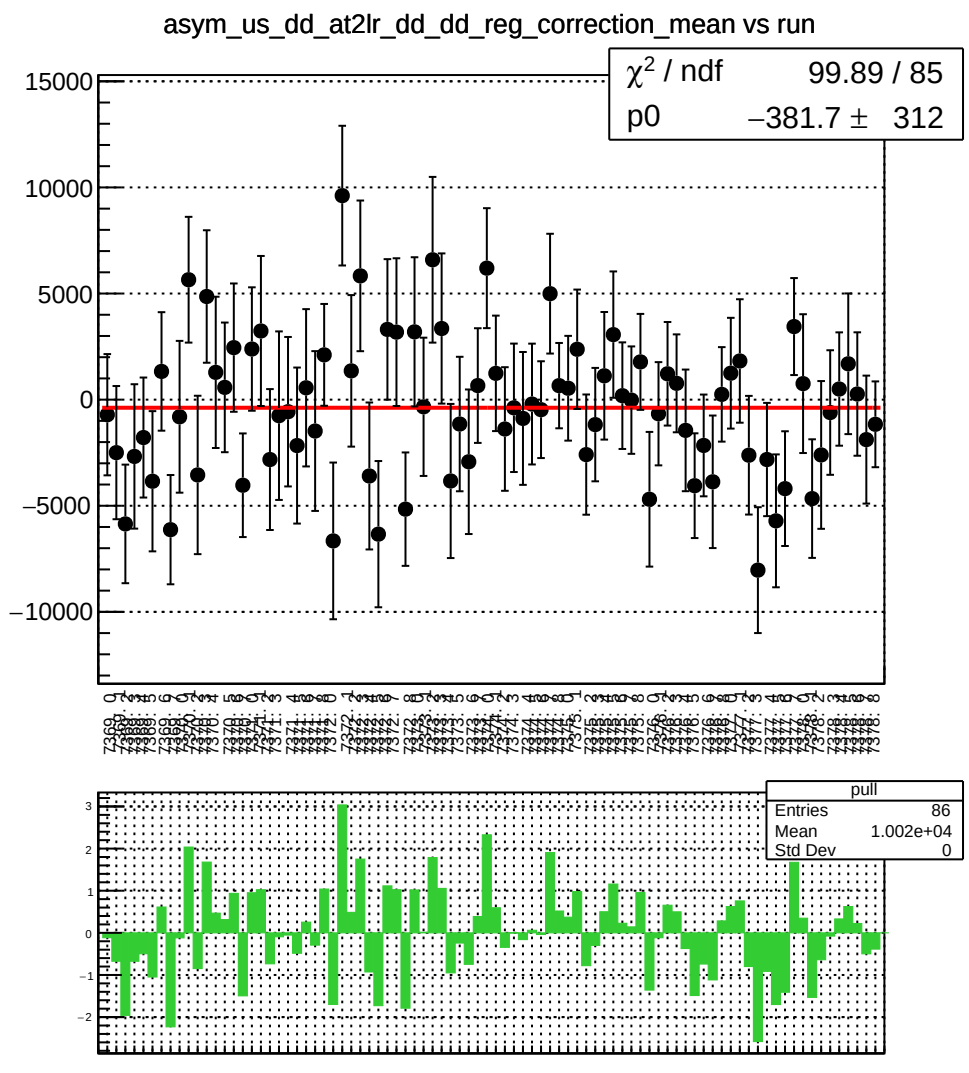

pull1D
Entries 86
Mean −0.05216
Std Dev 0.9591

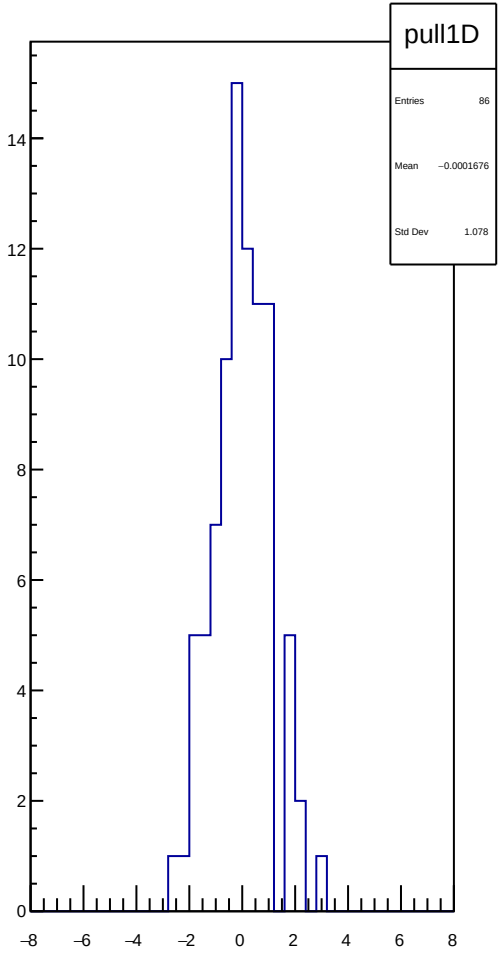

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.037e+06 / 85
p0 4.814e−12 ± 5.984e−15
90
80
70
60
50
40
30
20
10

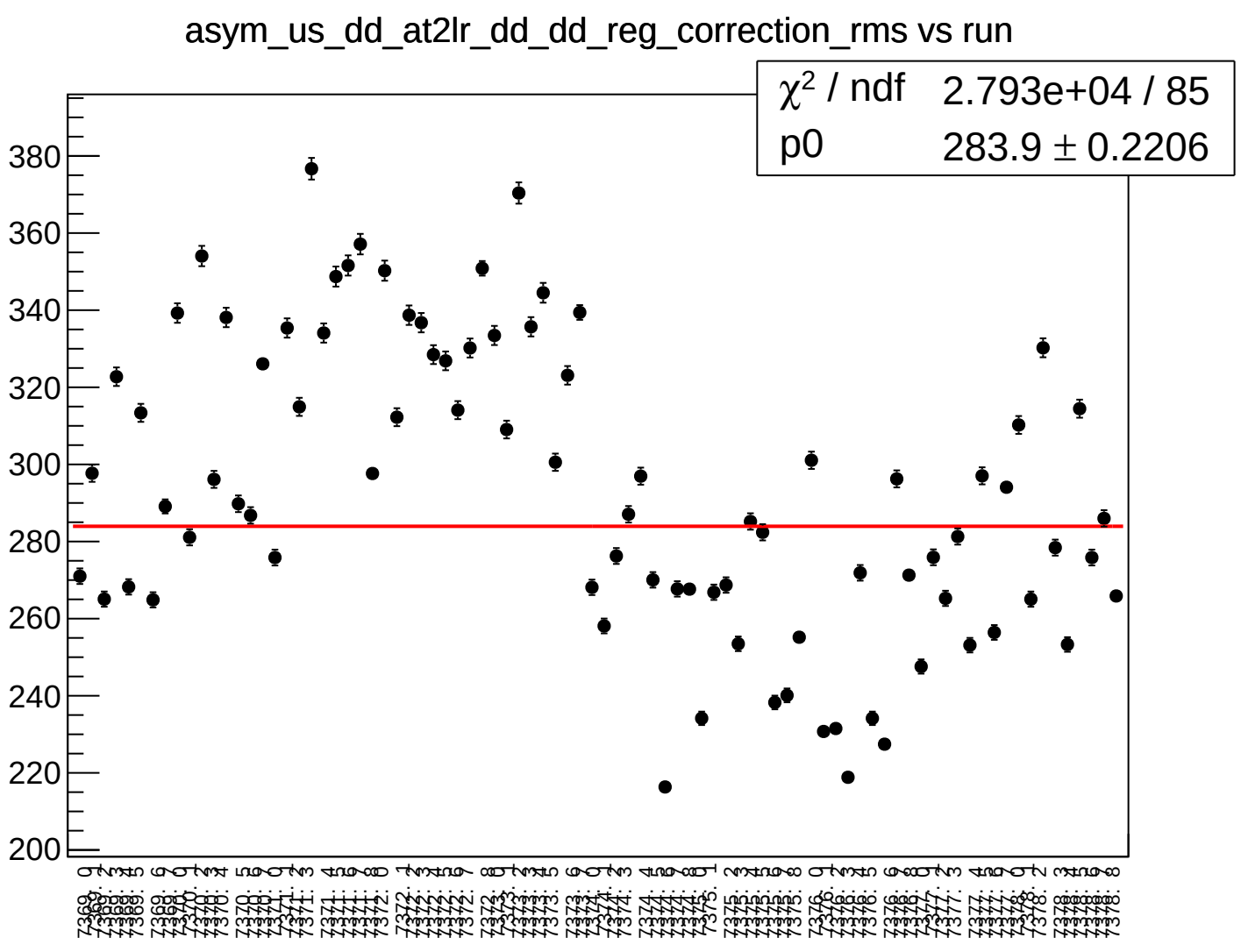

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.61 / 85
p0 −248.4 ± 1587
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −919.9
Std Dev 0
2
1
0
−1
−2
−3

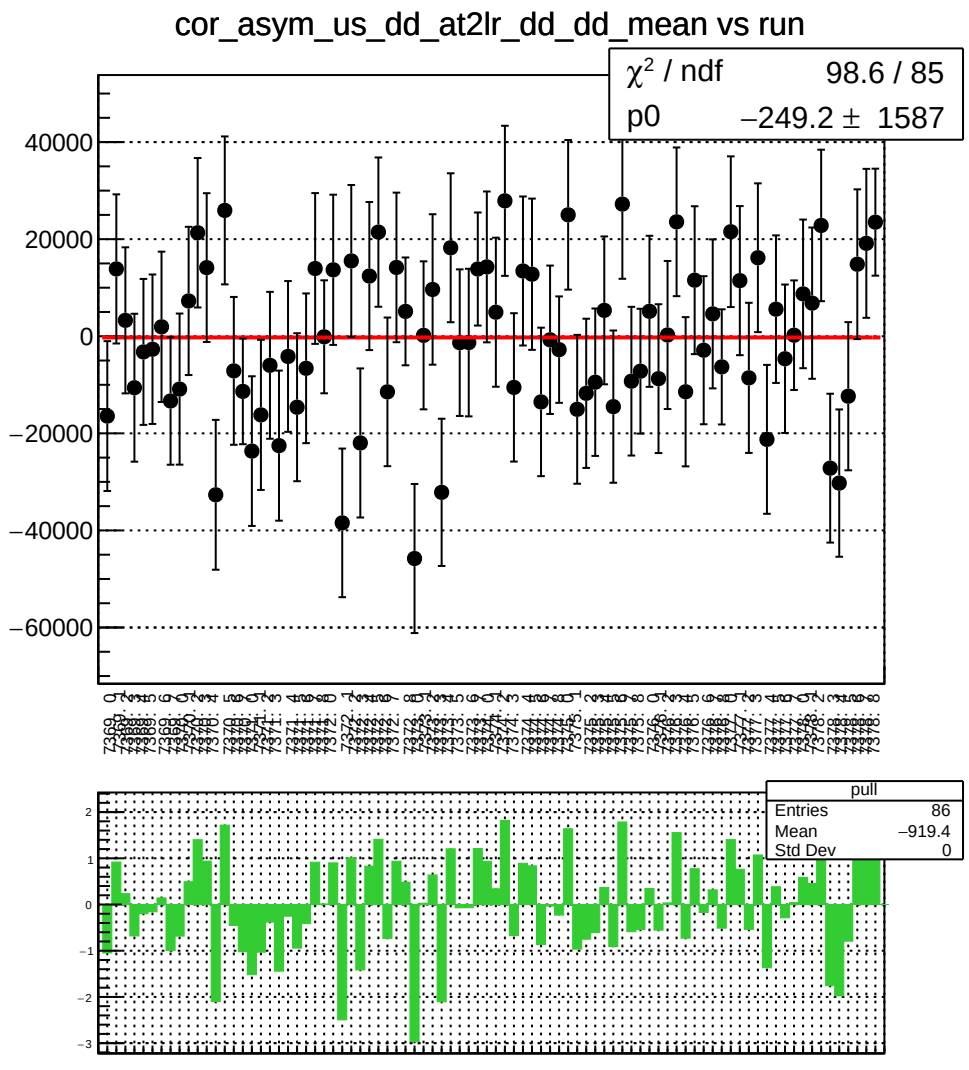

pull1D
Entries 86
Mean −0.00423
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

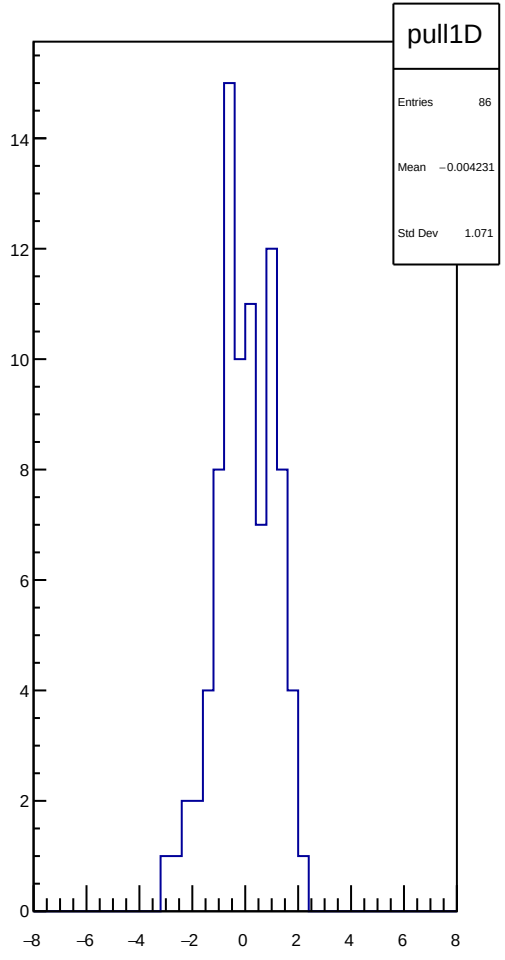

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 111.6 / 85
p0 1456 ± 1.122
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410

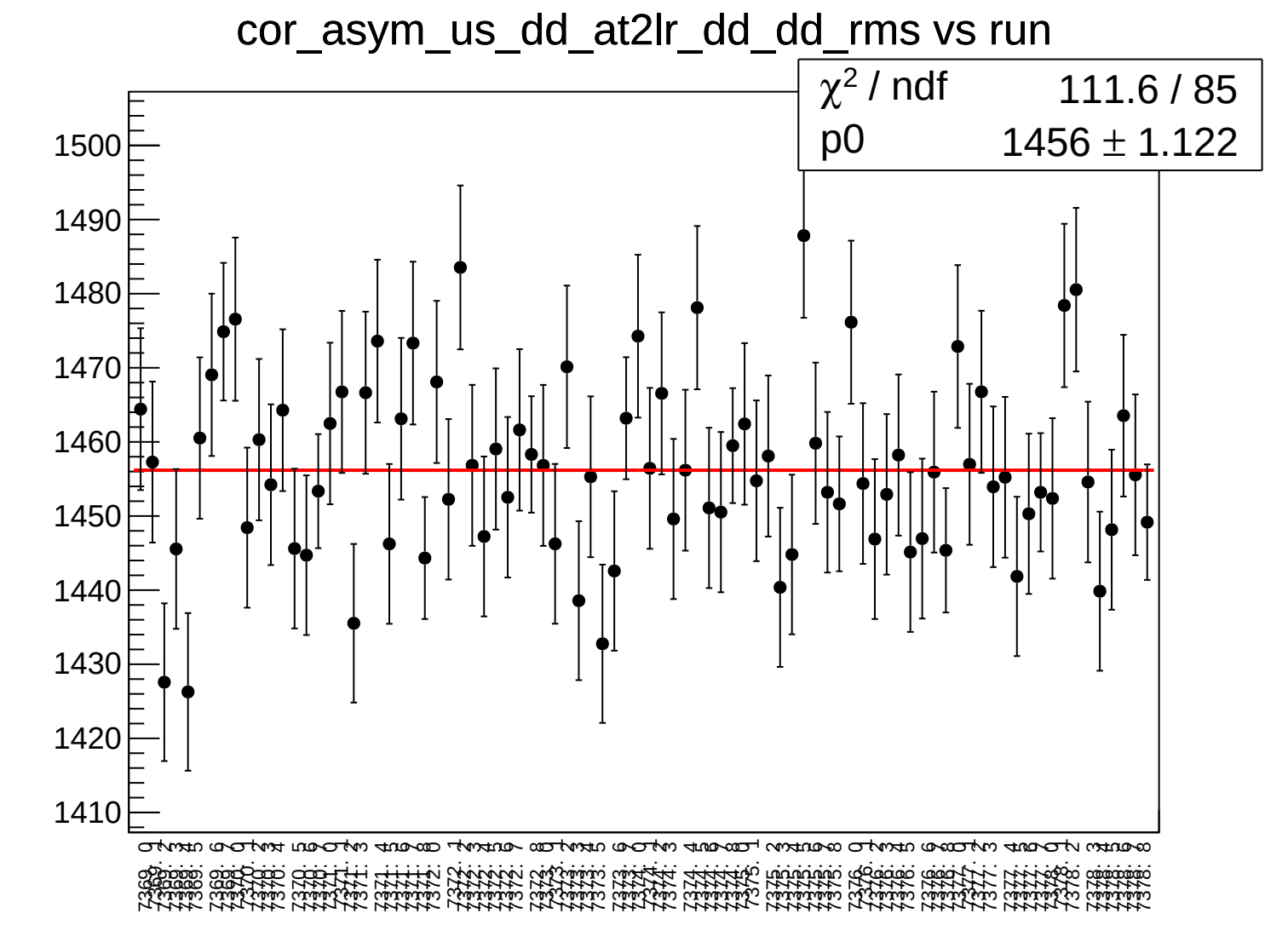

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 99.89 / 85
p0 −381.7 ± 312
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 1.002e+04
Std Dev 0
3
2
1
0
−1
−2

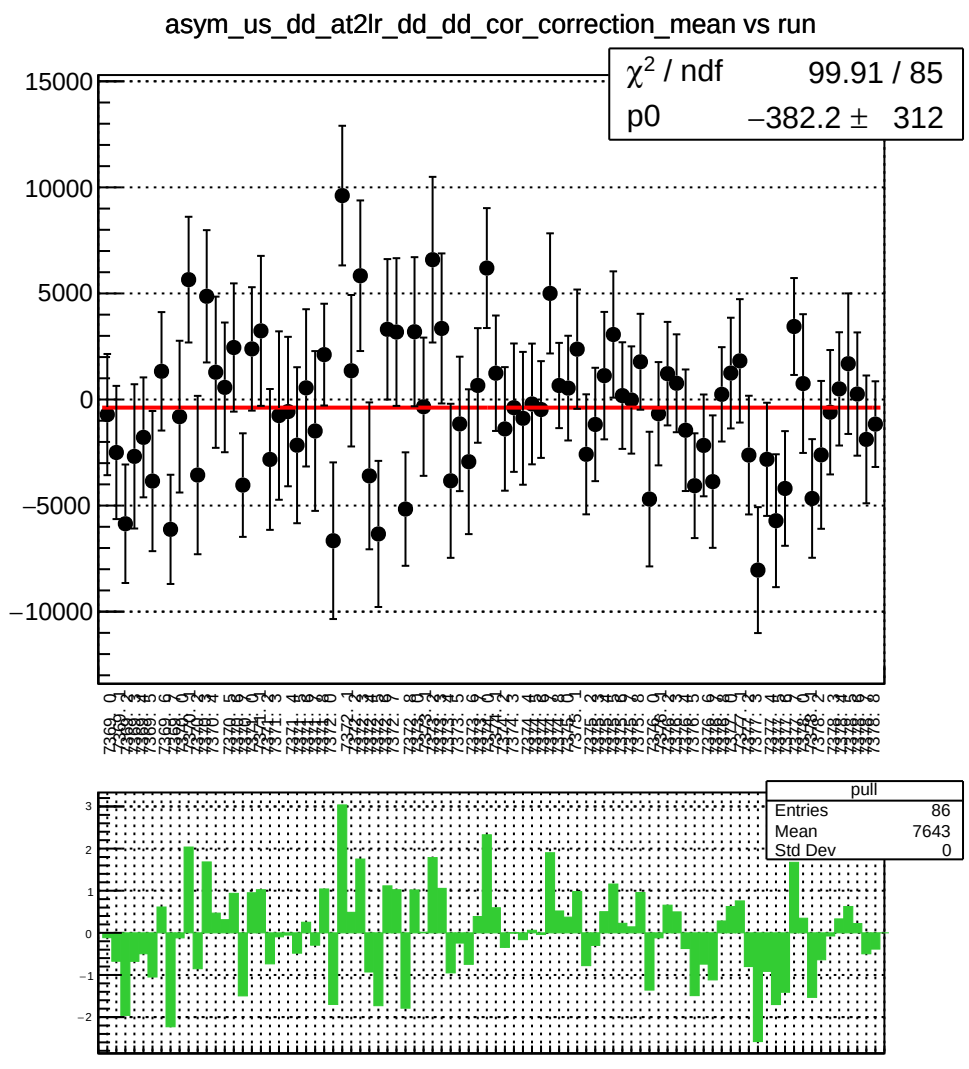

pull1D
Entries 86
Mean −0.0001676
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

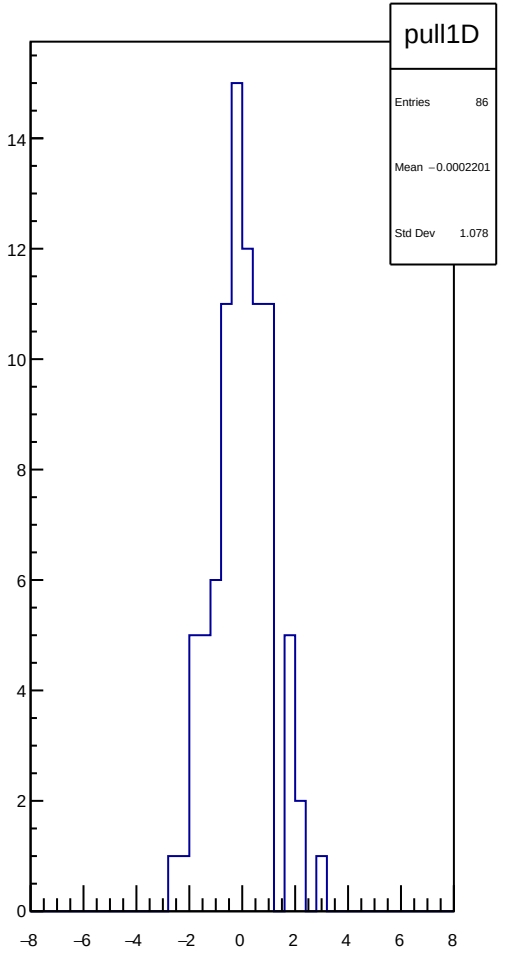

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.793e+04 / 85
p0 283.9 ± 0.2206
380
360
340
320
300
280
260
240
220
200

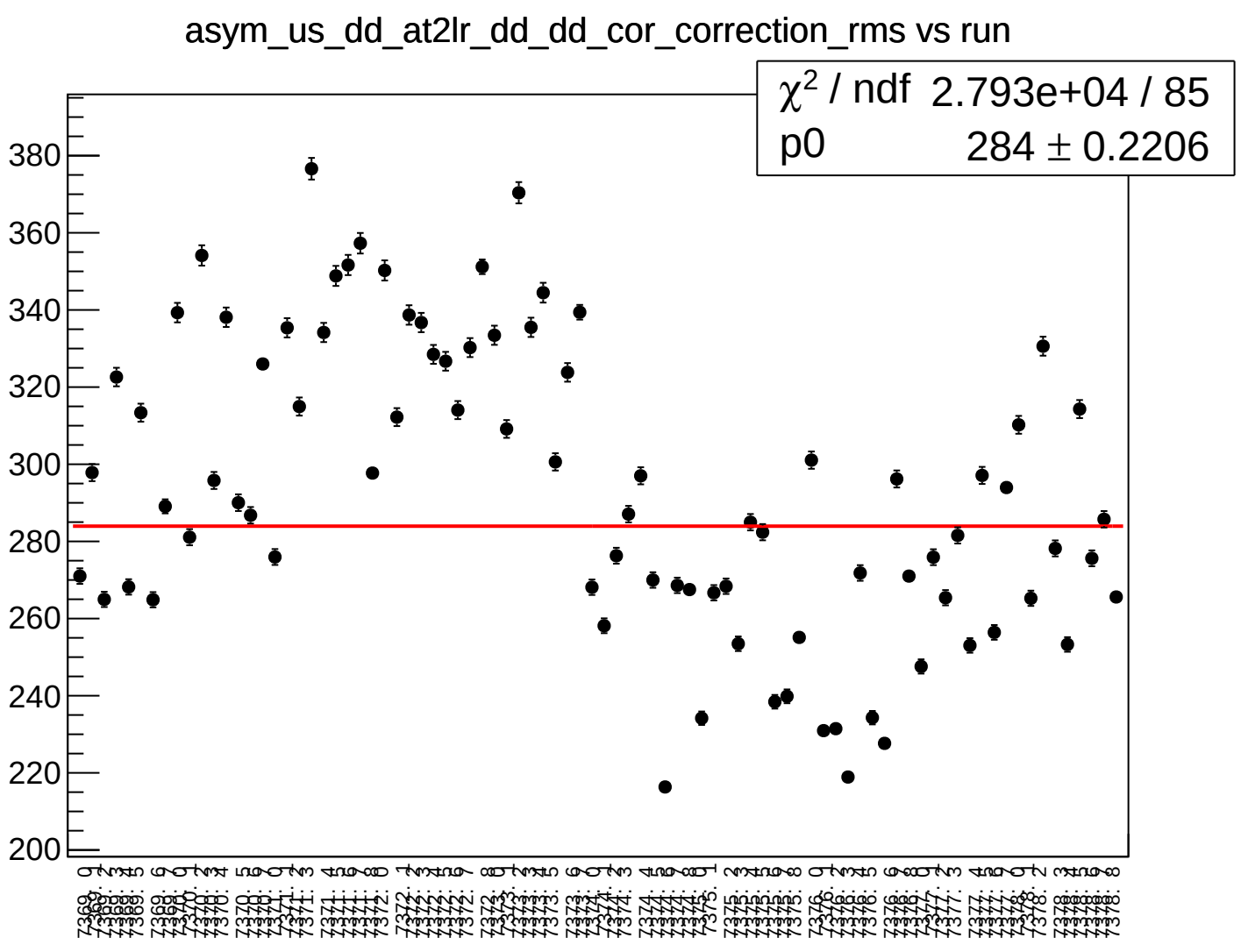

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.6 / 85
p0 −249.2 ± 1587
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −919.4
Std Dev 0
2
1
0
−1
−2
−3

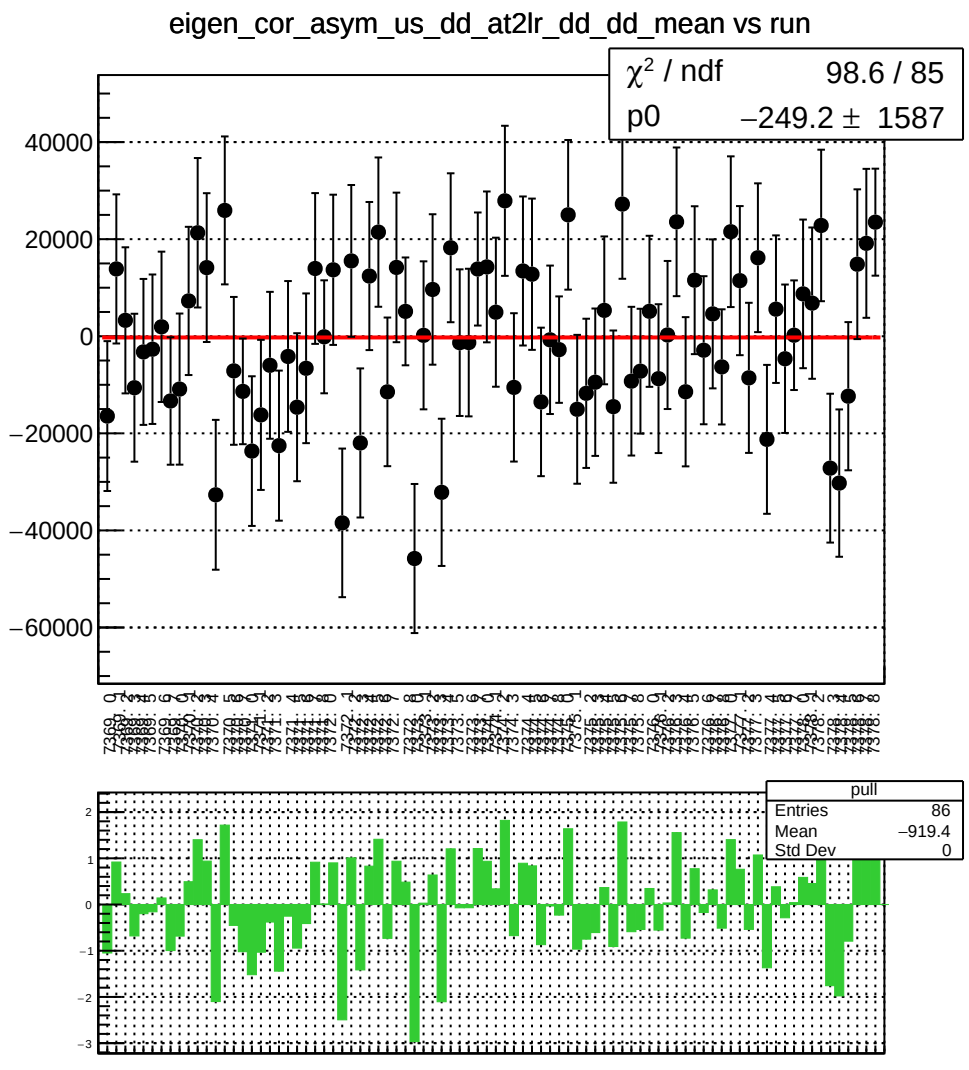

pull1D
Entries 86
Mean −0.004231
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

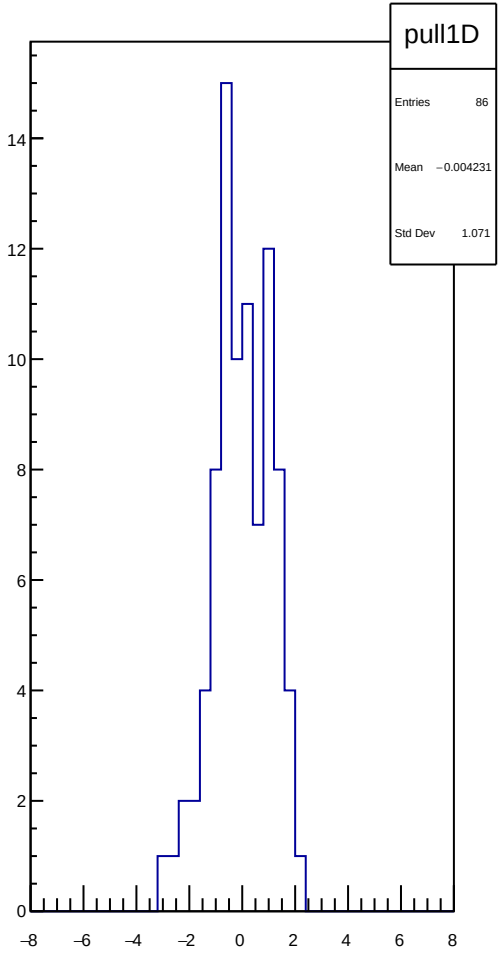

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 111.6 / 85
p0 1456 ± 1.122
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410

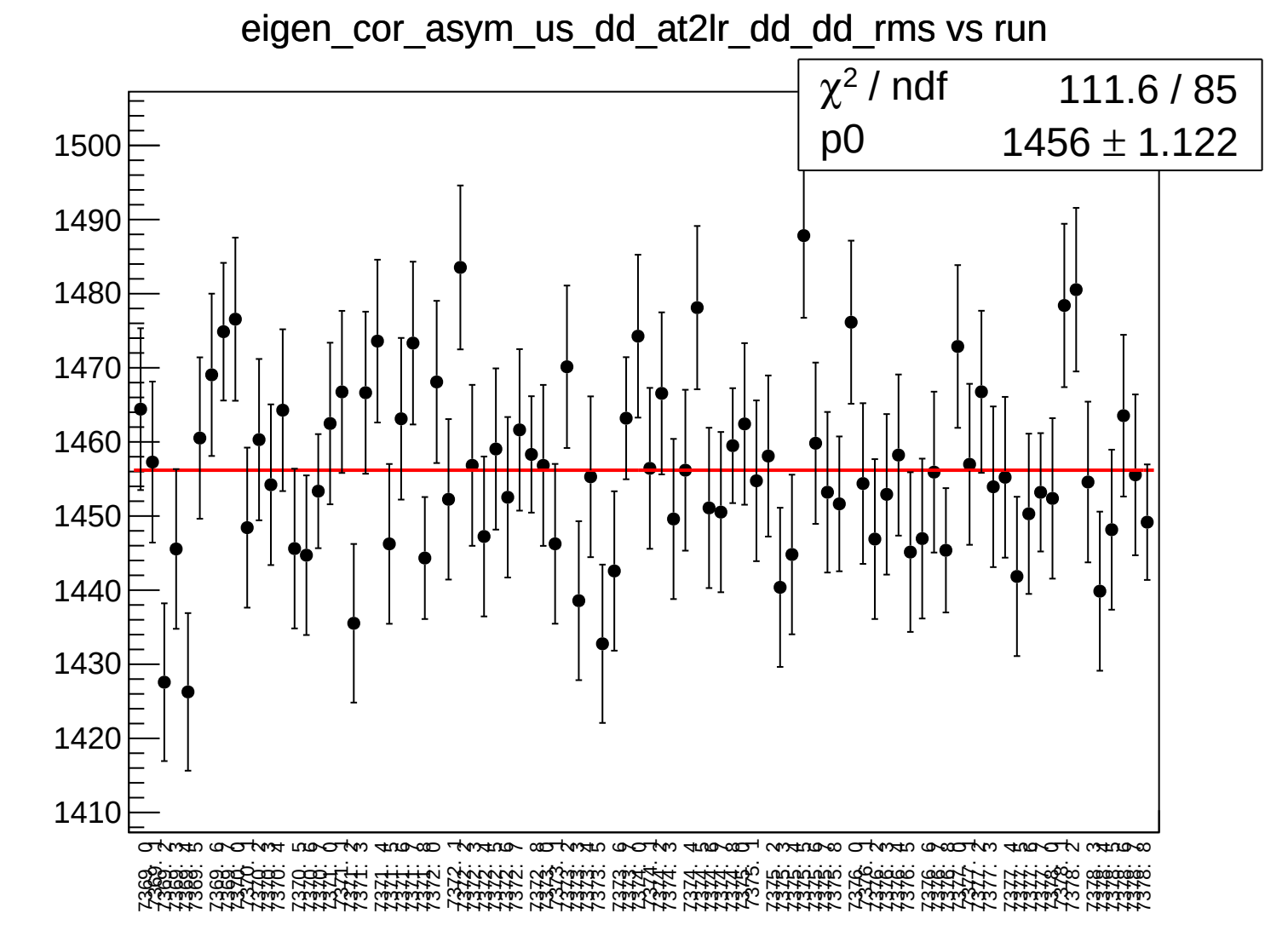

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 99.91 / 85
p0 −382.2 ± 312
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 7643
Std Dev 0
3
2
1
0
−1
−2

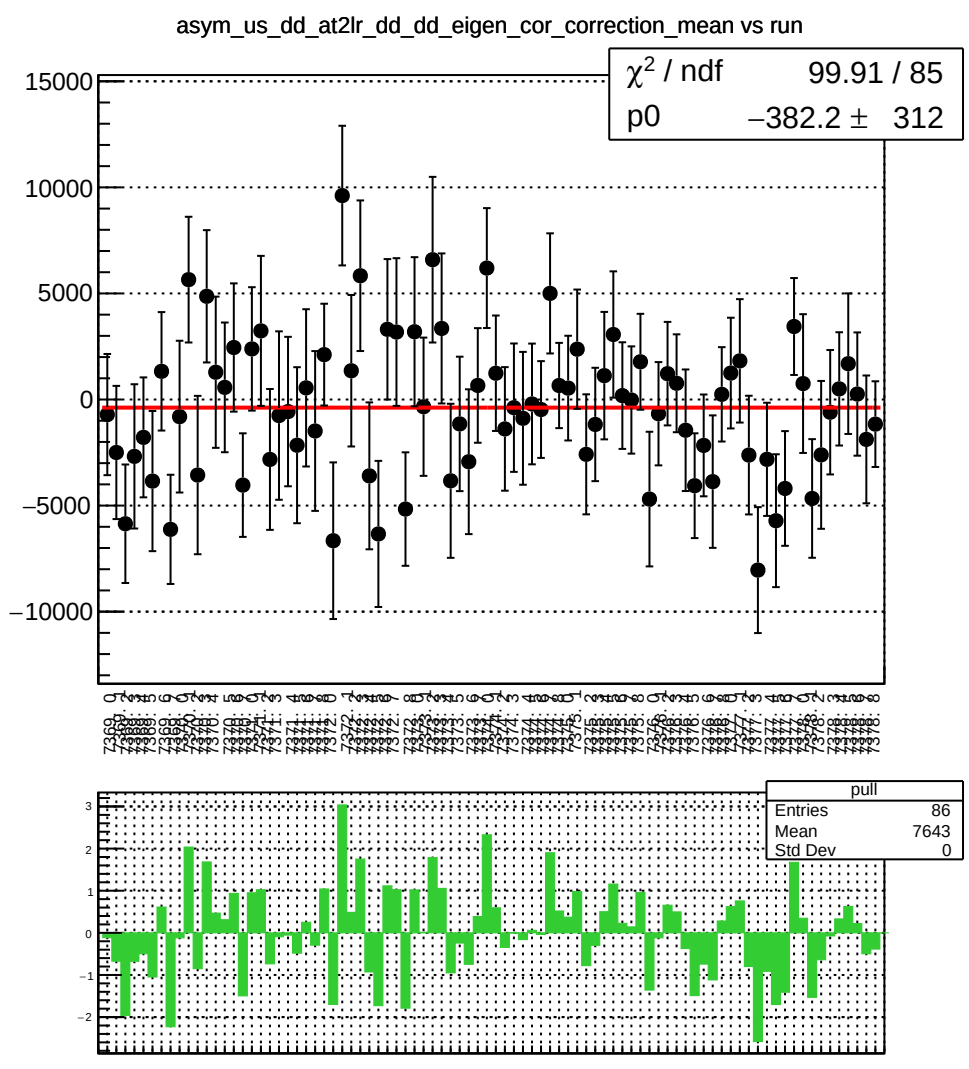

pull1D
Entries 86
Mean −0.0002201
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

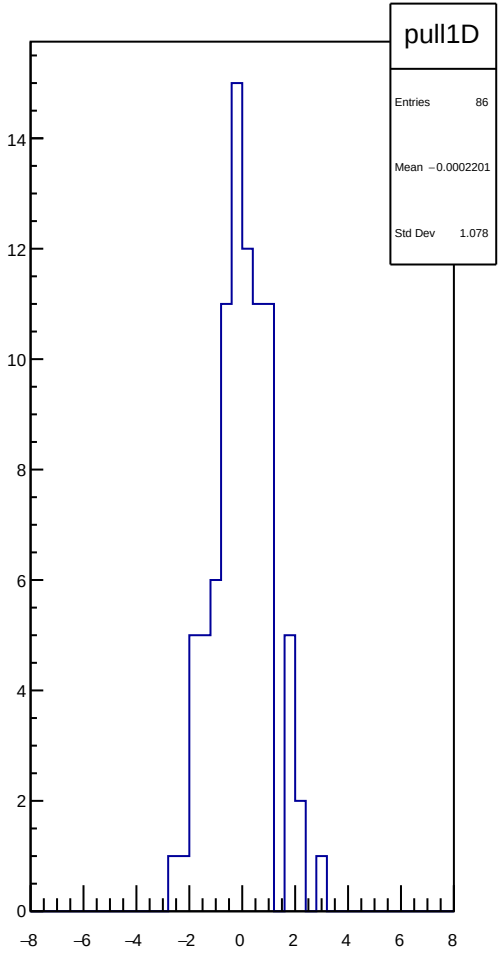

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.793e+04 / 85
p0 284 ± 0.2206
380
360
340
320
300
280
260
240
220
200

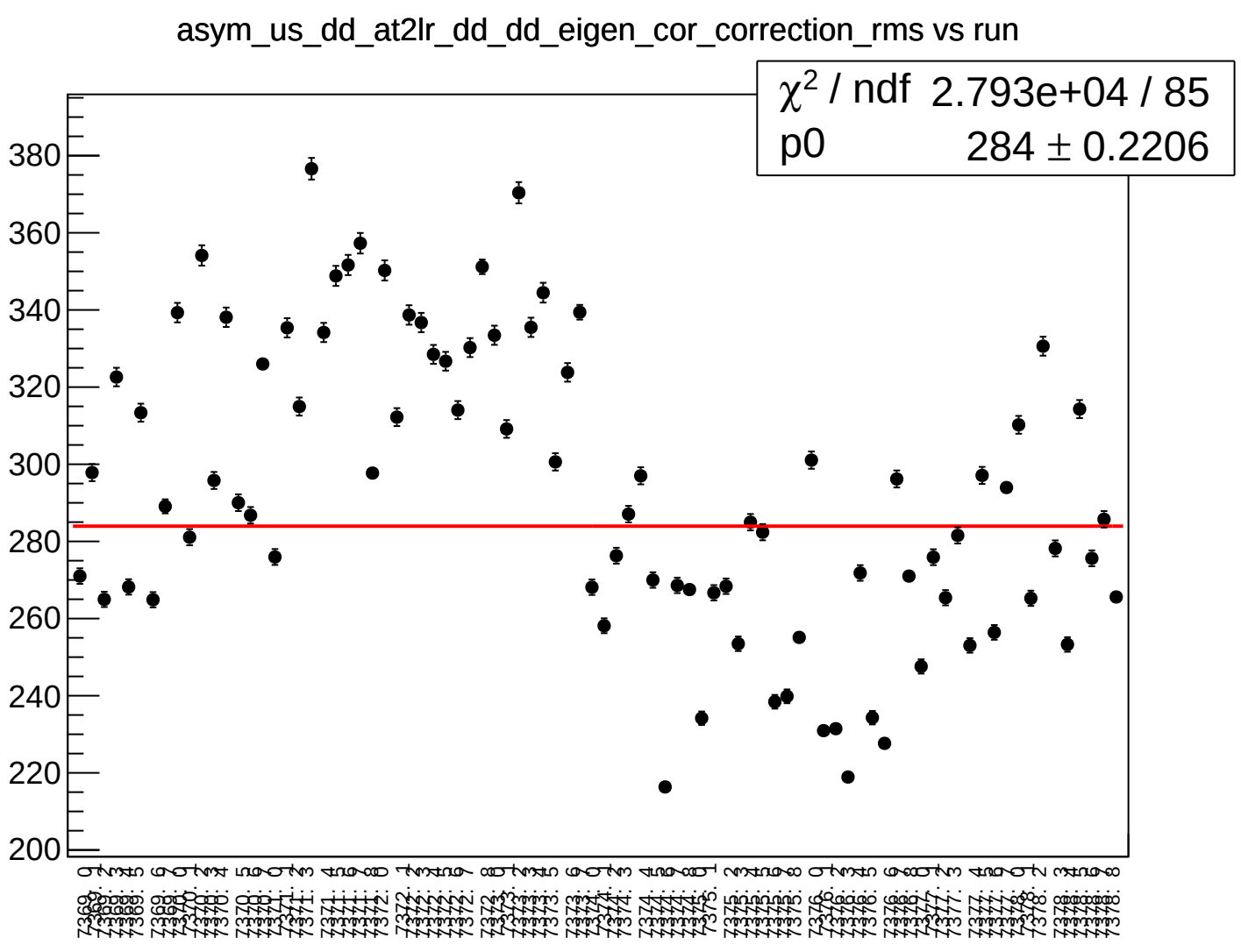

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.6 / 85
p0 −249.2 ± 1587
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −919.4
Std Dev 0
2
1
0
−1
−2
−3

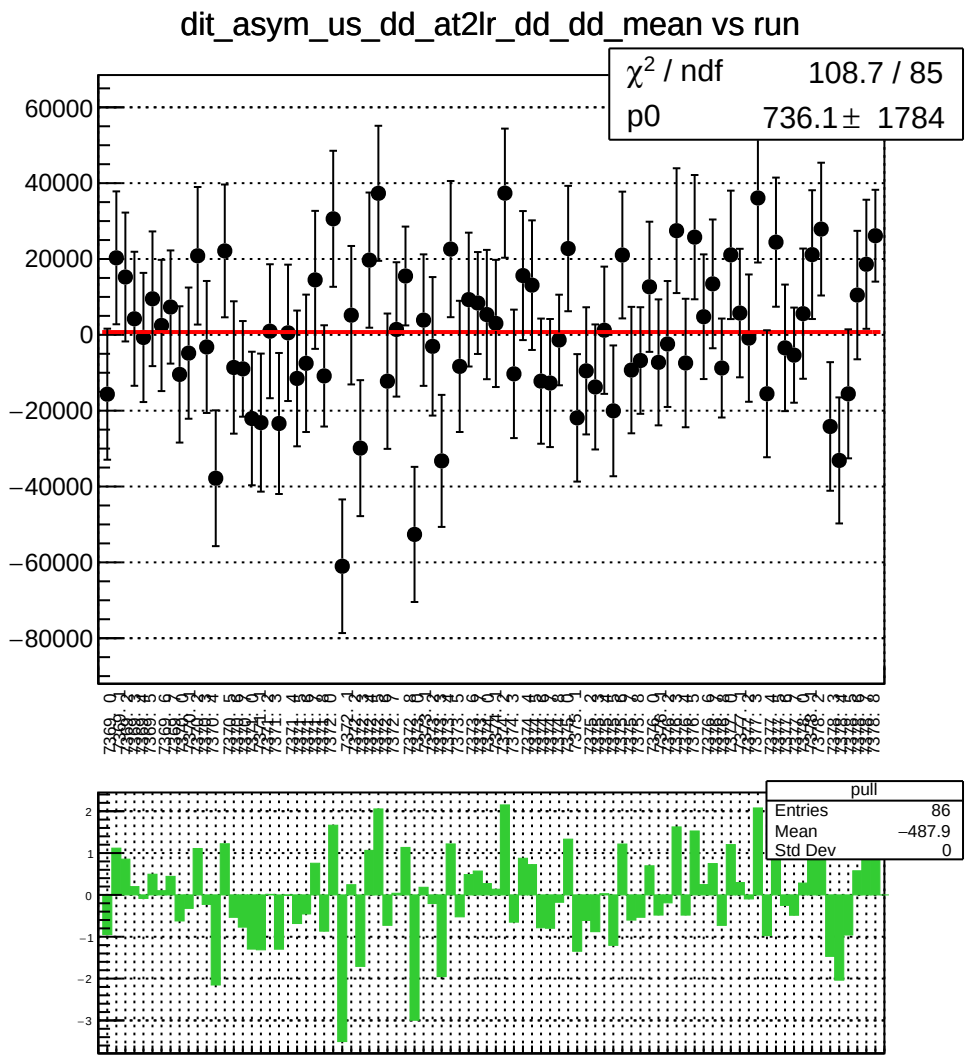

pull1D
Entries 86
Mean −0.004231
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

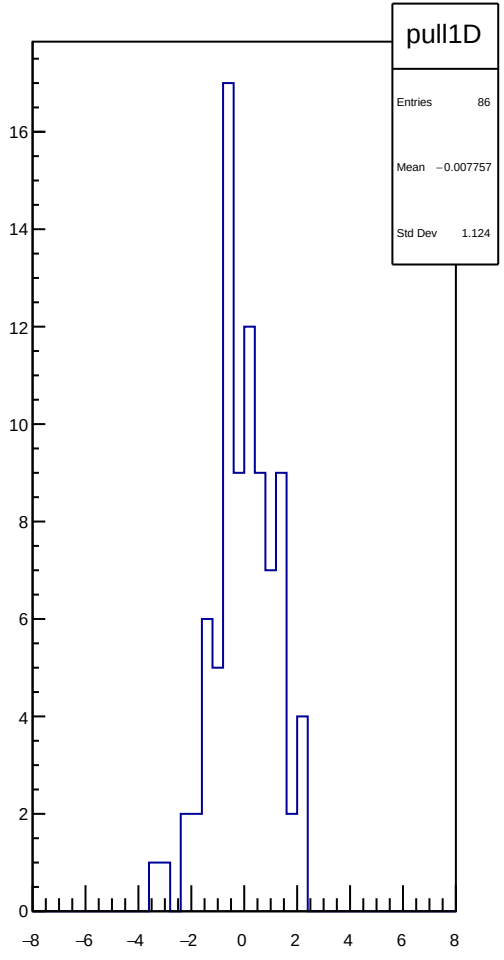

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 111.6 / 85
p0 1456 ± 1.122
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410

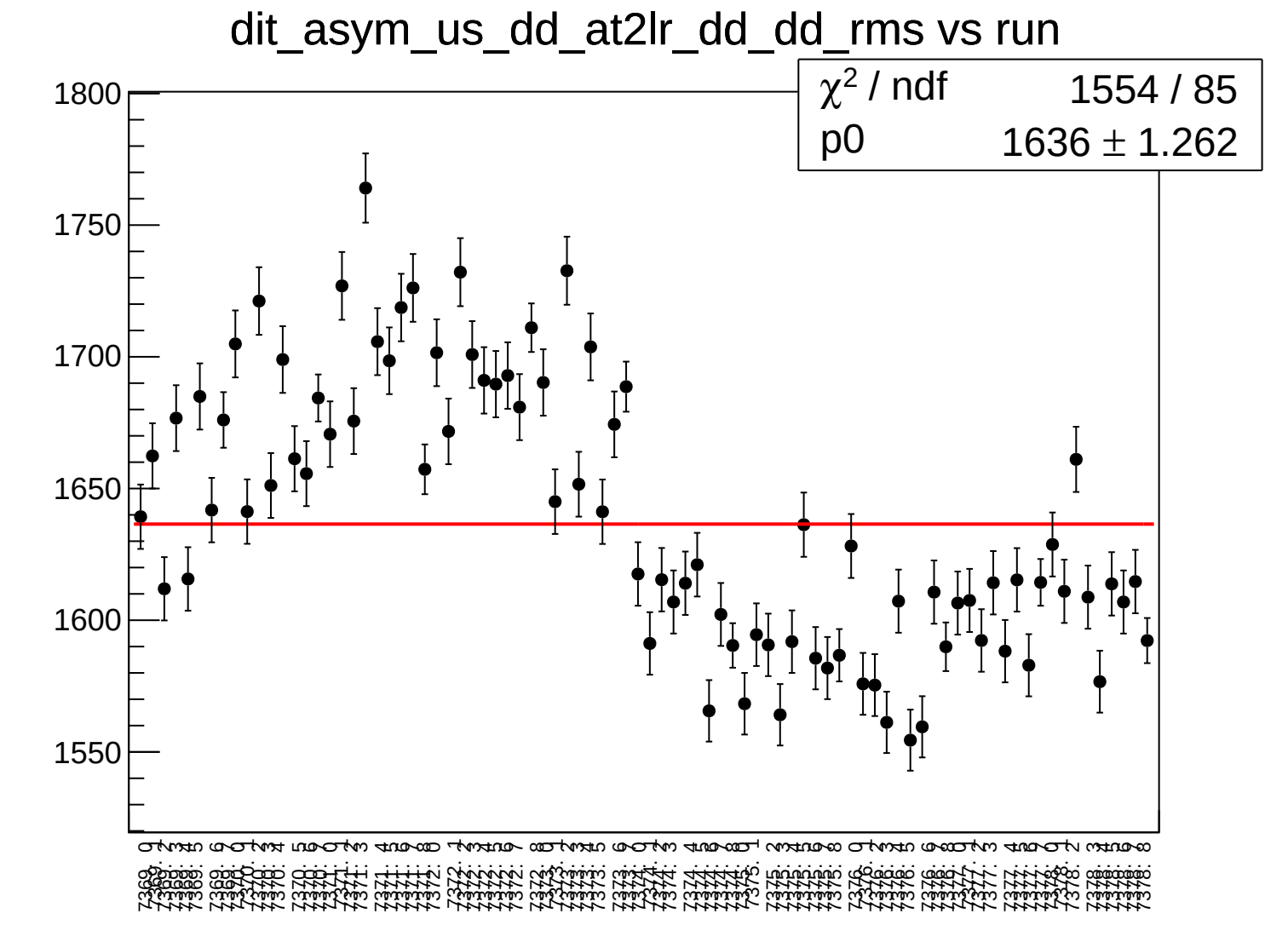

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.91 / 85
p0 −382.2 ± 312
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 7643
Std Dev 0
3
2
1
0
−1
−2

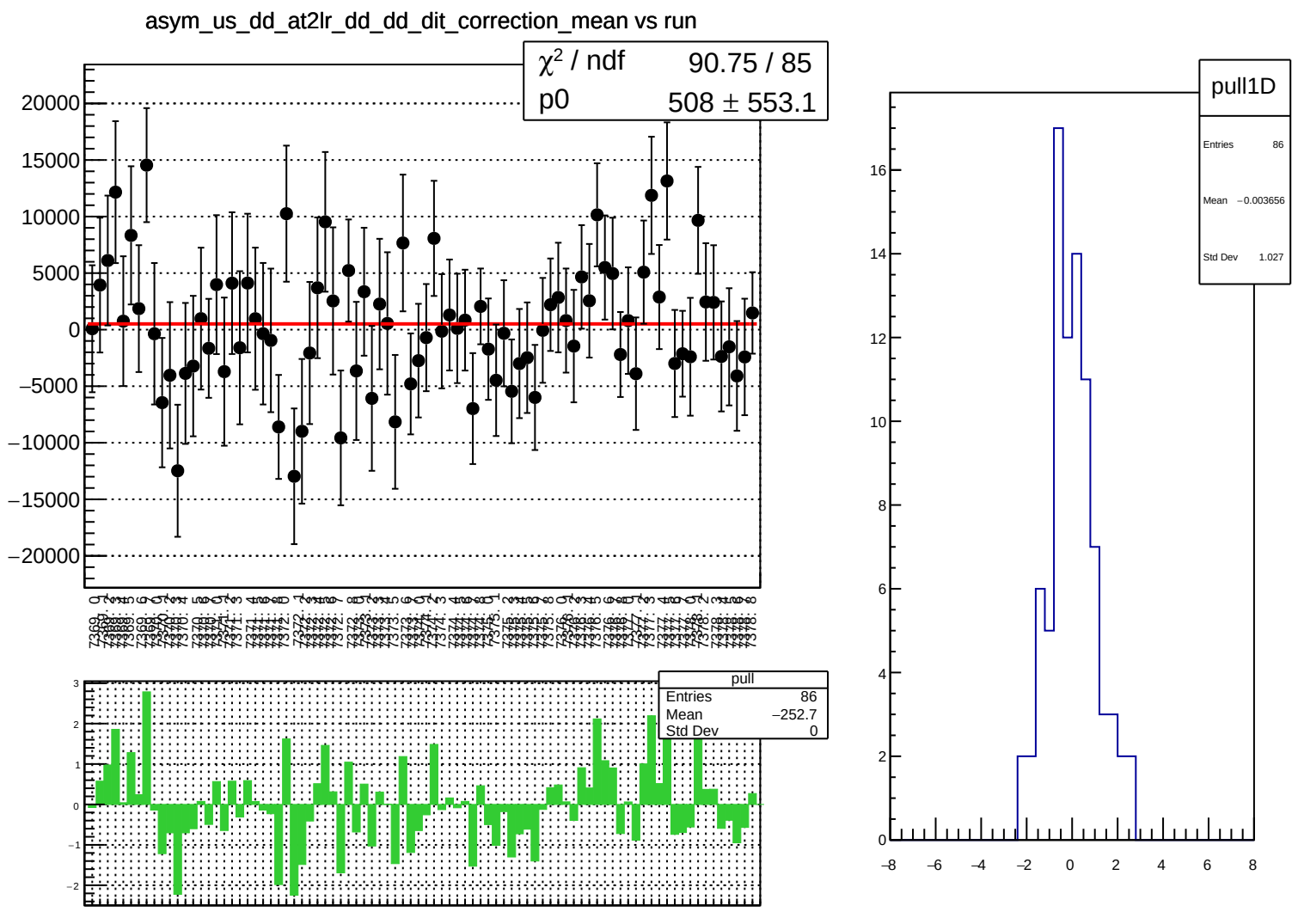

pull1D
Entries 86
Mean −0.0002201
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

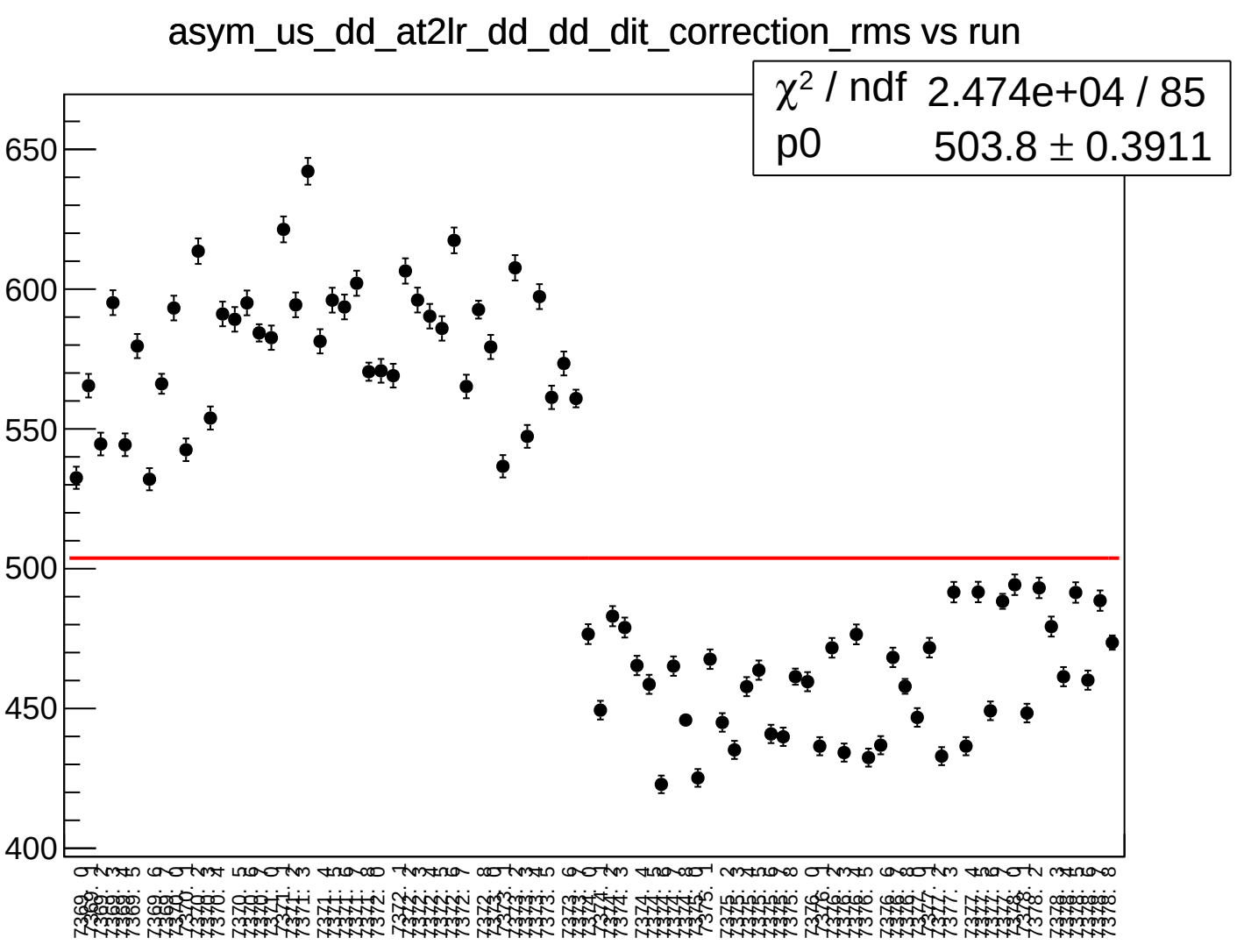

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.793e+04 / 85
p0 284 ± 0.2206
380
360
340
320
300
280
260
240
220
200

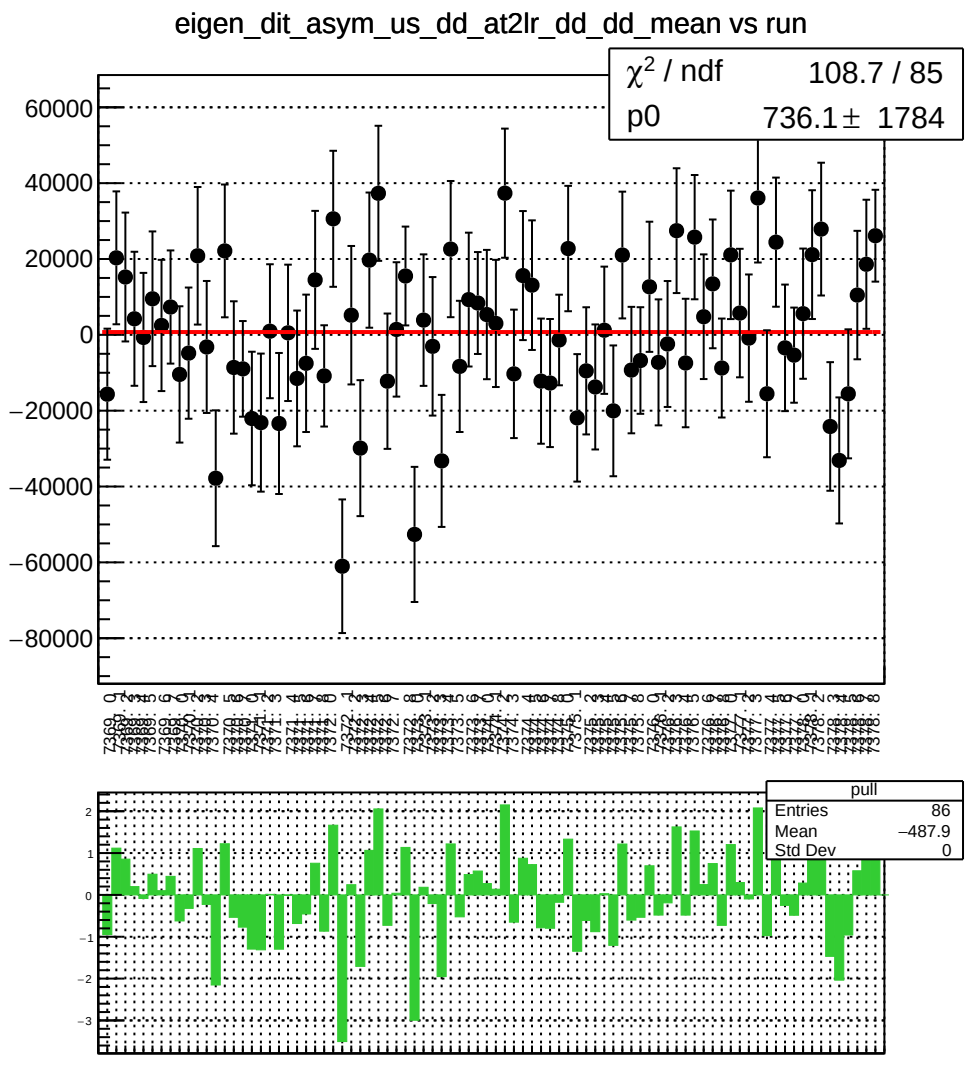

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 108.7 / 85
p0 736.1 ± 1784
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −487.9
Std Dev 0
2
1
0
−1
−2
−3

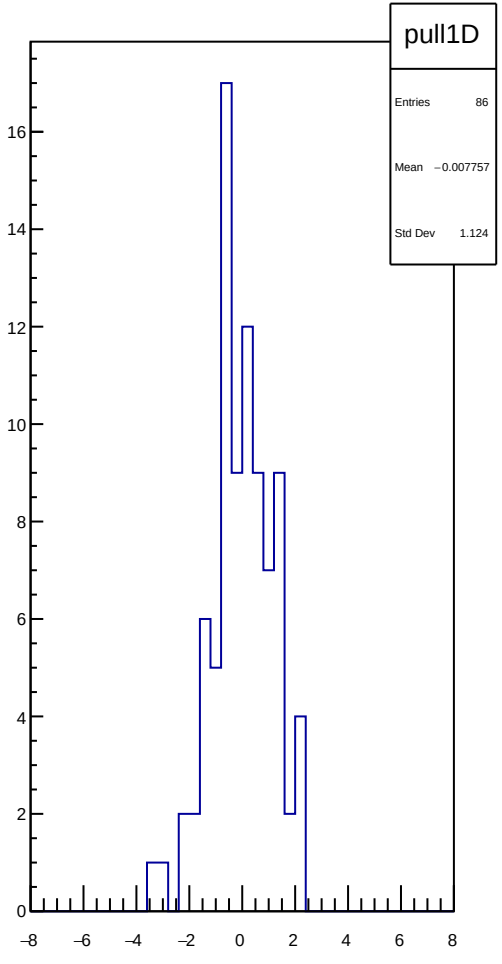

pull1D
Entries 86
Mean −0.007757
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

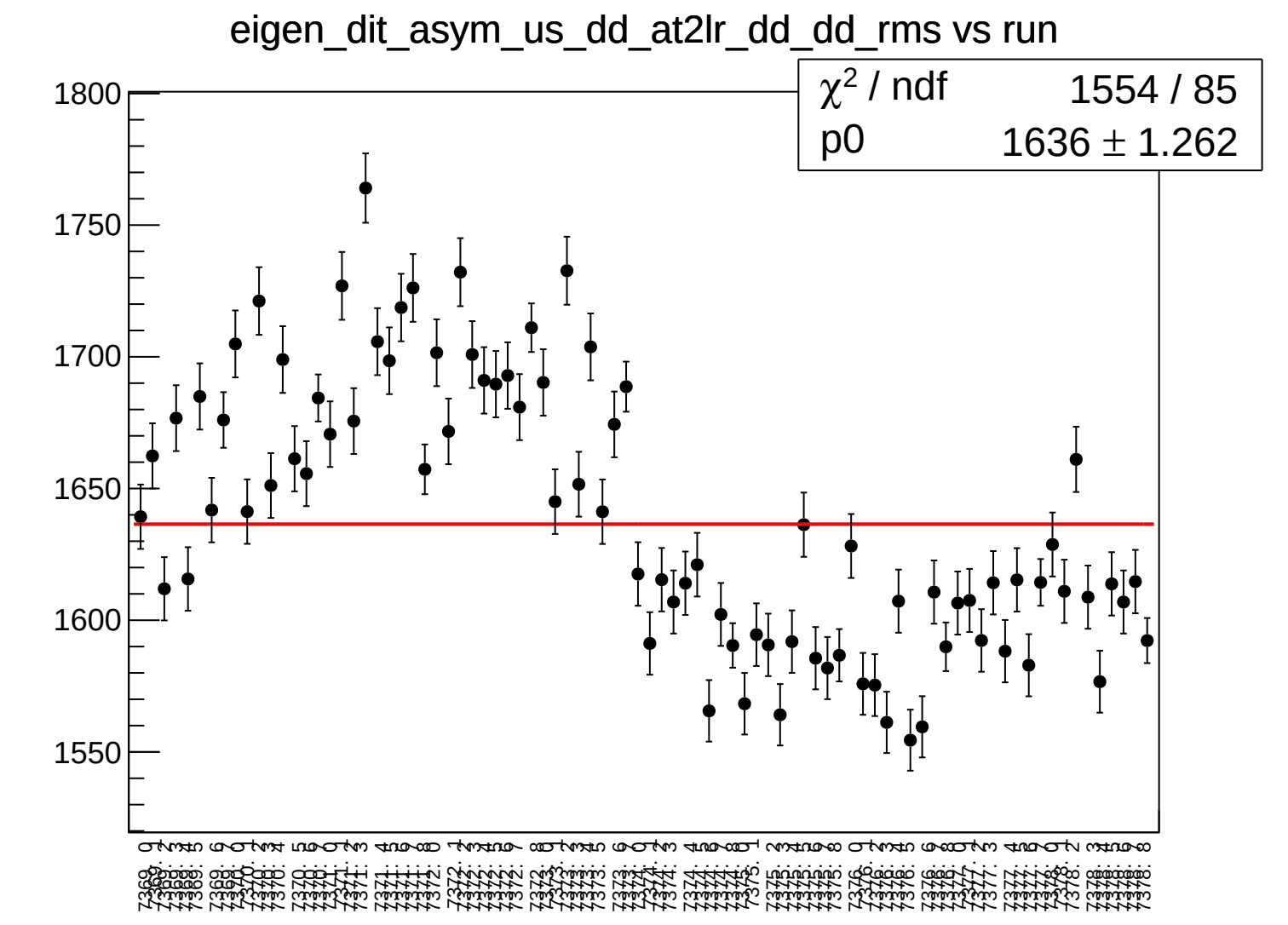

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1554 / 85
p0 1636 ± 1.262
1800
1750
1700
1650
1600
1550

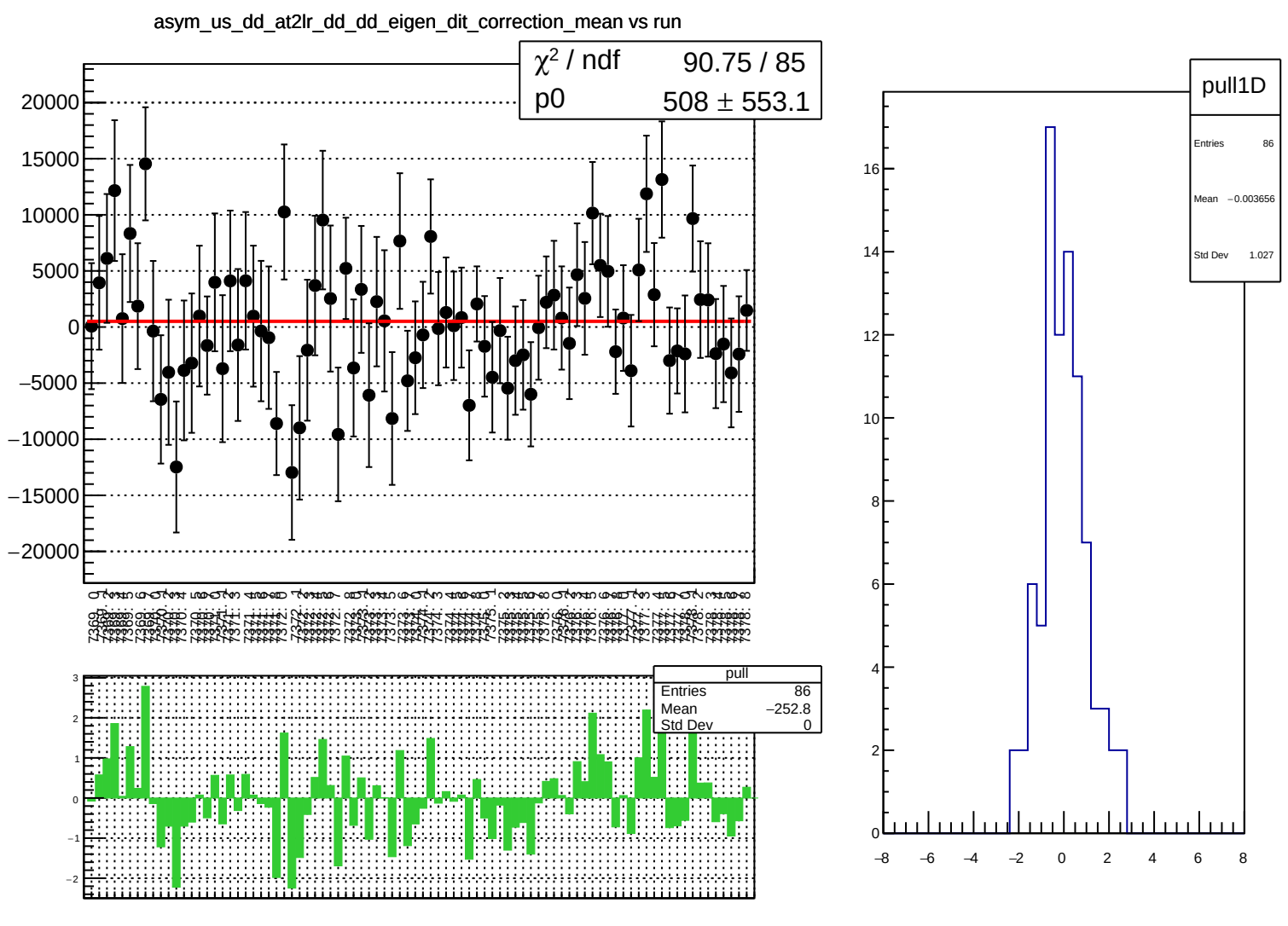

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 90.75 / 85
p0 508 ± 553.1
pull
Entries 86
Mean −252.7
Std Dev 0
pull1D
Entries 86
Mean −0.003656
Std Dev 1.027

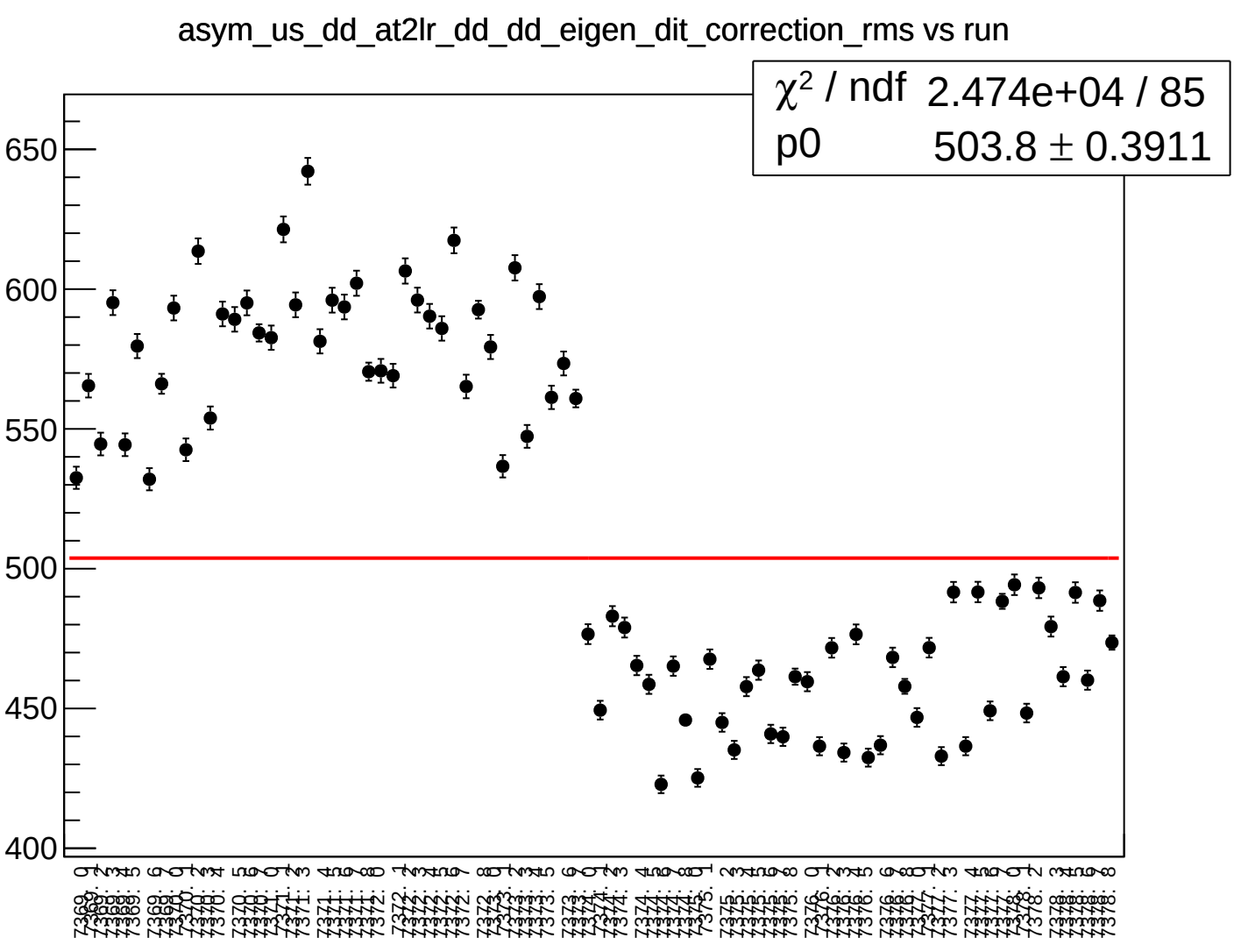

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.474e+04 / 85
p0 503.8 ± 0.3911
650
600
550
500
450
400

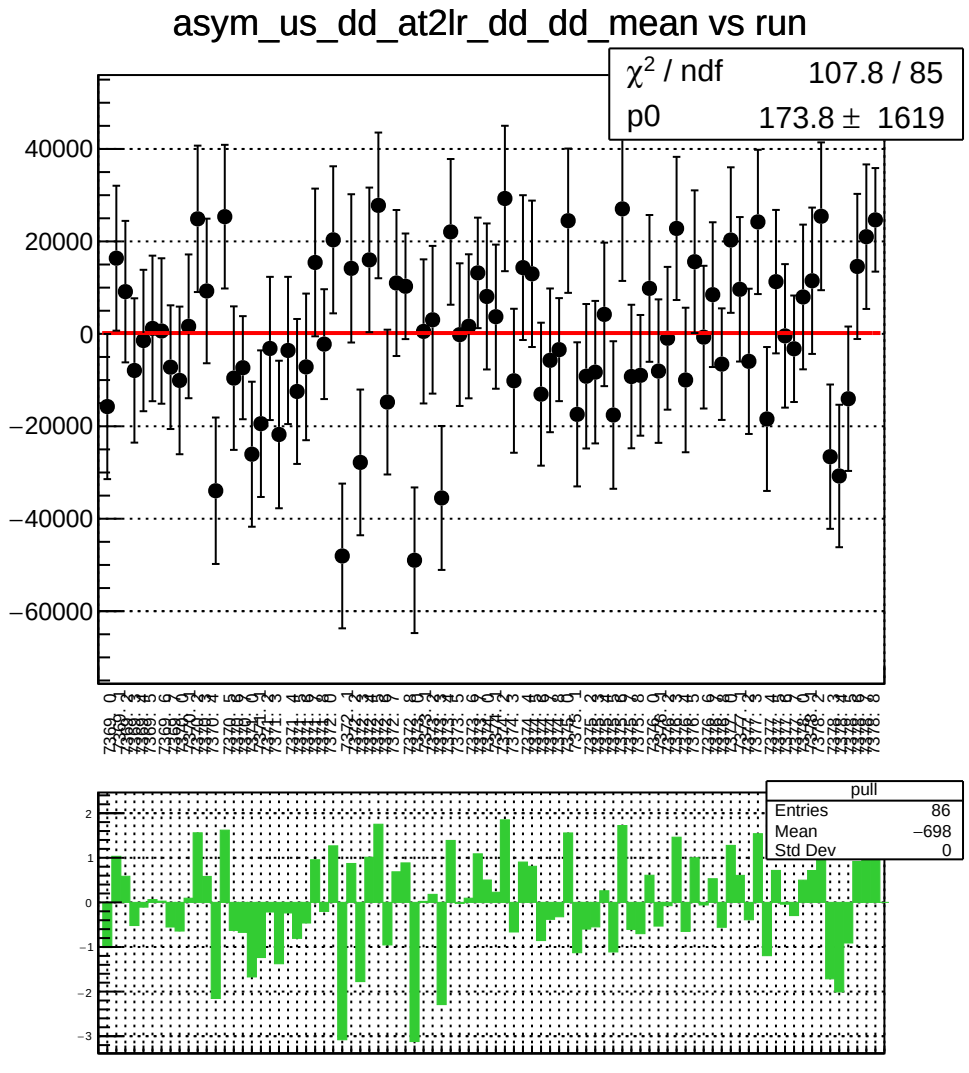

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 108.7 / 85
p0 736.1 ± 1784
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −487.9
Std Dev 0
2
1
0
−1
−2
−3

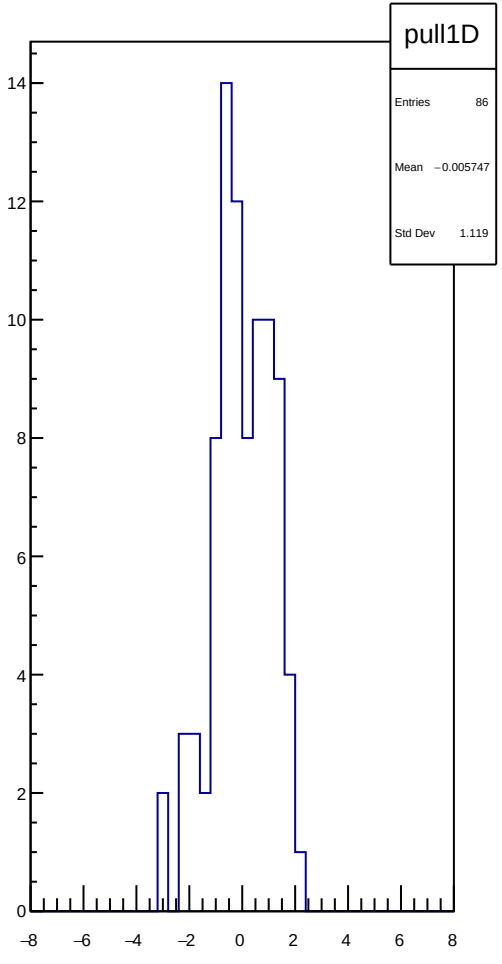

pull1D
Entries 86
Mean −0.007757
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

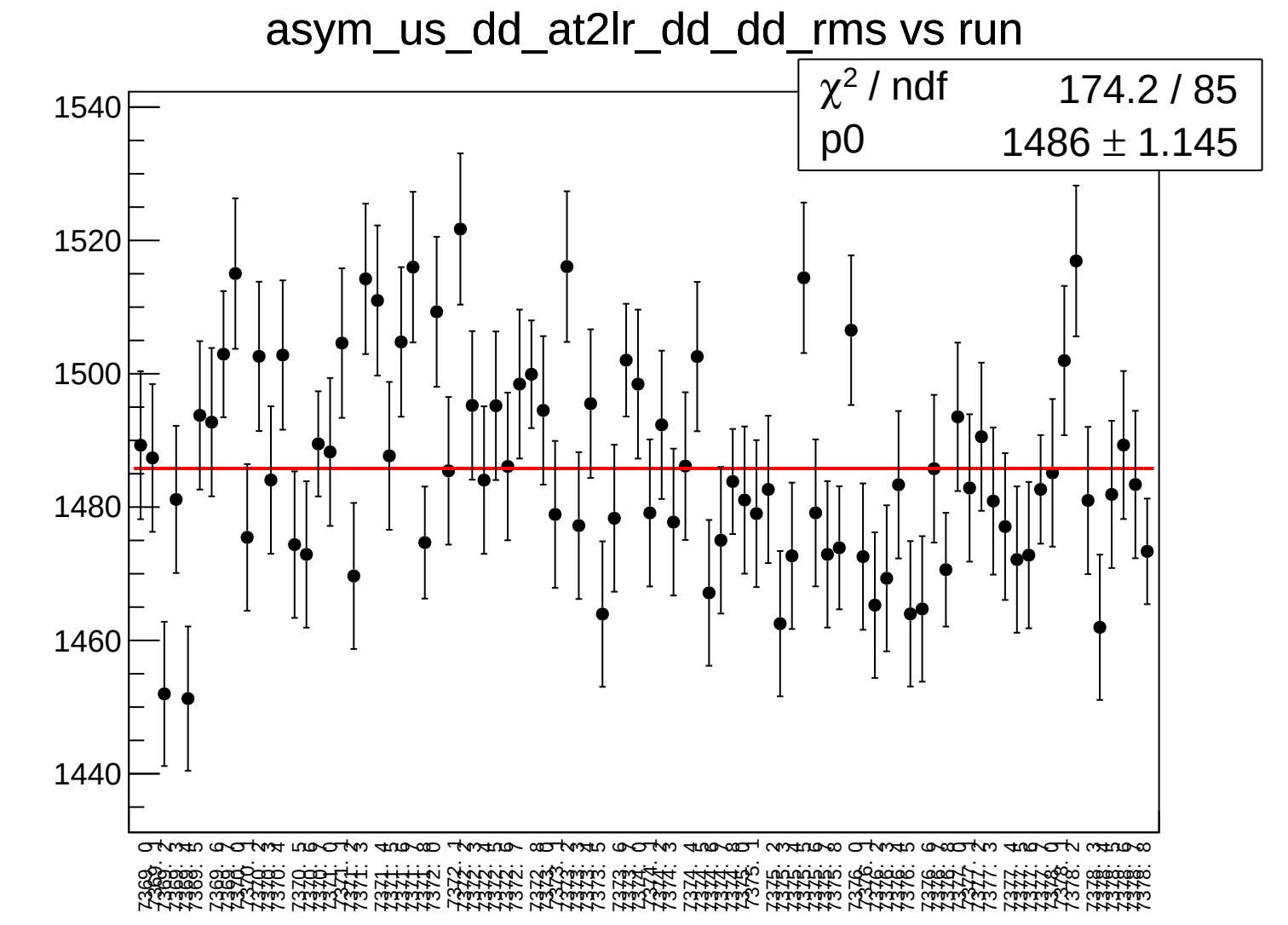

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1554 / 85
p0 1636 ± 1.262
1800
1750
1700
1650
1600
1550

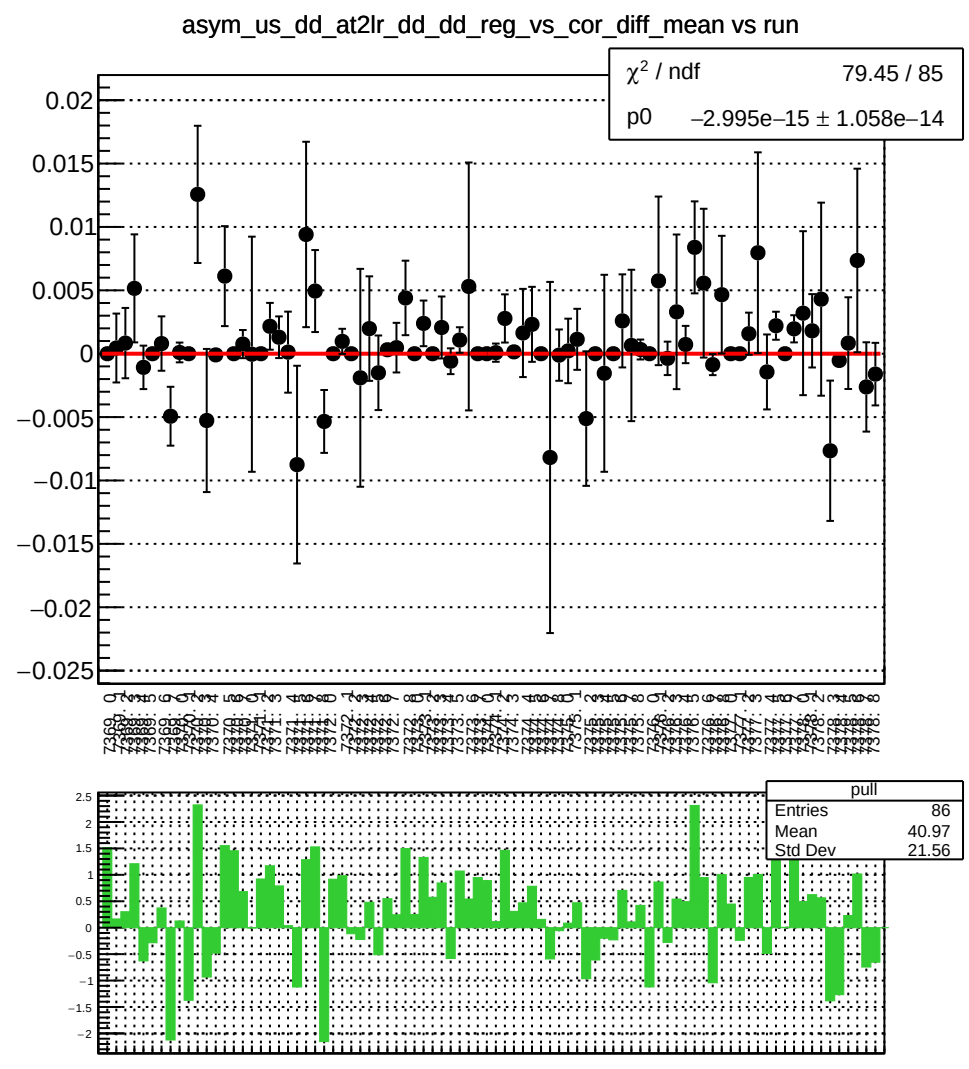

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.75 / 85
p0 508 ± 553.1
pull
Entries 86
Mean −252.8
Std Dev 0
pull1D
Entries 86
Mean −0.003656
Std Dev 1.027

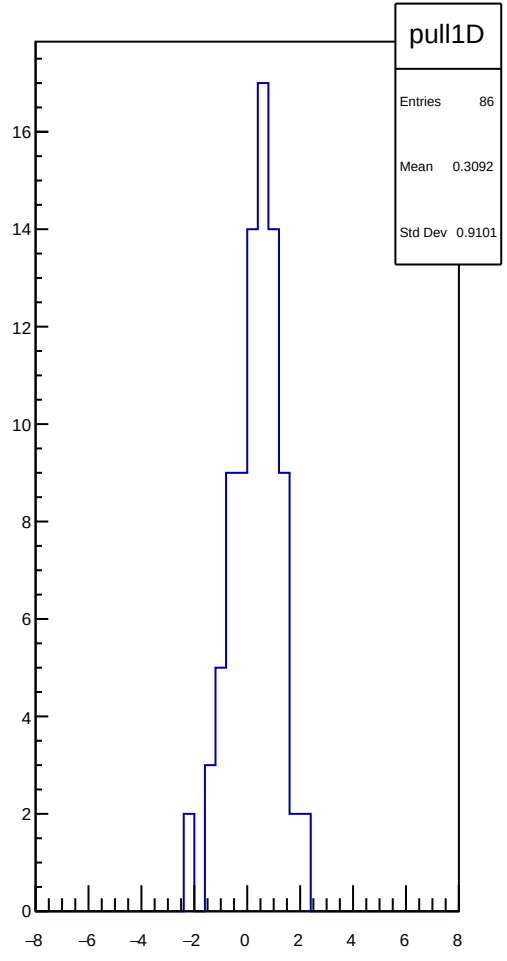

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.474e+04 / 85
p0 503.8 ± 0.3911
650
600
550
500
450
400

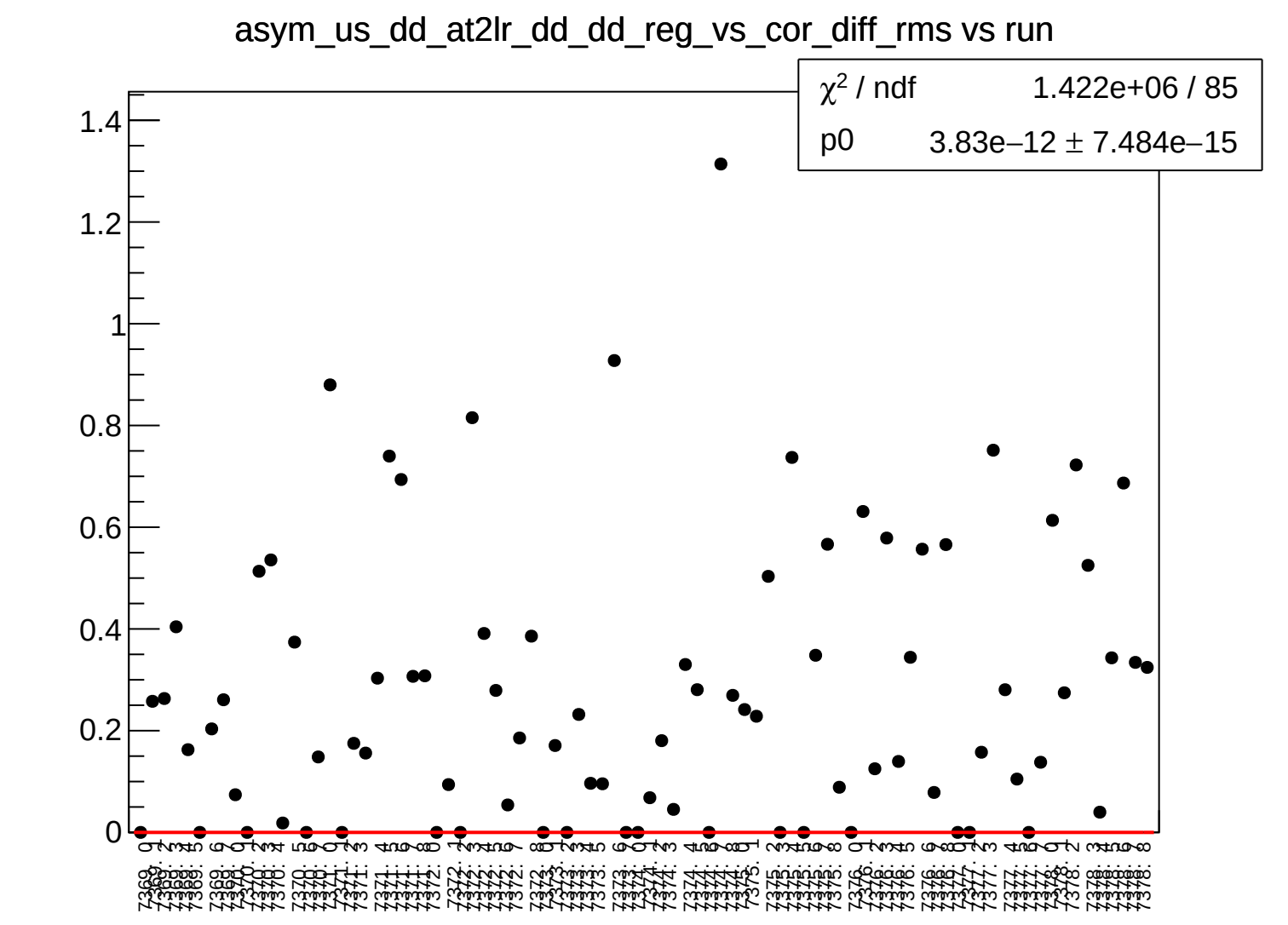

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 107.8 / 85
p0 173.8 ± 1619
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −698
Std Dev 0
2
1
0
−1
−2
−3

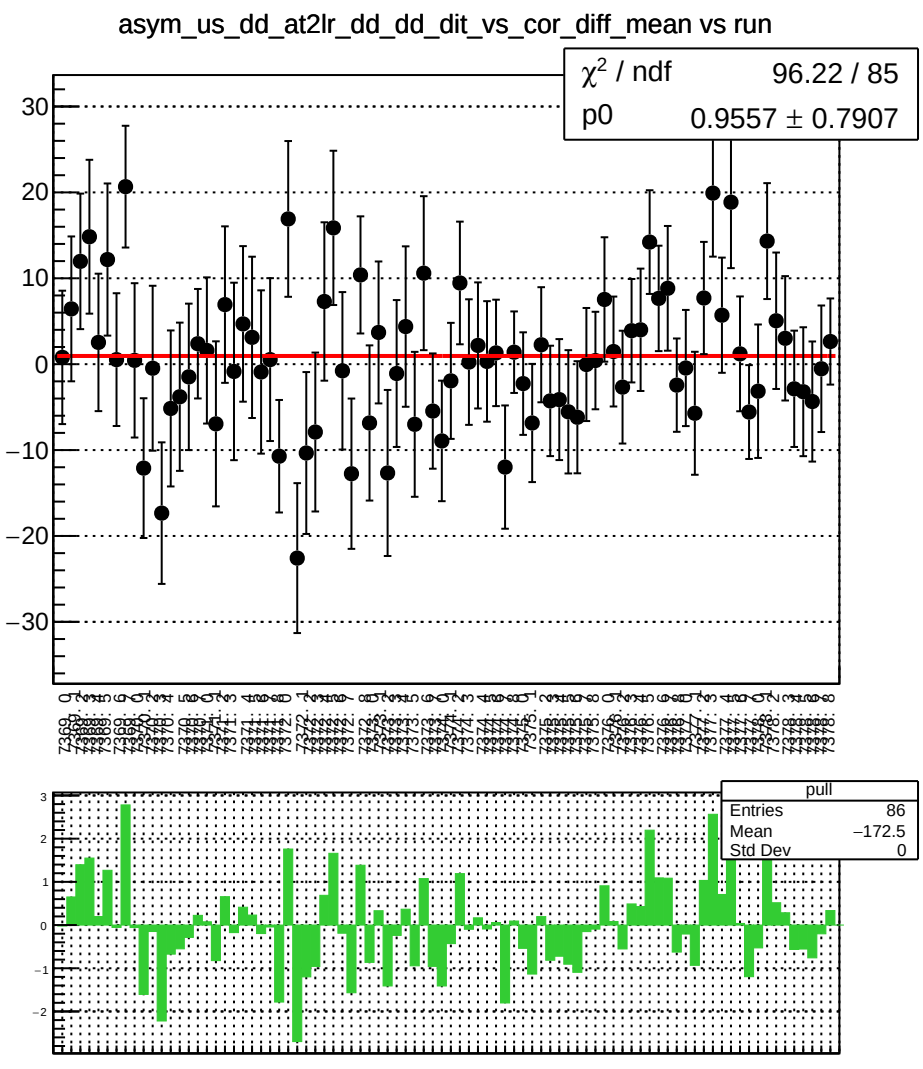

pull1D
Entries 86
Mean −0.005747
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

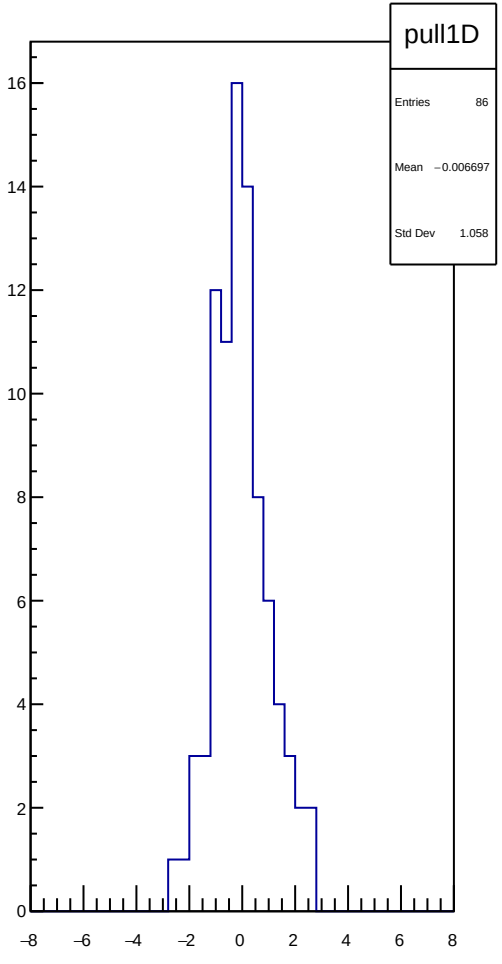

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 174.2 / 85
p0 1486 ± 1.145
1540
1520
1500
1480
1460
1440

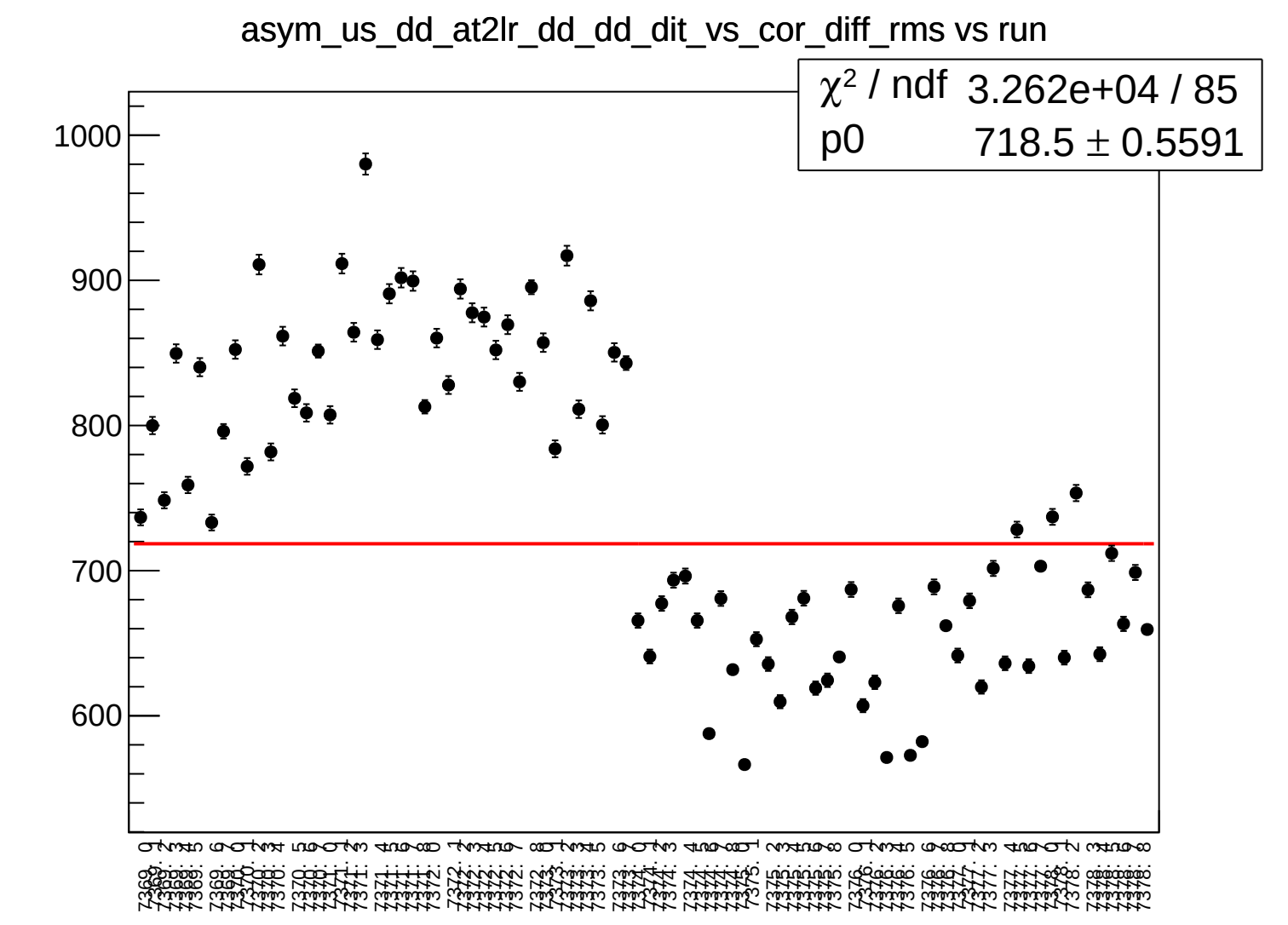

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.45 / 85
p0 −2.995e−15 ± 1.058e−14
pull
Entries 86
Mean 40.97
Std Dev 21.56

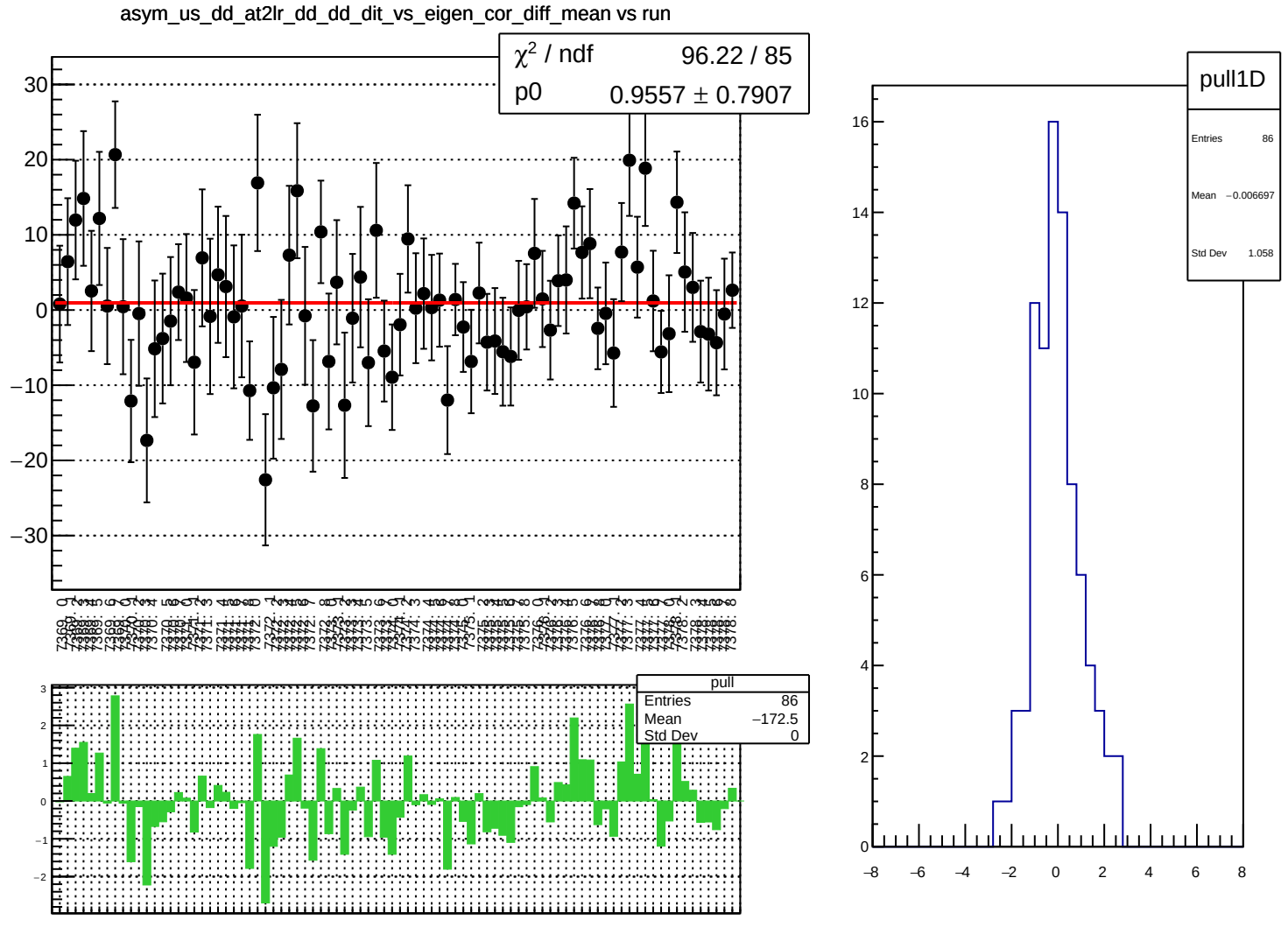

pull1D
Entries 86
Mean 0.3092
Std Dev 0.9101

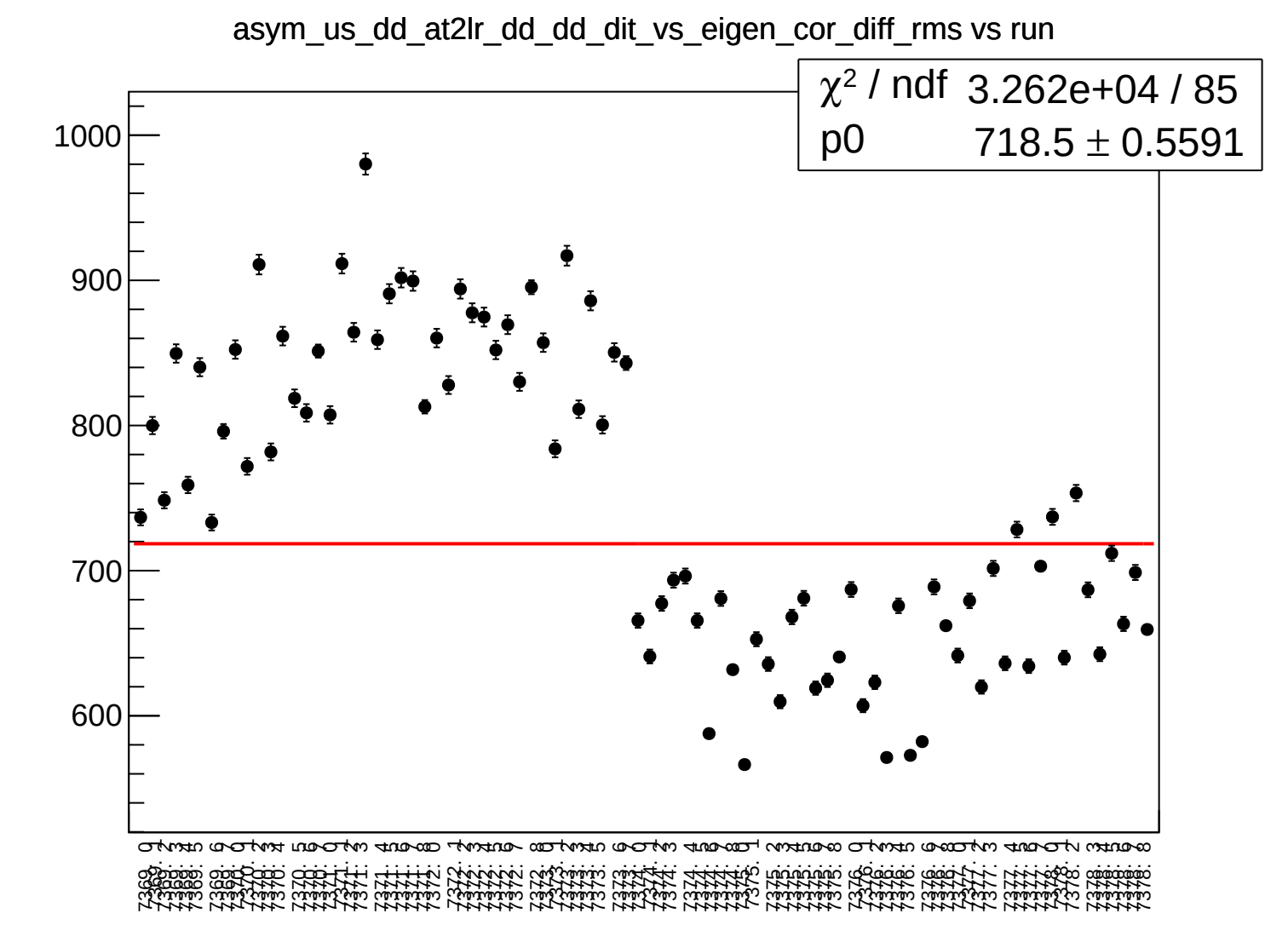

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.422e+06 / 85
p0 3.83e−12 ± 7.484e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

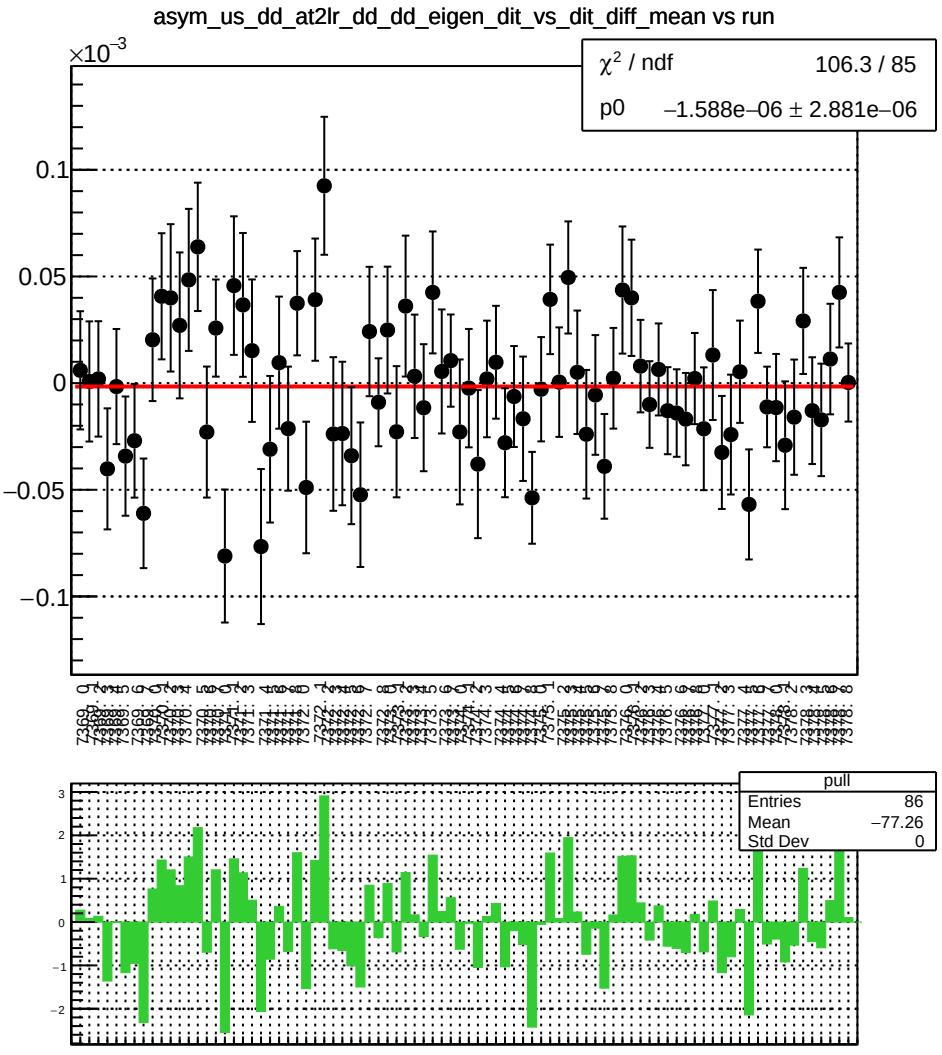

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.22 / 85
p0 0.9557 ± 0.7907
pull
Entries 86
Mean −172.5
Std Dev 0

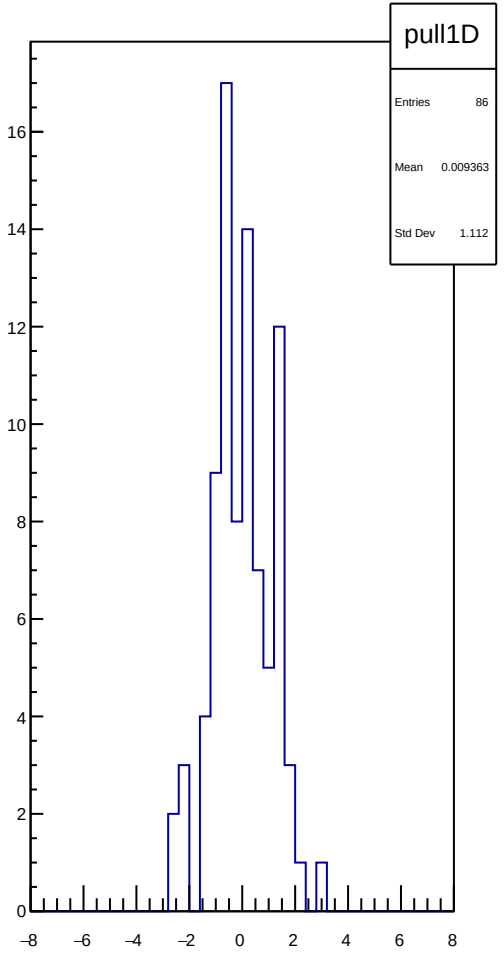

pull1D
Entries 86
Mean −0.006697
Std Dev 1.058

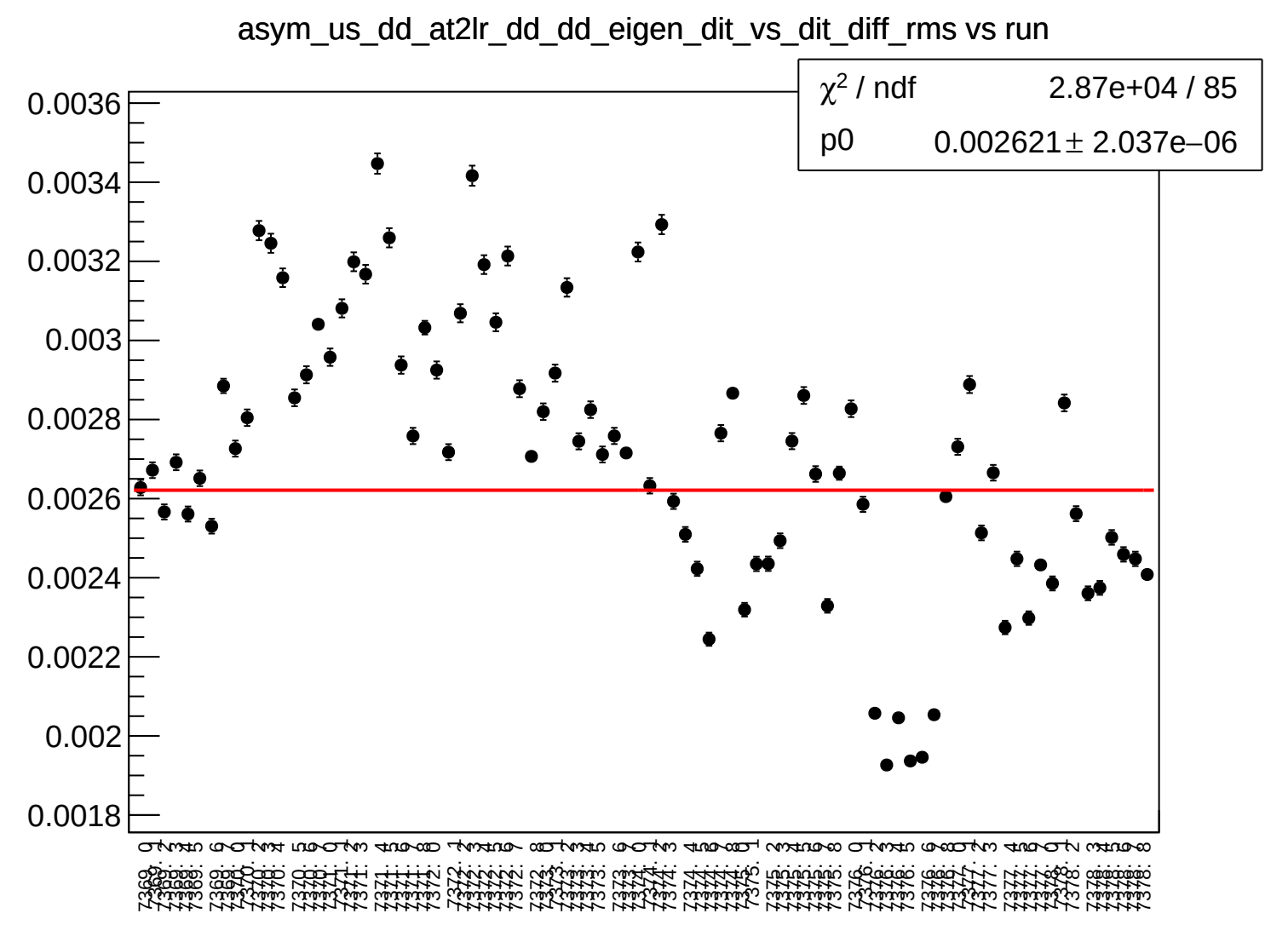

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.262e+04 / 85
p0 718.5 ± 0.5591
1000
900
800
700
600

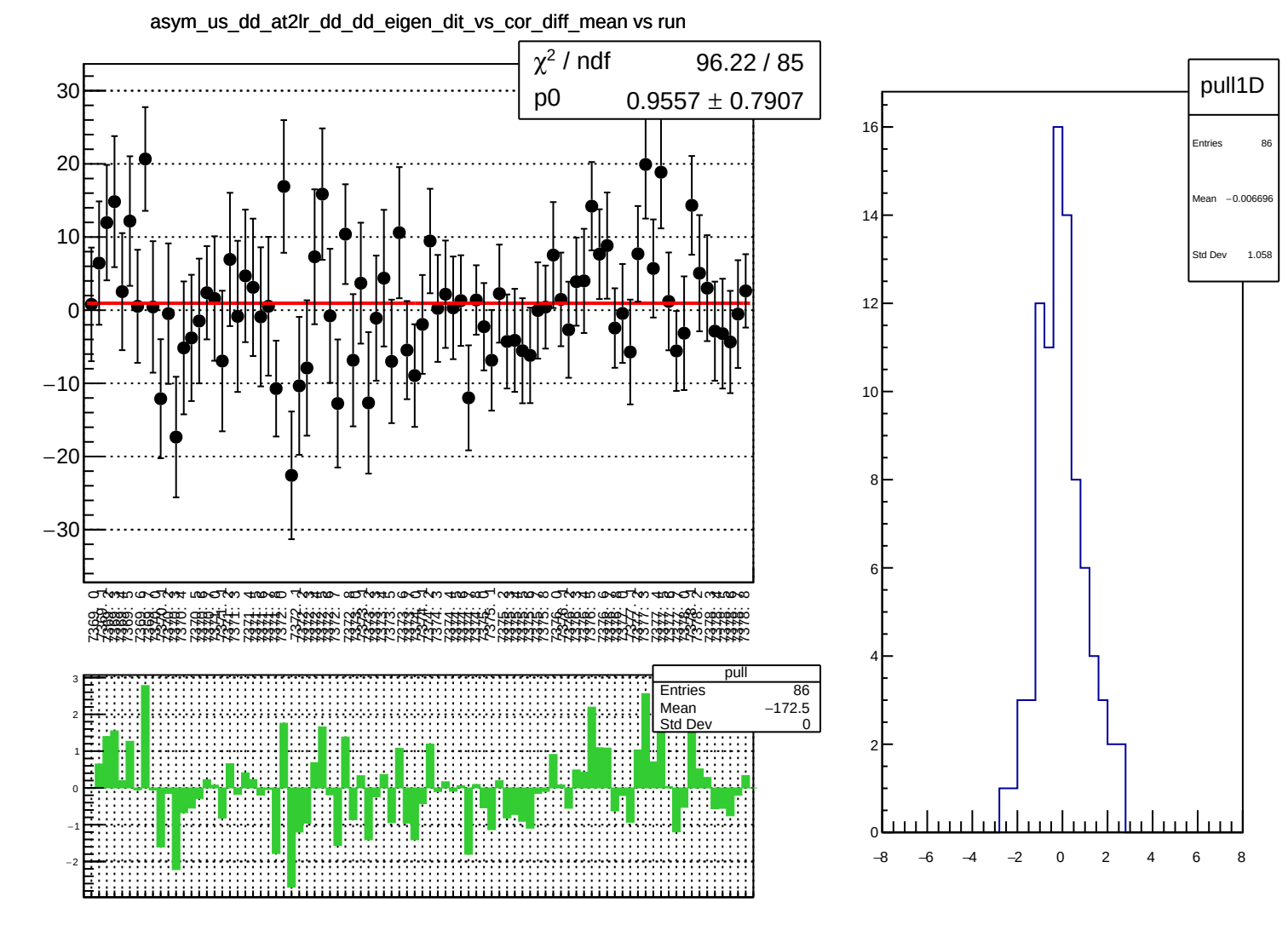

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.22 / 85
p0 0.9557 ± 0.7907
pull
Entries 86
Mean −172.5
Std Dev 0
pull1D
Entries 86
Mean −0.006697
Std Dev 1.058

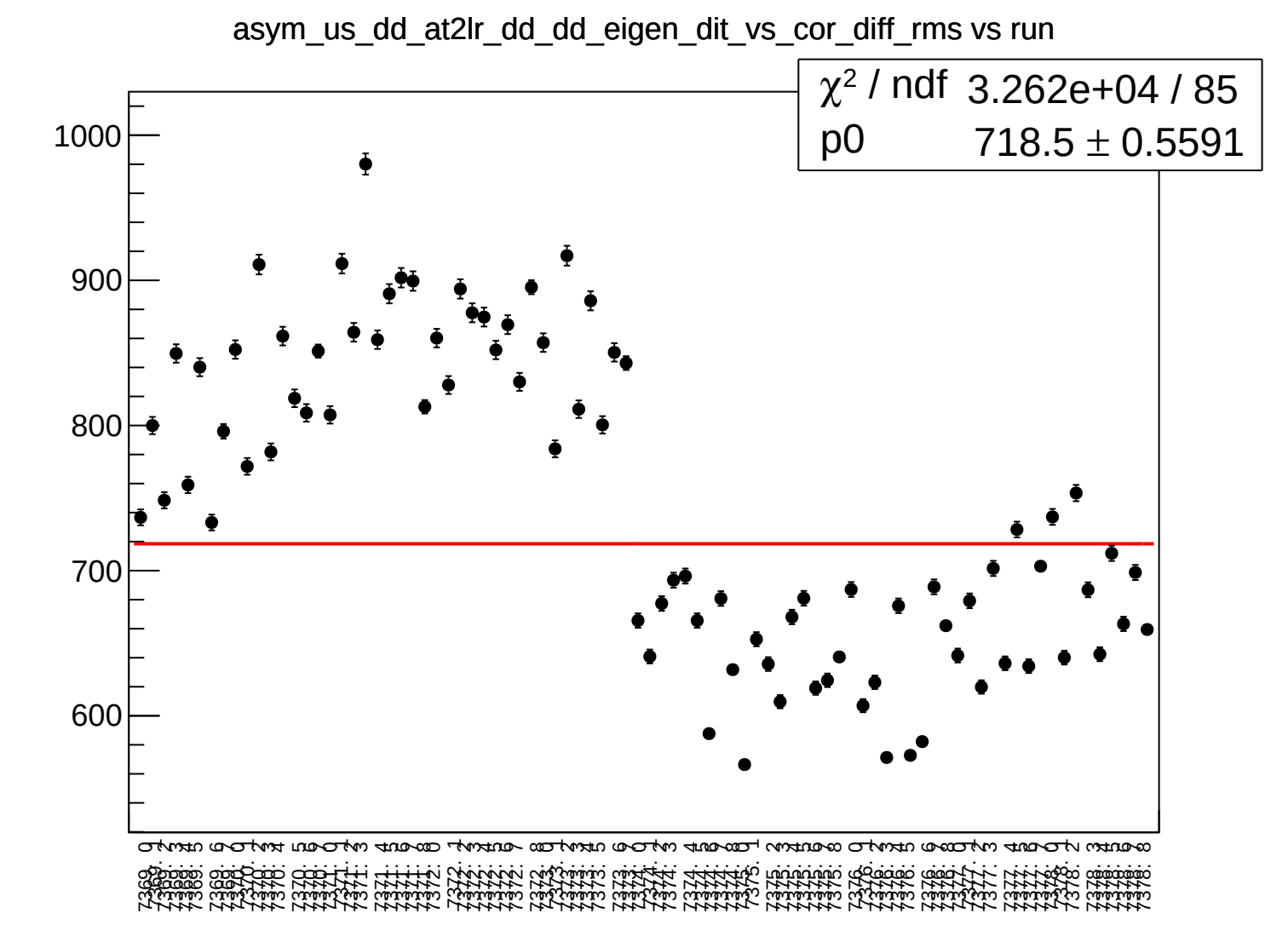

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.262e+04 / 85
p0 718.5 ± 0.5591
1000
900
800
700
600

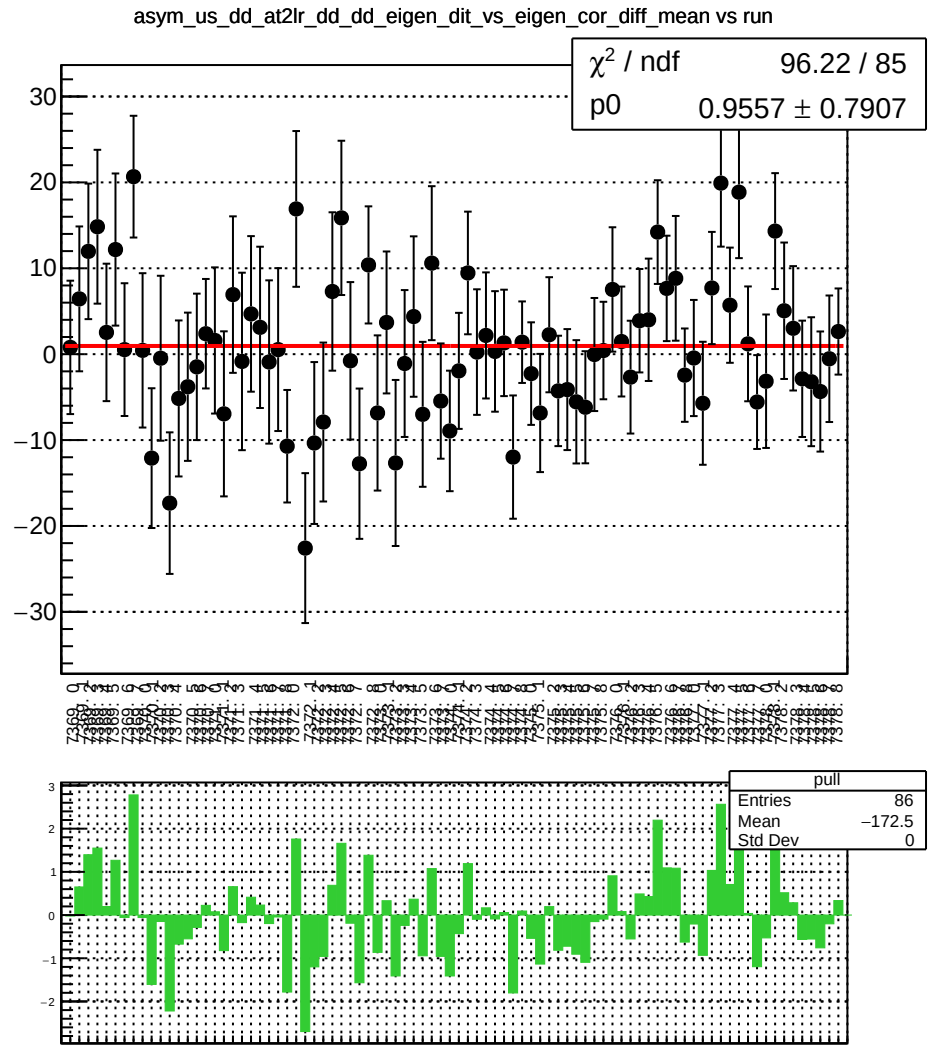

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.3 / 85
p0 −1.588e−06 ± 2.881e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −77.26
Std Dev 0
3
2
1
0
−1
−2

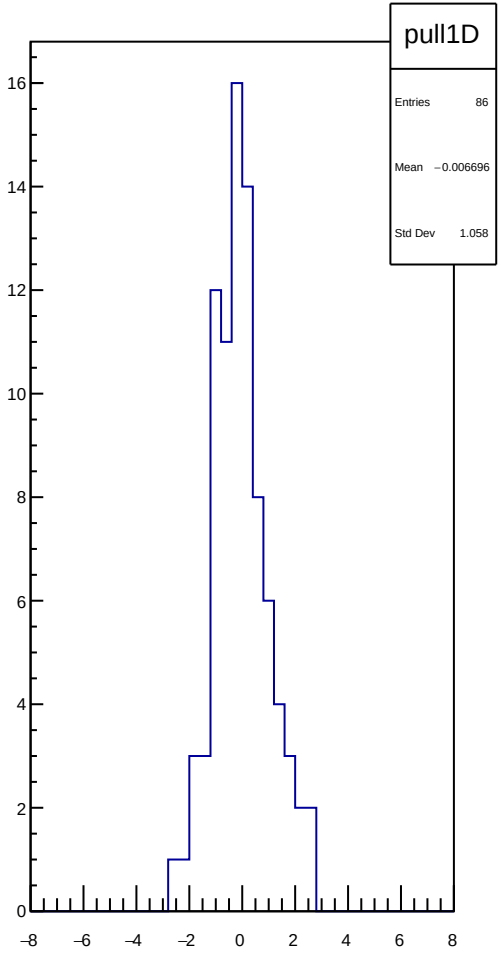

pull1D
Entries 86
Mean 0.009363
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

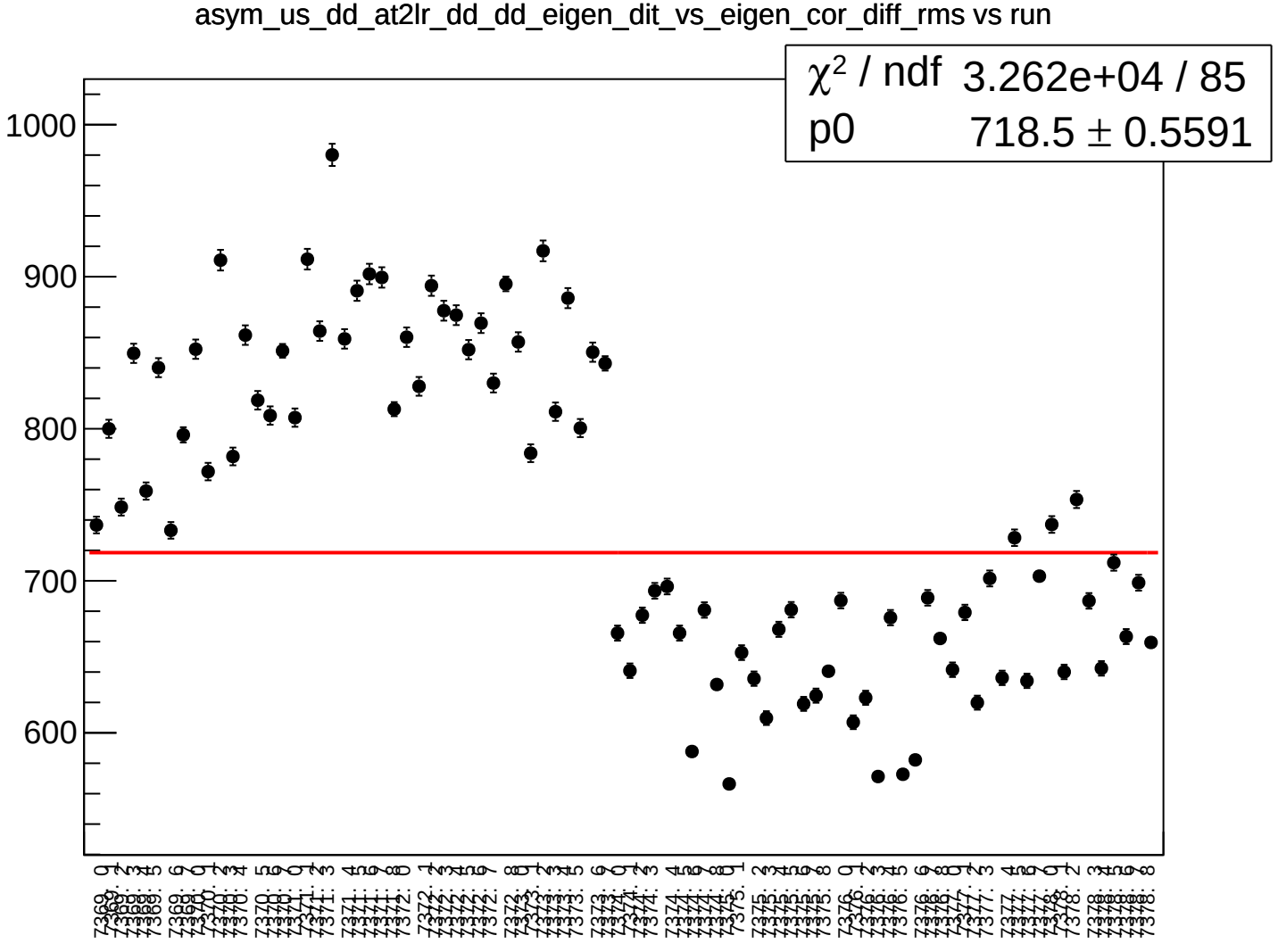

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.87e+04 / 85
p0 0.002621 ± 2.037e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

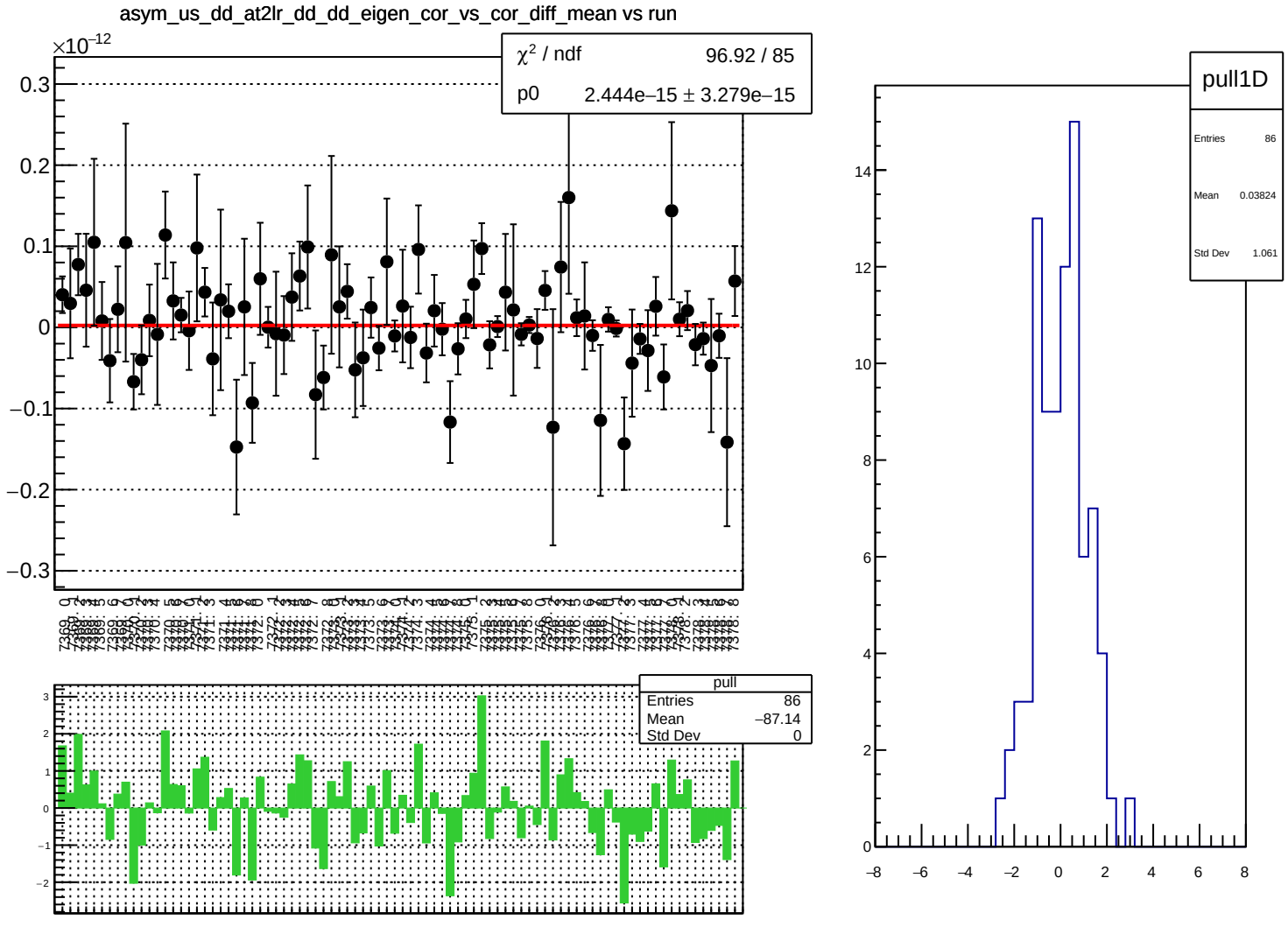

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.22 / 85
p0 0.9557 ± 0.7907
pull
Entries 86
Mean −172.5
Std Dev 0
pull1D
Entries 86
Mean −0.006696
Std Dev 1.058

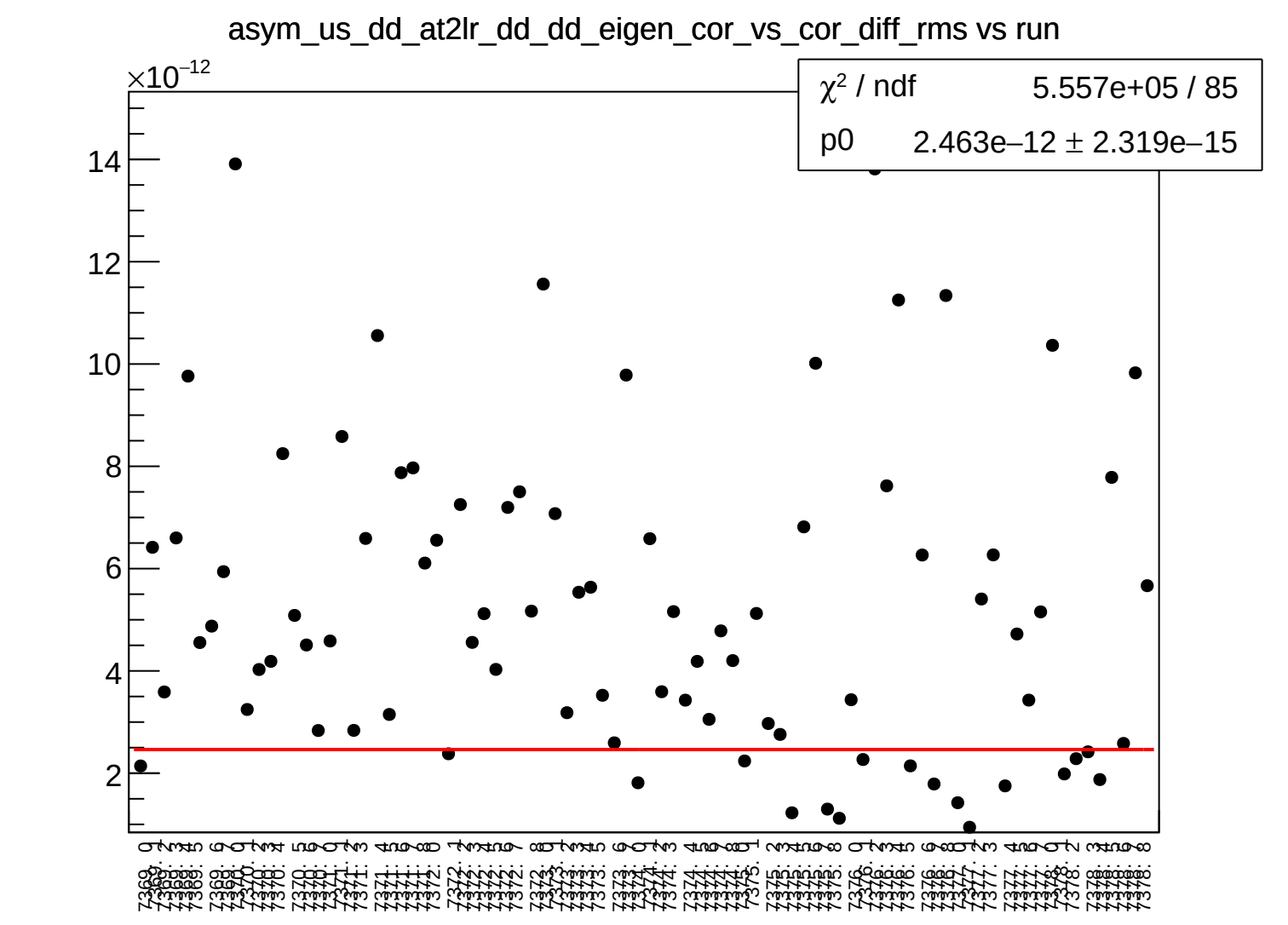

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.262e+04 / 85
p0 718.5 ± 0.5591
1000
900
800
700
600

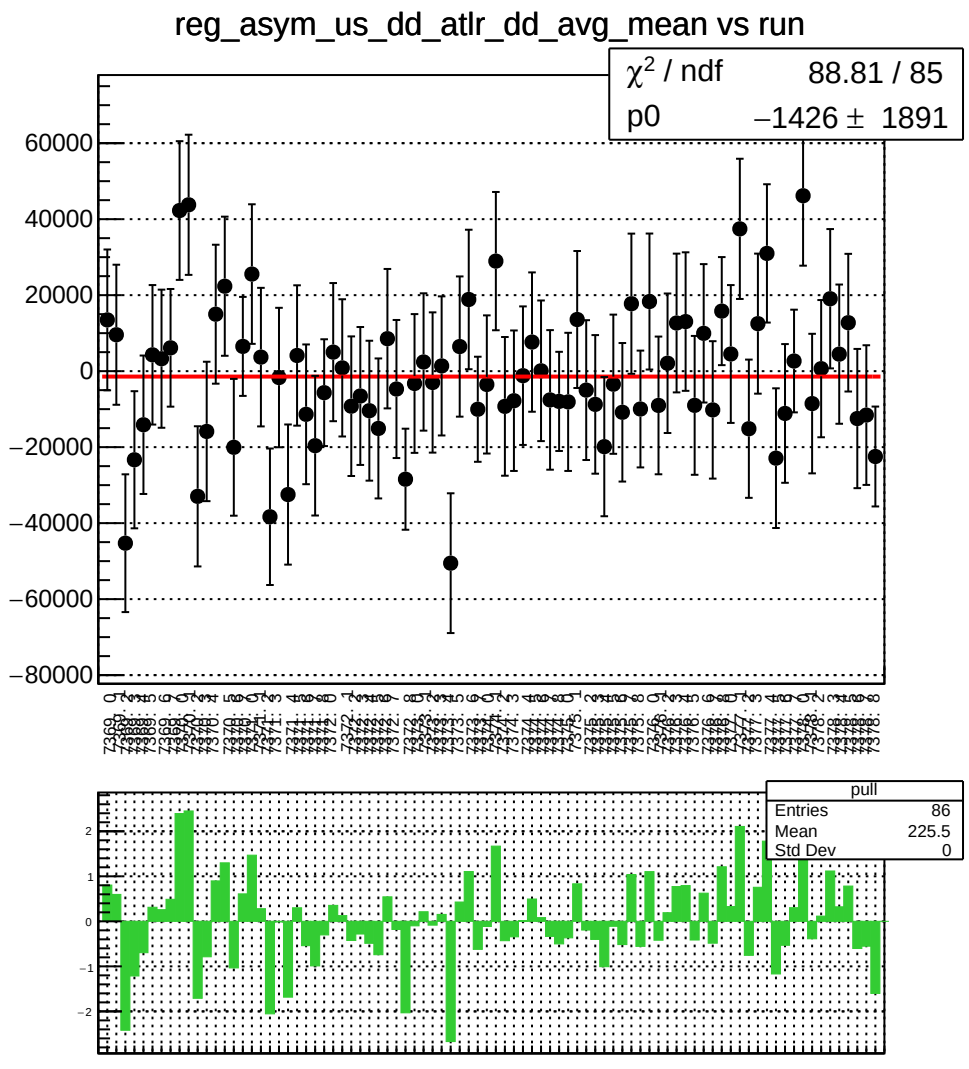

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.22 / 85
p0 0.9557 ± 0.7907
pull
Entries 86
Mean −172.5
Std Dev 0

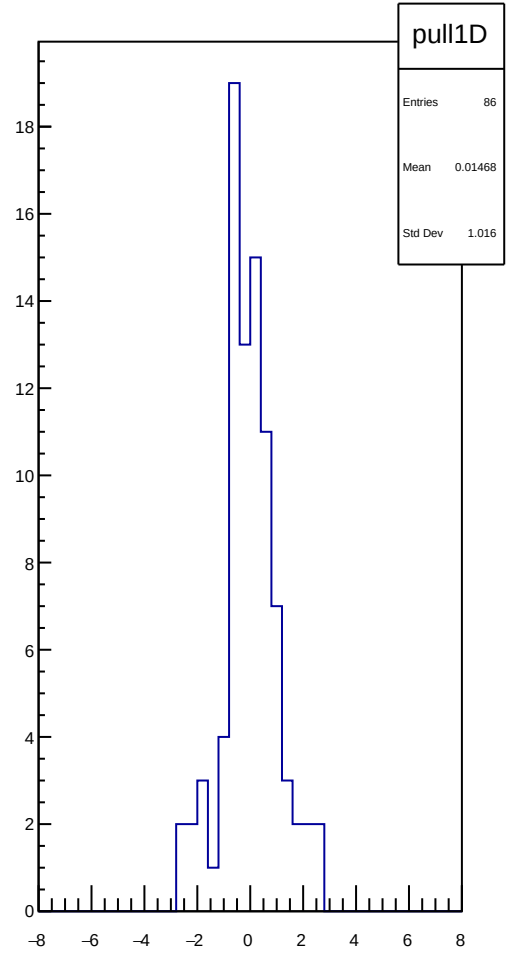

pull1D
Entries 86
Mean −0.006696
Std Dev 1.058

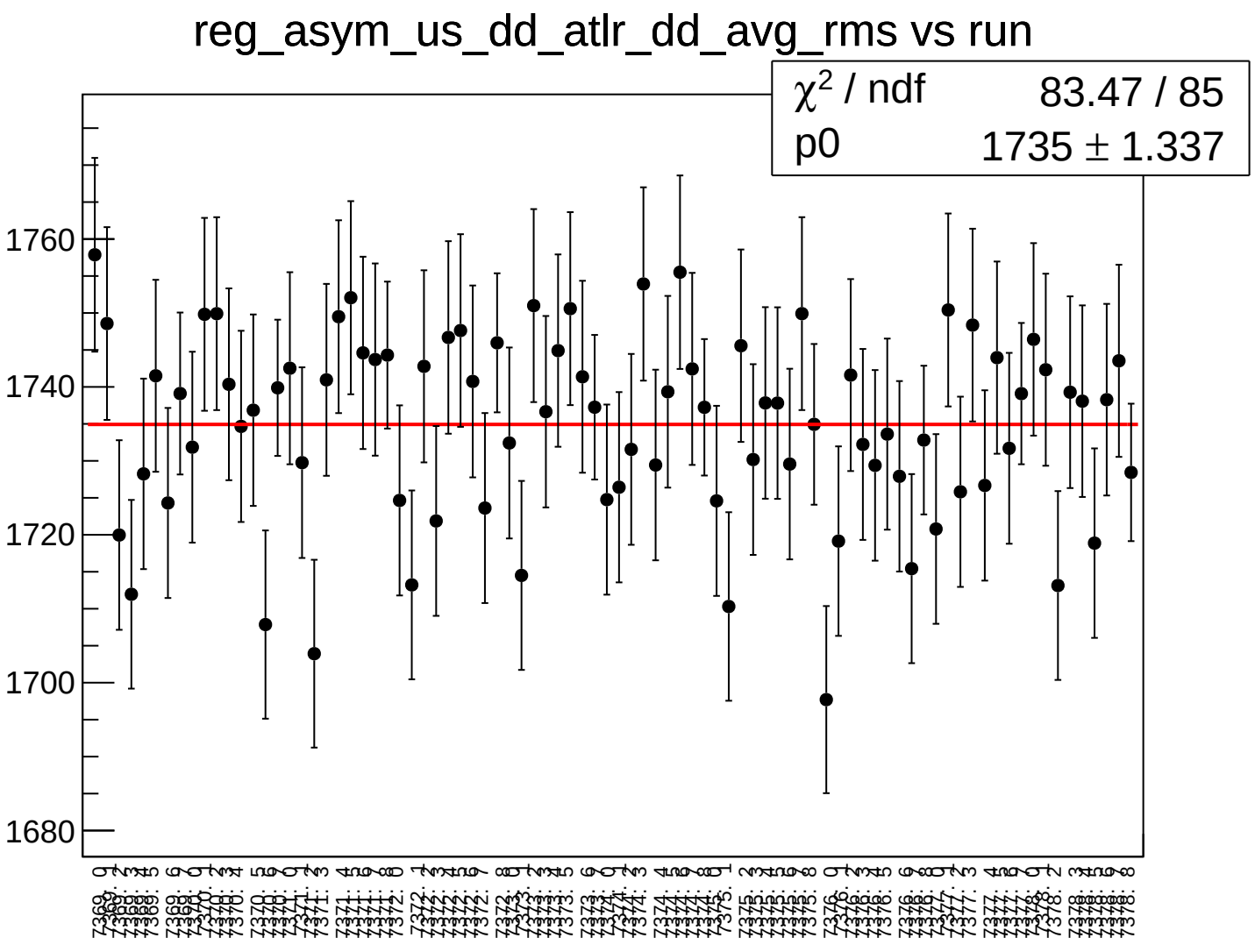

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.262e+04 / 85
p0 718.5 ± 0.5591
1000
900
800
700
600

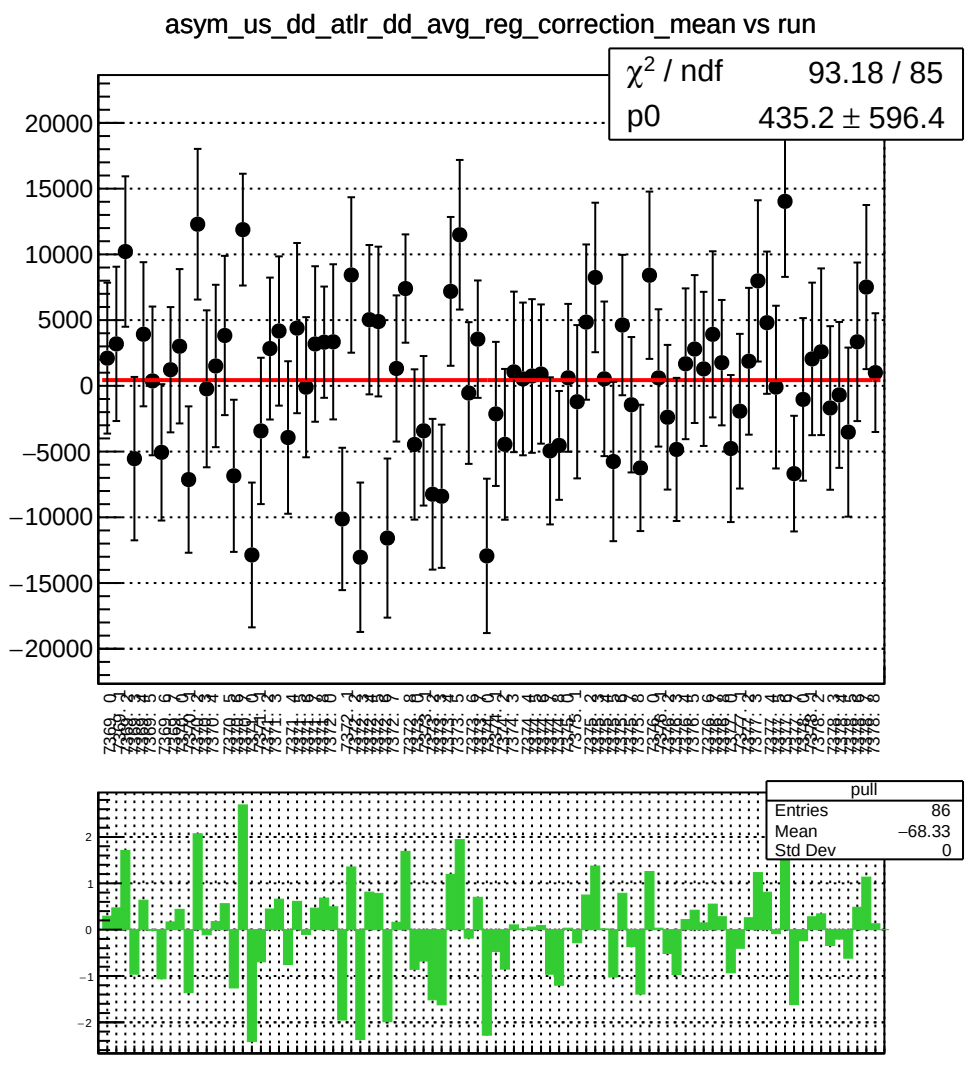

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.92 / 85
p0 2.444e−15 ± 3.279e−15
pull
Entries 86
Mean −87.14
Std Dev 0
pull1D
Entries 86
Mean 0.03824
Std Dev 1.061

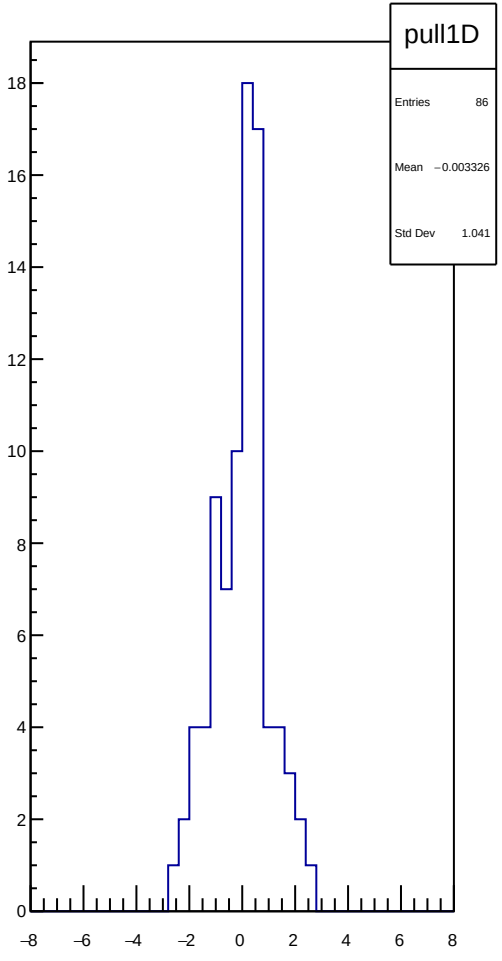

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.557e+05 / 85
p0 2.463e−12 ± 2.319e−15
14
12
10
8
6
4
2

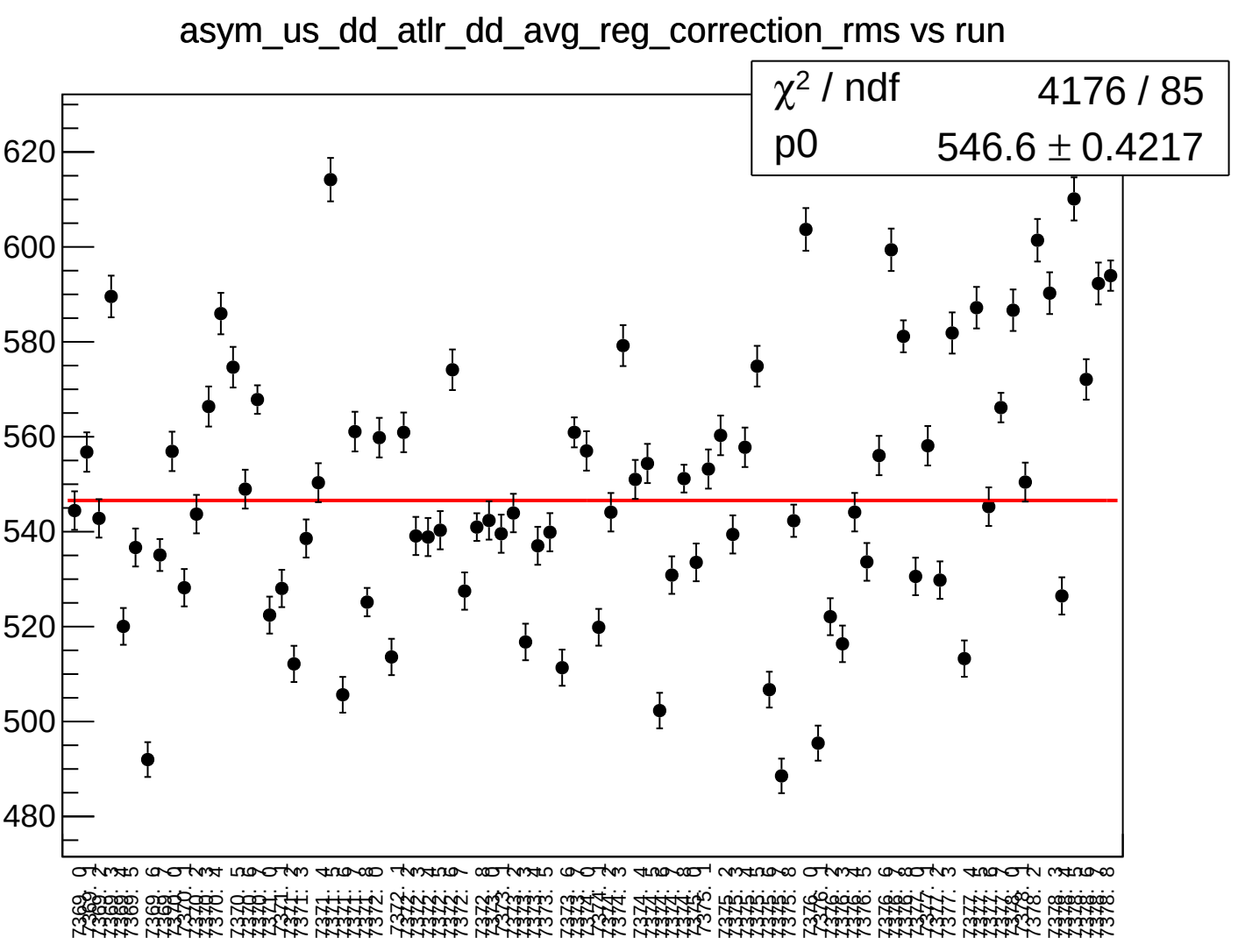

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.81 / 85
p0 −1426 ± 1891
pull
Entries 86
Mean 225.5
Std Dev 0

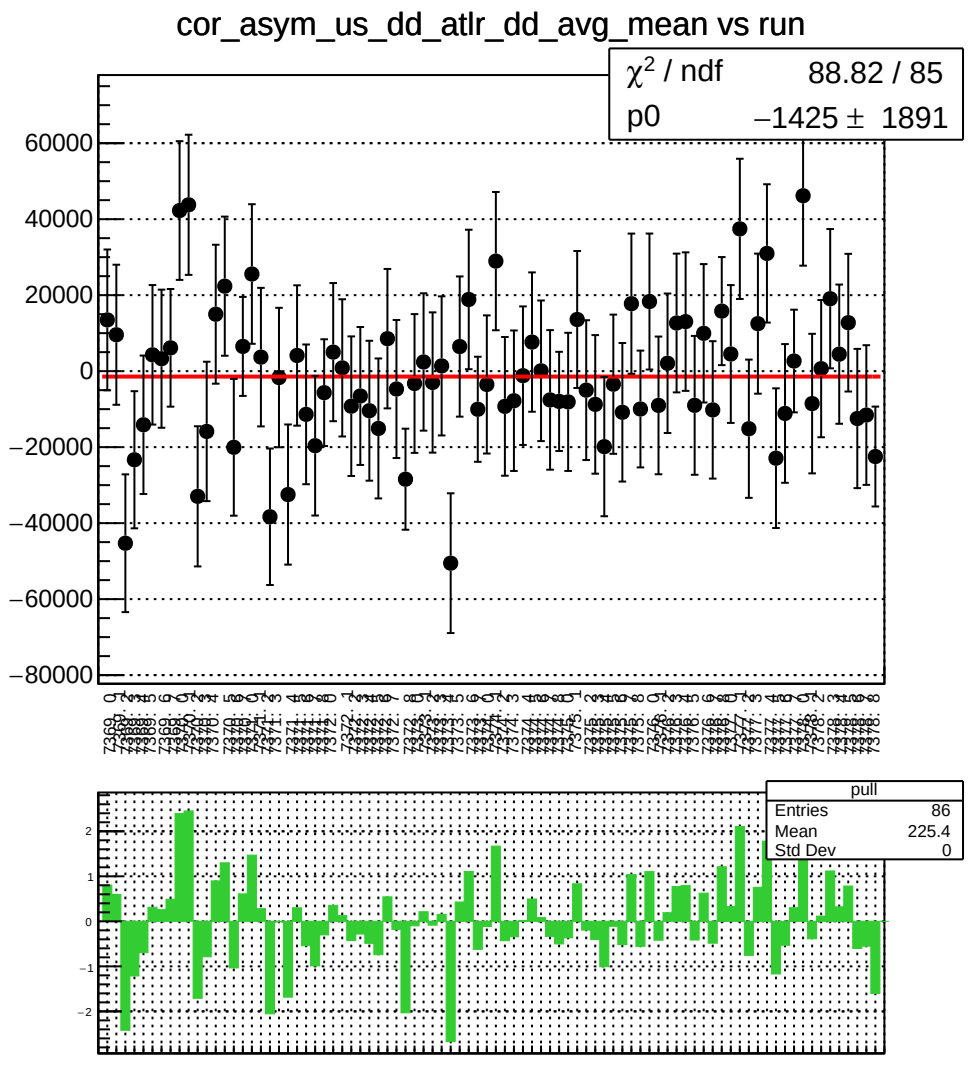

pull1D
Entries 86
Mean 0.01468
Std Dev 1.016

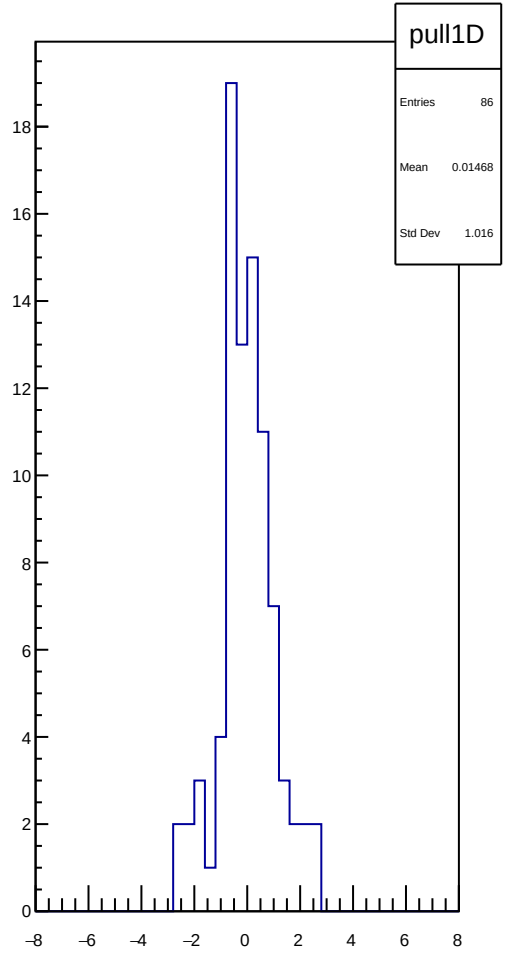

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 83.47 / 85
p0 1735 ± 1.337
1760
1740
1720
1700
1680

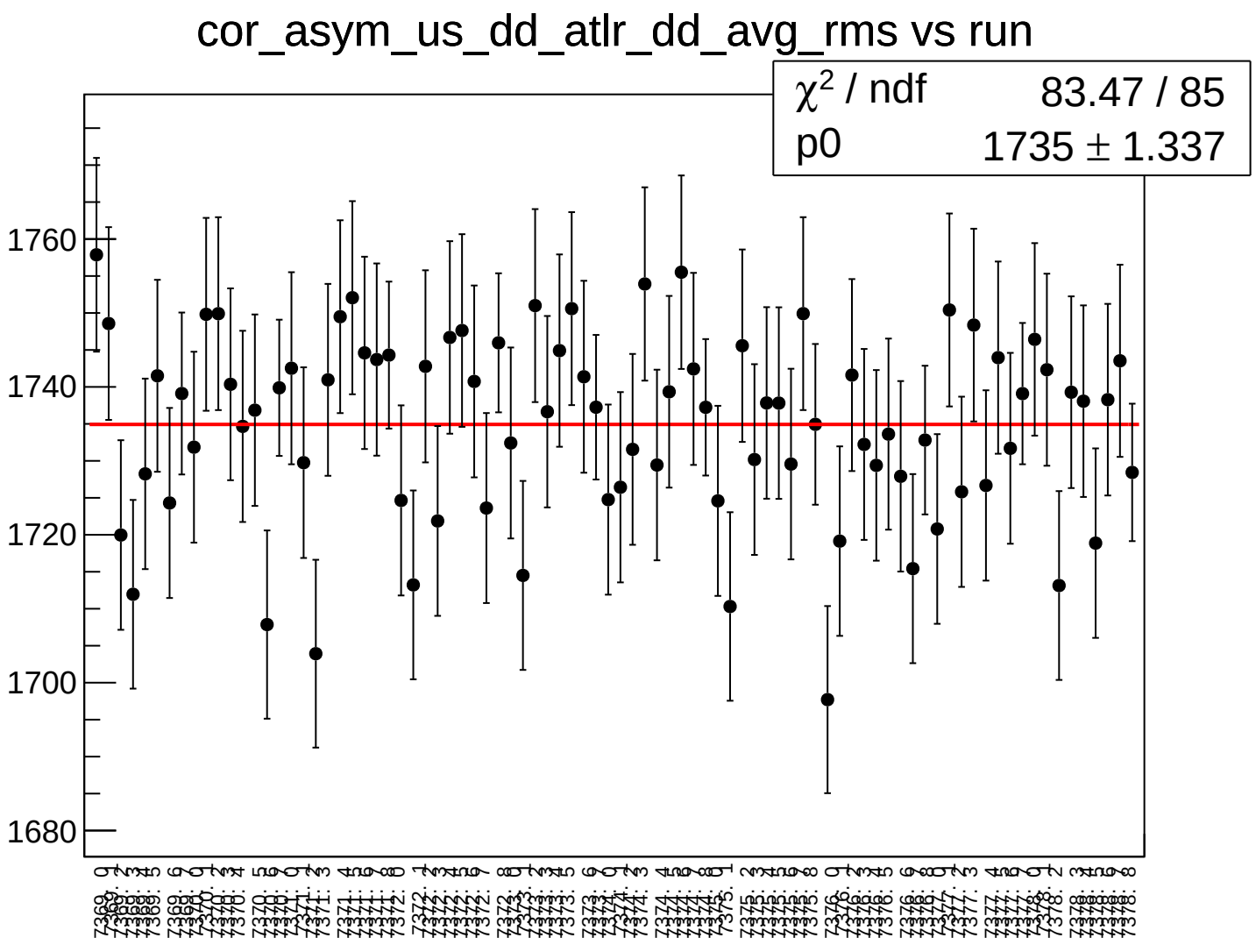

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 93.18 / 85
p0 435.2 ± 596.4
pull
Entries 86
Mean −68.33
Std Dev 0

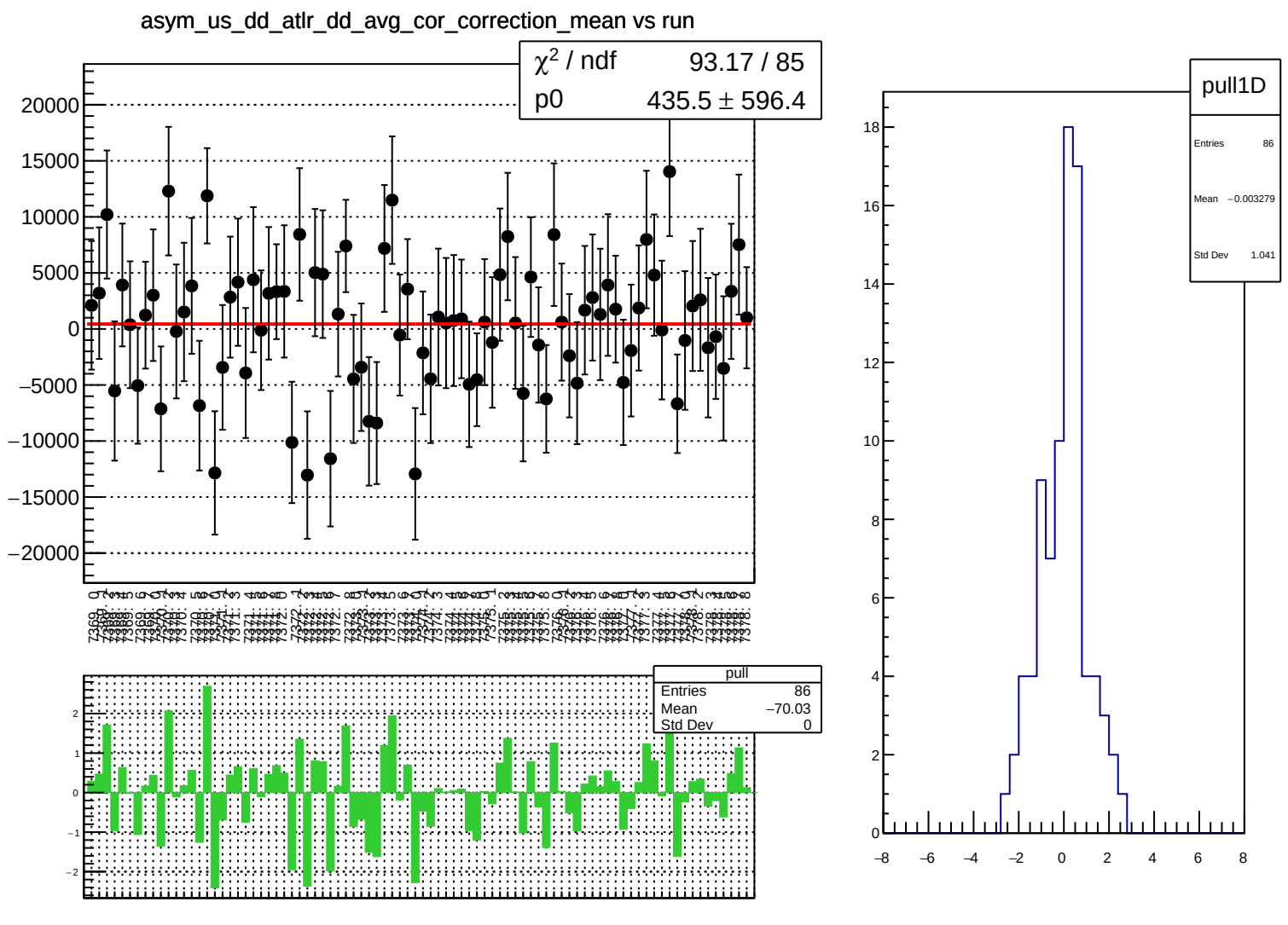

pull1D
Entries 86
Mean −0.003326
Std Dev 1.041

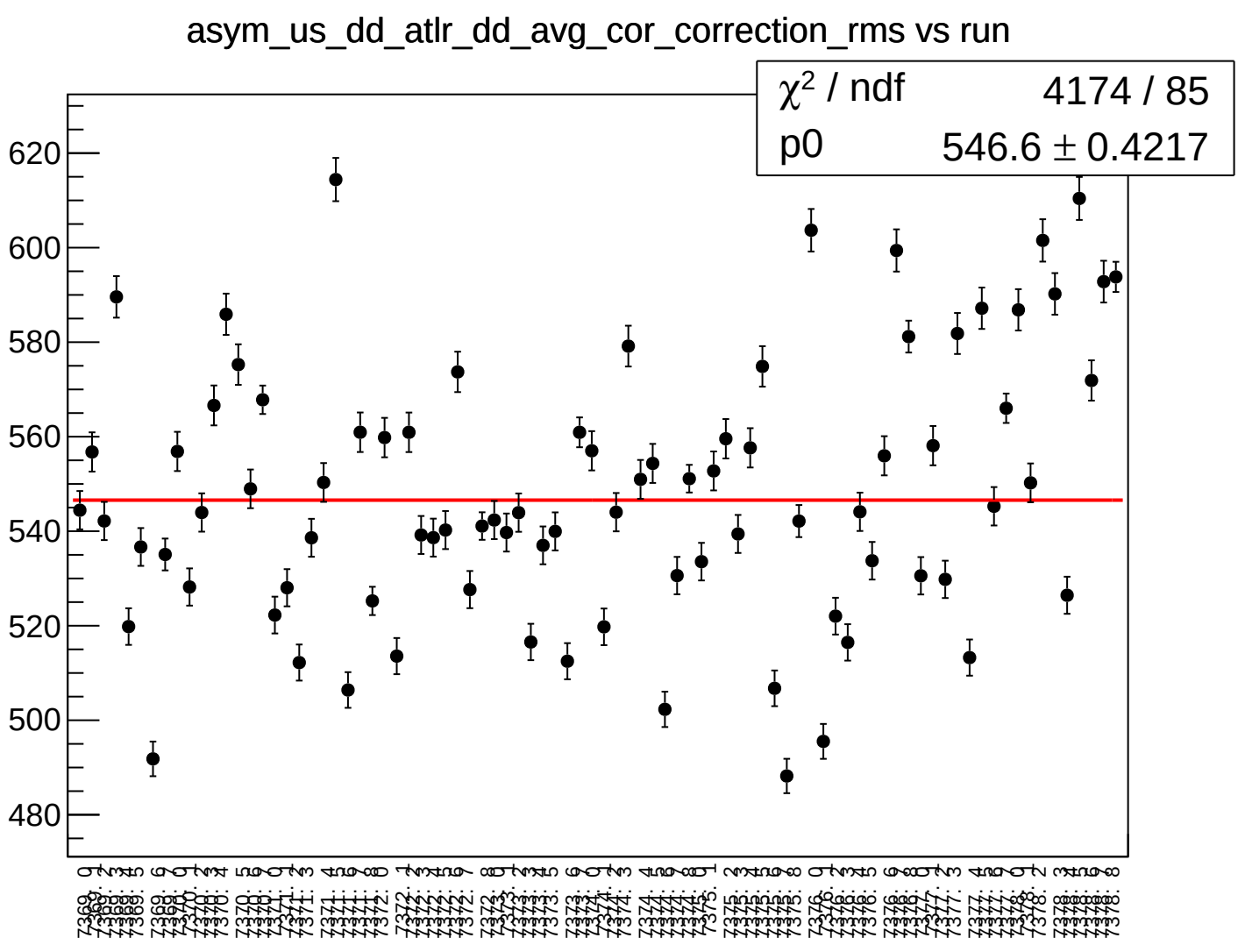

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 4176 / 85
p0 546.6 ± 0.4217
620
600
580
560
540
520
500
480

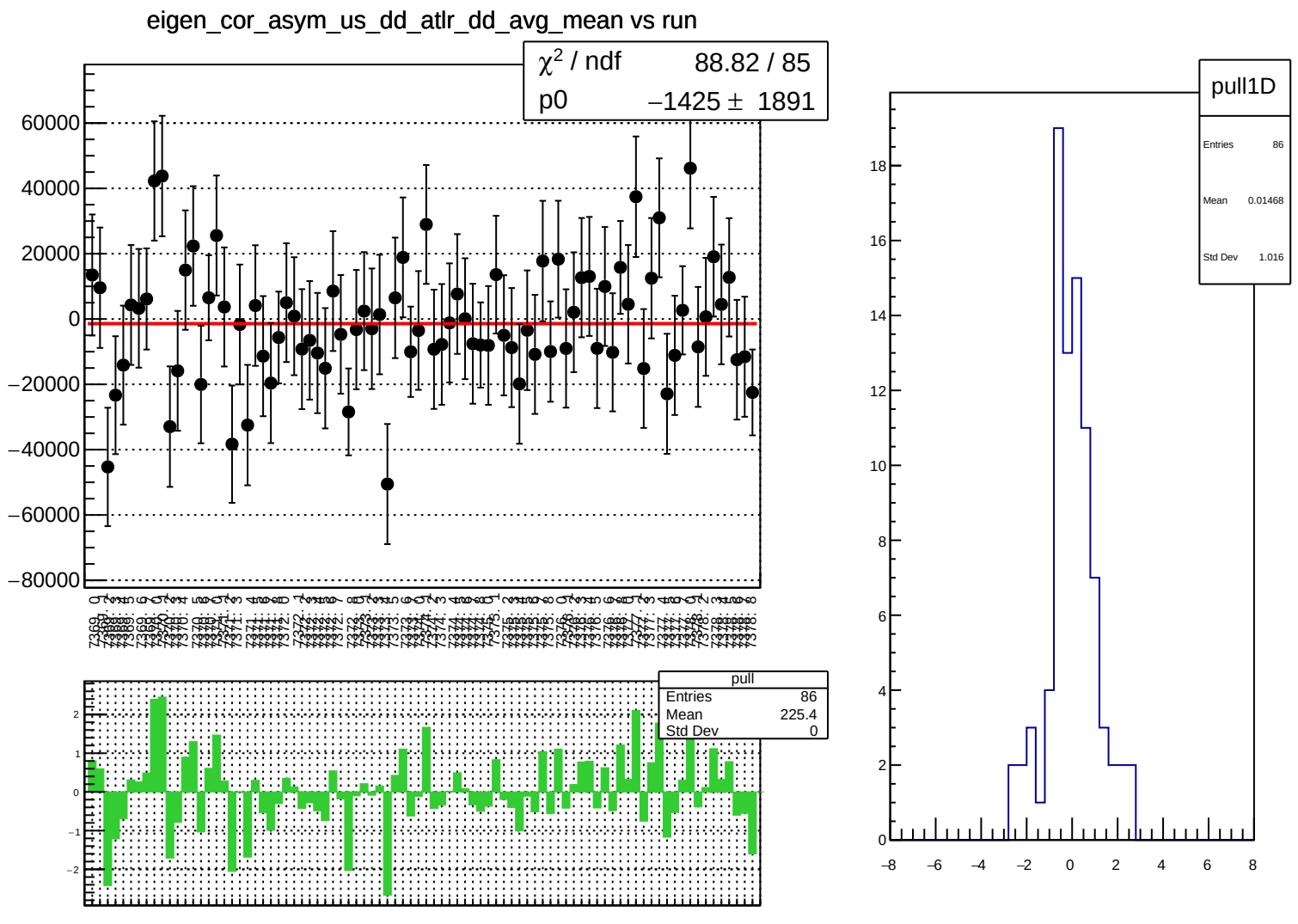

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.82 / 85
p0 −1425 ± 1891
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 225.4
Std Dev 0
2
1
0
−1
−2

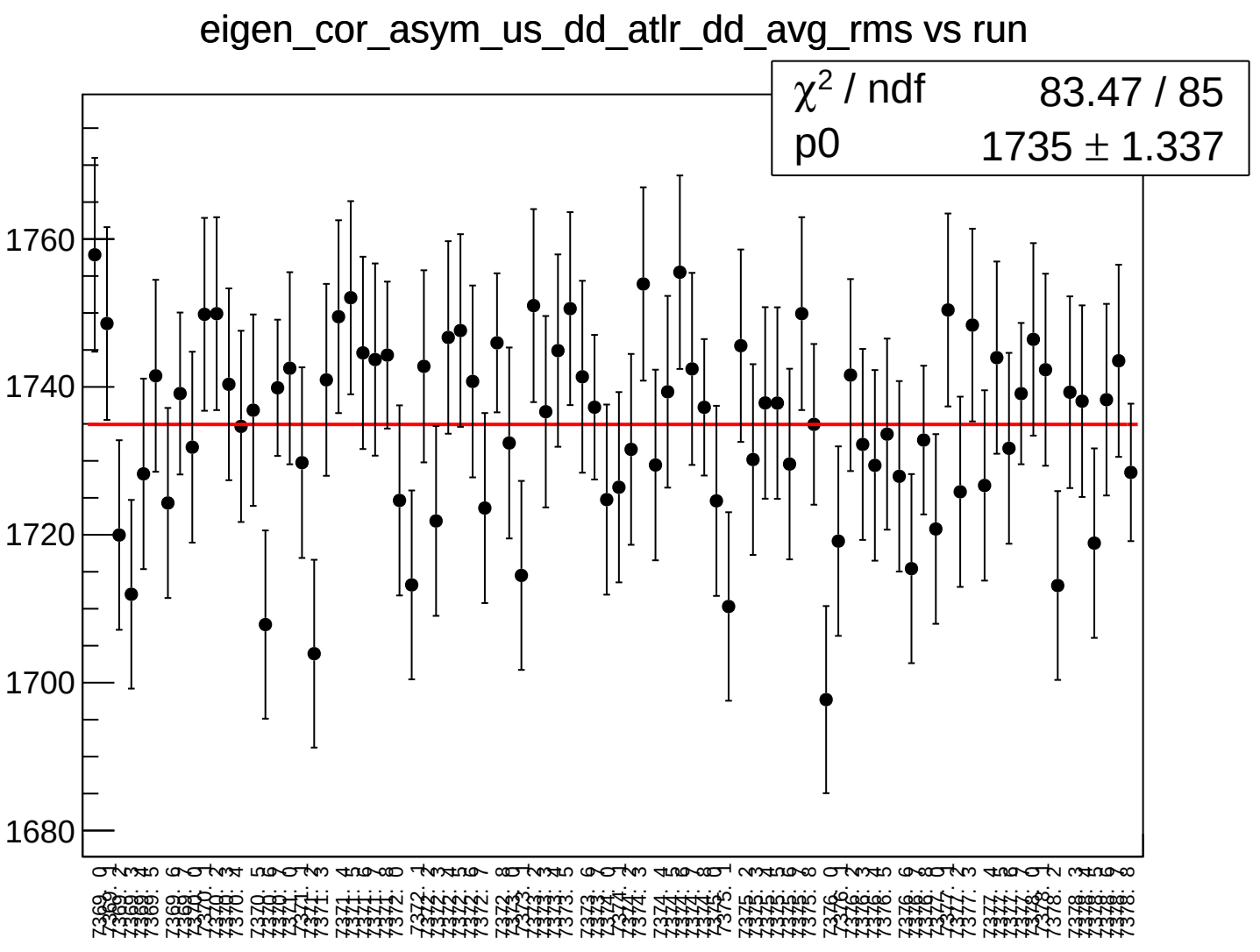

pull1D
Entries 86
Mean 0.01468
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

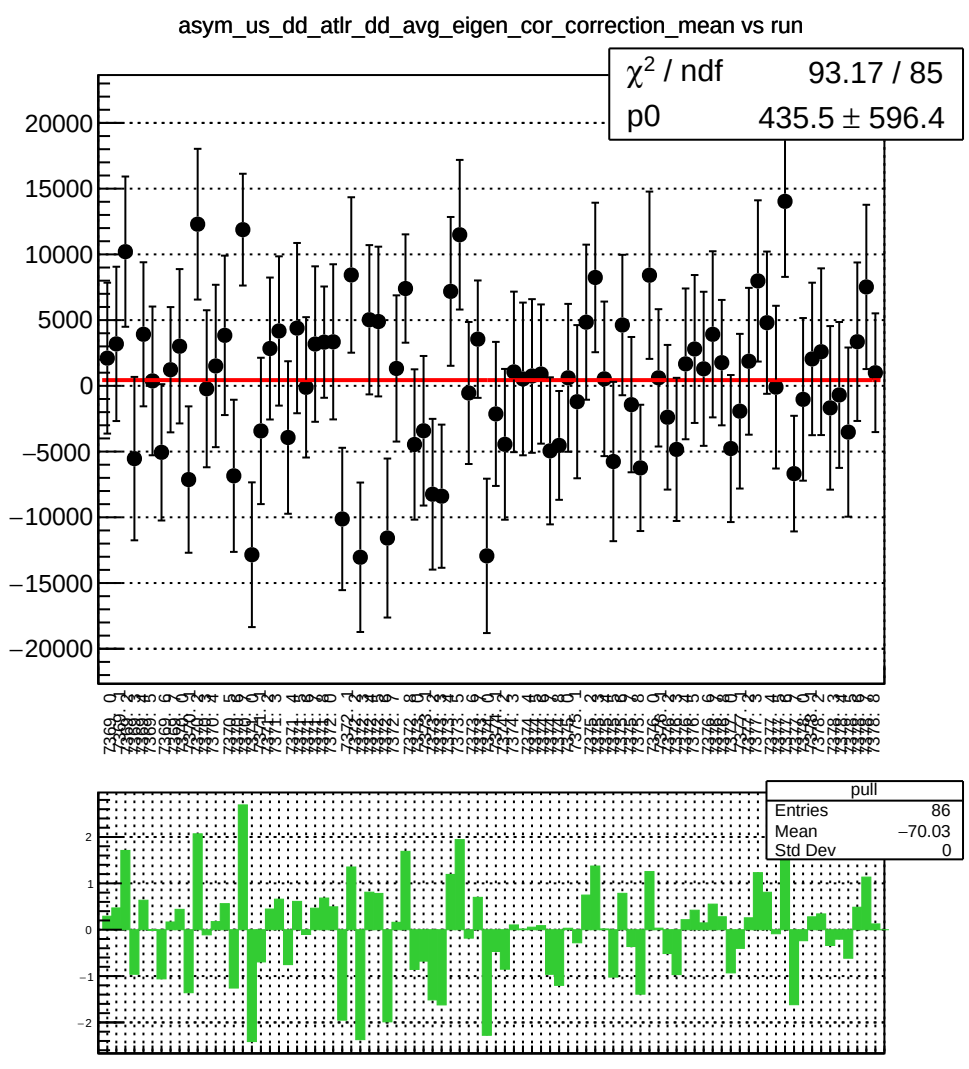

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 83.47 / 85
p0 1735 ± 1.337
1760
1740
1720
1700
1680

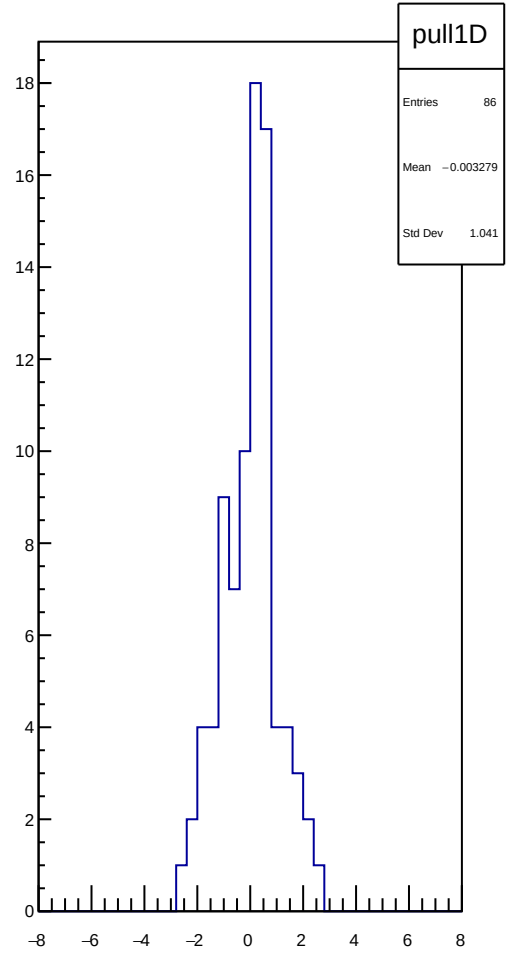

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 93.17 / 85
p0 435.5 ± 596.4
pull
Entries 86
Mean −70.03
Std Dev 0
pull1D
Entries 86
Mean −0.003279
Std Dev 1.041

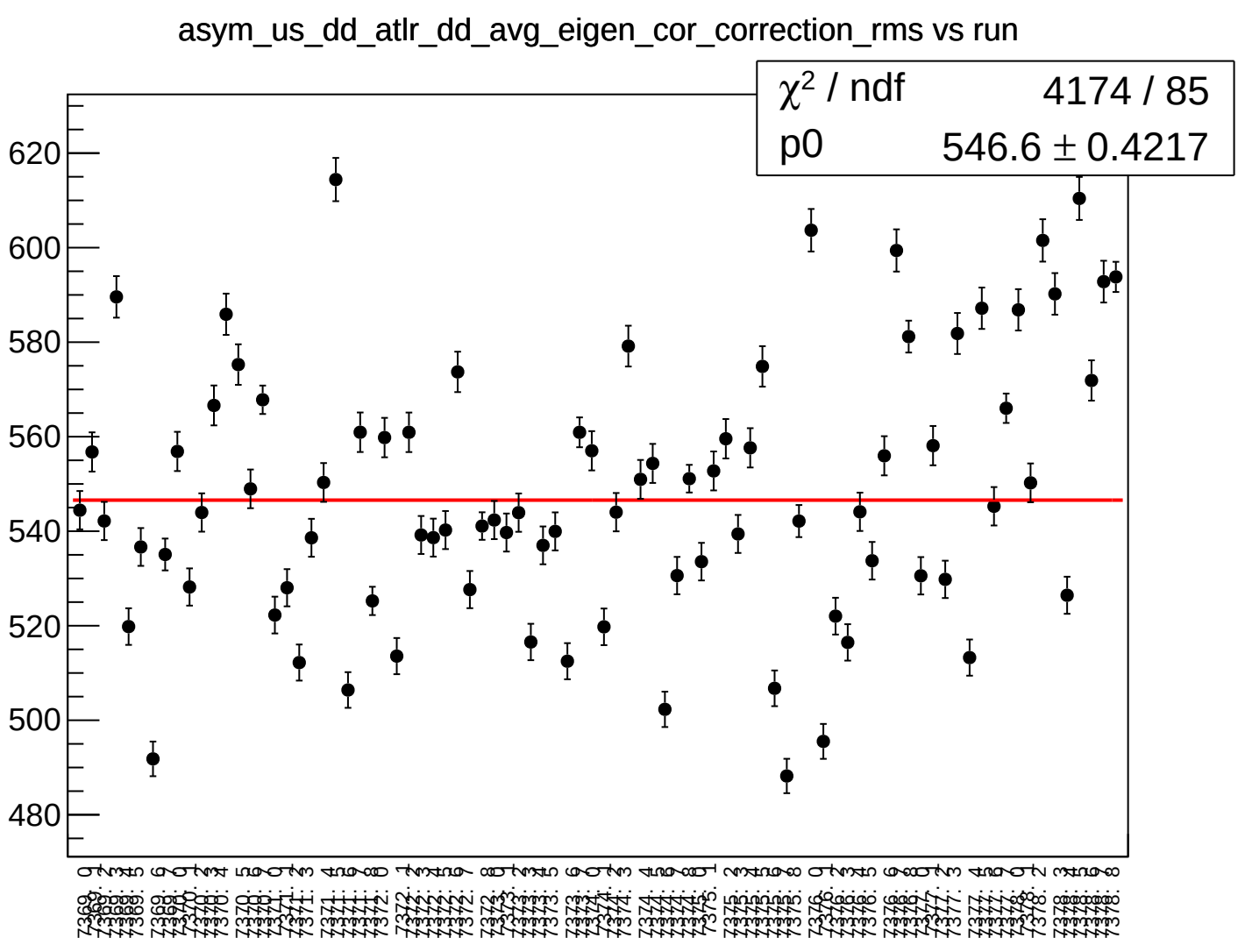

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 4174 / 85
p0 546.6 ± 0.4217
620
600
580
560
540
520
500
480

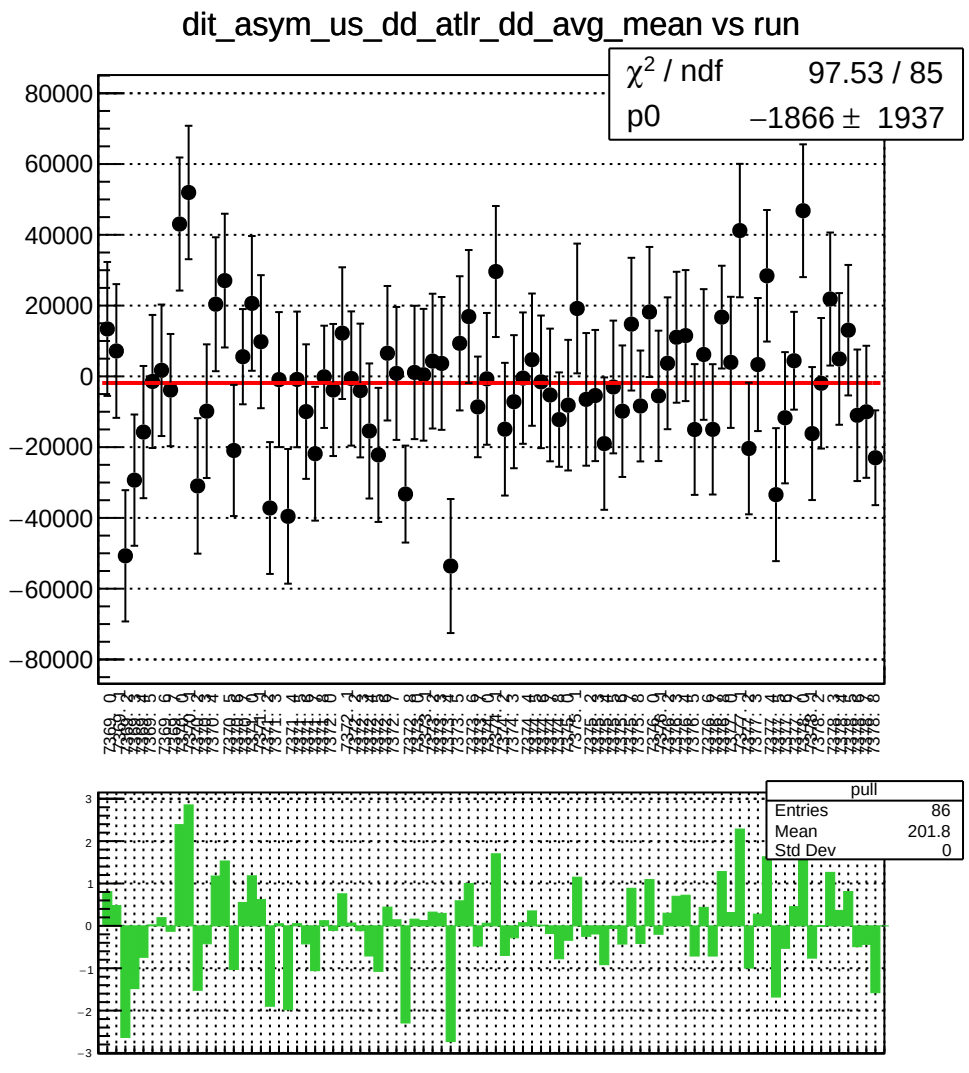

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.82 / 85
p0 −1425 ± 1891
pull
Entries 86
Mean 225.4
Std Dev 0
pull1D
Entries 86
Mean 0.01468
Std Dev 1.016

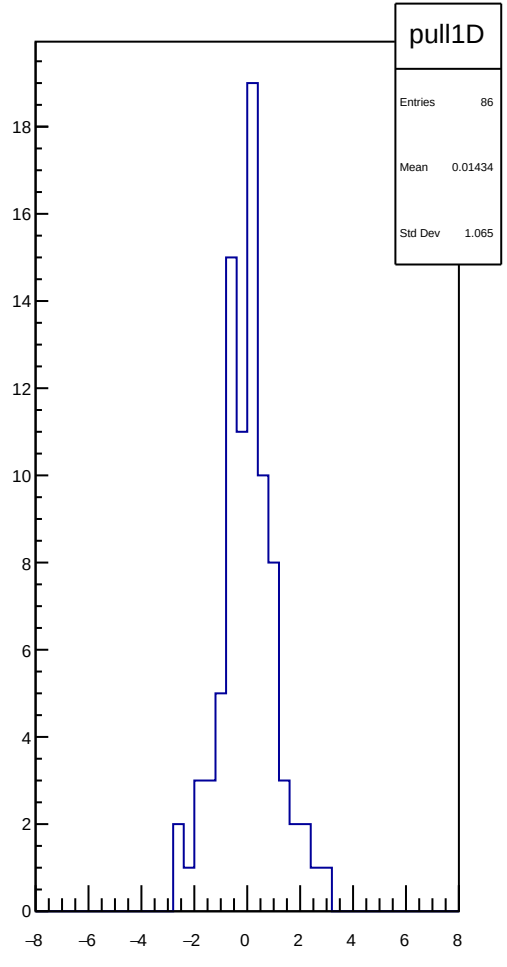

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 83.47 / 85
p0 1735 ± 1.337
1760
1740
1720
1700
1680

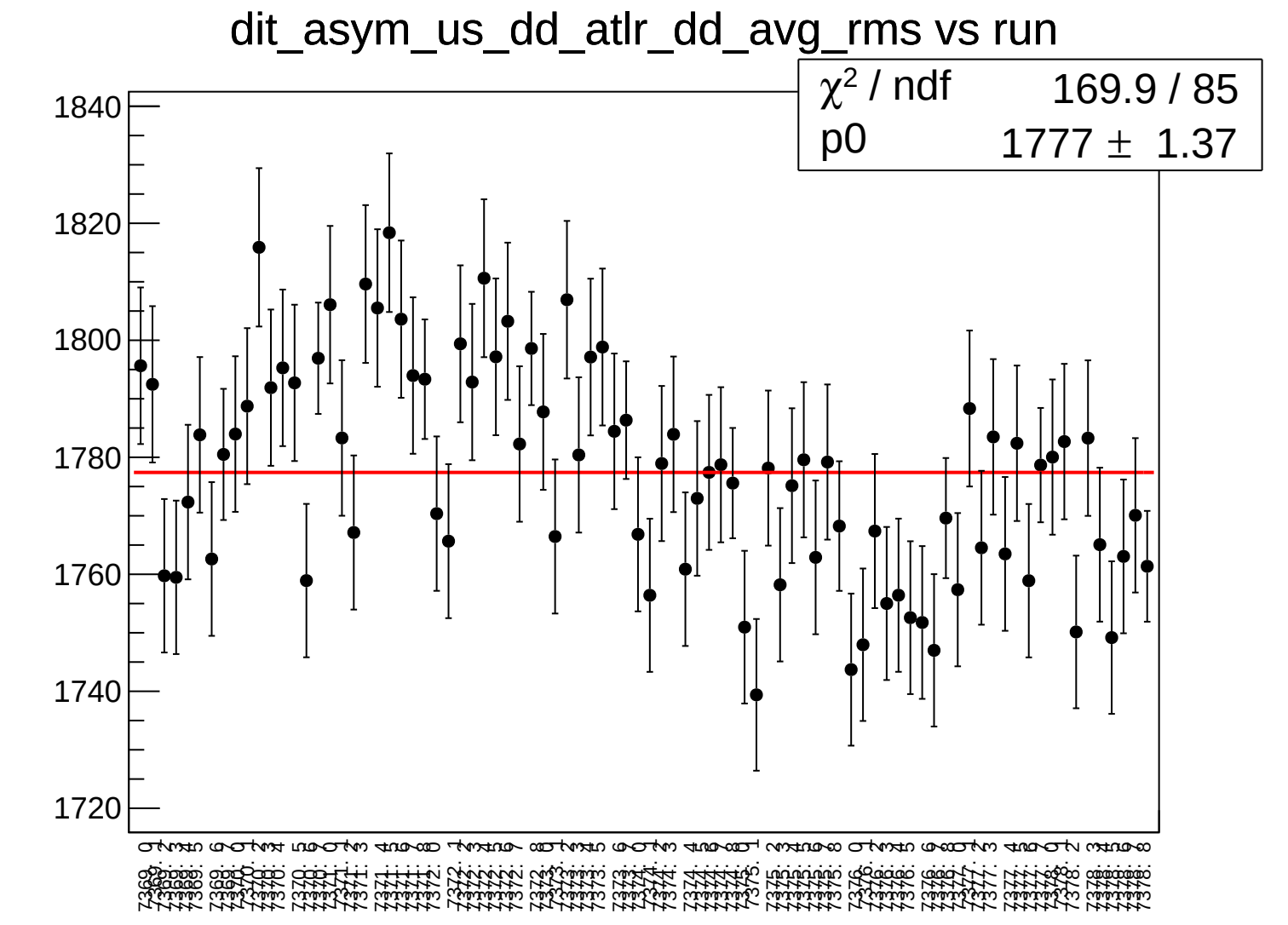

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.17 / 85
p0 435.5 ± 596.4
pull
Entries 86
Mean −70.03
Std Dev 0

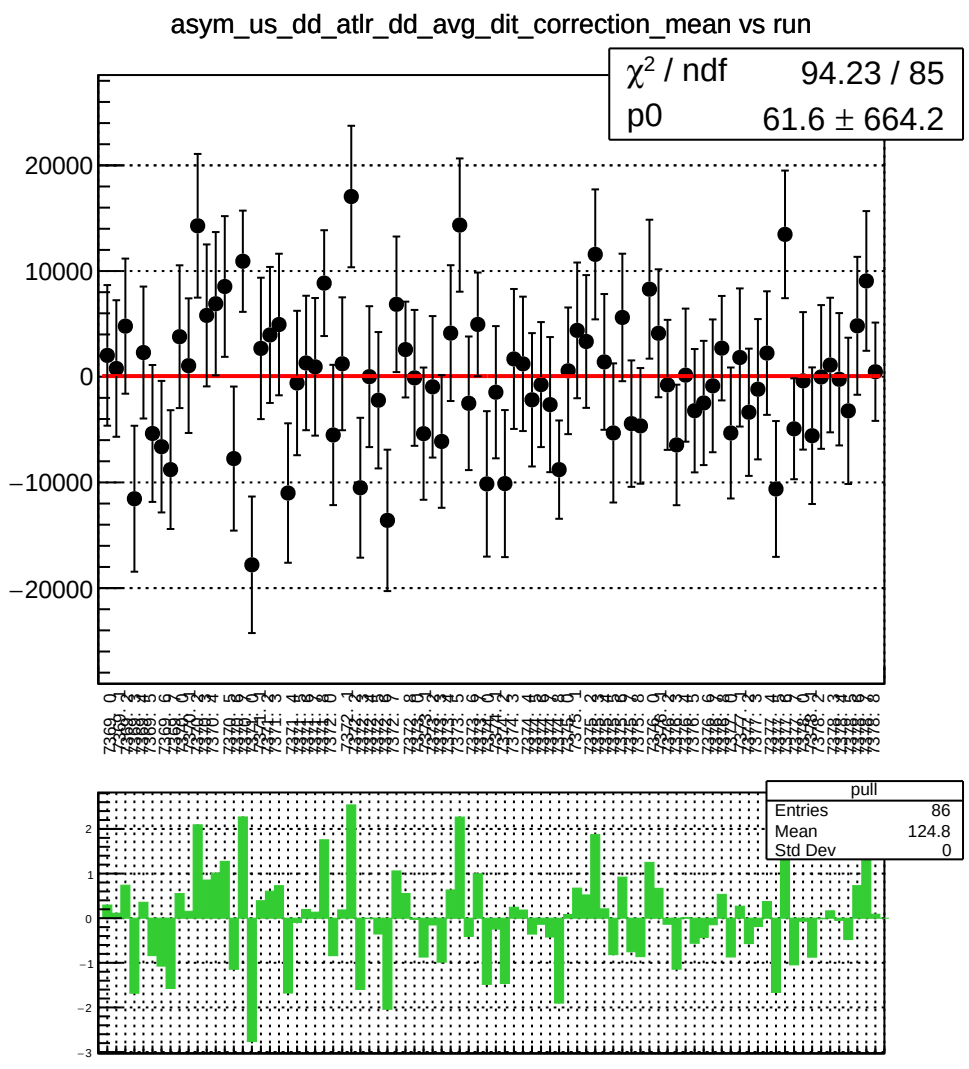

pull1D
Entries 86
Mean −0.003279
Std Dev 1.041

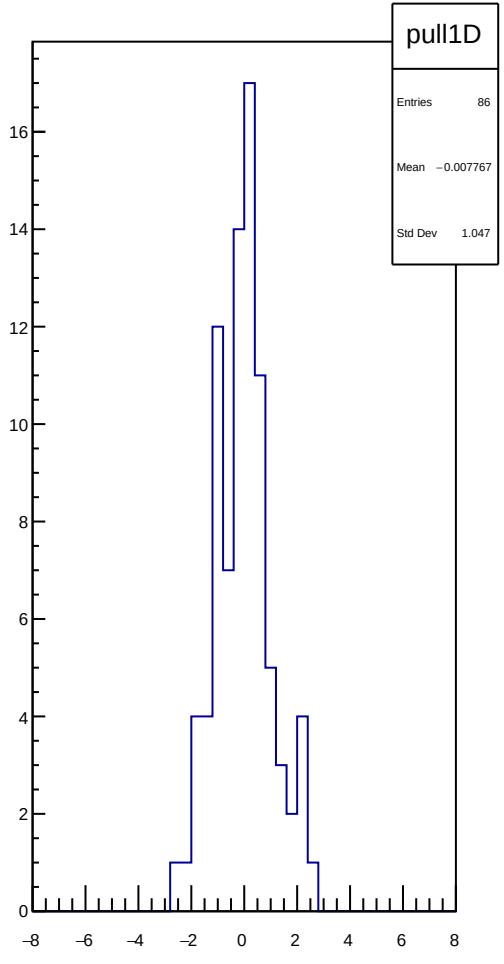

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4174 / 85
p0 546.6 ± 0.4217
620
600
580
560
540
520
500
480

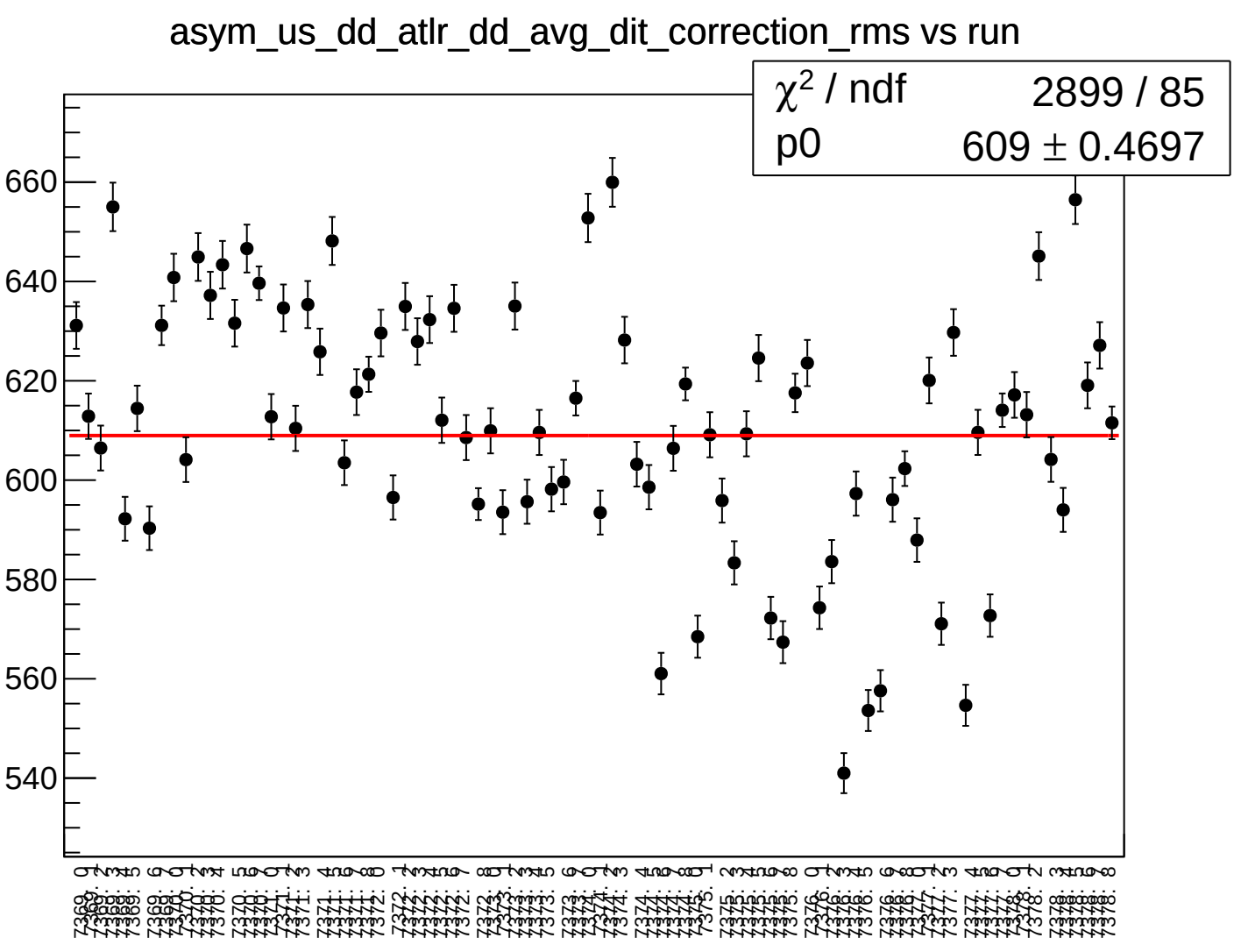

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 97.53 / 85
p0 −1866 ± 1937
pull
Entries 86
Mean 201.8
Std Dev 0

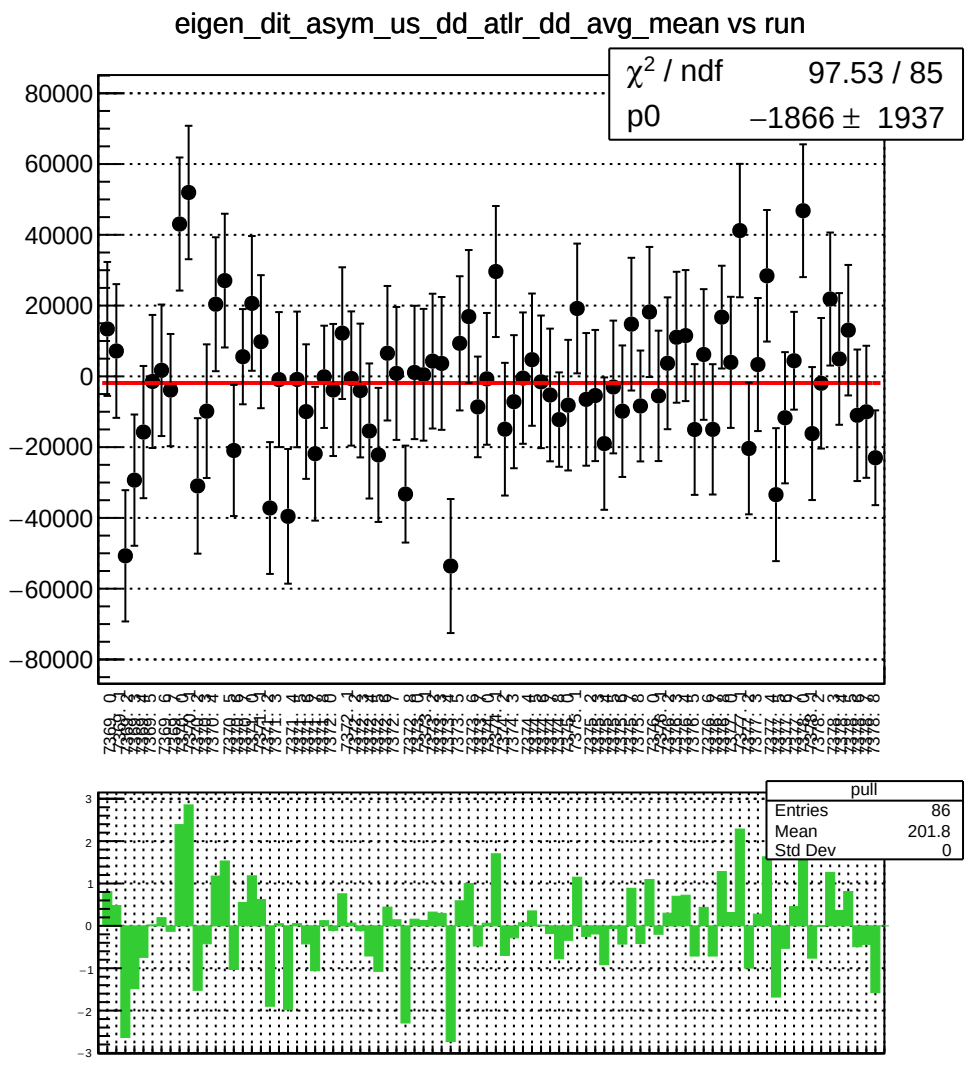

pull1D
Entries 86
Mean 0.01434
Std Dev 1.065

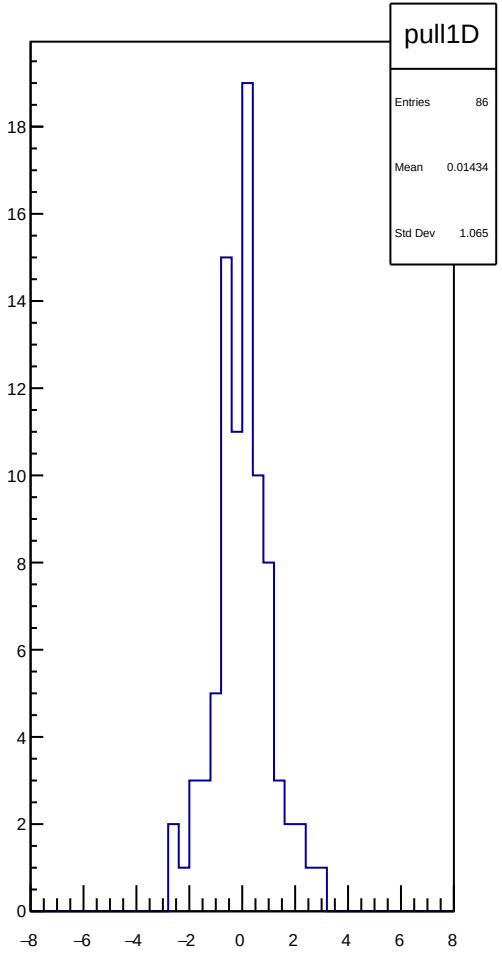

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 169.9 / 85
p0 1777 ± 1.37
1840
1820
1800
1780
1760
1740
1720

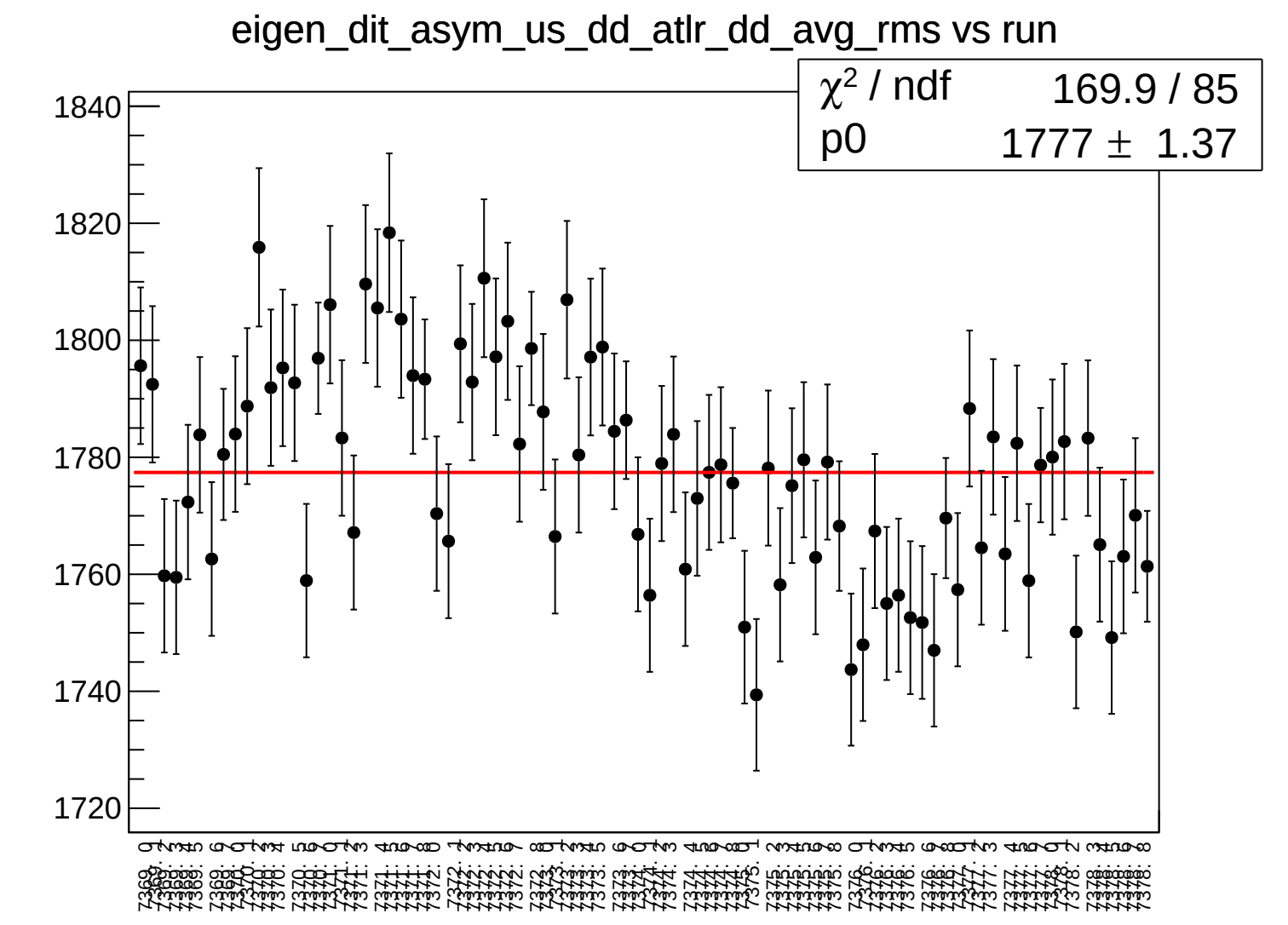

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 94.23 / 85
p0 61.6 ± 664.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 124.8
Std Dev 0
2
1
0
−1
−2
−3

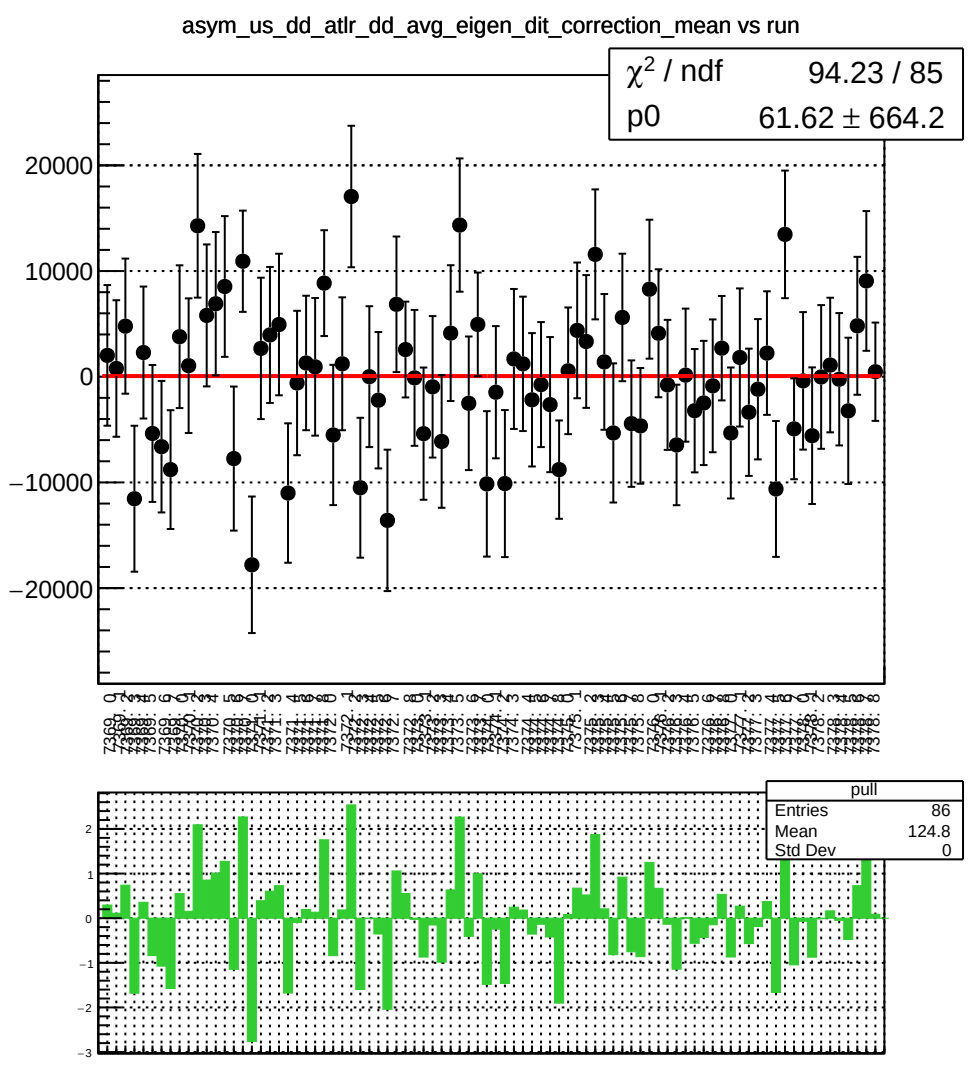

pull1D
Entries 86
Mean −0.007767
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

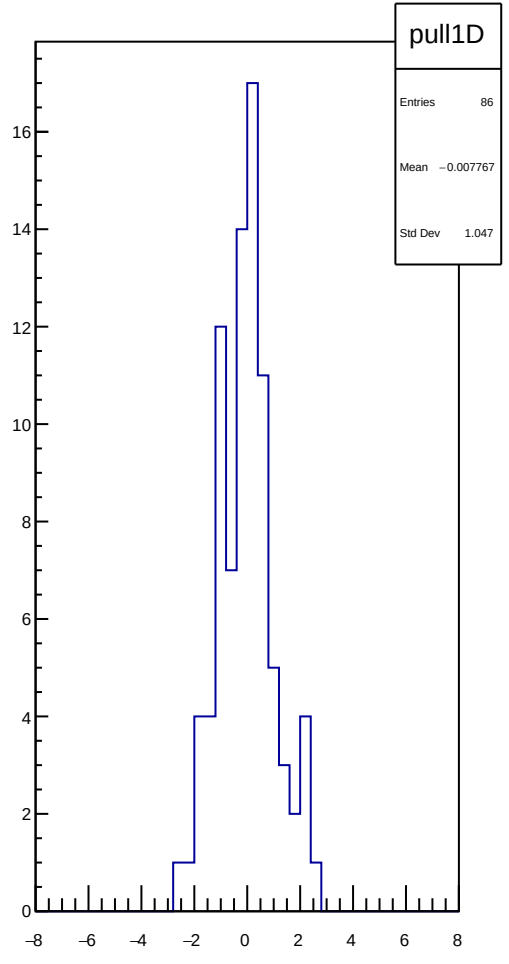

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 2899 / 85
p0 609 ± 0.4697
660
640
620
600
580
560
540

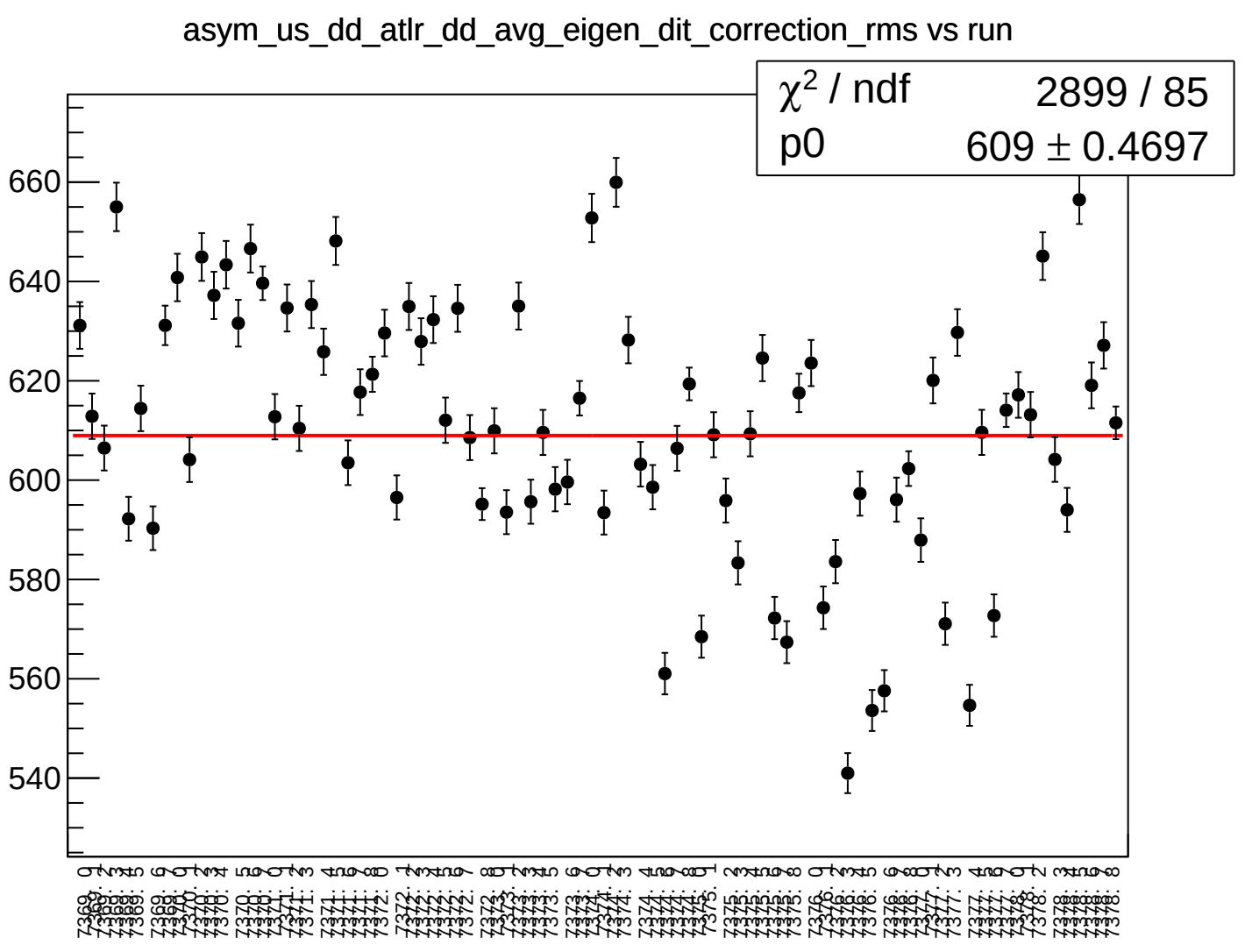

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 97.53 / 85
p0 −1866 ± 1937
pull
Entries 86
Mean 201.8
Std Dev 0

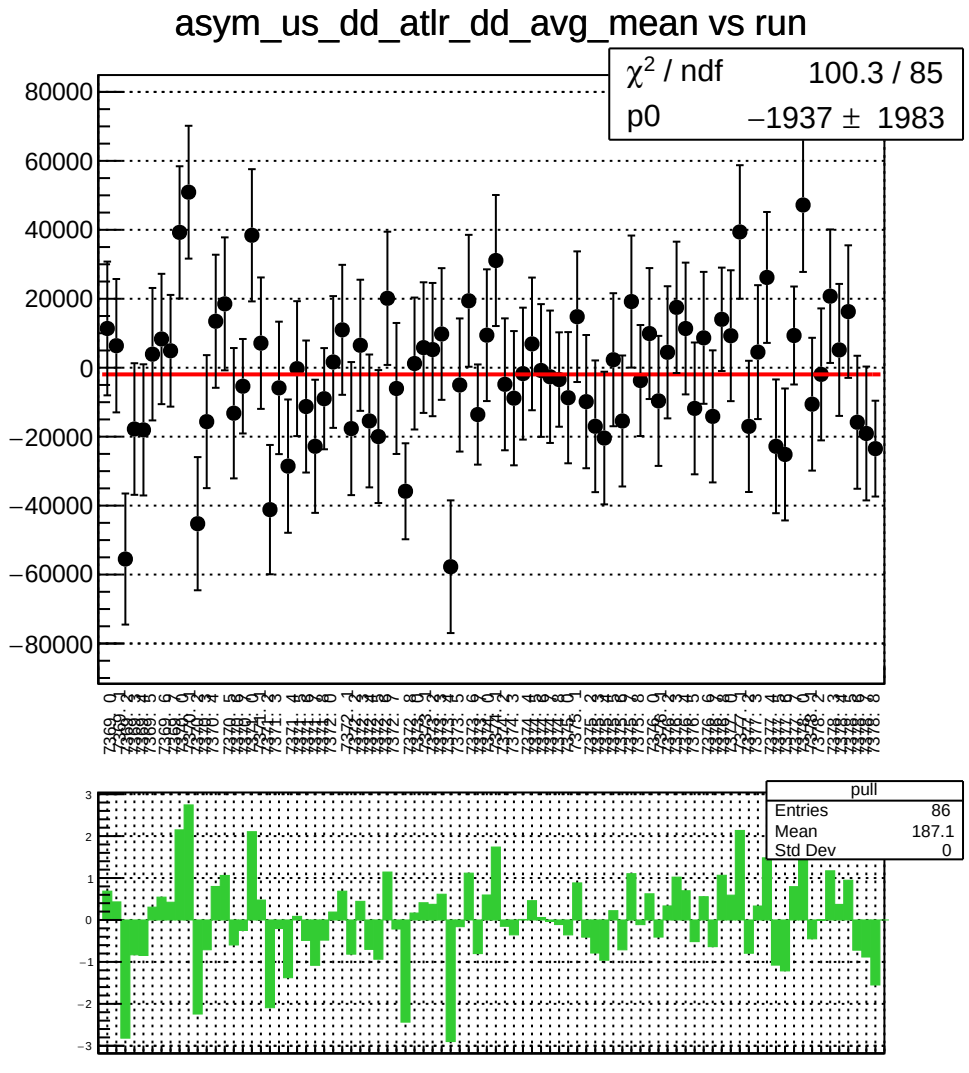

pull1D
Entries 86
Mean 0.01434
Std Dev 1.065

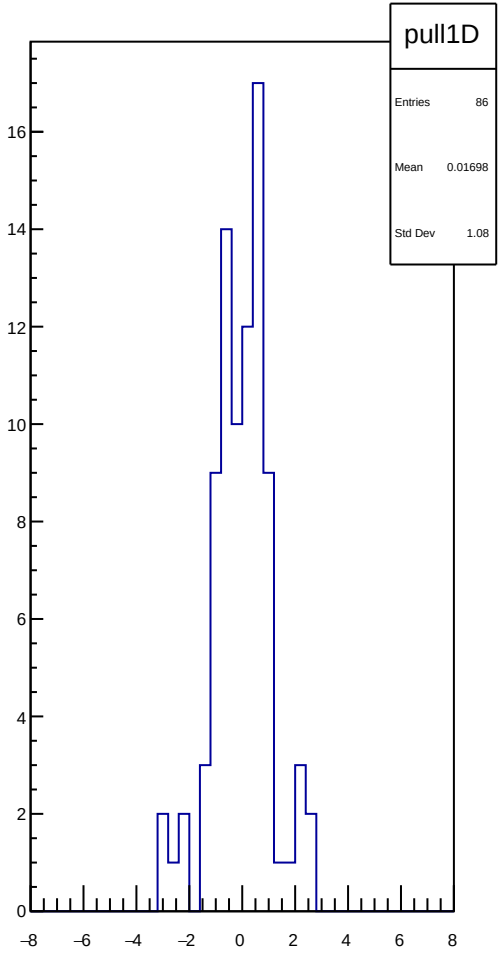

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 169.9 / 85
p0 1777 ± 1.37
1840
1820
1800
1780
1760
1740
1720

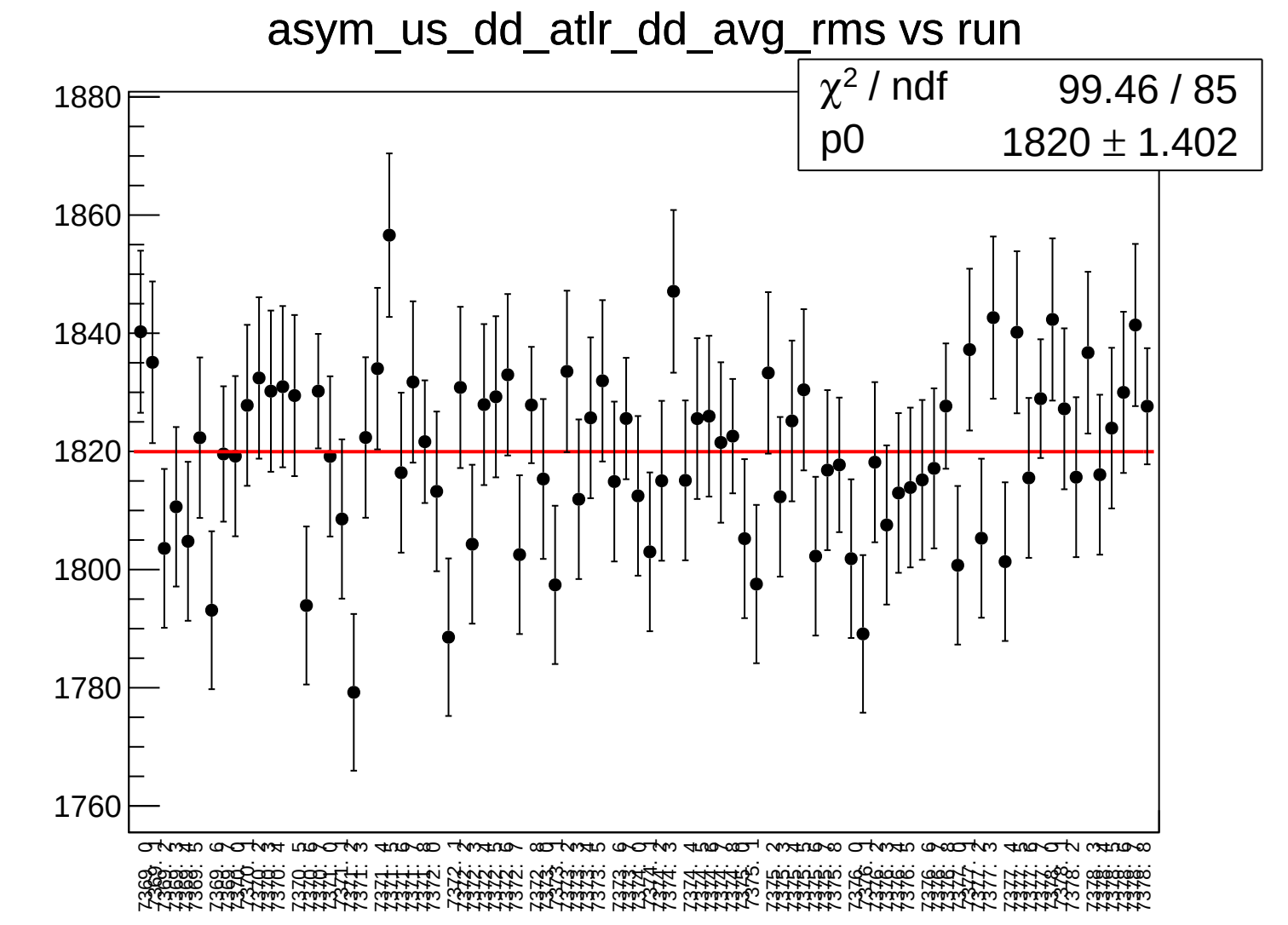

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.23 / 85
p0 61.62 ± 664.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 124.8
Std Dev 0
2
1
0
−1
−2
−3

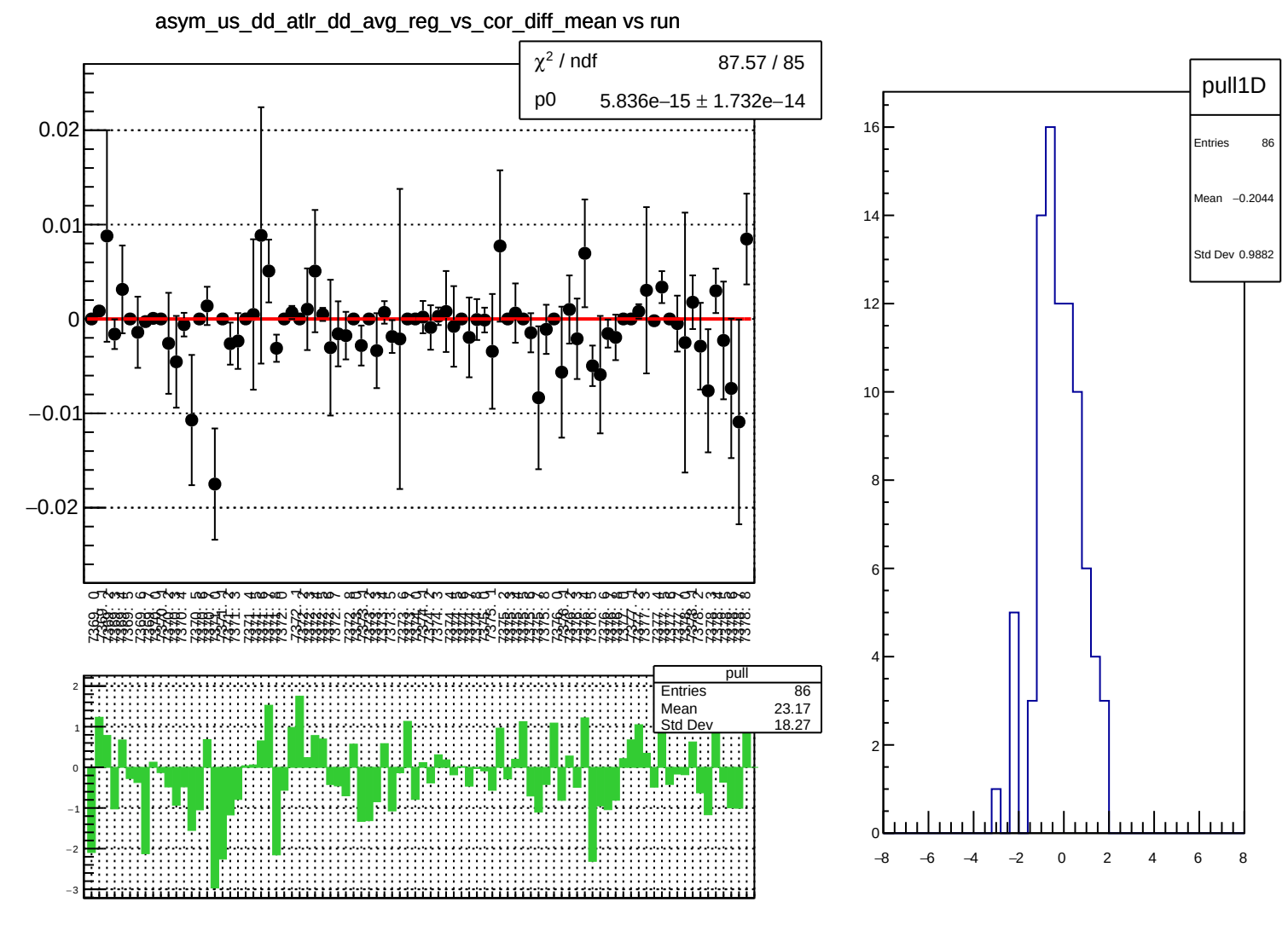

pull1D
Entries 86
Mean −0.007767
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

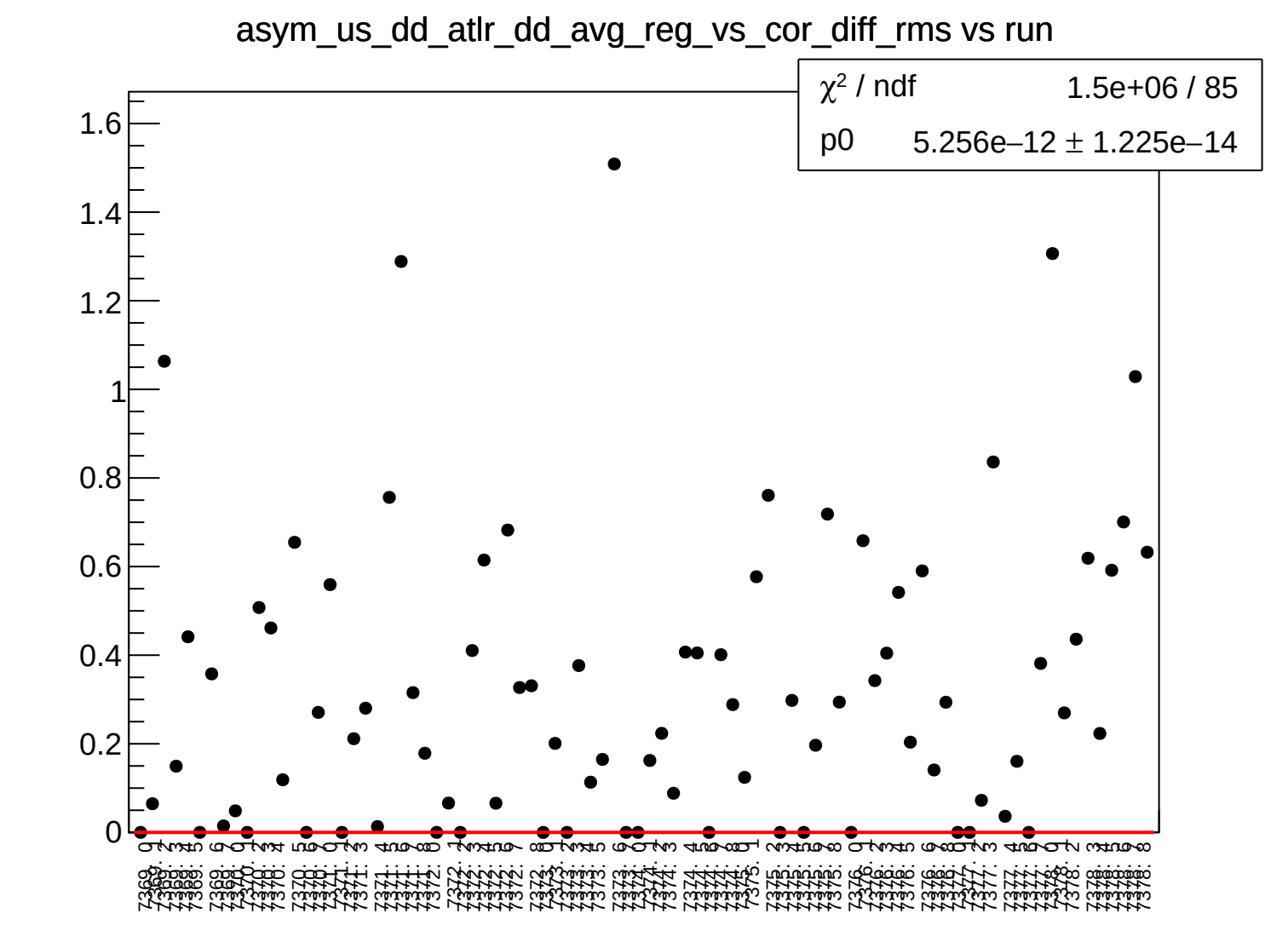

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2899 / 85
p0 609 ± 0.4697
660
640
620
600
580
560
540

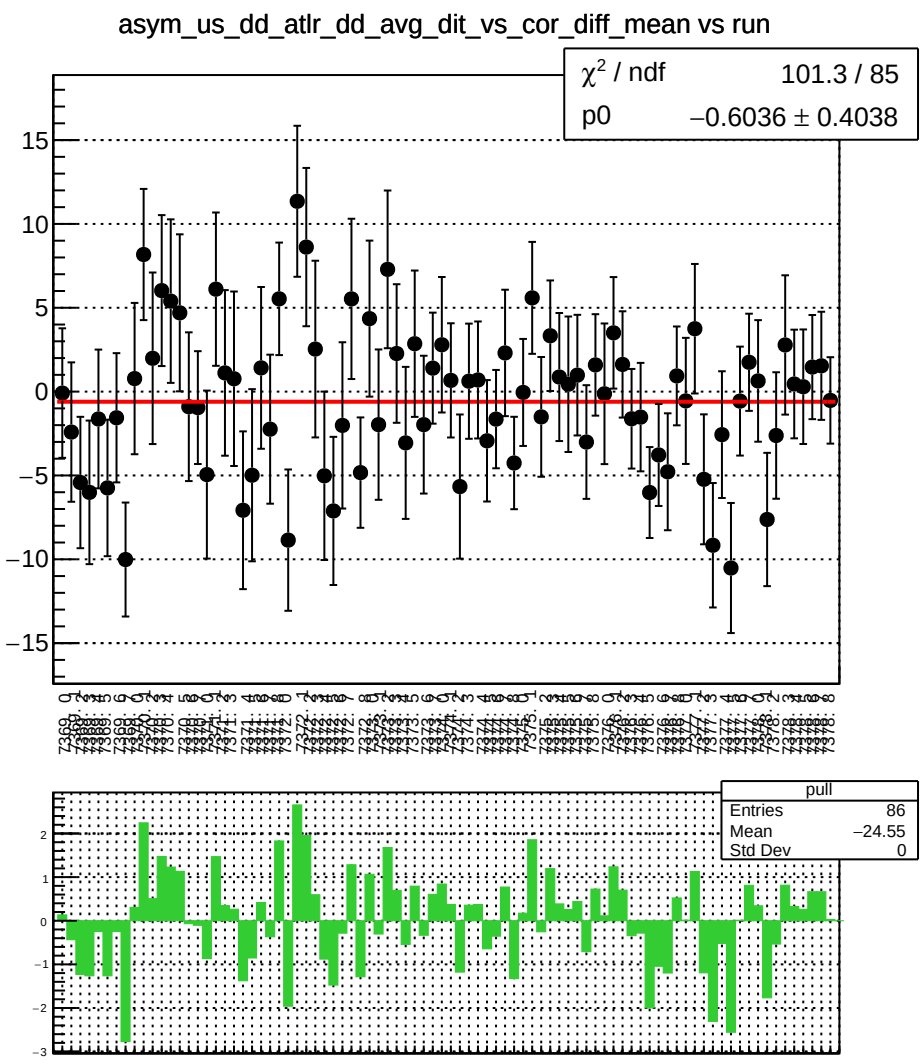

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 100.3 / 85
p0 −1937 ± 1983
pull
Entries 86
Mean 187.1
Std Dev 0

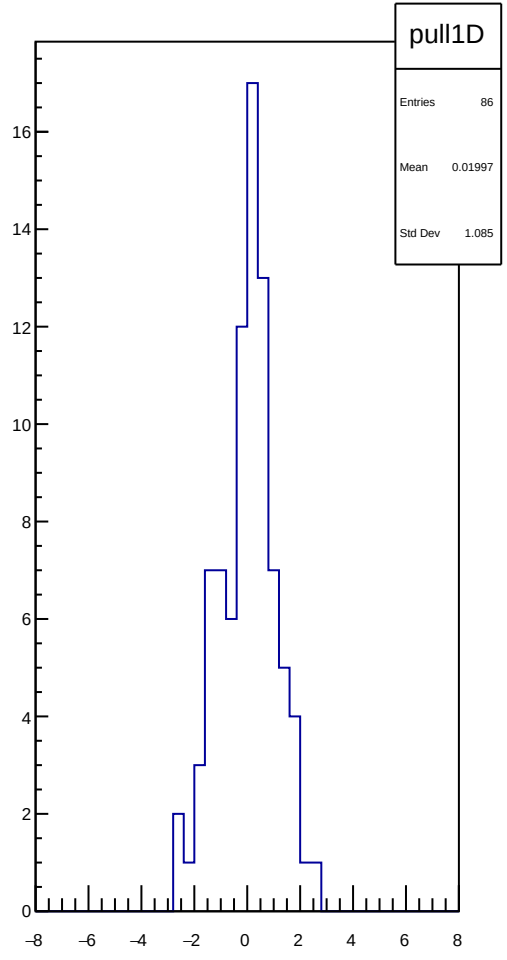

pull1D
Entries 86
Mean 0.01698
Std Dev 1.08

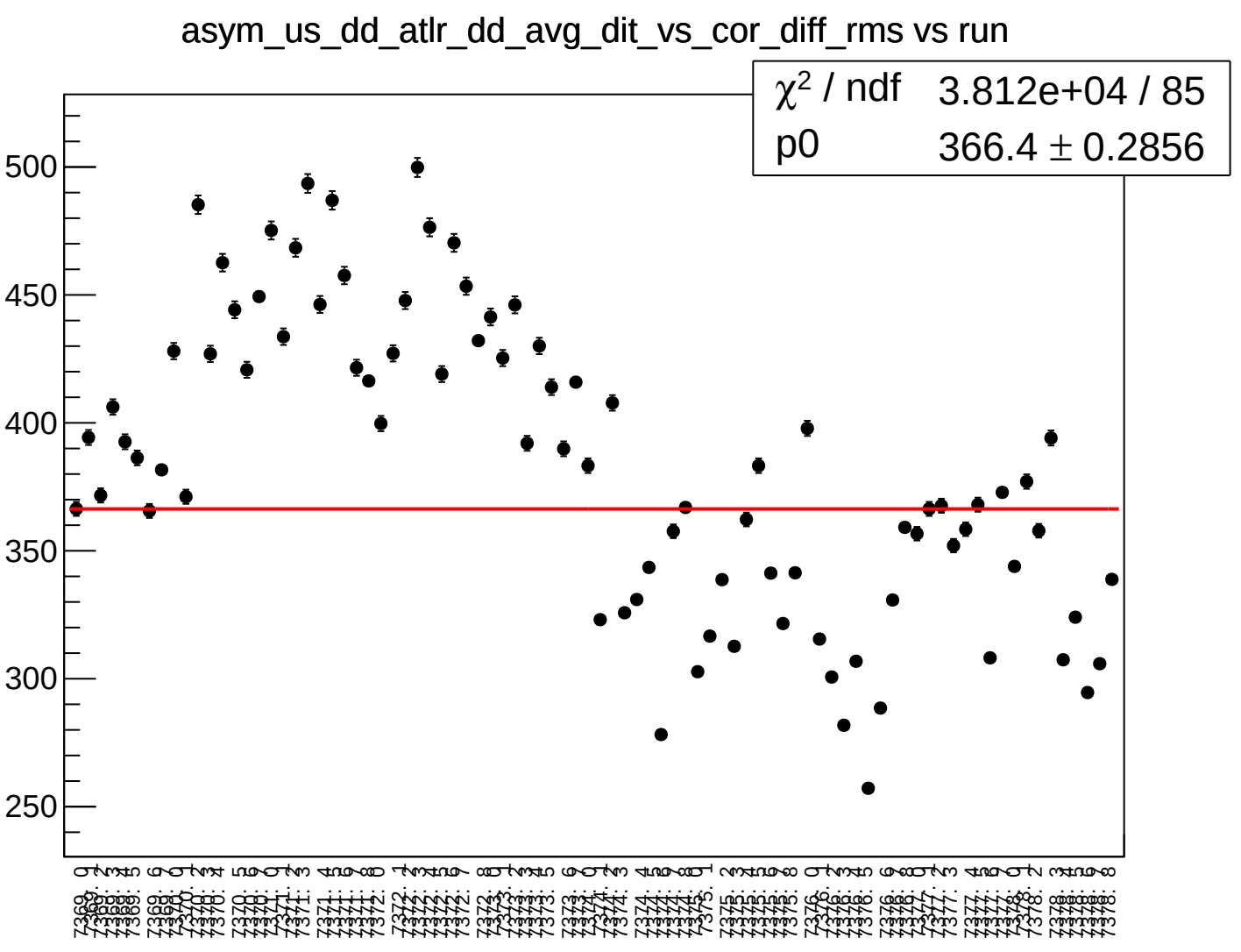

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 99.46 / 85
p0 1820 ± 1.402
1880
1860
1840
1820
1800
1780
1760

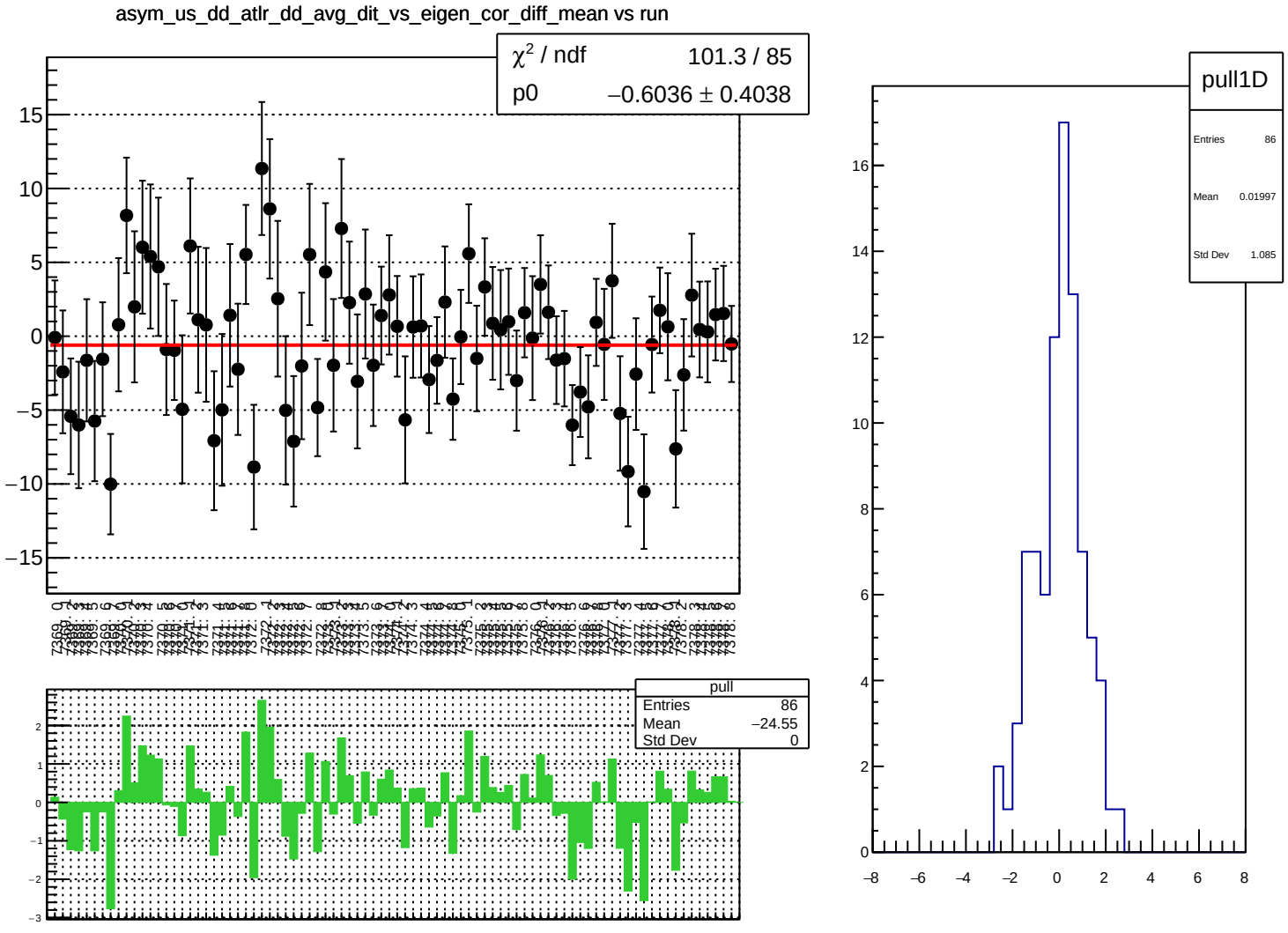

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.57 / 85
p0 5.836e−15 ± 1.732e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 23.17
Std Dev 18.27
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.2044
Std Dev 0.9882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

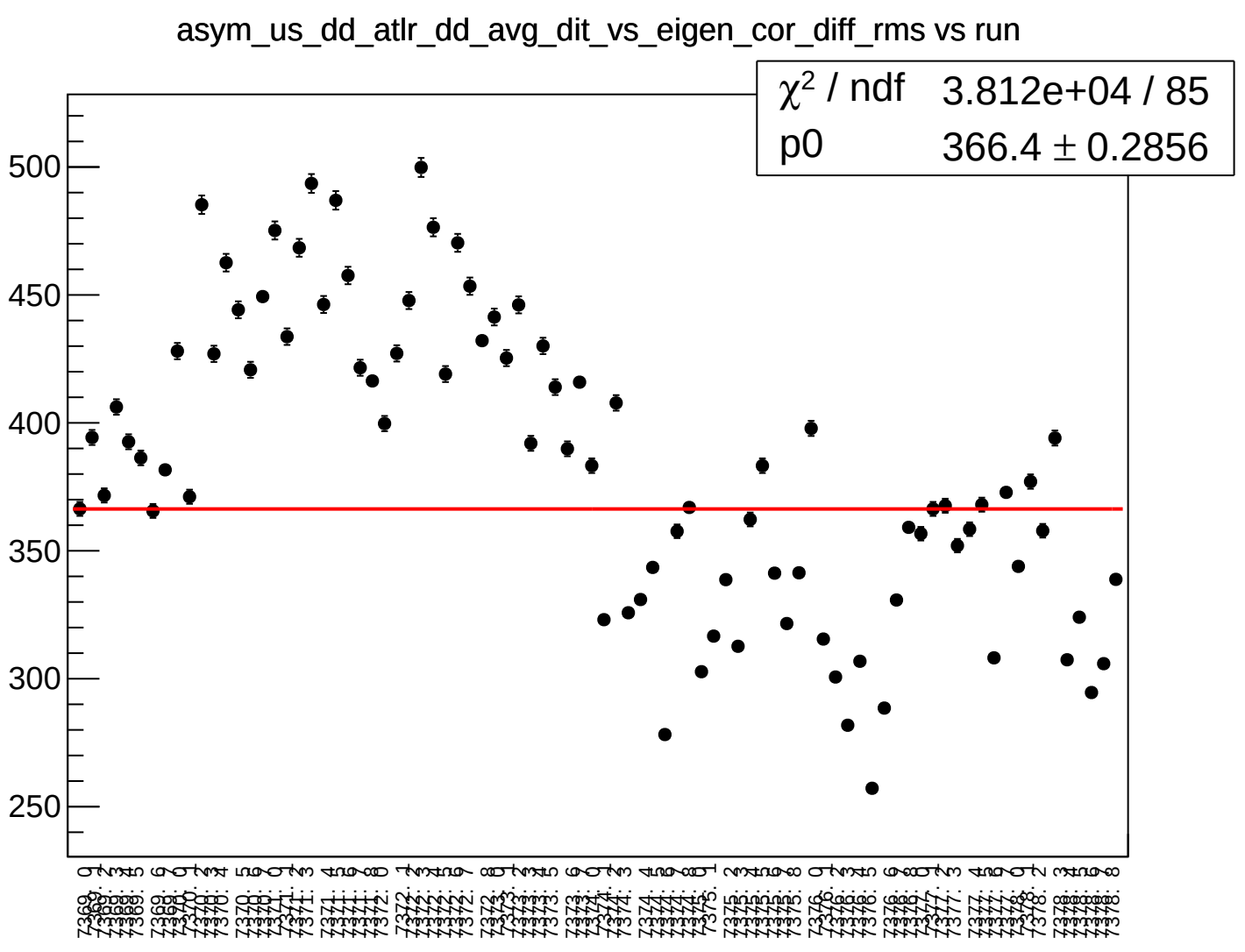

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.5e+06 / 85
p0 5.256e−12 ± 1.225e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

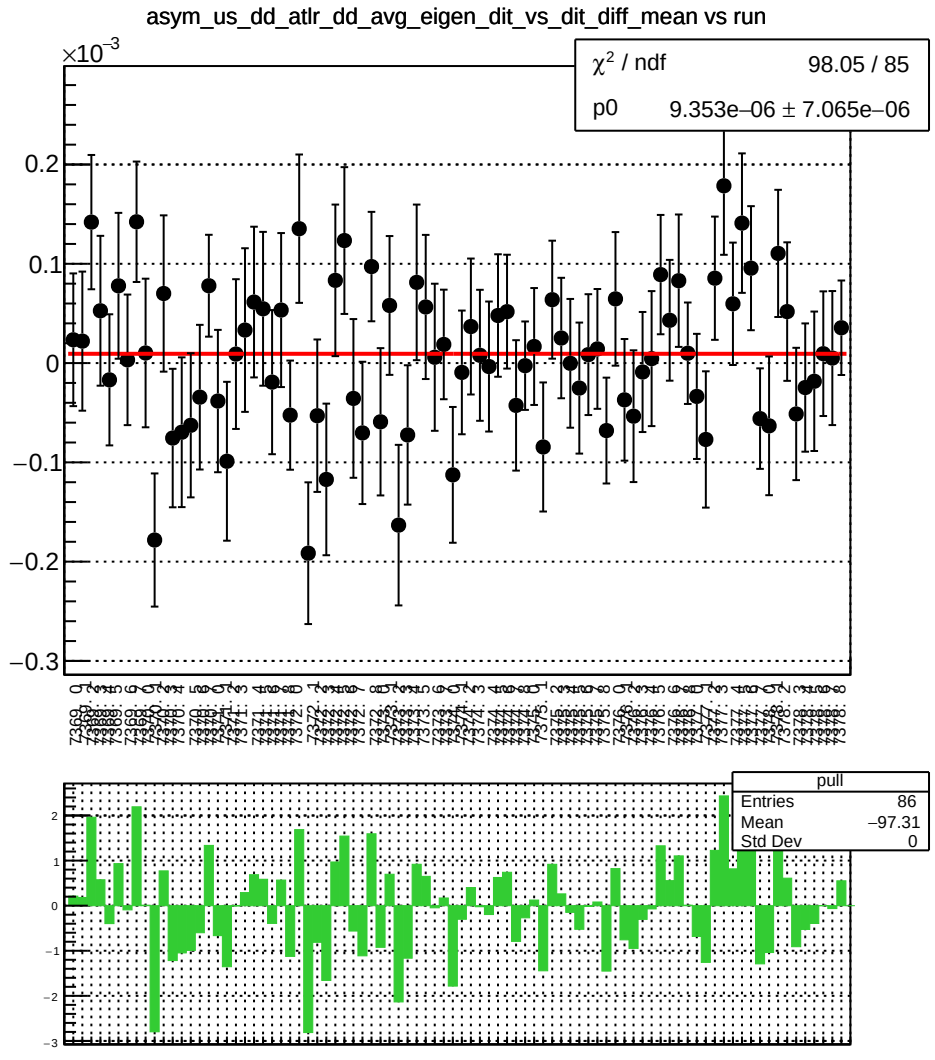

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 85
p0 −0.6036 ± 0.4038
pull
Entries 86
Mean −24.55
Std Dev 0

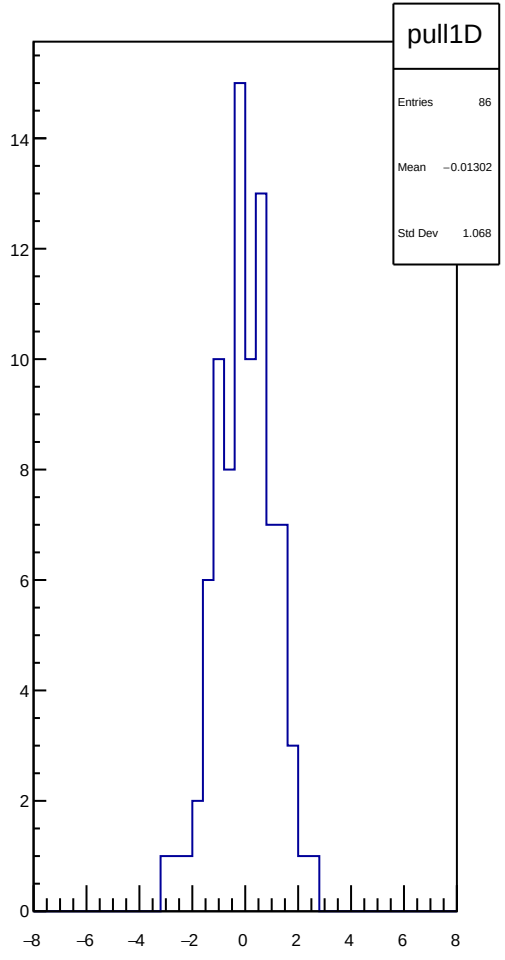

pull1D
Entries 86
Mean 0.01997
Std Dev 1.085

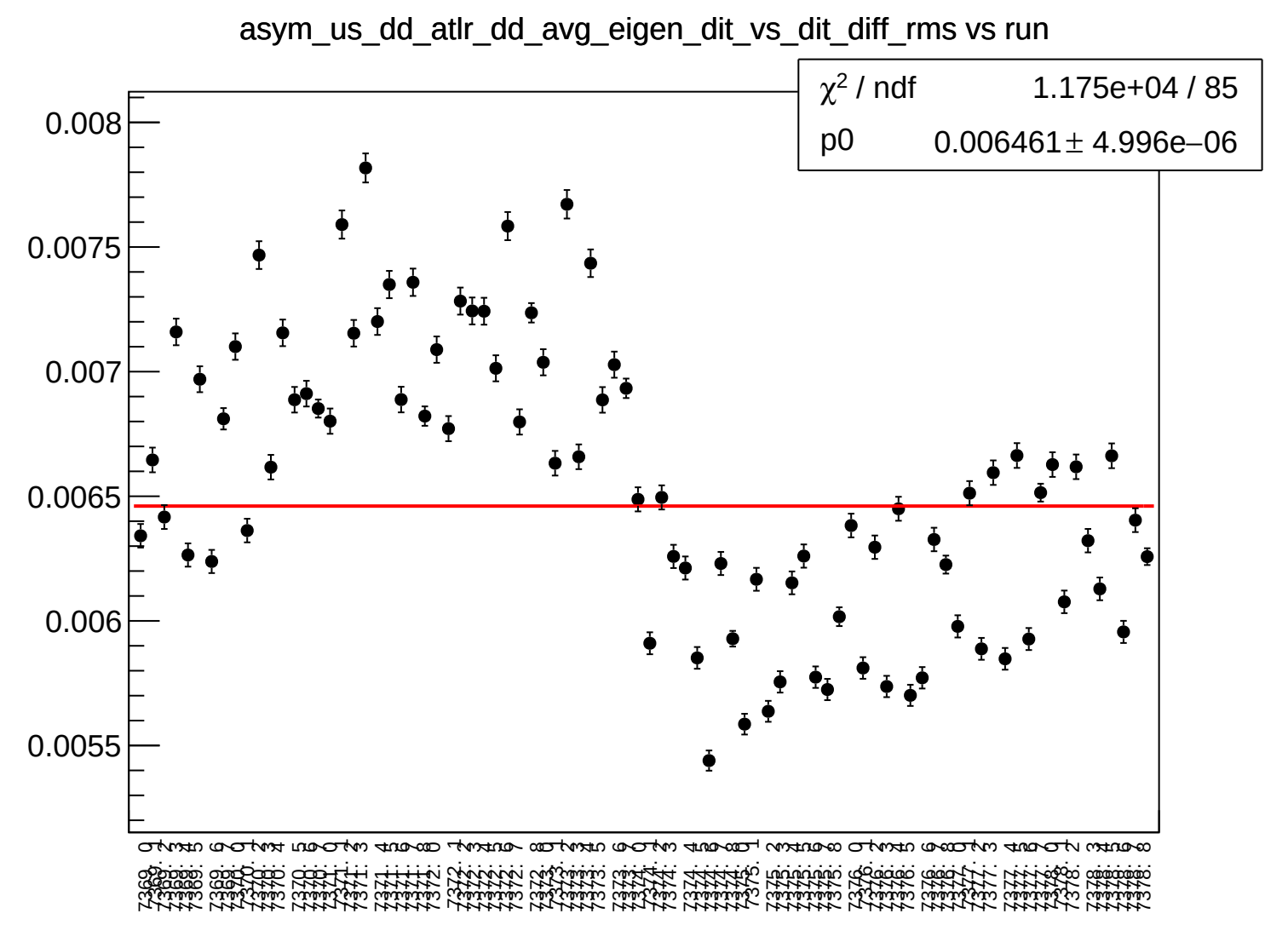

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.812e+04 / 85
p0 366.4 ± 0.2856
500
450
400
350
300
250

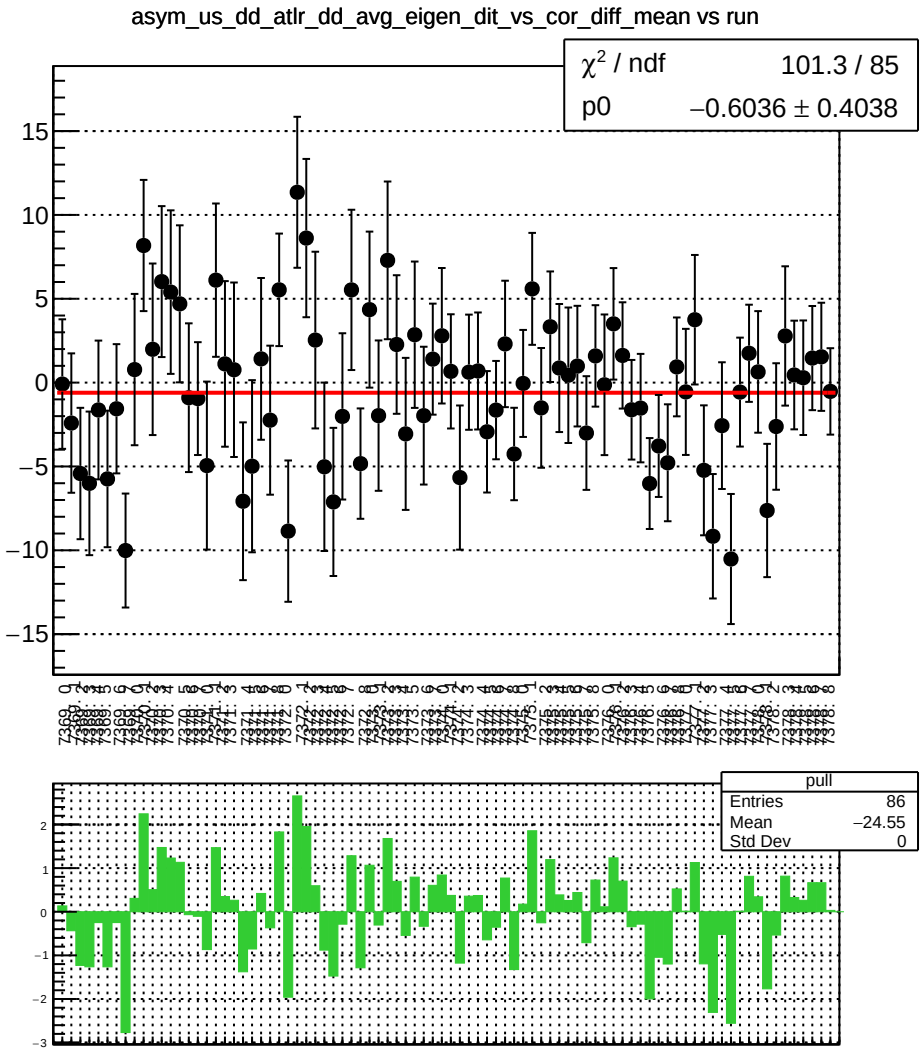

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 85
p0 −0.6036 ± 0.4038
pull
Entries 86
Mean −24.55
Std Dev 0
pull1D
Entries 86
Mean 0.01997
Std Dev 1.085

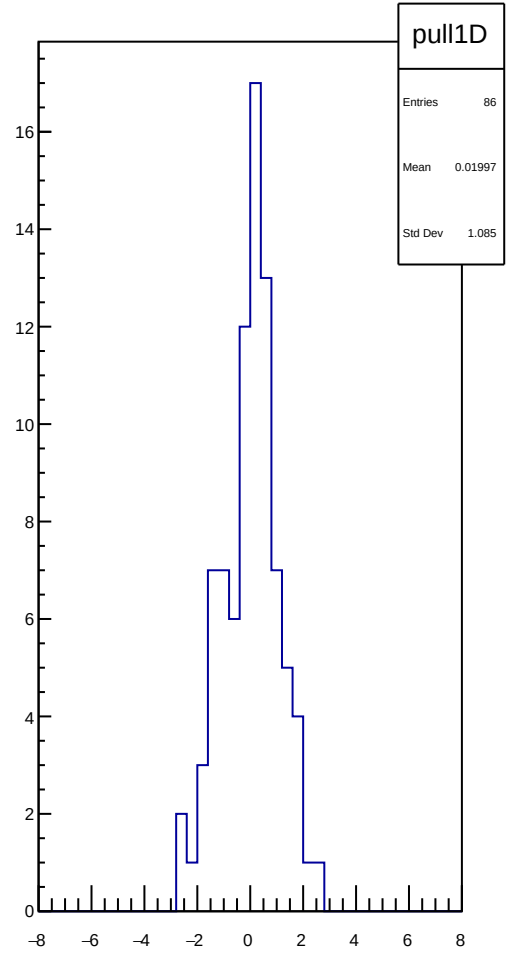

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.812e+04 / 85
p0 366.4 ± 0.2856
500
450
400
350
300
250

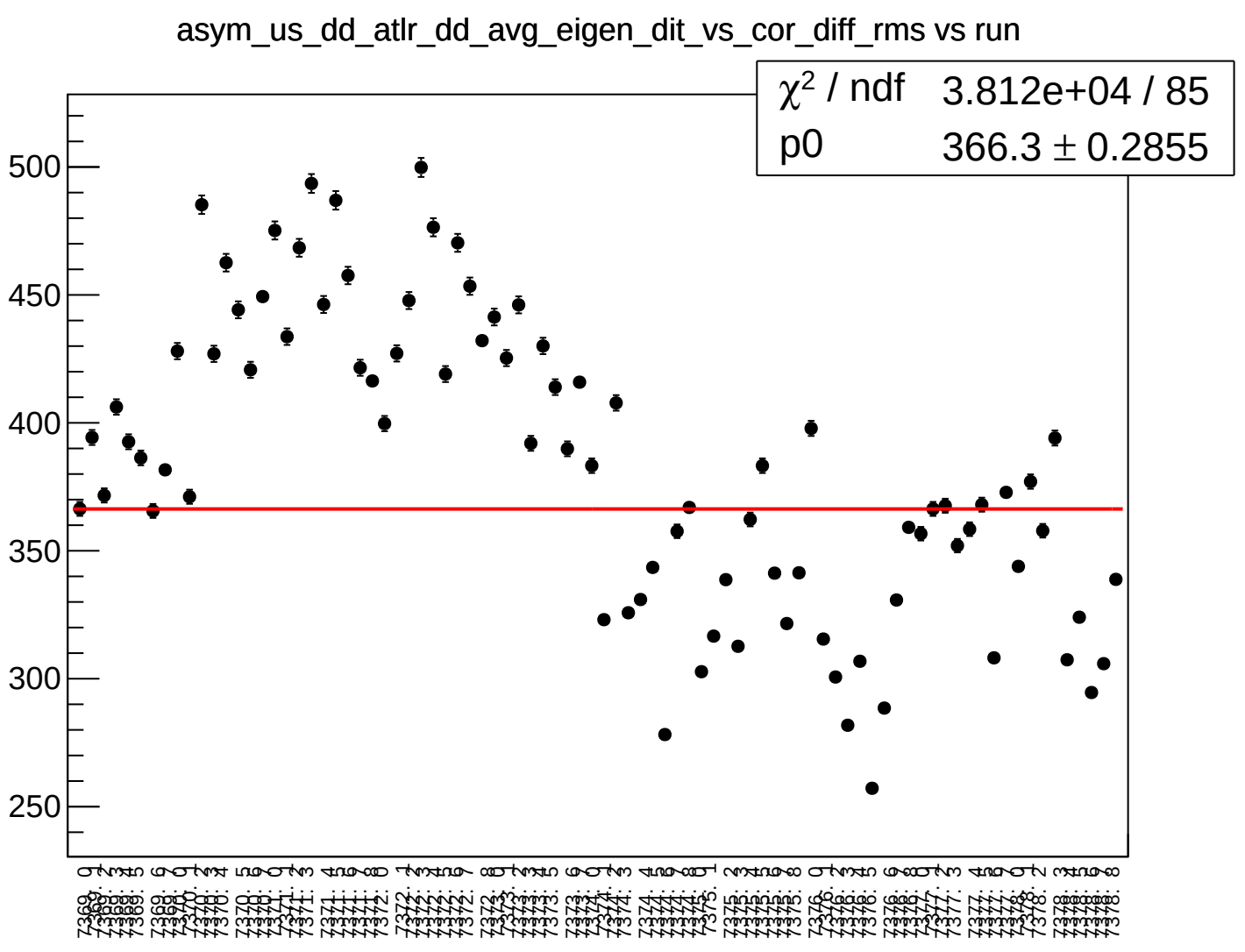

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.05 / 85
p0 9.353e−06 ± 7.065e−06
pull
Entries 86
Mean −97.31
Std Dev 0

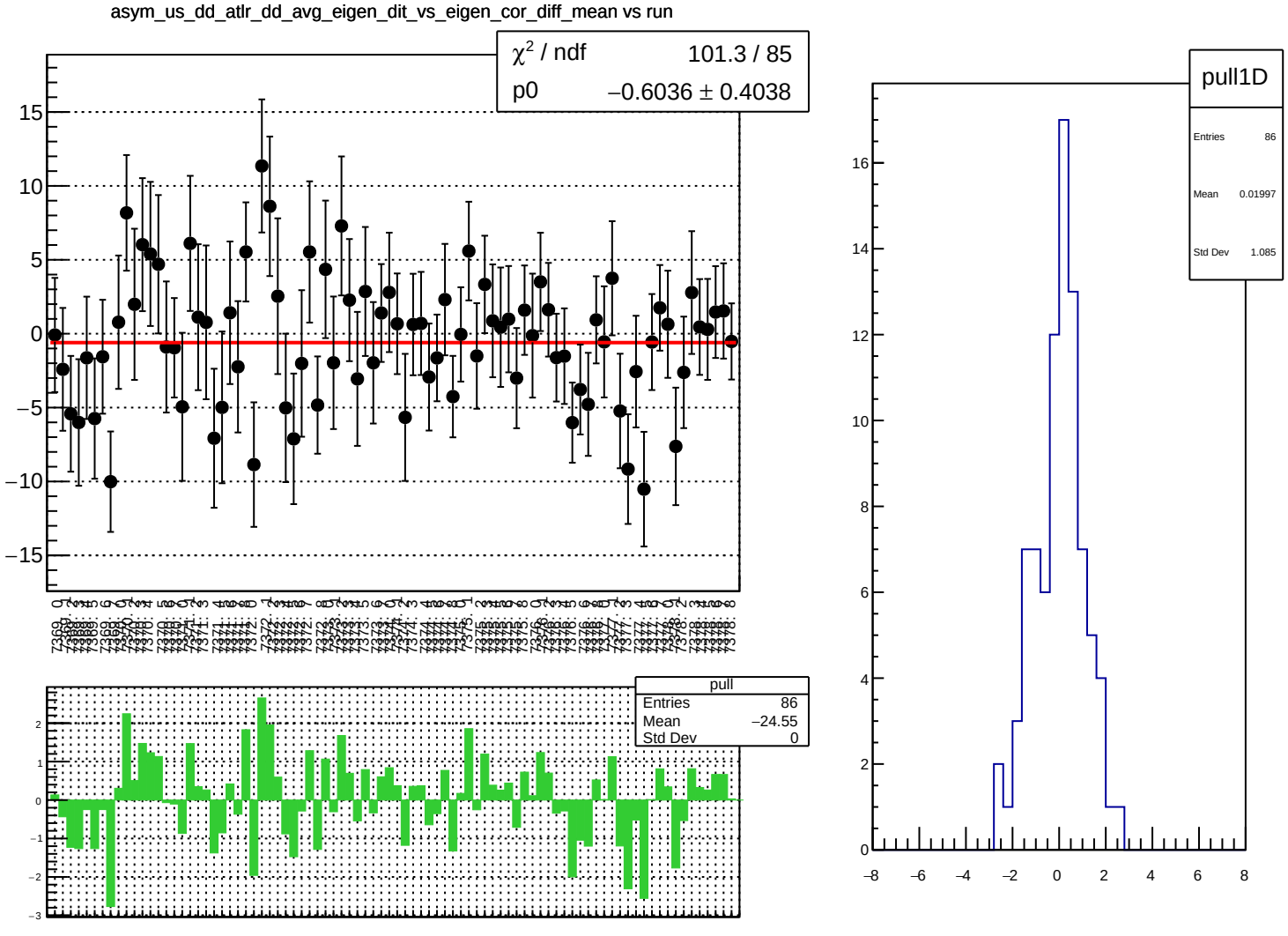

pull1D
Entries 86
Mean −0.01302
Std Dev 1.068

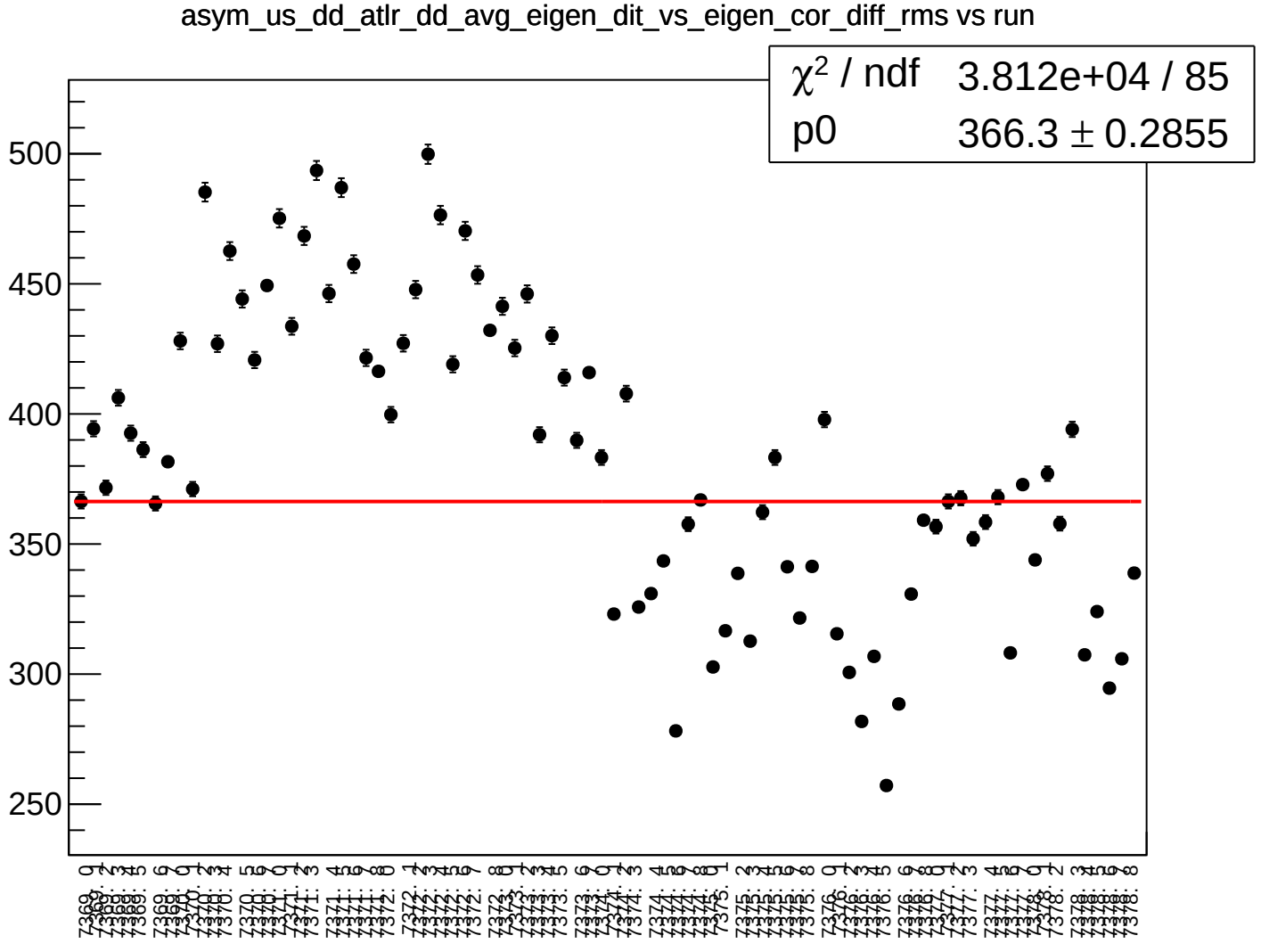

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.175e+04 / 85
p0 0.006461 ± 4.996e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

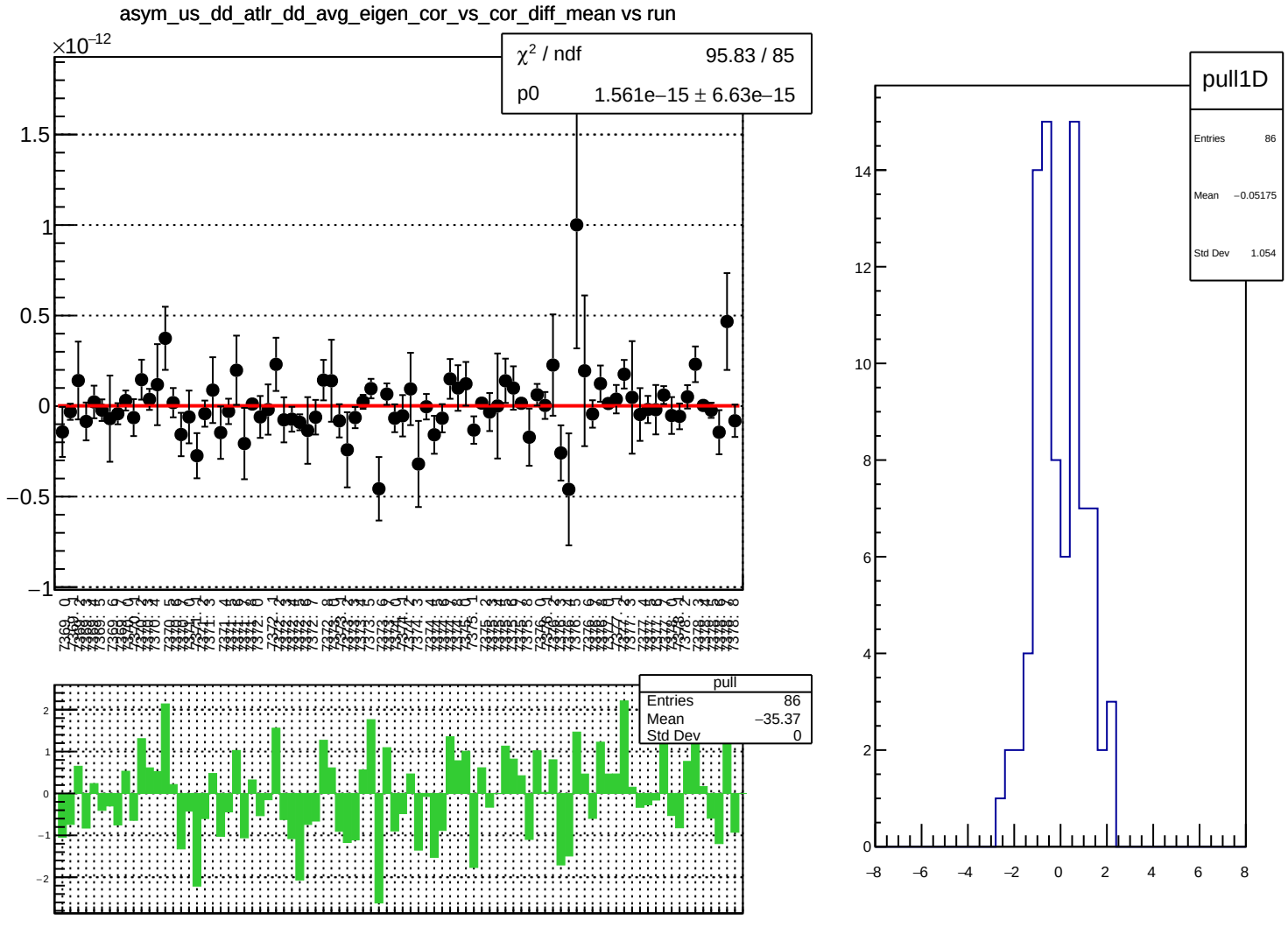

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 85
p0 −0.6036 ± 0.4038
pull
Entries 86
Mean −24.55
Std Dev 0

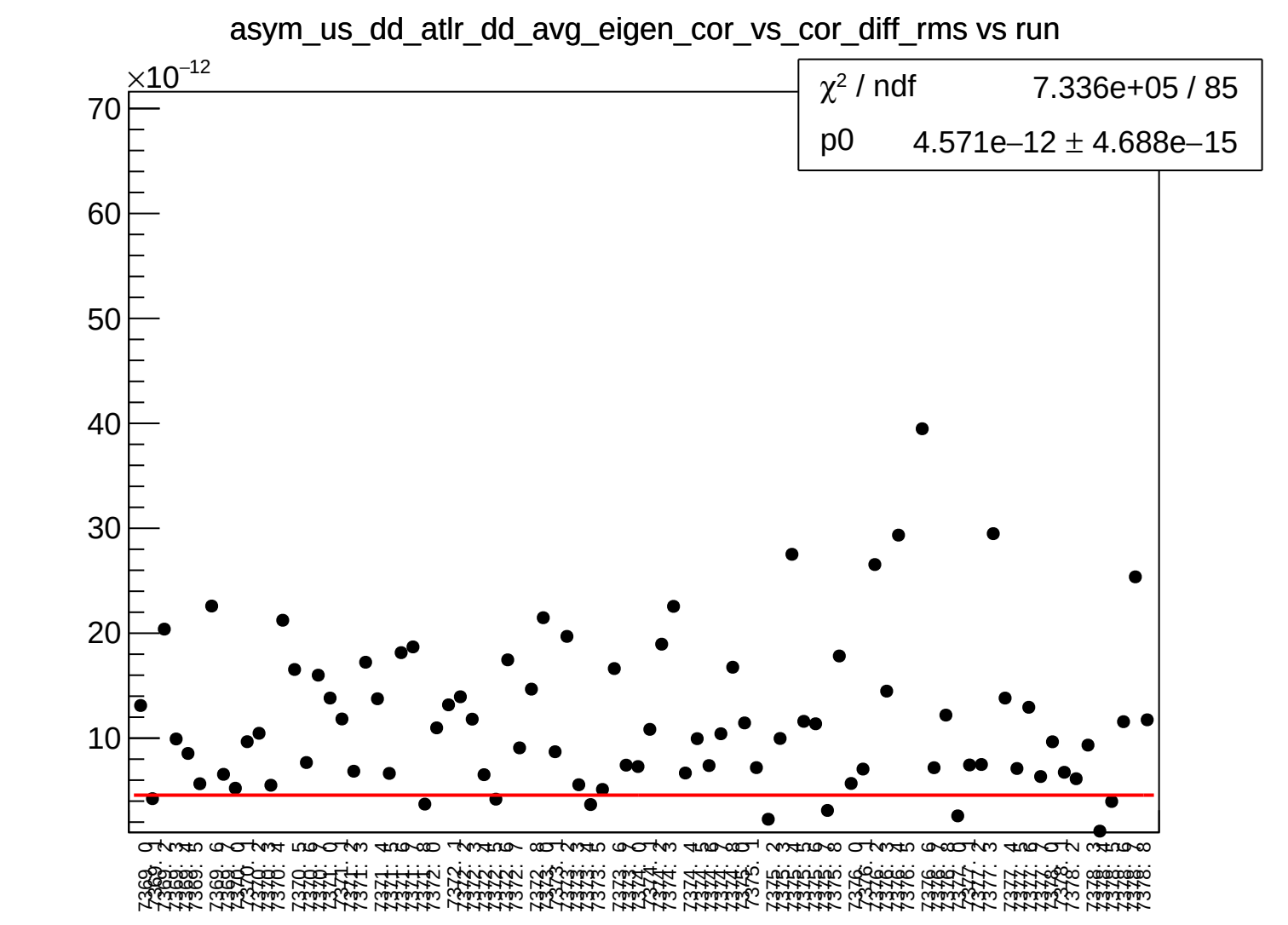

pull1D
Entries 86
Mean 0.01997
Std Dev 1.085

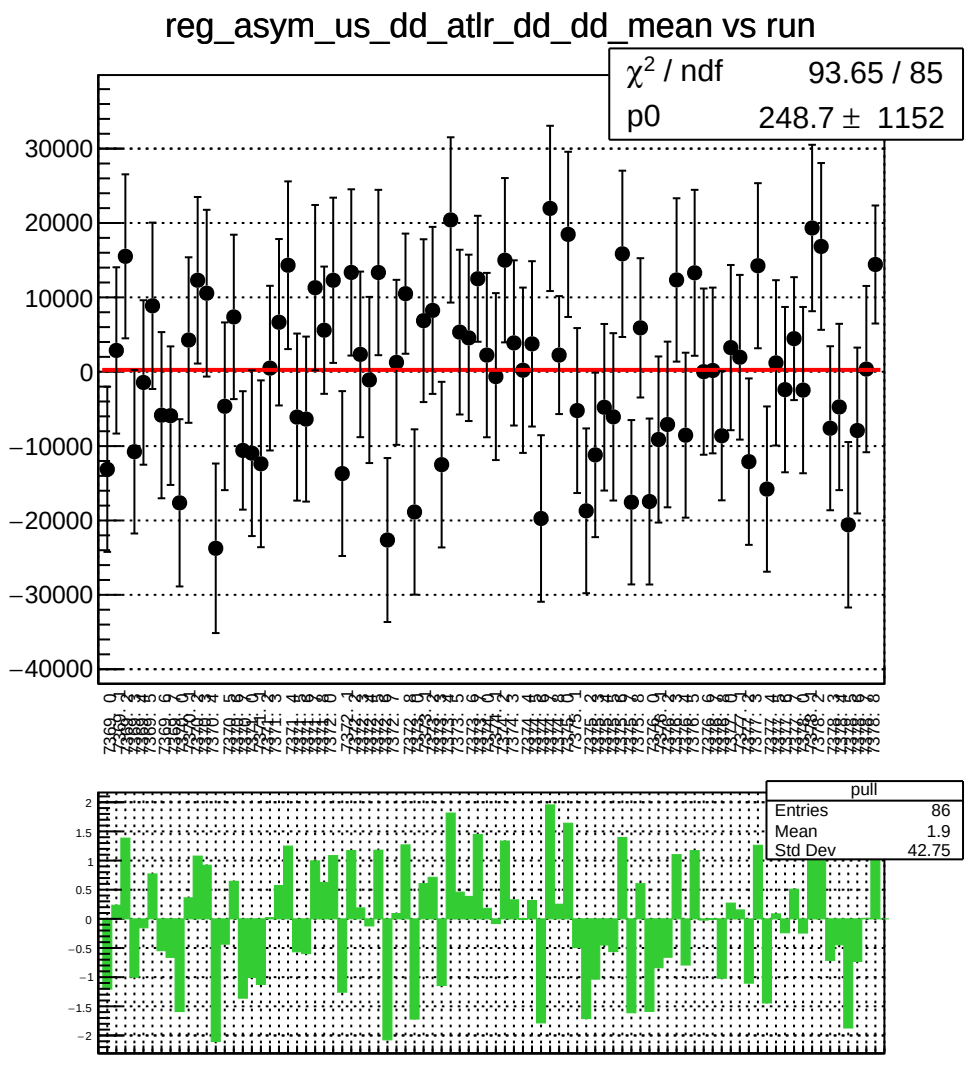

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.812e+04 / 85
p0 366.3 ± 0.2855
500
450
400
350
300
250

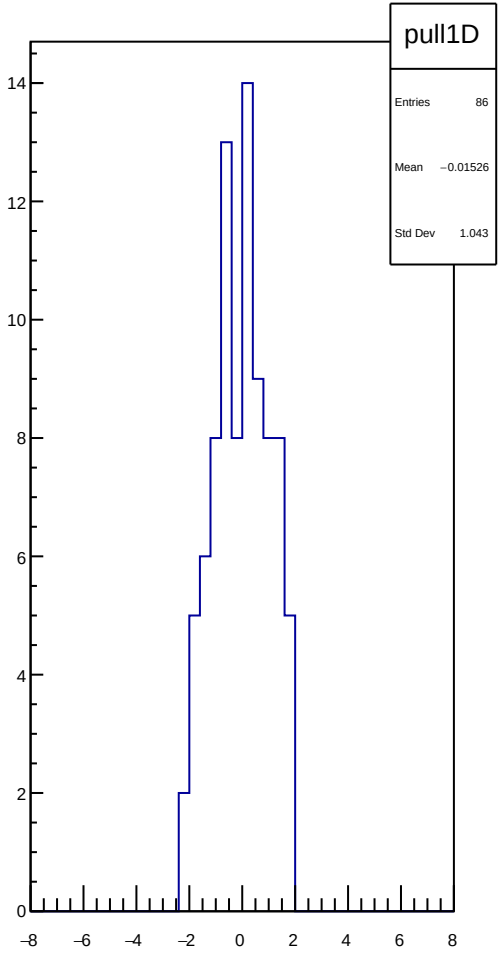

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 85
p0 −0.6036 ± 0.4038
pull
Entries 86
Mean −24.55
Std Dev 0
pull1D
Entries 86
Mean 0.01997
Std Dev 1.085

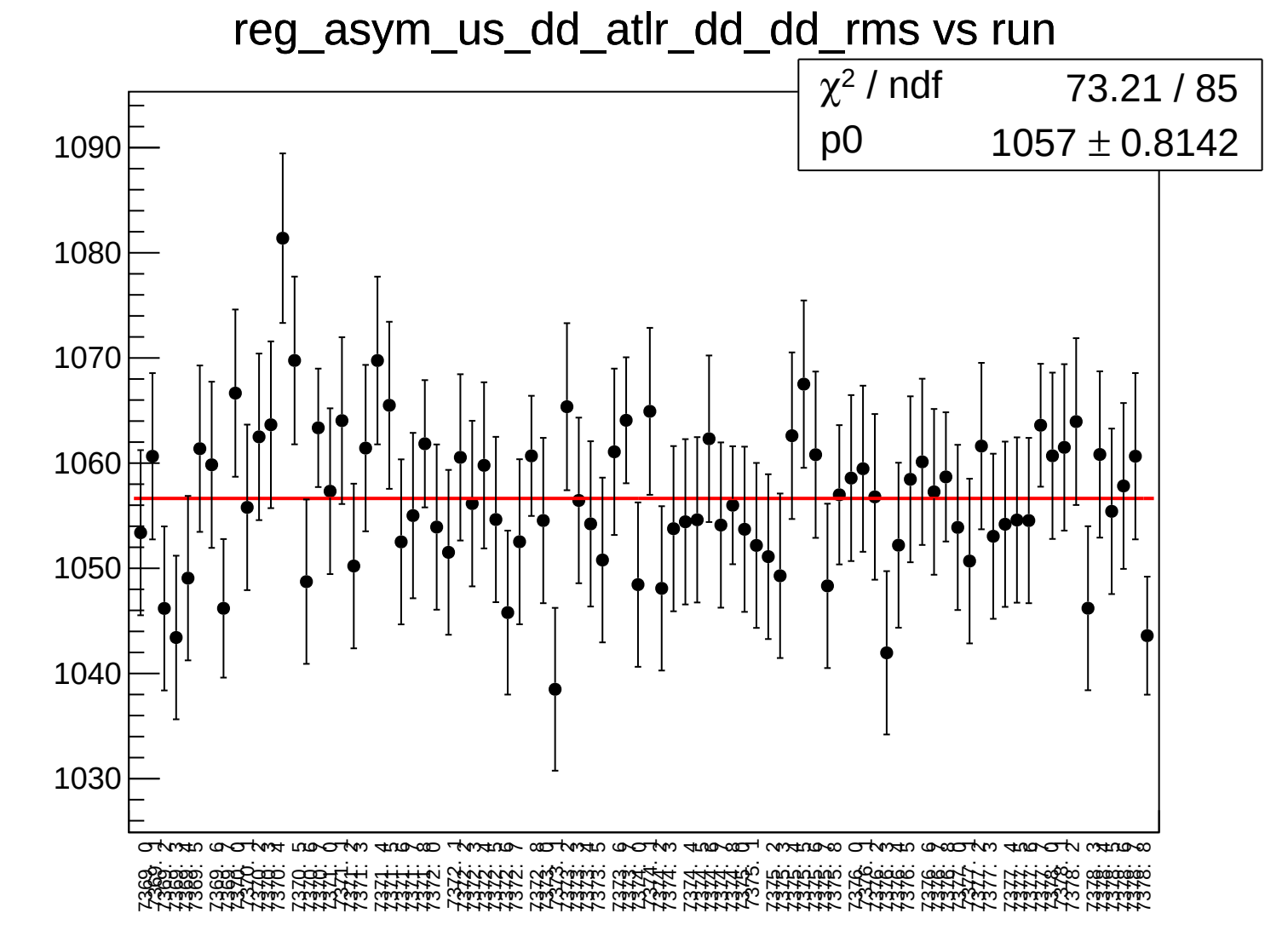

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.812e+04 / 85
p0 366.3 ± 0.2855
500
450
400
350
300
250

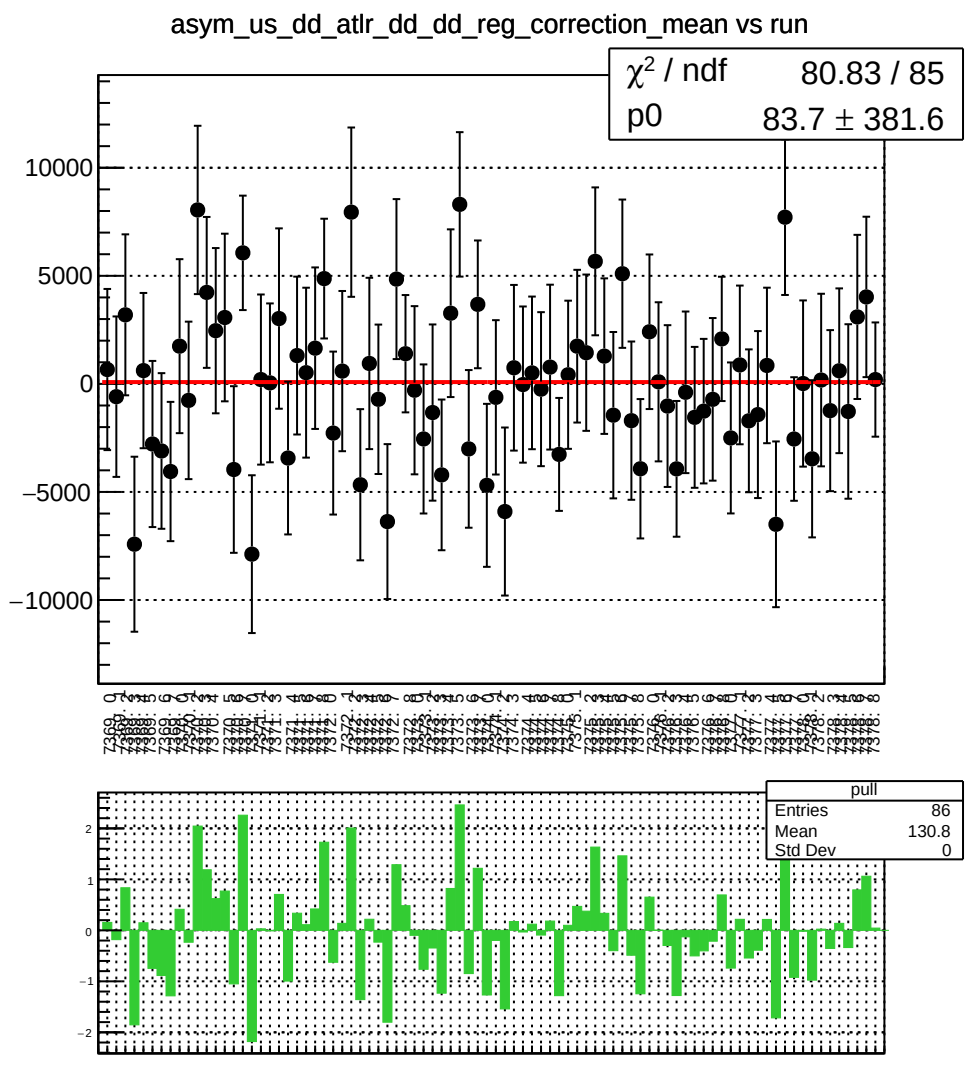

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.83 / 85
p0 1.561e−15 ± 6.63e−15
1.5
1
0.5
0
−0.5
−1
pull
Entries 86
Mean −35.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.05175
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

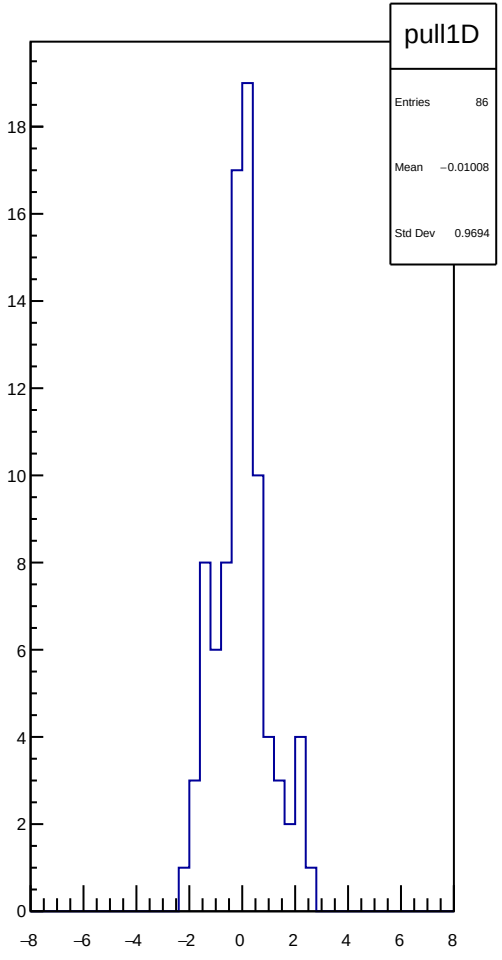

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.336e+05 / 85
p0 4.571e−12 ± 4.688e−15
70
60
50
40
30
20
10

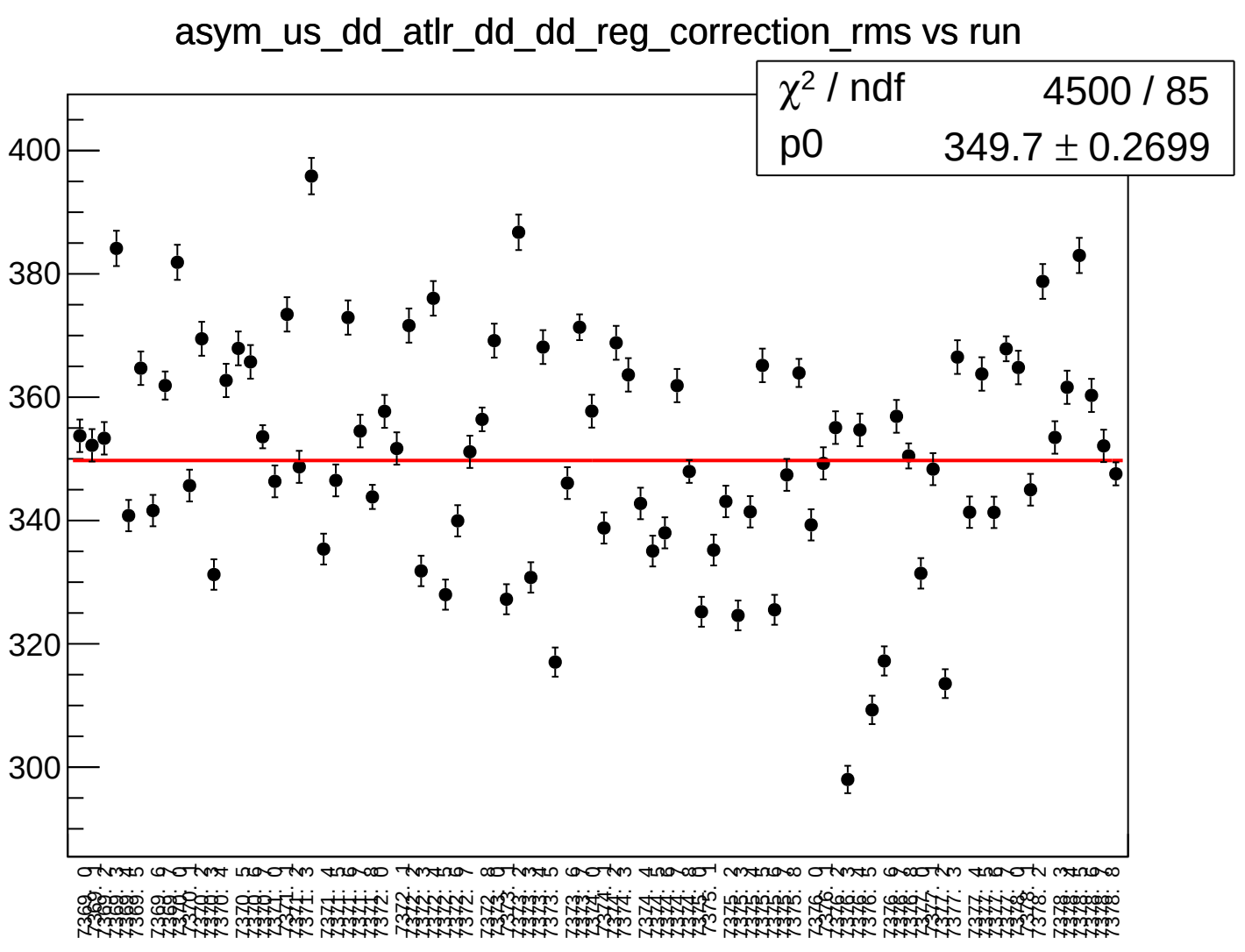

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 93.65 / 85
p0 248.7 ± 1152
pull
Entries 86
Mean 1.9
Std Dev 42.75

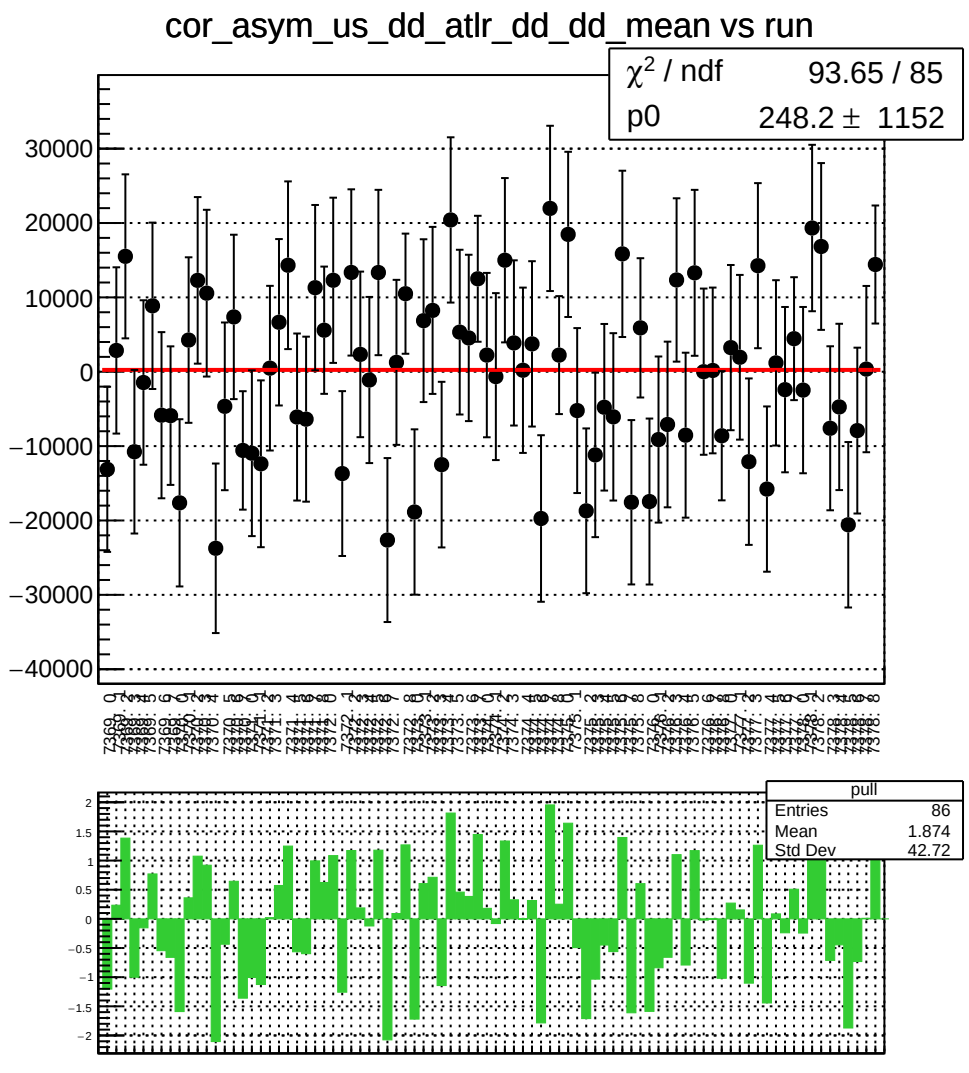

pull1D
Entries 86
Mean −0.01526
Std Dev 1.043

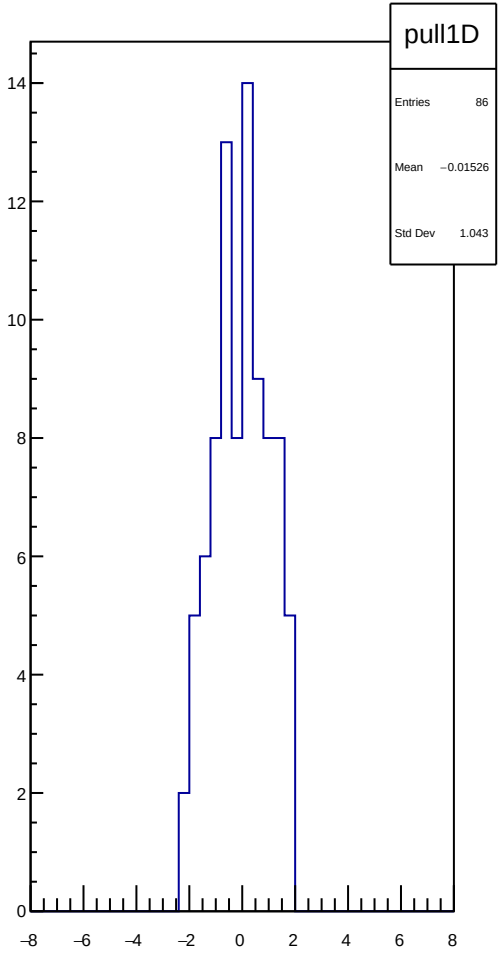

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 73.21 / 85
p0 1057 ± 0.8142
1090
1080
1070
1060
1050
1040
1030

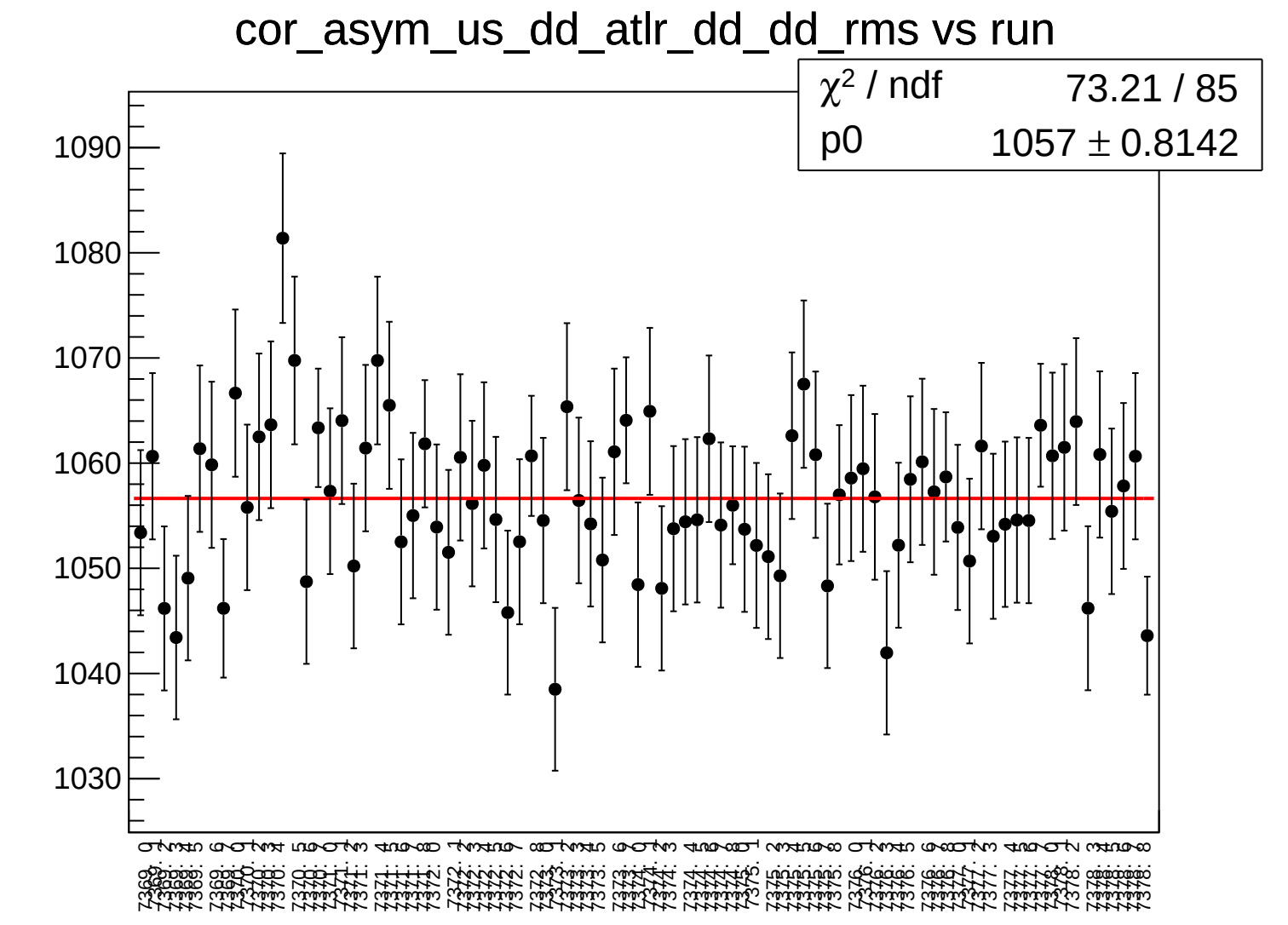

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 80.83 / 85
p0 83.7 ± 381.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 130.8
Std Dev 0
2
1
0
−1
−2

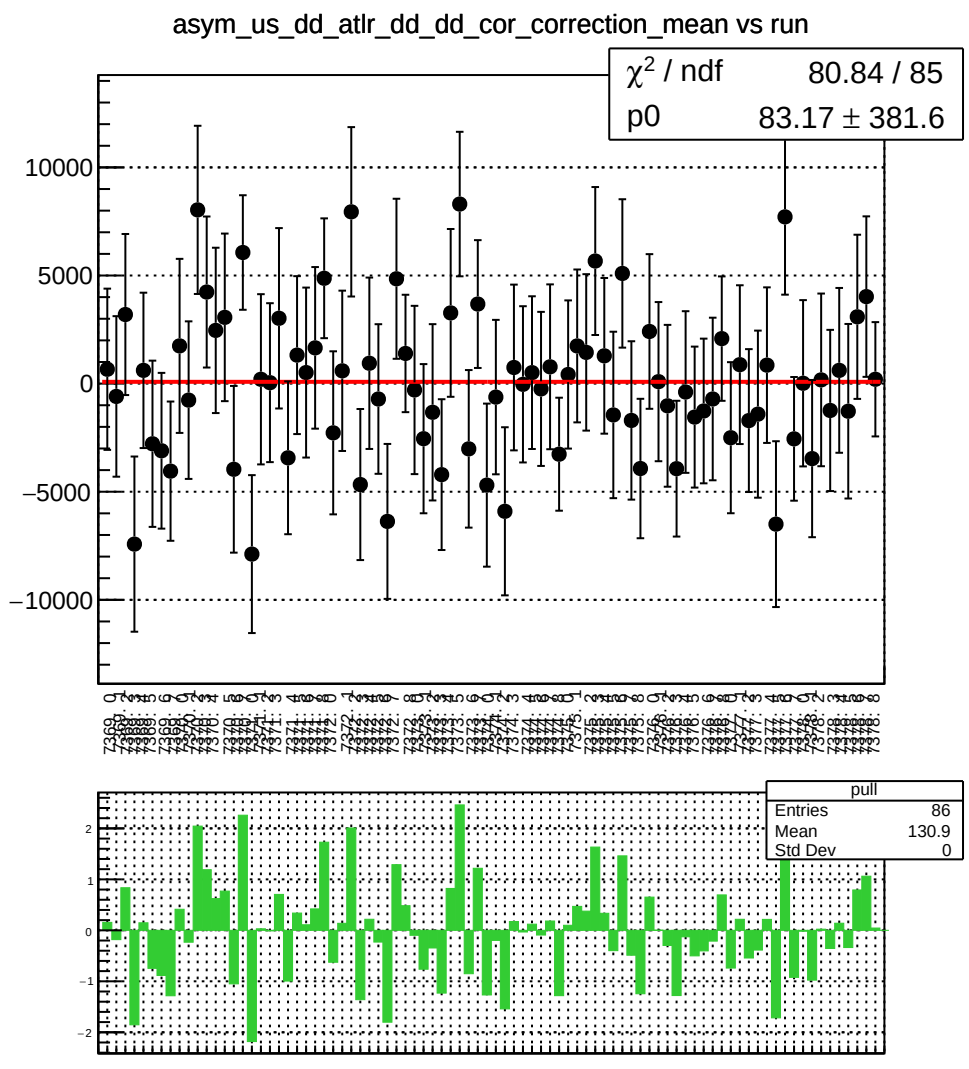

pull1D
Entries 86
Mean −0.01008
Std Dev 0.9694
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

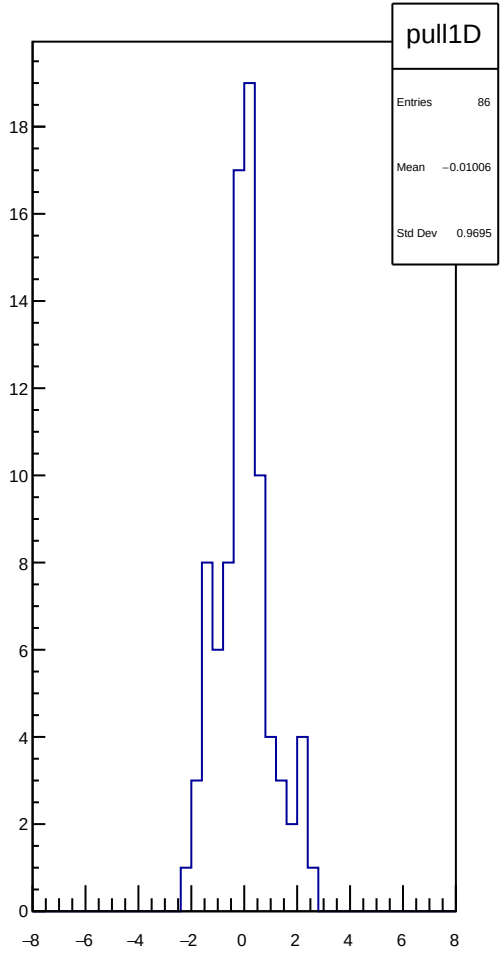

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 4500 / 85
p0 349.7 ± 0.2699
400
380
360
340
320
300

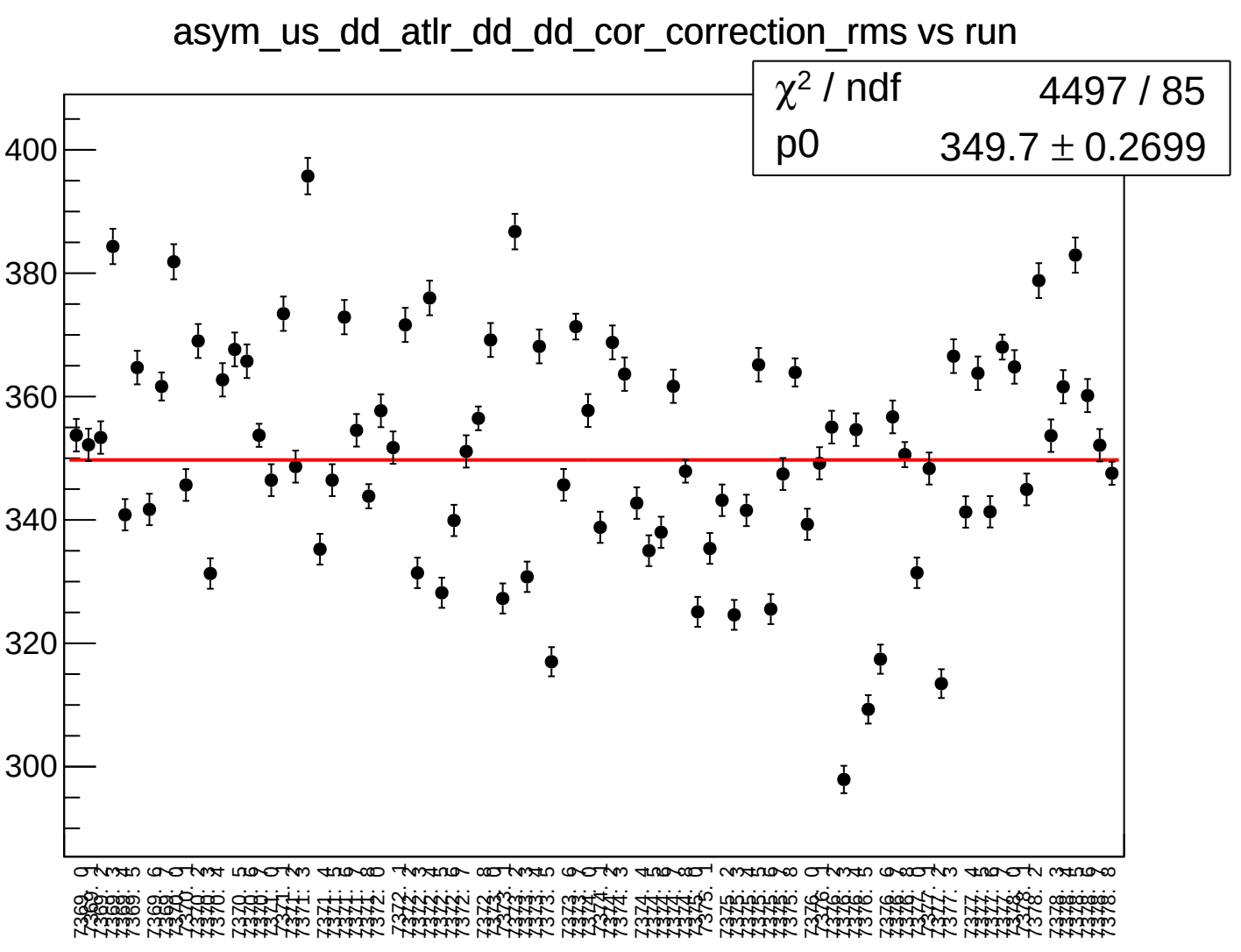

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 93.65 / 85
p0 248.2 ± 1152
pull
Entries 86
Mean 1.874
Std Dev 42.72

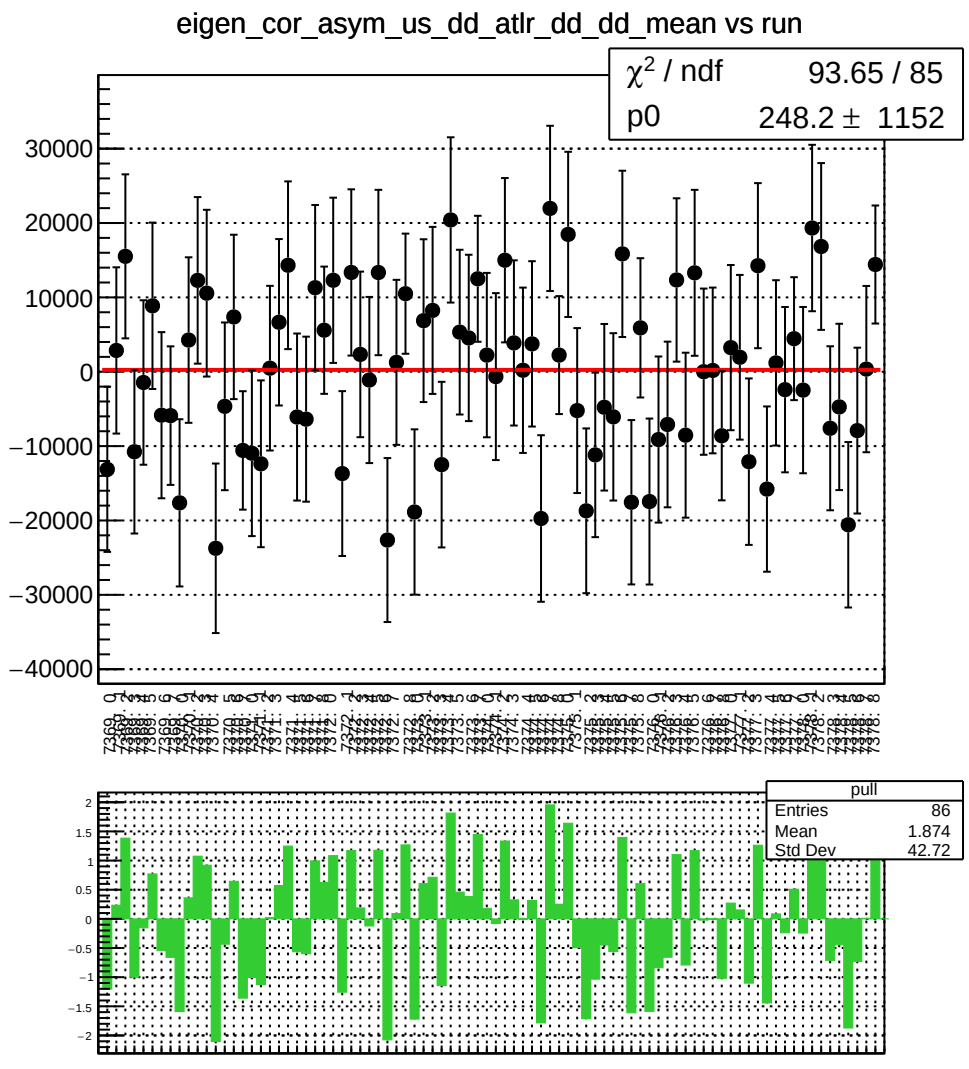

pull1D
Entries 86
Mean −0.01526
Std Dev 1.043

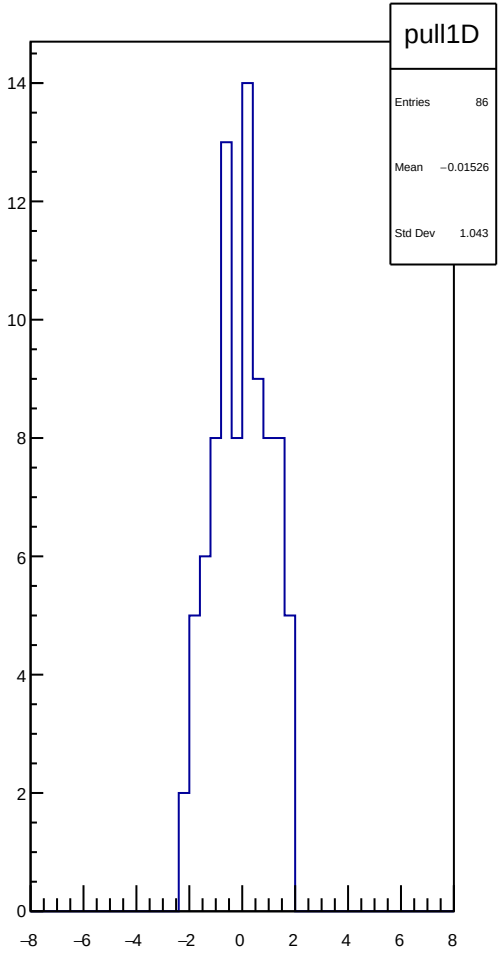

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 73.21 / 85
p0 1057 ± 0.8142
1090
1080
1070
1060
1050
1040
1030

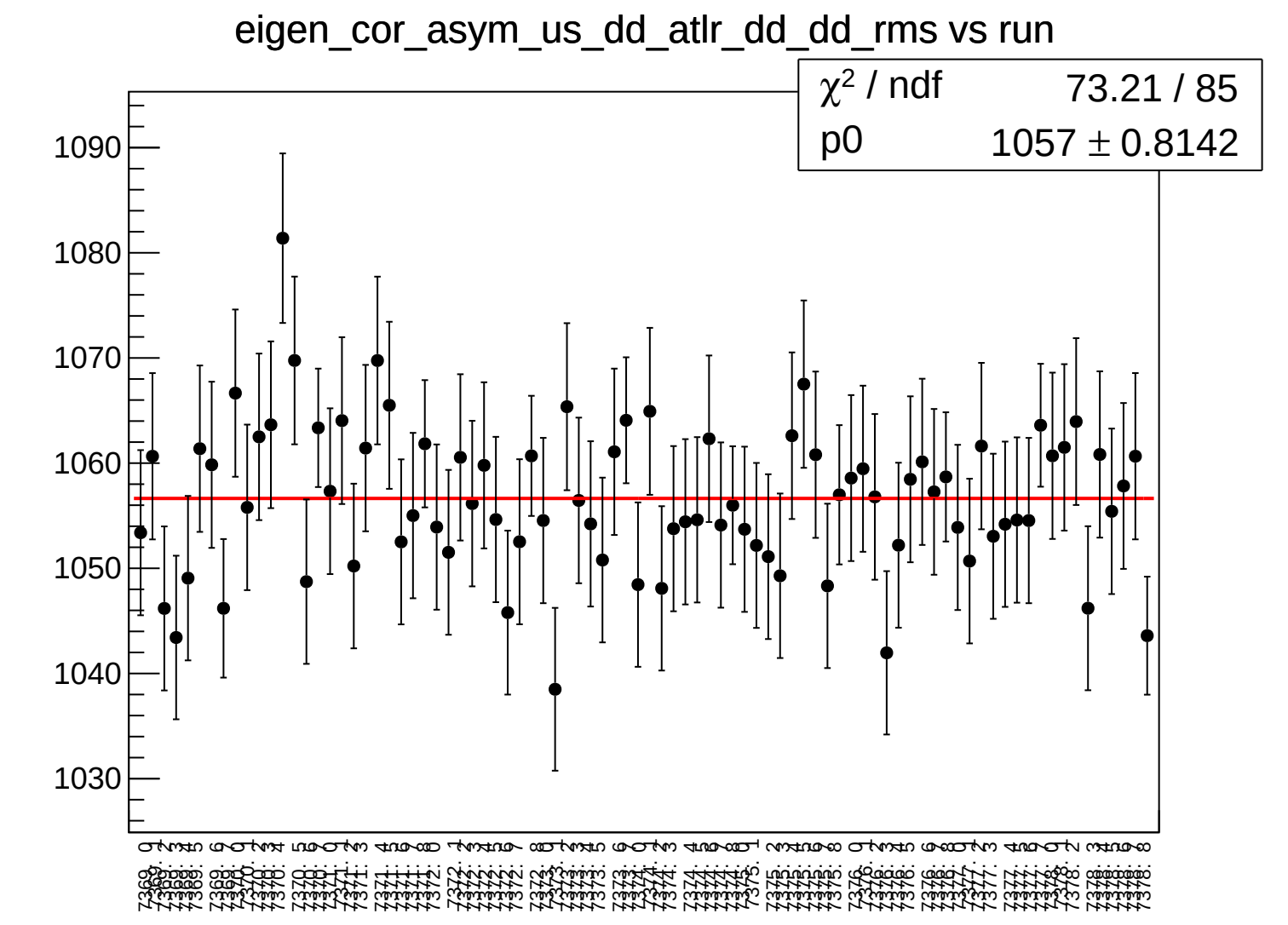

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 80.84 / 85
p0 83.17 ± 381.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 130.9
Std Dev 0
2
1
0
−1
−2

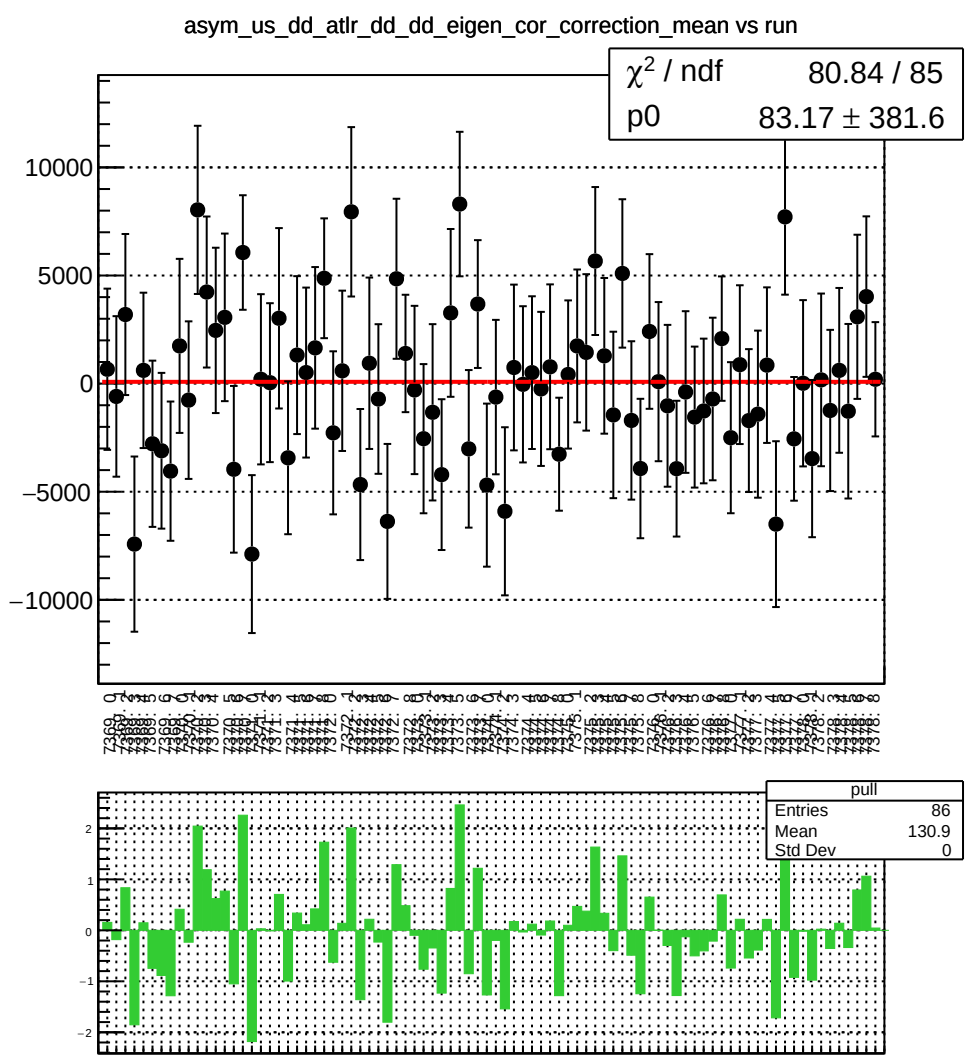

pull1D
Entries 86
Mean −0.01006
Std Dev 0.9695
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

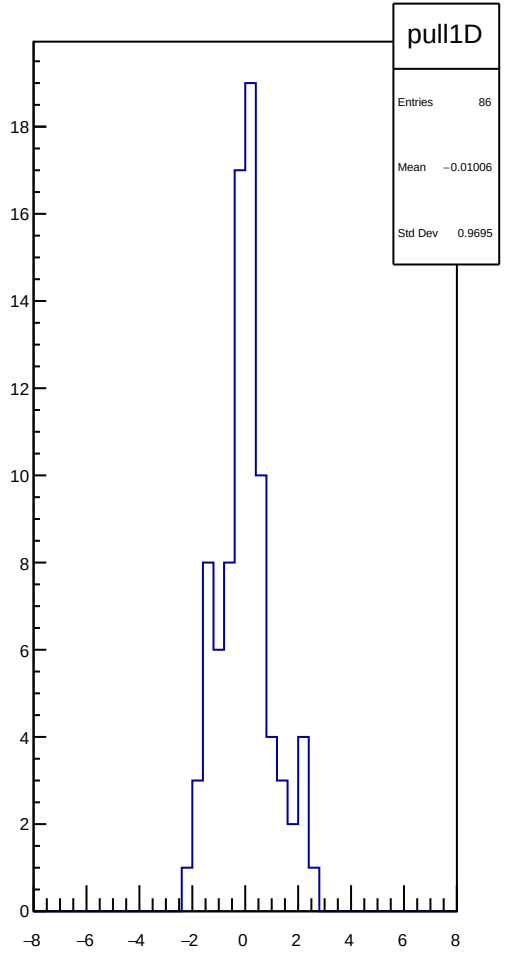

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 4497 / 85
p0 349.7 ± 0.2699
400
380
360
340
320
300

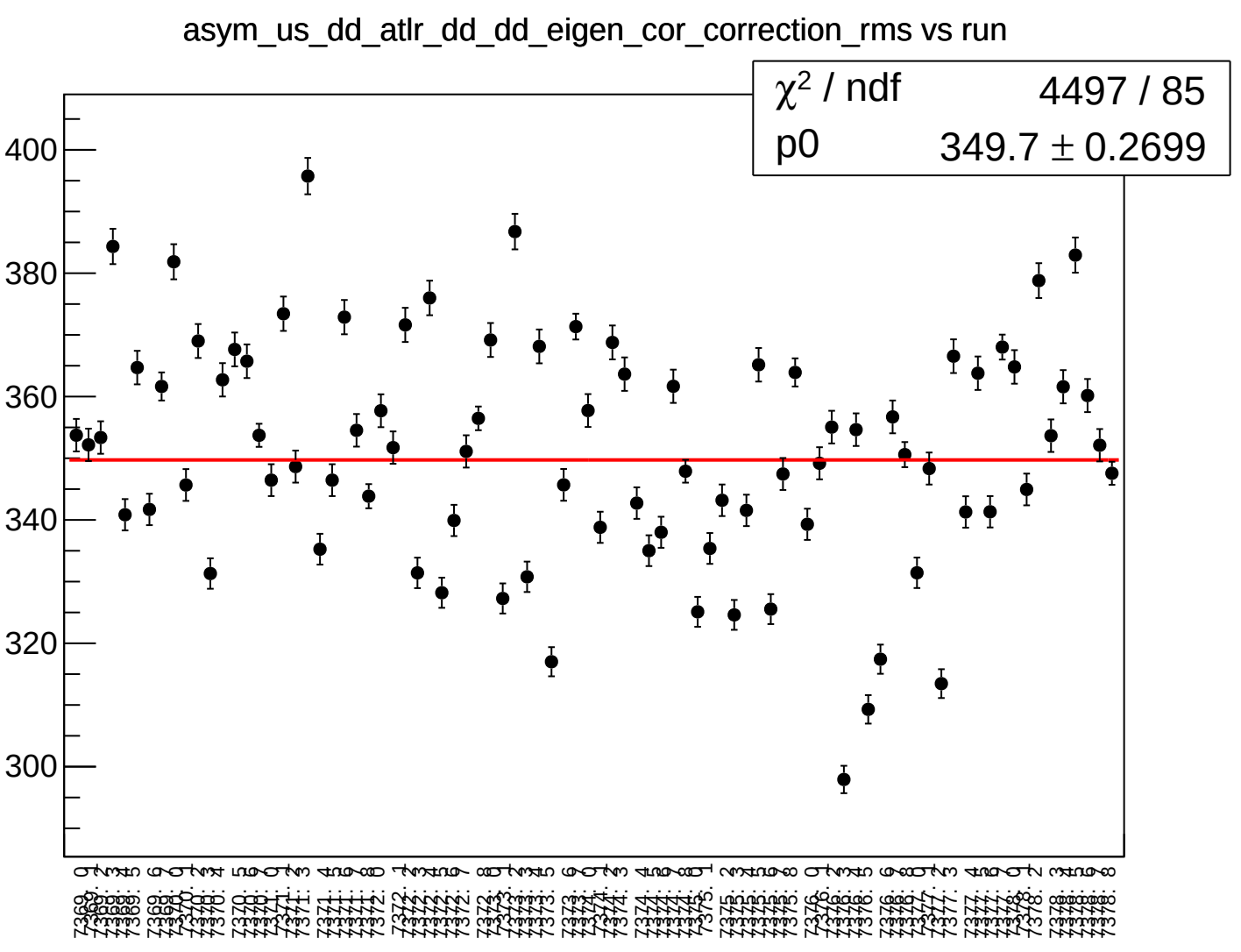

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 93.65 / 85
p0 248.2 ± 1152
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean 1.874
Std Dev 42.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

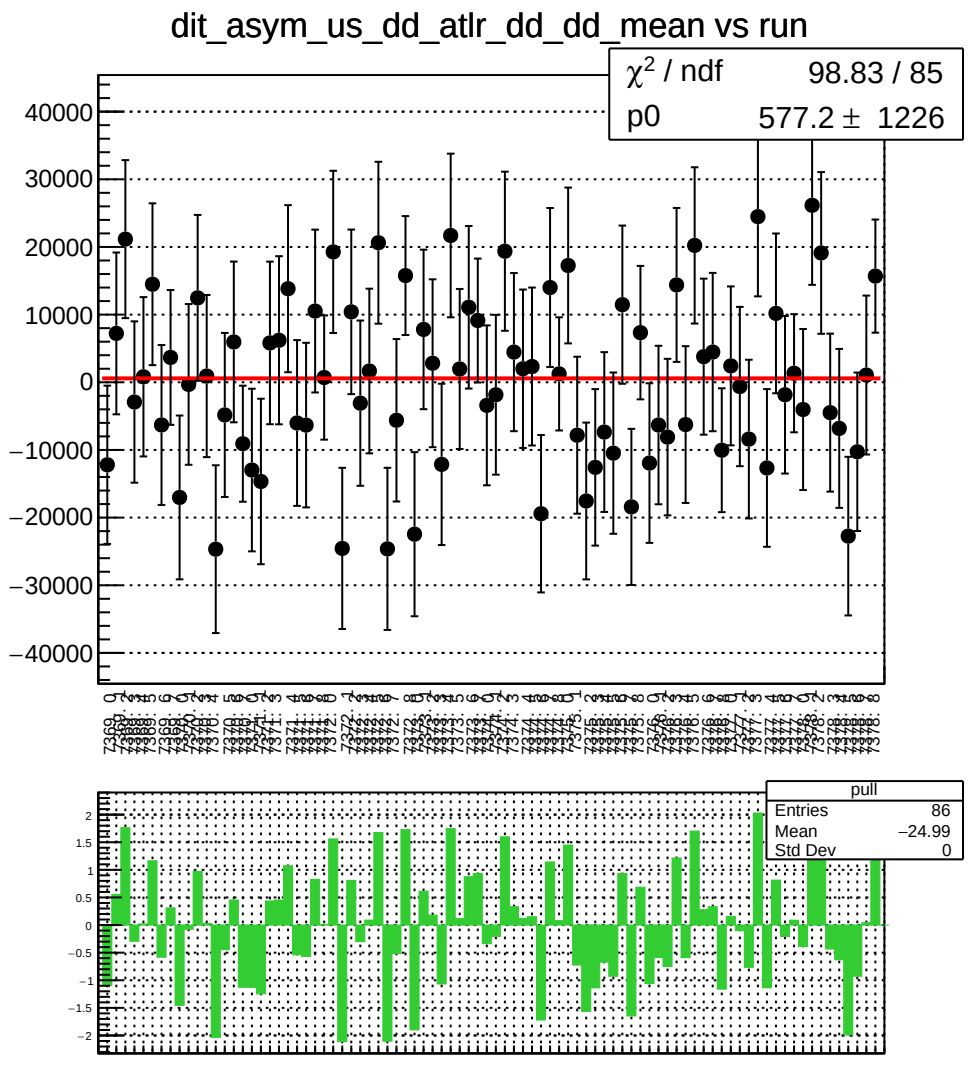

pull1D
Entries 86
Mean −0.01526
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

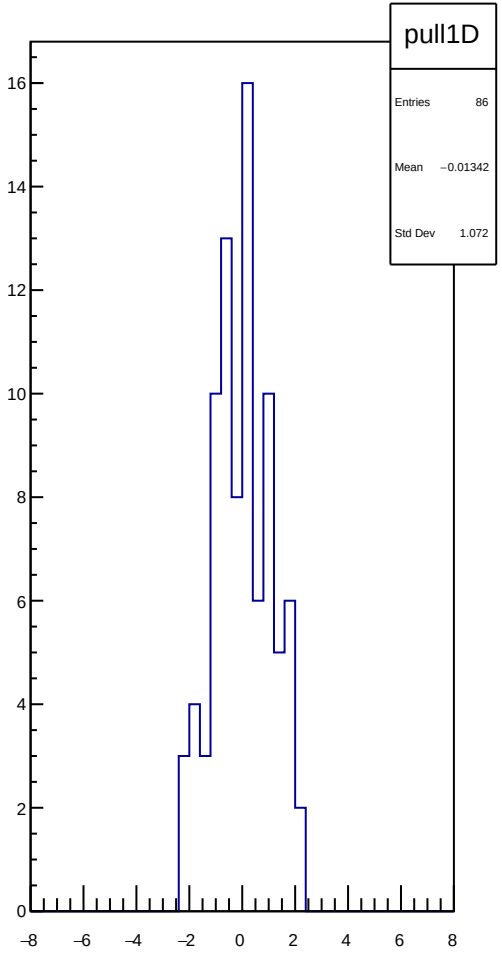

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 73.21 / 85
p0 1057 ± 0.8142
1090
1080
1070
1060
1050
1040
1030

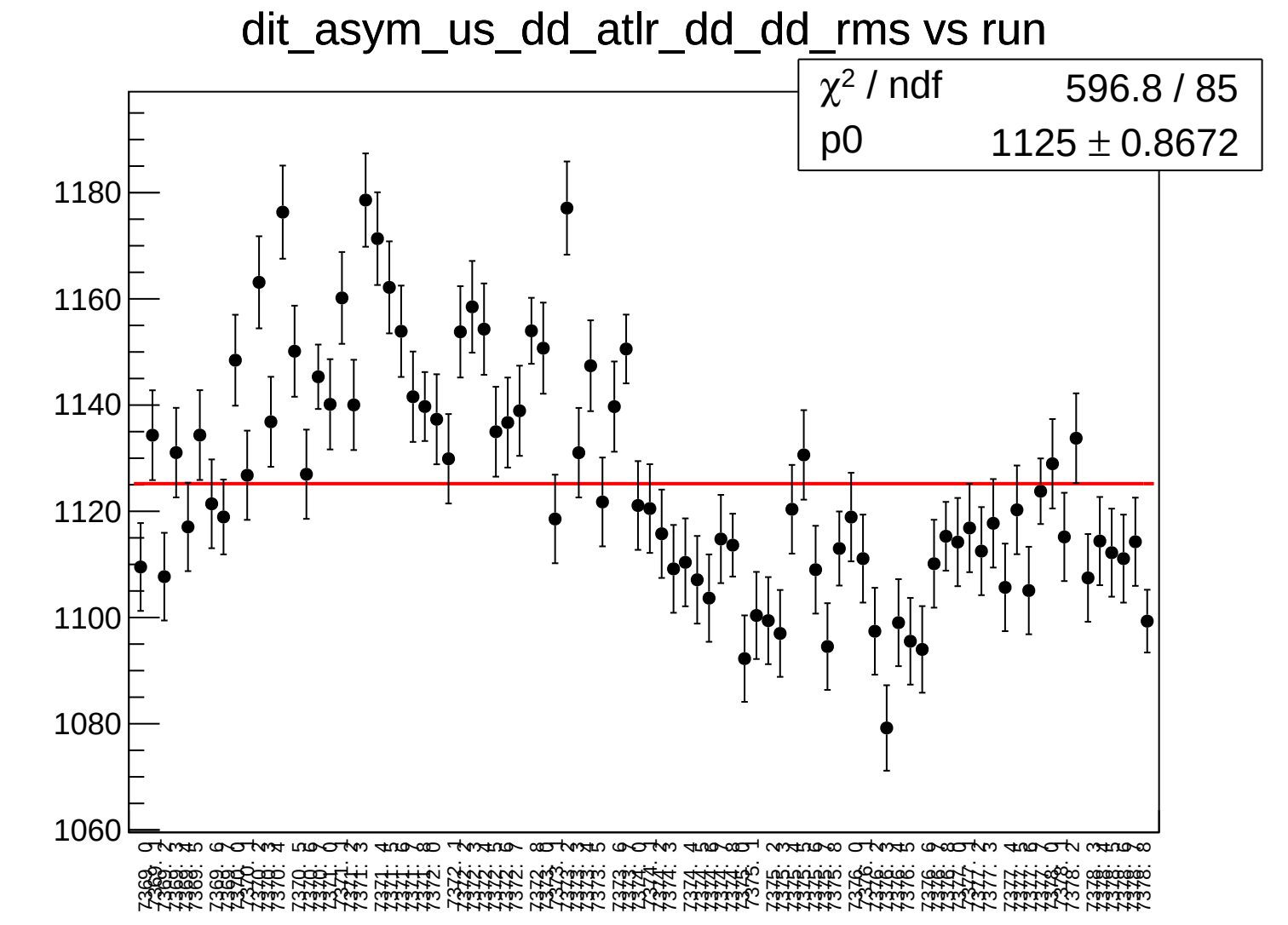

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.84 / 85
p0 83.17 ± 381.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 130.9
Std Dev 0
2
1
0
−1
−2

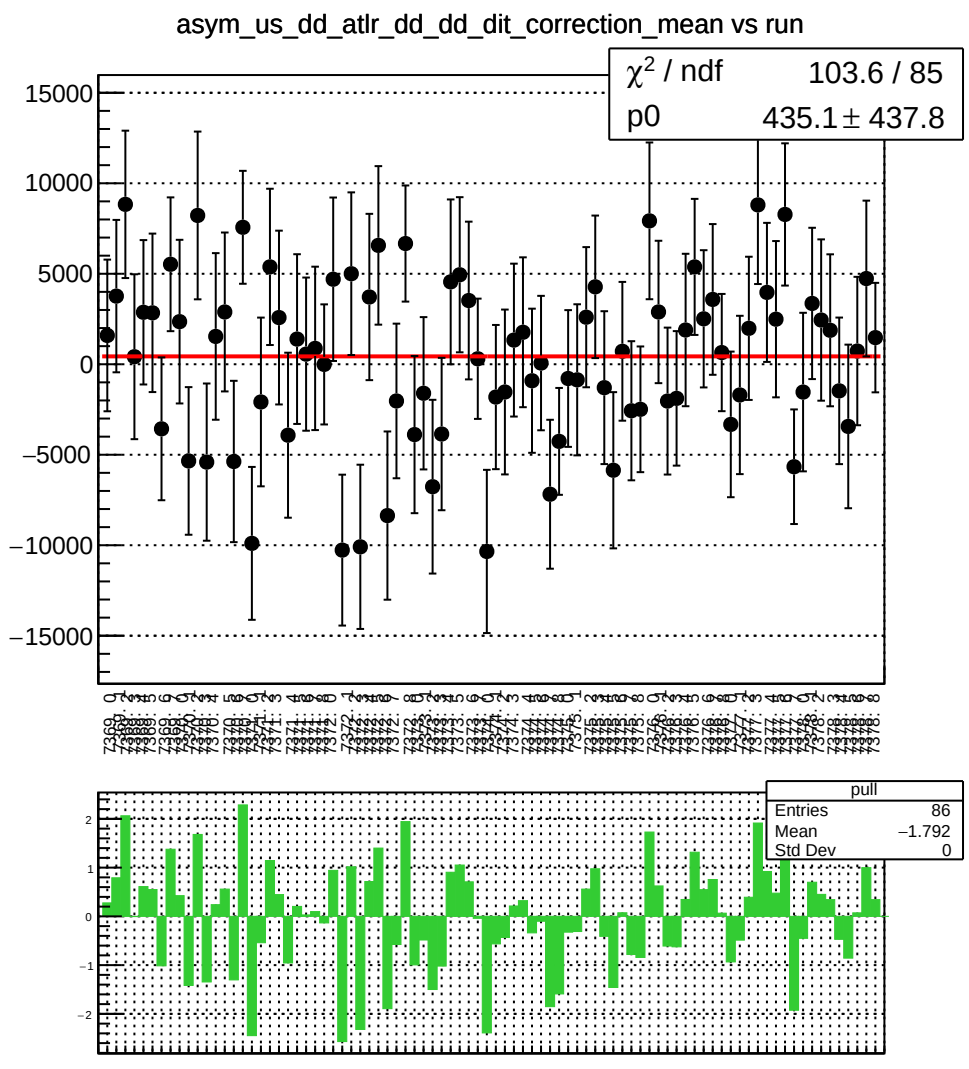

pull1D
Entries 86
Mean −0.01006
Std Dev 0.9695
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

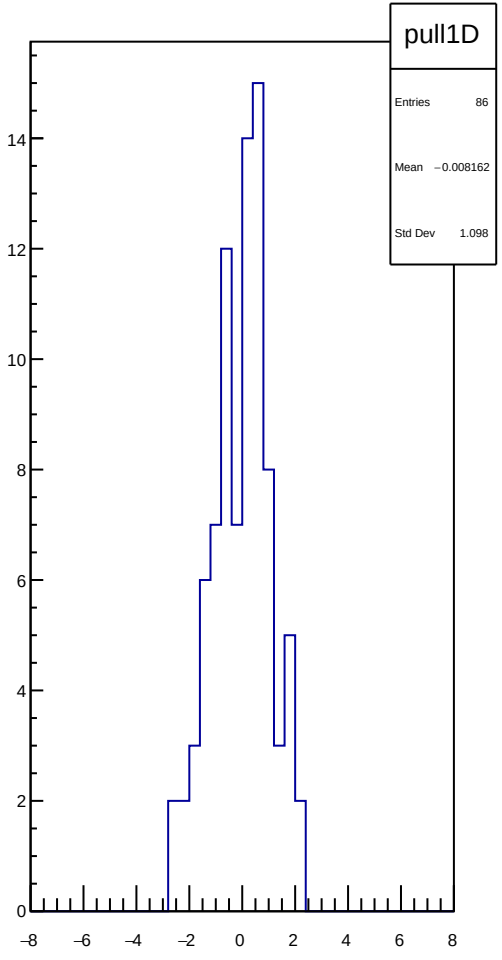

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4497 / 85
p0 349.7 ± 0.2699
400
380
360
340
320
300

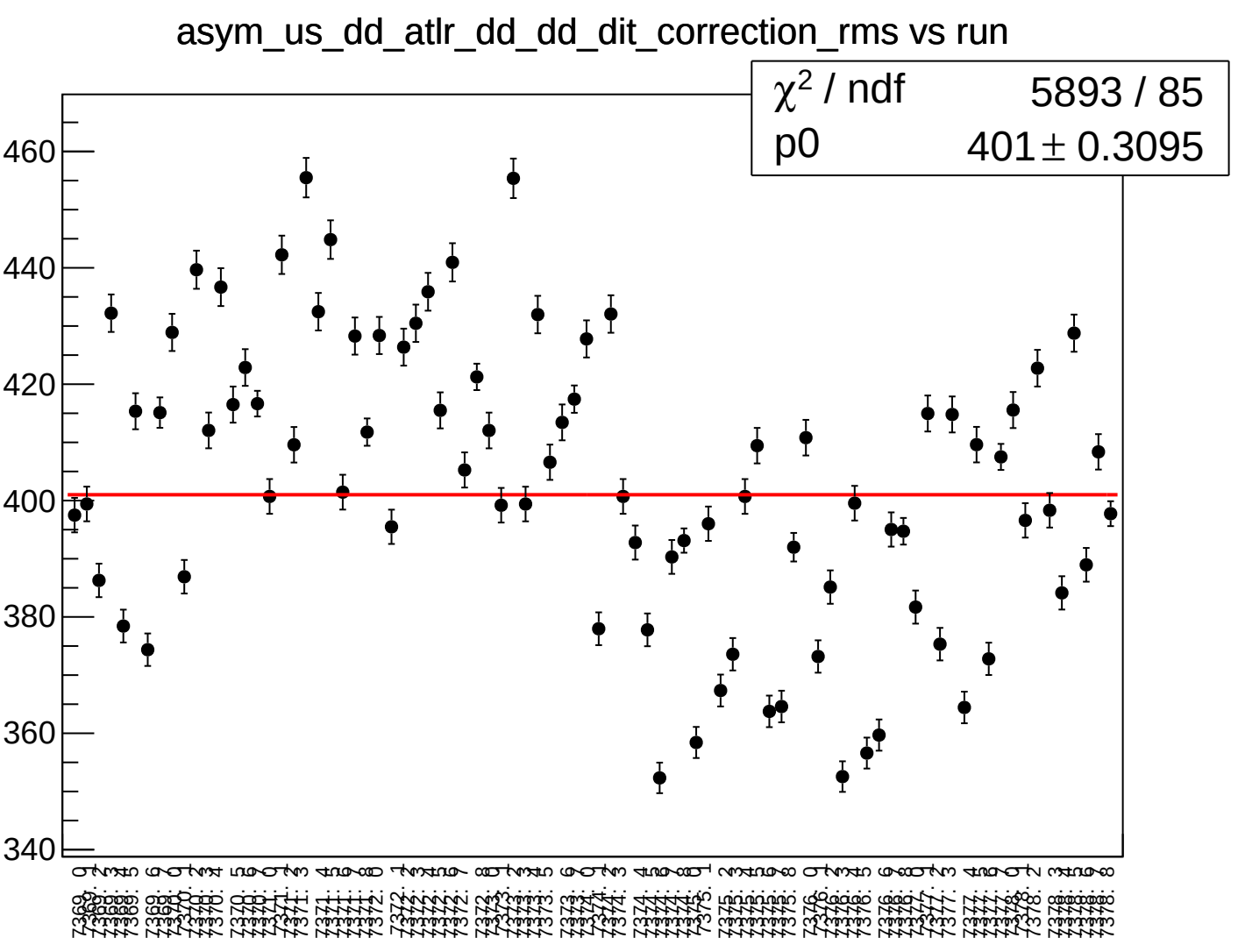

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ^2 / ndf 98.83 / 85
p0 577.2 ± 1226
pull
Entries 86
Mean −24.99
Std Dev 0

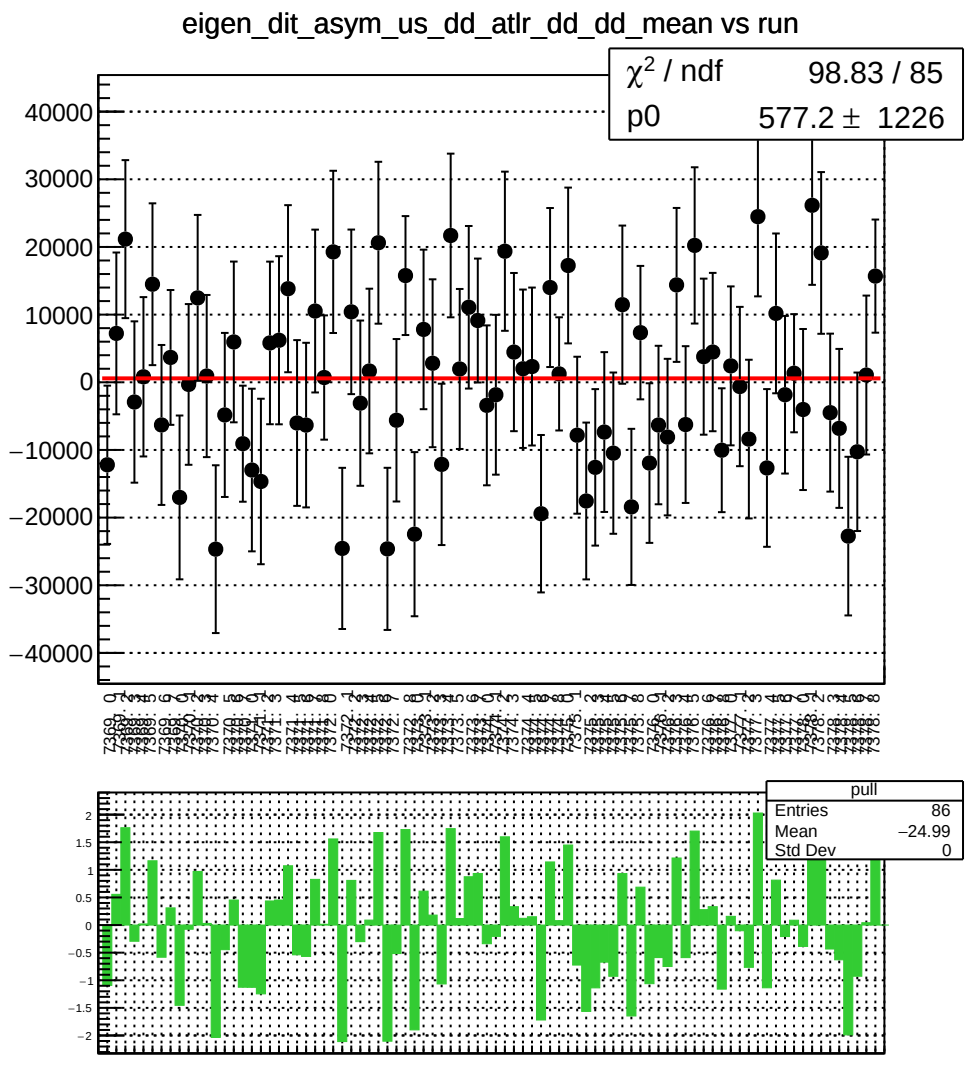

pull1D
Entries 86
Mean −0.01342
Std Dev 1.072

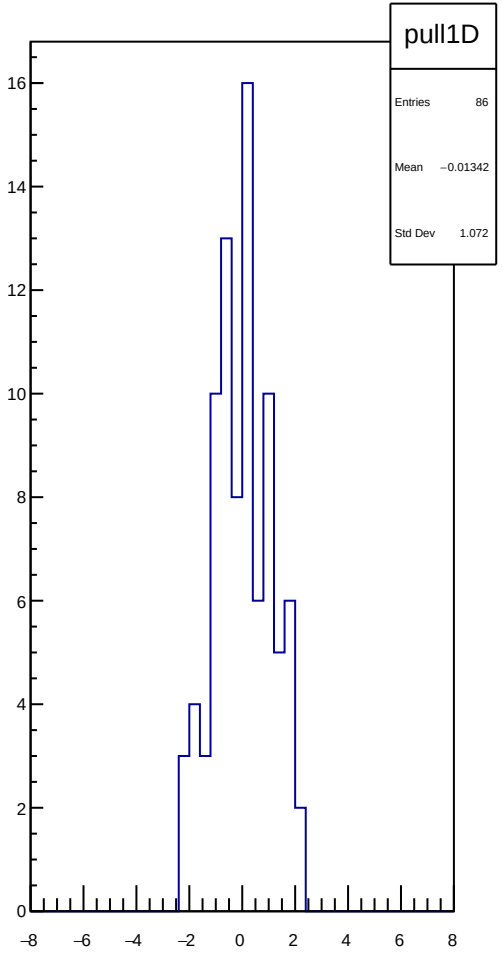

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 596.8 / 85
p0 1125 ± 0.8672
1180
1160
1140
1120
1100
1080
1060

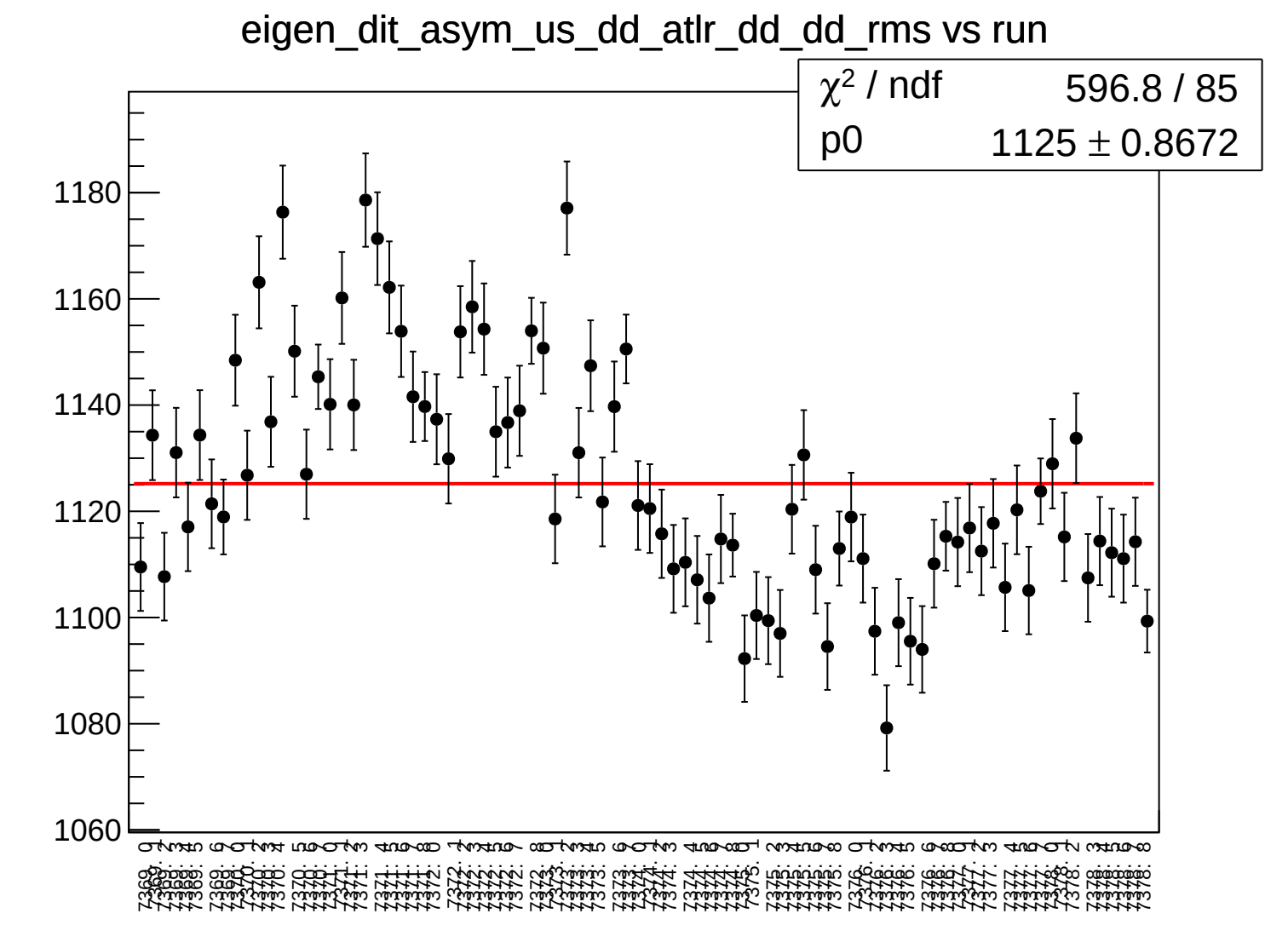

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 103.6 / 85
p0 435.1 ± 437.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −1.792
Std Dev 0
2
1
0
−1
−2

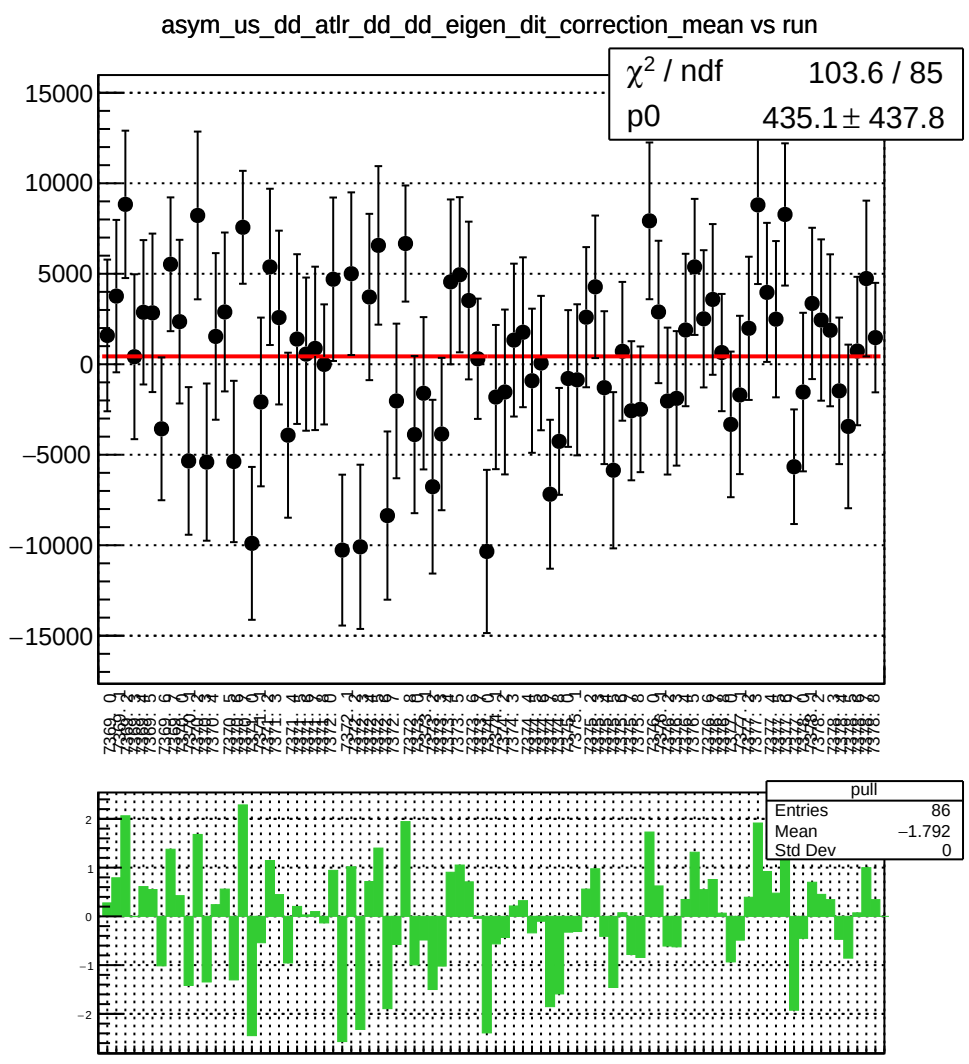

pull1D
Entries 86
Mean −0.008162
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

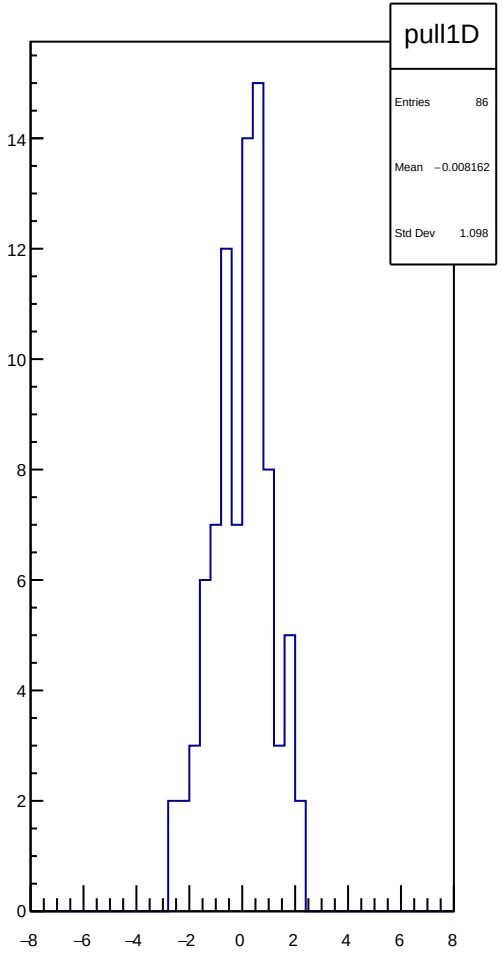

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 5893 / 85
p0 401 ± 0.3095
460
440
420
400
380
360
340

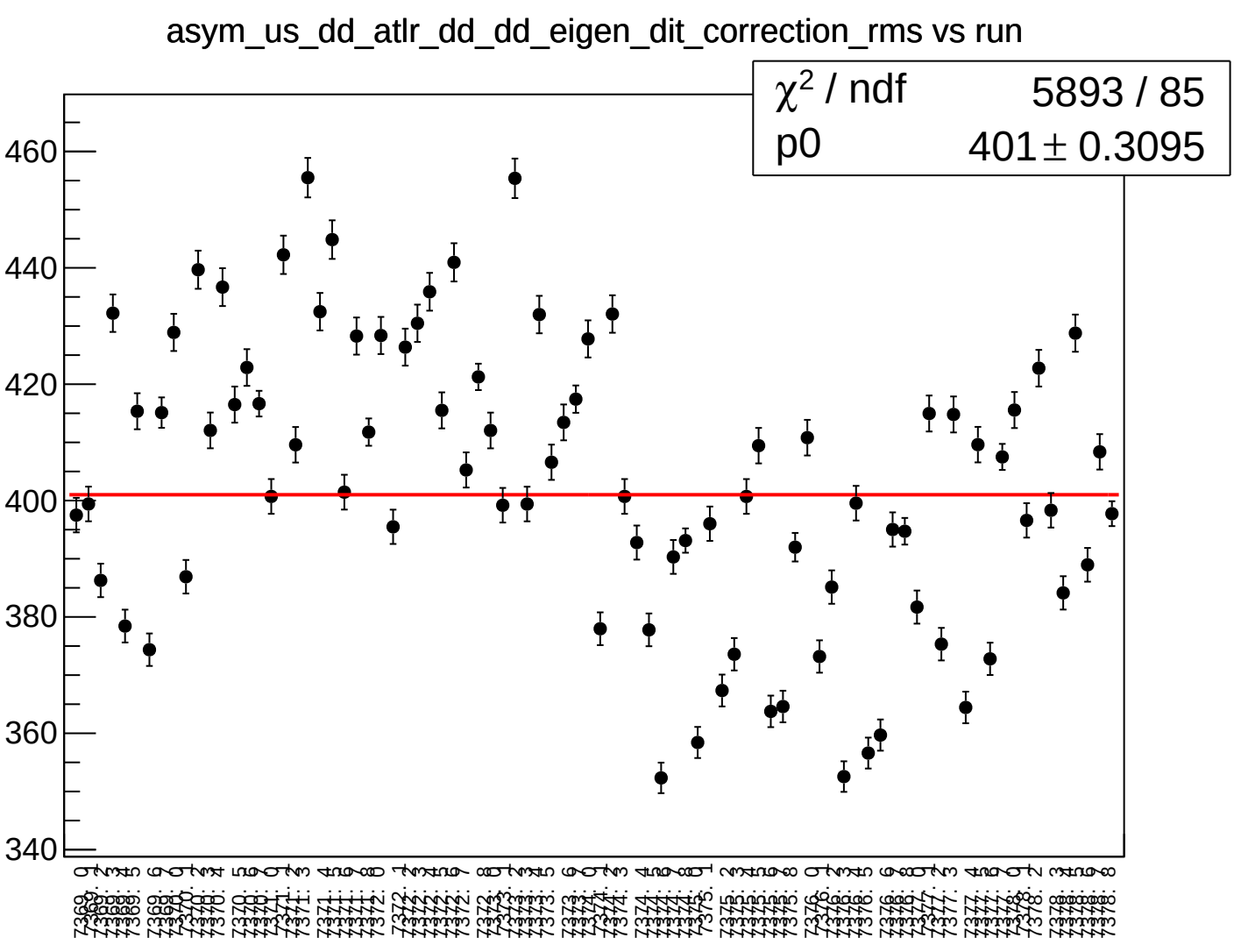

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ^2 / ndf 98.83 / 85
p0 577.2 ± 1226
pull
Entries 86
Mean −24.99
Std Dev 0

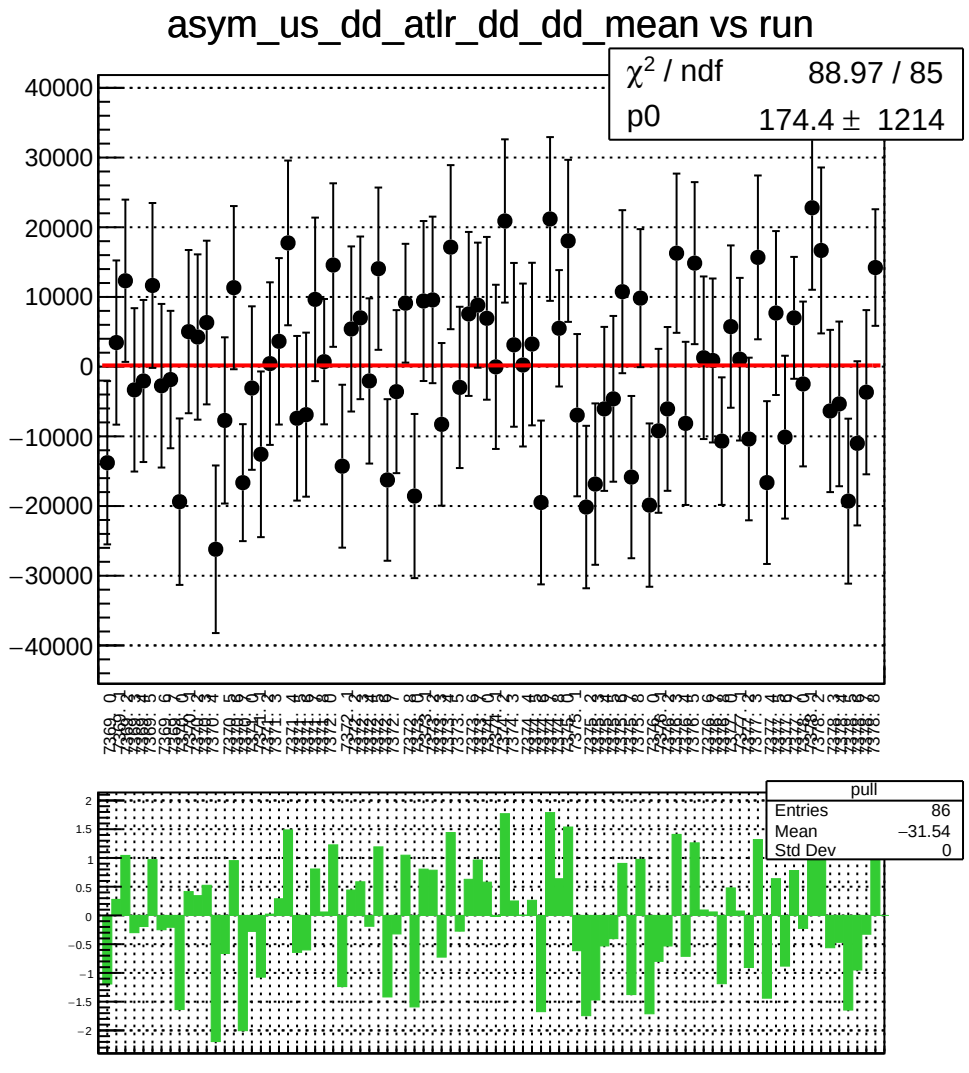

pull1D
Entries 86
Mean −0.01342
Std Dev 1.072

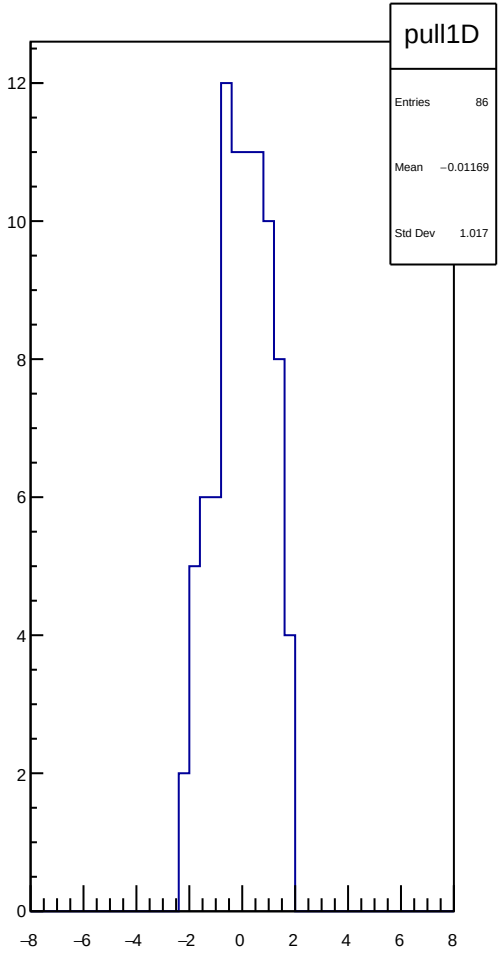

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 596.8 / 85
p0 1125 ± 0.8672
1180
1160
1140
1120
1100
1080
1060

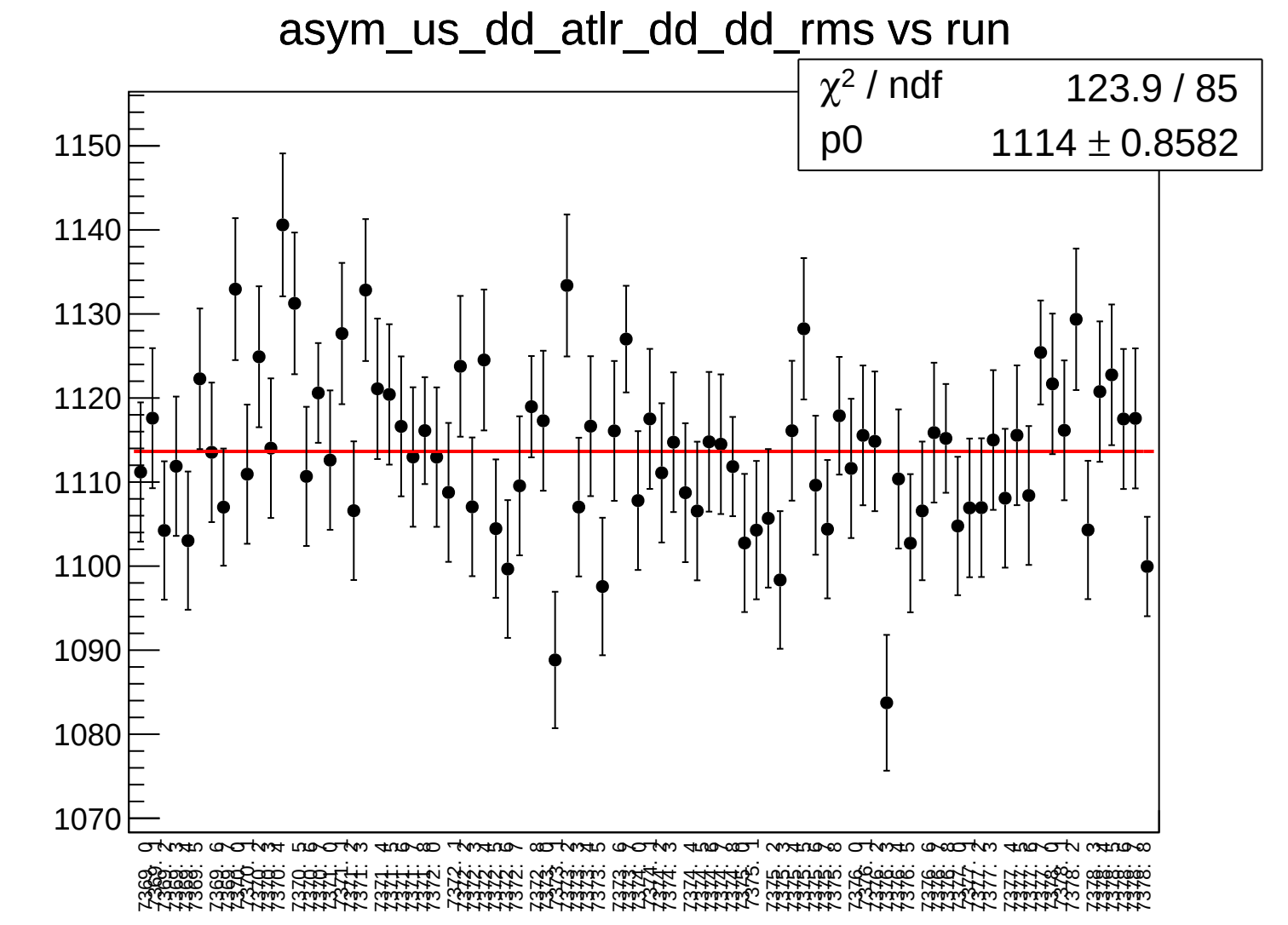

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.6 / 85
p0 435.1 ± 437.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −1.792
Std Dev 0
2
1
0
−1
−2

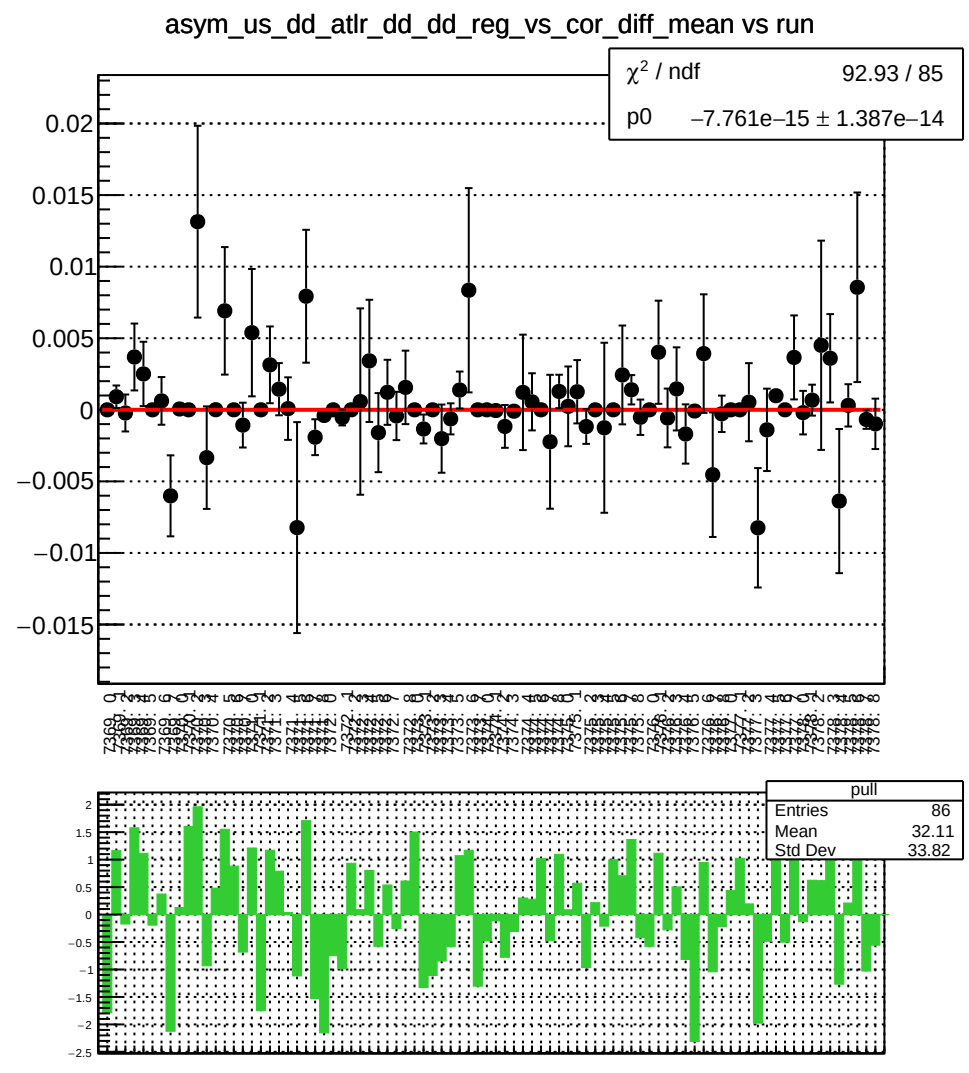

pull1D
Entries 86
Mean −0.008162
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

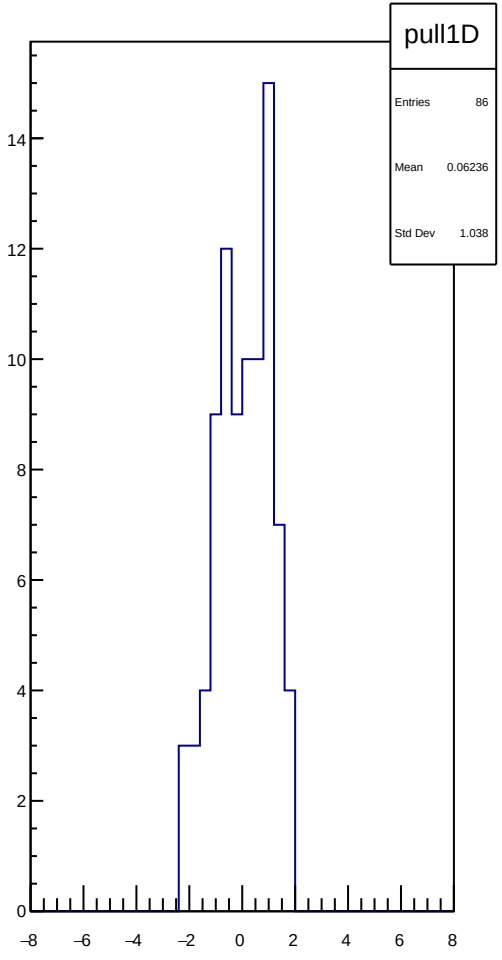

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5893 / 85
p0 401 ± 0.3095
460
440
420
400
380
360
340

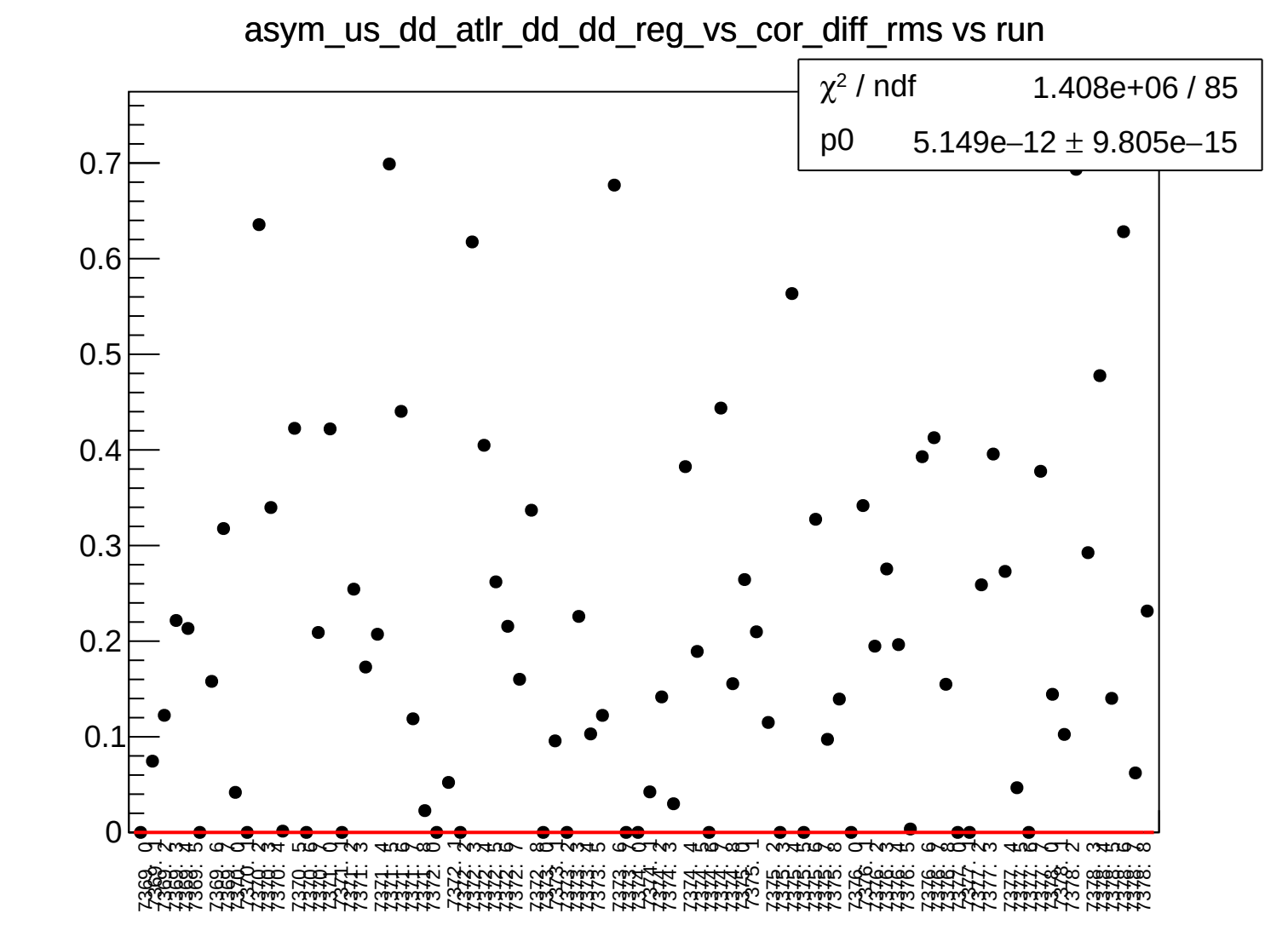

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 88.97 / 85
p0 174.4 ± 1214
pull
Entries 86
Mean −31.54
Std Dev 0

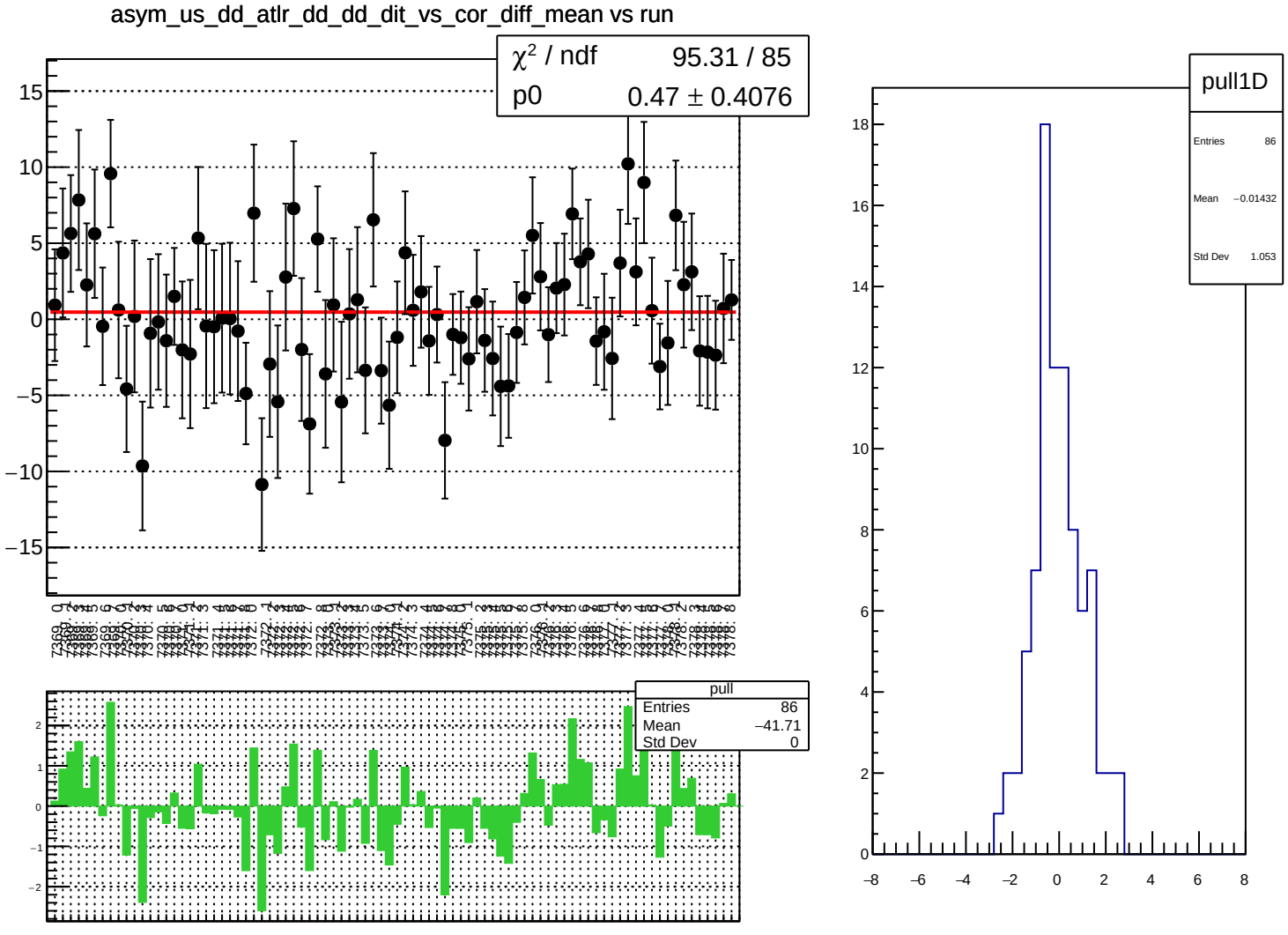

pull1D
Entries 86
Mean −0.01169
Std Dev 1.017

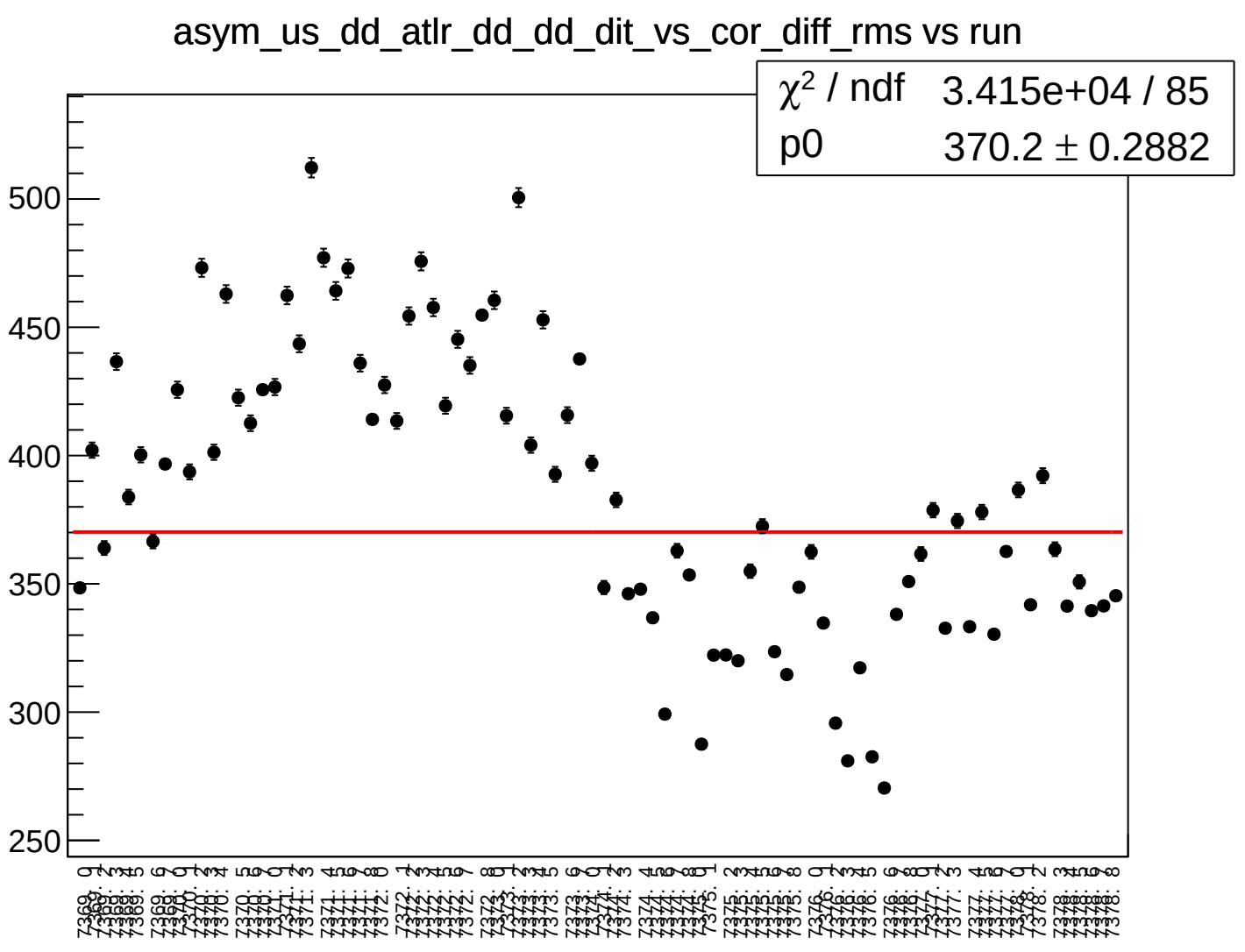

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 123.9 / 85
p0 1114 ± 0.8582
1150
1140
1130
1120
1110
1100
1090
1080
1070

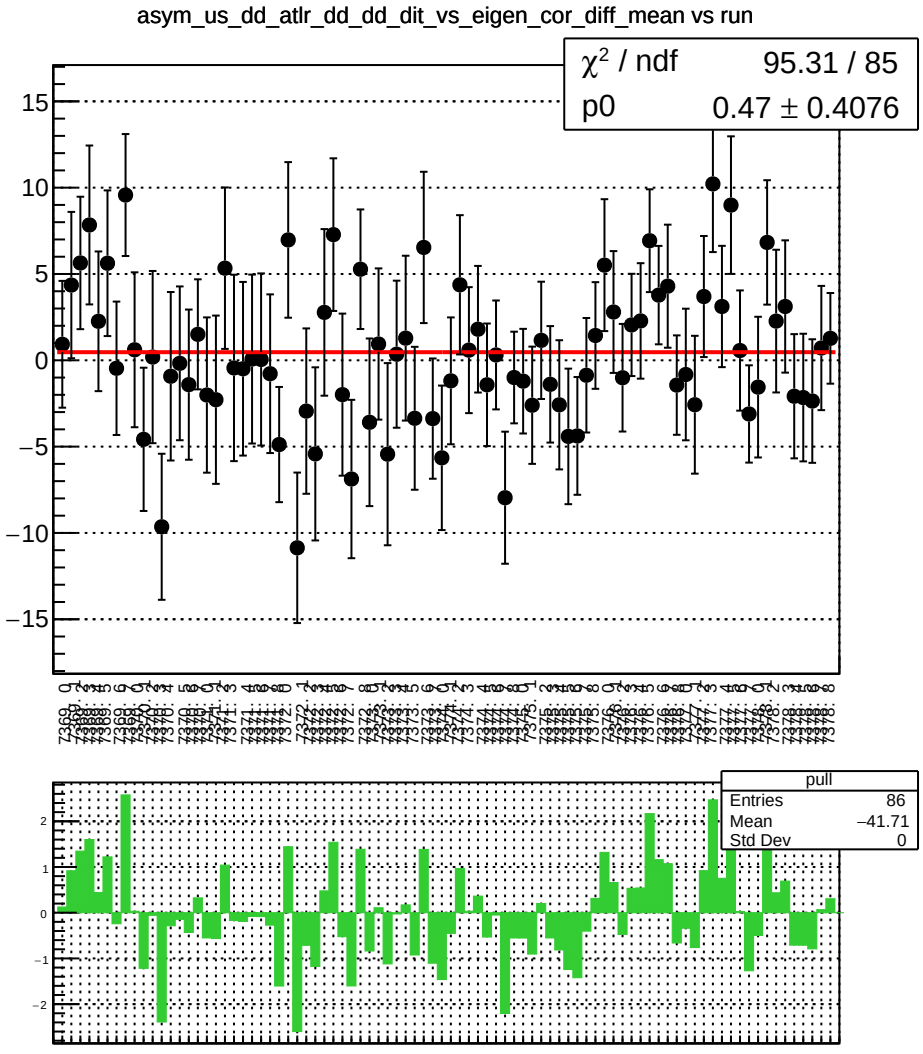

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.93 / 85
p0 −7.761e−15 ± 1.387e−14
pull
Entries 86
Mean 32.11
Std Dev 33.82

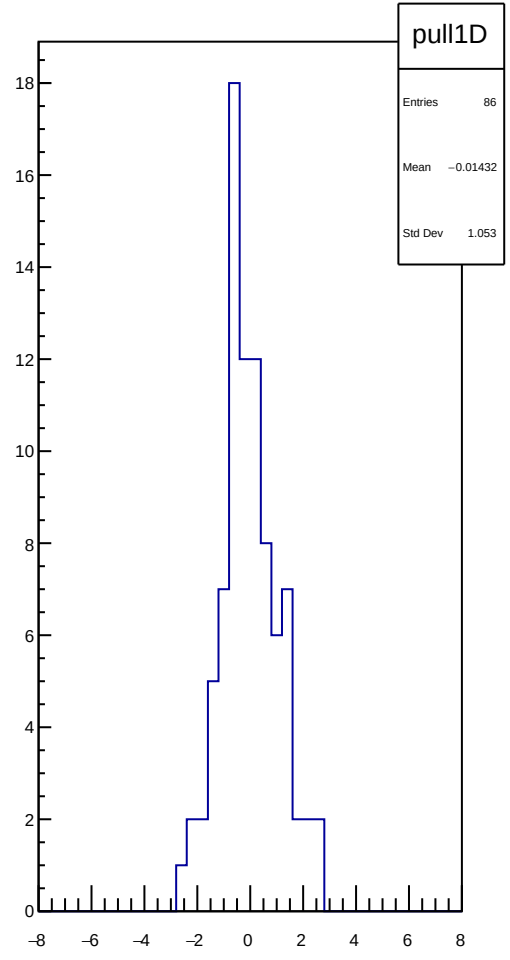

pull1D
Entries 86
Mean 0.06236
Std Dev 1.038

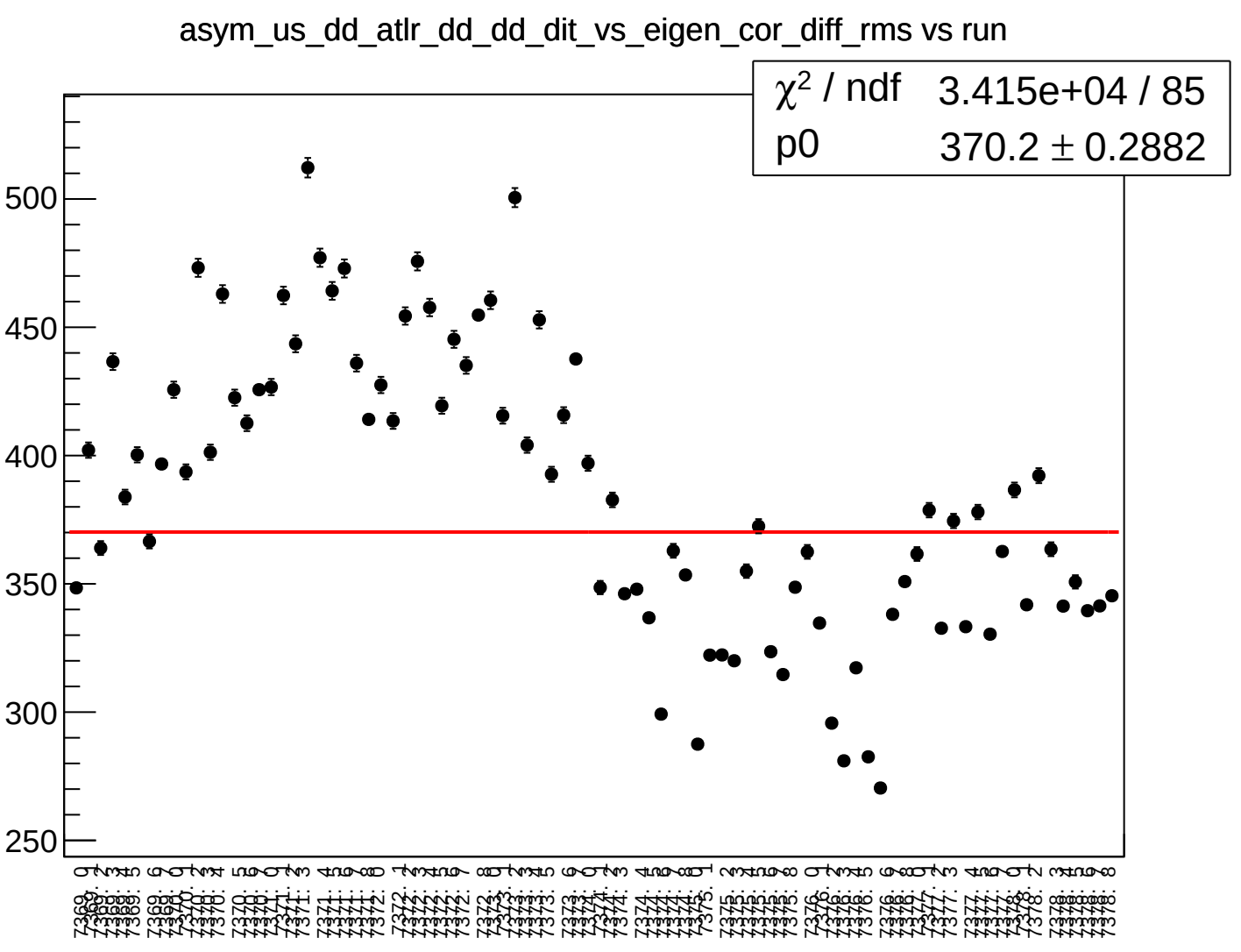

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.408e+06 / 85
p0 5.149e−12 ± 9.805e−15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

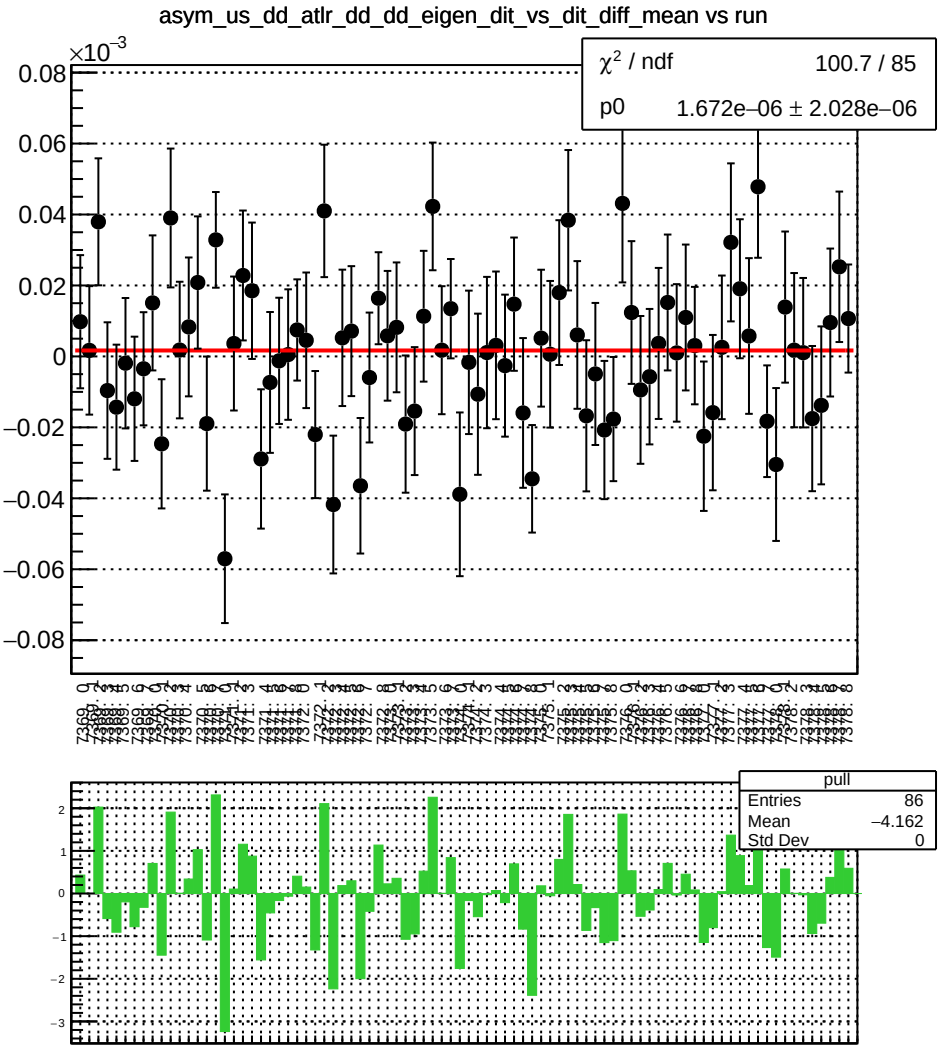

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.31 / 85
p0 0.47 ± 0.4076
pull
Entries 86
Mean −41.71
Std Dev 0
pull1D
Entries 86
Mean −0.01432
Std Dev 1.053

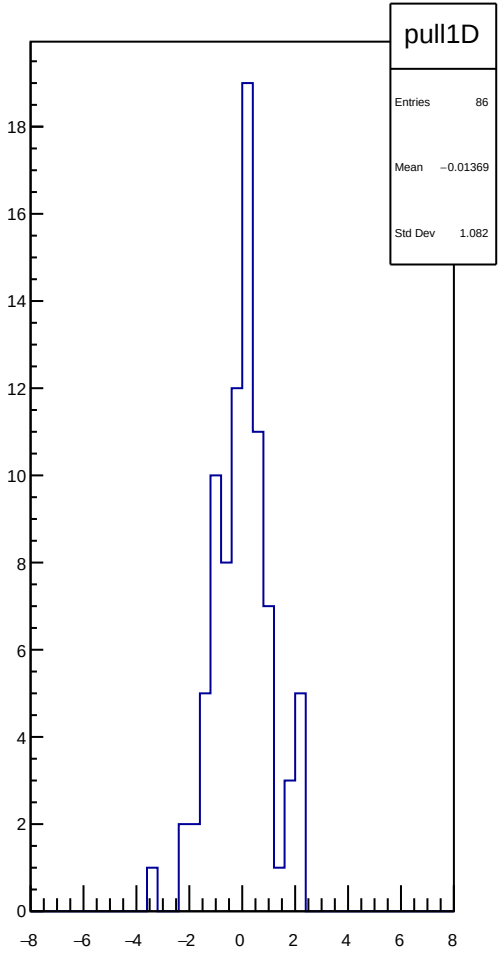

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.415e+04 / 85
p0 370.2 ± 0.2882
500
450
400
350
300
250

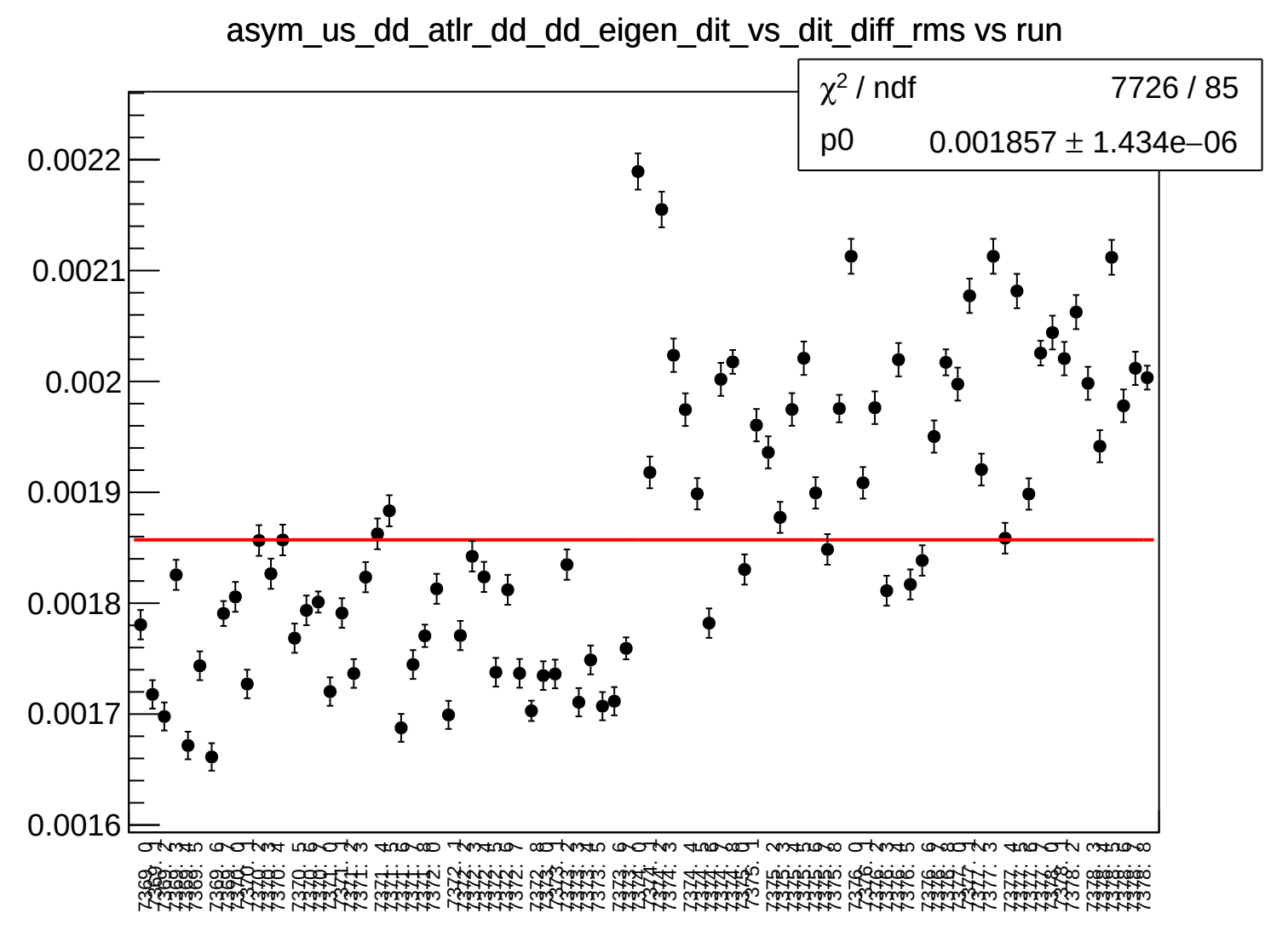

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.31 / 85
p0 0.47 ± 0.4076
pull
Entries 86
Mean −41.71
Std Dev 0

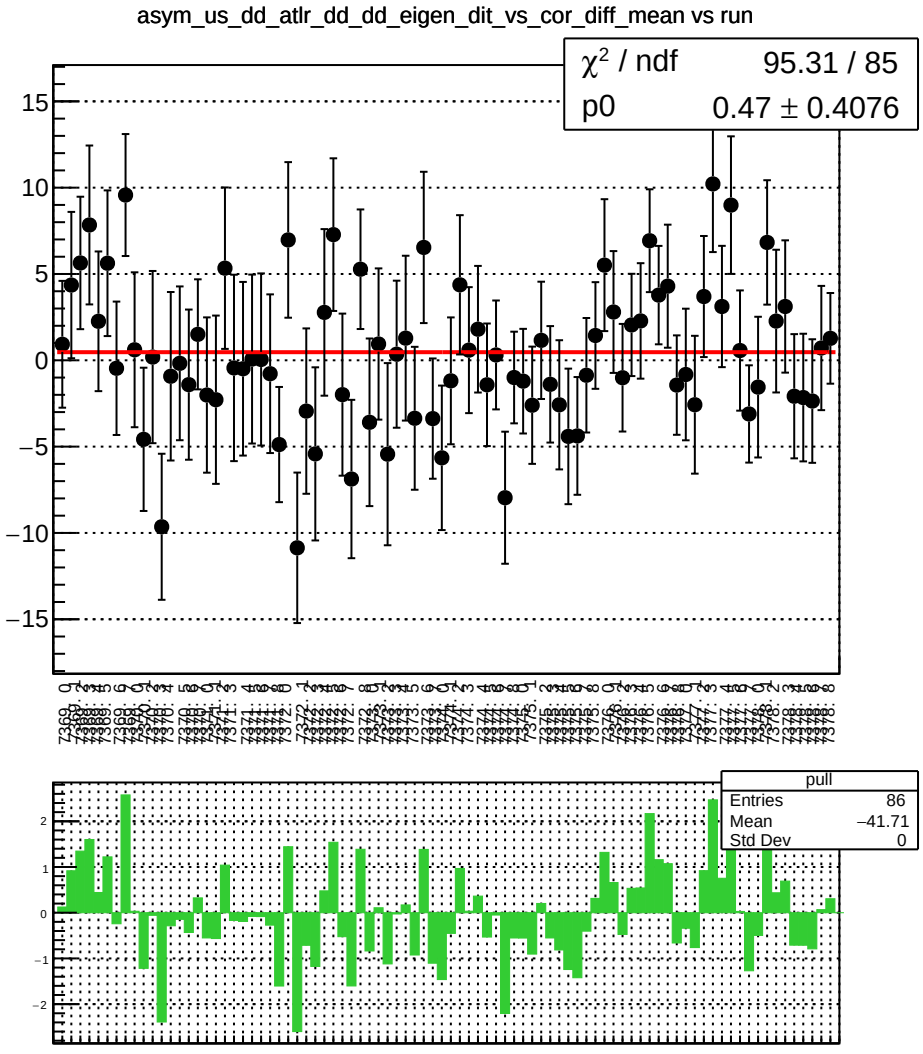

pull1D
Entries 86
Mean −0.01432
Std Dev 1.053

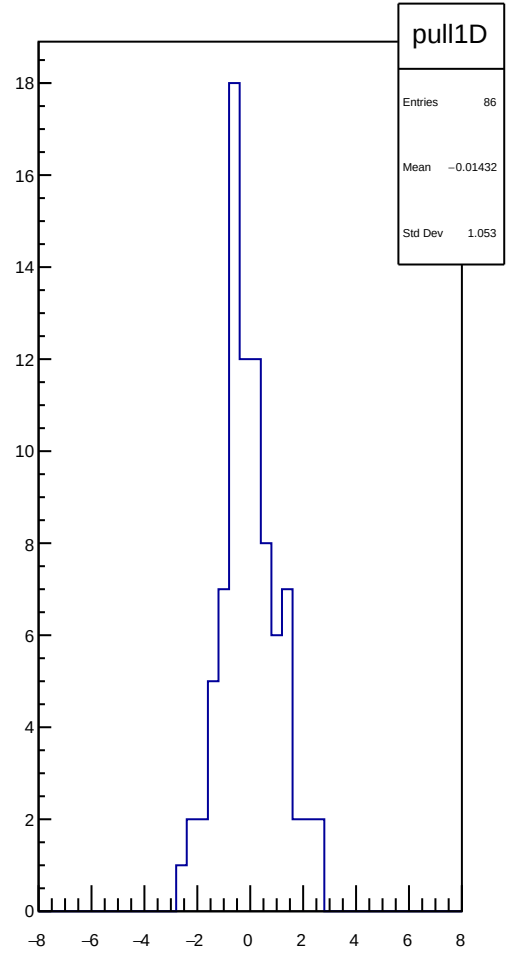

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.415e+04 / 85
p0 370.2 ± 0.2882
500
450
400
350
300
250

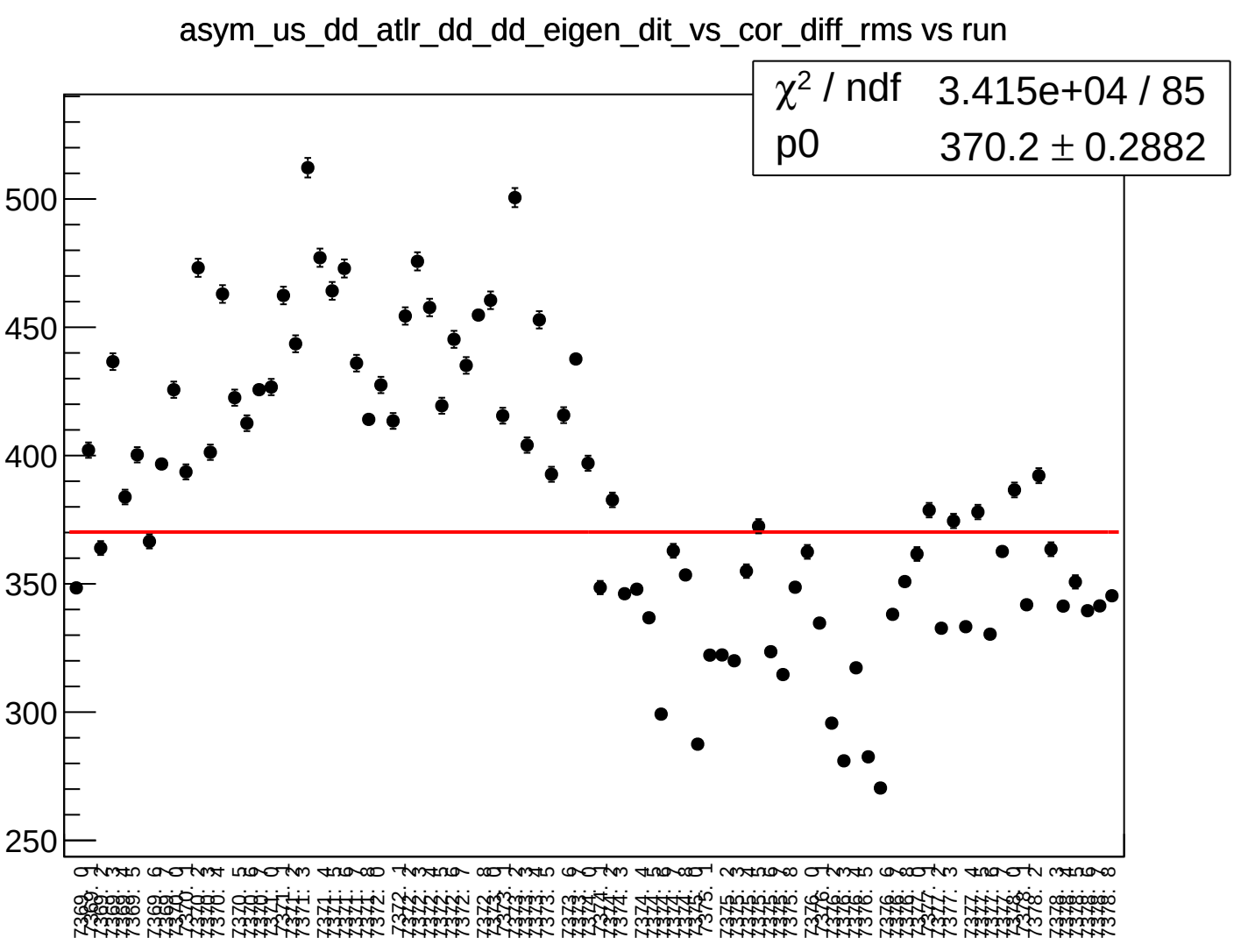

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 85
p0 1.672e−06 ± 2.028e−06
pull
Entries 86
Mean −4.162
Std Dev 0

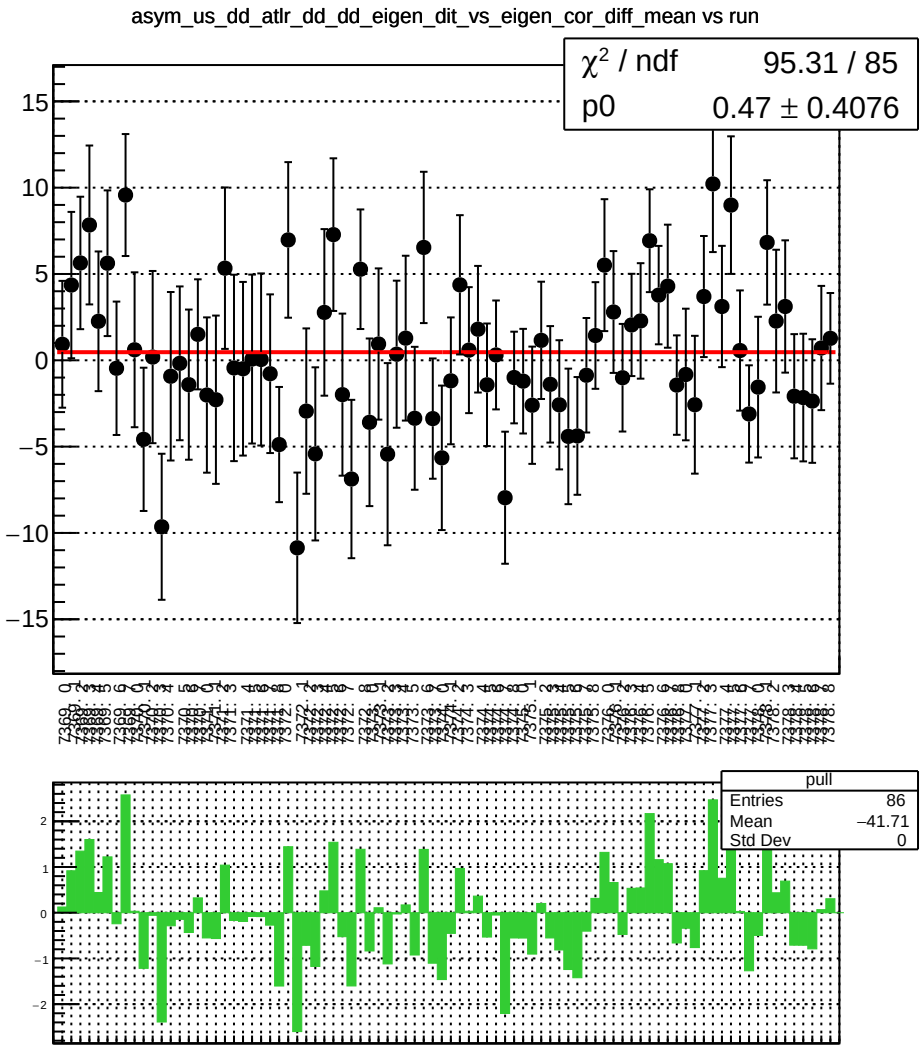

pull1D
Entries 86
Mean −0.01369
Std Dev 1.082

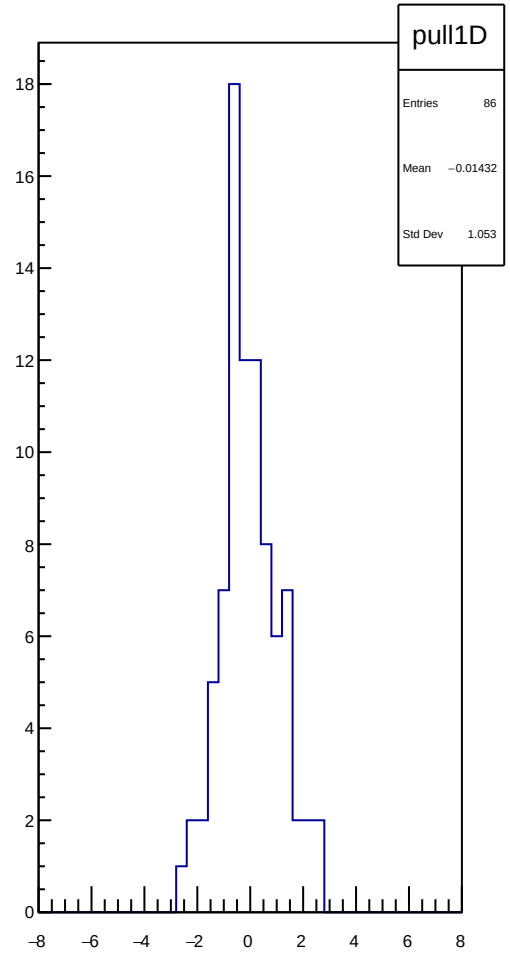

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7726 / 85
p0 0.001857 ± 1.434e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

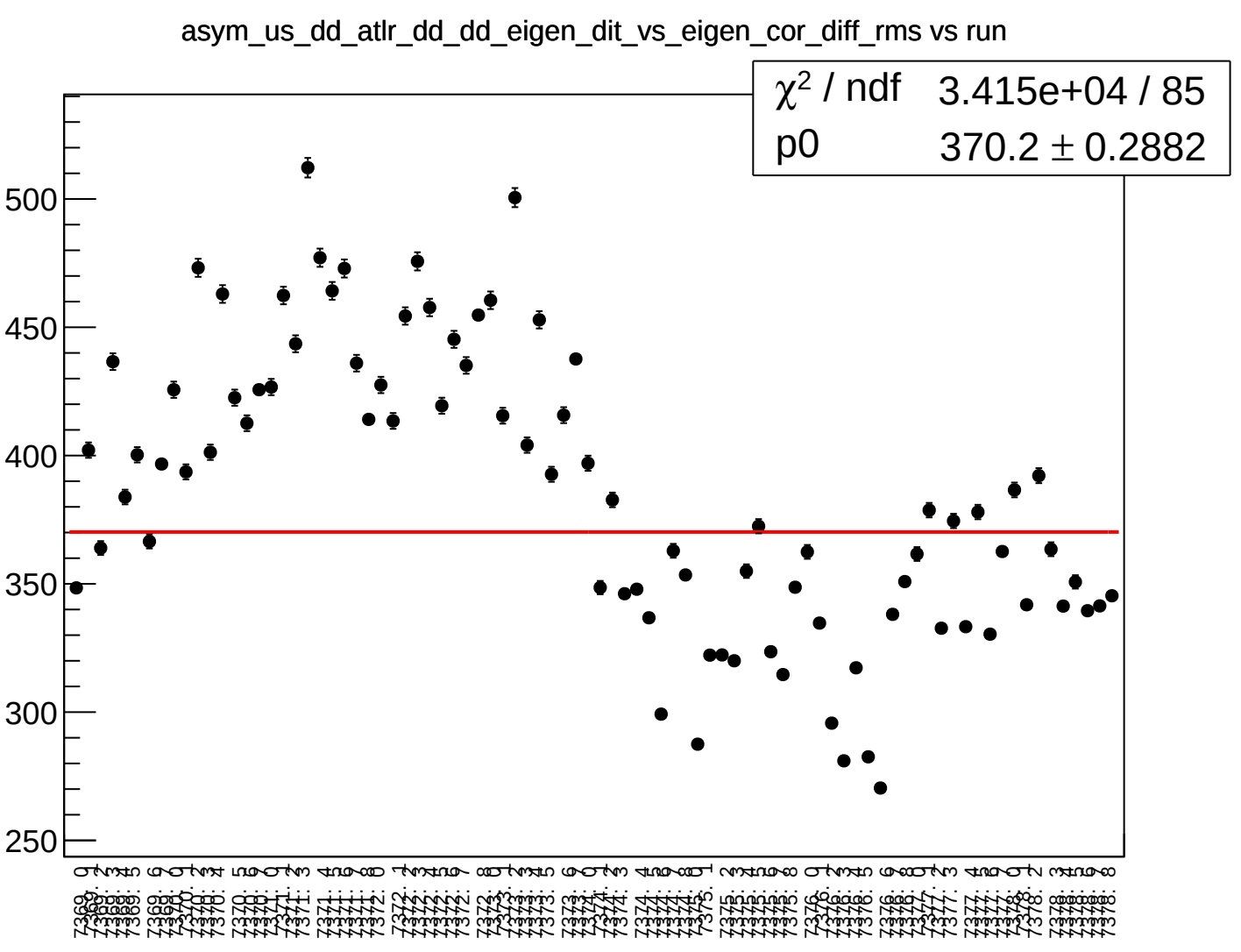

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.31 / 85
p0 0.47 ± 0.4076
pull
Entries 86
Mean −41.71
Std Dev 0

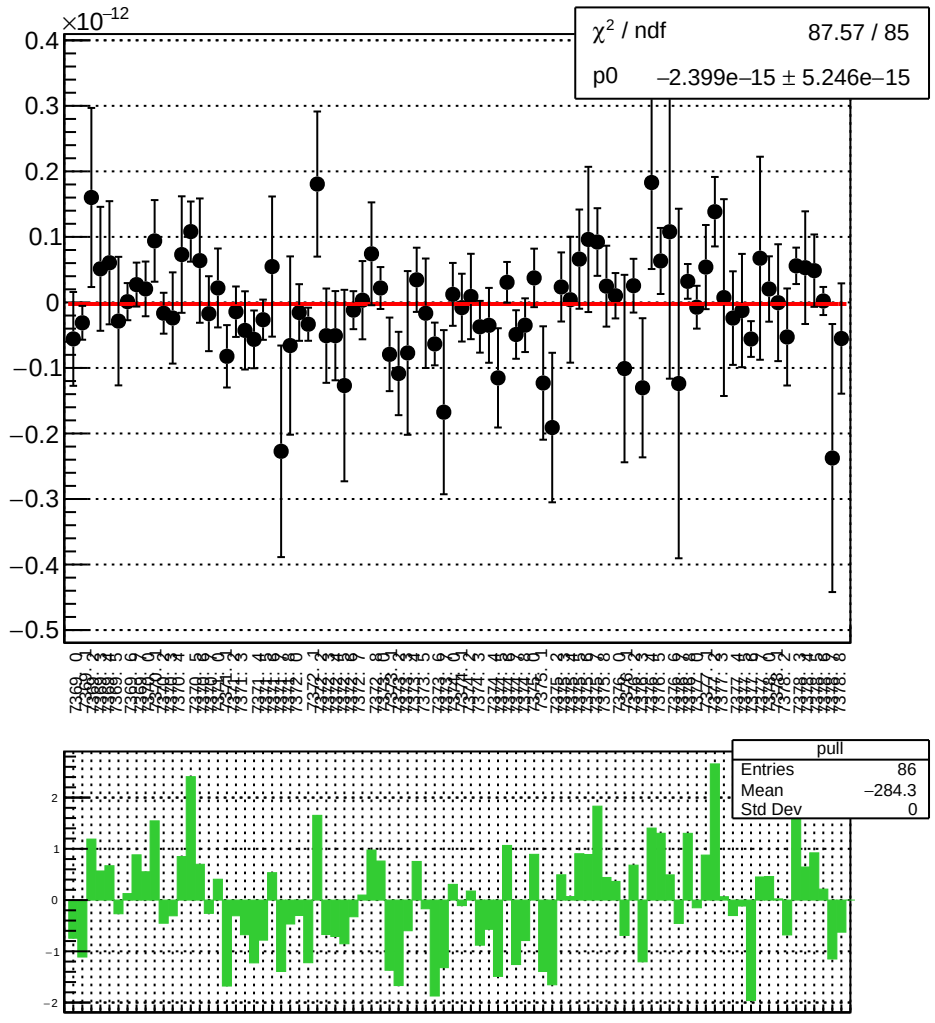

pull1D
Entries 86
Mean −0.01432
Std Dev 1.053

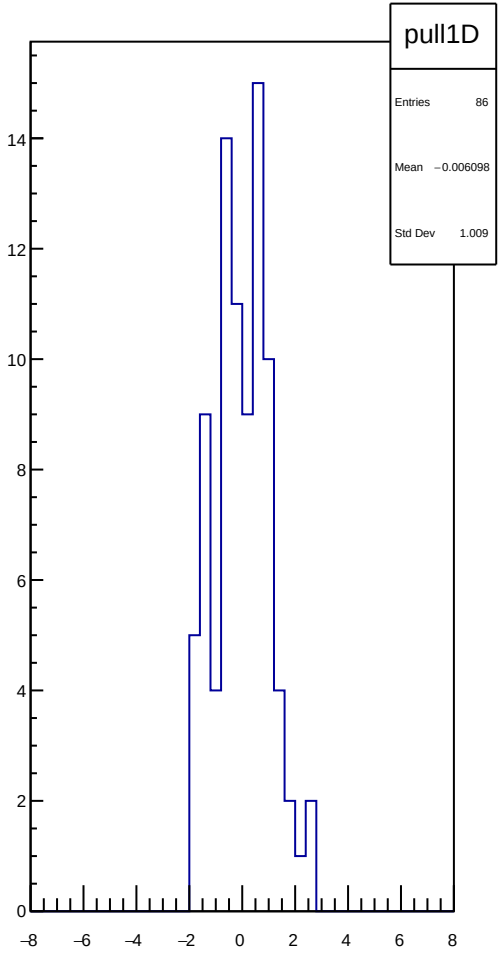

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.415e+04 / 85
p0 370.2 ± 0.2882
500
450
400
350
300
250

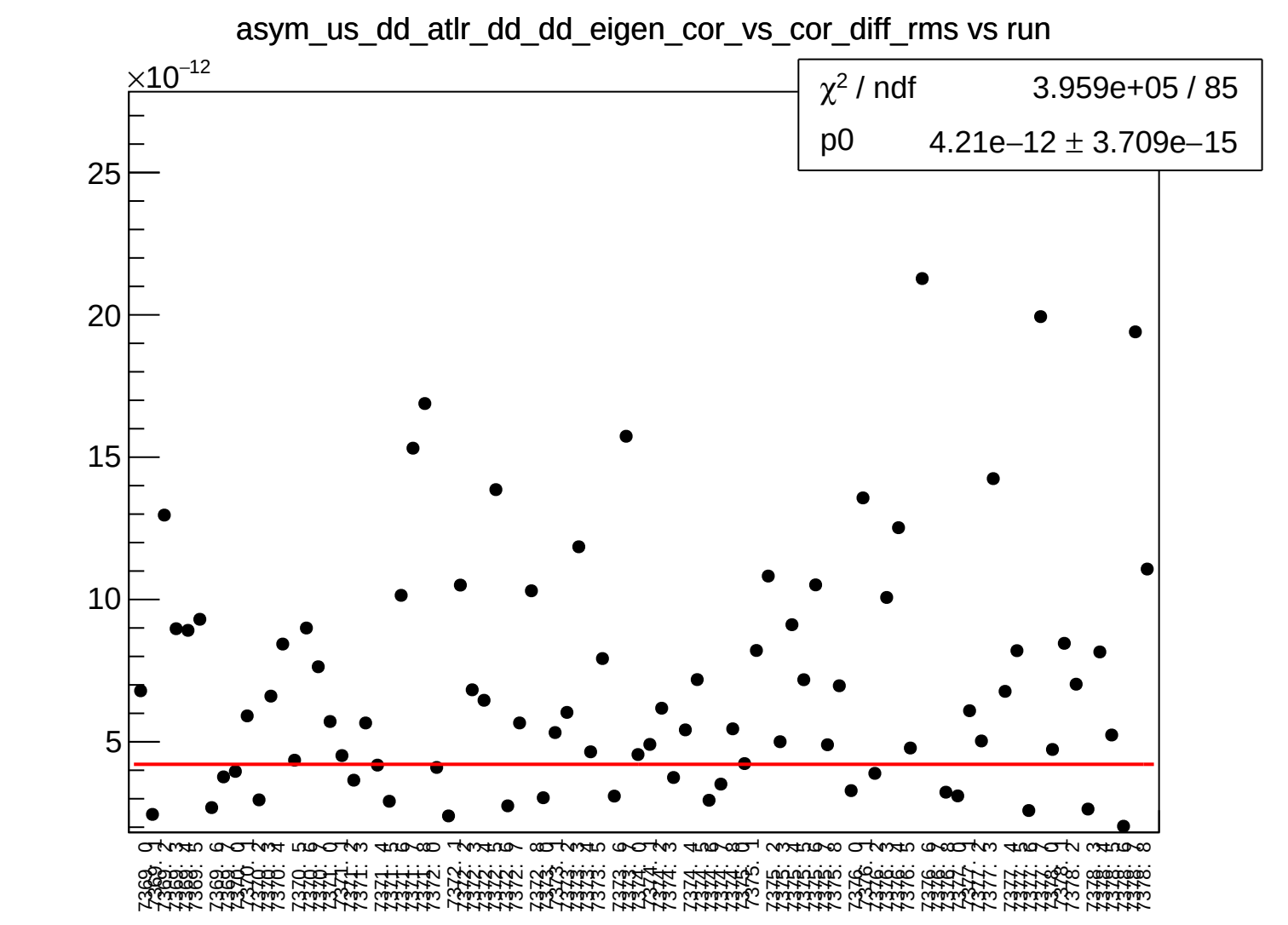

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.31 / 85
p0 0.47 ± 0.4076
pull
Entries 86
Mean −41.71
Std Dev 0

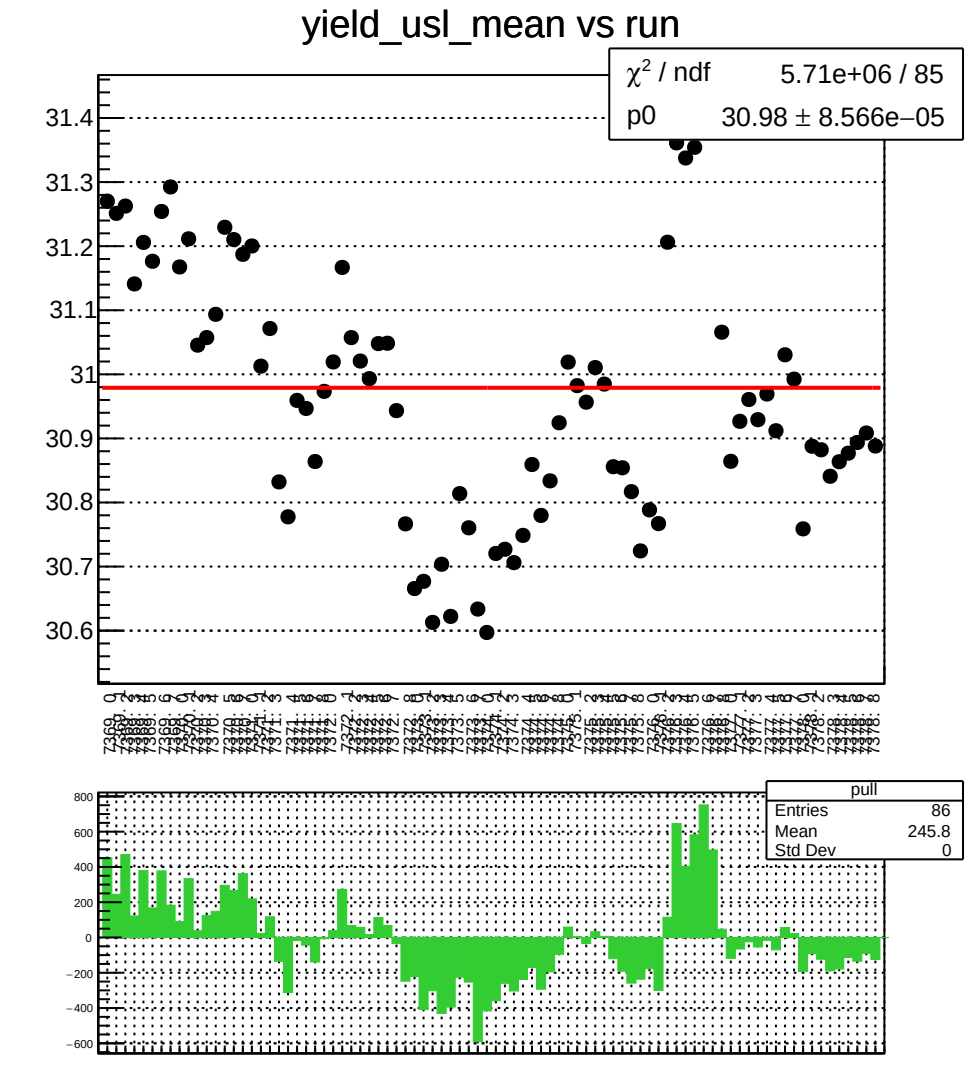

pull1D
Entries 86
Mean −0.01432
Std Dev 1.053

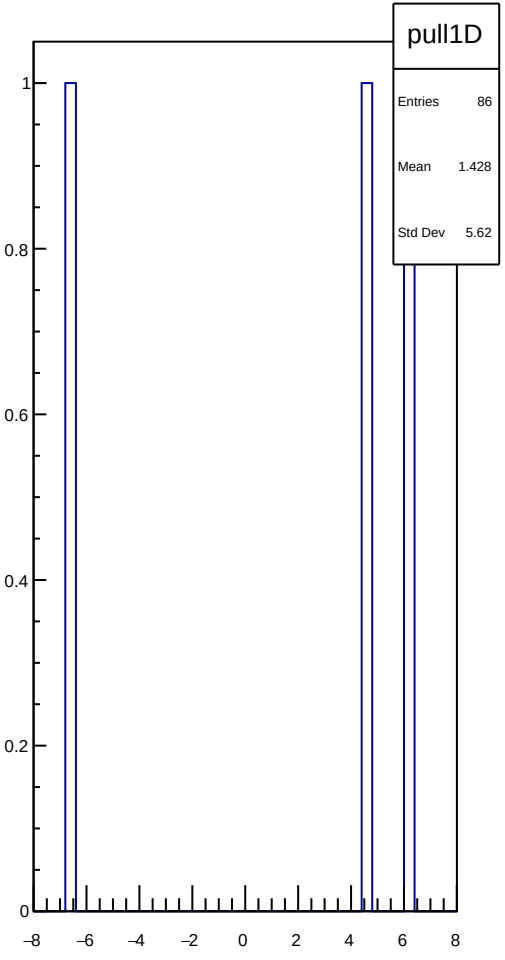

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.415e+04 / 85
p0 370.2 ± 0.2882
500
450
400
350
300
250

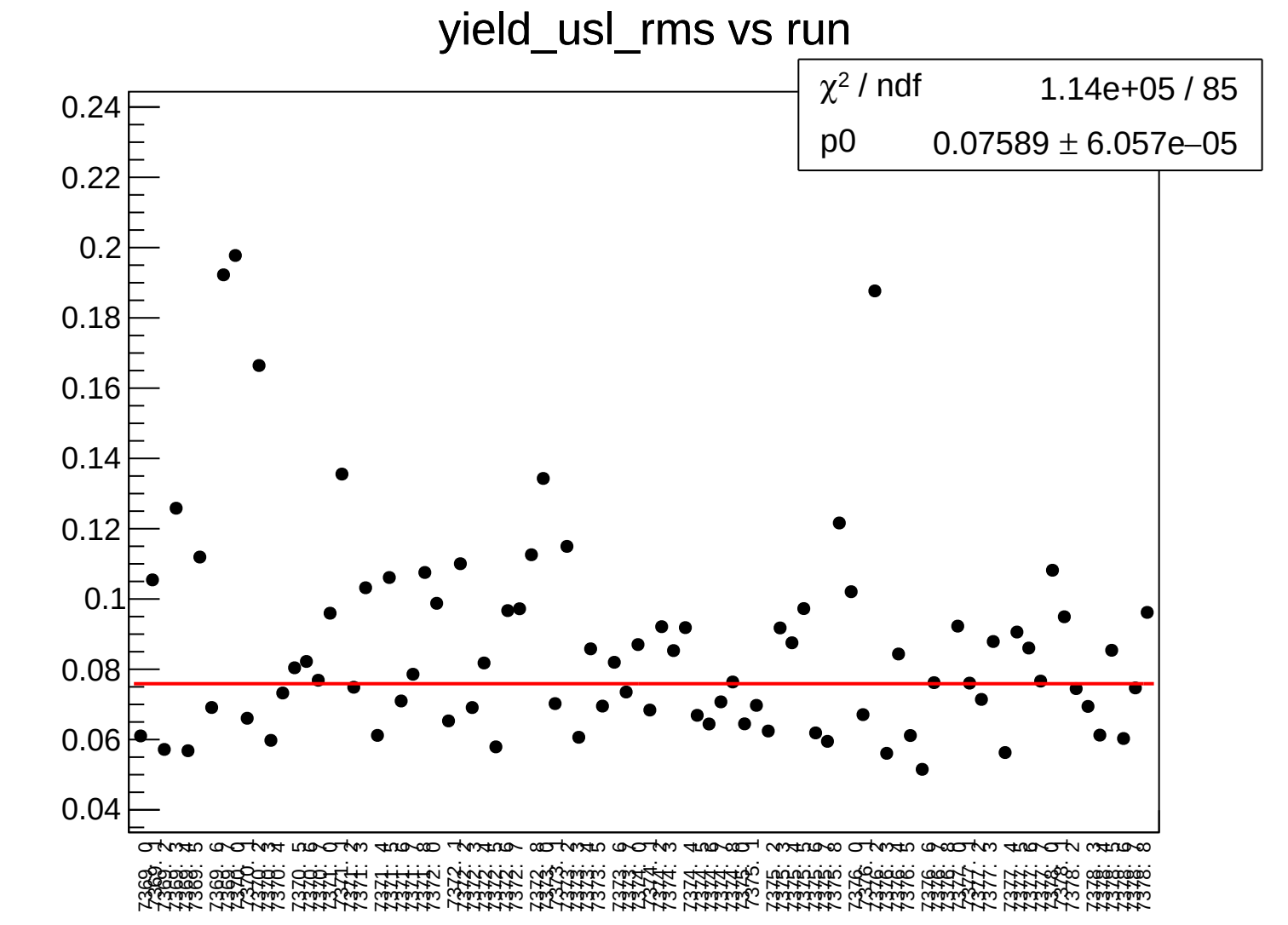

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.57 / 85
p0 −2.399e−15 ± 5.246e−15
pull
Entries 86
Mean −284.3
Std Dev 0

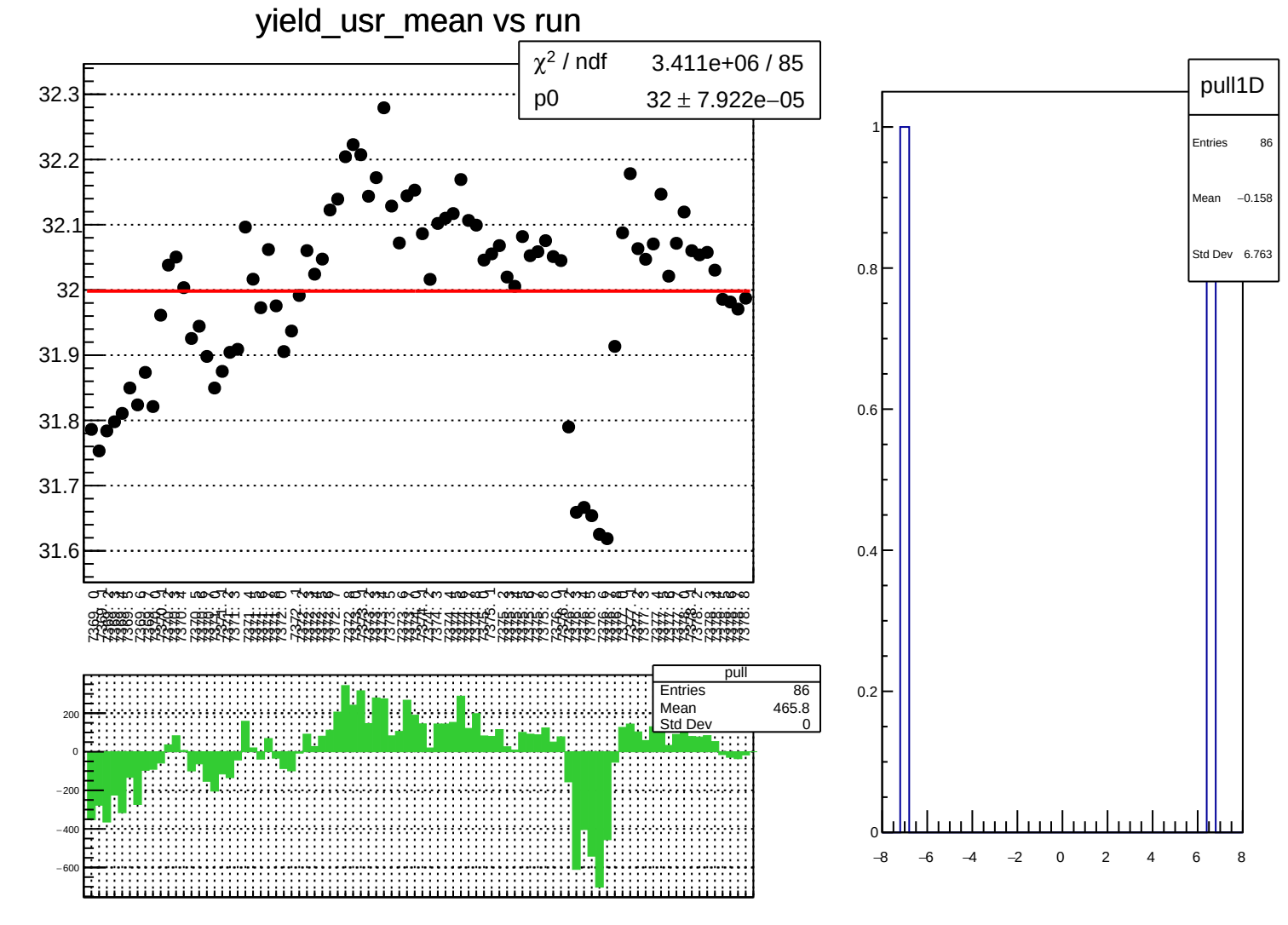

pull1D
Entries 86
Mean −0.006098
Std Dev 1.009

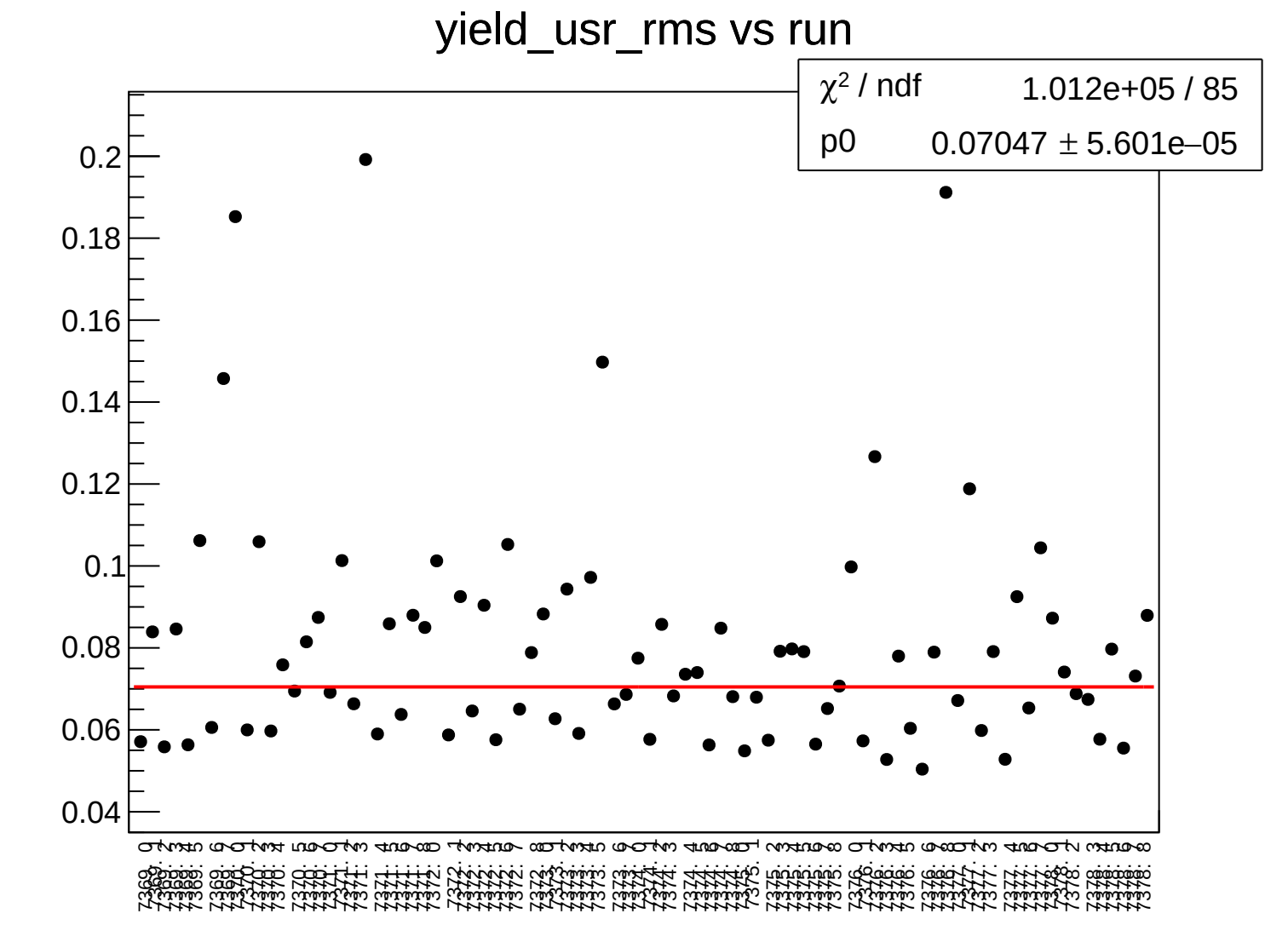

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.959e+05 / 85
p0 4.21e−12 ± 3.709e−15
25
20
15
10
5

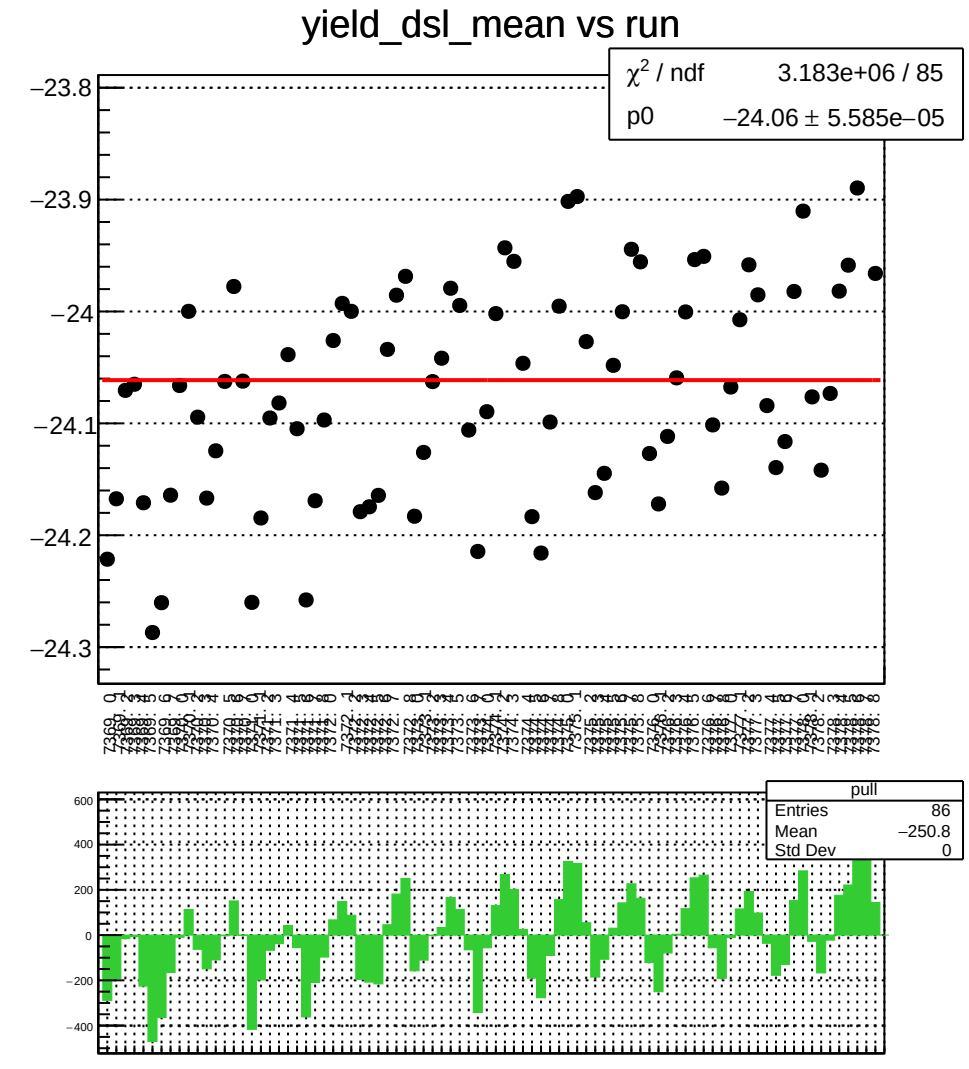

yield_usl_mean vs run
χ^2 / ndf 5.71e+06 / 85
p0 30.98 ± 8.566e−05
31.4
31.3
31.2
31.1
31
30.9
30.8
30.7
30.6
pull
Entries 86
Mean 245.8
Std Dev 0
800
600
400
200
0
−200
−400
−600

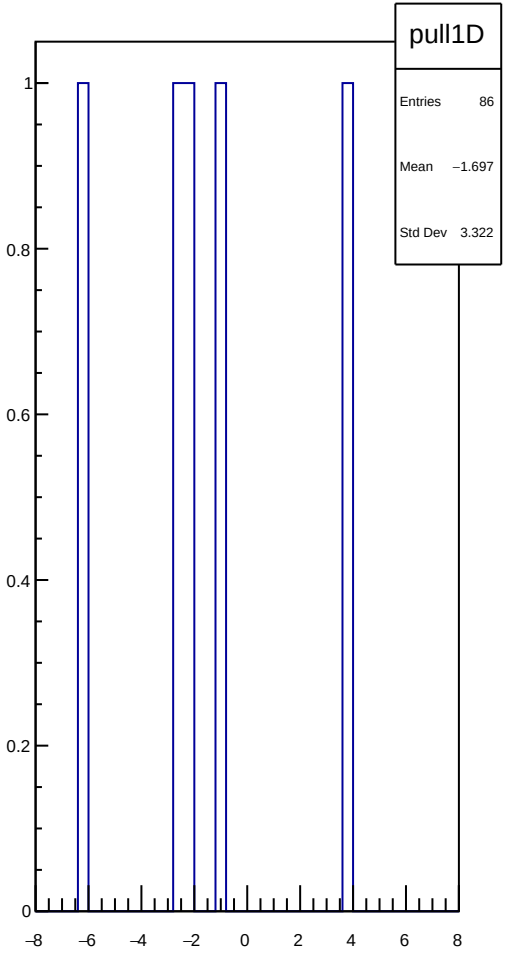

pull1D
Entries 86
Mean 1.428
Std Dev 5.62
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

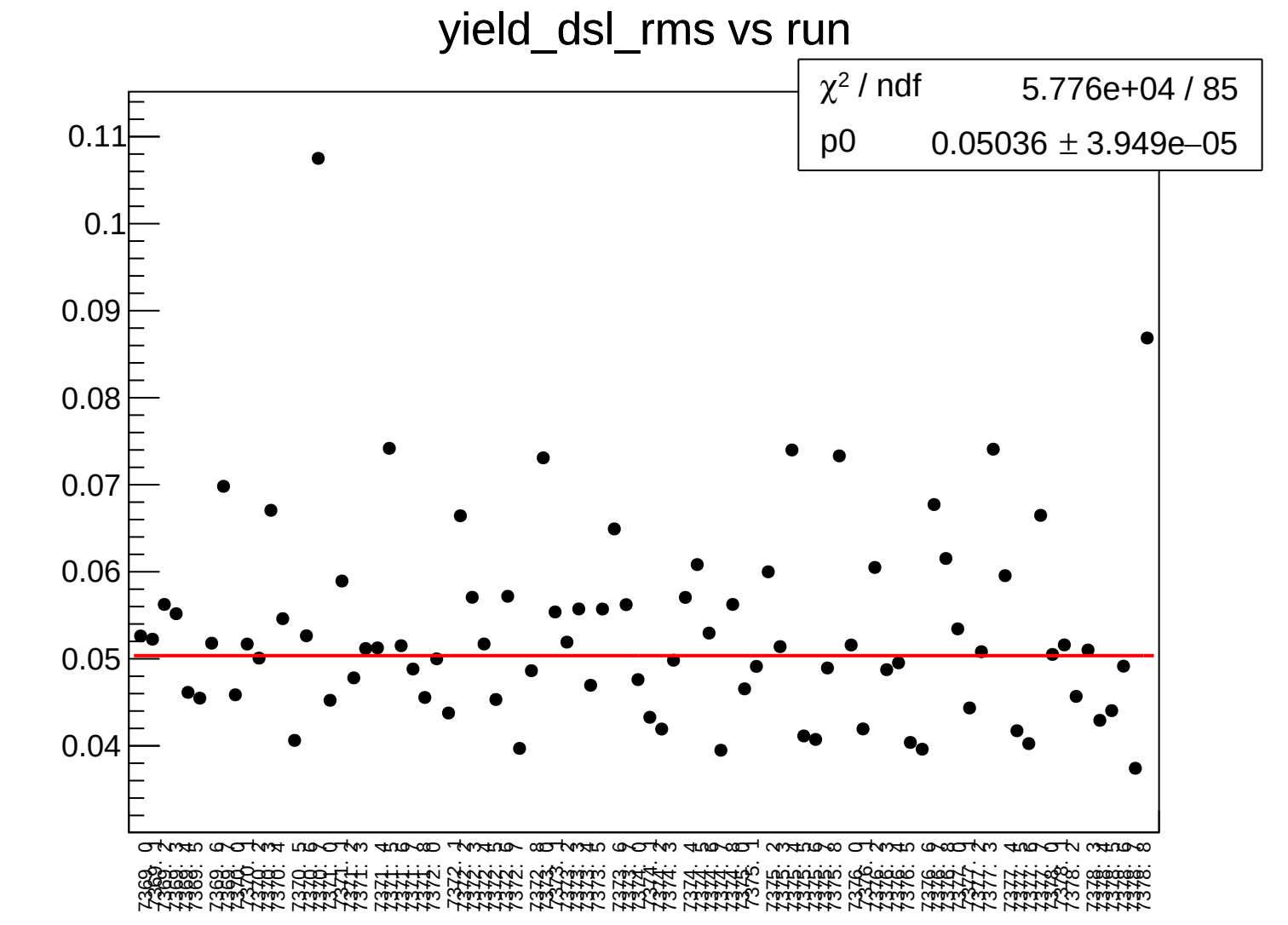

yield_usl_rms vs run
χ² / ndf 1.14e+05 / 85
p0 0.07589 ± 6.057e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

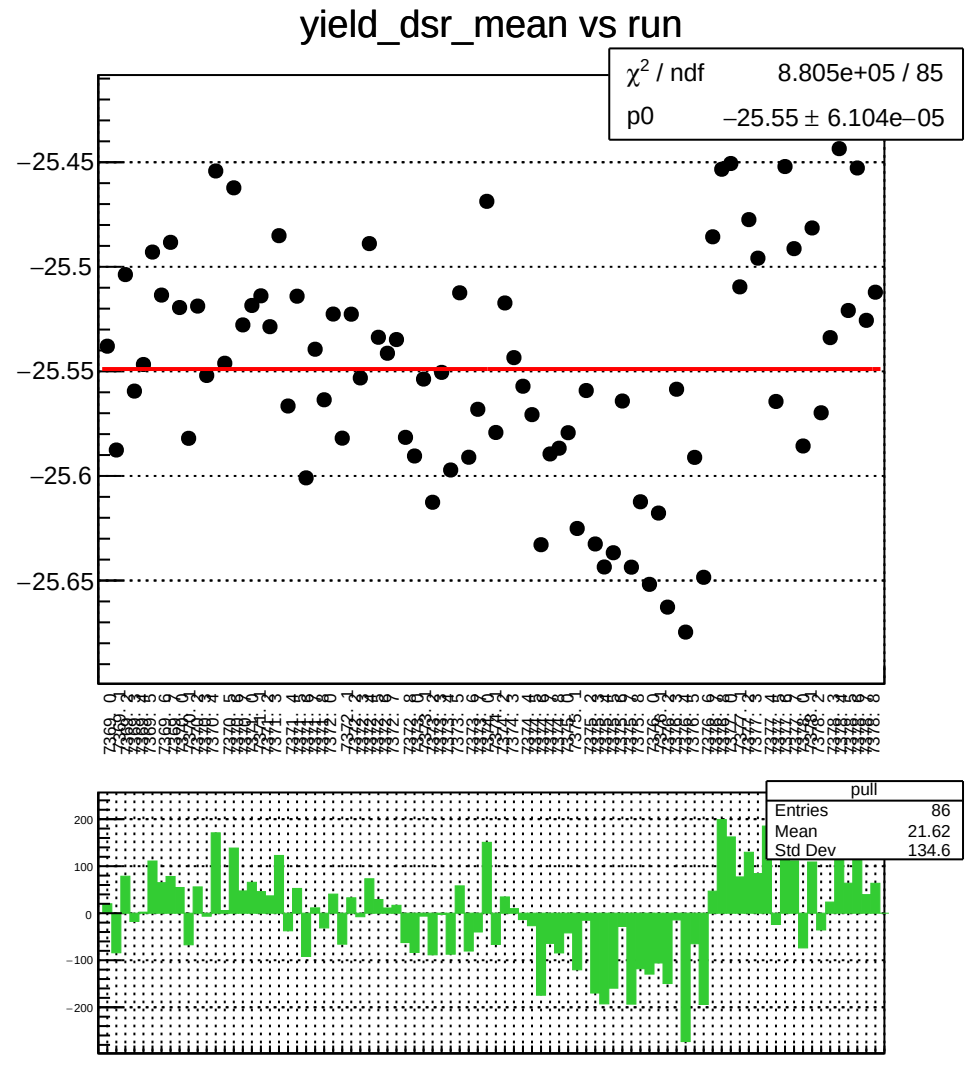

yield_usr_mean vs run
χ² / ndf 3.411e+06 / 85
p0 32 ± 7.922e−05
32.3
32.2
32.1
32
31.9
31.8
31.7
31.6
pull
Entries 86
Mean 465.8
Std Dev 0
200
0
−200
−400
−600
pull1D
Entries 86
Mean −0.158
Std Dev 6.763
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

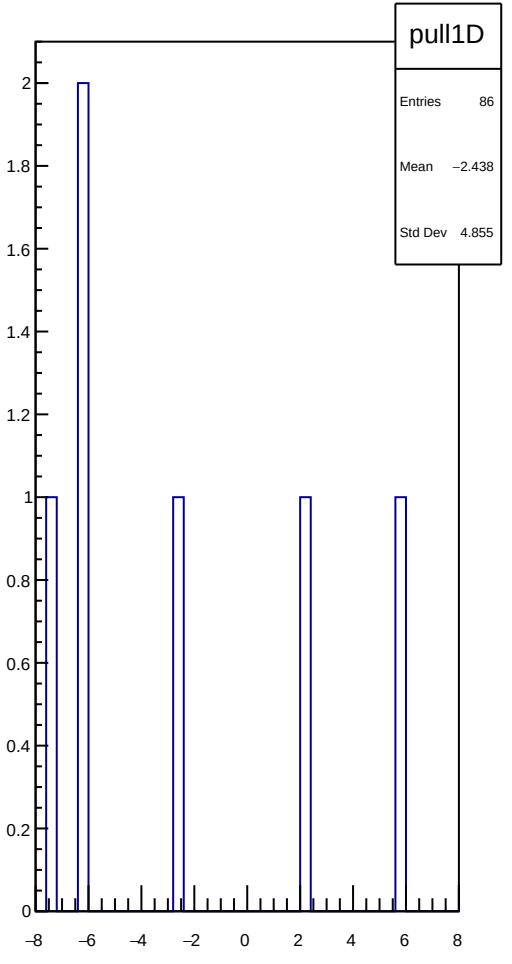

yield_usr_rms vs run
χ² / ndf 1.012e+05 / 85
p0 0.07047 ± 5.601e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

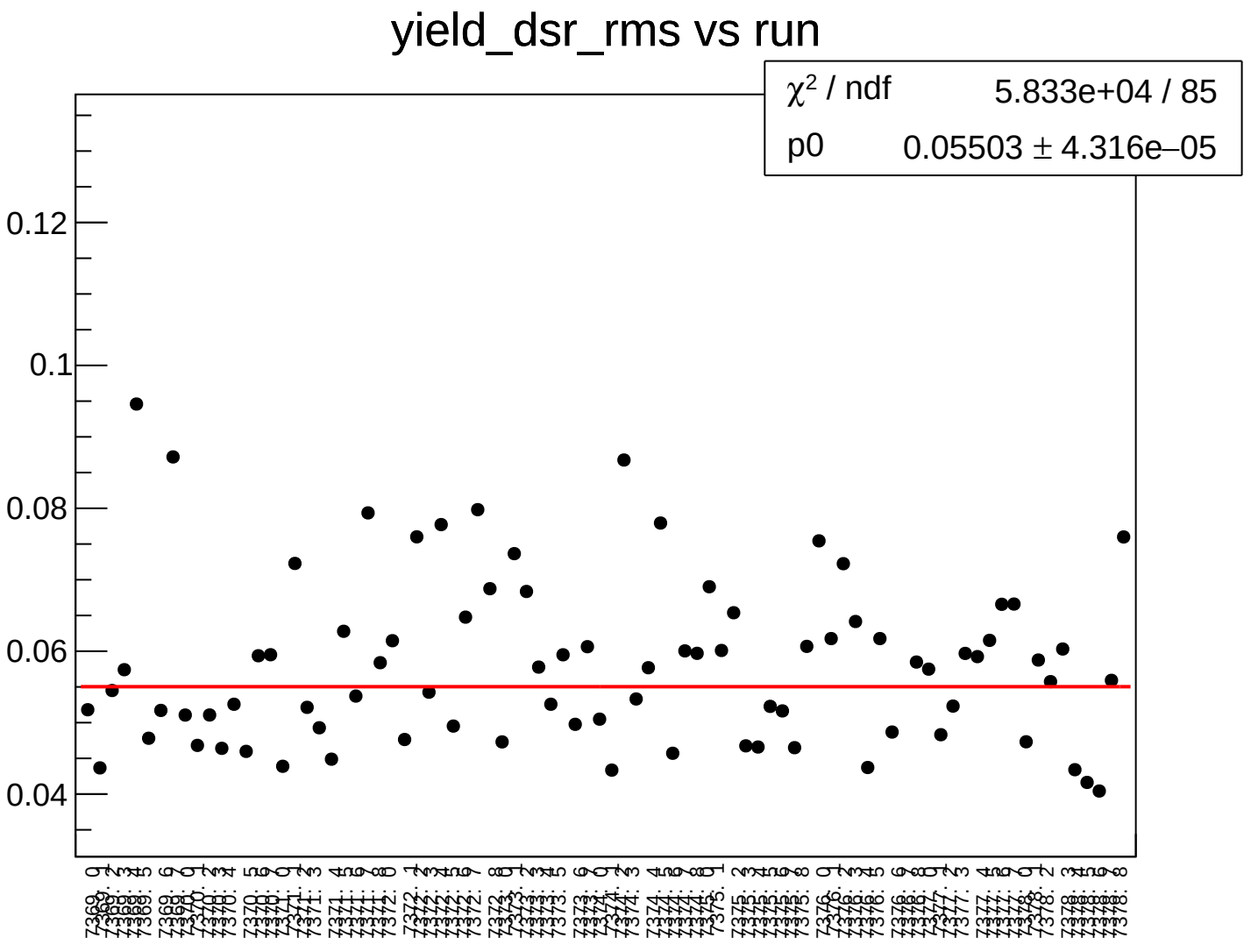

yield_dsl_mean vs run
χ² / ndf 3.183e+06 / 85
p0 −24.06 ± 5.585e−05
−23.8
−23.9
−24
−24.1
−24.2
−24.3
pull
Entries 86
Mean −250.8
Std Dev 0
600
400
200
0
−200
−400

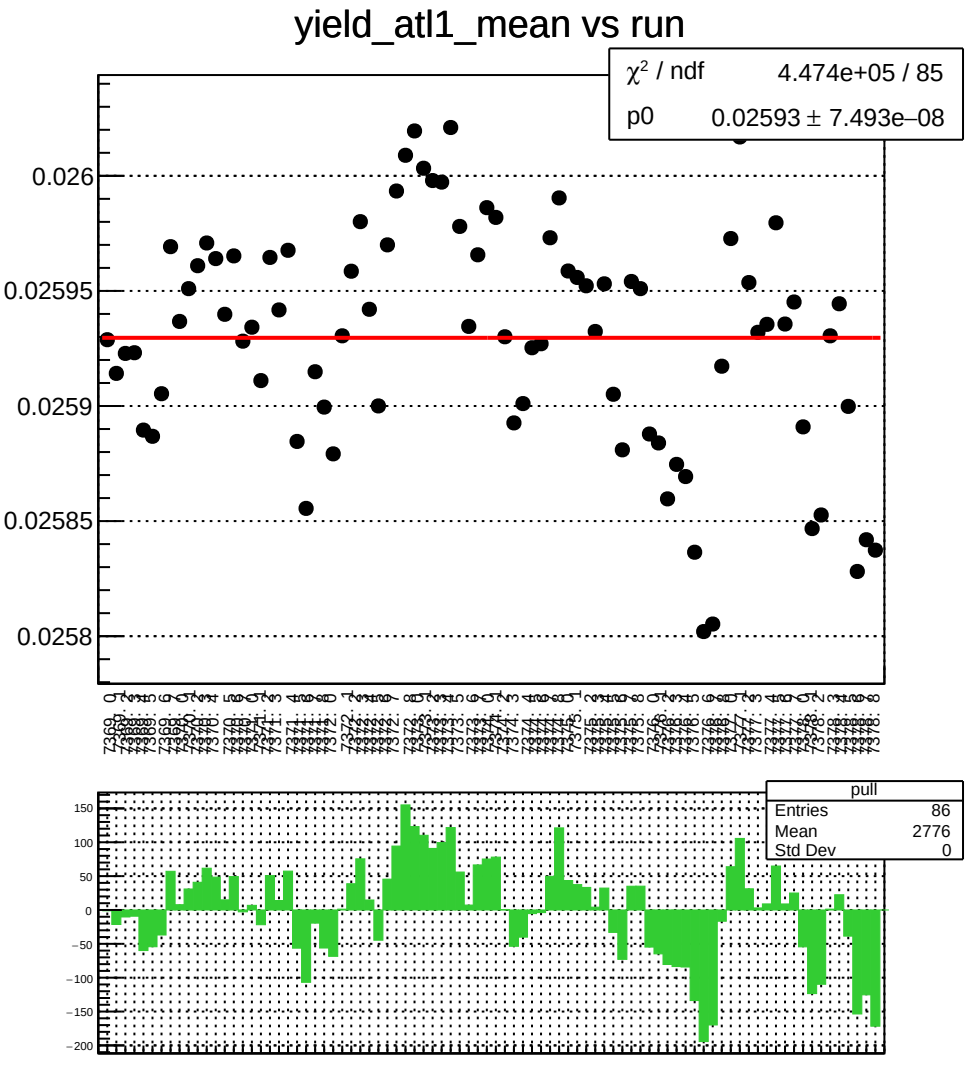

pull1D
Entries 86
Mean −1.697
Std Dev 3.322
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

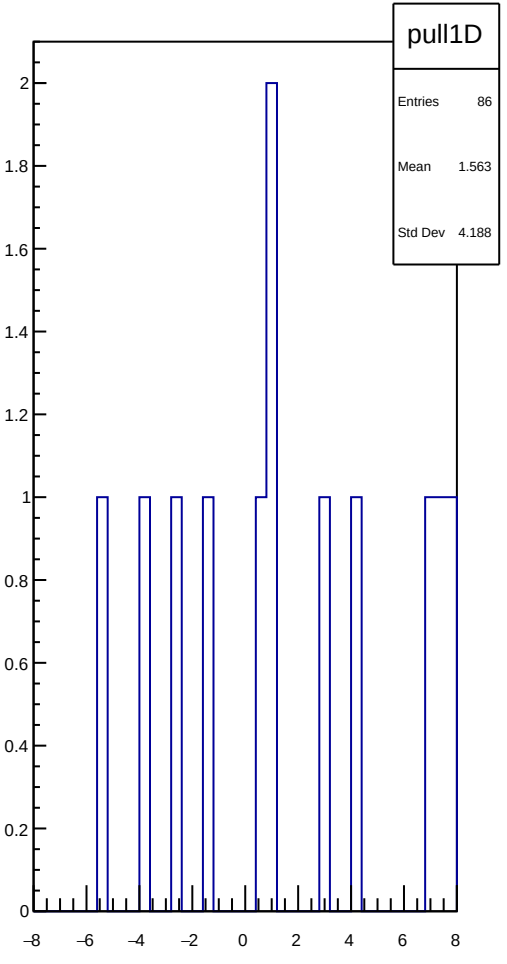

yield_dsl_rms vs run
χ² / ndf 5.776e+04 / 85
p0 0.05036 ± 3.949e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

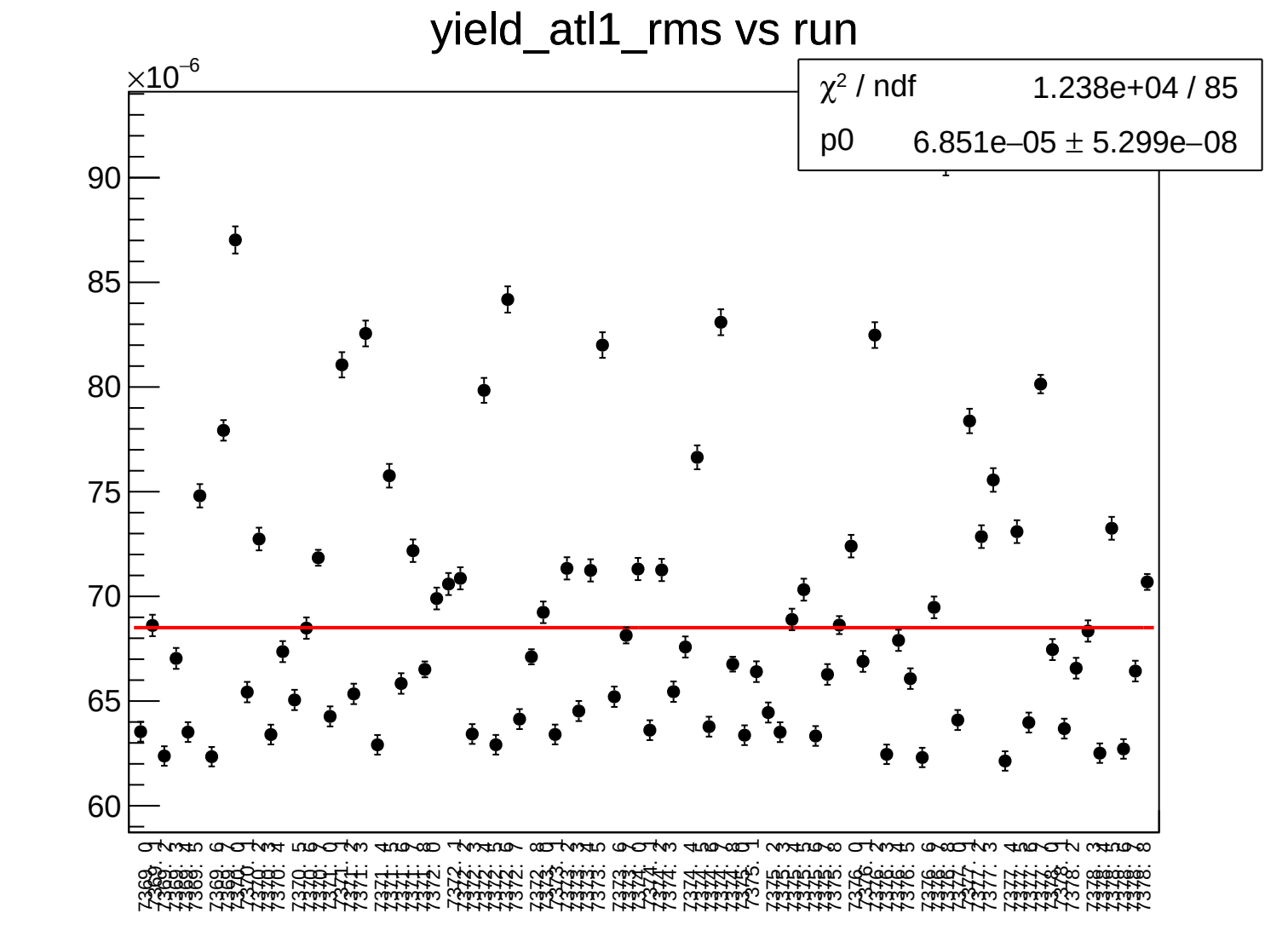

yield_dsr_mean vs run
χ² / ndf 8.805e+05 / 85
p0 −25.55 ± 6.104e−05
−25.45
−25.5
−25.55
−25.6
−25.65
pull
Entries 86
Mean 21.62
Std Dev 134.6
200
100
0
−100
−200

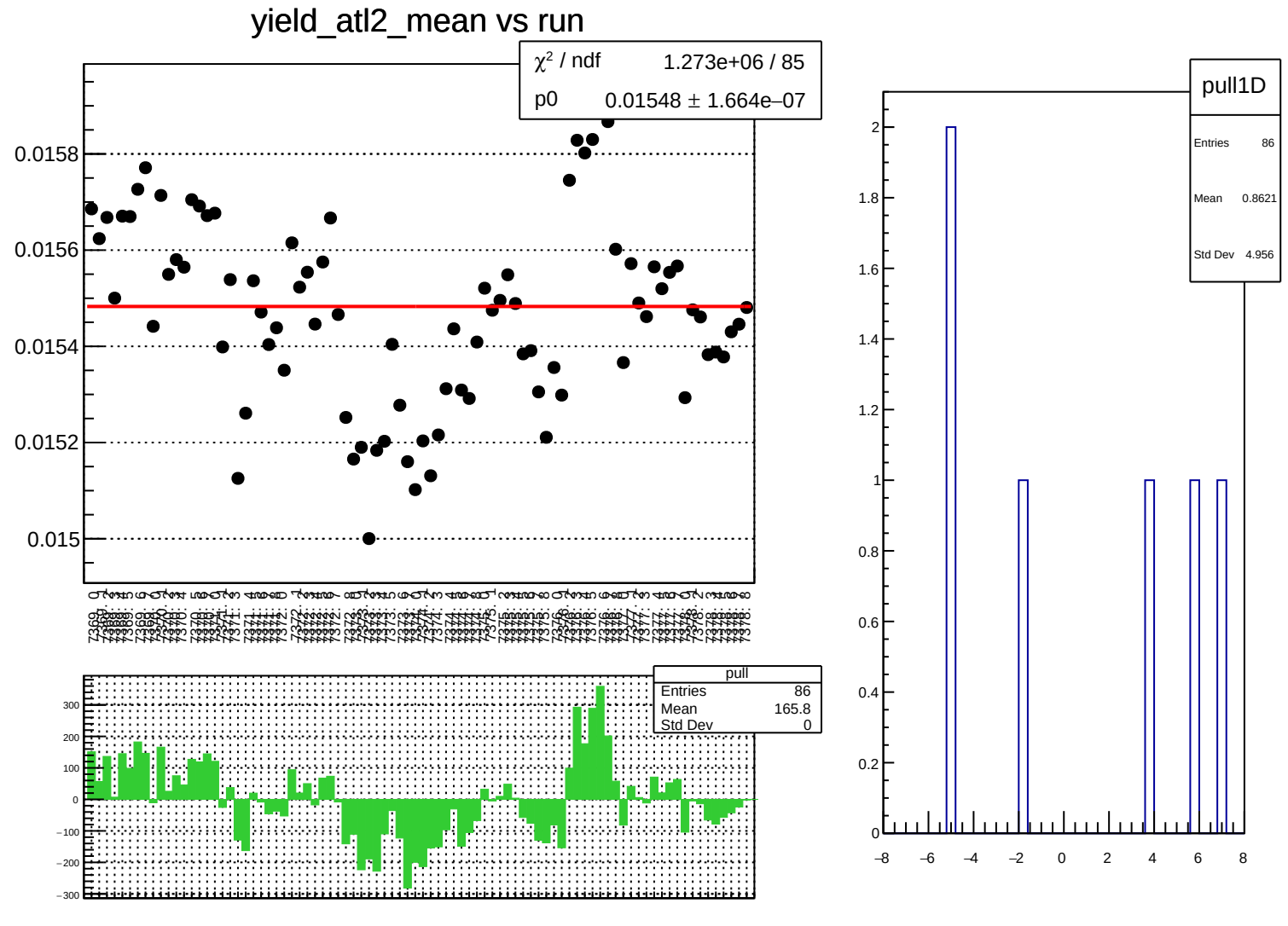

pull1D
Entries 86
Mean −2.438
Std Dev 4.855
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

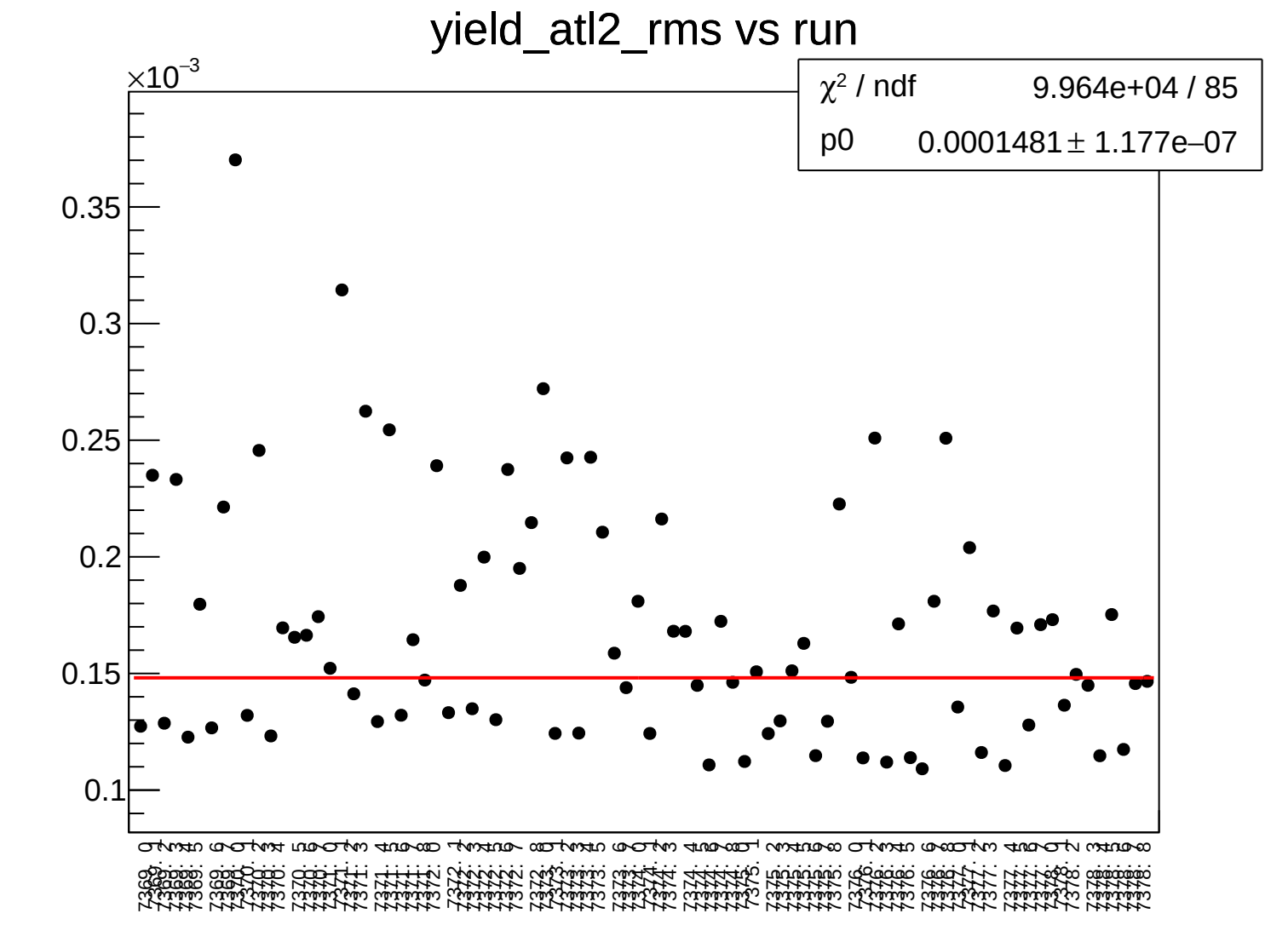

yield_dsr_rms vs run
χ² / ndf 5.833e+04 / 85
p0 0.05503 ± 4.316e–05
0.12
0.1
0.08
0.06
0.04

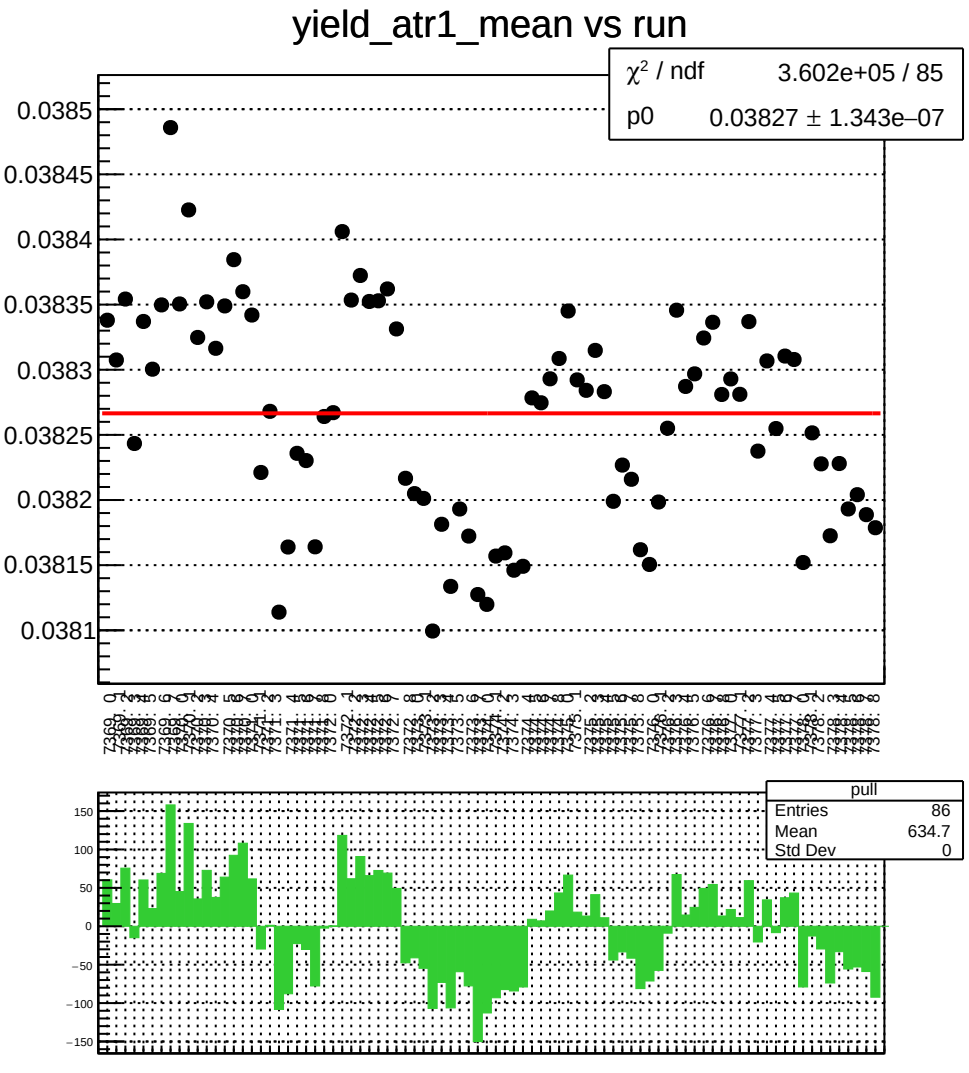

yield_atl1_mean vs run
χ² / ndf 4.474e+05 / 85
p0 0.02593 ± 7.493e−08
0.026
0.02595
0.0259
0.02585
0.0258
pull
Entries 86
Mean 2776
Std Dev 0
150
100
50
0
−50
−100
−150
−200

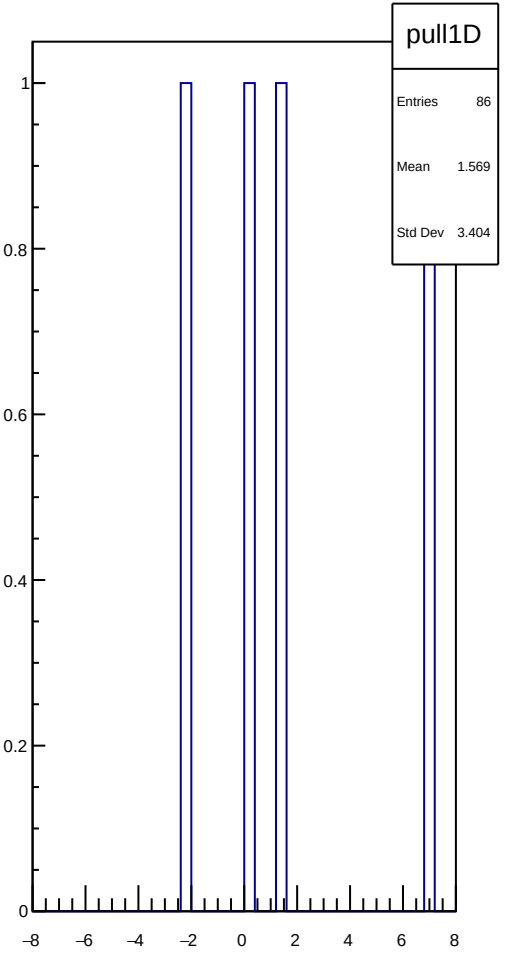

pull1D
Entries 86
Mean 1.563
Std Dev 4.188
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

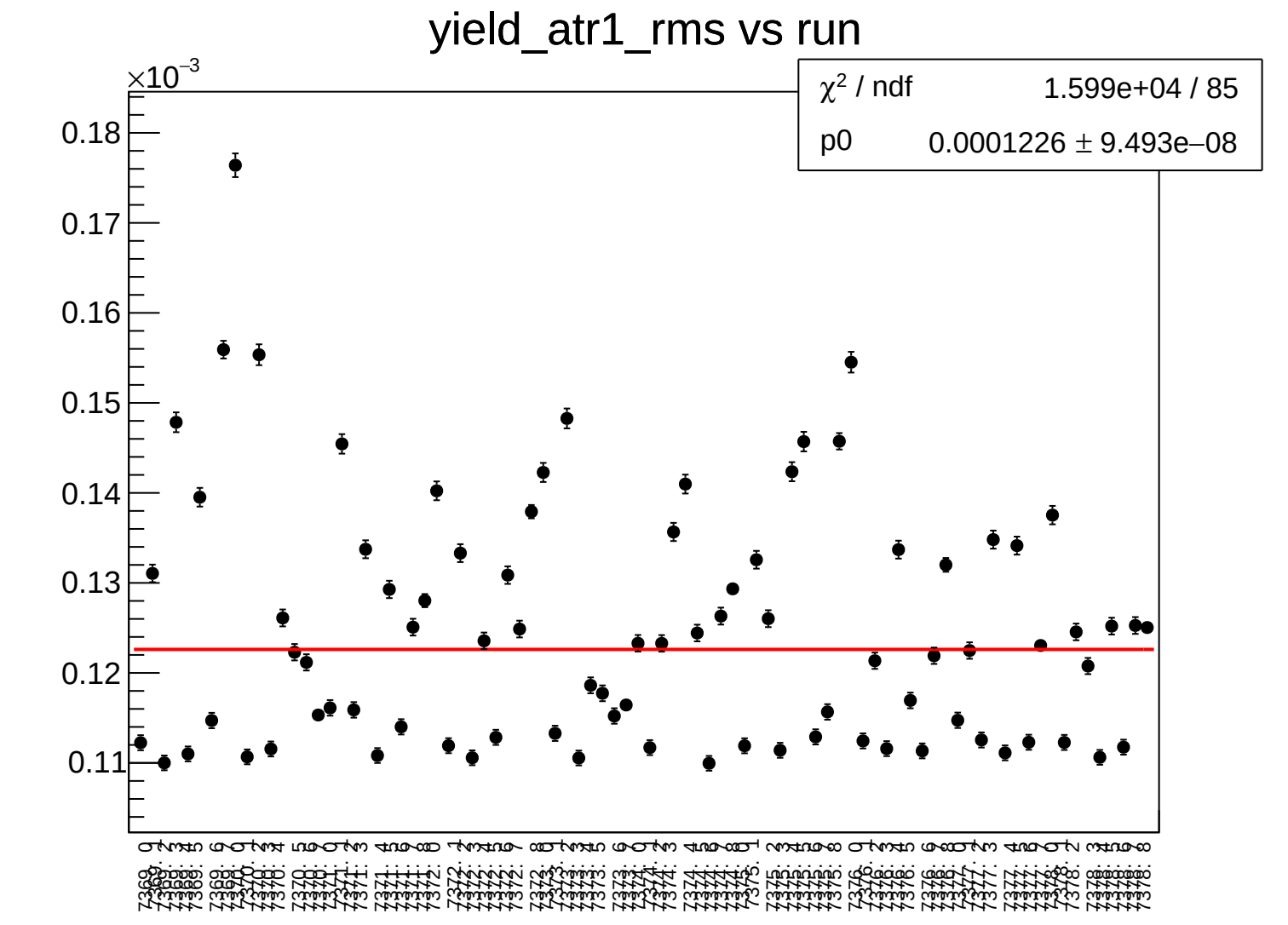

yield_atl1_rms vs run
×10⁻⁶
χ² / ndf 1.238e+04 / 85
p0 6.851e−05 ± 5.299e−08
90
85
80
75
70
65
60

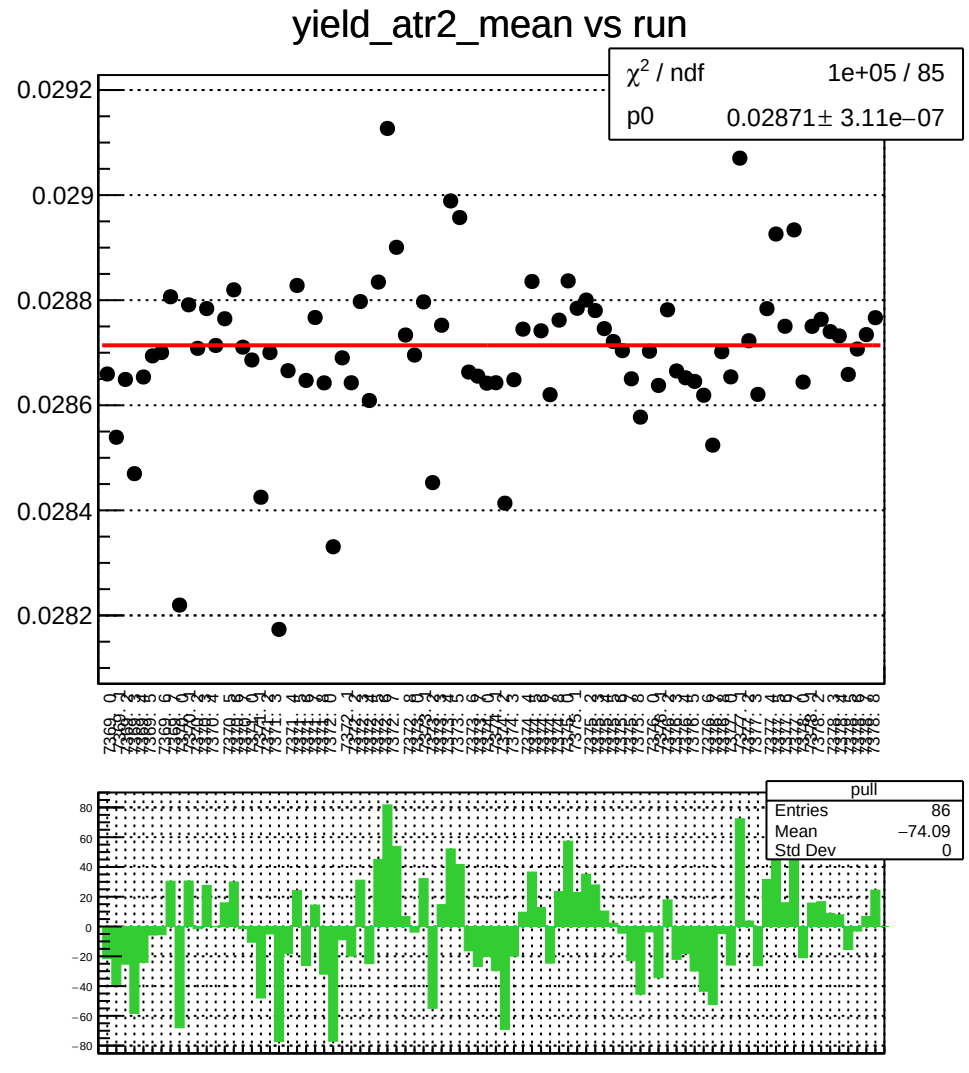

yield_atl2_mean vs run
χ² / ndf 1.273e+06 / 85
p0 0.01548 ± 1.664e−07
0.0158
0.0156
0.0154
0.0152
0.015
pull
Entries 86
Mean 165.8
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 86
Mean 0.8621
Std Dev 4.956
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

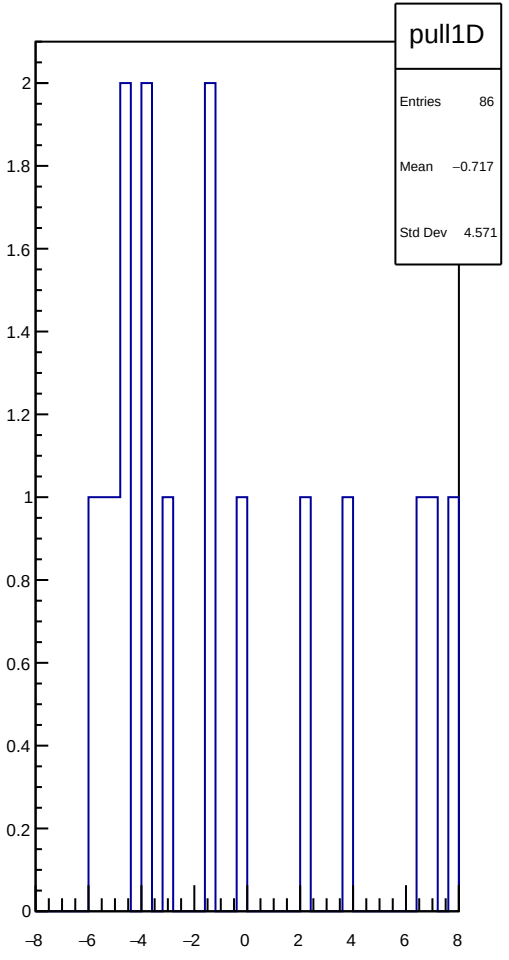

yield_atl2_rms vs run
×10⁻³
χ² / ndf 9.964e+04 / 85
p0 0.0001481 ± 1.177e–07
0.35
0.3
0.25
0.2
0.15
0.1

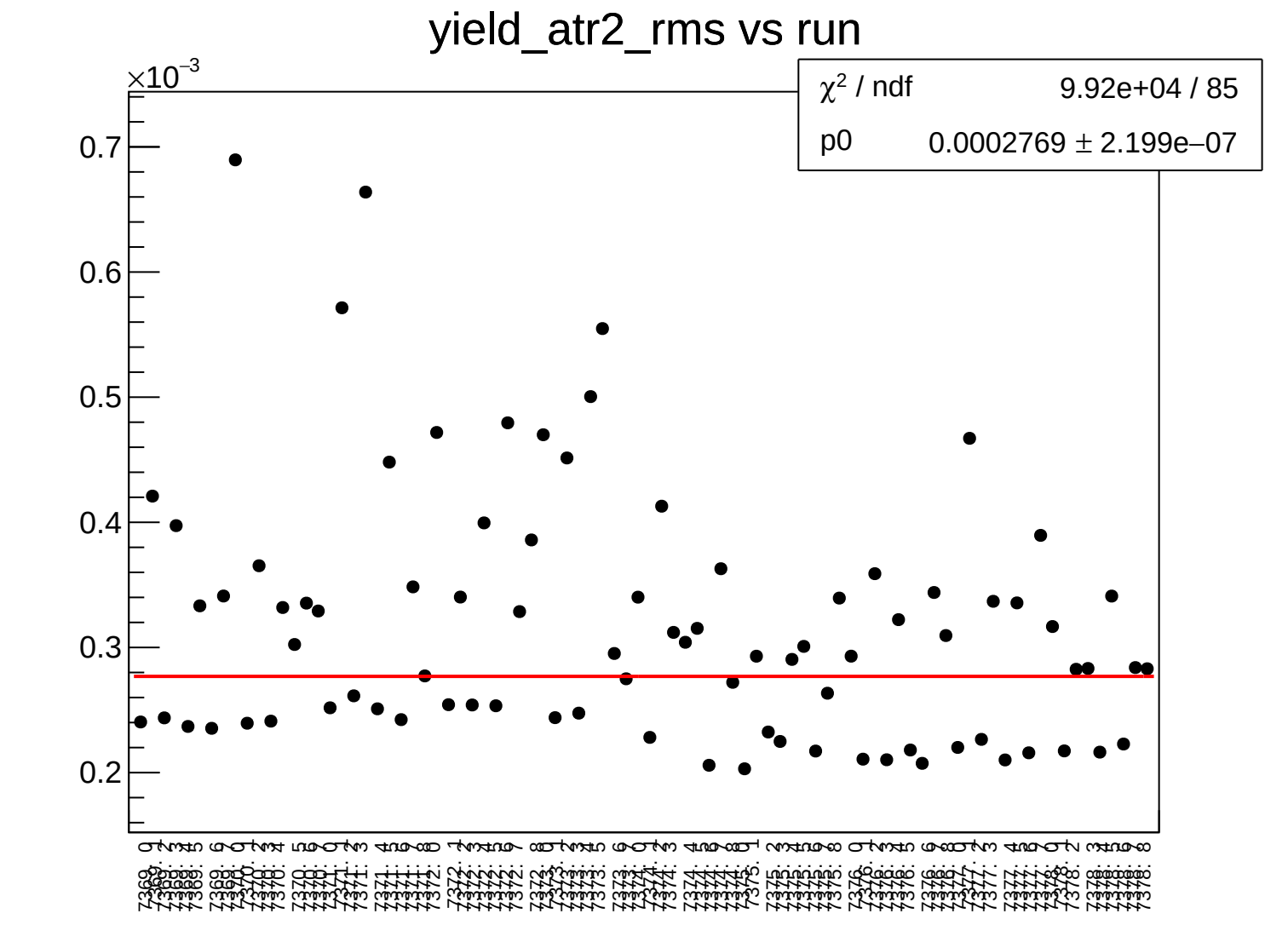

yield_atr1_mean vs run
χ² / ndf 3.602e+05 / 85
p0 0.03827 ± 1.343e−07
0.0385
0.03845
0.0384
0.03835
0.0383
0.03825
0.0382
0.03815
0.0381
pull
Entries 86
Mean 634.7
Std Dev 0
150
100
50
0
−50
−100
−150

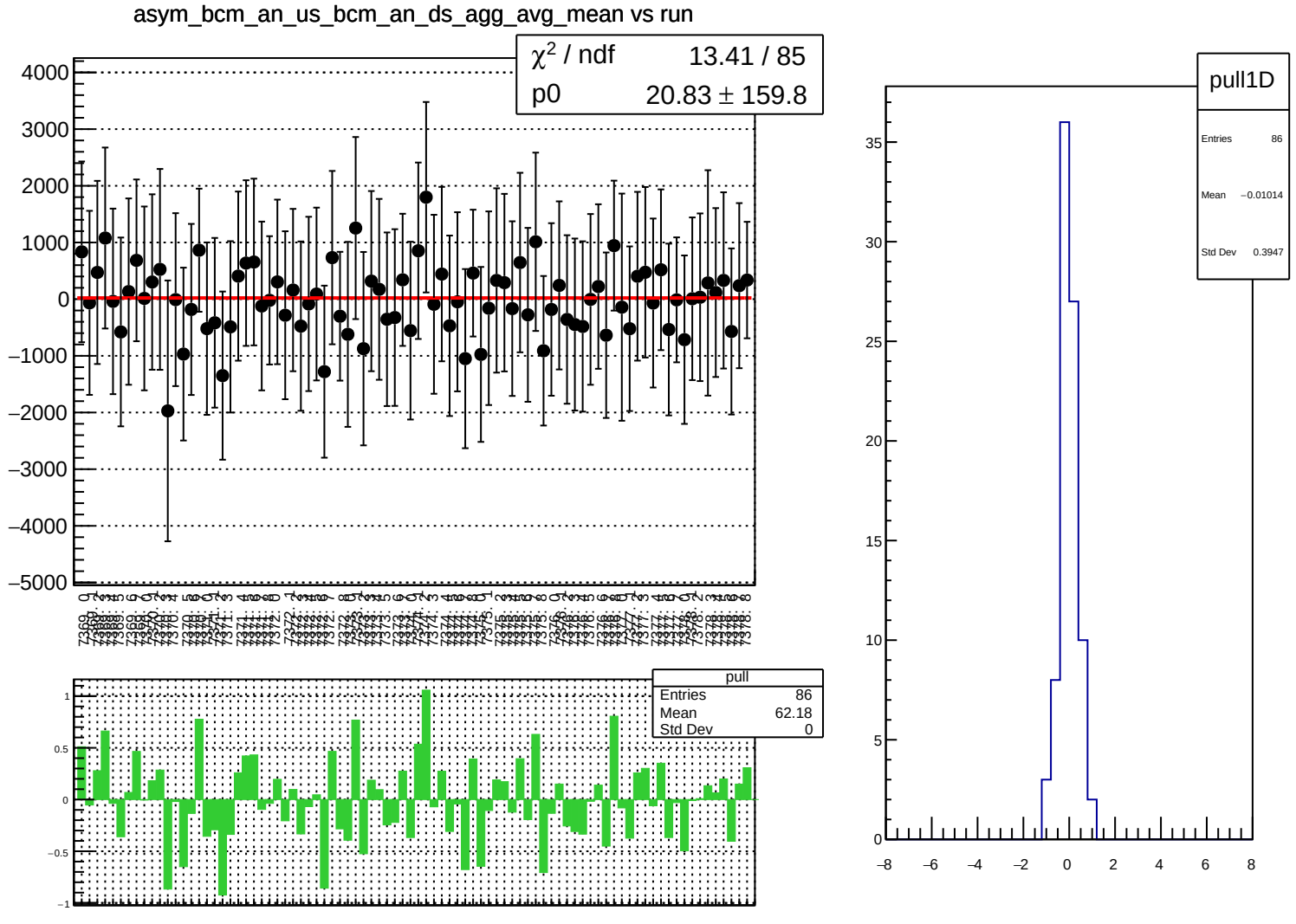

pull1D
Entries 86
Mean 1.569
Std Dev 3.404
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

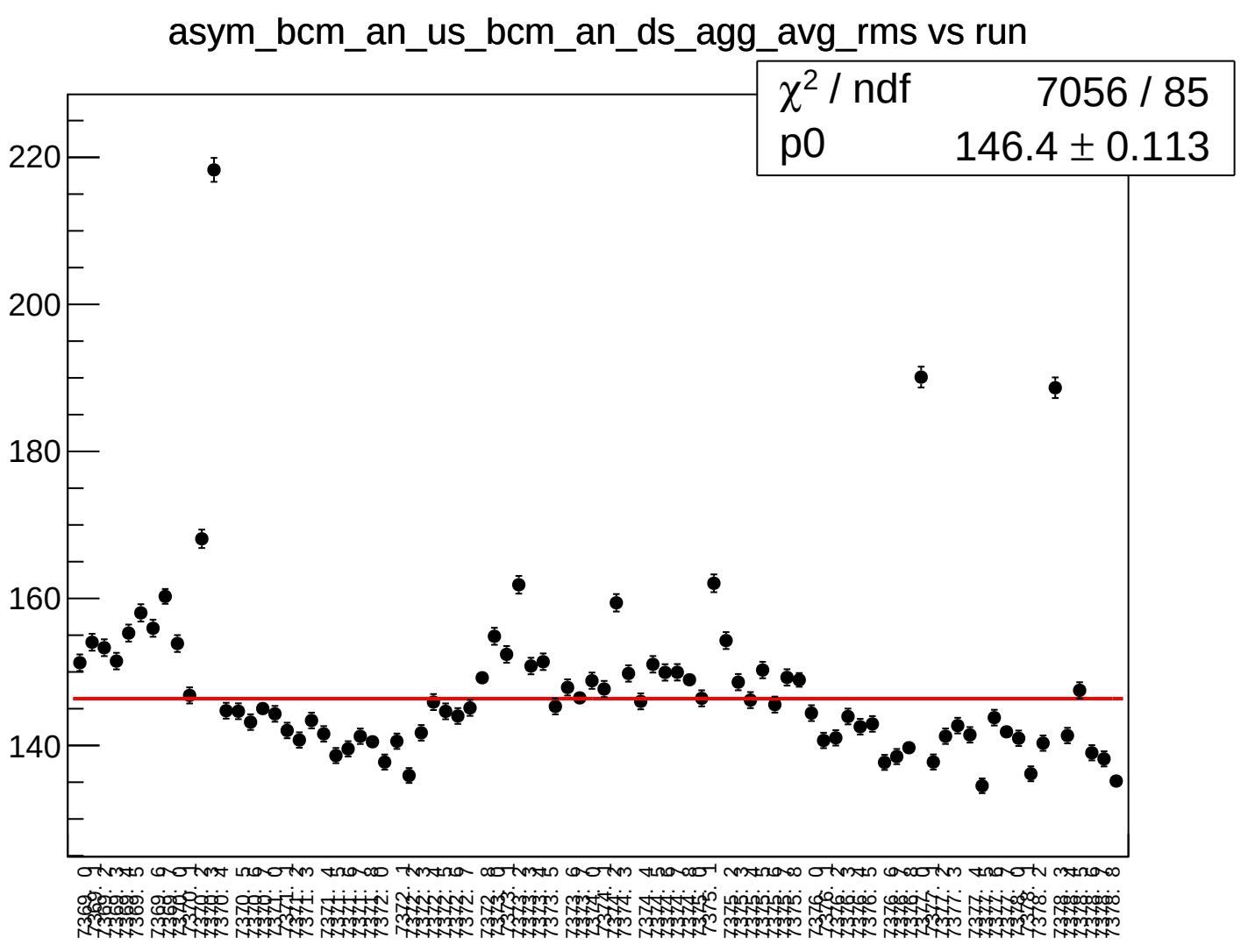

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.599e+04 / 85
p0 0.0001226 ± 9.493e−08
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11

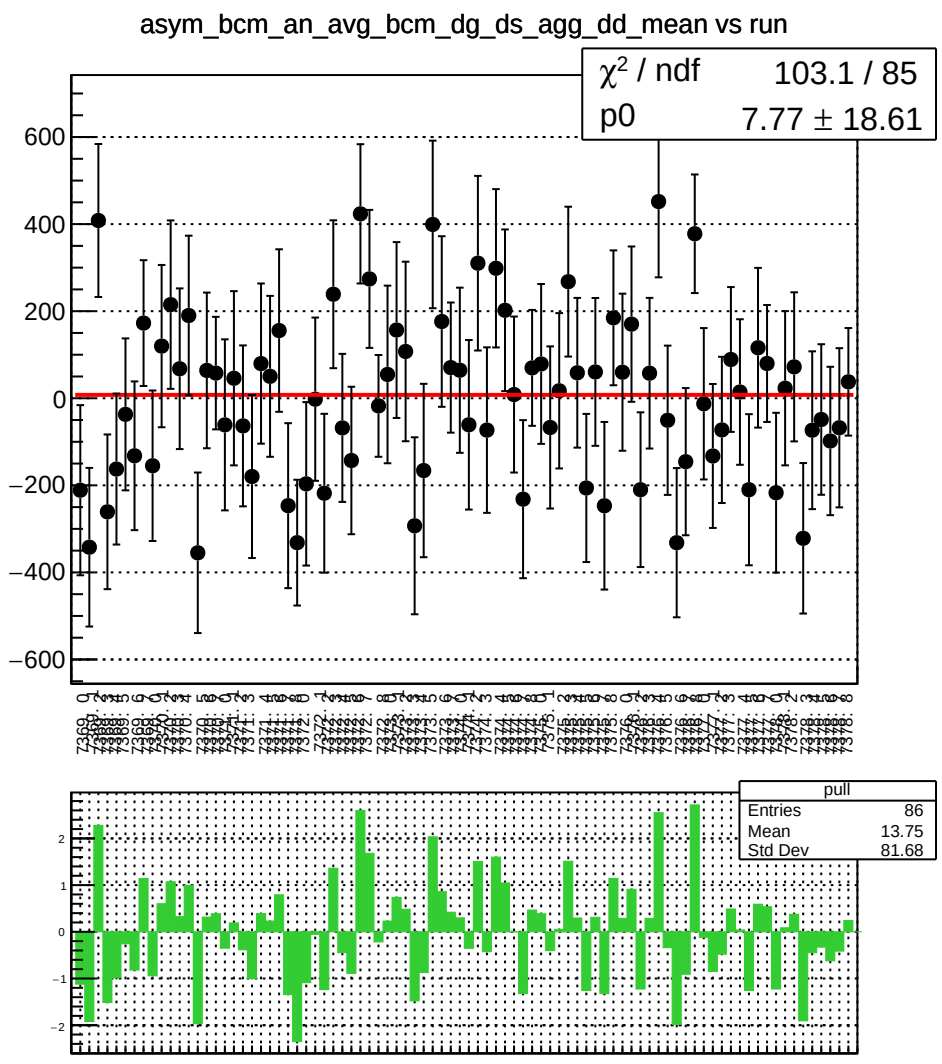

yield_atr2_mean vs run
χ² / ndf 1e+05 / 85
p0 0.02871± 3.11e−07
0.0292
0.029
0.0288
0.0286
0.0284
0.0282
pull
Entries 86
Mean −74.09
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

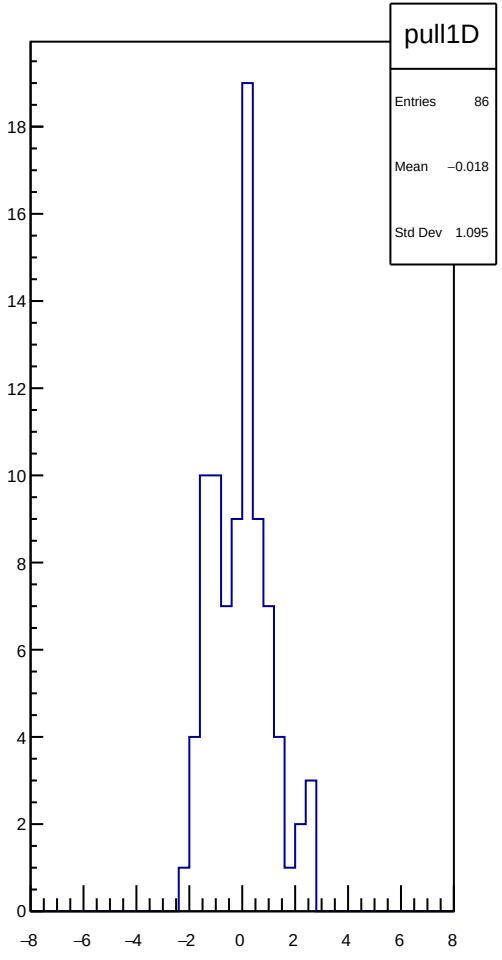

pull1D
Entries 86
Mean −0.717
Std Dev 4.571
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

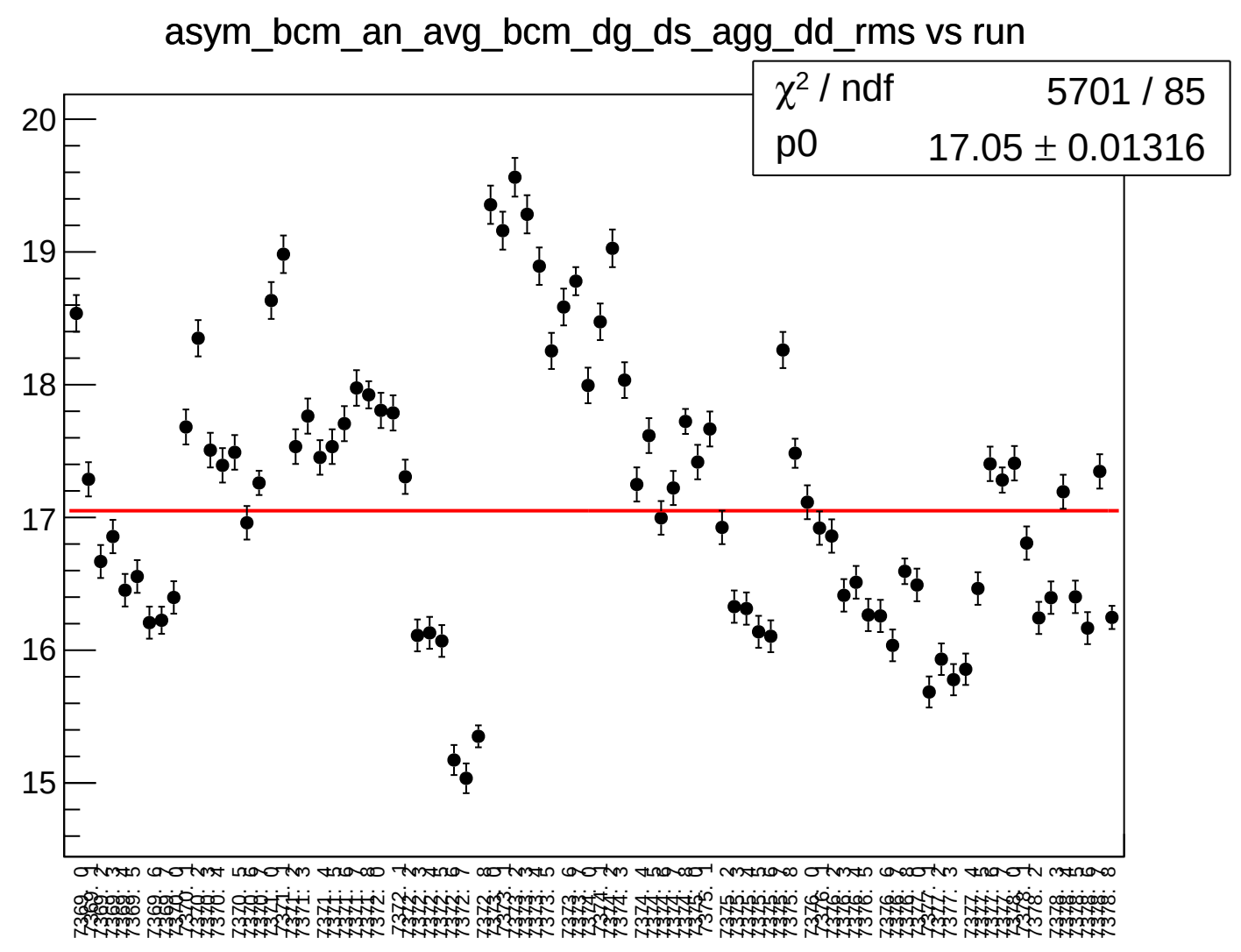

yield_atr2_rms vs run
×10⁻³
χ² / ndf 9.92e+04 / 85
p0 0.0002769 ± 2.199e−07
0.7
0.6
0.5
0.4
0.3
0.2

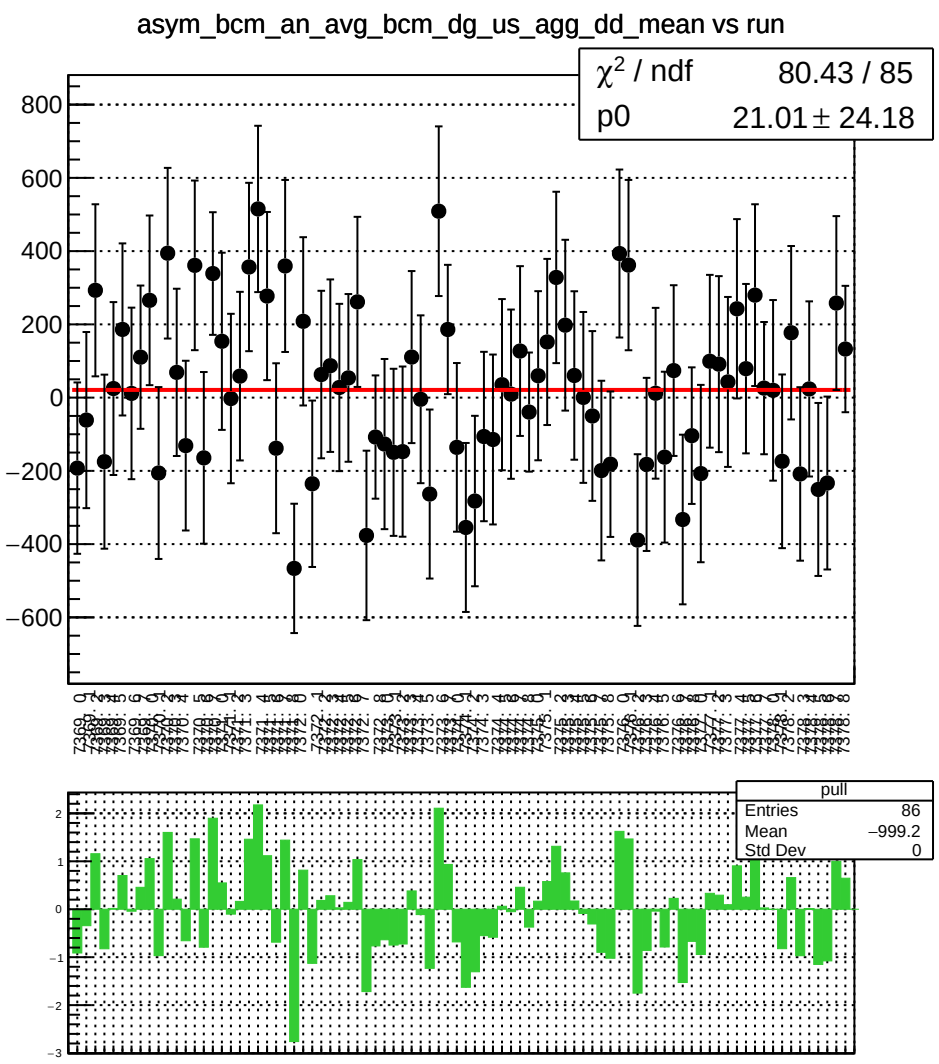

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.41 / 85
p0 20.83 ± 159.8
pull
Entries 86
Mean 62.18
Std Dev 0
pull1D
Entries 86
Mean −0.01014
Std Dev 0.3947

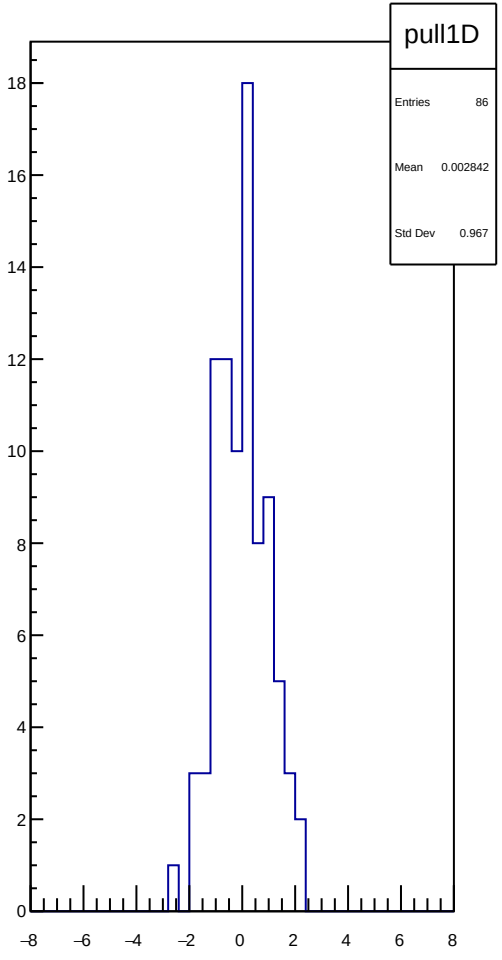

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7056 / 85
p0 146.4 ± 0.113
220
200
180
160
140

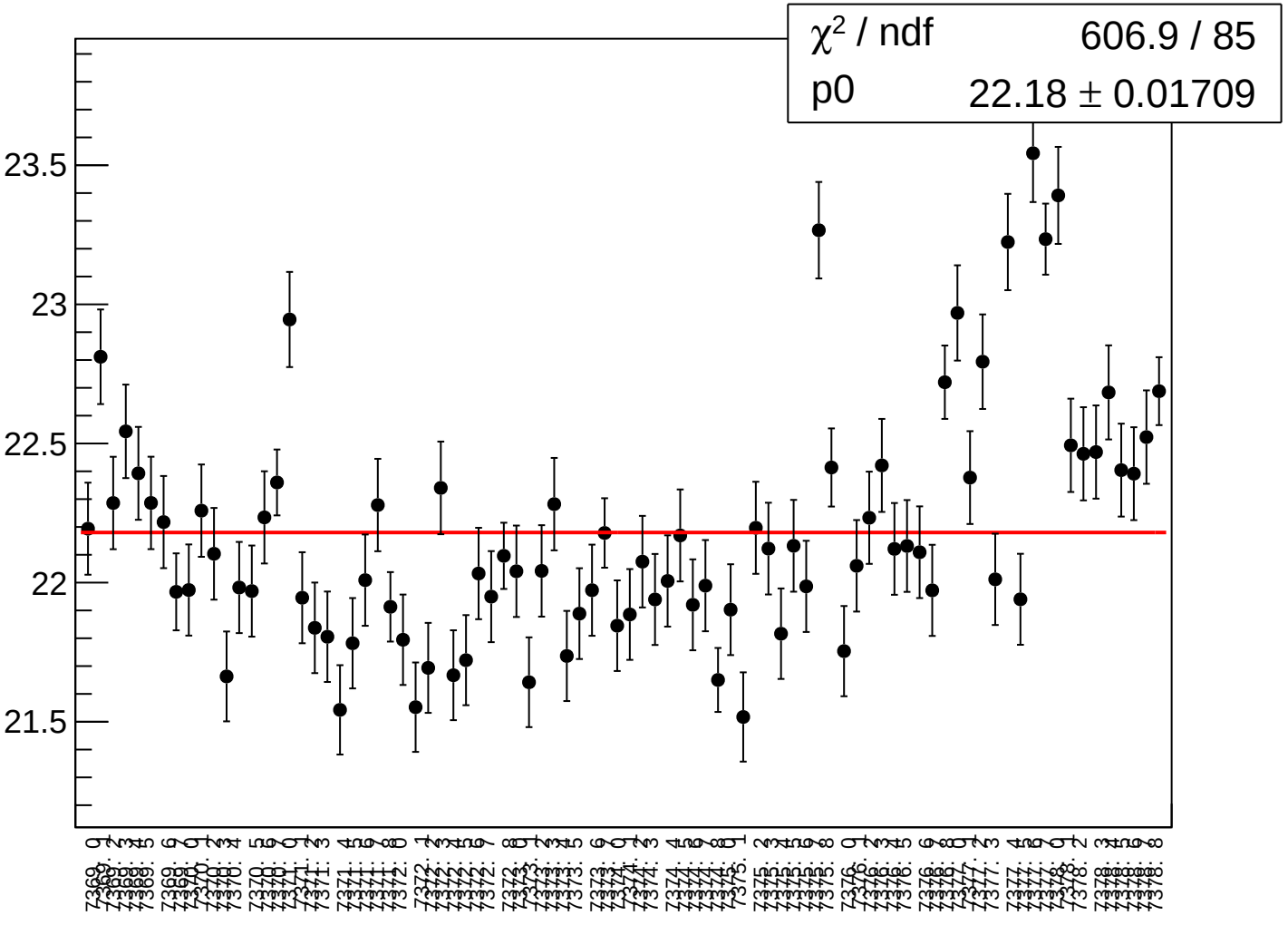

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 103.1 / 85
p0 7.77 ± 18.61
pull
Entries 86
Mean 13.75
Std Dev 81.68

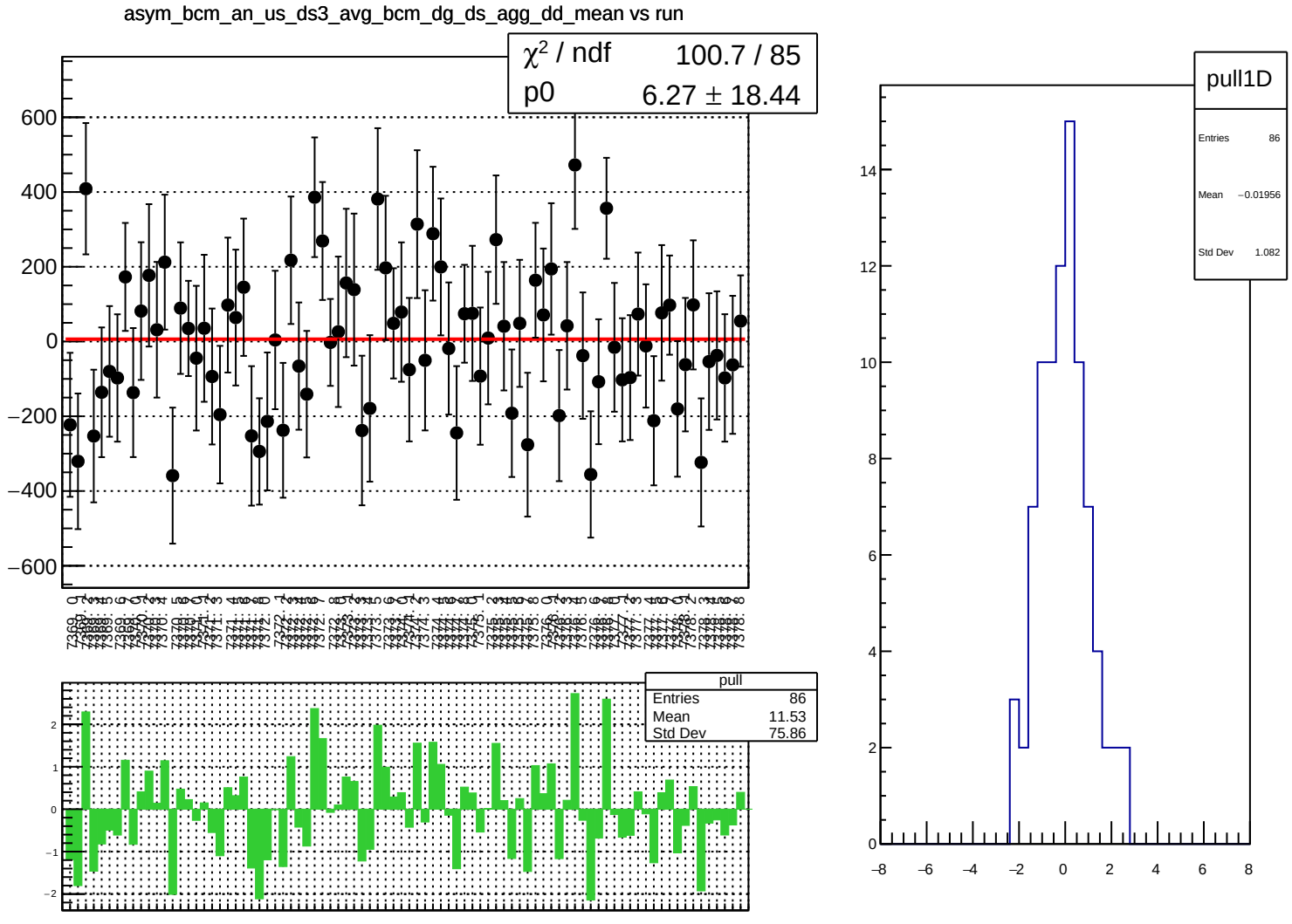

pull1D
Entries 86
Mean −0.018
Std Dev 1.095

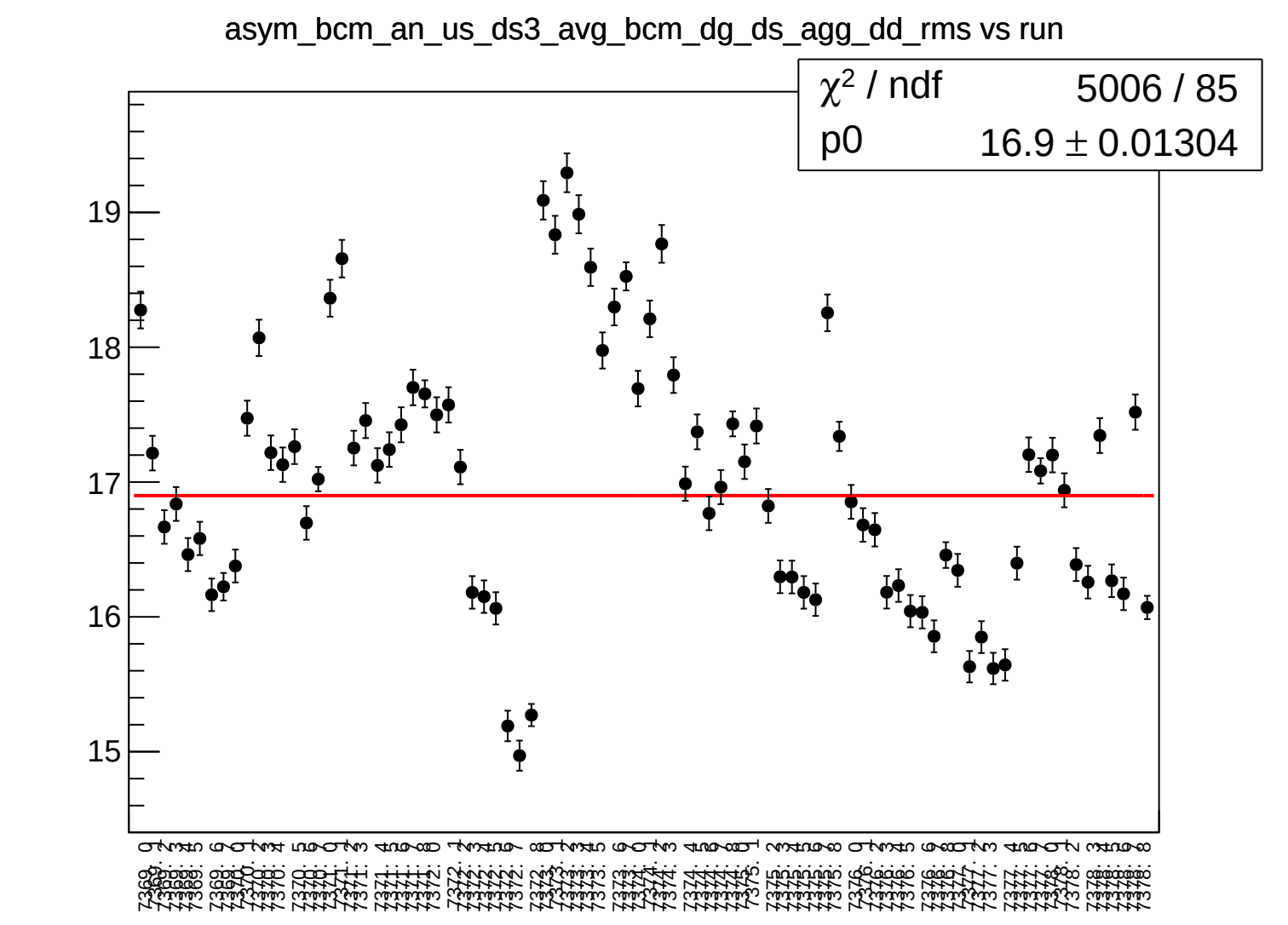

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5701 / 85
p0 17.05 ± 0.01316
20
19
18
17
16
15

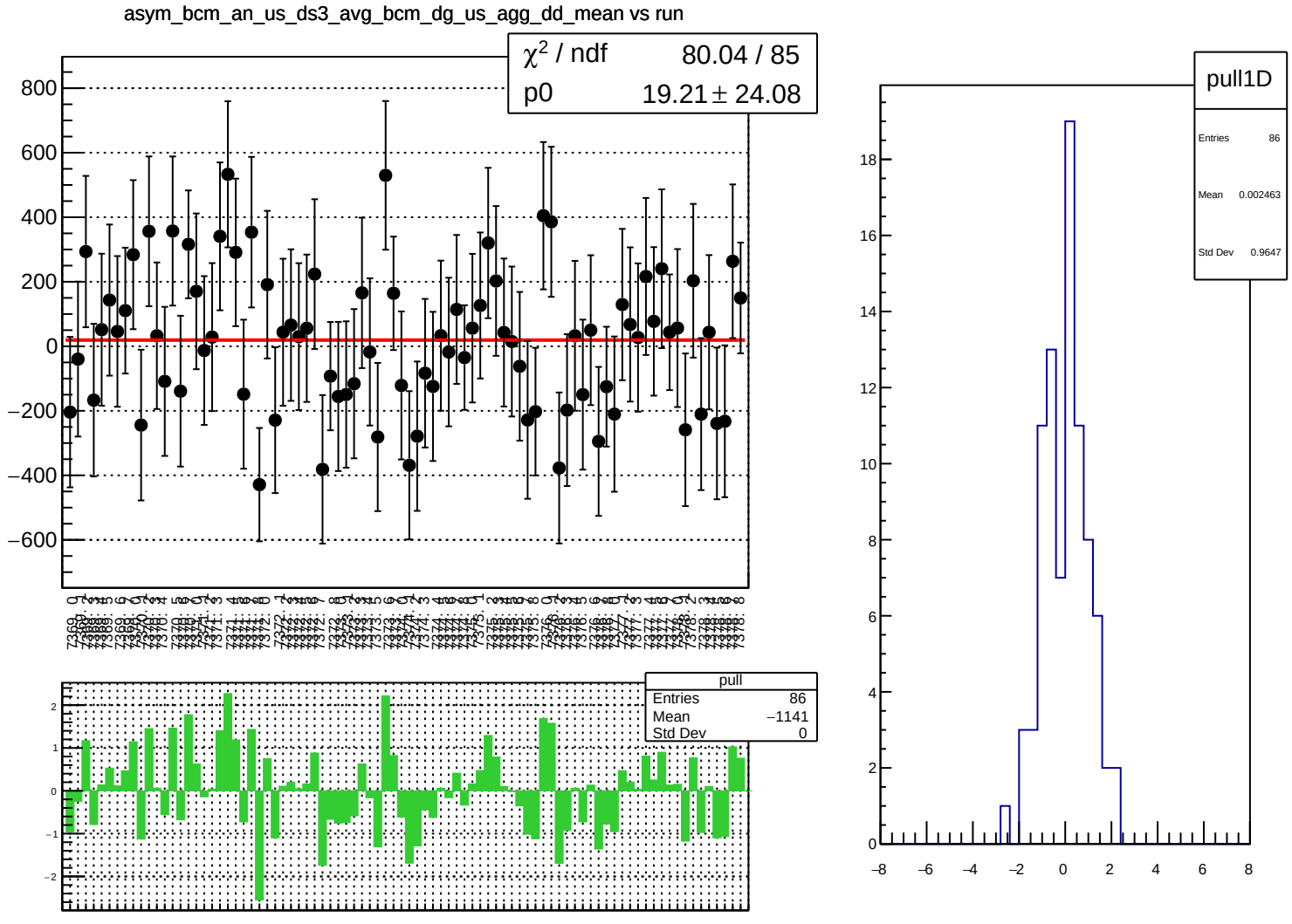

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 80.43 / 85
p0 21.01 ± 24.18
pull
Entries 86
Mean −999.2
Std Dev 0

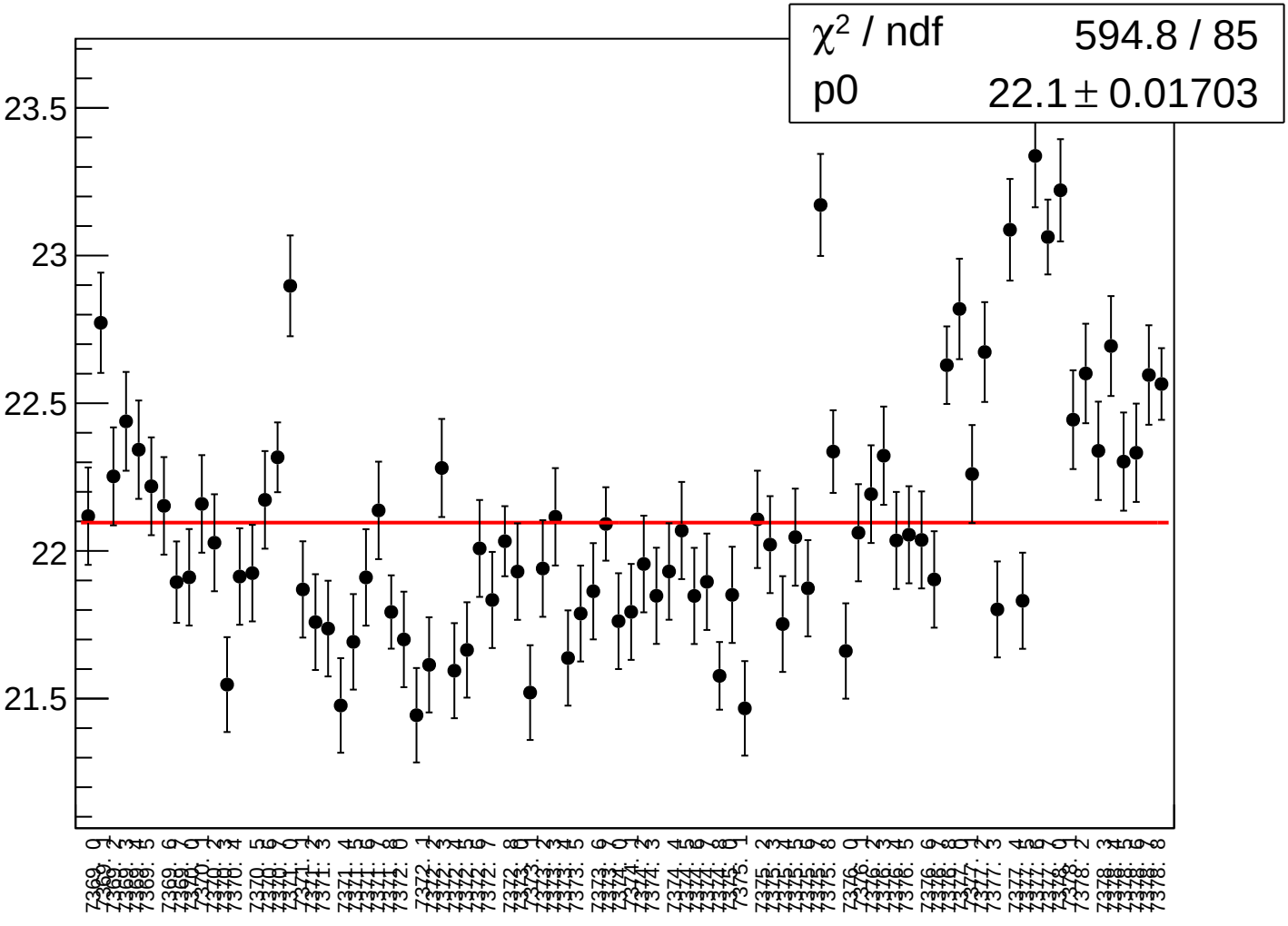

pull1D
Entries 86
Mean 0.002842
Std Dev 0.967

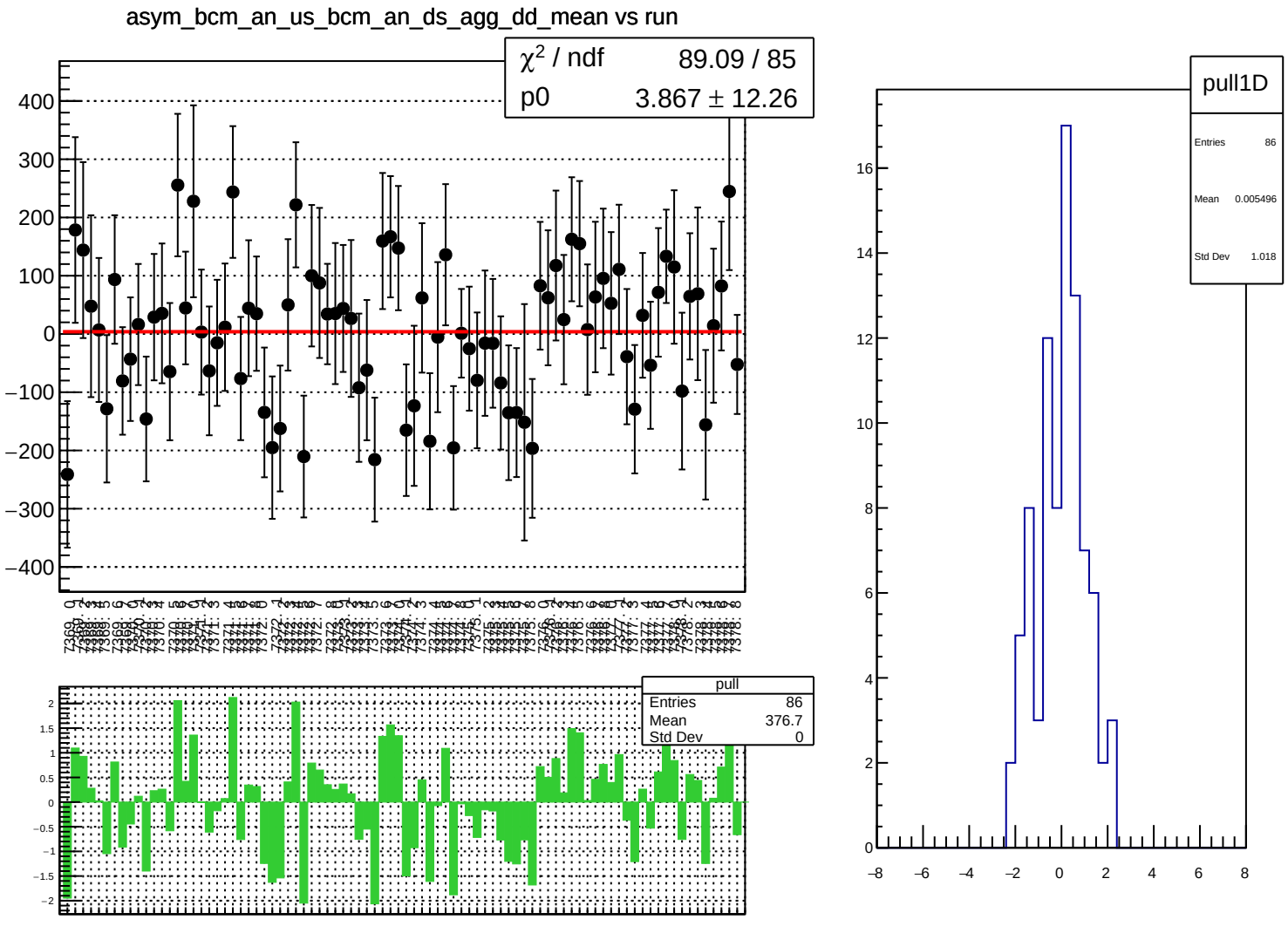

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 606.9 / 85
p0 22.18 ± 0.01709
23.5
23
22.5
22
21.5

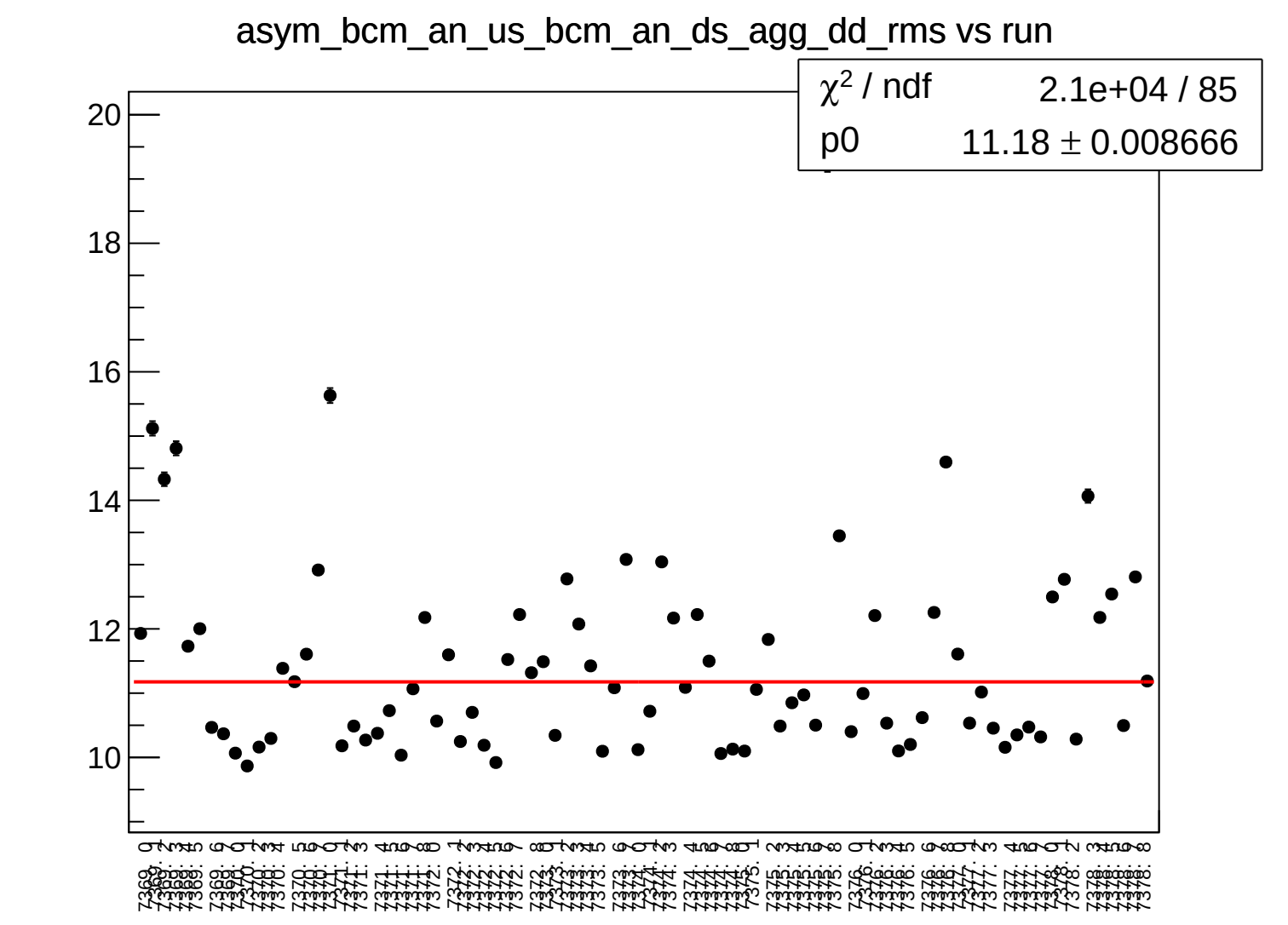

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 100.7 / 85
p0 6.27 ± 18.44
pull
Entries 86
Mean 11.53
Std Dev 75.86
pull1D
Entries 86
Mean −0.01956
Std Dev 1.082

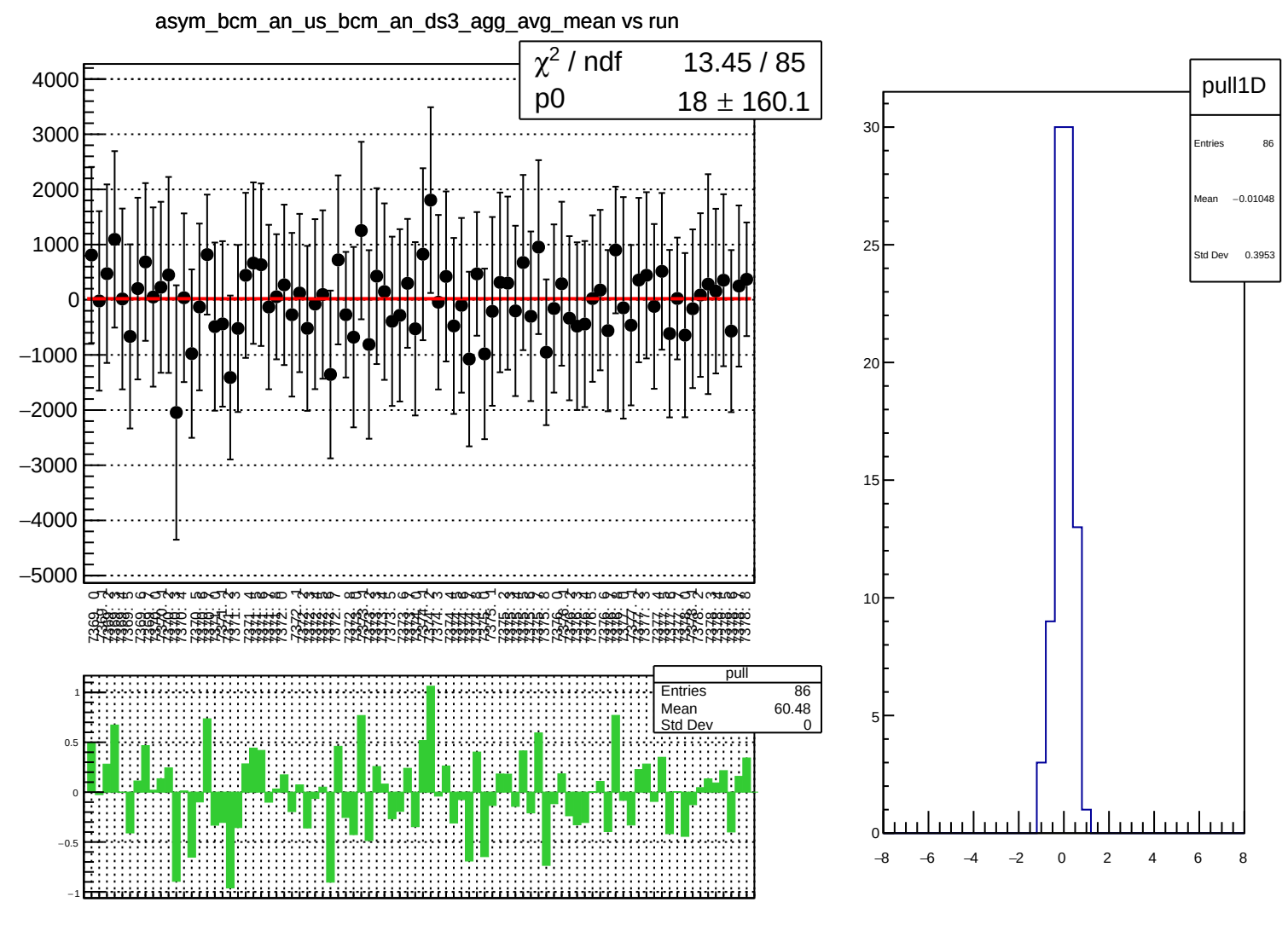

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5006 / 85
p0 16.9 ± 0.01304
19
18
17
16
15

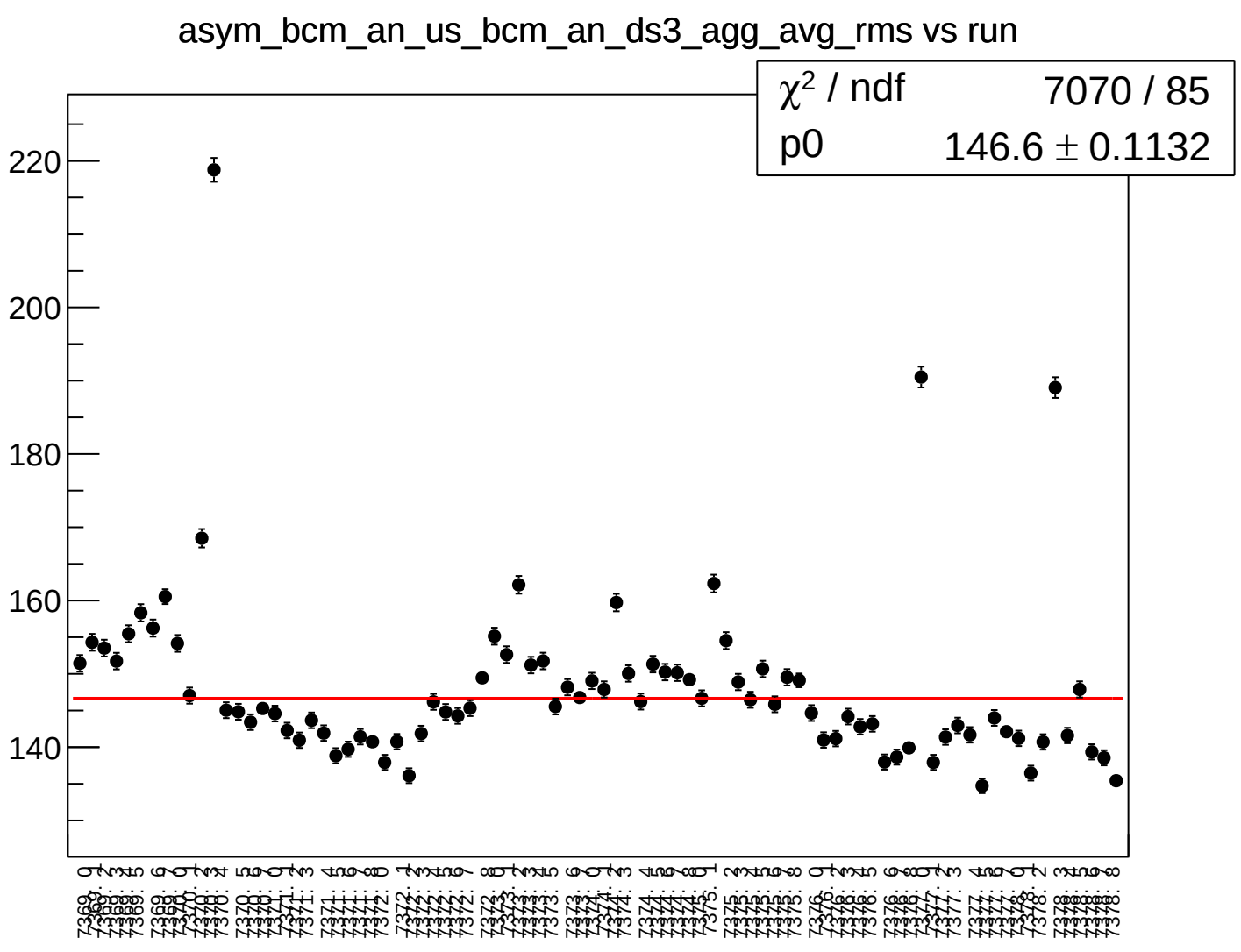

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 80.04 / 85
p0 19.21 ± 24.08
pull
Entries 86
Mean −1141
Std Dev 0
pull1D
Entries 86
Mean 0.002463
Std Dev 0.9647

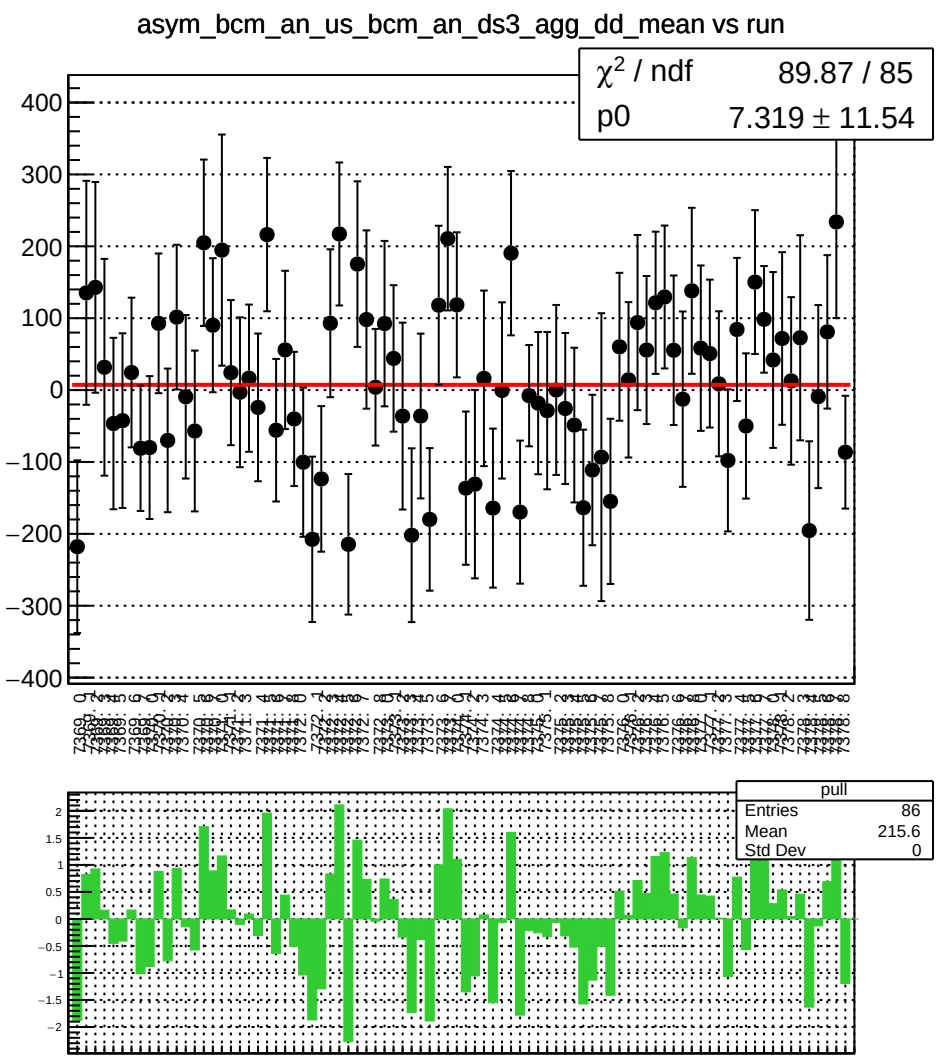

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 594.8 / 85
p0 22.1 ± 0.01703
23.5
23
22.5
22
21.5

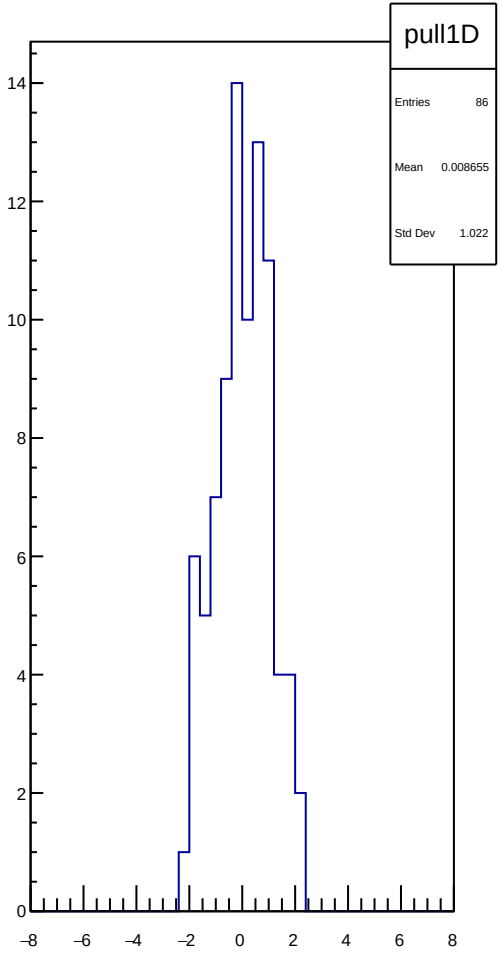

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 89.09 / 85
p0 3.867 ± 12.26
pull
Entries 86
Mean 376.7
Std Dev 0
pull1D
Entries 86
Mean 0.005496
Std Dev 1.018

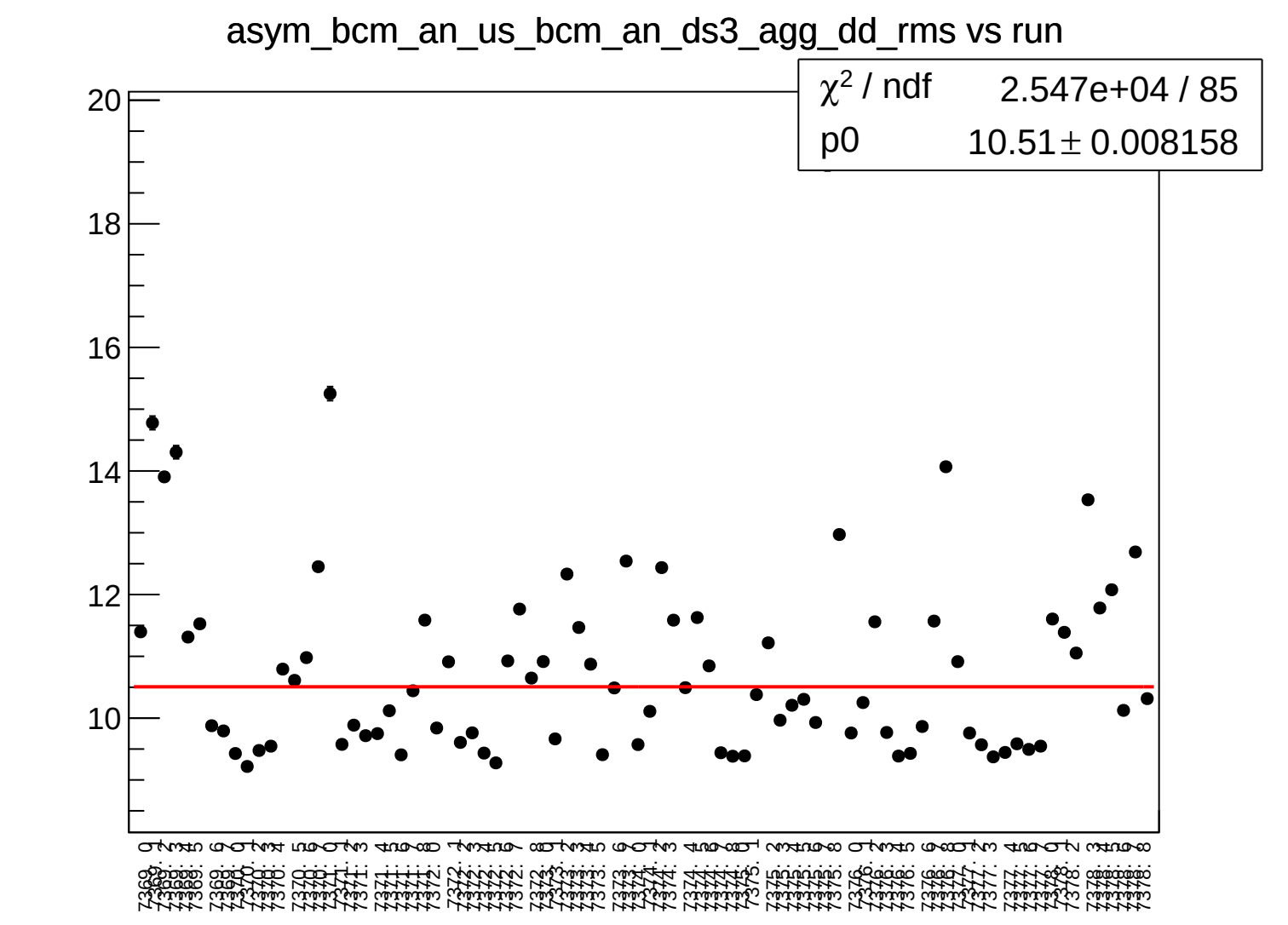

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.1e+04 / 85
p0 11.18 ± 0.008666
20
18
16
14
12
10

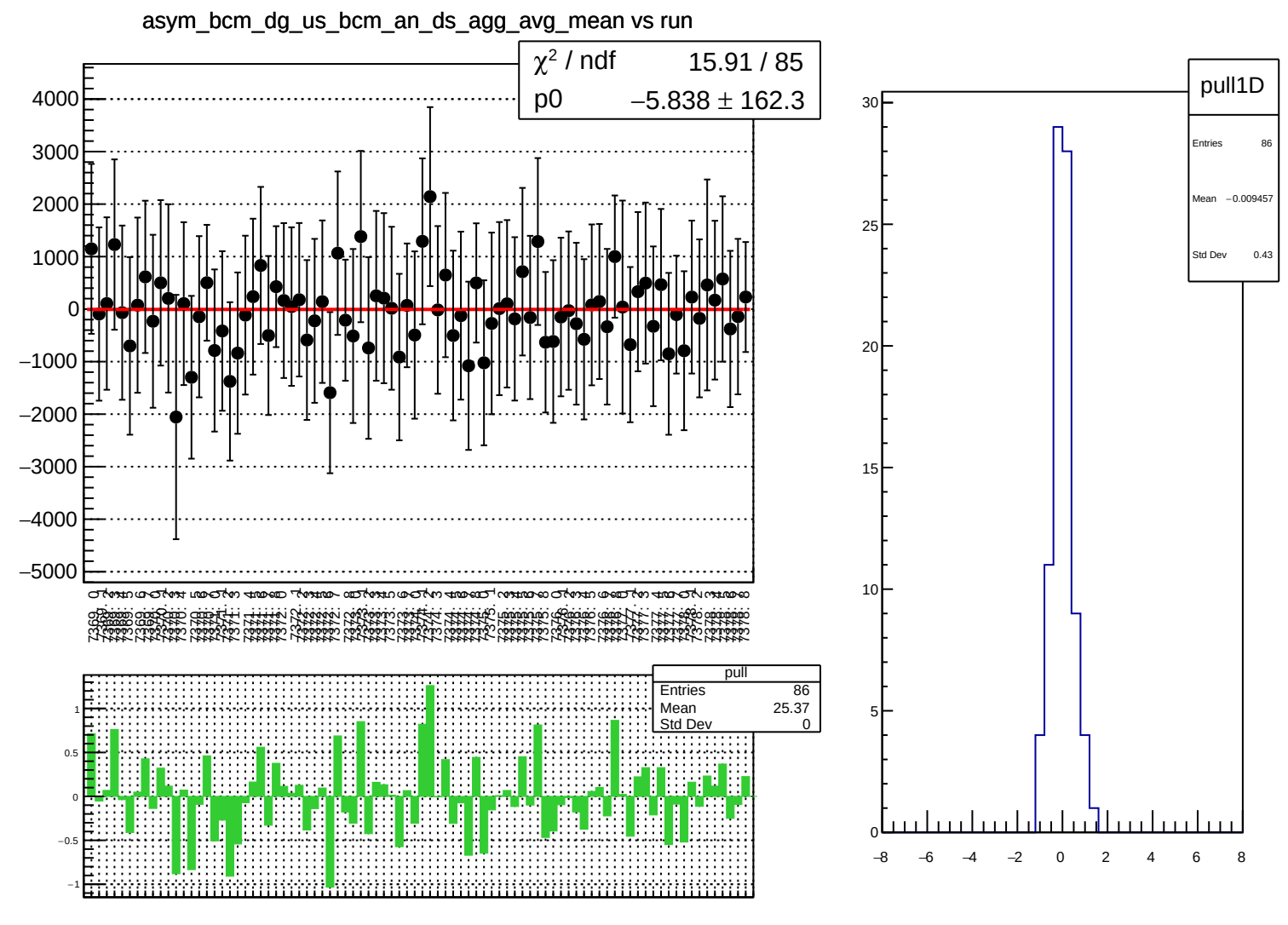

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 13.45 / 85
p0 18 ± 160.1
pull
Entries 86
Mean 60.48
Std Dev 0
pull1D
Entries 86
Mean −0.01048
Std Dev 0.3953

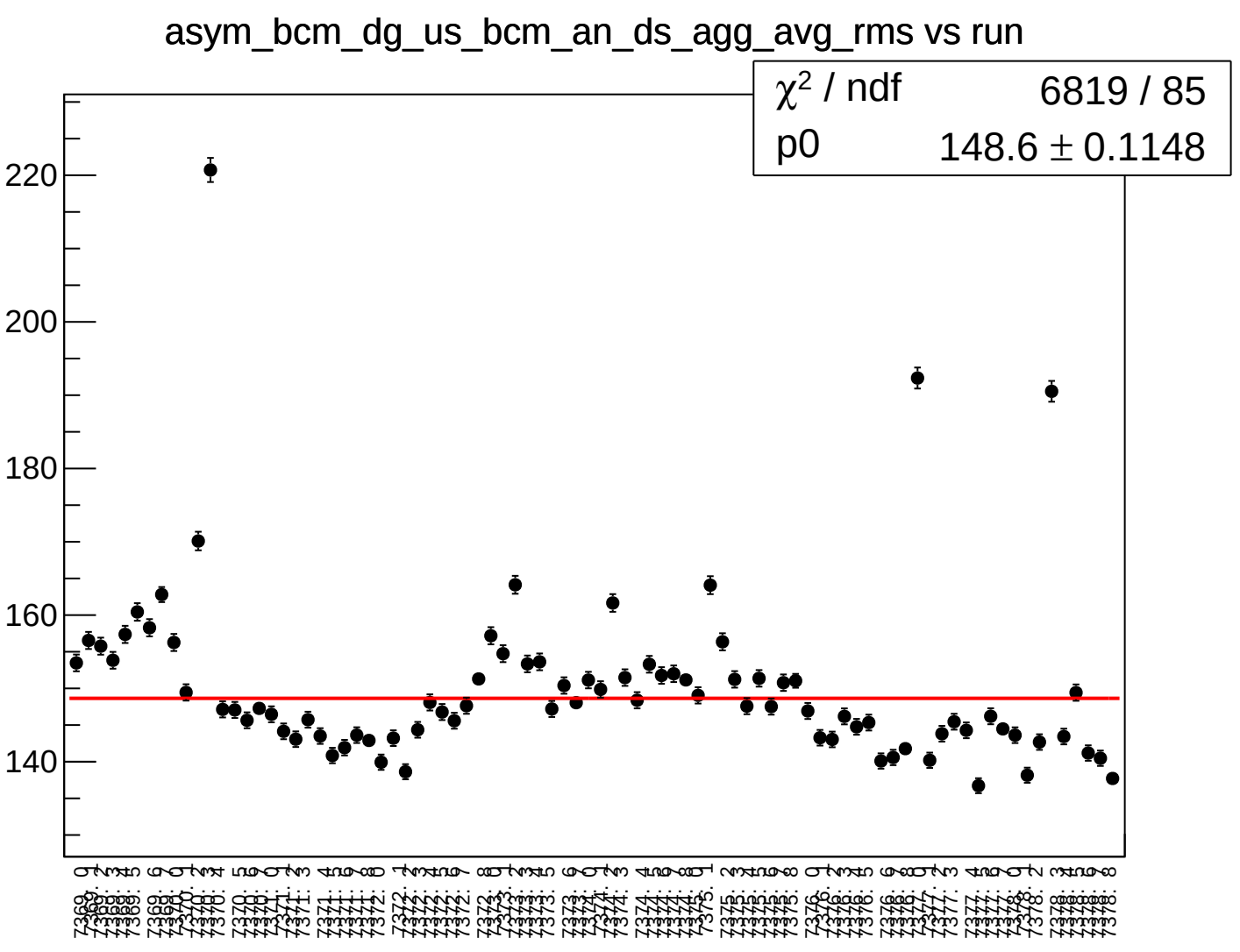

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 7070 / 85
p0 146.6 ± 0.1132
220
200
180
160
140

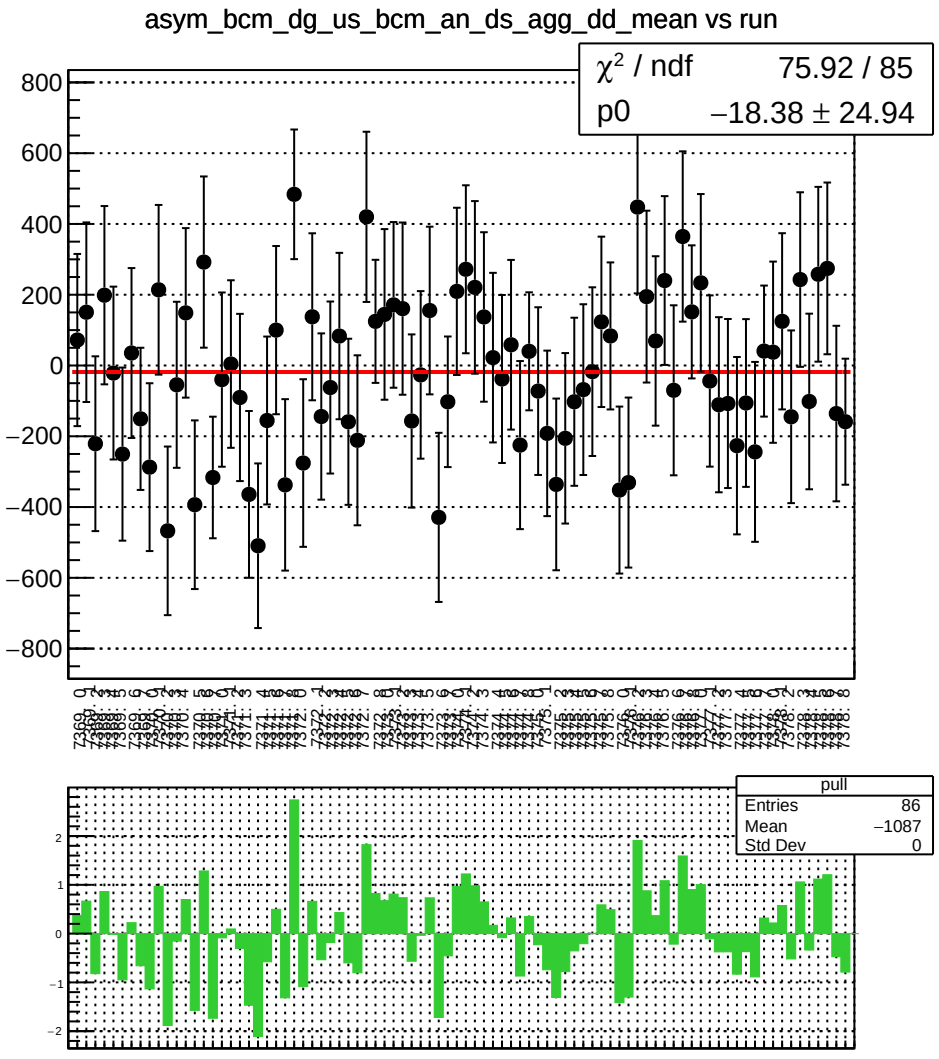

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 89.87 / 85
p0 7.319 ± 11.54
pull
Entries 86
Mean 215.6
Std Dev 0

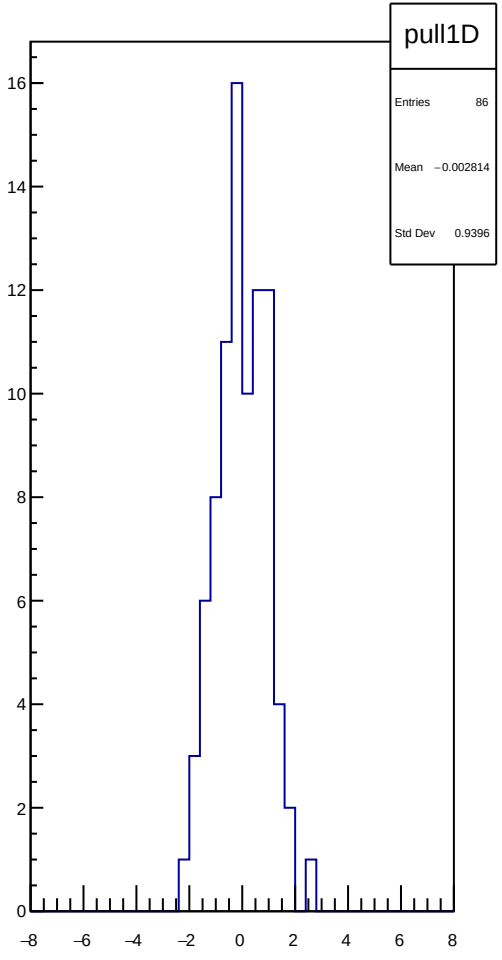

pull1D
Entries 86
Mean 0.008655
Std Dev 1.022

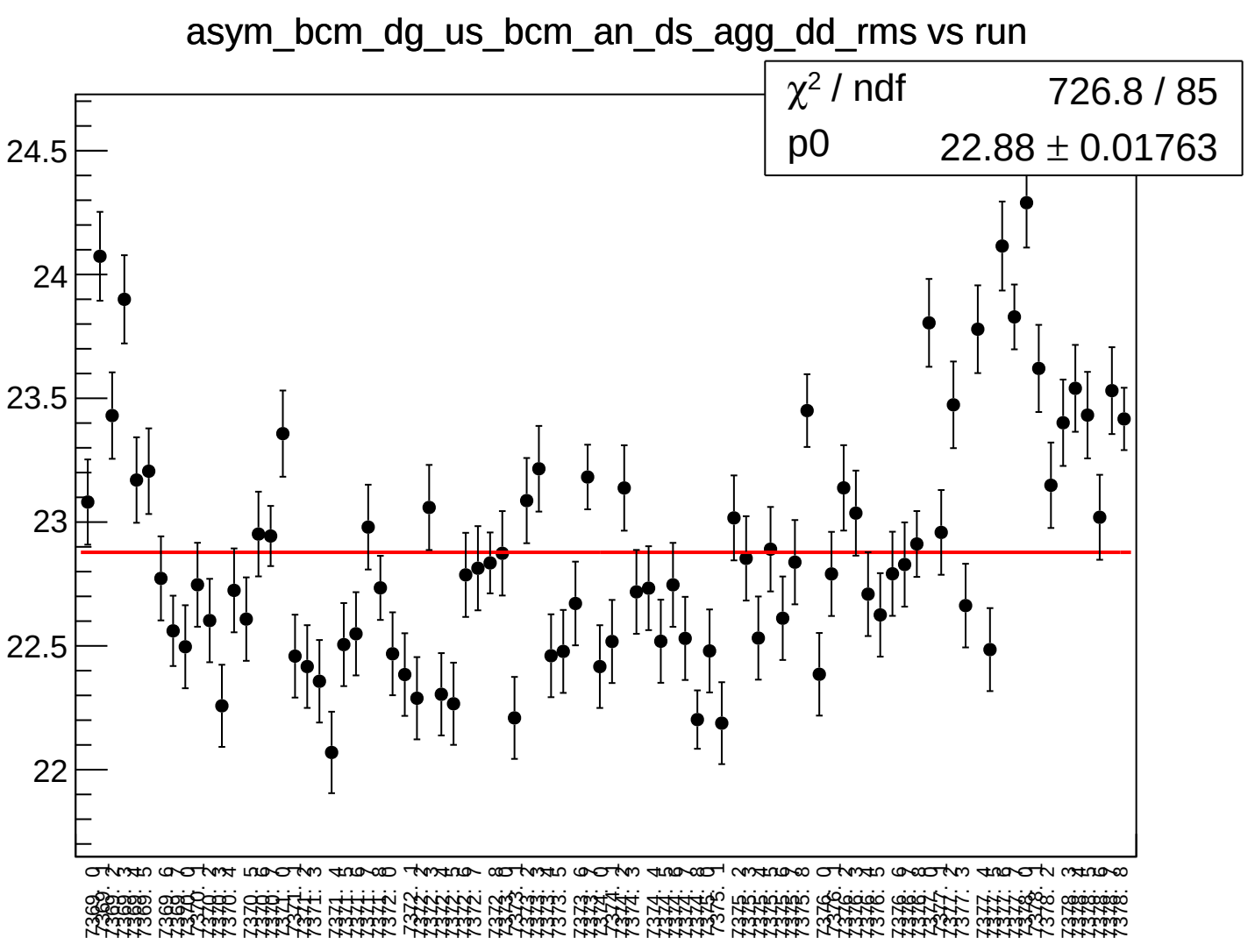

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ^2 / ndf 2.547e+04 / 85
p0 10.51 ± 0.008158
20
18
16
14
12
10

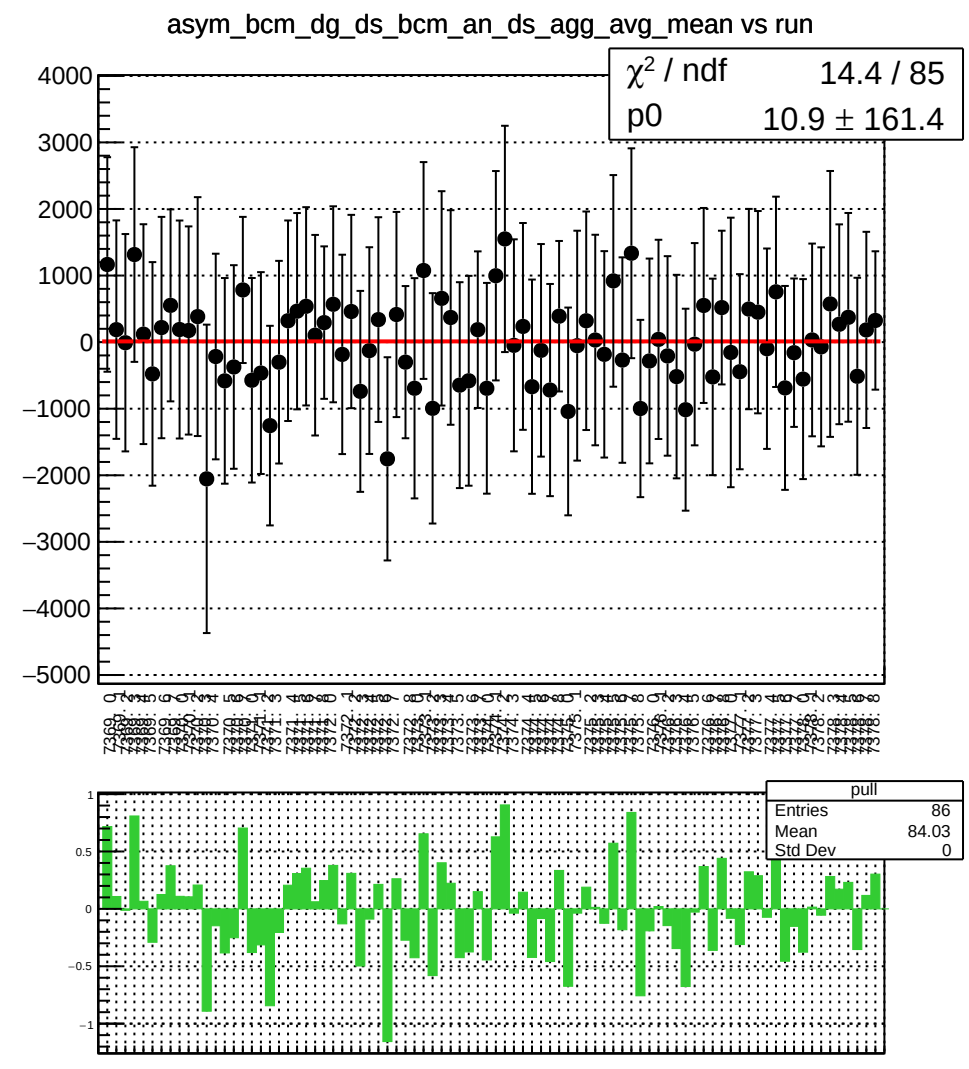

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.91 / 85
p0 −5.838 ± 162.3
pull
Entries 86
Mean 25.37
Std Dev 0
pull1D
Entries 86
Mean −0.009457
Std Dev 0.43

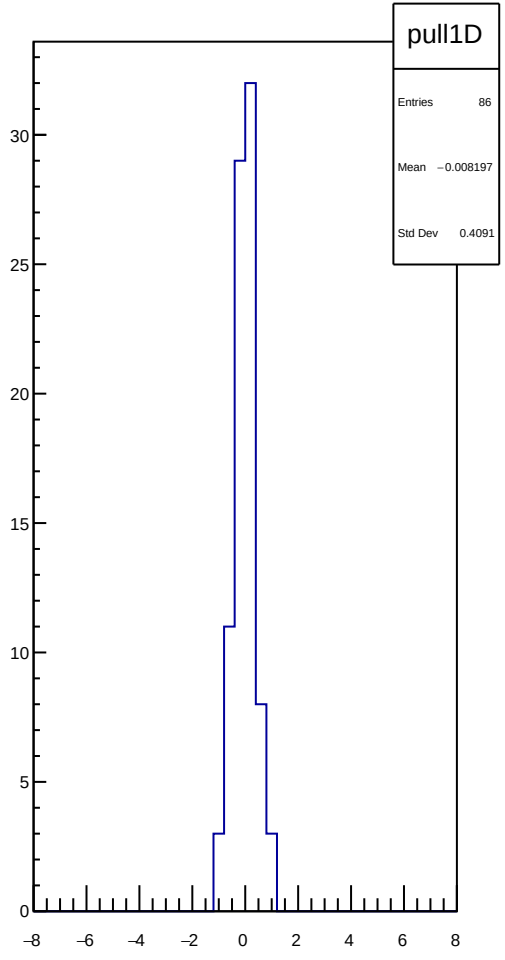

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6819 / 85
p0 148.6 ± 0.1148
220
200
180
160
140

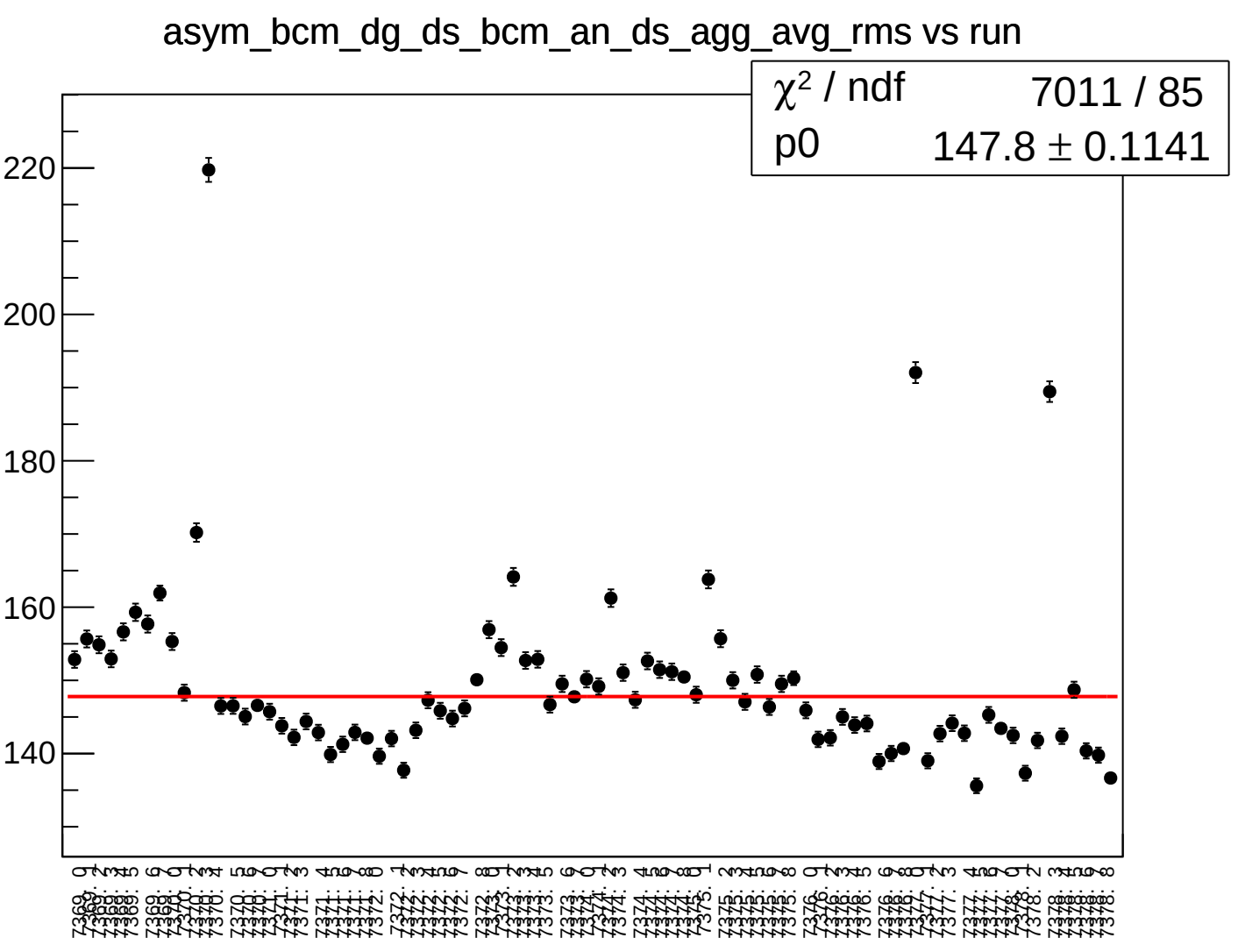

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 75.92 / 85
p0 −18.38 ± 24.94
pull
Entries 86
Mean −1087
Std Dev 0

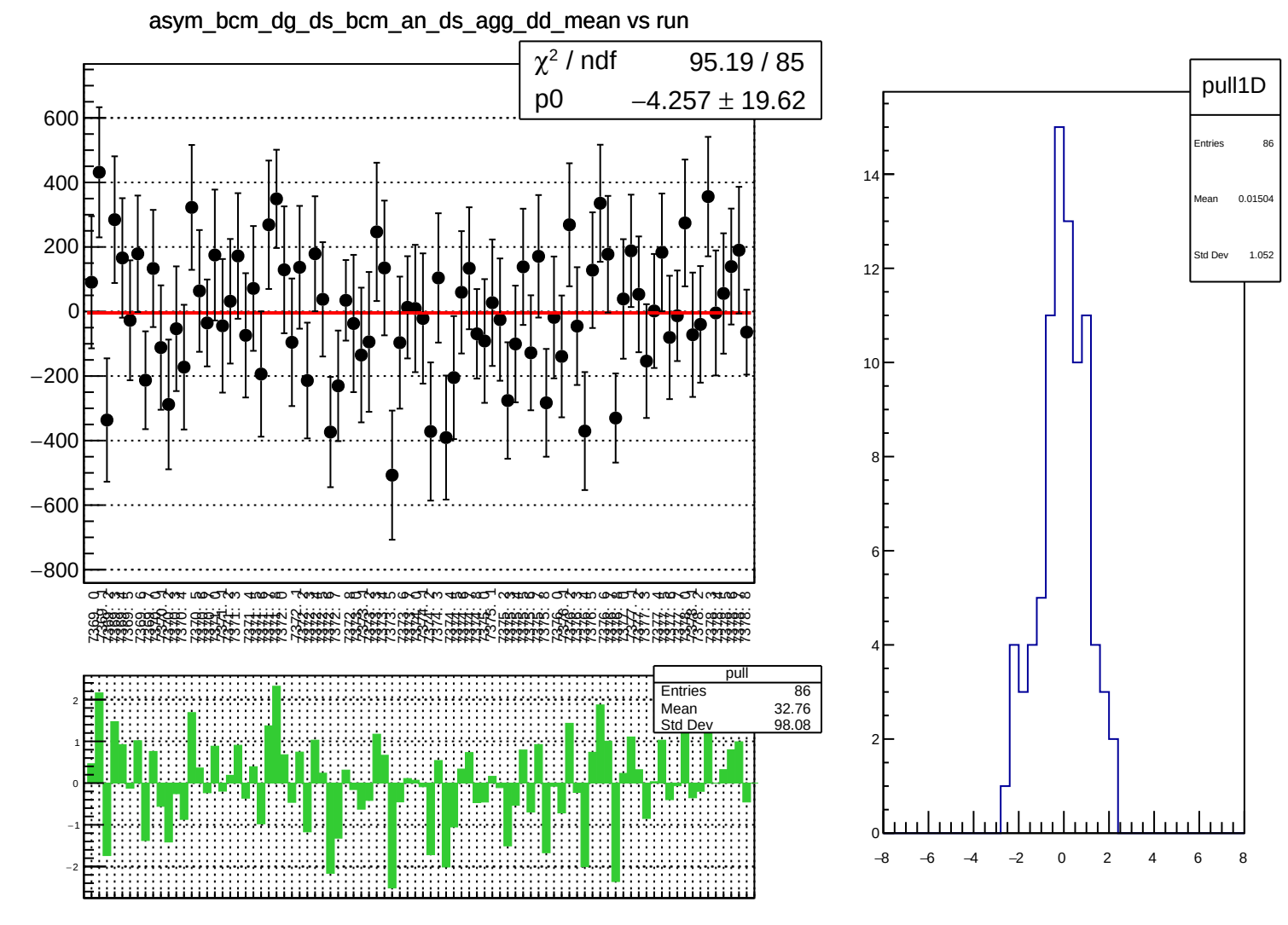

pull1D
Entries 86
Mean −0.002814
Std Dev 0.9396

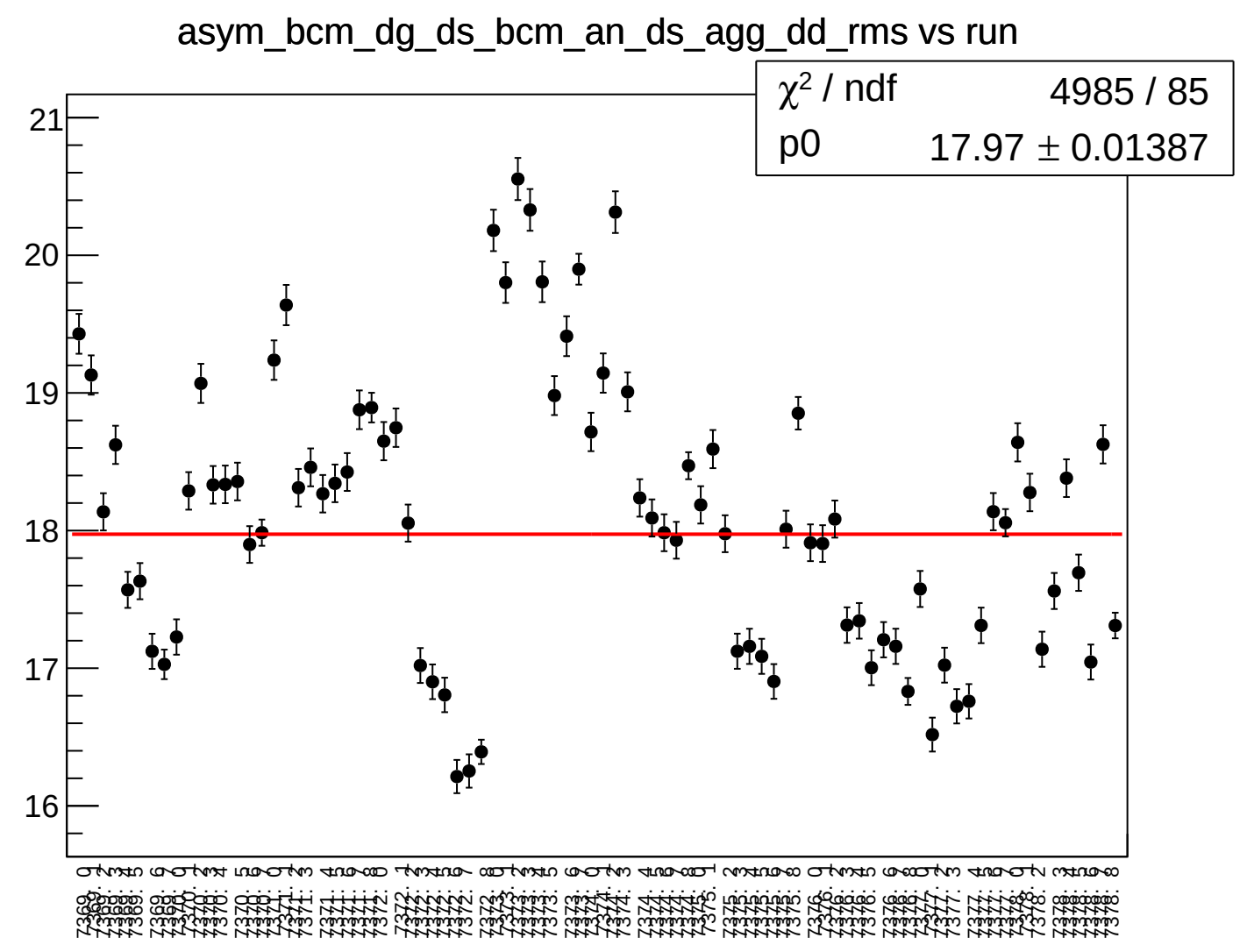

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 726.8 / 85
p0 22.88 ± 0.01763
24.5
24
23.5
23
22.5
22

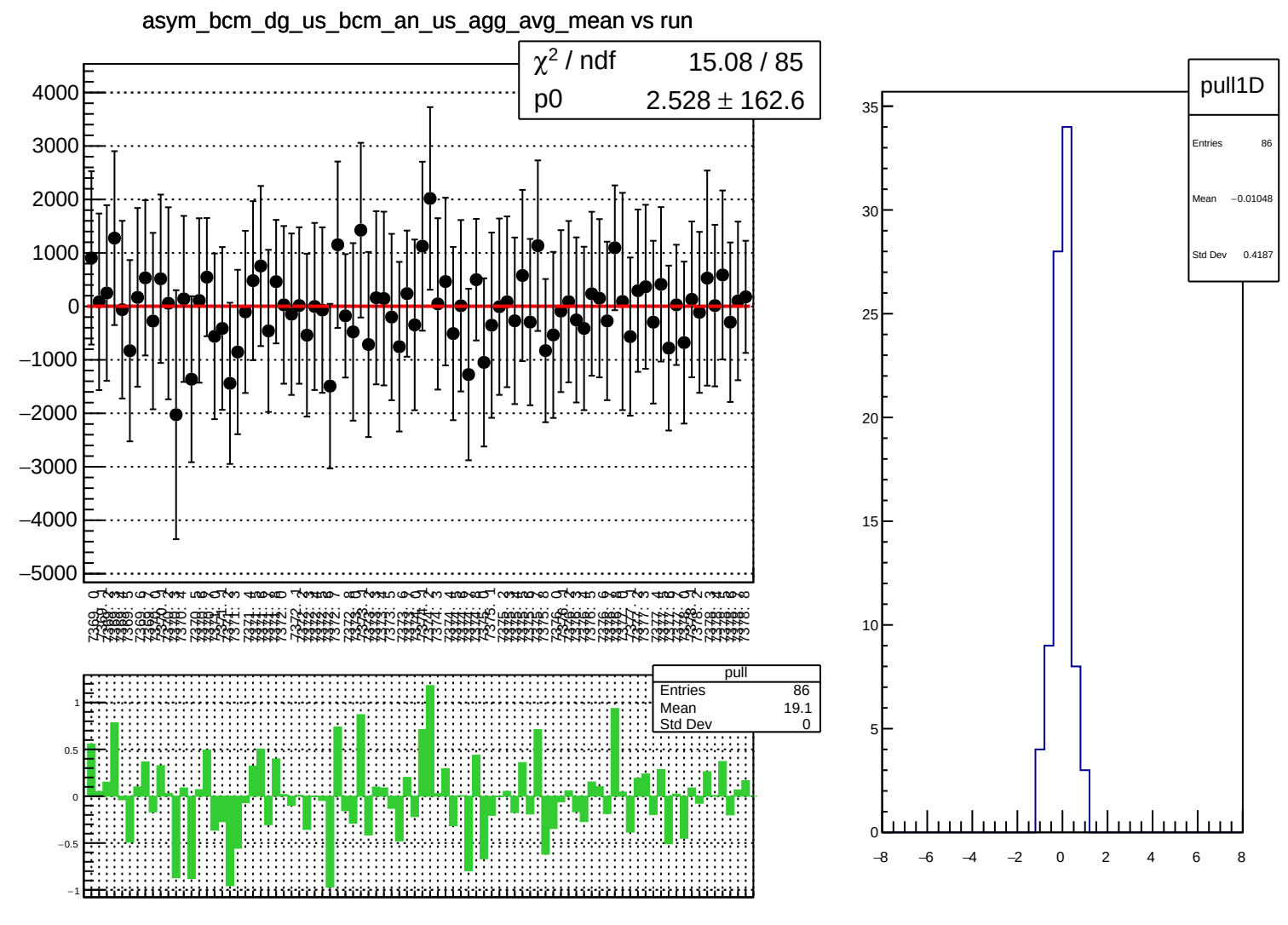

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.4 / 85
p0 10.9 ± 161.4
pull
Entries 86
Mean 84.03
Std Dev 0

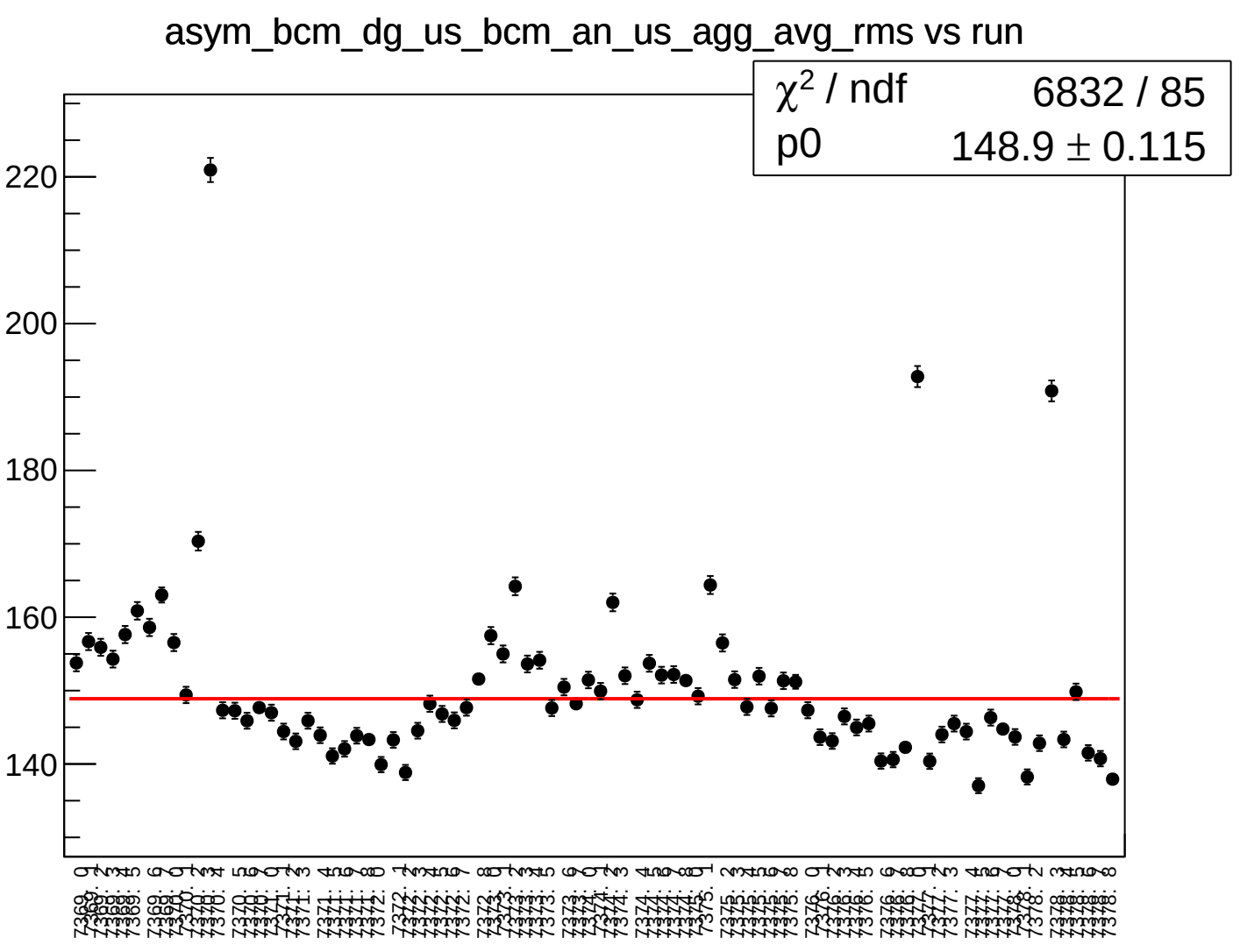

pull1D
Entries 86
Mean −0.008197
Std Dev 0.4091

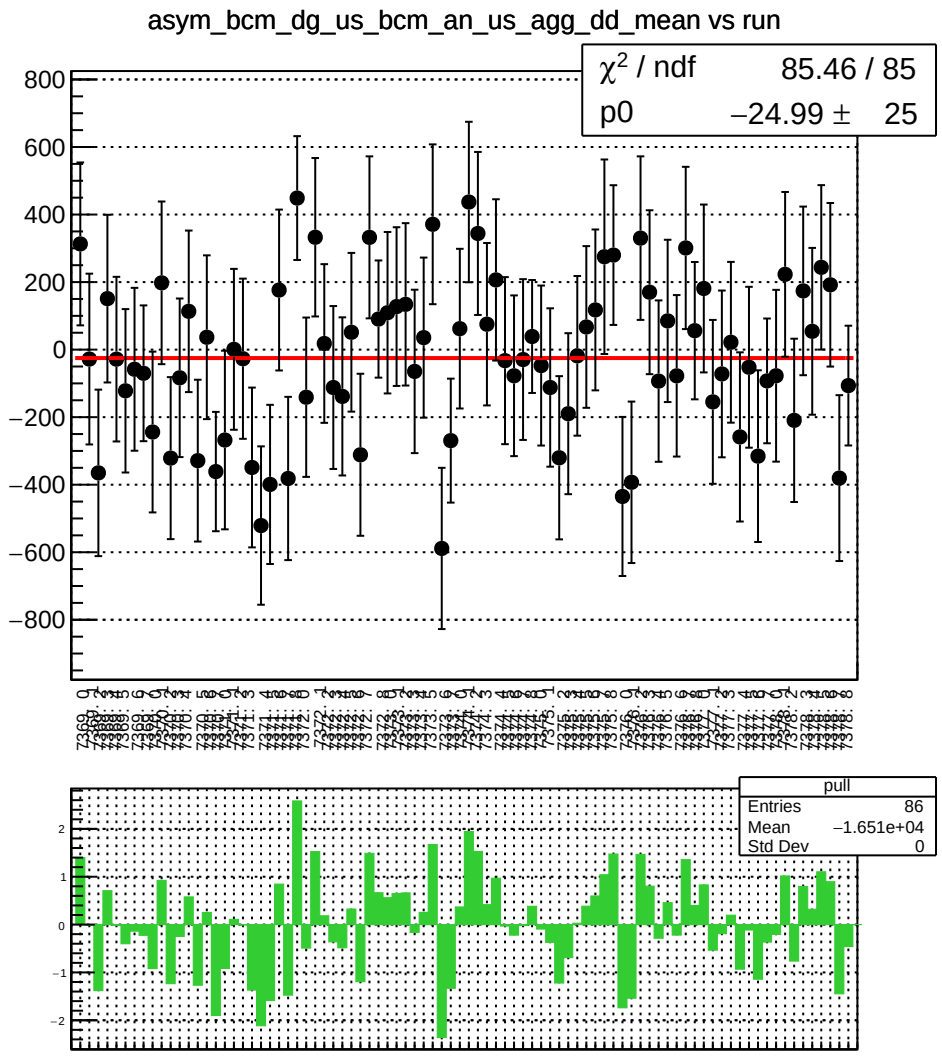

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7011 / 85
p0 147.8 ± 0.1141
220
200
180
160
140

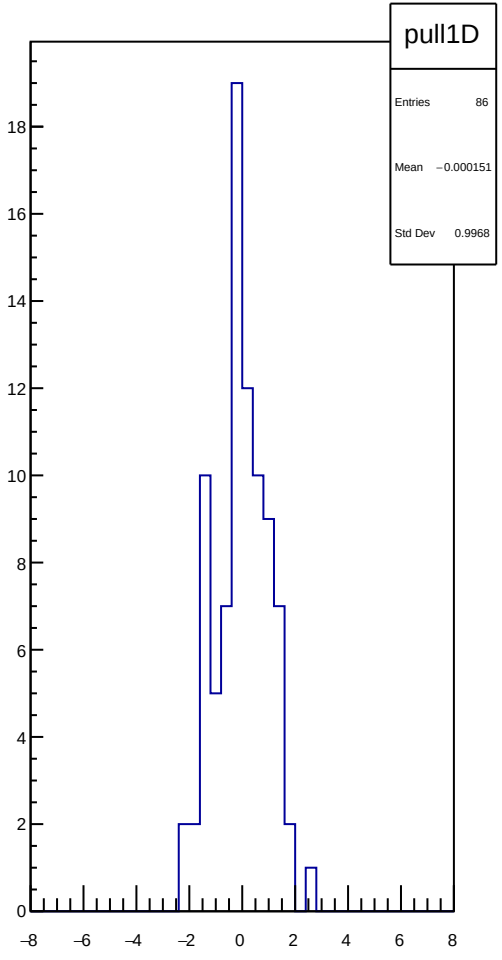

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 95.19 / 85
p0 −4.257 ± 19.62
pull
Entries 86
Mean 32.76
Std Dev 98.08
pull1D
Entries 86
Mean 0.01504
Std Dev 1.052

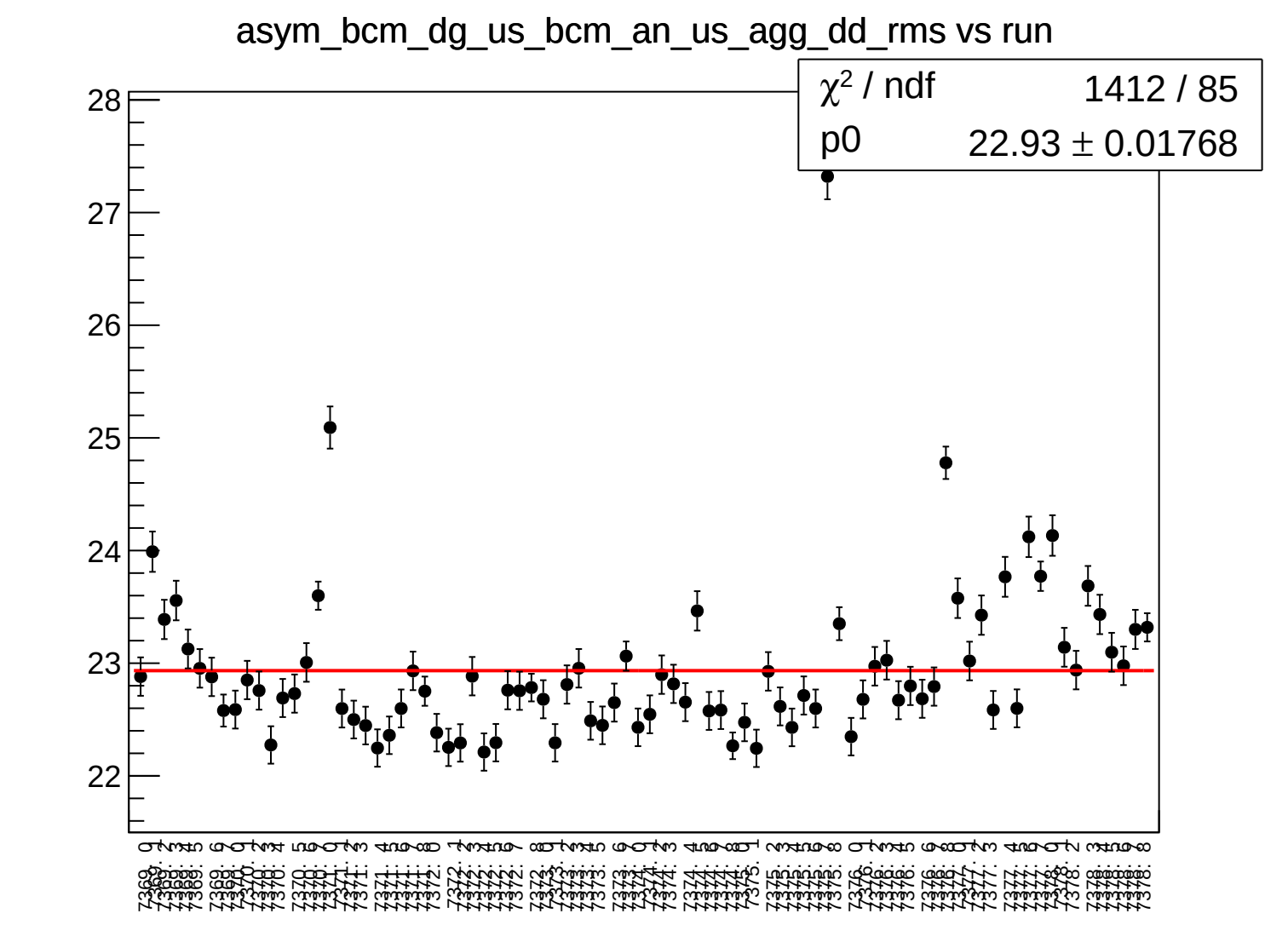

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4985 / 85
p0 17.97 ± 0.01387
21
20
19
18
17
16

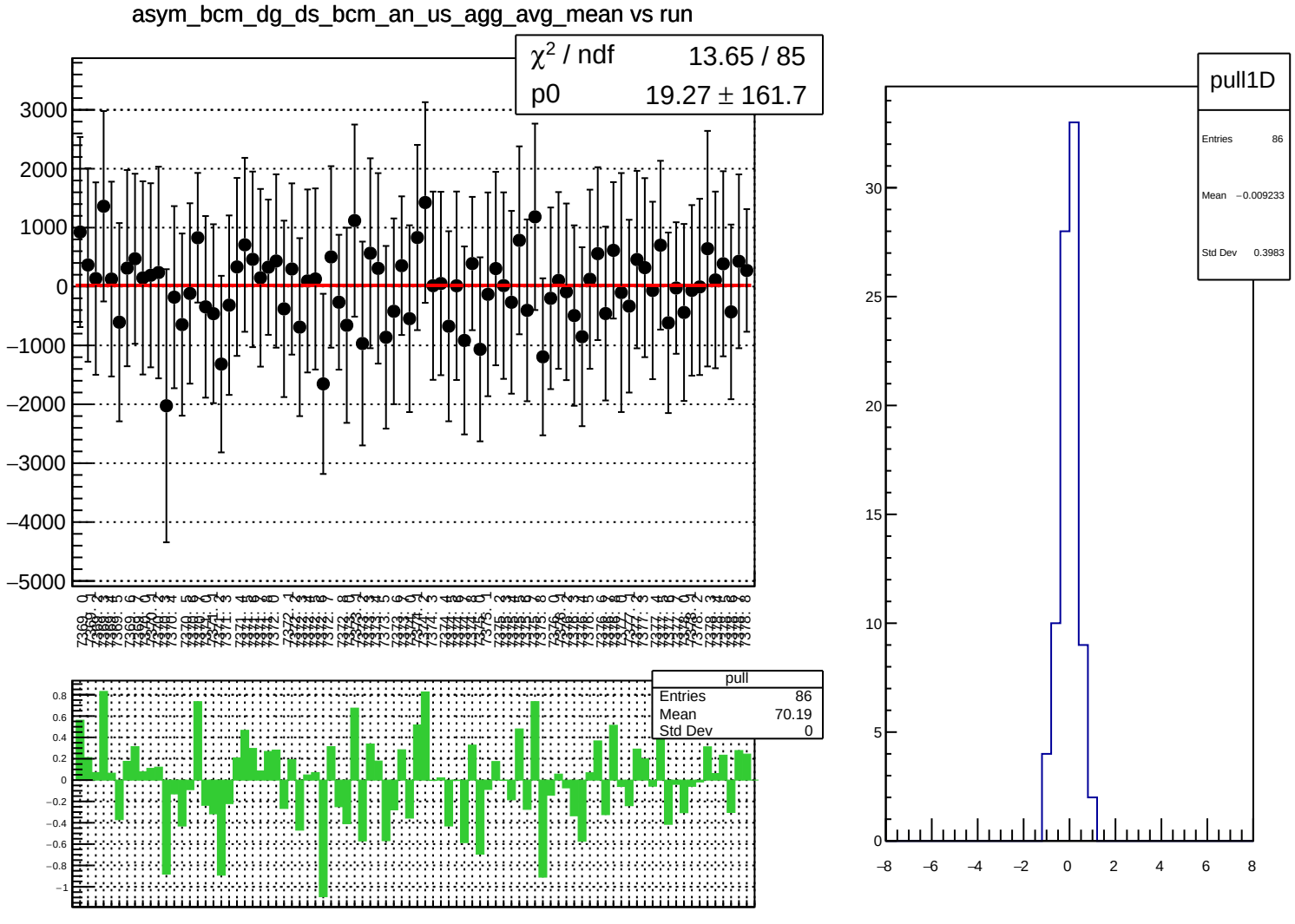

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.08 / 85
p0 2.528 ± 162.6
pull
Entries 86
Mean 19.1
Std Dev 0
pull1D
Entries 86
Mean −0.01048
Std Dev 0.4187

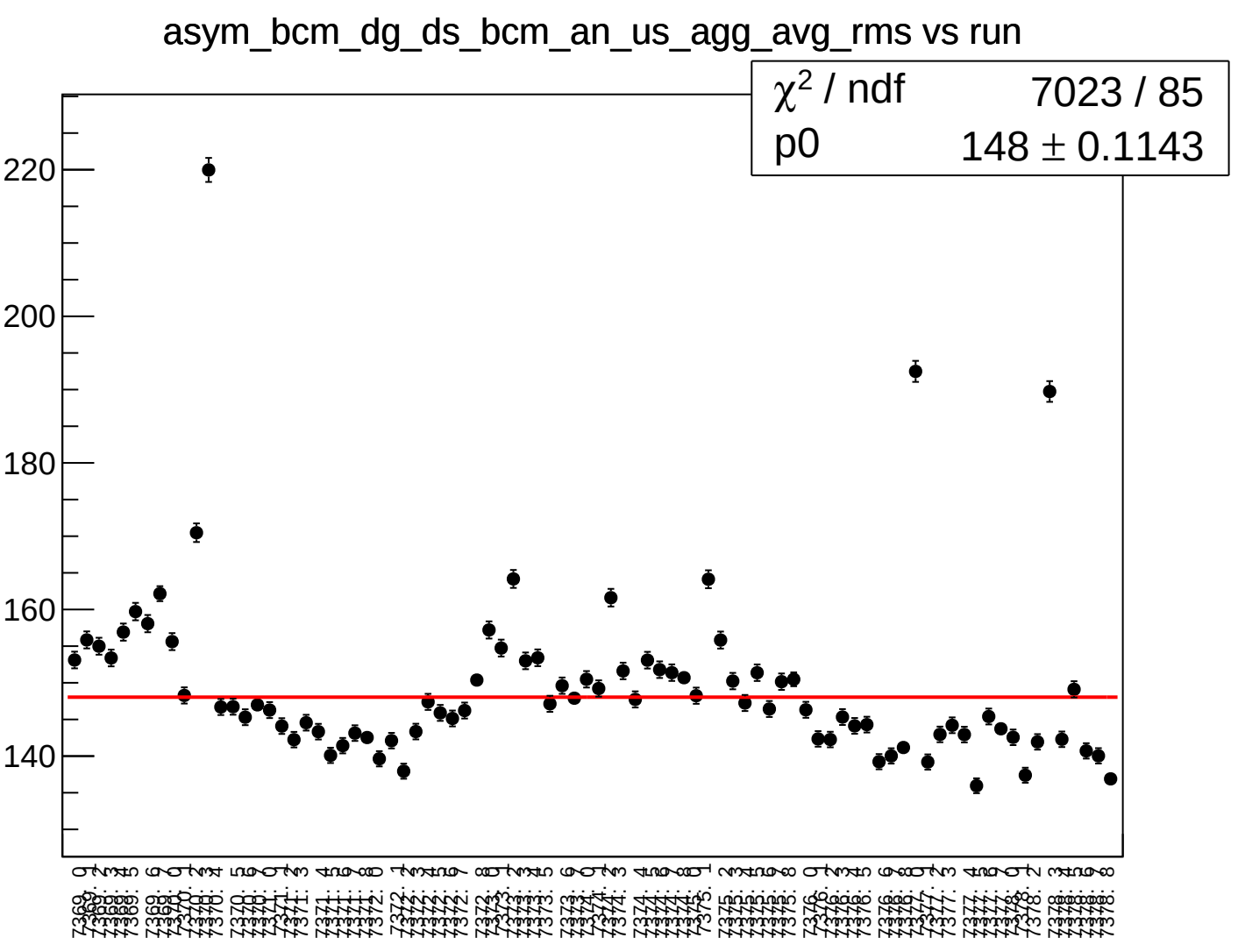

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6832 / 85
p0 148.9 ± 0.115
220
200
180
160
140

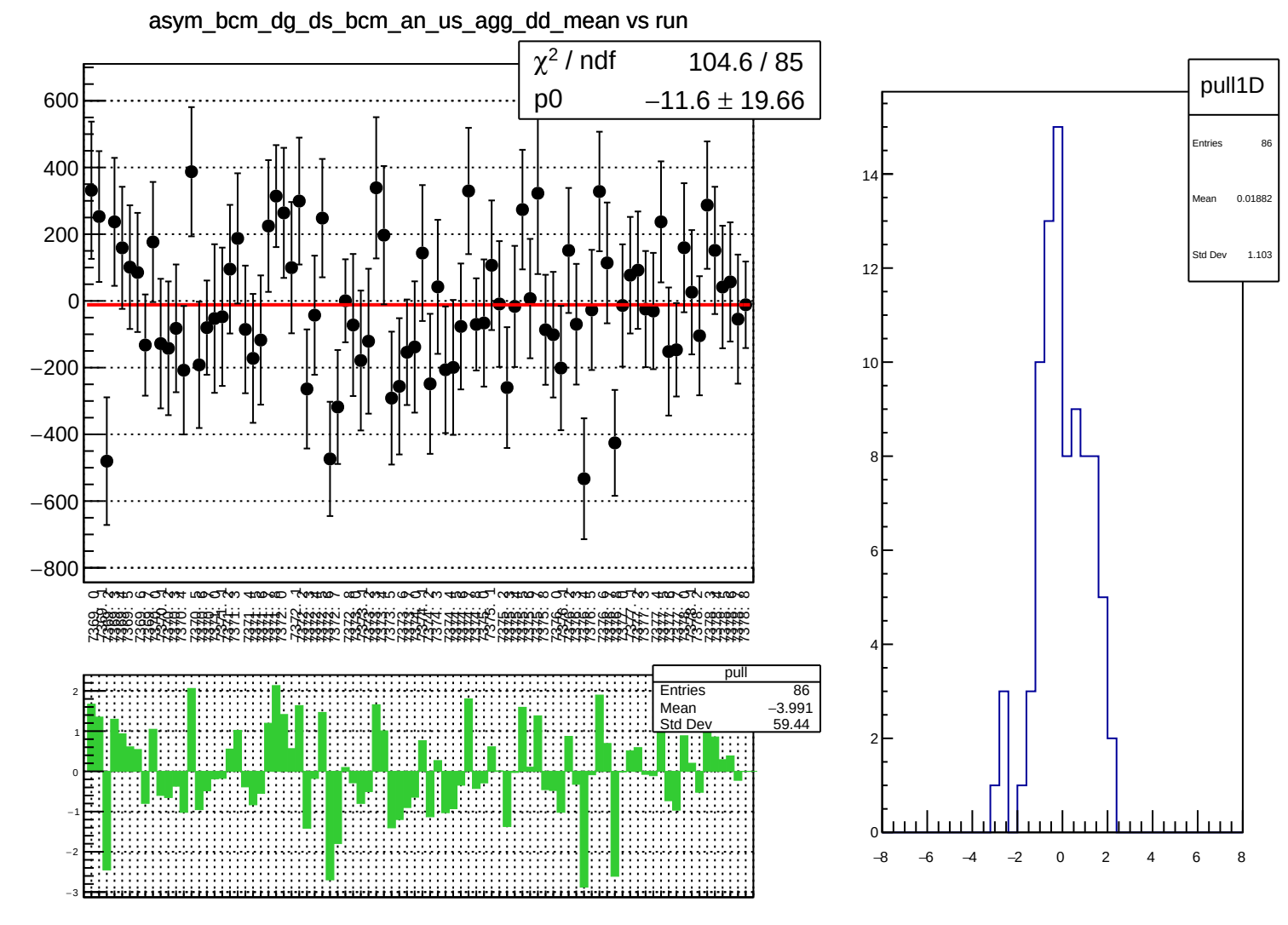

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 85.46 / 85
p0 −24.99 ± 25
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 86
Mean −1.651e+04
Std Dev 0
2
1
0
−1
−2

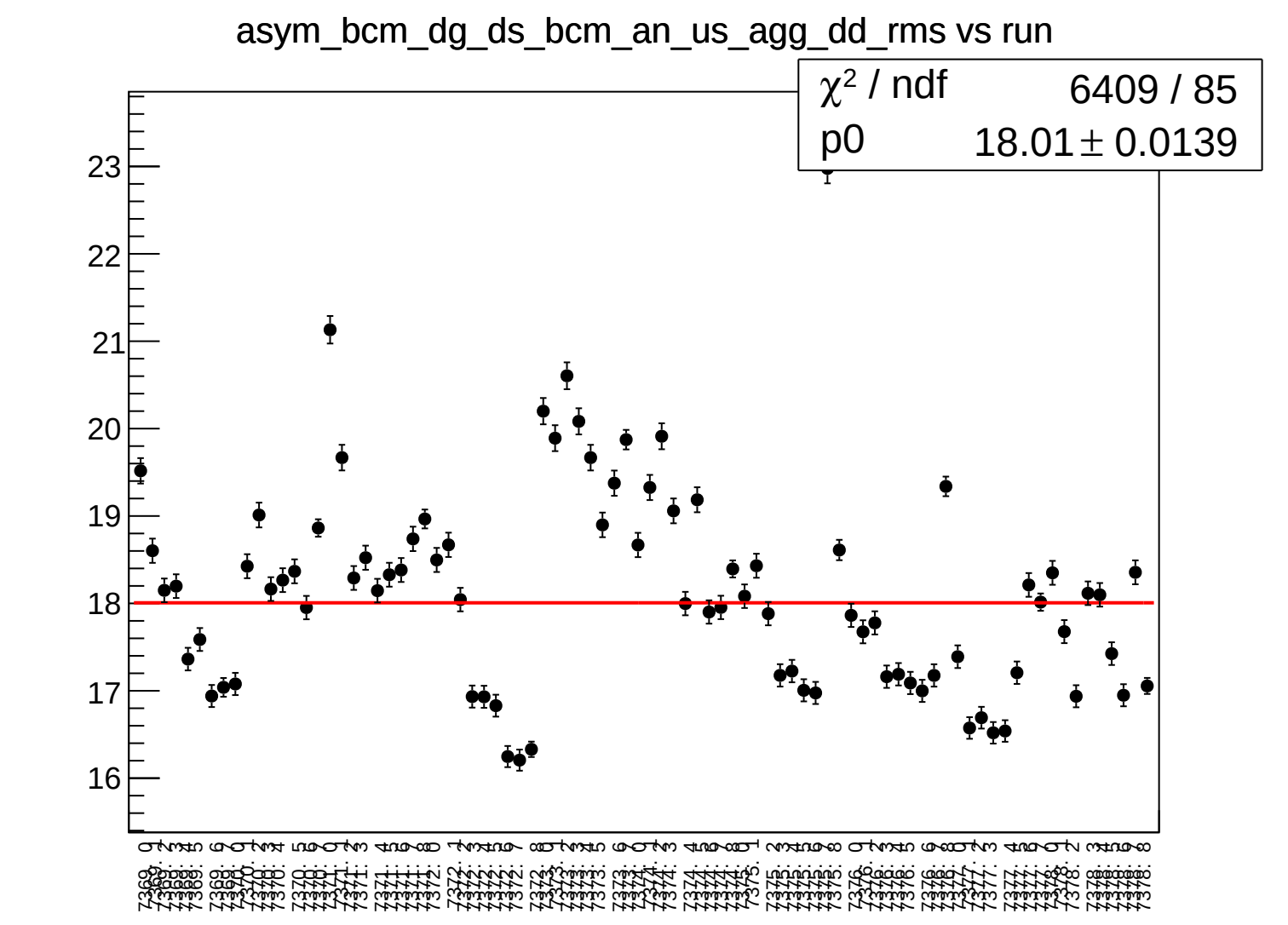

pull1D
Entries 86
Mean −0.000151
Std Dev 0.9968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

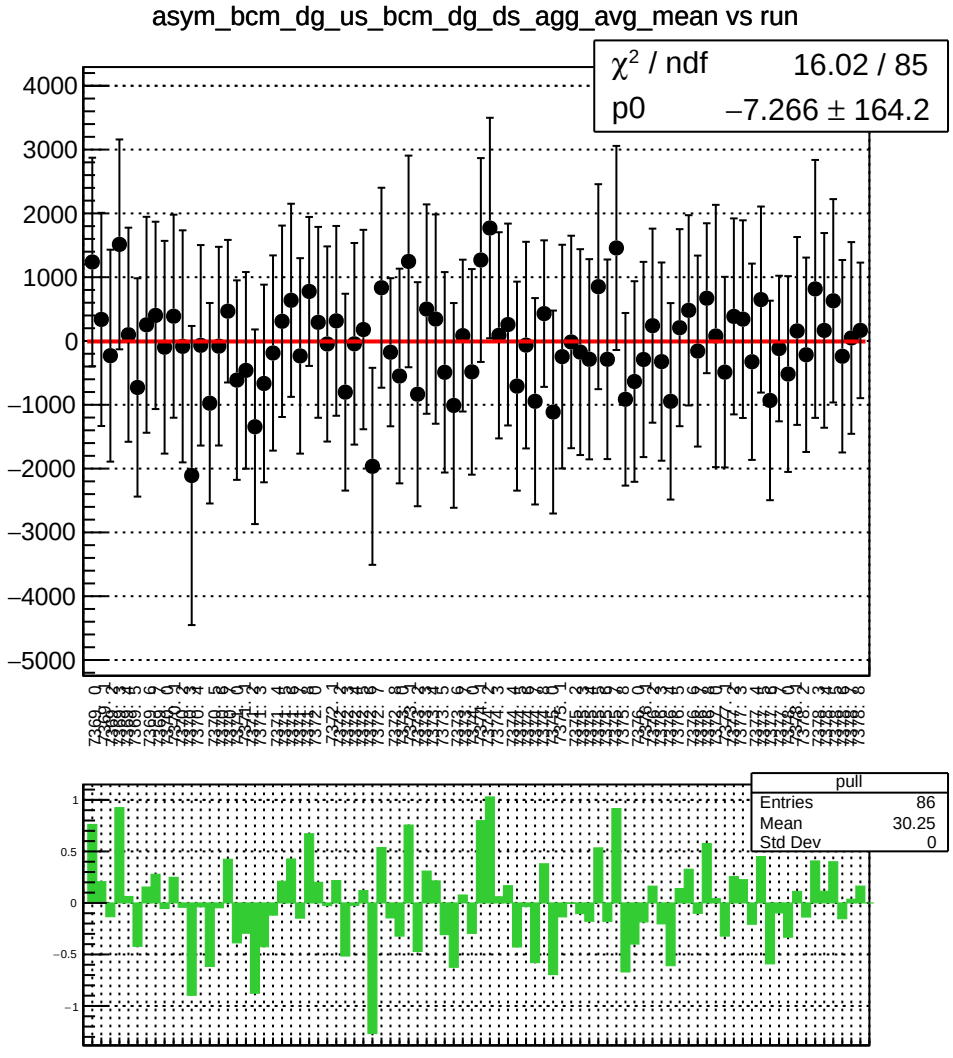

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1412 / 85
p0 22.93 ± 0.01768
28
27
26
25
24
23
22

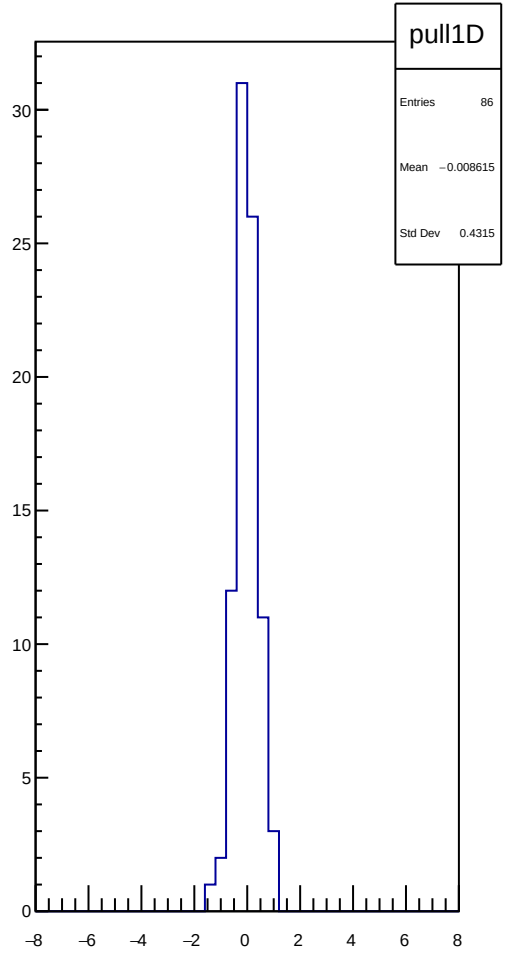

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.65 / 85
p0 19.27 ± 161.7
pull
Entries 86
Mean 70.19
Std Dev 0
pull1D
Entries 86
Mean −0.009233
Std Dev 0.3983

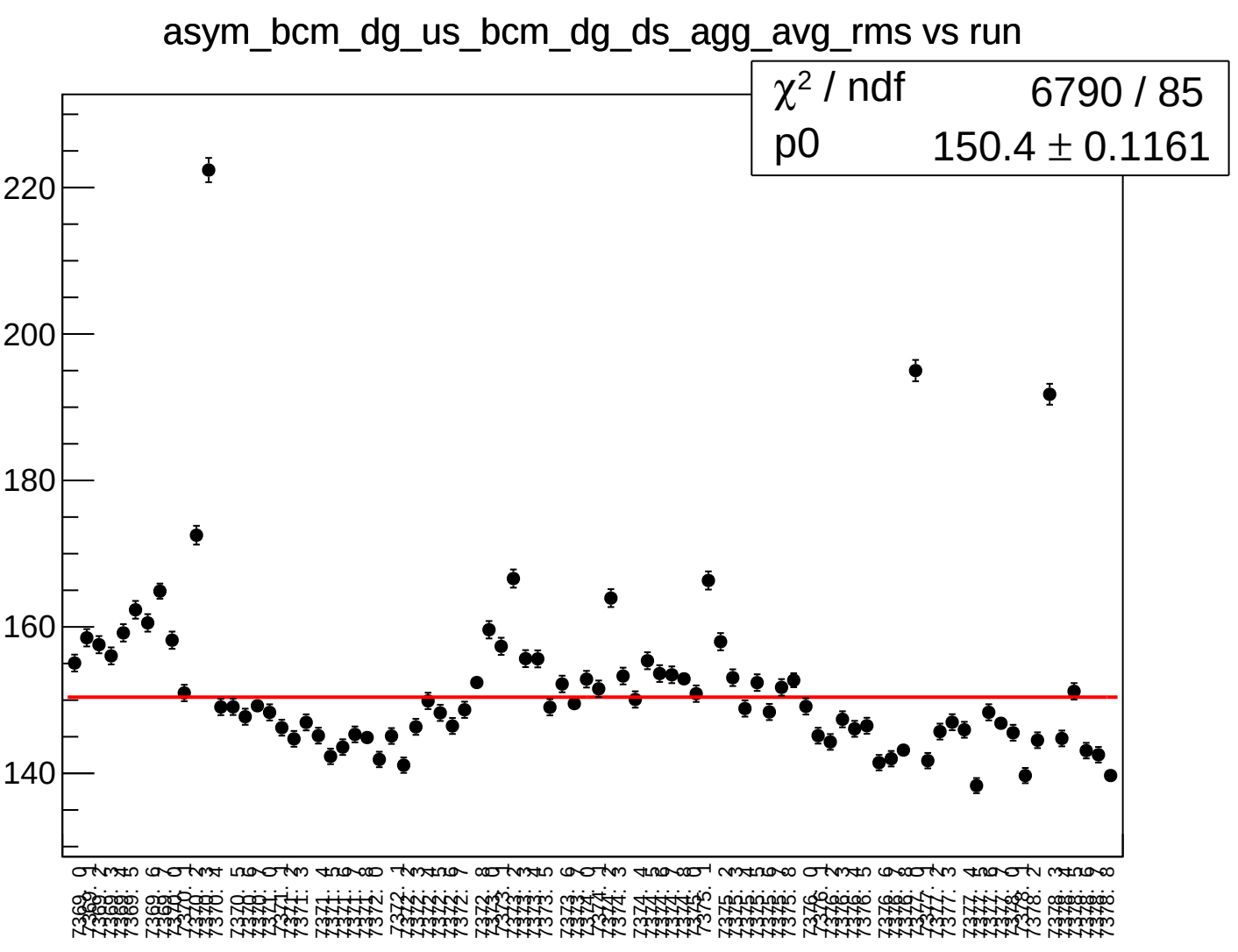

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7023 / 85
p0 148 ± 0.1143
220
200
180
160
140

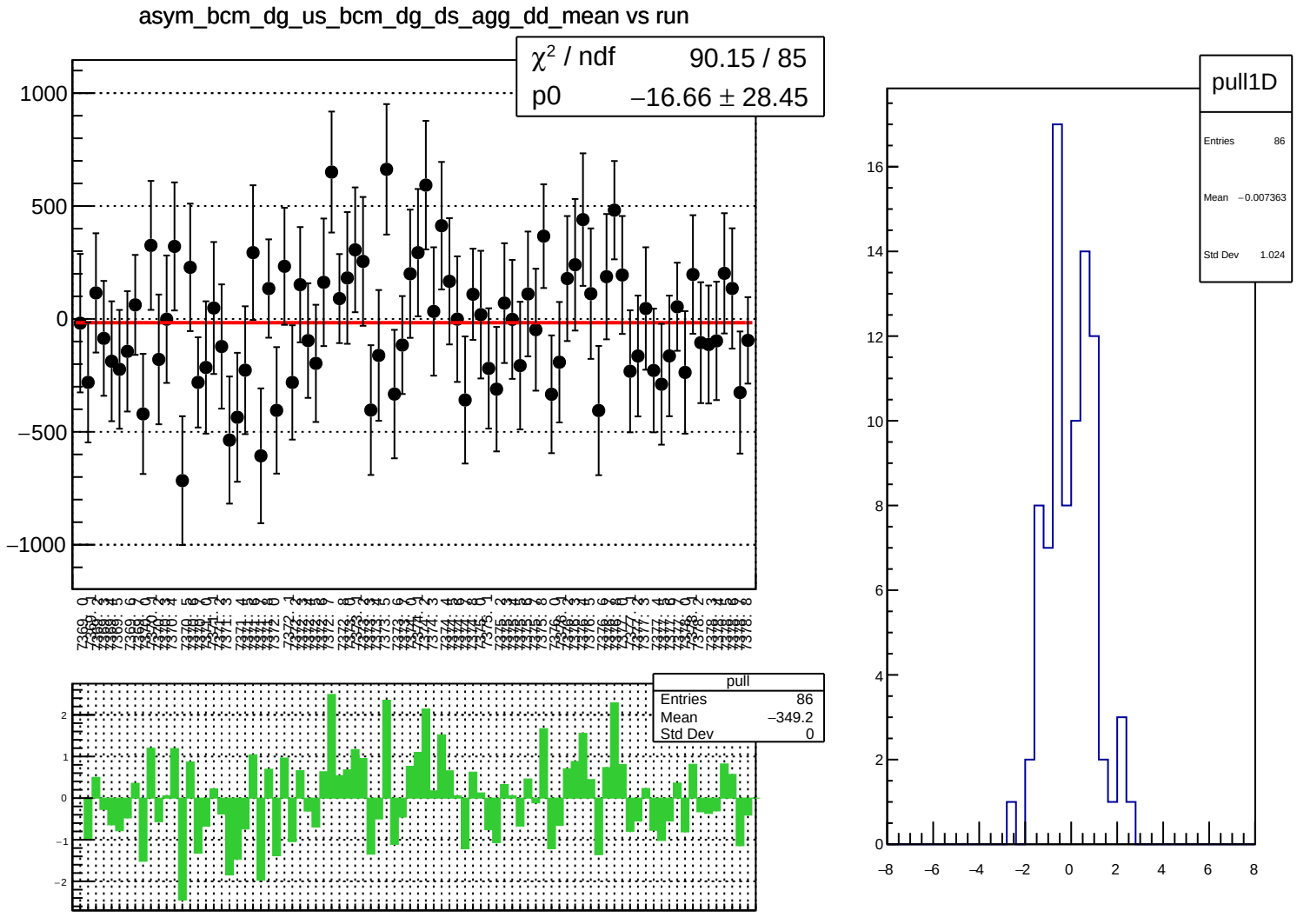

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 104.6 / 85
p0 −11.6 ± 19.66
pull
Entries 86
Mean −3.991
Std Dev 59.44
pull1D
Entries 86
Mean 0.01882
Std Dev 1.103

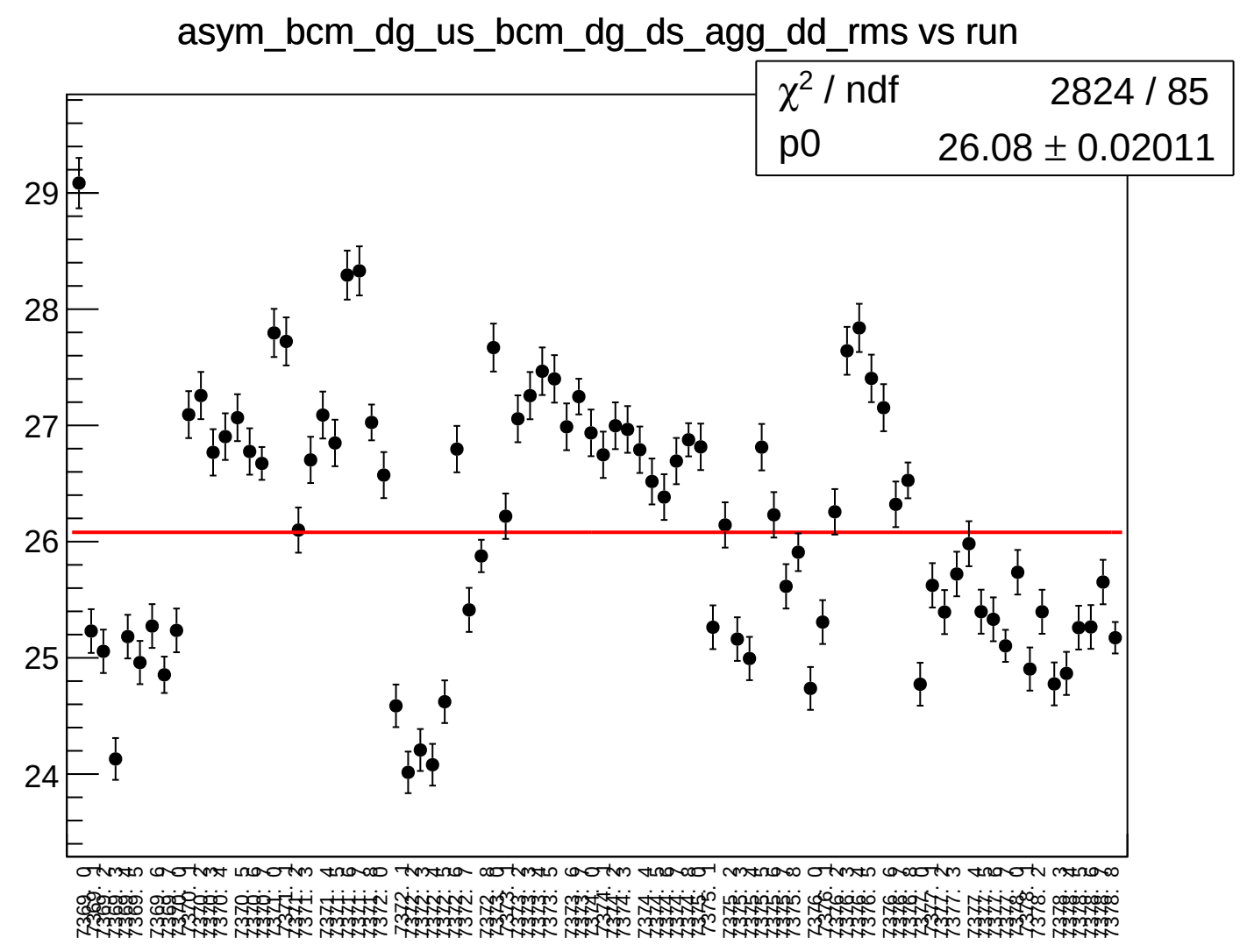

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6409 / 85
p0 18.01 ± 0.0139
23
22
21
20
19
18
17
16

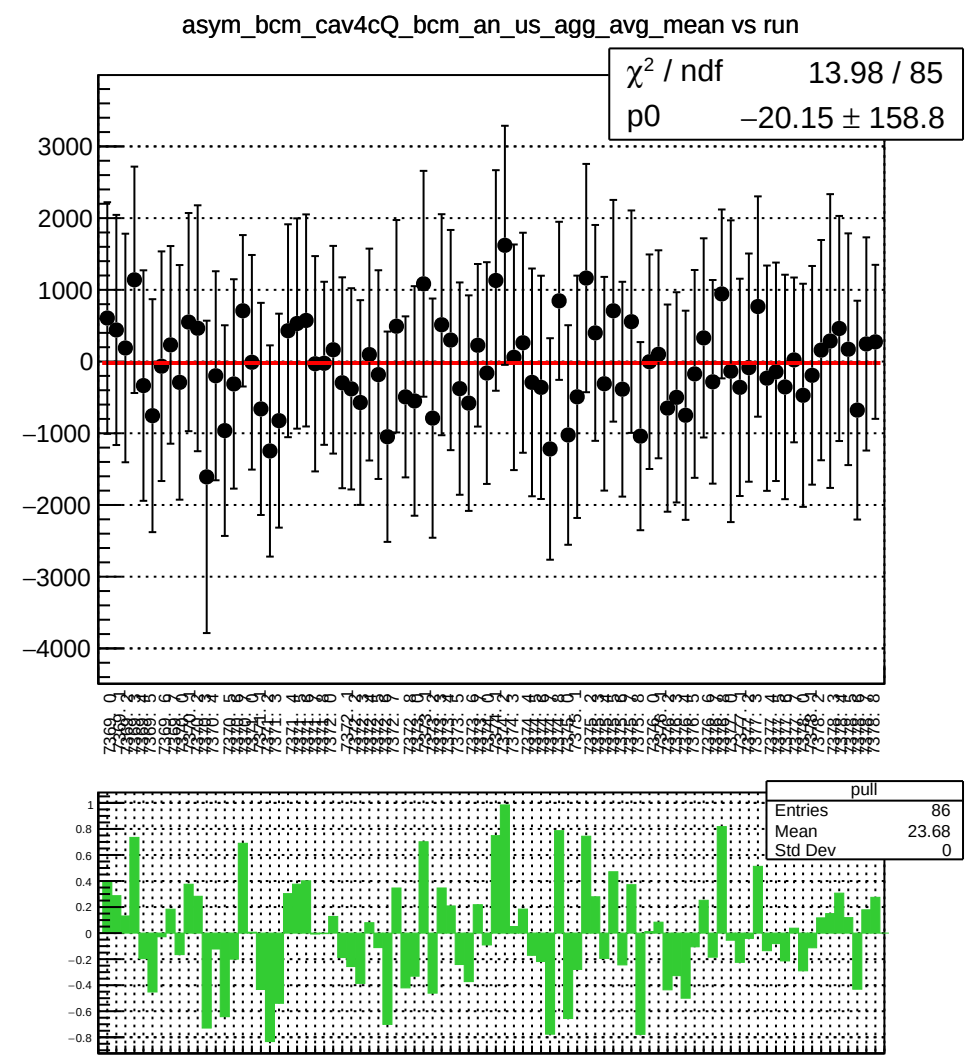

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 16.02 / 85
p0 −7.266 ± 164.2
pull
Entries 86
Mean 30.25
Std Dev 0

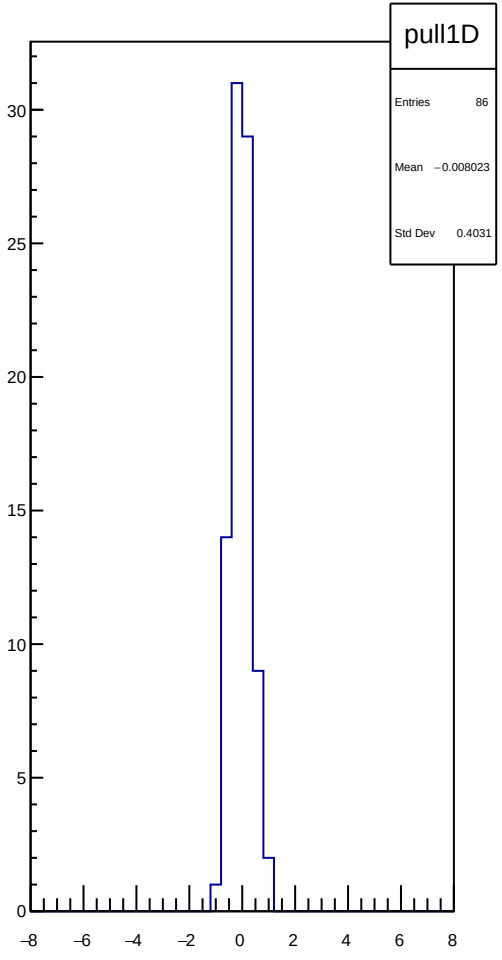

pull1D
Entries 86
Mean −0.008615
Std Dev 0.4315

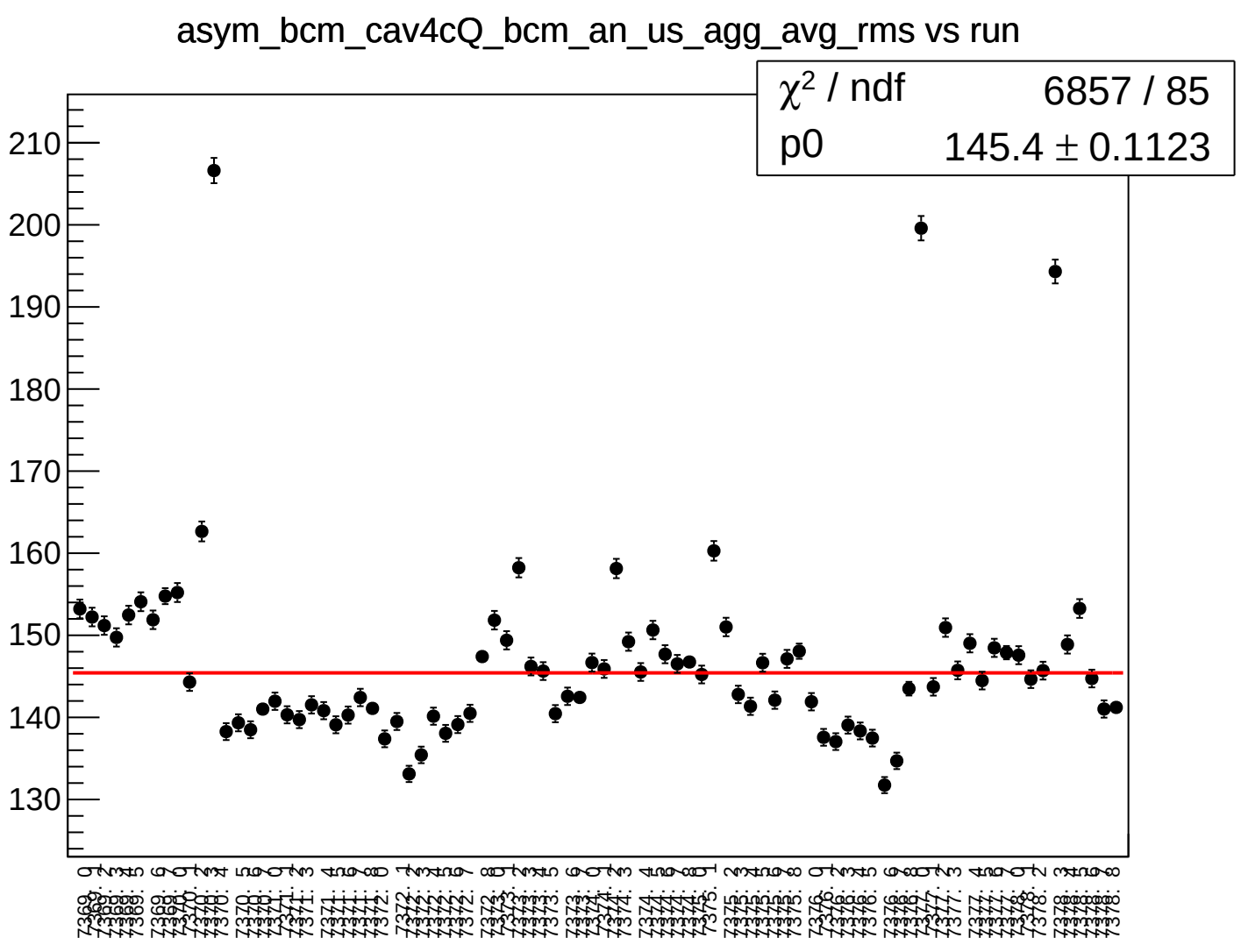

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6790 / 85
p0 150.4 ± 0.1161
220
200
180
160
140

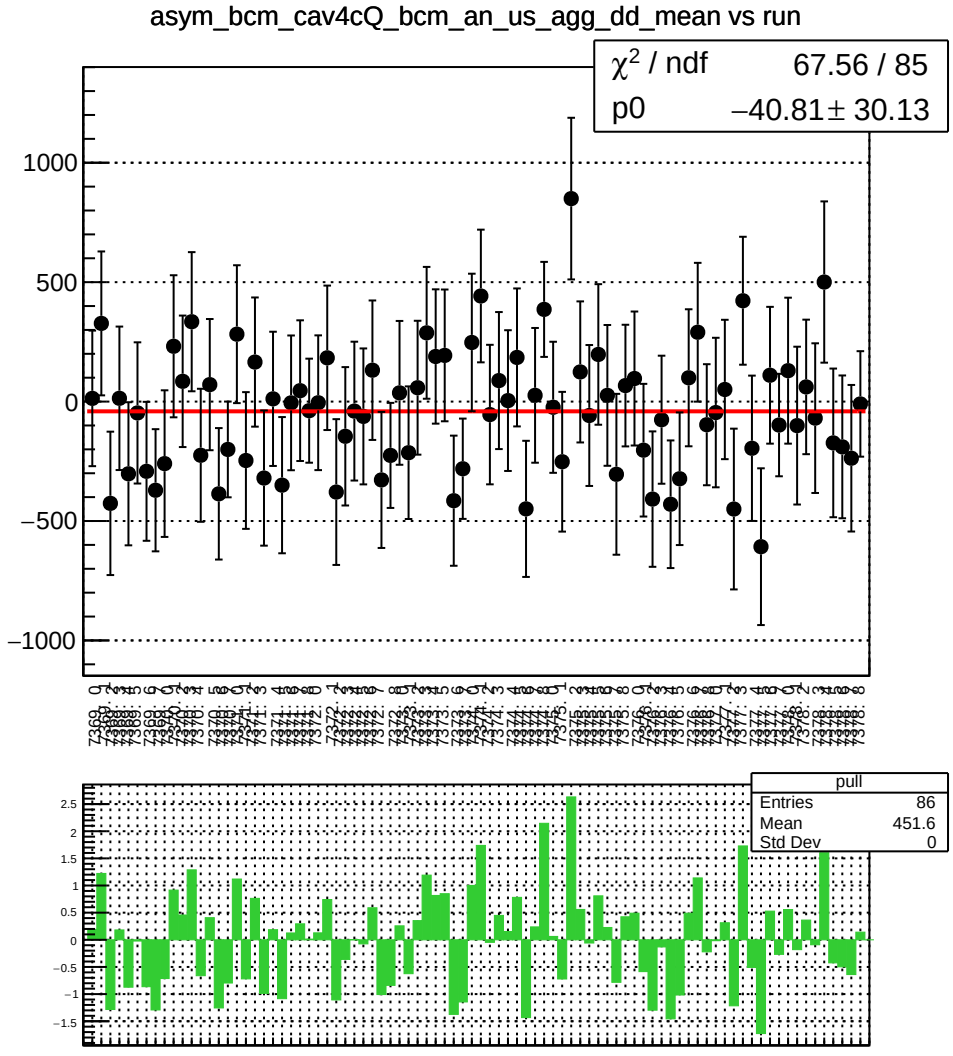

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 90.15 / 85
p0 −16.66 ± 28.45
1000
500
0
−500
−1000
pull
Entries 86
Mean −349.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.007363
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

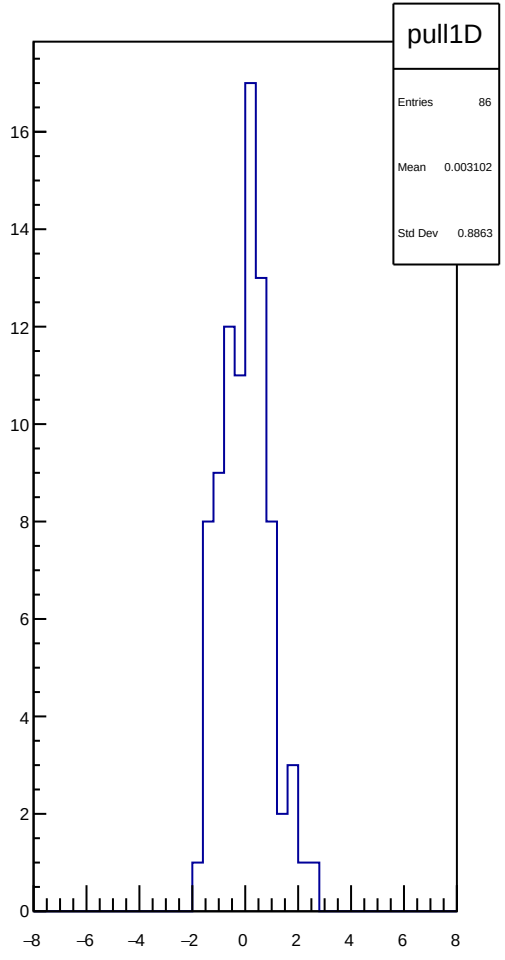

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2824 / 85
p0 26.08 ± 0.02011
29
28
27
26
25
24

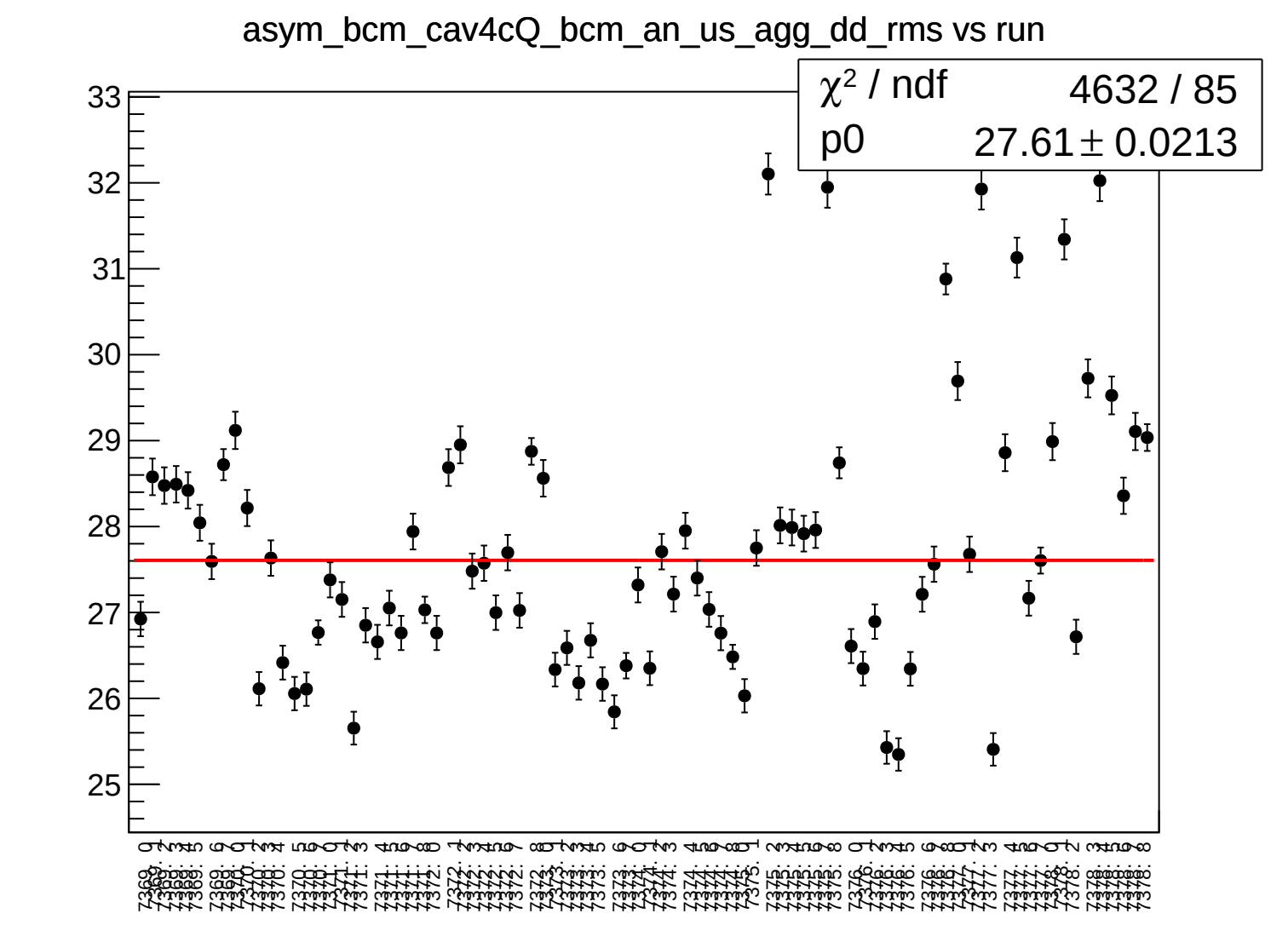

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.98 / 85
p0 −20.15 ± 158.8
pull
Entries 86
Mean 23.68
Std Dev 0

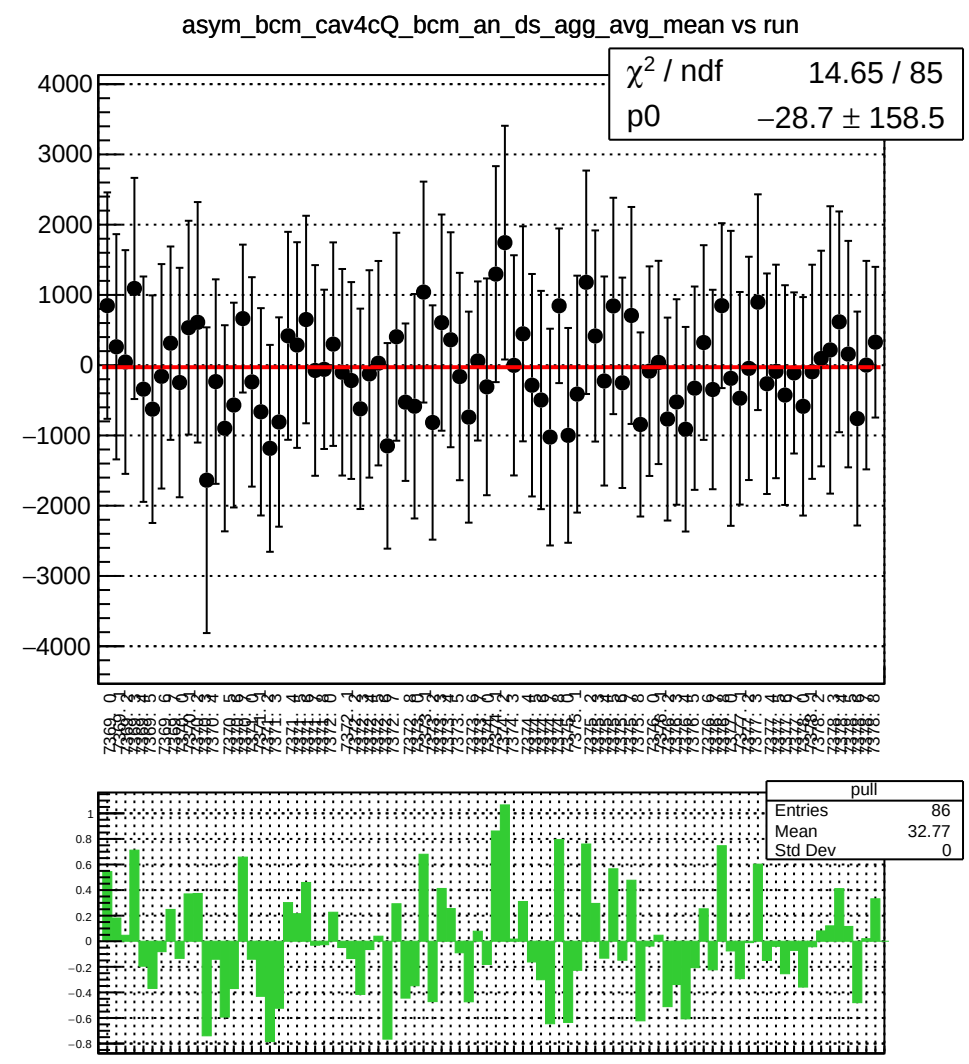

pull1D
Entries 86
Mean −0.008023
Std Dev 0.4031

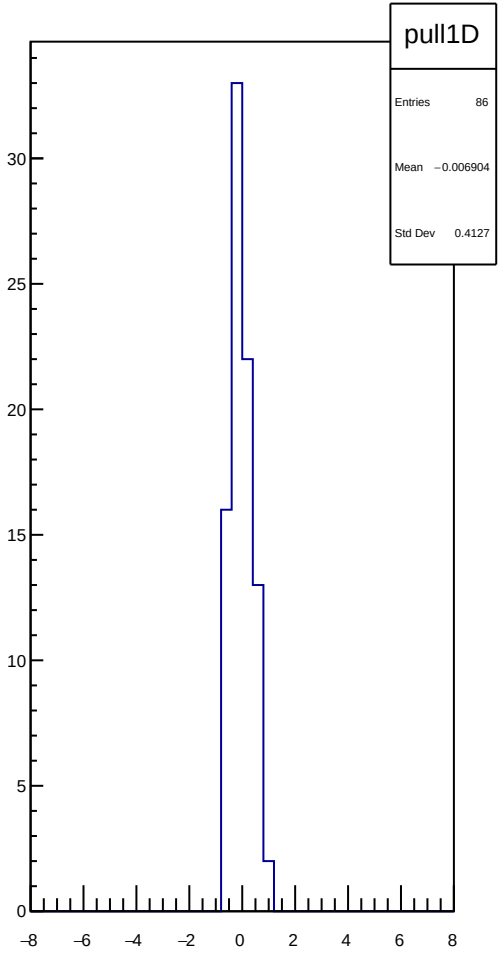

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6857 / 85
p0 145.4 ± 0.1123
210
200
190
180
170
160
150
140
130

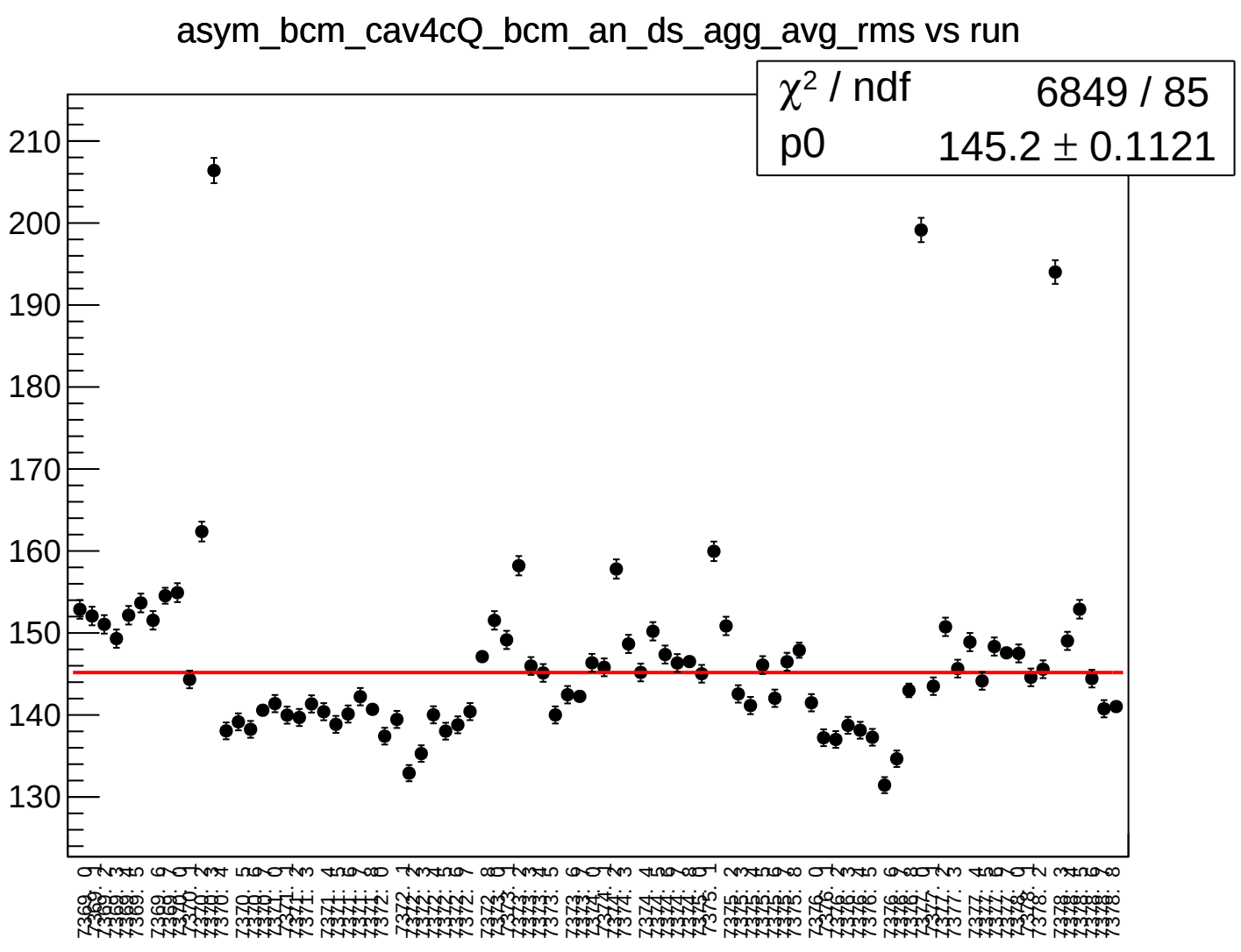

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 67.56 / 85
p0 −40.81 ± 30.13
1000
500
0
−500
−1000
pull
Entries 86
Mean 451.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

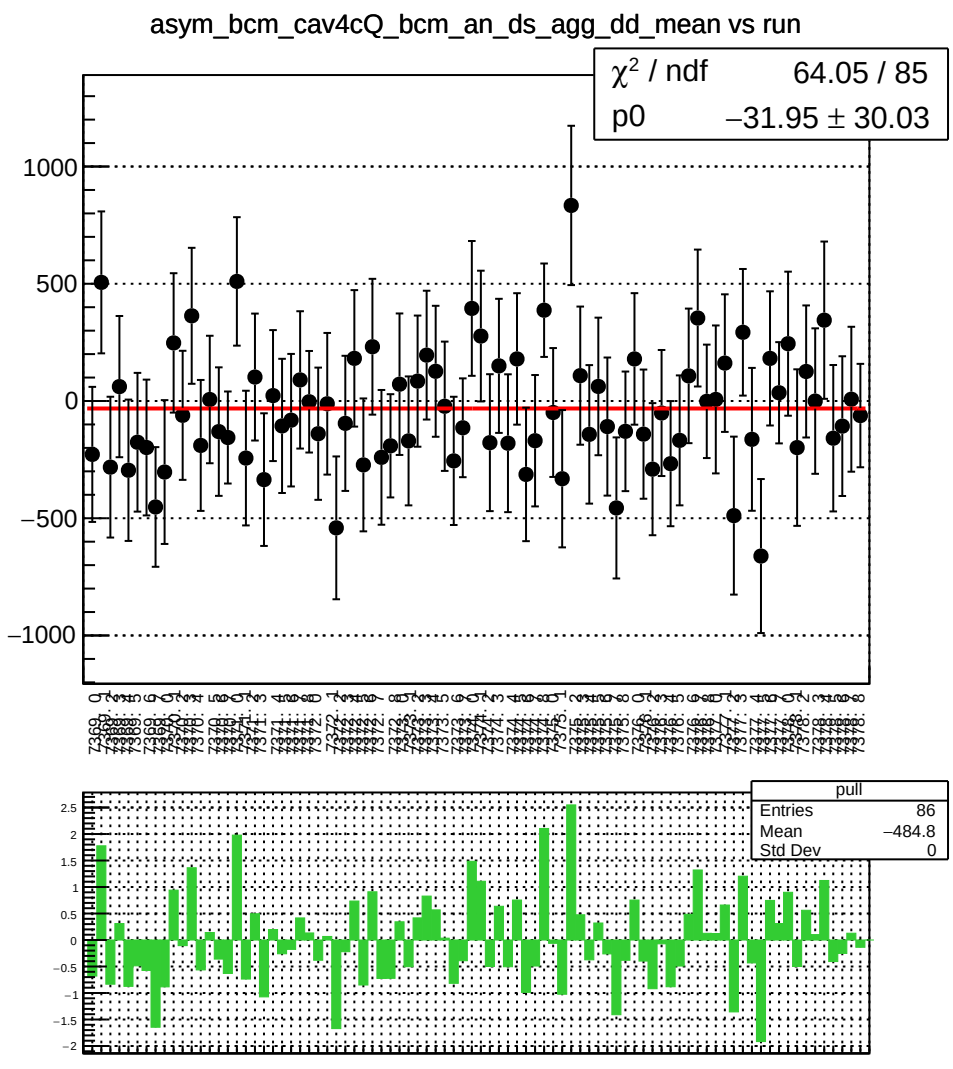

pull1D
Entries 86
Mean 0.003102
Std Dev 0.8863
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

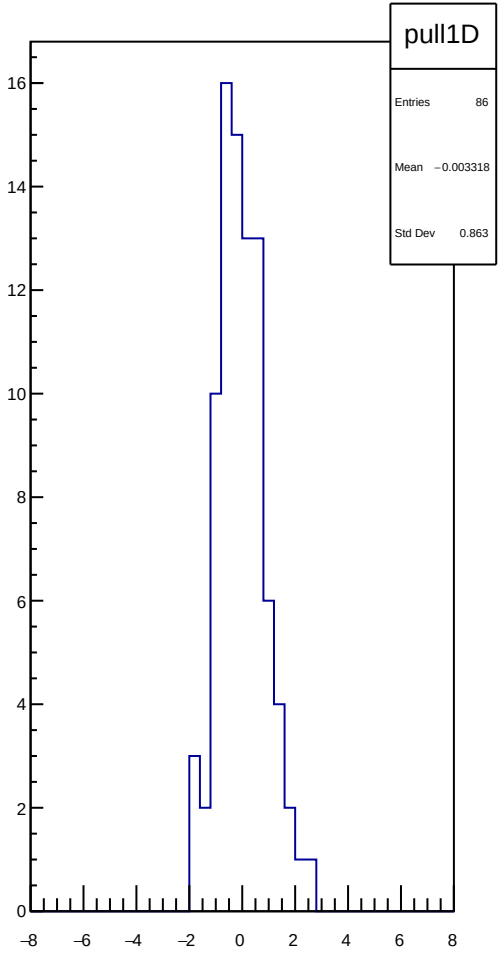

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4632 / 85
p0 27.61 ± 0.0213
33
32
31
30
29
28
27
26
25

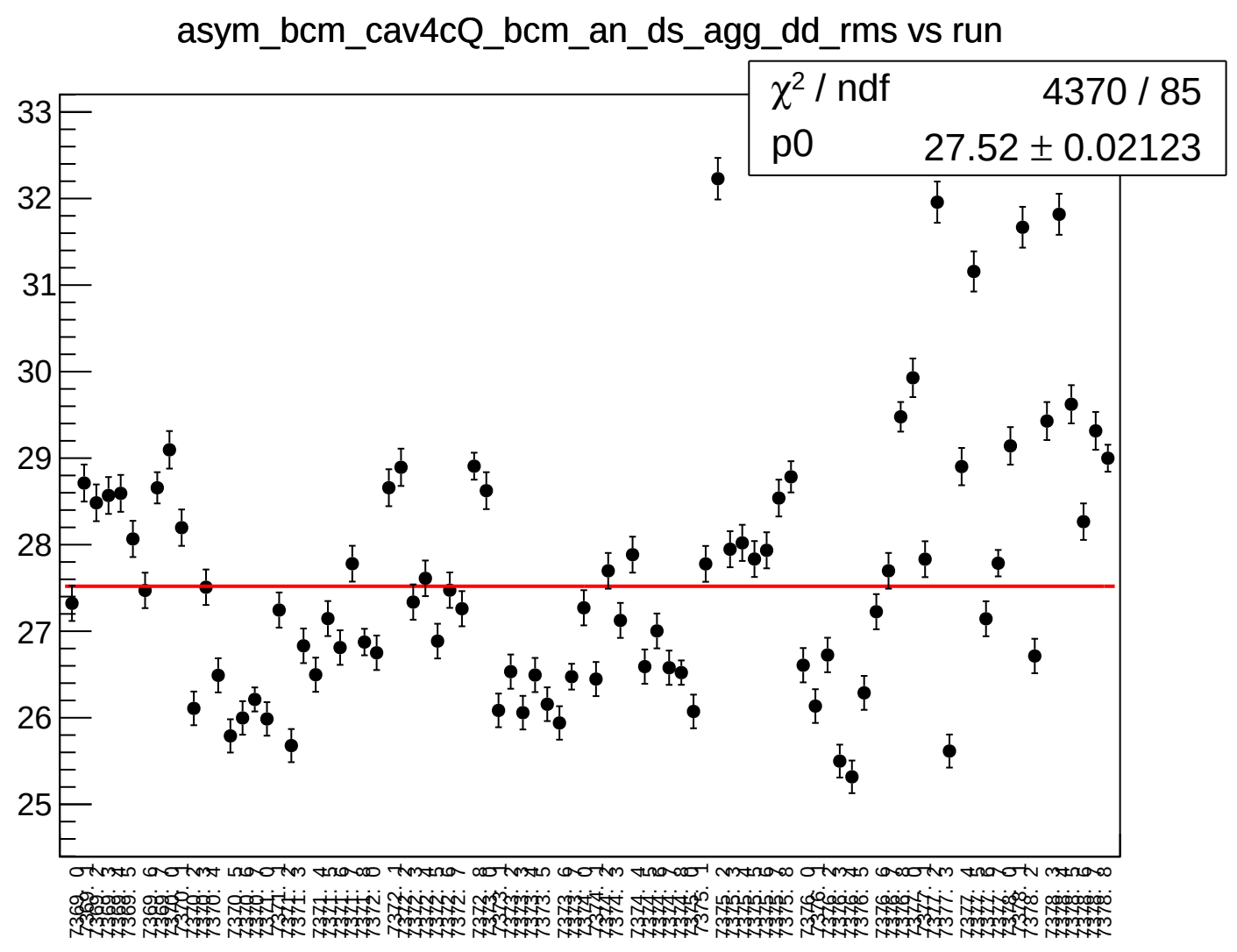

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.65 / 85
p0 −28.7 ± 158.5
pull
Entries 86
Mean 32.77
Std Dev 0

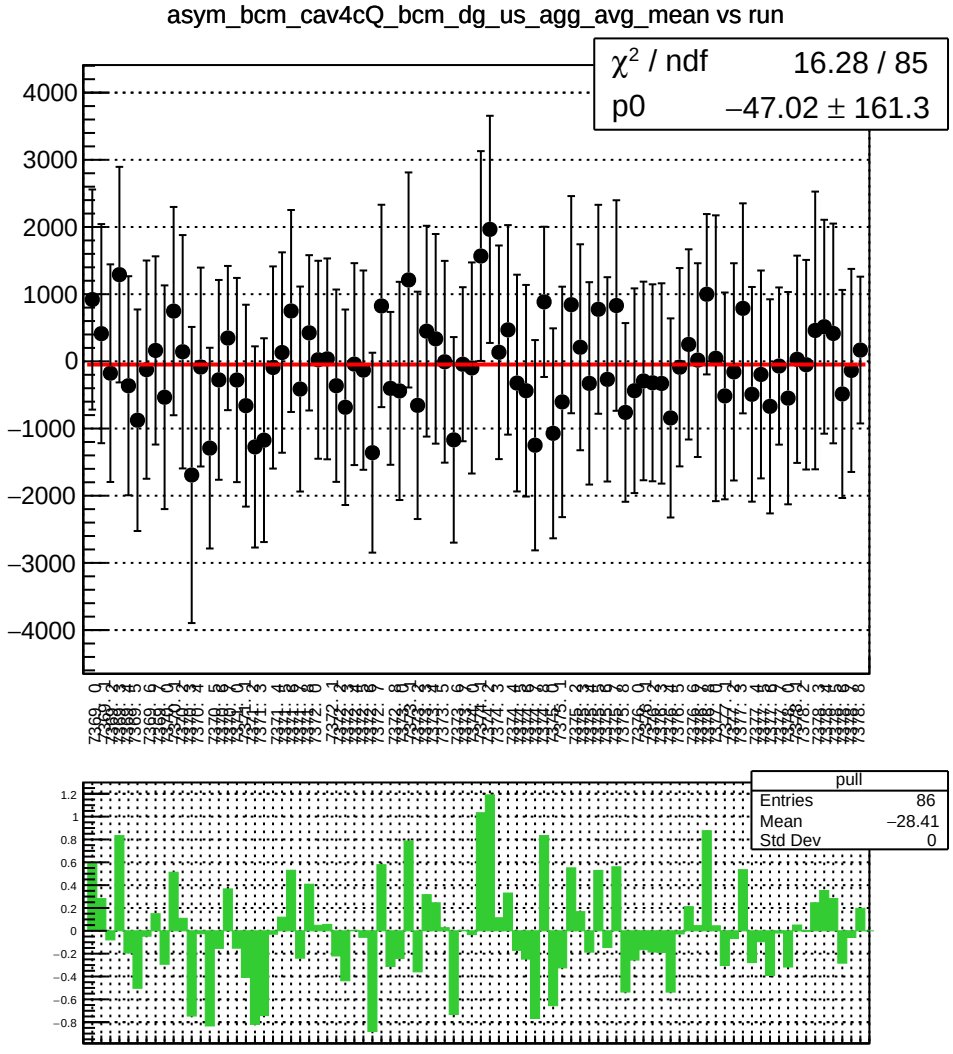

pull1D
Entries 86
Mean −0.006904
Std Dev 0.4127

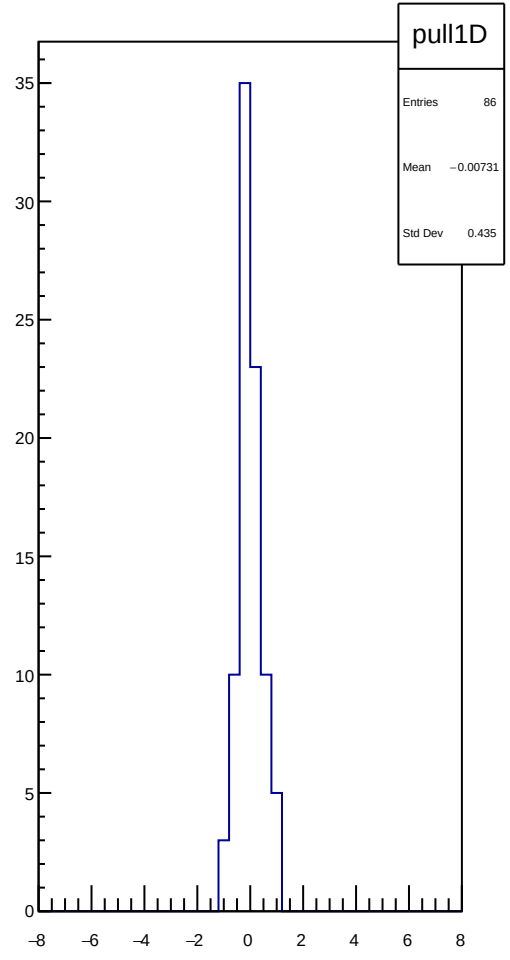

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6849 / 85
p0 145.2 ± 0.1121
210
200
190
180
170
160
150
140
130

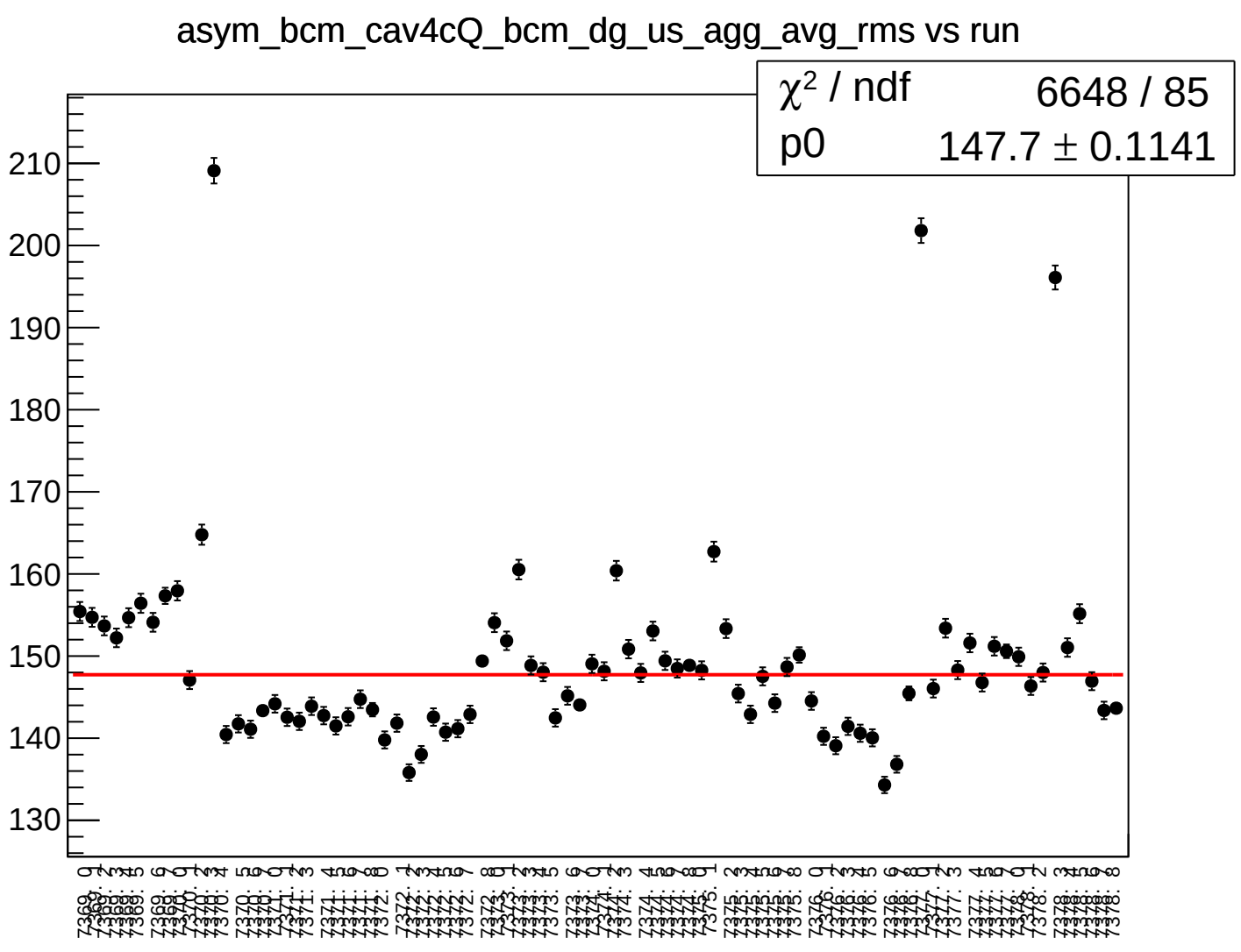

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 64.05 / 85
p0 −31.95 ± 30.03
1000
500
0
−500
−1000
pull
Entries 86
Mean −484.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

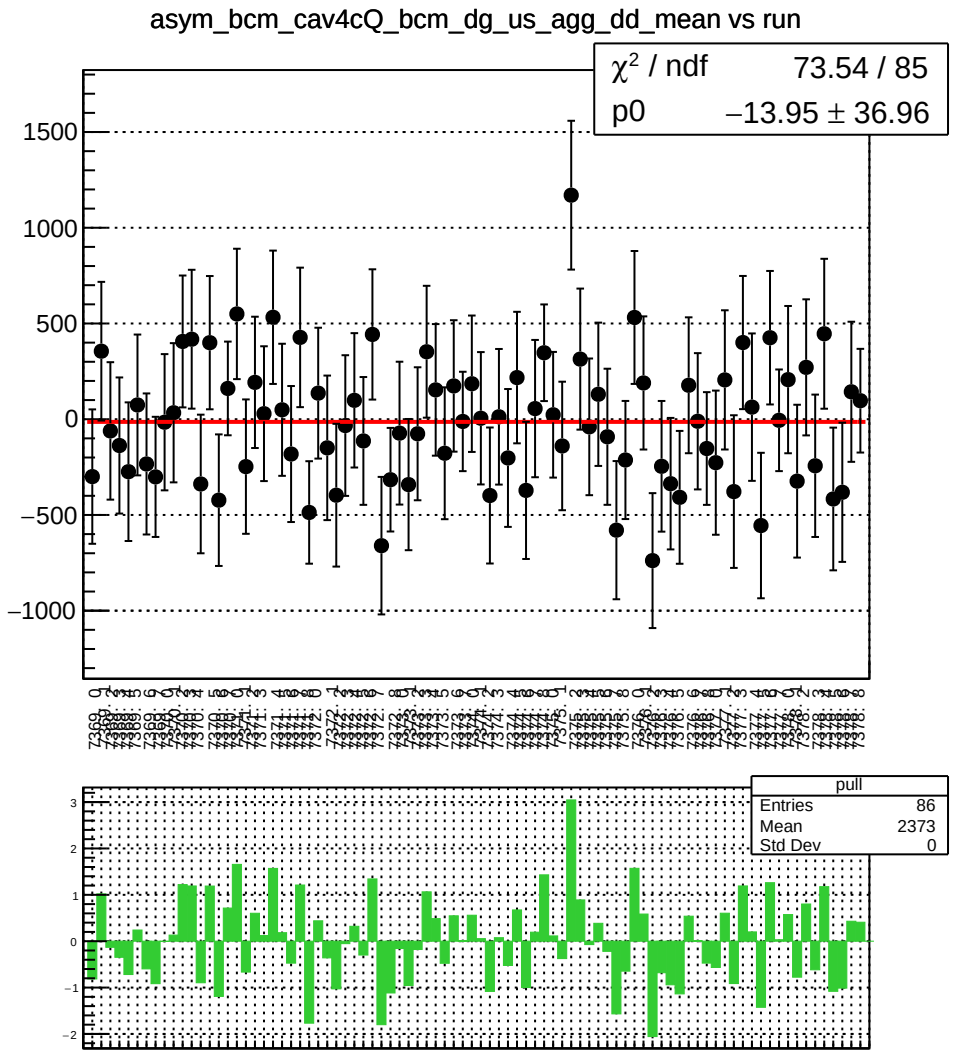

pull1D
Entries 86
Mean −0.003318
Std Dev 0.863
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

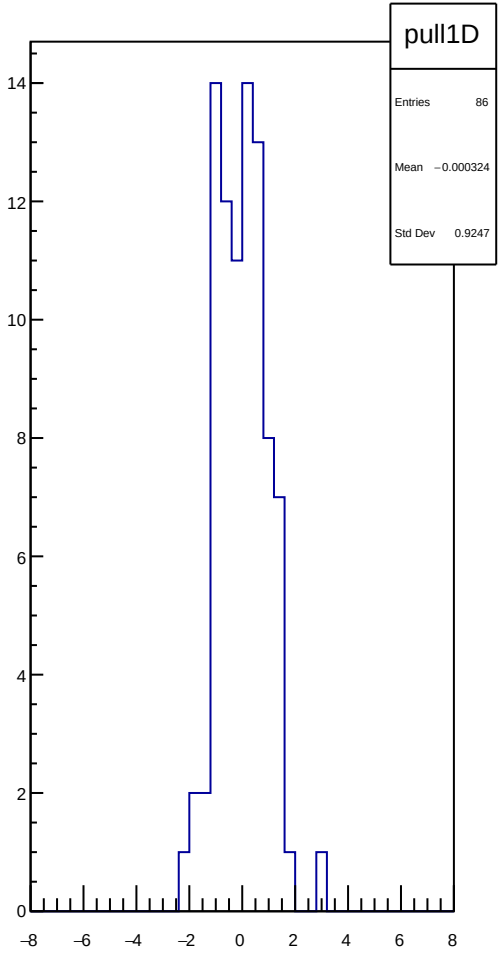

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4370 / 85
p0 27.52 ± 0.02123
33
32
31
30
29
28
27
26
25

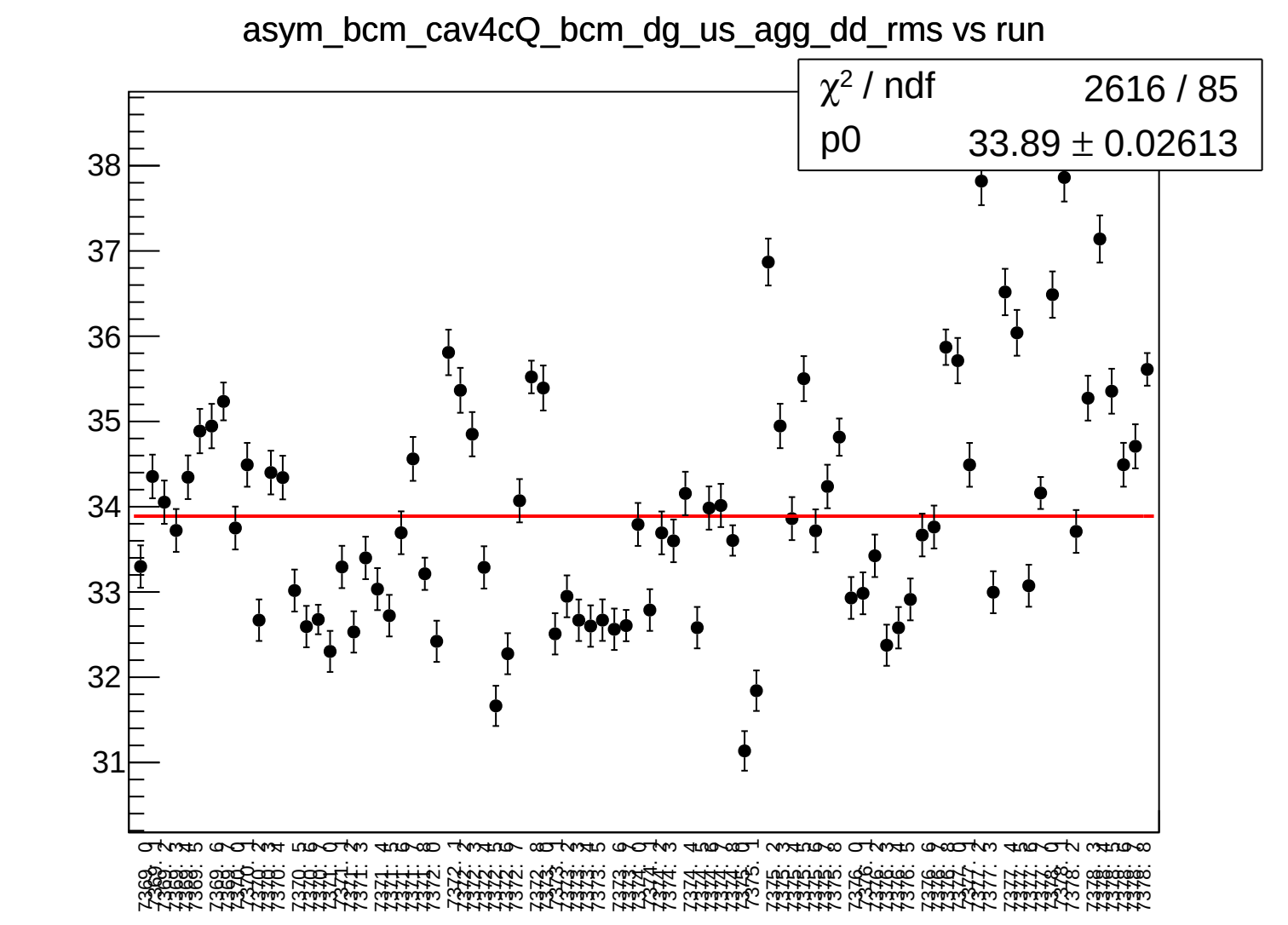

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 16.28 / 85
p0 −47.02 ± 161.3
pull
Entries 86
Mean −28.41
Std Dev 0

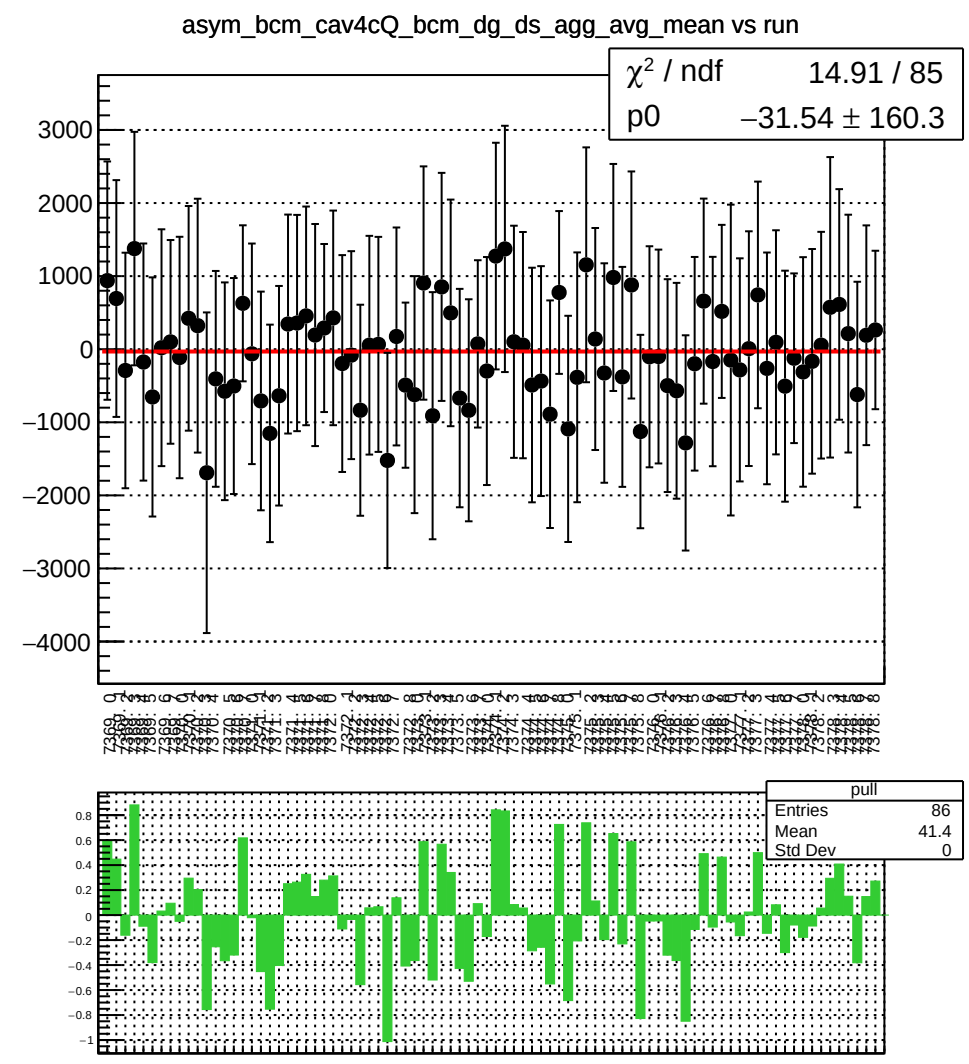

pull1D
Entries 86
Mean −0.00731
Std Dev 0.435

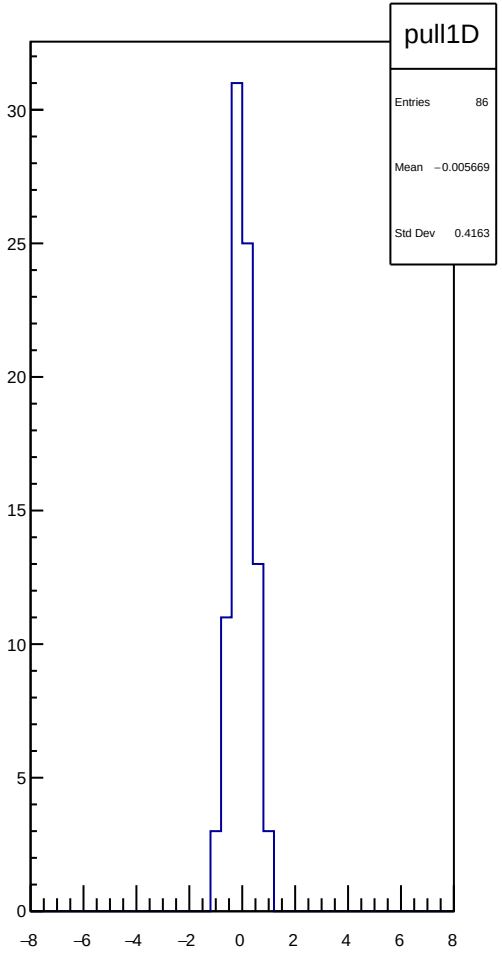

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 6648 / 85
p0 147.7 ± 0.1141
210
200
190
180
170
160
150
140
130

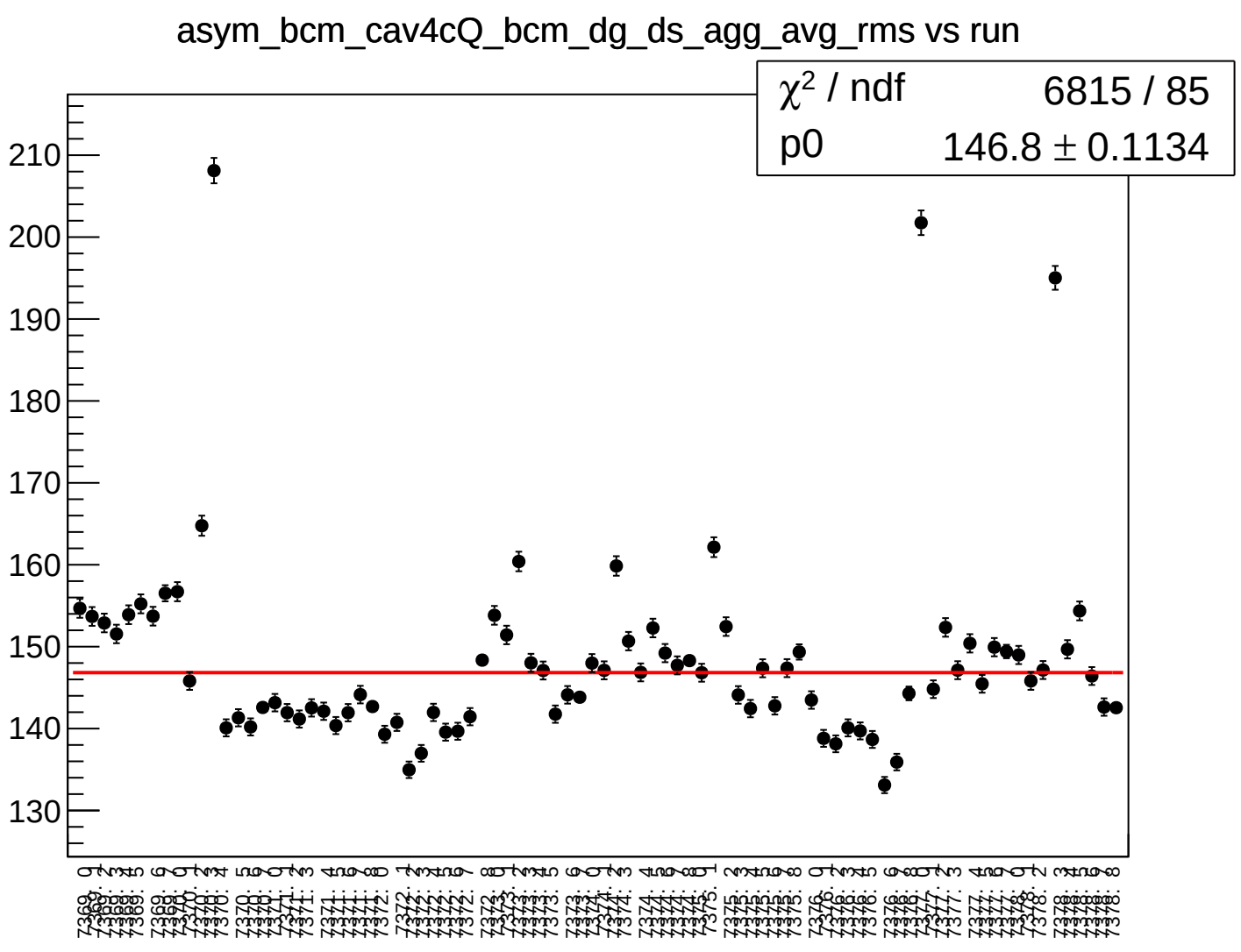

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 73.54 / 85
p0 −13.95 ± 36.96
1500
1000
500
0
−500
−1000
pull
Entries 86
Mean 2373
Std Dev 0
3
2
1
0
−1
−2

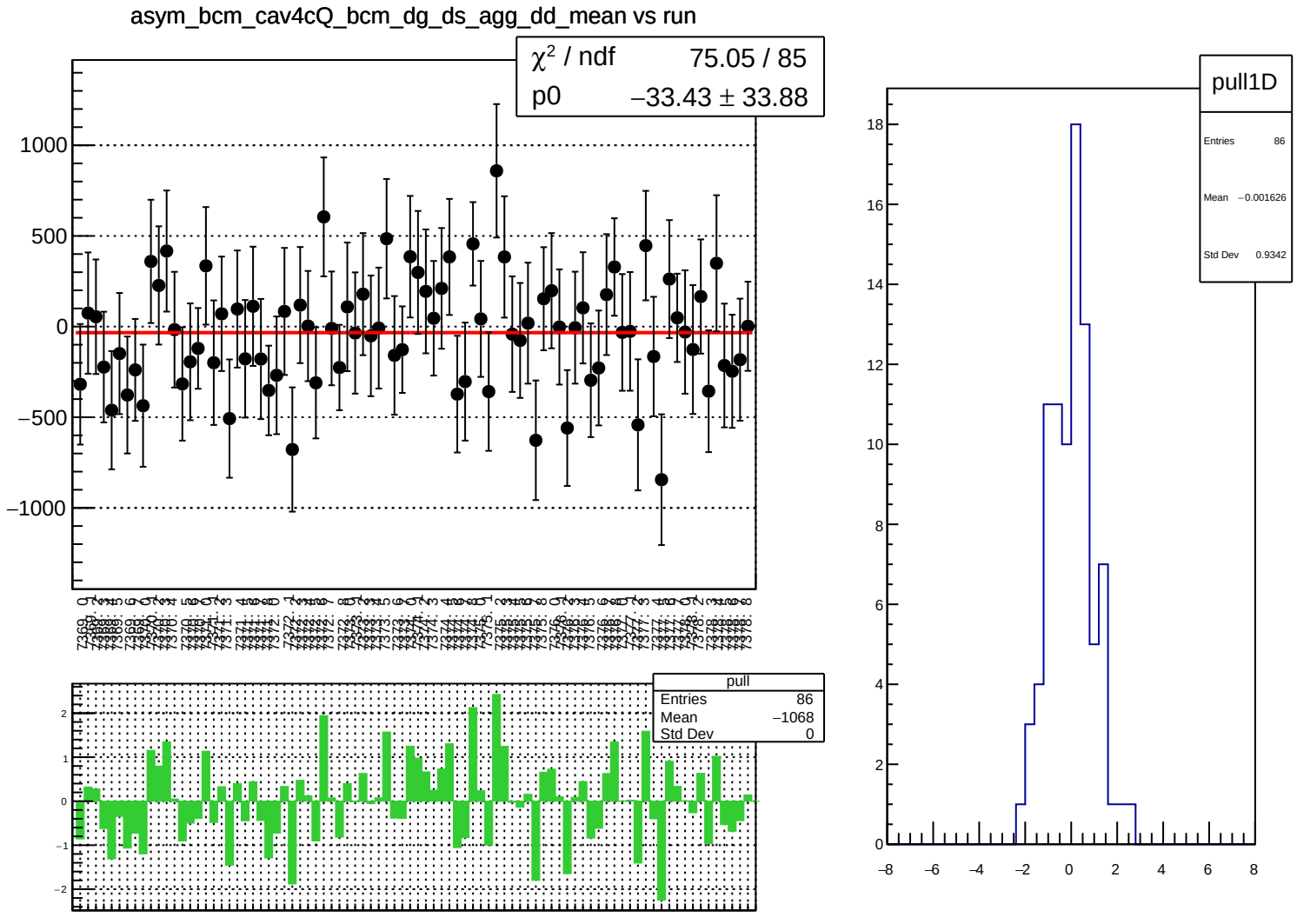

pull1D
Entries 86
Mean −0.000324
Std Dev 0.9247
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

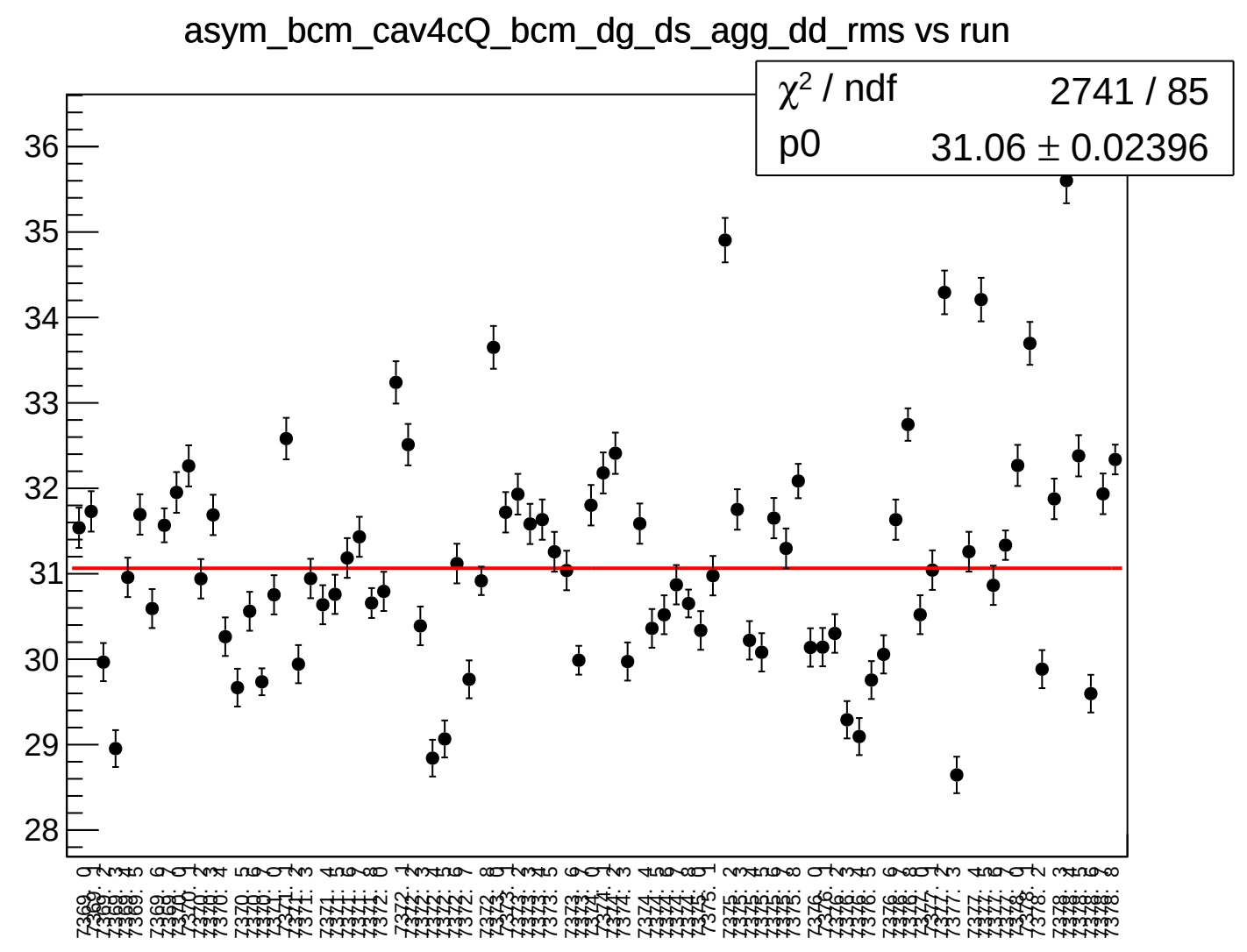

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2616 / 85
p0 33.89 ± 0.02613
38
37
36
35
34
33
32
31

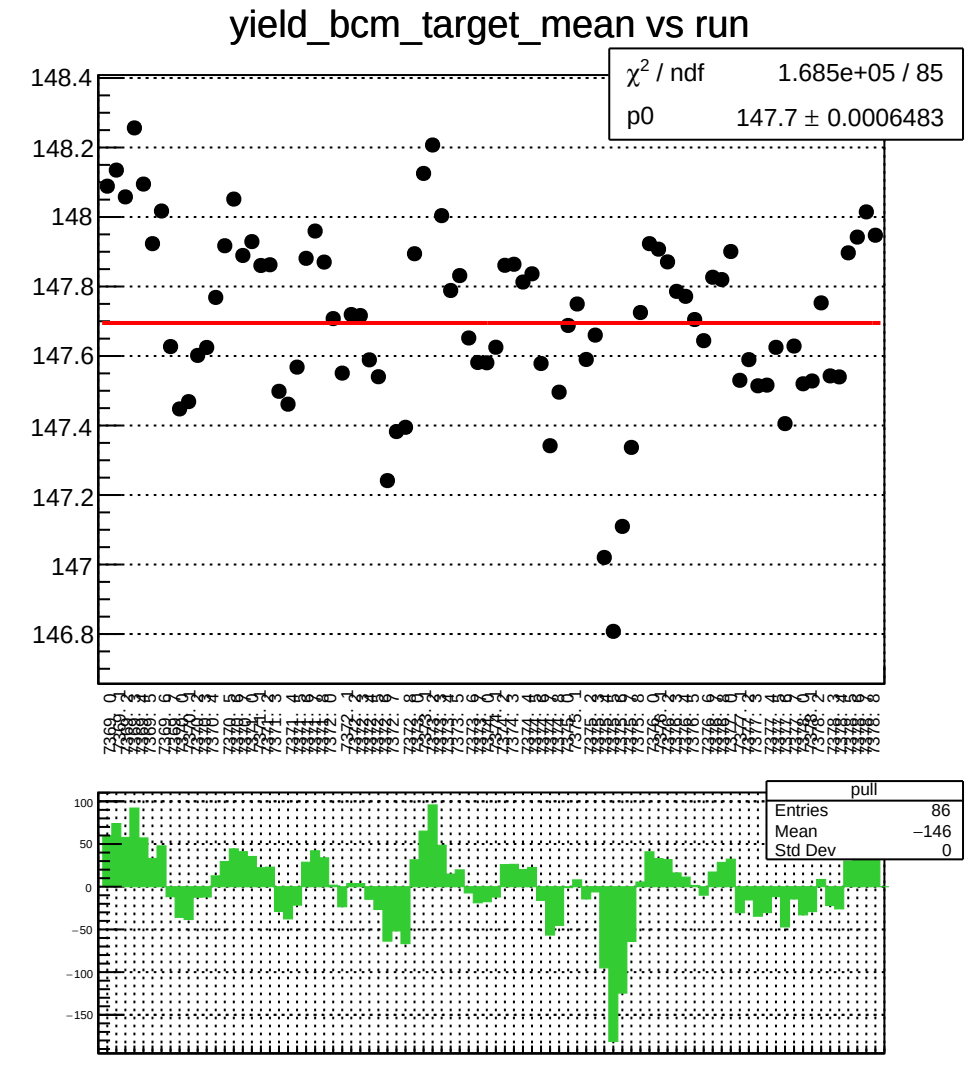

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.91 / 85
p0 −31.54 ± 160.3
pull
Entries 86
Mean 41.4
Std Dev 0

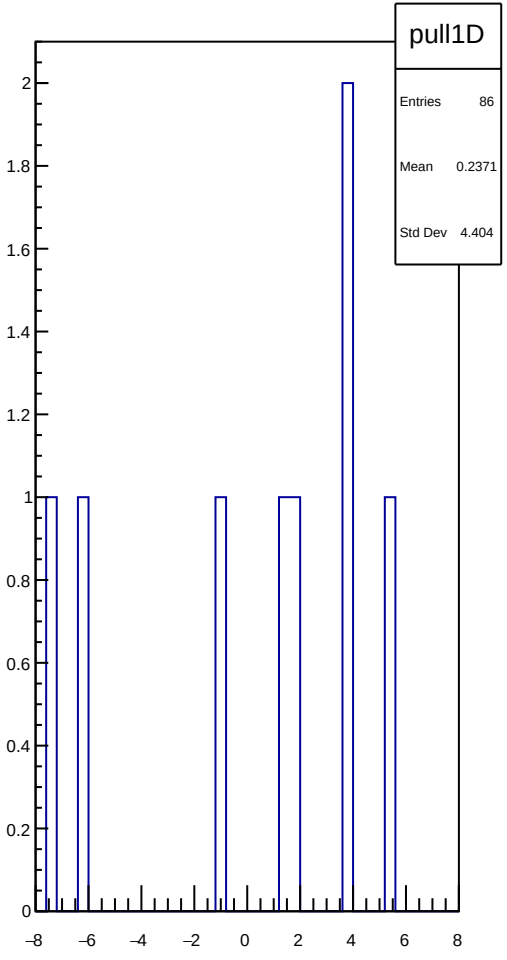

pull1D
Entries 86
Mean −0.005669
Std Dev 0.4163

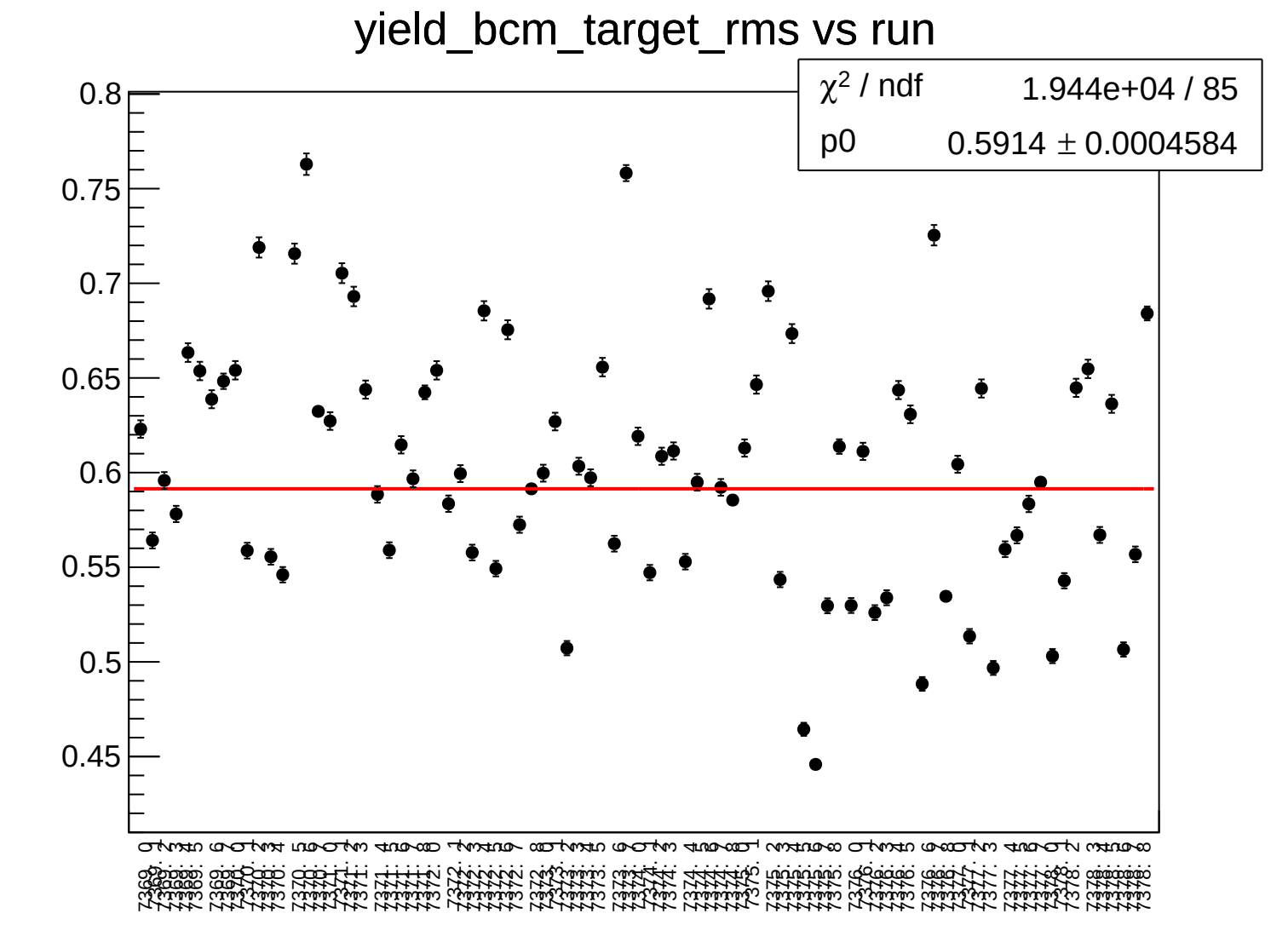

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6815 / 85
p0 146.8 ± 0.1134
210
200
190
180
170
160
150
140
130

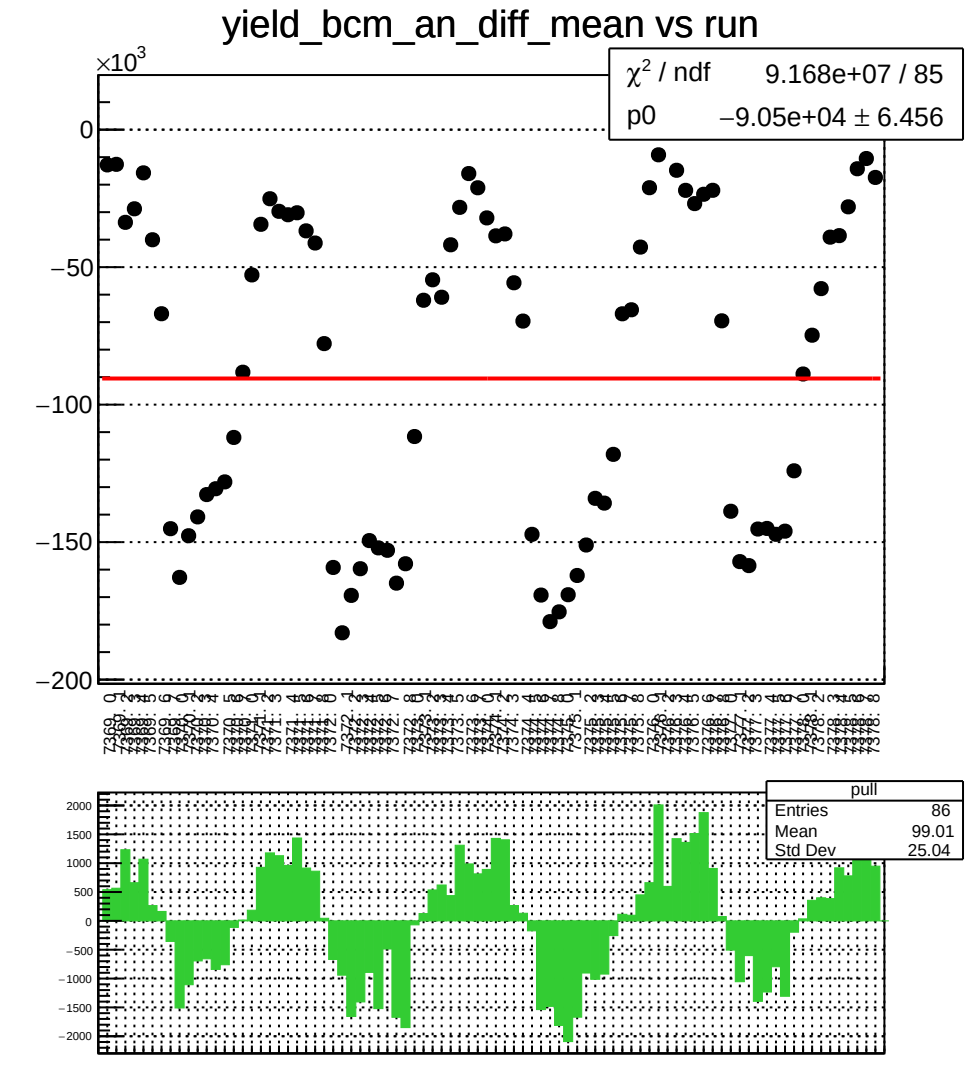

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 75.05 / 85
p0 −33.43 ± 33.88
1000
500
0
−500
−1000
pull
Entries 86
Mean −1068
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.001626
Std Dev 0.9342
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

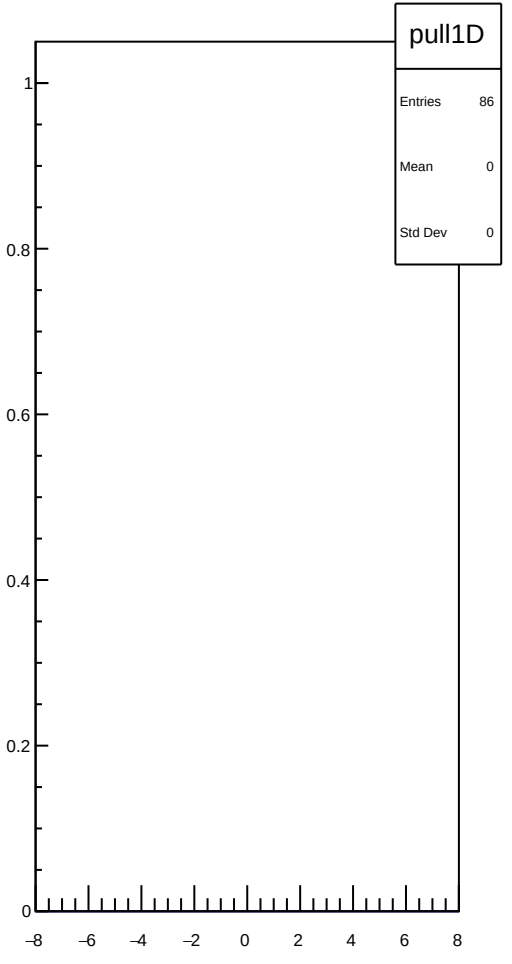

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2741 / 85
p0 31.06 ± 0.02396
36
35
34
33
32
31
30
29
28

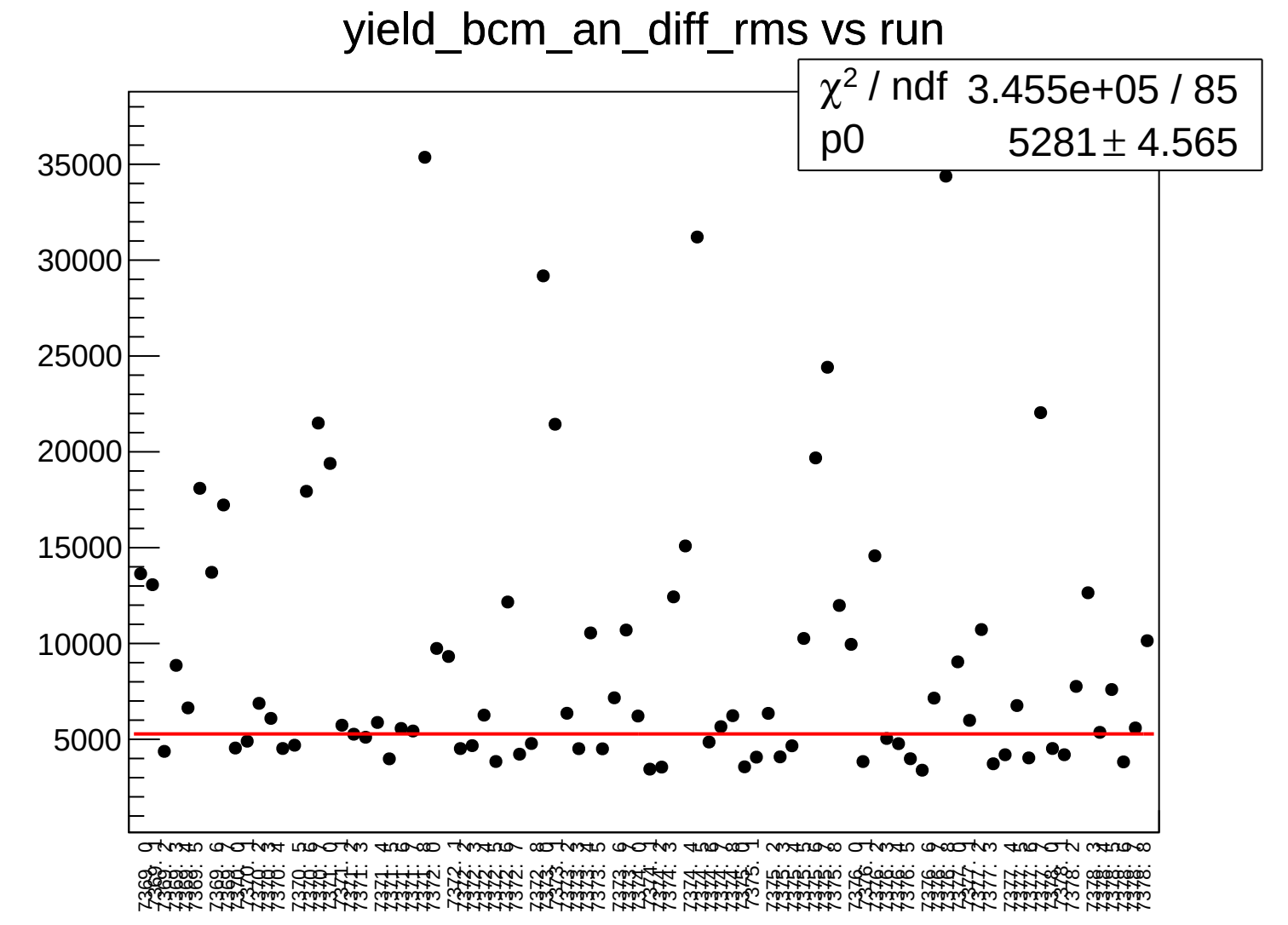

yield_bcm_target_mean vs run
χ² / ndf 1.685e+05 / 85
p0 147.7 ± 0.0006483
148.4
148.2
148
147.8
147.6
147.4
147.2
147
146.8
pull
Entries 86
Mean −146
Std Dev 0
100
50
0
−50
−100
−150

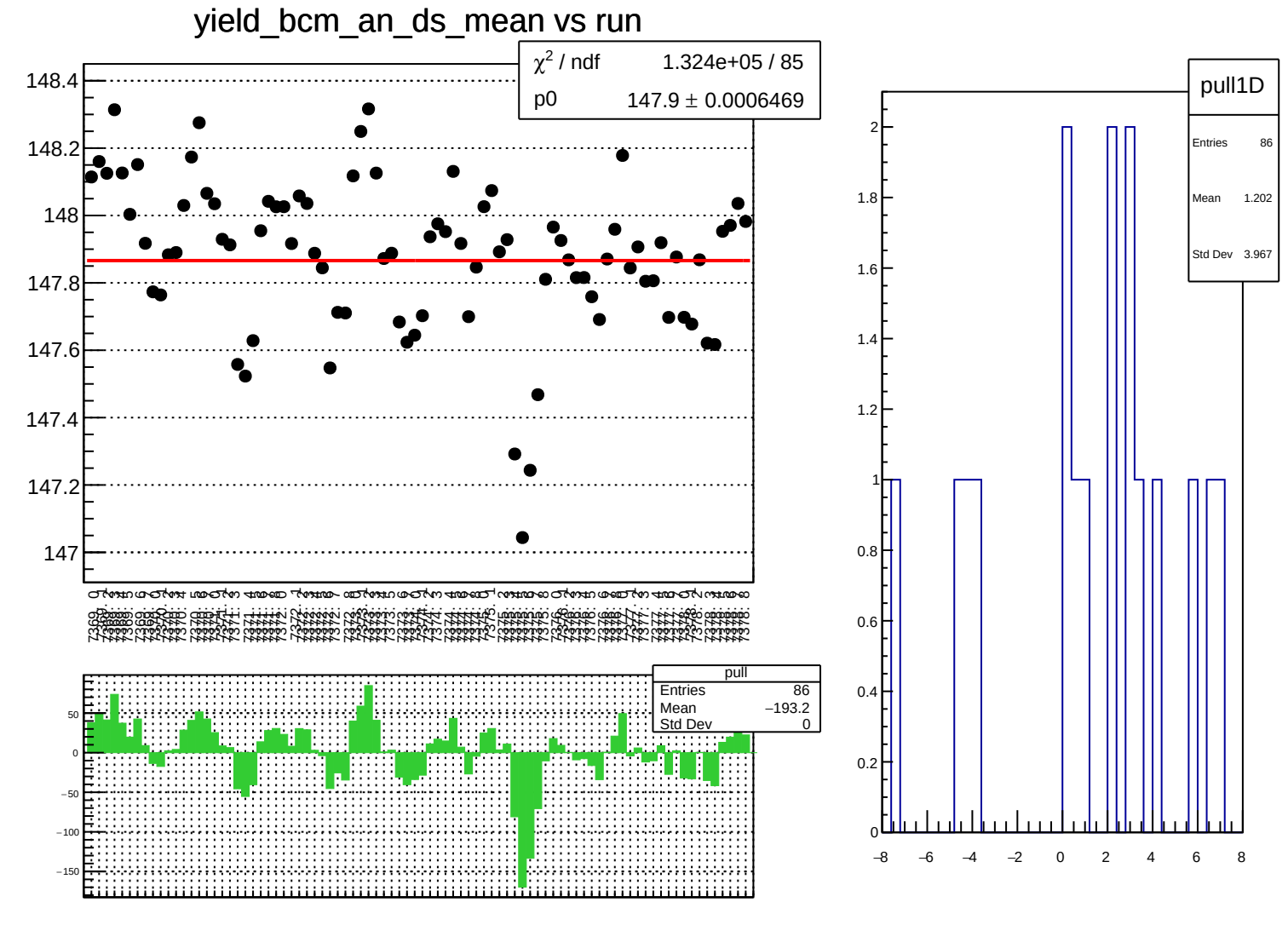

pull1D
Entries 86
Mean 0.2371
Std Dev 4.404
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

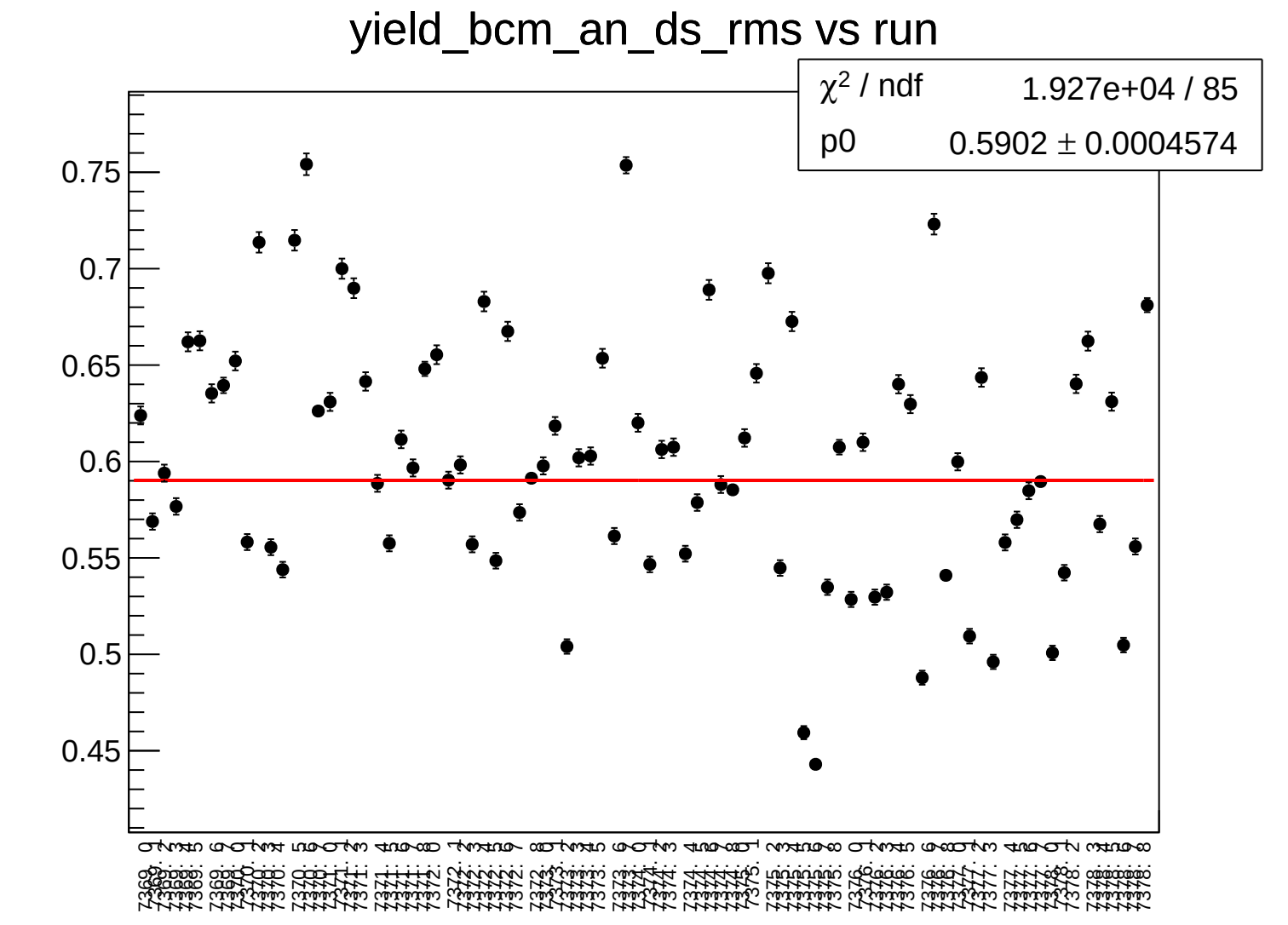

yield_bcm_target_rms vs run
χ² / ndf 1.944e+04 / 85
p0 0.5914 ± 0.0004584
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

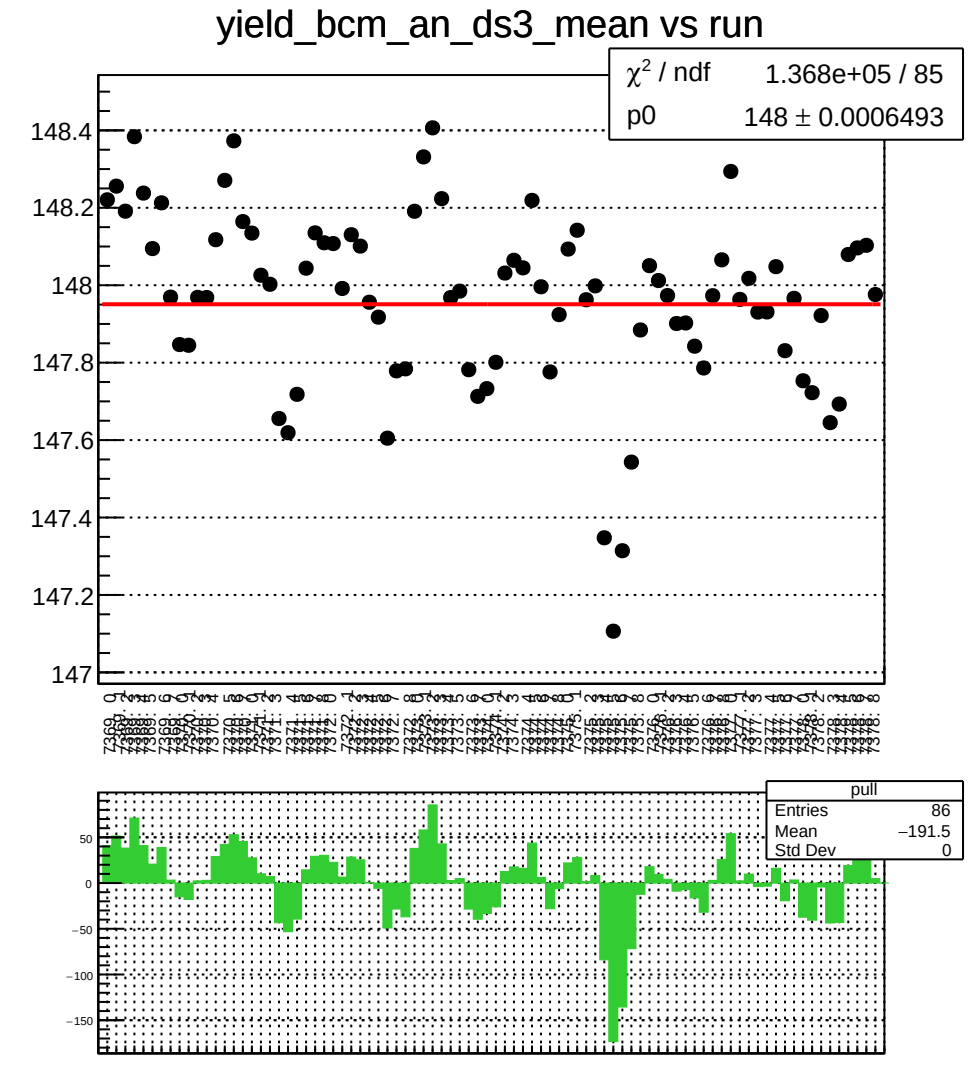

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 9.168e+07 / 85
p0 −9.05e+04 ± 6.456
0
−50
−100
−150
−200
pull
Entries 86
Mean 99.01
Std Dev 25.04
2000
1500
1000
500
0
−500
−1000
−1500
−2000

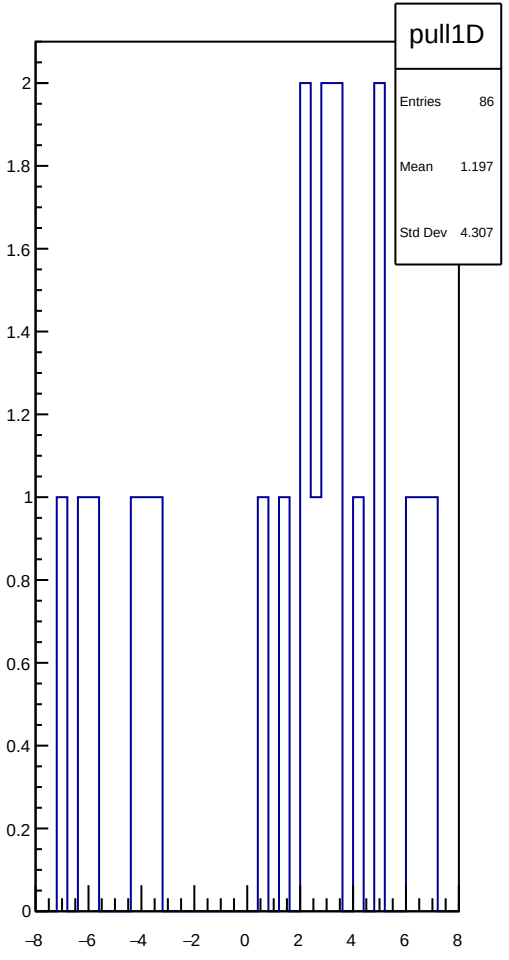

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

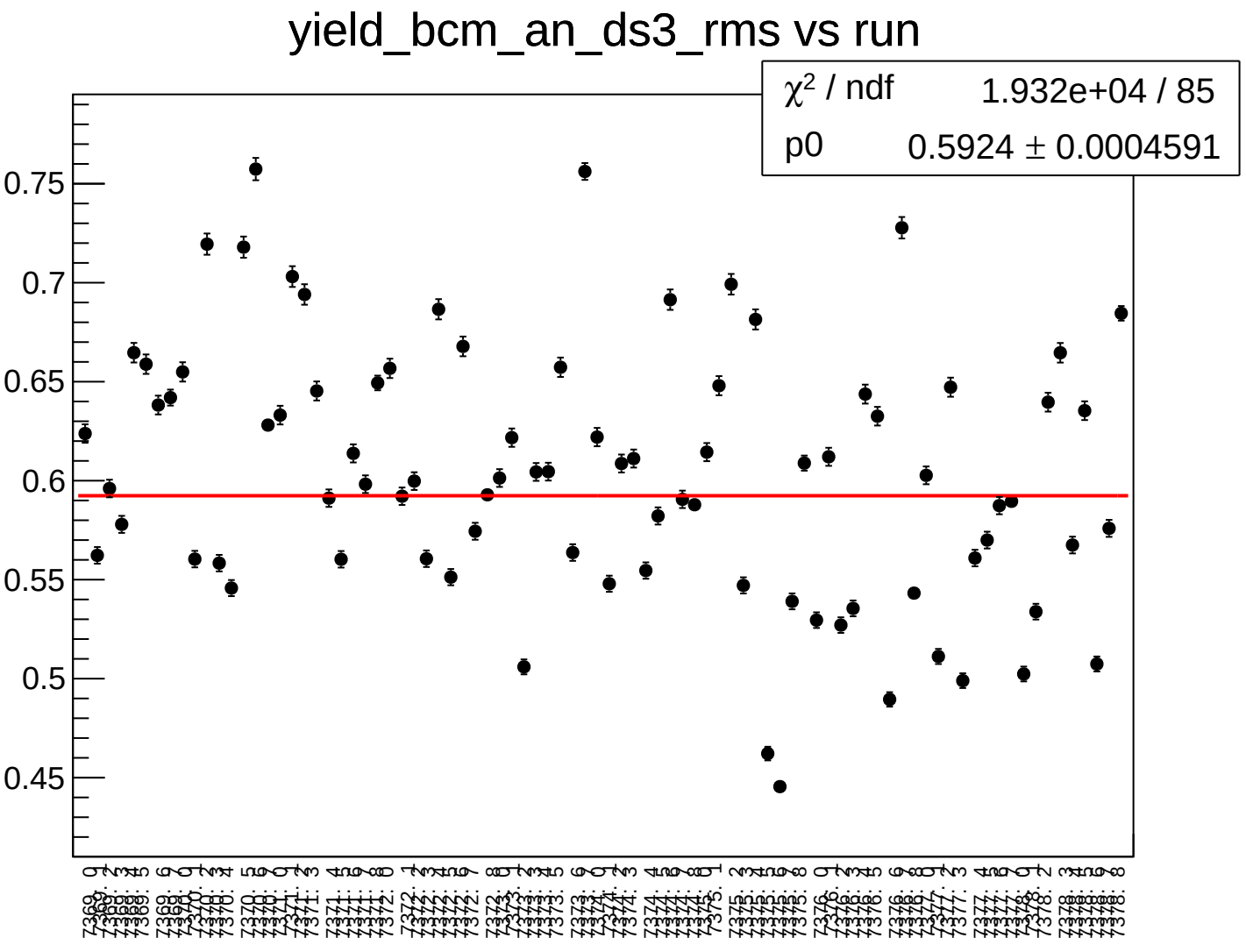

yield_bcm_an_diff_rms vs run
χ² / ndf 3.455e+05 / 85
p0 5281 ± 4.565
35000
30000
25000
20000
15000
10000
5000

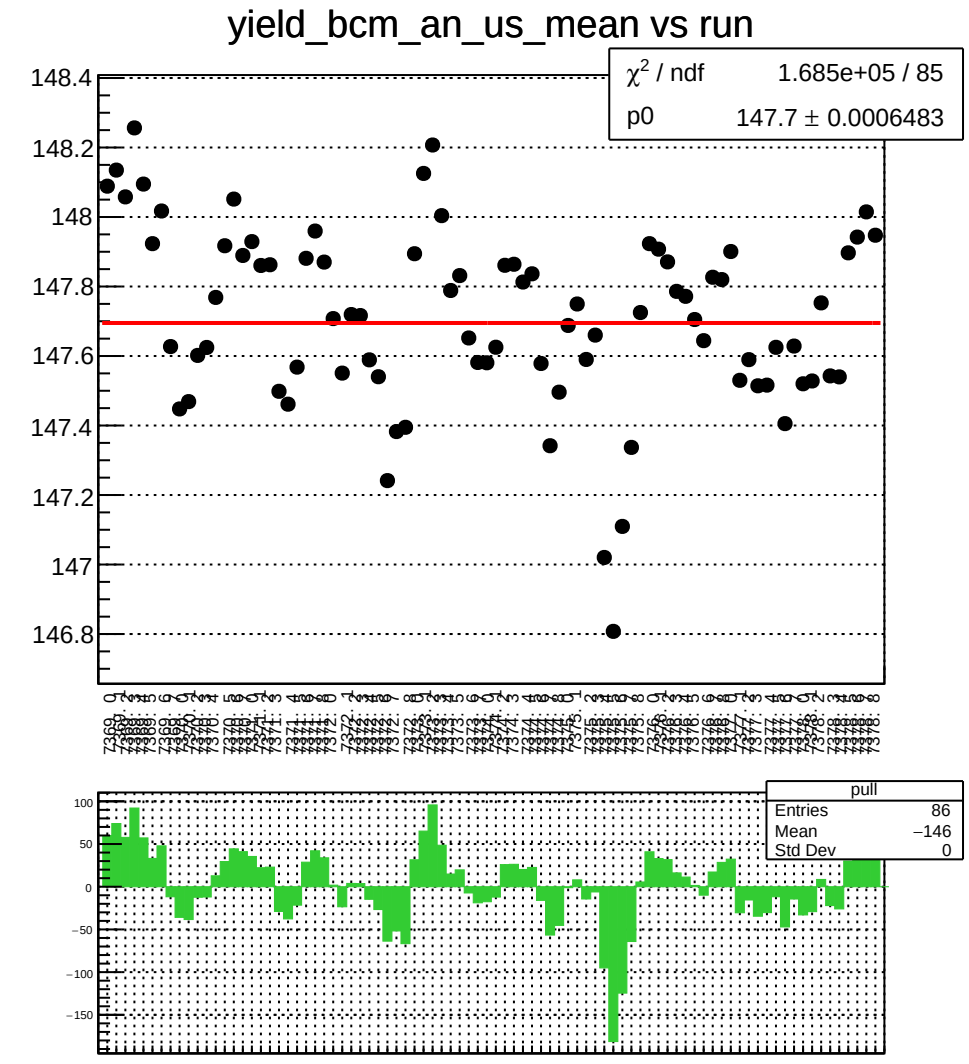

yield_bcm_an_ds_mean vs run
χ² / ndf 1.324e+05 / 85
p0 147.9 ± 0.0006469
148.4
148.2
148
147.8
147.6
147.4
147.2
147
pull
Entries 86
Mean −193.2
Std Dev 0
50
0
−50
−100
−150
pull1D
Entries 86
Mean 1.202
Std Dev 3.967
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

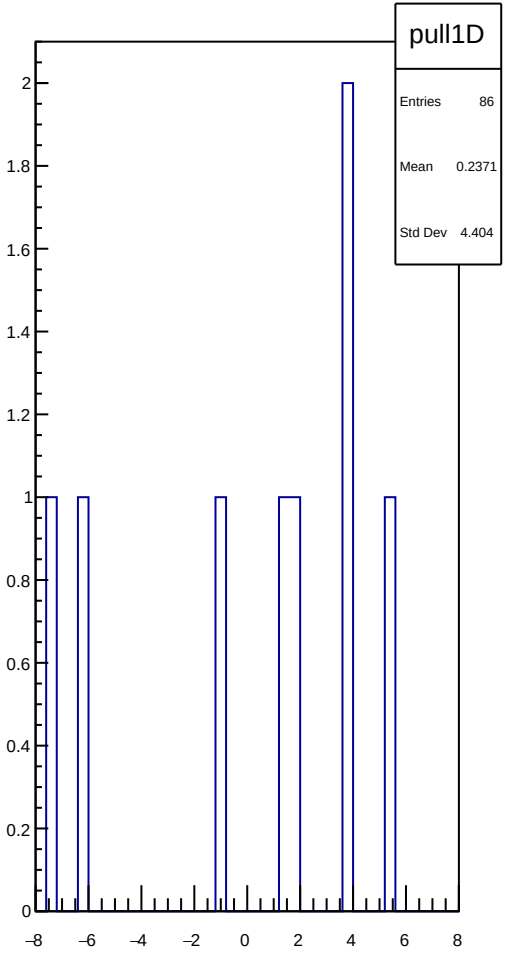

yield_bcm_an_ds_rms vs run
χ² / ndf 1.927e+04 / 85
p0 0.5902 ± 0.0004574
0.75
0.7
0.65
0.6
0.55
0.5
0.45

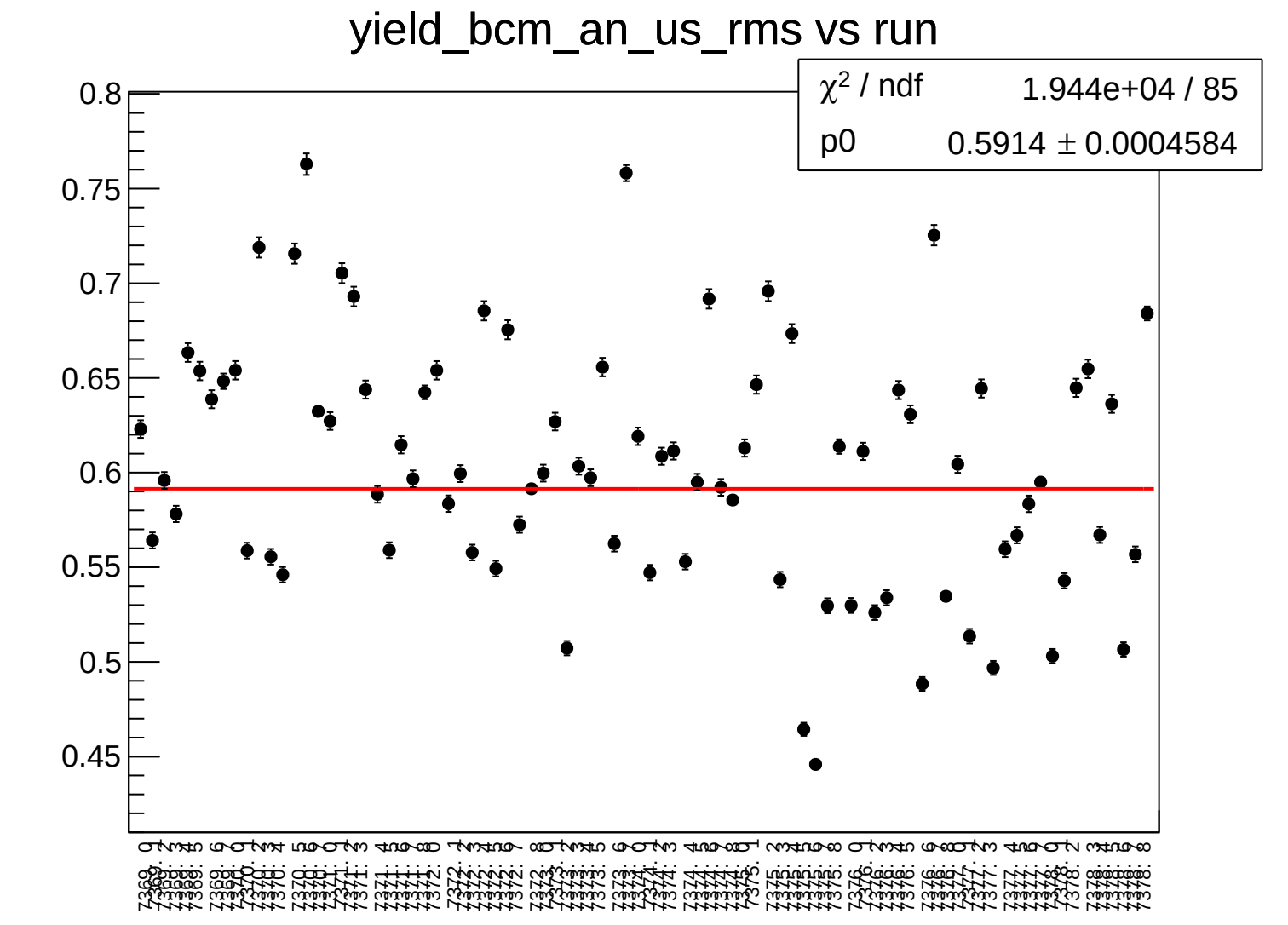

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.368e+05 / 85
p0 148 ± 0.0006493
148.4
148.2
148
147.8
147.6
147.4
147.2
147
pull
Entries 86
Mean −191.5
Std Dev 0
50
0
−50
−100
−150

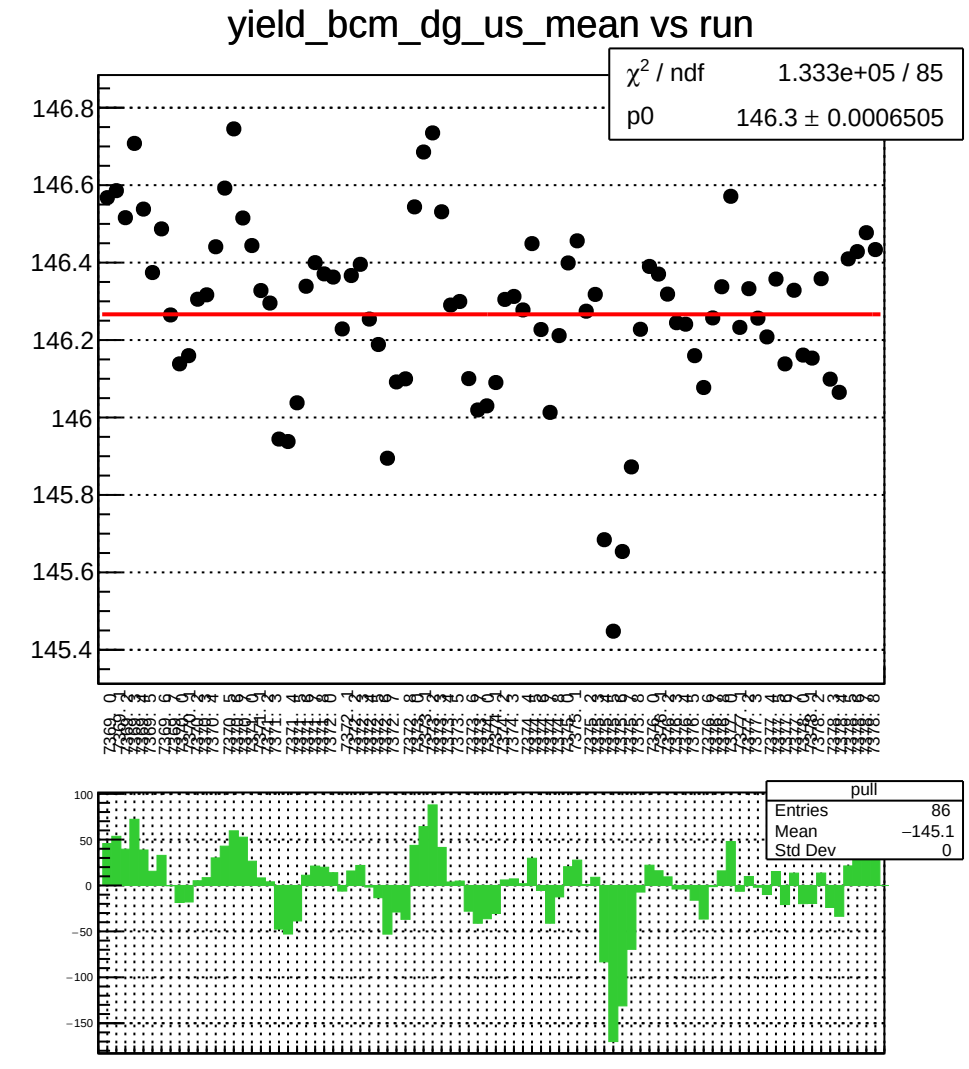

pull1D
Entries 86
Mean 1.197
Std Dev 4.307
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

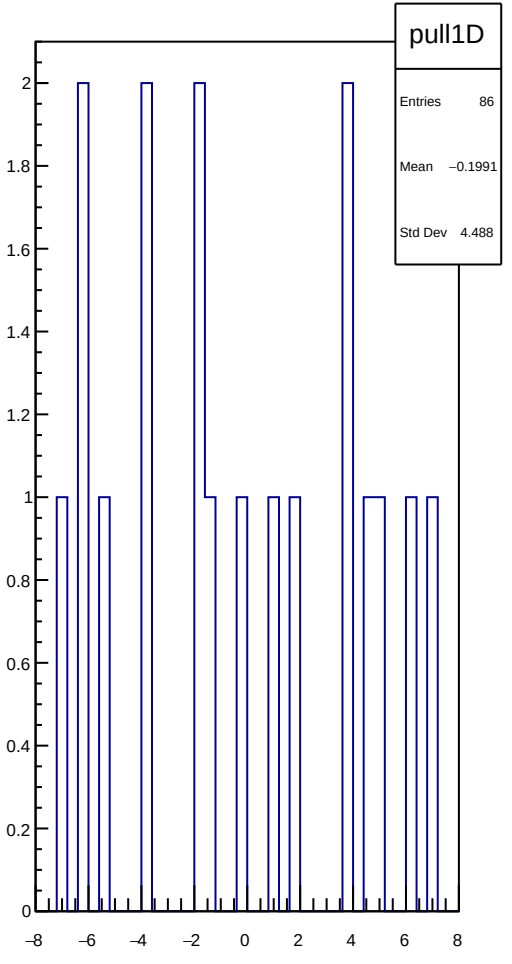

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.932e+04 / 85
p0 0.5924 ± 0.0004591
0.75
0.7
0.65
0.6
0.55
0.5
0.45

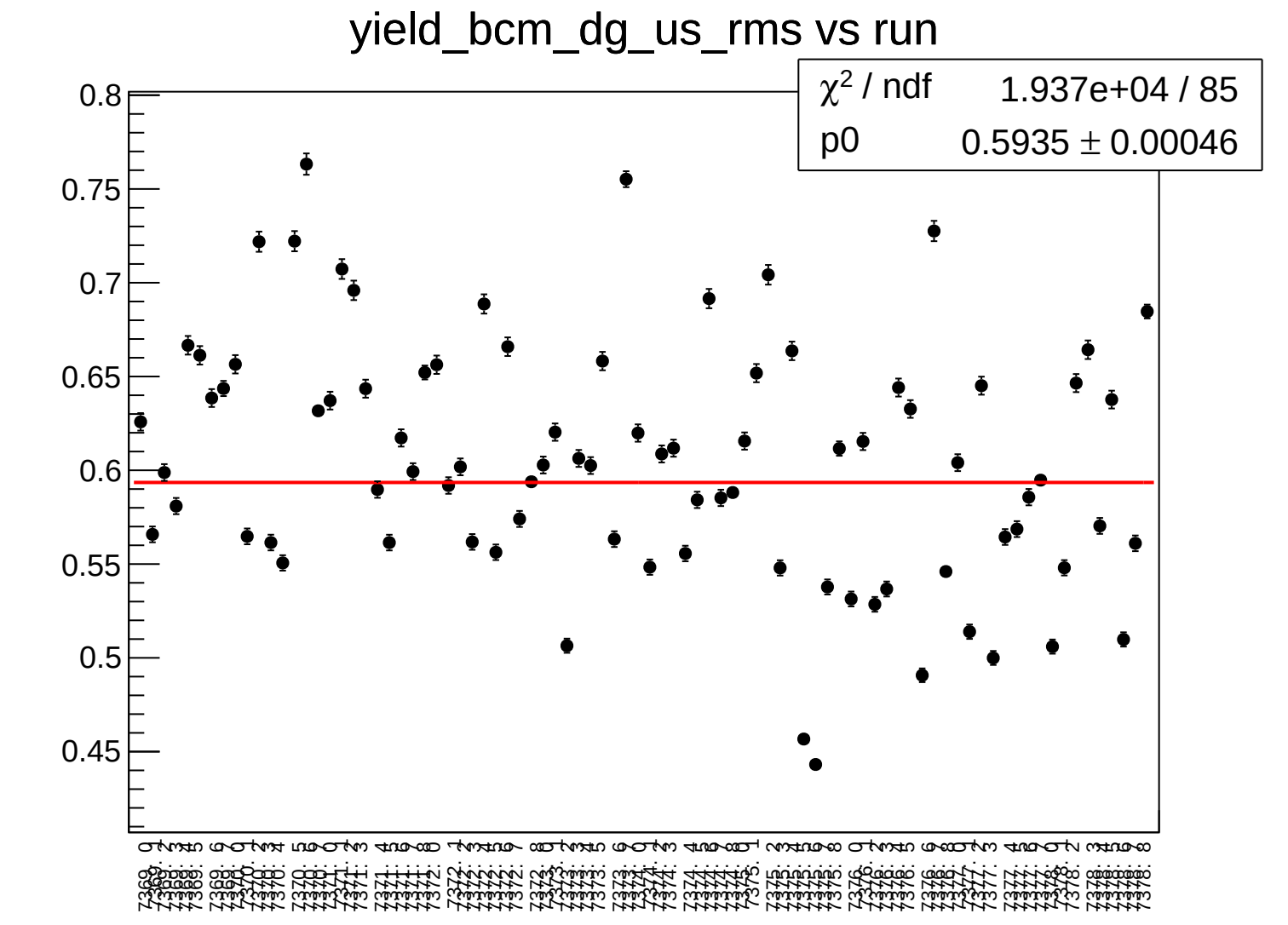

yield_bcm_an_us_mean vs run
χ² / ndf 1.685e+05 / 85
p0 147.7 ± 0.0006483
148.4
148.2
148
147.8
147.6
147.4
147.2
147
146.8
pull
Entries 86
Mean −146
Std Dev 0
100
50
0
−50
−100
−150

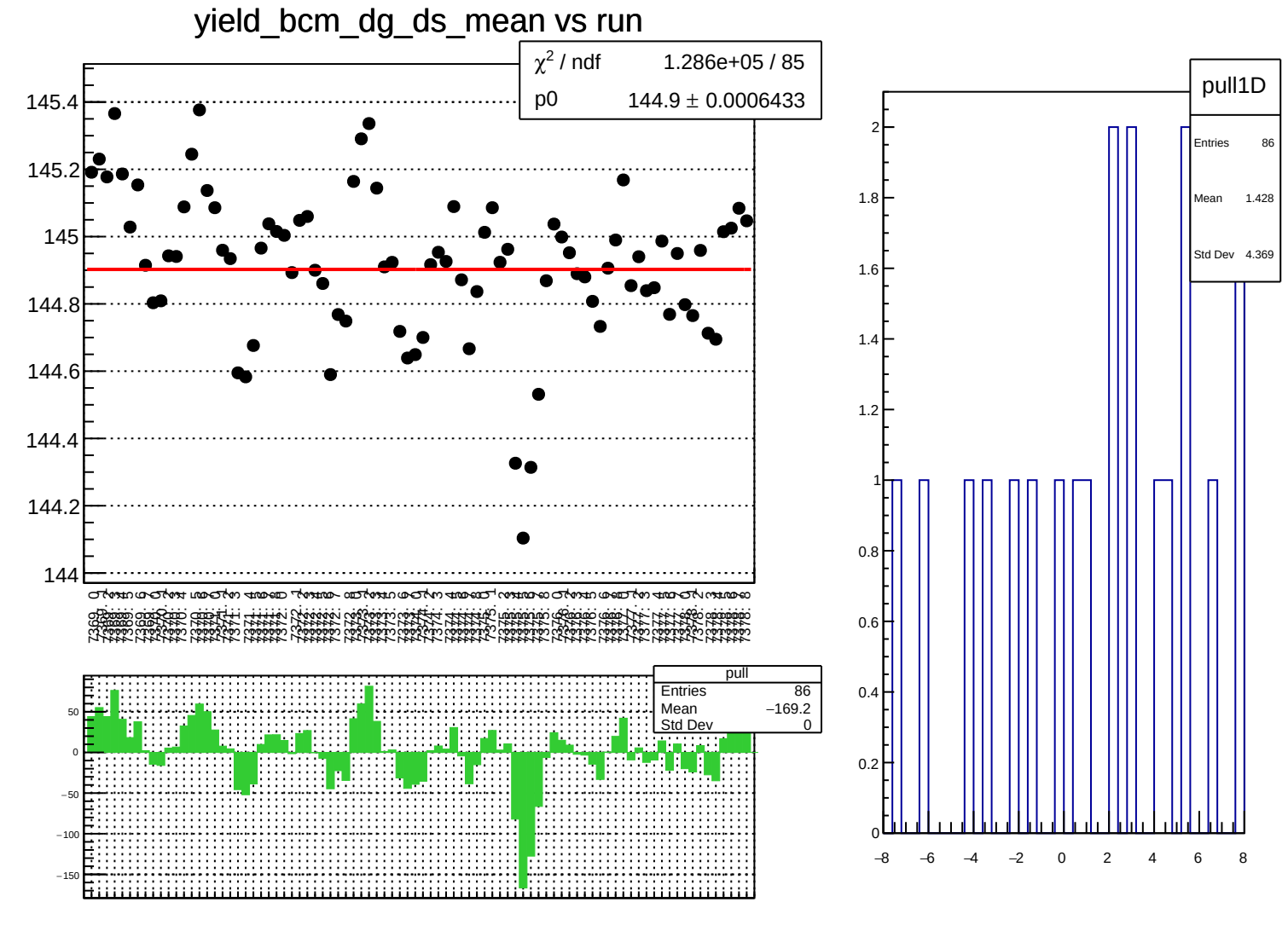

pull1D
Entries 86
Mean 0.2371
Std Dev 4.404
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

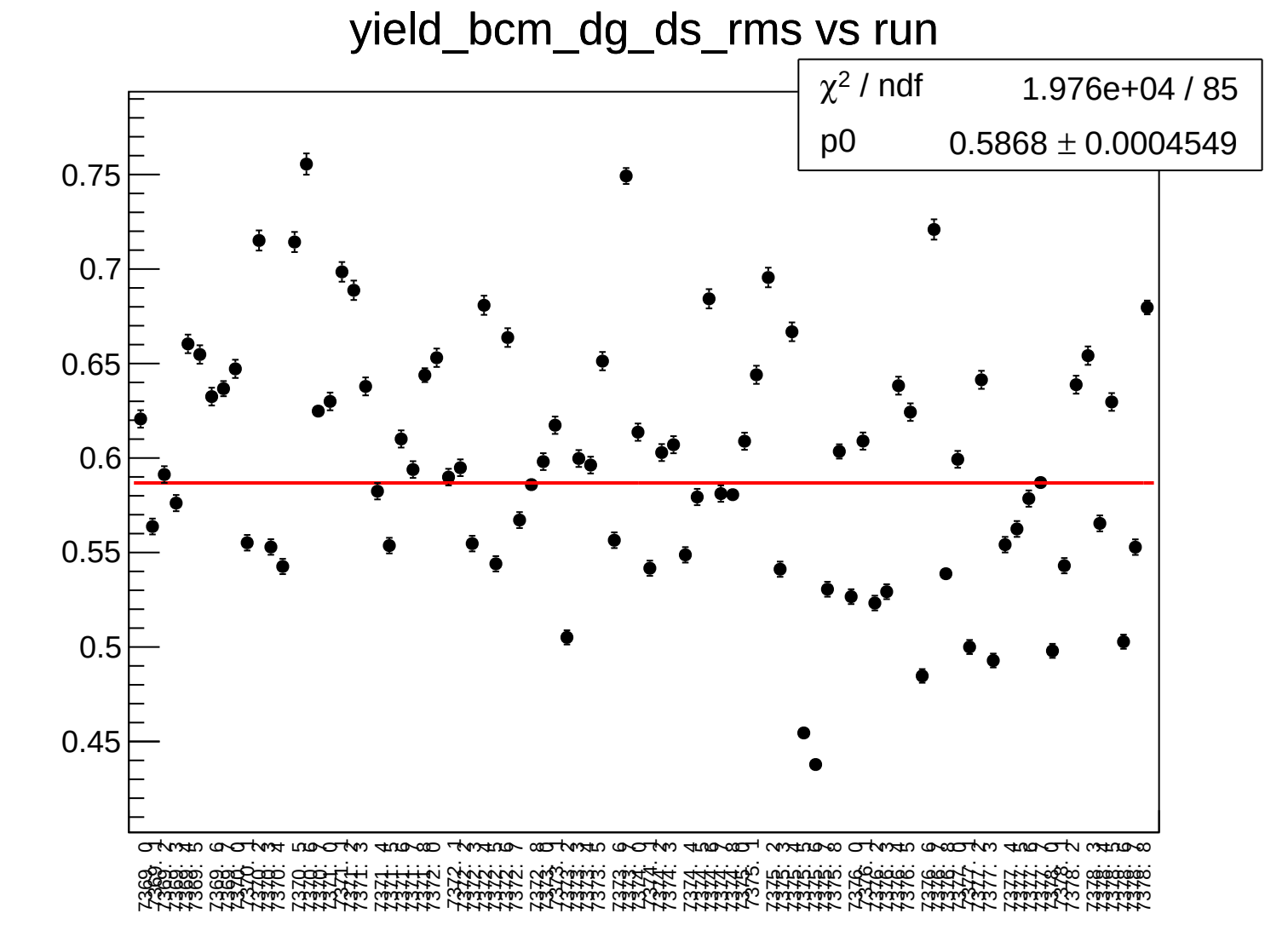

yield_bcm_an_us_rms vs run
χ² / ndf 1.944e+04 / 85
p0 0.5914 ± 0.0004584
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

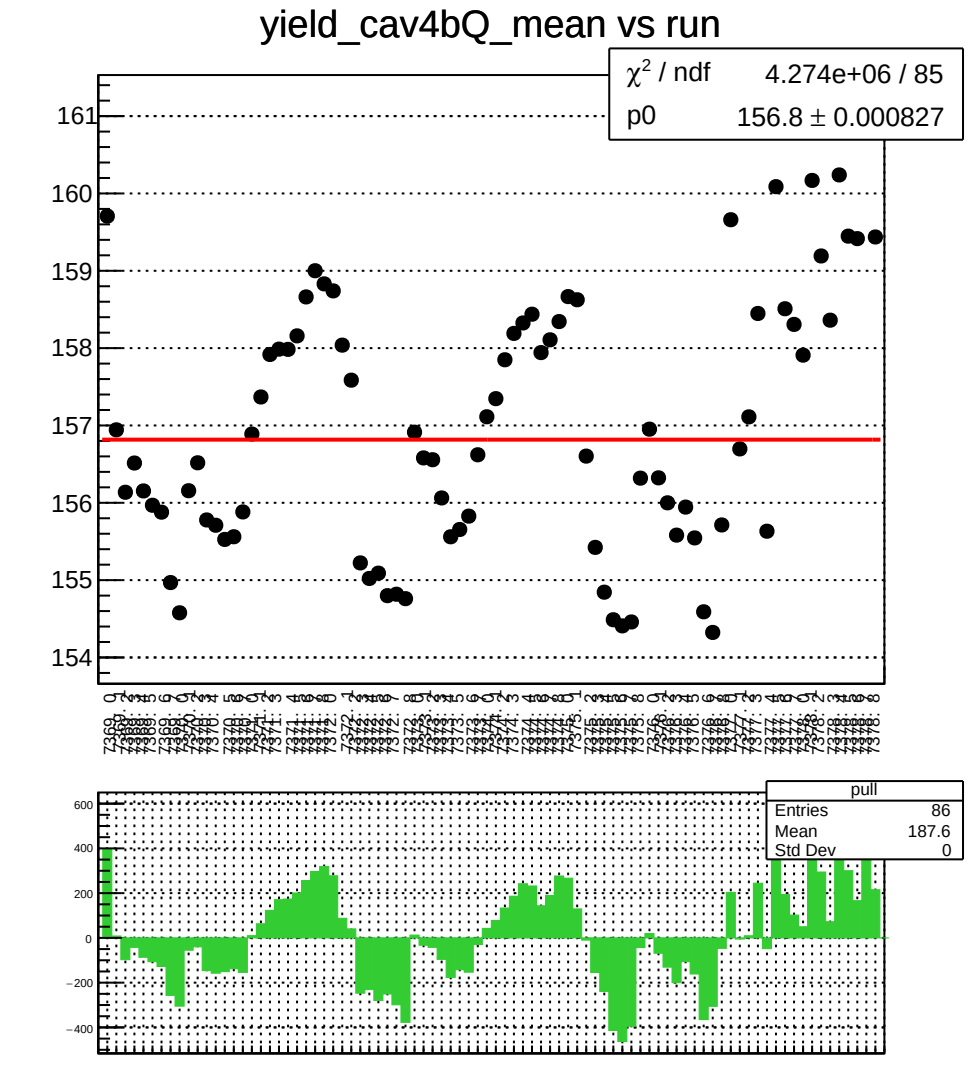

yield_bcm_dg_us_mean vs run
χ² / ndf 1.333e+05 / 85
p0 146.3 ± 0.0006505
146.8
146.6
146.4
146.2
146
145.8
145.6
145.4
pull
Entries 86
Mean −145.1
Std Dev 0
100
50
0
−50
−100
−150

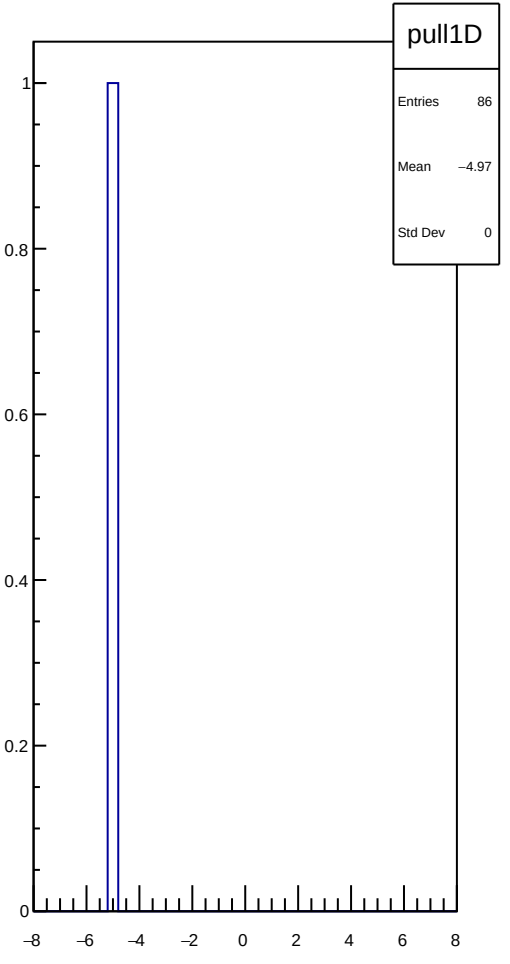

pull1D
Entries 86
Mean −0.1991
Std Dev 4.488
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

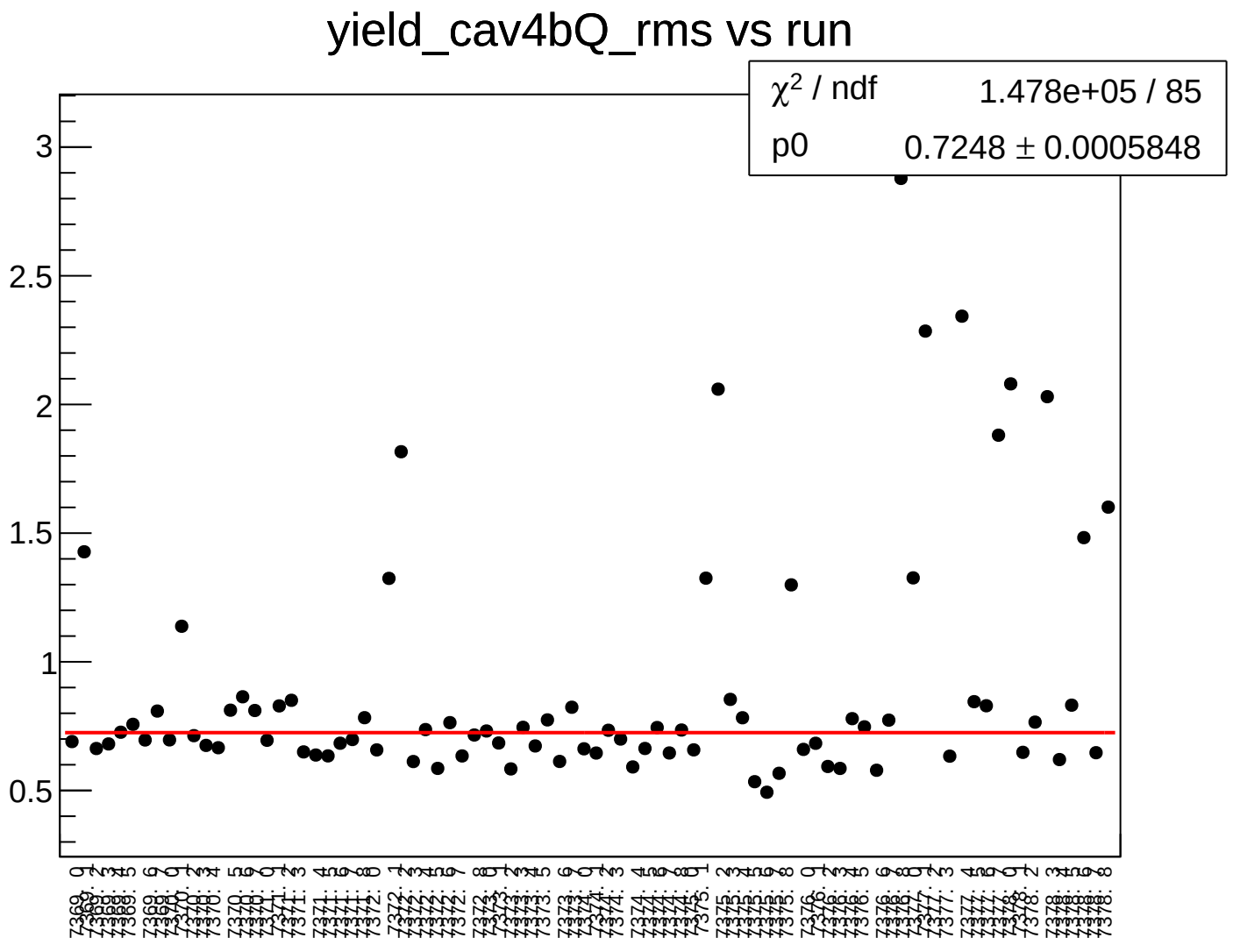

yield_bcm_dg_us_rms vs run
χ² / ndf 1.937e+04 / 85
p0 0.5935 ± 0.00046
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

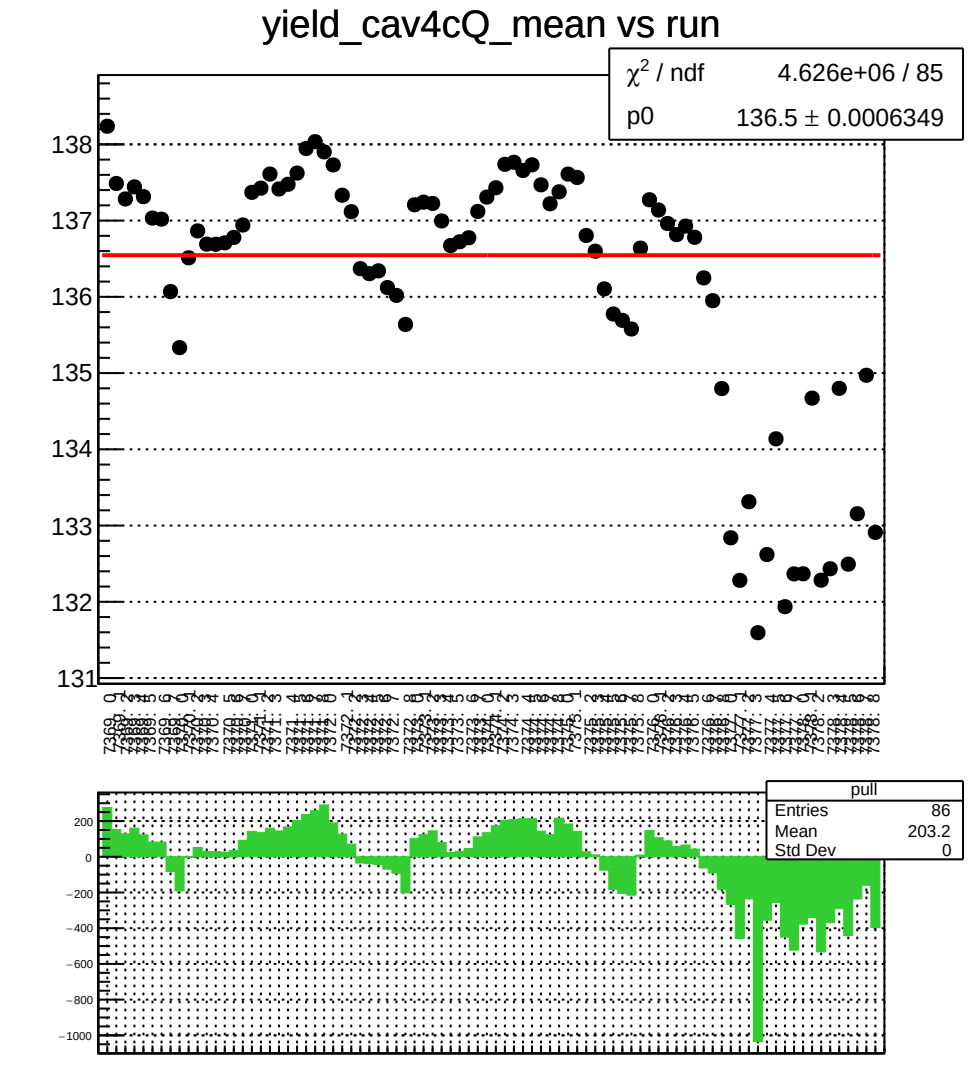

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.286e+05 / 85
p0 144.9 ± 0.0006433
145.4
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 86
Mean −169.2
Std Dev 0
50
0
−50
−100
−150
pull1D
Entries 86
Mean 1.428
Std Dev 4.369
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

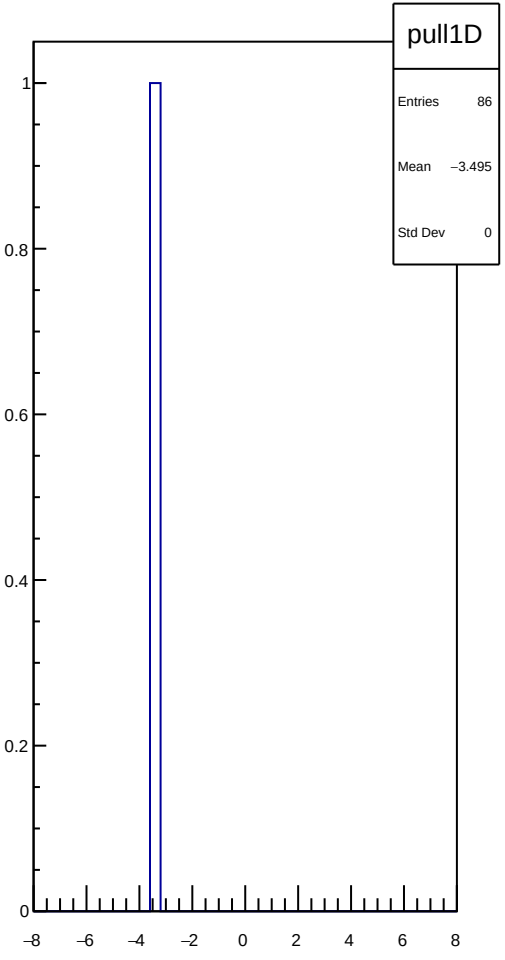

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.976e+04 / 85
p0 0.5868 ± 0.0004549
0.75
0.7
0.65
0.6
0.55
0.5
0.45

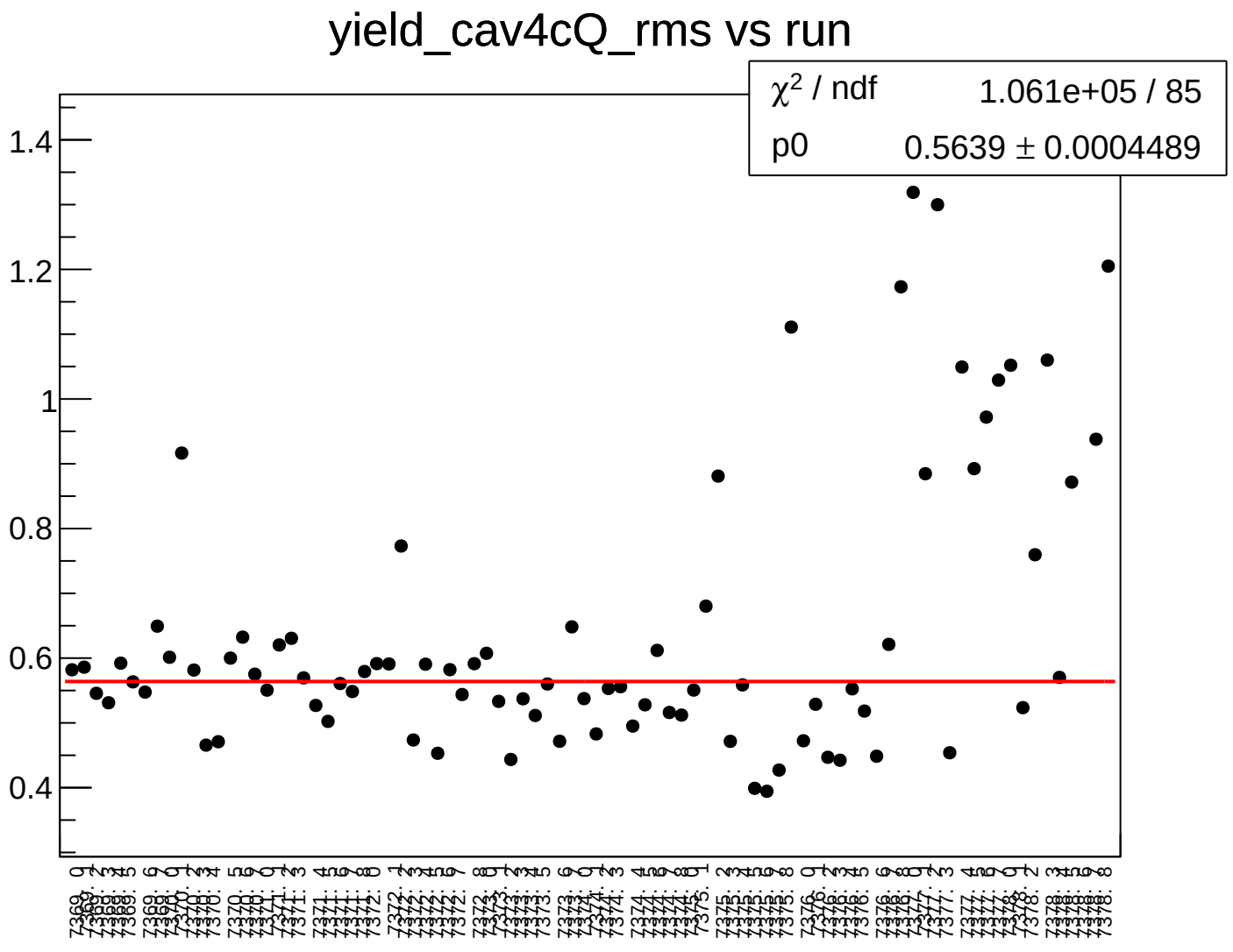

yield_cav4bQ_mean vs run
χ² / ndf 4.274e+06 / 85
p0 156.8 ± 0.000827
161
160
159
158
157
156
155
154
pull
Entries 86
Mean 187.6
Std Dev 0
600
400
200
0
−200
−400

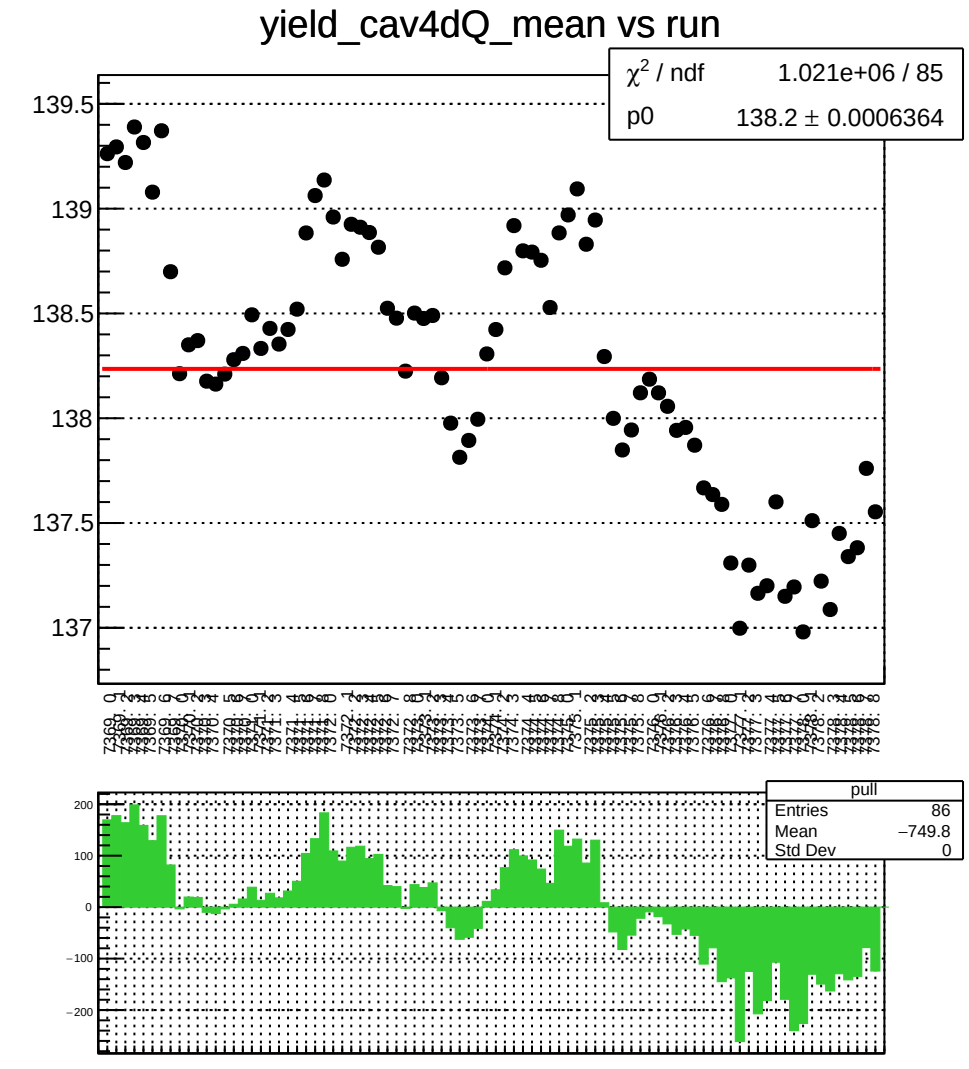

pull1D
Entries 86
Mean −4.97
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

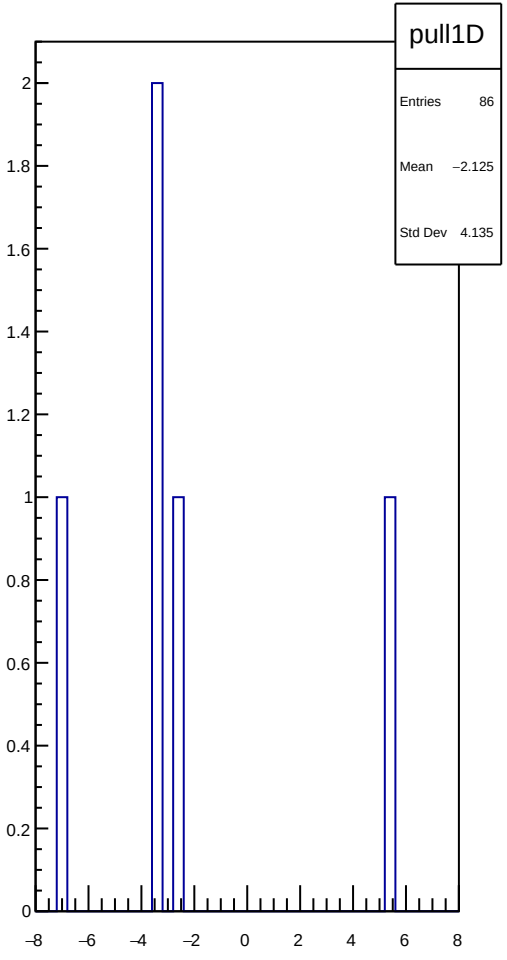

yield_cav4bQ_rms vs run
χ² / ndf 1.478e+05 / 85
p0 0.7248 ± 0.0005848
3
2.5
2
1.5
1
0.5

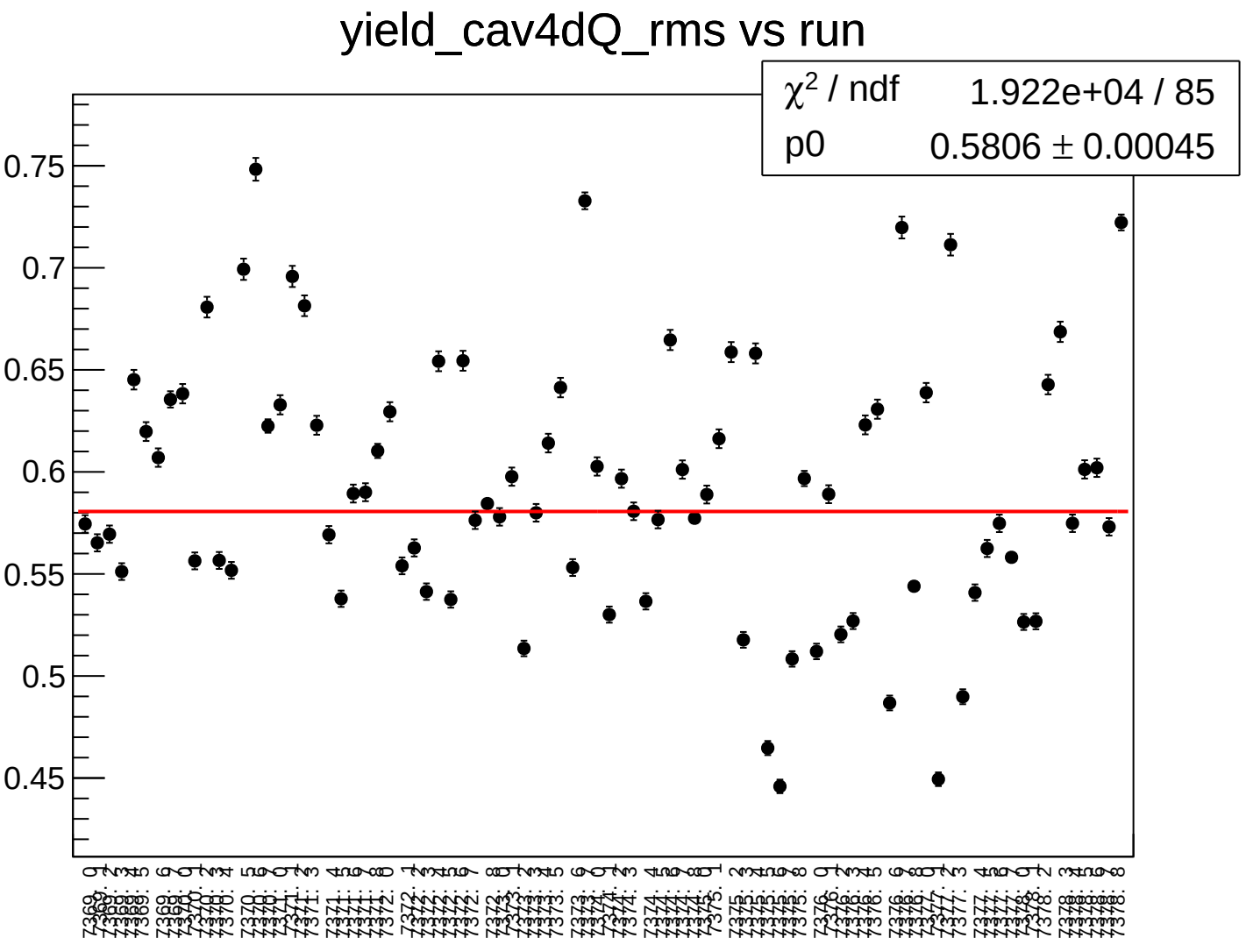

yield_cav4cQ_mean vs run
χ² / ndf 4.626e+06 / 85
p0 136.5 ± 0.0006349
pull
Entries 86
Mean 203.2
Std Dev 0

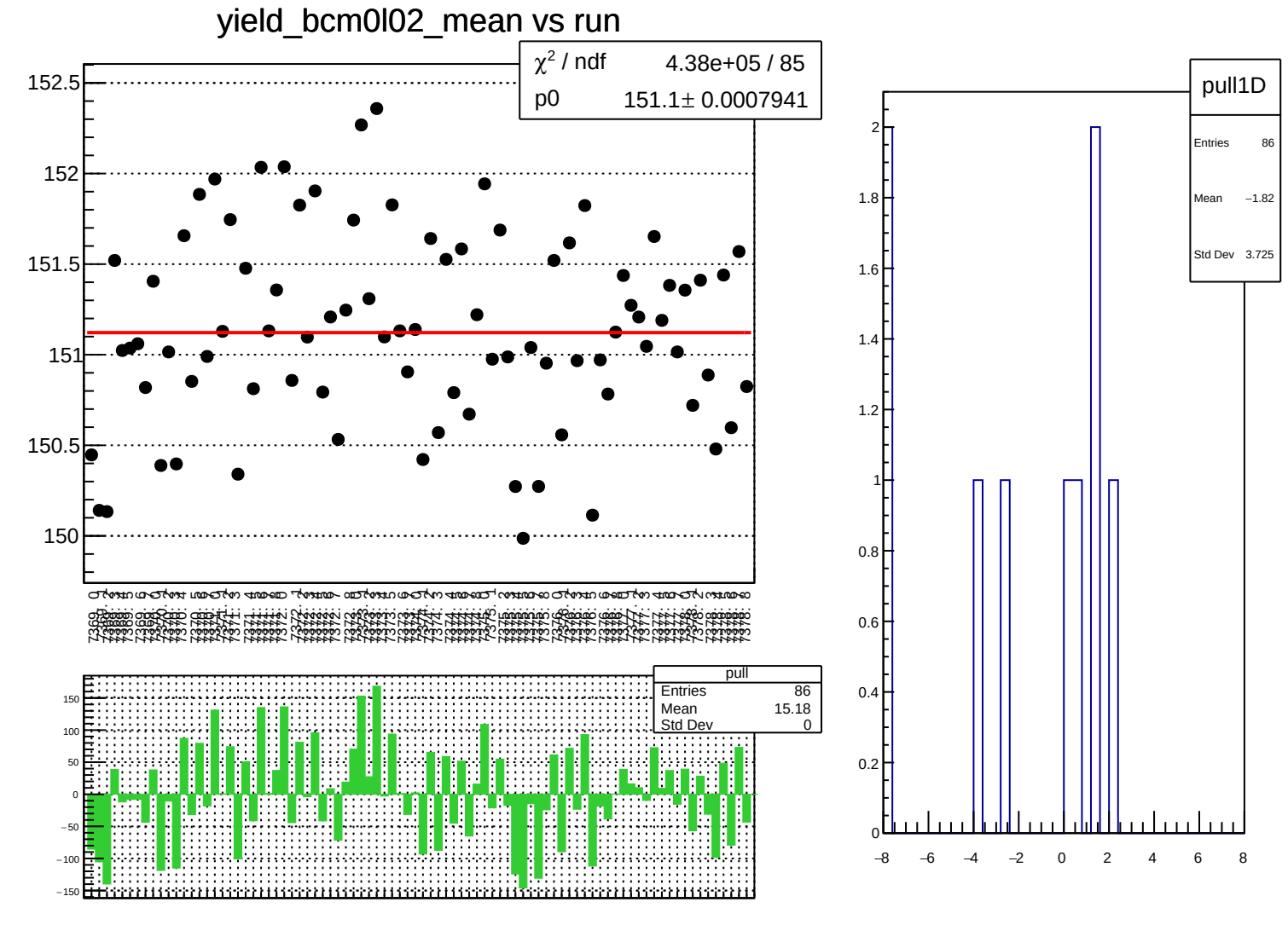

pull1D
Entries 86
Mean −3.495
Std Dev 0

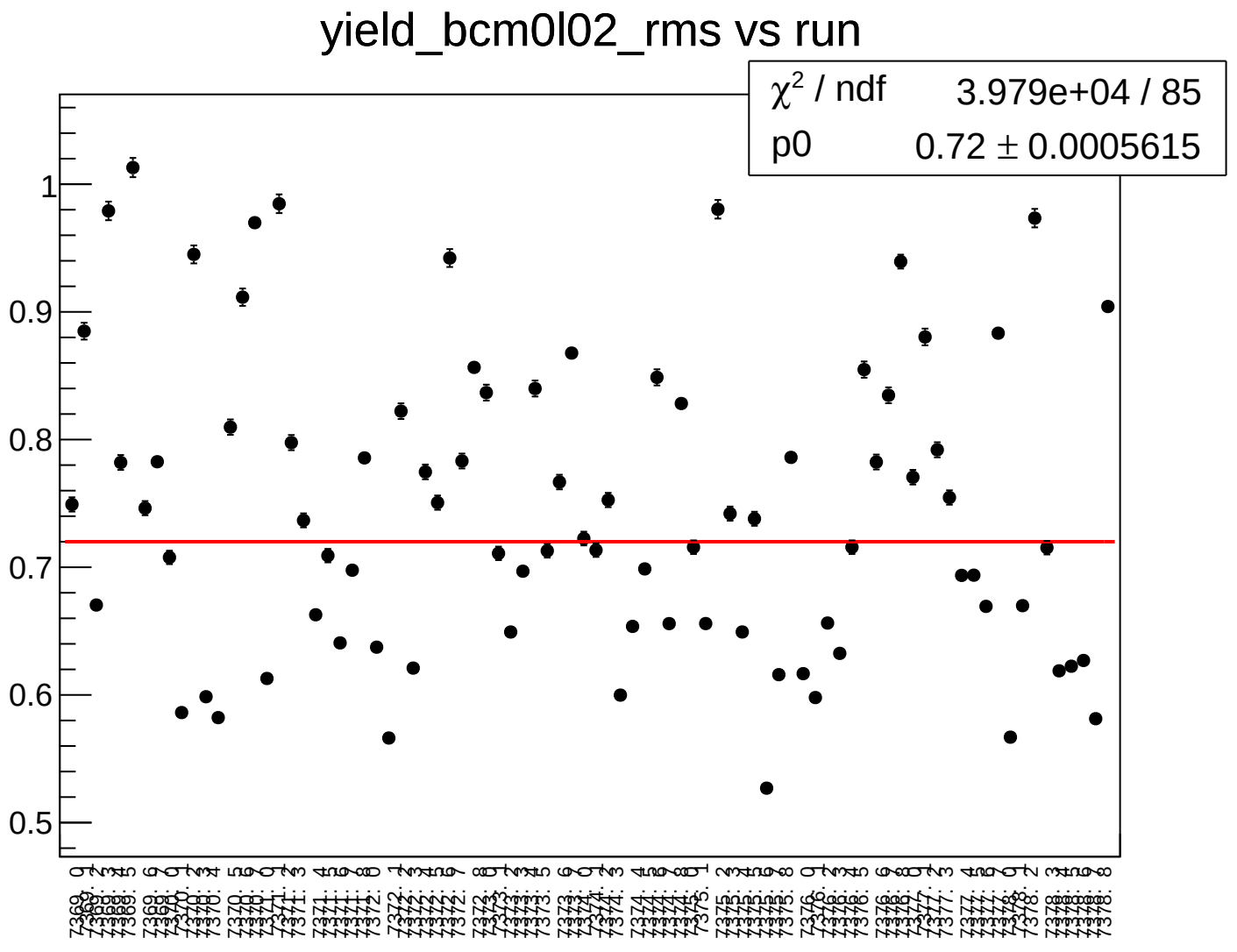

yield_cav4cQ_rms vs run
χ² / ndf 1.061e+05 / 85
p0 0.5639 ± 0.0004489
1.4
1.2
1
0.8
0.6
0.4

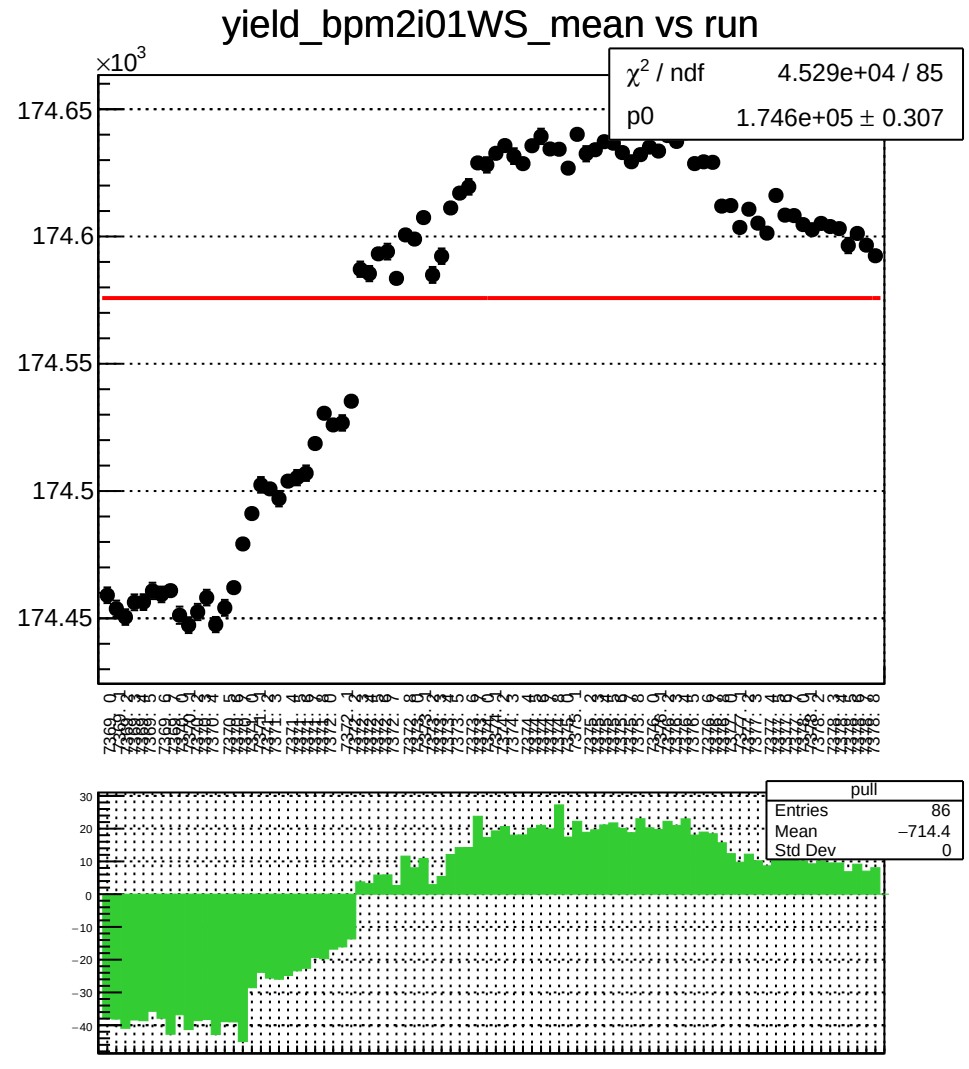

yield_cav4dQ_mean vs run
χ² / ndf 1.021e+06 / 85
p0 138.2 ± 0.0006364
pull
Entries 86
Mean −749.8
Std Dev 0

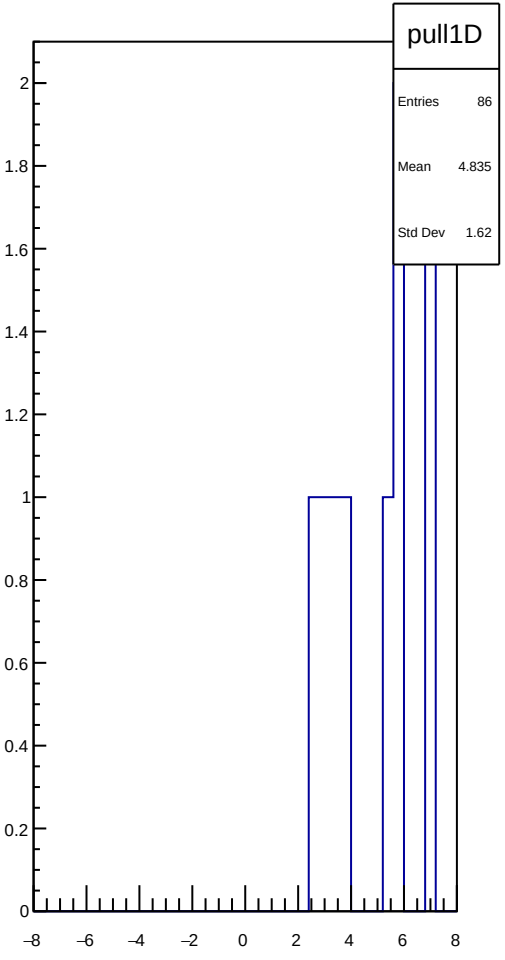

pull1D
Entries 86
Mean −2.125
Std Dev 4.135

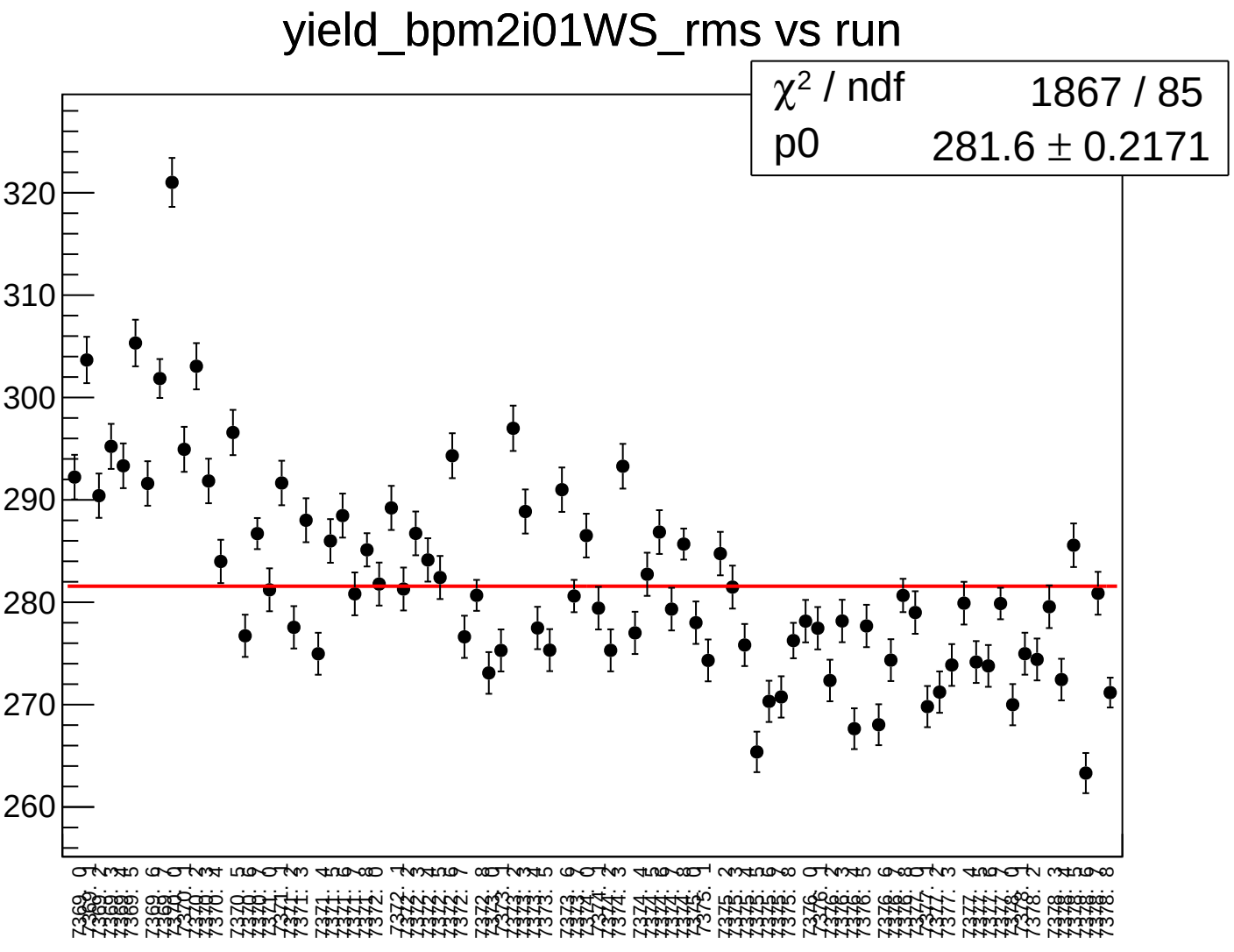

yield_cav4dQ_rms vs run
χ^2 / ndf 1.922e+04 / 85
p0 0.5806 ± 0.00045
0.75
0.7
0.65
0.6
0.55
0.5
0.45

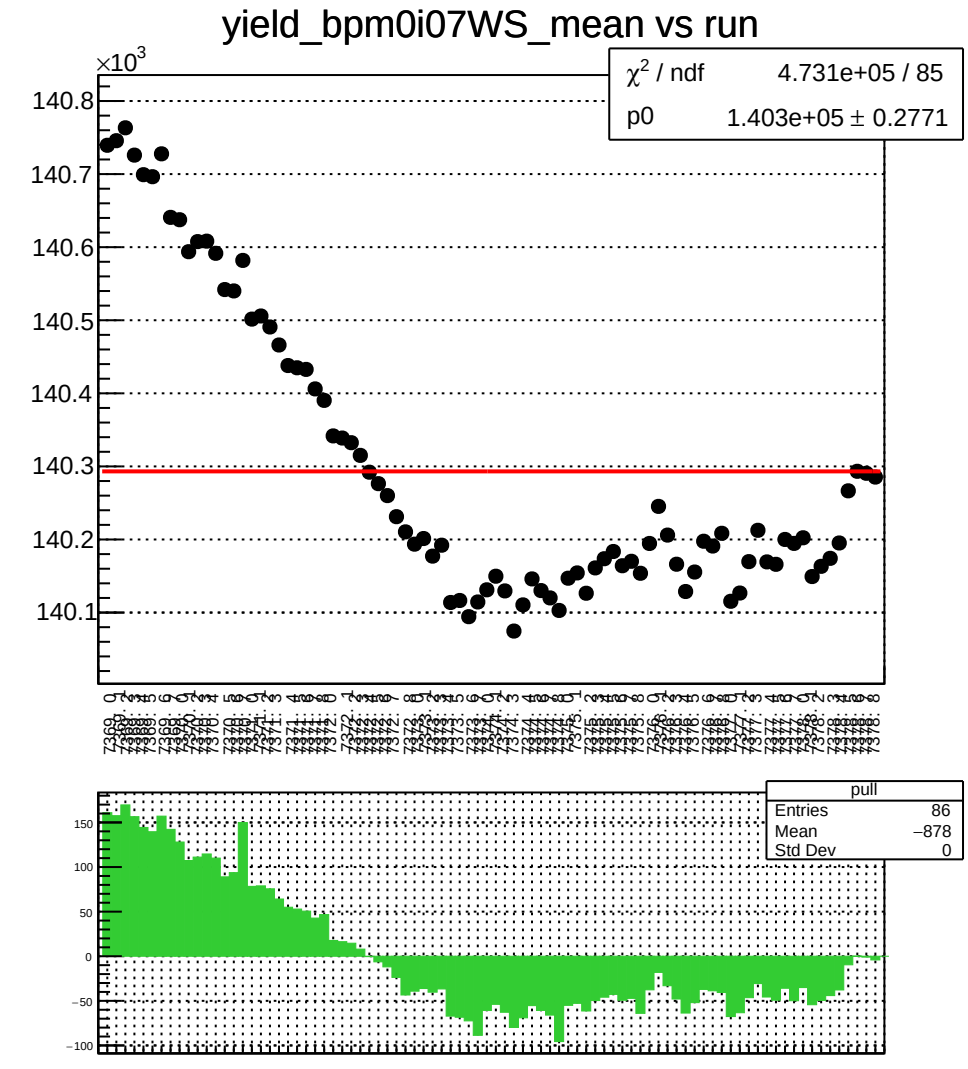

yield_bcm0l02_mean vs run
χ² / ndf 4.38e+05 / 85
p0 151.1± 0.0007941
152.5
152
151.5
151
150.5
150
pull
Entries 86
Mean 15.18
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 86
Mean −1.82
Std Dev 3.725
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

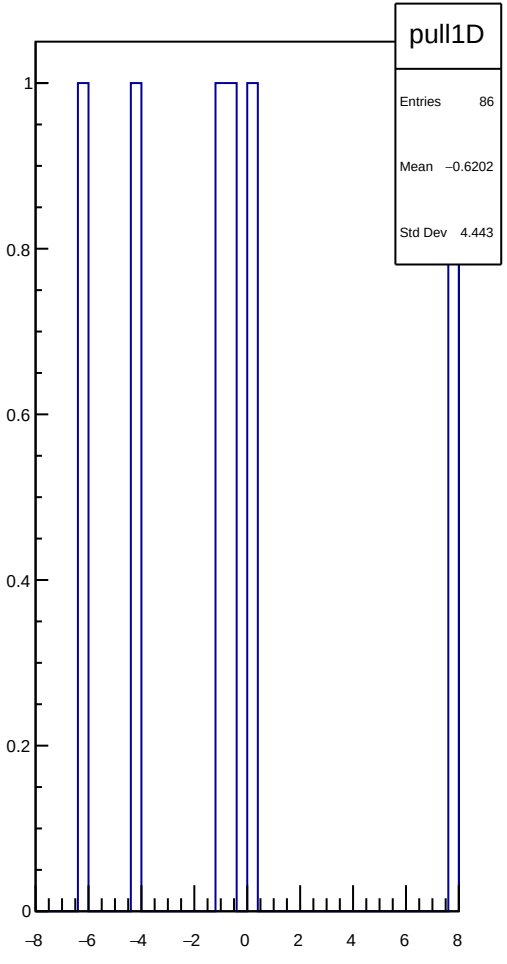

yield_bcm0l02_rms vs run
χ^2 / ndf 3.979e+04 / 85
p0 0.72 ± 0.0005615
1
0.9
0.8
0.7
0.6
0.5

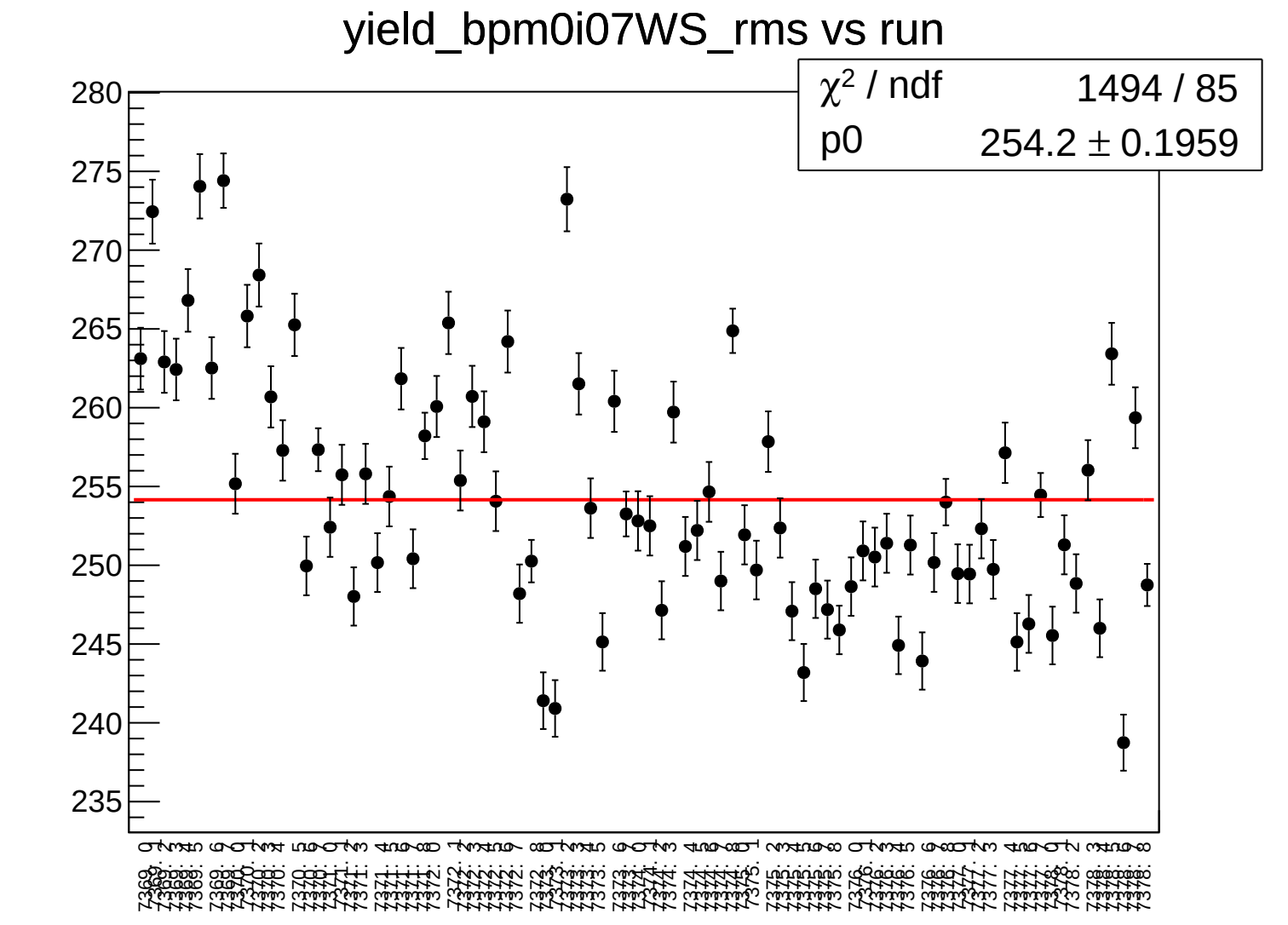

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4.529e+04 / 85
p0 1.746e+05 ± 0.307
174.65
174.6
174.55
174.5
174.45
pull
Entries 86
Mean −714.4
Std Dev 0
30
20
10
0
−10
−20
−30
−40

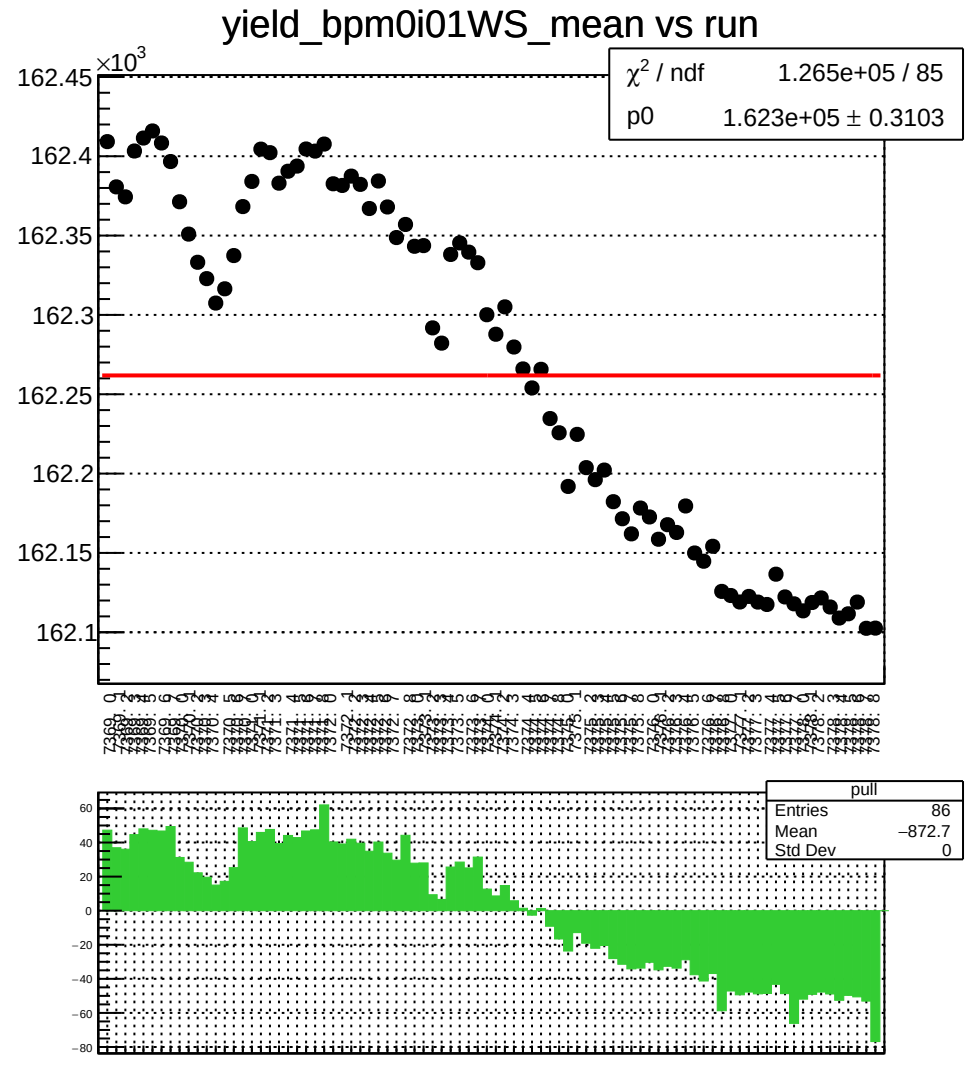

pull1D
Entries 86
Mean 4.835
Std Dev 1.62
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

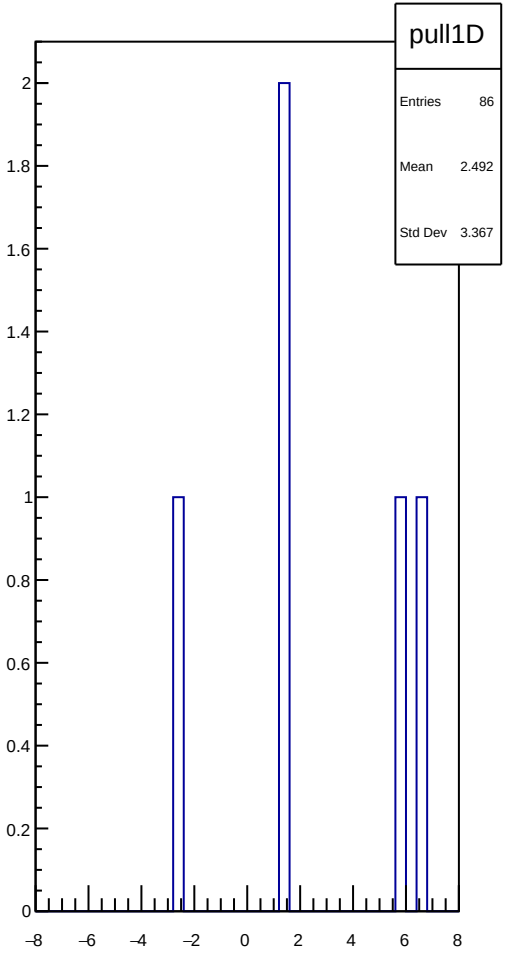

yield_bpm2i01WS_rms vs run
χ² / ndf 1867 / 85
p0 281.6 ± 0.2171
320
310
300
290
280
270
260

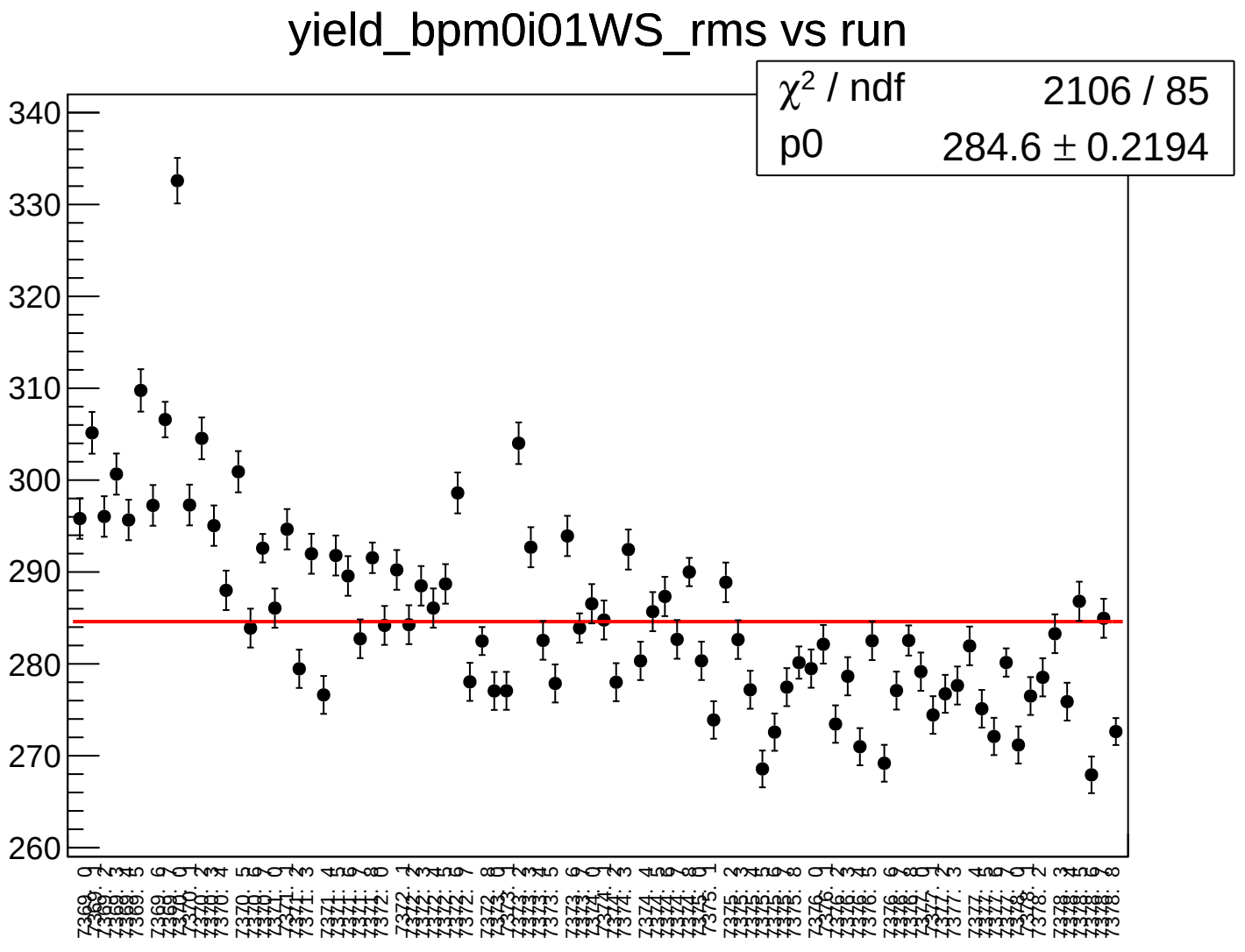

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.731e+05 / 85
p0 1.403e+05 ± 0.2771
140.8
140.7
140.6
140.5
140.4
140.3
140.2
140.1
pull
Entries 86
Mean −878
Std Dev 0
150
100
50
0
−50
−100

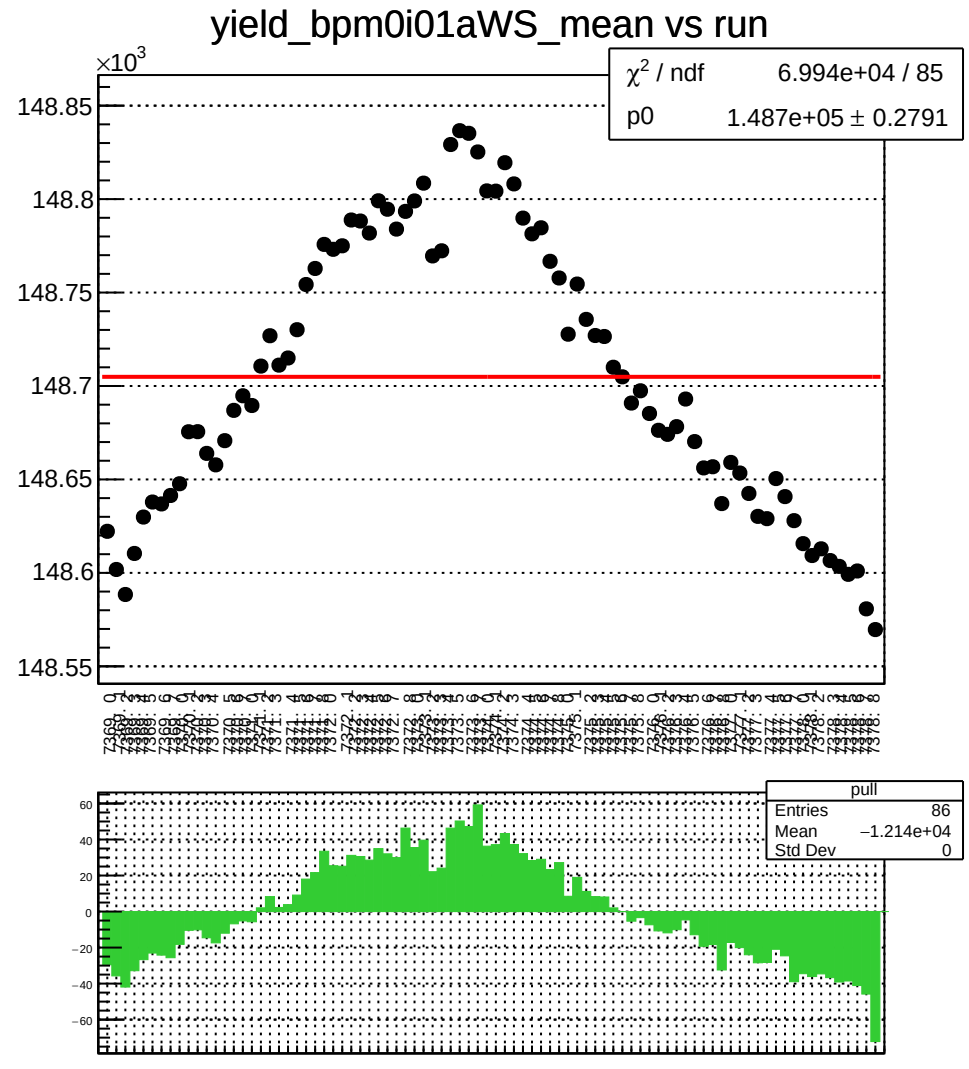

pull1D
Entries 86
Mean −0.6202
Std Dev 4.443
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

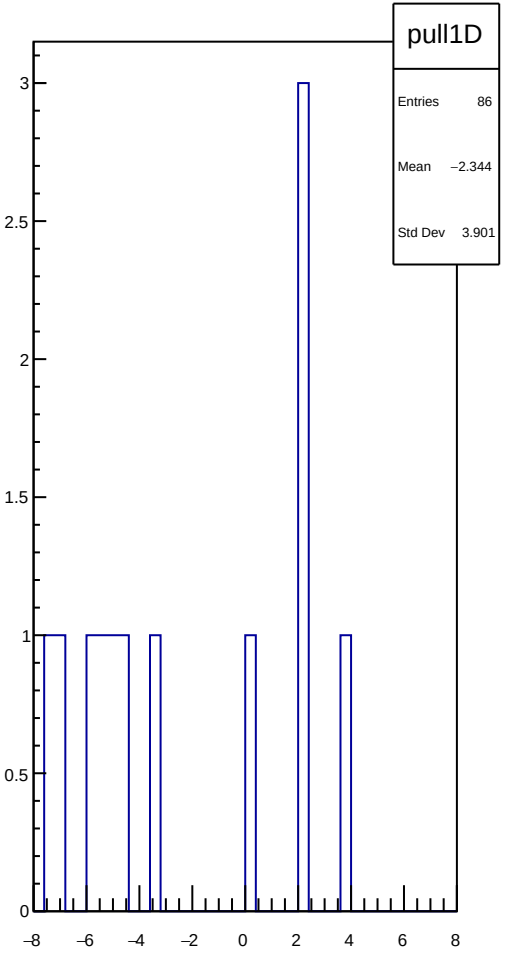

yield_bpm0i07WS_rms vs run
χ² / ndf 1494 / 85
p0 254.2 ± 0.1959
280
275
270
265
260
255
250
245
240
235

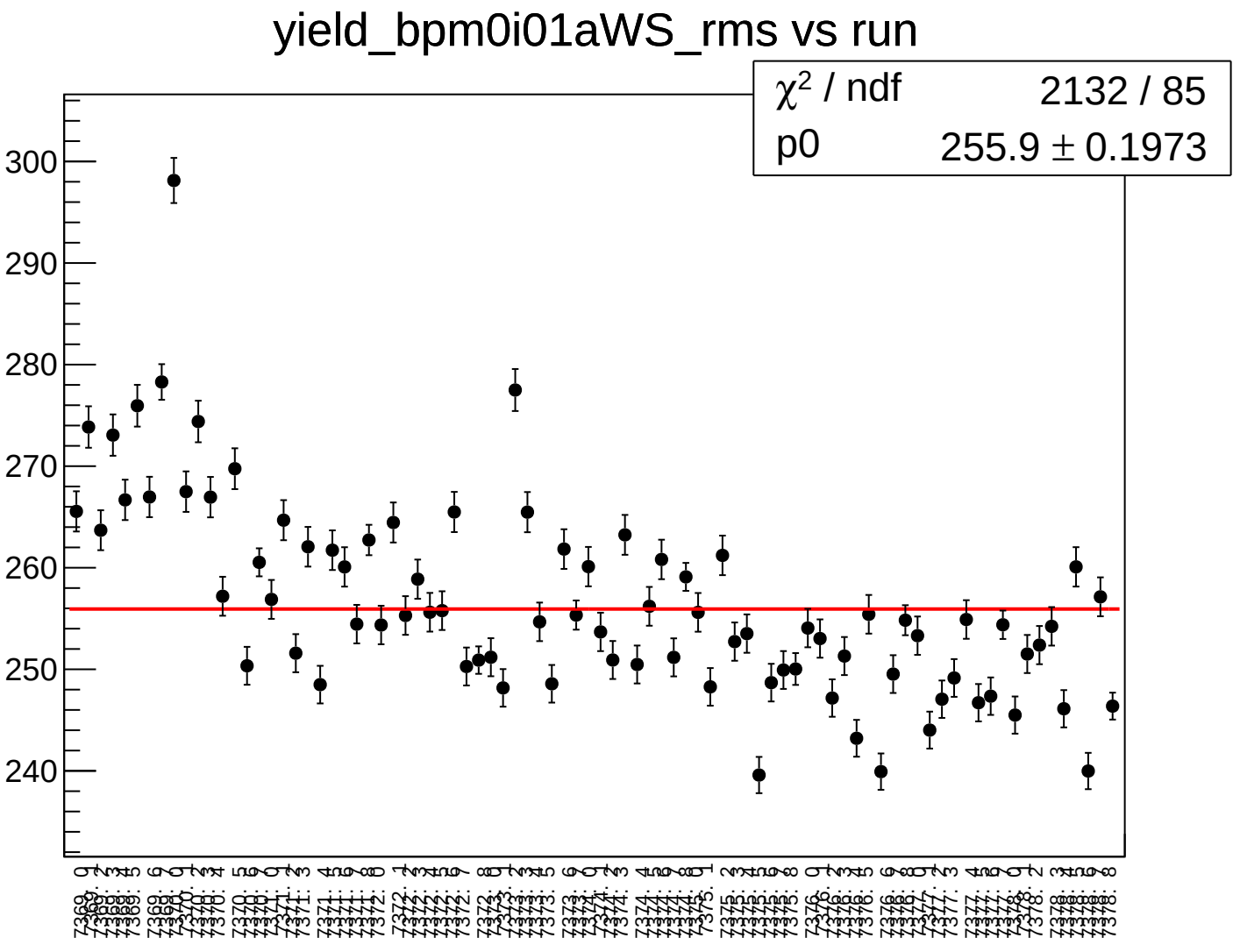

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.265e+05 / 85
p0 1.623e+05 ± 0.3103
162.45
162.4
162.35
162.3
162.25
162.2
162.15
162.1
pull
Entries 86
Mean −872.7
Std Dev 0
60
40
20
0
−20
−40
−60
−80

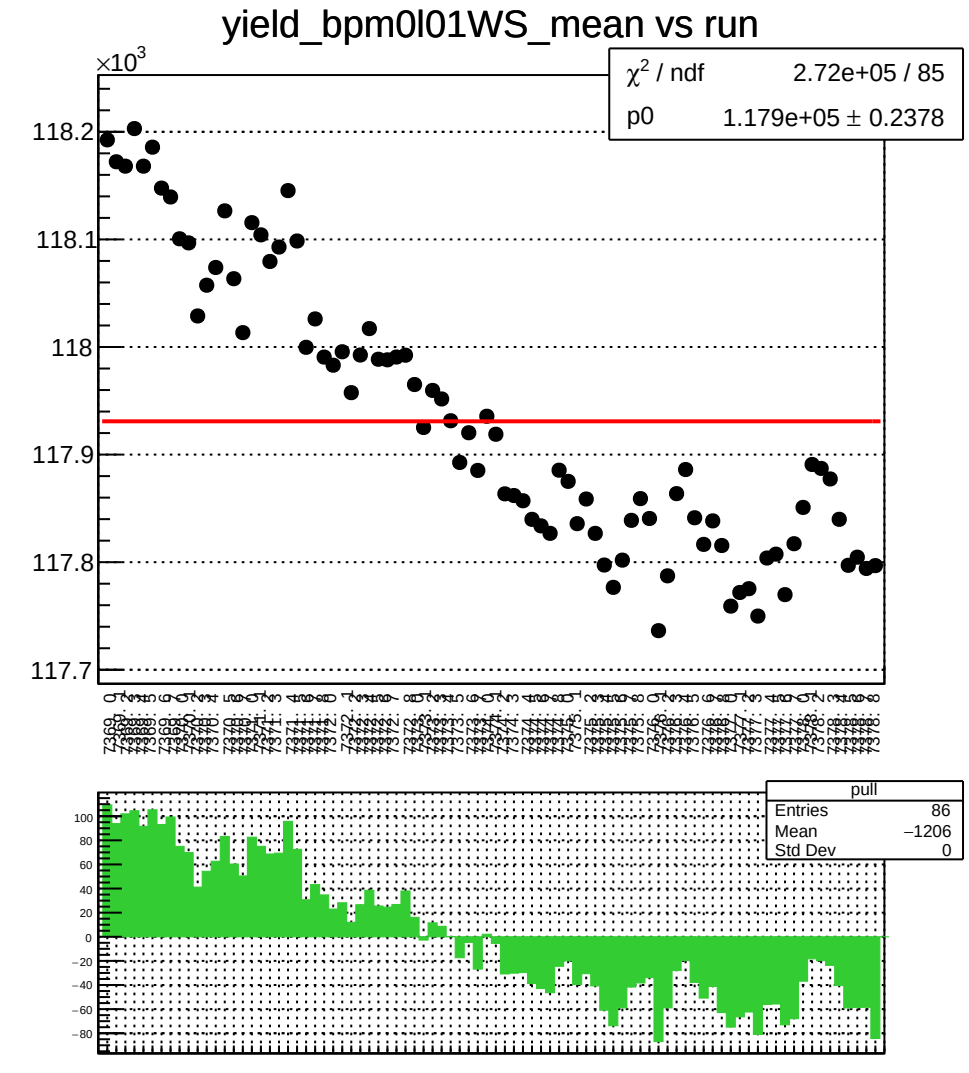

pull1D
Entries 86
Mean 2.492
Std Dev 3.367
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

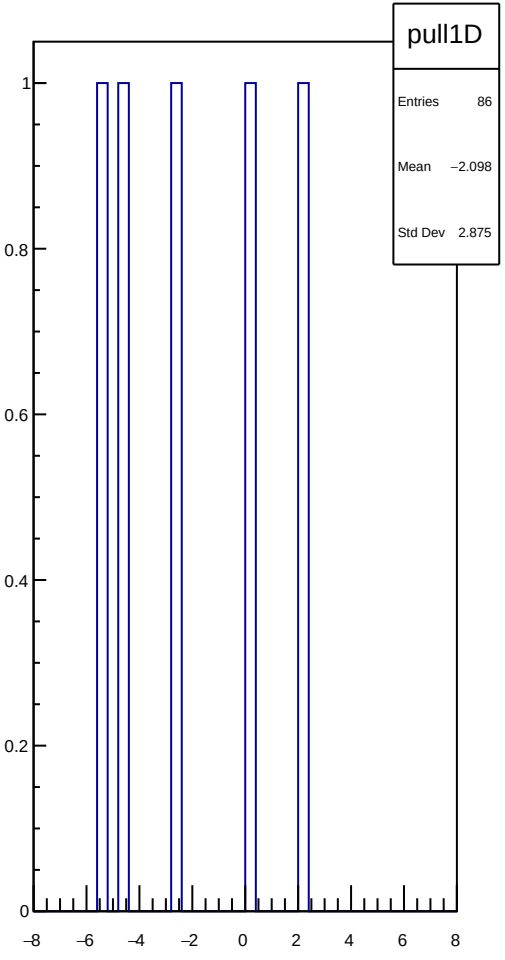

yield_bpm0i01WS_rms vs run
χ² / ndf 2106 / 85
p0 284.6 ± 0.2194
340
330
320
310
300
290
280
270
260

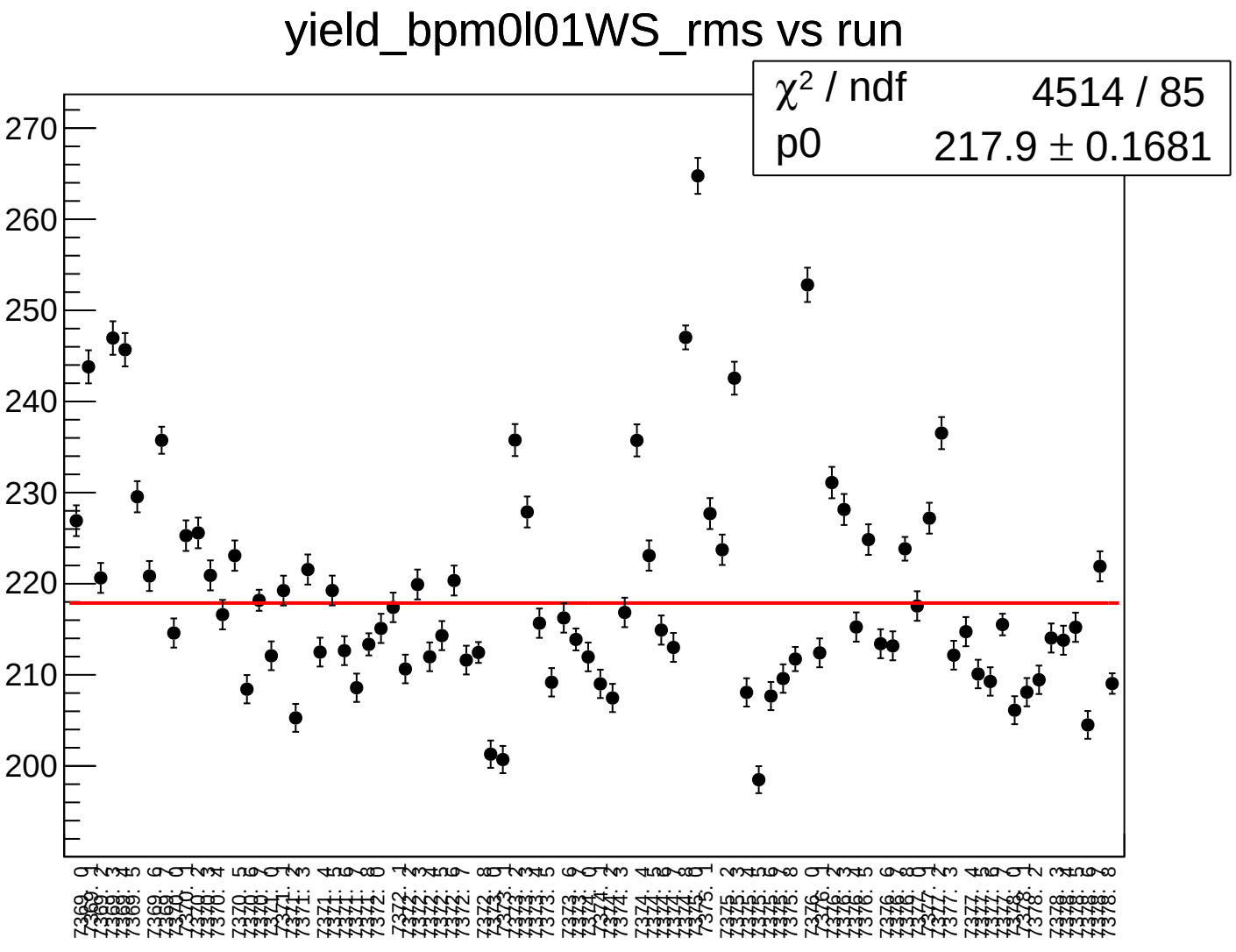

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 6.994e+04 / 85
p0 1.487e+05 ± 0.2791
148.85
148.8
148.75
148.7
148.65
148.6
148.55
pull
Entries 86
Mean −1.214e+04
Std Dev 0
60
40
20
0
−20
−40
−60

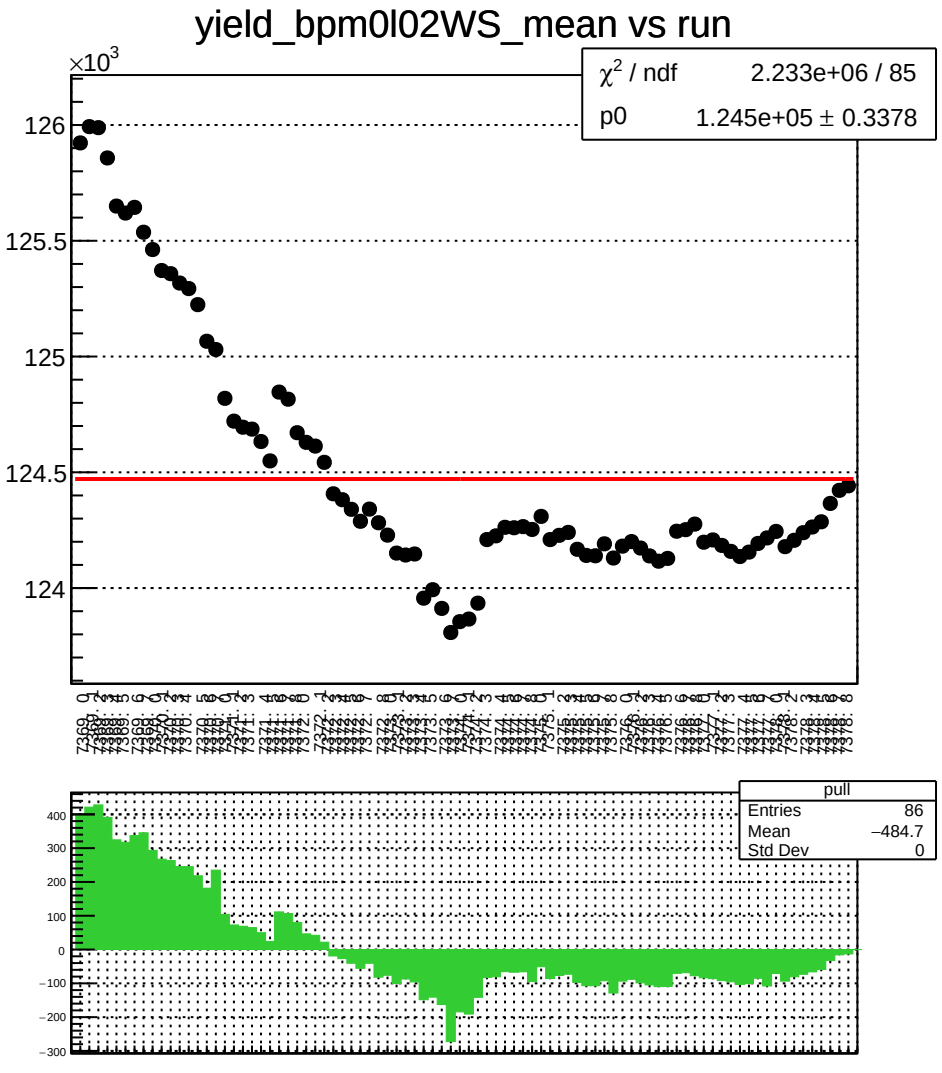

pull1D
Entries 86
Mean −2.344
Std Dev 3.901
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

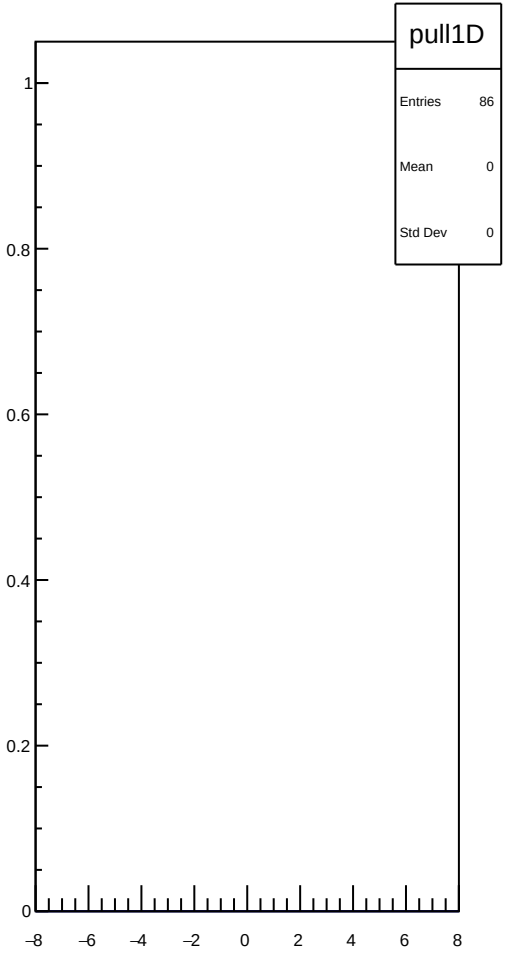

yield_bpm0i01aWS_rms vs run
χ² / ndf 2132 / 85
p0 255.9 ± 0.1973
300
290
280
270
260
250
240

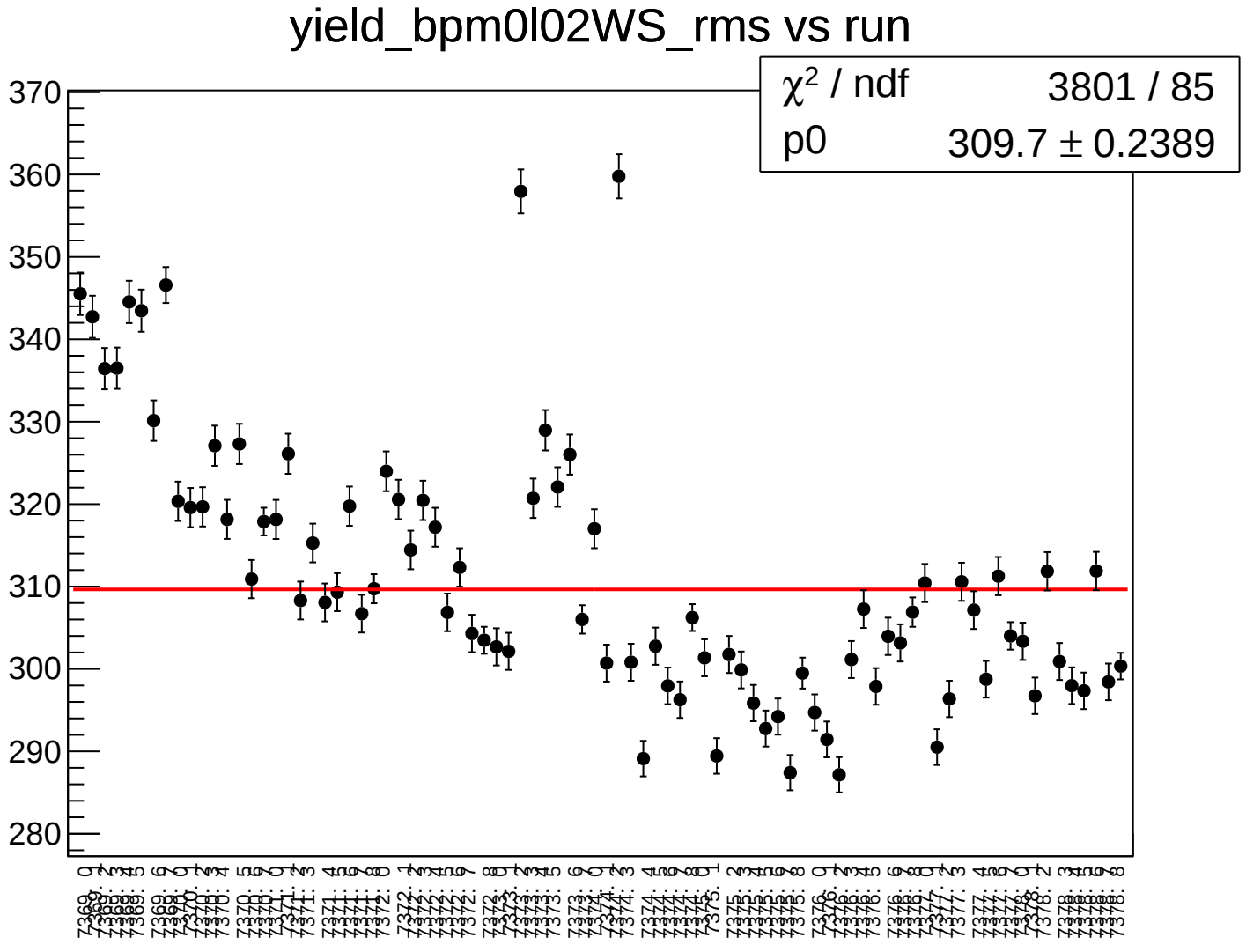

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.72e+05 / 85
p0 1.179e+05 ± 0.2378
118.2
118.1
118
117.9
117.8
117.7
pull
Entries 86
Mean −1206
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

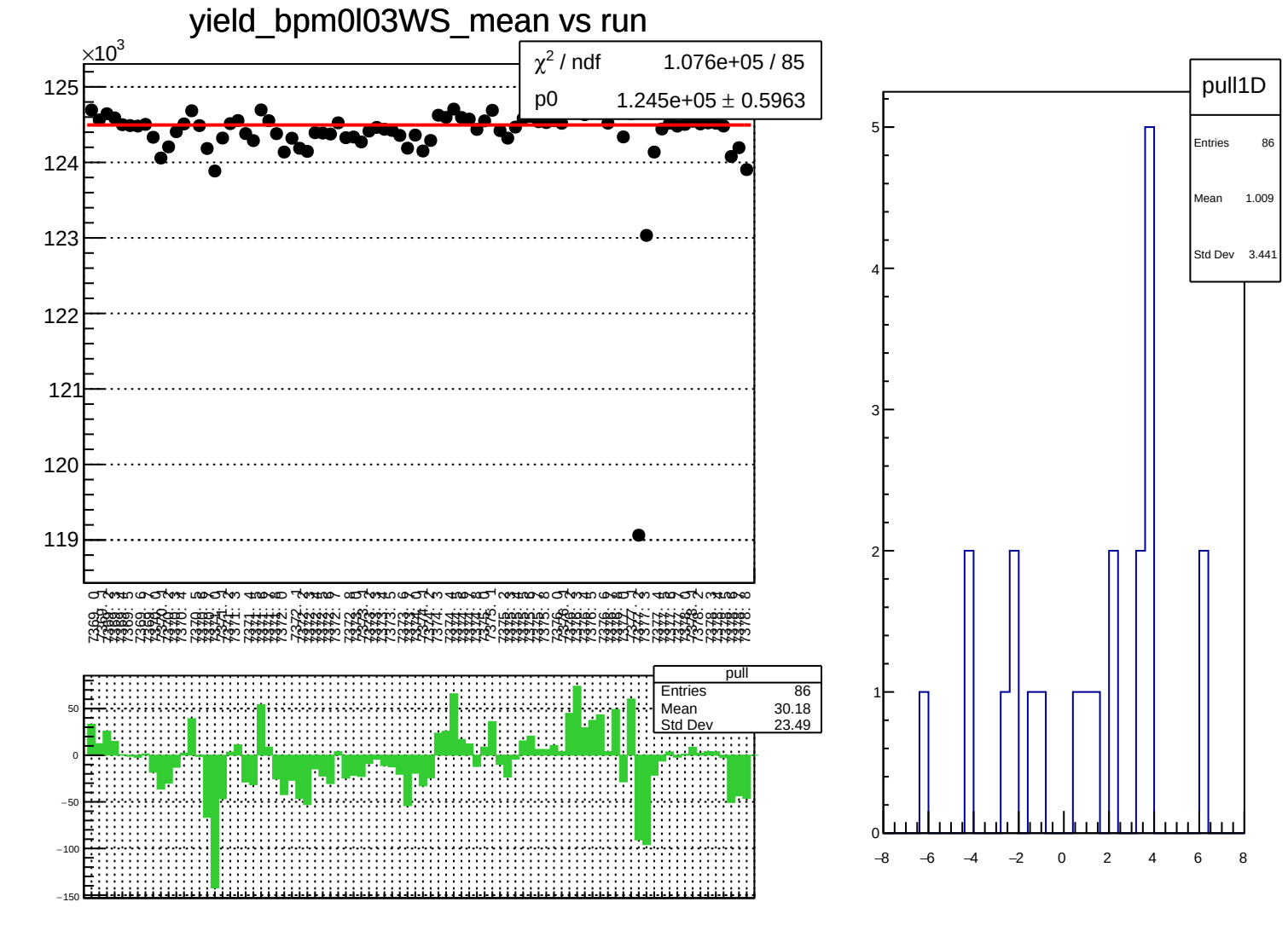

pull1D
Entries 86
Mean −2.098
Std Dev 2.875
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

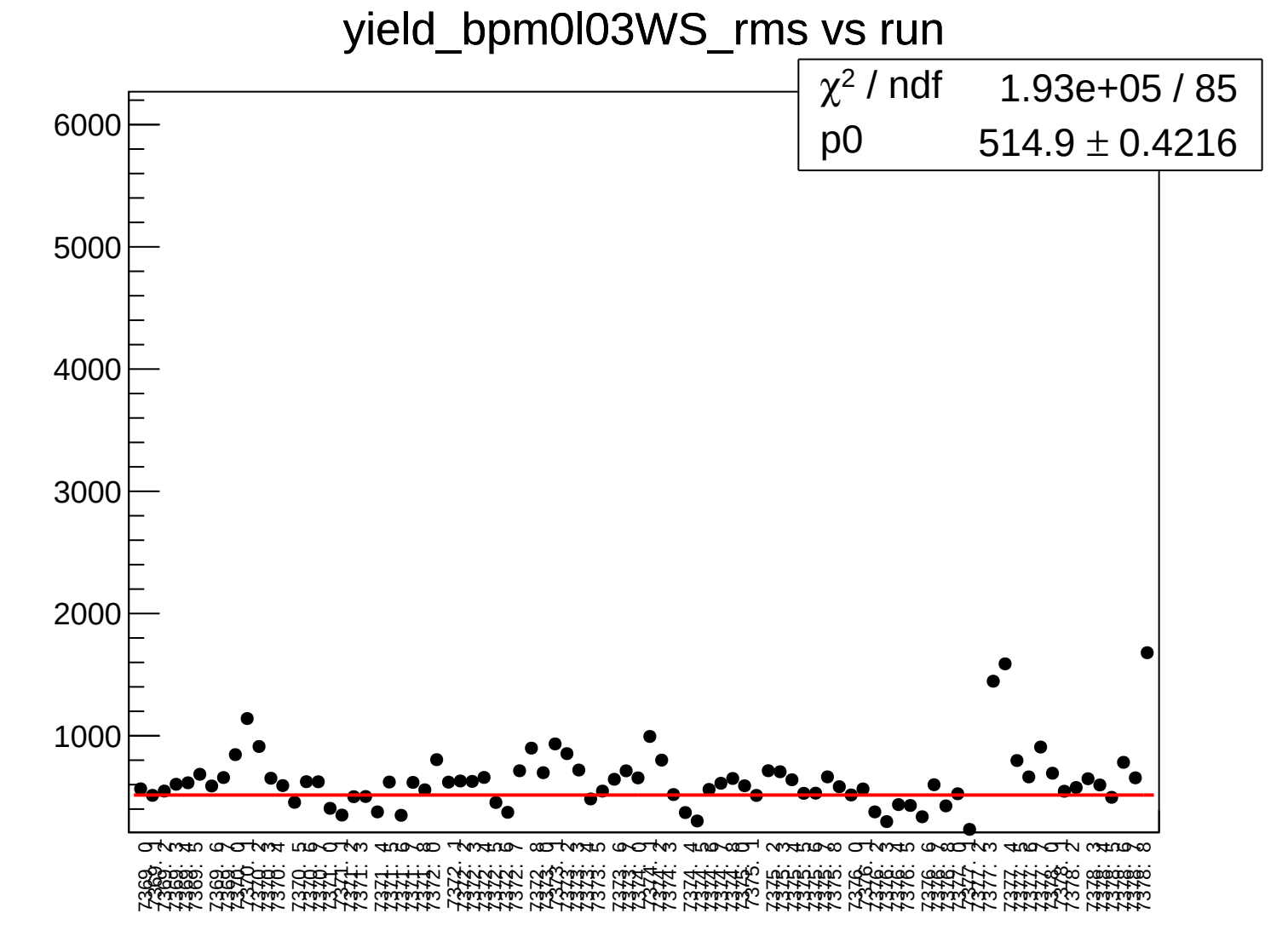

yield_bpm0l01WS_rms vs run
χ² / ndf 4514 / 85
p0 217.9 ± 0.1681
270
260
250
240
230
220
210
200

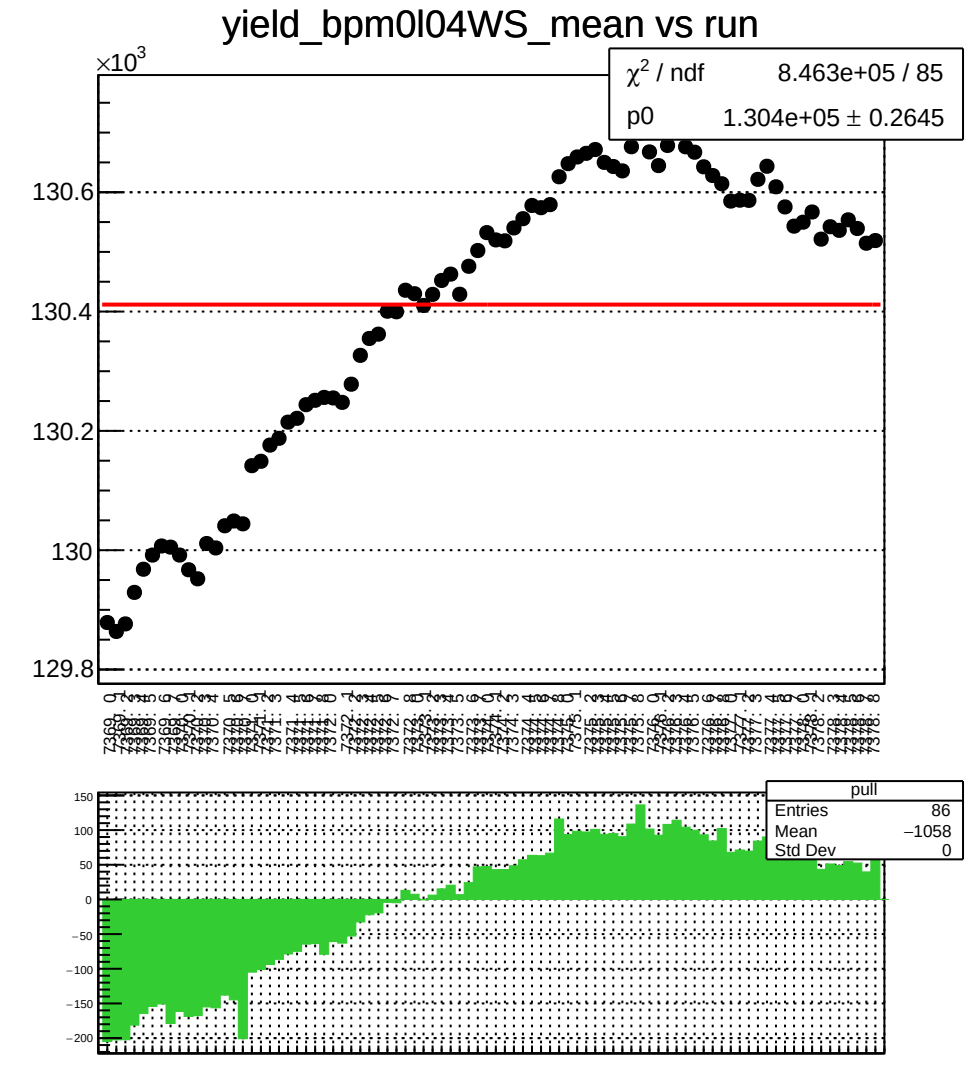

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 2.233e+06 / 85
p0 1.245e+05 ± 0.3378
126
125.5
125
124.5
124
pull
Entries 86
Mean −484.7
Std Dev 0
400
300
200
100
0
−100
−200
−300

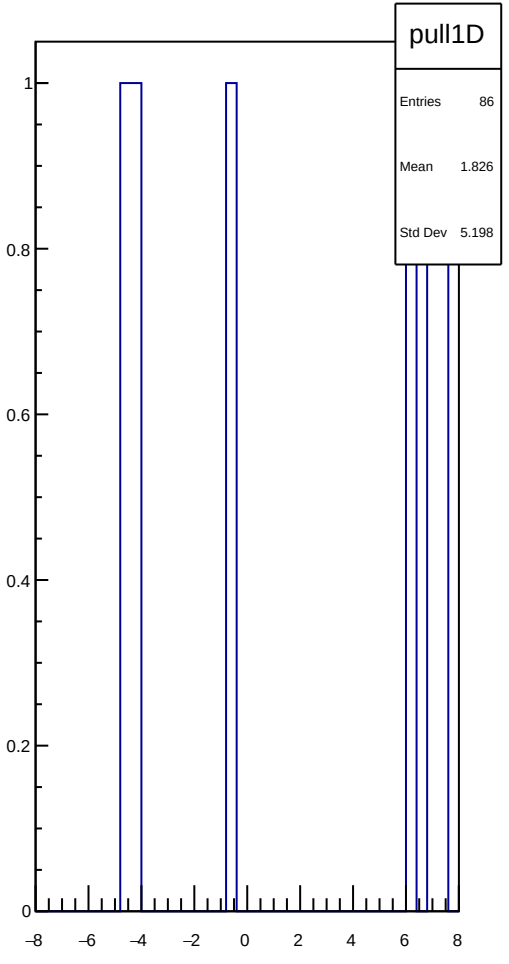

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

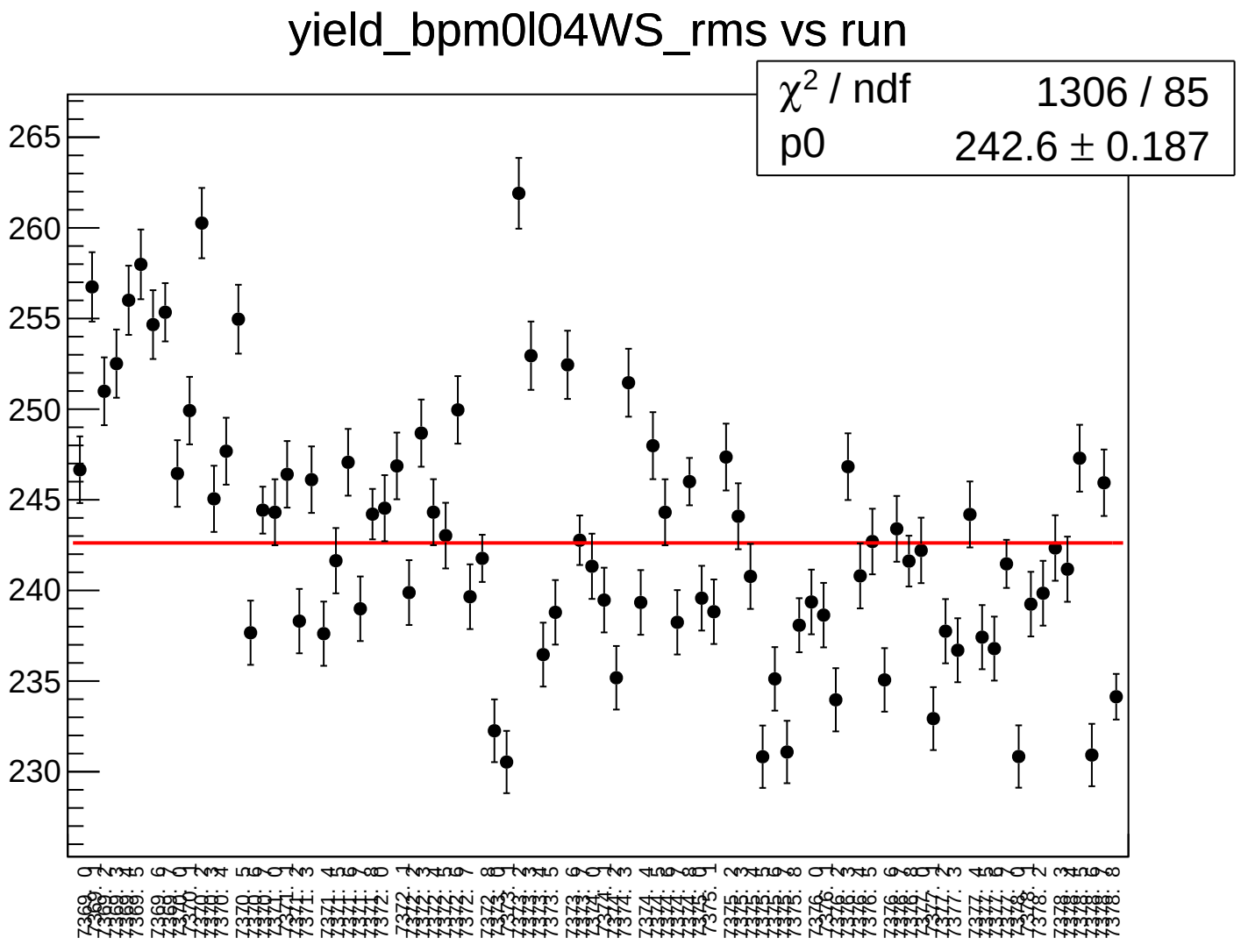

yield_bpm0l02WS_rms vs run
χ² / ndf 3801 / 85
p0 309.7 ± 0.2389
370
360
350
340
330
320
310
300
290
280

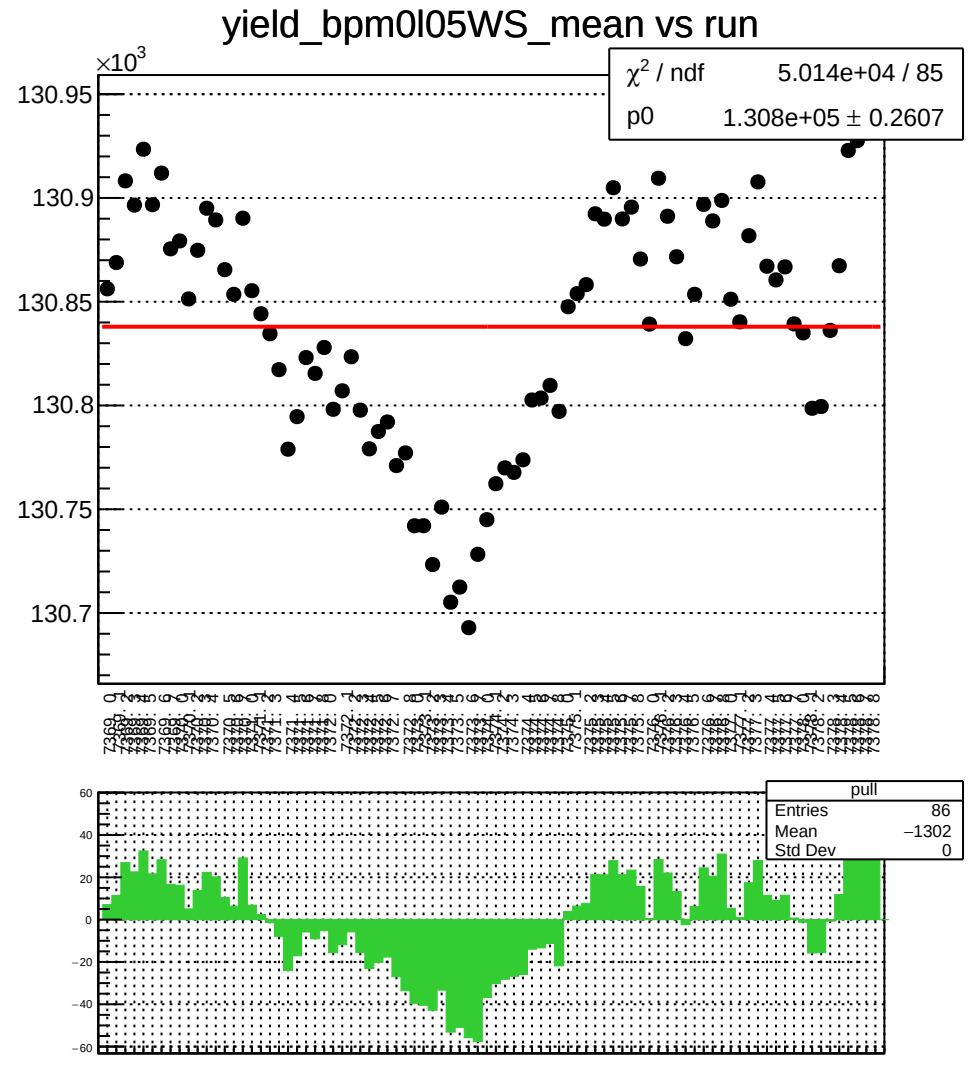

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.076e+05 / 85
p0 1.245e+05 ± 0.5963
125
124
123
122
121
120
119
pull
Entries 86
Mean 30.18
Std Dev 23.49
50
0
−50
−100
−150
pull1D
Entries 86
Mean 1.009
Std Dev 3.441
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

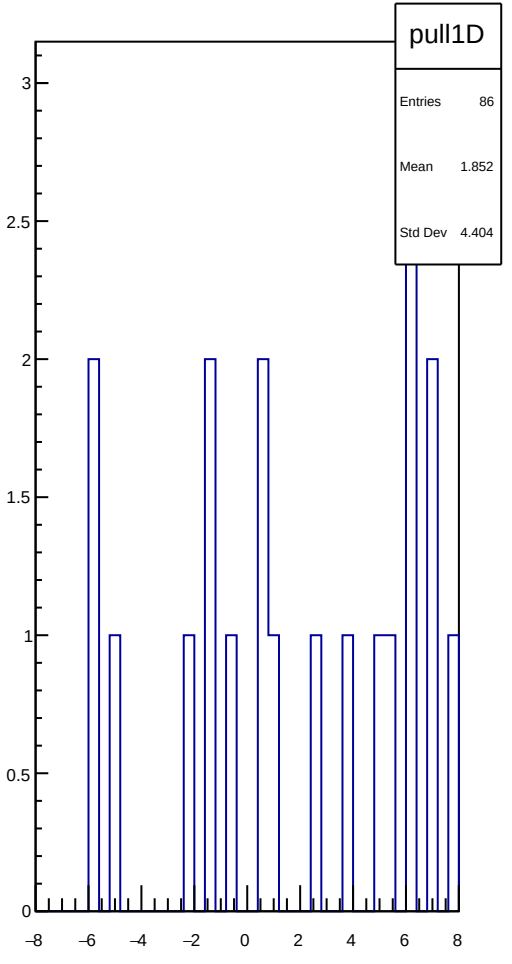

yield_bpm0l03WS_rms vs run
χ² / ndf 1.93e+05 / 85
p0 514.9 ± 0.4216
6000
5000
4000
3000
2000
1000

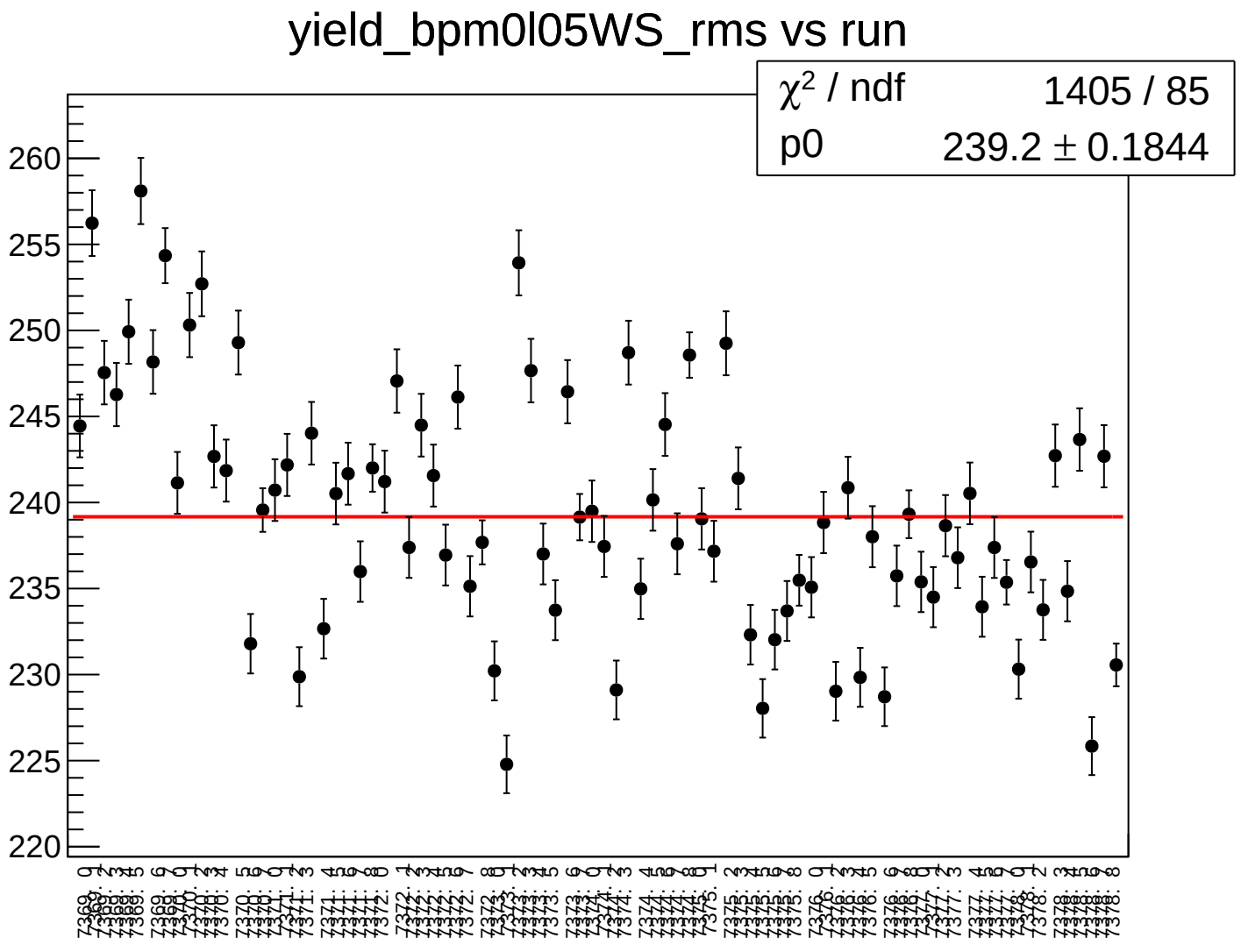

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 8.463e+05 / 85
p0 1.304e+05 ± 0.2645
130.6
130.4
130.2
130
129.8
pull
Entries 86
Mean −1058
Std Dev 0
150
100
50
0
−50
−100
−150
−200

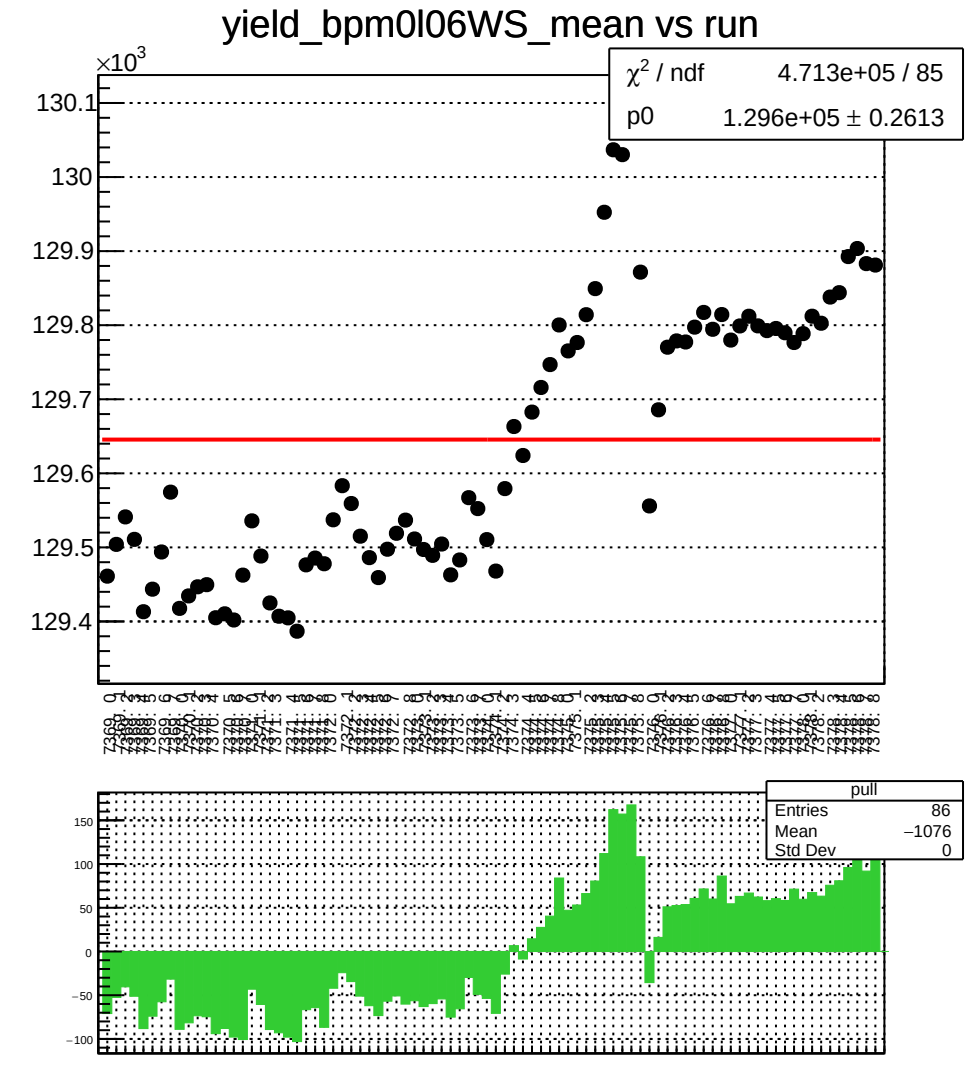

pull1D
Entries 86
Mean 1.826
Std Dev 5.198
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

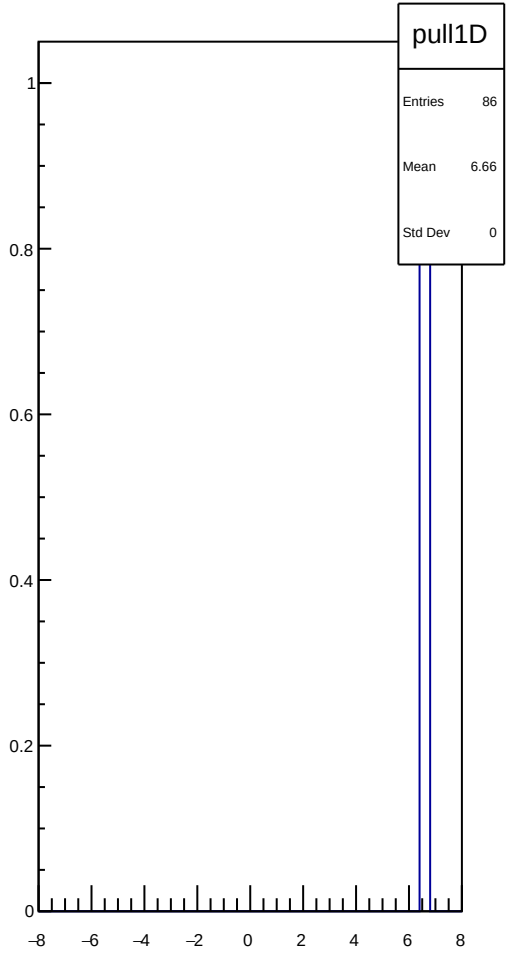

yield_bpm0l04WS_rms vs run
χ² / ndf 1306 / 85
p0 242.6 ± 0.187
265
260
255
250
245
240
235
230

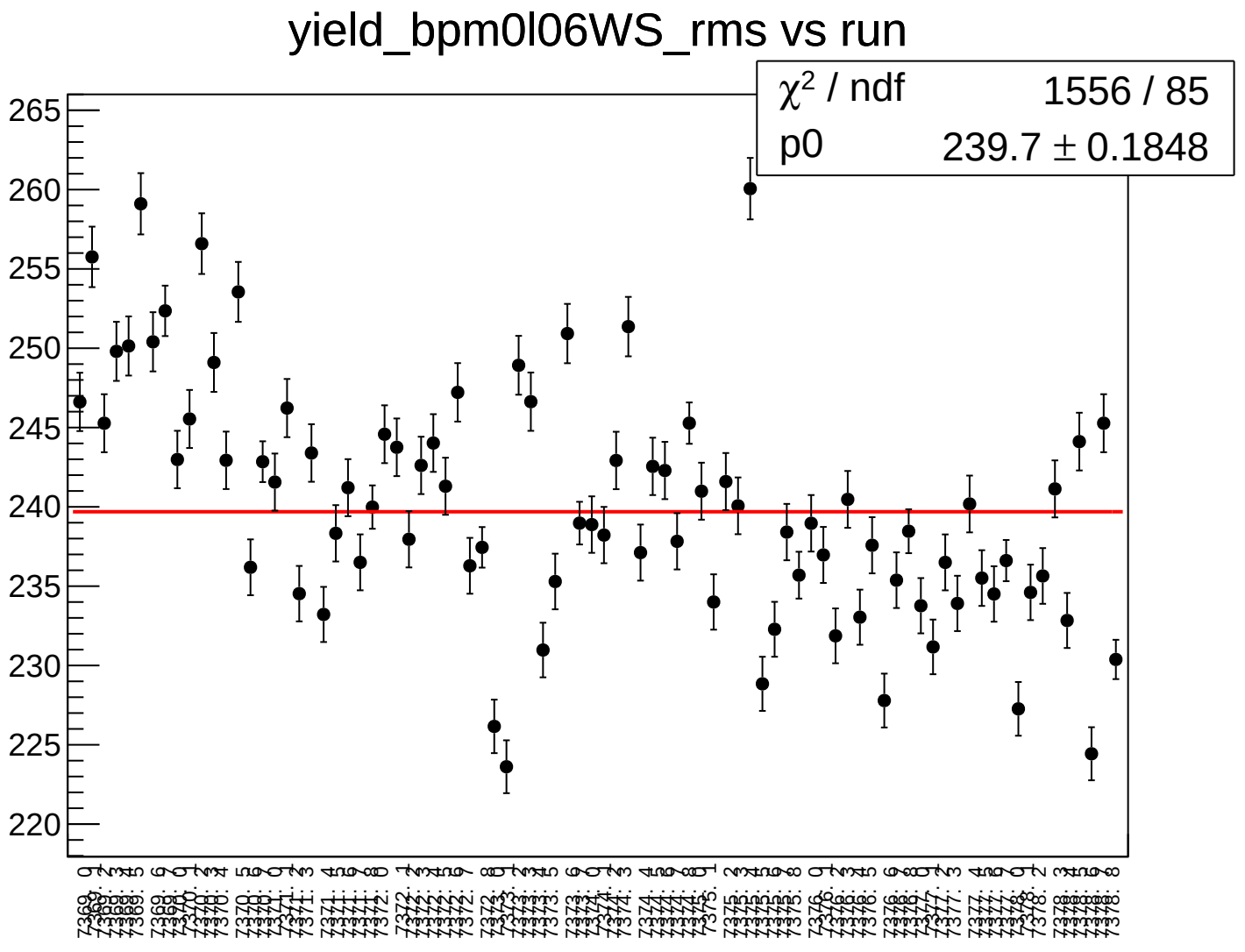

yield_bpm0l05WS_mean vs run
×10^3
130.95
130.9
130.85
130.8
130.75
130.7
χ² / ndf 5.014e+04 / 85
p0 1.308e+05 ± 0.2607
pull
Entries 86
Mean −1302
Std Dev 0
60
40
20
0
−20
−40
−60

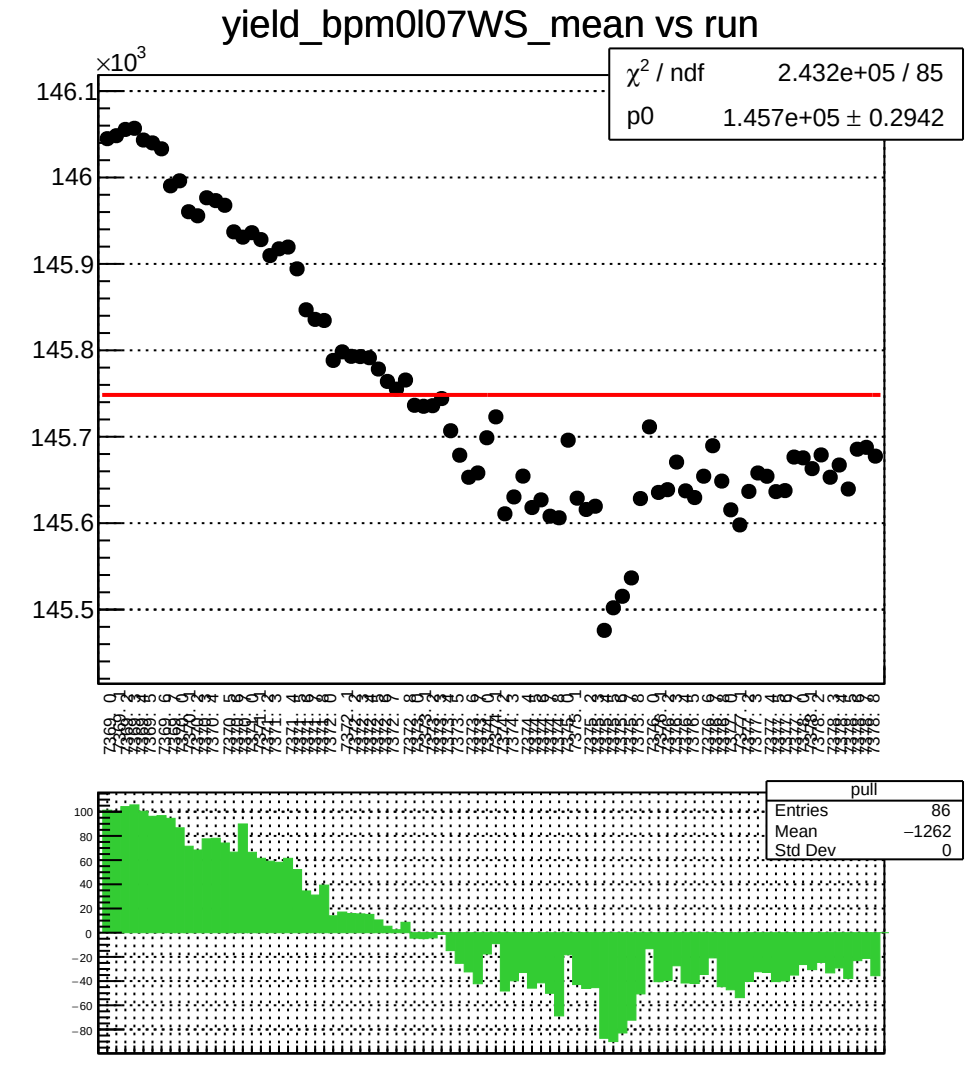

pull1D
Entries 86
Mean 1.852
Std Dev 4.404
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

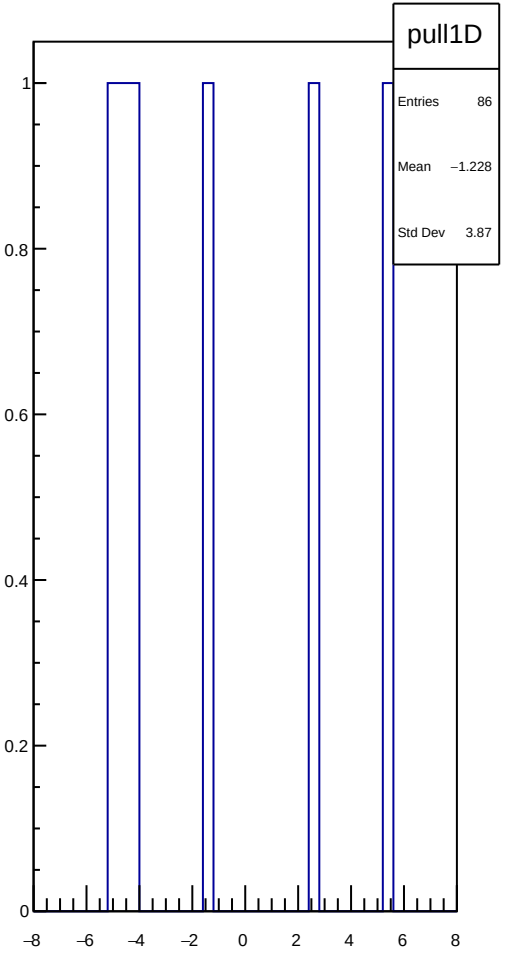

yield_bpm0l05WS_rms vs run
χ² / ndf 1405 / 85
p0 239.2 ± 0.1844
260
255
250
245
240
235
230
225
220

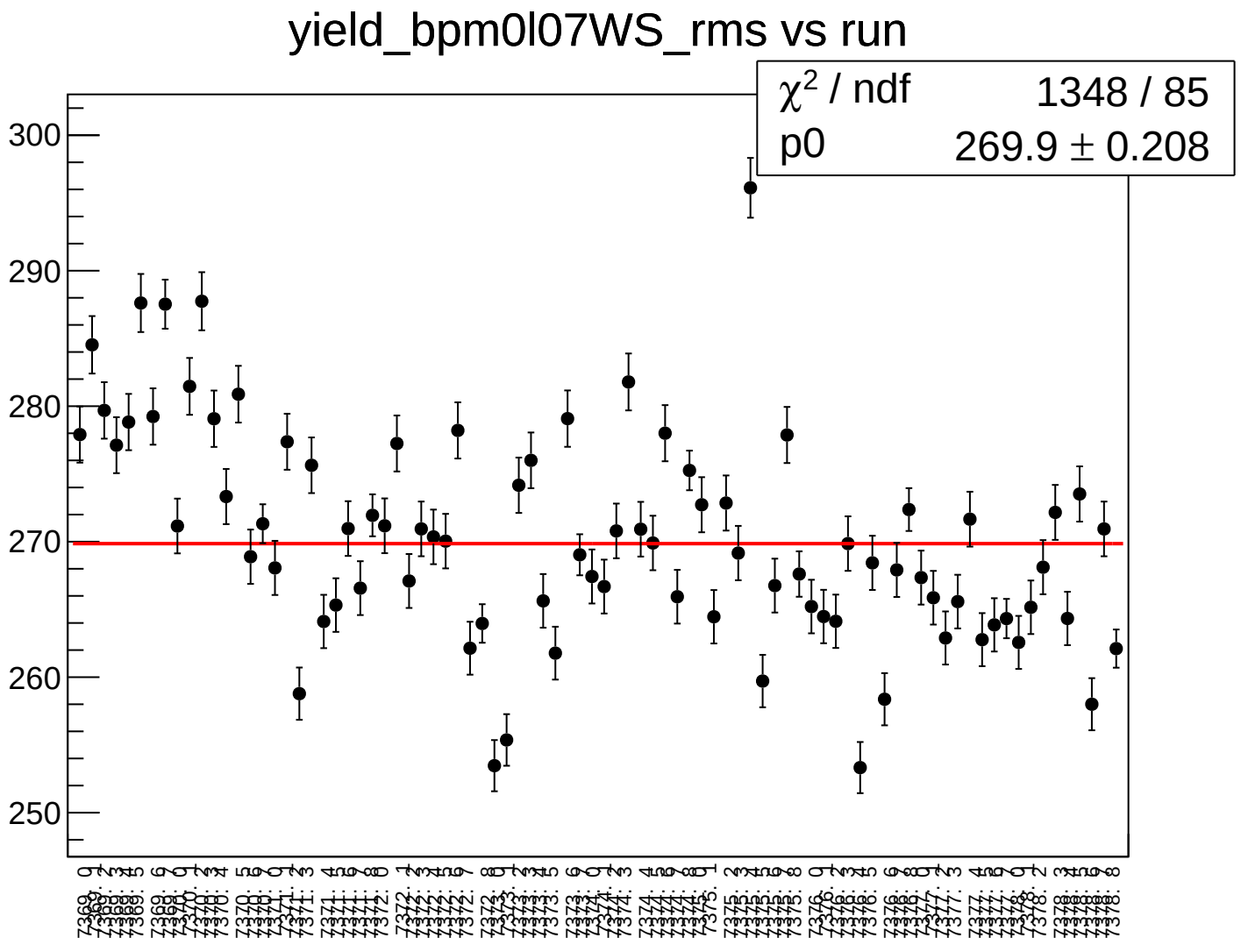

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 4.713e+05 / 85
p0 1.296e+05 ± 0.2613
130.1
130
129.9
129.8
129.7
129.6
129.5
129.4
pull
Entries 86
Mean −1076
Std Dev 0
150
100
50
0
−50
−100

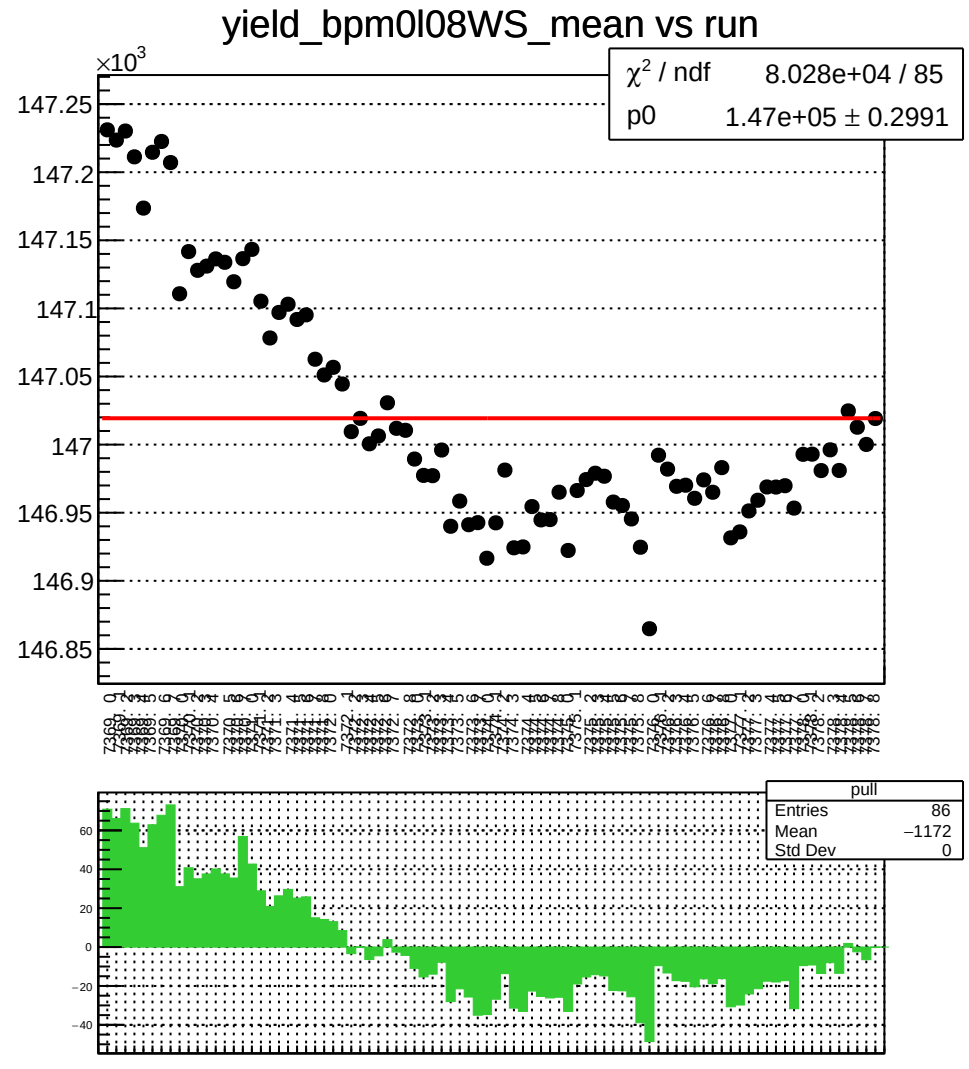

pull1D
Entries 86
Mean 6.66
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

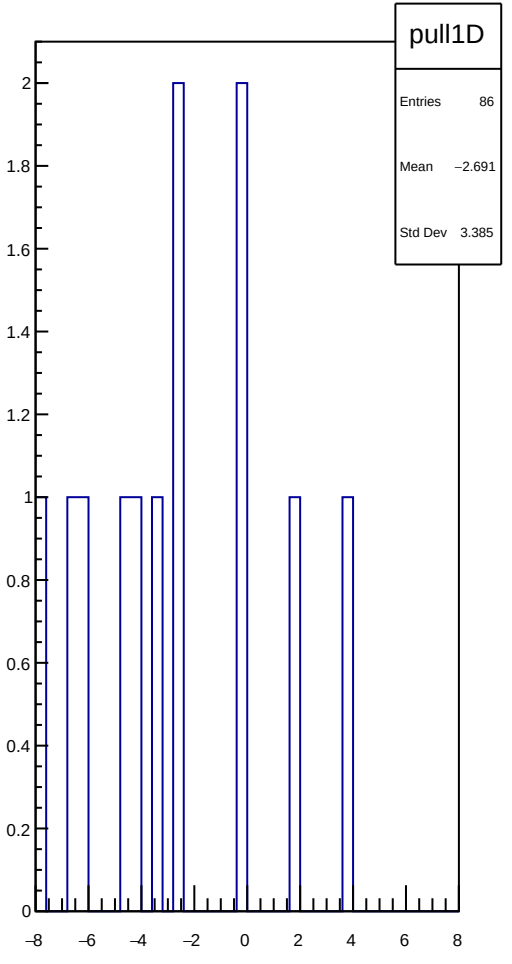

yield_bpm0l06WS_rms vs run
χ² / ndf 1556 / 85
p0 239.7 ± 0.1848
265
260
255
250
245
240
235
230
225
220

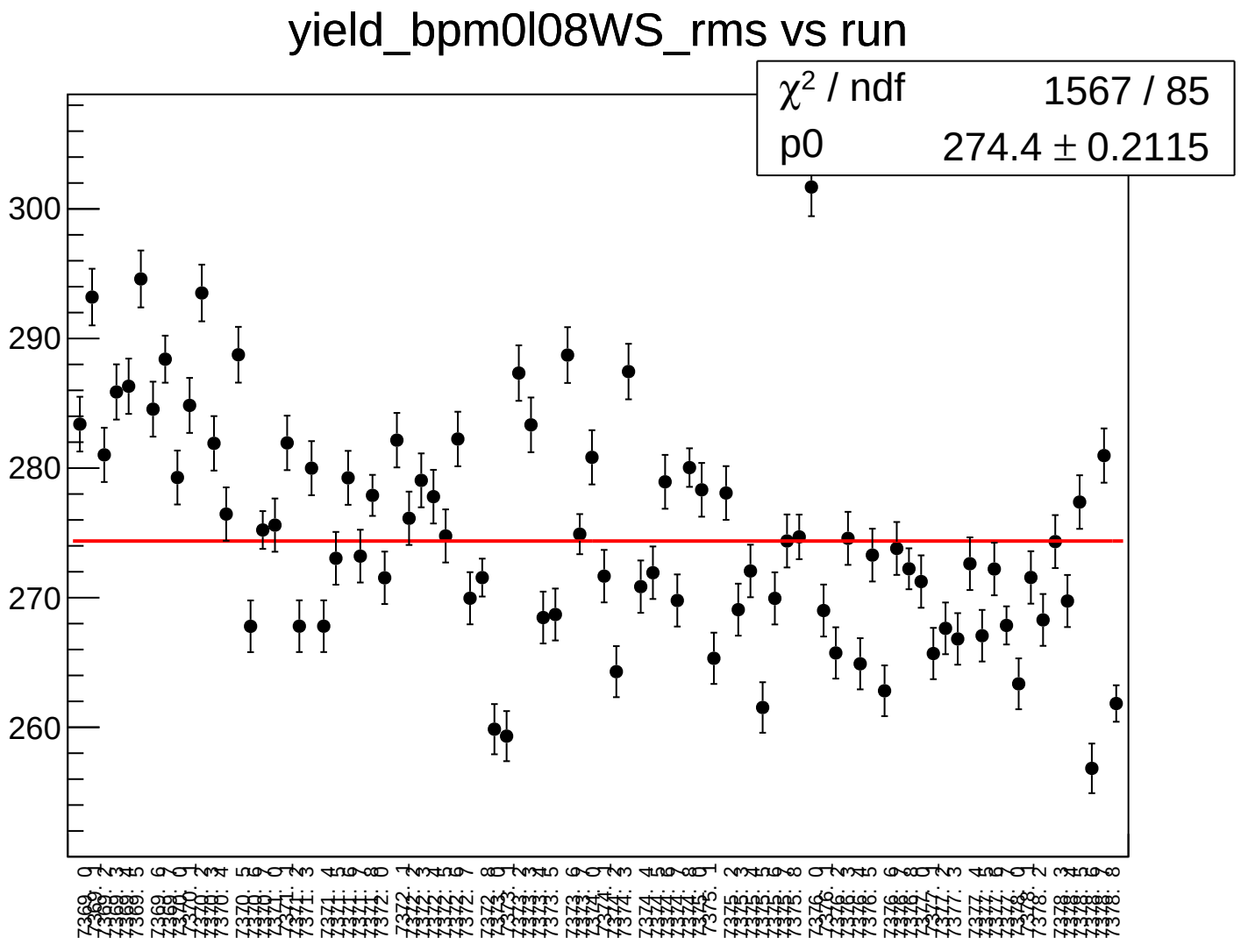

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 2.432e+05 / 85
p0 1.457e+05 ± 0.2942
146.1
146
145.9
145.8
145.7
145.6
145.5
pull
Entries 86
Mean −1262
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

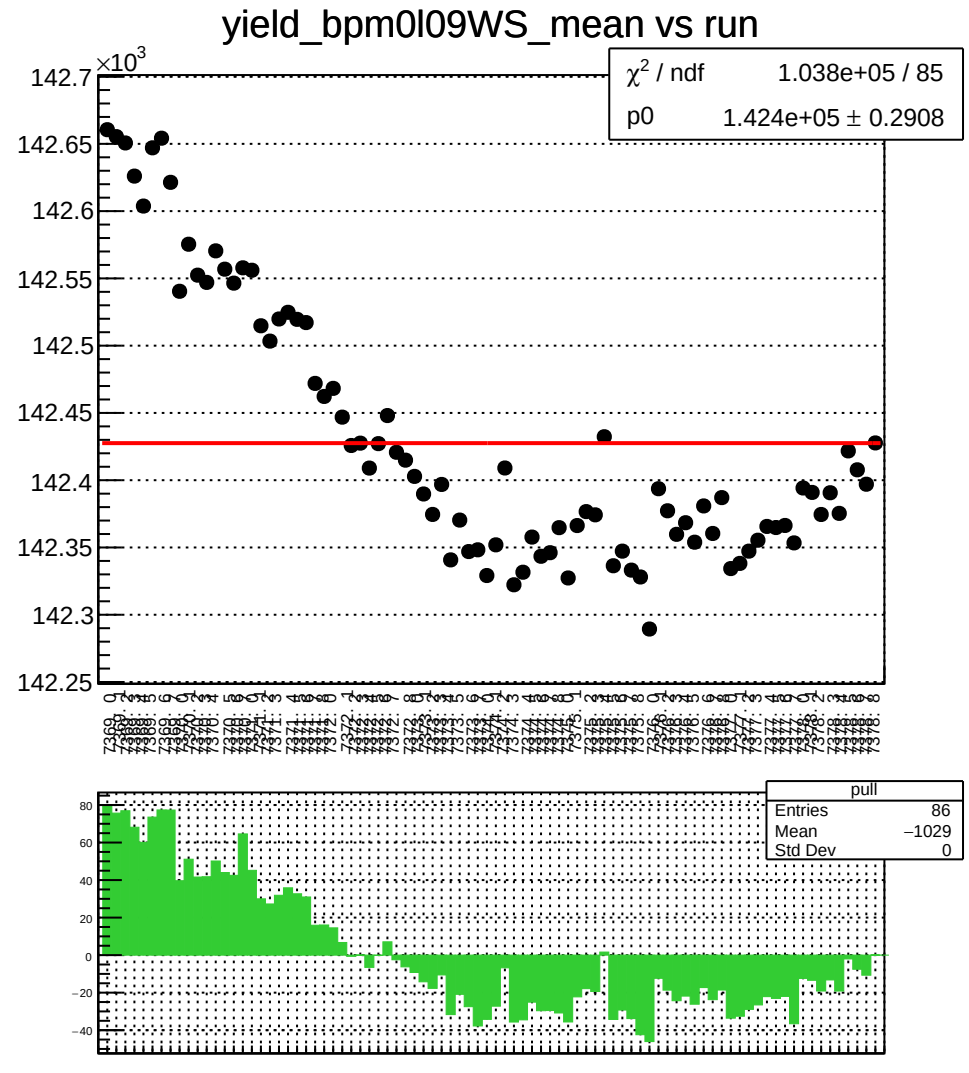

pull1D
Entries 86
Mean −1.228
Std Dev 3.87
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

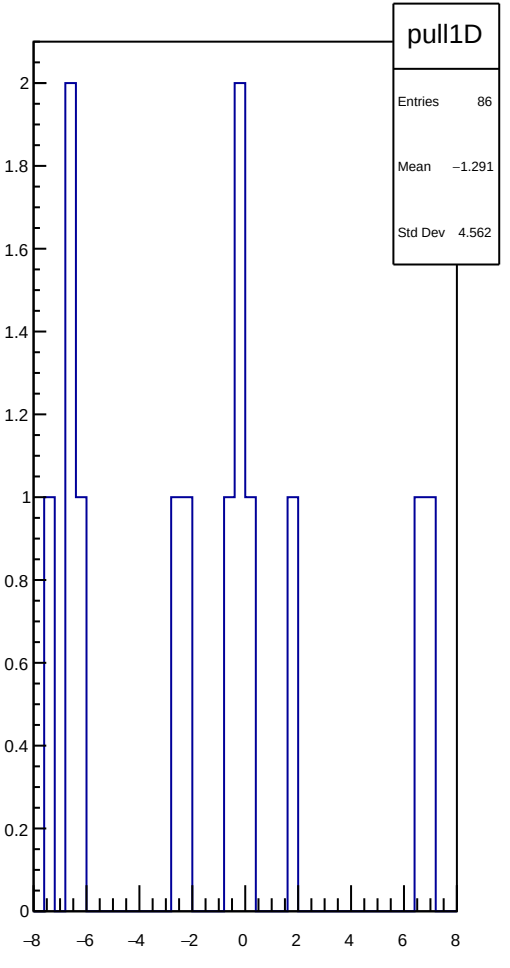

yield_bpm0l07WS_rms vs run
χ² / ndf 1348 / 85
p0 269.9 ± 0.208
300
290
280
270
260
250

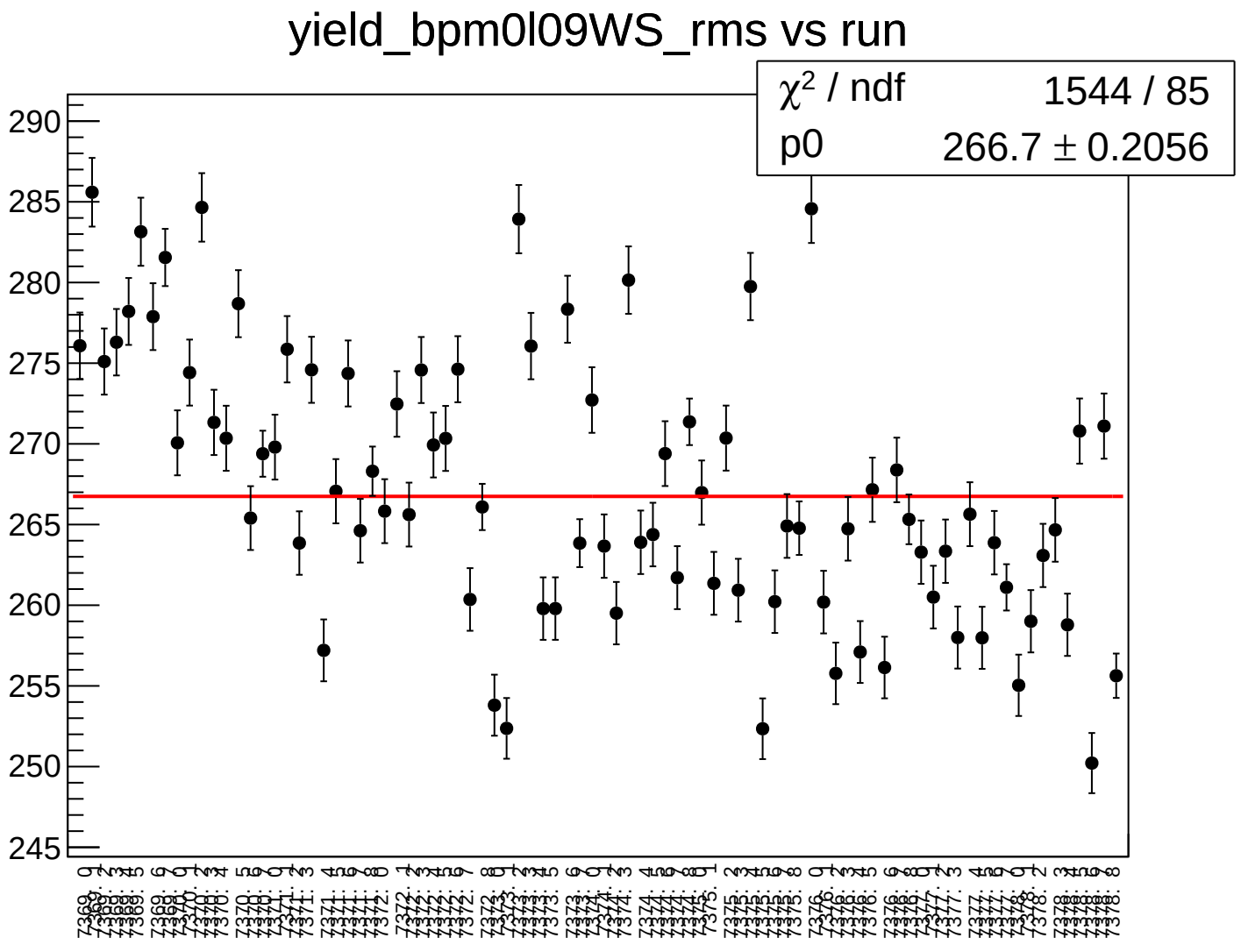

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 8.028e+04 / 85
p0 1.47e+05 ± 0.2991
147.25
147.2
147.15
147.1
147.05
147
146.95
146.9
146.85
pull
Entries 86
Mean −1172
Std Dev 0
60
40
20
0
−20
−40

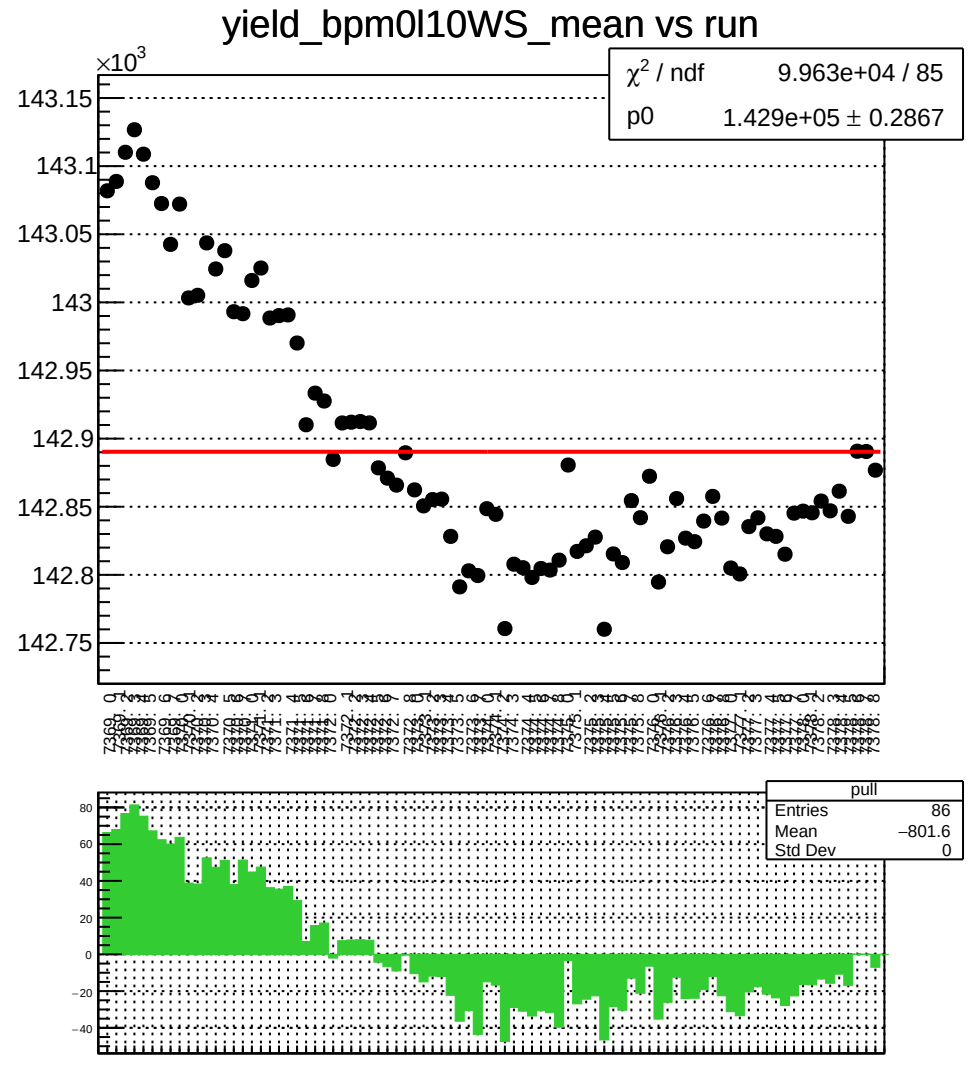

pull1D
Entries 86
Mean −2.691
Std Dev 3.385
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

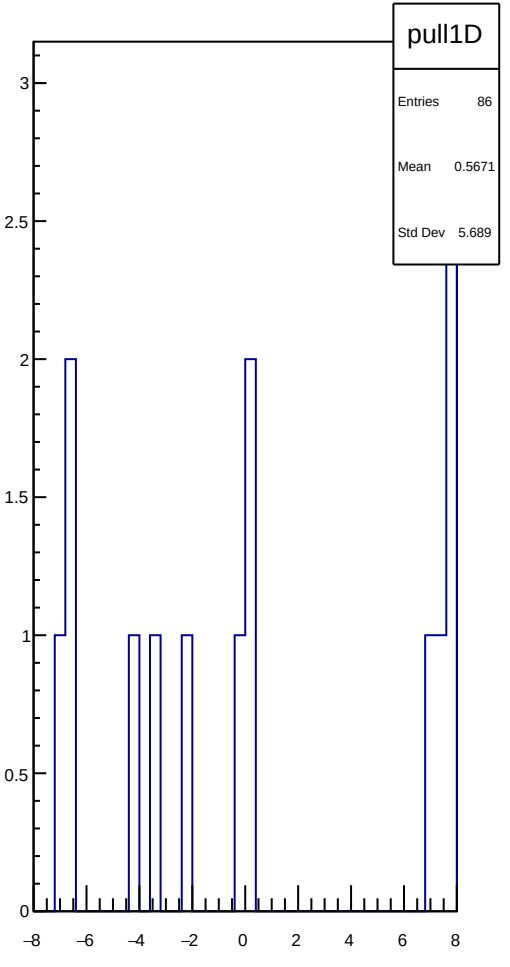

yield_bpm0l08WS_rms vs run
χ² / ndf 1567 / 85
p0 274.4 ± 0.2115
300
290
280
270
260

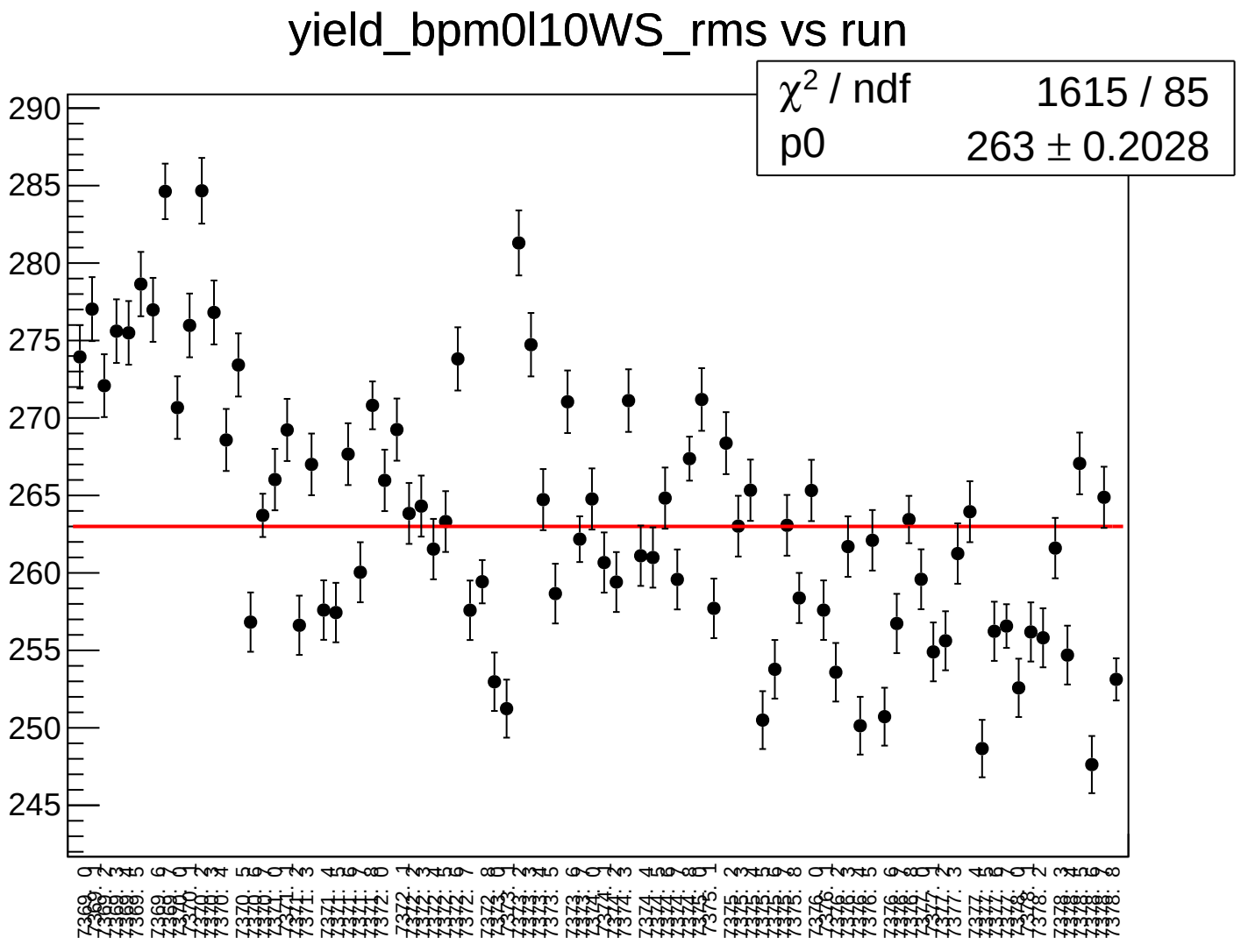

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.038e+05 / 85
p0 1.424e+05 ± 0.2908
142.7
142.65
142.6
142.55
142.5
142.45
142.4
142.35
142.3
142.25
pull
Entries 86
Mean −1029
Std Dev 0
80
60
40
20
0
−20
−40

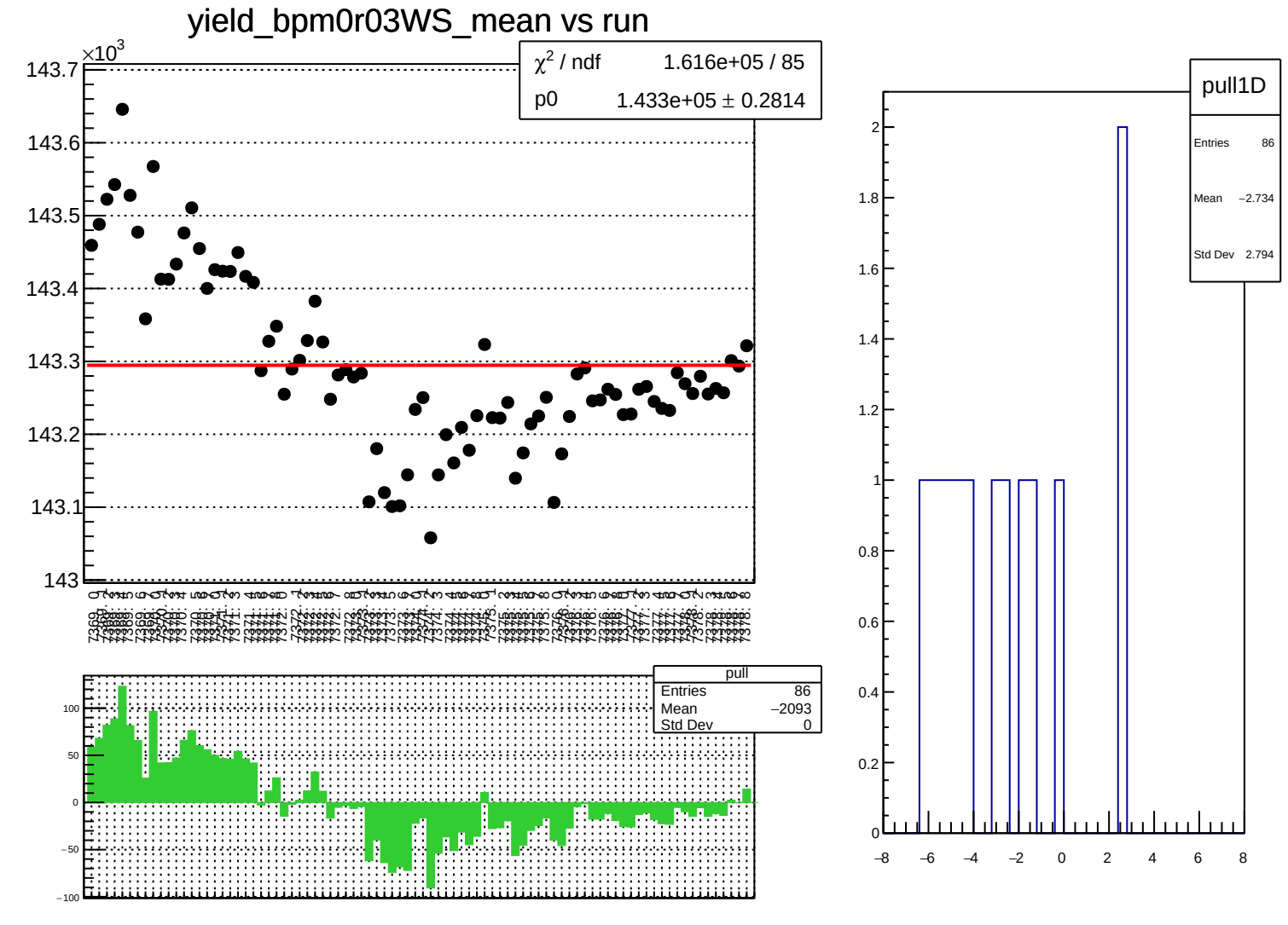

pull1D
Entries 86
Mean −1.291
Std Dev 4.562
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

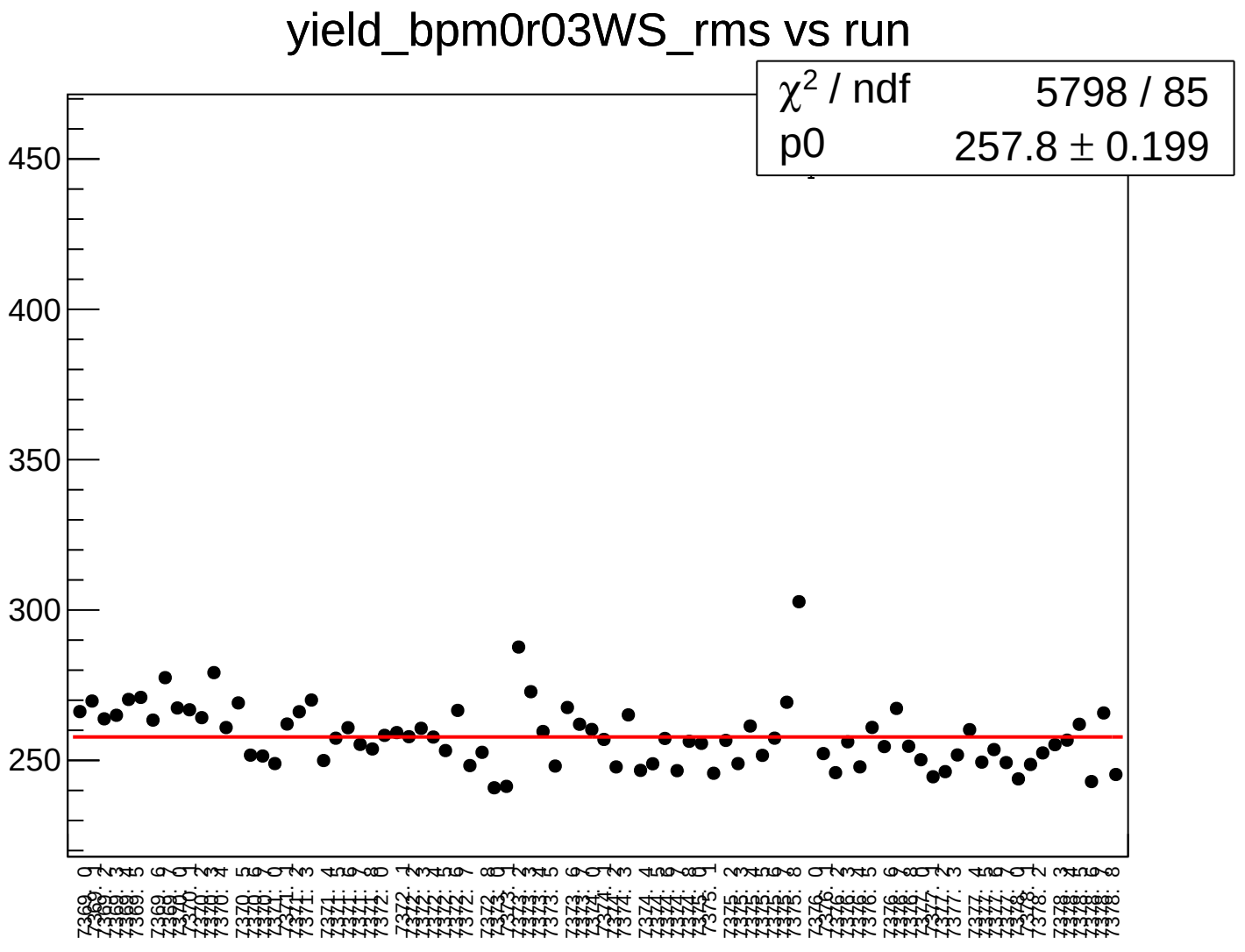

yield_bpm0l09WS_rms vs run
χ² / ndf 1544 / 85
p0 266.7 ± 0.2056
290
285
280
275
270
265
260
255
250
245

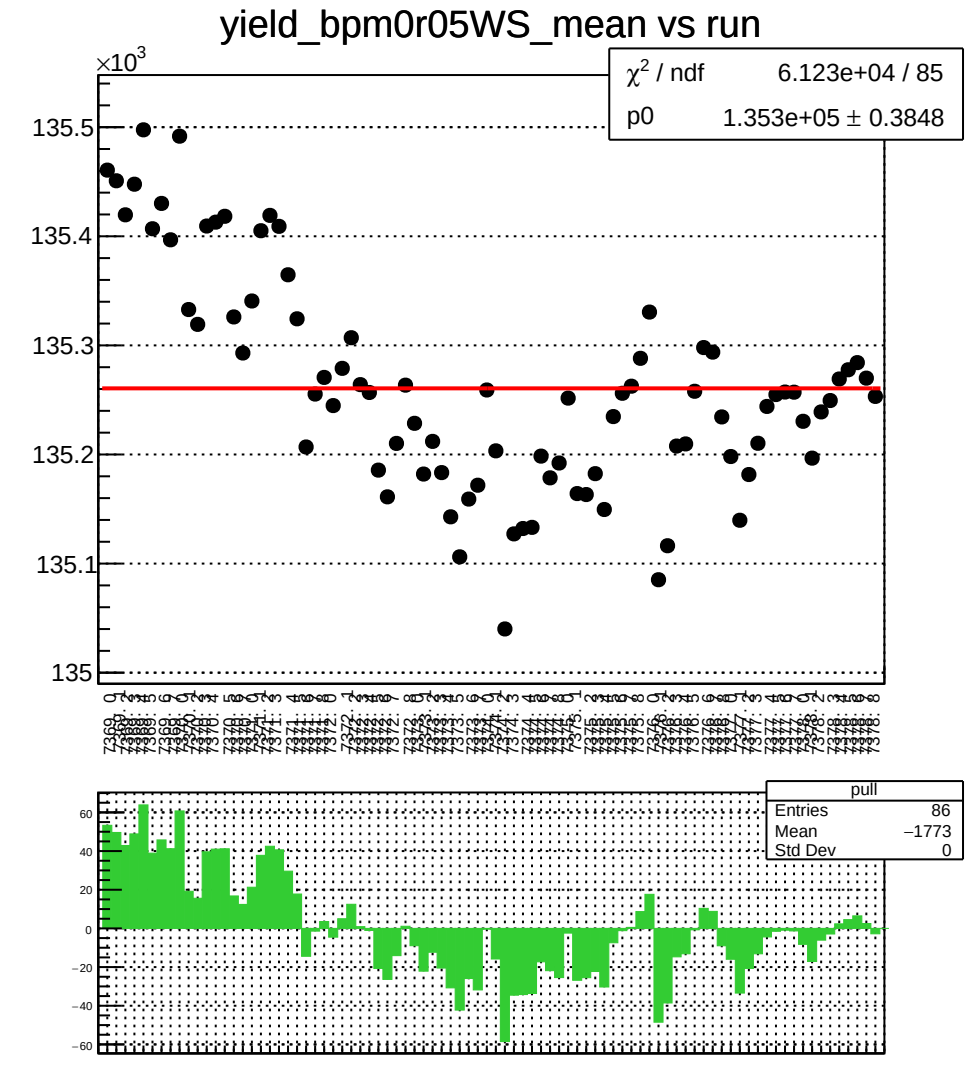

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 9.963e+04 / 85
p0 1.429e+05 ± 0.2867
143.15
143.1
143.05
143
142.95
142.9
142.85
142.8
142.75
pull
Entries 86
Mean −801.6
Std Dev 0
80
60
40
20
0
−20
−40

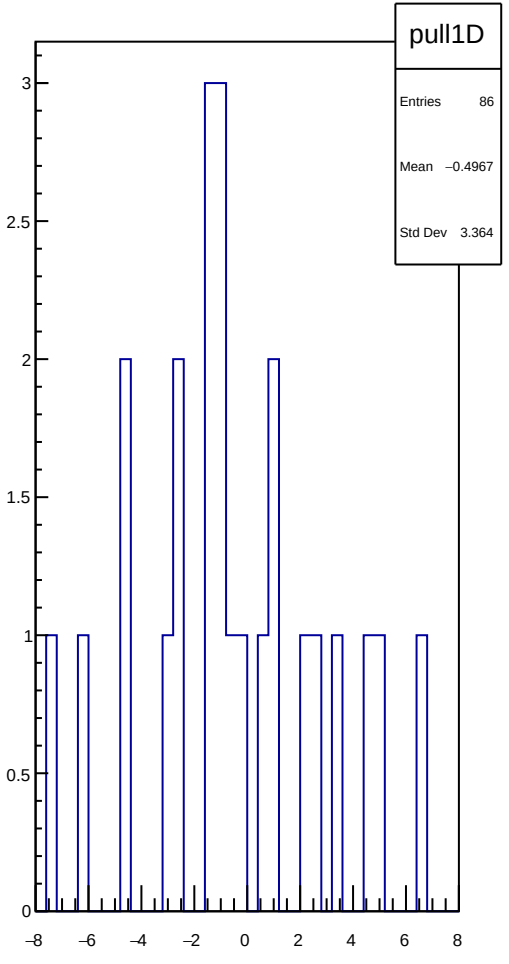

pull1D
Entries 86
Mean 0.5671
Std Dev 5.689
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

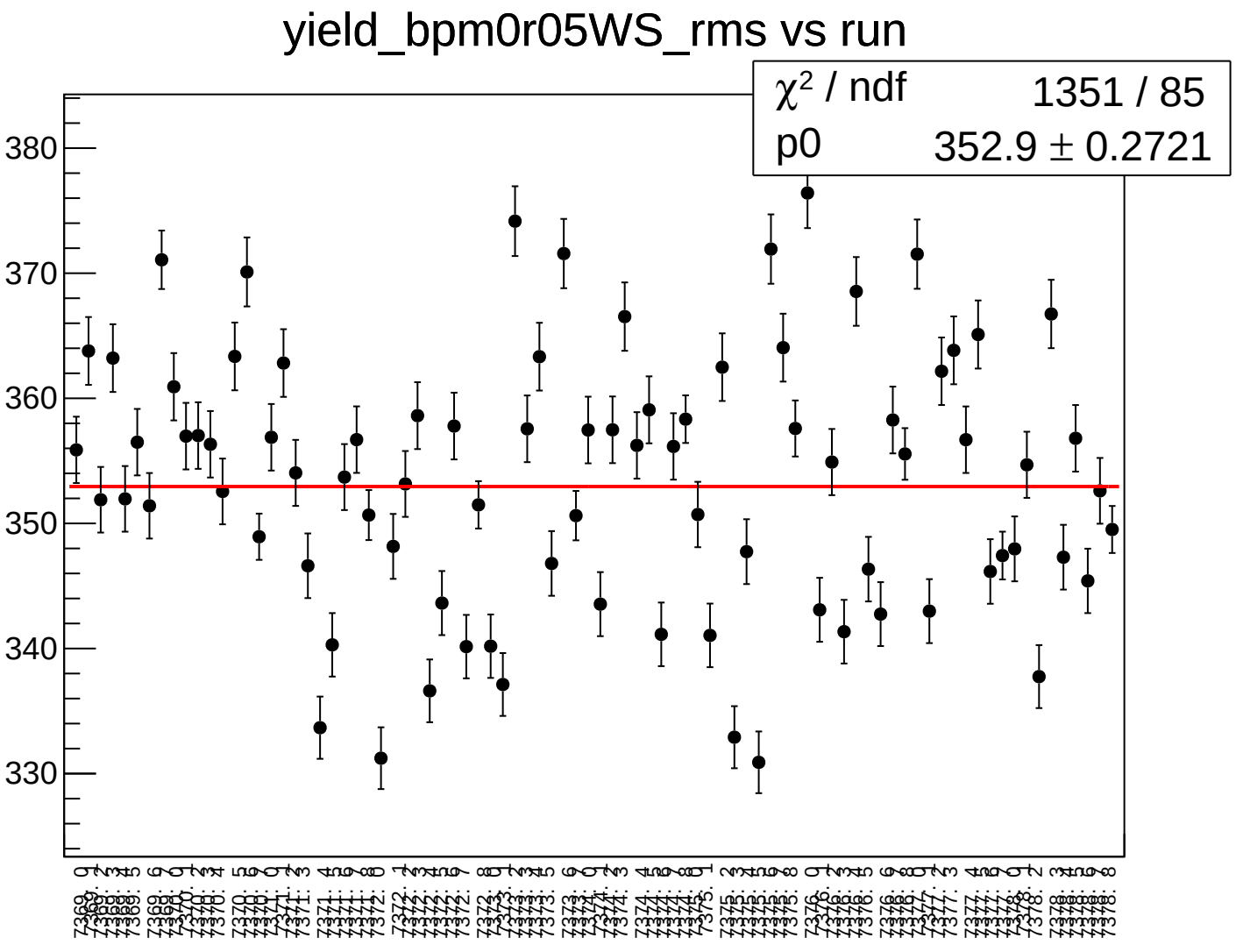

yield_bpm0l10WS_rms vs run
χ² / ndf 1615 / 85
p0 263 ± 0.2028
290
285
280
275
270
265
260
255
250
245

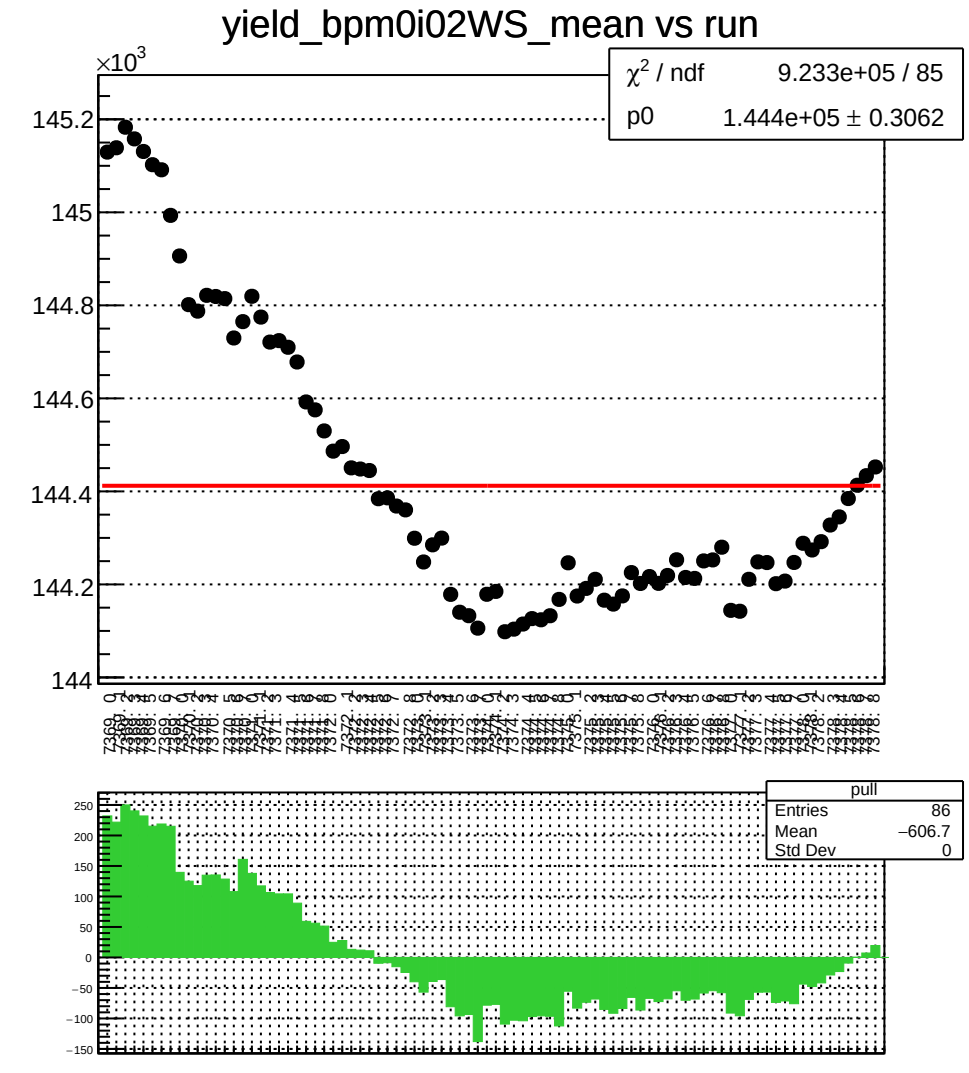

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 1.616e+05 / 85
p0 1.433e+05 ± 0.2814
143.7
143.6
143.5
143.4
143.3
143.2
143.1
143
pull
Entries 86
Mean −2093
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 86
Mean −2.734
Std Dev 2.794
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

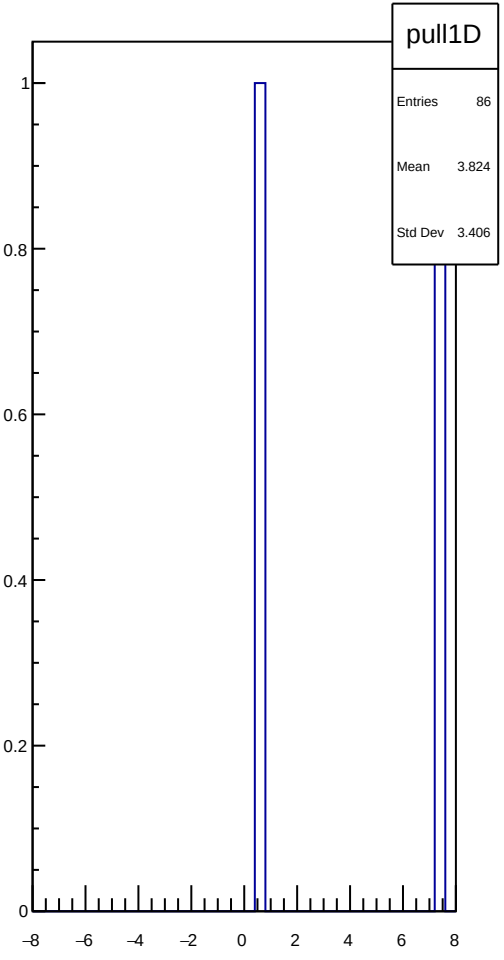

yield_bpm0r03WS_rms vs run
χ^2 / ndf 5798 / 85
p0 257.8 ± 0.199
450
400
350
300
250

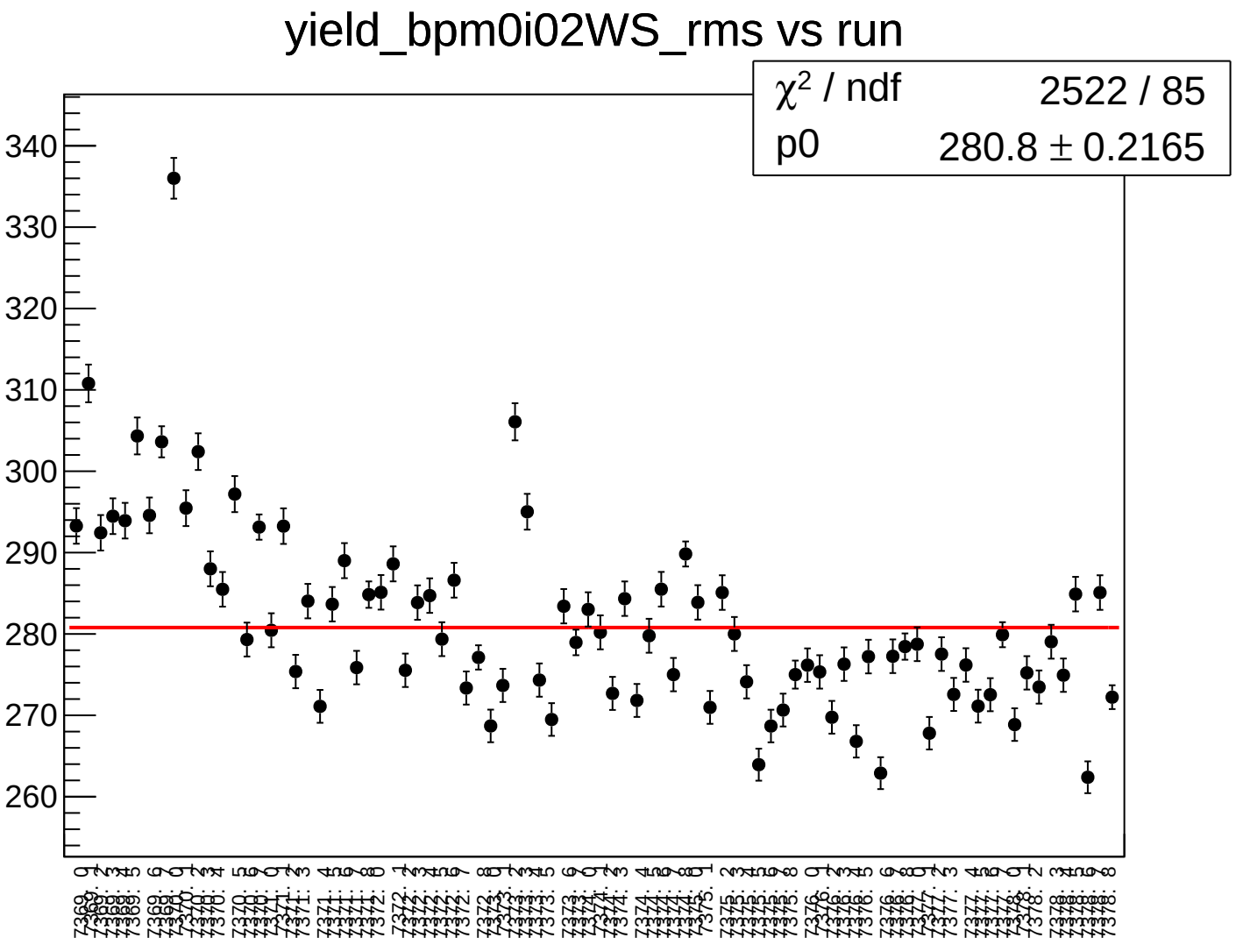

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 6.123e+04 / 85
p0 1.353e+05 ± 0.3848
135.5
135.4
135.3
135.2
135.1
135
pull
Entries 86
Mean −1773
Std Dev 0
60
40
20
0
−20
−40
−60

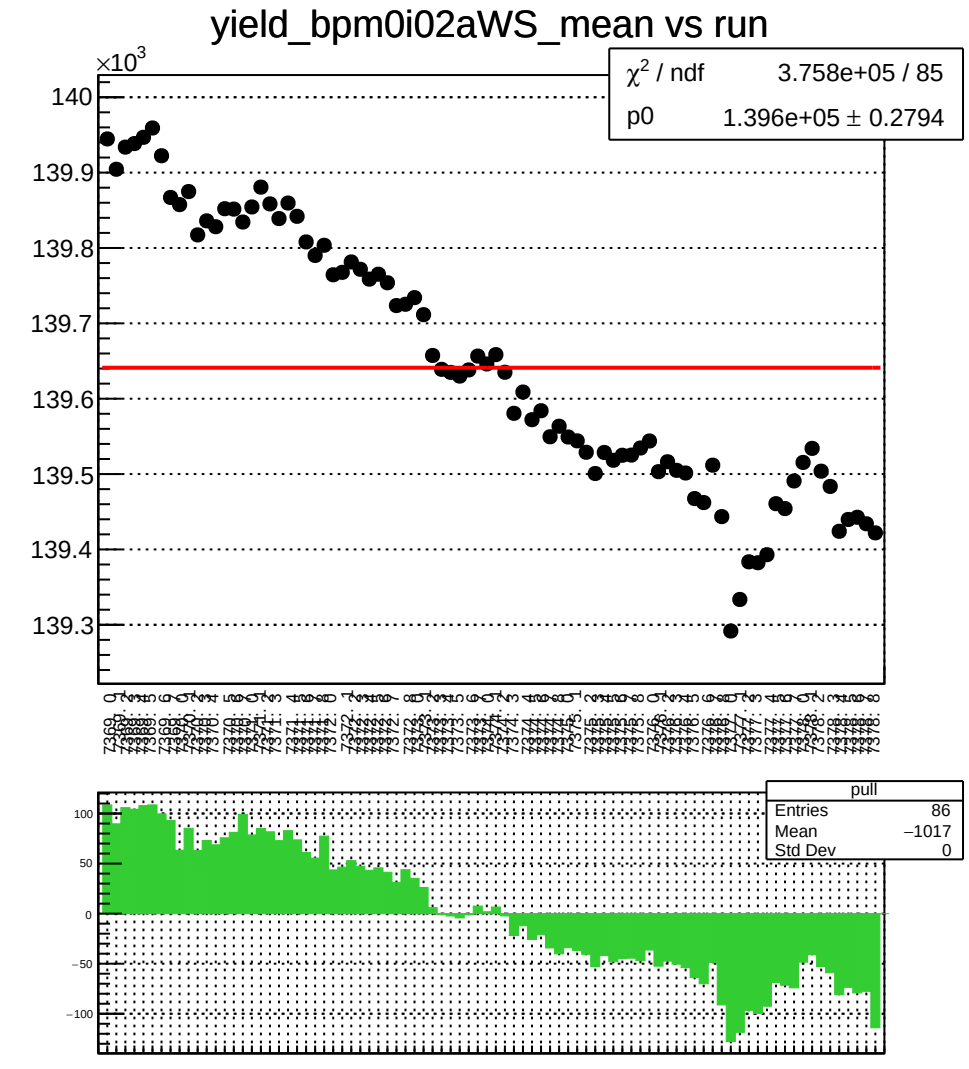

pull1D
Entries 86
Mean −0.4967
Std Dev 3.364
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

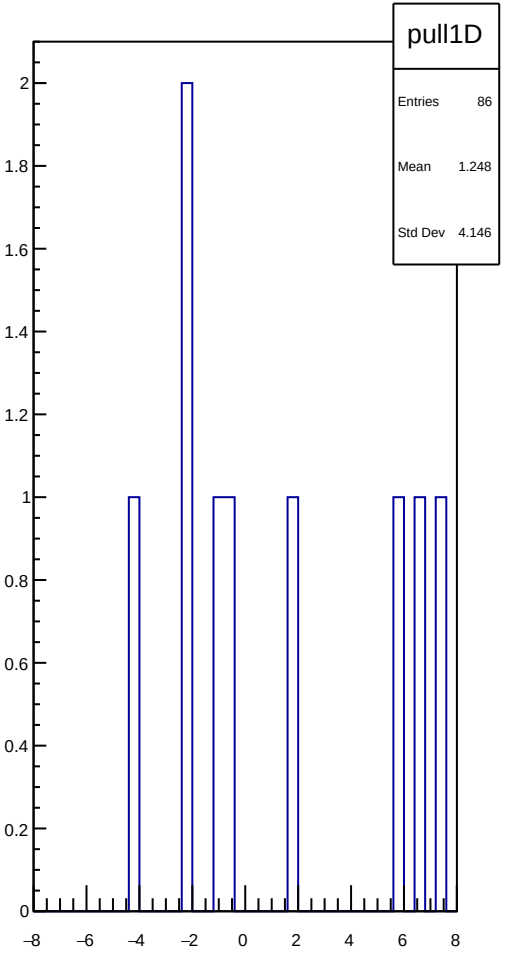

yield_bpm0r05WS_rms vs run
χ² / ndf 1351 / 85
p0 352.9 ± 0.2721
380
370
360
350
340
330

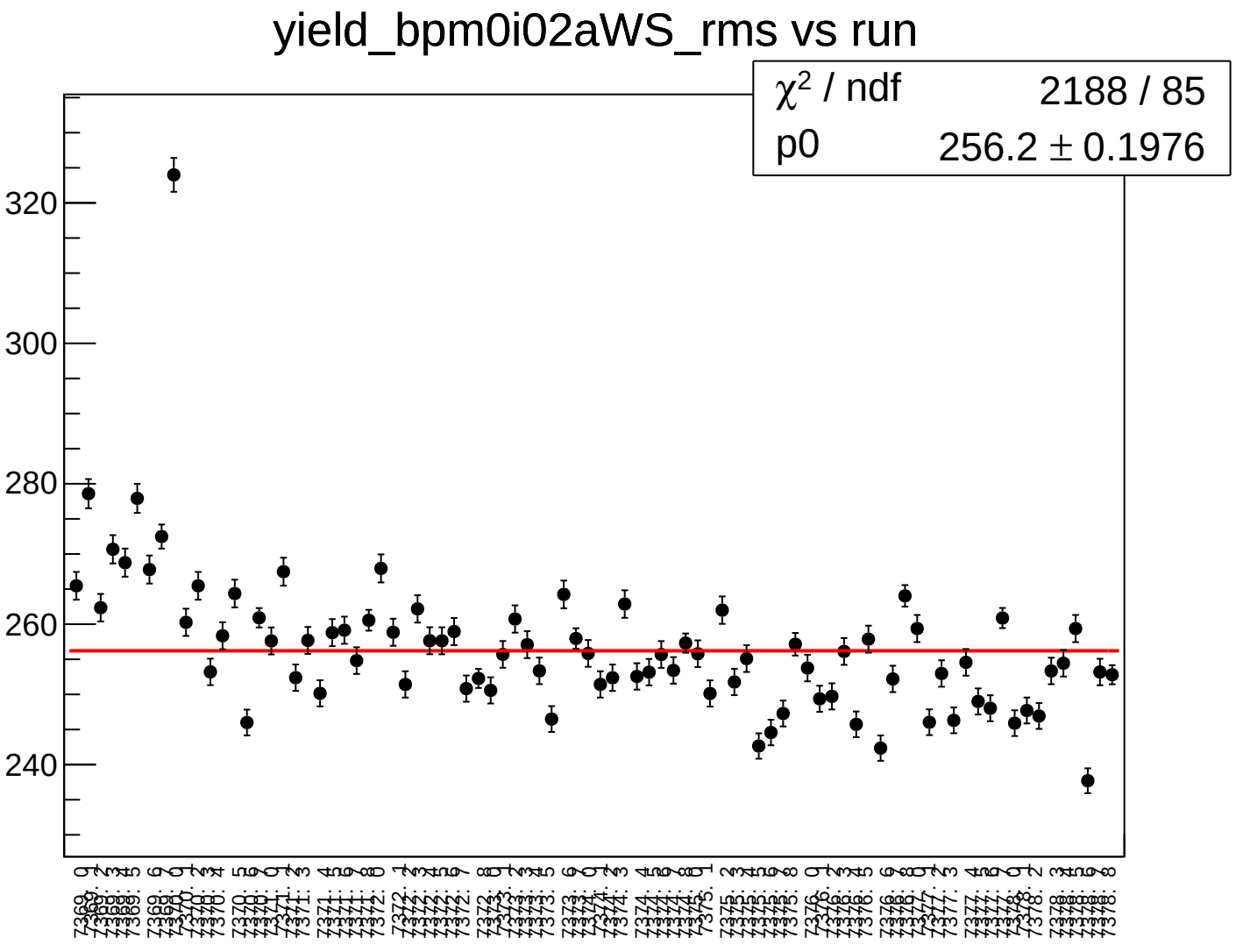

yield_bpm0i02WS_mean vs run
χ² / ndf 9.233e+05 / 85
p0 1.444e+05 ± 0.3062
×10³
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 86
Mean −606.7
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

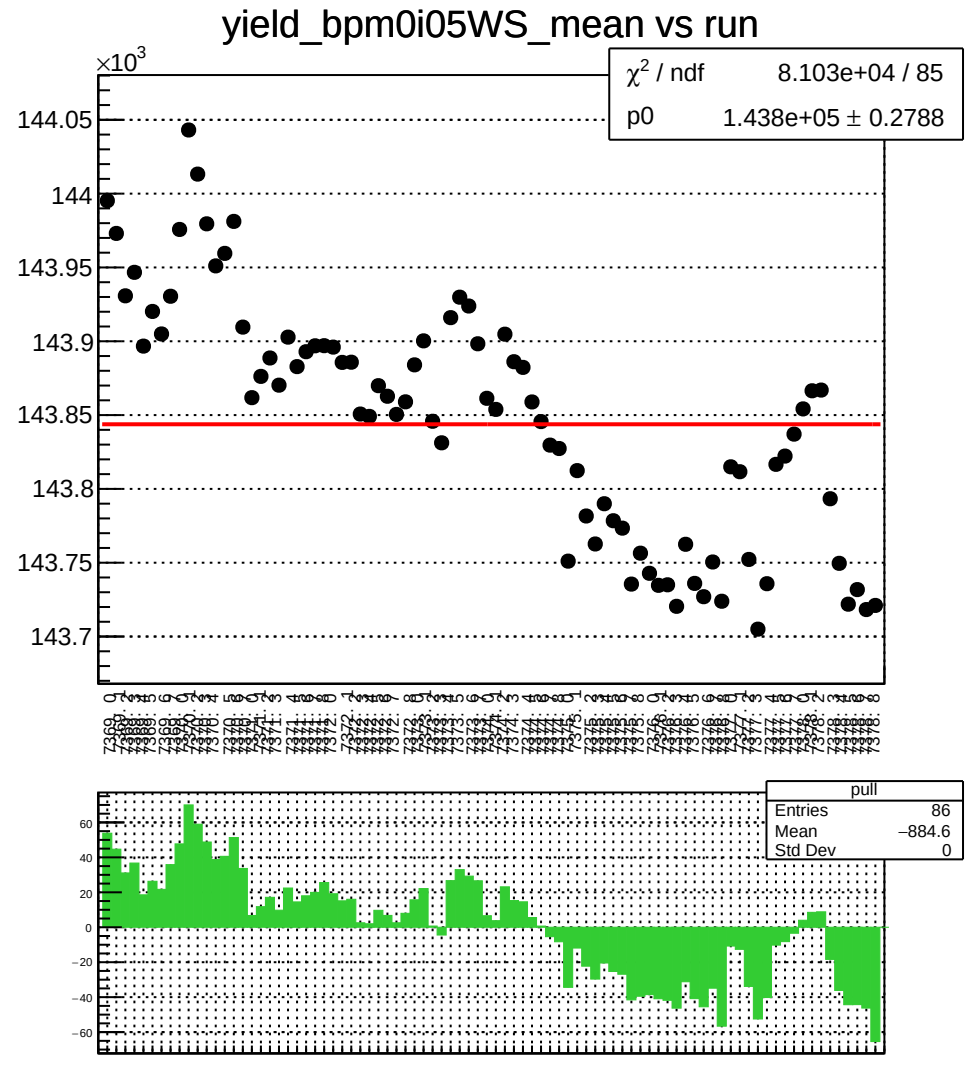

pull1D
Entries 86
Mean 3.824
Std Dev 3.406
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

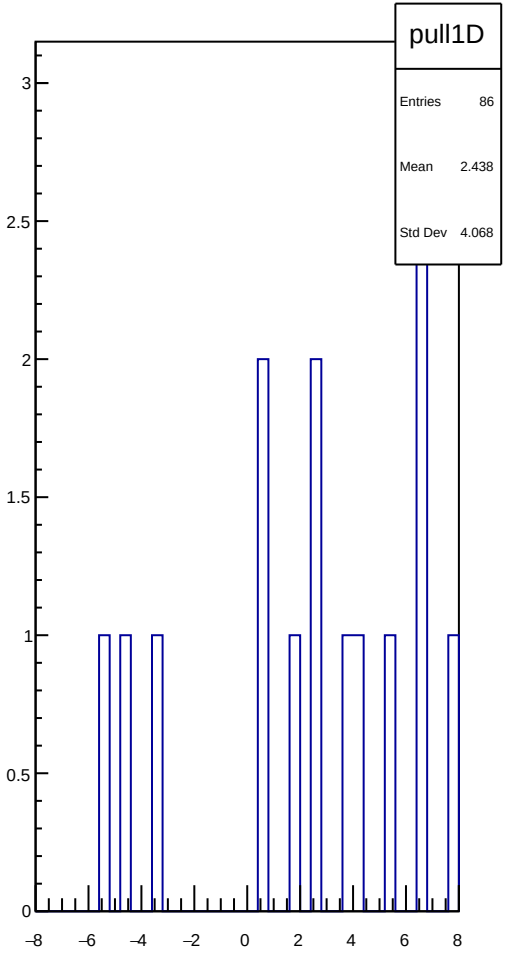

yield_bpm0i02WS_rms vs run
χ² / ndf 2522 / 85
p0 280.8 ± 0.2165
340
330
320
310
300
290
280
270
260

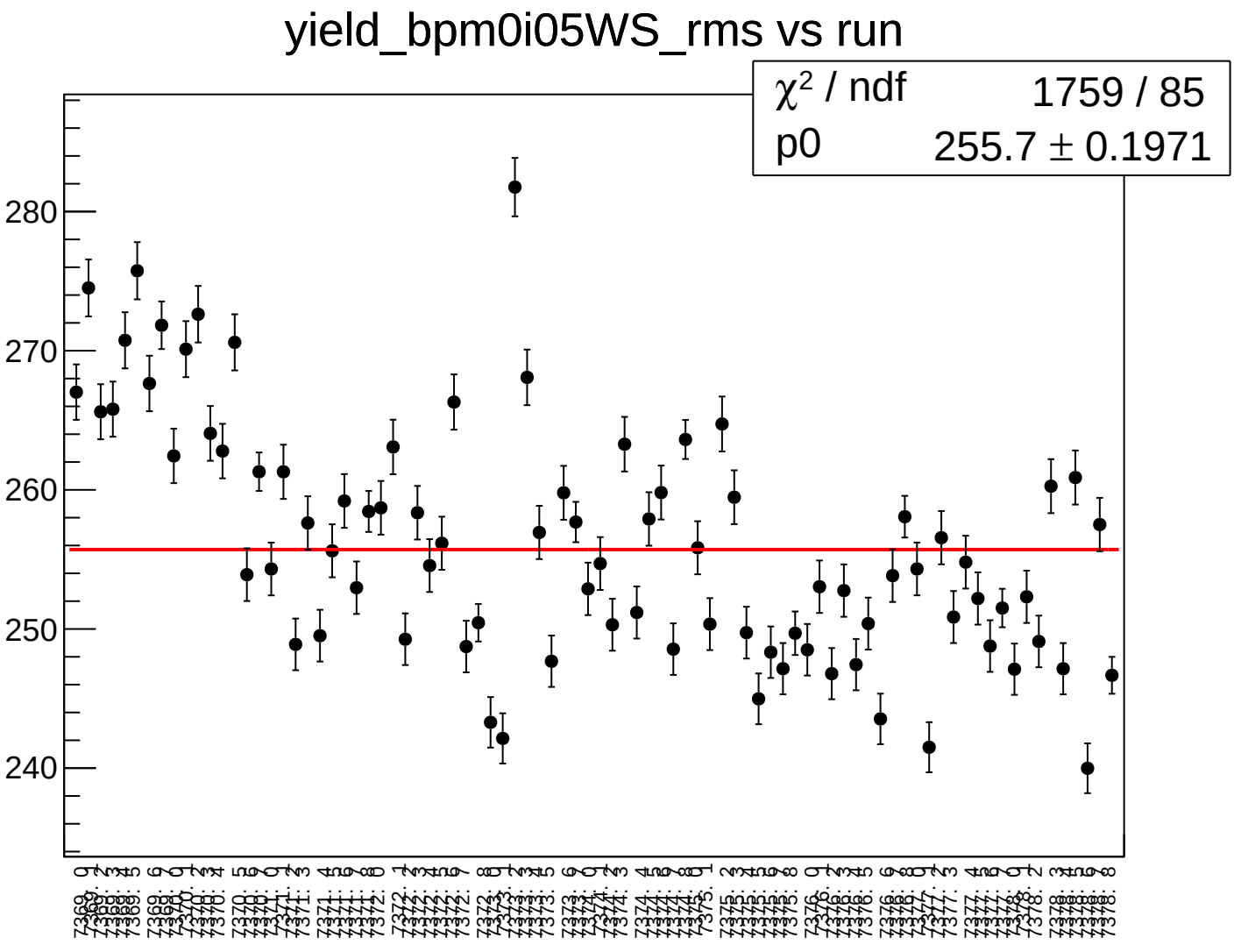

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3.758e+05 / 85
p0 1.396e+05 ± 0.2794
140
139.9
139.8
139.7
139.6
139.5
139.4
139.3
pull
Entries 86
Mean −1017
Std Dev 0
100
50
0
−50
−100

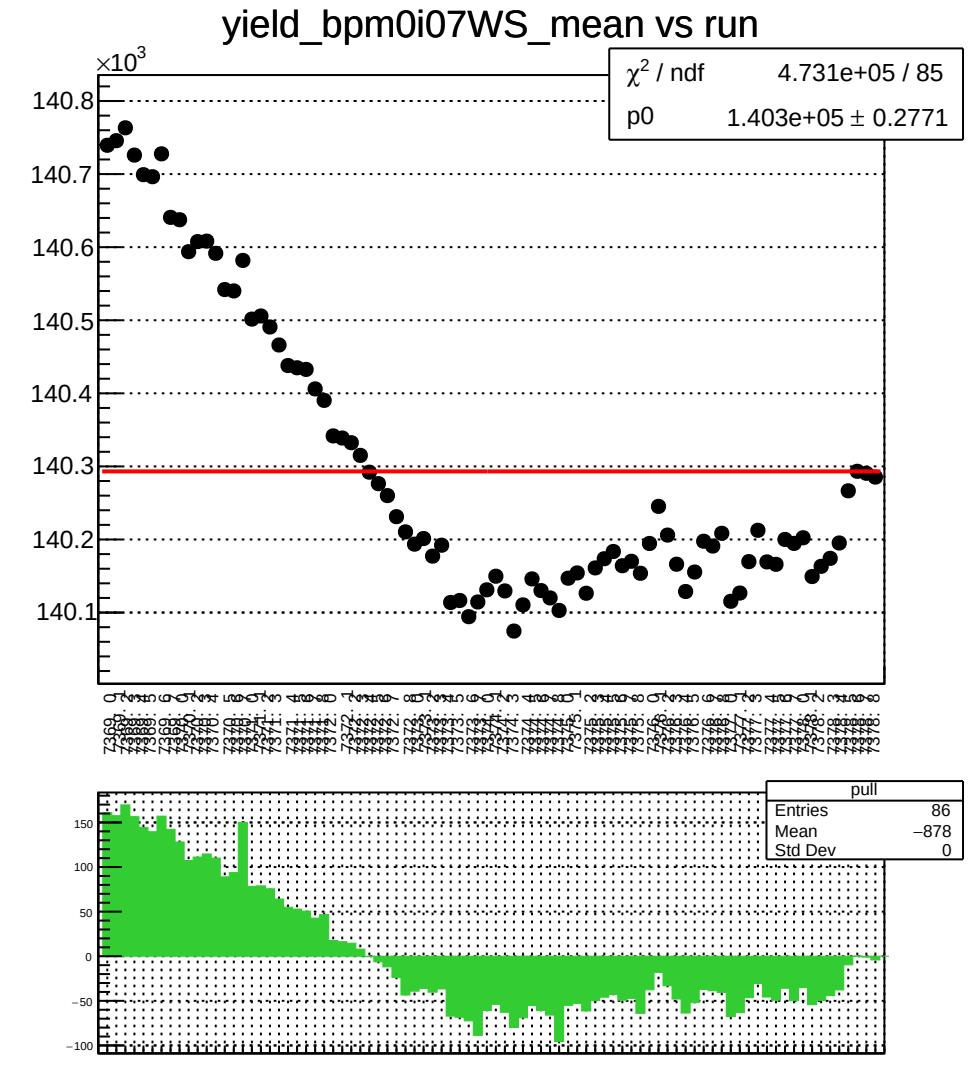

pull1D
Entries 86
Mean 1.248
Std Dev 4.146
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

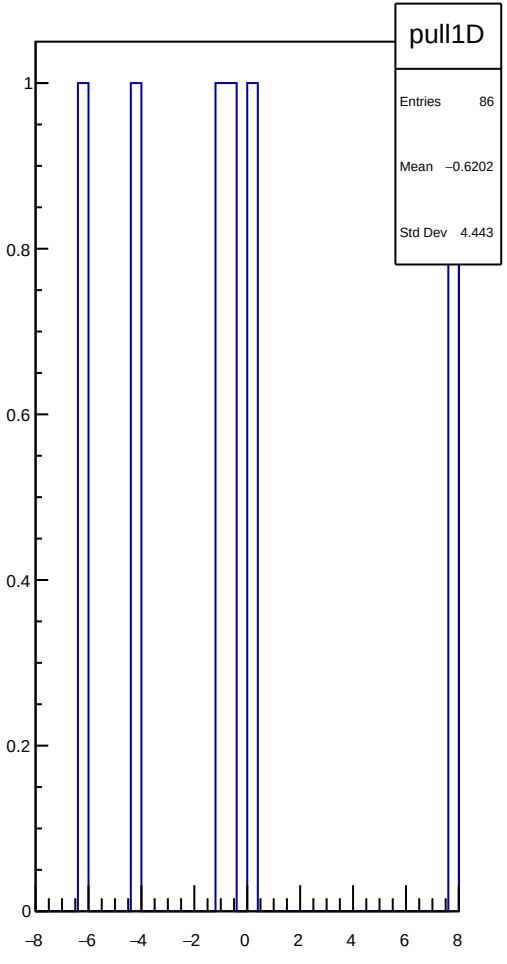

yield_bpm0i02aWS_rms vs run
χ² / ndf 2188 / 85
p0 256.2 ± 0.1976
320
300
280
260
240

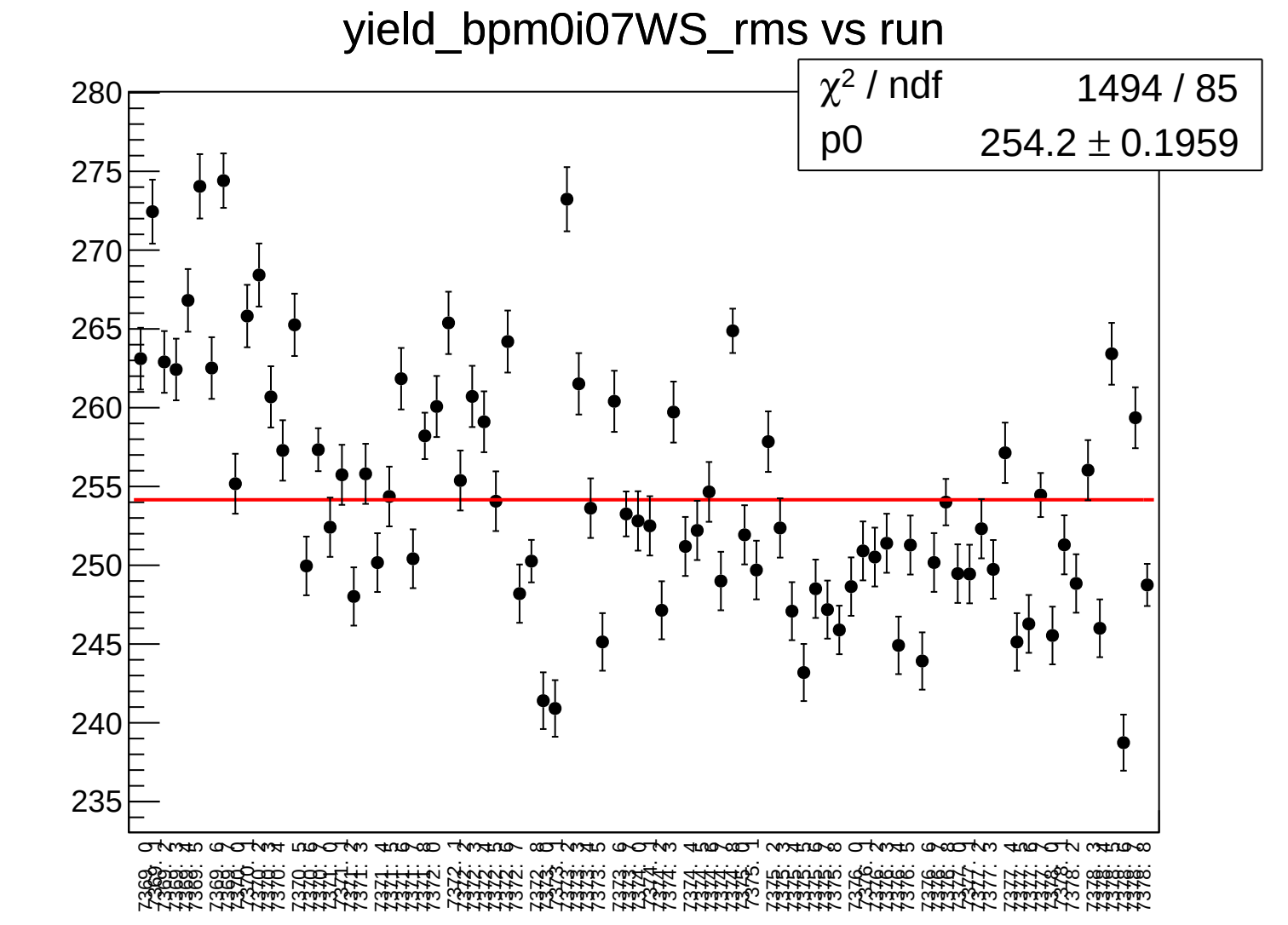

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 8.103e+04 / 85
p0 1.438e+05 ± 0.2788
144.05
144
143.95
143.9
143.85
143.8
143.75
143.7
pull
Entries 86
Mean −884.6
Std Dev 0
60
40
20
0
−20
−40
−60

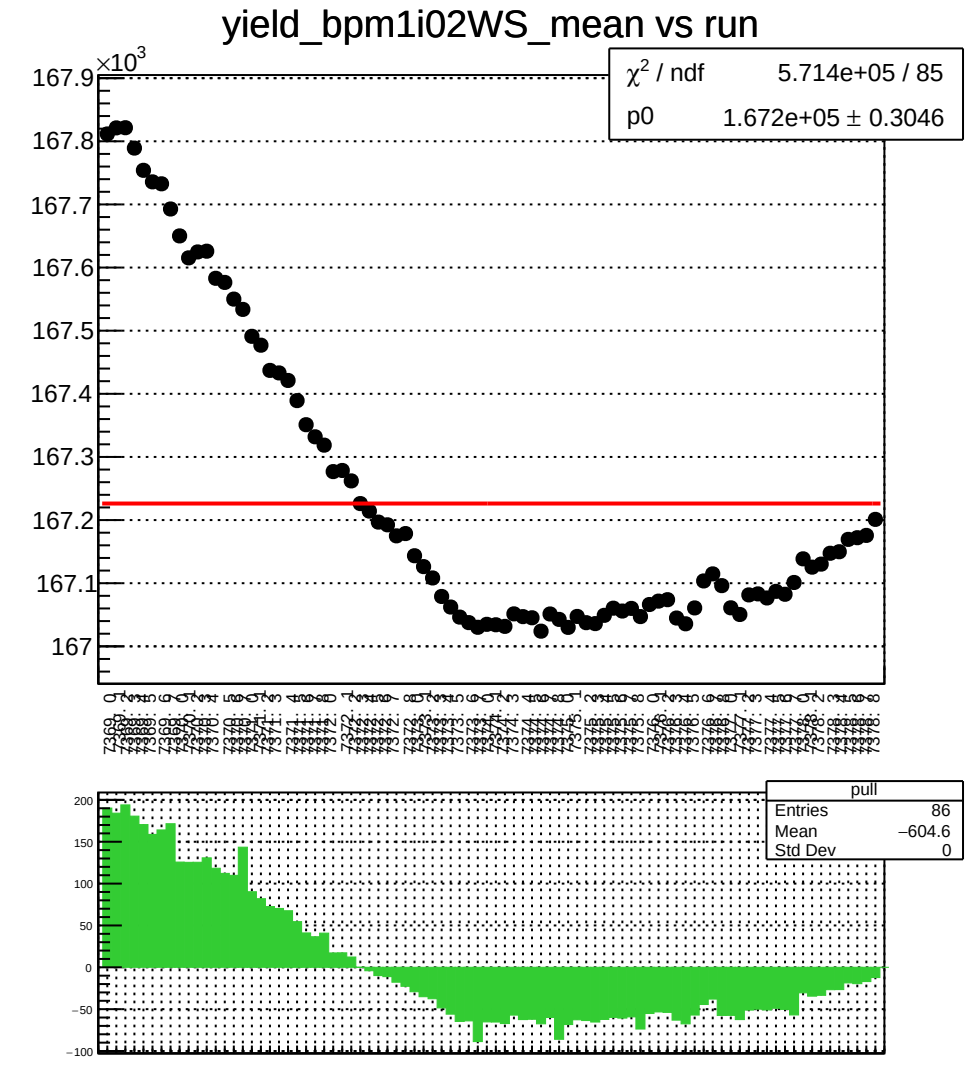

pull1D
Entries 86
Mean 2.438
Std Dev 4.068
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

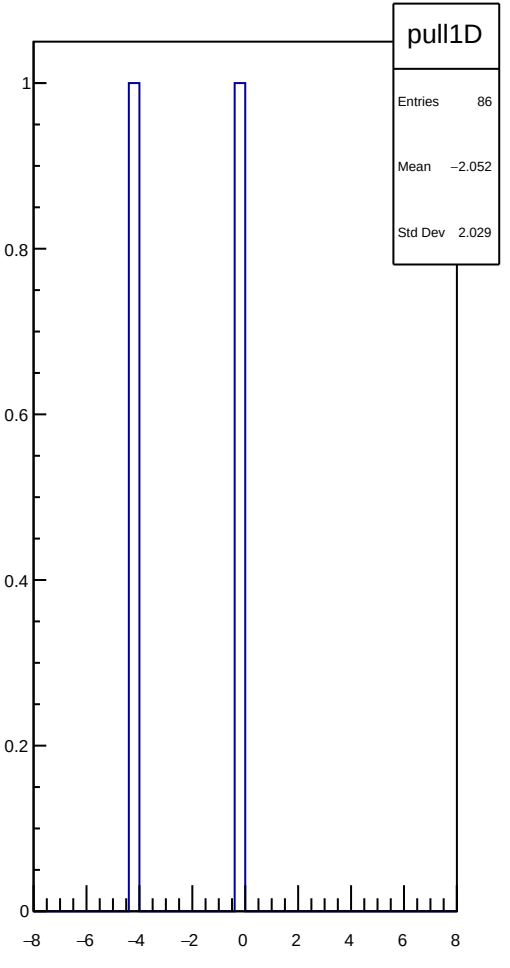

yield_bpm0i05WS_rms vs run
χ² / ndf 1759 / 85
p0 255.7 ± 0.1971
280
270
260
250
240

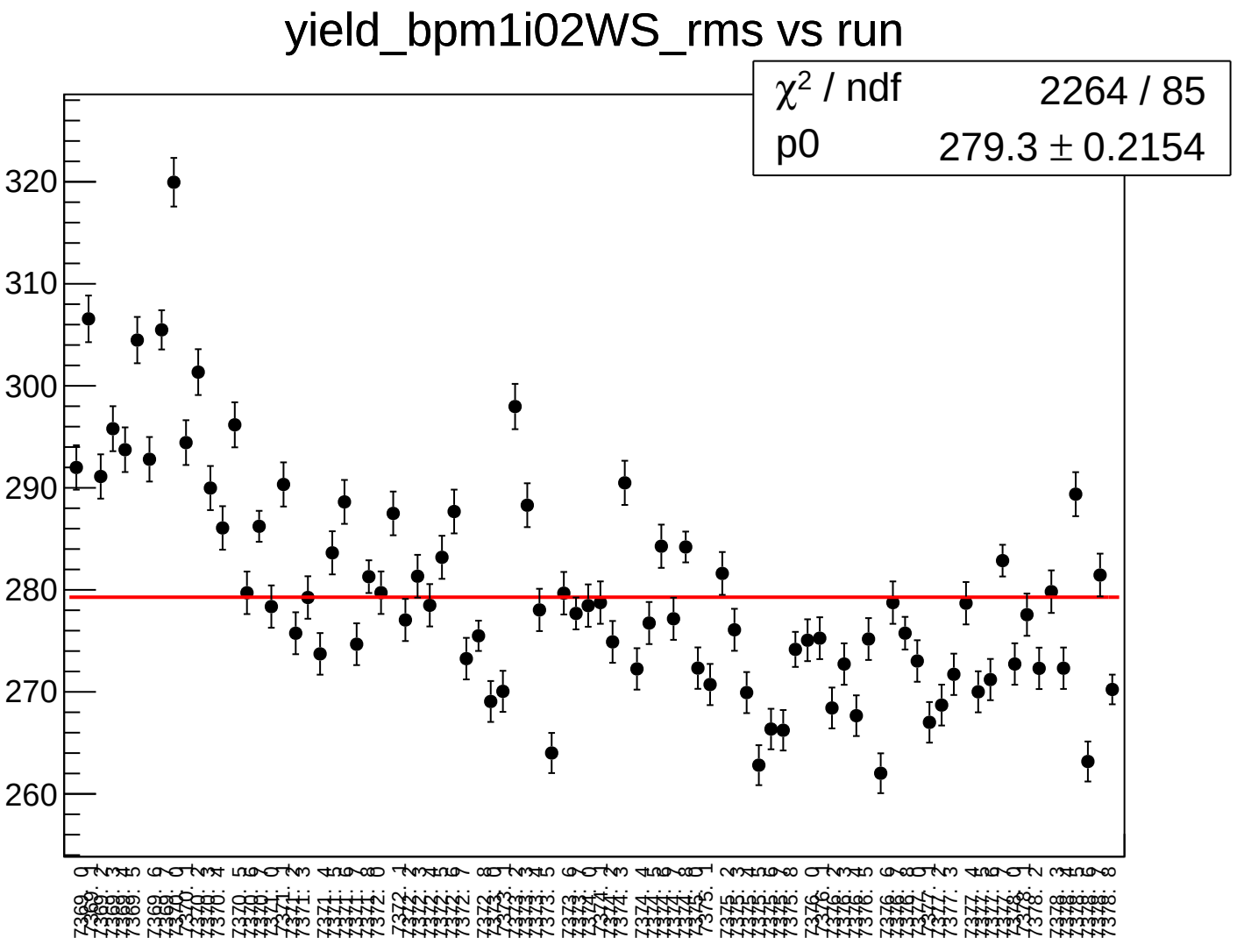

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.731e+05 / 85
p0 1.403e+05 ± 0.2771
140.8
140.7
140.6
140.5
140.4
140.3
140.2
140.1
pull
Entries 86
Mean −878
Std Dev 0
150
100
50
0
−50
−100

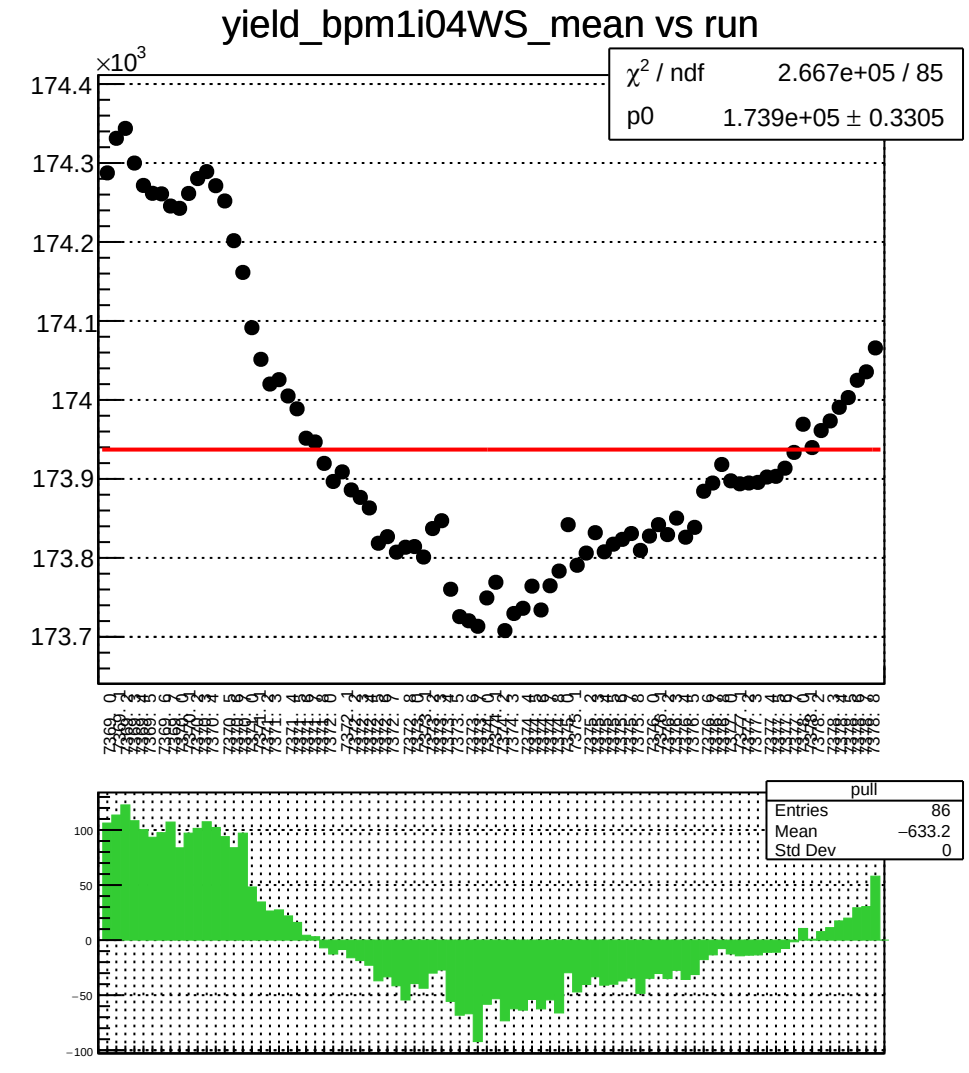

pull1D
Entries 86
Mean −0.6202
Std Dev 4.443
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

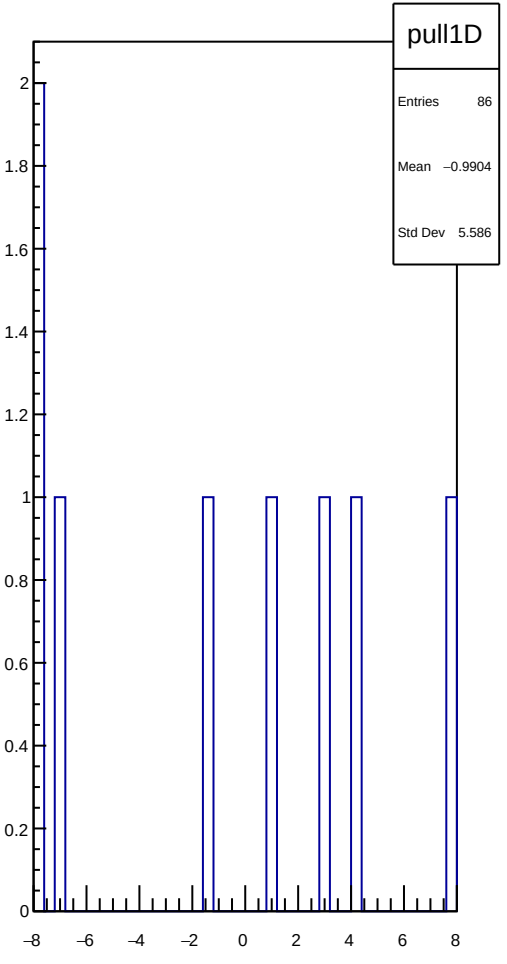

yield_bpm0i07WS_rms vs run
χ² / ndf 1494 / 85
p0 254.2 ± 0.1959
280
275
270
265
260
255
250
245
240
235

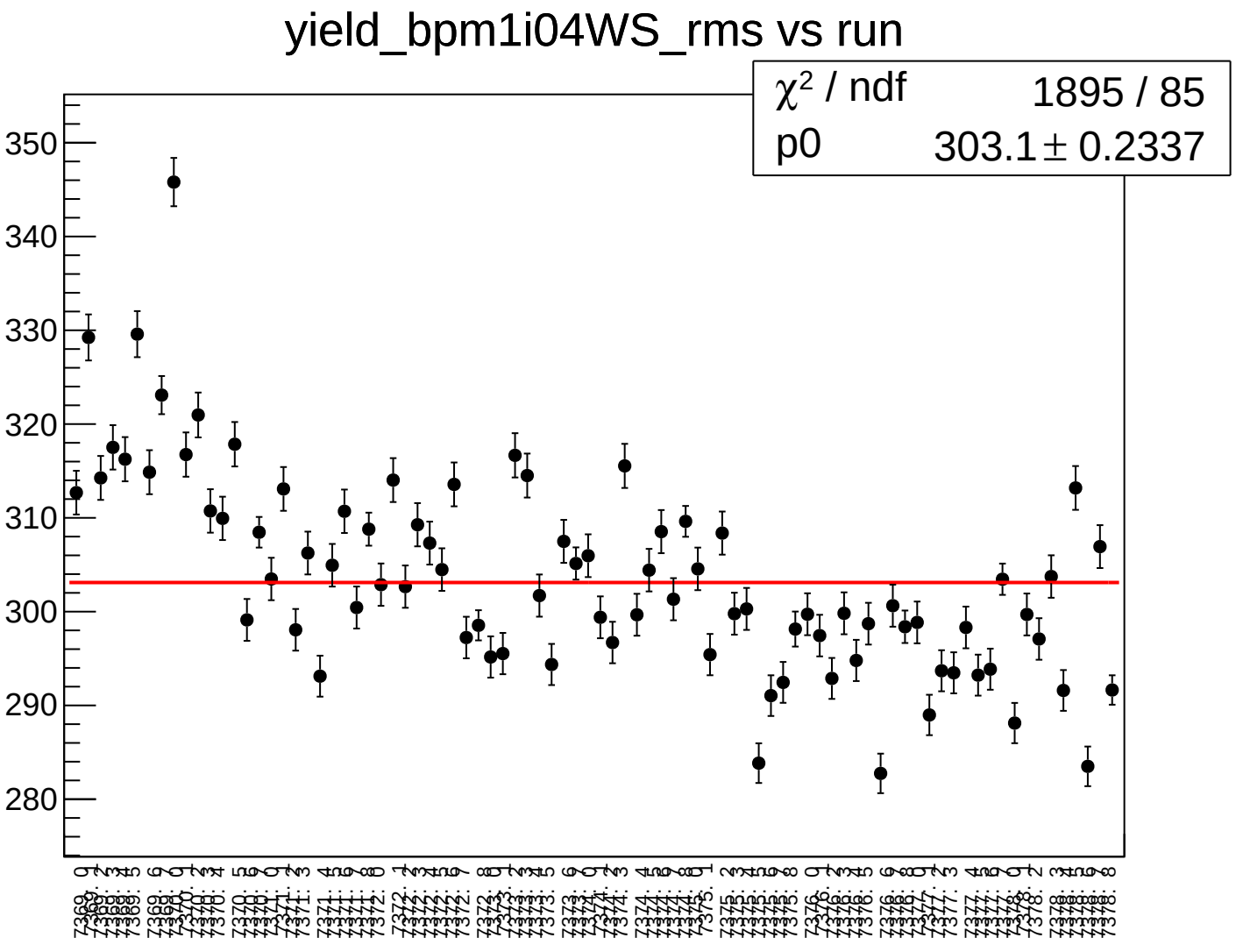

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 5.714e+05 / 85
p0 1.672e+05 ± 0.3046
167.9
167.8
167.7
167.6
167.5
167.4
167.3
167.2
167.1
167
pull
Entries 86
Mean −604.6
Std Dev 0
200
150
100
50
0
−50
−100

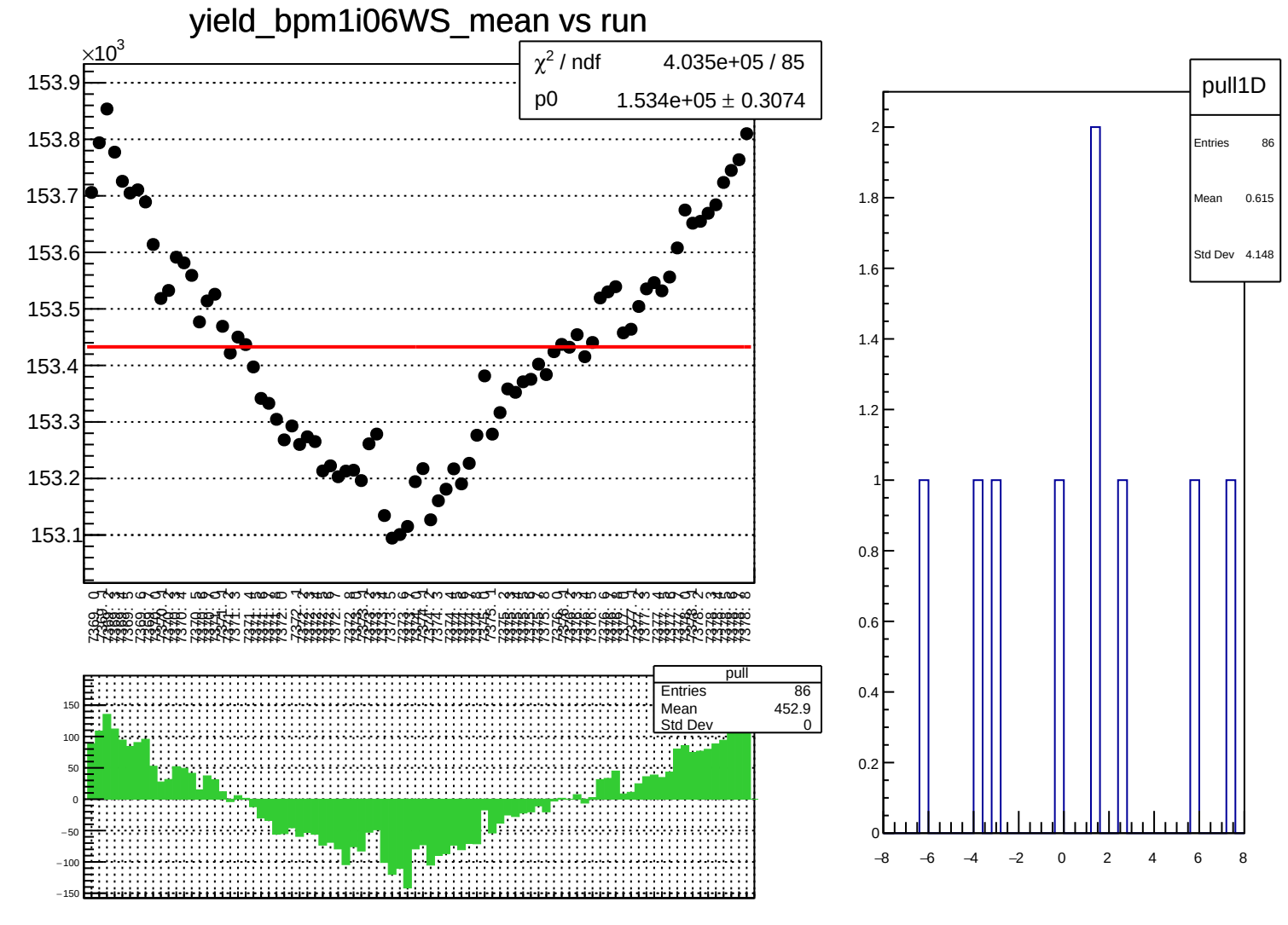

pull1D
Entries 86
Mean −2.052
Std Dev 2.029
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

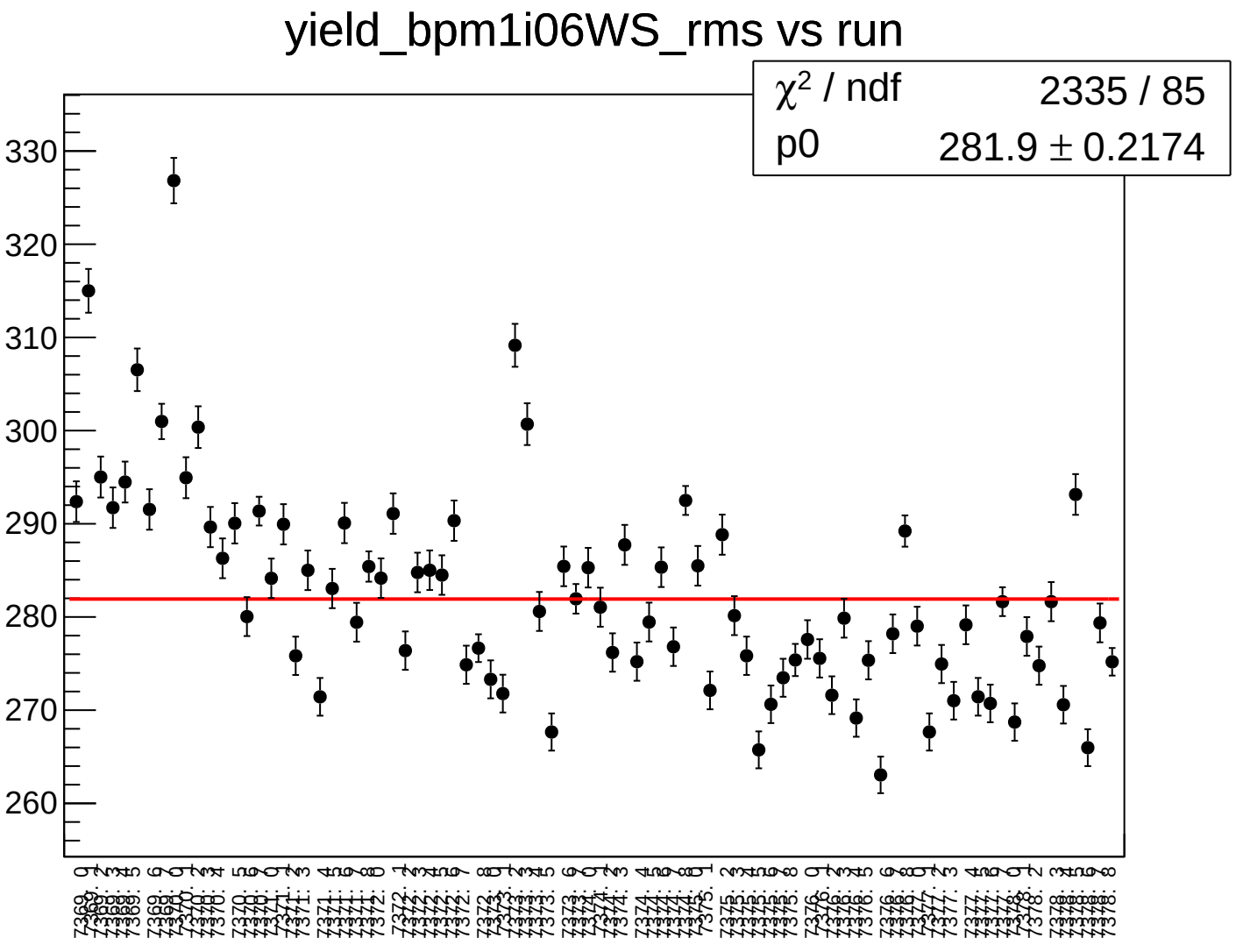

yield_bpm1i02WS_rms vs run
χ² / ndf 2264 / 85
p0 279.3 ± 0.2154
320
310
300
290
280
270
260

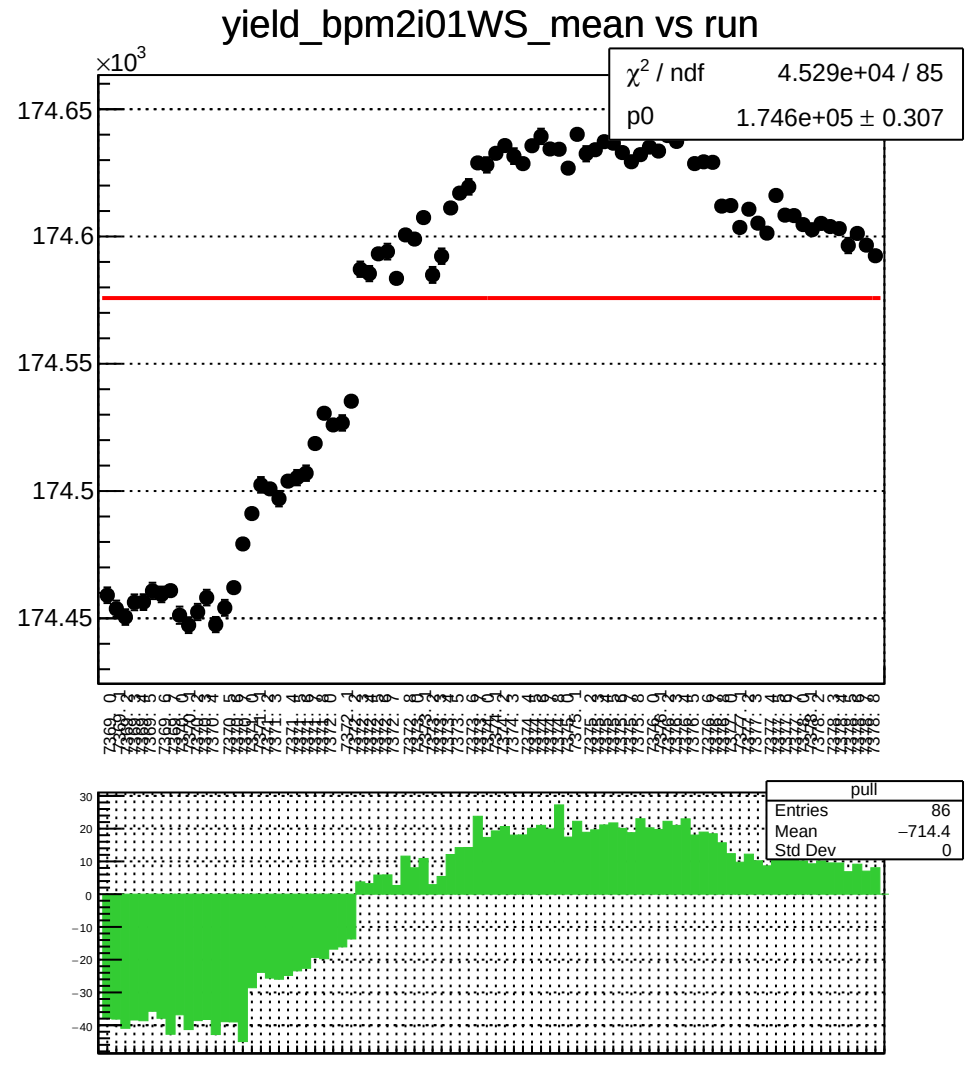

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 2.667e+05 / 85
p0 1.739e+05 ± 0.3305
174.4
174.3
174.2
174.1
174
173.9
173.8
173.7
pull
Entries 86
Mean −633.2
Std Dev 0
100
50
0
−50
−100

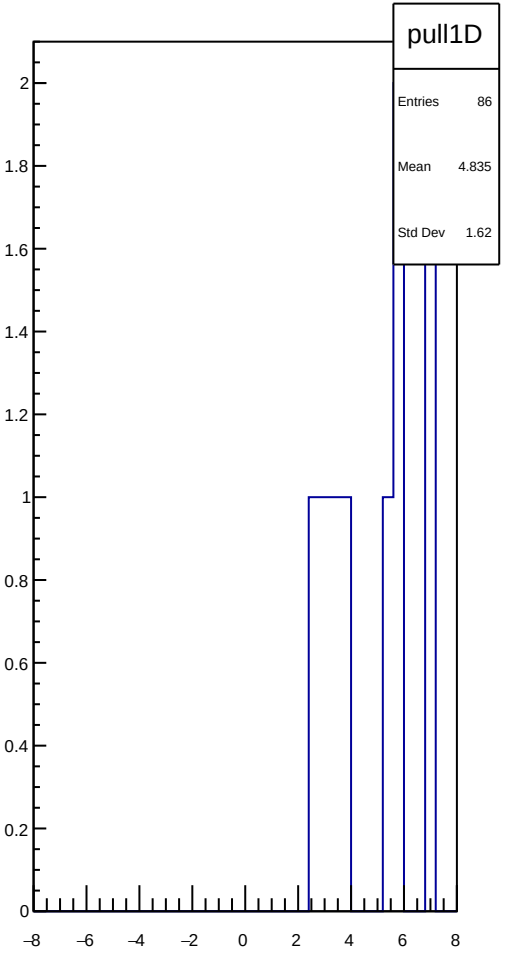

pull1D
Entries 86
Mean −0.9904
Std Dev 5.586
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

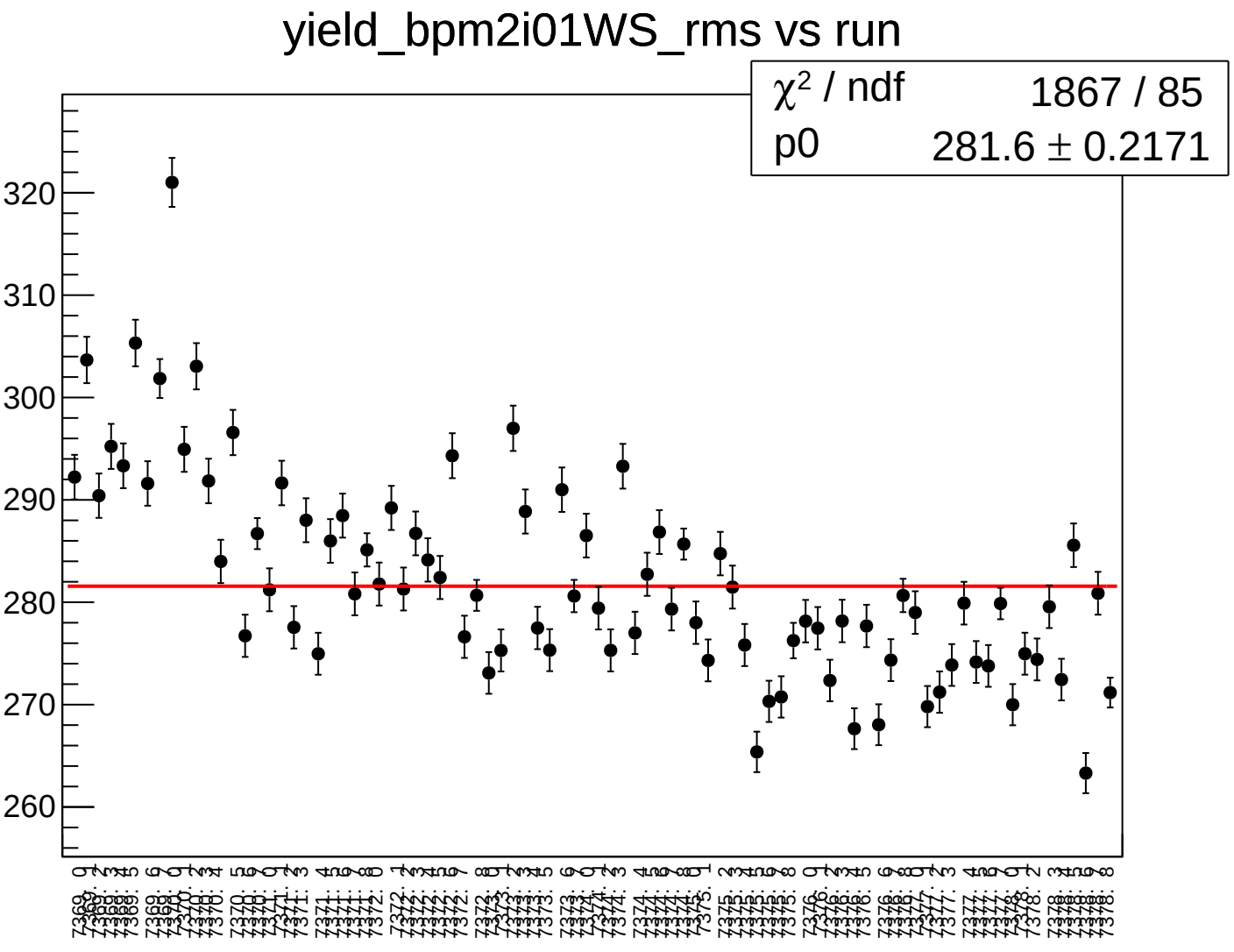

yield_bpm1i04WS_rms vs run
χ² / ndf 1895 / 85
p0 303.1 ± 0.2337
350
340
330
320
310
300
290
280

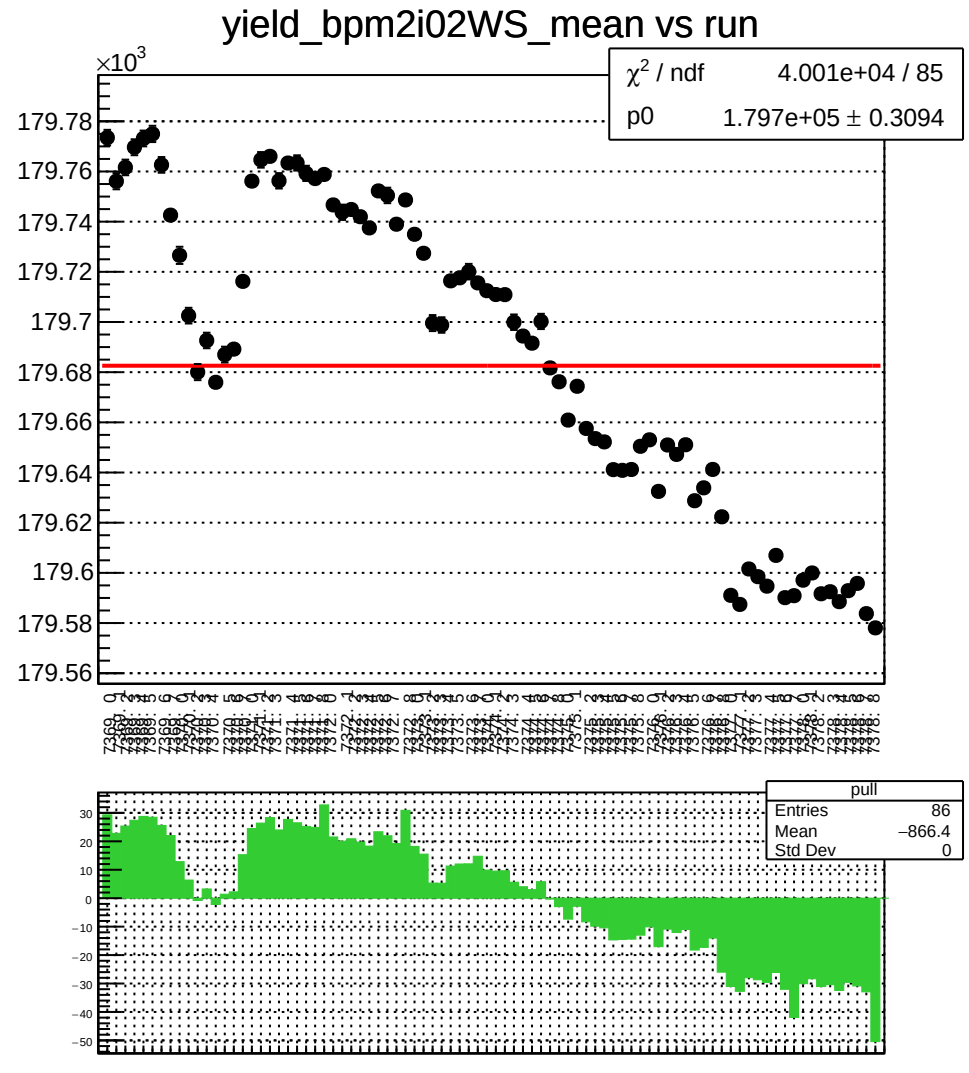

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 4.035e+05 / 85
p0 1.534e+05 ± 0.3074
153.9
153.8
153.7
153.6
153.5
153.4
153.3
153.2
153.1
pull
Entries 86
Mean 452.9
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 86
Mean 0.615
Std Dev 4.148
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

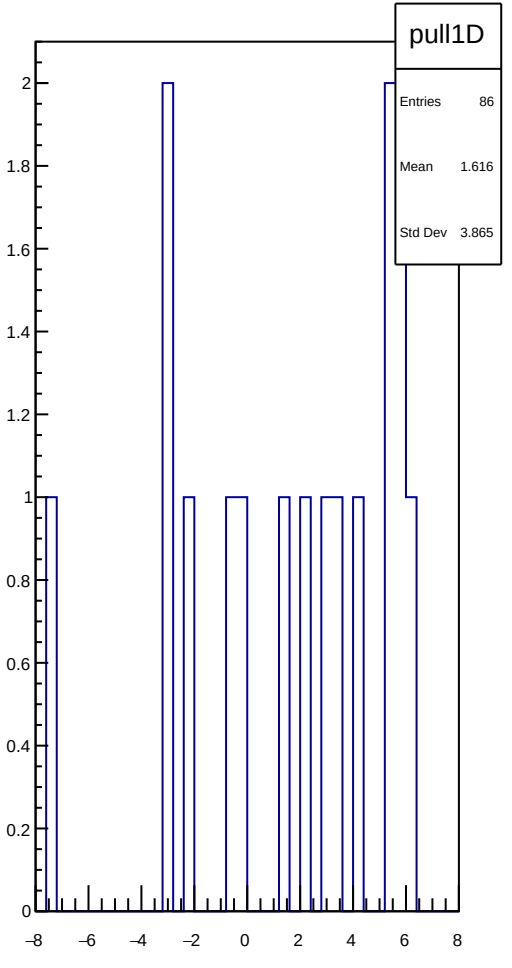

yield_bpm1i06WS_rms vs run
χ² / ndf 2335 / 85
p0 281.9 ± 0.2174
330
320
310
300
290
280
270
260

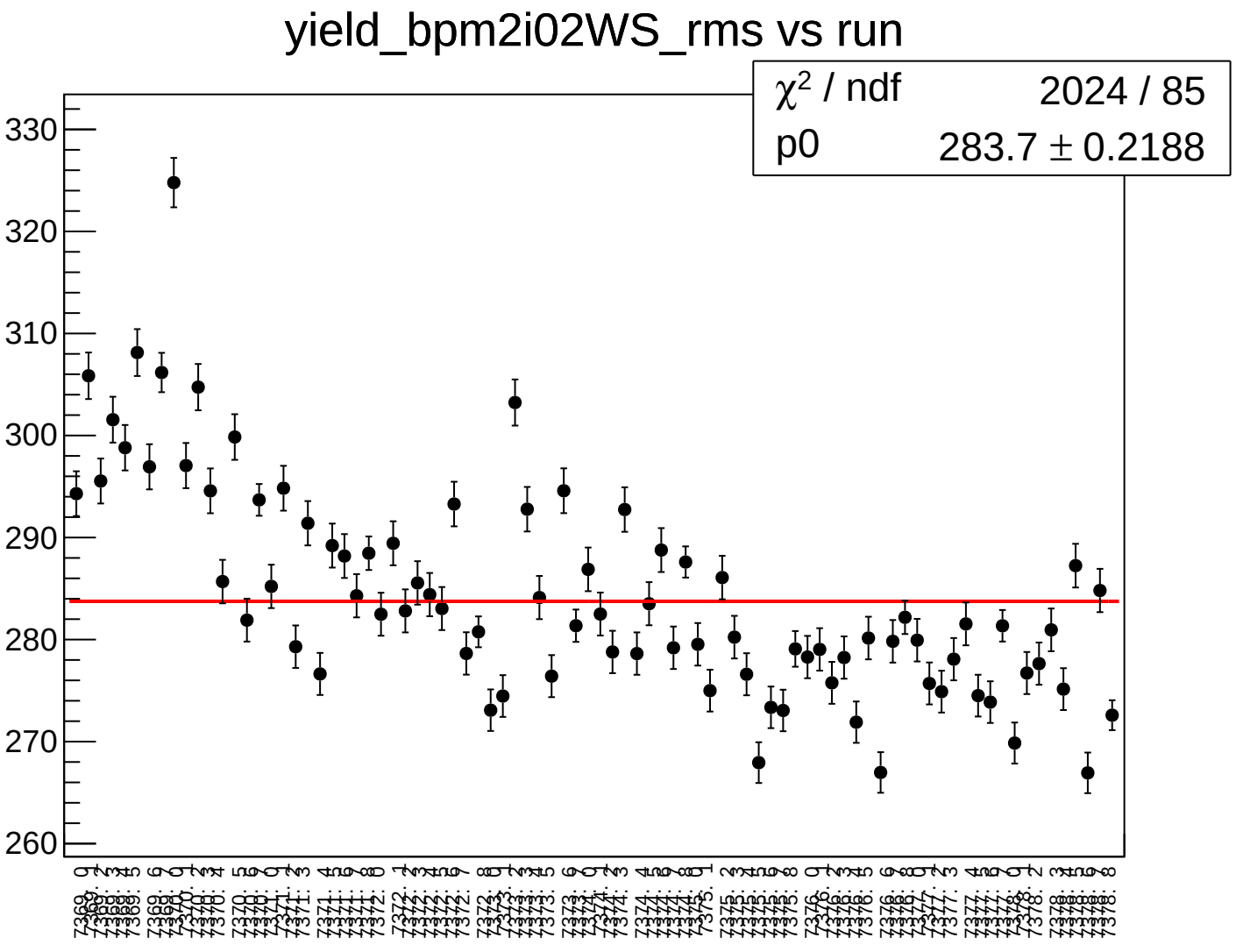

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4.529e+04 / 85
p0 1.746e+05 ± 0.307
174.65
174.6
174.55
174.5
174.45
pull
Entries 86
Mean −714.4
Std Dev 0
30
20
10
0
−10
−20
−30
−40

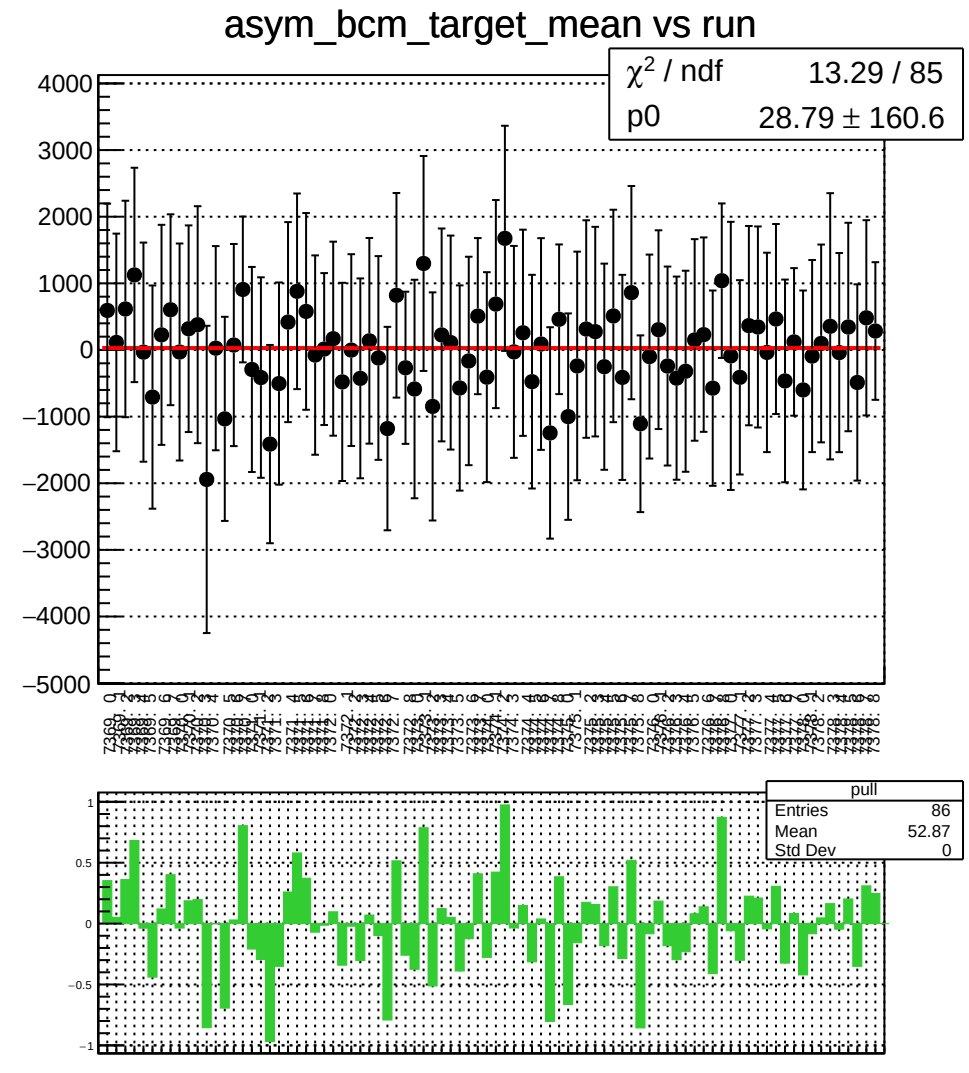

pull1D
Entries 86
Mean 4.835
Std Dev 1.62
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

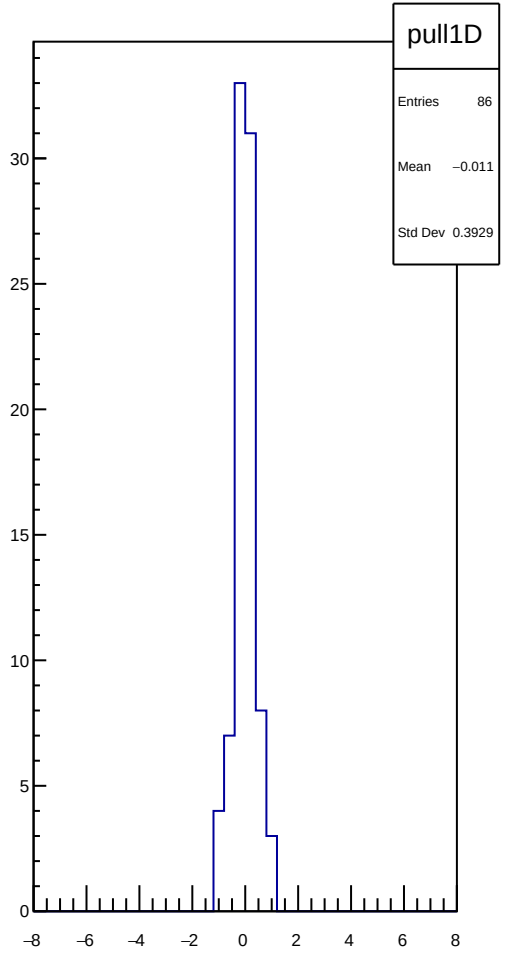

yield_bpm2i01WS_rms vs run
χ² / ndf 1867 / 85
p0 281.6 ± 0.2171
320
310
300
290
280
270
260

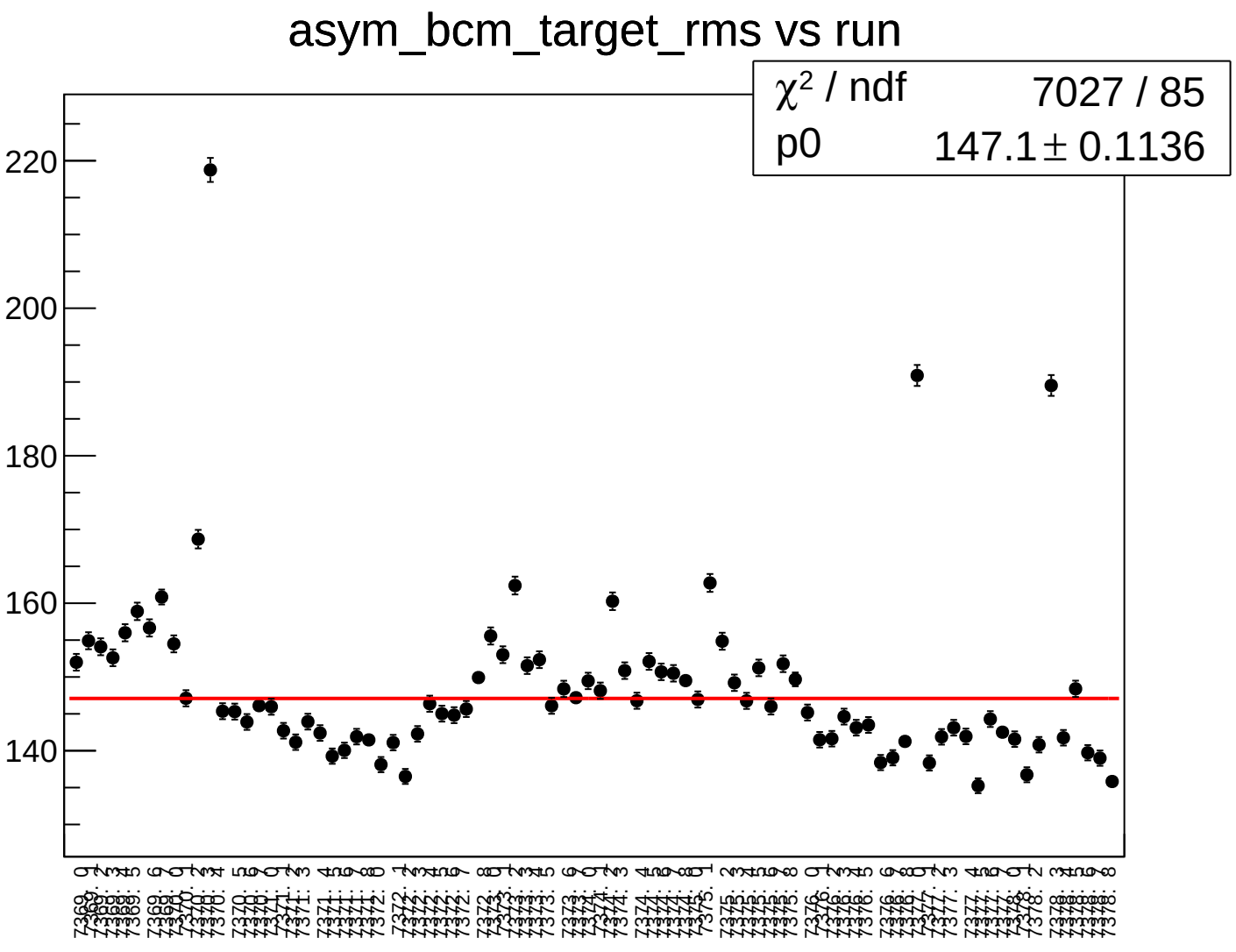

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 4.001e+04 / 85
p0 1.797e+05 ± 0.3094
179.78
179.76
179.74
179.72
179.7
179.68
179.66
179.64
179.62
179.6
179.58
179.56
pull
Entries 86
Mean −866.4
Std Dev 0
30
20
10
0
−10
−20
−30
−40
−50

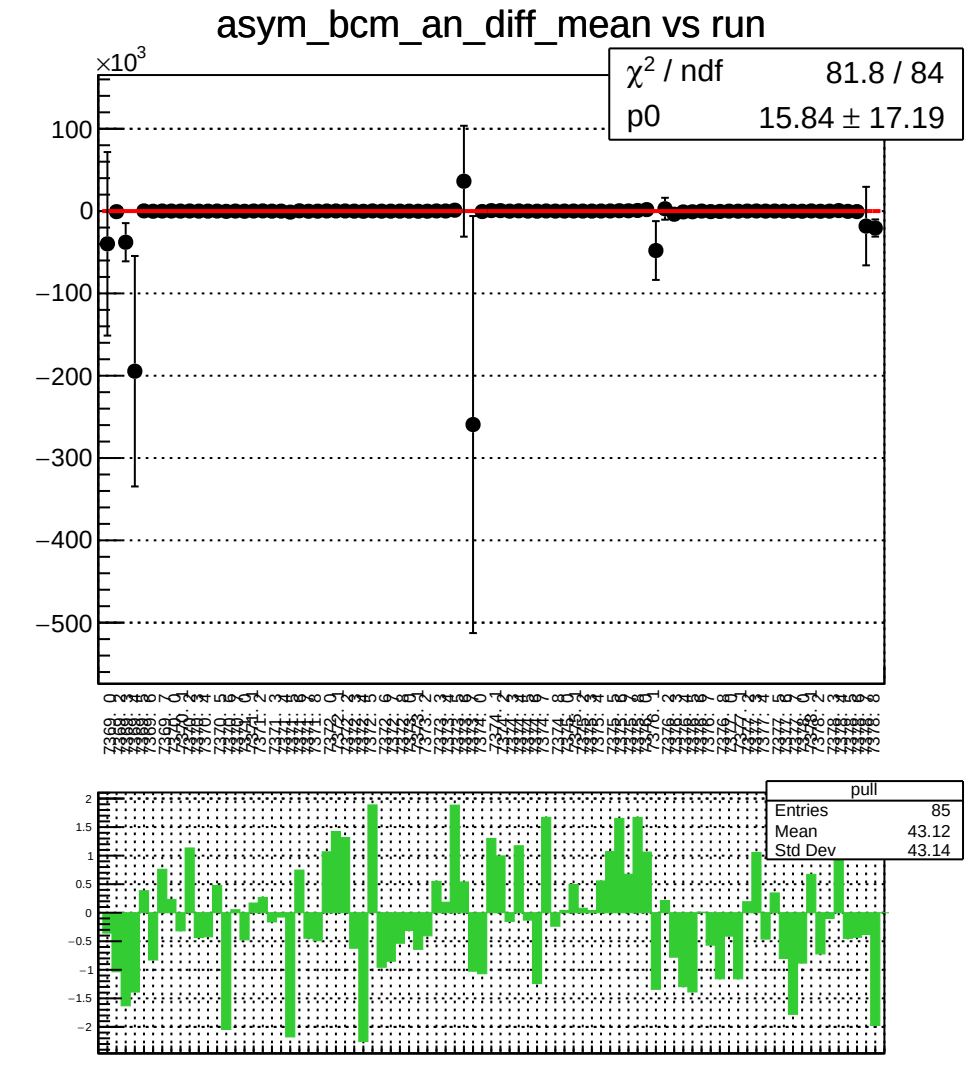

pull1D
Entries 86
Mean 1.616
Std Dev 3.865
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

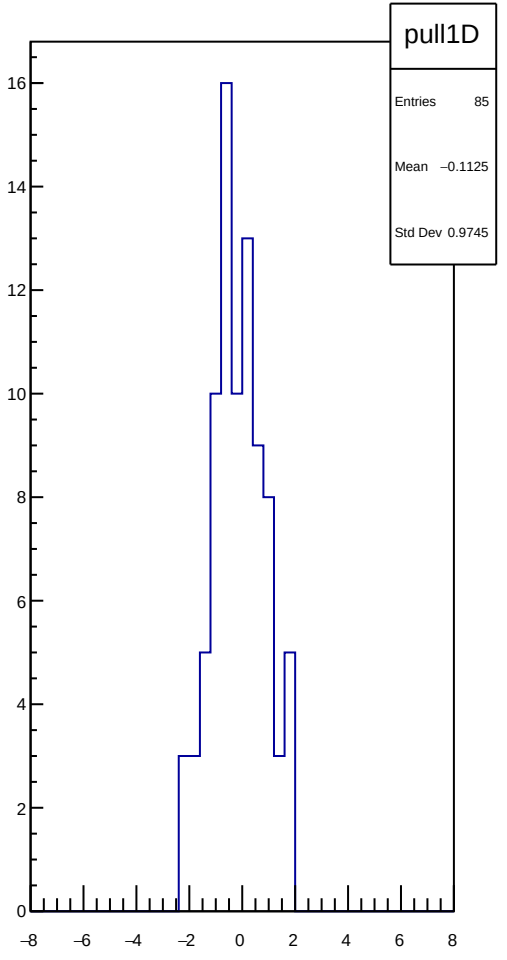

yield_bpm2i02WS_rms vs run
χ² / ndf 2024 / 85
p0 283.7 ± 0.2188
330
320
310
300
290
280
270
260

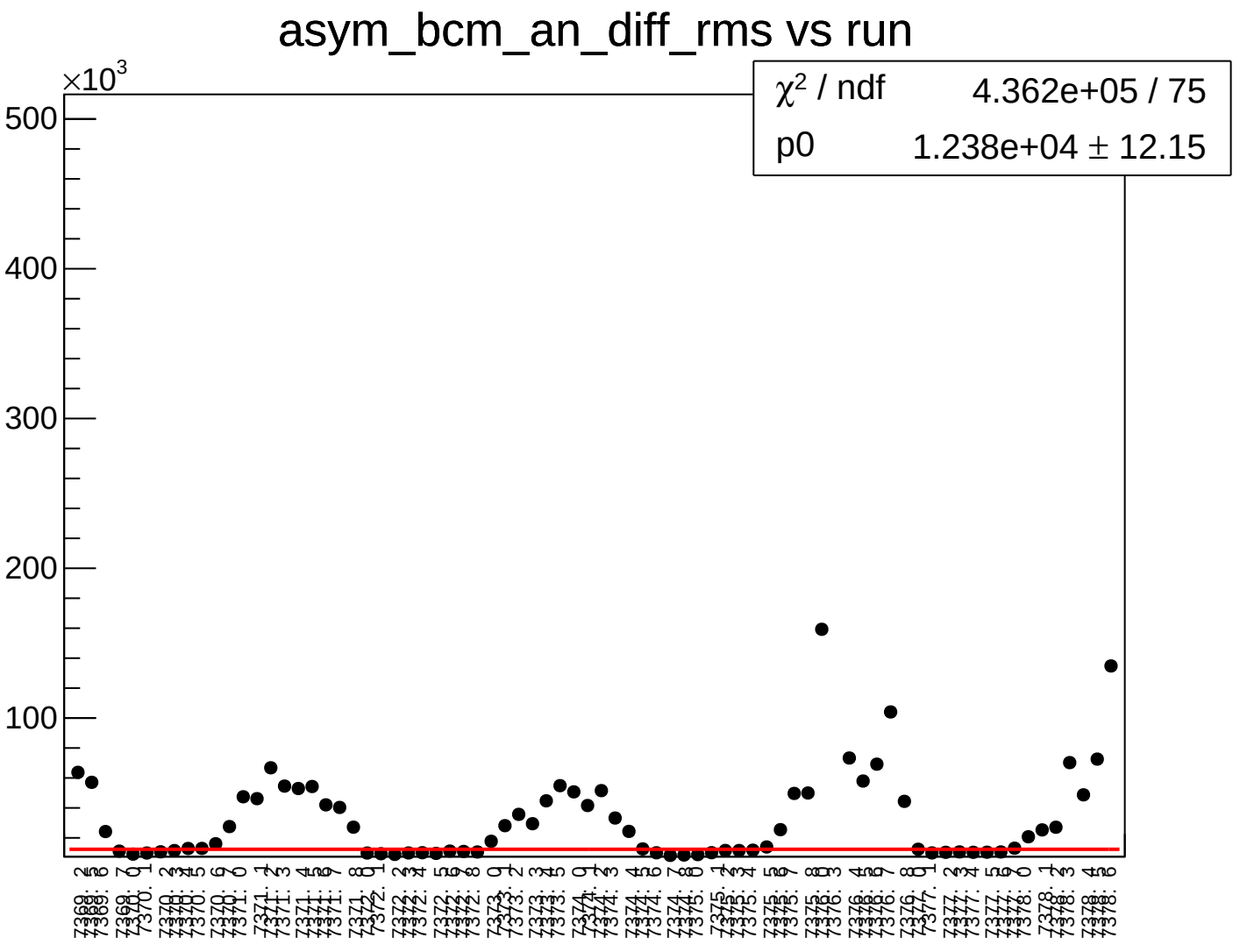

asym_bcm_target_mean vs run
χ² / ndf 13.29 / 85
p0 28.79 ± 160.6
pull
Entries 86
Mean 52.87
Std Dev 0

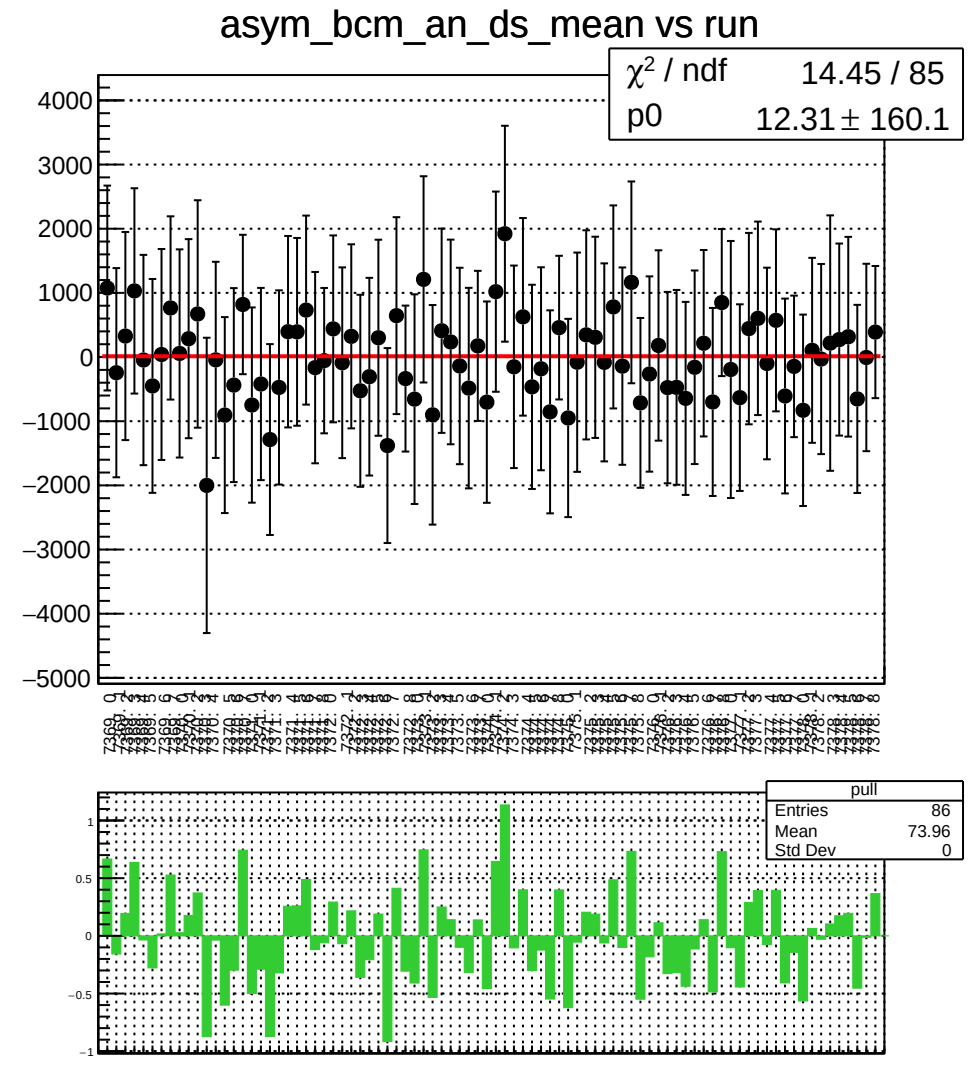

pull1D
Entries 86
Mean −0.011
Std Dev 0.3929

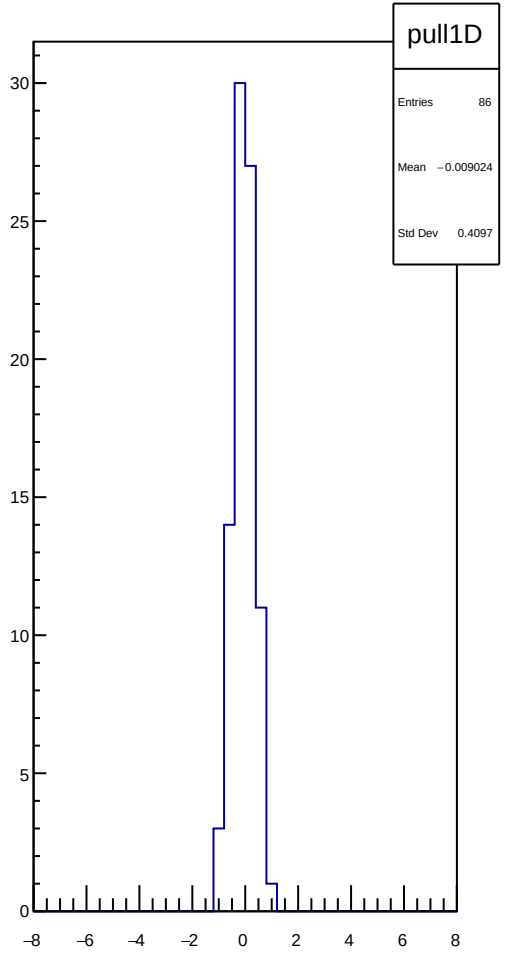

asym_bcm_target_rms vs run
χ² / ndf 7027 / 85
p0 147.1 ± 0.1136
220
200
180
160
140

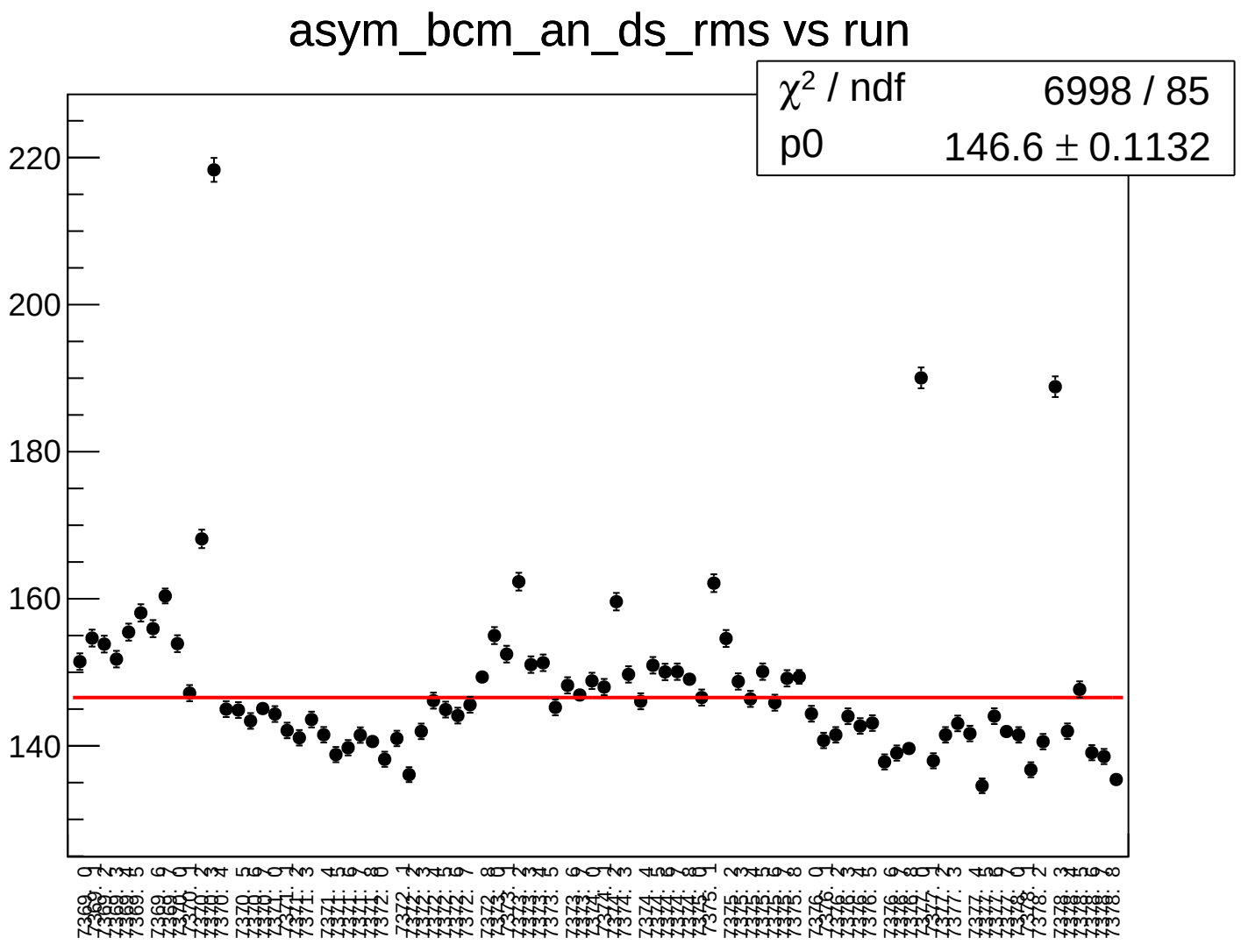

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 81.8 / 84
p0 15.84 ± 17.19
100
0
−100
−200
−300
−400
−500
pull
Entries 85
Mean 43.12
Std Dev 43.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

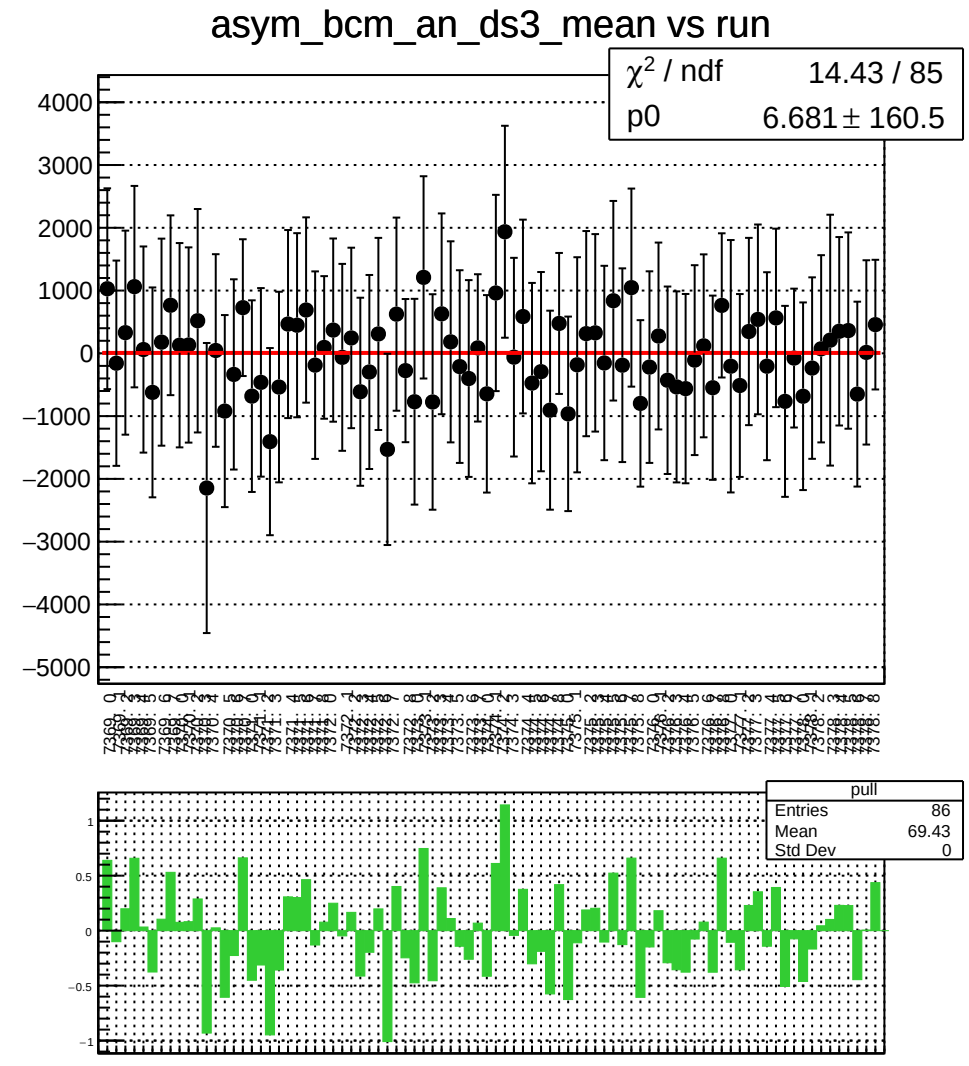

pull1D
Entries 85
Mean −0.1125
Std Dev 0.9745
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

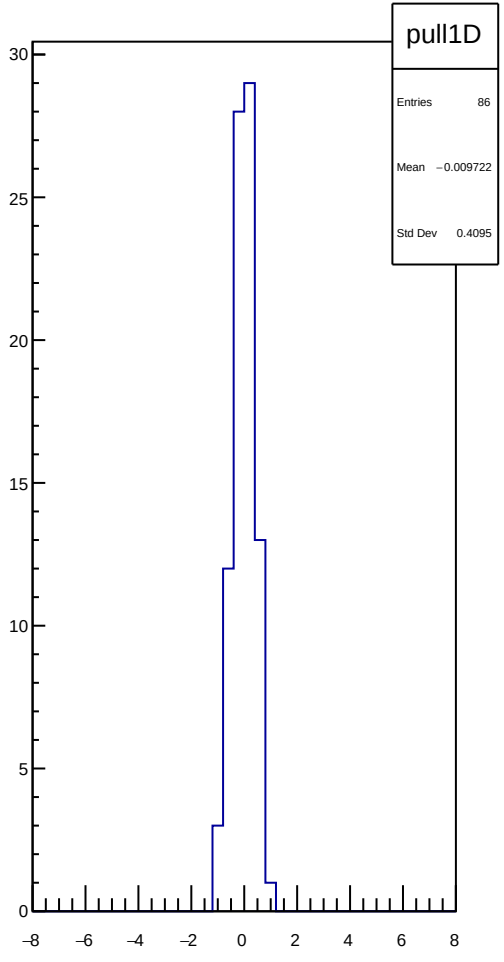

asym_bcm_an_diff_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 4.362e+05 / 75
p0 1.238e+04 ± 12.15

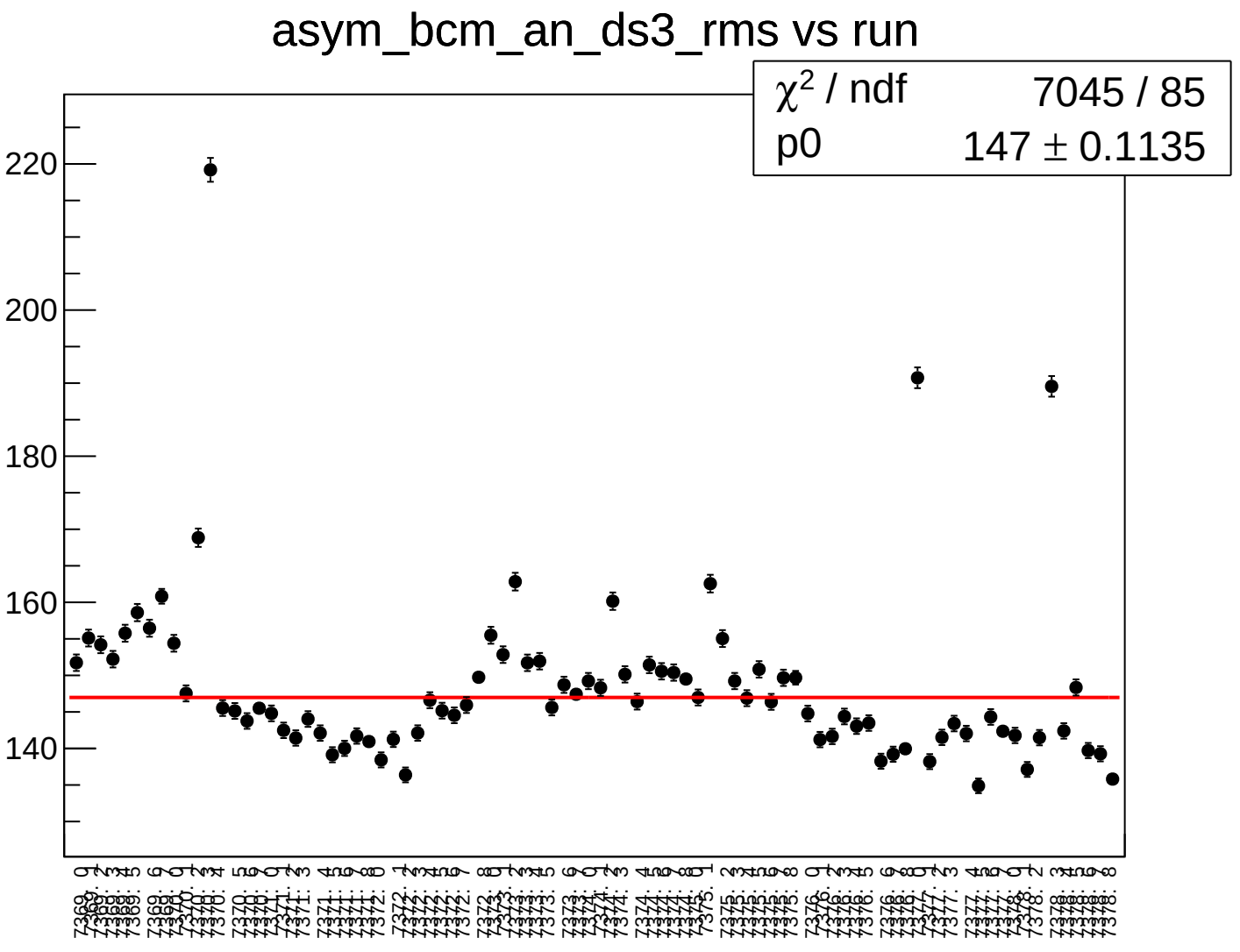

asym_bcm_an_ds_mean vs run
χ² / ndf 14.45 / 85
p0 12.31 ± 160.1
pull
Entries 86
Mean 73.96
Std Dev 0

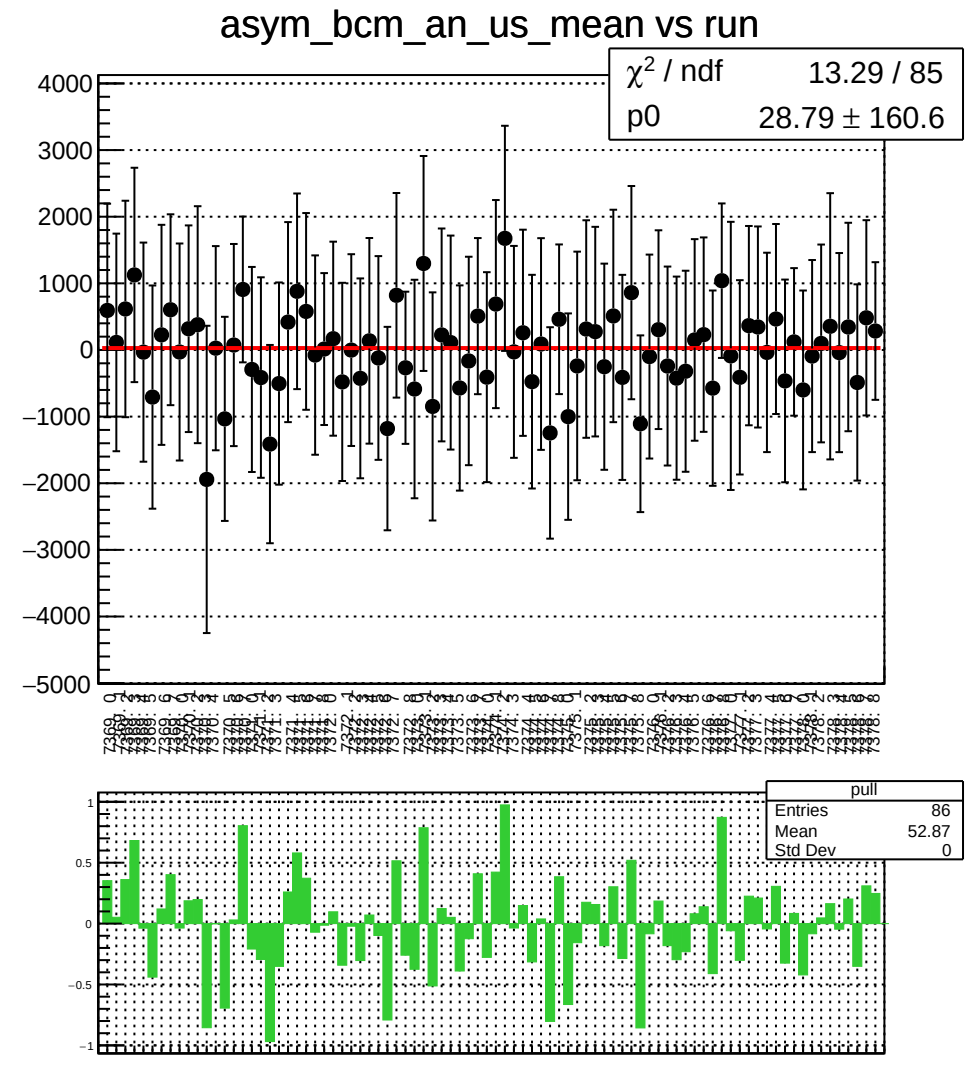

pull1D
Entries 86
Mean −0.009024
Std Dev 0.4097

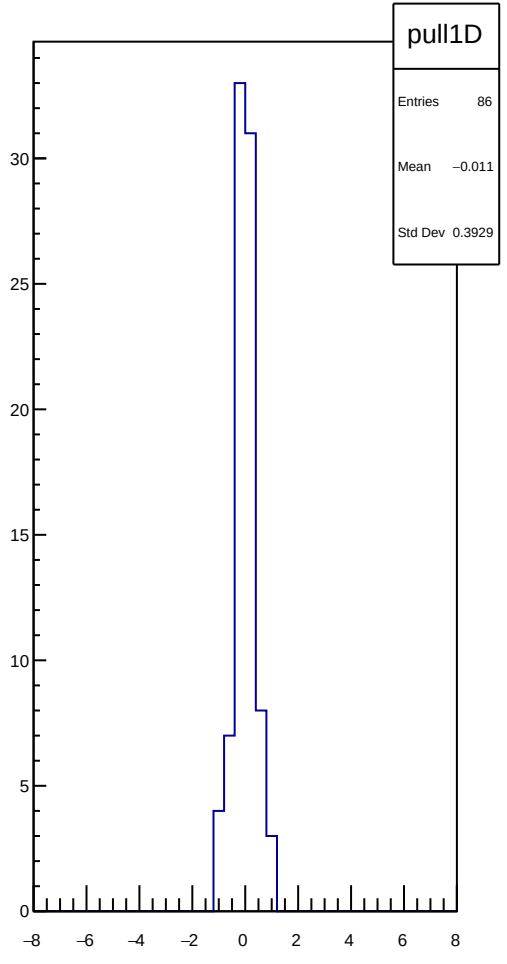

asym_bcm_an_ds_rms vs run
χ² / ndf 6998 / 85
p0 146.6 ± 0.1132
220
200
180
160
140

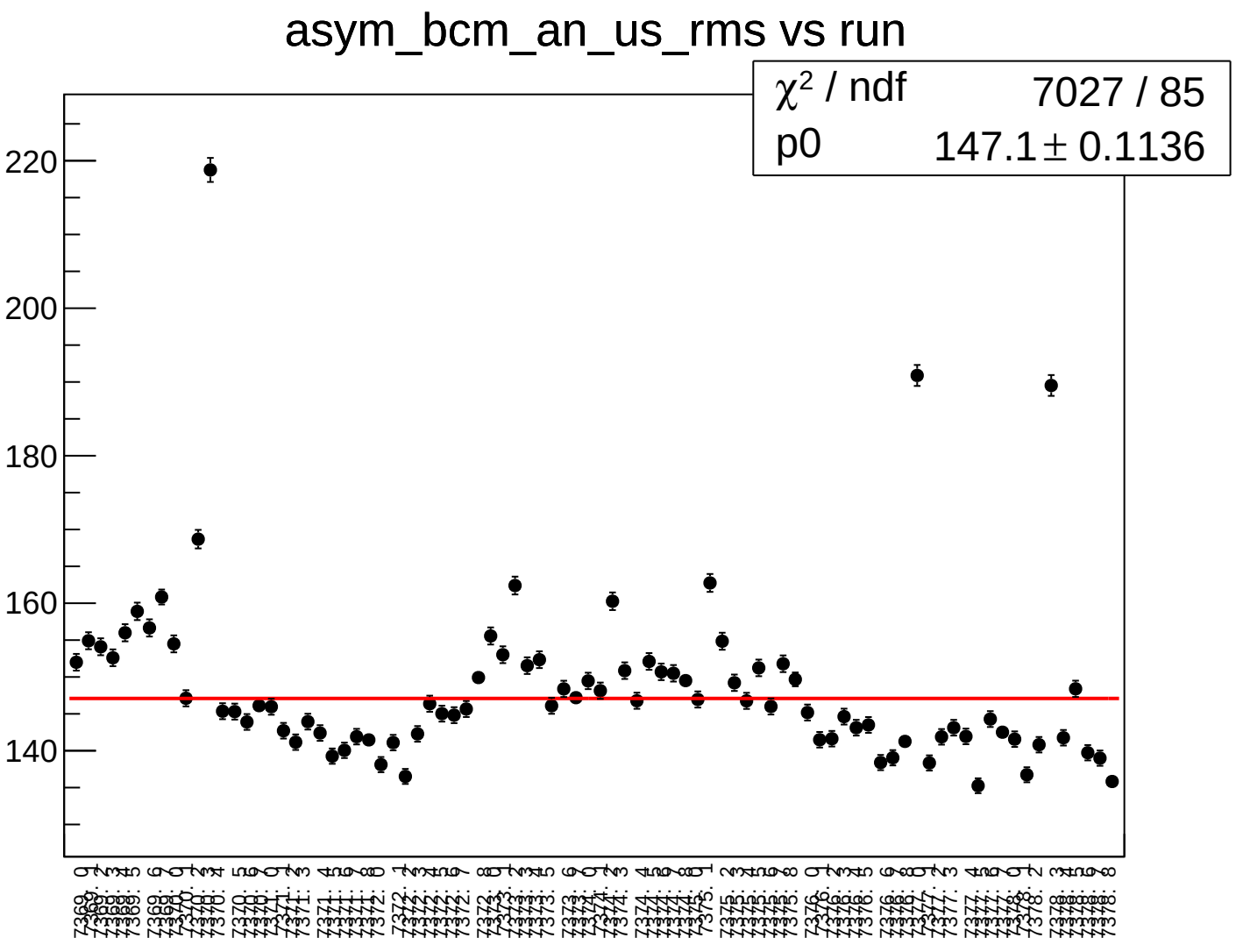

asym_bcm_an_ds3_mean vs run
χ² / ndf 14.43 / 85
p0 6.681 ± 160.5
pull
Entries 86
Mean 69.43
Std Dev 0

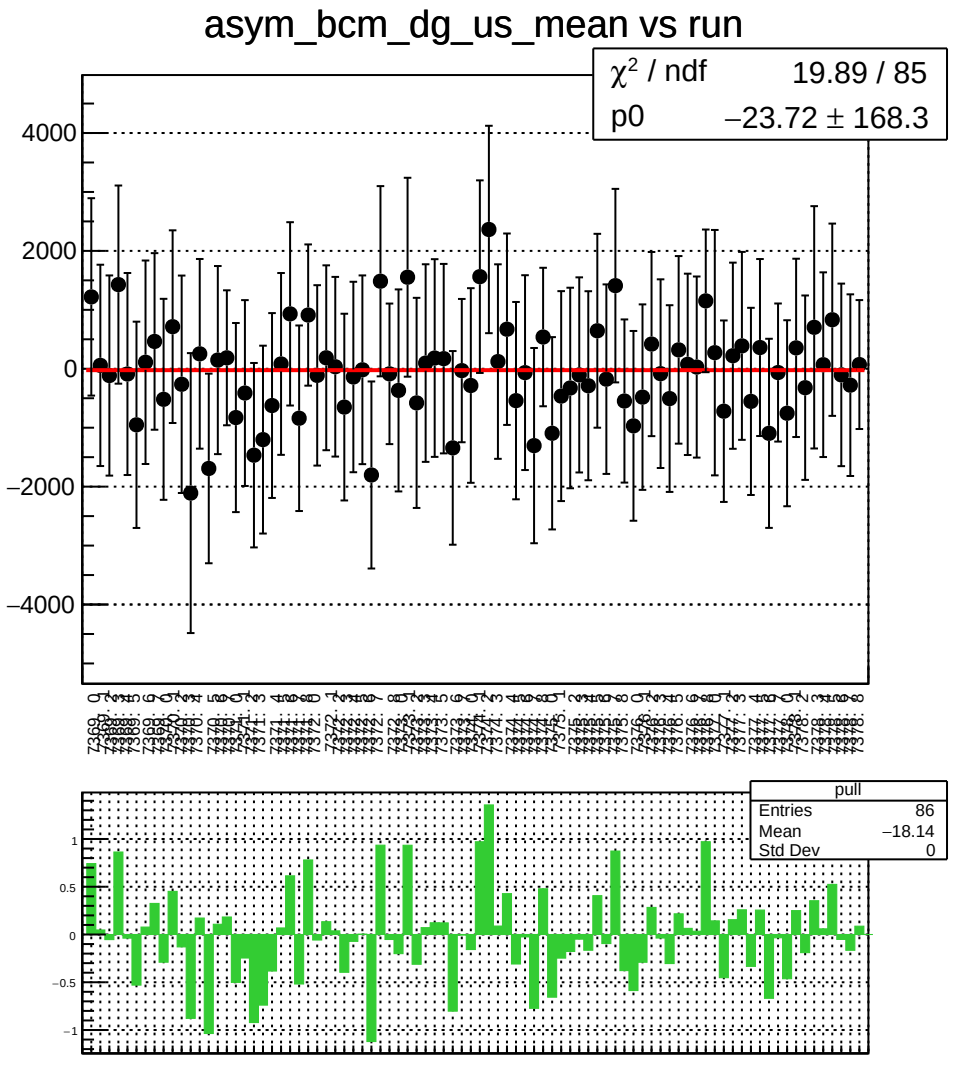

pull1D
Entries 86
Mean −0.009722
Std Dev 0.4095

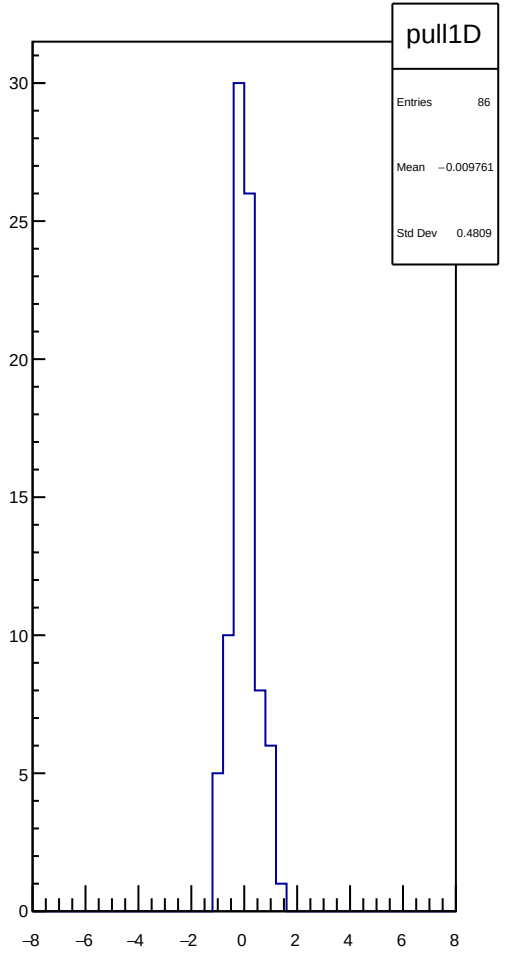

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 7045 / 85
p0 147 ± 0.1135
220
200
180
160
140

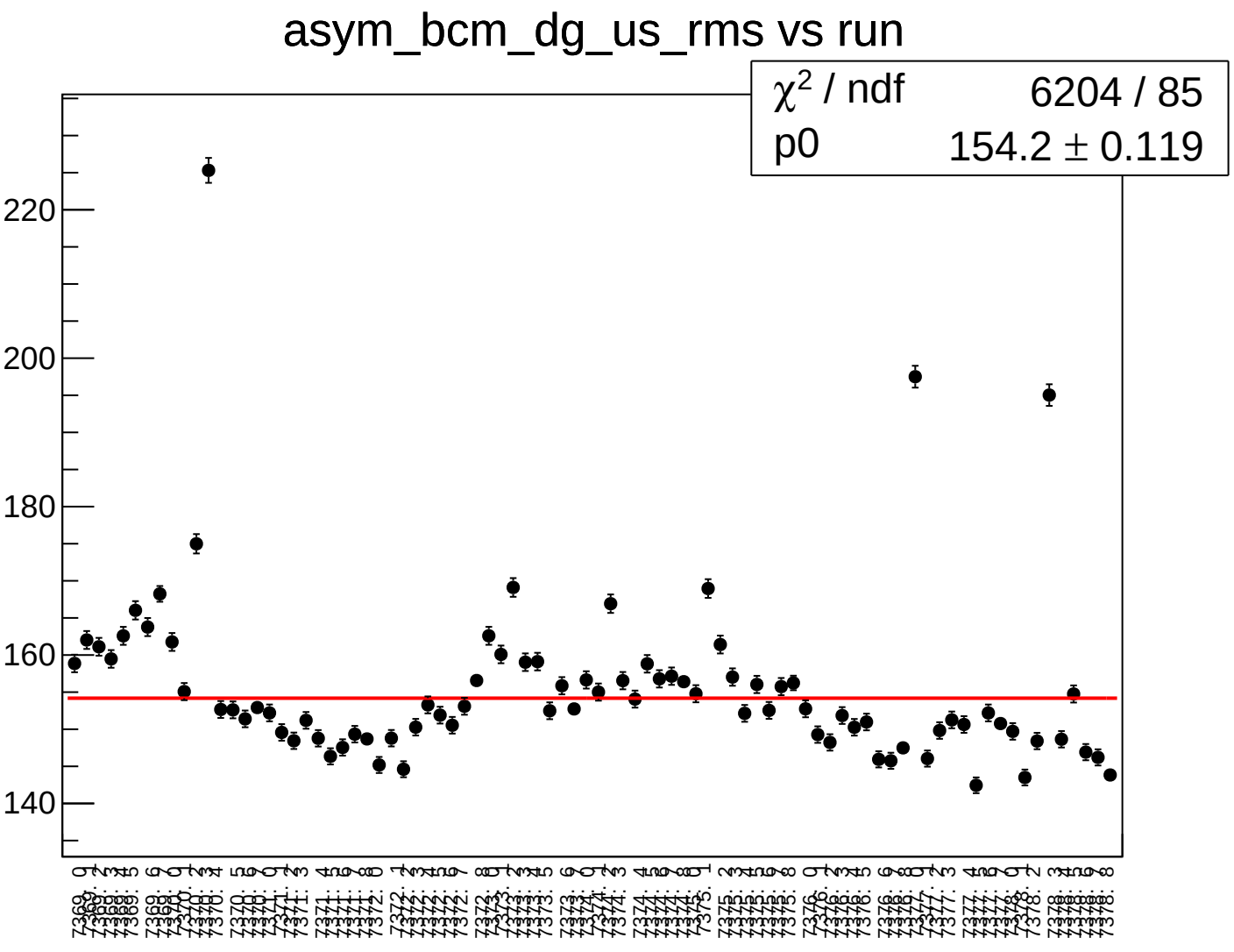

asym_bcm_an_us_mean vs run
χ² / ndf 13.29 / 85
p0 28.79 ± 160.6
pull
Entries 86
Mean 52.87
Std Dev 0

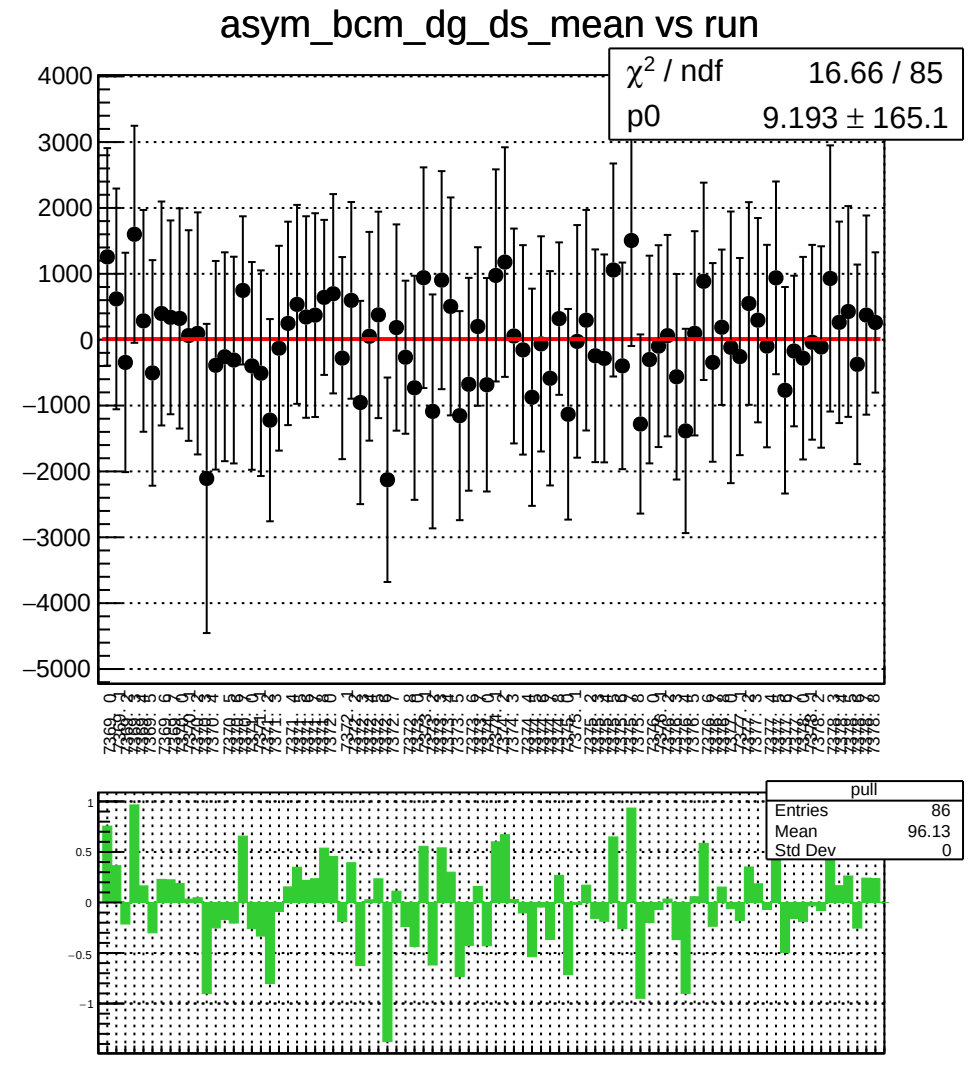

pull1D
Entries 86
Mean −0.011
Std Dev 0.3929

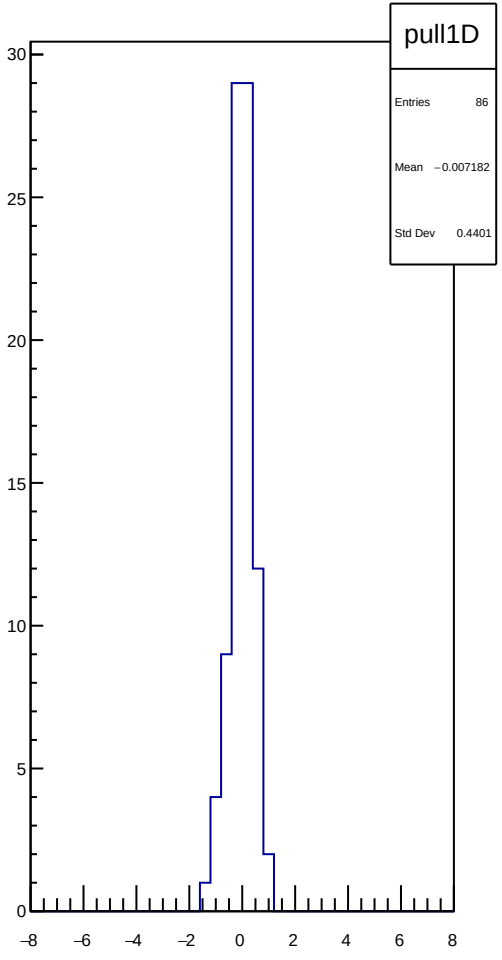

asym_bcm_an_us_rms vs run
χ² / ndf 7027 / 85
p0 147.1 ± 0.1136
220
200
180
160
140

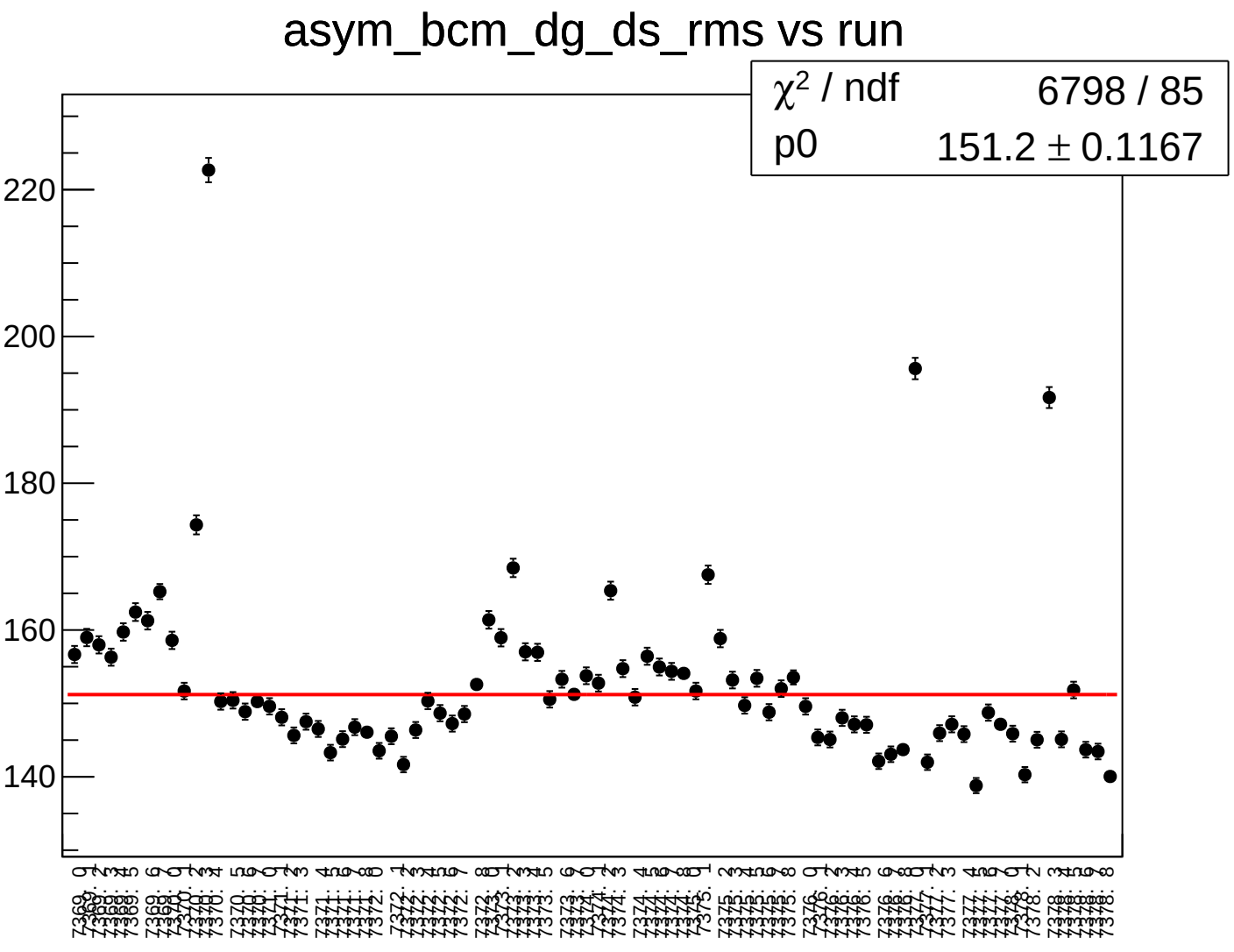

asym_bcm_dg_us_mean vs run
χ² / ndf 19.89 / 85
p0 −23.72 ± 168.3
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −18.14
Std Dev 0
1
0.5
0
−0.5
−1

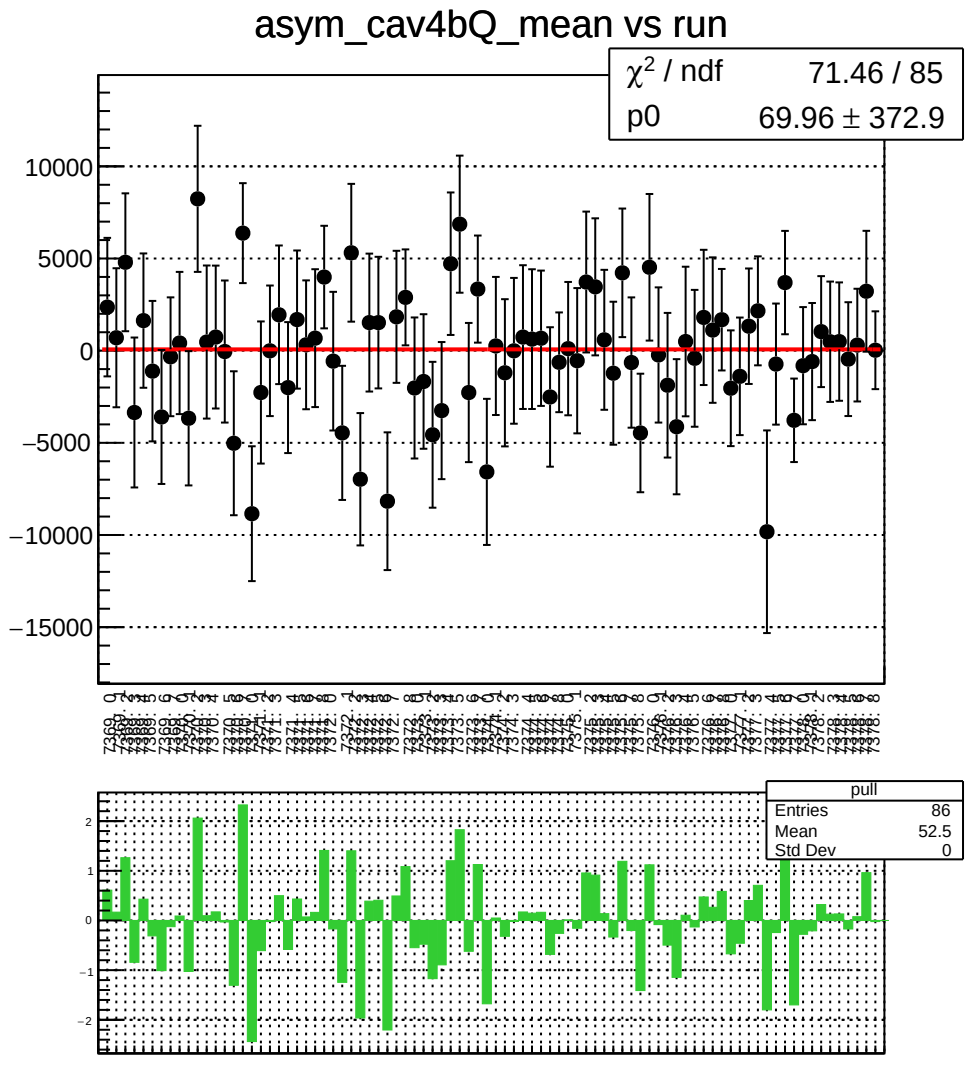

pull1D
Entries 86
Mean −0.009761
Std Dev 0.4809
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

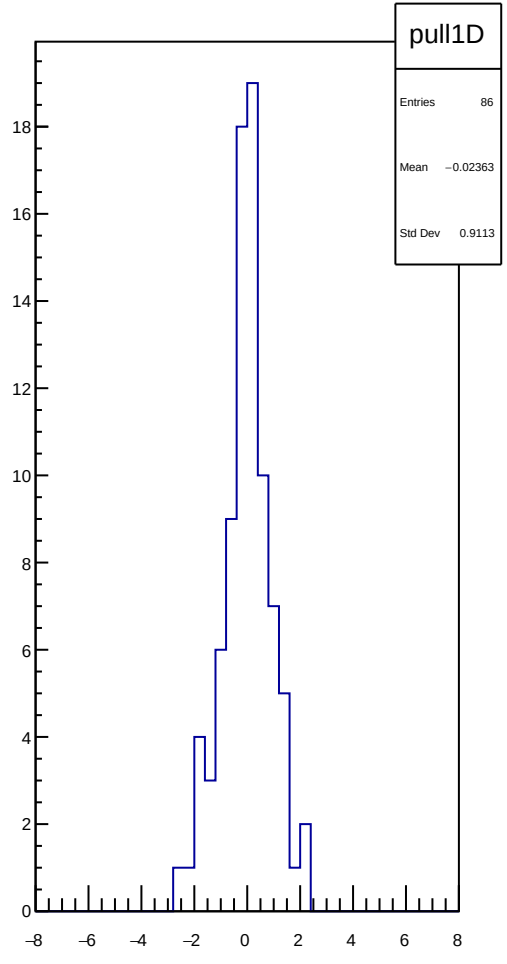

asym_bcm_dg_us_rms vs run
χ^2 / ndf 6204 / 85
p0 154.2 ± 0.119
220
200
180
160
140

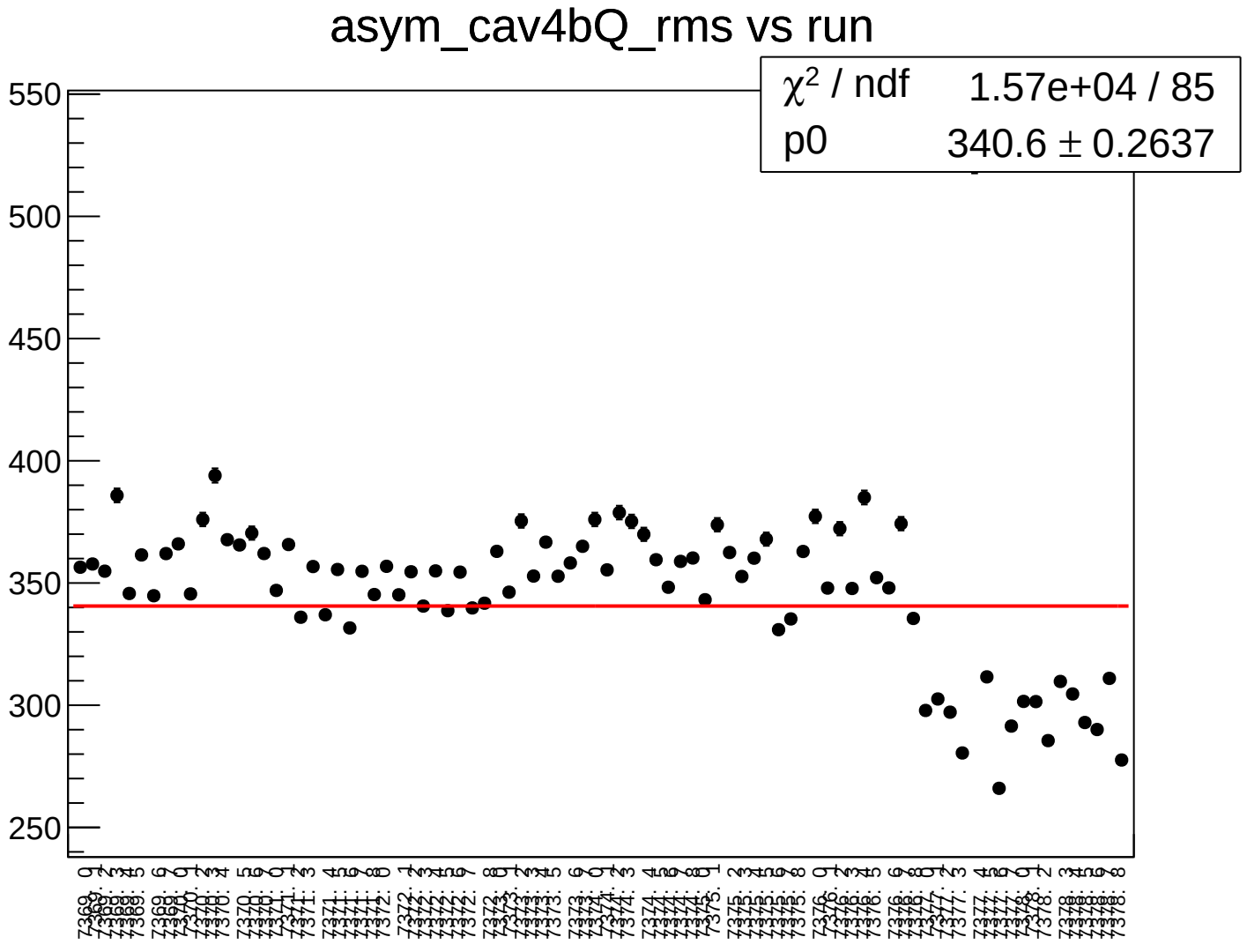

asym_bcm_dg_ds_mean vs run
χ² / ndf 16.66 / 85
p0 9.193 ± 165.1
pull
Entries 86
Mean 96.13
Std Dev 0

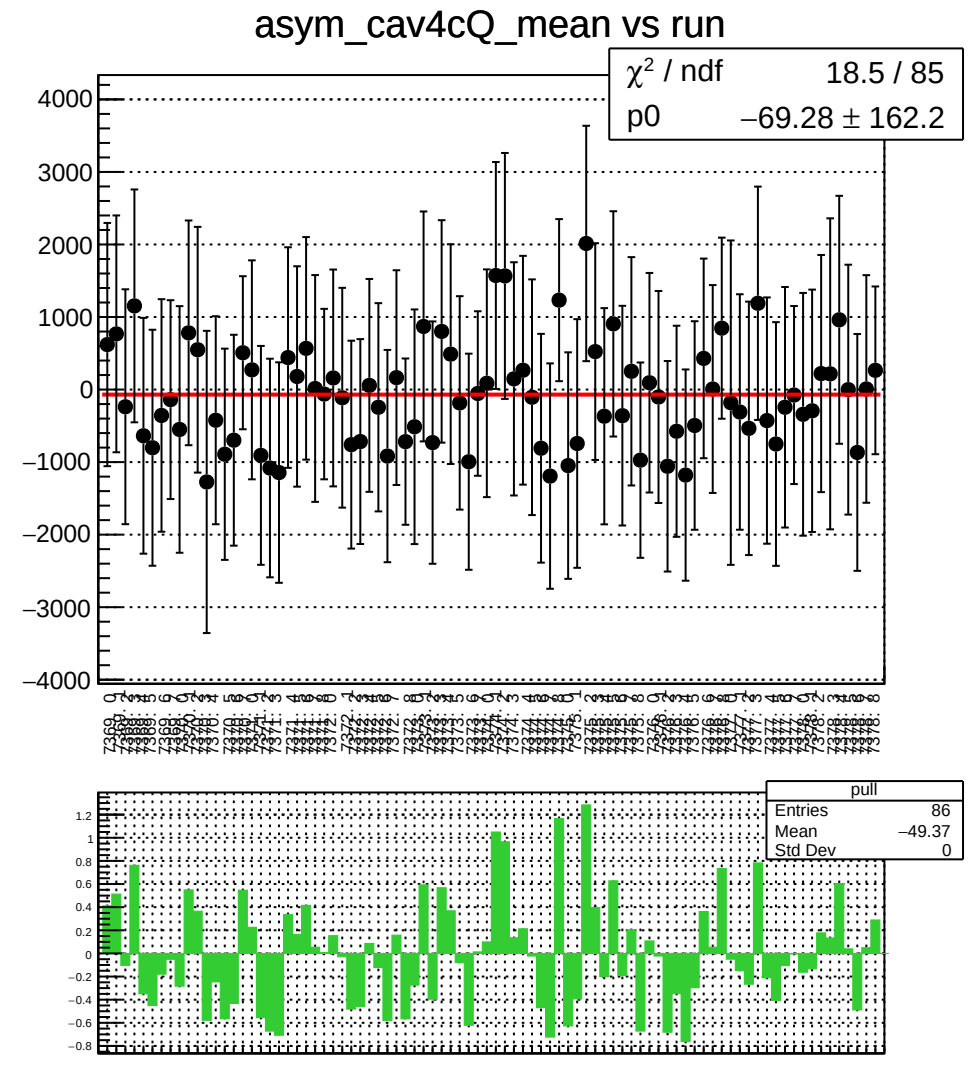

pull1D
Entries 86
Mean −0.007182
Std Dev 0.4401

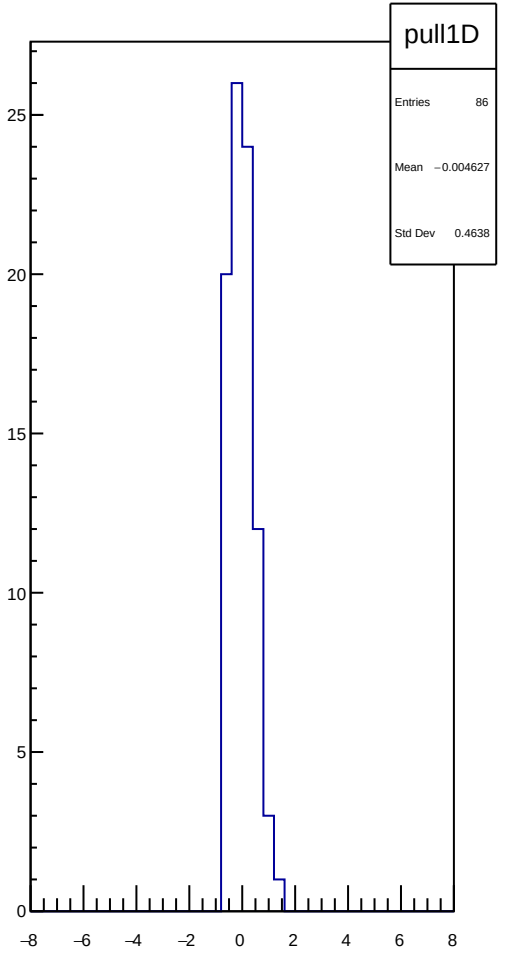

asym_bcm_dg_ds_rms vs run
χ² / ndf 6798 / 85
p0 151.2 ± 0.1167
220
200
180
160
140

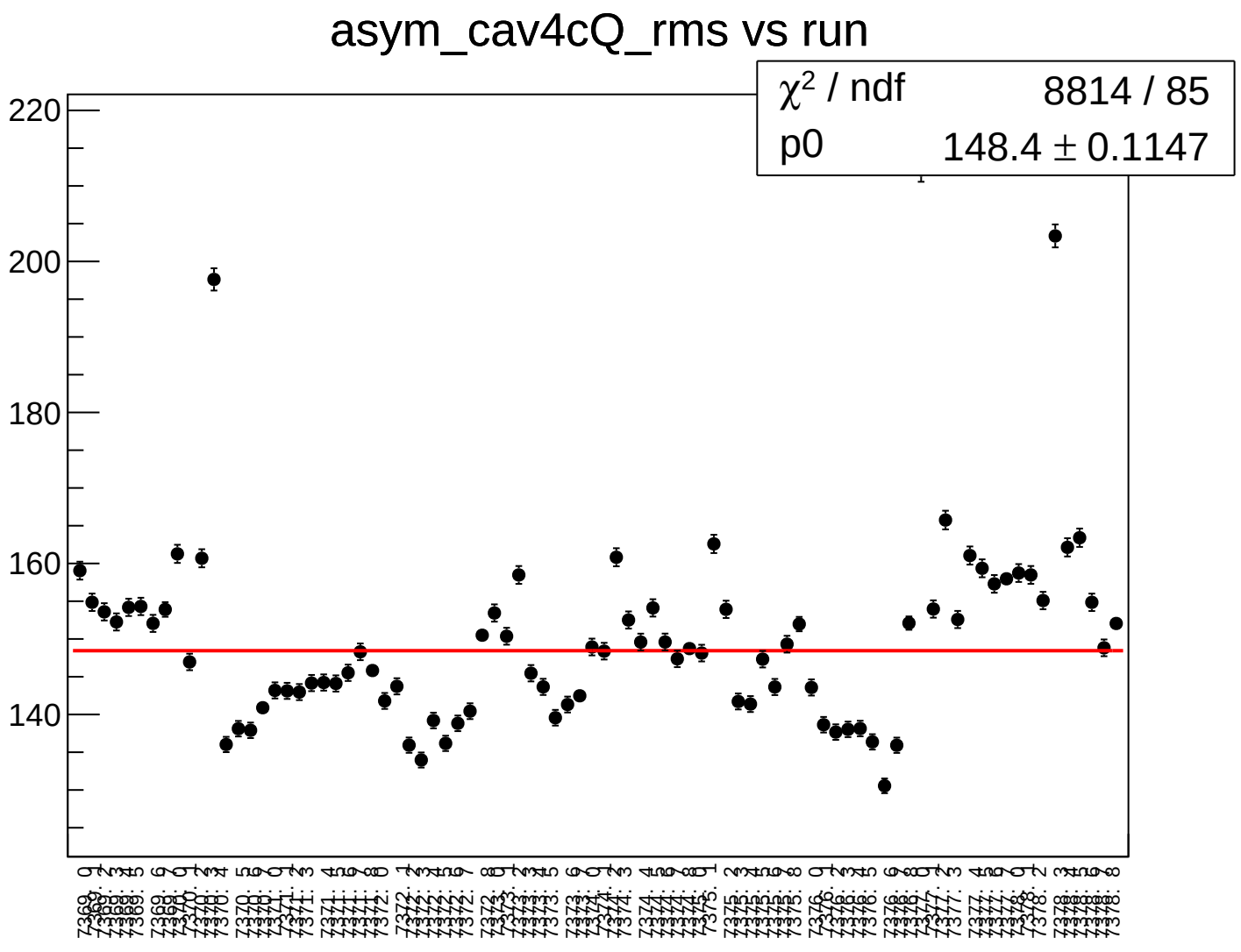

asym_cav4bQ_mean vs run
χ² / ndf 71.46 / 85
p0 69.96 ± 372.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 52.5
Std Dev 0
2
1
0
−1
−2

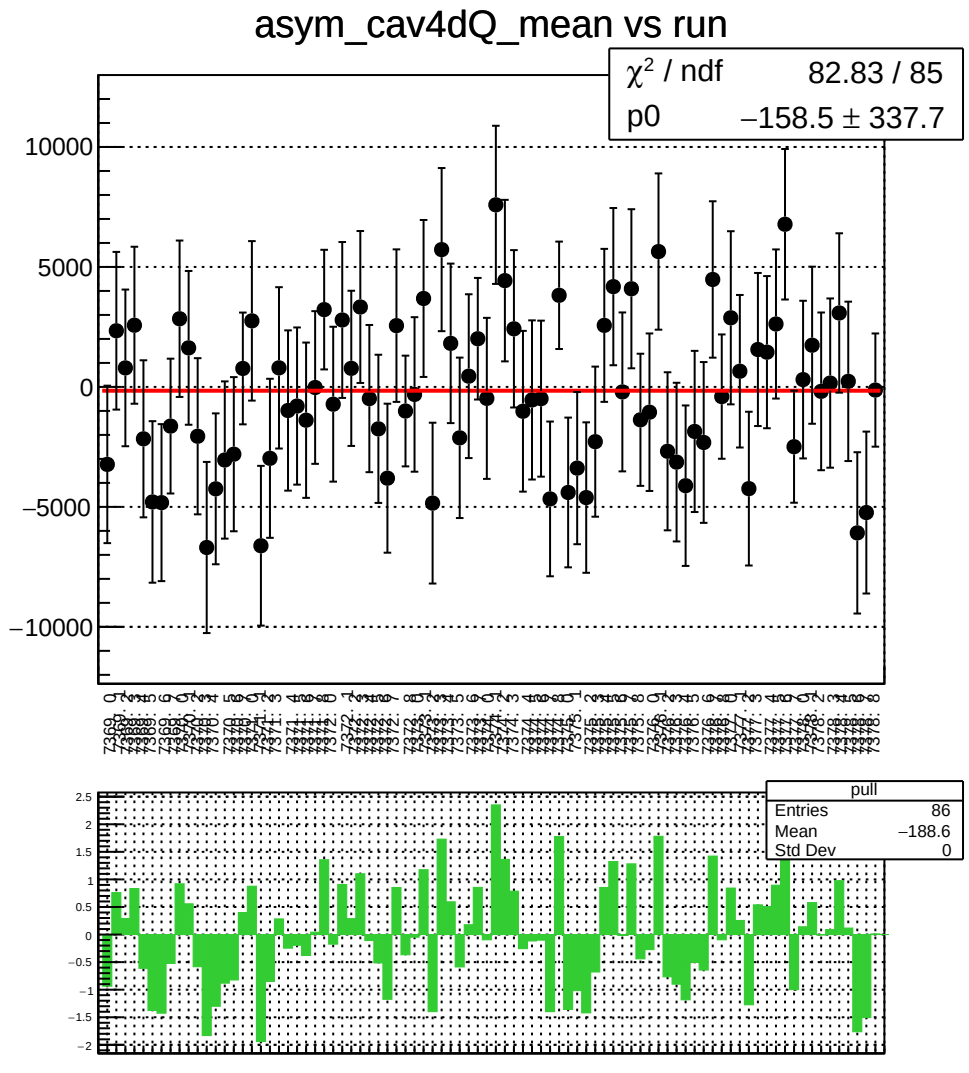

pull1D
Entries 86
Mean −0.02363
Std Dev 0.9113
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

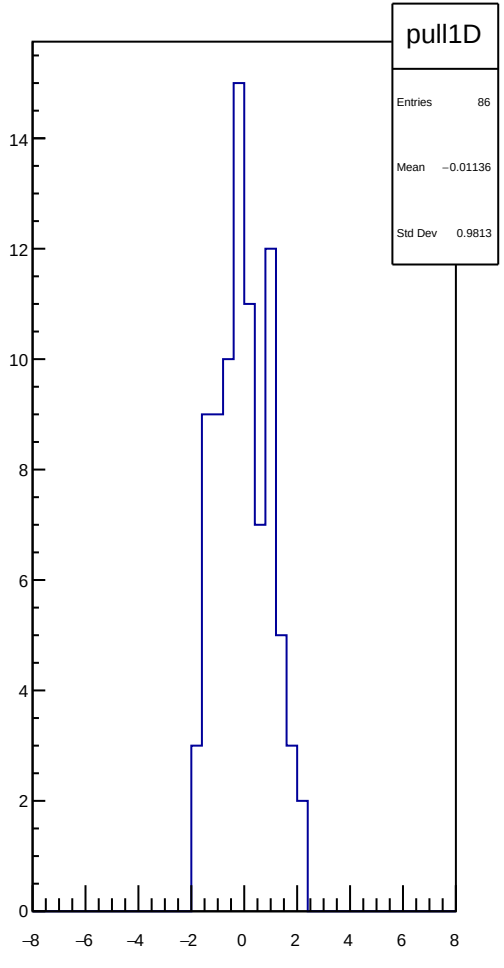

asym_cav4bQ_rms vs run
χ² / ndf 1.57e+04 / 85
p0 340.6 ± 0.2637
550
500
450
400
350
300
250

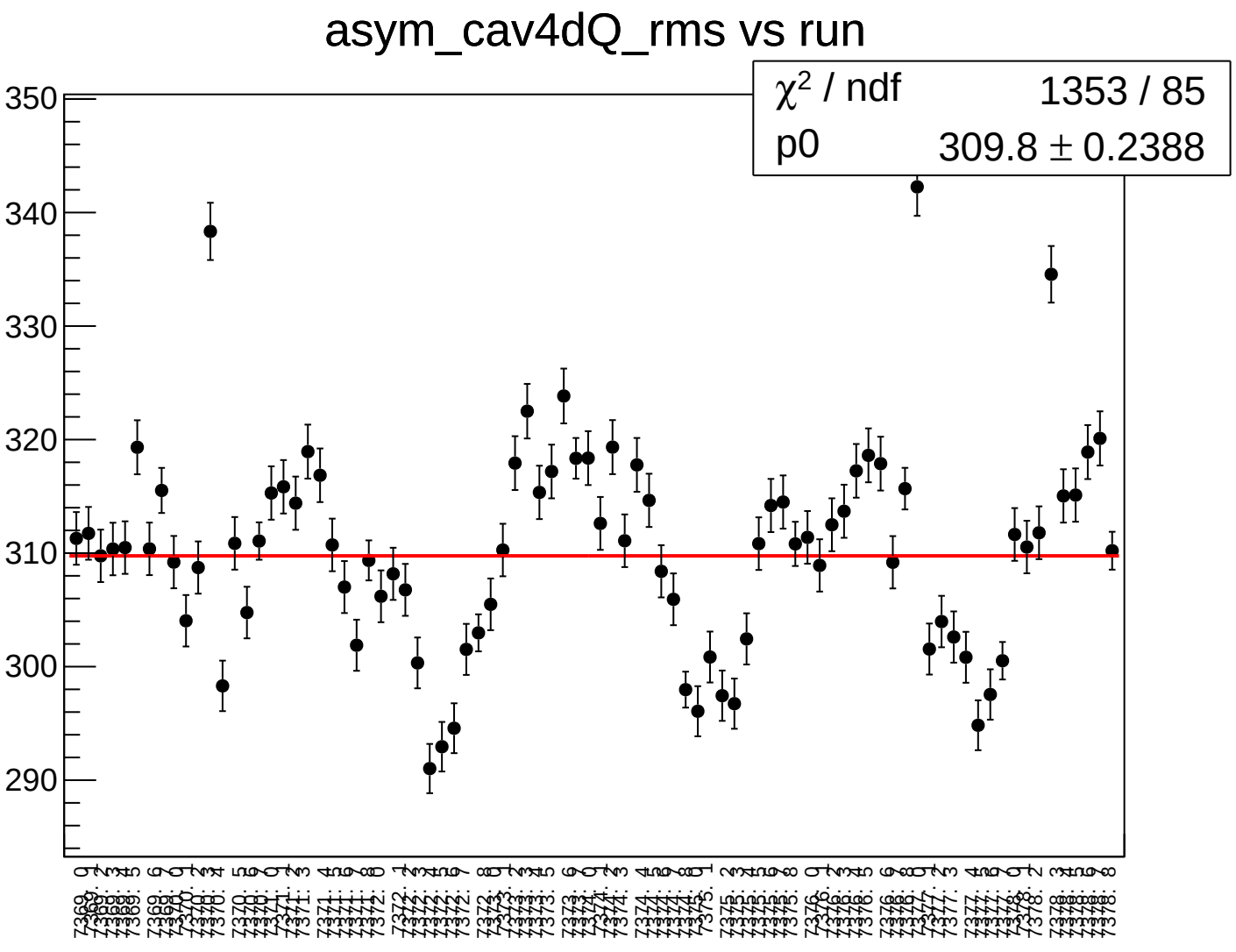

asym_cav4cQ_mean vs run
χ² / ndf 18.5 / 85
p0 −69.28 ± 162.2
pull
Entries 86
Mean −49.37
Std Dev 0

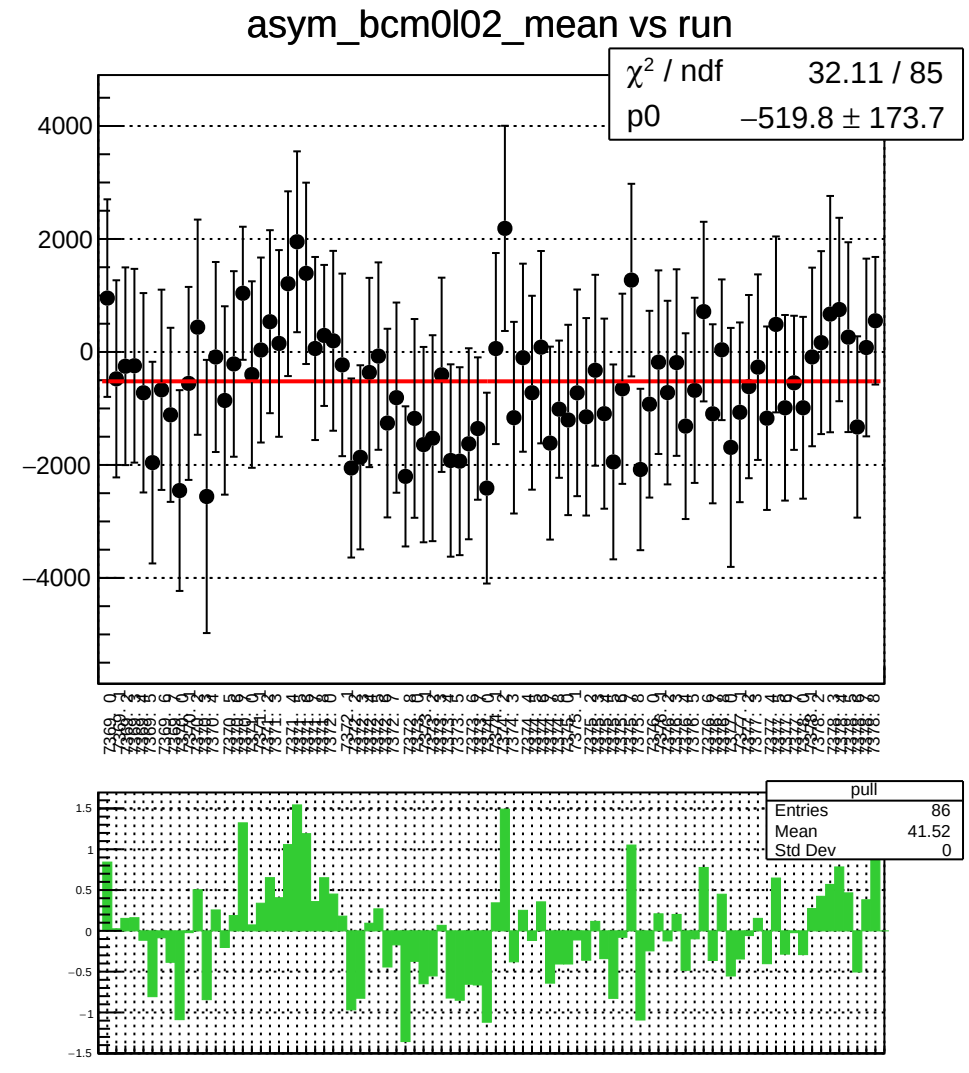

pull1D
Entries 86
Mean −0.004627
Std Dev 0.4638

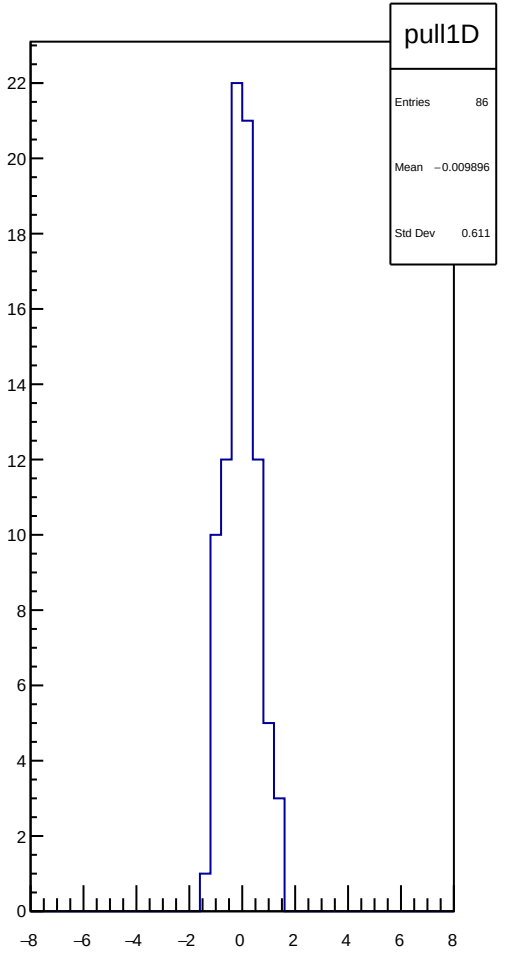

asym_cav4cQ_rms vs run
χ^2 / ndf 8814 / 85
p0 148.4 ± 0.1147
220
200
180
160
140

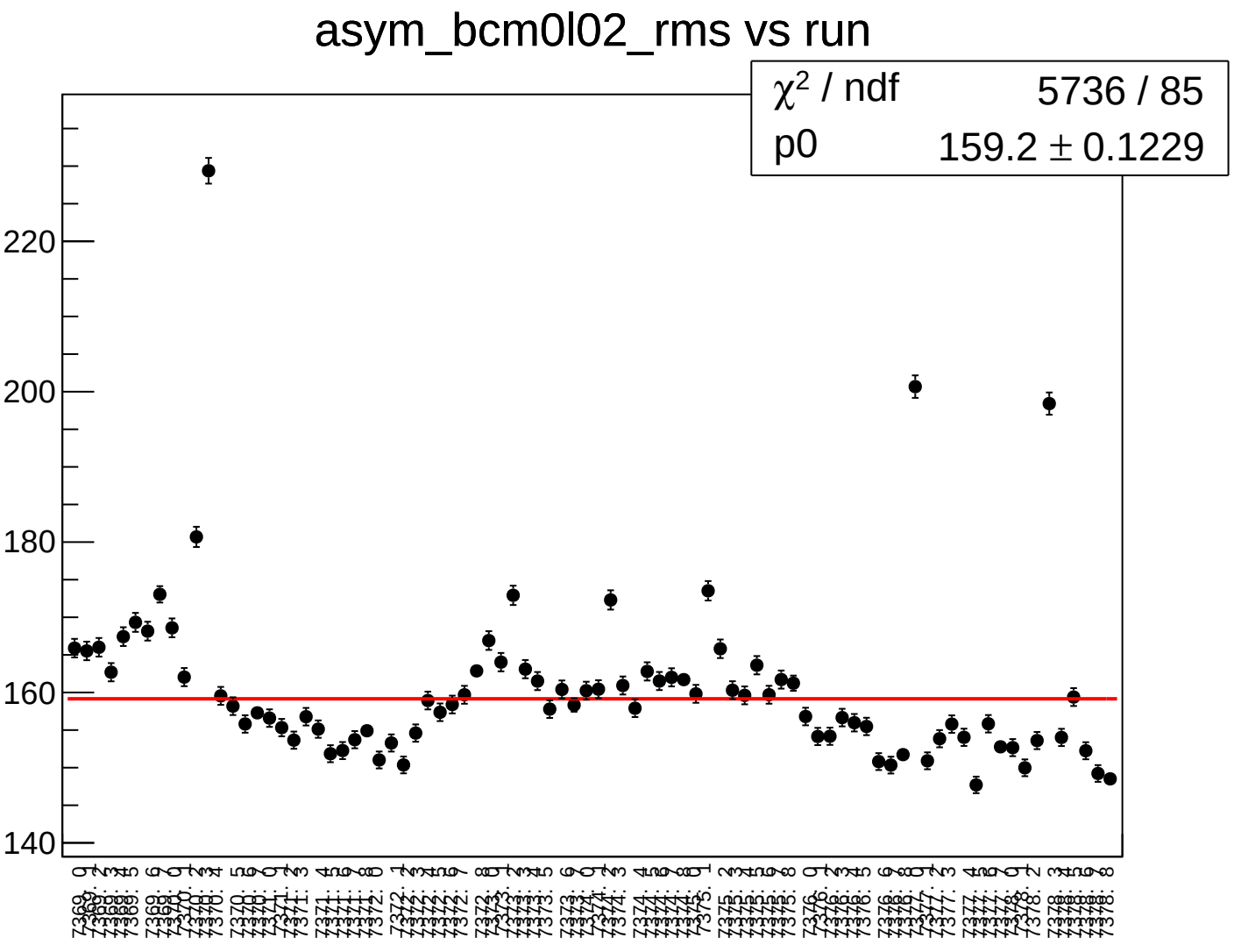

asym_cav4dQ_mean vs run
χ² / ndf 82.83 / 85
p0 −158.5 ± 337.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −188.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

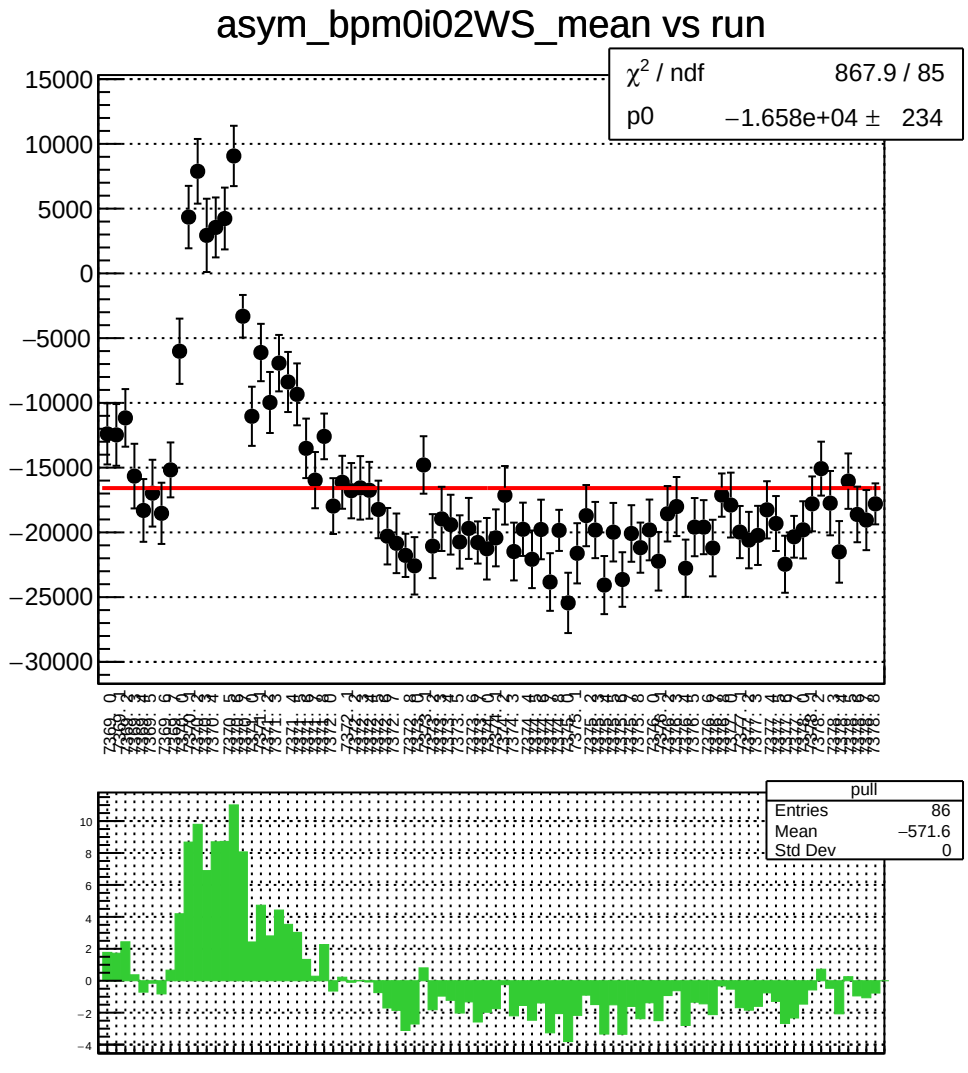

pull1D
Entries 86
Mean −0.01136
Std Dev 0.9813
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

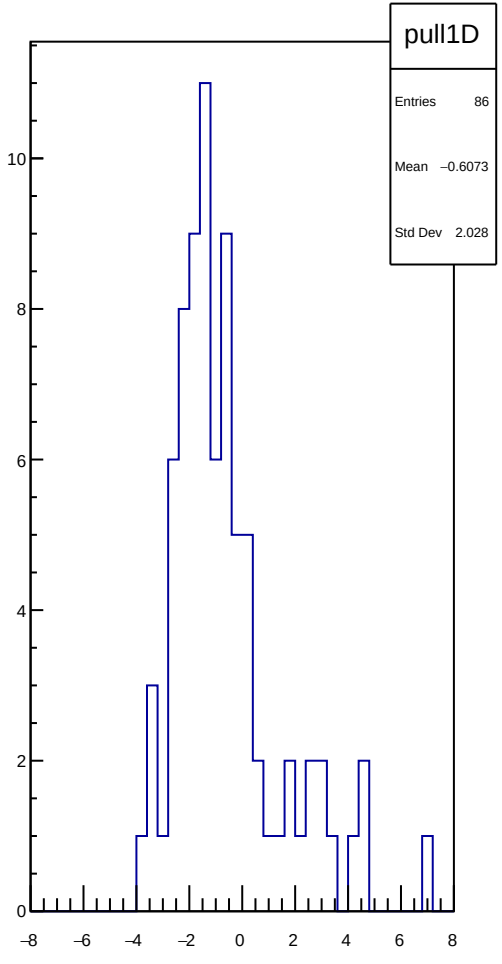

asym_cav4dQ_rms vs run
χ² / ndf 1353 / 85
p0 309.8 ± 0.2388
350
340
330
320
310
300
290

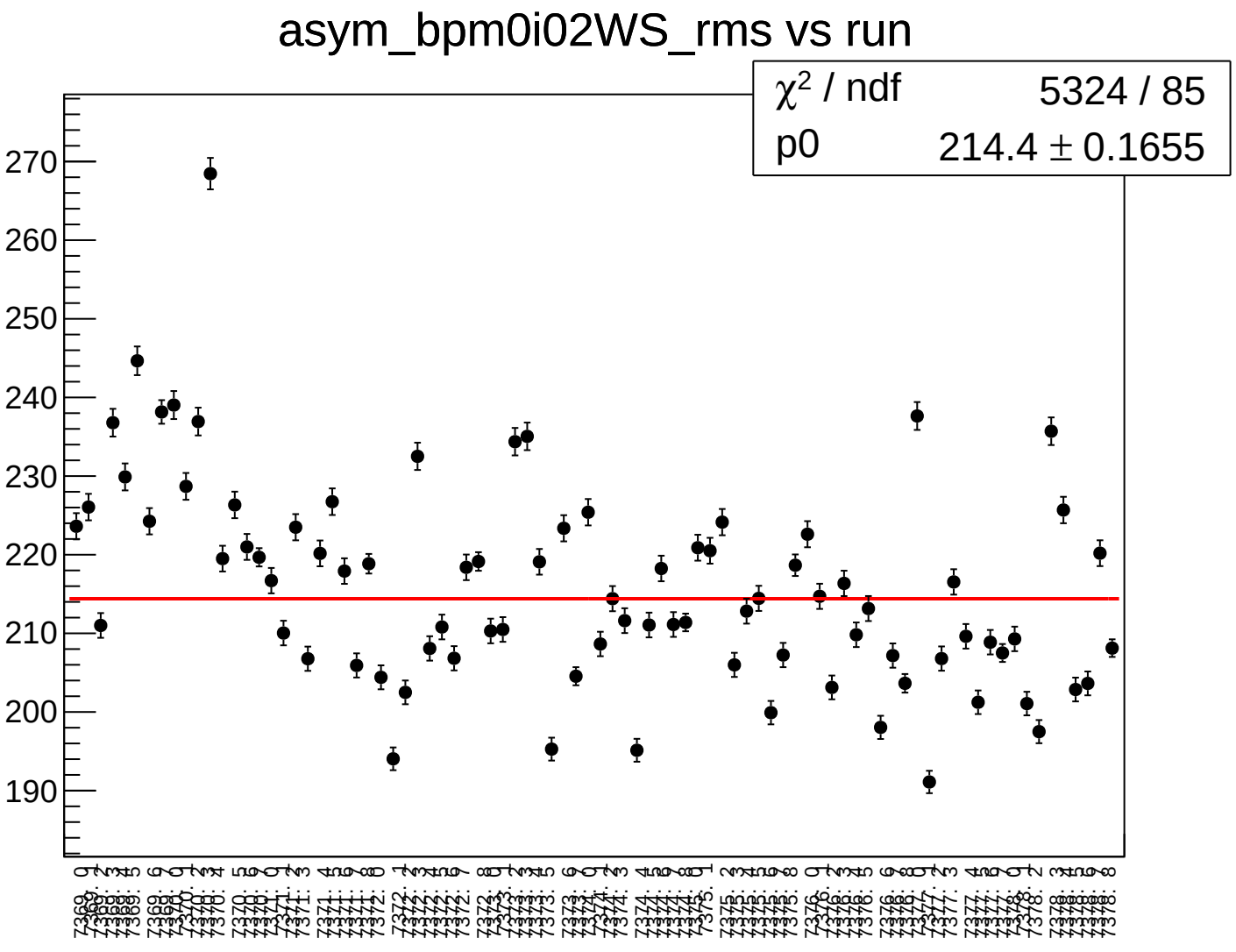

asym_bcm0l02_mean vs run
χ² / ndf 32.11 / 85
p0 −519.8 ± 173.7
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 41.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

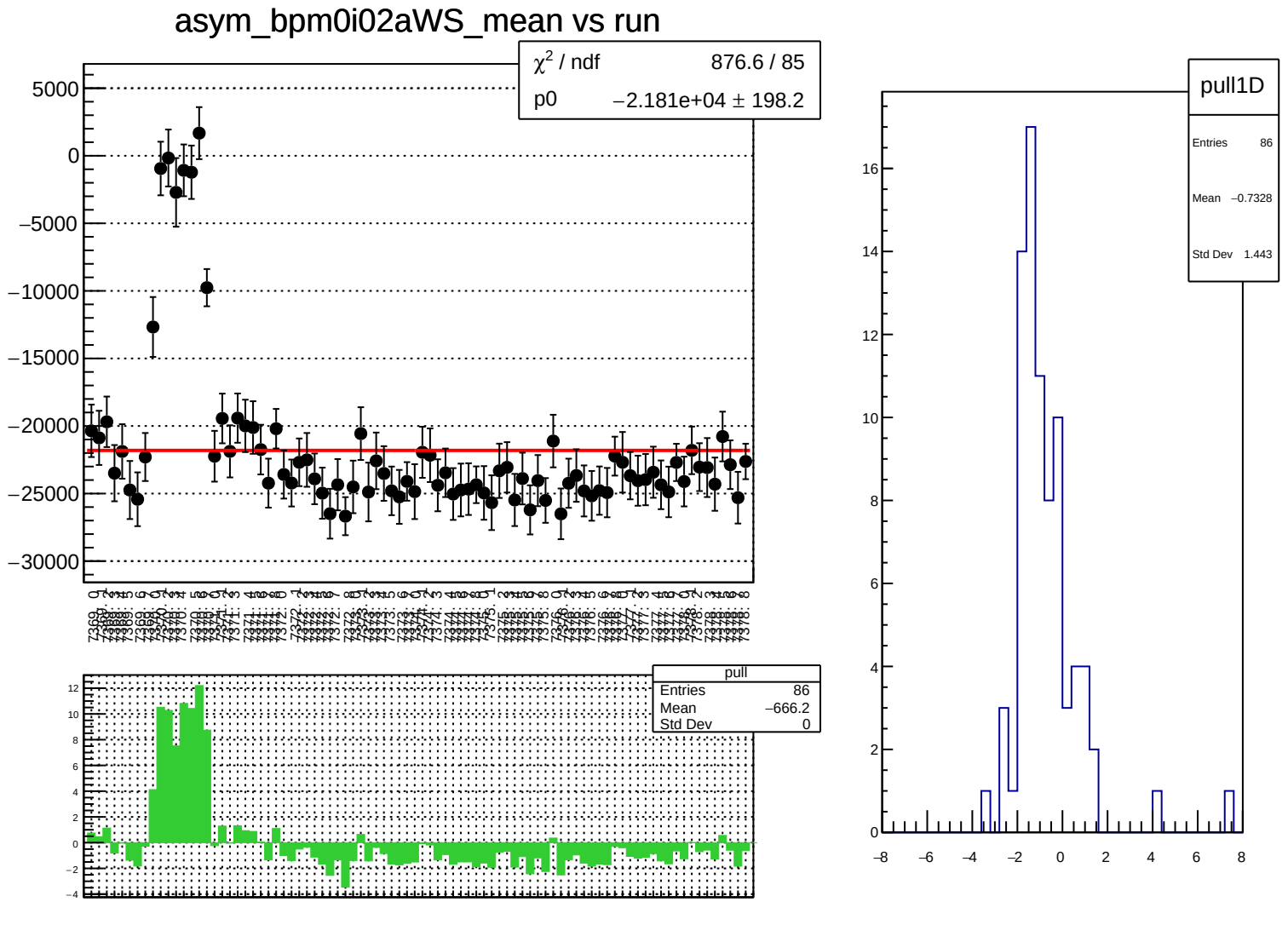

pull1D
Entries 86
Mean −0.009896
Std Dev 0.611
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

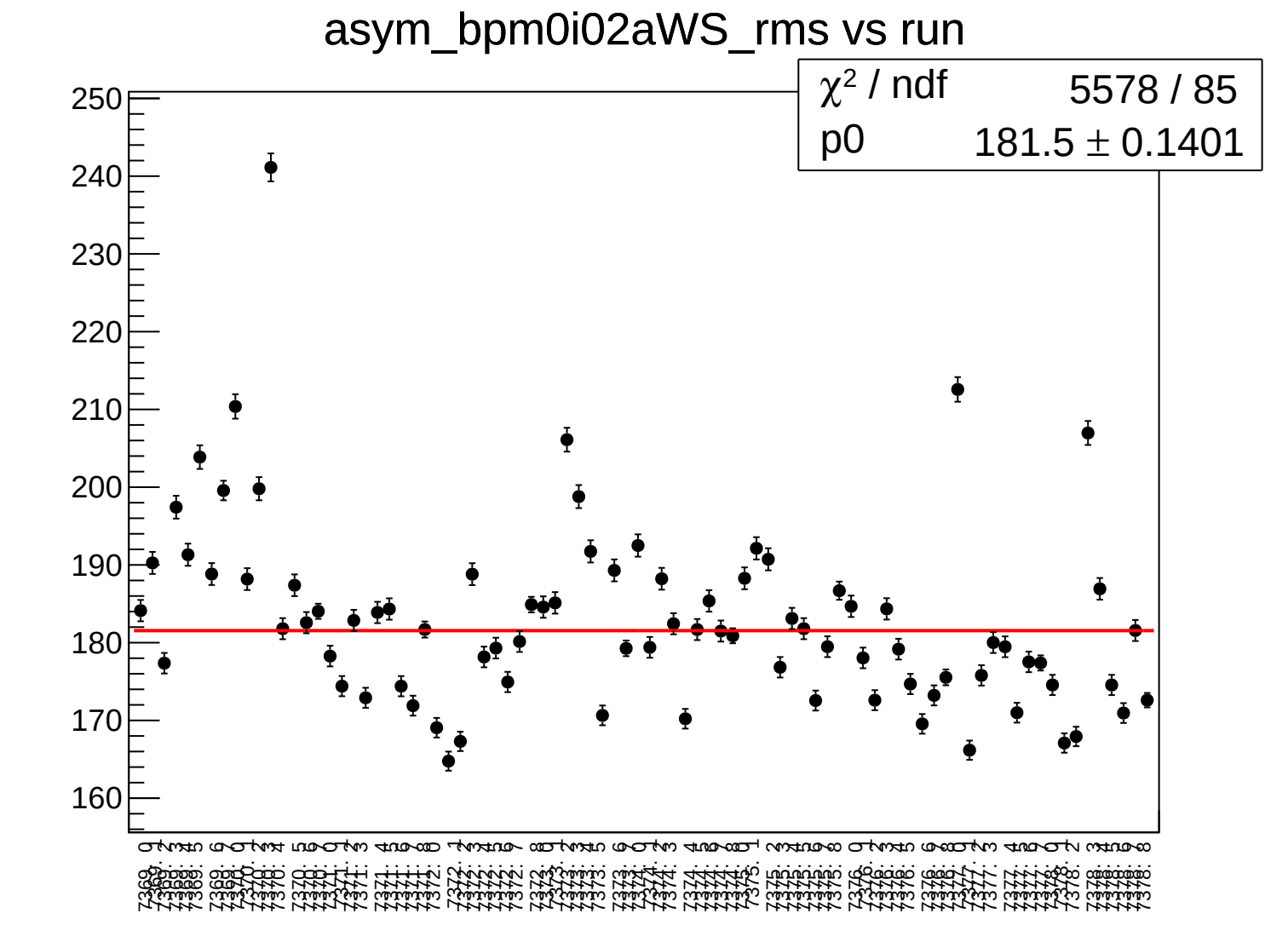

asym_bcm0l02_rms vs run
χ^2 / ndf 5736 / 85
p0 159.2 ± 0.1229
220
200
180
160
140

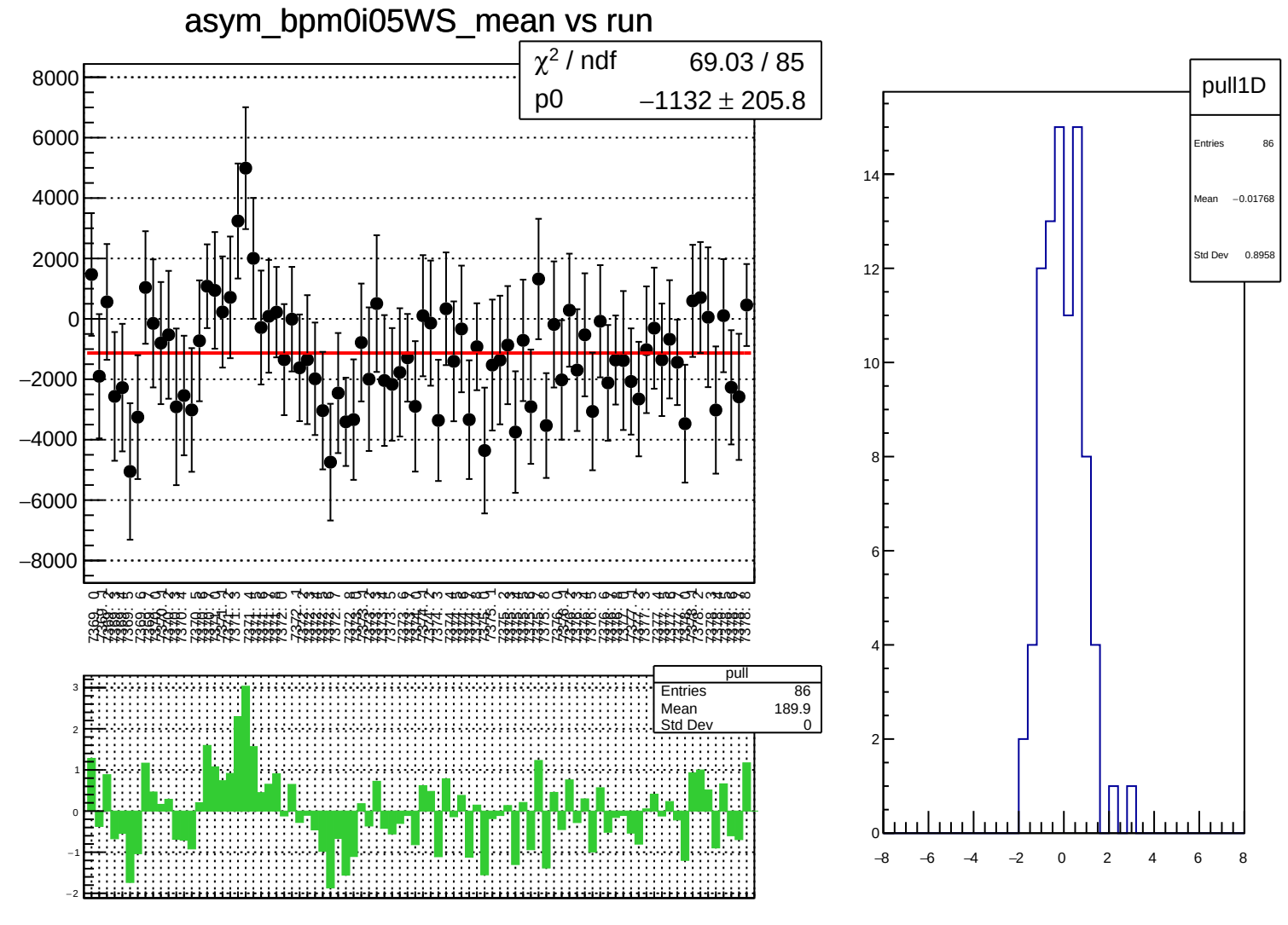

asym_bpm0i02WS_mean vs run
χ² / ndf 867.9 / 85
p0 −1.658e+04 ± 234
pull
Entries 86
Mean −571.6
Std Dev 0

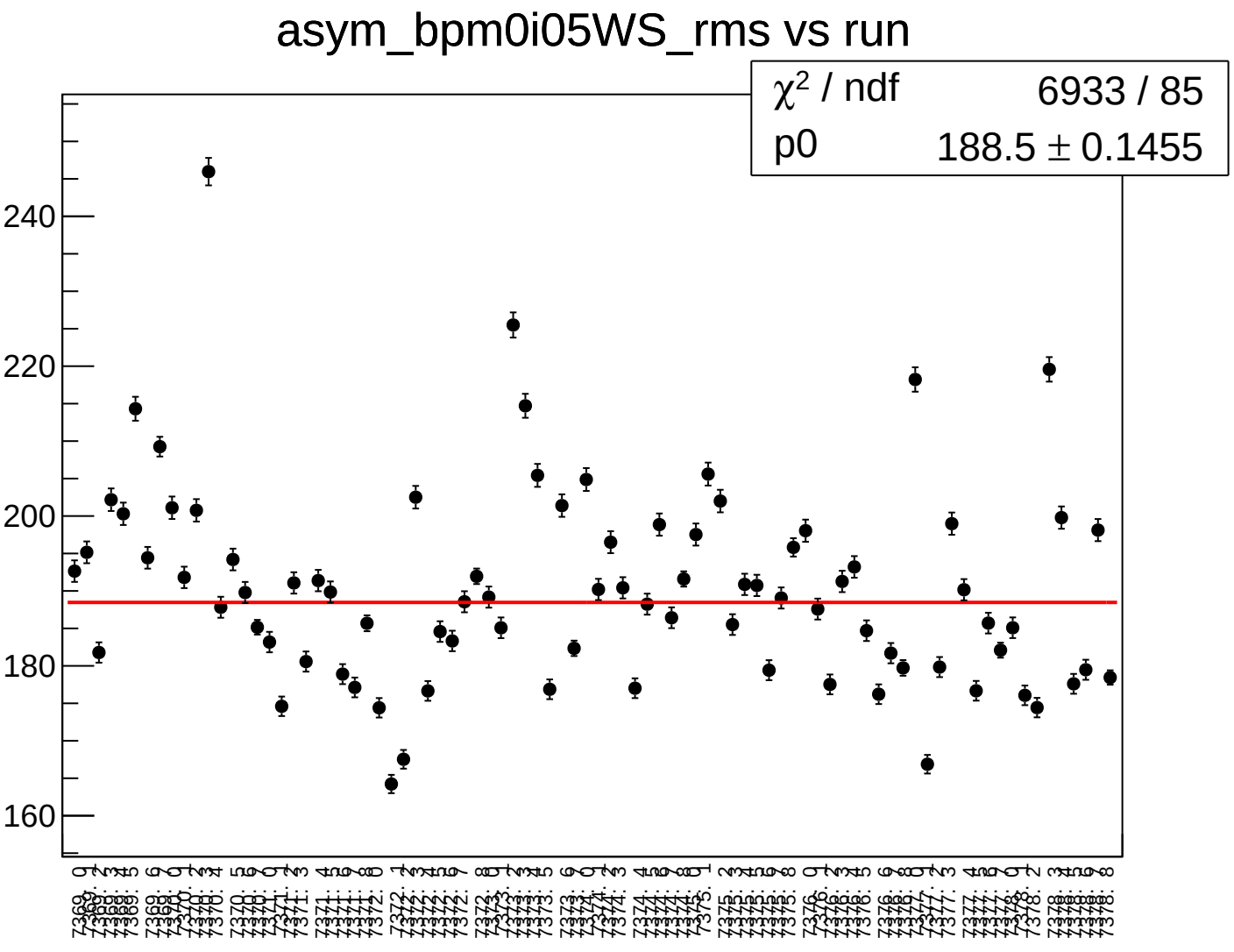

pull1D
Entries 86
Mean −0.6073
Std Dev 2.028

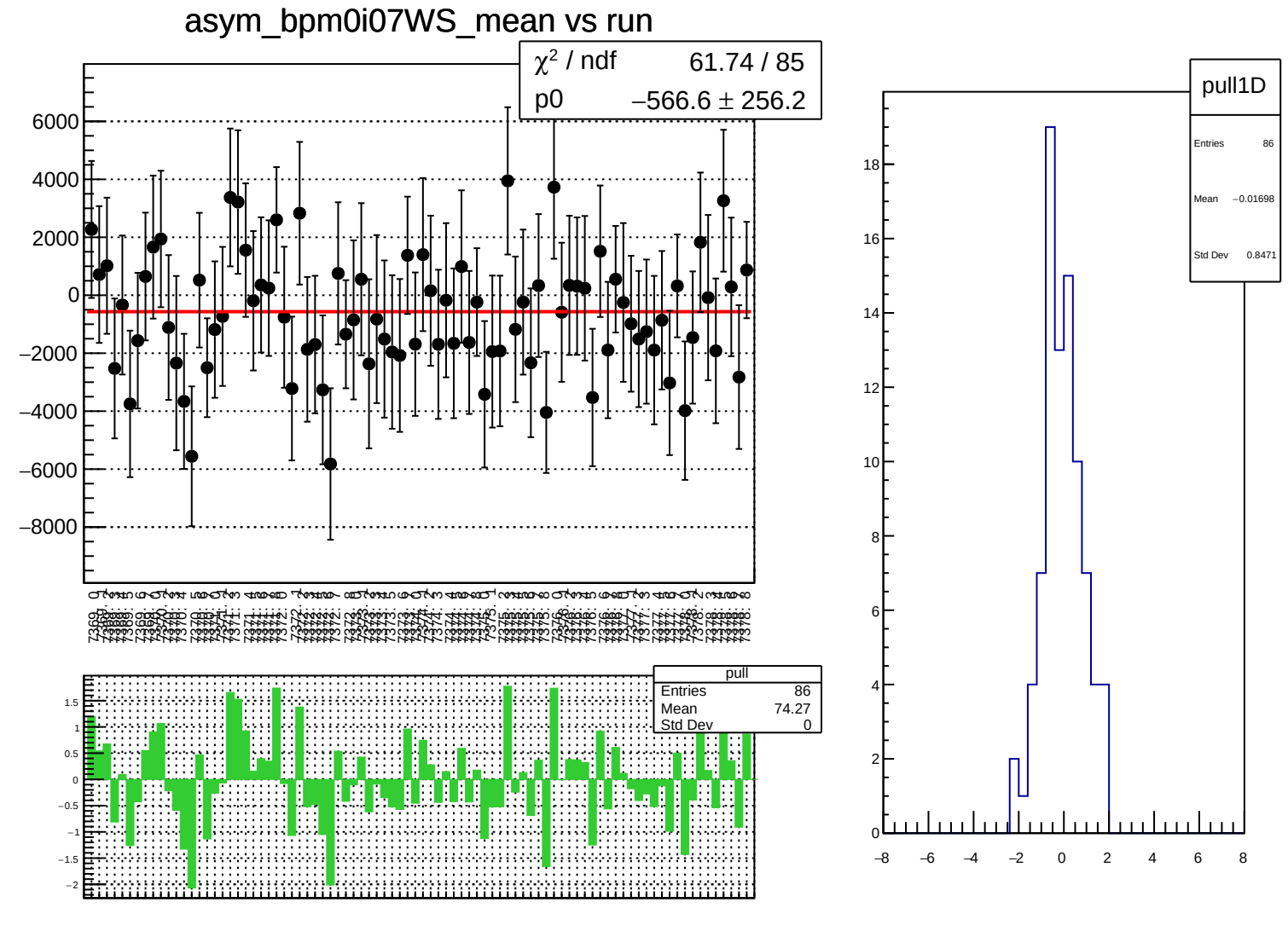

asym_bpm0i02WS_rms vs run
χ² / ndf 5324 / 85
p0 214.4 ± 0.1655
270
260
250
240
230
220
210
200
190

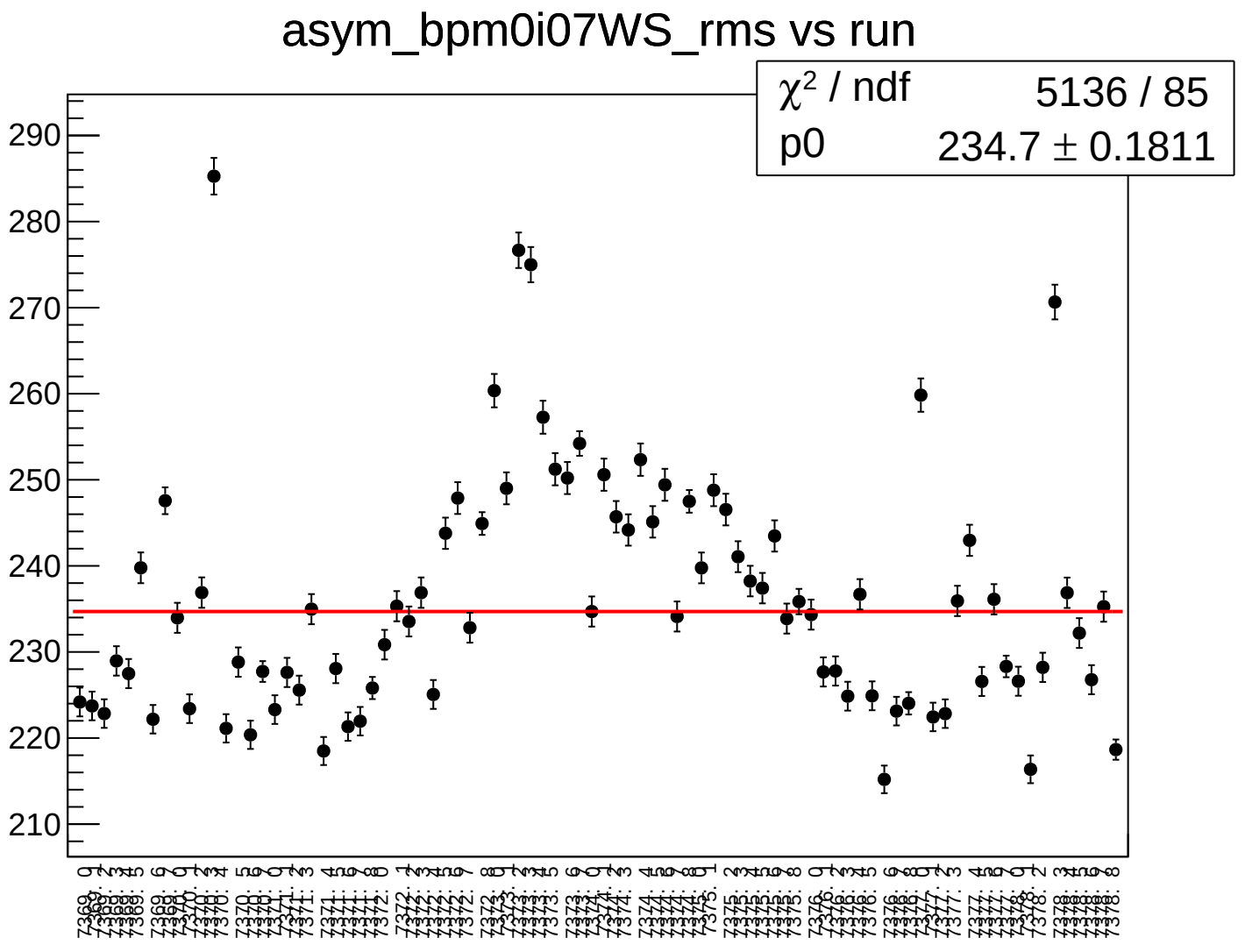

asym_bpm0i02aWS_mean vs run
χ² / ndf 876.6 / 85
p0 −2.181e+04 ± 198.2
pull
Entries 86
Mean −666.2
Std Dev 0
pull1D
Entries 86
Mean −0.7328
Std Dev 1.443

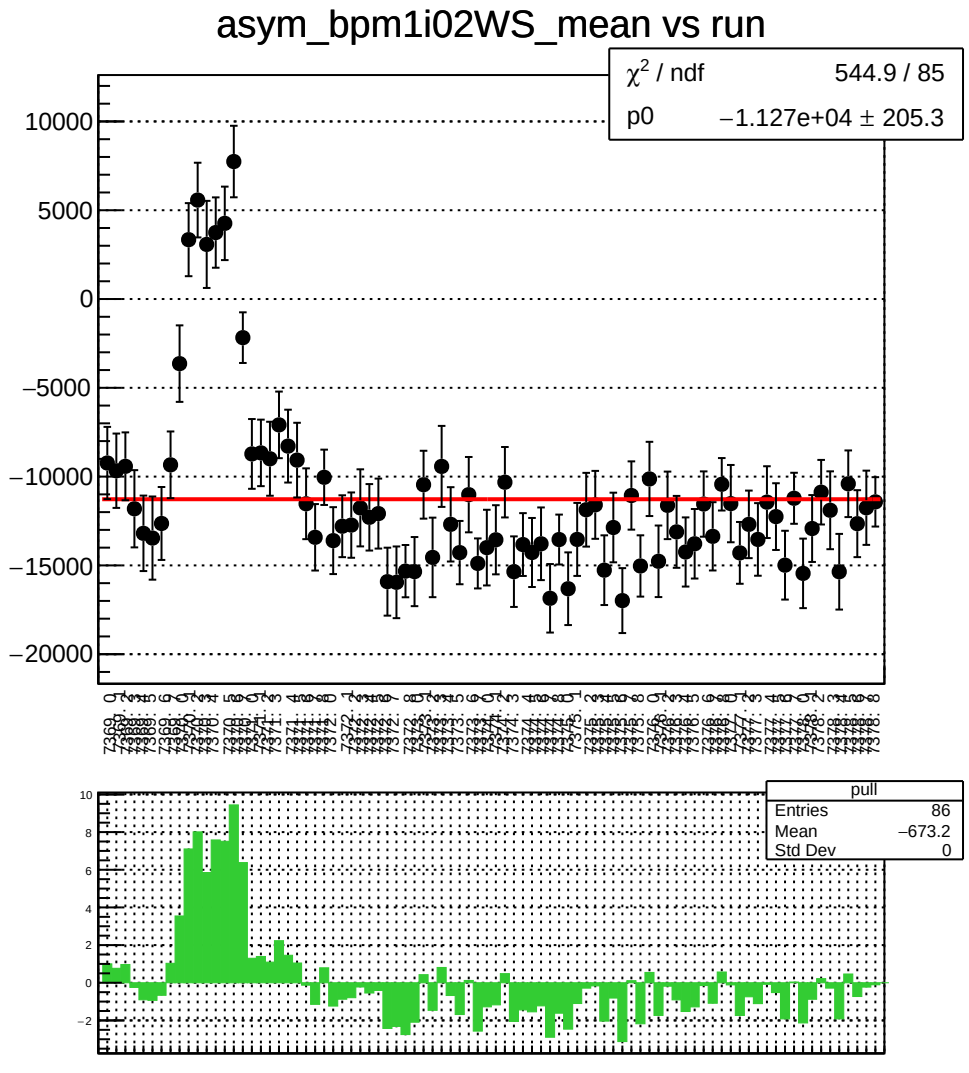

asym_bpm0i02aWS_rms vs run
χ² / ndf 5578 / 85
p0 181.5 ± 0.1401
250
240
230
220
210
200
190
180
170
160

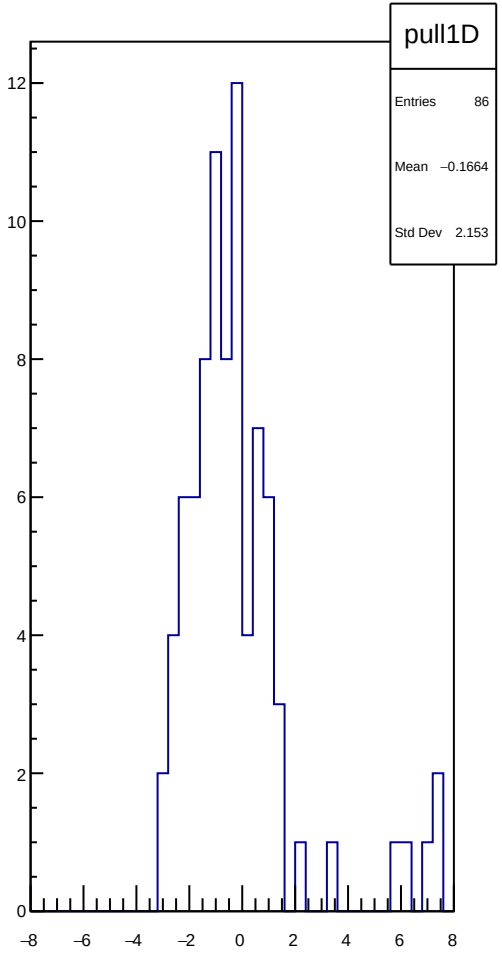

asym_bpm0i05WS_mean vs run
χ^2 / ndf 69.03 / 85
p0 −1132 ± 205.8
pull
Entries 86
Mean 189.9
Std Dev 0
pull1D
Entries 86
Mean −0.01768
Std Dev 0.8958

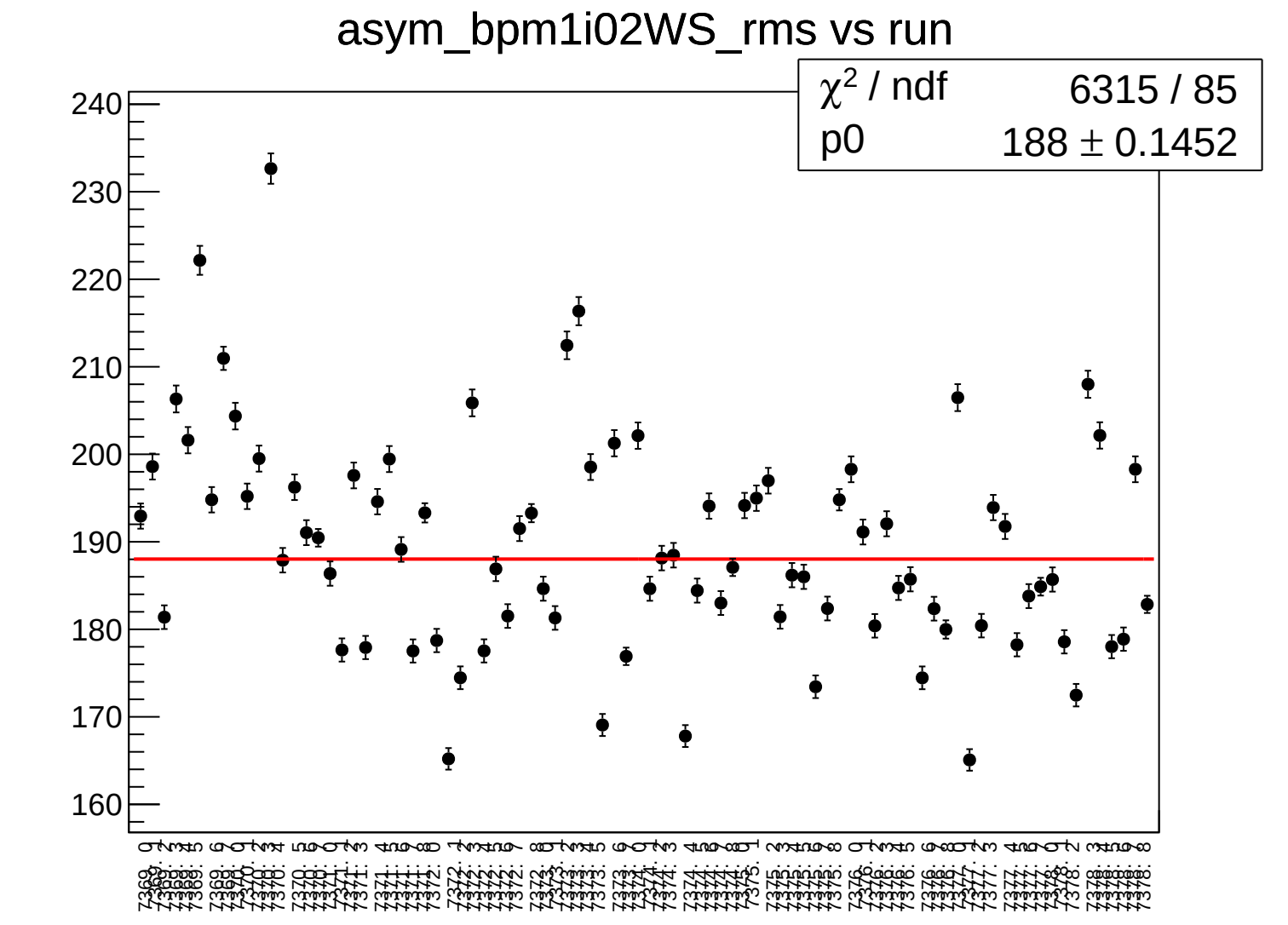

asym_bpm0i05WS_rms vs run
χ² / ndf 6933 / 85
p0 188.5 ± 0.1455
240
220
200
180
160

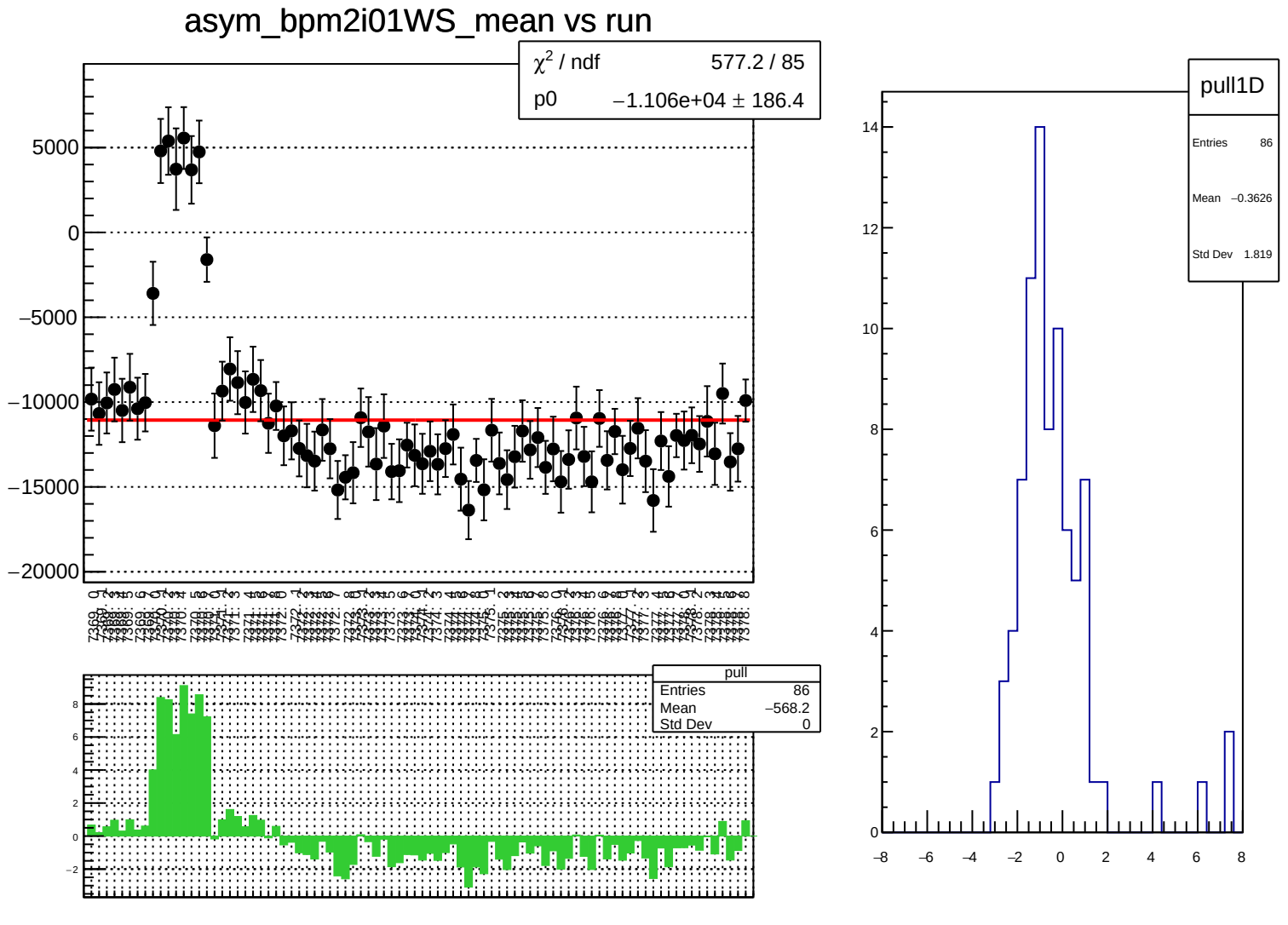

asym_bpm0i07WS_mean vs run
χ² / ndf 61.74 / 85
p0 −566.6 ± 256.2
pull
Entries 86
Mean 74.27
Std Dev 0
pull1D
Entries 86
Mean −0.01698
Std Dev 0.8471

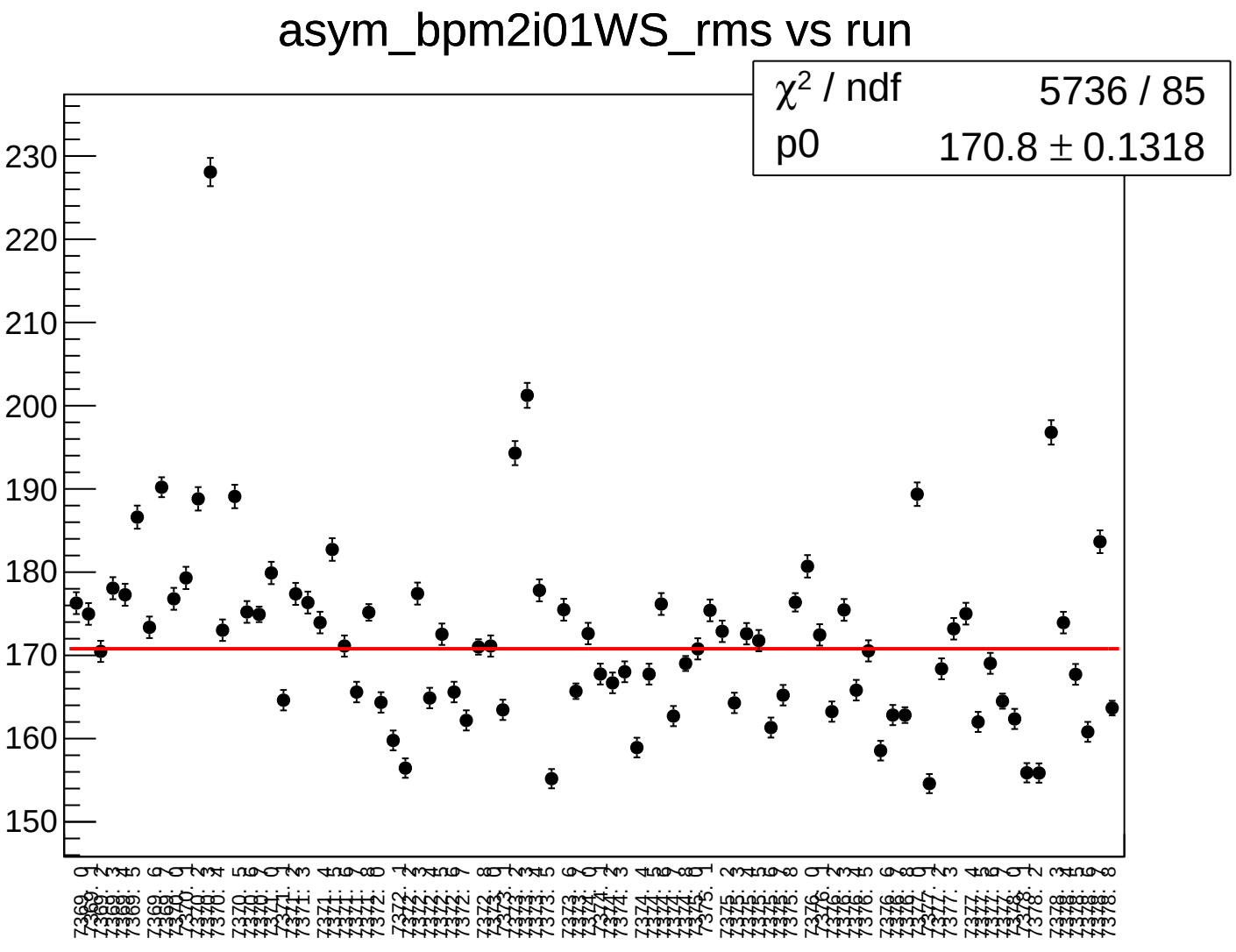

asym_bpm0i07WS_rms vs run
χ² / ndf 5136 / 85
p0 234.7 ± 0.1811
290
280
270
260
250
240
230
220
210

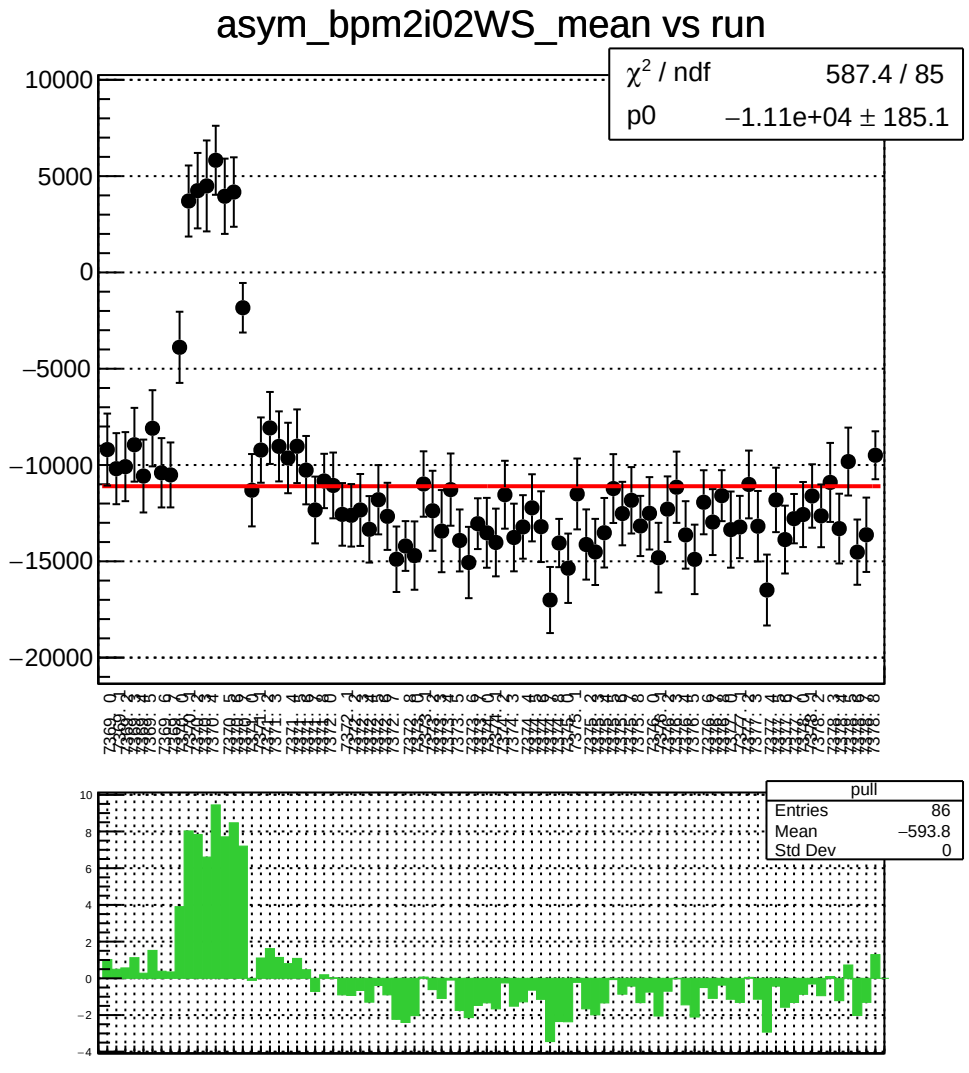

asym_bpm1i02WS_mean vs run
χ² / ndf 544.9 / 85
p0 −1.127e+04 ± 205.3
pull
Entries 86
Mean −673.2
Std Dev 0

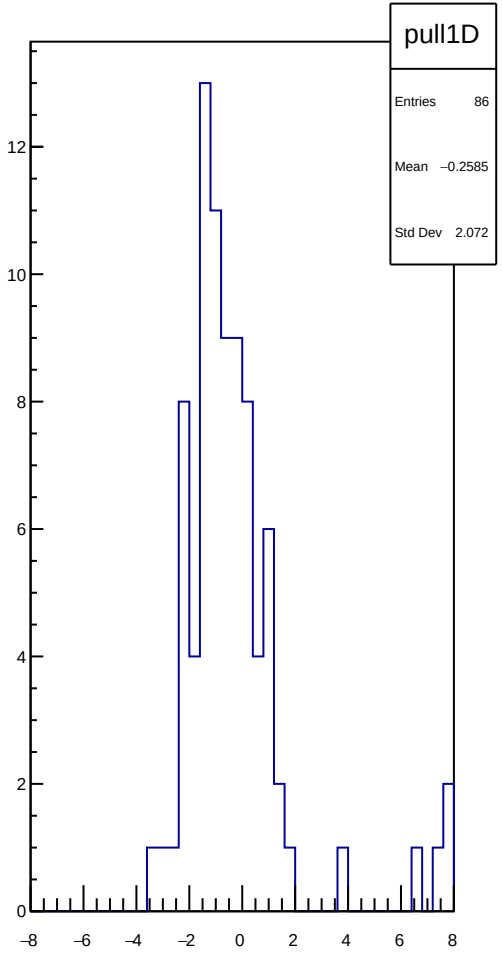

pull1D
Entries 86
Mean −0.1664
Std Dev 2.153

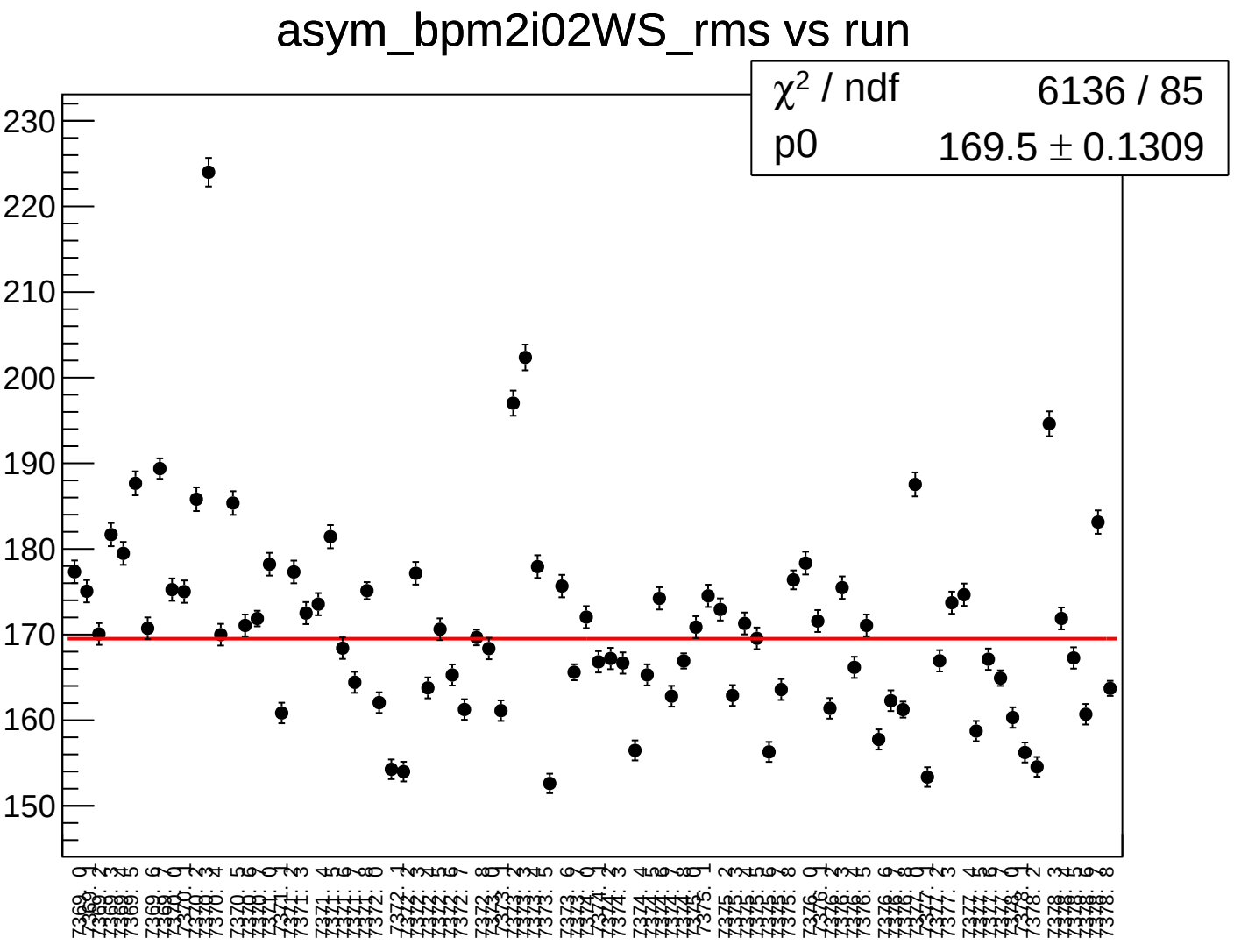

asym_bpm1i02WS_rms vs run
χ^2 / ndf 6315 / 85
p0 188 ± 0.1452
240
230
220
210
200
190
180
170
160

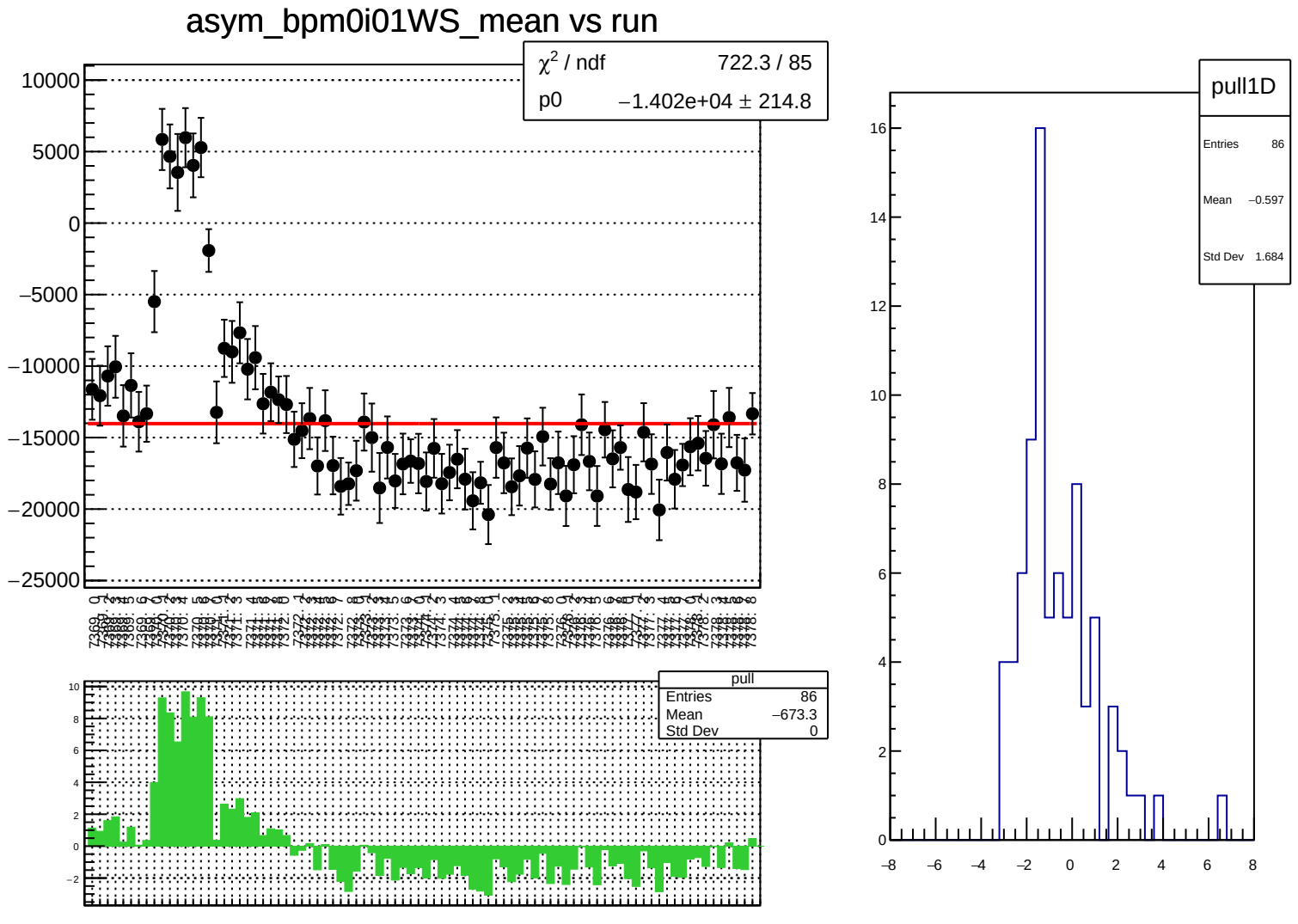

asym_bpm2i01WS_mean vs run
χ² / ndf 577.2 / 85
p0 −1.106e+04 ± 186.4
pull
Entries 86
Mean −568.2
Std Dev 0
pull1D
Entries 86
Mean −0.3626
Std Dev 1.819

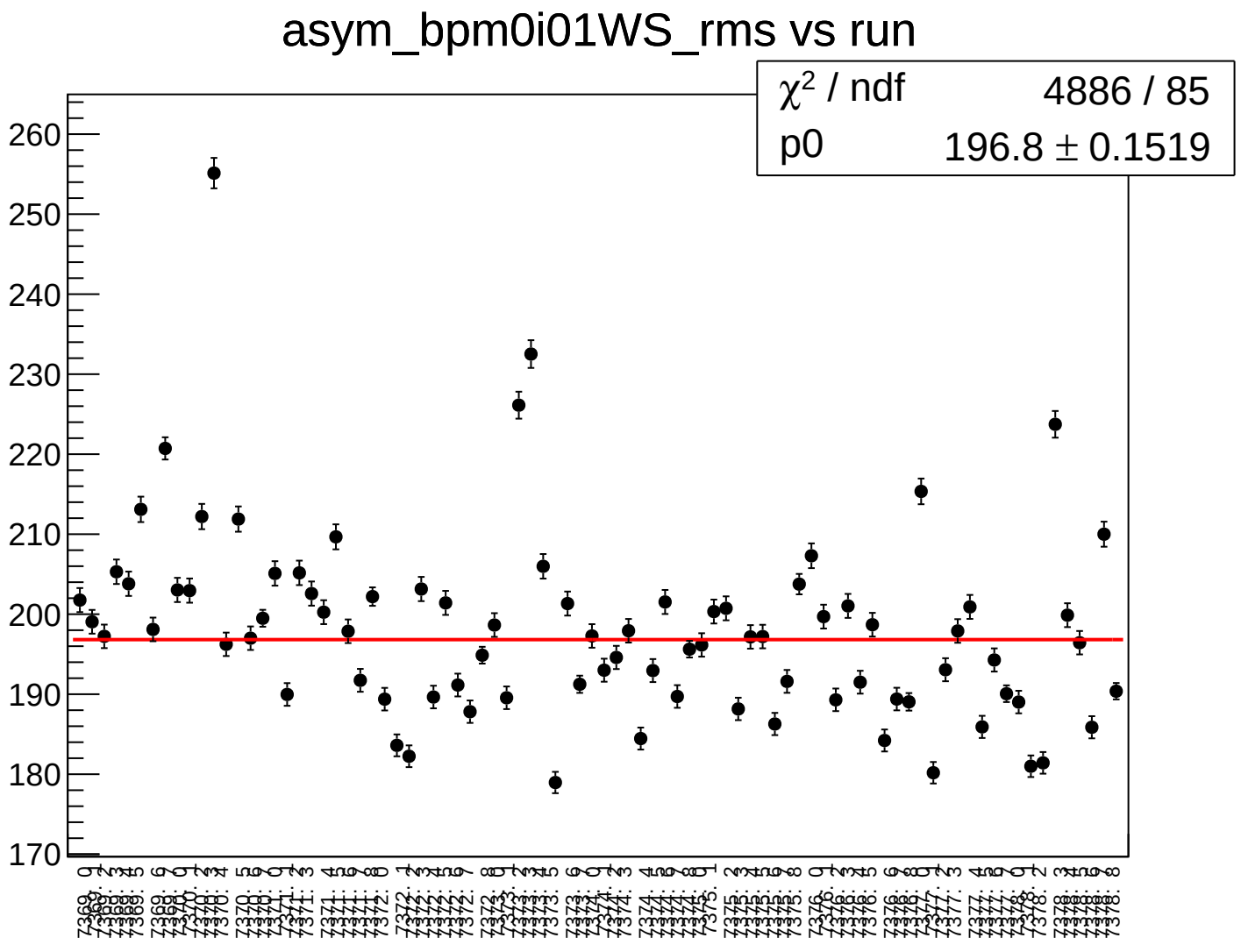

asym_bpm2i01WS_rms vs run
χ^2 / ndf 5736 / 85
p0 170.8 ± 0.1318
230
220
210
200
190
180
170
160
150

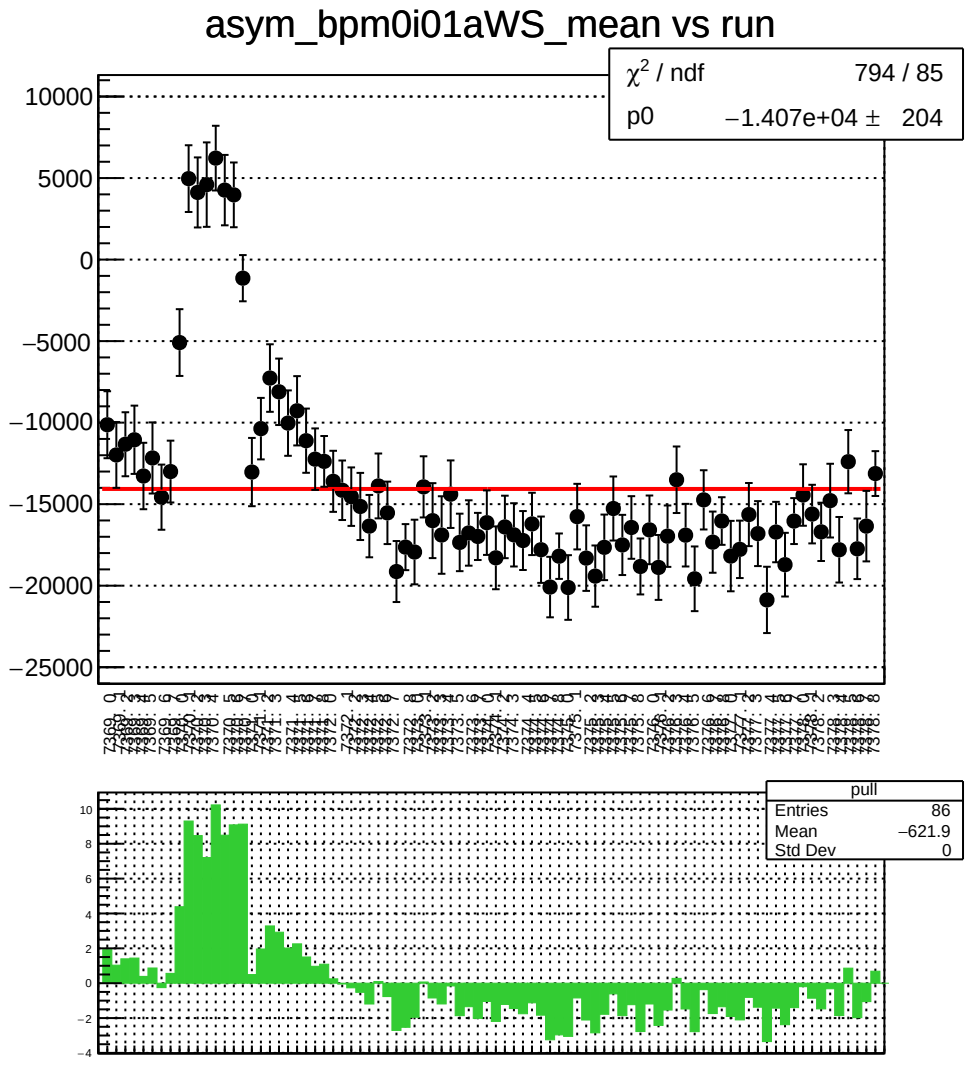

asym_bpm2i02WS_mean vs run
χ² / ndf 587.4 / 85
p0 −1.11e+04 ± 185.1
pull
Entries 86
Mean −593.8
Std Dev 0

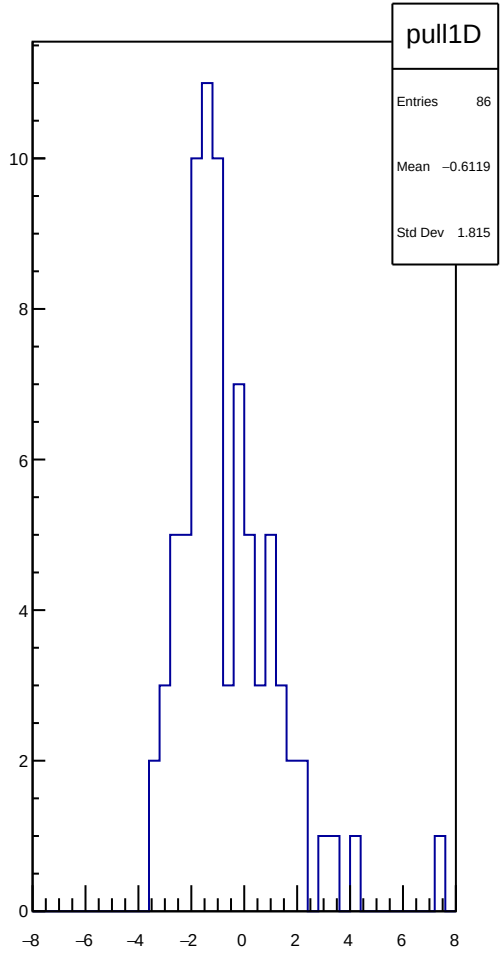

pull1D
Entries 86
Mean −0.2585
Std Dev 2.072

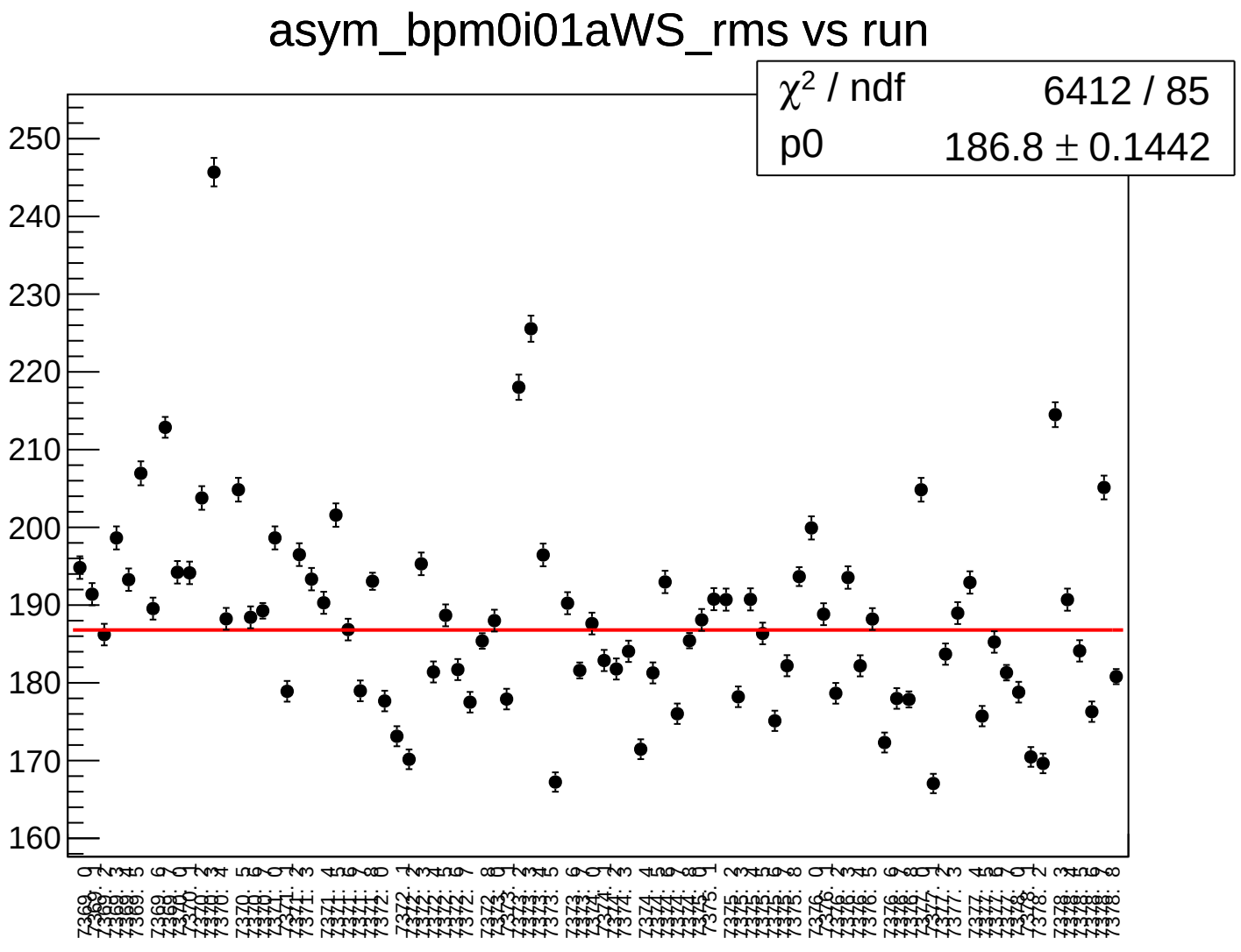

asym_bpm2i02WS_rms vs run
χ^2 / ndf 6136 / 85
p0 169.5 ± 0.1309
230
220
210
200
190
180
170
160
150

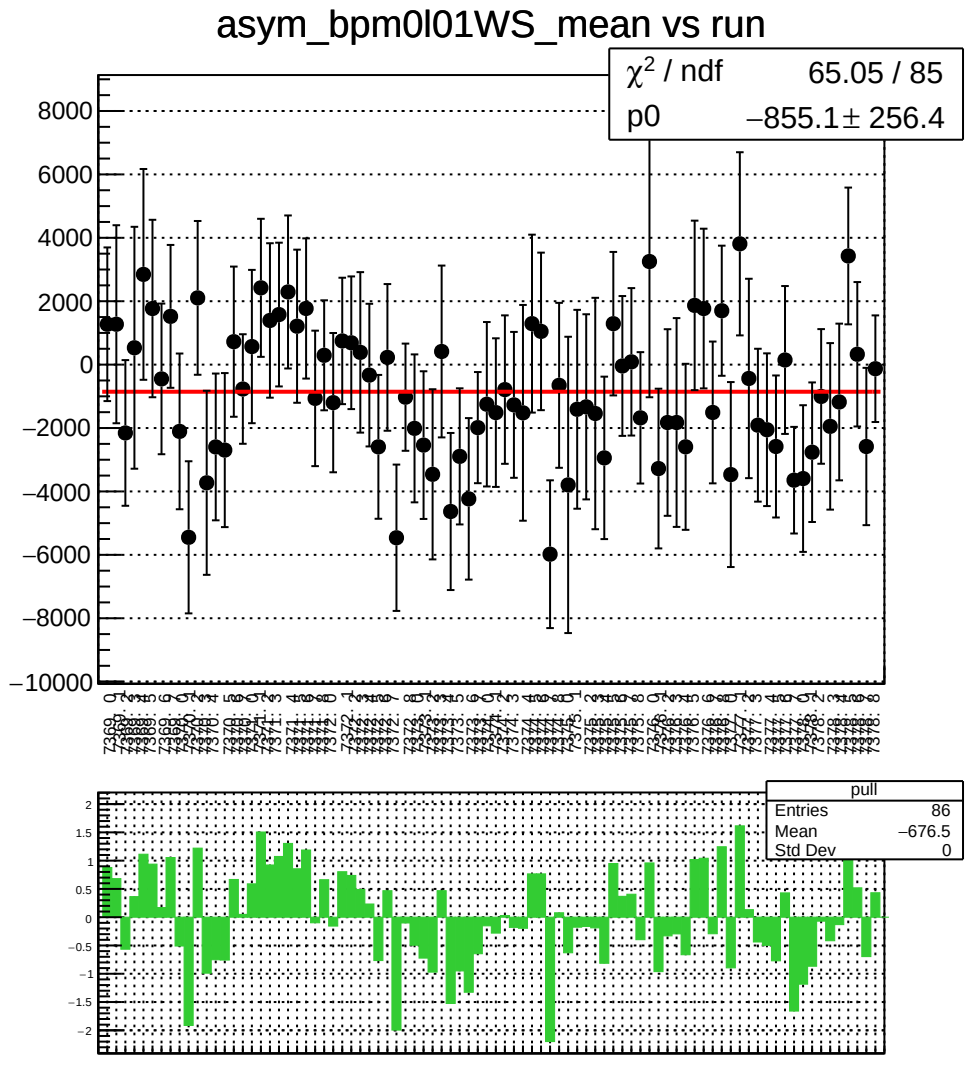

asym_bpm0i01WS_mean vs run
χ² / ndf 722.3 / 85
p0 −1.402e+04 ± 214.8
pull
Entries 86
Mean −673.3
Std Dev 0
pull1D
Entries 86
Mean −0.597
Std Dev 1.684

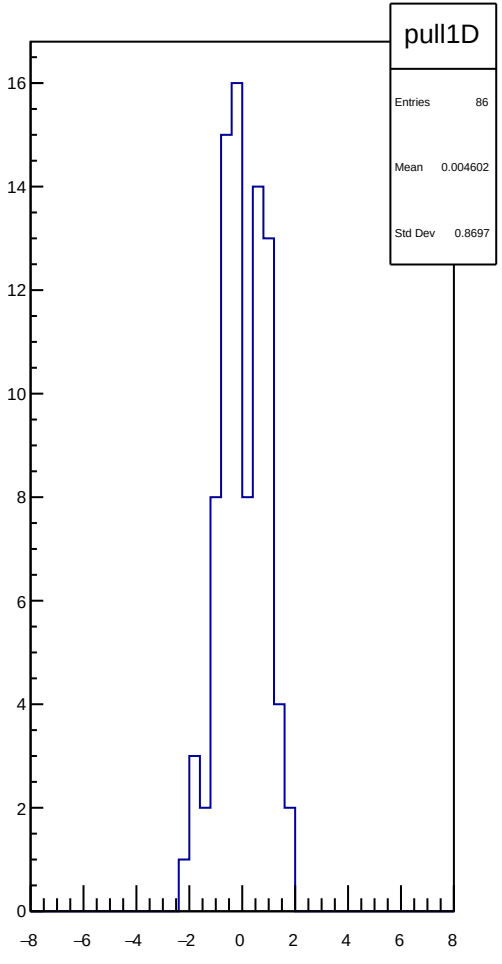

asym_bpm0i01WS_rms vs run
χ² / ndf 4886 / 85
p0 196.8 ± 0.1519
260
250
240
230
220
210
200
190
180
170

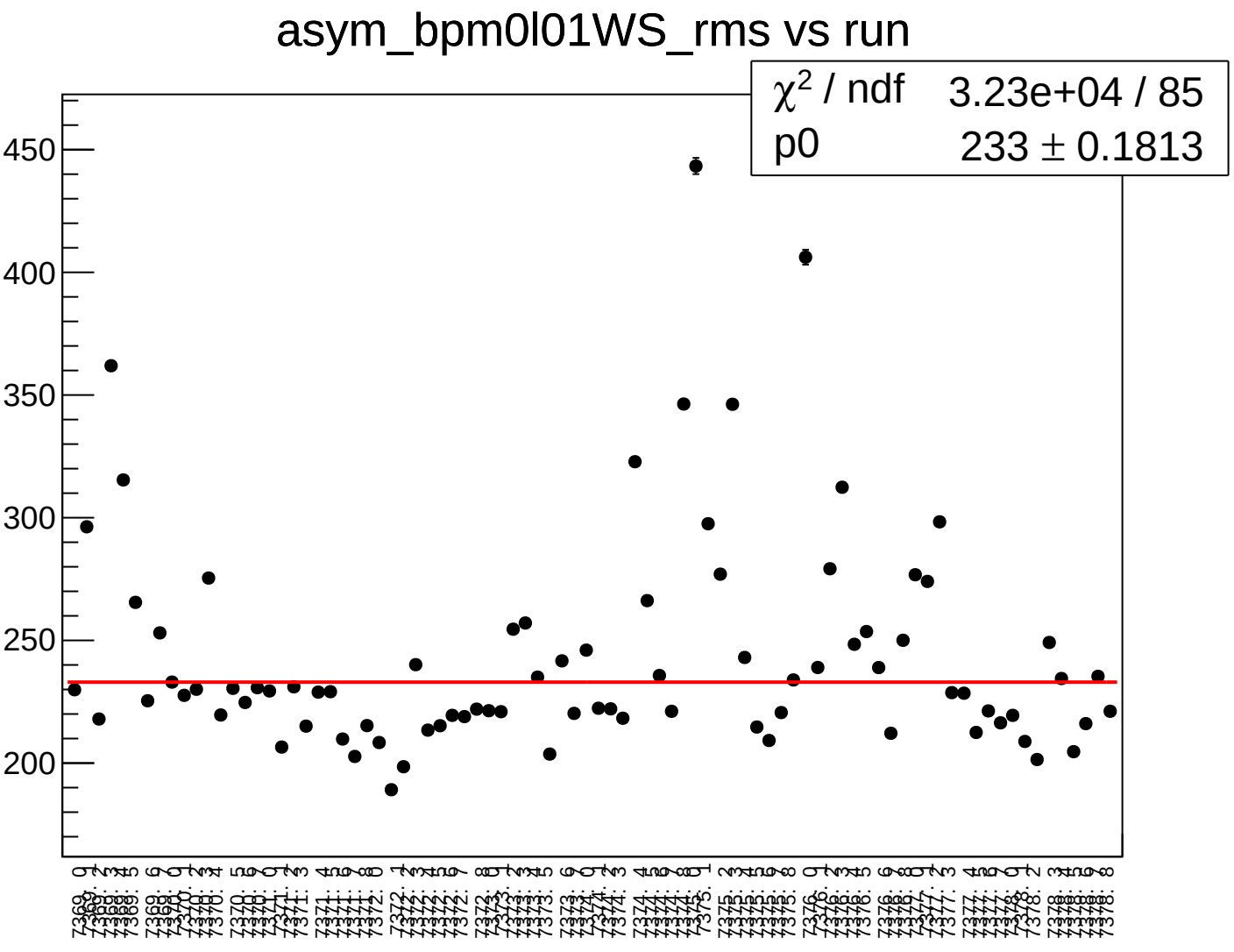

asym_bpm0i01aWS_mean vs run
χ² / ndf 794 / 85
p0 −1.407e+04 ± 204
pull
Entries 86
Mean −621.9
Std Dev 0

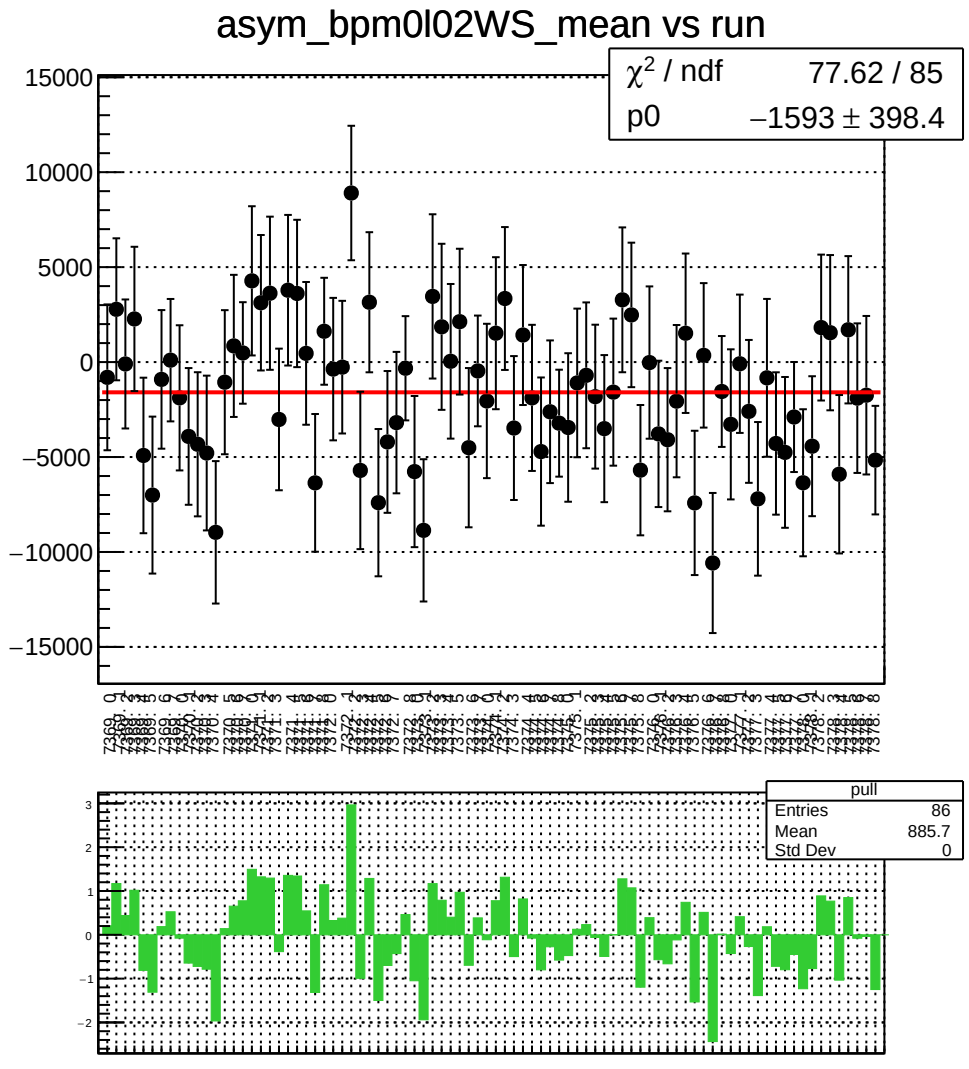

pull1D
Entries 86
Mean −0.6119
Std Dev 1.815

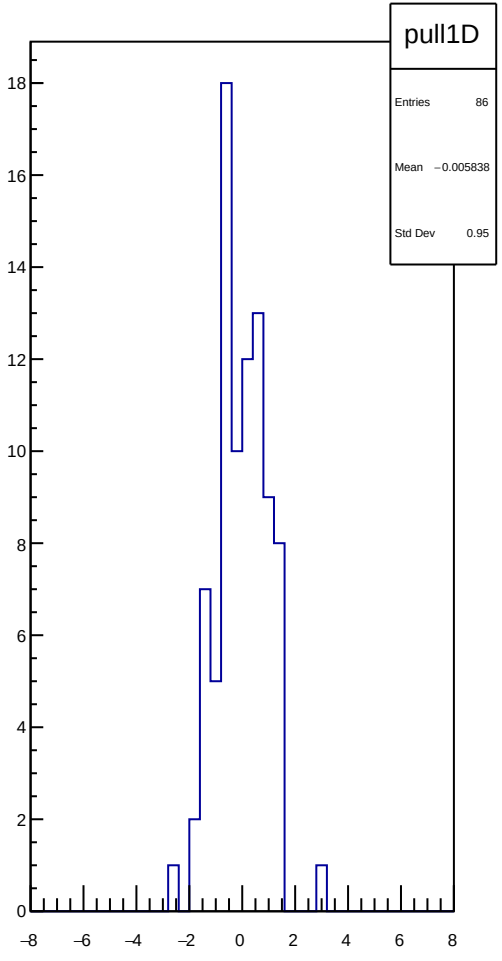

asym_bpm0i01aWS_rms vs run
χ² / ndf 6412 / 85
p0 186.8 ± 0.1442
250
240
230
220
210
200
190
180
170
160

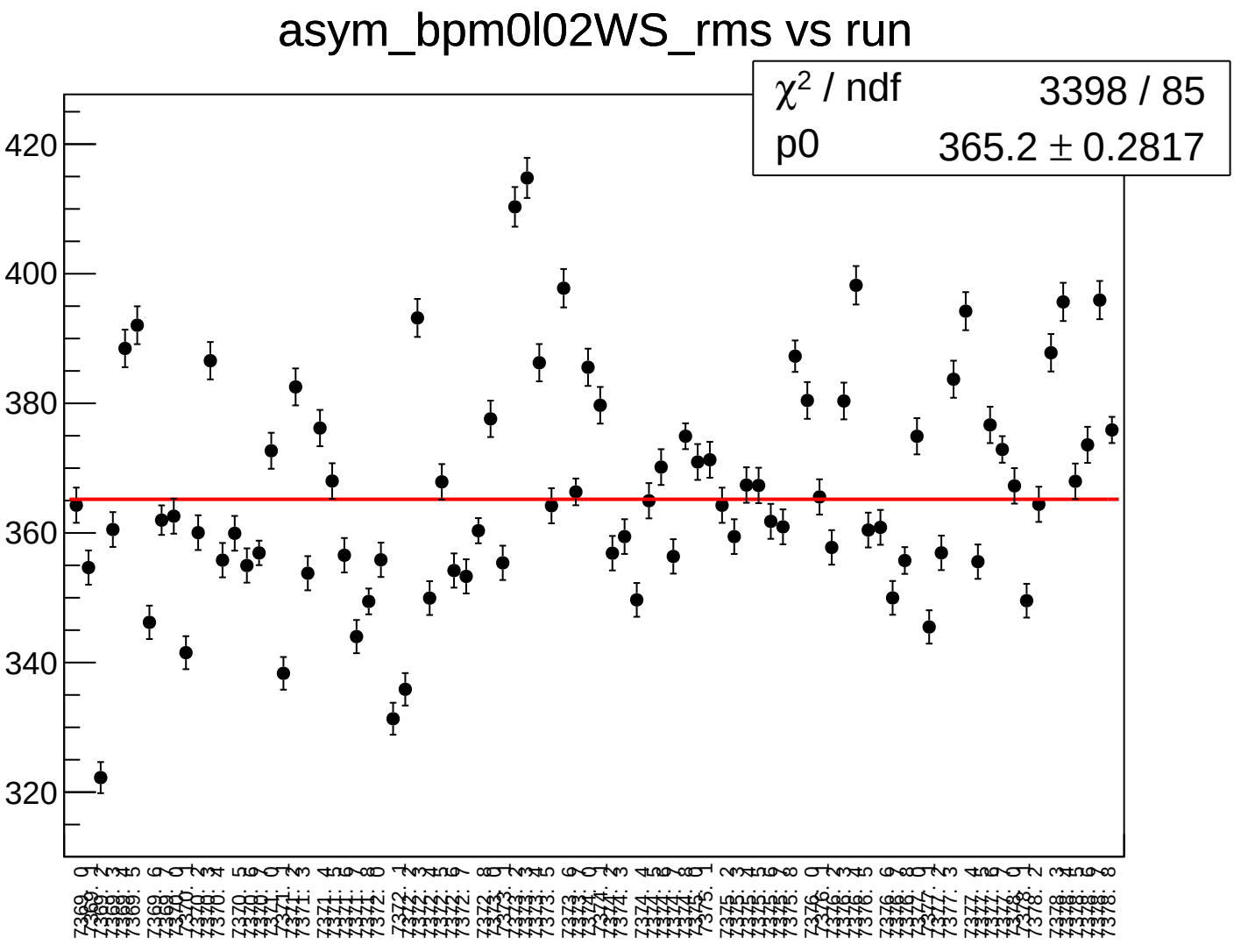

asym_bpm0l01WS_mean vs run
χ² / ndf 65.05 / 85
p0 −855.1± 256.4
pull
Entries 86
Mean −676.5
Std Dev 0

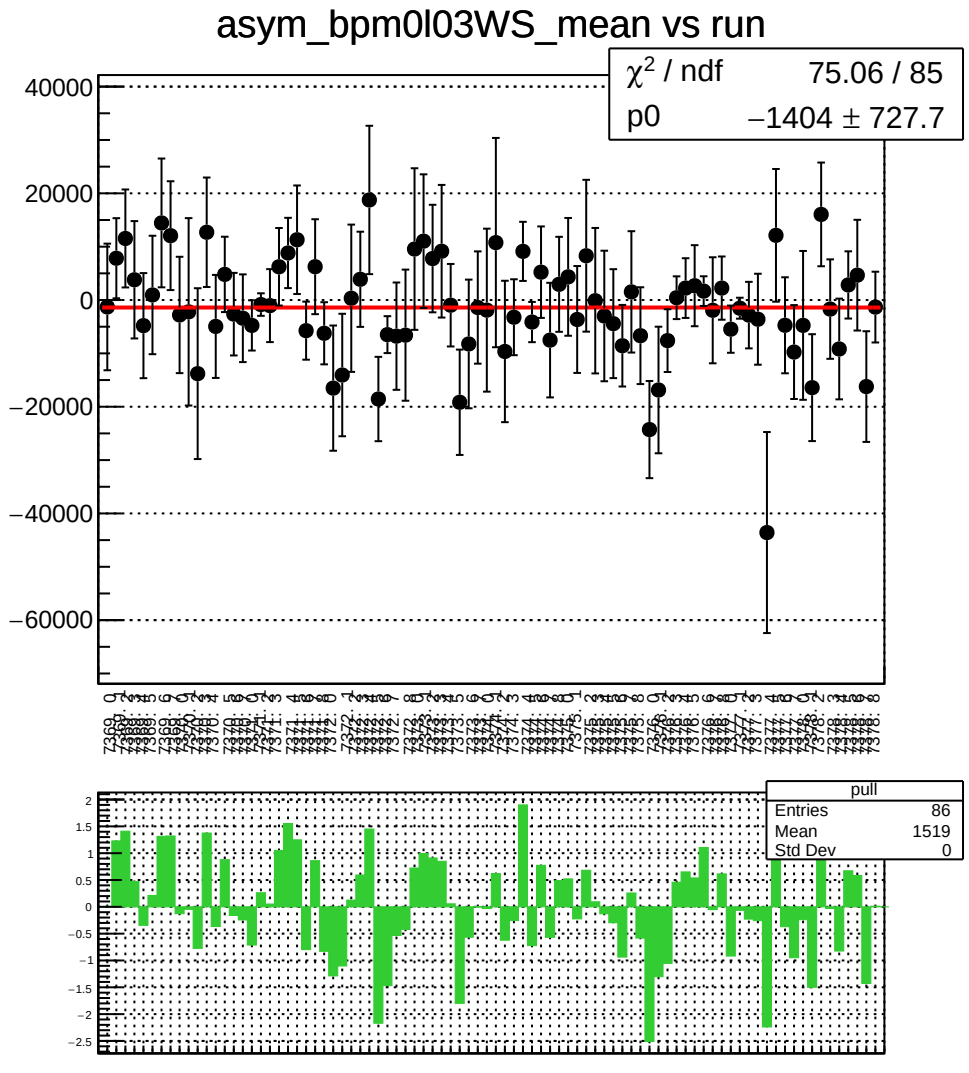

pull1D
Entries 86
Mean 0.004602
Std Dev 0.8697

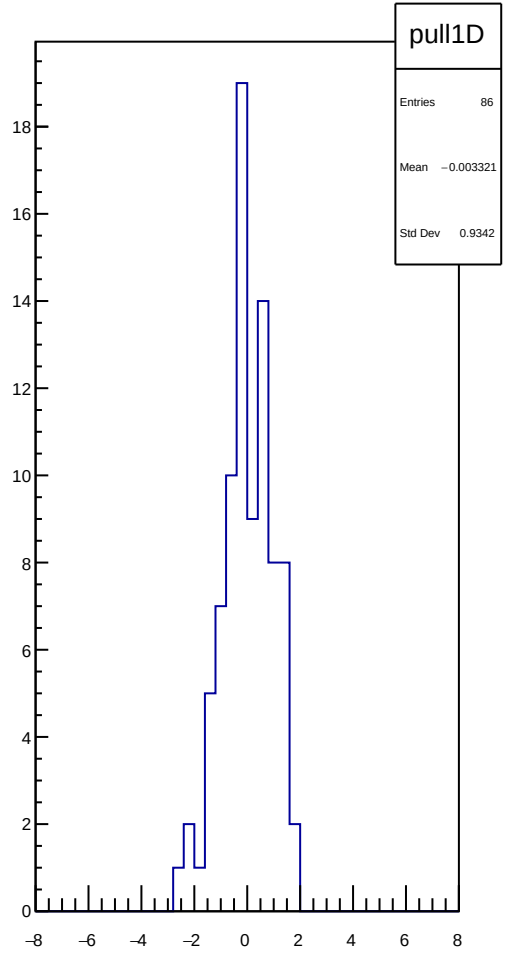

asym_bpm0l01WS_rms vs run
χ^2 / ndf 3.23e+04 / 85
p0 233 ± 0.1813
450
400
350
300
250
200

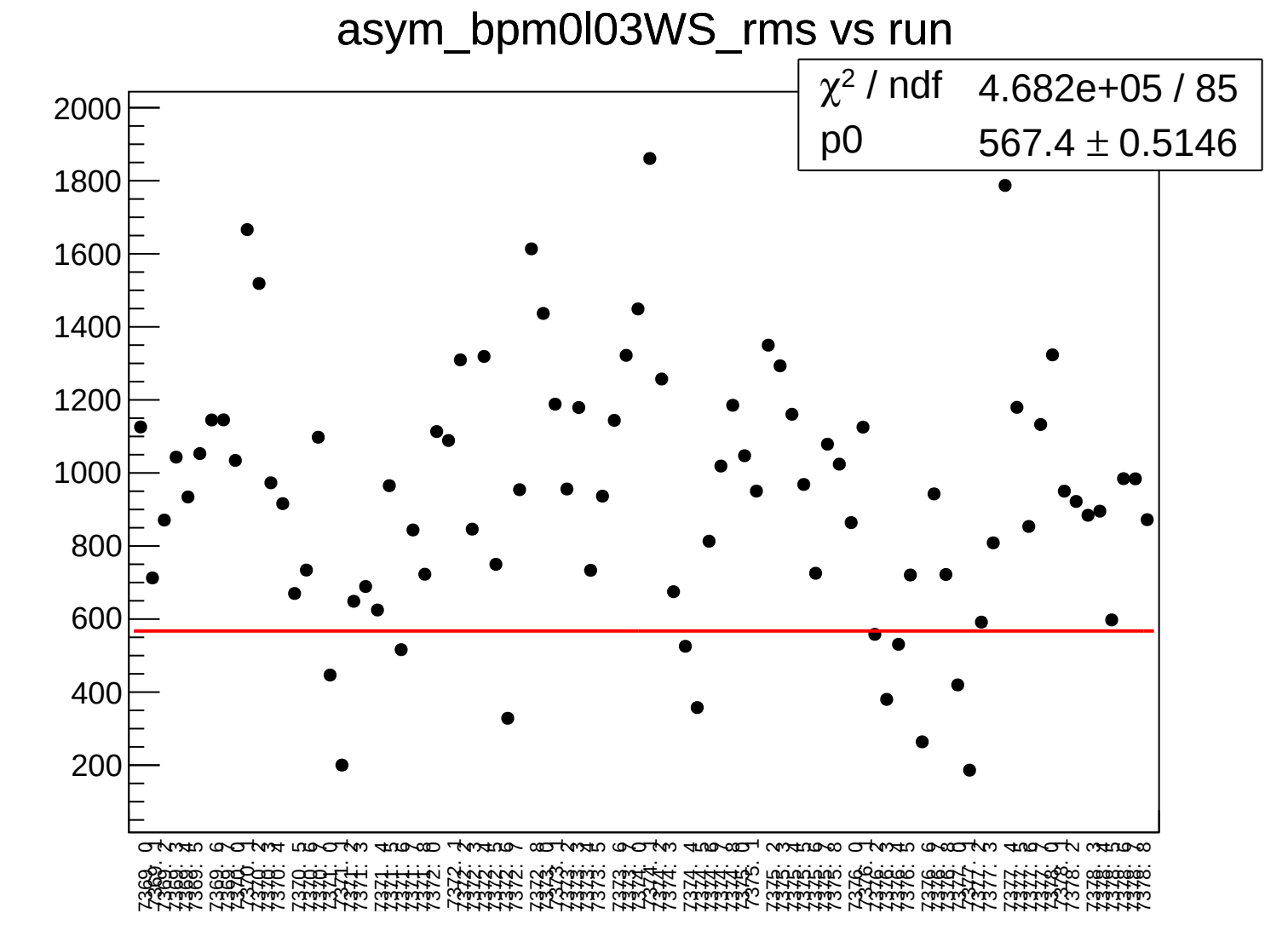

asym_bpm0l02WS_mean vs run
χ² / ndf 77.62 / 85
p0 −1593 ± 398.4
pull
Entries 86
Mean 885.7
Std Dev 0

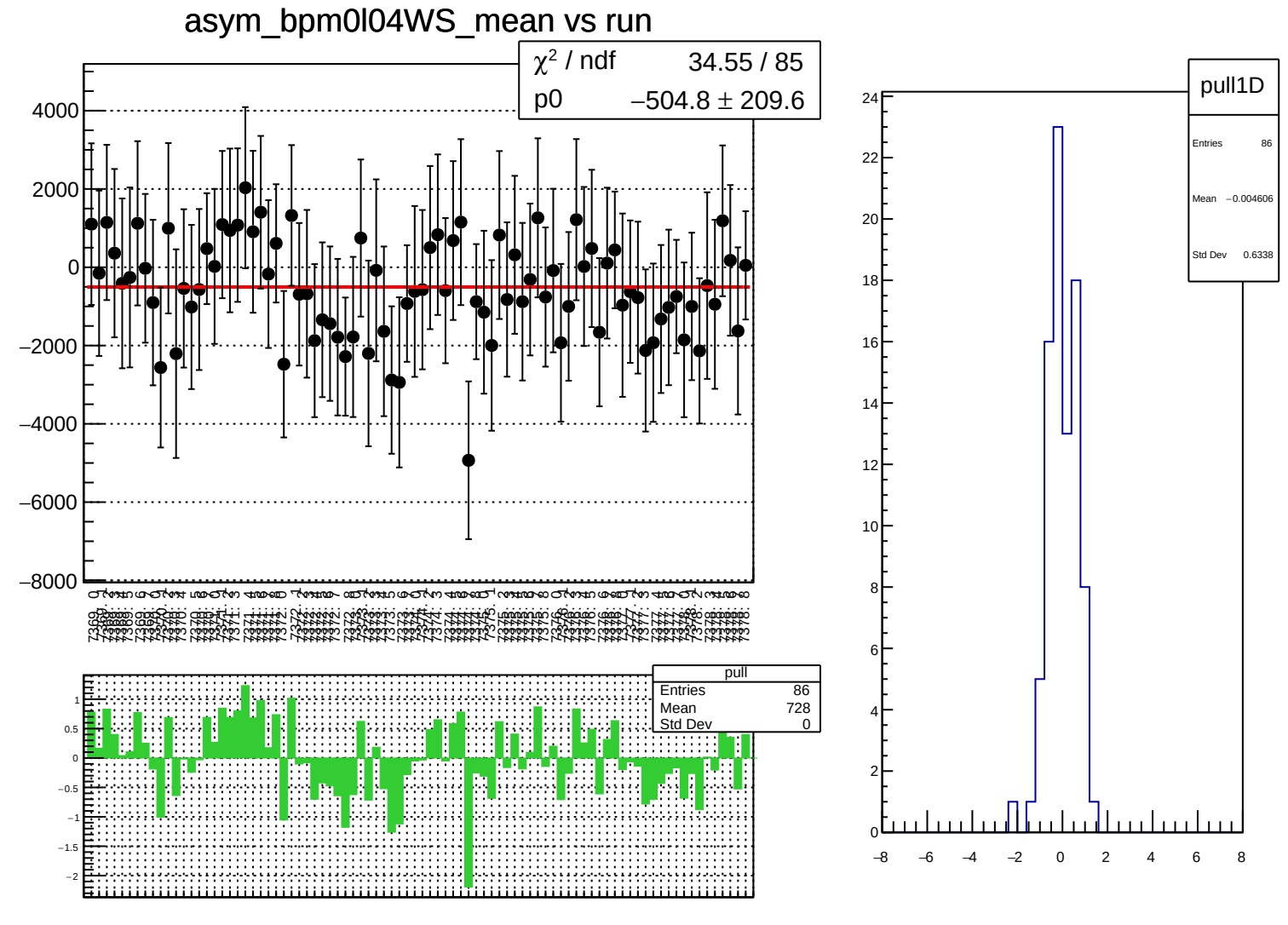

pull1D
Entries 86
Mean −0.005838
Std Dev 0.95

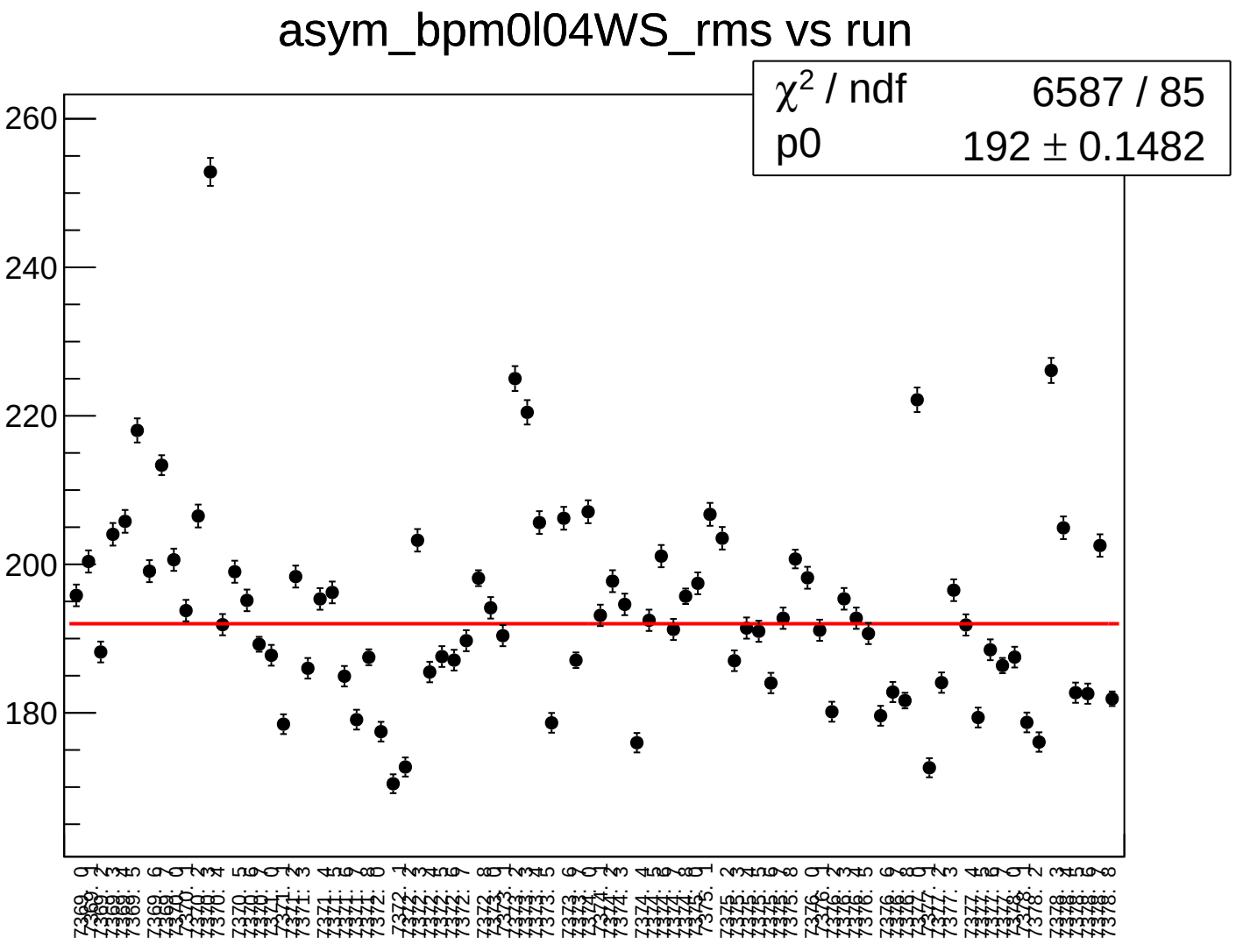

asym_bpm0l02WS_rms vs run
χ^2 / ndf 3398 / 85
p0 365.2 ± 0.2817
420
400
380
360
340
320

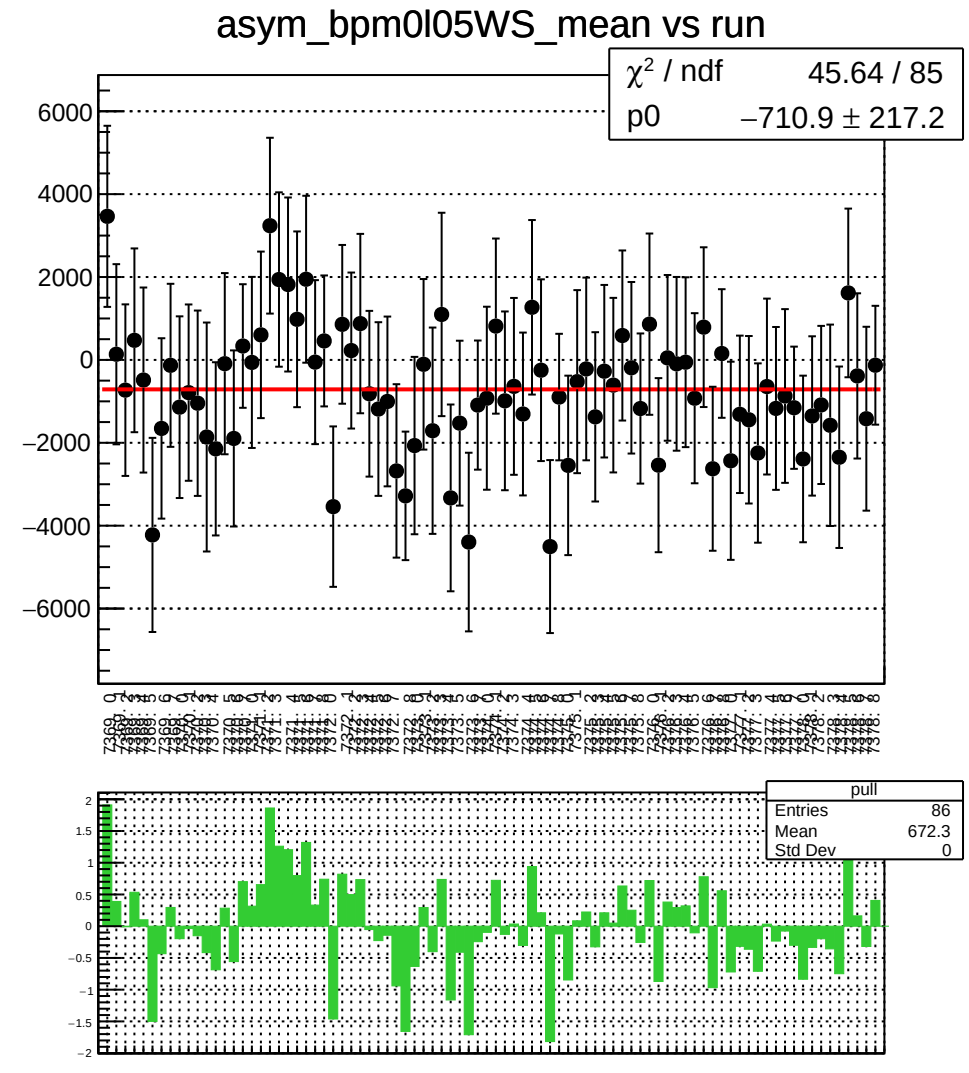

asym_bpm0l03WS_mean vs run
χ^2 / ndf 75.06 / 85
p0 −1404 ± 727.7
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1519
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

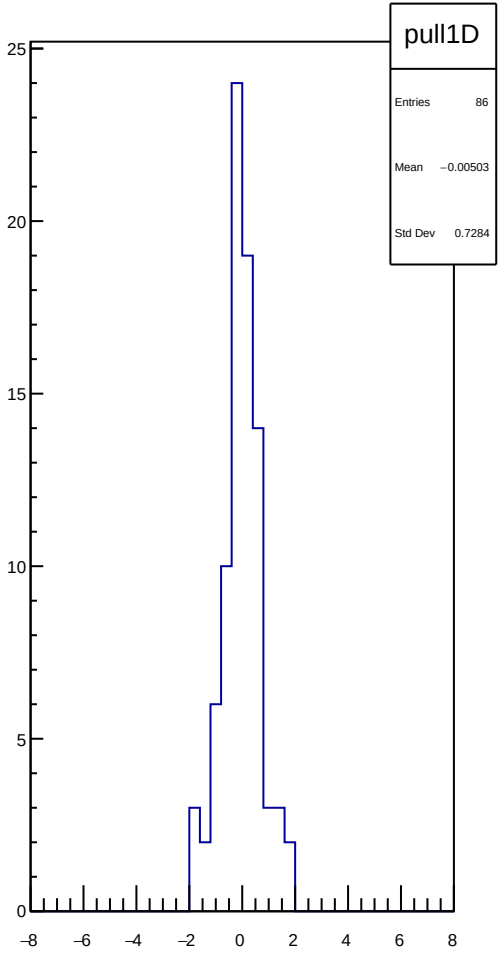

pull1D
Entries 86
Mean −0.003321
Std Dev 0.9342
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

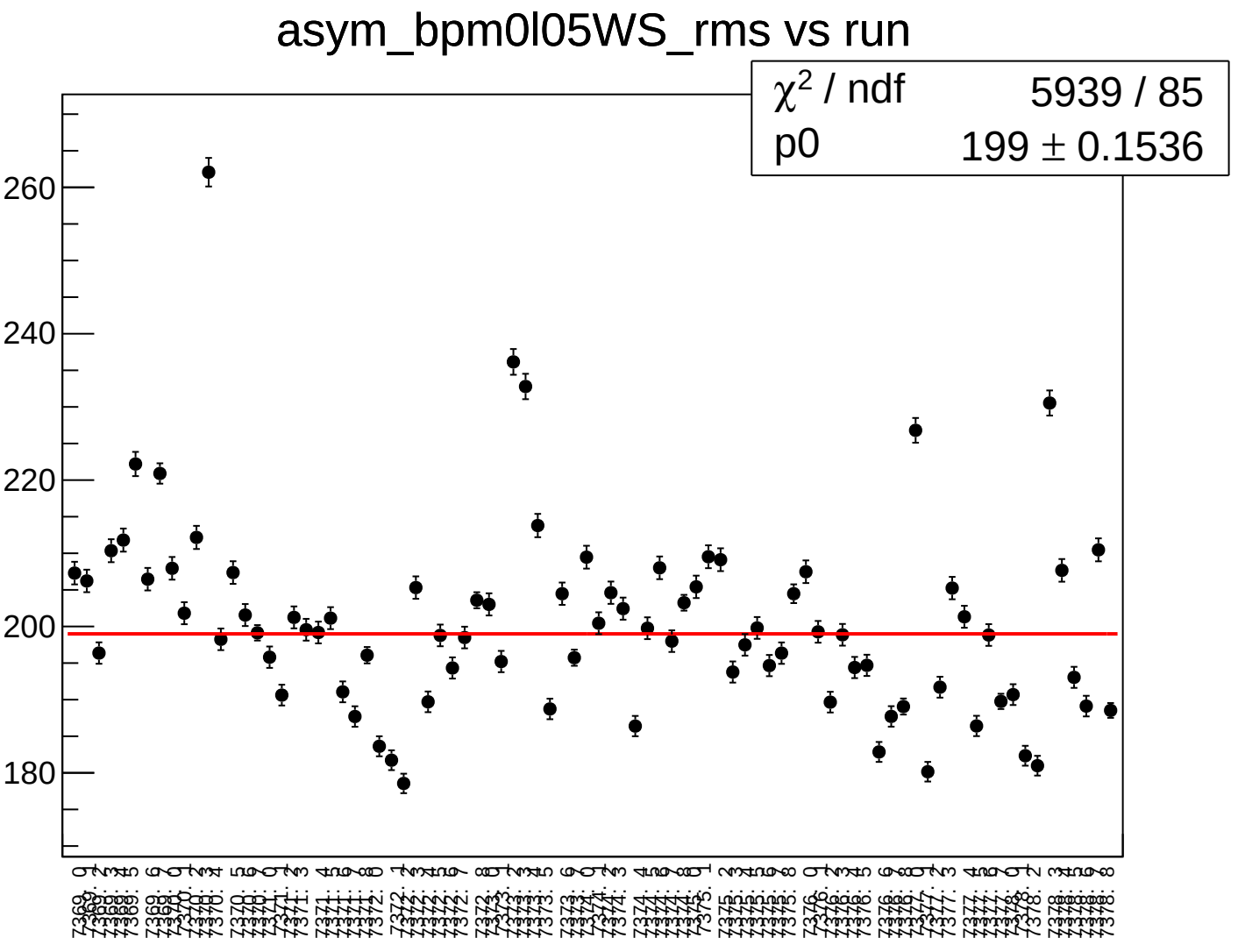

asym_bpm0l03WS_rms vs run
χ² / ndf 4.682e+05 / 85
p0 567.4 ± 0.5146
2000
1800
1600
1400
1200
1000
800
600
400
200

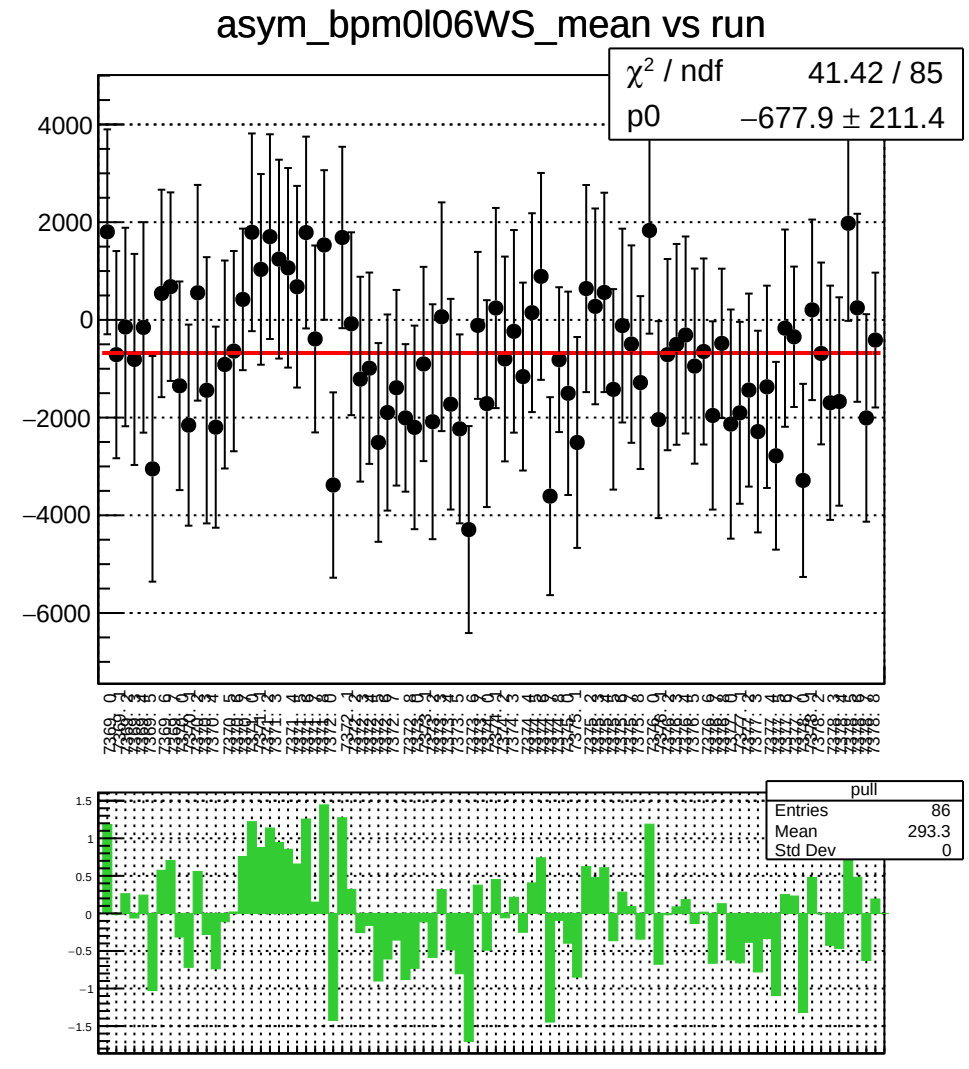

asym_bpm0l04WS_mean vs run
χ² / ndf 34.55 / 85
p0 −504.8 ± 209.6
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean 728
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.004606
Std Dev 0.6338
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

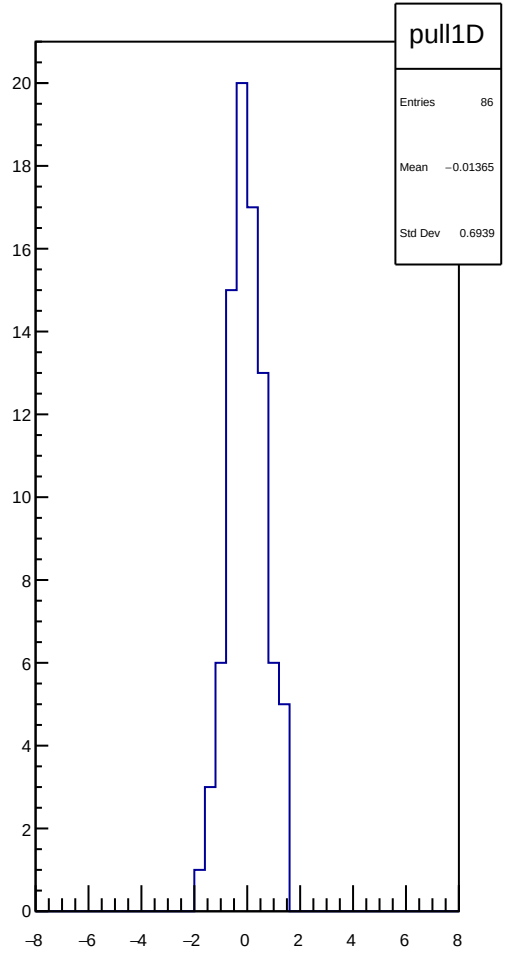

asym_bpm0l04WS_rms vs run
χ^2 / ndf 6587 / 85
p0 192 ± 0.1482
260
240
220
200
180

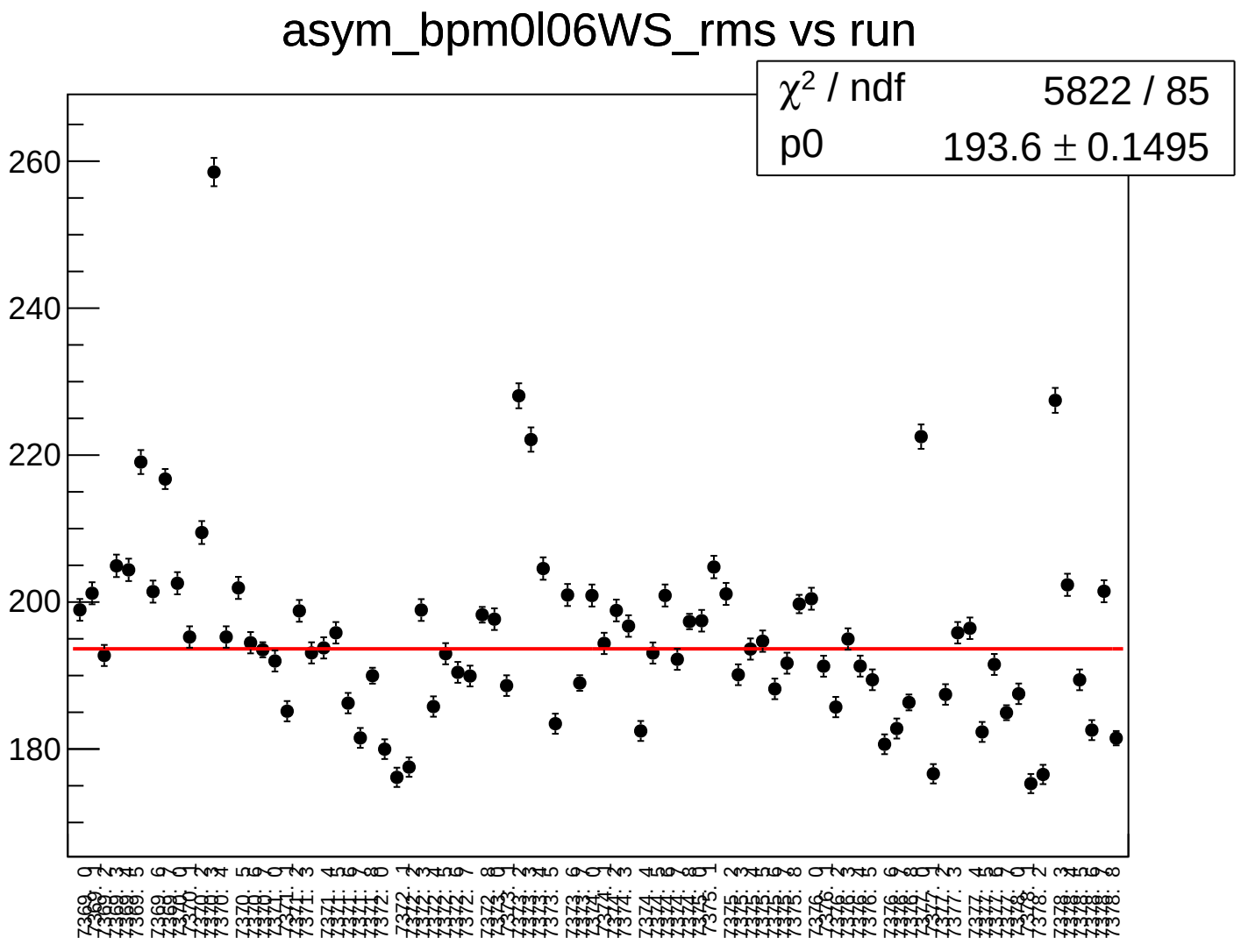

asym_bpm0l05WS_mean vs run
χ² / ndf 45.64 / 85
p0 −710.9 ± 217.2
pull
Entries 86
Mean 672.3
Std Dev 0

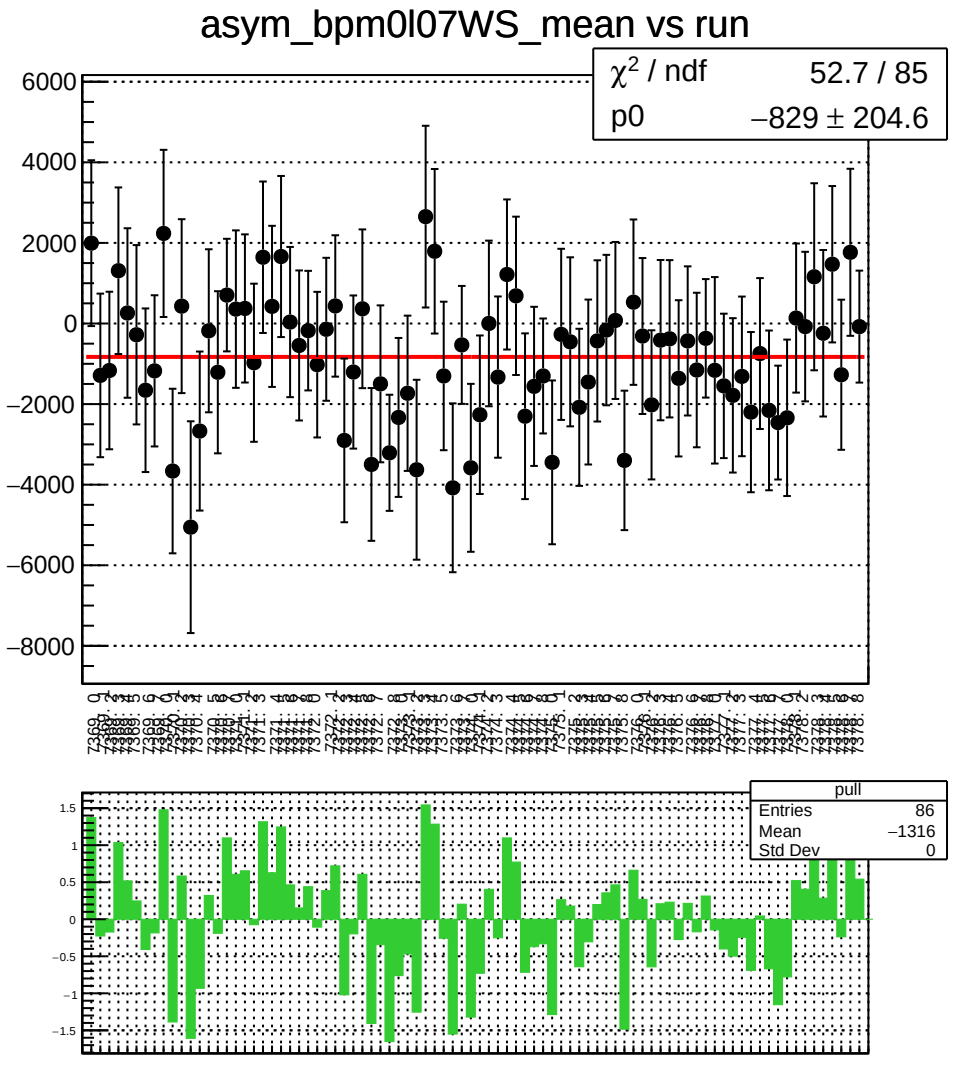

pull1D
Entries 86
Mean −0.00503
Std Dev 0.7284

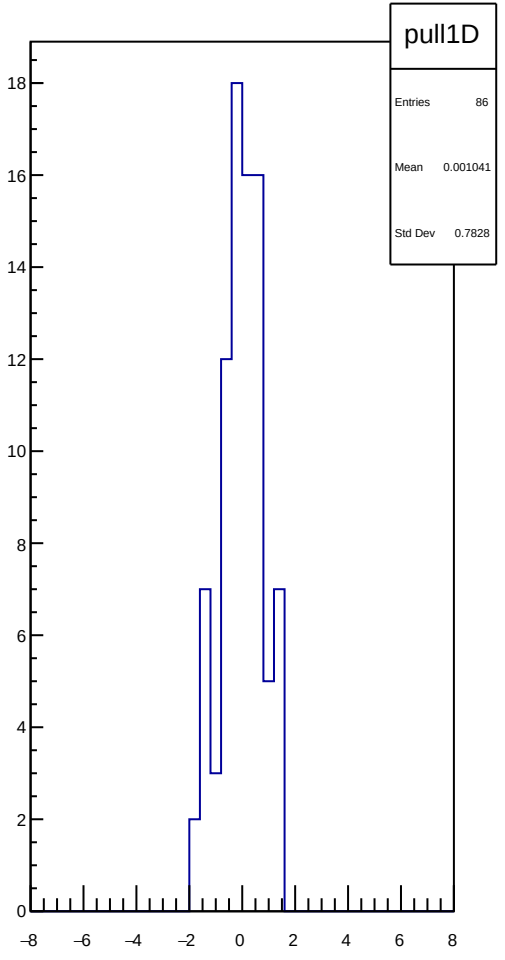

asym_bpm0l05WS_rms vs run
χ² / ndf 5939 / 85
p0 199 ± 0.1536
260
240
220
200
180

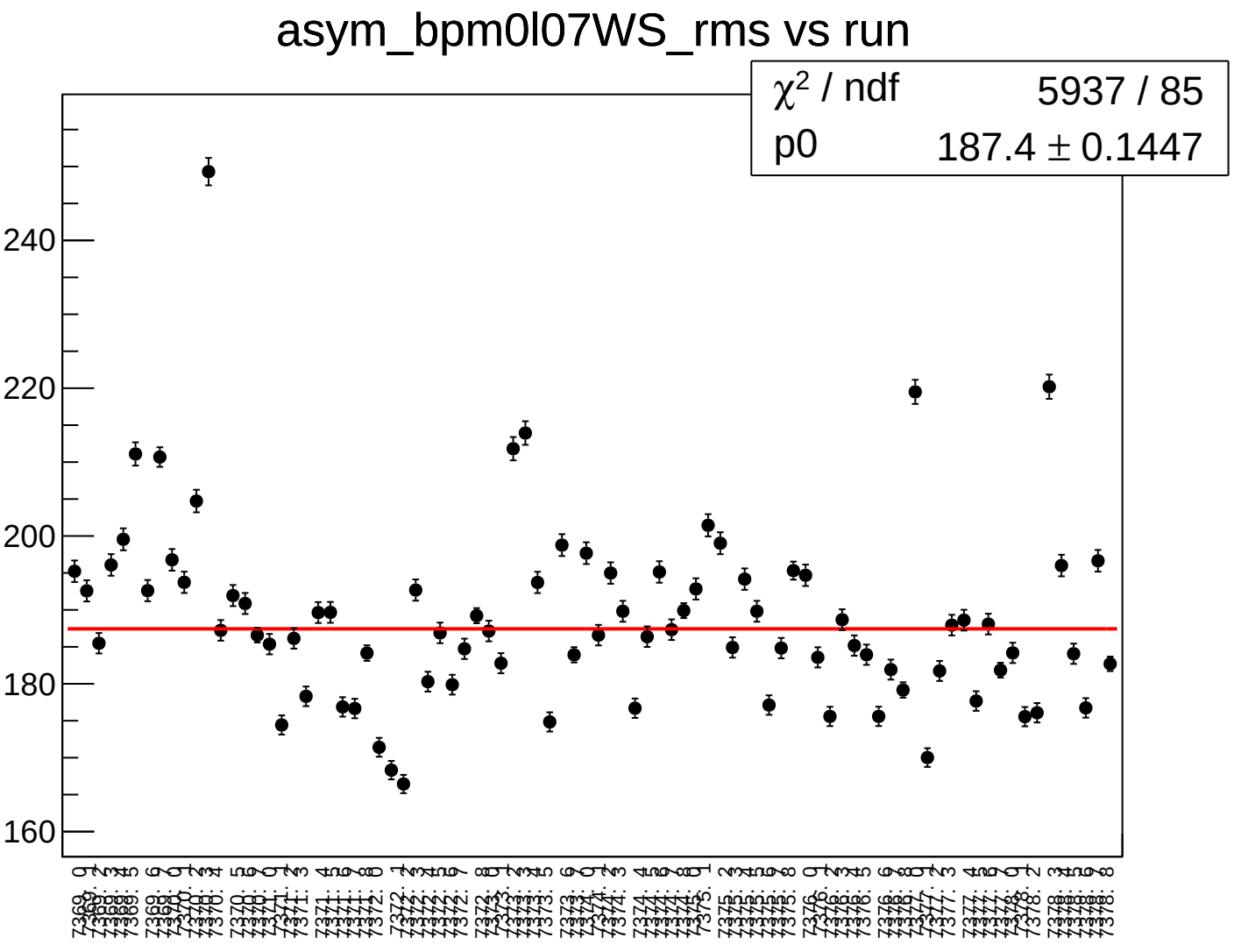

asym_bpm0l06WS_mean vs run
χ² / ndf 41.42 / 85
p0 −677.9 ± 211.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 293.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

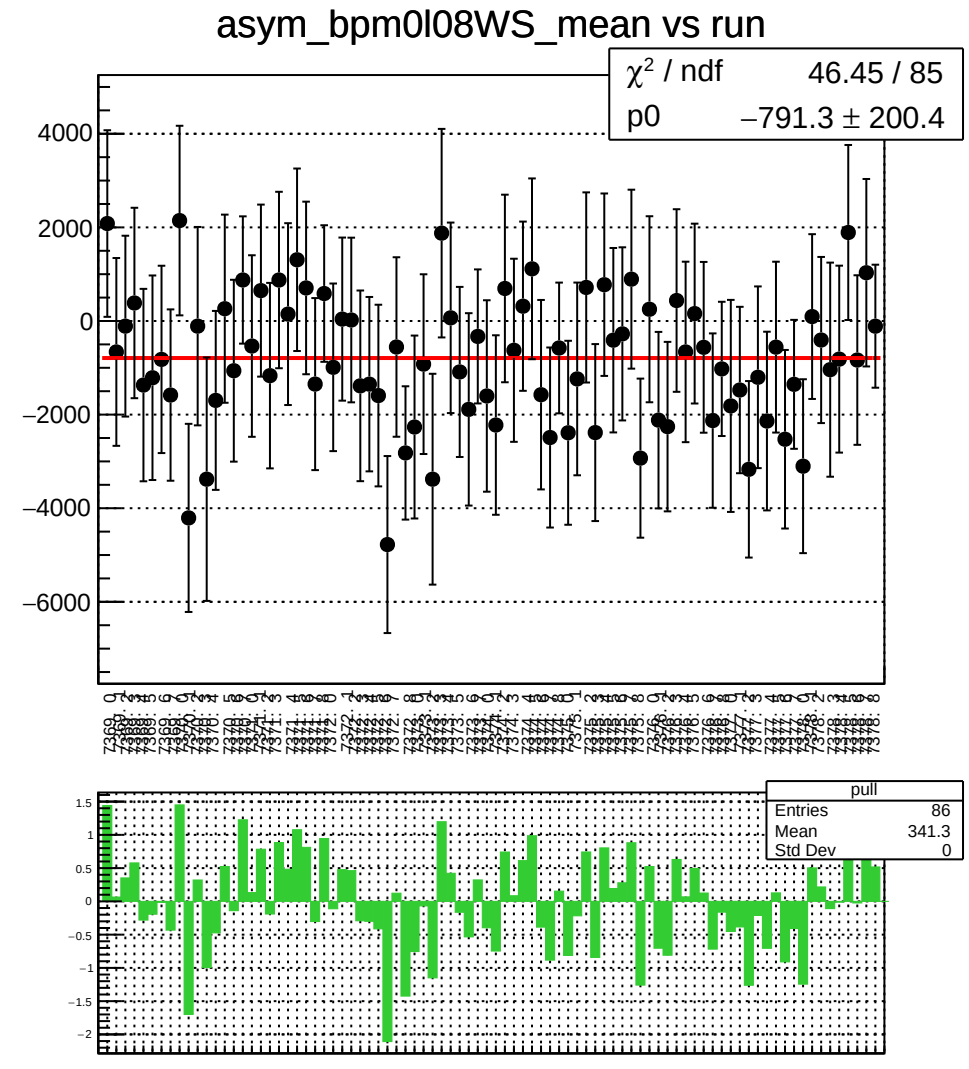

pull1D
Entries 86
Mean −0.01365
Std Dev 0.6939
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

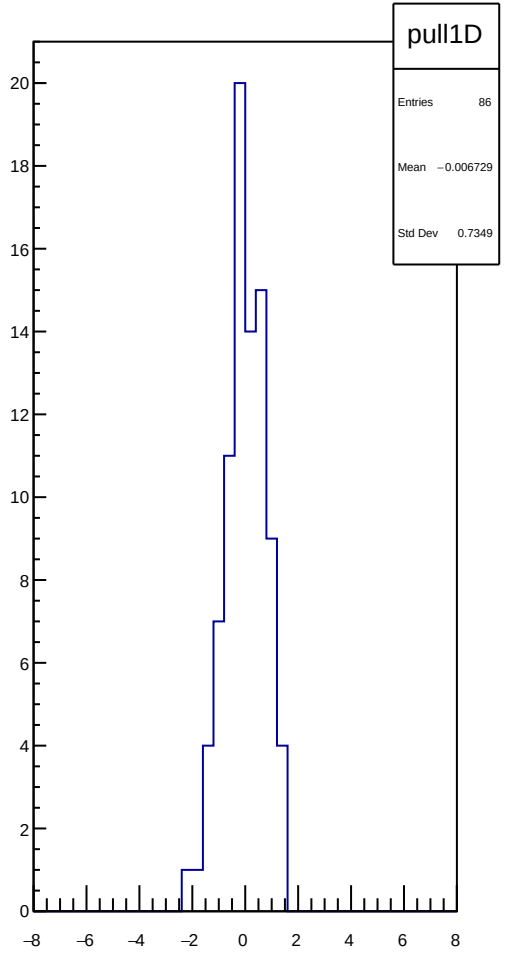

asym_bpm0l06WS_rms vs run
χ² / ndf 5822 / 85
p0 193.6 ± 0.1495
260
240
220
200
180

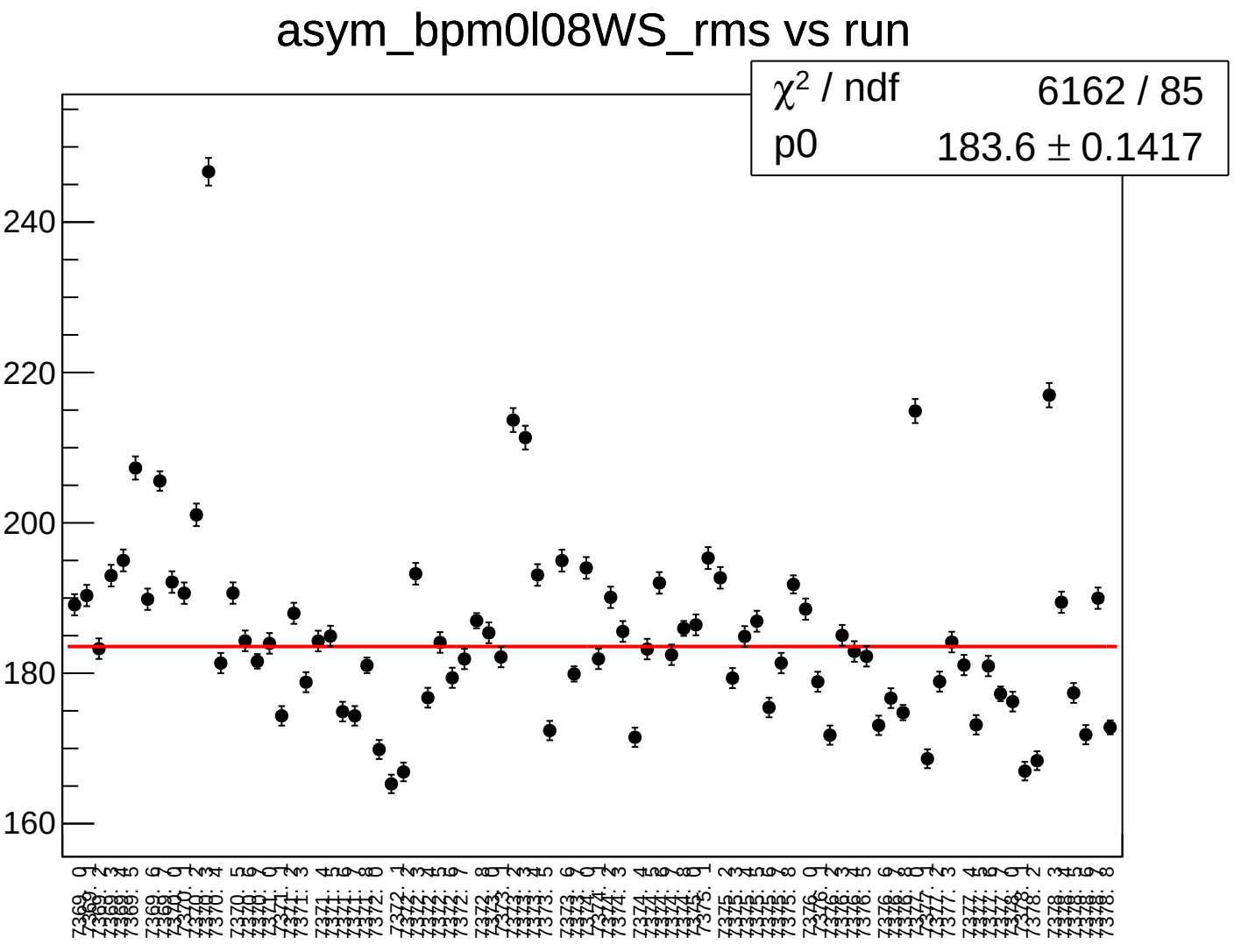

asym_bpm0l07WS_mean vs run
χ² / ndf 52.7 / 85
p0 −829 ± 204.6
pull
Entries 86
Mean −1316
Std Dev 0

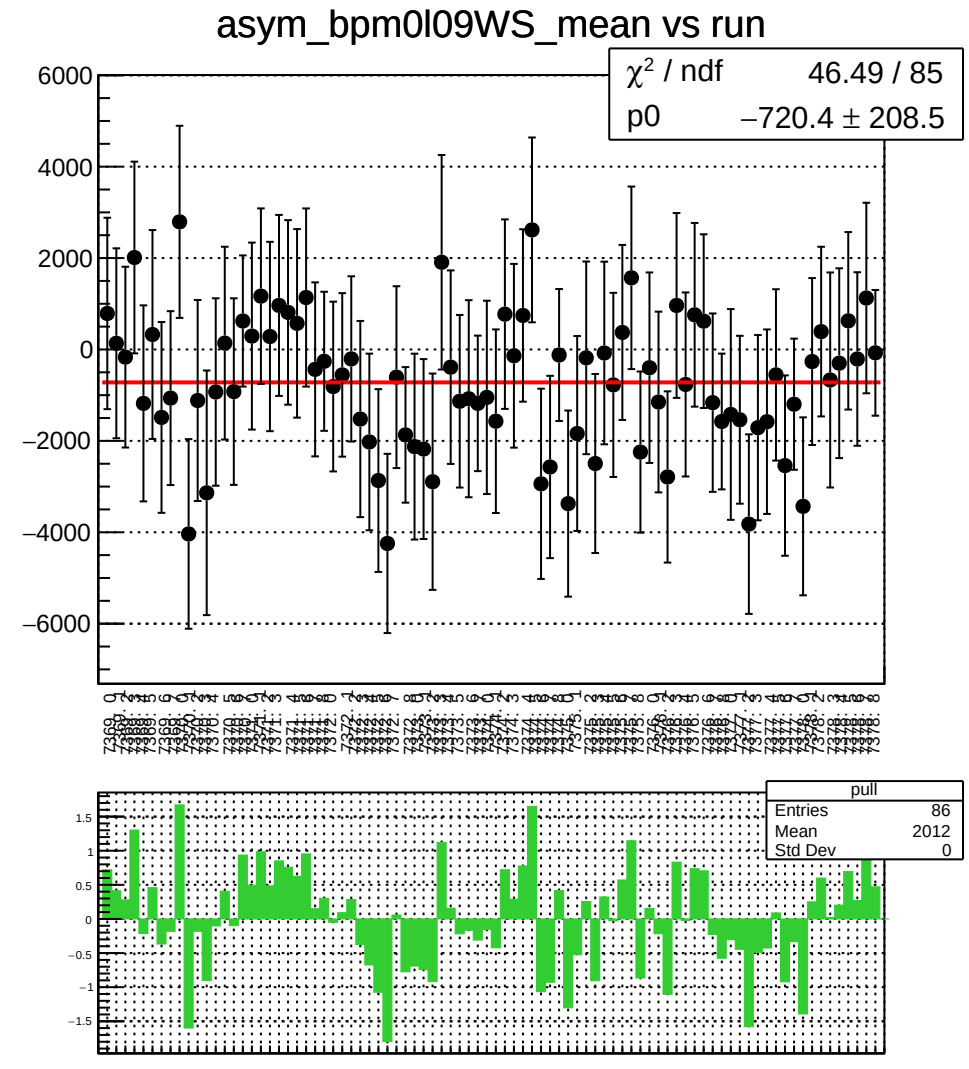

pull1D
Entries 86
Mean 0.001041
Std Dev 0.7828

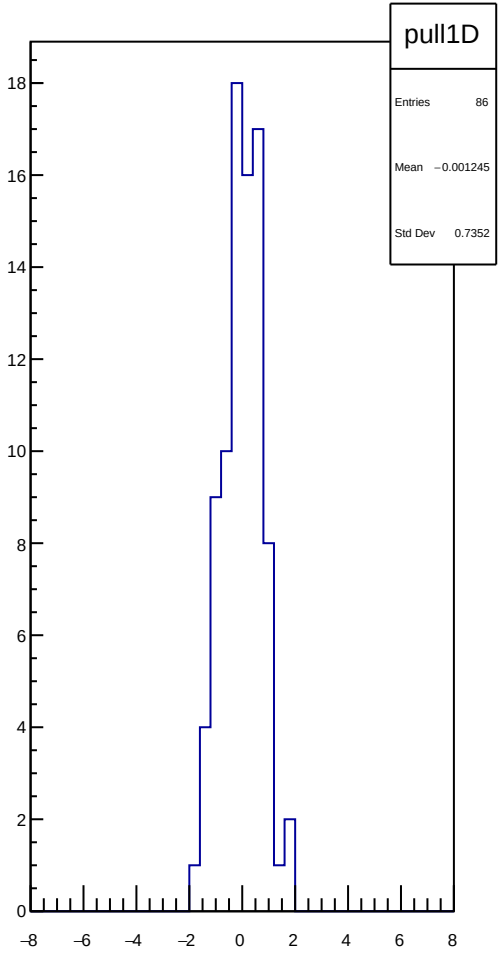

asym_bpm0l07WS_rms vs run
χ² / ndf 5937 / 85
p0 187.4 ± 0.1447
240
220
200
180
160

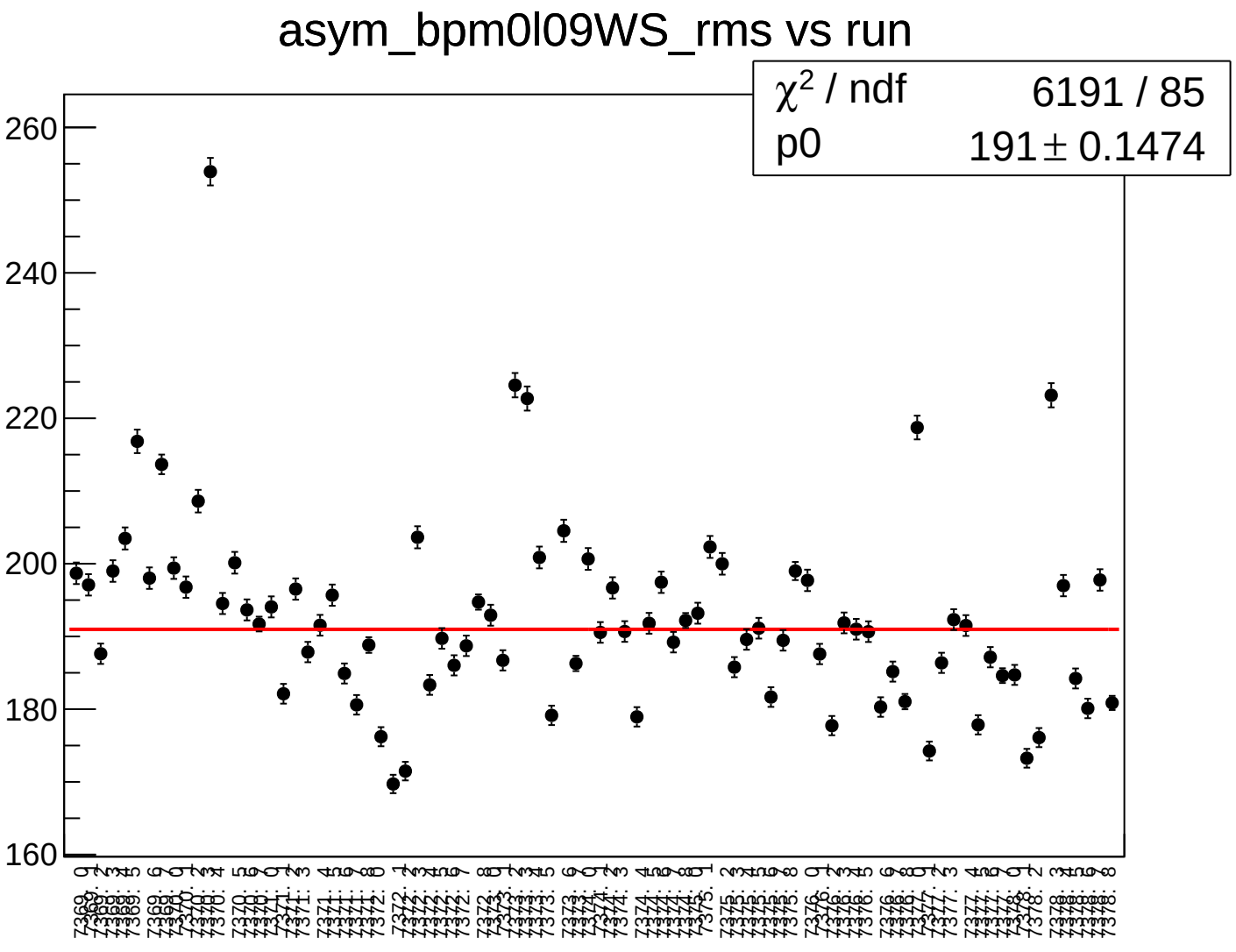

asym_bpm0l08WS_mean vs run
χ² / ndf 46.45 / 85
p0 −791.3 ± 200.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 341.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

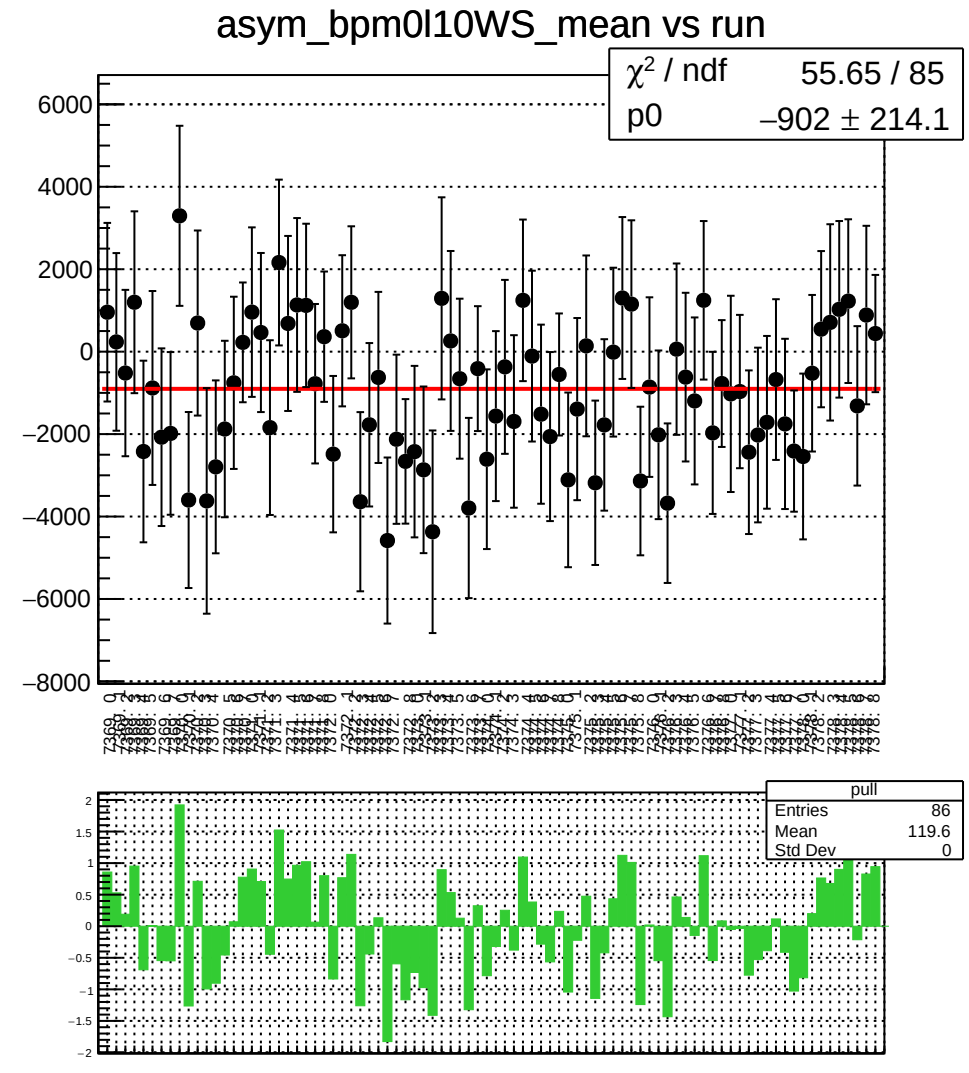

pull1D
Entries 86
Mean −0.006729
Std Dev 0.7349
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

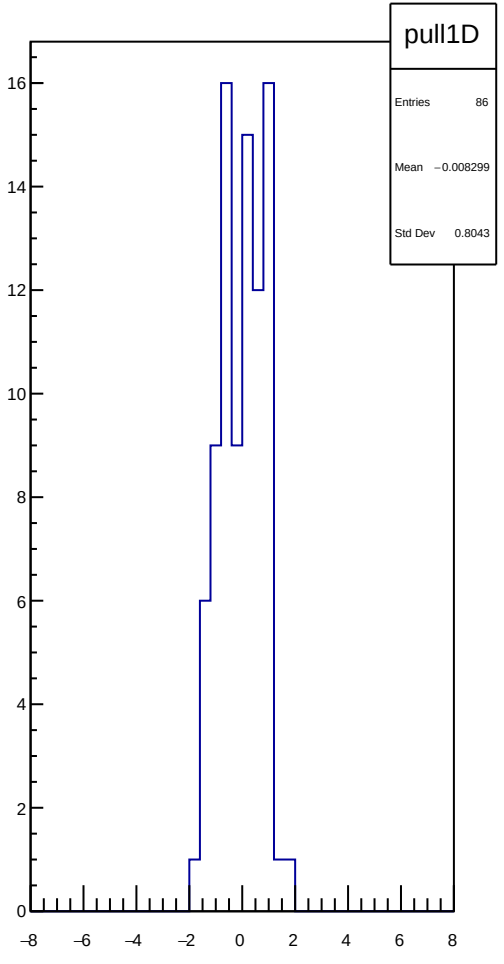

asym_bpm0l08WS_rms vs run
χ² / ndf 6162 / 85
p0 183.6 ± 0.1417
240
220
200
180
160

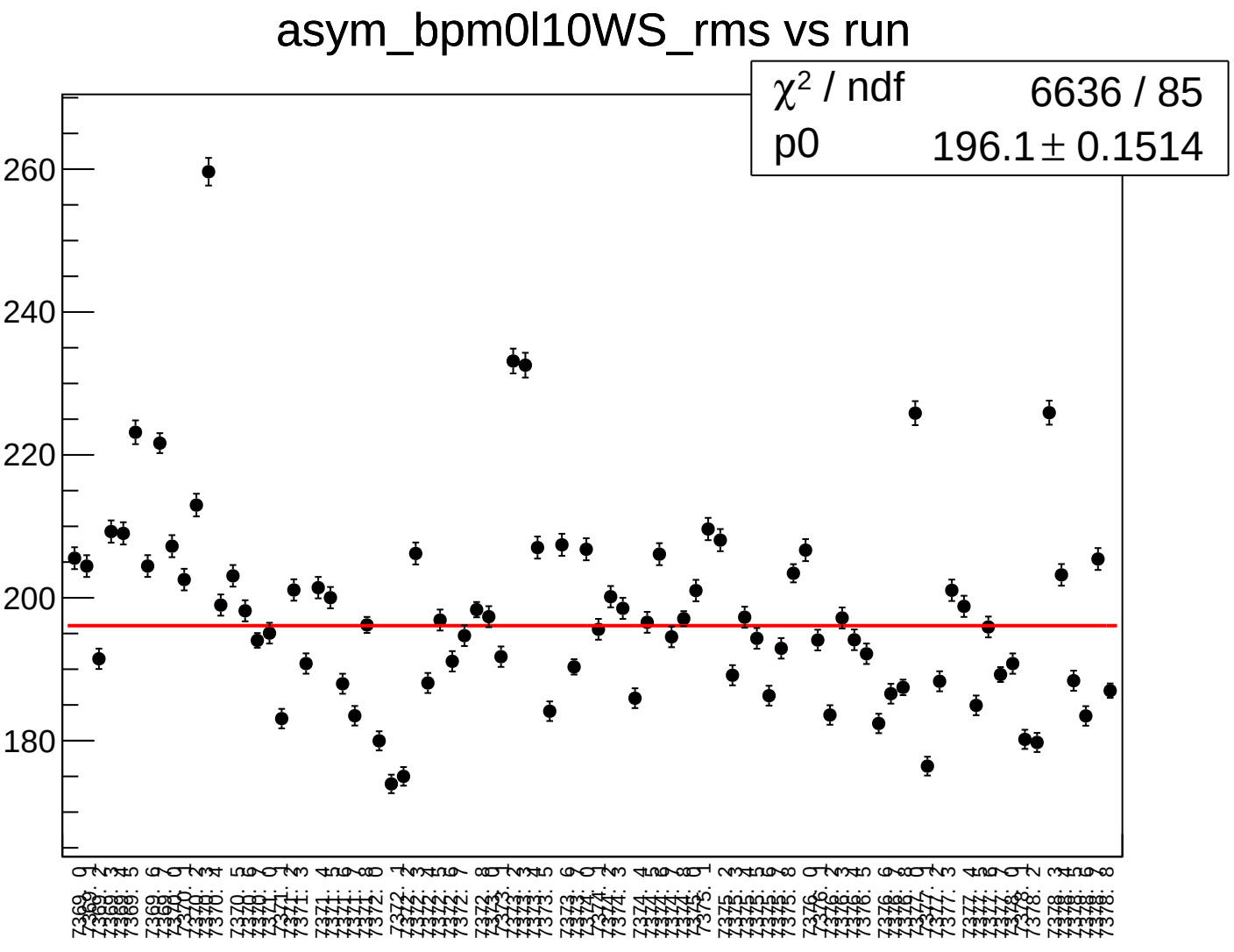

asym_bpm0l09WS_mean vs run
χ² / ndf 46.49 / 85
p0 −720.4 ± 208.5
pull
Entries 86
Mean 2012
Std Dev 0

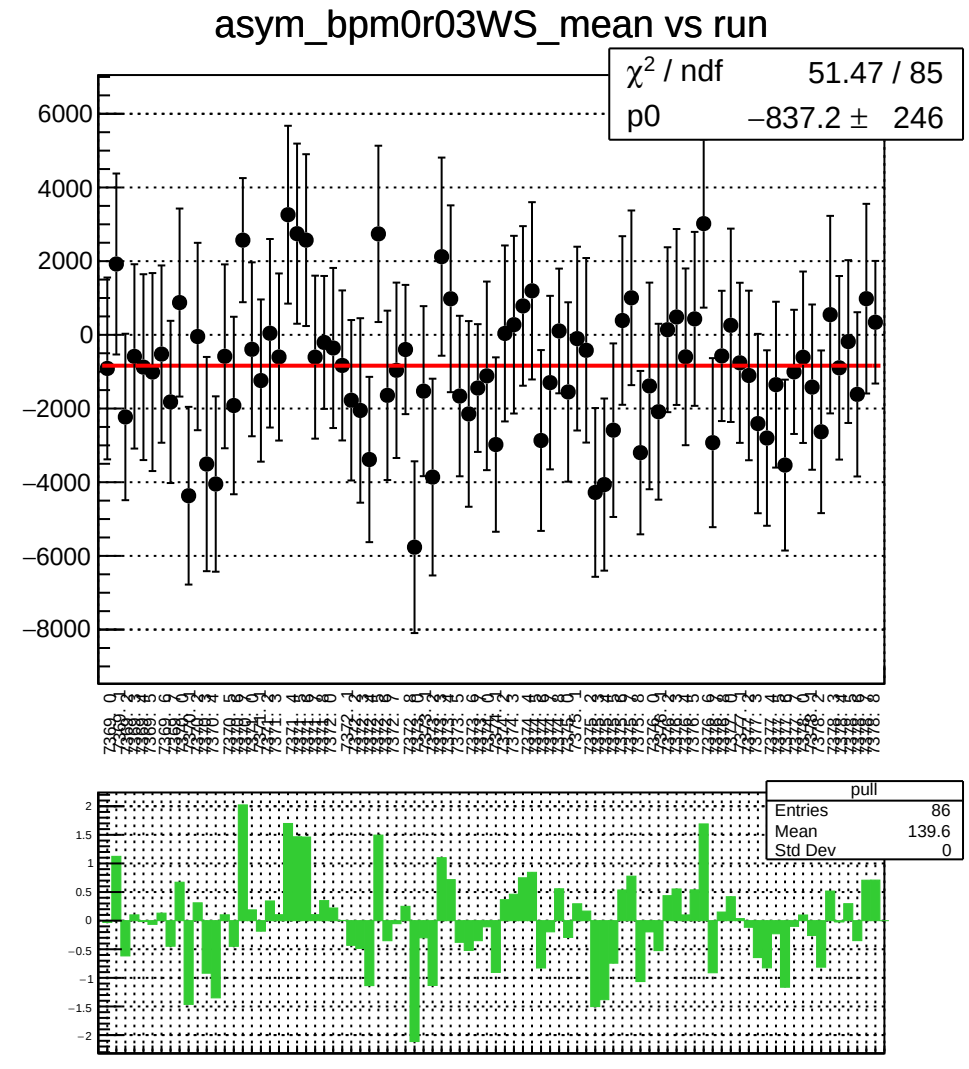

pull1D
Entries 86
Mean −0.001245
Std Dev 0.7352

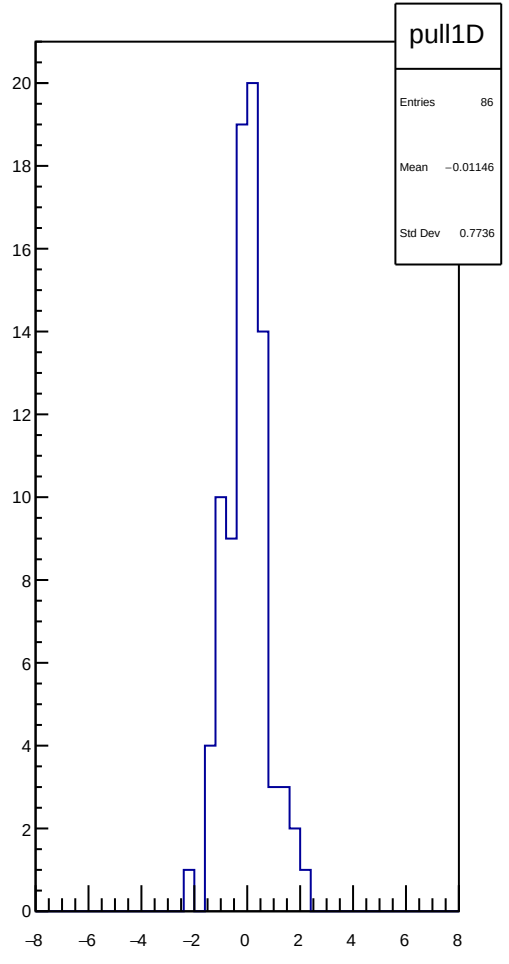

asym_bpm0l09WS_rms vs run
χ² / ndf 6191 / 85
p0 191 ± 0.1474
260
240
220
200
180
160

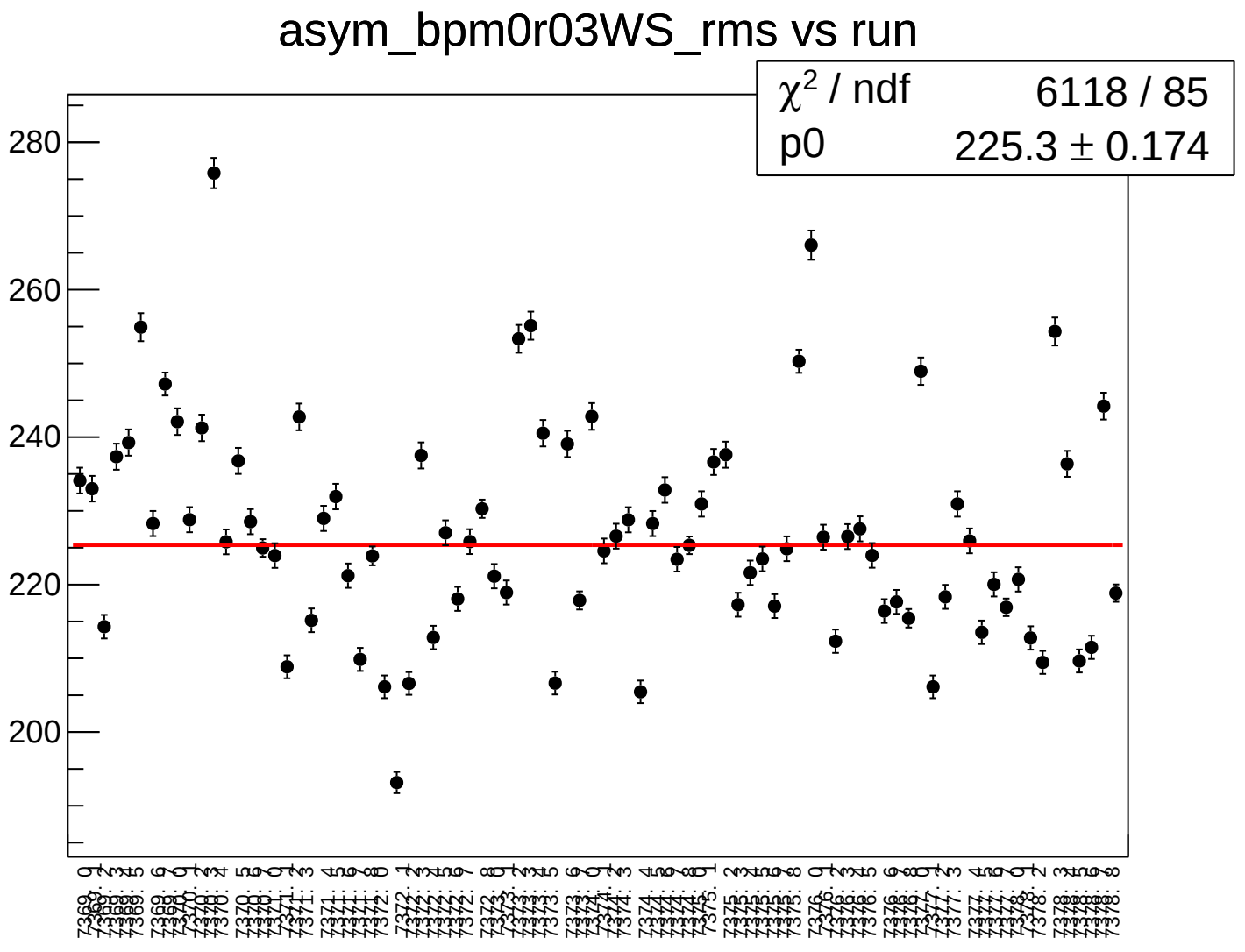

asym_bpm0l10WS_mean vs run
χ² / ndf 55.65 / 85
p0 −902 ± 214.1
pull
Entries 86
Mean 119.6
Std Dev 0

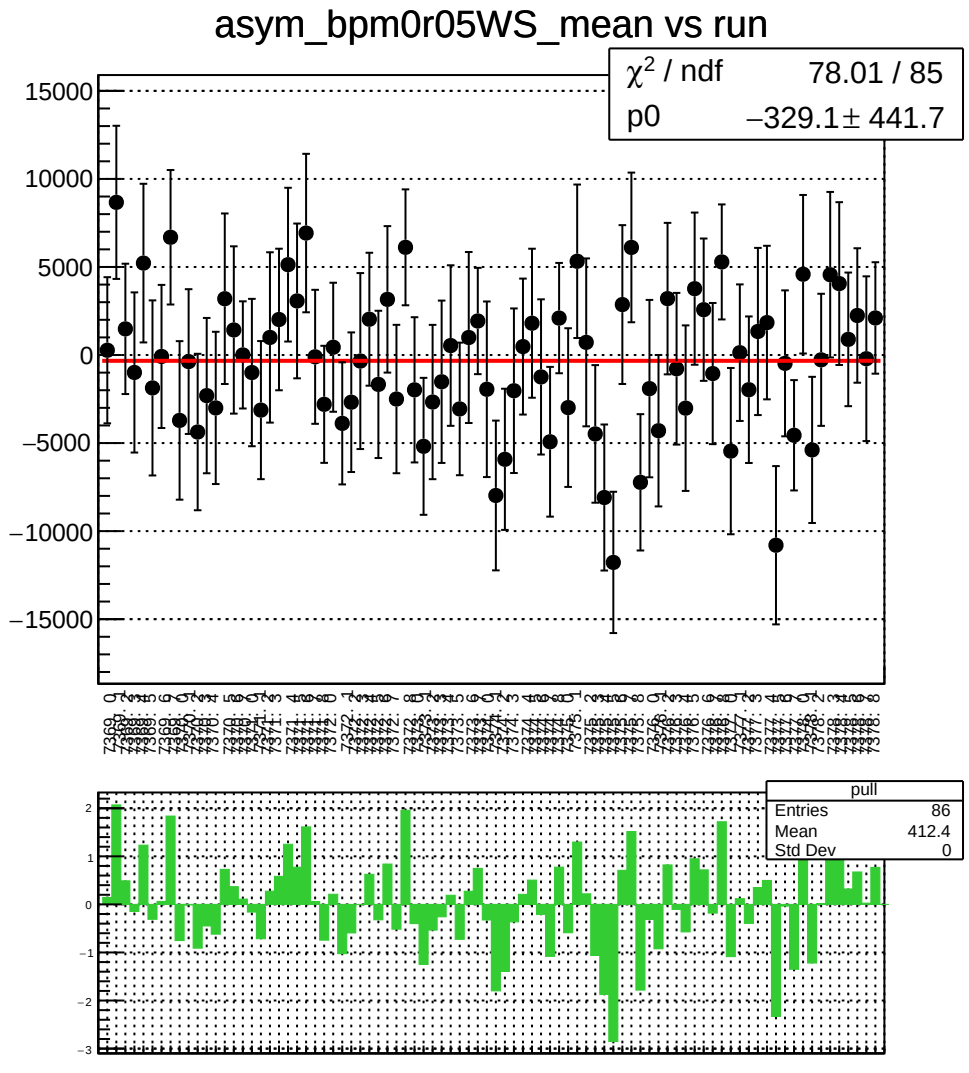

pull1D
Entries 86
Mean −0.008299
Std Dev 0.8043

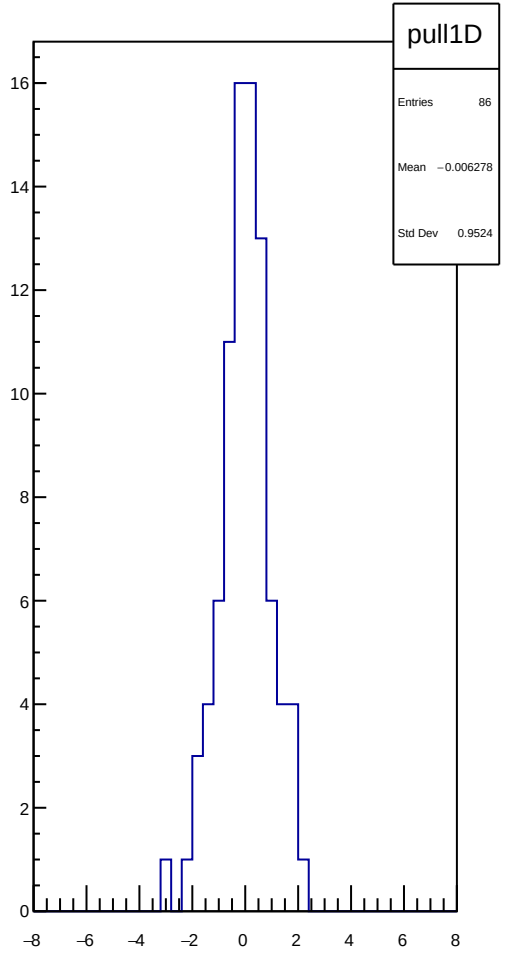

asym_bpm0l10WS_rms vs run
χ² / ndf 6636 / 85
p0 196.1 ± 0.1514
260
240
220
200
180

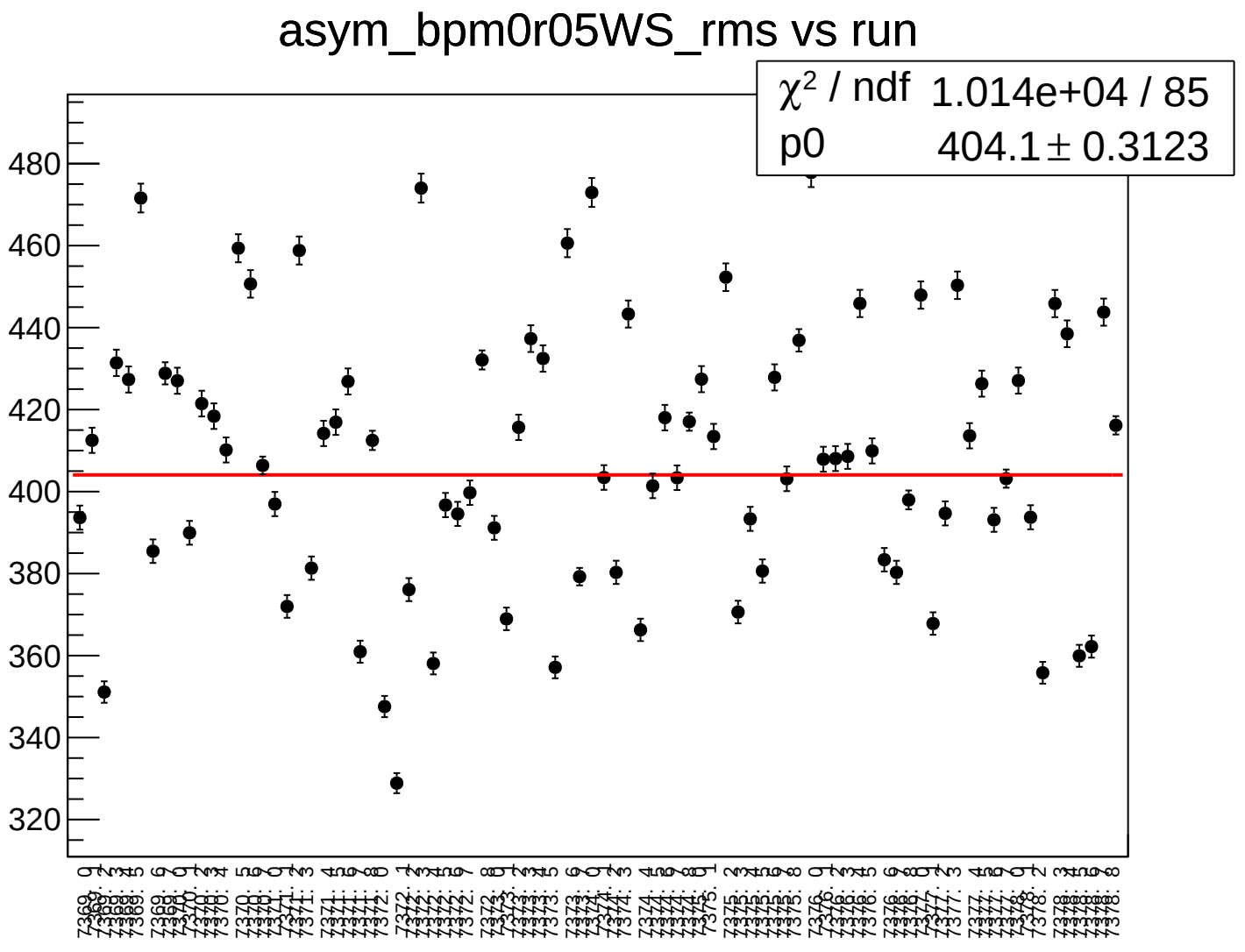

asym_bpm0r03WS_mean vs run
χ² / ndf 51.47 / 85
p0 −837.2 ± 246
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean 139.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

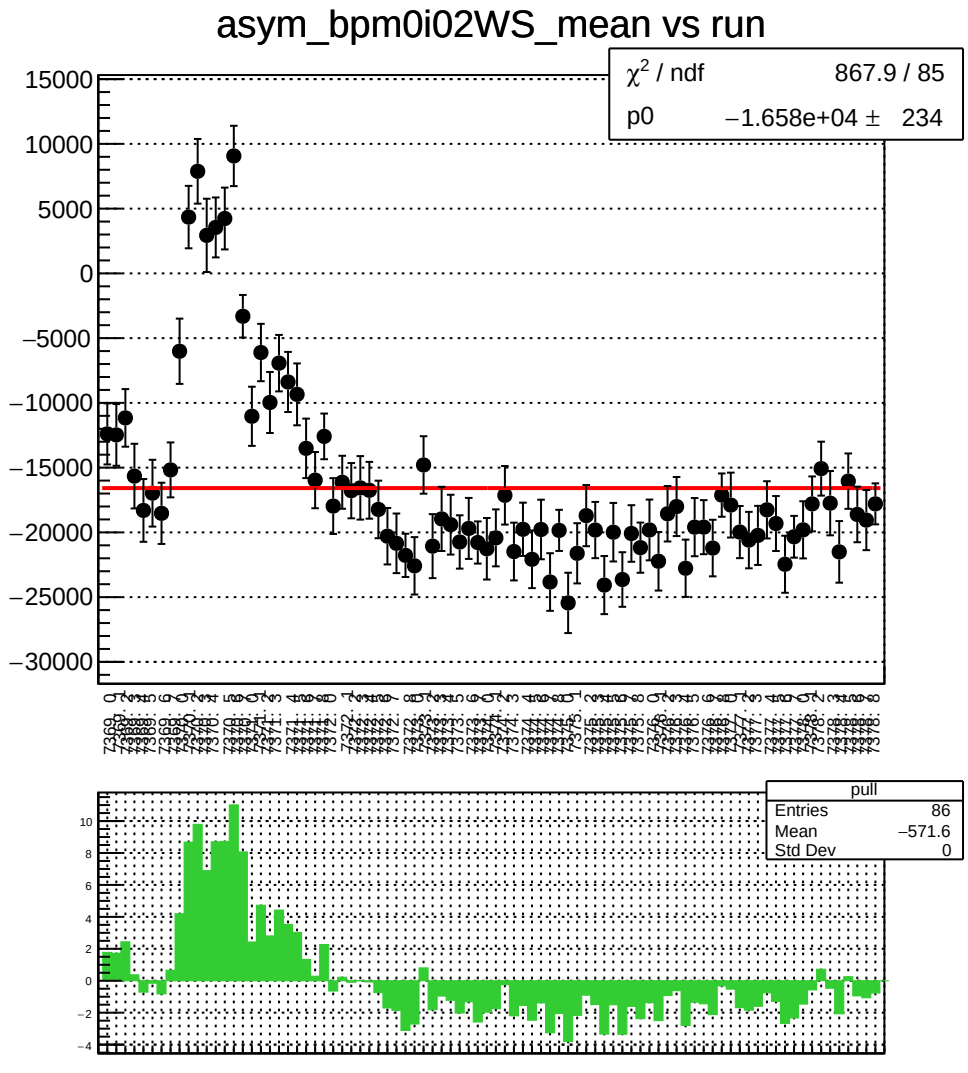

pull1D
Entries 86
Mean −0.01146
Std Dev 0.7736
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

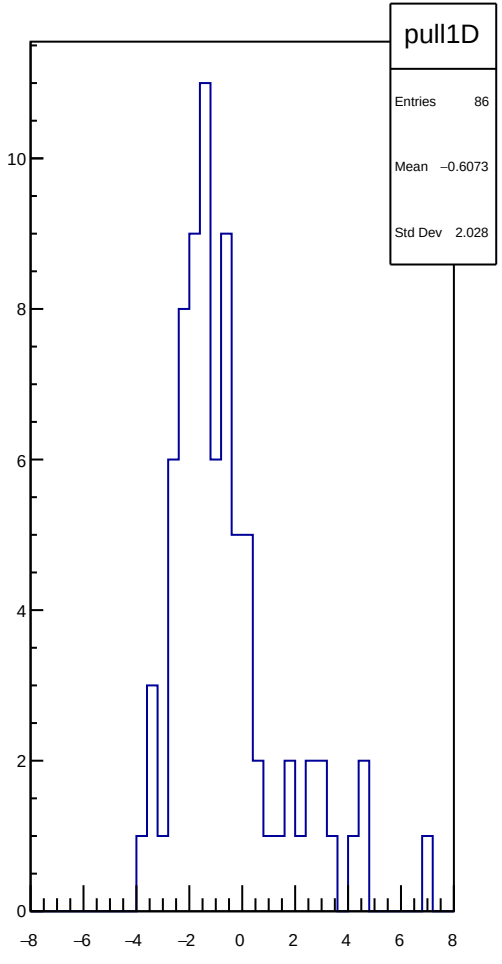

asym_bpm0r03WS_rms vs run
χ^2 / ndf 6118 / 85
p0 225.3 ± 0.174
280
260
240
220
200

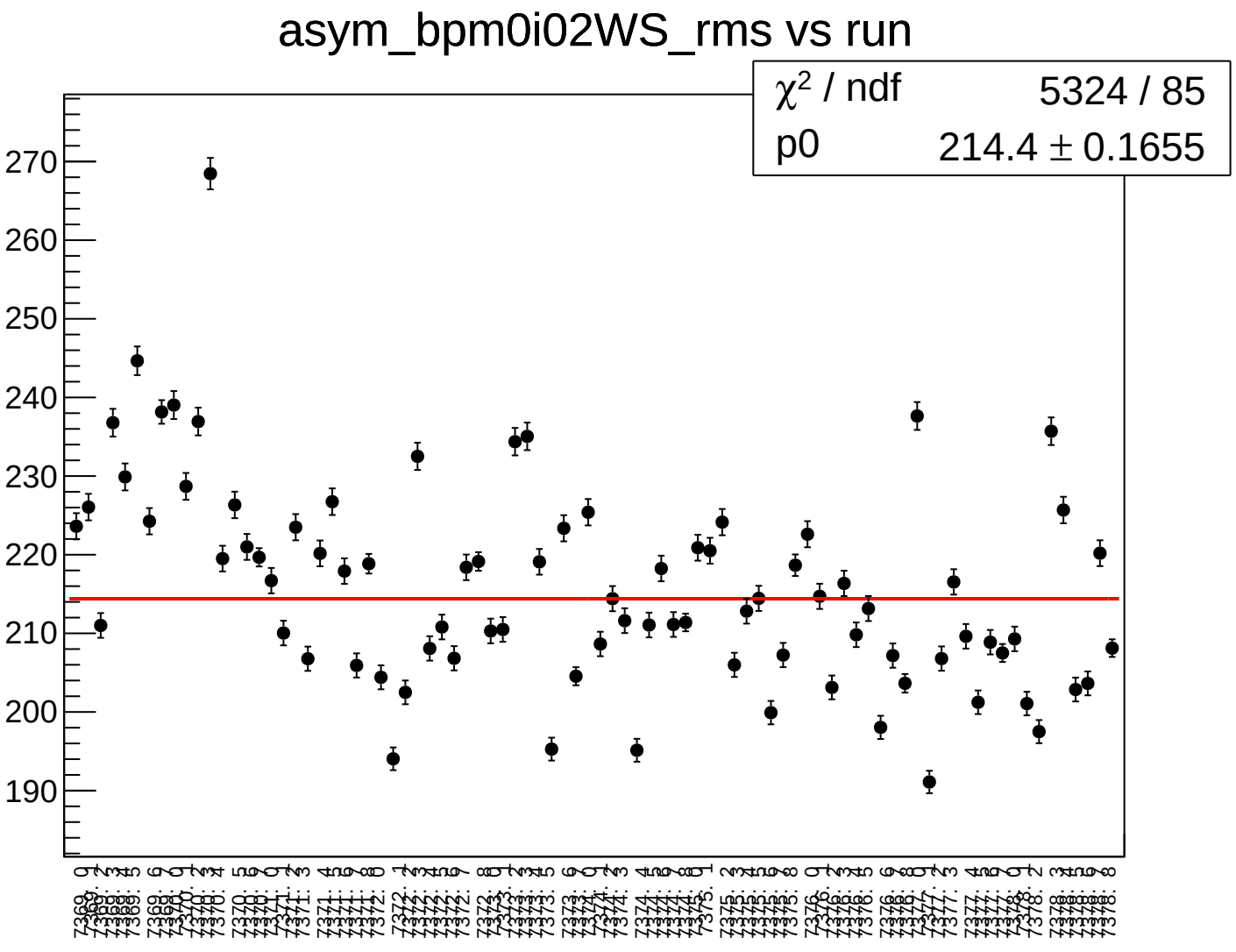

asym_bpm0r05WS_mean vs run
χ² / ndf 78.01 / 85
p0 −329.1± 441.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 412.4
Std Dev 0
2
1
0
−1
−2
−3

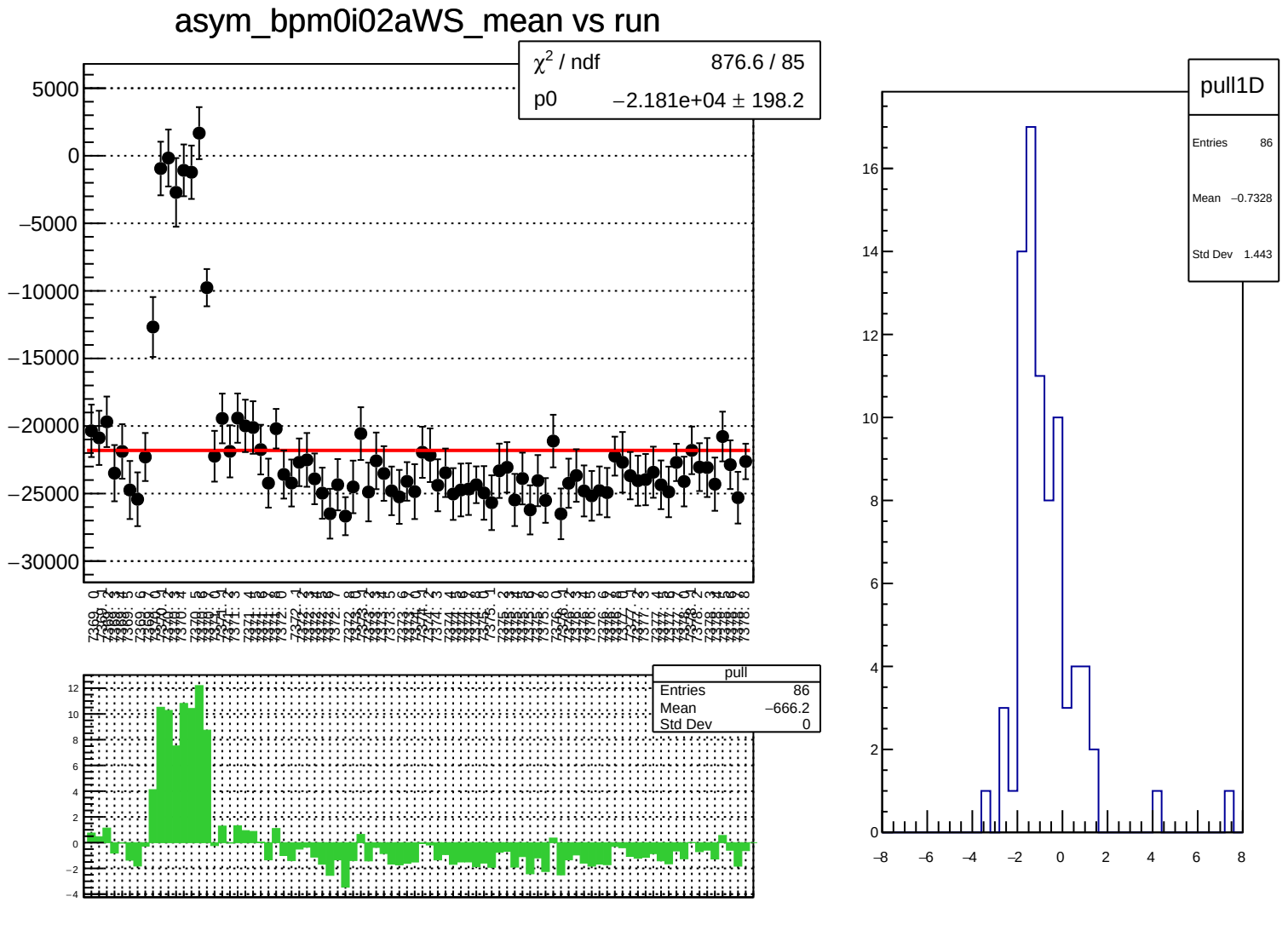

pull1D
Entries 86
Mean −0.006278
Std Dev 0.9524
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

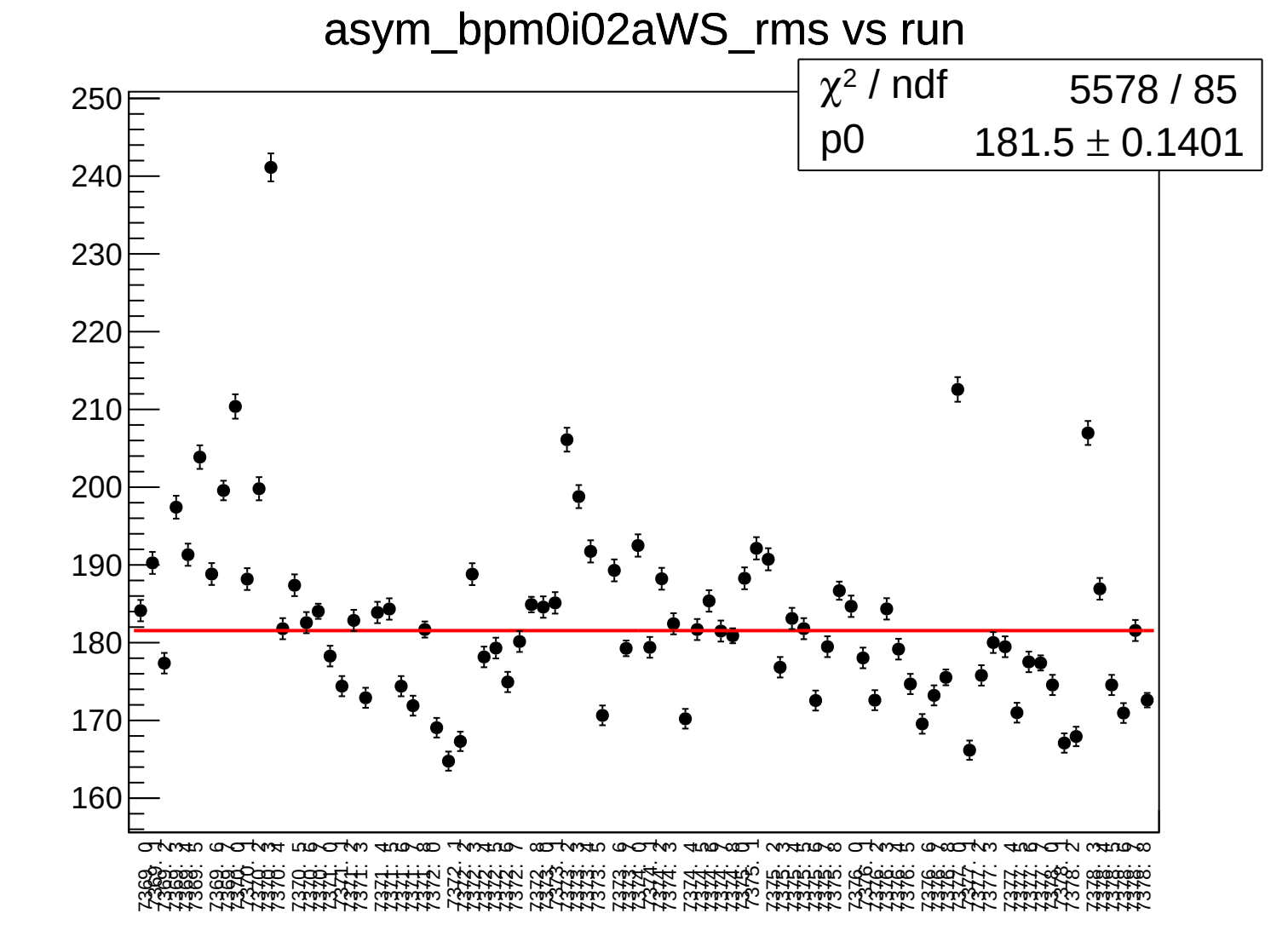

asym_bpm0r05WS_rms vs run
χ² / ndf 1.014e+04 / 85
p0 404.1 ± 0.3123
480
460
440
420
400
380
360
340
320

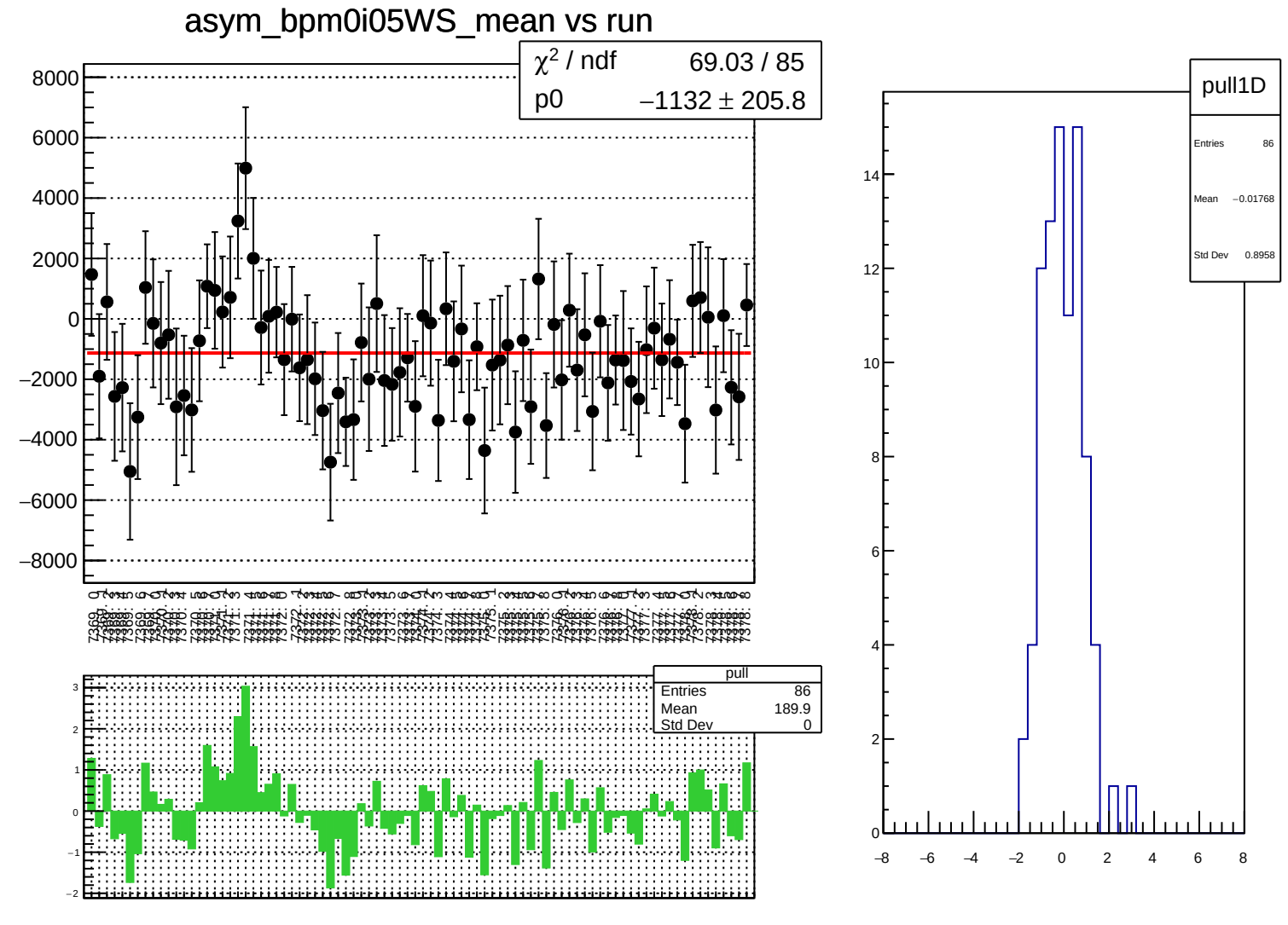

asym_bpm0i02WS_mean vs run
χ² / ndf 867.9 / 85
p0 −1.658e+04 ± 234
pull
Entries 86
Mean −571.6
Std Dev 0

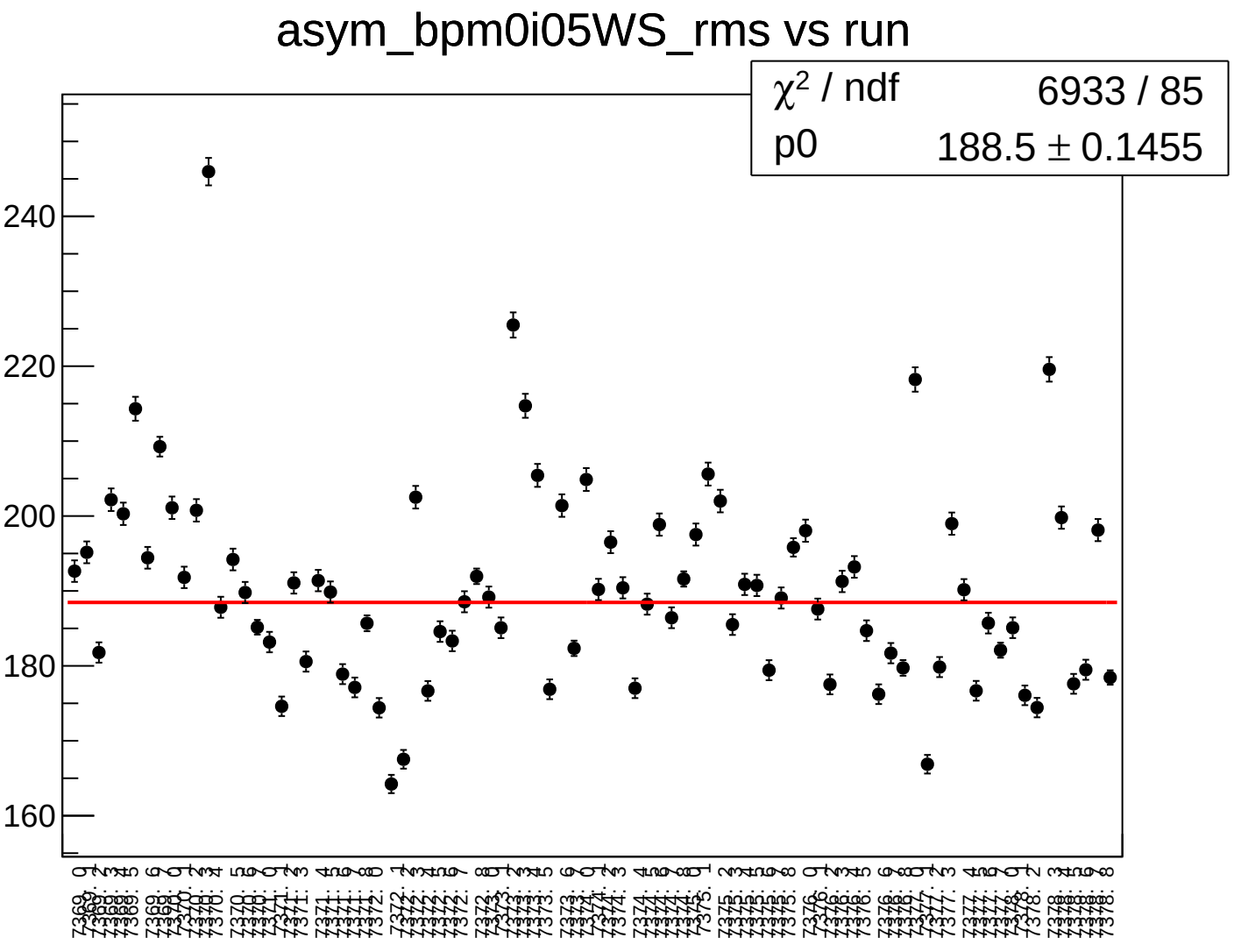

pull1D
Entries 86
Mean −0.6073
Std Dev 2.028

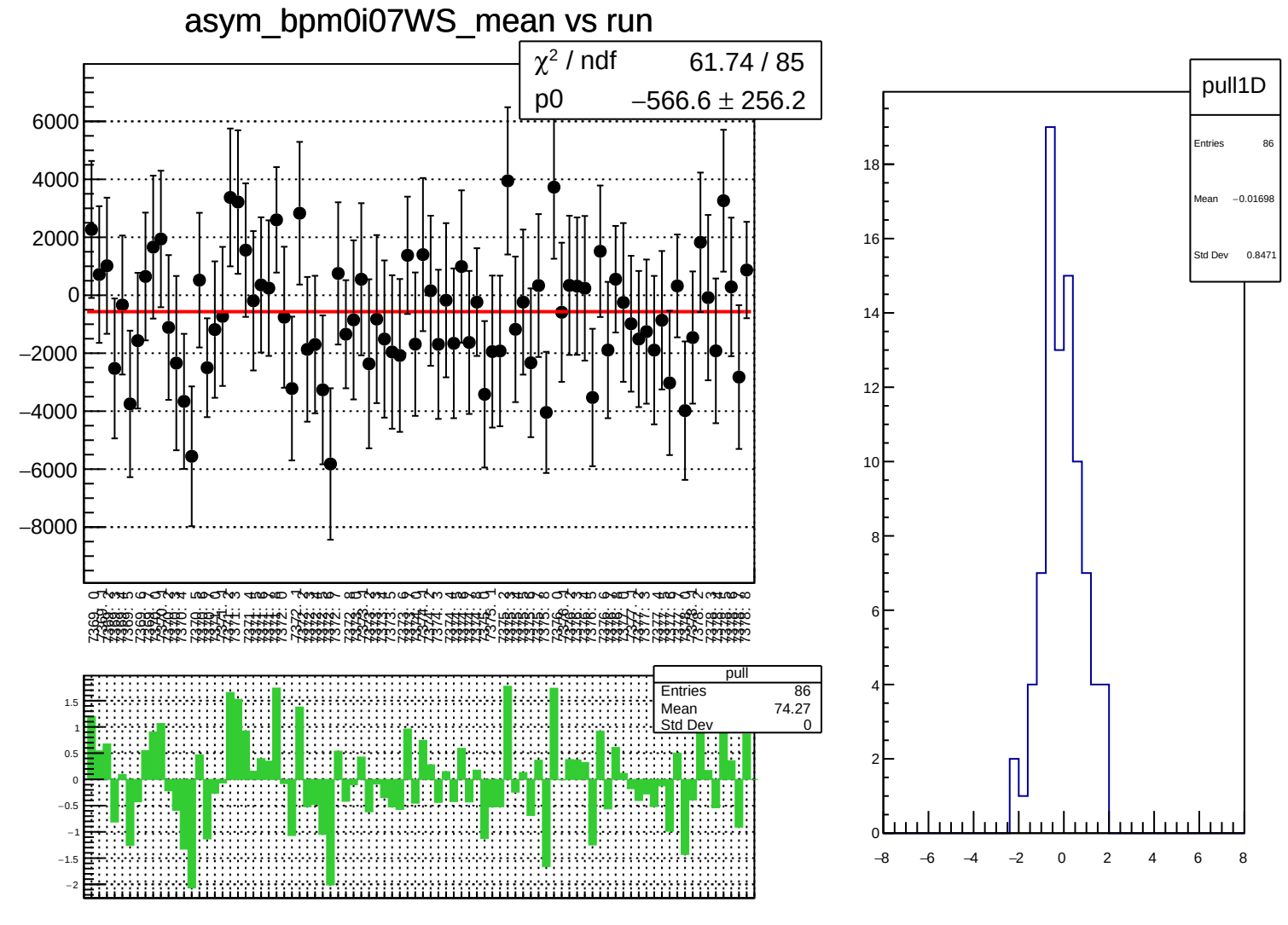

asym_bpm0i02WS_rms vs run
χ² / ndf 5324 / 85
p0 214.4 ± 0.1655
270
260
250
240
230
220
210
200
190

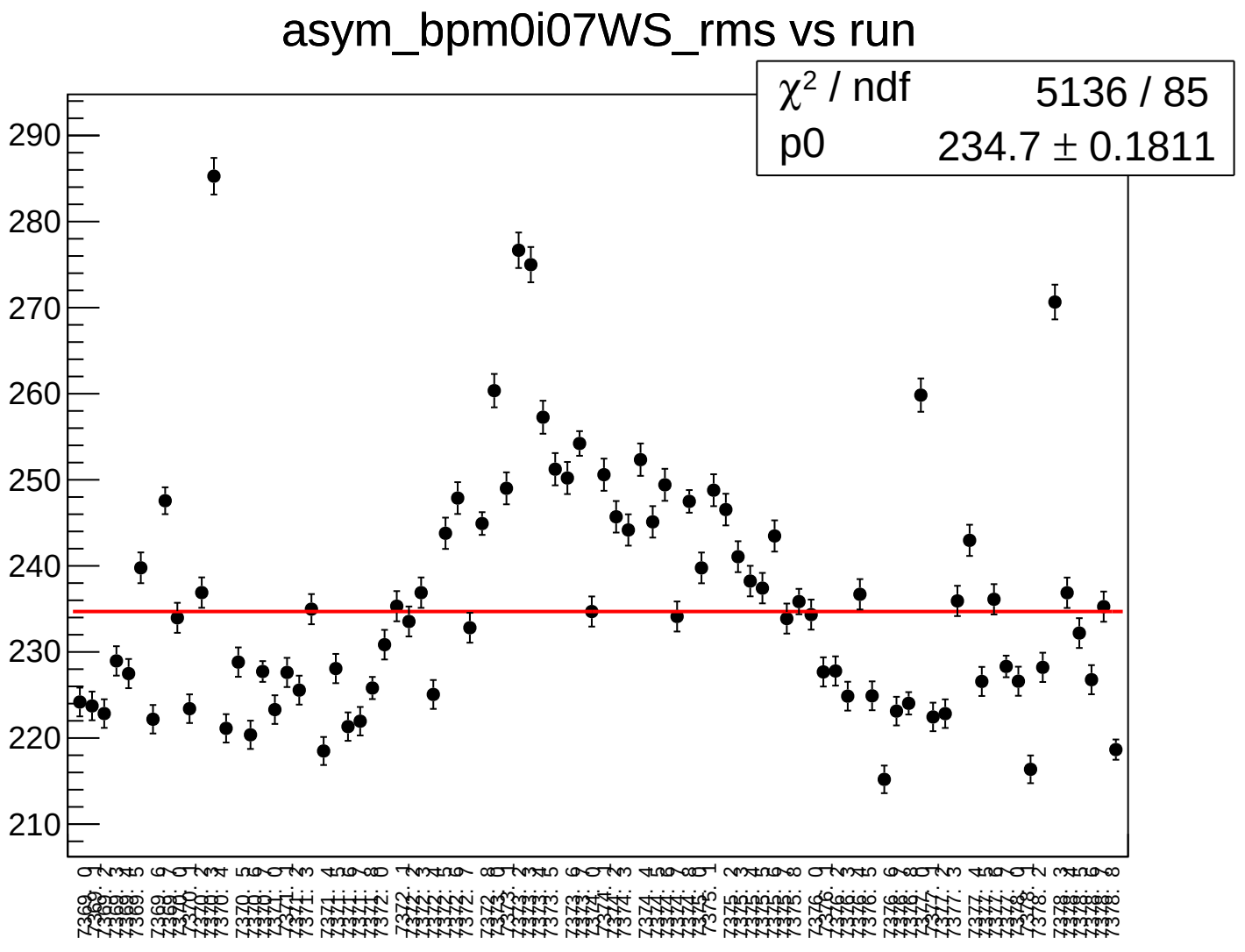

asym_bpm0i02aWS_mean vs run
χ² / ndf 876.6 / 85
p0 −2.181e+04 ± 198.2
pull
Entries 86
Mean −666.2
Std Dev 0
pull1D
Entries 86
Mean −0.7328
Std Dev 1.443

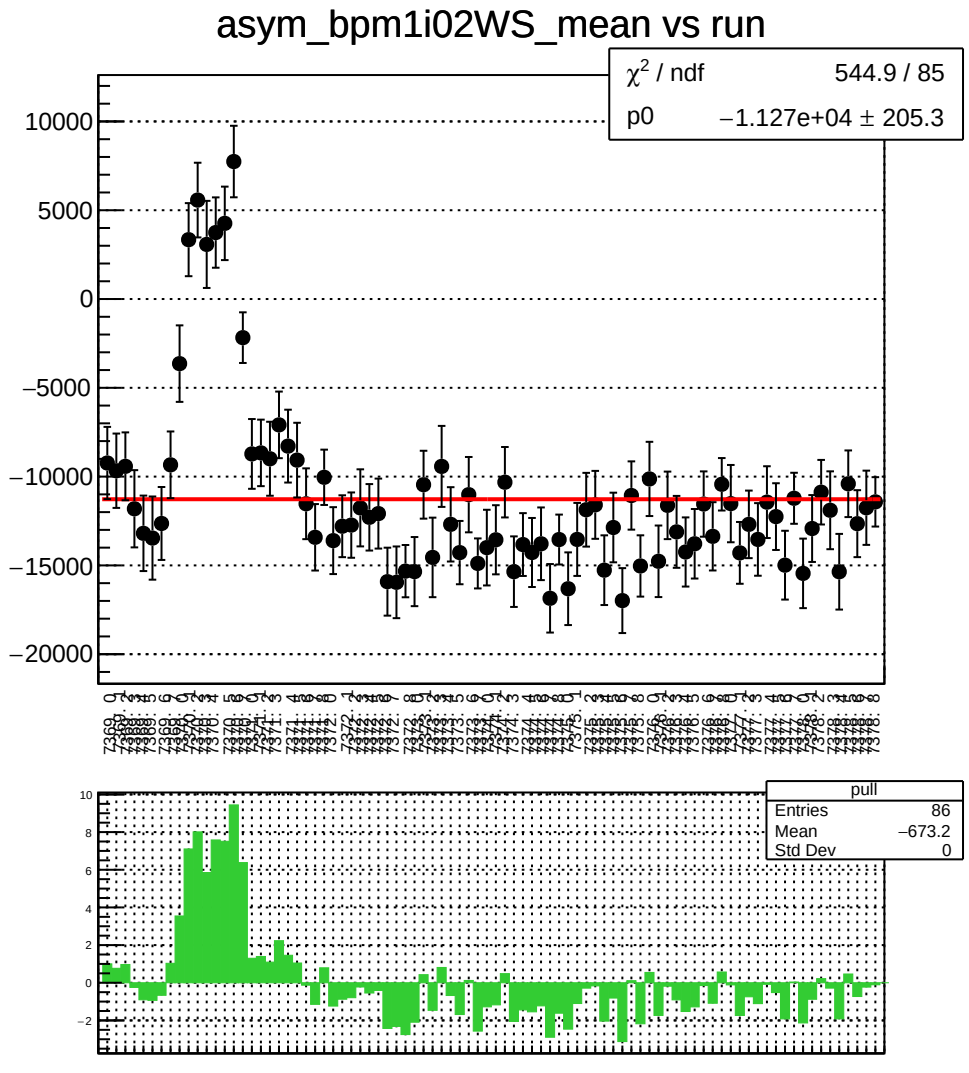

asym_bpm0i02aWS_rms vs run
χ² / ndf 5578 / 85
p0 181.5 ± 0.1401
250
240
230
220
210
200
190
180
170
160

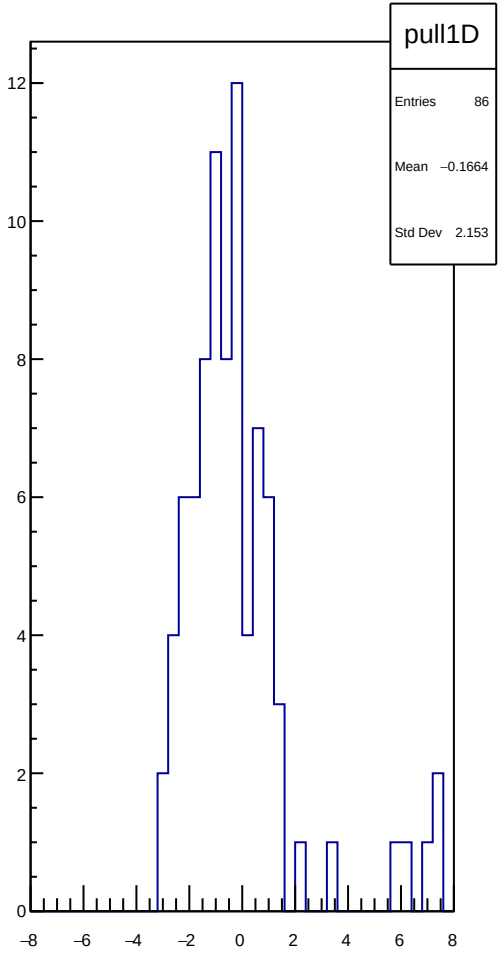

asym_bpm0i05WS_mean vs run
χ^2 / ndf 69.03 / 85
p0 −1132 ± 205.8
pull
Entries 86
Mean 189.9
Std Dev 0
pull1D
Entries 86
Mean −0.01768
Std Dev 0.8958

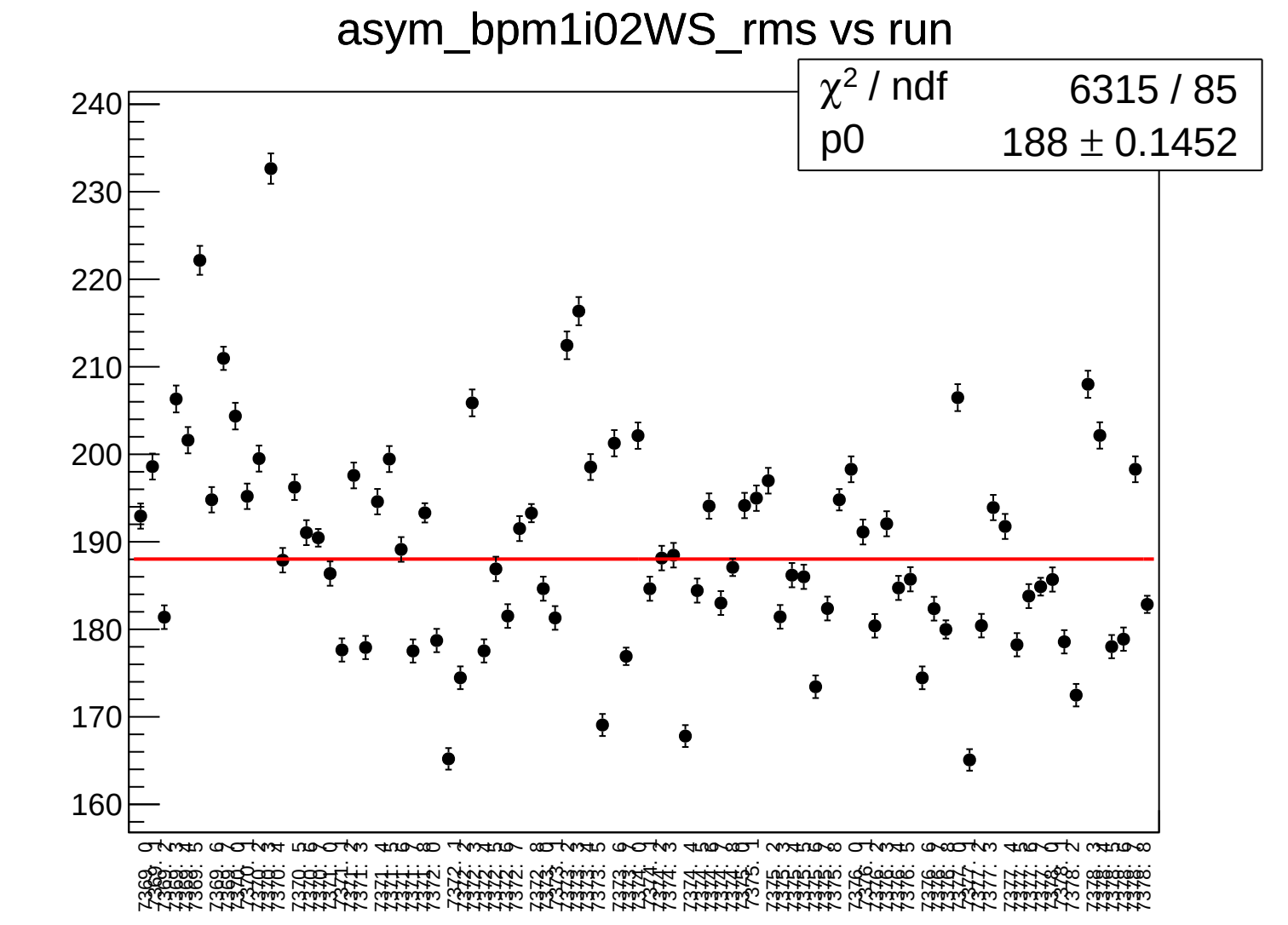

asym_bpm0i05WS_rms vs run
χ² / ndf 6933 / 85
p0 188.5 ± 0.1455
240
220
200
180
160

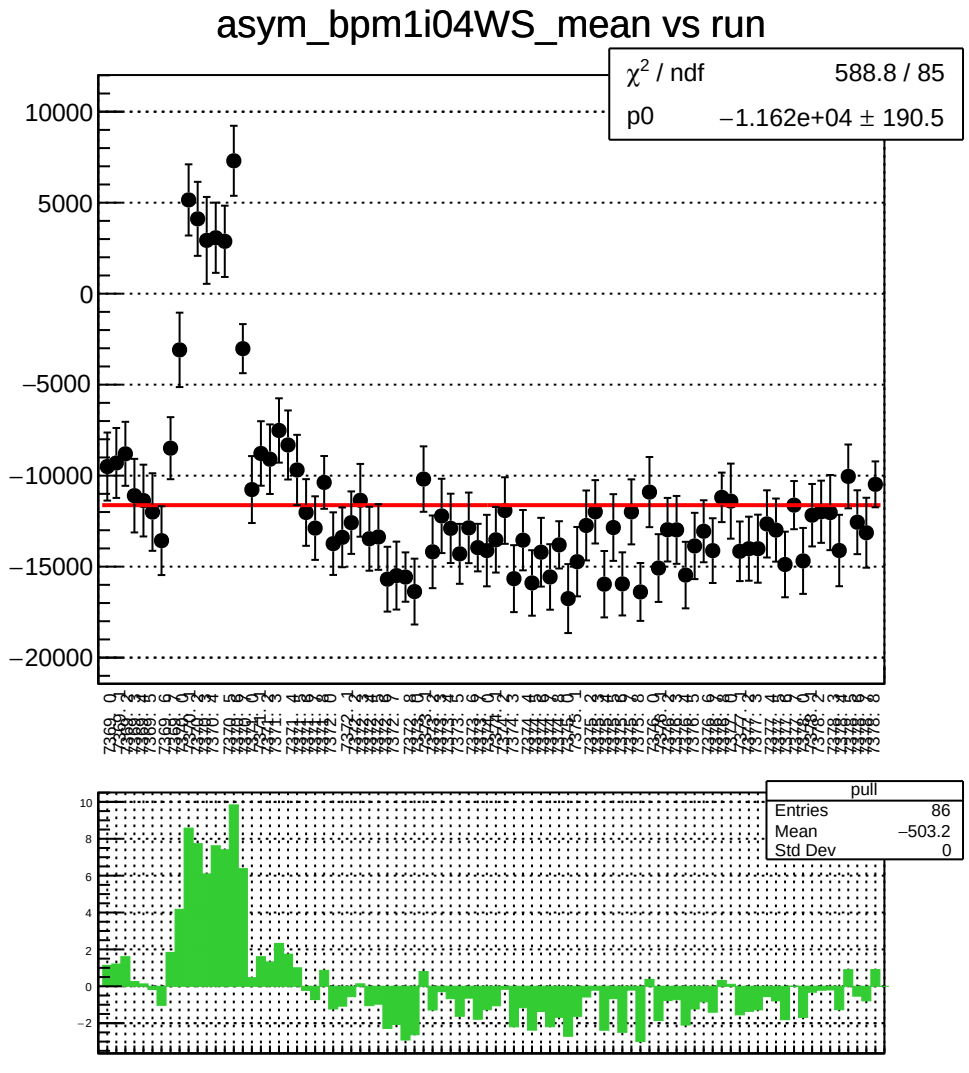

asym_bpm0i07WS_mean vs run
χ² / ndf 61.74 / 85
p0 −566.6 ± 256.2
pull
Entries 86
Mean 74.27
Std Dev 0
pull1D
Entries 86
Mean −0.01698
Std Dev 0.8471

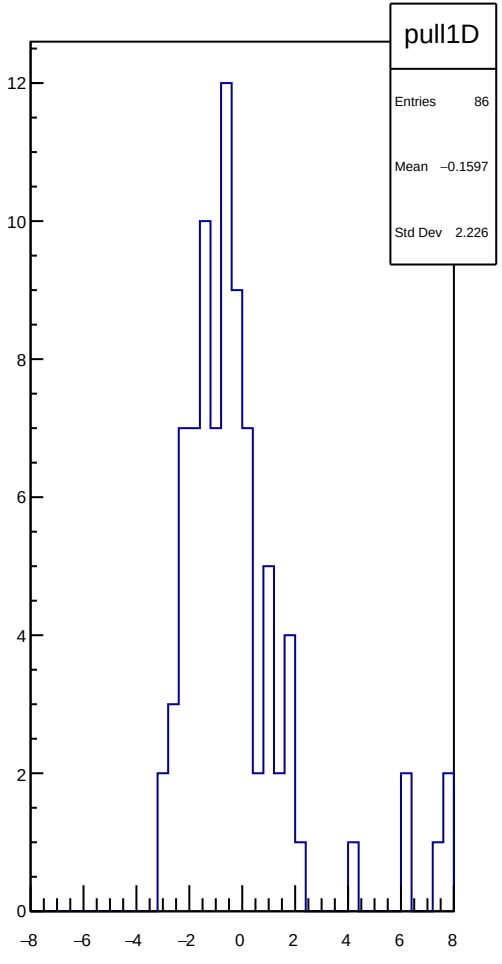

asym_bpm0i07WS_rms vs run
χ² / ndf 5136 / 85
p0 234.7 ± 0.1811
290
280
270
260
250
240
230
220
210

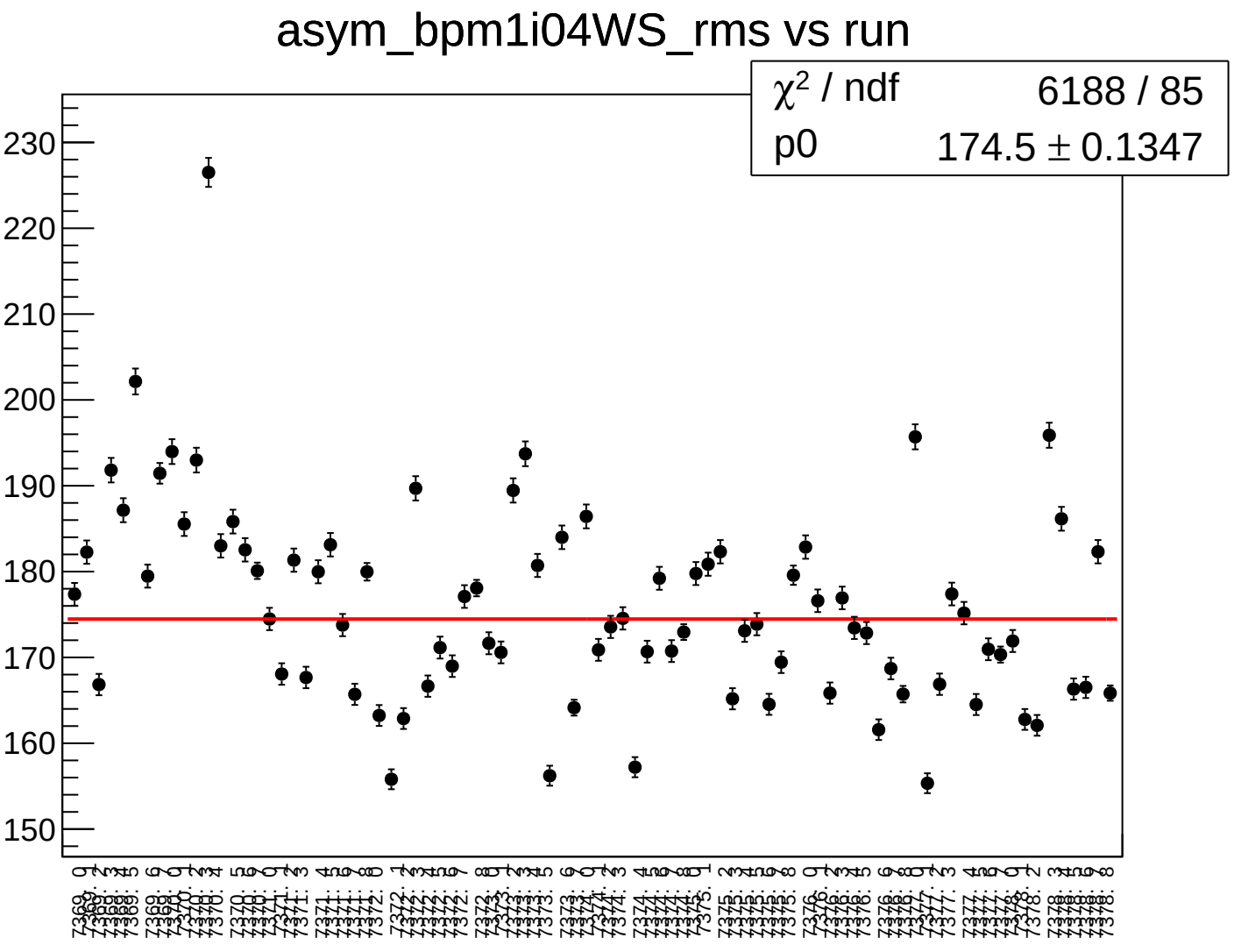

asym_bpm1i02WS_mean vs run
χ² / ndf 544.9 / 85
p0 −1.127e+04 ± 205.3
pull
Entries 86
Mean −673.2
Std Dev 0

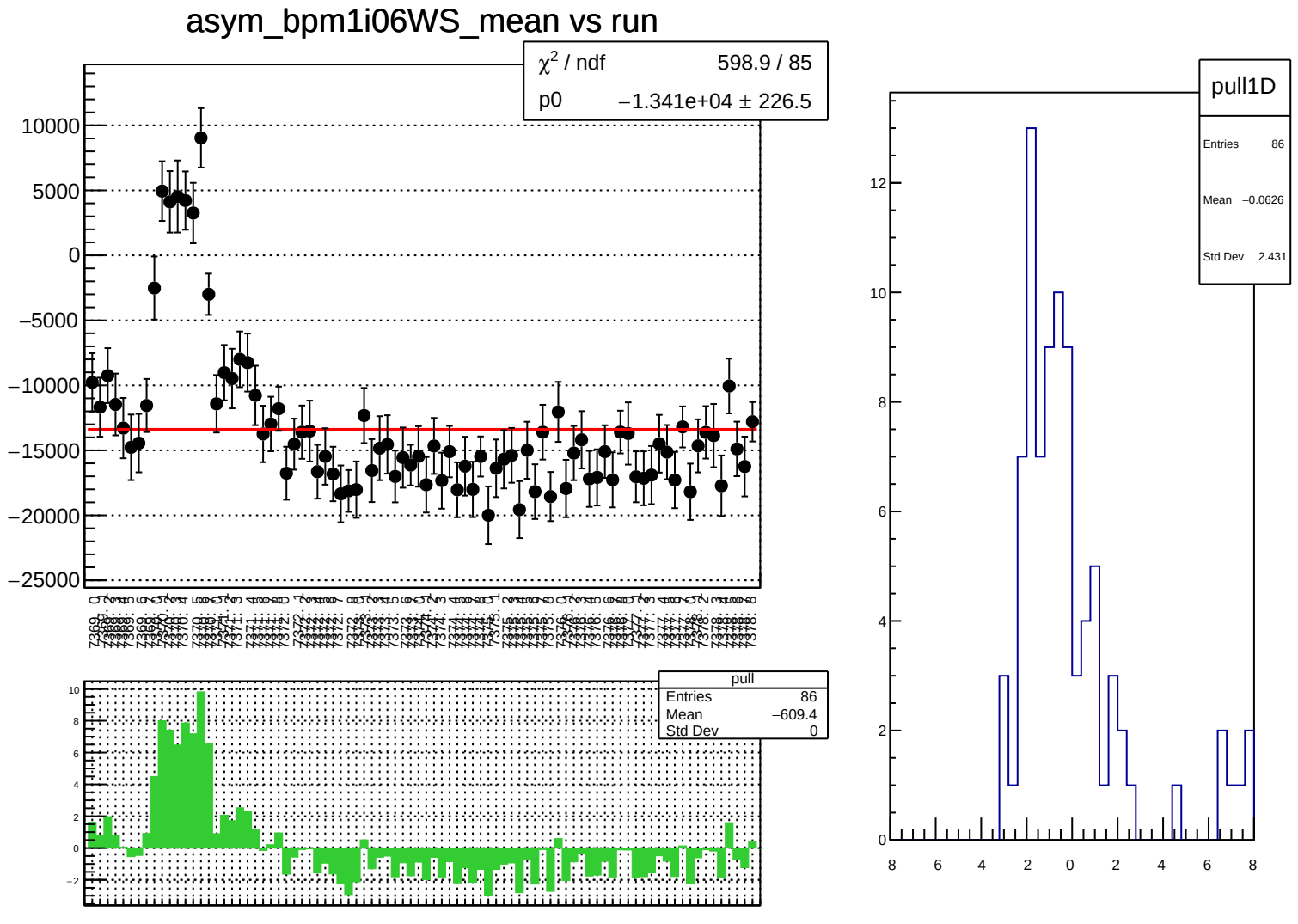

pull1D
Entries 86
Mean −0.1664
Std Dev 2.153

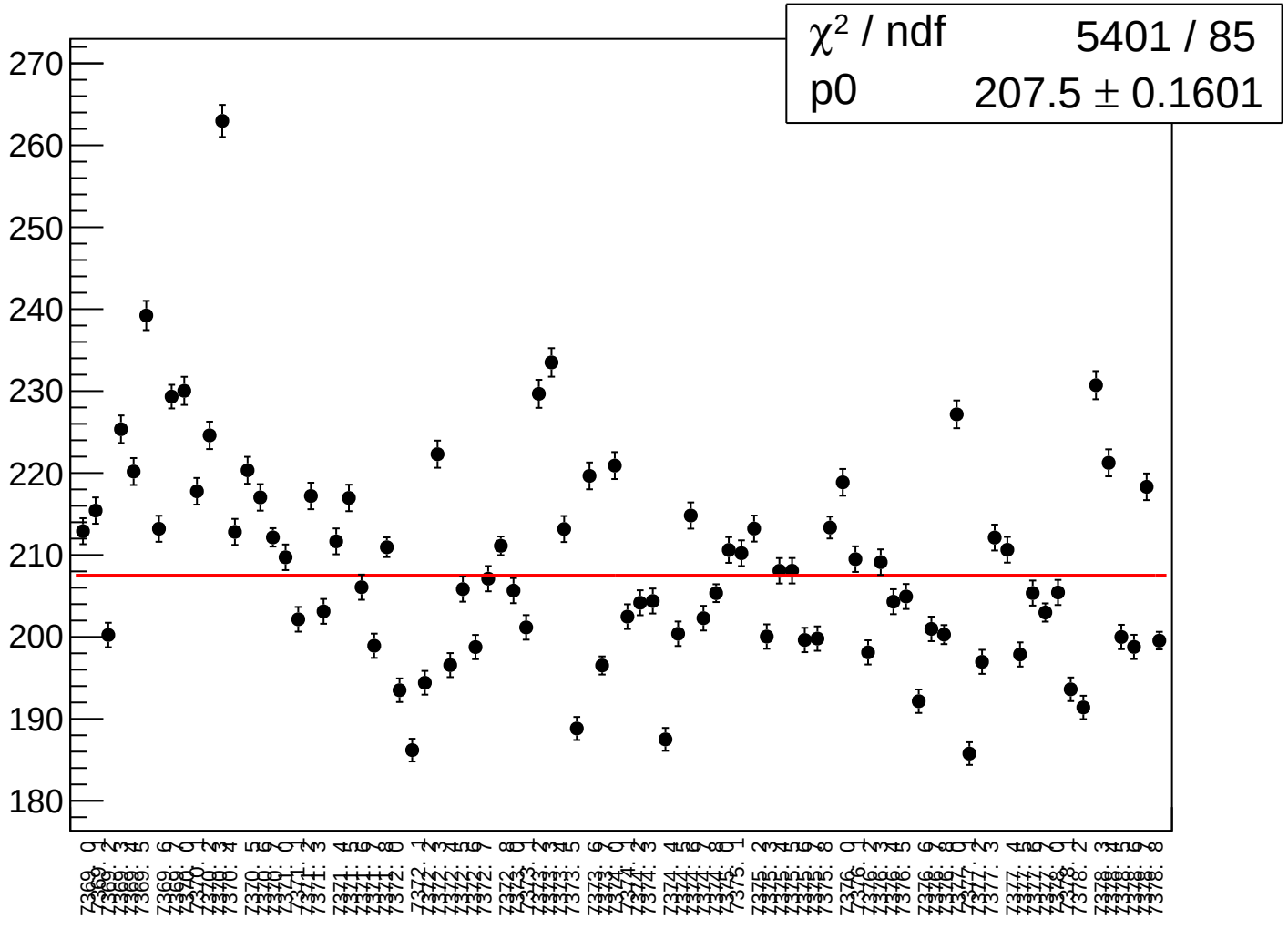

asym_bpm1i02WS_rms vs run
χ^2 / ndf 6315 / 85
p0 188 ± 0.1452
240
230
220
210
200
190
180
170
160

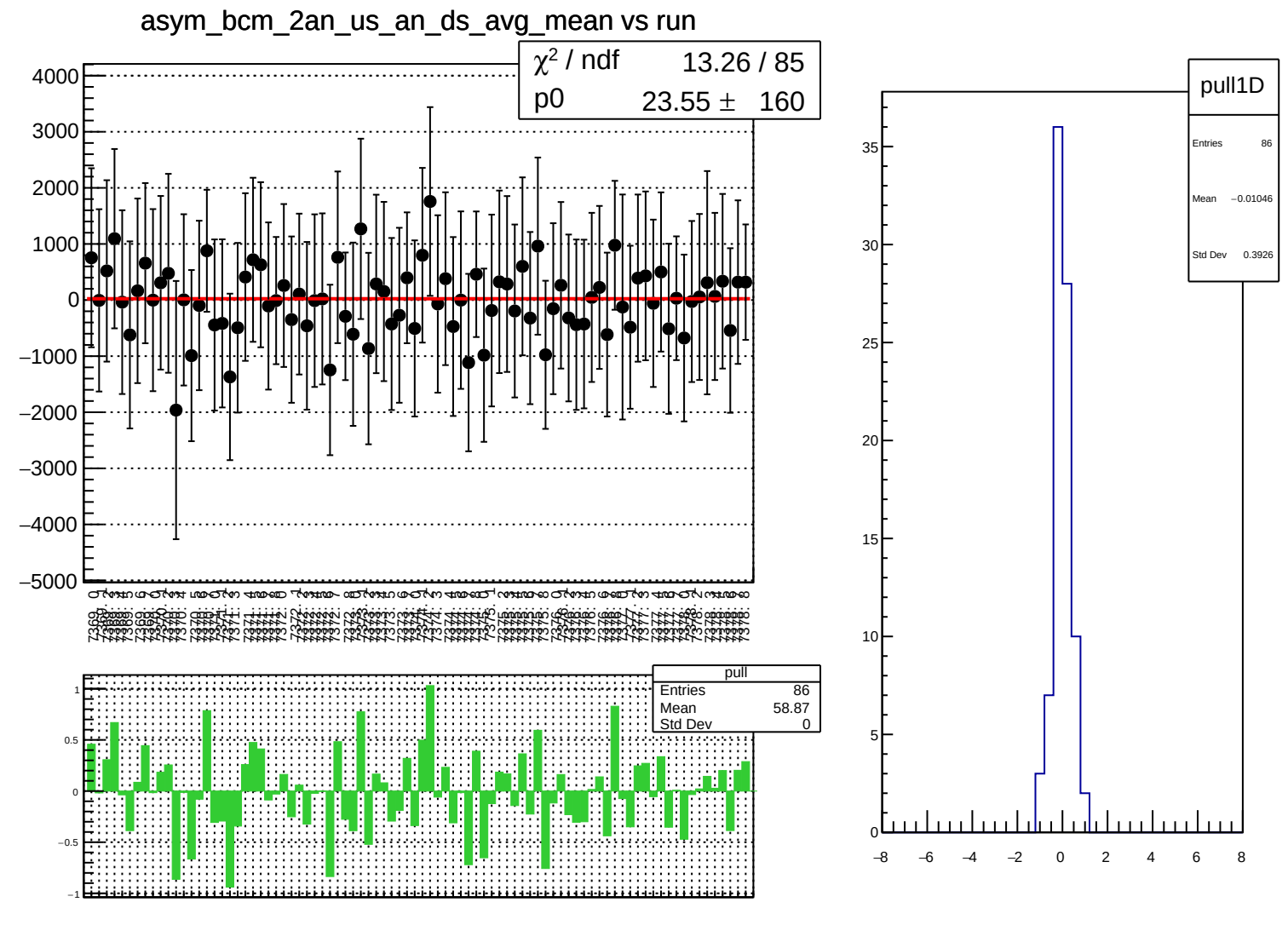

asym_bpm1i04WS_mean vs run
χ² / ndf 588.8 / 85
p0 −1.162e+04 ± 190.5
pull
Entries 86
Mean −503.2
Std Dev 0

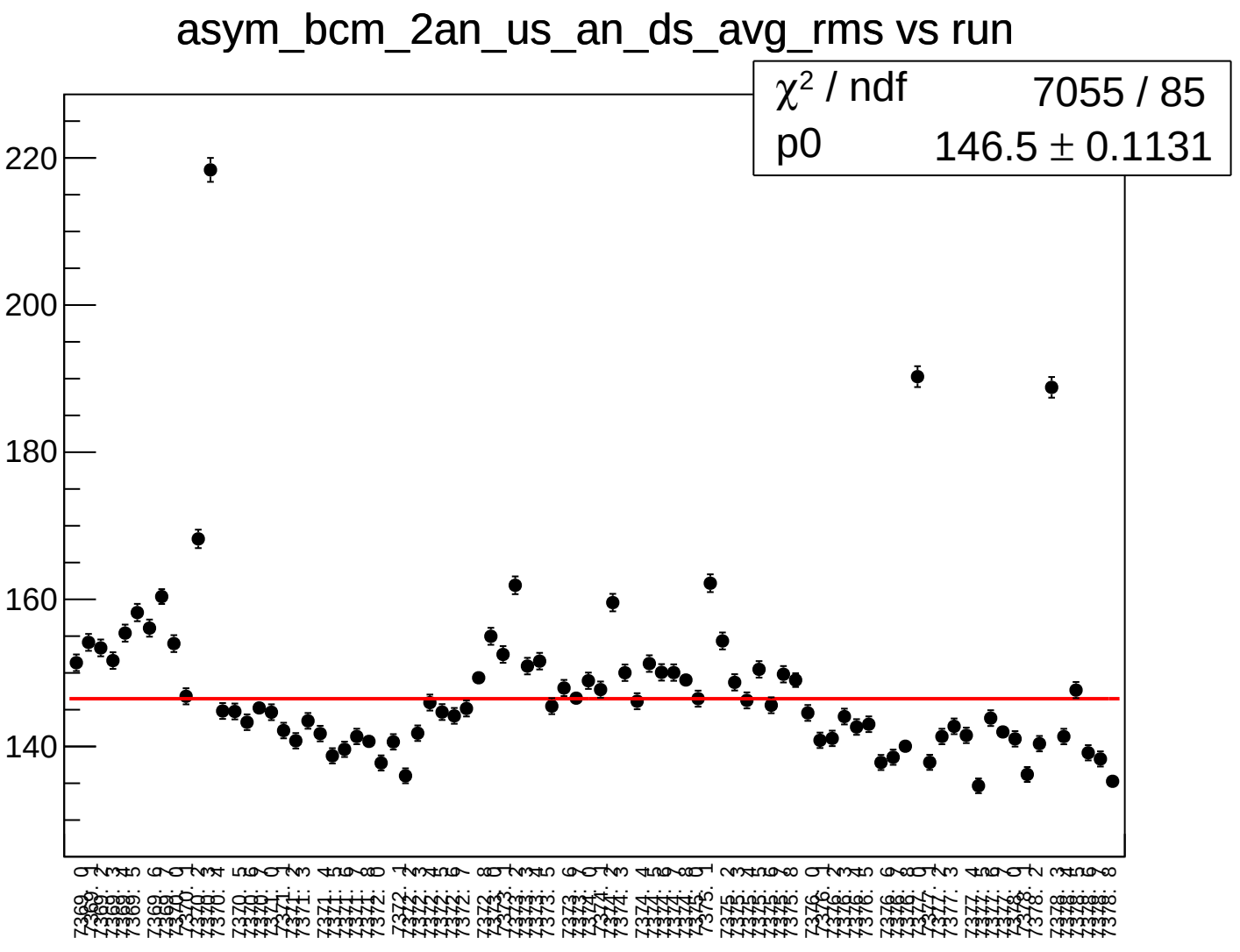

pull1D
Entries 86
Mean −0.1597
Std Dev 2.226

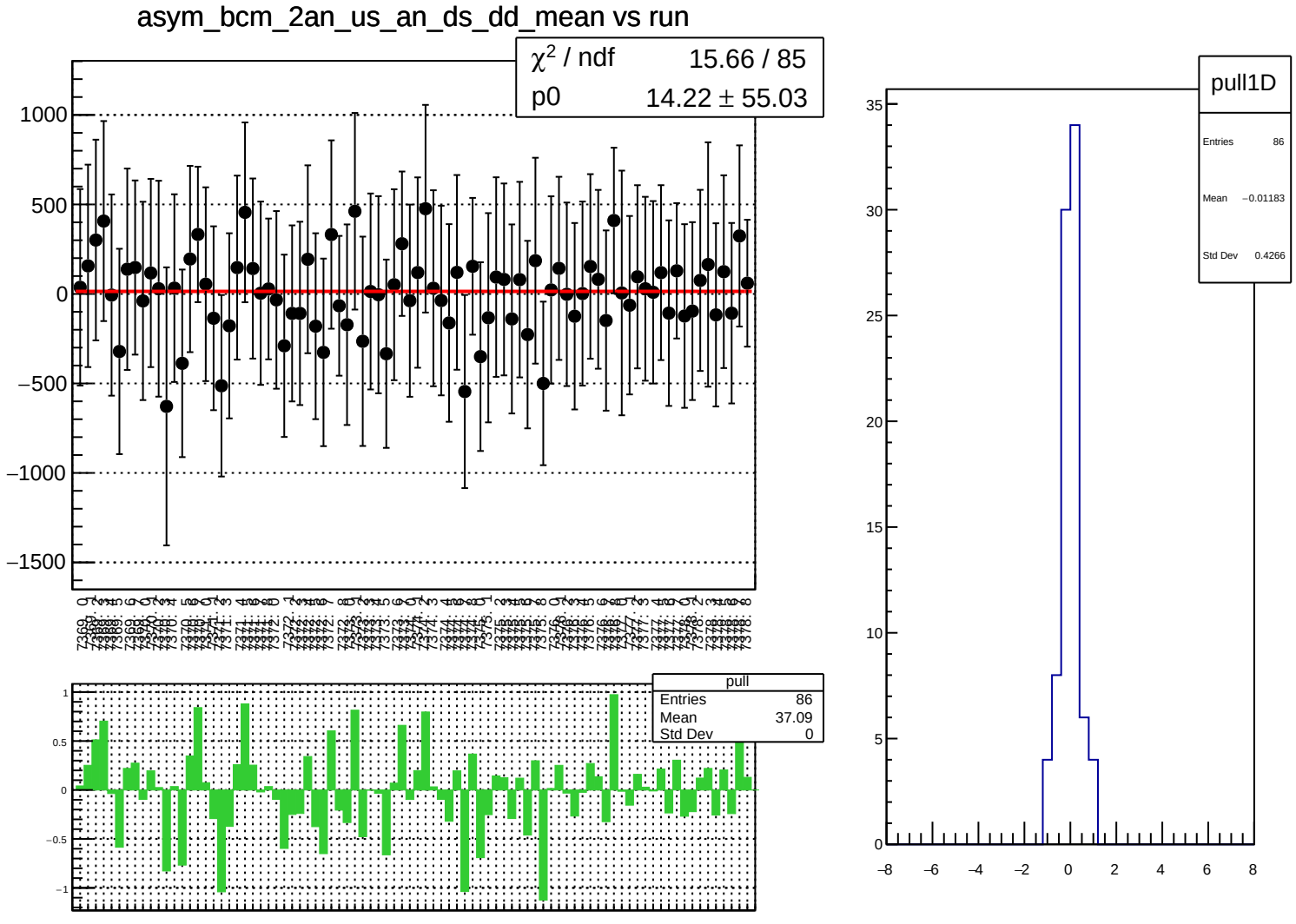

asym_bpm1i04WS_rms vs run
χ² / ndf 6188 / 85
p0 174.5 ± 0.1347
230
220
210
200
190
180
170
160
150

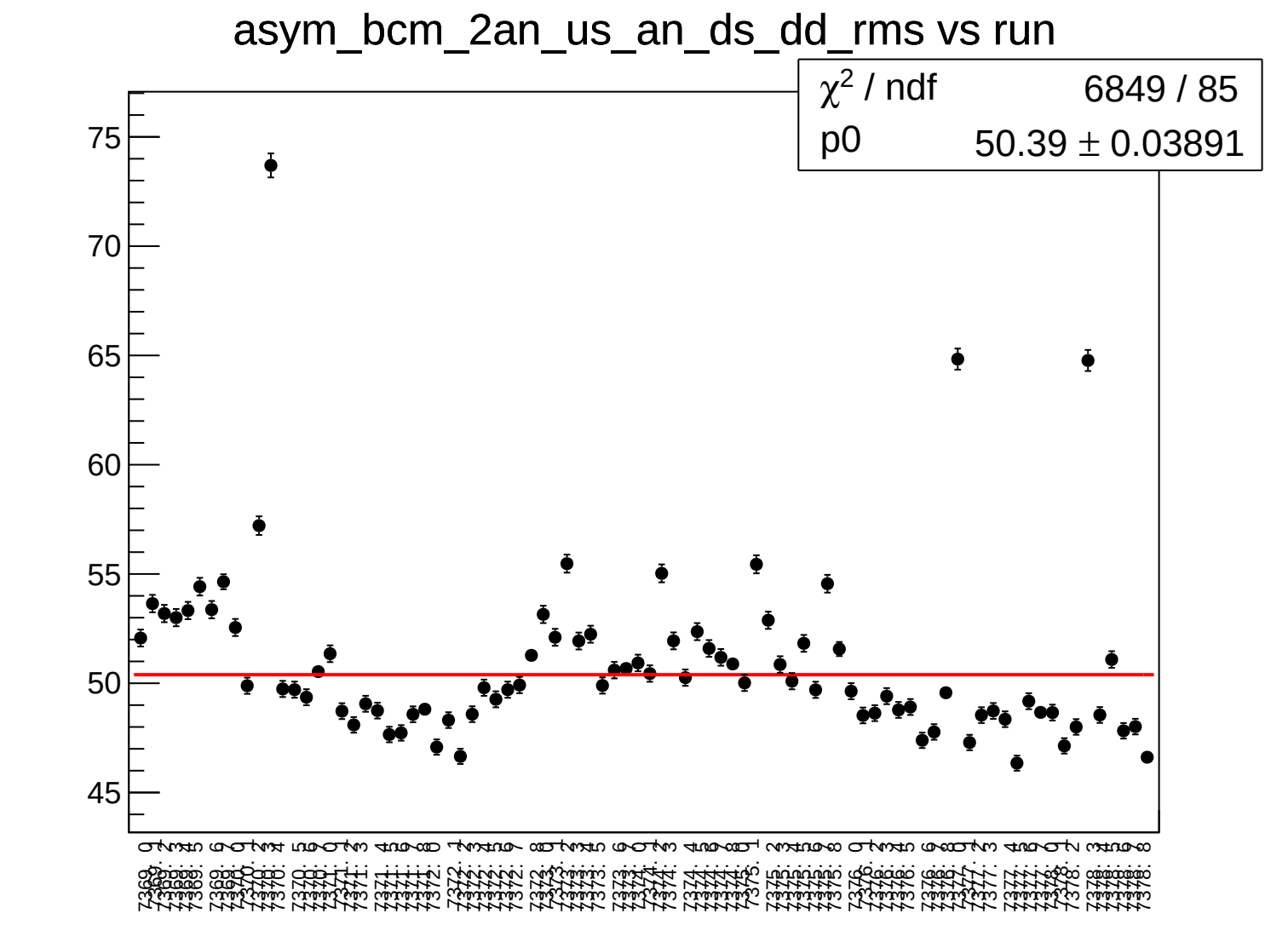

asym_bpm1i06WS_mean vs run
χ² / ndf 598.9 / 85
p0 −1.341e+04 ± 226.5
pull
Entries 86
Mean −609.4
Std Dev 0
pull1D
Entries 86
Mean −0.0626
Std Dev 2.431

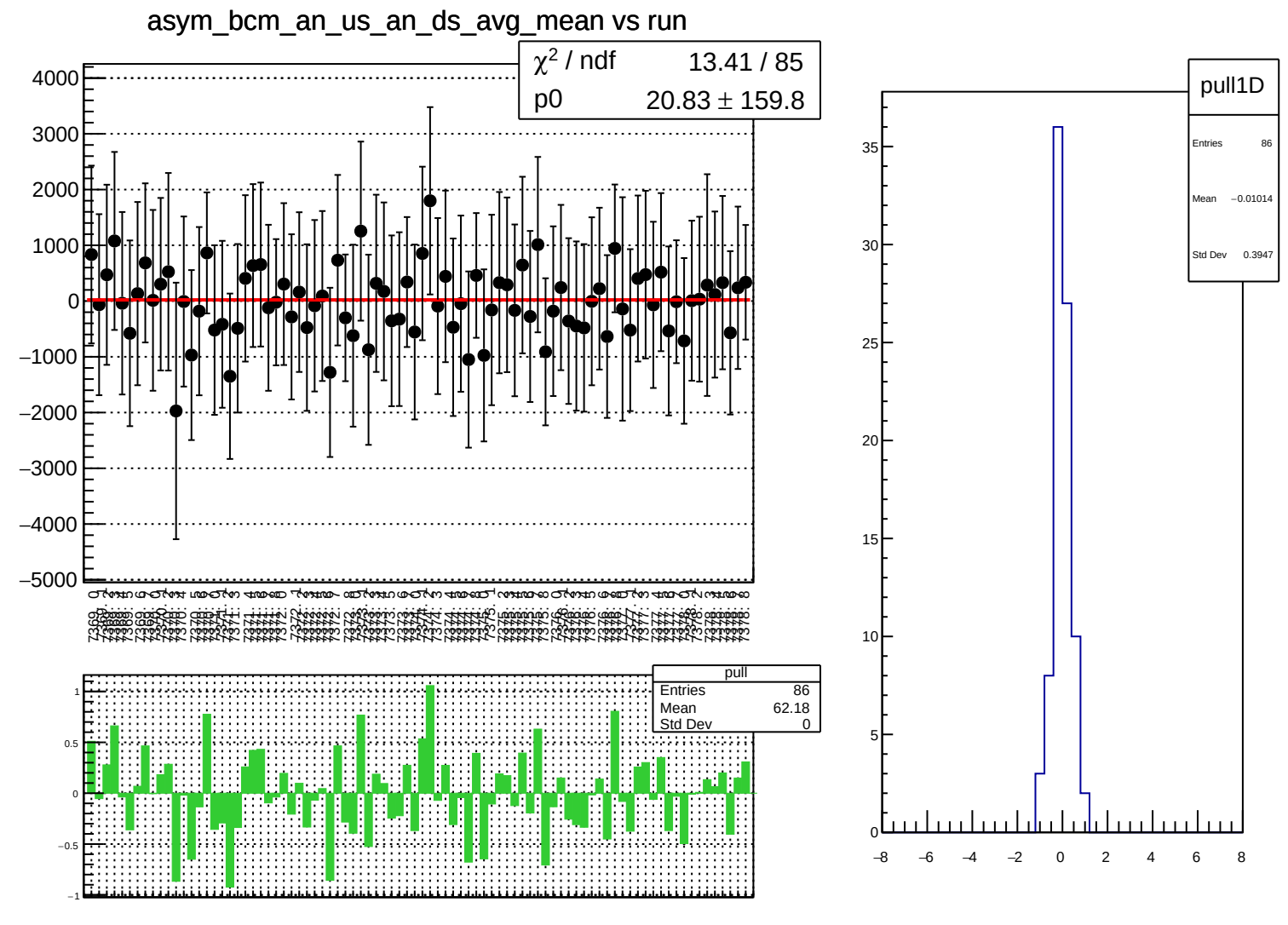

asym_bpm1i06WS_rms vs run
χ² / ndf 5401 / 85
p0 207.5 ± 0.1601
270
260
250
240
230
220
210
200
190
180

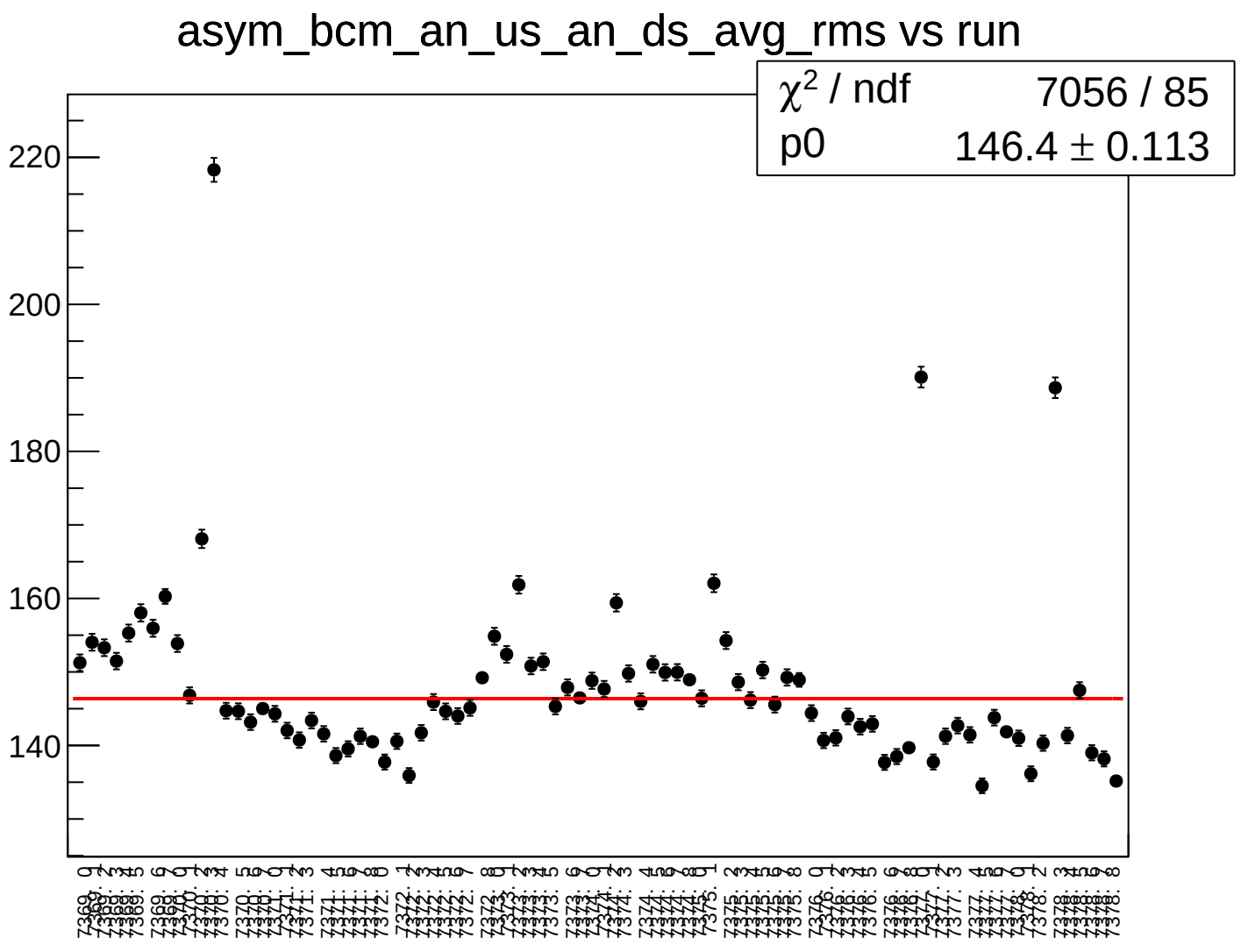

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 13.26 / 85
p0 23.55 ± 160
pull
Entries 86
Mean 58.87
Std Dev 0
pull1D
Entries 86
Mean −0.01046
Std Dev 0.3926

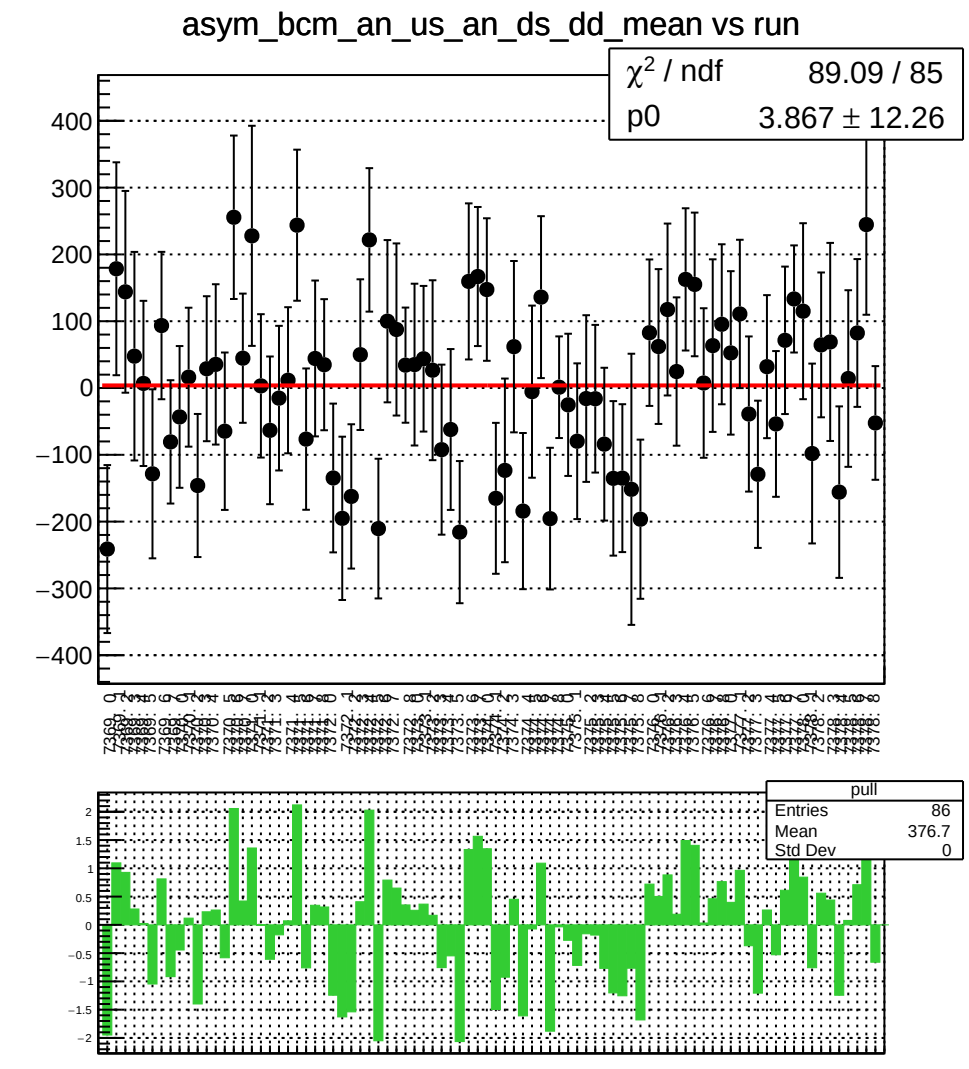

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 7055 / 85
p0 146.5 ± 0.1131
220
200
180
160
140

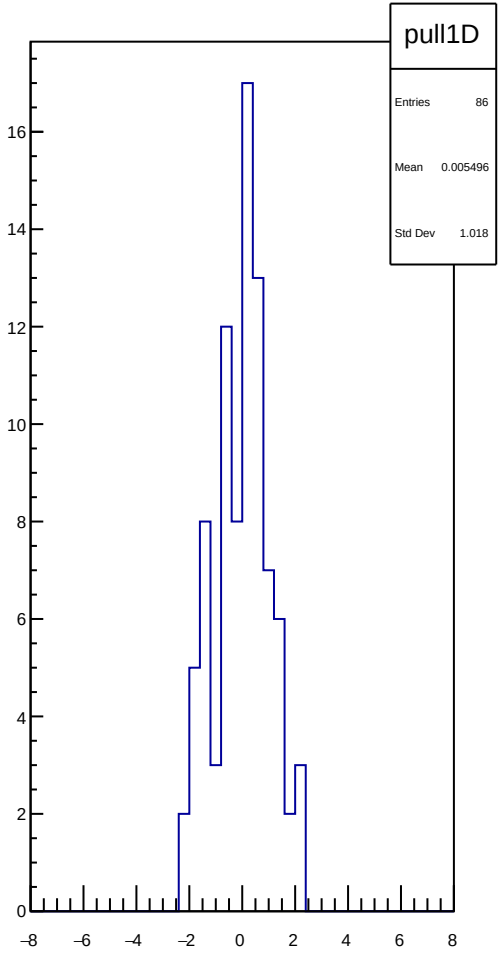

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 15.66 / 85
p0 14.22 ± 55.03
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean 37.09
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.01183
Std Dev 0.4266
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

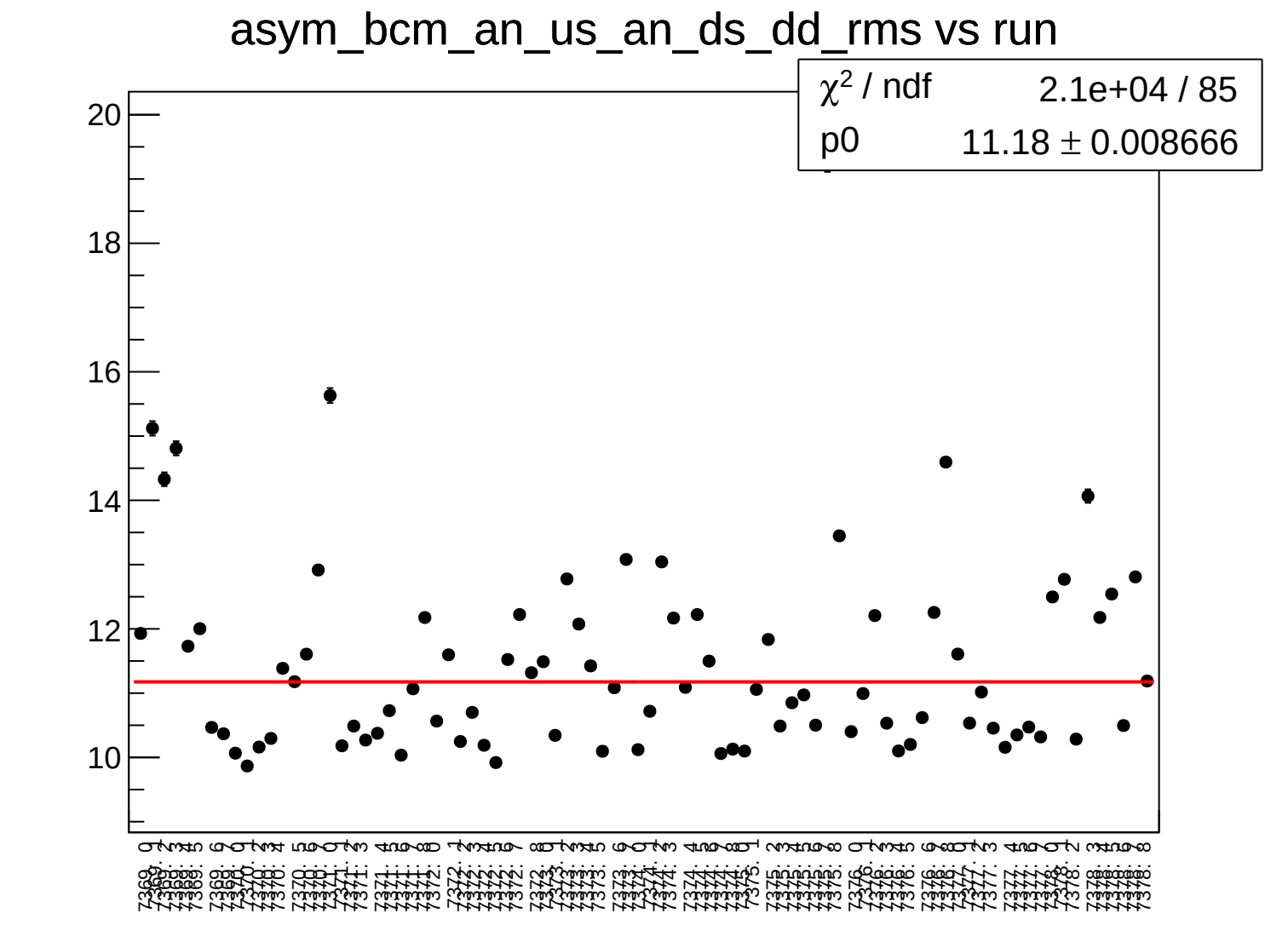

asym_bcm_2an_us_an_ds_dd_rms vs run
χ^2 / ndf 6849 / 85
p0 50.39 ± 0.03891
75
70
65
60
55
50
45

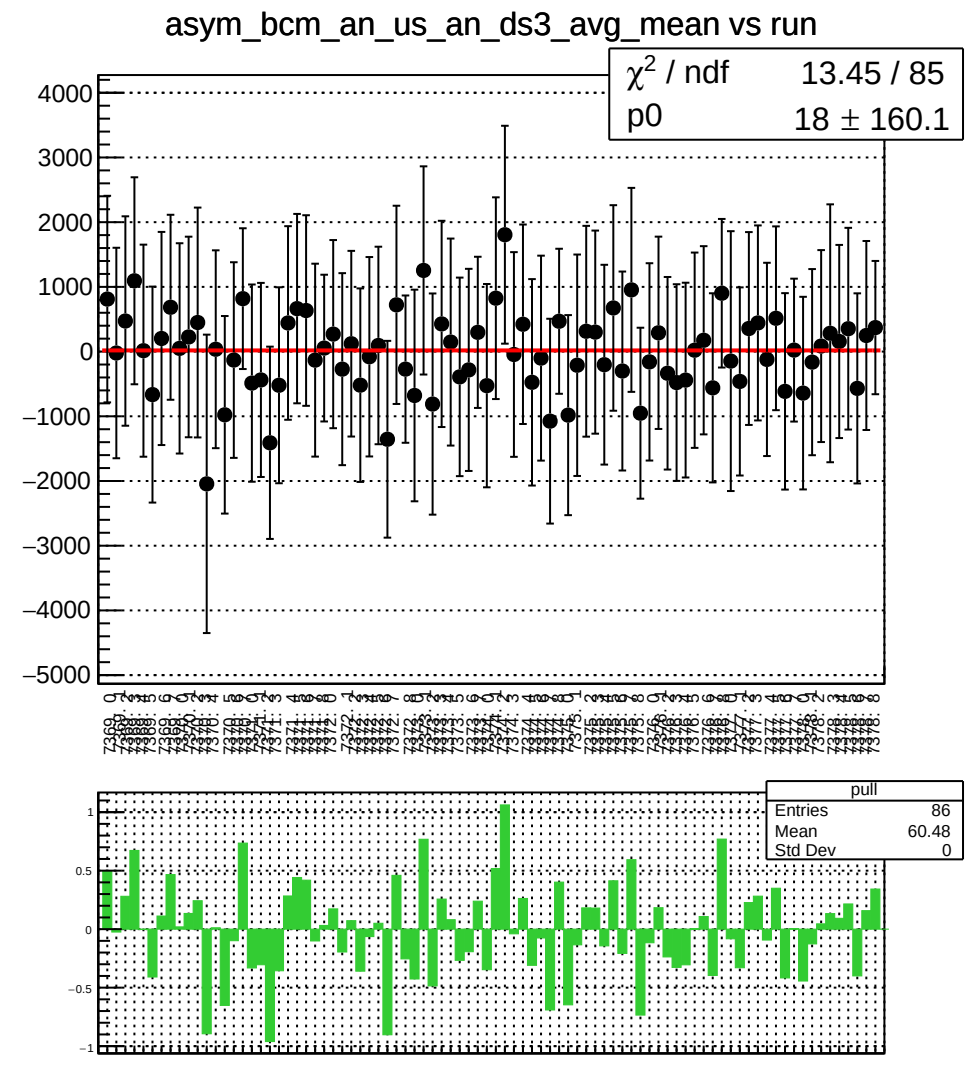

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 13.41 / 85
p0 20.83 ± 159.8
pull
Entries 86
Mean 62.18
Std Dev 0
pull1D
Entries 86
Mean −0.01014
Std Dev 0.3947

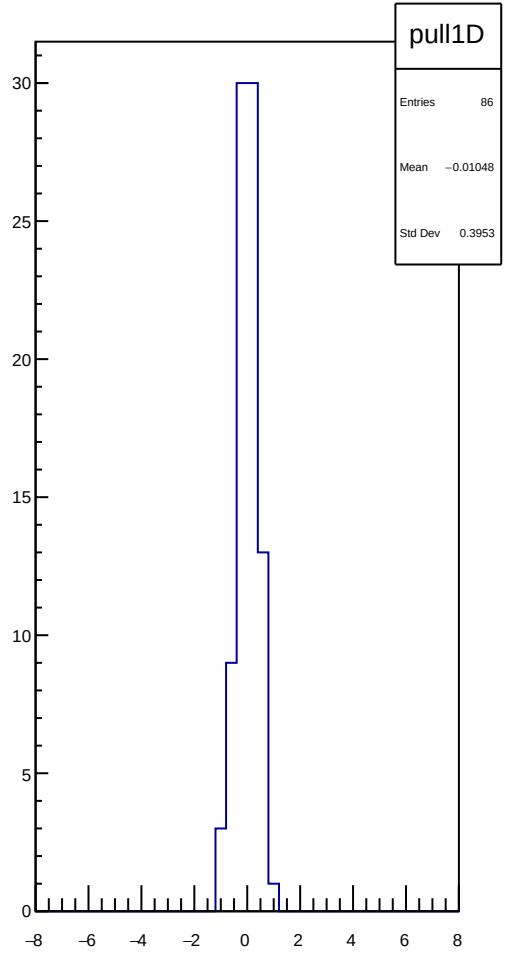

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 7056 / 85
p0 146.4 ± 0.113
220
200
180
160
140

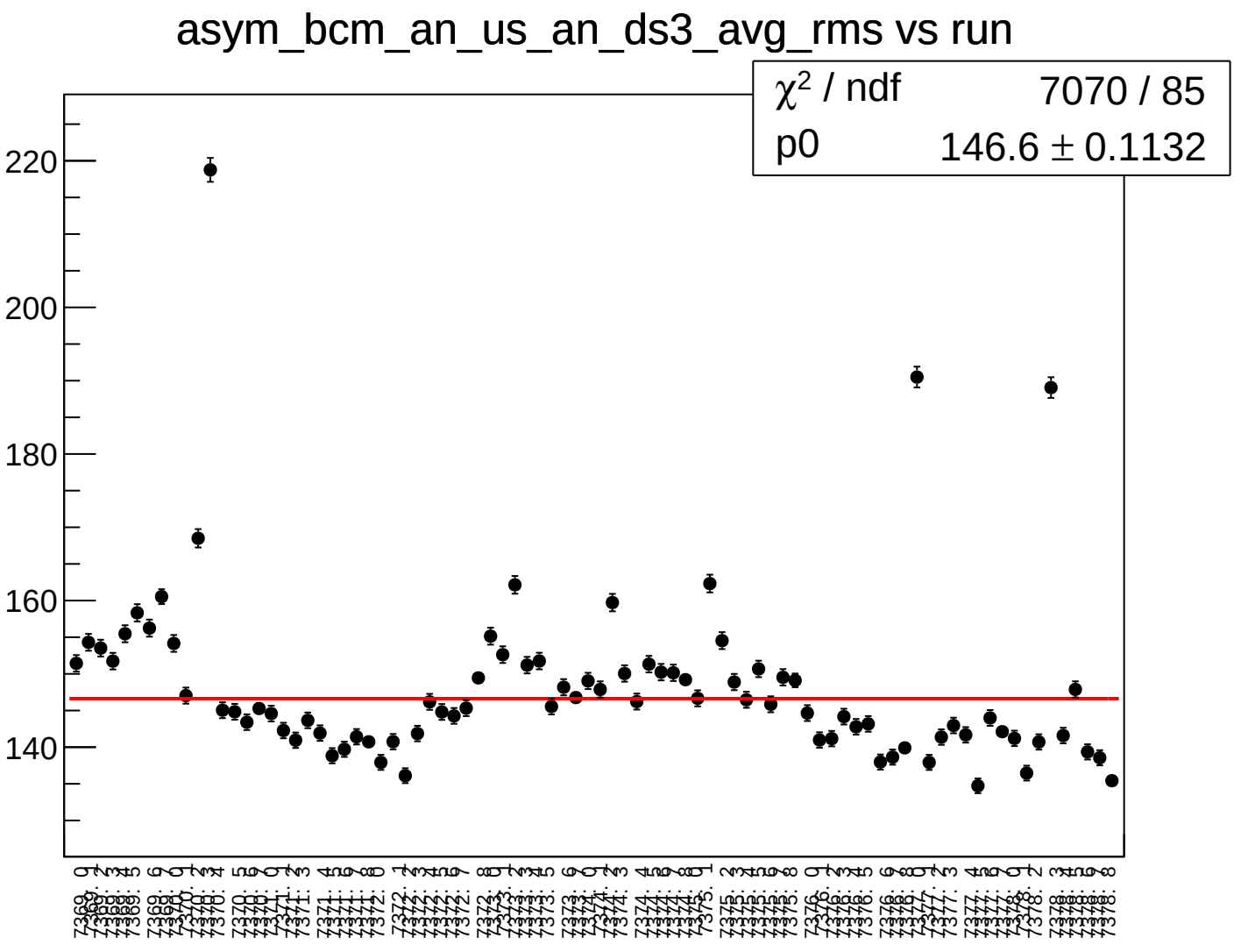

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 89.09 / 85
p0 3.867 ± 12.26
pull
Entries 86
Mean 376.7
Std Dev 0

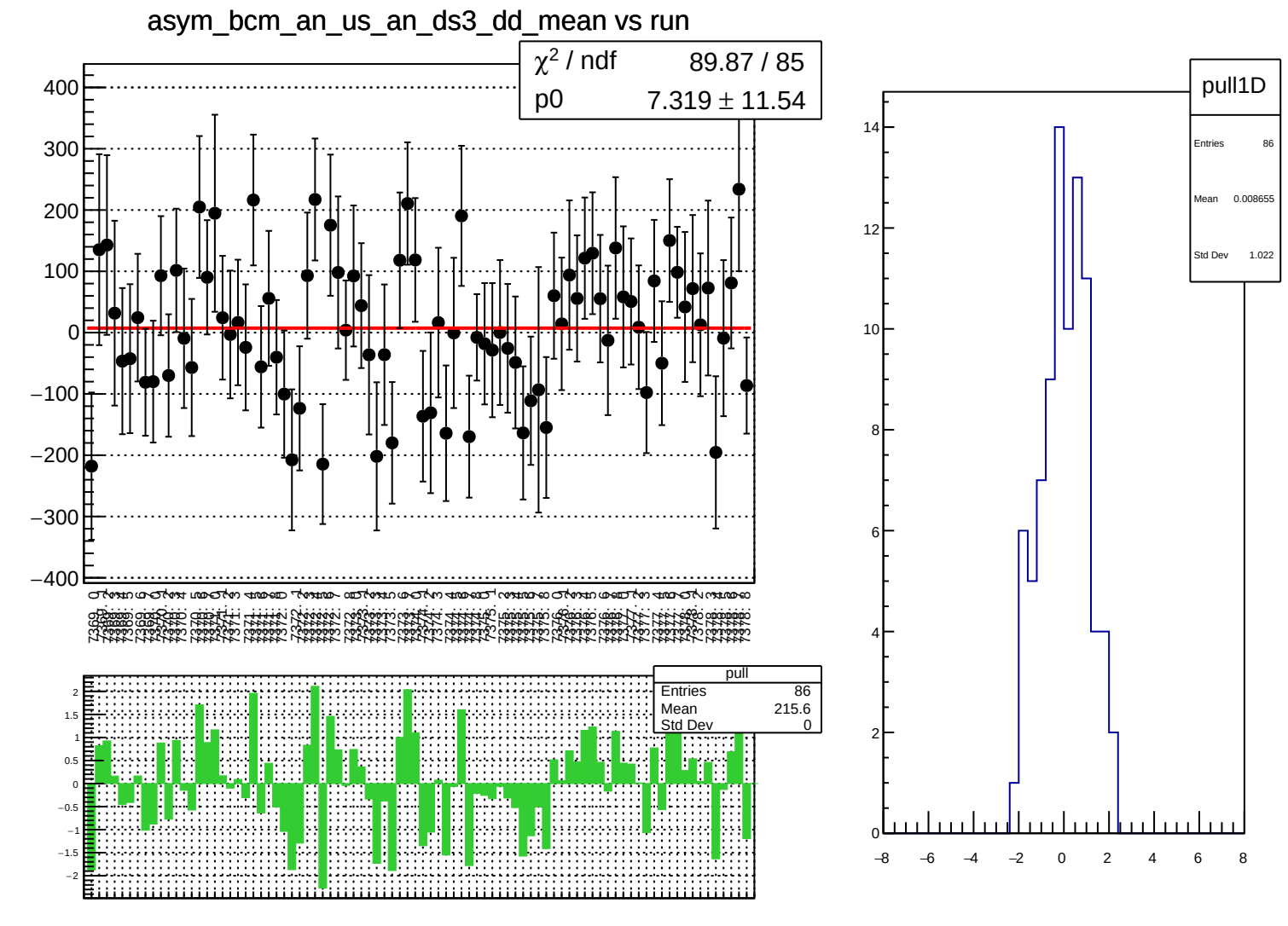

pull1D
Entries 86
Mean 0.005496
Std Dev 1.018

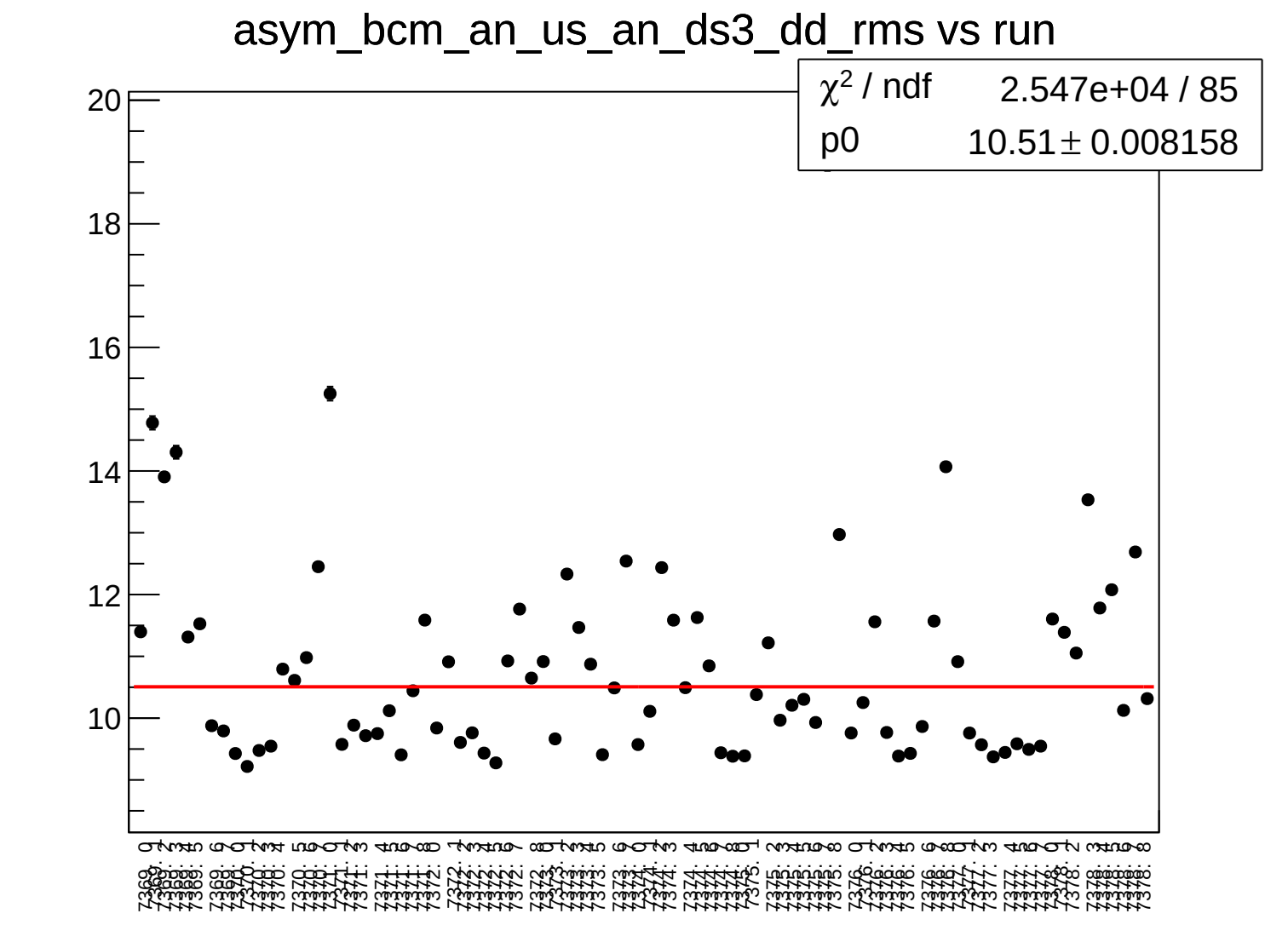

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 2.1e+04 / 85
p0 11.18 ± 0.008666
20
18
16
14
12
10

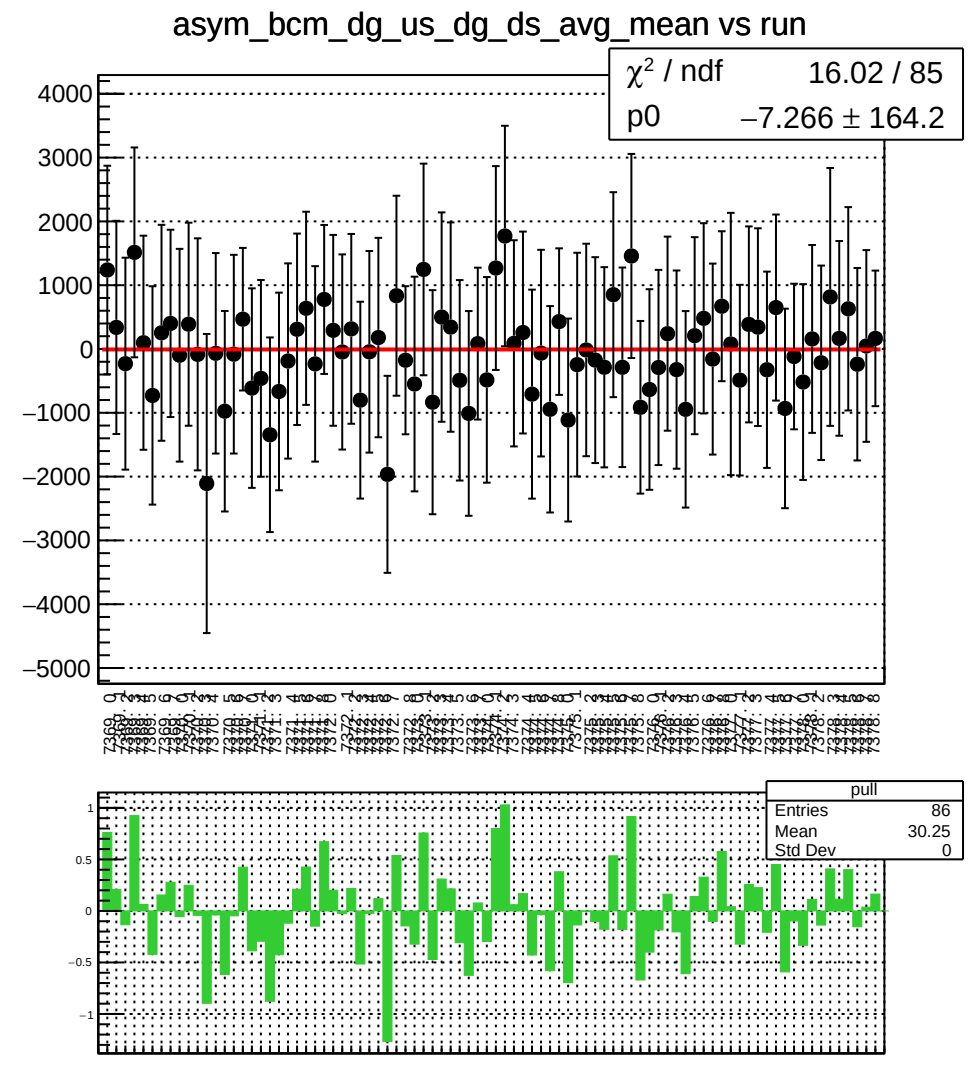

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 13.45 / 85
p0 18 ± 160.1
pull
Entries 86
Mean 60.48
Std Dev 0

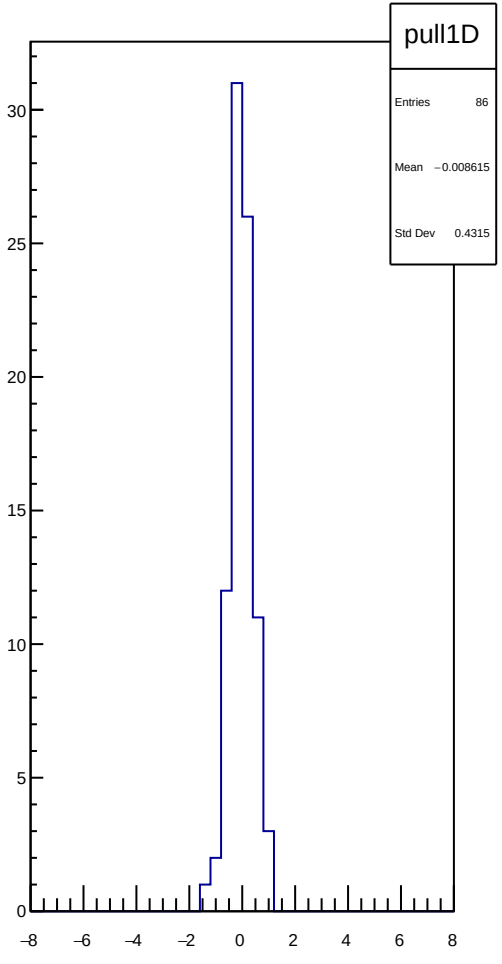

pull1D
Entries 86
Mean −0.01048
Std Dev 0.3953

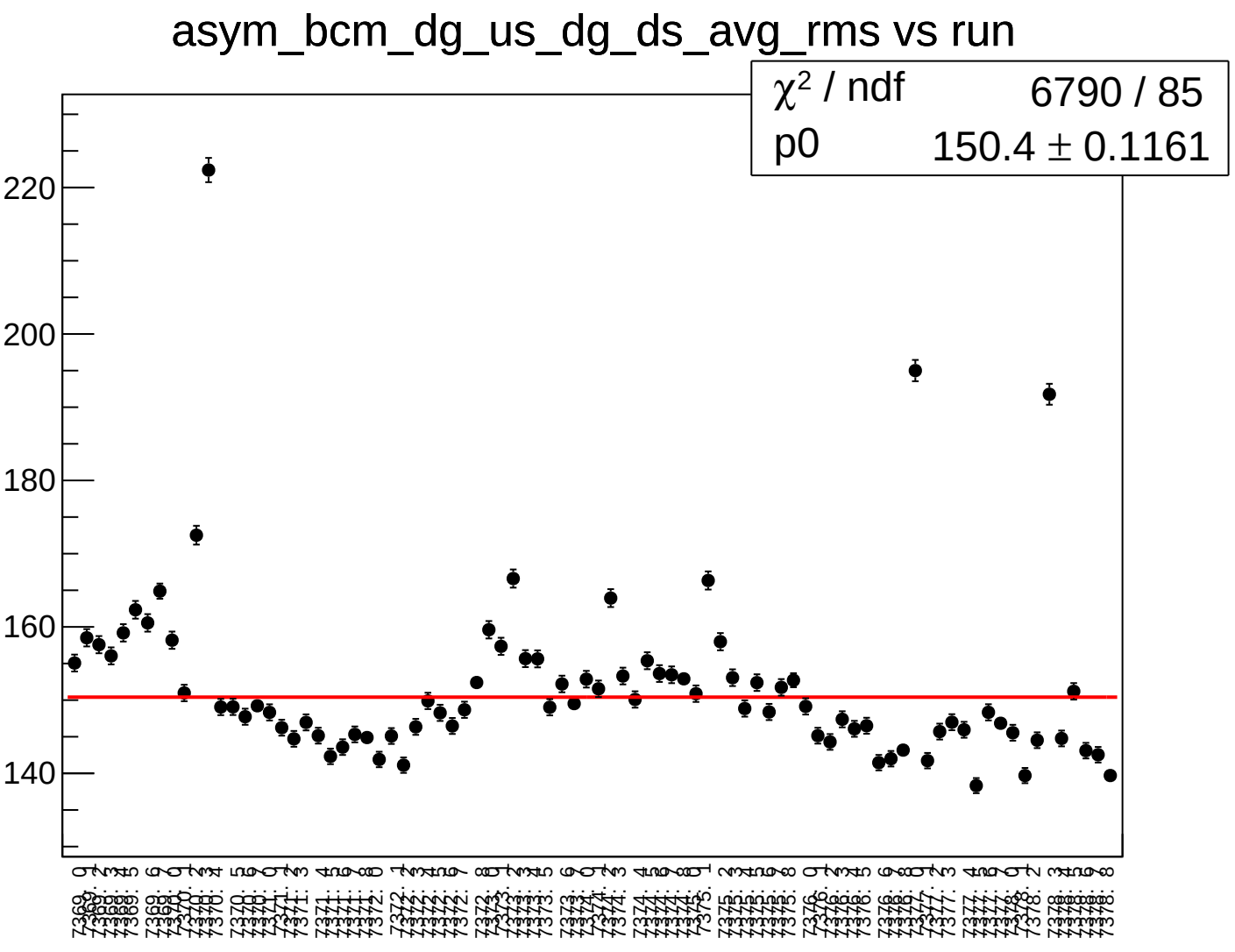

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 7070 / 85
p0 146.6 ± 0.1132
220
200
180
160
140

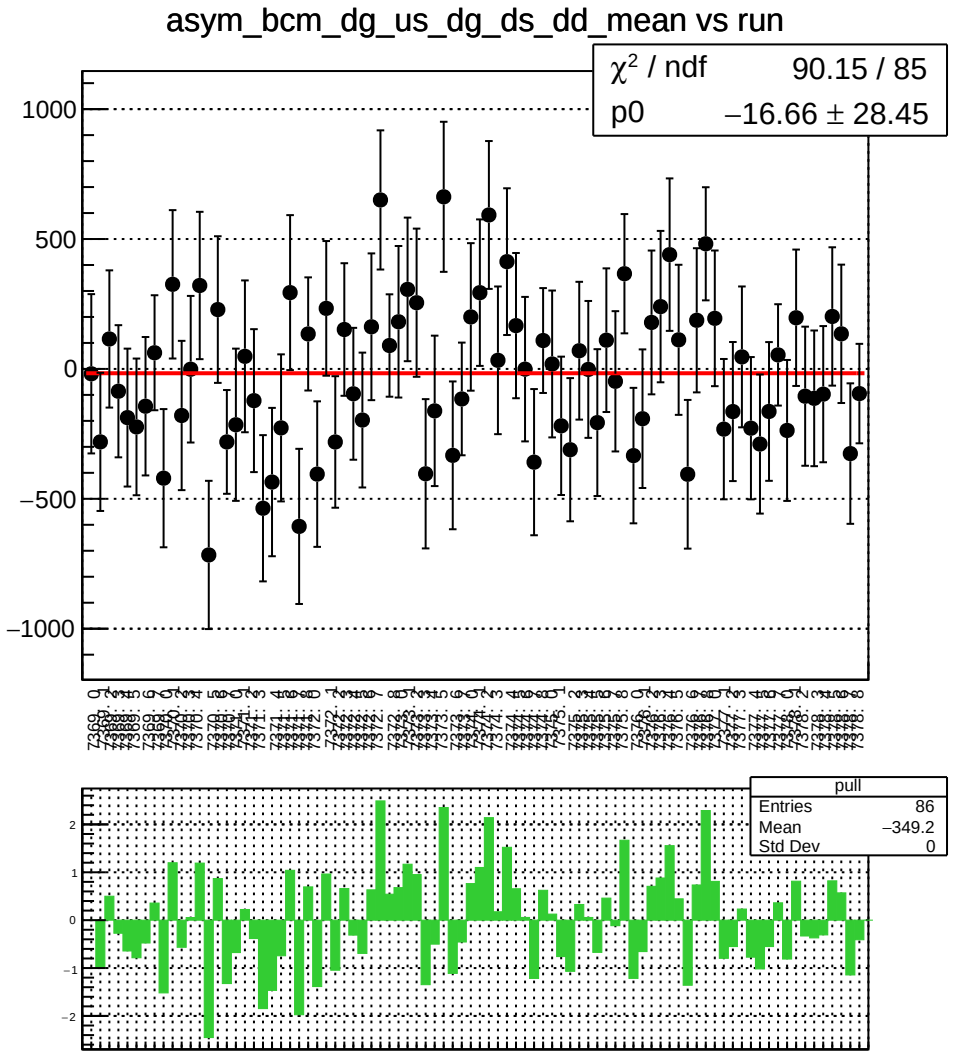

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 89.87 / 85
p0 7.319 ± 11.54
pull
Entries 86
Mean 215.6
Std Dev 0
pull1D
Entries 86
Mean 0.008655
Std Dev 1.022

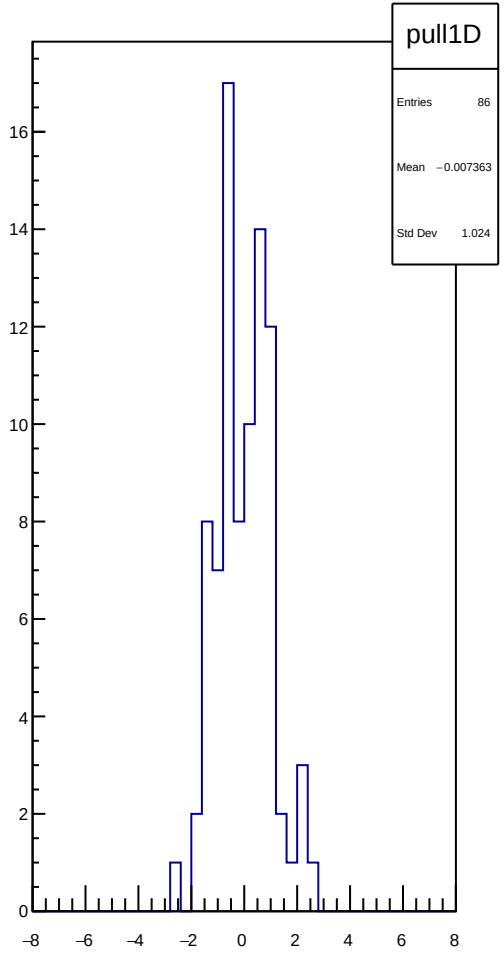

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 2.547e+04 / 85
p0 10.51 ± 0.008158
20
18
16
14
12
10

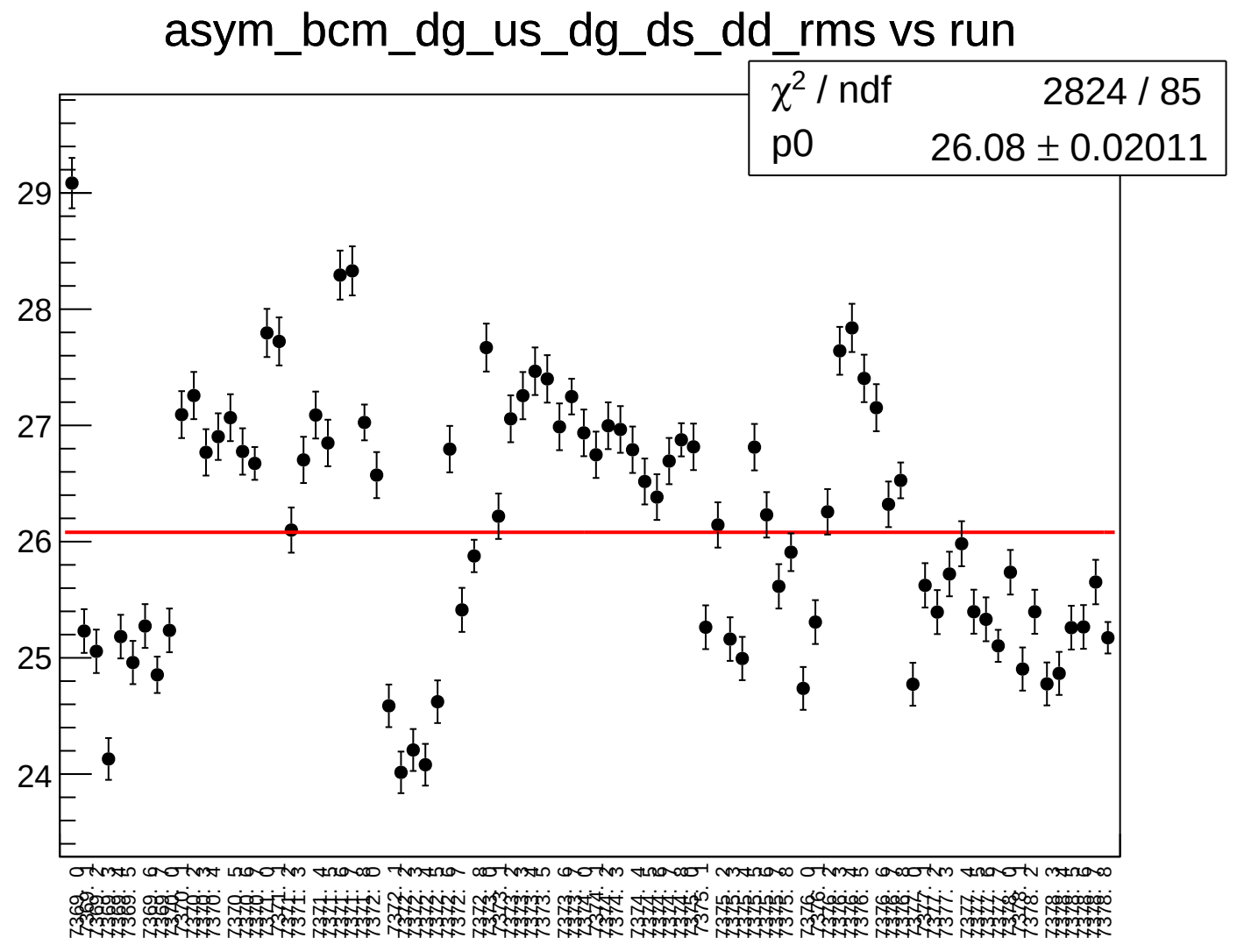

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 16.02 / 85
p0 −7.266 ± 164.2
pull
Entries 86
Mean 30.25
Std Dev 0

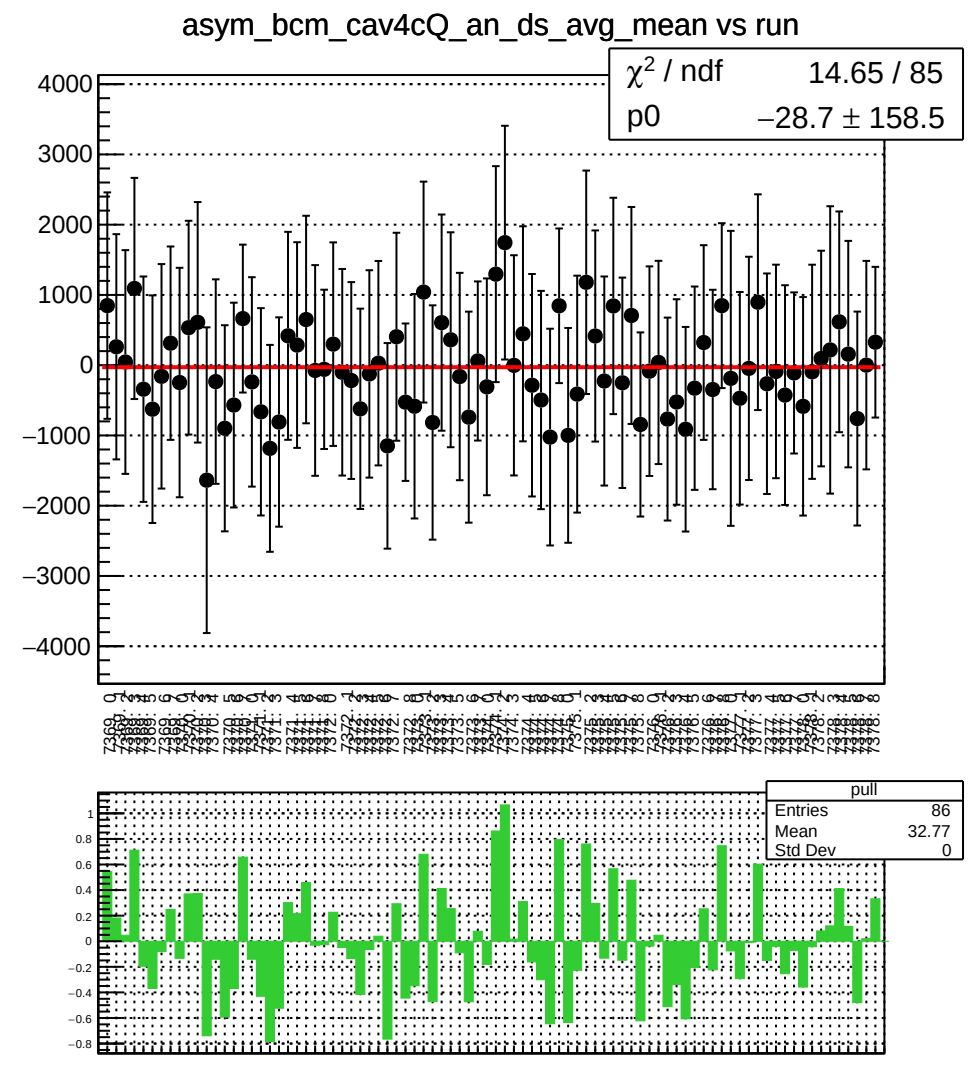

pull1D
Entries 86
Mean −0.008615
Std Dev 0.4315

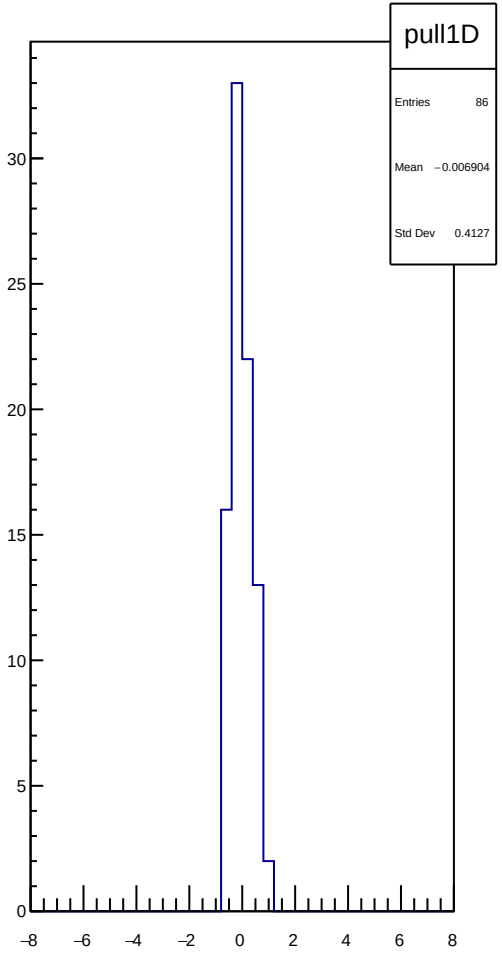

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 6790 / 85
p0 150.4 ± 0.1161
220
200
180
160
140

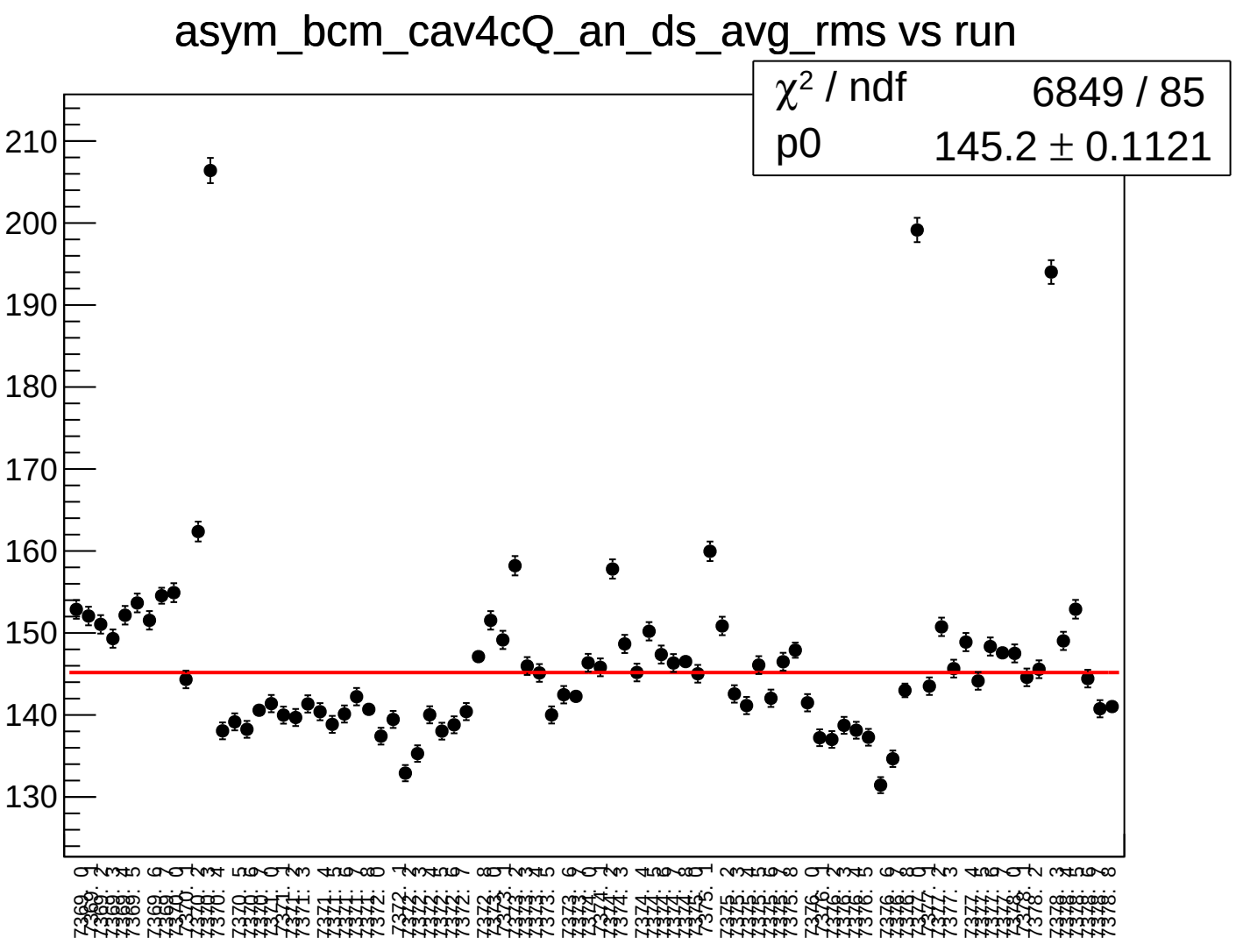

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 90.15 / 85
p0 −16.66 ± 28.45
1000
500
0
−500
−1000
pull
Entries 86
Mean −349.2
Std Dev 0
2
1
0
−1
−2

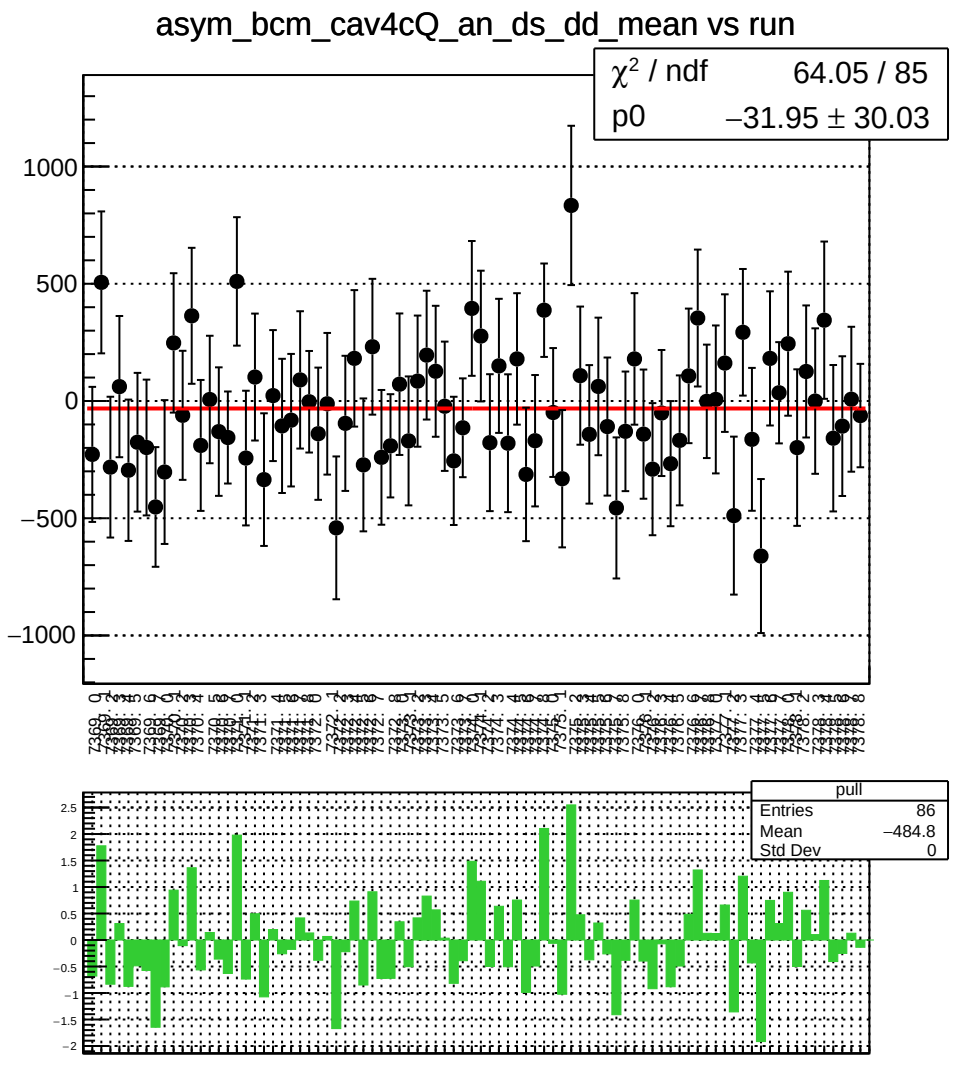

pull1D
Entries 86
Mean −0.007363
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

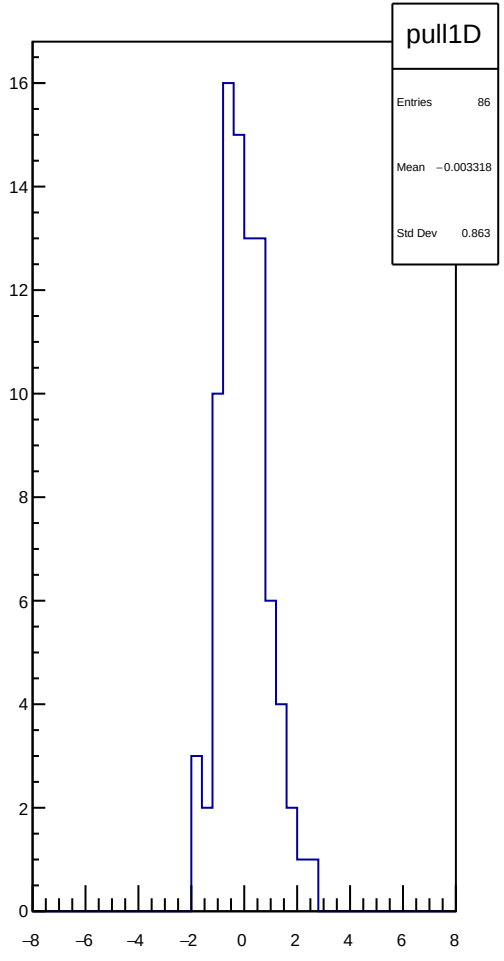

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2824 / 85
p0 26.08 ± 0.02011
29
28
27
26
25
24

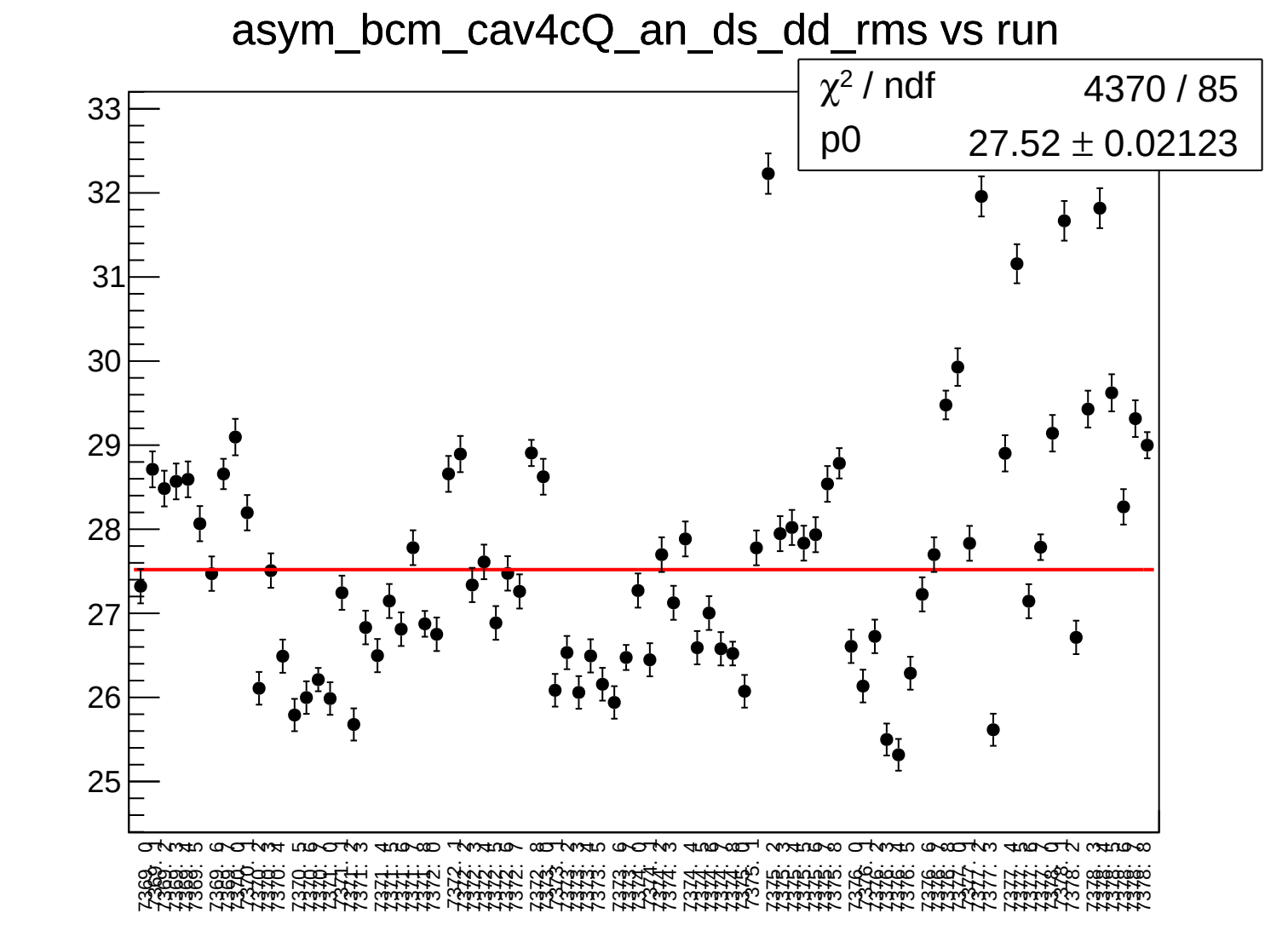

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 14.65 / 85
p0 −28.7 ± 158.5
pull
Entries 86
Mean 32.77
Std Dev 0

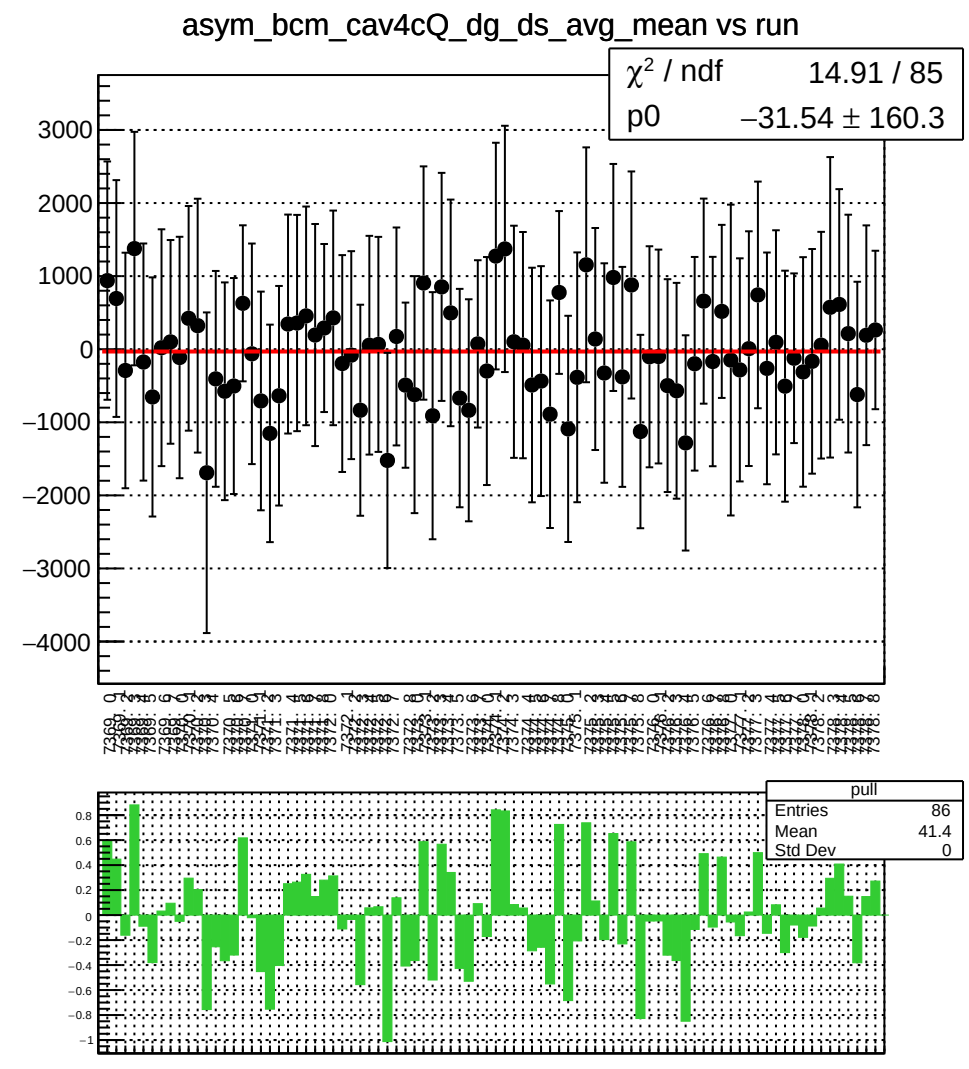

pull1D
Entries 86
Mean −0.006904
Std Dev 0.4127

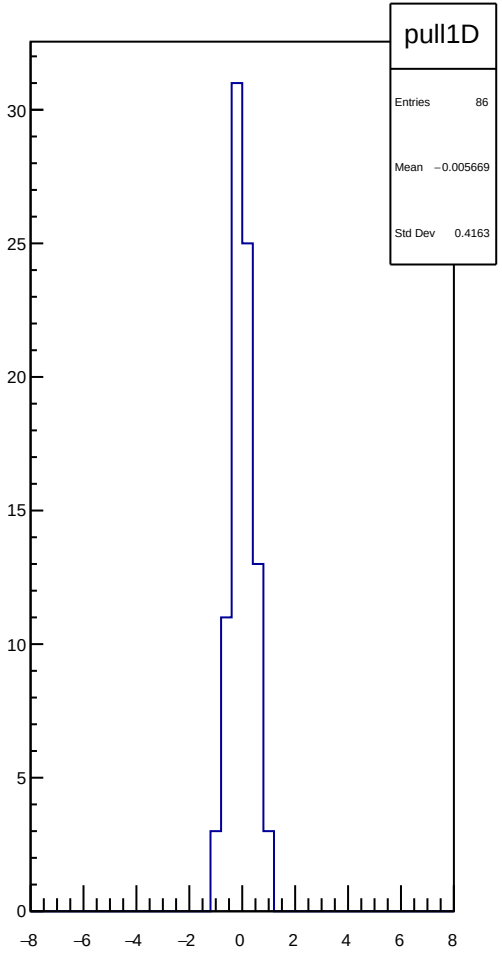

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 6849 / 85
p0 145.2 ± 0.1121
210
200
190
180
170
160
150
140
130

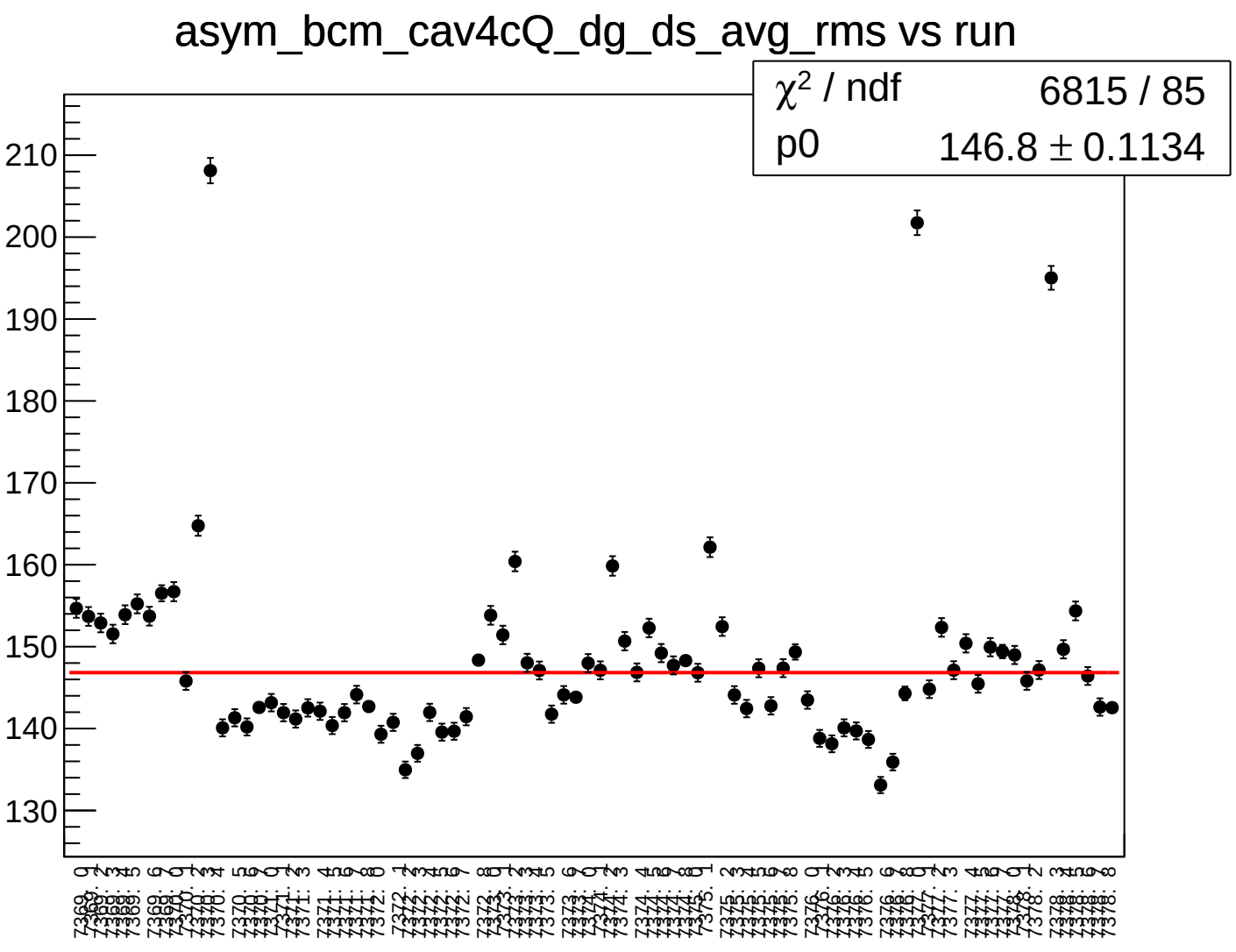

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 64.05 / 85
p0 −31.95 ± 30.03
1000
500
0
−500
−1000
pull
Entries 86
Mean −484.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

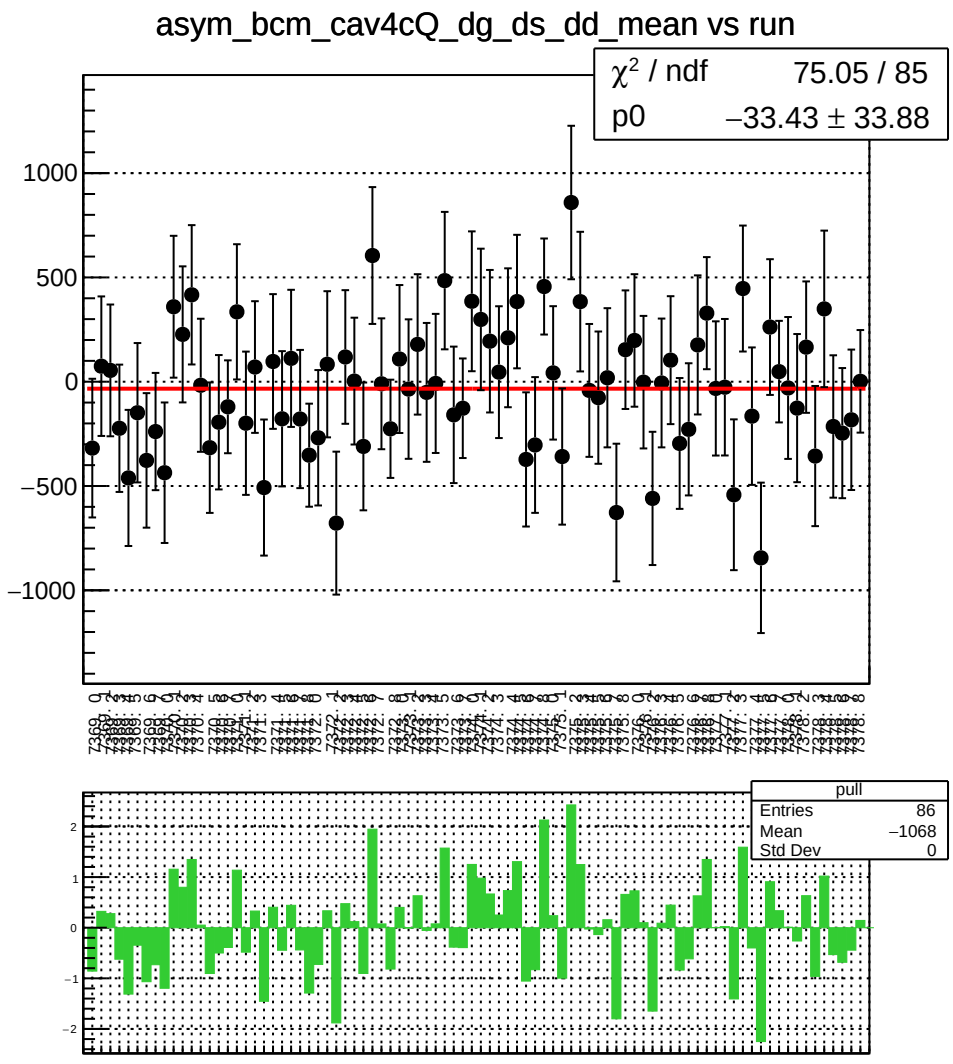

pull1D
Entries 86
Mean −0.003318
Std Dev 0.863
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

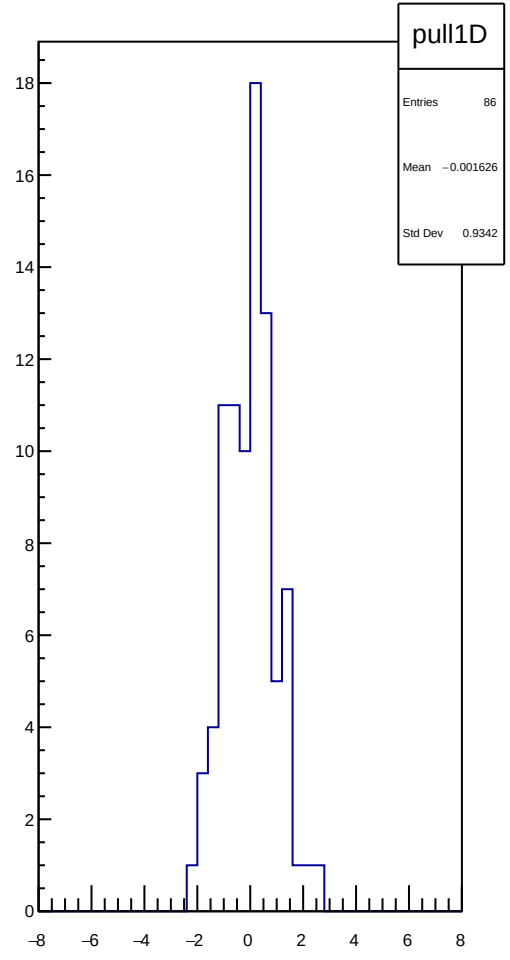

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 4370 / 85
p0 27.52 ± 0.02123
33
32
31
30
29
28
27
26
25

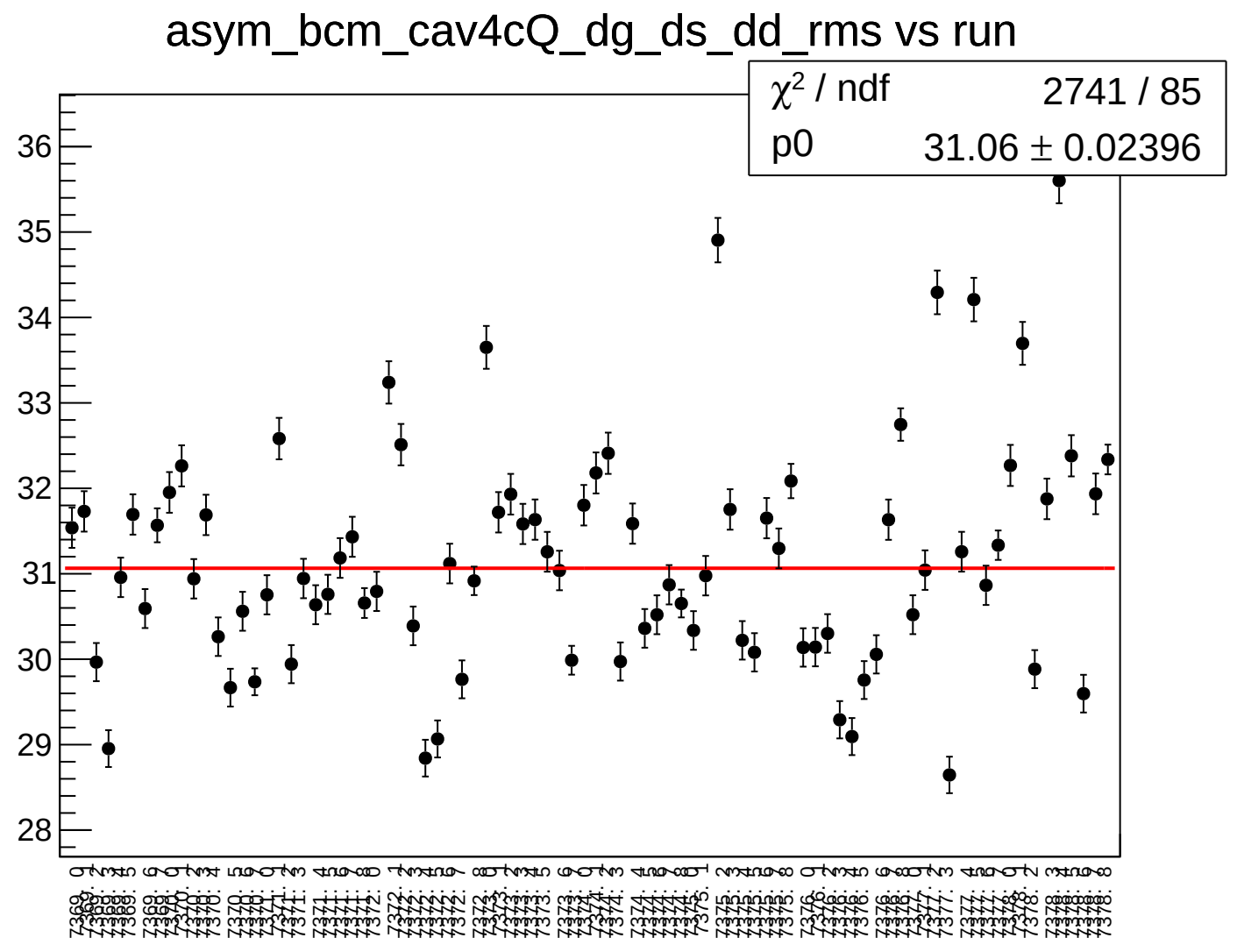

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 14.91 / 85
p0 −31.54 ± 160.3
pull
Entries 86
Mean 41.4
Std Dev 0

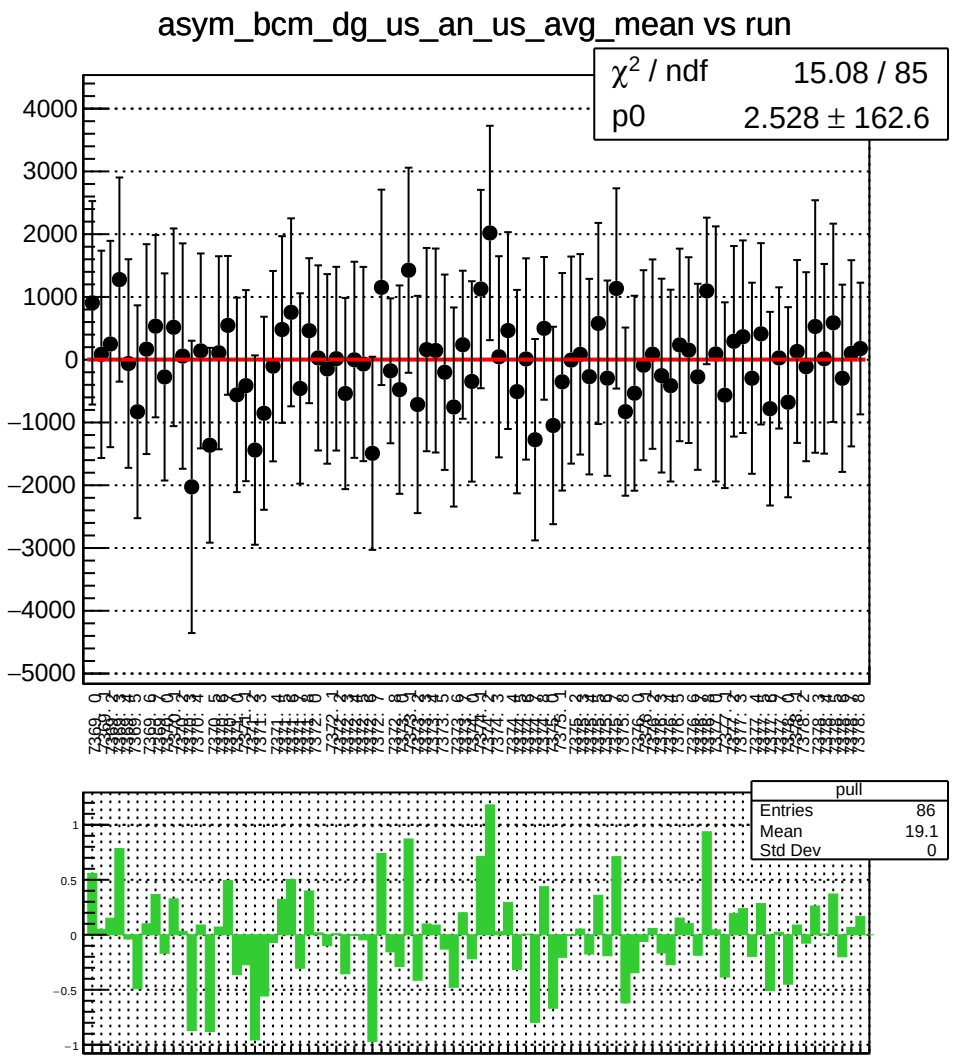

pull1D
Entries 86
Mean −0.005669
Std Dev 0.4163

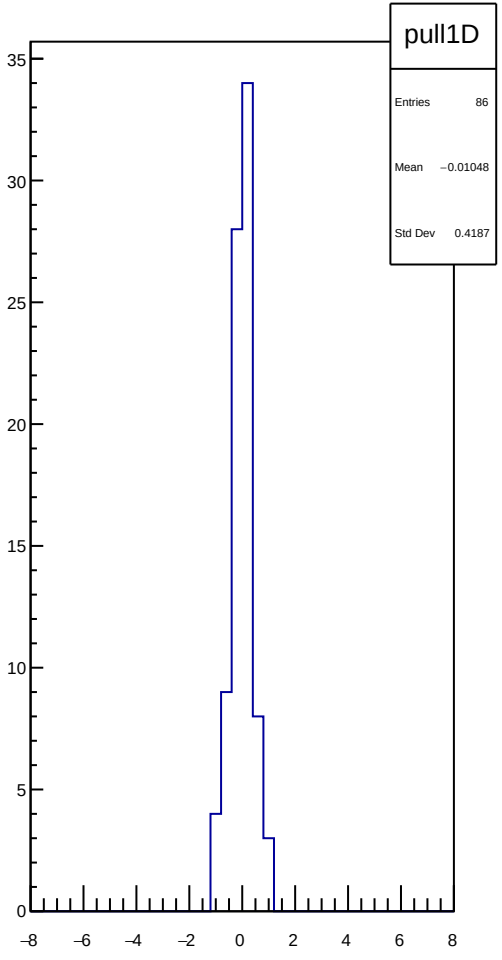

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 6815 / 85
p0 146.8 ± 0.1134
210
200
190
180
170
160
150
140
130

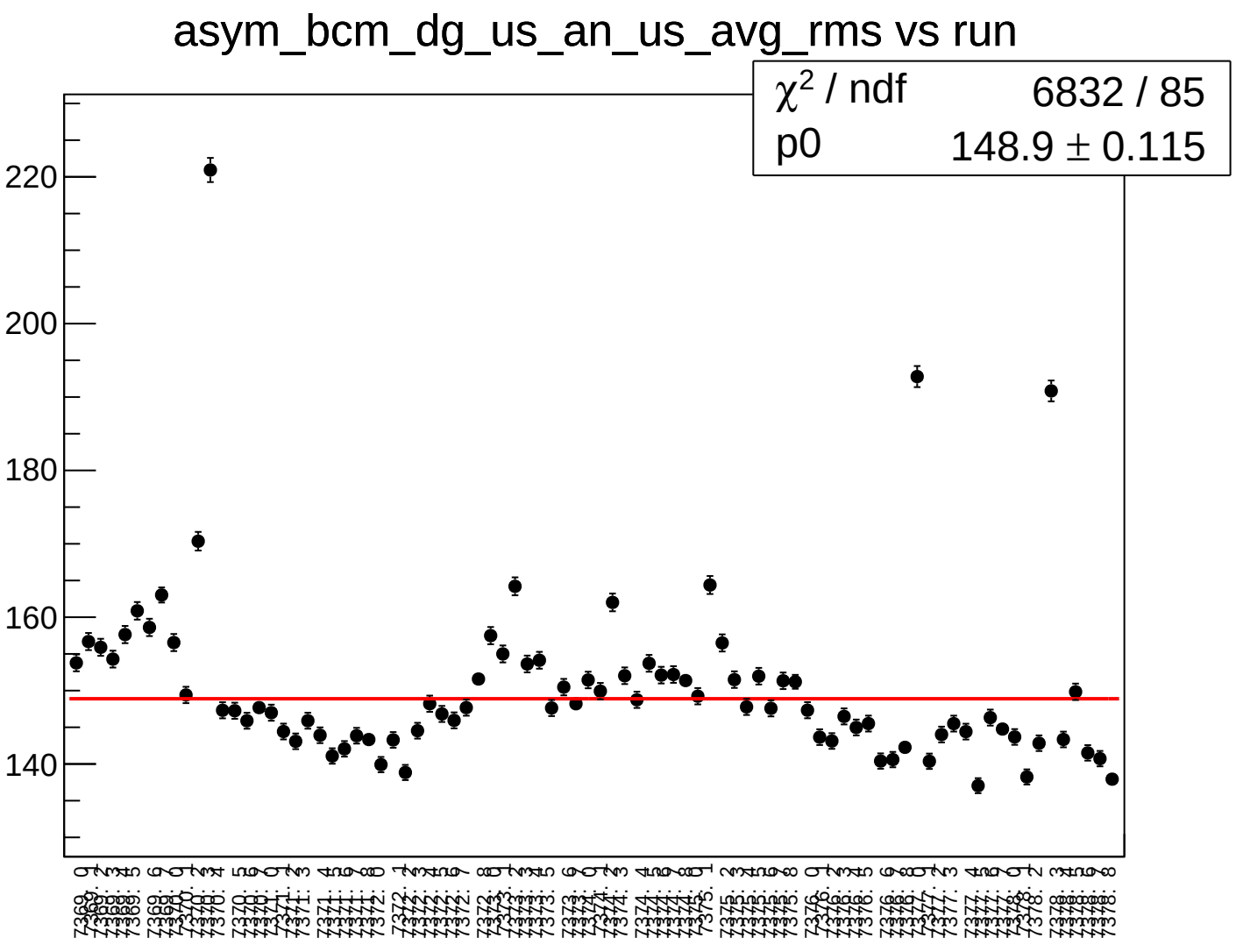

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 75.05 / 85
p0 −33.43 ± 33.88
1000
500
0
−500
−1000
pull
Entries 86
Mean −1068
Std Dev 0
2
1
0
−1
−2

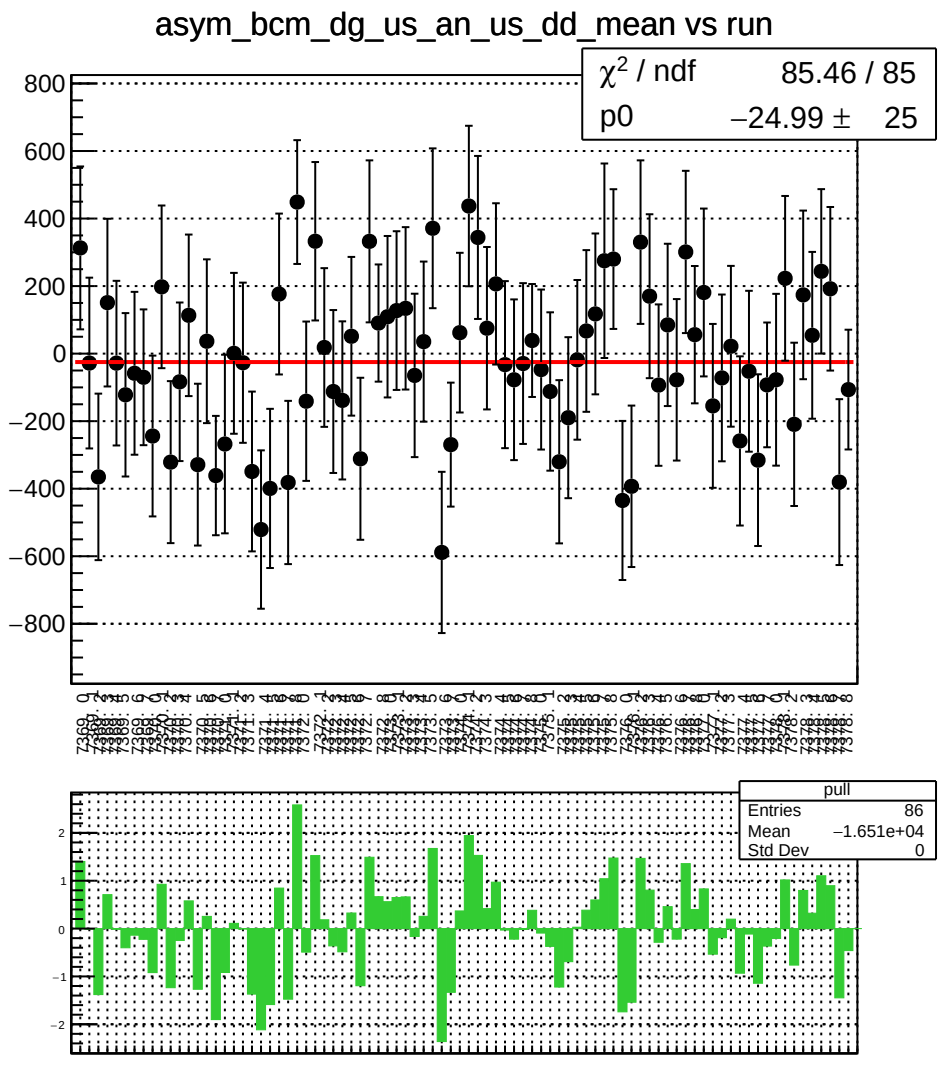

pull1D
Entries 86
Mean −0.001626
Std Dev 0.9342
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

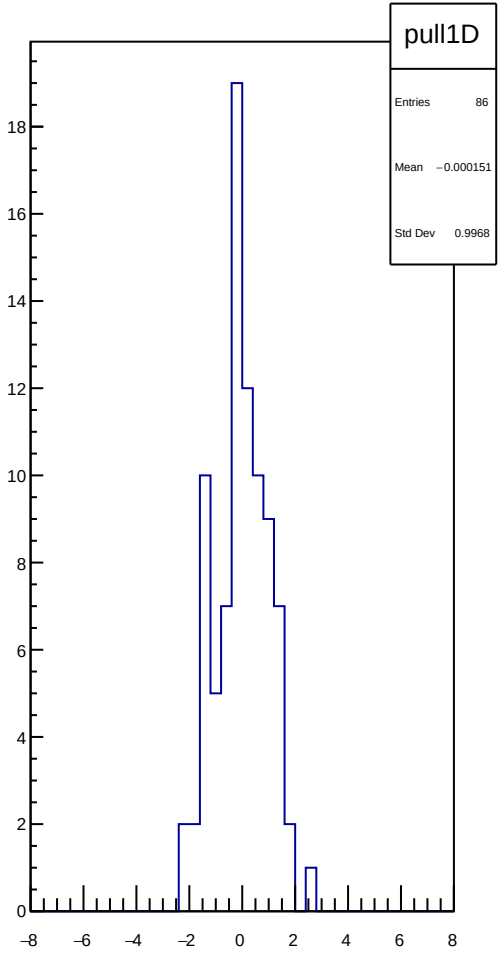

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2741 / 85
p0 31.06 ± 0.02396
36
35
34
33
32
31
30
29
28

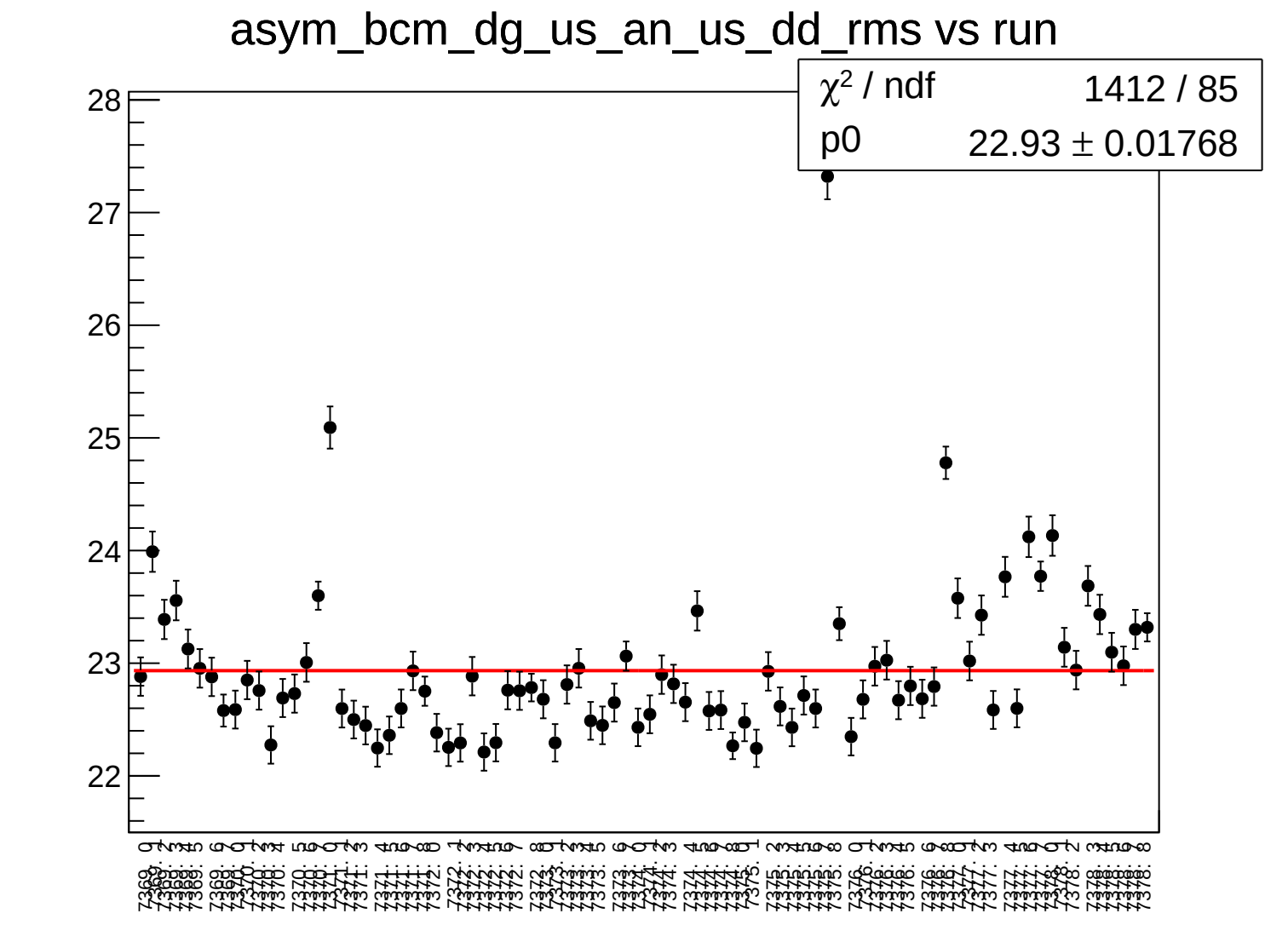

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 15.08 / 85
p0 2.528 ± 162.6
pull
Entries 86
Mean 19.1
Std Dev 0

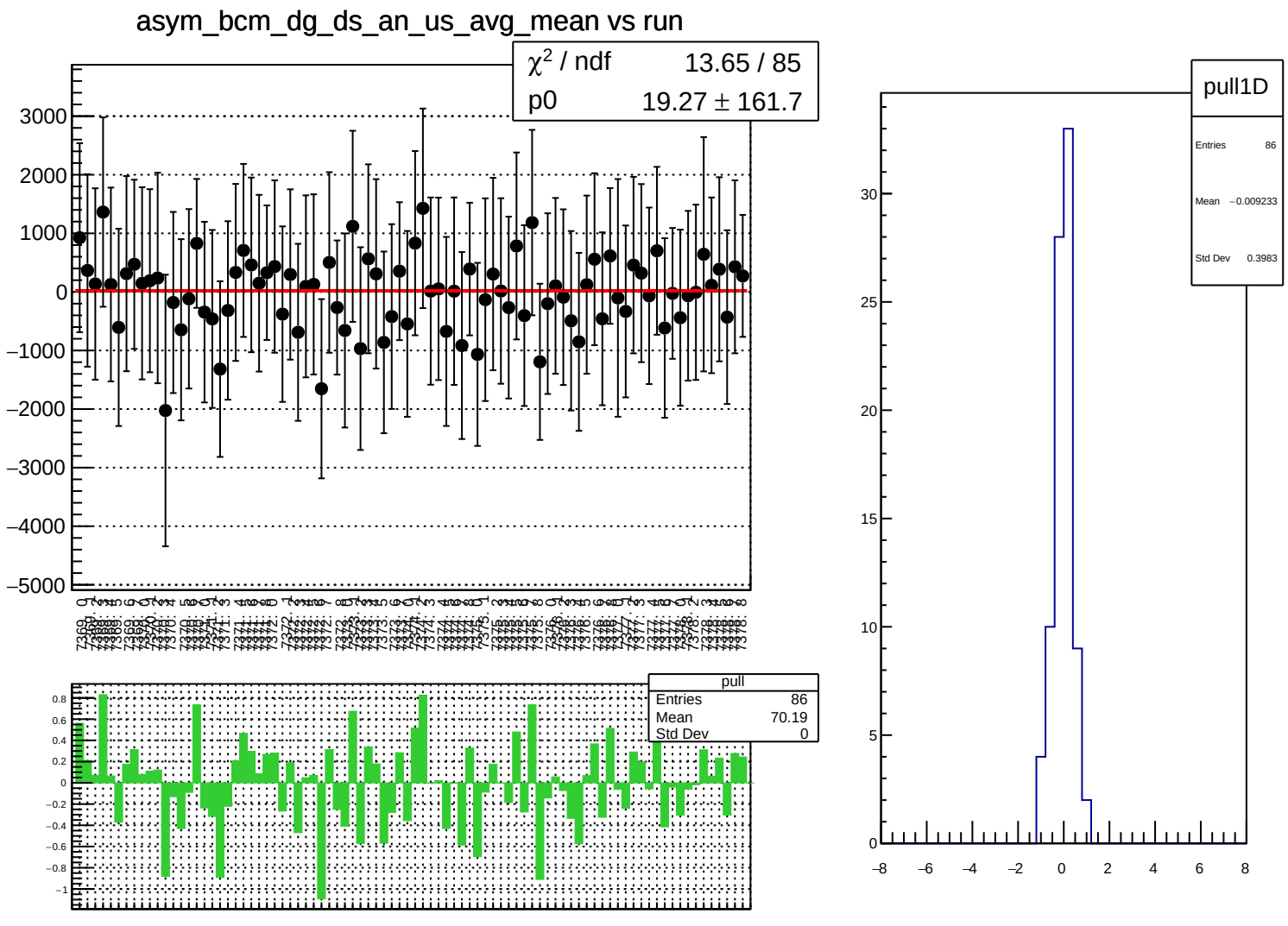

pull1D
Entries 86
Mean −0.01048
Std Dev 0.4187

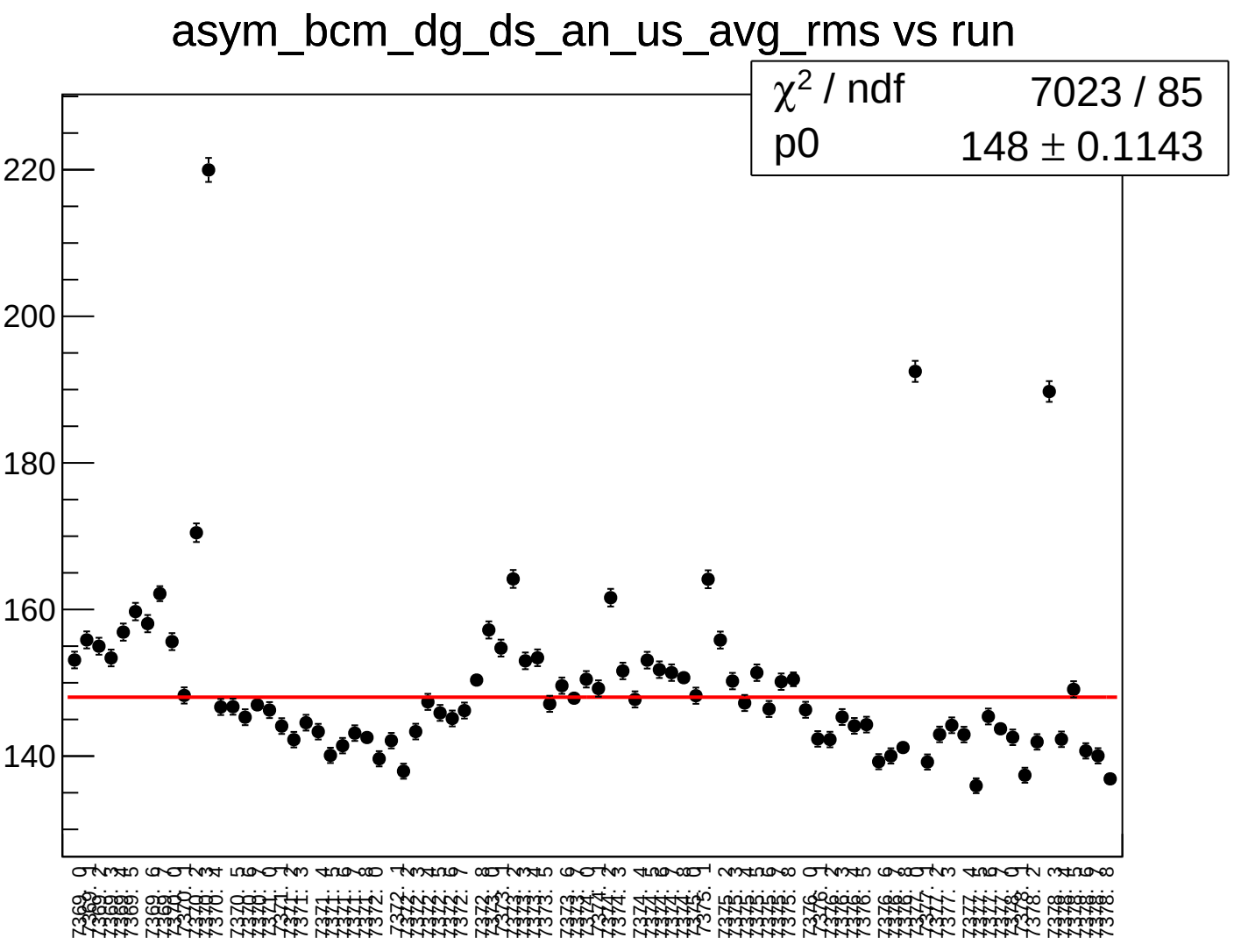

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 6832 / 85
p0 148.9 ± 0.115
220
200
180
160
140

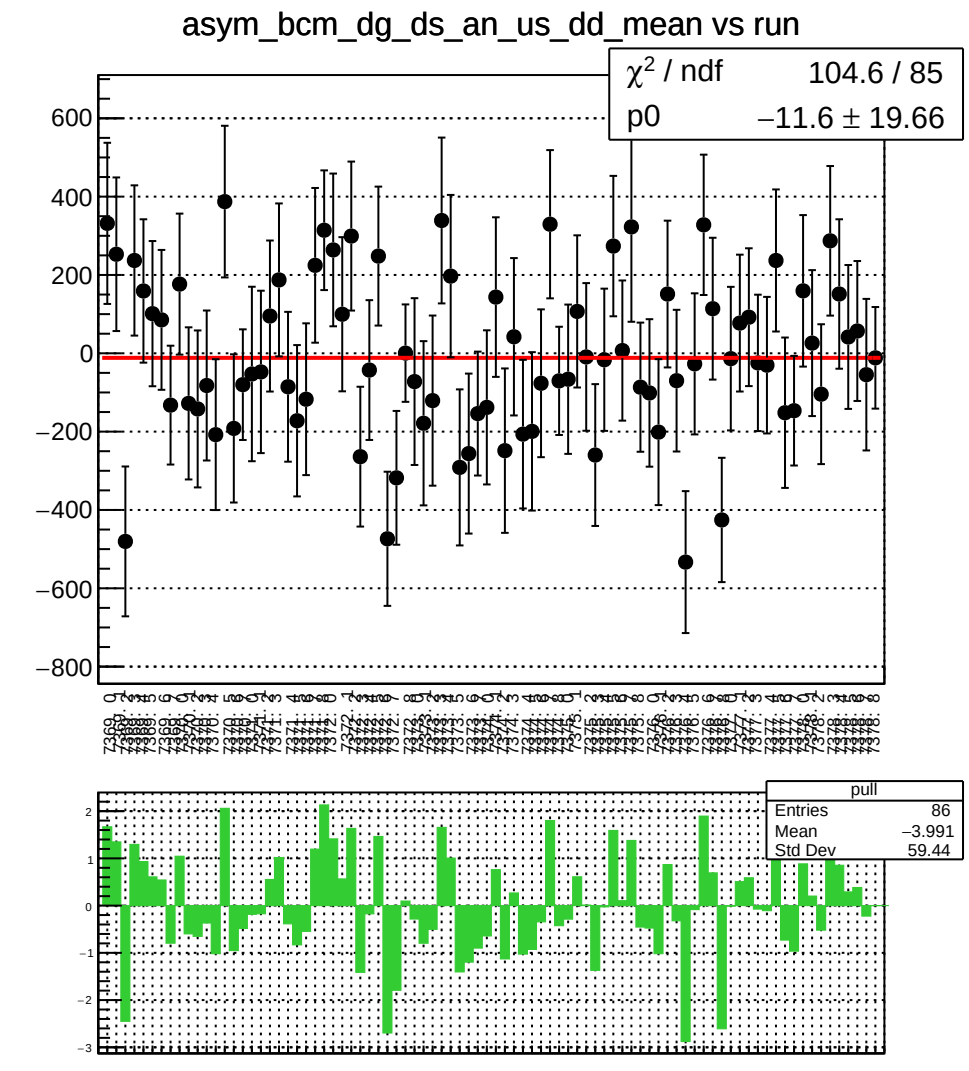

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 85.46 / 85
p0 −24.99 ± 25
pull
Entries 86
Mean −1.651e+04
Std Dev 0

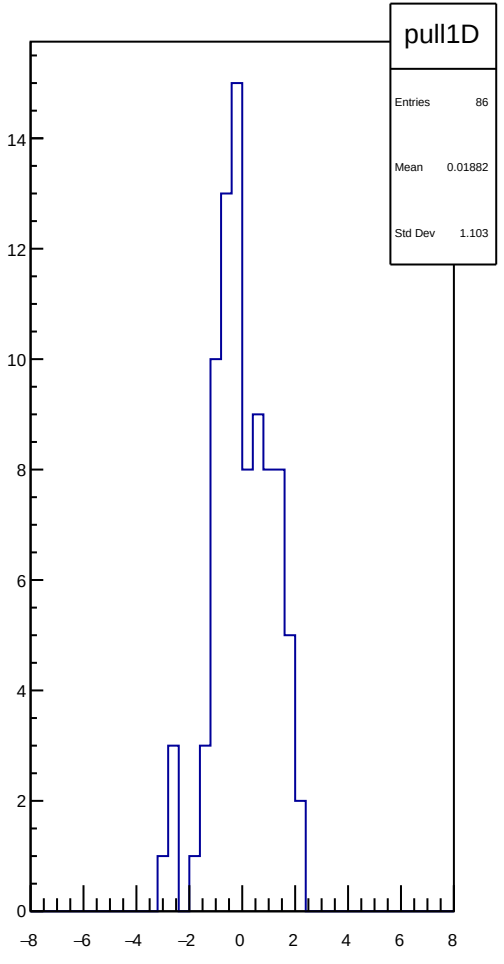

pull1D
Entries 86
Mean −0.000151
Std Dev 0.9968

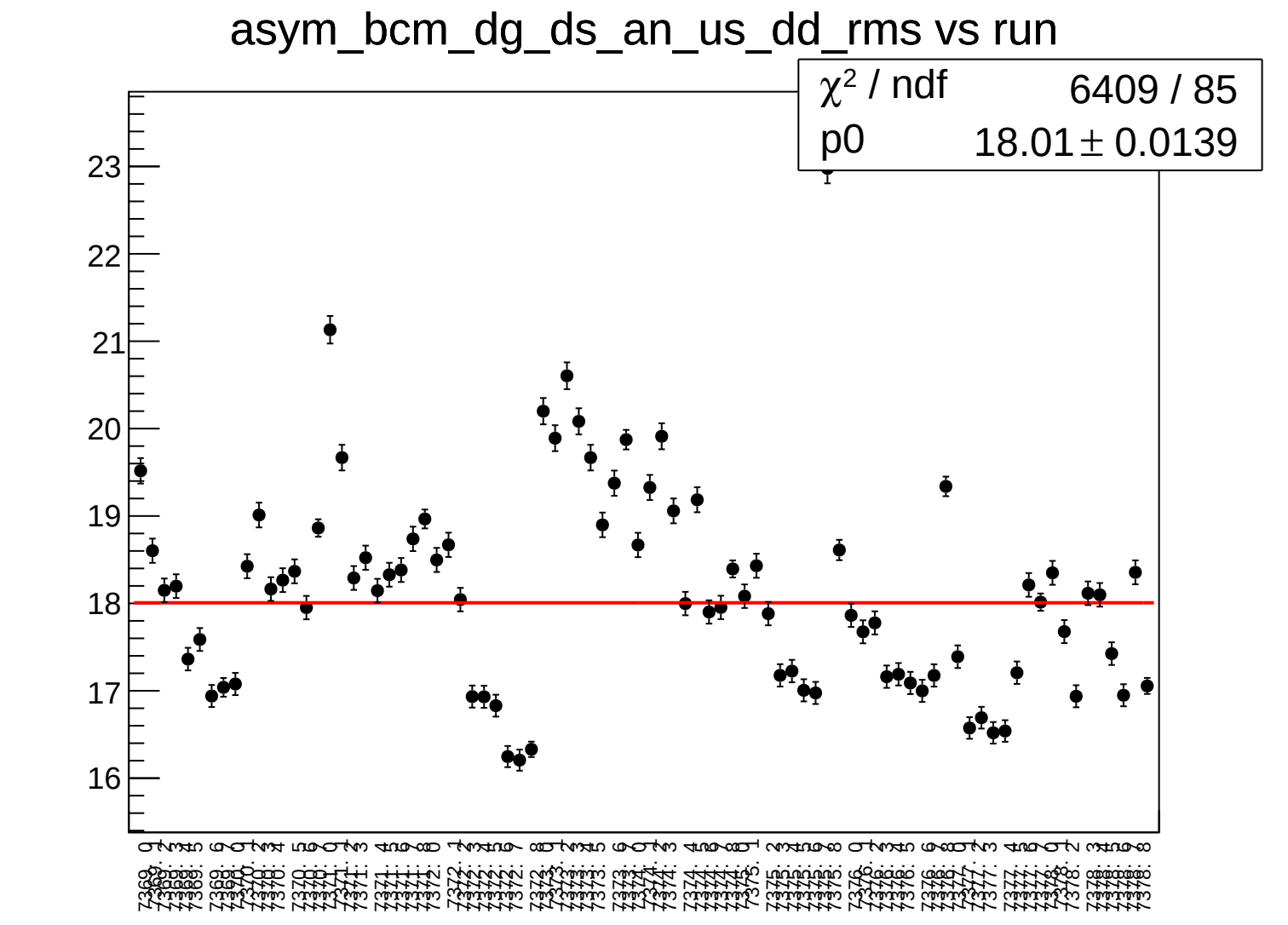

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1412 / 85
p0 22.93 ± 0.01768
28
27
26
25
24
23
22

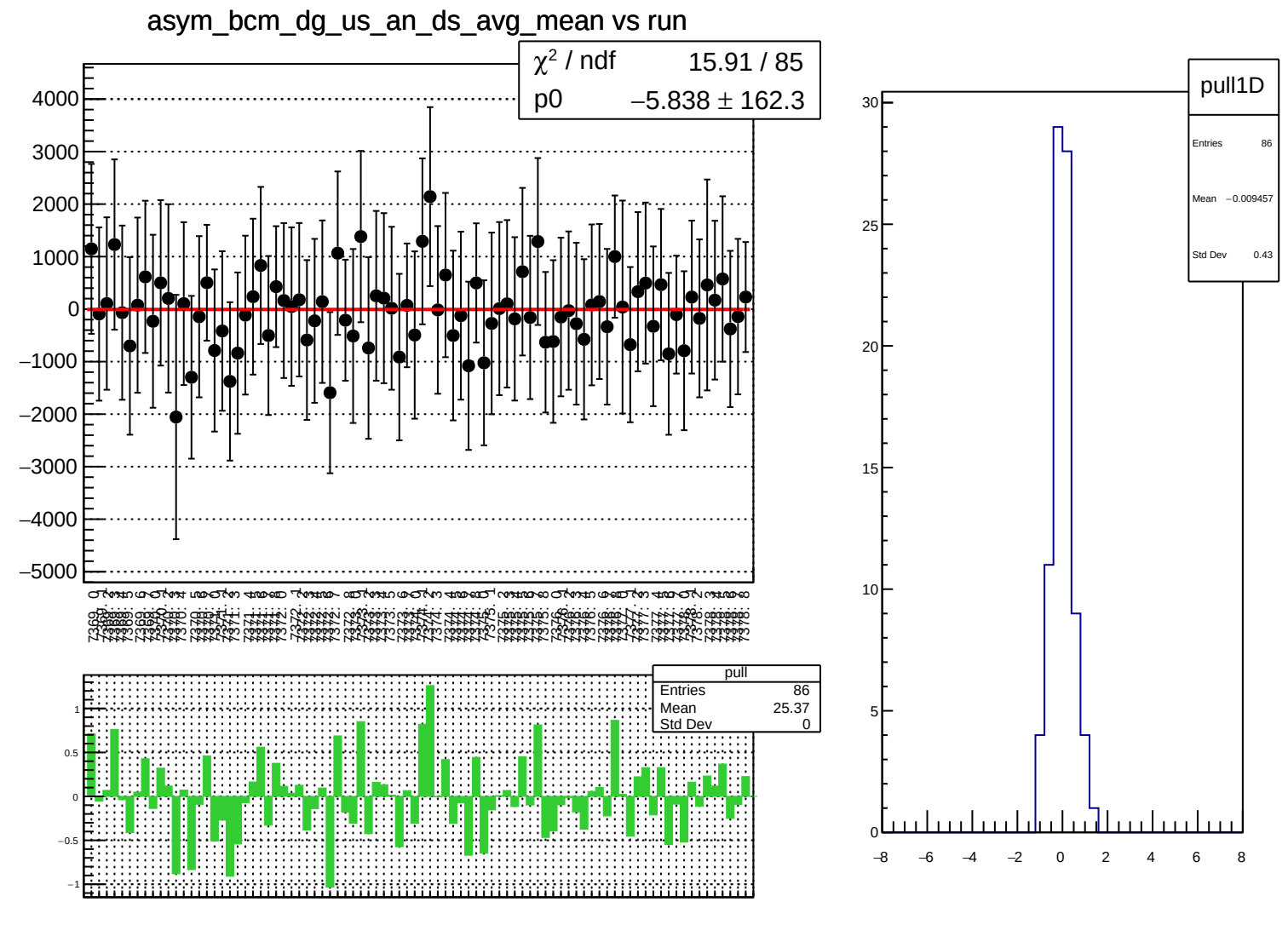

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 13.65 / 85
p0 19.27 ± 161.7
pull
Entries 86
Mean 70.19
Std Dev 0
pull1D
Entries 86
Mean −0.009233
Std Dev 0.3983

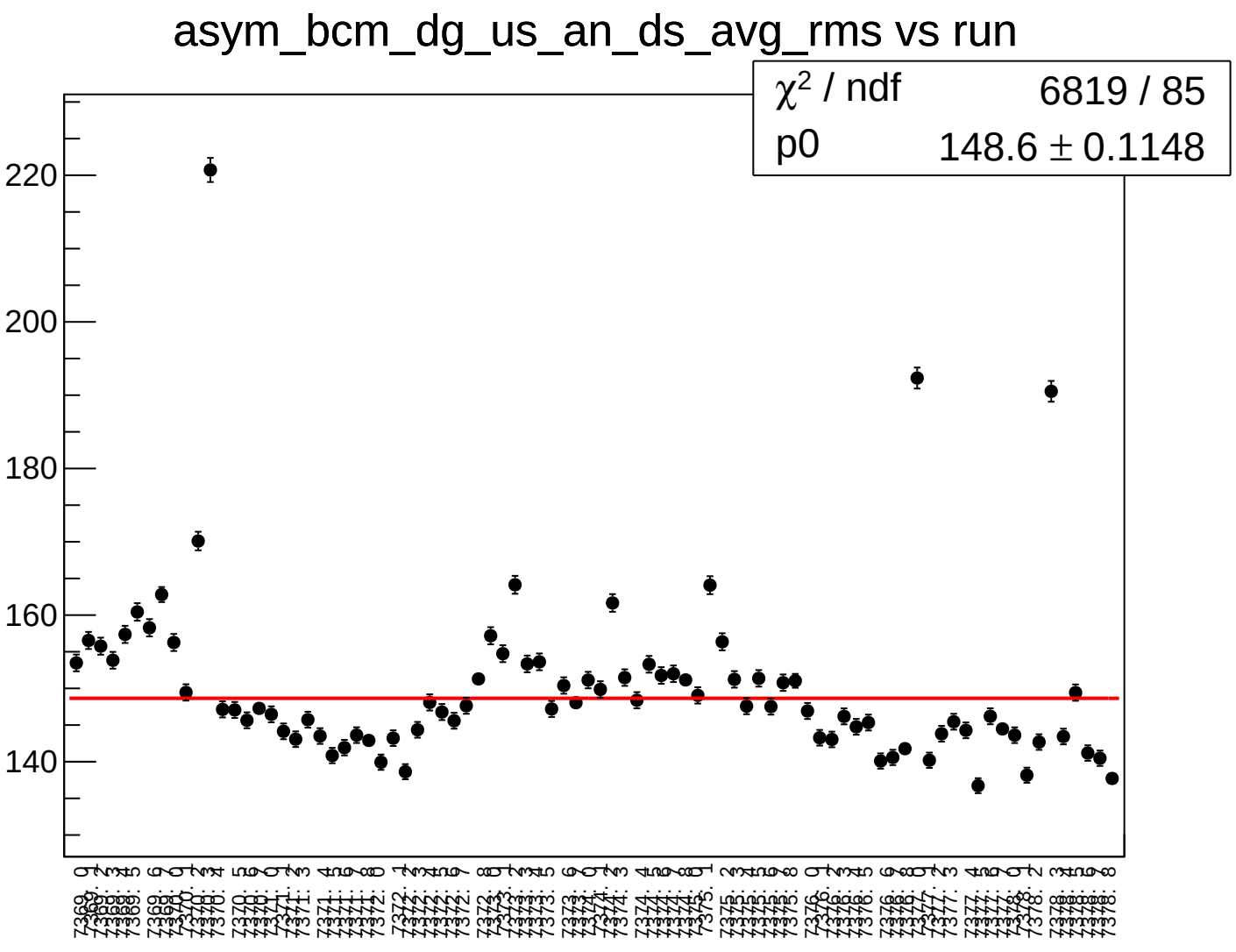

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 7023 / 85
p0 148 ± 0.1143
220
200
180
160
140

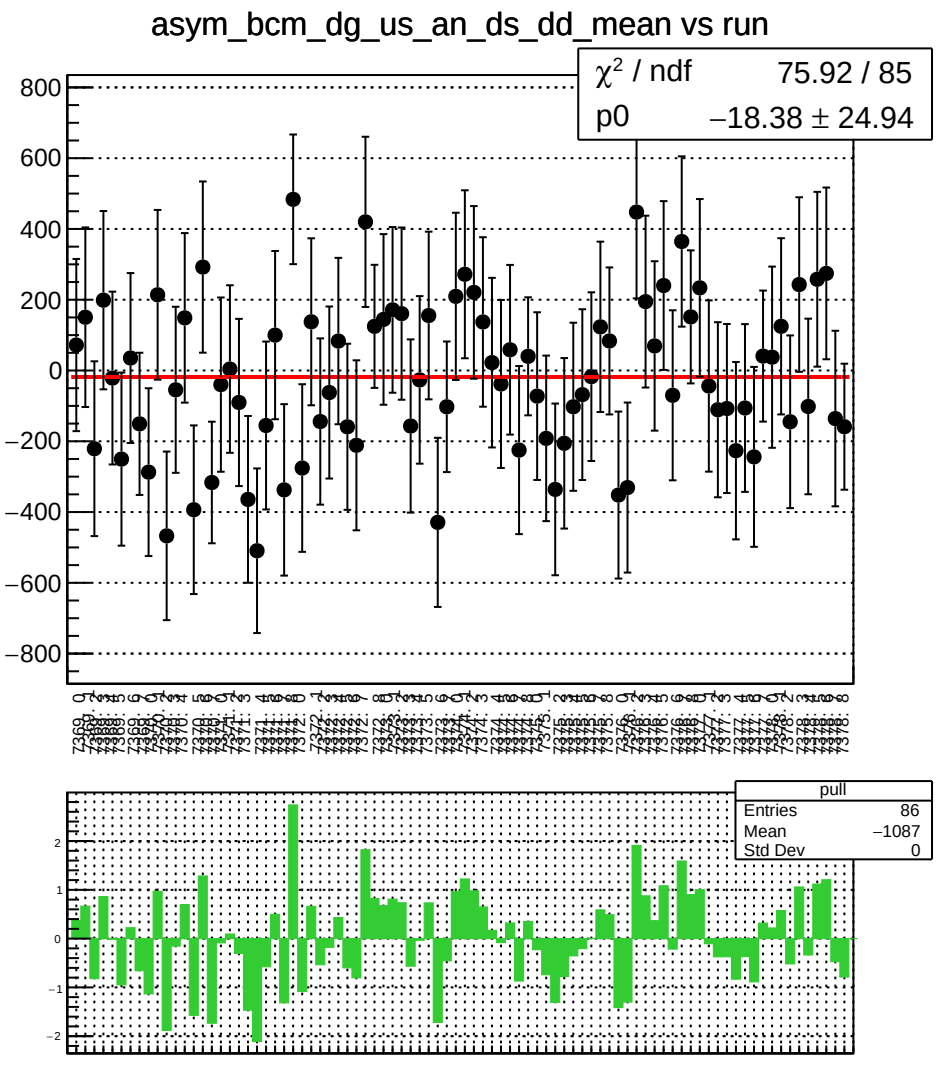

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 104.6 / 85
p0 −11.6 ± 19.66
pull
Entries 86
Mean −3.991
Std Dev 59.44

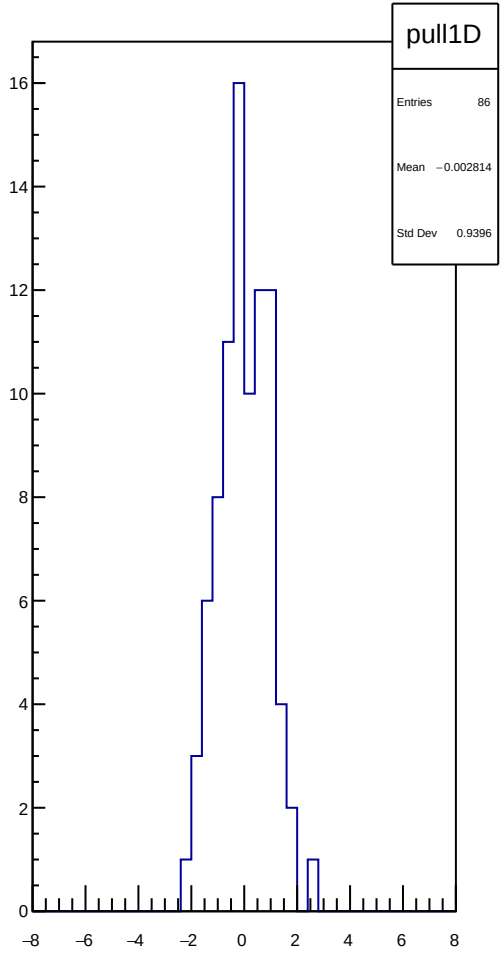

pull1D
Entries 86
Mean 0.01882
Std Dev 1.103

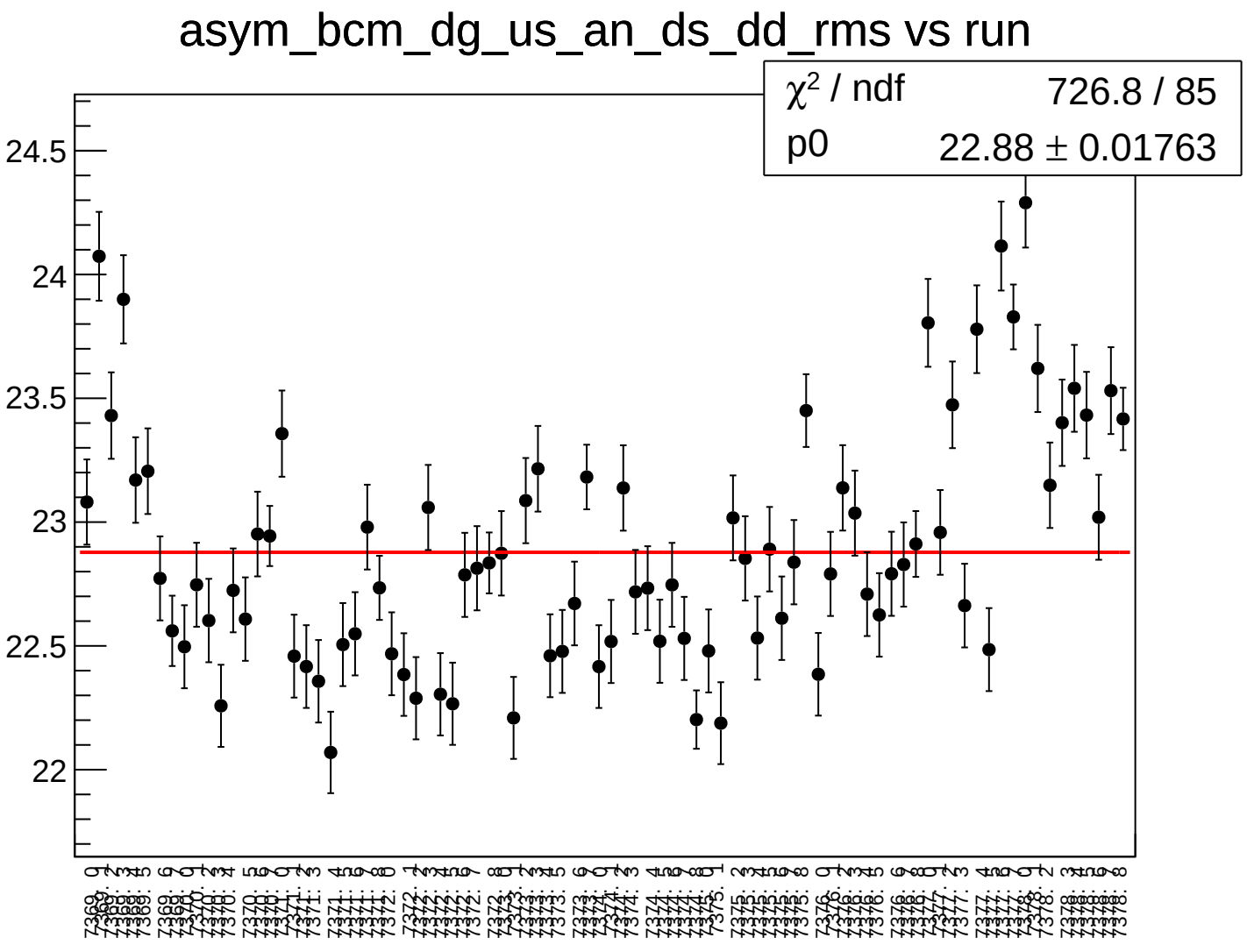

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 6409 / 85
p0 18.01 ± 0.0139
23
22
21
20
19
18
17
16

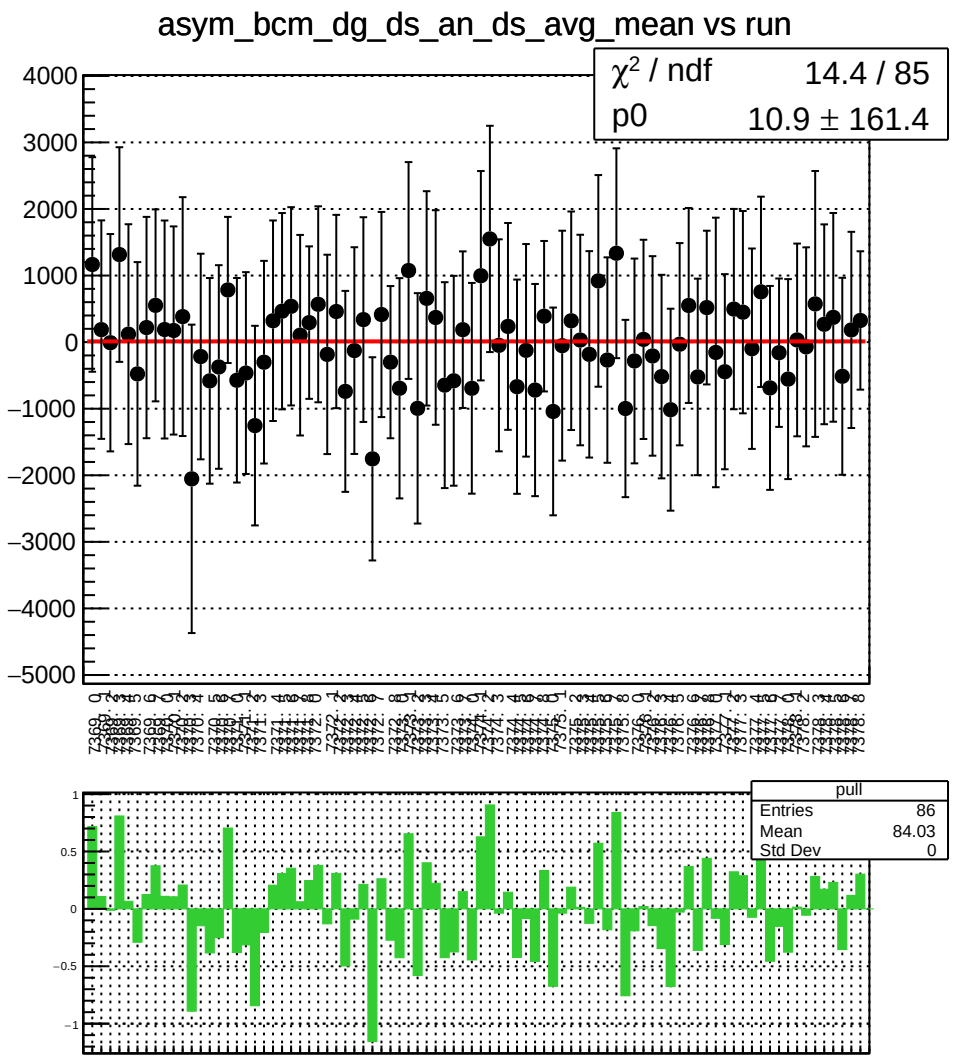

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 15.91 / 85
p0 −5.838 ± 162.3
pull
Entries 86
Mean 25.37
Std Dev 0
pull1D
Entries 86
Mean −0.009457
Std Dev 0.43

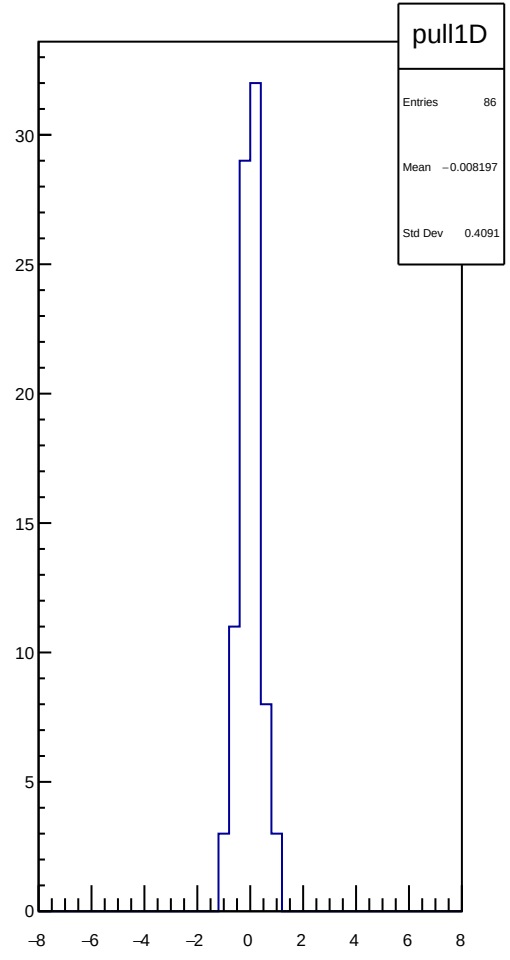

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 6819 / 85
p0 148.6 ± 0.1148
220
200
180
160
140

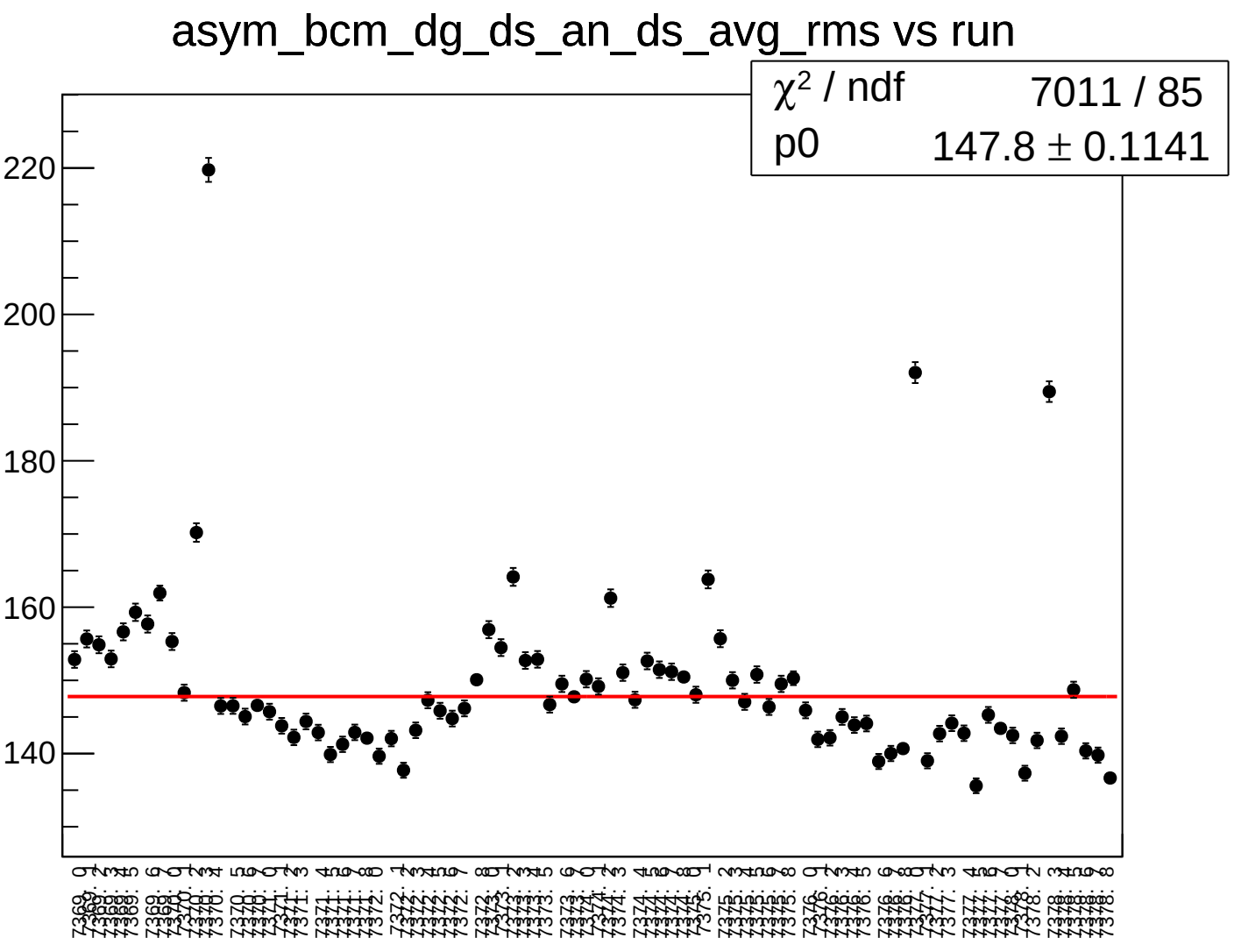

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 75.92 / 85
p0 −18.38 ± 24.94
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 86
Mean −1087
Std Dev 0
2
1
0
−1
−2

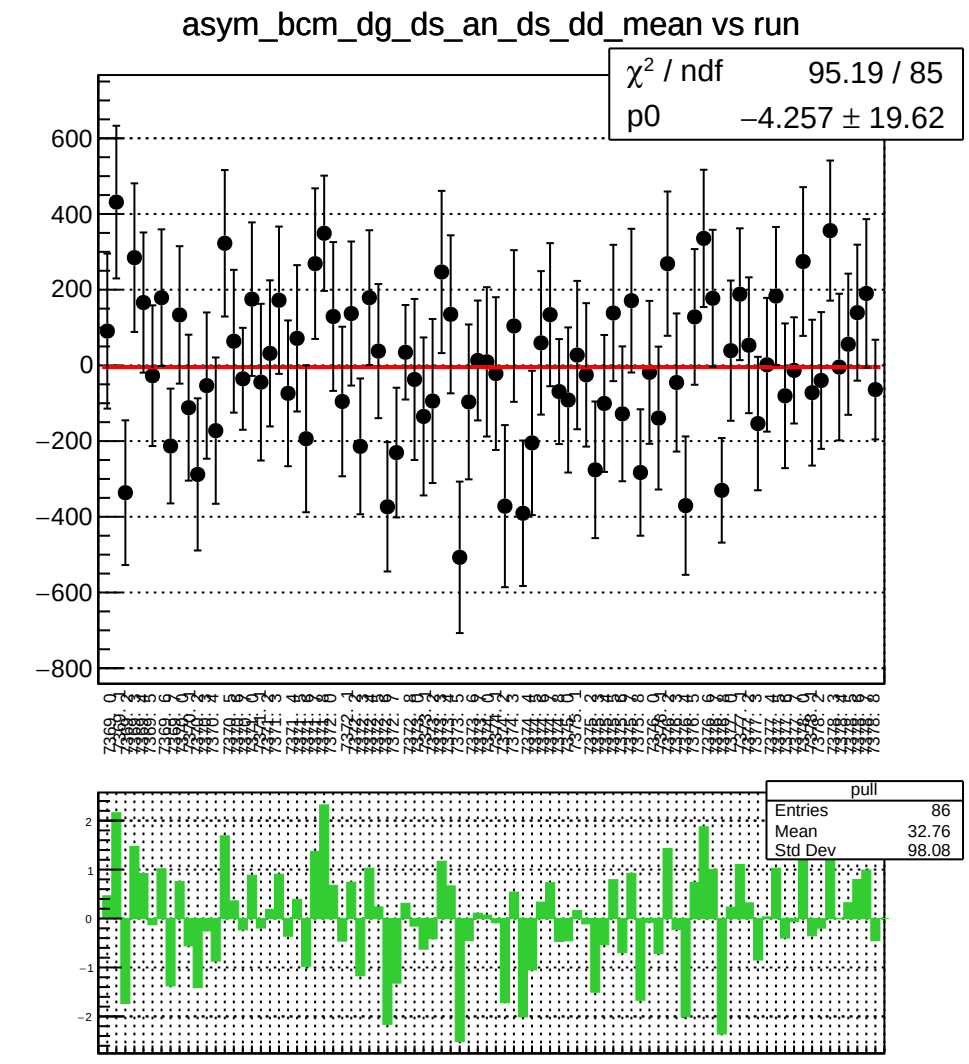

pull1D
Entries 86
Mean −0.002814
Std Dev 0.9396
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

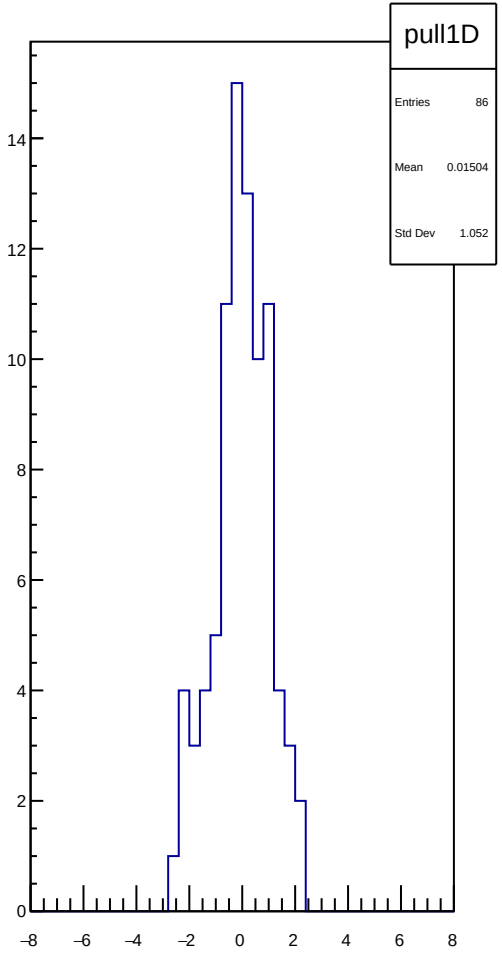

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 726.8 / 85
p0 22.88 ± 0.01763
24.5
24
23.5
23
22.5
22

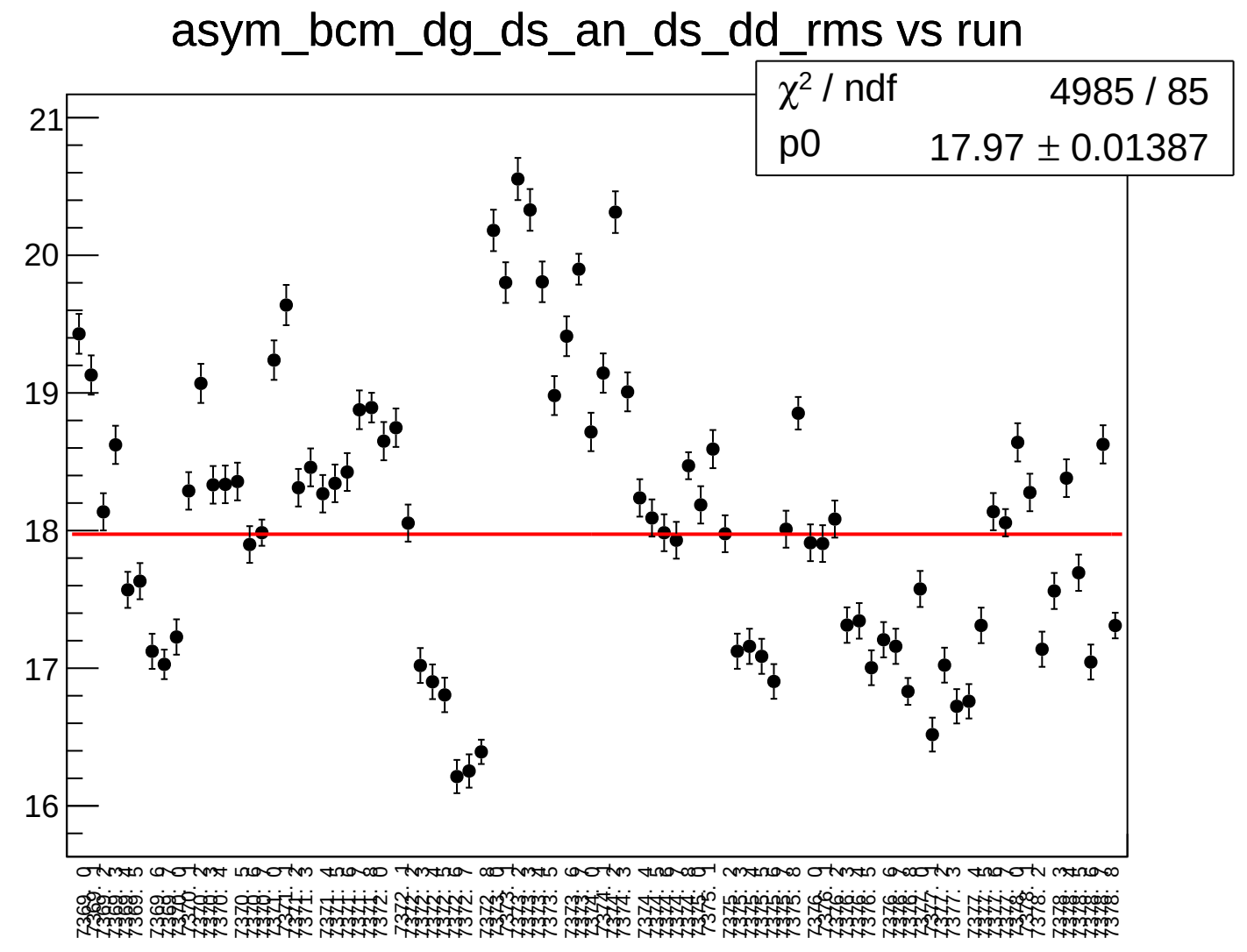

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 14.4 / 85
p0 10.9 ± 161.4
pull
Entries 86
Mean 84.03
Std Dev 0

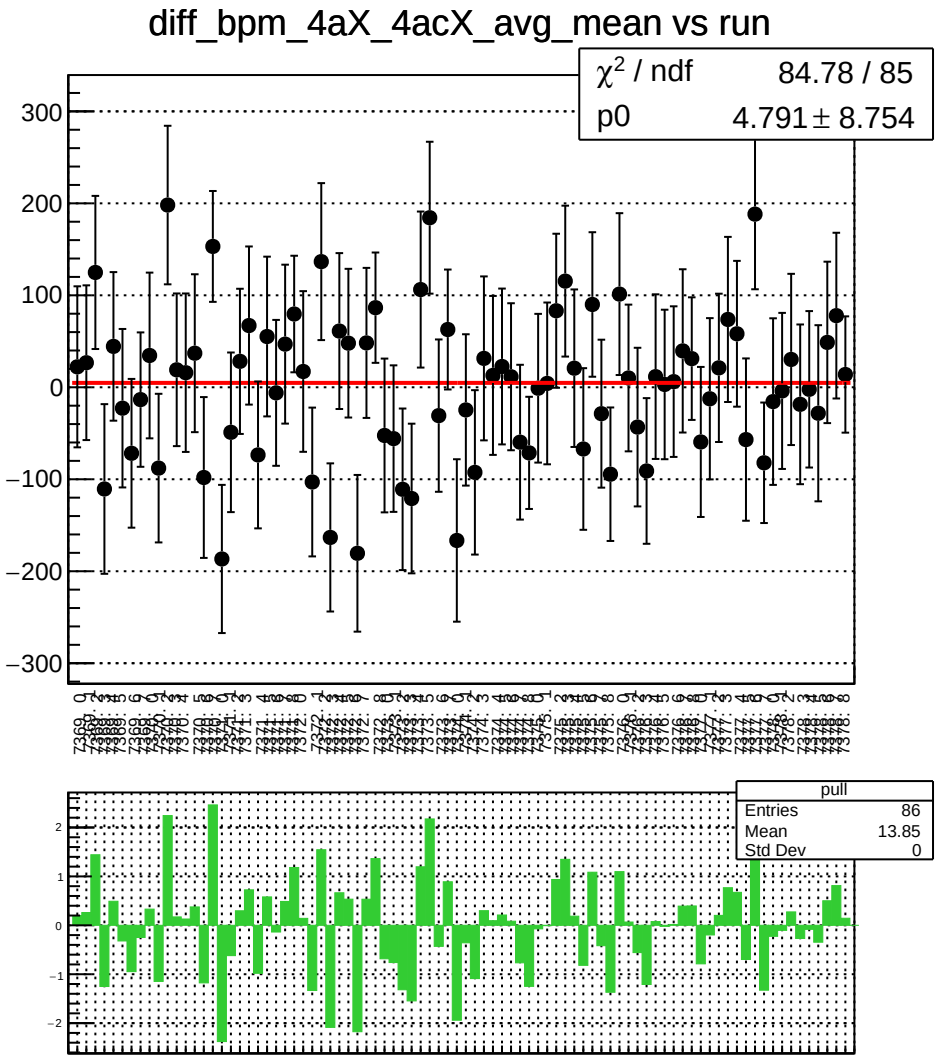

pull1D
Entries 86
Mean −0.008197
Std Dev 0.4091

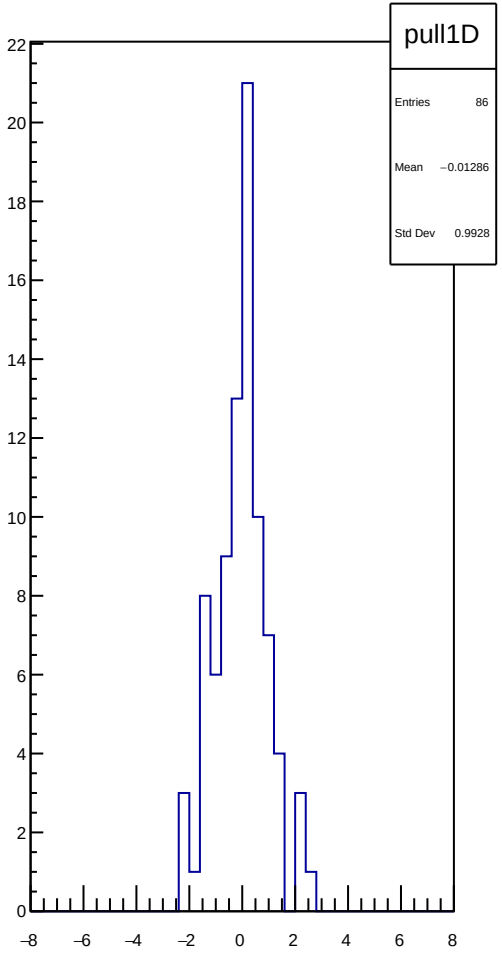

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 7011 / 85
p0 147.8 ± 0.1141
220
200
180
160
140

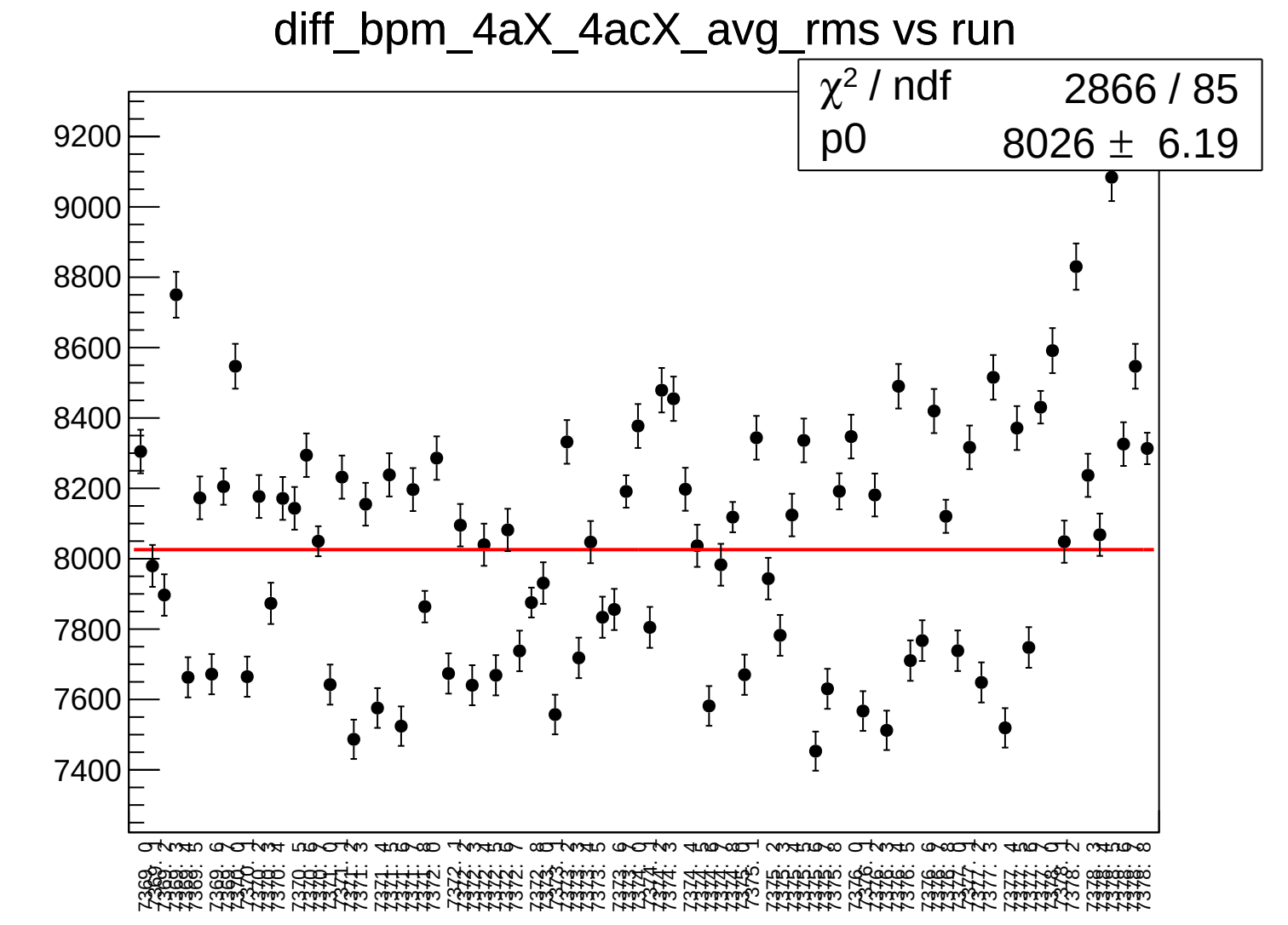

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 95.19 / 85
p0 −4.257 ± 19.62
pull
Entries 86
Mean 32.76
Std Dev 98.08

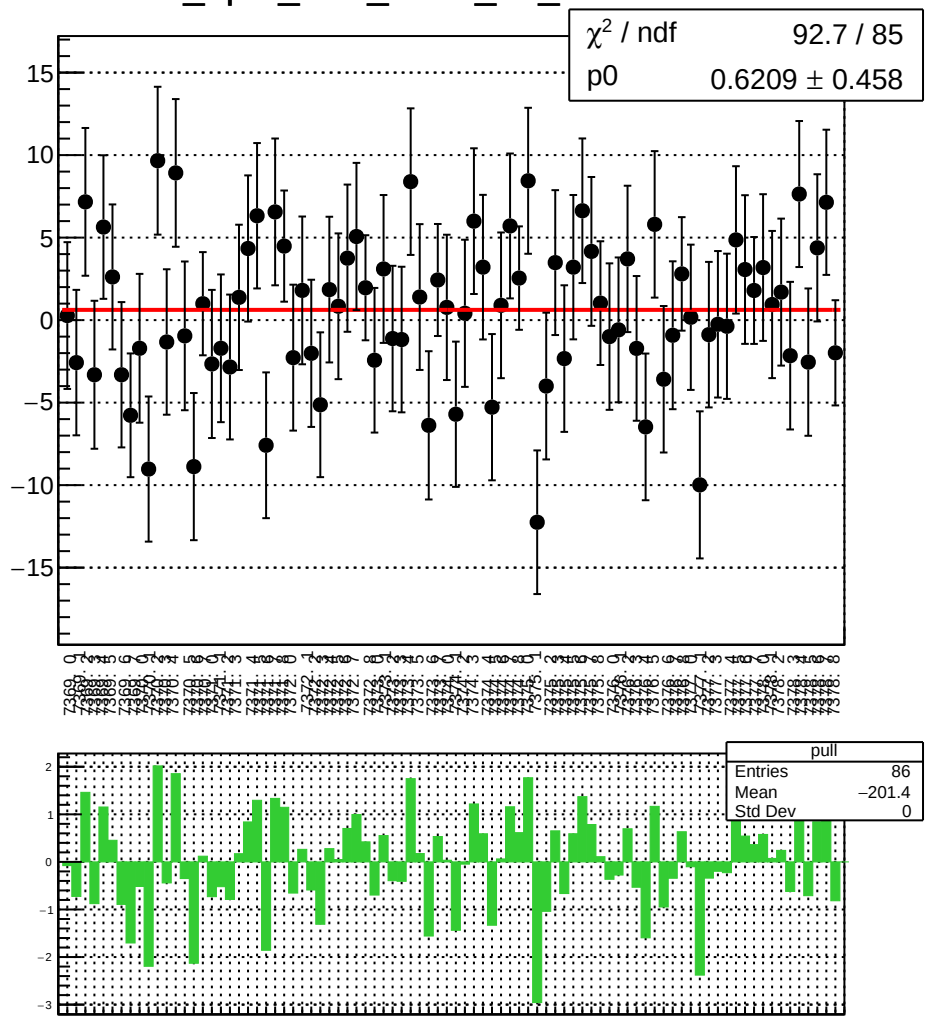

pull1D
Entries 86
Mean 0.01504
Std Dev 1.052

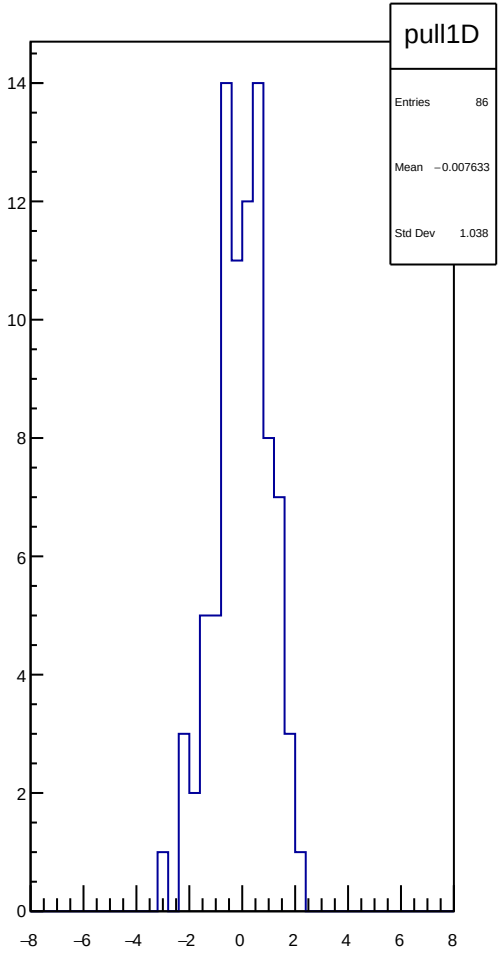

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 4985 / 85
p0 17.97 ± 0.01387
21
20
19
18
17
16

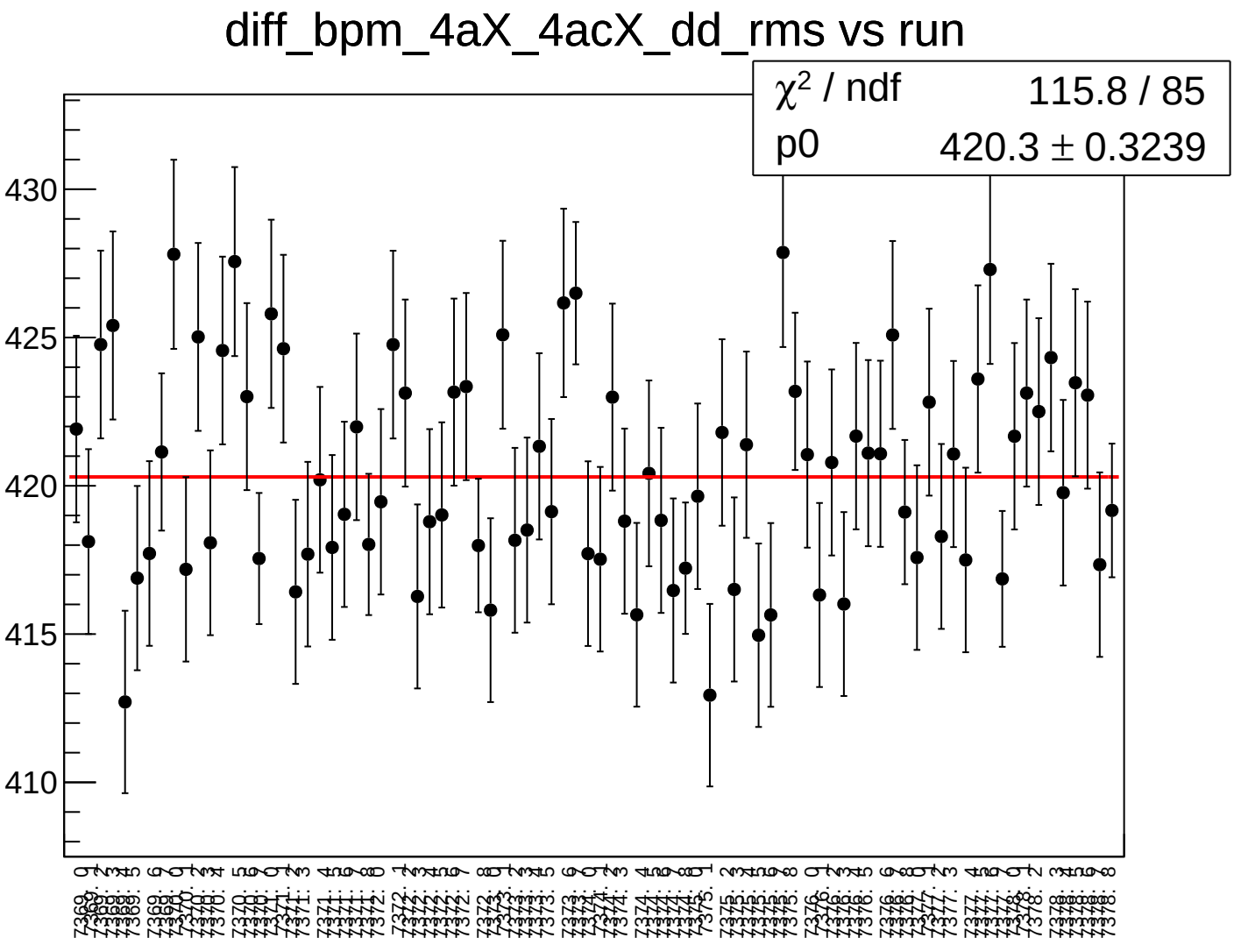

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 84.78 / 85
p0 4.791 ± 8.754
pull
Entries 86
Mean 13.85
Std Dev 0

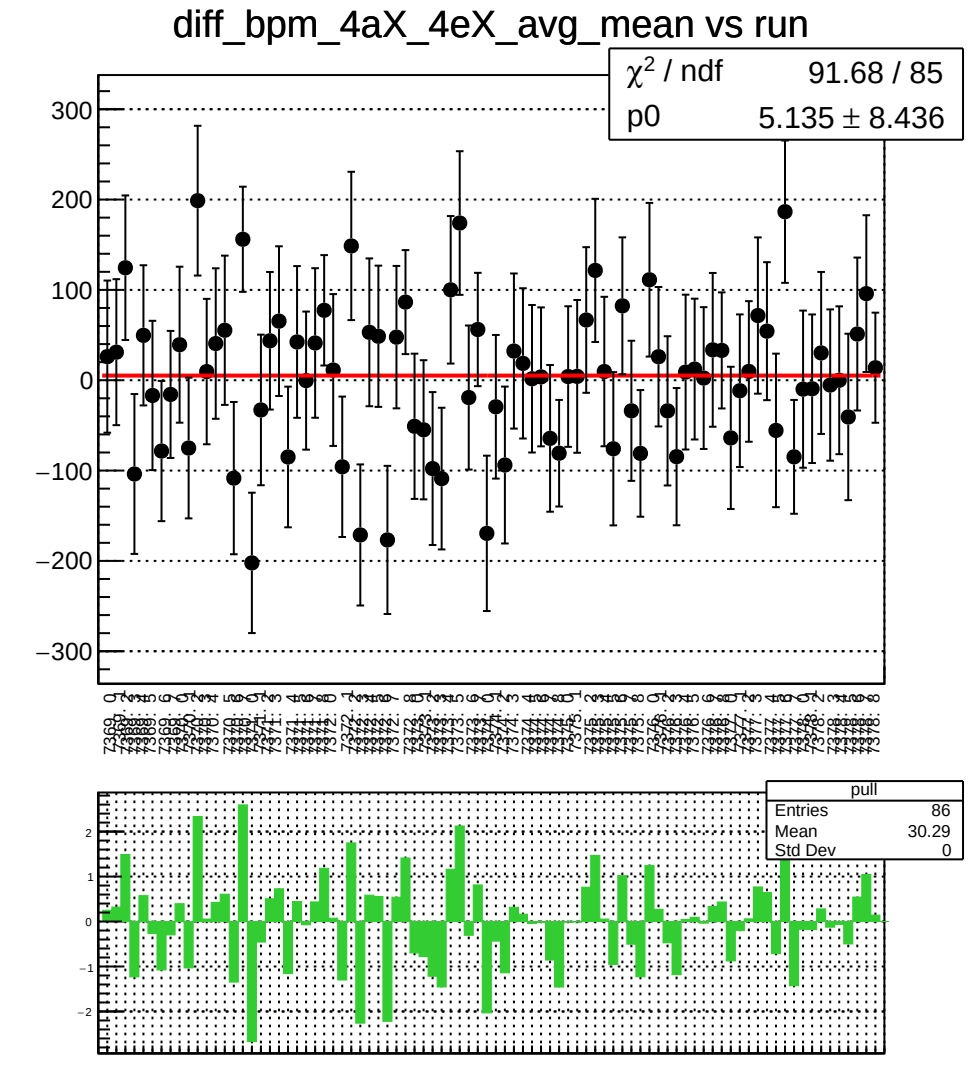

pull1D
Entries 86
Mean −0.01286
Std Dev 0.9928

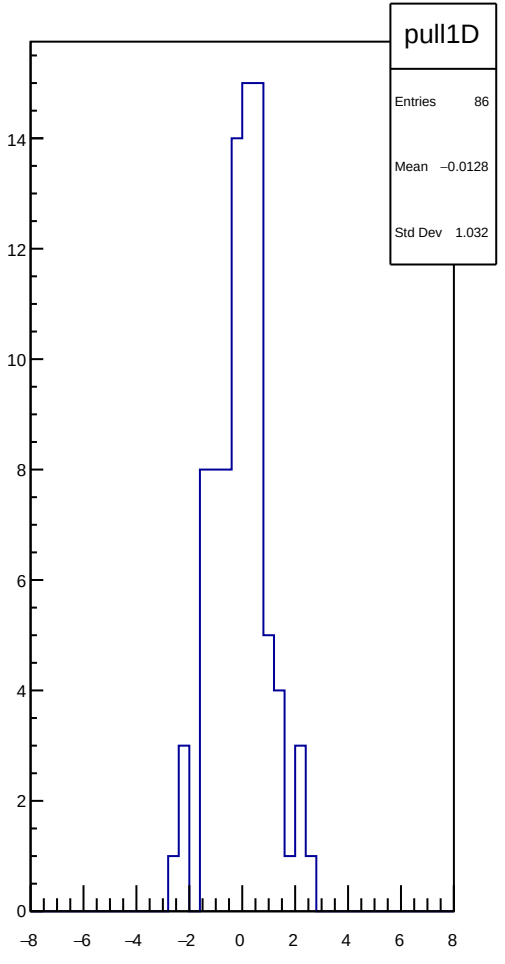

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2866 / 85
p0 8026 ± 6.19
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

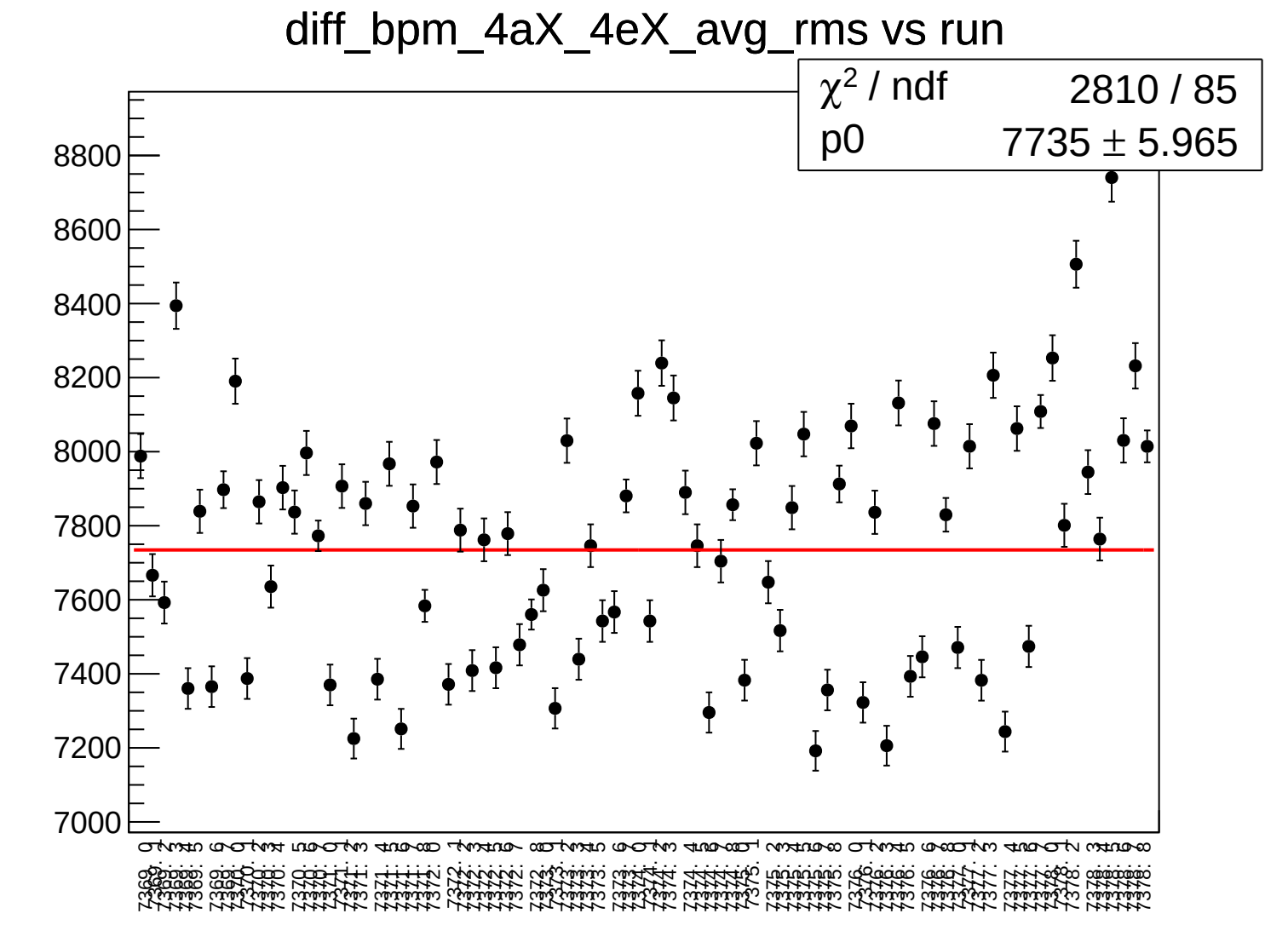

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 92.7 / 85
p0 0.6209 ± 0.458
pull
Entries 86
Mean −201.4
Std Dev 0

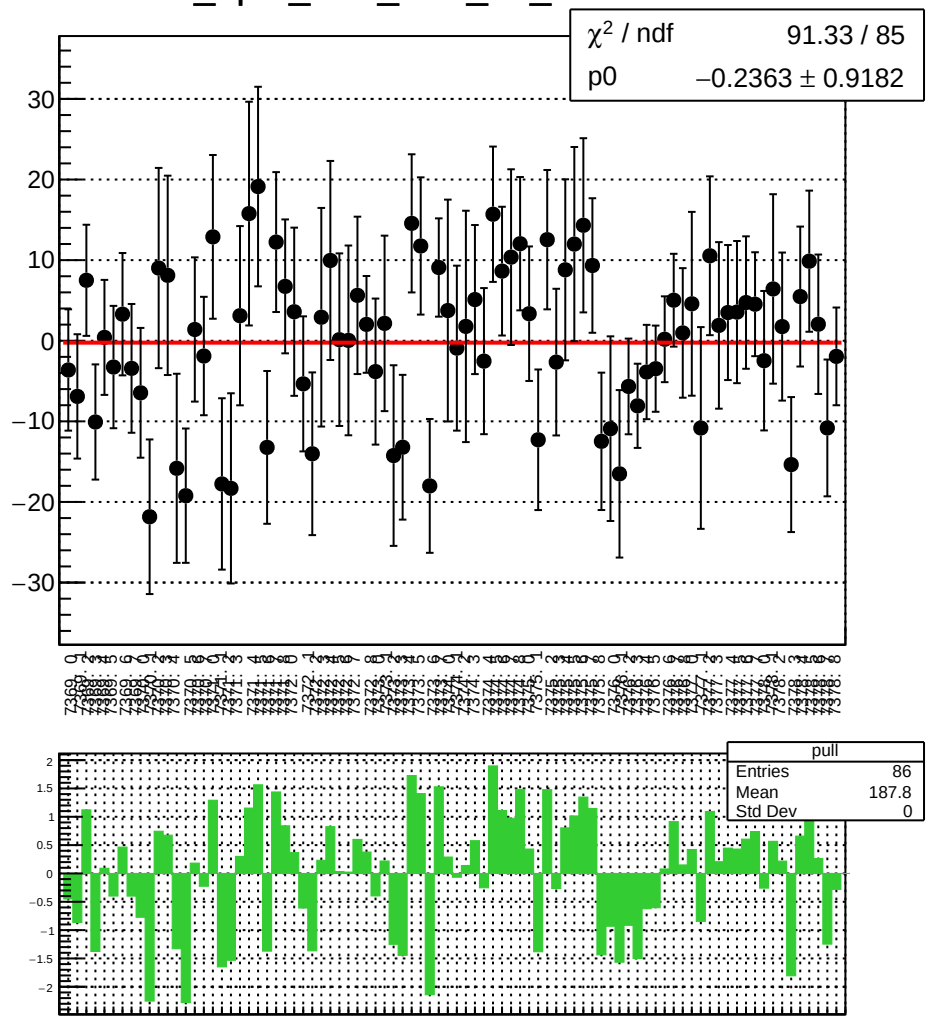

pull1D
Entries 86
Mean −0.007633
Std Dev 1.038

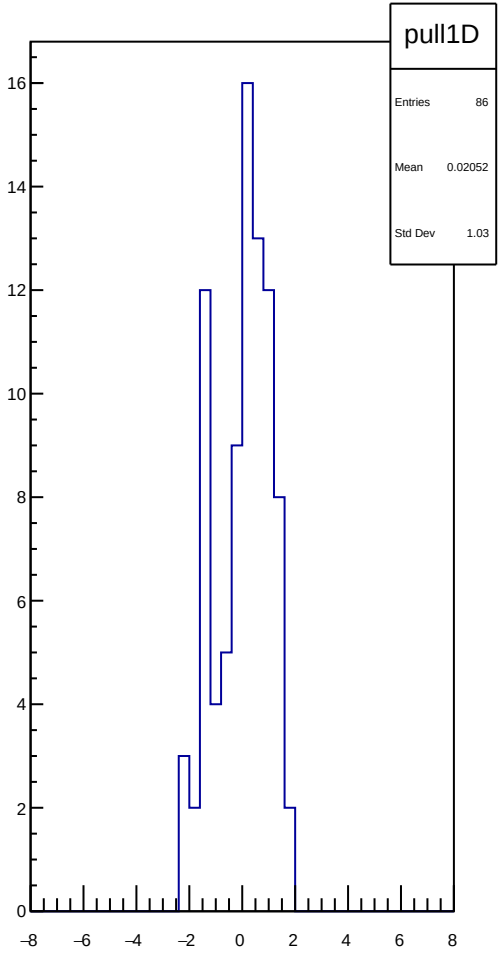

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 115.8 / 85
p0 420.3 ± 0.3239
430
425
420
415
410

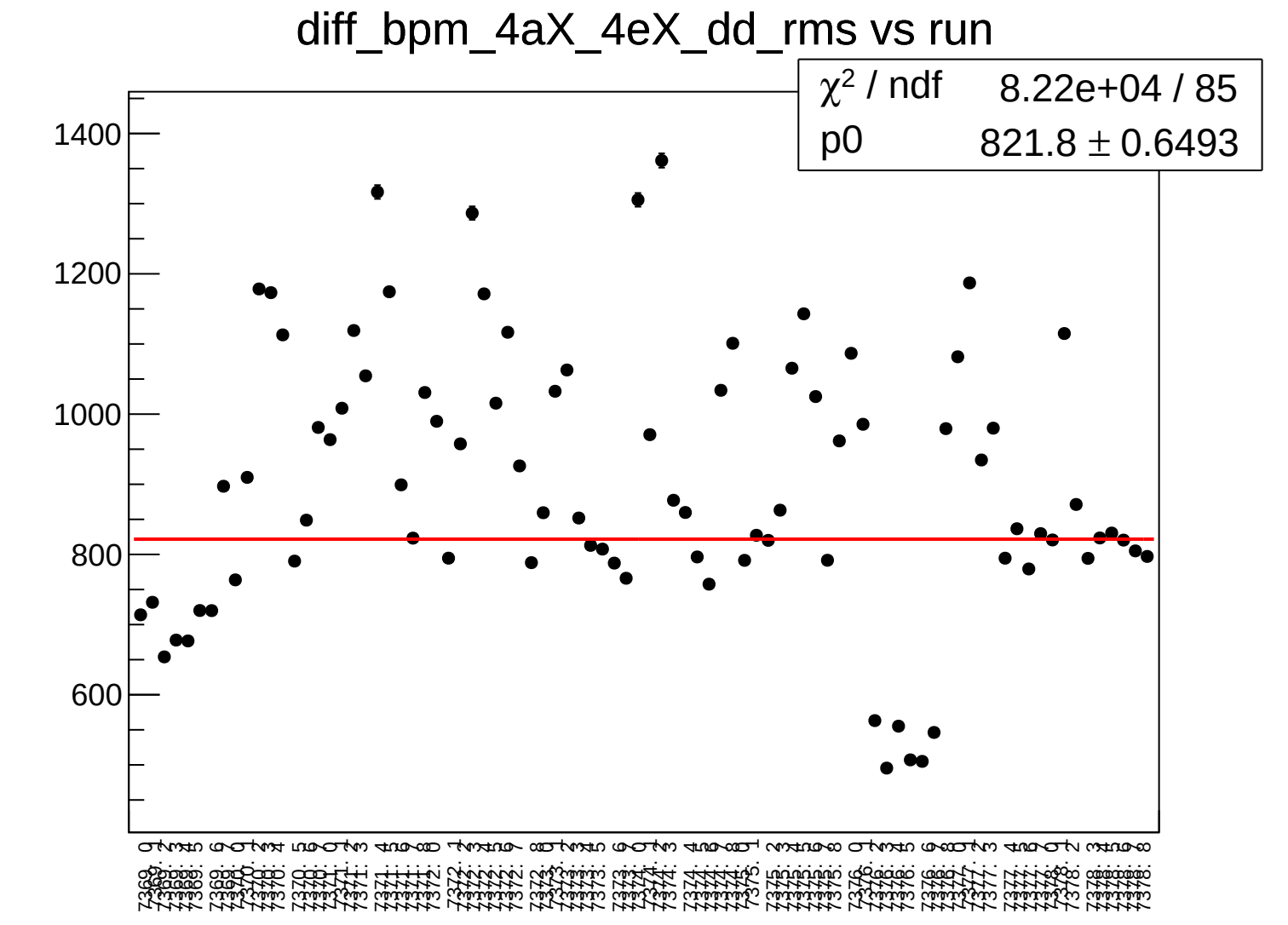

diff_bpm_4aX_4eX_avg_mean vs run
χ^2 / ndf 91.68 / 85
p0 5.135 ± 8.436
pull
Entries 86
Mean 30.29
Std Dev 0

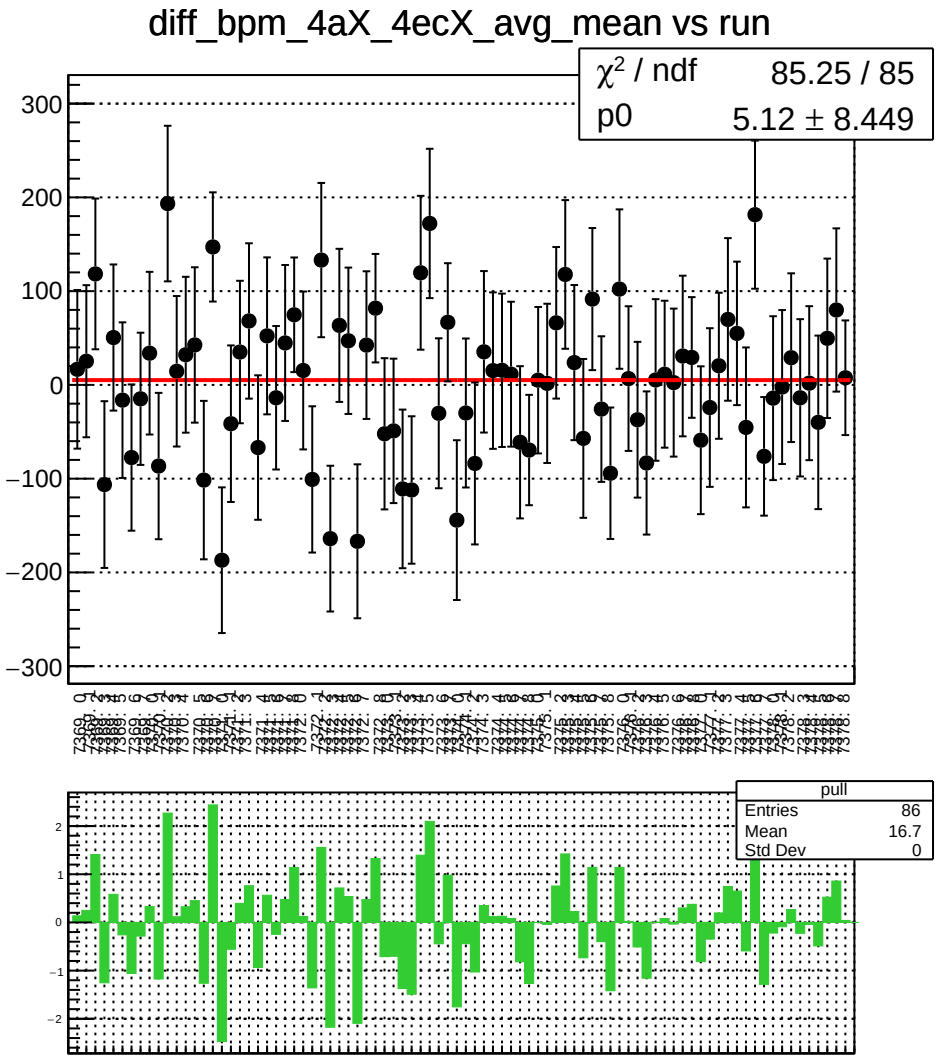

pull1D
Entries 86
Mean −0.0128
Std Dev 1.032

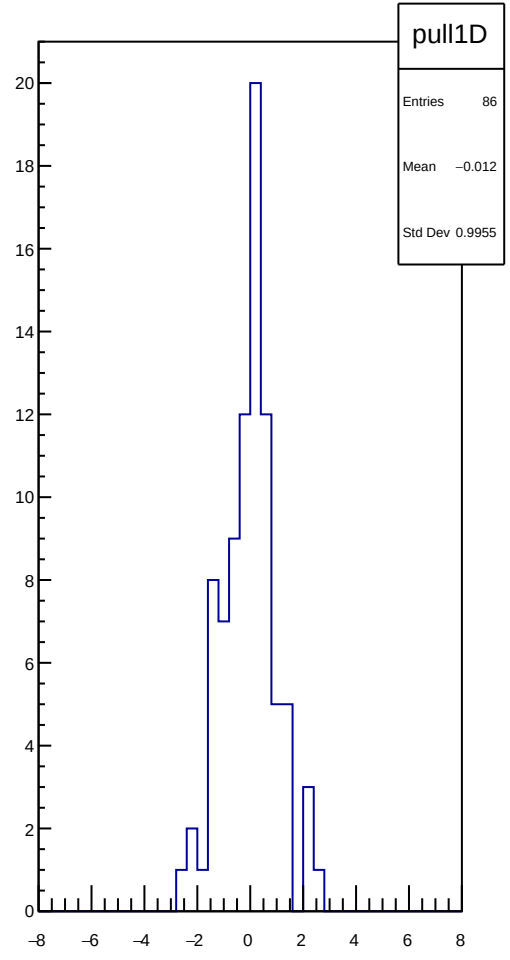

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2810 / 85
p0 7735 ± 5.965
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

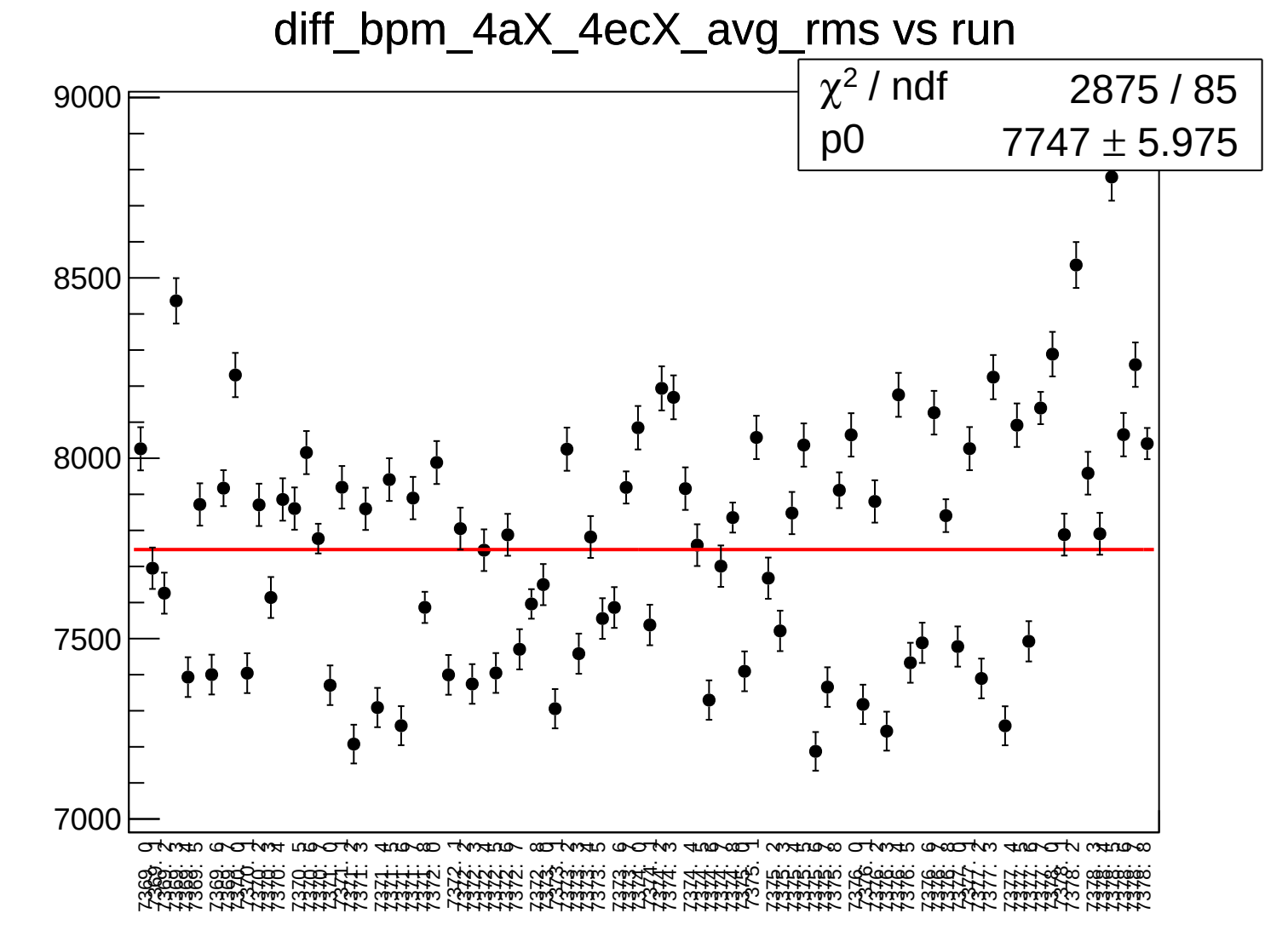

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 91.33 / 85
p0 −0.2363 ± 0.9182
pull
Entries 86
Mean 187.8
Std Dev 0

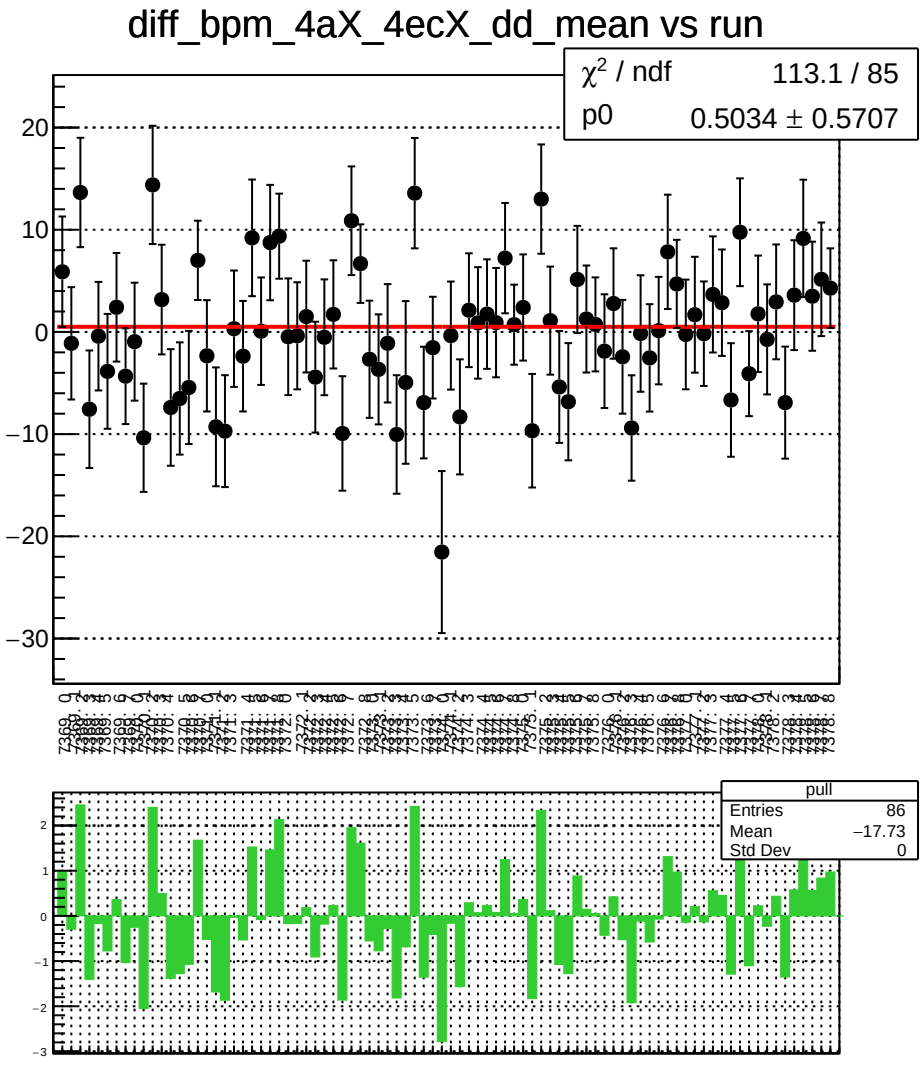

pull1D
Entries 86
Mean 0.02052
Std Dev 1.03

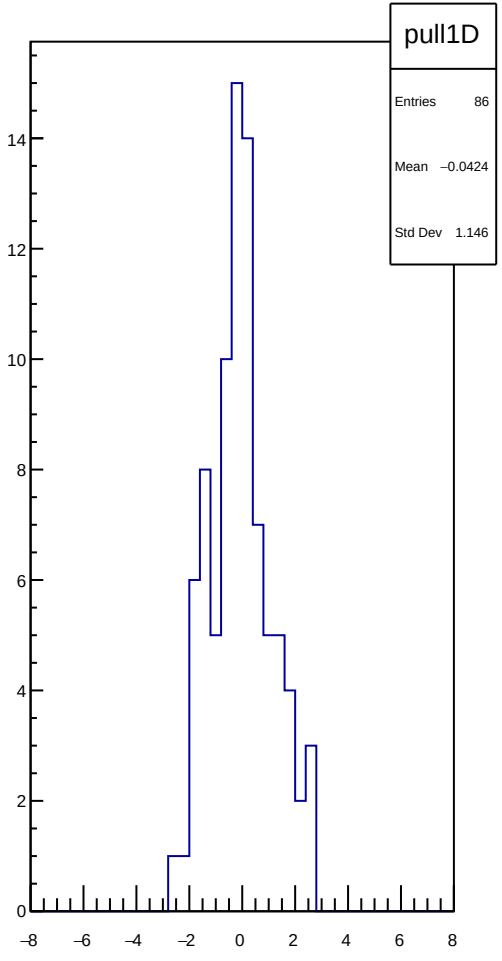

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 8.22e+04 / 85
p0 821.8 ± 0.6493
1400
1200
1000
800
600

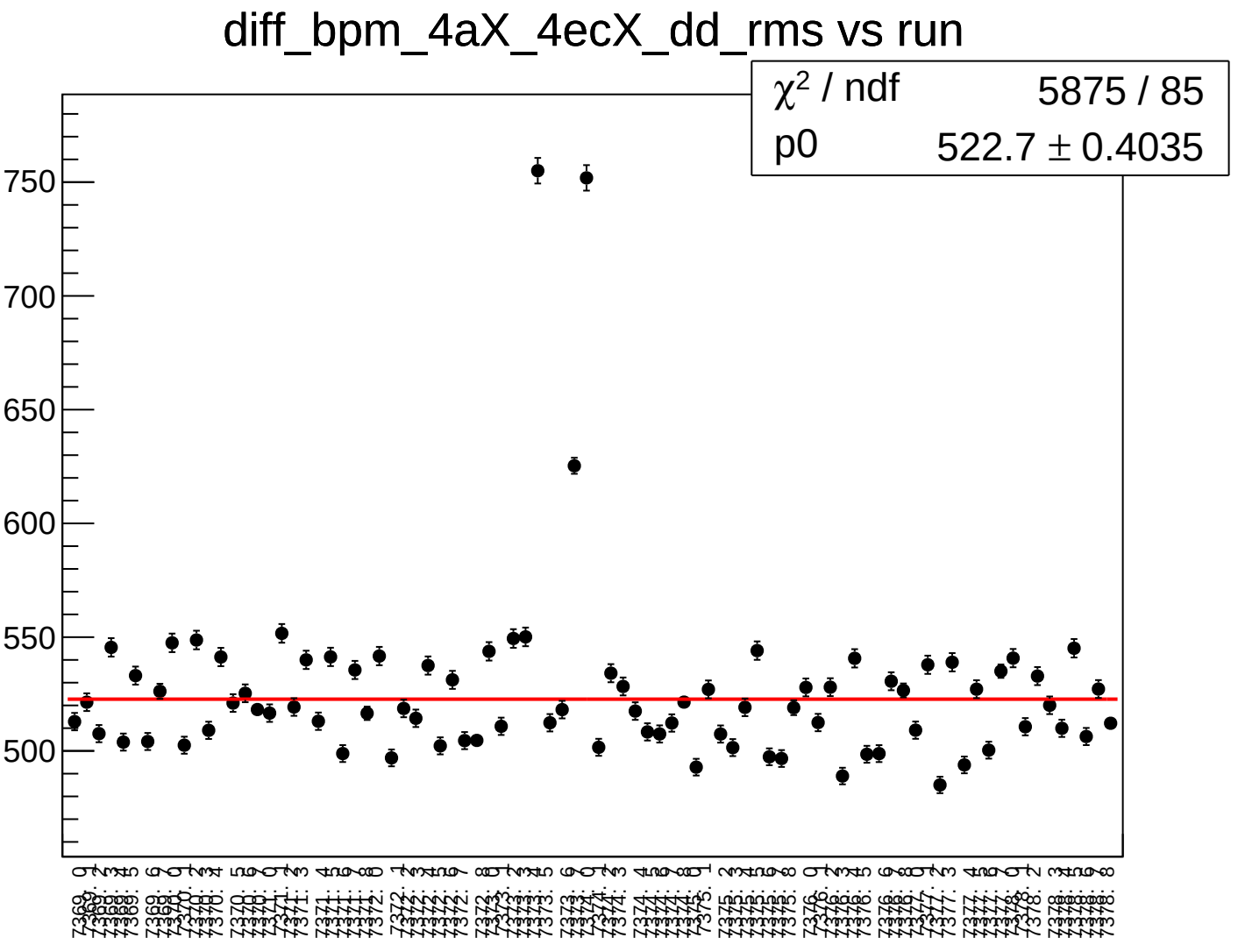

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 85.25 / 85
p0 5.12 ± 8.449
pull
Entries 86
Mean 16.7
Std Dev 0

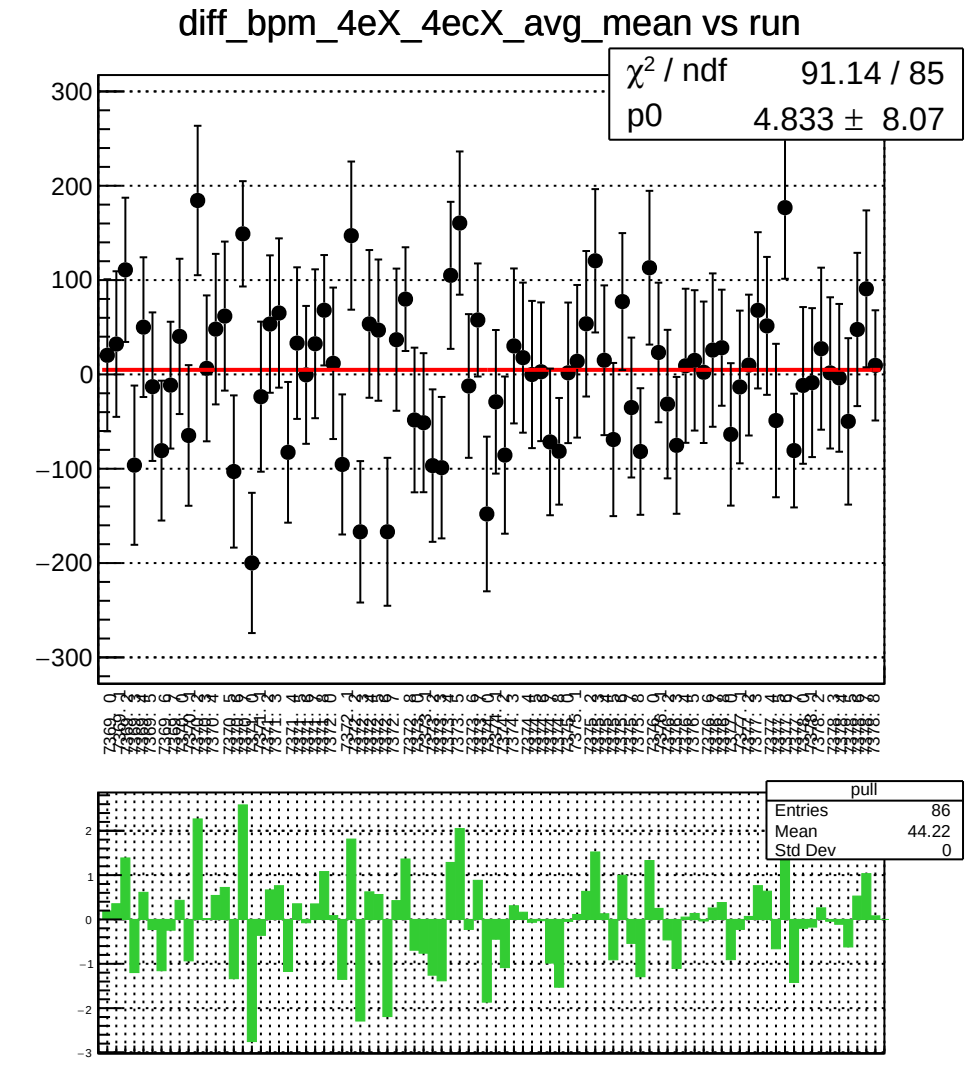

pull1D
Entries 86
Mean −0.012
Std Dev 0.9955

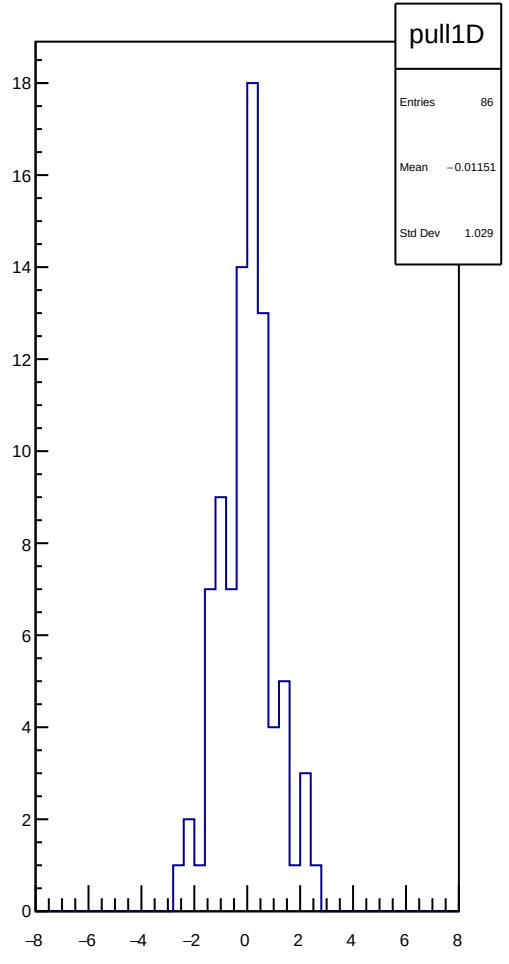

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2875 / 85
p0 7747 ± 5.975
9000
8500
8000
7500
7000

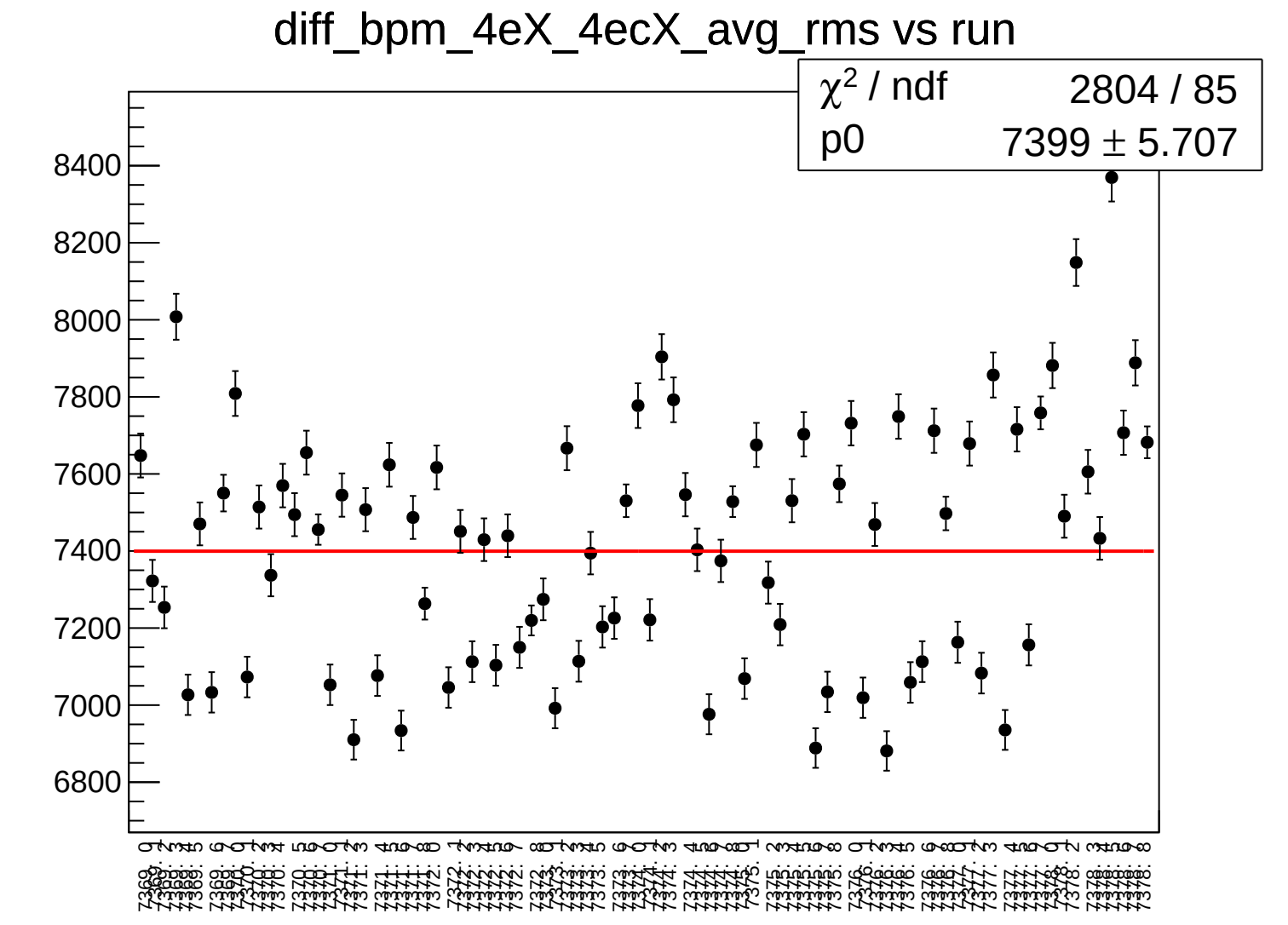

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 113.1 / 85
p0 0.5034 ± 0.5707
pull
Entries 86
Mean −17.73
Std Dev 0

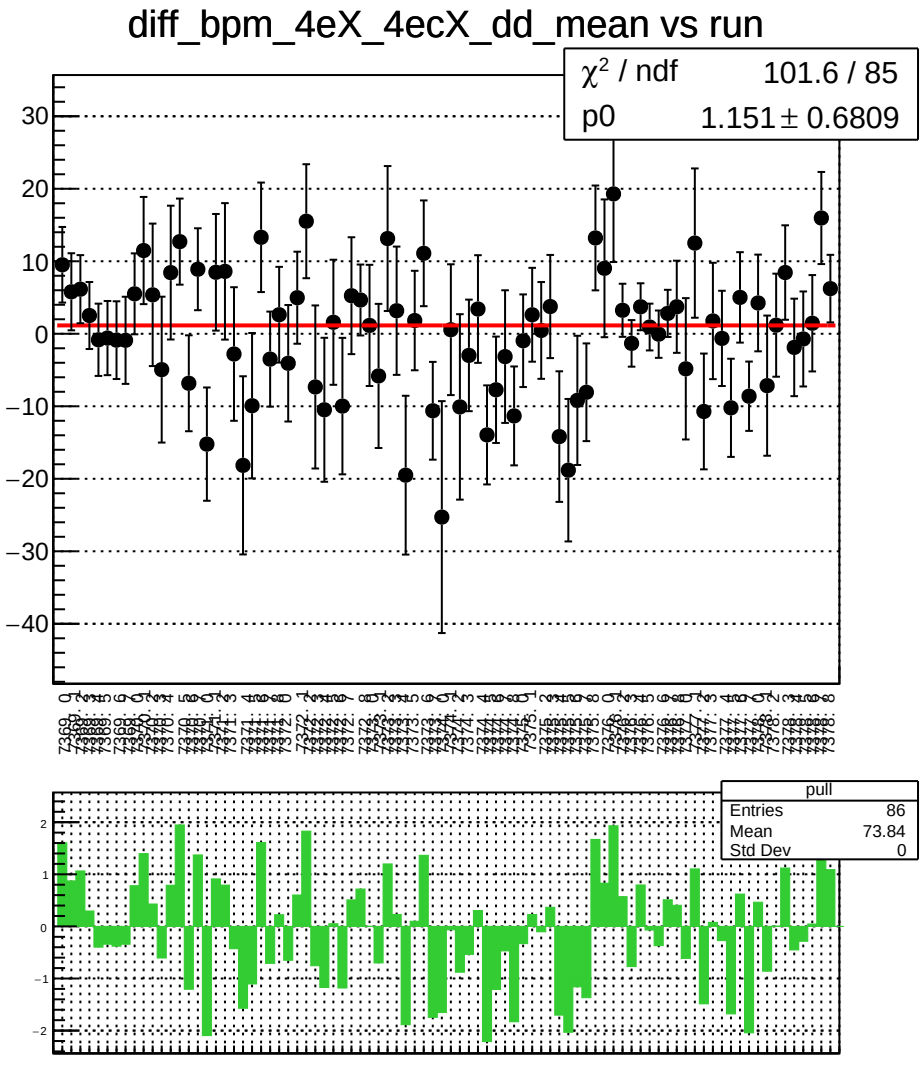

pull1D
Entries 86
Mean −0.0424
Std Dev 1.146

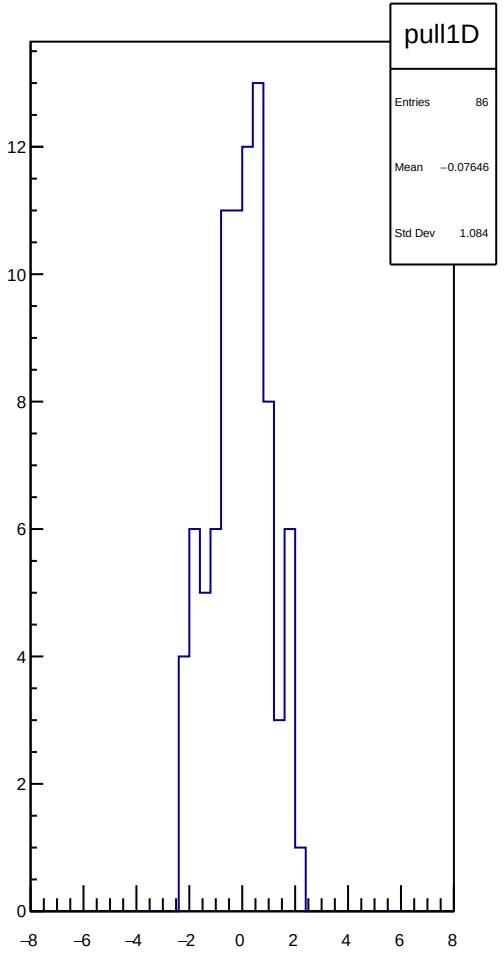

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 5875 / 85
p0 522.7 ± 0.4035
750
700
650
600
550
500

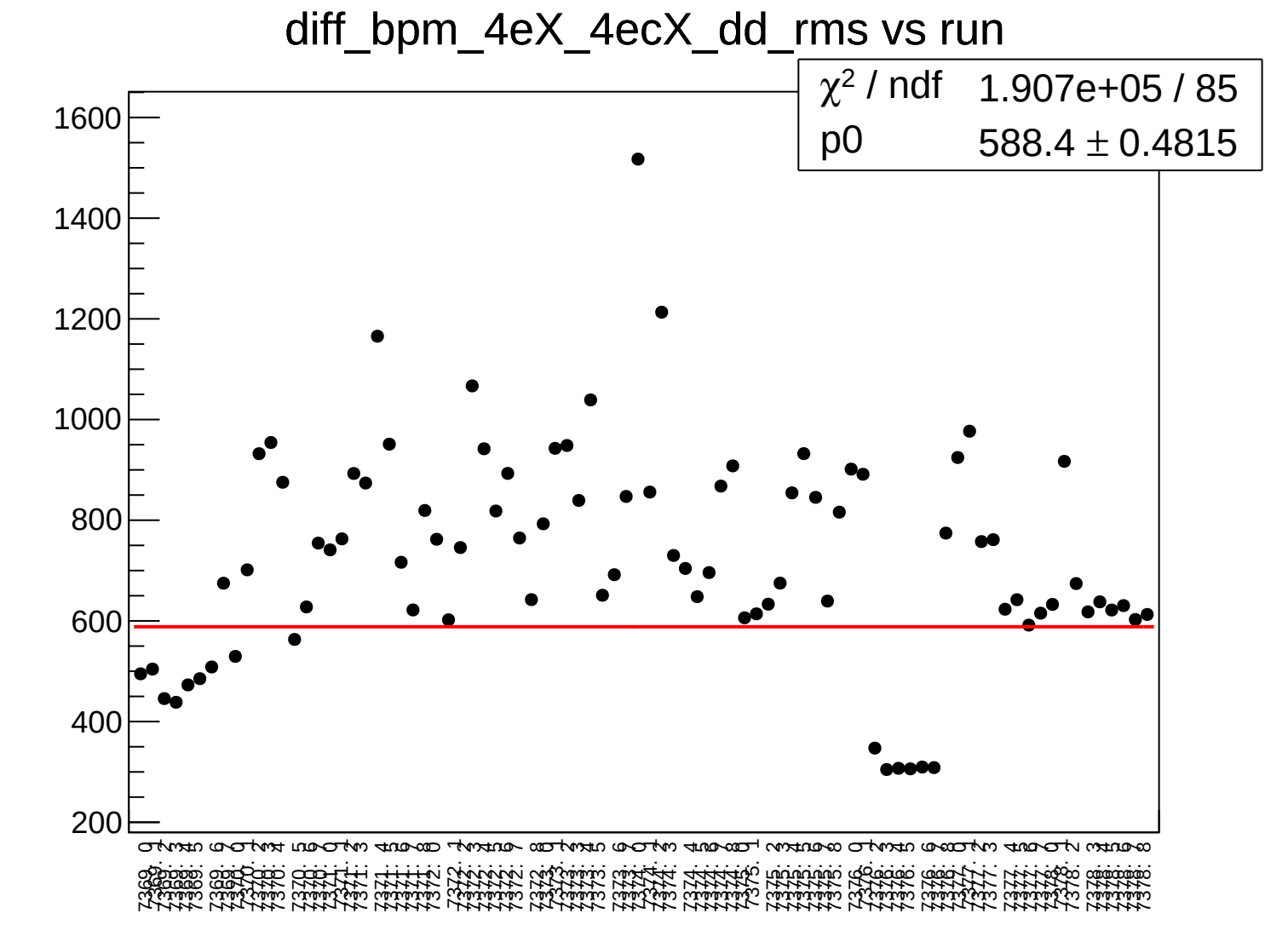

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 91.14 / 85
p0 4.833 ± 8.07
pull
Entries 86
Mean 44.22
Std Dev 0

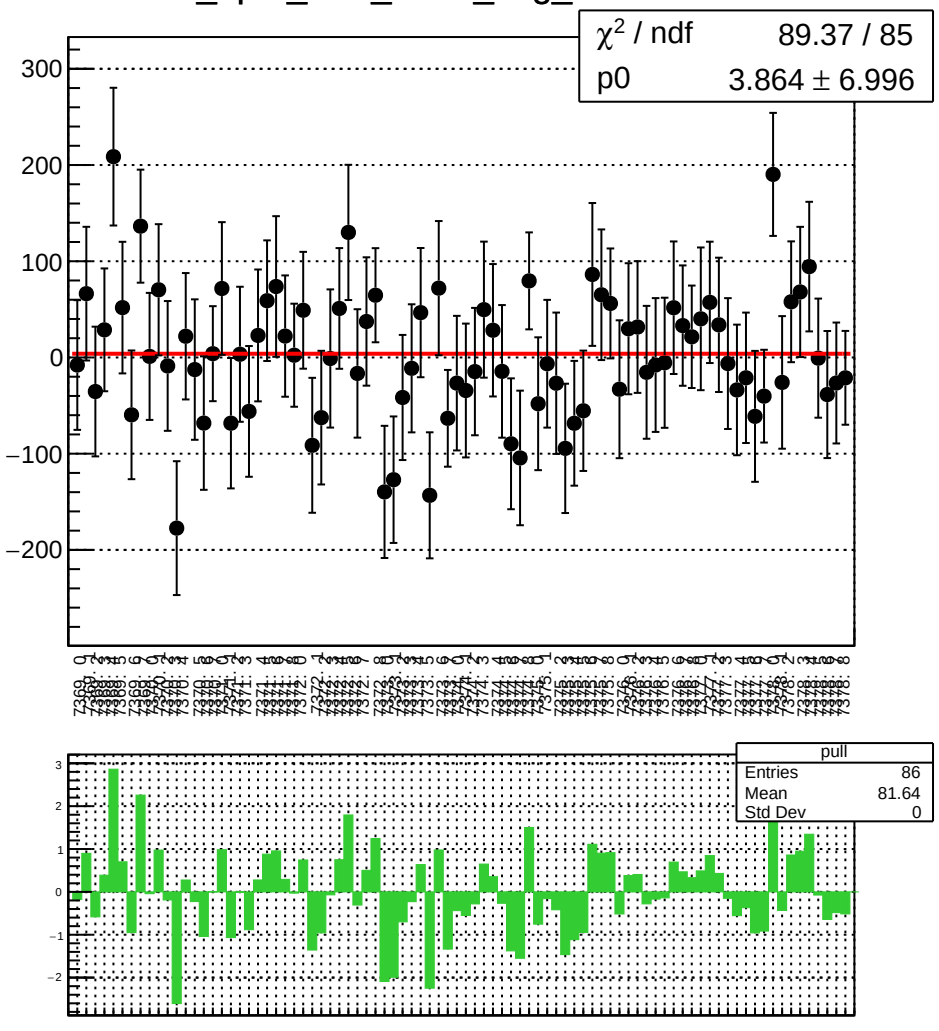

pull1D
Entries 86
Mean −0.01151
Std Dev 1.029

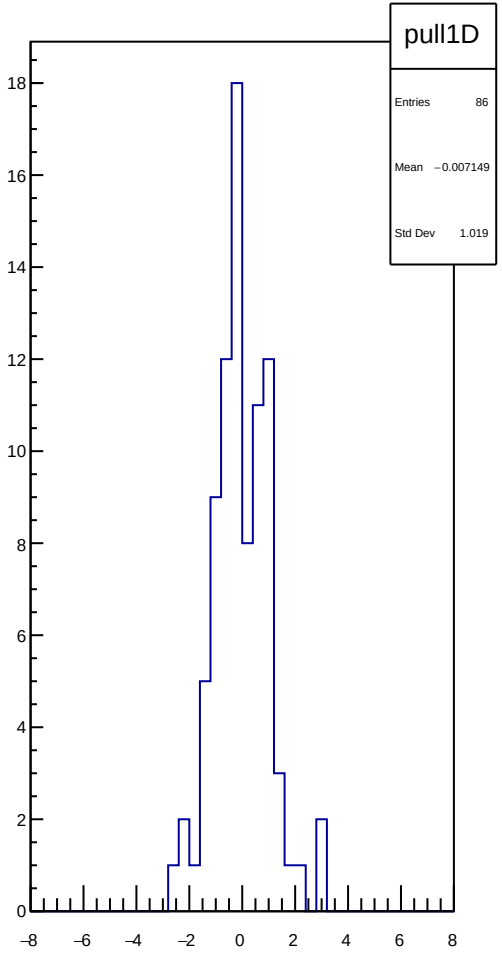

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2804 / 85
p0 7399 ± 5.707
8400
8200
8000
7800
7600
7400
7200
7000
6800

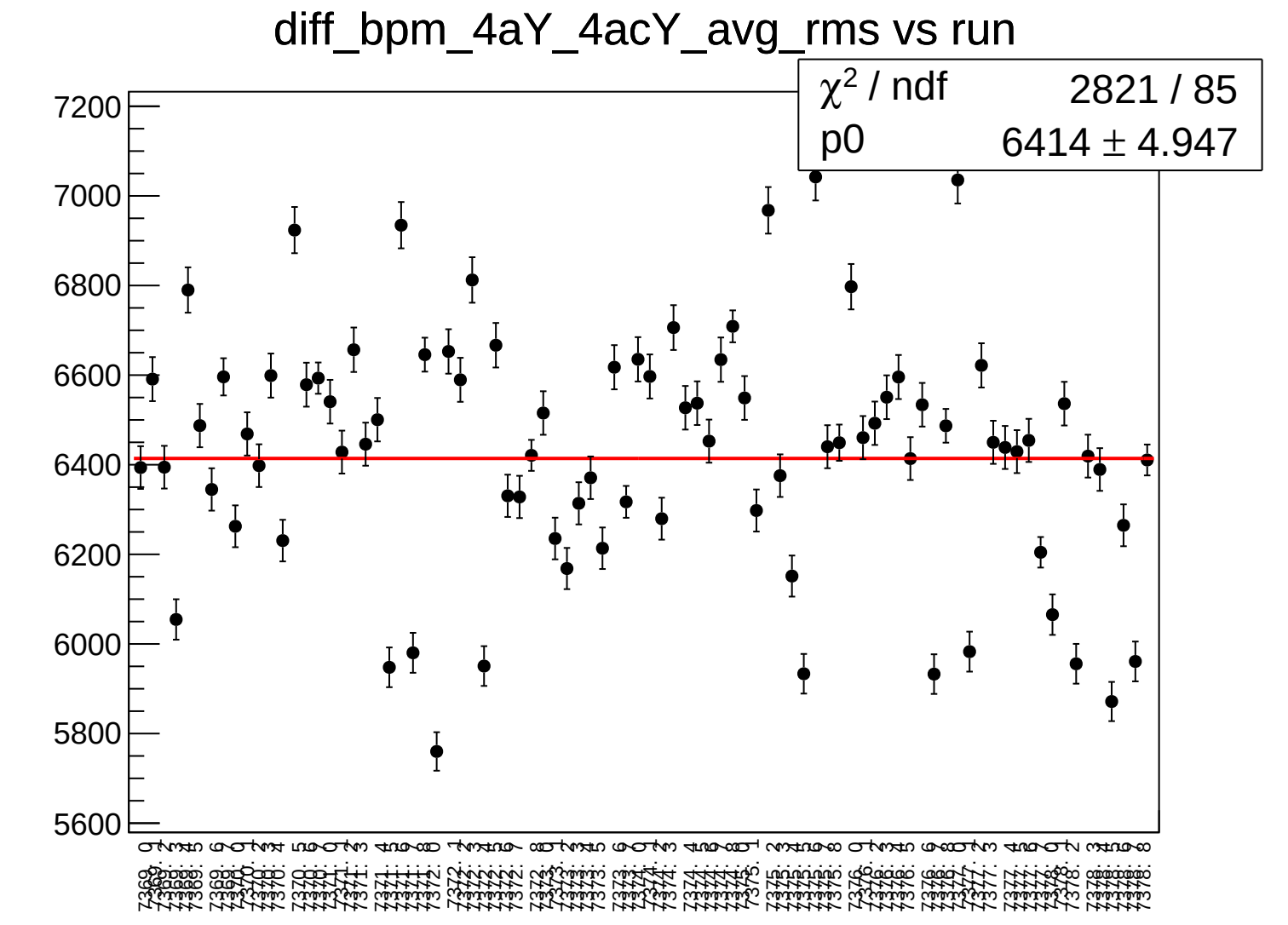

diff_bpm_4eX_4ecX_dd_mean vs run
χ^2 / ndf 101.6 / 85
p0 1.151 ± 0.6809
pull
Entries 86
Mean 73.84
Std Dev 0

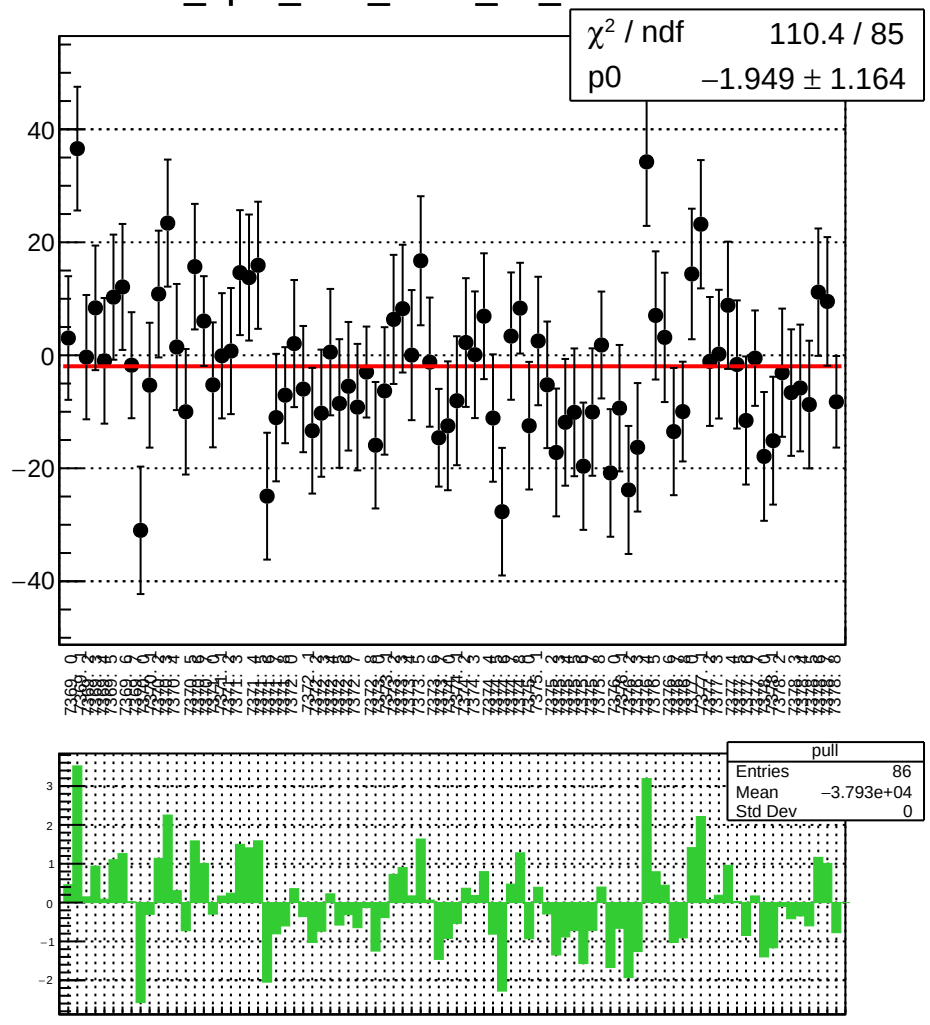

pull1D
Entries 86
Mean −0.07646
Std Dev 1.084

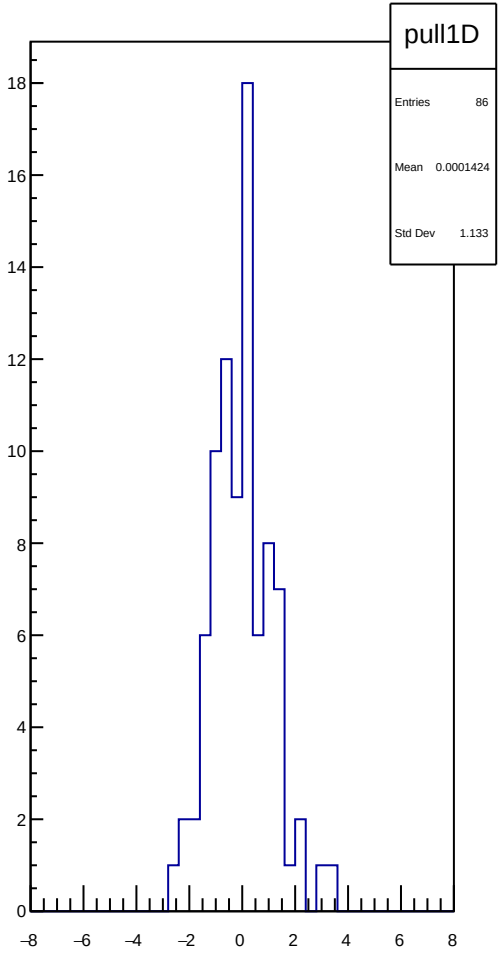

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 1.907e+05 / 85
p0 588.4 ± 0.4815
1600
1400
1200
1000
800
600
400
200

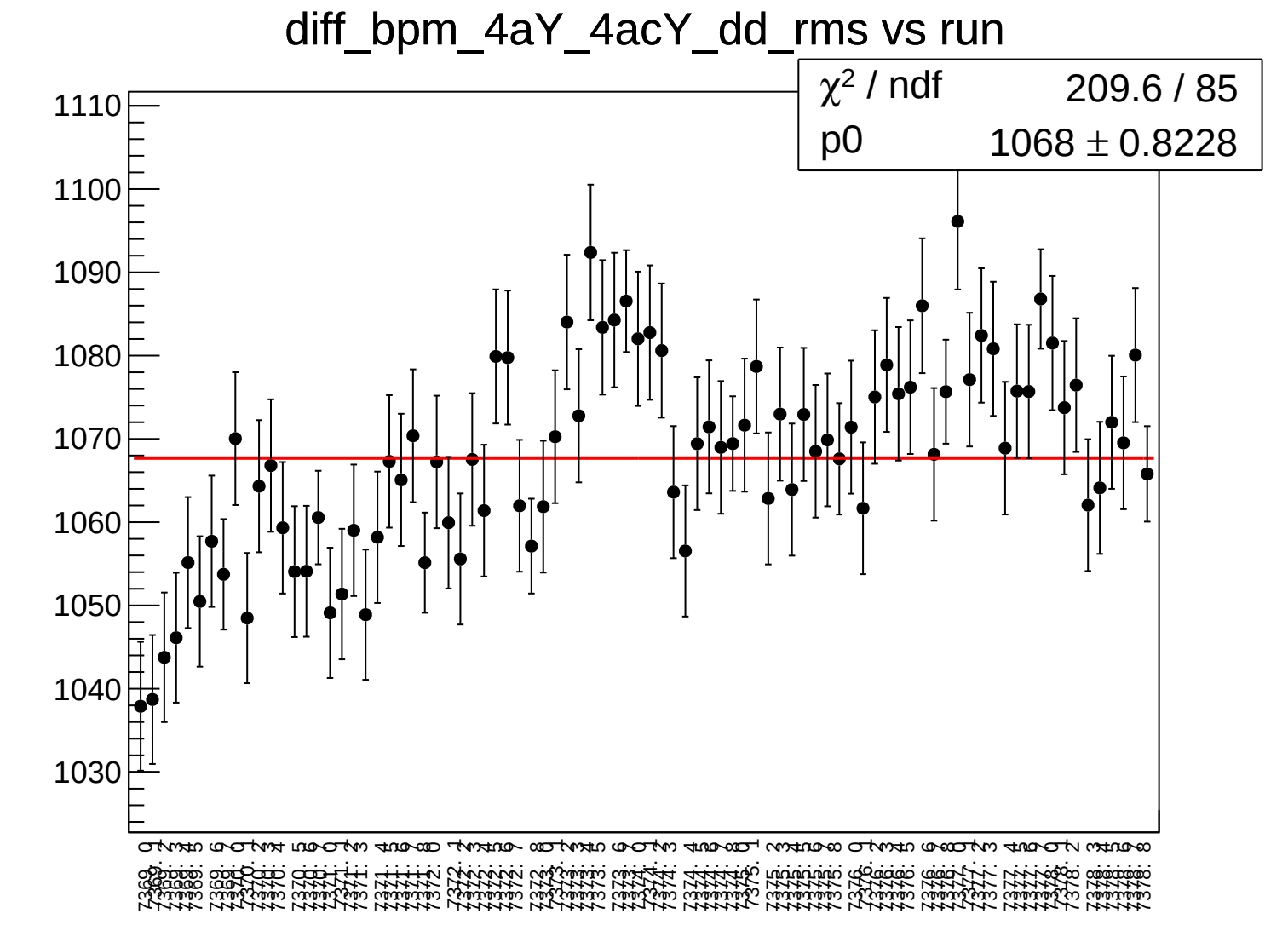

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 89.37 / 85
p0 3.864 ± 6.996
pull
Entries 86
Mean 81.64
Std Dev 0

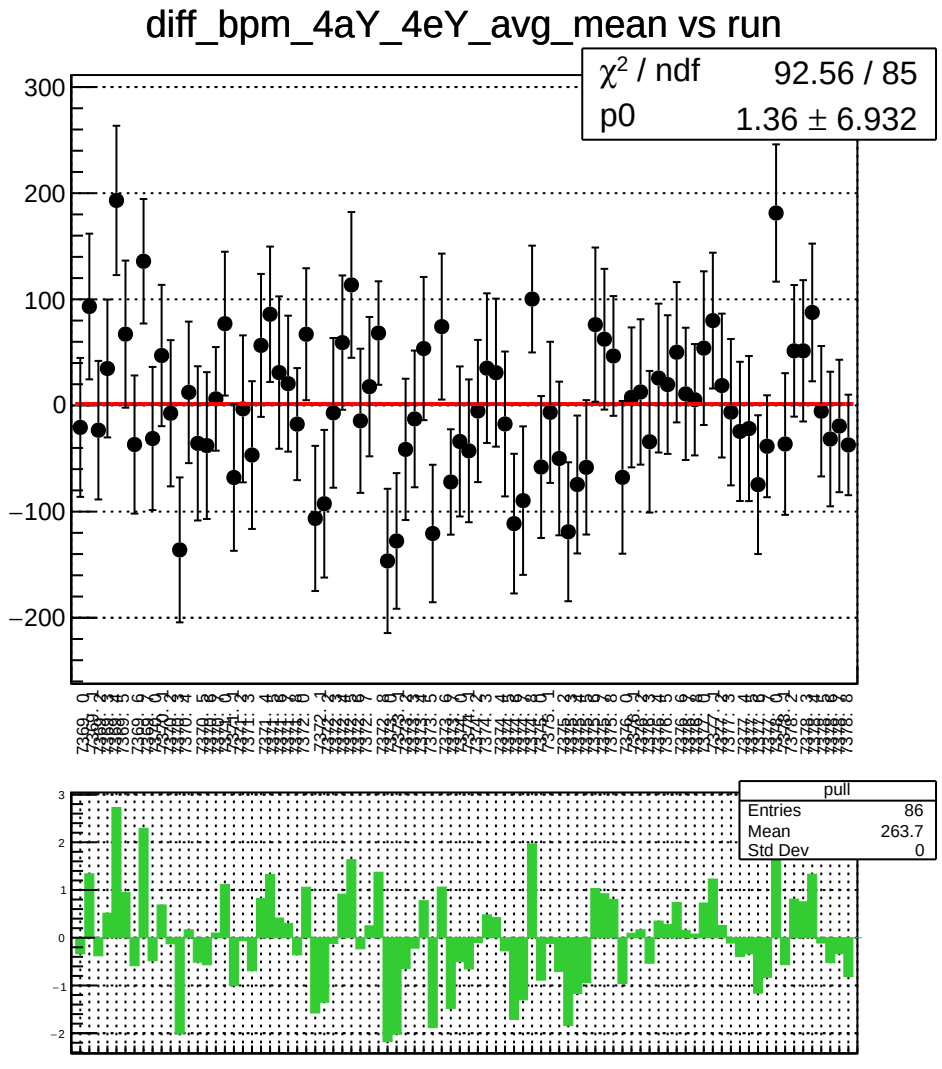

pull1D
Entries 86
Mean −0.007149
Std Dev 1.019

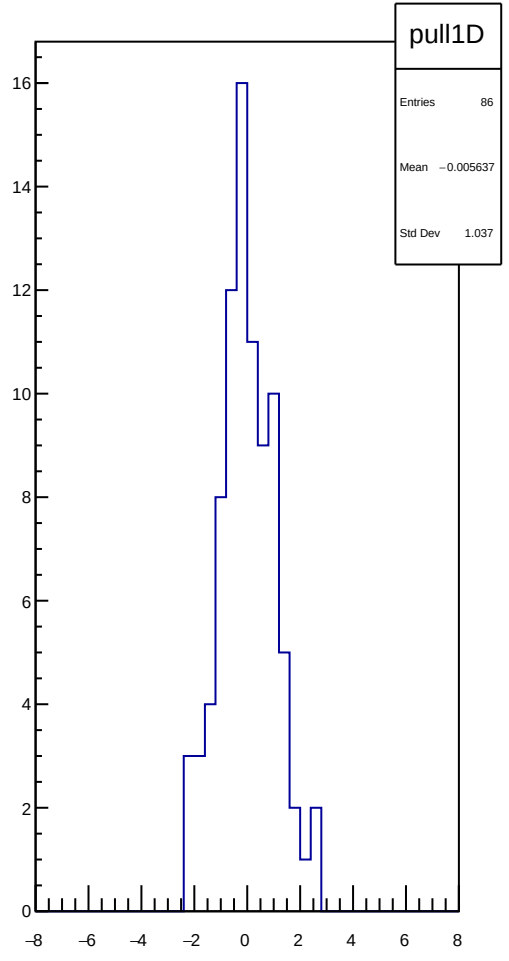

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 2821 / 85
p0 6414 ± 4.947
7200
7000
6800
6600
6400
6200
6000
5800
5600

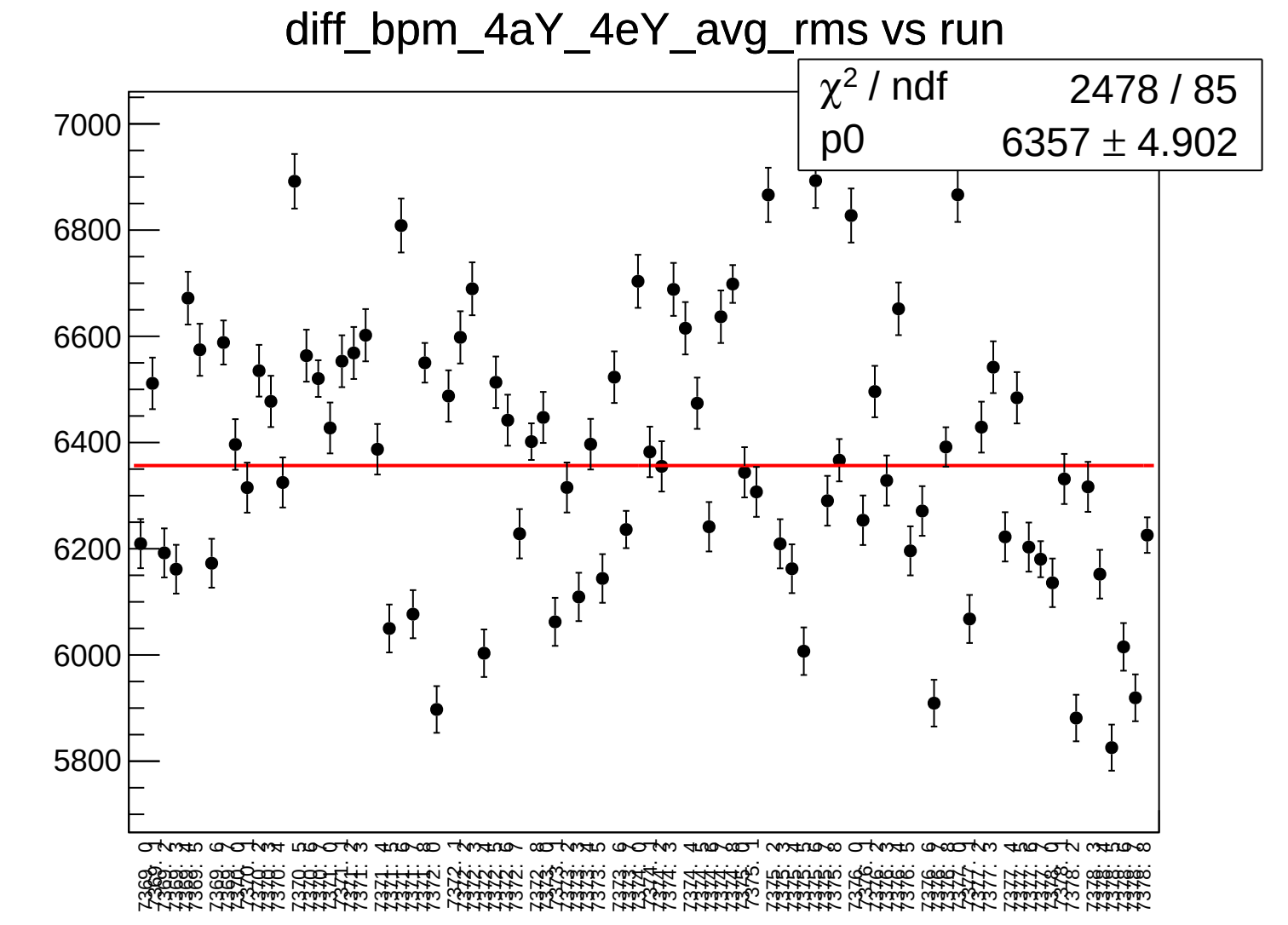

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 110.4 / 85
p0 −1.949 ± 1.164
pull
Entries 86
Mean −3.793e+04
Std Dev 0

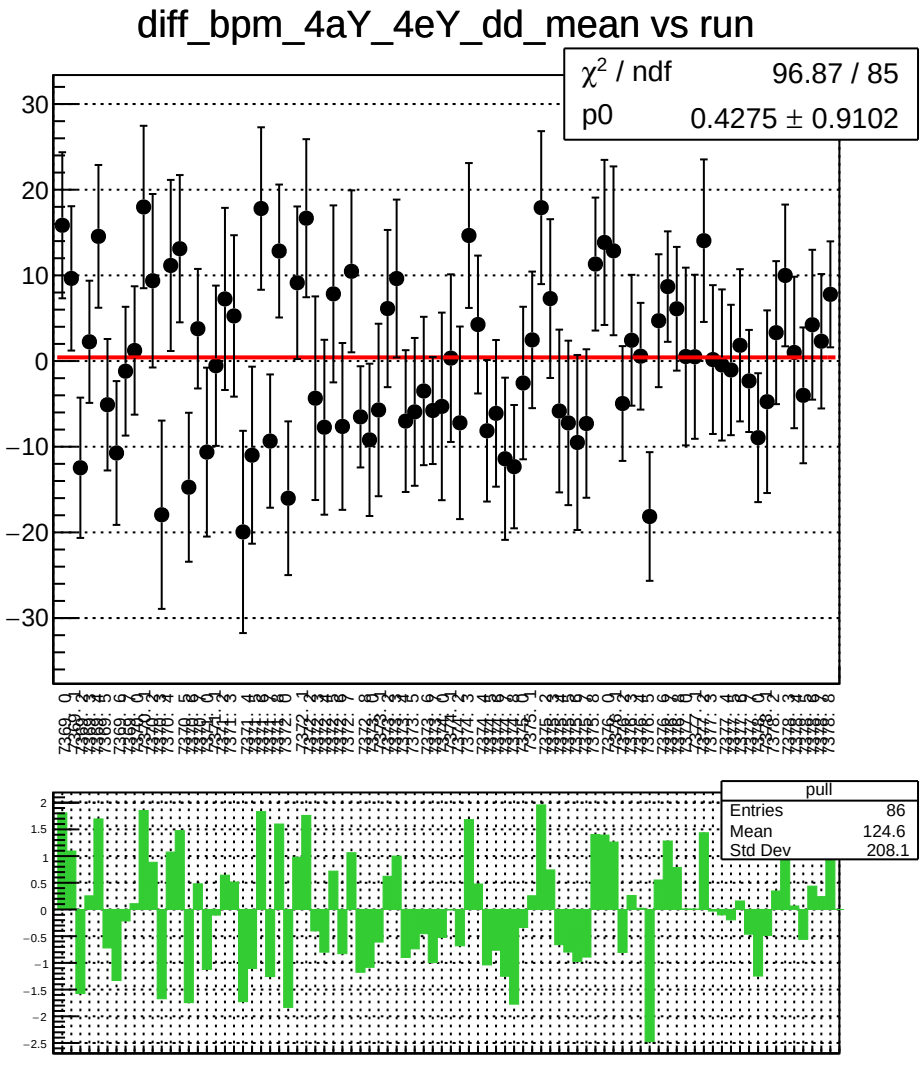

pull1D
Entries 86
Mean 0.0001424
Std Dev 1.133

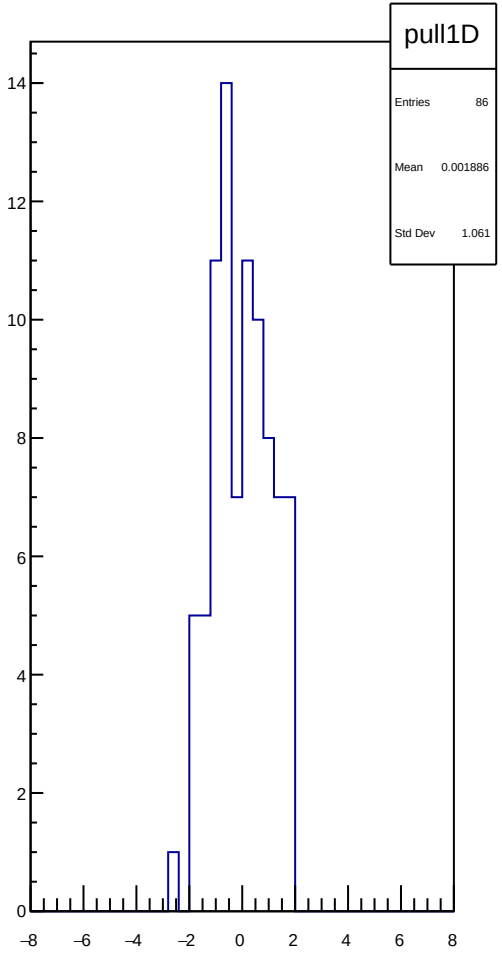

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 209.6 / 85
p0 1068 ± 0.8228
1110
1100
1090
1080
1070
1060
1050
1040
1030

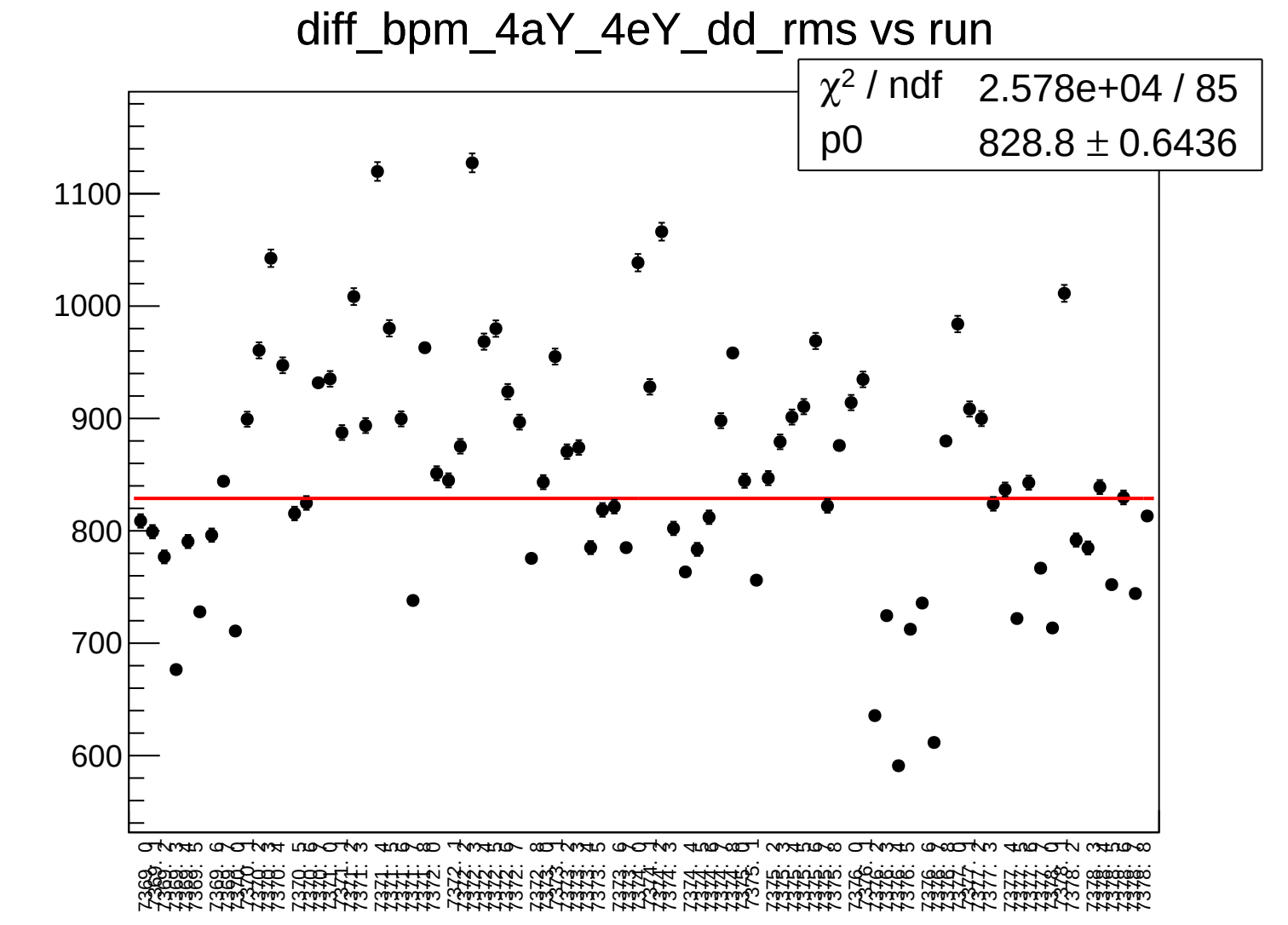

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 92.56 / 85
p0 1.36 ± 6.932
300
200
100
0
−100
−200
pull
Entries 86
Mean 263.7
Std Dev 0
3
2
1
0
−1
−2

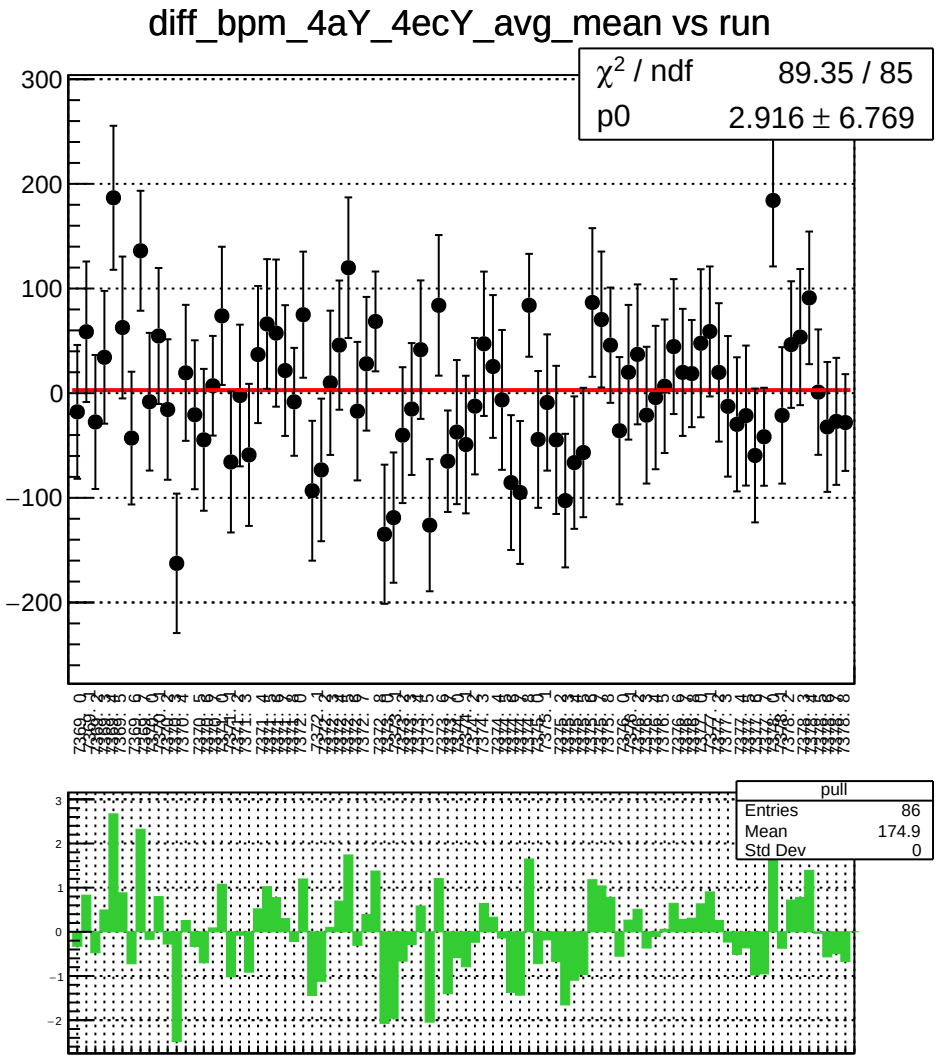

pull1D
Entries 86
Mean −0.005637
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

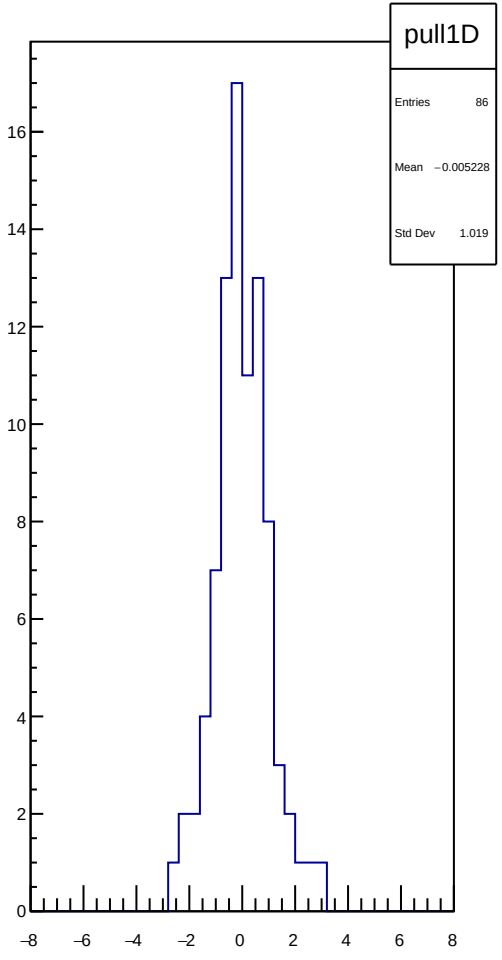

diff_bpm_4aY_4eY_avg_rms vs run
χ^2 / ndf 2478 / 85
p0 6357 ± 4.902
7000
6800
6600
6400
6200
6000
5800

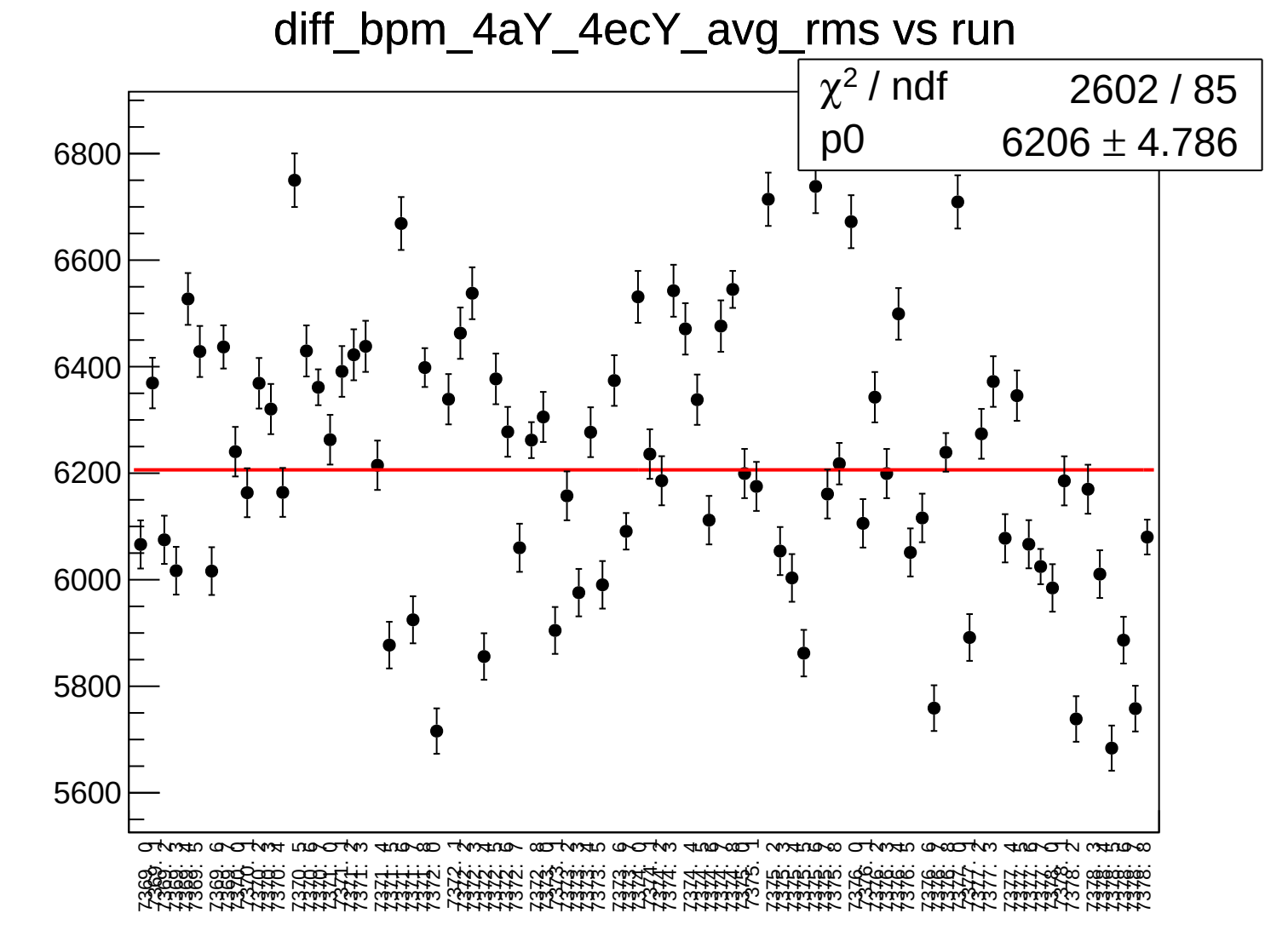

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 96.87 / 85
p0 0.4275 ± 0.9102
pull
Entries 86
Mean 124.6
Std Dev 208.1

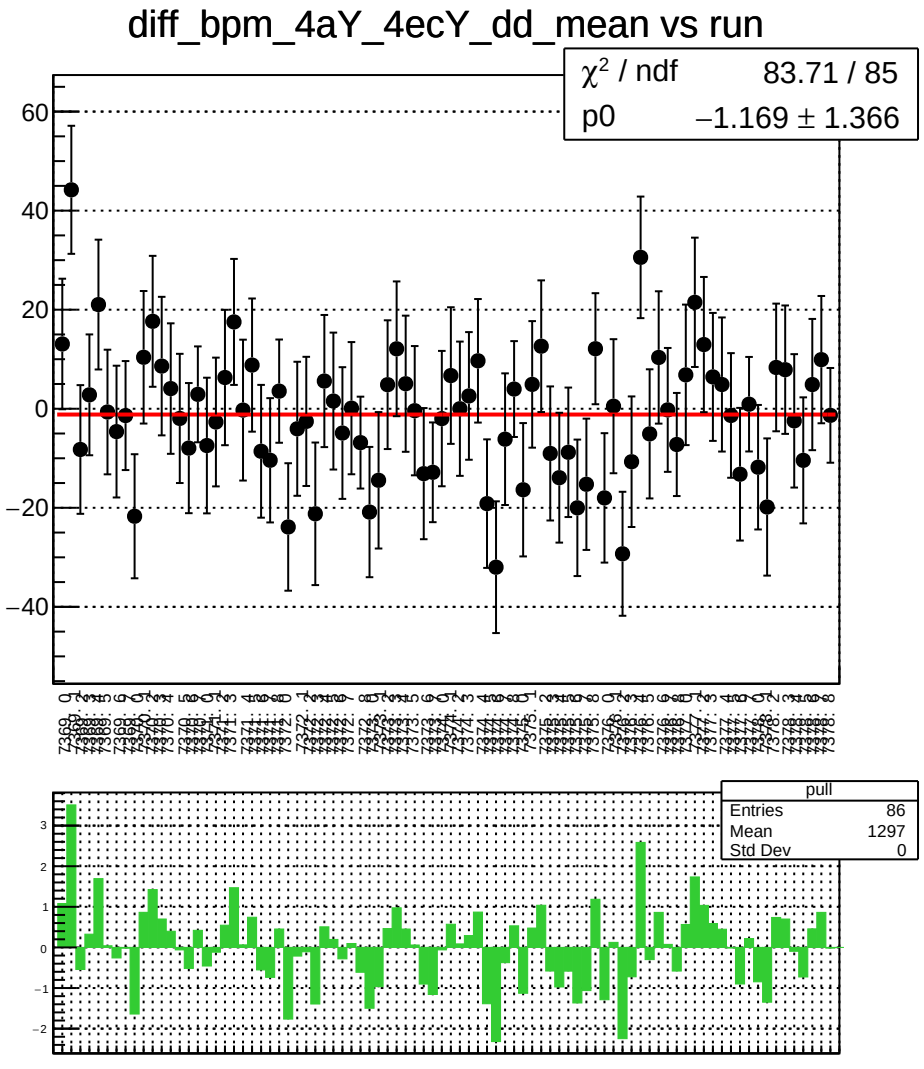

pull1D
Entries 86
Mean 0.001886
Std Dev 1.061

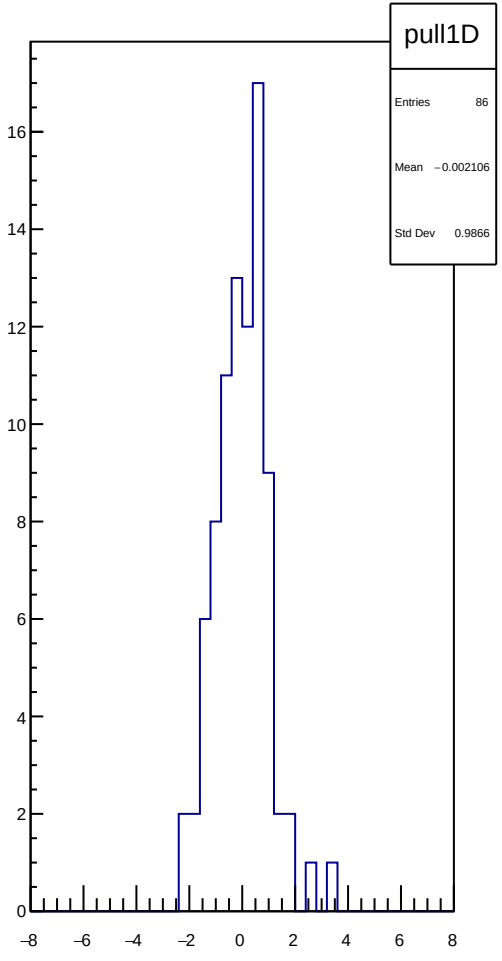

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 2.578e+04 / 85
p0 828.8 ± 0.6436
1100
1000
900
800
700
600

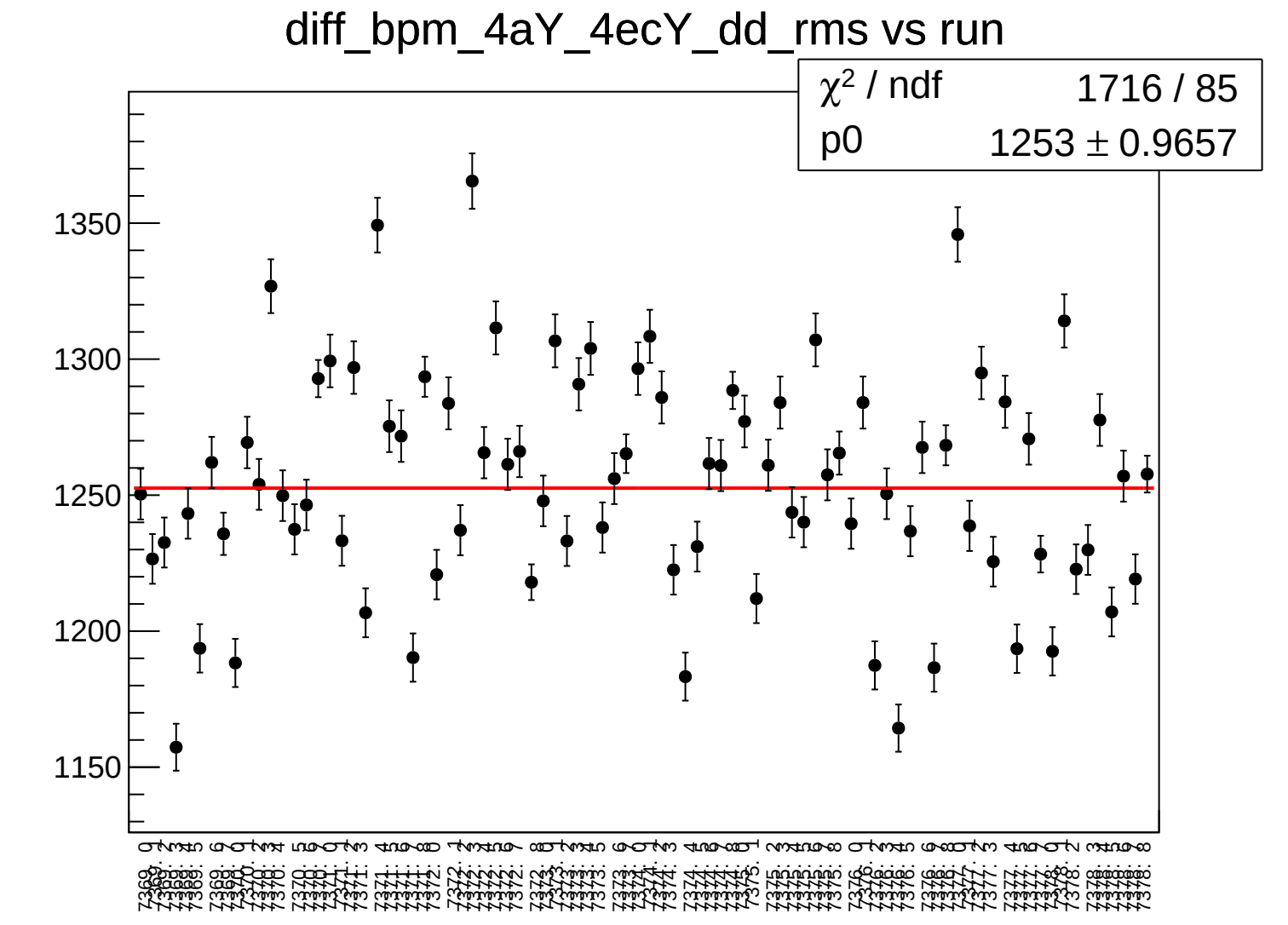

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 89.35 / 85
p0 2.916 ± 6.769
pull
Entries 86
Mean 174.9
Std Dev 0

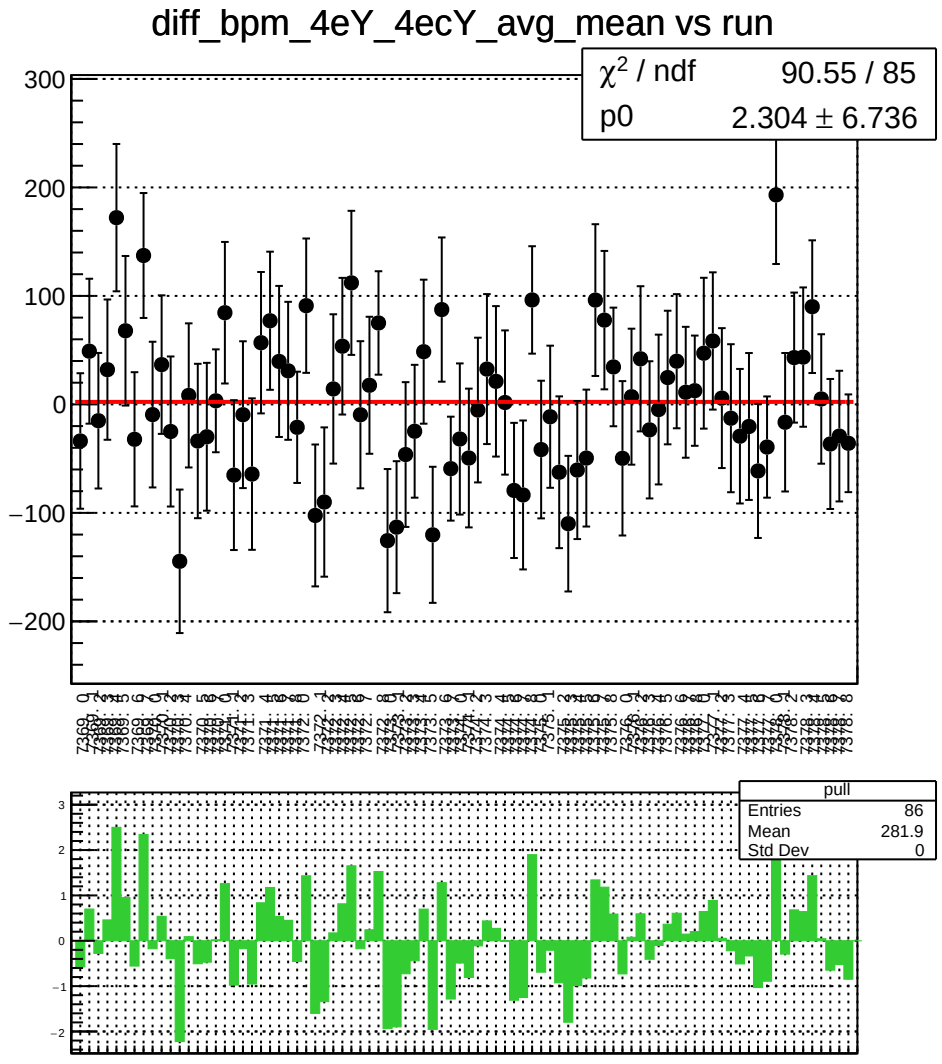

pull1D
Entries 86
Mean −0.005228
Std Dev 1.019

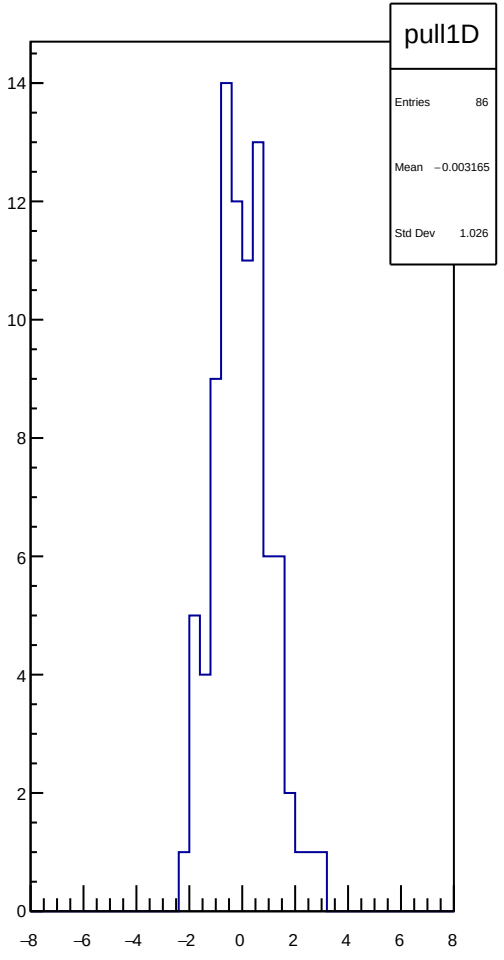

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2602 / 85
p0 6206 ± 4.786
6800
6600
6400
6200
6000
5800
5600

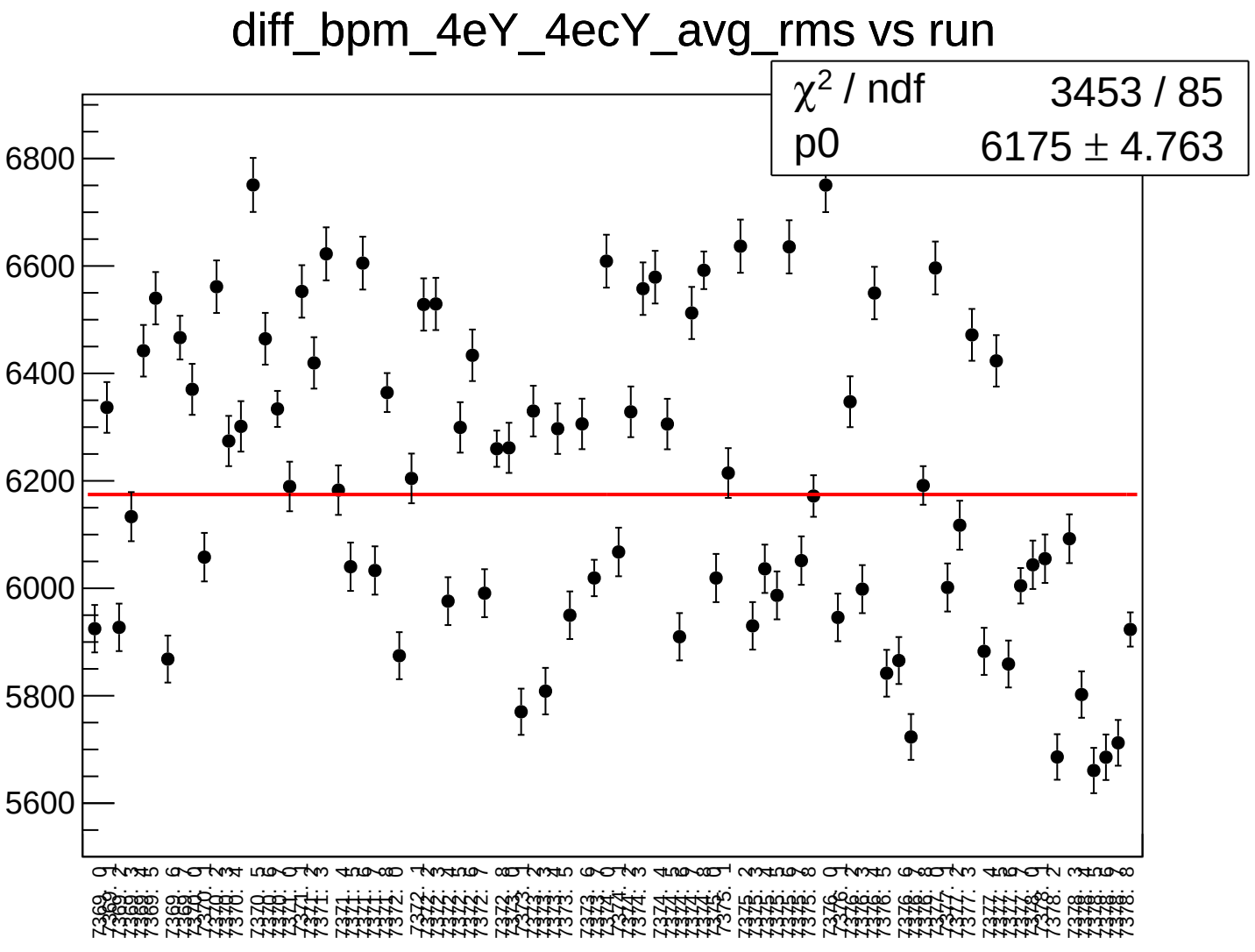

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 83.71 / 85
p0 −1.169 ± 1.366
pull
Entries 86
Mean 1297
Std Dev 0

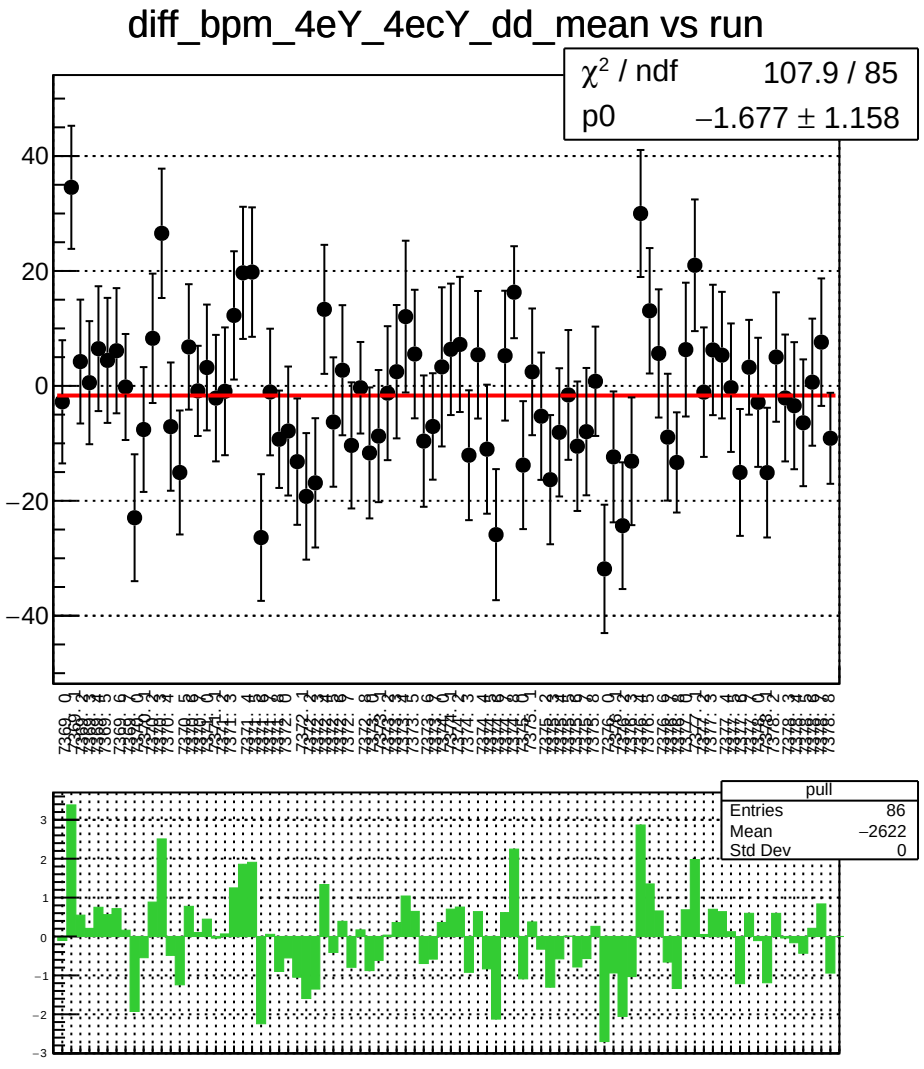

pull1D
Entries 86
Mean −0.002106
Std Dev 0.9866

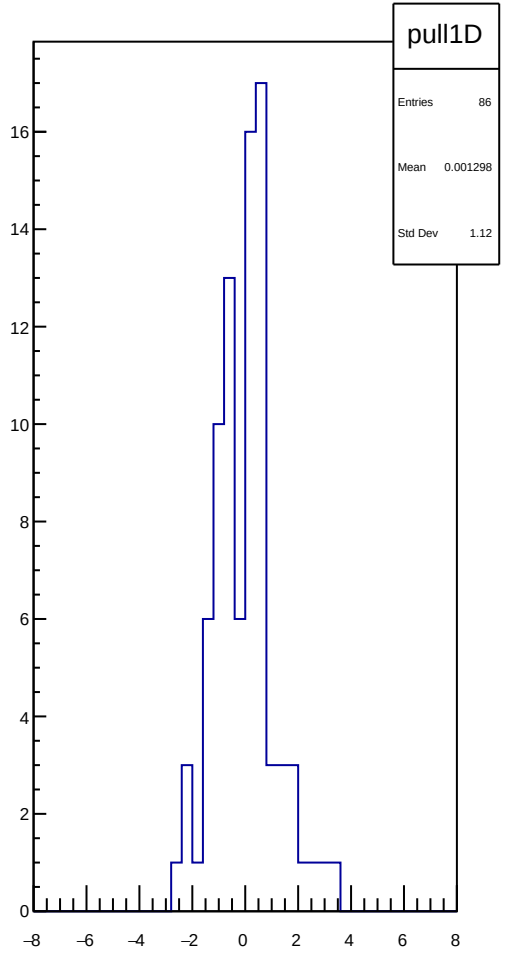

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1716 / 85
p0 1253 ± 0.9657
1350
1300
1250
1200
1150

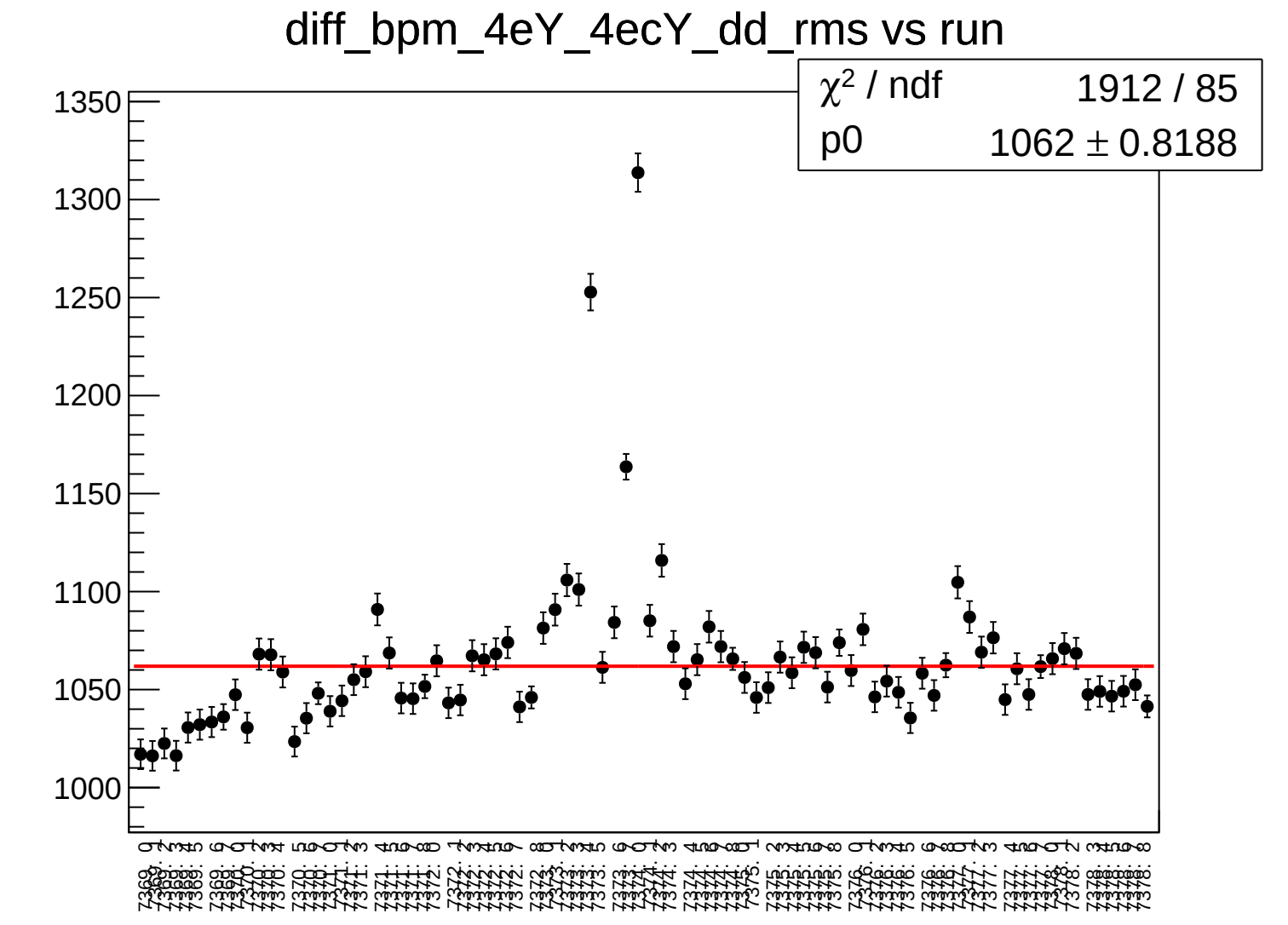

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 90.55 / 85
p0 2.304 ± 6.736
pull
Entries 86
Mean 281.9
Std Dev 0

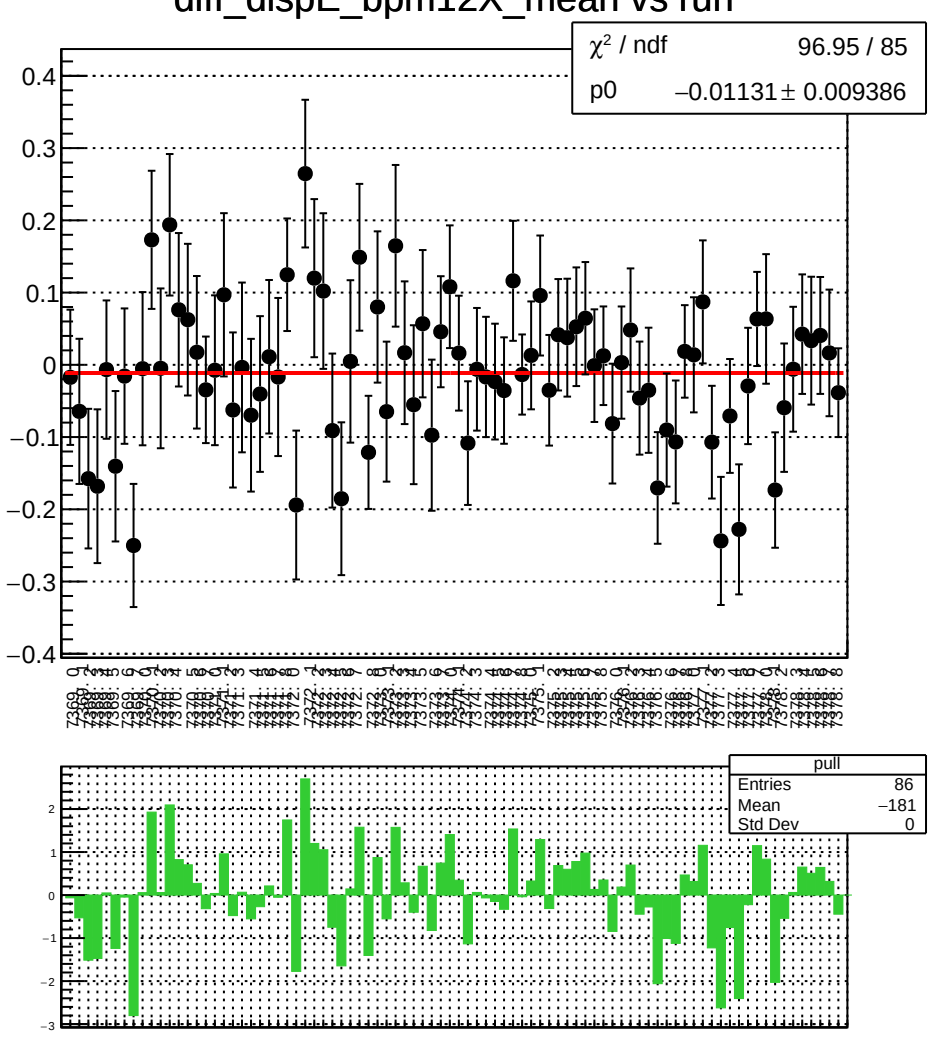

pull1D
Entries 86
Mean −0.003165
Std Dev 1.026

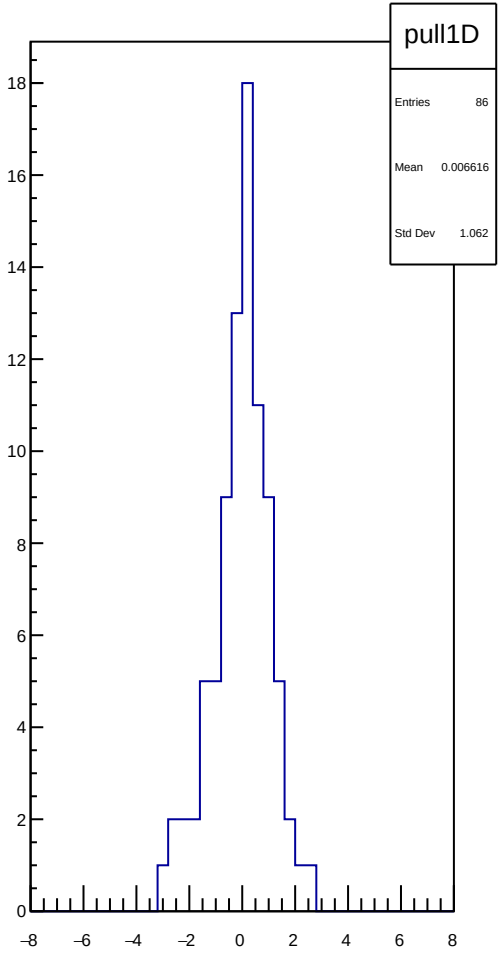

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3453 / 85
p0 6175 ± 4.763
6800
6600
6400
6200
6000
5800
5600

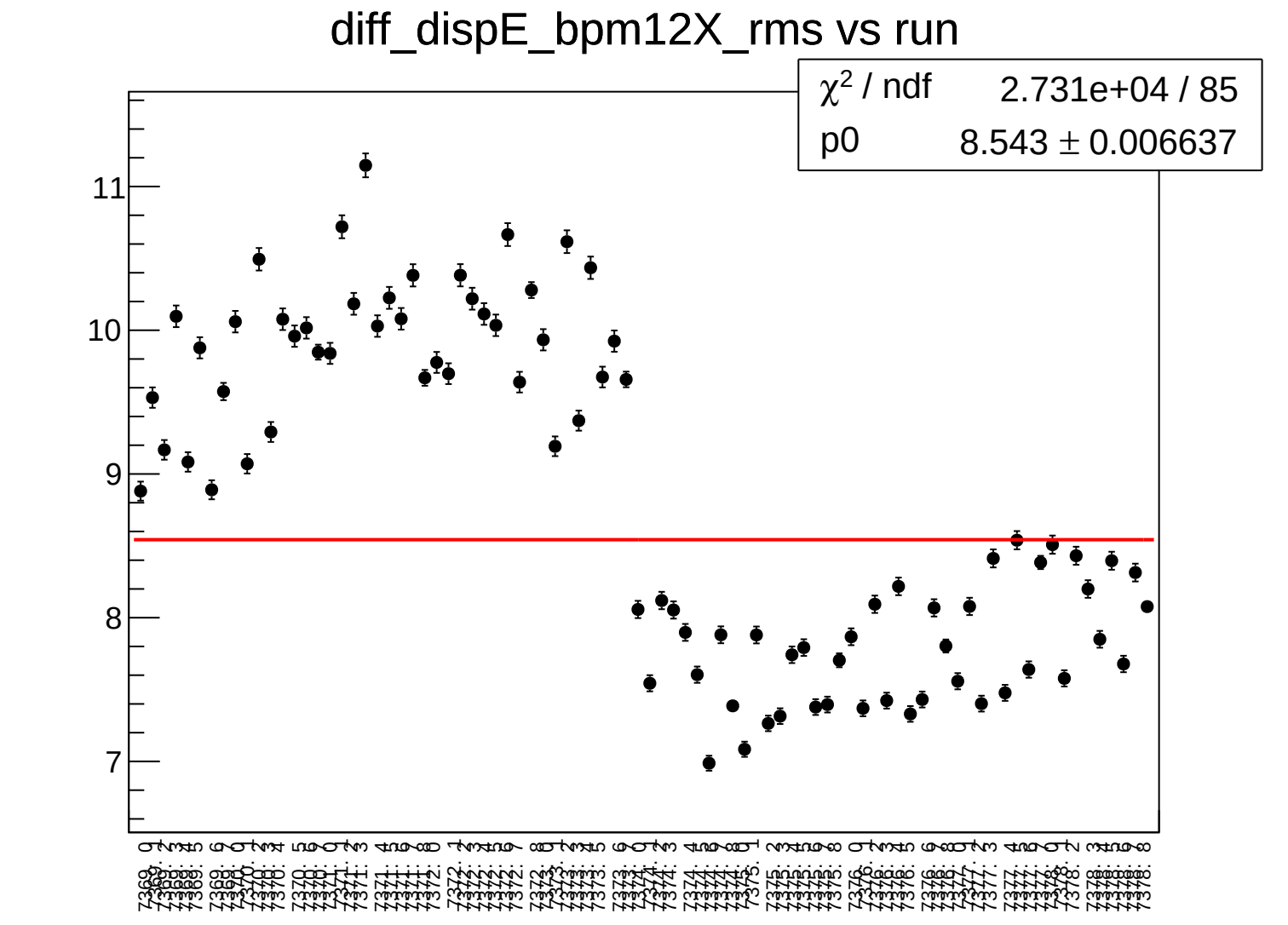

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 107.9 / 85
p0 −1.677 ± 1.158
40
20
0
−20
−40
pull
Entries 86
Mean −2622
Std Dev 0
3
2
1
0
−1
−2
−3

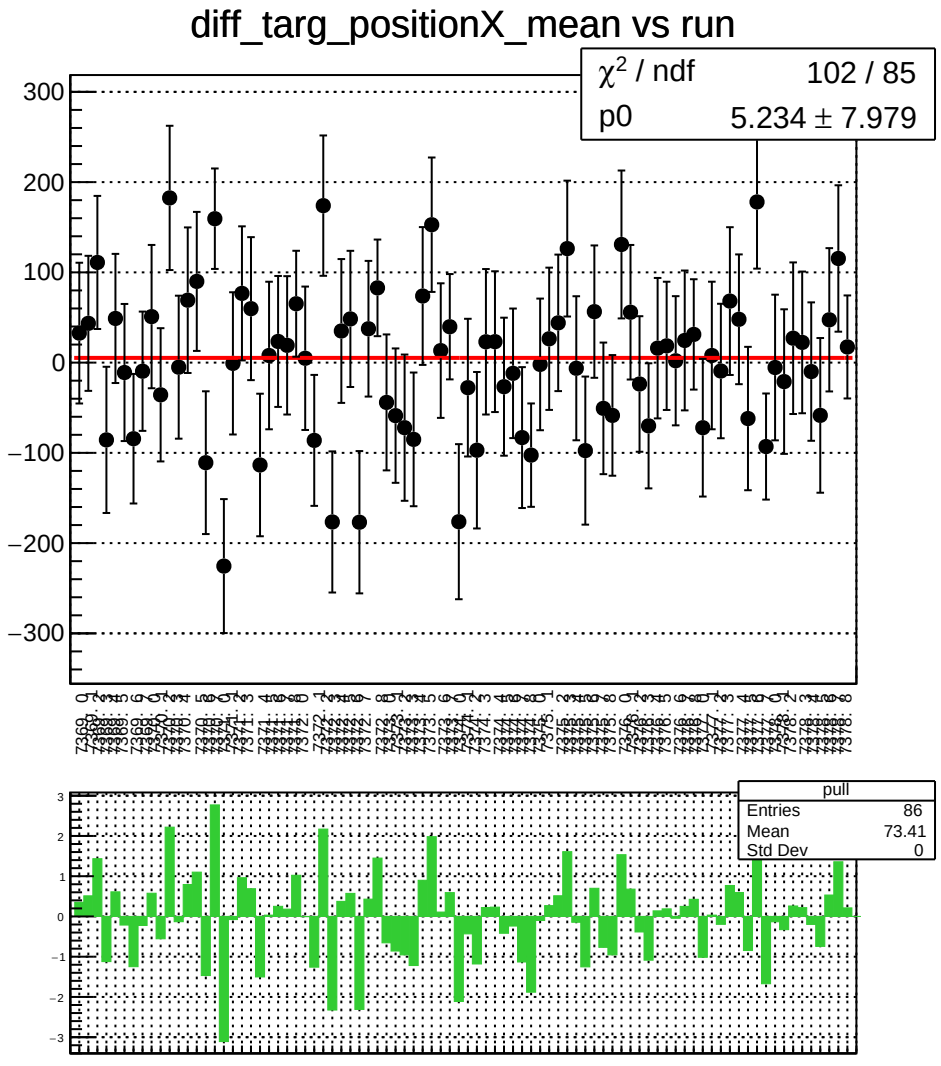

pull1D
Entries 86
Mean 0.001298
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

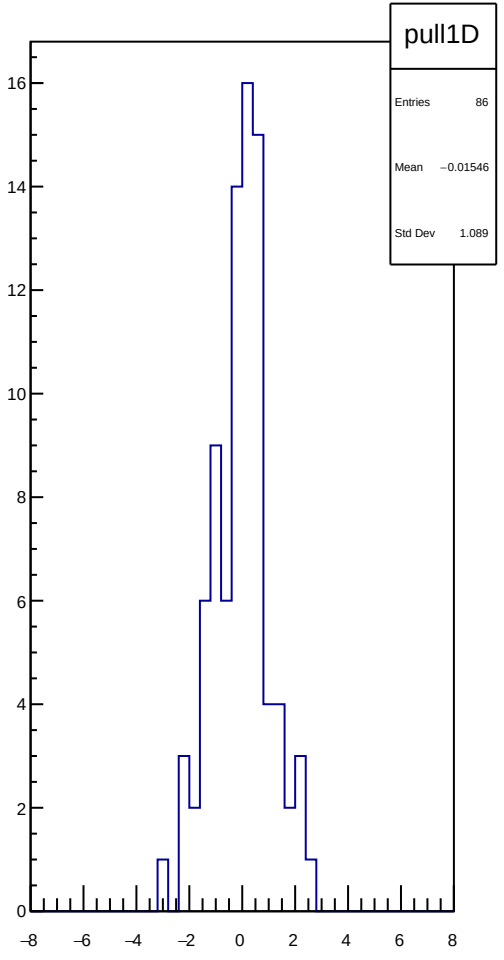

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 1912 / 85
p0 1062 ± 0.8188
1350
1300
1250
1200
1150
1100
1050
1000

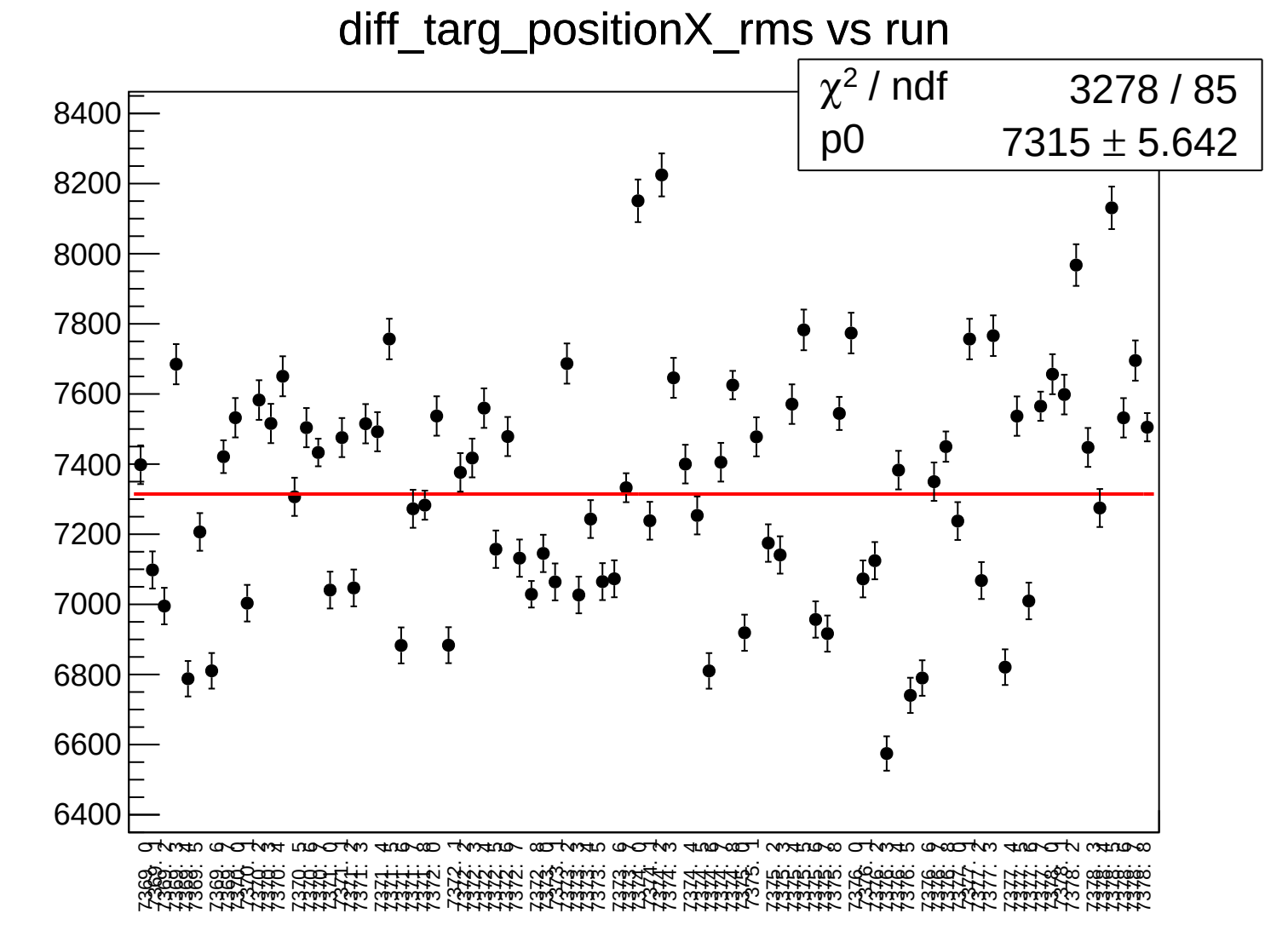

diff_dispE_bpm12X_mean vs run
χ² / ndf 96.95 / 85
p0 −0.01131 ± 0.009386
pull
Entries 86
Mean −181
Std Dev 0

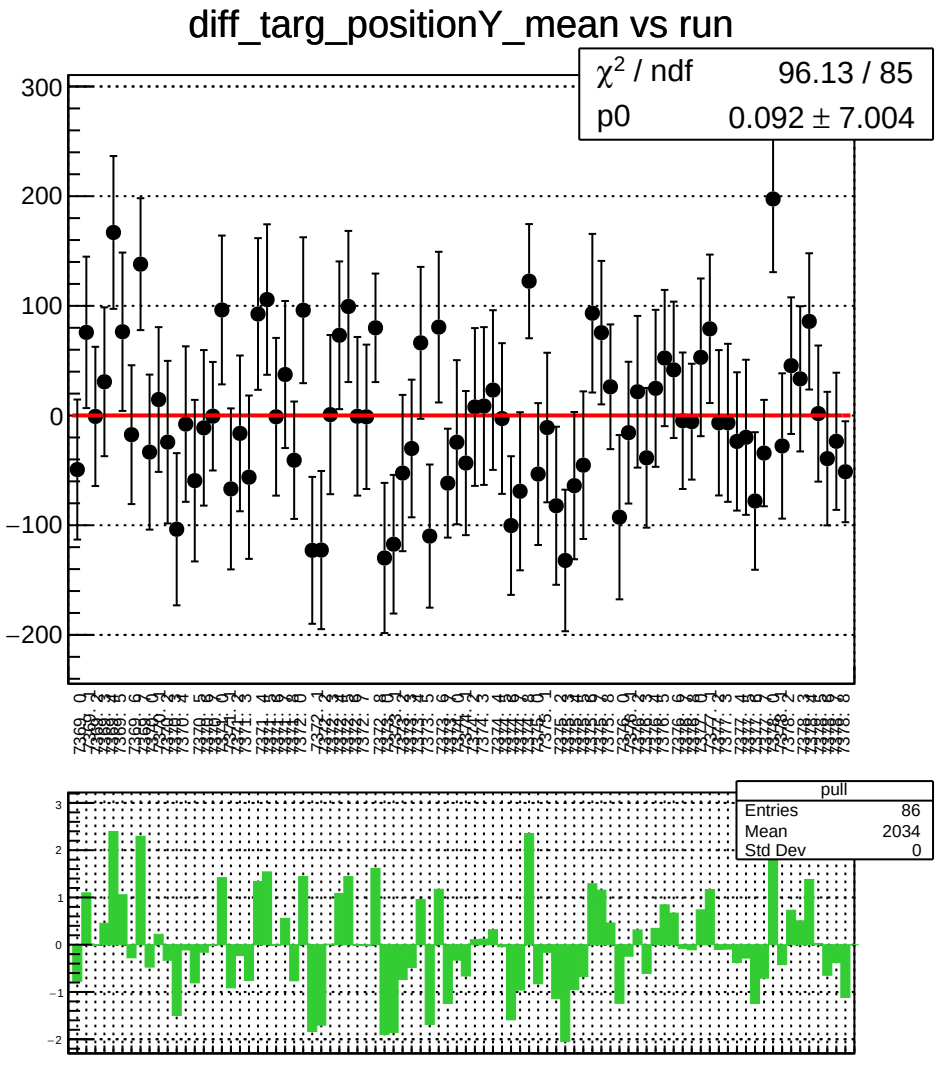

pull1D
Entries 86
Mean 0.006616
Std Dev 1.062

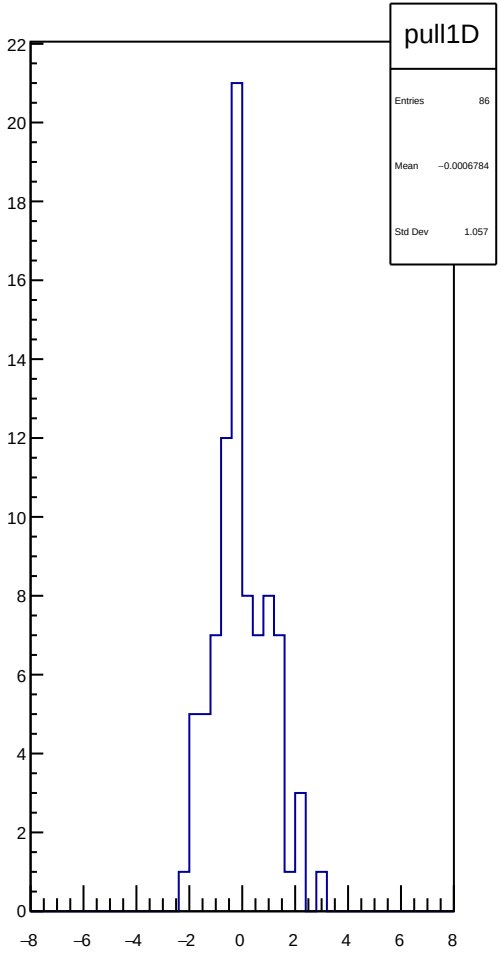

diff_dispE_bpm12X_rms vs run
χ² / ndf 2.731e+04 / 85
p0 8.543 ± 0.006637
11
10
9
8
7

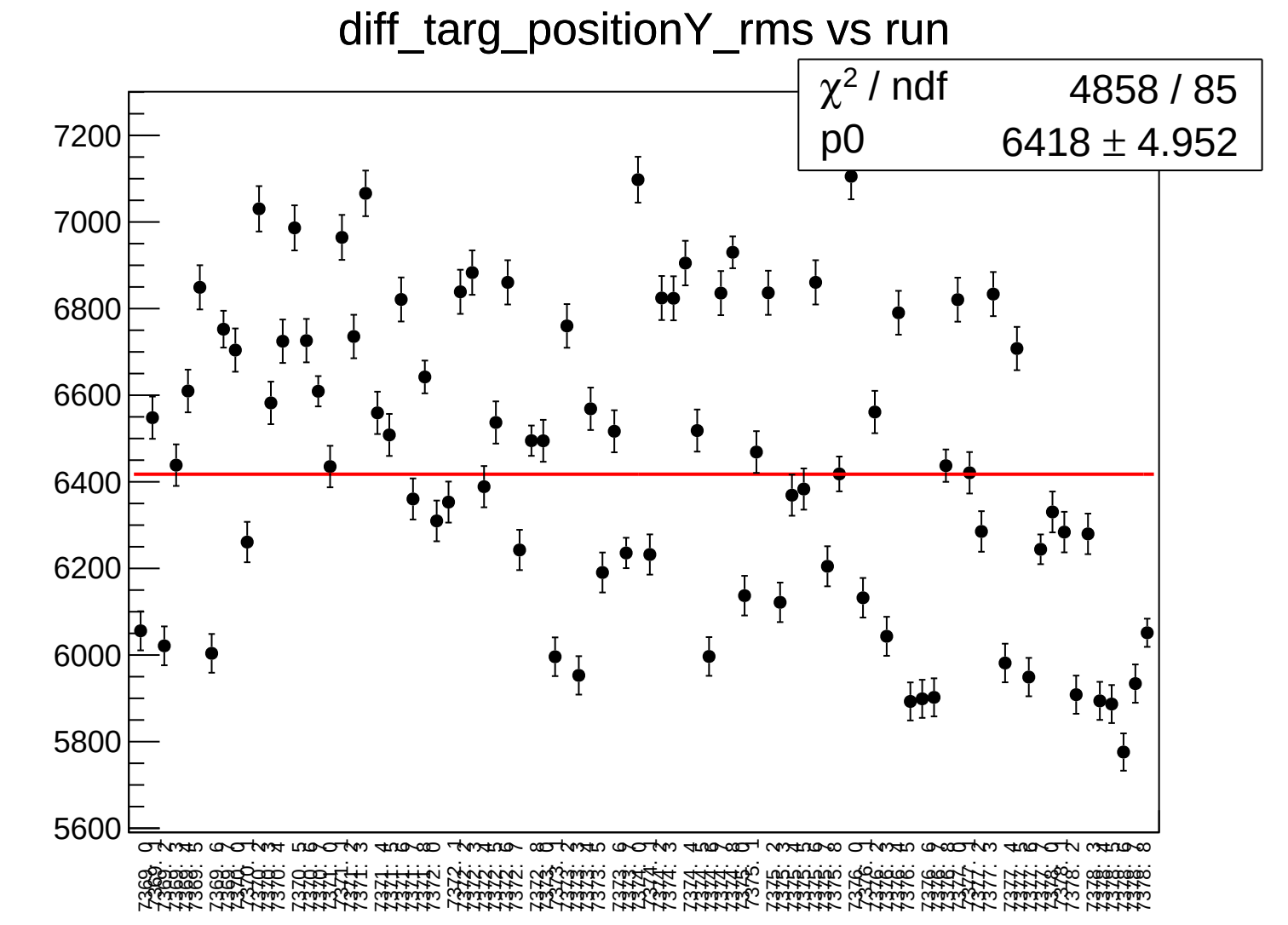

diff_targ_positionX_mean vs run
χ^2 / ndf 102 / 85
p0 5.234 ± 7.979
pull
Entries 86
Mean 73.41
Std Dev 0

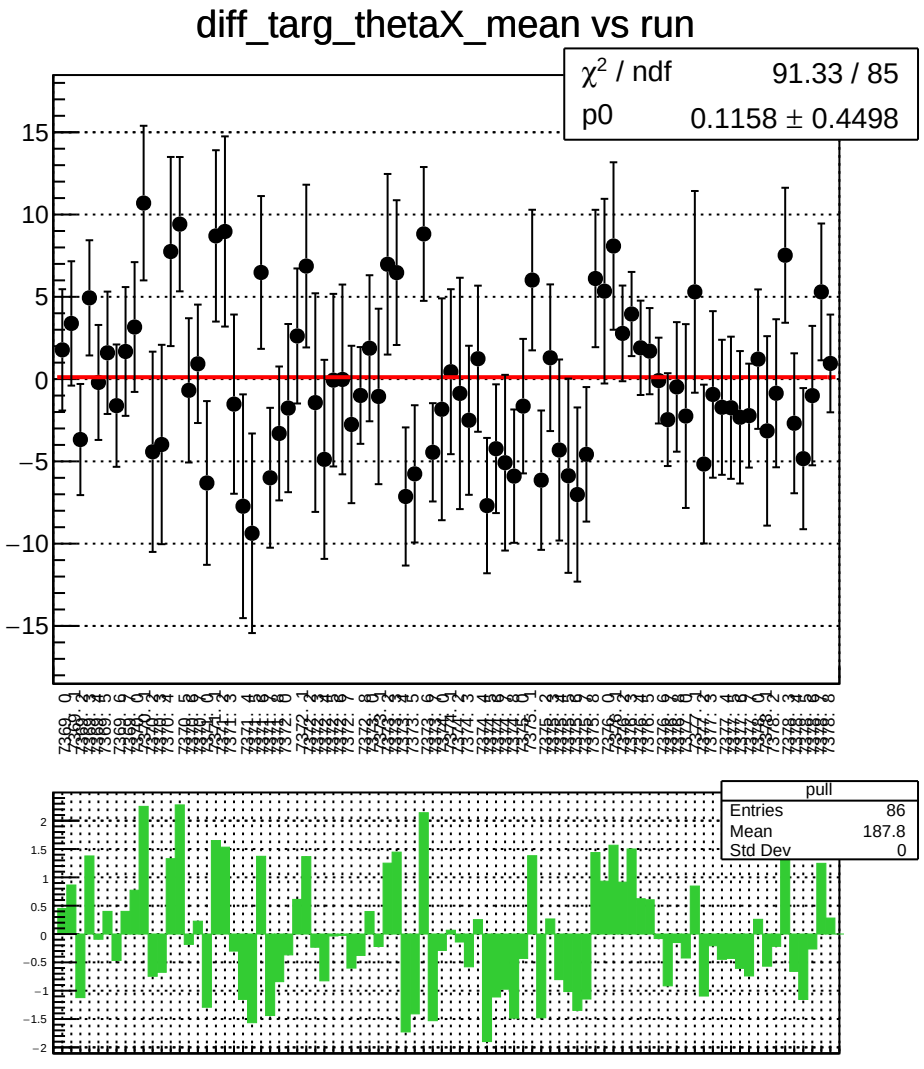

pull1D
Entries 86
Mean −0.01546
Std Dev 1.089

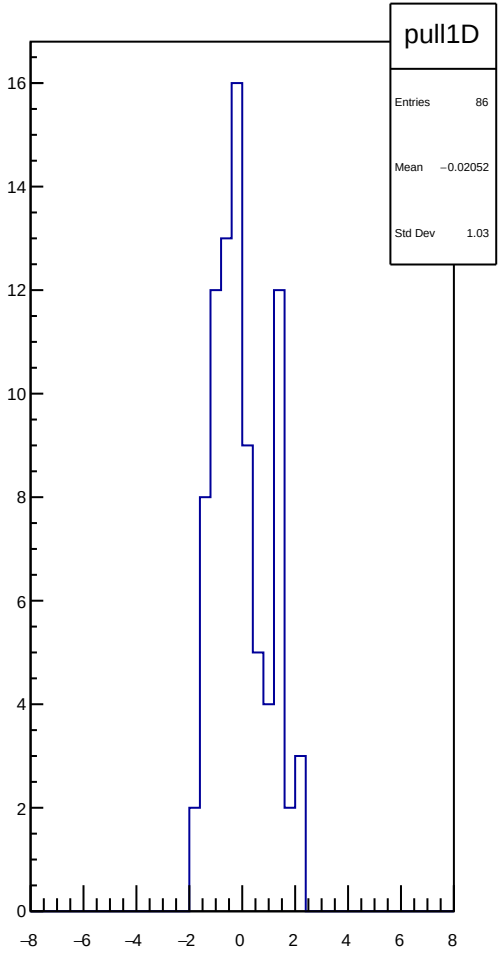

diff_targ_positionX_rms vs run
χ^2 / ndf 3278 / 85
p0 7315 ± 5.642
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

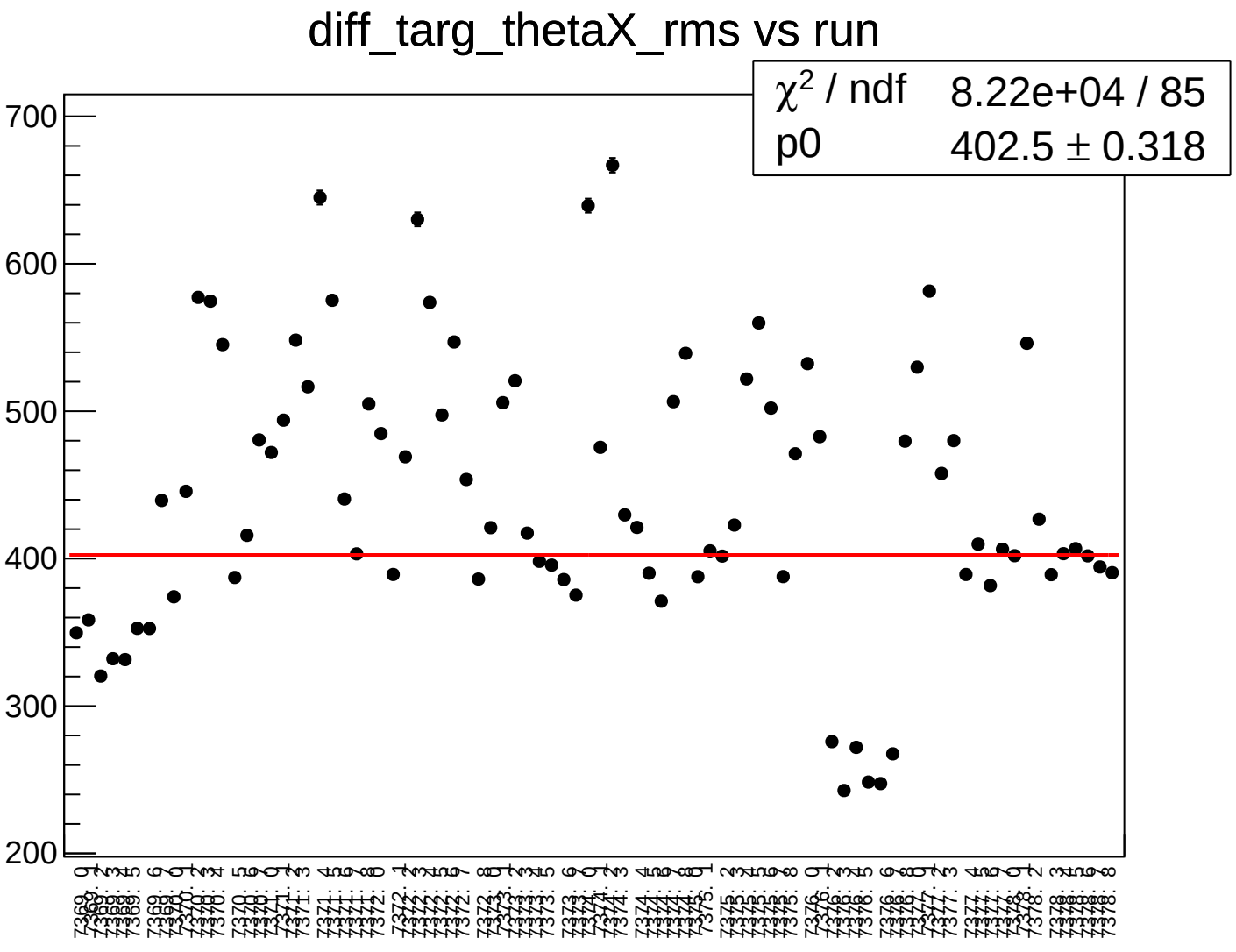

diff_targ_positionY_mean vs run
χ^2 / ndf 96.13 / 85
p0 0.092 ± 7.004
pull
Entries 86
Mean 2034
Std Dev 0

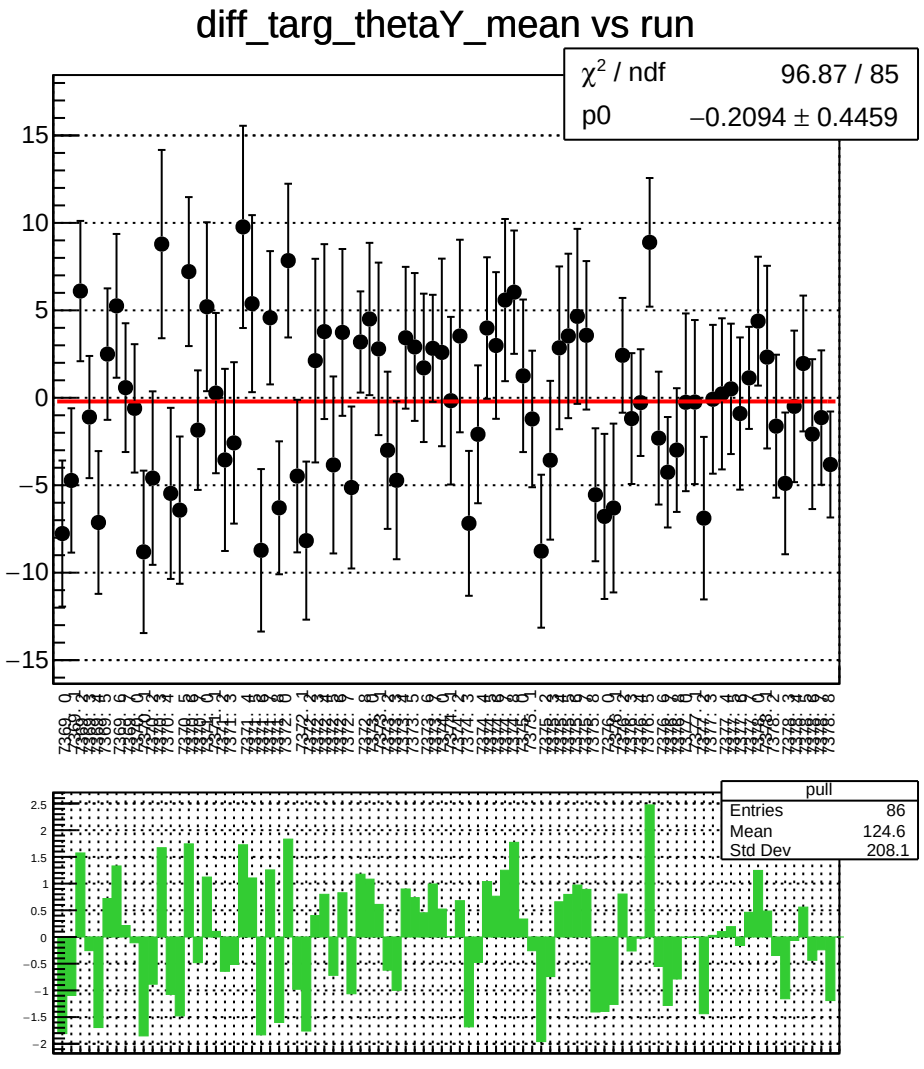

pull1D
Entries 86
Mean −0.0006784
Std Dev 1.057

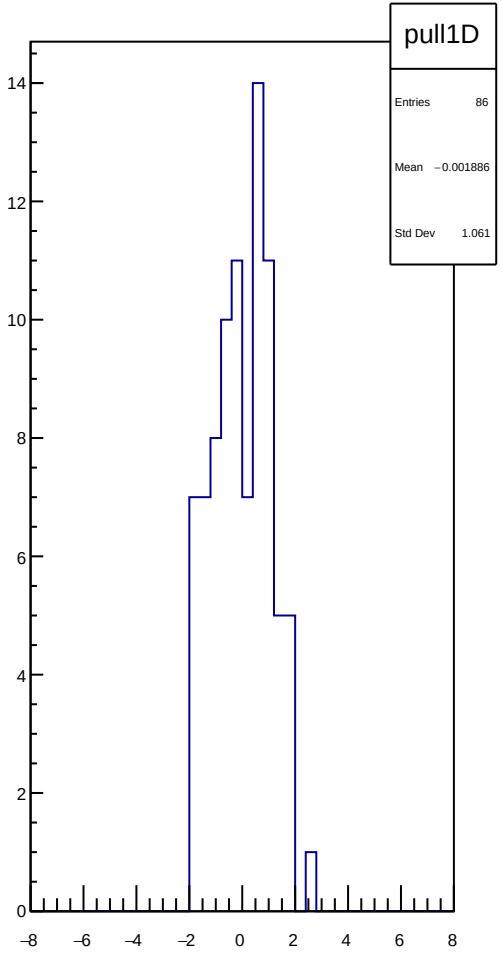

diff_targ_positionY_rms vs run
χ^2 / ndf 4858 / 85
p0 6418 ± 4.952
7200
7000
6800
6600
6400
6200
6000
5800
5600

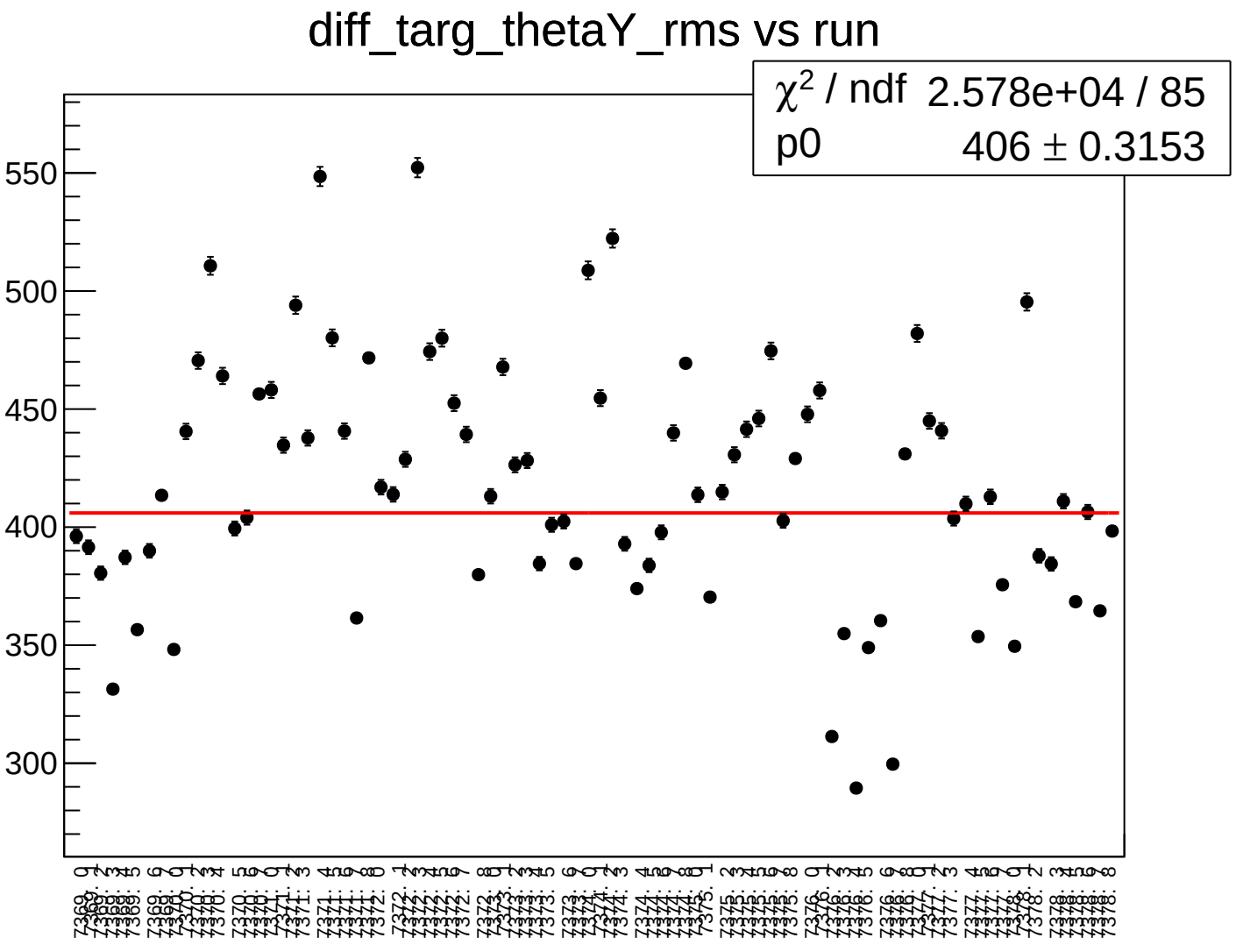

diff_targ_thetaX_mean vs run
χ² / ndf 91.33 / 85
p0 0.1158 ± 0.4498
pull
Entries 86
Mean 187.8
Std Dev 0

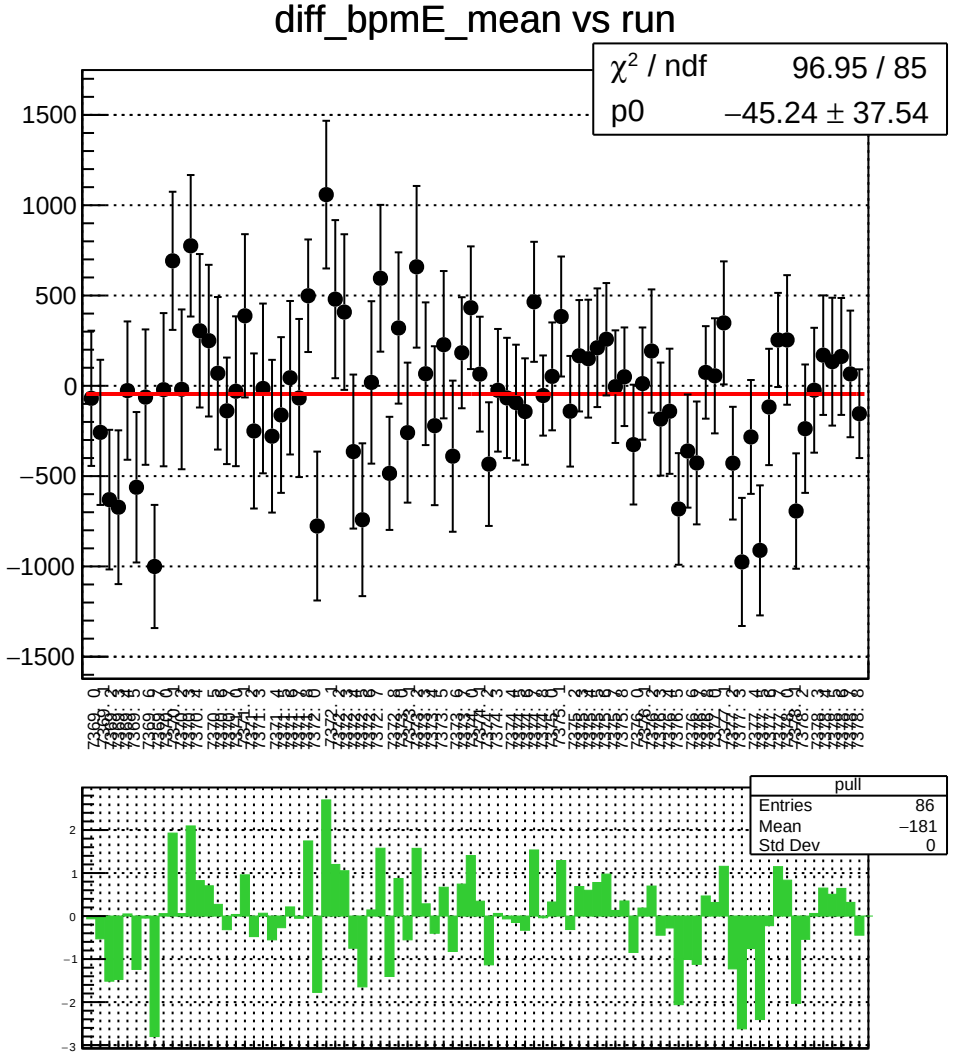

pull1D
Entries 86
Mean −0.02052
Std Dev 1.03

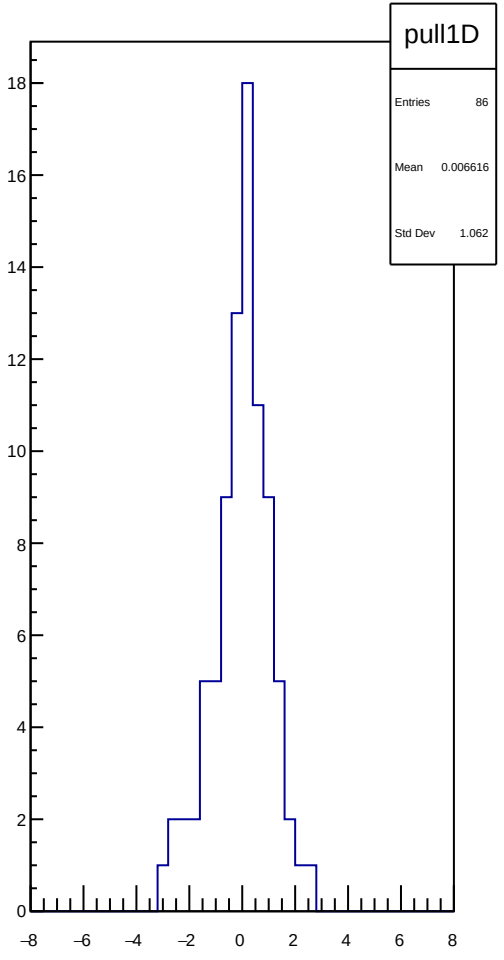

diff_targ_thetaX_rms vs run
χ² / ndf 8.22e+04 / 85
p0 402.5 ± 0.318
700
600
500
400
300
200

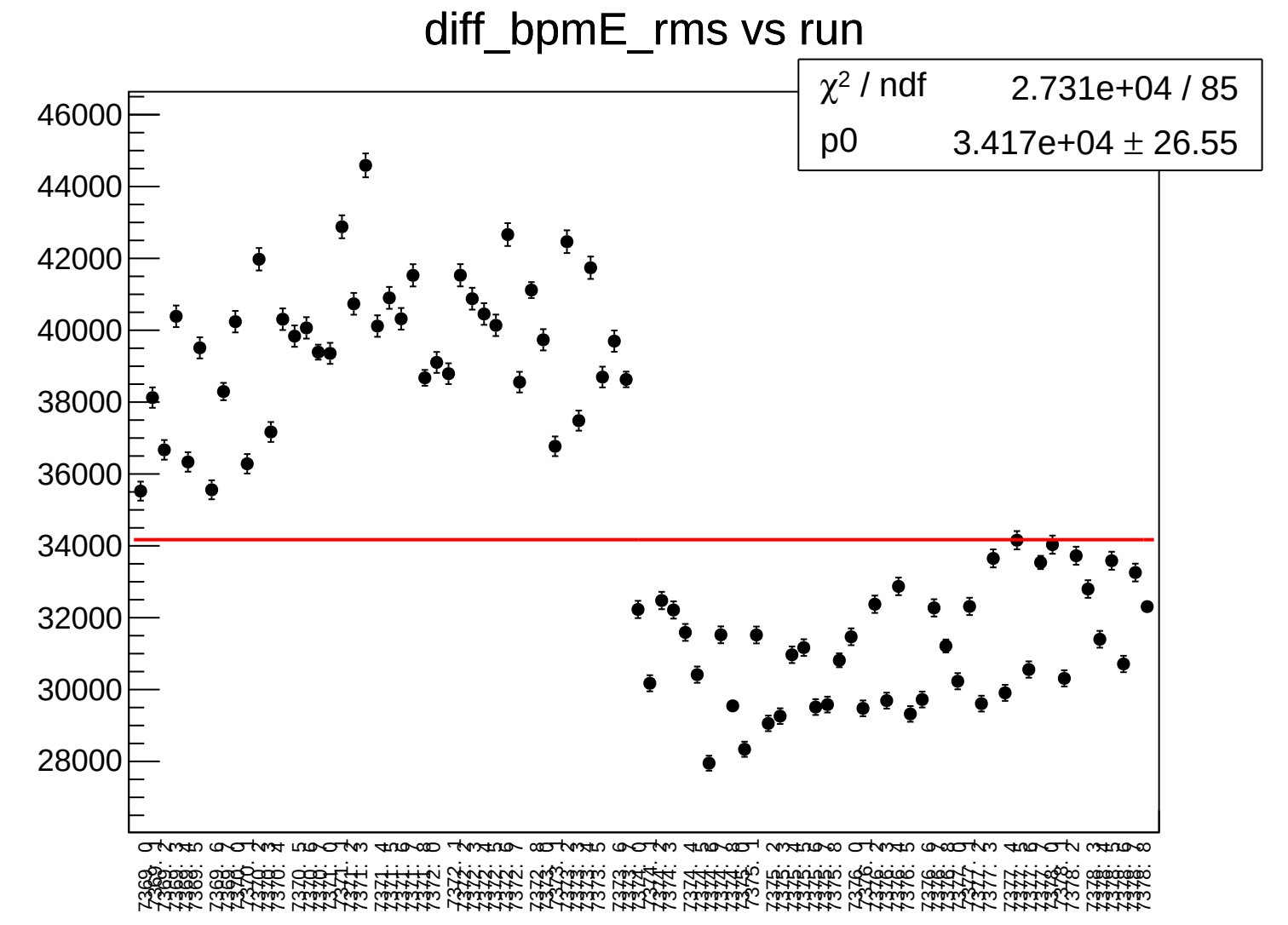

diff_targ_thetaY_mean vs run
χ² / ndf 96.87 / 85
p0 −0.2094 ± 0.4459
pull
Entries 86
Mean 124.6
Std Dev 208.1

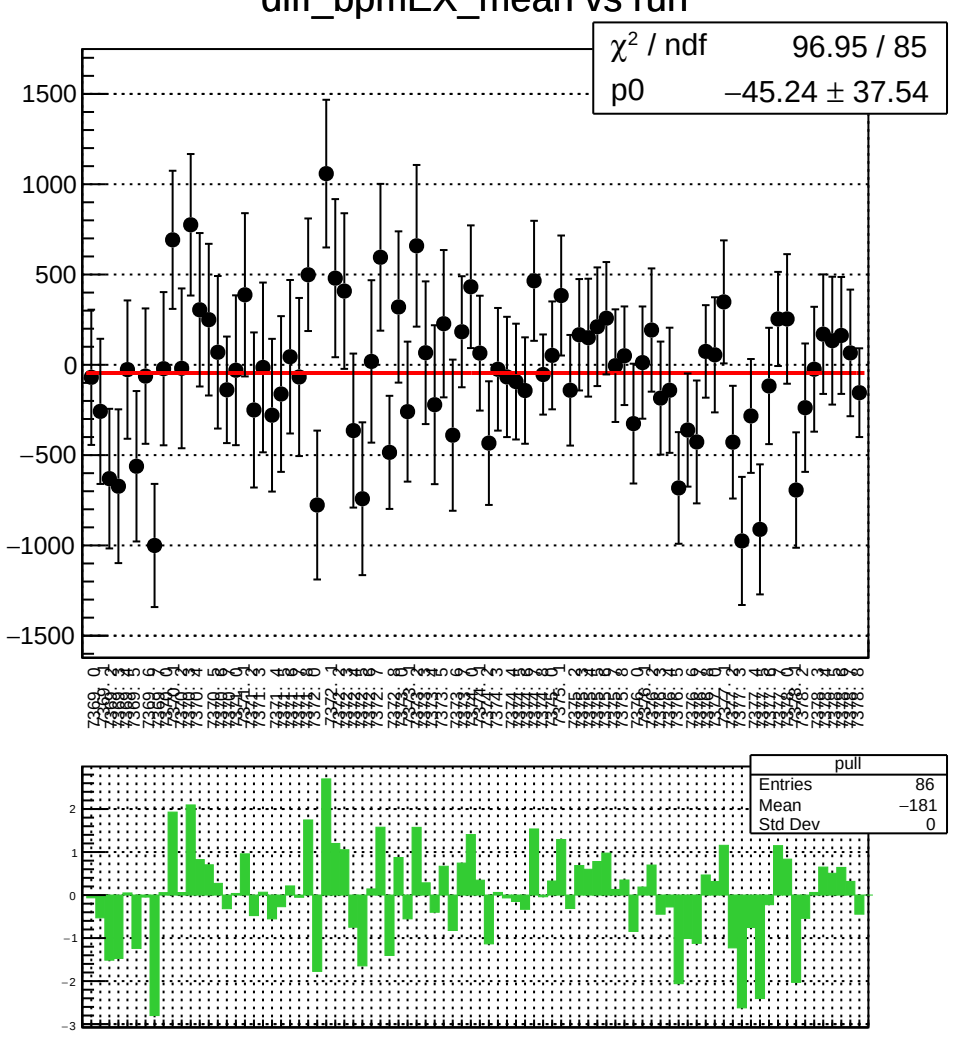

pull1D
Entries 86
Mean −0.001886
Std Dev 1.061

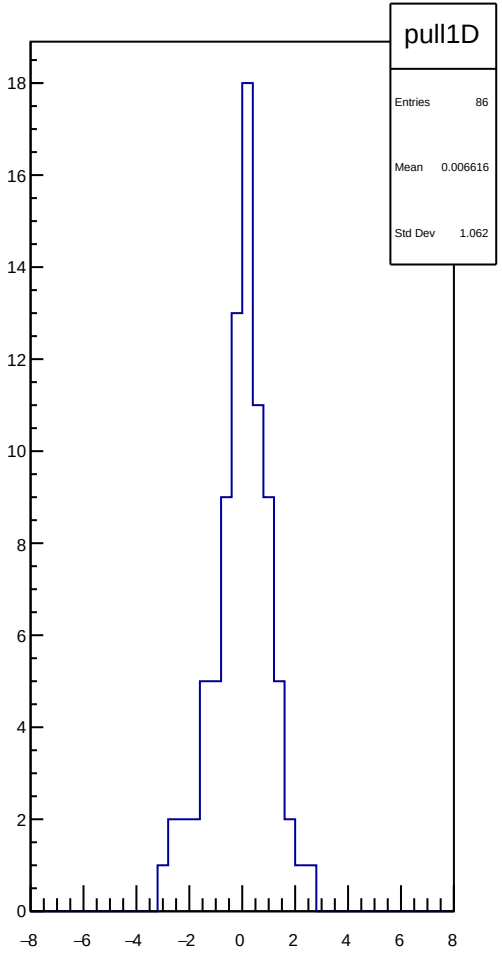

diff_targ_thetaY_rms vs run
χ² / ndf 2.578e+04 / 85
p0 406 ± 0.3153
550
500
450
400
350
300

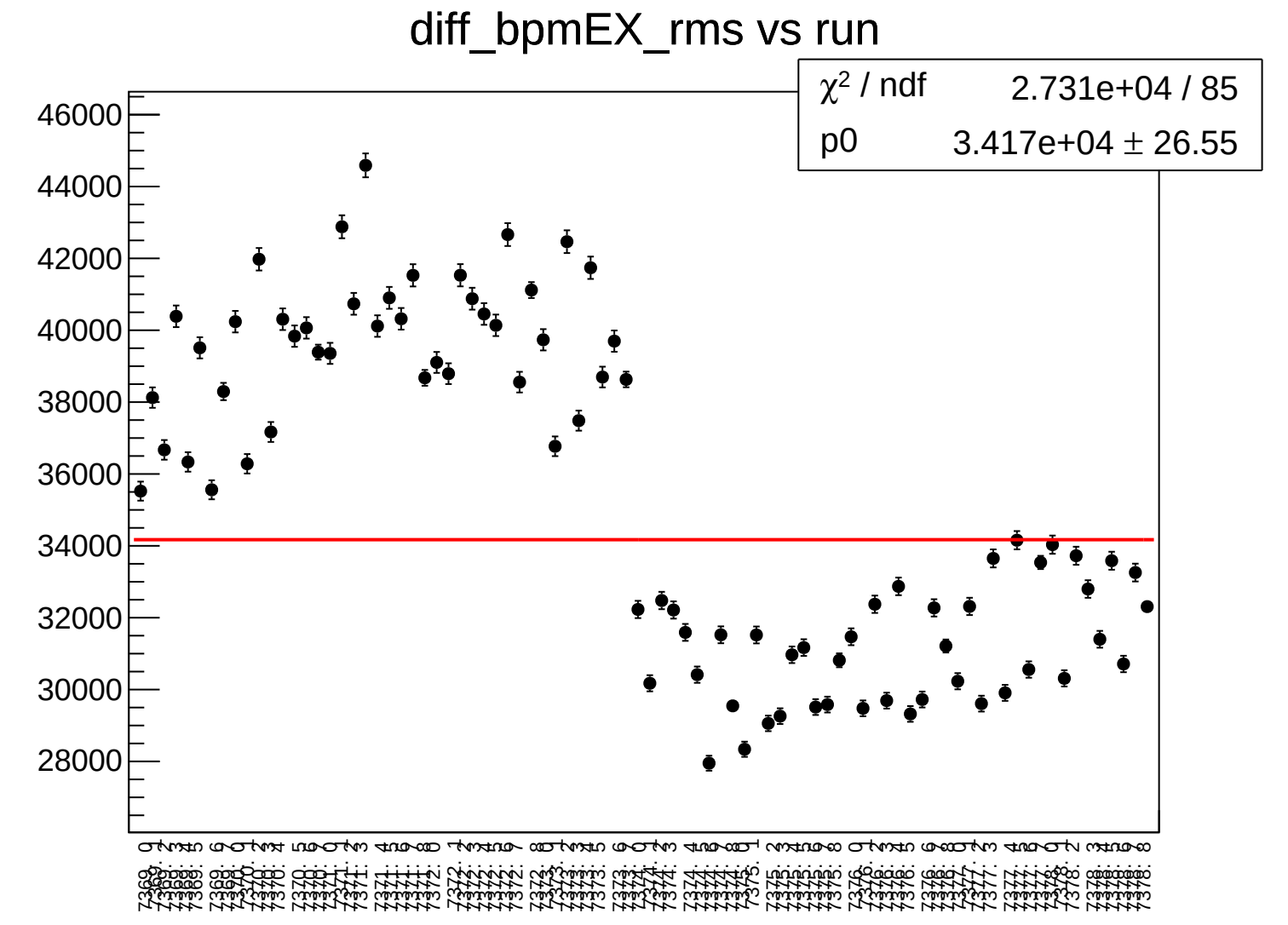

diff_bpmE_mean vs run
χ^2 / ndf 96.95 / 85
p0 −45.24 ± 37.54
pull
Entries 86
Mean −181
Std Dev 0

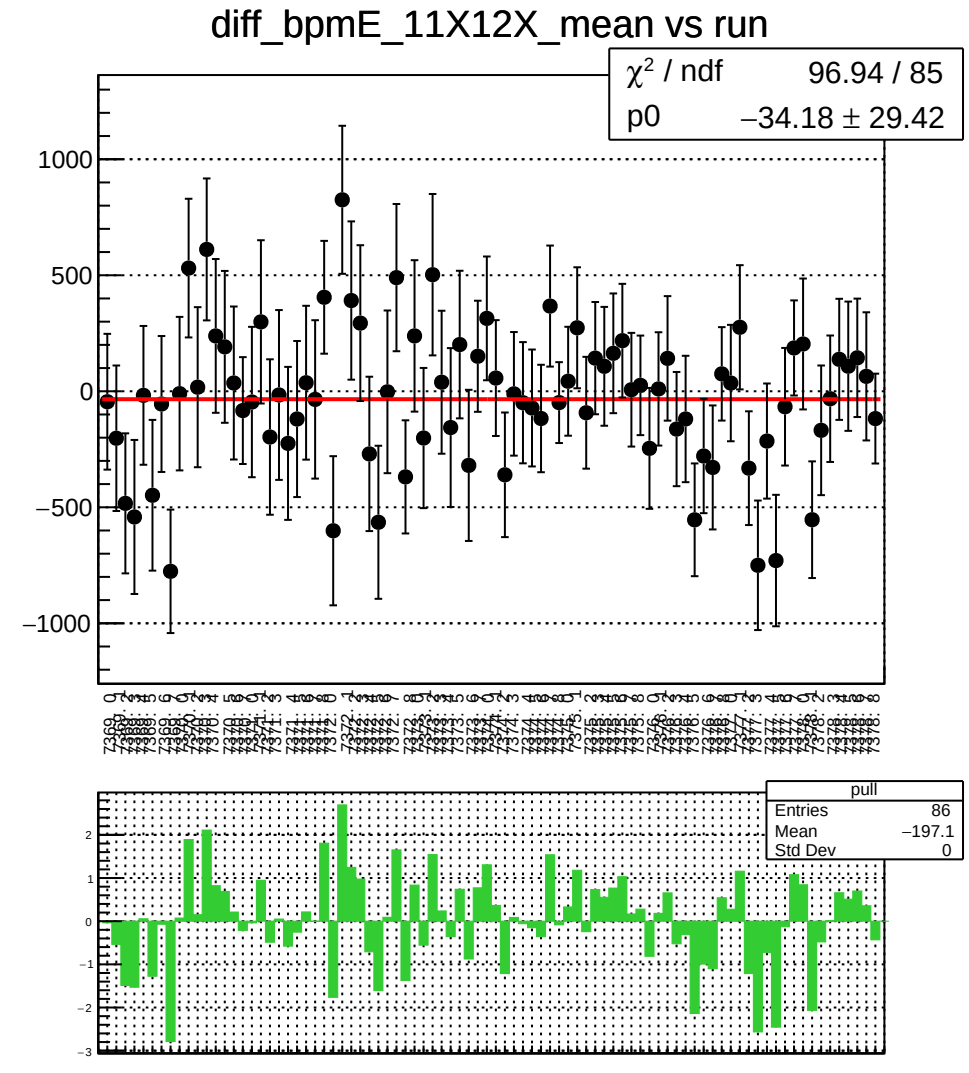

pull1D
Entries 86
Mean 0.006616
Std Dev 1.062

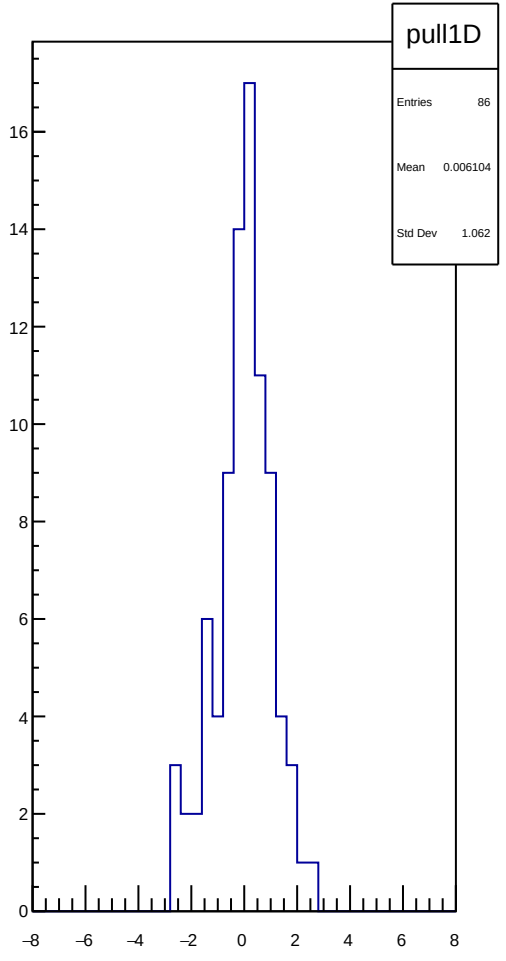

diff_bpmE_rms vs run
χ² / ndf 2.731e+04 / 85
p0 3.417e+04 ± 26.55
46000
44000
42000
40000
38000
36000
34000
32000
30000
28000

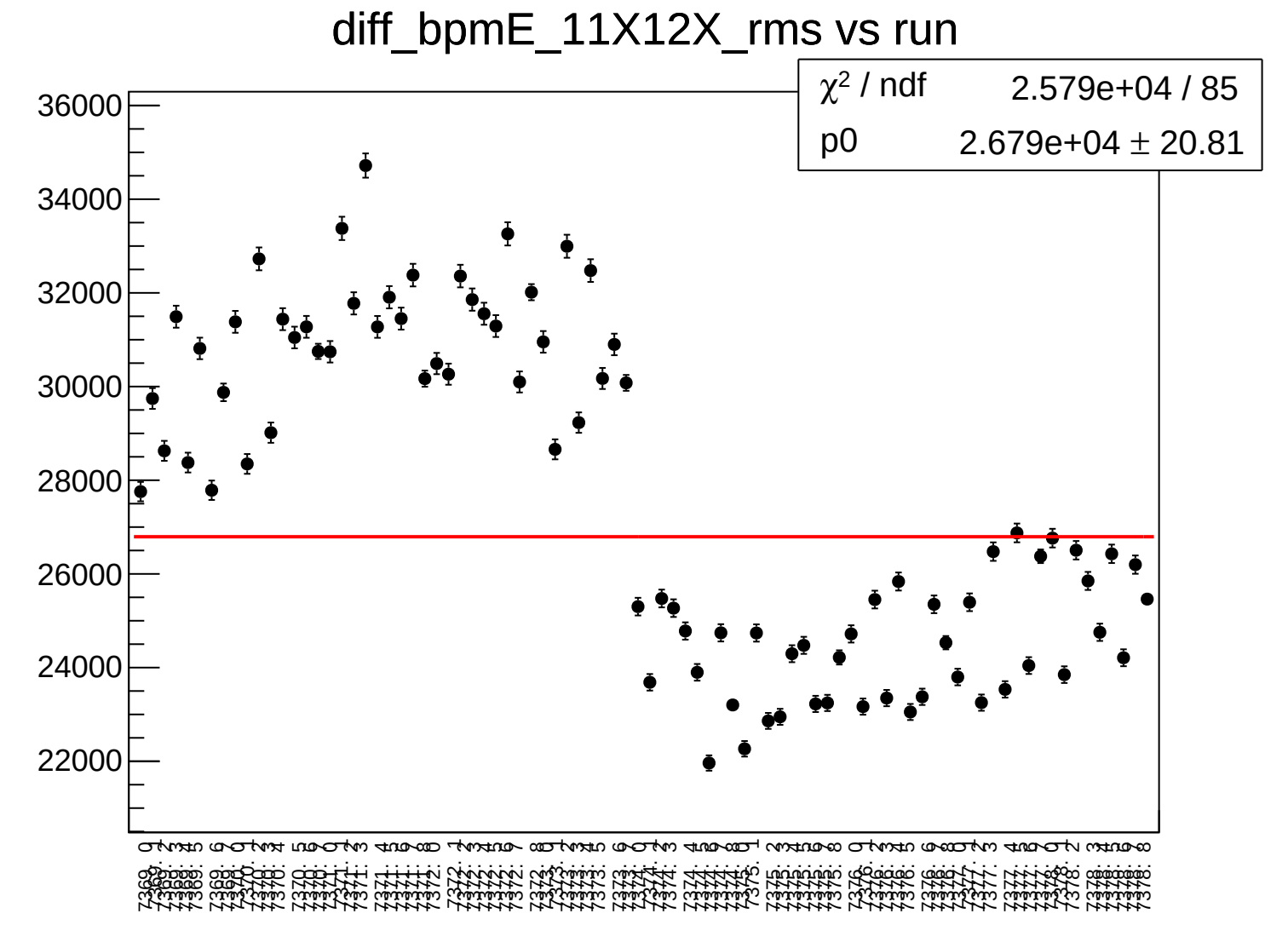

diff_bpmEX_mean vs run
χ² / ndf 96.95 / 85
p0 −45.24 ± 37.54
pull
Entries 86
Mean −181
Std Dev 0

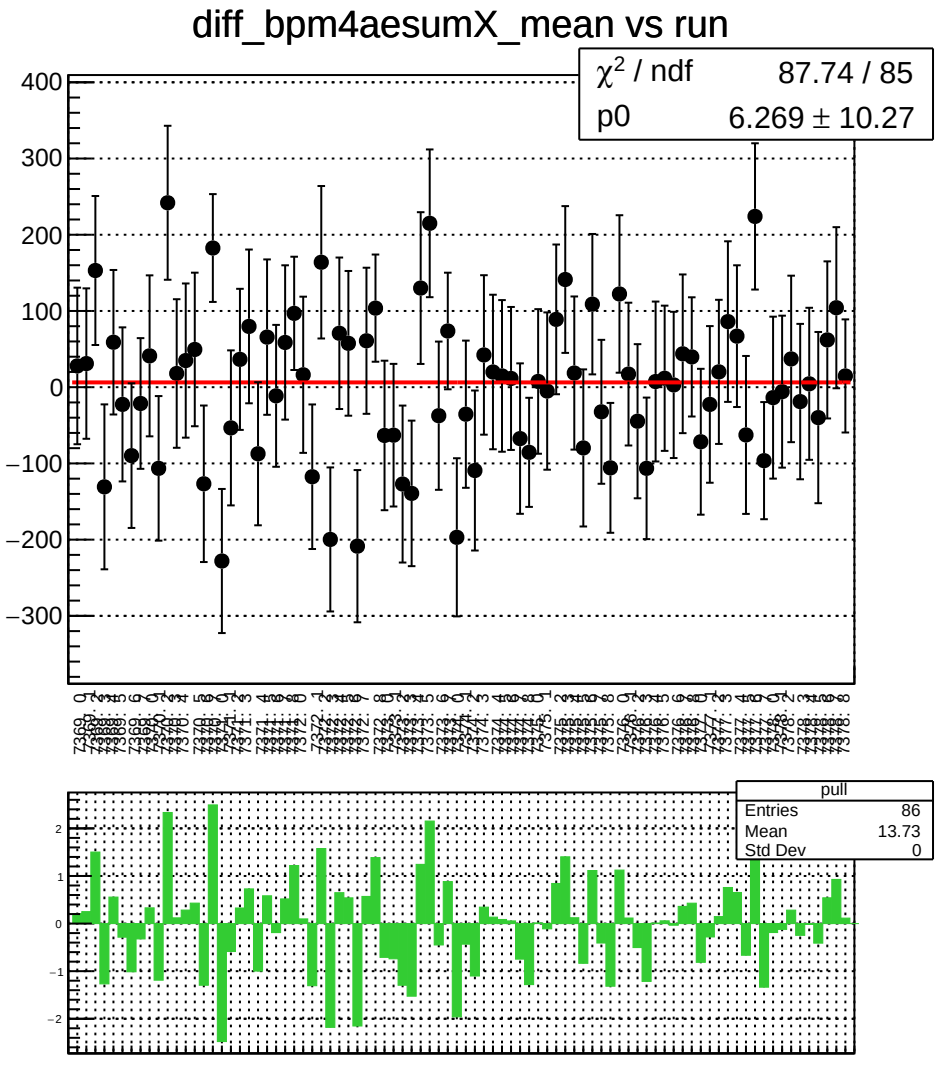

pull1D
Entries 86
Mean 0.006616
Std Dev 1.062

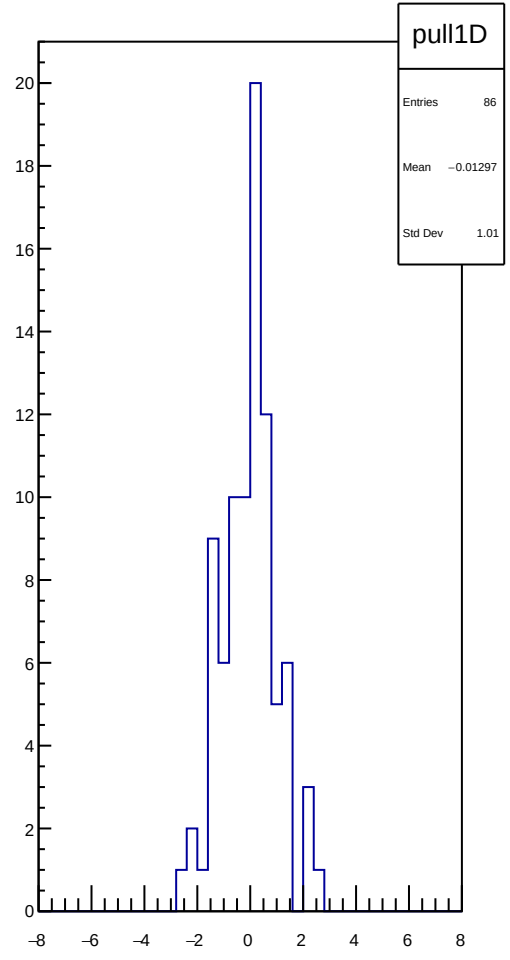

diff_bpmEX_rms vs run
χ² / ndf 2.731e+04 / 85
p0 3.417e+04 ± 26.55
46000
44000
42000
40000
38000
36000
34000
32000
30000
28000

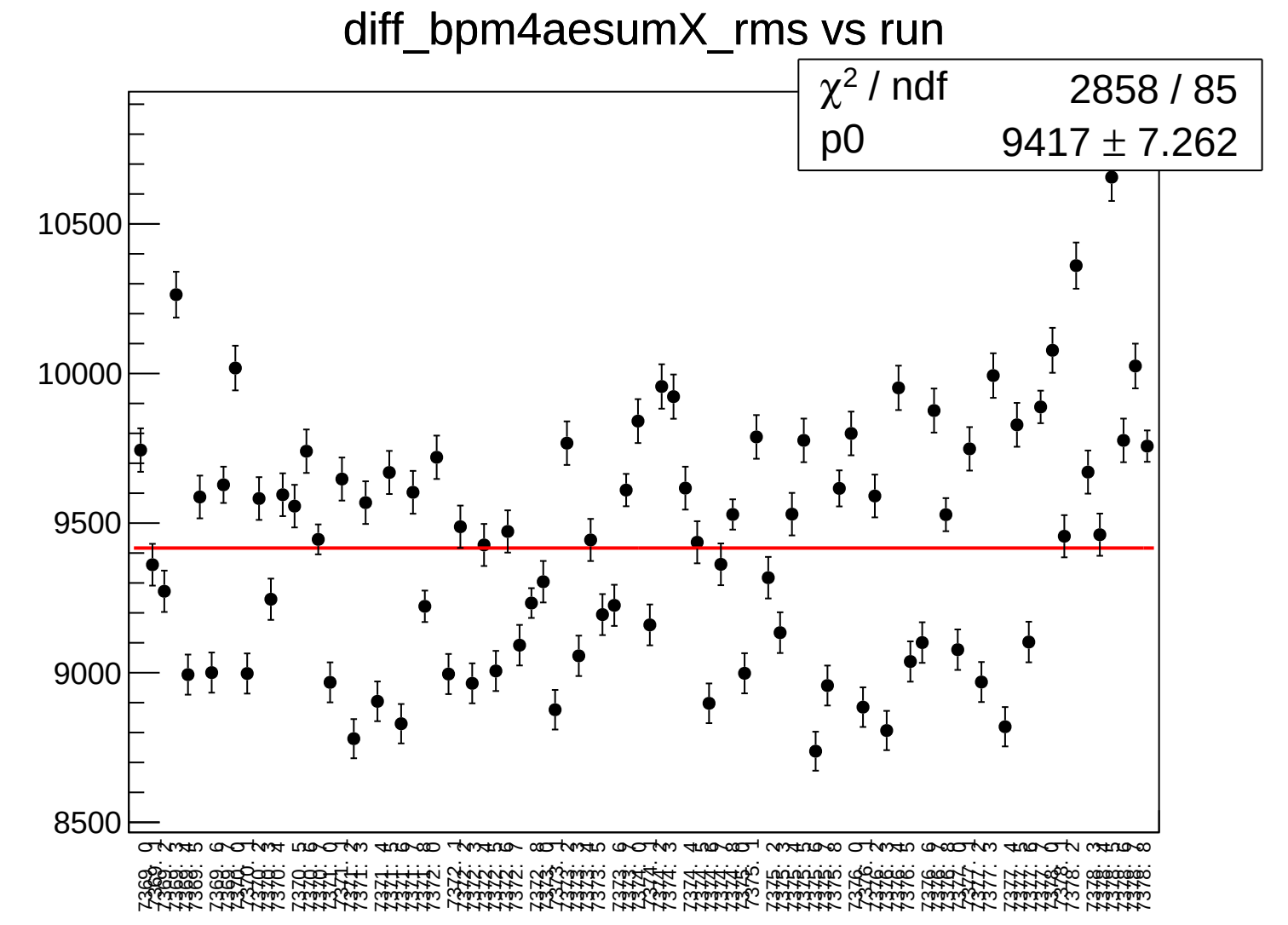

diff_bpmE_11X12X_mean vs run
χ² / ndf 96.94 / 85
p0 −34.18 ± 29.42
1000
500
0
−500
−1000
pull
Entries 86
Mean −197.1
Std Dev 0
2
1
0
−1
−2
−3

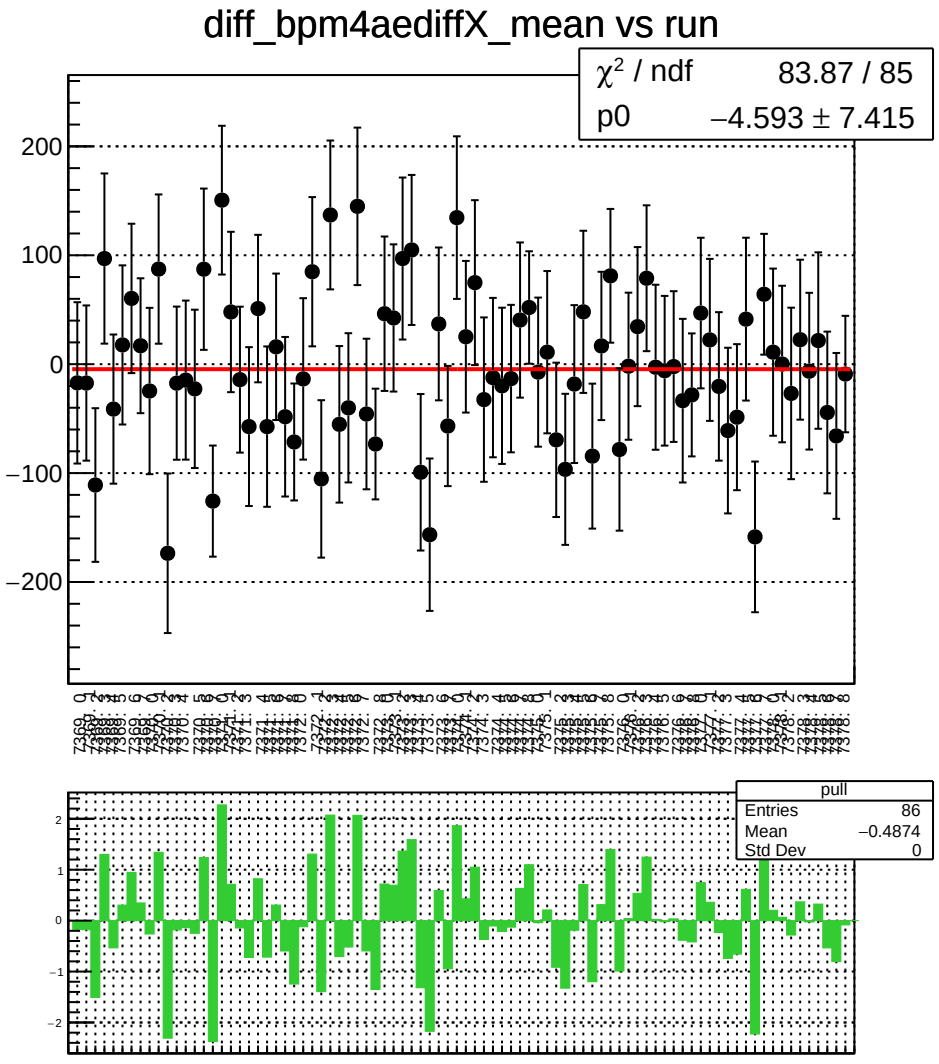

pull1D
Entries 86
Mean 0.006104
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

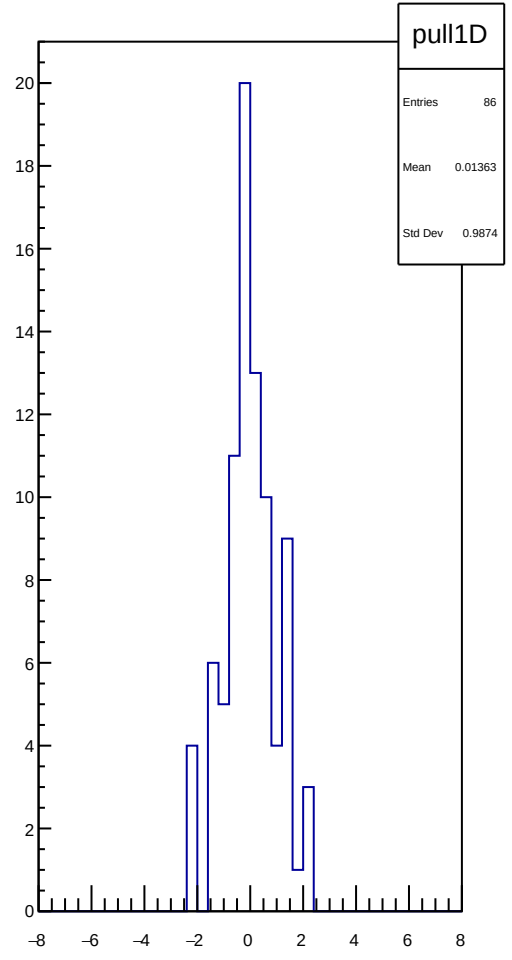

diff_bpmE_11X12X_rms vs run
χ² / ndf 2.579e+04 / 85
p0 2.679e+04 ± 20.81
36000
34000
32000
30000
28000
26000
24000
22000

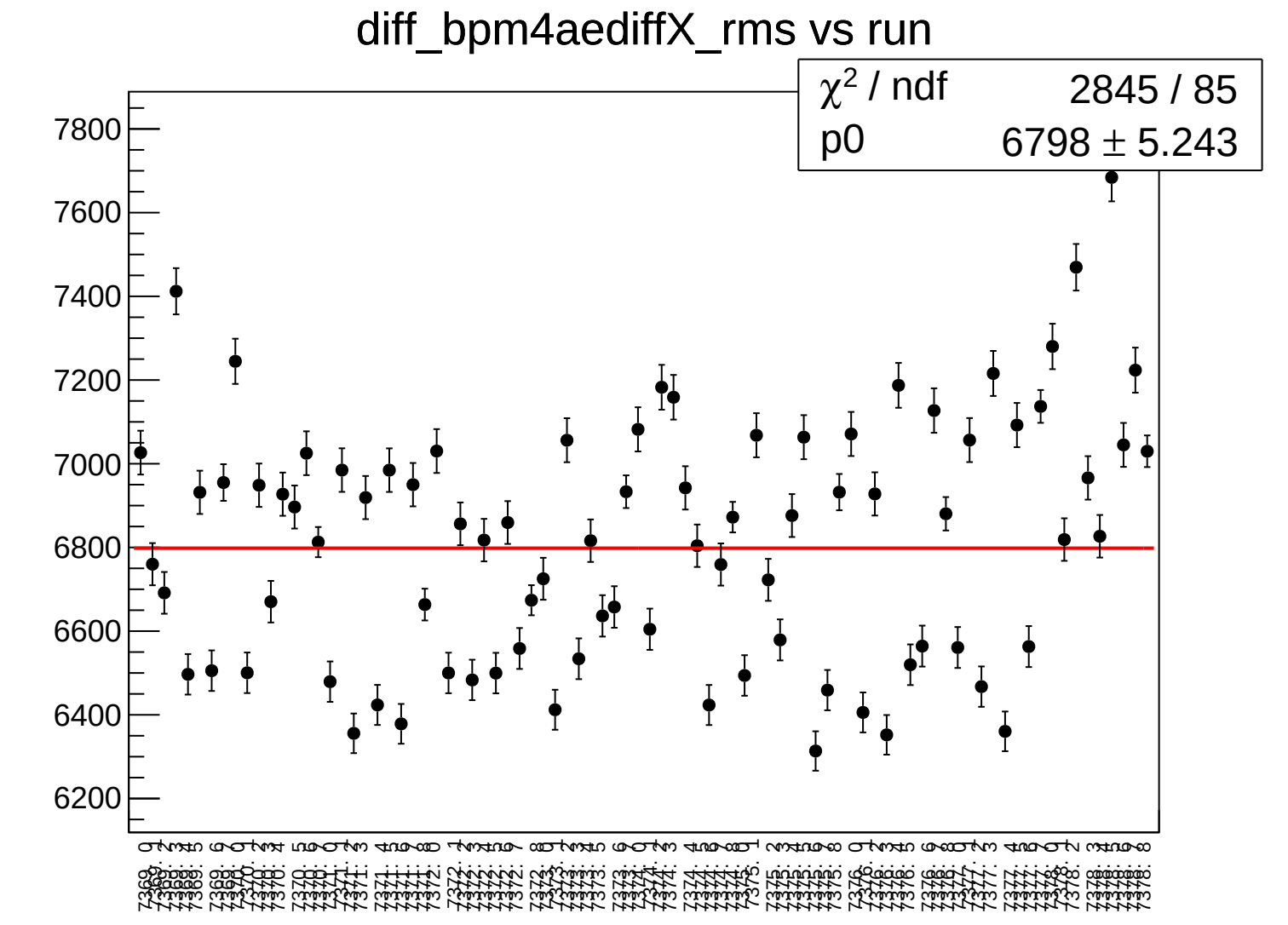

diff_bpm4aesumX_mean vs run
χ² / ndf 87.74 / 85
p0 6.269 ± 10.27
pull
Entries 86
Mean 13.73
Std Dev 0

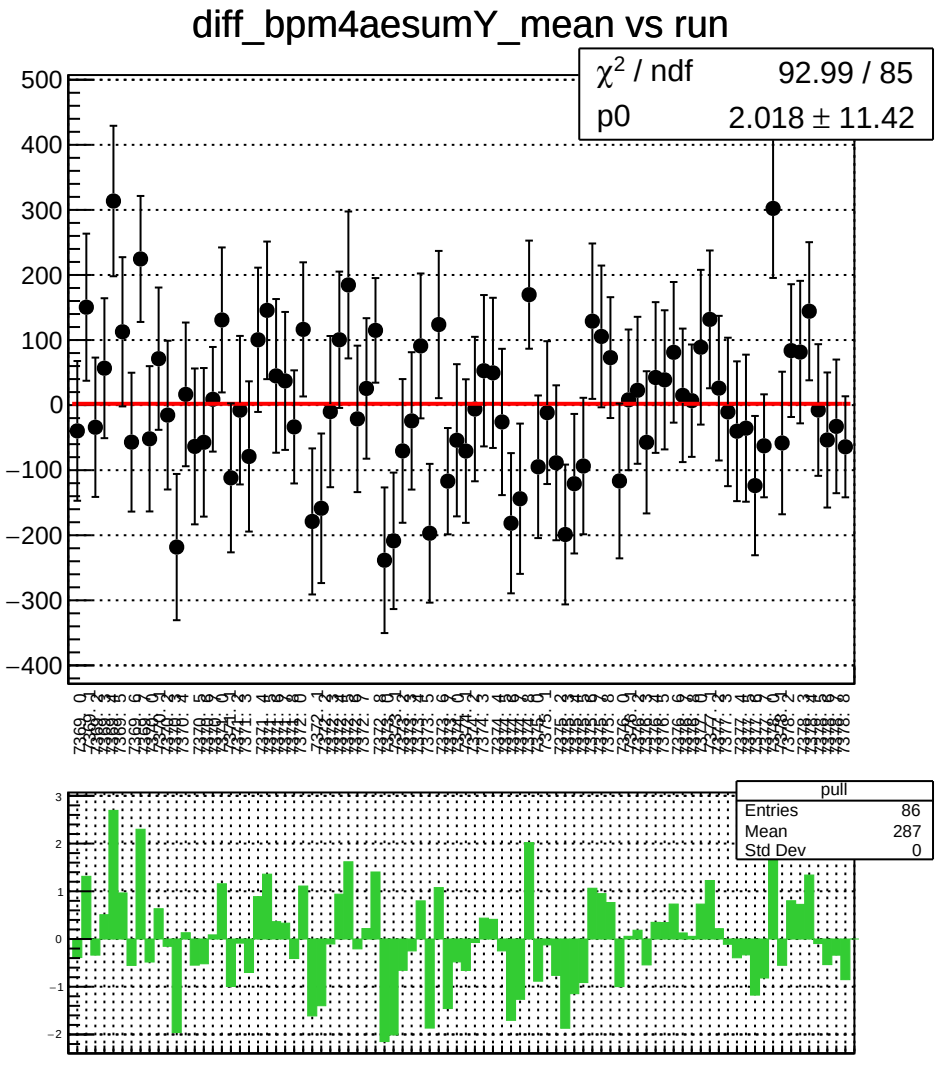

pull1D
Entries 86
Mean −0.01297
Std Dev 1.01

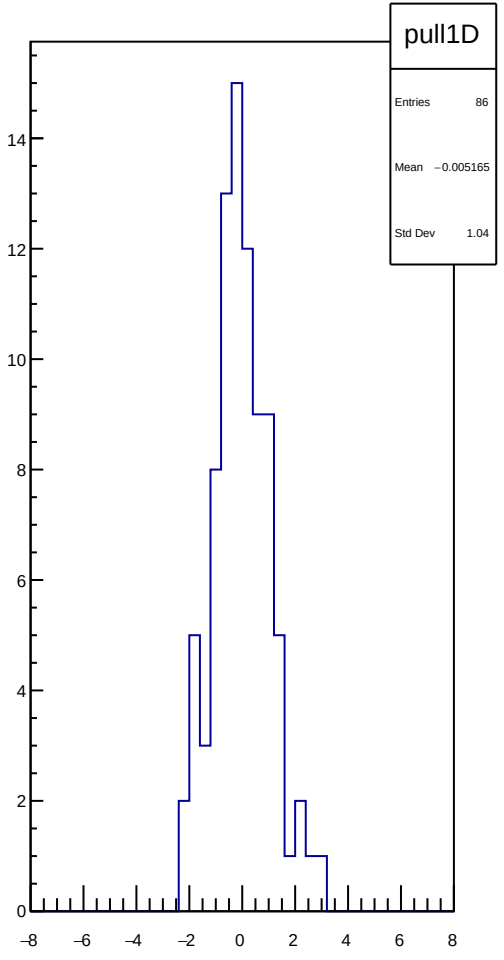

diff_bpm4aesumX_rms vs run
χ² / ndf 2858 / 85
p0 9417 ± 7.262
10500
10000
9500
9000
8500

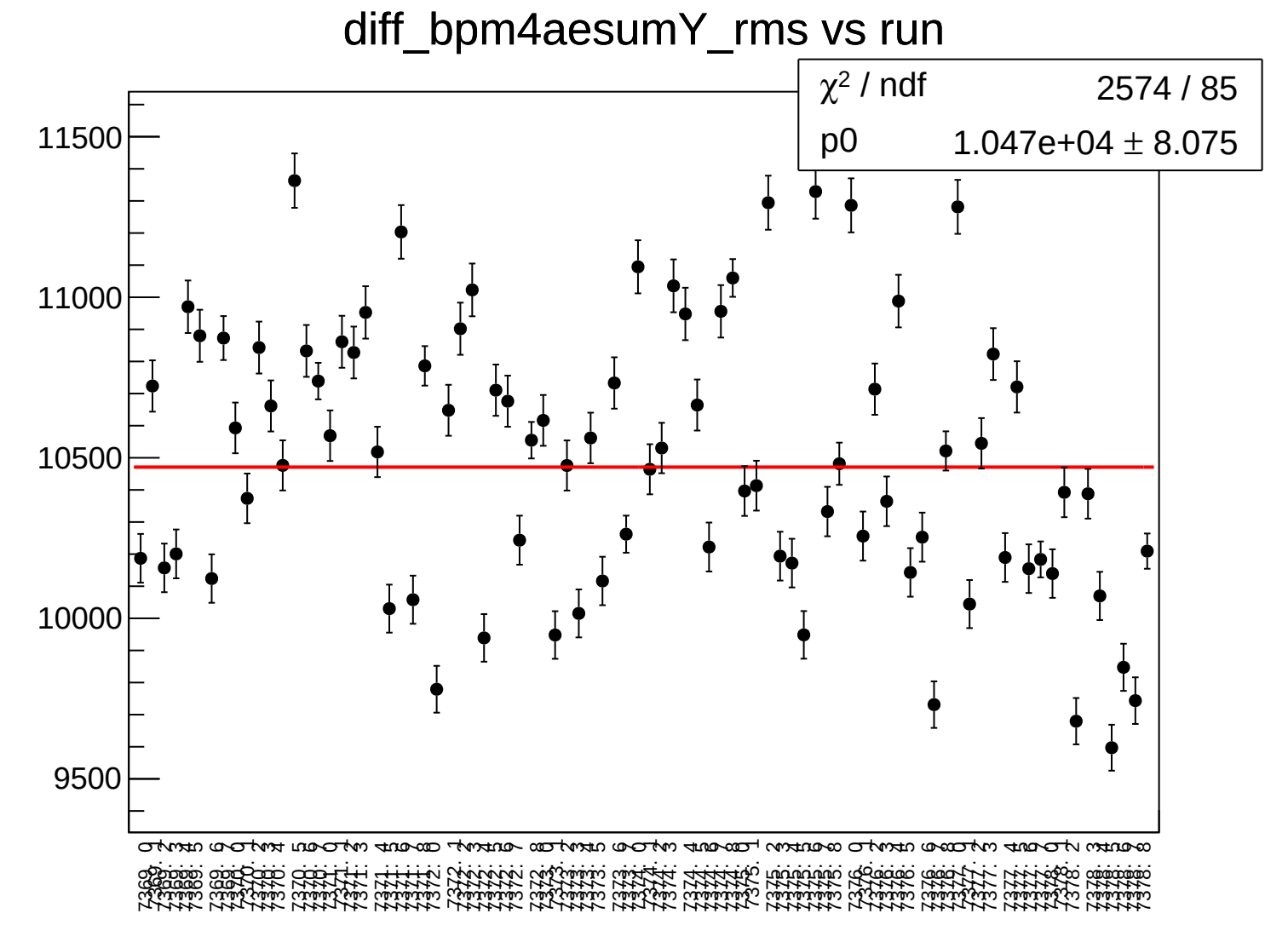

diff_bpm4aediffX_mean vs run
χ² / ndf 83.87 / 85
p0 −4.593 ± 7.415
200
100
0
−100
−200
pull
Entries 86
Mean −0.4874
Std Dev 0
2
1
0
−1
−2

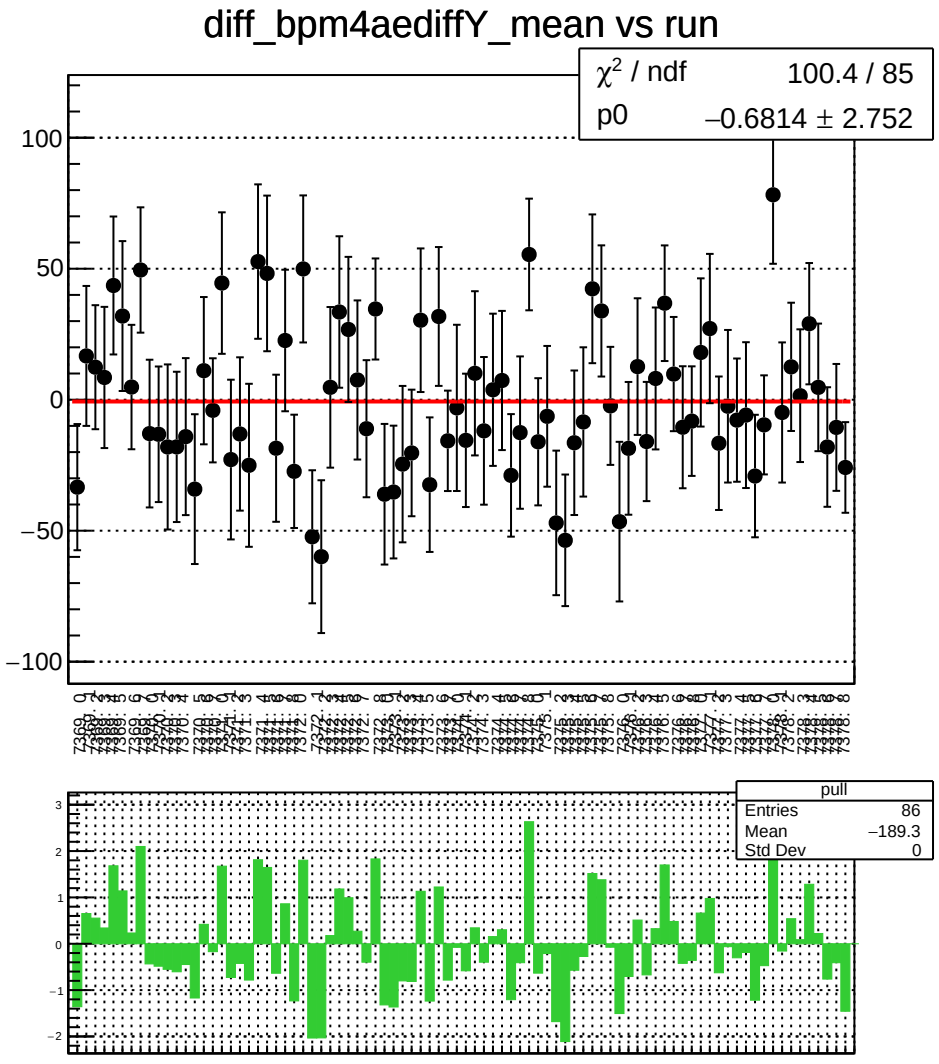

pull1D
Entries 86
Mean 0.01363
Std Dev 0.9874
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

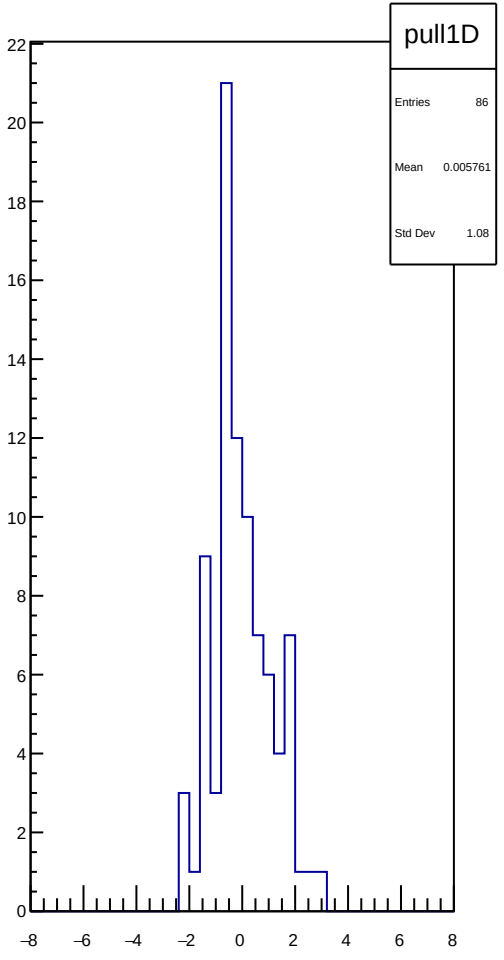

diff_bpm4aediffX_rms vs run
χ² / ndf 2845 / 85
p0 6798 ± 5.243
7800
7600
7400
7200
7000
6800
6600
6400
6200

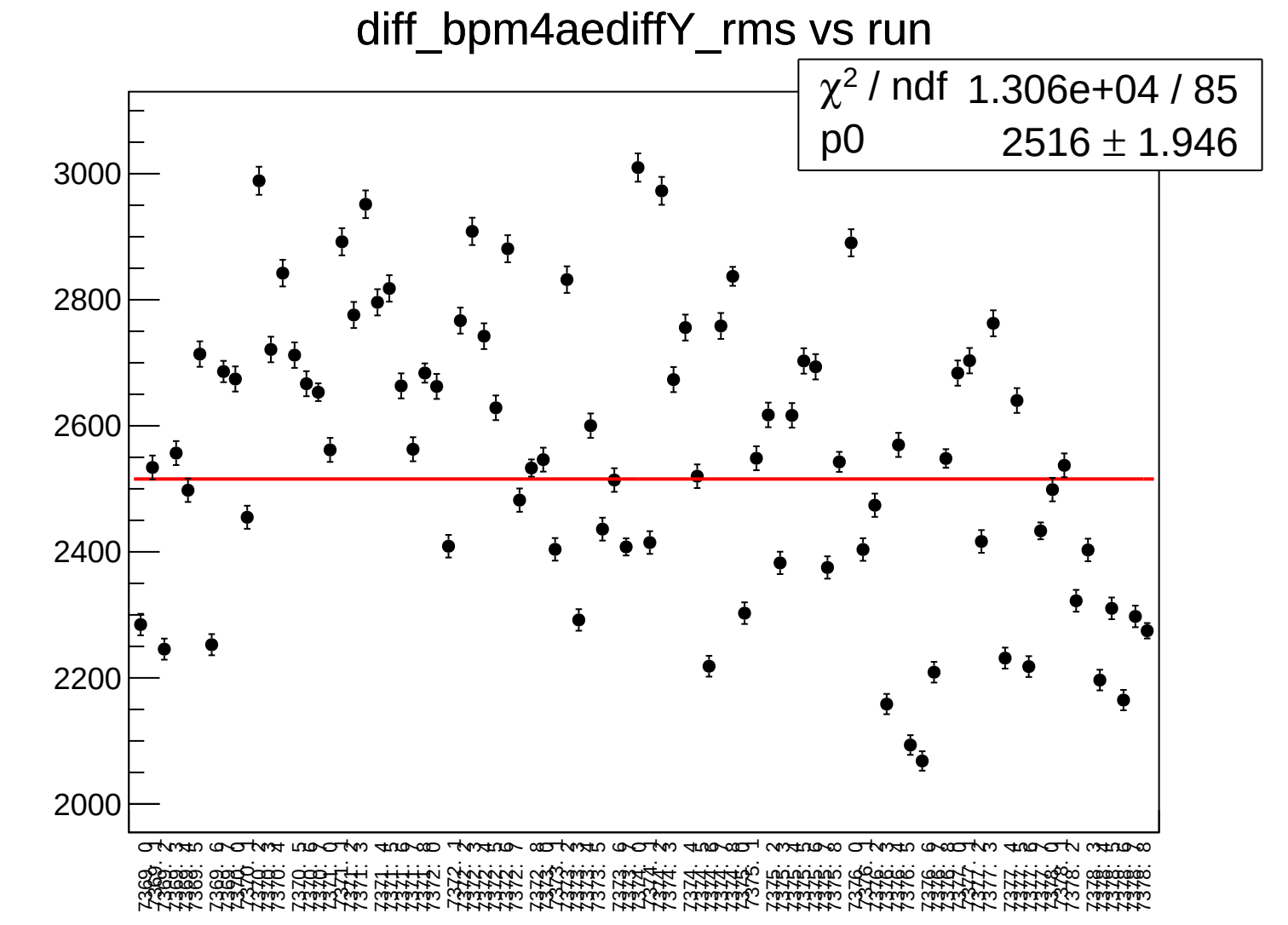

diff_bpm4aesumY_mean vs run
χ² / ndf 92.99 / 85
p0 2.018 ± 11.42
pull
Entries 86
Mean 287
Std Dev 0

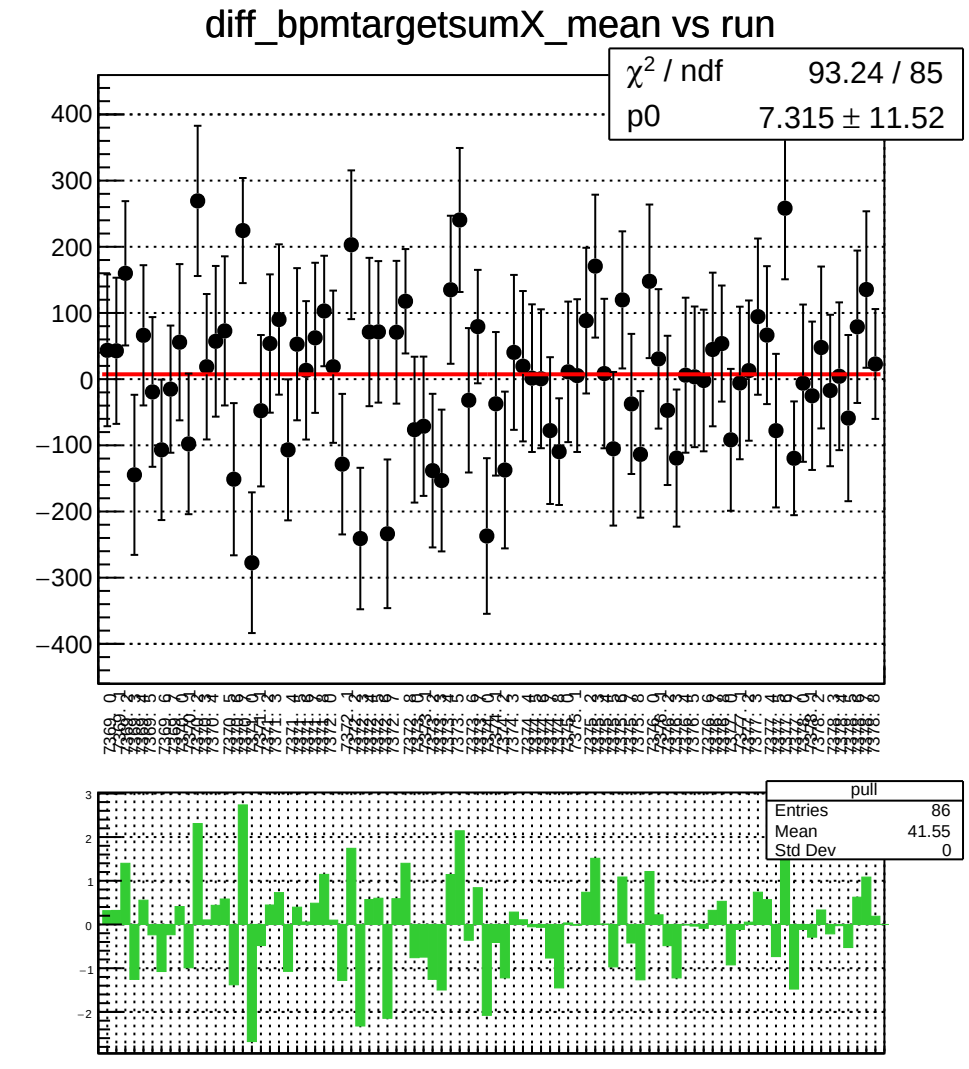

pull1D
Entries 86
Mean −0.005165
Std Dev 1.04

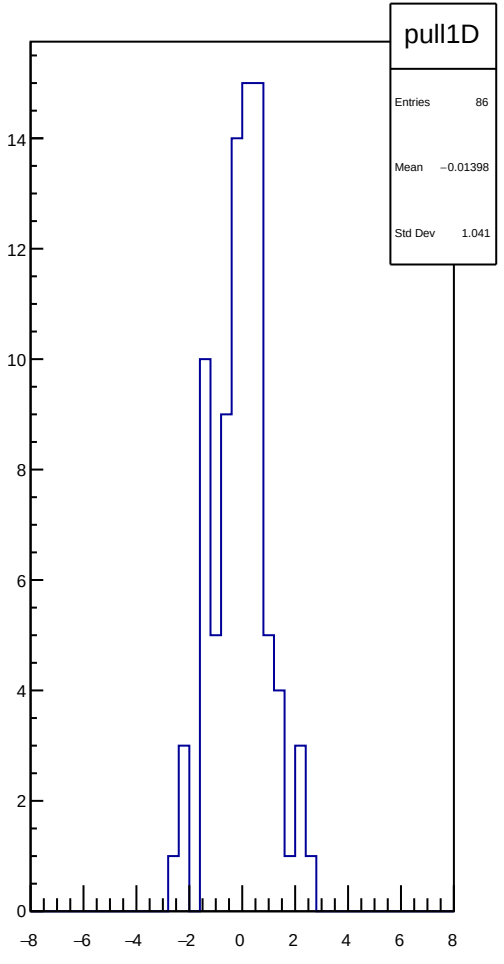

diff_bpm4aesumY_rms vs run
χ² / ndf 2574 / 85
p0 1.047e+04 ± 8.075
11500
11000
10500
10000
9500

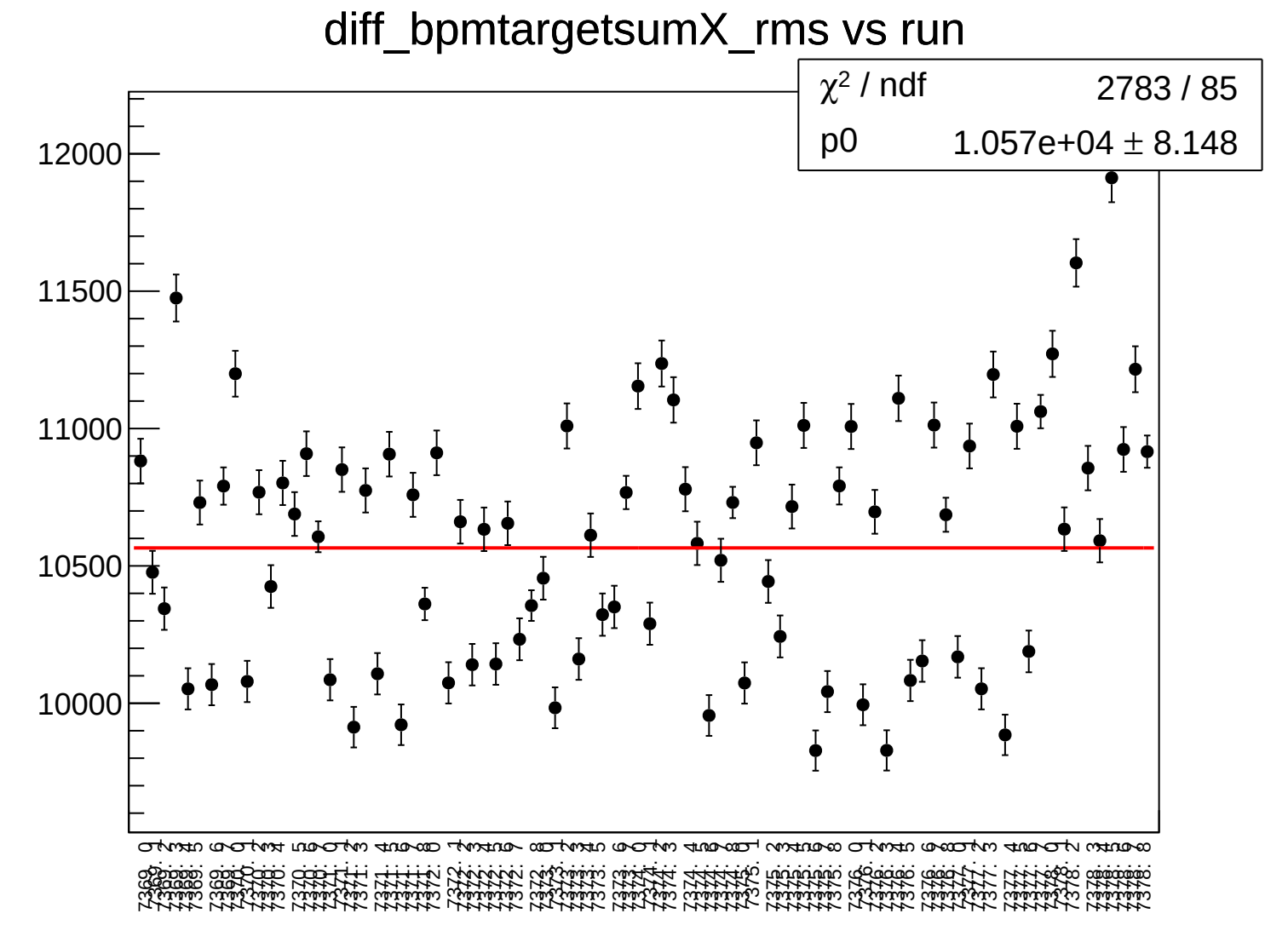

diff_bpm4aediffY_mean vs run
χ² / ndf 100.4 / 85
p0 −0.6814 ± 2.752
100
50
0
−50
−100
pull
Entries 86
Mean −189.3
Std Dev 0
3
2
1
0
−1
−2

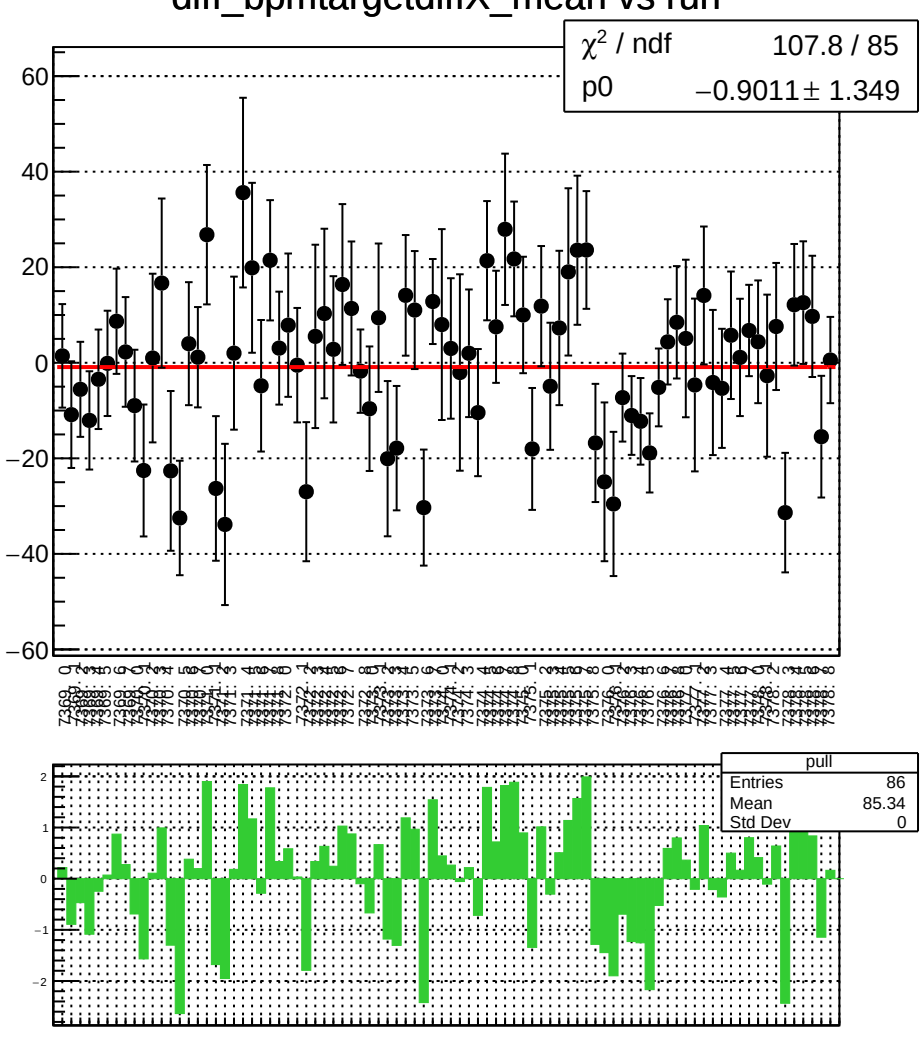

pull1D
Entries 86
Mean 0.005761
Std Dev 1.08
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

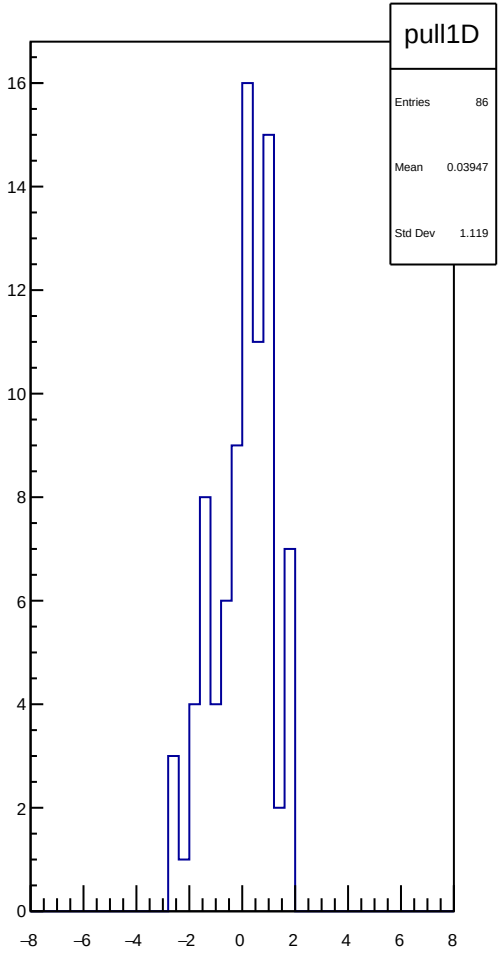

diff_bpm4aediffY_rms vs run
χ² / ndf 1.306e+04 / 85
p0 2516 ± 1.946
3000
2800
2600
2400
2200
2000

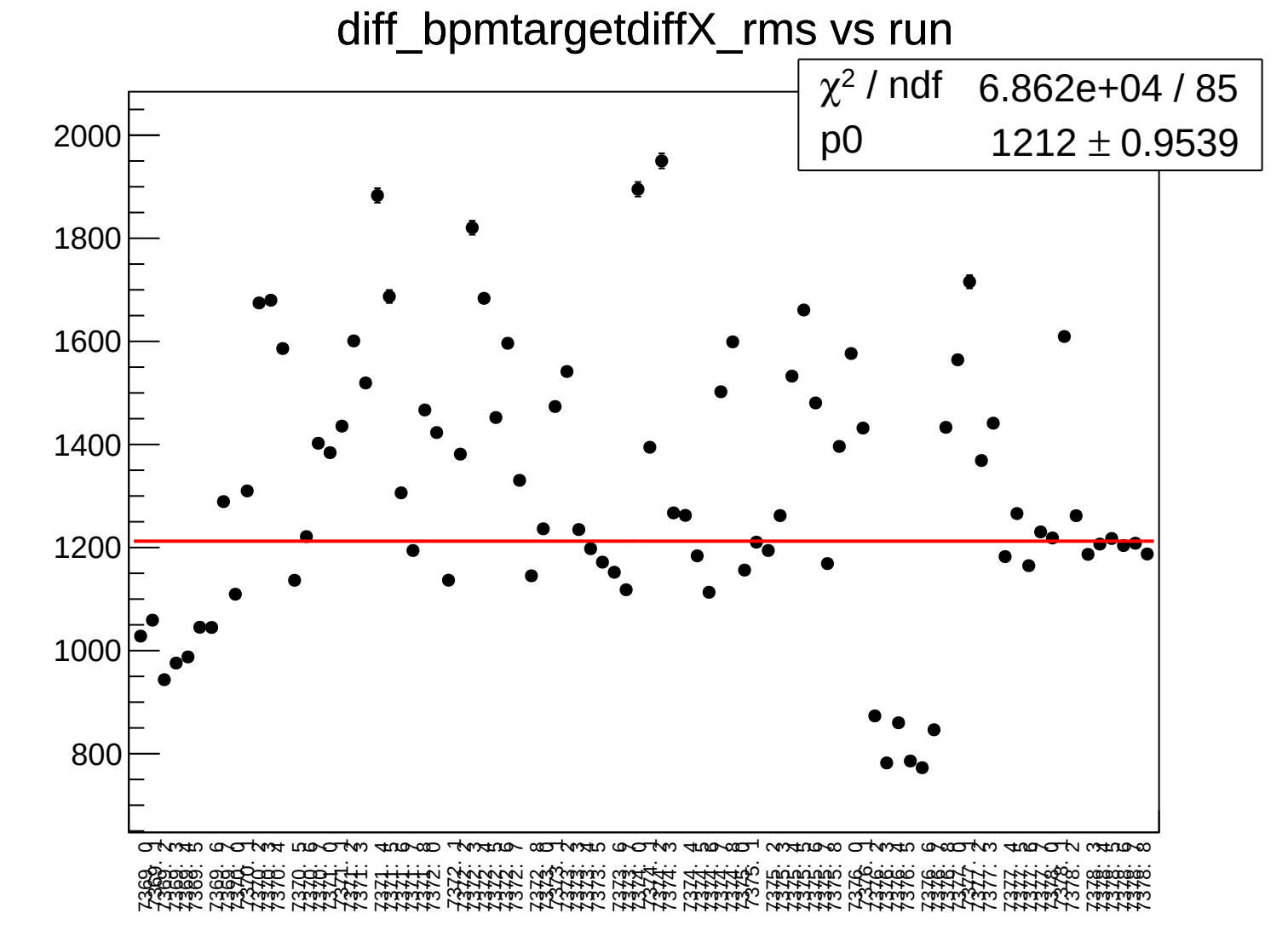

diff_bpmtargetsumX_mean vs run
χ² / ndf 93.24 / 85
p0 7.315 ± 11.52
pull
Entries 86
Mean 41.55
Std Dev 0

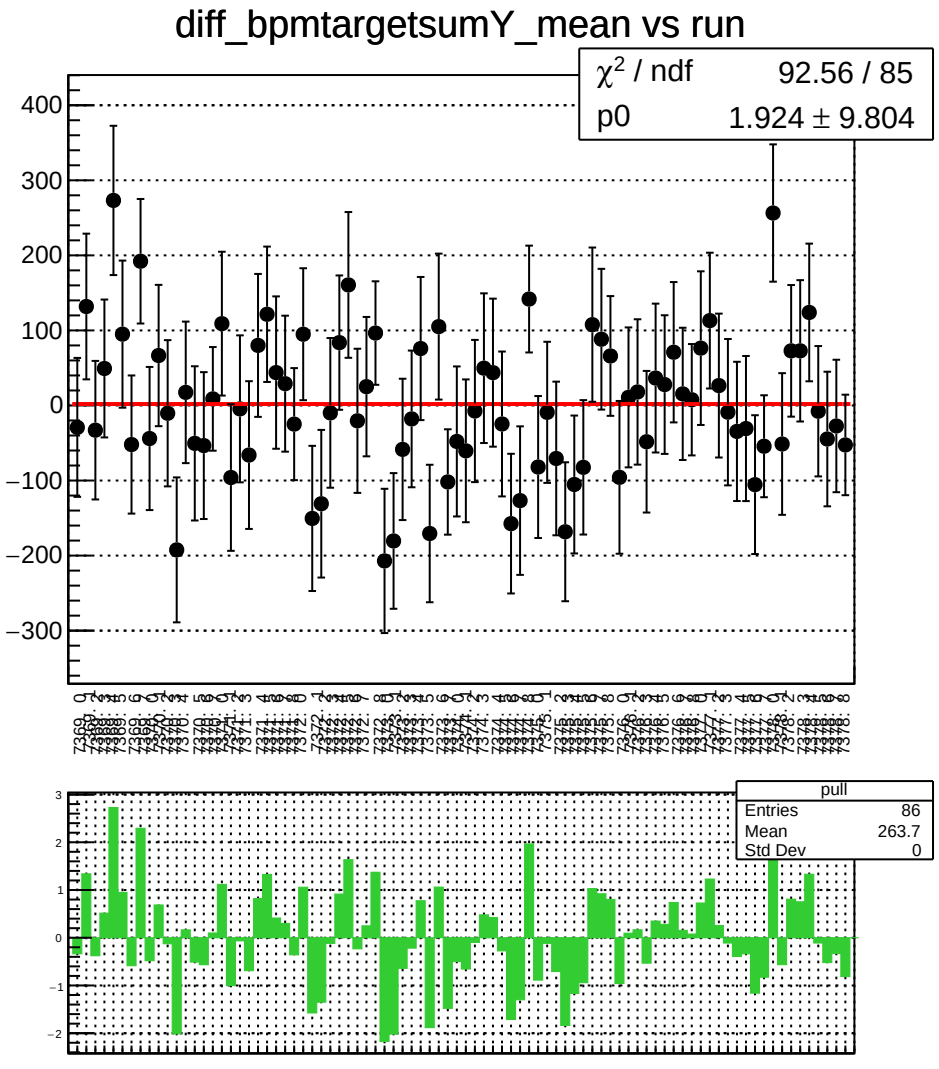

pull1D
Entries 86
Mean −0.01398
Std Dev 1.041

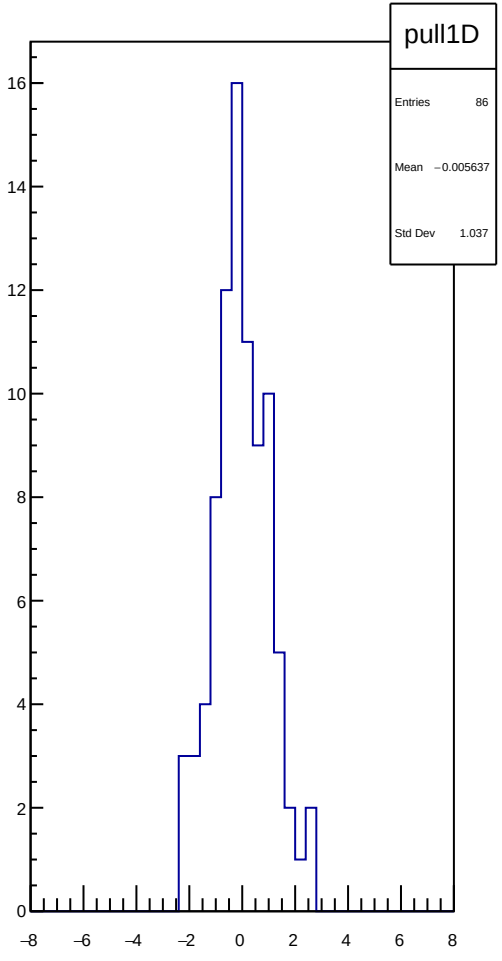

diff_bpmtargetsumX_rms vs run
χ² / ndf 2783 / 85
p0 1.057e+04 ± 8.148
12000
11500
11000
10500
10000

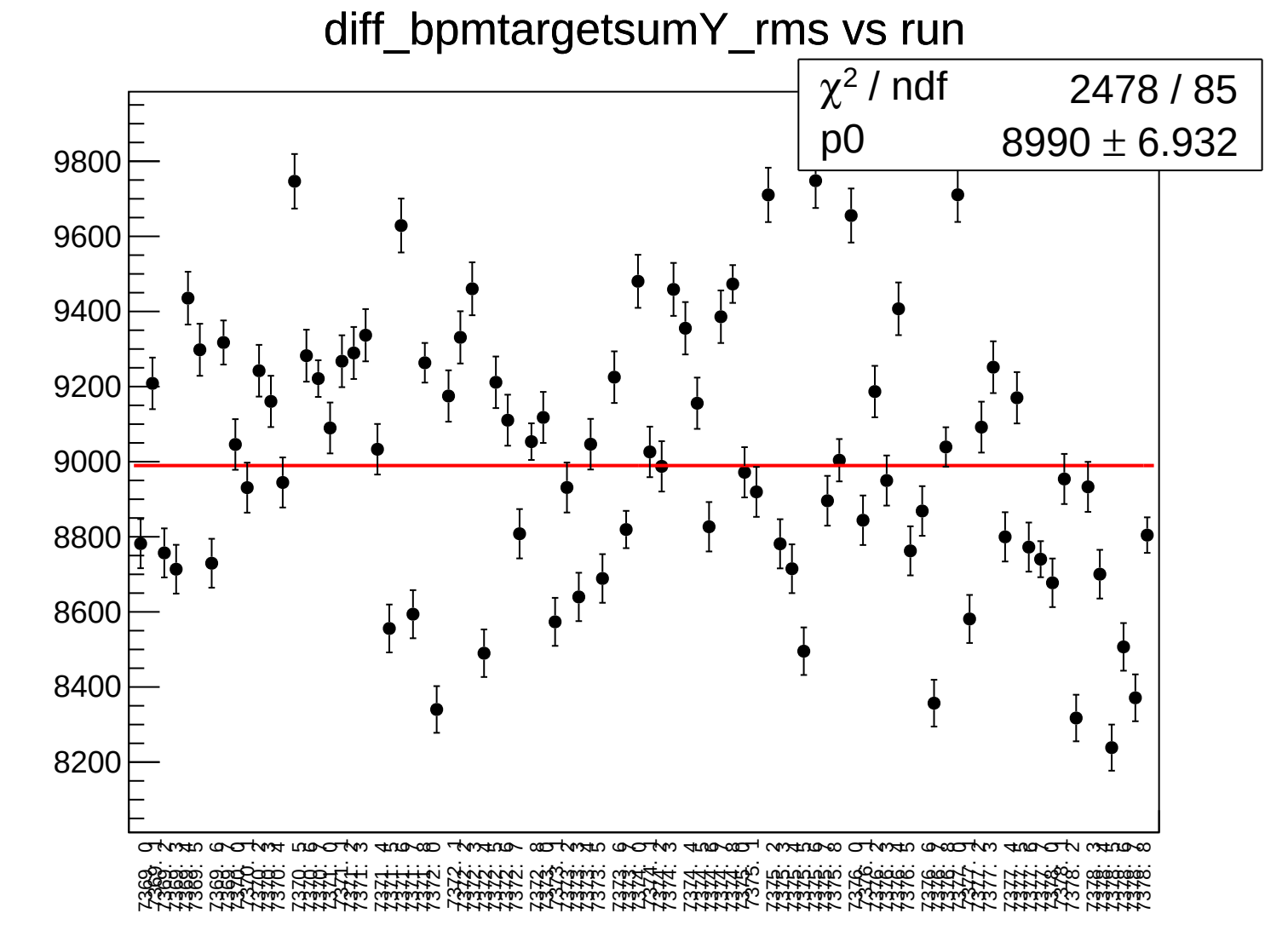

diff_bpmtargetdiffX_mean vs run
χ² / ndf 107.8 / 85
p0 −0.9011 ± 1.349
pull
Entries 86
Mean 85.34
Std Dev 0

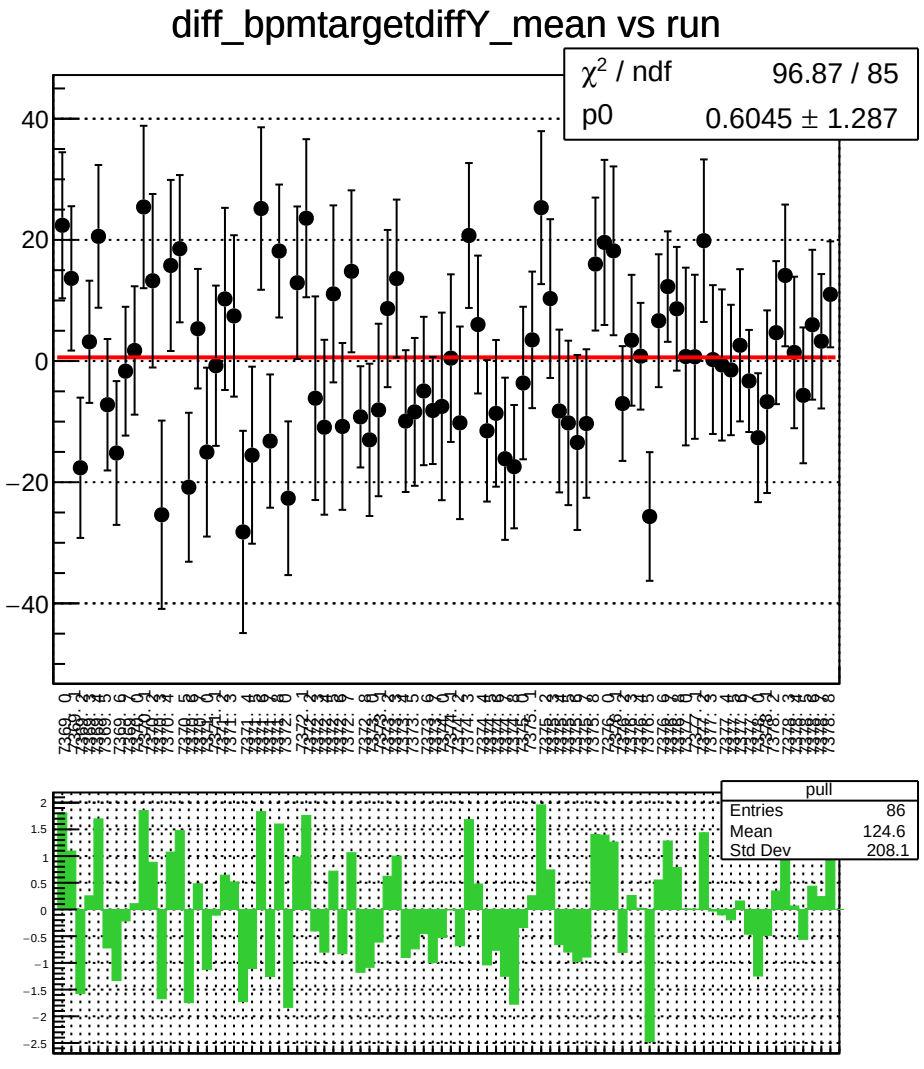

pull1D
Entries 86
Mean 0.03947
Std Dev 1.119

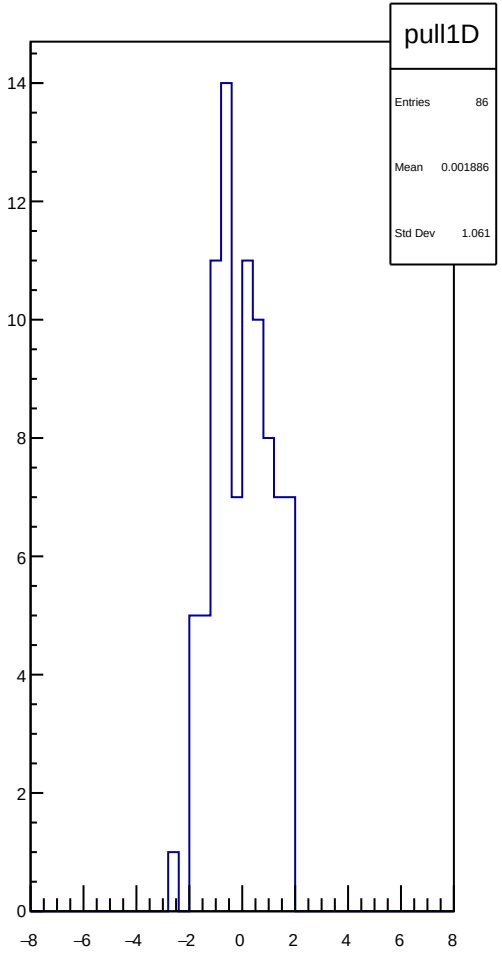

diff_bpmtargetdiffX_rms vs run
χ² / ndf 6.862e+04 / 85
p0 1212 ± 0.9539
2000
1800
1600
1400
1200
1000
800

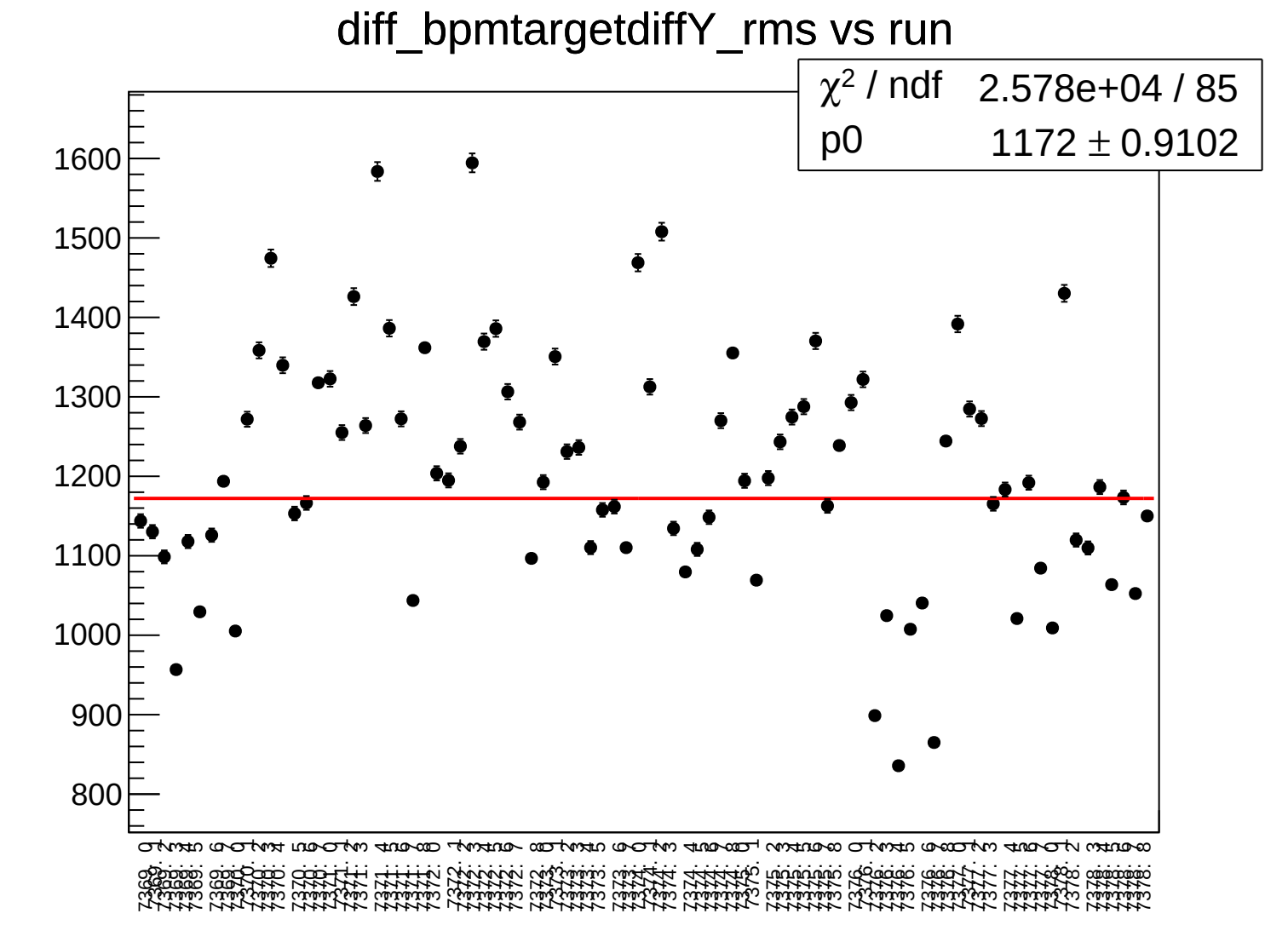

diff_bpmtargetsumY_mean vs run
χ² / ndf 92.56 / 85
p0 1.924 ± 9.804
pull
Entries 86
Mean 263.7
Std Dev 0

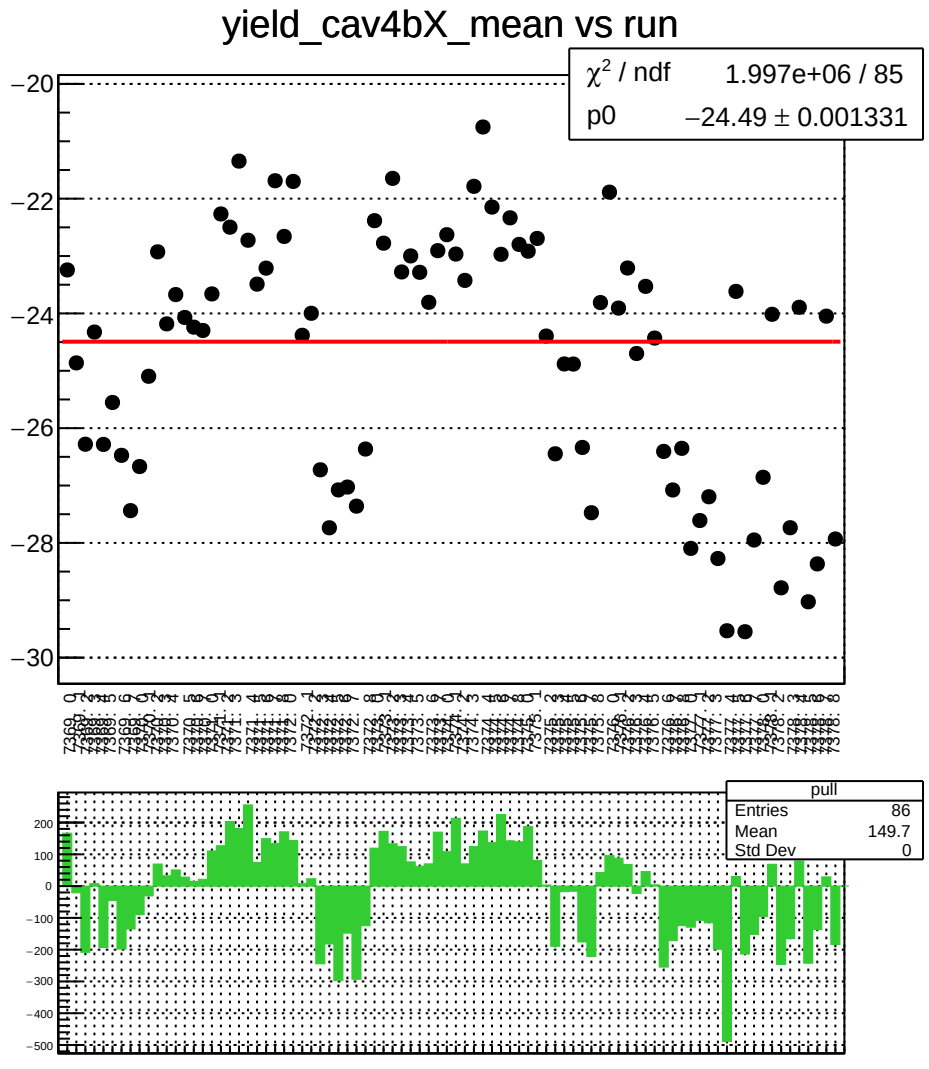

pull1D
Entries 86
Mean −0.005637
Std Dev 1.037

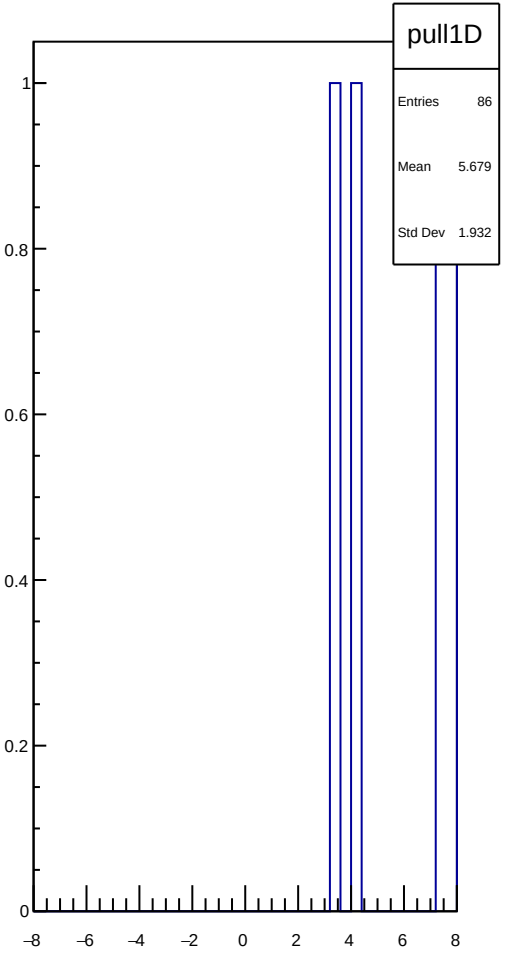

diff_bpmtargetsumY_rms vs run
χ² / ndf 2478 / 85
p0 8990 ± 6.932
9800
9600
9400
9200
9000
8800
8600
8400
8200

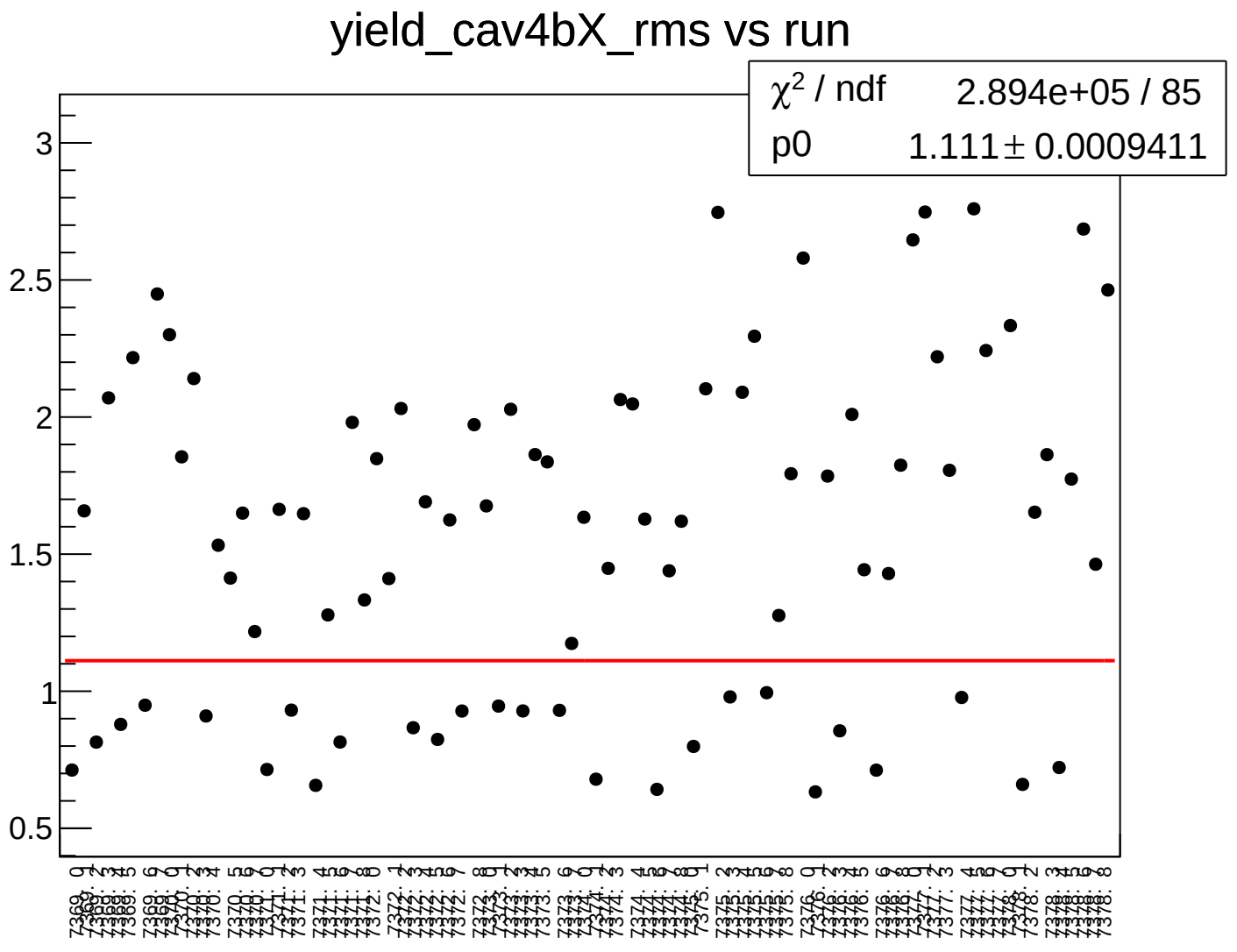

diff_bpmtargetdiffY_mean vs run
χ² / ndf 96.87 / 85
p0 0.6045 ± 1.287
pull
Entries 86
Mean 124.6
Std Dev 208.1

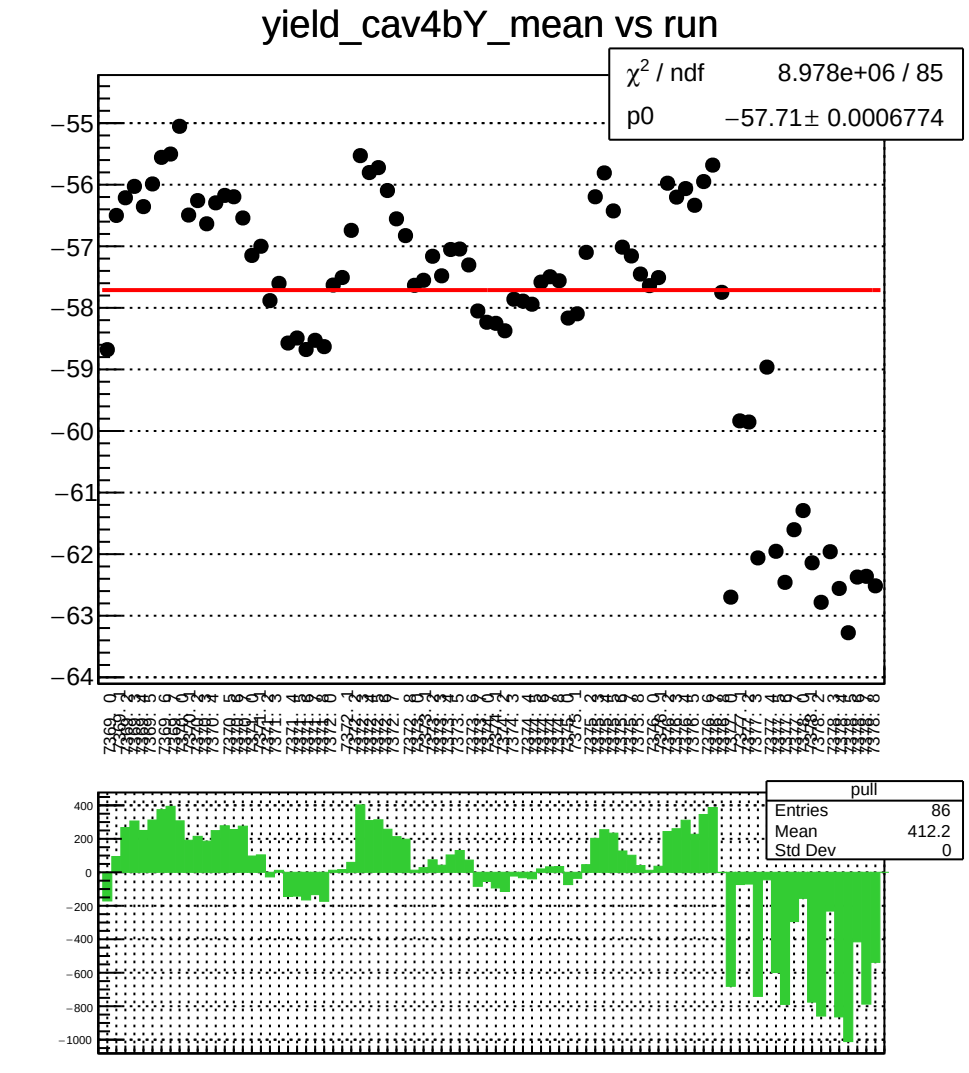

pull1D
Entries 86
Mean 0.001886
Std Dev 1.061

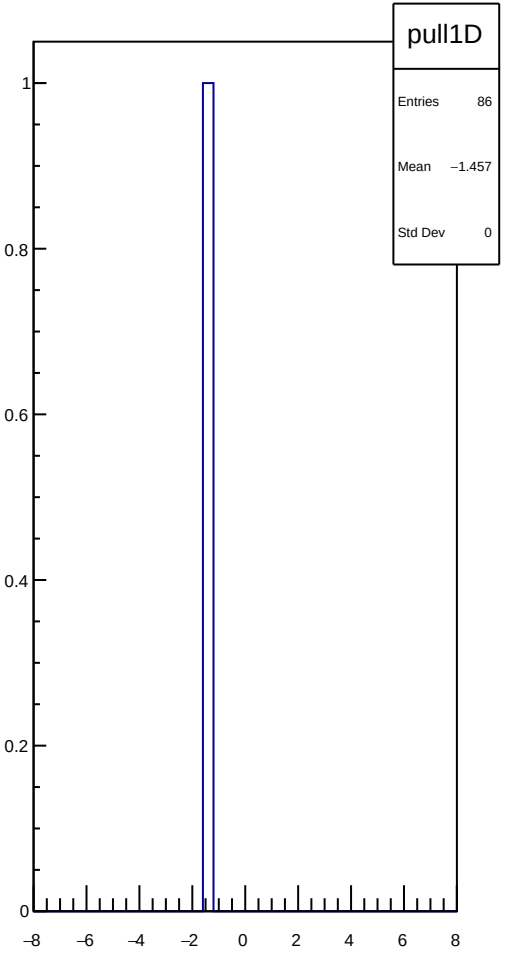

diff_bpmtargetdiffY_rms vs run
χ² / ndf 2.578e+04 / 85
p0 1172 ± 0.9102
1600
1500
1400
1300
1200
1100
1000
900
800

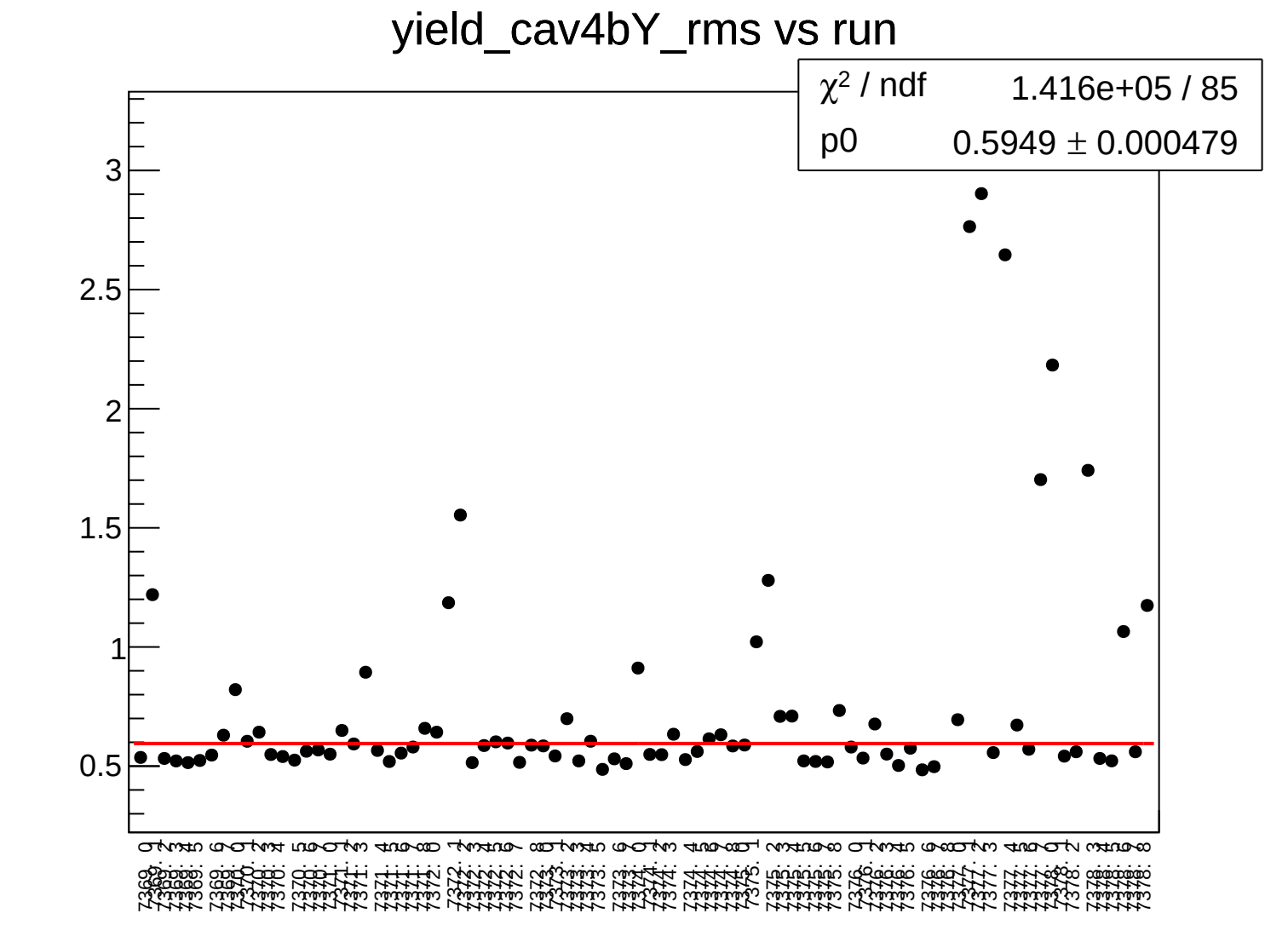

yield_cav4bX_mean vs run
χ² / ndf 1.997e+06 / 85
p0 −24.49 ± 0.001331
pull
Entries 86
Mean 149.7
Std Dev 0

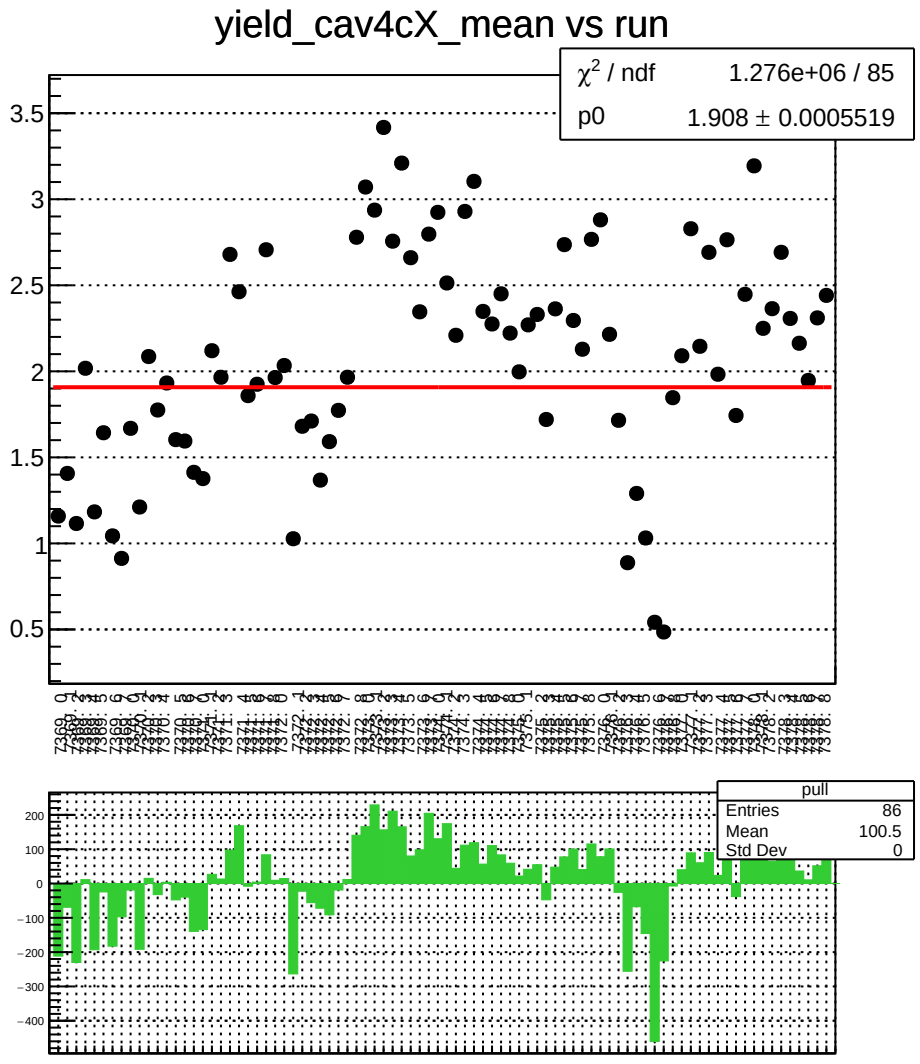

pull1D
Entries 86
Mean 5.679
Std Dev 1.932

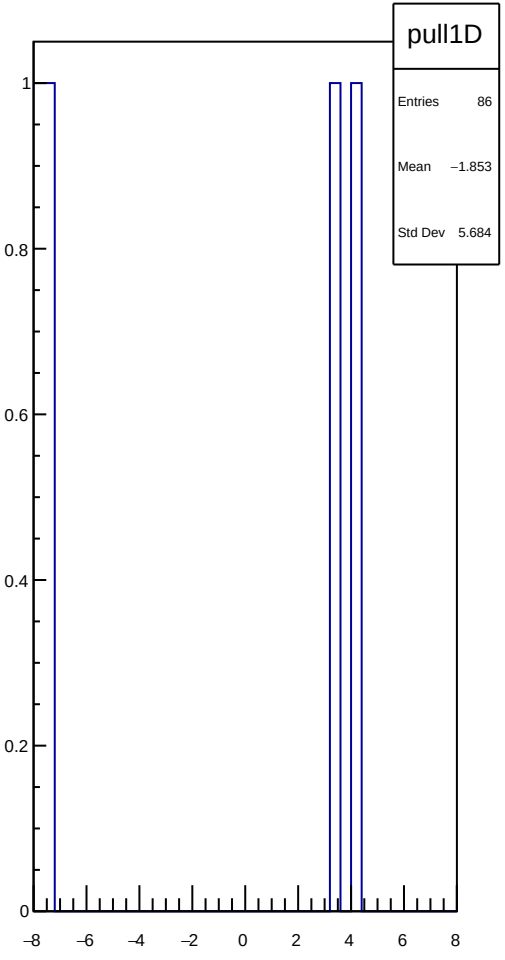

yield_cav4bX_rms vs run
χ² / ndf 2.894e+05 / 85
p0 1.111 ± 0.0009411
3
2.5
2
1.5
1
0.5

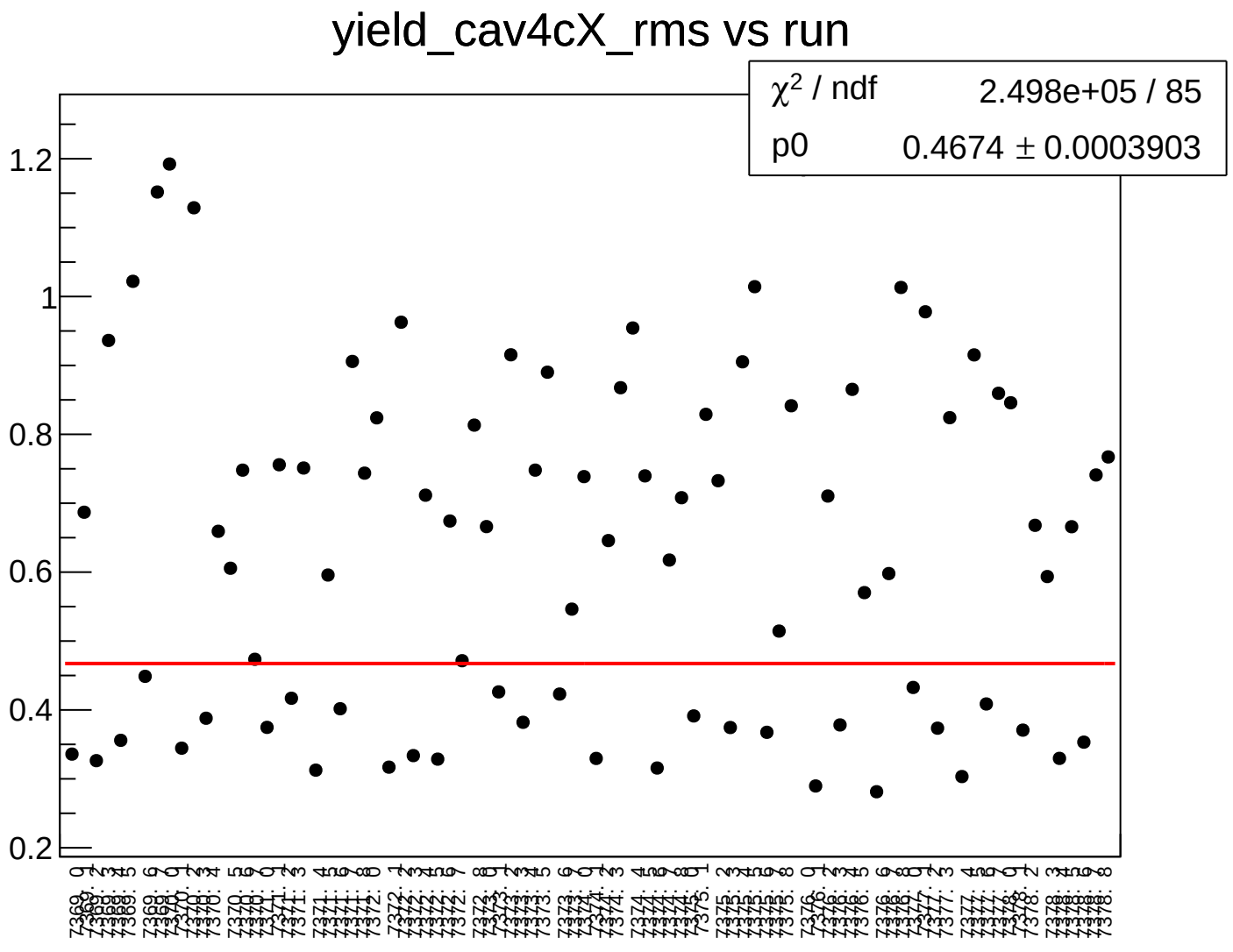

yield_cav4bY_mean vs run
χ² / ndf 8.978e+06 / 85
p0 −57.71± 0.0006774
pull
Entries 86
Mean 412.2
Std Dev 0

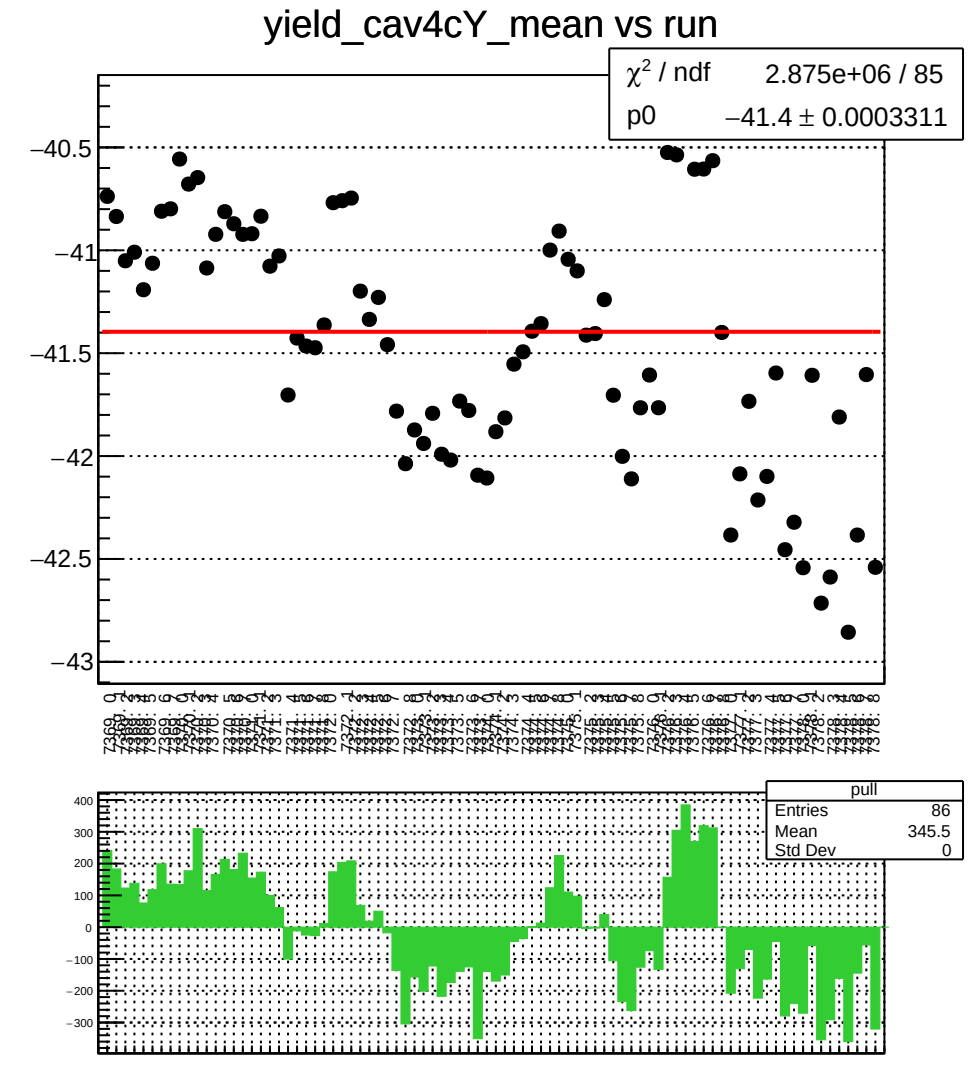

pull1D
Entries 86
Mean −1.457
Std Dev 0

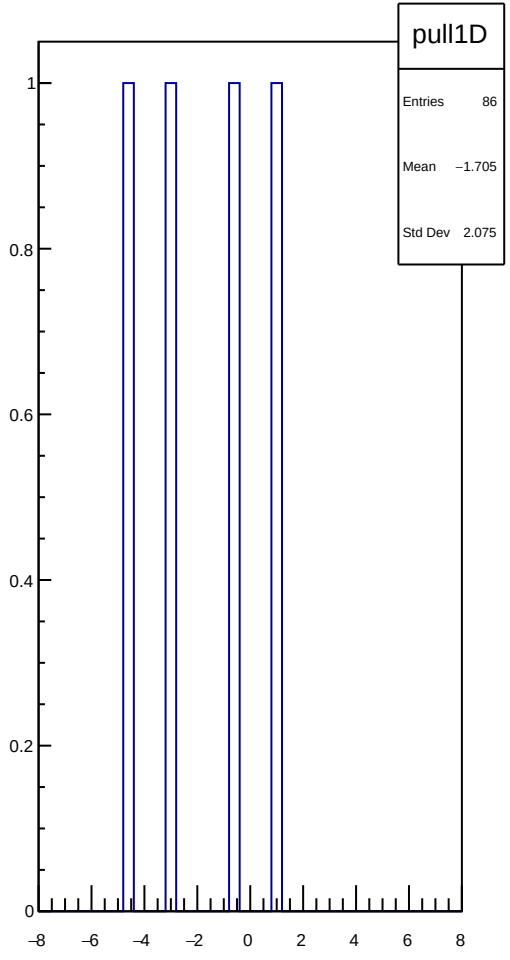

yield_cav4bY_rms vs run
χ² / ndf 1.416e+05 / 85
p0 0.5949 ± 0.000479
3
2.5
2
1.5
1
0.5

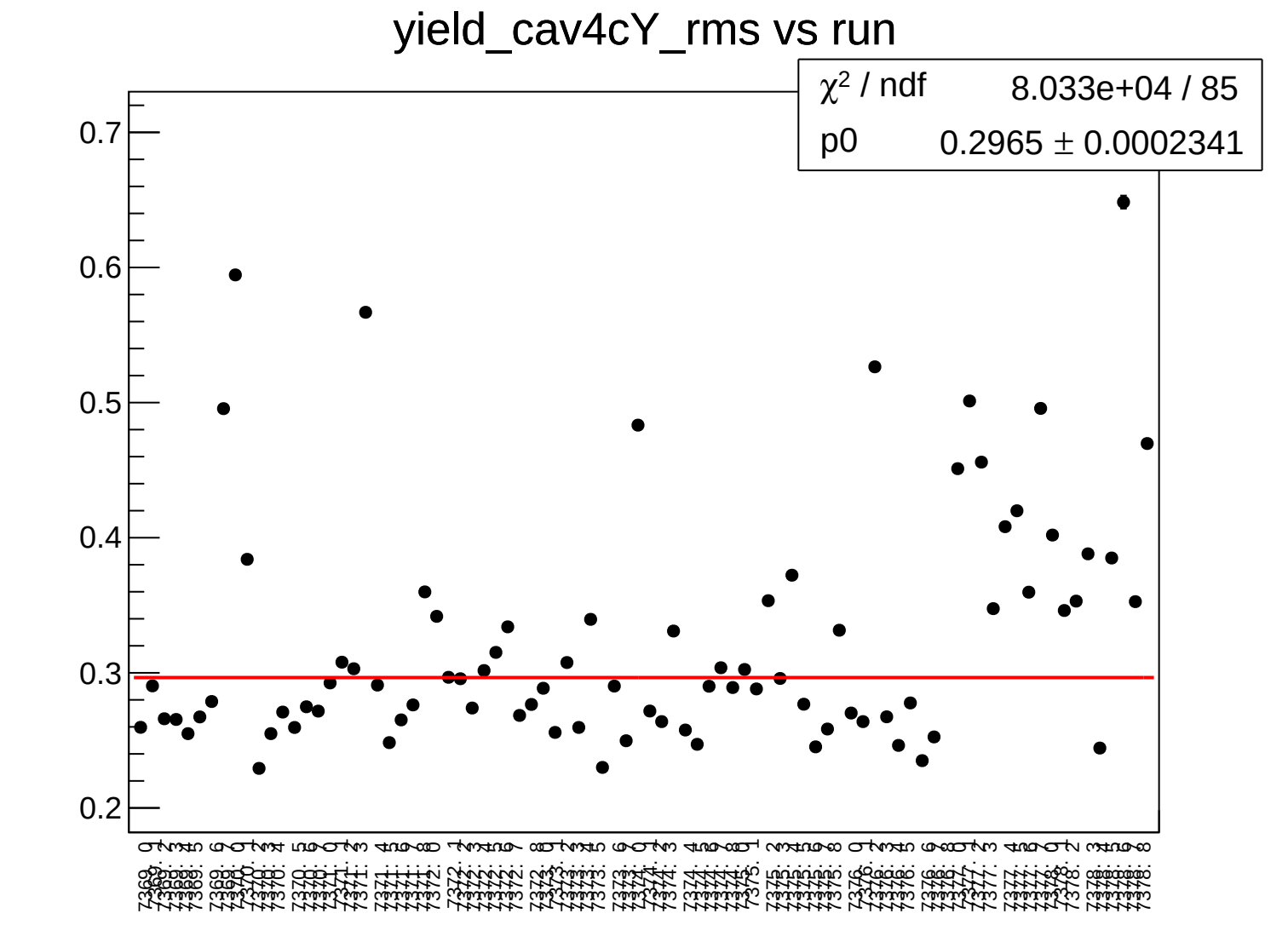

yield_cav4cX_mean vs run
χ² / ndf 1.276e+06 / 85
p0 1.908 ± 0.0005519
pull
Entries 86
Mean 100.5
Std Dev 0

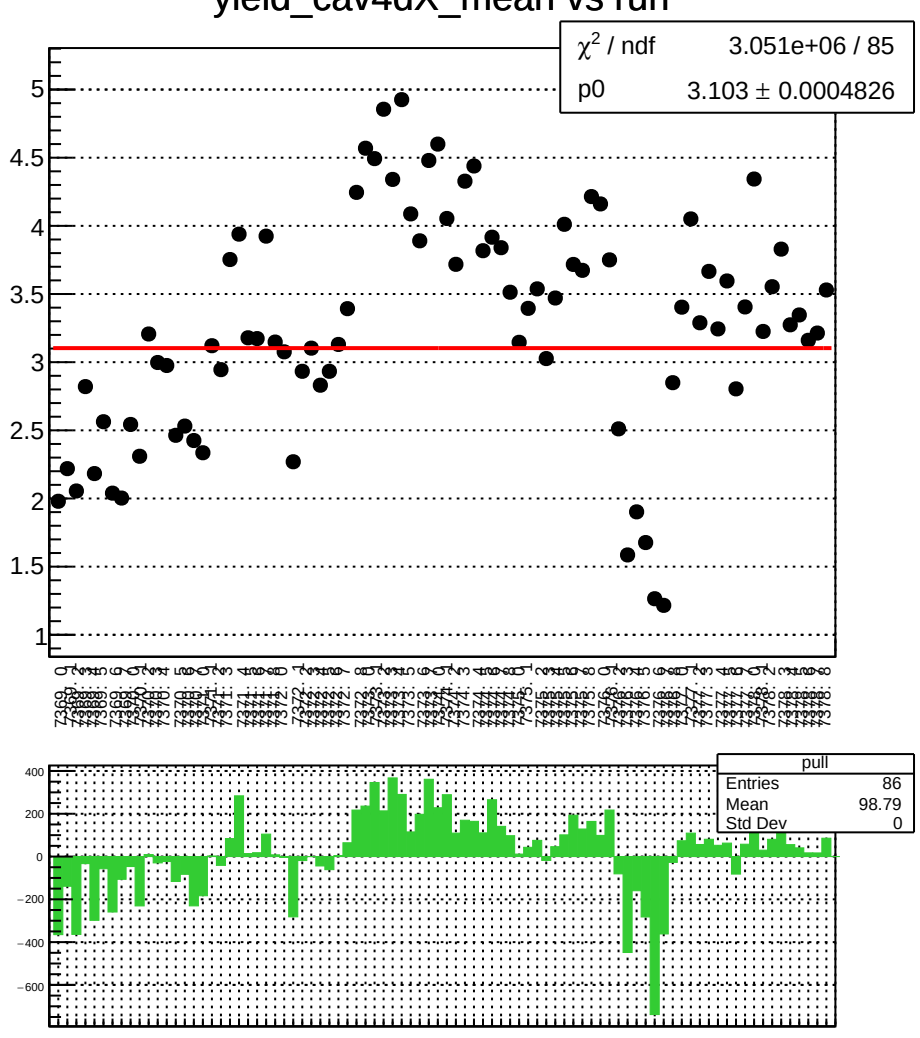

pull1D
Entries 86
Mean −1.853
Std Dev 5.684

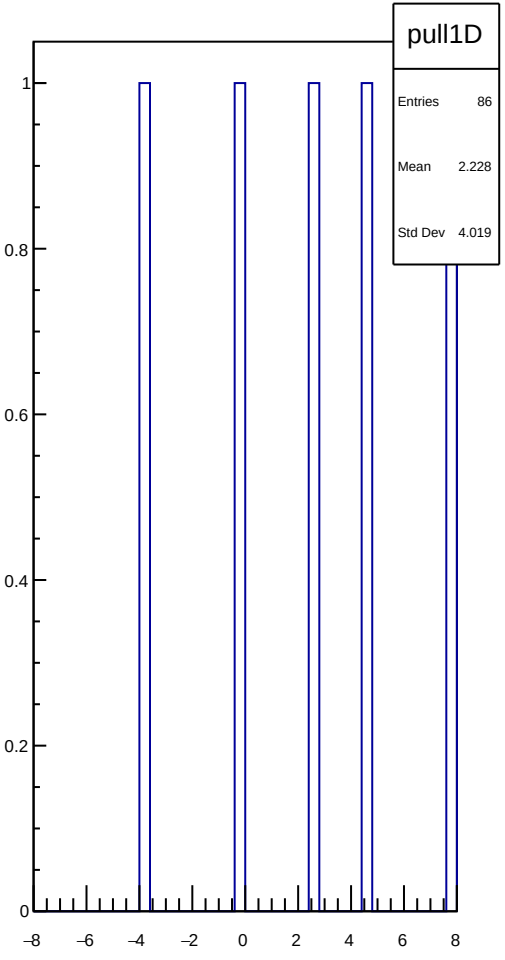

yield_cav4cX_rms vs run
χ² / ndf 2.498e+05 / 85
p0 0.4674 ± 0.0003903
1.2
1
0.8
0.6
0.4
0.2

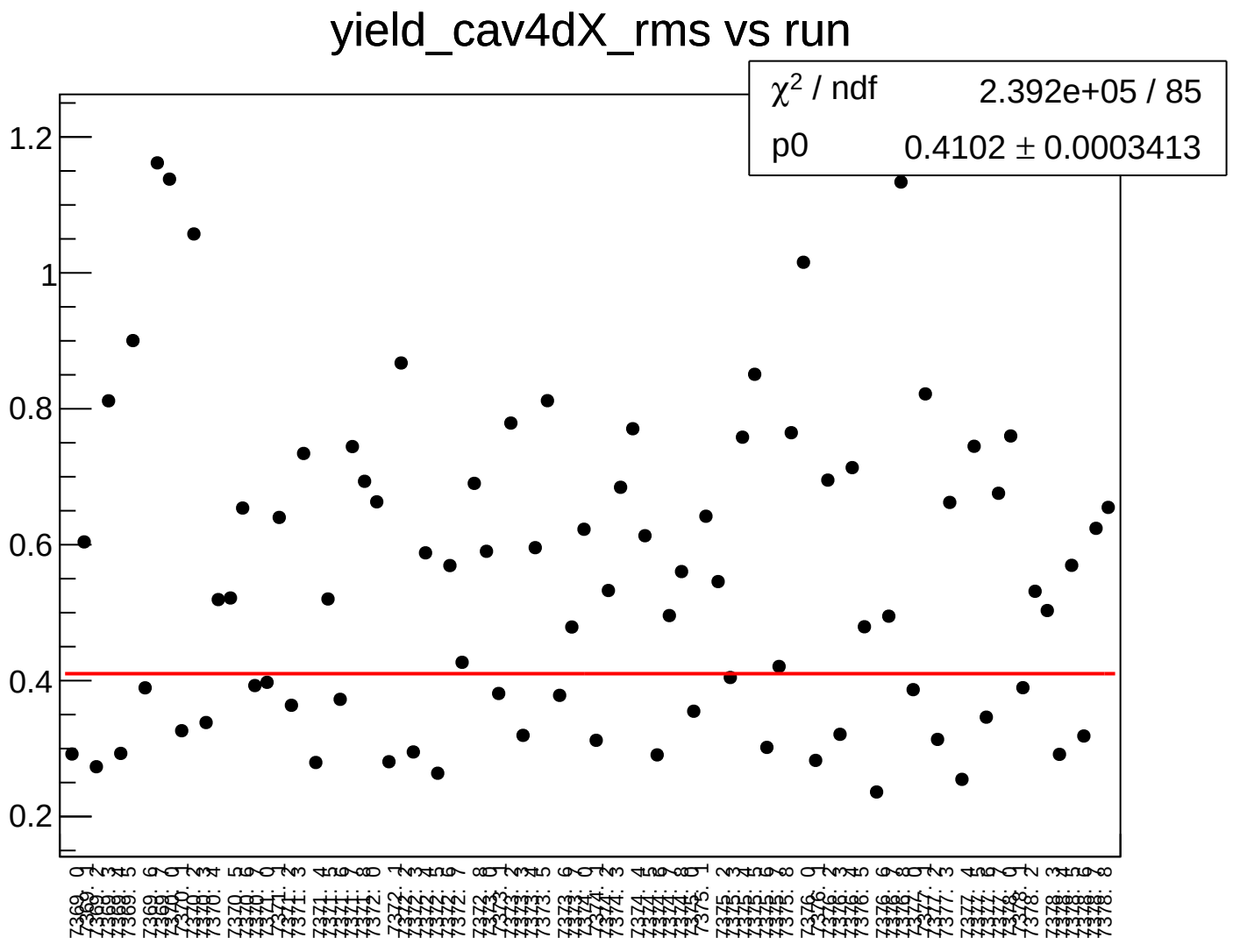

yield_cav4cY_mean vs run
χ² / ndf 2.875e+06 / 85
p0 −41.4 ± 0.0003311
−40.5
−41
−41.5
−42
−42.5
−43
pull
Entries 86
Mean 345.5
Std Dev 0
400
300
200
100
0
−100
−200
−300

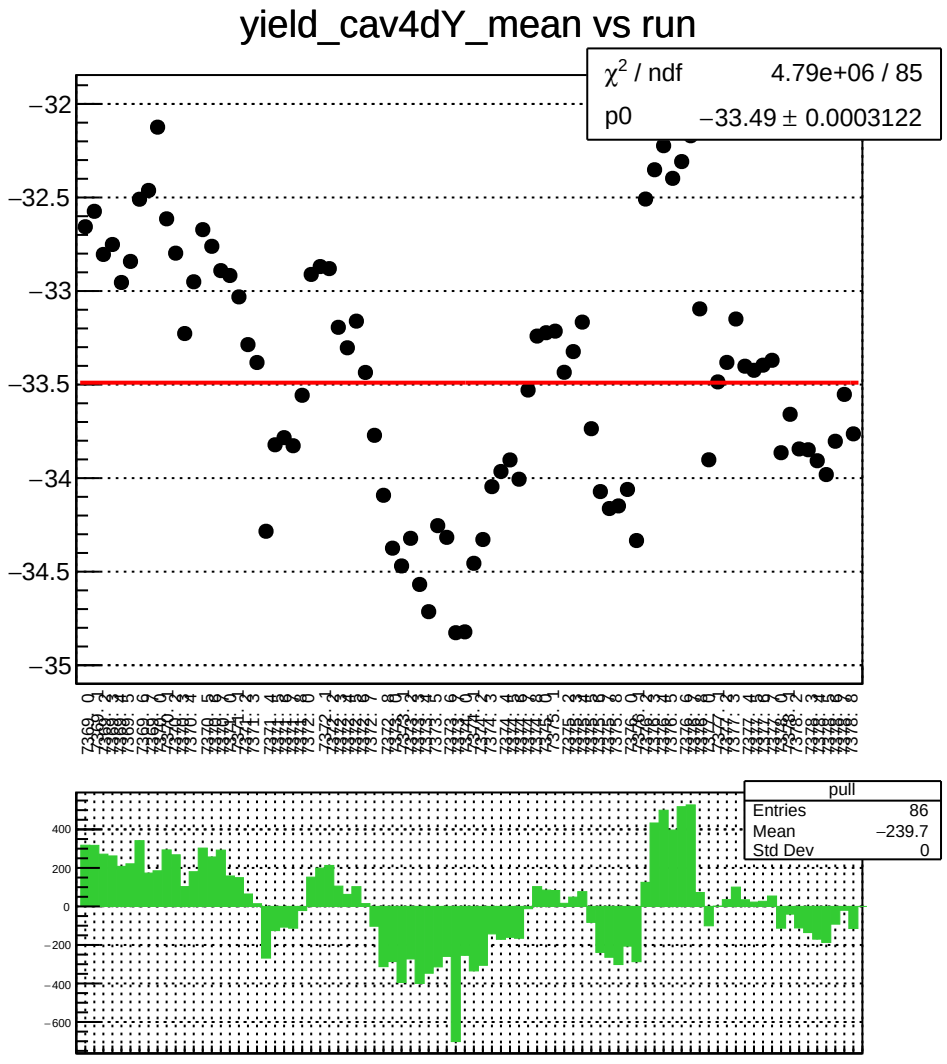

pull1D
Entries 86
Mean −1.705
Std Dev 2.075
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

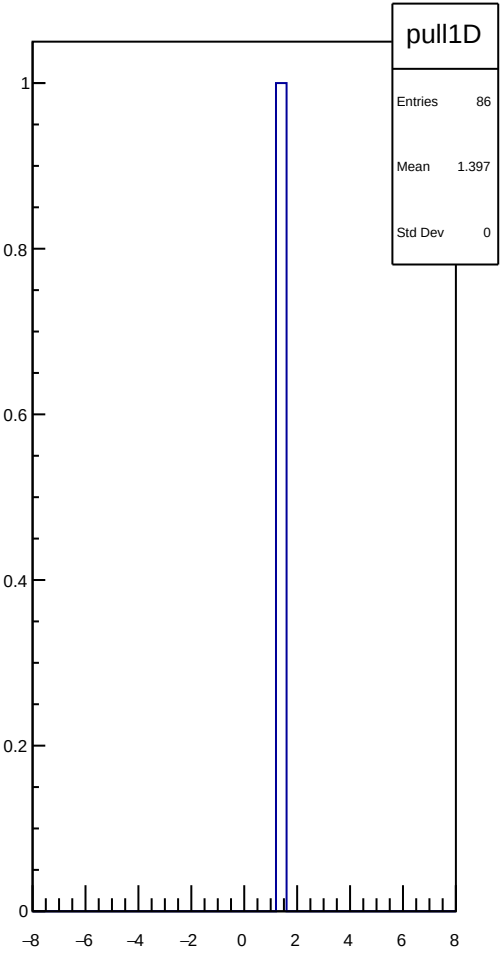

yield_cav4cY_rms vs run
χ² / ndf 8.033e+04 / 85
p0 0.2965 ± 0.0002341
0.7
0.6
0.5
0.4
0.3
0.2

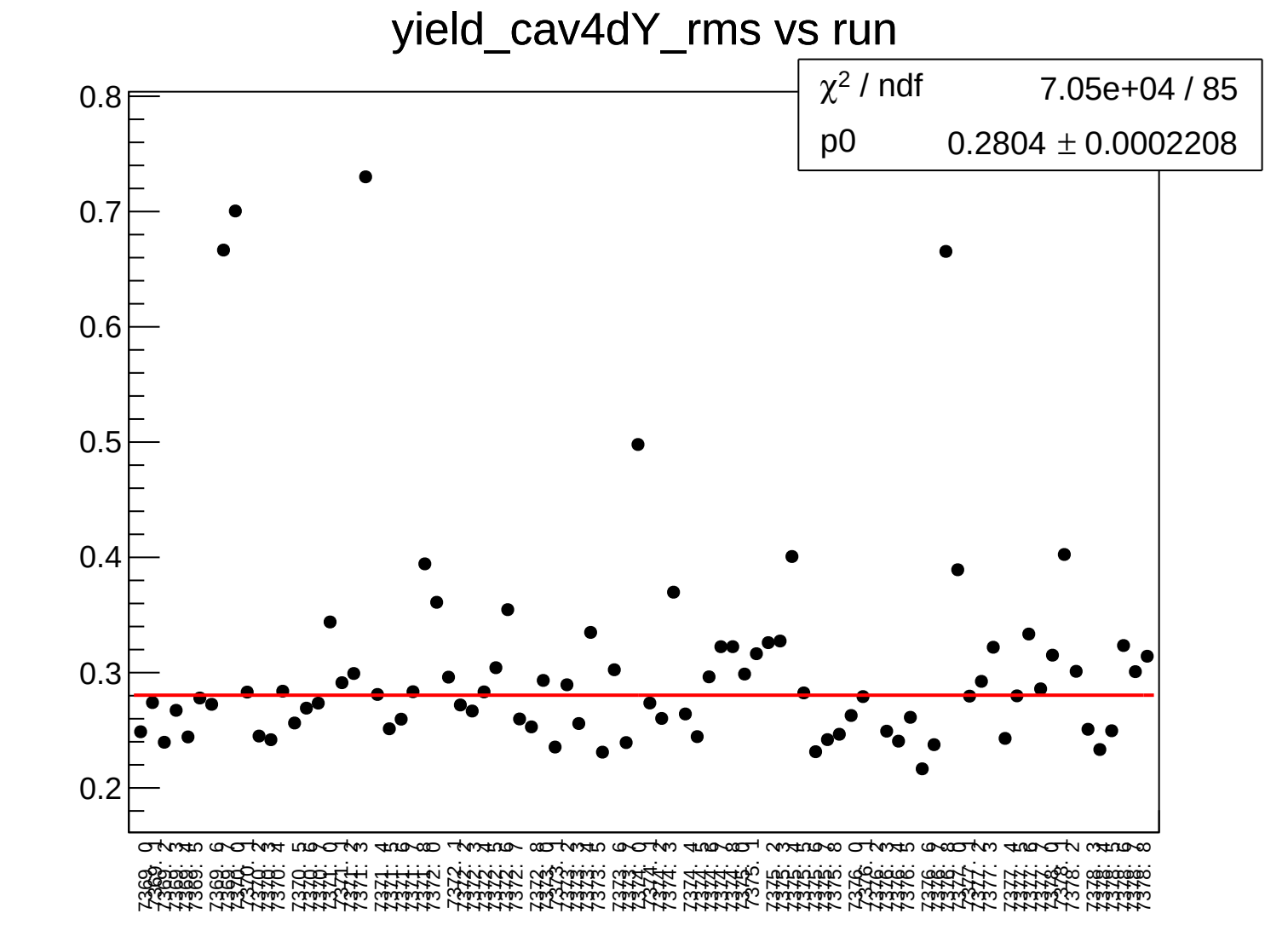

yield_cav4dX_mean vs run
χ² / ndf 3.051e+06 / 85
p0 3.103 ± 0.0004826
pull
Entries 86
Mean 98.79
Std Dev 0

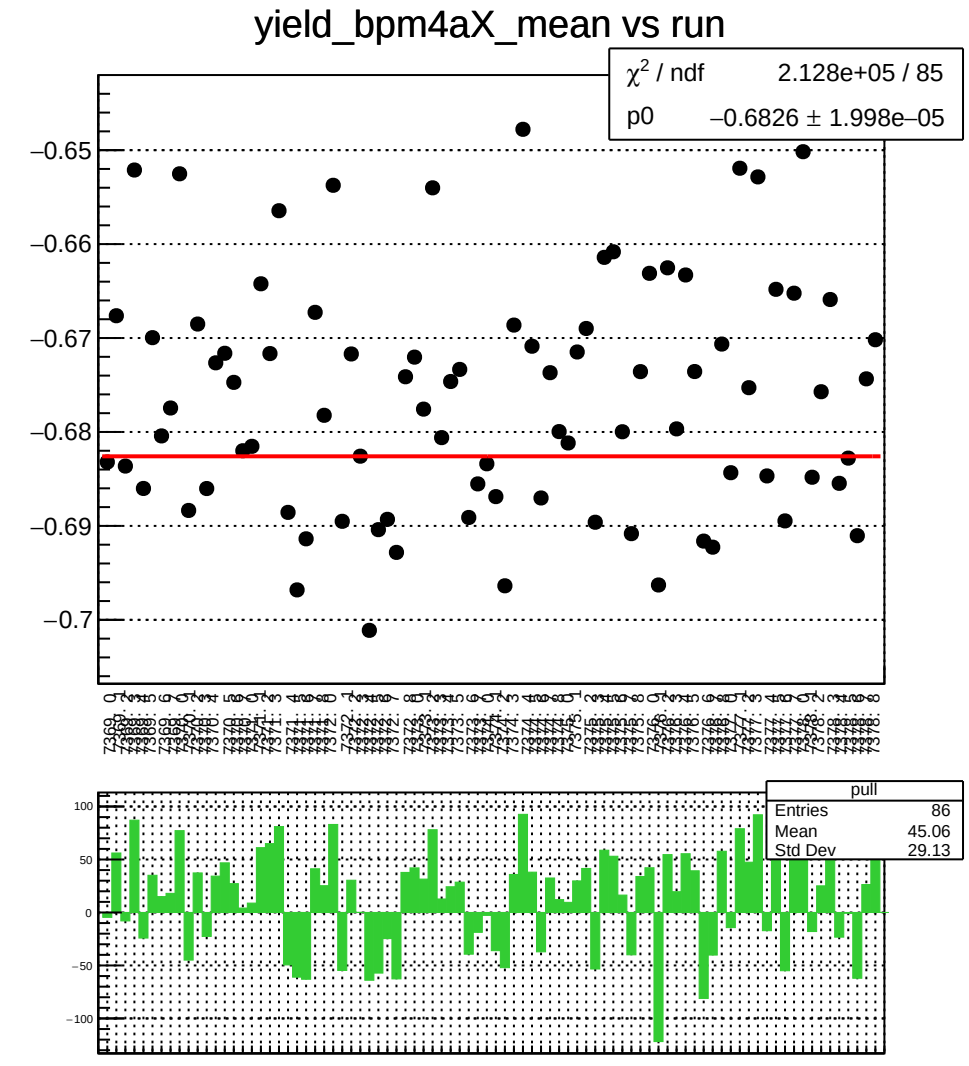

pull1D
Entries 86
Mean 2.228
Std Dev 4.019

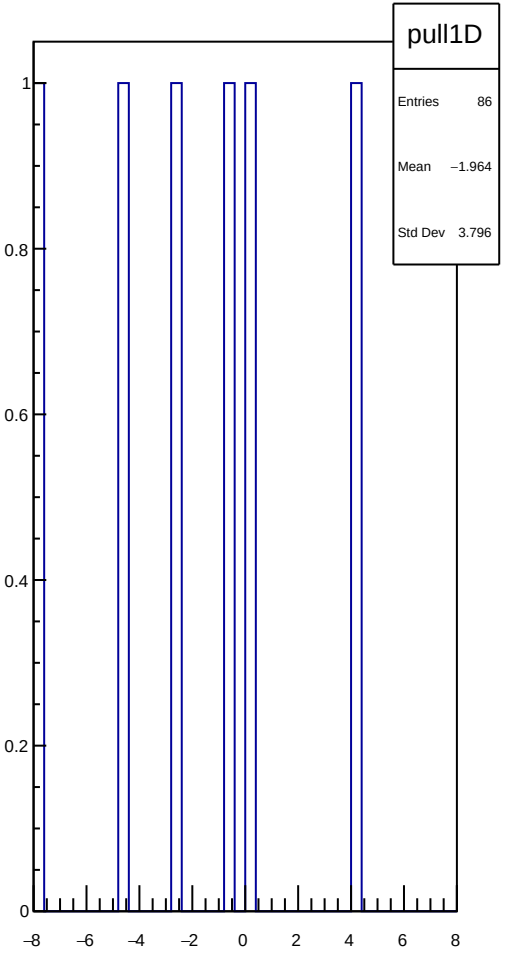

yield_cav4dX_rms vs run
χ² / ndf 2.392e+05 / 85
p0 0.4102 ± 0.0003413
1.2
1
0.8
0.6
0.4
0.2

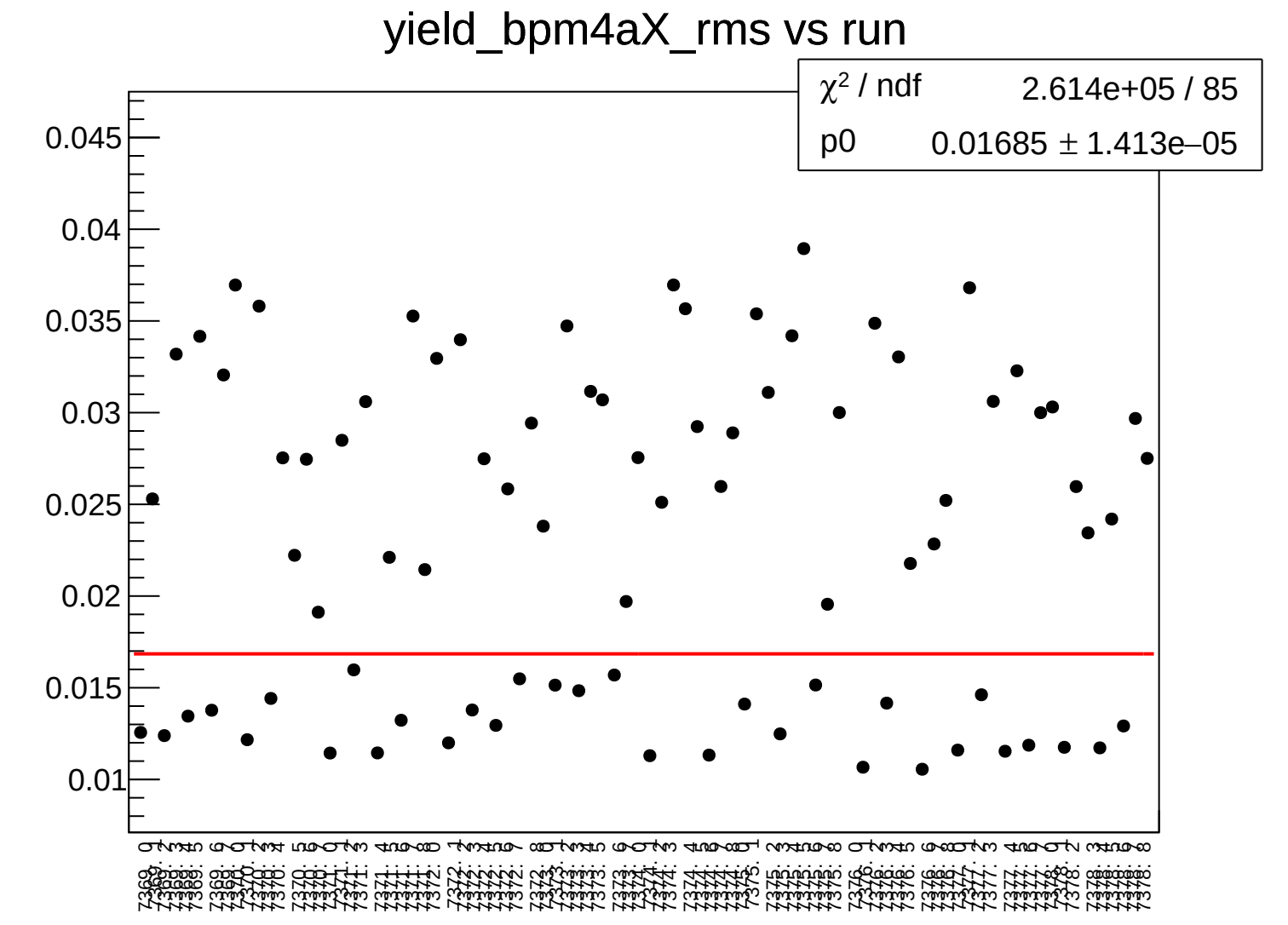

yield_cav4dY_mean vs run
χ² / ndf 4.79e+06 / 85
p0 −33.49 ± 0.0003122
−32
−32.5
−33
−33.5
−34
−34.5
−35
pull
Entries 86
Mean −239.7
Std Dev 0
400
200
0
−200
−400
−600

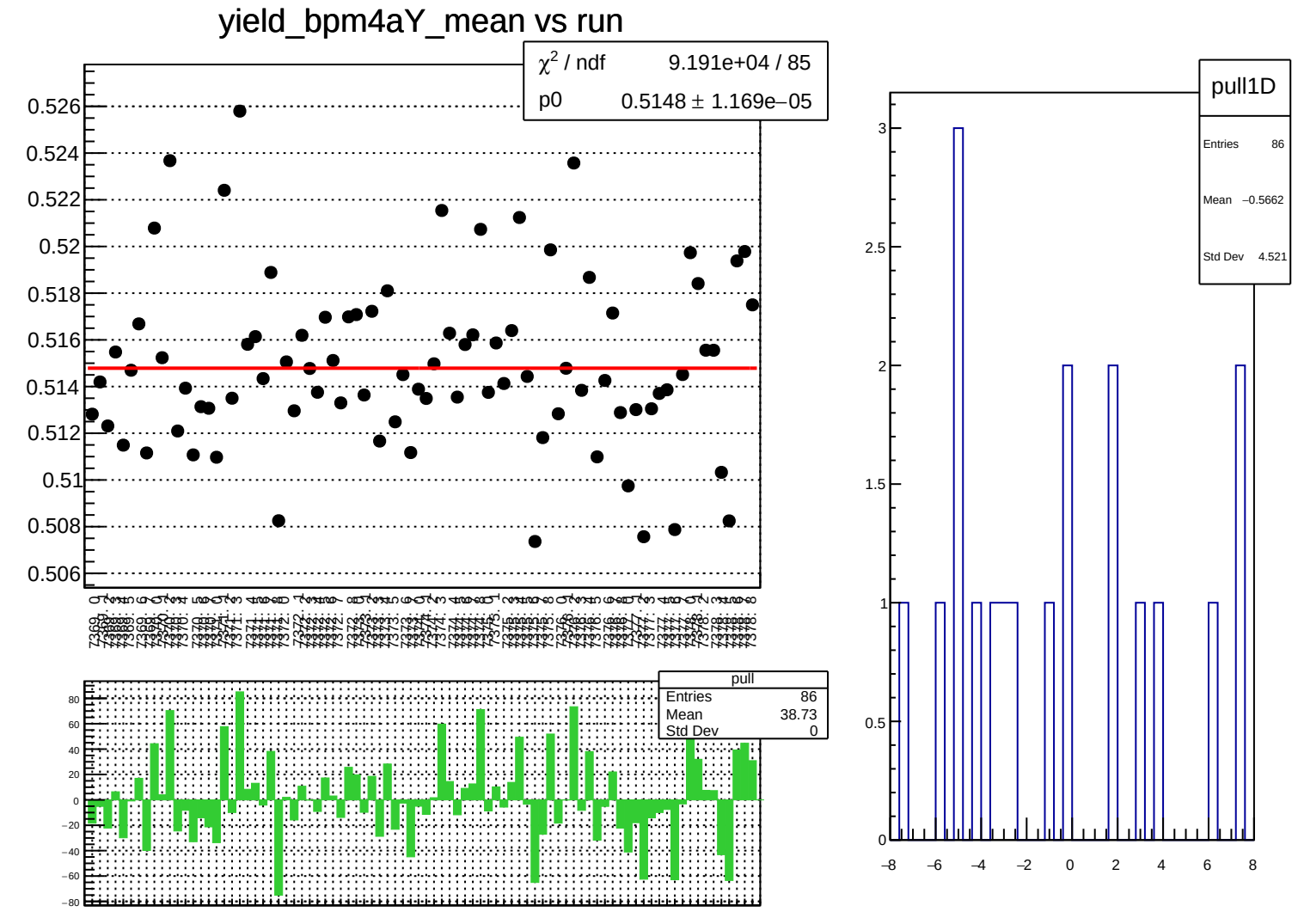

pull1D
Entries 86
Mean 1.397
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

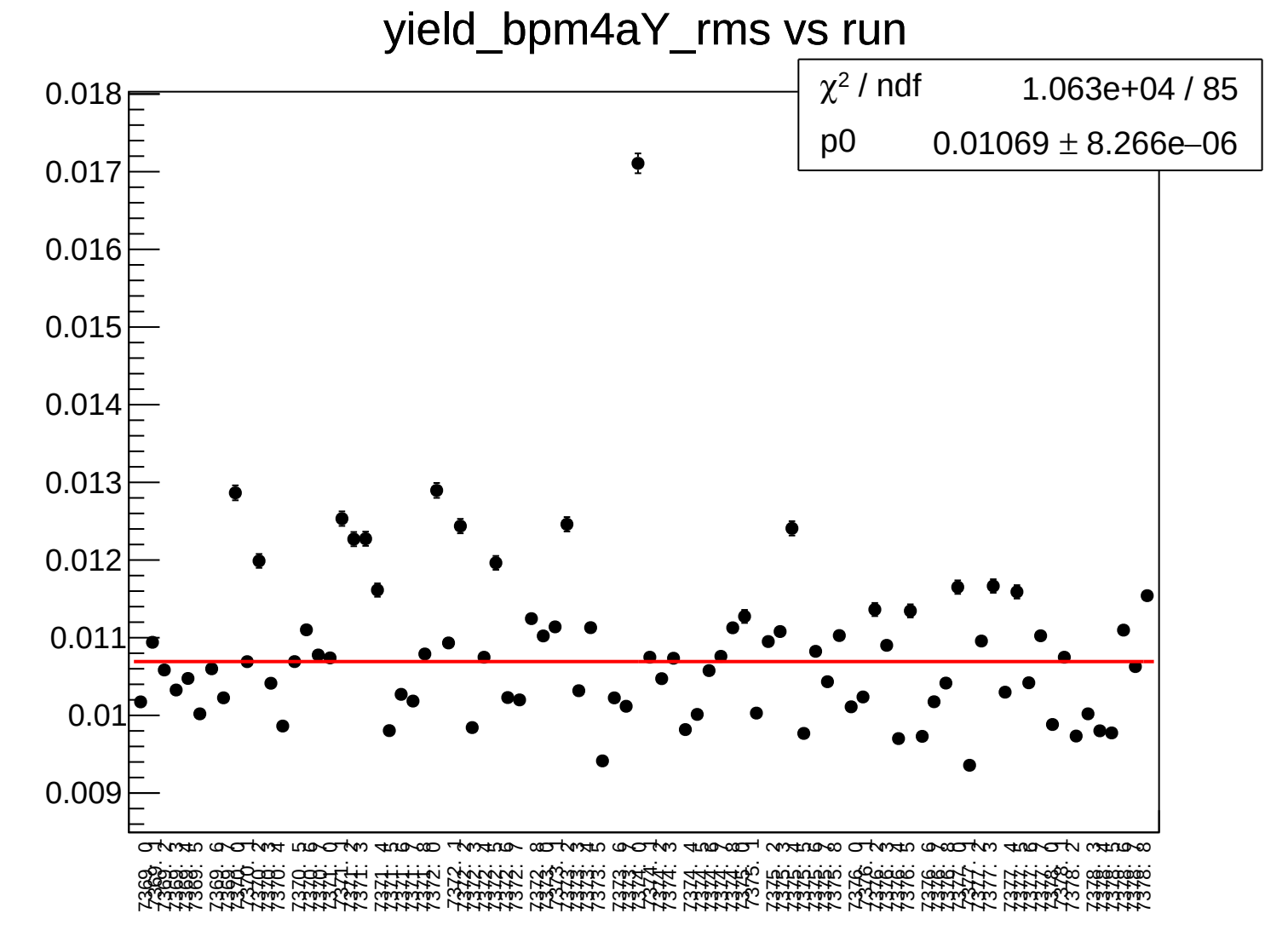

yield_cav4dY_rms vs run
χ² / ndf 7.05e+04 / 85
p0 0.2804 ± 0.0002208
0.8
0.7
0.6
0.5
0.4
0.3
0.2

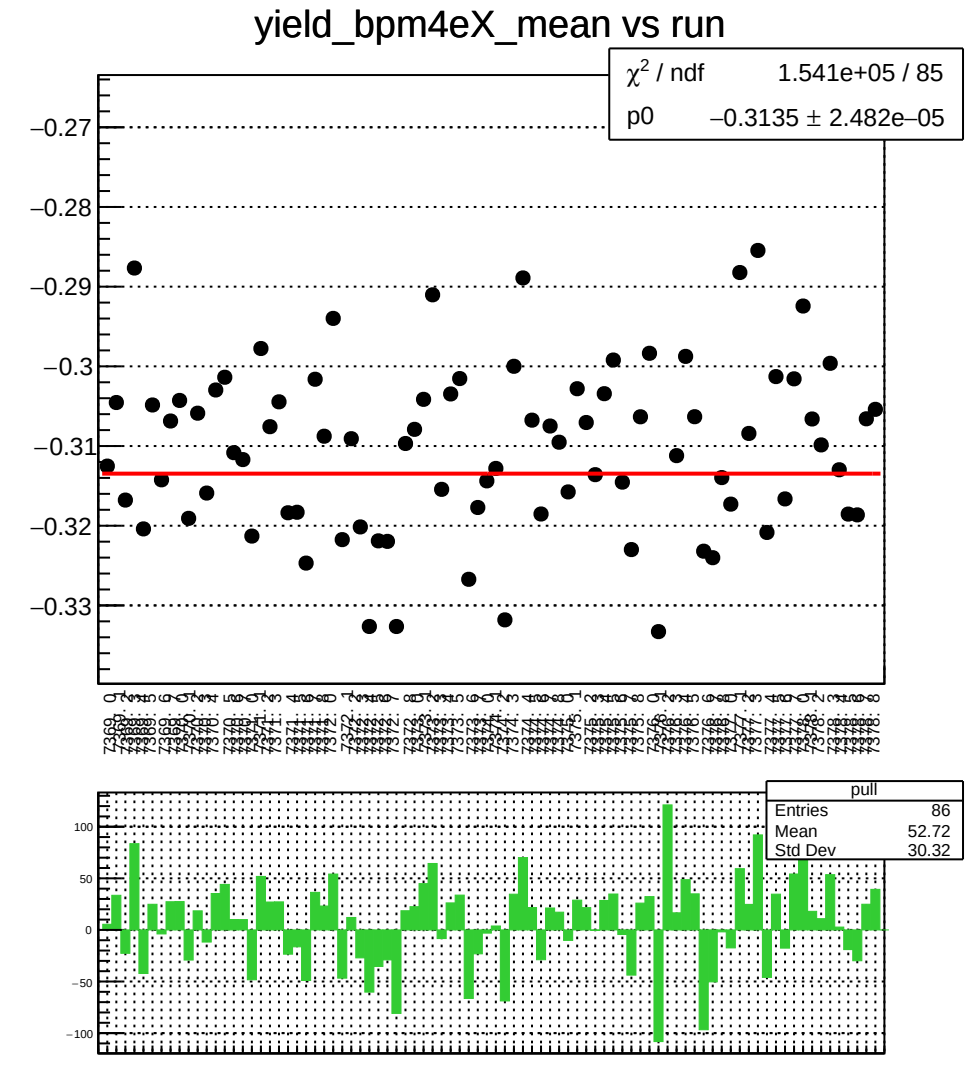

yield_bpm4aX_mean vs run
χ² / ndf 2.128e+05 / 85
p0 −0.6826 ± 1.998e−05
−0.65
−0.66
−0.67
−0.68
−0.69
−0.7
pull
Entries 86
Mean 45.06
Std Dev 29.13
100
50
0
−50
−100

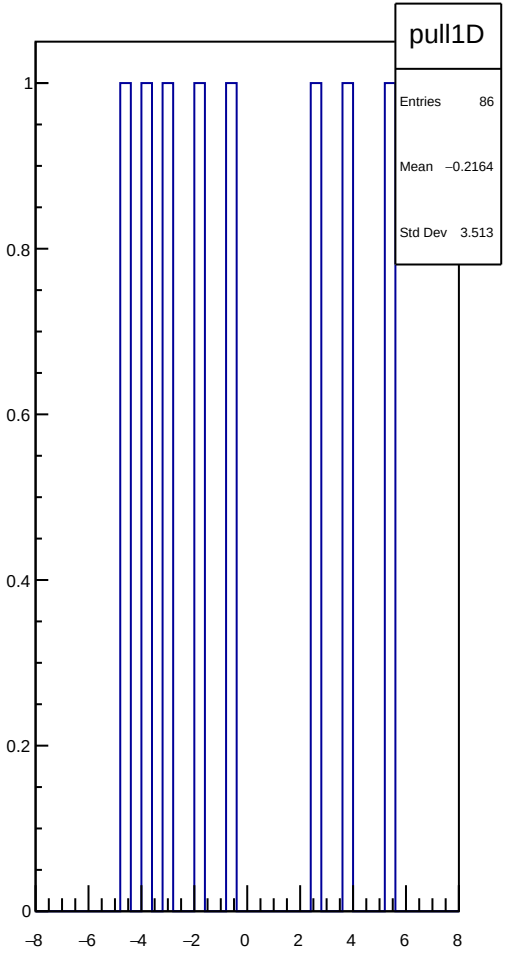

pull1D
Entries 86
Mean −1.964
Std Dev 3.796
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

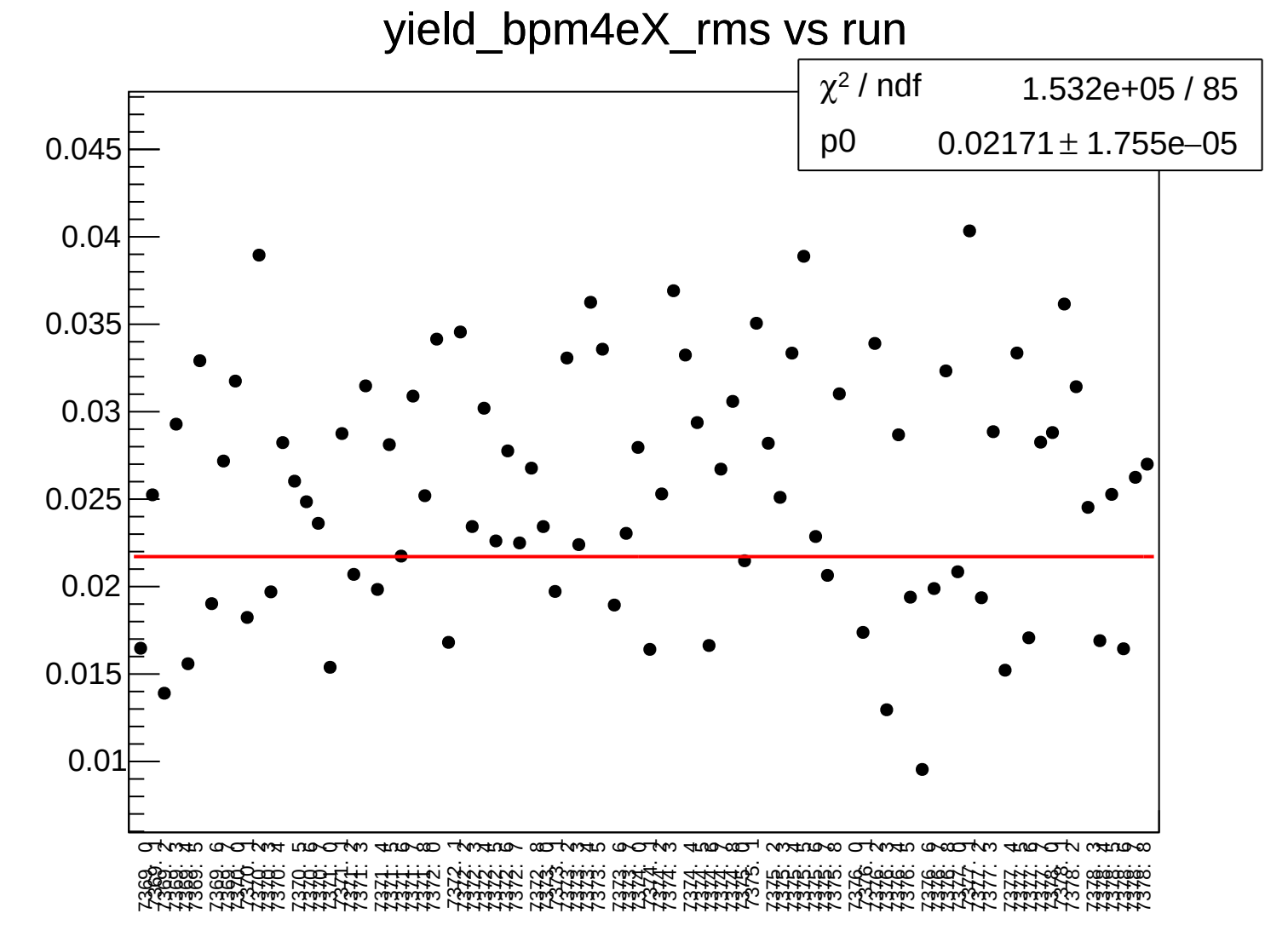

yield_bpm4aX_rms vs run
χ² / ndf 2.614e+05 / 85
p0 0.01685 ± 1.413e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

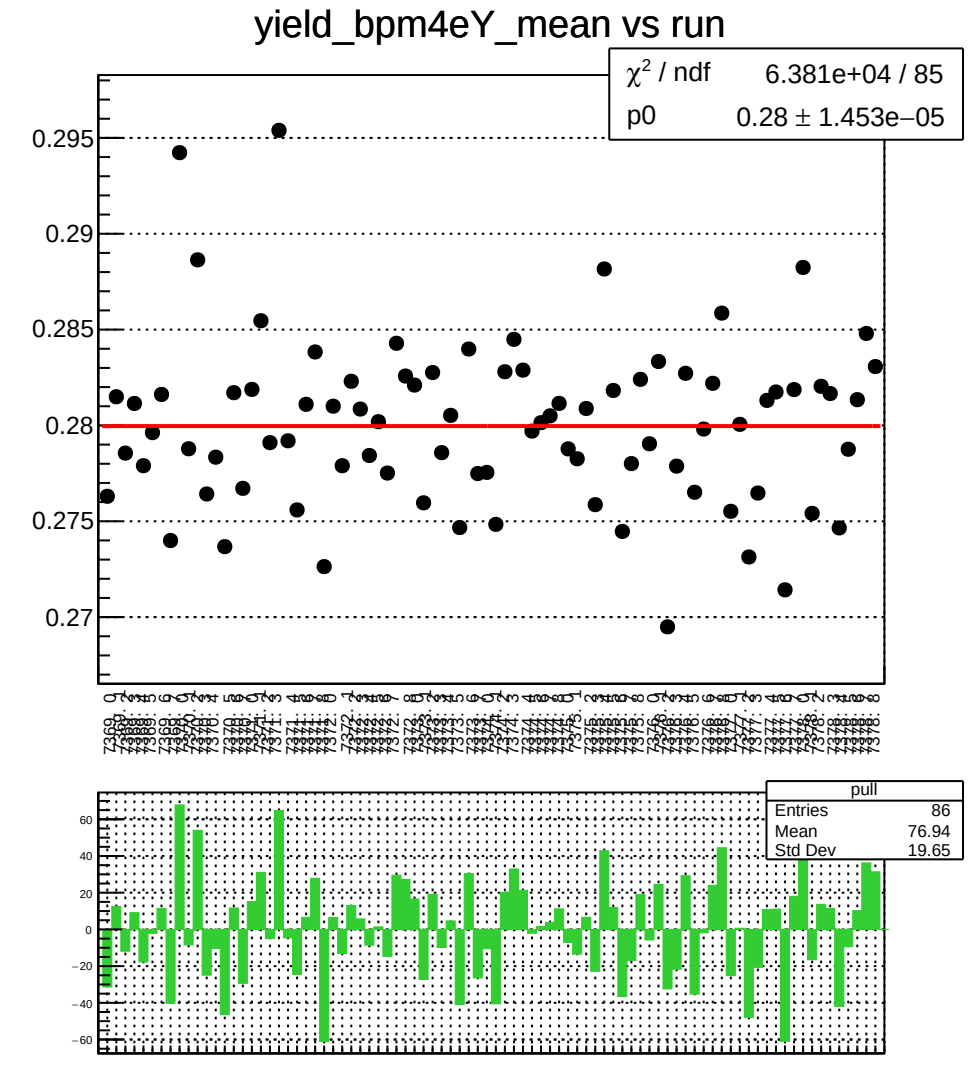

yield_bpm4aY_mean vs run
χ² / ndf 9.191e+04 / 85
p0 0.5148 ± 1.169e−05
pull
Entries 86
Mean 38.73
Std Dev 0
pull1D
Entries 86
Mean −0.5662
Std Dev 4.521

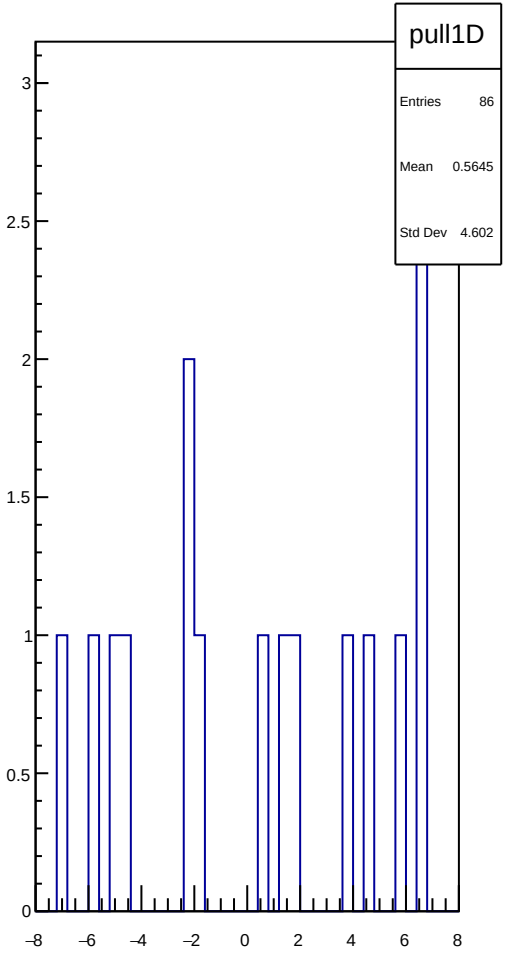

yield_bpm4aY_rms vs run
χ² / ndf 1.063e+04 / 85
p0 0.01069 ± 8.266e–06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

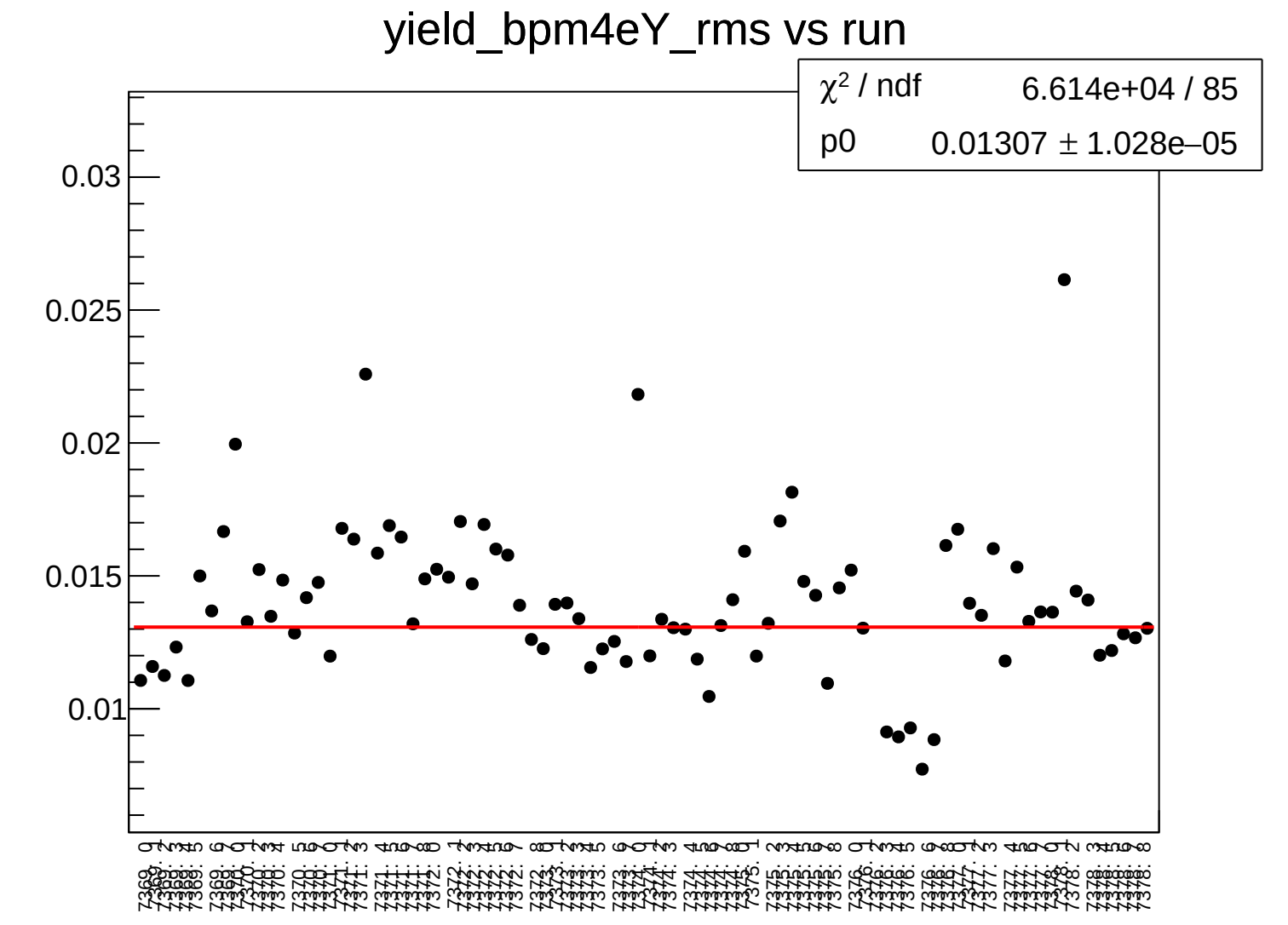

yield_bpm4eX_mean vs run
χ² / ndf 1.541e+05 / 85
p0 −0.3135 ± 2.482e−05
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
pull
Entries 86
Mean 52.72
Std Dev 30.32
100
50
0
−50
−100

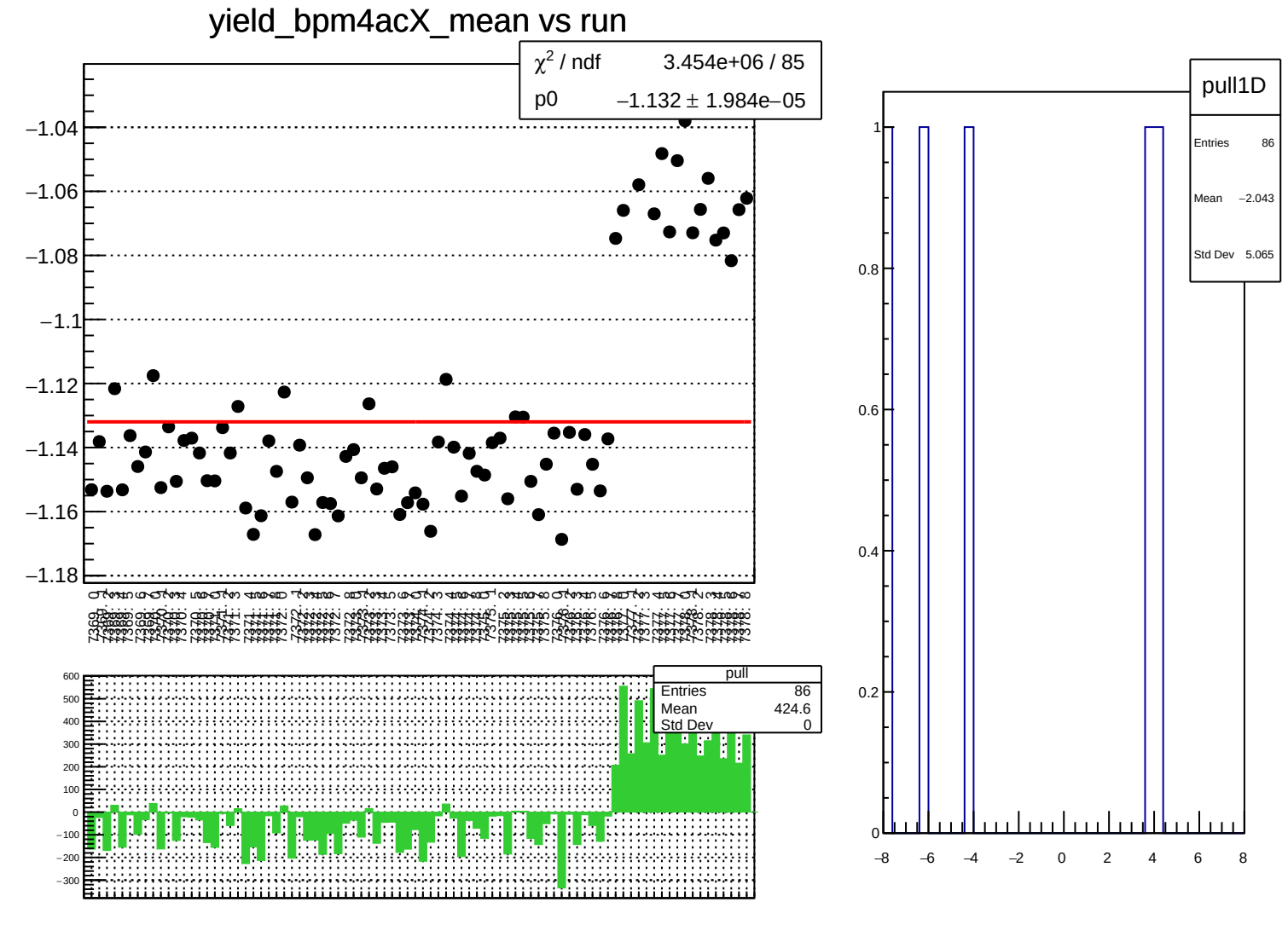

pull1D
Entries 86
Mean −0.2164
Std Dev 3.513
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

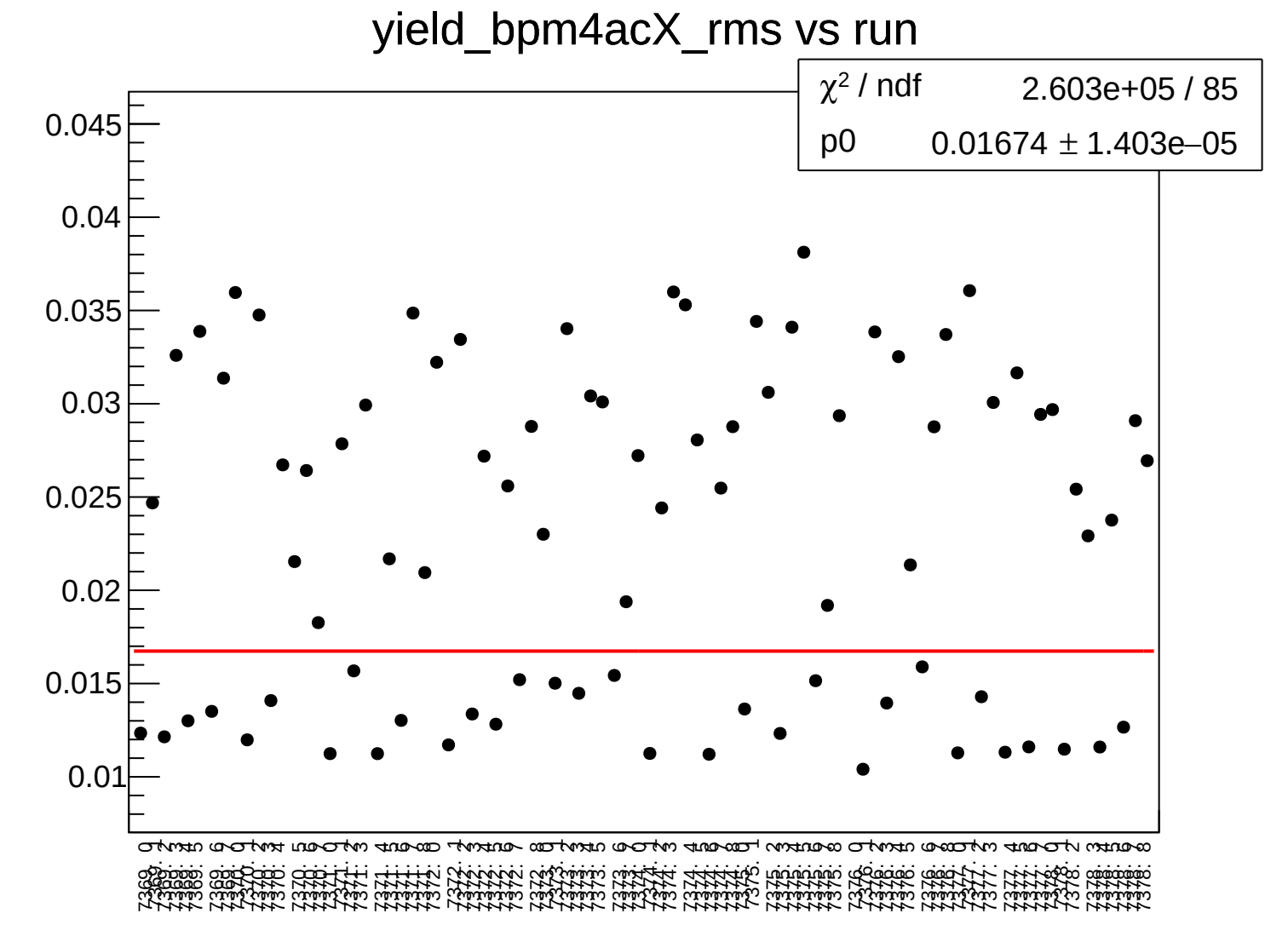

yield_bpm4eX_rms vs run
χ² / ndf 1.532e+05 / 85
p0 0.02171 ± 1.755e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

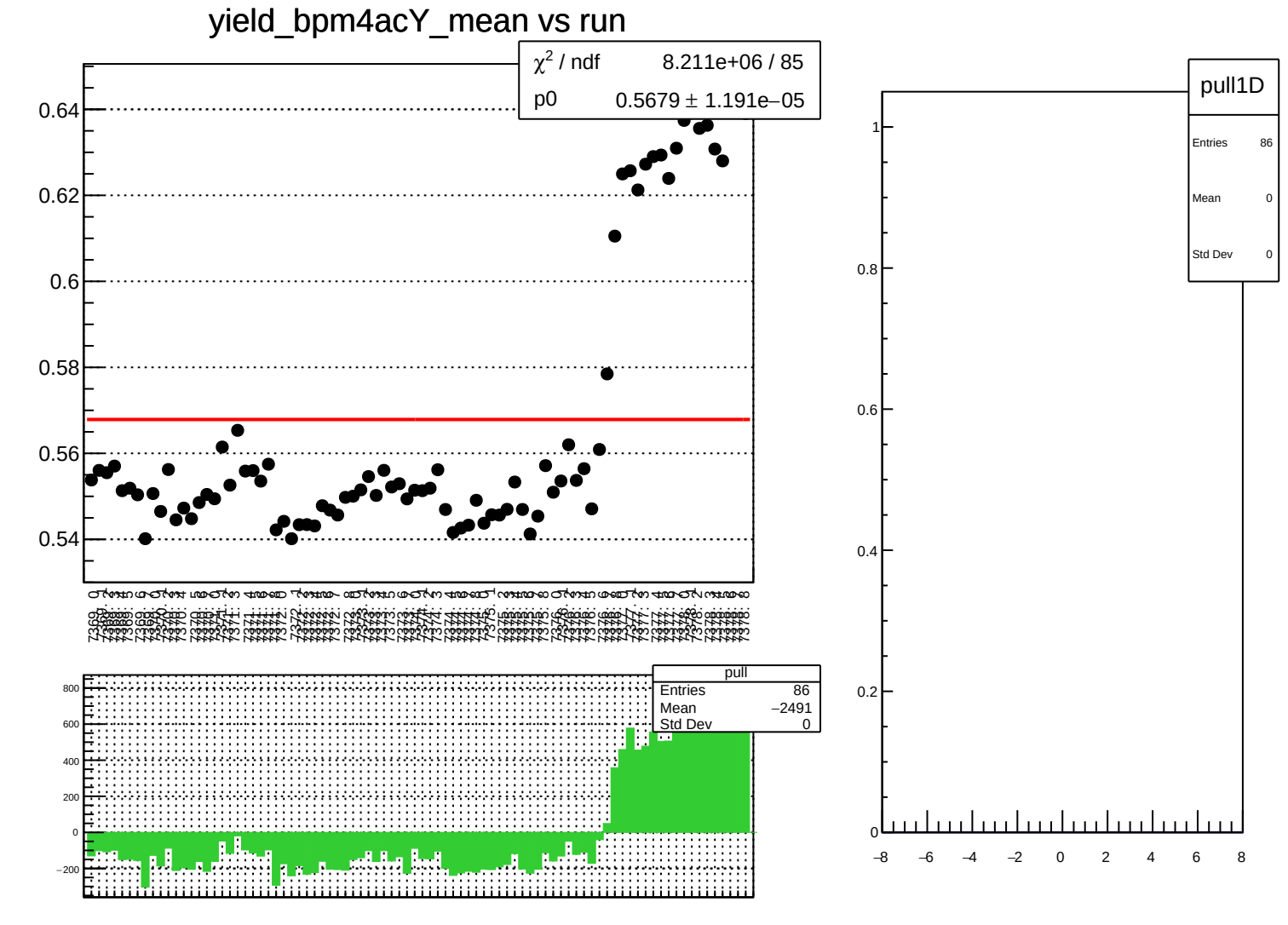

yield_bpm4eY_mean vs run
χ² / ndf 6.381e+04 / 85
p0 0.28 ± 1.453e−05
0.295
0.29
0.285
0.28
0.275
0.27
pull
Entries 86
Mean 76.94
Std Dev 19.65
60
40
20
0
−20
−40
−60

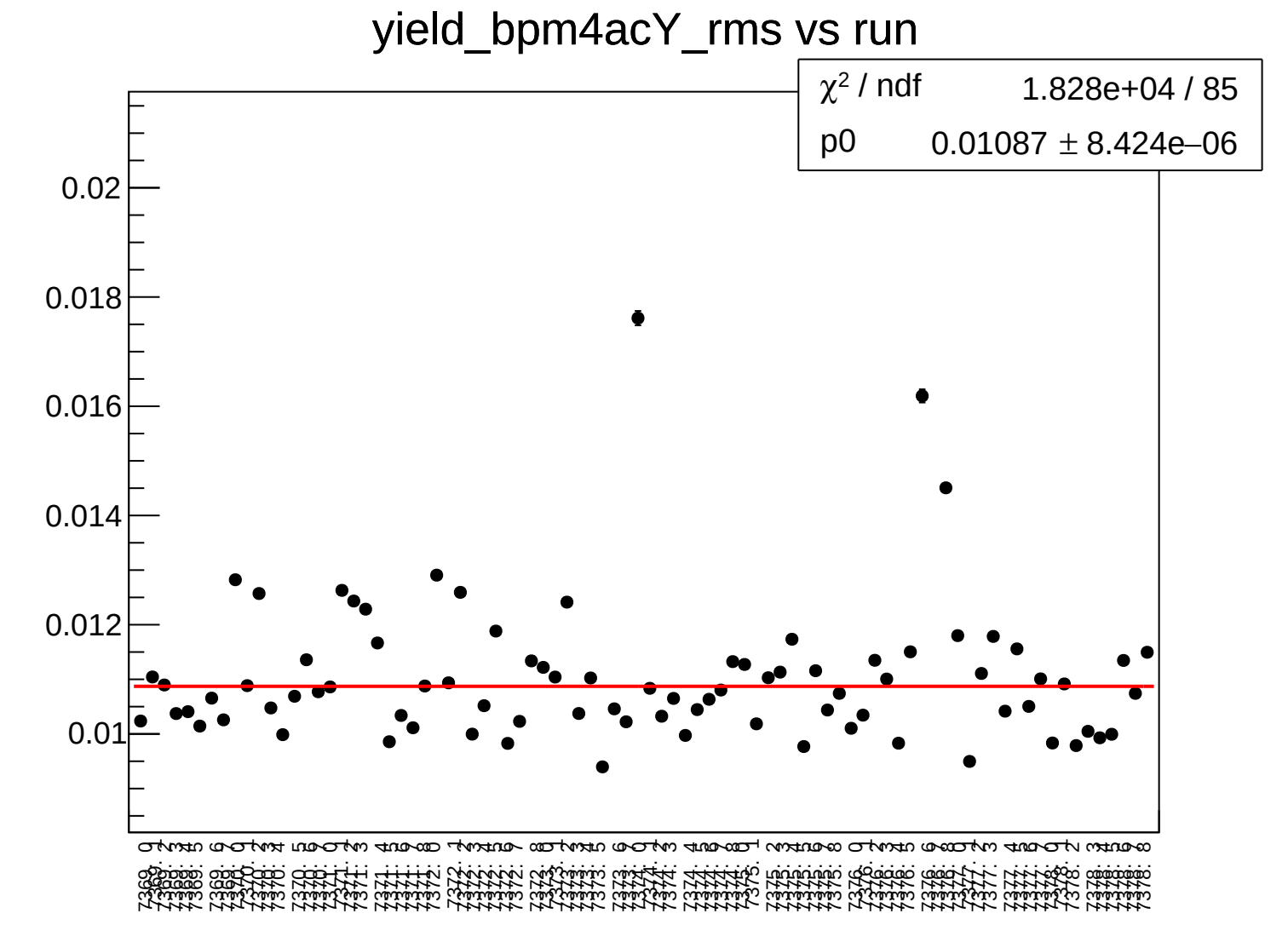

pull1D
Entries 86
Mean 0.5645
Std Dev 4.602
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

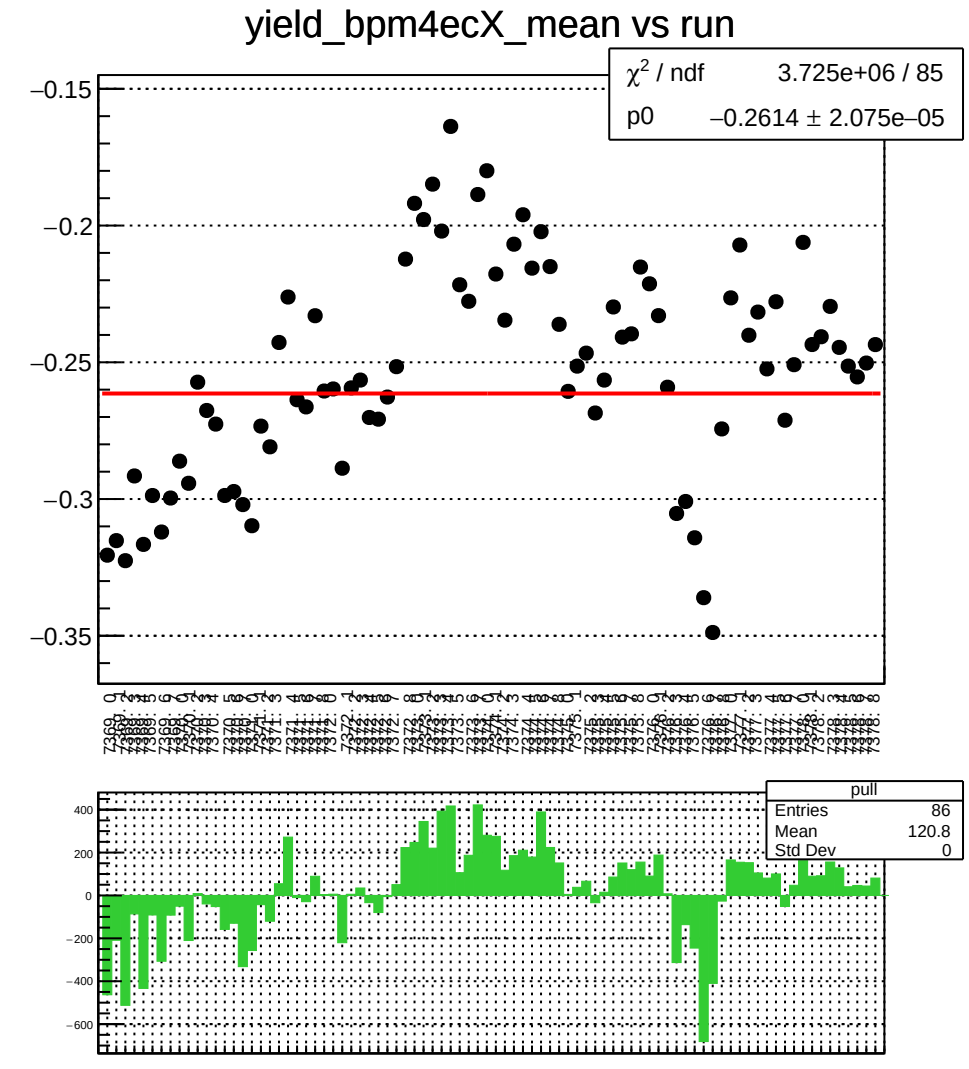

yield_bpm4eY_rms vs run
χ² / ndf 6.614e+04 / 85
p0 0.01307 ± 1.028e–05
0.03
0.025
0.02
0.015
0.01

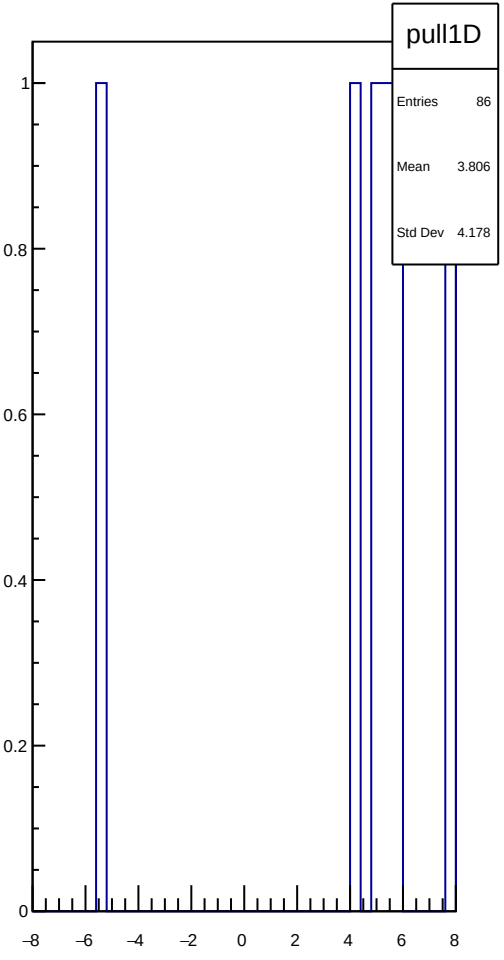

yield_bpm4acX_mean vs run
χ² / ndf 3.454e+06 / 85
p0 −1.132 ± 1.984e−05
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
pull
Entries 86
Mean 424.6
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 86
Mean −2.043
Std Dev 5.065
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

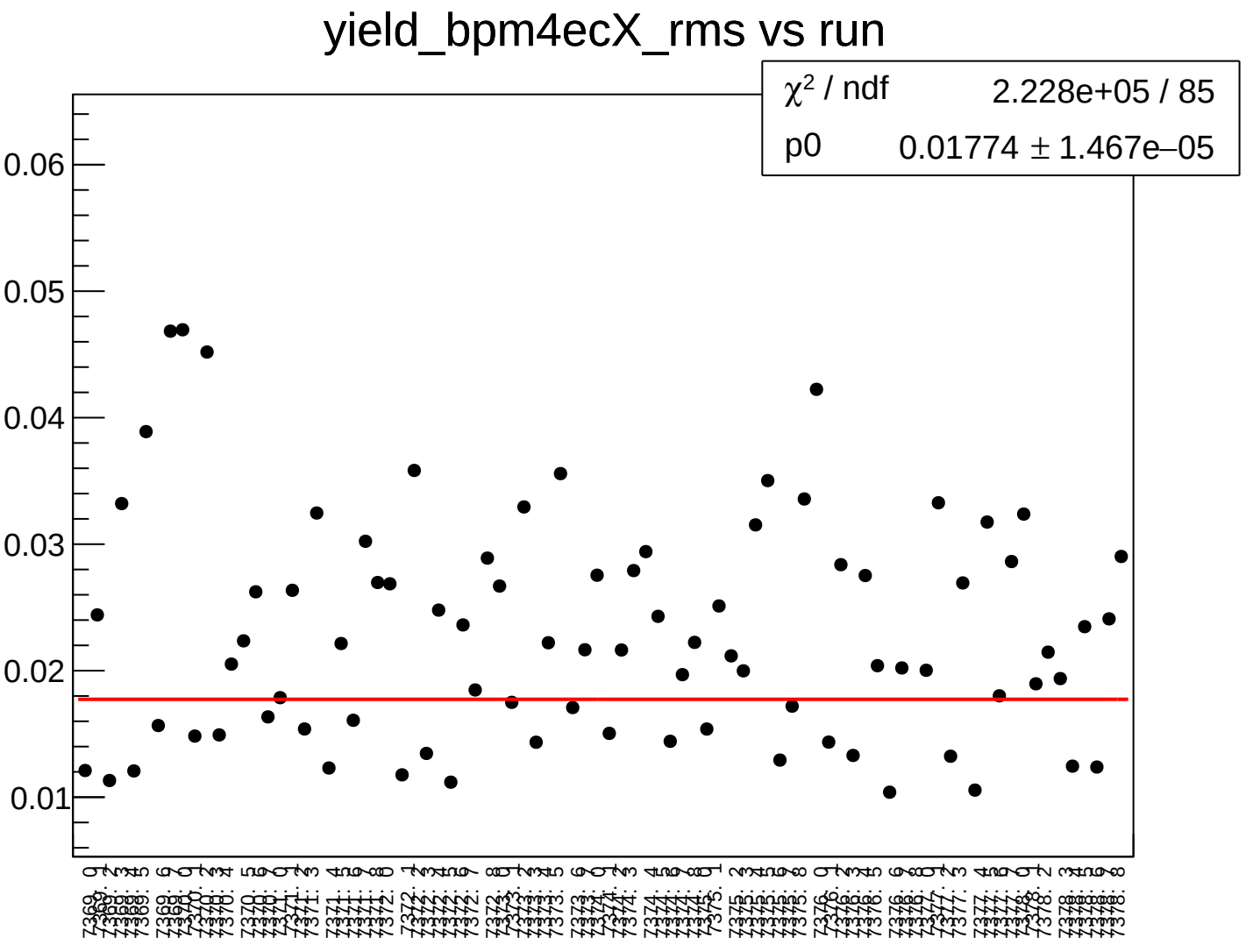

yield_bpm4acX_rms vs run
χ² / ndf 2.603e+05 / 85
p0 0.01674 ± 1.403e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

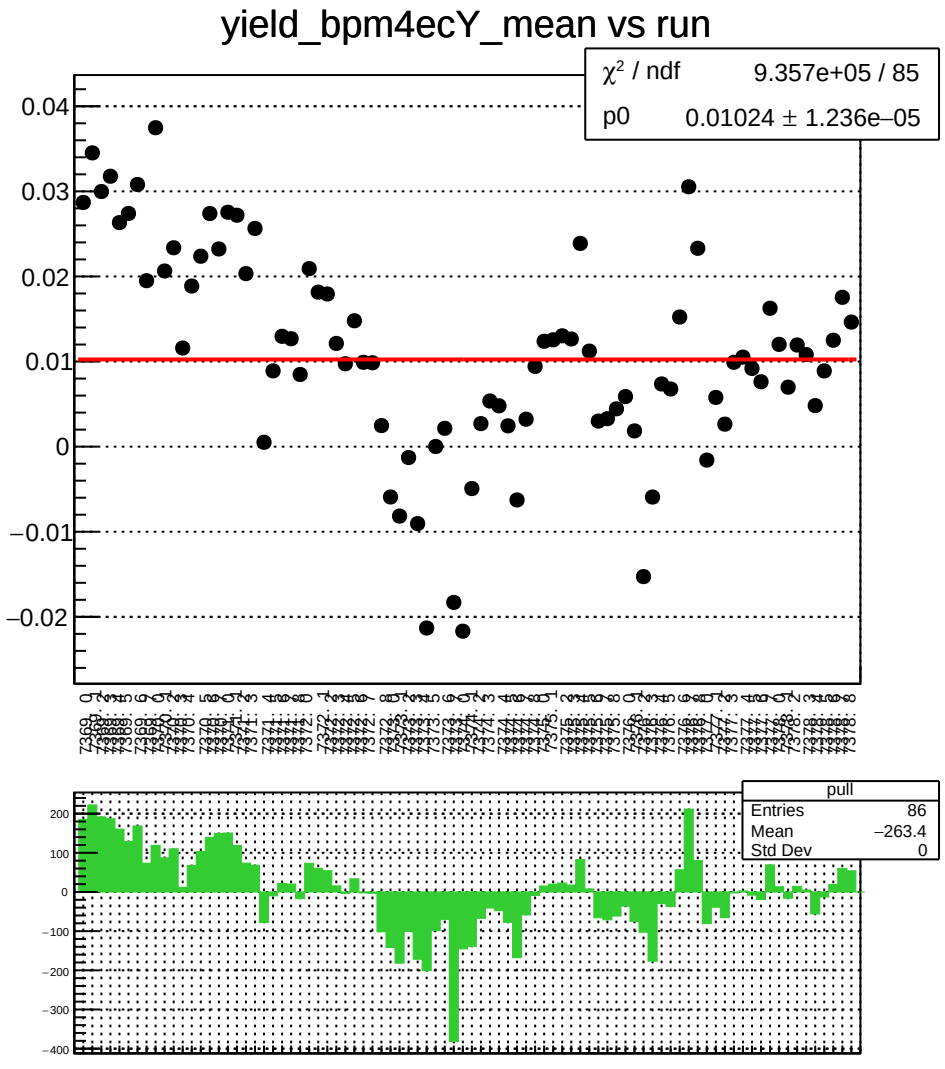

yield_bpm4acY_mean vs run
χ² / ndf 8.211e+06 / 85
p0 0.5679 ± 1.191e−05
0.64
0.62
0.6
0.58
0.56
0.54
pull
Entries 86
Mean −2491
Std Dev 0
800
600
400
200
0
−200
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

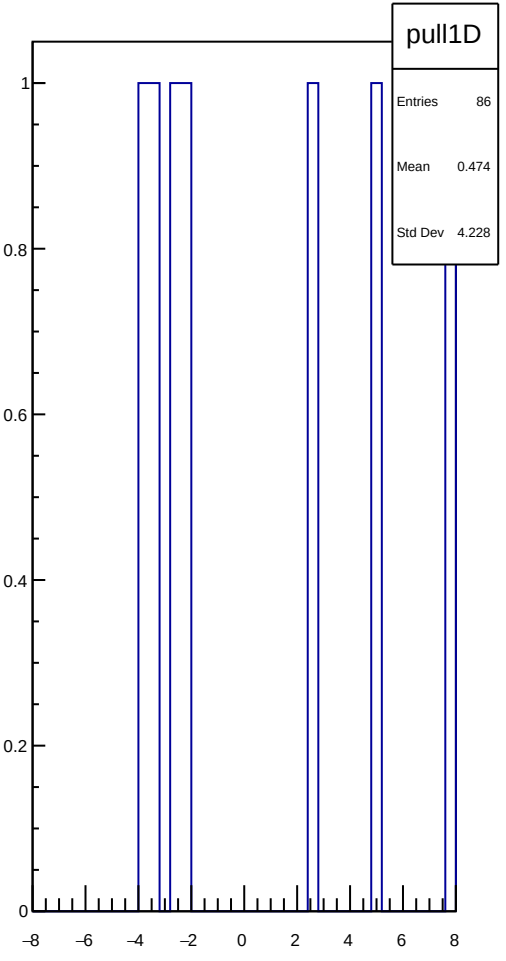

yield_bpm4acY_rms vs run
χ² / ndf 1.828e+04 / 85
p0 0.01087 ± 8.424e–06
0.02
0.018
0.016
0.014
0.012
0.01

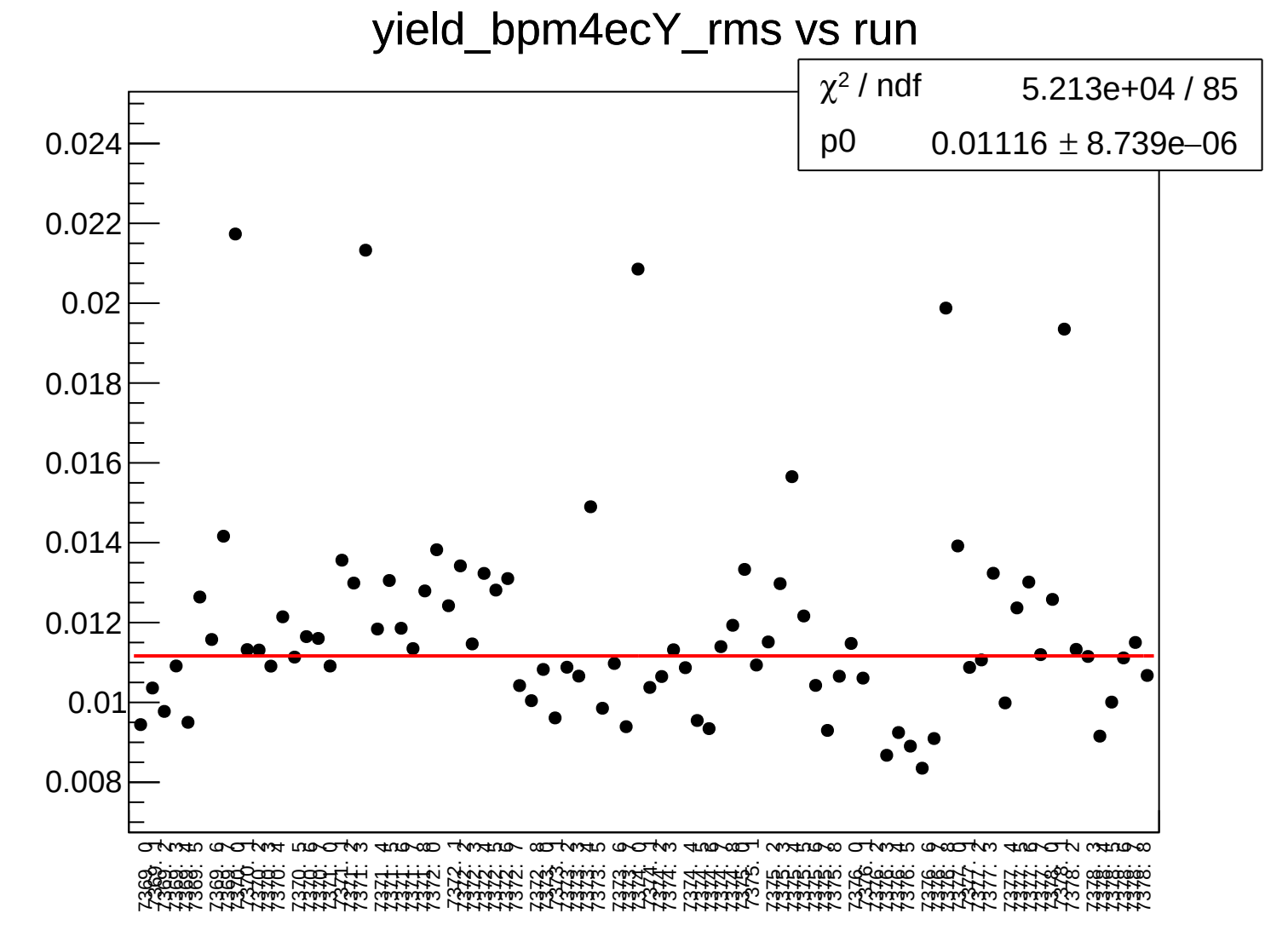

yield_bpm4ecX_mean vs run
χ² / ndf 3.725e+06 / 85
p0 −0.2614 ± 2.075e−05
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 86
Mean 120.8
Std Dev 0
400
200
0
−200
−400
−600

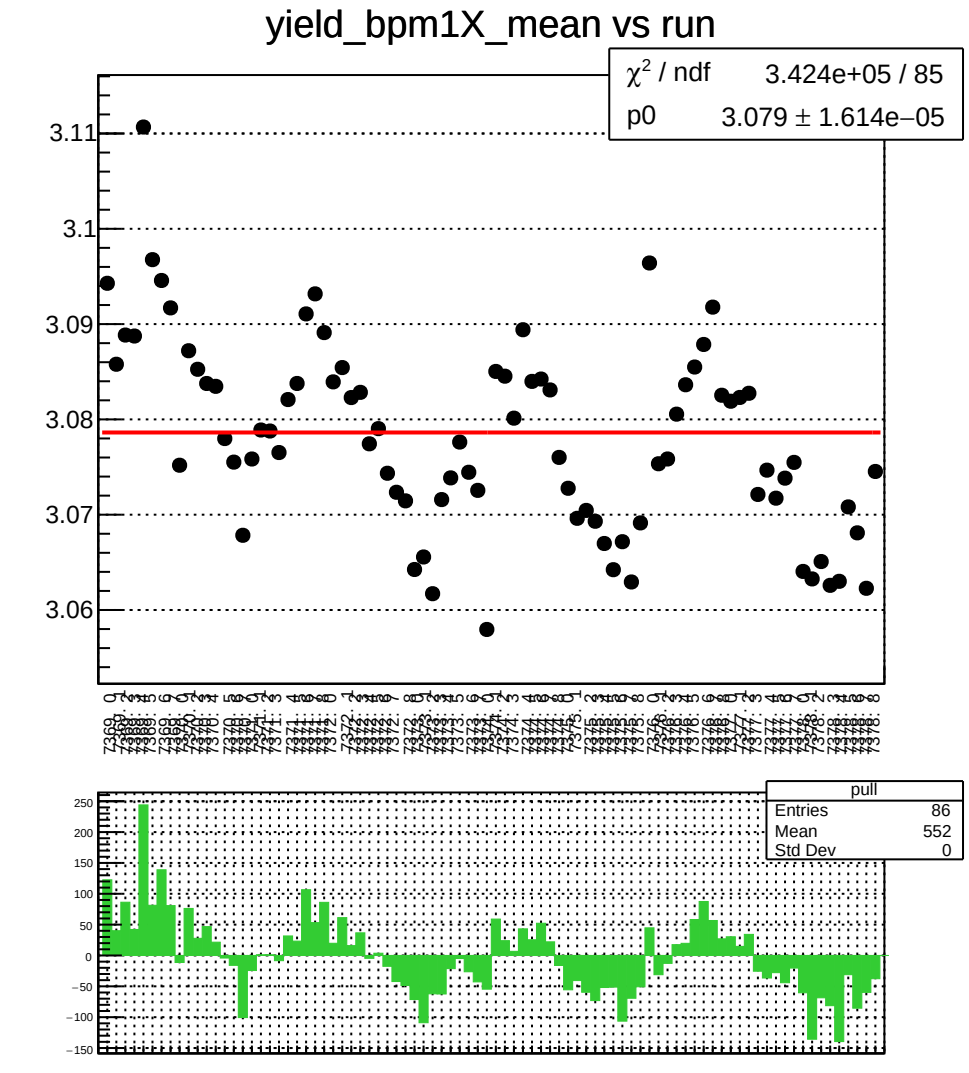

pull1D
Entries 86
Mean 3.806
Std Dev 4.178
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

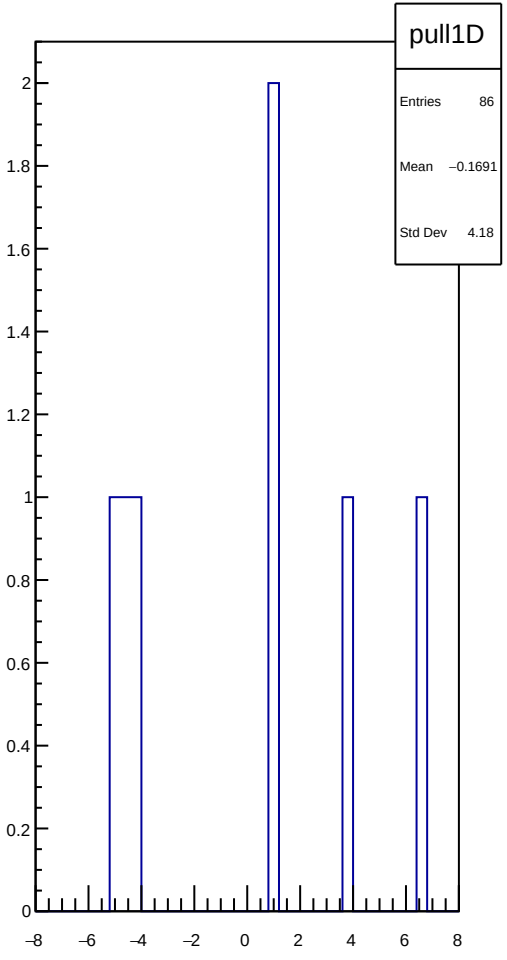

yield_bpm4ecX_rms vs run
χ² / ndf 2.228e+05 / 85
p0 0.01774 ± 1.467e–05
0.06
0.05
0.04
0.03
0.02
0.01

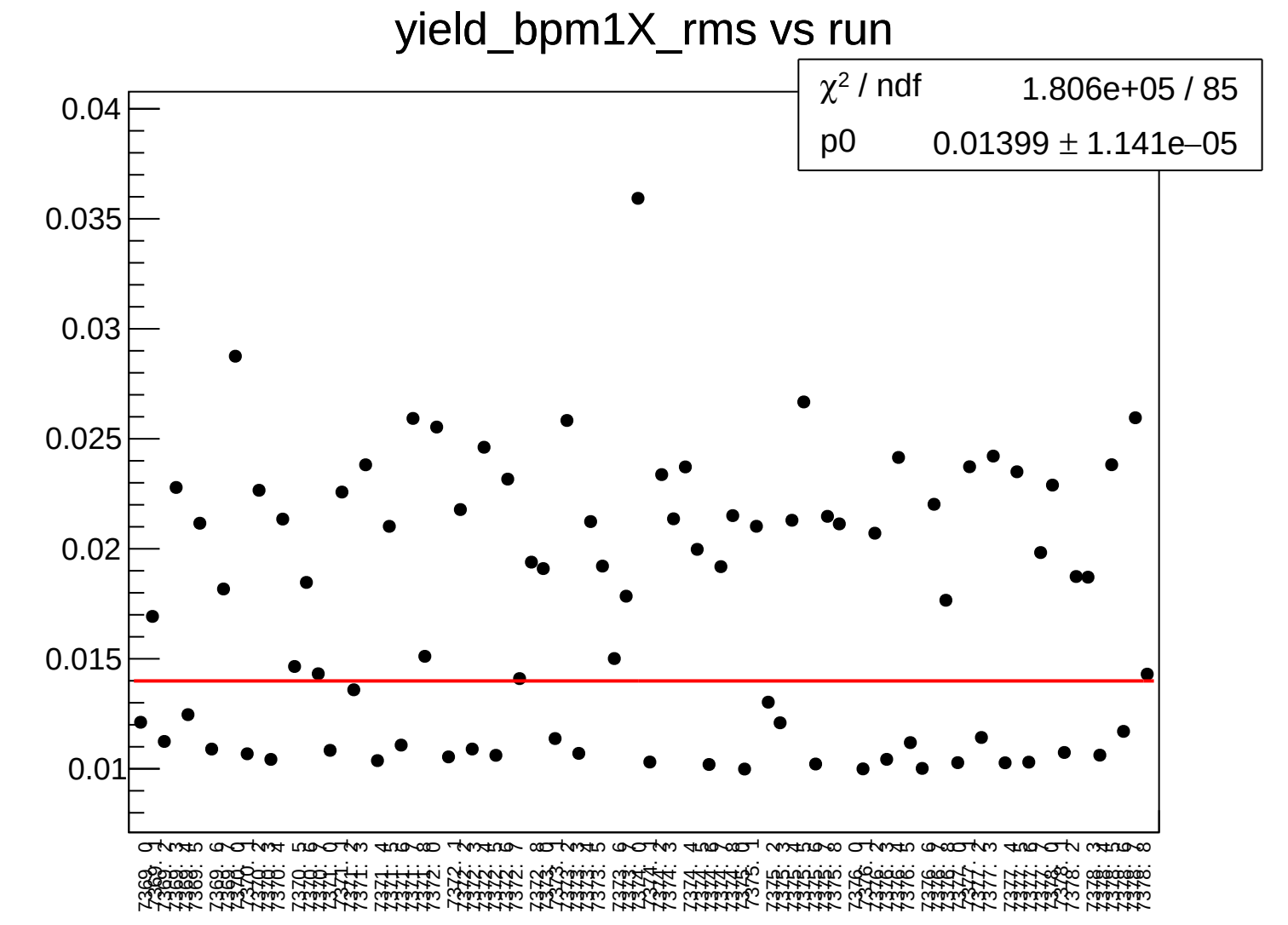

yield_bpm4ecY_mean vs run
χ² / ndf 9.357e+05 / 85
p0 0.01024 ± 1.236e−05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean −263.4
Std Dev 0
200
100
0
−100
−200
−300
−400

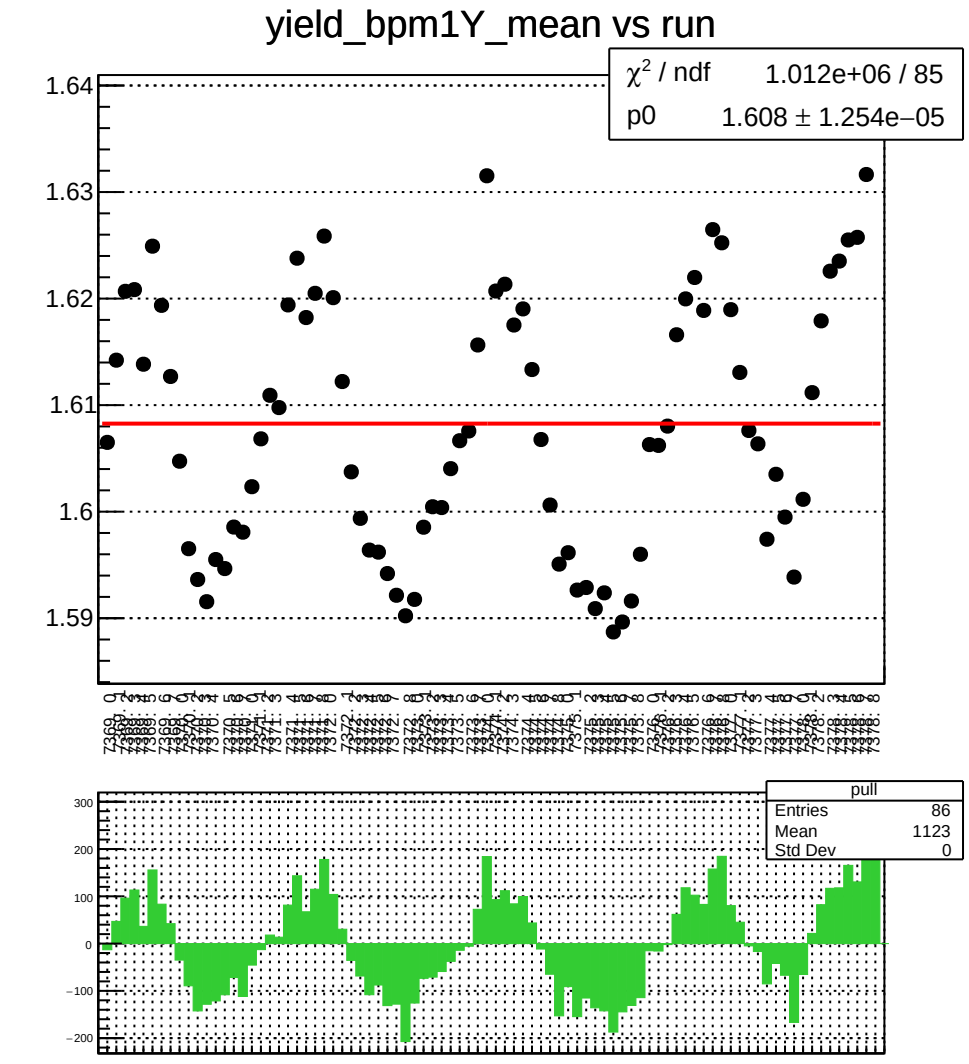

pull1D
Entries 86
Mean 0.474
Std Dev 4.228
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

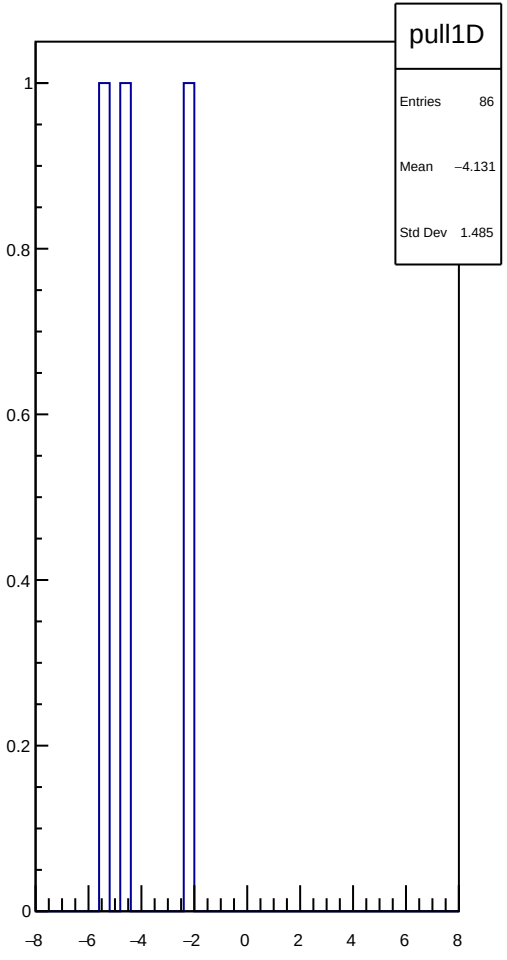

yield_bpm4ecY_rms vs run
χ² / ndf 5.213e+04 / 85
p0 0.01116 ± 8.739e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

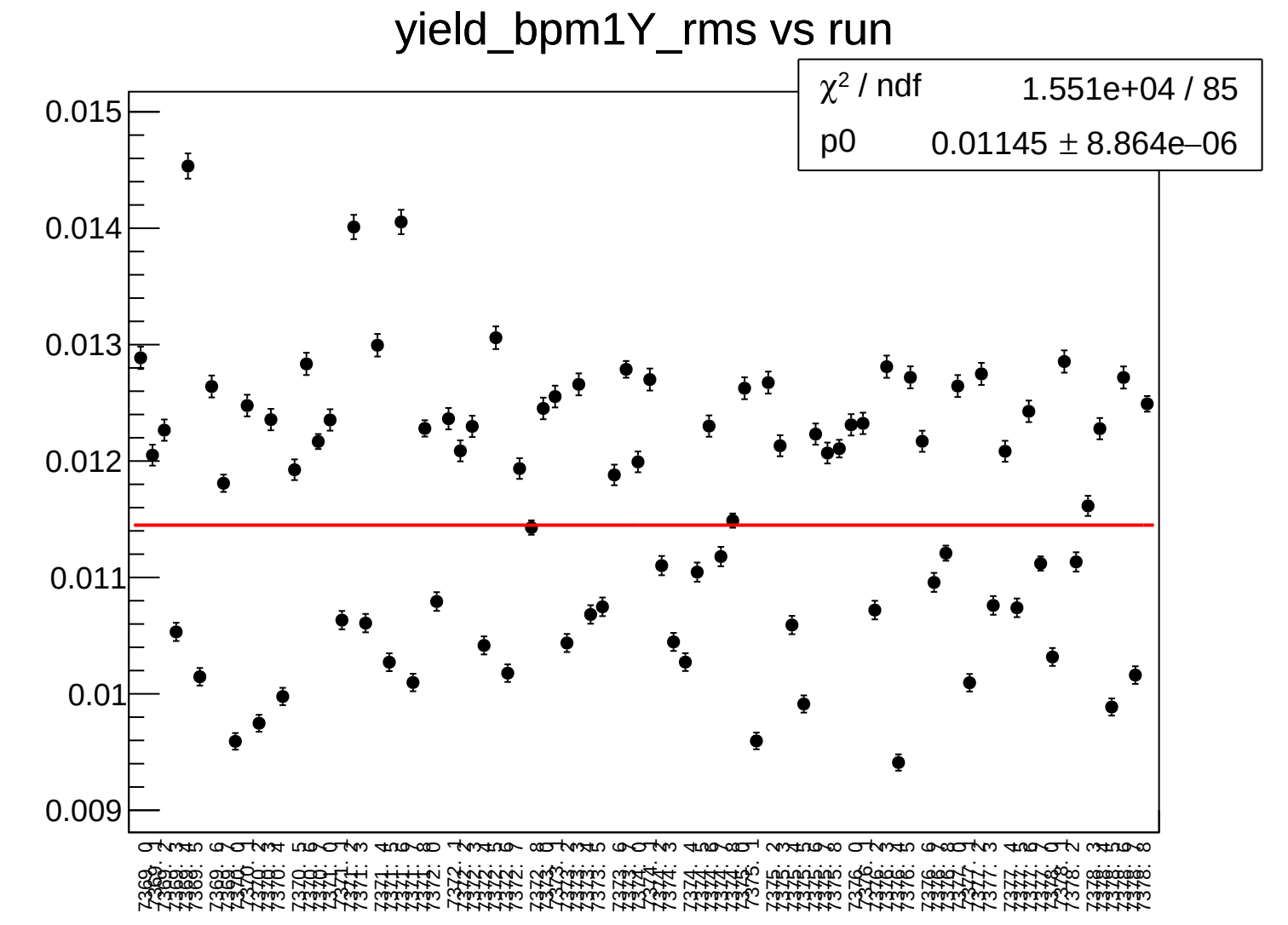

yield_bpm1X_mean vs run
χ² / ndf 3.424e+05 / 85
p0 3.079 ± 1.614e−05
3.11
3.1
3.09
3.08
3.07
3.06
pull
Entries 86
Mean 552
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

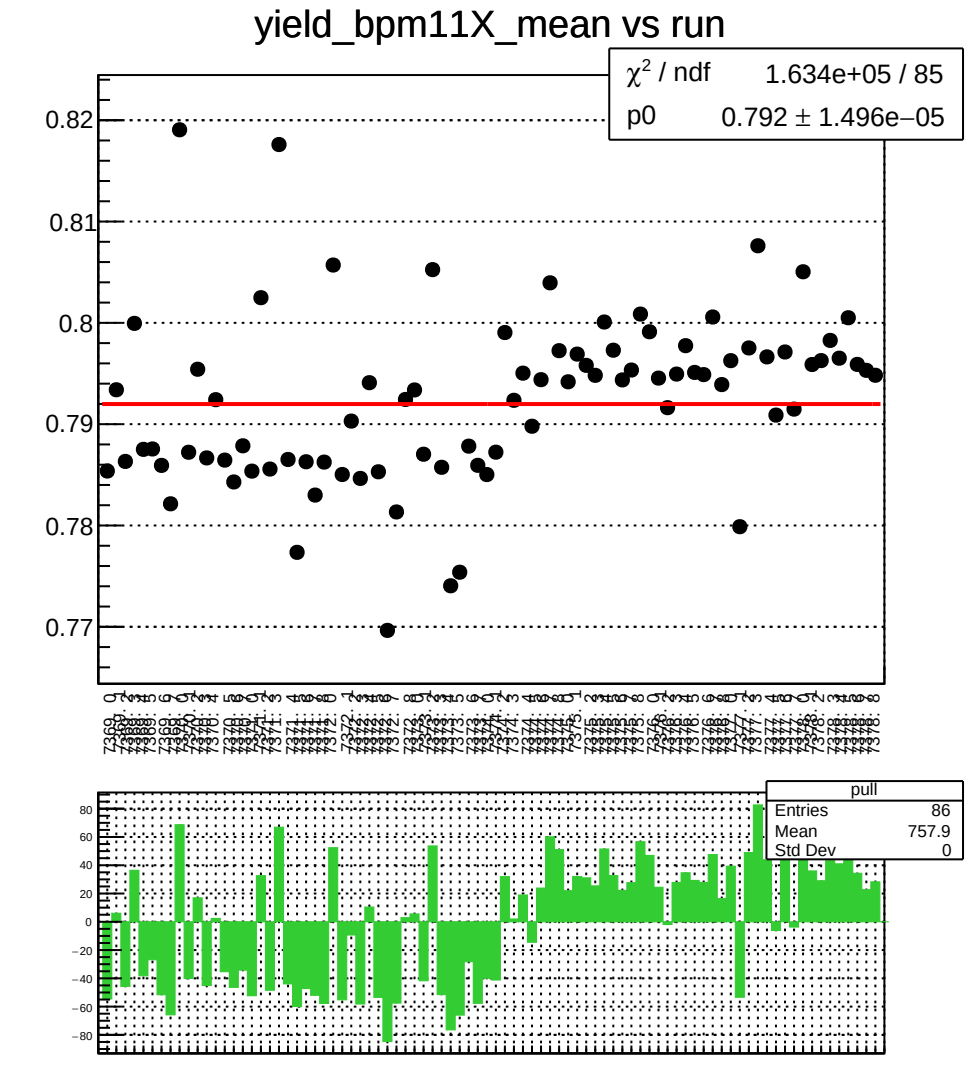

pull1D
Entries 86
Mean −0.1691
Std Dev 4.18
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

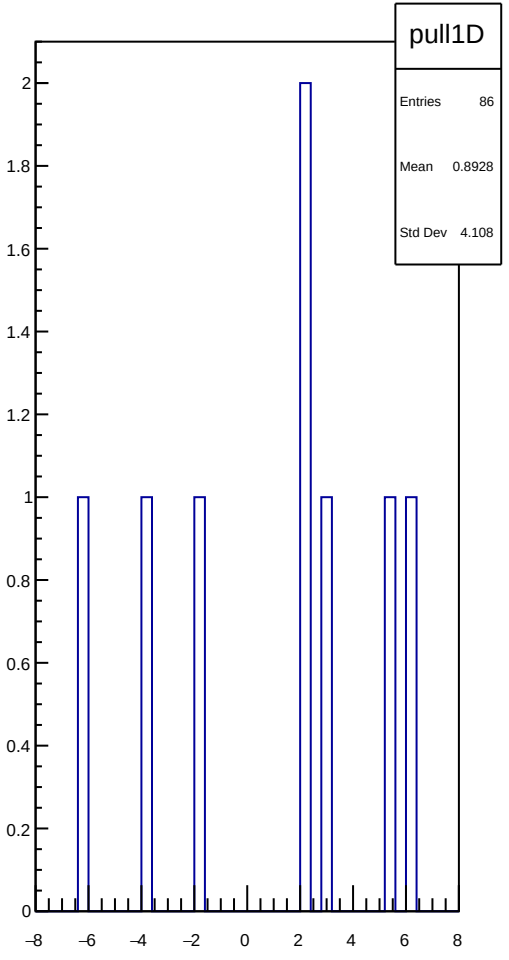

yield_bpm1X_rms vs run
χ² / ndf 1.806e+05 / 85
p0 0.01399 ± 1.141e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

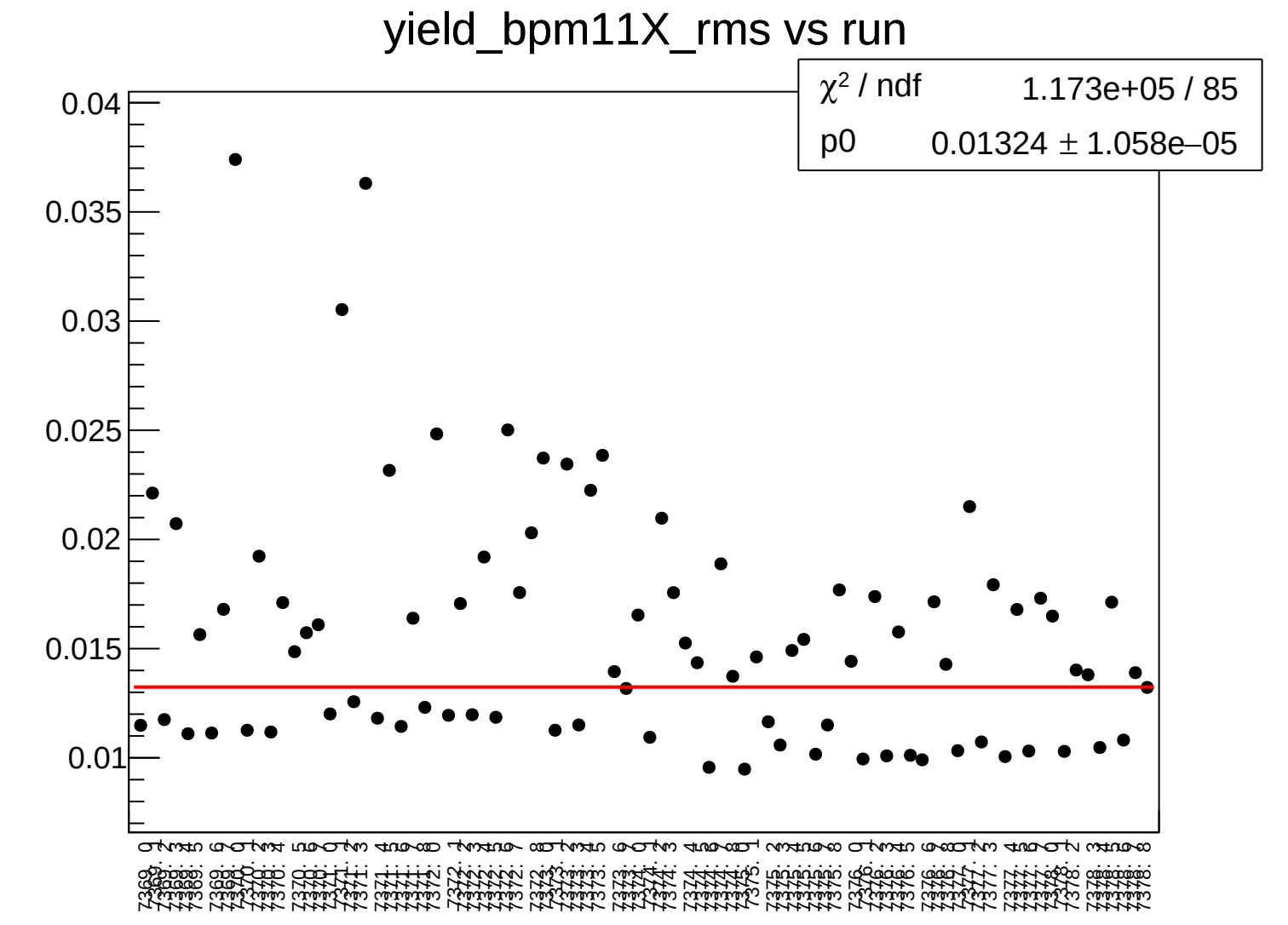

yield_bpm1Y_mean vs run
χ² / ndf 1.012e+06 / 85
p0 1.608 ± 1.254e−05
1.64
1.63
1.62
1.61
1.6
1.59
pull
Entries 86
Mean 1123
Std Dev 0
300
200
100
0
−100
−200

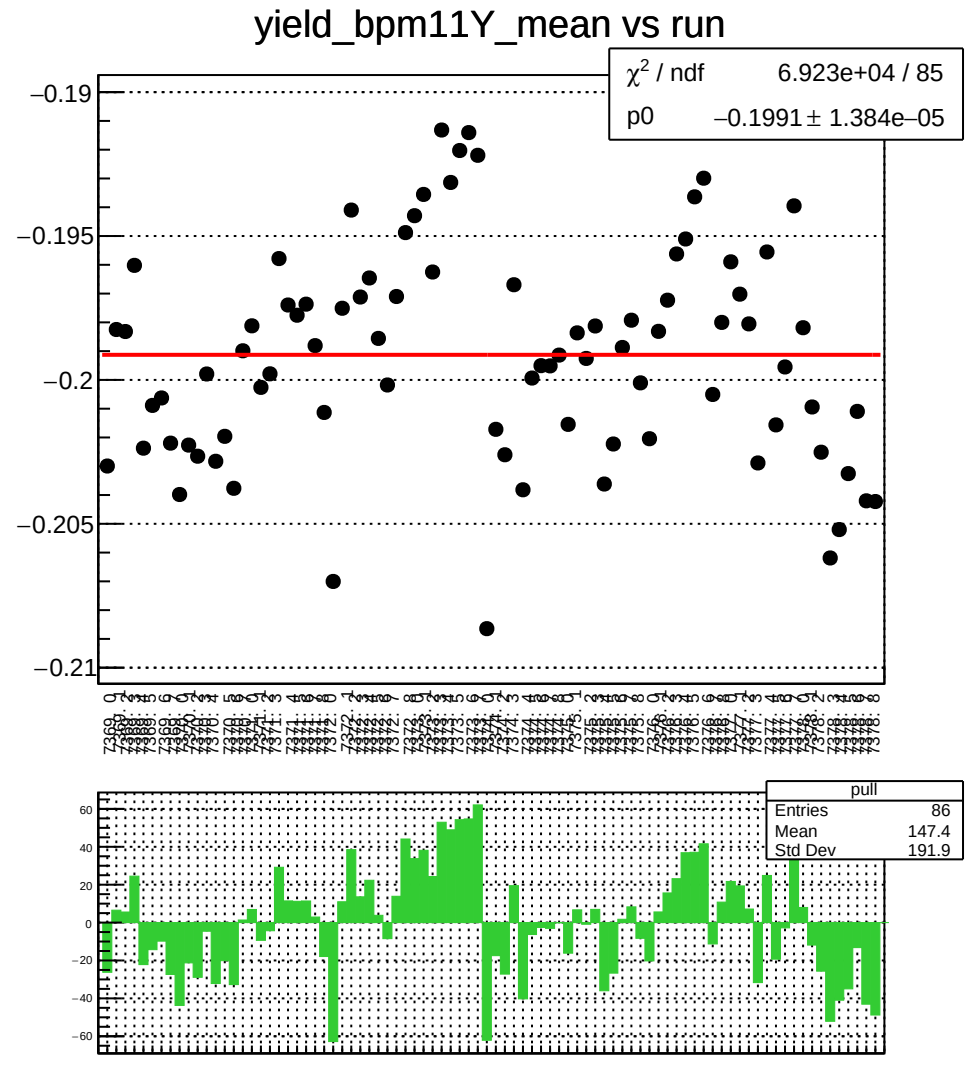

pull1D
Entries 86
Mean −4.131
Std Dev 1.485
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

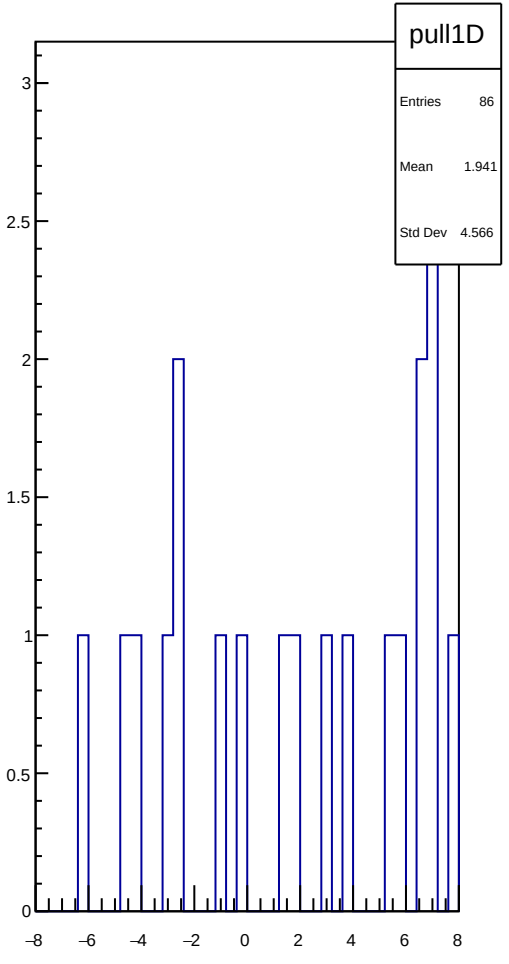

yield_bpm1Y_rms vs run
χ² / ndf 1.551e+04 / 85
p0 0.01145 ± 8.864e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

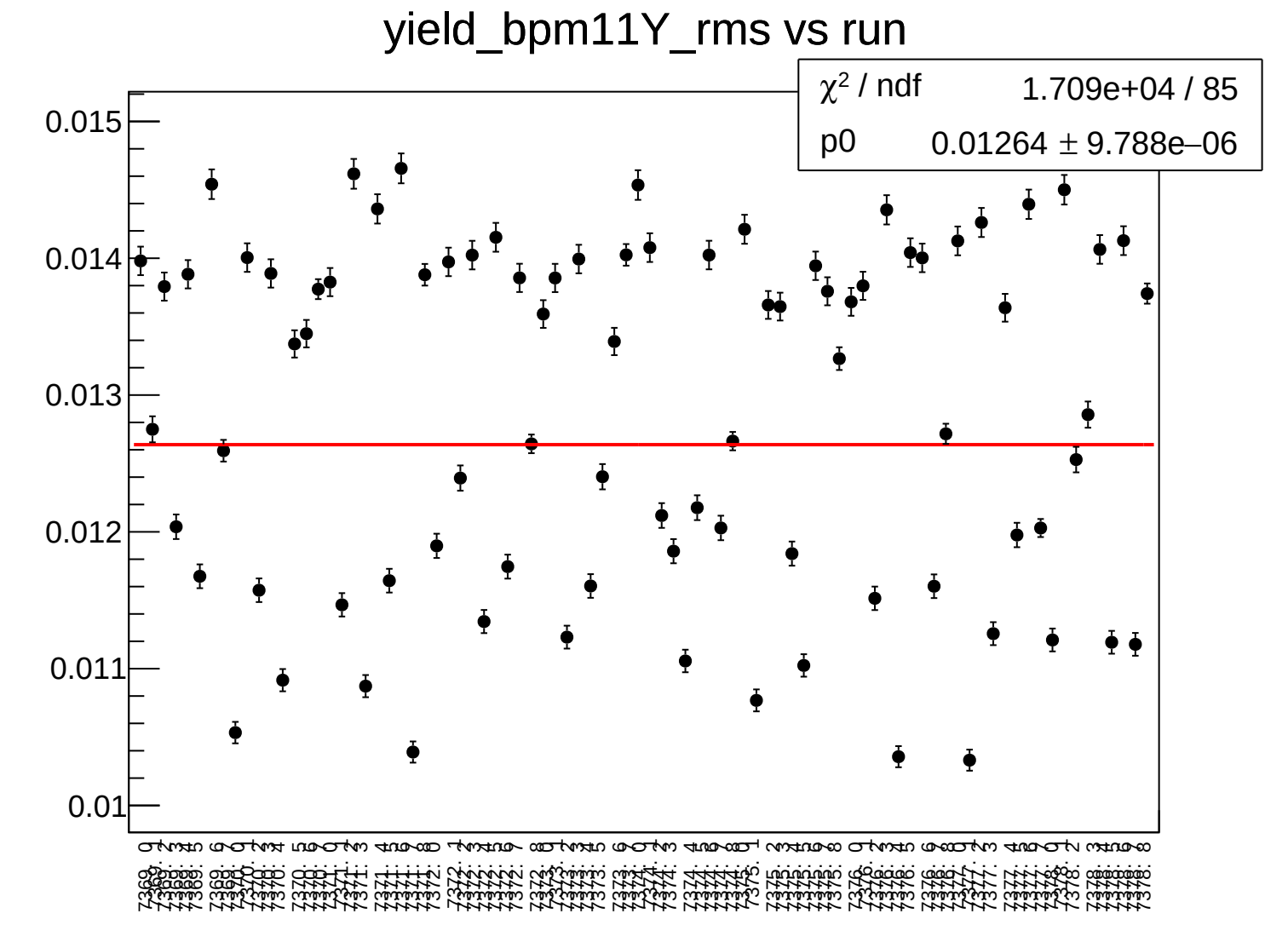

yield_bpm11X_mean vs run
χ² / ndf 1.634e+05 / 85
p0 0.792 ± 1.496e−05
0.82
0.81
0.8
0.79
0.78
0.77
pull
Entries 86
Mean 757.9
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

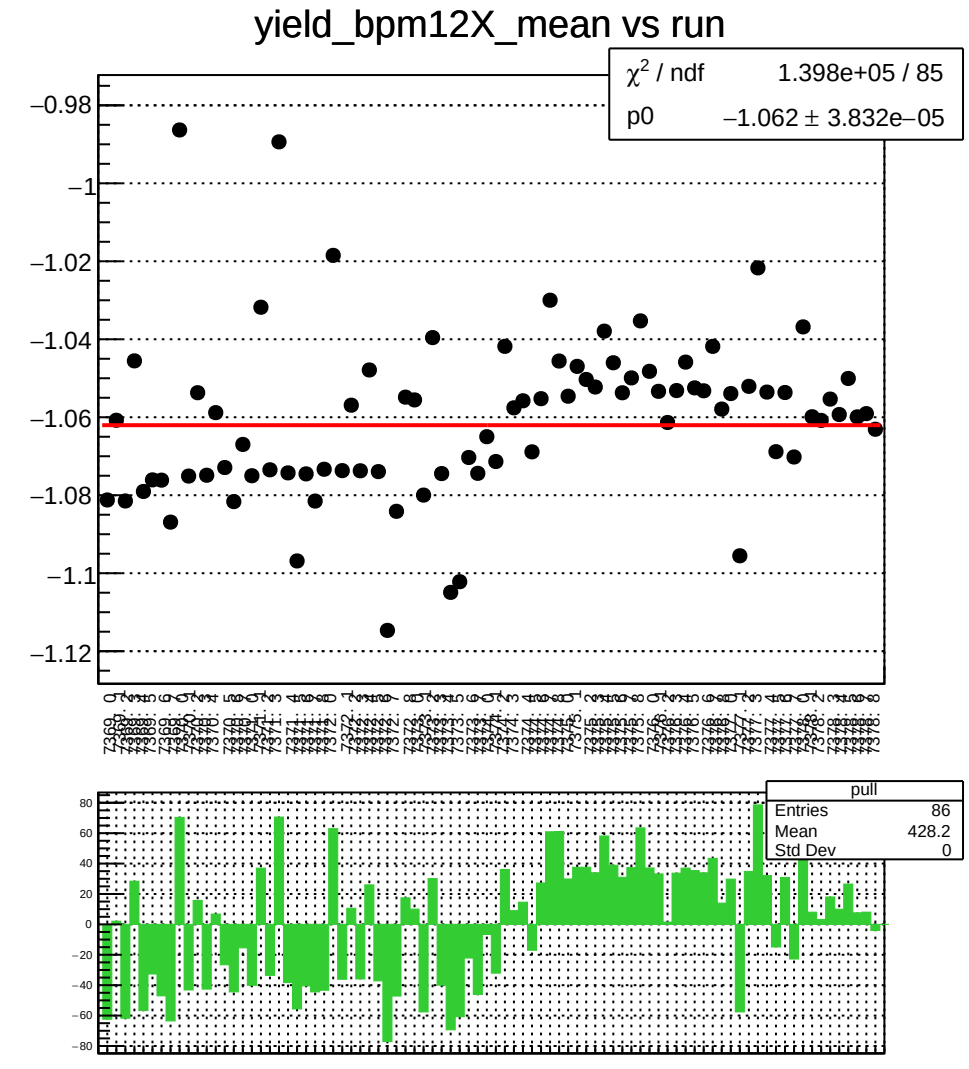

pull1D
Entries 86
Mean 0.8928
Std Dev 4.108
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

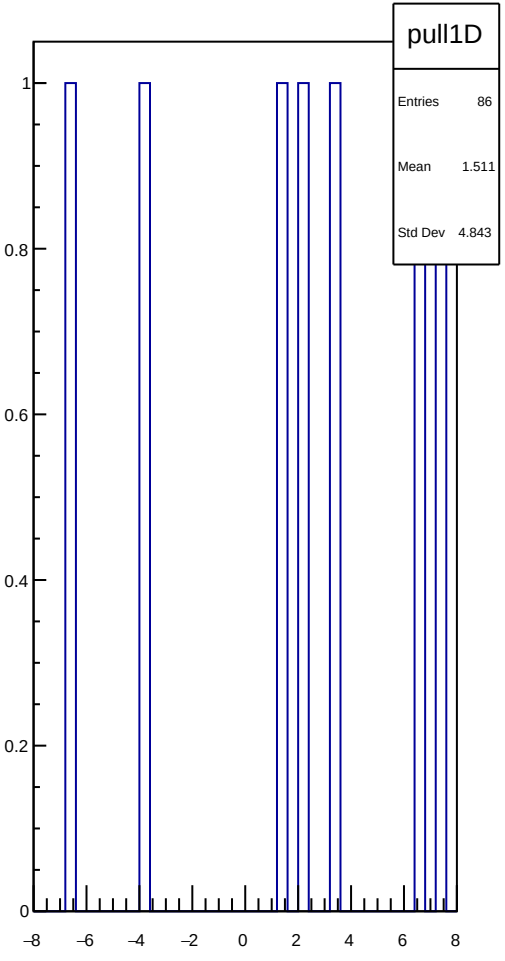

yield_bpm11X_rms vs run
χ² / ndf 1.173e+05 / 85
p0 0.01324 ± 1.058e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

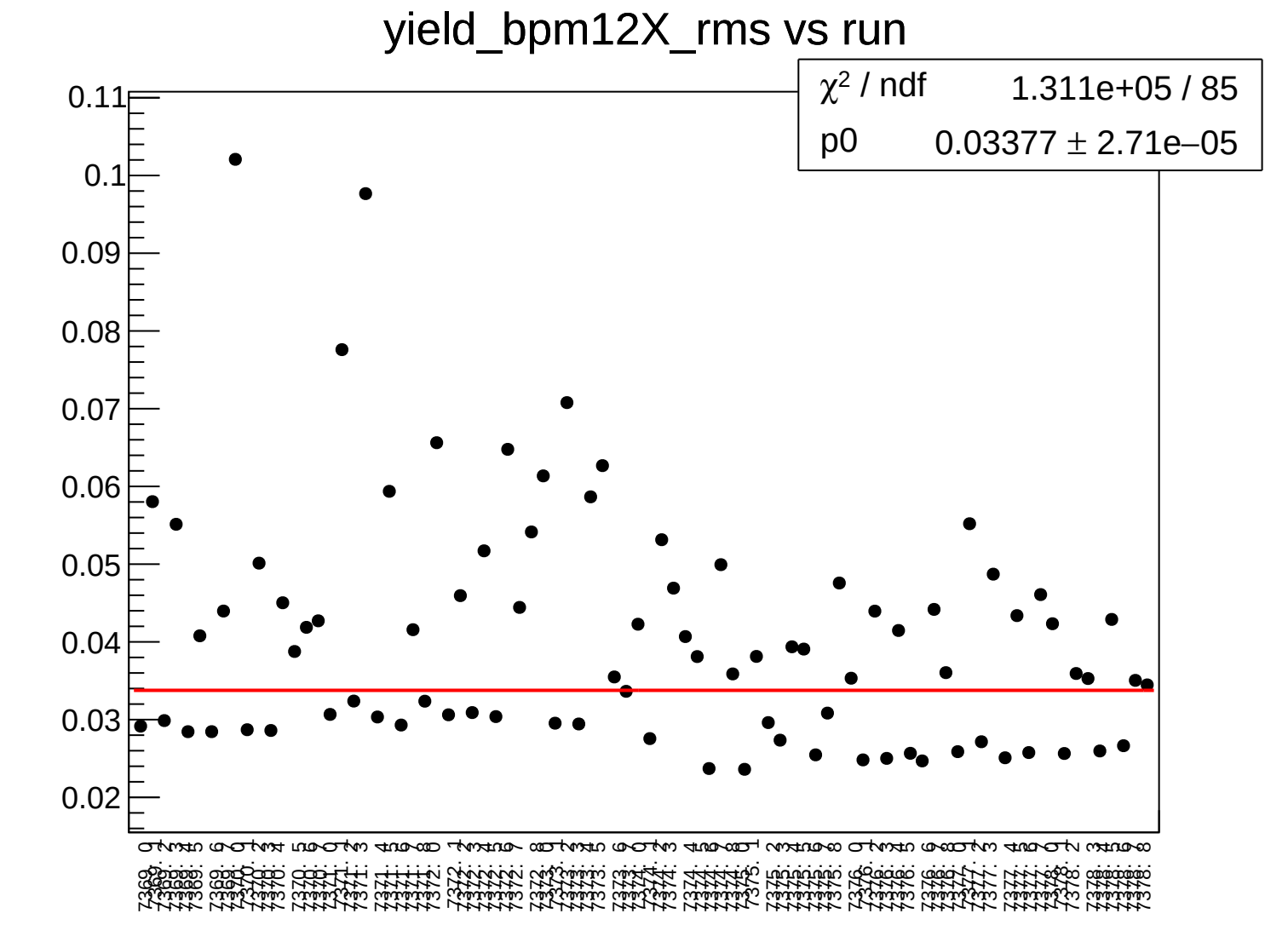

yield_bpm11Y_mean vs run
χ² / ndf 6.923e+04 / 85
p0 −0.1991 ± 1.384e−05
−0.19
−0.195
−0.2
−0.205
−0.21
pull
Entries 86
Mean 147.4
Std Dev 191.9
60
40
20
0
−20
−40
−60

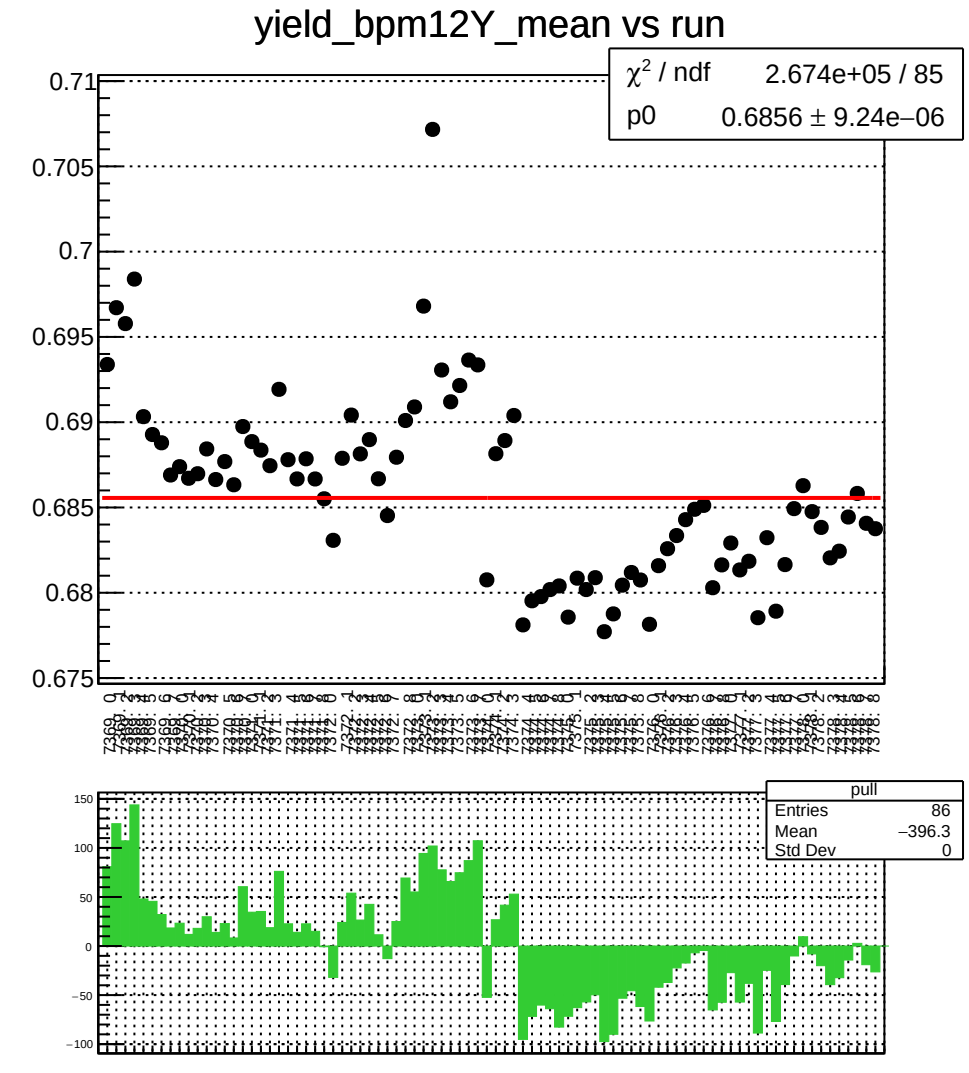

pull1D
Entries 86
Mean 1.941
Std Dev 4.566
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

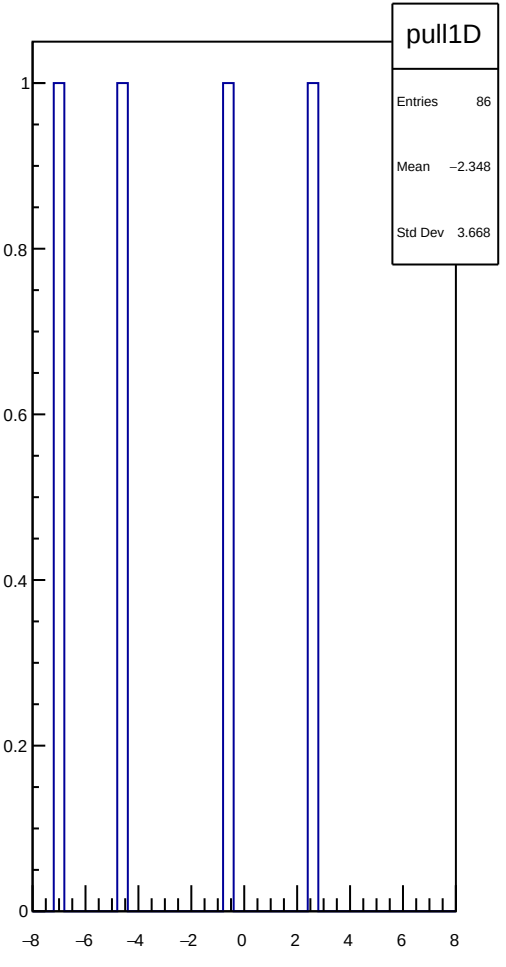

yield_bpm11Y_rms vs run
χ² / ndf 1.709e+04 / 85
p0 0.01264 ± 9.788e–06
0.015
0.014
0.013
0.012
0.011
0.01

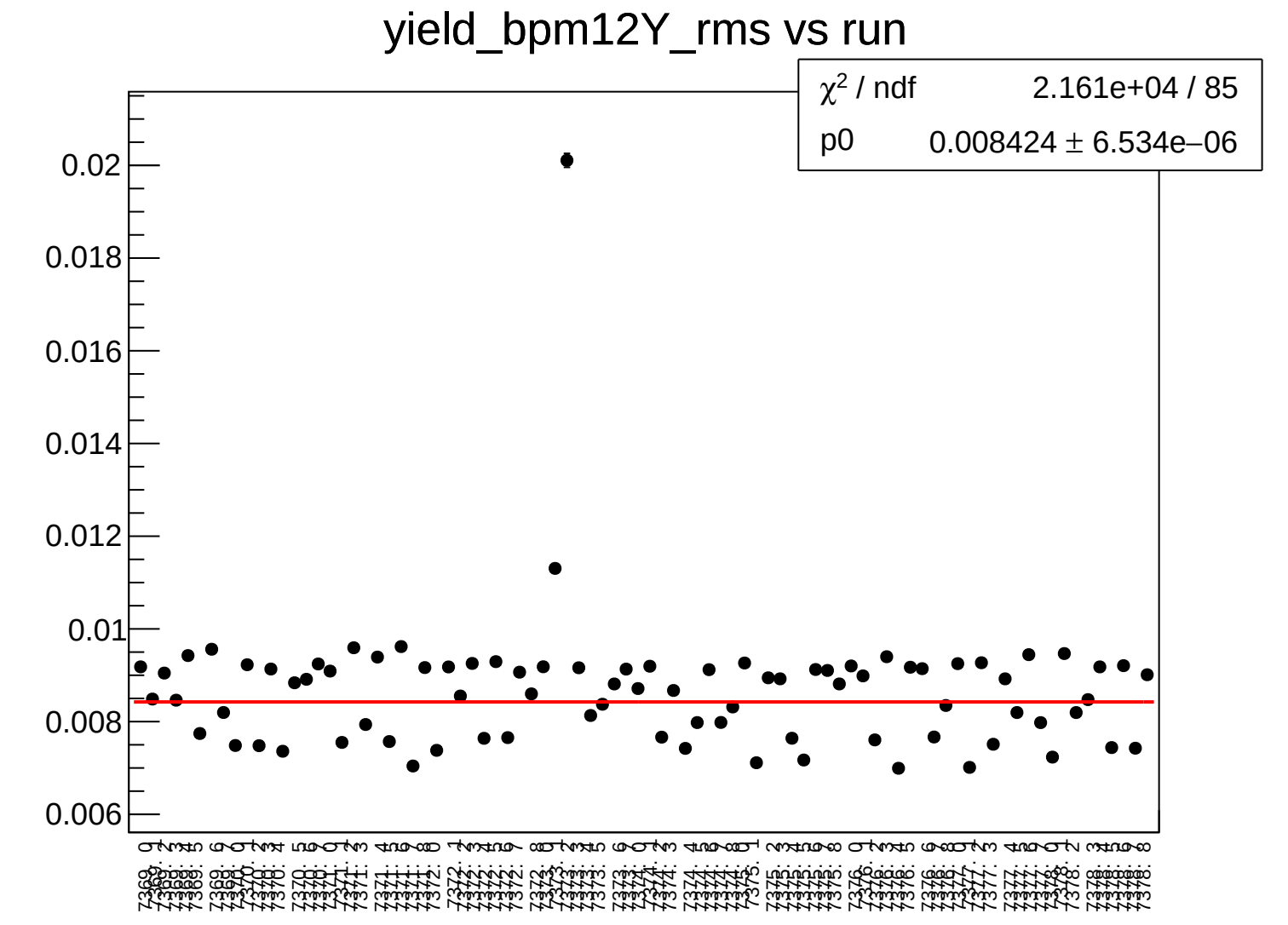

yield_bpm12X_mean vs run
χ² / ndf 1.398e+05 / 85
p0 −1.062 ± 3.832e−05
−0.98
−1
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
pull
Entries 86
Mean 428.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

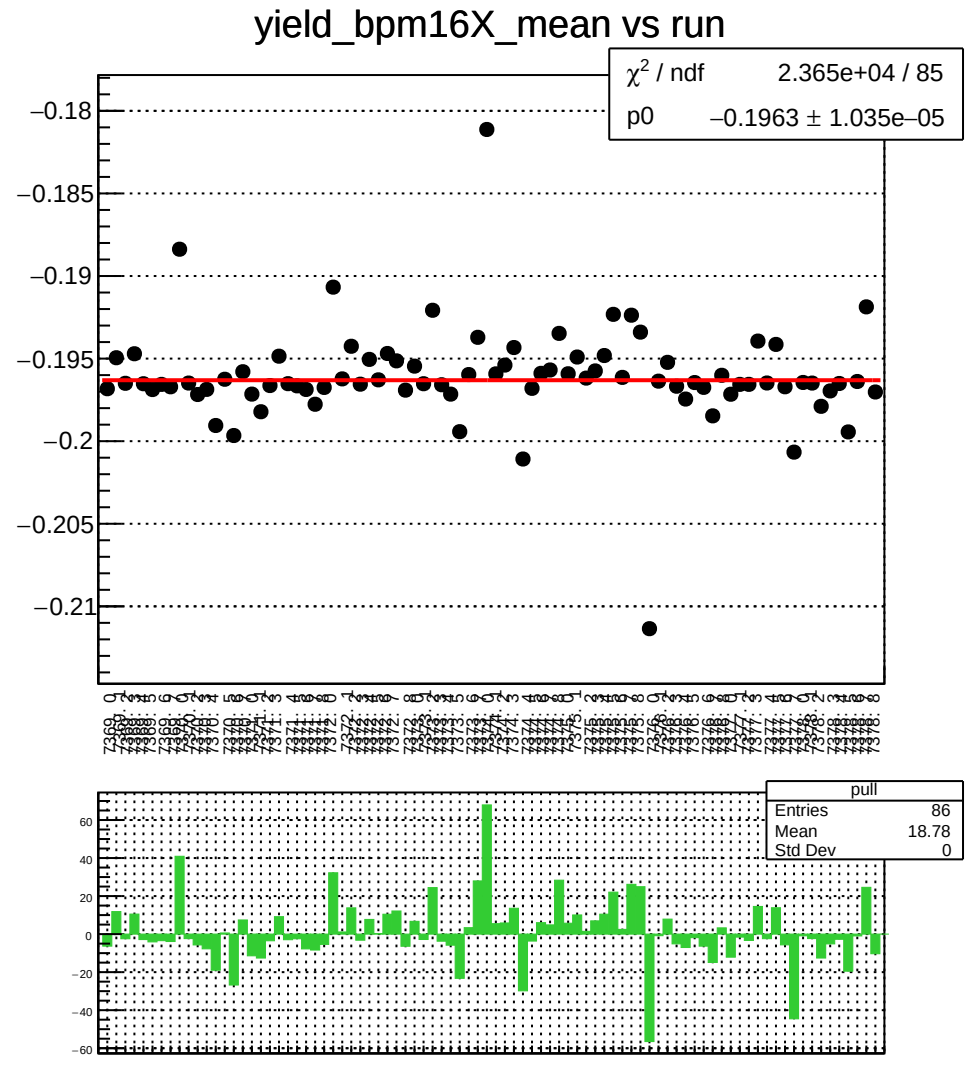

pull1D
Entries 86
Mean 1.511
Std Dev 4.843
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

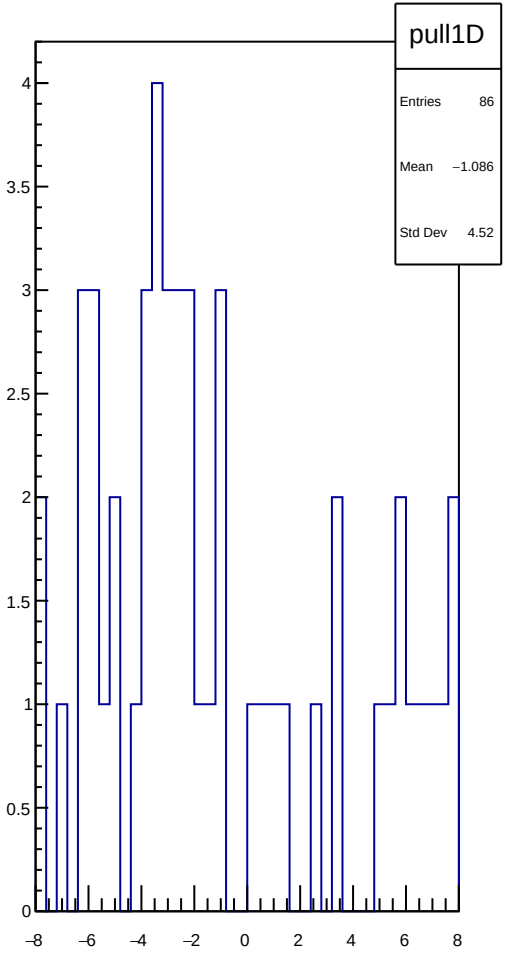

yield_bpm12X_rms vs run
χ² / ndf 1.311e+05 / 85
p0 0.03377 ± 2.71e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

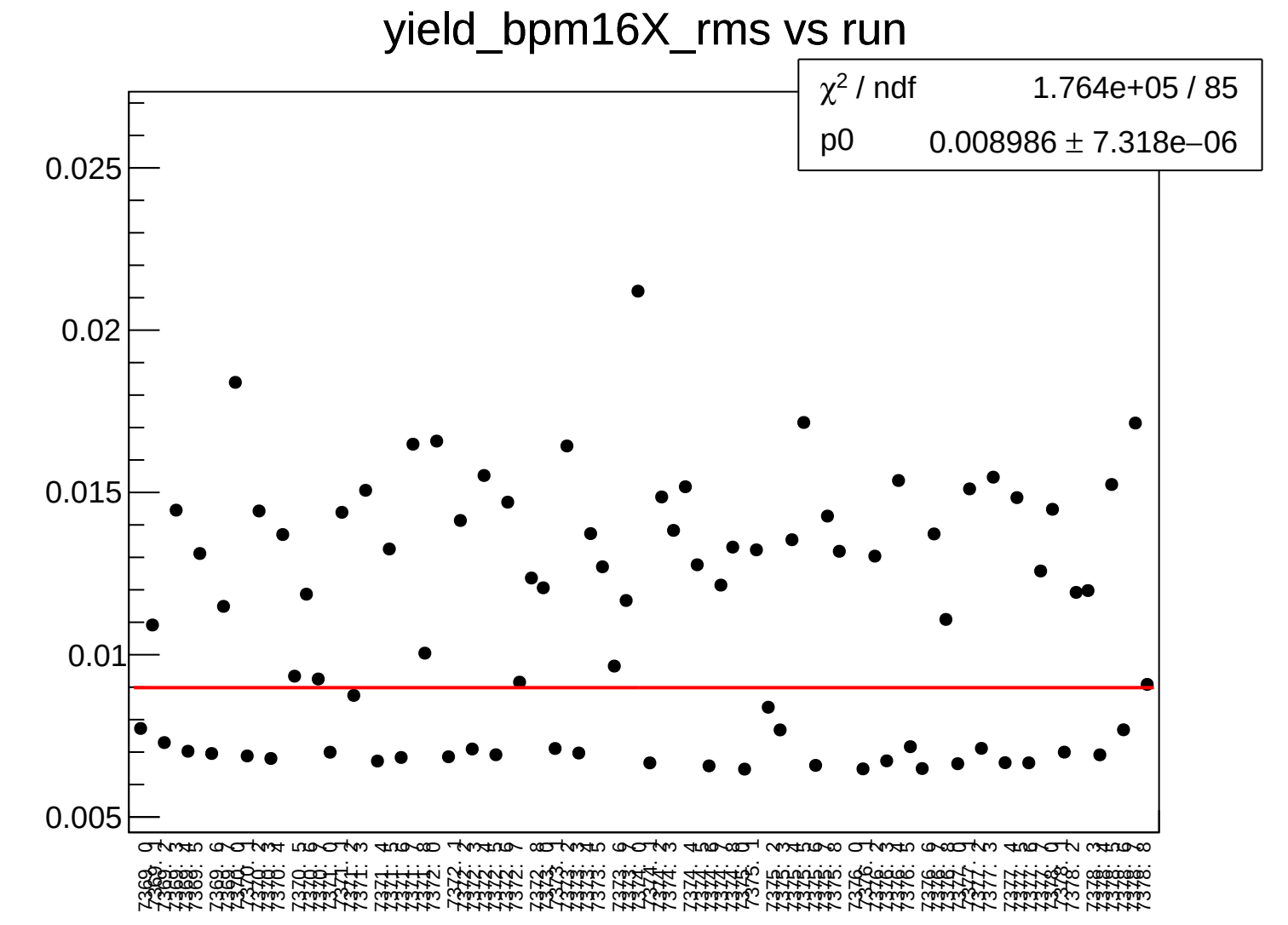

yield_bpm12Y_mean vs run
χ² / ndf 2.674e+05 / 85
p0 0.6856 ± 9.24e−06
0.71
0.705
0.7
0.695
0.69
0.685
0.68
0.675
pull
Entries 86
Mean −396.3
Std Dev 0
150
100
50
0
−50
−100

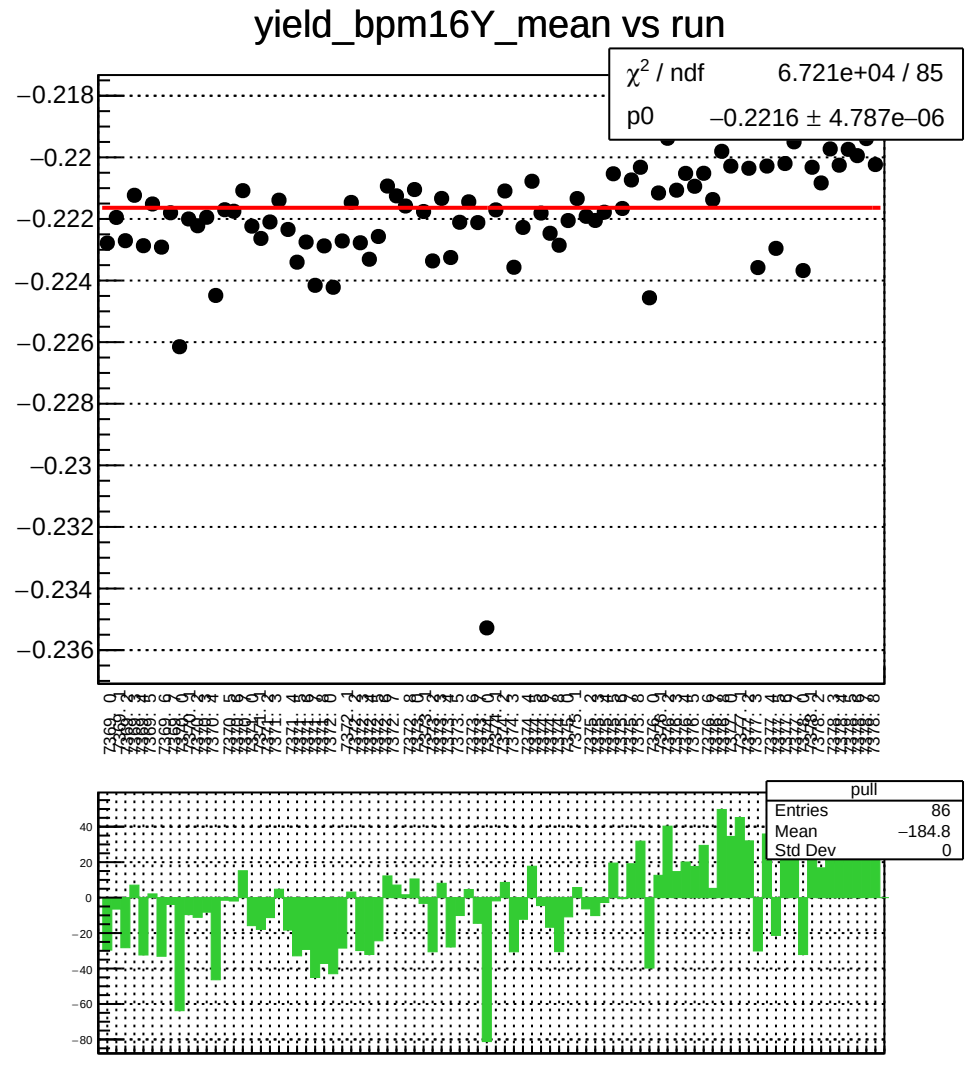

pull1D
Entries 86
Mean −2.348
Std Dev 3.668
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

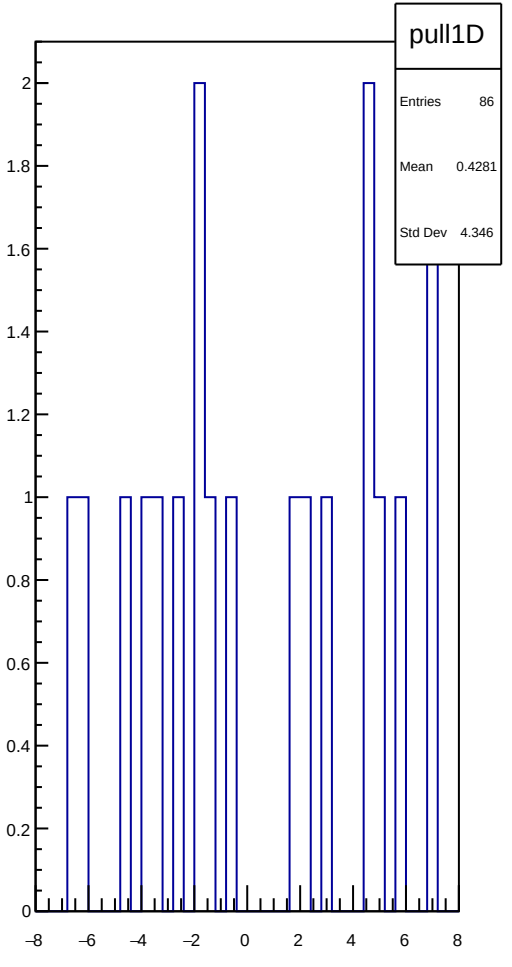

yield_bpm12Y_rms vs run
χ² / ndf 2.161e+04 / 85
p0 0.008424 ± 6.534e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

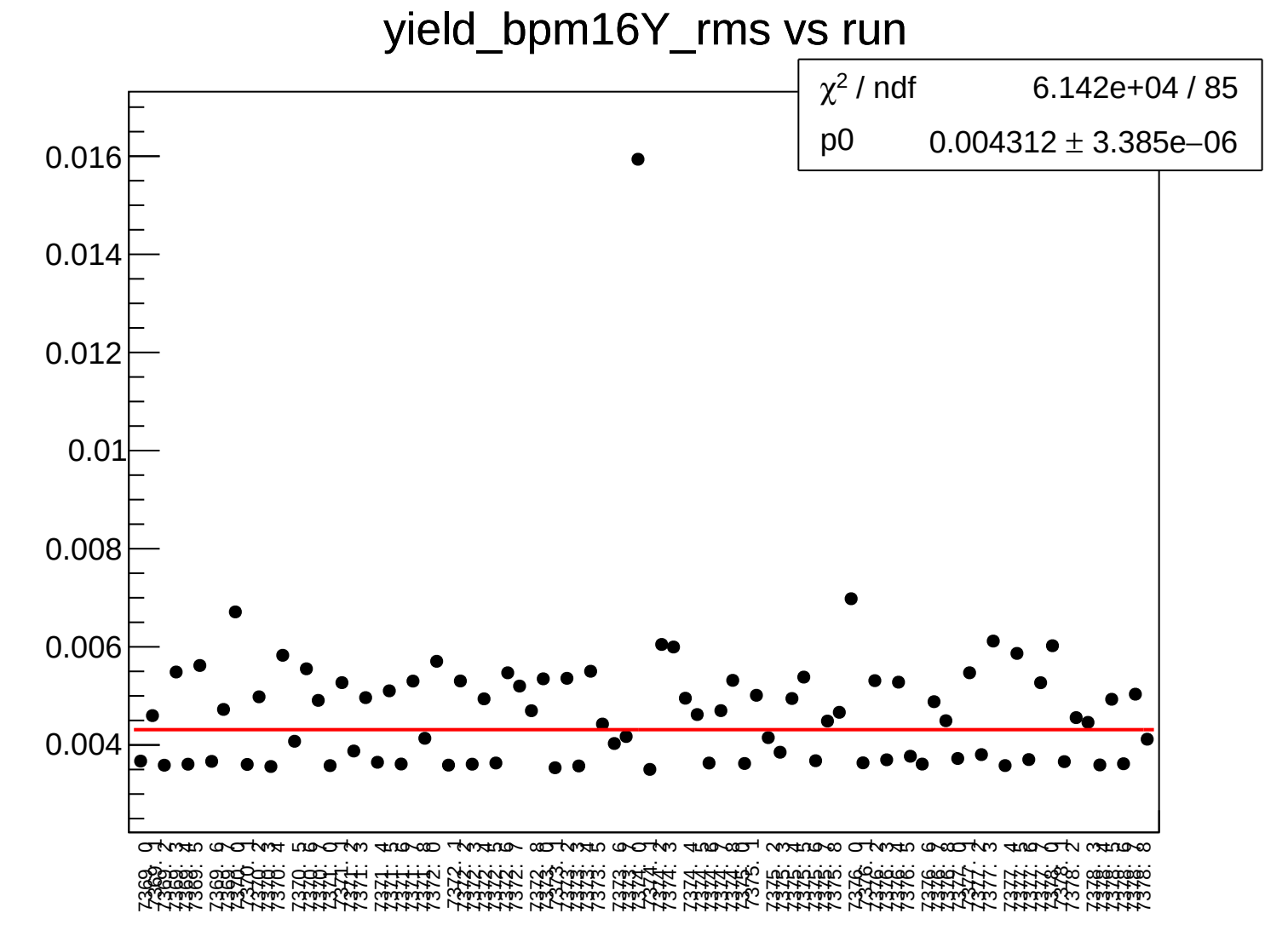

yield_bpm16X_mean vs run
χ² / ndf 2.365e+04 / 85
p0 −0.1963 ± 1.035e−05
−0.18
−0.185
−0.19
−0.195
−0.2
−0.205
−0.21
pull
Entries 86
Mean 18.78
Std Dev 0
60
40
20
0
−20
−40
−60

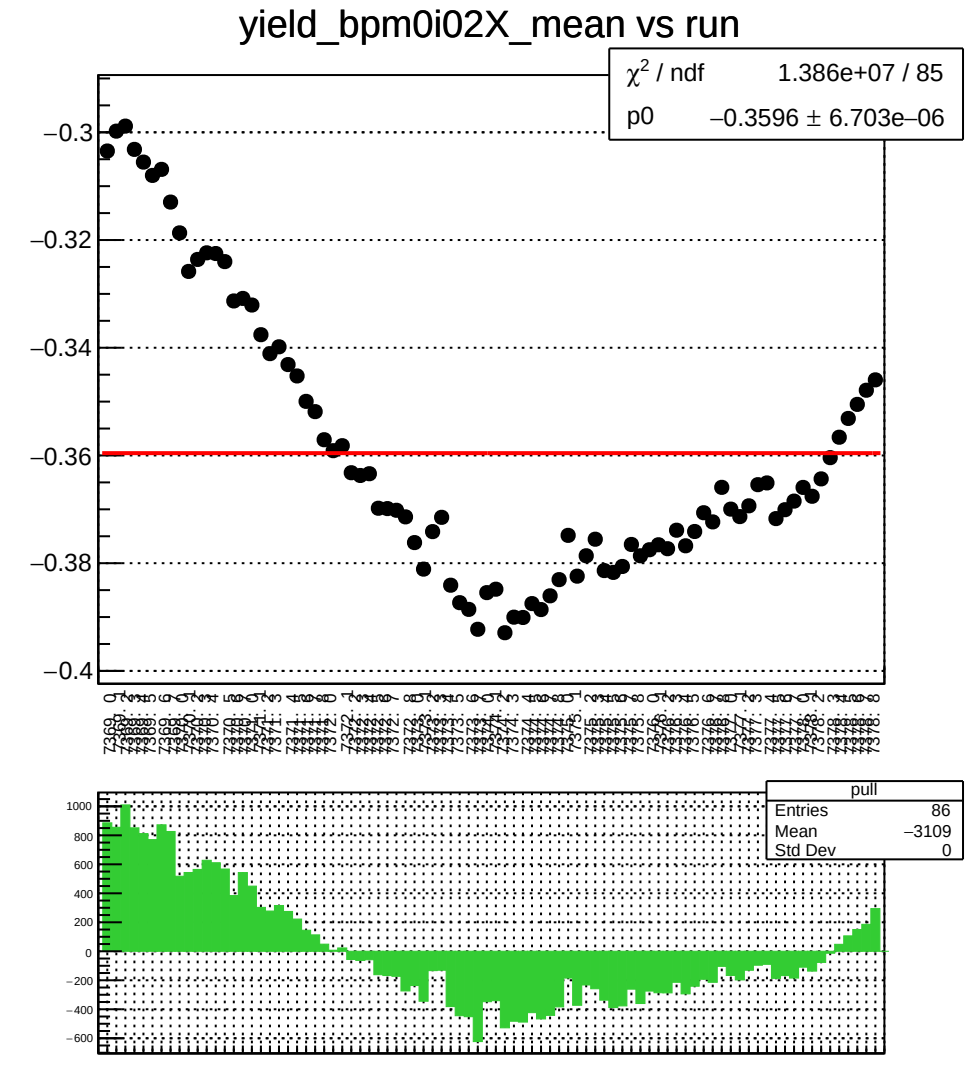

pull1D
Entries 86
Mean −1.086
Std Dev 4.52
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

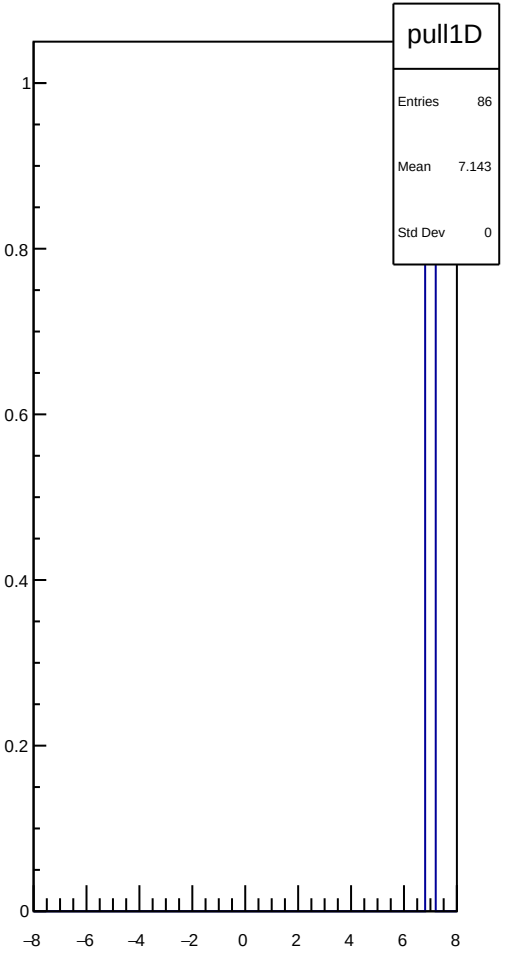

yield_bpm16X_rms vs run
χ² / ndf 1.764e+05 / 85
p0 0.008986 ± 7.318e−06
0.025
0.02
0.015
0.01
0.005

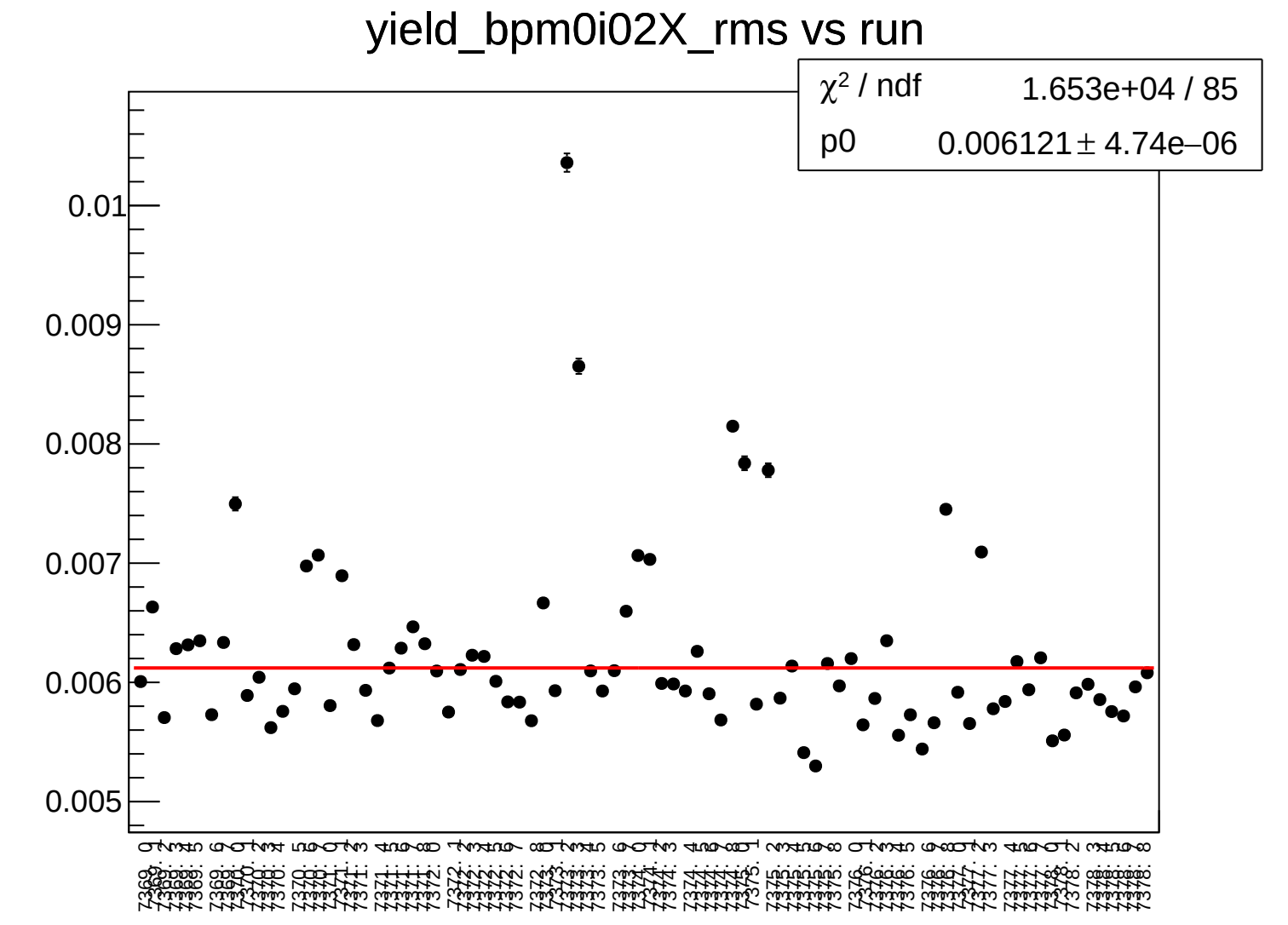

yield_bpm16Y_mean vs run
χ² / ndf 6.721e+04 / 85
p0 −0.2216 ± 4.787e−06
−0.218
−0.22
−0.222
−0.224
−0.226
−0.228
−0.23
−0.232
−0.234
−0.236
pull
Entries 86
Mean −184.8
Std Dev 0
40
20
0
−20
−40
−60
−80

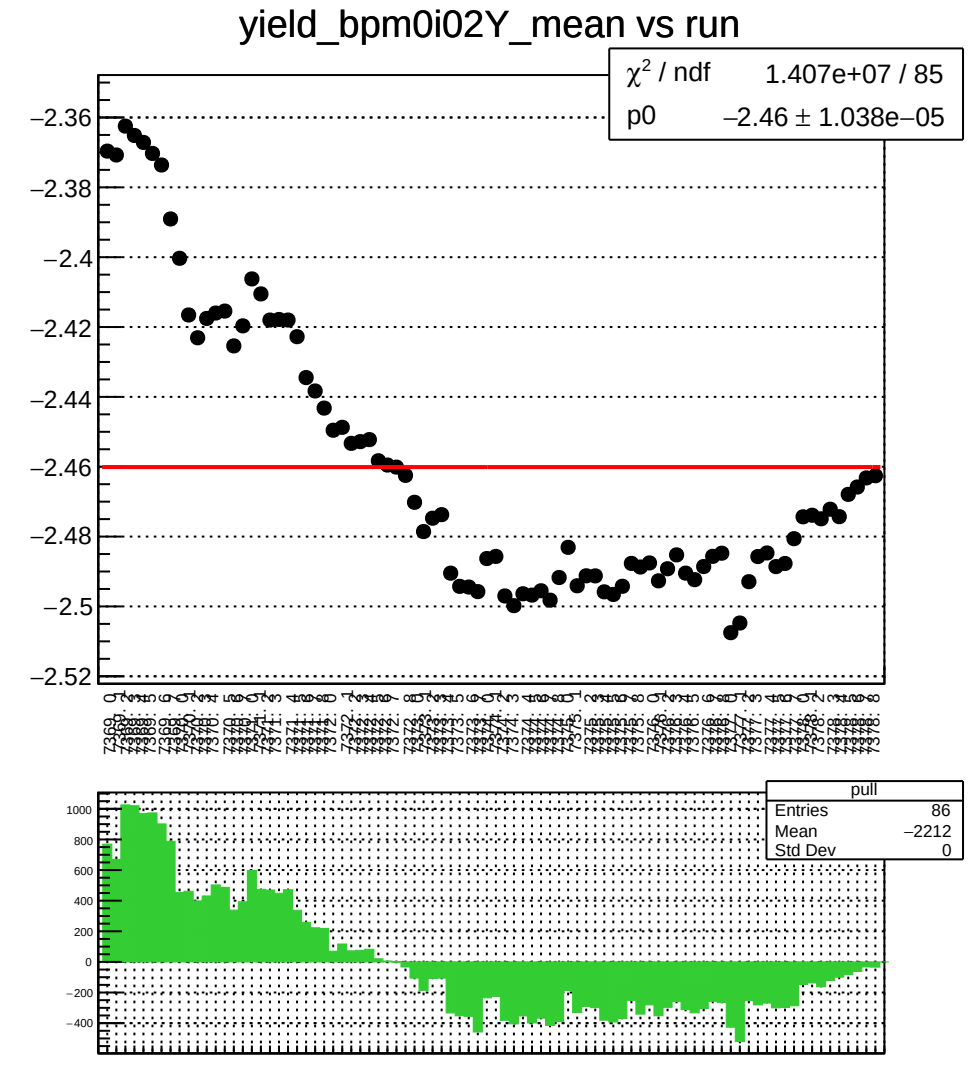

pull1D
Entries 86
Mean 0.4281
Std Dev 4.346
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

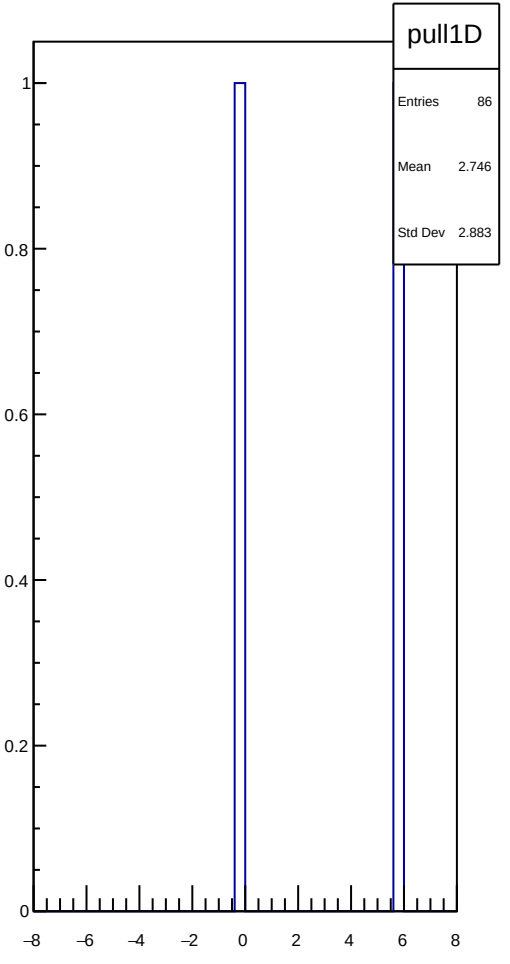

yield_bpm16Y_rms vs run
χ² / ndf 6.142e+04 / 85
p0 0.004312 ± 3.385e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

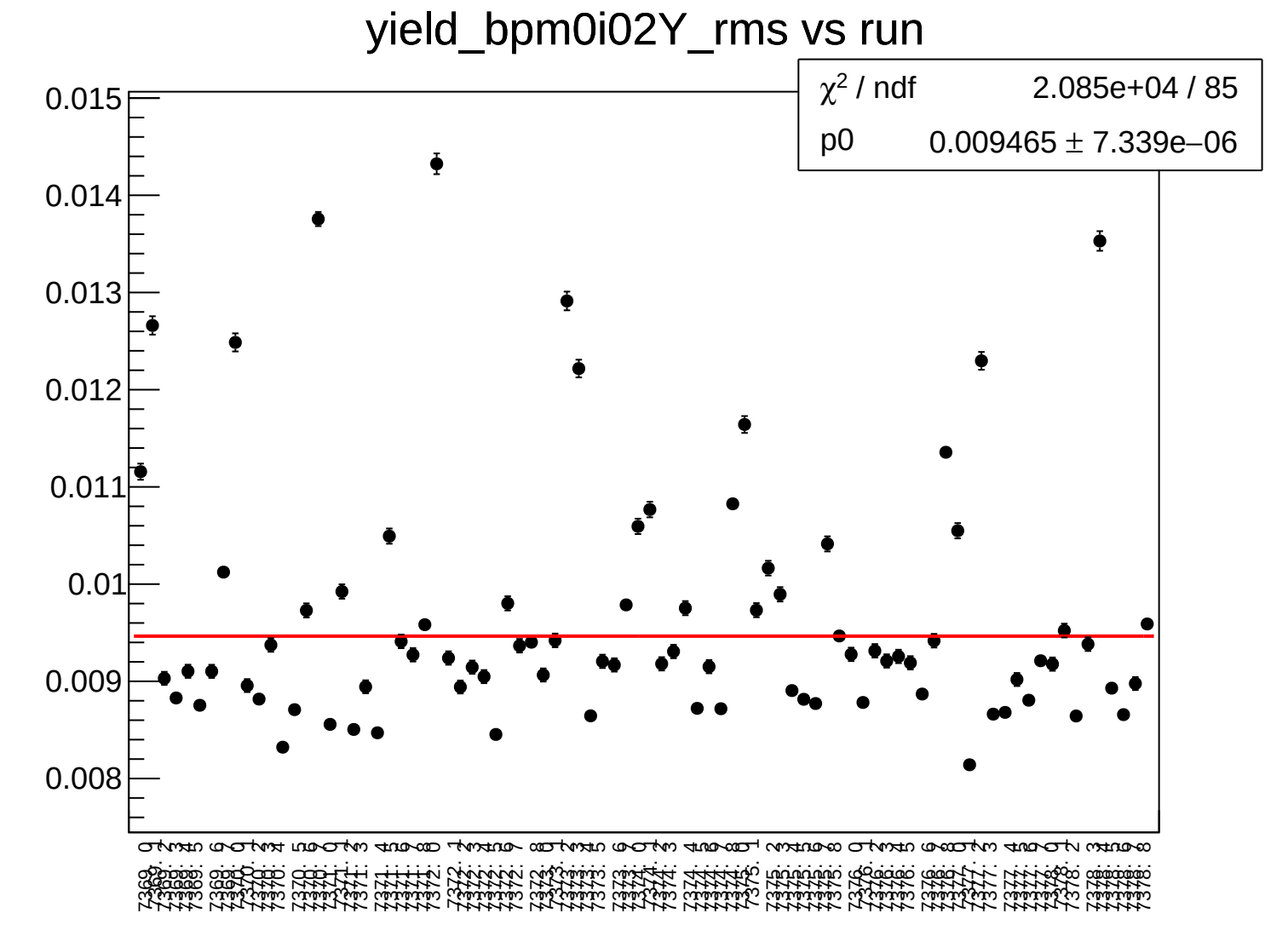

yield_bpm0i02X_mean vs run
χ² / ndf 1.386e+07 / 85
p0 −0.3596 ± 6.703e−06
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
pull
Entries 86
Mean −3109
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

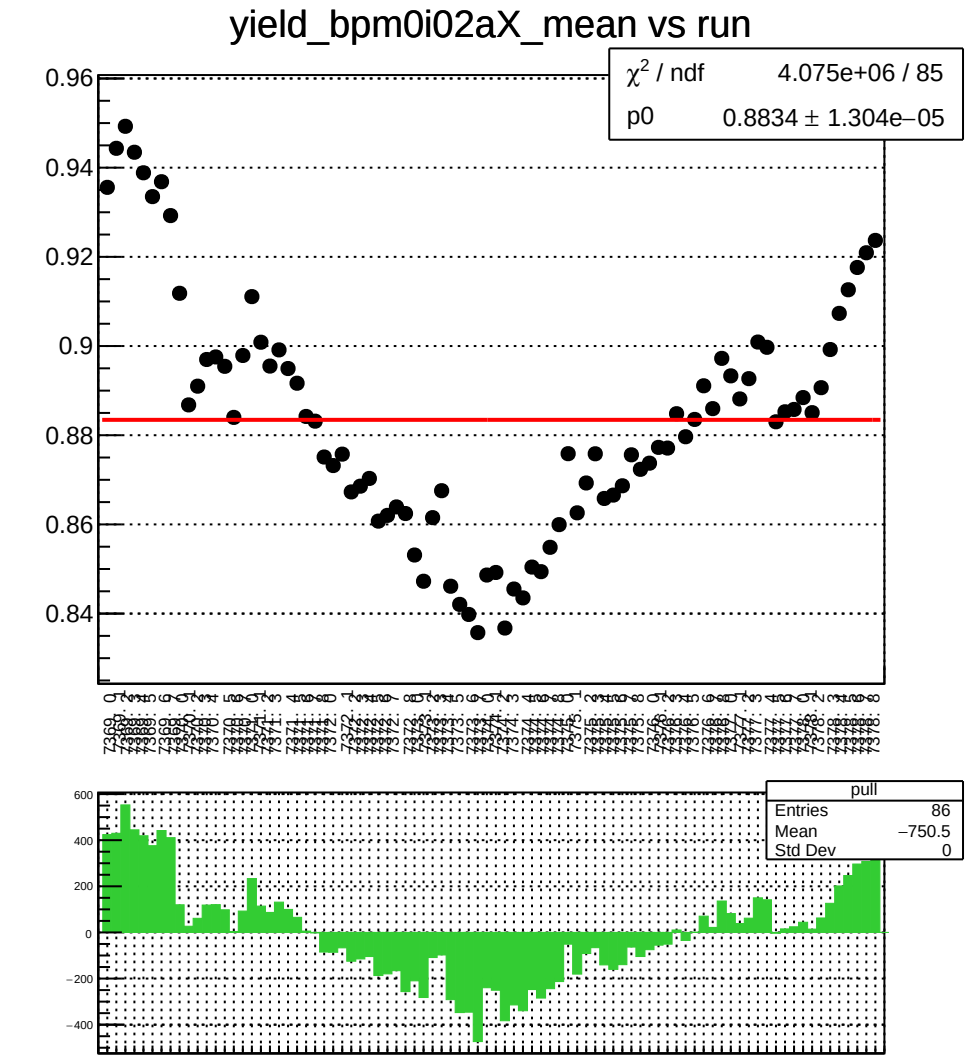

pull1D
Entries 86
Mean 7.143
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

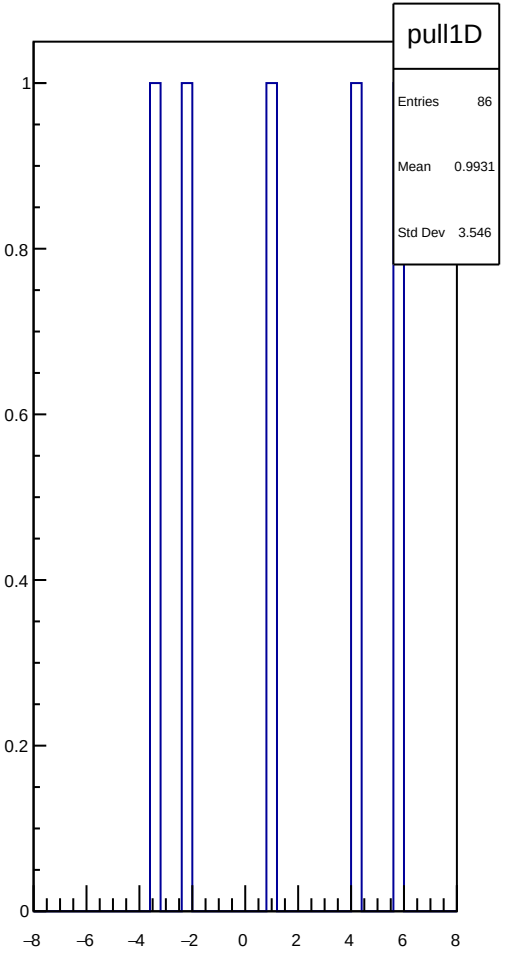

yield_bpm0i02X_rms vs run
χ² / ndf 1.653e+04 / 85
p0 0.006121 ± 4.74e–06
0.01
0.009
0.008
0.007
0.006
0.005

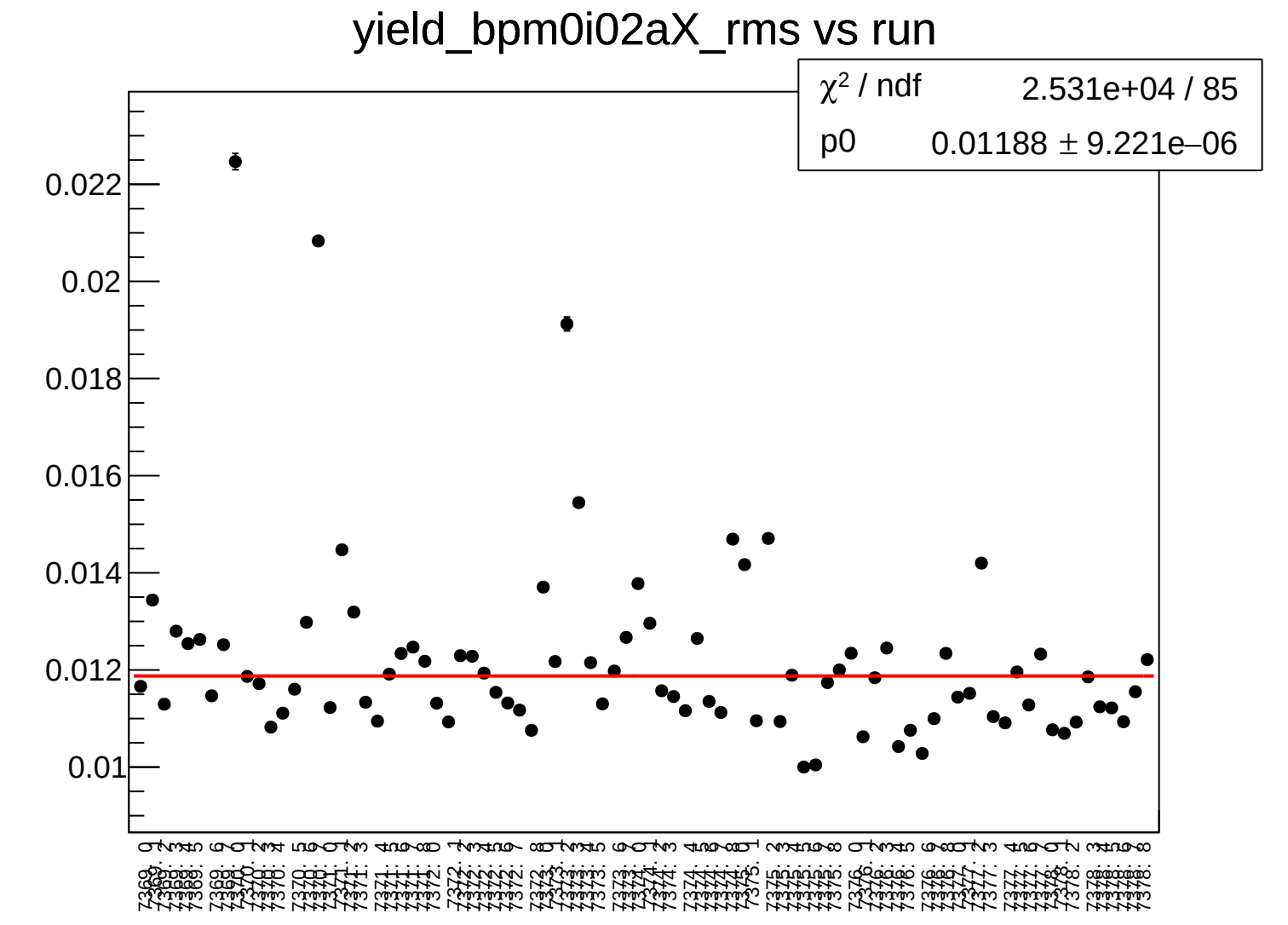

yield_bpm0i02Y_mean vs run
χ² / ndf 1.407e+07 / 85
p0 −2.46 ± 1.038e−05
−2.36
−2.38
−2.4
−2.42
−2.44
−2.46
−2.48
−2.5
−2.52
pull
Entries 86
Mean −2212
Std Dev 0
1000
800
600
400
200
0
−200
−400

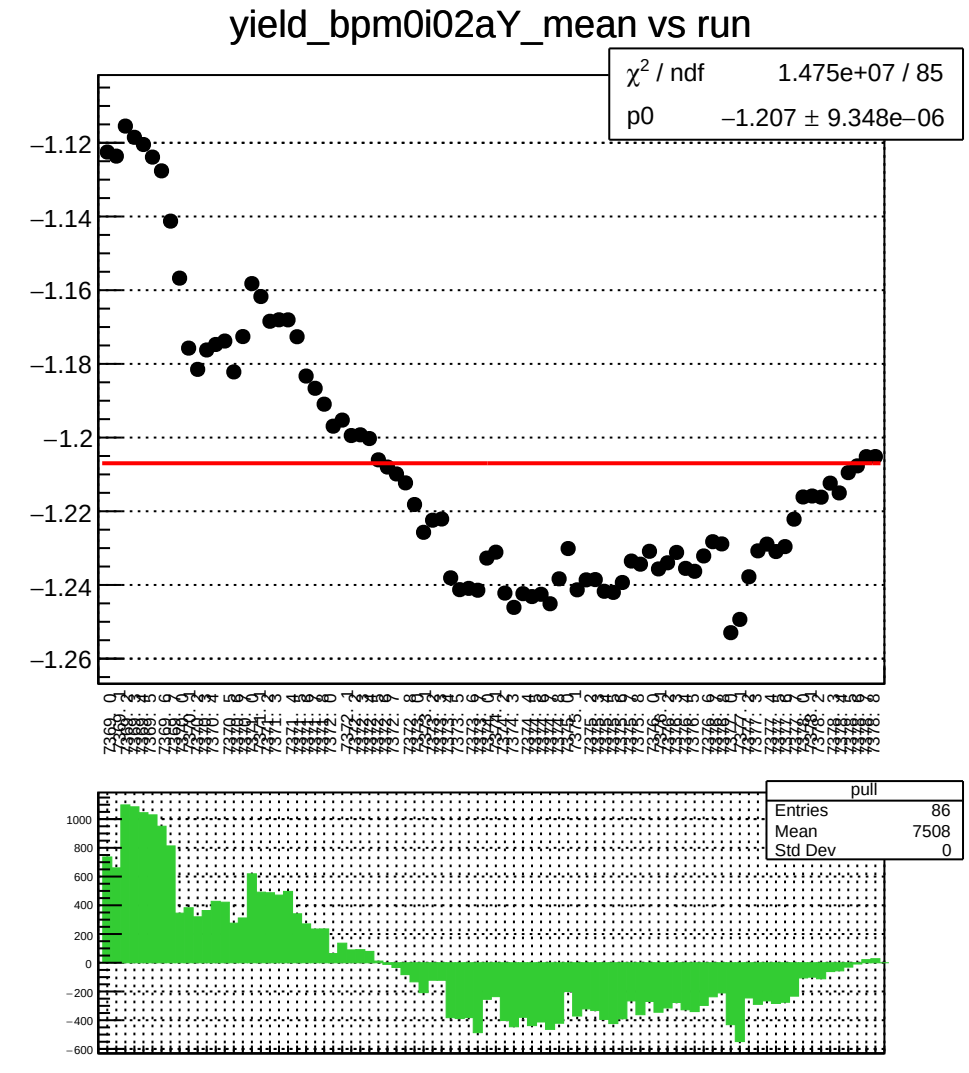

pull1D
Entries 86
Mean 2.746
Std Dev 2.883
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

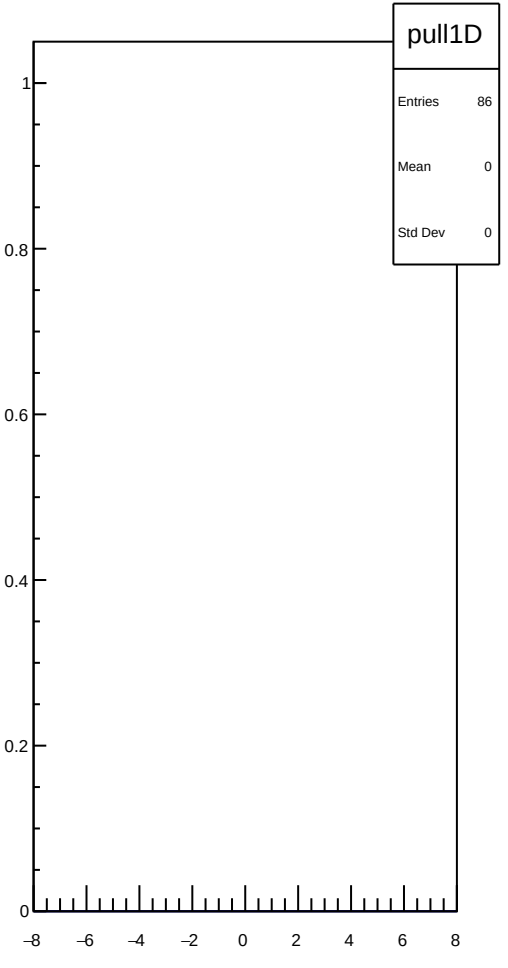

yield_bpm0i02Y_rms vs run
χ² / ndf 2.085e+04 / 85
p0 0.009465 ± 7.339e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

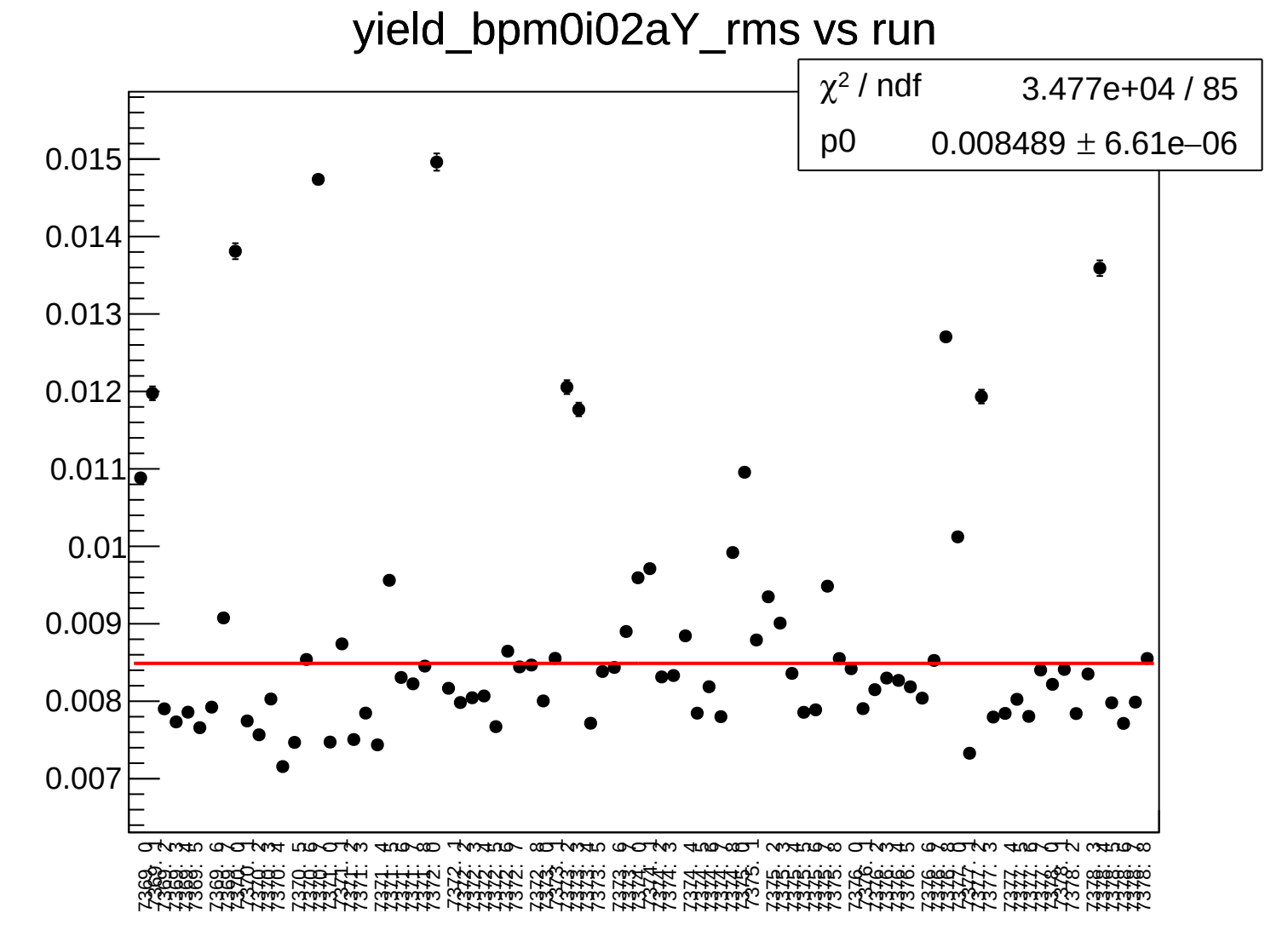

yield_bpm0i02aX_mean vs run
χ² / ndf 4.075e+06 / 85
p0 0.8834 ± 1.304e−05
0.96
0.94
0.92
0.9
0.88
0.86
0.84
pull
Entries 86
Mean −750.5
Std Dev 0
600
400
200
0
−200
−400

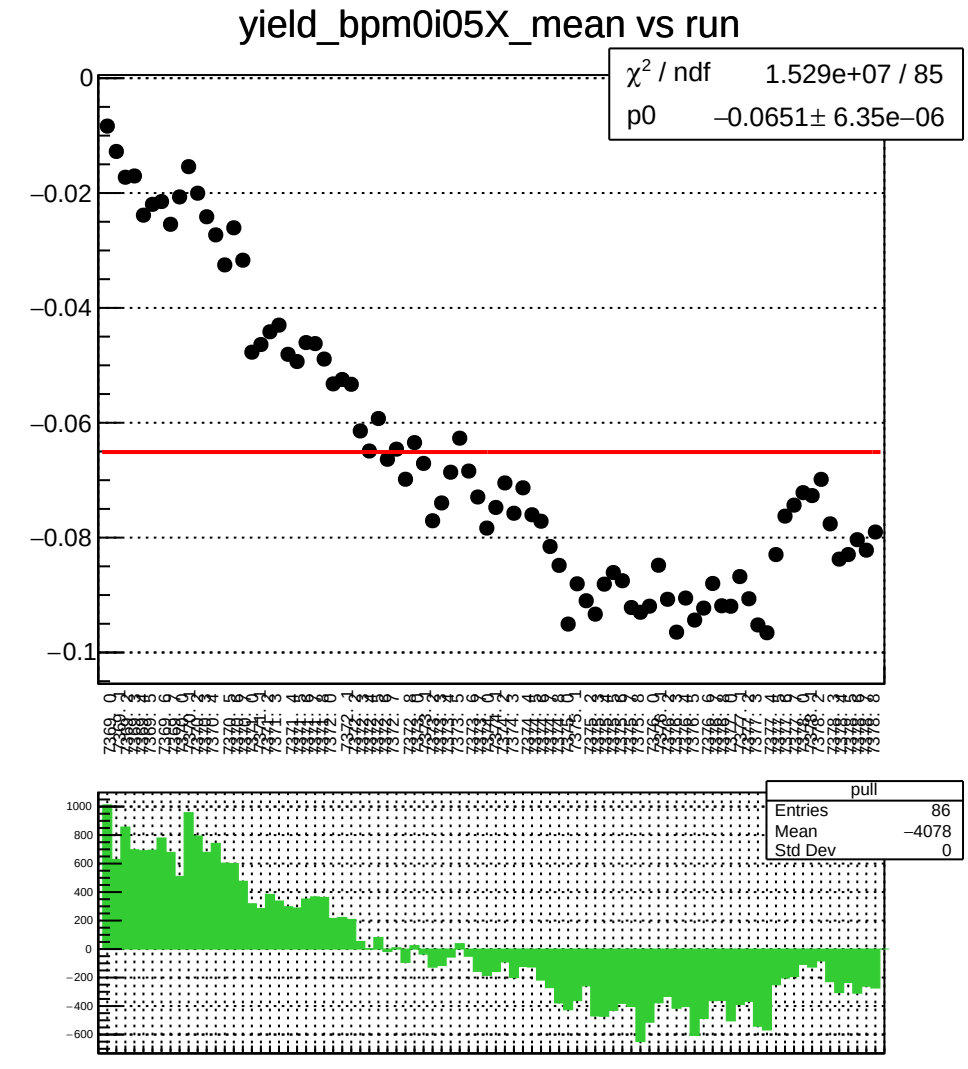

pull1D
Entries 86
Mean 0.9931
Std Dev 3.546
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

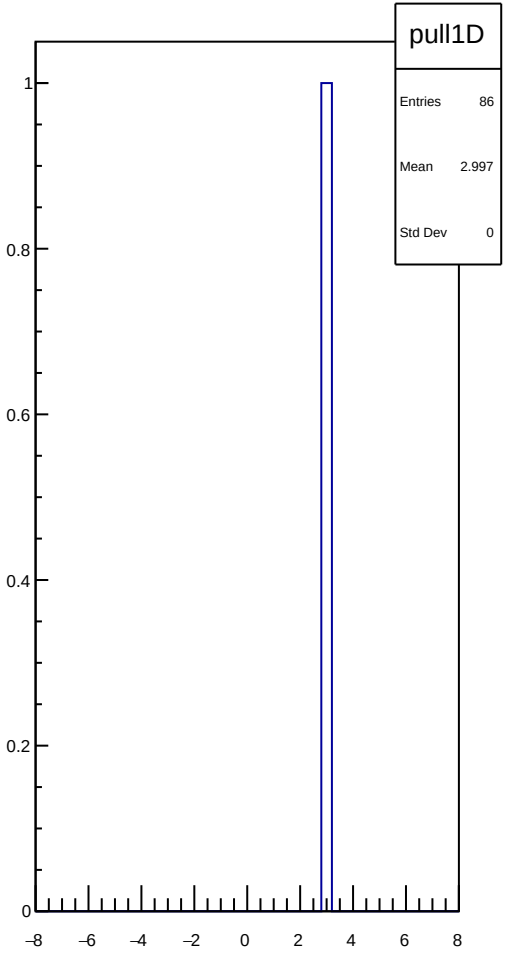

yield_bpm0i02aX_rms vs run
χ² / ndf 2.531e+04 / 85
p0 0.01188 ± 9.221e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

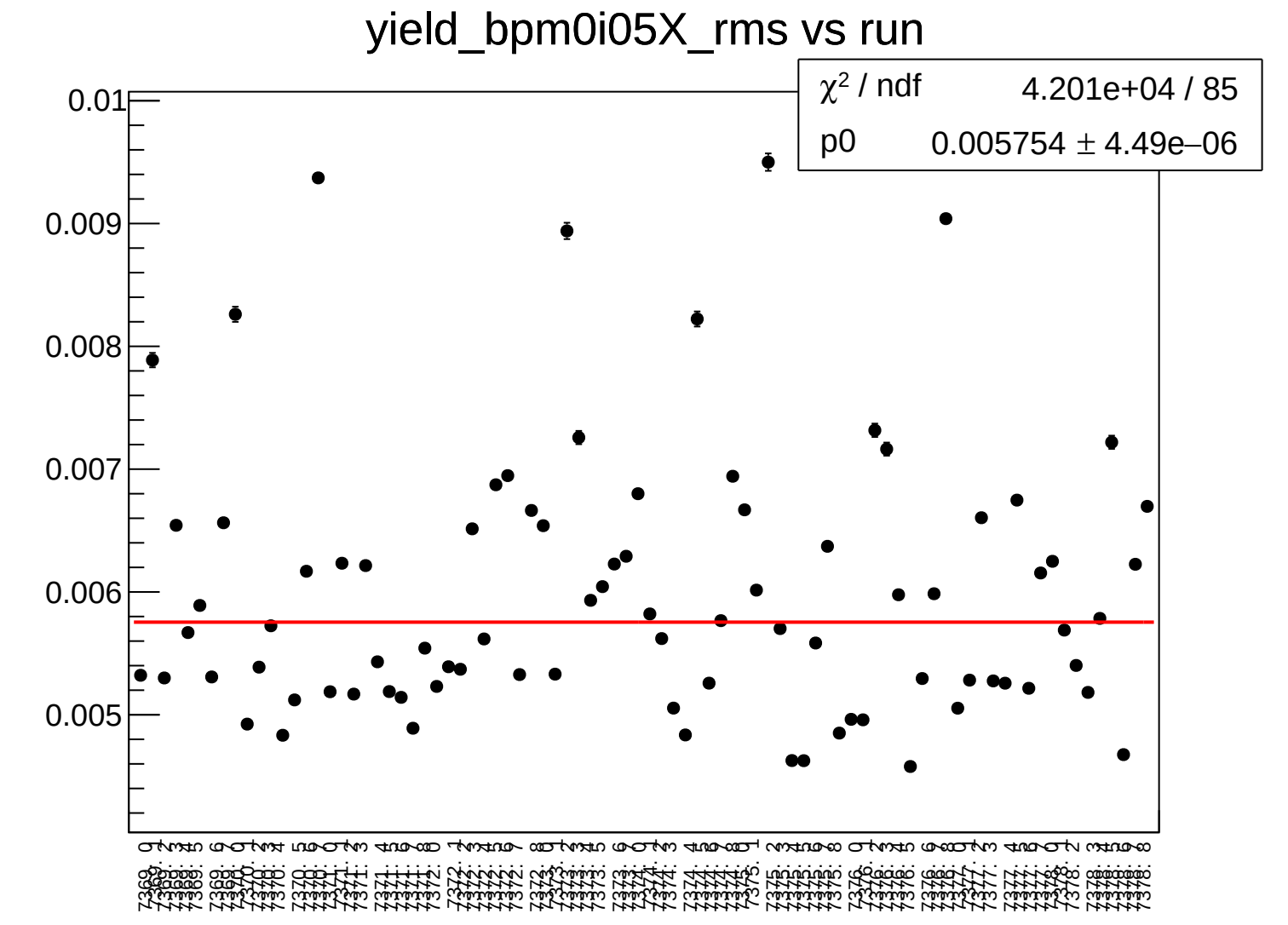

yield_bpm0i02aY_mean vs run
χ² / ndf 1.475e+07 / 85
p0 −1.207 ± 9.348e−06
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
pull
Entries 86
Mean 7508
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

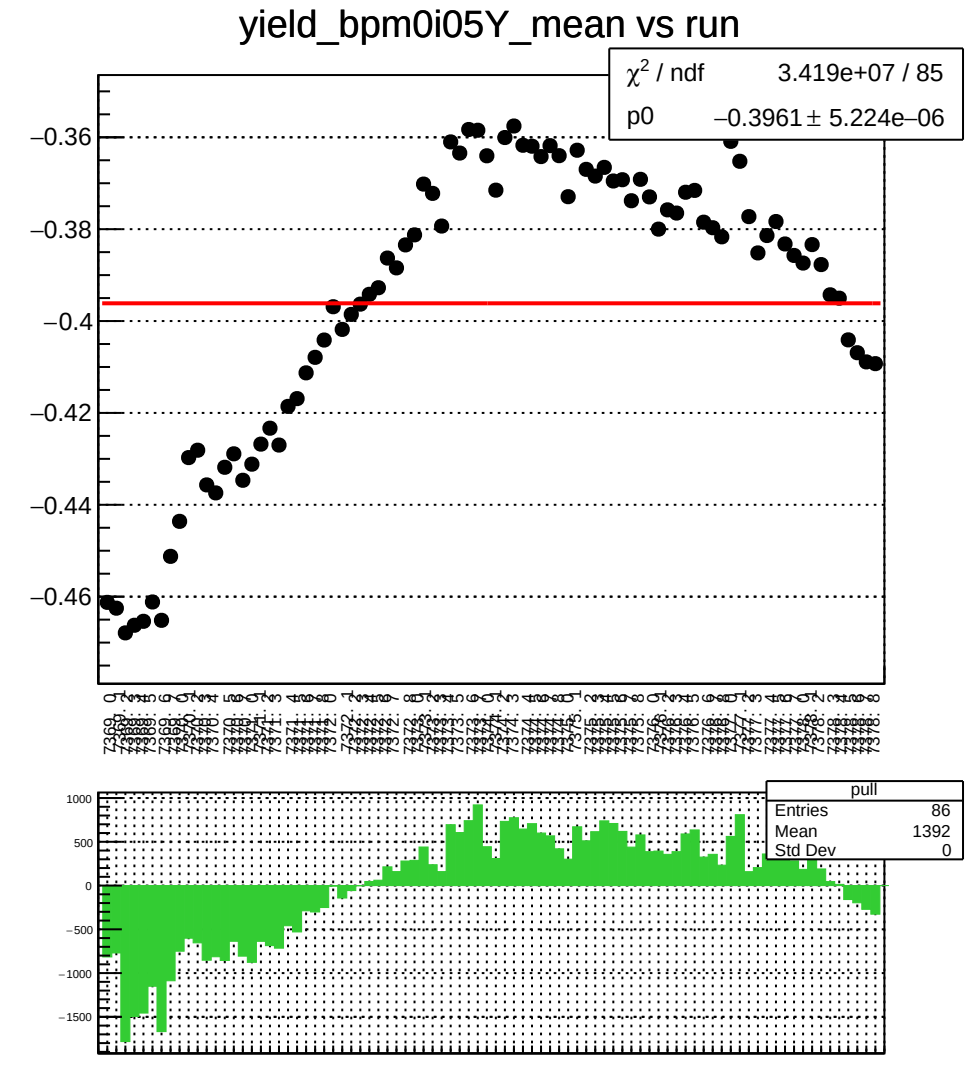

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

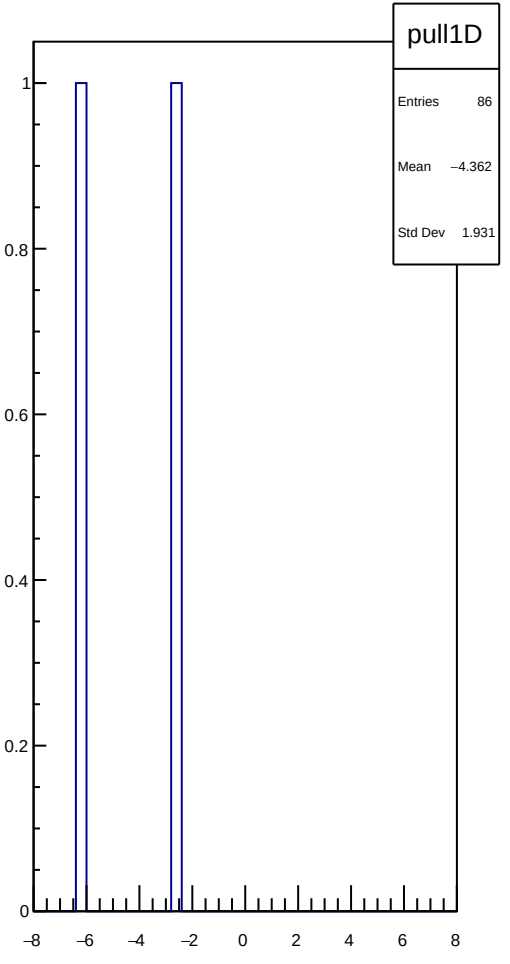

yield_bpm0i02aY_rms vs run
χ² / ndf 3.477e+04 / 85
p0 0.008489 ± 6.61e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

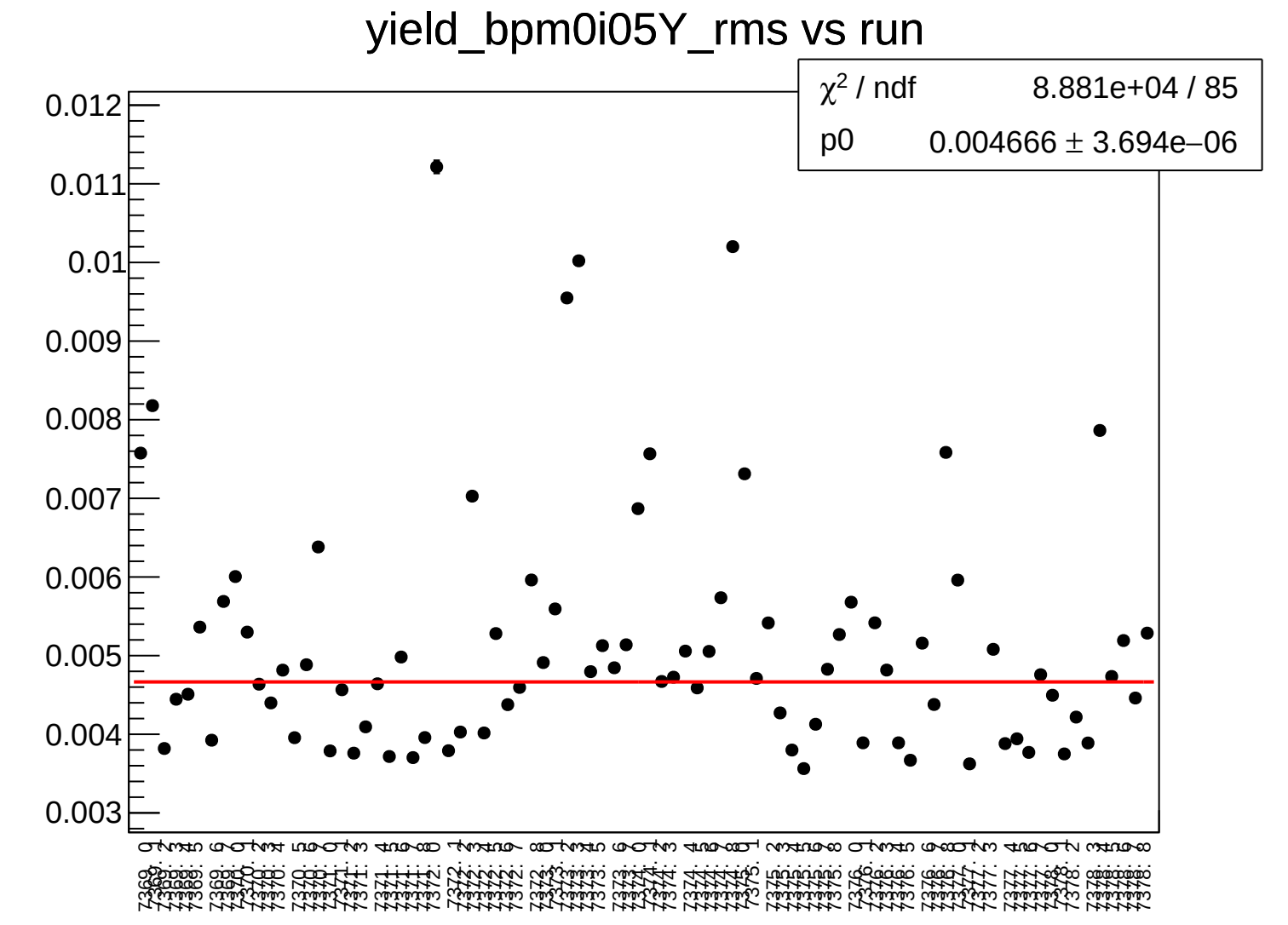

yield_bpm0i05X_mean vs run
χ² / ndf 1.529e+07 / 85
p0 −0.0651± 6.35e−06
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 86
Mean −4078
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

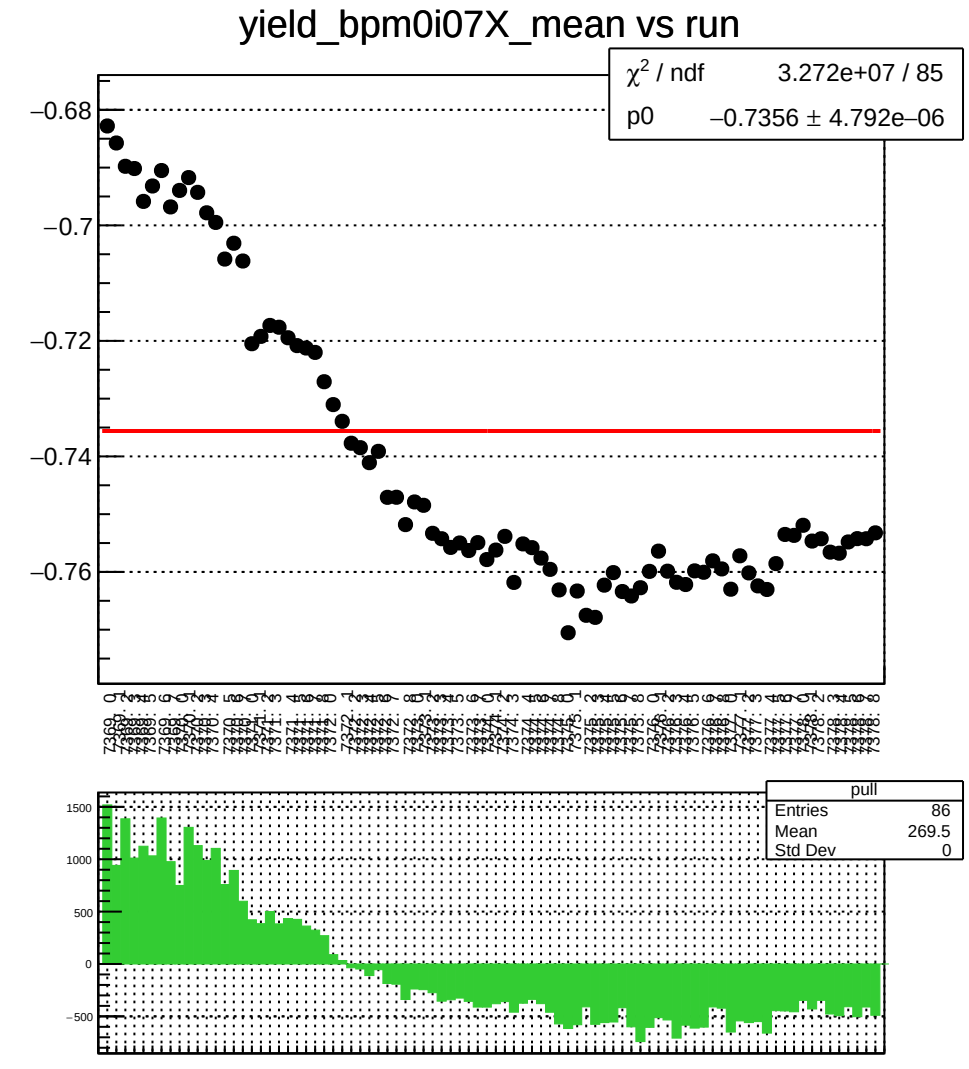

pull1D
Entries 86
Mean 2.997
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

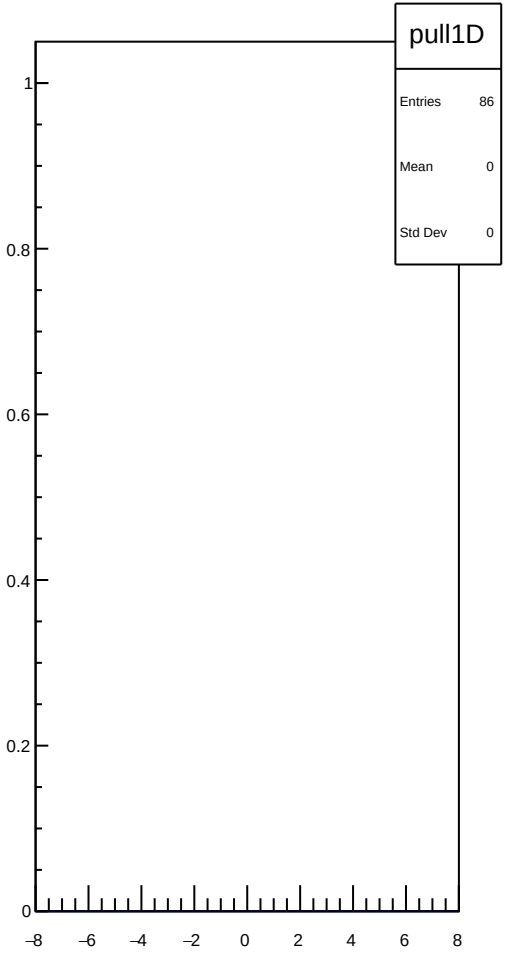

yield_bpm0i05X_rms vs run
χ² / ndf 4.201e+04 / 85
p0 0.005754 ± 4.49e–06
0.01
0.009
0.008
0.007
0.006
0.005

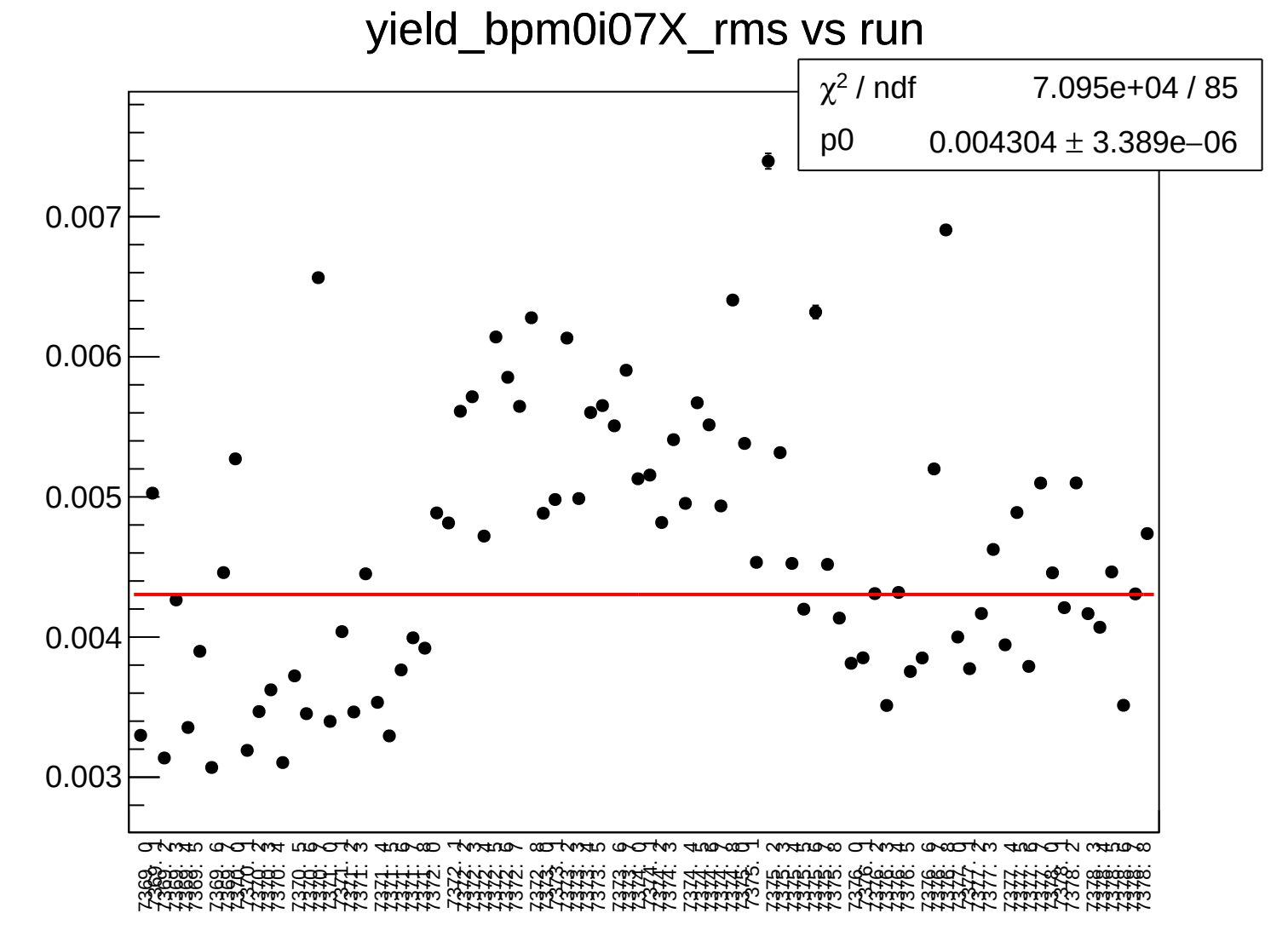

yield_bpm0i05Y_mean vs run
χ² / ndf 3.419e+07 / 85
p0 −0.3961 ± 5.224e−06
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
pull
Entries 86
Mean 1392
Std Dev 0
1000
500
0
−500
−1000
−1500

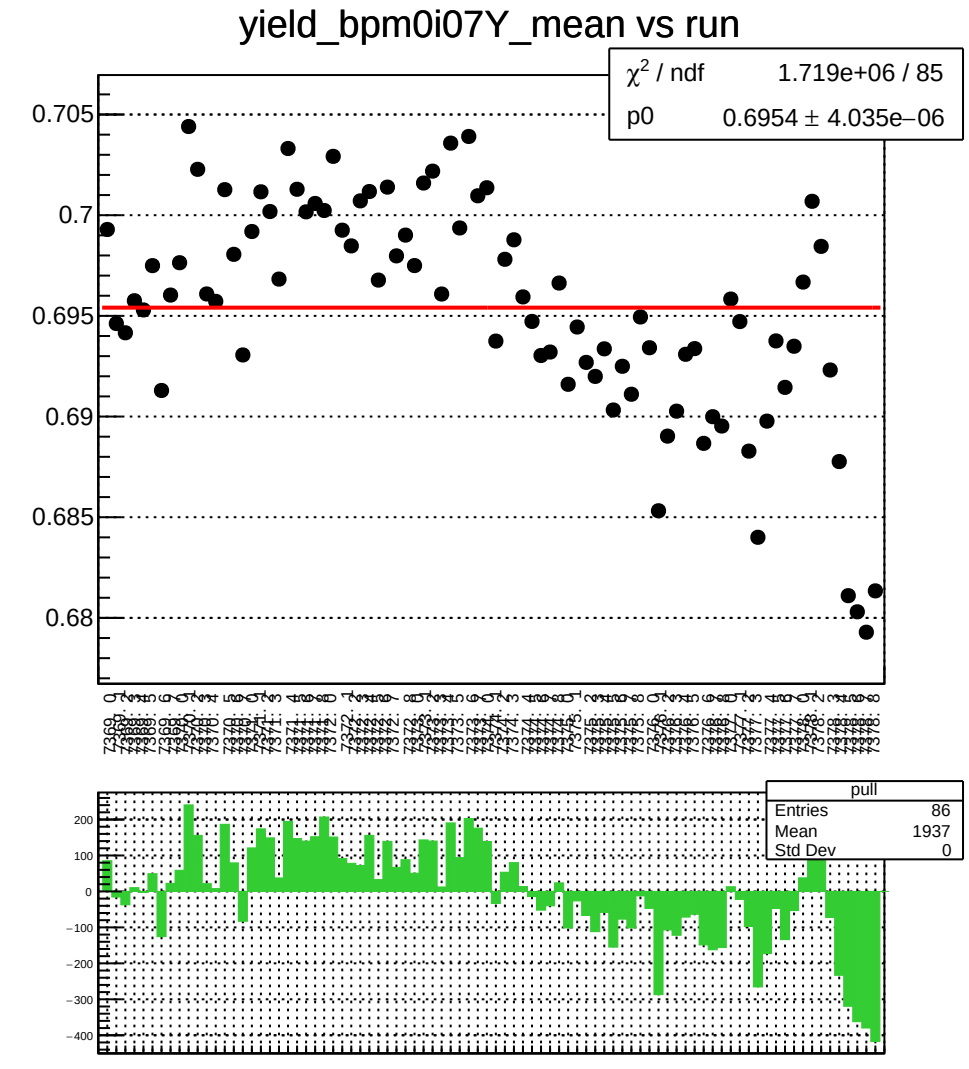

pull1D
Entries 86
Mean −4.362
Std Dev 1.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

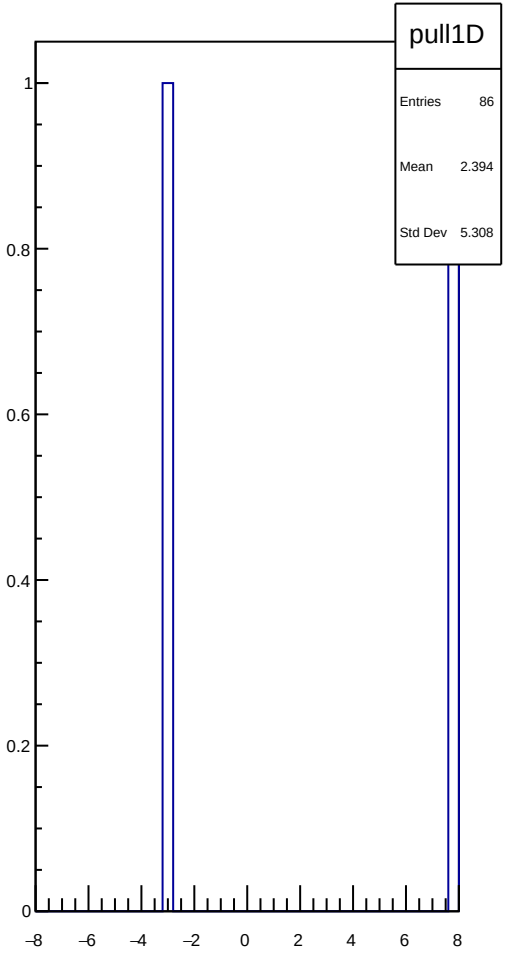

yield_bpm0i05Y_rms vs run
χ² / ndf 8.881e+04 / 85
p0 0.004666 ± 3.694e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

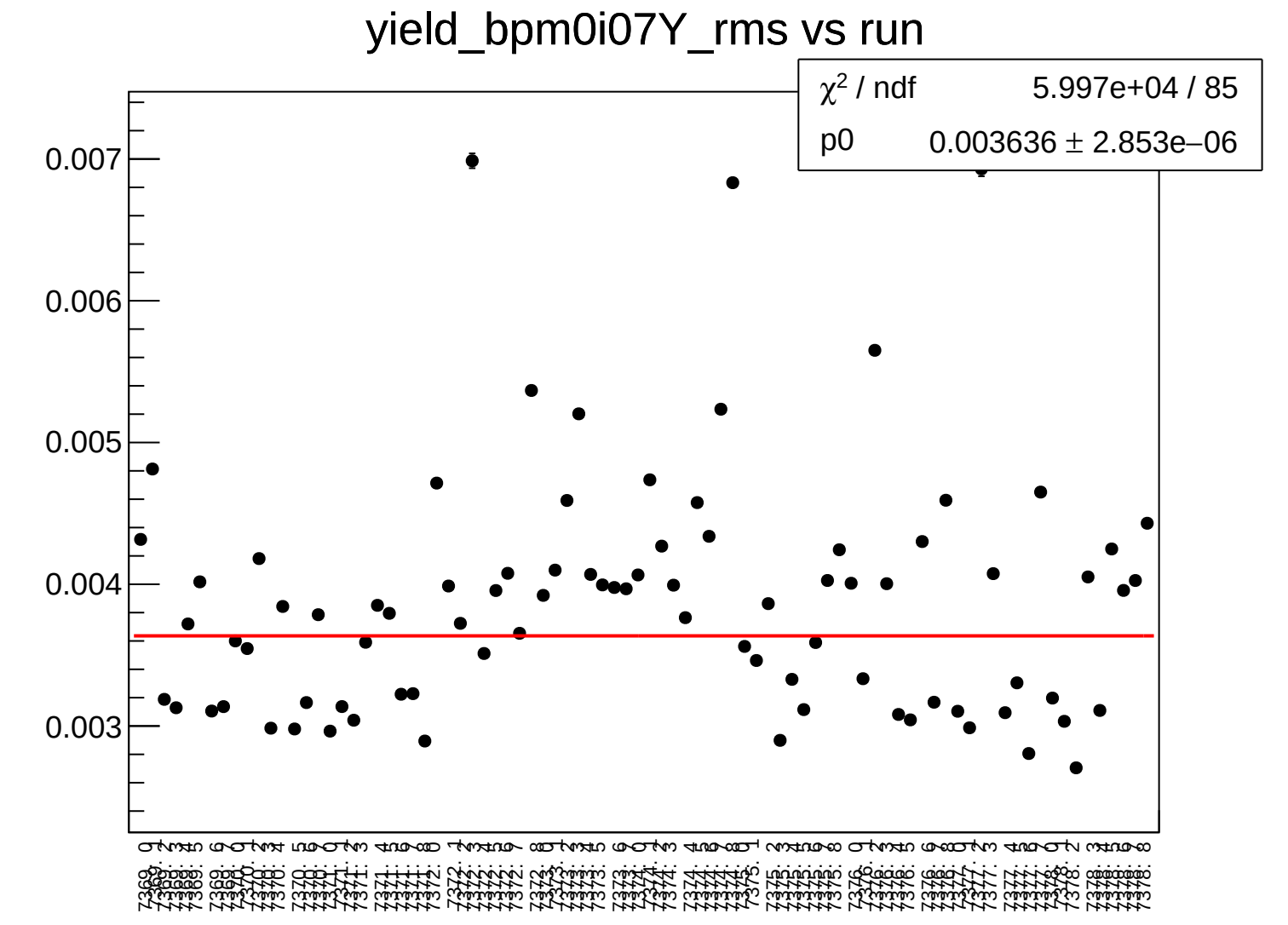

yield_bpm0i07X_mean vs run
χ² / ndf 3.272e+07 / 85
p0 −0.7356 ± 4.792e−06
−0.68
−0.7
−0.72
−0.74
−0.76
pull
Entries 86
Mean 269.5
Std Dev 0
1500
1000
500
0
−500

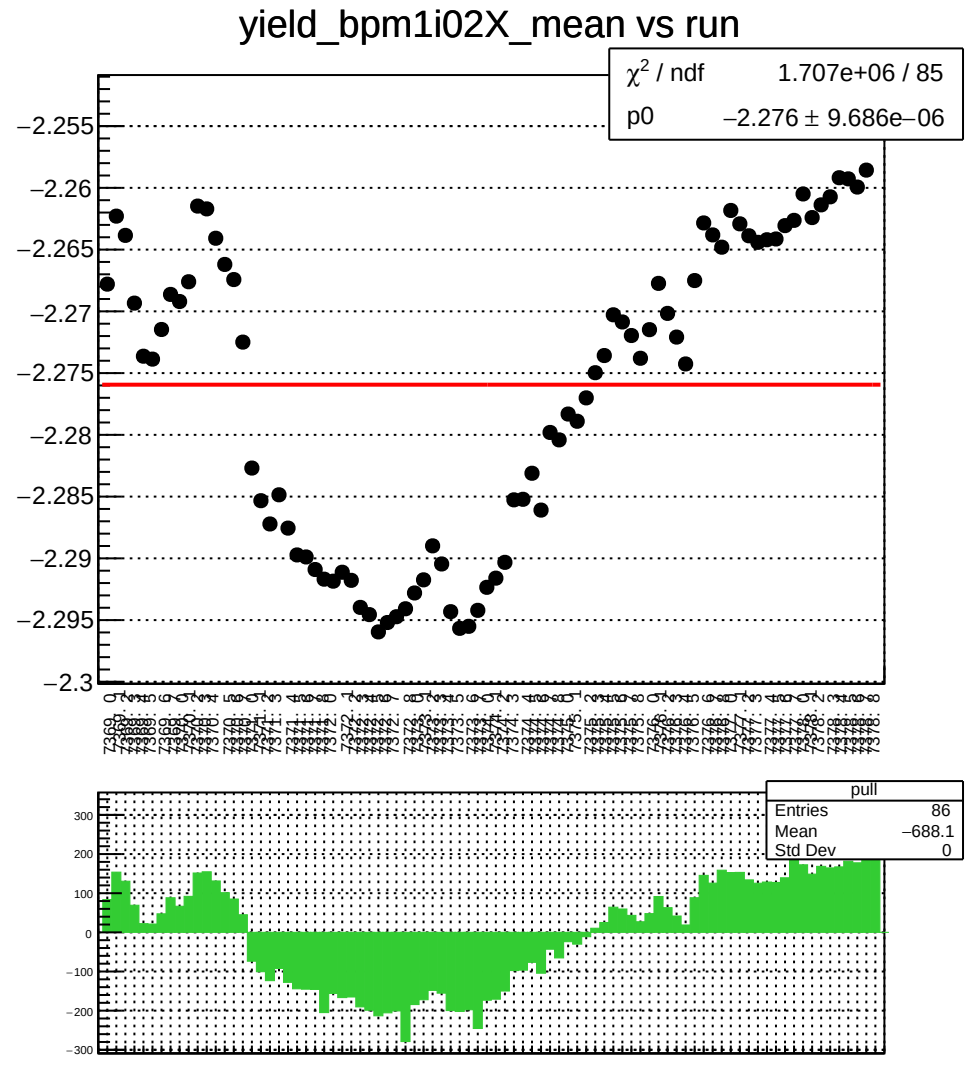

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

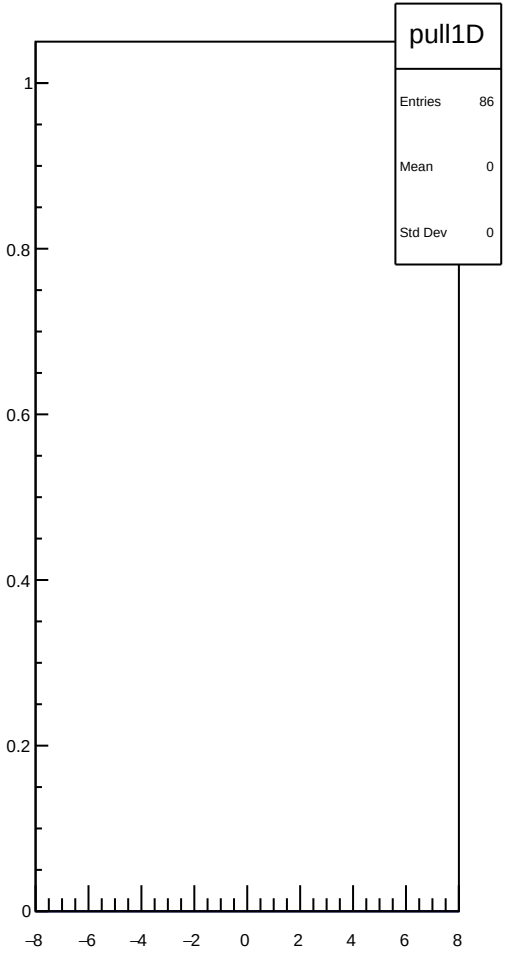

yield_bpm0i07X_rms vs run
χ² / ndf 7.095e+04 / 85
p0 0.004304 ± 3.389e−06
0.007
0.006
0.005
0.004
0.003

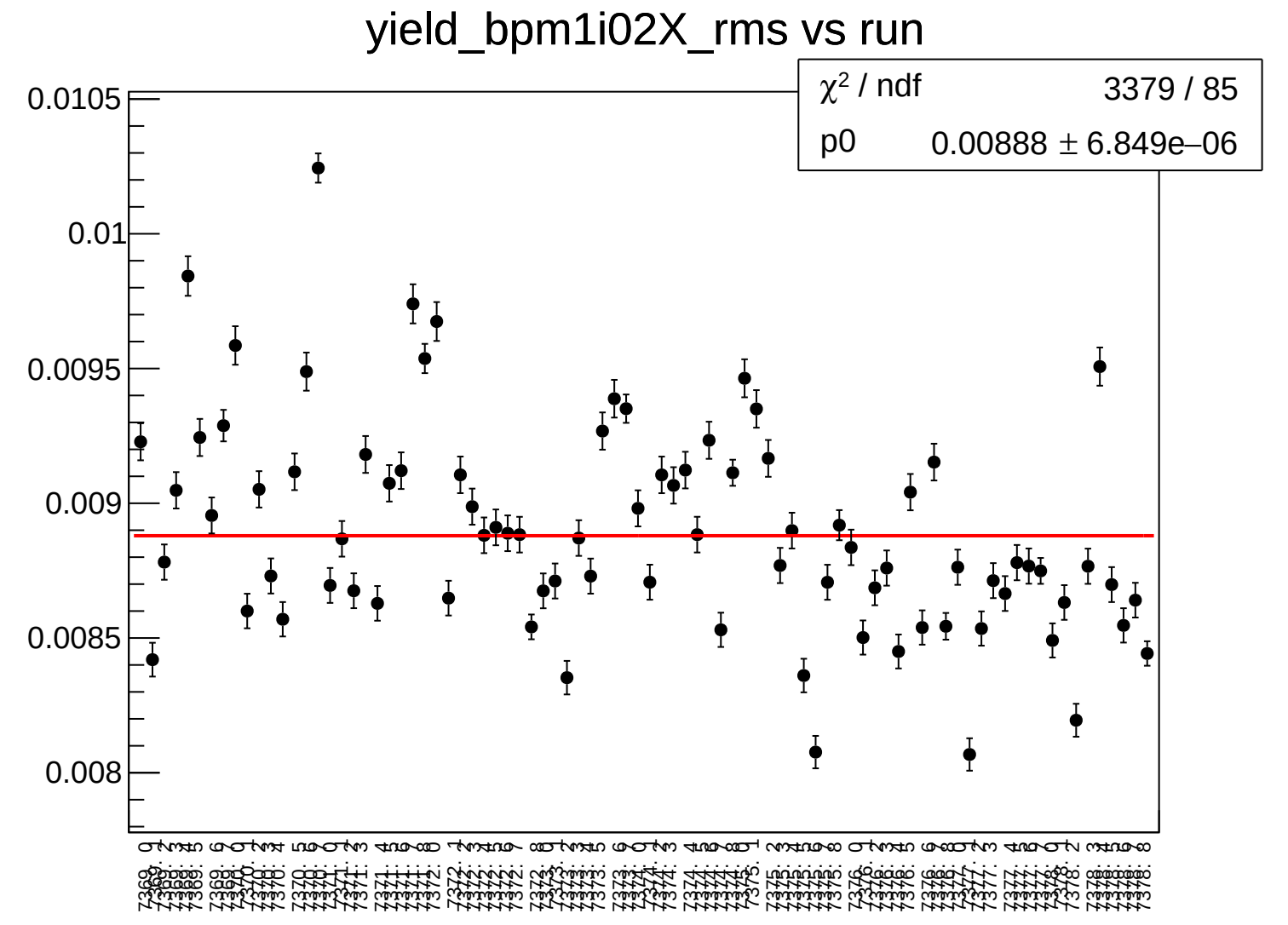

yield_bpm0i07Y_mean vs run
χ² / ndf 1.719e+06 / 85
p0 0.6954 ± 4.035e−06
0.705
0.7
0.695
0.69
0.685
0.68
pull
Entries 86
Mean 1937
Std Dev 0
200
100
0
−100
−200
−300
−400

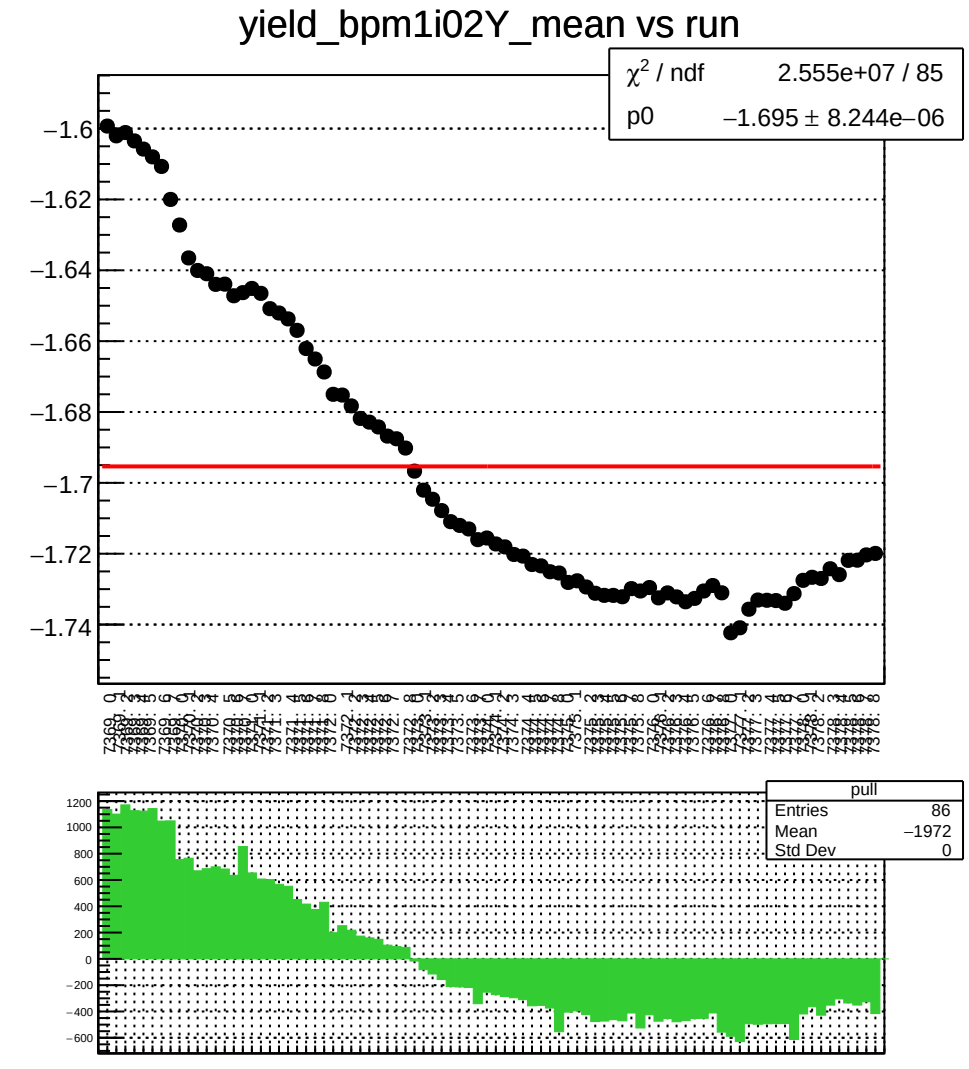

pull1D
Entries 86
Mean 2.394
Std Dev 5.308
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

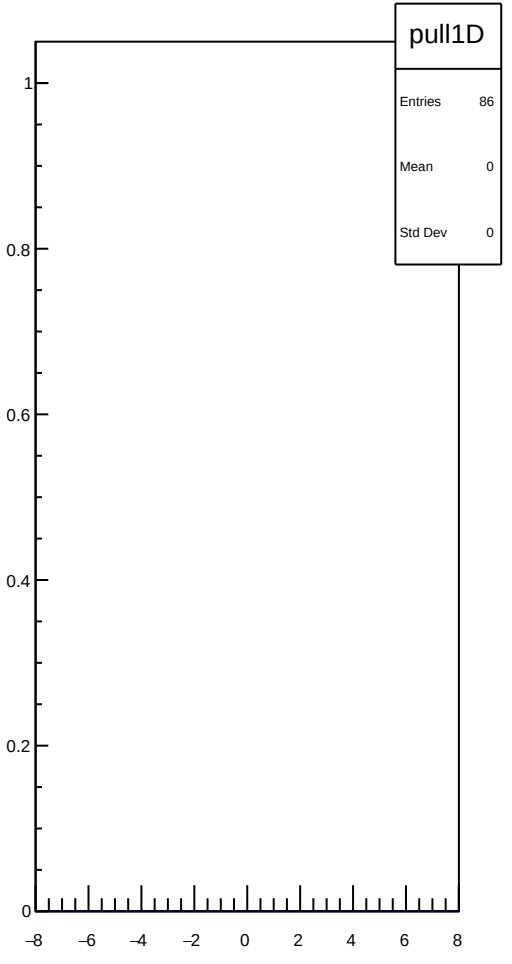

yield_bpm0i07Y_rms vs run
χ² / ndf 5.997e+04 / 85
p0 0.003636 ± 2.853e−06
0.007
0.006
0.005
0.004
0.003

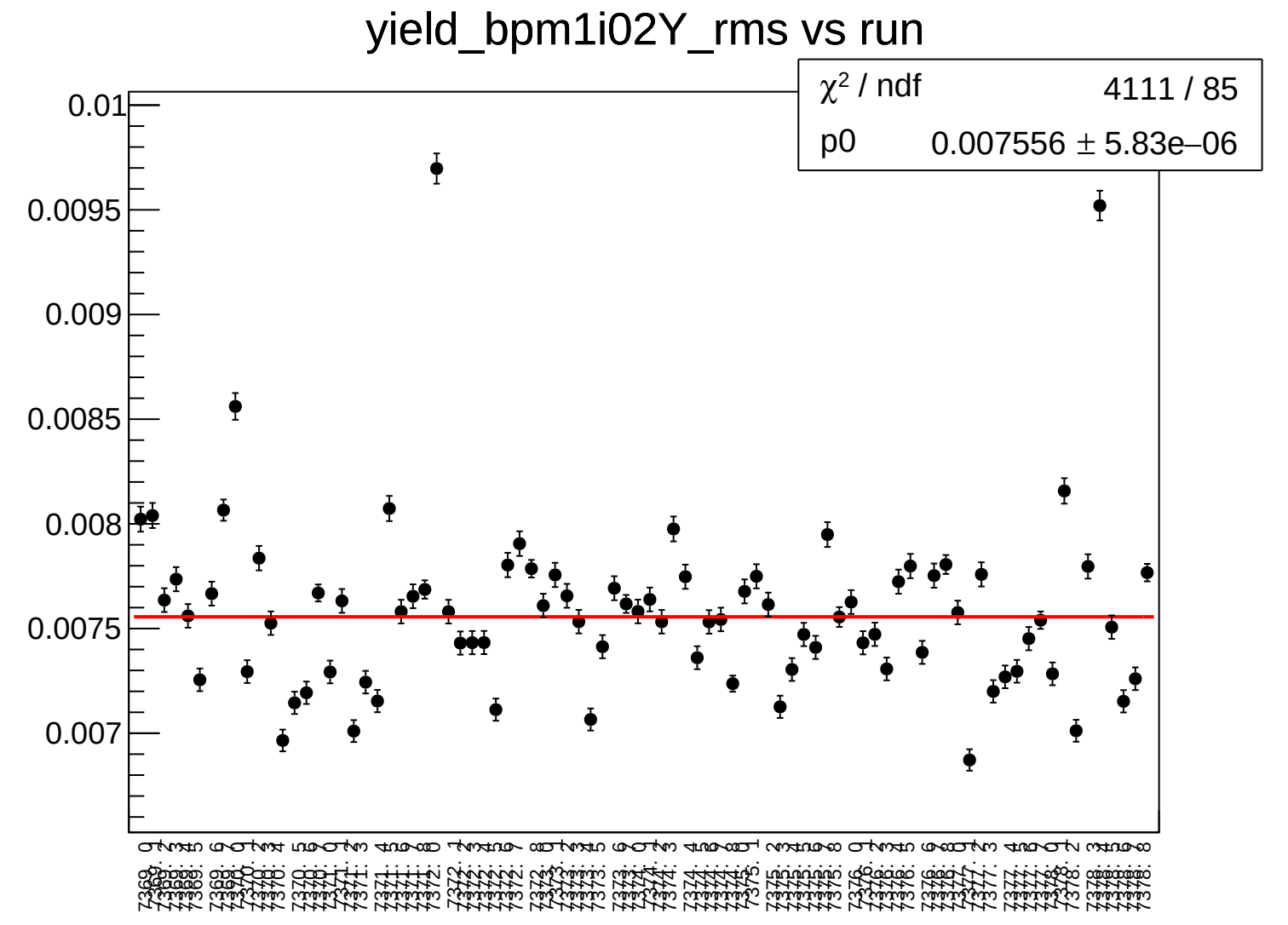

yield_bpm1i02X_mean vs run
χ² / ndf 1.707e+06 / 85
p0 −2.276 ± 9.686e−06
−2.255
−2.26
−2.265
−2.27
−2.275
−2.28
−2.285
−2.29
−2.295
−2.3
pull
Entries 86
Mean −688.1
Std Dev 0
300
200
100
0
−100
−200
−300

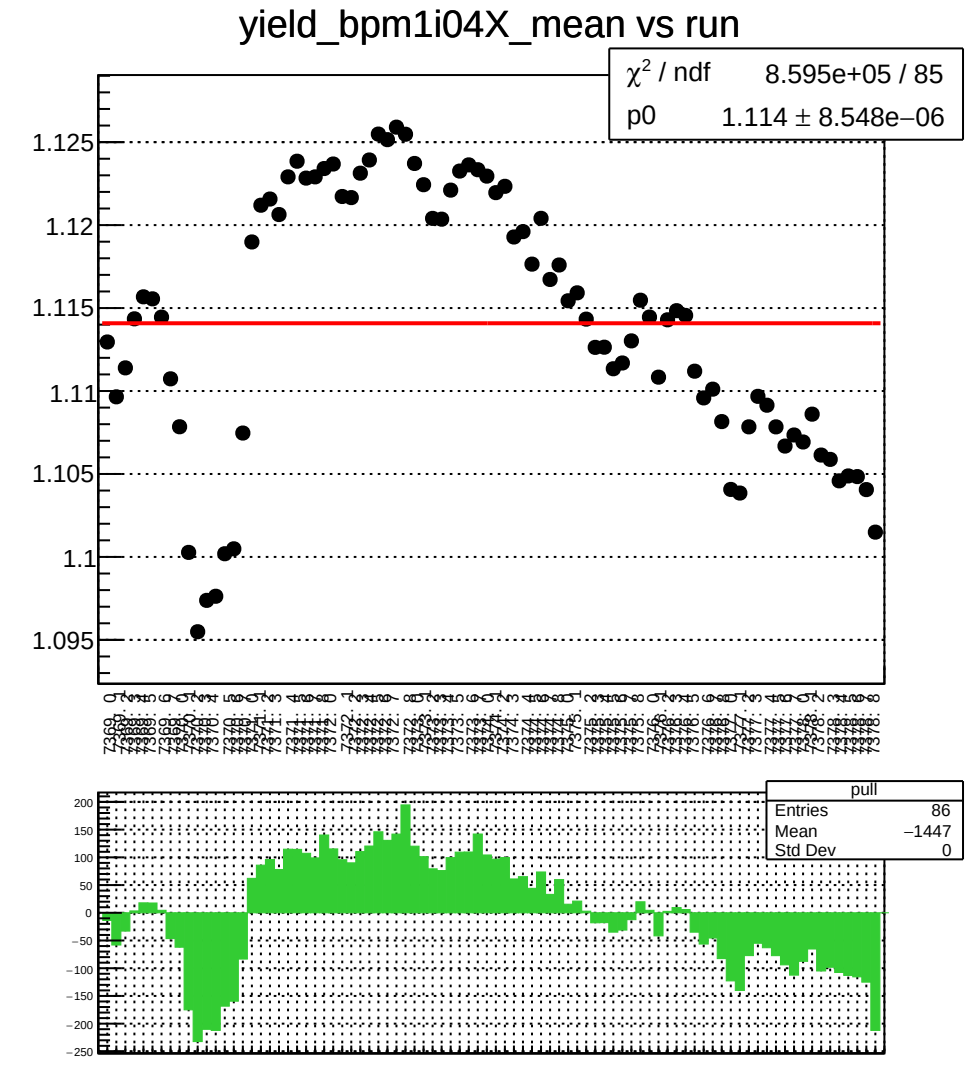

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

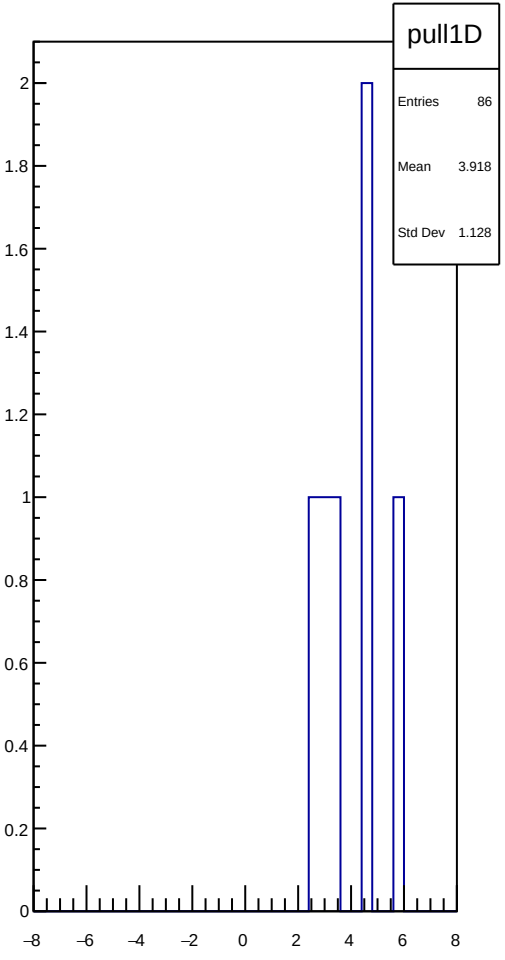

yield_bpm1i02X_rms vs run
χ² / ndf 3379 / 85
p0 0.00888 ± 6.849e–06
0.0105
0.01
0.0095
0.009
0.0085
0.008

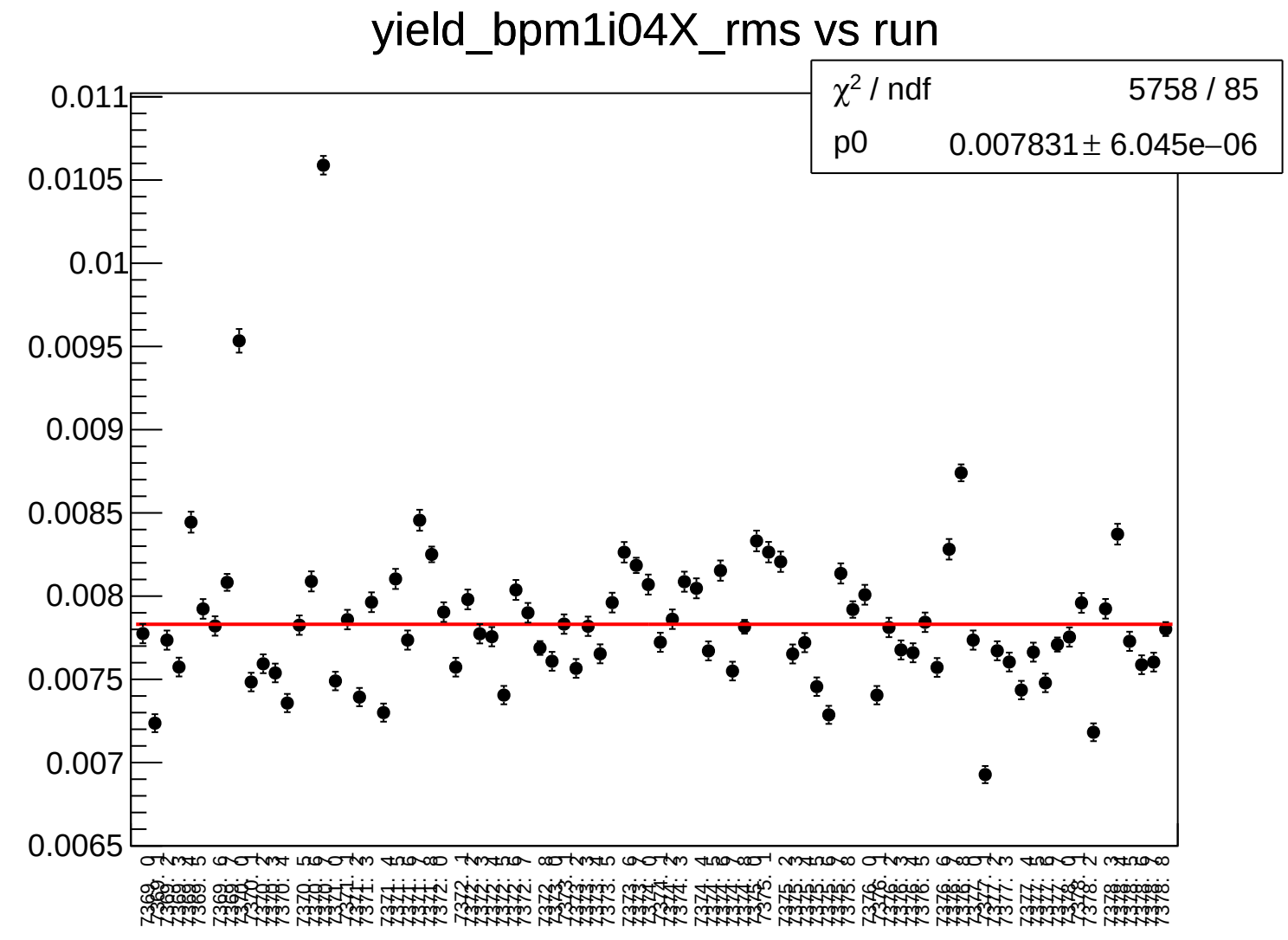

yield_bpm1i02Y_mean vs run
χ² / ndf 2.555e+07 / 85
p0 −1.695 ± 8.244e−06
−1.6
−1.62
−1.64
−1.66
−1.68
−1.7
−1.72
−1.74
pull
Entries 86
Mean −1972
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

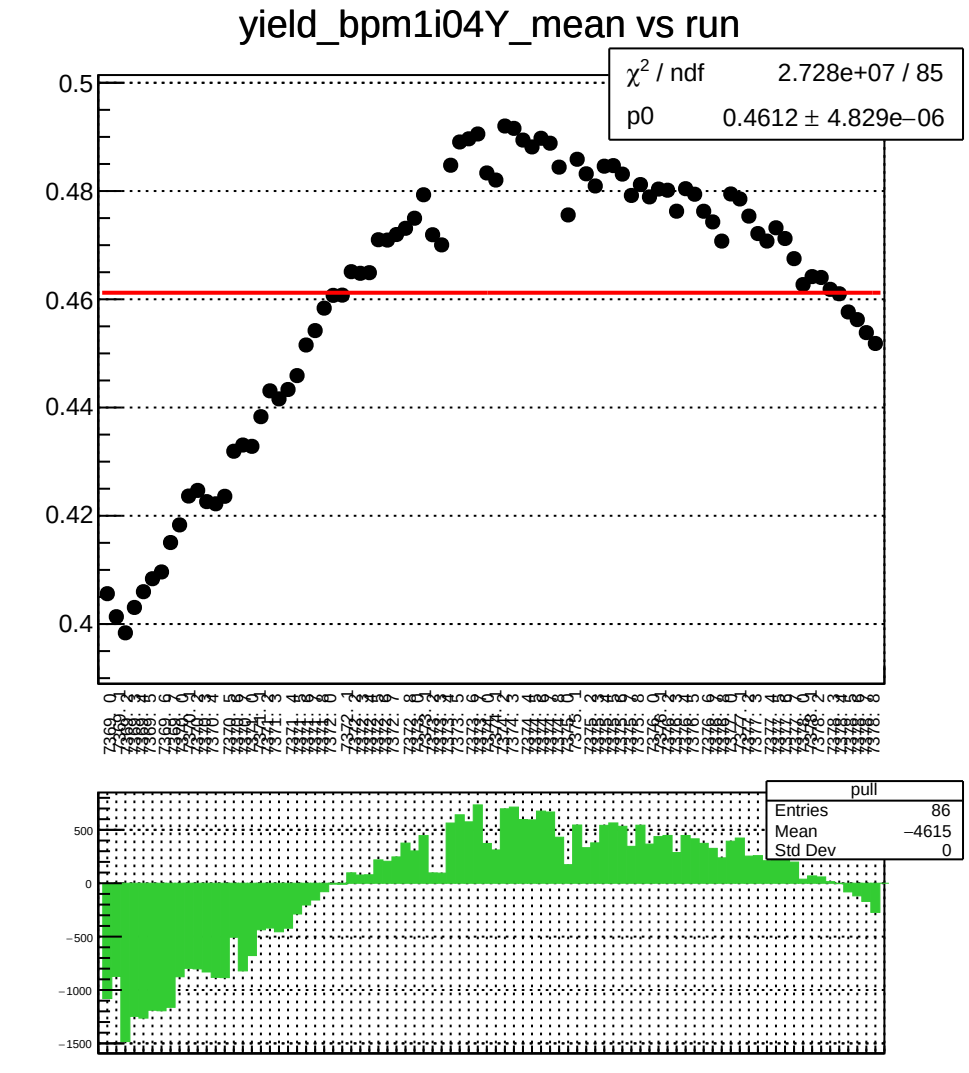

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

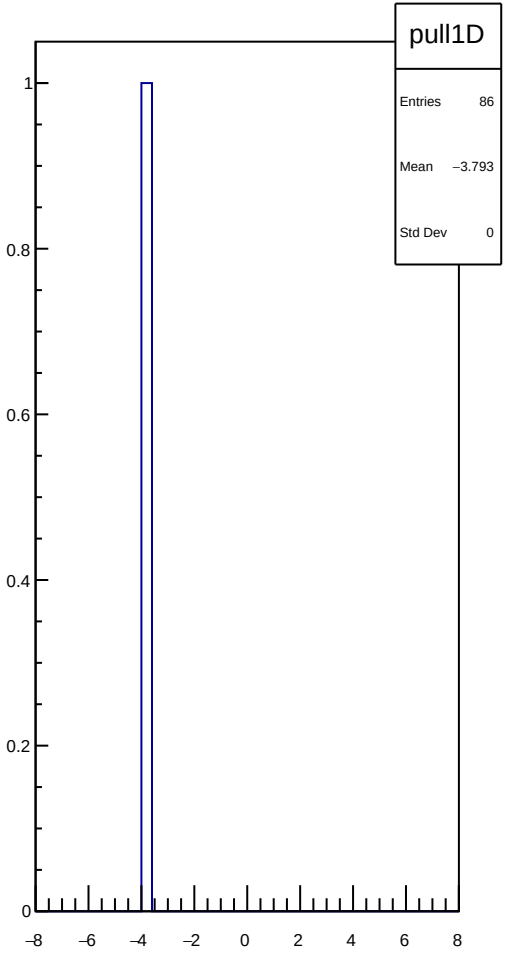

yield_bpm1i02Y_rms vs run
χ² / ndf 4111 / 85
p0 0.007556 ± 5.83e–06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

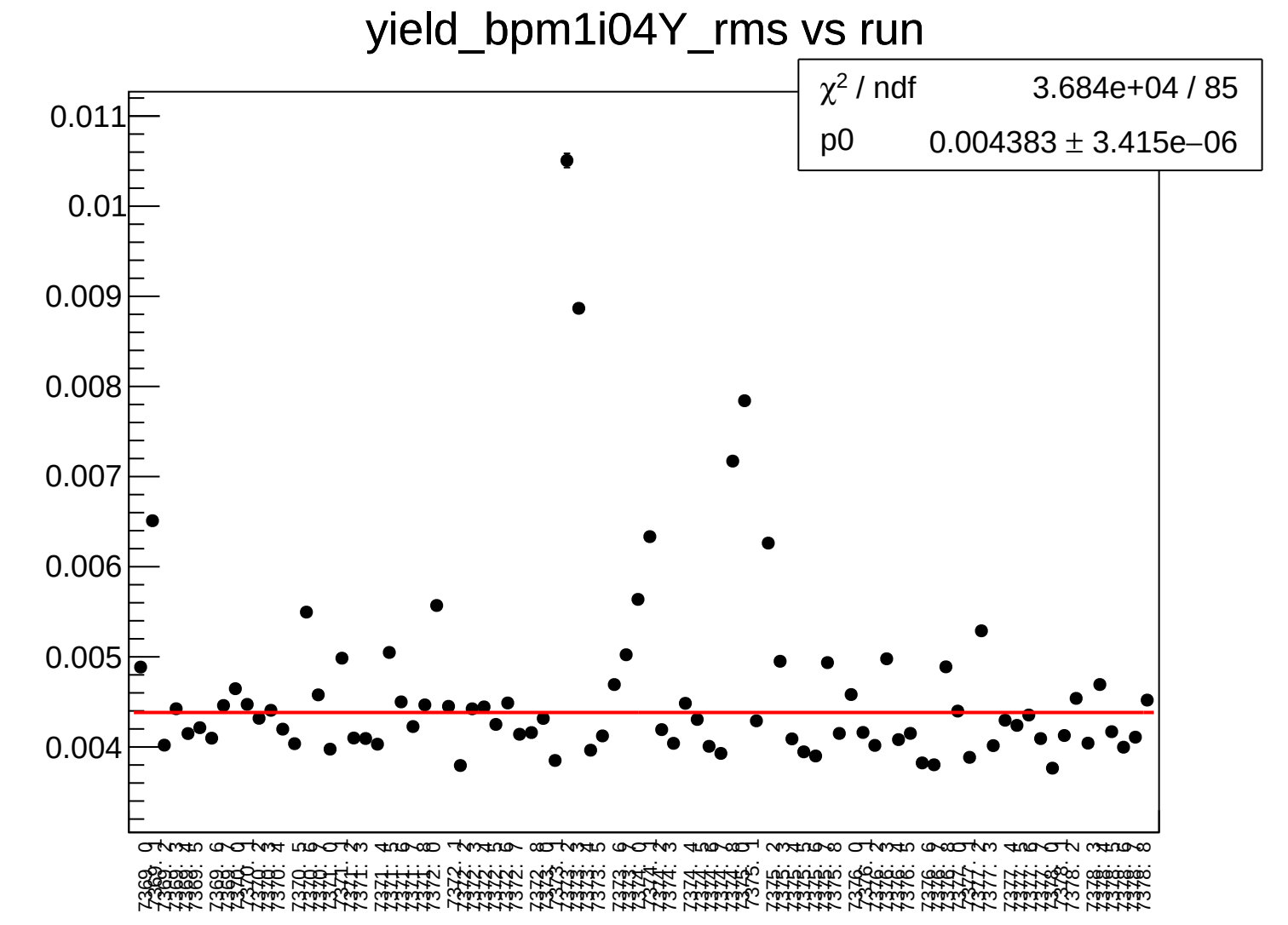

yield_bpm1i04X_mean vs run
χ² / ndf 8.595e+05 / 85
p0 1.114 ± 8.548e−06
1.125
1.12
1.115
1.11
1.105
1.1
1.095
pull
Entries 86
Mean −1447
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

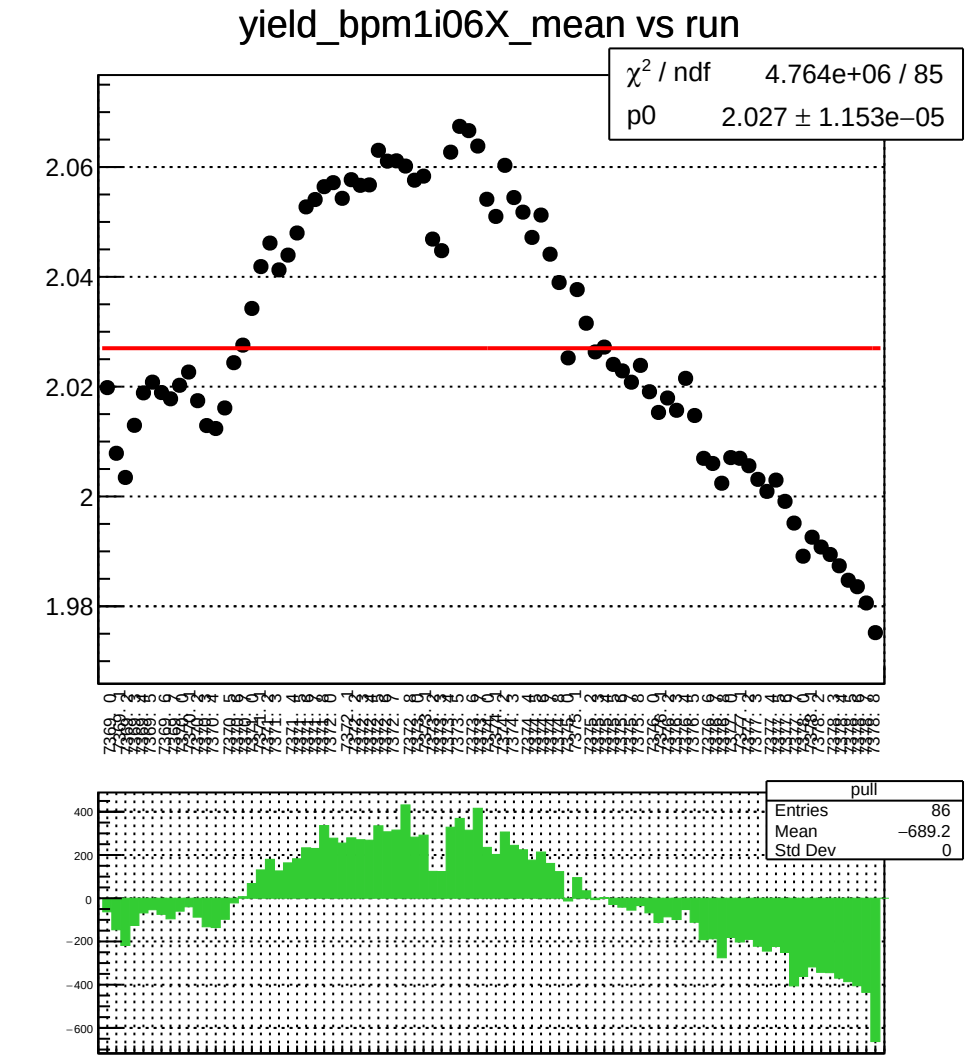

pull1D
Entries 86
Mean 3.918
Std Dev 1.128
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

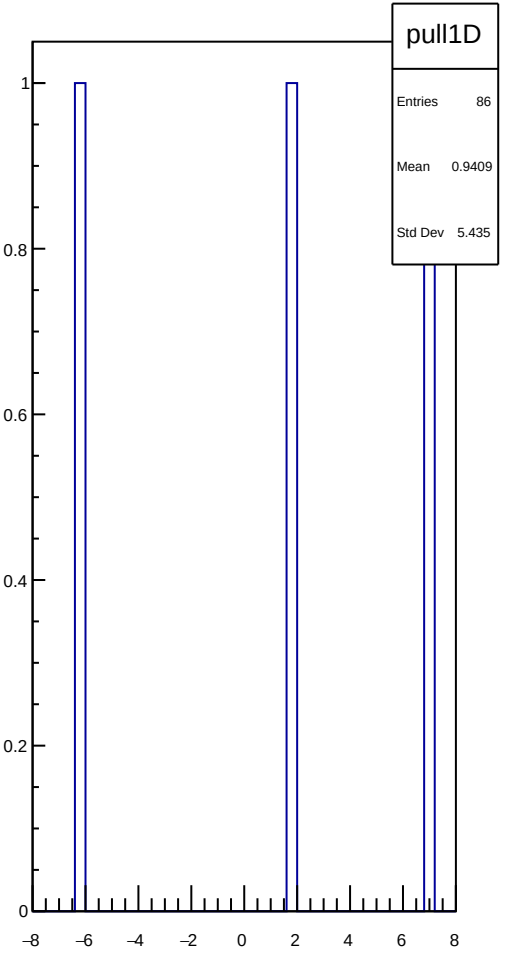

yield_bpm1i04X_rms vs run
χ² / ndf 5758 / 85
p0 0.007831 ± 6.045e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

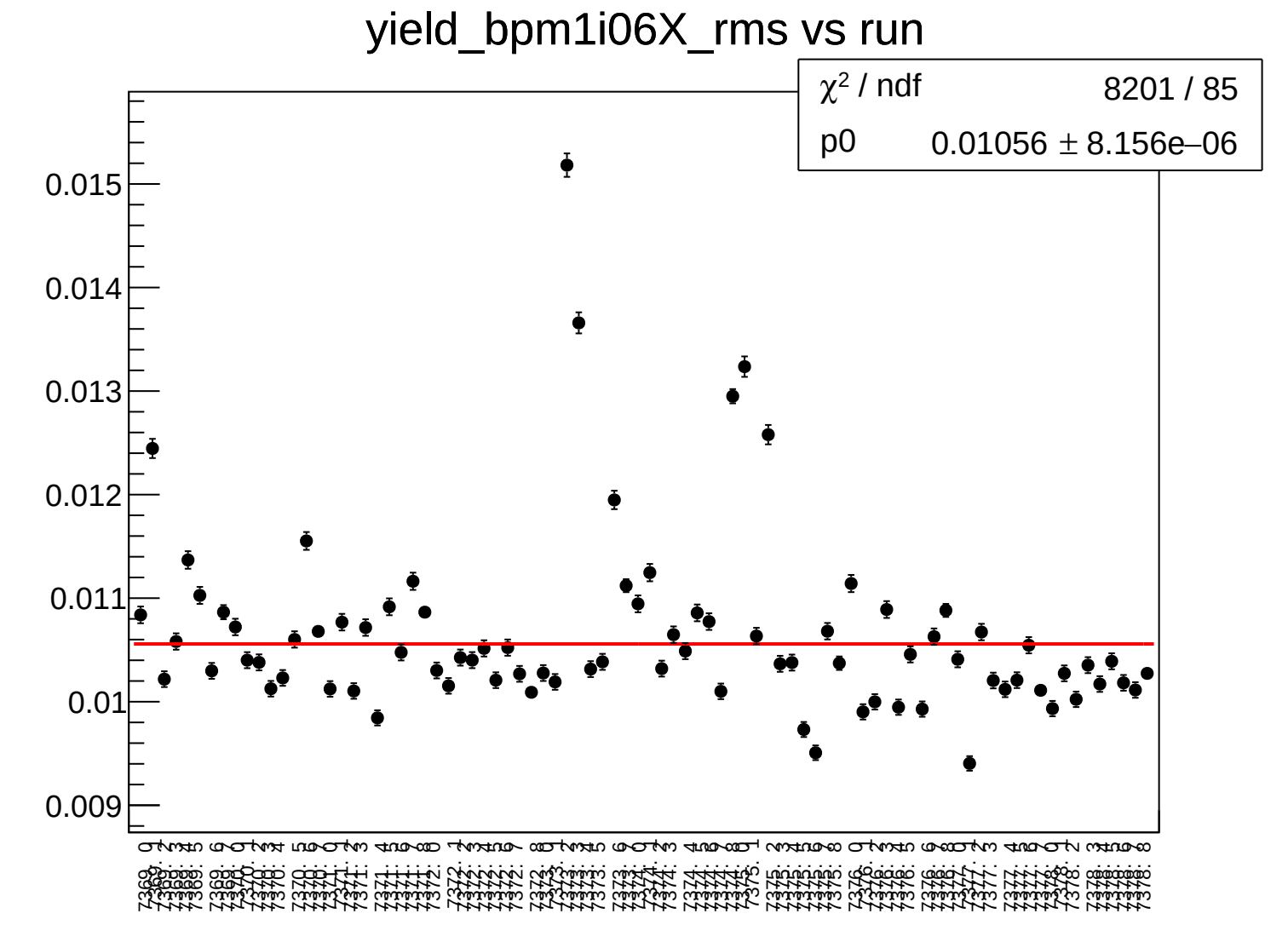

yield_bpm1i04Y_mean vs run
χ² / ndf 2.728e+07 / 85
p0 0.4612 ± 4.829e−06
0.5
0.48
0.46
0.44
0.42
0.4
pull
Entries 86
Mean −4615
Std Dev 0
500
0
−500
−1000
−1500

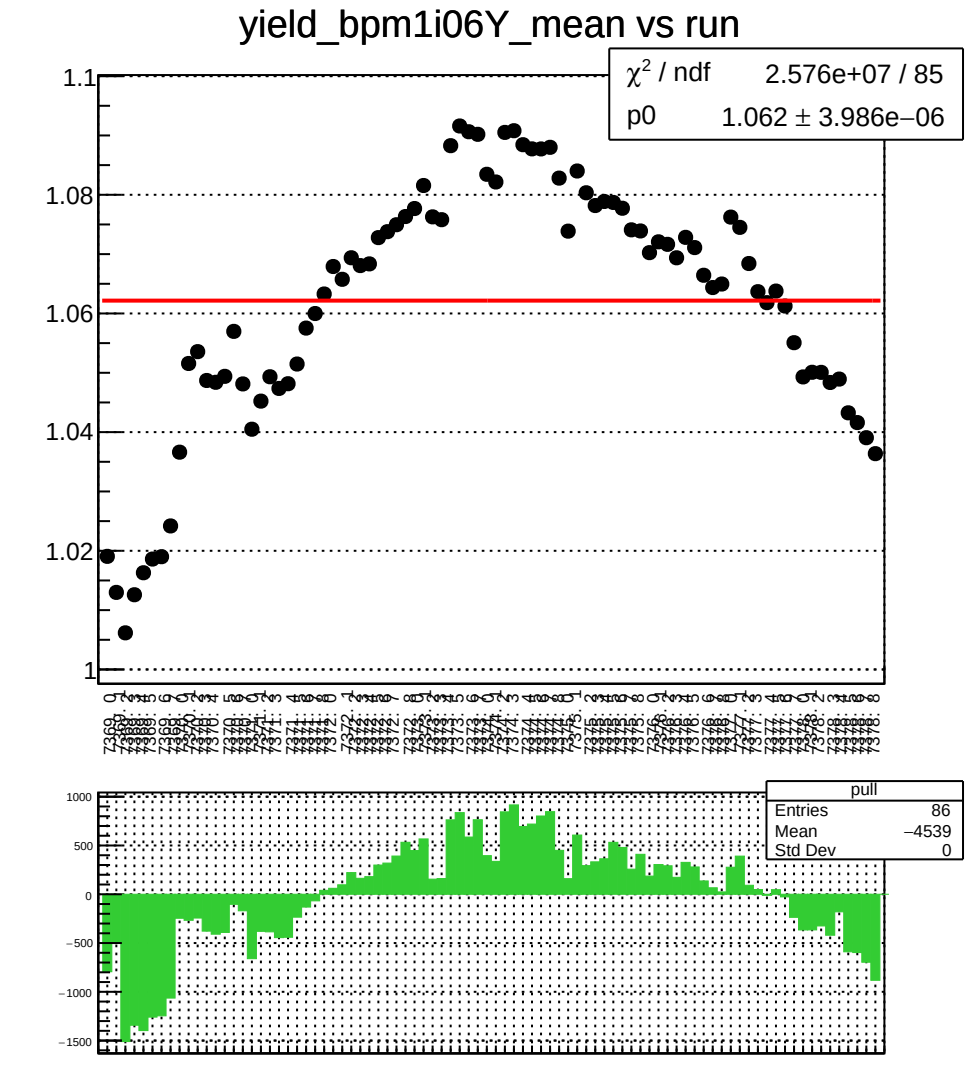

pull1D
Entries 86
Mean −3.793
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

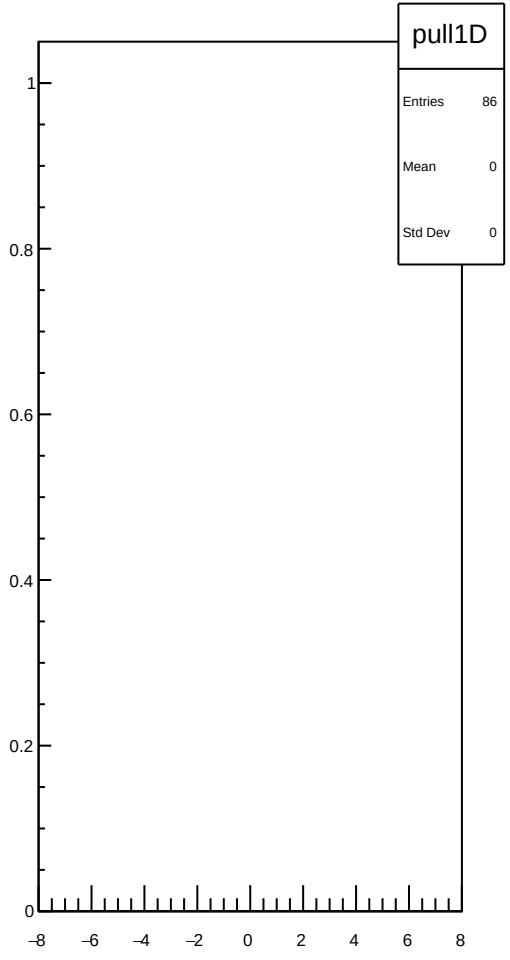

yield_bpm1i04Y_rms vs run
χ² / ndf 3.684e+04 / 85
p0 0.004383 ± 3.415e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

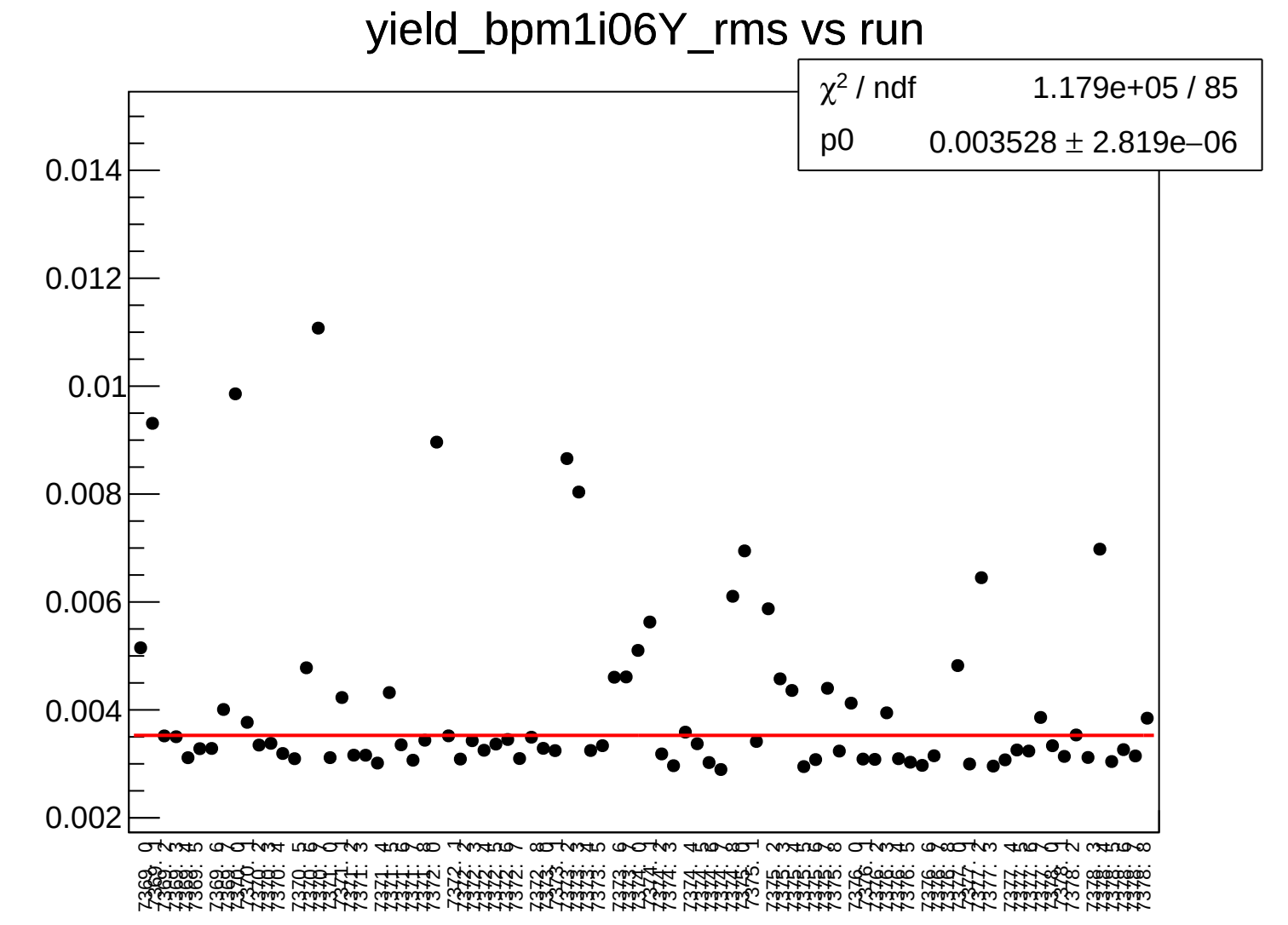

yield_bpm1i06X_mean vs run
χ² / ndf 4.764e+06 / 85
p0 2.027 ± 1.153e−05
2.06
2.04
2.02
2
1.98
pull
Entries 86
Mean −689.2
Std Dev 0
400
200
0
−200
−400
−600

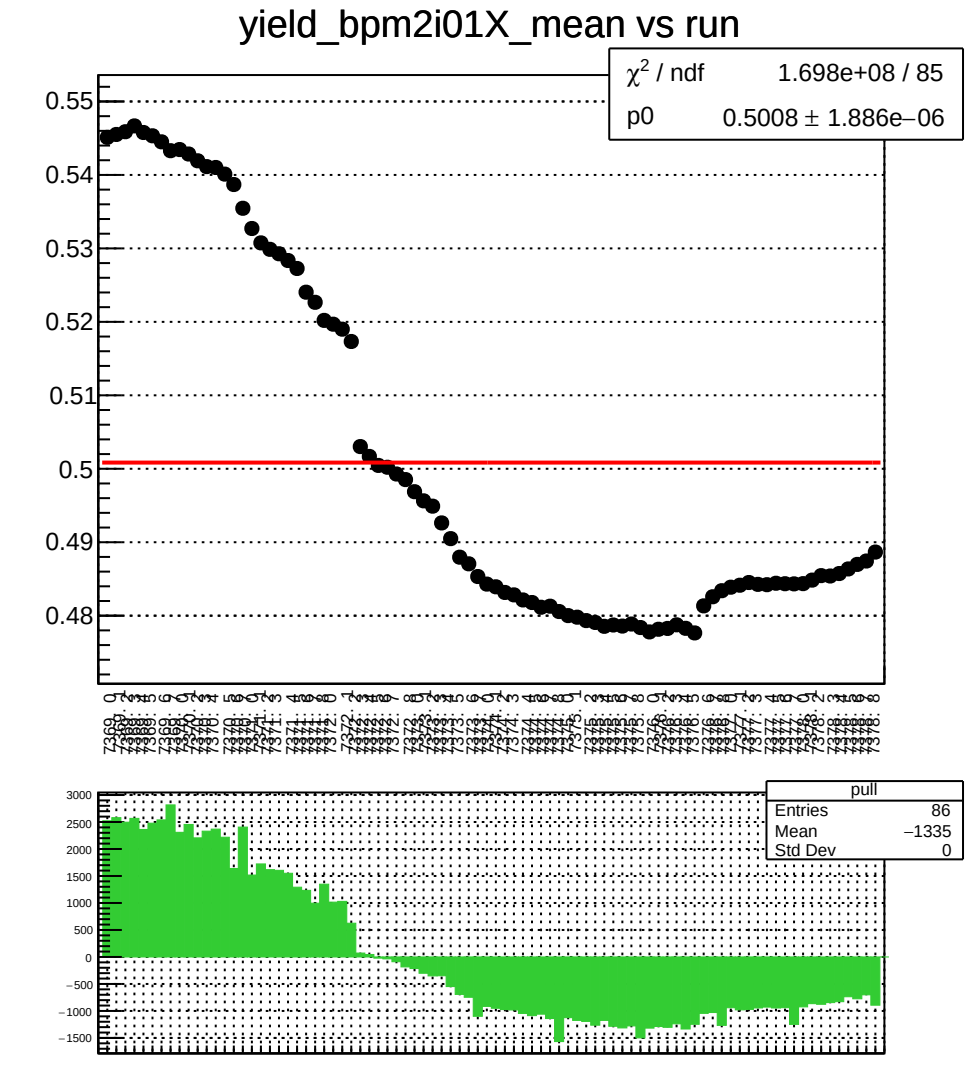

pull1D
Entries 86
Mean 0.9409
Std Dev 5.435
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

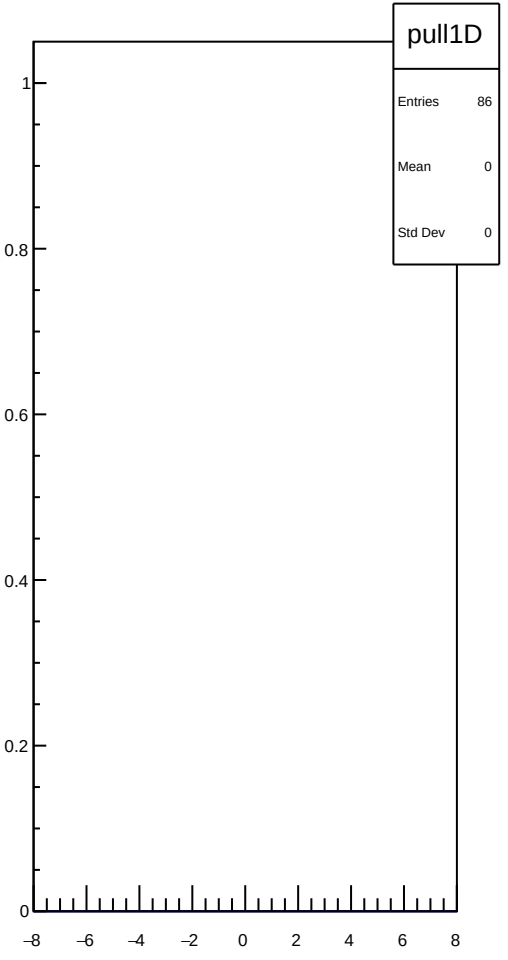

yield_bpm1i06X_rms vs run
χ² / ndf 8201 / 85
p0 0.01056 ± 8.156e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

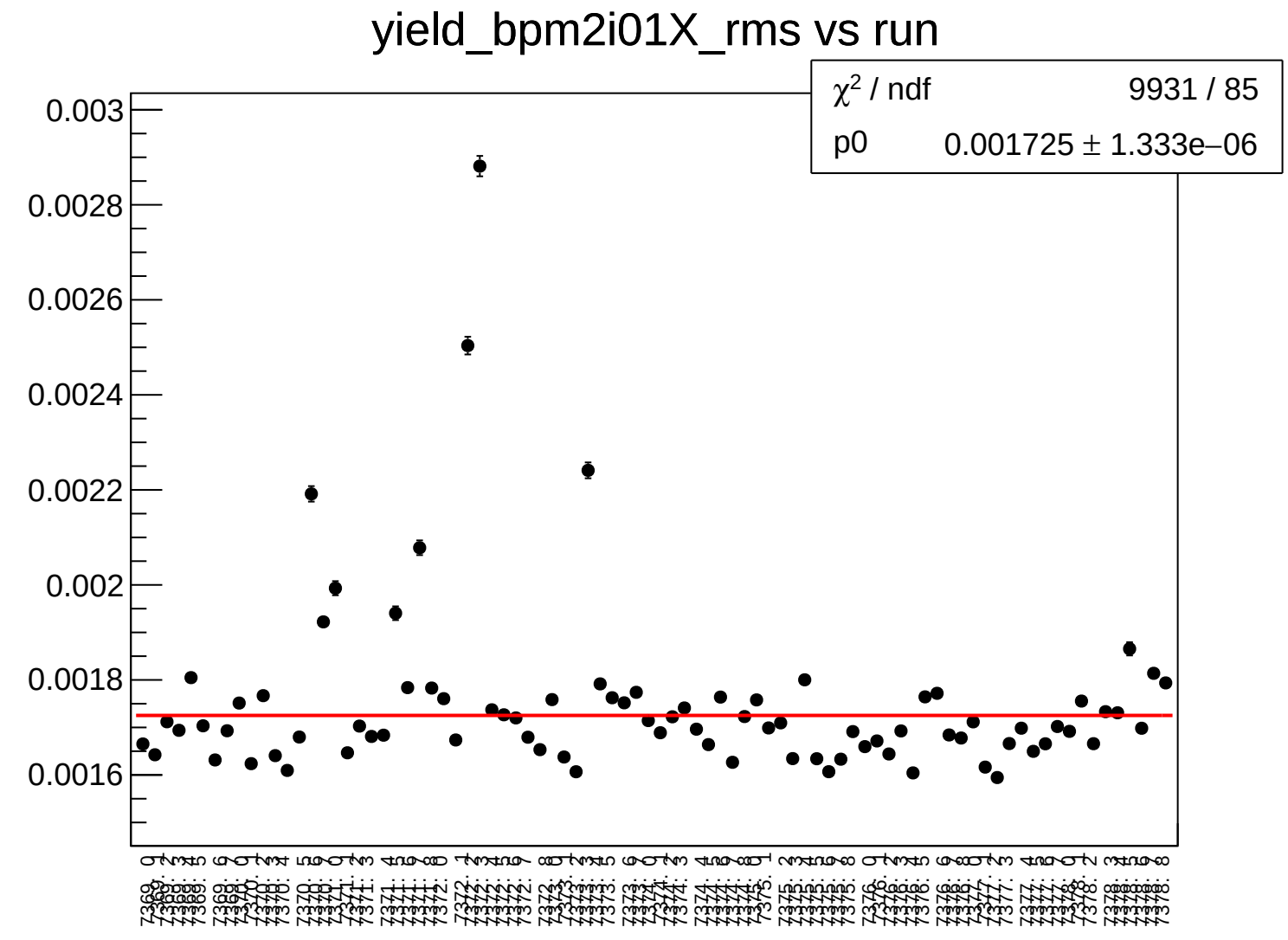

yield_bpm1i06Y_mean vs run
χ² / ndf 2.576e+07 / 85
p0 1.062 ± 3.986e−06
pull
Entries 86
Mean −4539
Std Dev 0

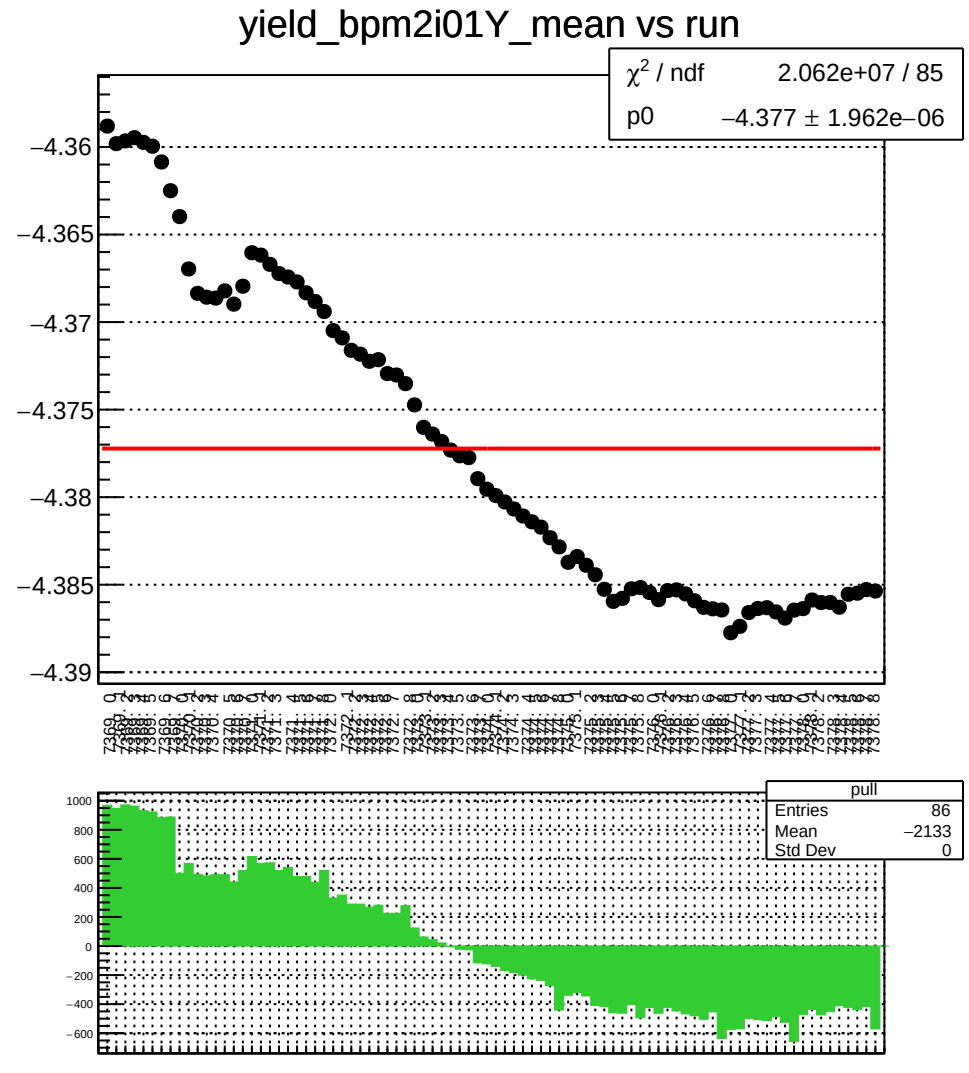

pull1D
Entries 86
Mean 0
Std Dev 0

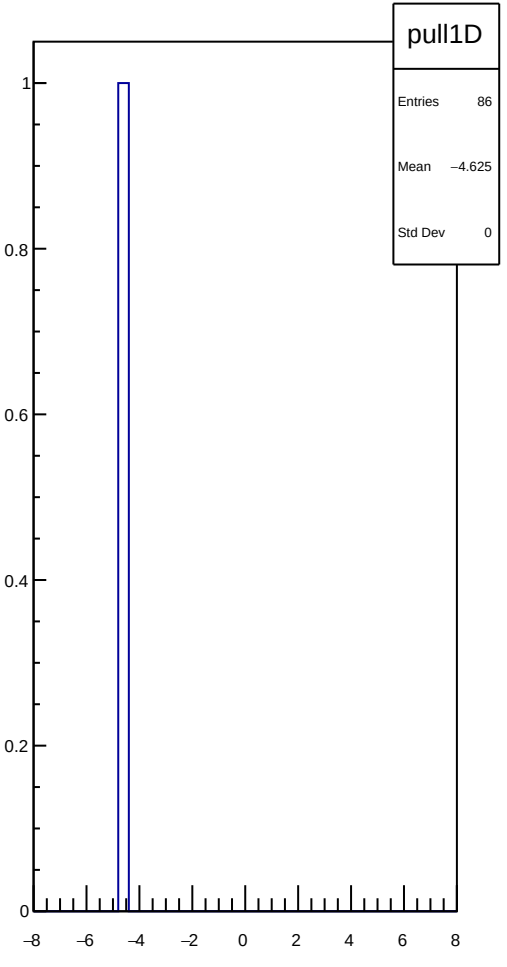

yield_bpm1i06Y_rms vs run
χ^2 / ndf 1.179e+05 / 85
p0 0.003528 ± 2.819e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

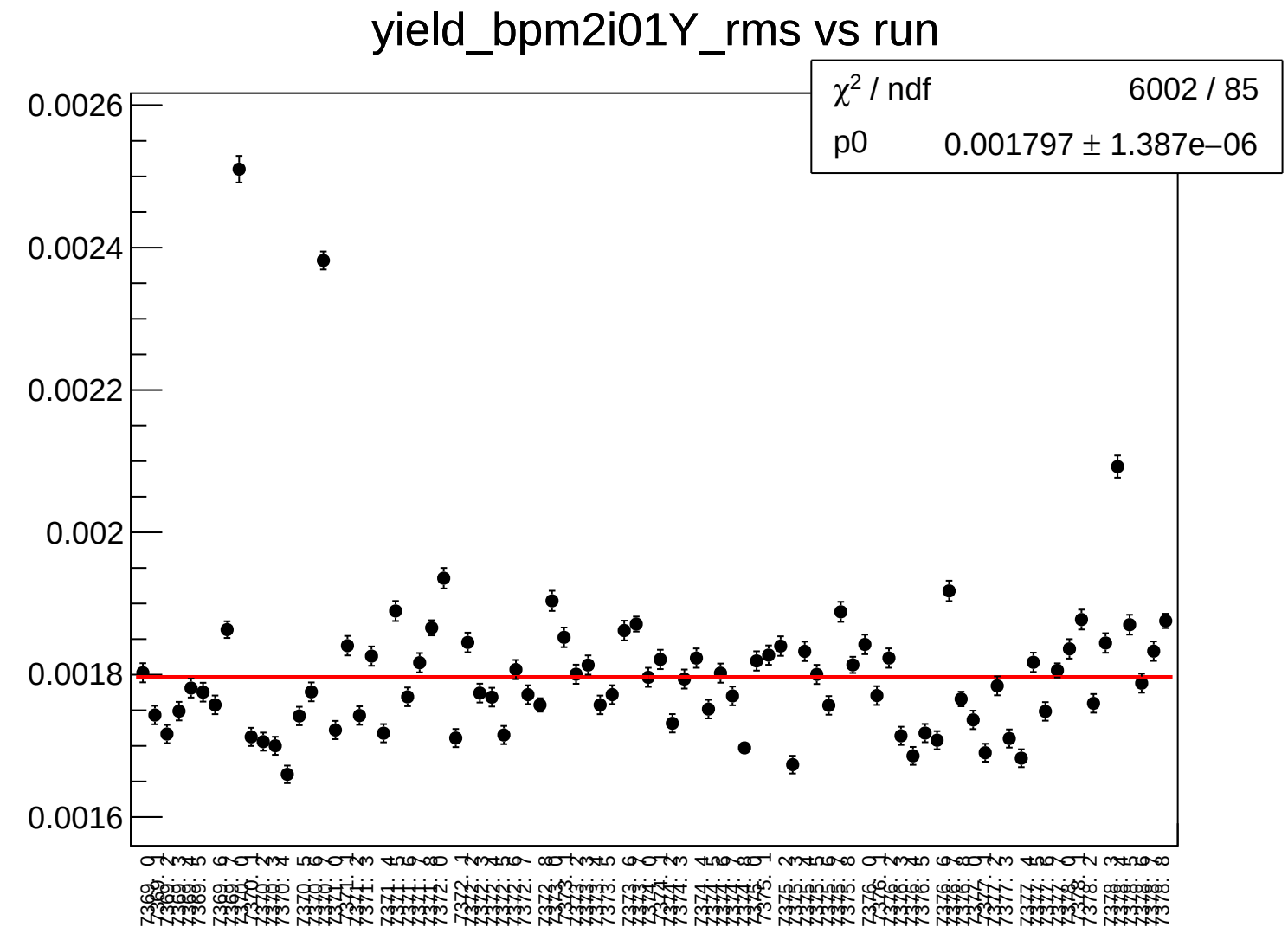

yield_bpm2i01X_mean vs run
χ² / ndf 1.698e+08 / 85
p0 0.5008 ± 1.886e−06
0.55
0.54
0.53
0.52
0.51
0.5
0.49
0.48
pull
Entries 86
Mean −1335
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000
−1500

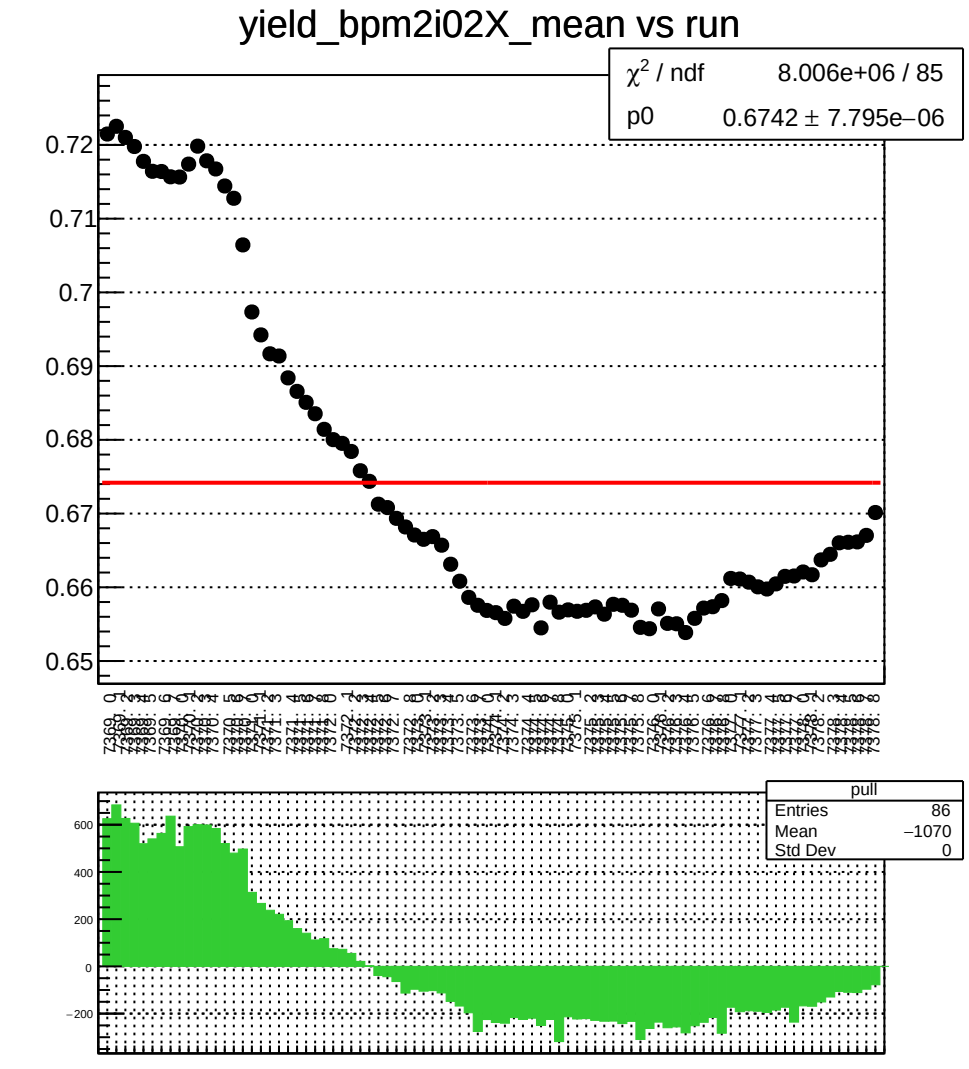

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

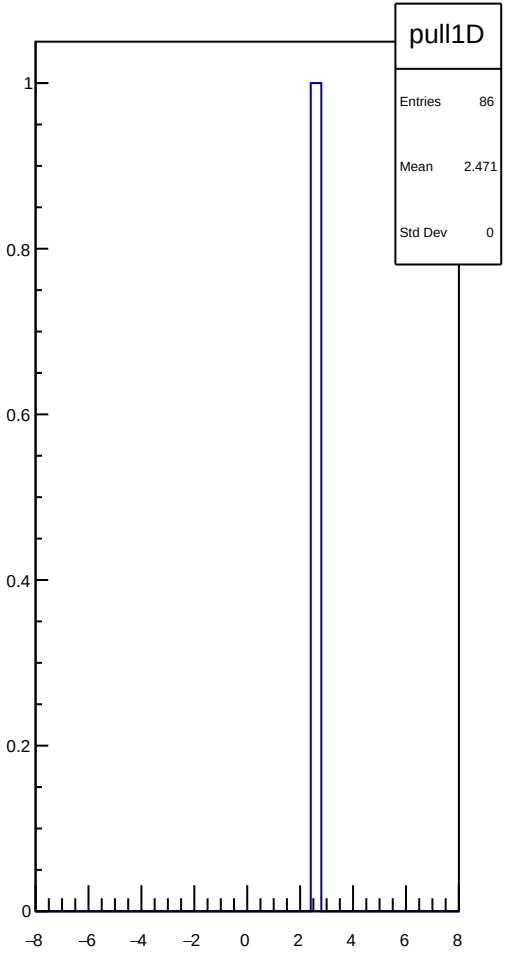

yield_bpm2i01X_rms vs run
χ² / ndf 9931 / 85
p0 0.001725 ± 1.333e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

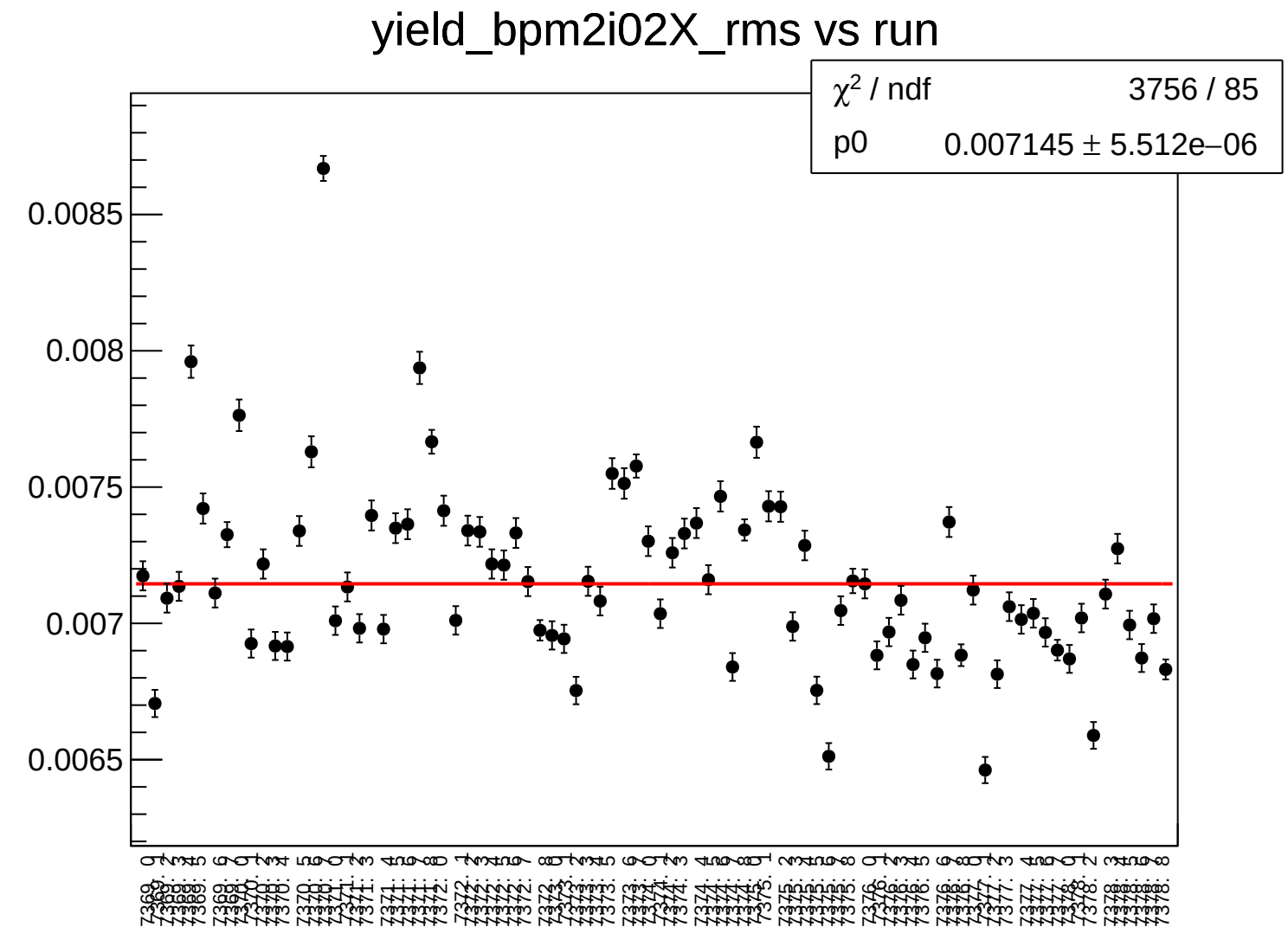

yield_bpm2i01Y_mean vs run
χ² / ndf 2.062e+07 / 85
p0 −4.377 ± 1.962e−06
−4.36
−4.365
−4.37
−4.375
−4.38
−4.385
−4.39
pull
Entries 86
Mean −2133
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

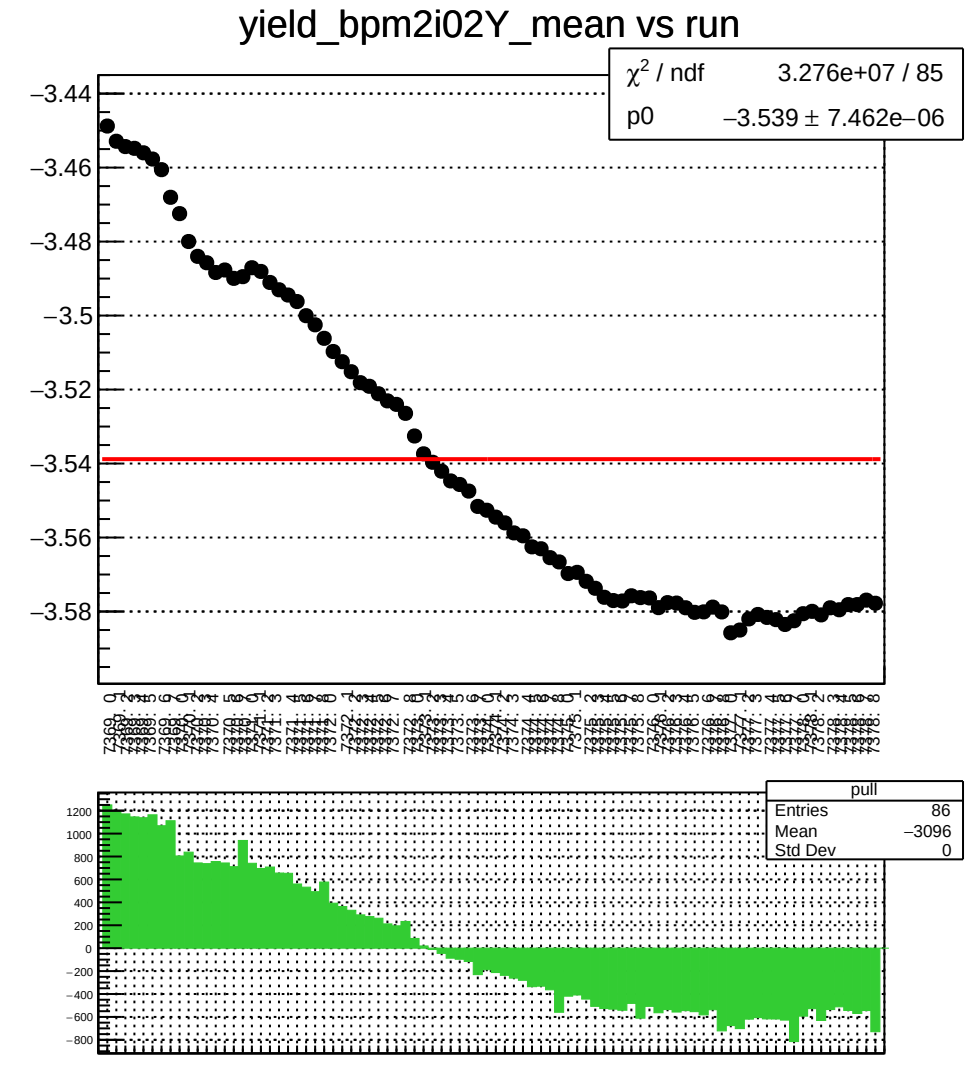

pull1D
Entries 86
Mean −4.625
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

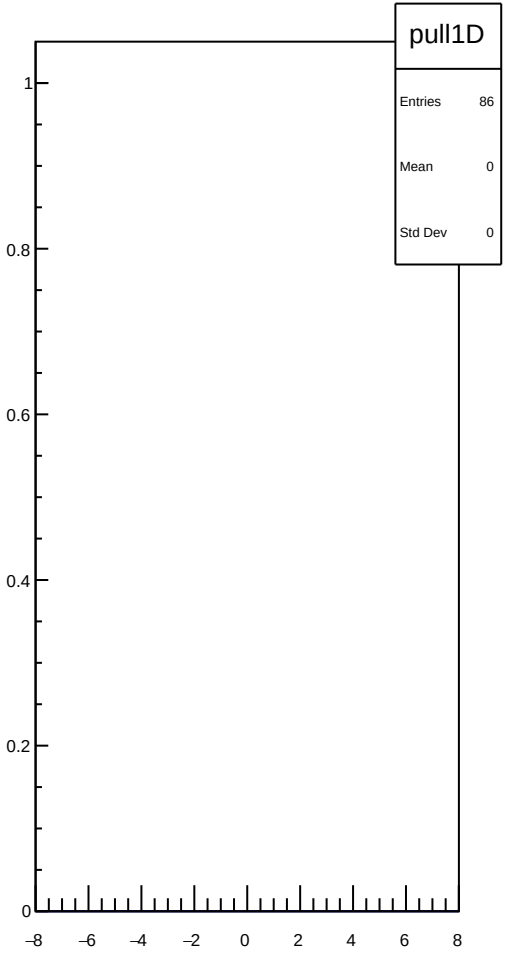

yield_bpm2i01Y_rms vs run
χ² / ndf 6002 / 85
p0 0.001797 ± 1.387e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

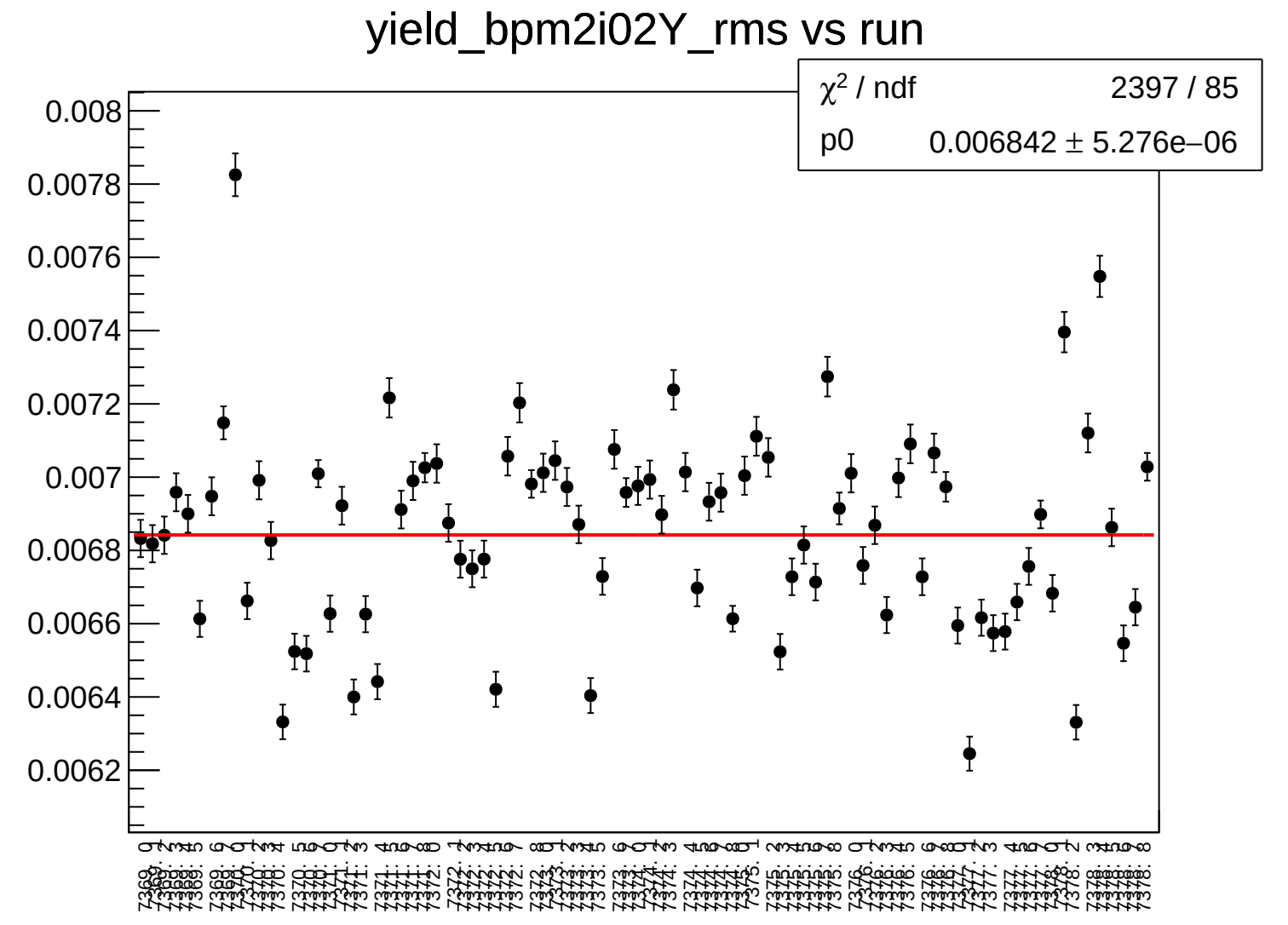

yield_bpm2i02X_mean vs run
χ² / ndf 8.006e+06 / 85
p0 0.6742 ± 7.795e−06
0.72
0.71
0.7
0.69
0.68
0.67
0.66
0.65
pull
Entries 86
Mean −1070
Std Dev 0
600
400
200
0
−200

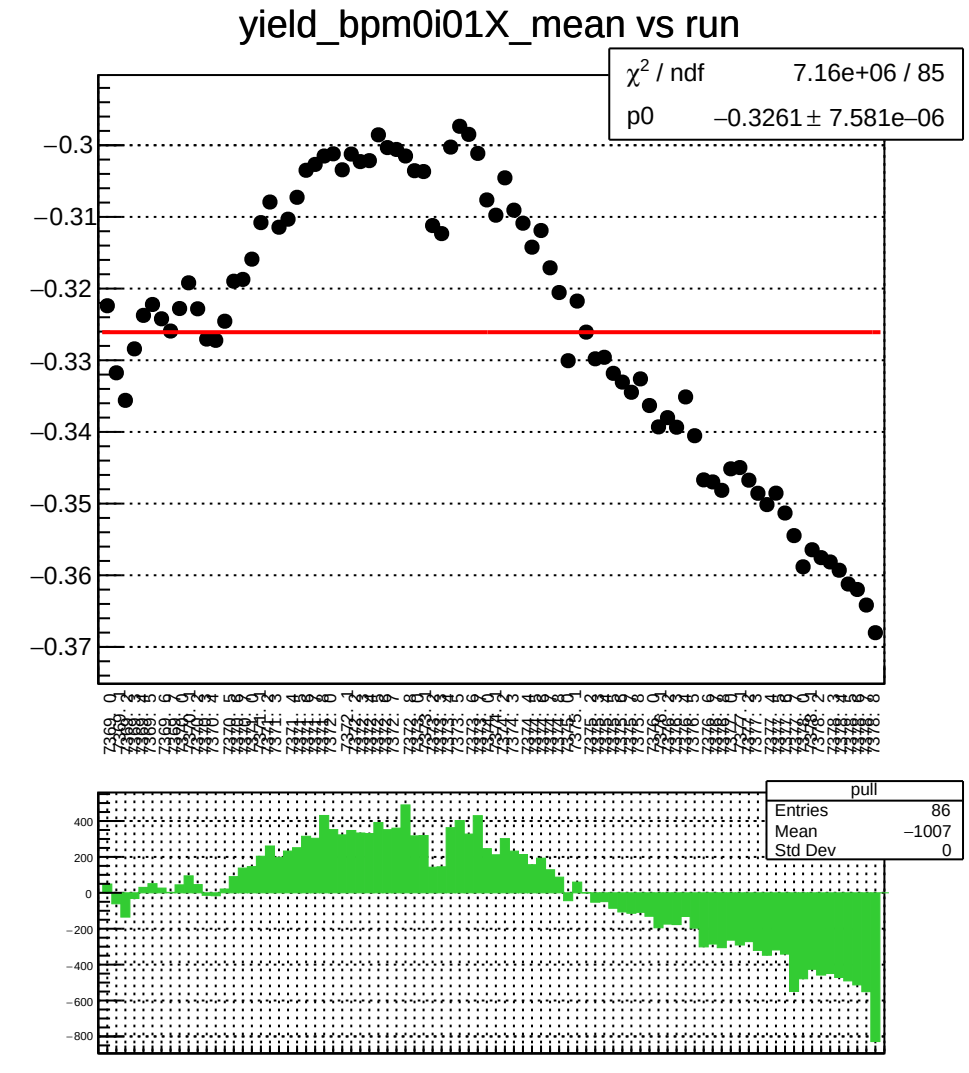

pull1D
Entries 86
Mean 2.471
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

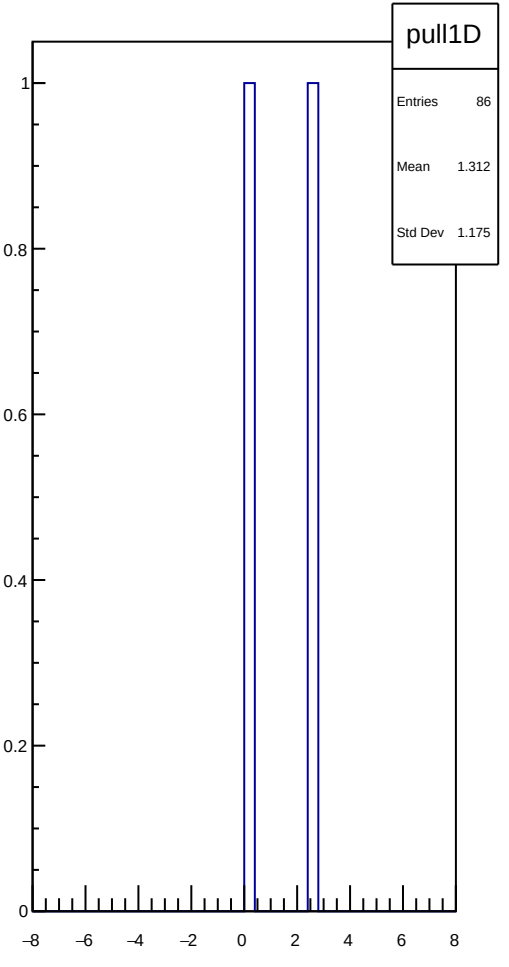

yield_bpm2i02X_rms vs run
χ² / ndf 3756 / 85
p0 0.007145 ± 5.512e−06
0.0085
0.008
0.0075
0.007
0.0065

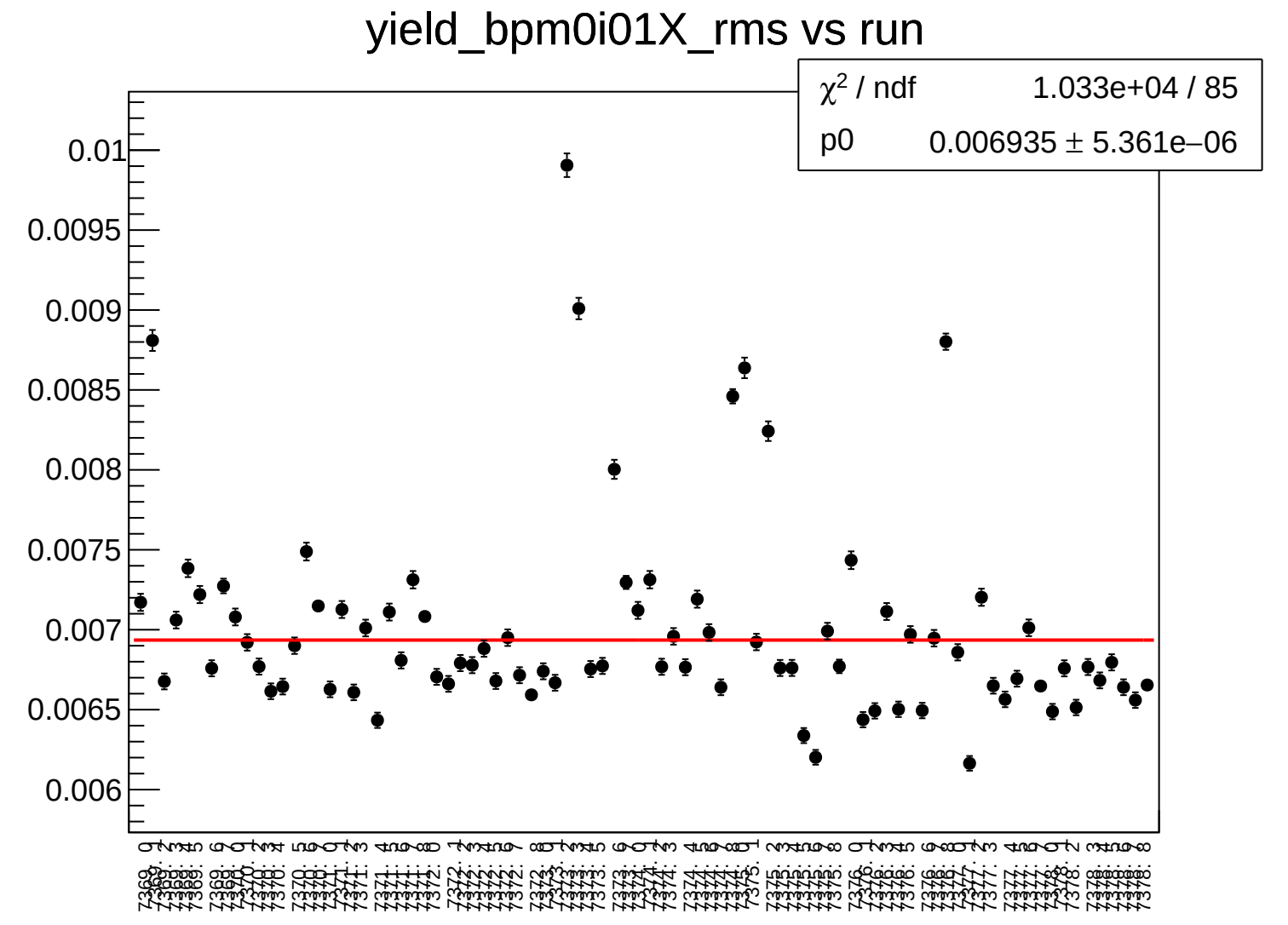

yield_bpm2i02Y_mean vs run
χ² / ndf 3.276e+07 / 85
p0 −3.539 ± 7.462e−06
−3.44
−3.46
−3.48
−3.5
−3.52
−3.54
−3.56
−3.58
pull
Entries 86
Mean −3096
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

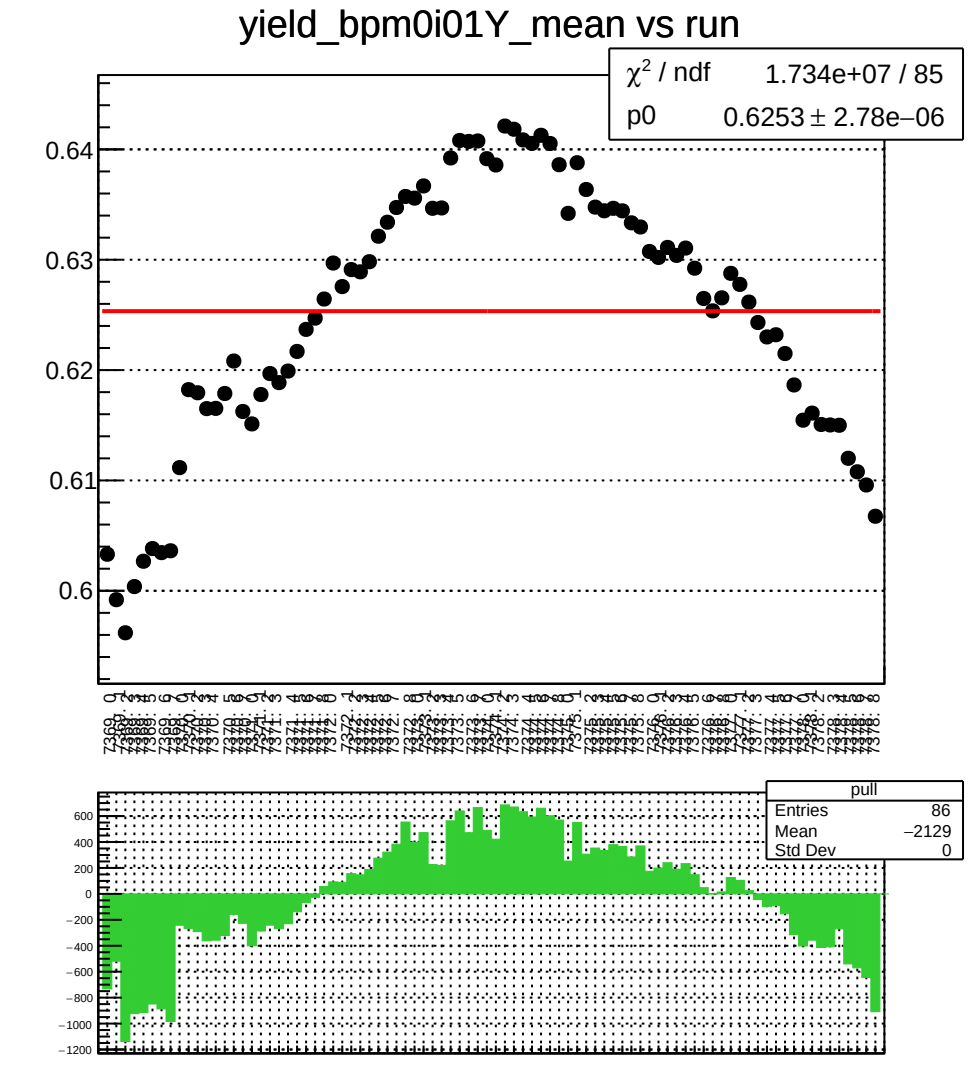

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

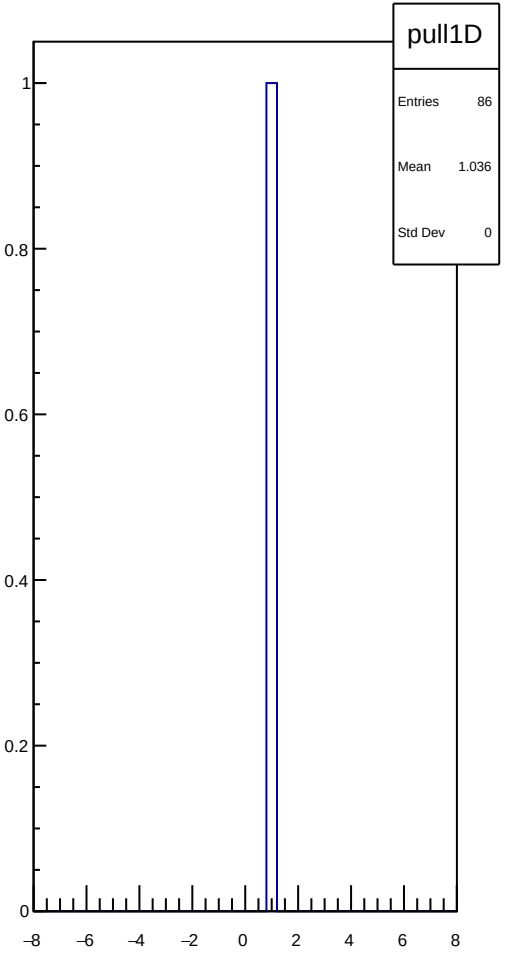

yield_bpm2i02Y_rms vs run
χ² / ndf 2397 / 85
p0 0.006842 ± 5.276e−06
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

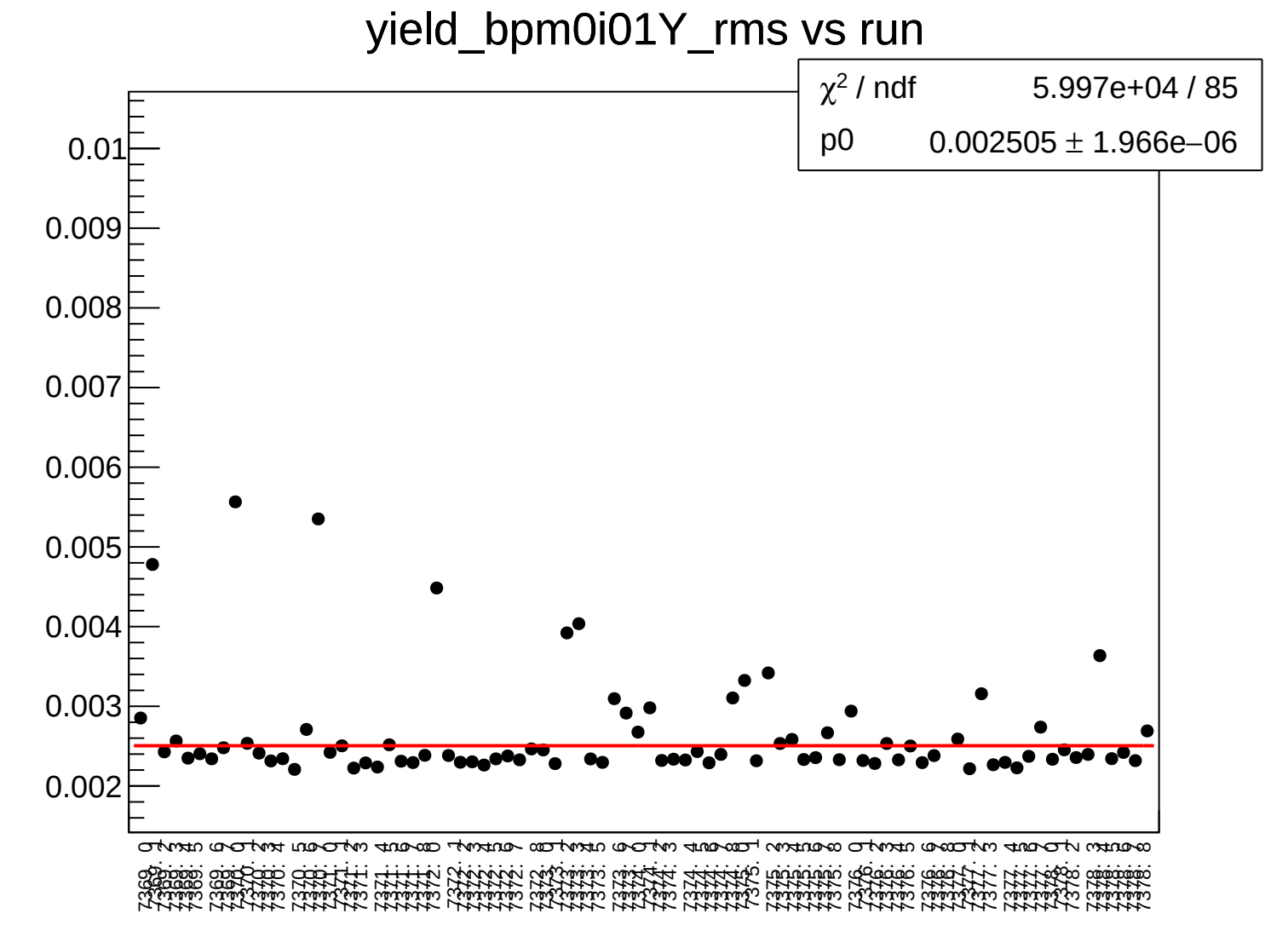

yield_bpm0i01X_mean vs run
χ² / ndf 7.16e+06 / 85
p0 −0.3261 ± 7.581e−06
−0.3
−0.31
−0.32
−0.33
−0.34
−0.35
−0.36
−0.37
pull
Entries 86
Mean −1007
Std Dev 0
400
200
0
−200
−400
−600
−800

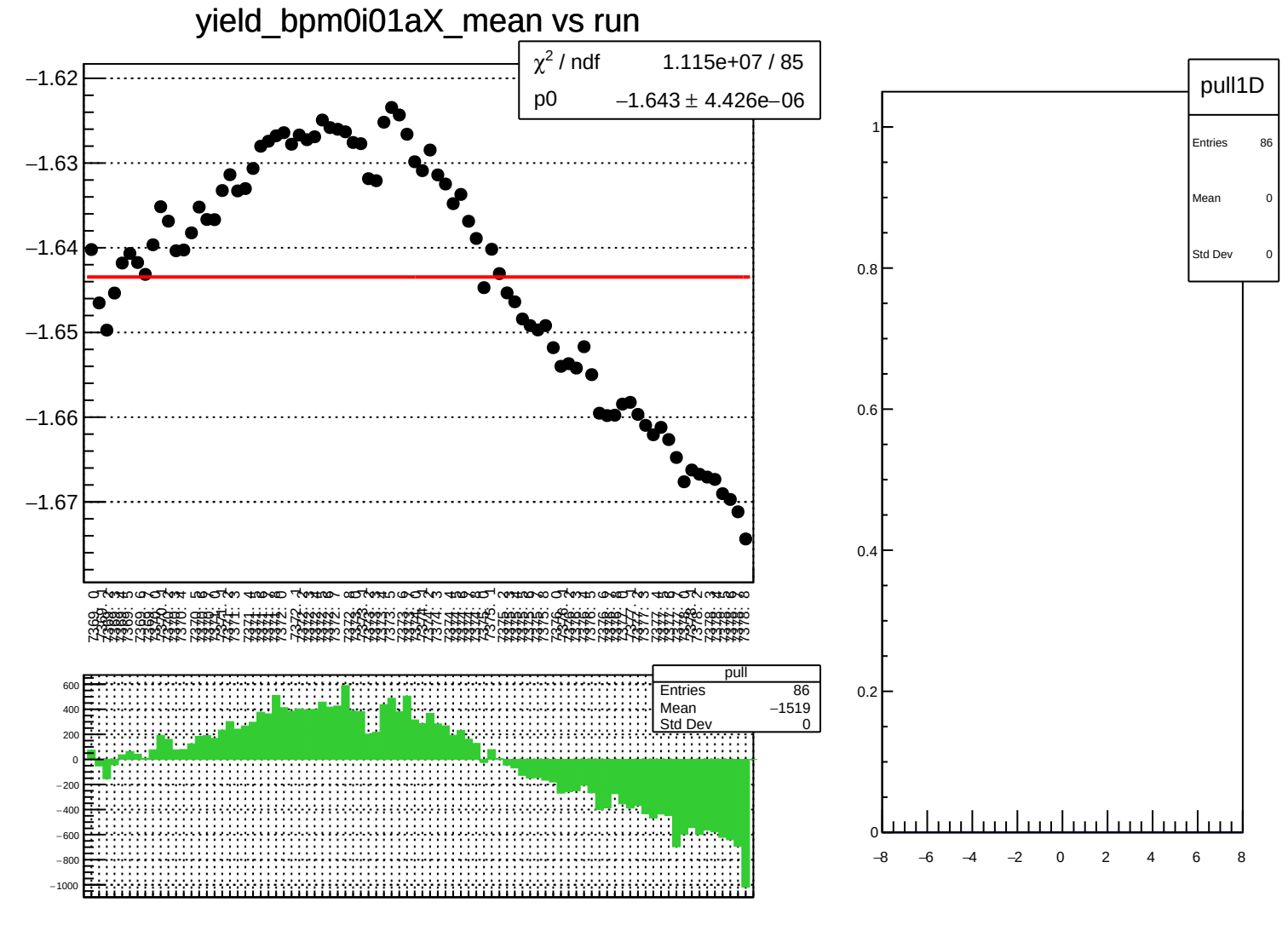

pull1D
Entries 86
Mean 1.312
Std Dev 1.175
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

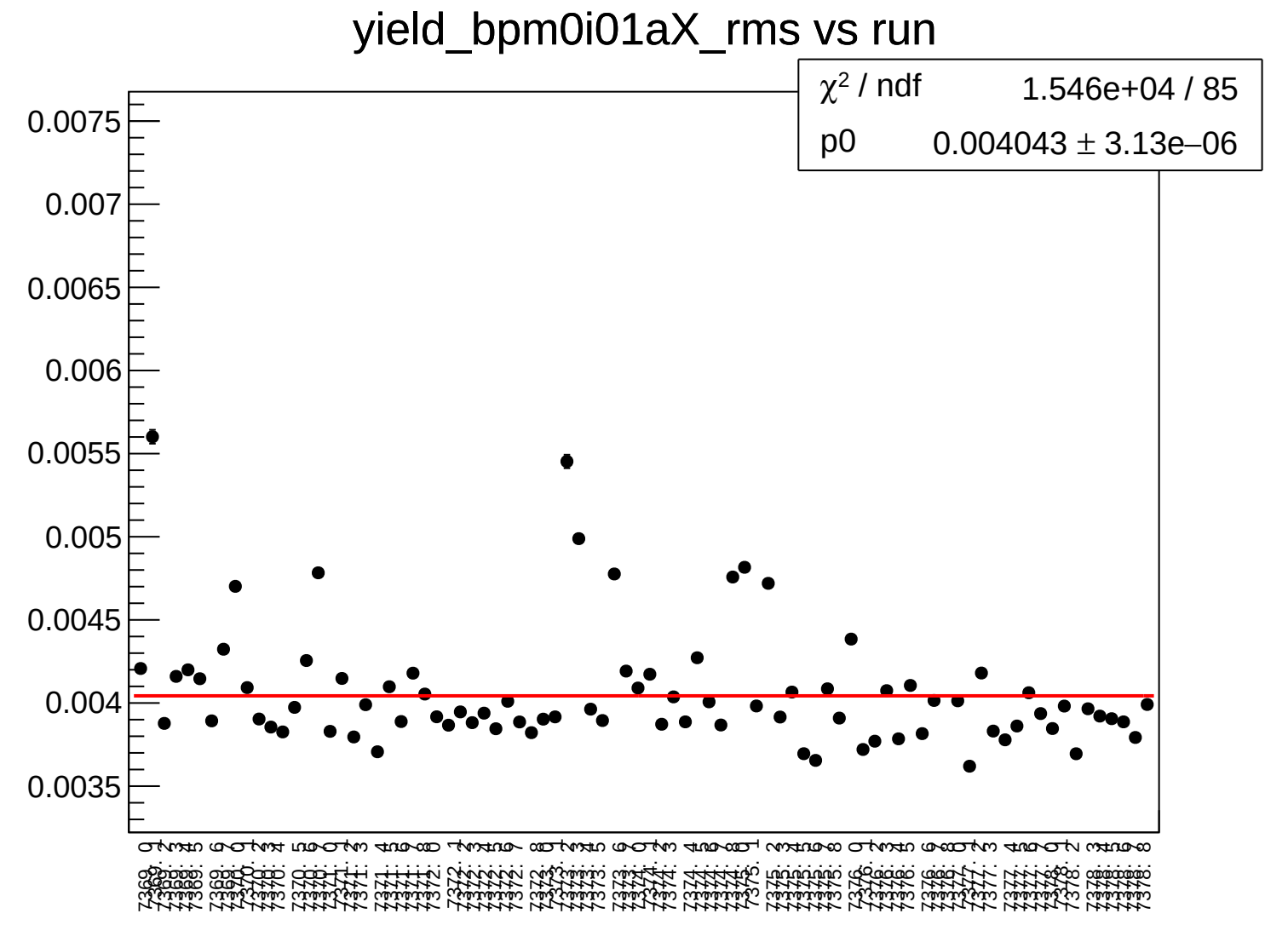

yield_bpm0i01X_rms vs run
χ² / ndf 1.033e+04 / 85
p0 0.006935 ± 5.361e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

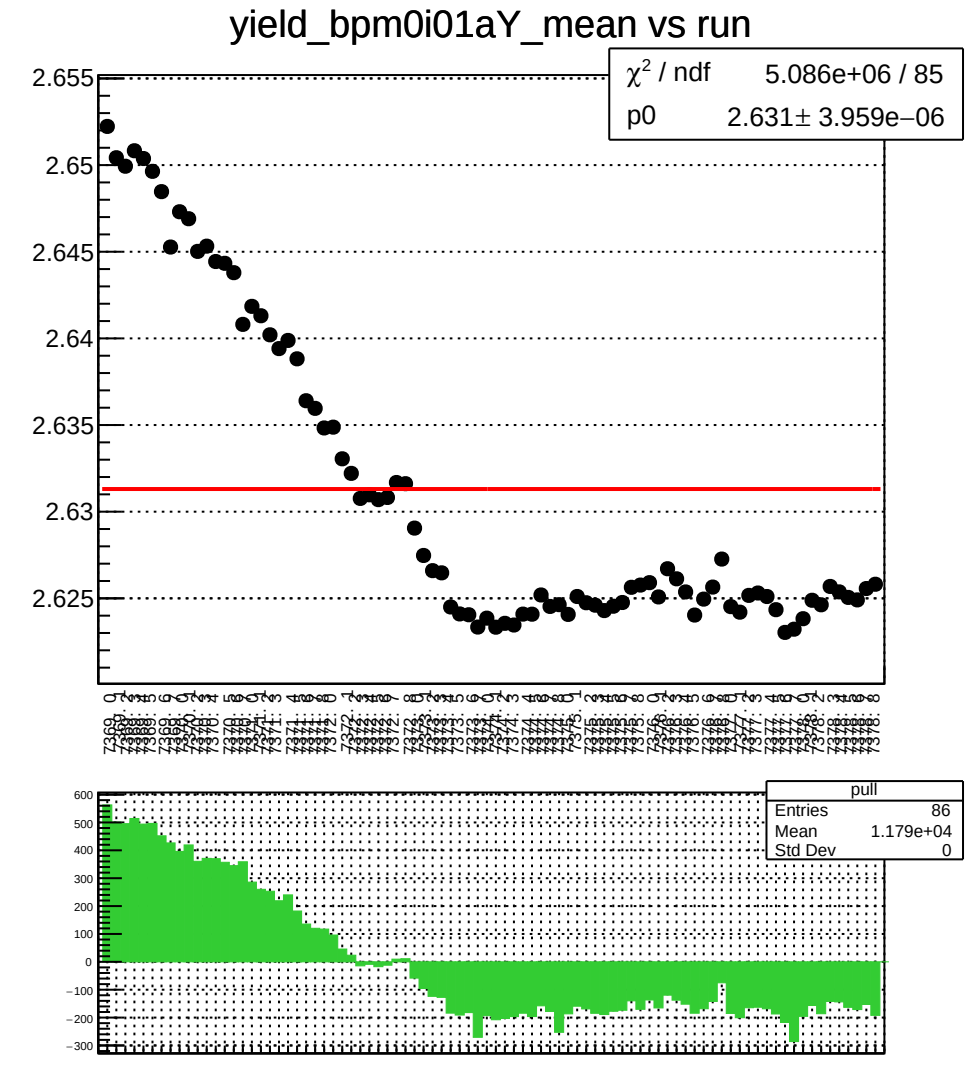

yield_bpm0i01Y_mean vs run
χ² / ndf 1.734e+07 / 85
p0 0.6253 ± 2.78e−06
0.64
0.63
0.62
0.61
0.6
pull
Entries 86
Mean −2129
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

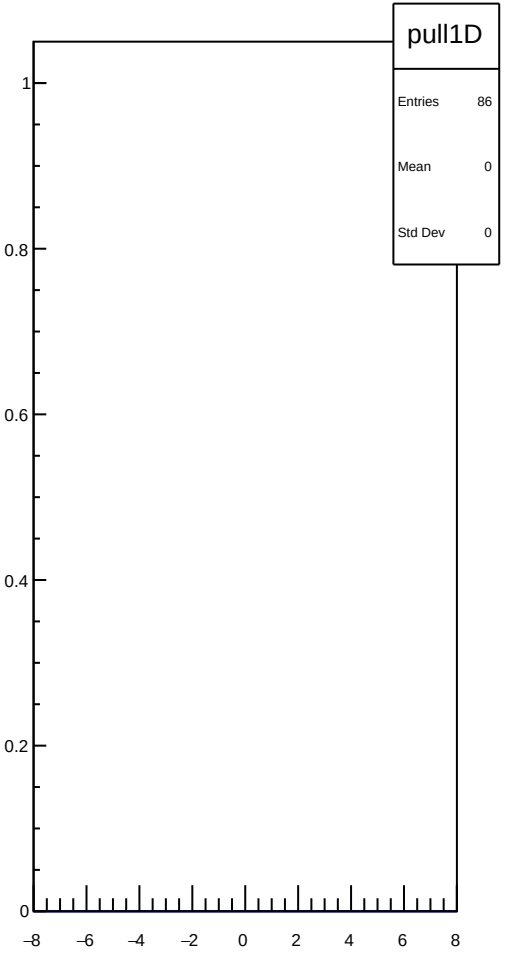

pull1D
Entries 86
Mean 1.036
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

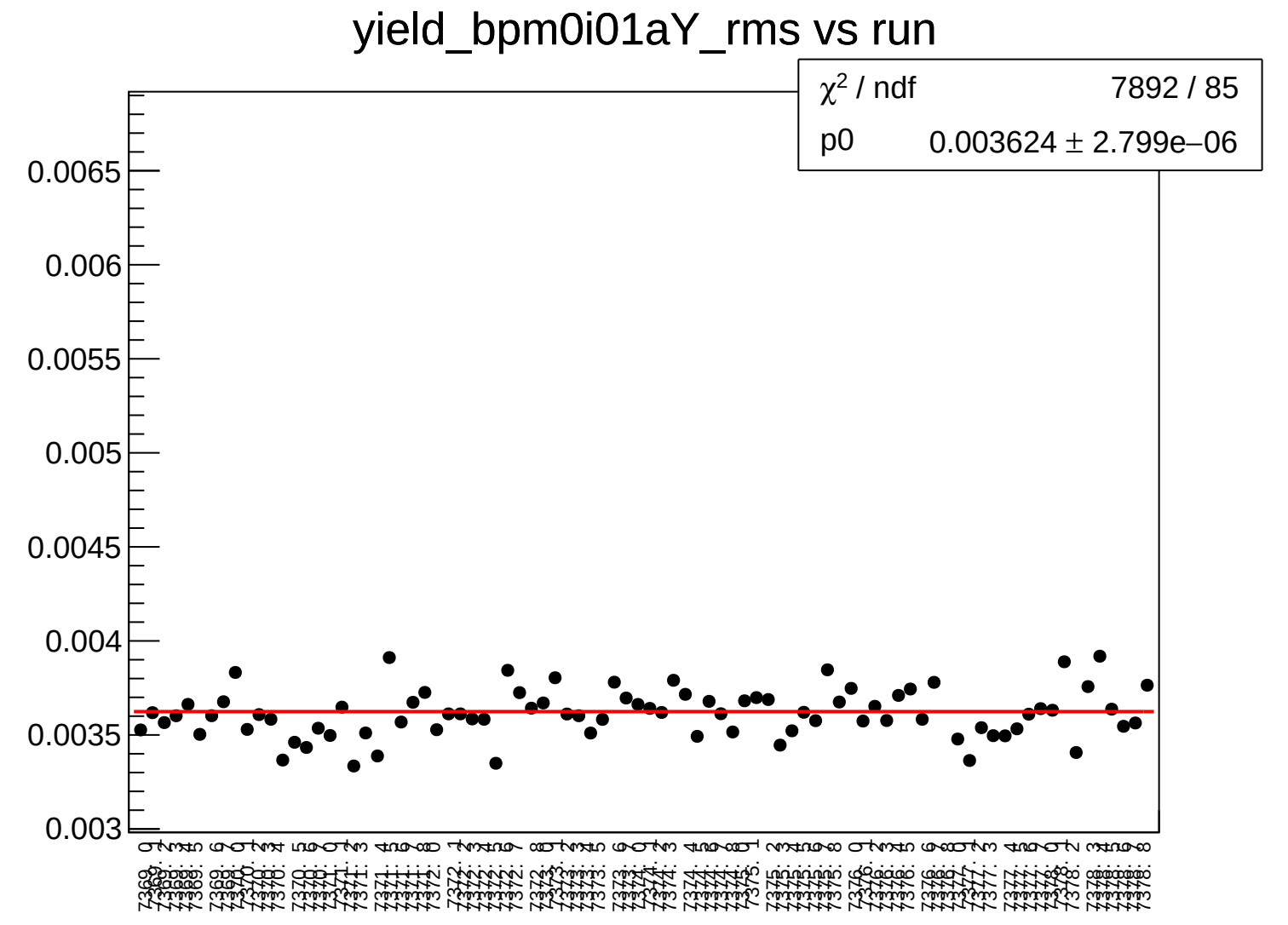

yield_bpm0i01Y_rms vs run
χ^2 / ndf 5.997e+04 / 85
p0 0.002505 ± 1.966e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

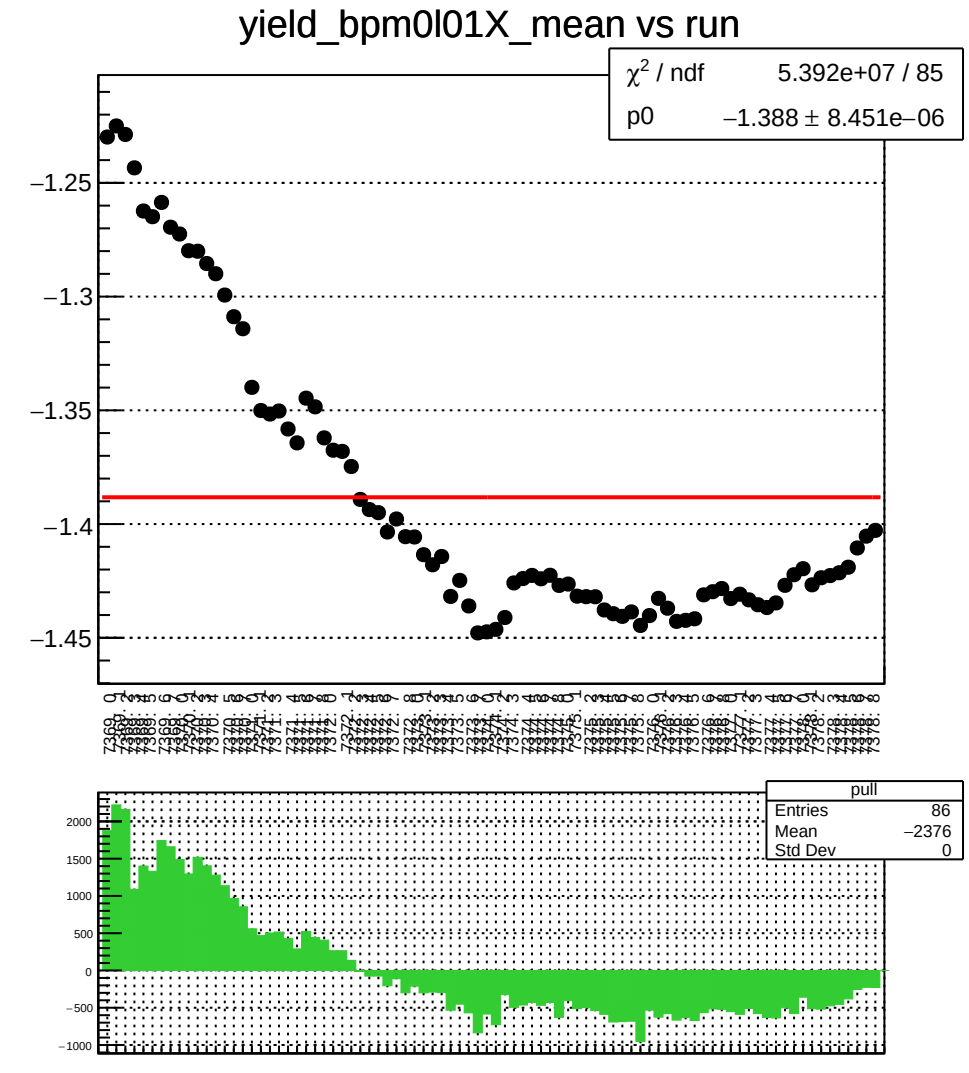

yield_bpm0i01aX_mean vs run
χ² / ndf 1.115e+07 / 85
p0 −1.643 ± 4.426e−06
−1.62
−1.63
−1.64
−1.65
−1.66
−1.67
pull
Entries 86
Mean −1519
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

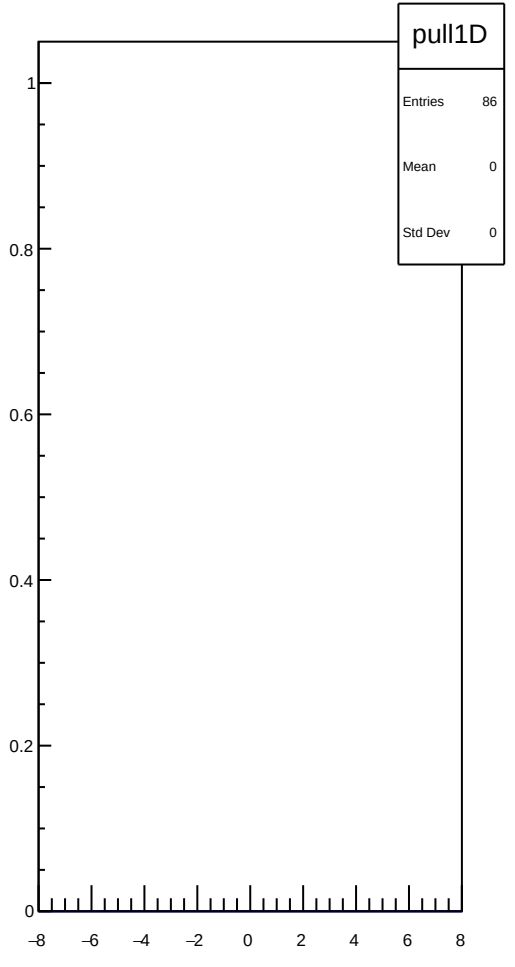

yield_bpm0i01aX_rms vs run
χ² / ndf 1.546e+04 / 85
p0 0.004043 ± 3.13e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

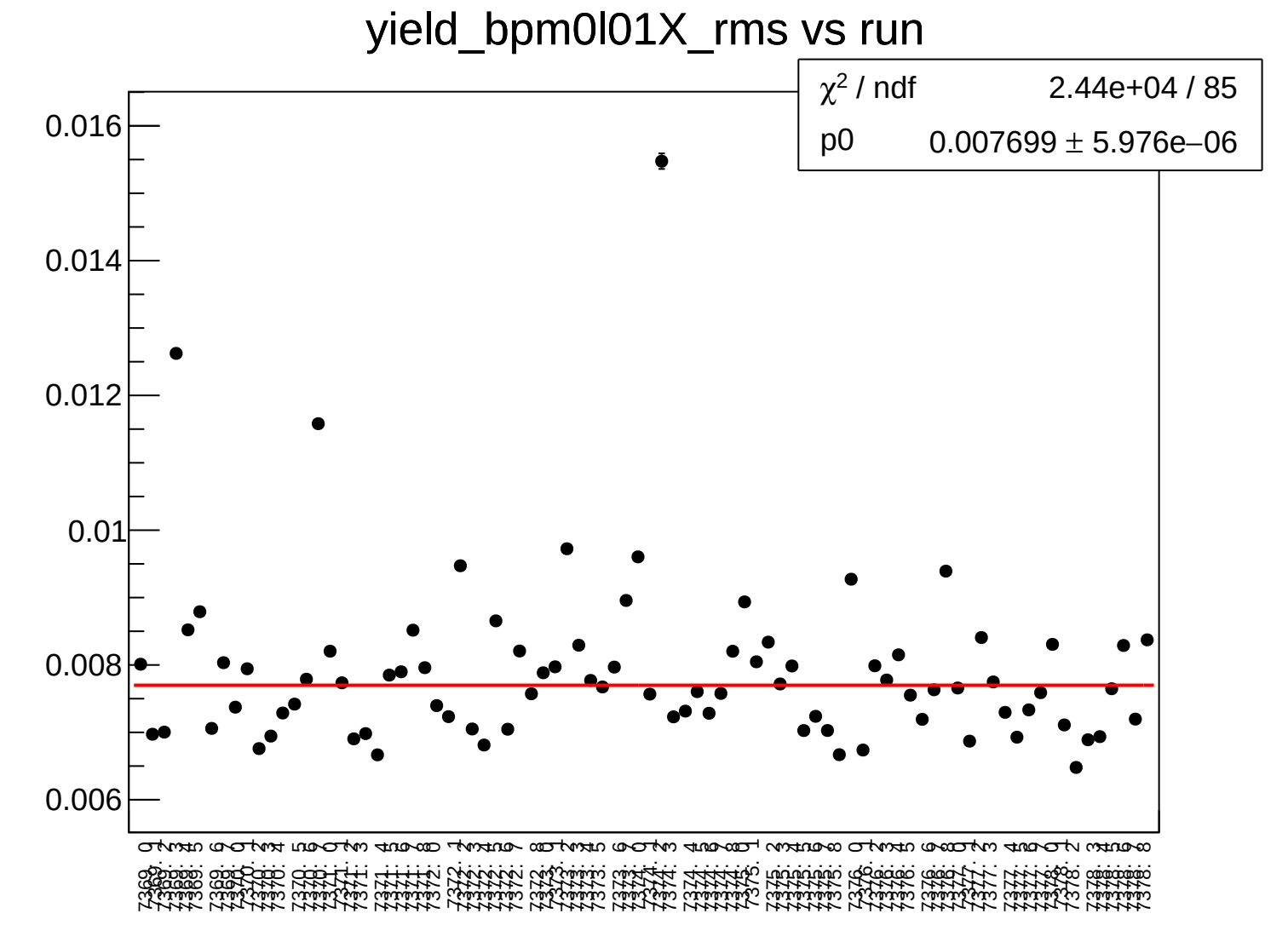

yield_bpm0i01aY_mean vs run
χ² / ndf 5.086e+06 / 85
p0 2.631± 3.959e−06
2.655
2.65
2.645
2.64
2.635
2.63
2.625
pull
Entries 86
Mean 1.179e+04
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

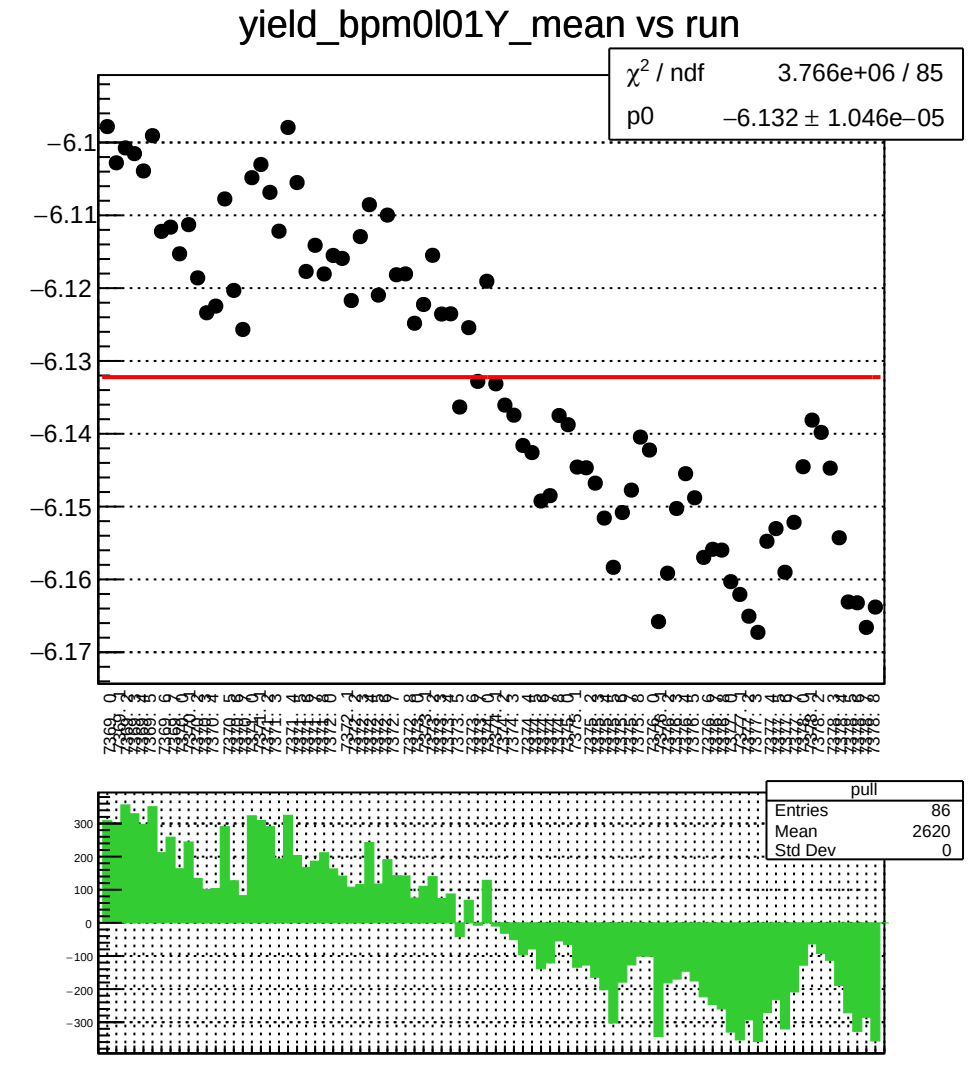

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

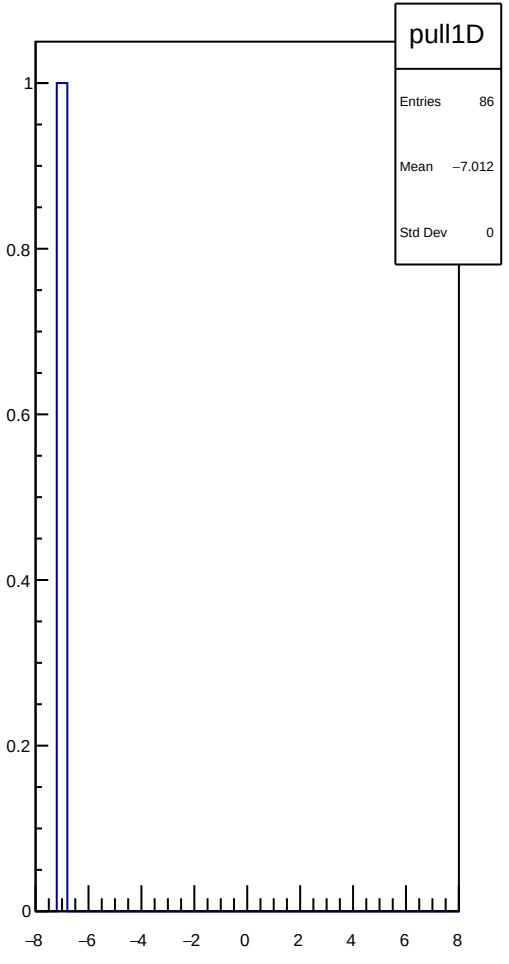

yield_bpm0i01aY_rms vs run
χ² / ndf 7892 / 85
p0 0.003624 ± 2.799e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

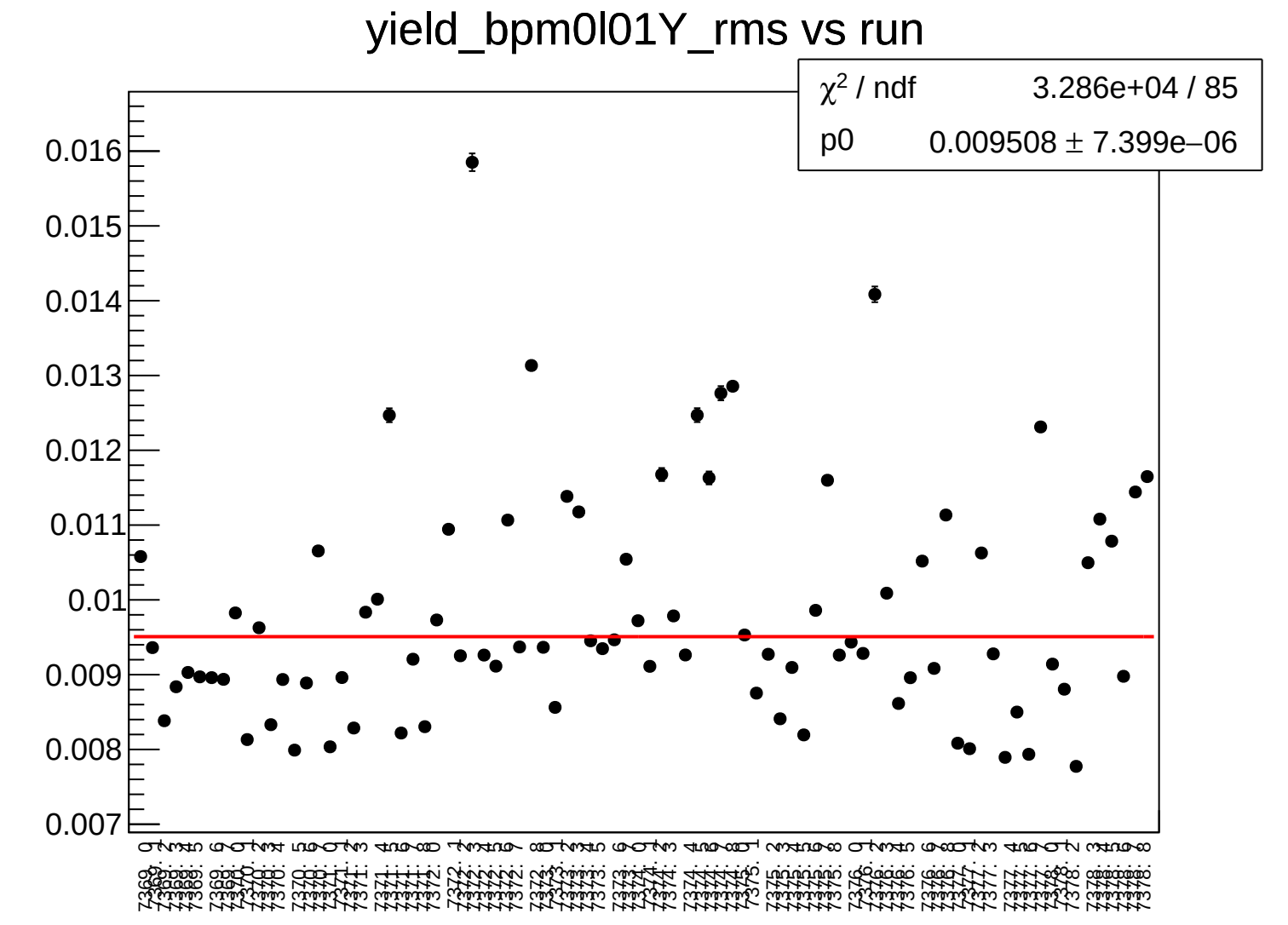

yield_bpm0l01X_mean vs run
χ² / ndf 5.392e+07 / 85
p0 −1.388 ± 8.451e−06
−1.25
−1.3
−1.35
−1.4
−1.45
pull
Entries 86
Mean −2376
Std Dev 0
2000
1500
1000
500
0
−500
−1000

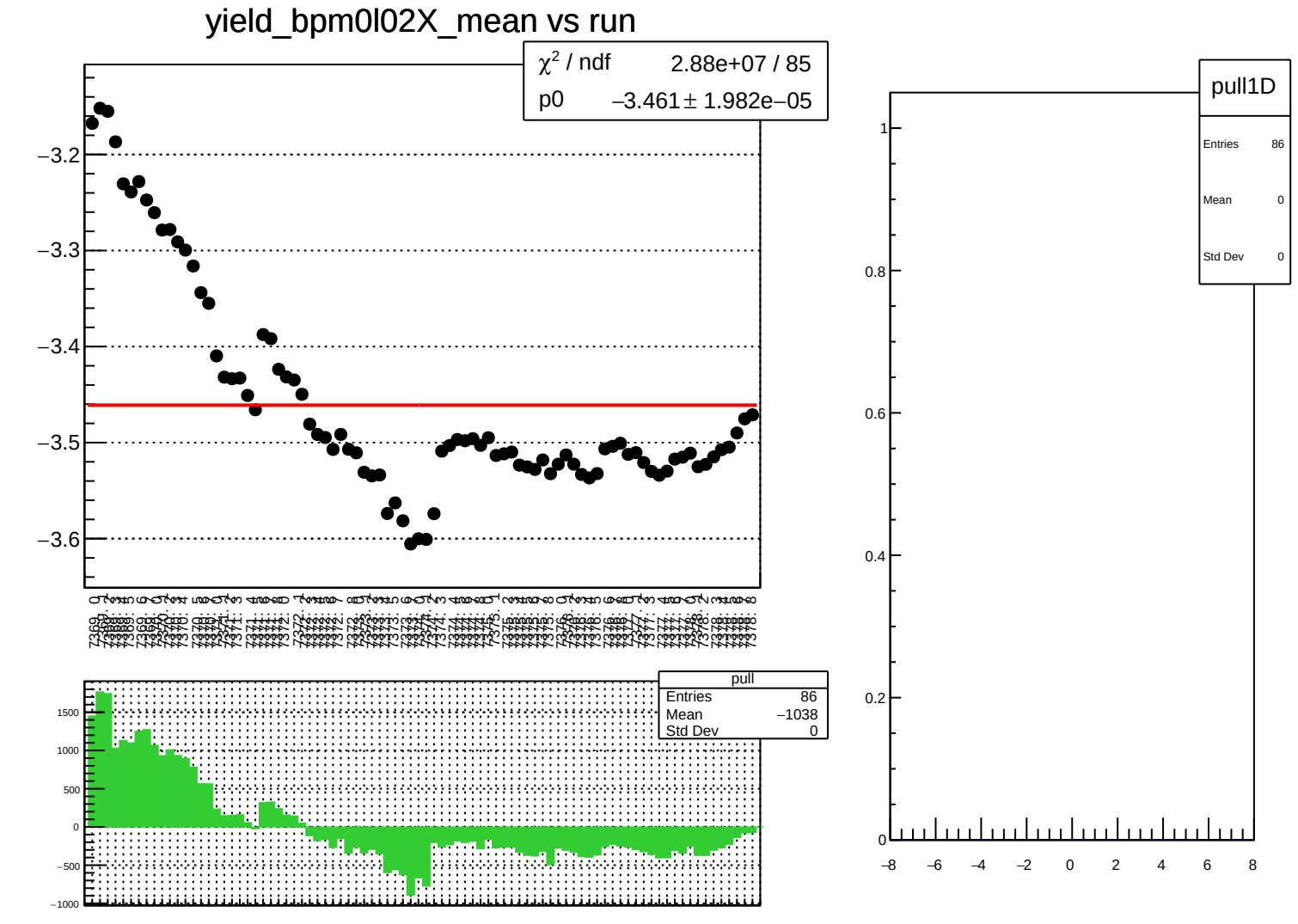

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

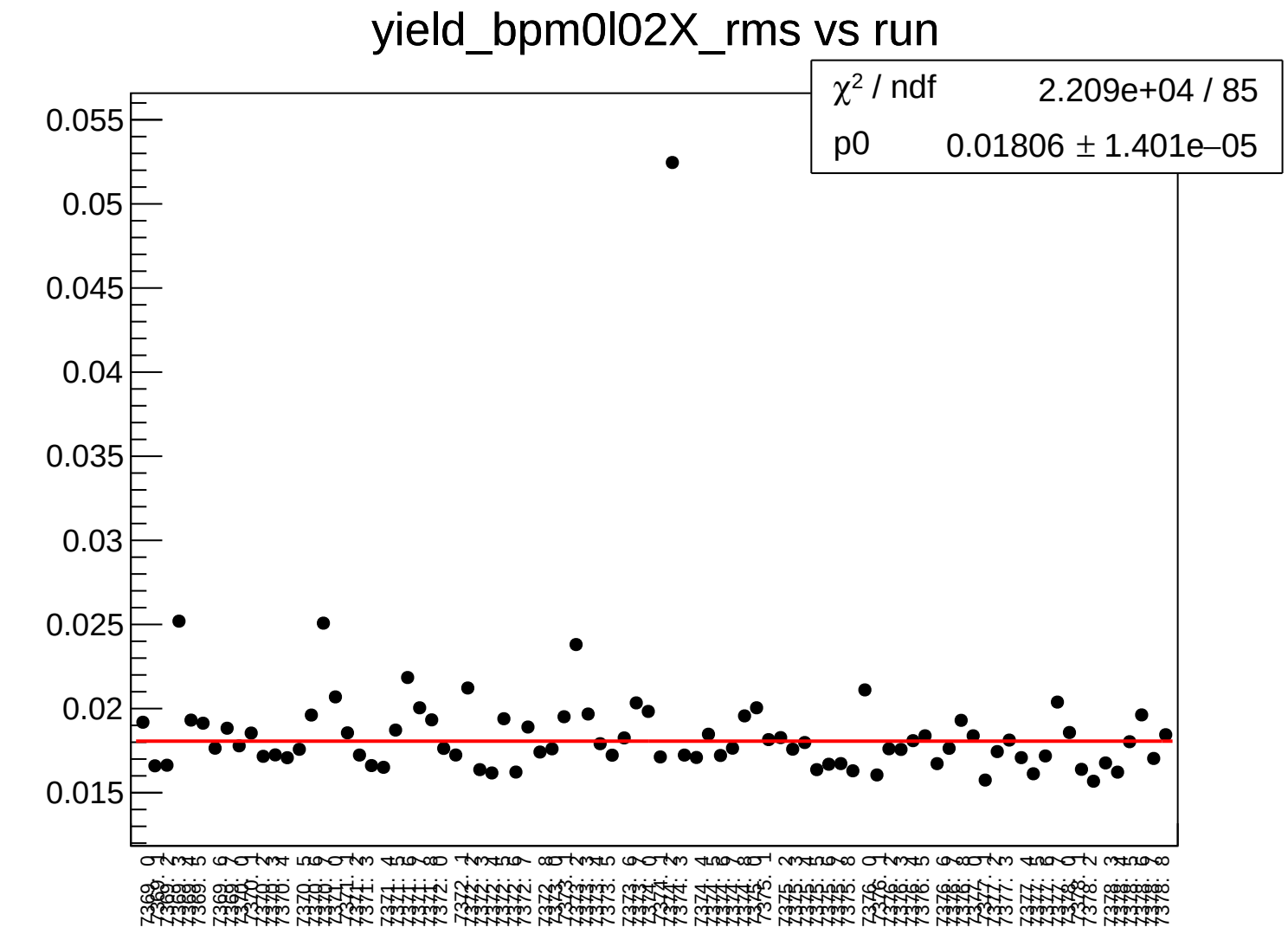

yield_bpm0l01X_rms vs run
χ² / ndf 2.44e+04 / 85
p0 0.007699 ± 5.976e−06
0.016
0.014
0.012
0.01
0.008
0.006

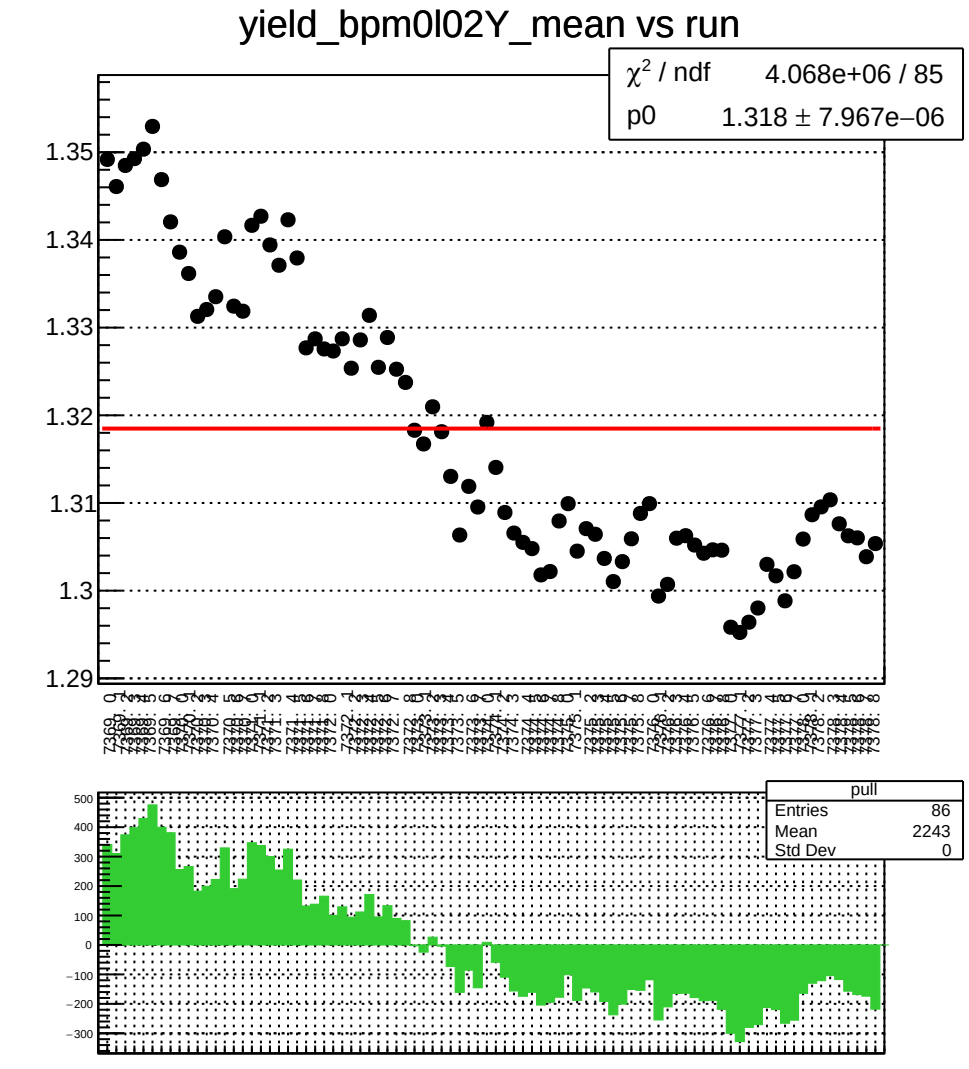

yield_bpm0l01Y_mean vs run
χ² / ndf 3.766e+06 / 85
p0 −6.132 ± 1.046e−05
−6.1
−6.11
−6.12
−6.13
−6.14
−6.15
−6.16
−6.17
pull
Entries 86
Mean 2620
Std Dev 0
300
200
100
0
−100
−200
−300

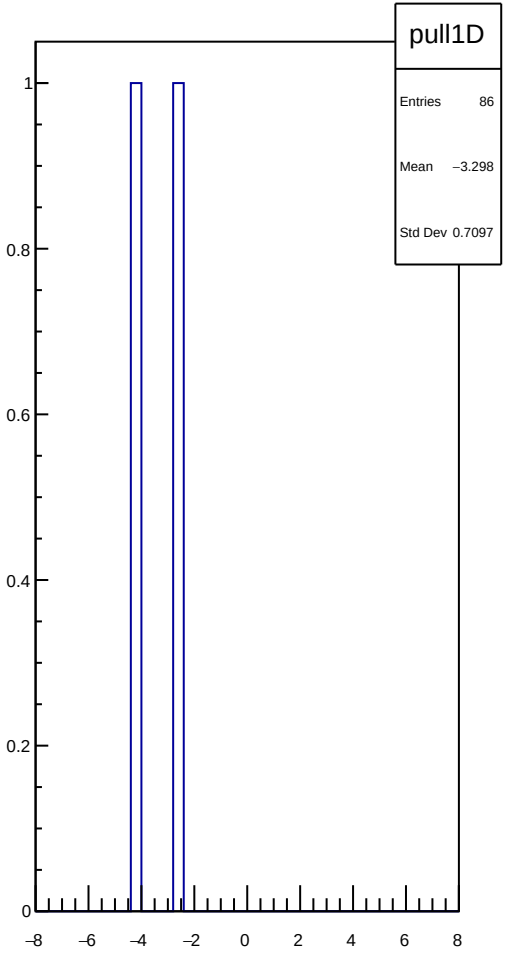

pull1D
Entries 86
Mean −7.012
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

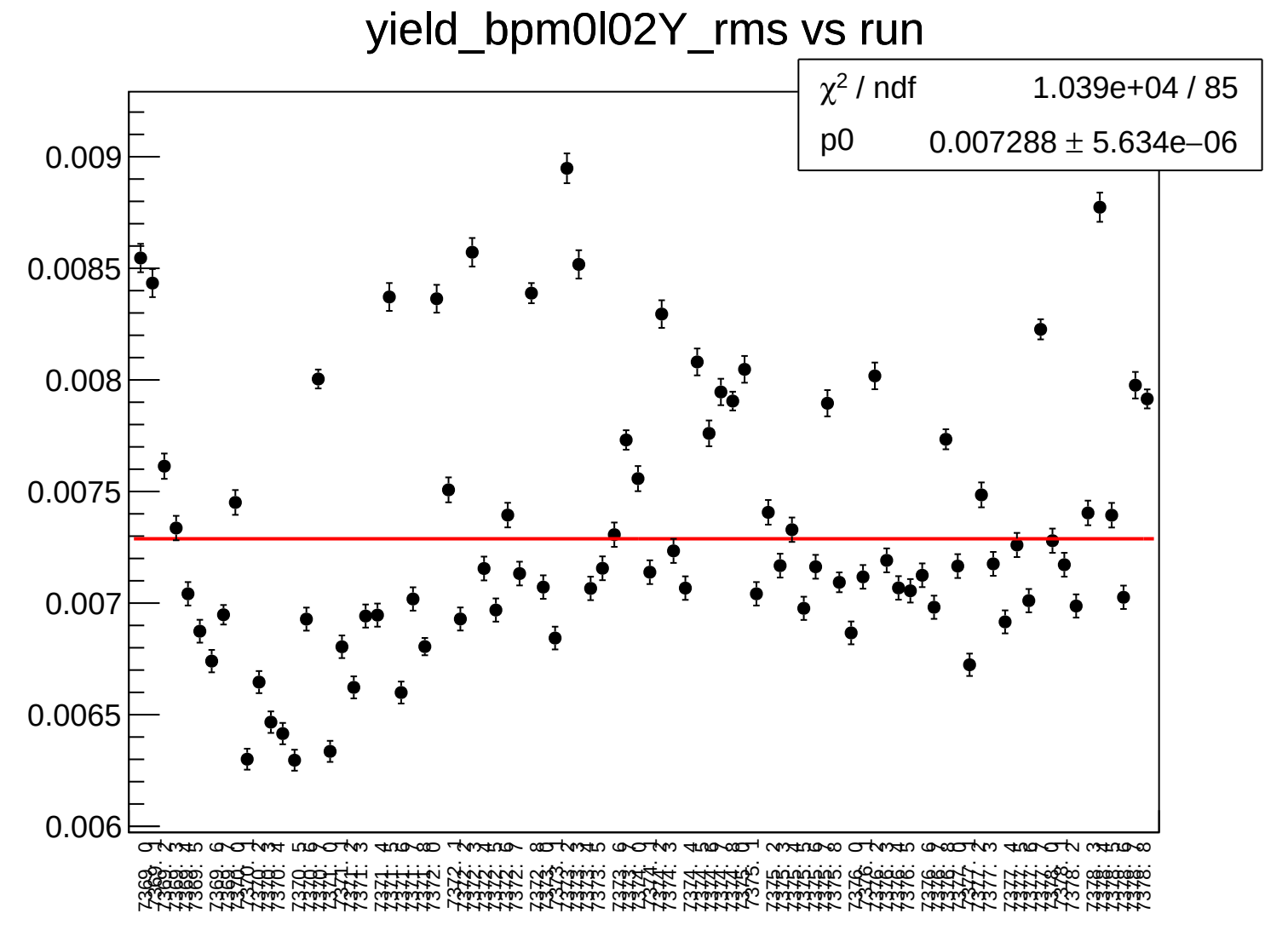

yield_bpm0l01Y_rms vs run
χ² / ndf 3.286e+04 / 85
p0 0.009508 ± 7.399e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

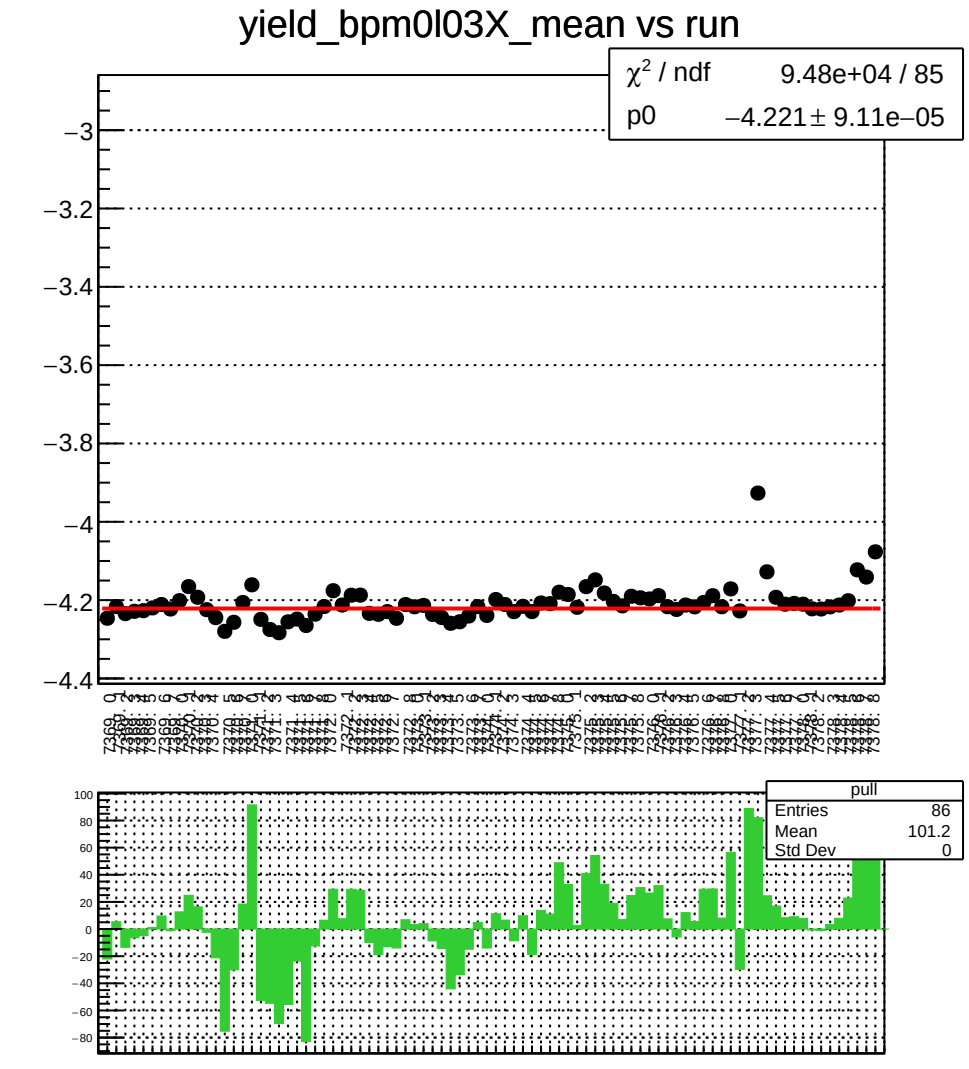

yield_bpm0l02X_mean vs run
χ² / ndf 2.88e+07 / 85
p0 −3.461 ± 1.982e−05
−3.2
−3.3
−3.4
−3.5
−3.6
pull
Entries 86
Mean −1038
Std Dev 0
1500
1000
500
0
−500
−1000
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

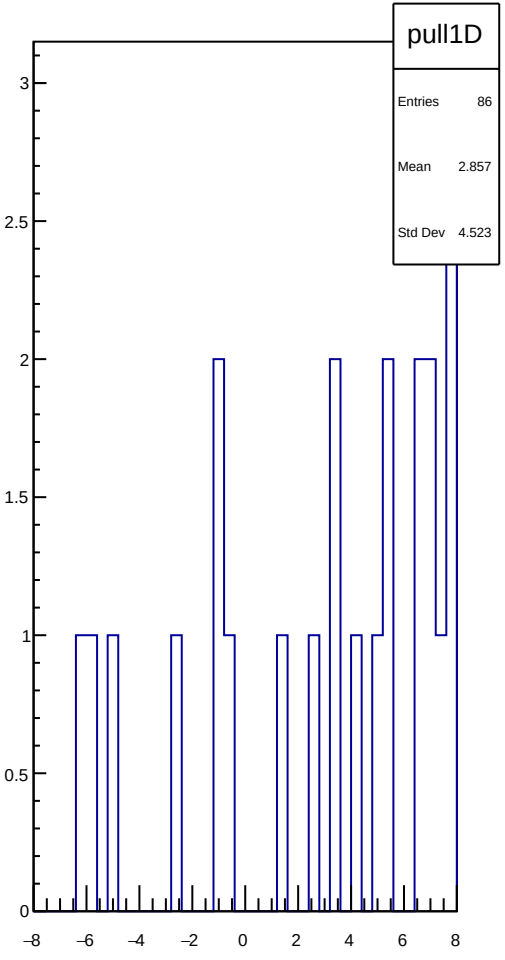

yield_bpm0l02X_rms vs run
χ² / ndf 2.209e+04 / 85
p0 0.01806 ± 1.401e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

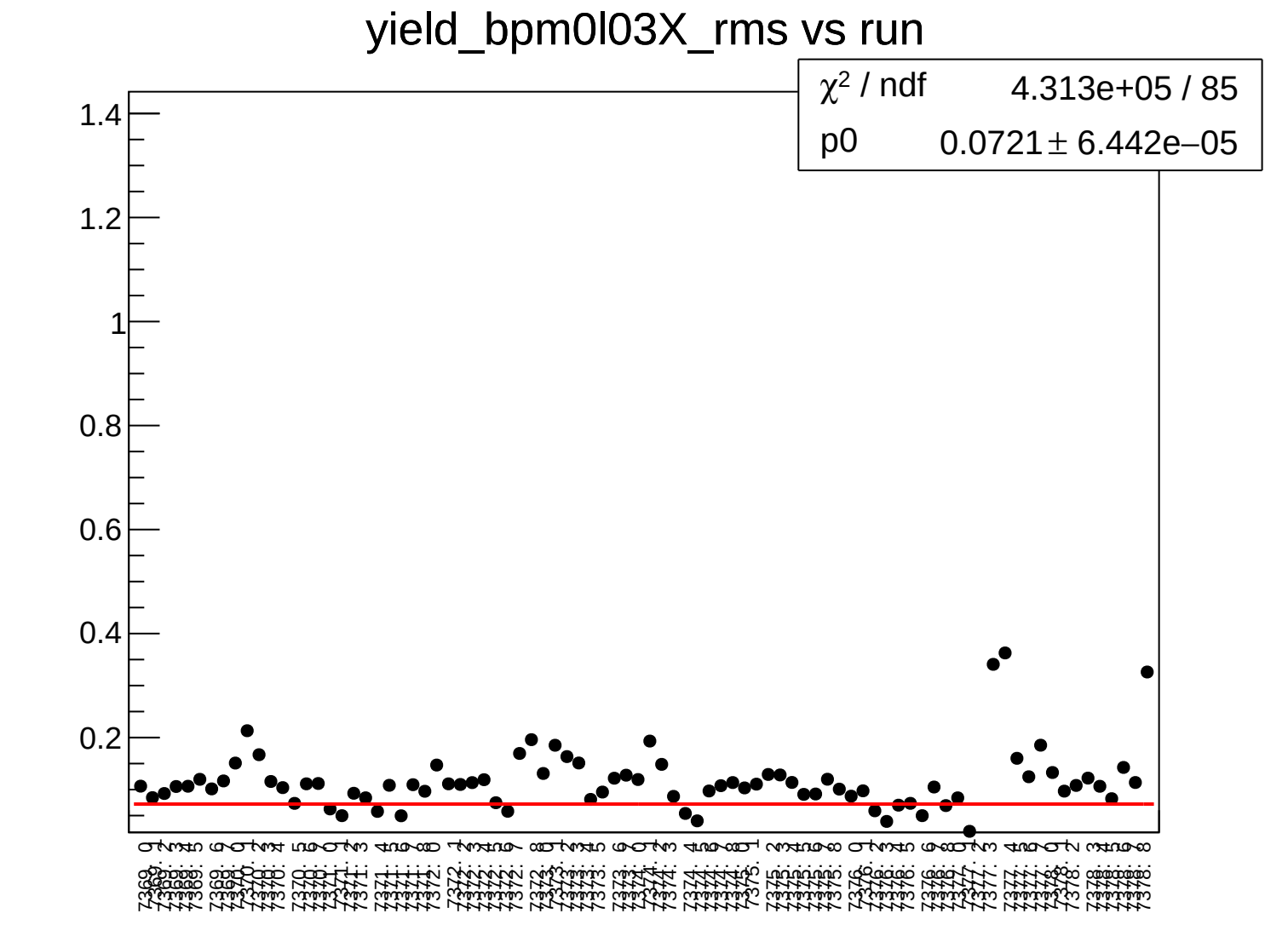

yield_bpm0l02Y_mean vs run
χ² / ndf 4.068e+06 / 85
p0 1.318 ± 7.967e−06
1.35
1.34
1.33
1.32
1.31
1.3
1.29
pull
Entries 86
Mean 2243
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

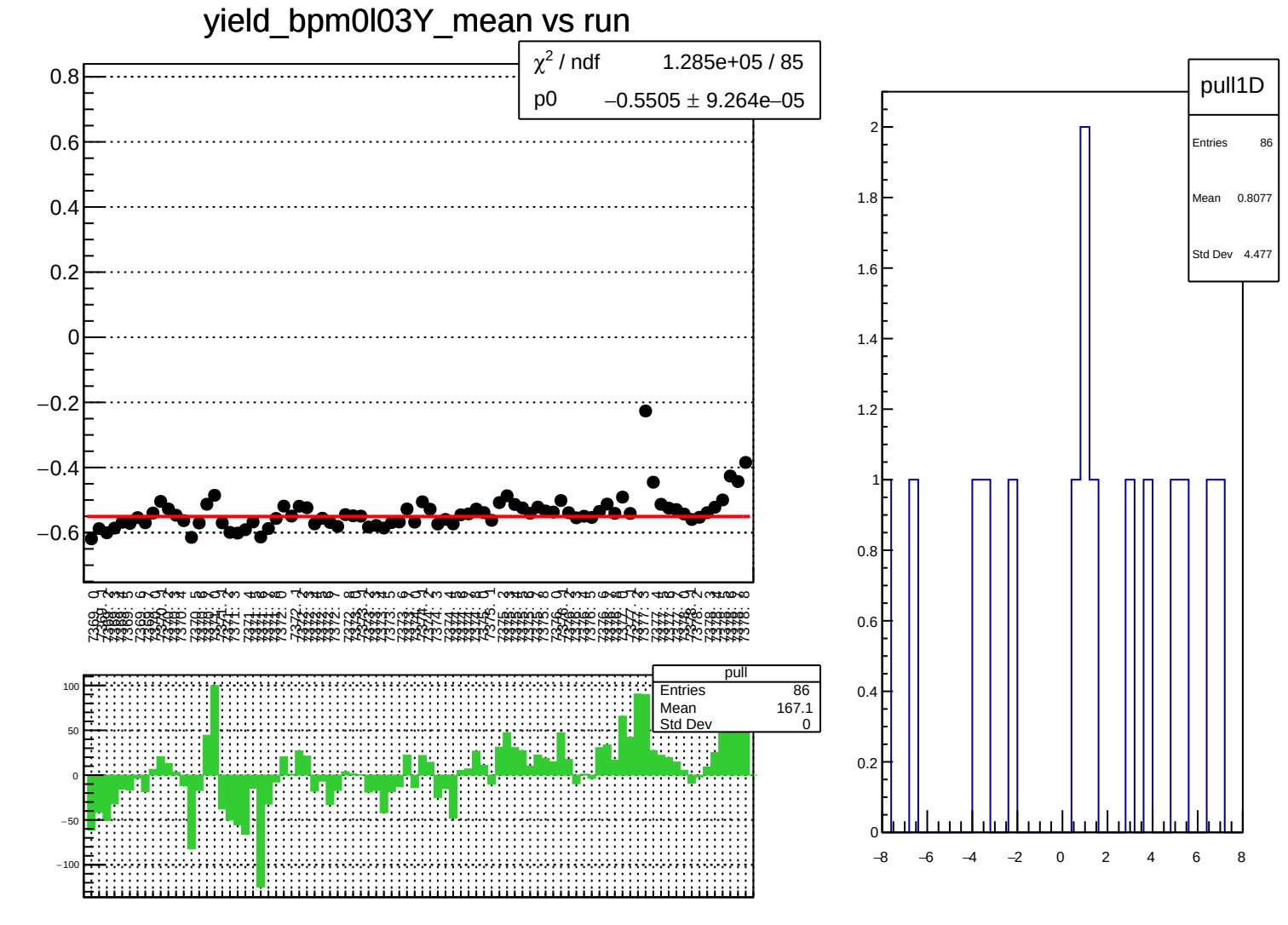

pull1D
Entries 86
Mean −3.298
Std Dev 0.7097
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

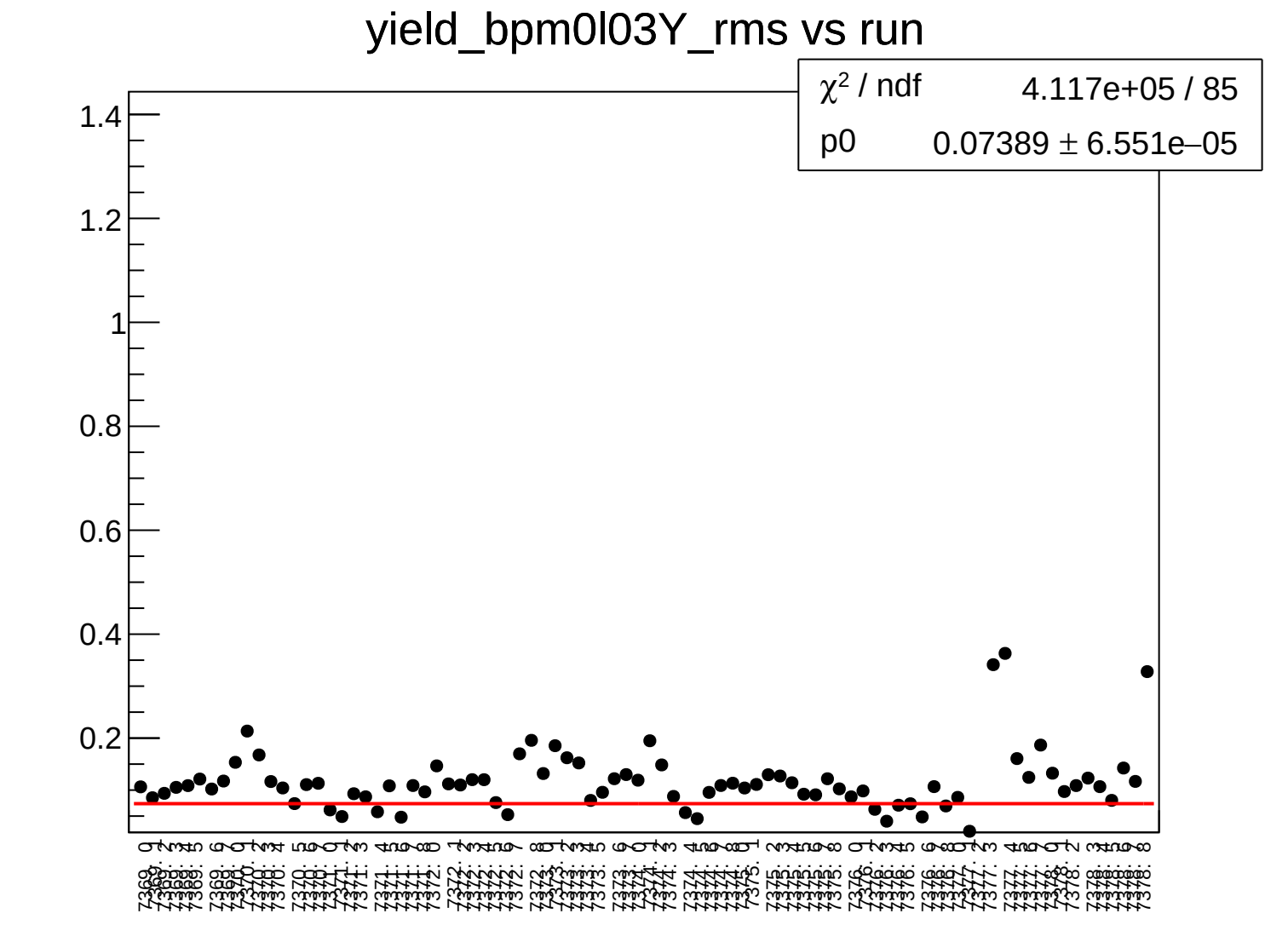

yield_bpm0l02Y_rms vs run
χ² / ndf 1.039e+04 / 85
p0 0.007288 ± 5.634e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

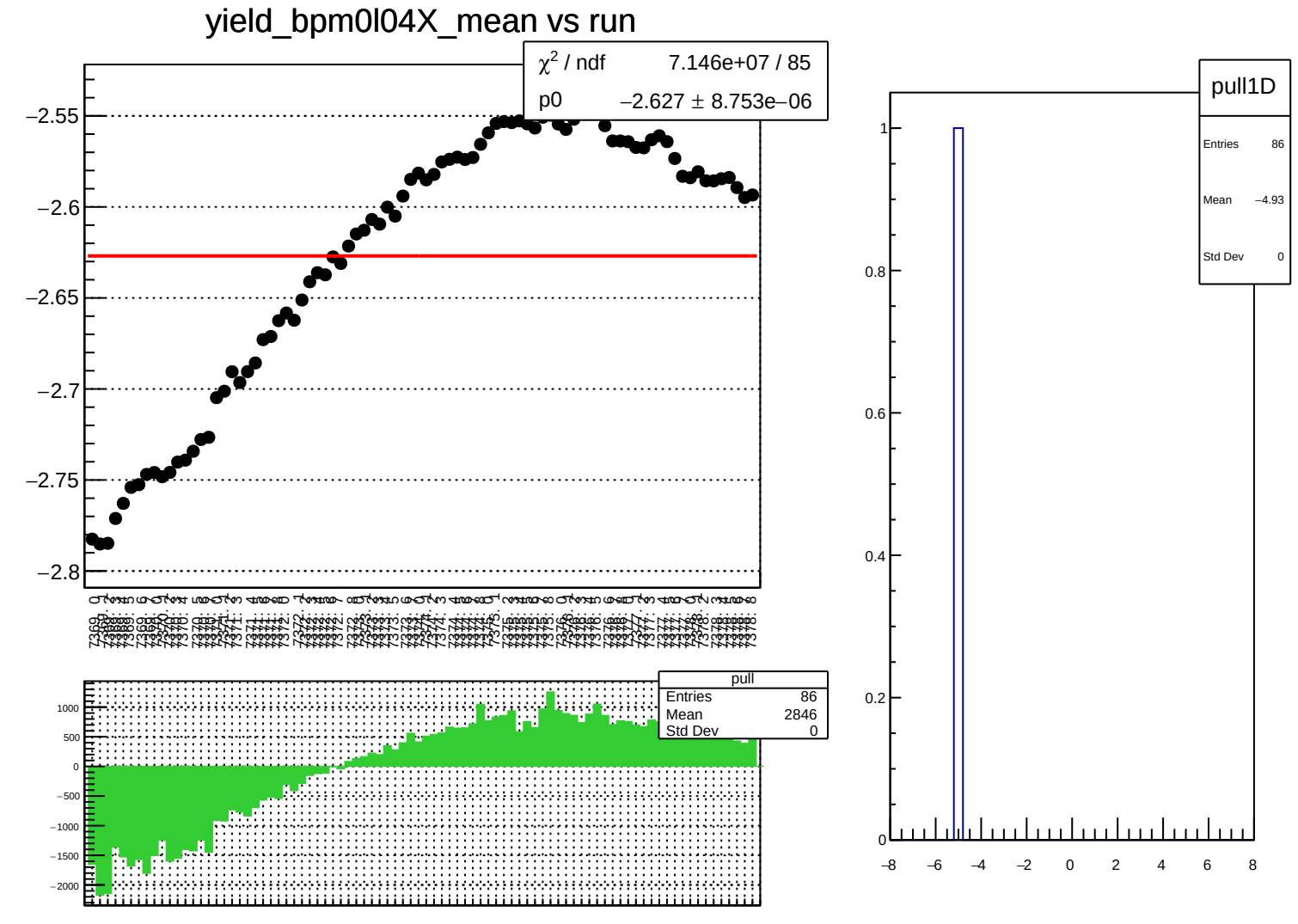

yield_bpm0l03X_mean vs run
χ² / ndf 9.48e+04 / 85
p0 −4.221 ± 9.11e−05
pull
Entries 86
Mean 101.2
Std Dev 0

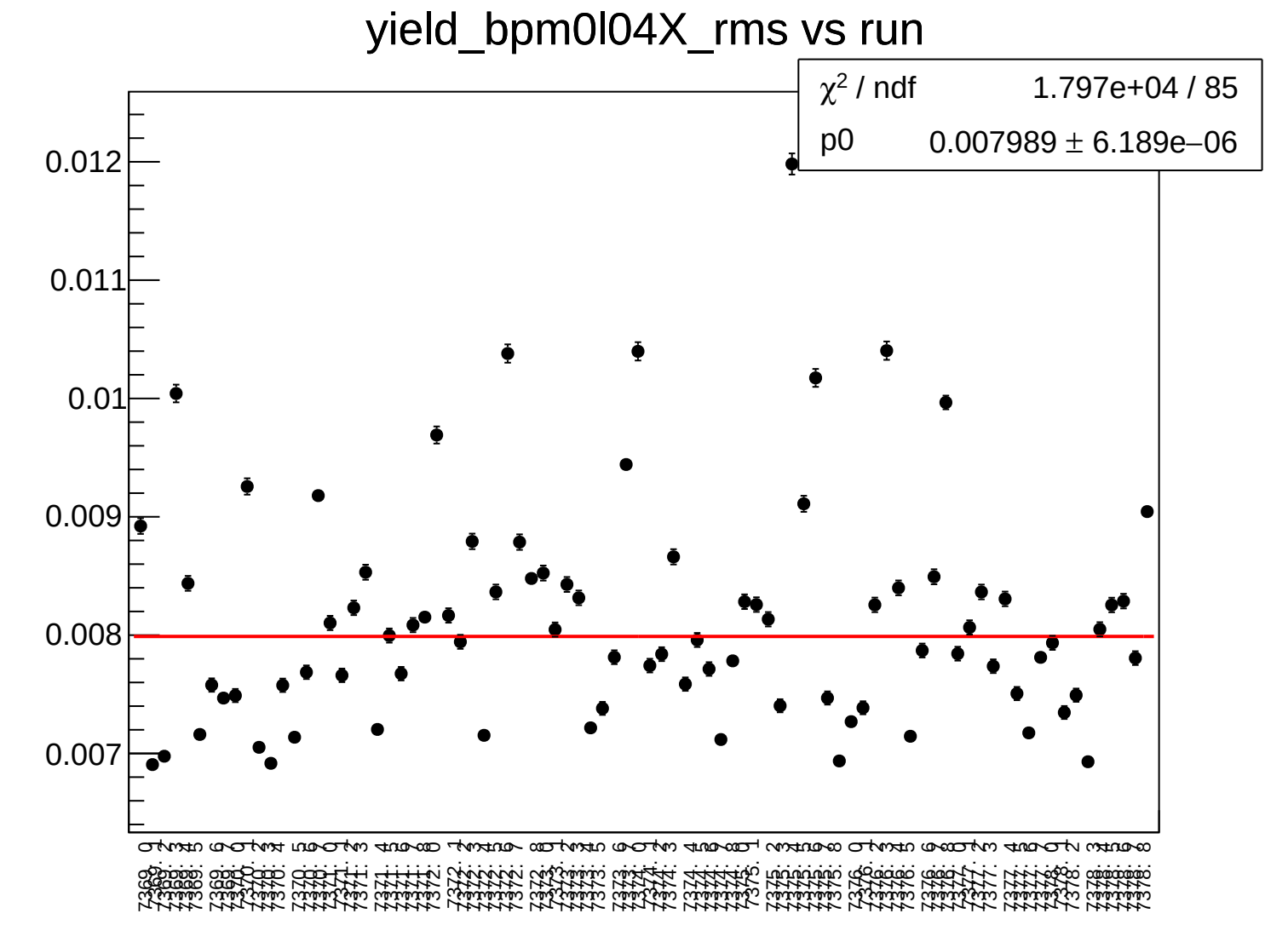

pull1D
Entries 86
Mean 2.857
Std Dev 4.523

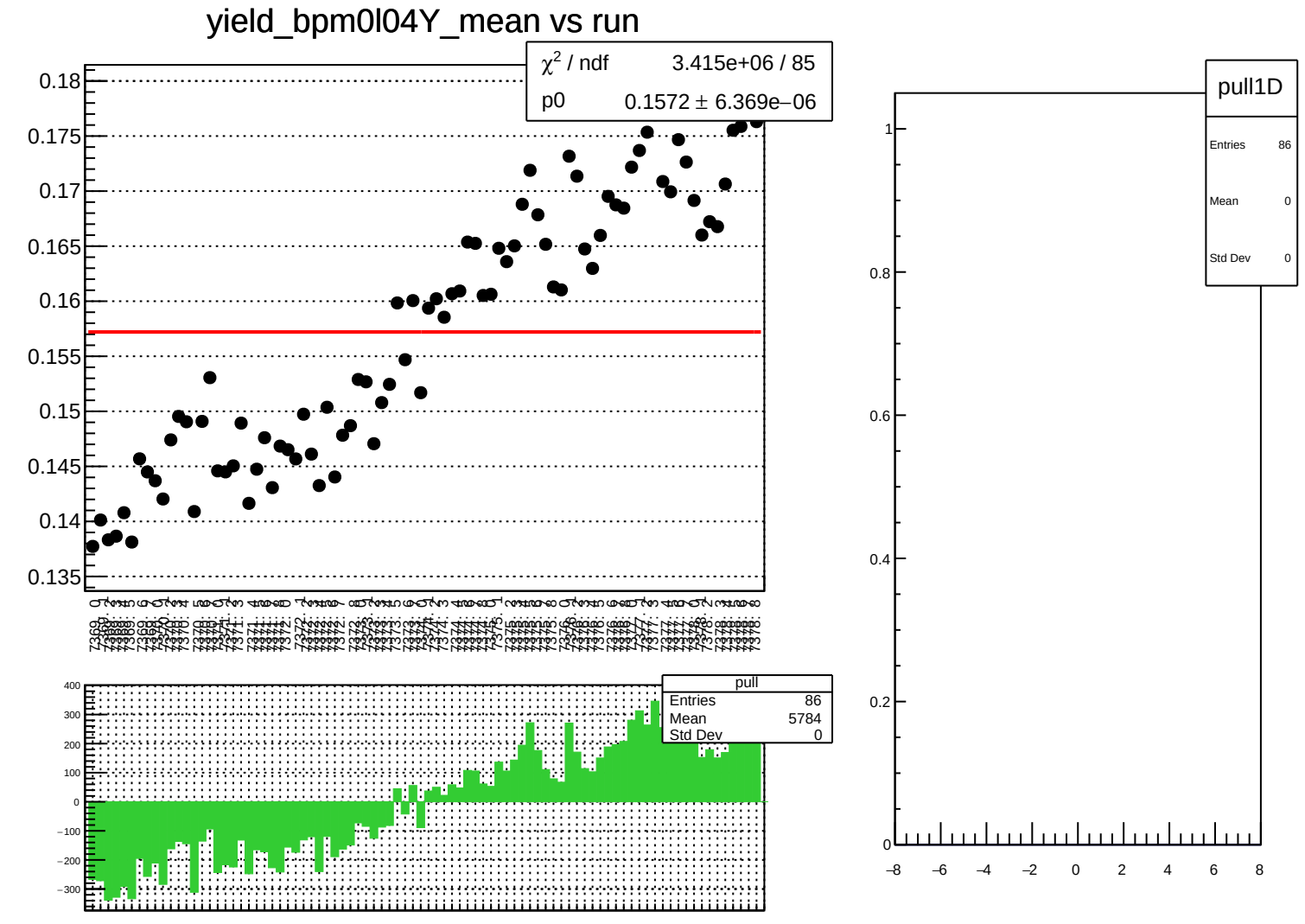

yield_bpm0l03X_rms vs run
χ² / ndf 4.313e+05 / 85
p0 0.0721 ± 6.442e−05
1.4
1.2
1
0.8
0.6
0.4
0.2

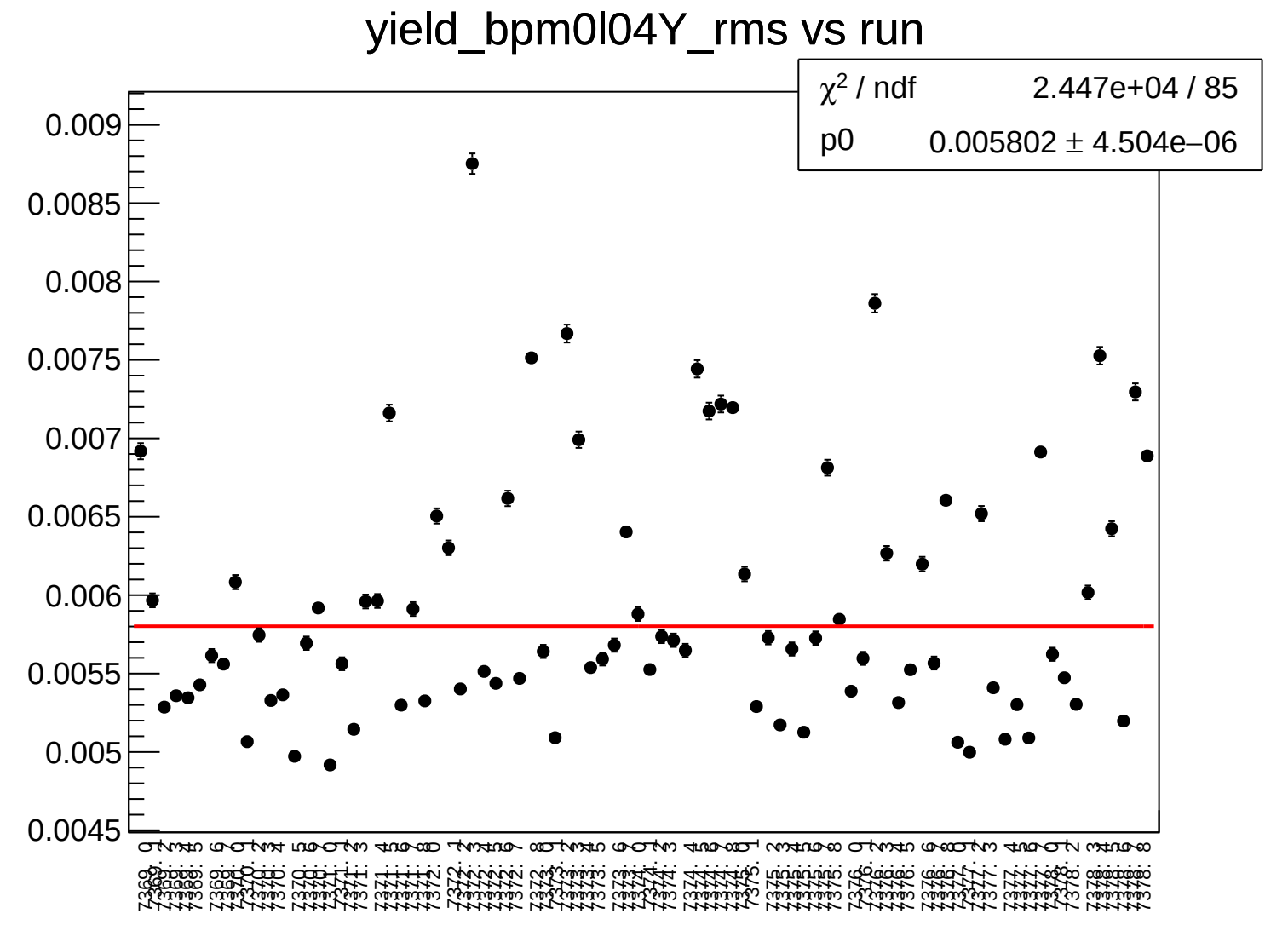

yield_bpm0l03Y_mean vs run
χ² / ndf 1.285e+05 / 85
p0 −0.5505 ± 9.264e−05
pull
Entries 86
Mean 167.1
Std Dev 0
pull1D
Entries 86
Mean 0.8077
Std Dev 4.477

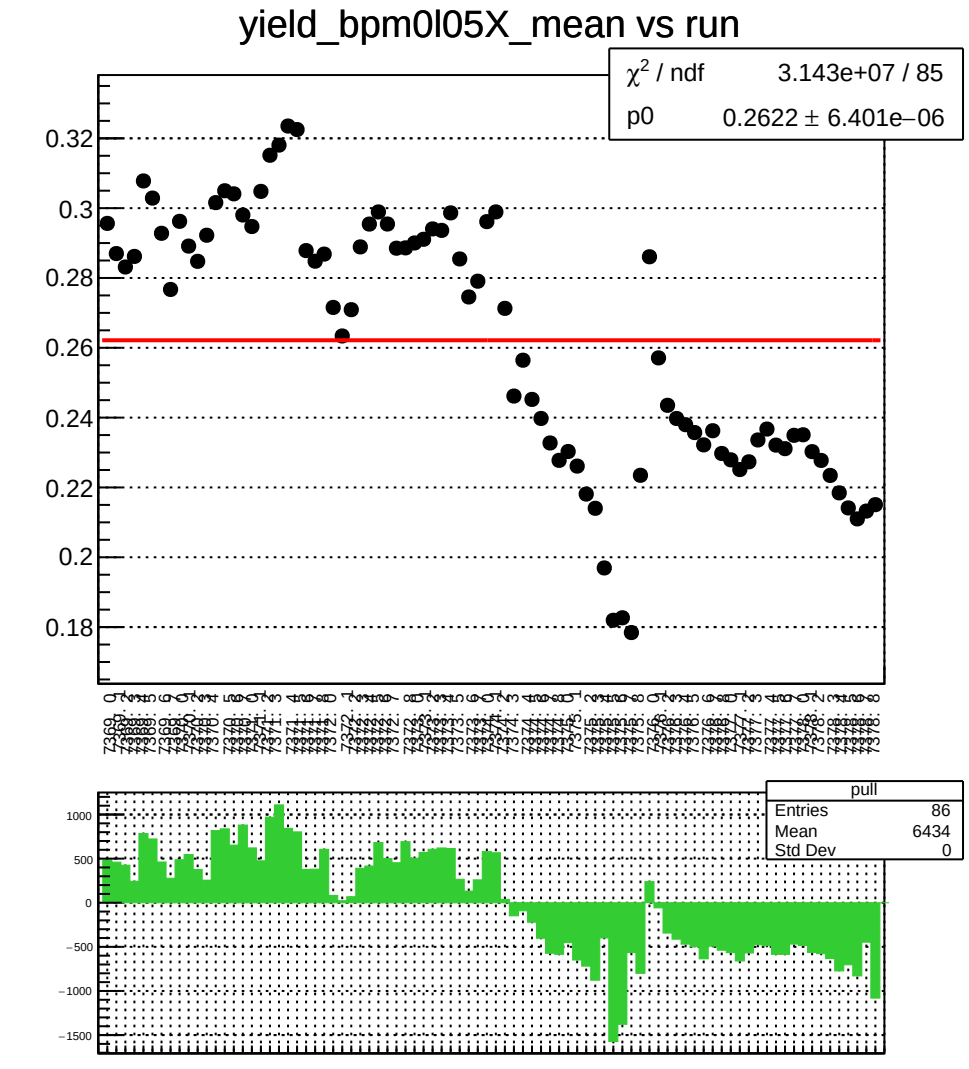

yield_bpm0l03Y_rms vs run
χ² / ndf 4.117e+05 / 85
p0 0.07389 ± 6.551e–05
1.4
1.2
1
0.8
0.6
0.4
0.2

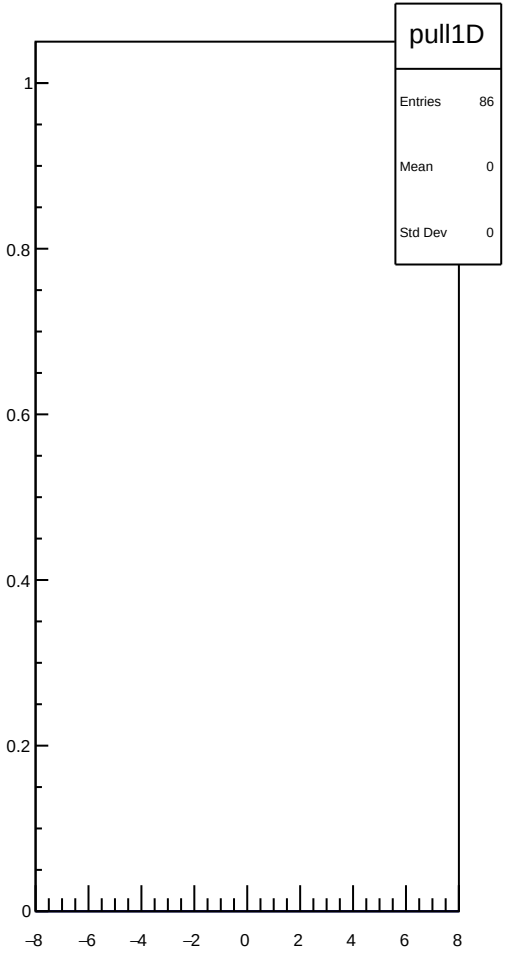

yield_bpm0l04X_mean vs run
χ² / ndf 7.146e+07 / 85
p0 −2.627 ± 8.753e−06
−2.55
−2.6
−2.65
−2.7
−2.75
−2.8
pull
Entries 86
Mean 2846
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 86
Mean −4.93
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

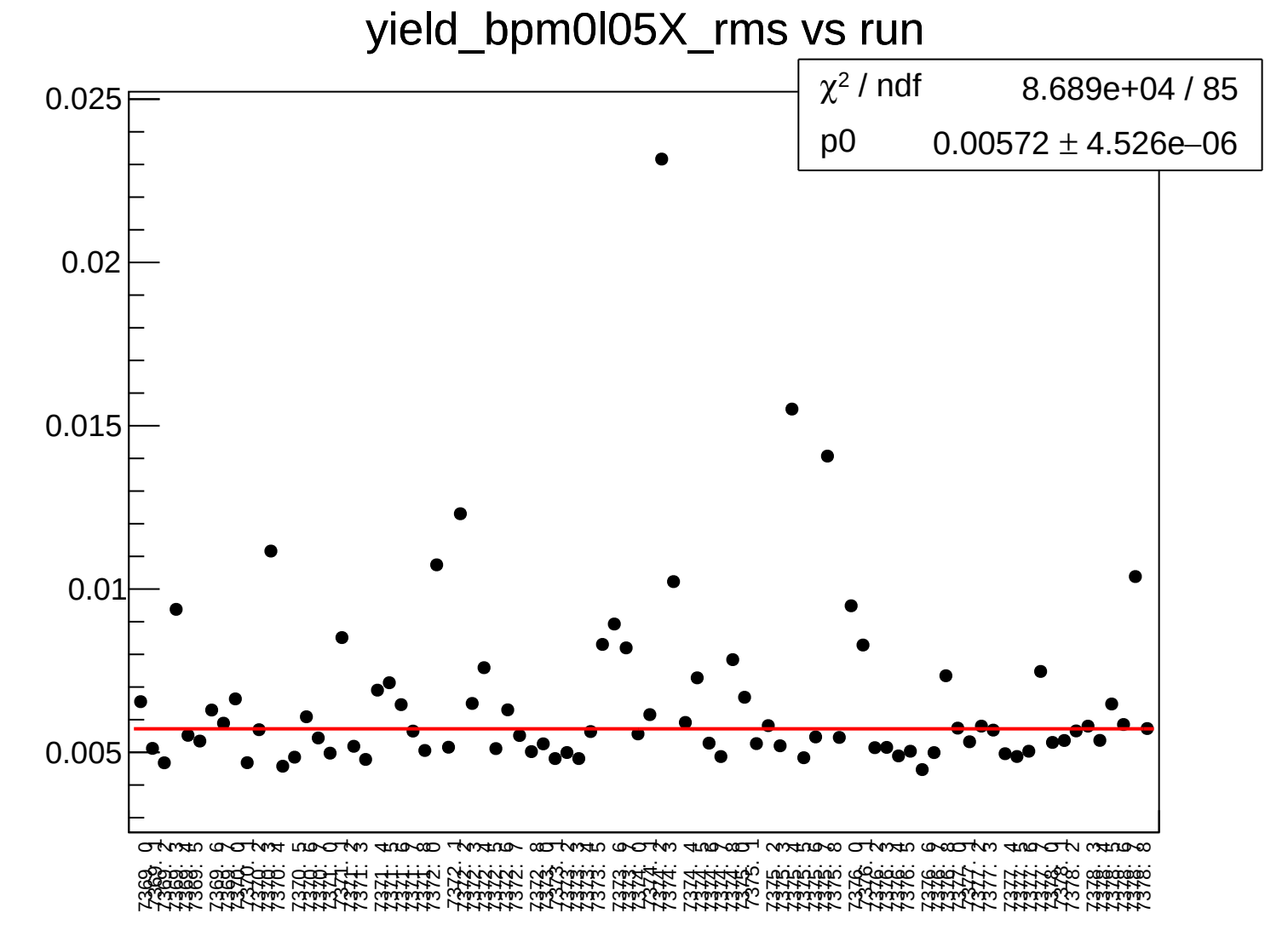

yield_bpm0l04X_rms vs run
χ² / ndf 1.797e+04 / 85
p0 0.007989 ± 6.189e−06
0.012
0.011
0.01
0.009
0.008
0.007

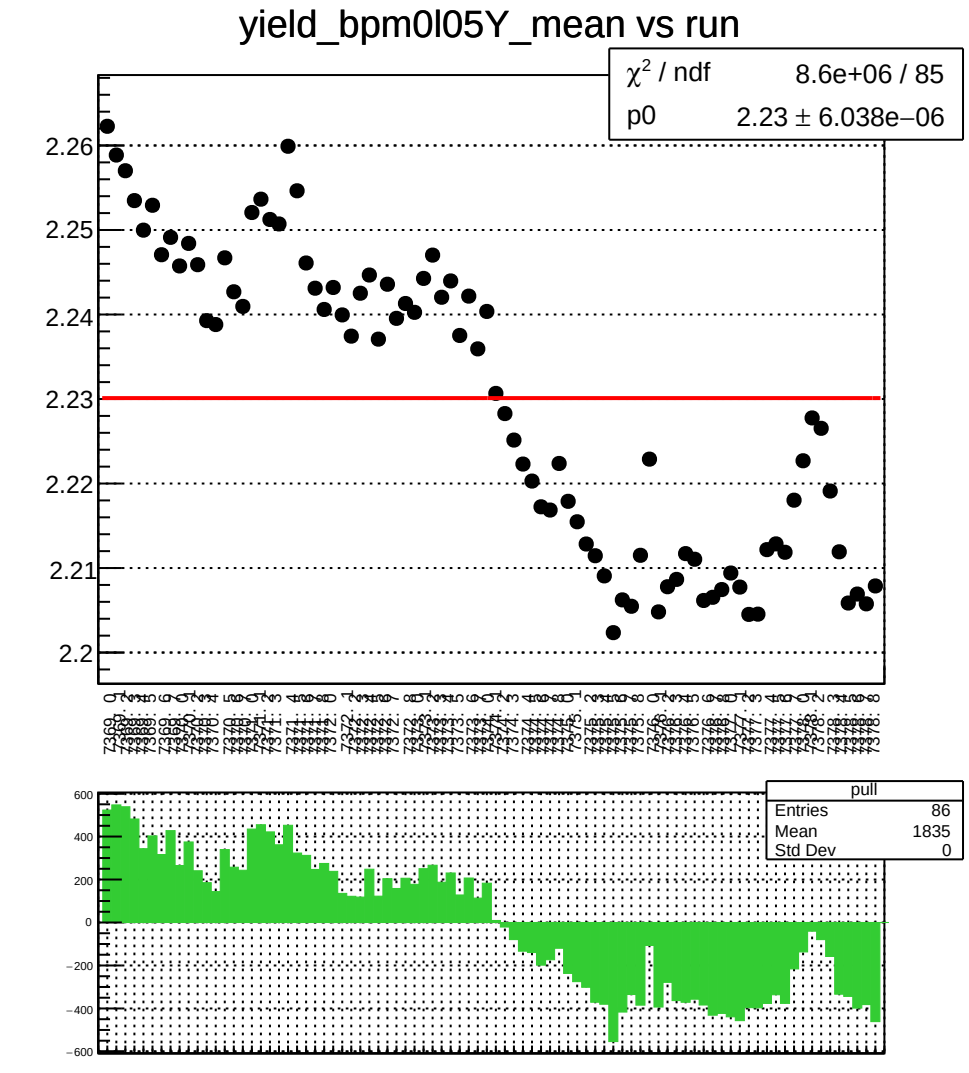

yield_bpm0l04Y_mean vs run
χ² / ndf 3.415e+06 / 85
p0 0.1572 ± 6.369e−06
pull
Entries 86
Mean 5784
Std Dev 0
pull1D
Entries 86
Mean 0
Std Dev 0

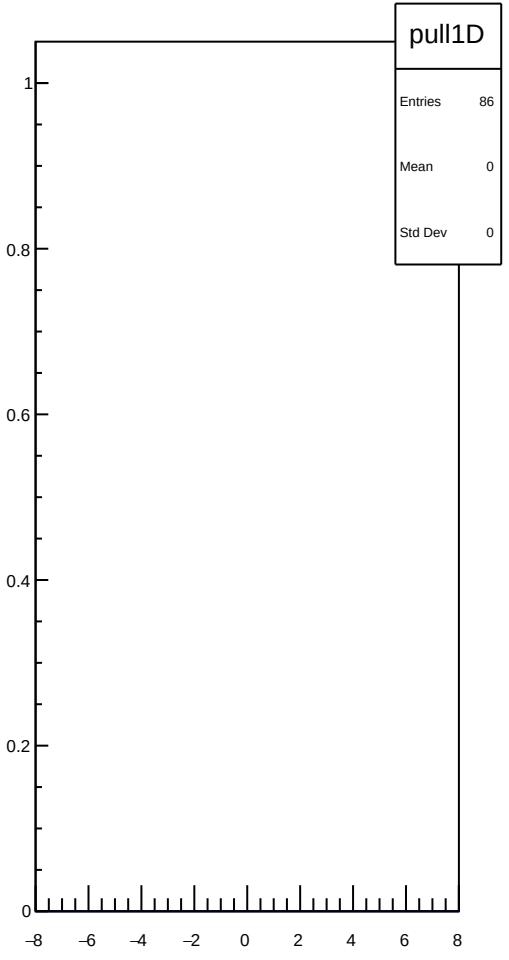

yield_bpm0l04Y_rms vs run
χ² / ndf 2.447e+04 / 85
p0 0.005802 ± 4.504e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

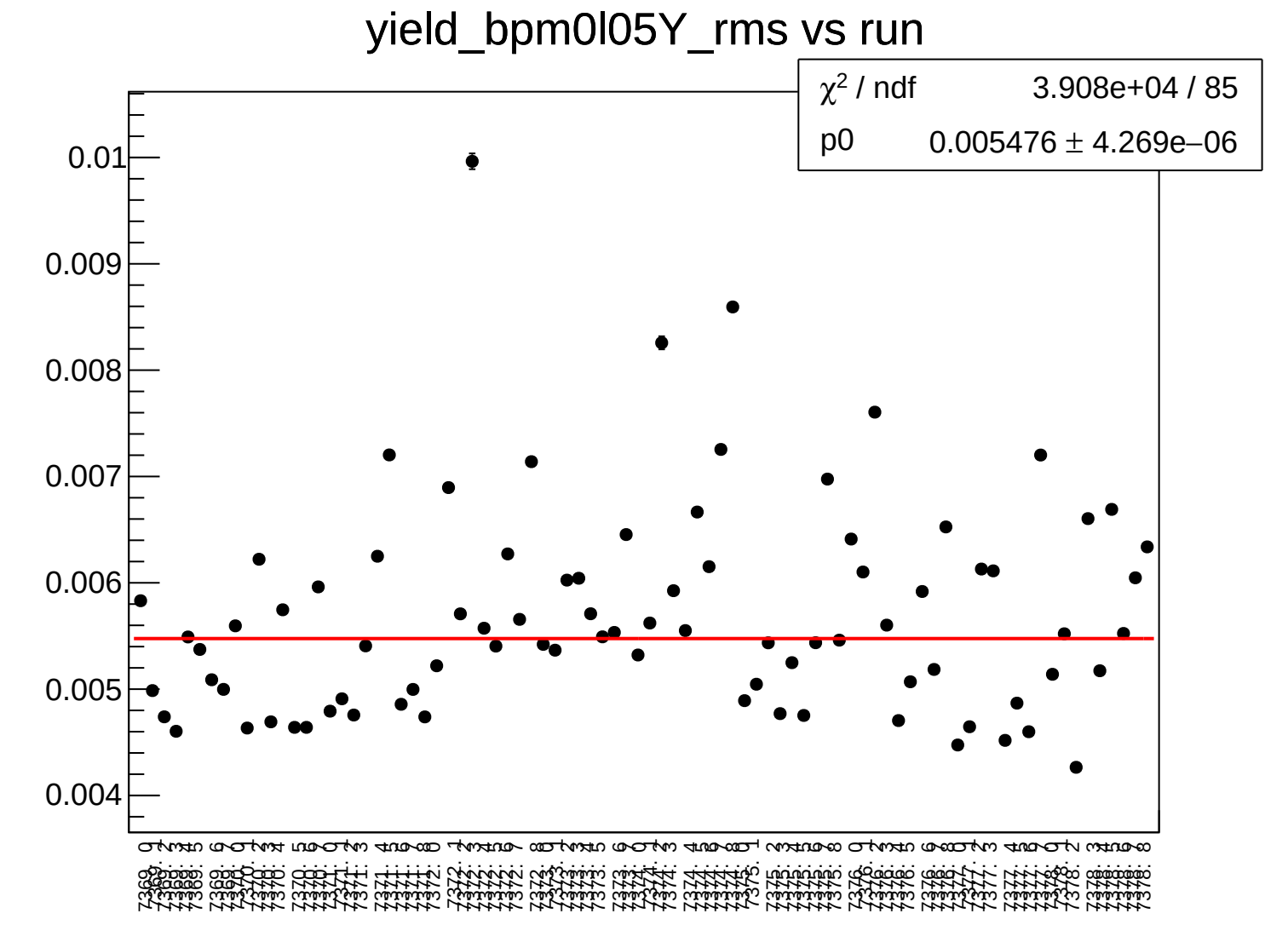

yield_bpm0l05X_mean vs run
χ² / ndf 3.143e+07 / 85
p0 0.2622 ± 6.401e−06
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
pull
Entries 86
Mean 6434
Std Dev 0
1000
500
0
−500
−1000
−1500

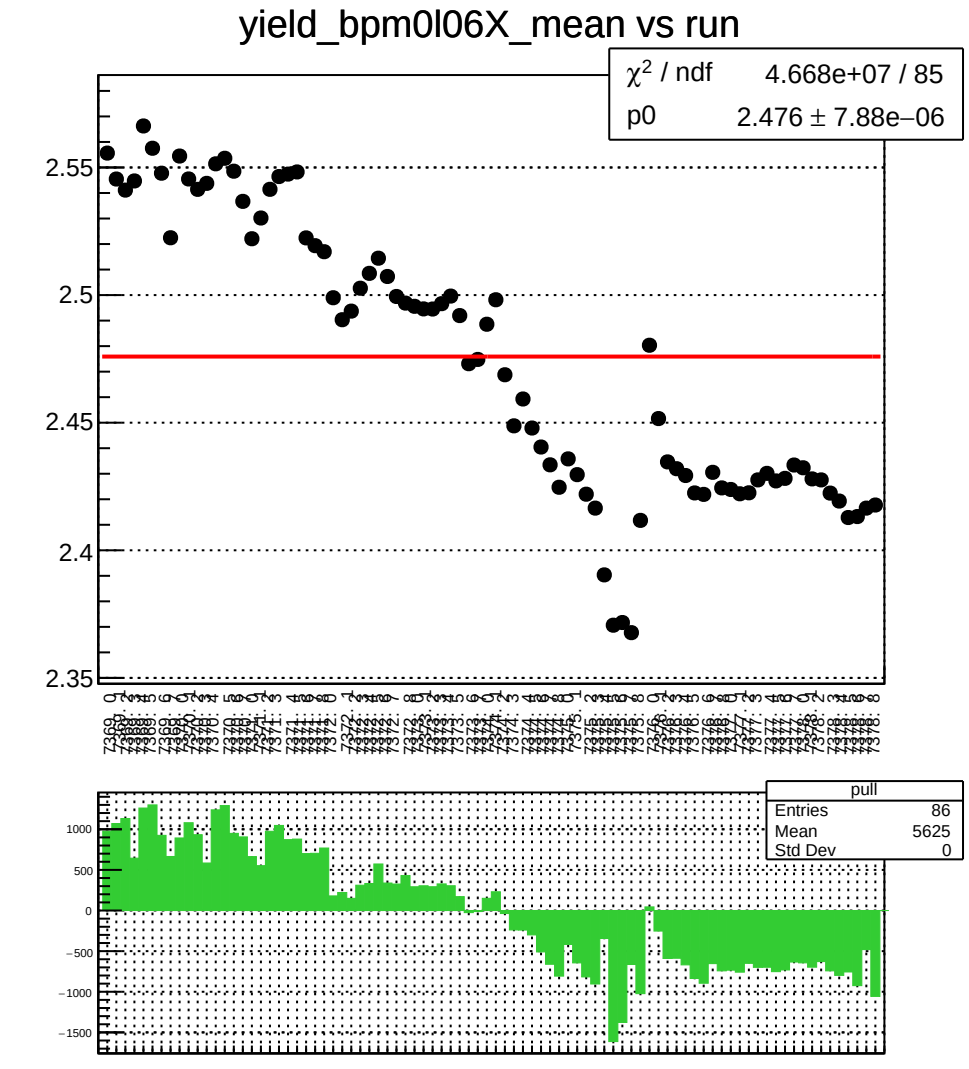

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

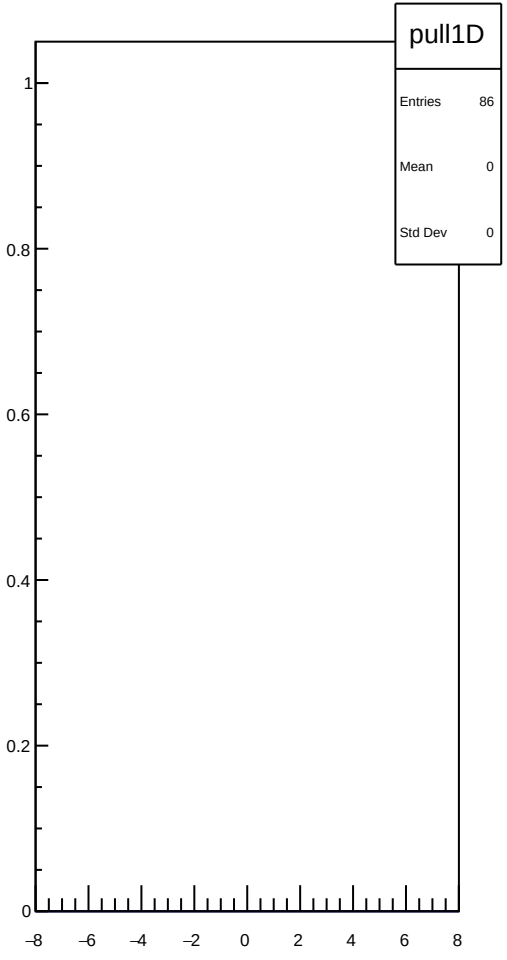

yield_bpm0l05X_rms vs run
χ² / ndf 8.689e+04 / 85
p0 0.00572 ± 4.526e–06
0.025
0.02
0.015
0.01
0.005

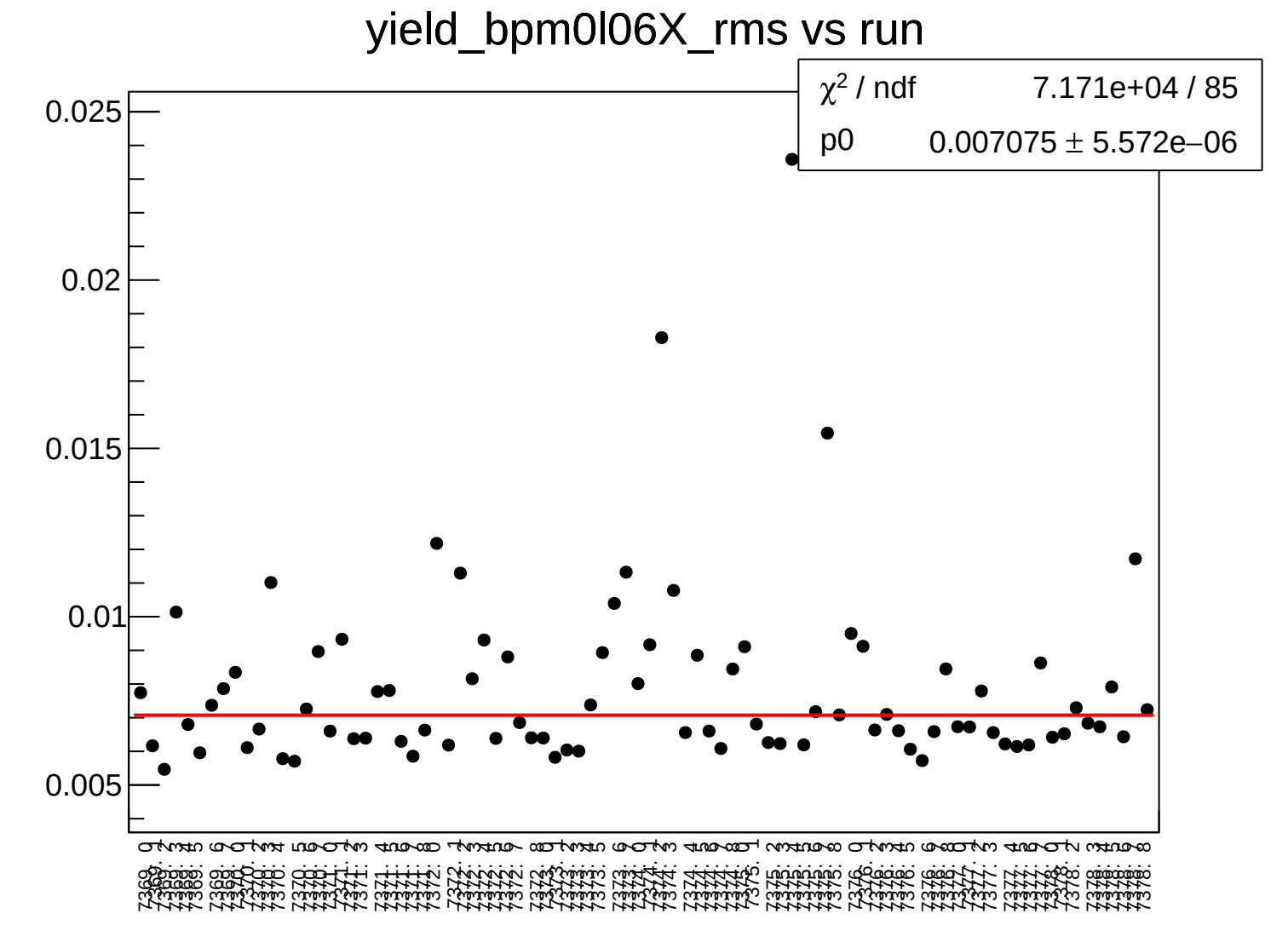

yield_bpm0l05Y_mean vs run
χ² / ndf 8.6e+06 / 85
p0 2.23 ± 6.038e−06
2.26
2.25
2.24
2.23
2.22
2.21
2.2
pull
Entries 86
Mean 1835
Std Dev 0
600
400
200
0
−200
−400
−600

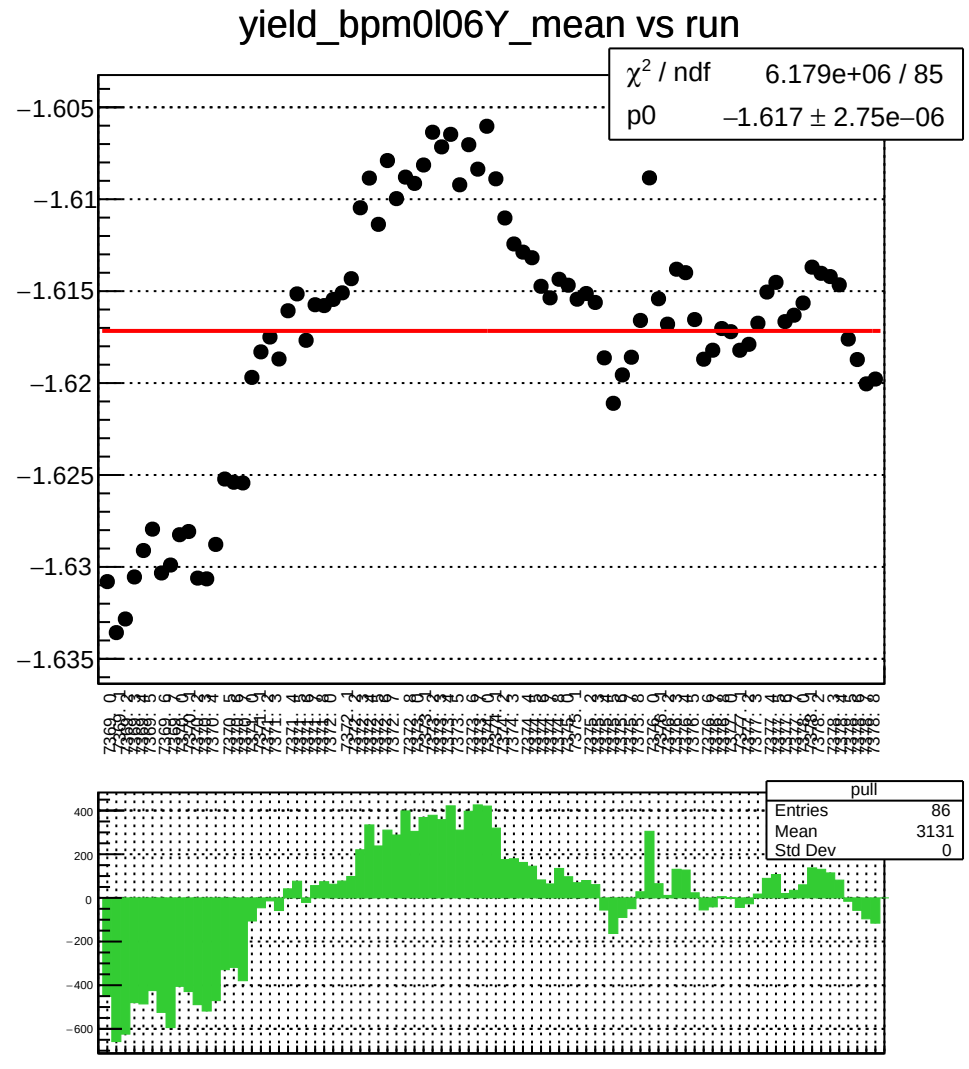

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

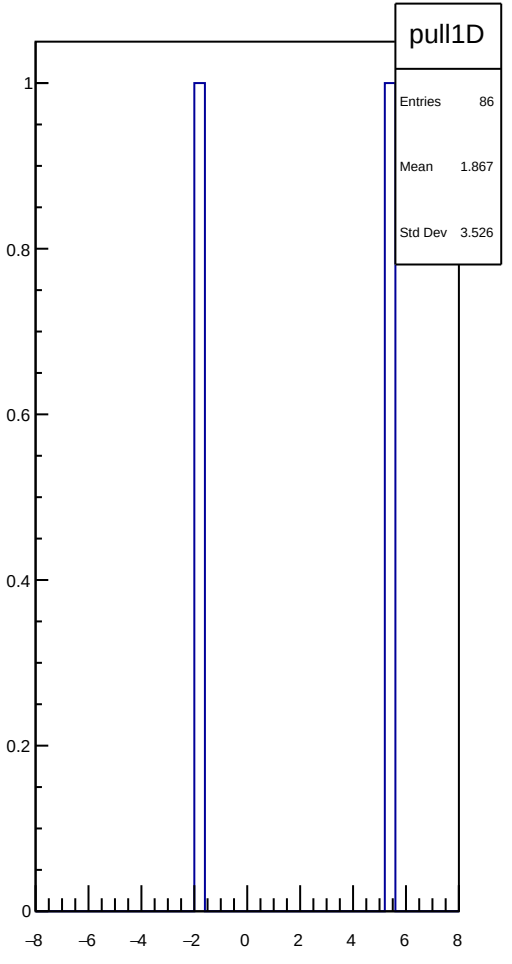

yield_bpm0l05Y_rms vs run
χ^2 / ndf 3.908e+04 / 85
p0 0.005476 ± 4.269e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

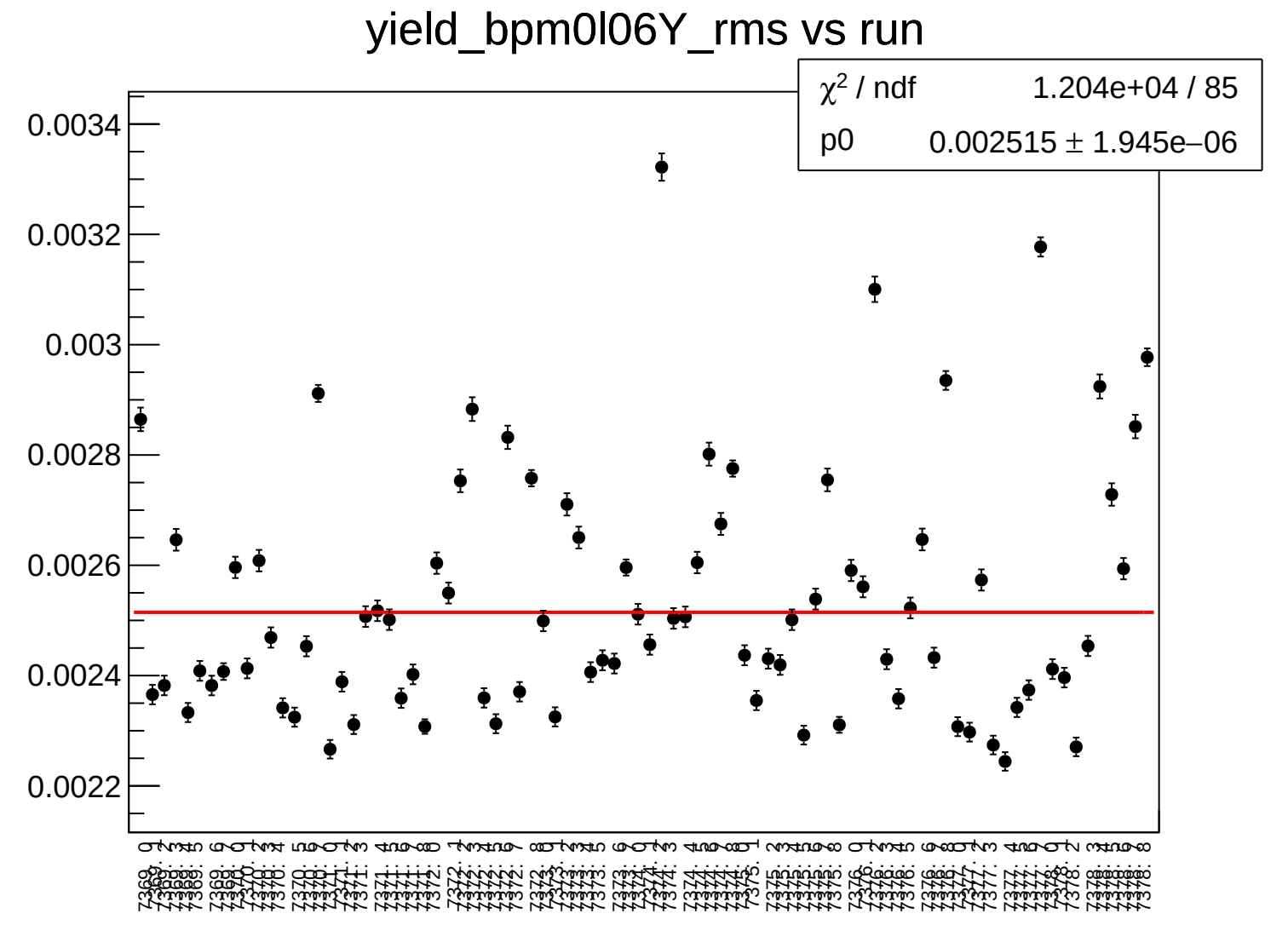

yield_bpm0l06X_mean vs run
χ² / ndf 4.668e+07 / 85
p0 2.476 ± 7.88e−06
2.55
2.5
2.45
2.4
2.35
pull
Entries 86
Mean 5625
Std Dev 0
1000
500
0
−500
−1000
−1500

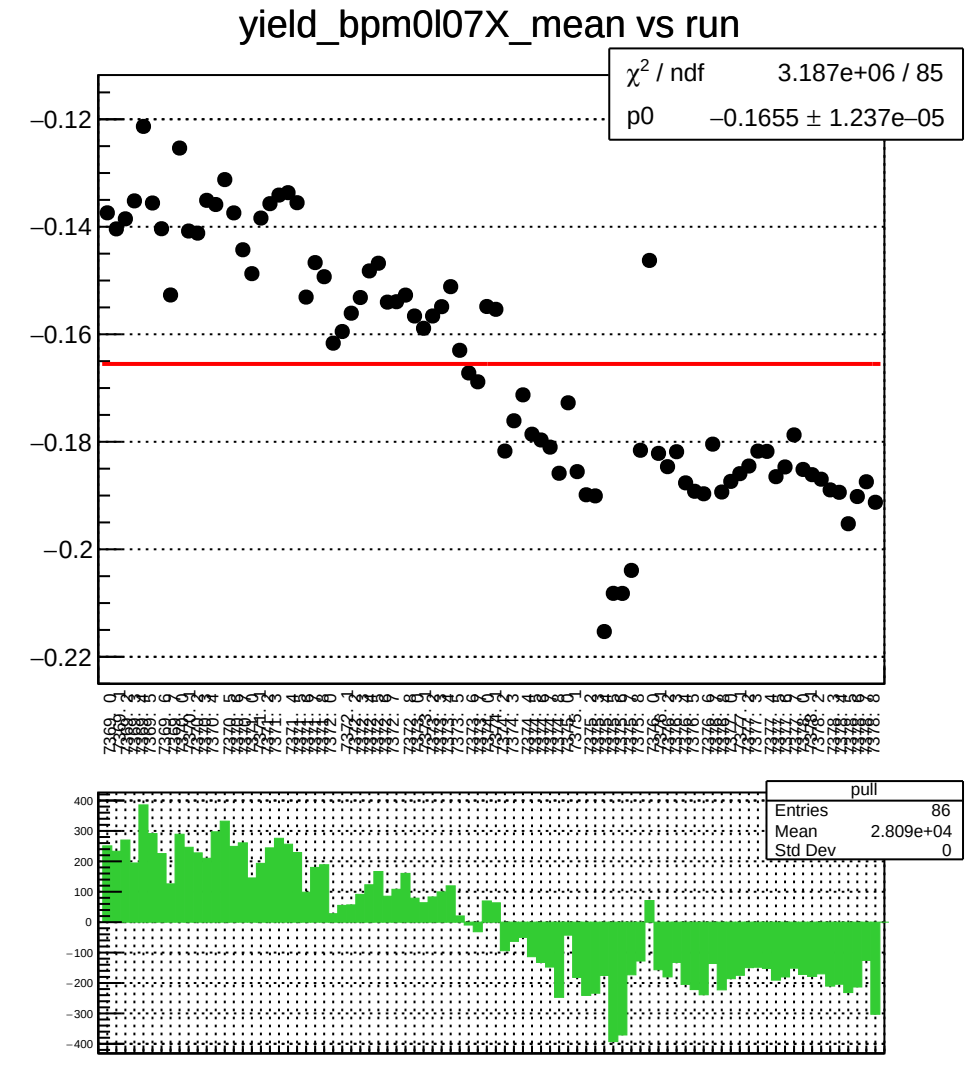

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

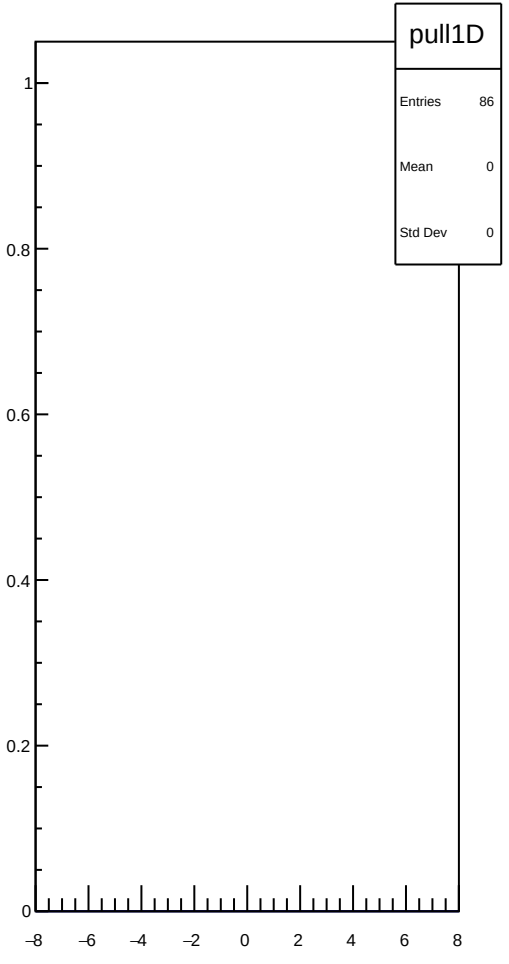

yield_bpm0l06X_rms vs run
χ^2 / ndf 7.171e+04 / 85
p0 0.007075 ± 5.572e−06
0.025
0.02
0.015
0.01
0.005

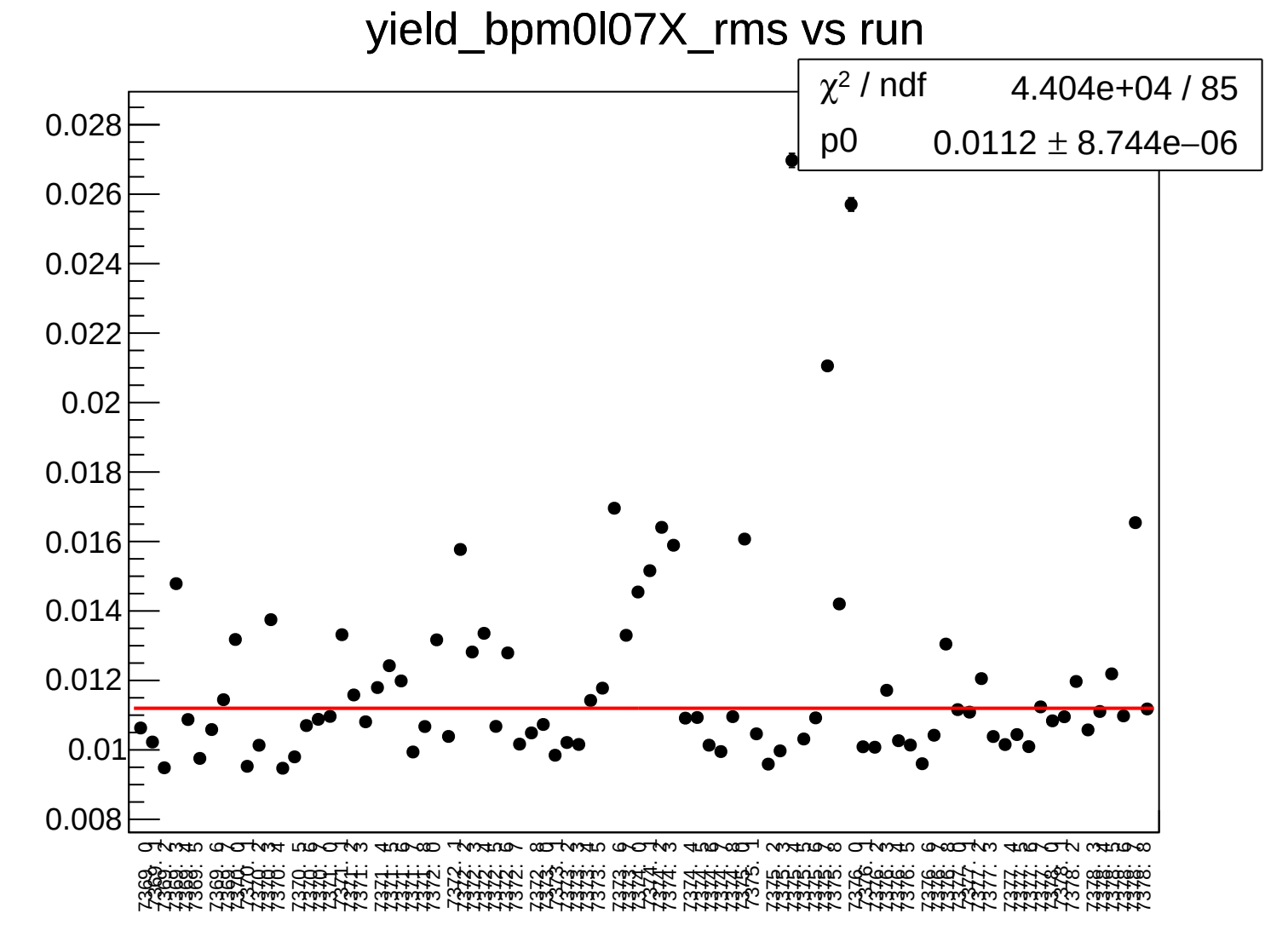

yield_bpm0l06Y_mean vs run
χ² / ndf 6.179e+06 / 85
p0 −1.617 ± 2.75e−06
−1.605
−1.61
−1.615
−1.62
−1.625
−1.63
−1.635
pull
Entries 86
Mean 3131
Std Dev 0
400
200
0
−200
−400
−600

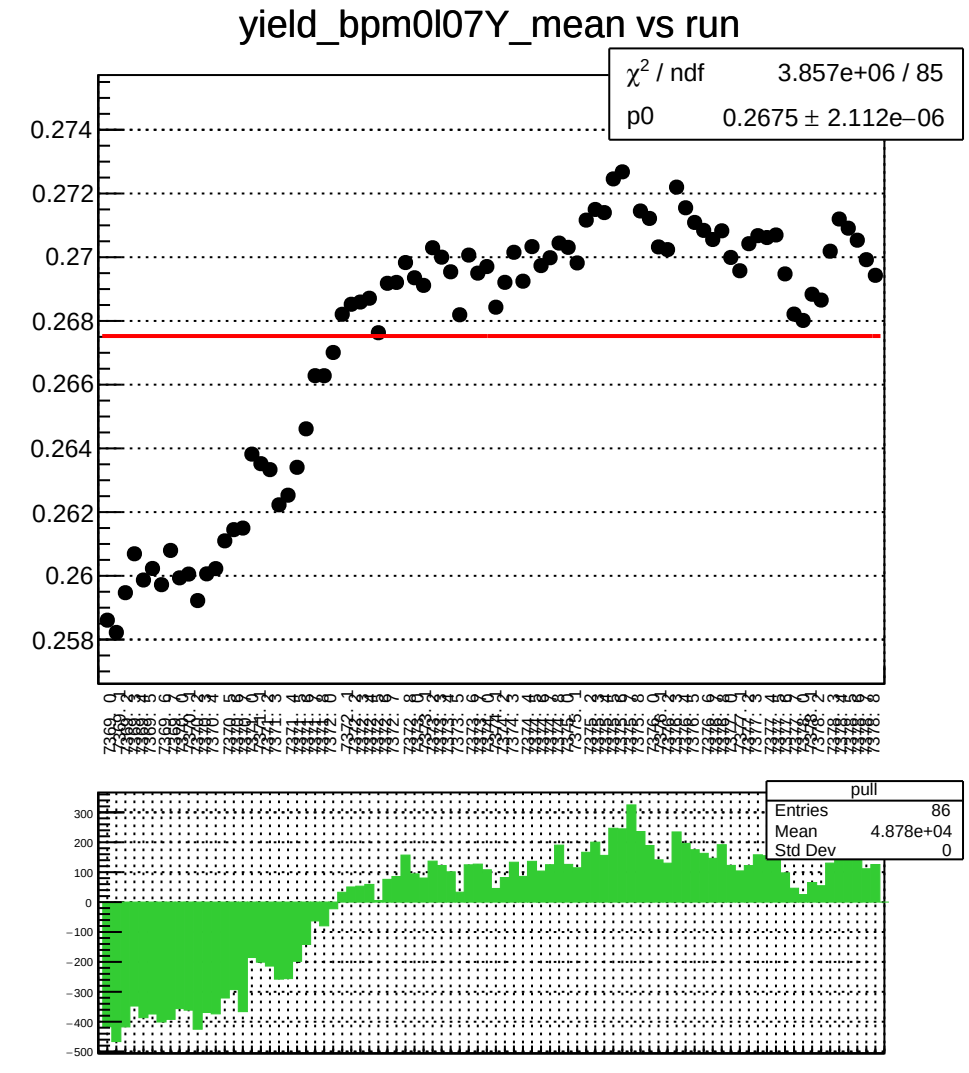

pull1D
Entries 86
Mean 1.867
Std Dev 3.526
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

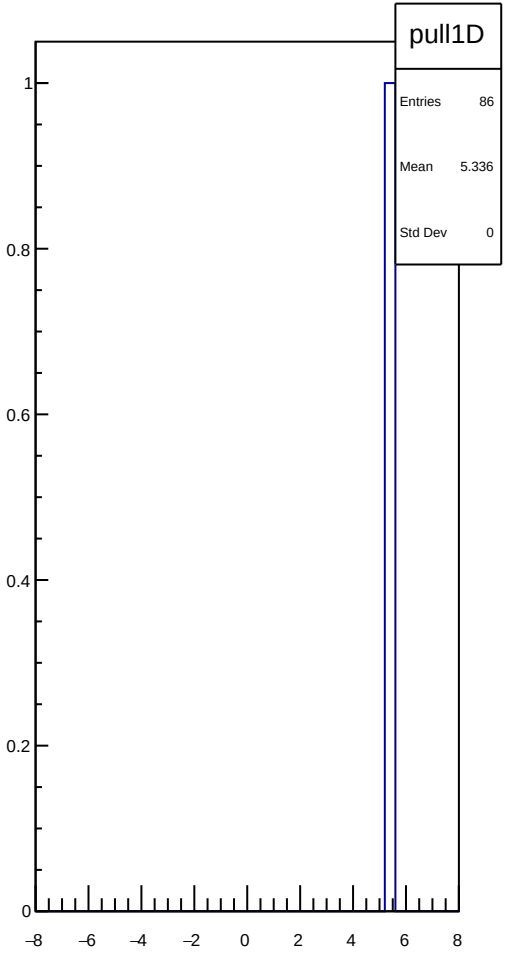

yield_bpm0l06Y_rms vs run
χ² / ndf 1.204e+04 / 85
p0 0.002515 ± 1.945e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

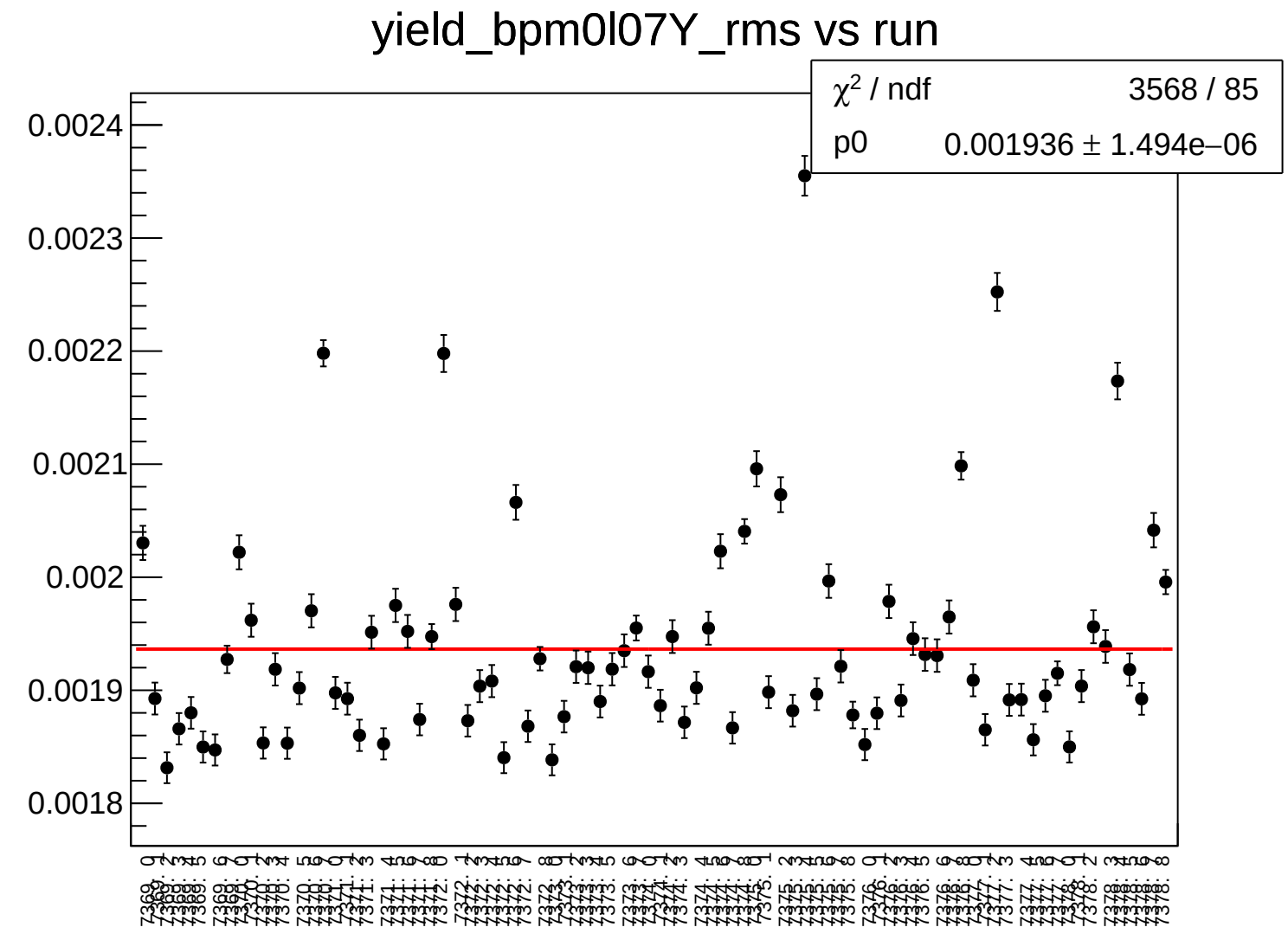

yield_bpm0l07X_mean vs run
χ² / ndf 3.187e+06 / 85
p0 −0.1655 ± 1.237e−05
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
pull
Entries 86
Mean 2.809e+04
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

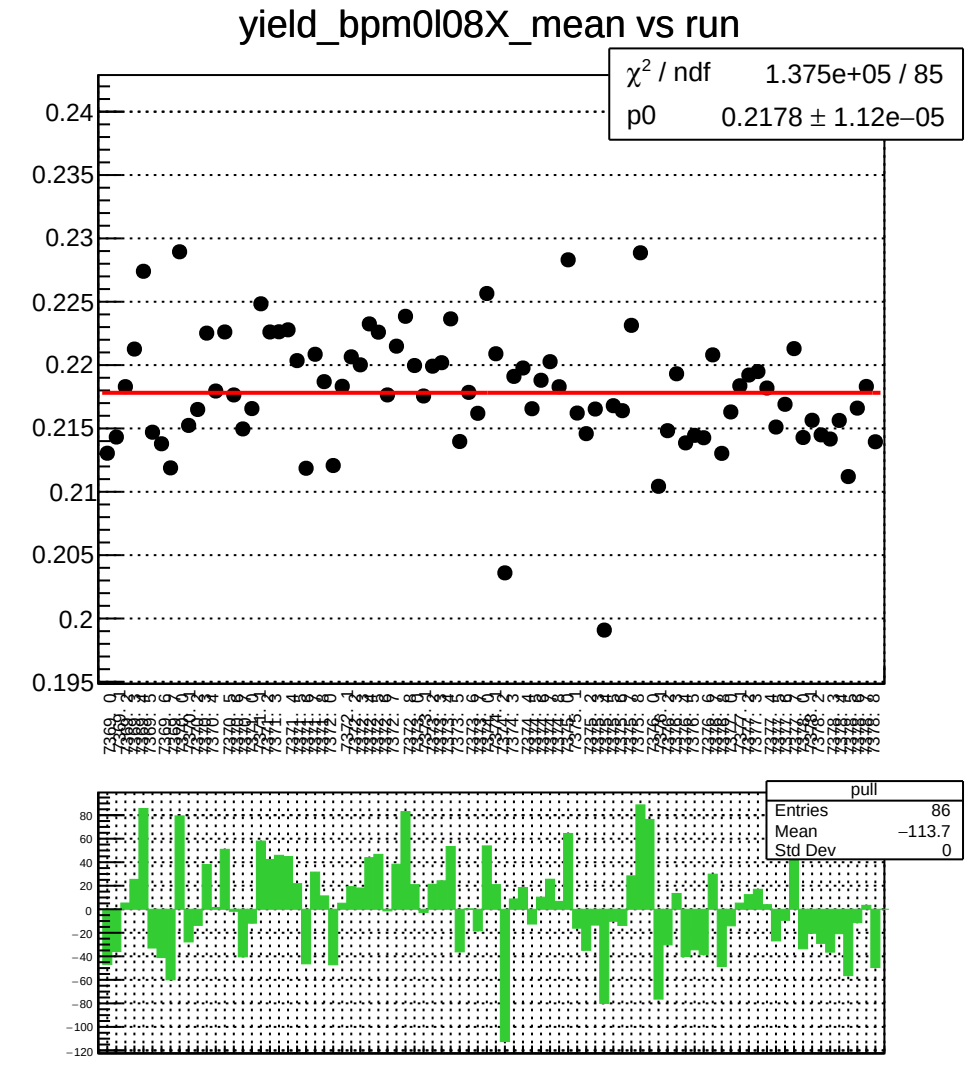

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

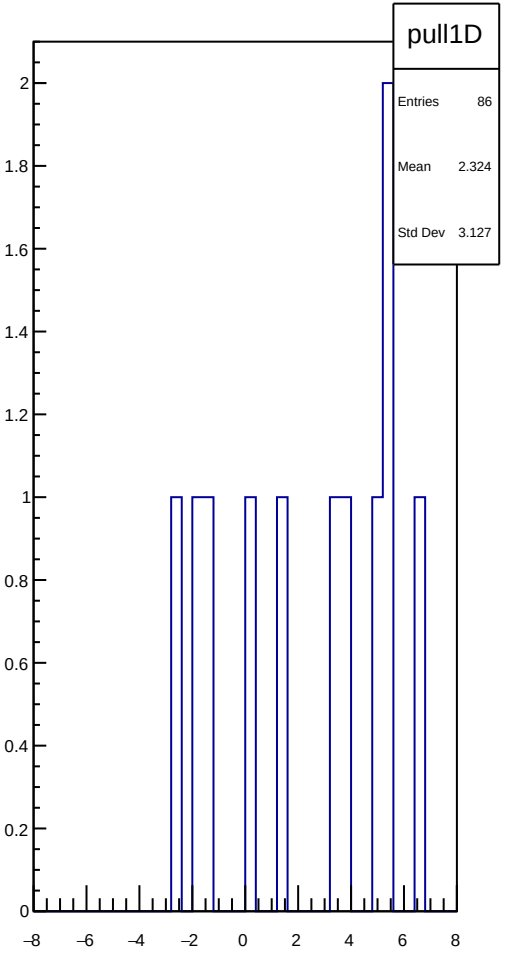

yield_bpm0l07X_rms vs run
χ² / ndf 4.404e+04 / 85
p0 0.0112 ± 8.744e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

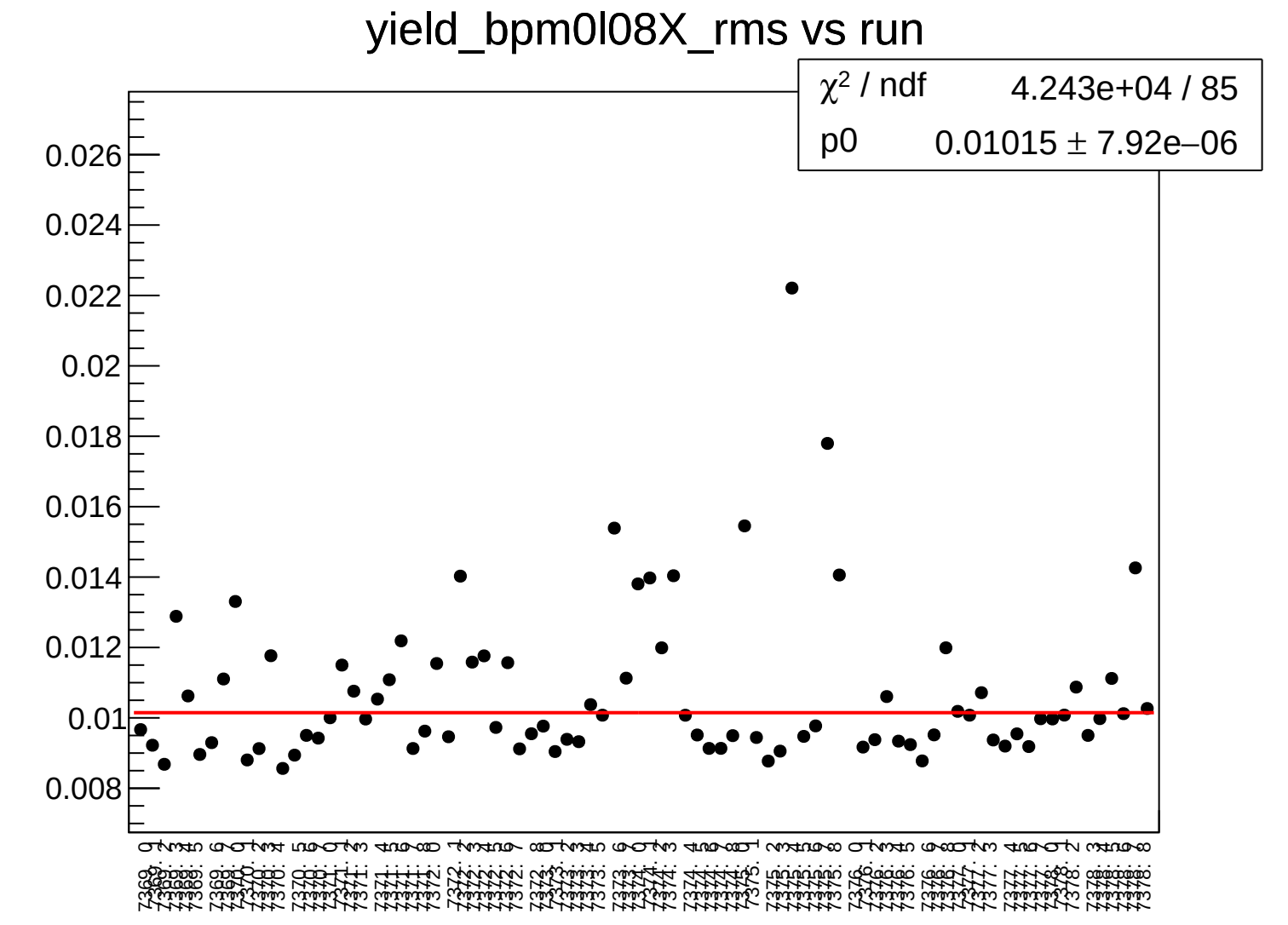

yield_bpm0l07Y_mean vs run
χ² / ndf 3.857e+06 / 85
p0 0.2675 ± 2.112e−06
0.274
0.272
0.27
0.268
0.266
0.264
0.262
0.26
0.258
pull
Entries 86
Mean 4.878e+04
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

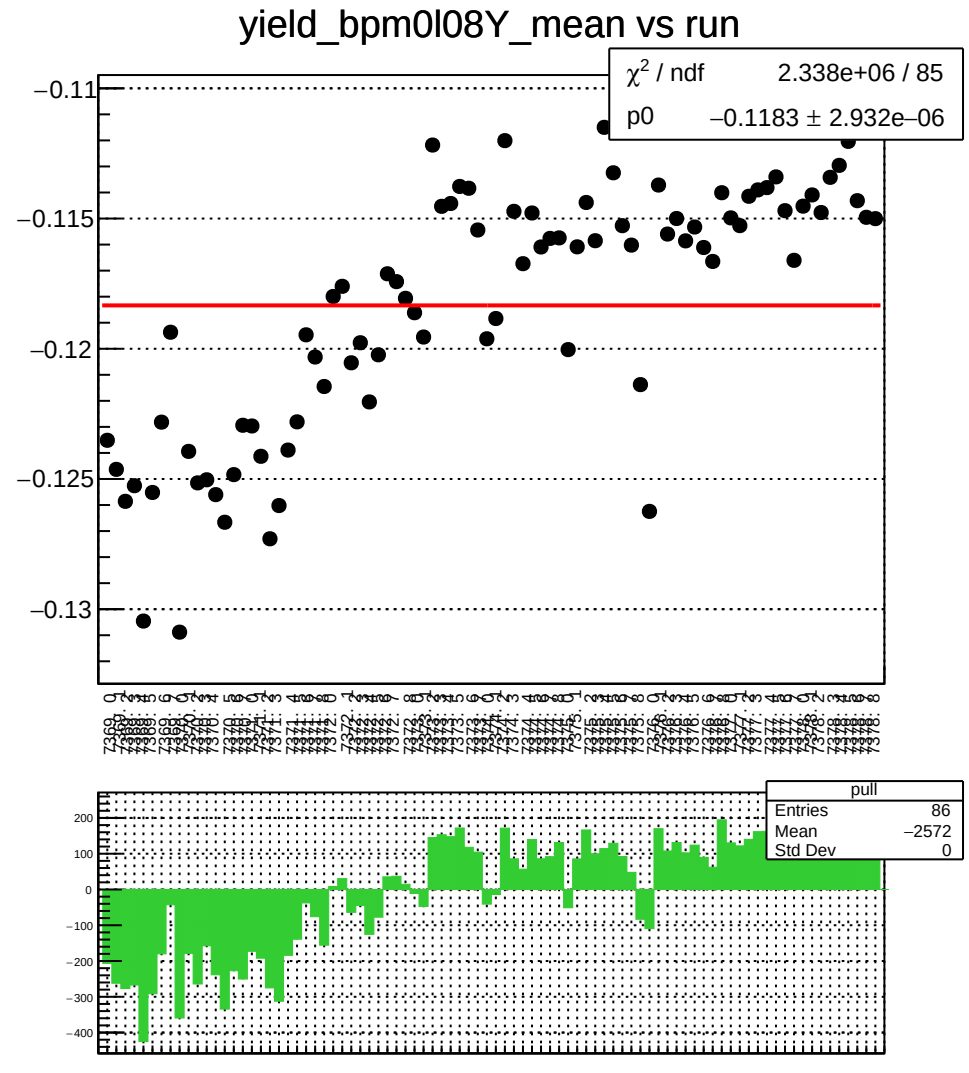

pull1D
Entries 86
Mean 5.336
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

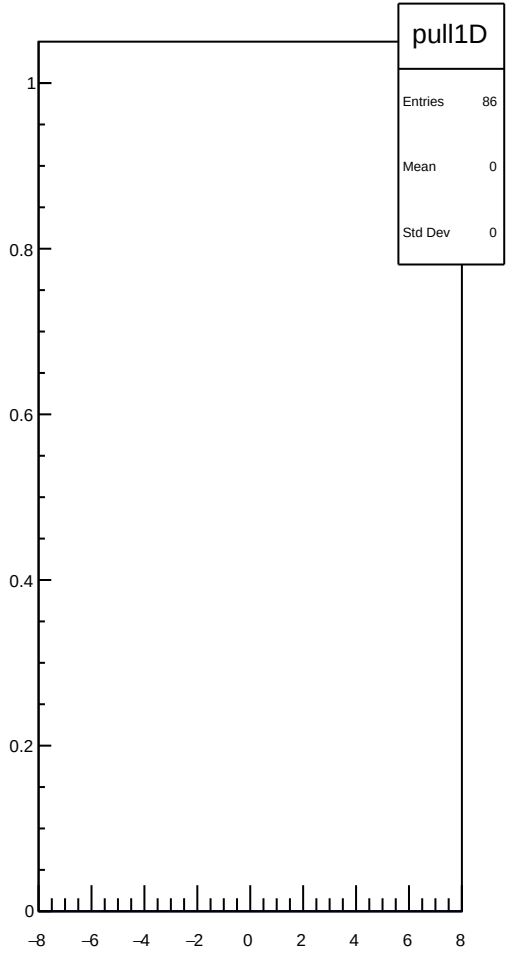

yield_bpm0l07Y_rms vs run
χ² / ndf 3568 / 85
p0 0.001936 ± 1.494e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

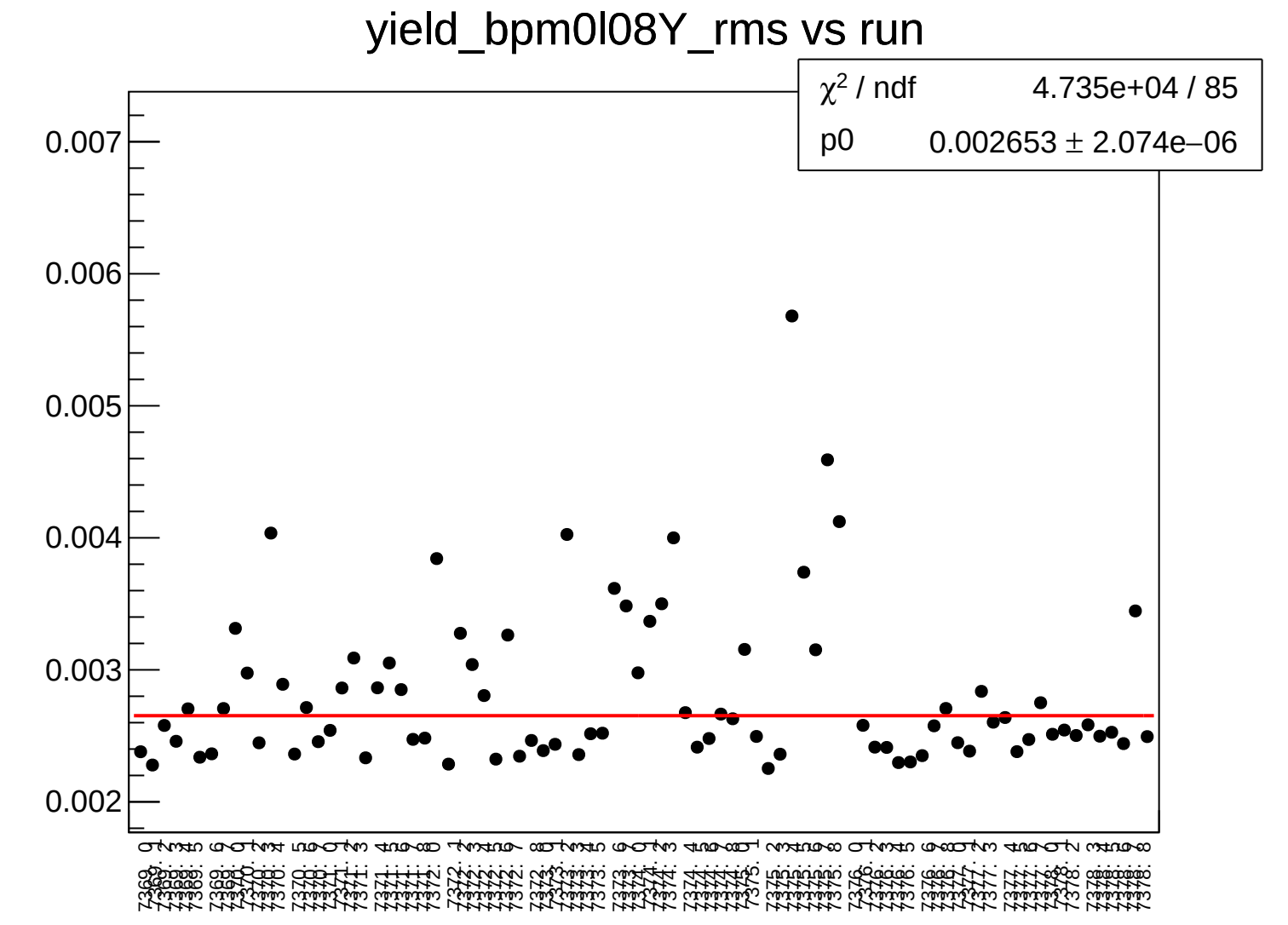

yield_bpm0l08X_mean vs run
χ² / ndf 1.375e+05 / 85
p0 0.2178 ± 1.12e−05
pull
Entries 86
Mean −113.7
Std Dev 0

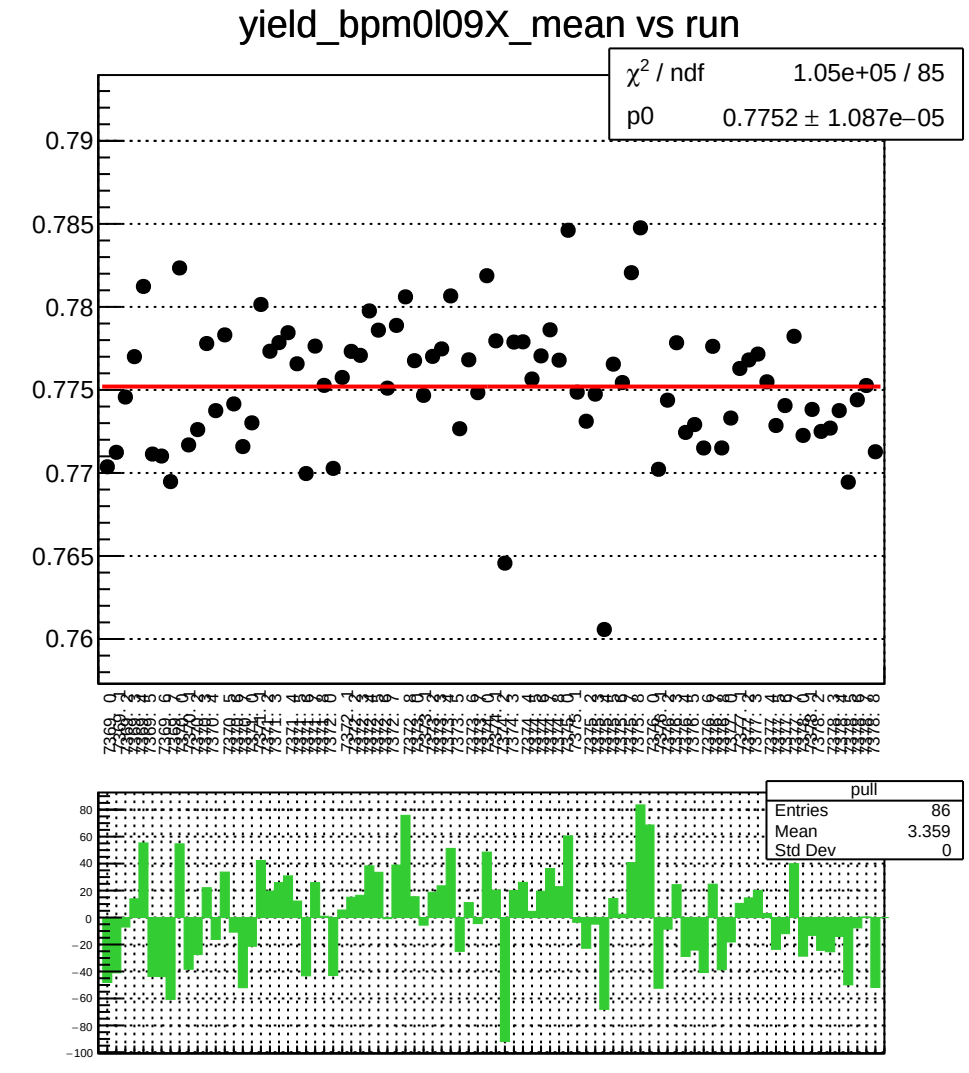

pull1D
Entries 86
Mean 2.324
Std Dev 3.127

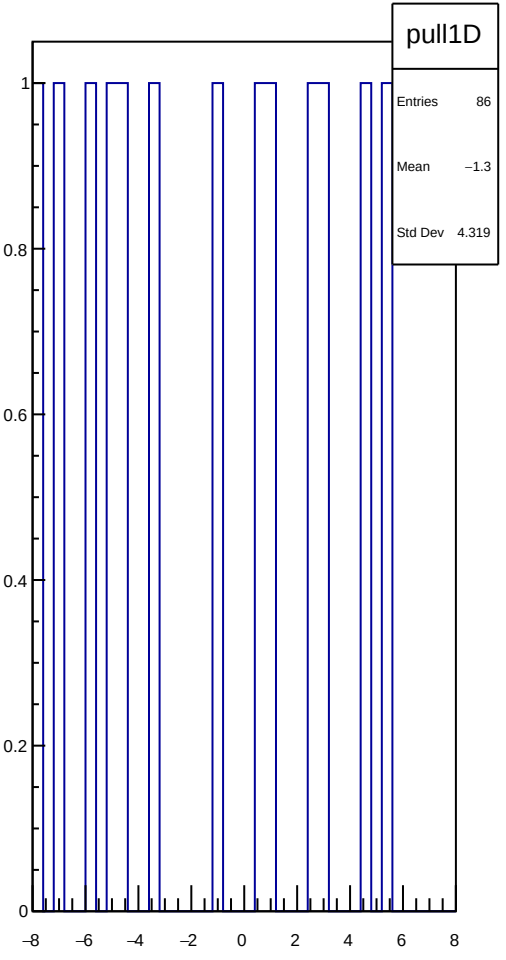

yield_bpm0l08X_rms vs run
χ² / ndf 4.243e+04 / 85
p0 0.01015 ± 7.92e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

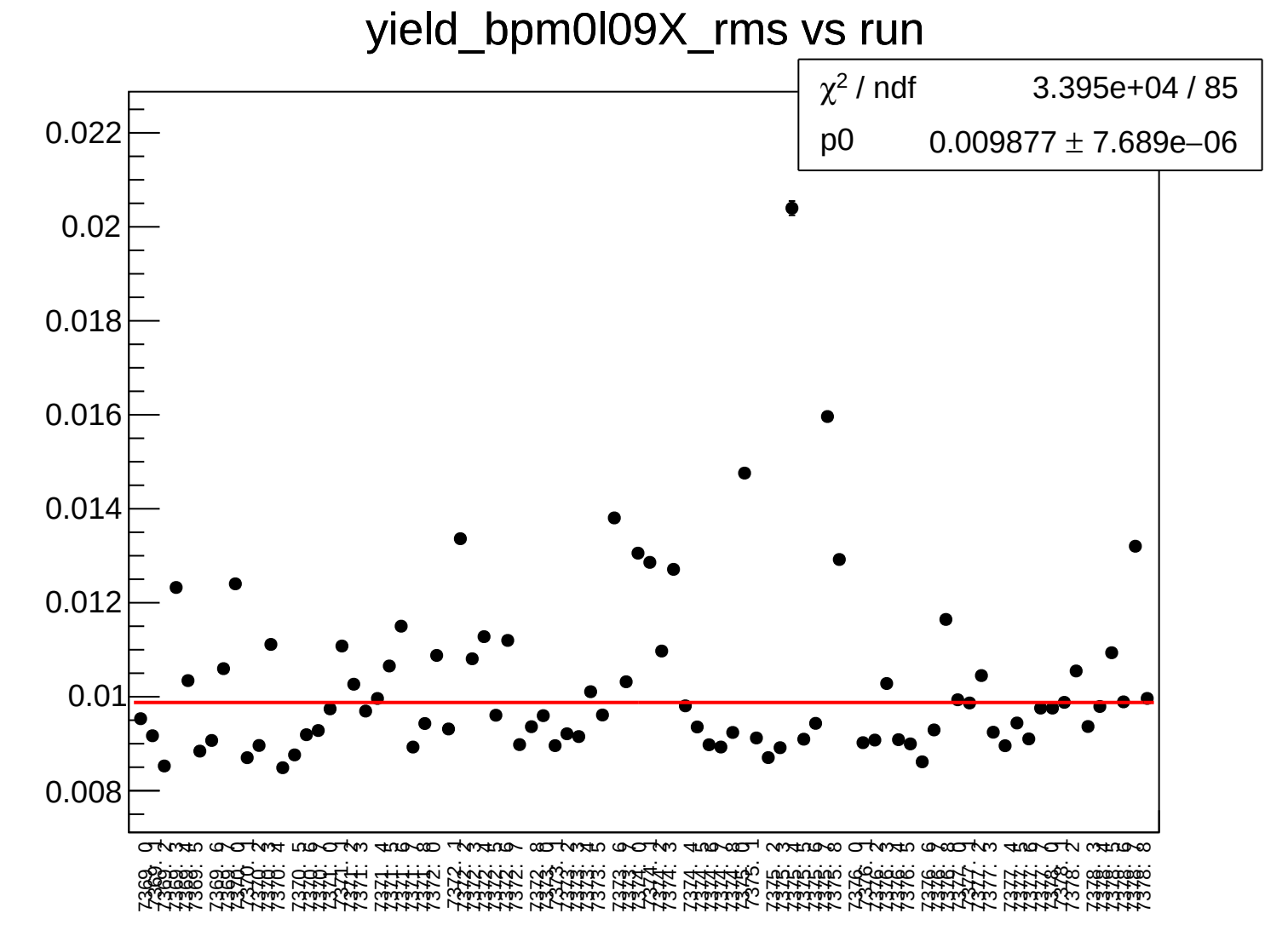

yield_bpm0l08Y_mean vs run
χ² / ndf 2.338e+06 / 85
p0 −0.1183 ± 2.932e−06
−0.11
−0.115
−0.12
−0.125
−0.13
pull
Entries 86
Mean −2572
Std Dev 0
200
100
0
−100
−200
−300
−400

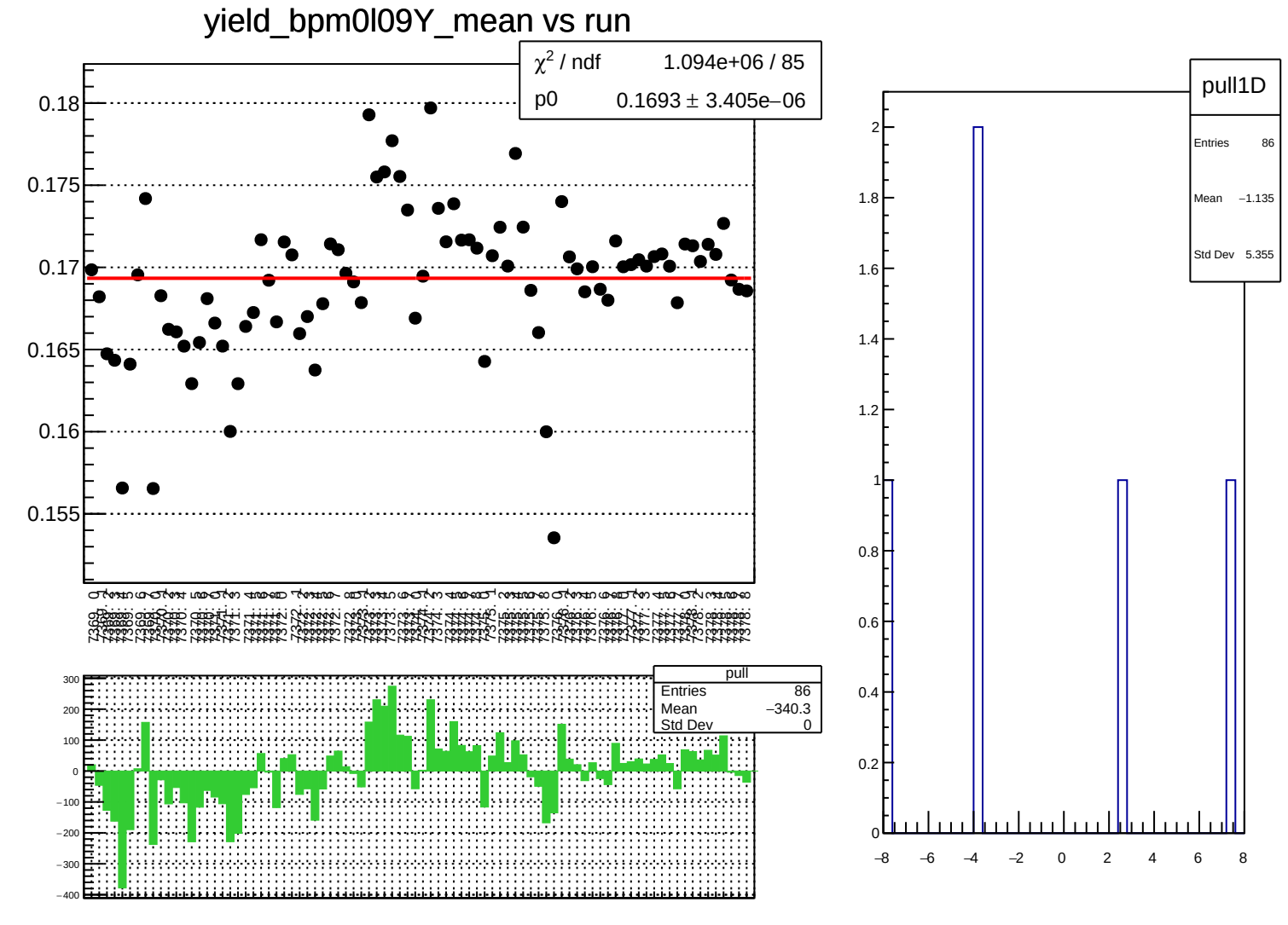

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

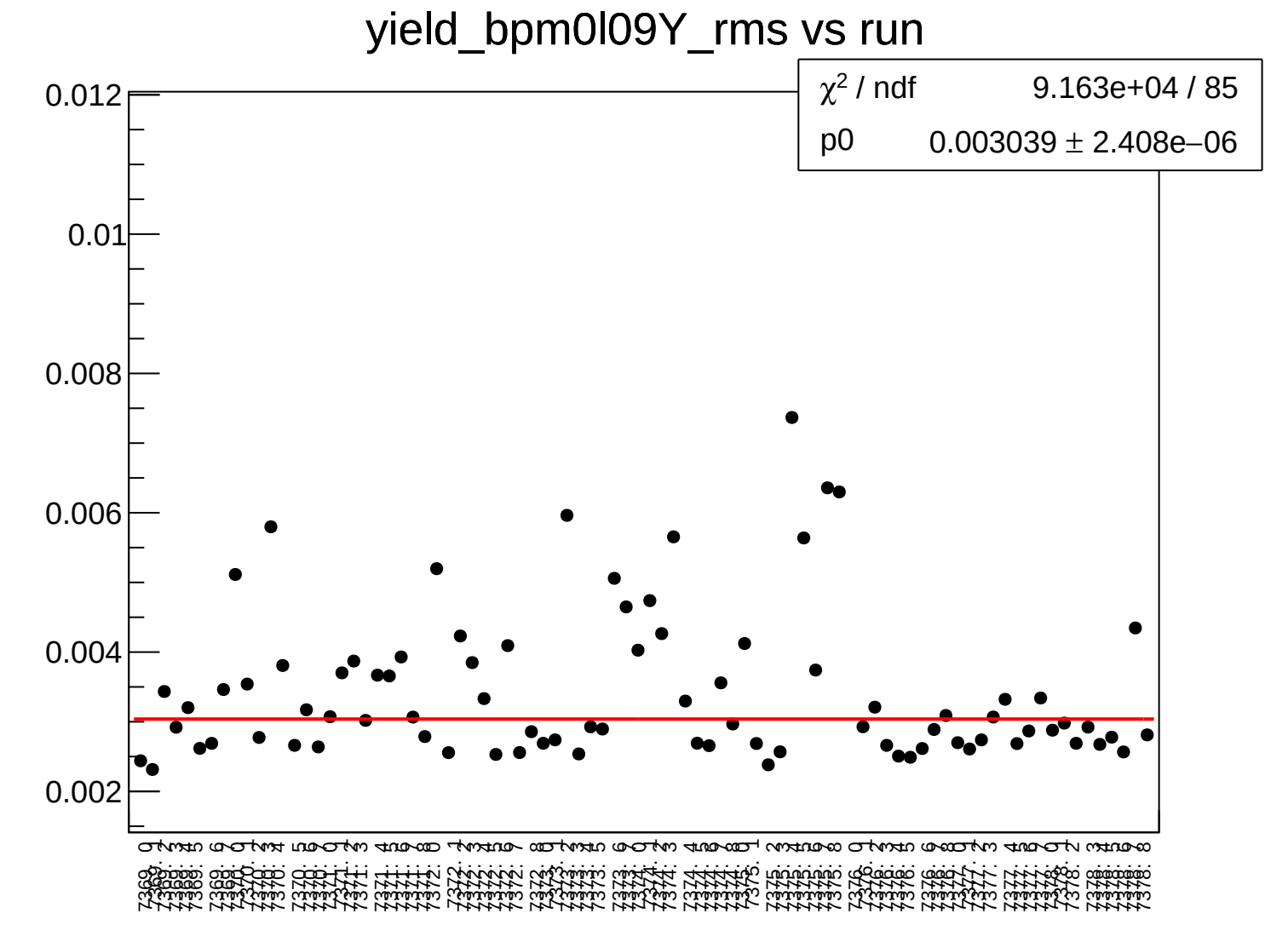

yield_bpm0l08Y_rms vs run
χ² / ndf 4.735e+04 / 85
p0 0.002653 ± 2.074e−06
0.007
0.006
0.005
0.004
0.003
0.002

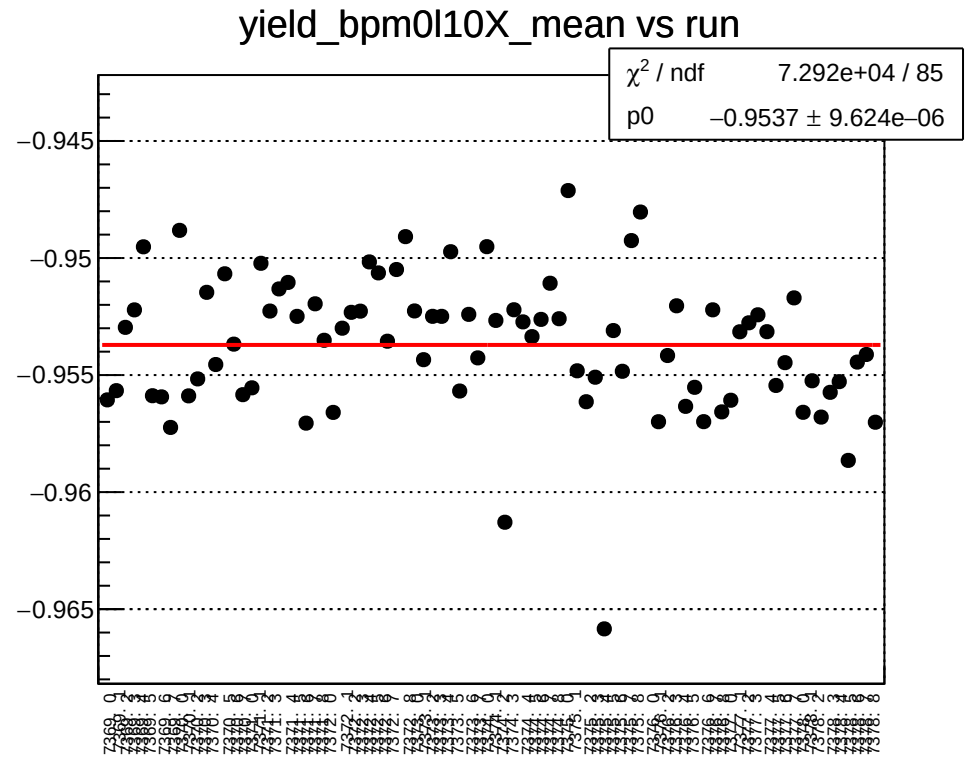

yield_bpm0l09X_mean vs run
χ² / ndf 1.05e+05 / 85
p0 0.7752 ± 1.087e−05
0.79
0.785
0.78
0.775
0.77
0.765
0.76
pull
Entries 86
Mean 3.359
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

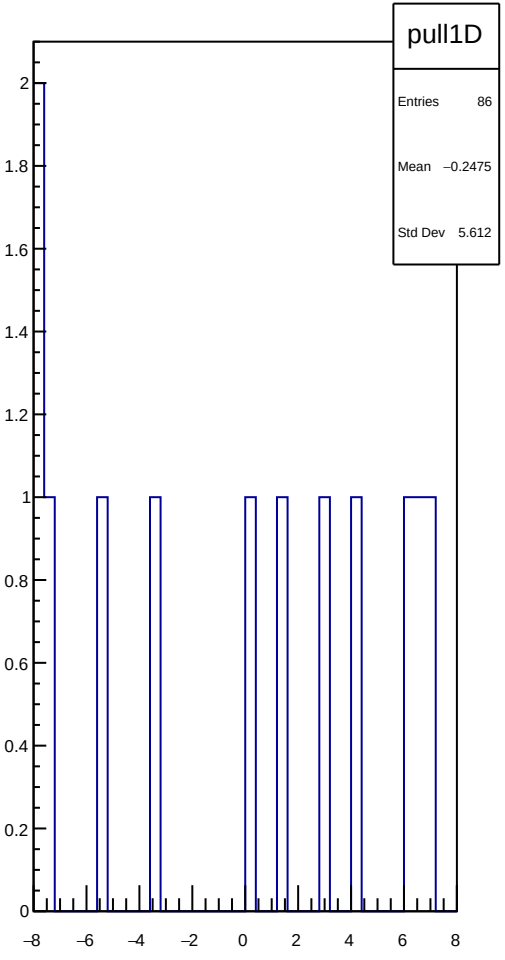

pull1D
Entries 86
Mean −1.3
Std Dev 4.319
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

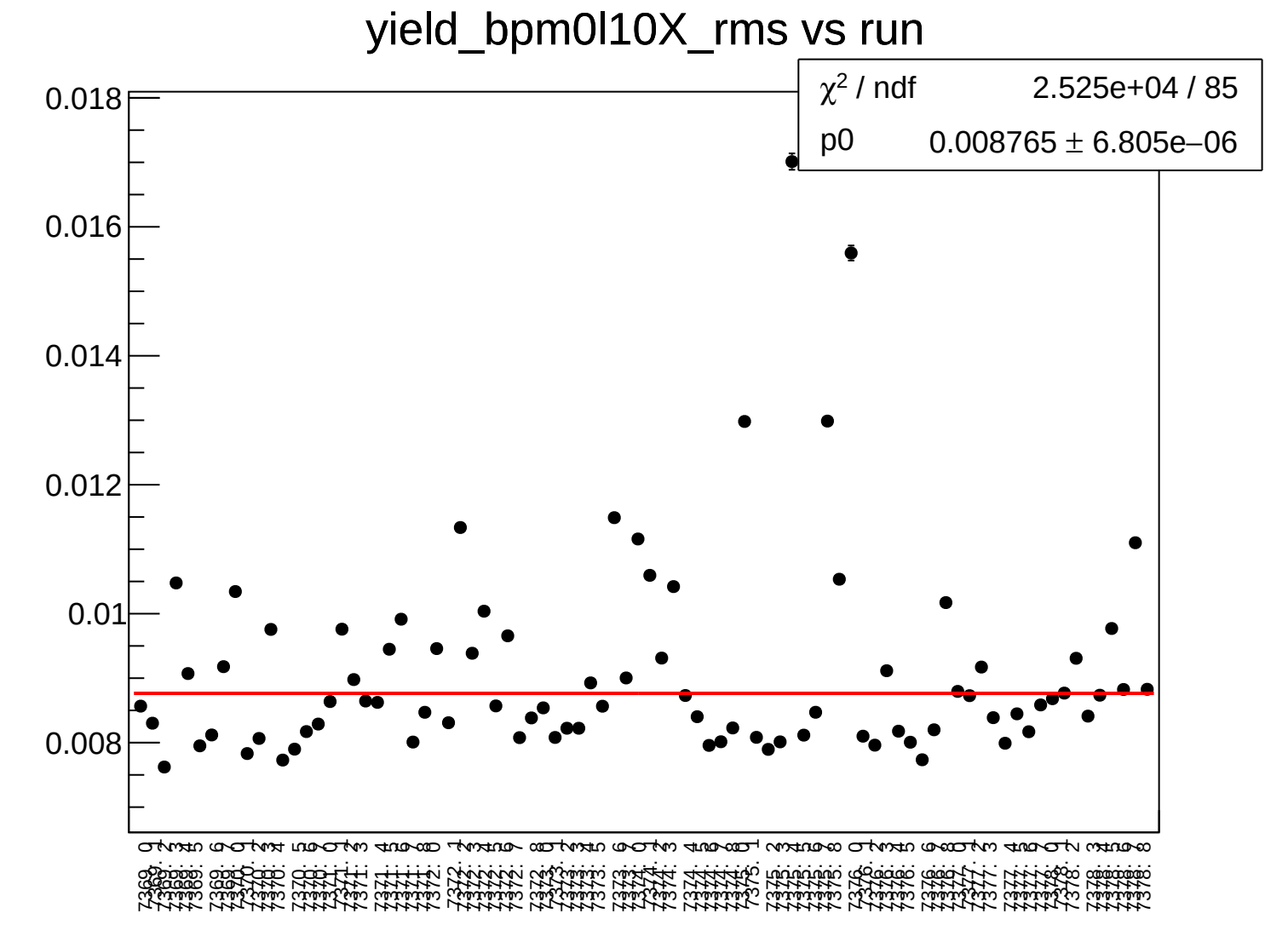

yield_bpm0l09X_rms vs run
χ² / ndf 3.395e+04 / 85
p0 0.009877 ± 7.689e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

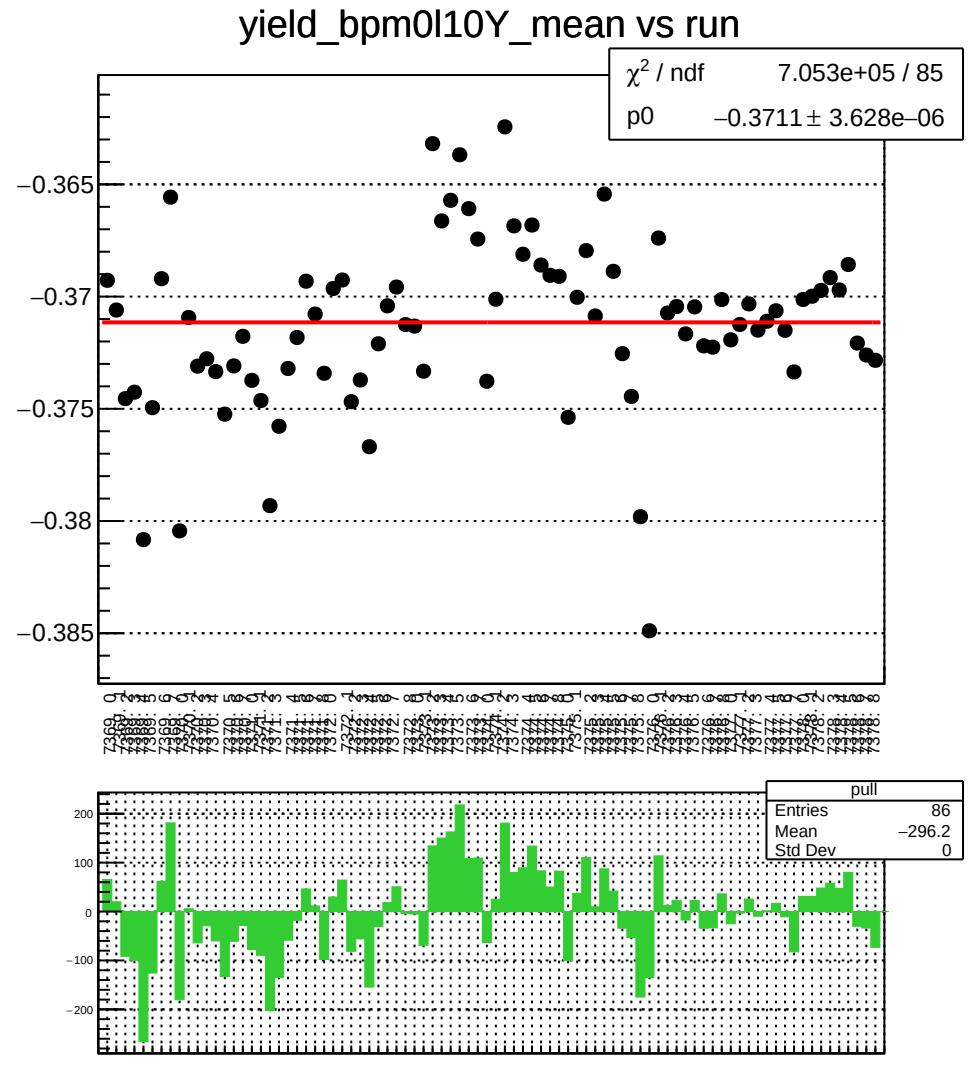

yield_bpm0l09Y_mean vs run
χ² / ndf 1.094e+06 / 85
p0 0.1693 ± 3.405e−06
0.18
0.175
0.17
0.165
0.16
0.155
pull
Entries 86
Mean −340.3
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 86
Mean −1.135
Std Dev 5.355
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

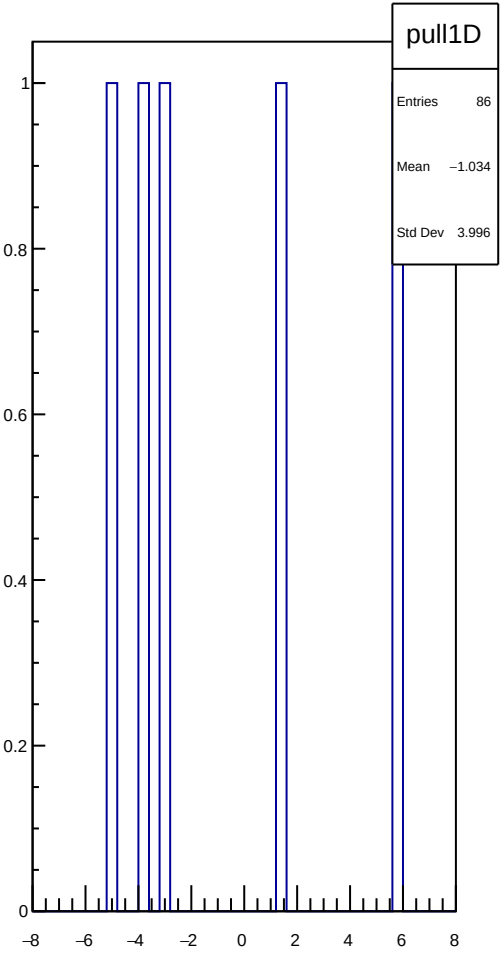

yield_bpm0l09Y_rms vs run
χ² / ndf 9.163e+04 / 85
p0 0.003039 ± 2.408e−06
0.012
0.01
0.008
0.006
0.004
0.002

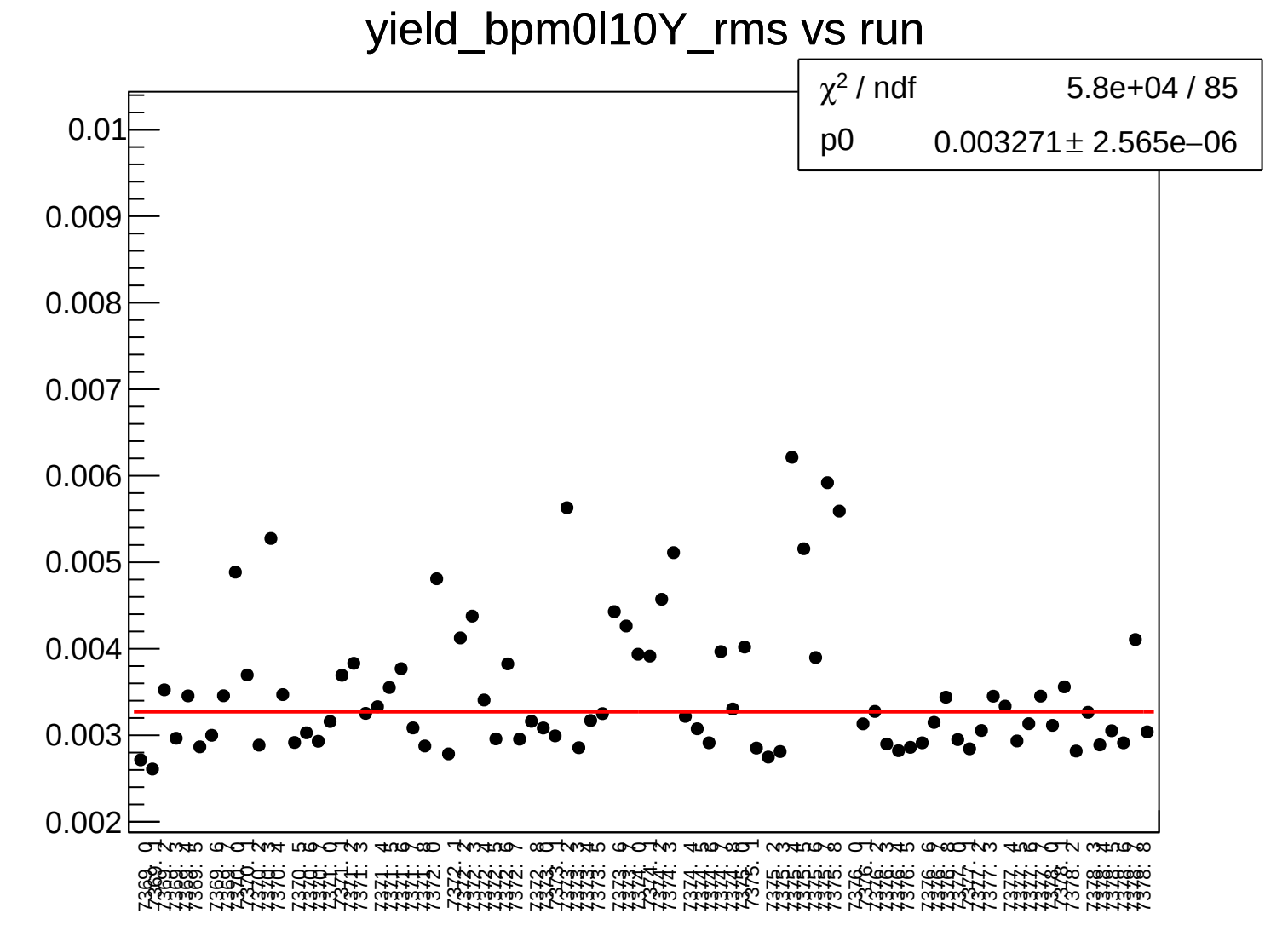

yield_bpm0l10X_mean vs run
χ² / ndf 7.292e+04 / 85
p0 −0.9537 ± 9.624e−06
−0.945
−0.95
−0.955
−0.96
−0.965
pull
Entries 86
Mean −199.1
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

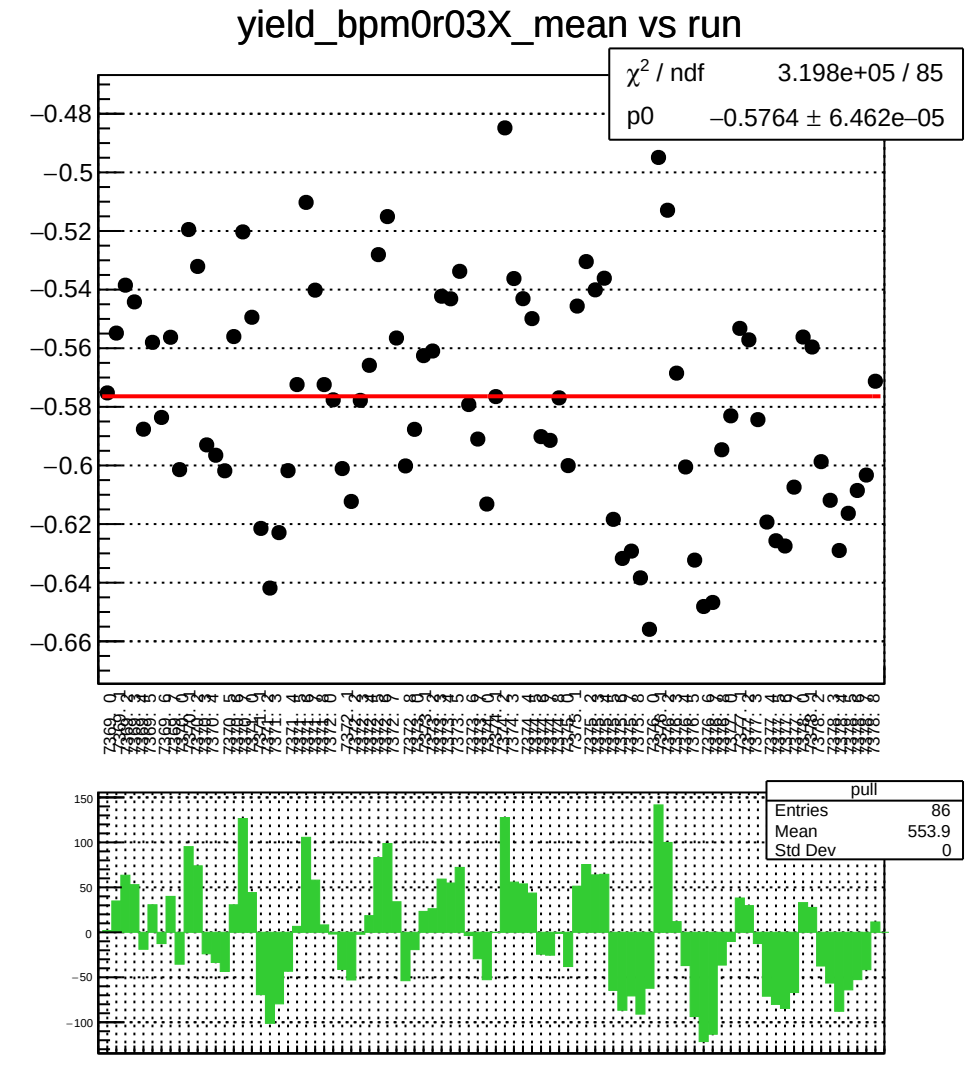

pull1D
Entries 86
Mean −0.2475
Std Dev 5.612
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

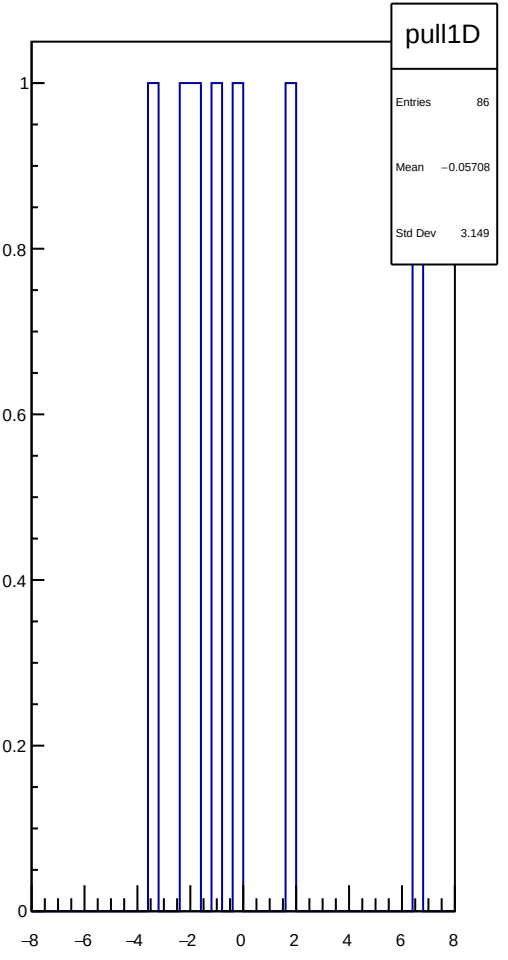

yield_bpm0l10X_rms vs run
χ² / ndf 2.525e+04 / 85
p0 0.008765 ± 6.805e−06
0.018
0.016
0.014
0.012
0.01
0.008

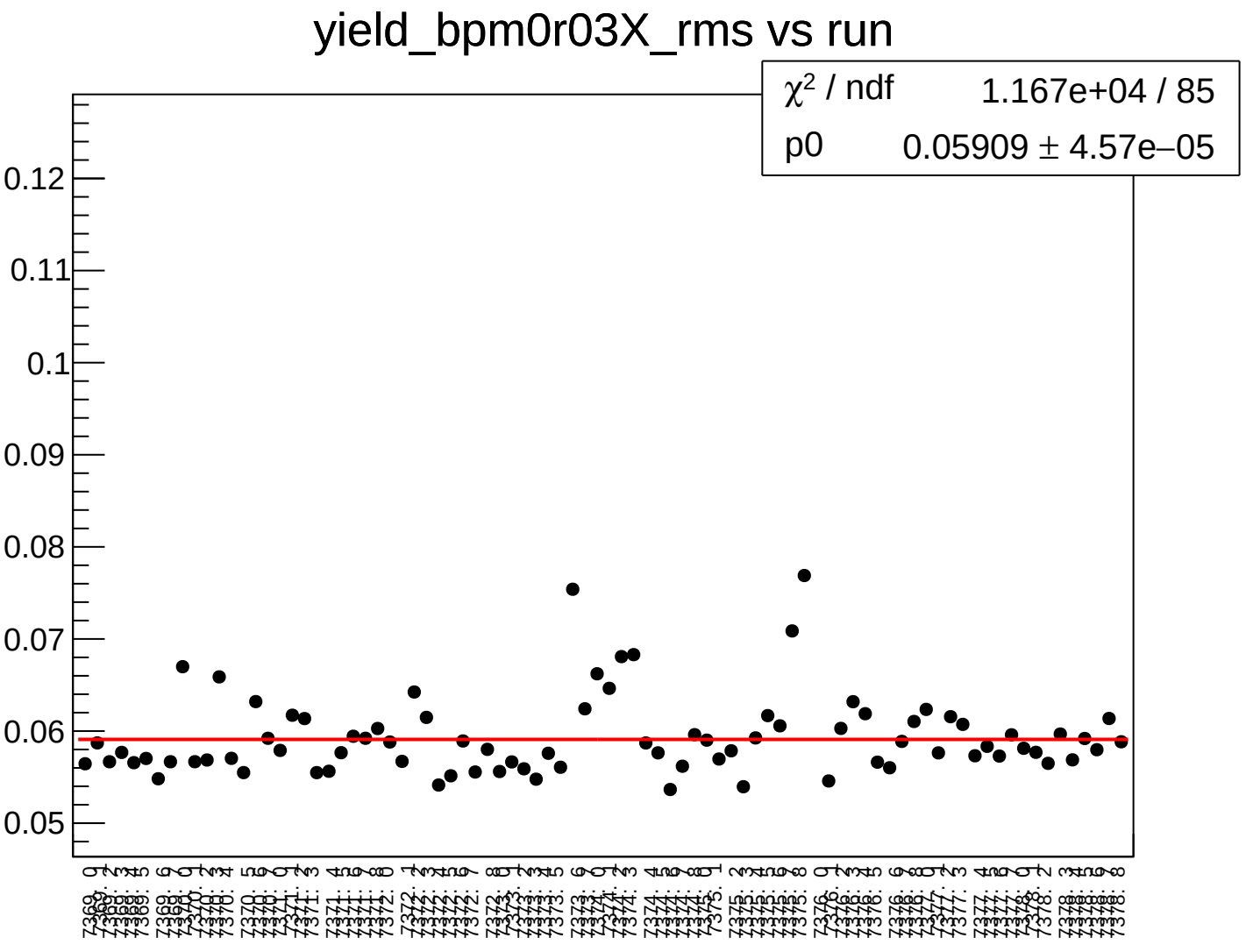

yield_bpm0l10Y_mean vs run
χ² / ndf 7.053e+05 / 85
p0 −0.3711 ± 3.628e−06
−0.365
−0.37
−0.375
−0.38
−0.385
pull
Entries 86
Mean −296.2
Std Dev 0
200
100
0
−100
−200

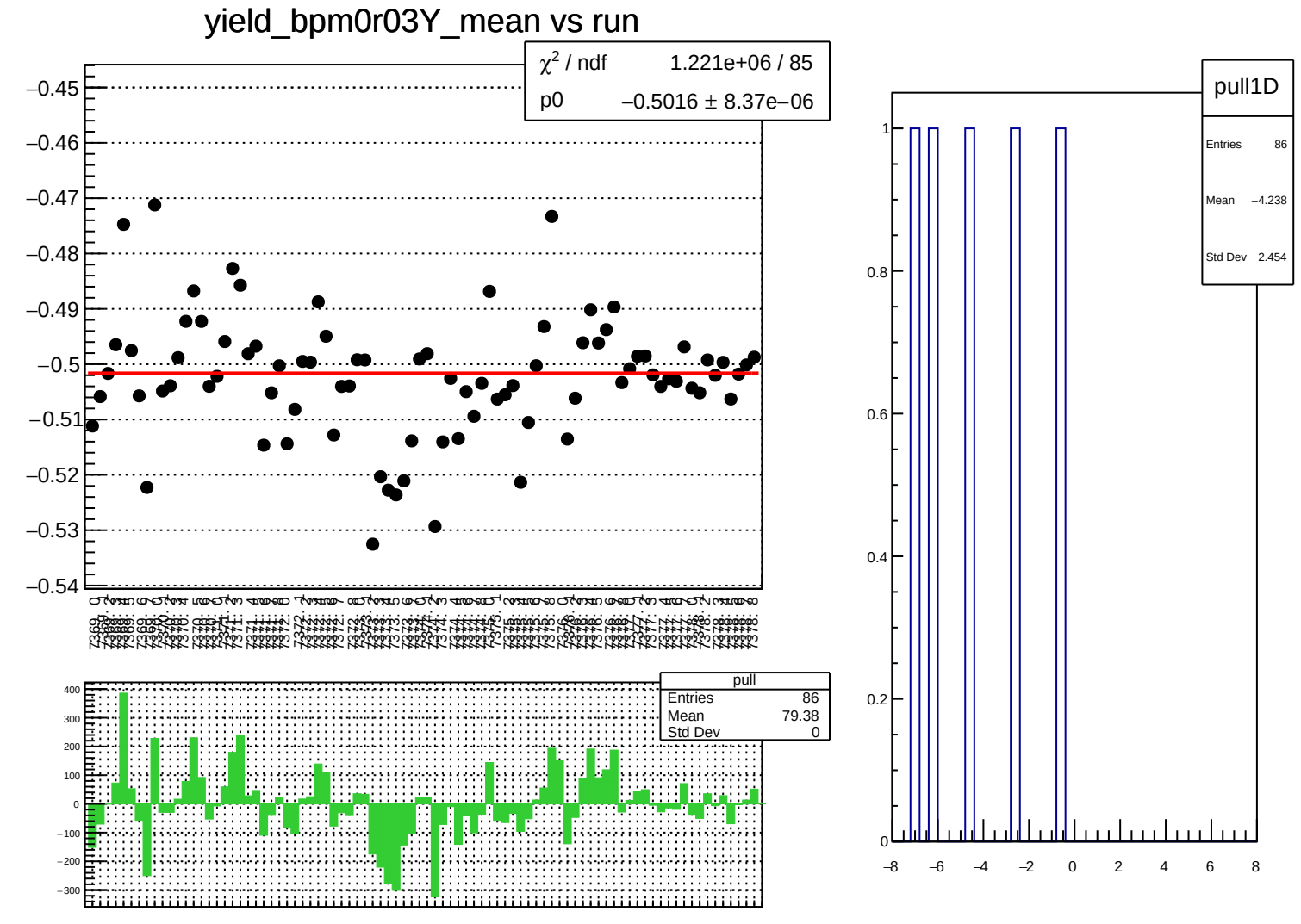

pull1D
Entries 86
Mean −1.034
Std Dev 3.996
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

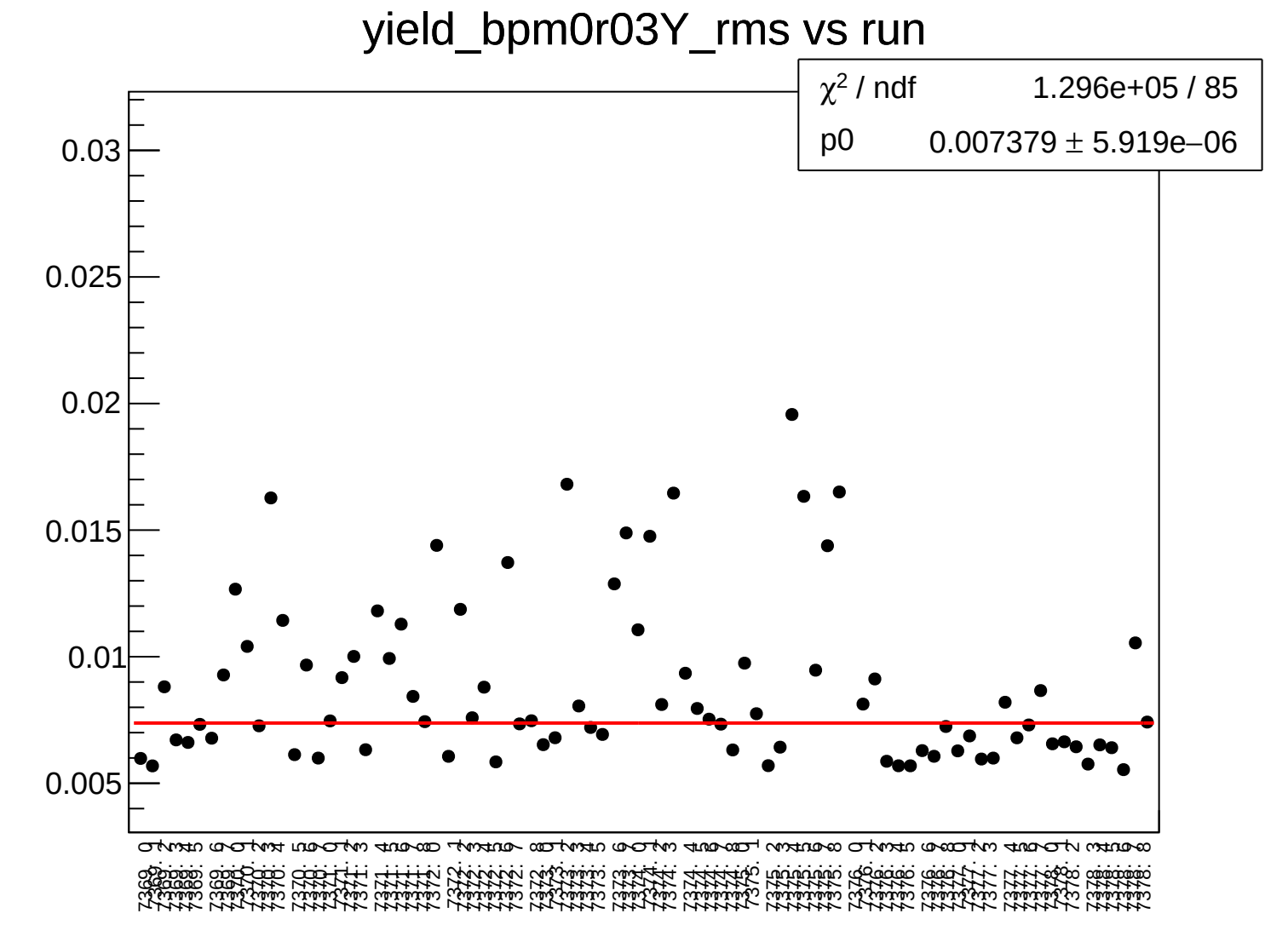

yield_bpm0l10Y_rms vs run
χ^2 / ndf 5.8e+04 / 85
p0 0.003271 ± 2.565e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

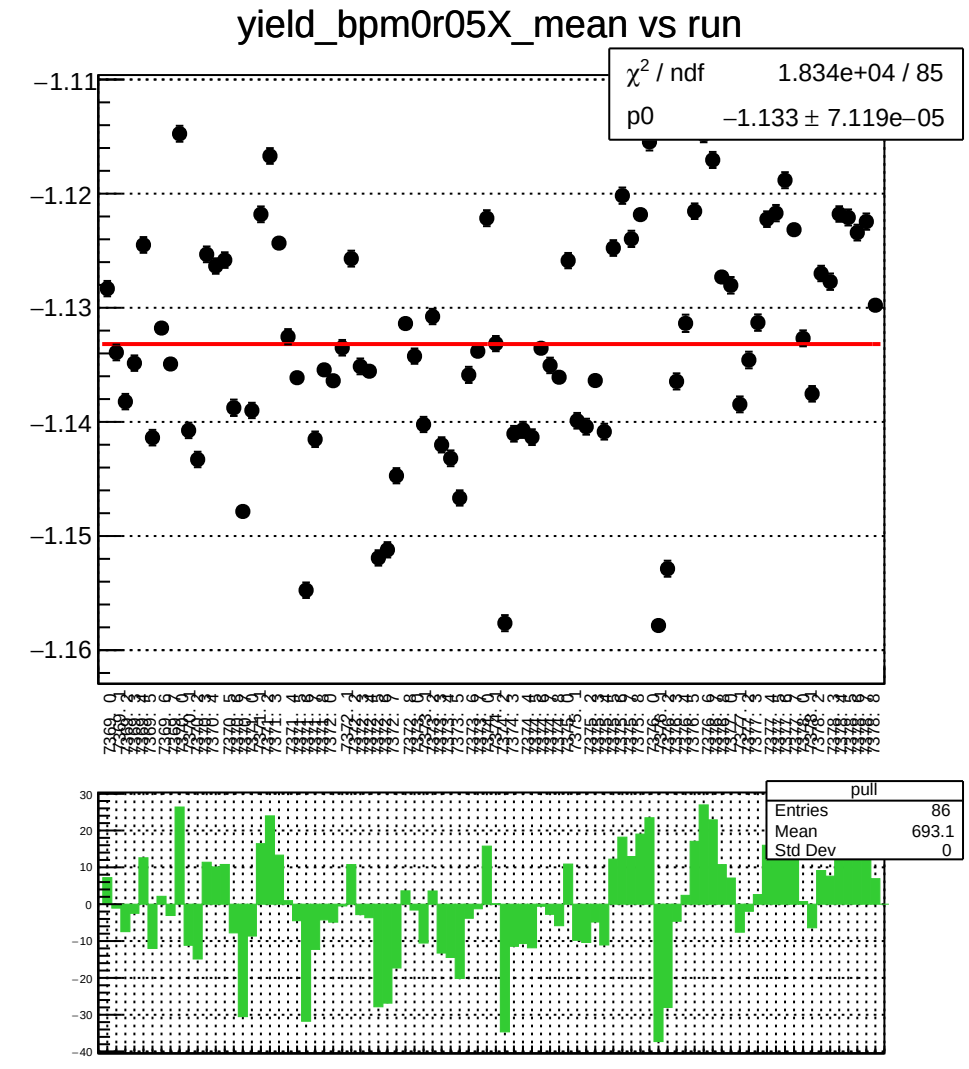

yield_bpm0r03X_mean vs run
χ² / ndf 3.198e+05 / 85
p0 −0.5764 ± 6.462e−05
−0.48
−0.5
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
pull
Entries 86
Mean 553.9
Std Dev 0
150
100
50
0
−50
−100

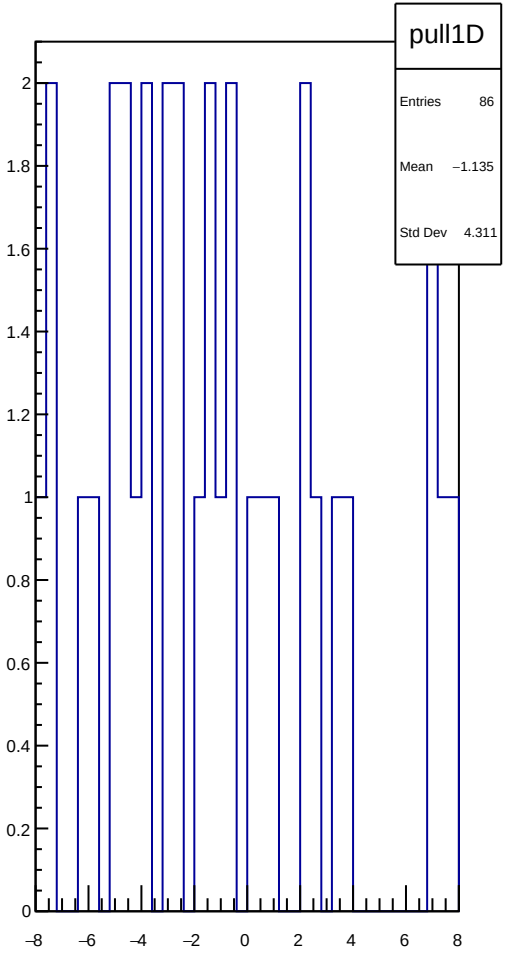

pull1D
Entries 86
Mean −0.05708
Std Dev 3.149
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

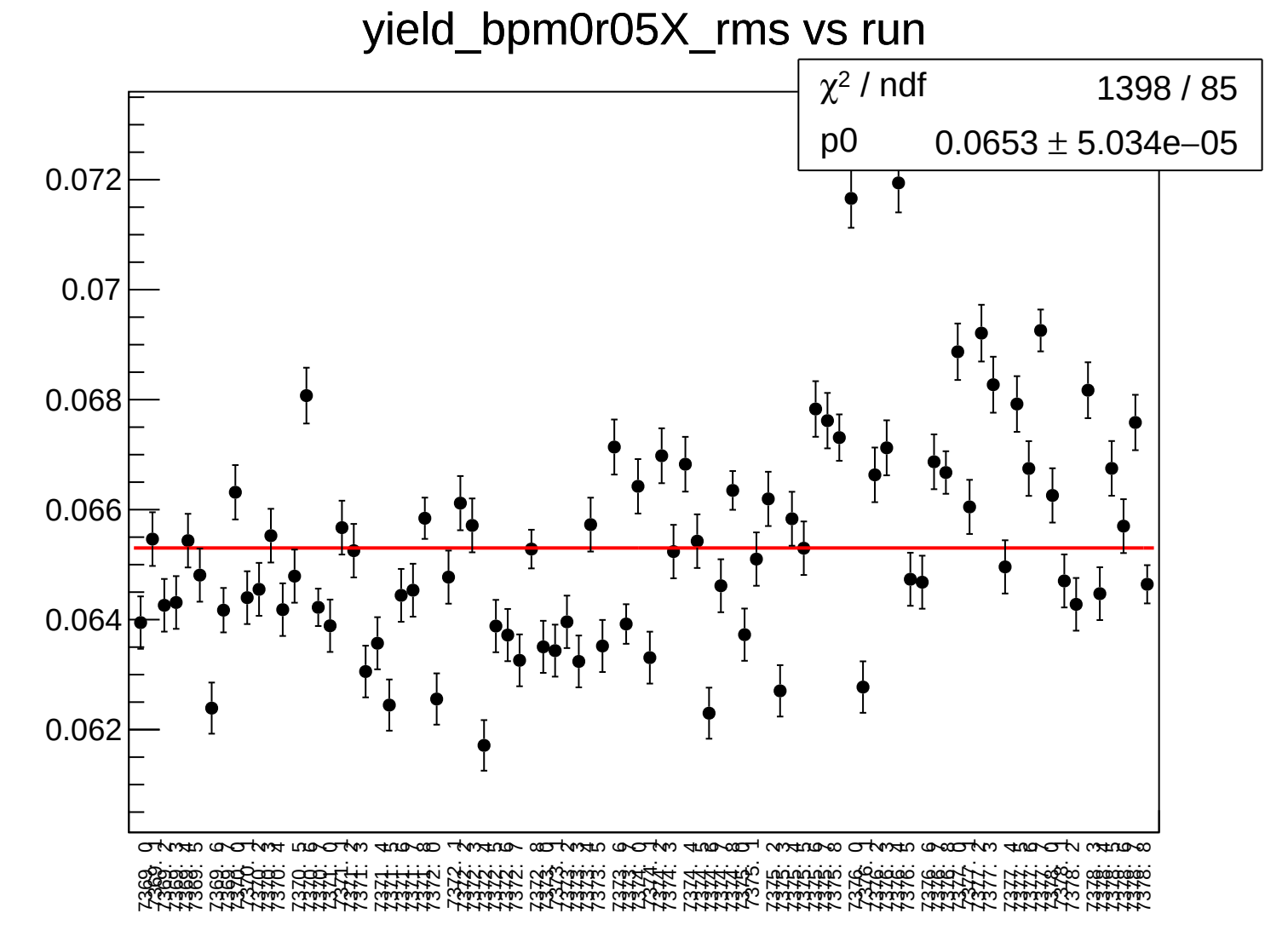

yield_bpm0r03X_rms vs run
χ² / ndf 1.167e+04 / 85
p0 0.05909 ± 4.57e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05

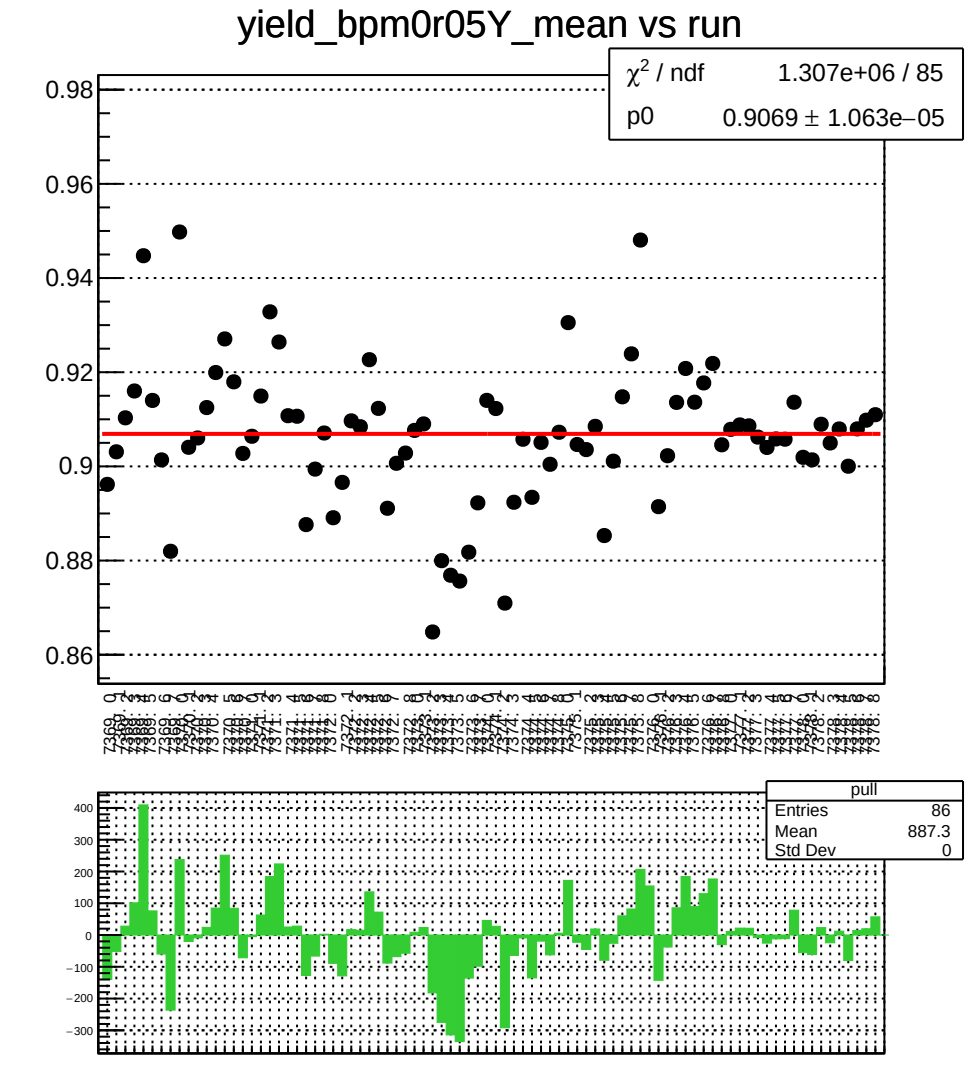

yield_bpm0r03Y_mean vs run
χ² / ndf 1.221e+06 / 85
p0 −0.5016 ± 8.37e−06
pull
Entries 86
Mean 79.38
Std Dev 0
pull1D
Entries 86
Mean −4.238
Std Dev 2.454

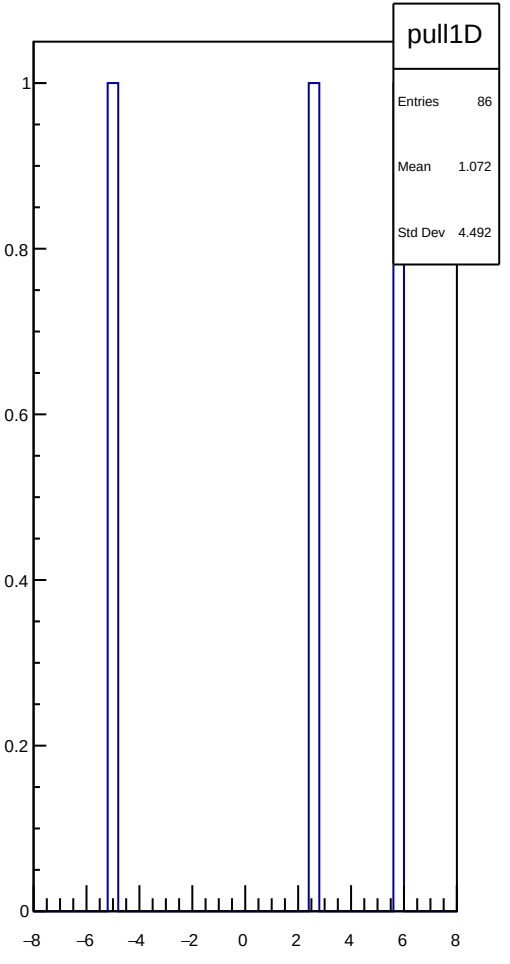

yield_bpm0r03Y_rms vs run
χ² / ndf 1.296e+05 / 85
p0 0.007379 ± 5.919e−06
0.03
0.025
0.02
0.015
0.01
0.005

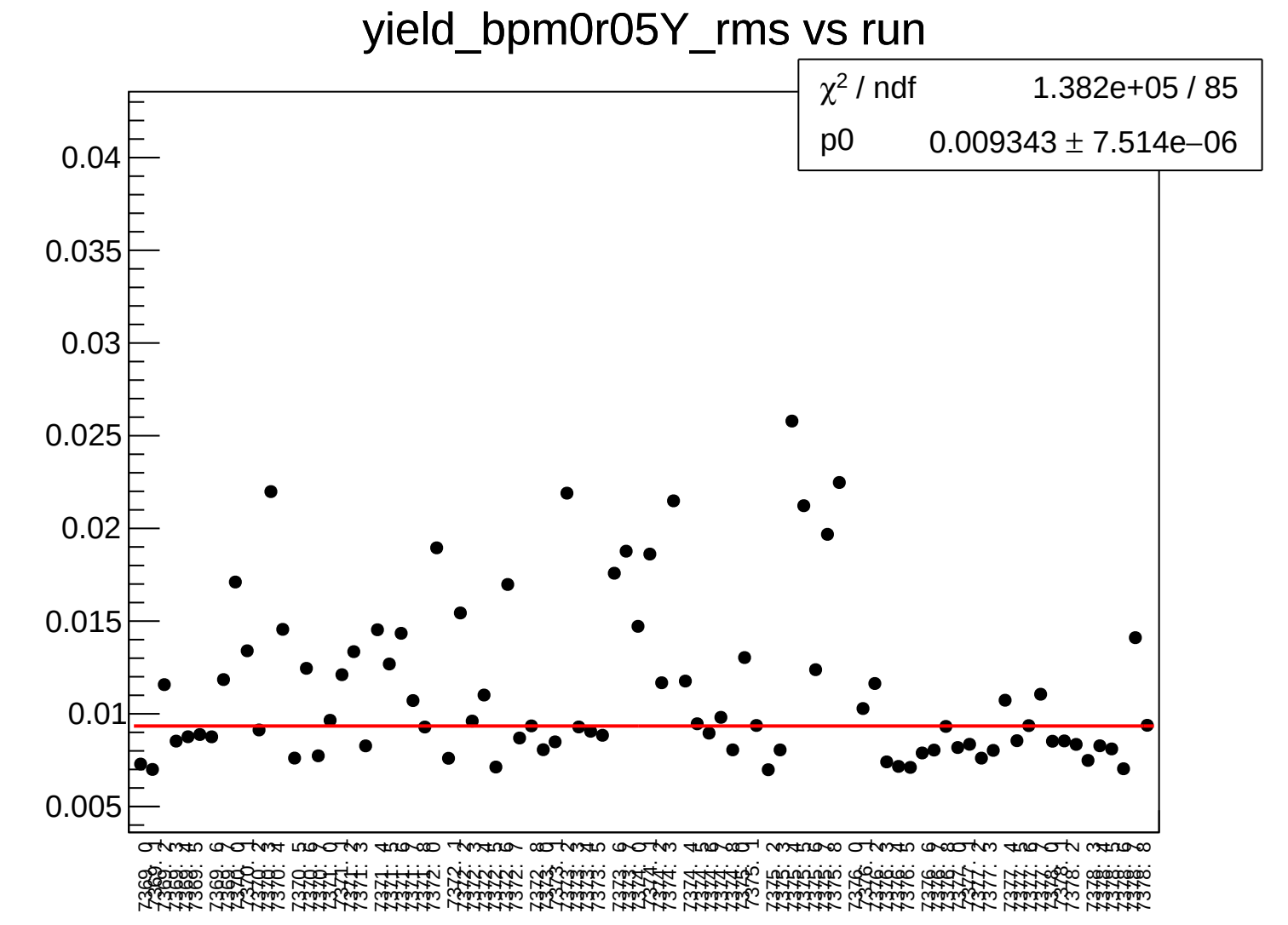

yield_bpm0r05X_mean vs run
χ² / ndf 1.834e+04 / 85
p0 −1.133 ± 7.119e−05
−1.11
−1.12
−1.13
−1.14
−1.15
−1.16
pull
Entries 86
Mean 693.1
Std Dev 0
30
20
10
0
−10
−20
−30
−40

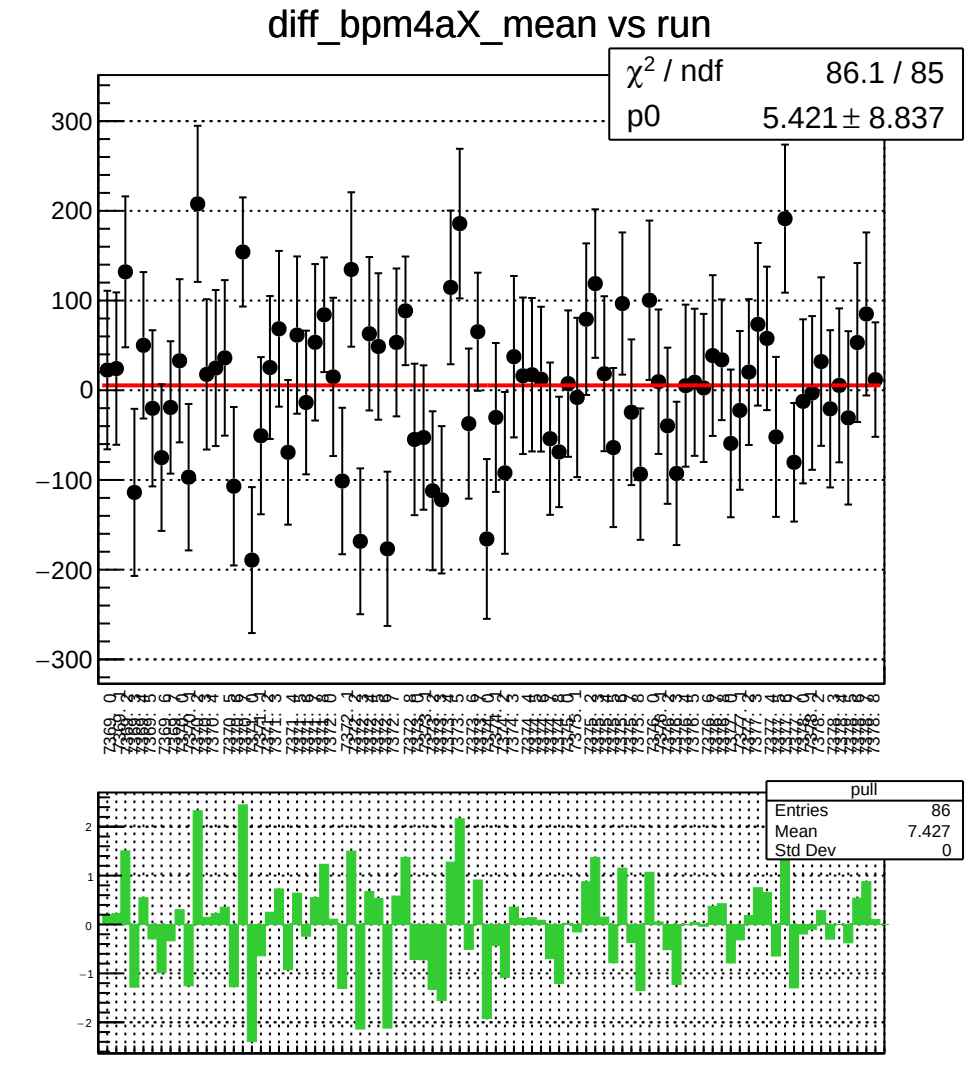

pull1D
Entries 86
Mean −1.135
Std Dev 4.311
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

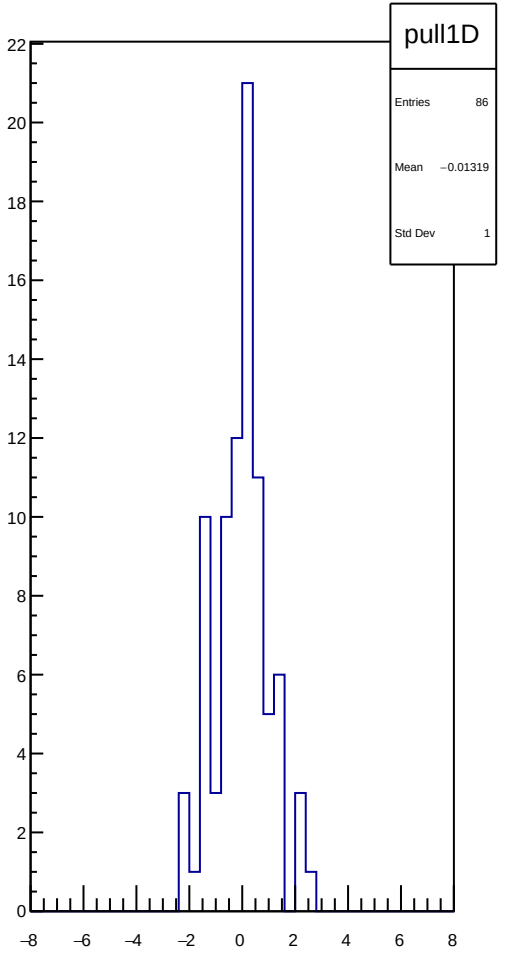

yield_bpm0r05X_rms vs run
χ² / ndf 1398 / 85
p0 0.0653 ± 5.034e−05
0.072
0.07
0.068
0.066
0.064
0.062

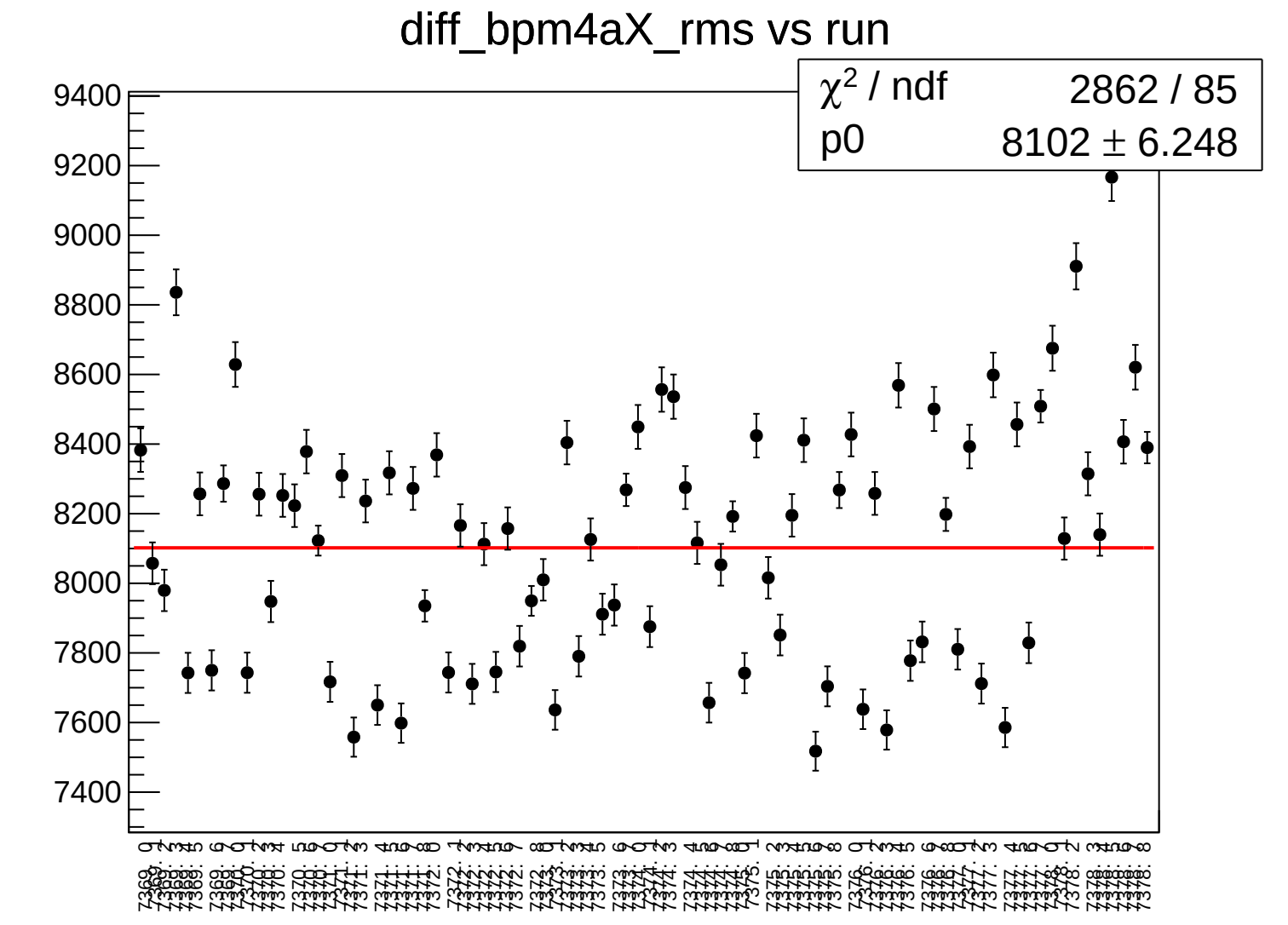

yield_bpm0r05Y_mean vs run
χ² / ndf 1.307e+06 / 85
p0 0.9069 ± 1.063e−05
0.98
0.96
0.94
0.92
0.9
0.88
0.86
pull
Entries 86
Mean 887.3
Std Dev 0
400
300
200
100
0
−100
−200
−300

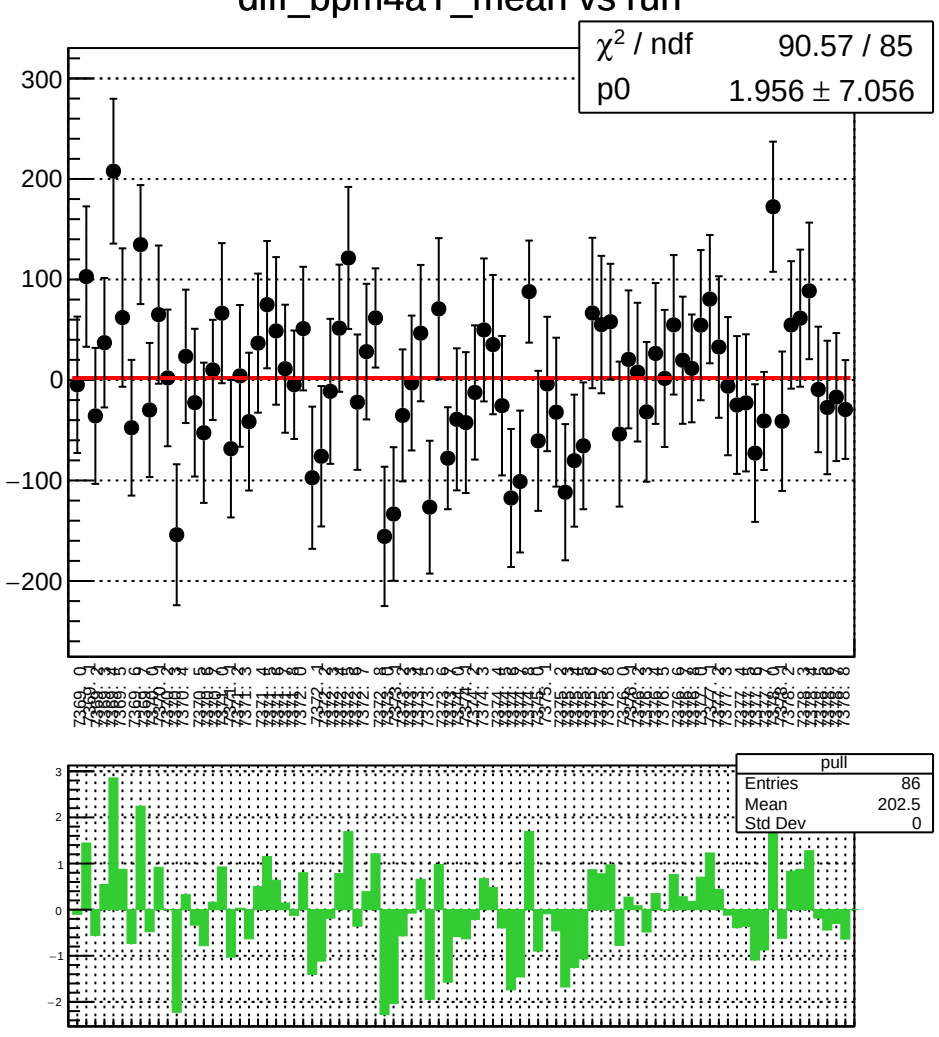

pull1D
Entries 86
Mean 1.072
Std Dev 4.492
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

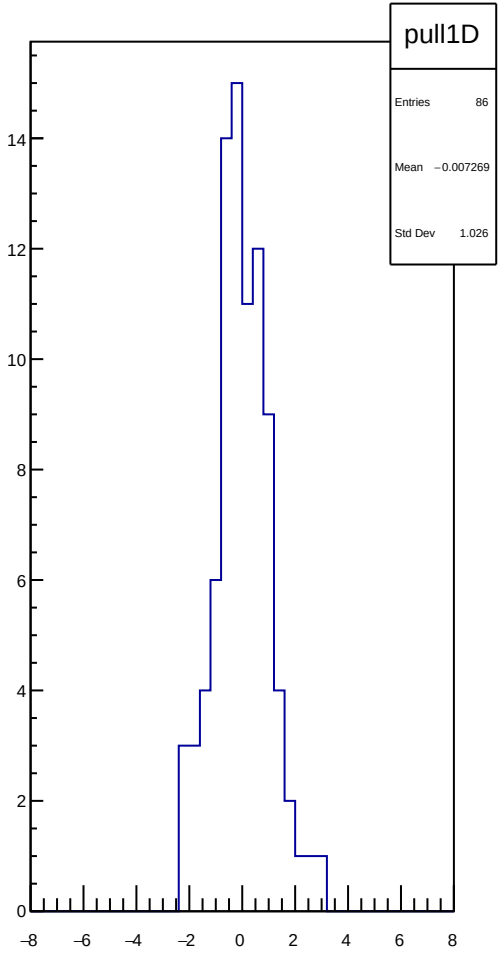

yield_bpm0r05Y_rms vs run
χ² / ndf 1.382e+05 / 85
p0 0.009343 ± 7.514e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

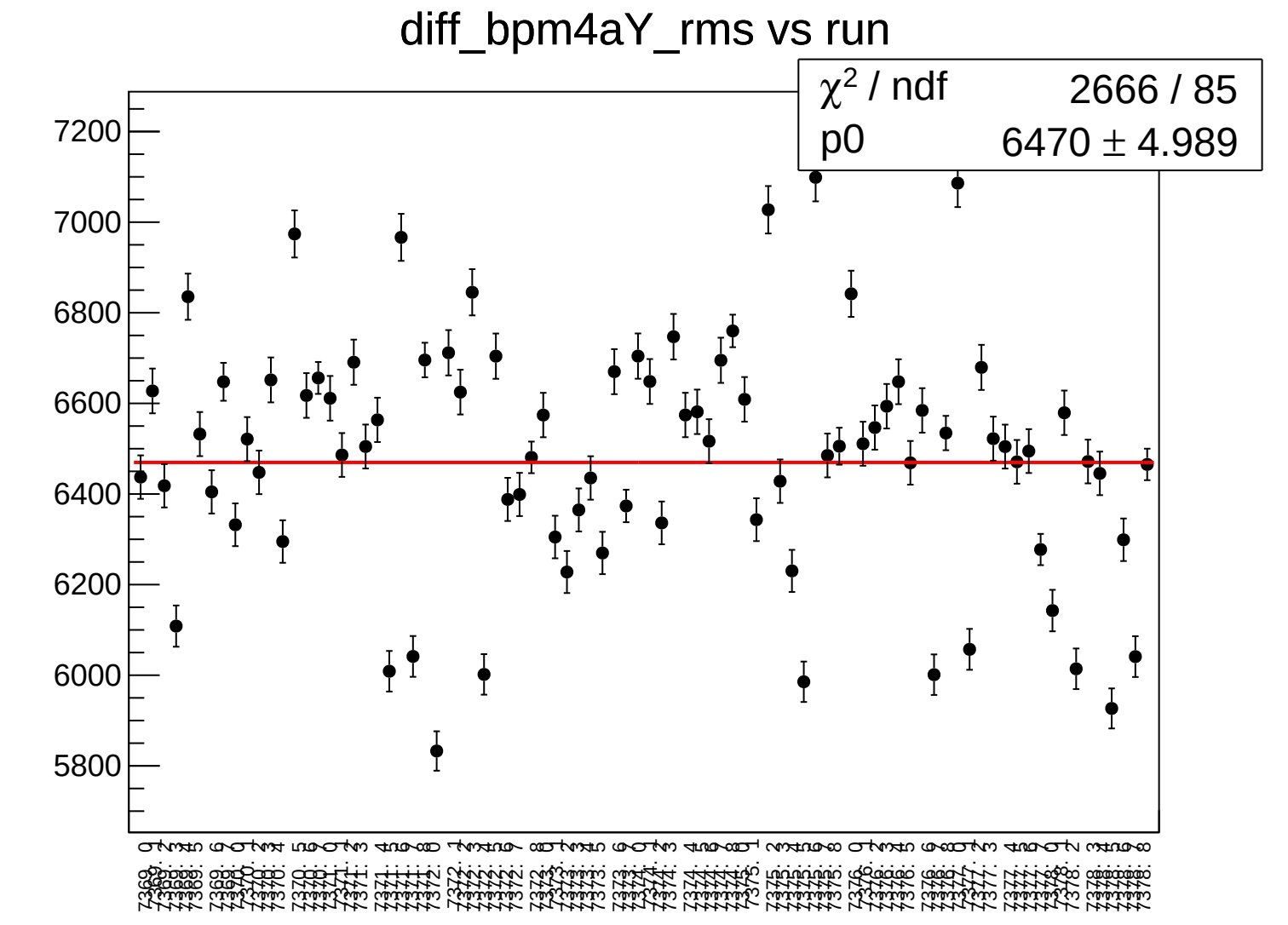

diff_bpm4aX_mean vs run
χ² / ndf 86.1 / 85
p0 5.421 ± 8.837
pull
Entries 86
Mean 7.427
Std Dev 0

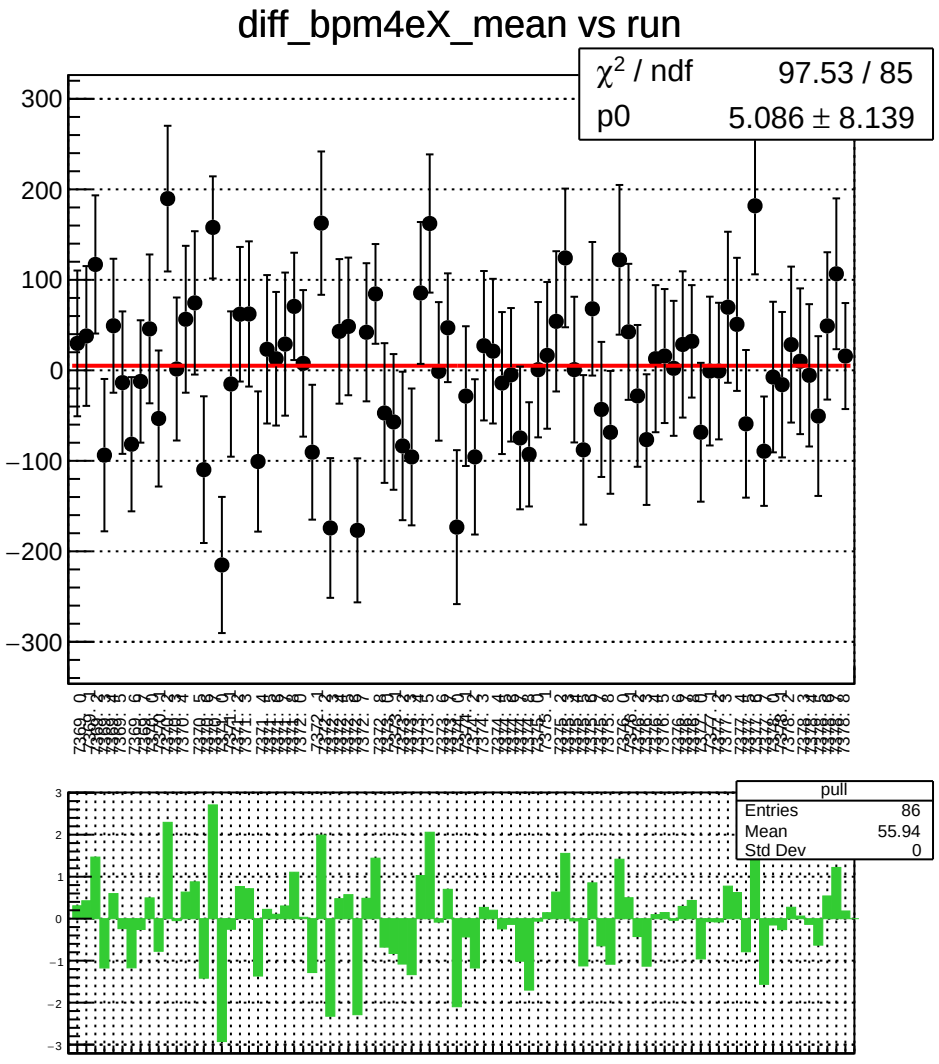

pull1D
Entries 86
Mean −0.01319
Std Dev 1

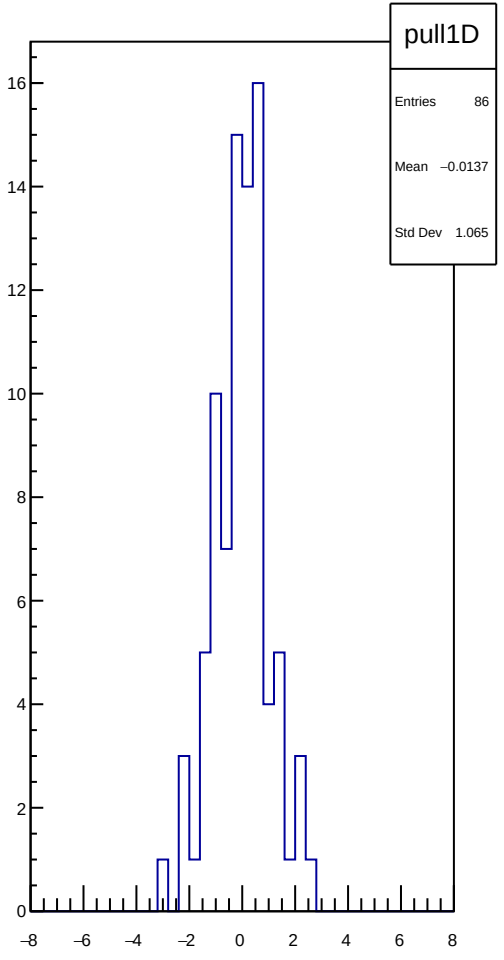

diff_bpm4aX_rms vs run
χ^2 / ndf 2862 / 85
p0 8102 ± 6.248
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

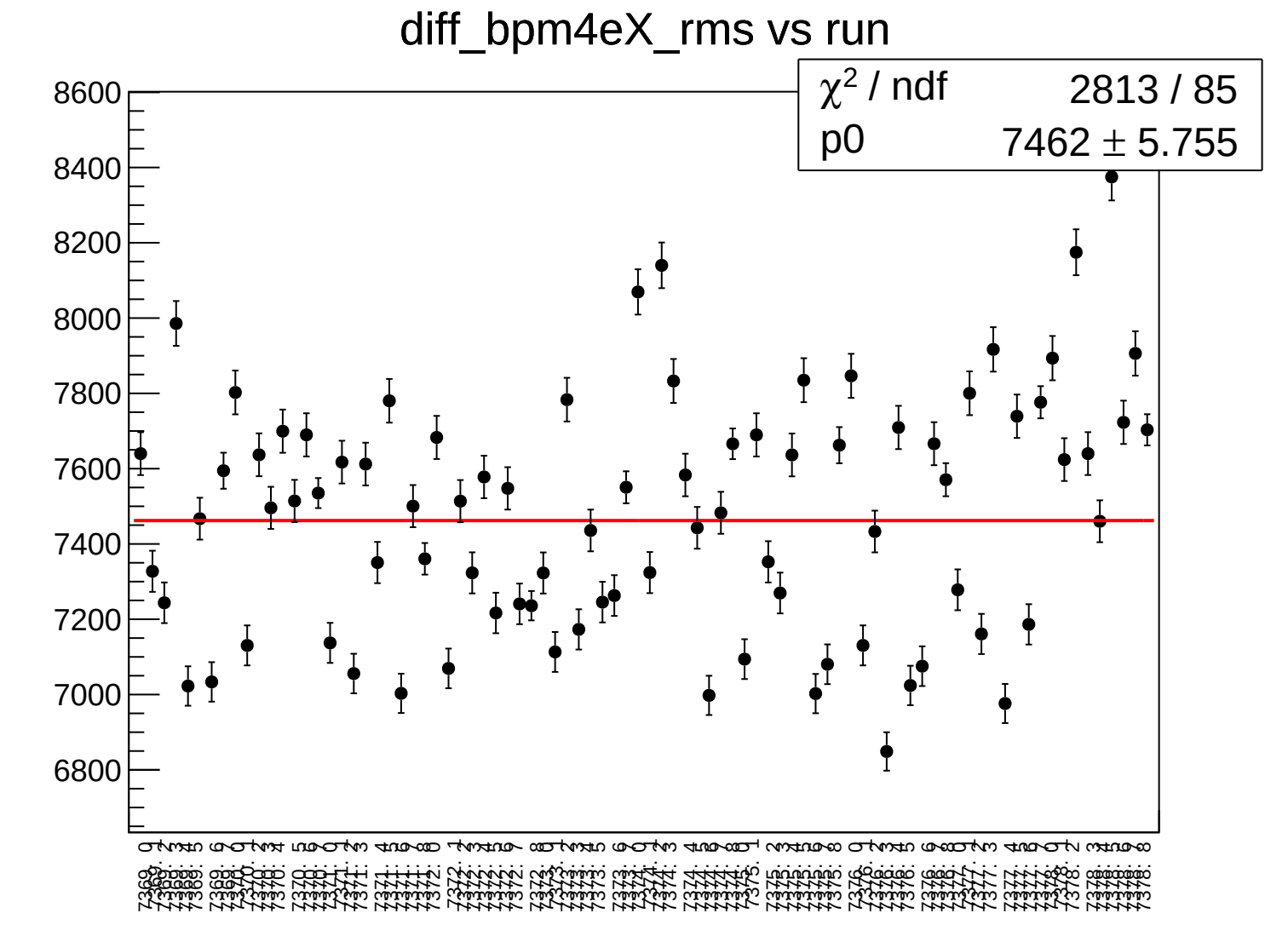

diff_bpm4aY_mean vs run
χ² / ndf 90.57 / 85
p0 1.956 ± 7.056
pull
Entries 86
Mean 202.5
Std Dev 0

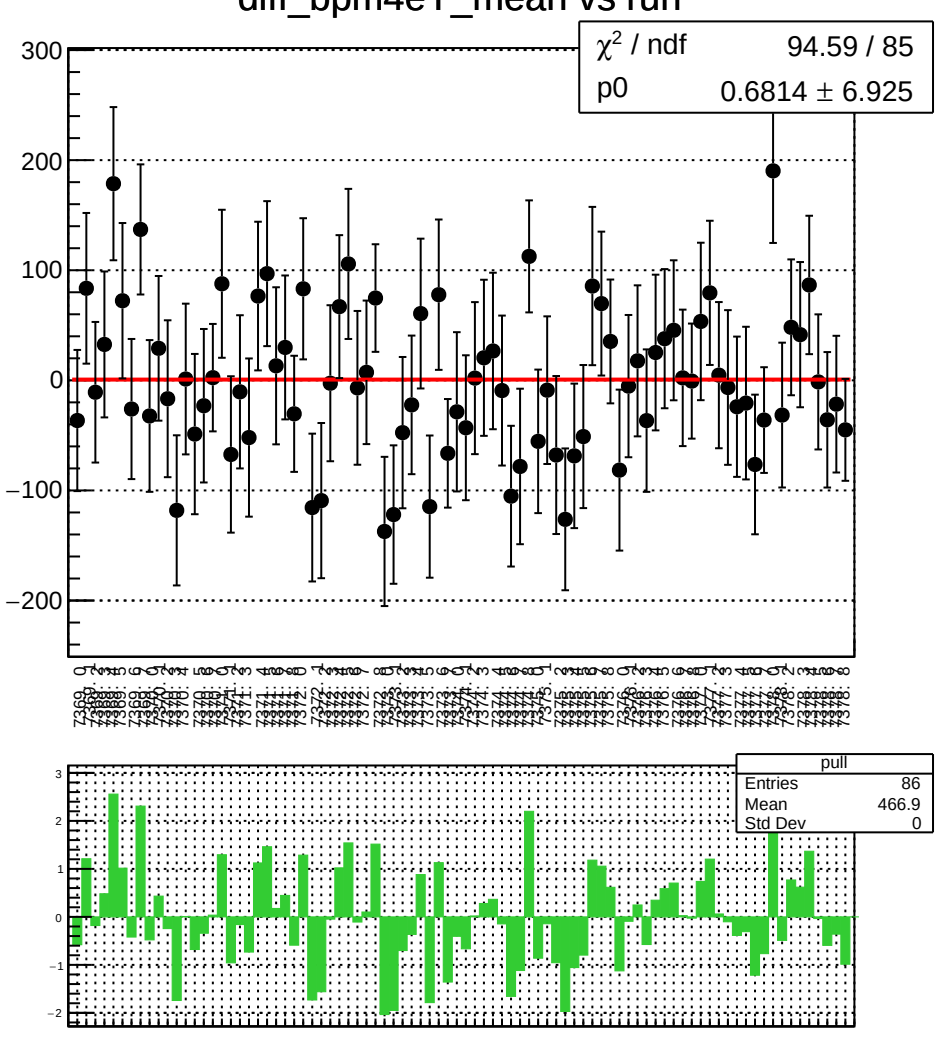

pull1D
Entries 86
Mean −0.007269
Std Dev 1.026

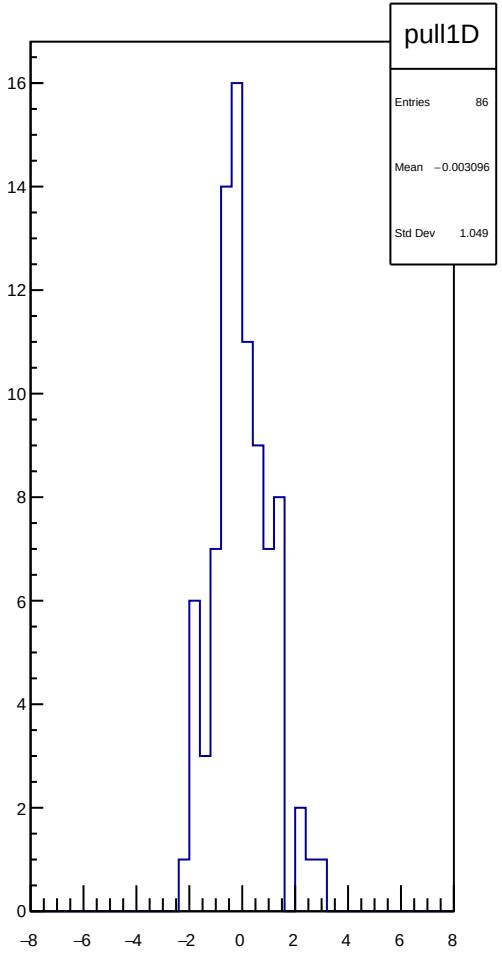

diff_bpm4aY_rms vs run
χ² / ndf 2666 / 85
p0 6470 ± 4.989
7200
7000
6800
6600
6400
6200
6000
5800

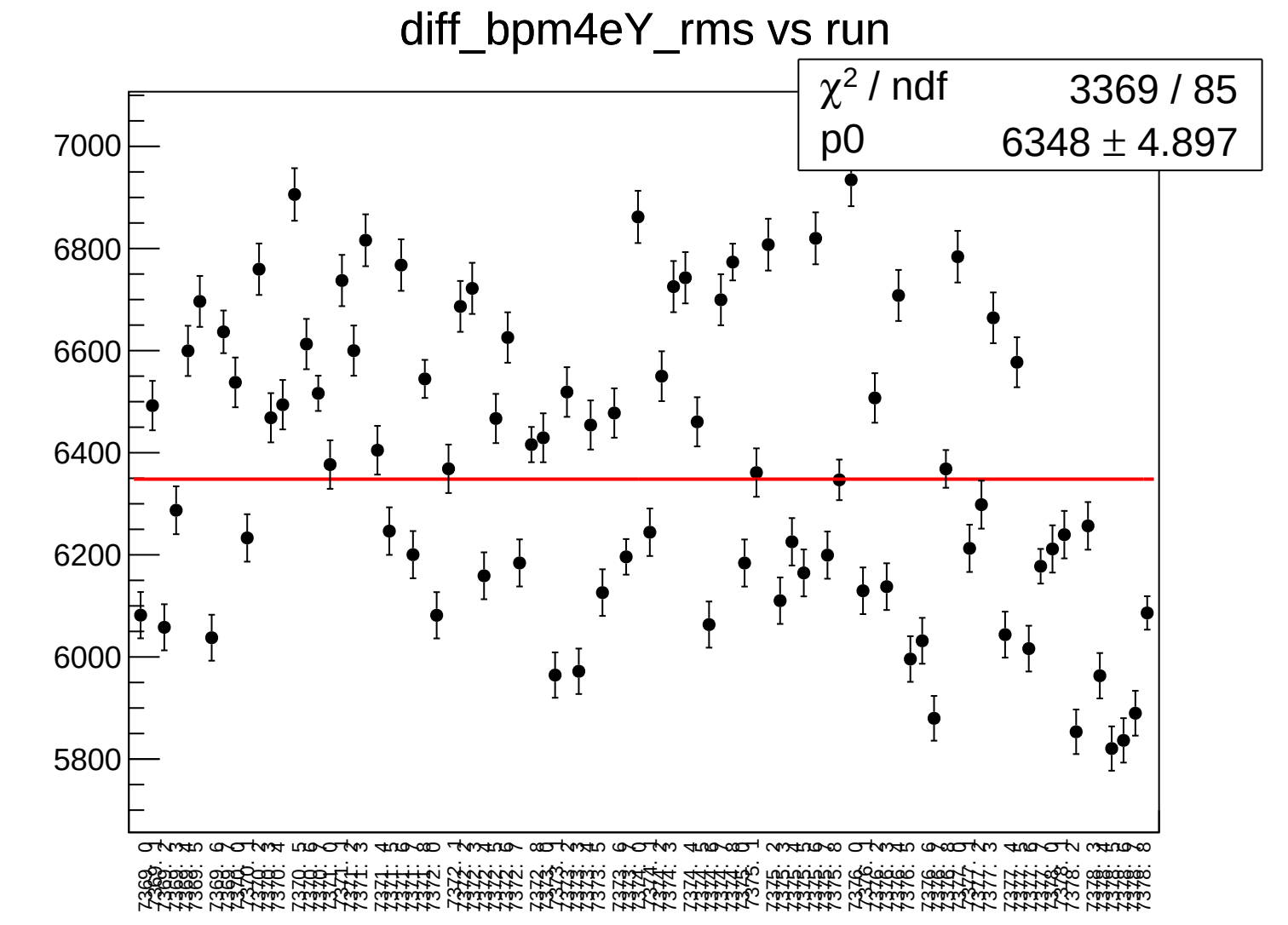

diff_bpm4eX_mean vs run
χ² / ndf 97.53 / 85
p0 5.086 ± 8.139
pull
Entries 86
Mean 55.94
Std Dev 0

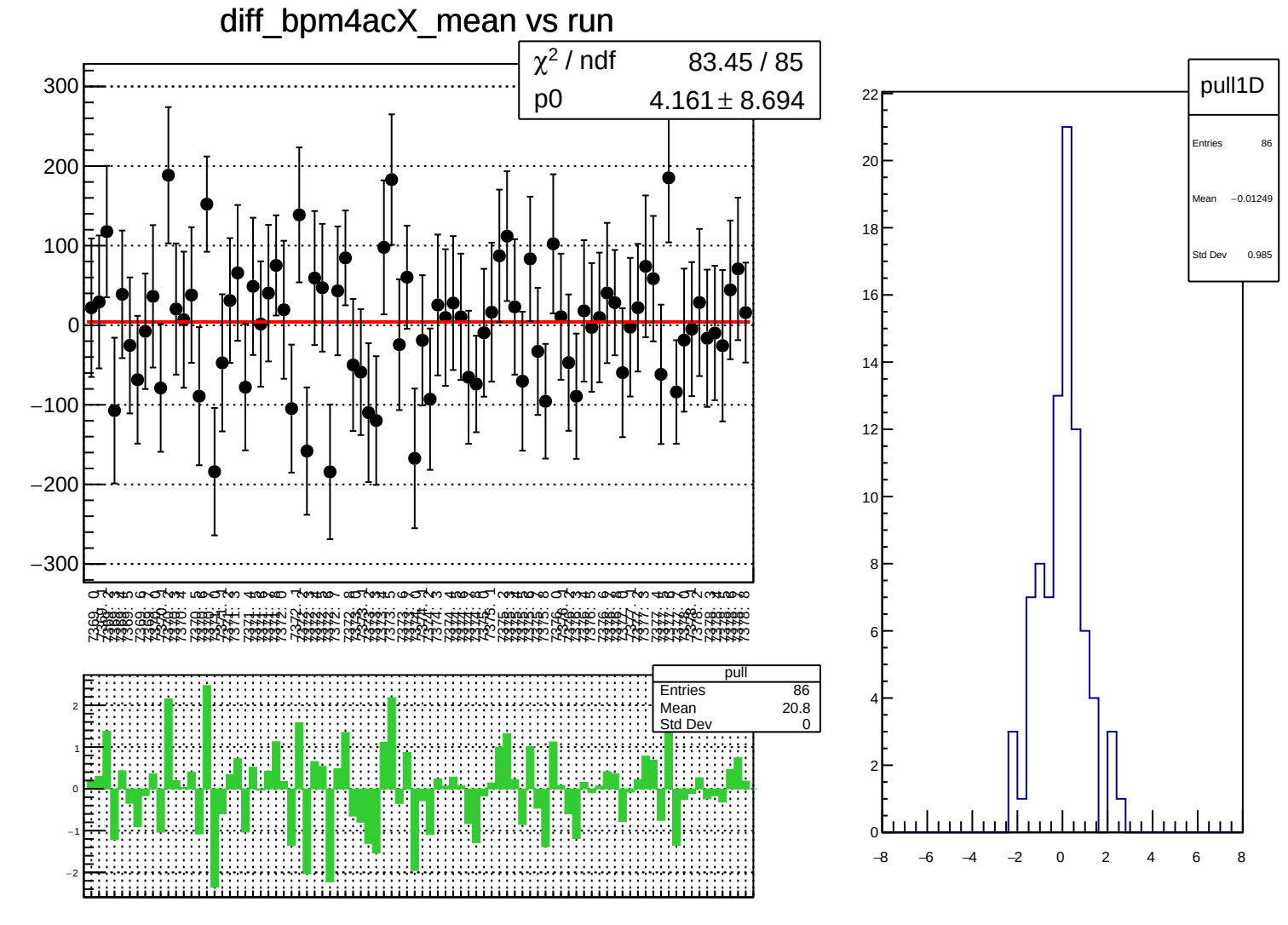

pull1D
Entries 86
Mean −0.0137
Std Dev 1.065

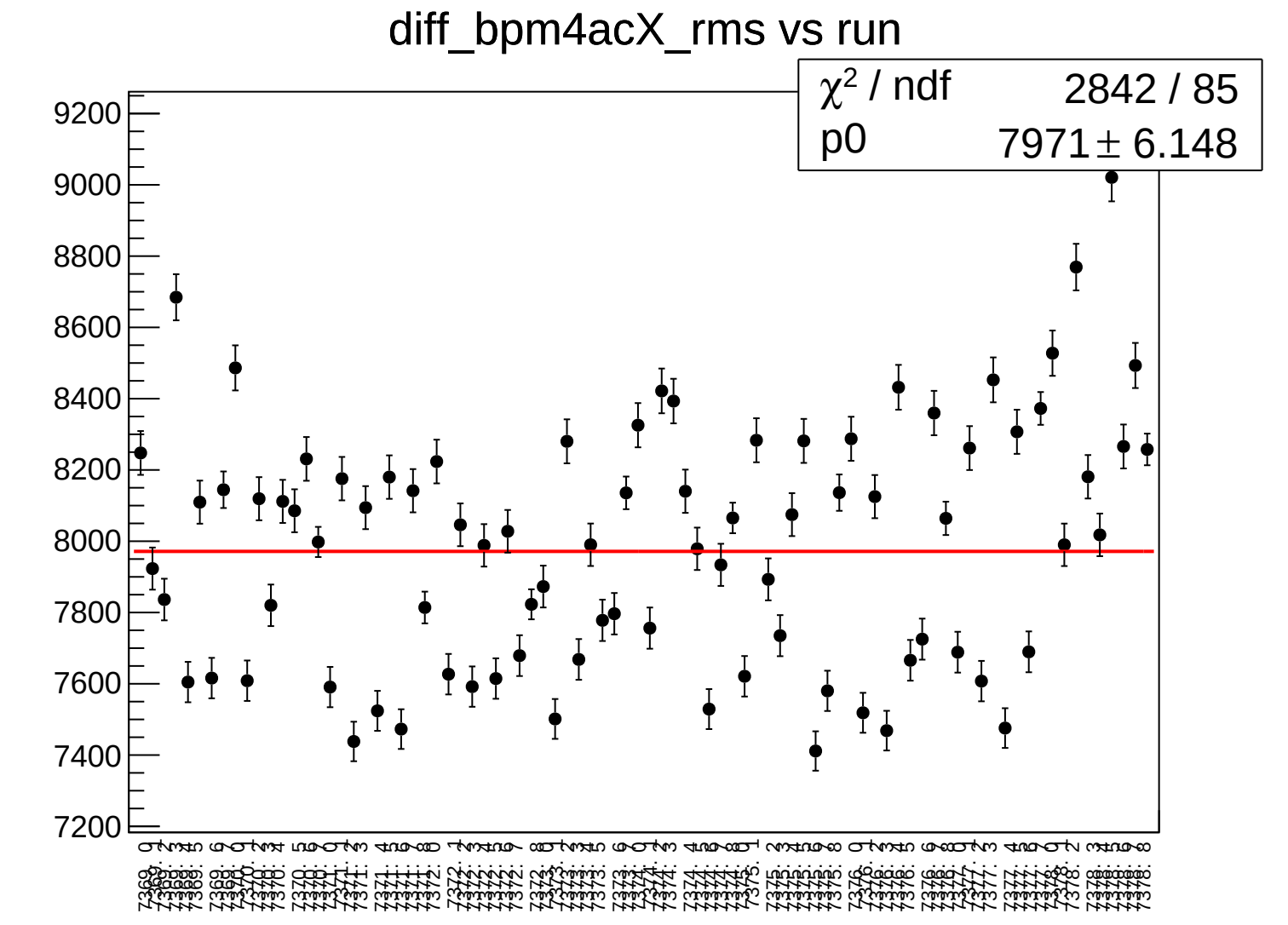

diff_bpm4eX_rms vs run
χ² / ndf 2813 / 85
p0 7462 ± 5.755
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

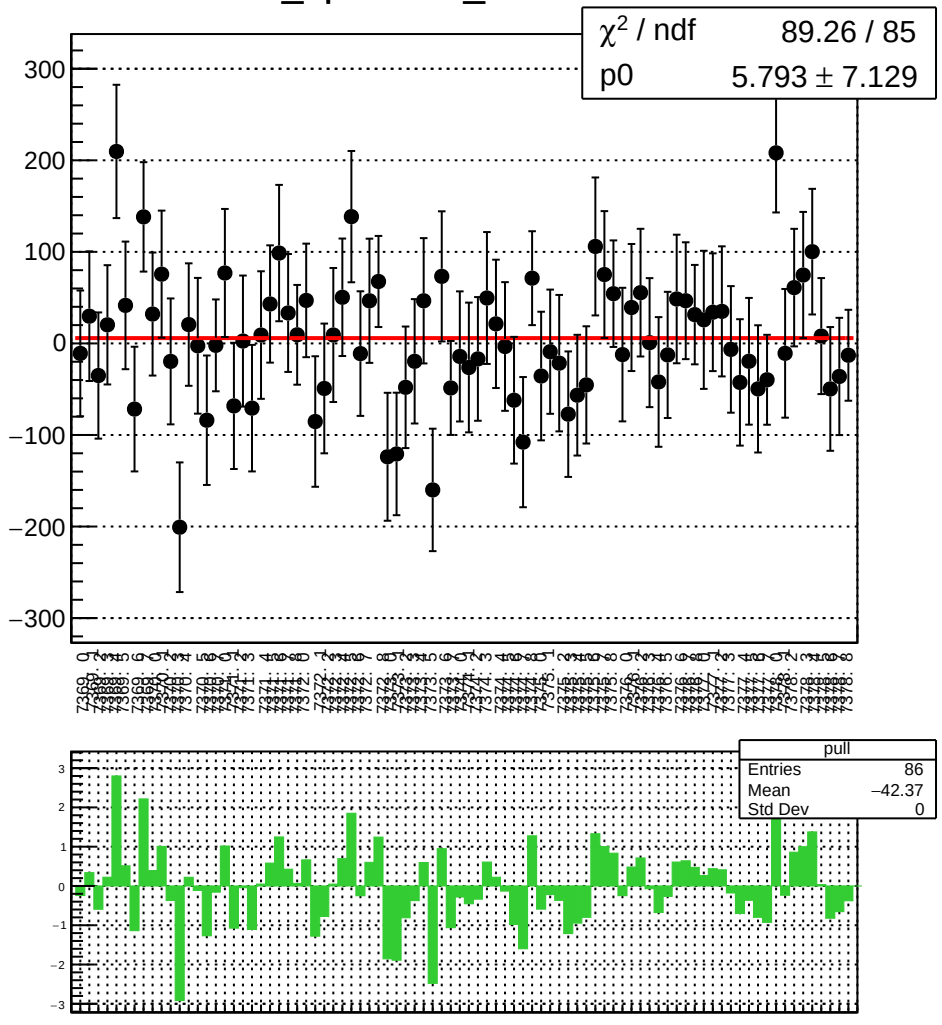

diff_bpm4eY_mean vs run
χ² / ndf 94.59 / 85
p0 0.6814 ± 6.925
pull
Entries 86
Mean 466.9
Std Dev 0

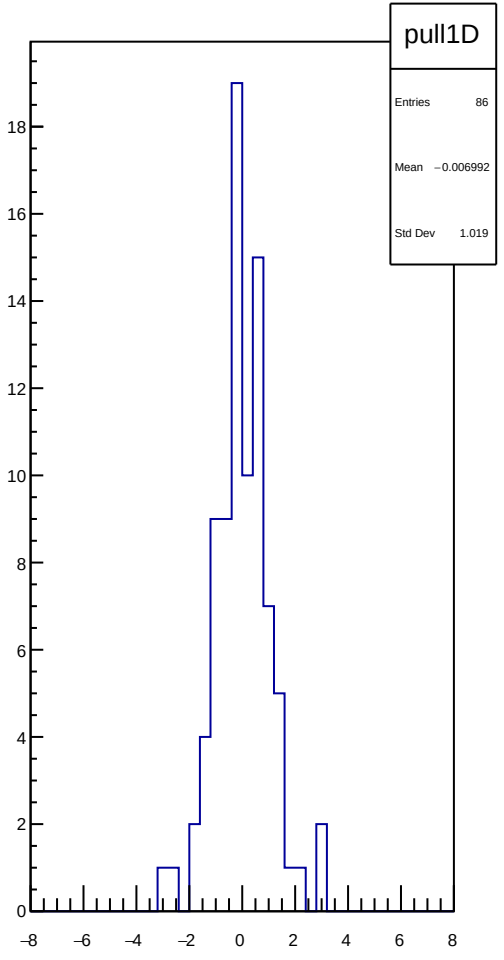

pull1D
Entries 86
Mean −0.003096
Std Dev 1.049

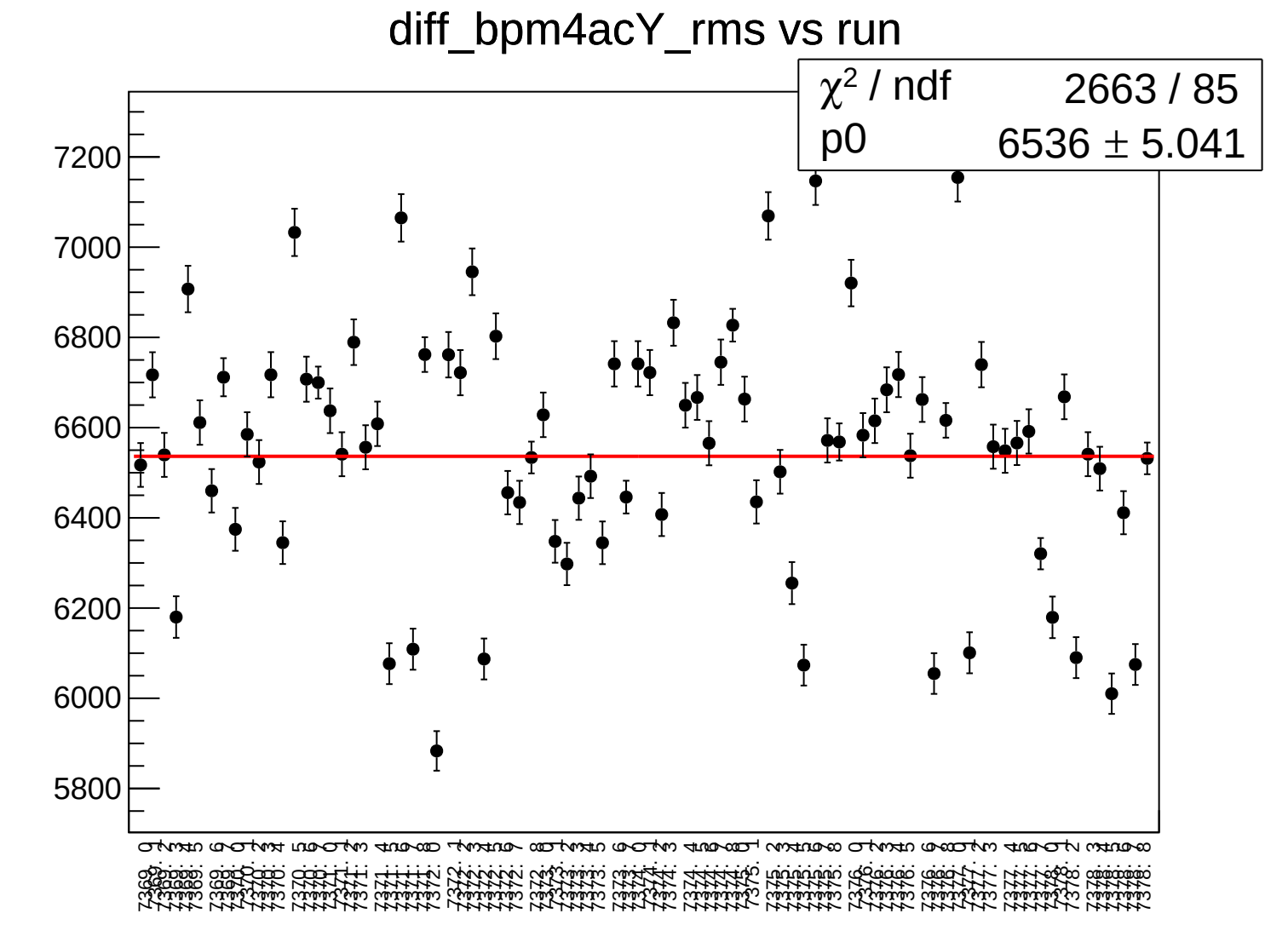

diff_bpm4eY_rms vs run
χ² / ndf 3369 / 85
p0 6348 ± 4.897
7000
6800
6600
6400
6200
6000
5800

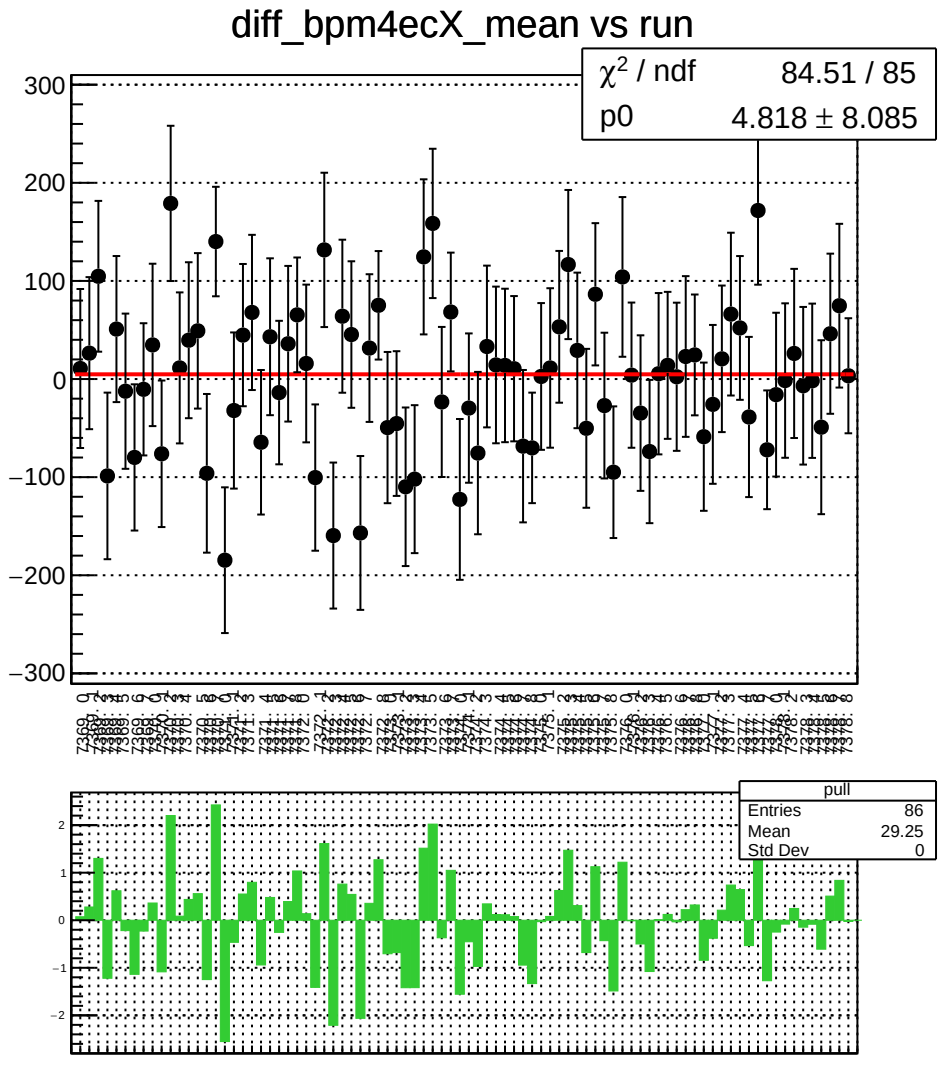

diff_bpm4acX_mean vs run
χ² / ndf 83.45 / 85
p0 4.161 ± 8.694
pull
Entries 86
Mean 20.8
Std Dev 0
pull1D
Entries 86
Mean −0.01249
Std Dev 0.985

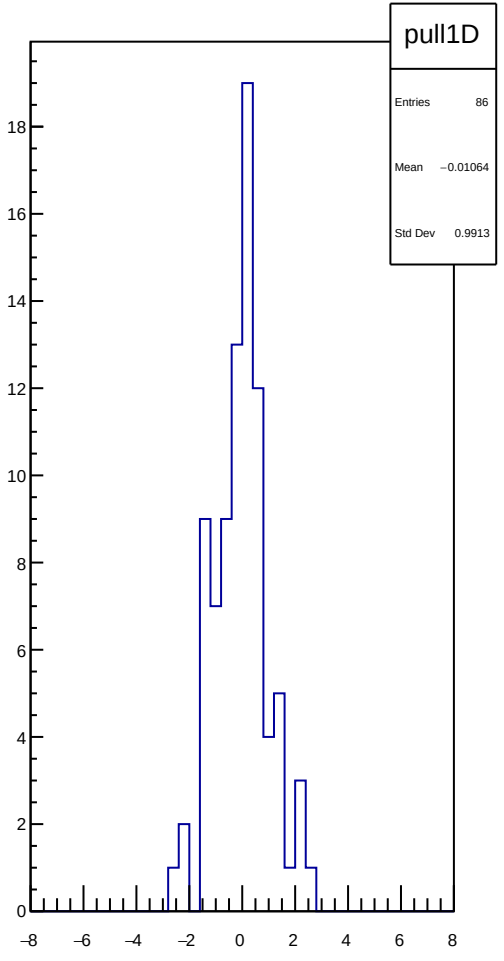

diff_bpm4acX_rms vs run
χ² / ndf 2842 / 85
p0 7971 ± 6.148
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

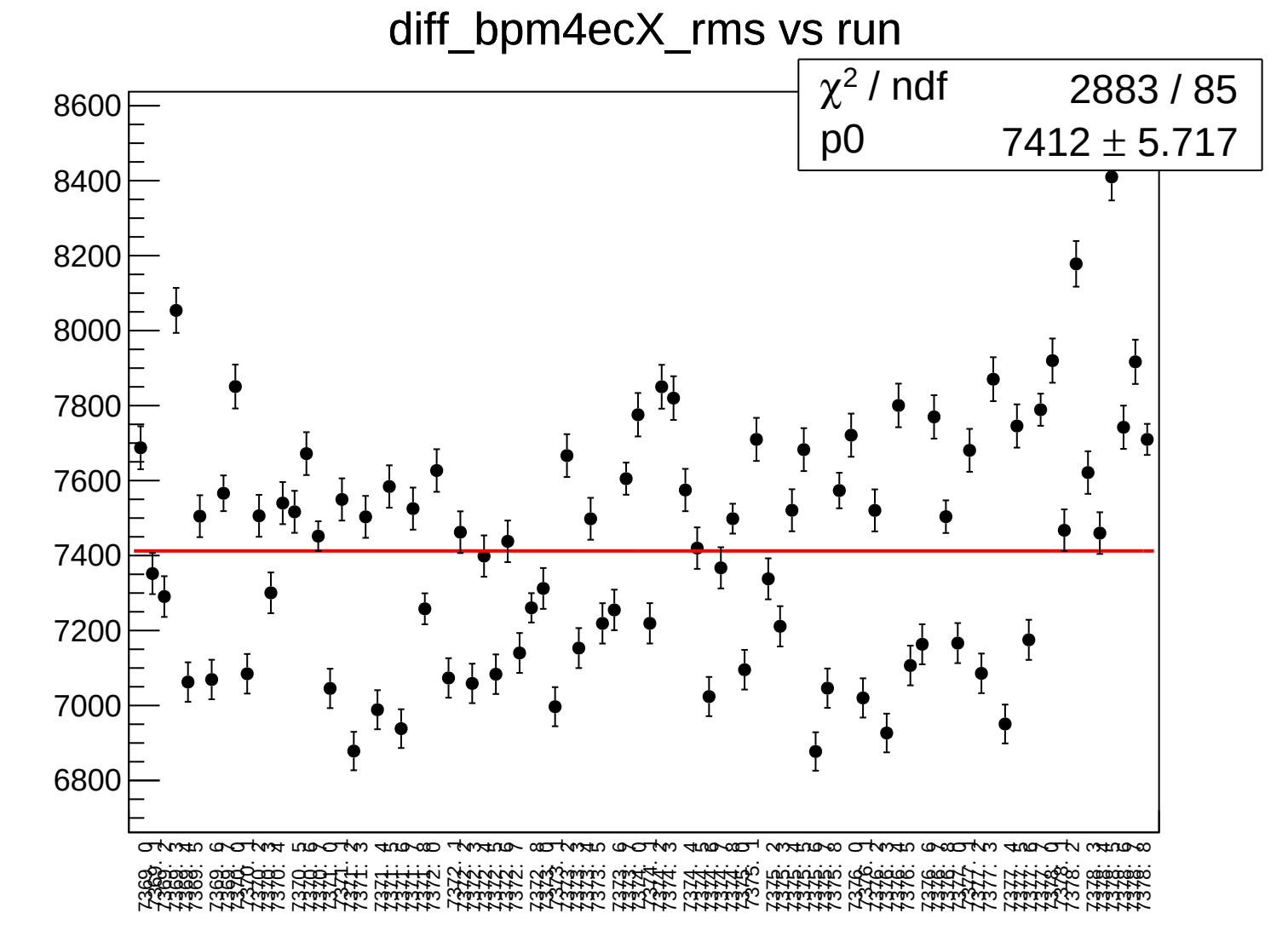

diff_bpm4acY_mean vs run
χ² / ndf 89.26 / 85
p0 5.793 ± 7.129
pull
Entries 86
Mean −42.37
Std Dev 0

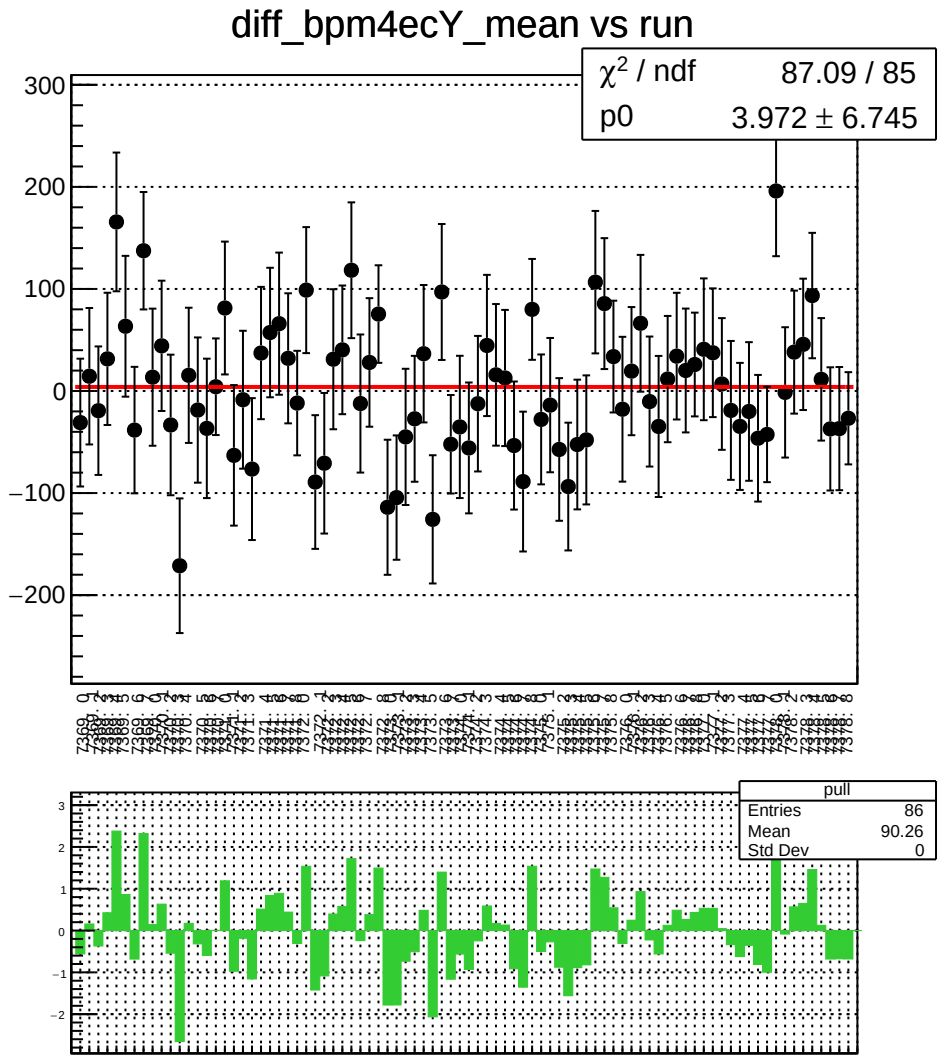

pull1D
Entries 86
Mean −0.006992
Std Dev 1.019

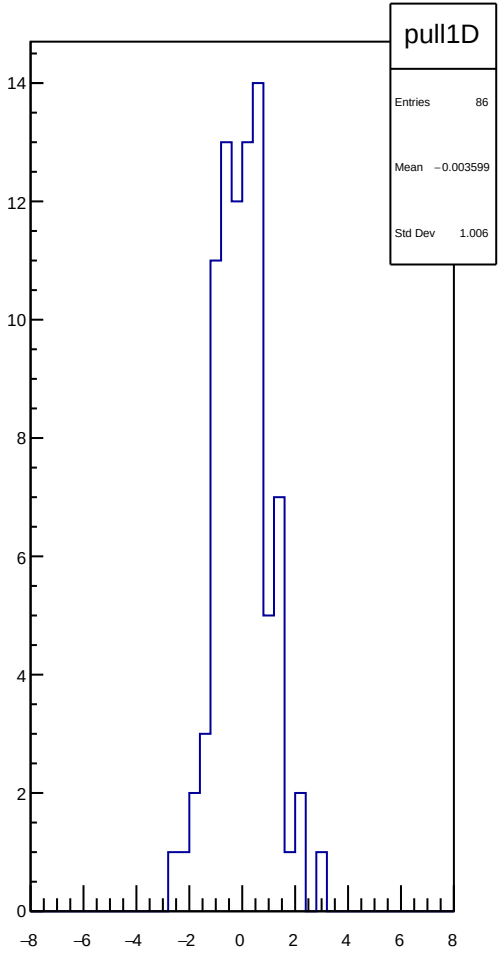

diff_bpm4acY_rms vs run
χ² / ndf 2663 / 85
p0 6536 ± 5.041
7200
7000
6800
6600
6400
6200
6000
5800

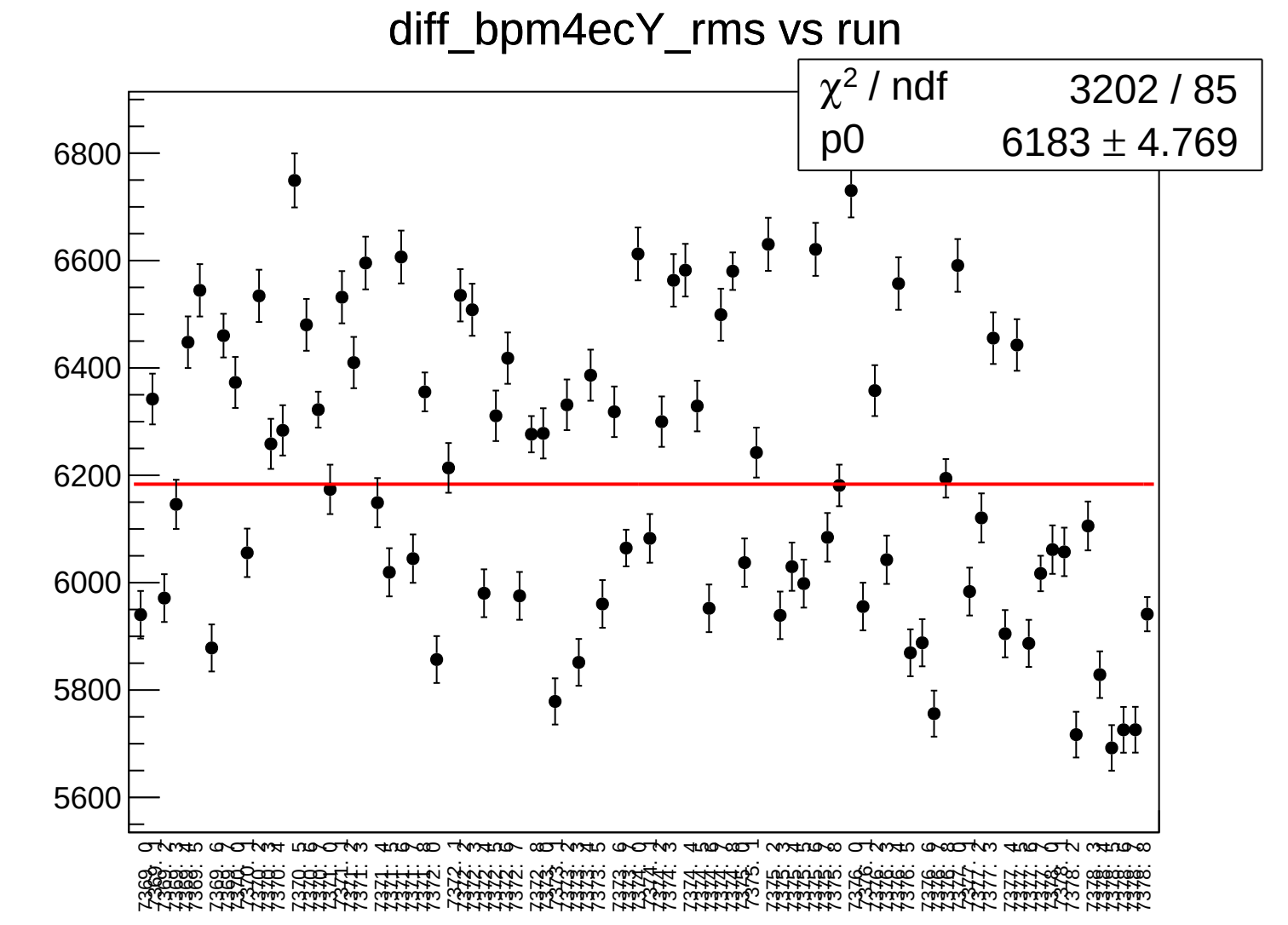

diff_bpm4ecX_mean vs run
χ² / ndf 84.51 / 85
p0 4.818 ± 8.085
pull
Entries 86
Mean 29.25
Std Dev 0

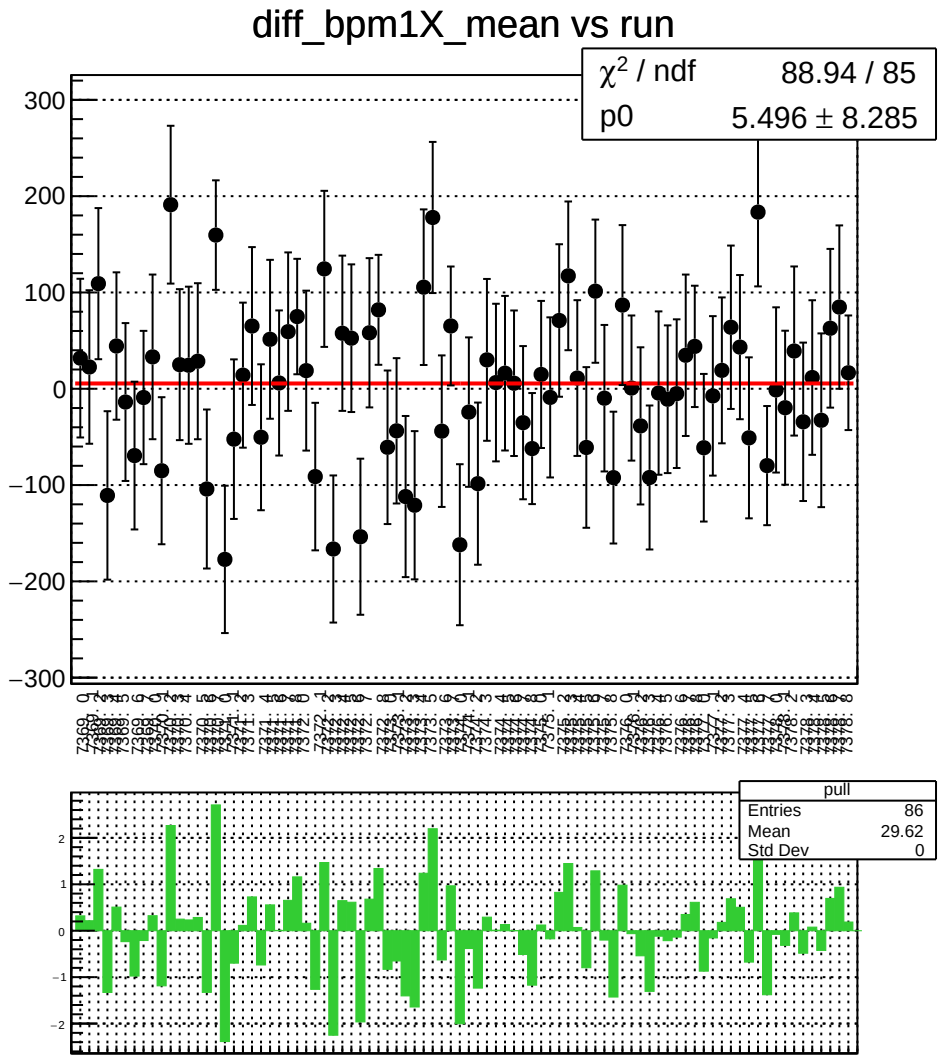

pull1D
Entries 86
Mean −0.01064
Std Dev 0.9913

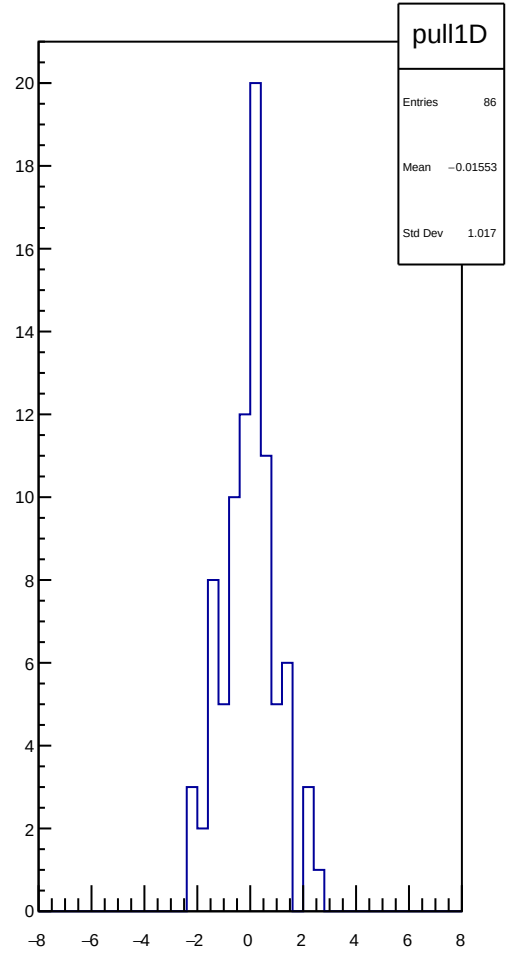

diff_bpm4ecX_rms vs run
χ² / ndf 2883 / 85
p0 7412 ± 5.717
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

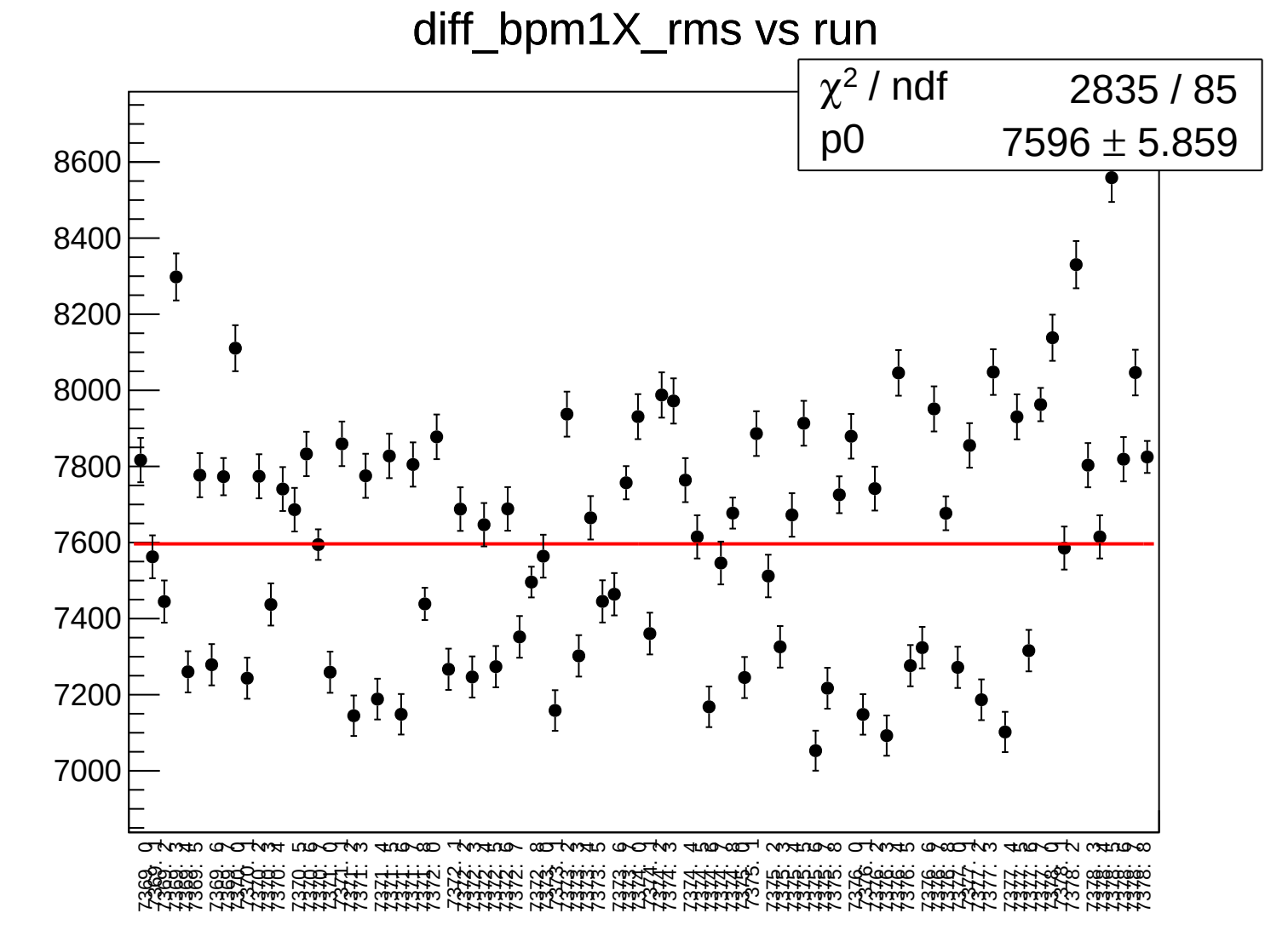

diff_bpm4ecY_mean vs run
χ² / ndf 87.09 / 85
p0 3.972 ± 6.745
pull
Entries 86
Mean 90.26
Std Dev 0

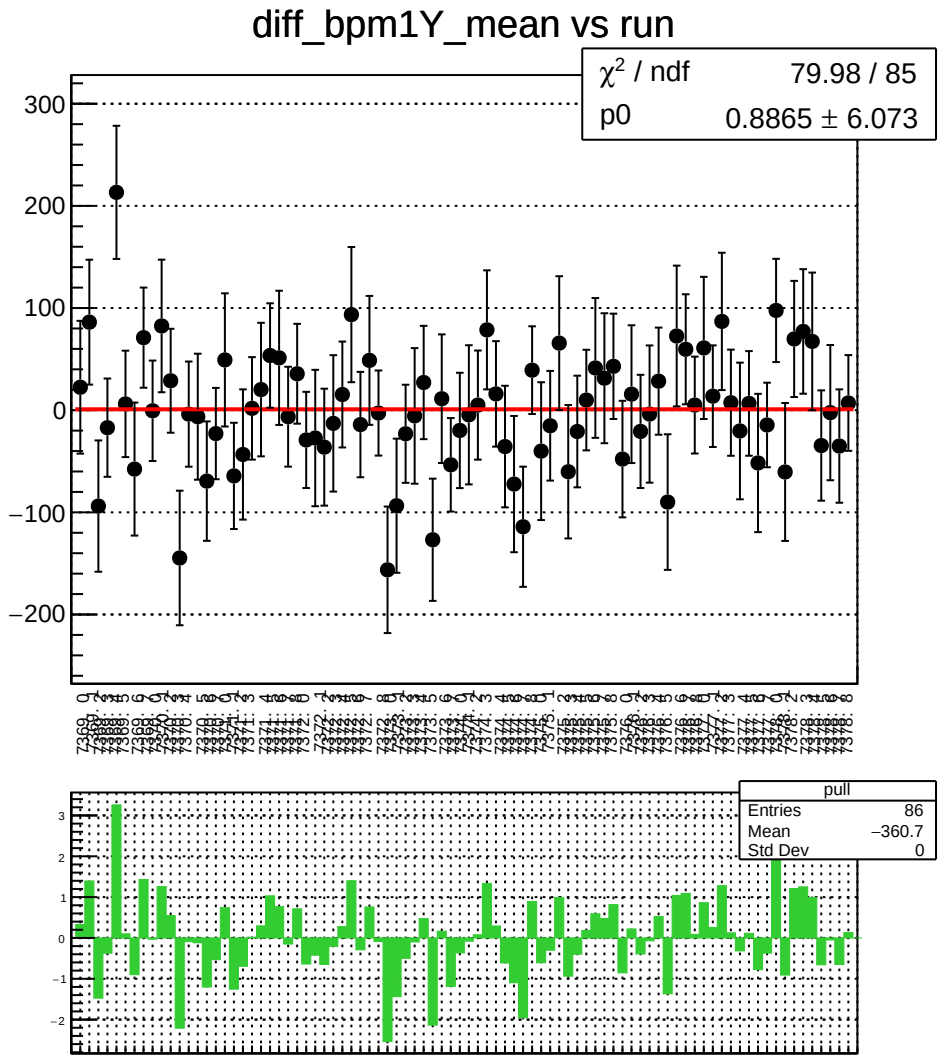

pull1D
Entries 86
Mean −0.003599
Std Dev 1.006

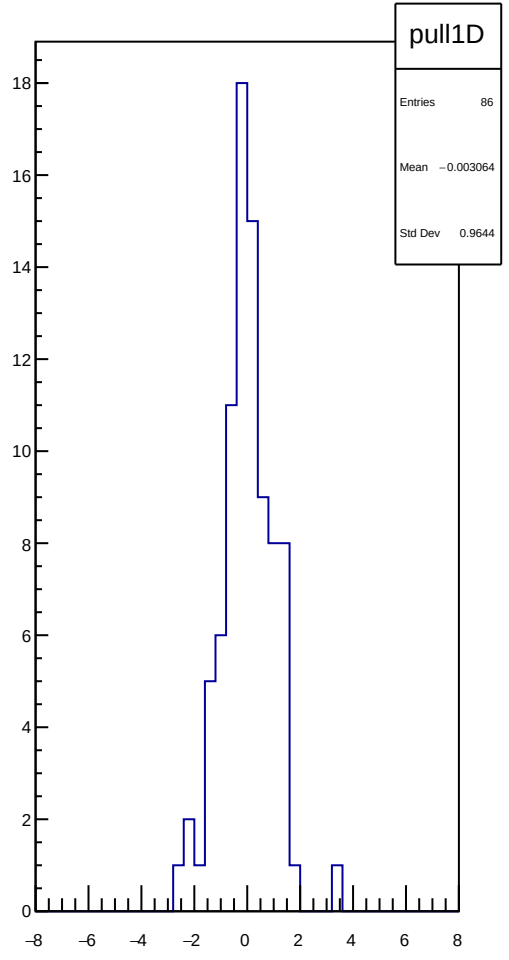

diff_bpm4ecY_rms vs run
χ² / ndf 3202 / 85
p0 6183 ± 4.769
6800
6600
6400
6200
6000
5800
5600

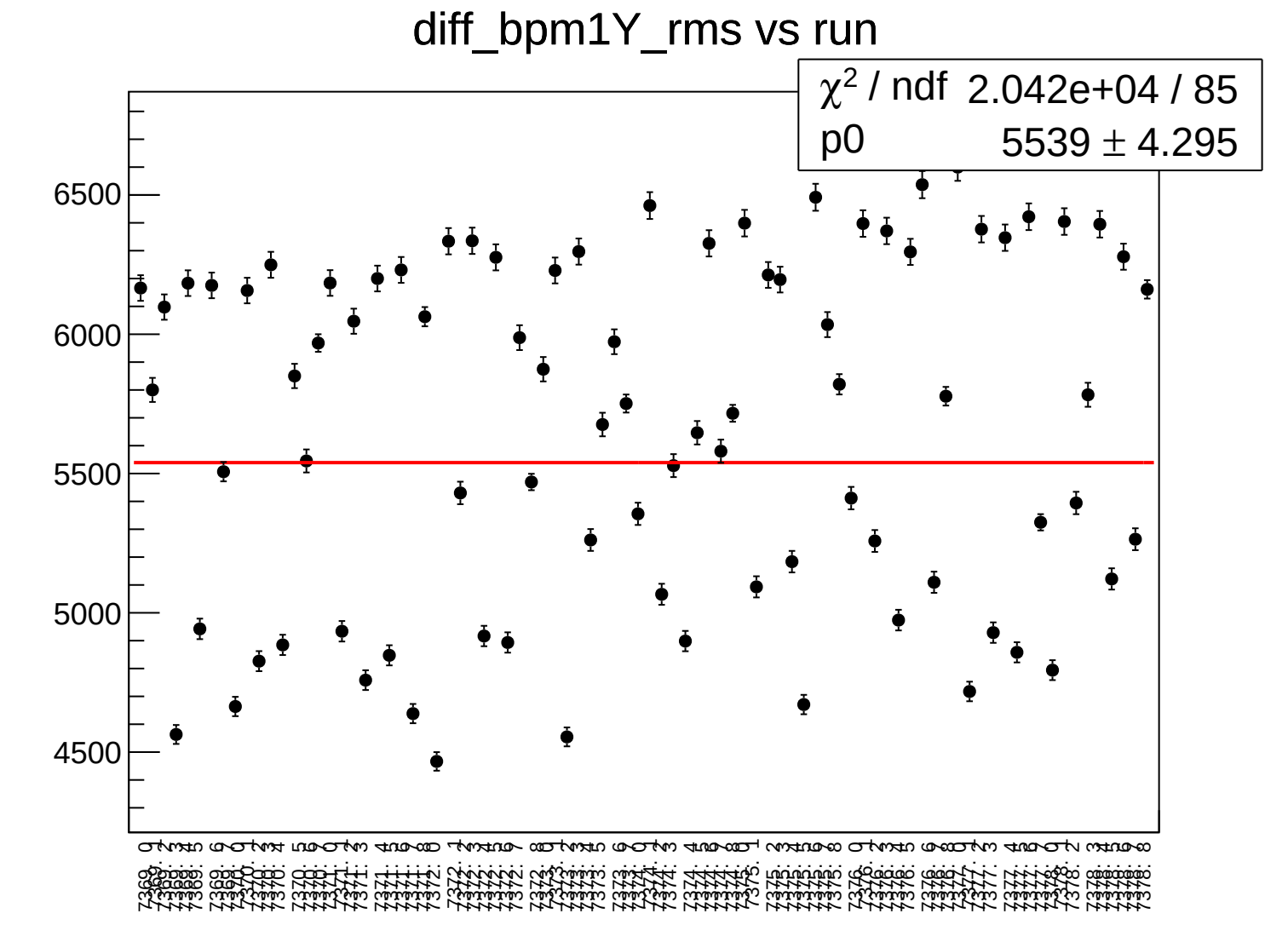

diff_bpm1X_mean vs run
χ^2 / ndf 88.94 / 85
p0 5.496 ± 8.285
pull
Entries 86
Mean 29.62
Std Dev 0

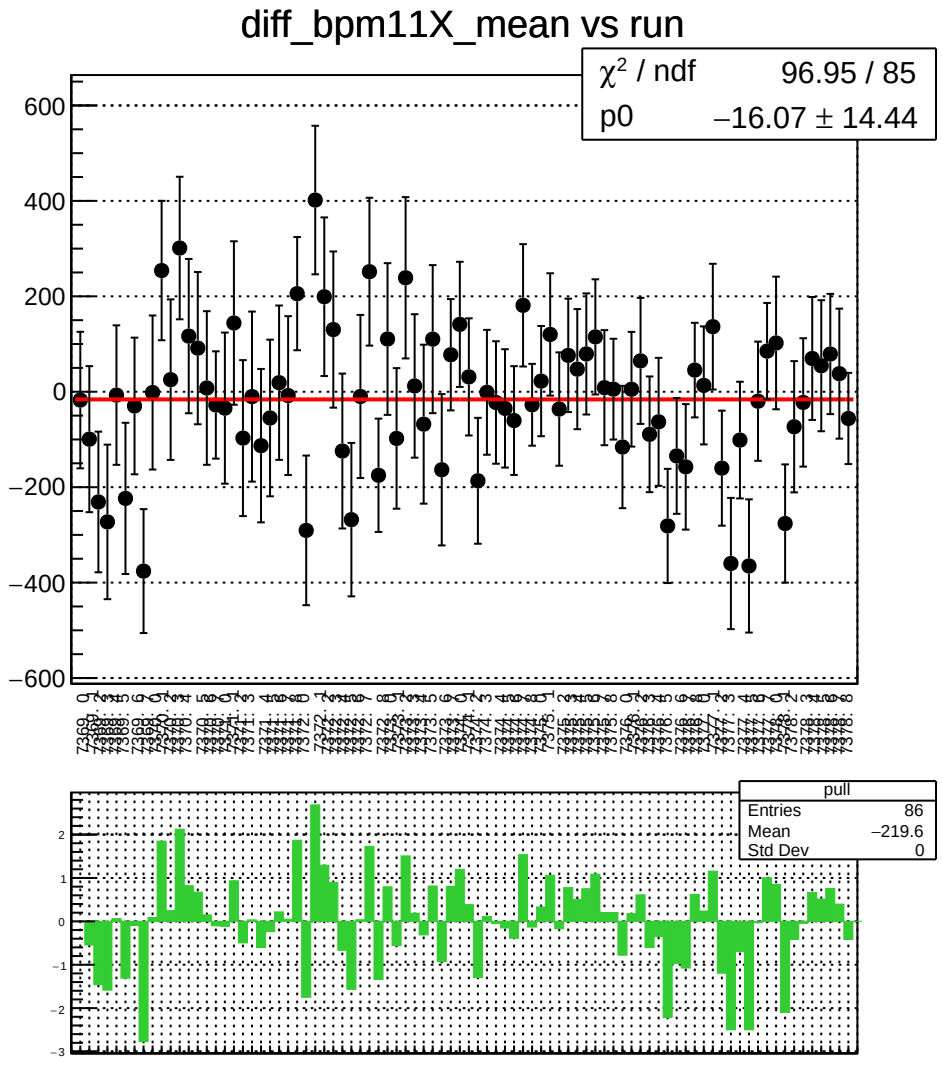

pull1D
Entries 86
Mean −0.01553
Std Dev 1.017

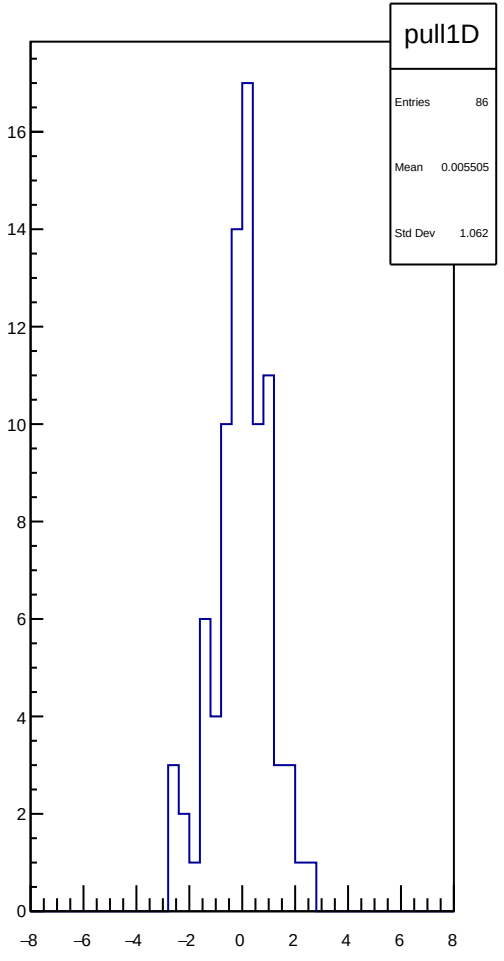

diff_bpm1X_rms vs run
χ² / ndf 2835 / 85
p0 7596 ± 5.859
8600
8400
8200
8000
7800
7600
7400
7200
7000

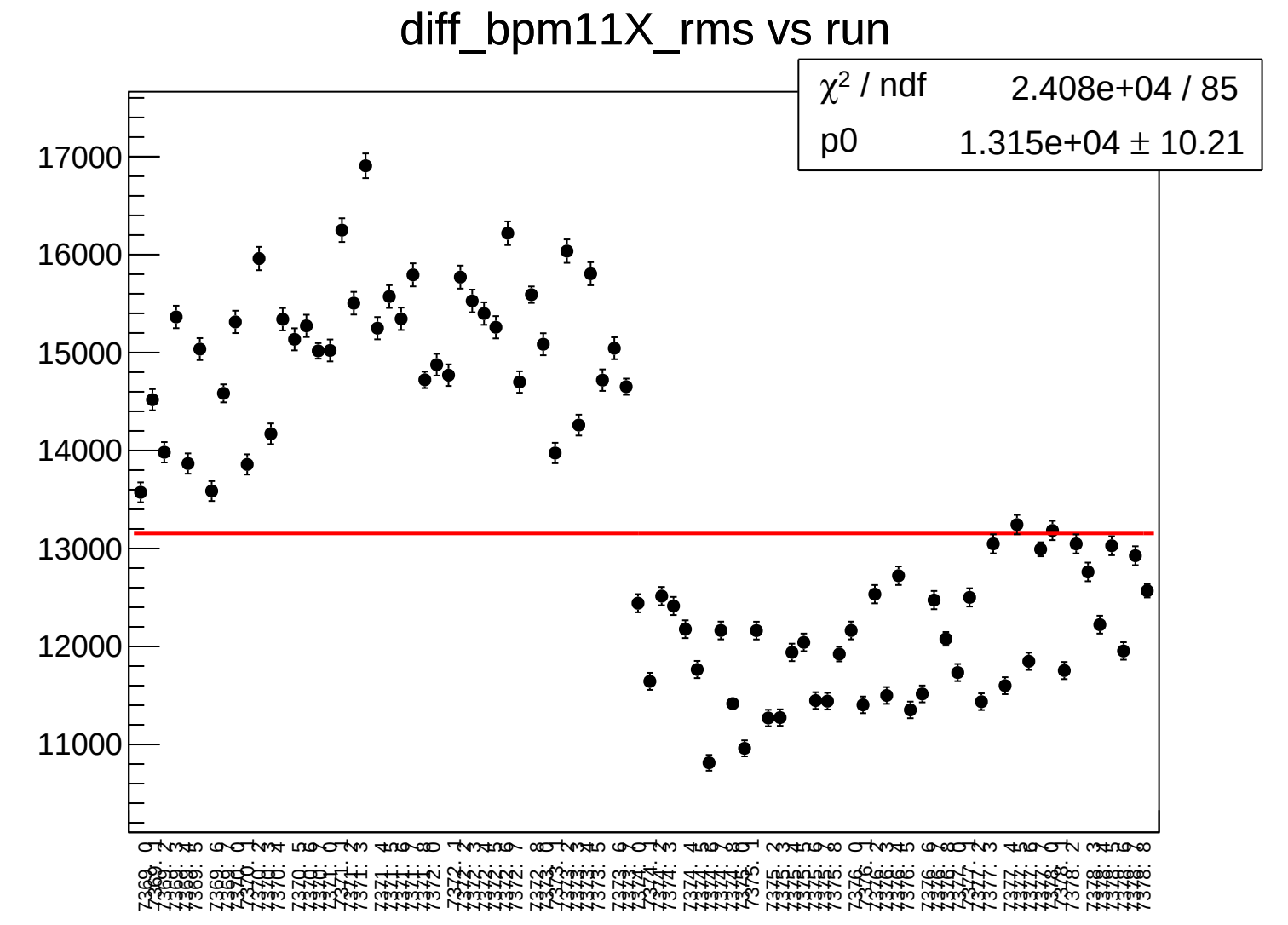

diff_bpm1Y_mean vs run
χ² / ndf 79.98 / 85
p0 0.8865 ± 6.073
300
200
100
0
−100
−200
pull
Entries 86
Mean −360.7
Std Dev 0
3
2
1
0
−1
−2

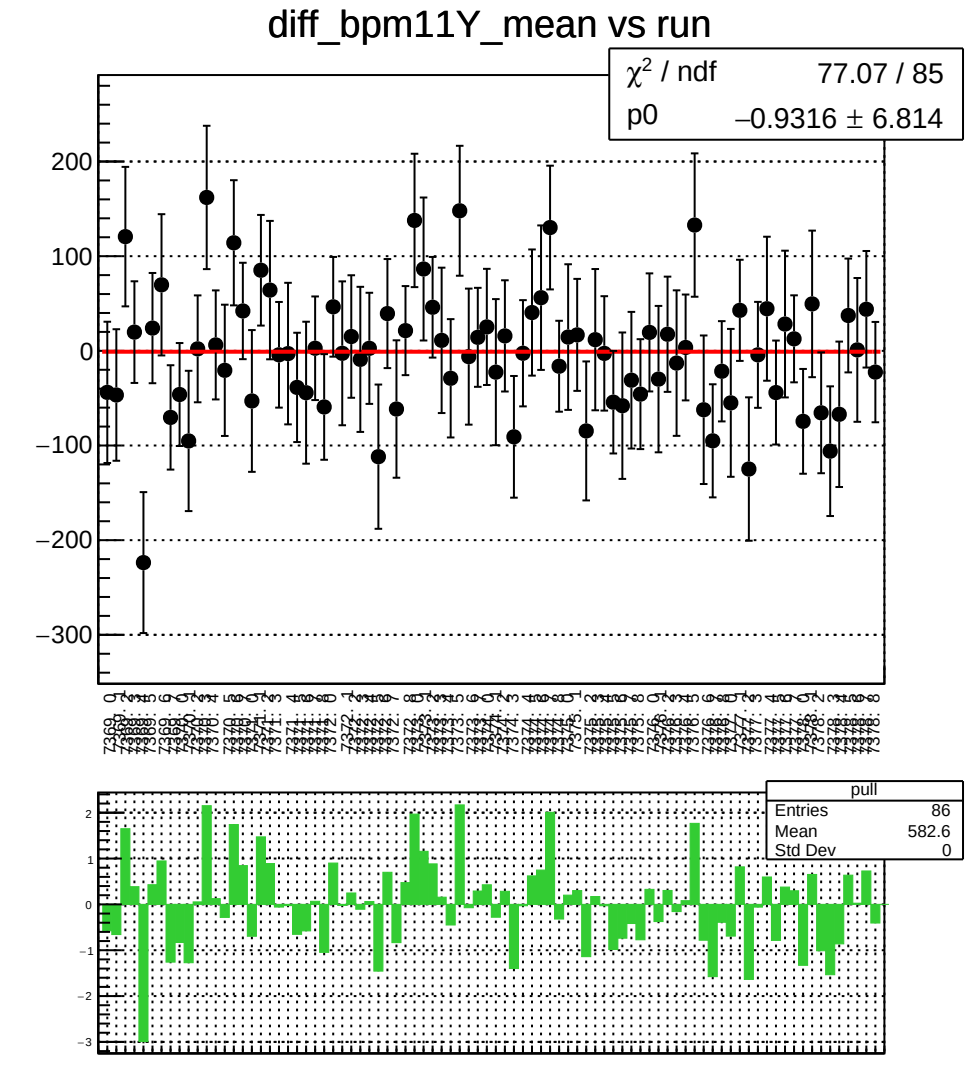

pull1D
Entries 86
Mean −0.003064
Std Dev 0.9644
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

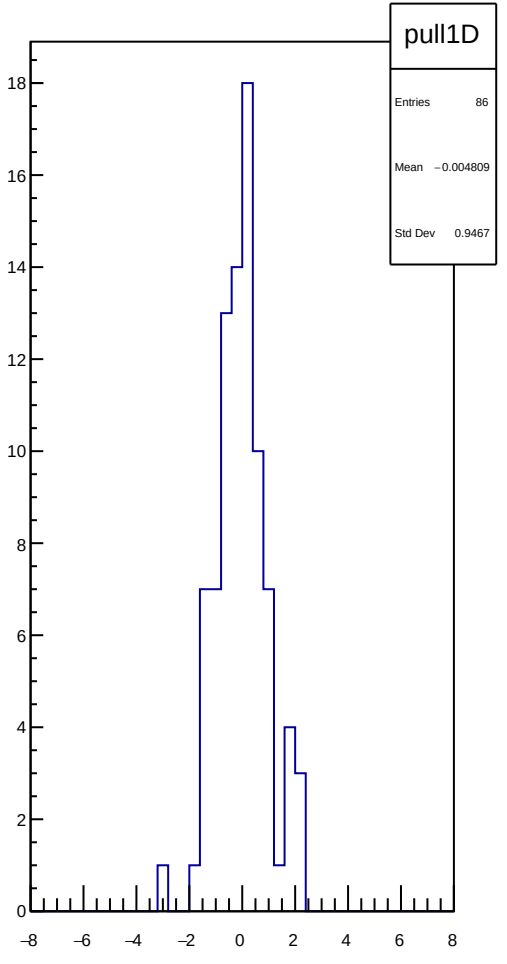

diff_bpm1Y_rms vs run
χ² / ndf 2.042e+04 / 85
p0 5539 ± 4.295
6500
6000
5500
5000
4500

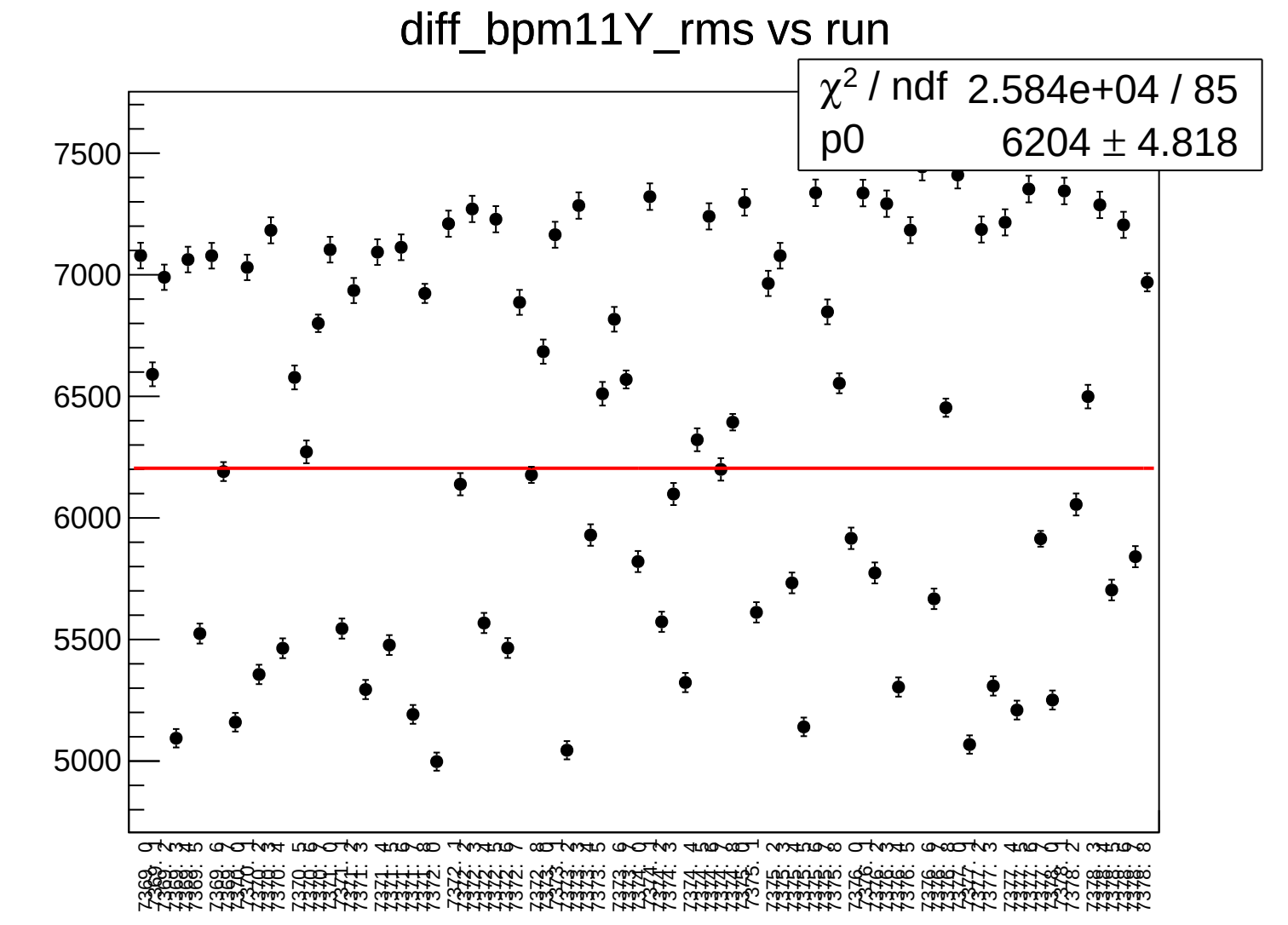

diff_bpm11X_mean vs run
χ² / ndf 96.95 / 85
p0 −16.07 ± 14.44
pull
Entries 86
Mean −219.6
Std Dev 0

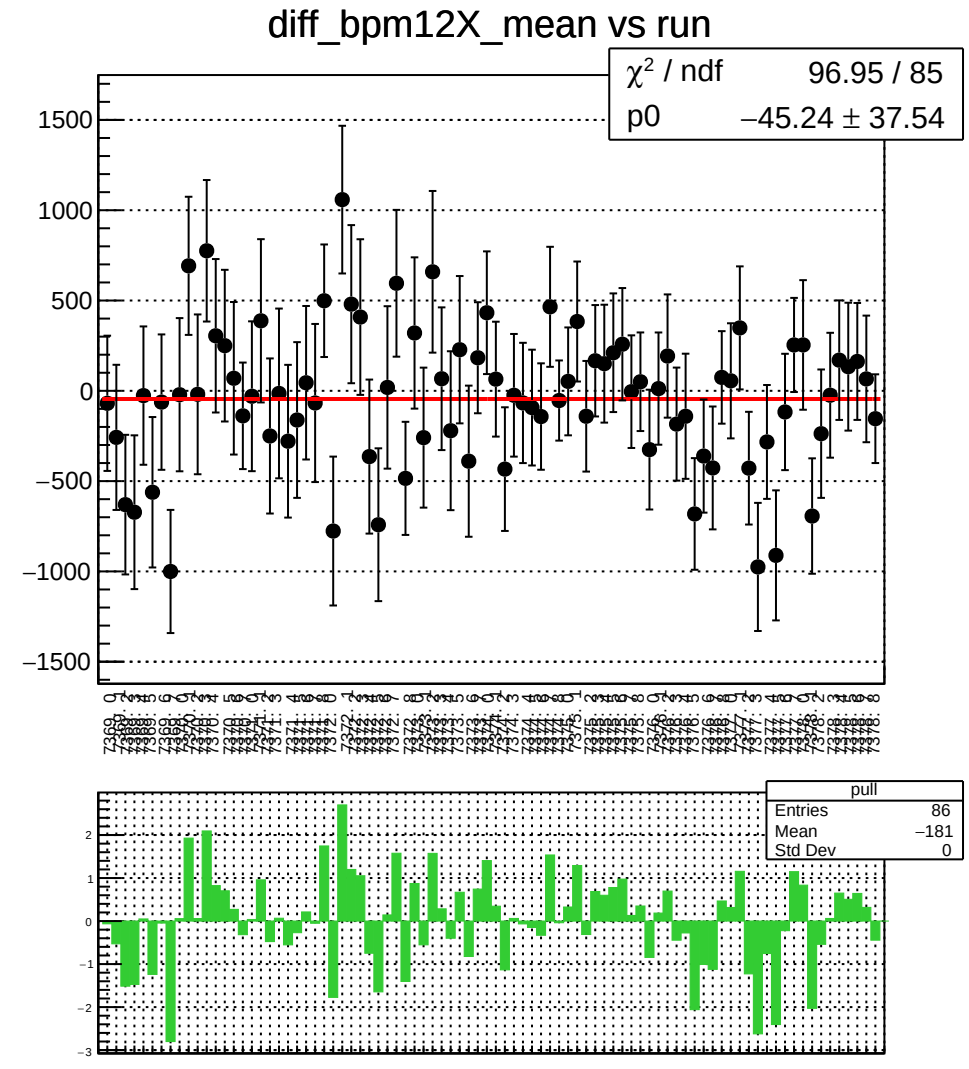

pull1D
Entries 86
Mean 0.005505
Std Dev 1.062

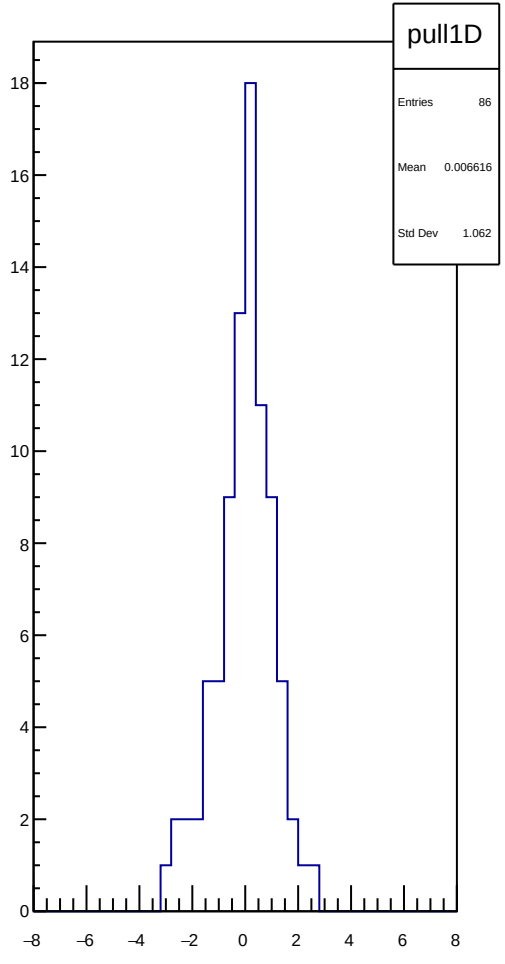

diff_bpm11X_rms vs run
χ² / ndf 2.408e+04 / 85
p0 1.315e+04 ± 10.21
17000
16000
15000
14000
13000
12000
11000

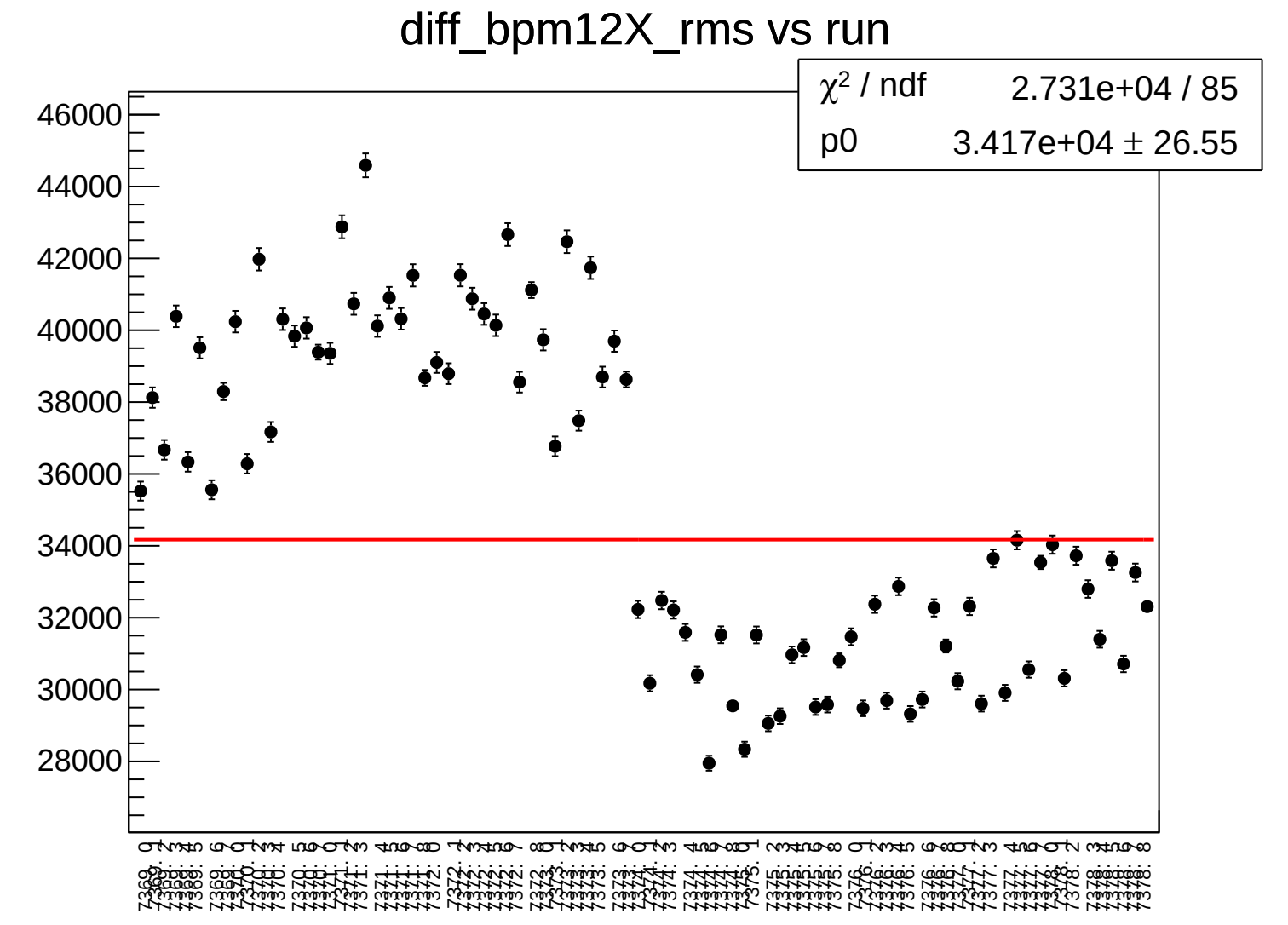

diff_bpm11Y_mean vs run
χ² / ndf 77.07 / 85
p0 −0.9316 ± 6.814
200
100
0
−100
−200
−300
pull
Entries 86
Mean 582.6
Std Dev 0
2
1
0
−1
−2
−3

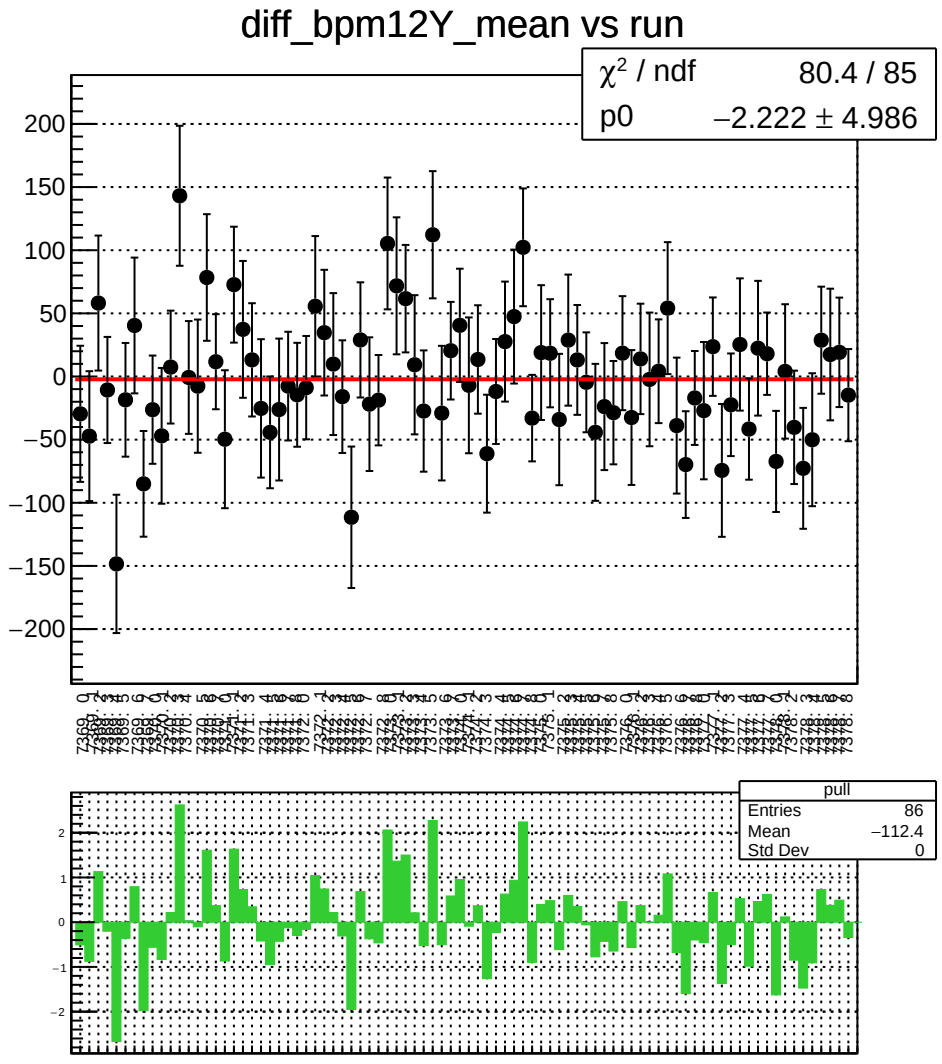

pull1D
Entries 86
Mean −0.004809
Std Dev 0.9467
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

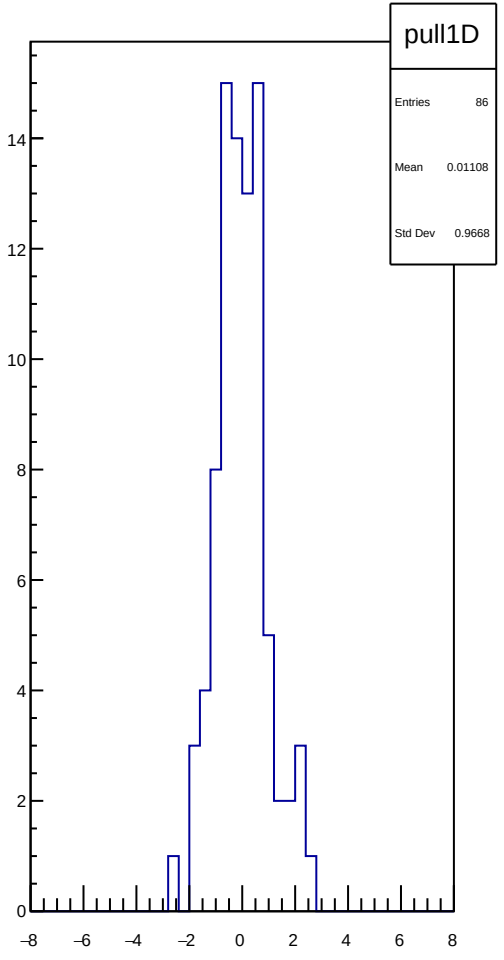

diff_bpm11Y_rms vs run
χ² / ndf 2.584e+04 / 85
p0 6204 ± 4.818
7500
7000
6500
6000
5500
5000

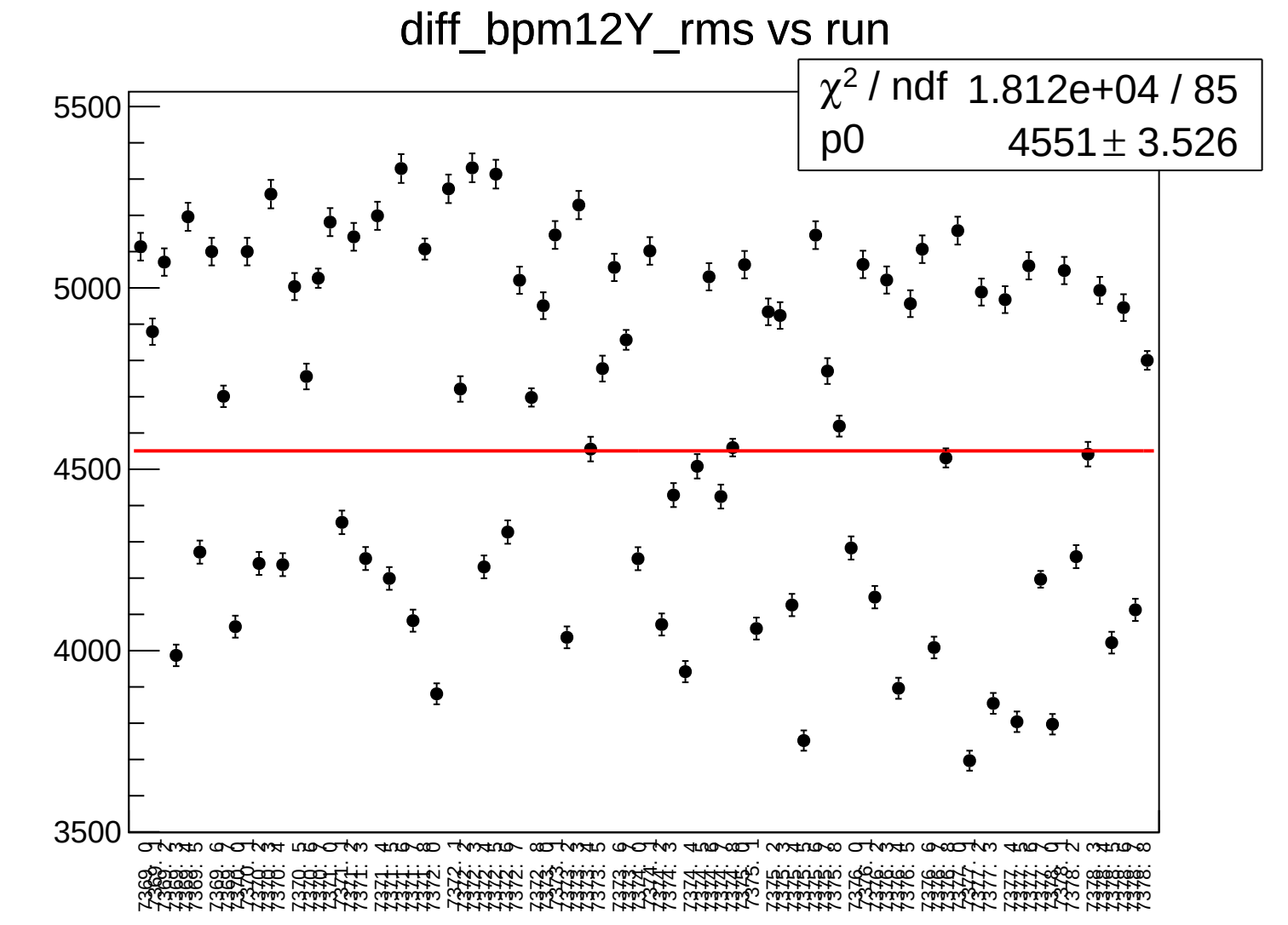

diff_bpm12X_mean vs run
χ^2 / ndf 96.95 / 85
p0 −45.24 ± 37.54
pull
Entries 86
Mean −181
Std Dev 0

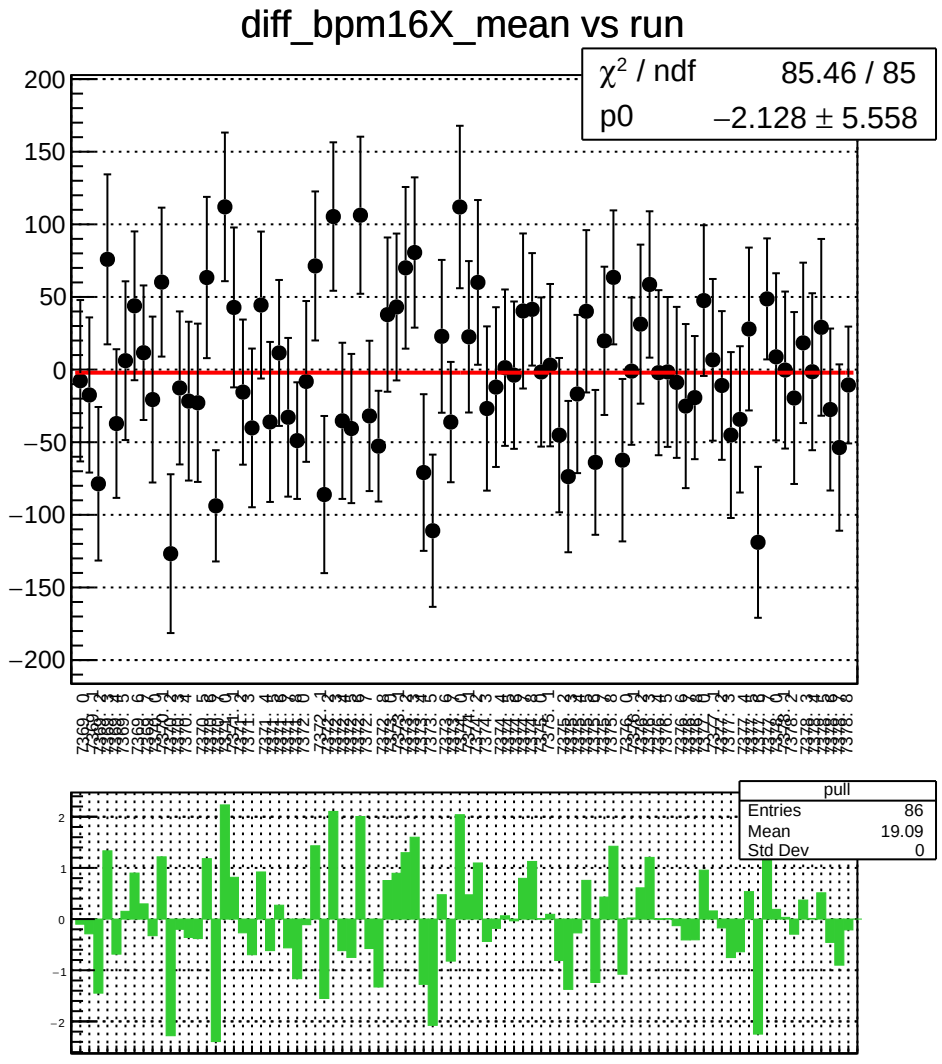

pull1D
Entries 86
Mean 0.006616
Std Dev 1.062

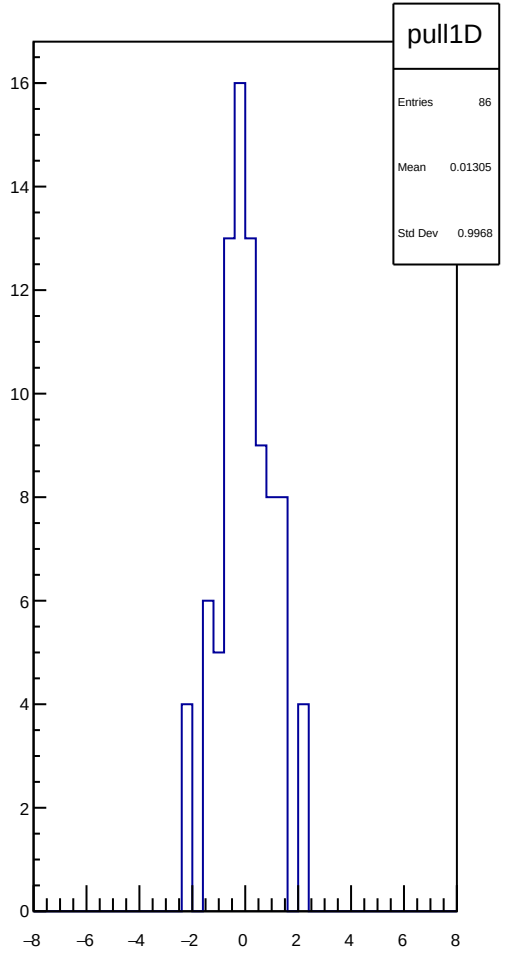

diff_bpm12X_rms vs run
χ² / ndf 2.731e+04 / 85
p0 3.417e+04 ± 26.55
46000
44000
42000
40000
38000
36000
34000
32000
30000
28000

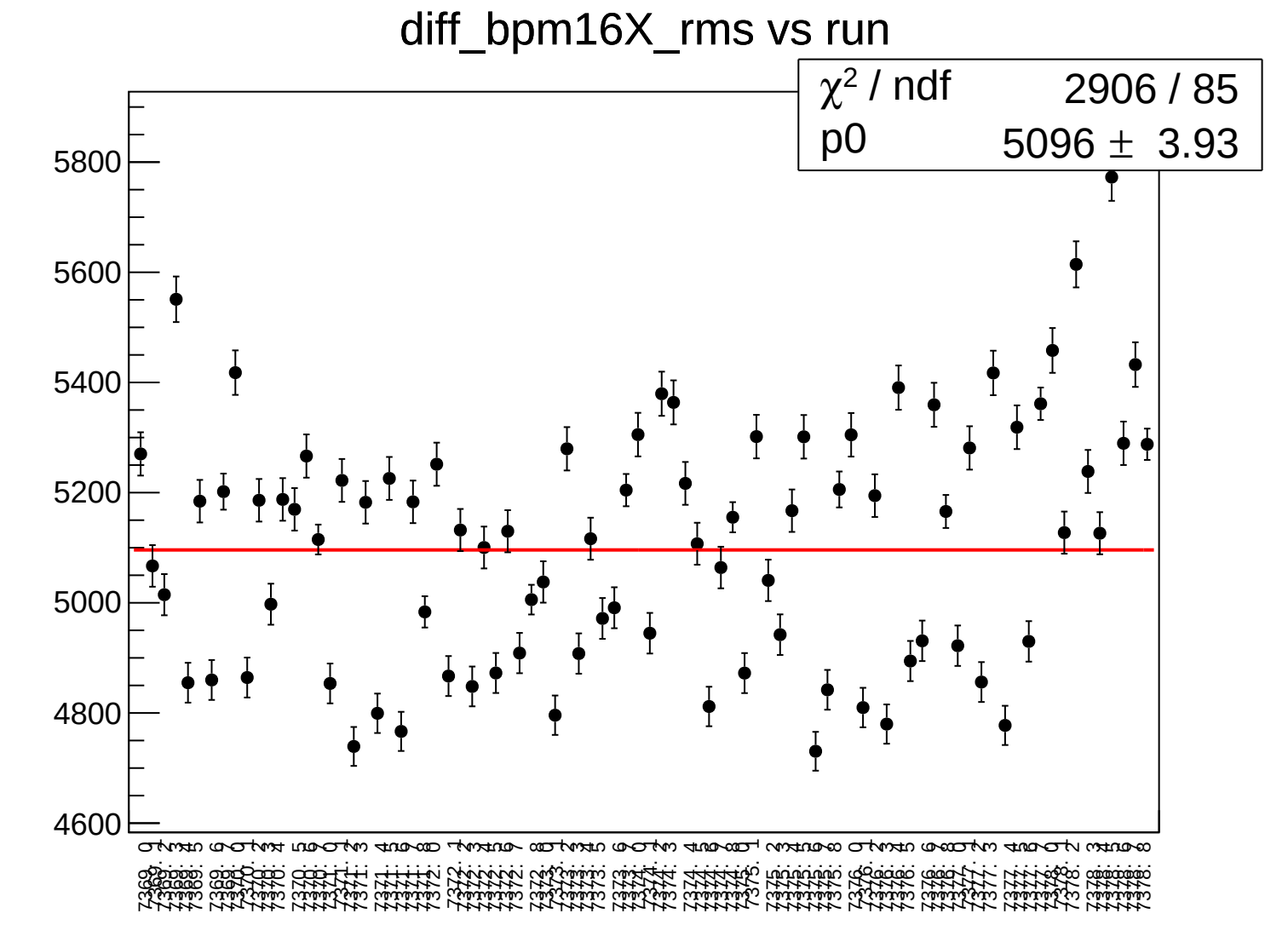

diff_bpm12Y_mean vs run
χ² / ndf 80.4 / 85
p0 −2.222 ± 4.986
pull
Entries 86
Mean −112.4
Std Dev 0

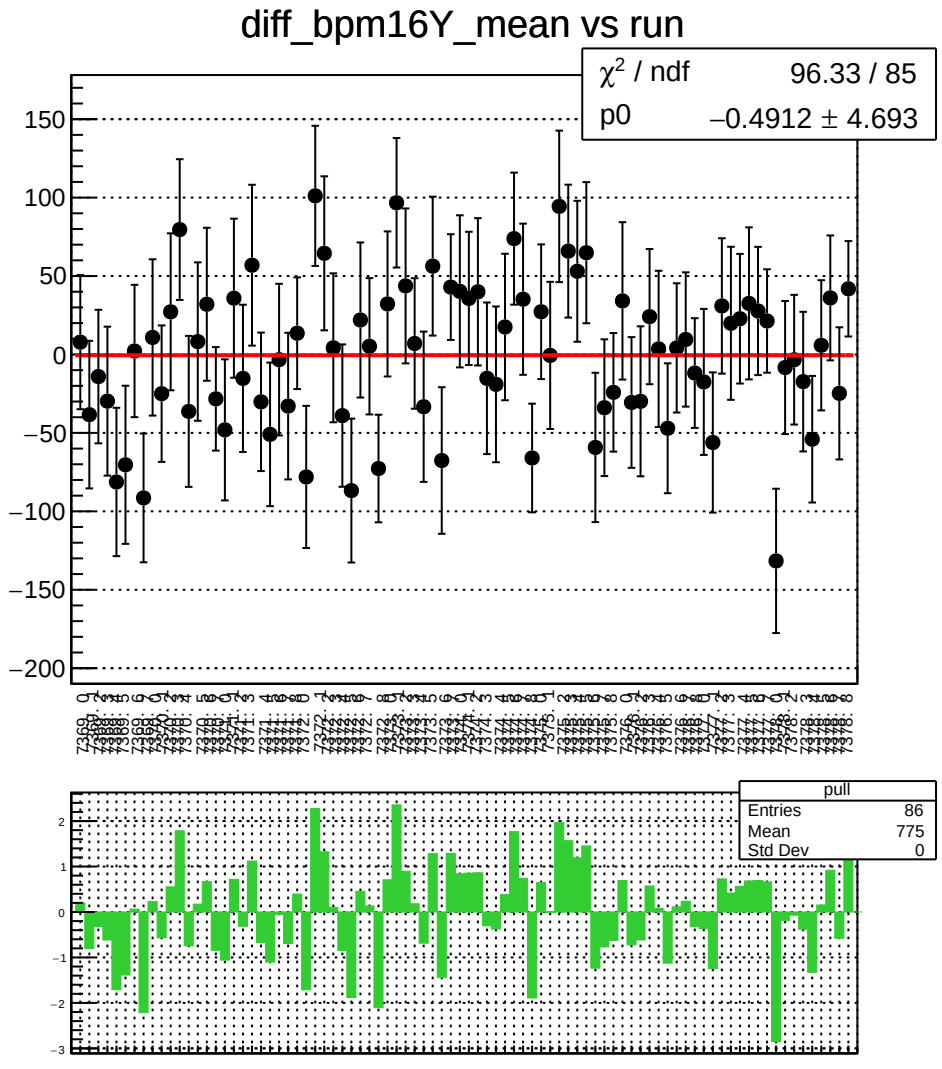

pull1D
Entries 86
Mean 0.01108
Std Dev 0.9668

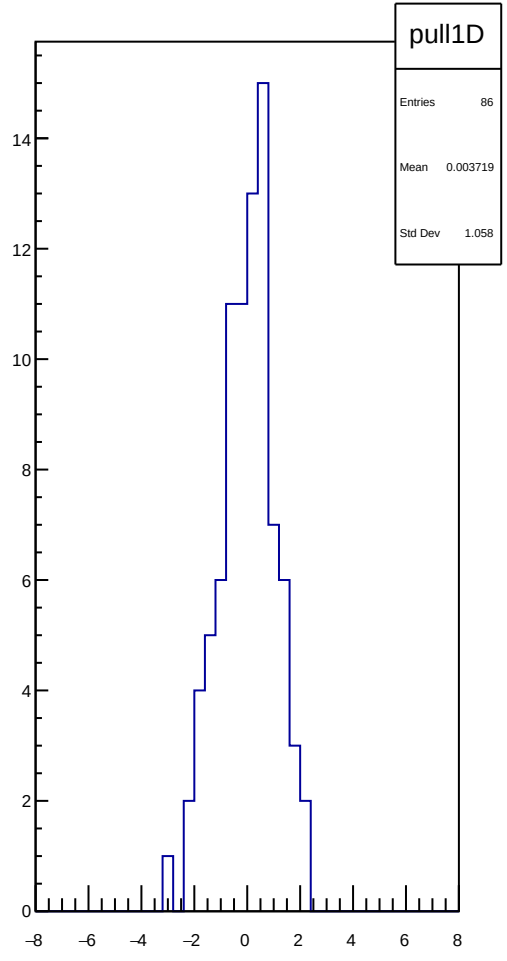

diff_bpm12Y_rms vs run
χ² / ndf 1.812e+04 / 85
p0 4551 ± 3.526
5500
5000
4500
4000
3500

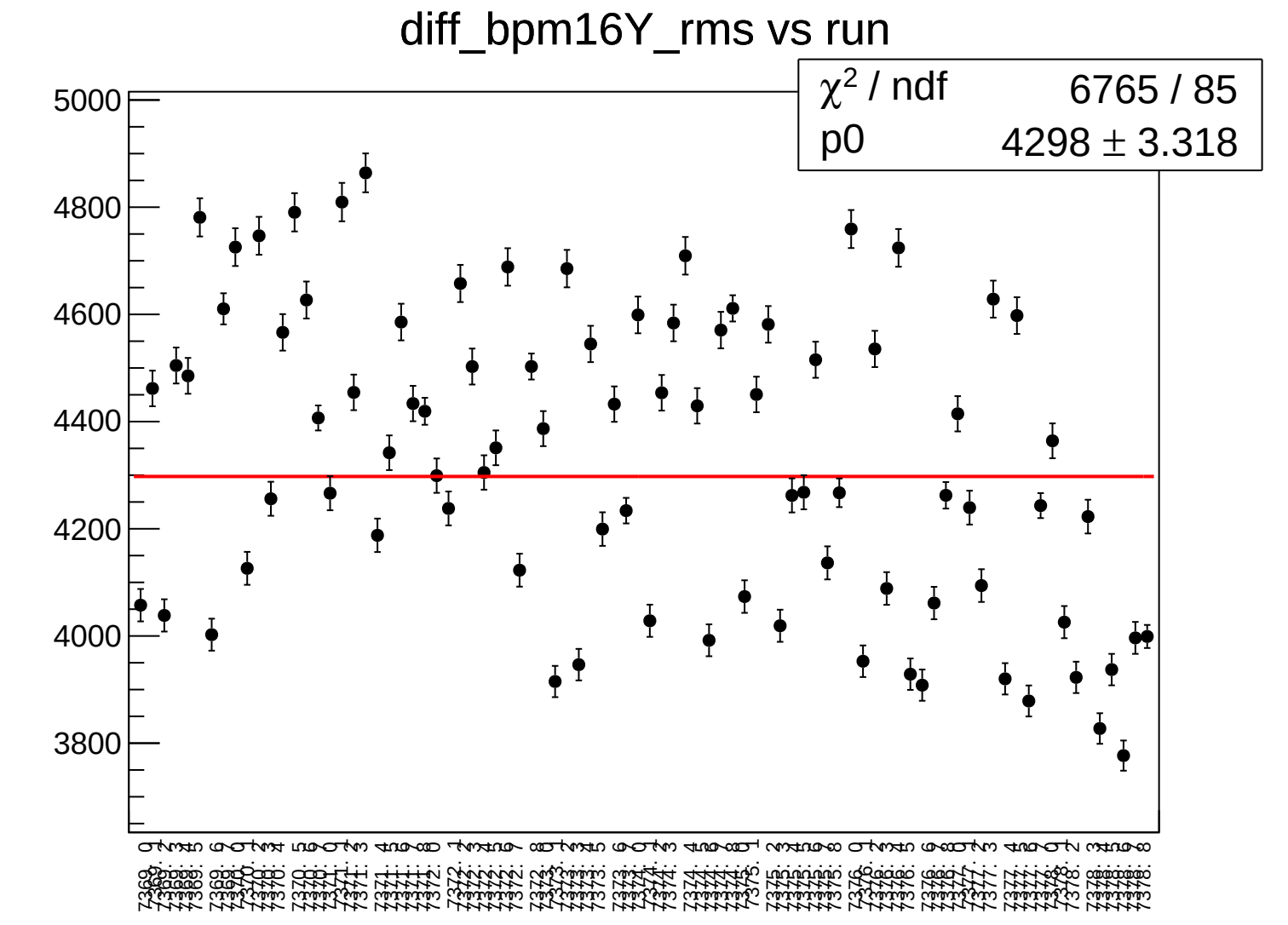

diff_bpm16X_mean vs run
χ² / ndf 85.46 / 85
p0 −2.128 ± 5.558
pull
Entries 86
Mean 19.09
Std Dev 0

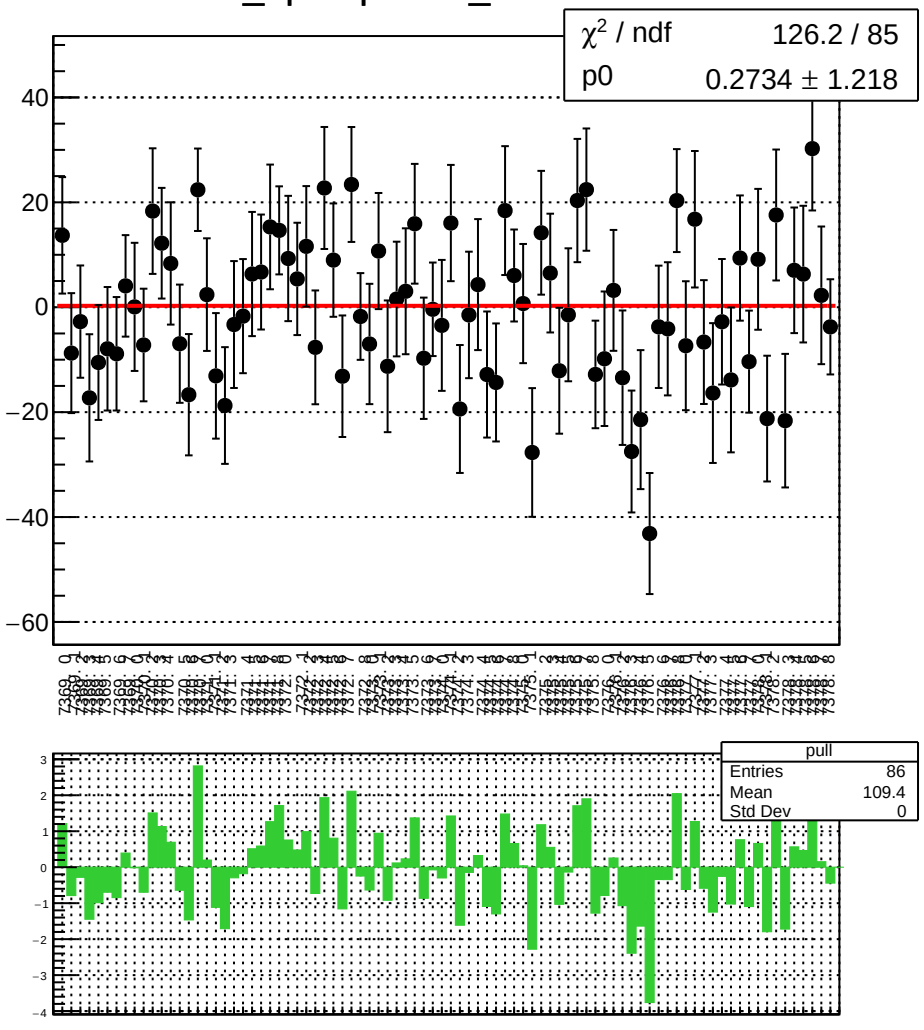

pull1D
Entries 86
Mean 0.01305
Std Dev 0.9968

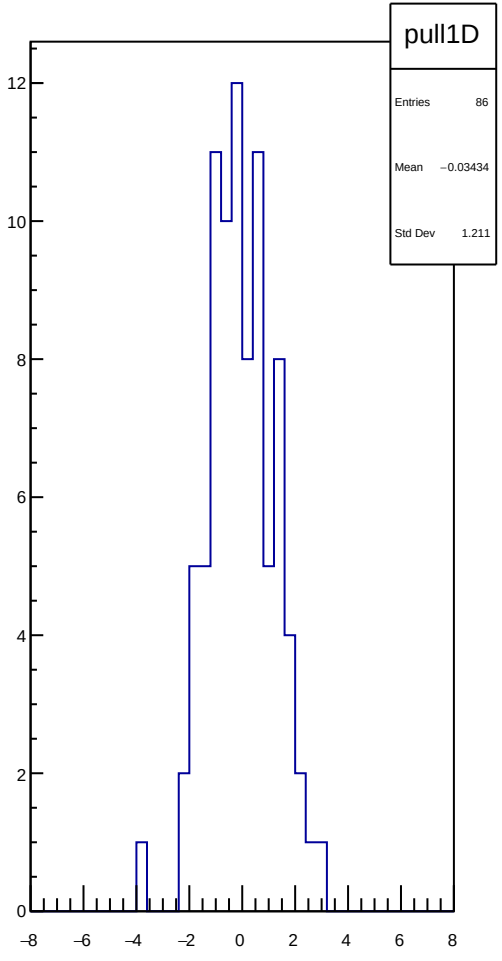

diff_bpm16X_rms vs run
χ² / ndf 2906 / 85
p0 5096 ± 3.93
5800
5600
5400
5200
5000
4800
4600

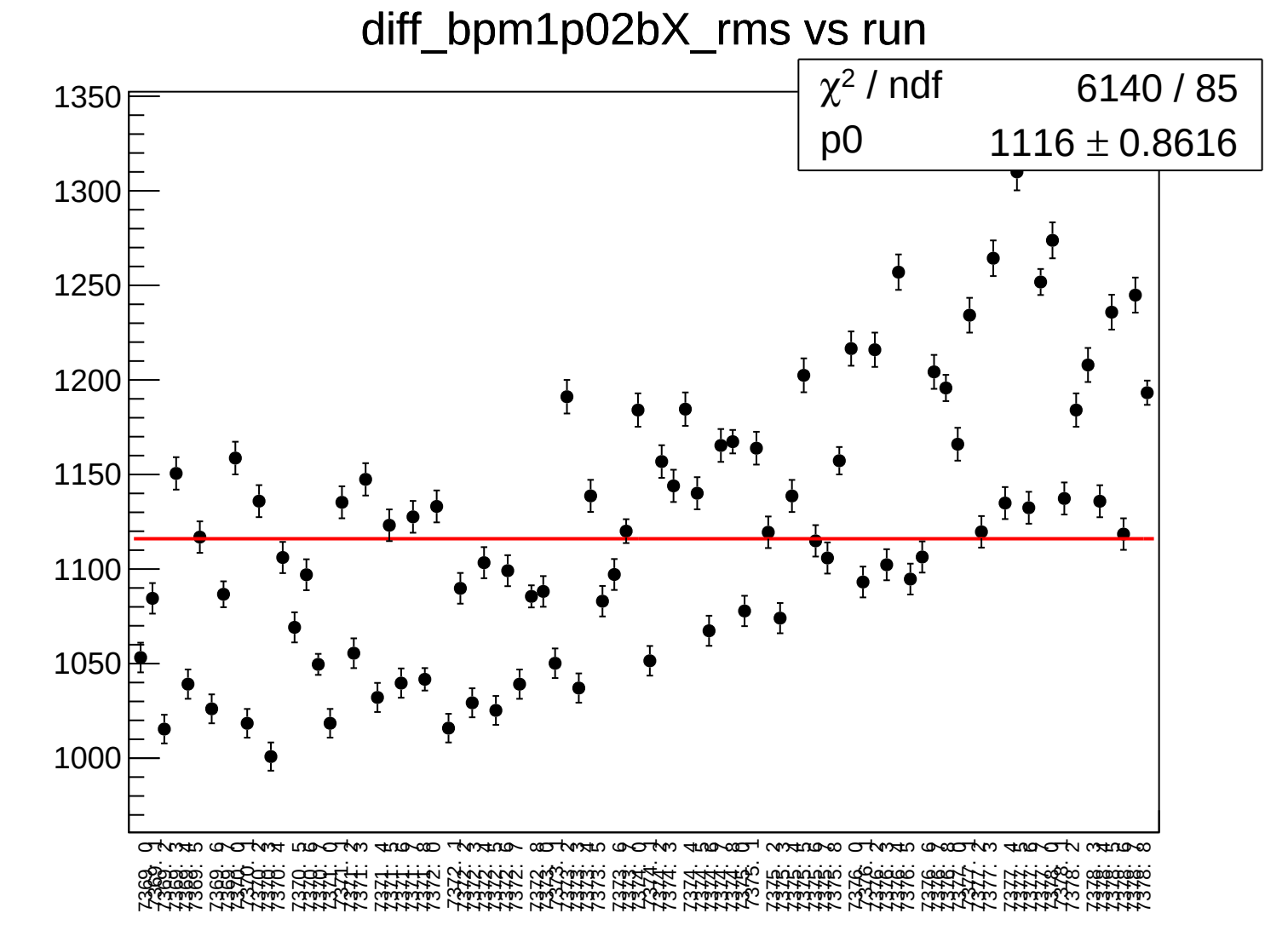

diff_bpm16Y_mean vs run
χ² / ndf 96.33 / 85
p0 −0.4912 ± 4.693
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean 775
Std Dev 0
2
1
0
−1
−2
−3

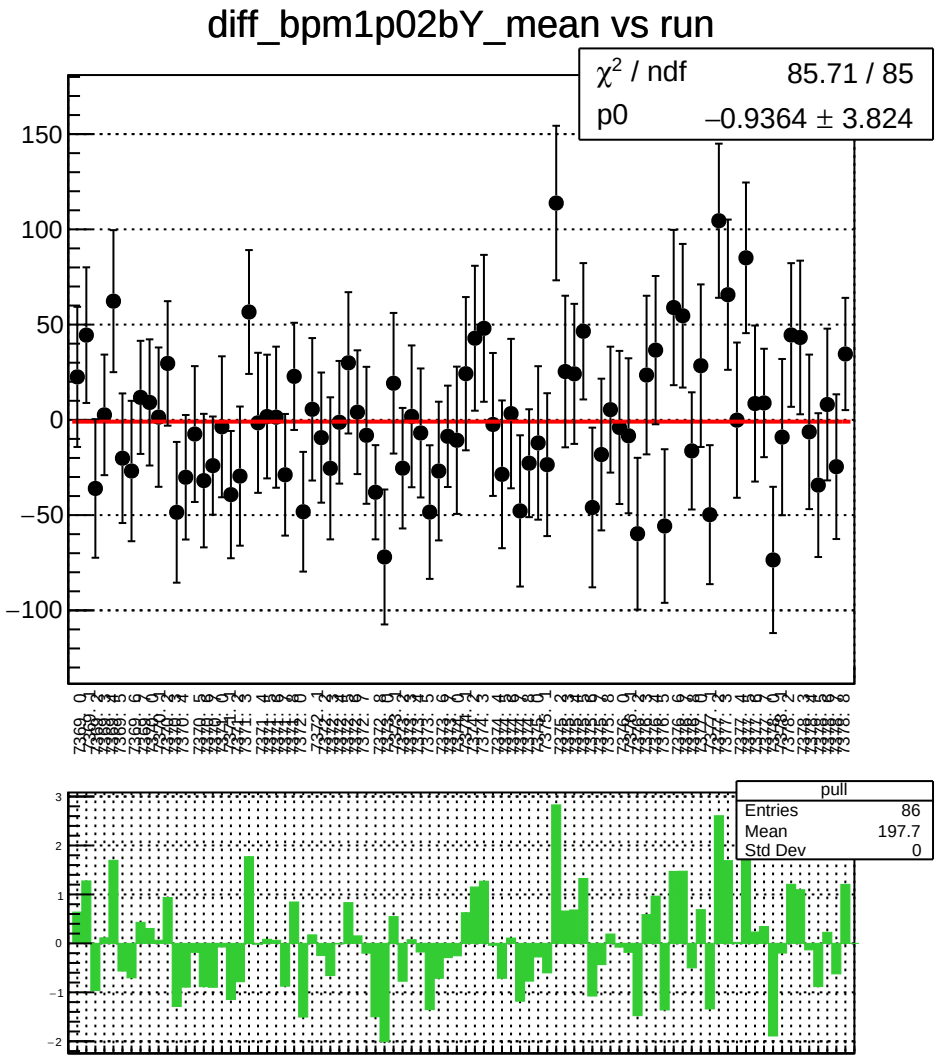

pull1D
Entries 86
Mean 0.003719
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

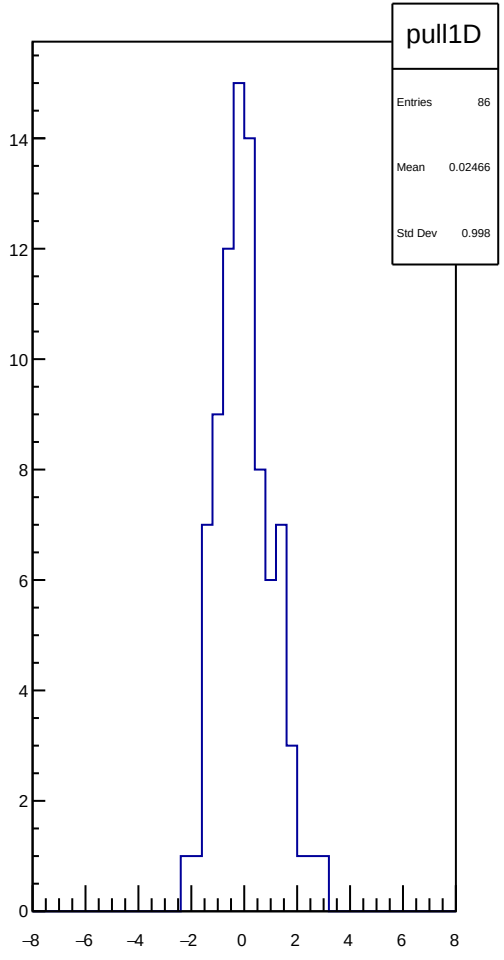

diff_bpm16Y_rms vs run
χ^2 / ndf 6765 / 85
p0 4298 ± 3.318
5000
4800
4600
4400
4200
4000
3800

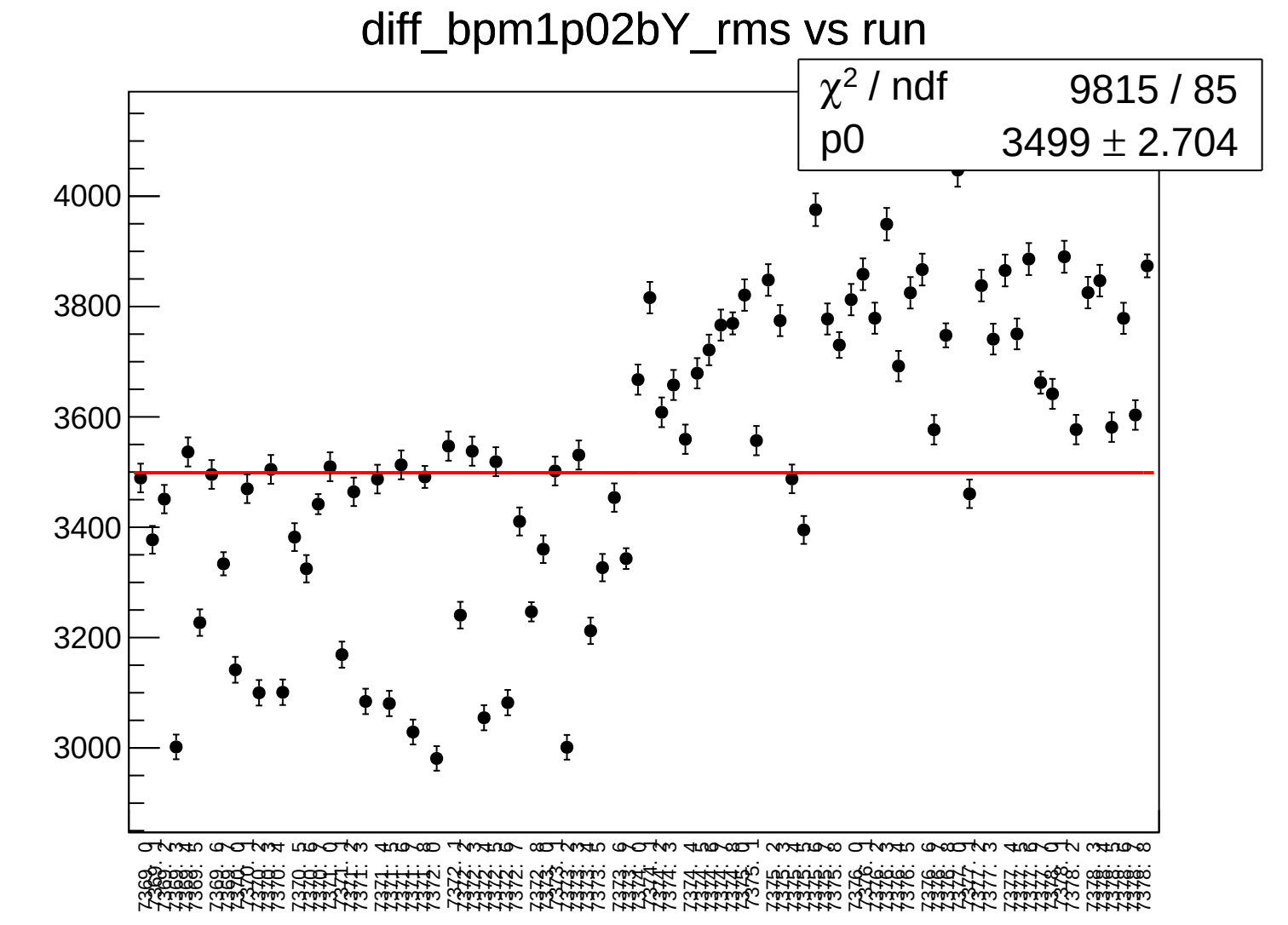

diff_bpm1p02bX_mean vs run
χ² / ndf 126.2 / 85
p0 0.2734 ± 1.218
pull
Entries 86
Mean 109.4
Std Dev 0

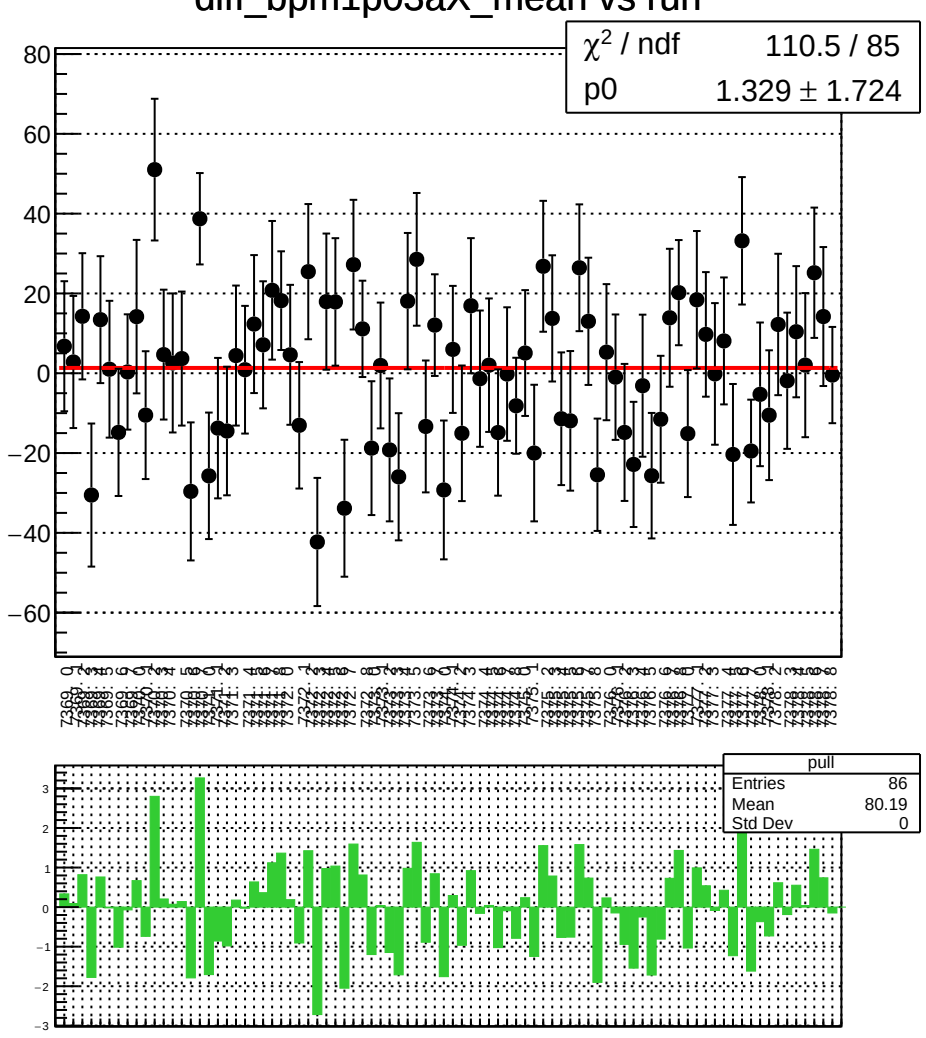

pull1D
Entries 86
Mean −0.03434
Std Dev 1.211

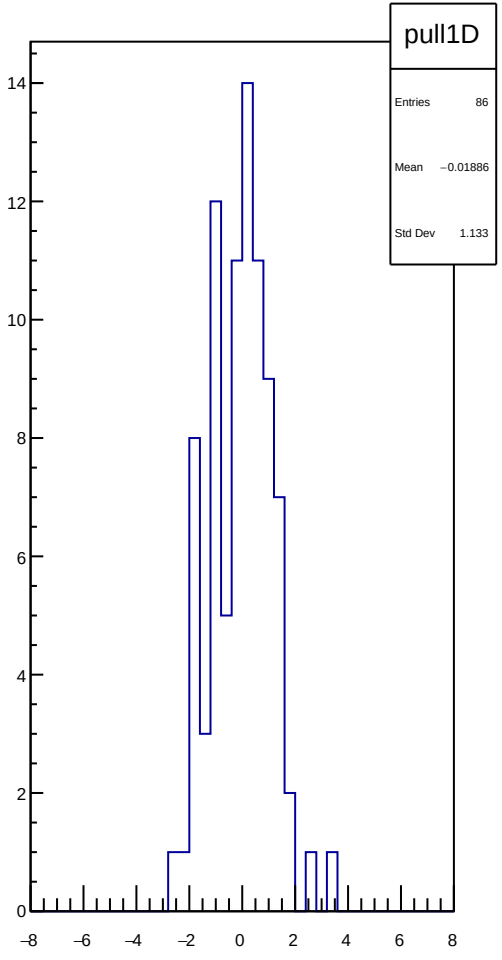

diff_bpm1p02bX_rms vs run
χ² / ndf 6140 / 85
p0 1116 ± 0.8616
1350
1300
1250
1200
1150
1100
1050
1000

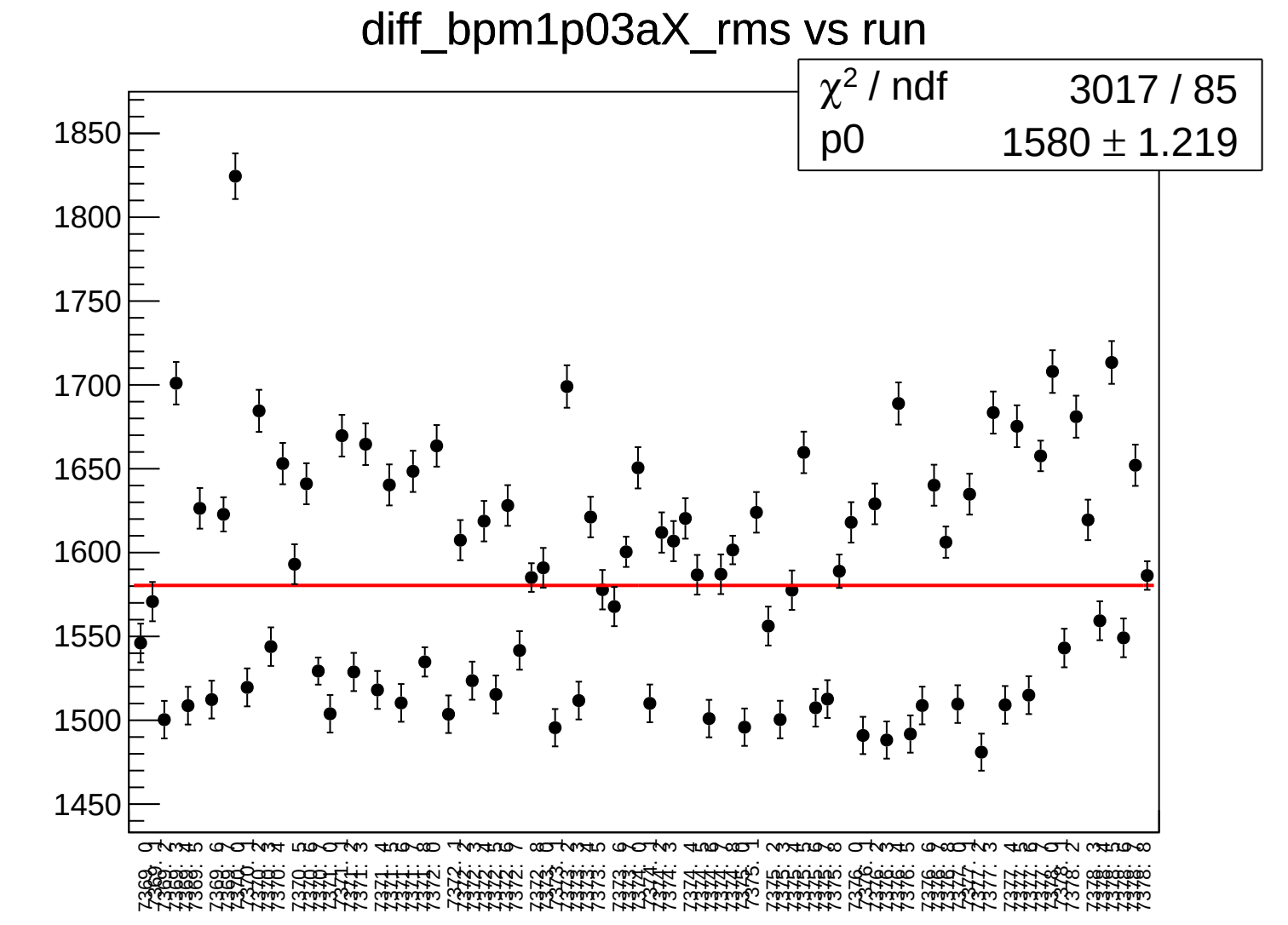

diff_bpm1p02bY_mean vs run
χ² / ndf 85.71 / 85
p0 −0.9364 ± 3.824
150
100
50
0
−50
−100
pull
Entries 86
Mean 197.7
Std Dev 0
3
2
1
0
−1
−2

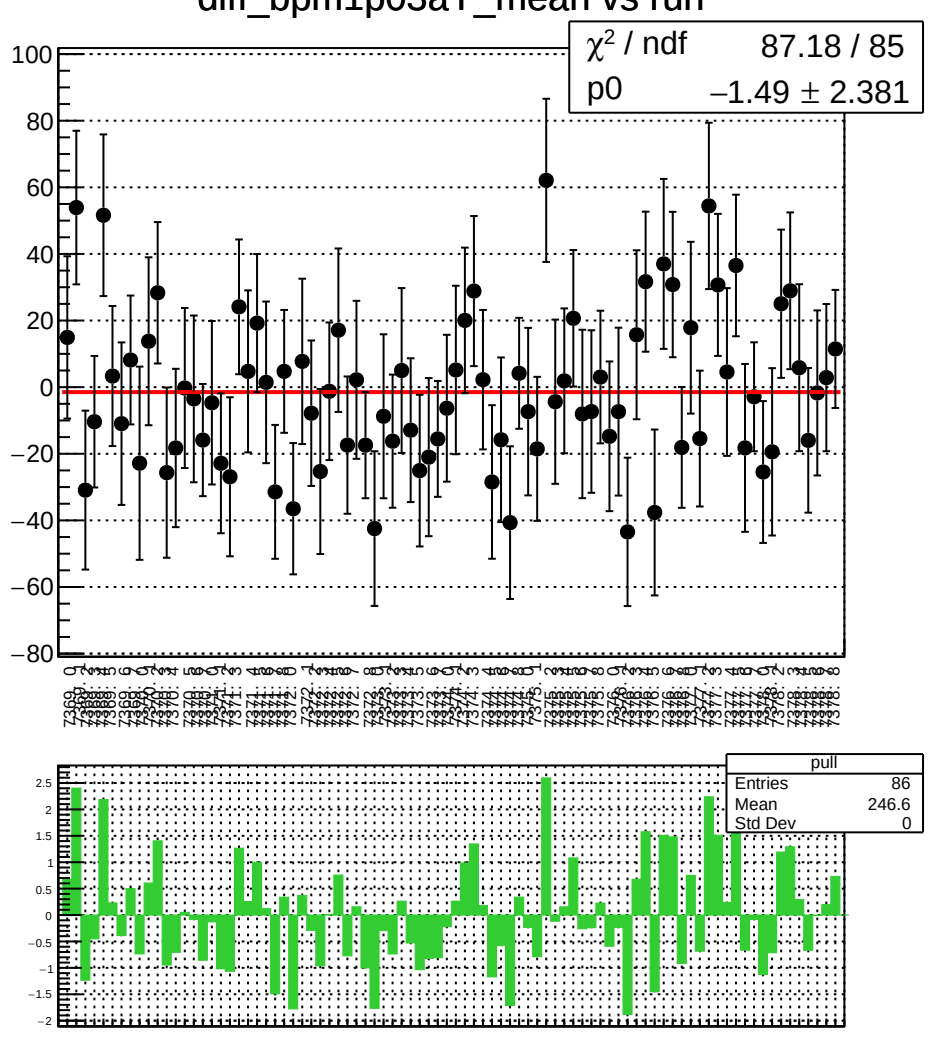

pull1D
Entries 86
Mean 0.02466
Std Dev 0.998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

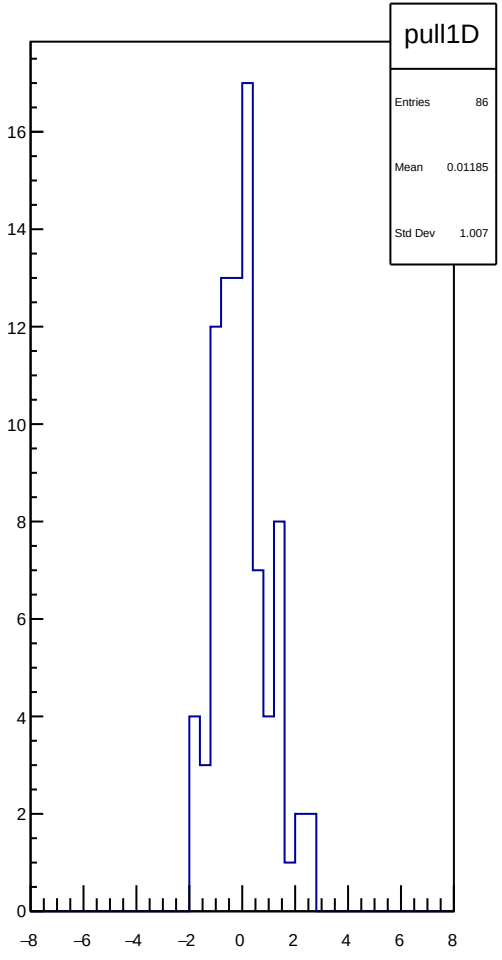

diff_bpm1p02bY_rms vs run
χ² / ndf 9815 / 85
p0 3499 ± 2.704
4000
3800
3600
3400
3200
3000

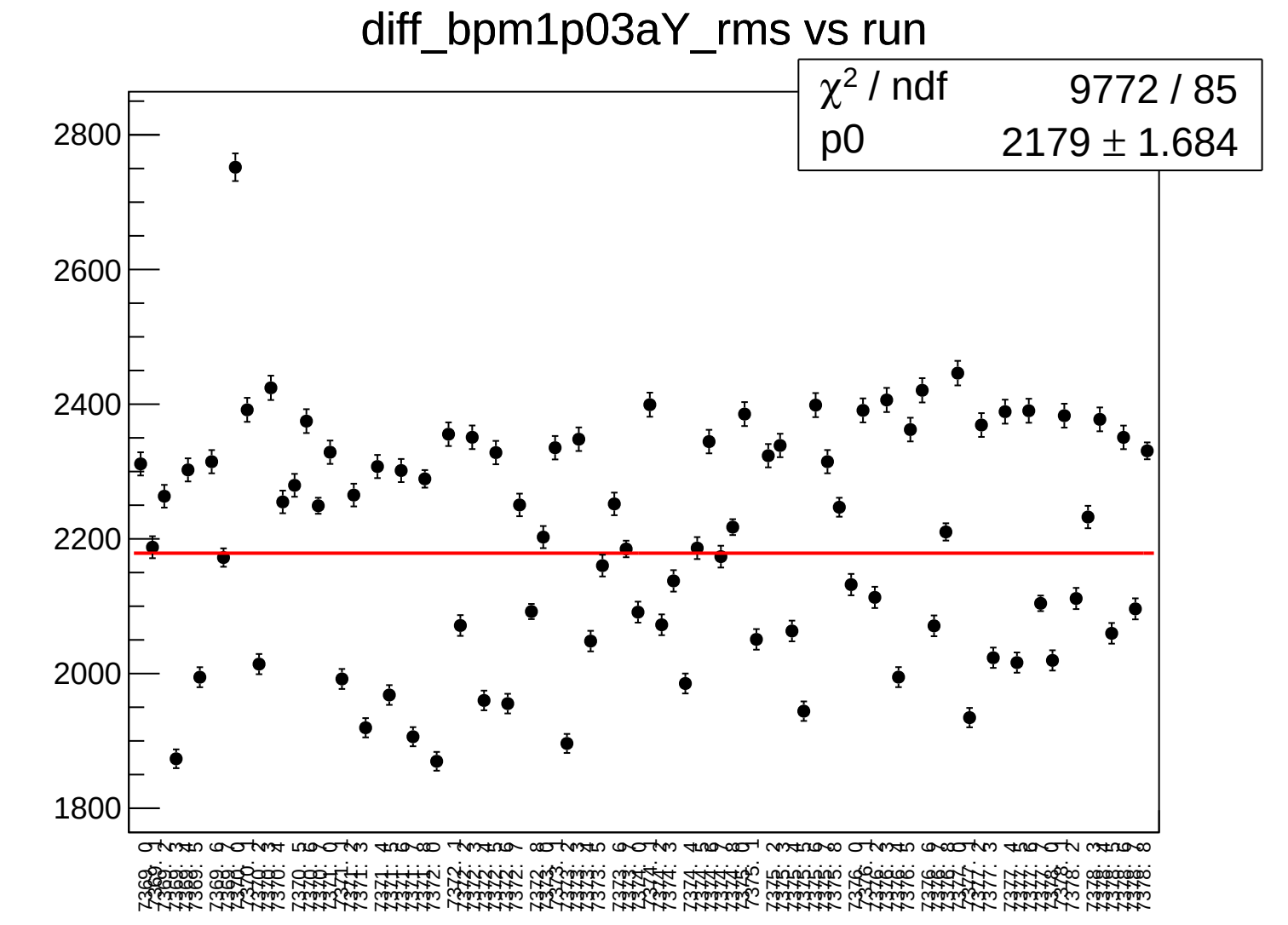

diff_bpm1p03aX_mean vs run
χ^2 / ndf 110.5 / 85
p0 1.329 ± 1.724
pull
Entries 86
Mean 80.19
Std Dev 0

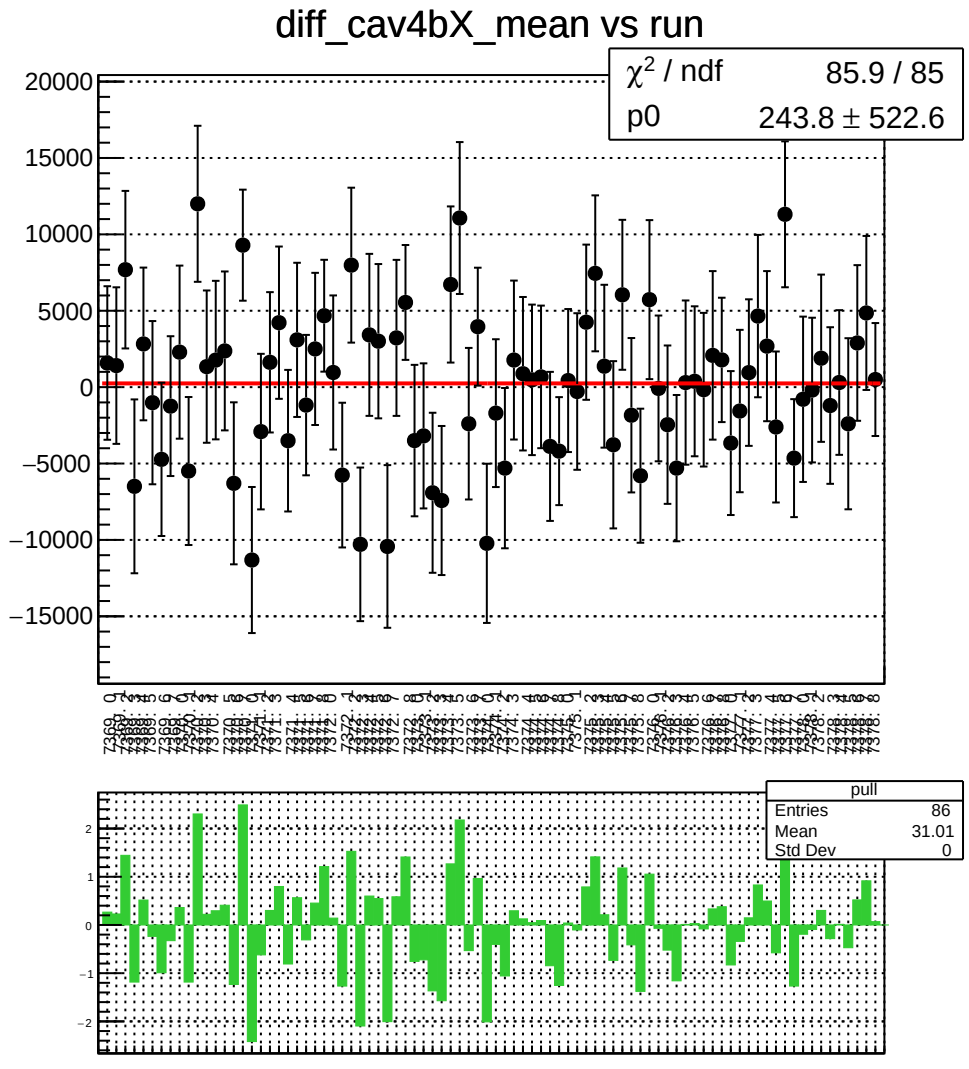

pull1D
Entries 86
Mean −0.01886
Std Dev 1.133

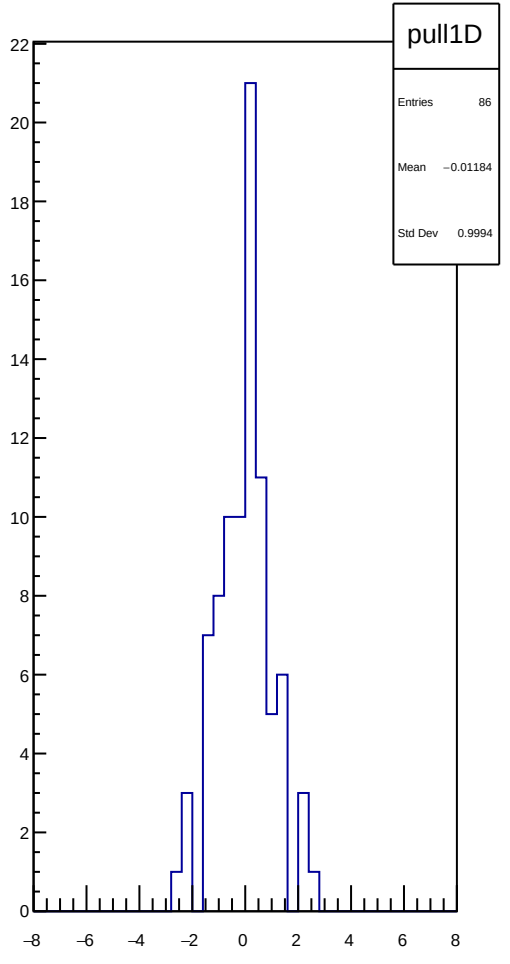

diff_bpm1p03aX_rms vs run
χ² / ndf 3017 / 85
p0 1580 ± 1.219
1850
1800
1750
1700
1650
1600
1550
1500
1450

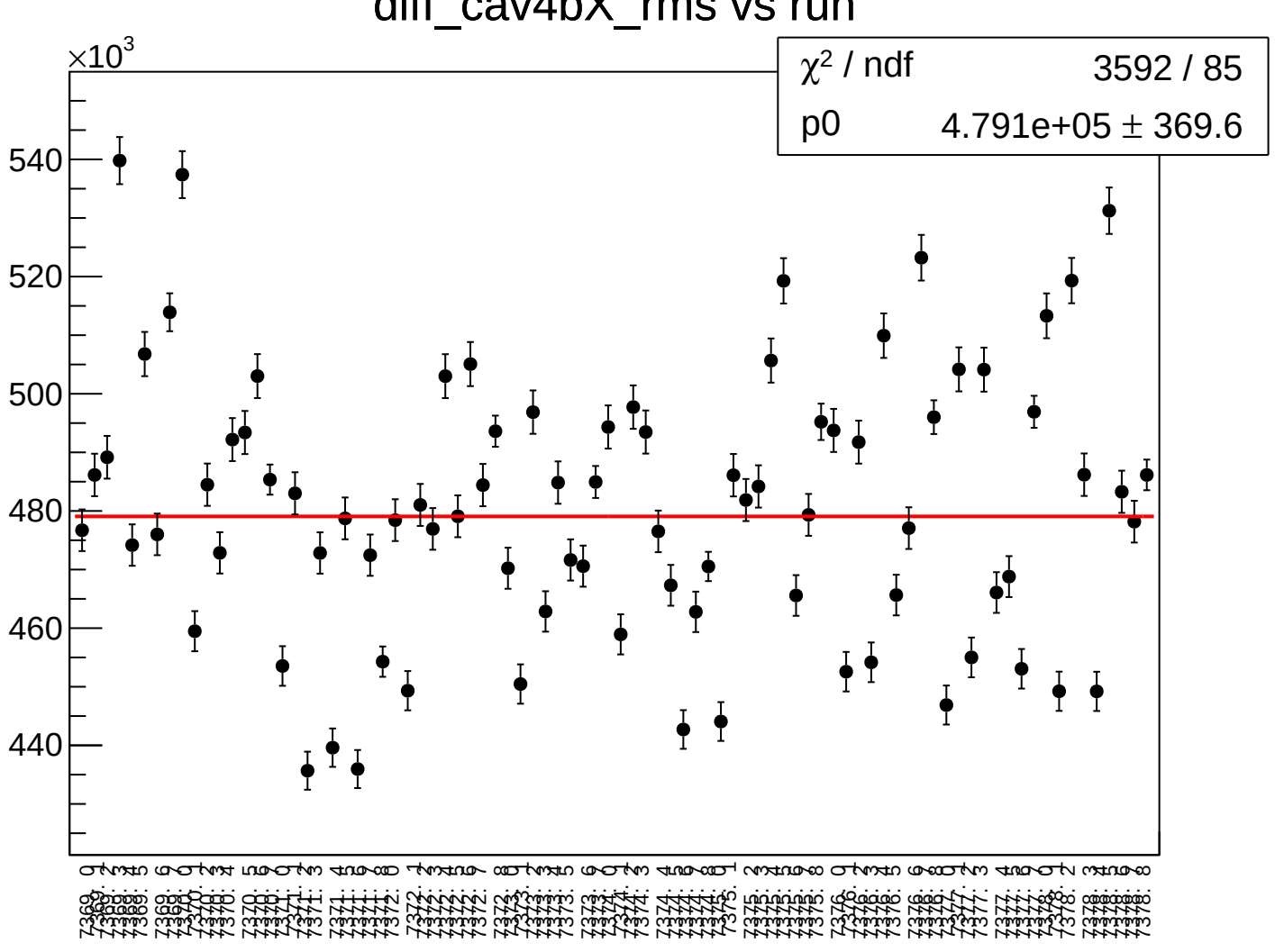

diff_bpm1p03aY_mean vs run
χ² / ndf 87.18 / 85
p0 −1.49 ± 2.381
pull
Entries 86
Mean 246.6
Std Dev 0

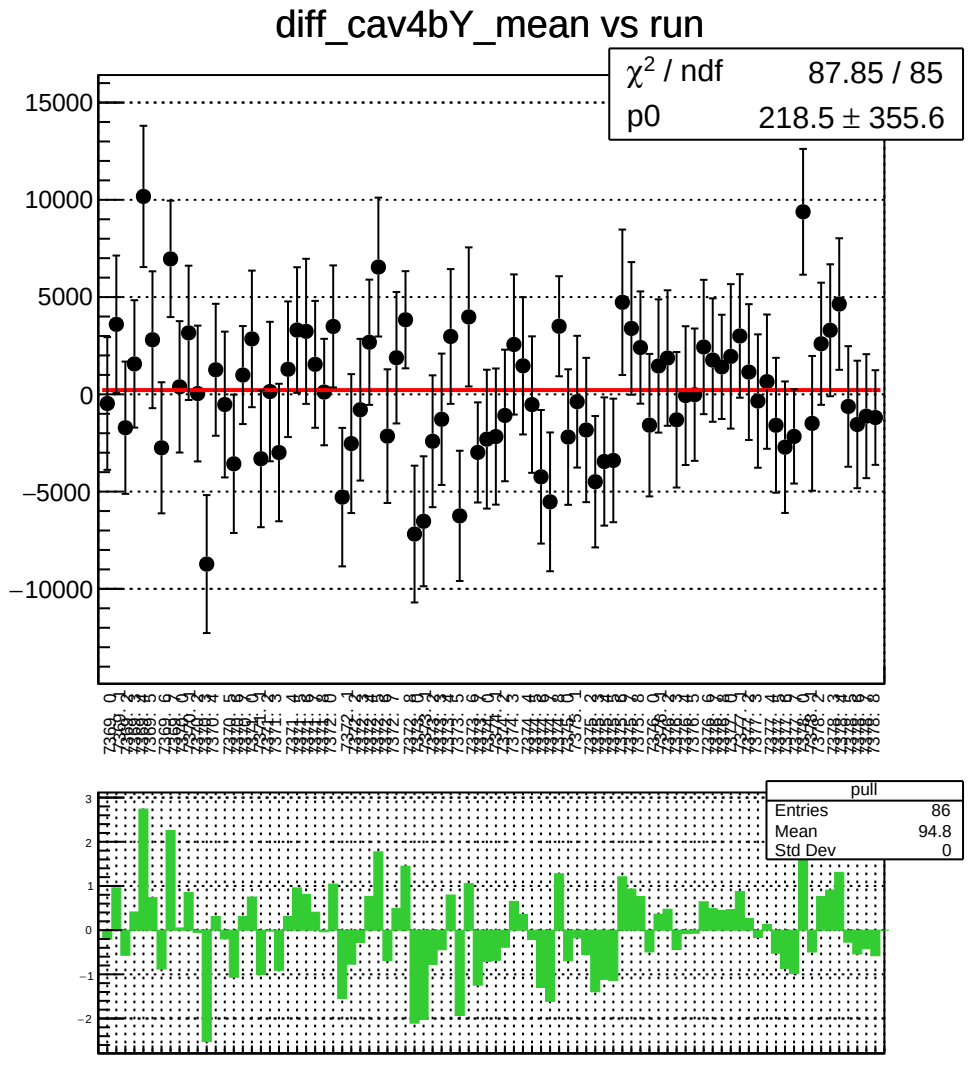

pull1D
Entries 86
Mean 0.01185
Std Dev 1.007

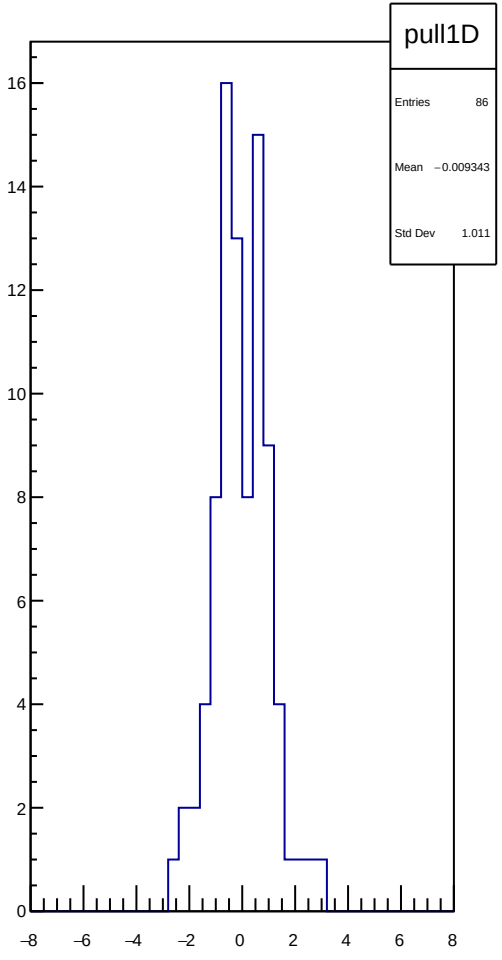

diff_bpm1p03aY_rms vs run
χ² / ndf 9772 / 85
p0 2179 ± 1.684
2800
2600
2400
2200
2000
1800

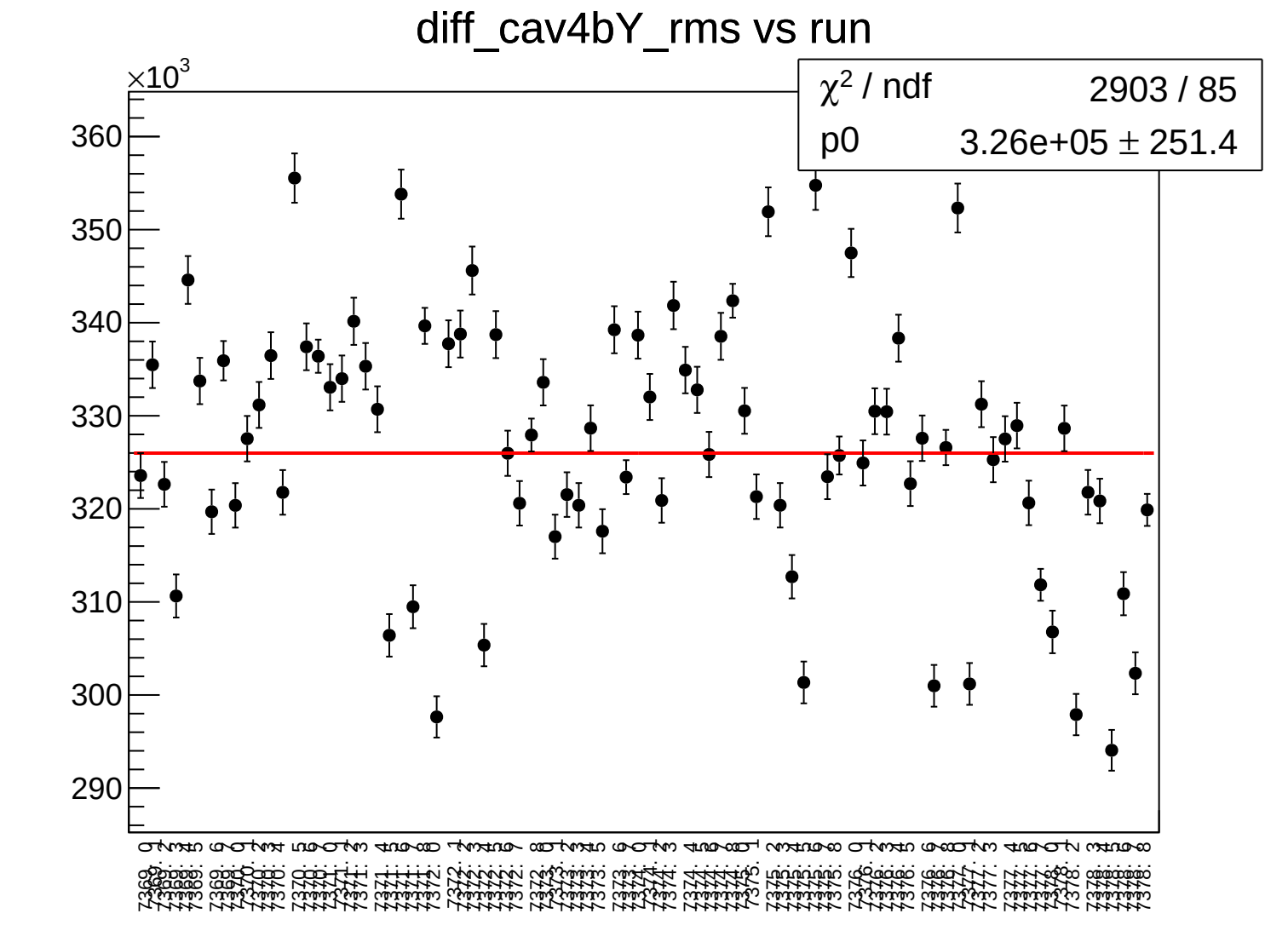

diff_cav4bX_mean vs run
χ² / ndf 85.9 / 85
p0 243.8 ± 522.6
pull
Entries 86
Mean 31.01
Std Dev 0

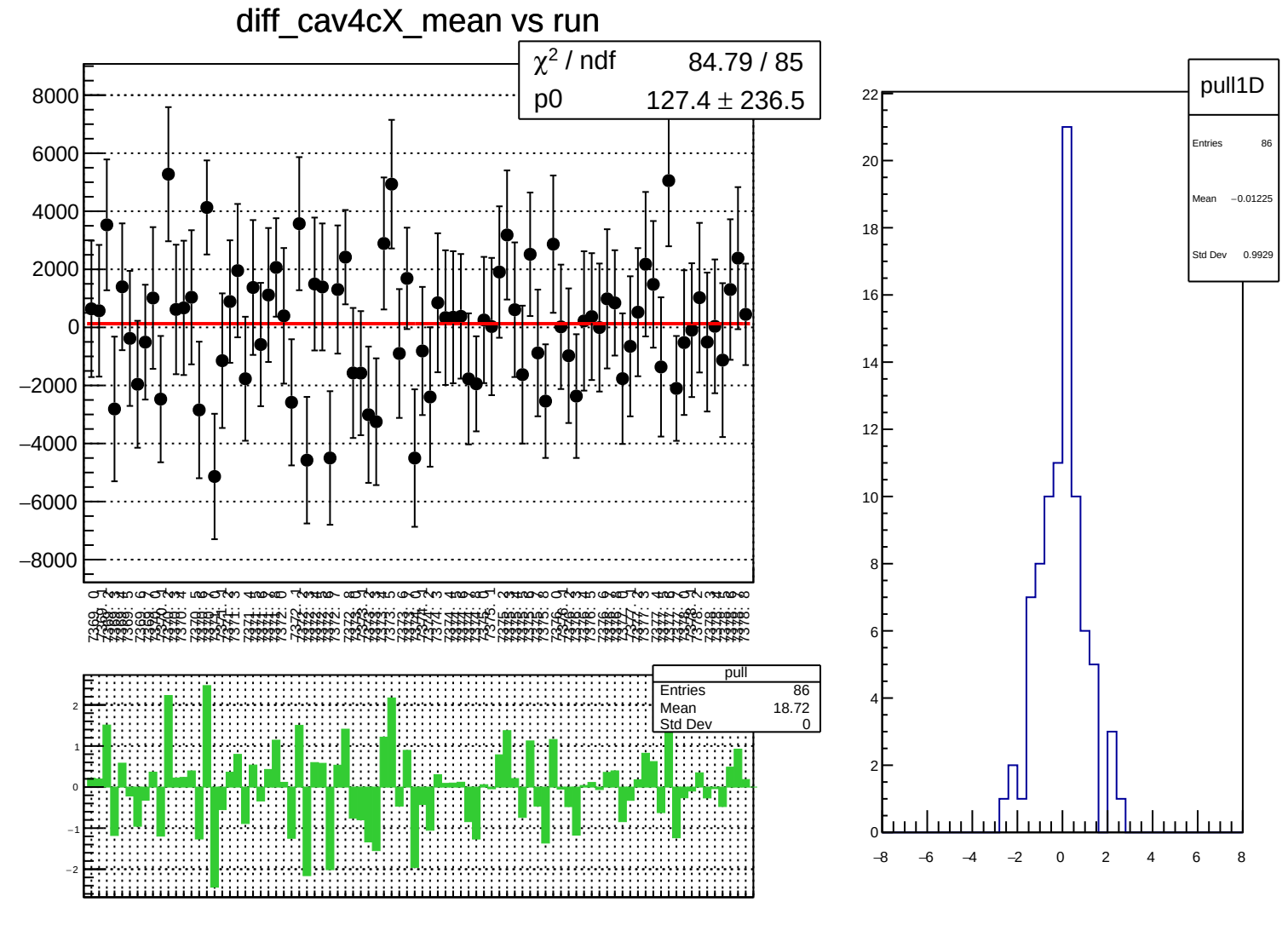

pull1D
Entries 86
Mean −0.01184
Std Dev 0.9994

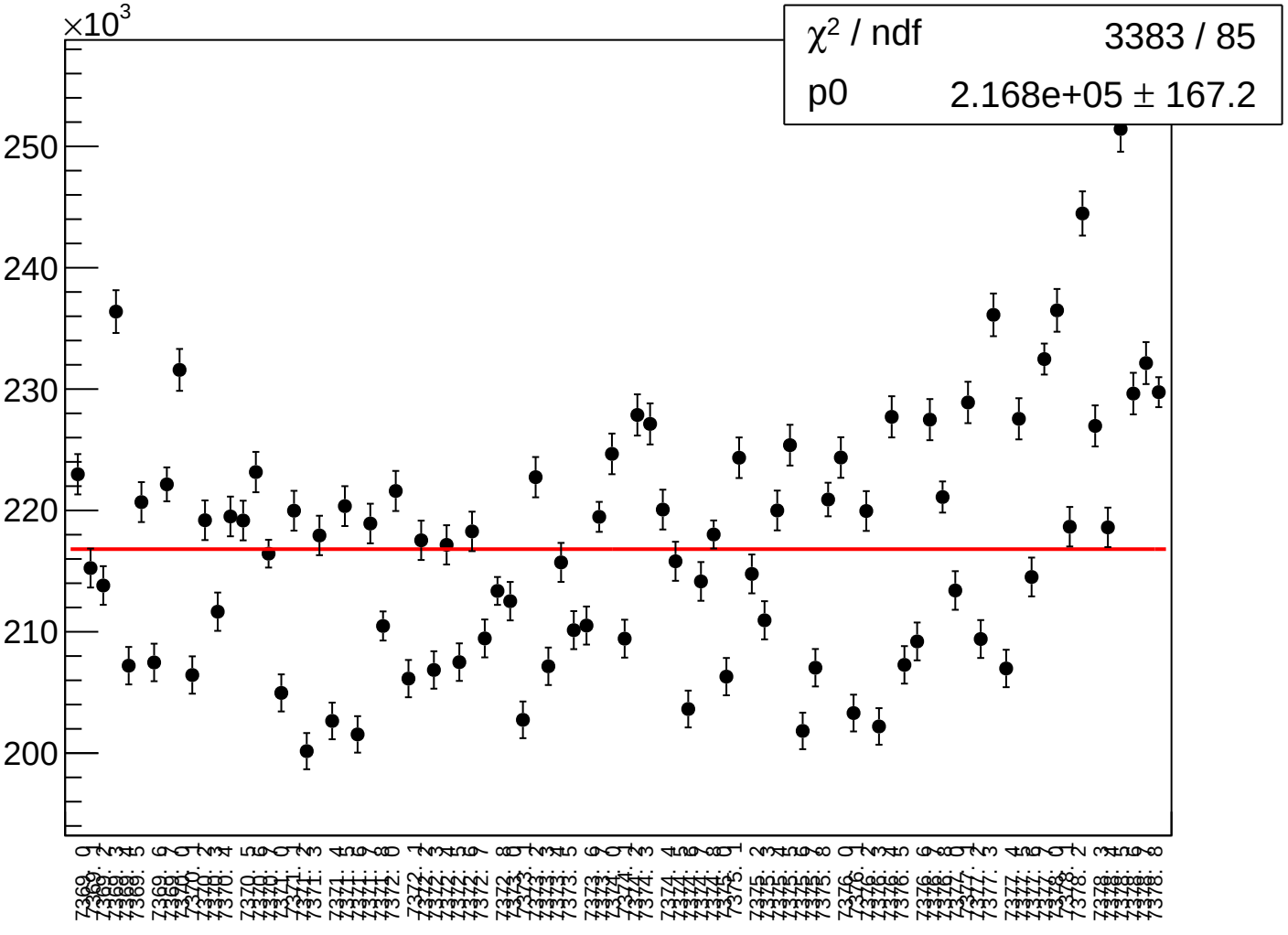

diff_cav4bX_rms vs run
×10^3
χ² / ndf 3592 / 85
p0 4.791e+05 ± 369.6
540
520
500
480
460
440

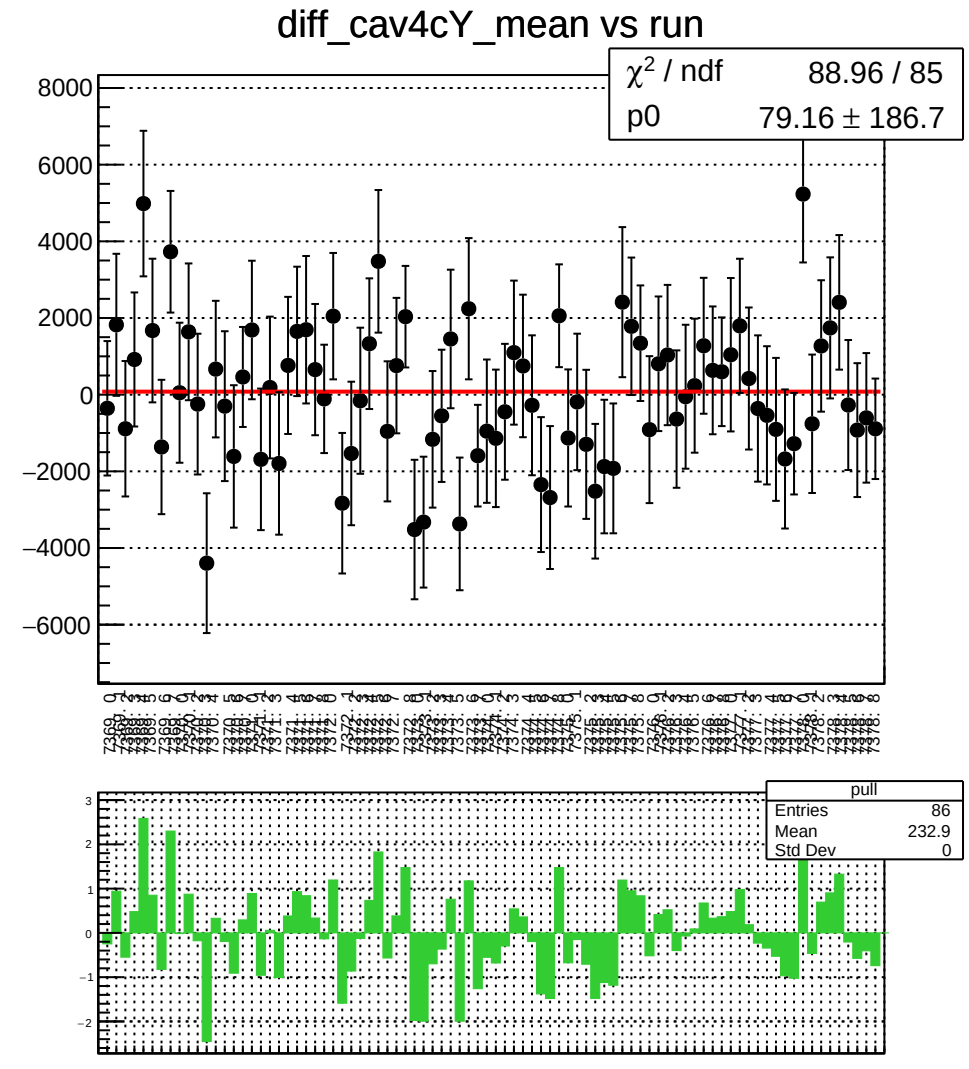

diff_cav4bY_mean vs run
χ² / ndf 87.85 / 85
p0 218.5 ± 355.6
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 94.8
Std Dev 0
3
2
1
0
−1
−2

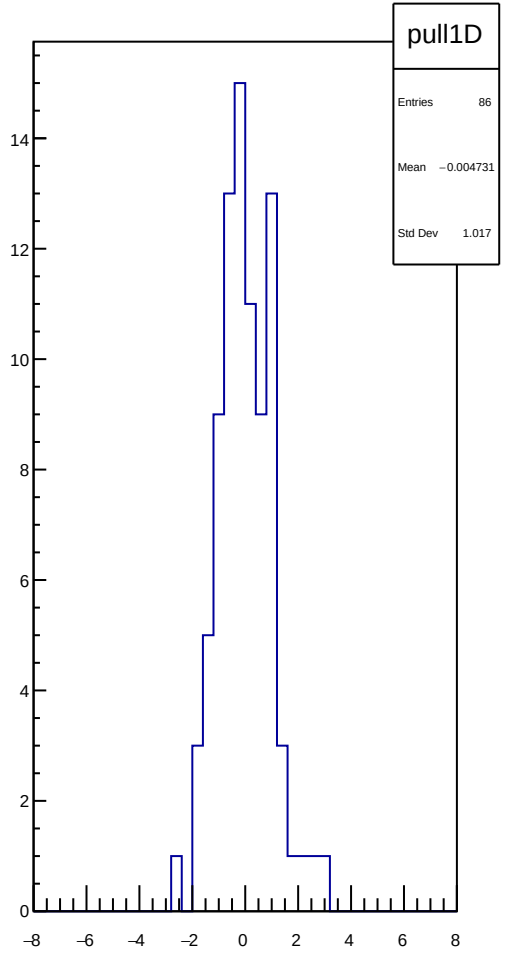

pull1D
Entries 86
Mean −0.009343
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

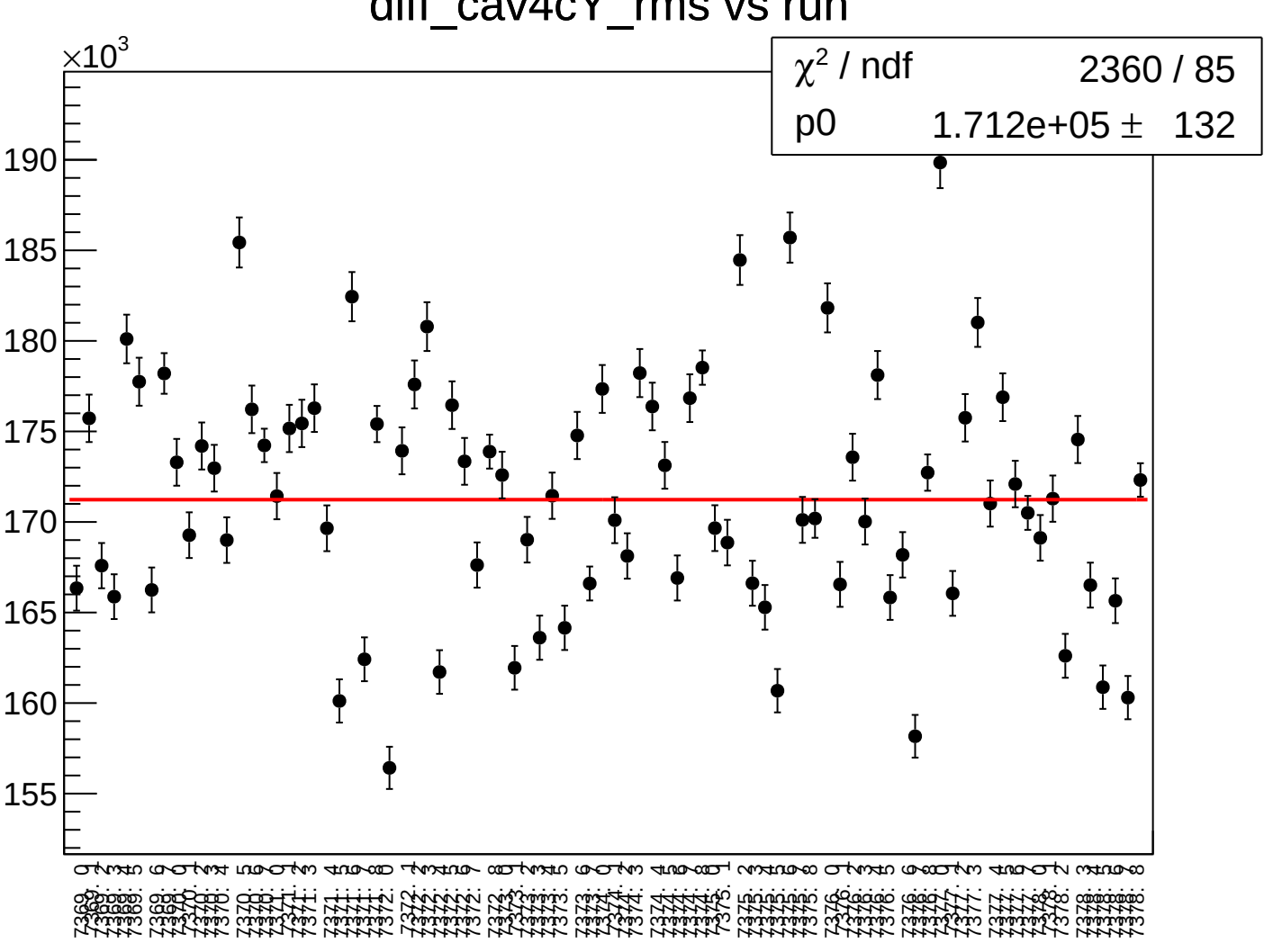

diff_cav4bY_rms vs run
×10^3
360
350
340
330
320
310
300
290
χ² / ndf 2903 / 85
p0 3.26e+05 ± 251.4

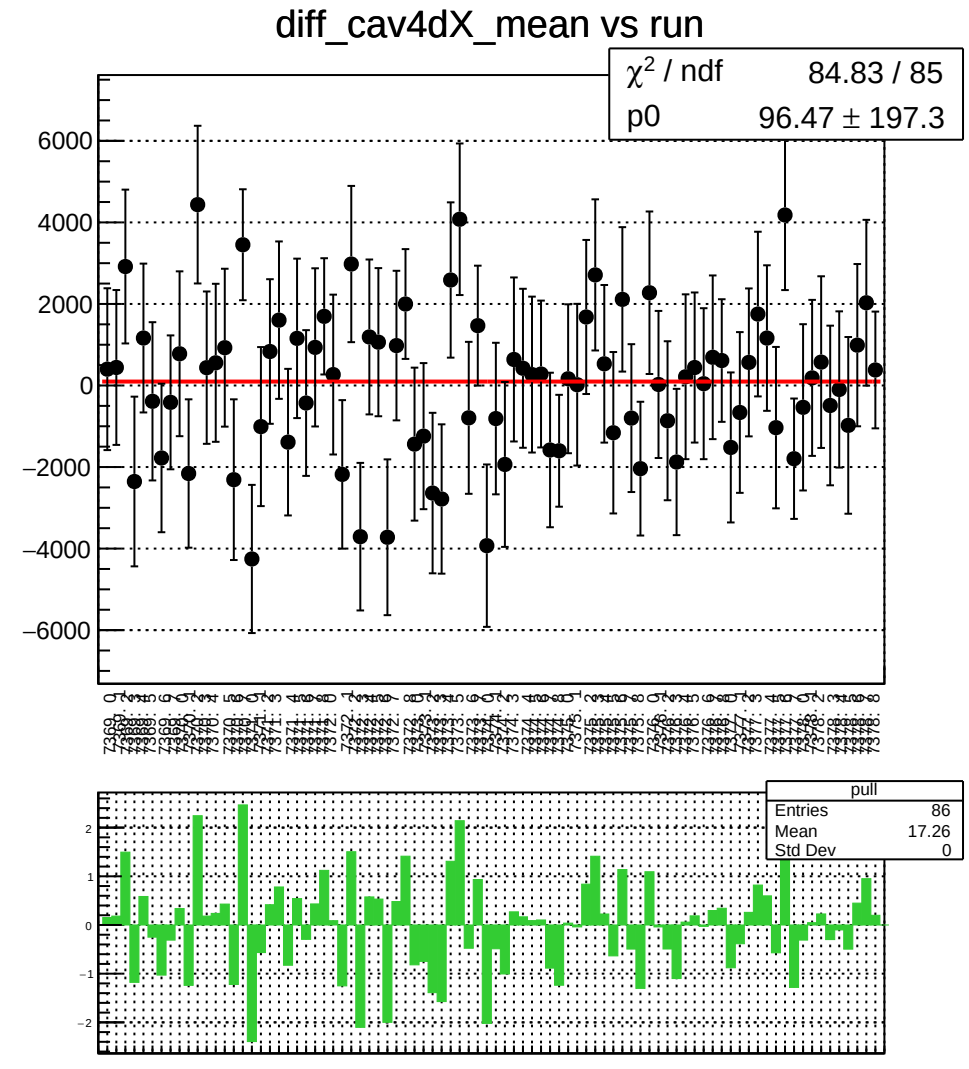

diff_cav4cX_mean vs run
χ^2 / ndf 84.79 / 85
p0 127.4 ± 236.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean 18.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01225
Std Dev 0.9929
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

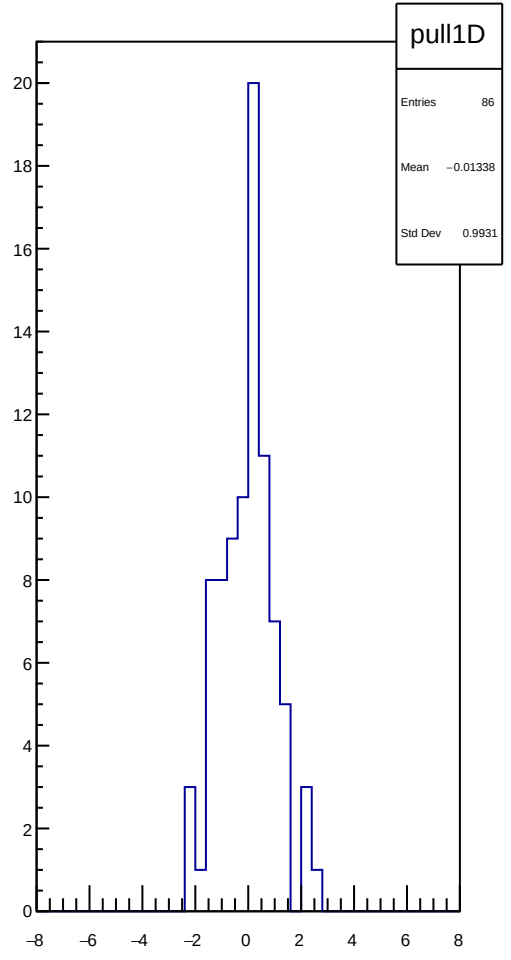

diff_cav4cX_rms vs run
×10^3
χ² / ndf 3383 / 85
p0 2.168e+05 ± 167.2
250
240
230
220
210
200

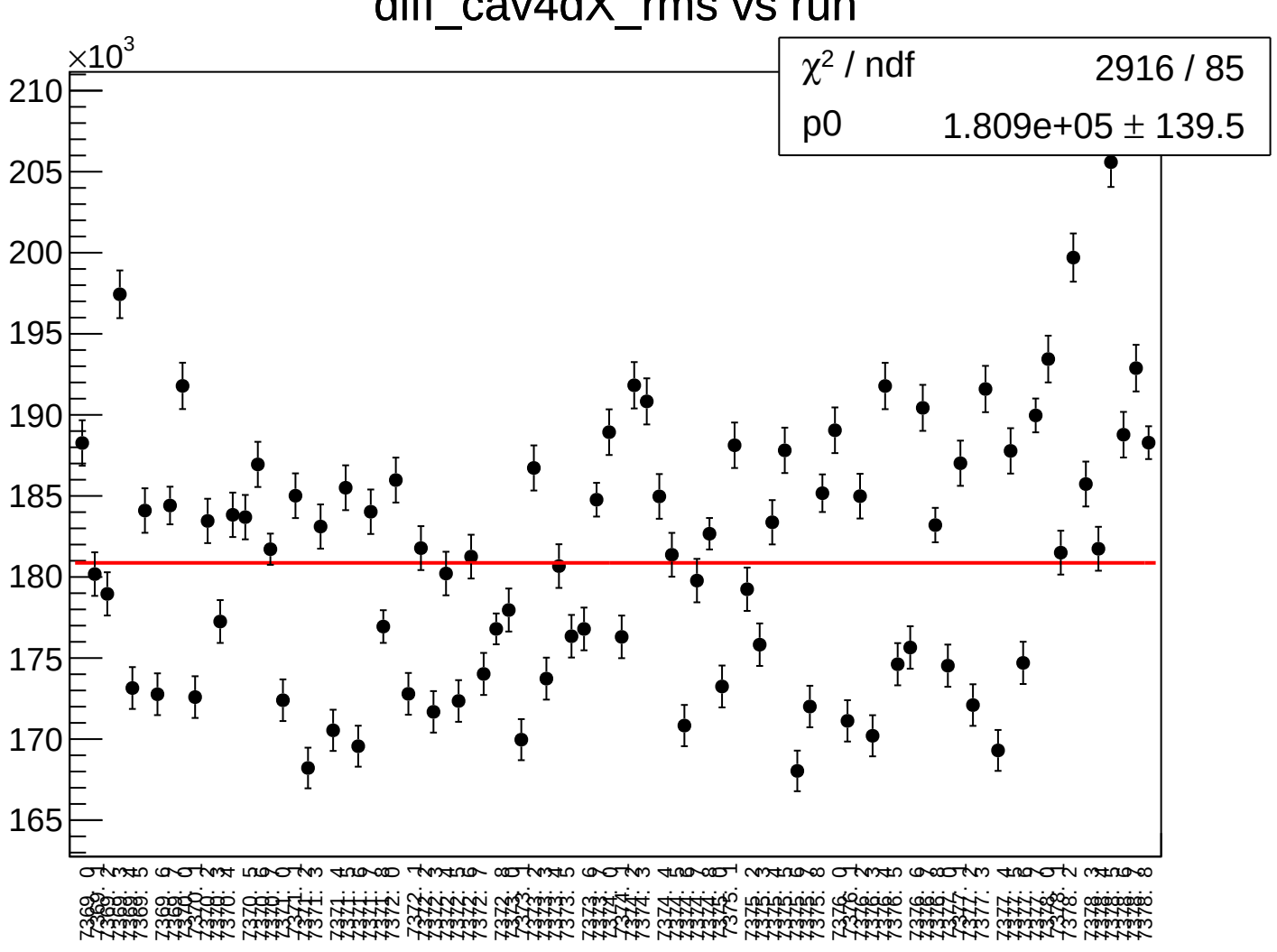

diff_cav4cY_mean vs run
χ² / ndf 88.96 / 85
p0 79.16 ± 186.7
pull
Entries 86
Mean 232.9
Std Dev 0

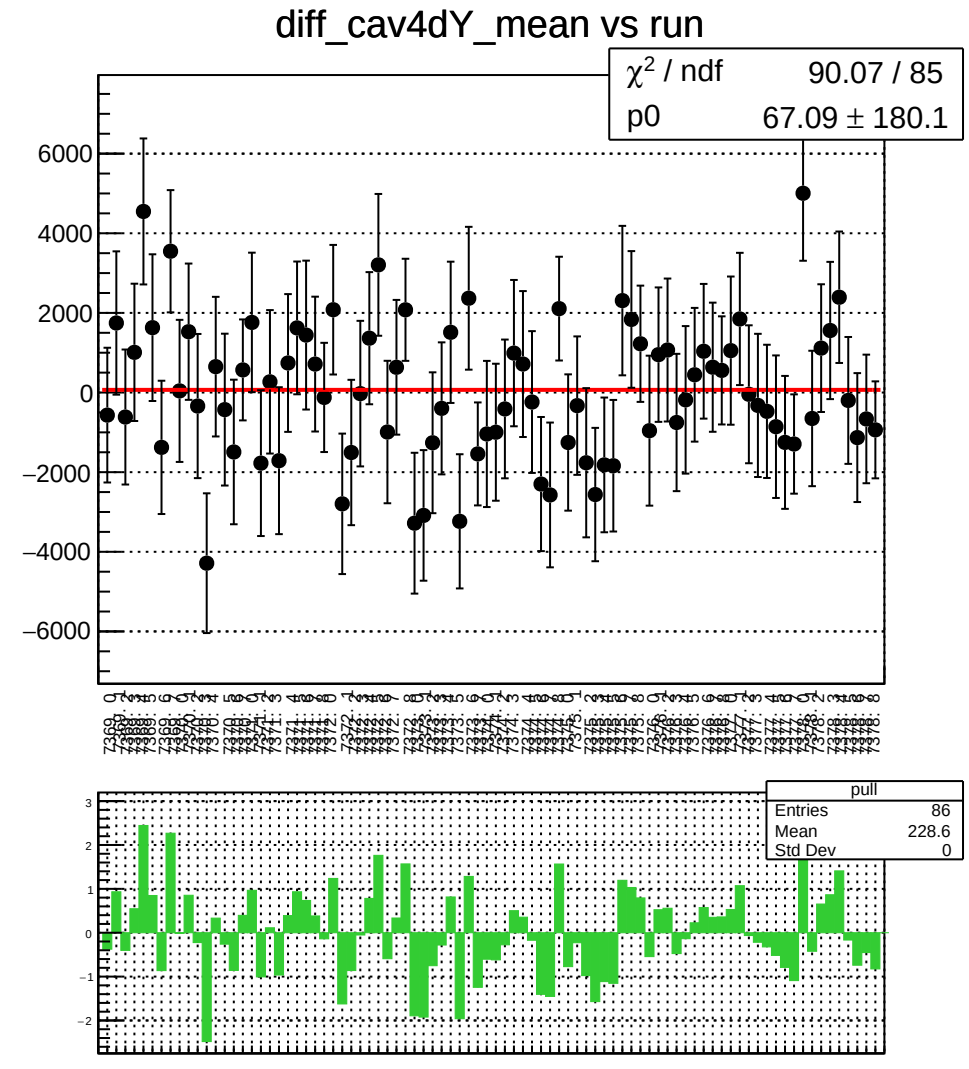

pull1D
Entries 86
Mean −0.004731
Std Dev 1.017

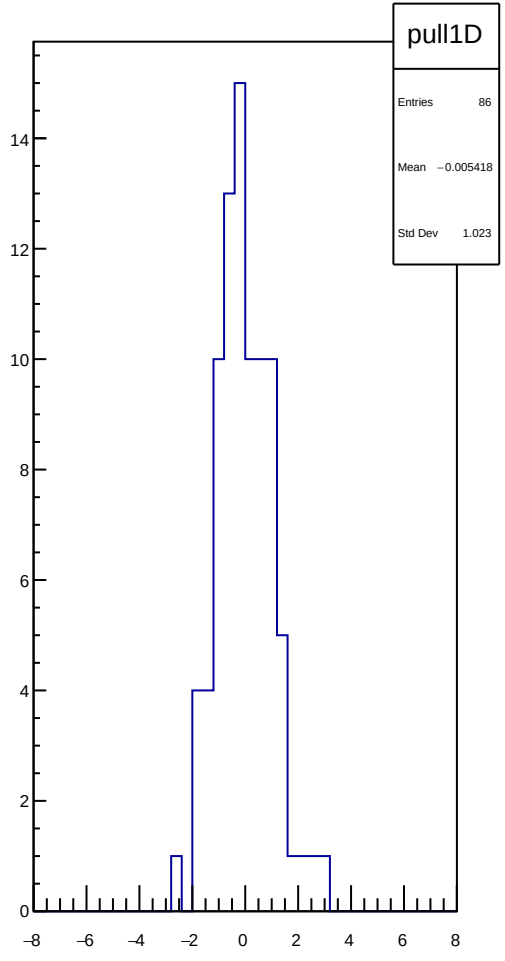

diff_cav4cY_rms vs run
×10^3
χ² / ndf 2360 / 85
p0 1.712e+05 ± 132
190
185
180
175
170
165
160
155

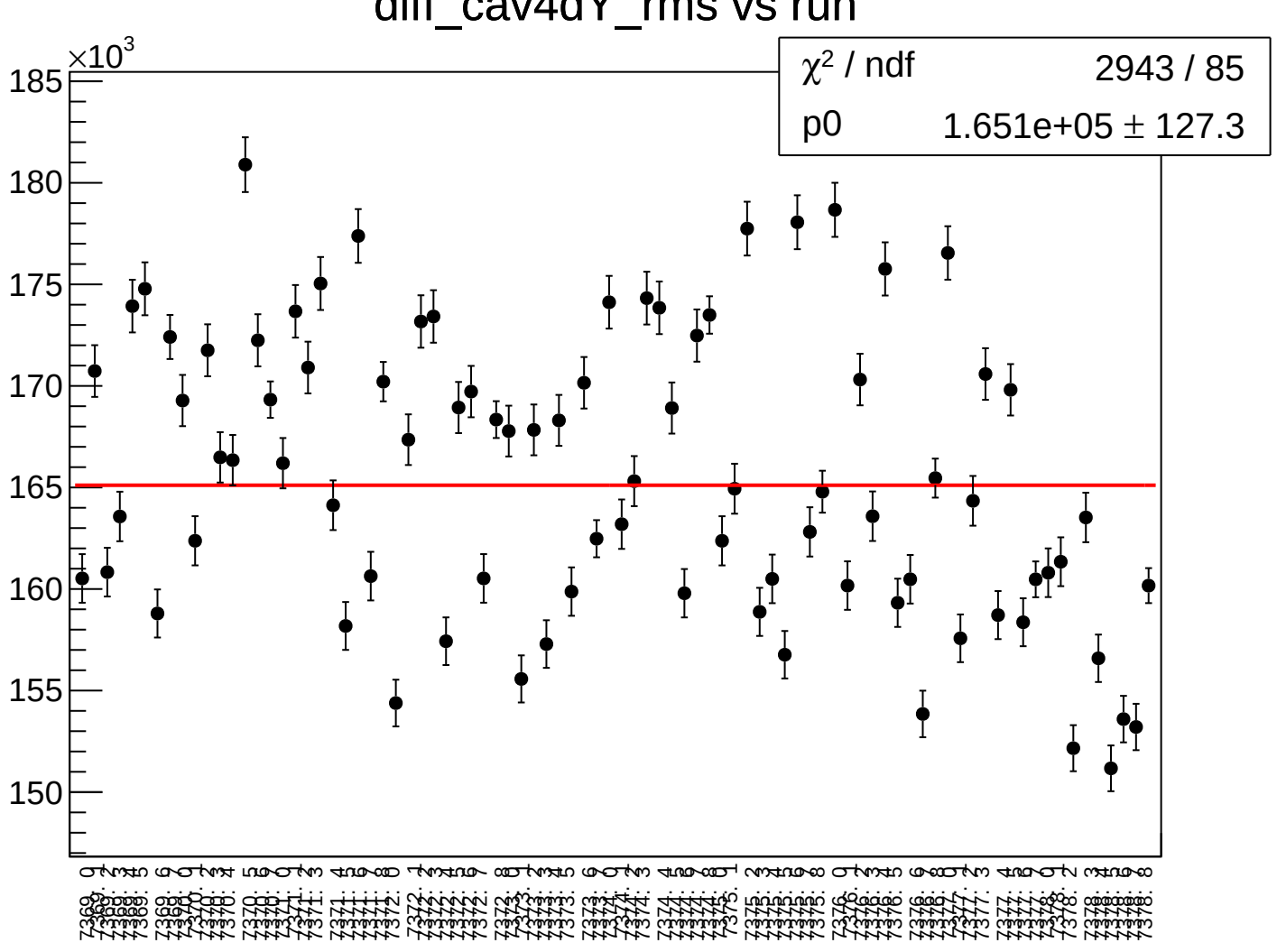

diff_cav4dX_mean vs run
χ² / ndf 84.83 / 85
p0 96.47 ± 197.3
pull
Entries 86
Mean 17.26
Std Dev 0

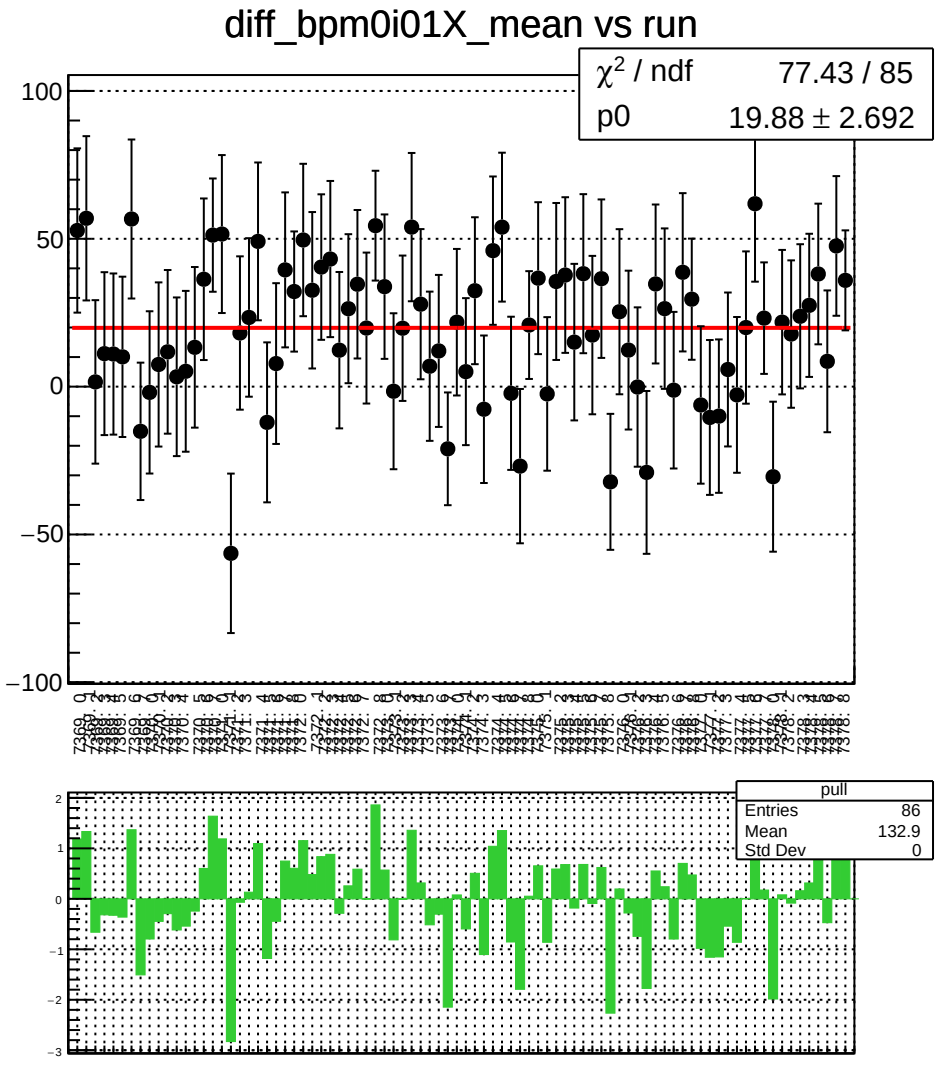

pull1D
Entries 86
Mean −0.01338
Std Dev 0.9931

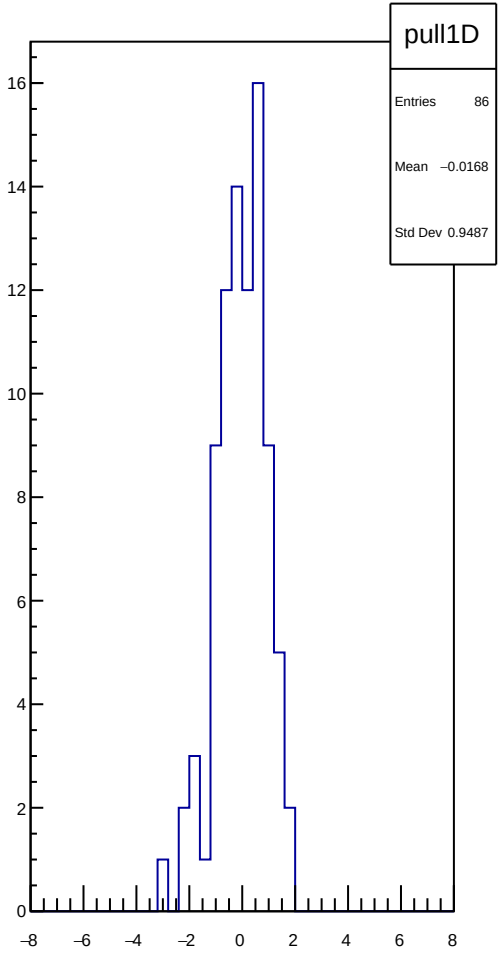

diff_cav4dX_rms vs run
×10^3
χ² / ndf 2916 / 85
p0 1.809e+05 ± 139.5
210
205
200
195
190
185
180
175
170
165

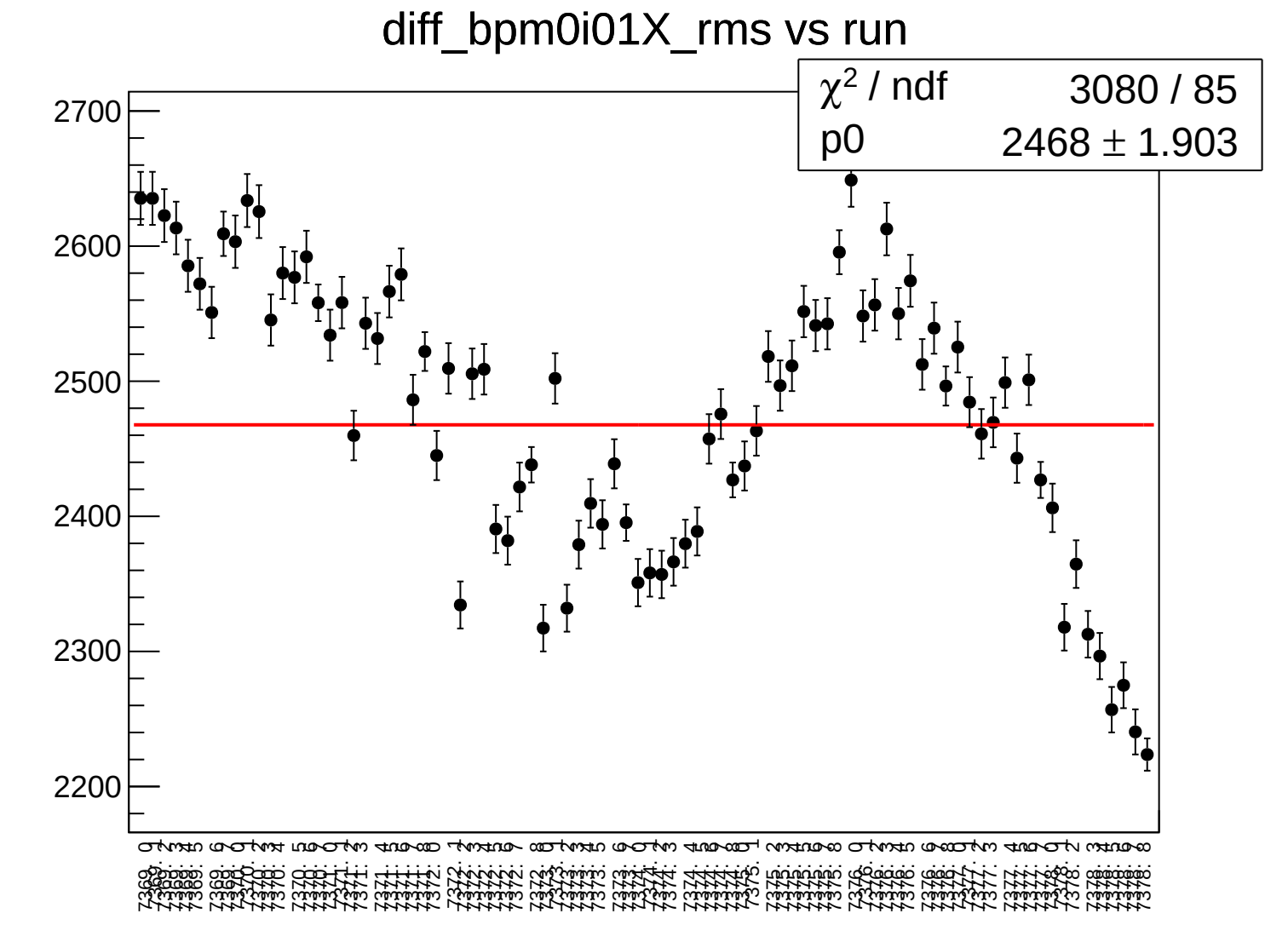

diff_cav4dY_mean vs run
χ² / ndf 90.07 / 85
p0 67.09 ± 180.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 228.6
Std Dev 0
3
2
1
0
−1
−2

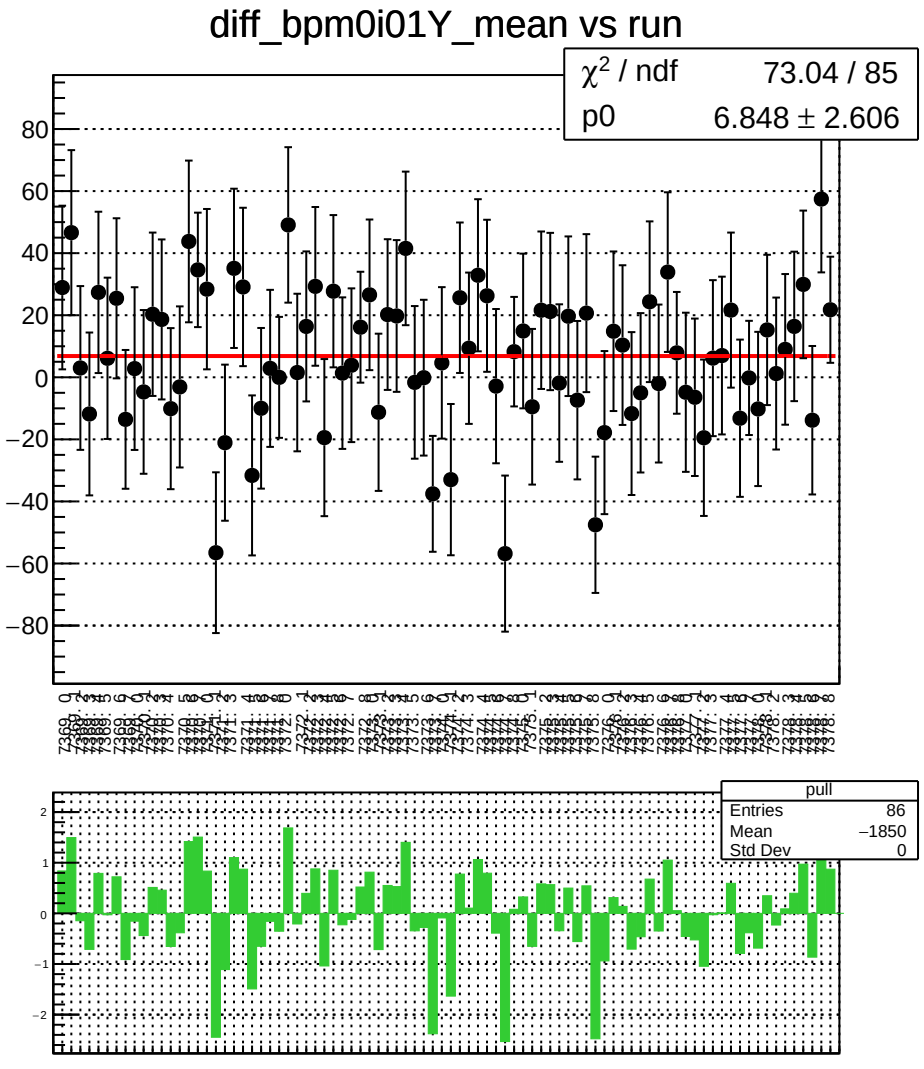

pull1D
Entries 86
Mean −0.005418
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

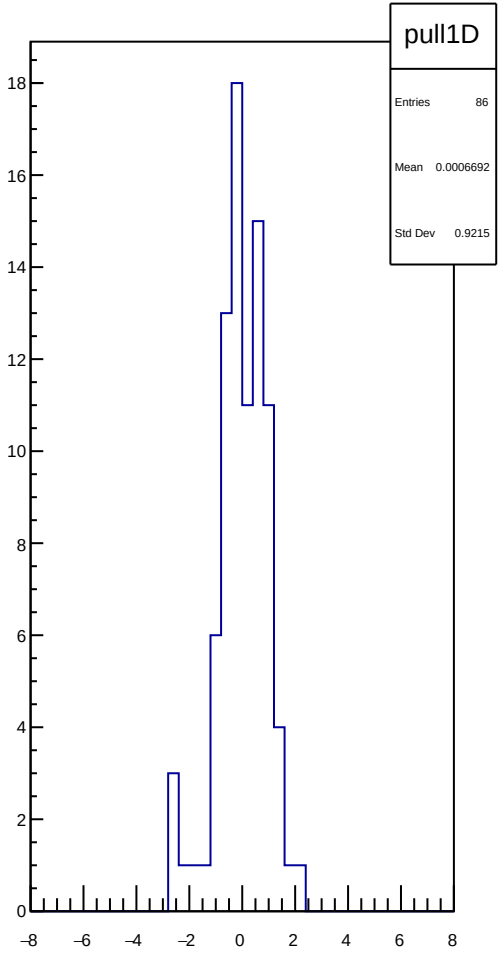

diff_cav4dY_rms vs run
×10^3
185
180
175
170
165
160
155
150
χ² / ndf 2943 / 85
p0 1.651e+05 ± 127.3

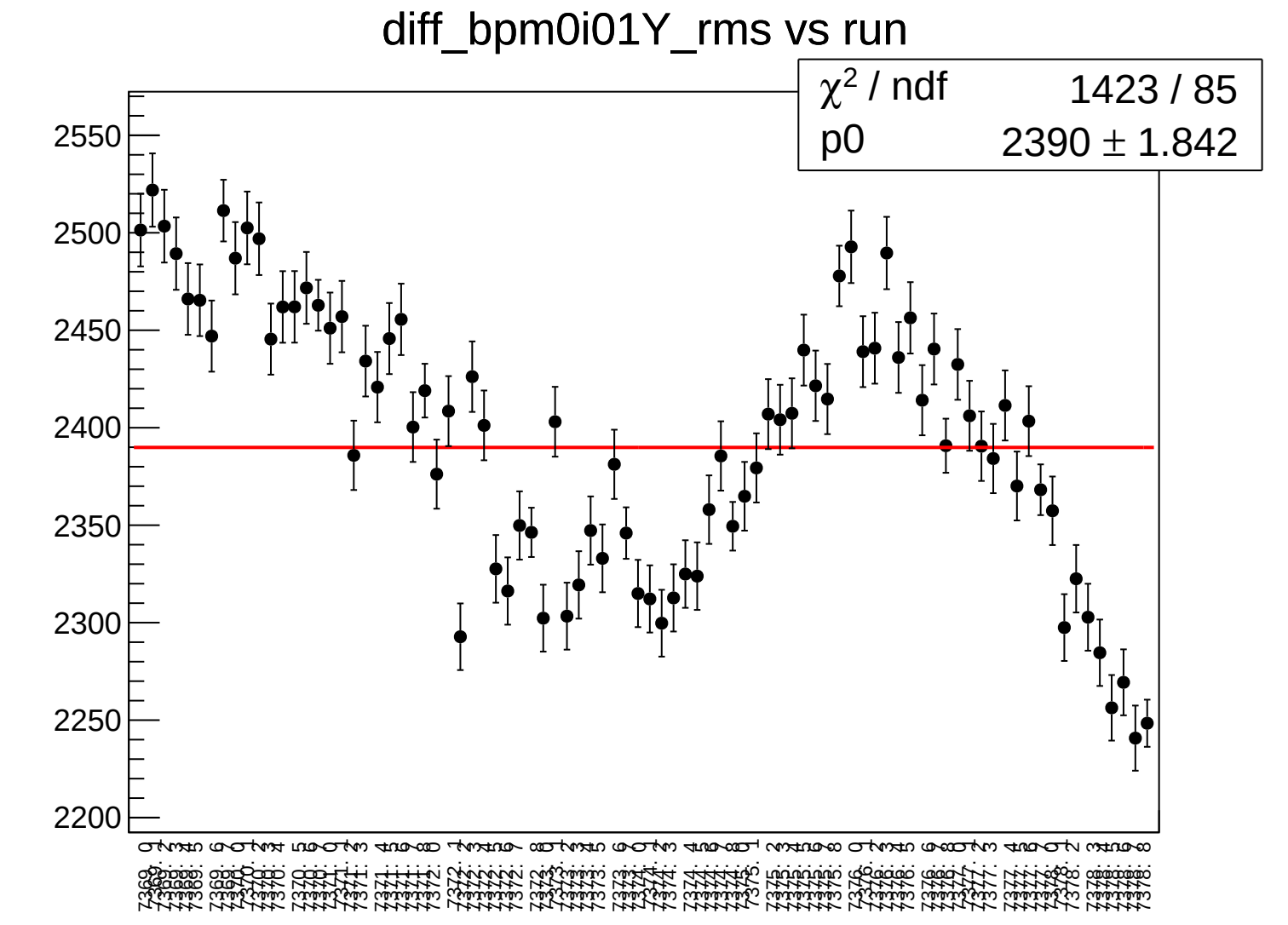

diff_bpm0i01X_mean vs run
χ^2 / ndf 77.43 / 85
p0 19.88 ± 2.692
pull
Entries 86
Mean 132.9
Std Dev 0

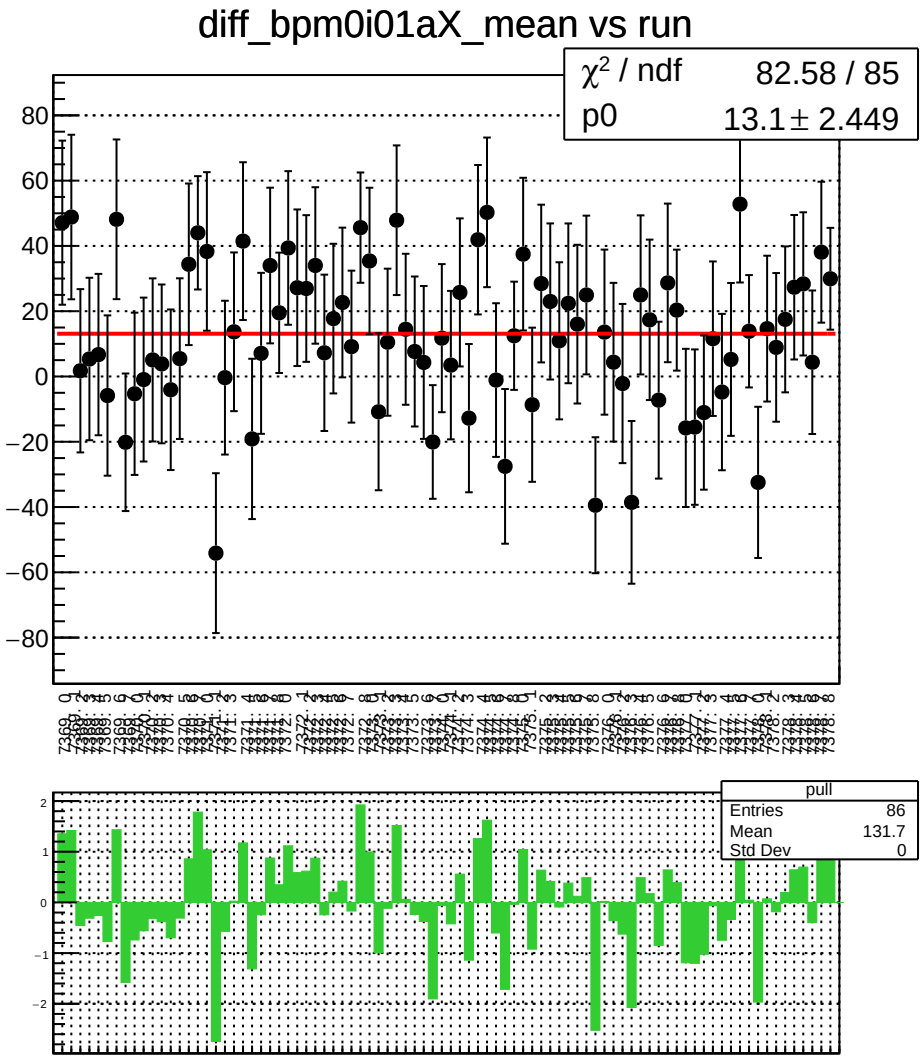

pull1D
Entries 86
Mean −0.0168
Std Dev 0.9487

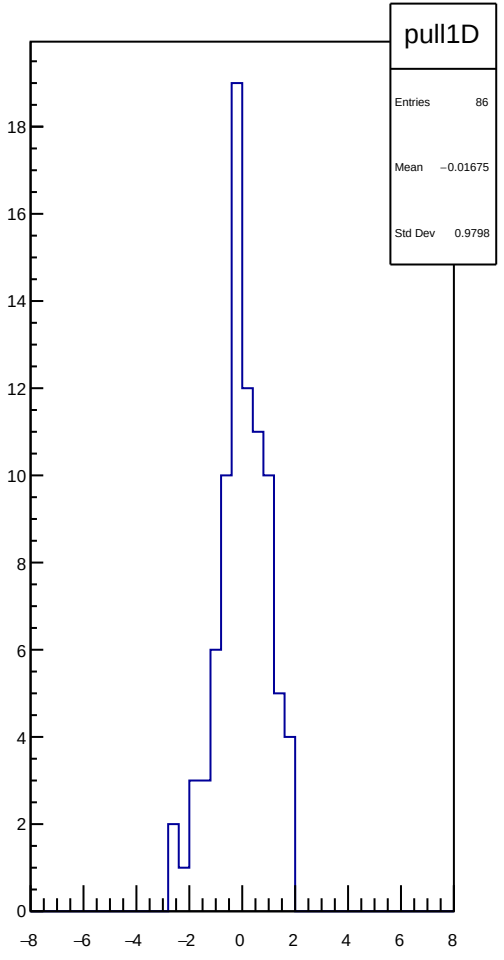

diff_bpm0i01X_rms vs run
χ² / ndf 3080 / 85
p0 2468 ± 1.903
2700
2600
2500
2400
2300
2200

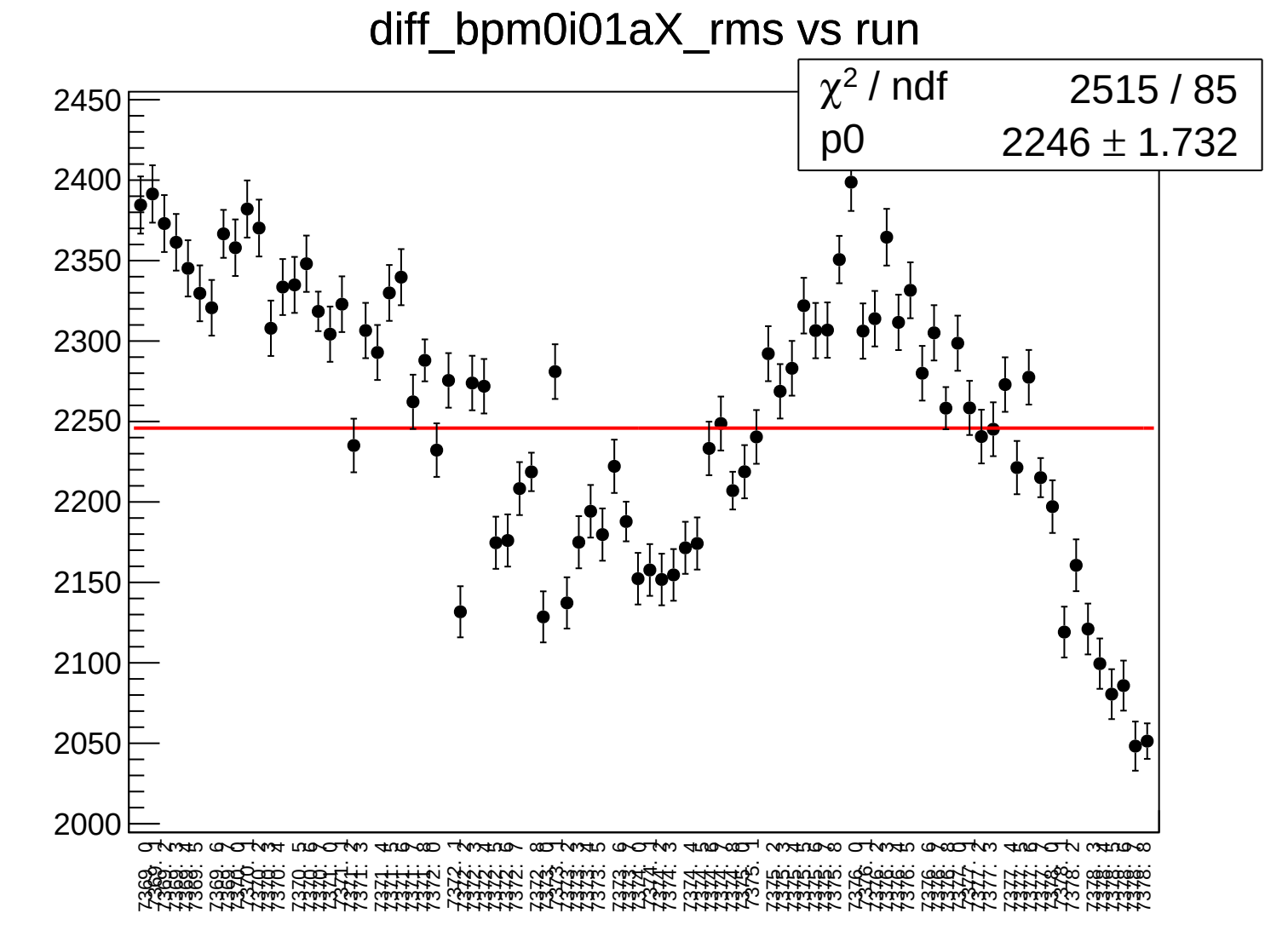

diff_bpm0i01Y_mean vs run
χ² / ndf 73.04 / 85
p0 6.848 ± 2.606
pull
Entries 86
Mean −1850
Std Dev 0

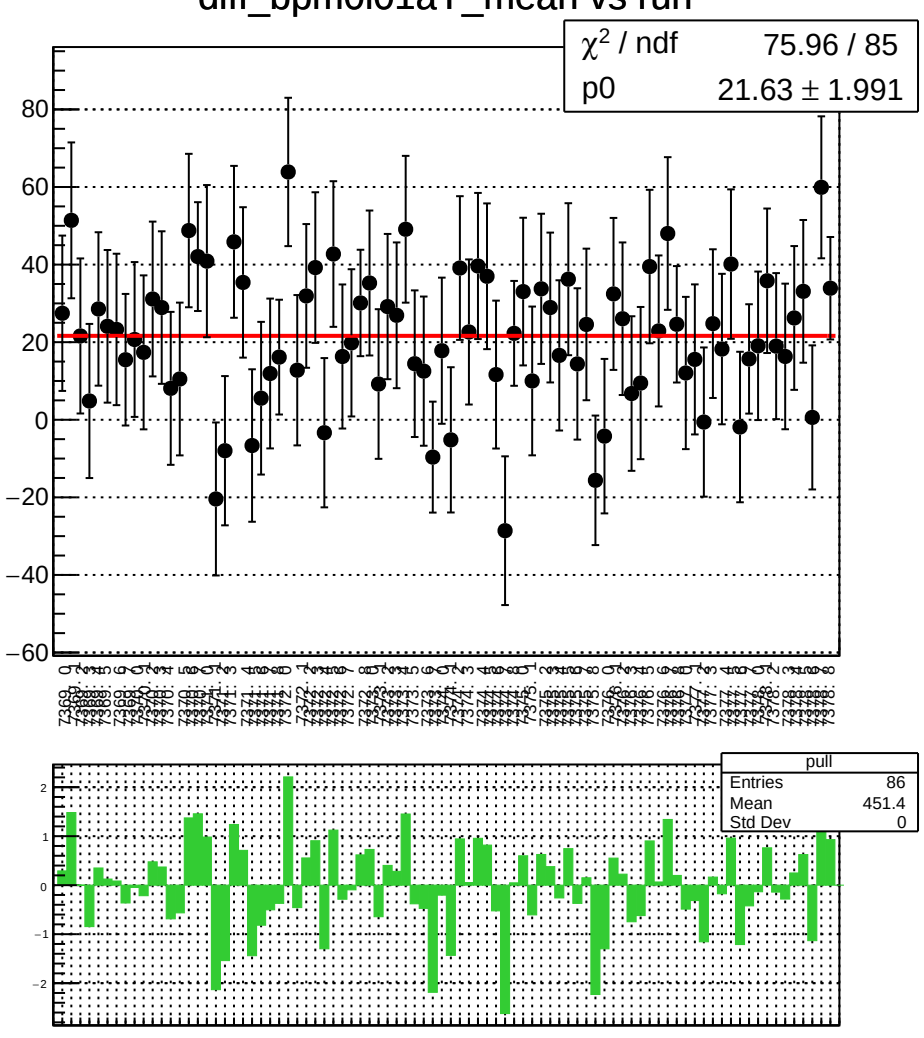

pull1D
Entries 86
Mean 0.0006692
Std Dev 0.9215

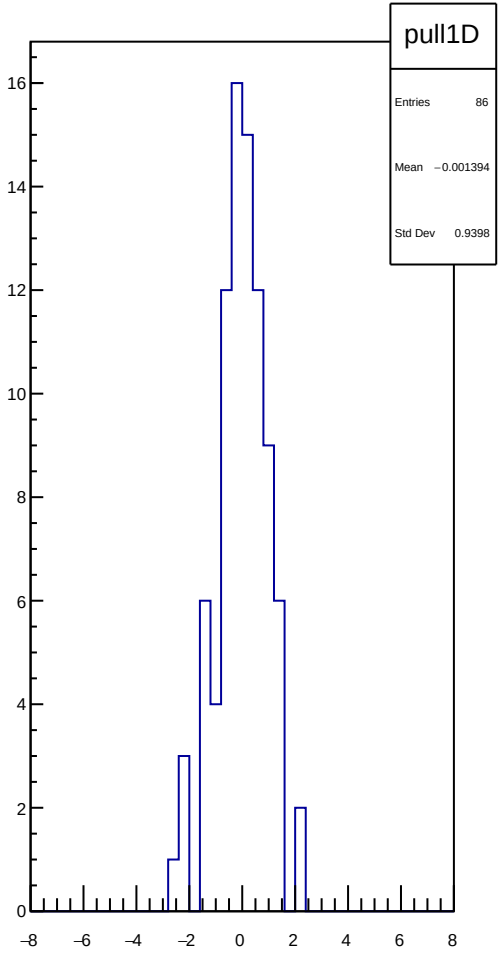

diff_bpm0i01Y_rms vs run
χ² / ndf 1423 / 85
p0 2390 ± 1.842
2550
2500
2450
2400
2350
2300
2250
2200

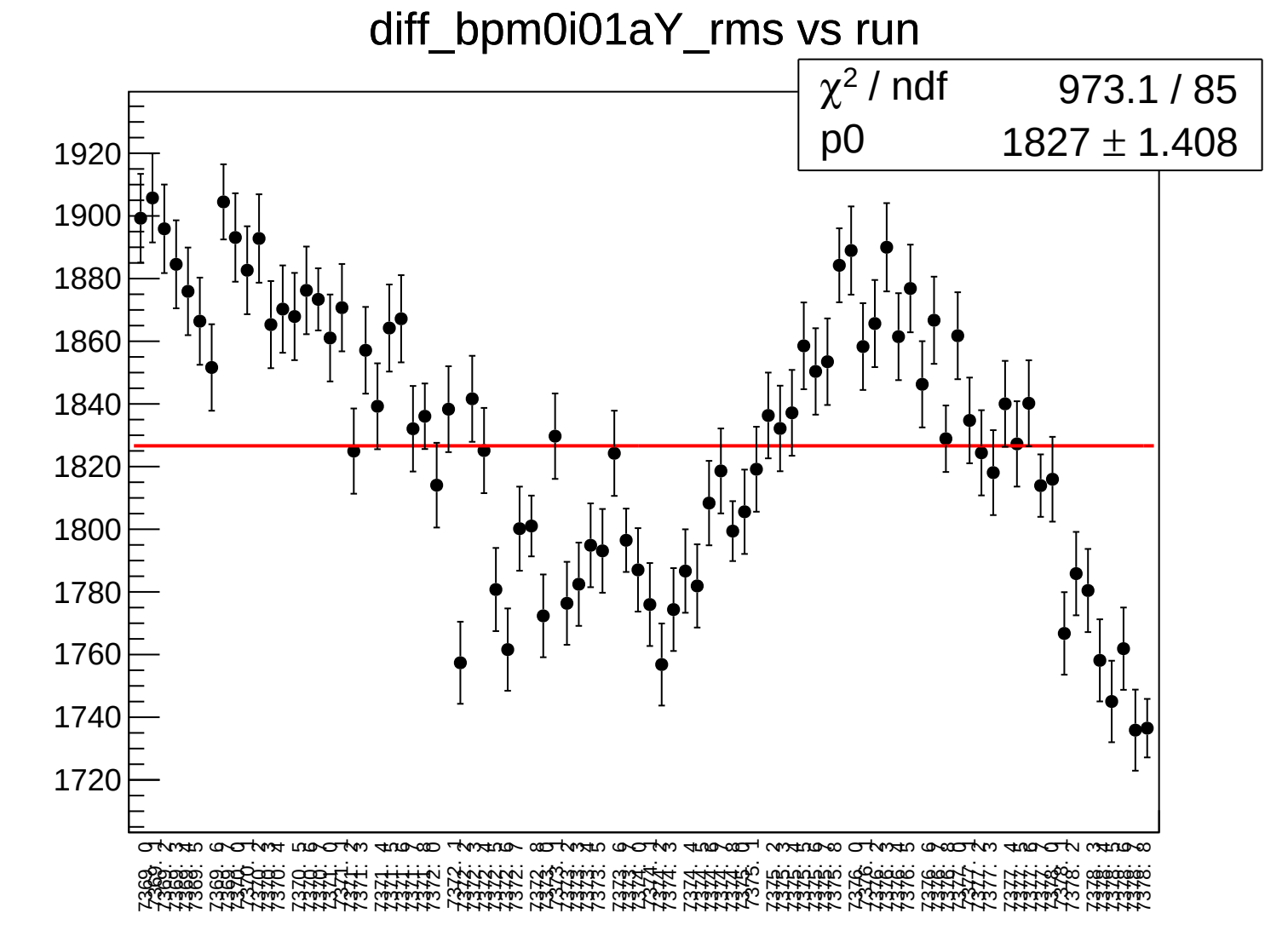

diff_bpm0i01aX_mean vs run
χ² / ndf 82.58 / 85
p0 13.1 ± 2.449
pull
Entries 86
Mean 131.7
Std Dev 0

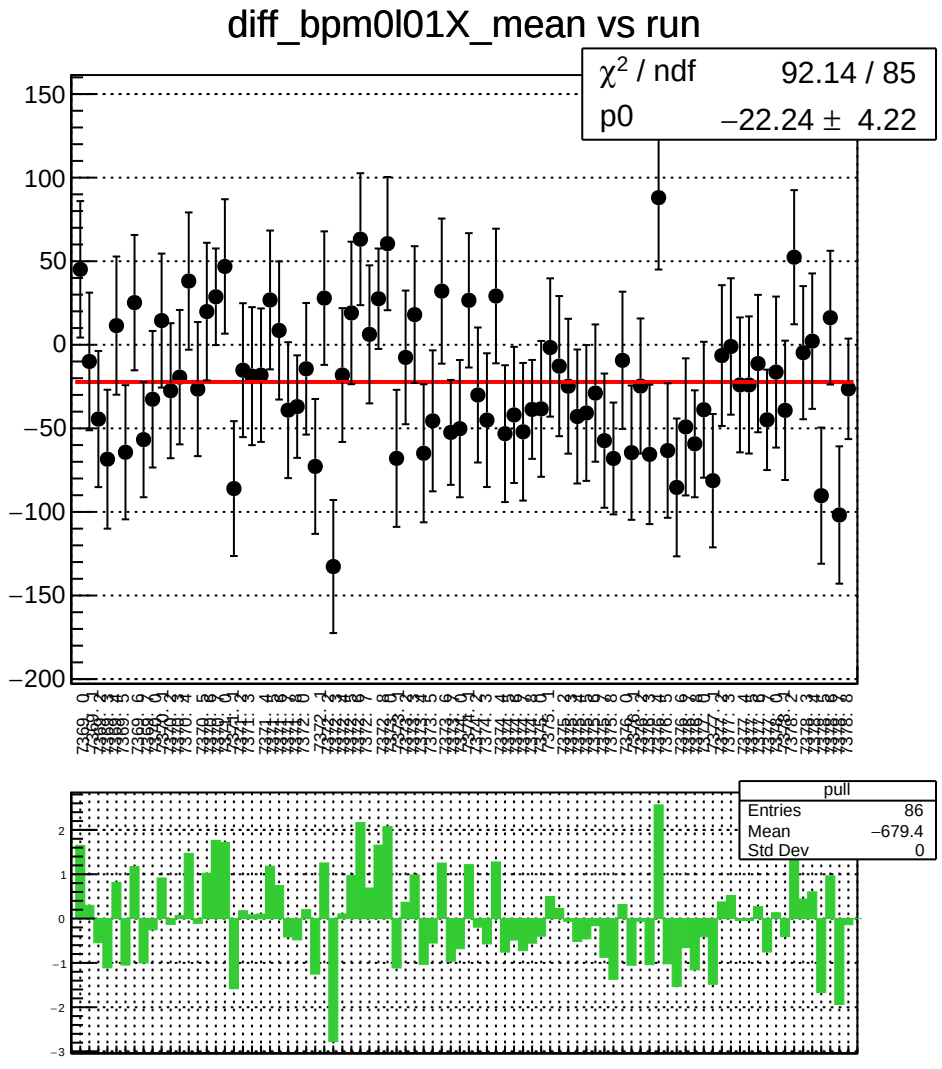

pull1D
Entries 86
Mean −0.01675
Std Dev 0.9798

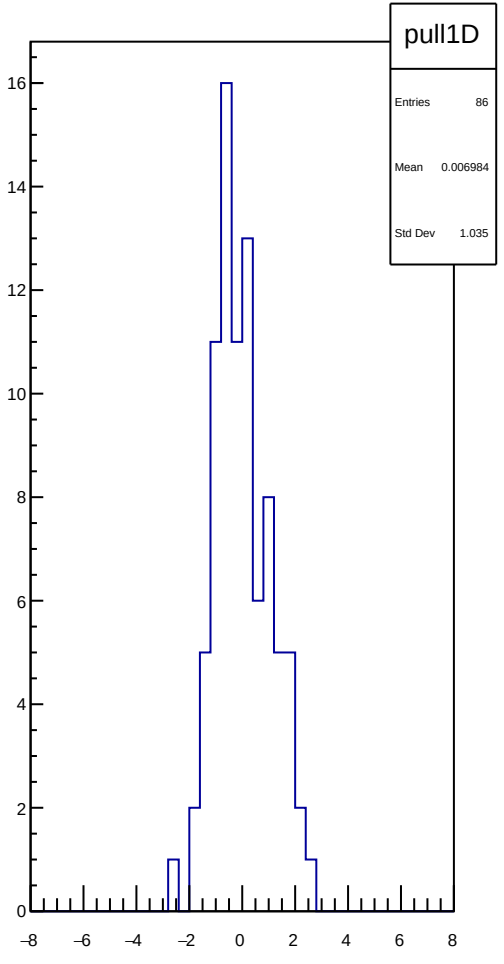

diff_bpm0i01aX_rms vs run
χ² / ndf 2515 / 85
p0 2246 ± 1.732
2450
2400
2350
2300
2250
2200
2150
2100
2050
2000

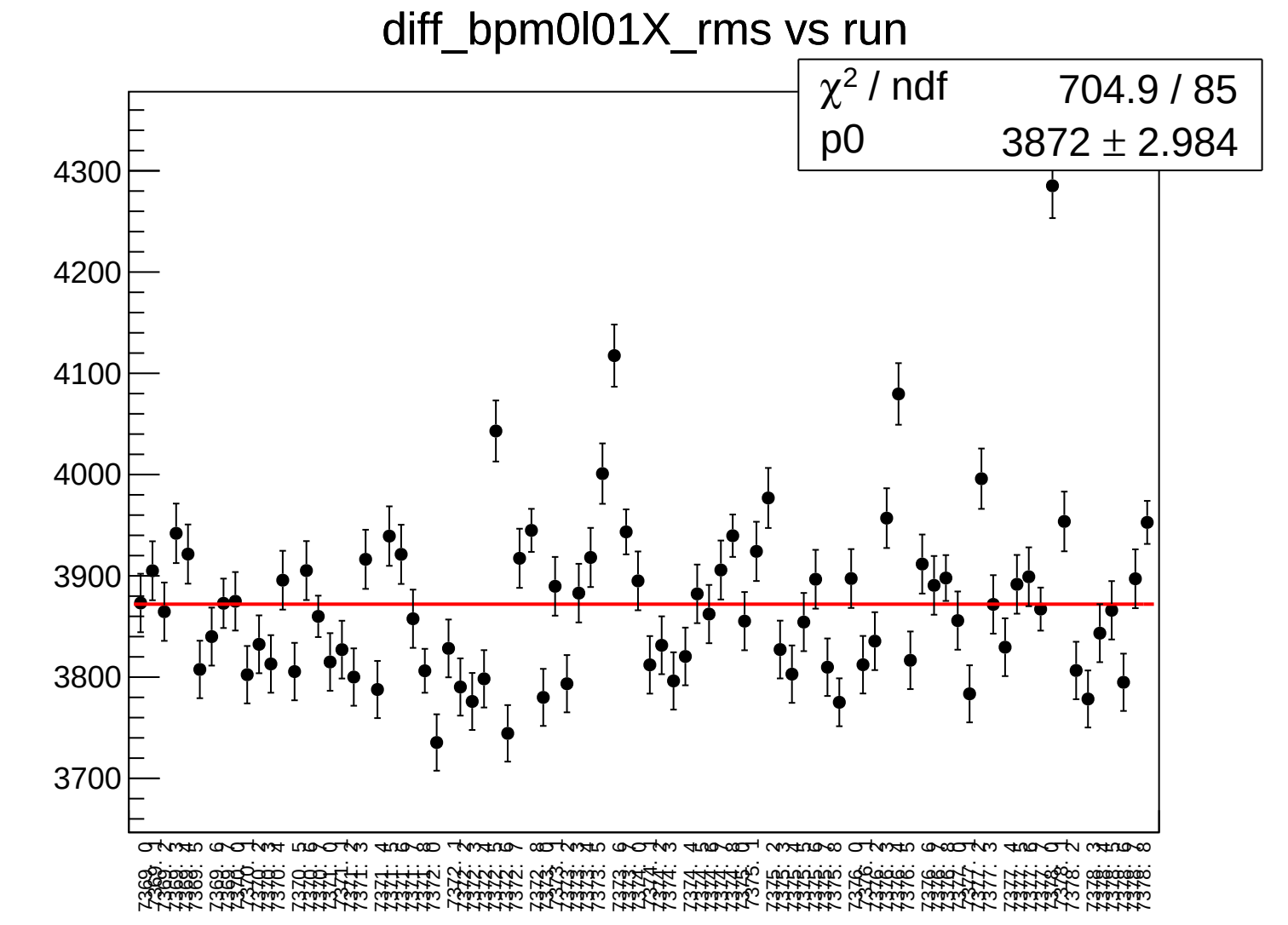

diff_bpm0i01aY_mean vs run
χ^2 / ndf 75.96 / 85
p0 21.63 ± 1.991
pull
Entries 86
Mean 451.4
Std Dev 0

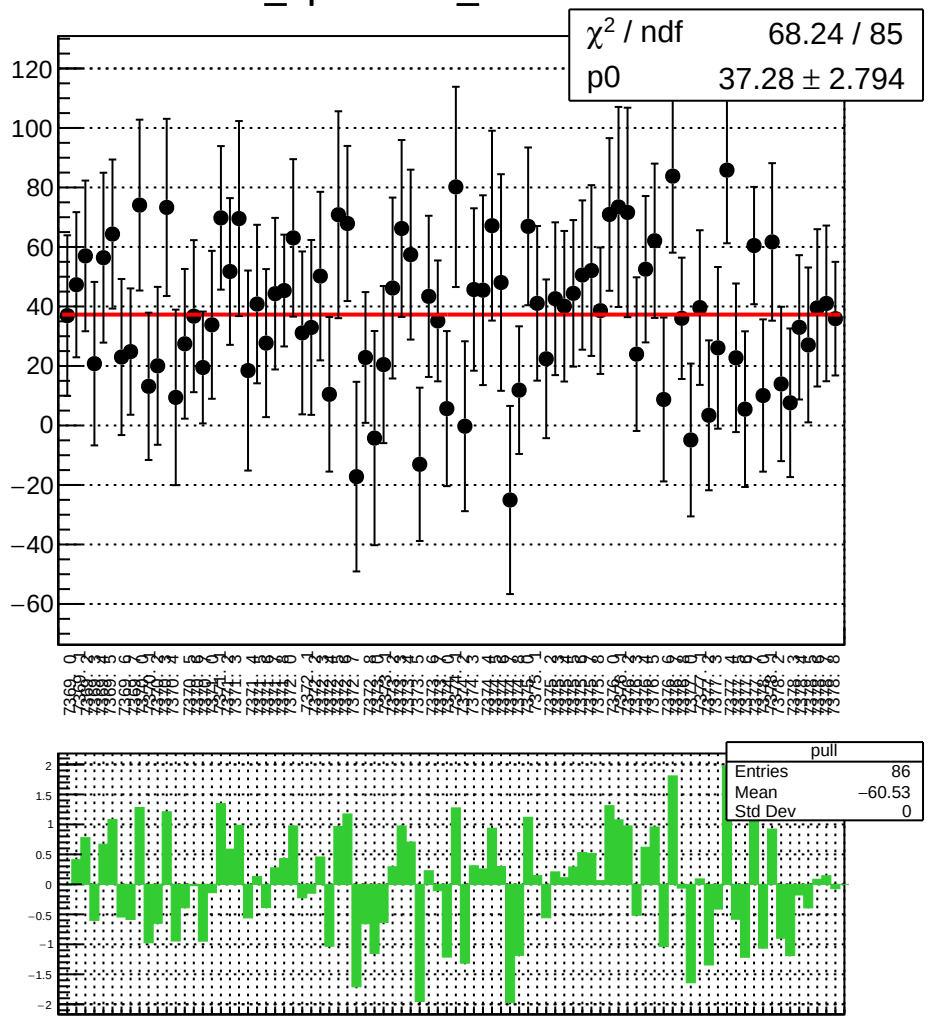

pull1D
Entries 86
Mean −0.001394
Std Dev 0.9398

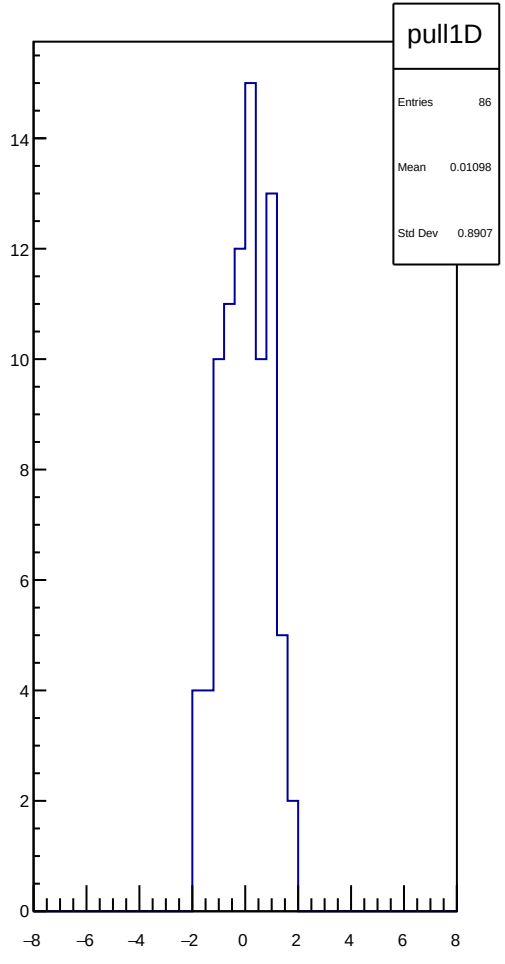

diff_bpm0i01aY_rms vs run
χ^2 / ndf 973.1 / 85
p0 1827 ± 1.408
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

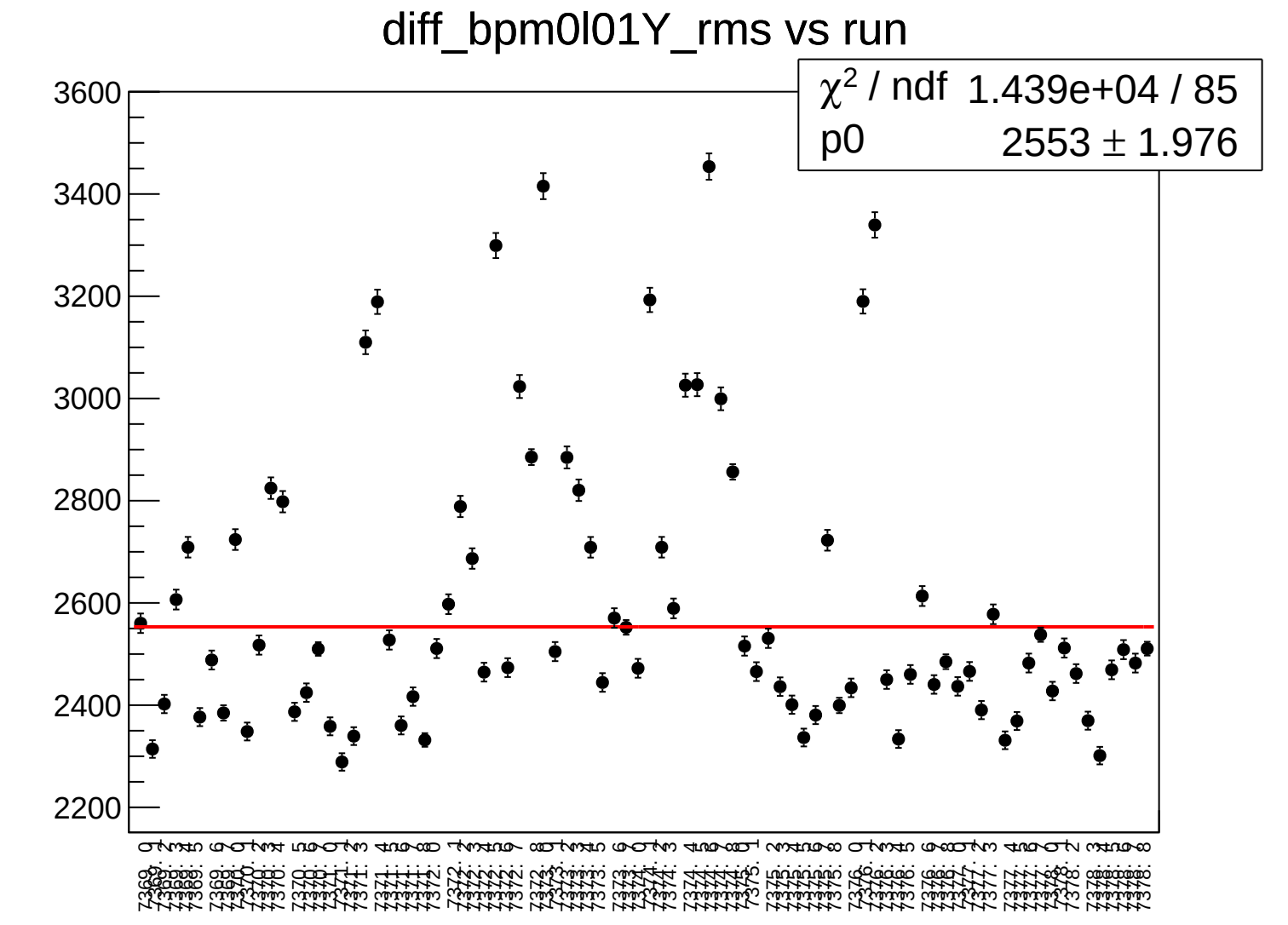

diff_bpm0l01X_mean vs run
χ² / ndf 92.14 / 85
p0 −22.24 ± 4.22
pull
Entries 86
Mean −679.4
Std Dev 0

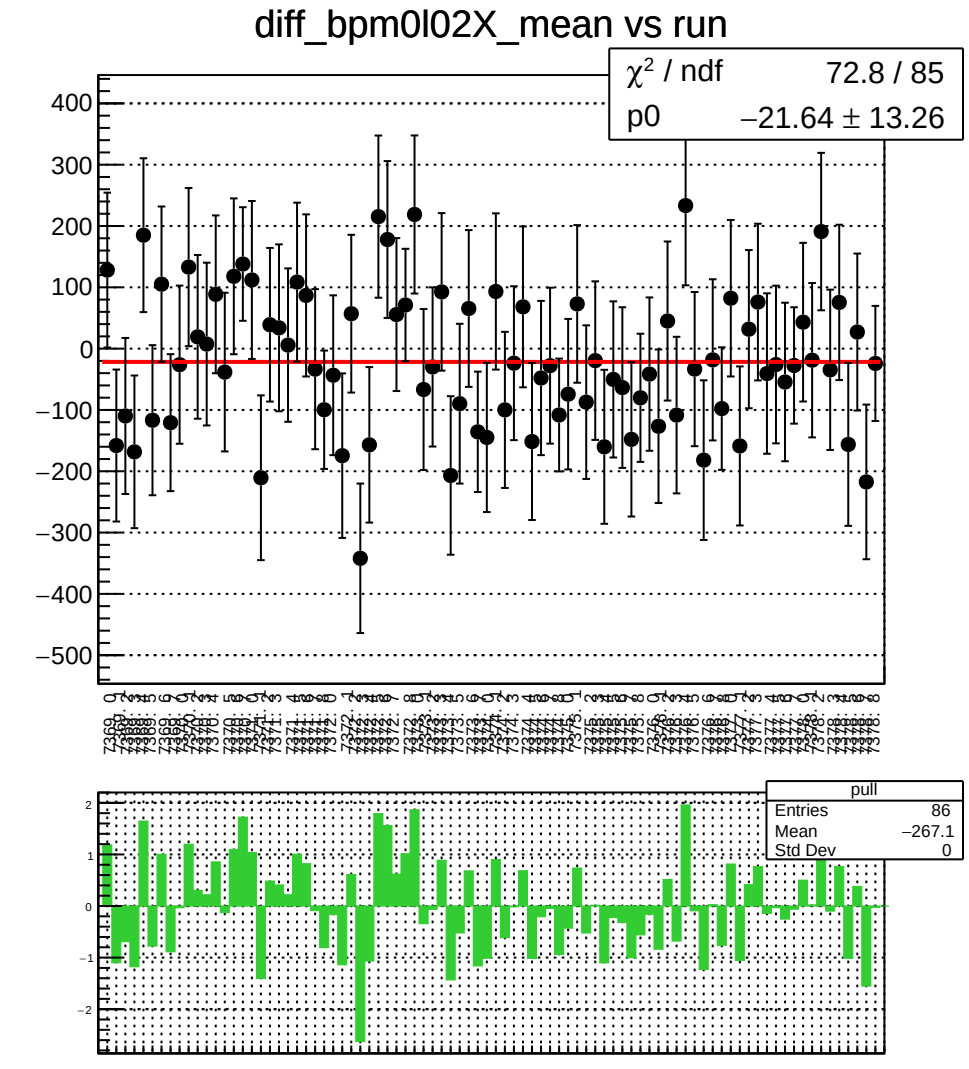

pull1D
Entries 86
Mean 0.006984
Std Dev 1.035

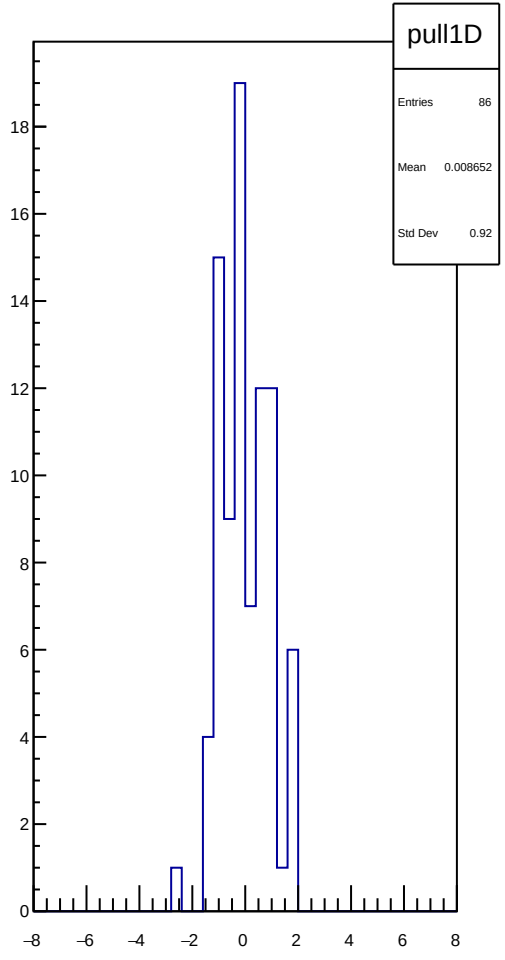

diff_bpm0l01X_rms vs run
χ² / ndf 704.9 / 85
p0 3872 ± 2.984
4300
4200
4100
4000
3900
3800
3700

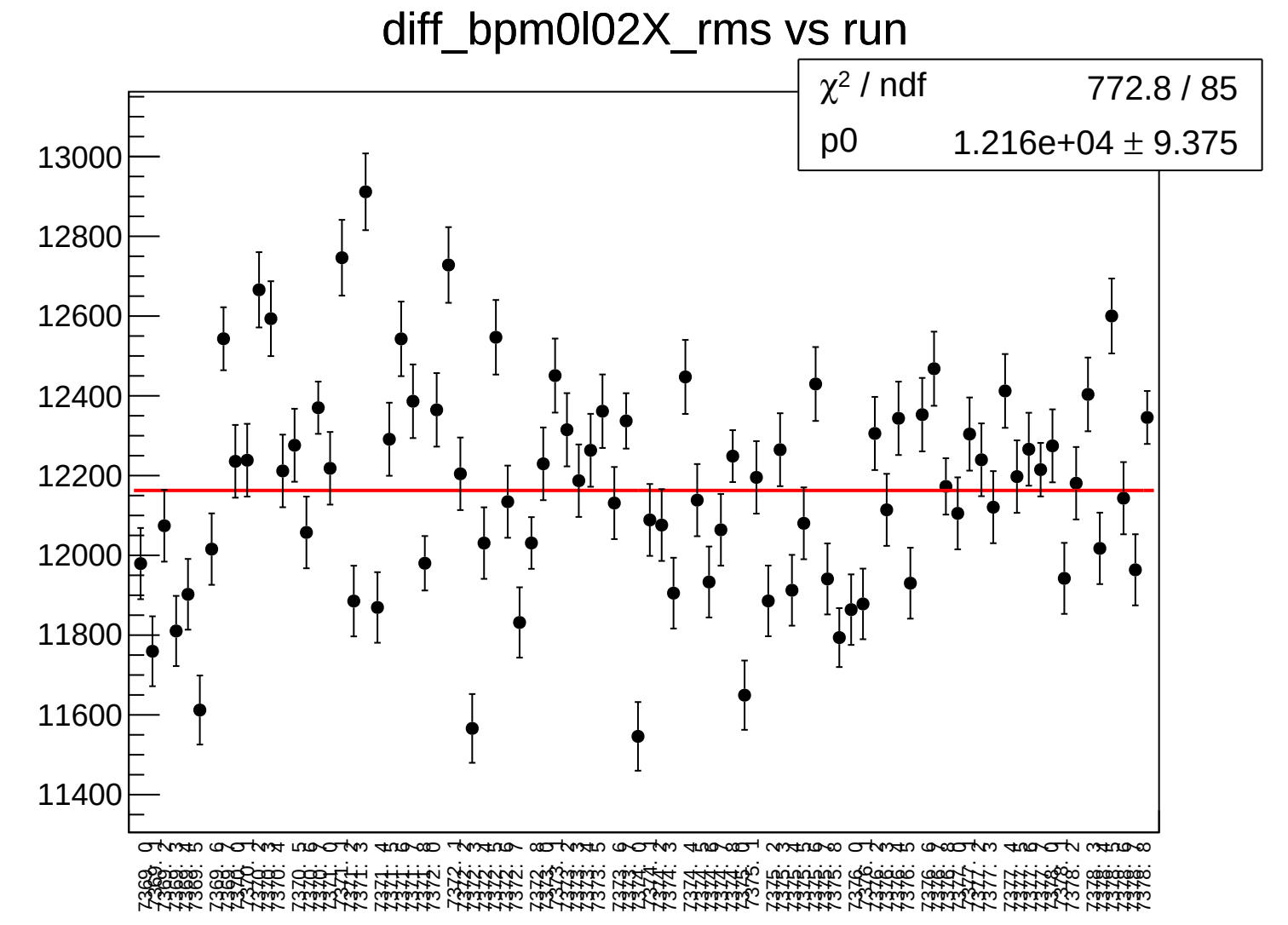

diff_bpm0l01Y_mean vs run
χ^2 / ndf 68.24 / 85
p0 37.28 ± 2.794
pull
Entries 86
Mean −60.53
Std Dev 0

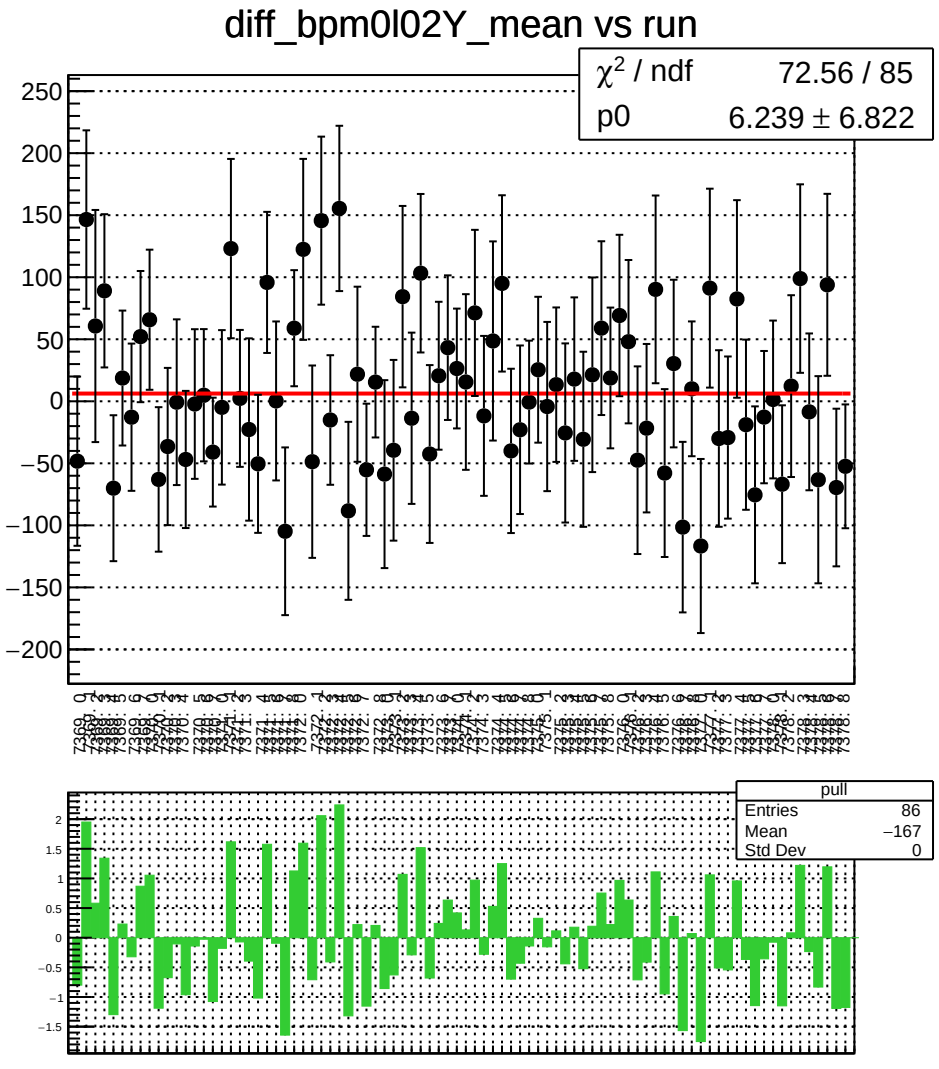

pull1D
Entries 86
Mean 0.01098
Std Dev 0.8907

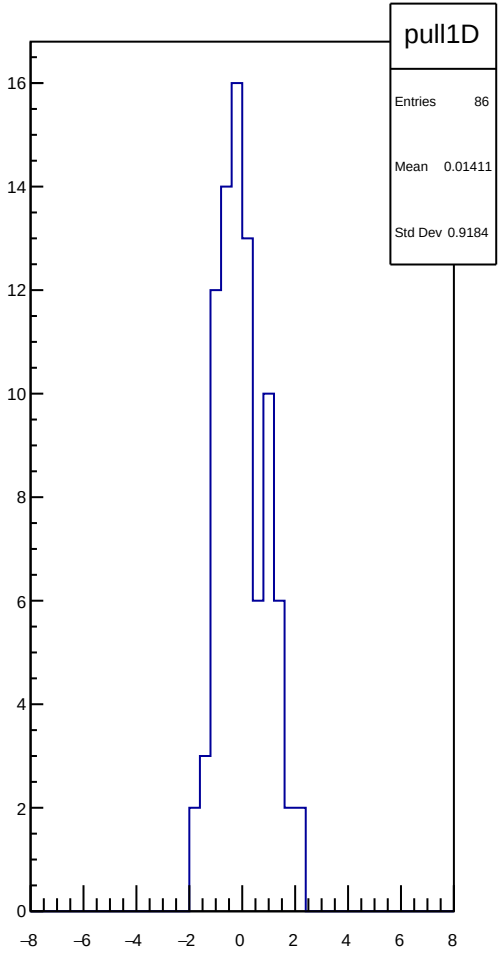

diff_bpm0l01Y_rms vs run
χ² / ndf 1.439e+04 / 85
p0 2553 ± 1.976
3600
3400
3200
3000
2800
2600
2400
2200

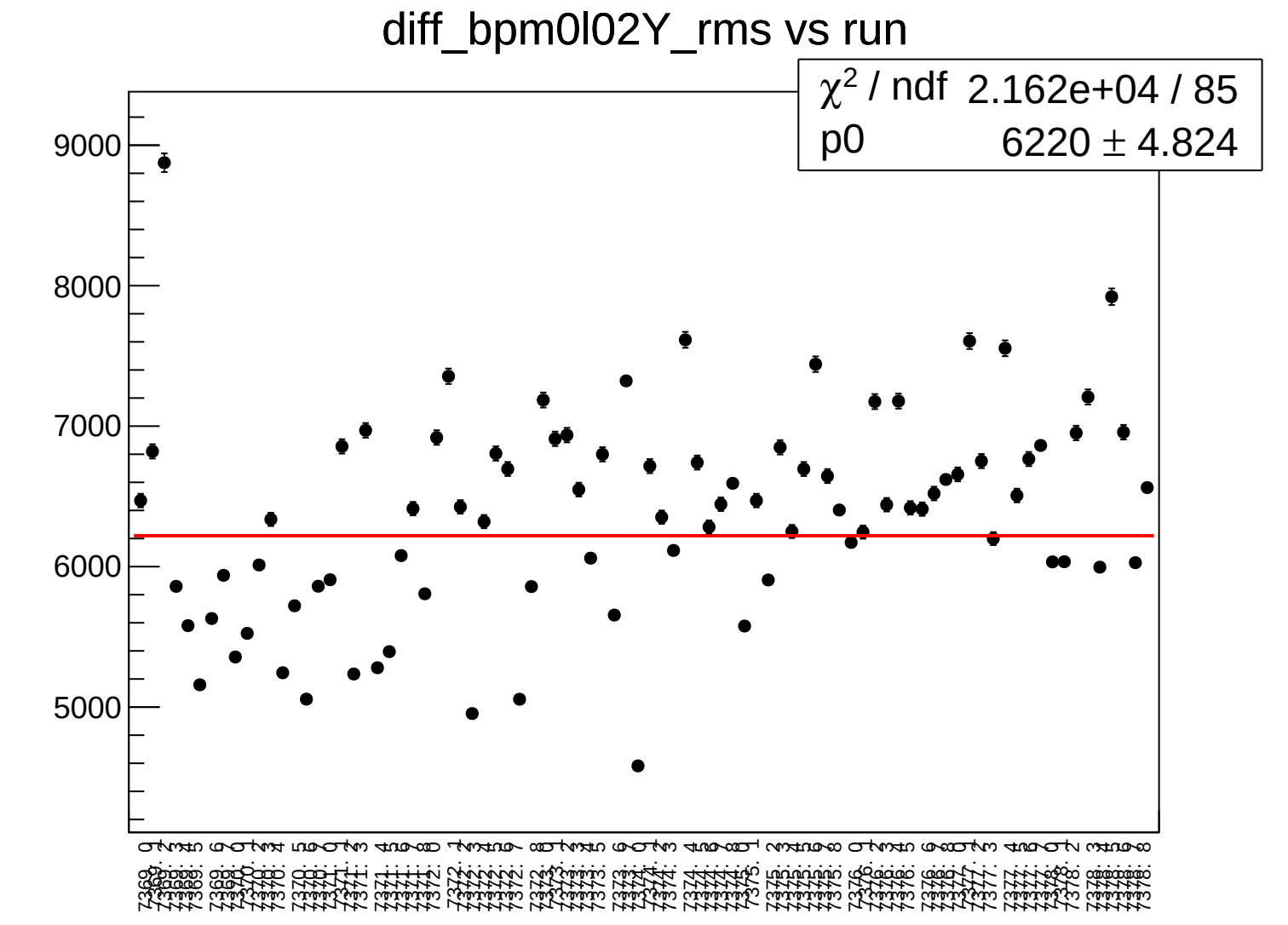

diff_bpm0l02X_mean vs run
χ² / ndf 72.8 / 85
p0 −21.64 ± 13.26
pull
Entries 86
Mean −267.1
Std Dev 0

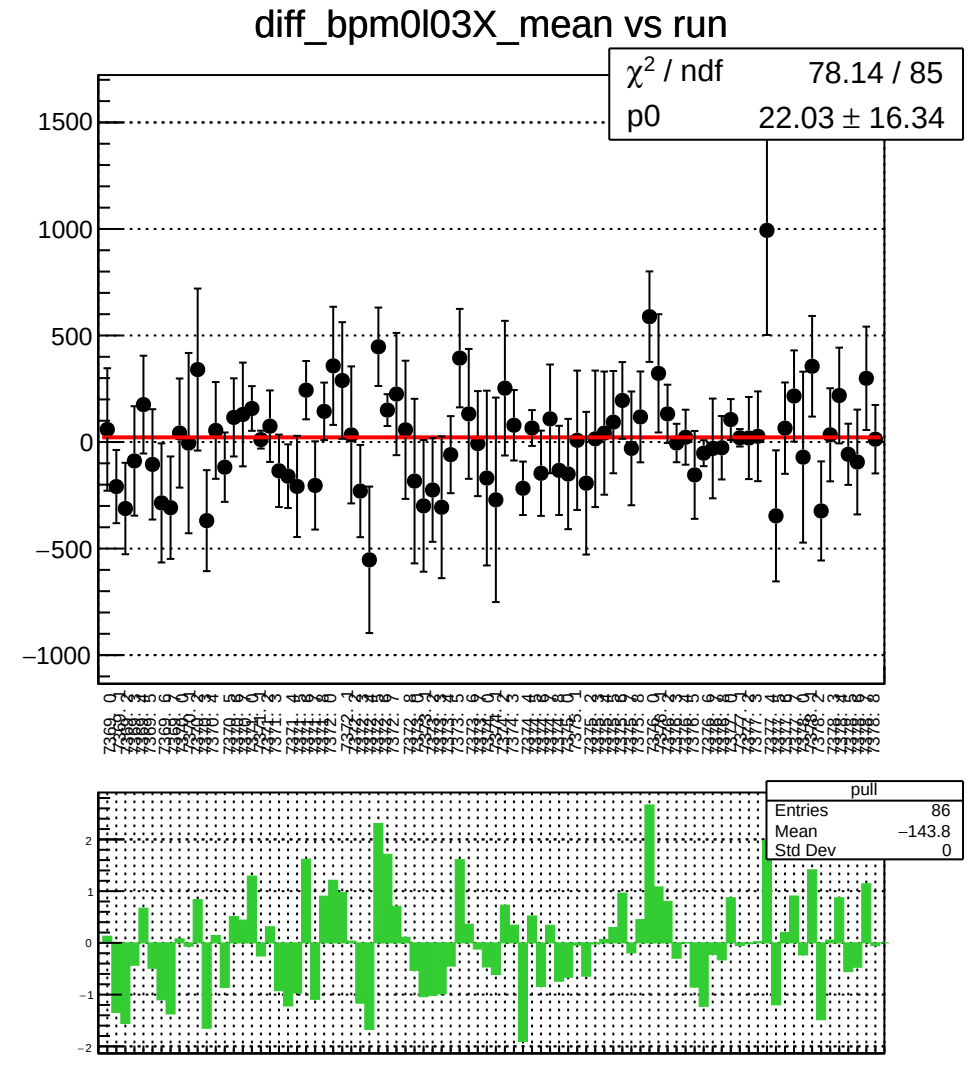

pull1D
Entries 86
Mean 0.008652
Std Dev 0.92

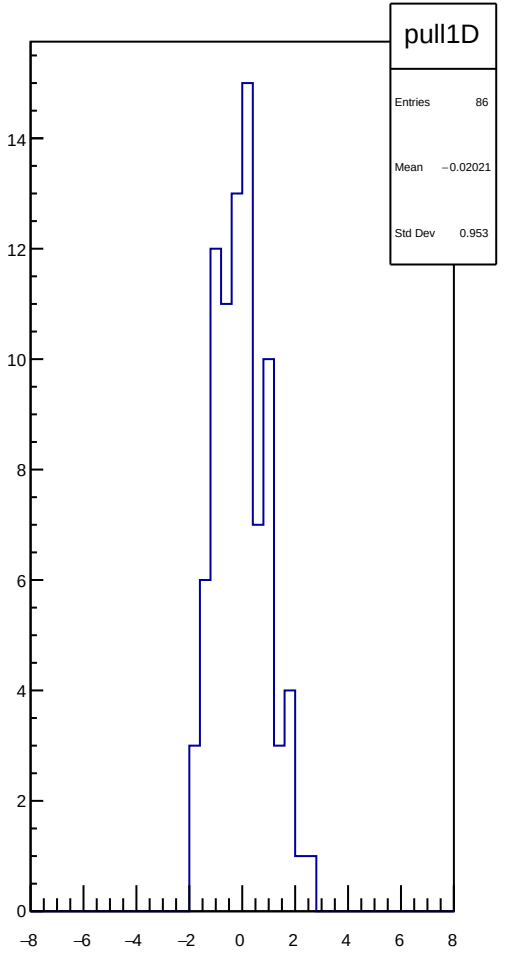

diff_bpm0l02X_rms vs run
χ² / ndf 772.8 / 85
p0 1.216e+04 ± 9.375
13000
12800
12600
12400
12200
12000
11800
11600
11400

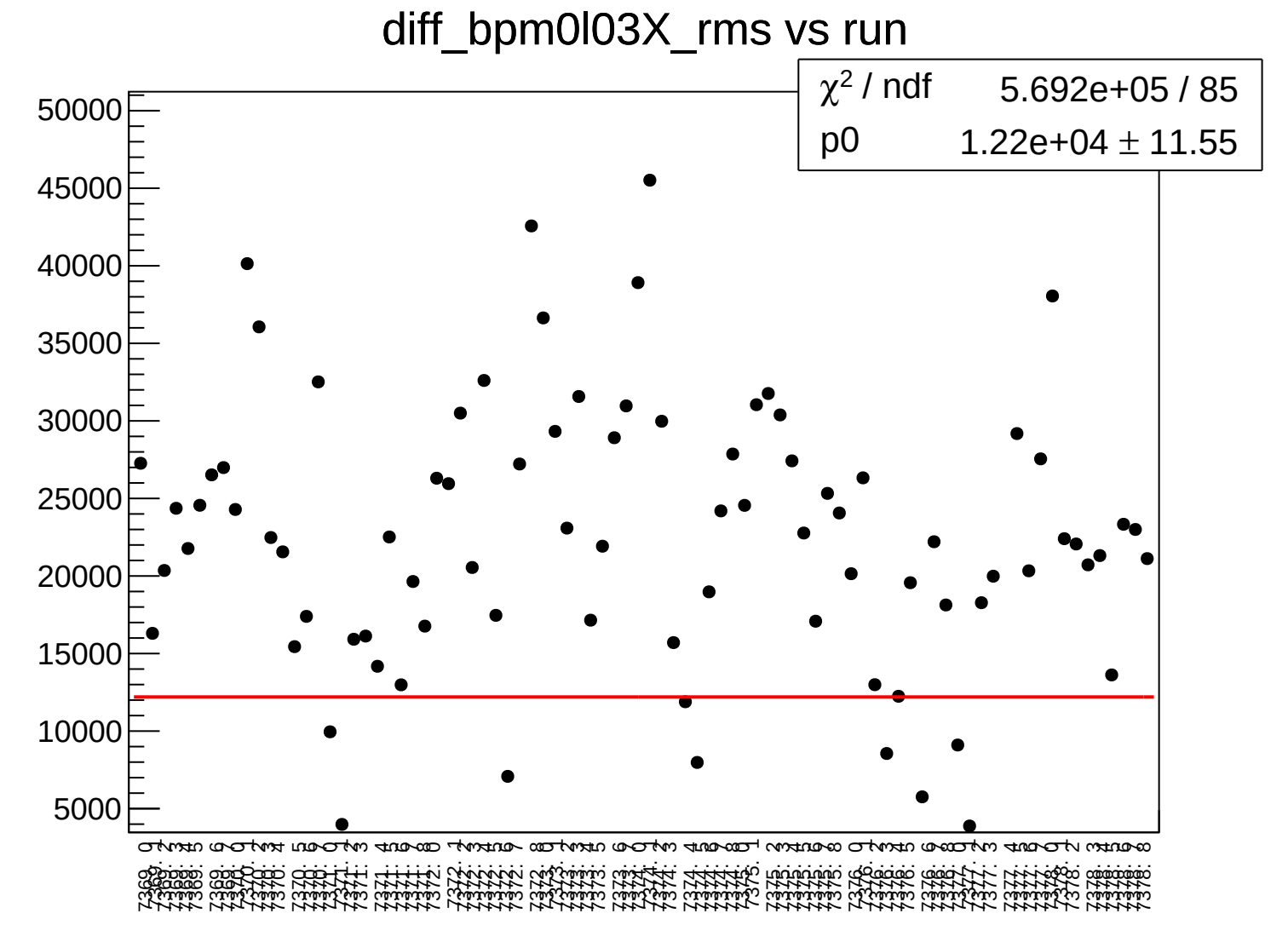

diff_bpm0l02Y_mean vs run
χ² / ndf 72.56 / 85
p0 6.239 ± 6.822
pull
Entries 86
Mean −167
Std Dev 0

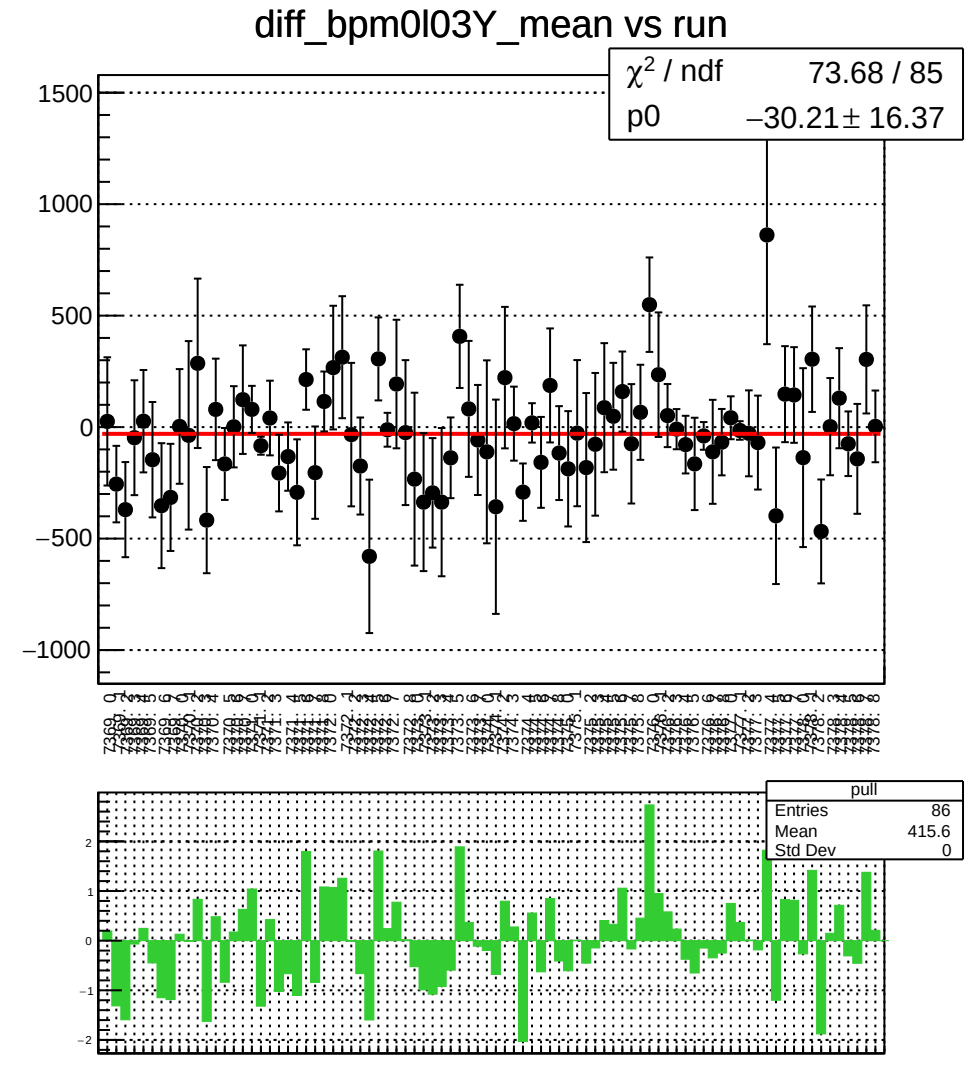

pull1D
Entries 86
Mean 0.01411
Std Dev 0.9184

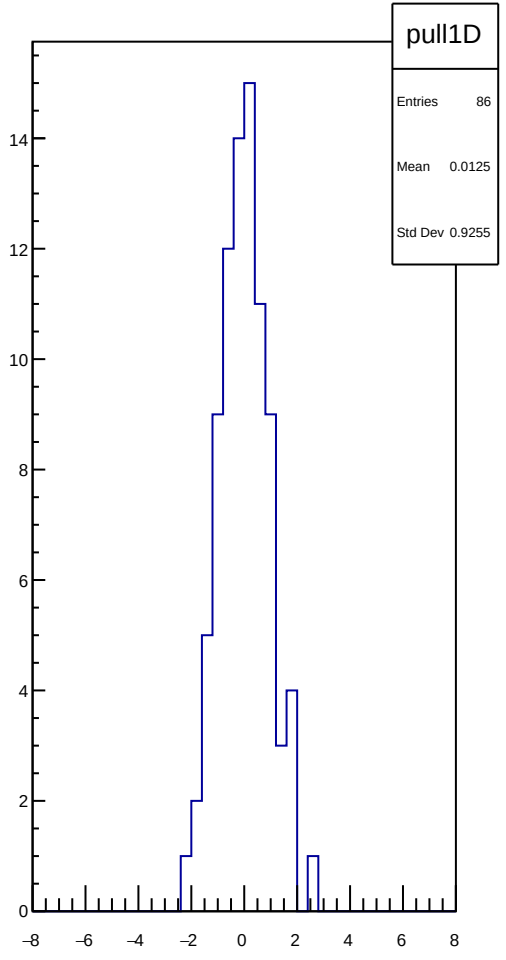

diff_bpm0l02Y_rms vs run
χ^2 / ndf 2.162e+04 / 85
p0 6220 ± 4.824
9000
8000
7000
6000
5000

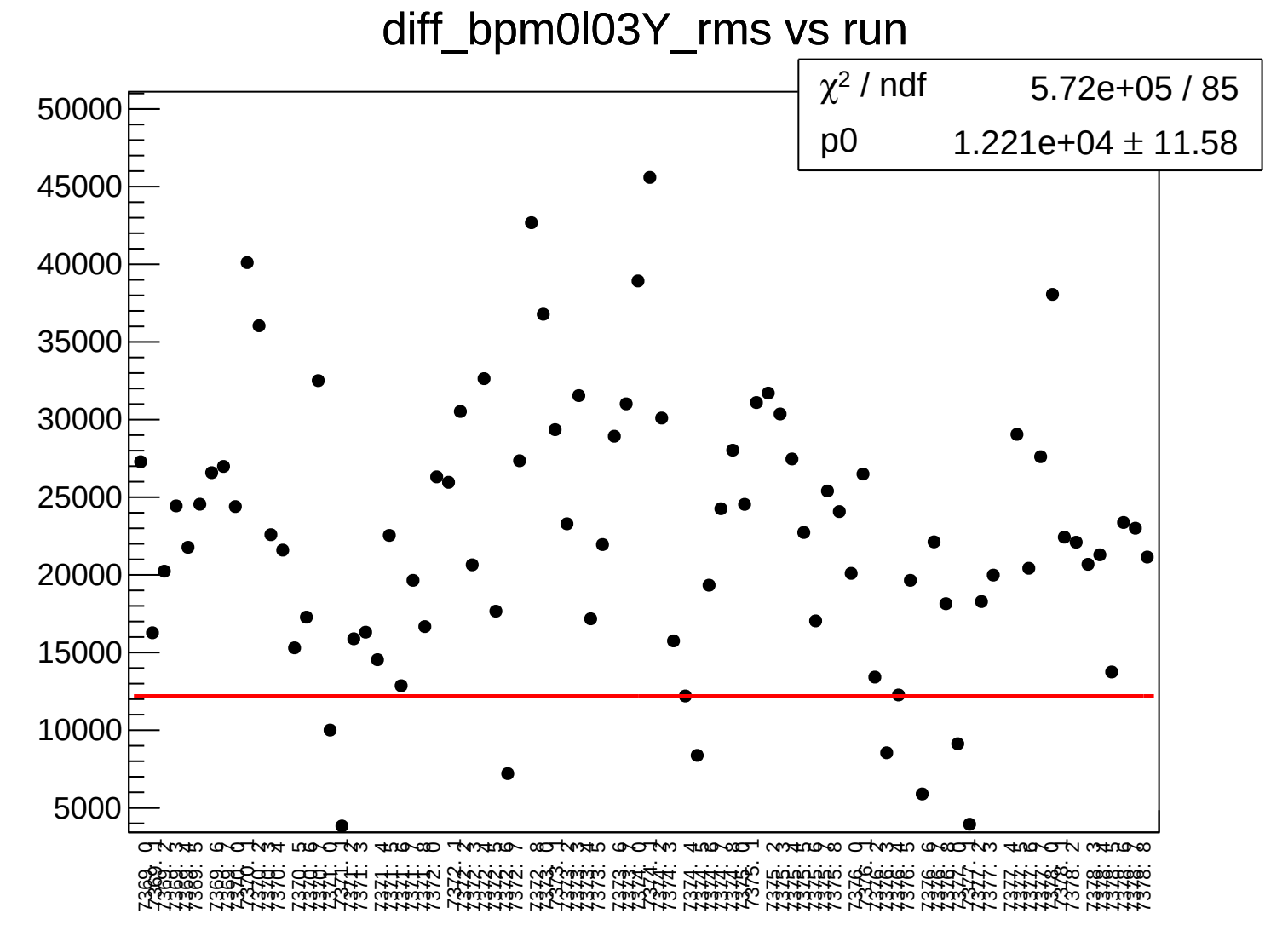

diff_bpm0l03X_mean vs run
χ^2 / ndf 78.14 / 85
p0 22.03 ± 16.34
1500
1000
500
0
−500
−1000
pull
Entries 86
Mean −143.8
Std Dev 0
2
1
0
−1
−2

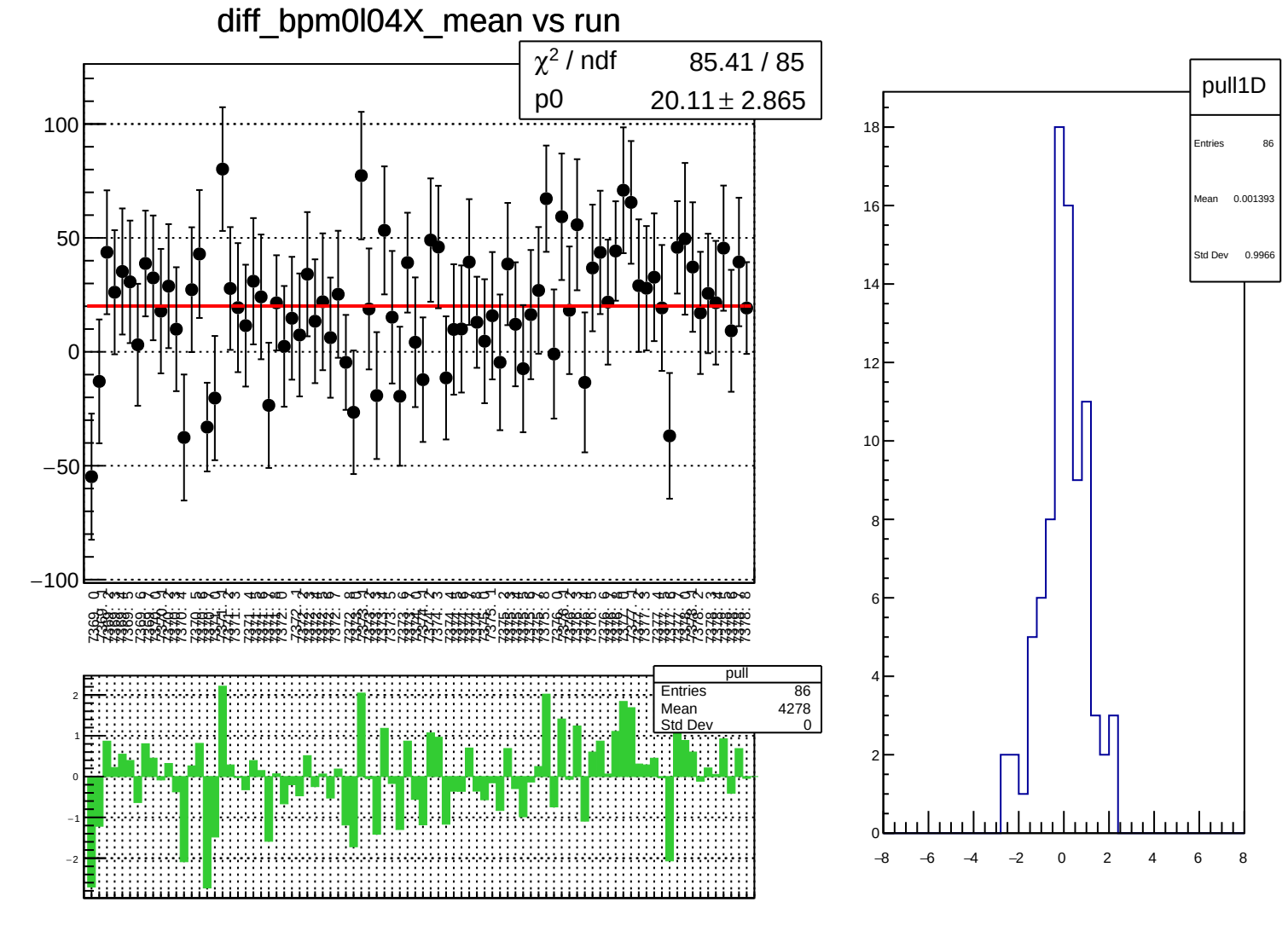

pull1D
Entries 86
Mean −0.02021
Std Dev 0.953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

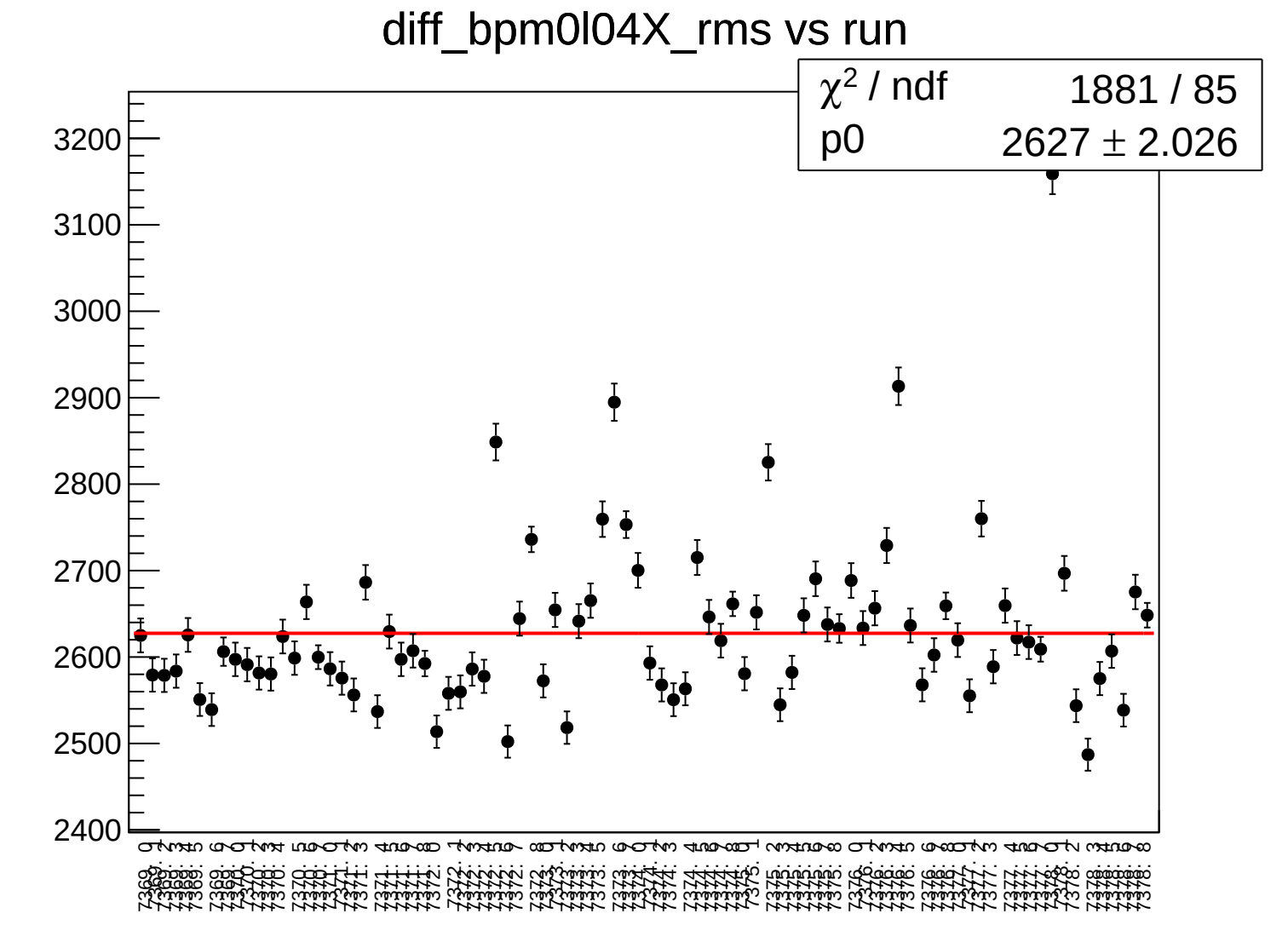

diff_bpm0l03X_rms vs run
χ^2 / ndf 5.692e+05 / 85
p0 1.22e+04 ± 11.55
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000

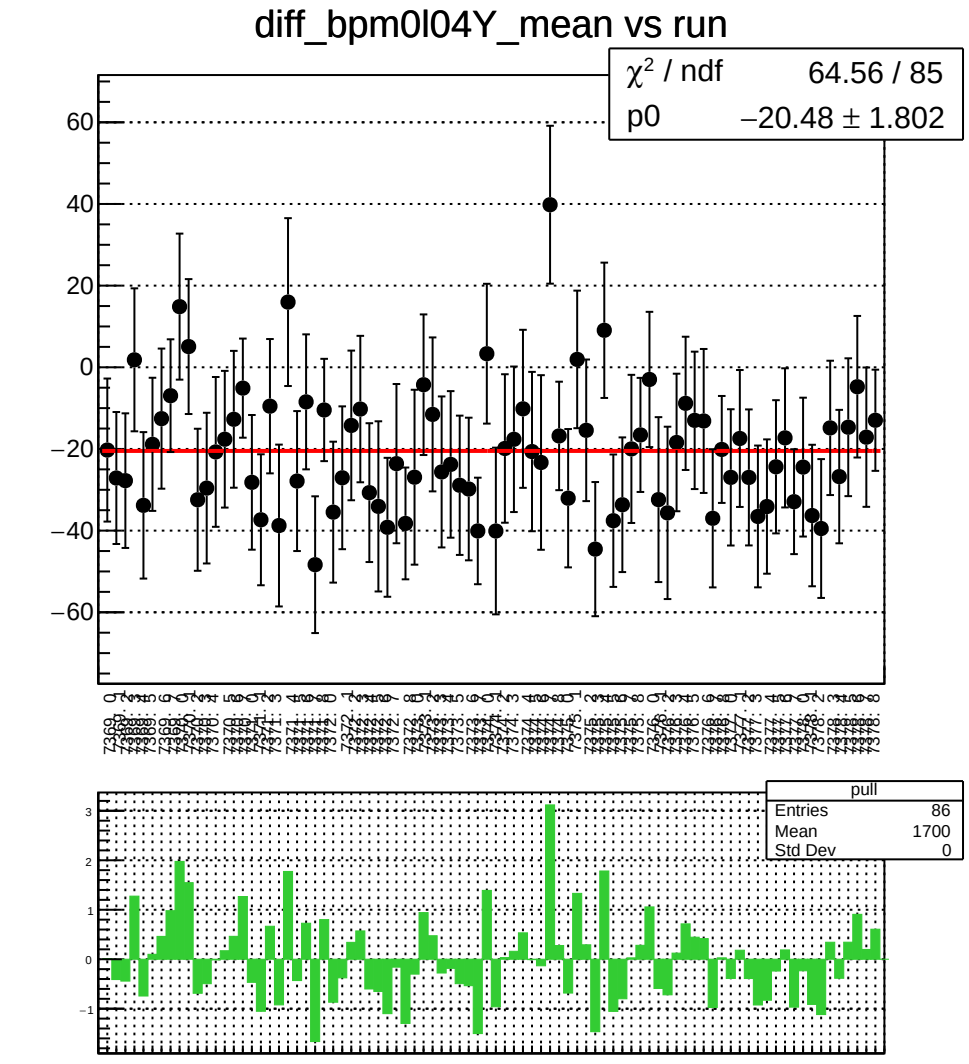

diff_bpm0l03Y_mean vs run
χ² / ndf 73.68 / 85
p0 −30.21± 16.37
pull
Entries 86
Mean 415.6
Std Dev 0

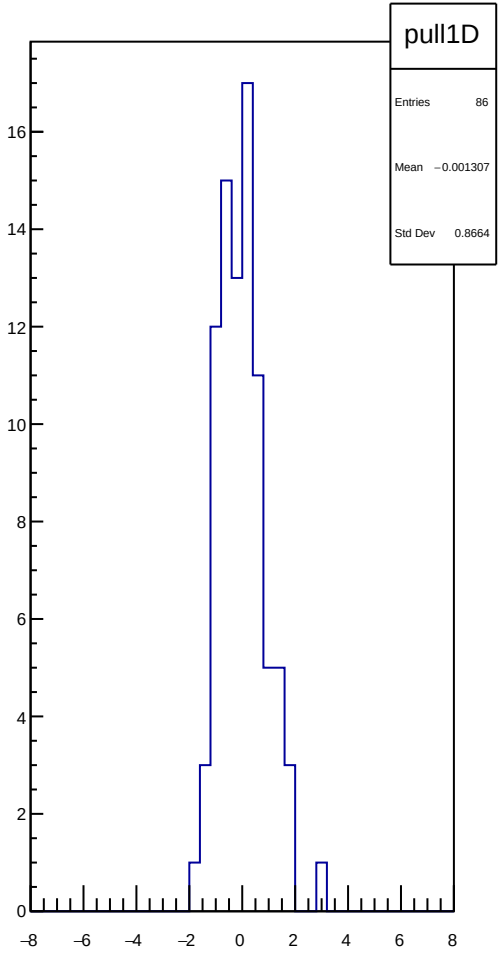

pull1D
Entries 86
Mean 0.0125
Std Dev 0.9255

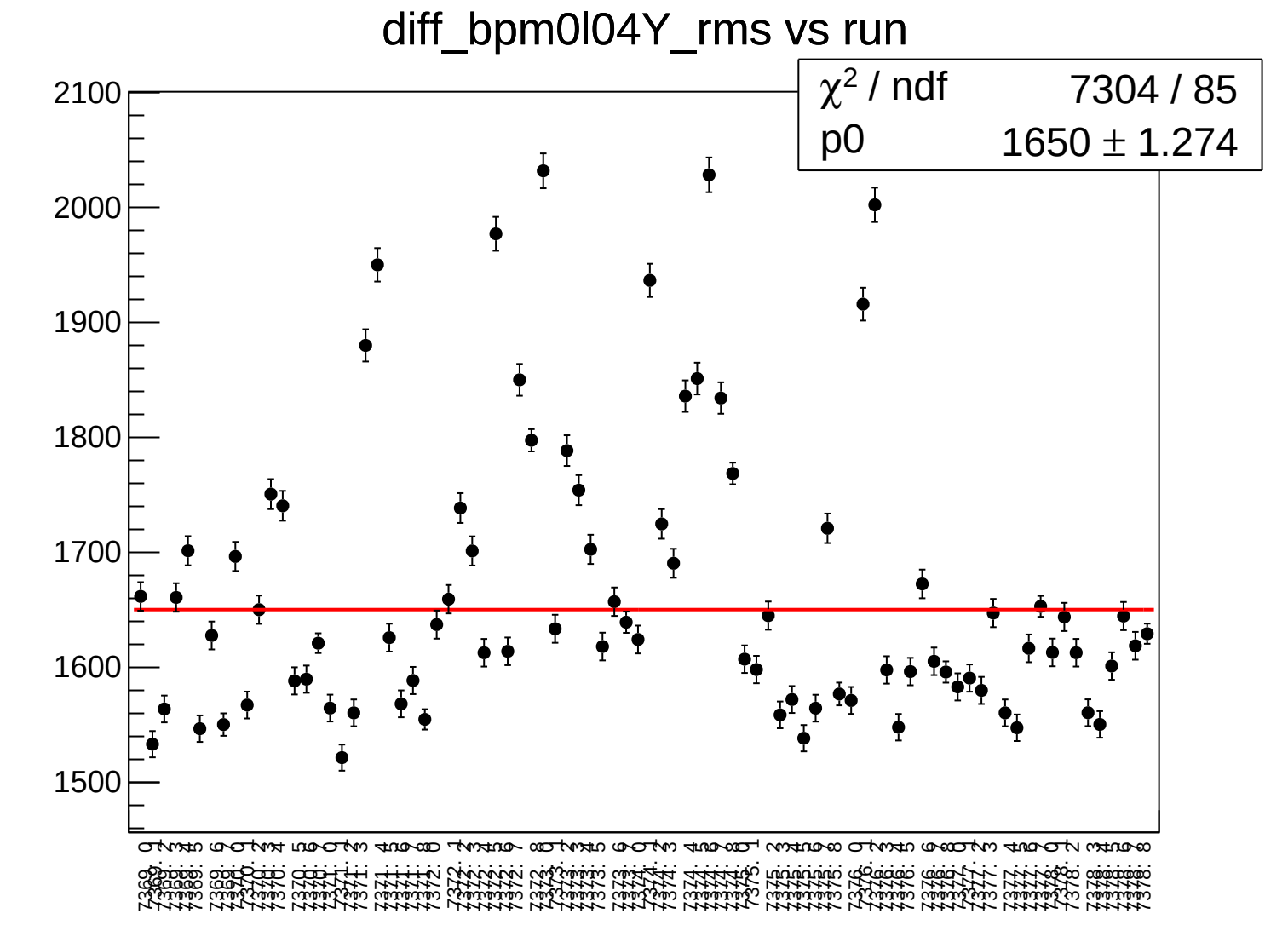

diff_bpm0l03Y_rms vs run
χ^2 / ndf 5.72e+05 / 85
p0 1.221e+04 ± 11.58
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000

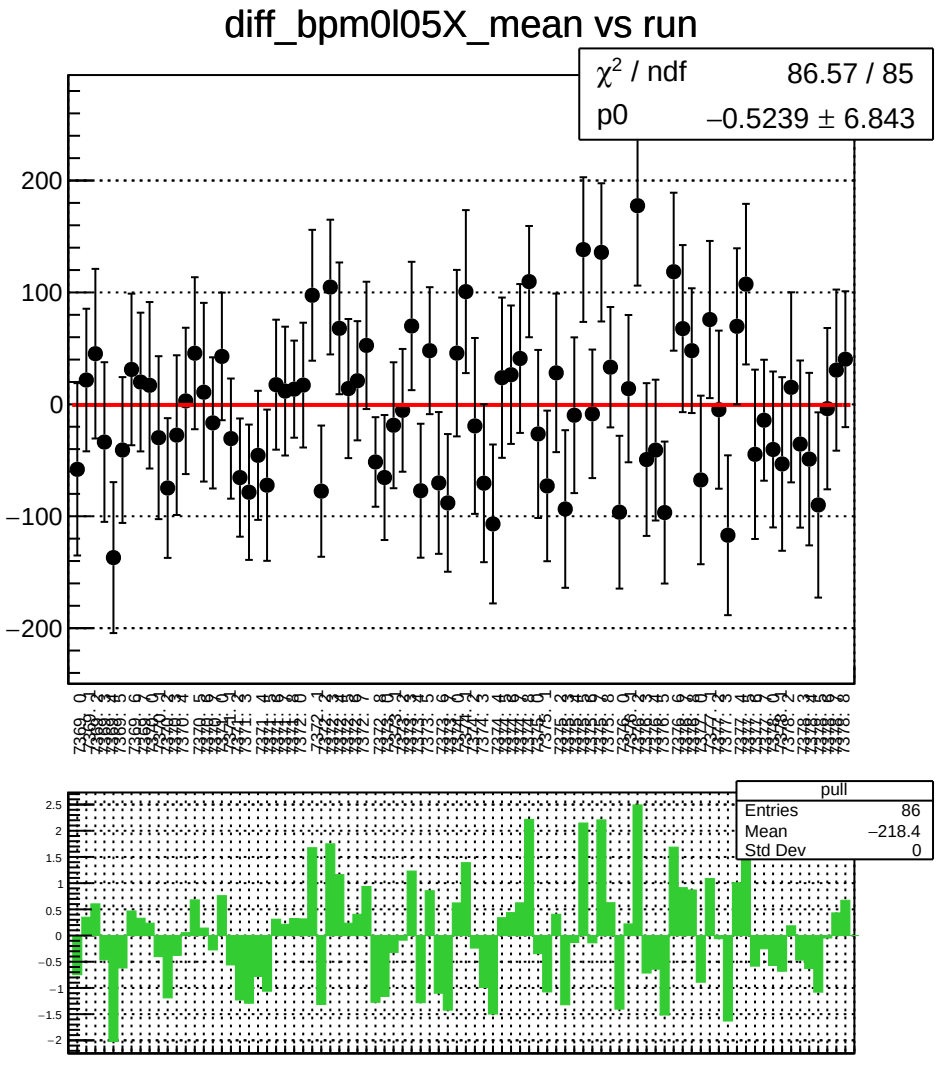

diff_bpm0l04X_mean vs run
χ² / ndf 85.41 / 85
p0 20.11 ± 2.865
pull
Entries 86
Mean 4278
Std Dev 0
pull1D
Entries 86
Mean 0.001393
Std Dev 0.9966

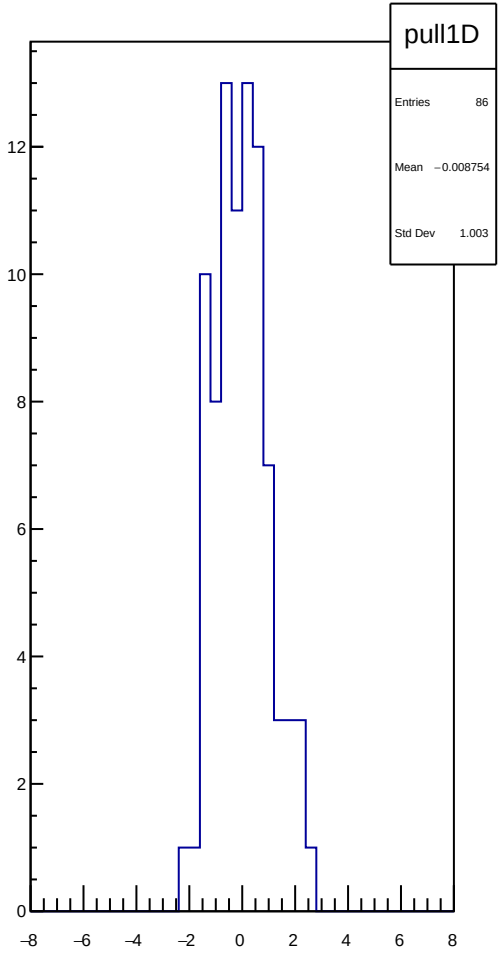

diff_bpm0l04X_rms vs run
χ² / ndf 1881 / 85
p0 2627 ± 2.026
3200
3100
3000
2900
2800
2700
2600
2500
2400

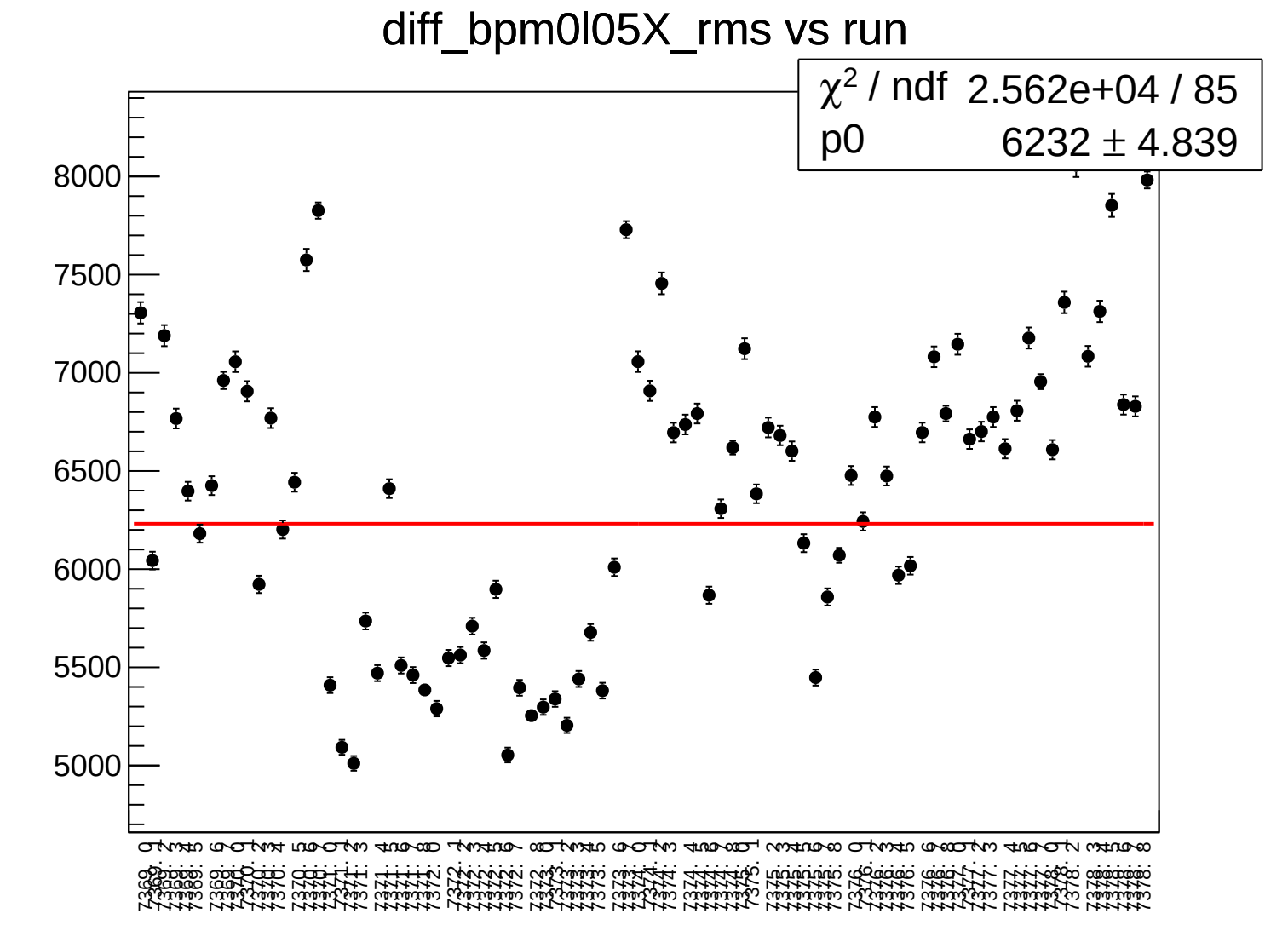

diff_bpm0l04Y_mean vs run
χ² / ndf 64.56 / 85
p0 −20.48 ± 1.802
pull
Entries 86
Mean 1700
Std Dev 0

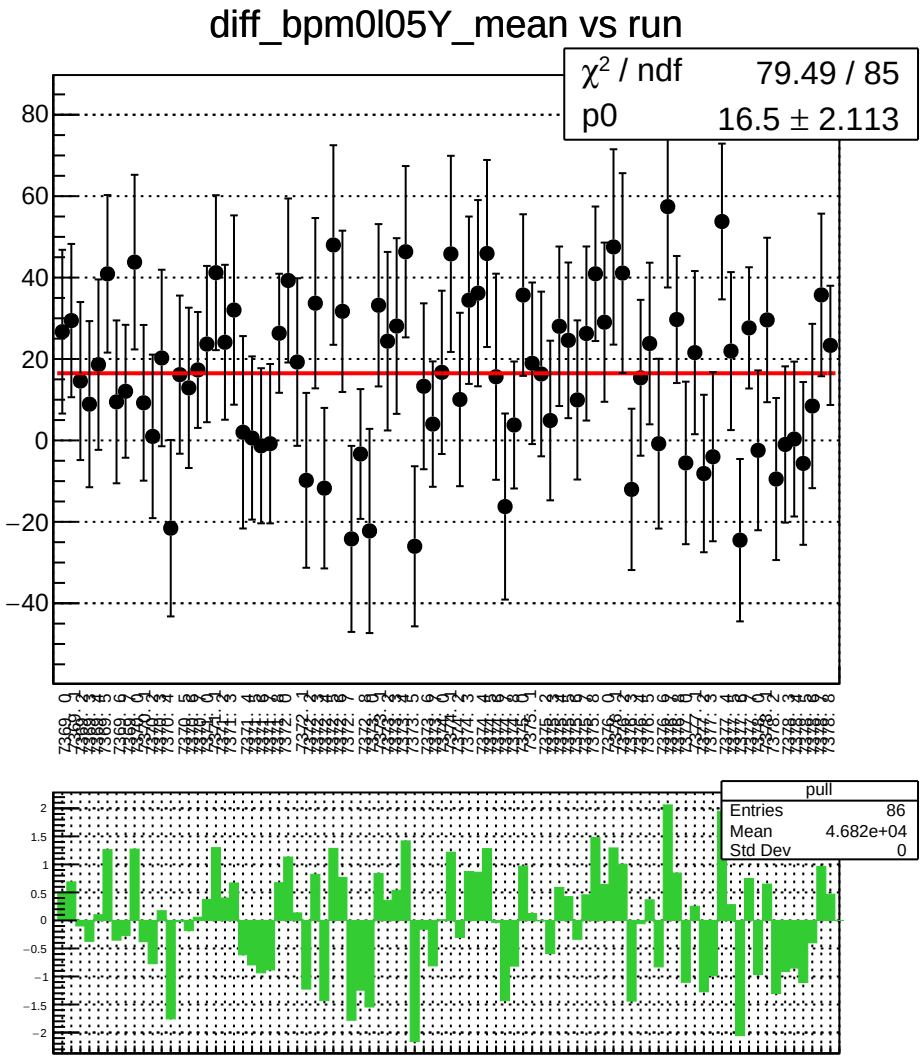

pull1D
Entries 86
Mean −0.001307
Std Dev 0.8664

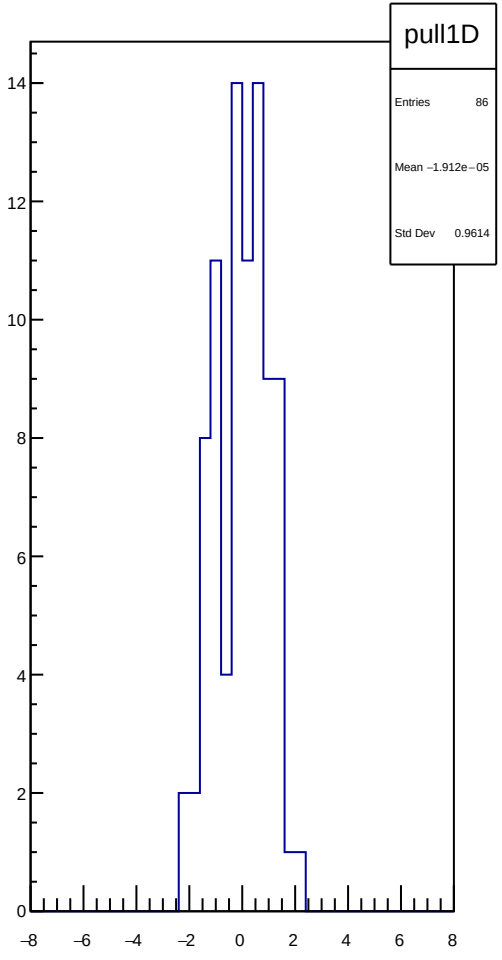

diff_bpm0l04Y_rms vs run
χ² / ndf 7304 / 85
p0 1650 ± 1.274
2100
2000
1900
1800
1700
1600
1500

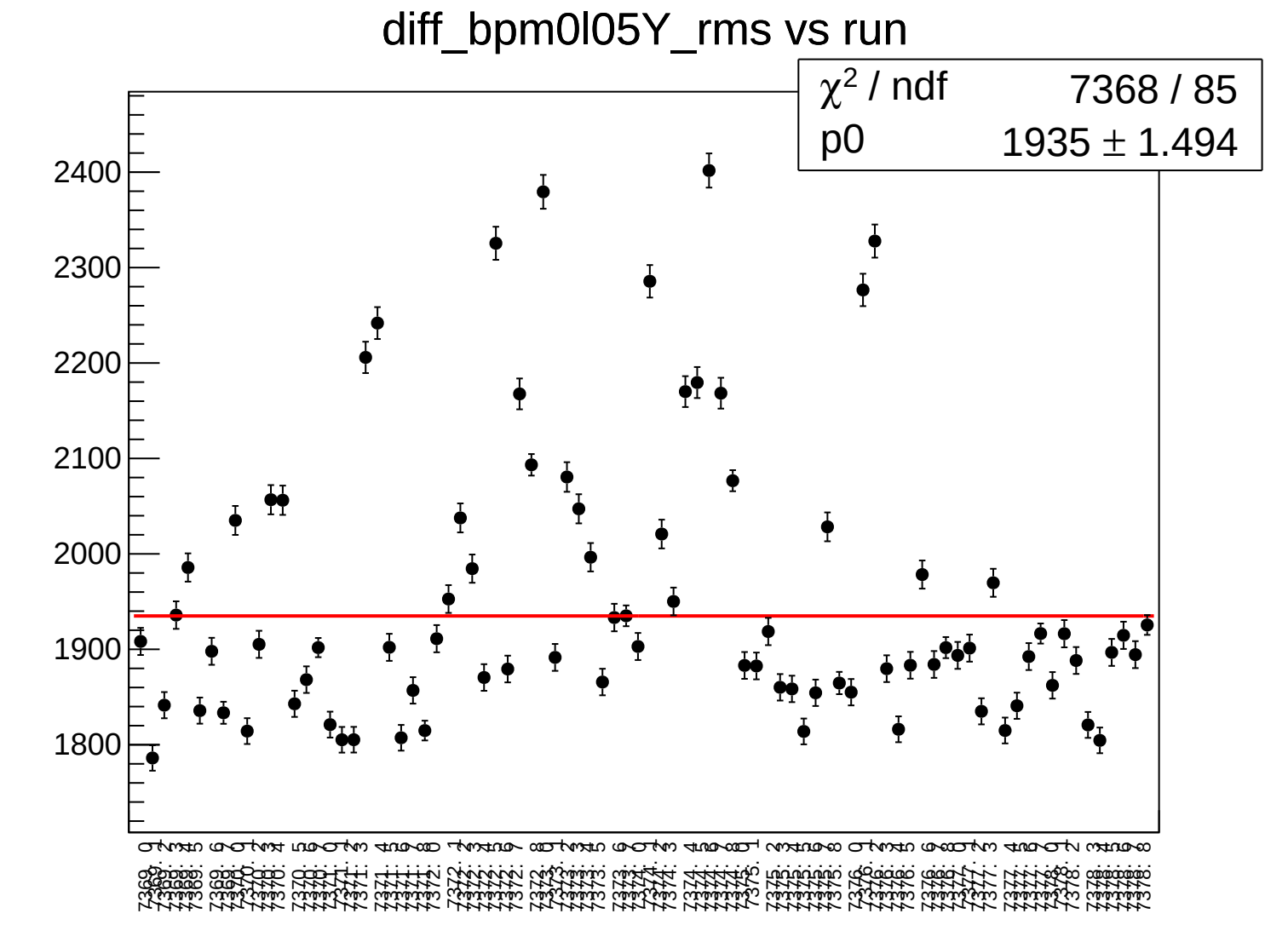

diff_bpm0l05X_mean vs run
χ² / ndf 86.57 / 85
p0 −0.5239 ± 6.843
200
100
0
−100
−200
pull
Entries 86
Mean −218.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

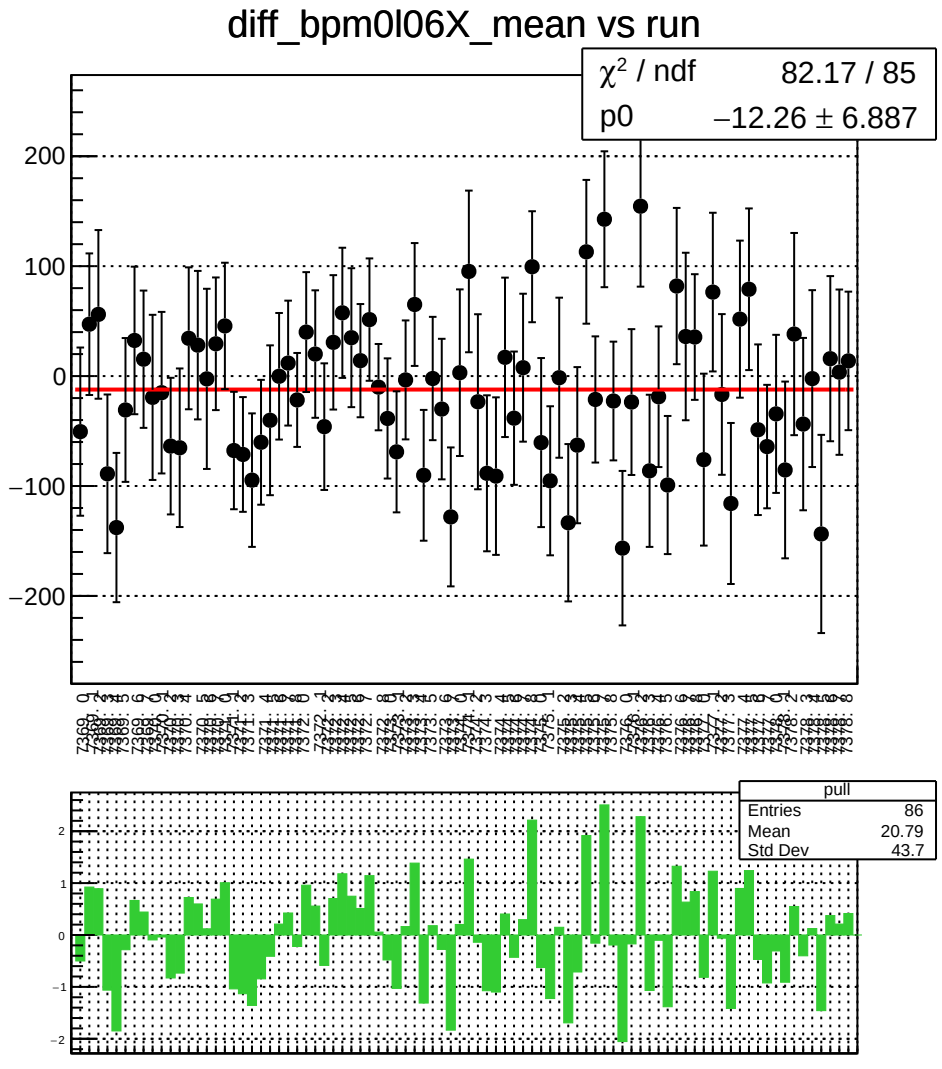

pull1D
Entries 86
Mean −0.008754
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

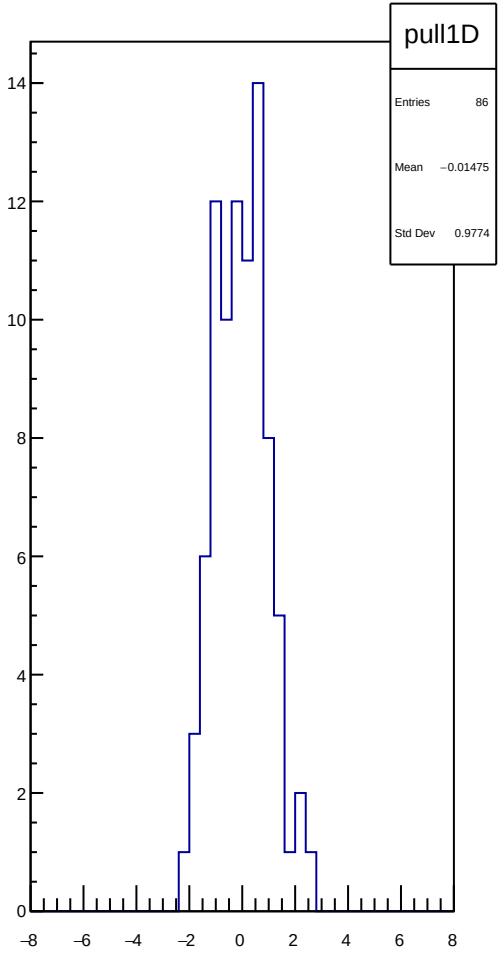

diff_bpm0l05X_rms vs run
χ² / ndf 2.562e+04 / 85
p0 6232 ± 4.839
8000
7500
7000
6500
6000
5500
5000

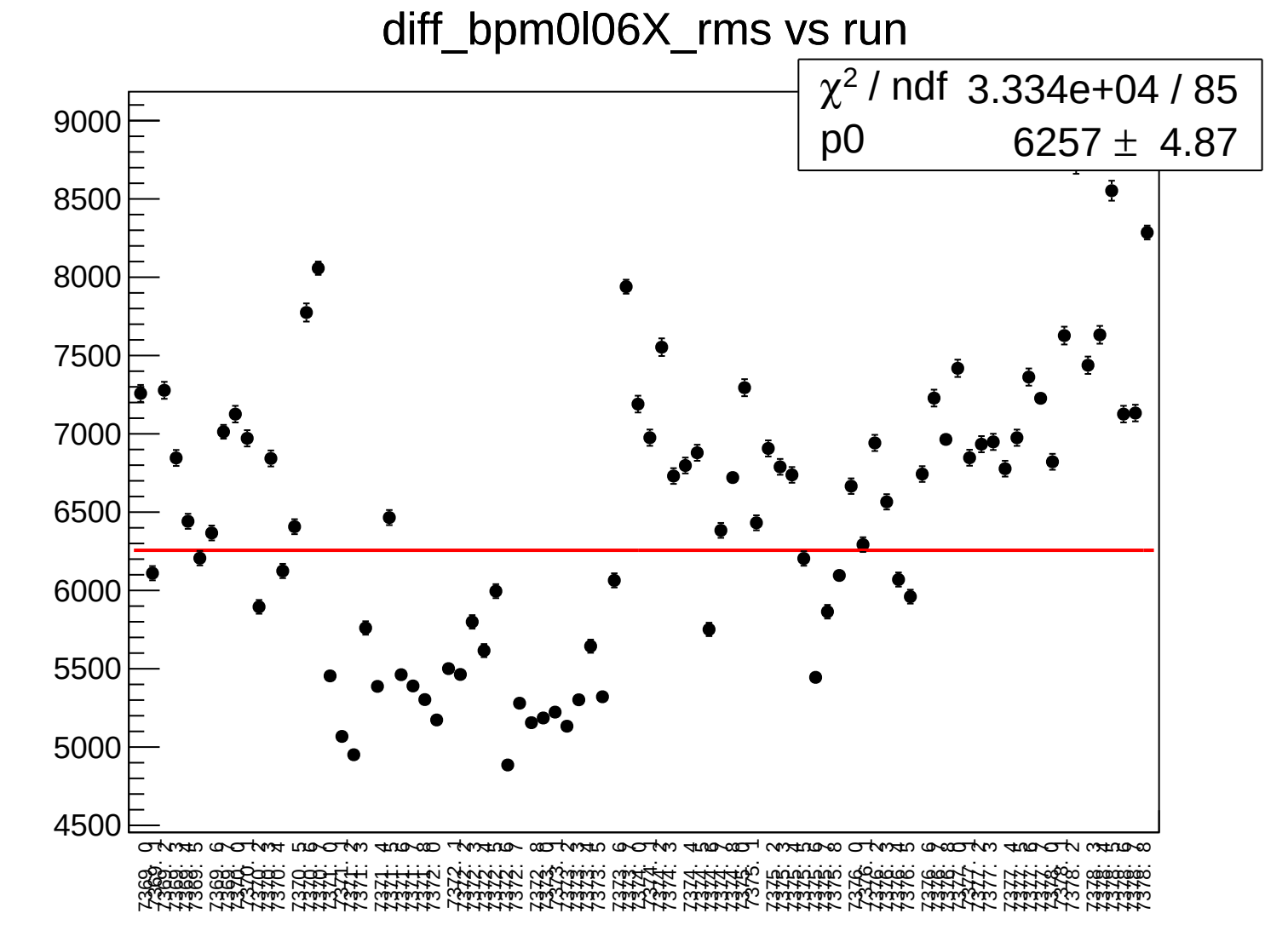

diff_bpm0l05Y_mean vs run
χ² / ndf 79.49 / 85
p0 16.5 ± 2.113
pull
Entries 86
Mean 4.682e+04
Std Dev 0

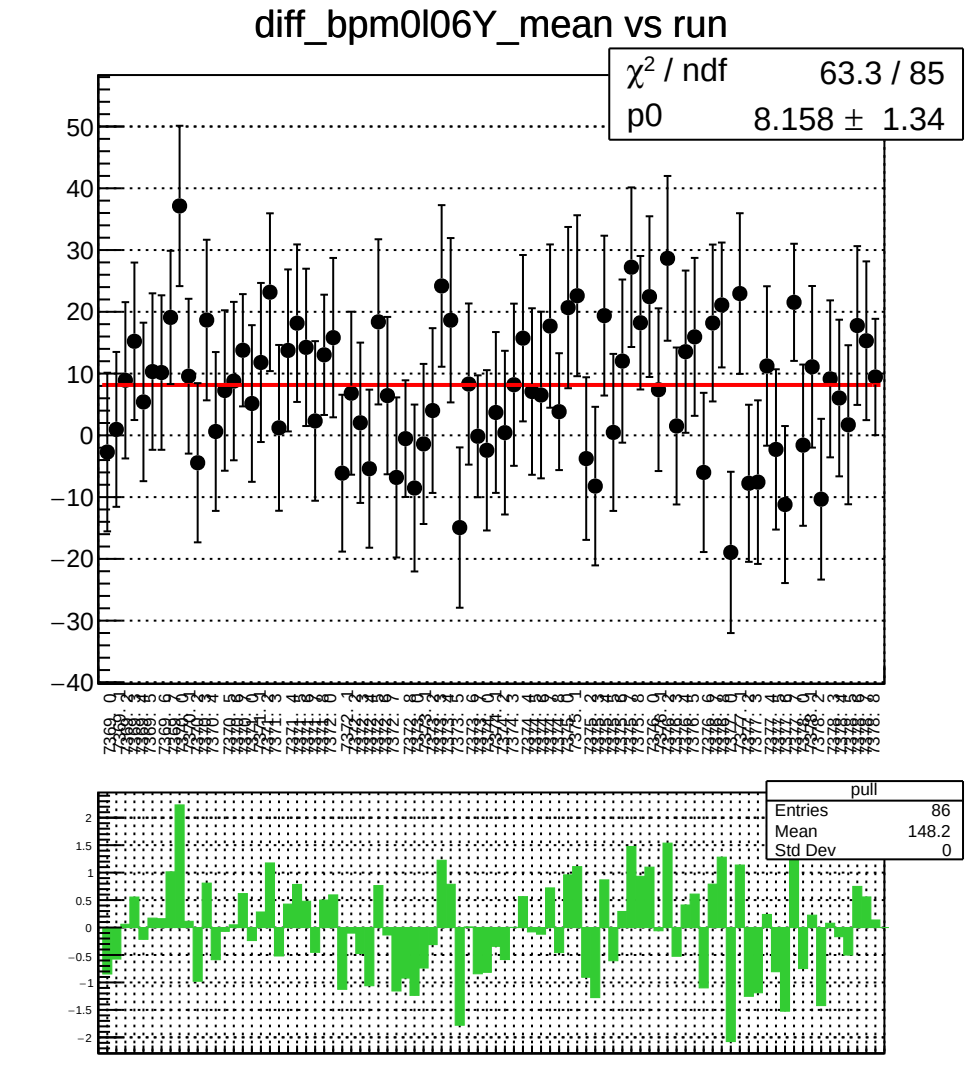

pull1D
Entries 86
Mean −1.912e−05
Std Dev 0.9614

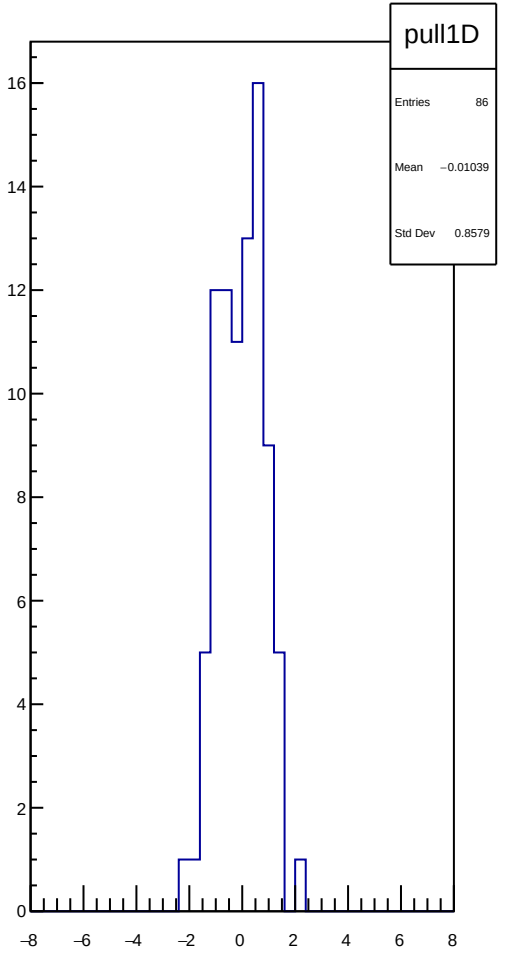

diff_bpm0l05Y_rms vs run
χ^2 / ndf 7368 / 85
p0 1935 ± 1.494
2400
2300
2200
2100
2000
1900
1800

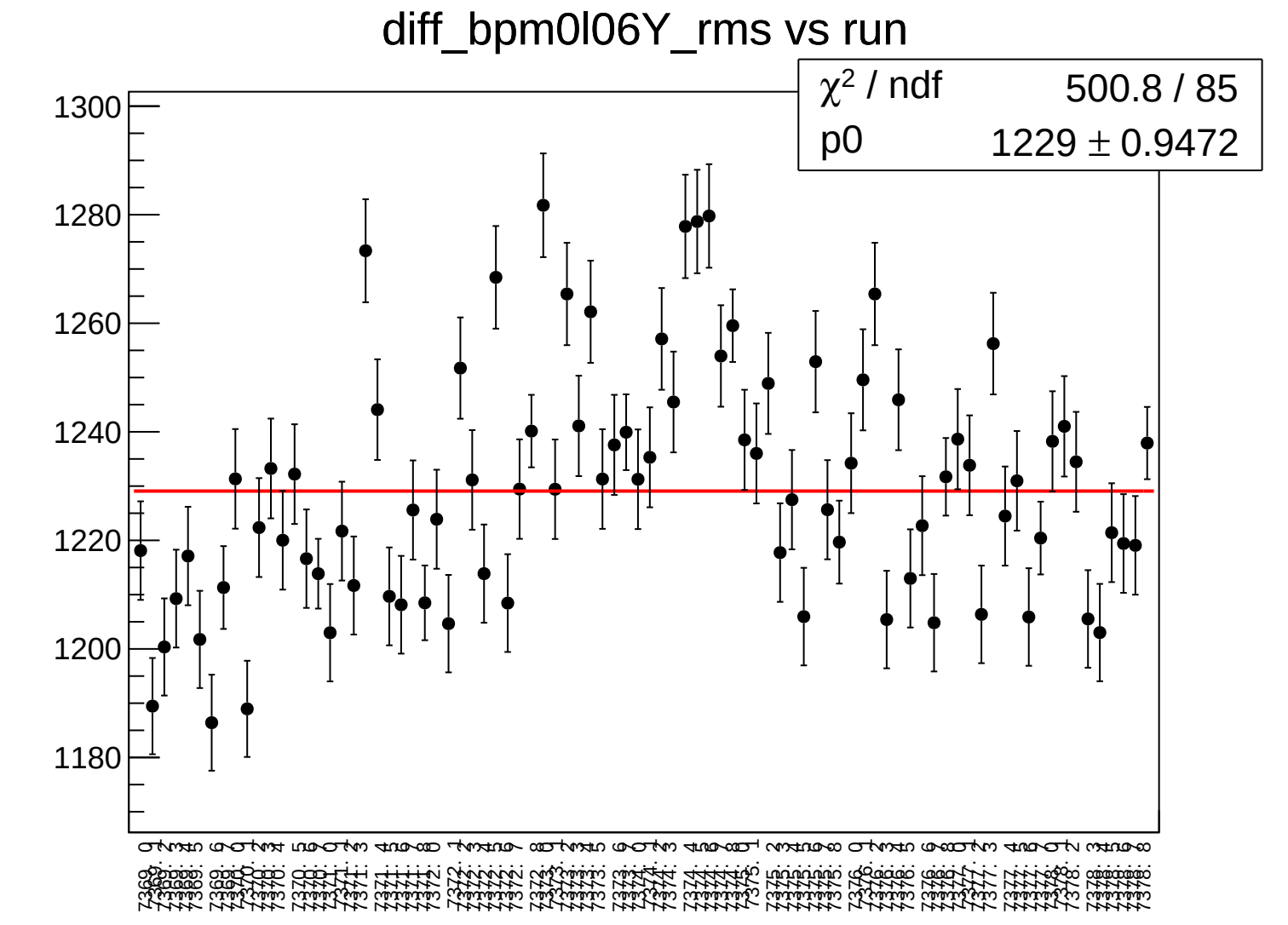

diff_bpm0l06X_mean vs run
χ^2 / ndf 82.17 / 85
p0 −12.26 ± 6.887
200
100
0
−100
−200
pull
Entries 86
Mean 20.79
Std Dev 43.7
2
1
0
−1
−2

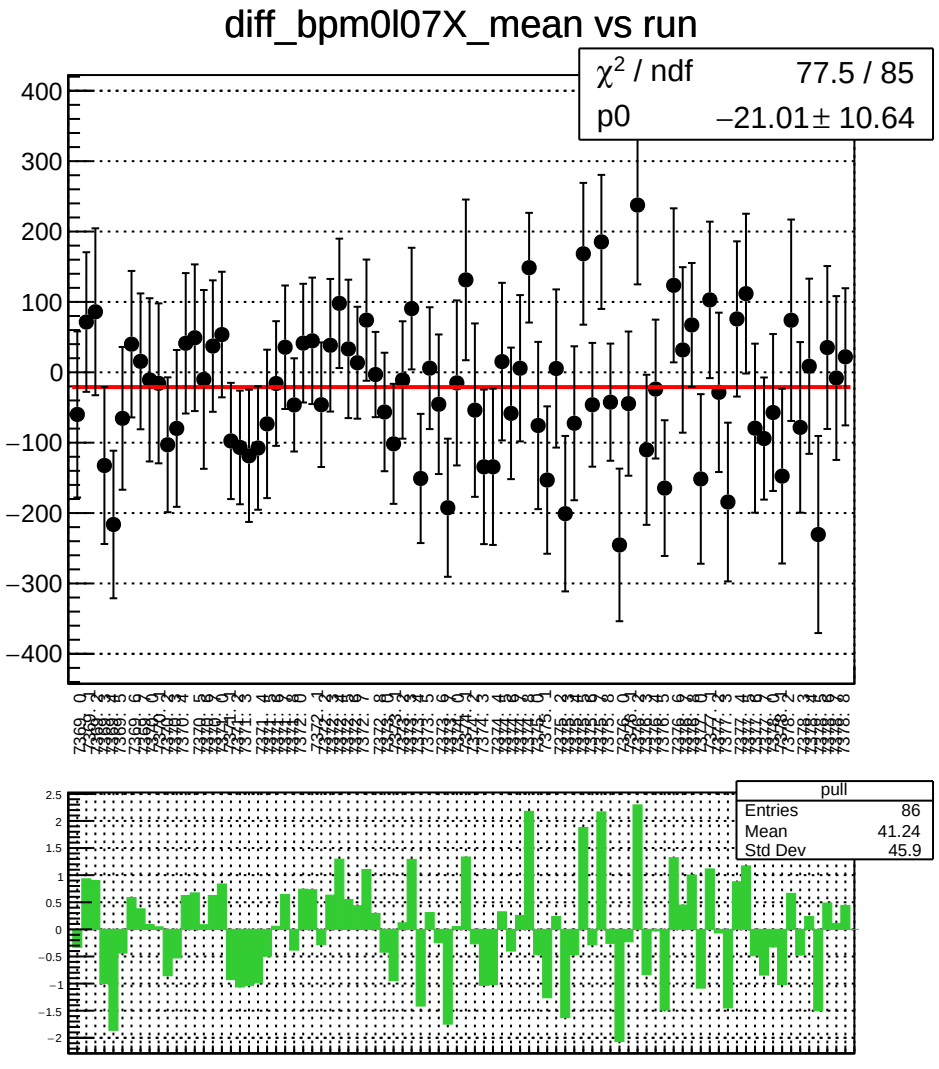

pull1D
Entries 86
Mean −0.01475
Std Dev 0.9774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

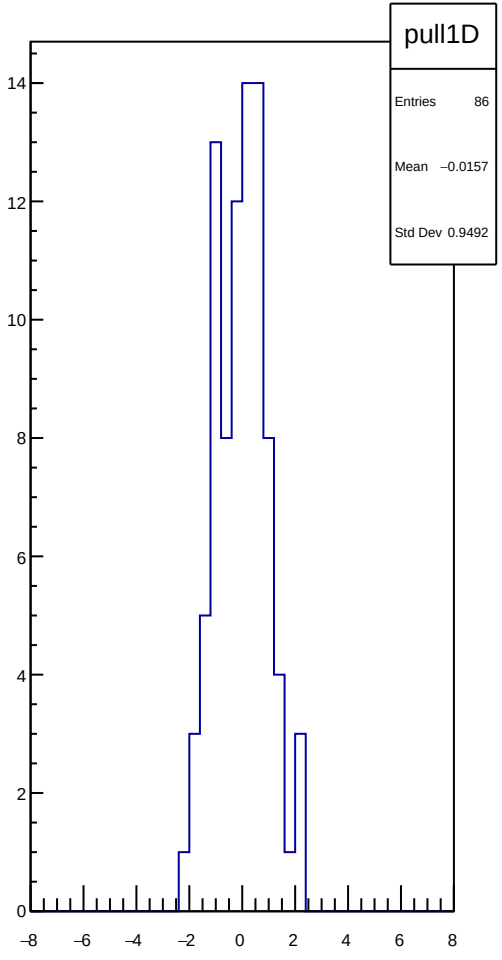

diff_bpm0l06X_rms vs run
χ² / ndf 3.334e+04 / 85
p0 6257 ± 4.87
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

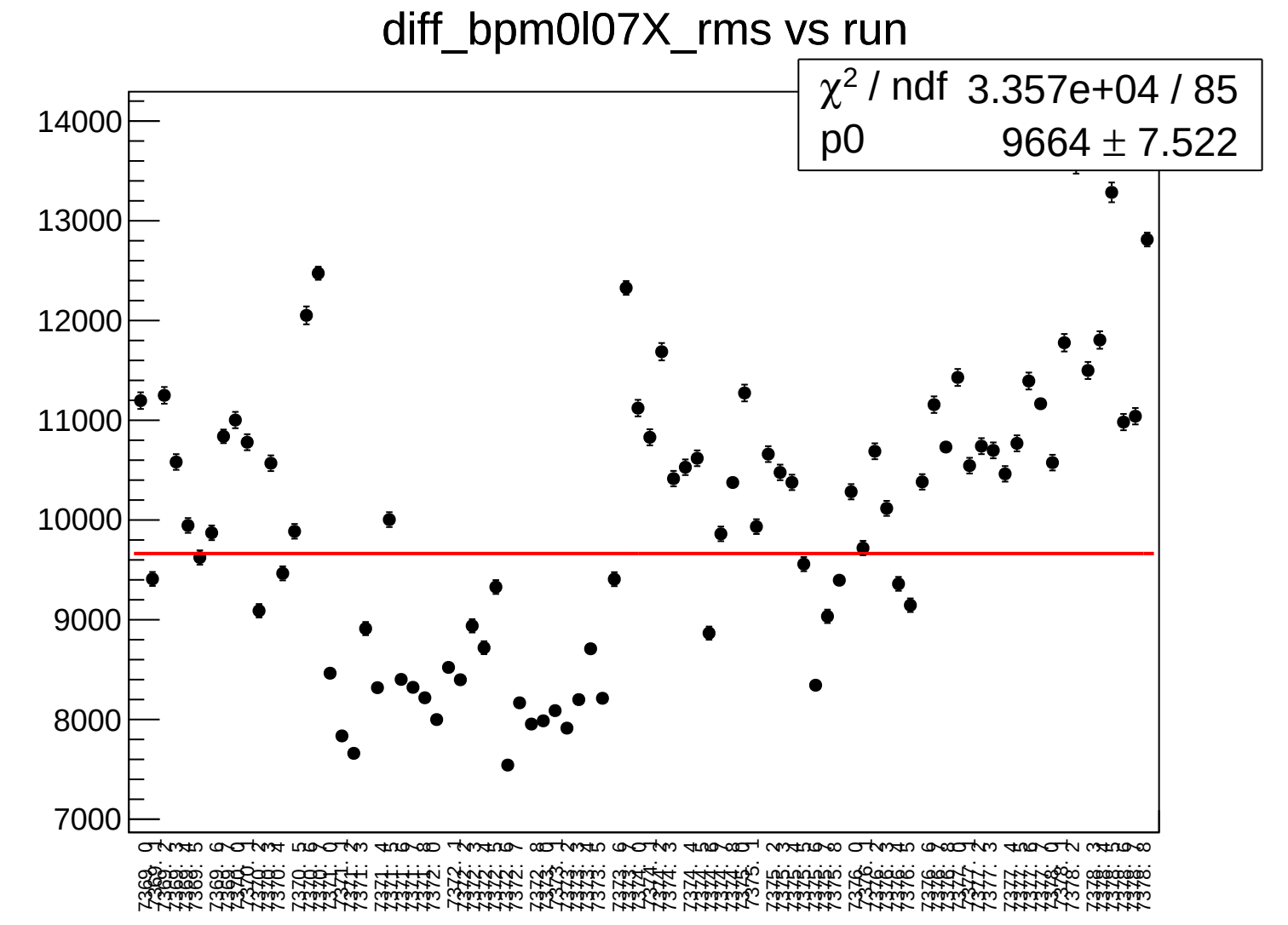

diff_bpm0l06Y_mean vs run
χ² / ndf 63.3 / 85
p0 8.158 ± 1.34
pull
Entries 86
Mean 148.2
Std Dev 0

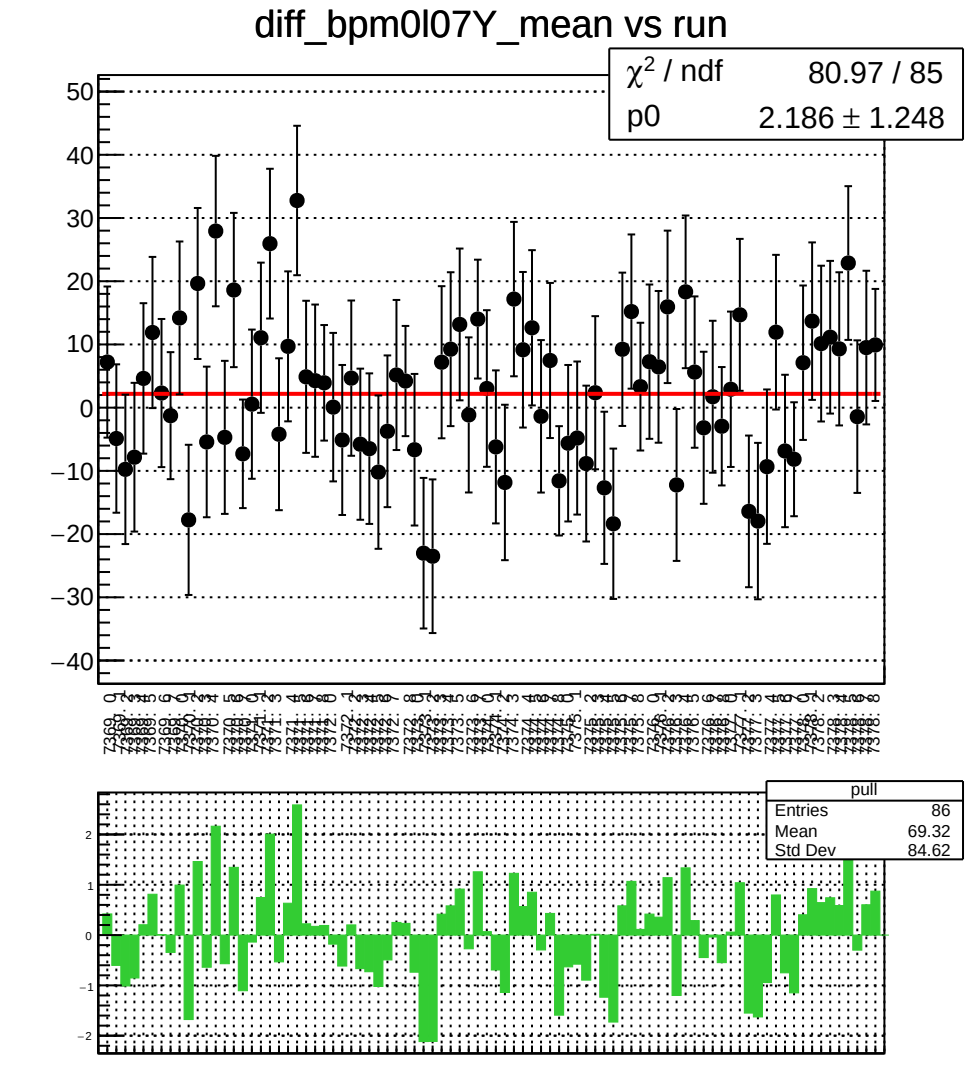

pull1D
Entries 86
Mean −0.01039
Std Dev 0.8579

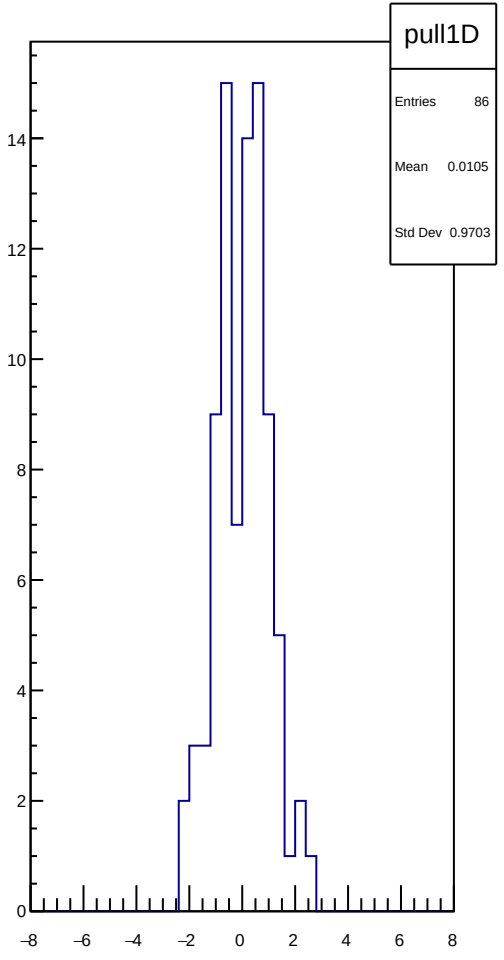

diff_bpm0l06Y_rms vs run
χ² / ndf 500.8 / 85
p0 1229 ± 0.9472
1300
1280
1260
1240
1220
1200
1180

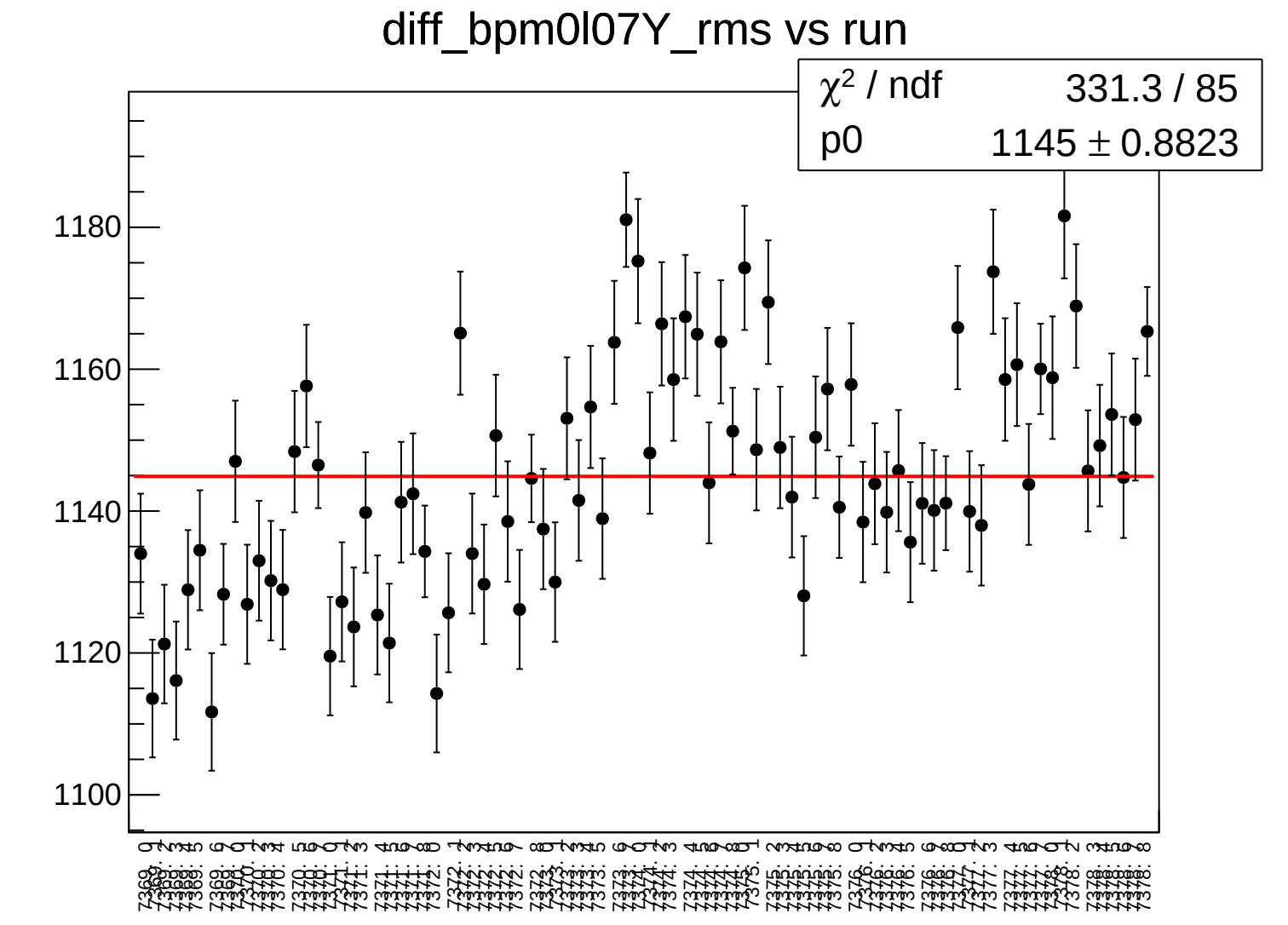

diff_bpm0l07X_mean vs run
χ^2 / ndf 77.5 / 85
p0 −21.01± 10.64
pull
Entries 86
Mean 41.24
Std Dev 45.9

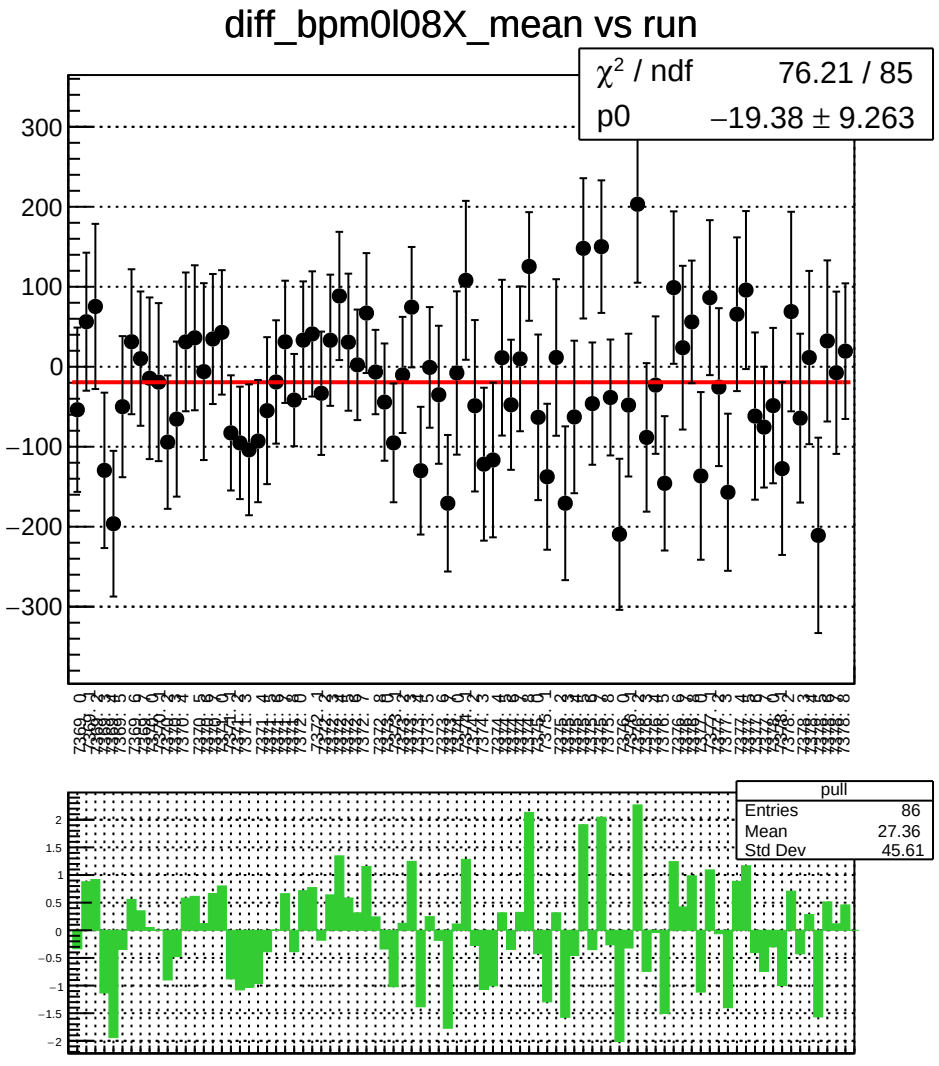

pull1D
Entries 86
Mean −0.0157
Std Dev 0.9492

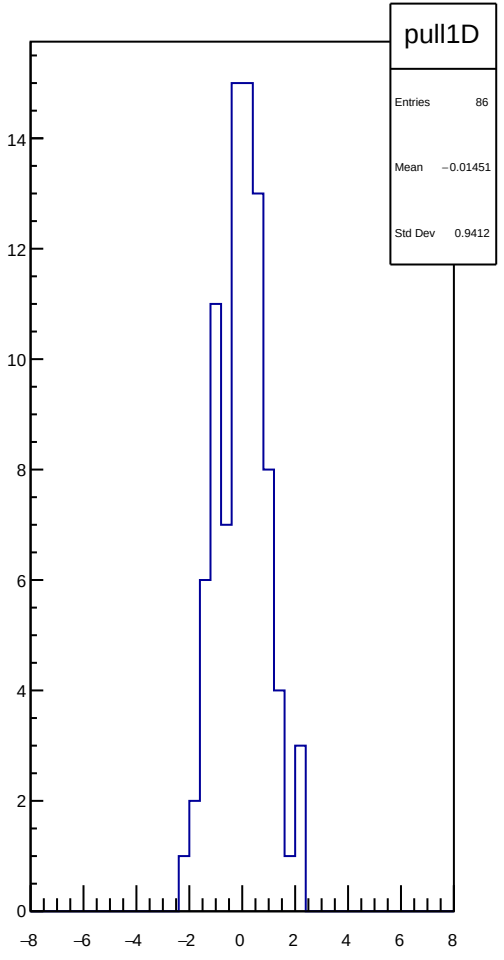

diff_bpm0l07X_rms vs run
χ² / ndf 3.357e+04 / 85
p0 9664 ± 7.522
14000
13000
12000
11000
10000
9000
8000
7000

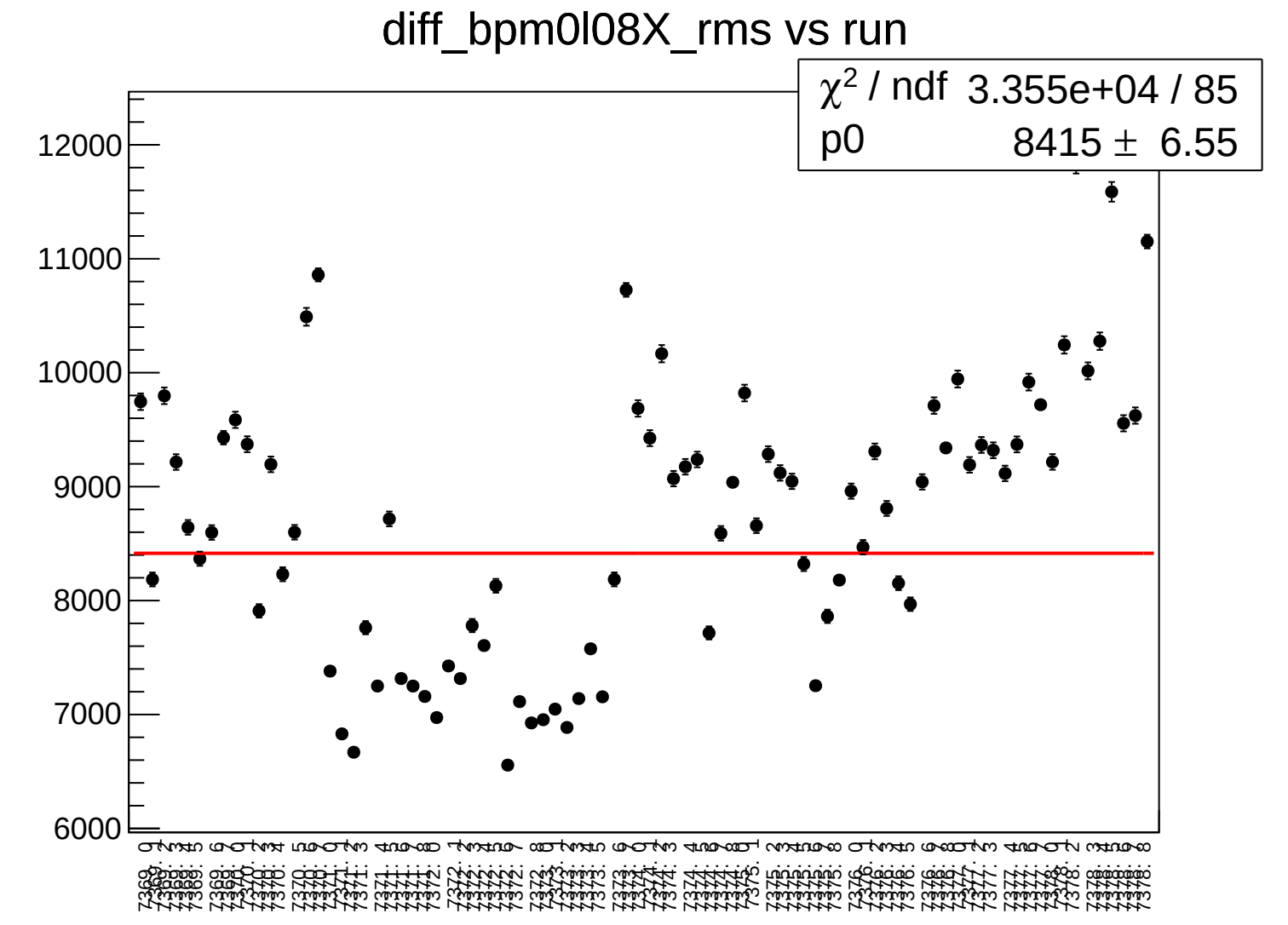

diff_bpm0l07Y_mean vs run
χ² / ndf 80.97 / 85
p0 2.186 ± 1.248
pull
Entries 86
Mean 69.32
Std Dev 84.62

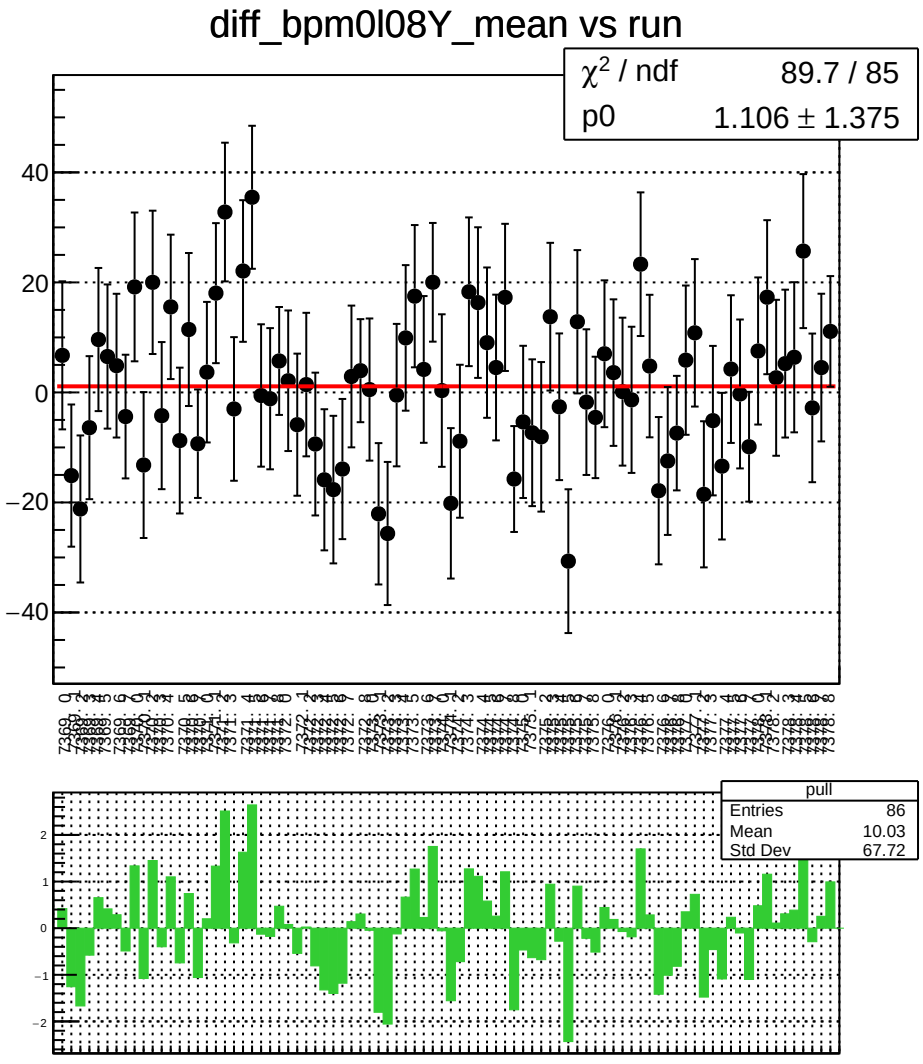

pull1D
Entries 86
Mean 0.0105
Std Dev 0.9703

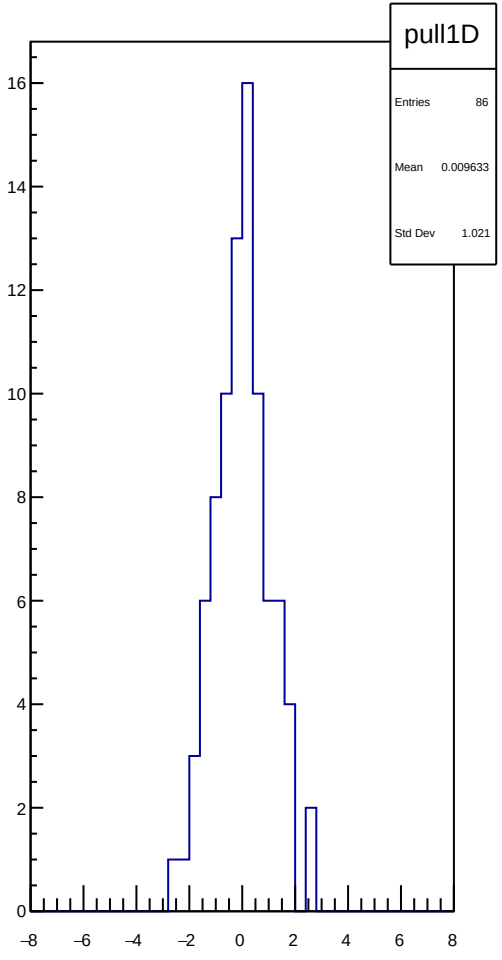

diff_bpm0l07Y_rms vs run
χ² / ndf 331.3 / 85
p0 1145 ± 0.8823
1180
1160
1140
1120
1100

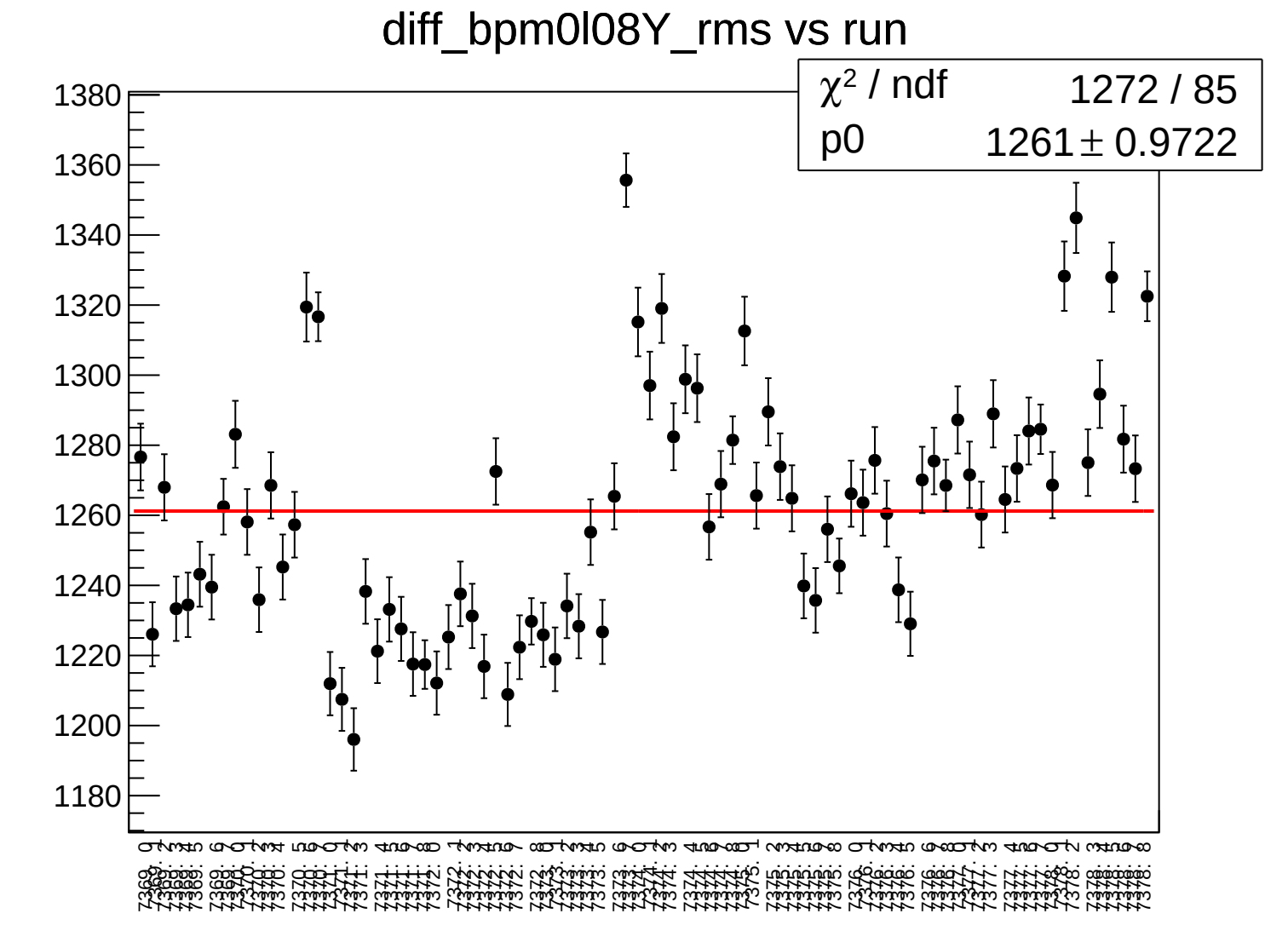

diff_bpm0l08X_mean vs run
χ² / ndf 76.21 / 85
p0 −19.38 ± 9.263
pull
Entries 86
Mean 27.36
Std Dev 45.61

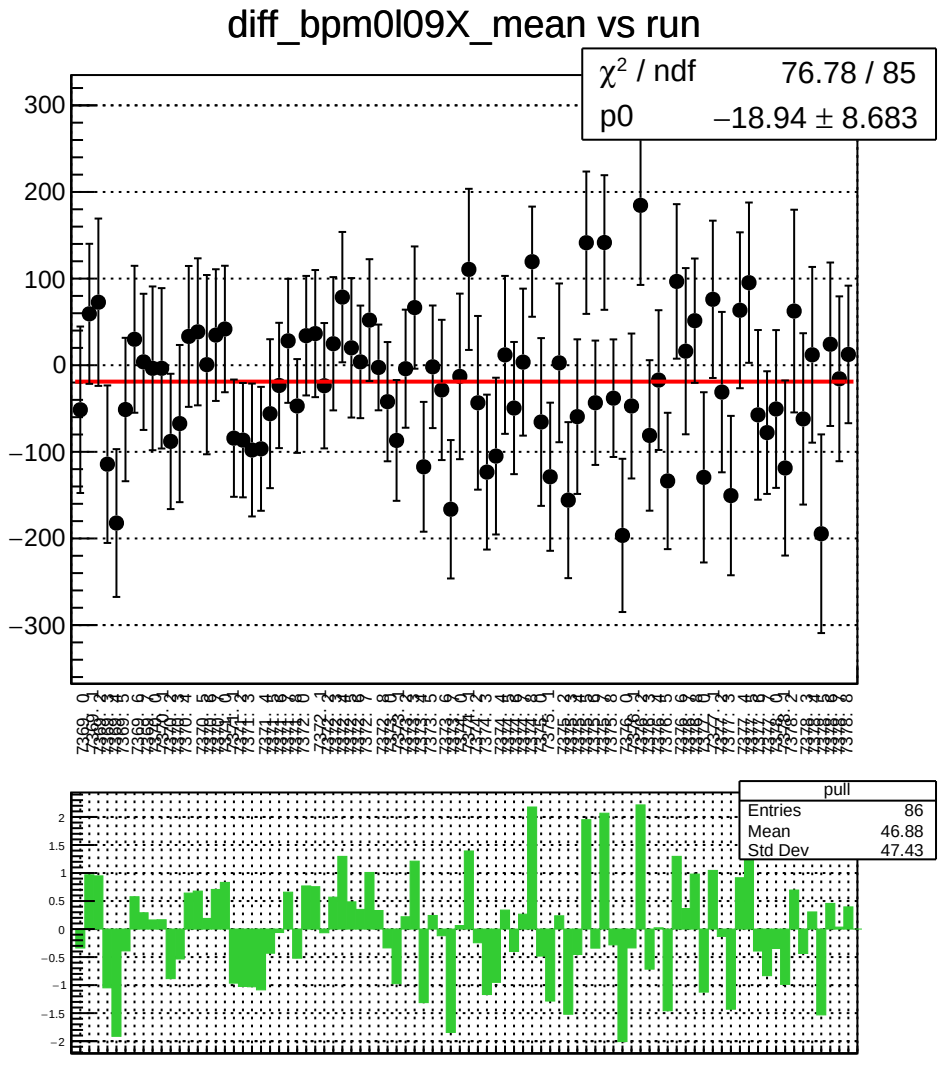

pull1D
Entries 86
Mean −0.01451
Std Dev 0.9412

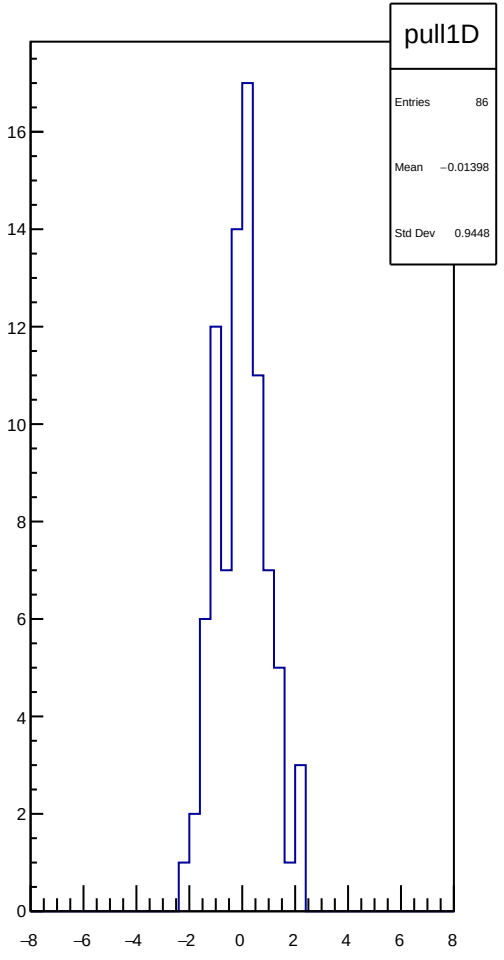

diff_bpm0l08X_rms vs run
χ² / ndf 3.355e+04 / 85
p0 8415 ± 6.55
12000
11000
10000
9000
8000
7000
6000

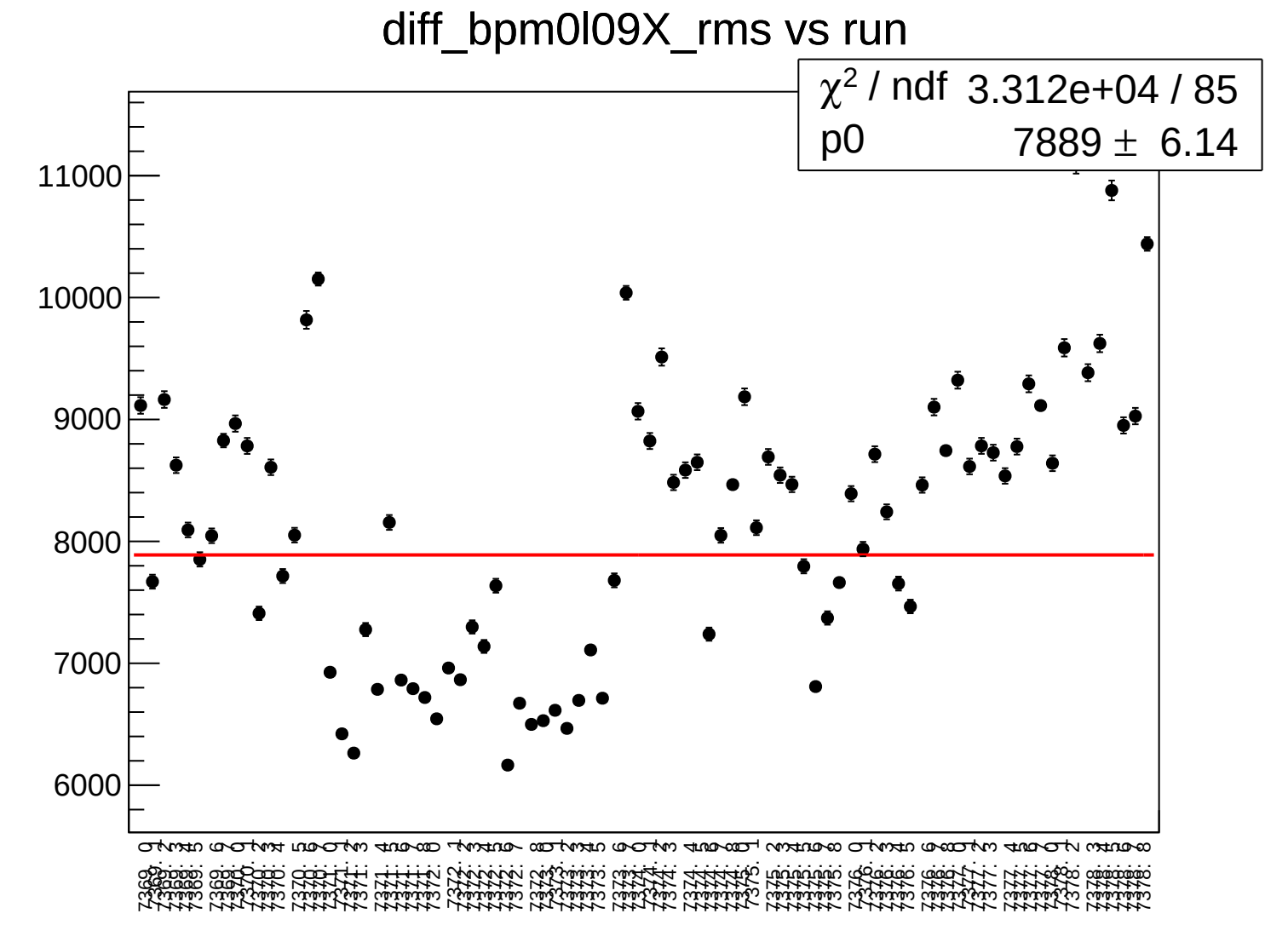

diff_bpm0l08Y_mean vs run
χ^2 / ndf 89.7 / 85
p0 1.106 ± 1.375
pull
Entries 86
Mean 10.03
Std Dev 67.72

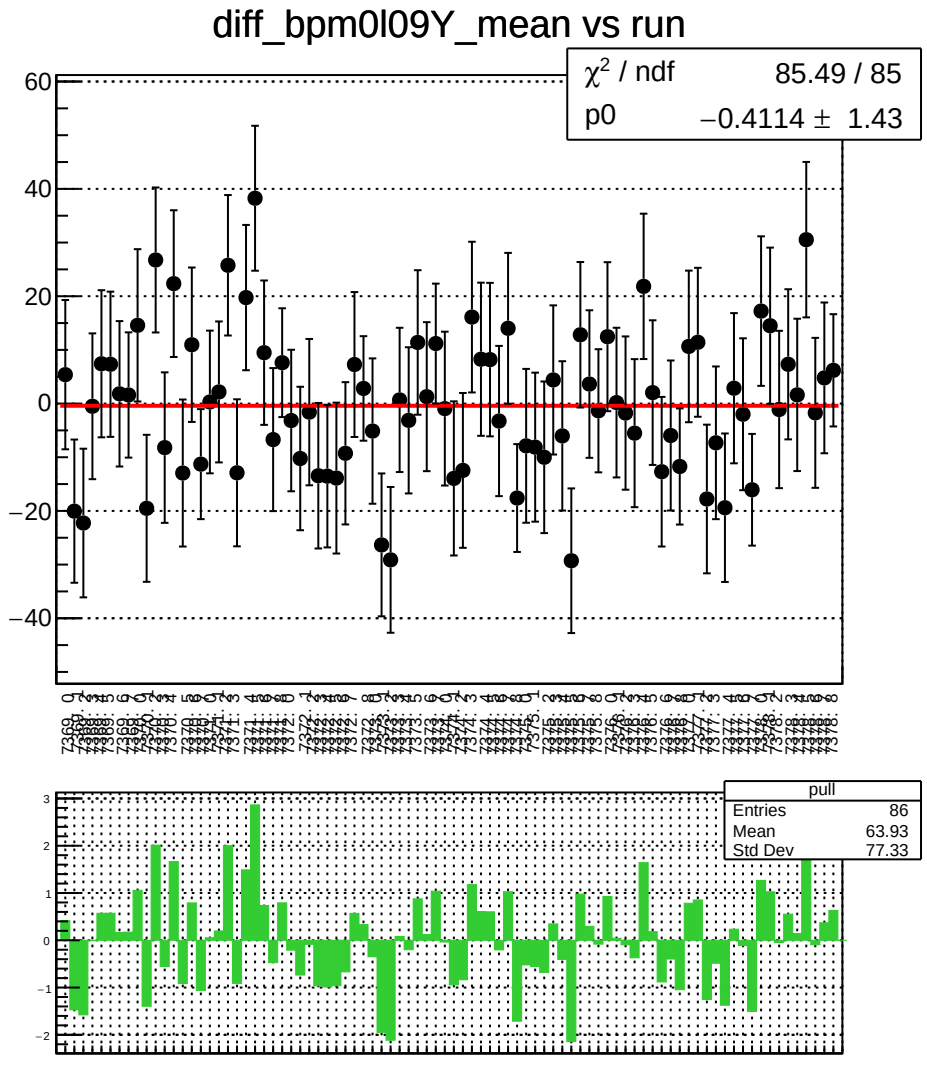

pull1D
Entries 86
Mean 0.009633
Std Dev 1.021

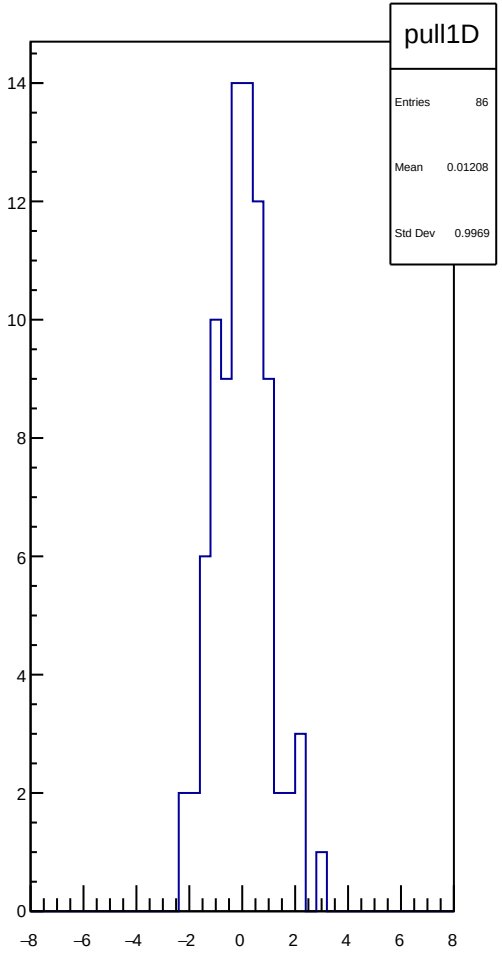

diff_bpm0l08Y_rms vs run
χ² / ndf 1272 / 85
p0 1261 ± 0.9722
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

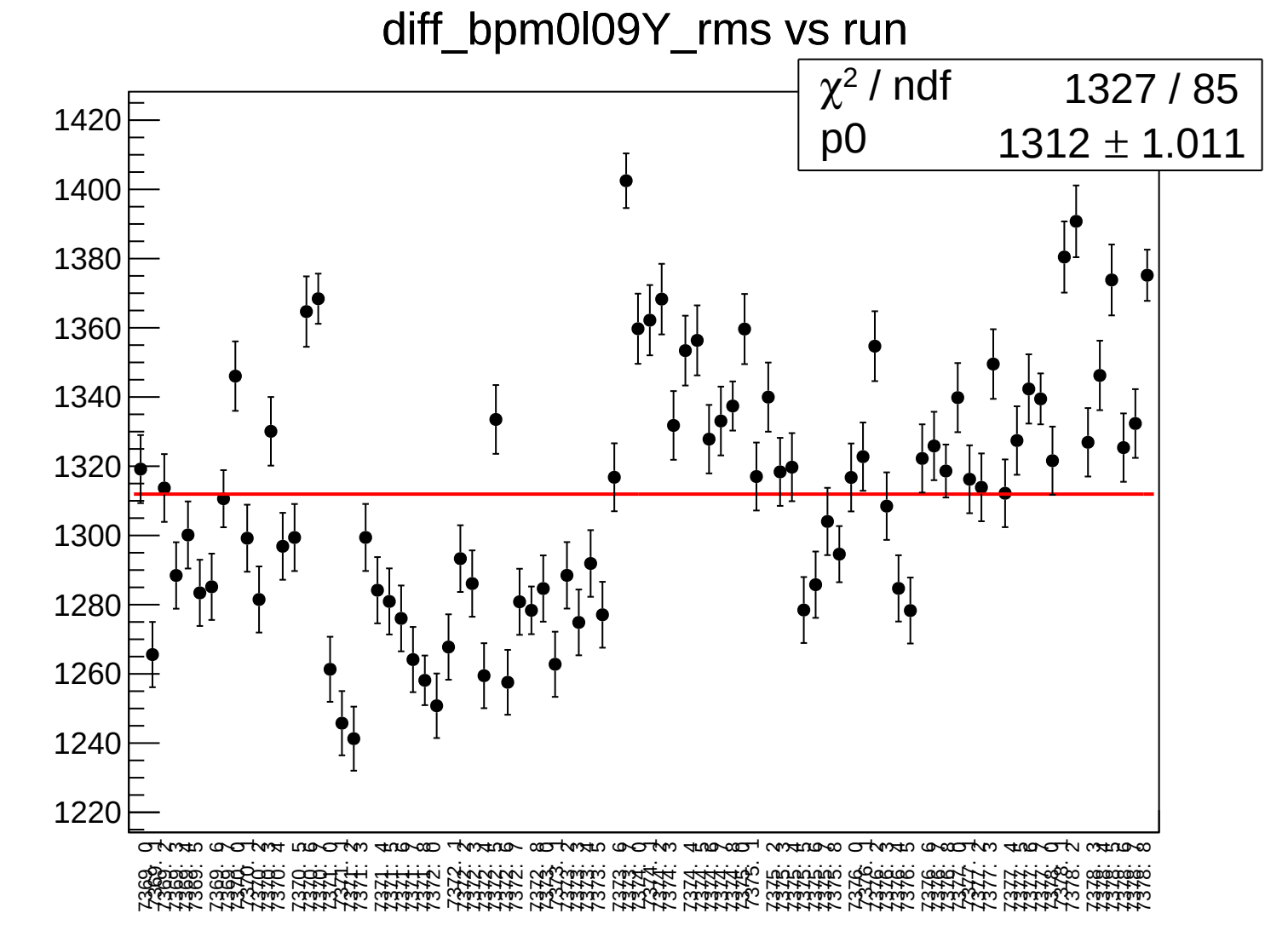

diff_bpm0l09X_mean vs run
χ² / ndf 76.78 / 85
p0 −18.94 ± 8.683
pull
Entries 86
Mean 46.88
Std Dev 47.43

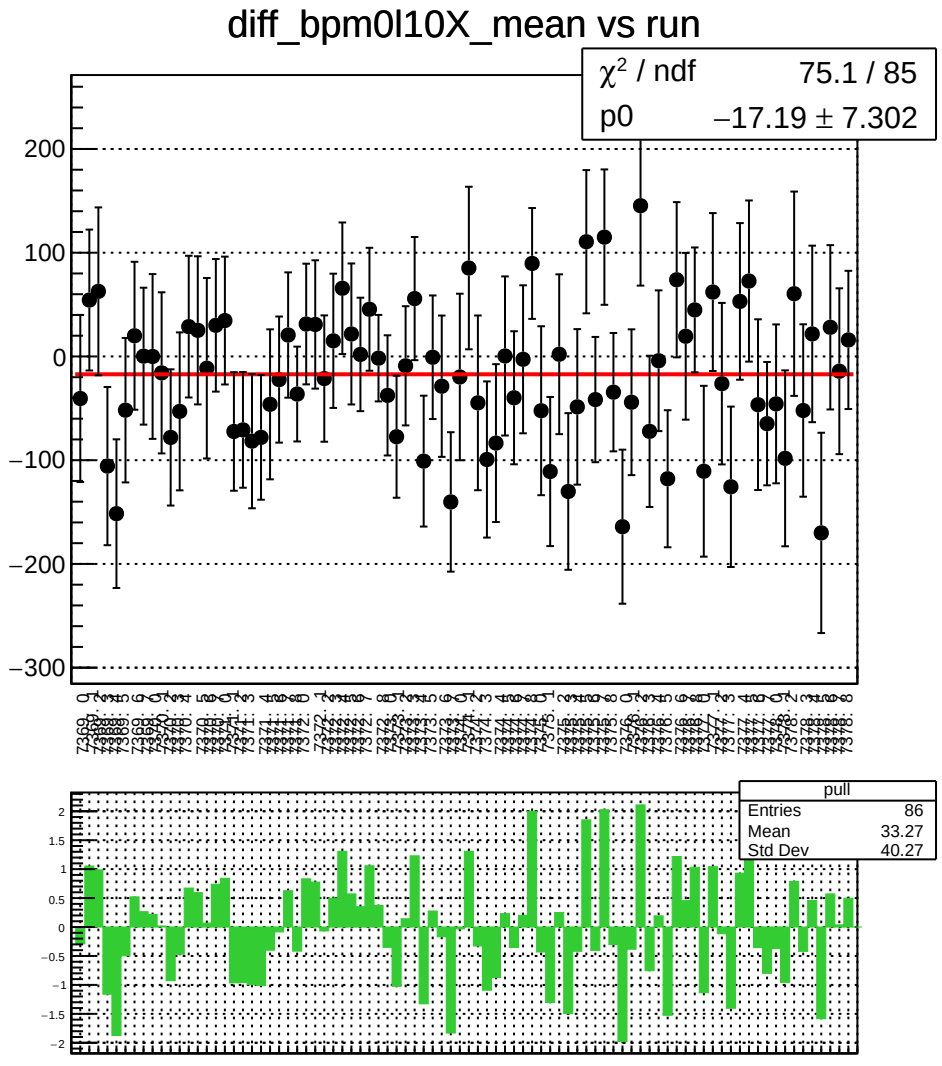

pull1D
Entries 86
Mean −0.01398
Std Dev 0.9448

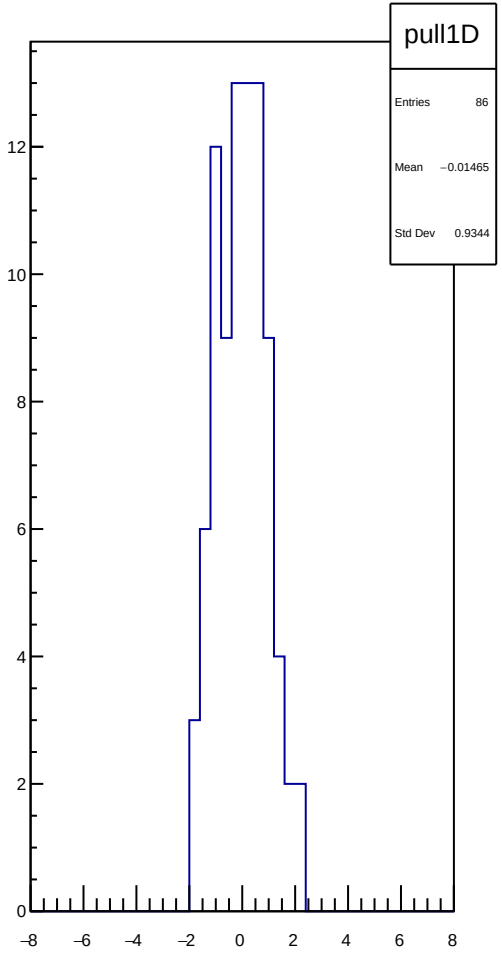

diff_bpm0l09X_rms vs run
χ² / ndf 3.312e+04 / 85
p0 7889 ± 6.14
11000
10000
9000
8000
7000
6000

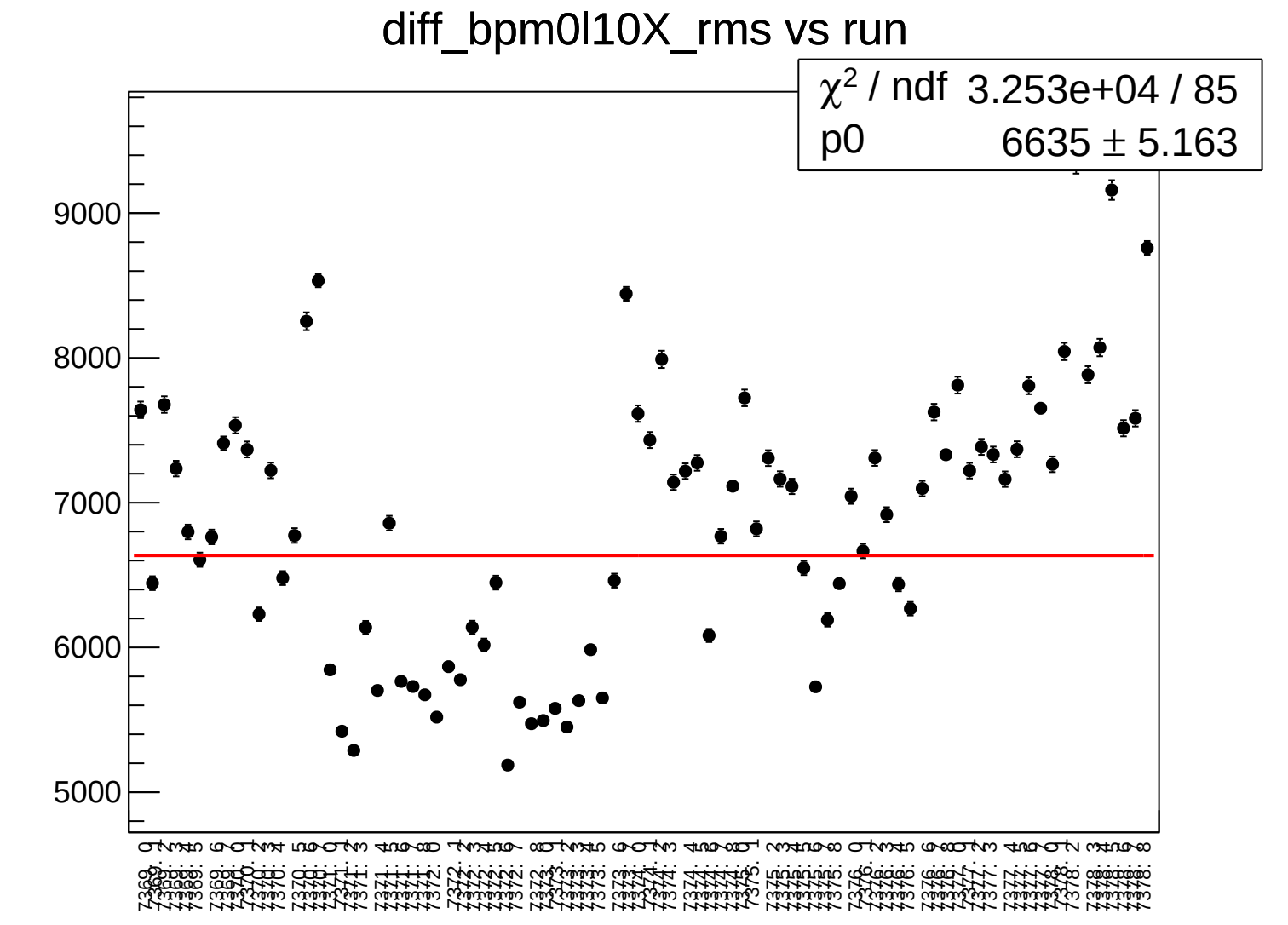

diff_bpm0l09Y_mean vs run
χ² / ndf 85.49 / 85
p0 −0.4114 ± 1.43
pull
Entries 86
Mean 63.93
Std Dev 77.33

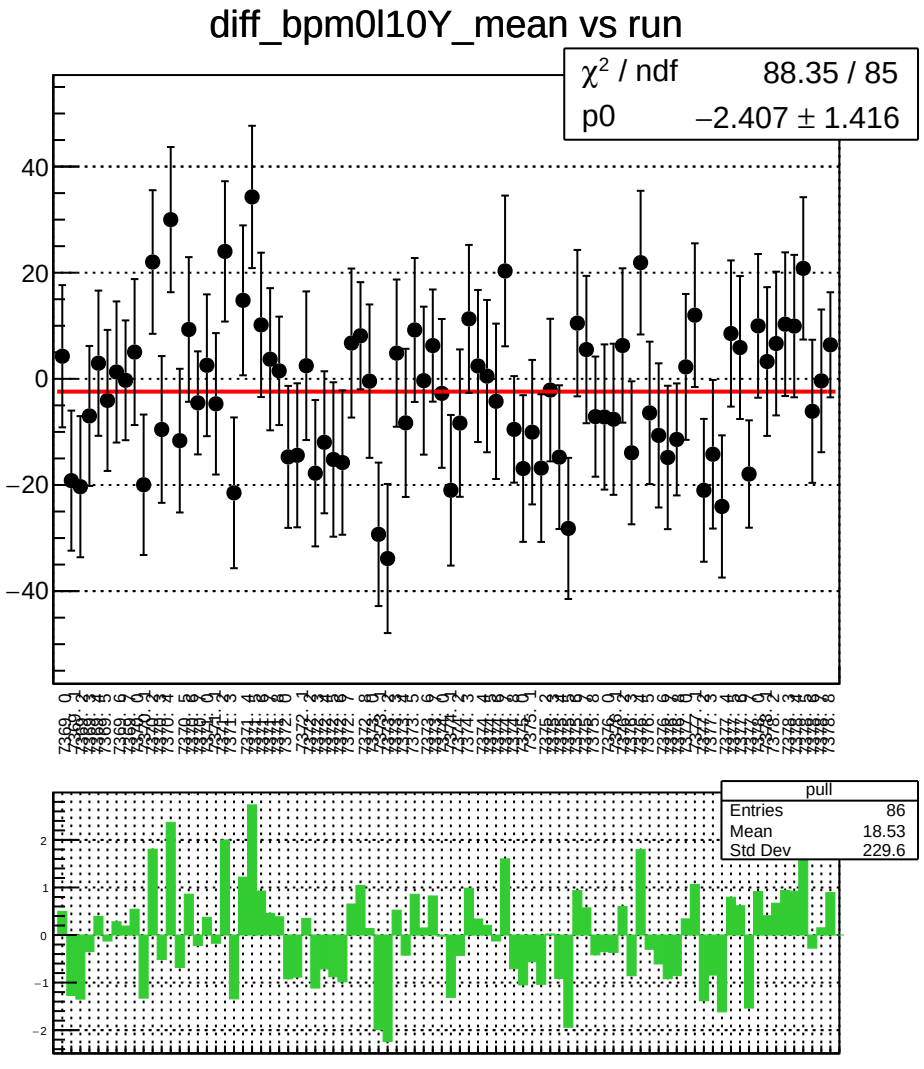

pull1D
Entries 86
Mean 0.01208
Std Dev 0.9969

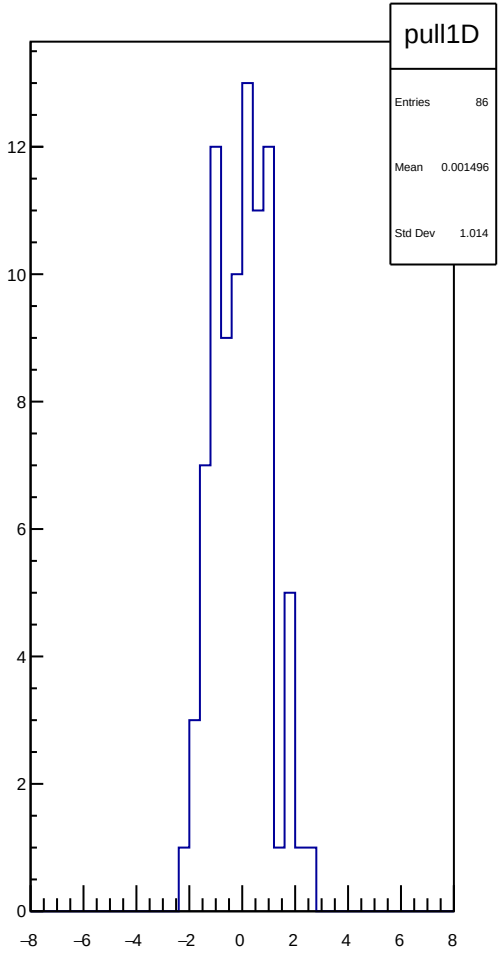

diff_bpm0l09Y_rms vs run
χ² / ndf 1327 / 85
p0 1312 ± 1.011
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

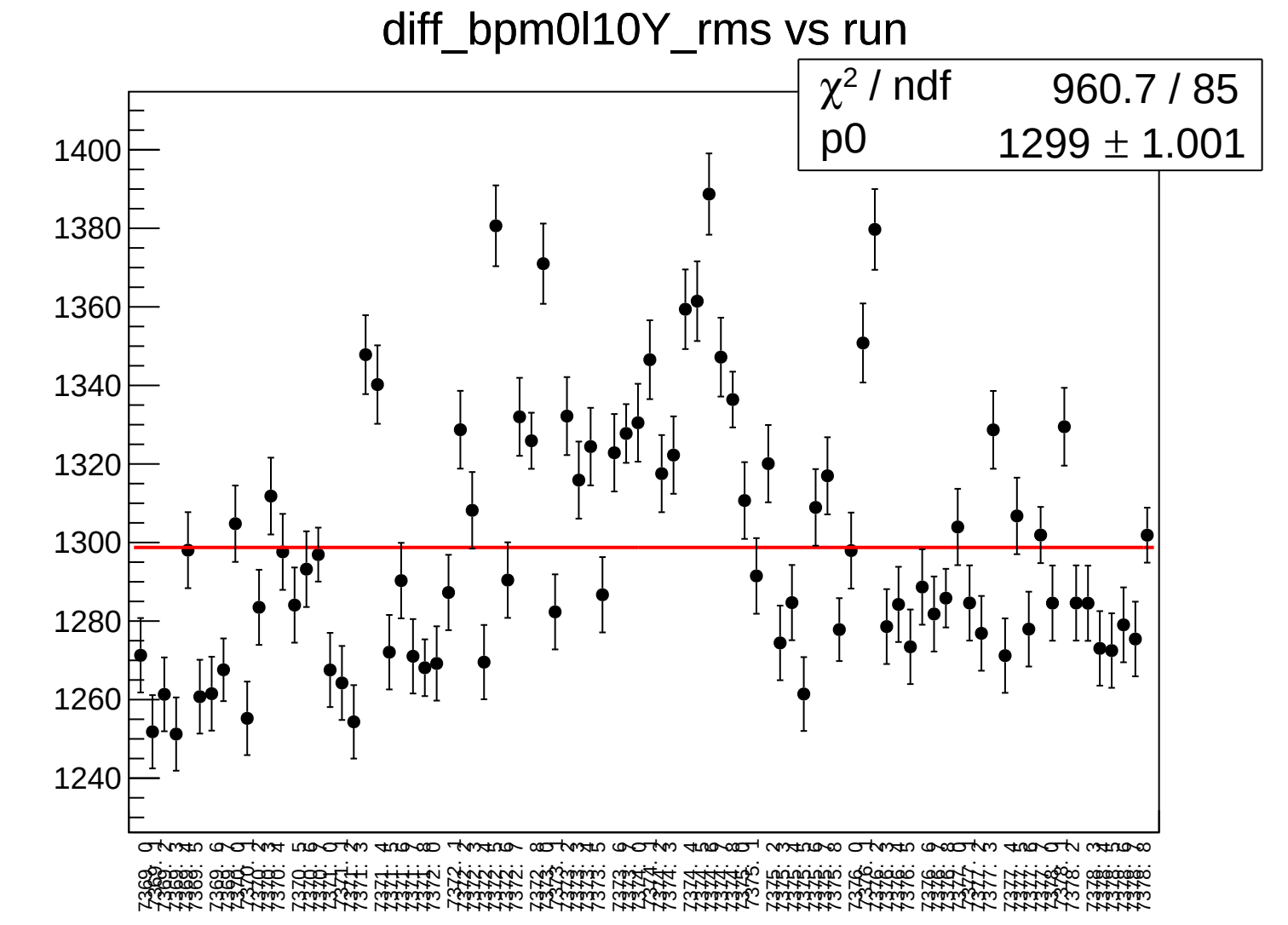

diff_bpm0l10X_mean vs run
χ² / ndf 75.1 / 85
p0 −17.19 ± 7.302
pull
Entries 86
Mean 33.27
Std Dev 40.27

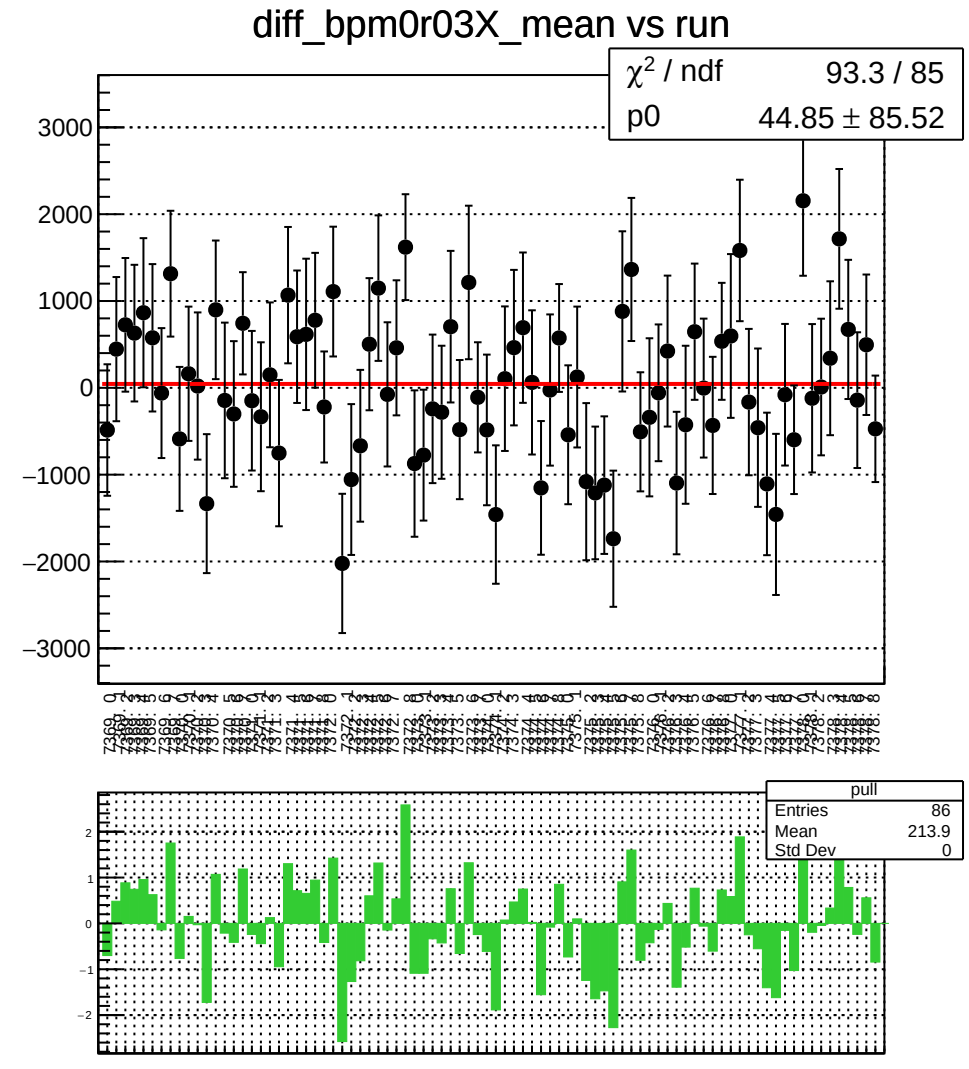

pull1D
Entries 86
Mean −0.01465
Std Dev 0.9344

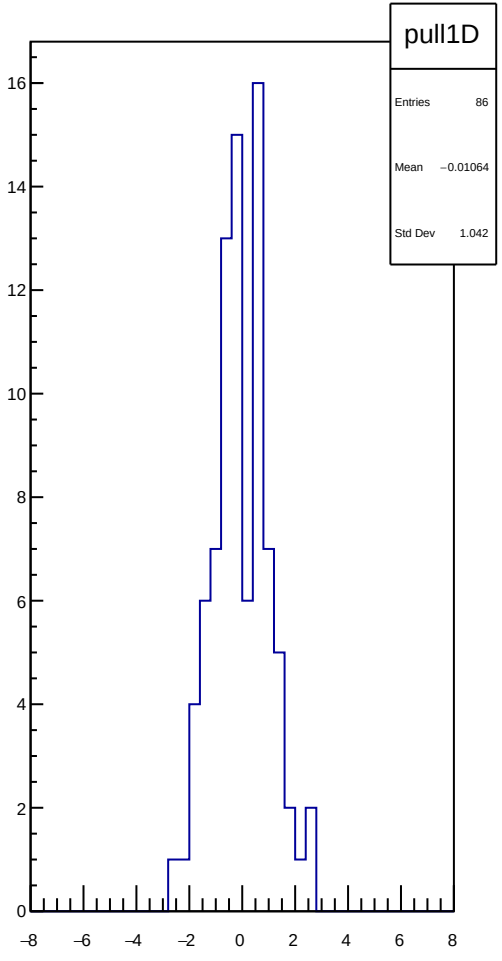

diff_bpm0l10X_rms vs run
χ^2 / ndf 3.253e+04 / 85
p0 6635 ± 5.163
9000
8000
7000
6000
5000

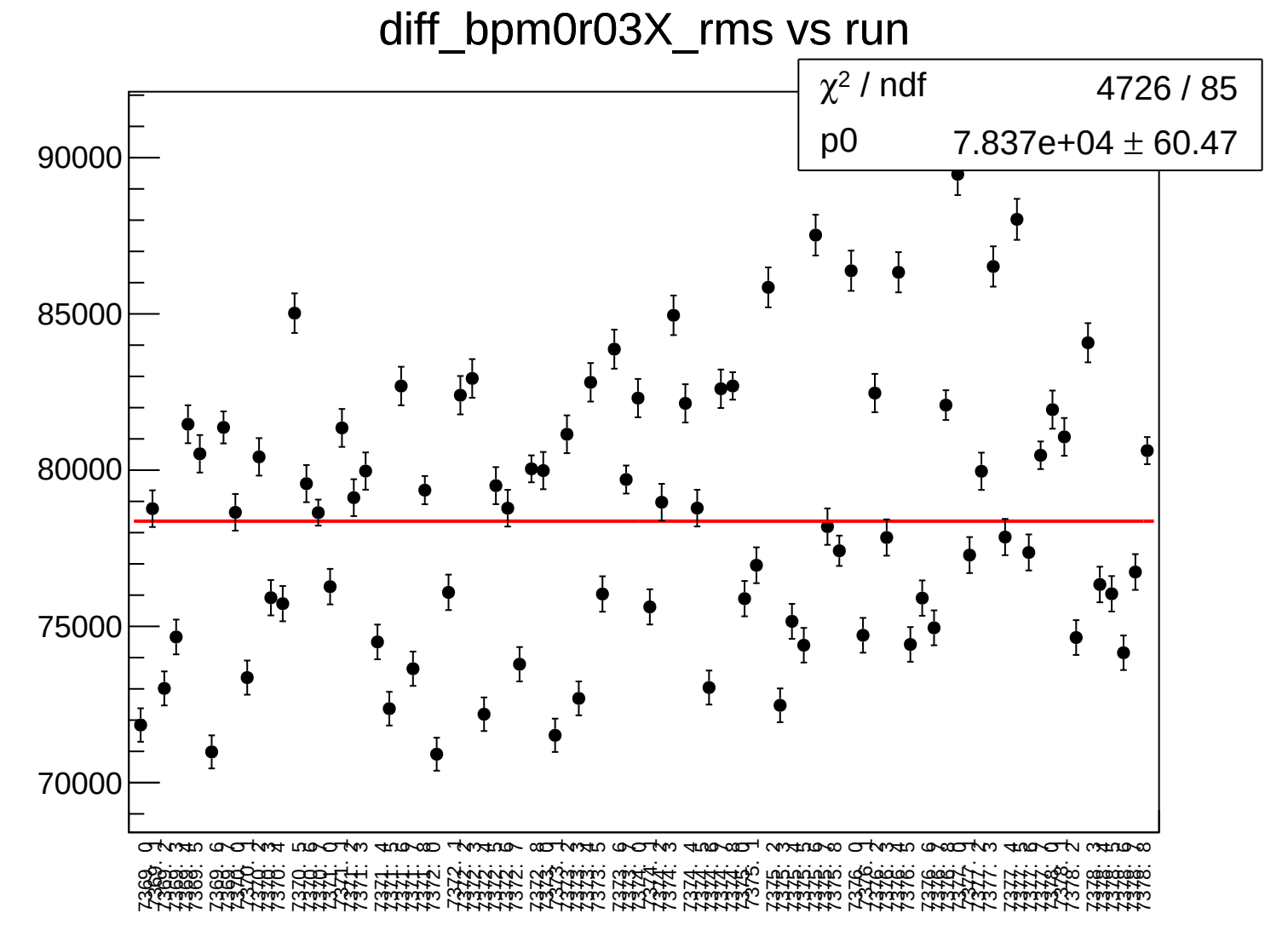

diff_bpm0l10Y_mean vs run
χ² / ndf 88.35 / 85
p0 −2.407 ± 1.416
pull
Entries 86
Mean 18.53
Std Dev 229.6

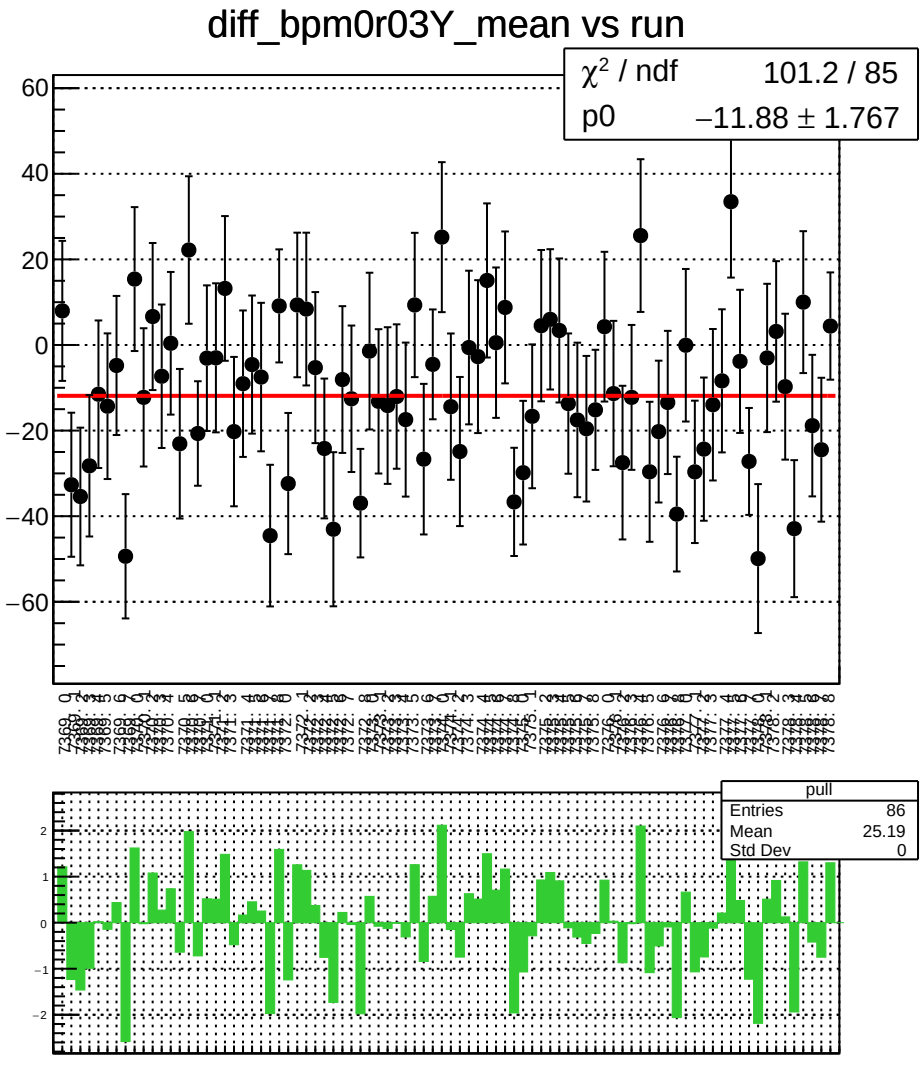

pull1D
Entries 86
Mean 0.001496
Std Dev 1.014

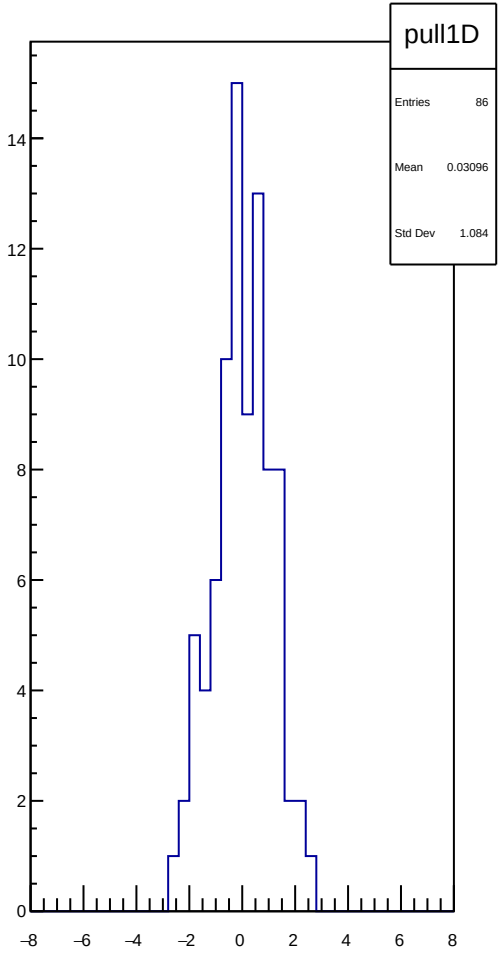

diff_bpm0l10Y_rms vs run
χ² / ndf 960.7 / 85
p0 1299 ± 1.001
1400
1380
1360
1340
1320
1300
1280
1260
1240

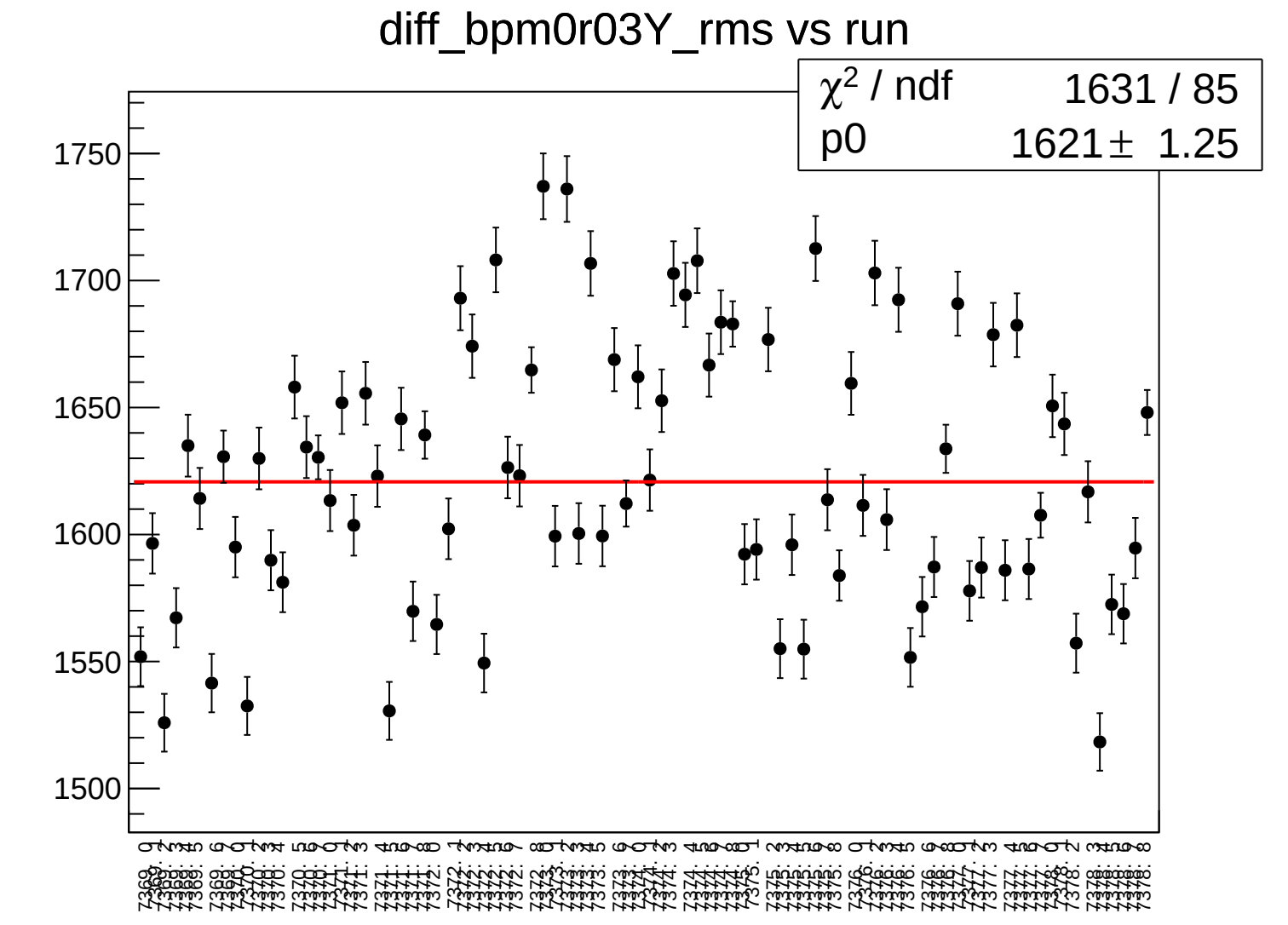

diff_bpm0r03X_mean vs run
χ^2 / ndf 93.3 / 85
p0 44.85 ± 85.52
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 213.9
Std Dev 0
2
1
0
−1
−2

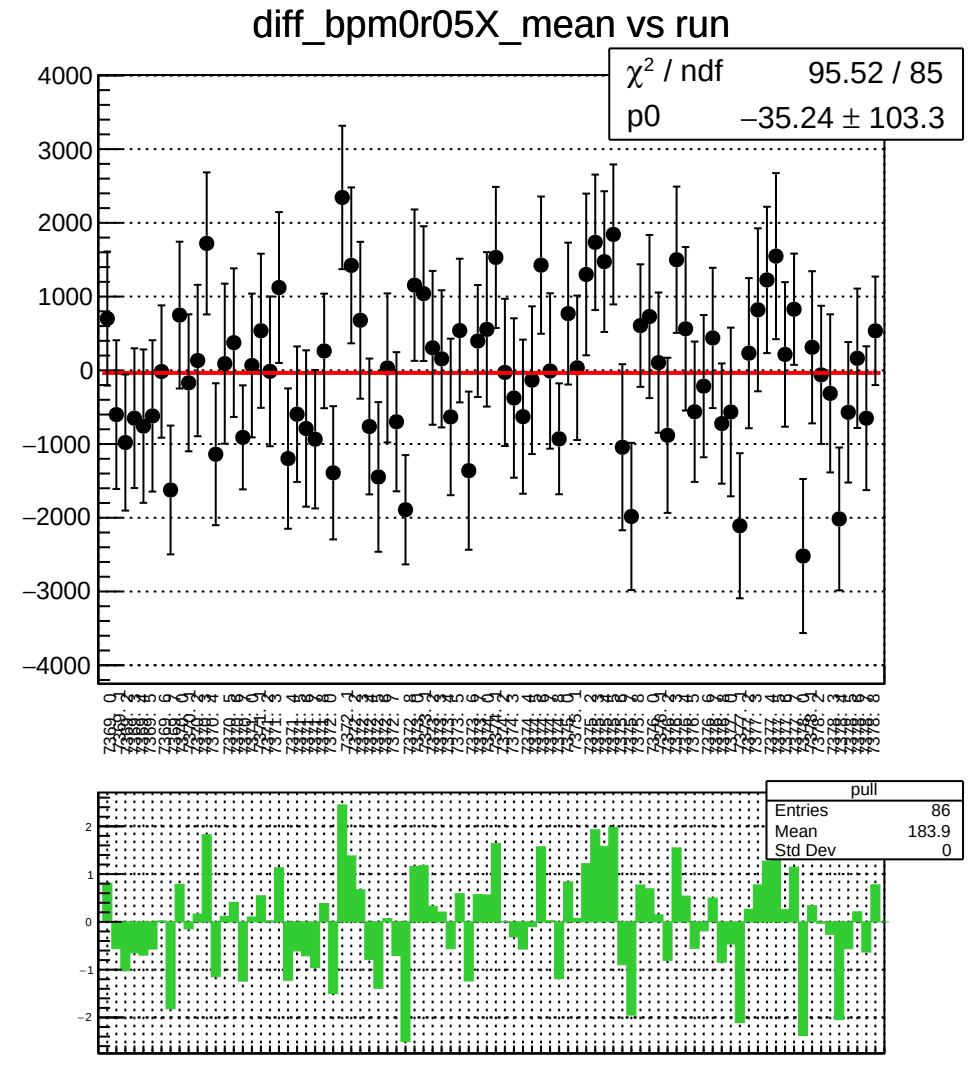

pull1D
Entries 86
Mean −0.01064
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

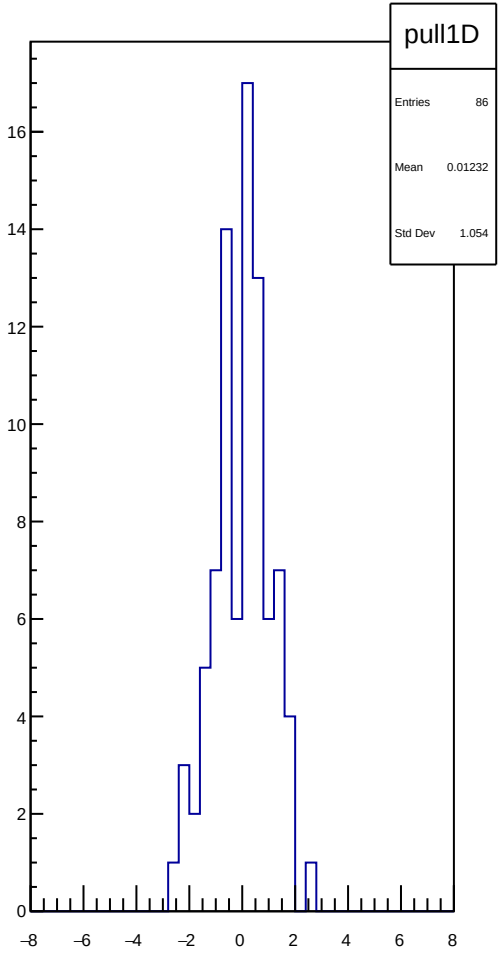

diff_bpm0r03X_rms vs run
χ² / ndf 4726 / 85
p0 7.837e+04 ± 60.47
90000
85000
80000
75000
70000

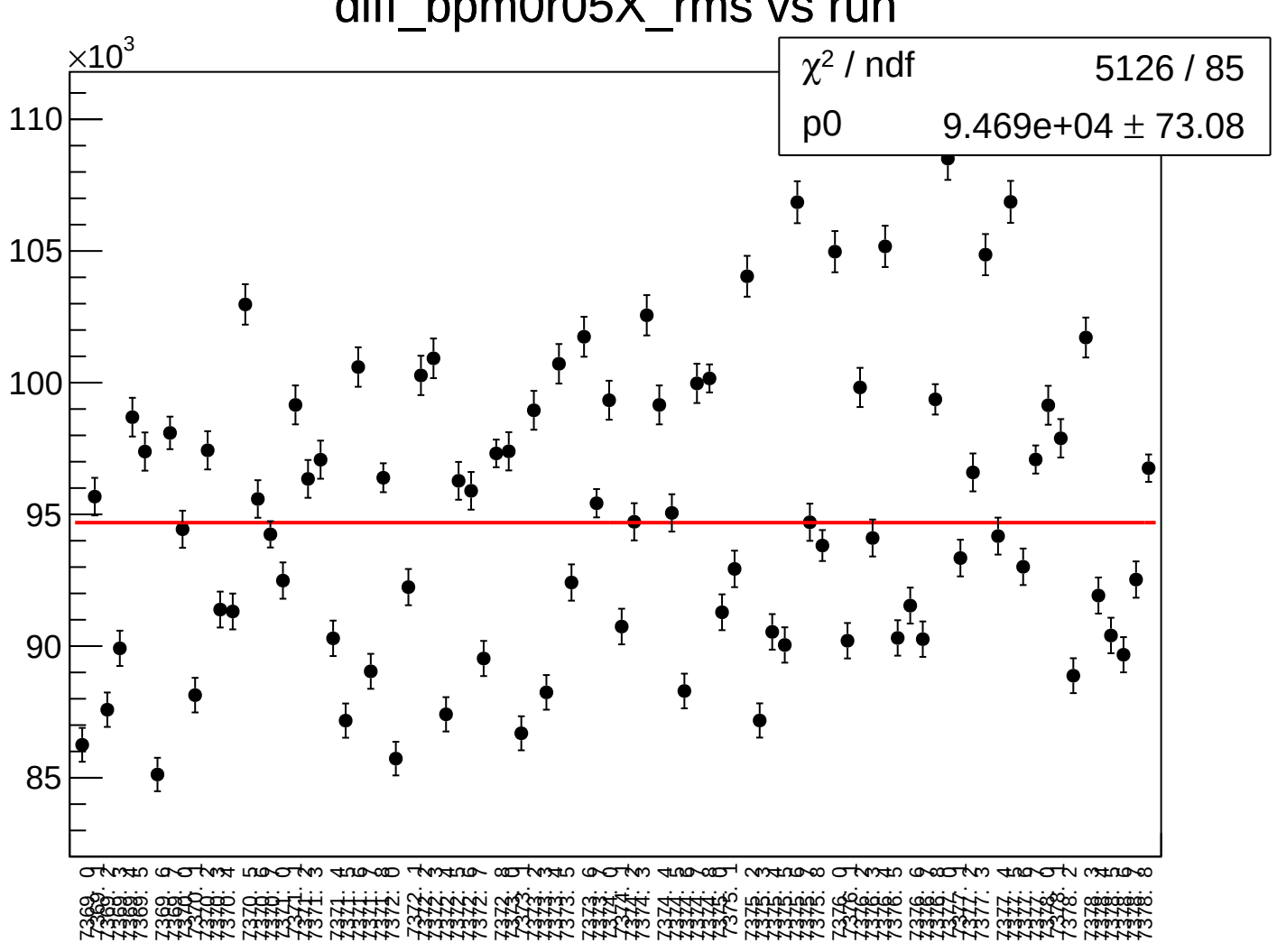

diff_bpm0r03Y_mean vs run
χ² / ndf 101.2 / 85
p0 −11.88 ± 1.767
pull
Entries 86
Mean 25.19
Std Dev 0

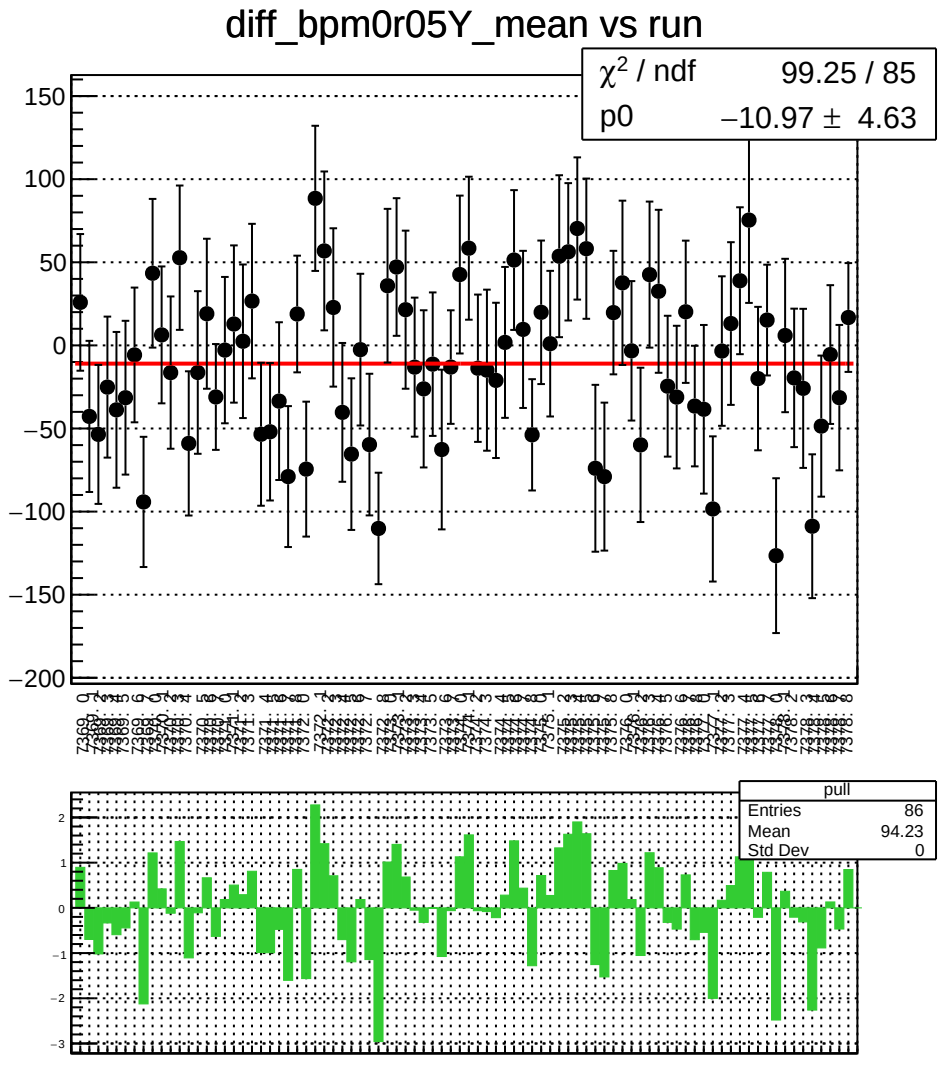

pull1D
Entries 86
Mean 0.03096
Std Dev 1.084

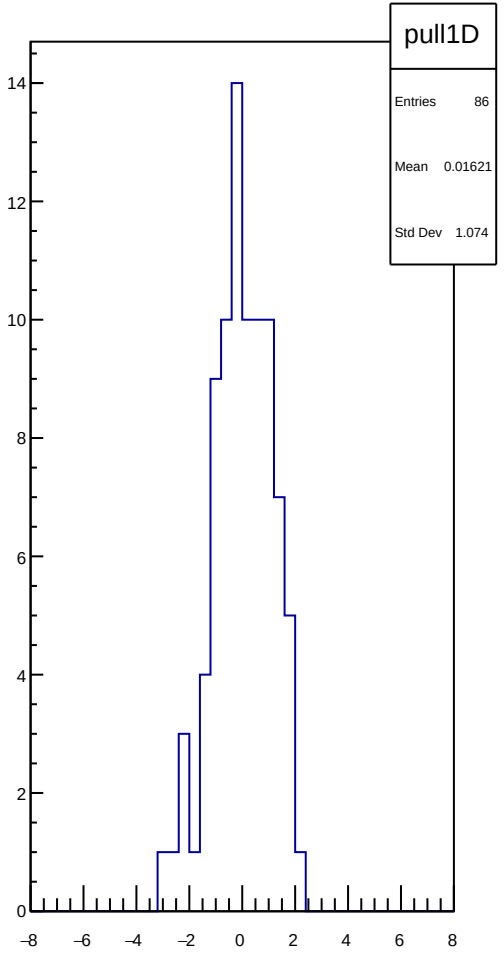

diff_bpm0r03Y_rms vs run
χ² / ndf 1631 / 85
p0 1621 ± 1.25
1750
1700
1650
1600
1550
1500

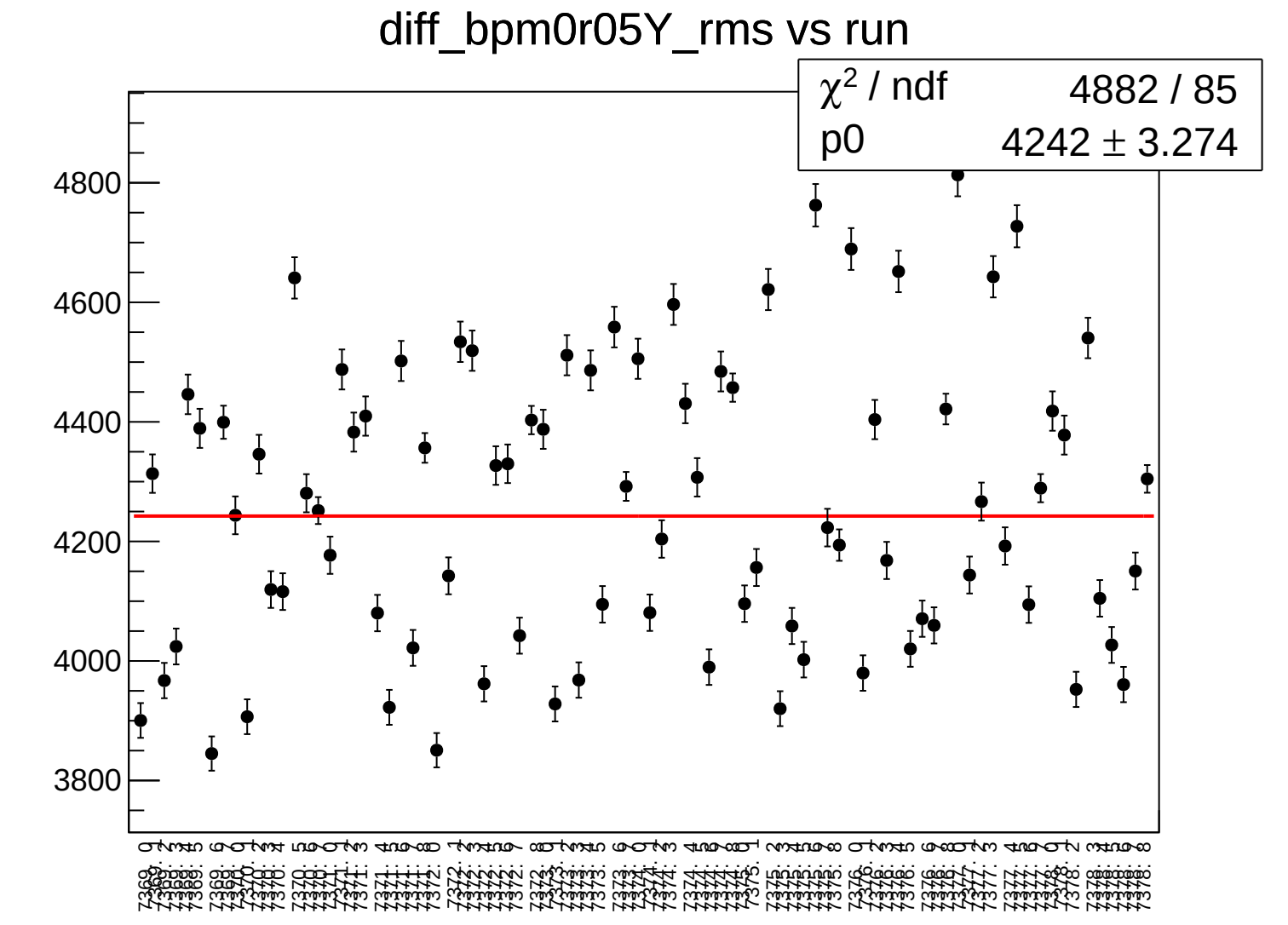

diff_bpm0r05X_mean vs run
χ² / ndf 95.52 / 85
p0 −35.24 ± 103.3
pull
Entries 86
Mean 183.9
Std Dev 0

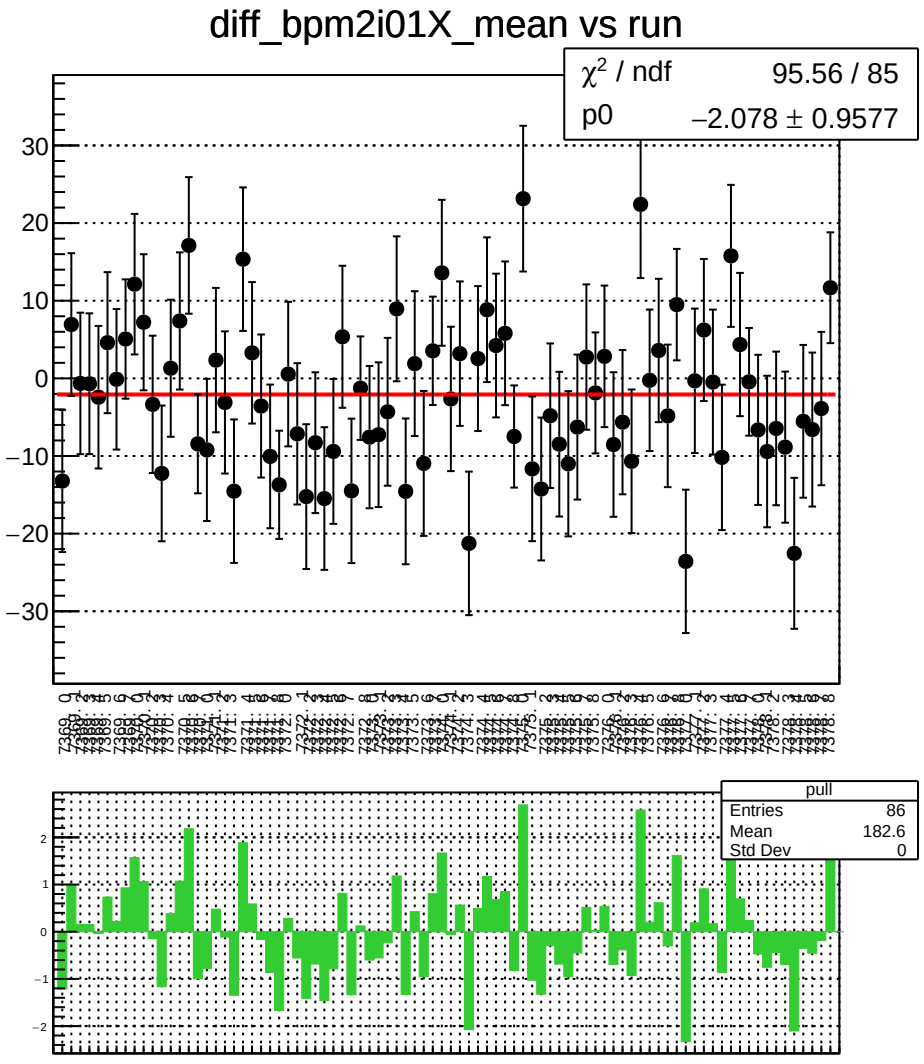

pull1D
Entries 86
Mean 0.01232
Std Dev 1.054

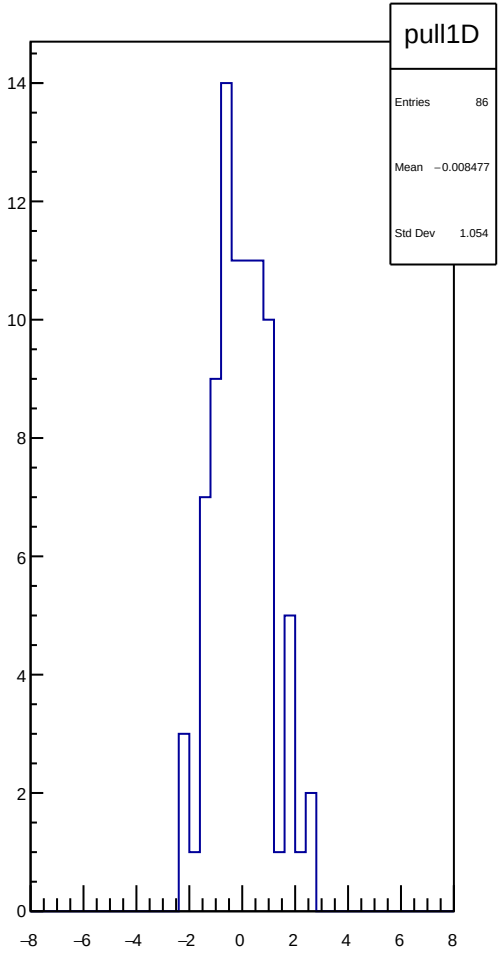

diff_bpm0r05X_rms vs run
×10^3
110
105
100
95
90
85
χ² / ndf 5126 / 85
p0 9.469e+04 ± 73.08

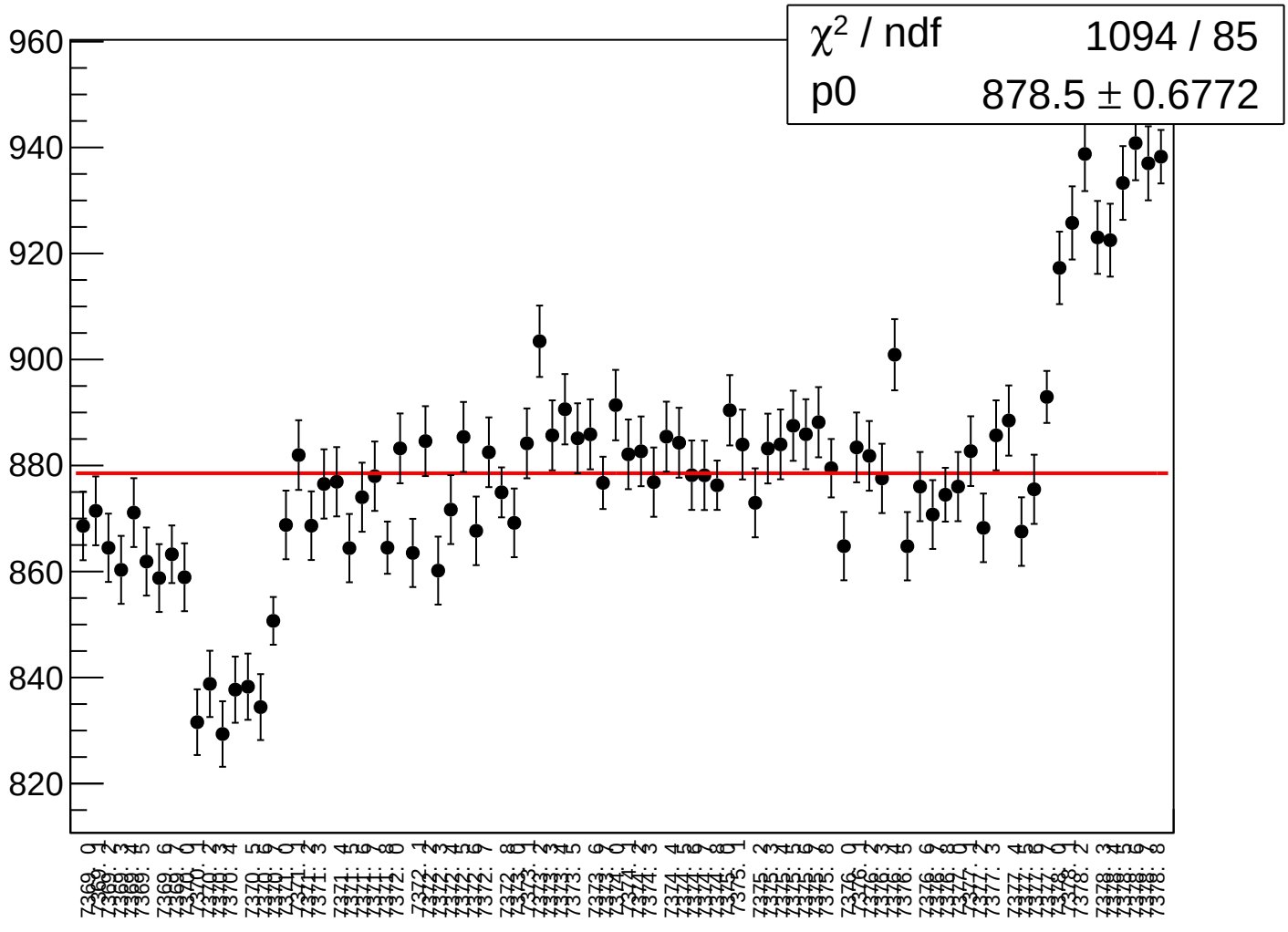

diff_bpm0r05Y_mean vs run
χ² / ndf 99.25 / 85
p0 −10.97 ± 4.63
pull
Entries 86
Mean 94.23
Std Dev 0

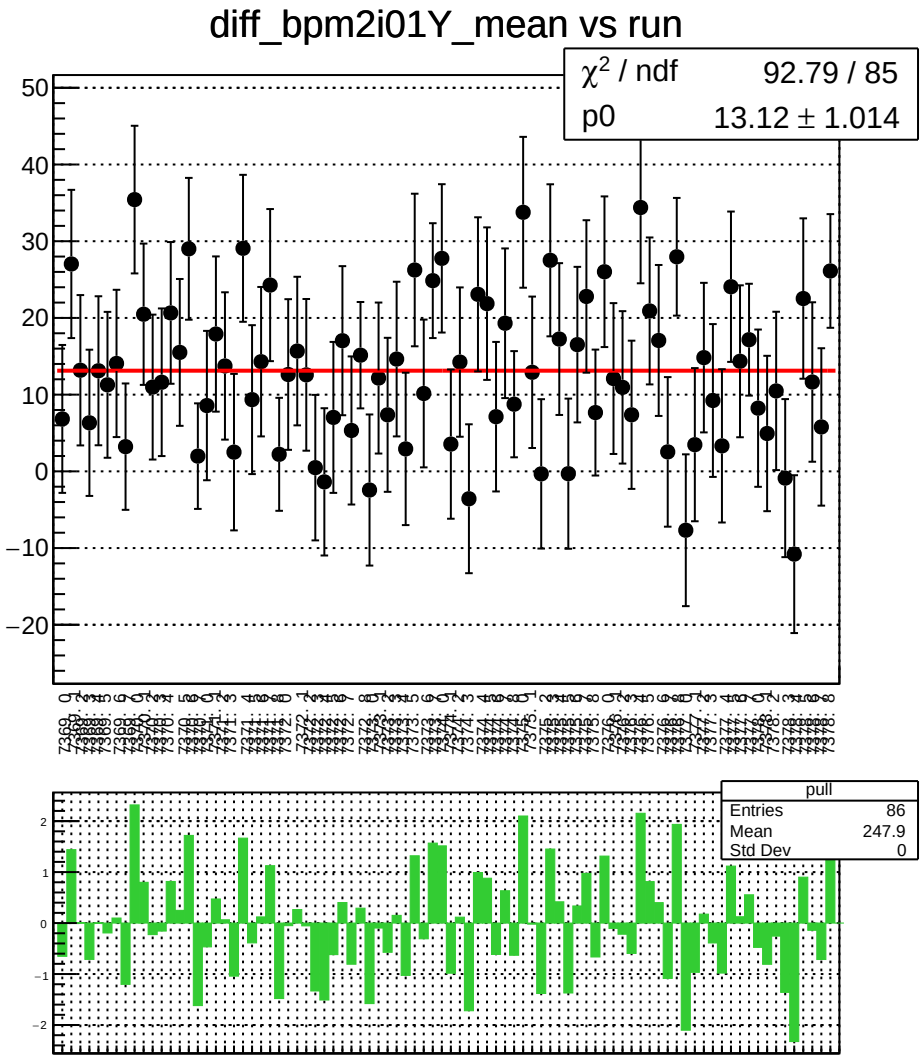

pull1D
Entries 86
Mean 0.01621
Std Dev 1.074

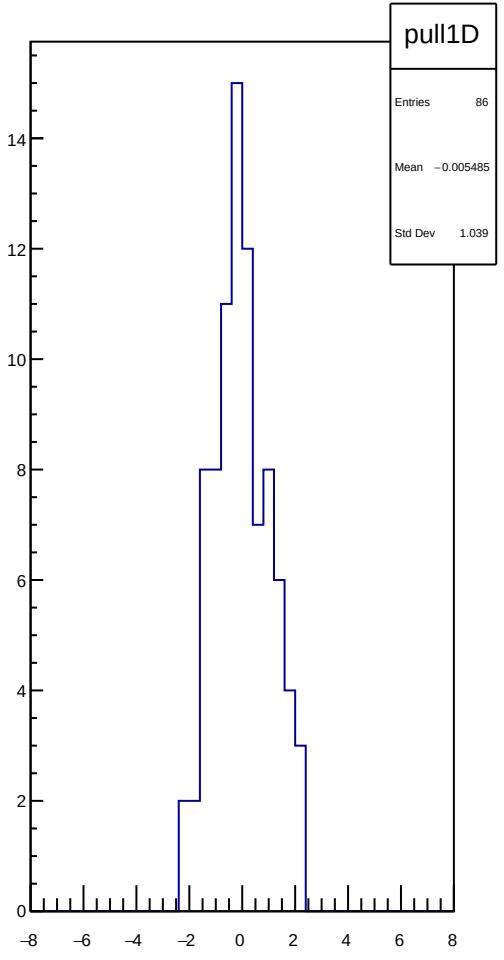

diff_bpm0r05Y_rms vs run
χ² / ndf 4882 / 85
p0 4242 ± 3.274
4800
4600
4400
4200
4000
3800

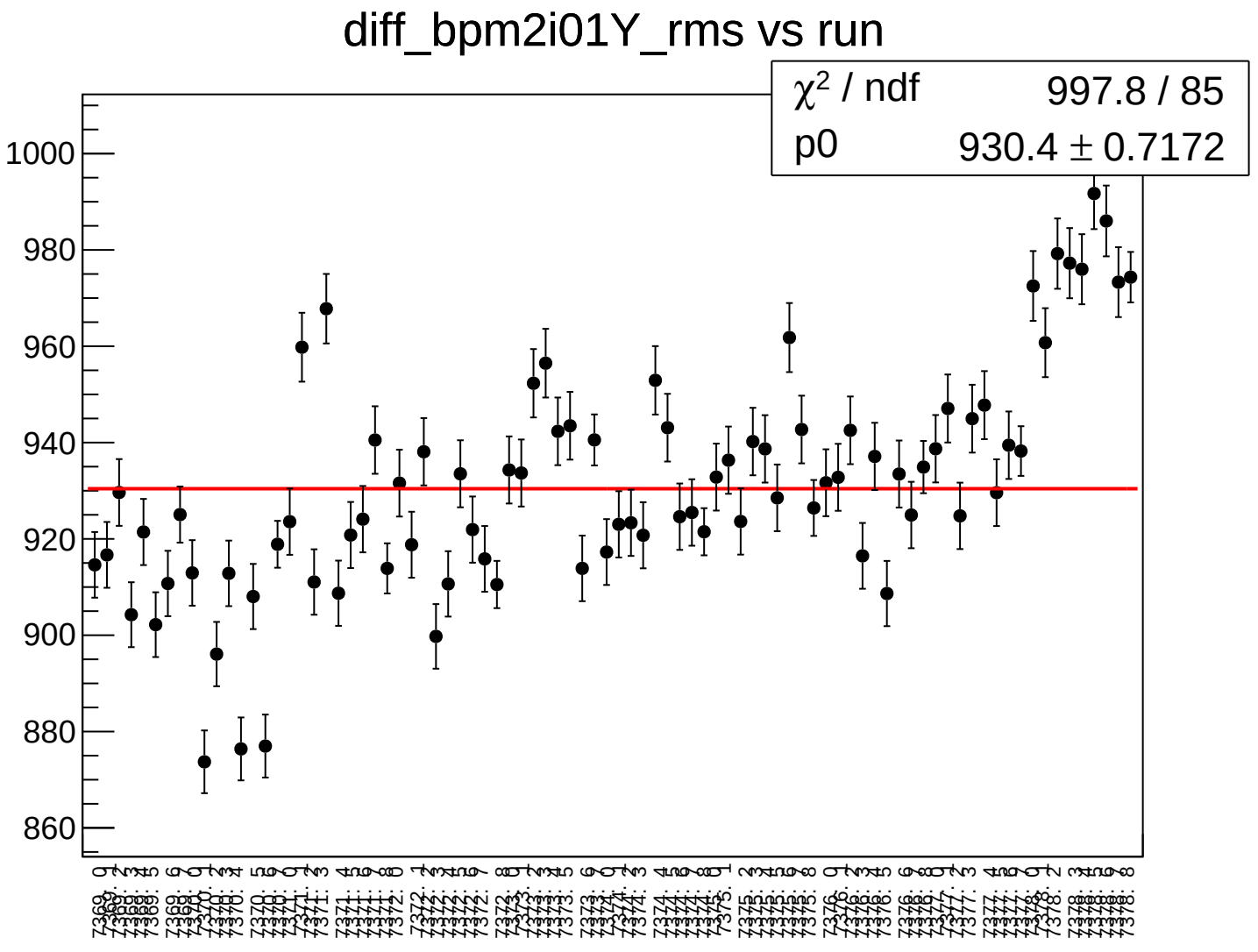

diff_bpm2i01X_mean vs run
χ² / ndf 95.56 / 85
p0 −2.078 ± 0.9577
pull
Entries 86
Mean 182.6
Std Dev 0

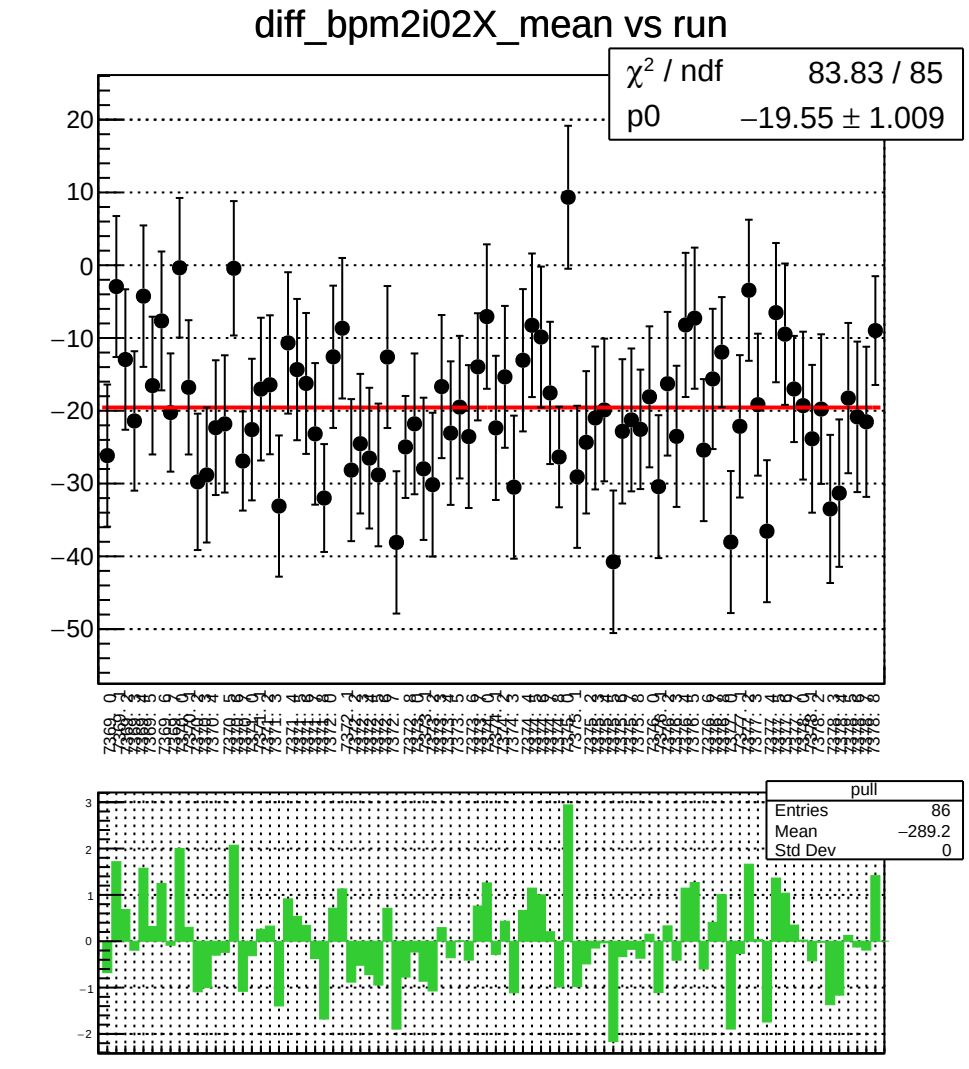

pull1D
Entries 86
Mean −0.008477
Std Dev 1.054

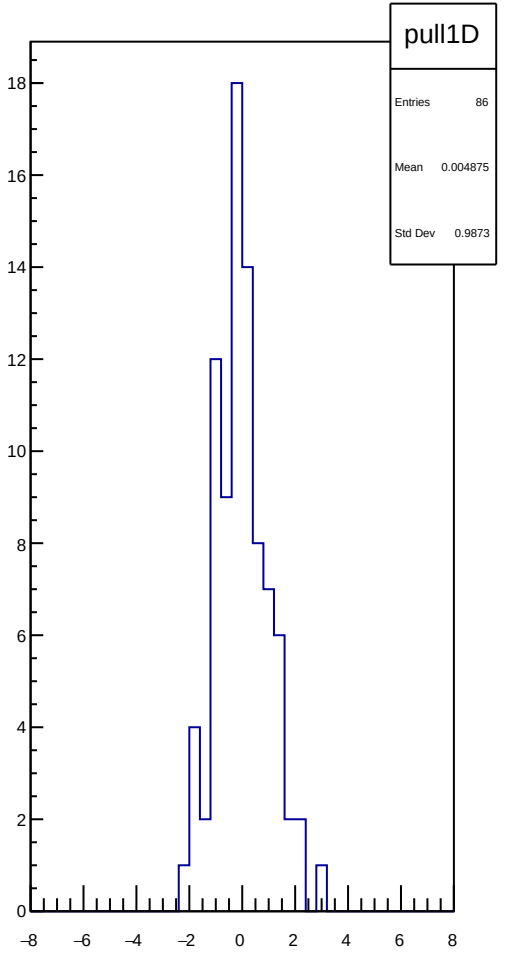

diff_bpm2i01X_rms vs run
χ^2 / ndf 1094 / 85
p0 878.5 ± 0.6772
960
940
920
900
880
860
840
820

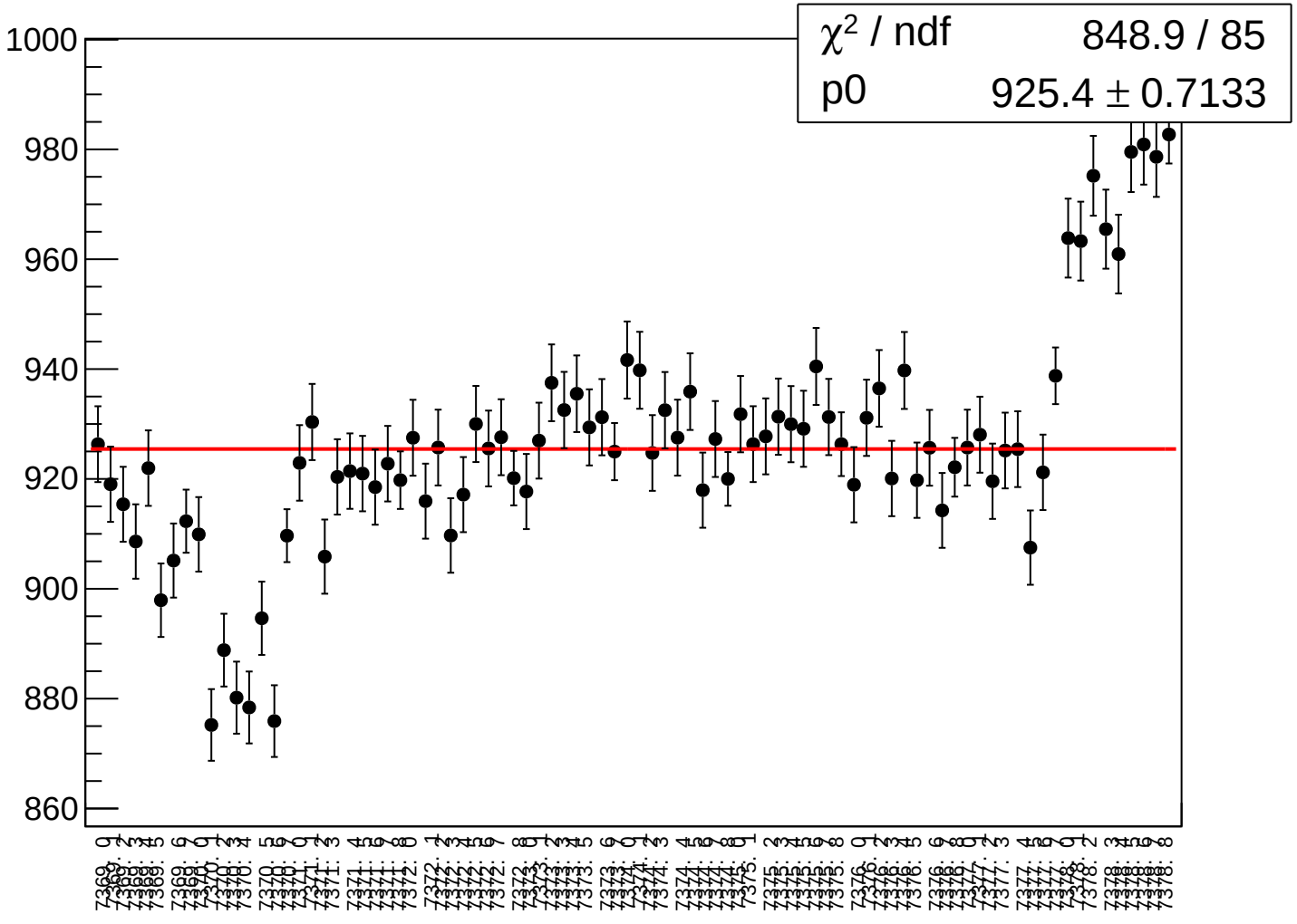

diff_bpm2i01Y_mean vs run
χ² / ndf 92.79 / 85
p0 13.12 ± 1.014
pull
Entries 86
Mean 247.9
Std Dev 0

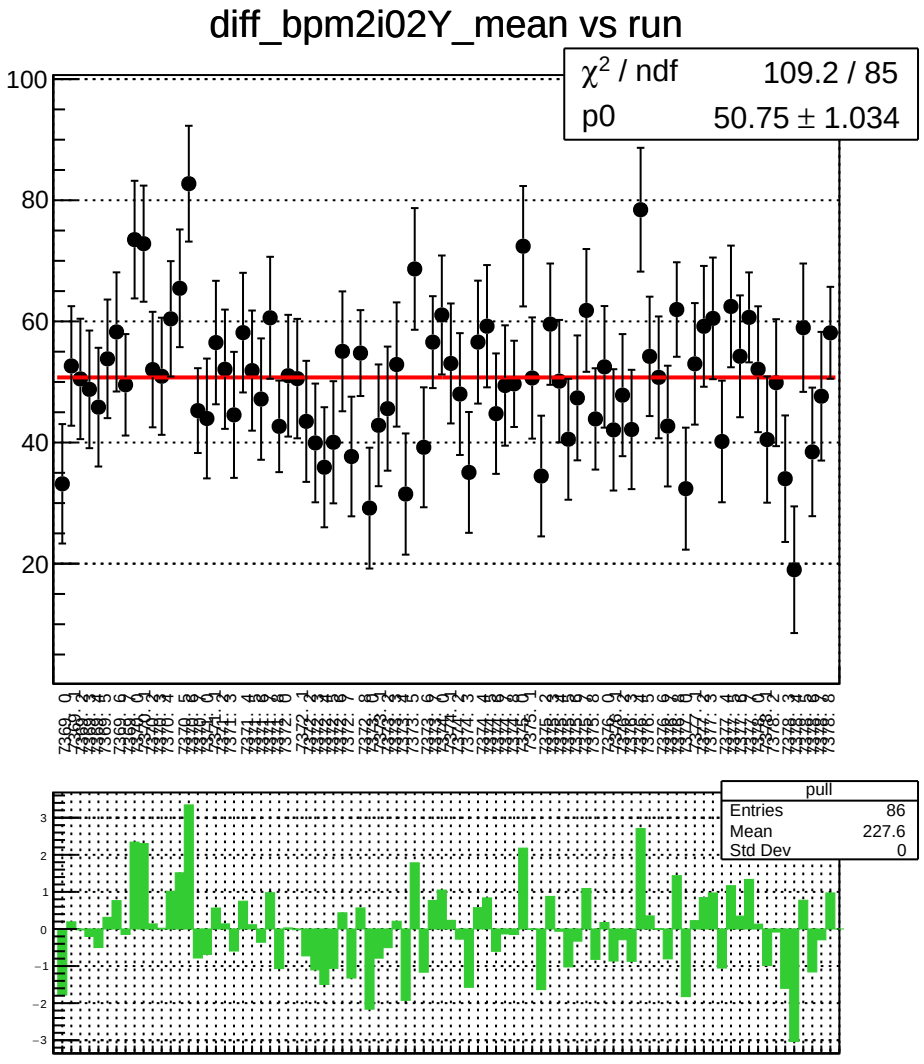

pull1D
Entries 86
Mean −0.005485
Std Dev 1.039

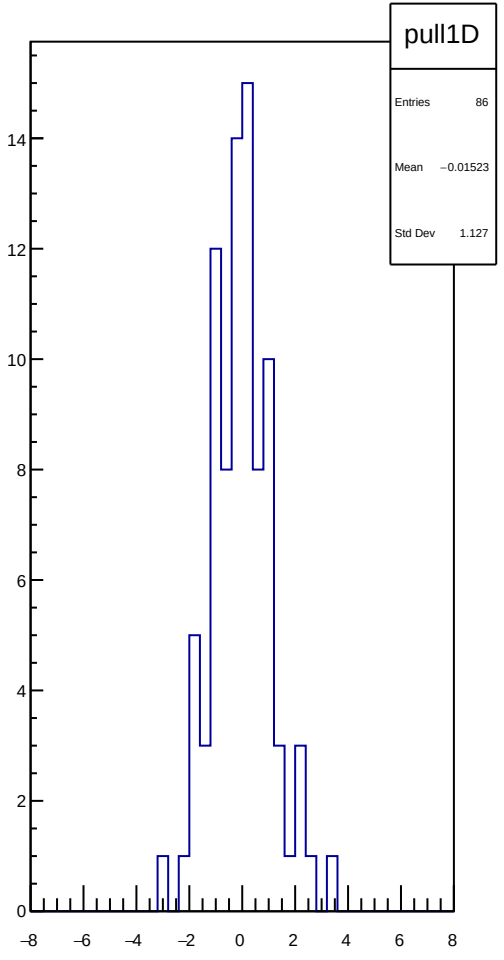

diff_bpm2i01Y_rms vs run
χ² / ndf 997.8 / 85
p0 930.4 ± 0.7172
1000
980
960
940
920
900
880
860

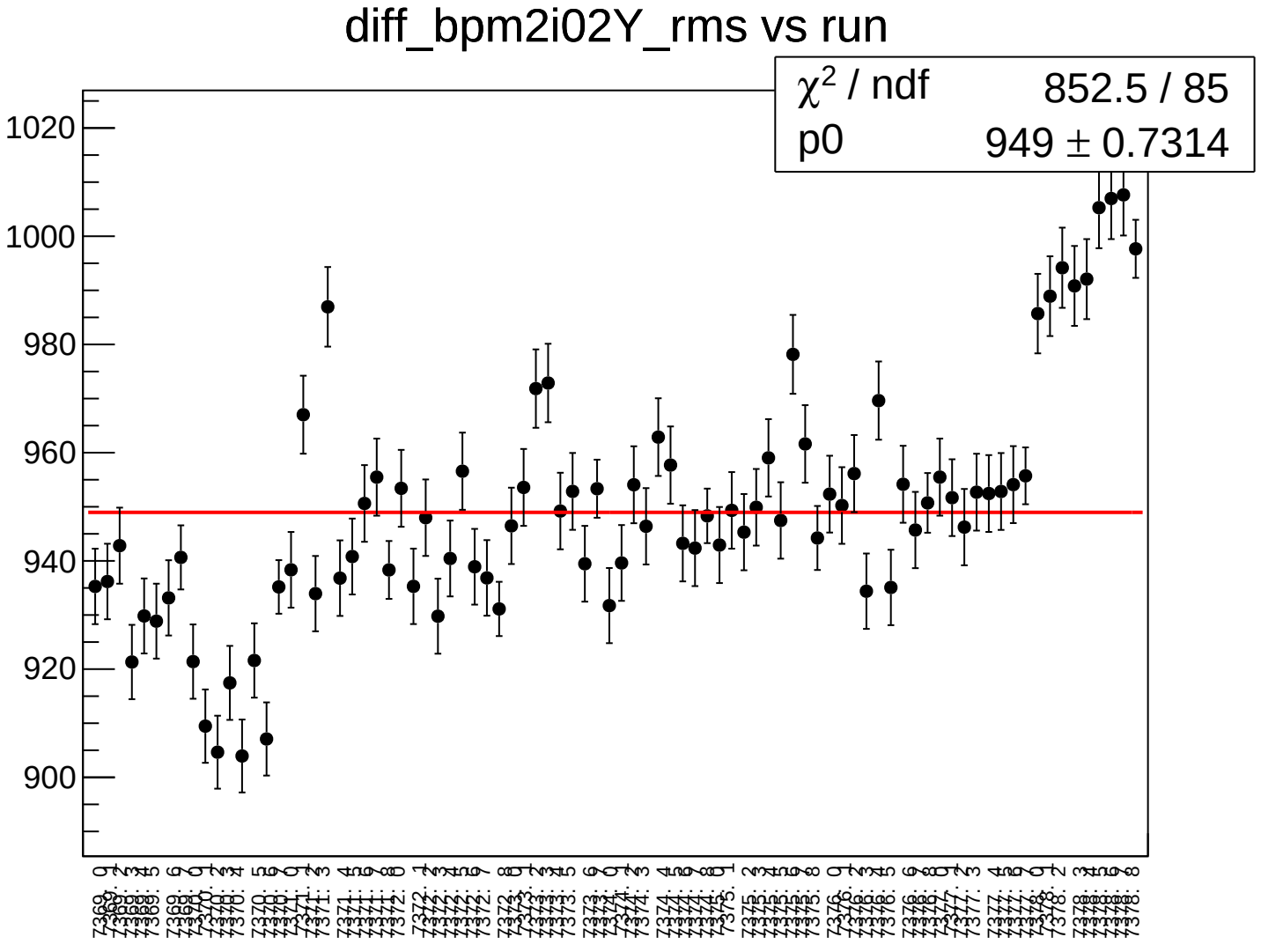

diff_bpm2i02X_mean vs run
χ² / ndf 83.83 / 85
p0 −19.55 ± 1.009
pull
Entries 86
Mean −289.2
Std Dev 0

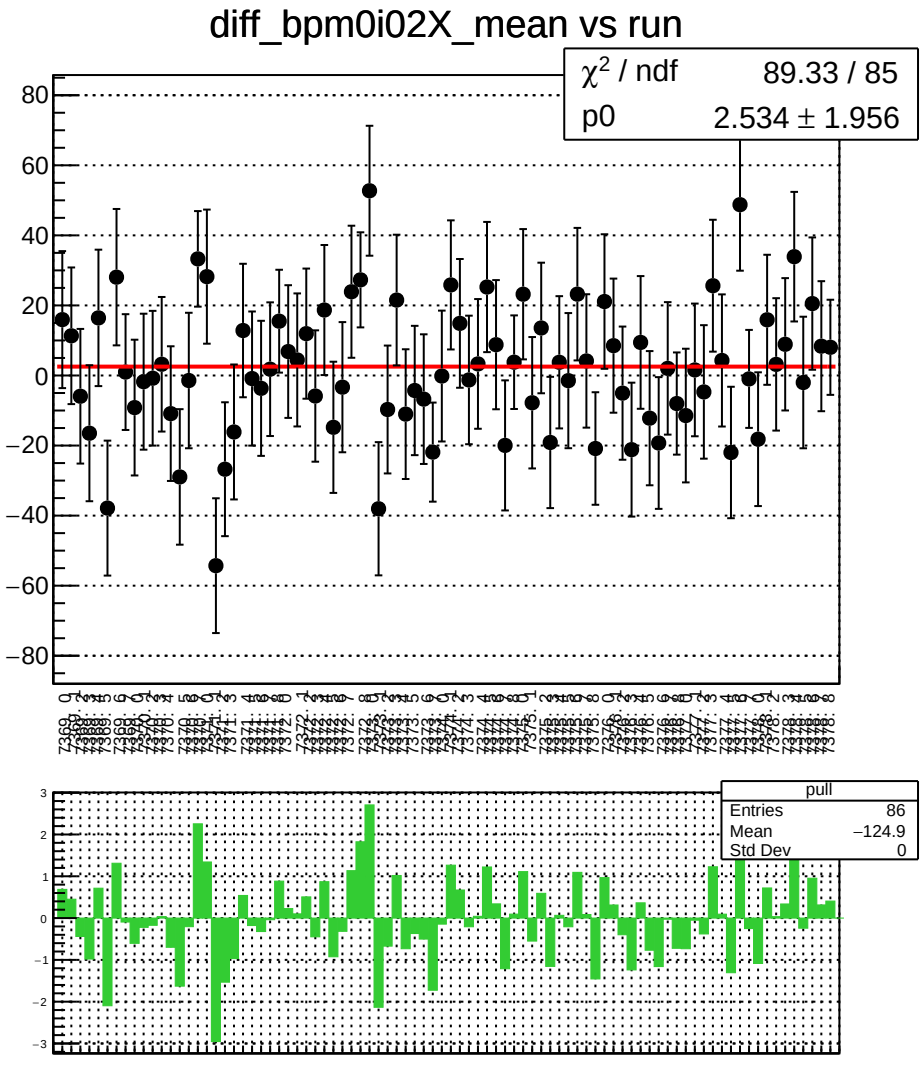

pull1D
Entries 86
Mean 0.004875
Std Dev 0.9873

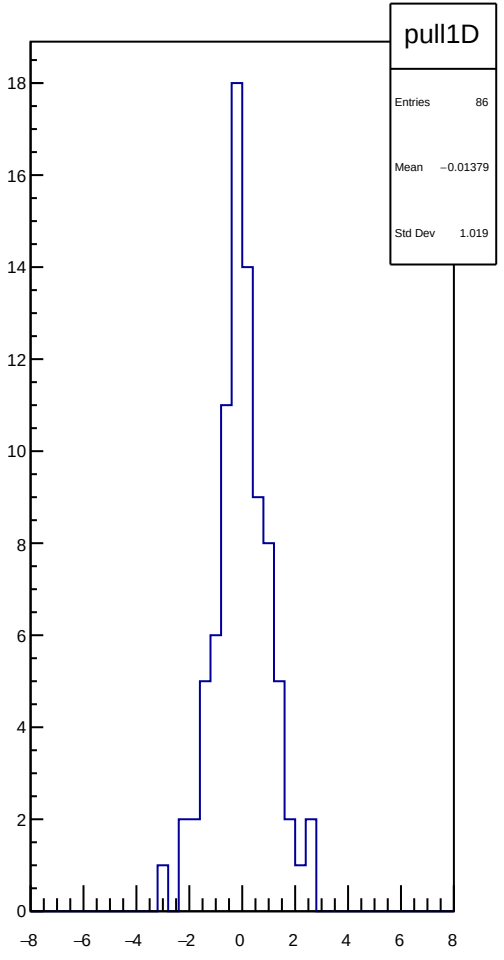

diff_bpm2i02X_rms vs run
χ² / ndf 848.9 / 85
p0 925.4 ± 0.7133
1000
980
960
940
920
900
880
860

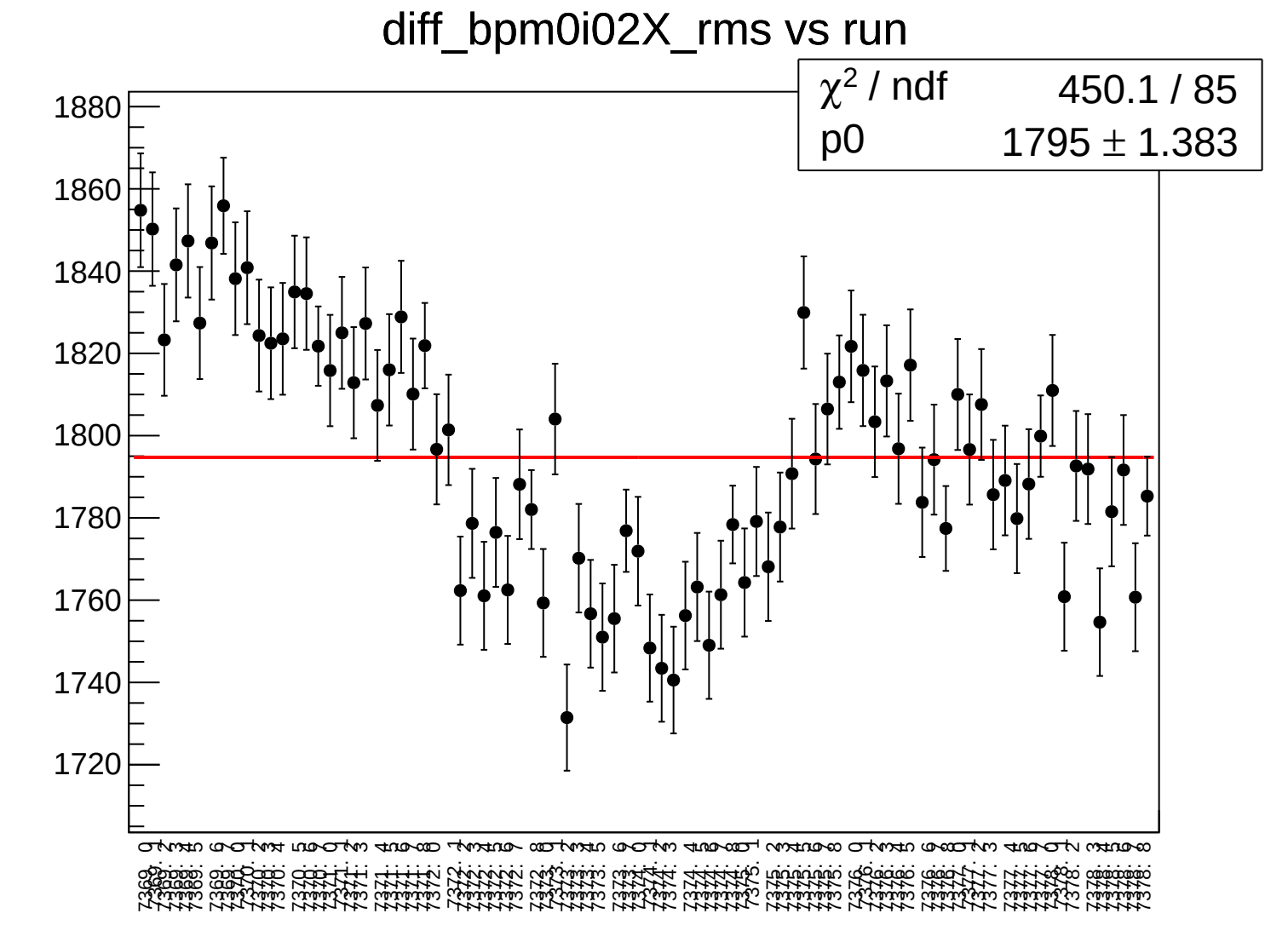

diff_bpm2i02Y_mean vs run
χ^2 / ndf 109.2 / 85
p0 50.75 ± 1.034
pull
Entries 86
Mean 227.6
Std Dev 0

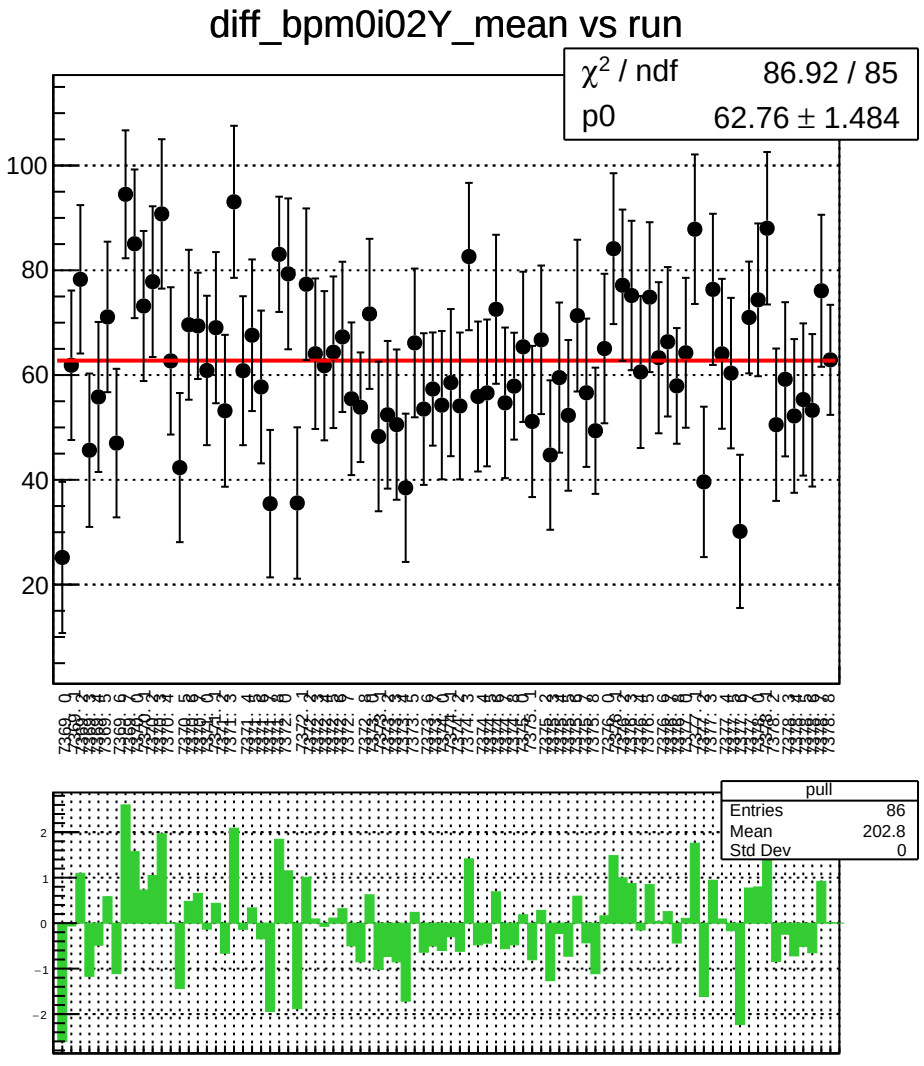

pull1D
Entries 86
Mean −0.01523
Std Dev 1.127

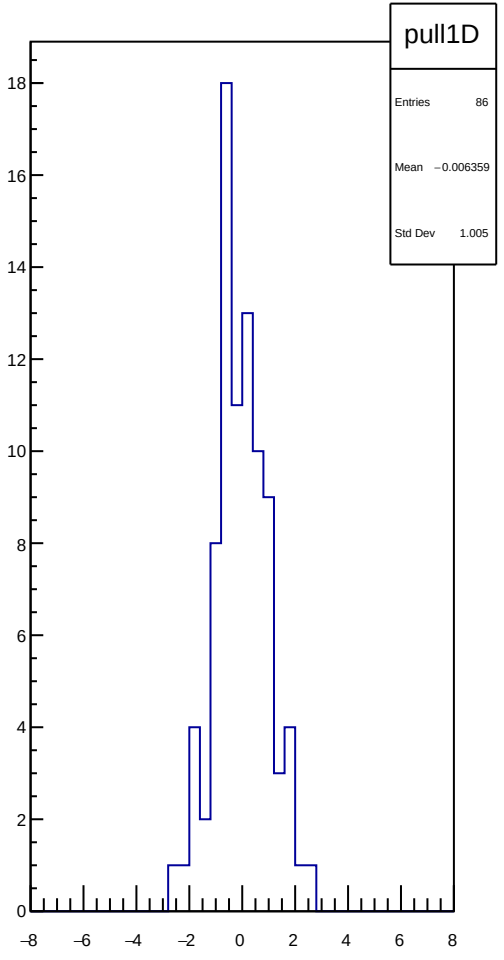

diff_bpm2i02Y_rms vs run
χ² / ndf 852.5 / 85
p0 949 ± 0.7314
1020
1000
980
960
940
920
900

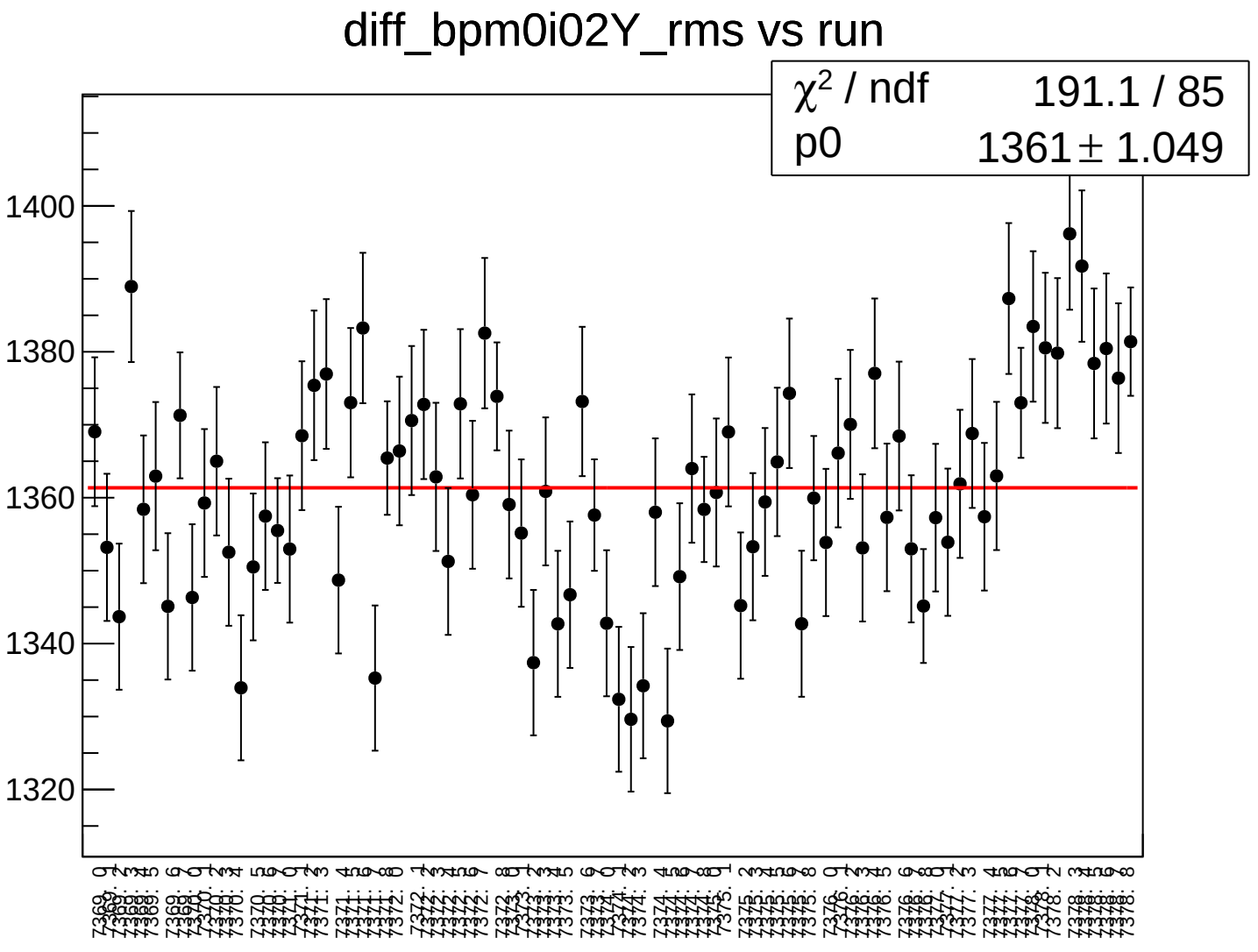

diff_bpm0i02X_mean vs run
χ^2 / ndf 89.33 / 85
p0 2.534 ± 1.956
pull
Entries 86
Mean −124.9
Std Dev 0

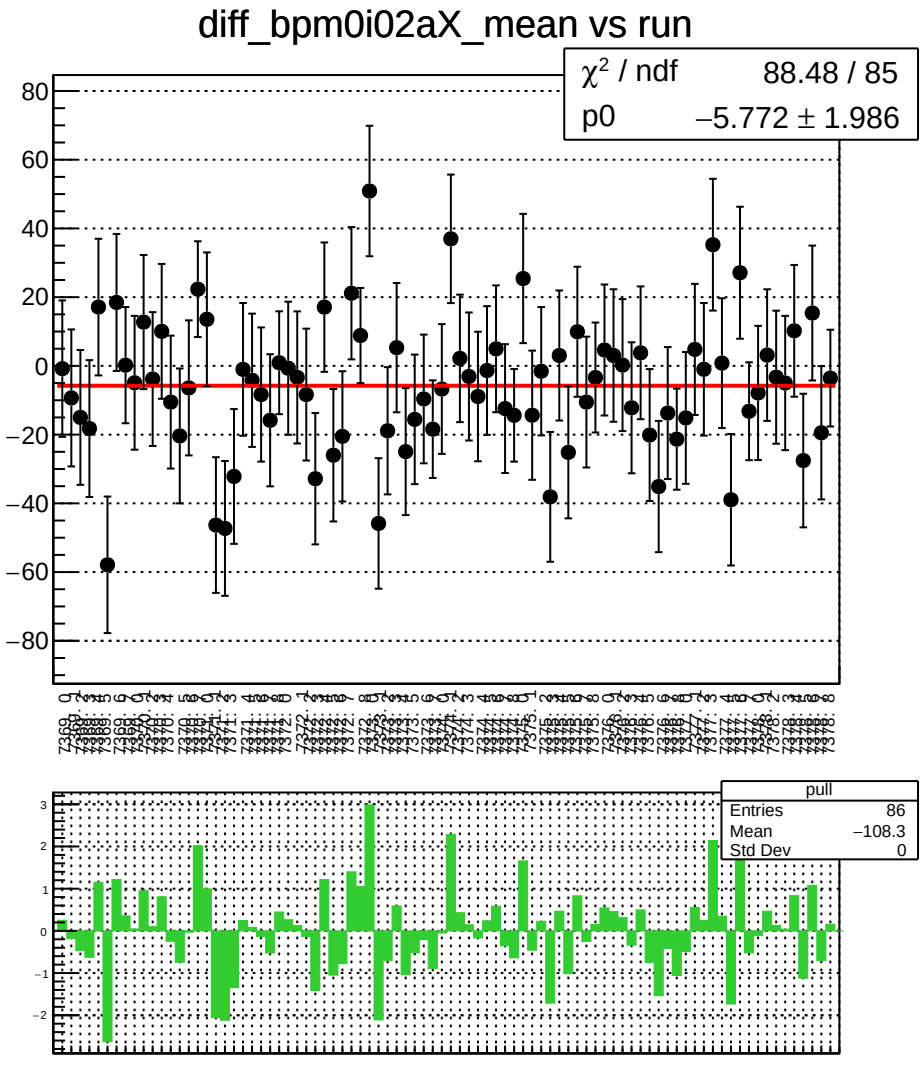

pull1D
Entries 86
Mean −0.01379
Std Dev 1.019

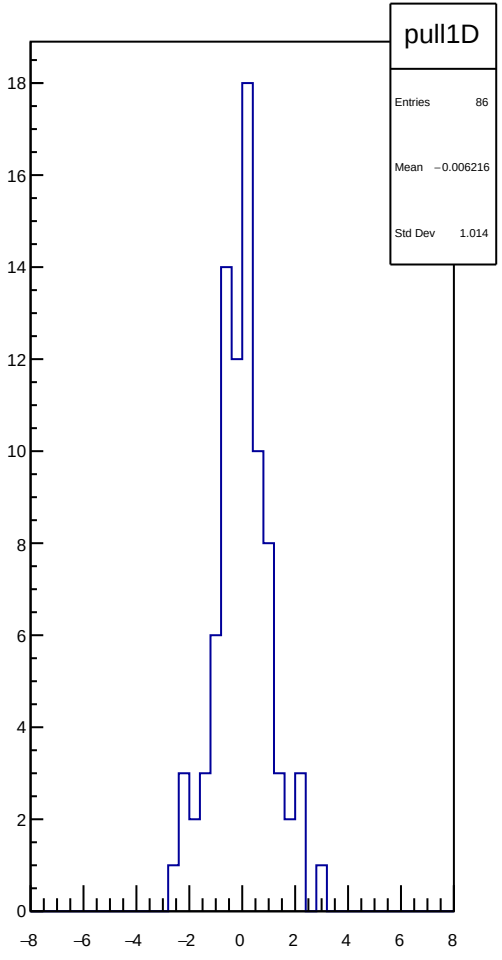

diff_bpm0i02X_rms vs run
χ² / ndf 450.1 / 85
p0 1795 ± 1.383
1880
1860
1840
1820
1800
1780
1760
1740
1720

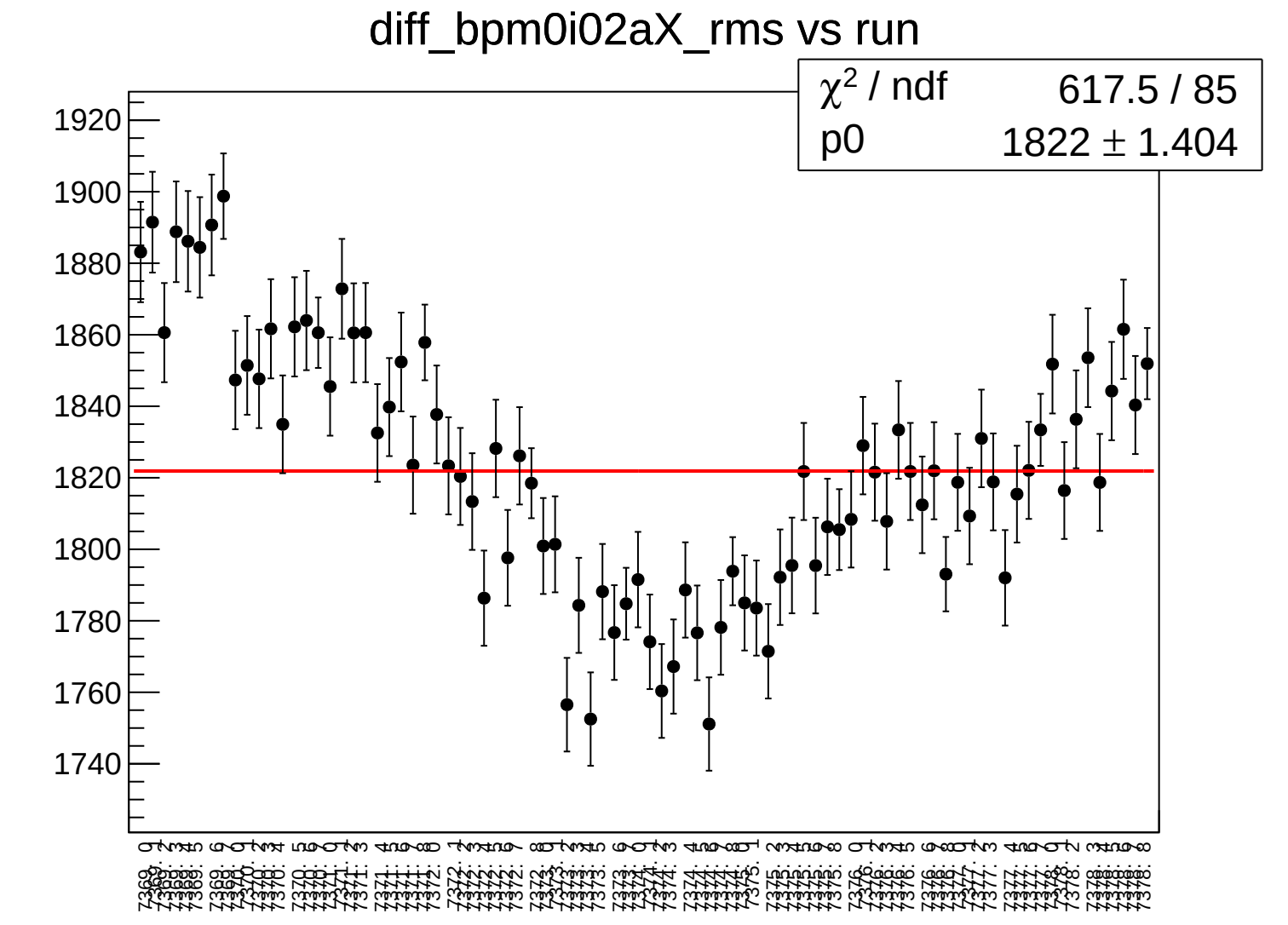

diff_bpm0i02Y_mean vs run
χ² / ndf 86.92 / 85
p0 62.76 ± 1.484
pull
Entries 86
Mean 202.8
Std Dev 0

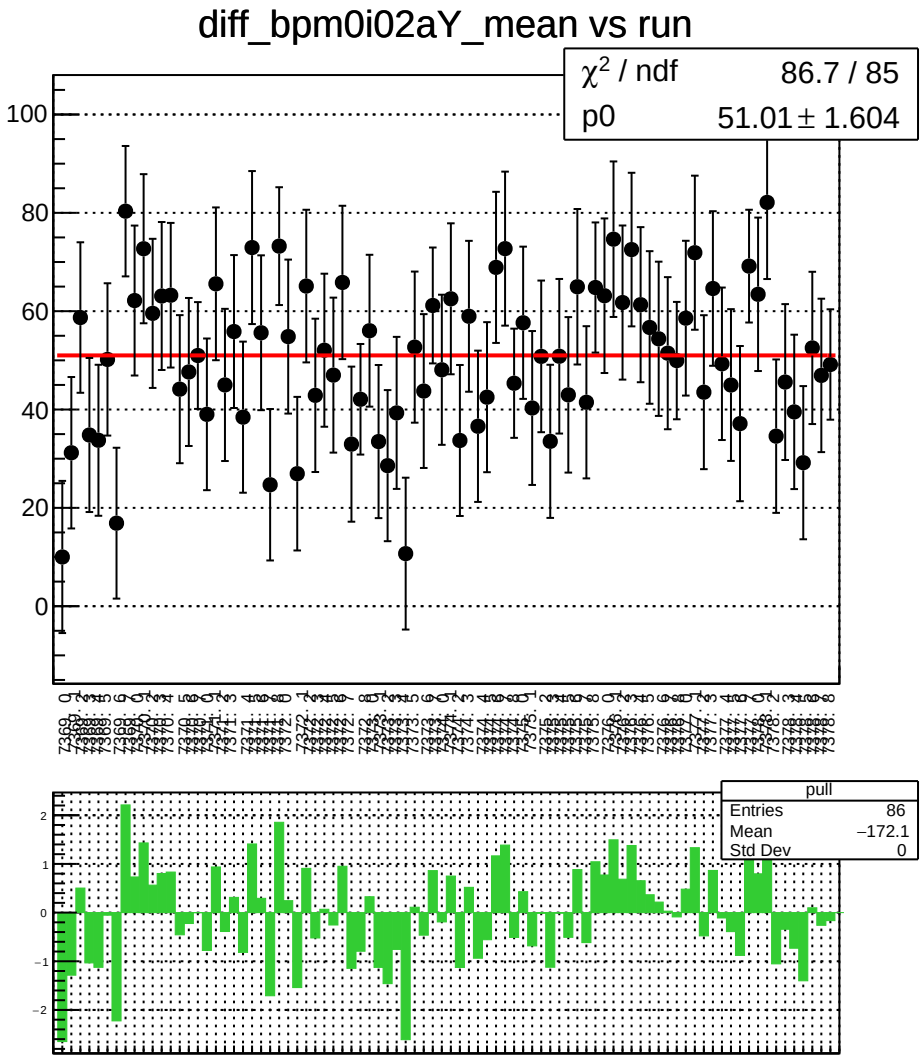

pull1D
Entries 86
Mean −0.006359
Std Dev 1.005

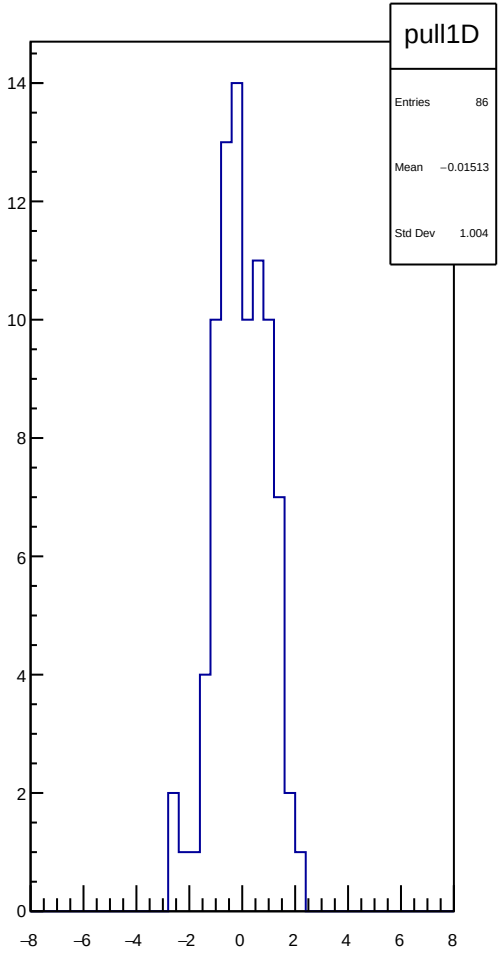

diff_bpm0i02Y_rms vs run
χ² / ndf 191.1 / 85
p0 1361 ± 1.049
1400
1380
1360
1340
1320

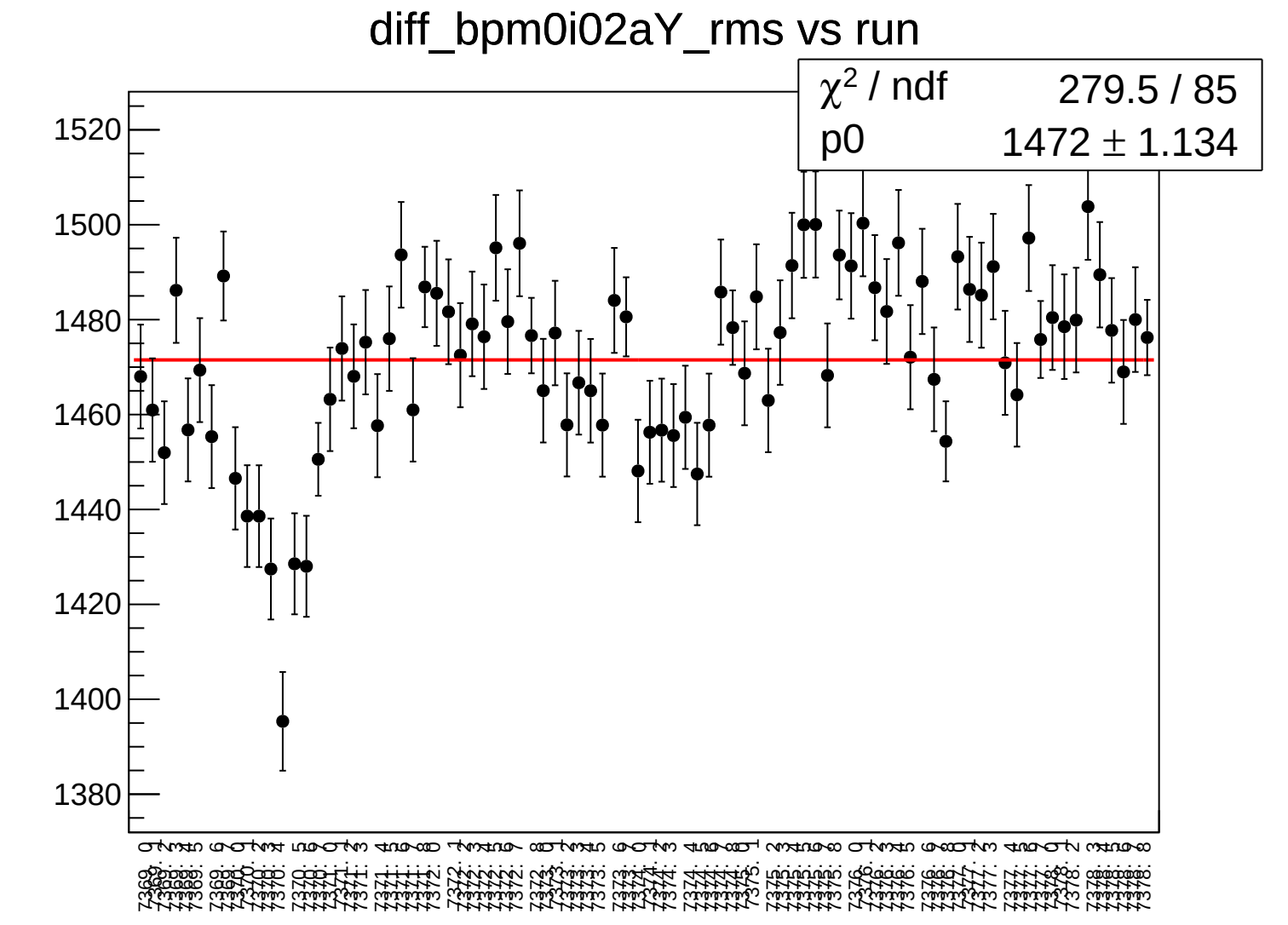

diff_bpm0i02aX_mean vs run
χ² / ndf 88.48 / 85
p0 −5.772 ± 1.986
pull
Entries 86
Mean −108.3
Std Dev 0

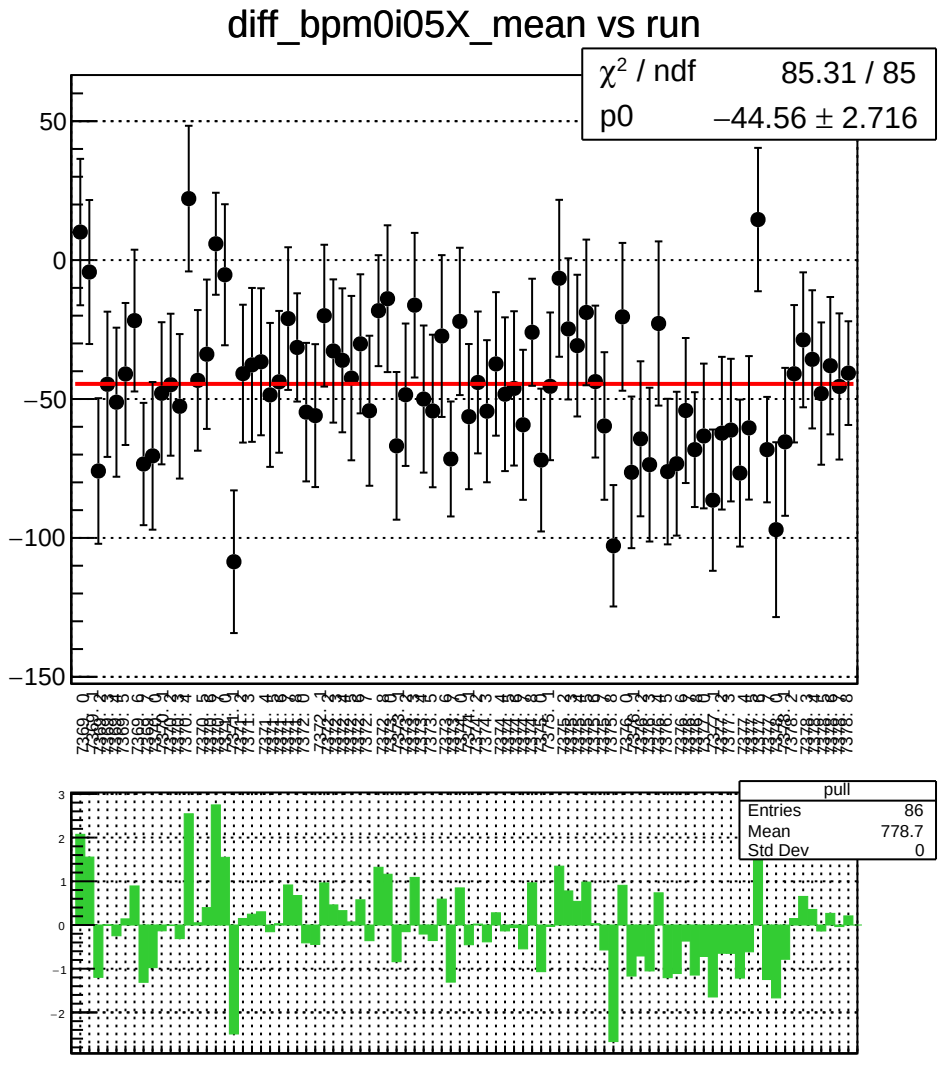

pull1D
Entries 86
Mean −0.006216
Std Dev 1.014

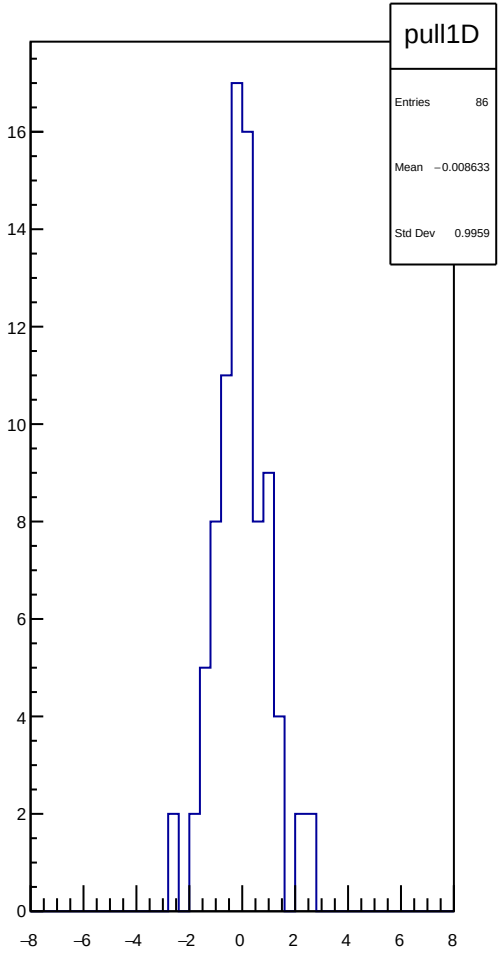

diff_bpm0i02aX_rms vs run
χ^2 / ndf 617.5 / 85
p0 1822 ± 1.404
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

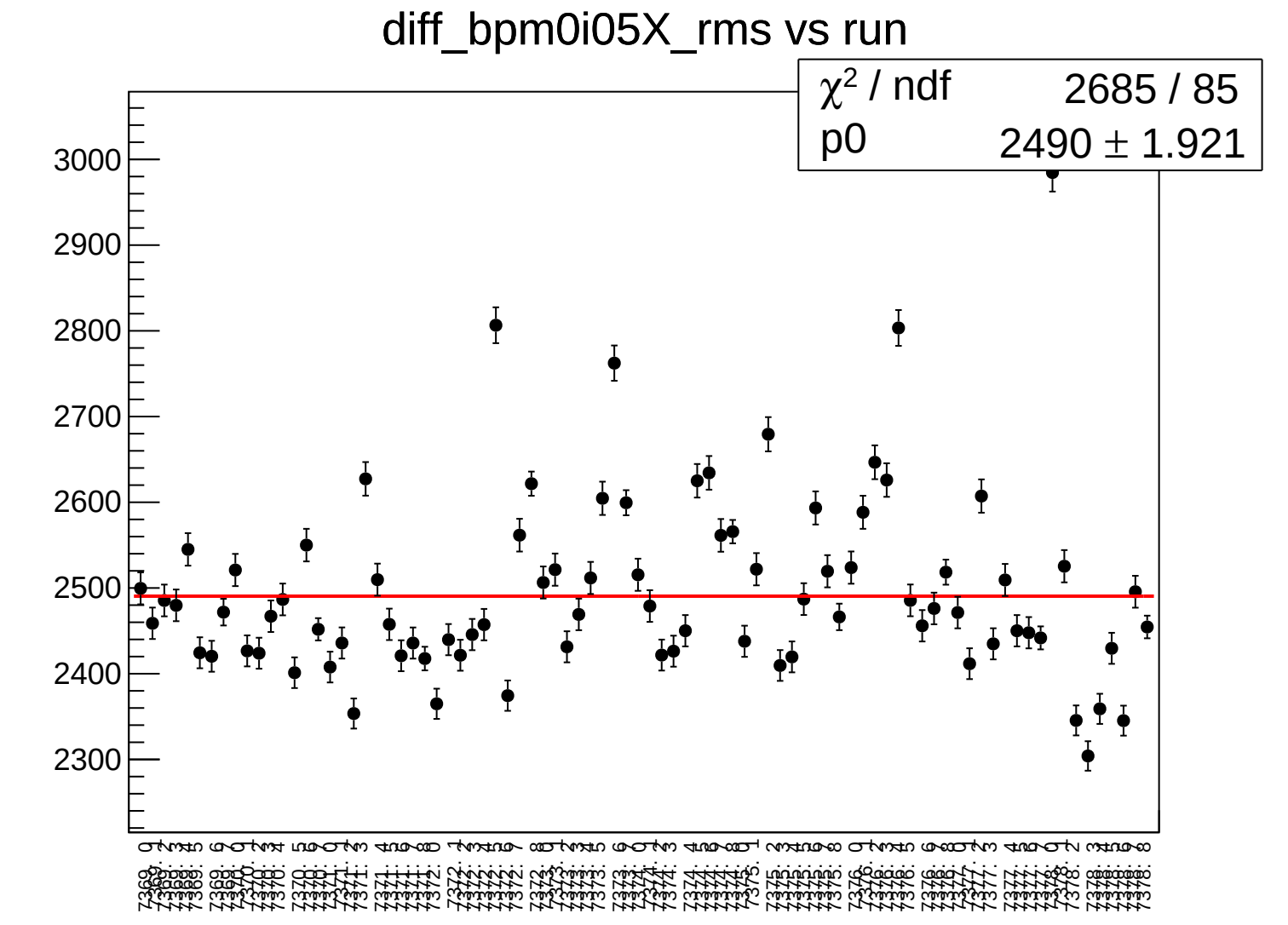

diff_bpm0i02aY_mean vs run
χ^2 / ndf 86.7 / 85
p0 51.01 ± 1.604
pull
Entries 86
Mean −172.1
Std Dev 0

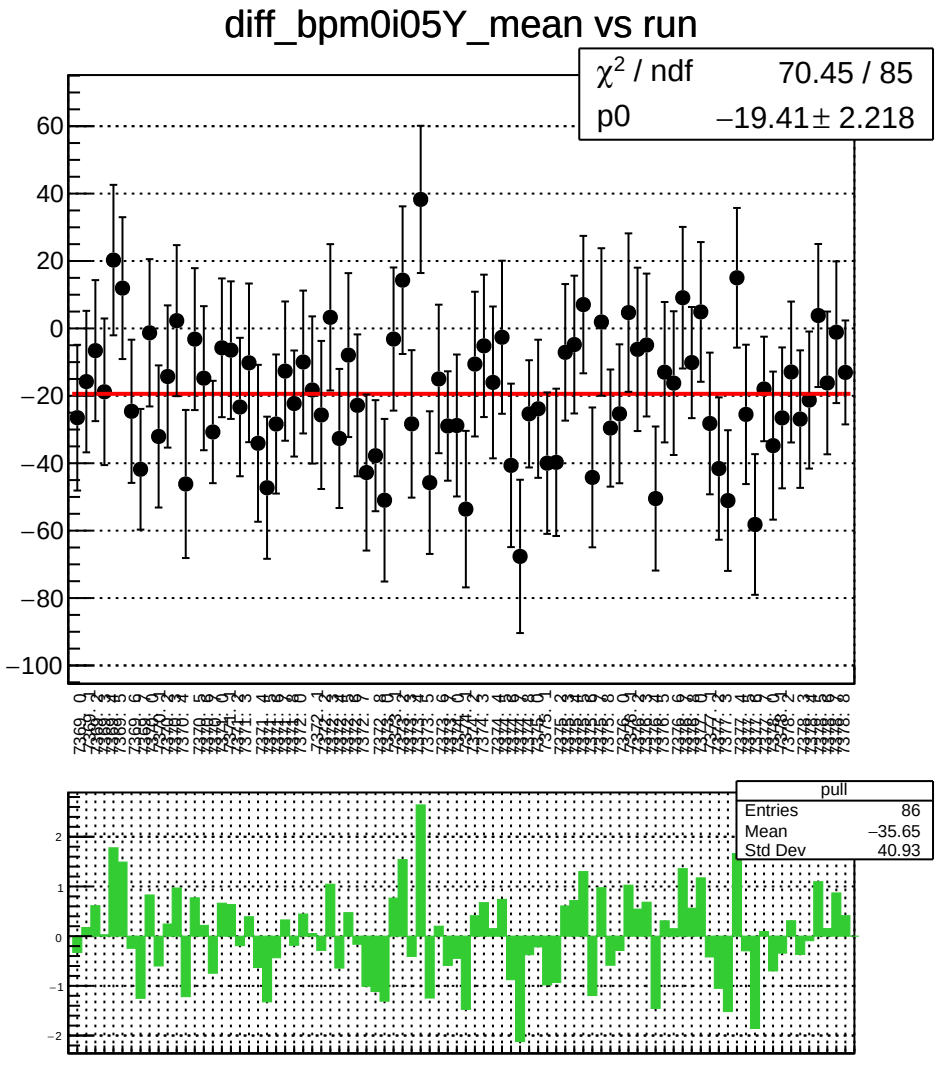

pull1D
Entries 86
Mean −0.01513
Std Dev 1.004

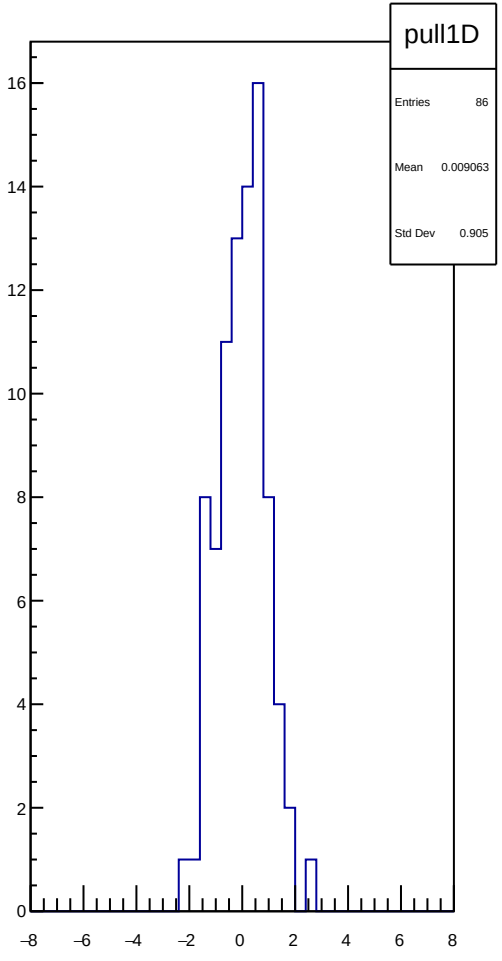

diff_bpm0i02aY_rms vs run
χ^2 / ndf 279.5 / 85
p0 1472 ± 1.134
1520
1500
1480
1460
1440
1420
1400
1380

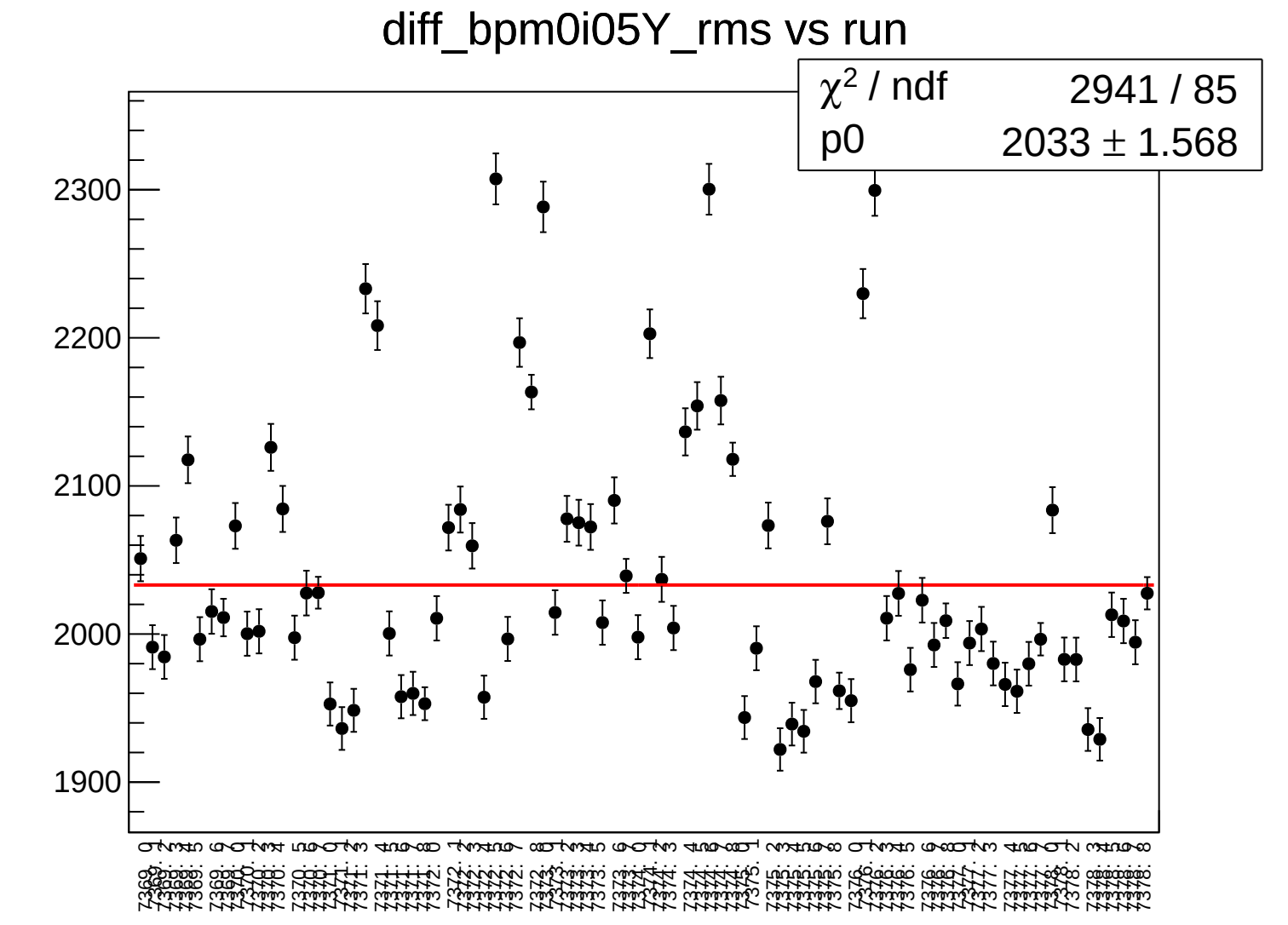

diff_bpm0i05X_mean vs run
χ² / ndf 85.31 / 85
p0 −44.56 ± 2.716
pull
Entries 86
Mean 778.7
Std Dev 0

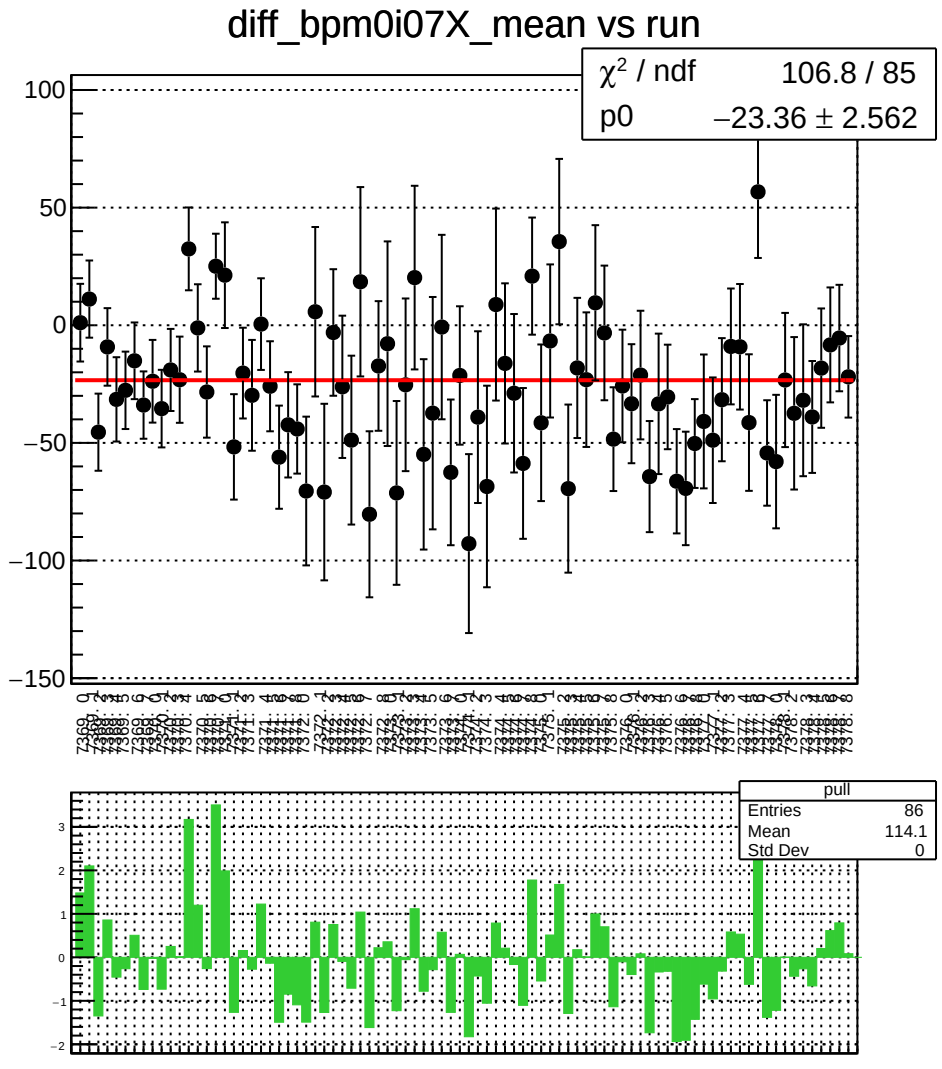

pull1D
Entries 86
Mean −0.008633
Std Dev 0.9959

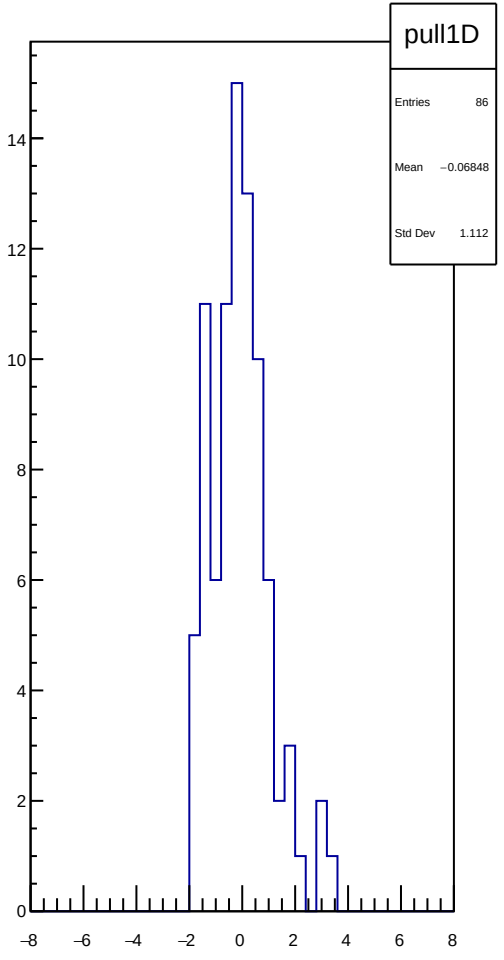

diff_bpm0i05X_rms vs run
χ² / ndf 2685 / 85
p0 2490 ± 1.921
3000
2900
2800
2700
2600
2500
2400
2300

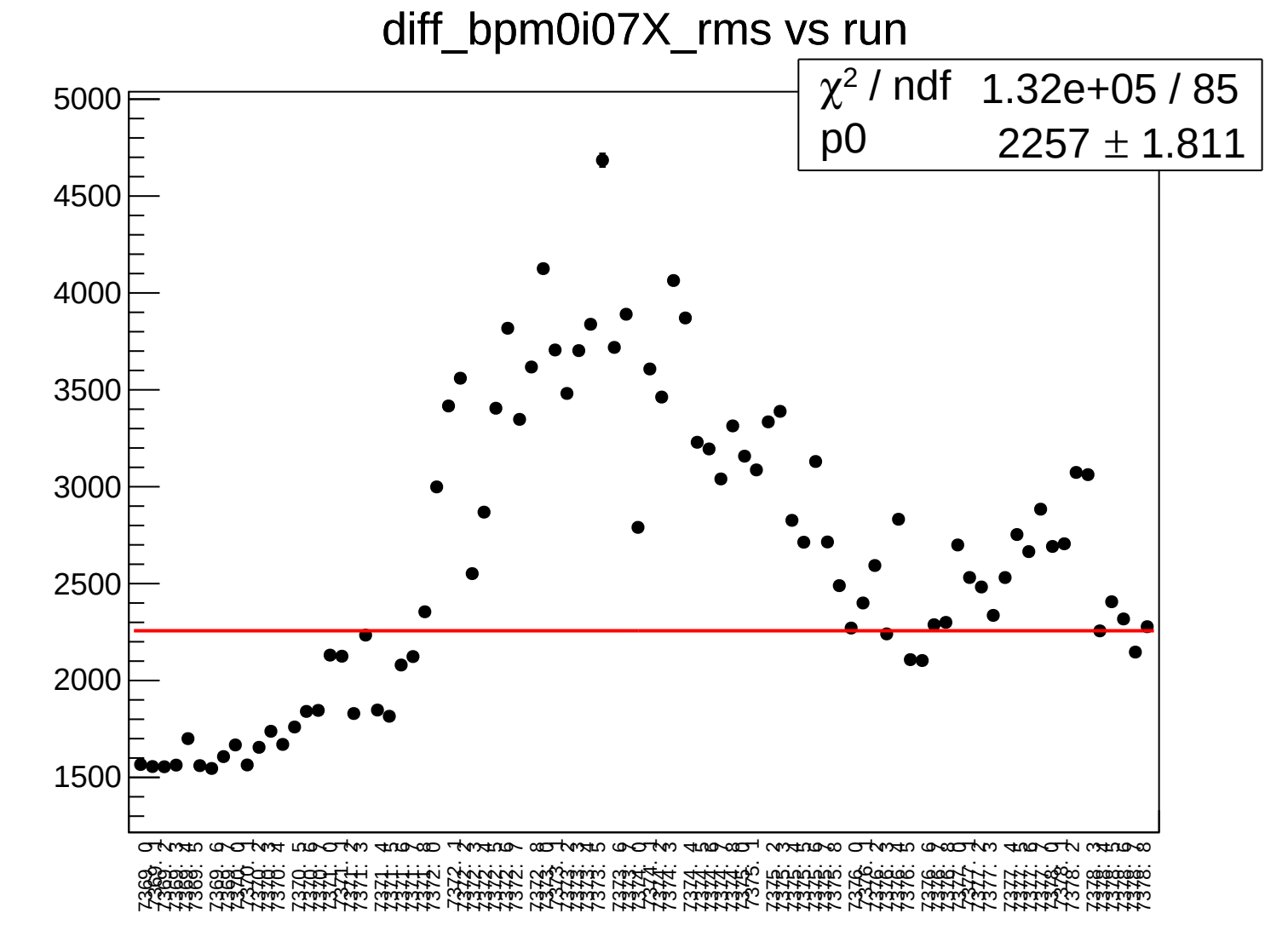

diff_bpm0i05Y_mean vs run
χ² / ndf 70.45 / 85
p0 −19.41 ± 2.218
pull
Entries 86
Mean −35.65
Std Dev 40.93

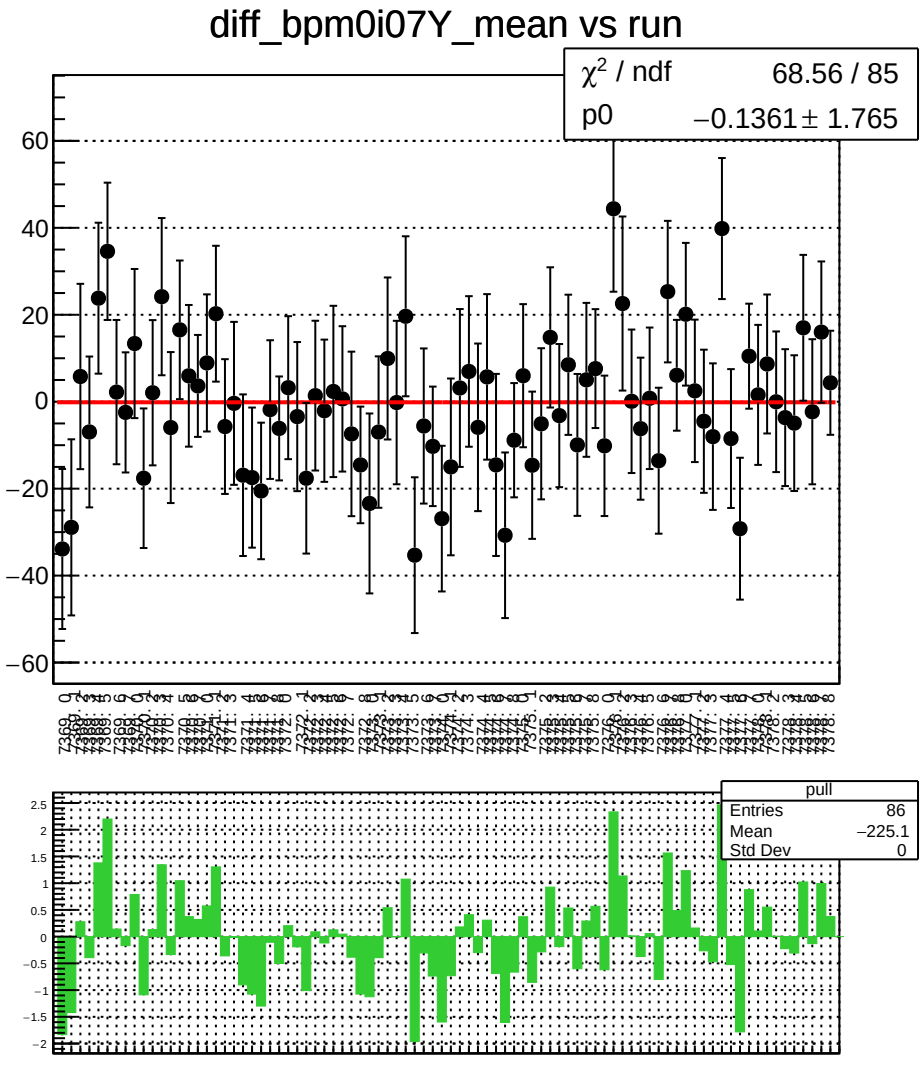

pull1D
Entries 86
Mean 0.009063
Std Dev 0.905

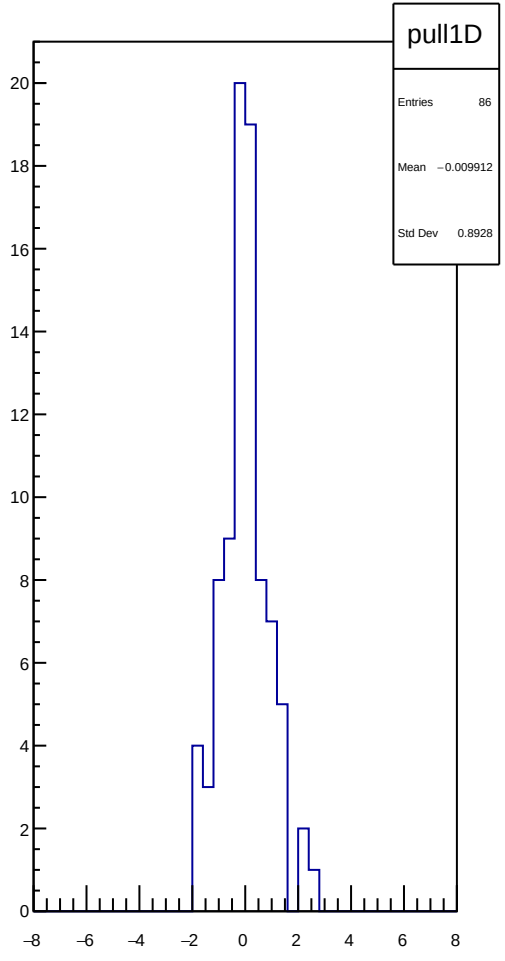

diff_bpm0i05Y_rms vs run
χ² / ndf 2941 / 85
p0 2033 ± 1.568
2300
2200
2100
2000
1900

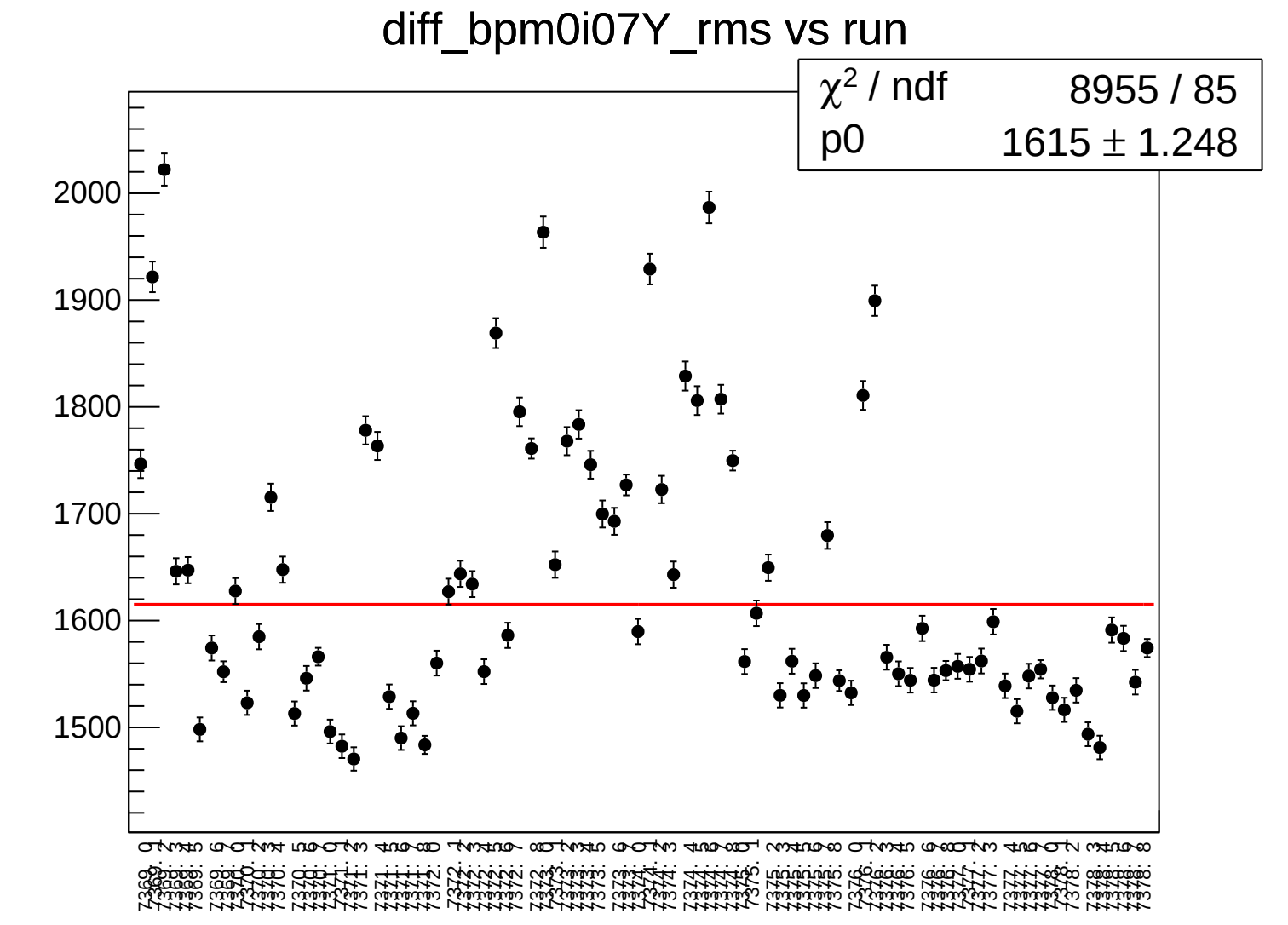

diff_bpm0i07X_mean vs run
χ² / ndf 106.8 / 85
p0 −23.36 ± 2.562
pull
Entries 86
Mean 114.1
Std Dev 0

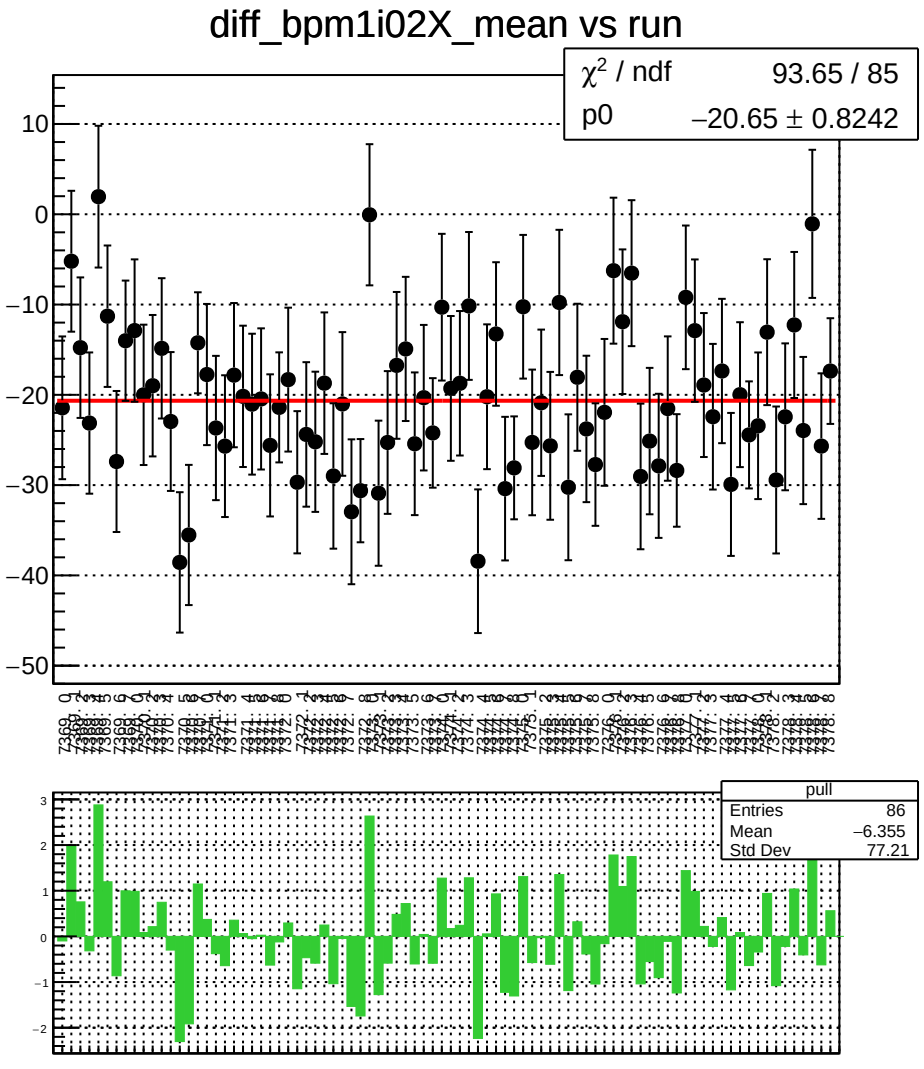

pull1D
Entries 86
Mean −0.06848
Std Dev 1.112

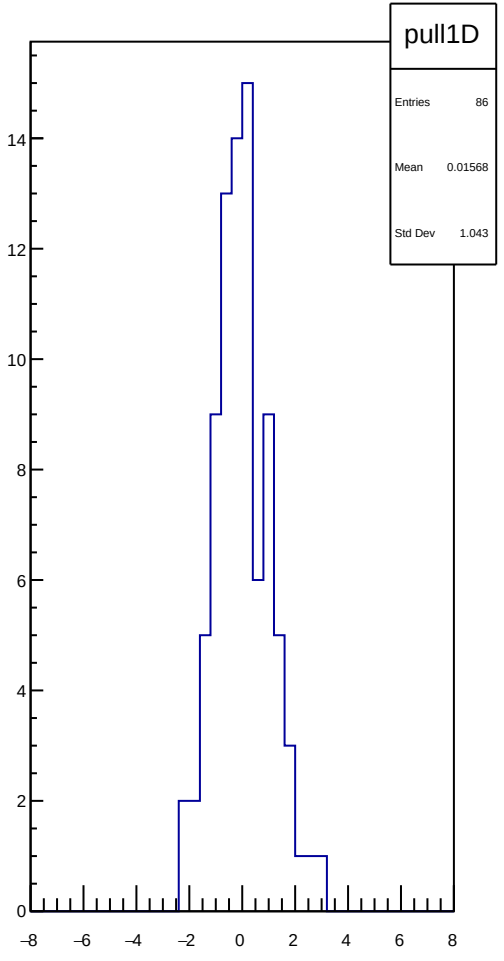

diff_bpm0i07X_rms vs run
χ² / ndf 1.32e+05 / 85
p0 2257 ± 1.811
5000
4500
4000
3500
3000
2500
2000
1500

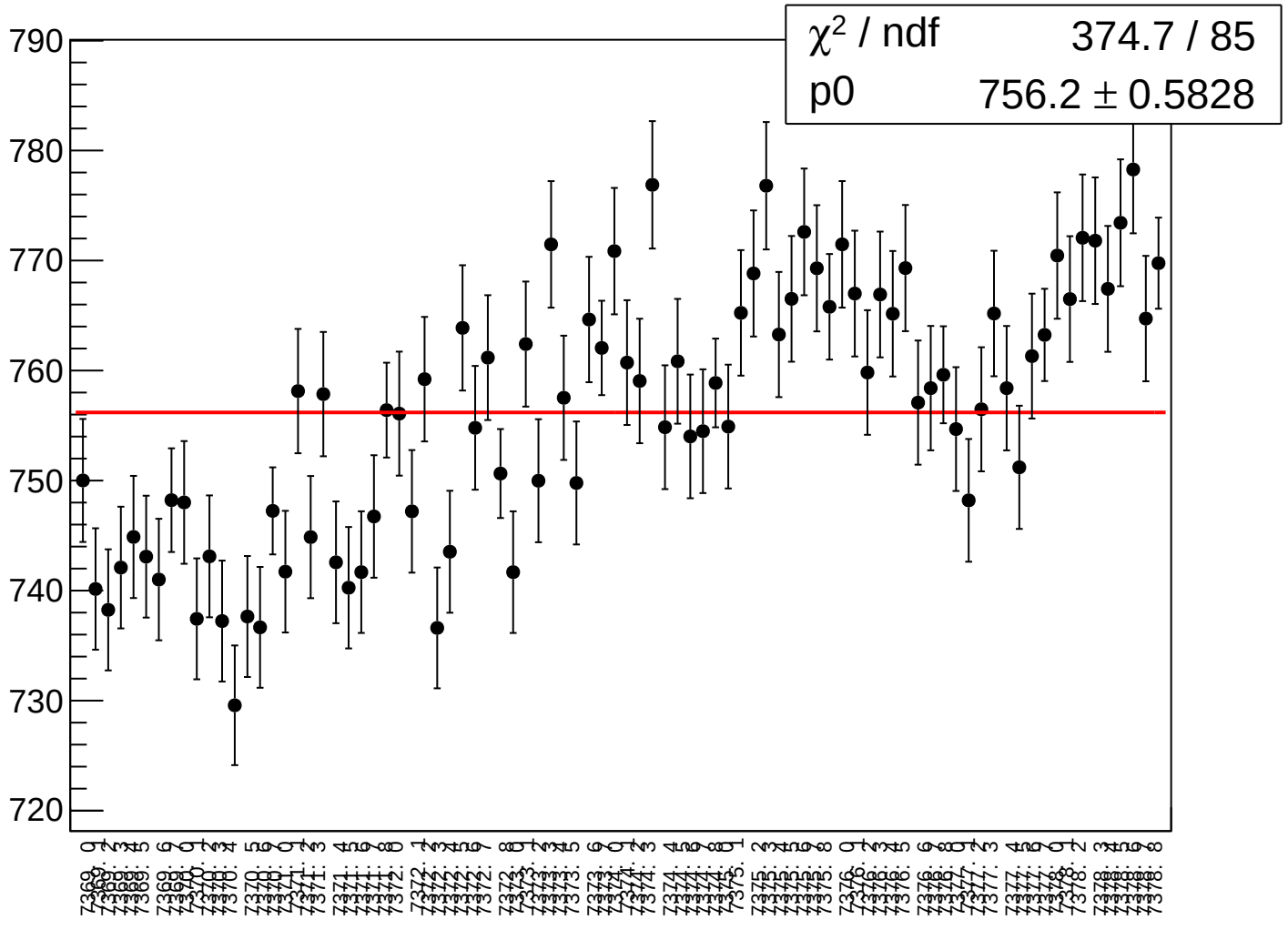

diff_bpm0i07Y_mean vs run
χ² / ndf 68.56 / 85
p0 −0.1361 ± 1.765
pull
Entries 86
Mean −225.1
Std Dev 0

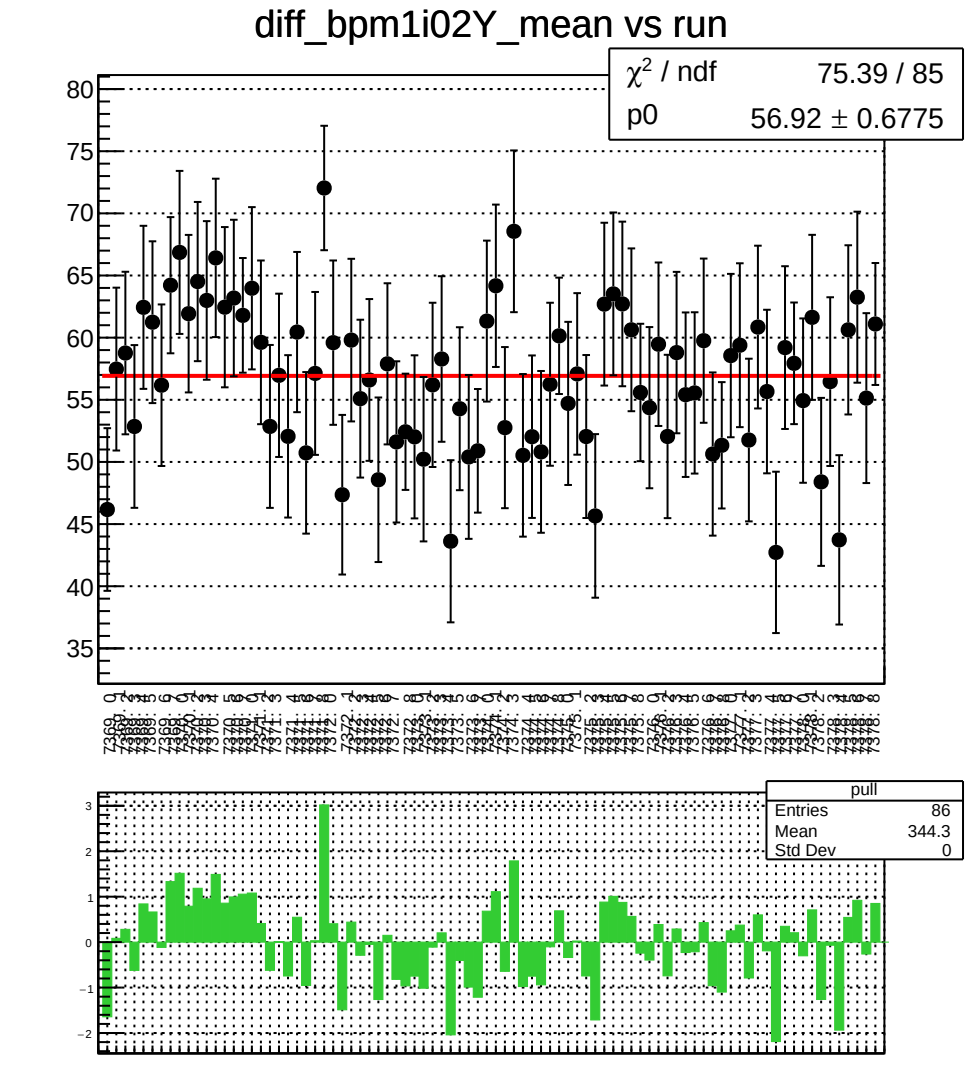

pull1D
Entries 86
Mean −0.009912
Std Dev 0.8928

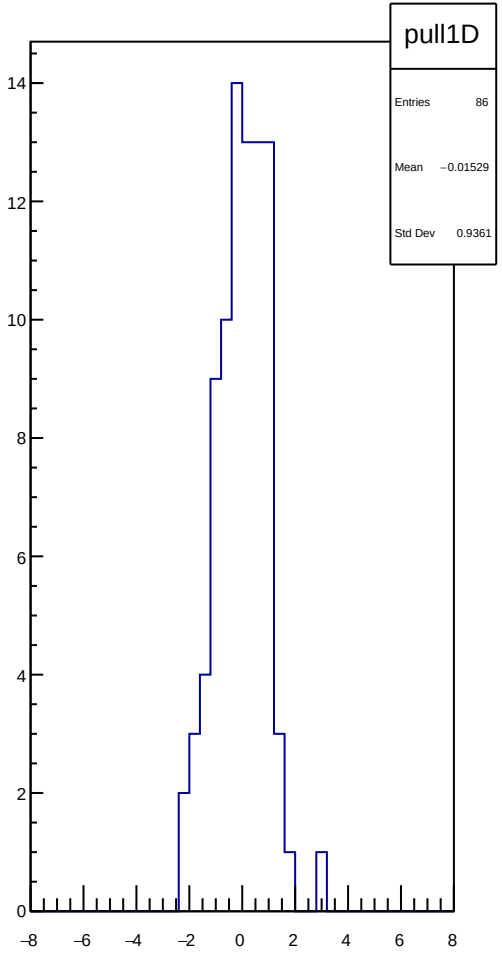

diff_bpm0i07Y_rms vs run
χ² / ndf 8955 / 85
p0 1615 ± 1.248
2000
1900
1800
1700
1600
1500

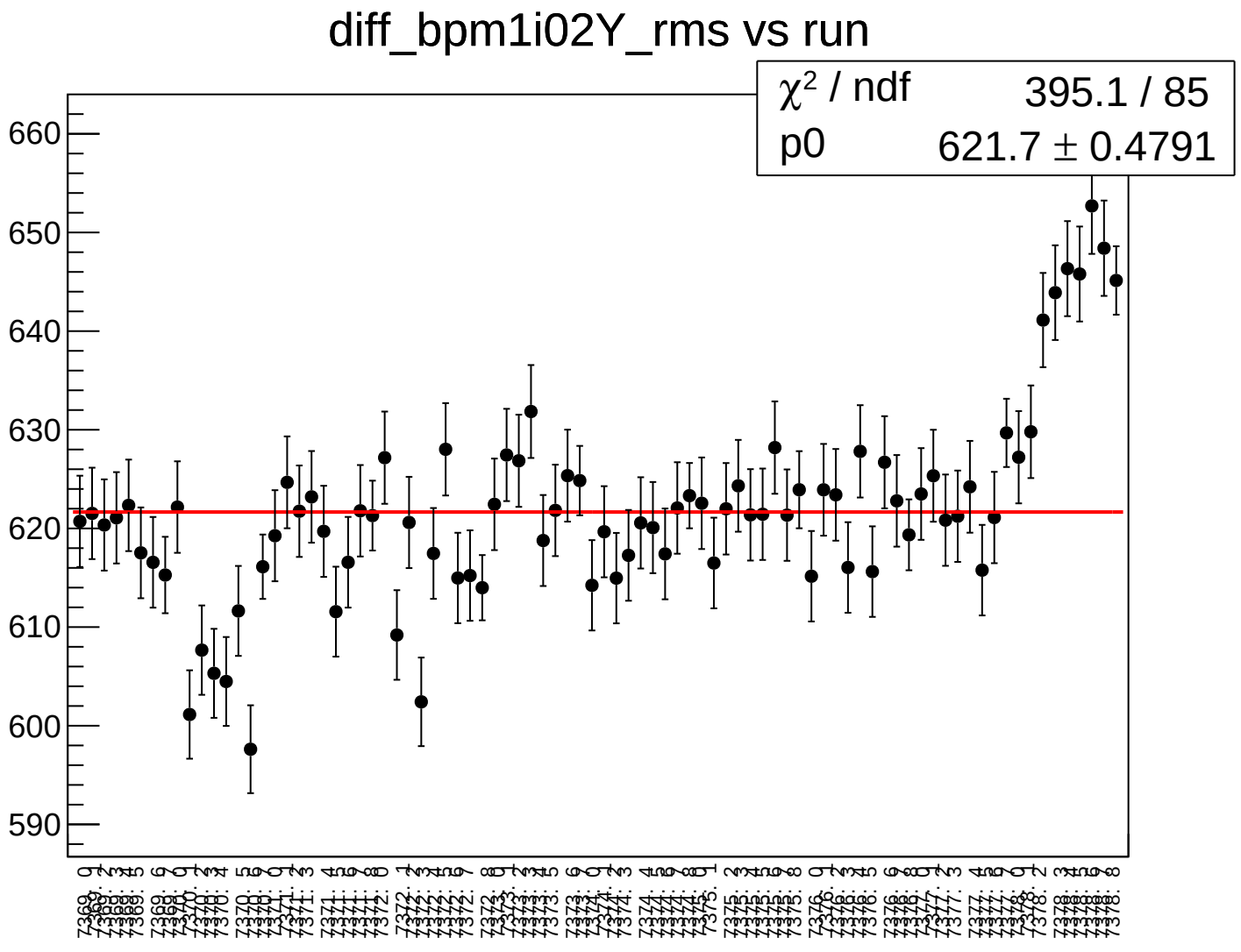

diff_bpm1i02X_mean vs run
χ² / ndf 93.65 / 85
p0 −20.65 ± 0.8242
pull
Entries 86
Mean −6.355
Std Dev 77.21

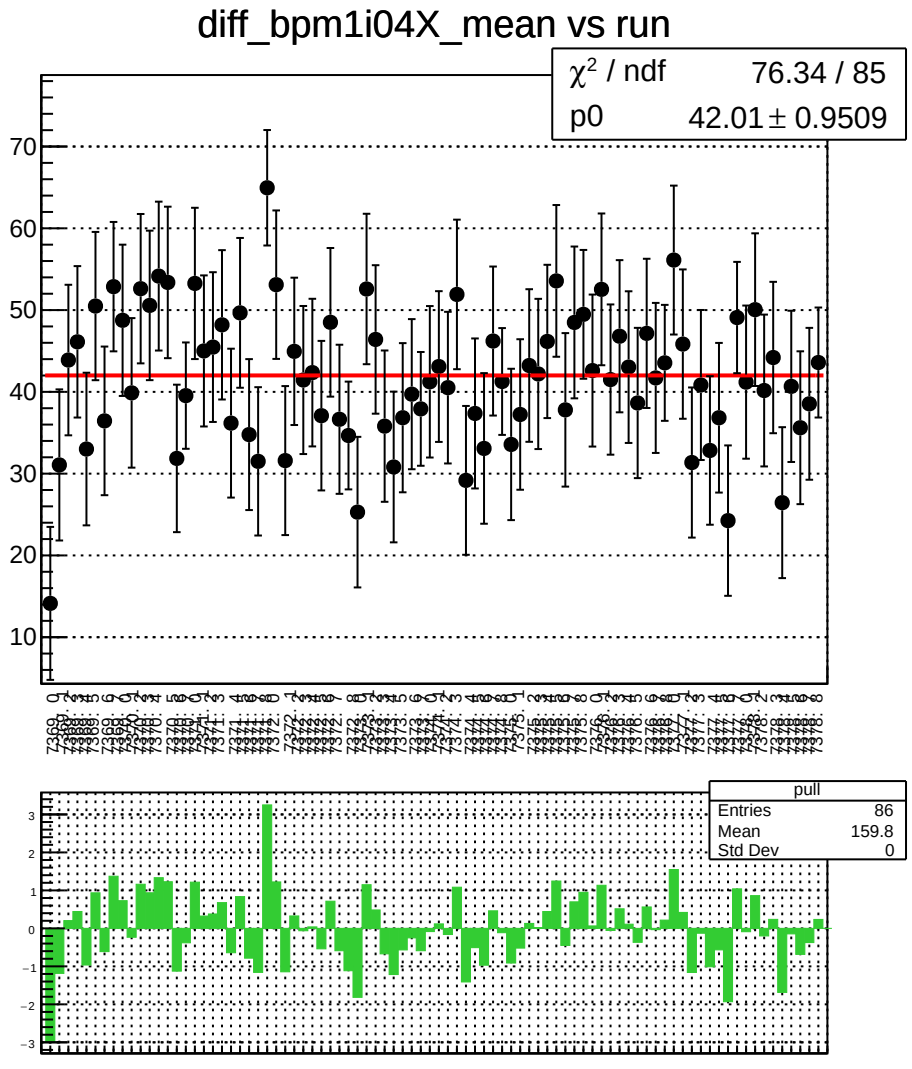

pull1D
Entries 86
Mean 0.01568
Std Dev 1.043

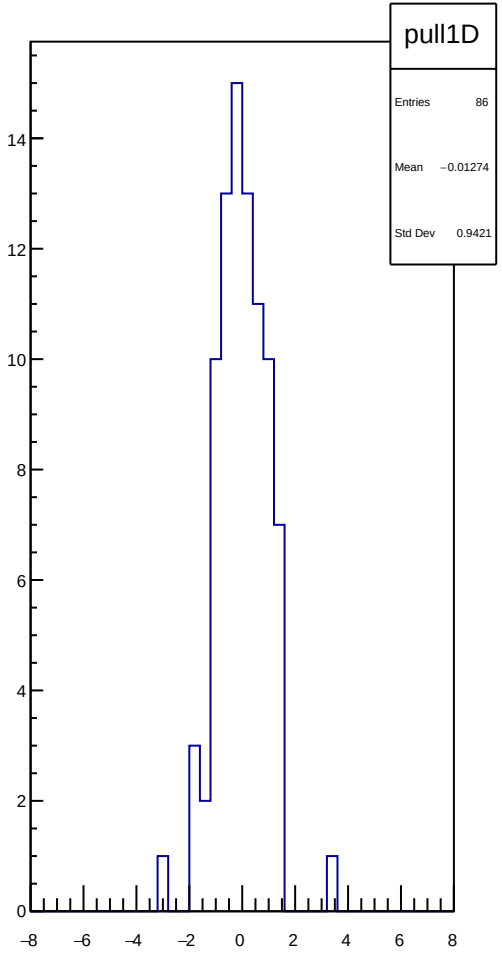

diff_bpm1i02X_rms vs run
χ² / ndf 374.7 / 85
p0 756.2 ± 0.5828
790
780
770
760
750
740
730
720

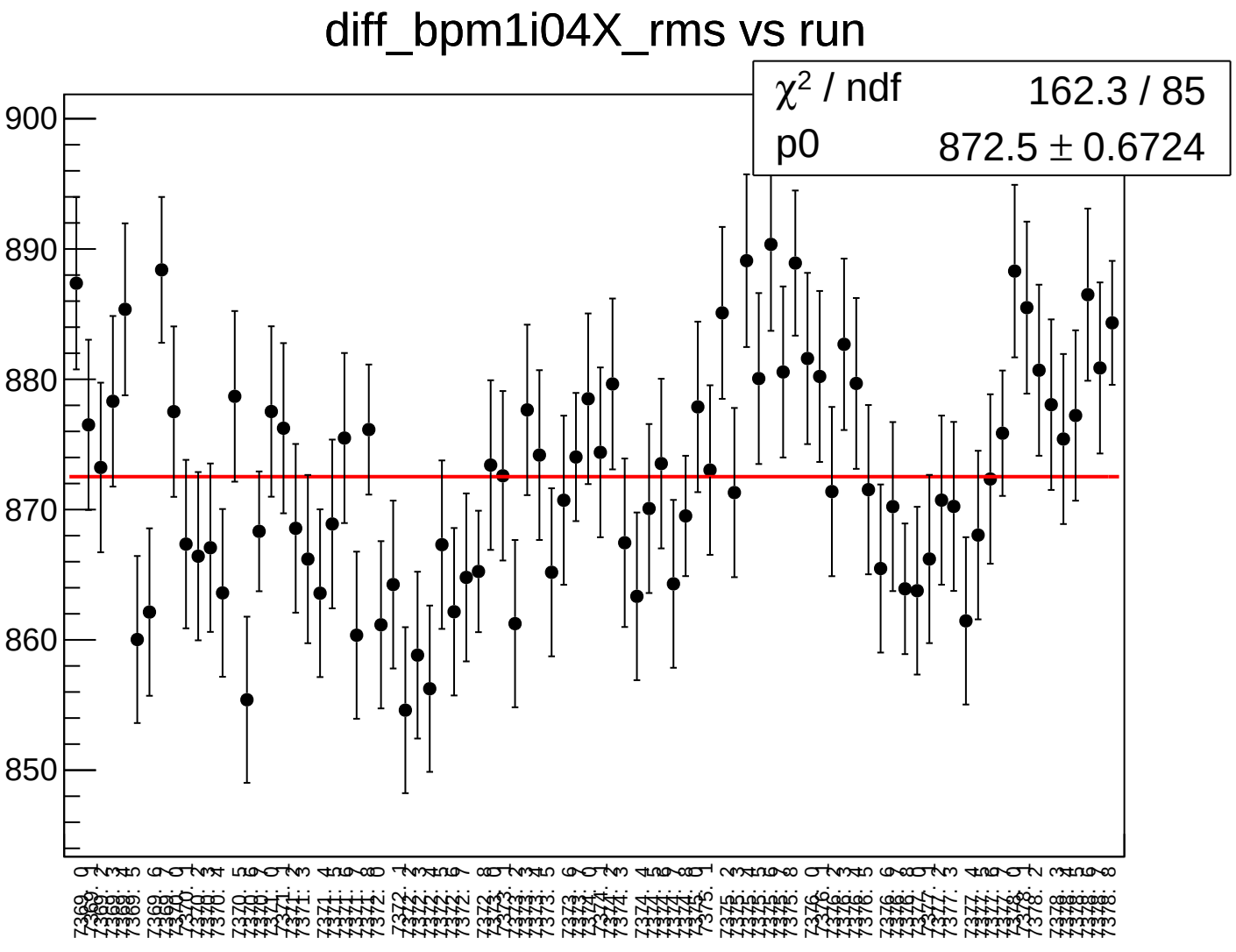

diff_bpm1i02Y_mean vs run
χ² / ndf 75.39 / 85
p0 56.92 ± 0.6775
pull
Entries 86
Mean 344.3
Std Dev 0

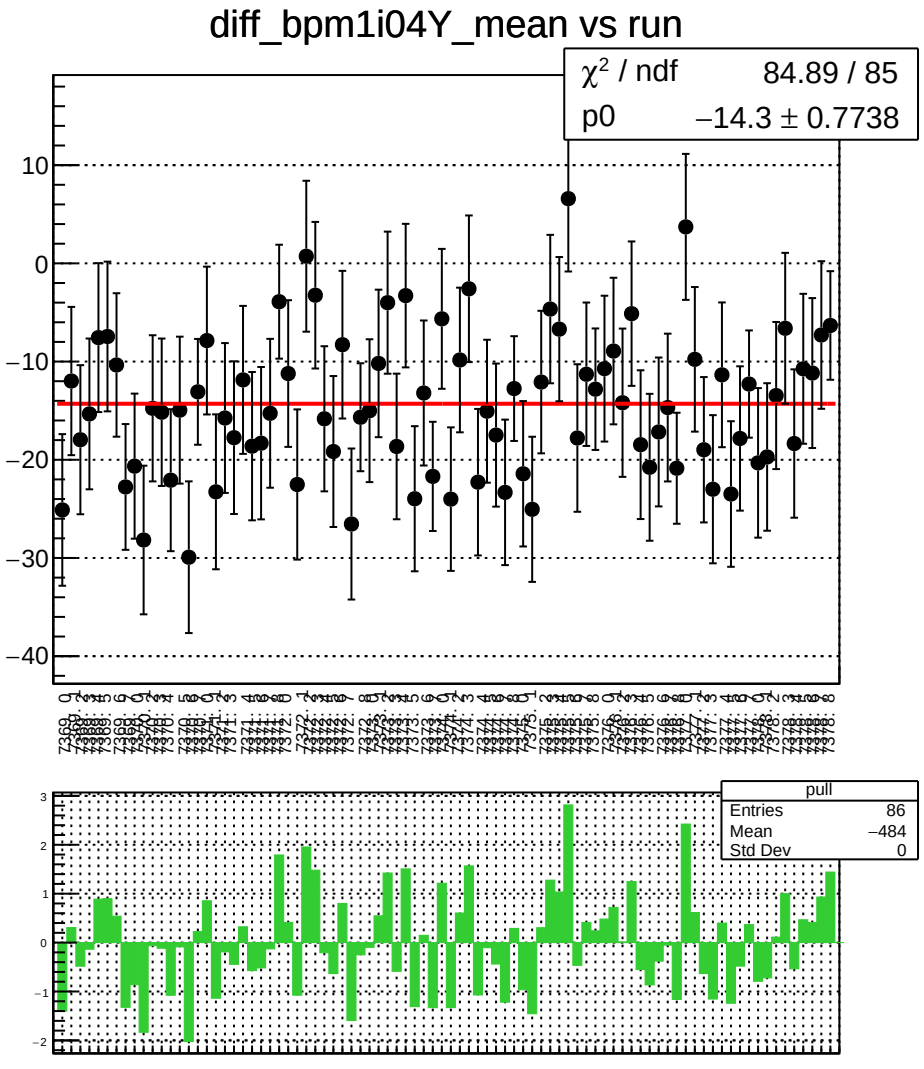

pull1D
Entries 86
Mean −0.01529
Std Dev 0.9361

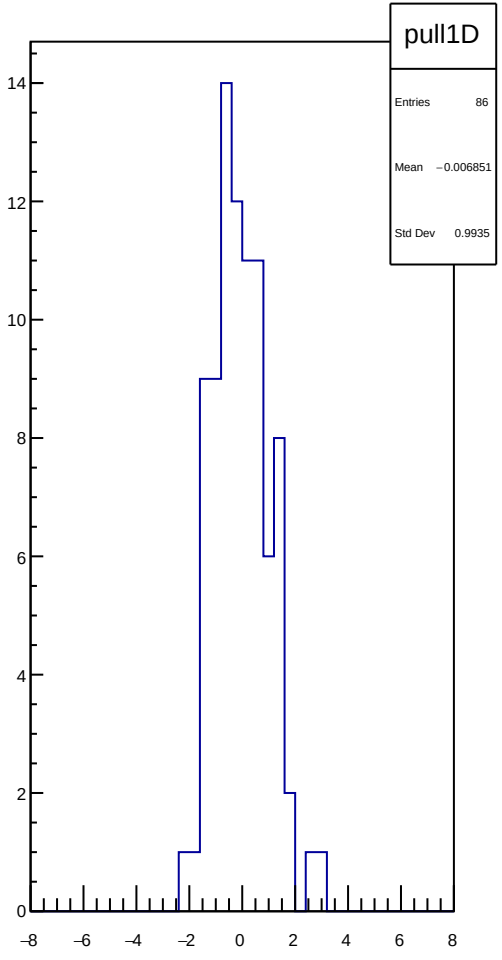

diff_bpm1i02Y_rms vs run
χ² / ndf 395.1 / 85
p0 621.7 ± 0.4791
660
650
640
630
620
610
600
590

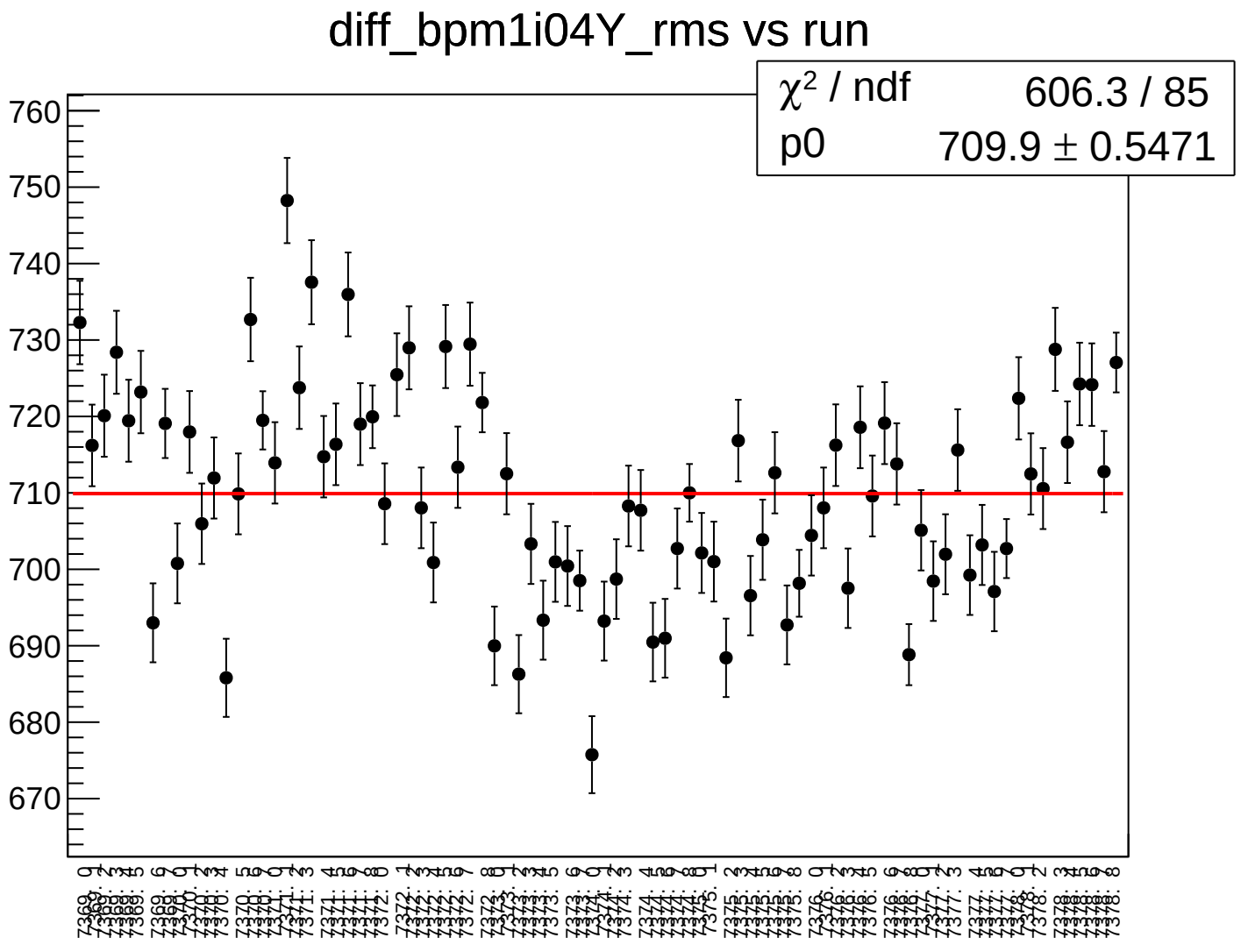

diff_bpm1i04X_mean vs run
χ^2 / ndf 76.34 / 85
p0 42.01 ± 0.9509
pull
Entries 86
Mean 159.8
Std Dev 0

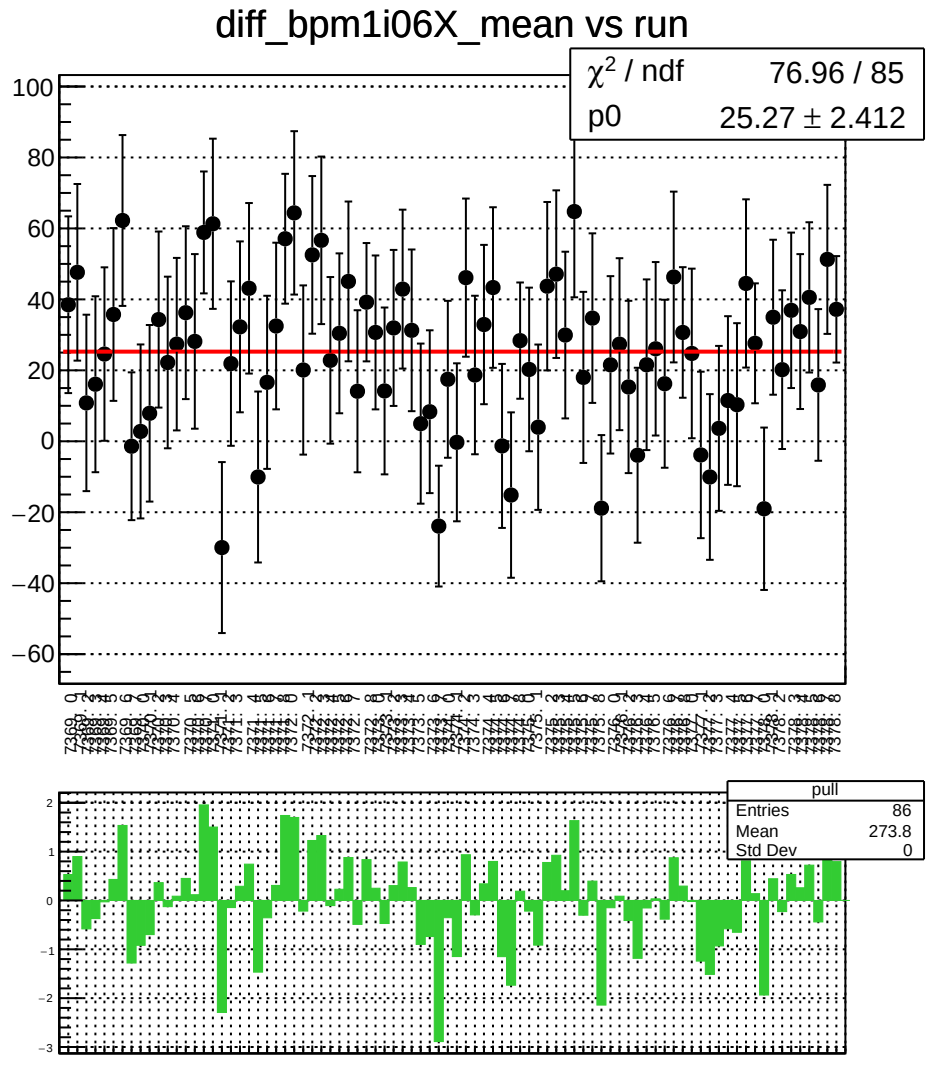

pull1D
Entries 86
Mean −0.01274
Std Dev 0.9421

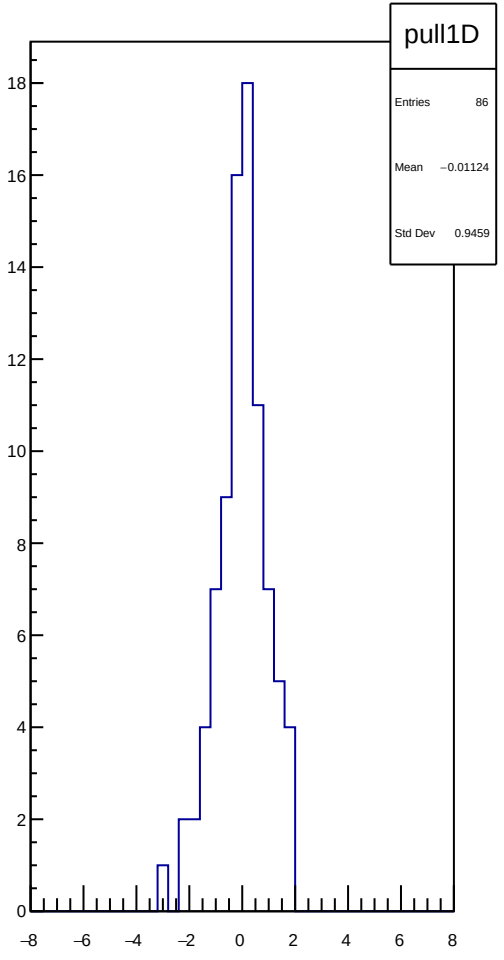

diff_bpm1i04X_rms vs run
χ² / ndf 162.3 / 85
p0 872.5 ± 0.6724
900
890
880
870
860
850

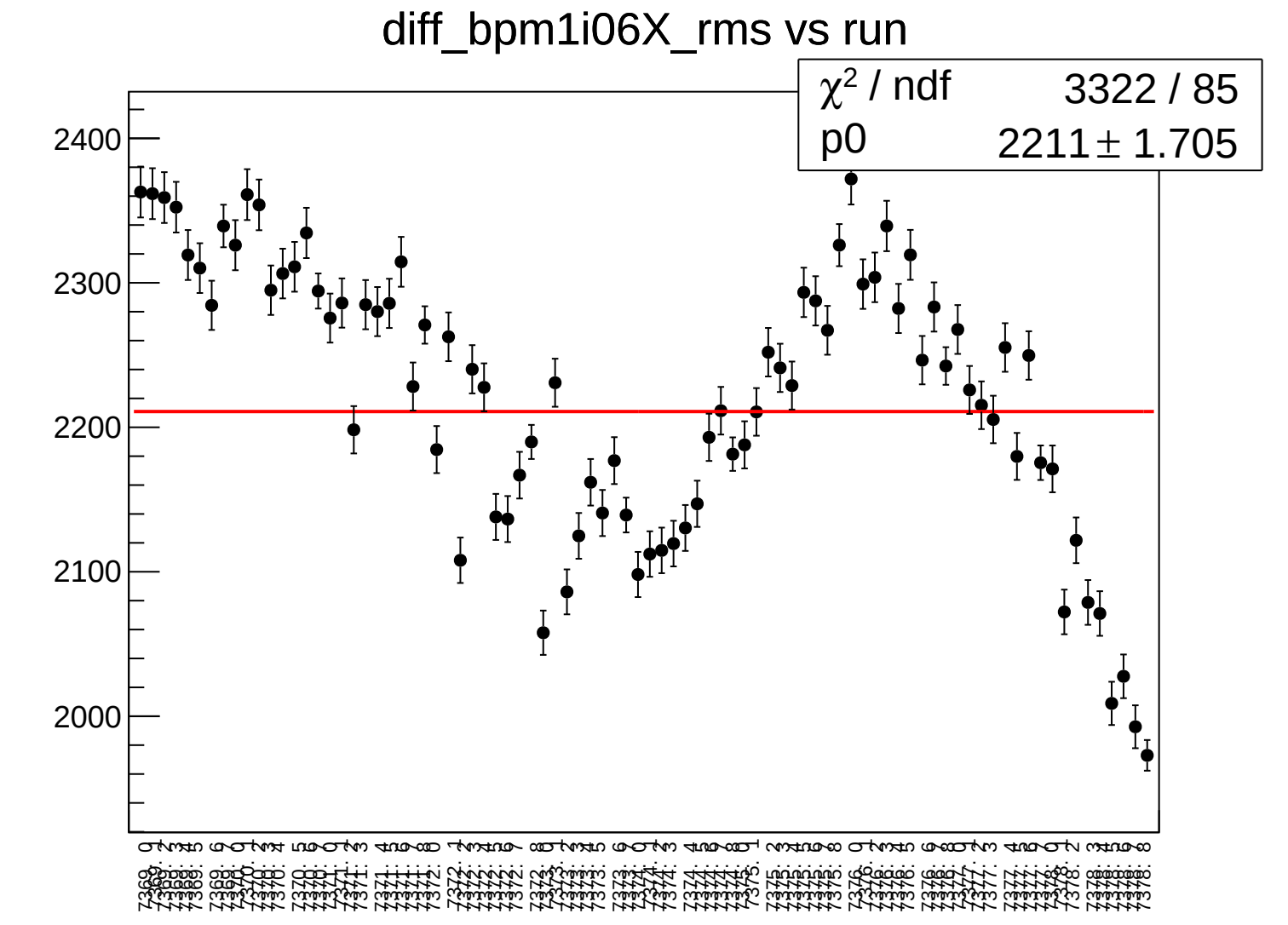

diff_bpm1i04Y_mean vs run
χ² / ndf 84.89 / 85
p0 −14.3 ± 0.7738
pull
Entries 86
Mean −484
Std Dev 0

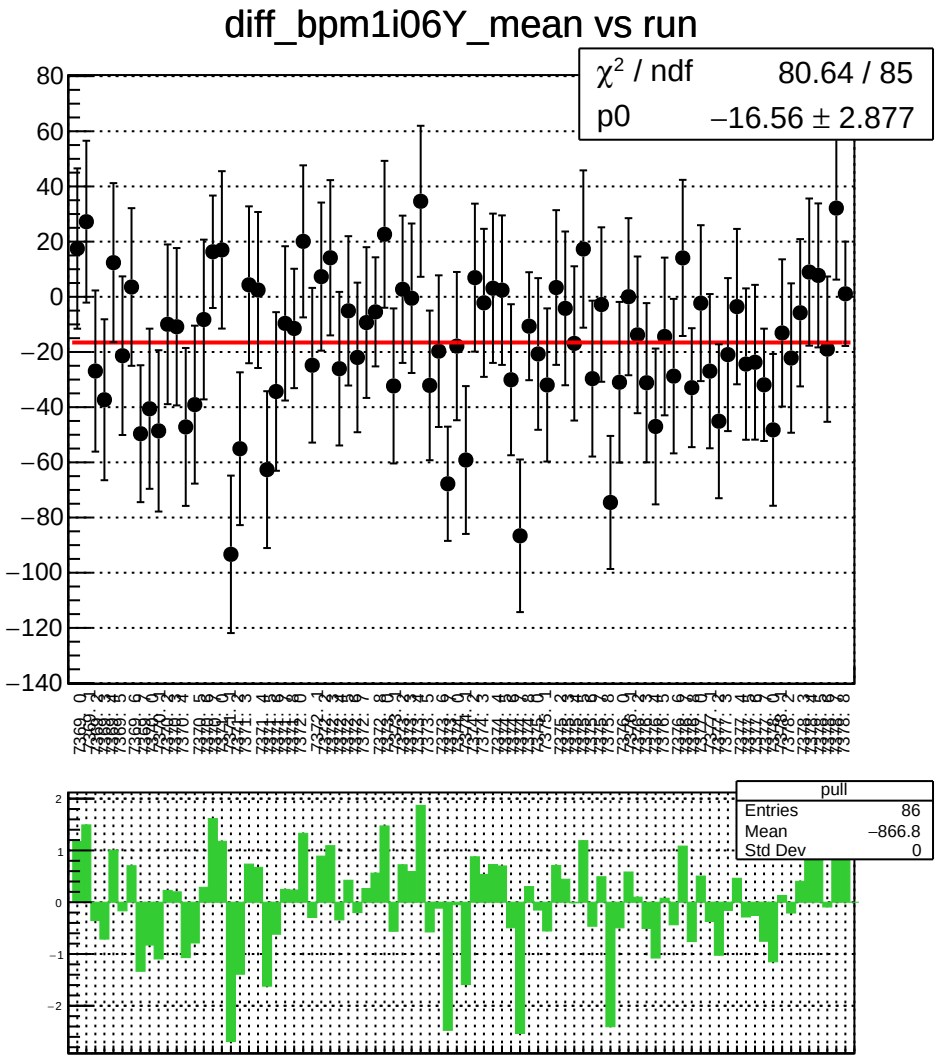

pull1D
Entries 86
Mean −0.006851
Std Dev 0.9935

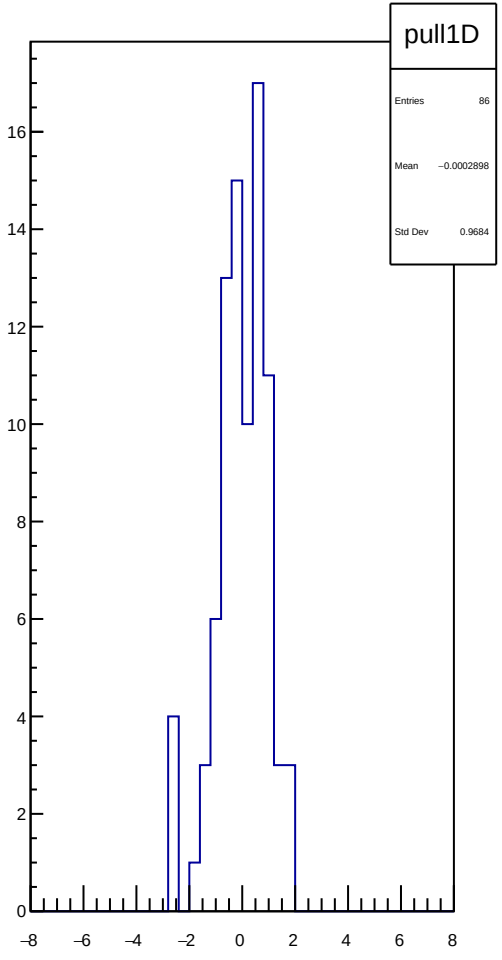

diff_bpm1i04Y_rms vs run
χ² / ndf 606.3 / 85
p0 709.9 ± 0.5471
760
750
740
730
720
710
700
690
680
670

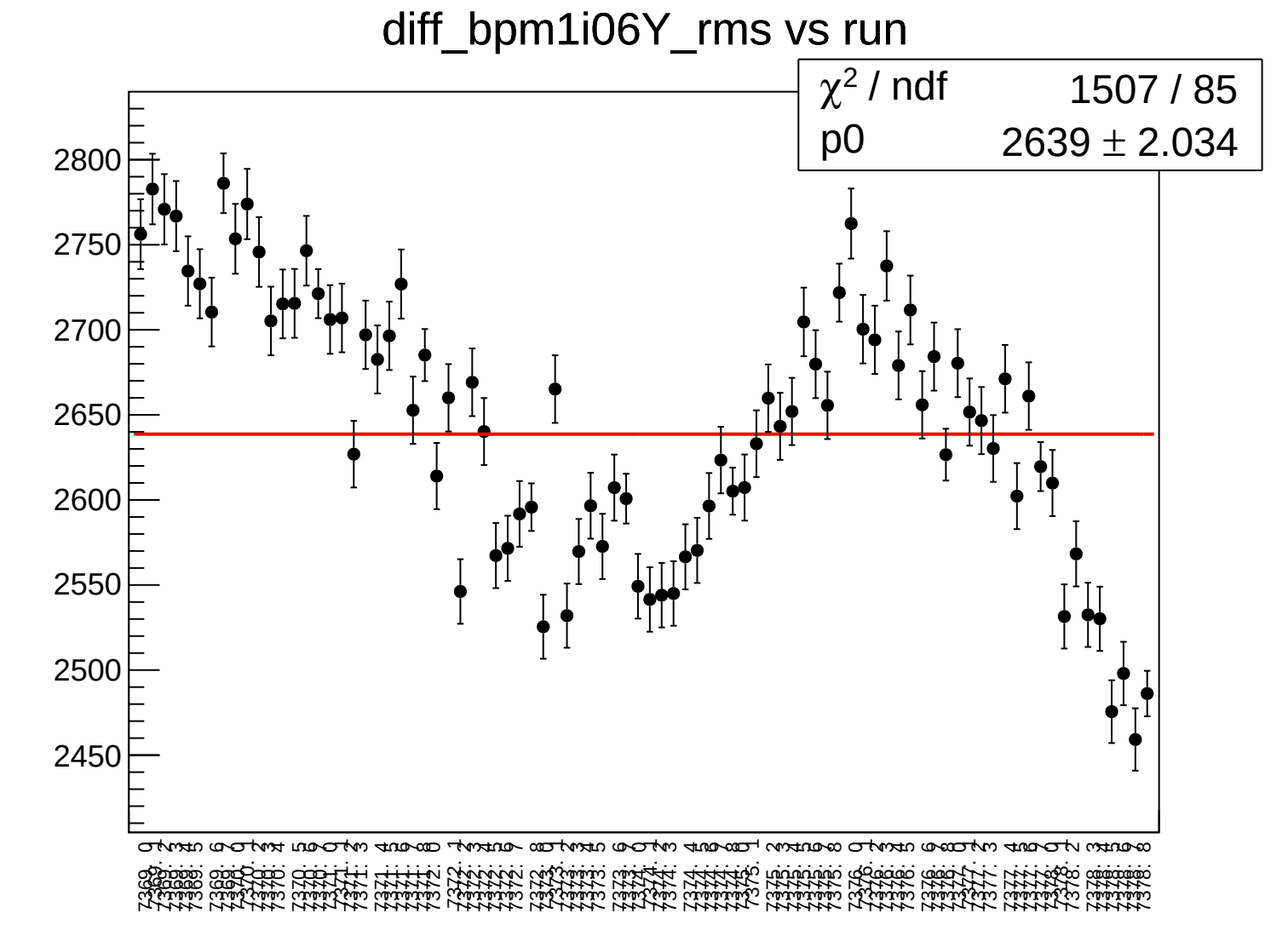

diff_bpm1i06X_mean vs run
χ² / ndf 76.96 / 85
p0 25.27 ± 2.412
pull
Entries 86
Mean 273.8
Std Dev 0

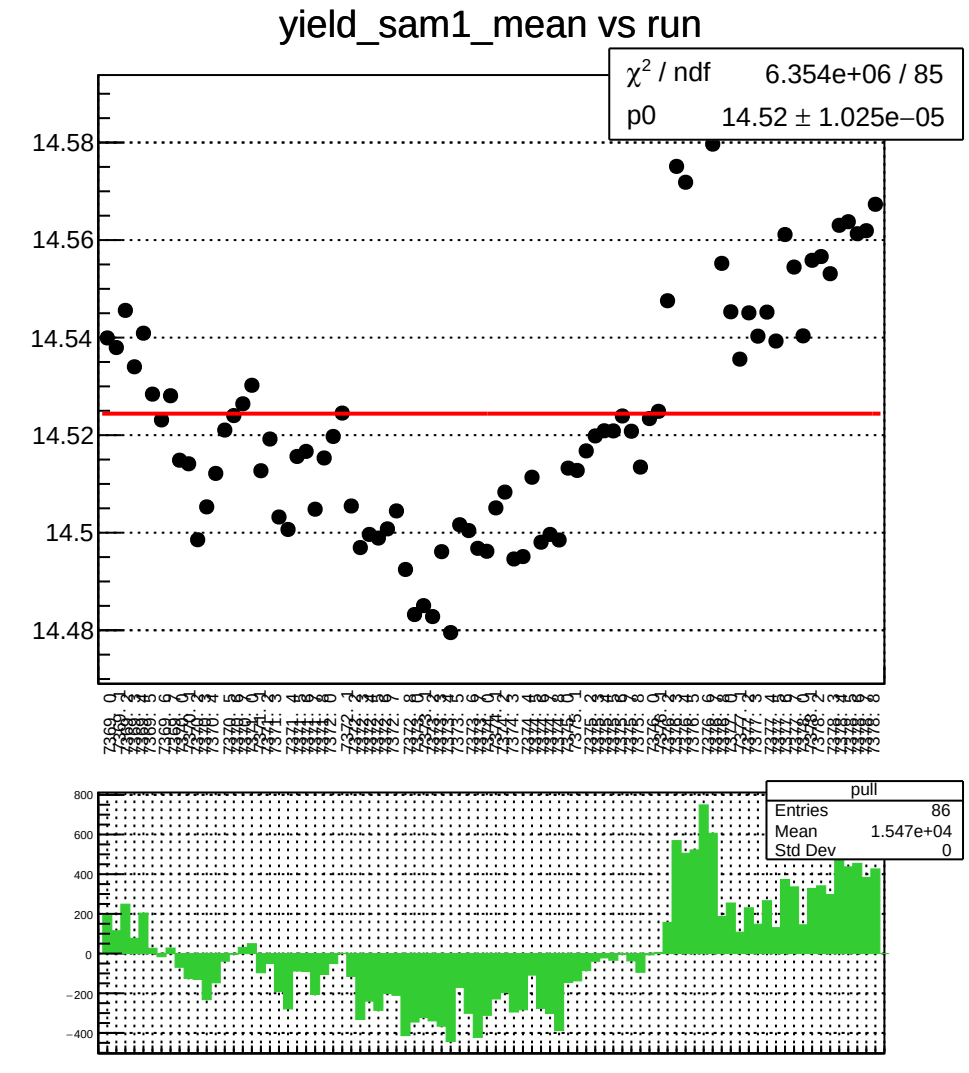

pull1D
Entries 86
Mean −0.01124
Std Dev 0.9459

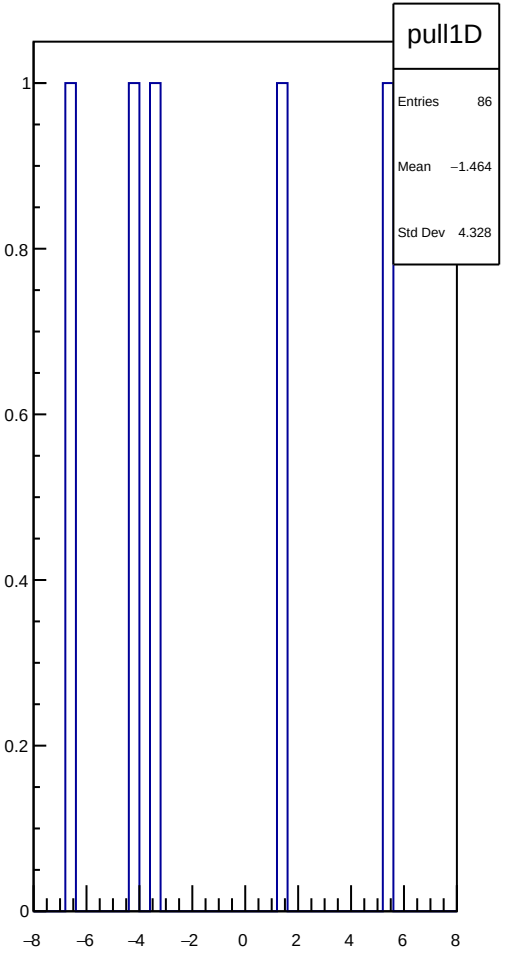

diff_bpm1i06X_rms vs run
χ² / ndf 3322 / 85
p0 2211 ± 1.705
2400
2300
2200
2100
2000

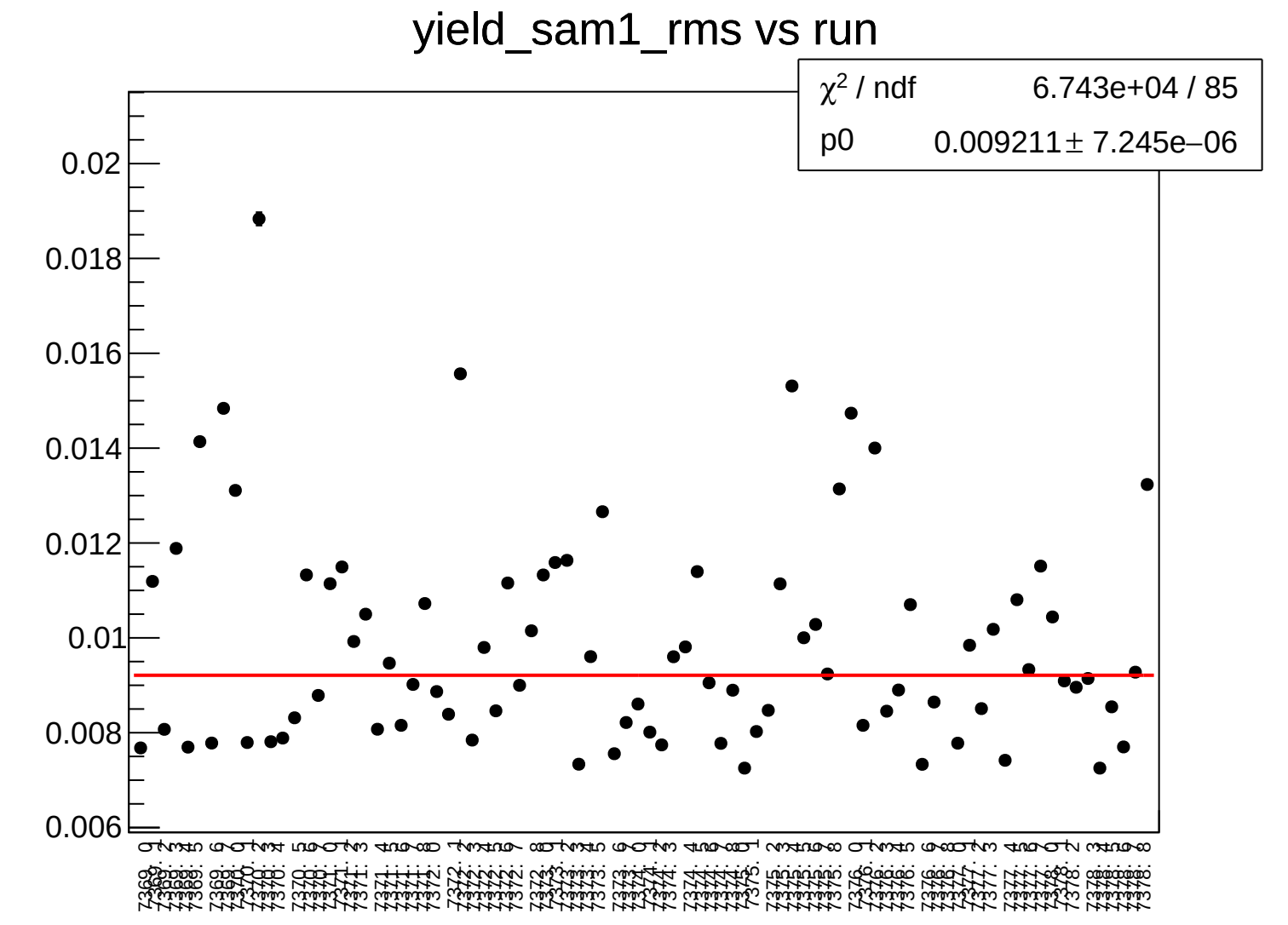

diff_bpm1i06Y_mean vs run
χ² / ndf 80.64 / 85
p0 −16.56 ± 2.877
pull
Entries 86
Mean −866.8
Std Dev 0

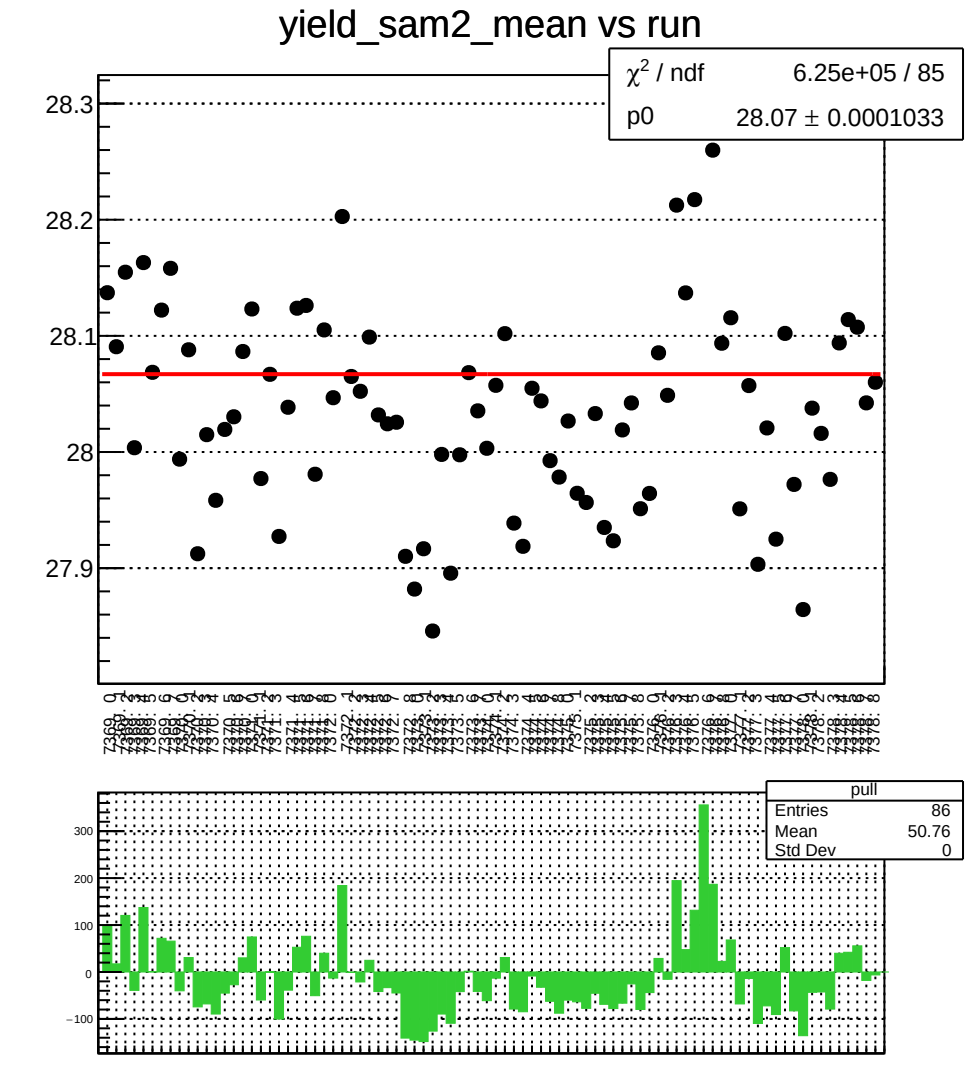

pull1D
Entries 86
Mean −0.0002898
Std Dev 0.9684

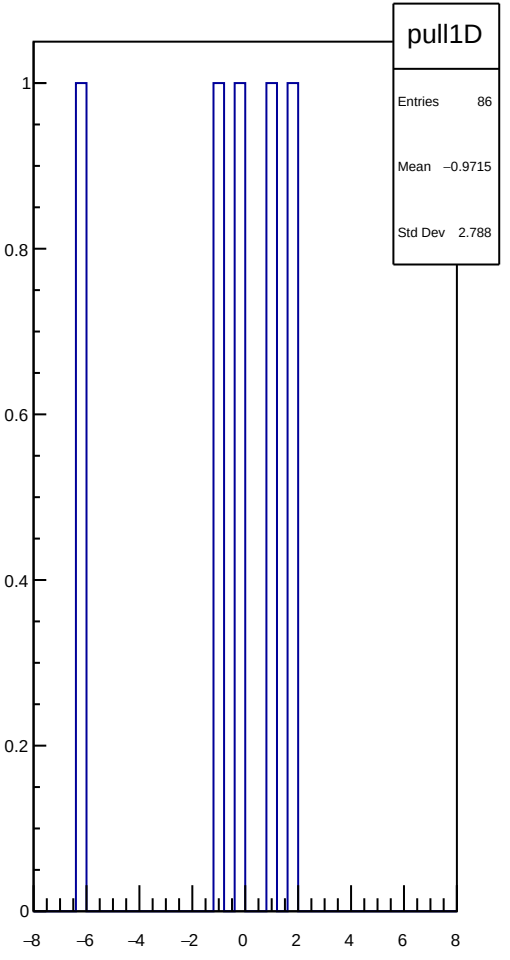

diff_bpm1i06Y_rms vs run
χ^2 / ndf 1507 / 85
p0 2639 ± 2.034
2800
2750
2700
2650
2600
2550
2500
2450

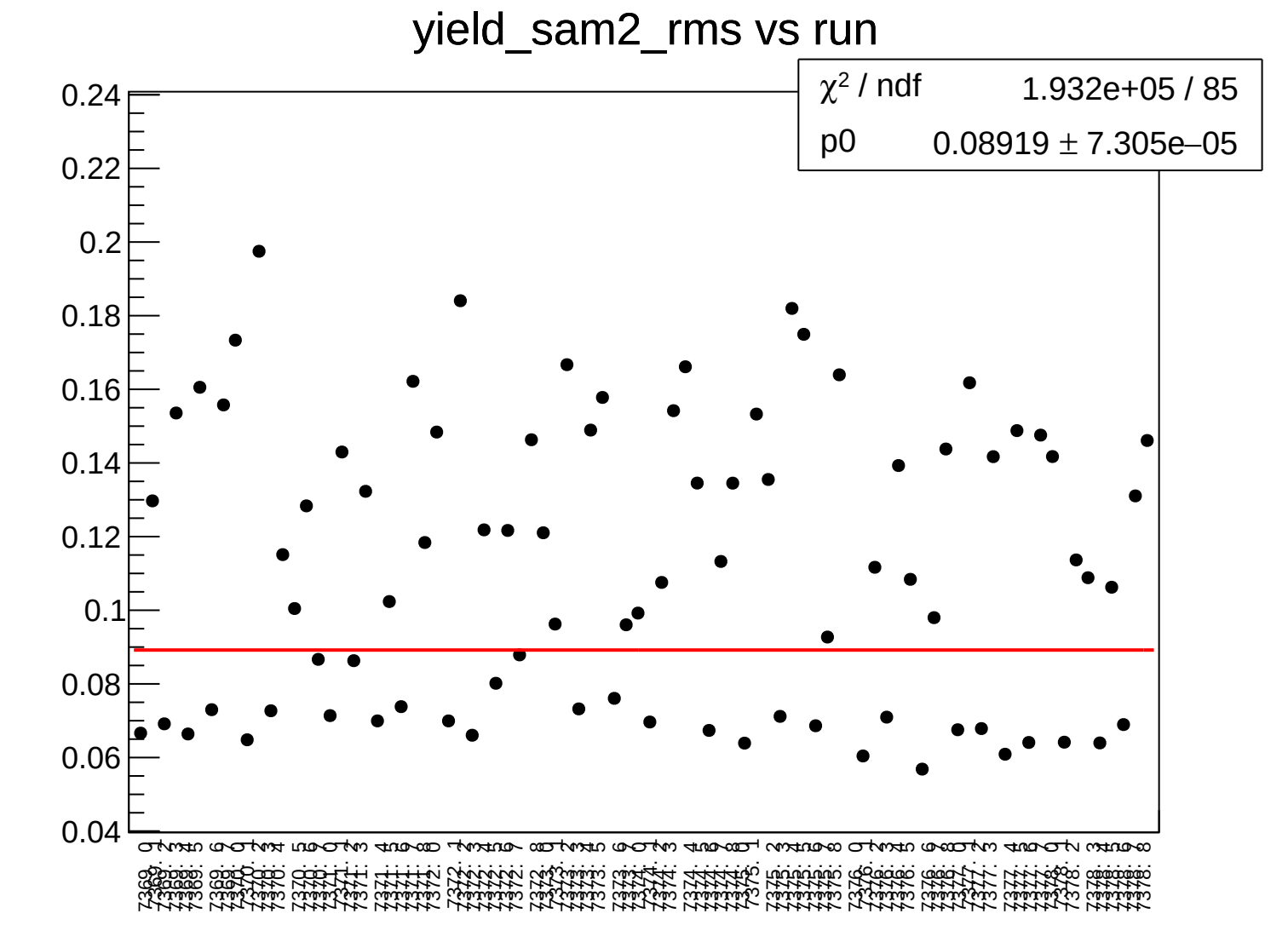

yield_sam1_mean vs run
χ² / ndf 6.354e+06 / 85
p0 14.52 ± 1.025e−05
14.58
14.56
14.54
14.52
14.5
14.48
pull
Entries 86
Mean 1.547e+04
Std Dev 0
800
600
400
200
0
−200
−400

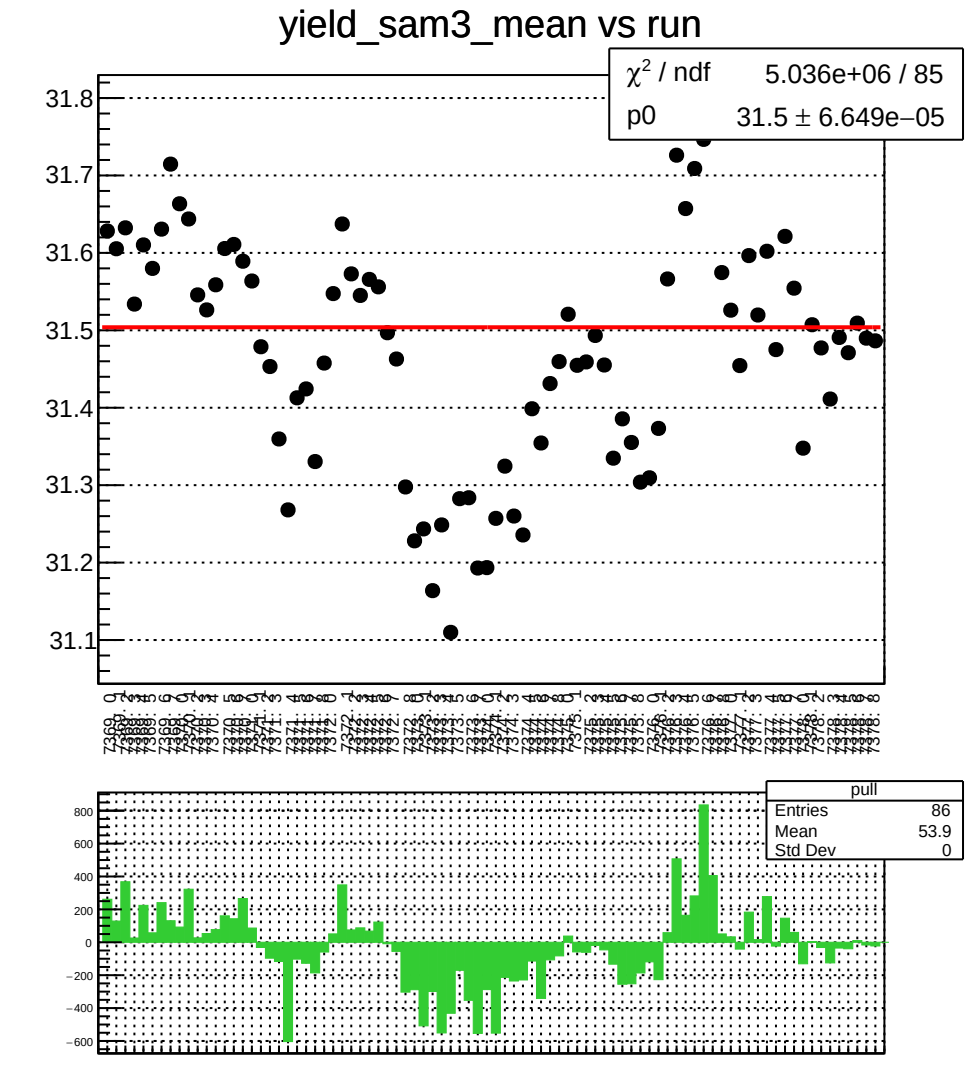

pull1D
Entries 86
Mean −1.464
Std Dev 4.328
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

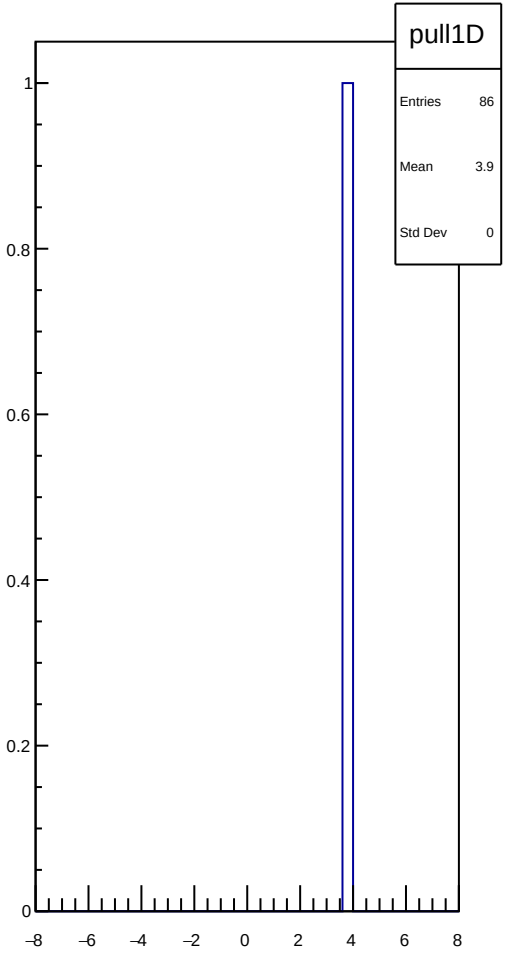

yield_sam1_rms vs run
χ² / ndf 6.743e+04 / 85
p0 0.009211 ± 7.245e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

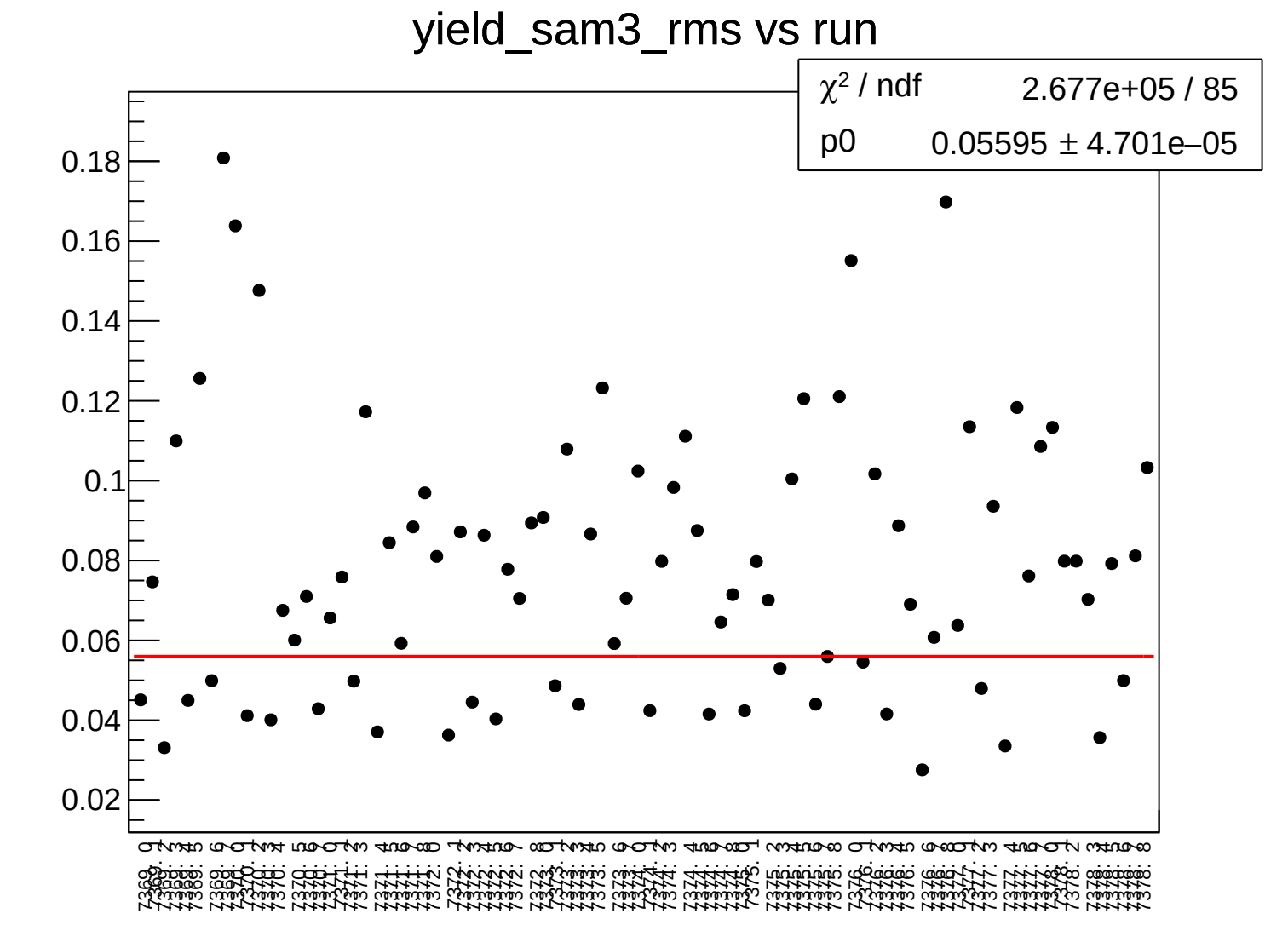

yield_sam2_mean vs run
χ² / ndf 6.25e+05 / 85
p0 28.07 ± 0.0001033
28.3
28.2
28.1
28
27.9
pull
Entries 86
Mean 50.76
Std Dev 0
300
200
100
0
−100

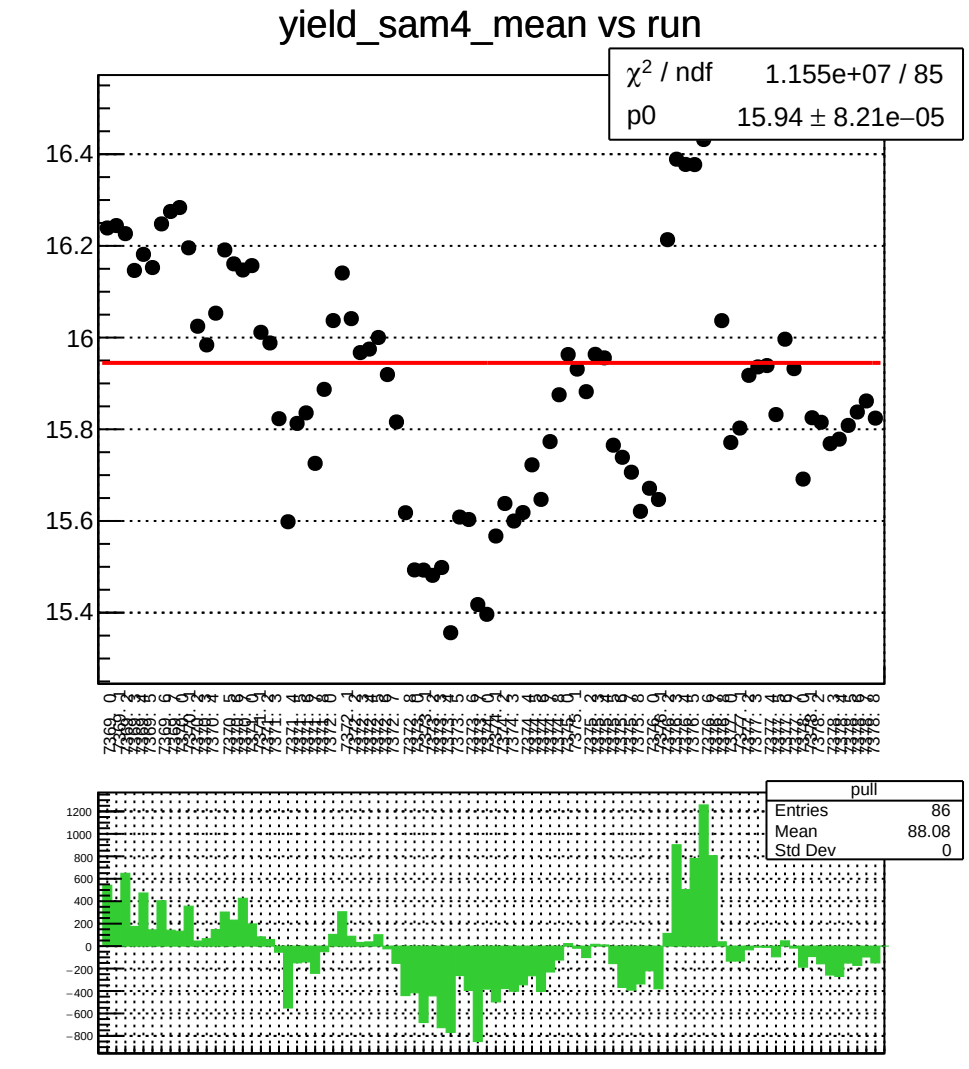

pull1D
Entries 86
Mean −0.9715
Std Dev 2.788
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

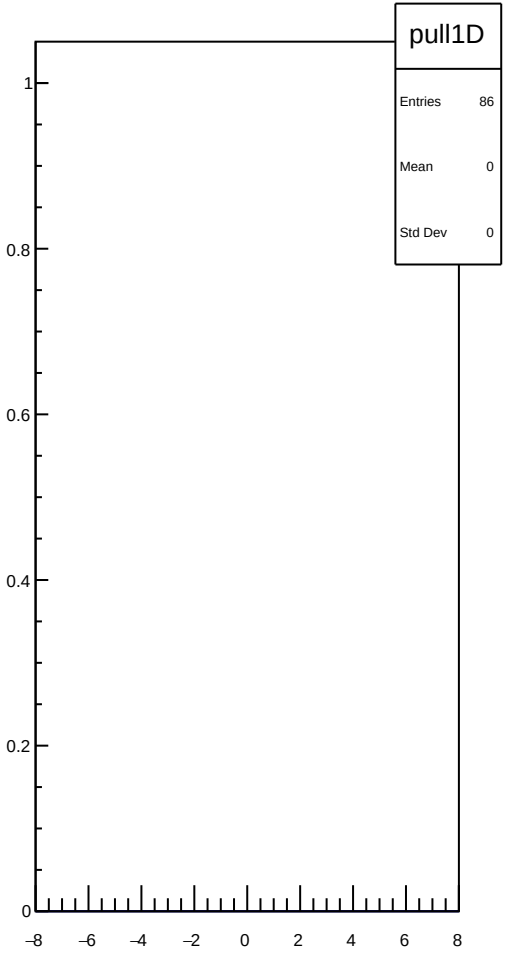

yield_sam2_rms vs run
χ² / ndf 1.932e+05 / 85
p0 0.08919 ± 7.305e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

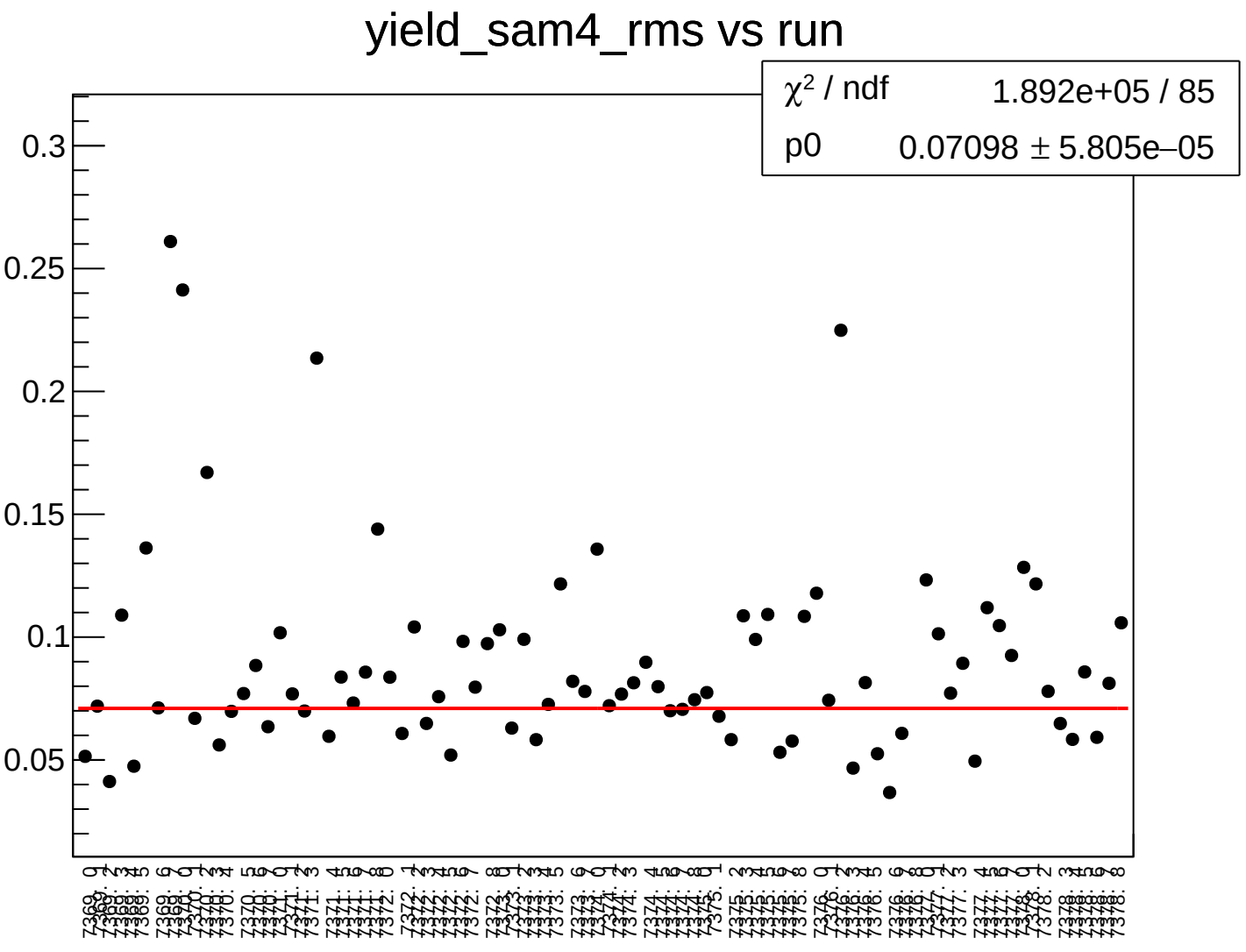

yield_sam3_mean vs run
χ² / ndf 5.036e+06 / 85
p0 31.5 ± 6.649e−05
31.8
31.7
31.6
31.5
31.4
31.3
31.2
31.1
pull
Entries 86
Mean 53.9
Std Dev 0
800
600
400
200
0
−200
−400
−600

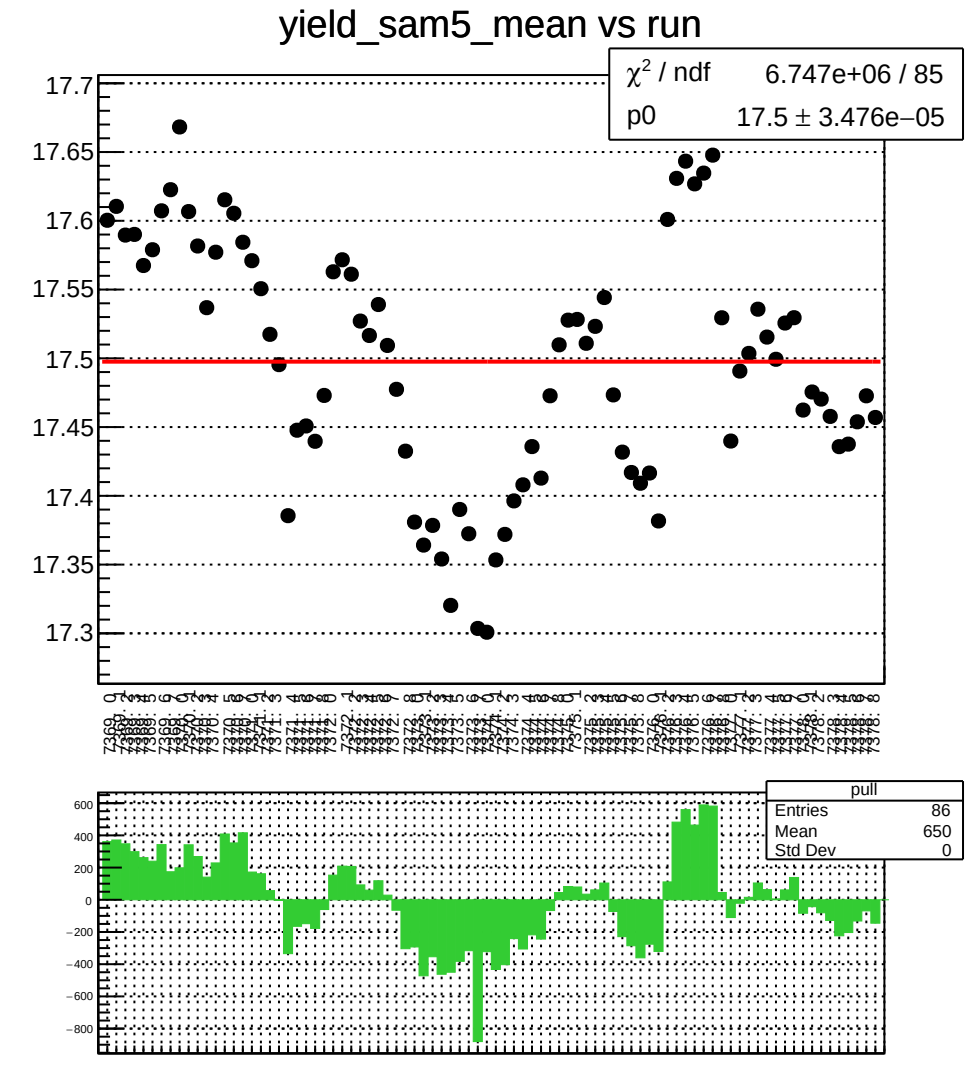

pull1D
Entries 86
Mean 3.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

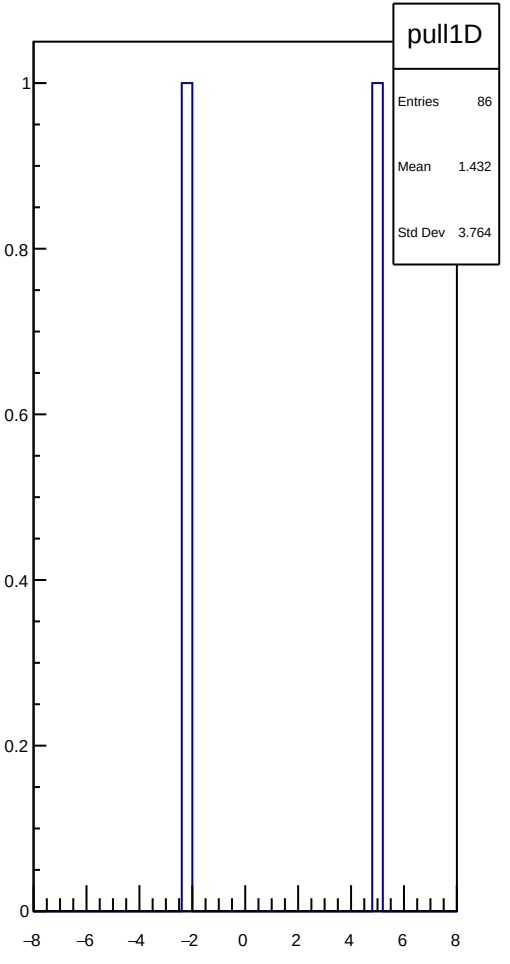

yield_sam3_rms vs run
χ² / ndf 2.677e+05 / 85
p0 0.05595 ± 4.701e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

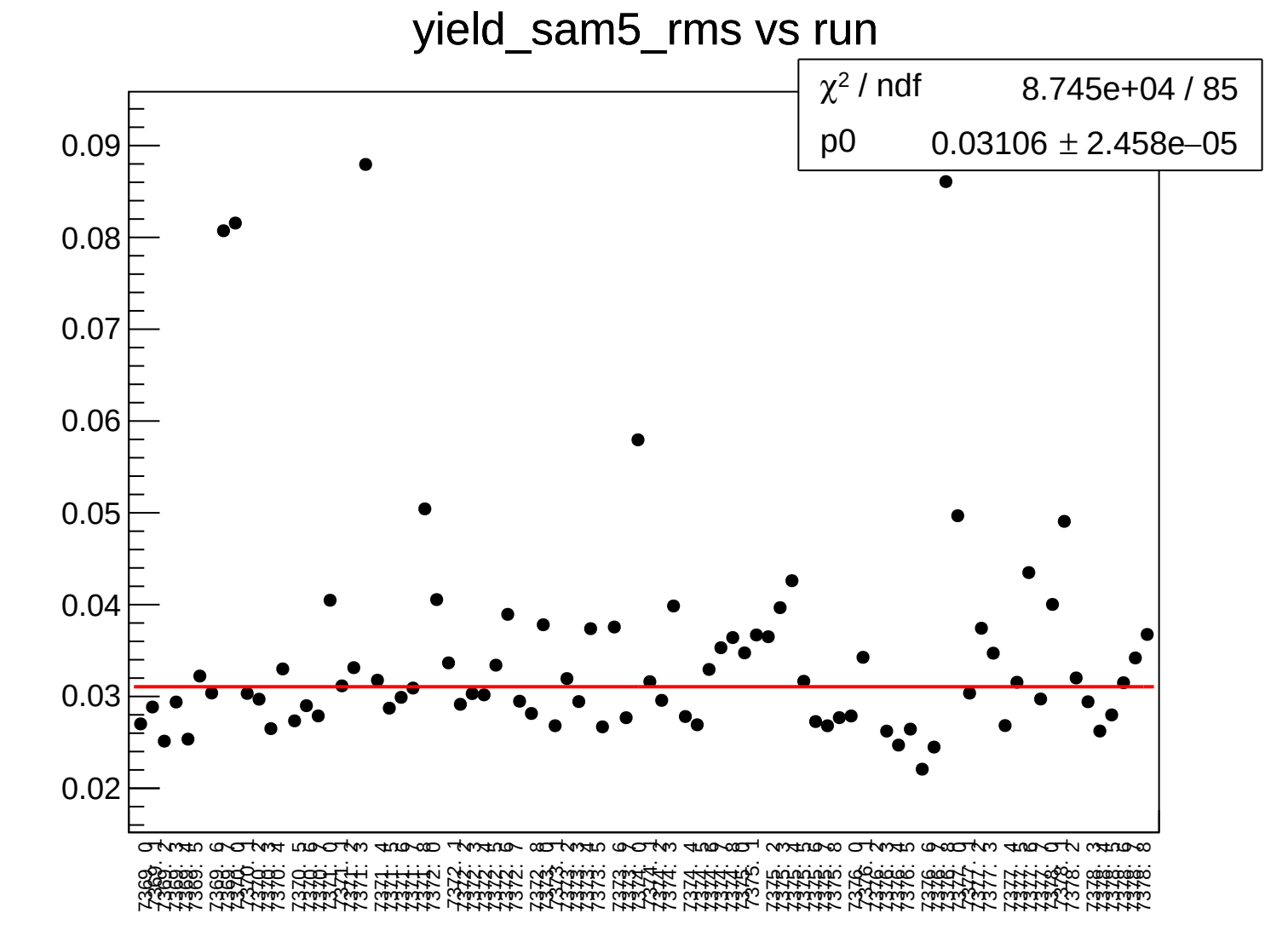

yield_sam4_mean vs run
χ² / ndf 1.155e+07 / 85
p0 15.94 ± 8.21e−05
16.4
16.2
16
15.8
15.6
15.4
pull
Entries 86
Mean 88.08
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

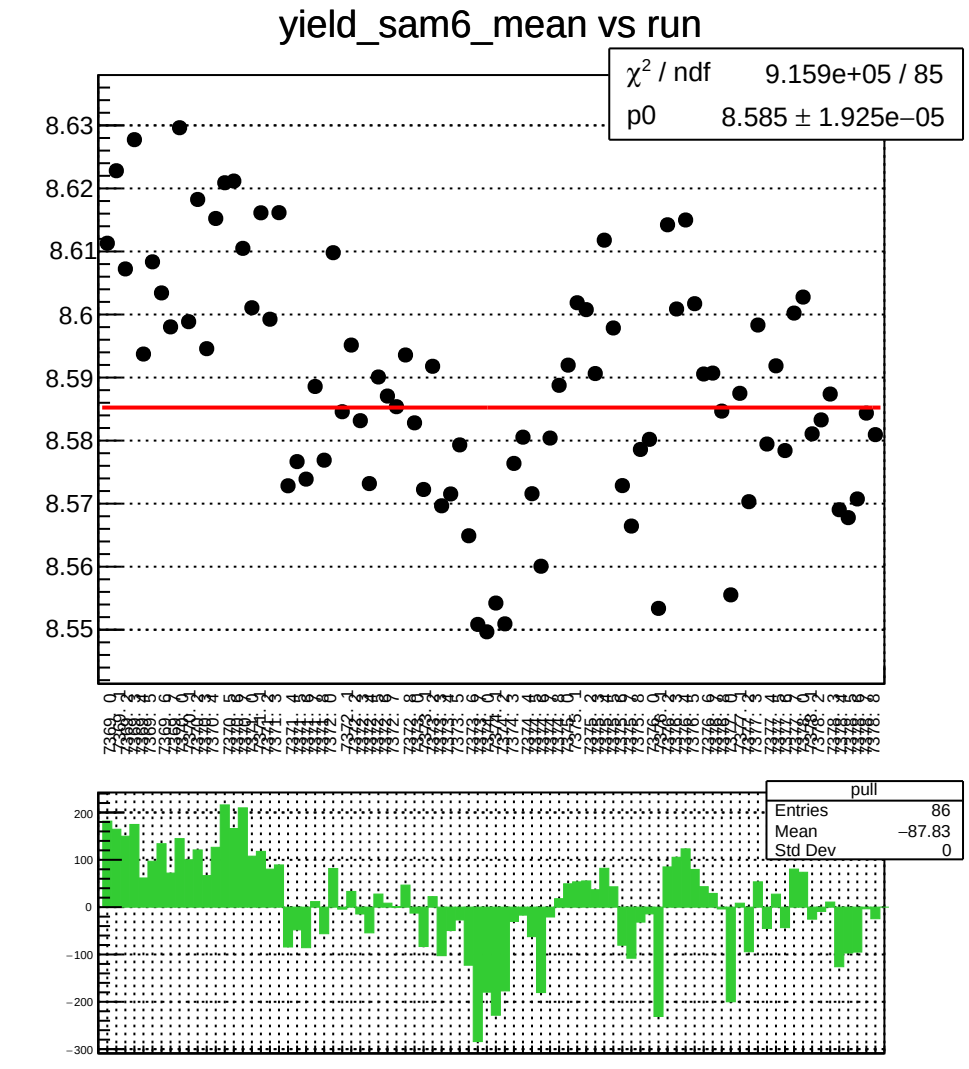

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

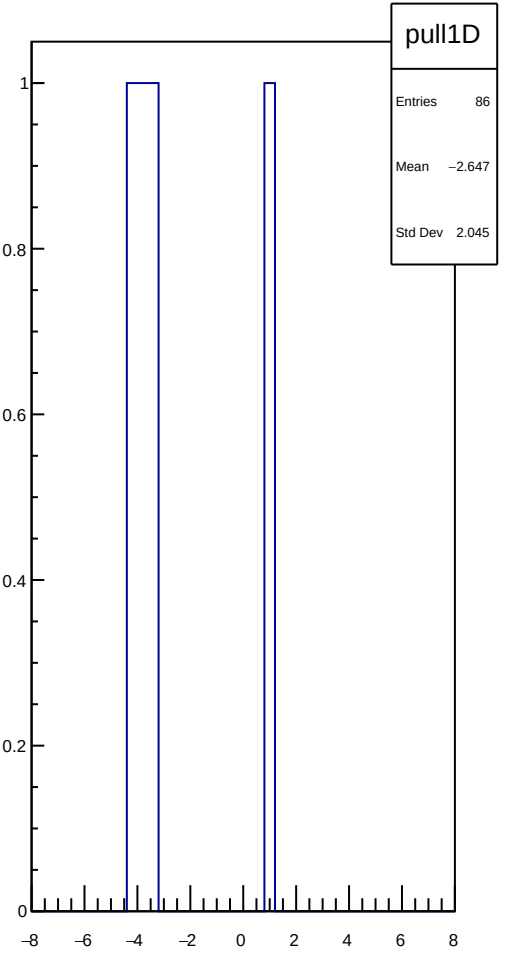

yield_sam4_rms vs run
χ² / ndf 1.892e+05 / 85
p0 0.07098 ± 5.805e−05
0.3
0.25
0.2
0.15
0.1
0.05

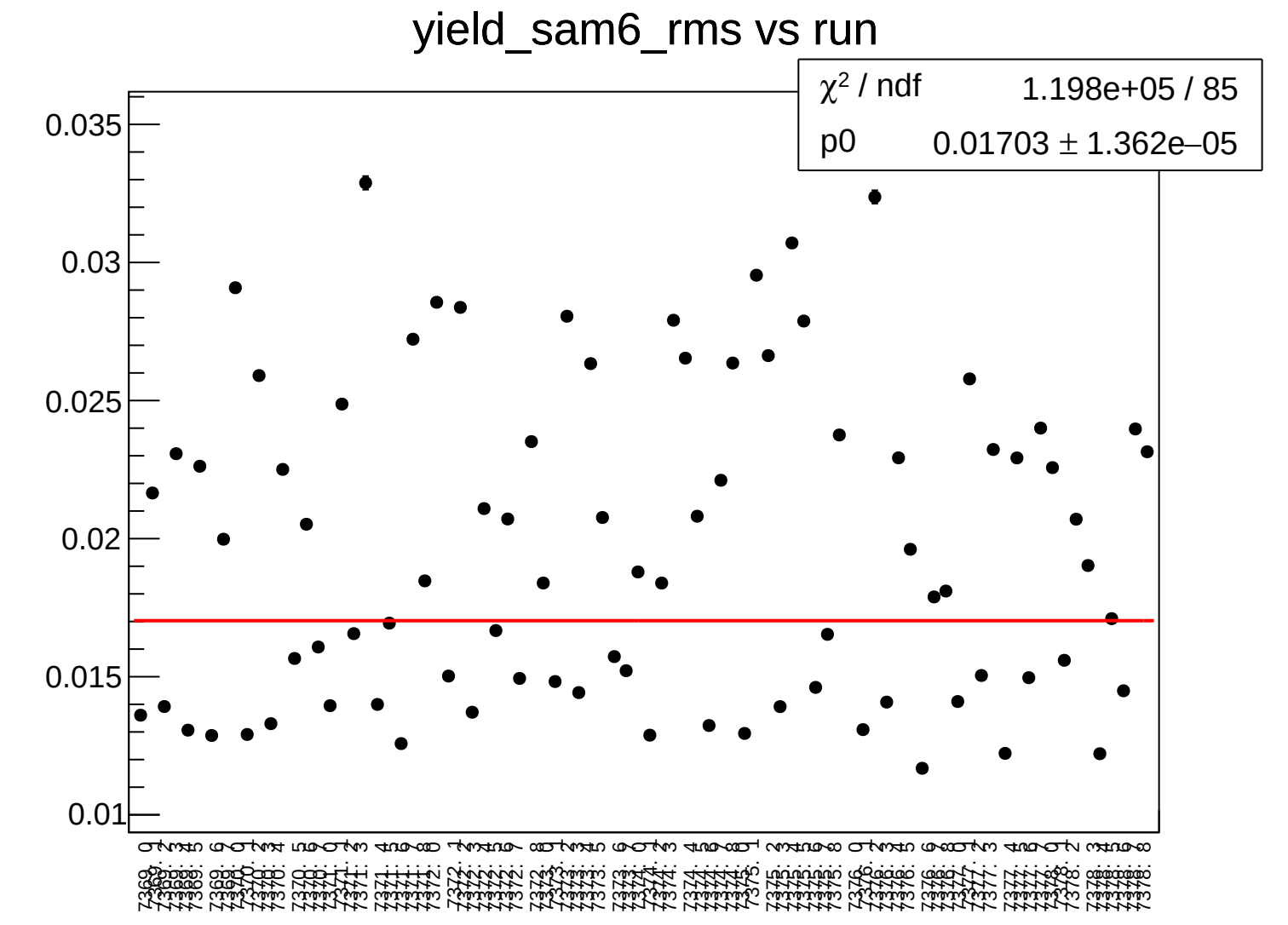

yield_sam5_mean vs run
χ² / ndf 6.747e+06 / 85
p0 17.5 ± 3.476e−05
17.7
17.65
17.6
17.55
17.5
17.45
17.4
17.35
17.3
pull
Entries 86
Mean 650
Std Dev 0
600
400
200
0
−200
−400
−600
−800

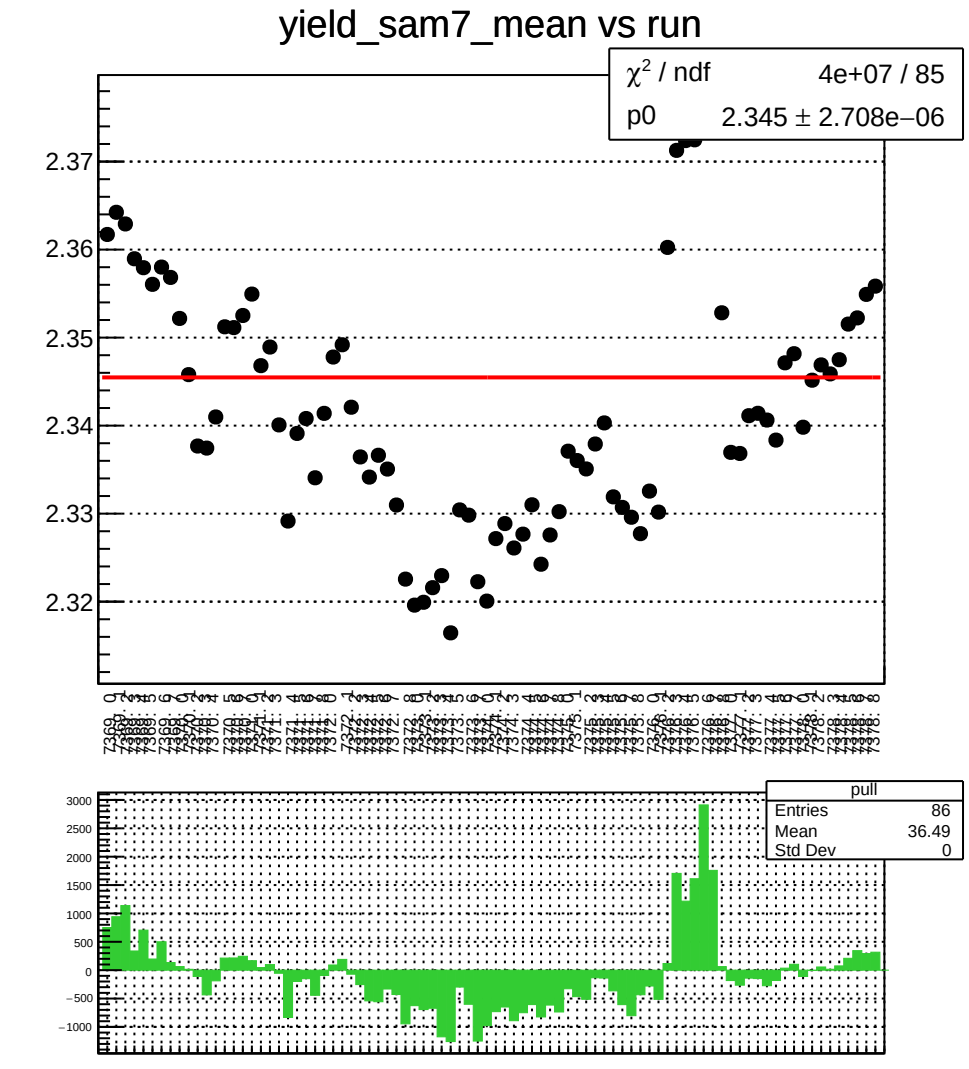

pull1D
Entries 86
Mean 1.432
Std Dev 3.764
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

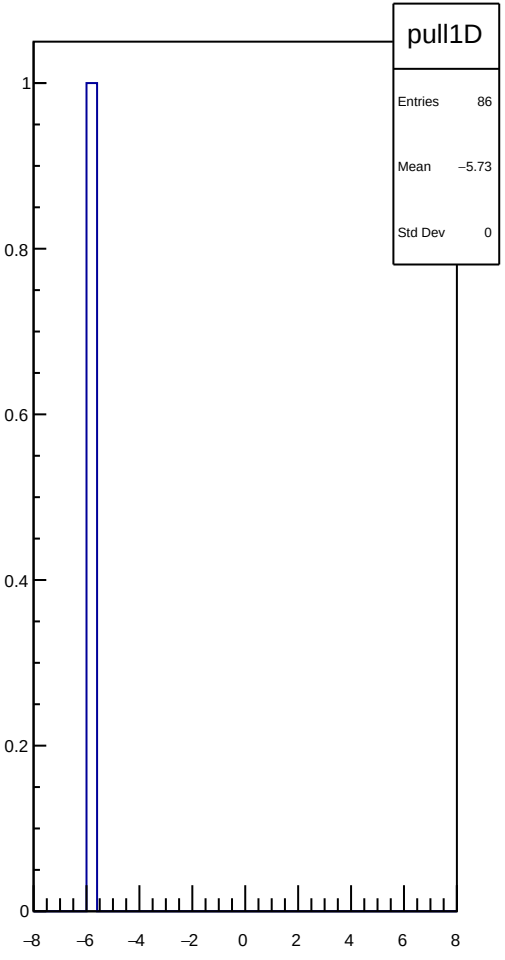

yield_sam5_rms vs run
χ² / ndf 8.745e+04 / 85
p0 0.03106 ± 2.458e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

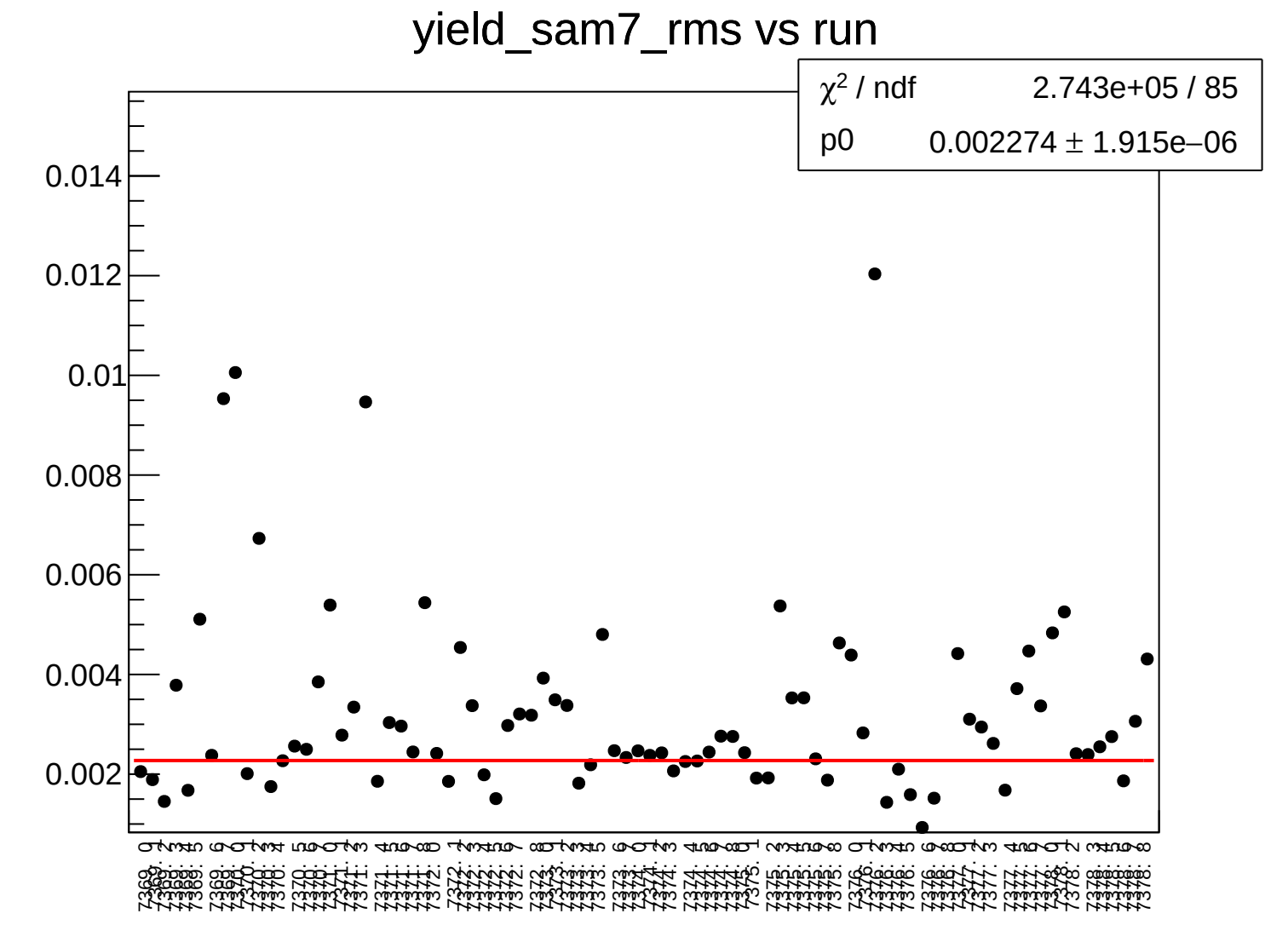

yield_sam6_mean vs run
χ² / ndf 9.159e+05 / 85
p0 8.585 ± 1.925e−05
8.63
8.62
8.61
8.6
8.59
8.58
8.57
8.56
8.55
pull
Entries 86
Mean −87.83
Std Dev 0
200
100
0
−100
−200
−300

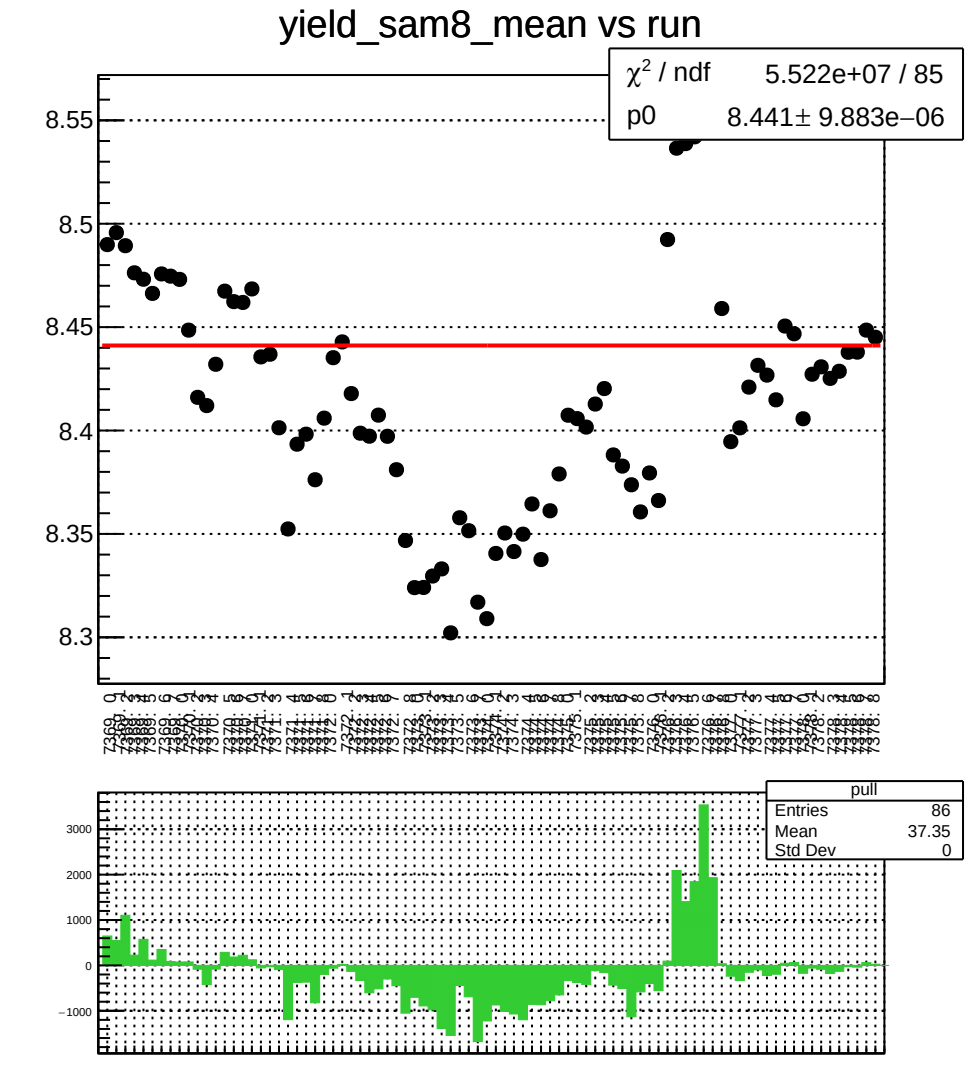

pull1D
Entries 86
Mean −2.647
Std Dev 2.045
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

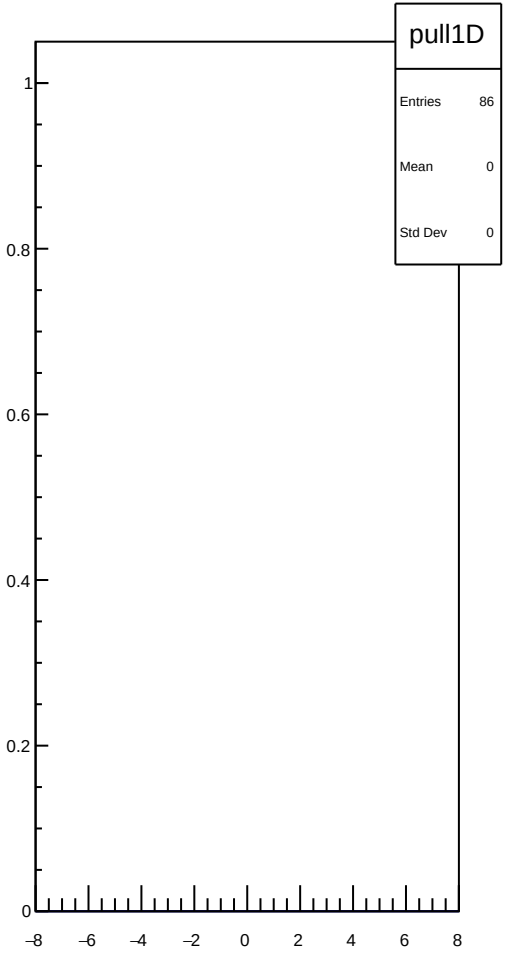

yield_sam6_rms vs run
χ² / ndf 1.198e+05 / 85
p0 0.01703 ± 1.362e−05
0.035
0.03
0.025
0.02
0.015
0.01

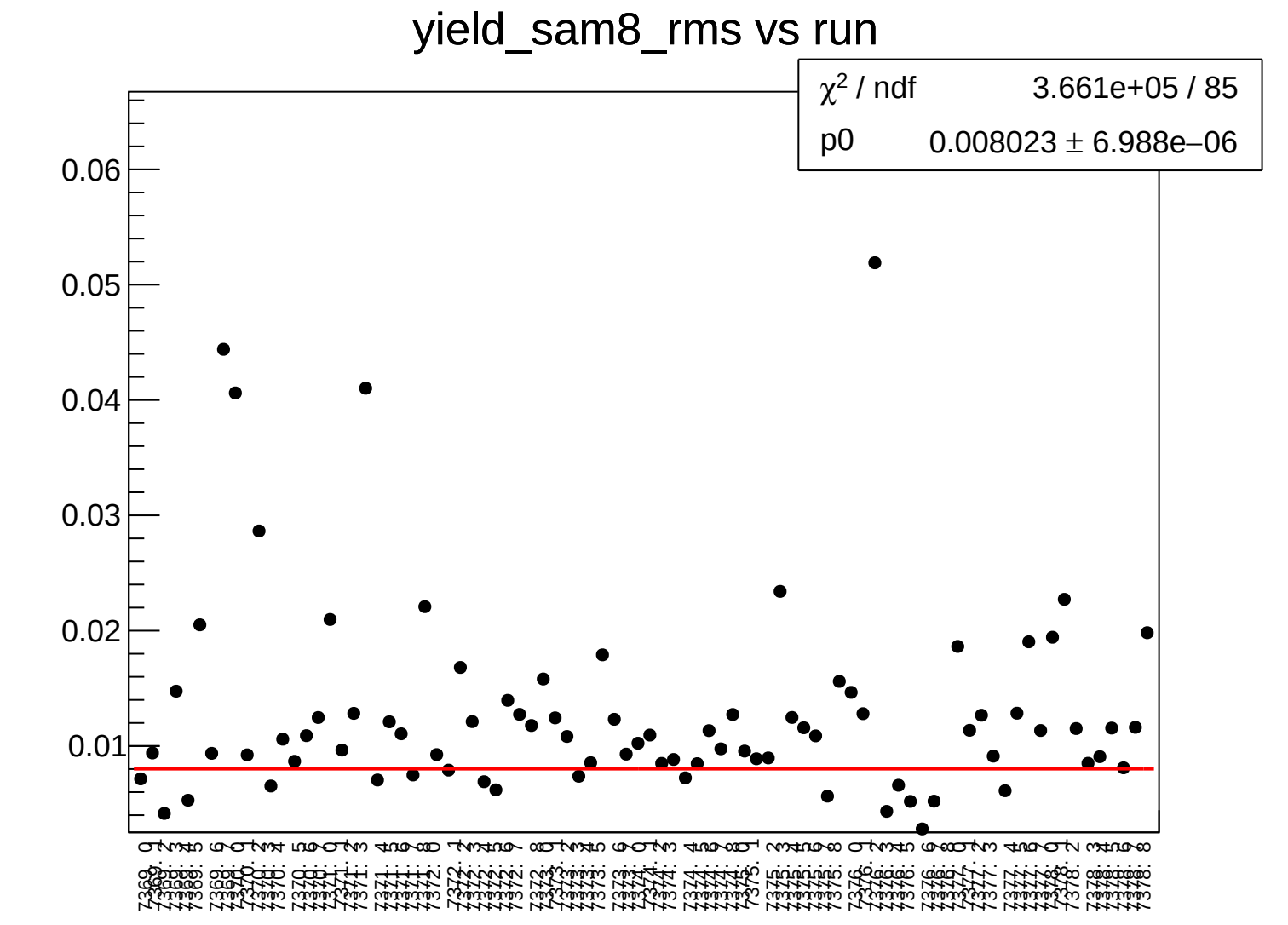

yield_sam7_mean vs run
χ² / ndf 4e+07 / 85
p0 2.345 ± 2.708e−06
2.37
2.36
2.35
2.34
2.33
2.32
pull
Entries 86
Mean 36.49
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000

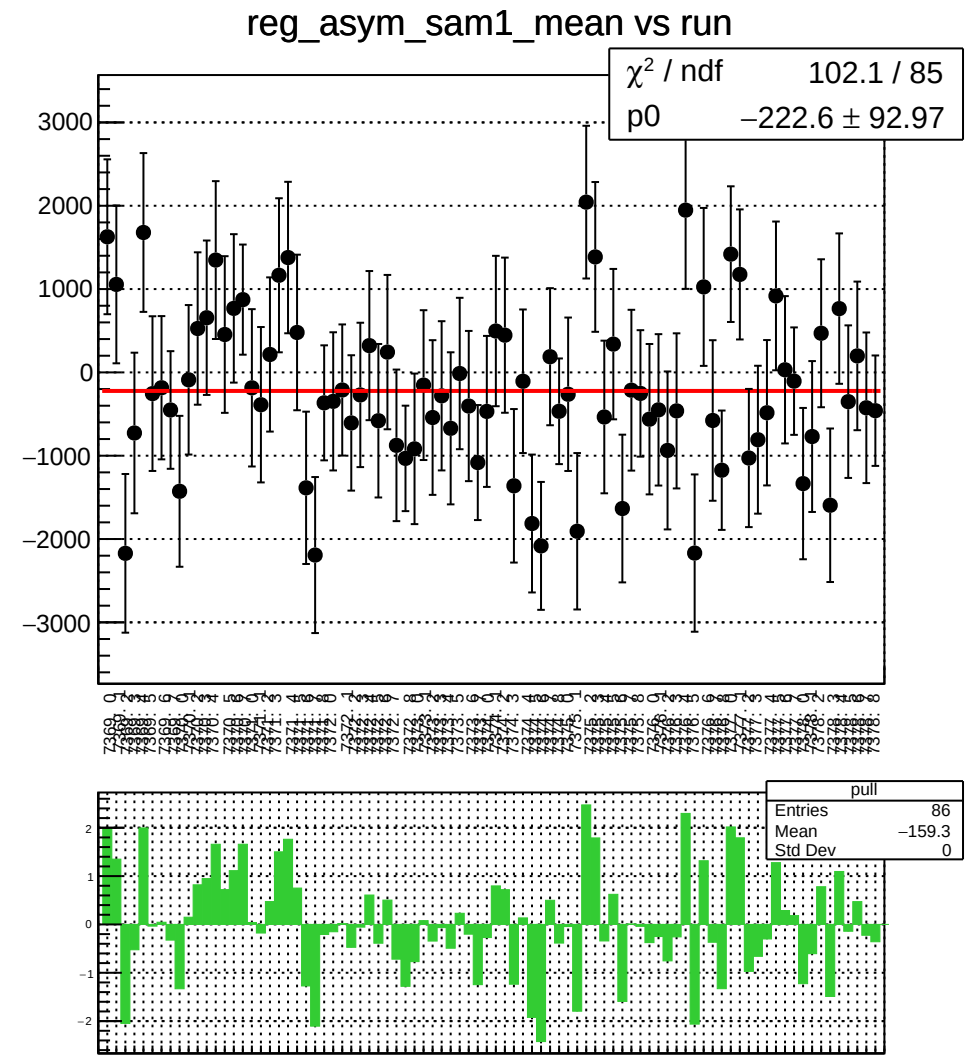

pull1D
Entries 86
Mean −5.73
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

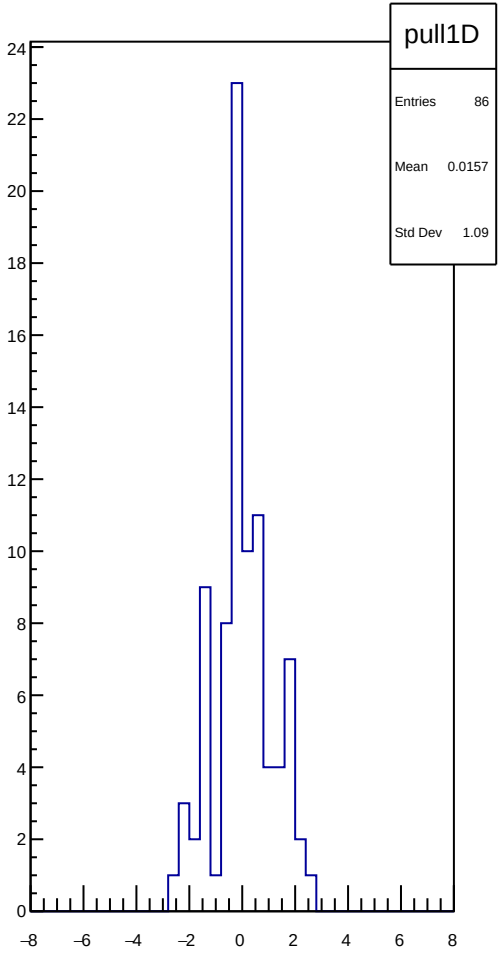

yield_sam7_rms vs run
χ^2 / ndf 2.743e+05 / 85
p0 0.002274 ± 1.915e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

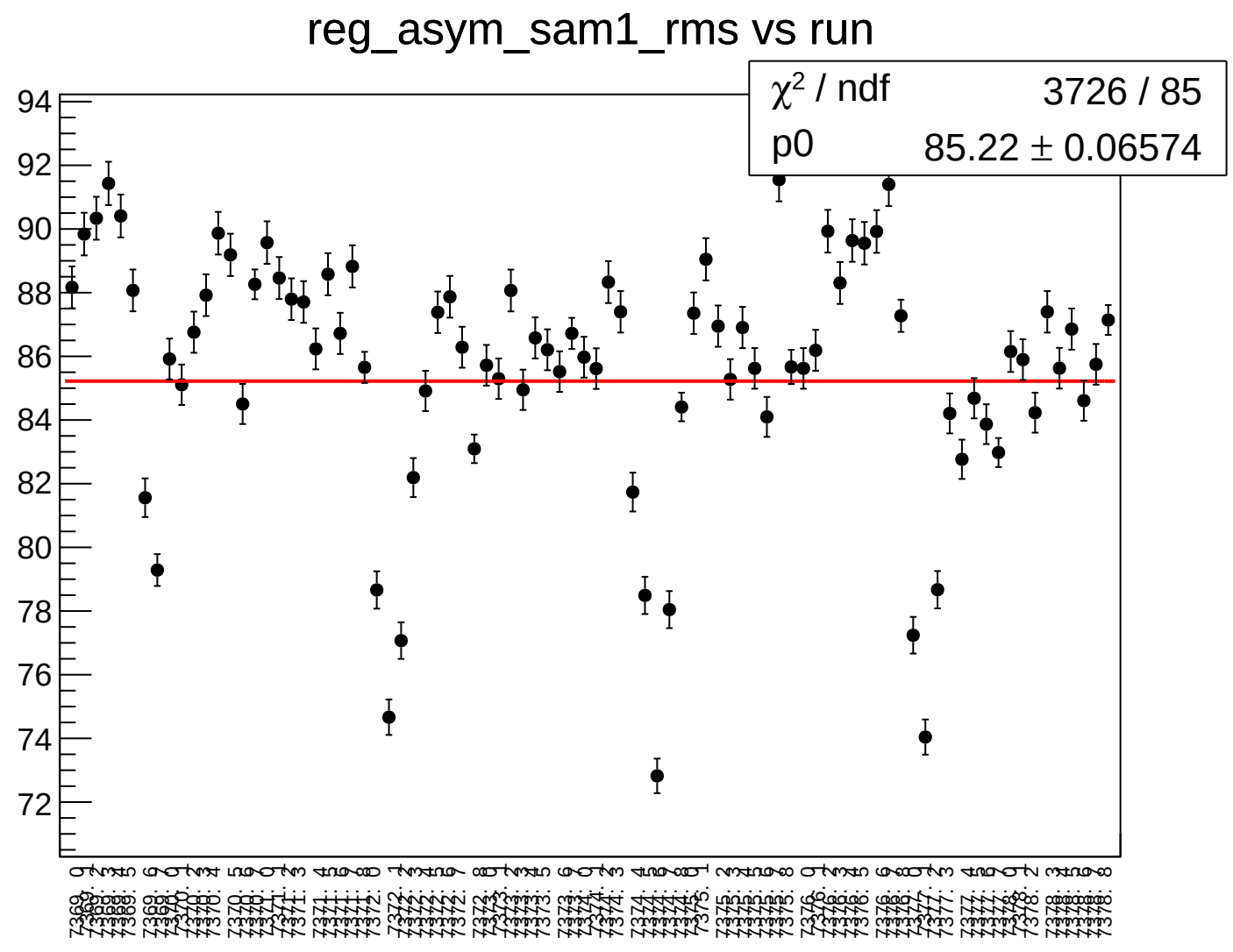

yield_sam8_mean vs run
χ² / ndf 5.522e+07 / 85
p0 8.441± 9.883e−06
8.55
8.5
8.45
8.4
8.35
8.3
pull
Entries 86
Mean 37.35
Std Dev 0
3000
2000
1000
0
−1000

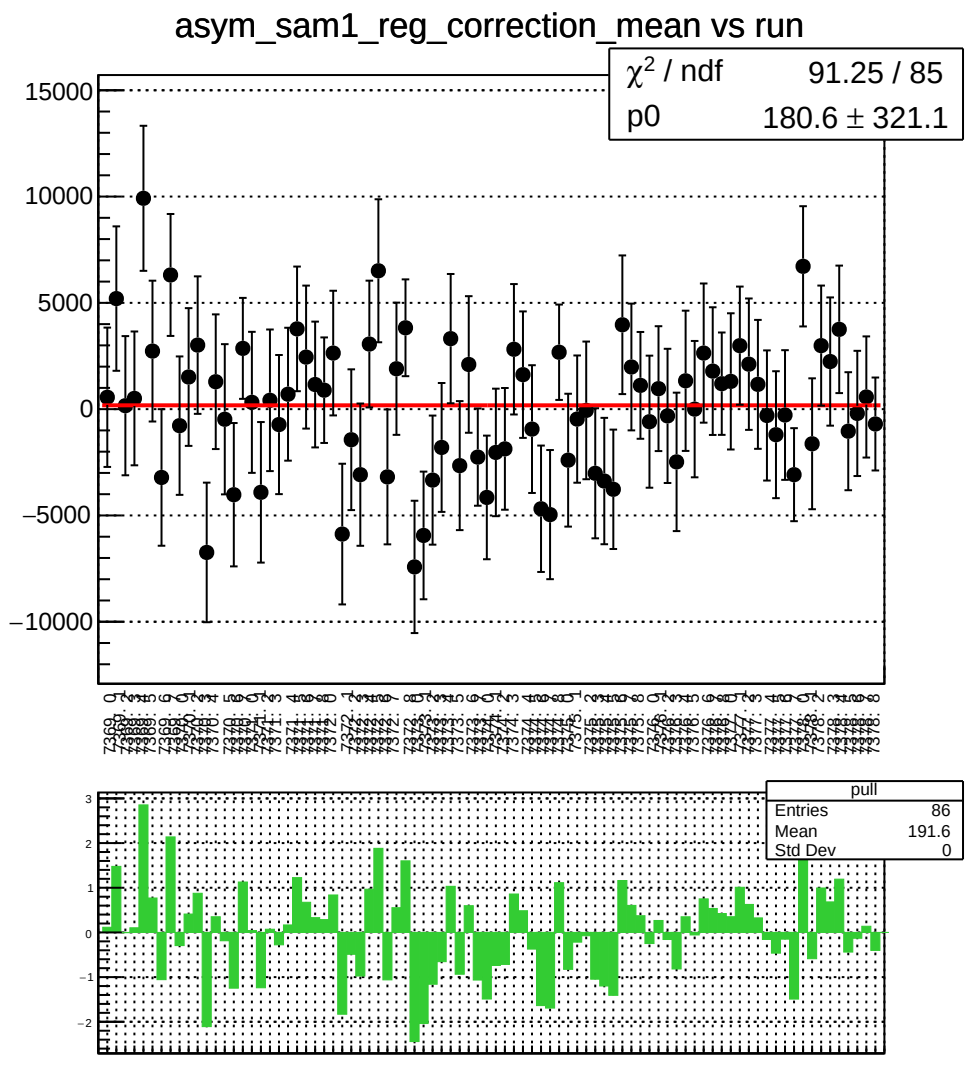

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

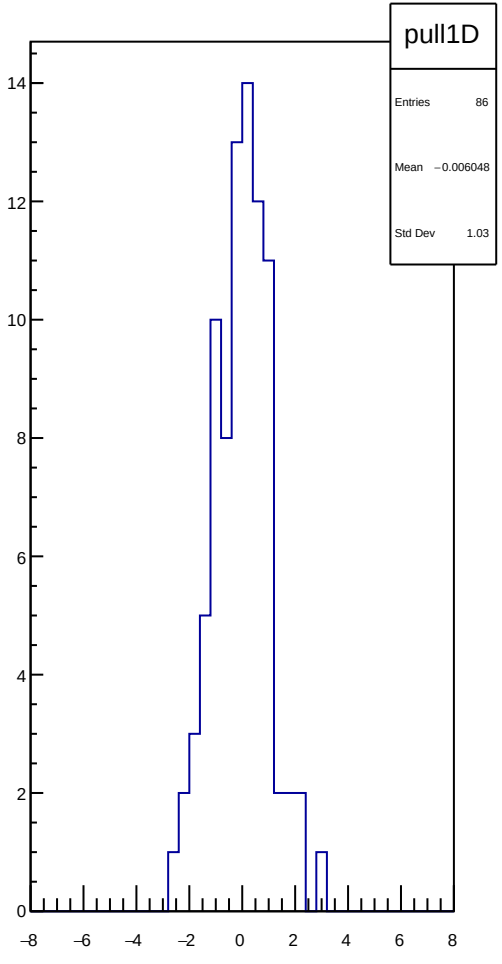

yield_sam8_rms vs run
χ² / ndf 3.661e+05 / 85
p0 0.008023 ± 6.988e−06
0.06
0.05
0.04
0.03
0.02
0.01

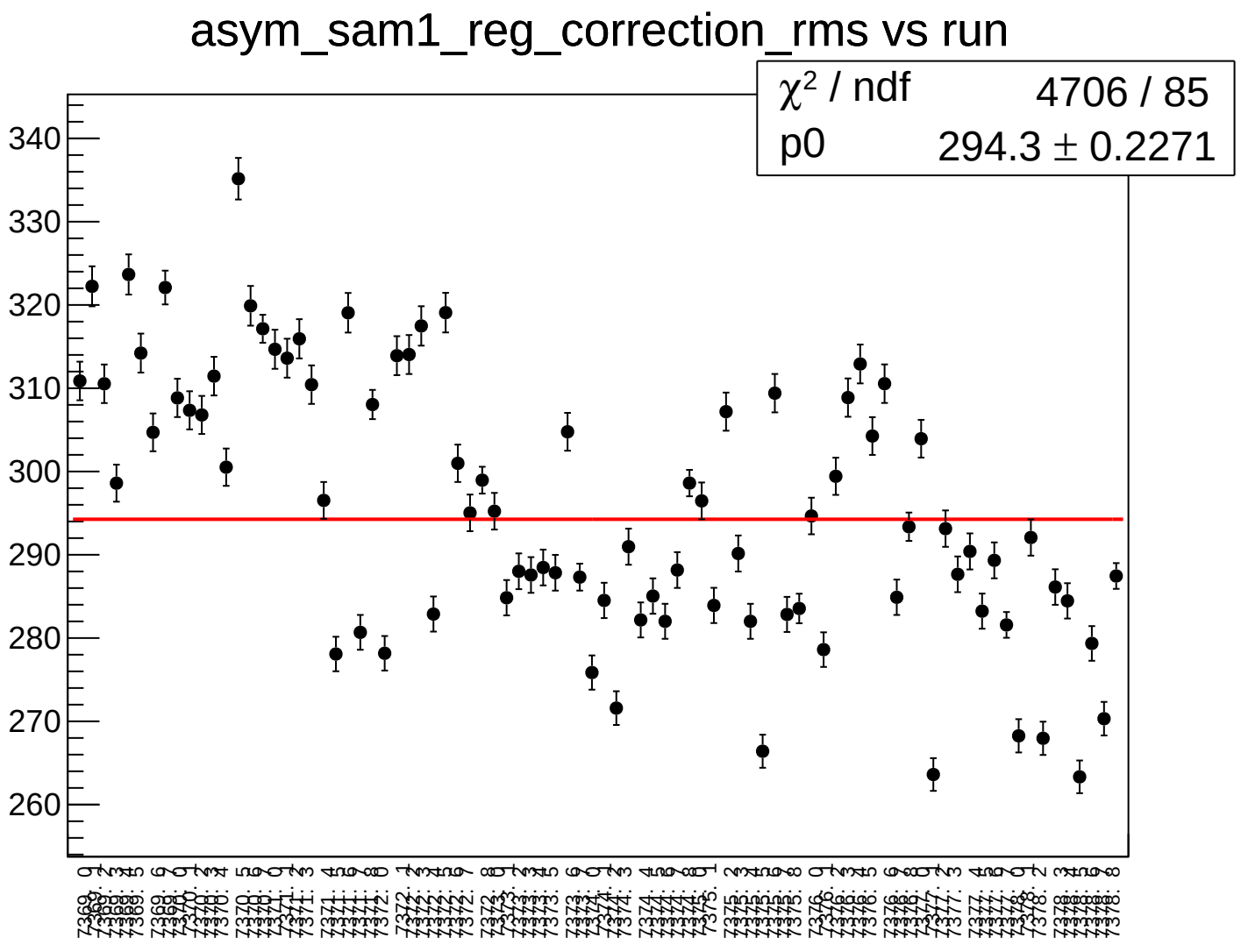

reg_asym_sam1_mean vs run
χ² / ndf 102.1 / 85
p0 −222.6 ± 92.97
pull
Entries 86
Mean −159.3
Std Dev 0

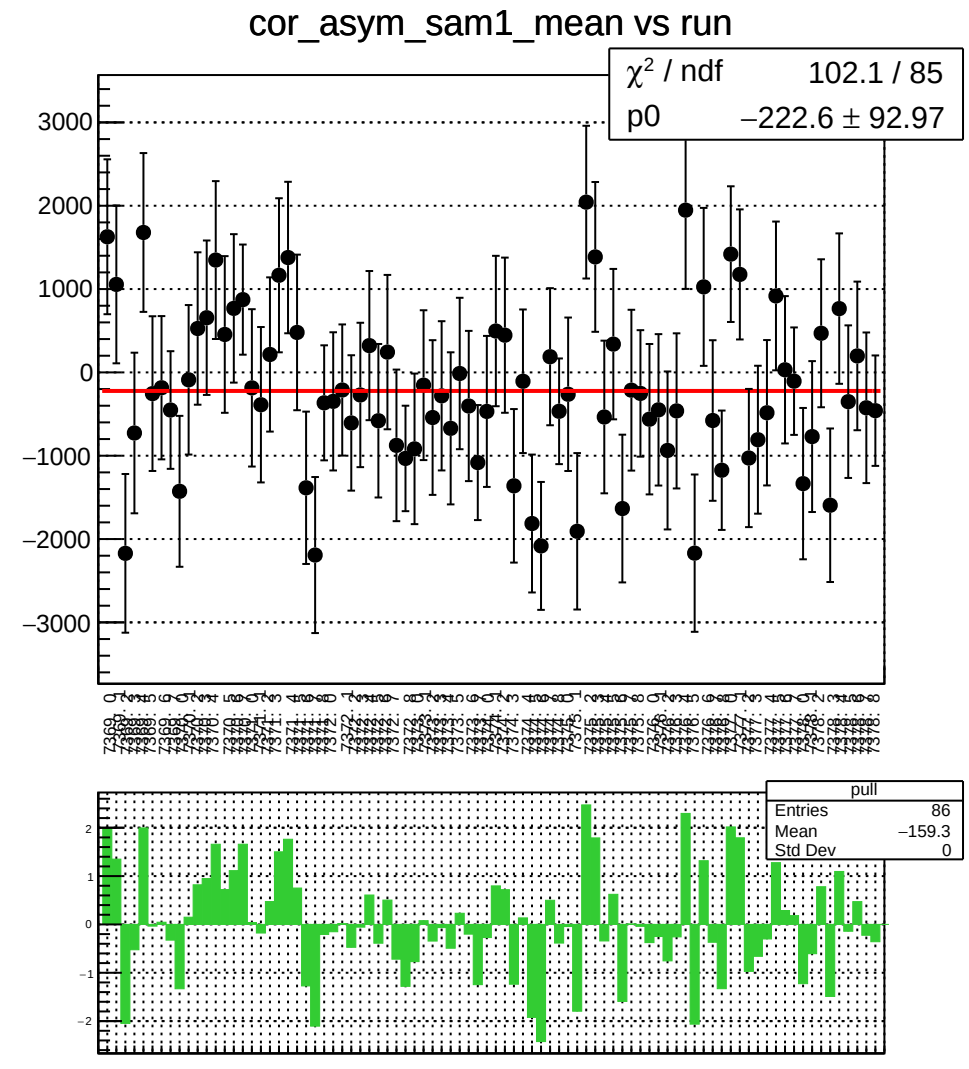

pull1D
Entries 86
Mean 0.0157
Std Dev 1.09

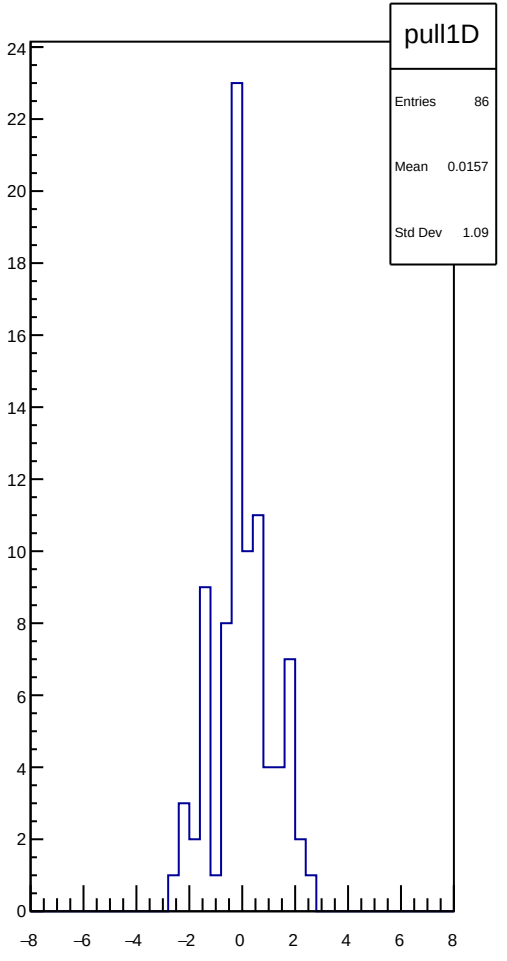

reg_asym_sam1_rms vs run
χ² / ndf 3726 / 85
p0 85.22 ± 0.06574
94
92
90
88
86
84
82
80
78
76
74
72

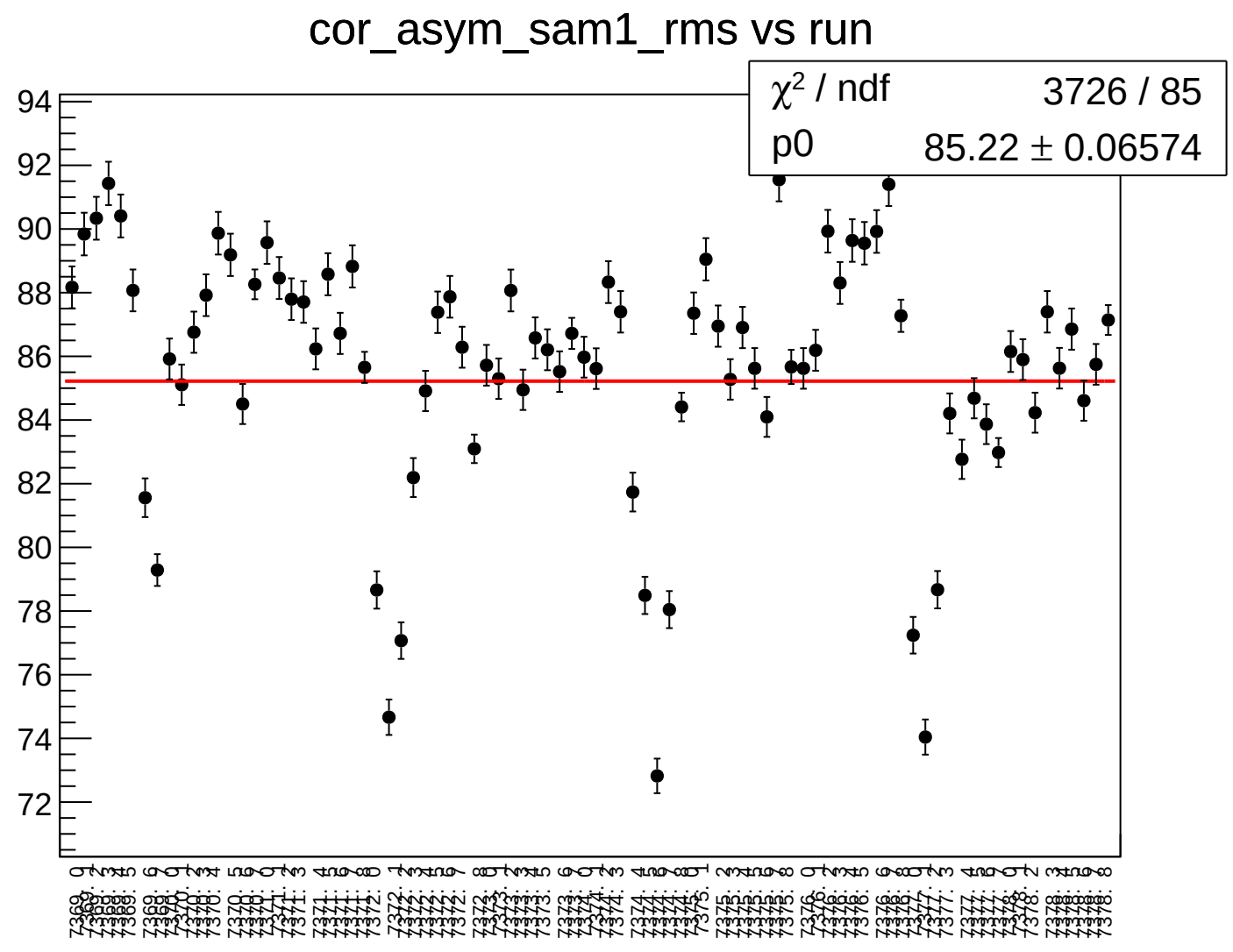

asym_sam1_reg_correction_mean vs run
χ² / ndf 91.25 / 85
p0 180.6 ± 321.1
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 191.6
Std Dev 0
3
2
1
0
−1
−2

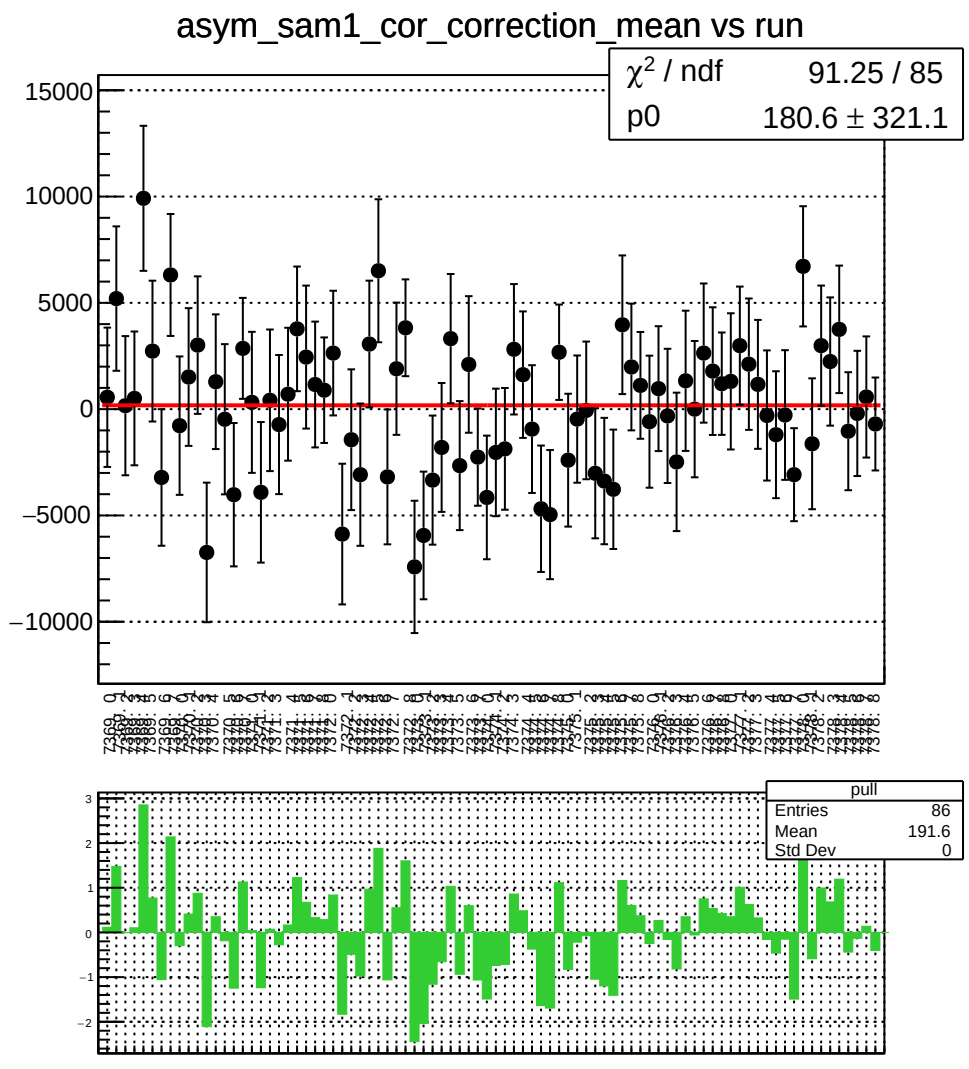

pull1D
Entries 86
Mean −0.006048
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

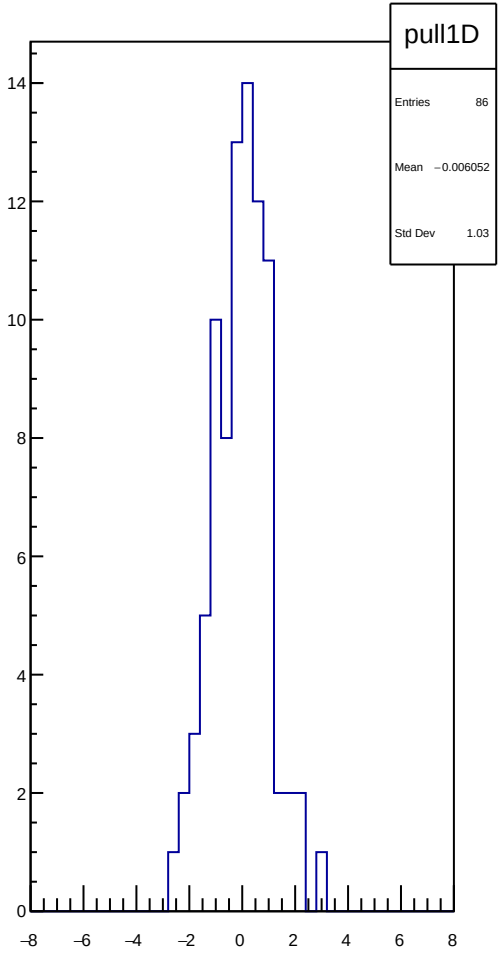

asym_sam1_reg_correction_rms vs run
χ² / ndf 4706 / 85
p0 294.3 ± 0.2271
340
330
320
310
300
290
280
270
260

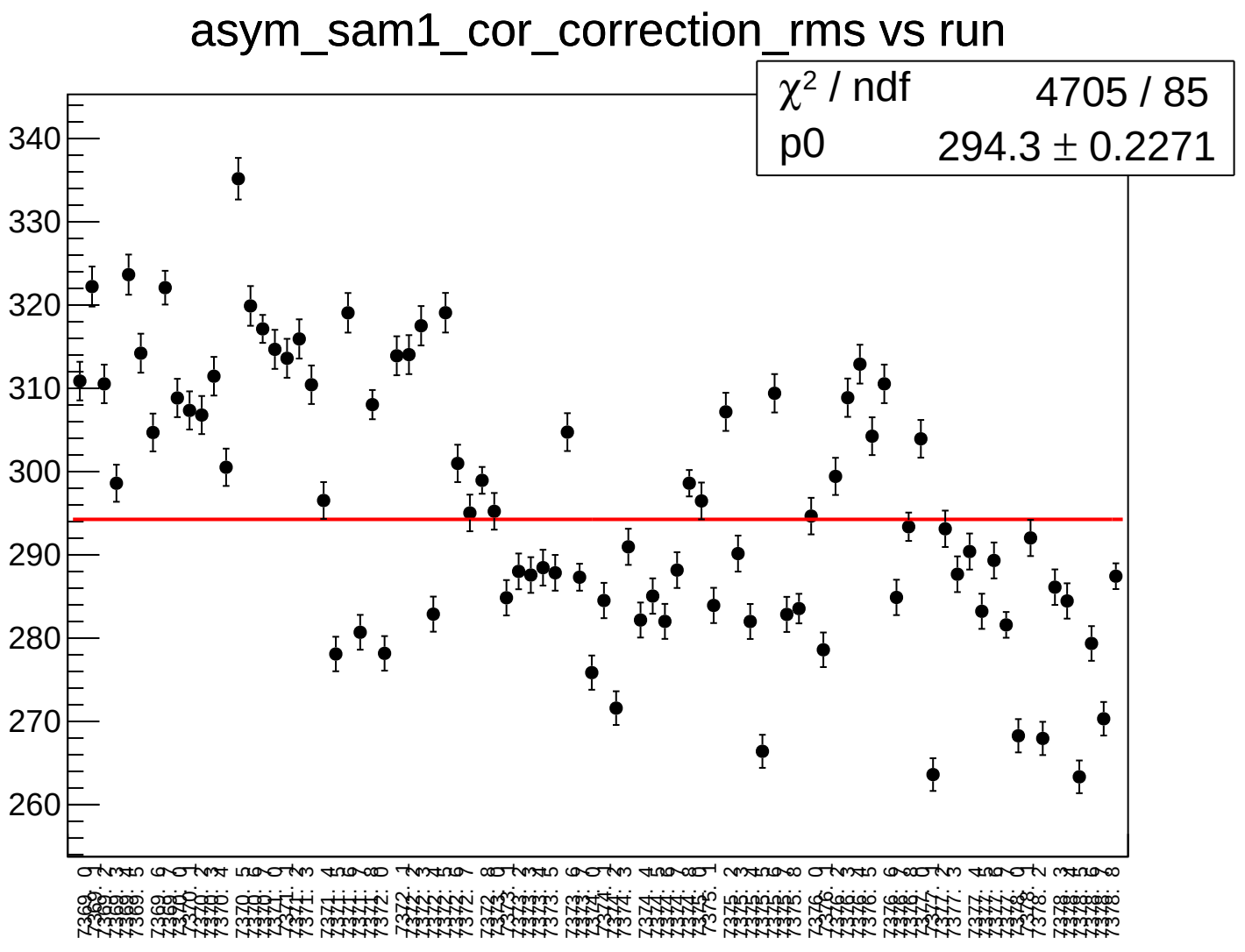

cor_asym_sam1_mean vs run
χ² / ndf 102.1 / 85
p0 −222.6 ± 92.97
pull
Entries 86
Mean −159.3
Std Dev 0

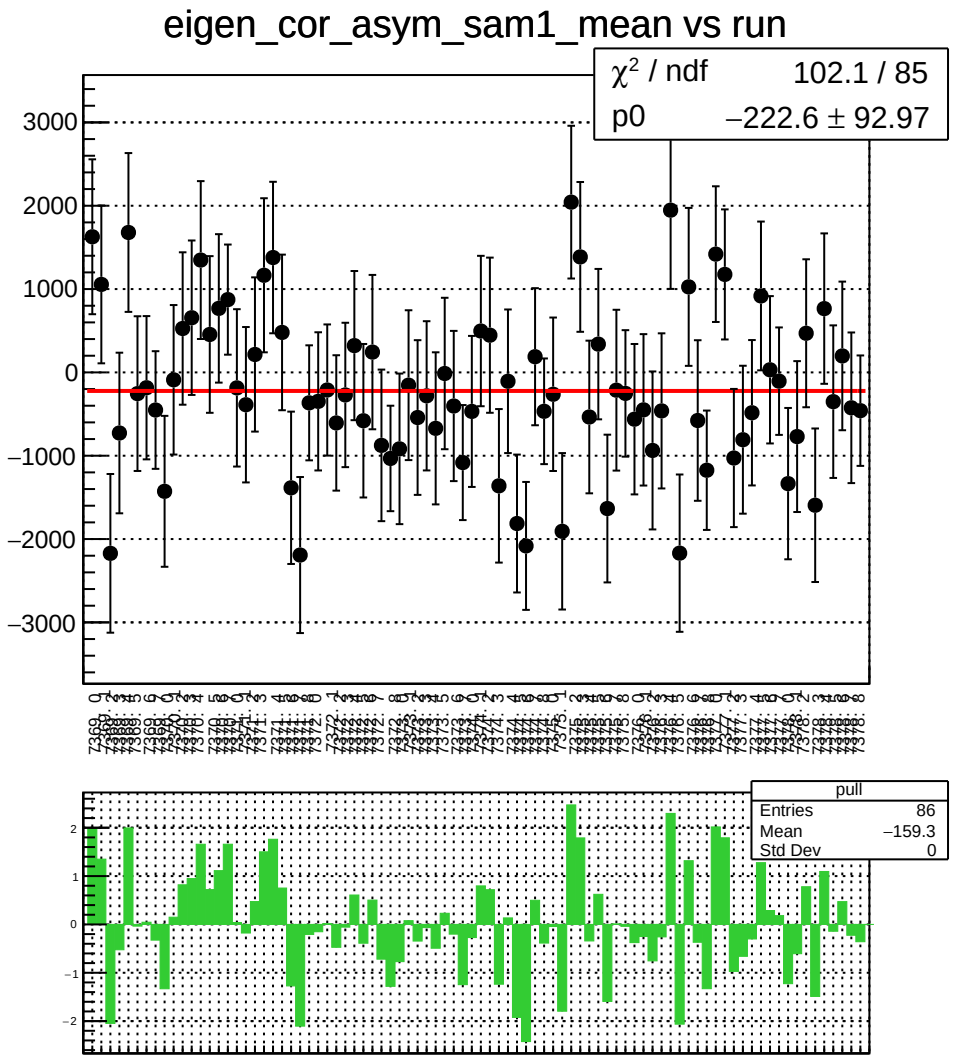

pull1D
Entries 86
Mean 0.0157
Std Dev 1.09

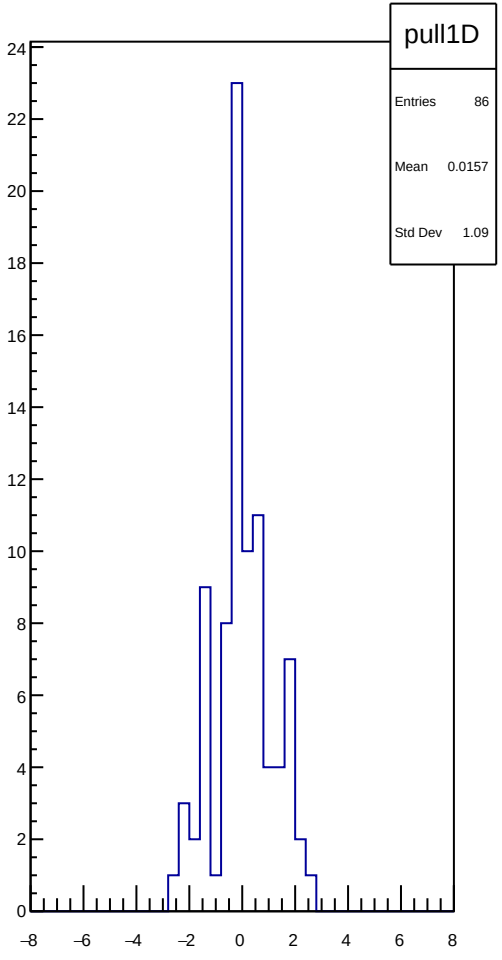

cor_asym_sam1_rms vs run
χ² / ndf 3726 / 85
p0 85.22 ± 0.06574
94
92
90
88
86
84
82
80
78
76
74
72

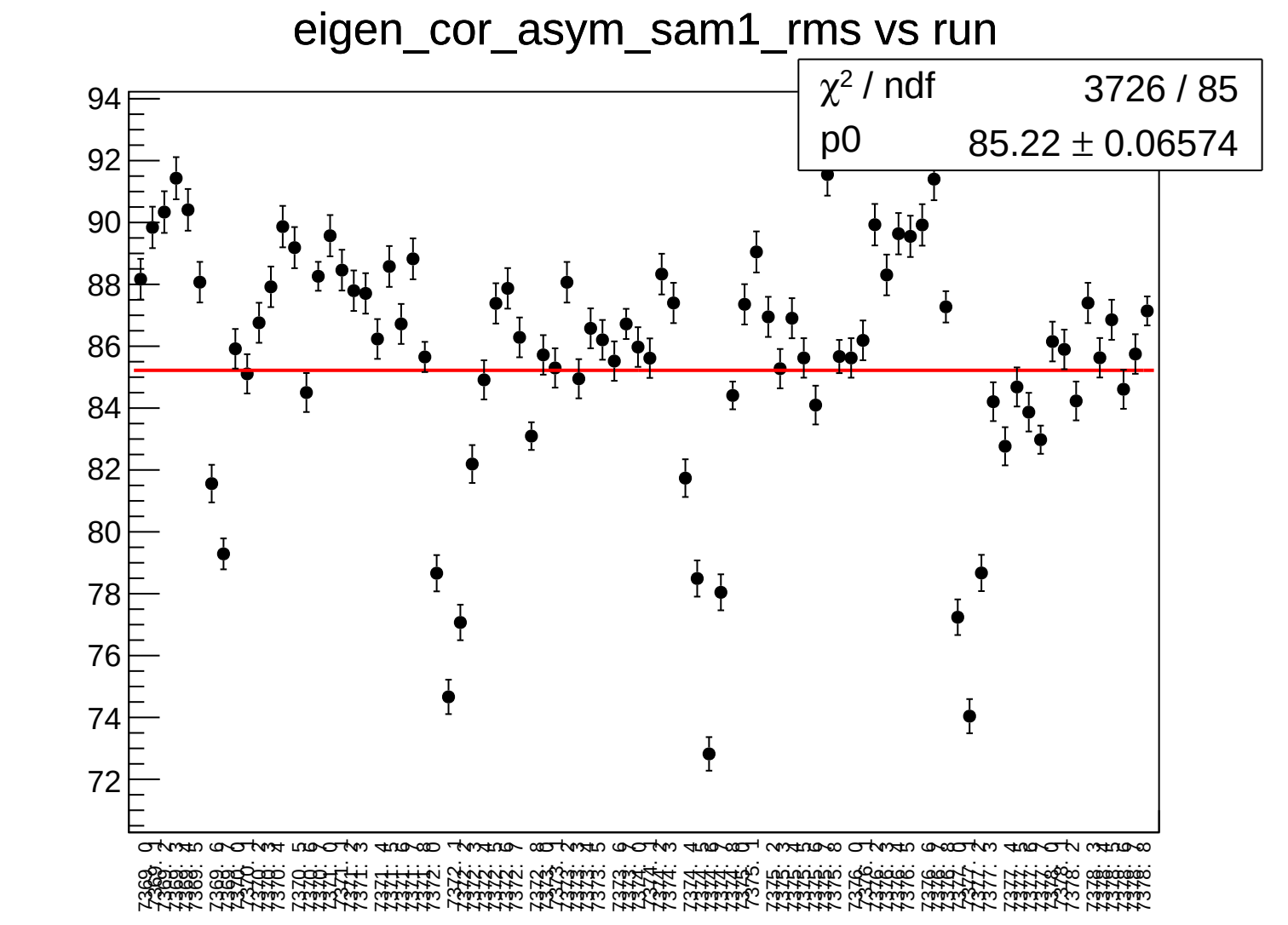

asym_sam1_cor_correction_mean vs run
χ² / ndf 91.25 / 85
p0 180.6 ± 321.1
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 191.6
Std Dev 0
3
2
1
0
−1
−2

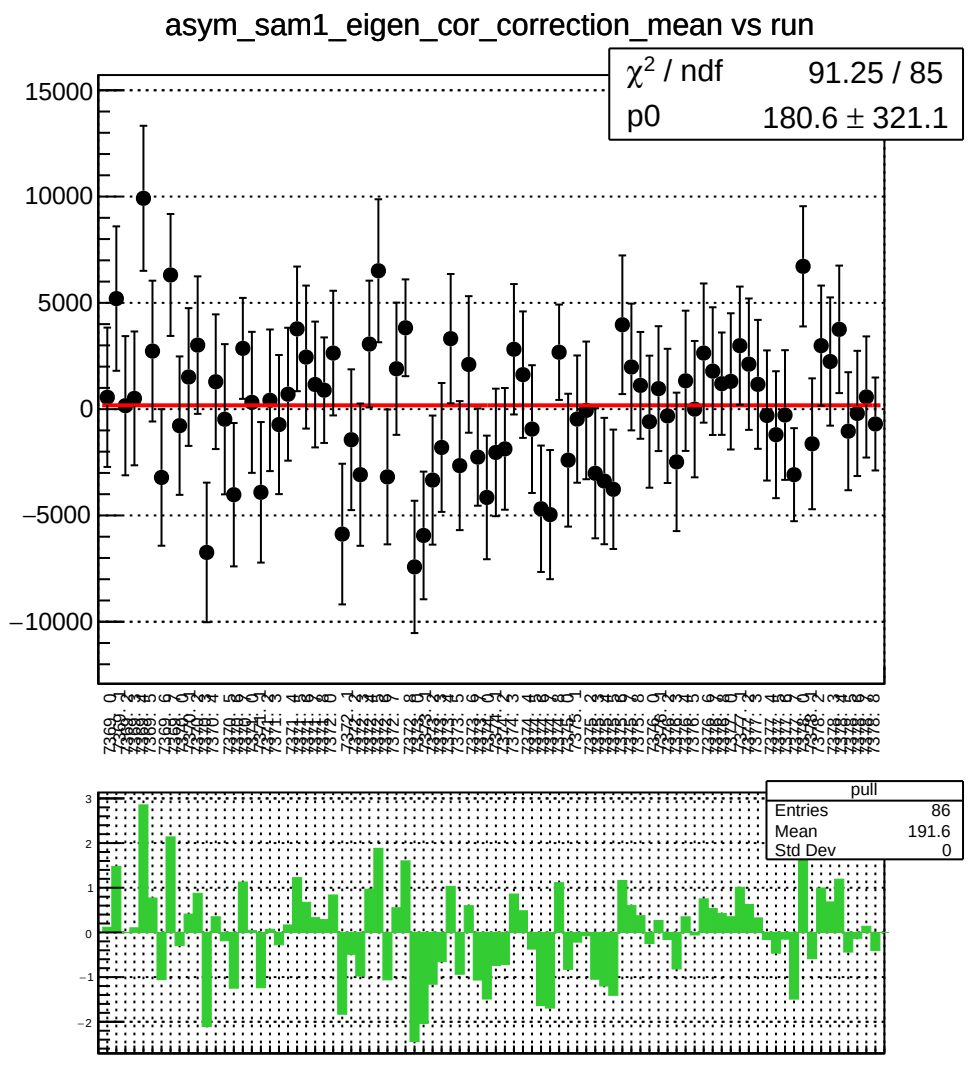

pull1D
Entries 86
Mean −0.006052
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

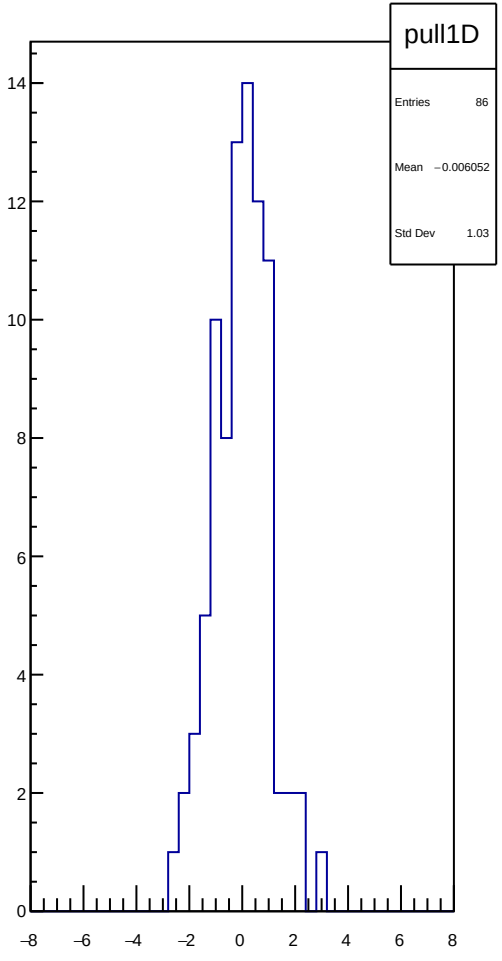

asym_sam1_cor_correction_rms vs run
χ² / ndf 4705 / 85
p0 294.3 ± 0.2271
340
330
320
310
300
290
280
270
260

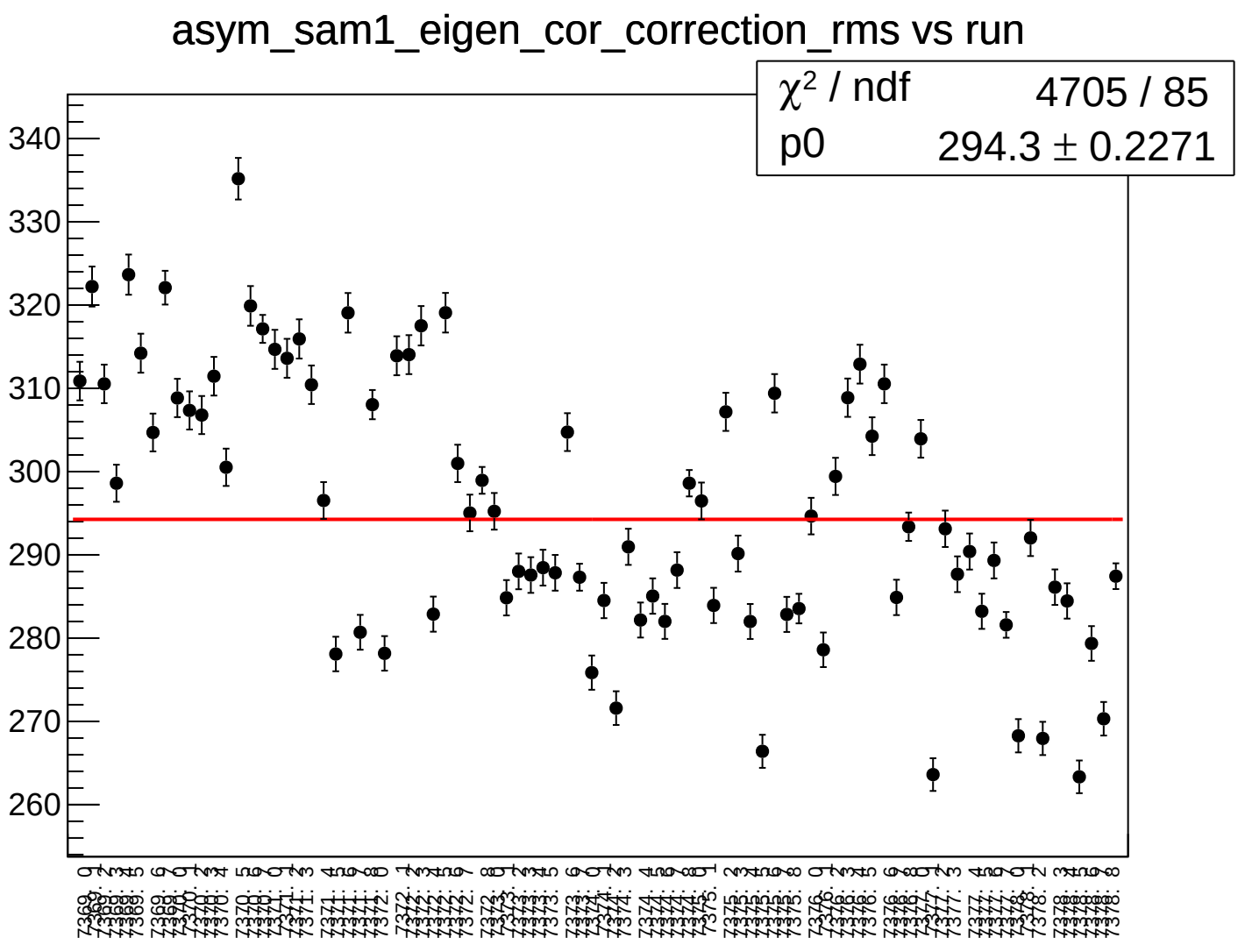

eigen_cor_asym_sam1_mean vs run
χ² / ndf 102.1 / 85
p0 −222.6 ± 92.97
pull
Entries 86
Mean −159.3
Std Dev 0

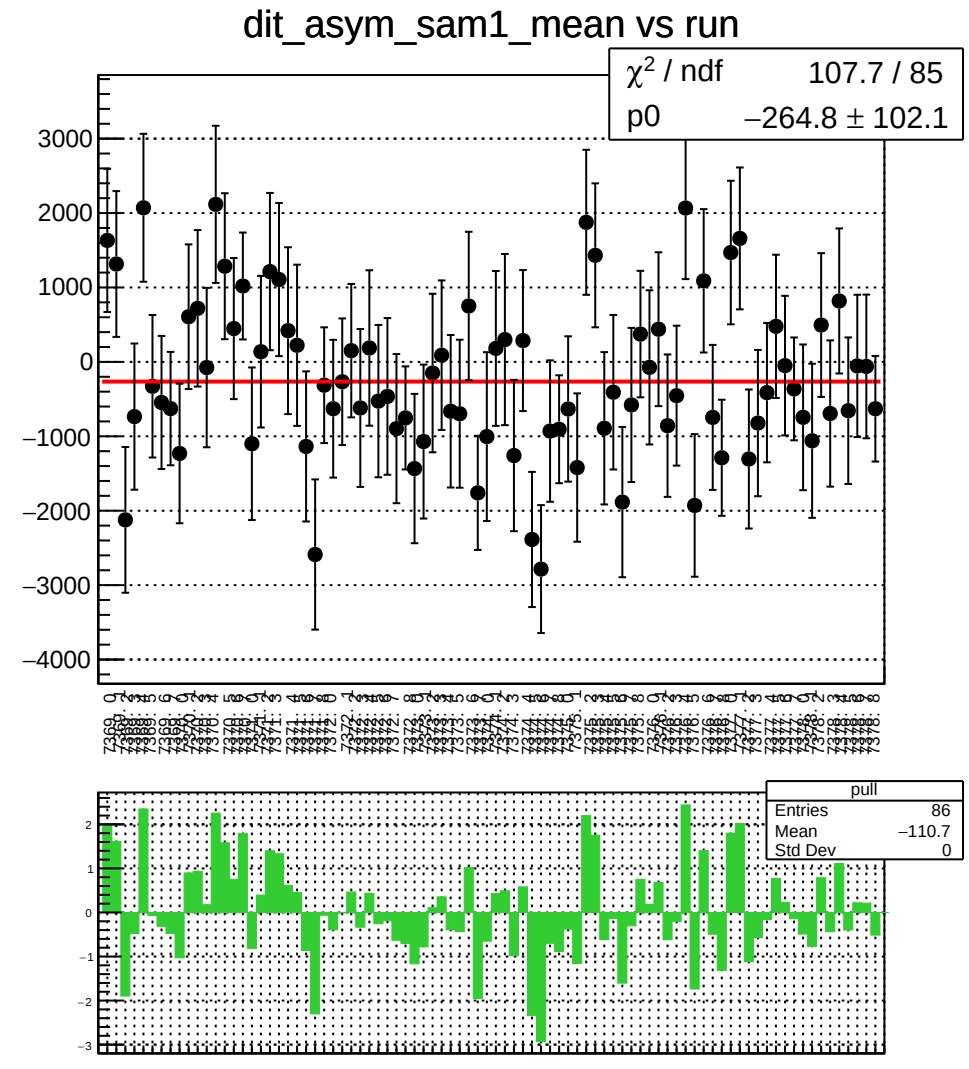

pull1D
Entries 86
Mean 0.0157
Std Dev 1.09

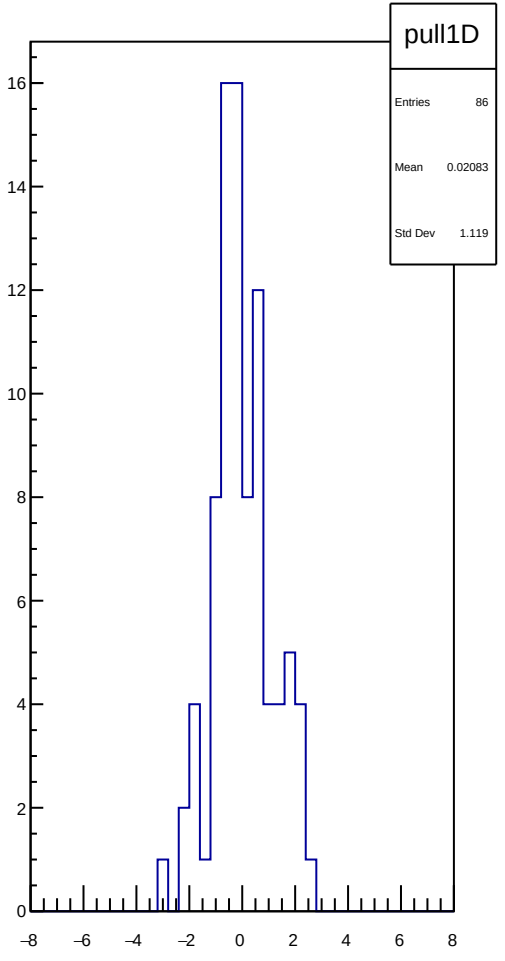

eigen_cor_asym_sam1_rms vs run
χ² / ndf 3726 / 85
p0 85.22 ± 0.06574
94
92
90
88
86
84
82
80
78
76
74
72

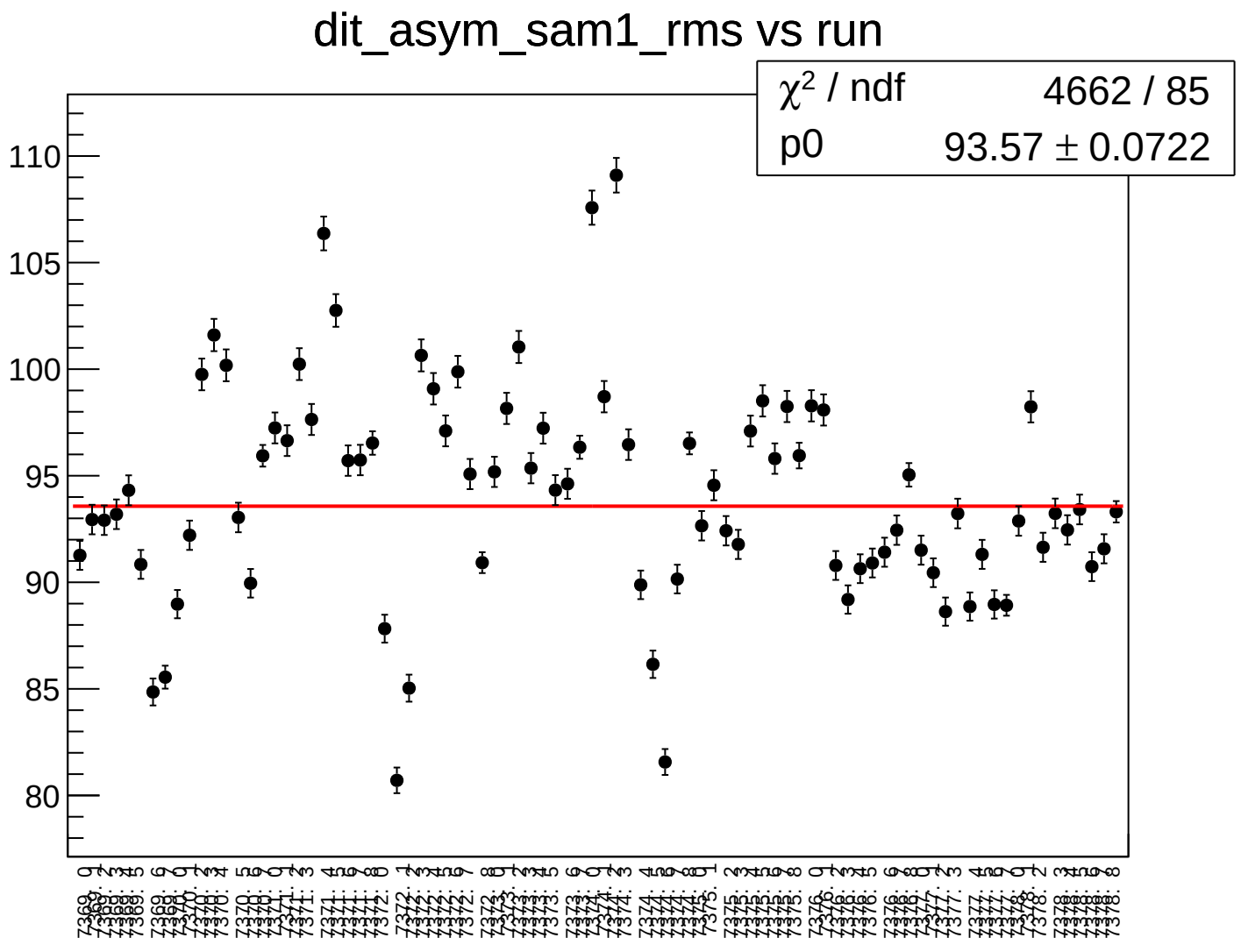

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 91.25 / 85
p0 180.6 ± 321.1
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 191.6
Std Dev 0
3
2
1
0
−1
−2

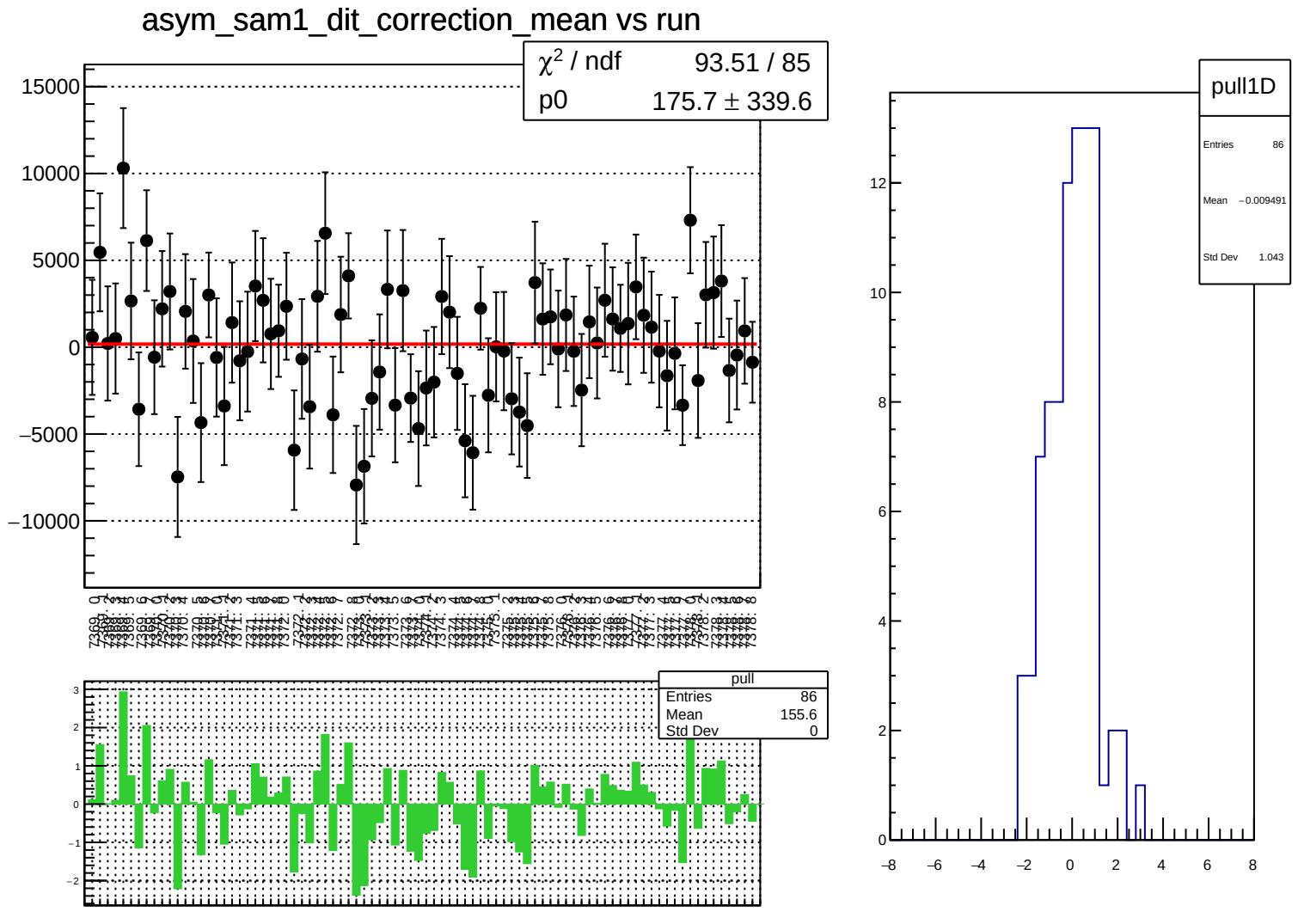

pull1D
Entries 86
Mean −0.006052
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

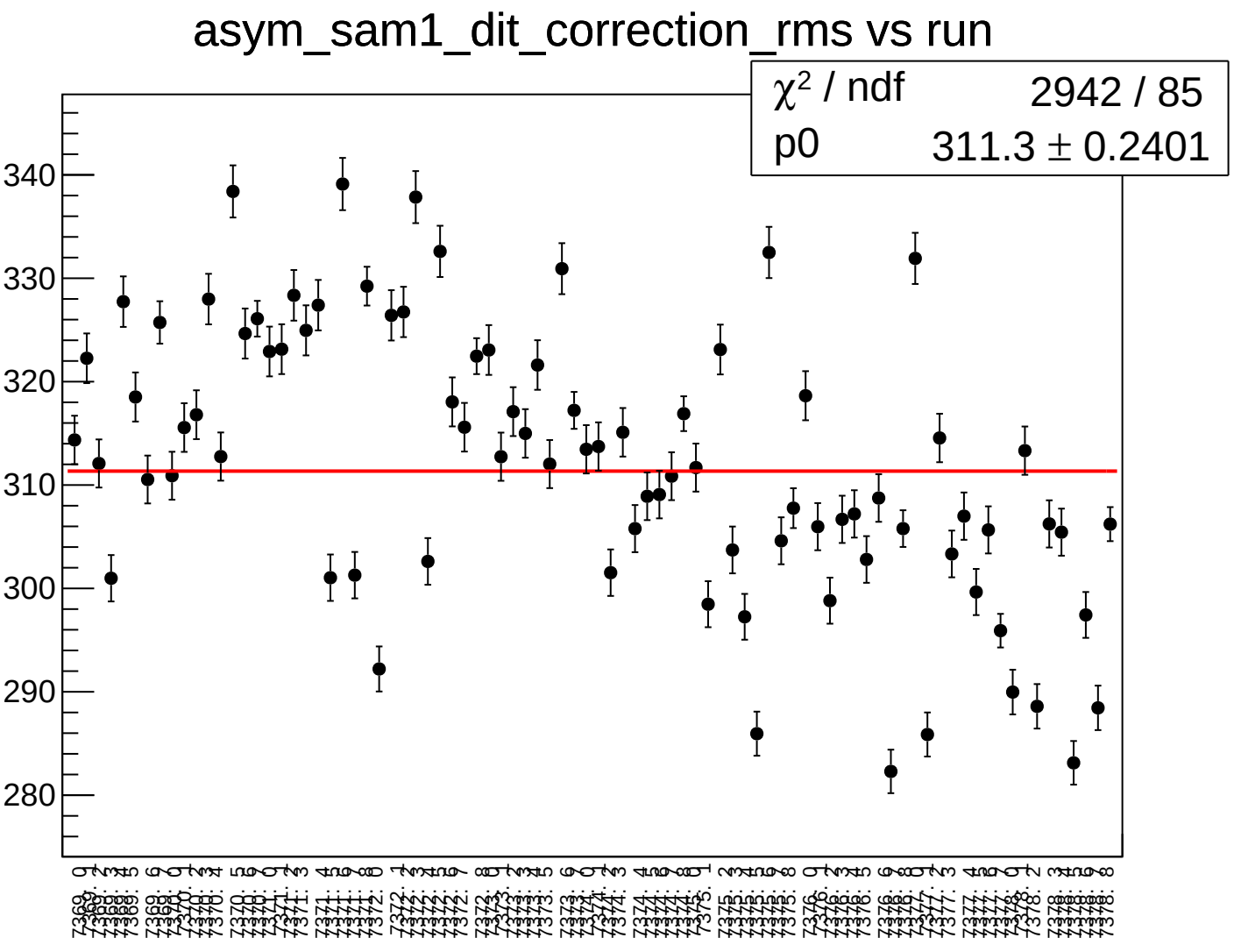

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 4705 / 85
p0 294.3 ± 0.2271
340
330
320
310
300
290
280
270
260

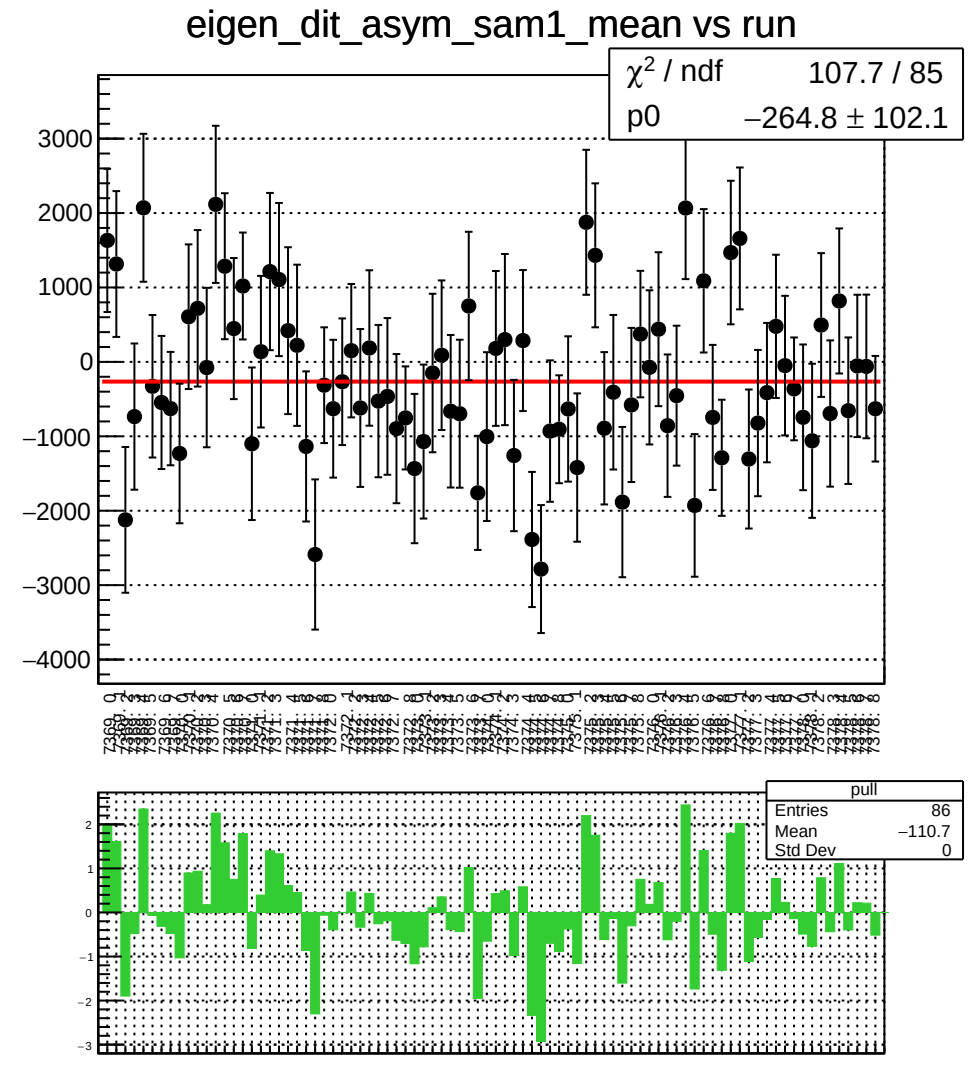

dit_asym_sam1_mean vs run
χ² / ndf 107.7 / 85
p0 −264.8 ± 102.1
pull
Entries 86
Mean −110.7
Std Dev 0

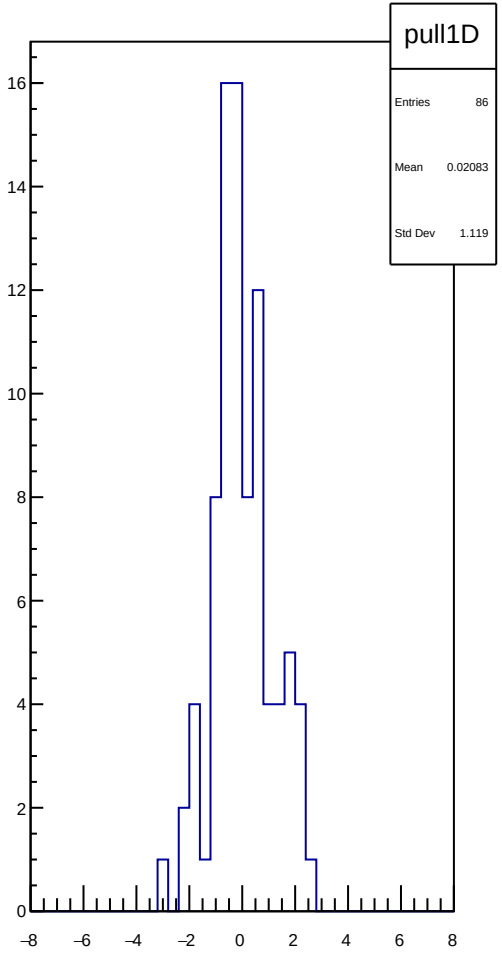

pull1D
Entries 86
Mean 0.02083
Std Dev 1.119

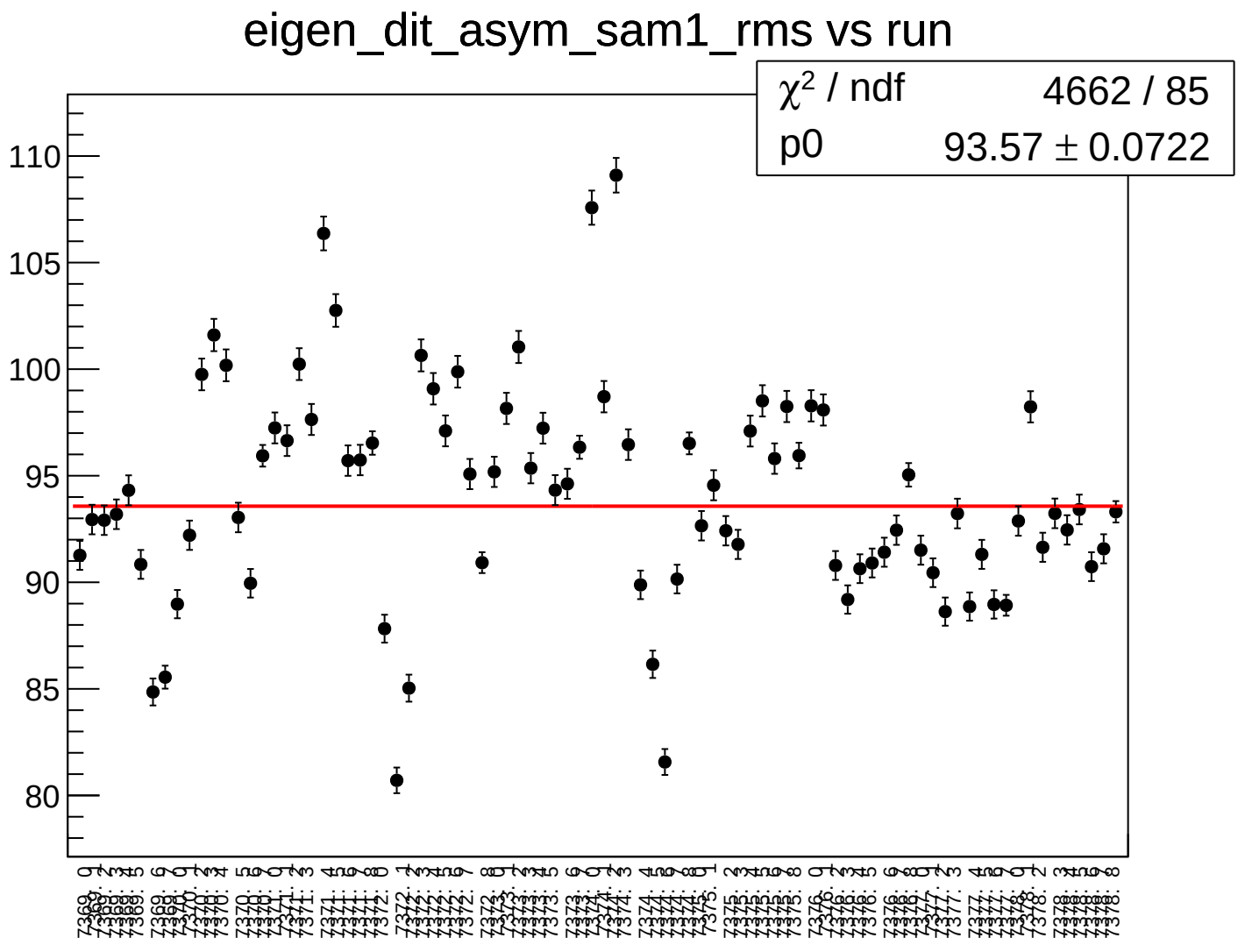

dit_asym_sam1_rms vs run
χ² / ndf 4662 / 85
p0 93.57 ± 0.0722
110
105
100
95
90
85
80

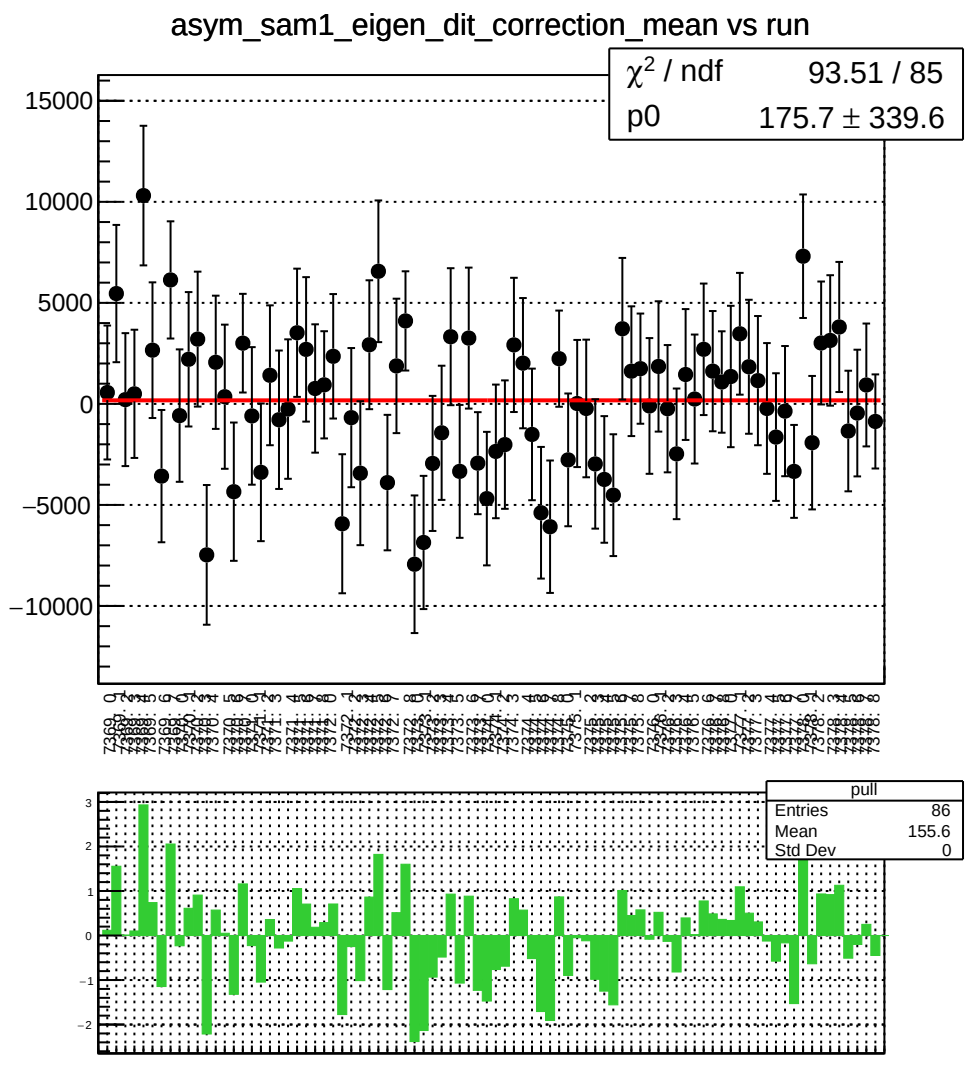

asym_sam1_dit_correction_mean vs run
χ² / ndf 93.51 / 85
p0 175.7 ± 339.6
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 155.6
Std Dev 0
pull1D
Entries 86
Mean −0.009491
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

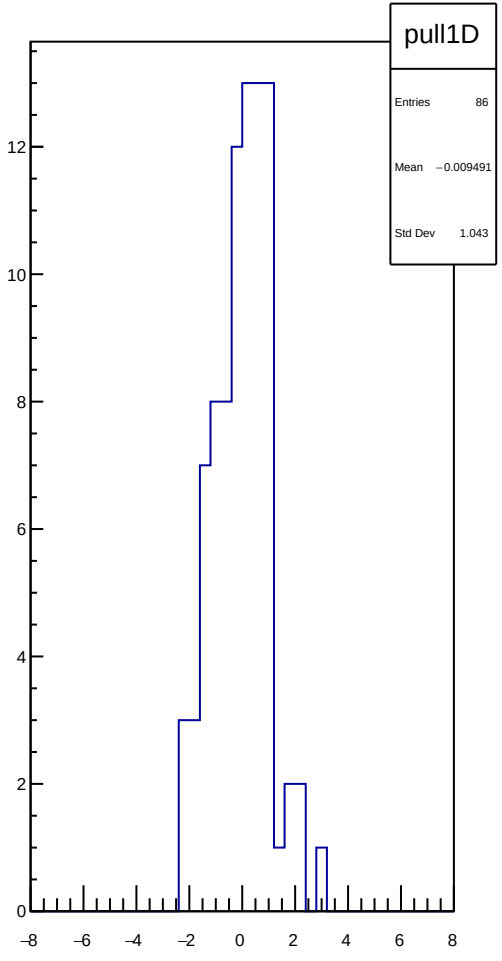

asym_sam1_dit_correction_rms vs run
χ² / ndf 2942 / 85
p0 311.3 ± 0.2401
340
330
320
310
300
290
280

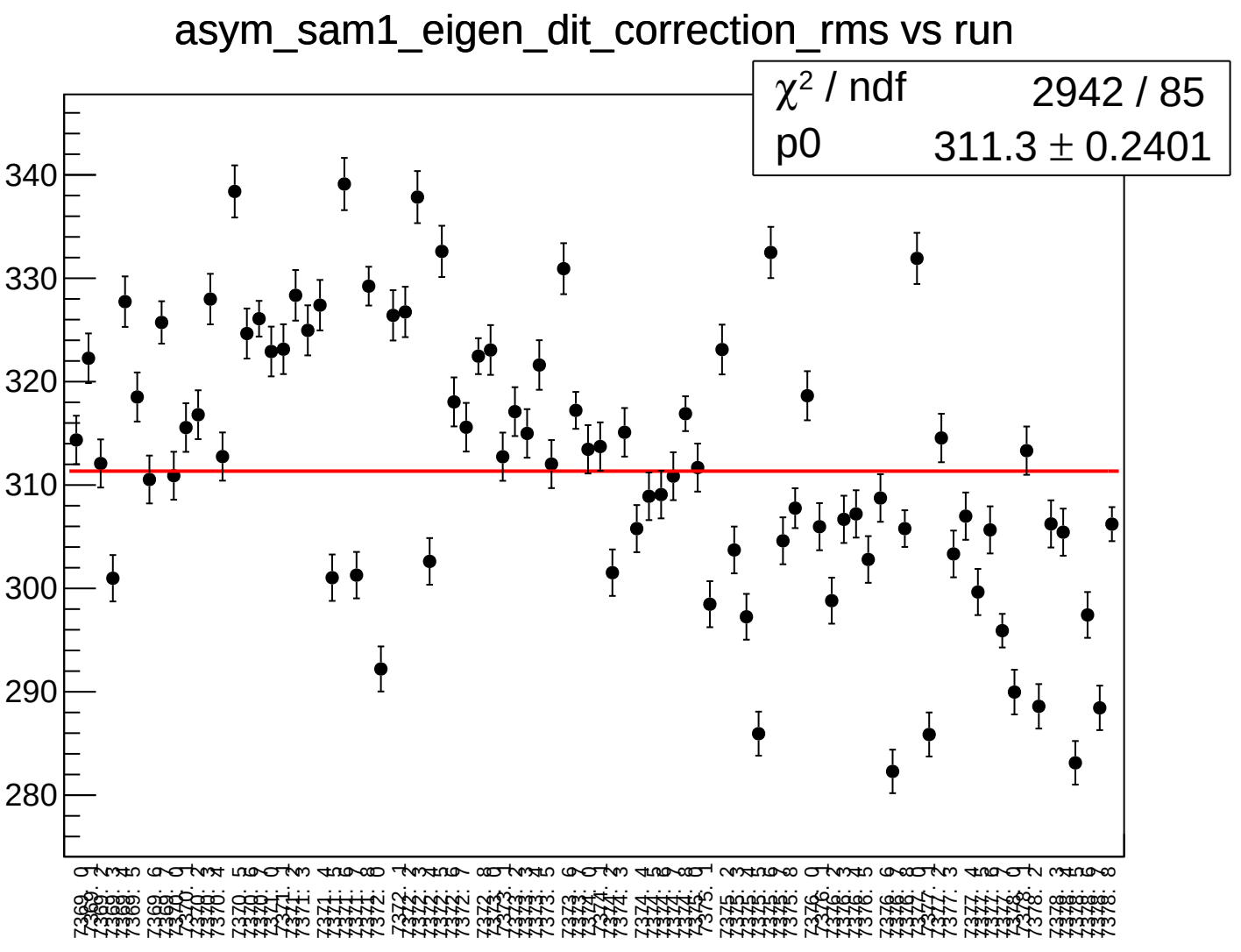

eigen_dit_asym_sam1_mean vs run
χ^2 / ndf 107.7 / 85
p0 −264.8 ± 102.1
pull
Entries 86
Mean −110.7
Std Dev 0

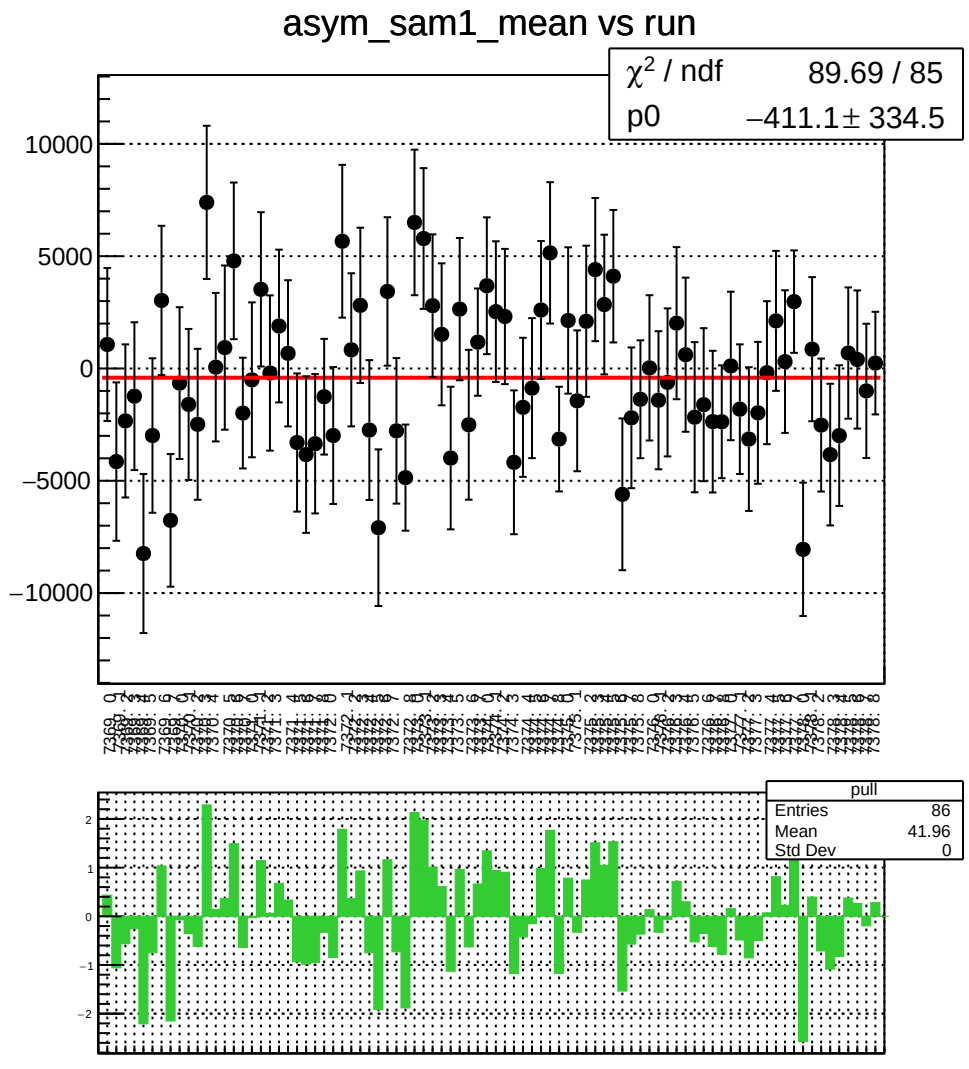

pull1D
Entries 86
Mean 0.02083
Std Dev 1.119

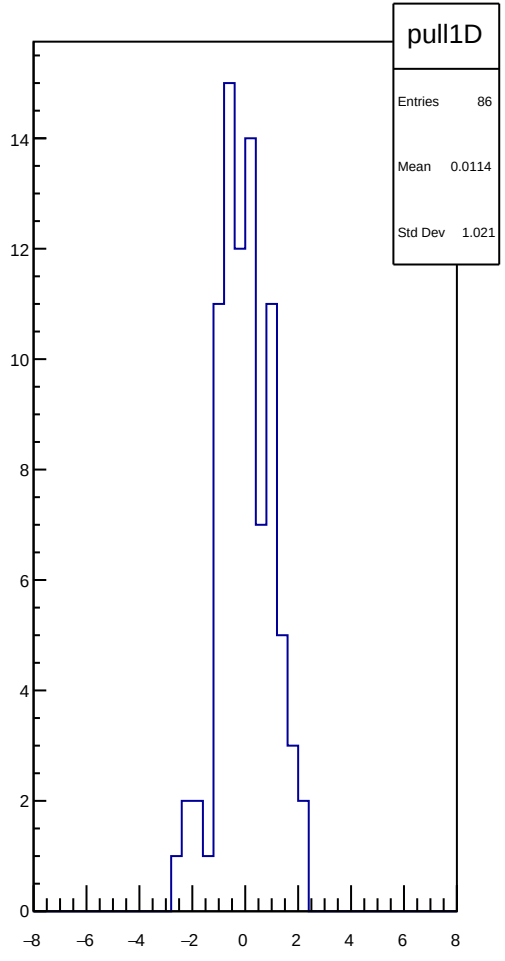

eigen_dit_asym_sam1_rms vs run
χ² / ndf 4662 / 85
p0 93.57 ± 0.0722
110
105
100
95
90
85
80

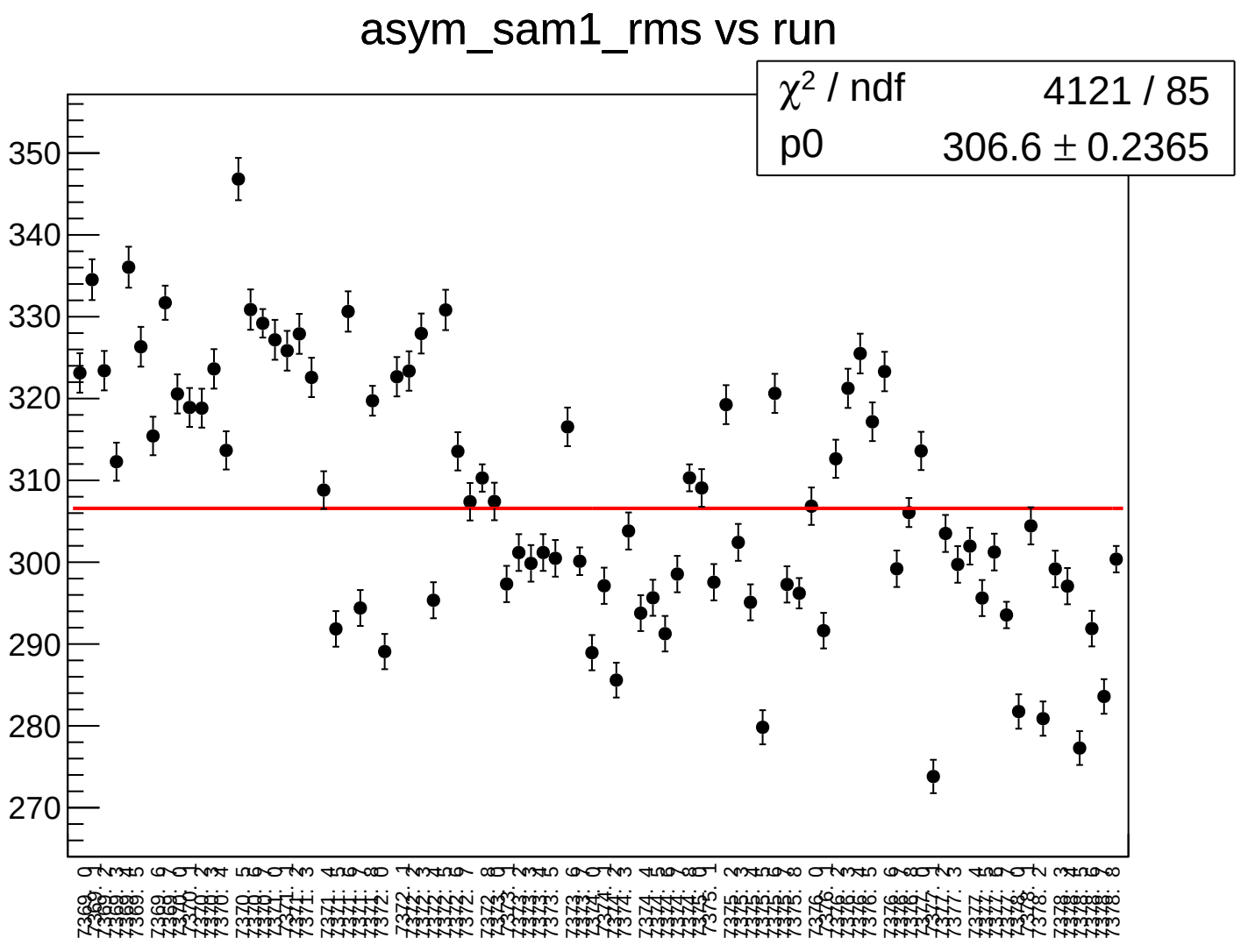

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 93.51 / 85
p0 175.7 ± 339.6
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 155.6
Std Dev 0
3
2
1
0
−1
−2

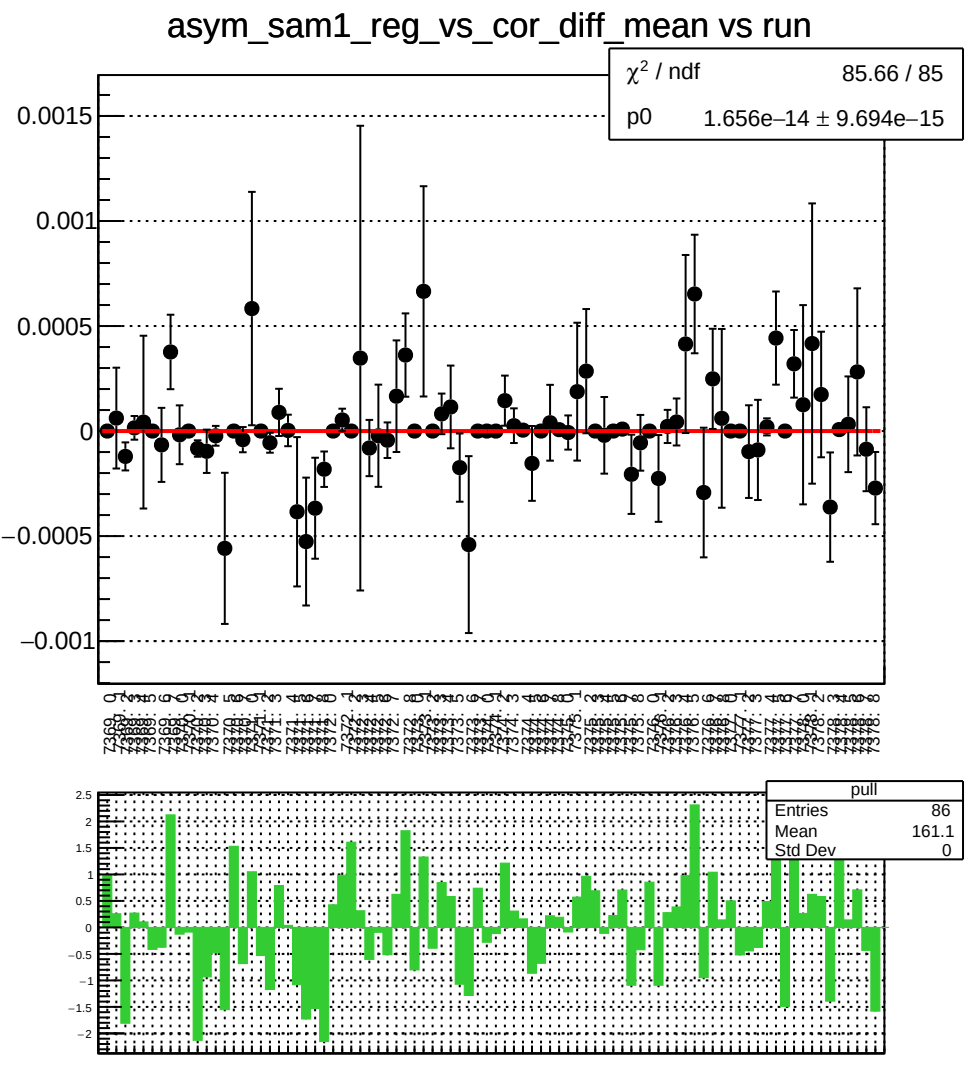

pull1D
Entries 86
Mean −0.009491
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

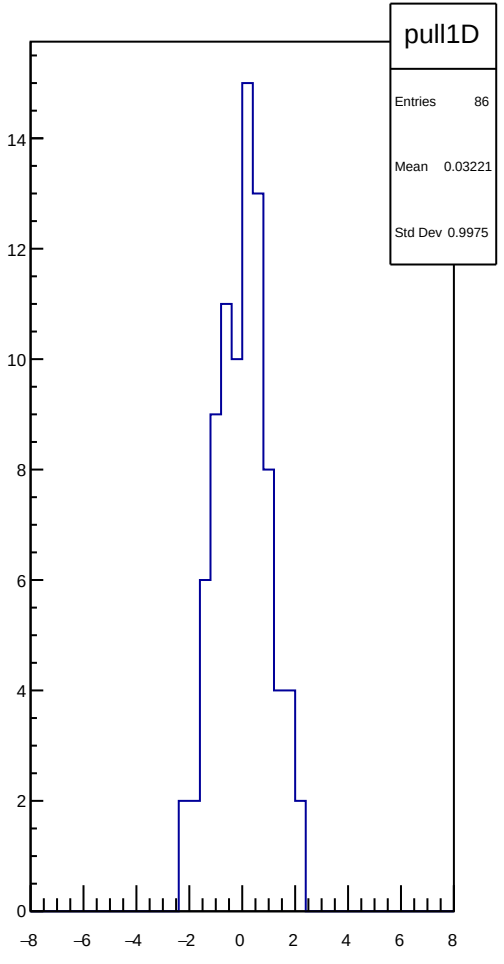

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2942 / 85
p0 311.3 ± 0.2401
340
330
320
310
300
290
280

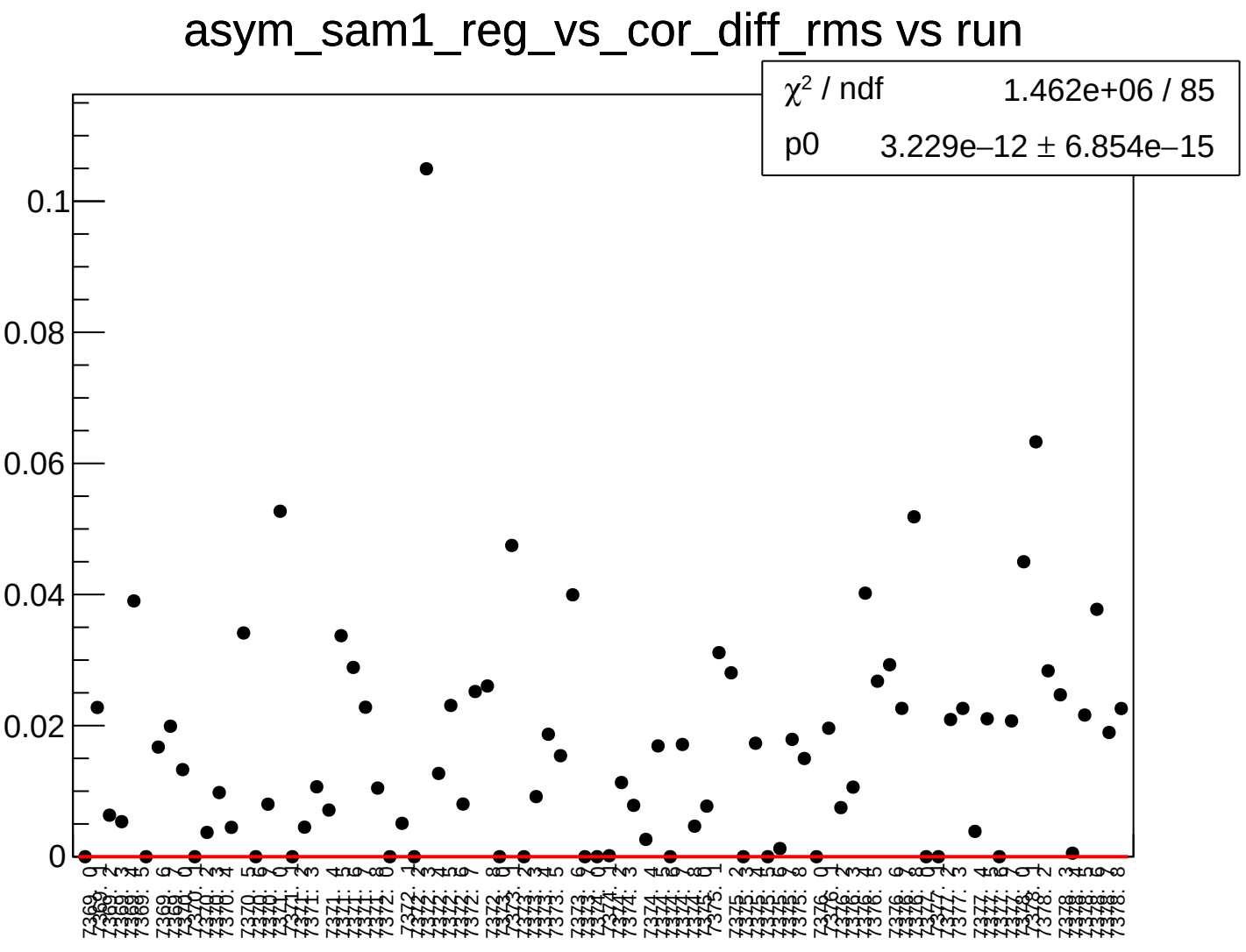

asym_sam1_mean vs run
χ² / ndf 89.69 / 85
p0 −411.1± 334.5
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 41.96
Std Dev 0
2
1
0
−1
−2

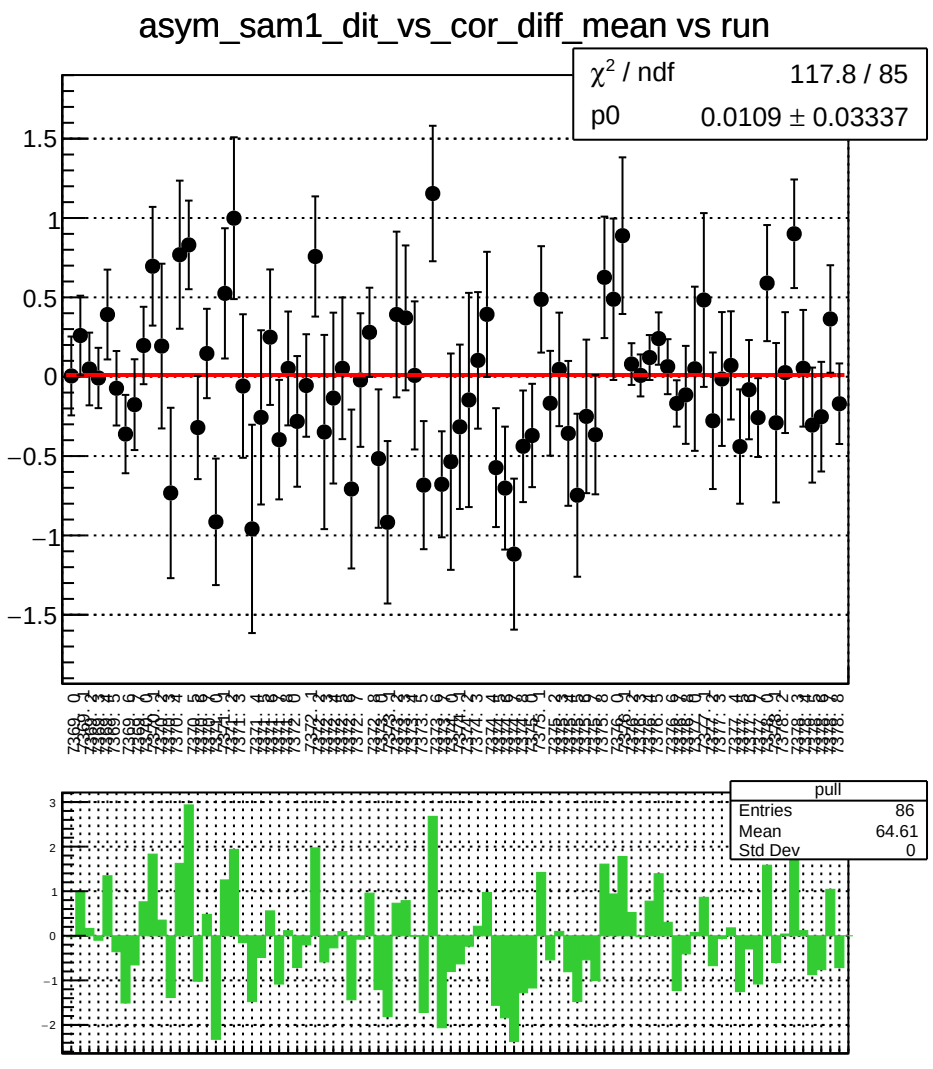

pull1D
Entries 86
Mean 0.0114
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

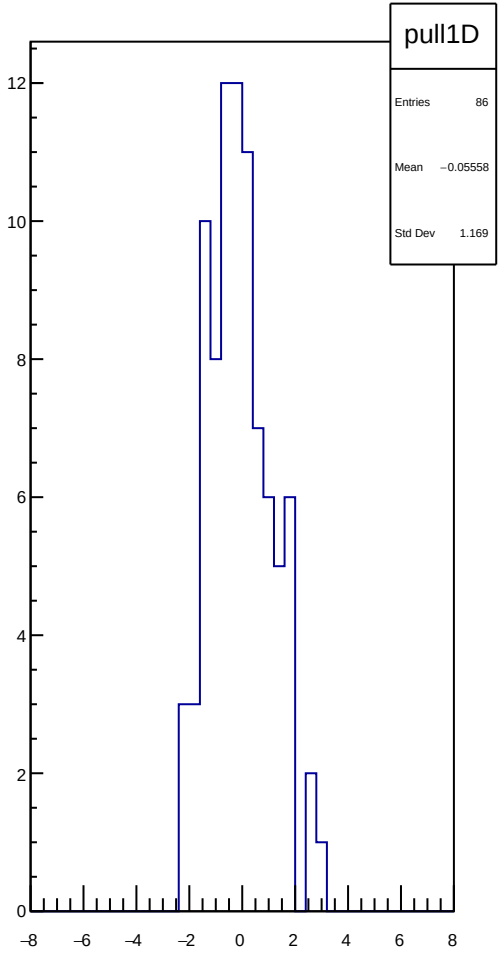

asym_sam1_rms vs run
χ² / ndf 4121 / 85
p0 306.6 ± 0.2365
350
340
330
320
310
300
290
280
270

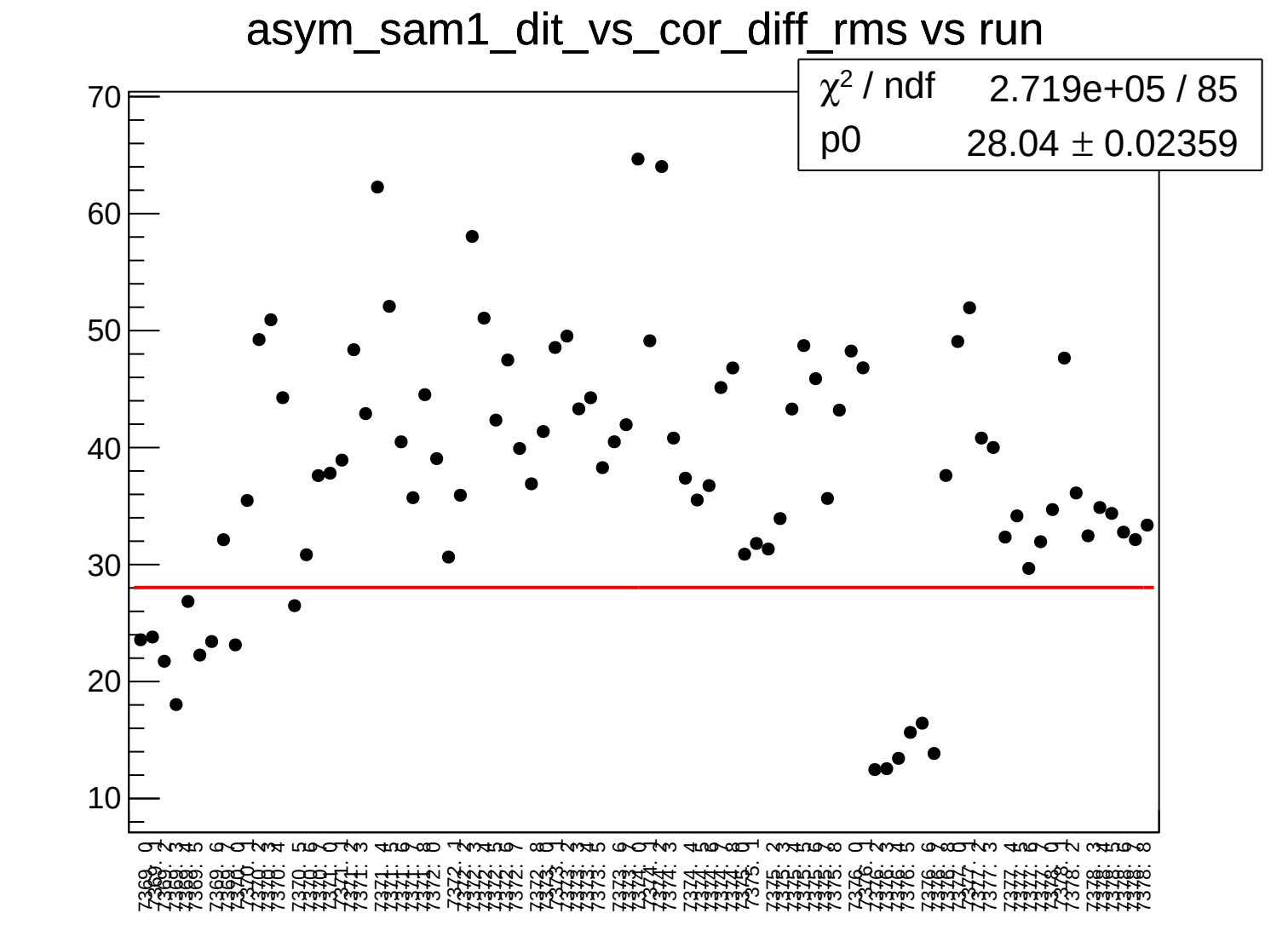

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 85.66 / 85
p0 1.656e−14 ± 9.694e−15
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 161.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

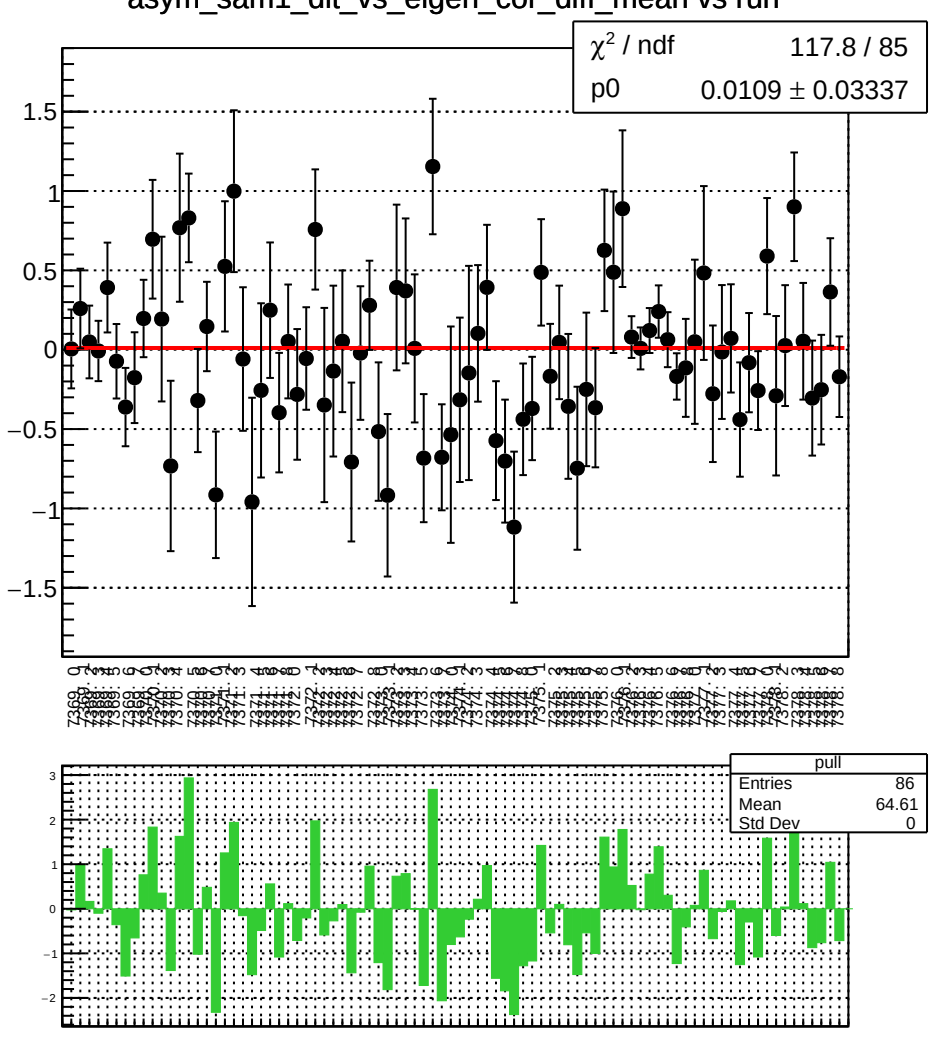

pull1D
Entries 86
Mean 0.03221
Std Dev 0.9975
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

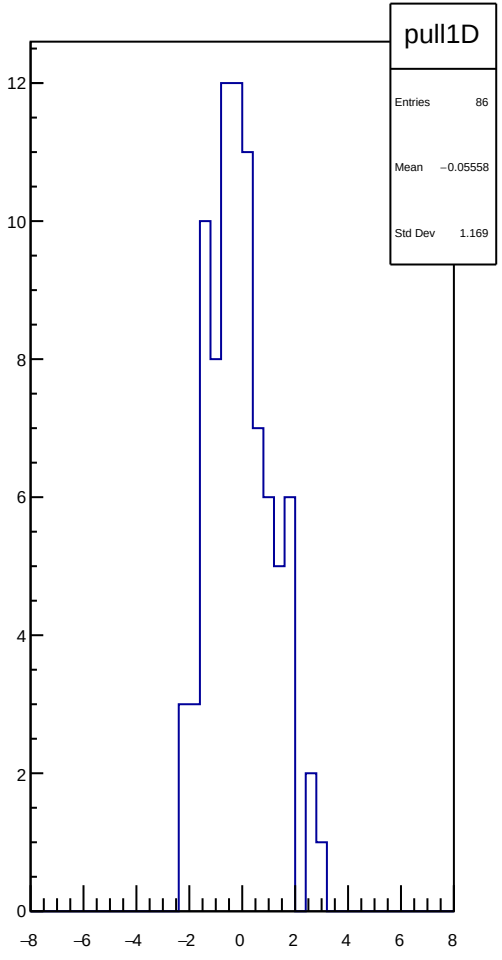

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.462e+06 / 85
p0 3.229e−12 ± 6.854e−15
0.1
0.08
0.06
0.04
0.02
0

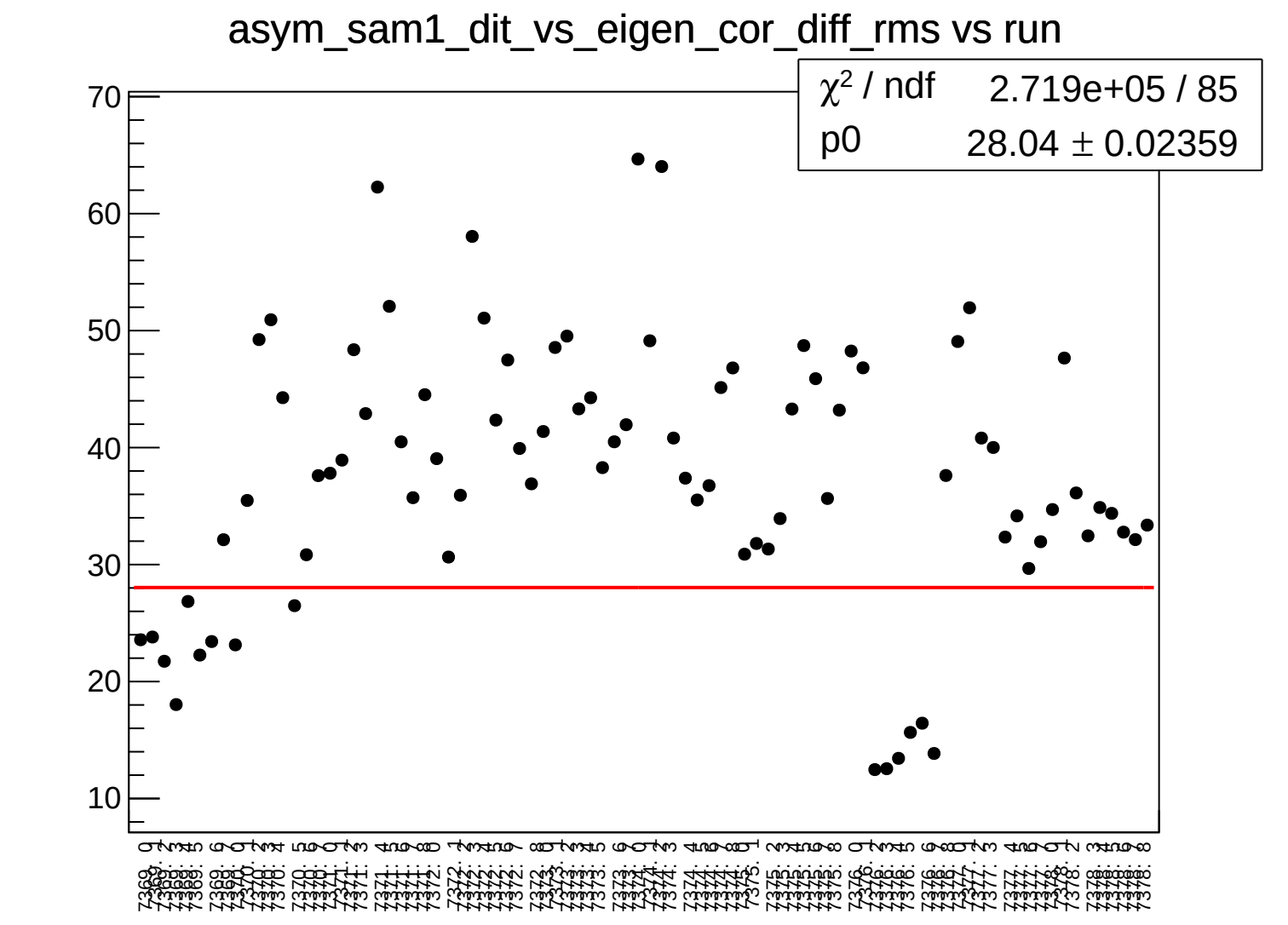

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 117.8 / 85
p0 0.0109 ± 0.03337
pull
Entries 86
Mean 64.61
Std Dev 0

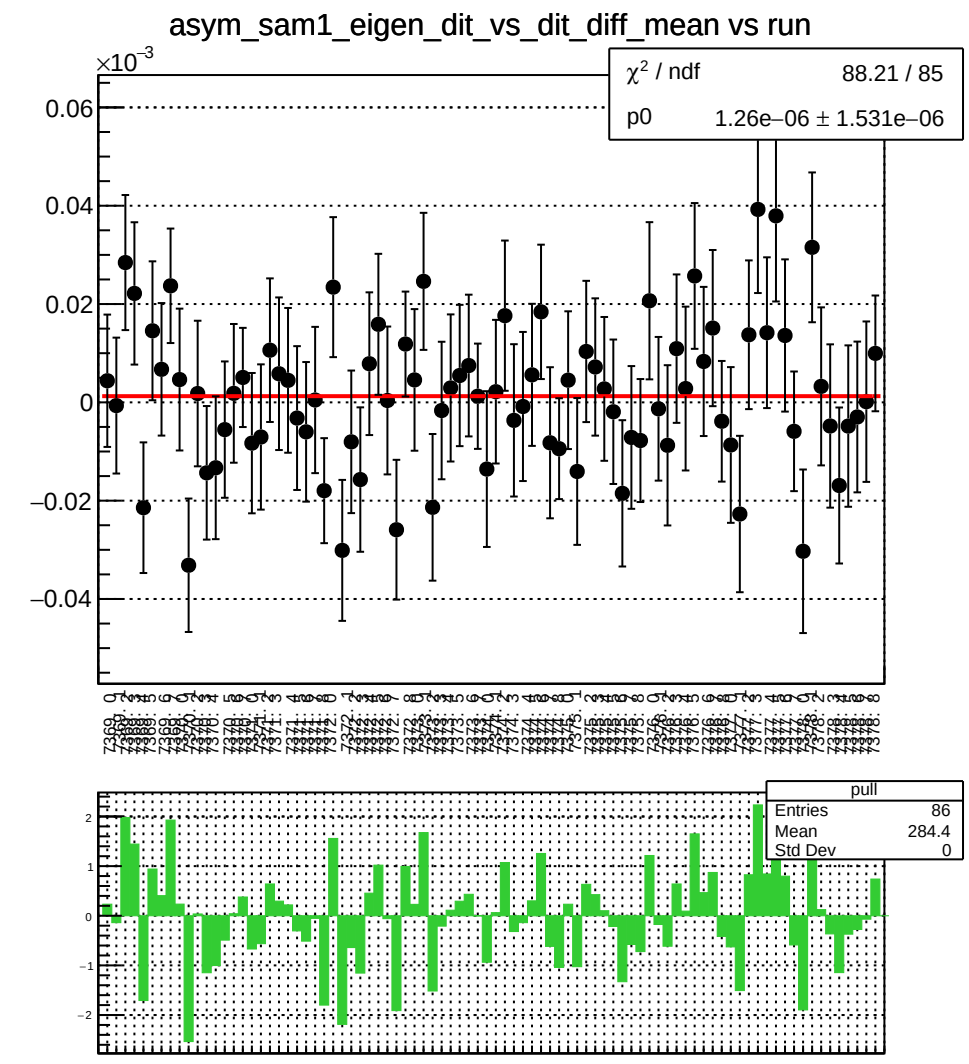

pull1D
Entries 86
Mean −0.05558
Std Dev 1.169

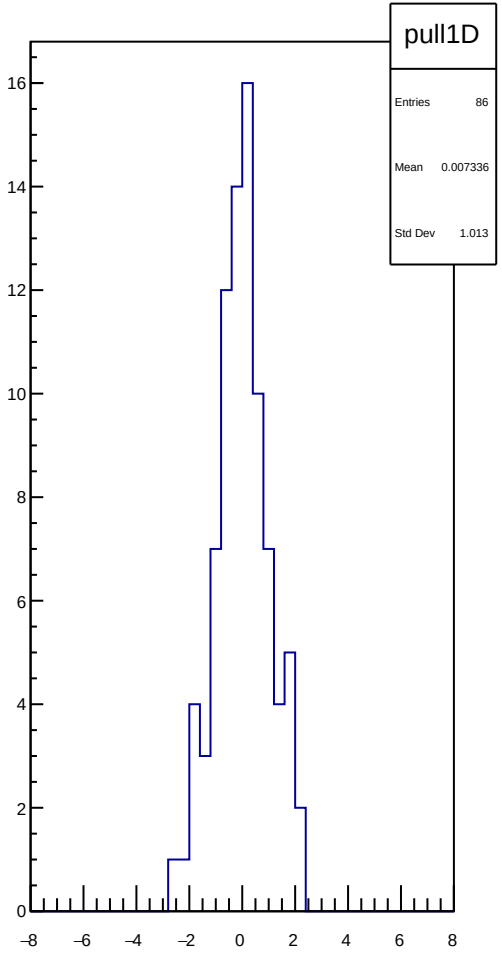

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.719e+05 / 85
p0 28.04 ± 0.02359
70
60
50
40
30
20
10

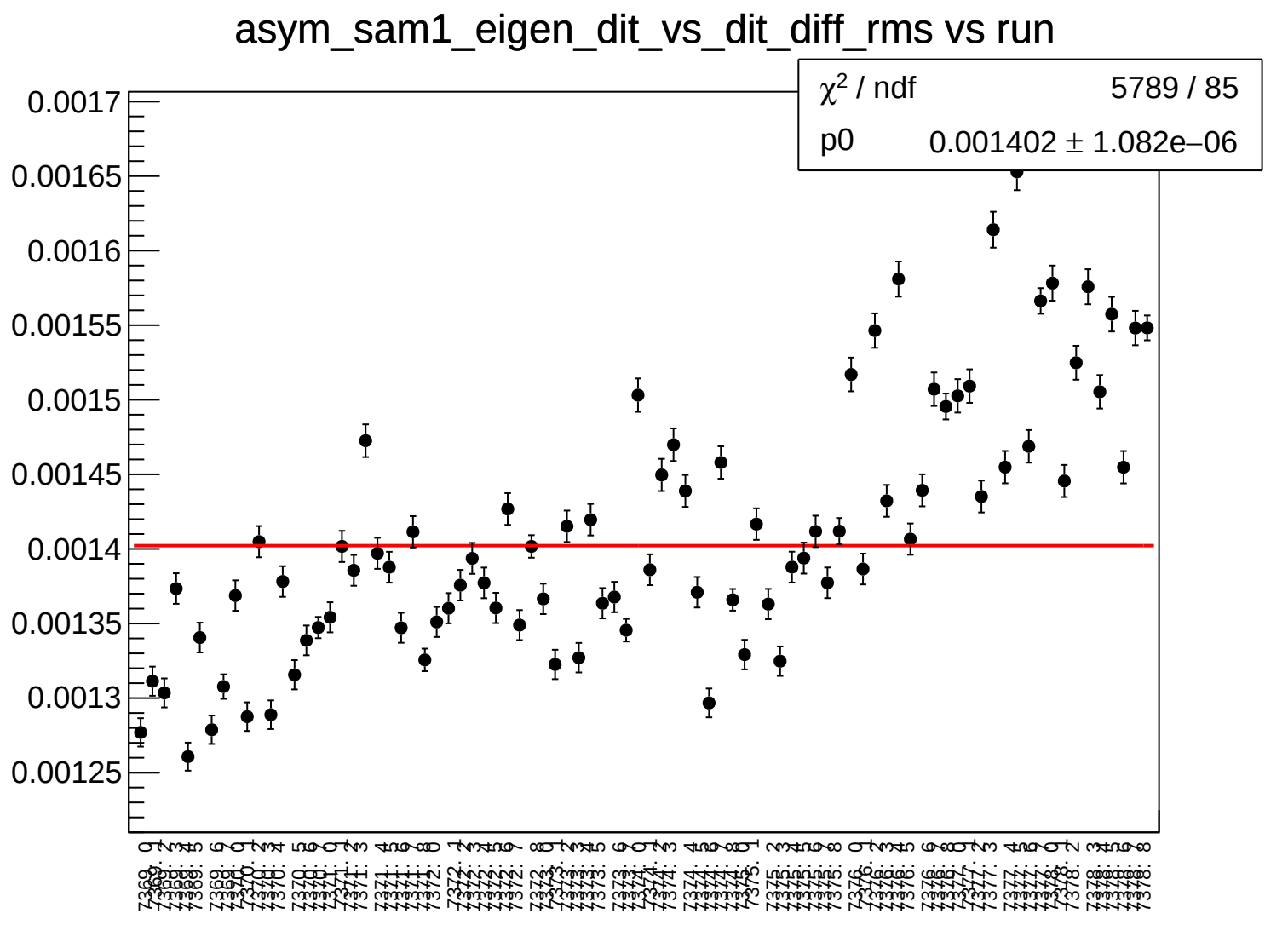

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.8 / 85
p0 0.0109 ± 0.03337
pull
Entries 86
Mean 64.61
Std Dev 0

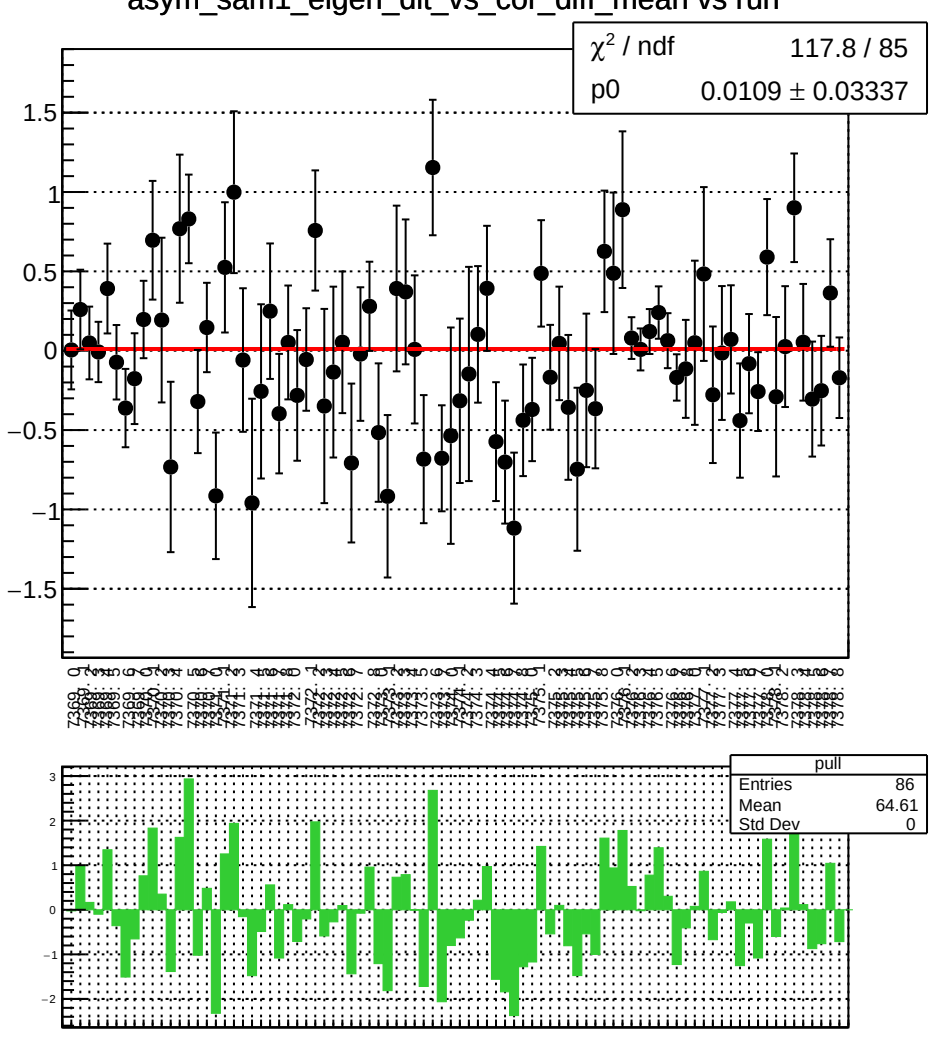

pull1D
Entries 86
Mean −0.05558
Std Dev 1.169

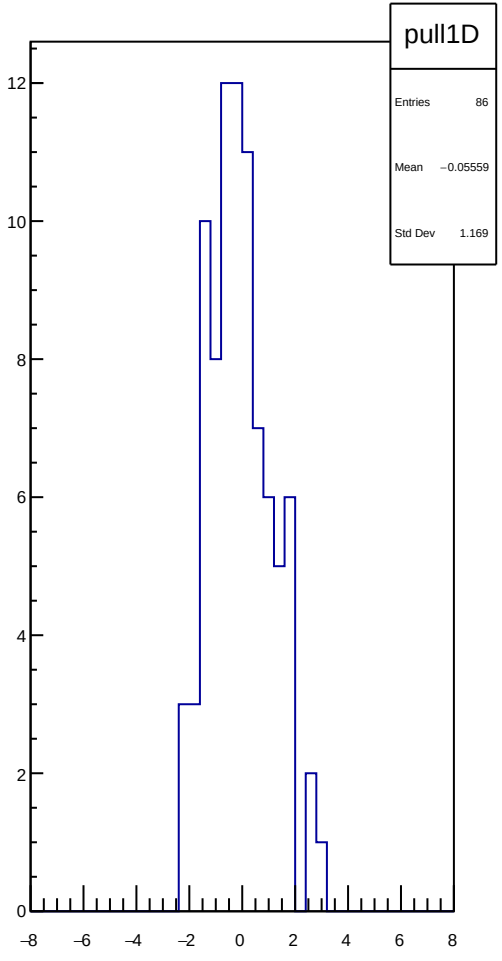

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.719e+05 / 85
p0 28.04 ± 0.02359
70
60
50
40
30
20
10

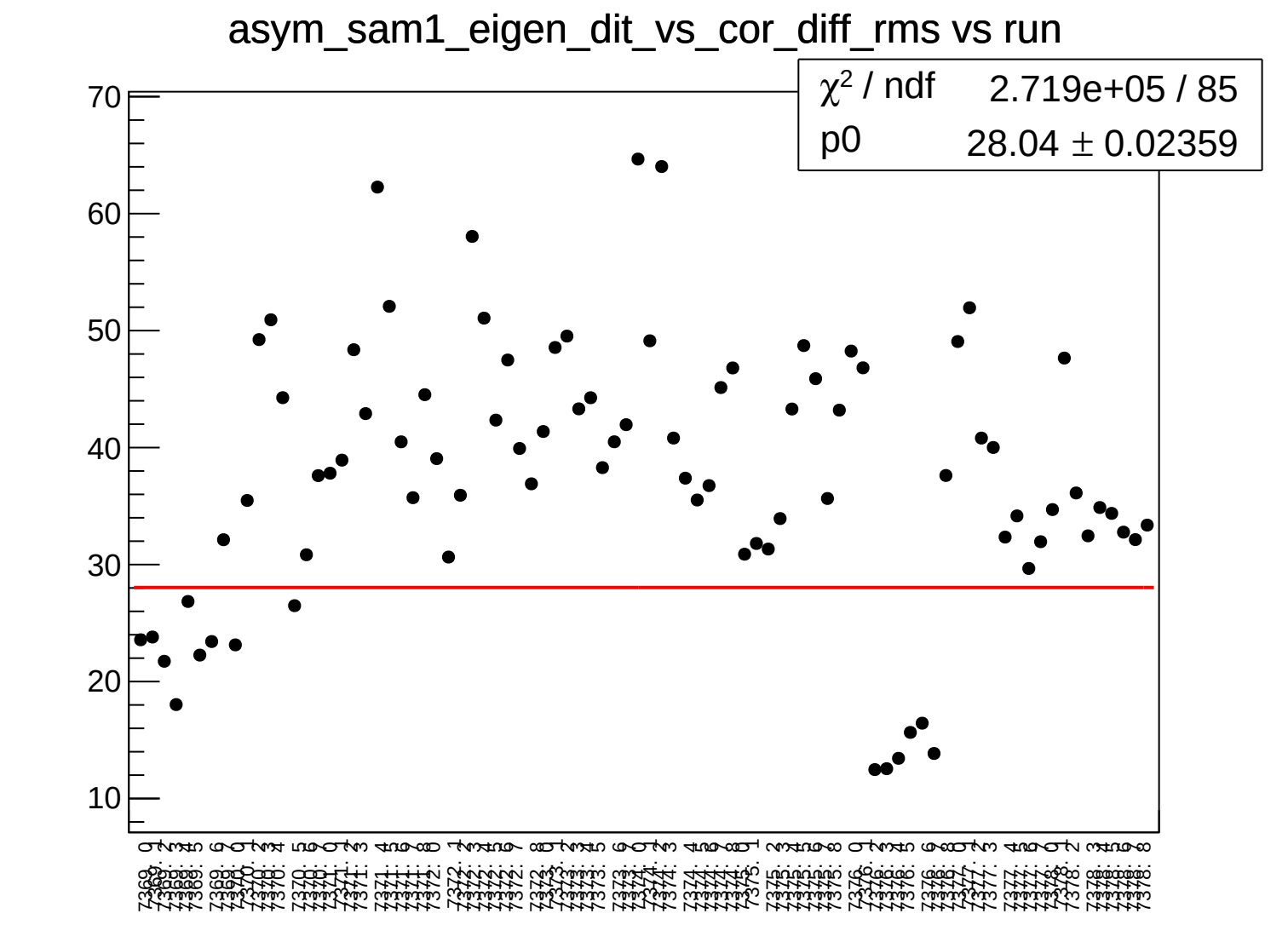

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.21 / 85
p0 1.26e−06 ± 1.531e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 86
Mean 284.4
Std Dev 0
2
1
0
−1
−2

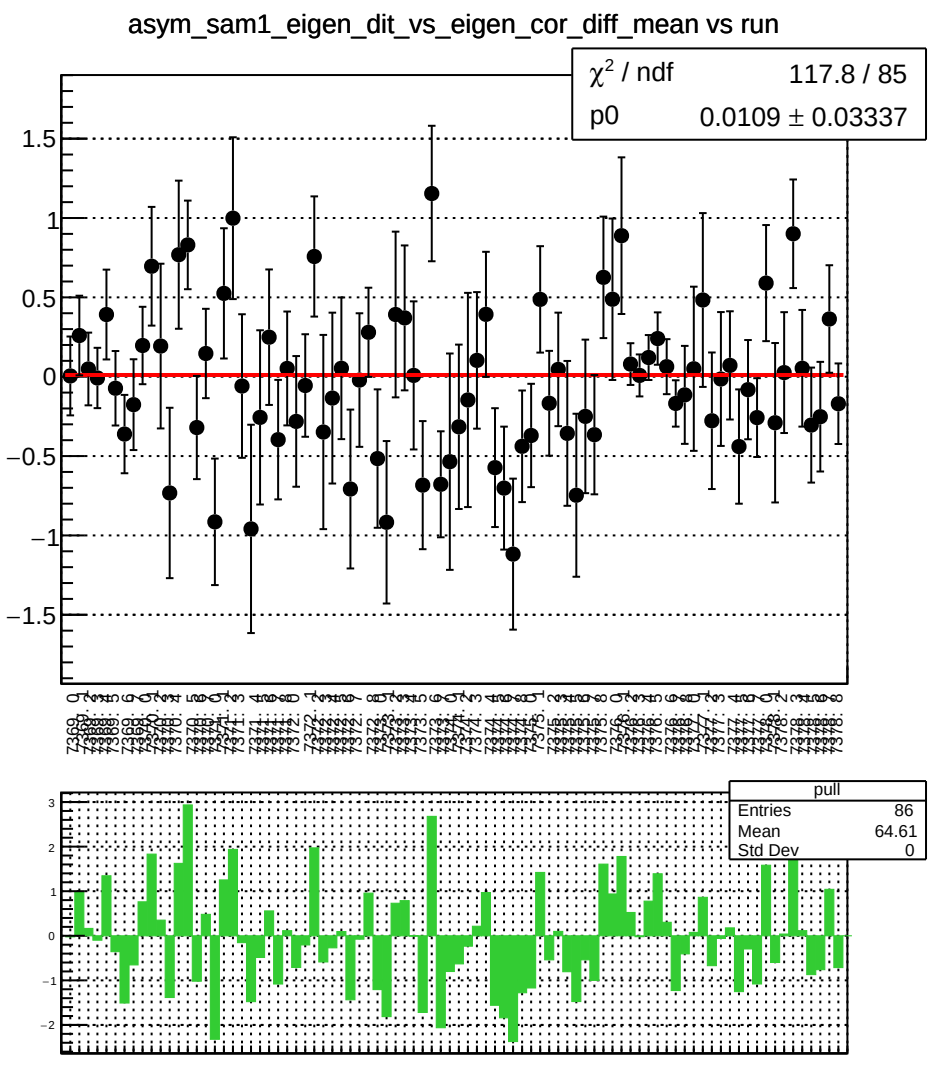

pull1D
Entries 86
Mean 0.007336
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

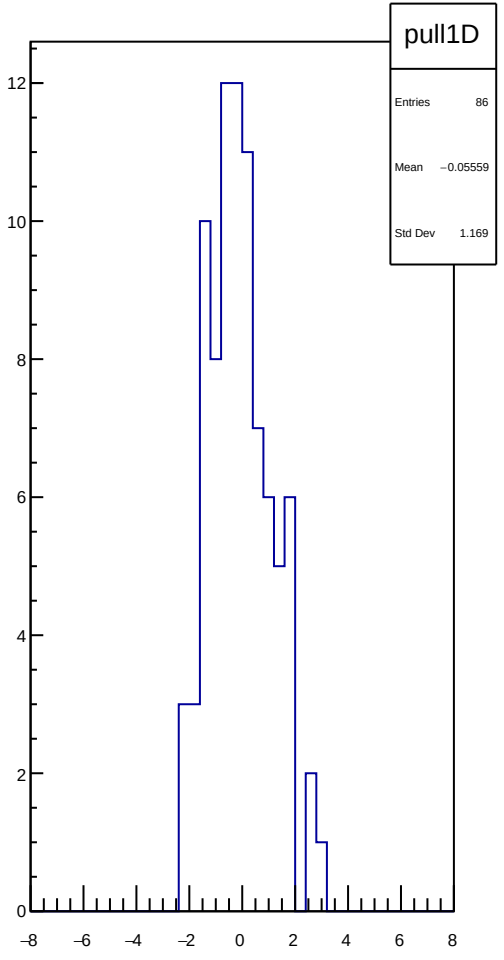

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5789 / 85
p0 0.001402 ± 1.082e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125

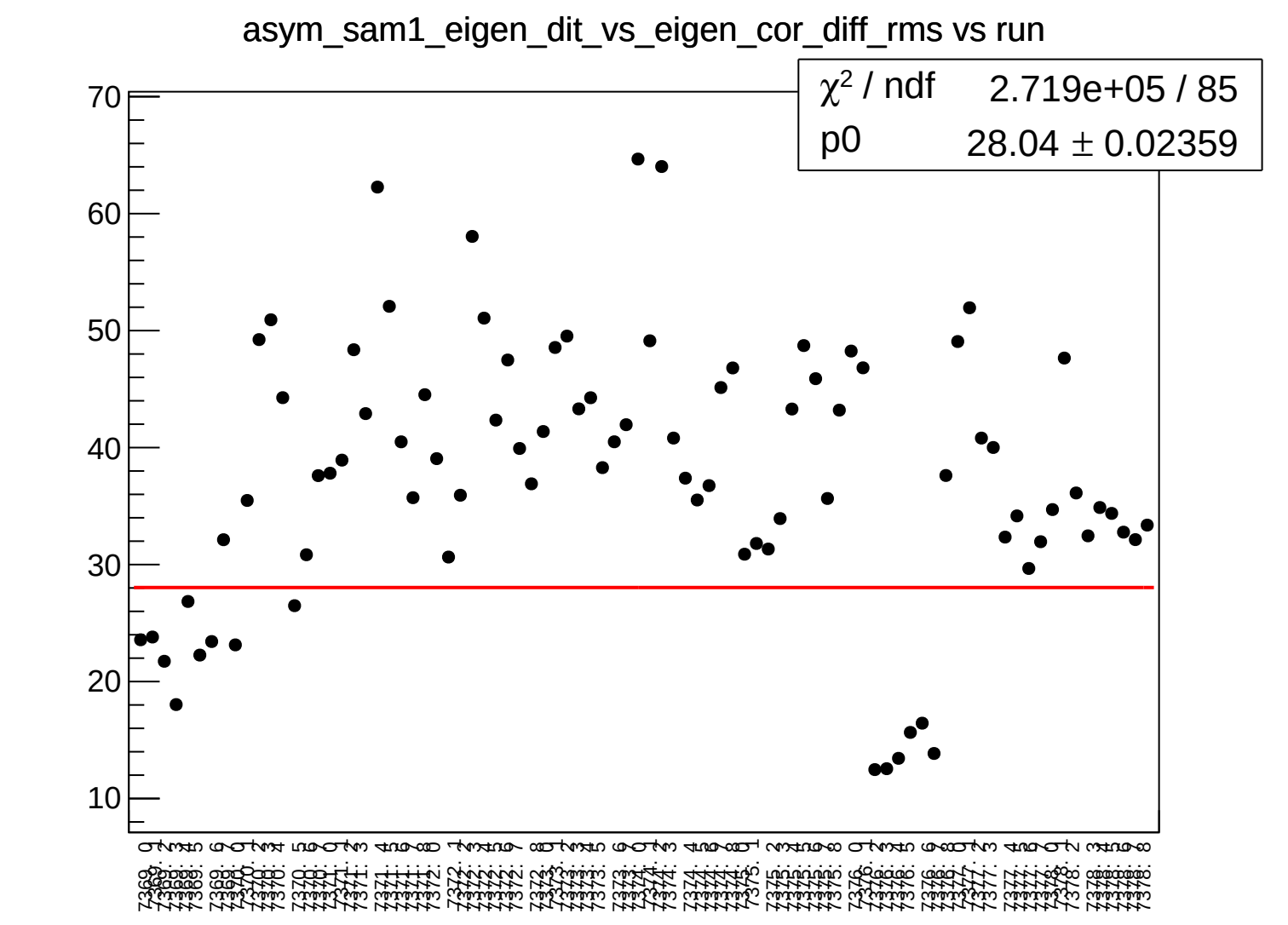

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.8 / 85
p0 0.0109 ± 0.03337
pull
Entries 86
Mean 64.61
Std Dev 0

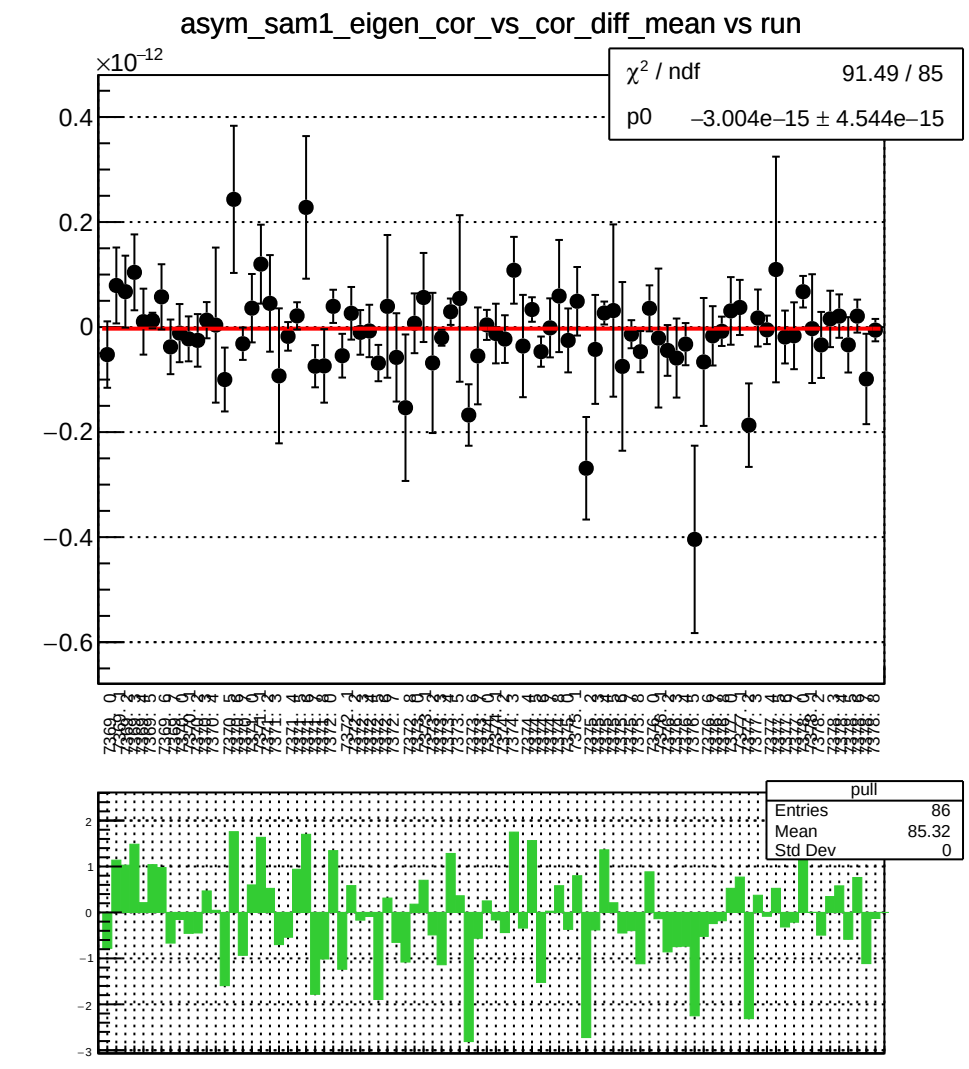

pull1D
Entries 86
Mean −0.05559
Std Dev 1.169

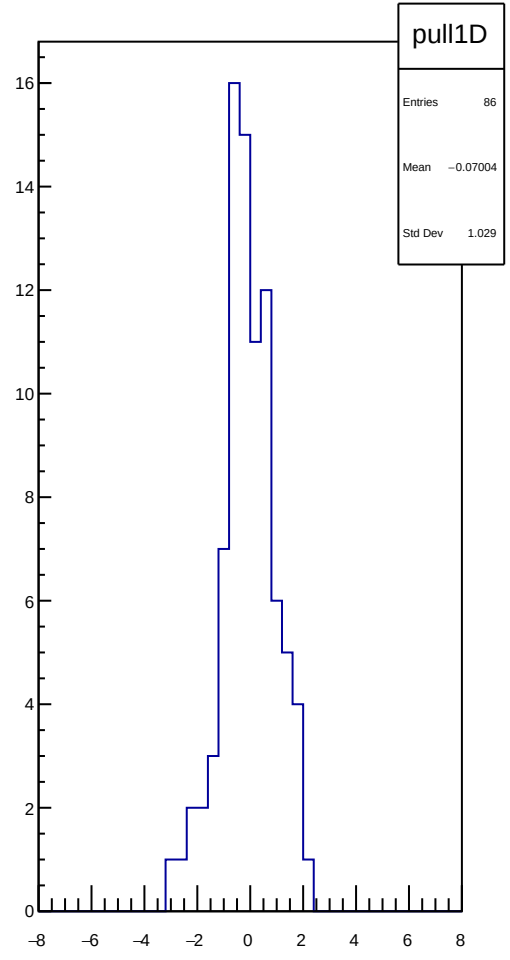

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.719e+05 / 85
p0 28.04 ± 0.02359
70
60
50
40
30
20
10

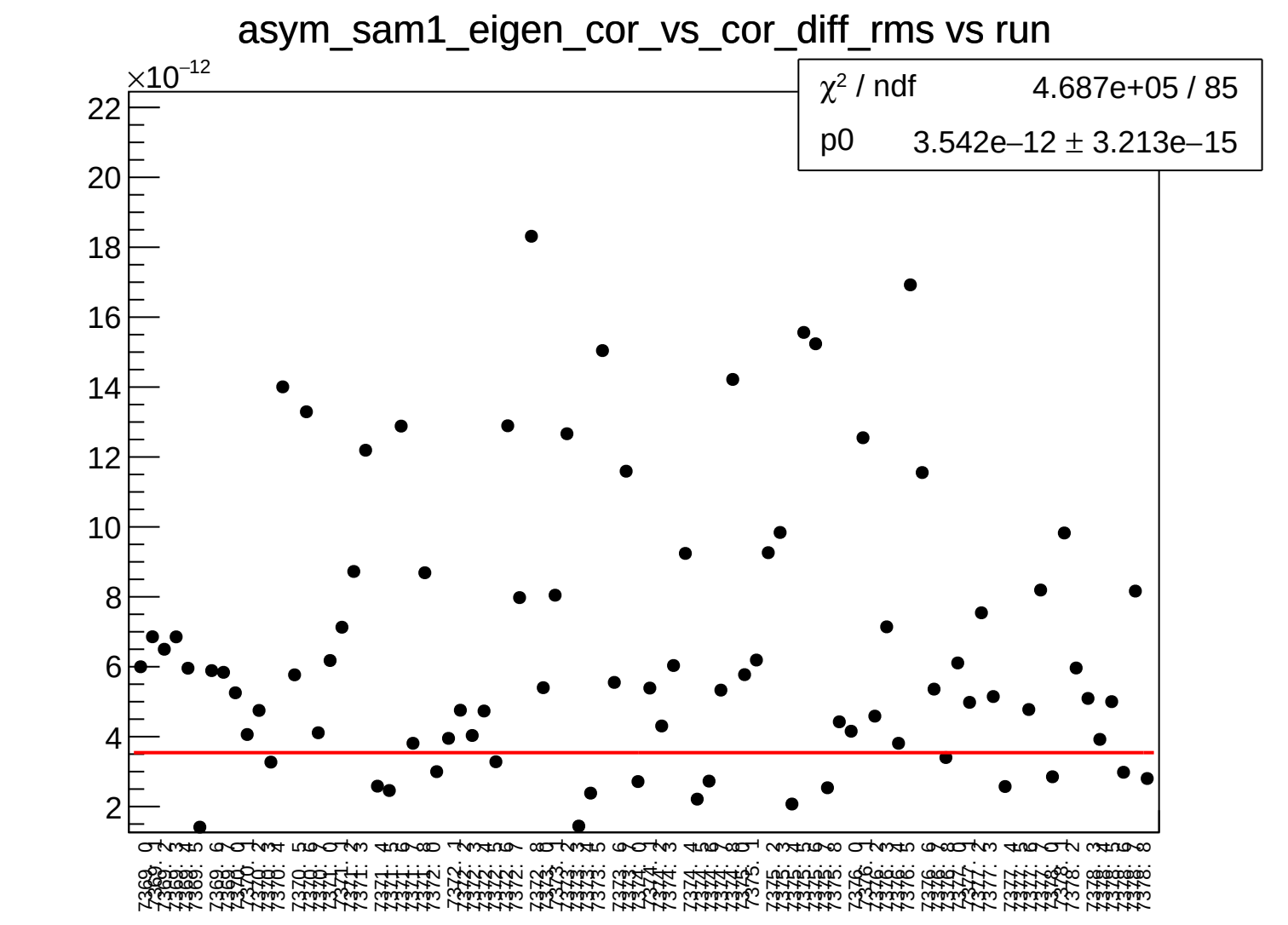

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.8 / 85
p0 0.0109 ± 0.03337
pull
Entries 86
Mean 64.61
Std Dev 0

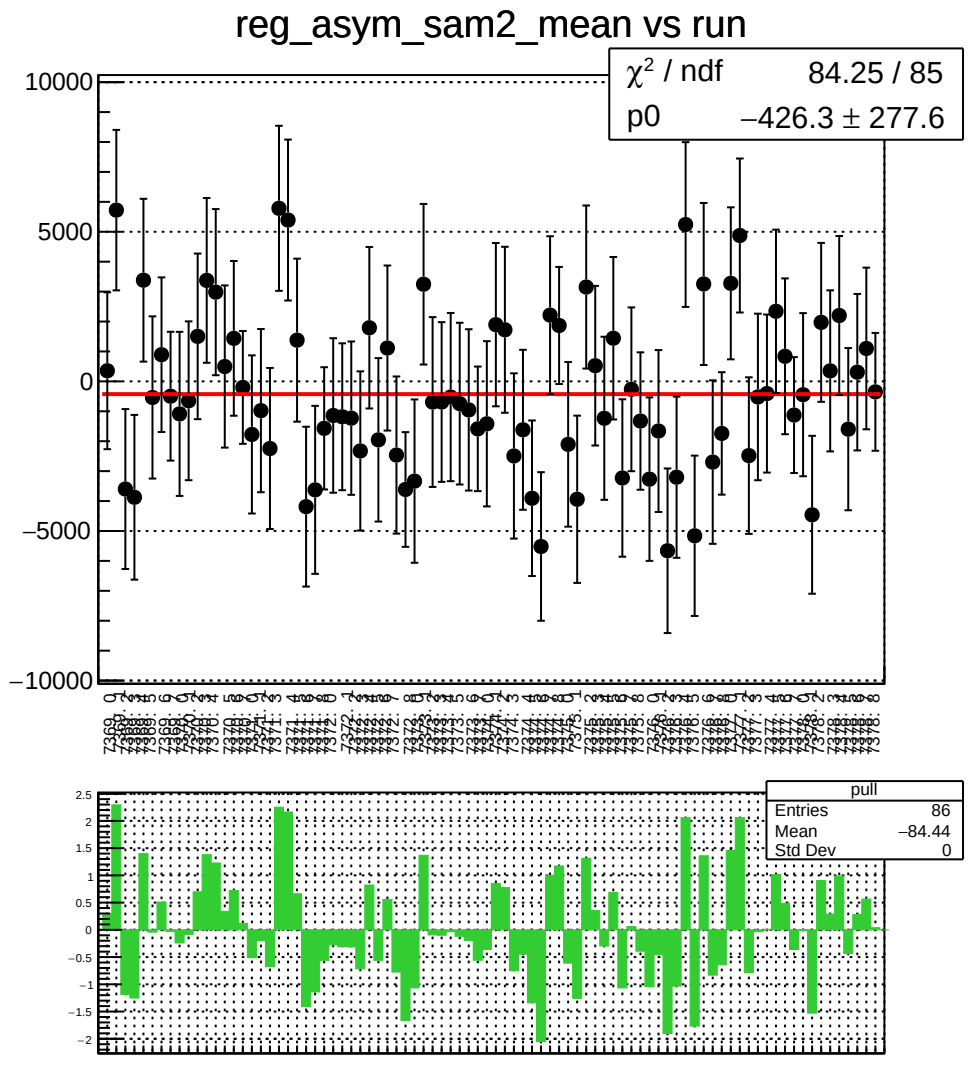

pull1D
Entries 86
Mean −0.05559
Std Dev 1.169

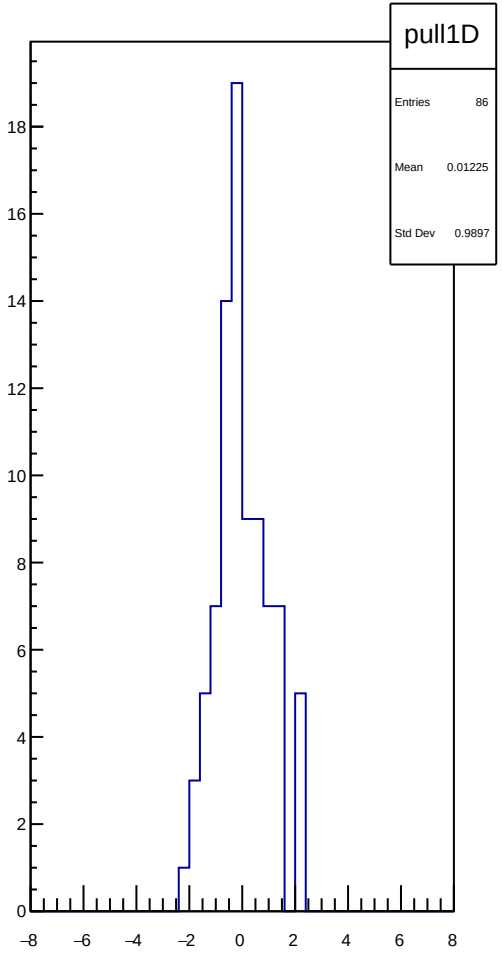

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.719e+05 / 85
p0 28.04 ± 0.02359
70
60
50
40
30
20
10

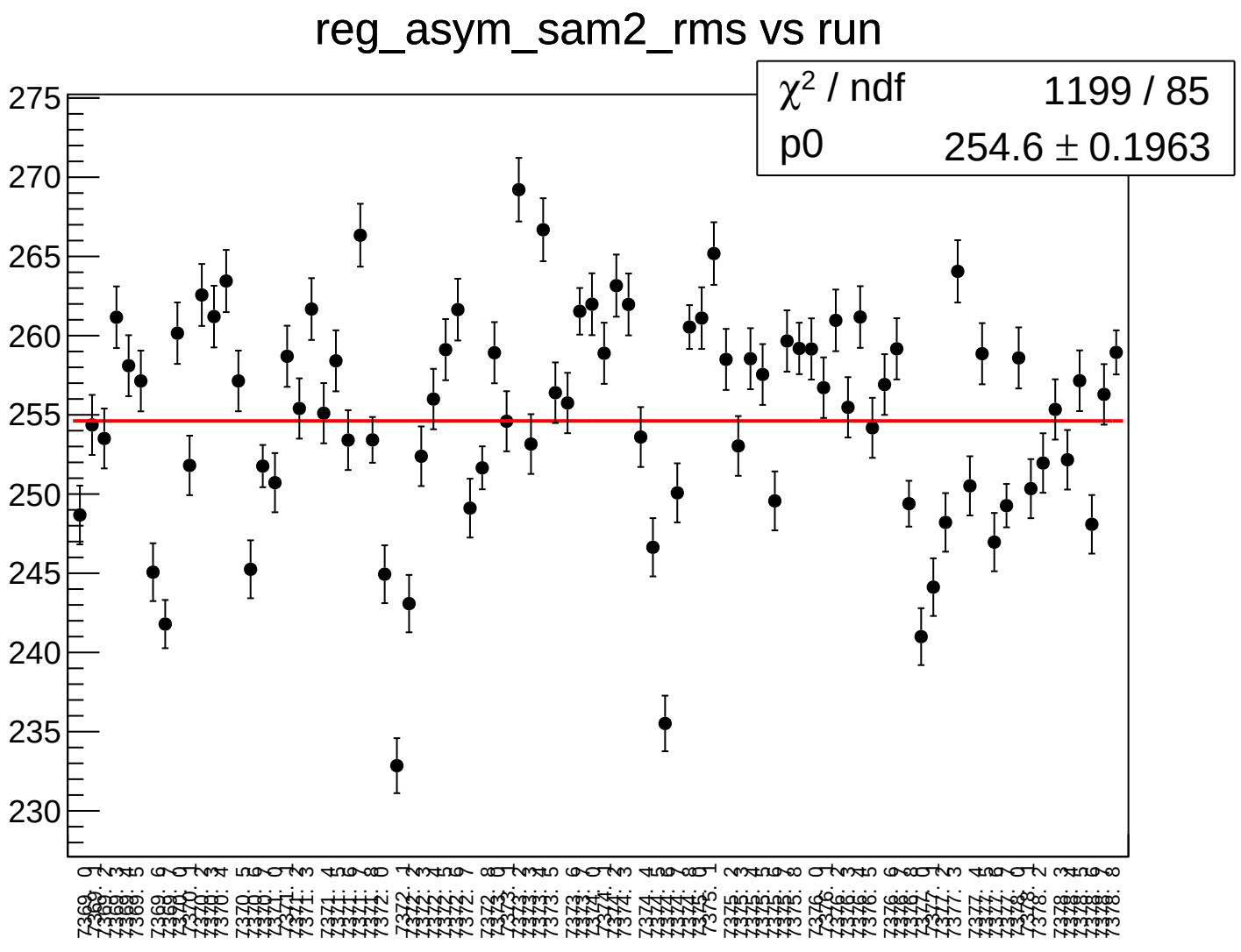

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.49 / 85
p0 −3.004e−15 ± 4.544e−15
pull
Entries 86
Mean 85.32
Std Dev 0

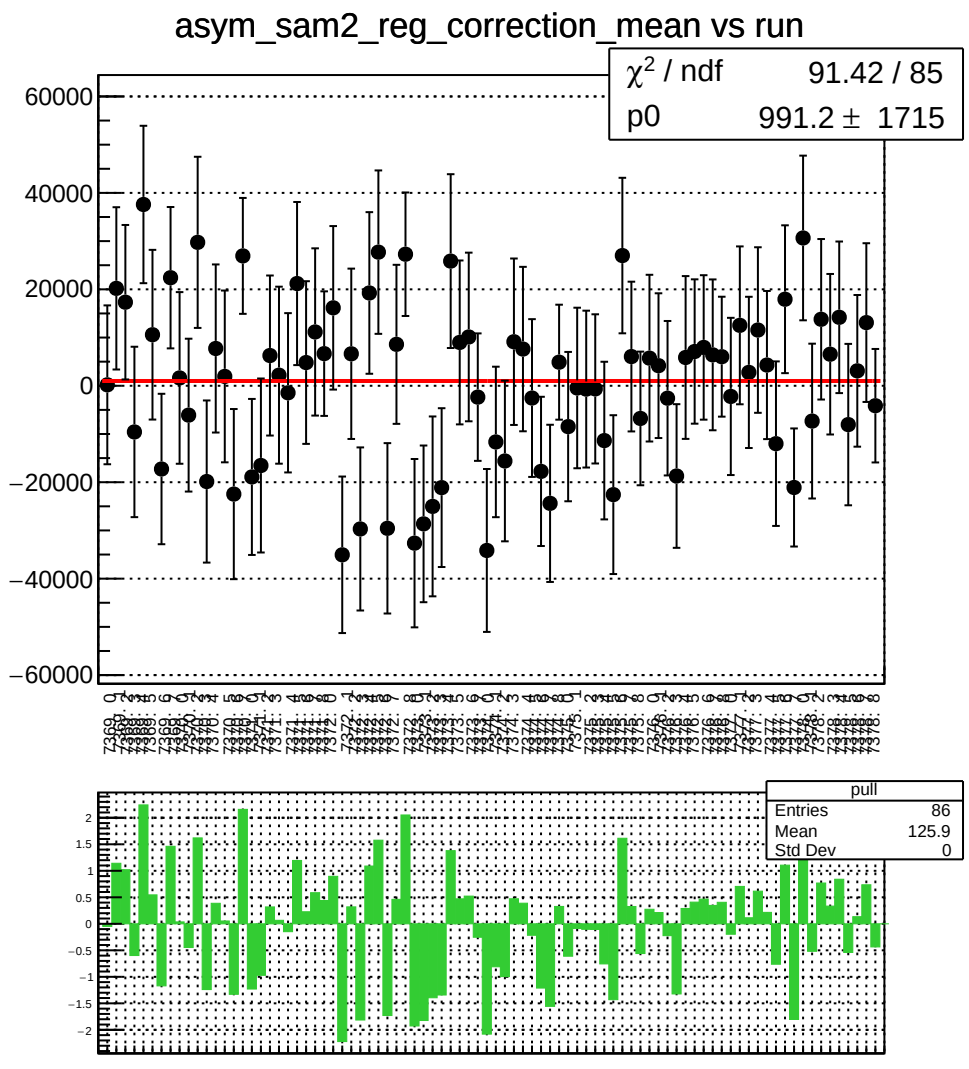

pull1D
Entries 86
Mean −0.07004
Std Dev 1.029

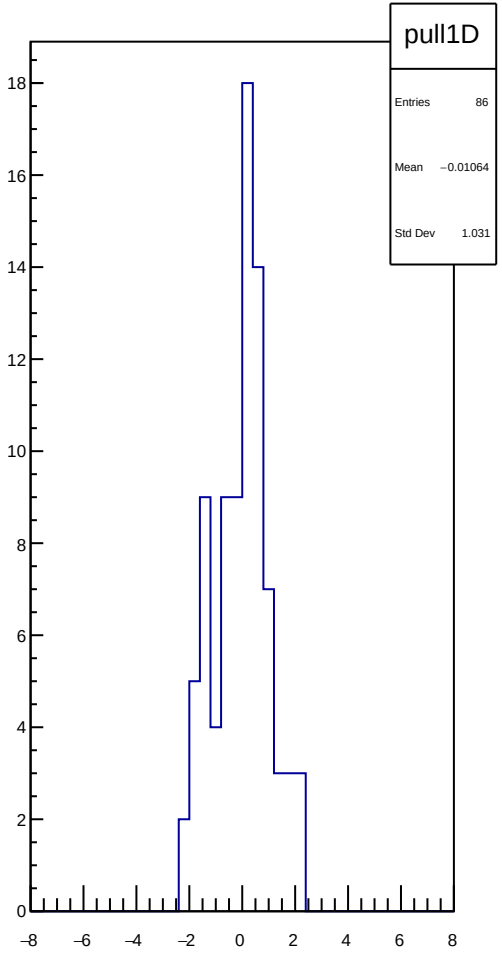

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.687e+05 / 85
p0 3.542e−12 ± 3.213e−15
22
20
18
16
14
12
10
8
6
4
2

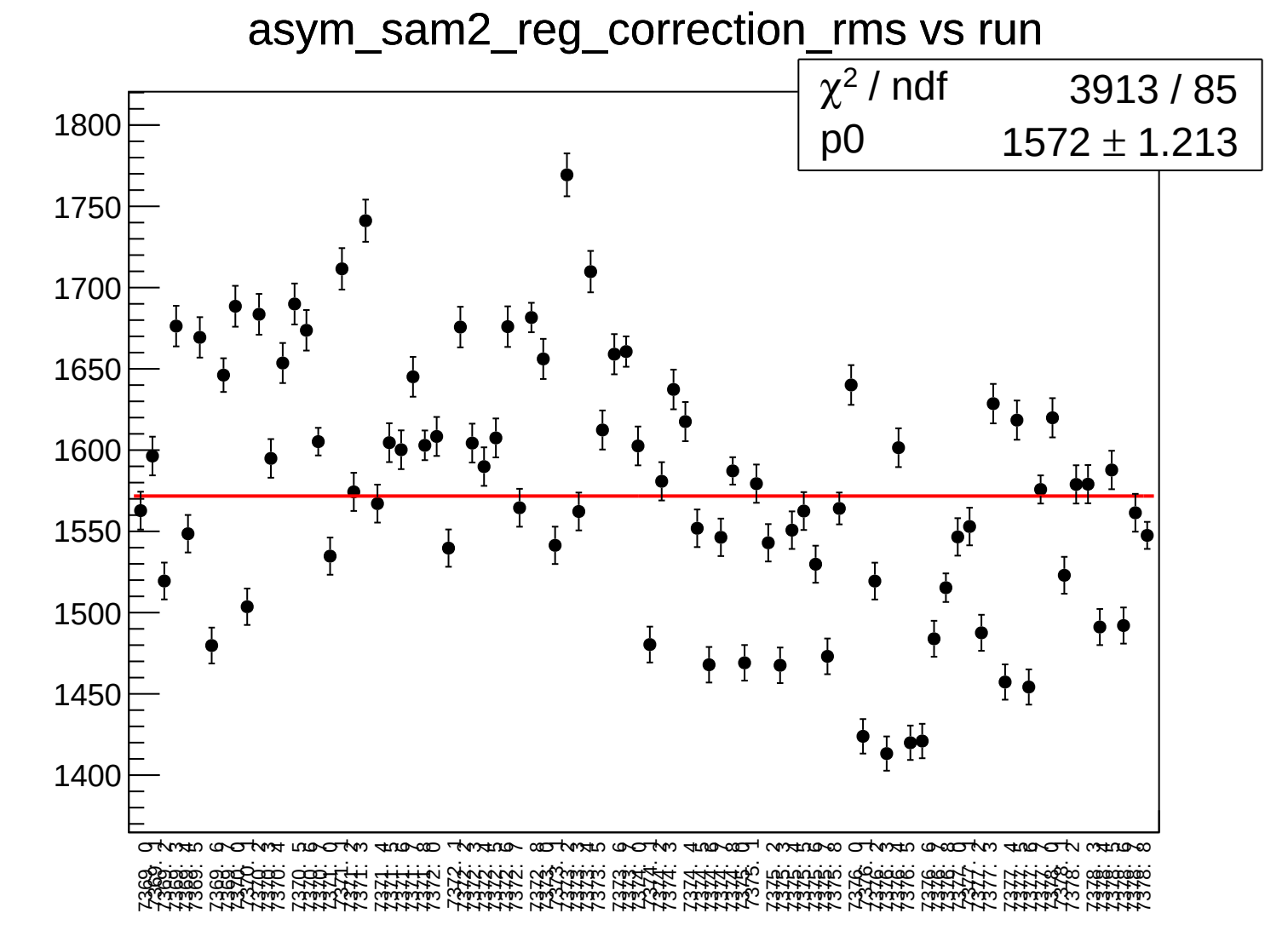

reg_asym_sam2_mean vs run
χ² / ndf 84.25 / 85
p0 −426.3 ± 277.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −84.44
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

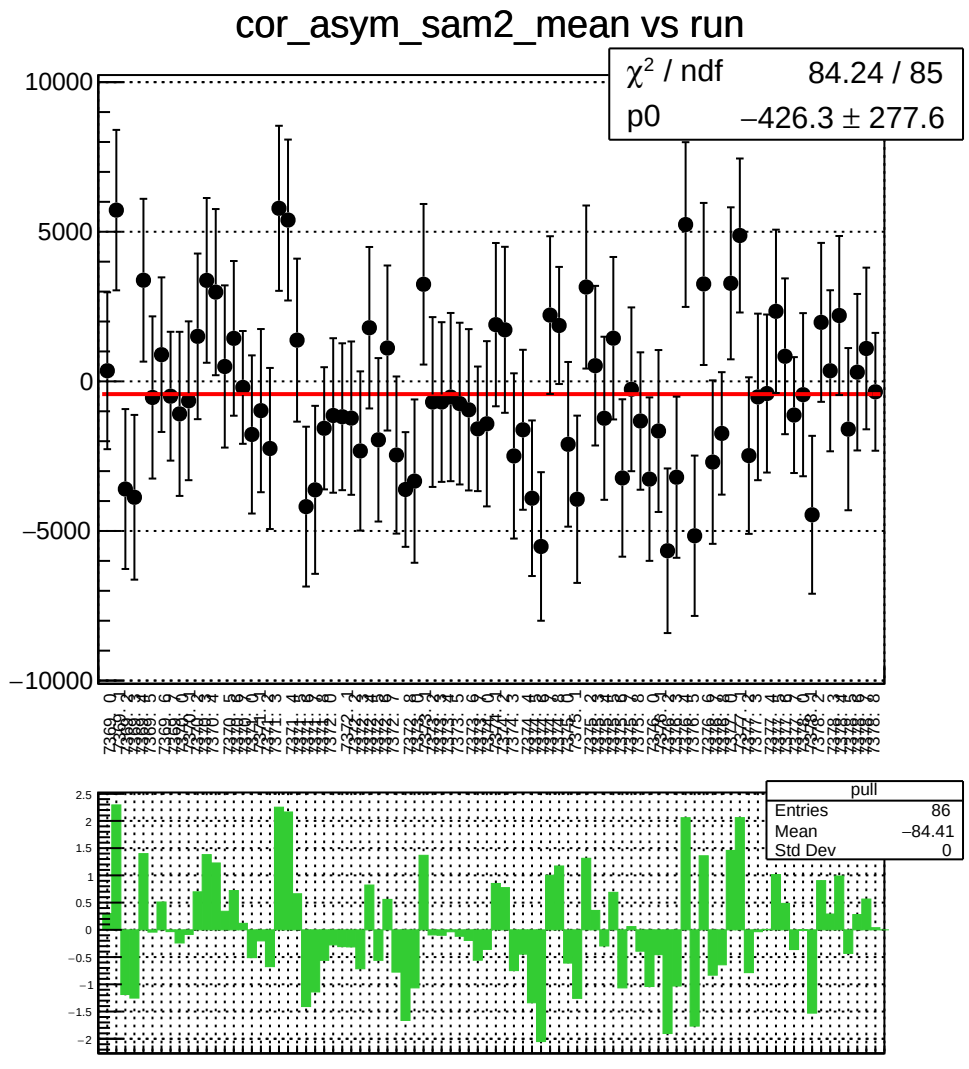

pull1D
Entries 86
Mean 0.01225
Std Dev 0.9897
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

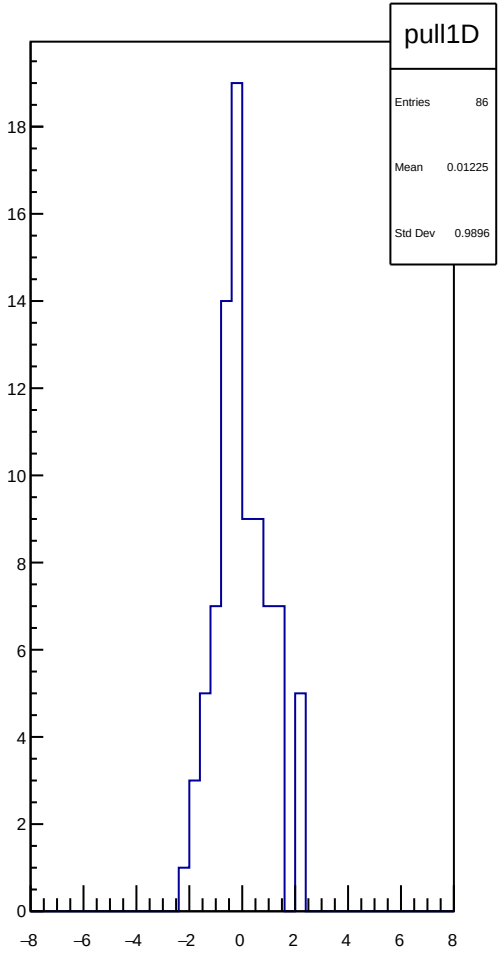

reg_asym_sam2_rms vs run
χ² / ndf 1199 / 85
p0 254.6 ± 0.1963
275
270
265
260
255
250
245
240
235
230

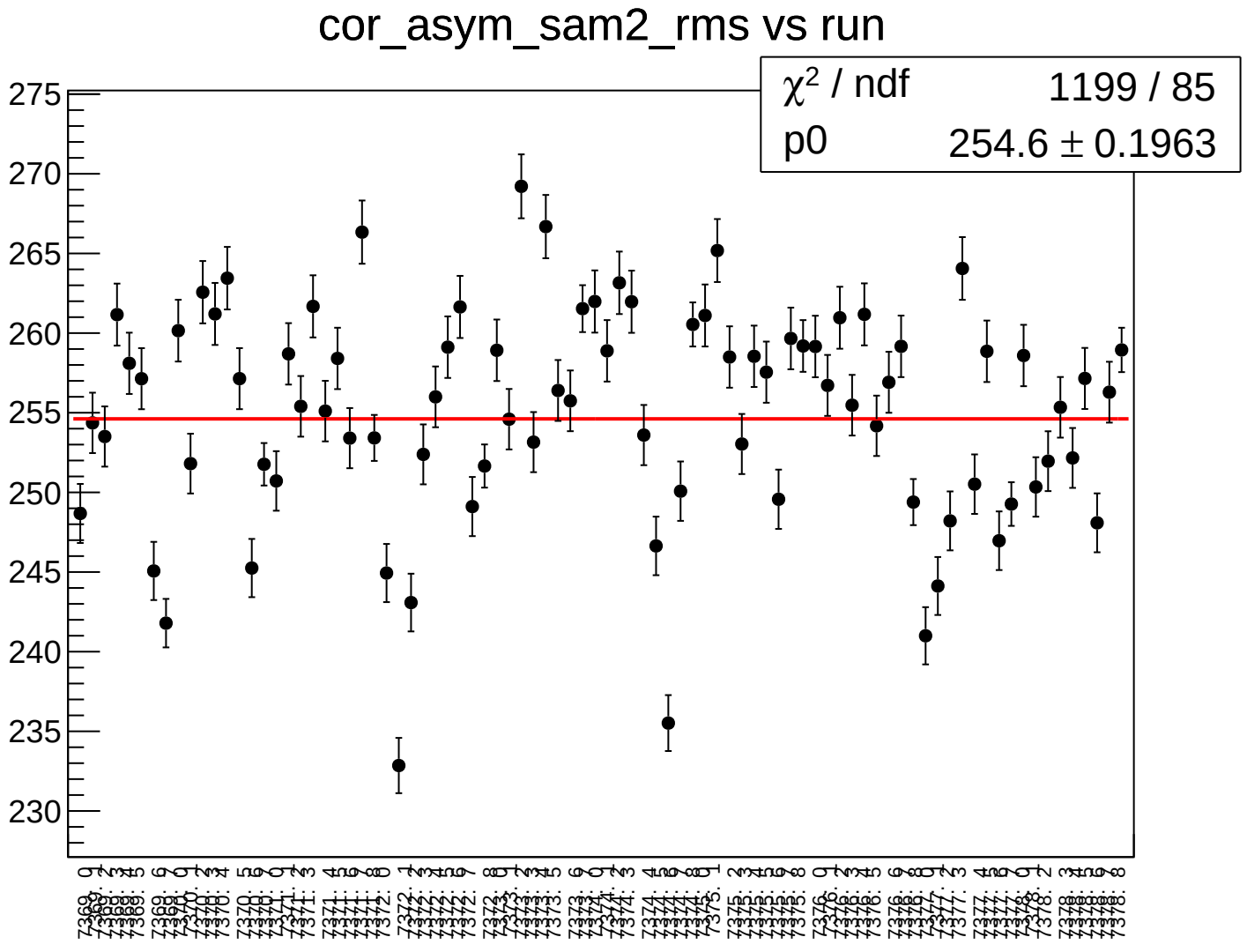

asym_sam2_reg_correction_mean vs run
χ² / ndf 91.42 / 85
p0 991.2 ± 1715
pull
Entries 86
Mean 125.9
Std Dev 0

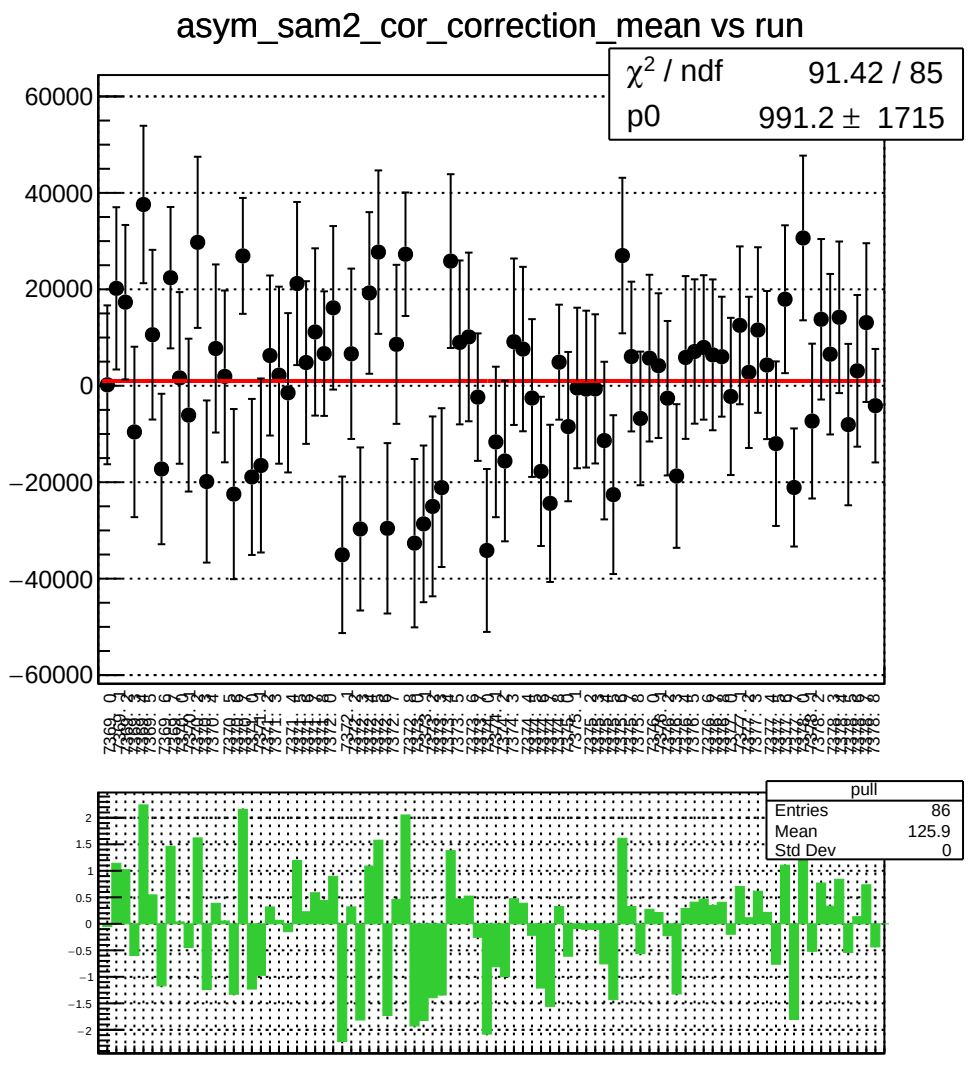

pull1D
Entries 86
Mean −0.01064
Std Dev 1.031

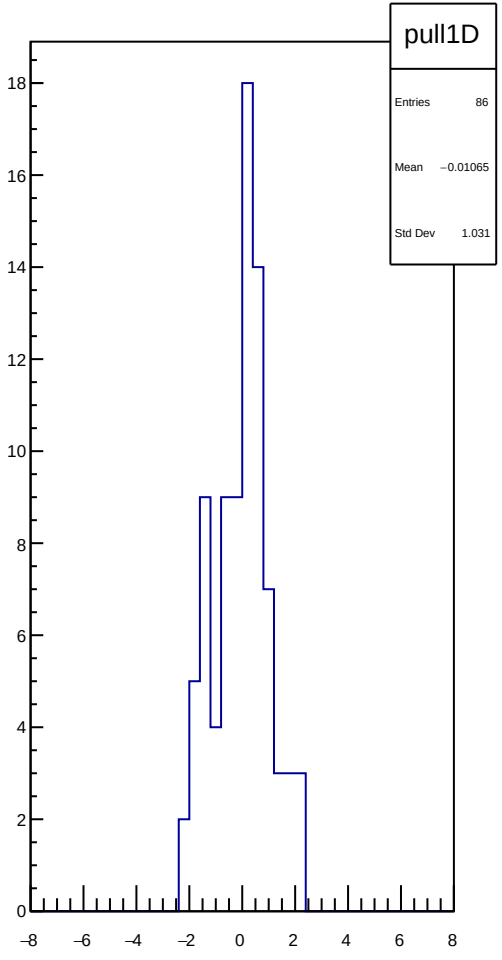

asym_sam2_reg_correction_rms vs run
χ² / ndf 3913 / 85
p0 1572 ± 1.213
1800
1750
1700
1650
1600
1550
1500
1450
1400

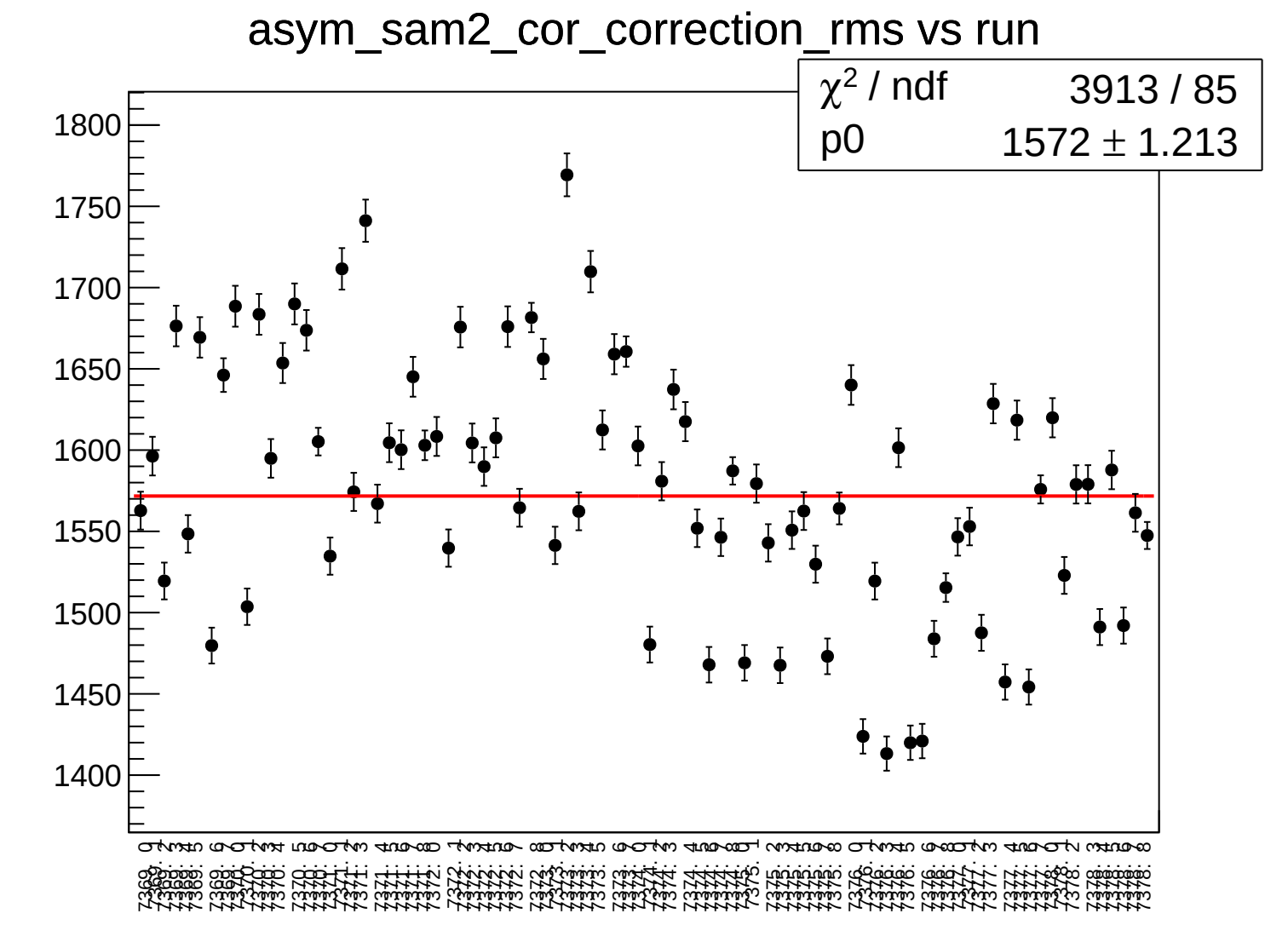

cor_asym_sam2_mean vs run
χ² / ndf 84.24 / 85
p0 −426.3 ± 277.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −84.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

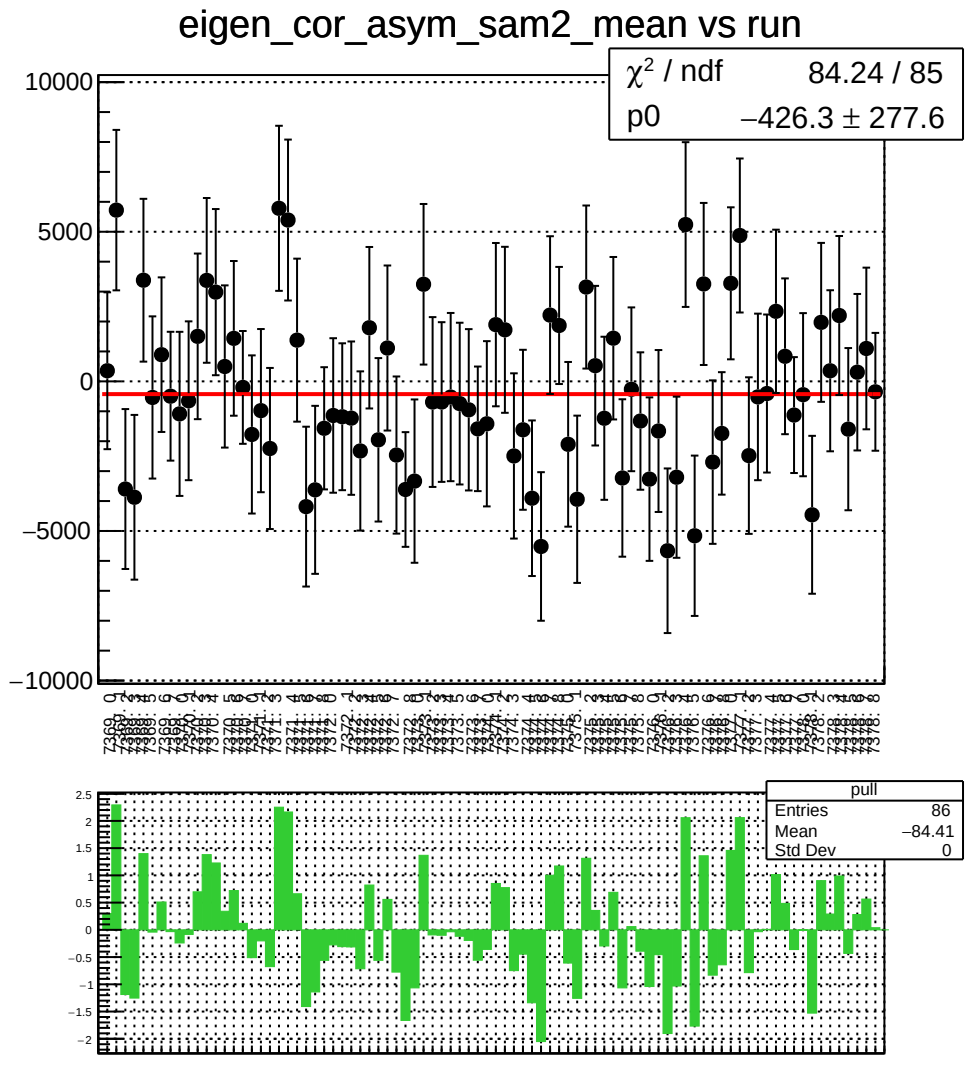

pull1D
Entries 86
Mean 0.01225
Std Dev 0.9896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

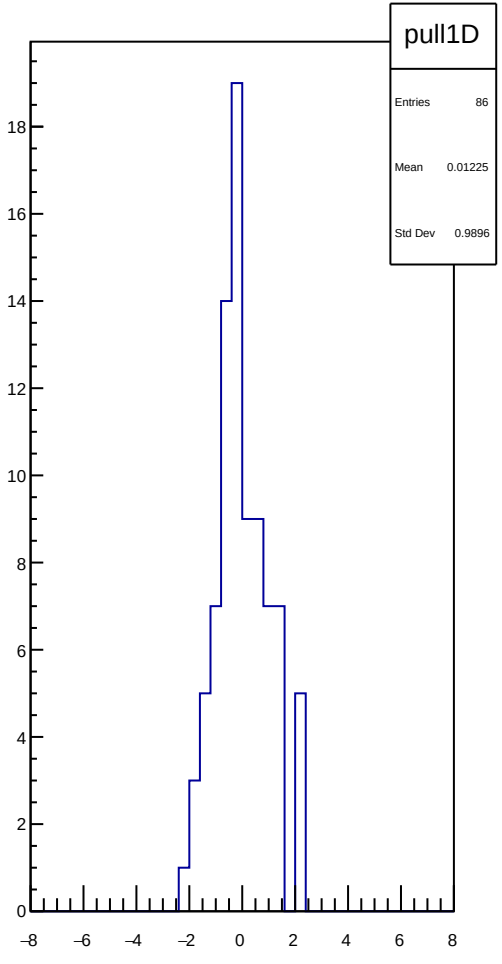

cor_asym_sam2_rms vs run
χ² / ndf 1199 / 85
p0 254.6 ± 0.1963
275
270
265
260
255
250
245
240
235
230

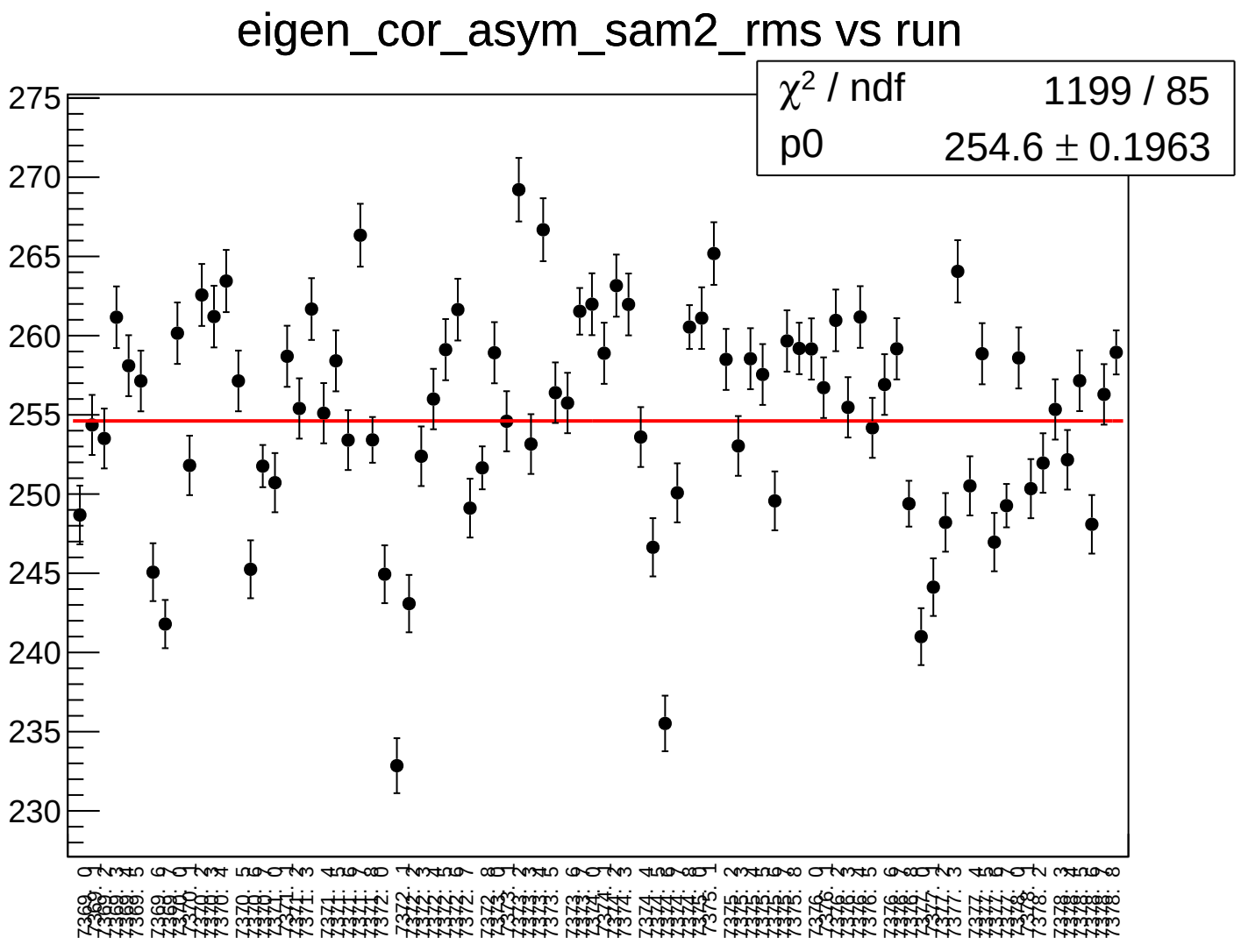

asym_sam2_cor_correction_mean vs run
χ² / ndf 91.42 / 85
p0 991.2 ± 1715
pull
Entries 86
Mean 125.9
Std Dev 0

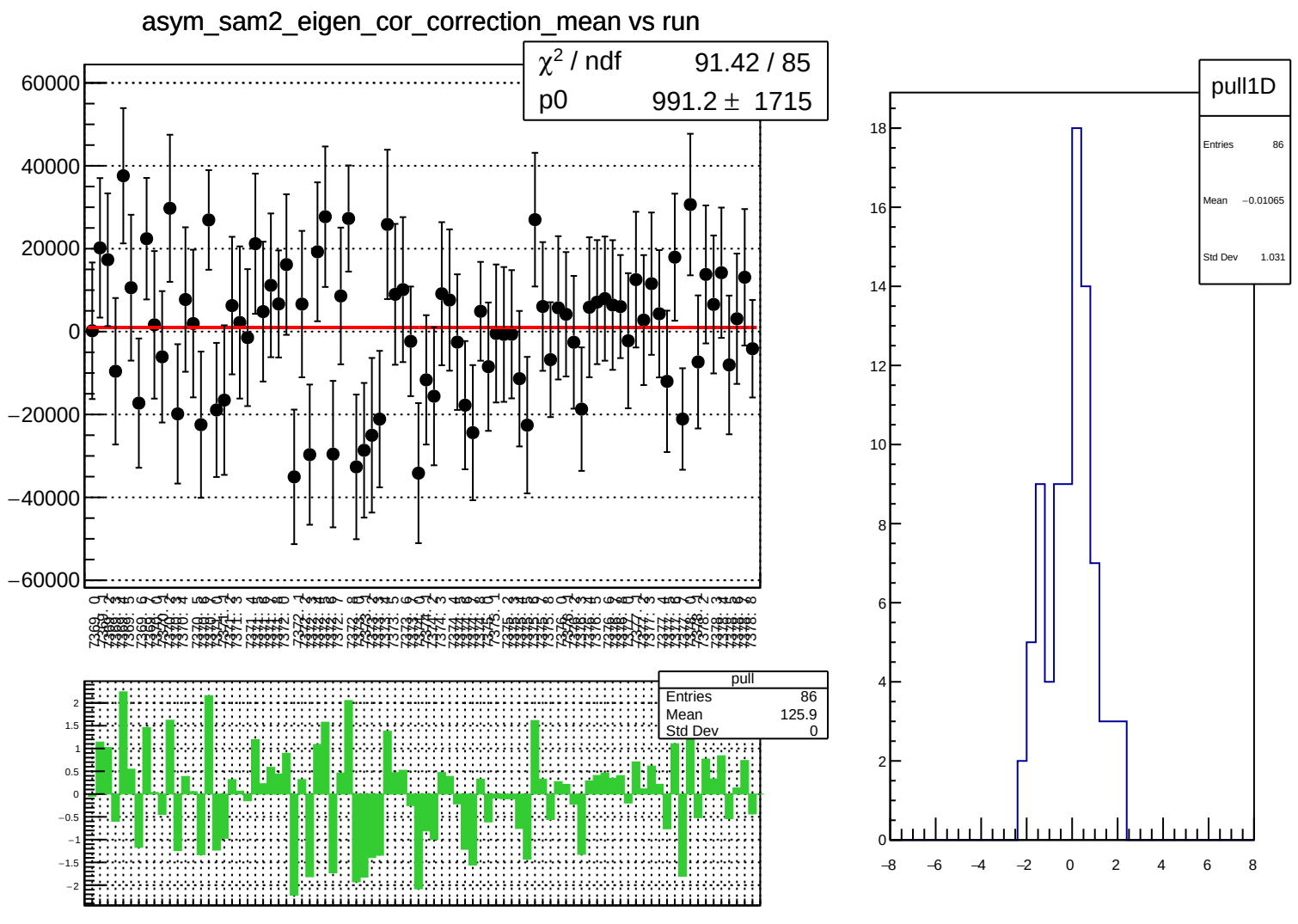

pull1D
Entries 86
Mean −0.01065
Std Dev 1.031

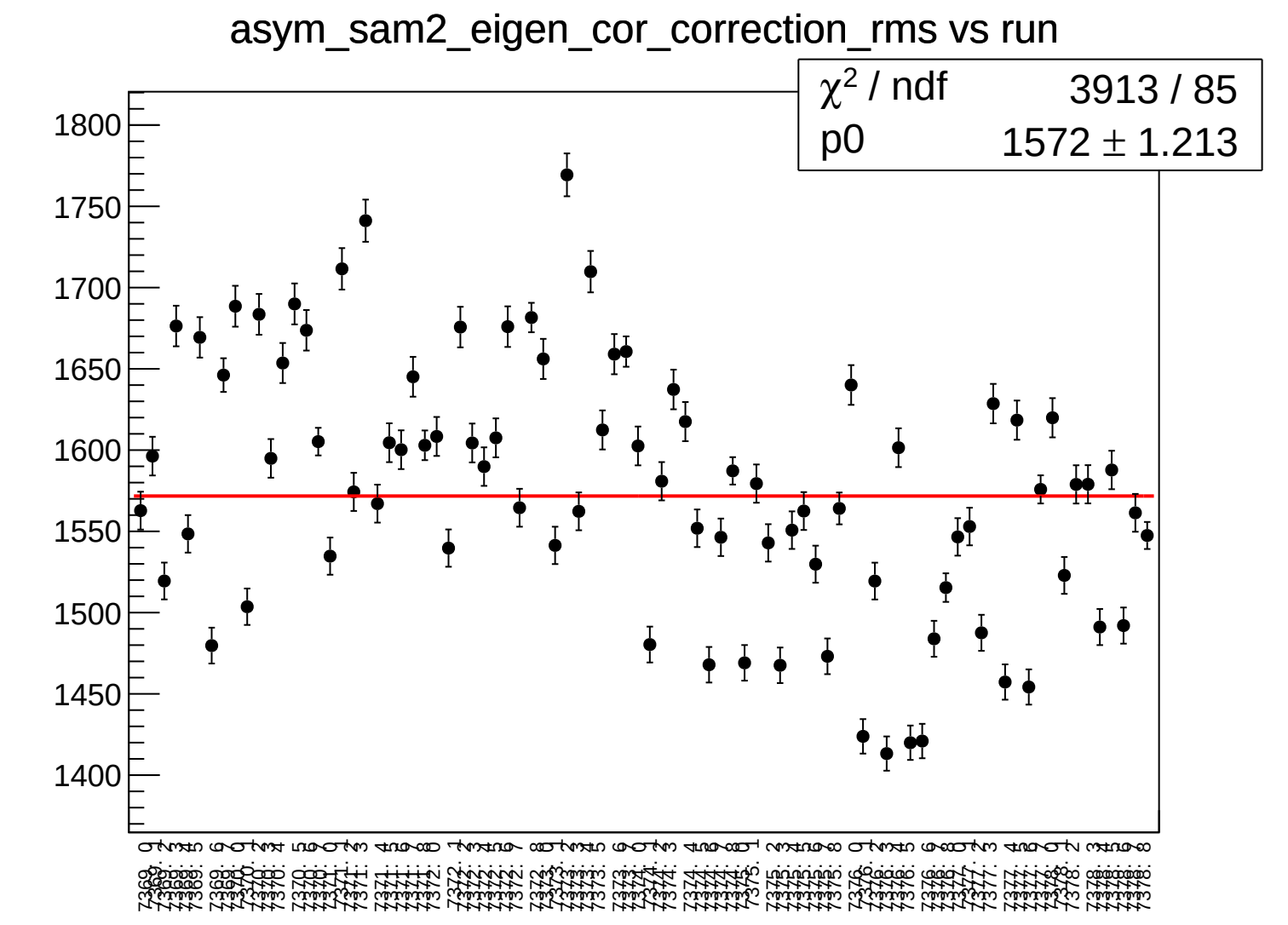

asym_sam2_cor_correction_rms vs run
χ² / ndf 3913 / 85
p0 1572 ± 1.213
1800
1750
1700
1650
1600
1550
1500
1450
1400

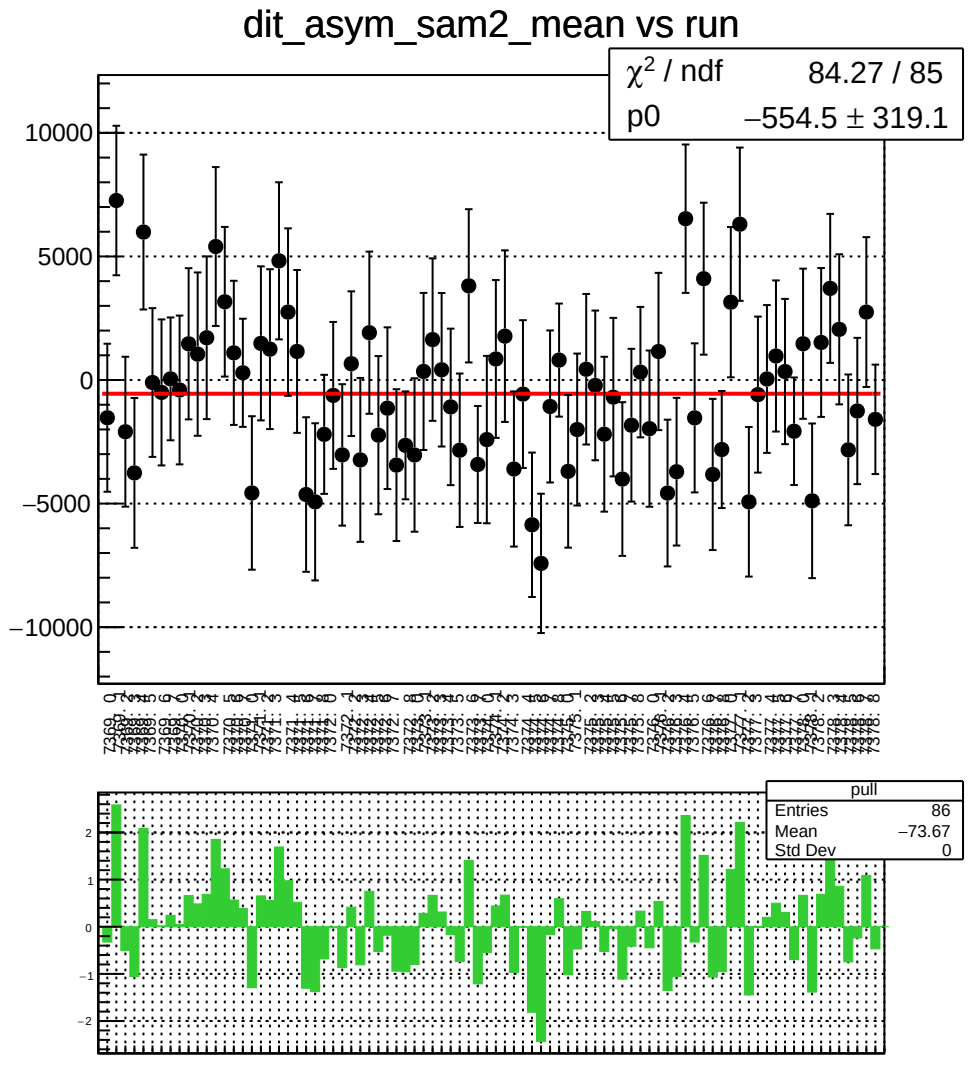

eigen_cor_asym_sam2_mean vs run
χ² / ndf 84.24 / 85
p0 −426.3 ± 277.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −84.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

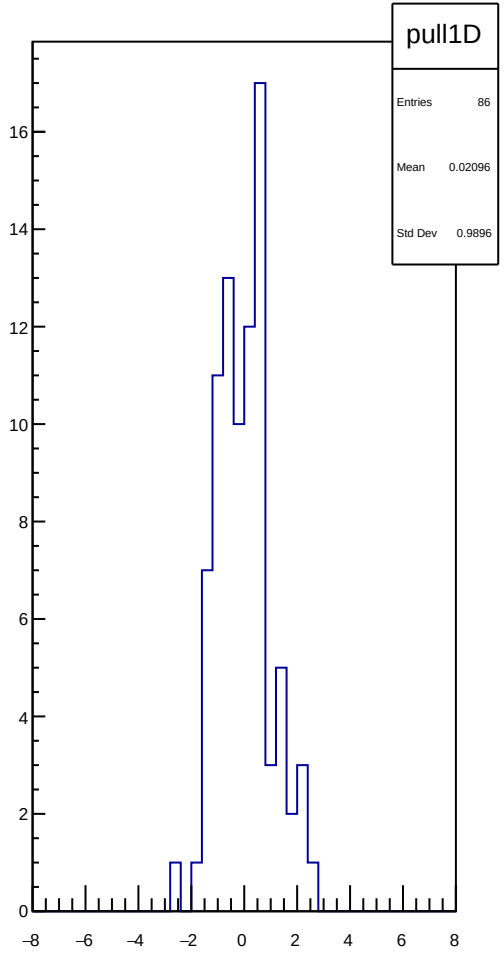

pull1D
Entries 86
Mean 0.01225
Std Dev 0.9896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

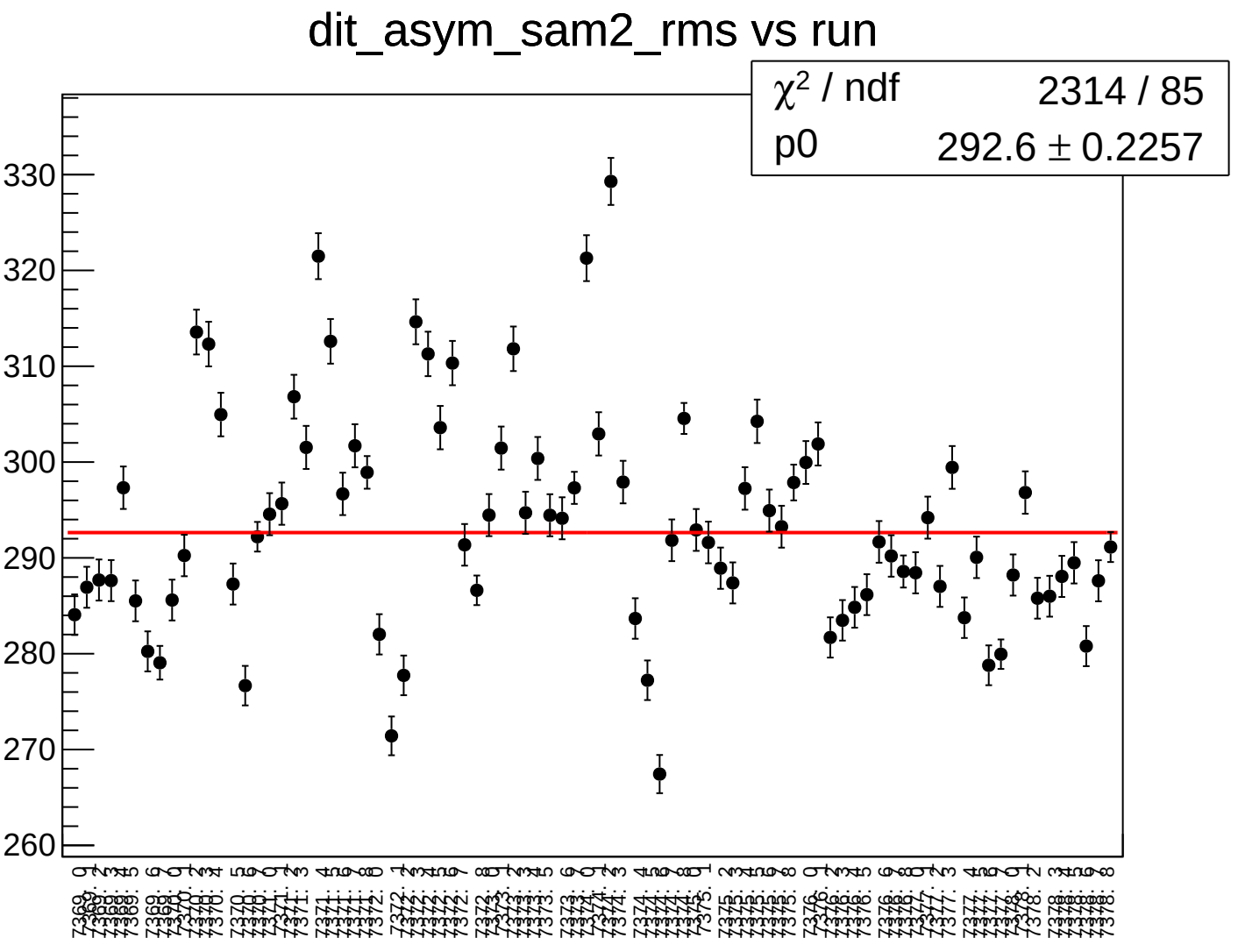

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1199 / 85
p0 254.6 ± 0.1963
275
270
265
260
255
250
245
240
235
230

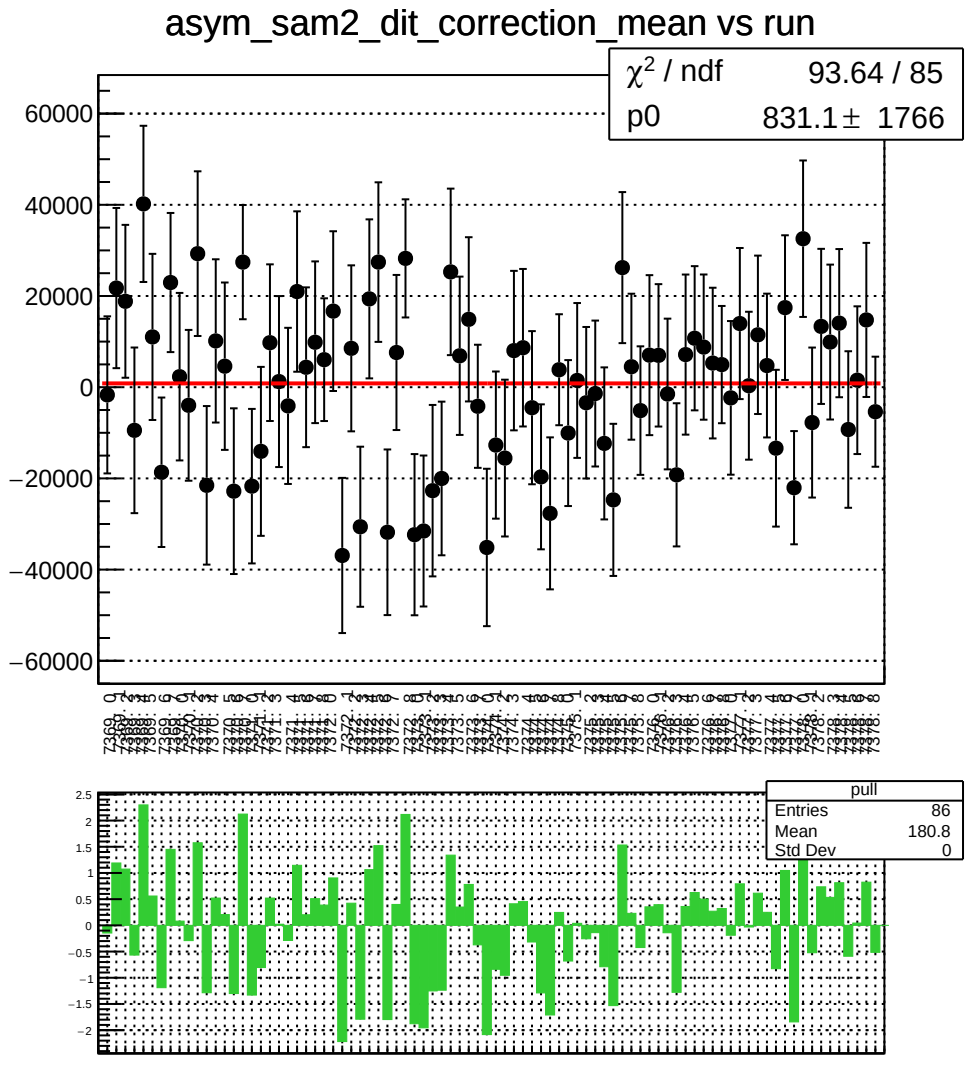

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 91.42 / 85
p0 991.2 ± 1715
pull
Entries 86
Mean 125.9
Std Dev 0
pull1D
Entries 86
Mean −0.01065
Std Dev 1.031

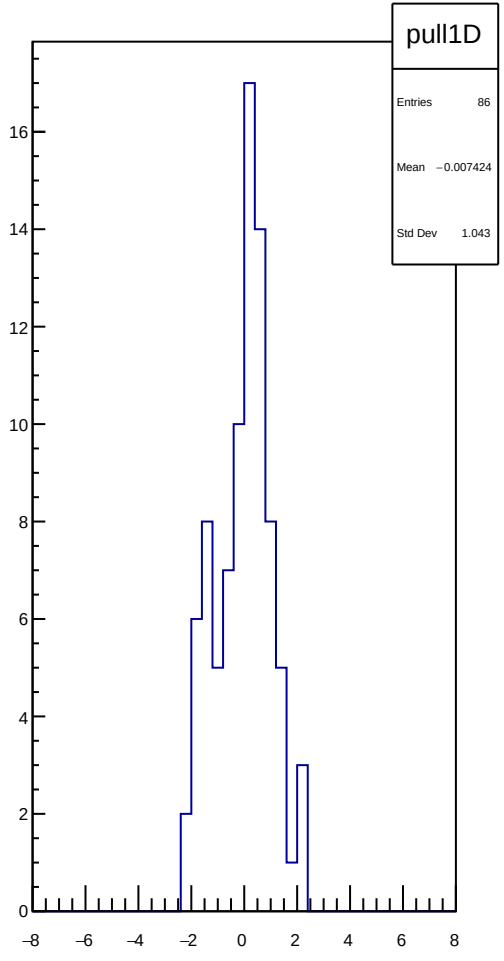

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 3913 / 85
p0 1572 ± 1.213
1800
1750
1700
1650
1600
1550
1500
1450
1400

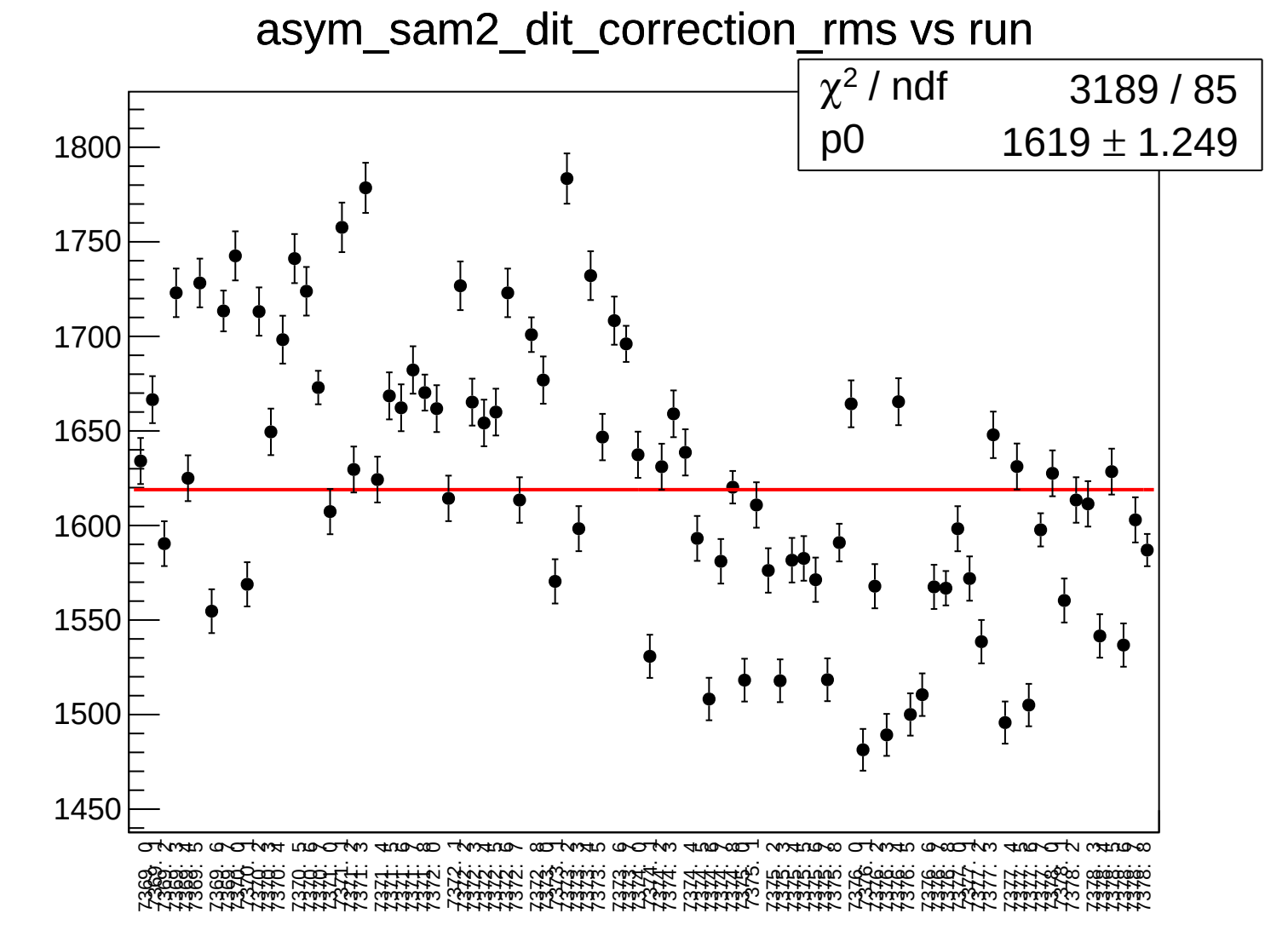

dit_asym_sam2_mean vs run
χ^2 / ndf 84.27 / 85
p0 −554.5 ± 319.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −73.67
Std Dev 0
2
1
0
−1
−2

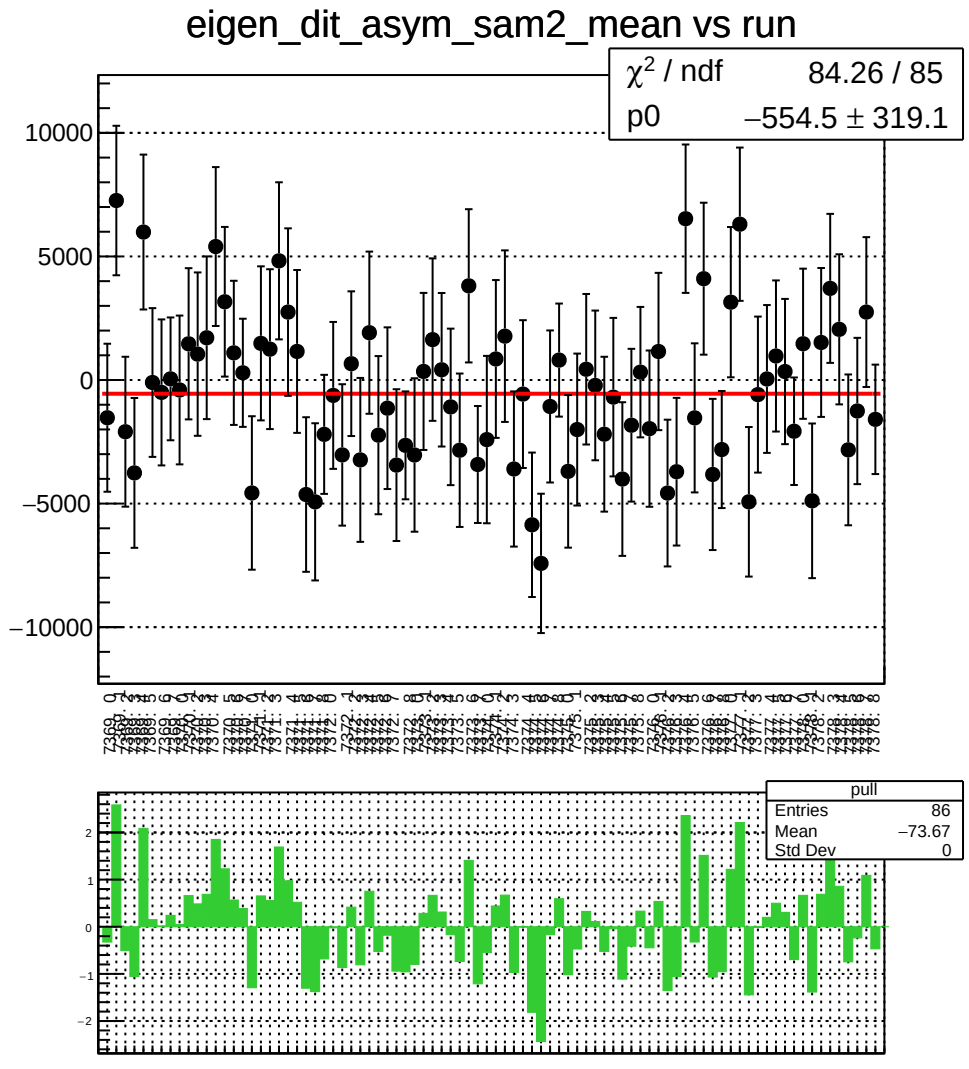

pull1D
Entries 86
Mean 0.02096
Std Dev 0.9896
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

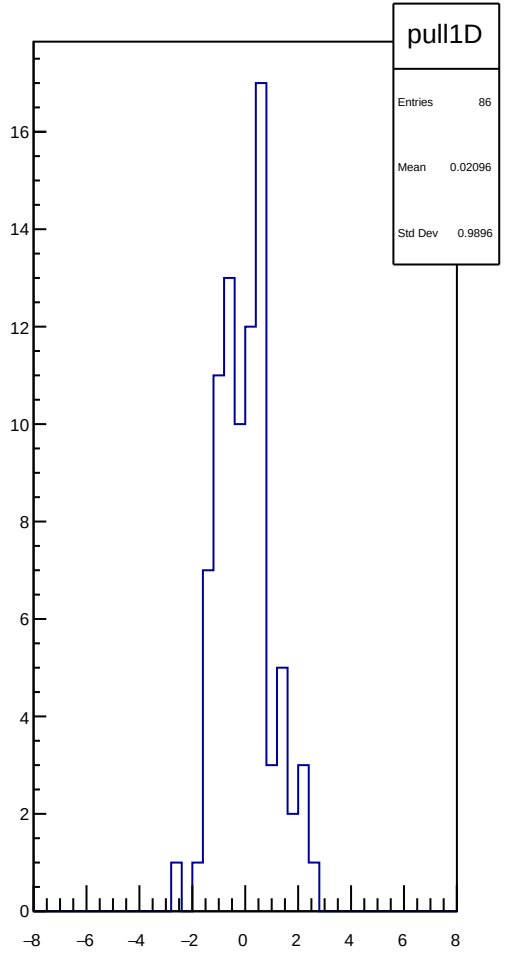

dit_asym_sam2_rms vs run
χ² / ndf 2314 / 85
p0 292.6 ± 0.2257
330
320
310
300
290
280
270
260

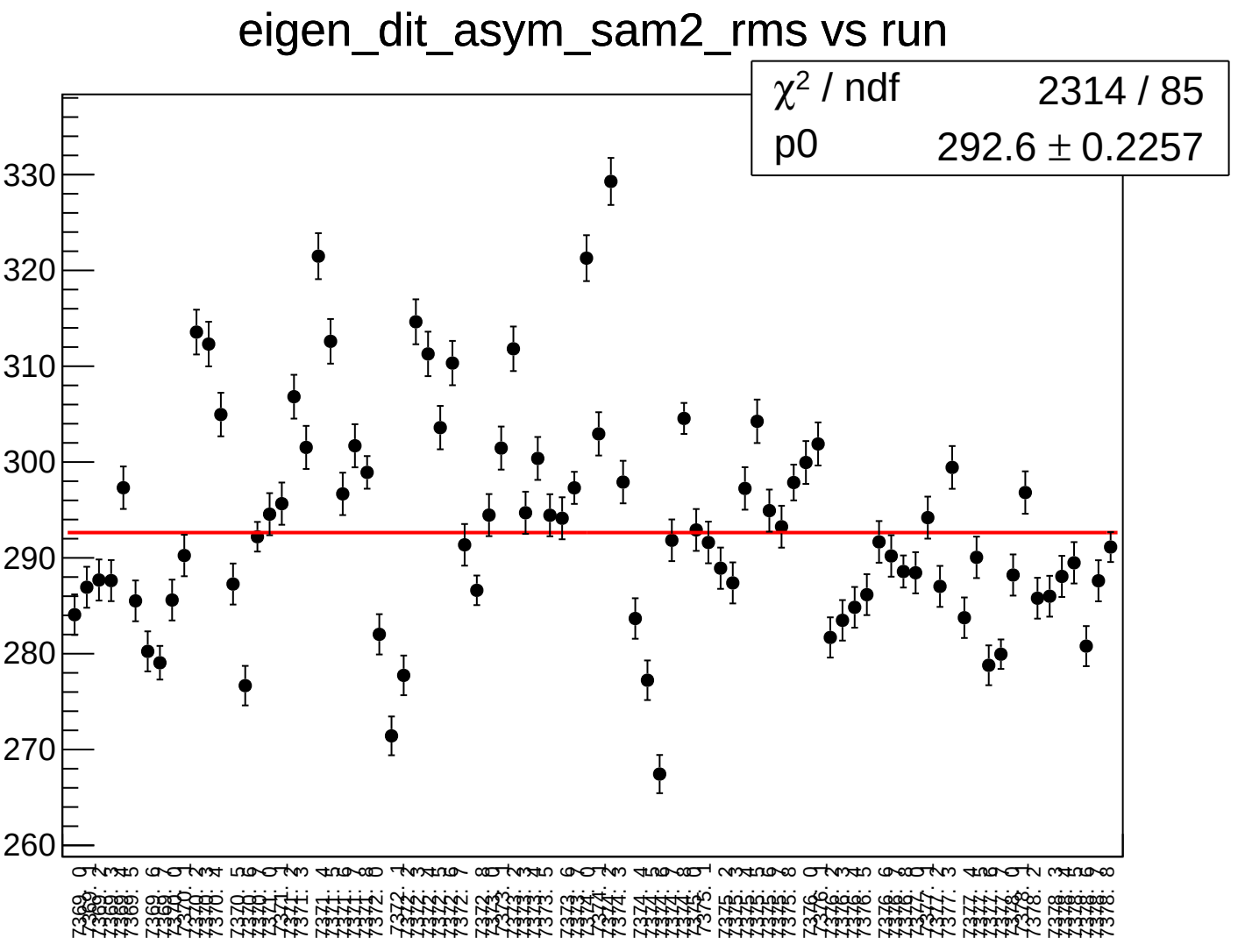

asym_sam2_dit_correction_mean vs run
χ² / ndf 93.64 / 85
p0 831.1 ± 1766
pull
Entries 86
Mean 180.8
Std Dev 0

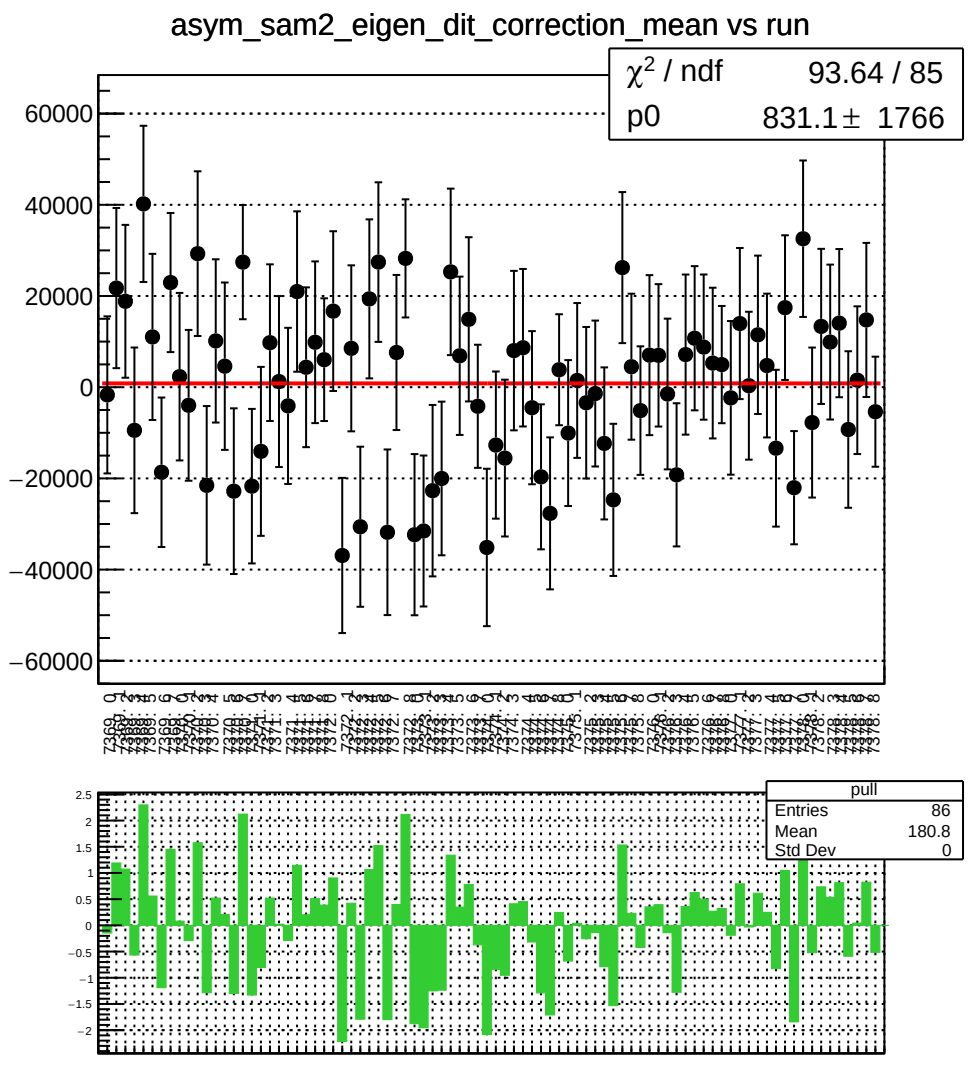

pull1D
Entries 86
Mean −0.007424
Std Dev 1.043

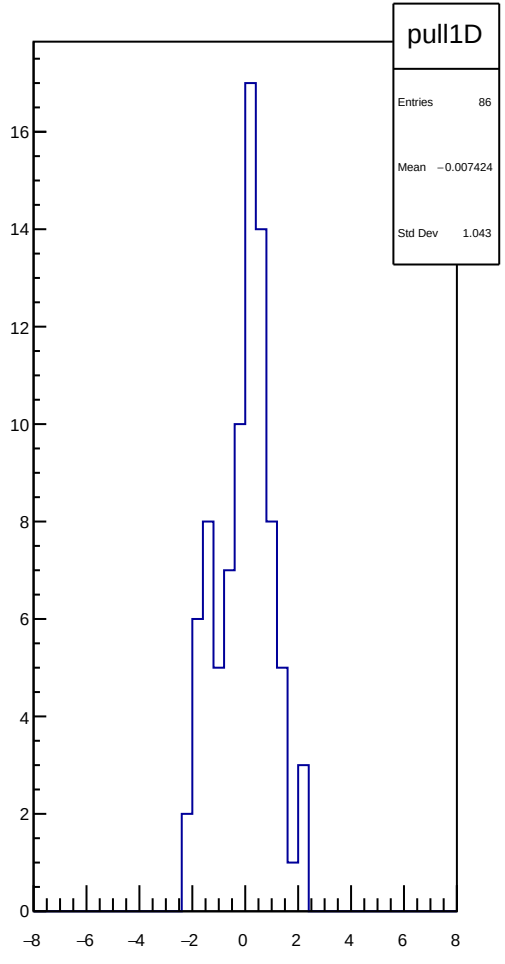

asym_sam2_dit_correction_rms vs run
χ² / ndf 3189 / 85
p0 1619 ± 1.249
1800
1750
1700
1650
1600
1550
1500
1450

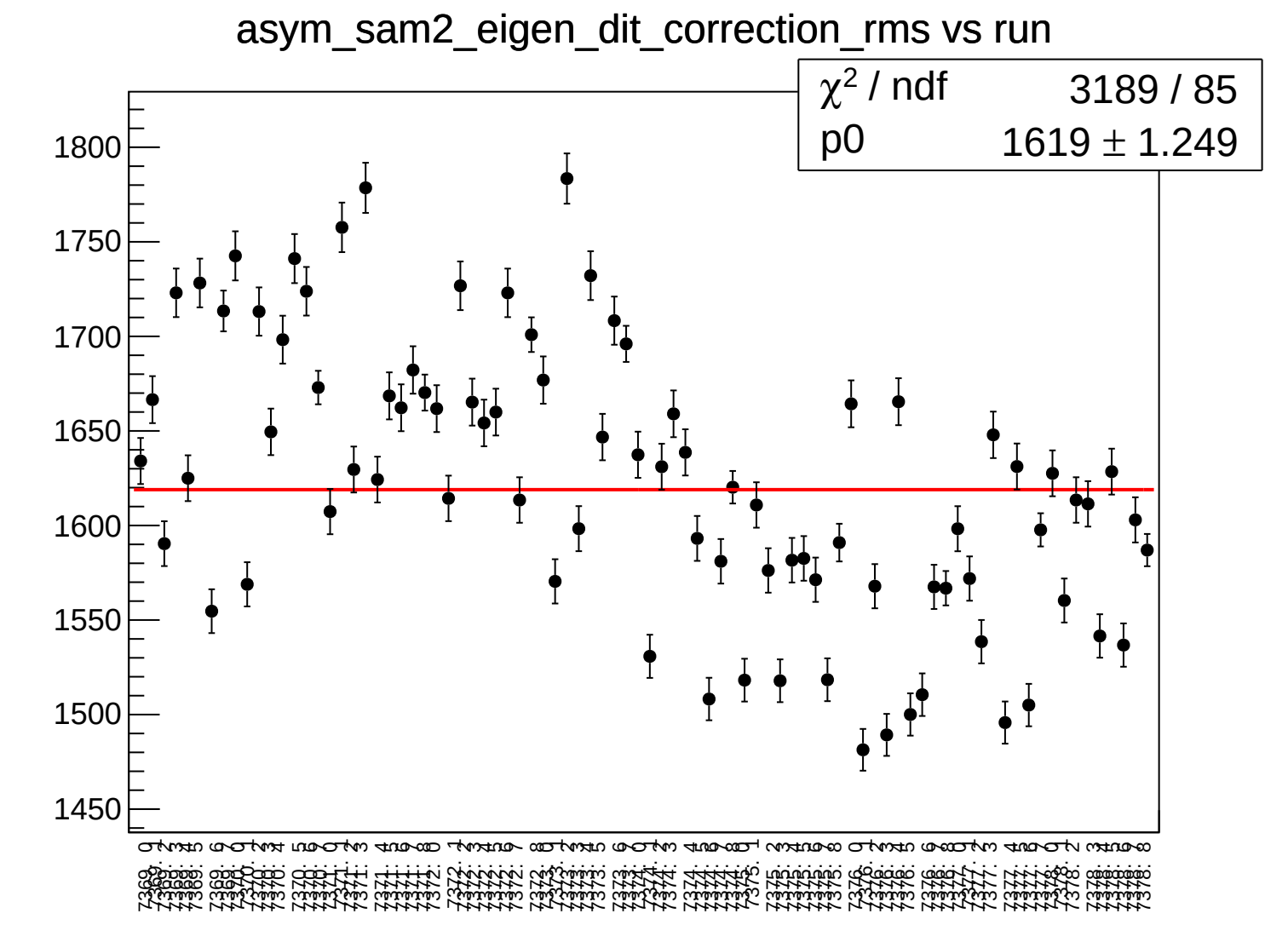

eigen_dit_asym_sam2_mean vs run
χ² / ndf 84.26 / 85
p0 −554.5 ± 319.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −73.67
Std Dev 0
2
1
0
−1
−2

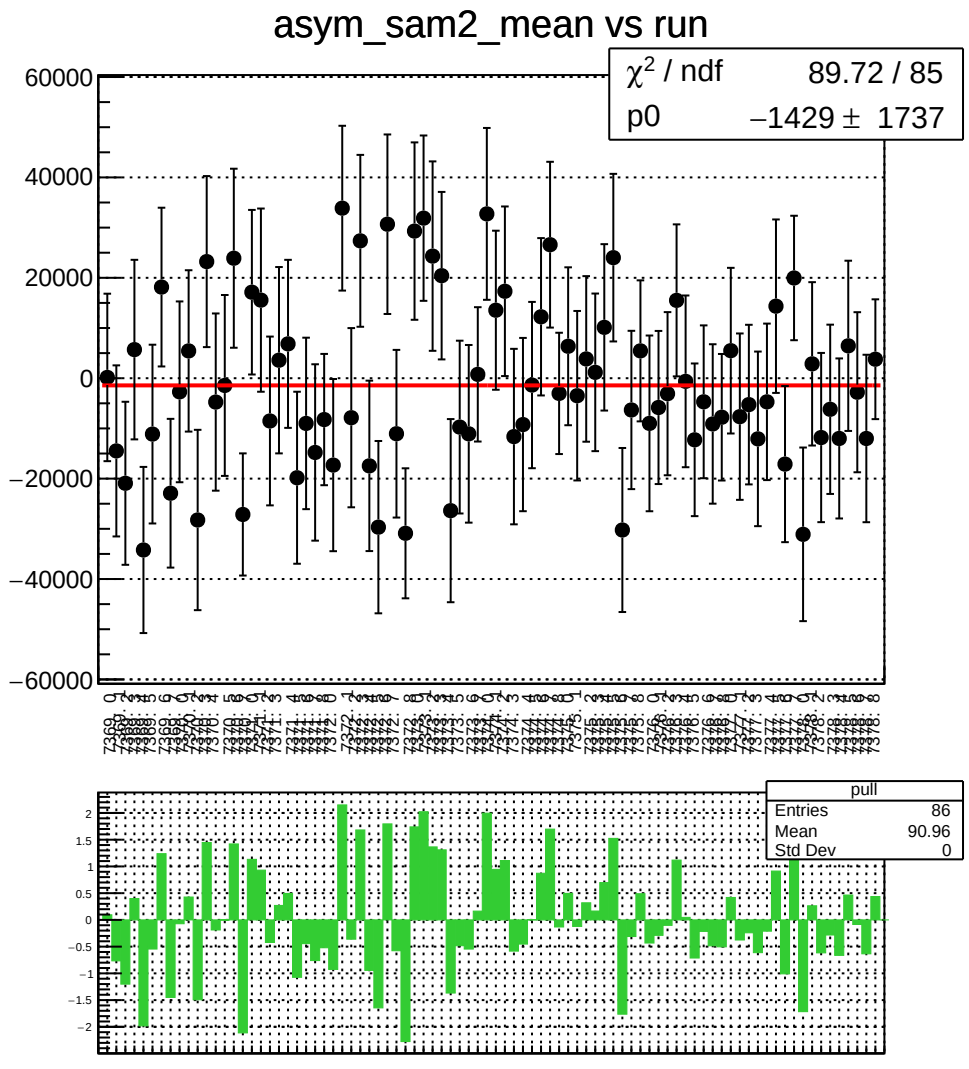

pull1D
Entries 86
Mean 0.02096
Std Dev 0.9896
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

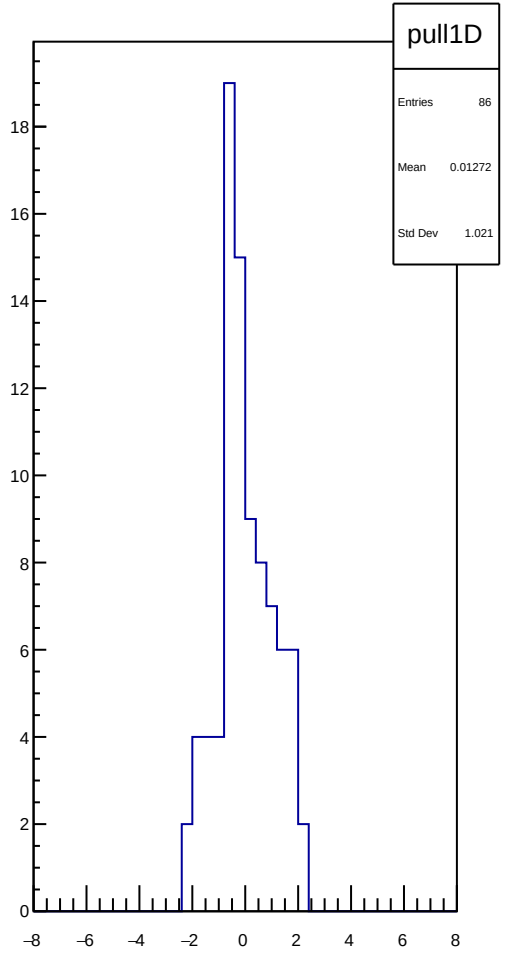

eigen_dit_asym_sam2_rms vs run
χ² / ndf 2314 / 85
p0 292.6 ± 0.2257
330
320
310
300
290
280
270
260

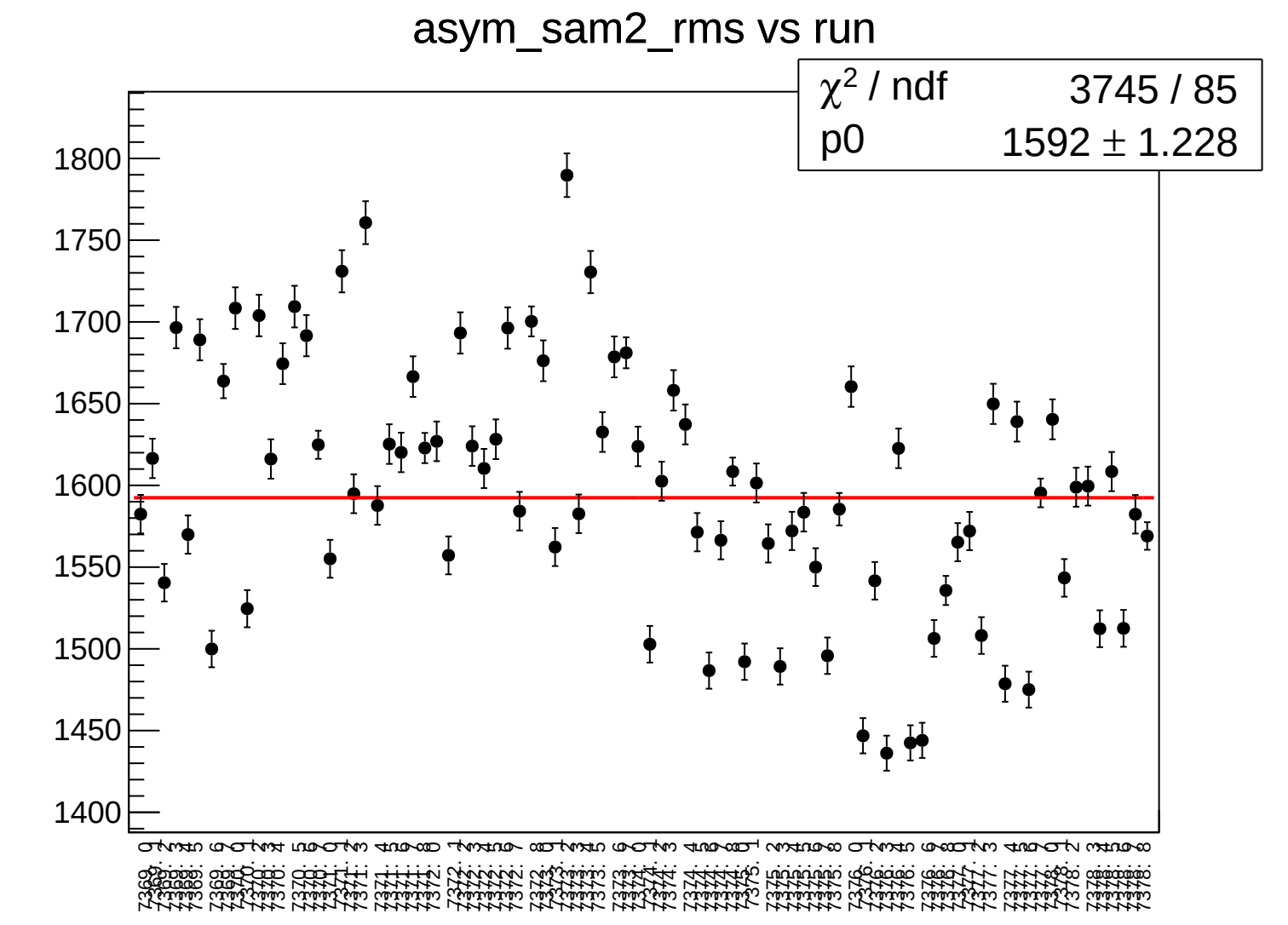

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 93.64 / 85
p0 831.1 ± 1766
pull
Entries 86
Mean 180.8
Std Dev 0

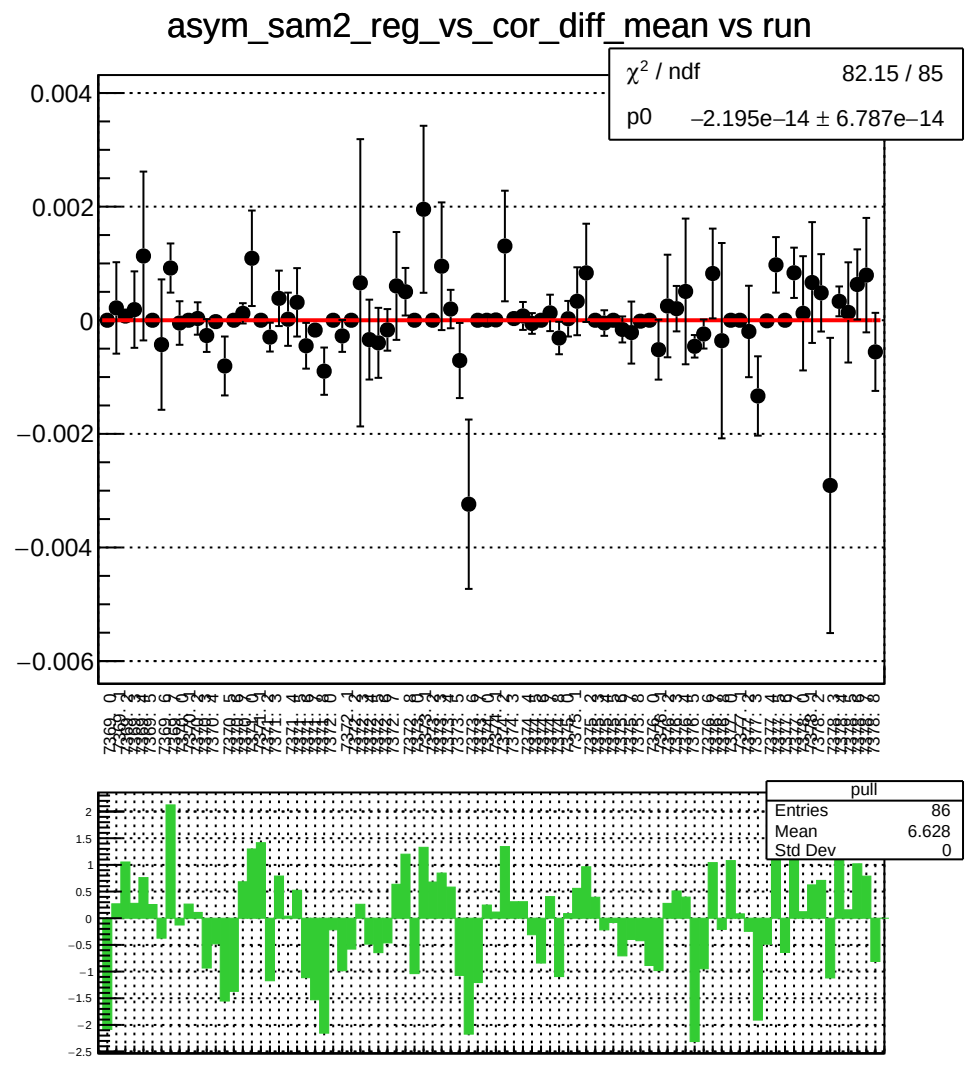

pull1D
Entries 86
Mean −0.007424
Std Dev 1.043

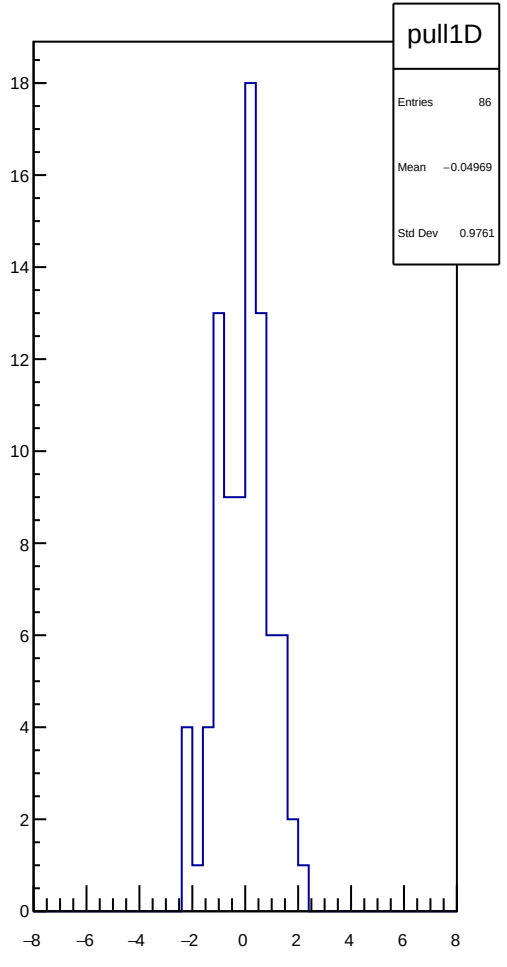

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 3189 / 85
p0 1619 ± 1.249
1800
1750
1700
1650
1600
1550
1500
1450

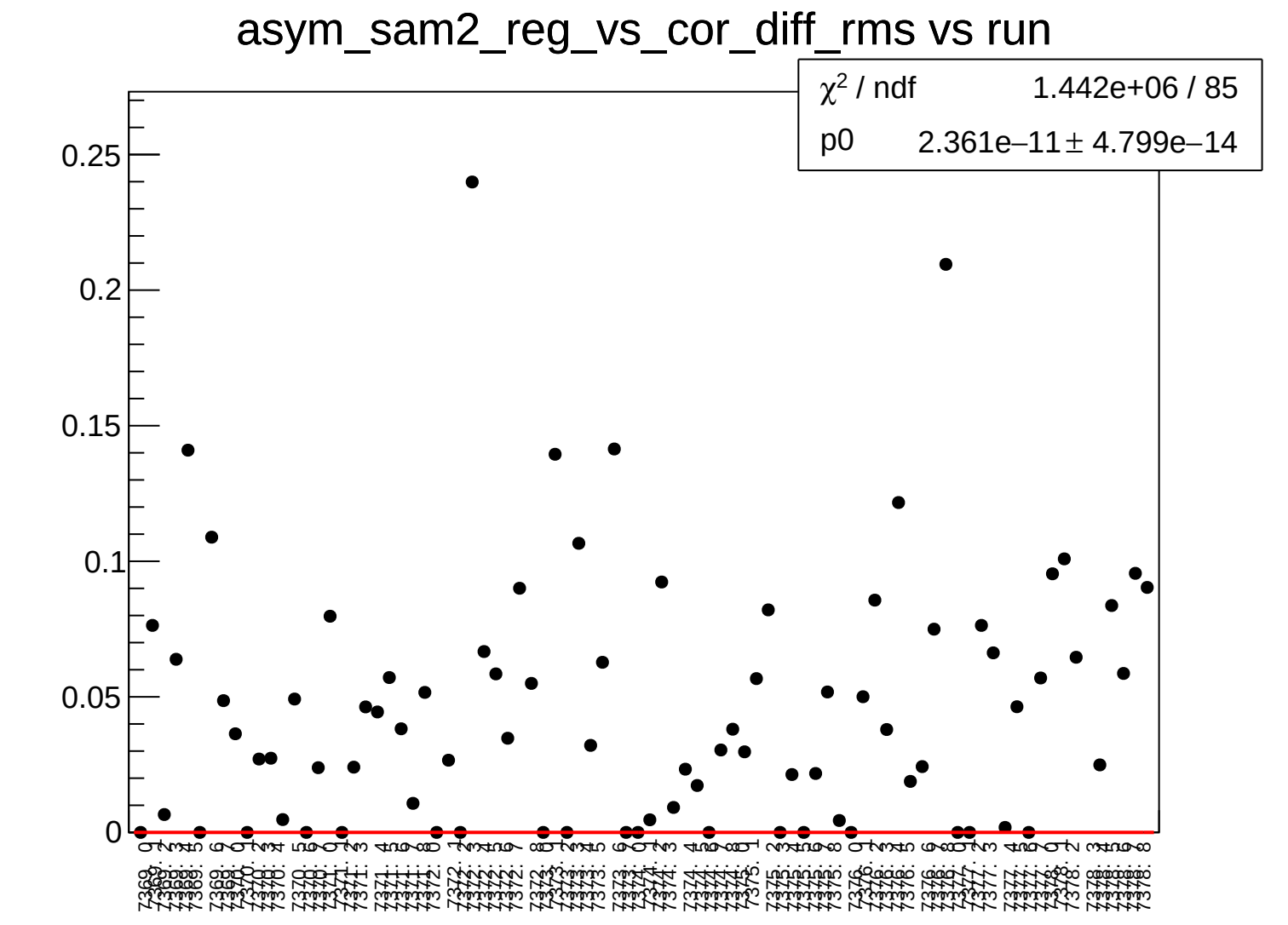

asym_sam2_mean vs run
χ² / ndf 89.72 / 85
p0 −1429 ± 1737
pull
Entries 86
Mean 90.96
Std Dev 0

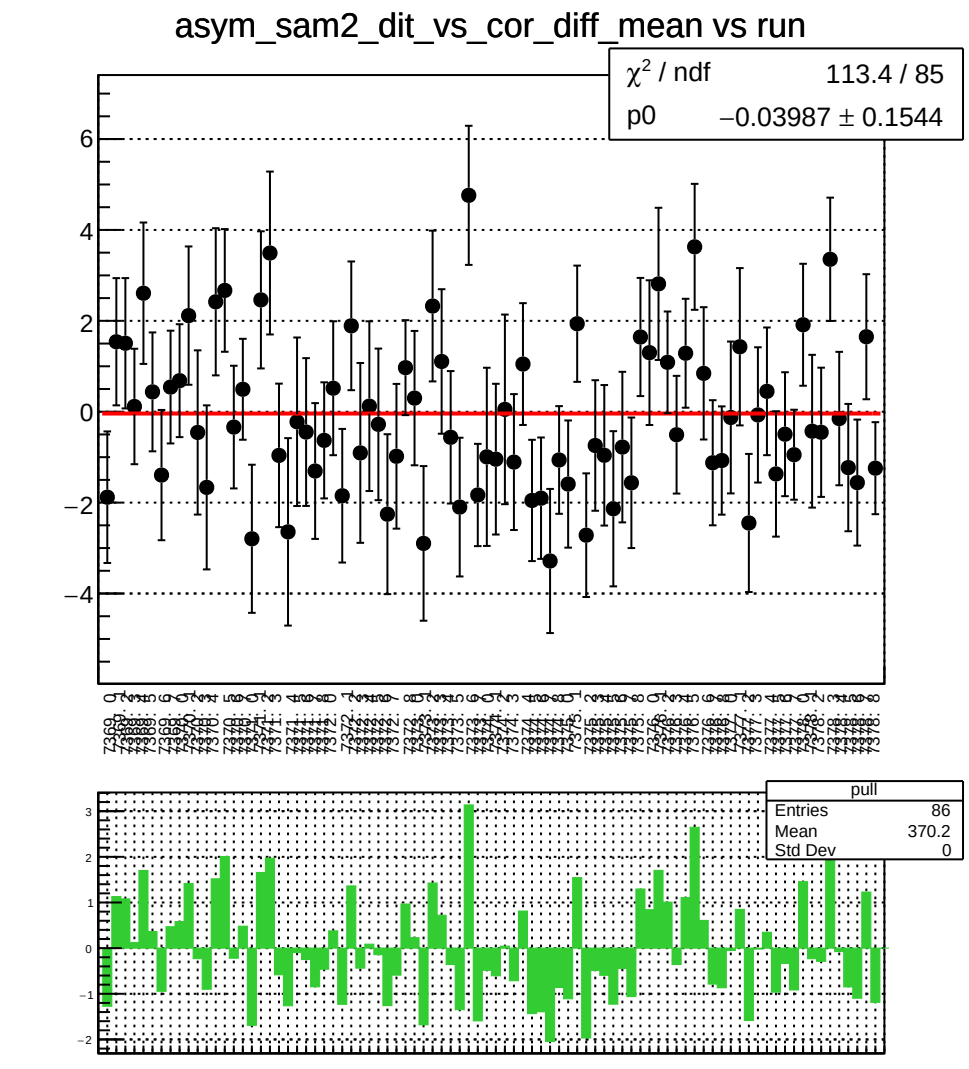

pull1D
Entries 86
Mean 0.01272
Std Dev 1.021

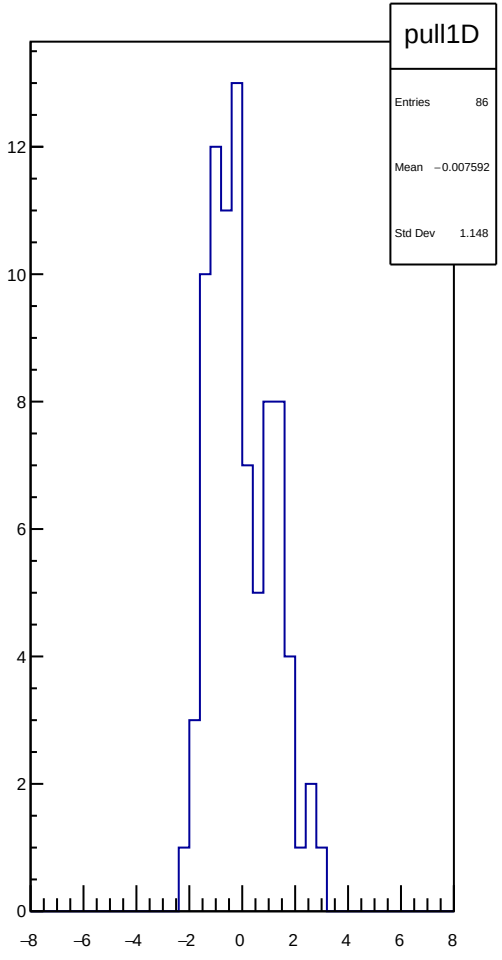

asym_sam2_rms vs run
χ² / ndf 3745 / 85
p0 1592 ± 1.228
1800
1750
1700
1650
1600
1550
1500
1450
1400

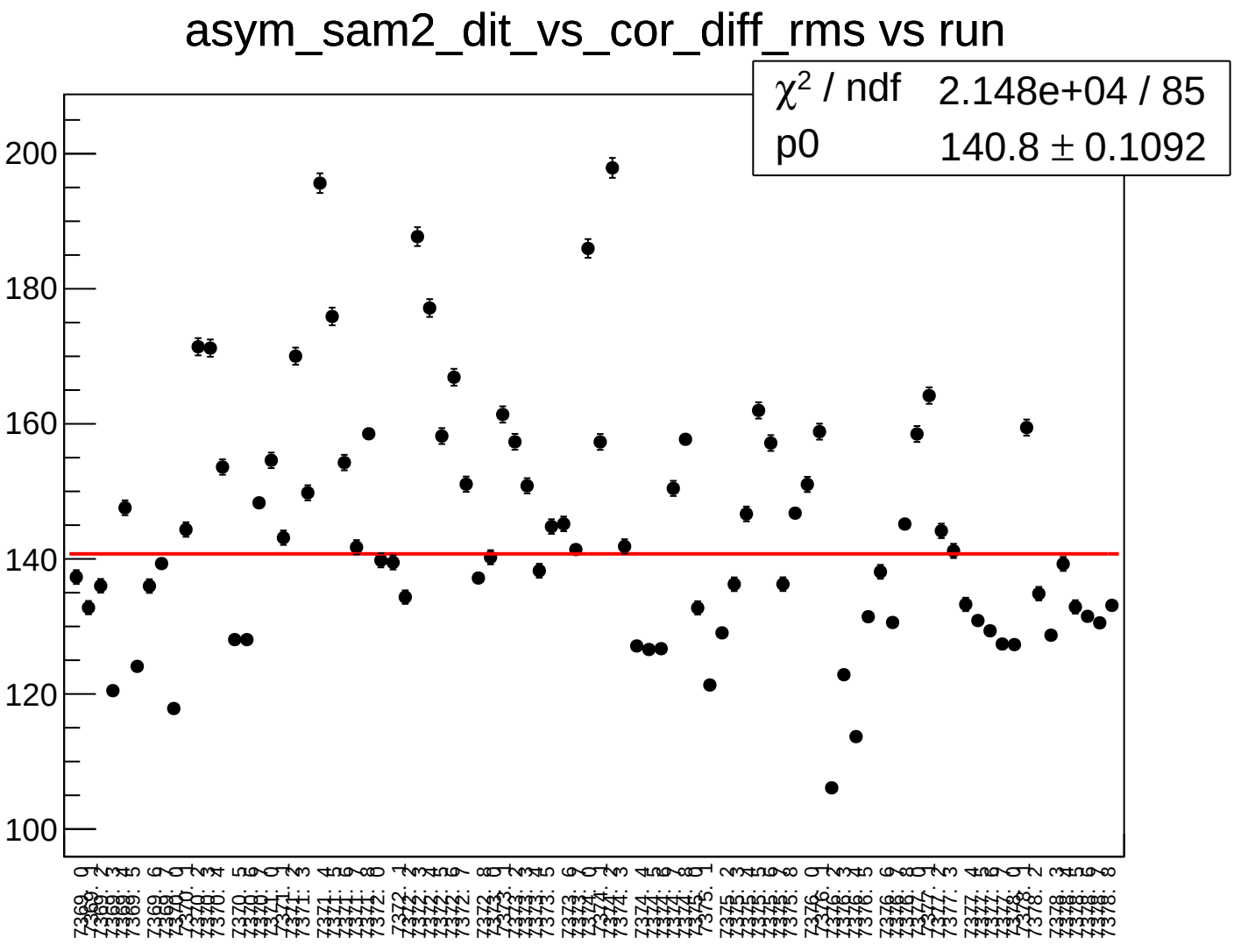

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 82.15 / 85
p0 −2.195e−14 ± 6.787e−14
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 86
Mean 6.628
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

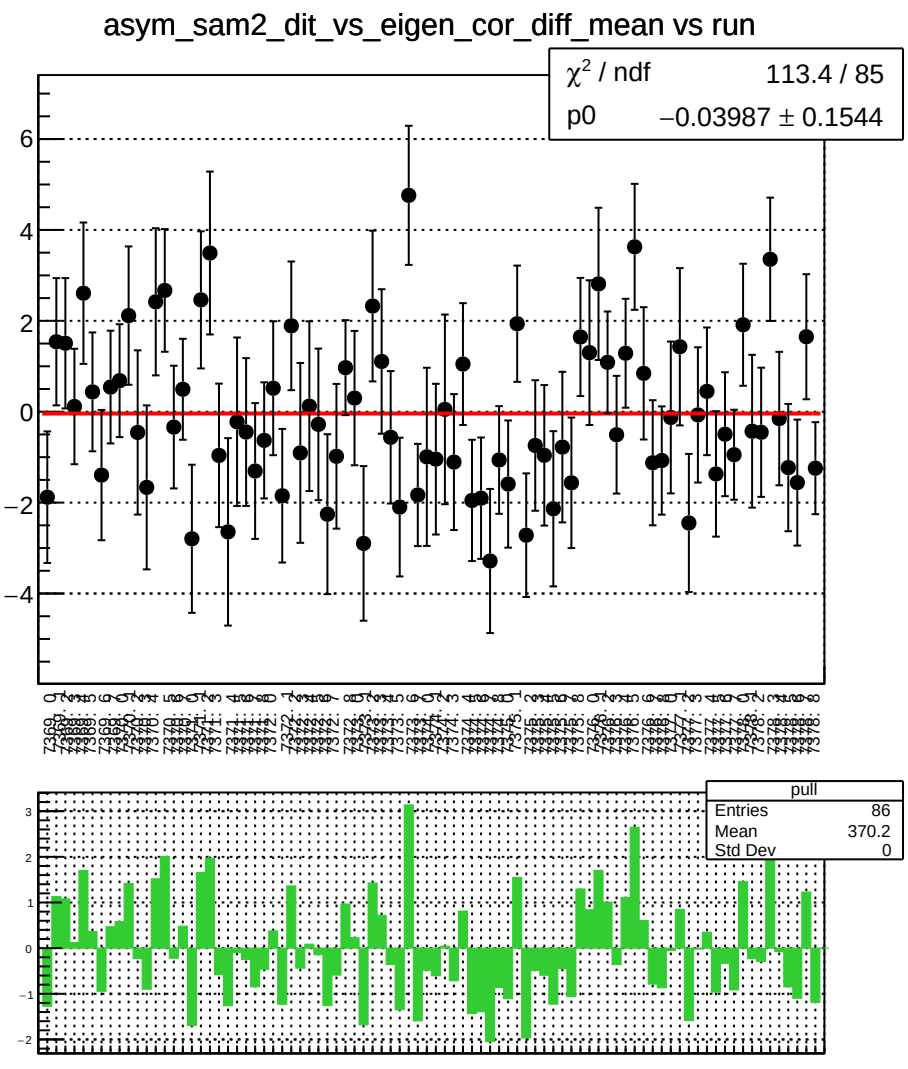

pull1D
Entries 86
Mean −0.04969
Std Dev 0.9761
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

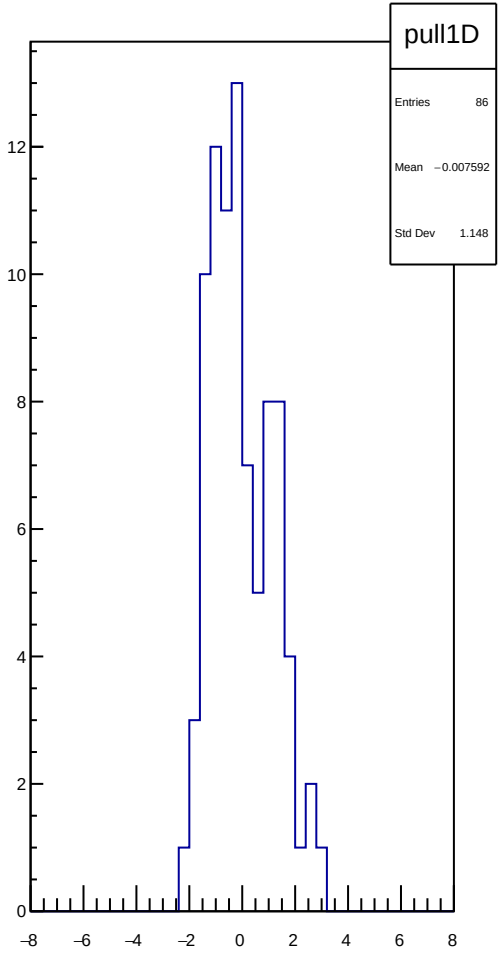

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.442e+06 / 85
p0 2.361e−11 ± 4.799e−14
0.25
0.2
0.15
0.1
0.05
0

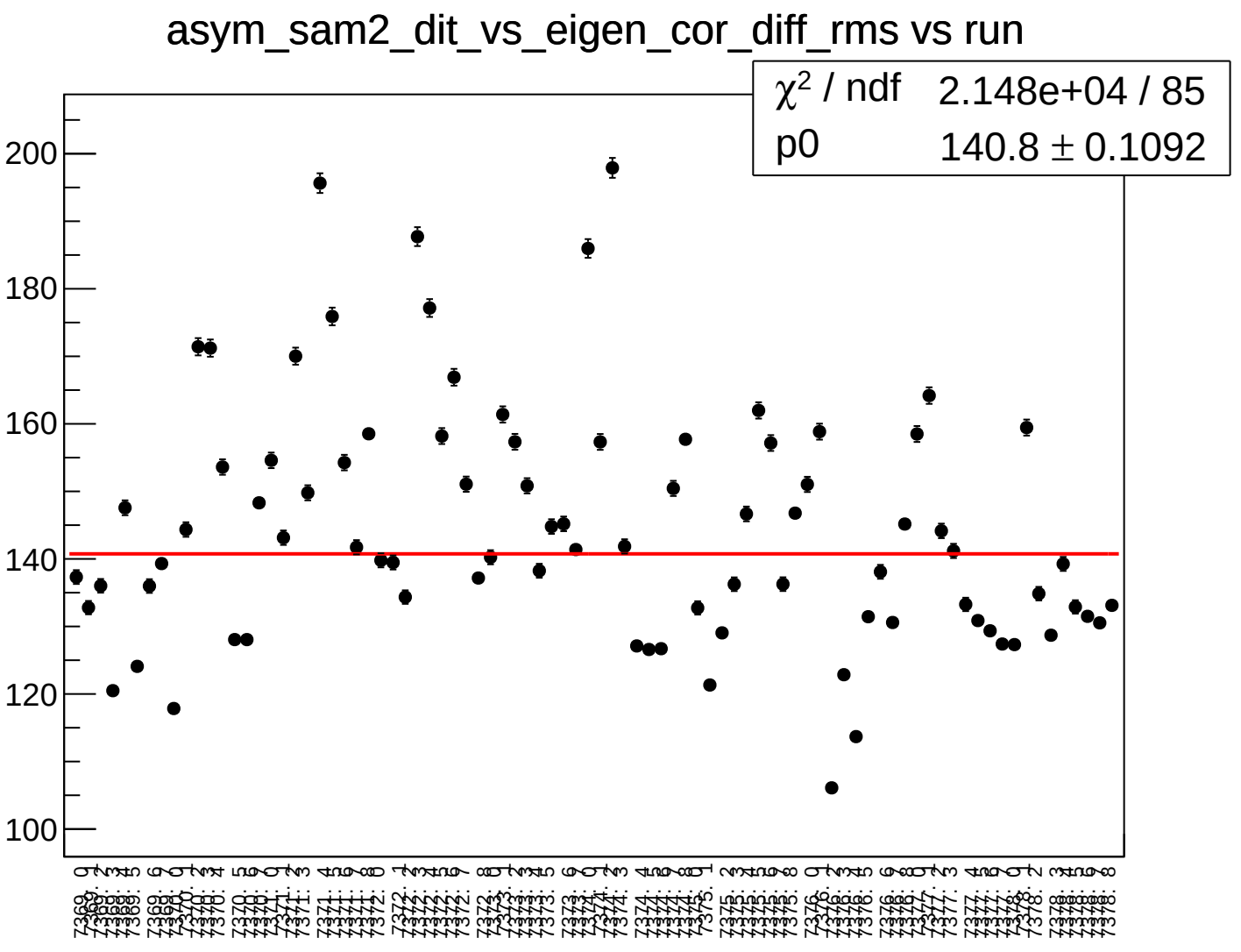

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 85
p0 −0.03987 ± 0.1544
pull
Entries 86
Mean 370.2
Std Dev 0

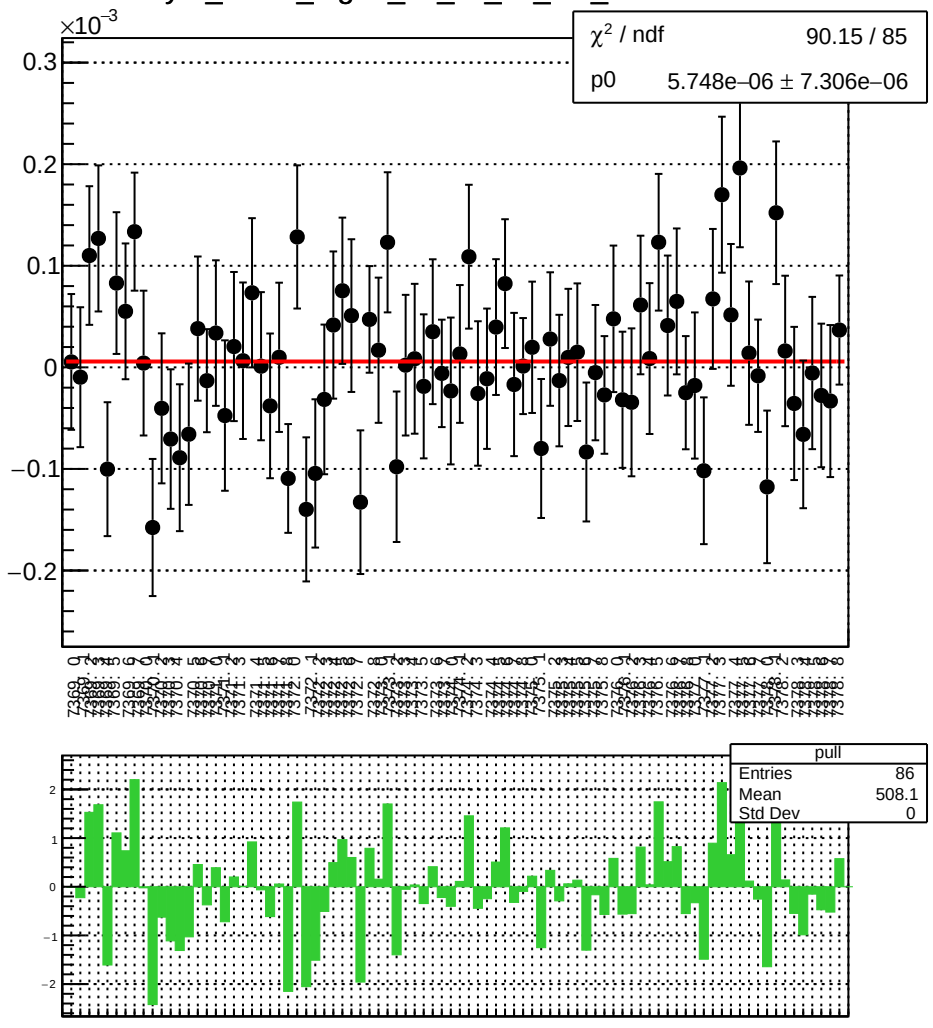

pull1D
Entries 86
Mean −0.007592
Std Dev 1.148

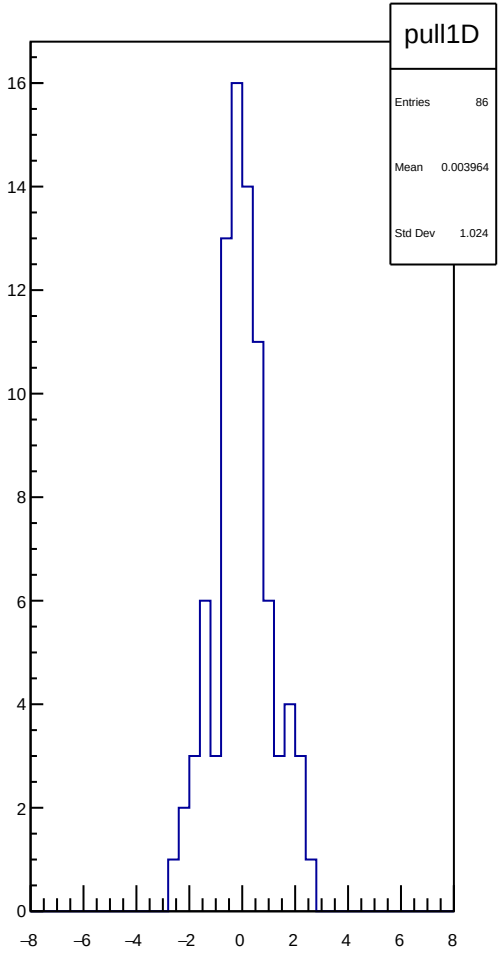

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.148e+04 / 85
p0 140.8 ± 0.1092
200
180
160
140
120
100

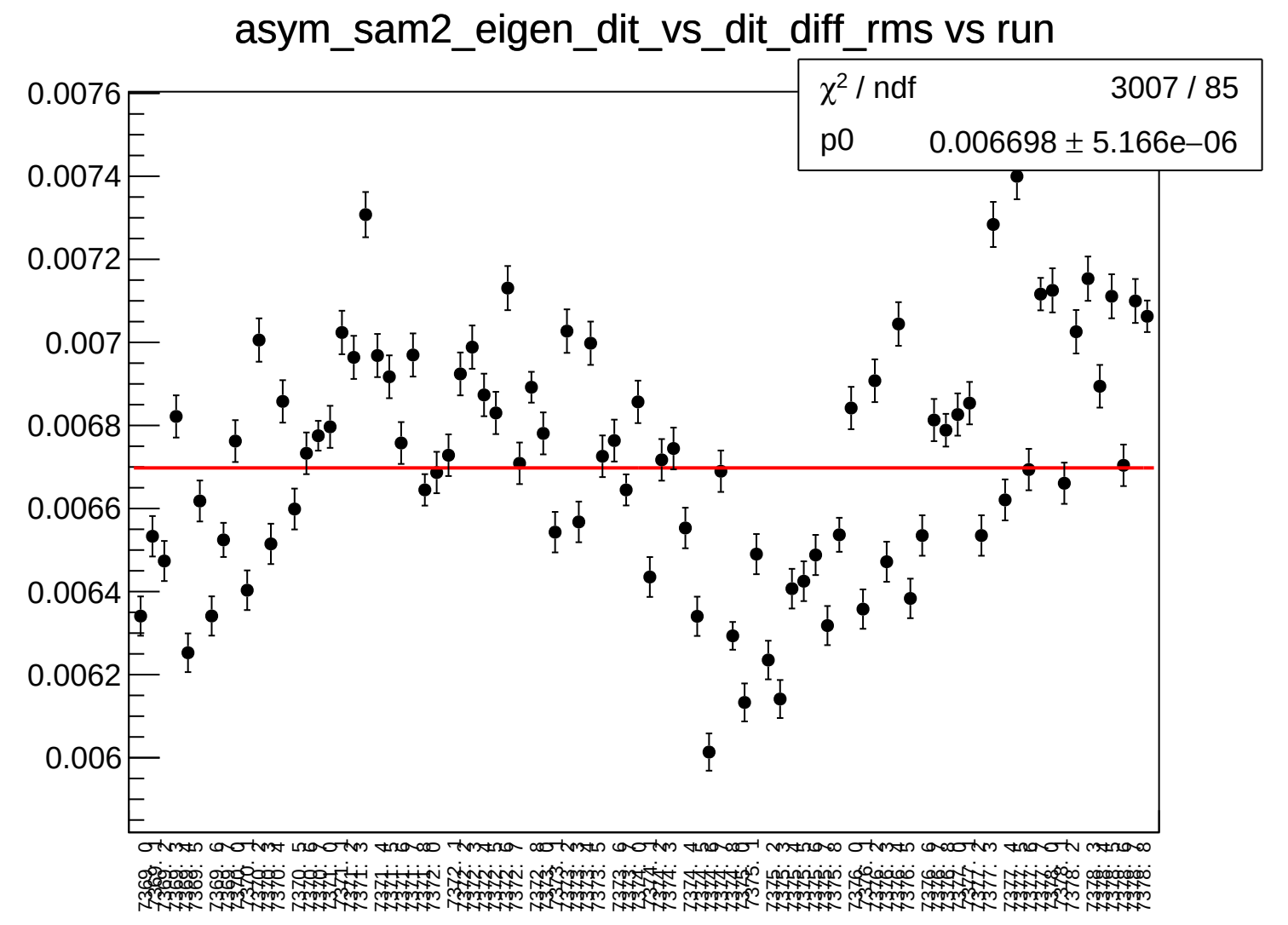

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.4 / 85
p0 −0.03987 ± 0.1544
pull
Entries 86
Mean 370.2
Std Dev 0

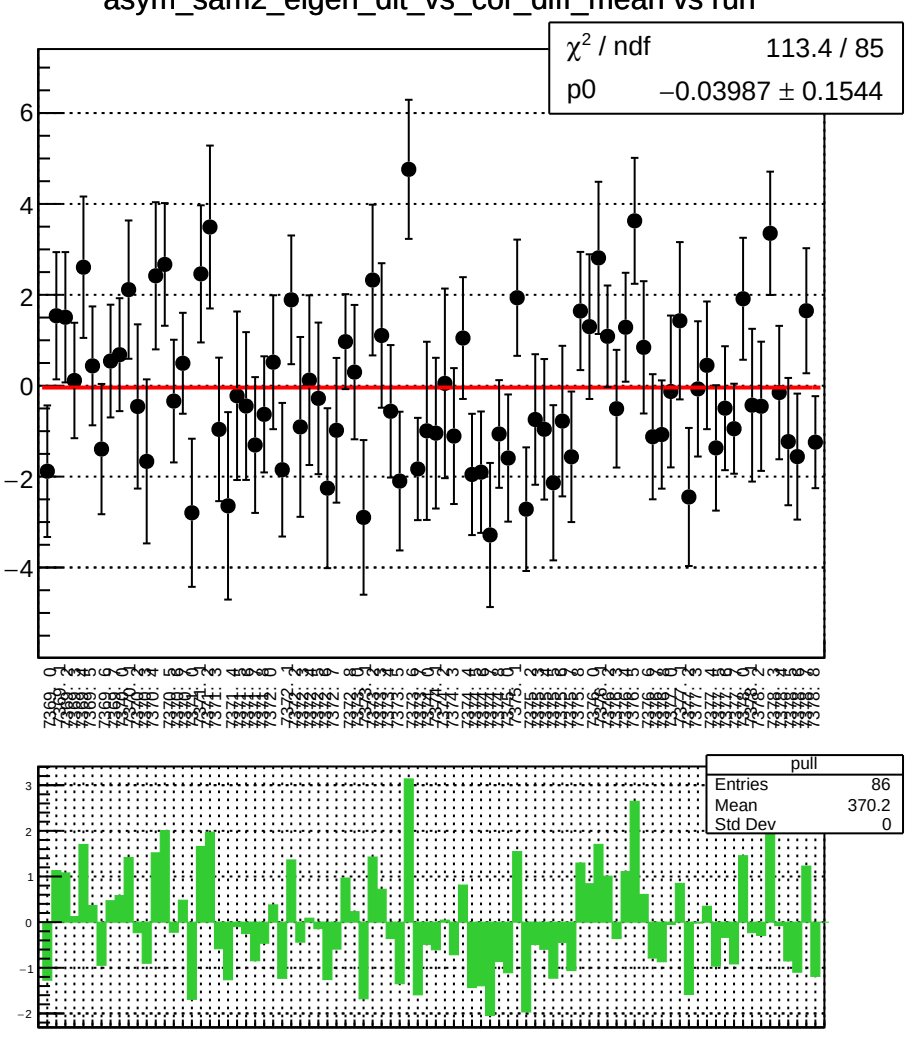

pull1D
Entries 86
Mean −0.007592
Std Dev 1.148

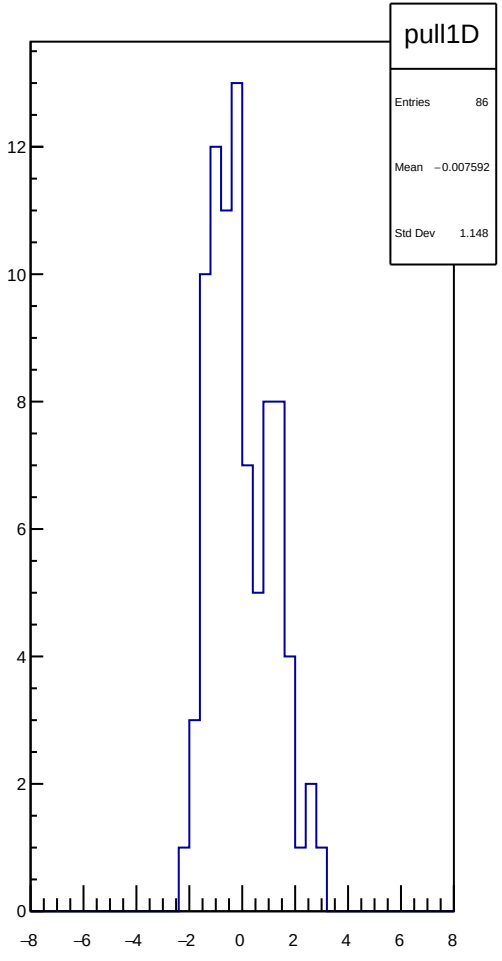

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.148e+04 / 85
p0 140.8 ± 0.1092
200
180
160
140
120
100

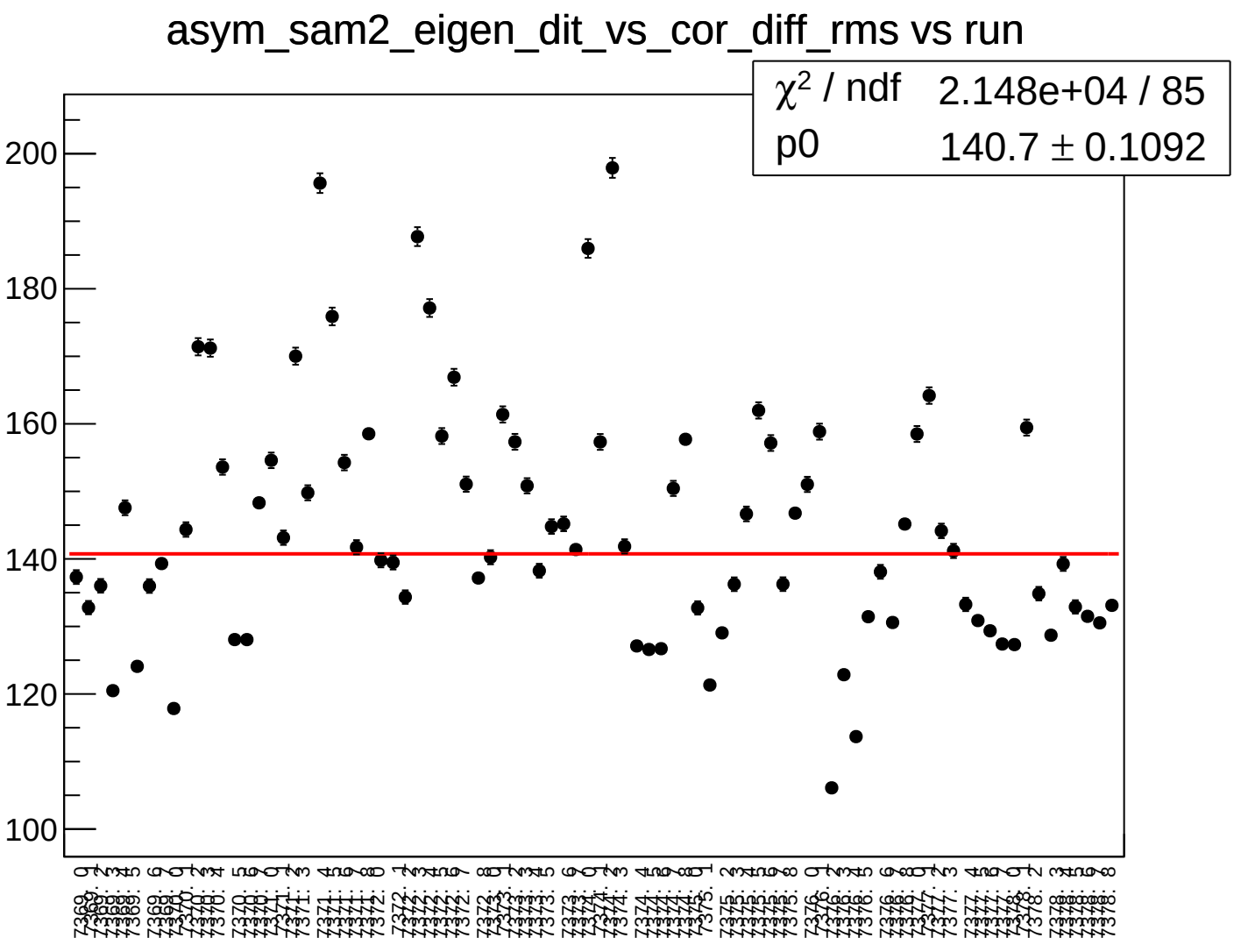

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.15 / 85
p0 5.748e−06 ± 7.306e−06
pull
Entries 86
Mean 508.1
Std Dev 0

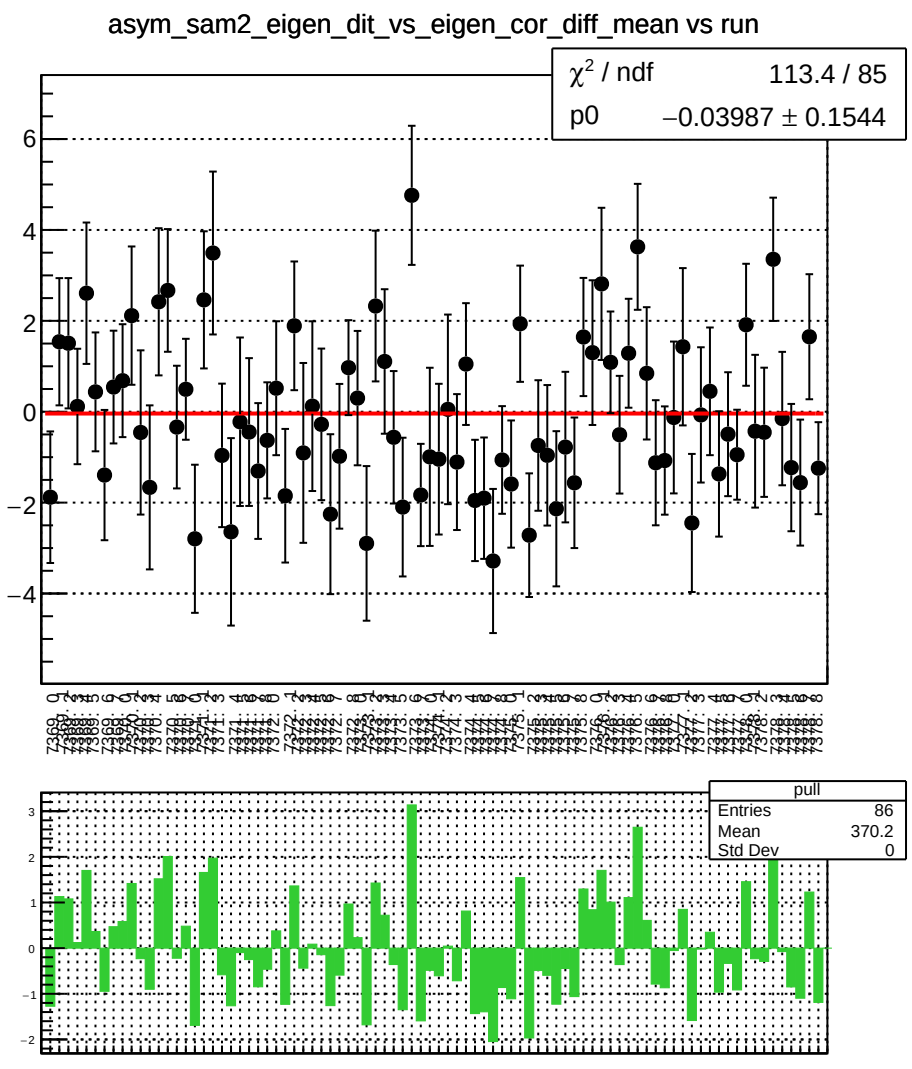

pull1D
Entries 86
Mean 0.003964
Std Dev 1.024

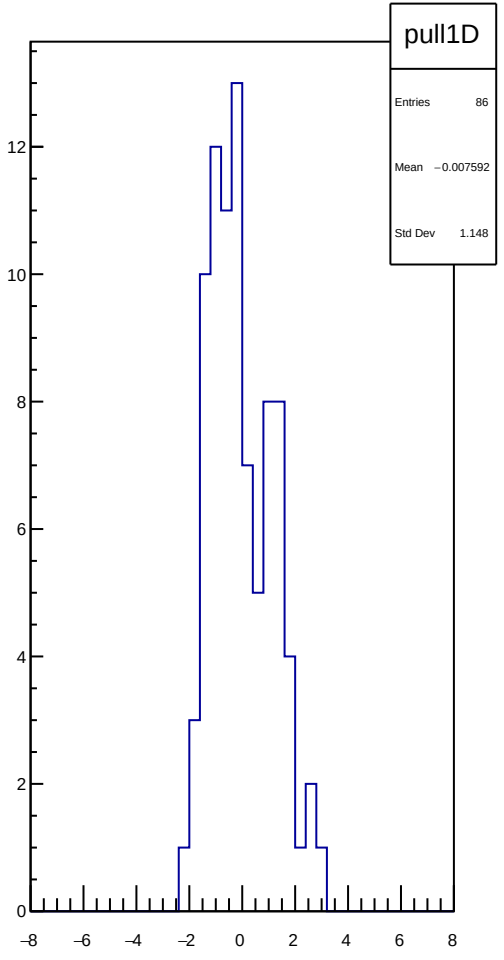

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3007 / 85
p0 0.006698 ± 5.166e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

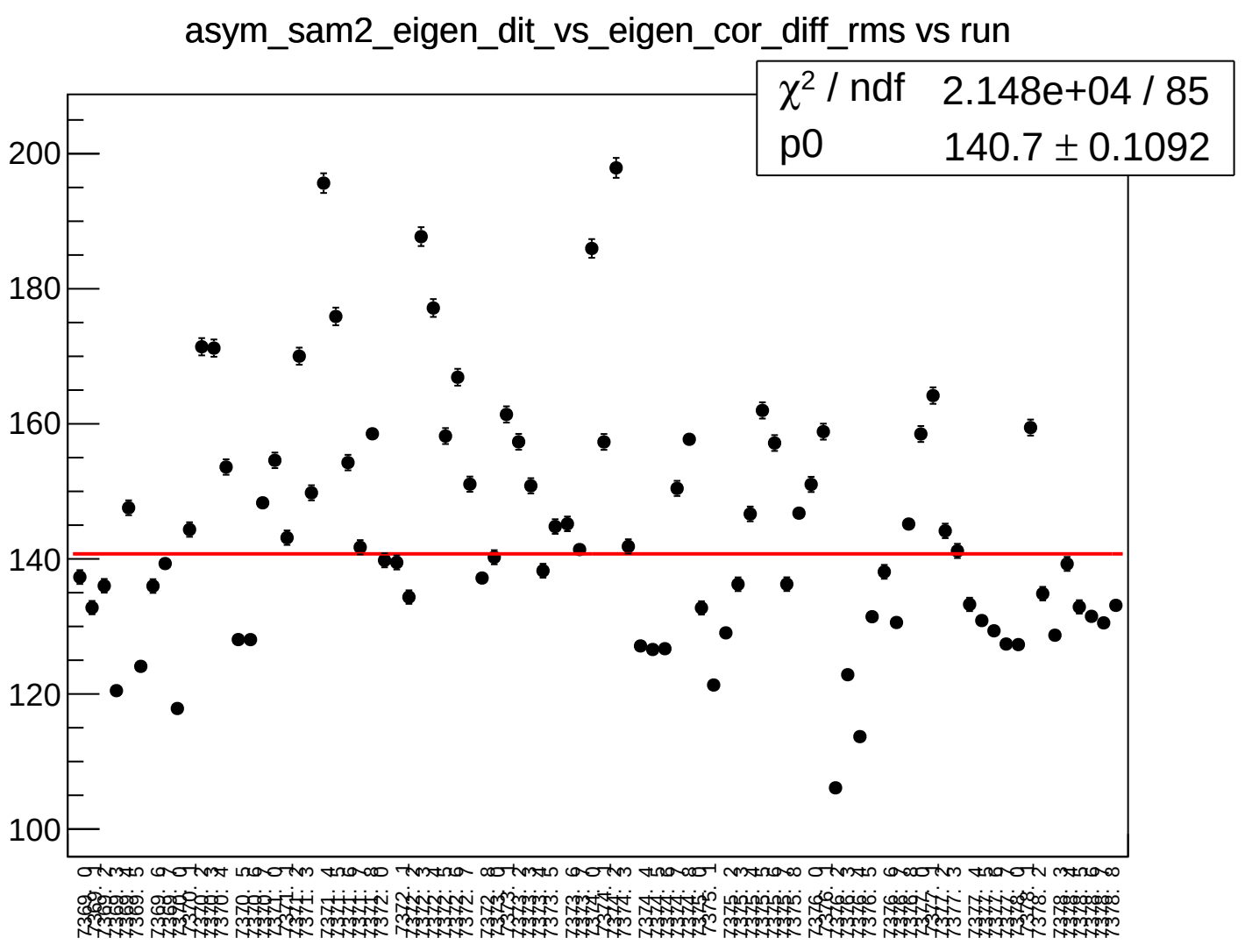

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 85
p0 −0.03987 ± 0.1544
pull
Entries 86
Mean 370.2
Std Dev 0

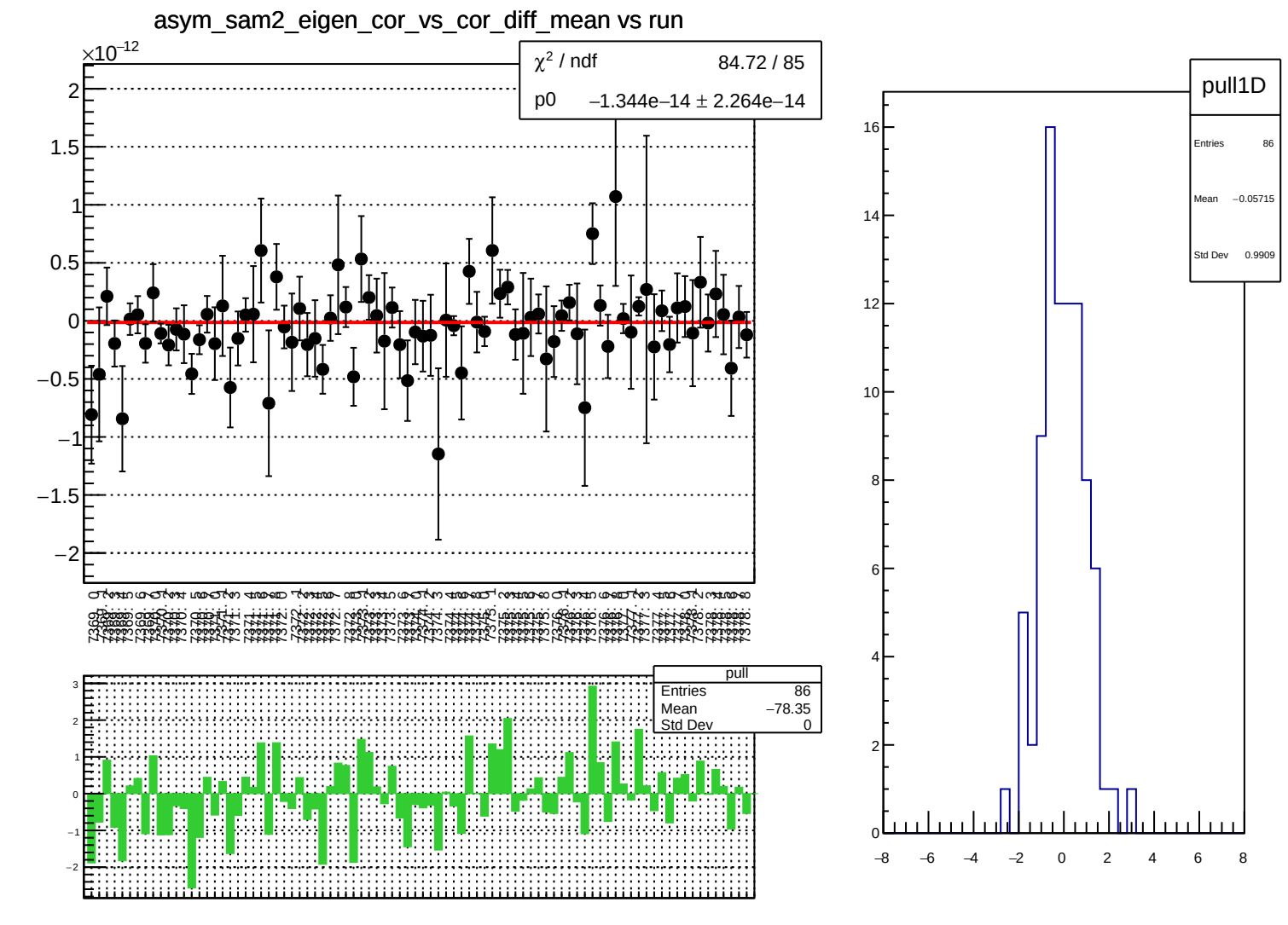

pull1D
Entries 86
Mean −0.007592
Std Dev 1.148

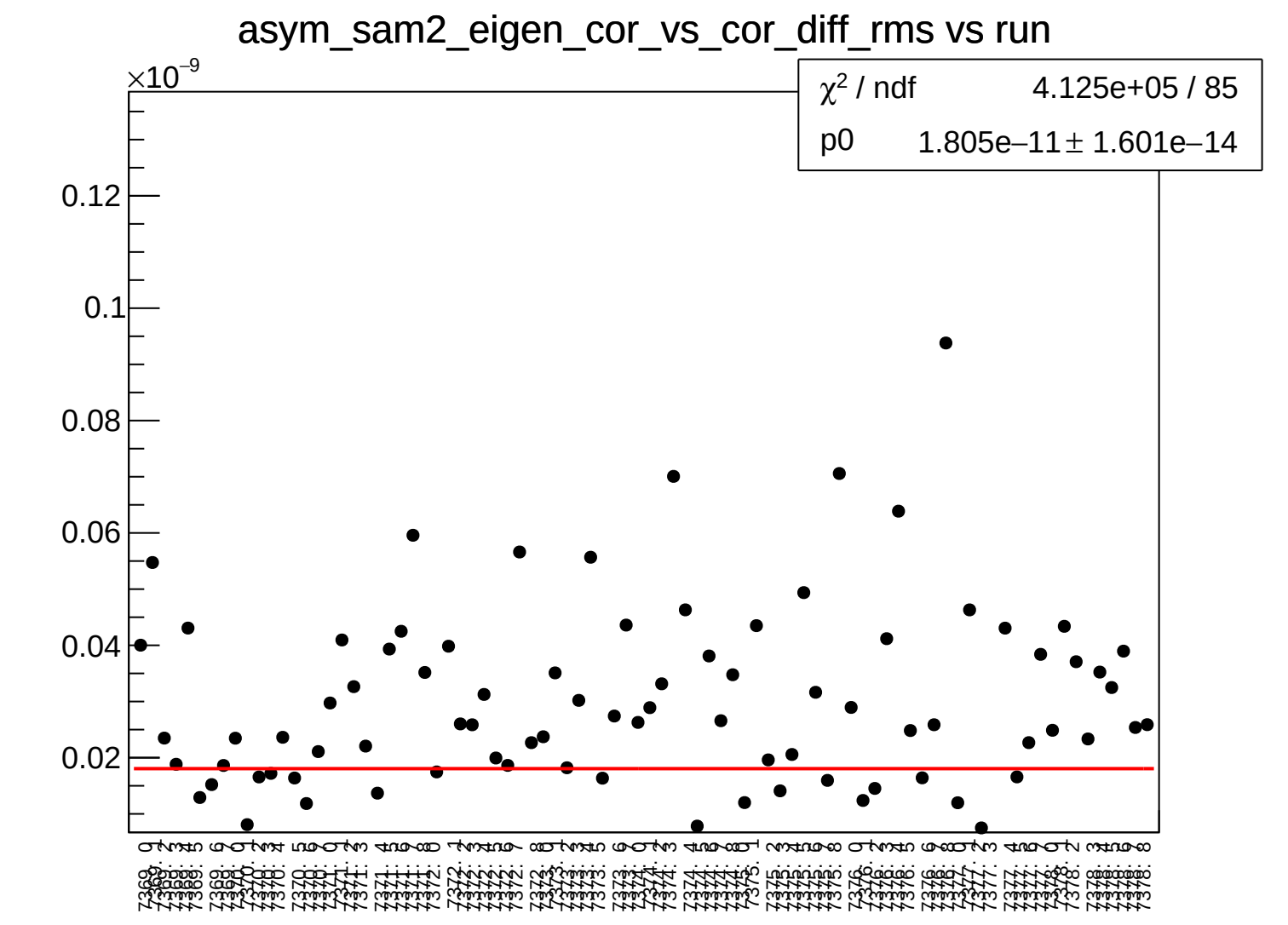

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.148e+04 / 85
p0 140.7 ± 0.1092
200
180
160
140
120
100

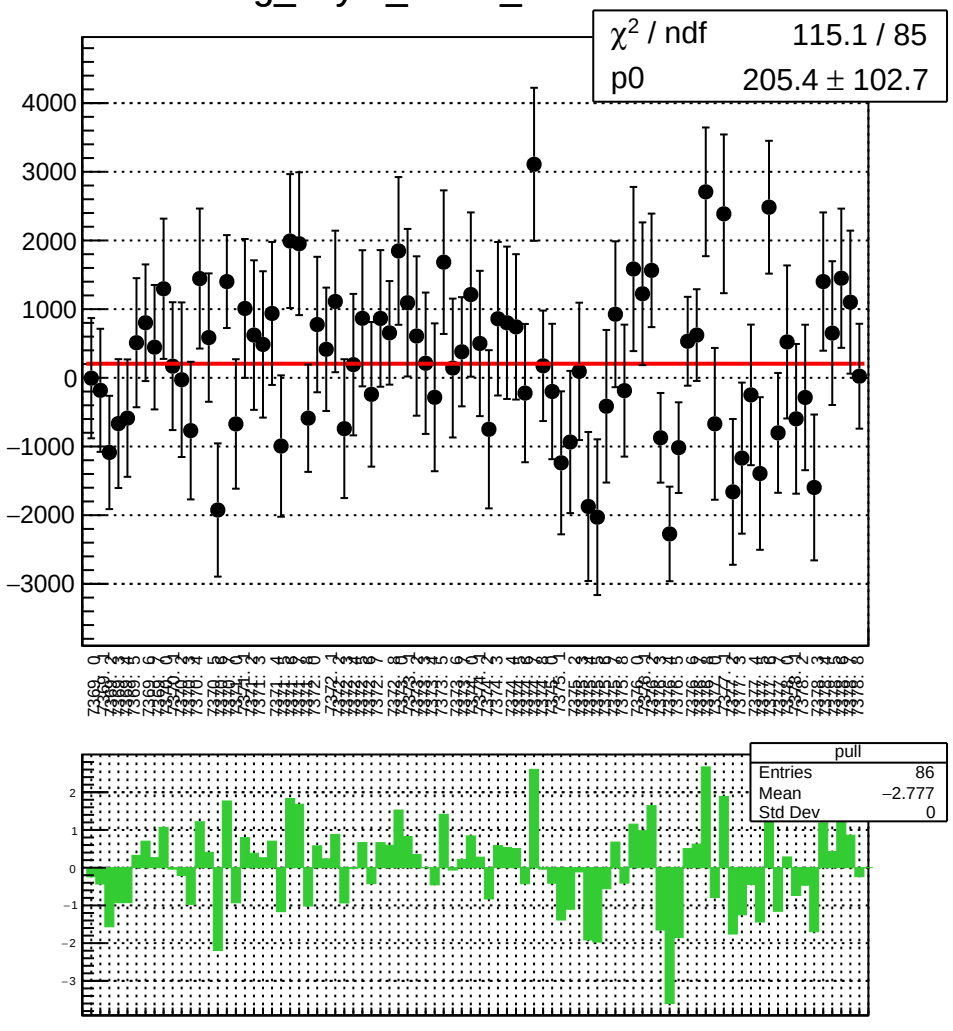

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.4 / 85
p0 −0.03987 ± 0.1544
pull
Entries 86
Mean 370.2
Std Dev 0

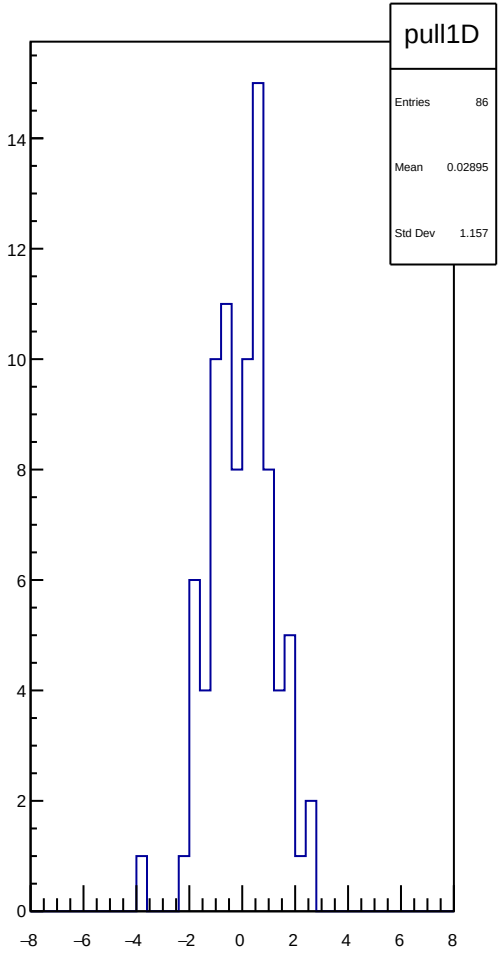

pull1D
Entries 86
Mean −0.007592
Std Dev 1.148

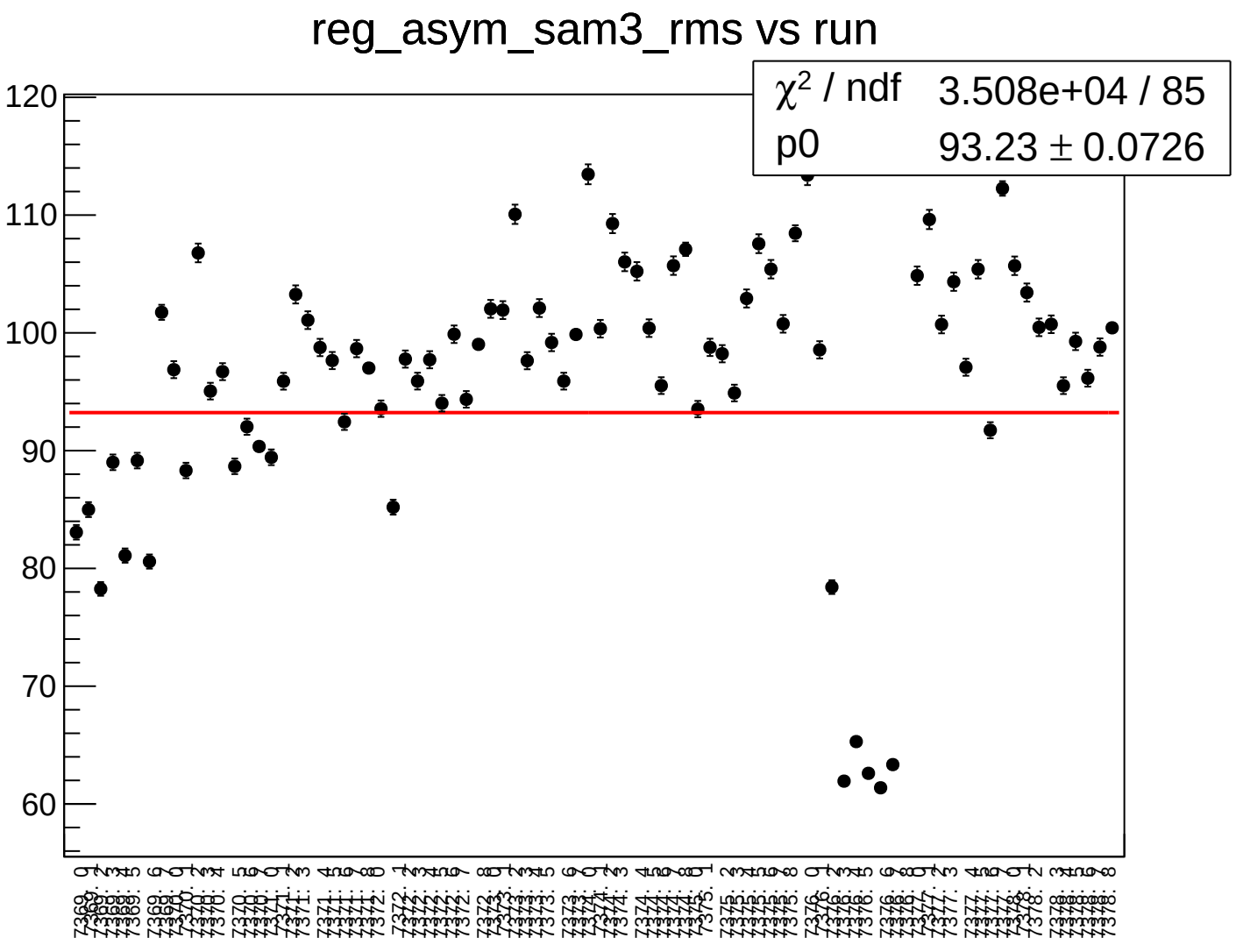

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.148e+04 / 85
p0 140.7 ± 0.1092
200
180
160
140
120
100

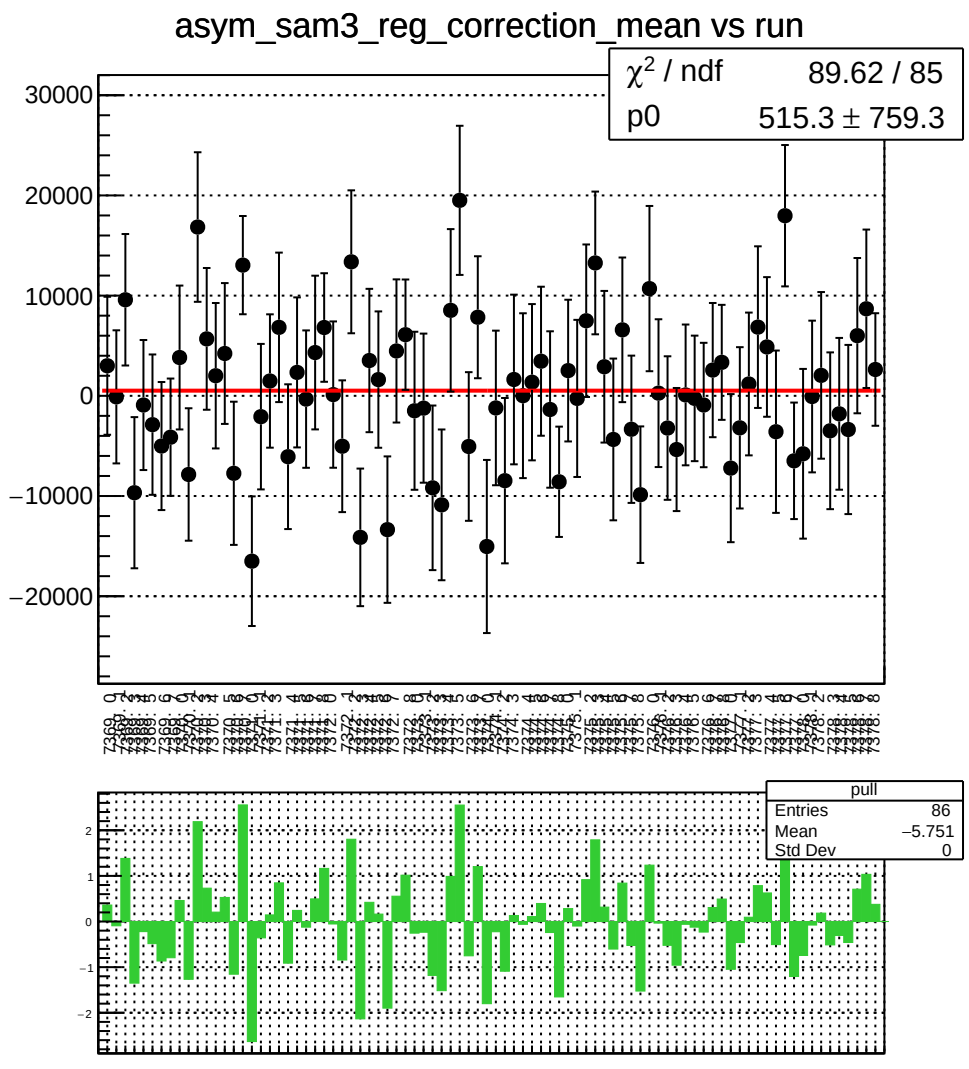

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.72 / 85
p0 −1.344e−14 ± 2.264e−14
pull
Entries 86
Mean −78.35
Std Dev 0
pull1D
Entries 86
Mean −0.05715
Std Dev 0.9909

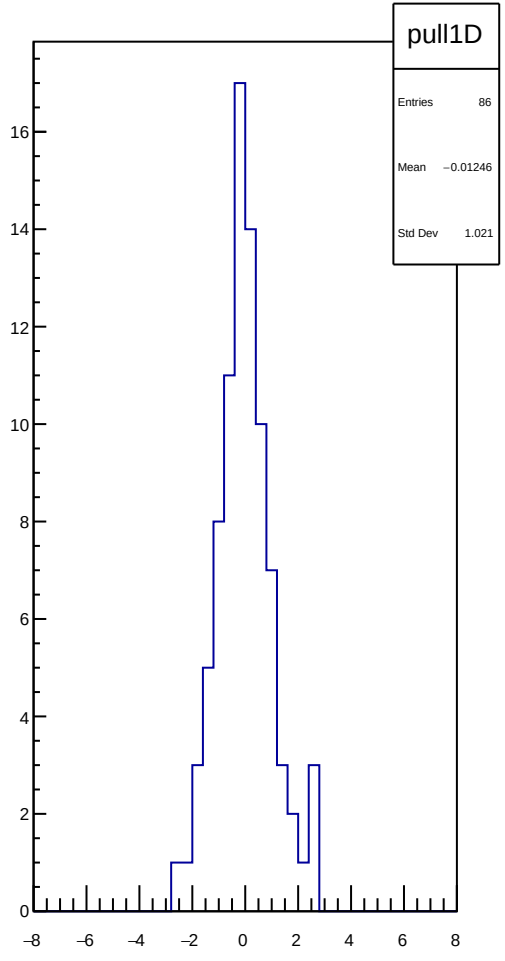

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.125e+05 / 85
p0 1.805e−11 ± 1.601e−14
0.12
0.1
0.08
0.06
0.04
0.02

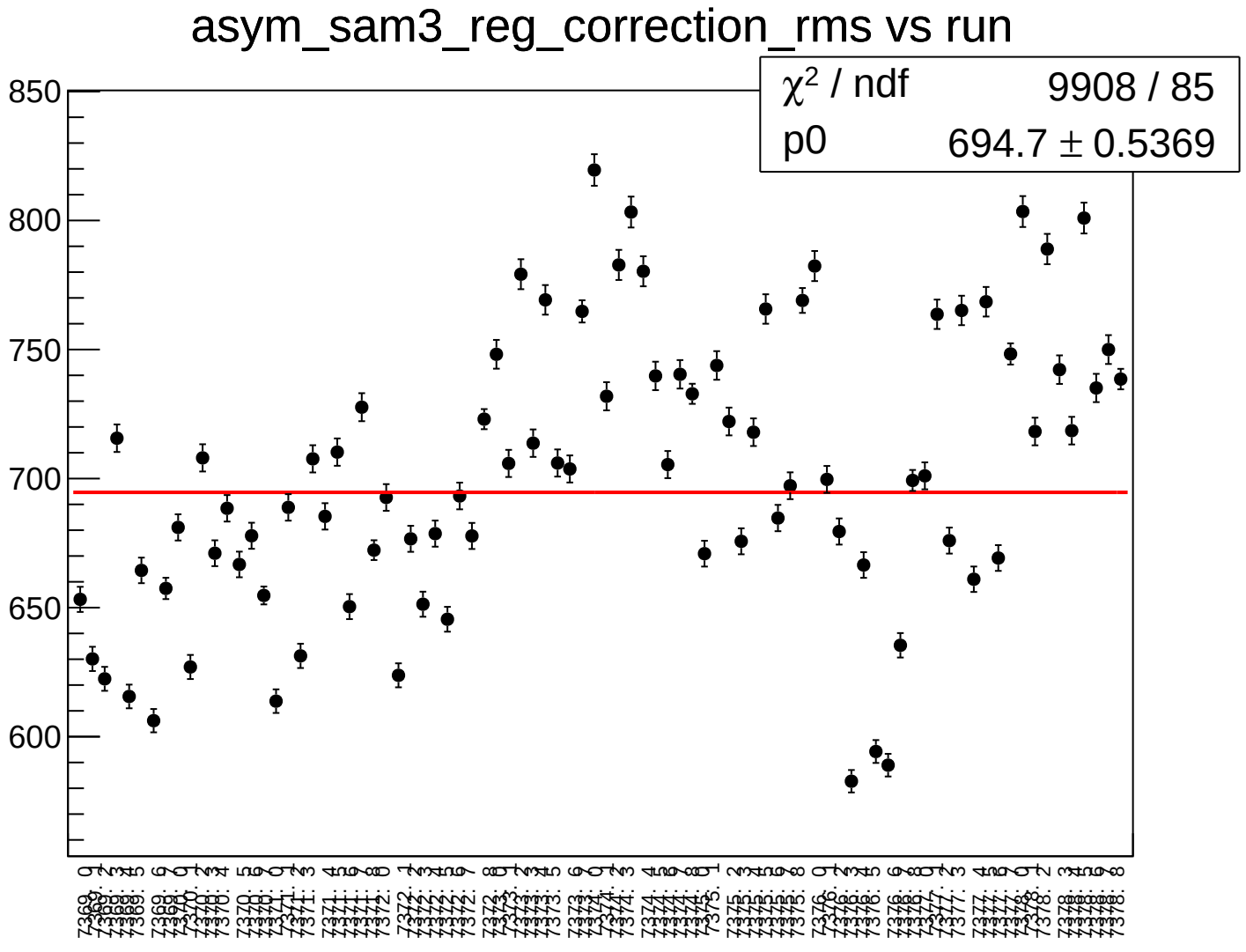

reg_asym_sam3_mean vs run
χ^2 / ndf 115.1 / 85
p0 205.4 ± 102.7
pull
Entries 86
Mean −2.777
Std Dev 0

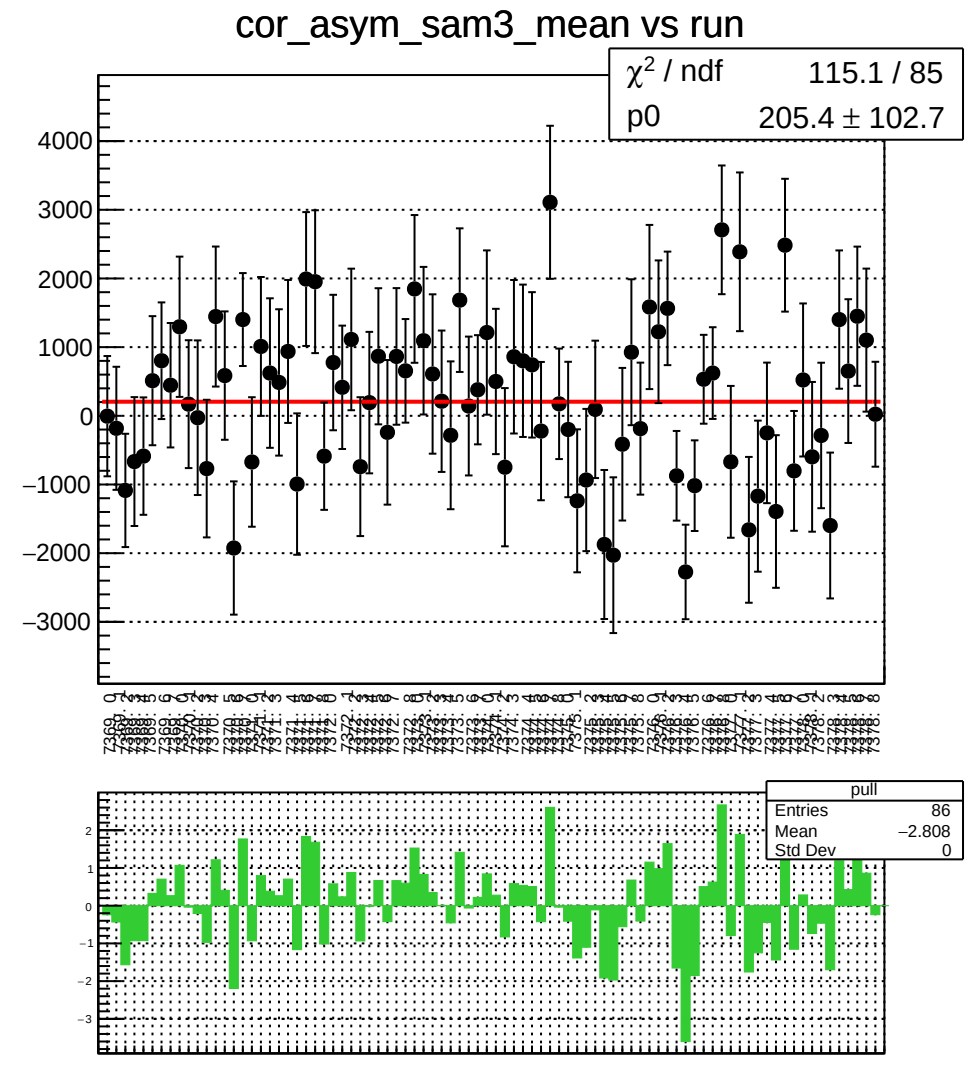

pull1D
Entries 86
Mean 0.02895
Std Dev 1.157

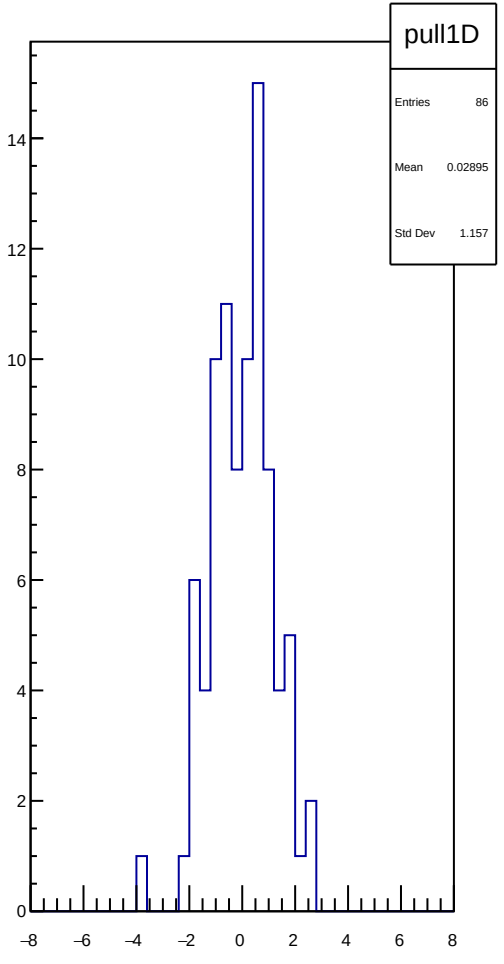

reg_asym_sam3_rms vs run
χ^2 / ndf 3.508e+04 / 85
p0 93.23 ± 0.0726
120
110
100
90
80
70
60

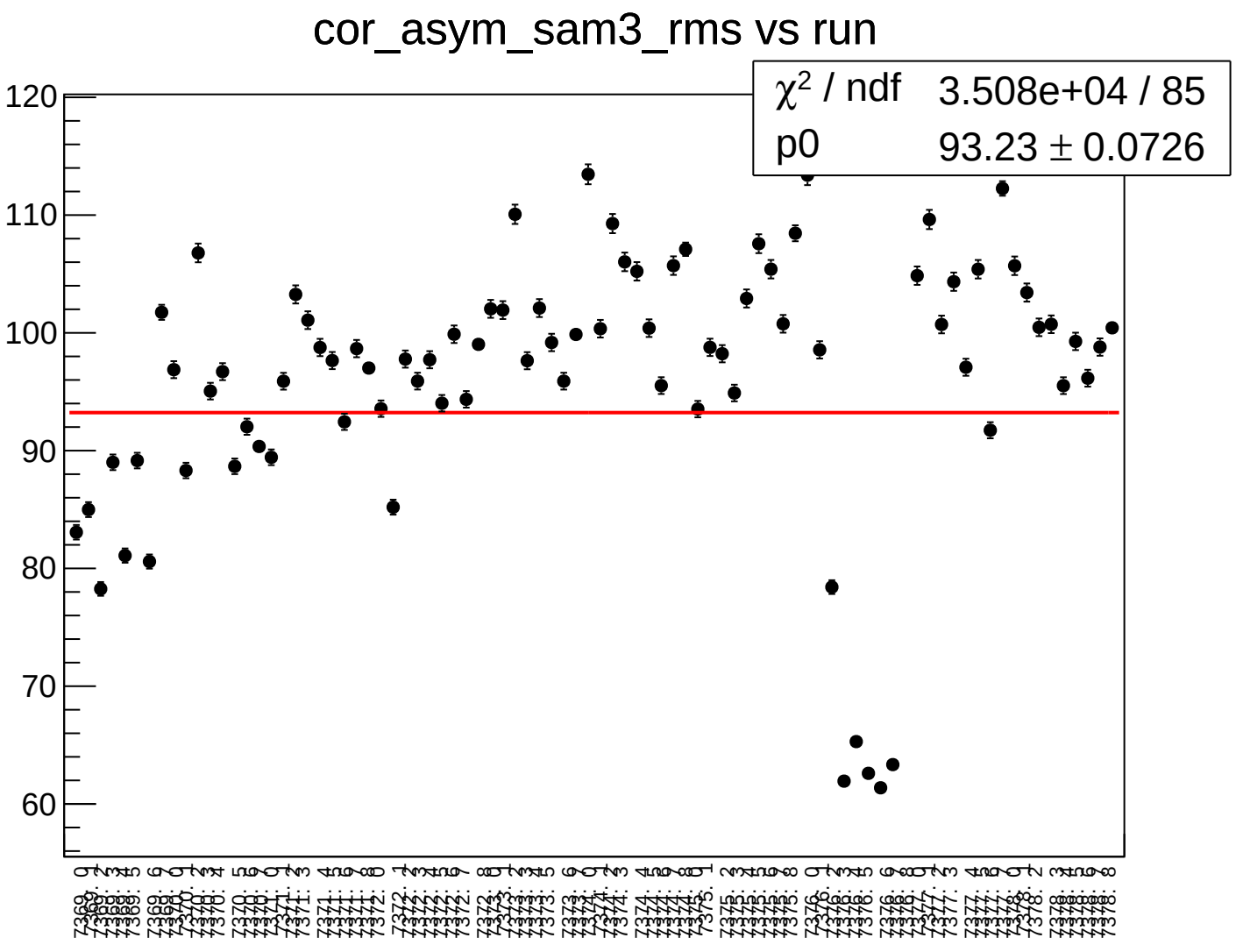

asym_sam3_reg_correction_mean vs run
χ² / ndf 89.62 / 85
p0 515.3 ± 759.3
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −5.751
Std Dev 0
2
1
0
−1
−2

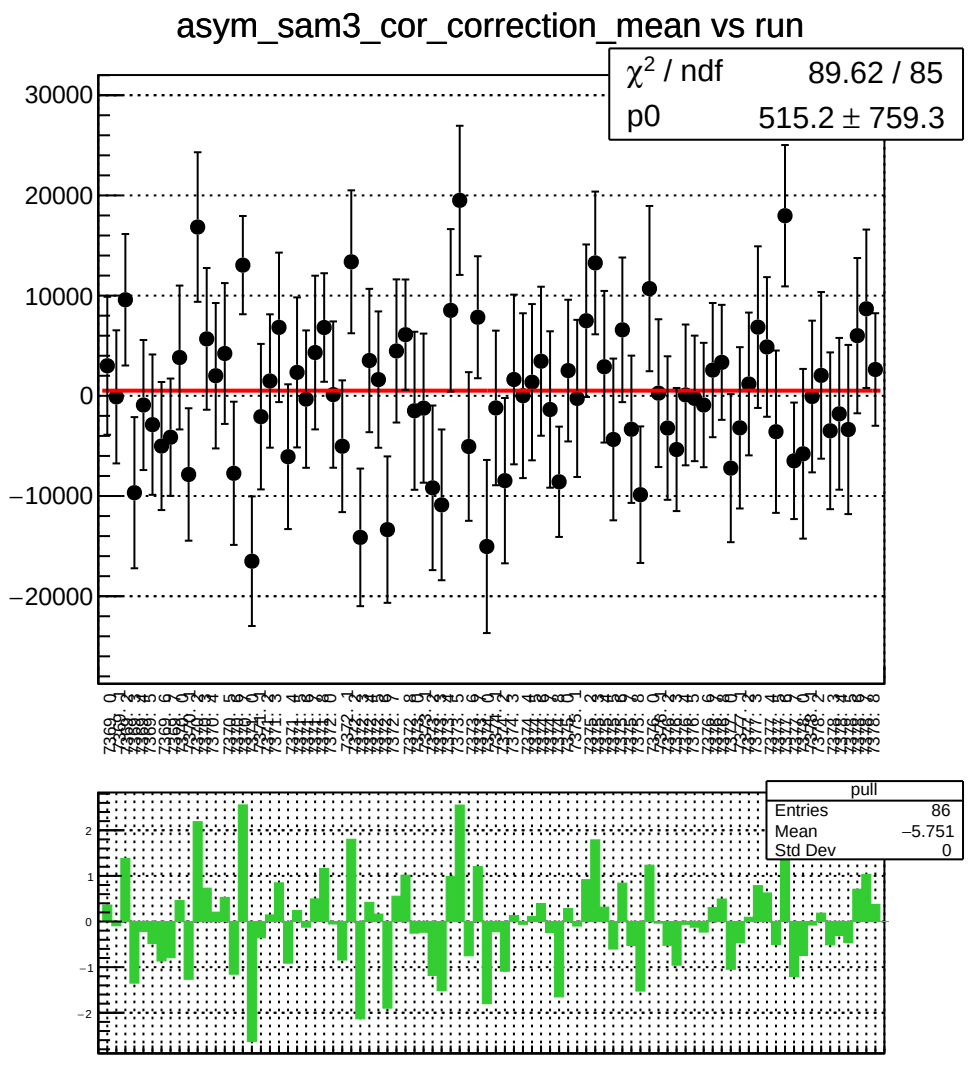

pull1D
Entries 86
Mean −0.01246
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

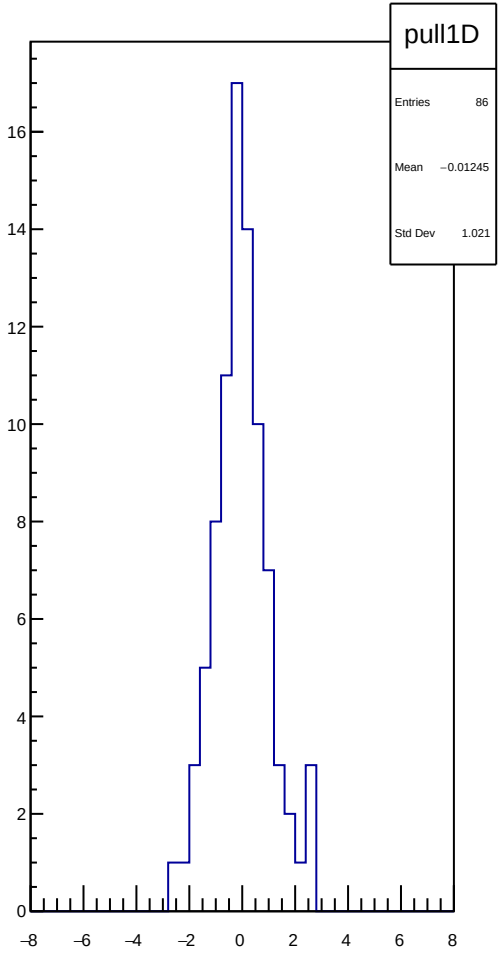

asym_sam3_reg_correction_rms vs run
χ² / ndf 9908 / 85
p0 694.7 ± 0.5369
850
800
750
700
650
600

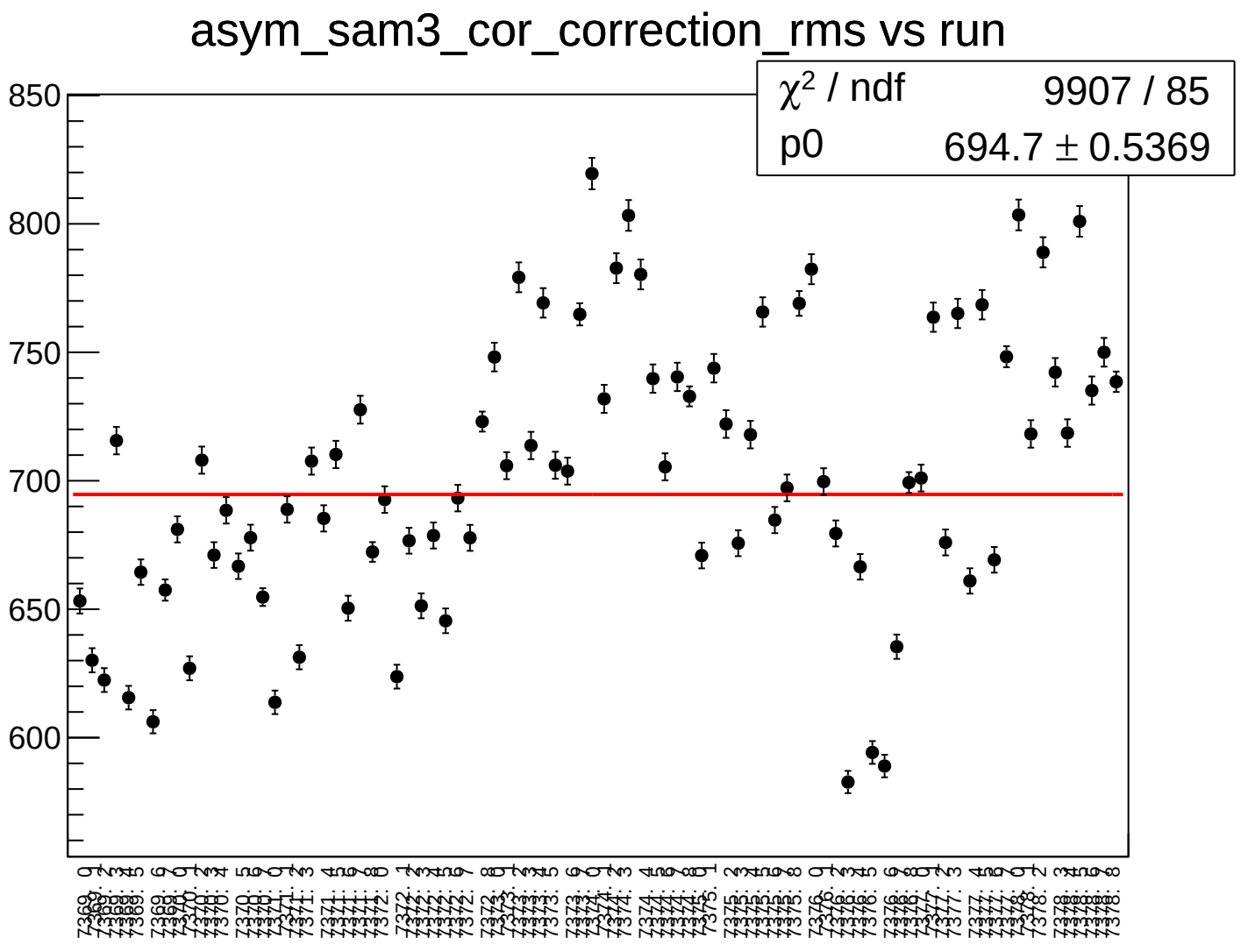

cor_asym_sam3_mean vs run
χ² / ndf 115.1 / 85
p0 205.4 ± 102.7
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −2.808
Std Dev 0
2
1
0
−1
−2
−3

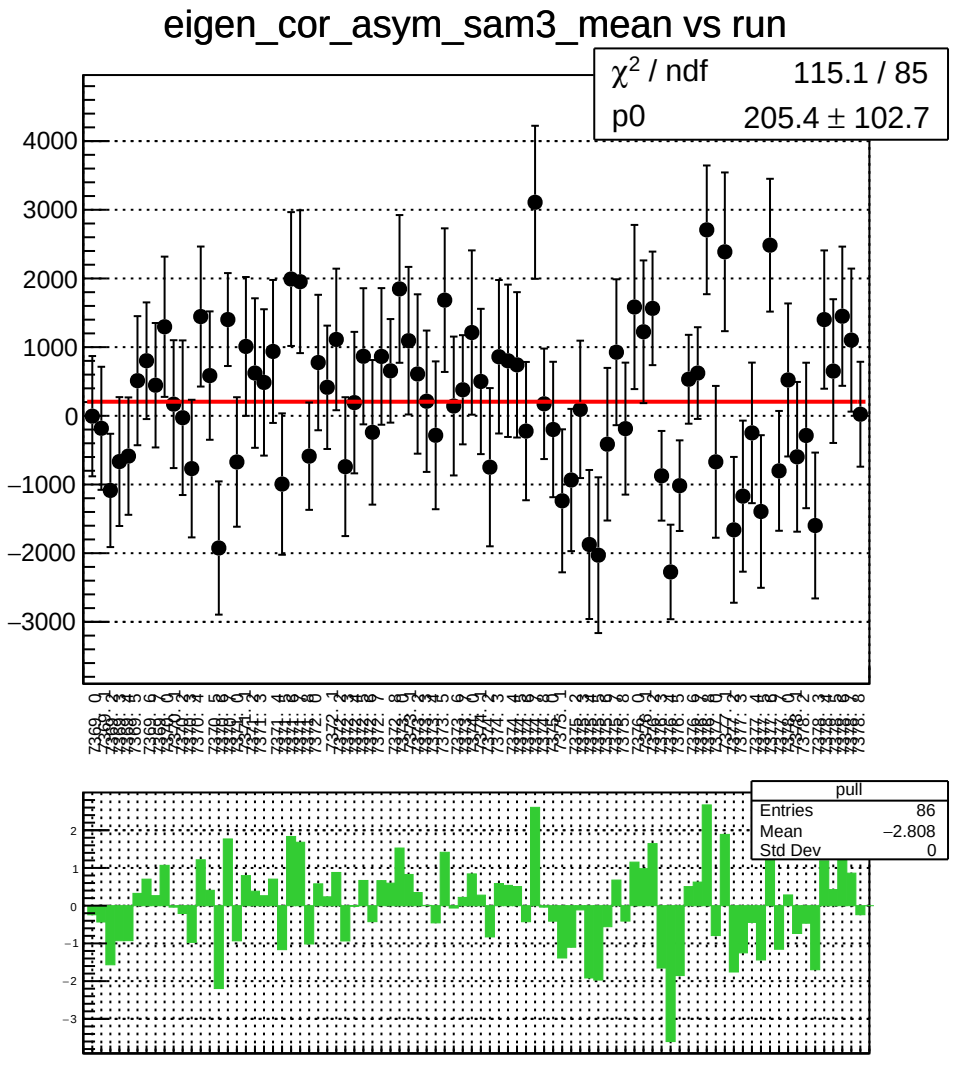

pull1D
Entries 86
Mean 0.02895
Std Dev 1.157
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

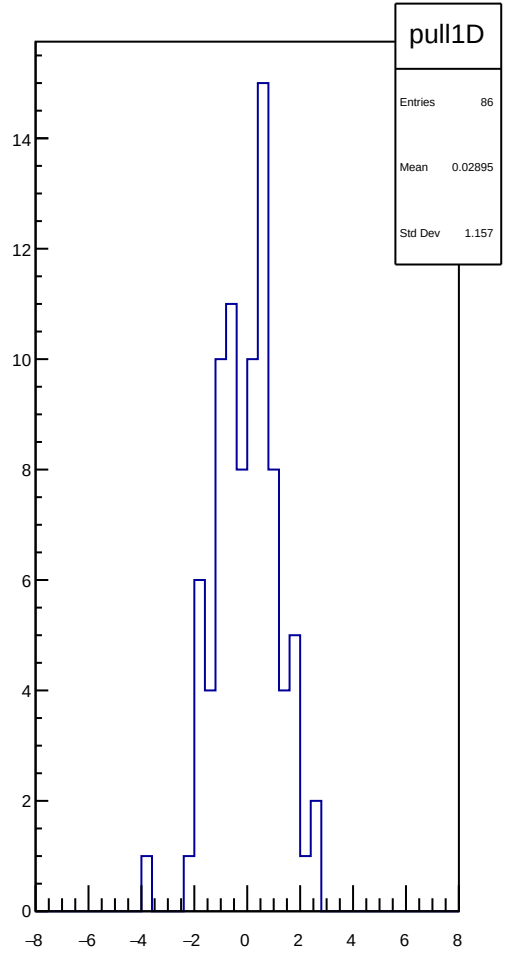

cor_asym_sam3_rms vs run
χ^2 / ndf 3.508e+04 / 85
p0 93.23 ± 0.0726
120
110
100
90
80
70
60

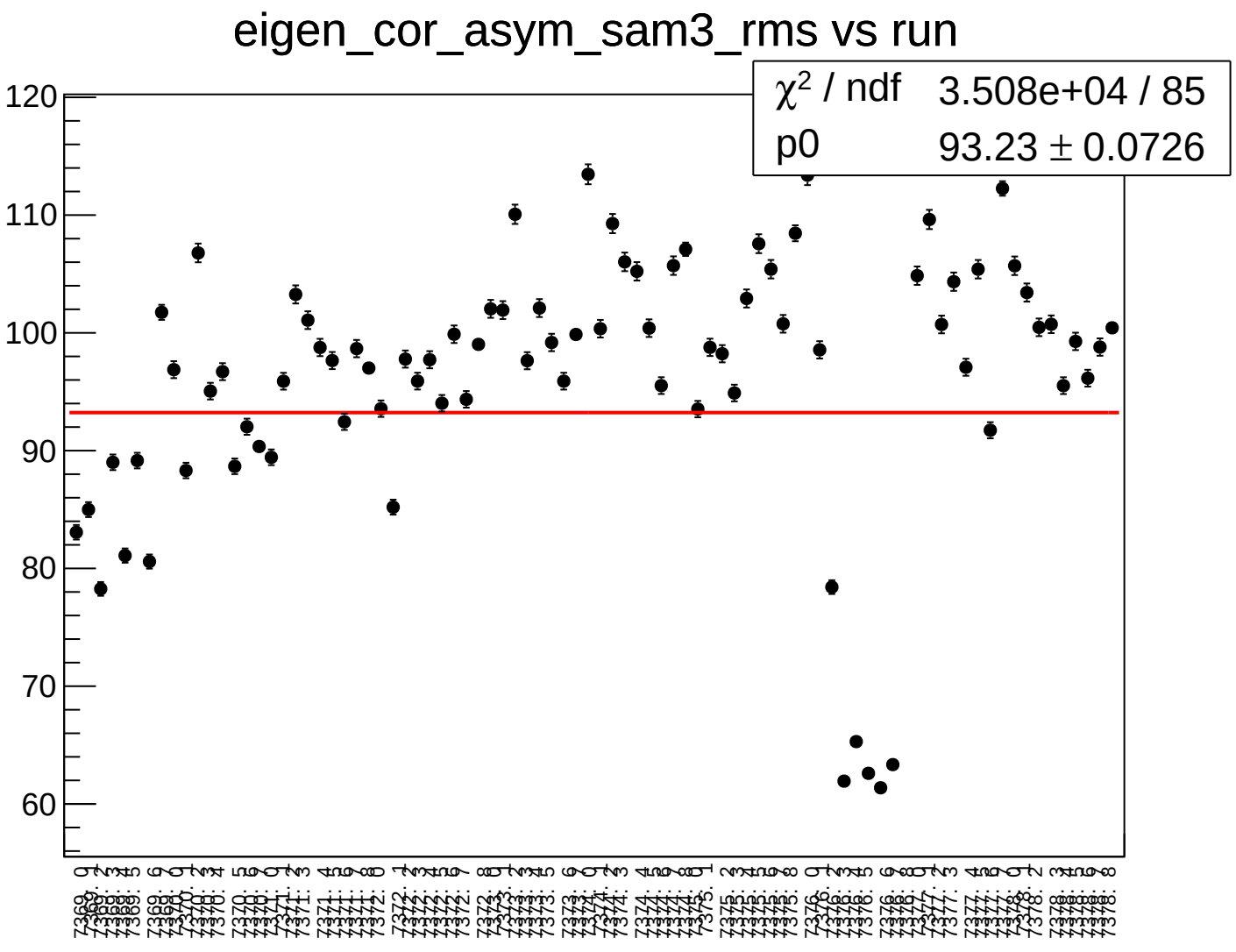

asym_sam3_cor_correction_mean vs run
χ² / ndf 89.62 / 85
p0 515.2 ± 759.3
pull
Entries 86
Mean −5.751
Std Dev 0

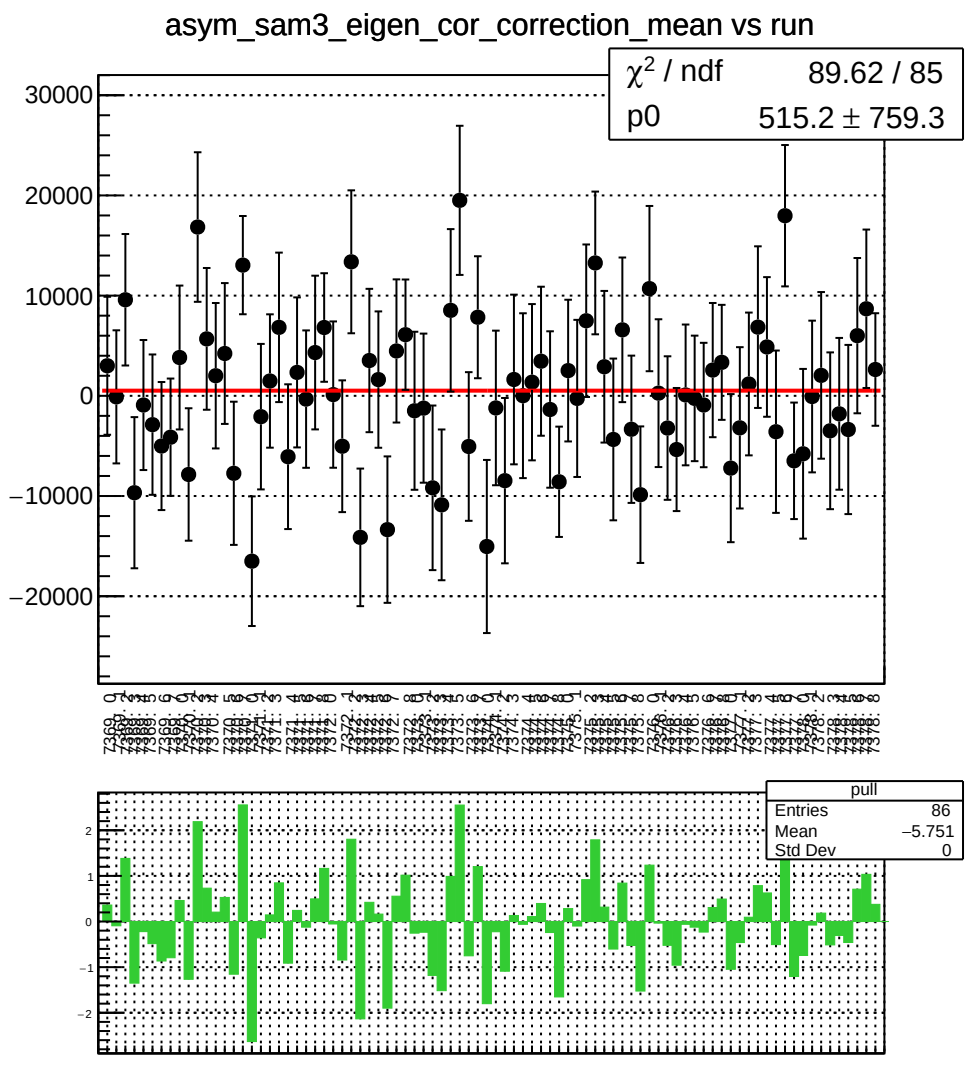

pull1D
Entries 86
Mean −0.01245
Std Dev 1.021

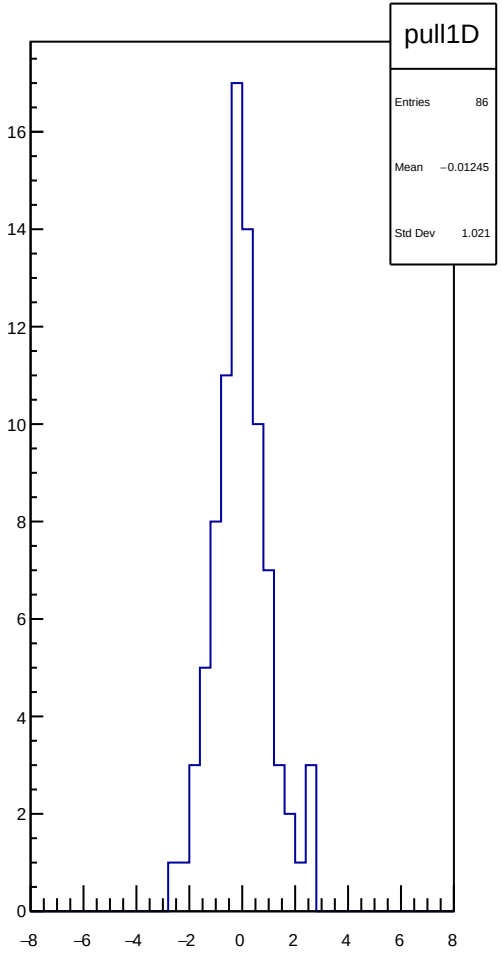

asym_sam3_cor_correction_rms vs run
χ² / ndf 9907 / 85
p0 694.7 ± 0.5369
850
800
750
700
650
600

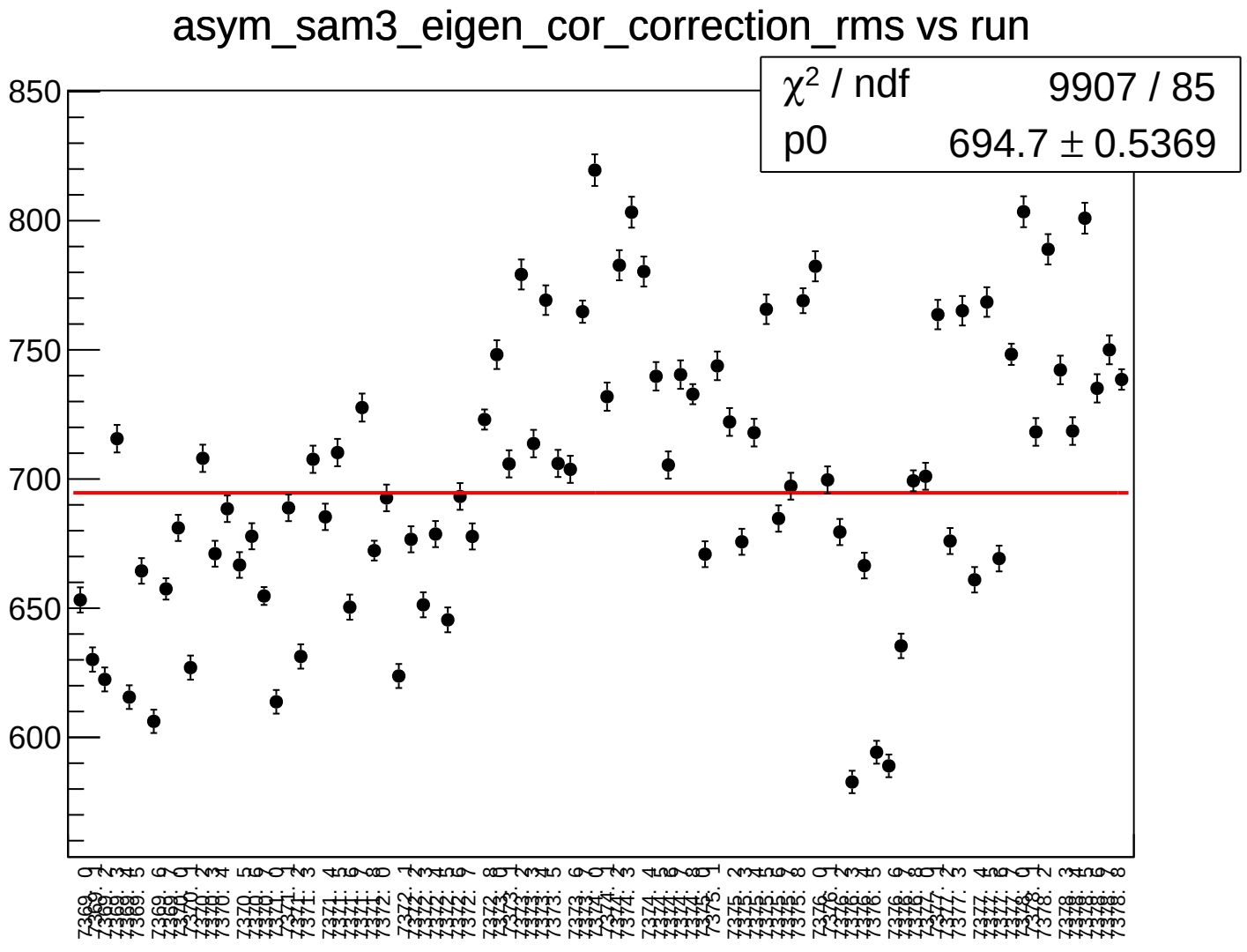

eigen_cor_asym_sam3_mean vs run
χ^2 / ndf 115.1 / 85
p0 205.4 ± 102.7
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −2.808
Std Dev 0
2
1
0
−1
−2
−3

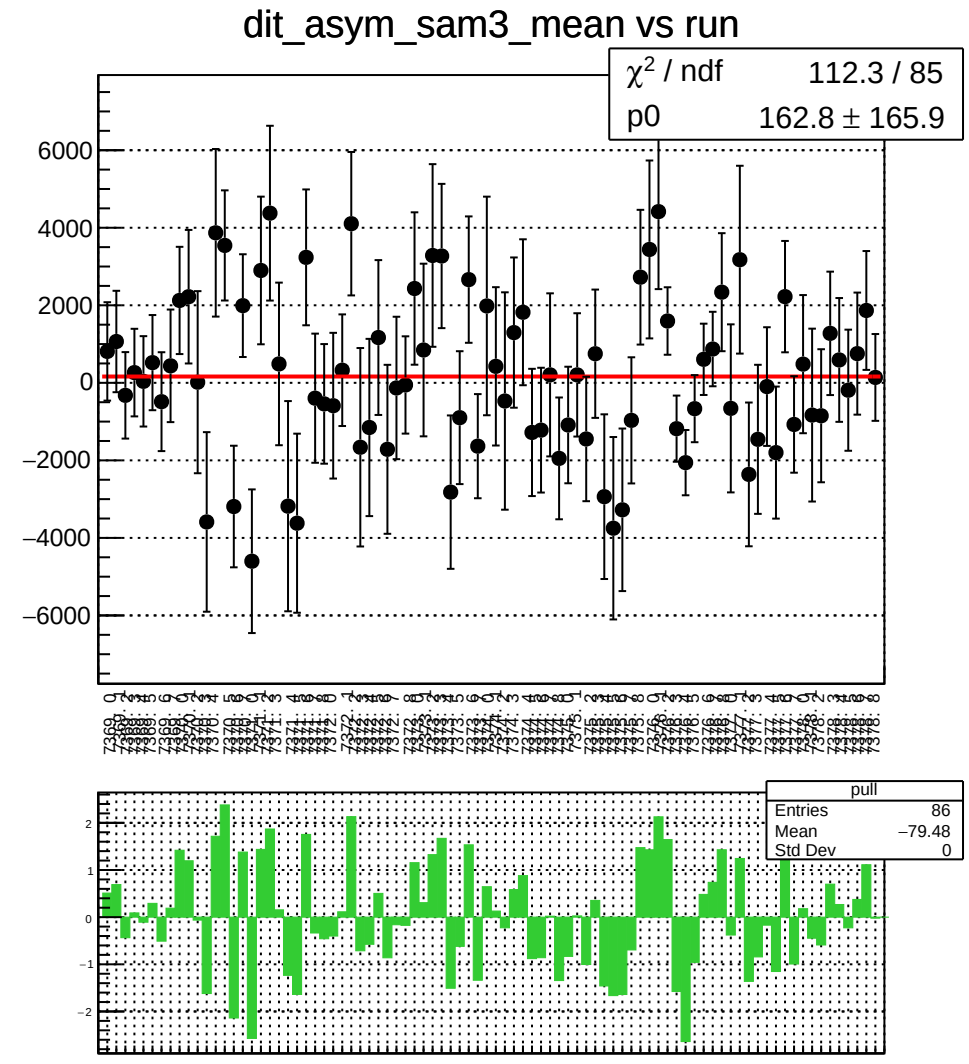

pull1D
Entries 86
Mean 0.02895
Std Dev 1.157
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

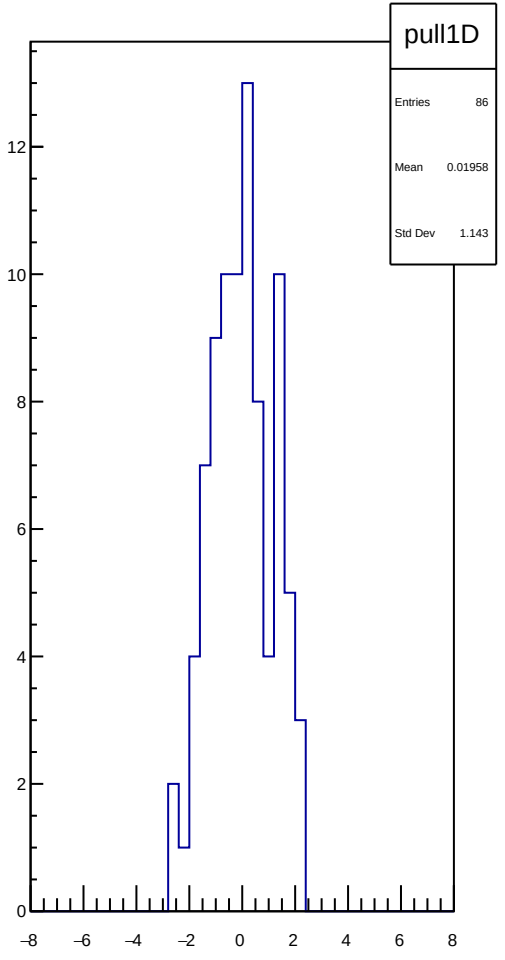

eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 3.508e+04 / 85
p0 93.23 ± 0.0726
120
110
100
90
80
70
60

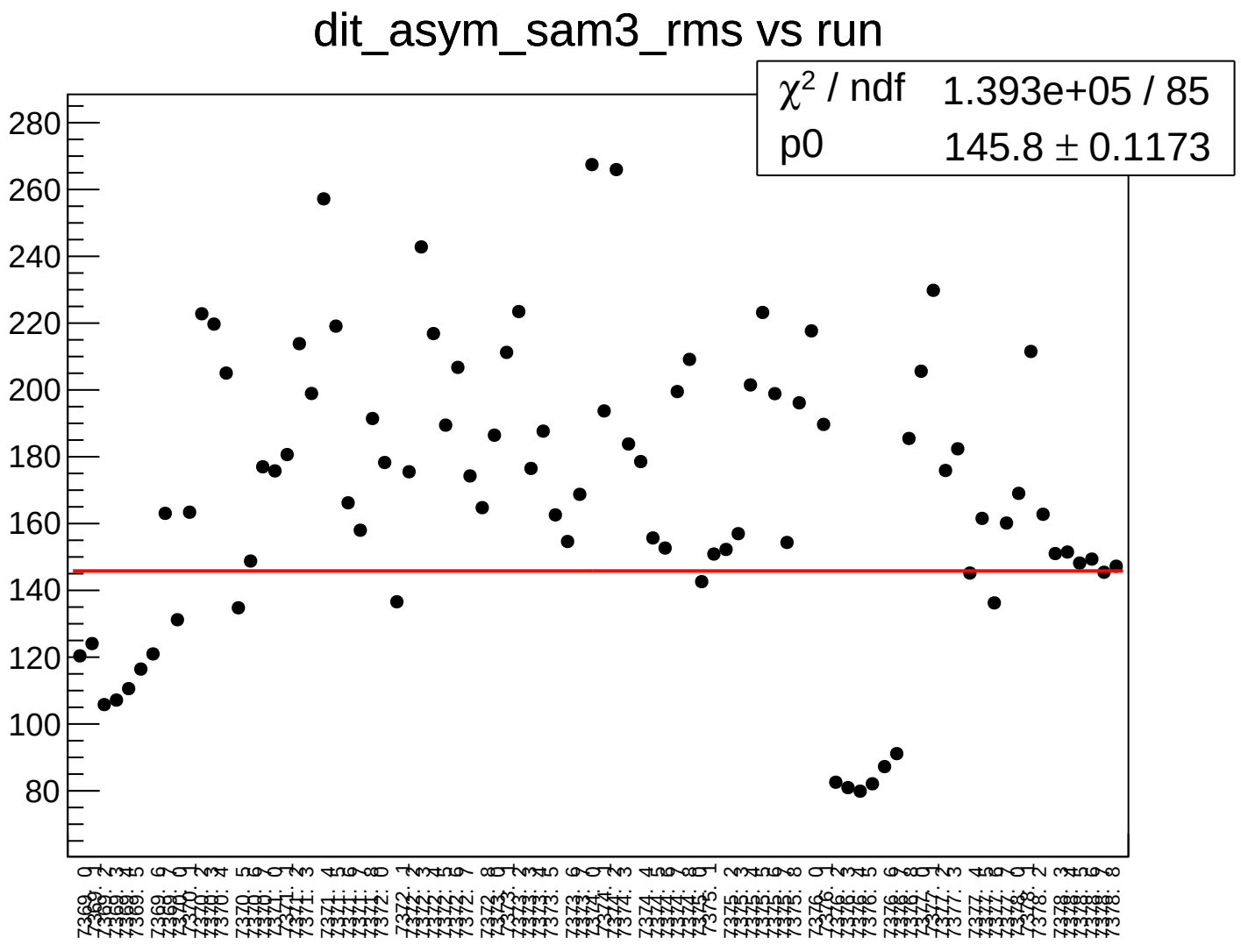

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 89.62 / 85
p0 515.2 ± 759.3
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −5.751
Std Dev 0
2
1
0
−1
−2

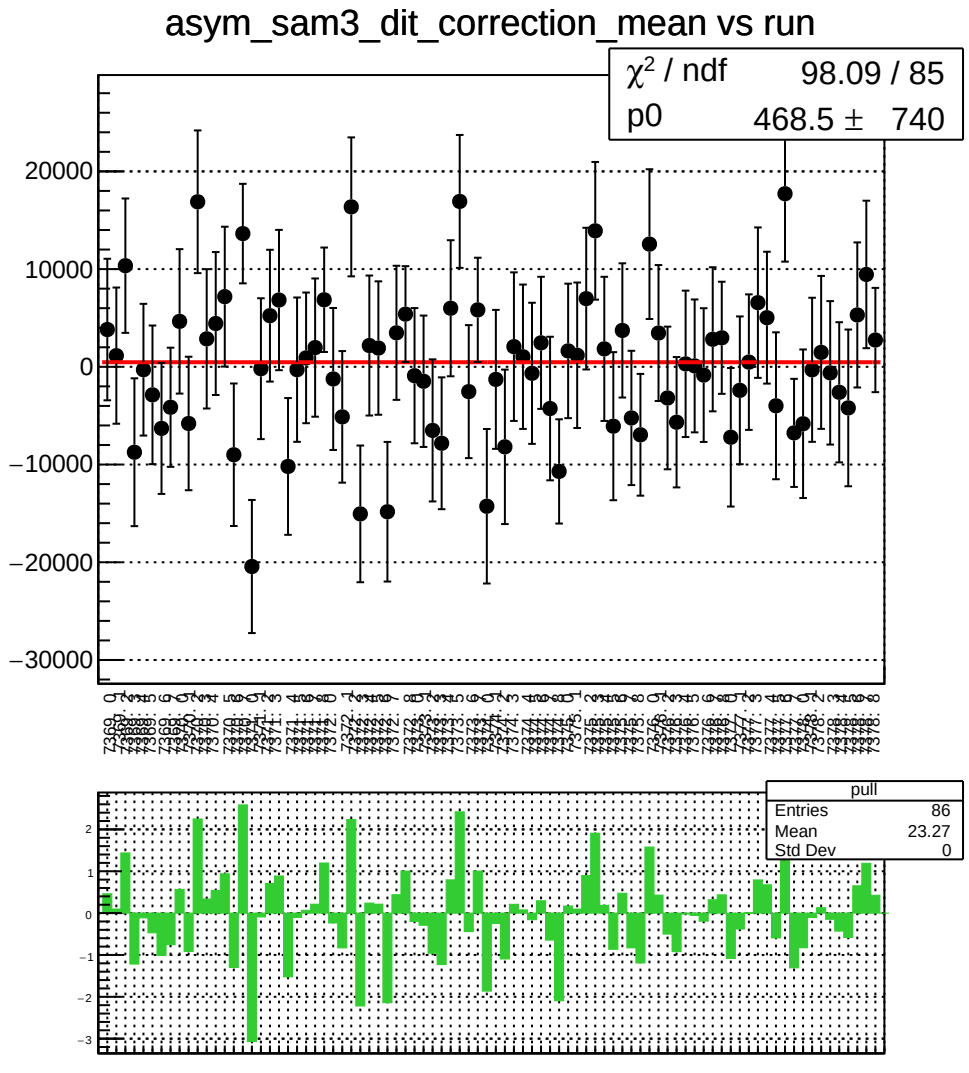

pull1D
Entries 86
Mean −0.01245
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

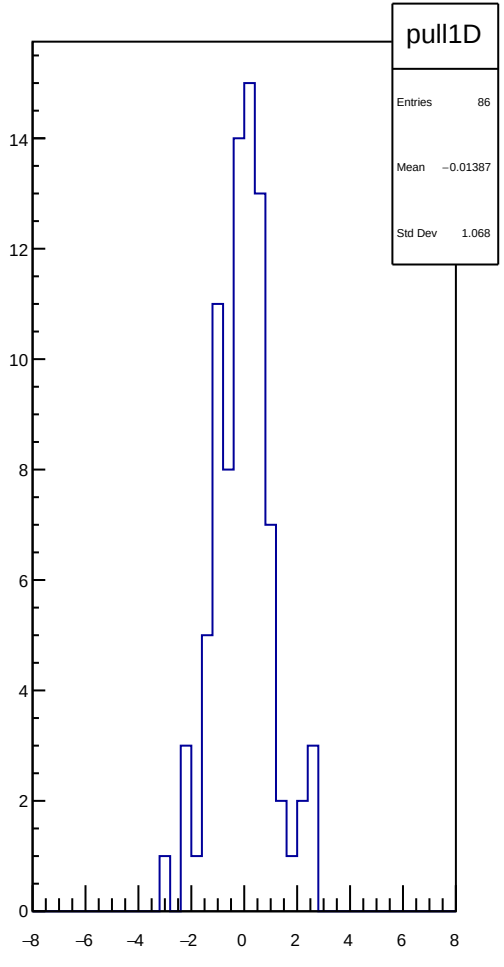

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 9907 / 85
p0 694.7 ± 0.5369
850
800
750
700
650
600

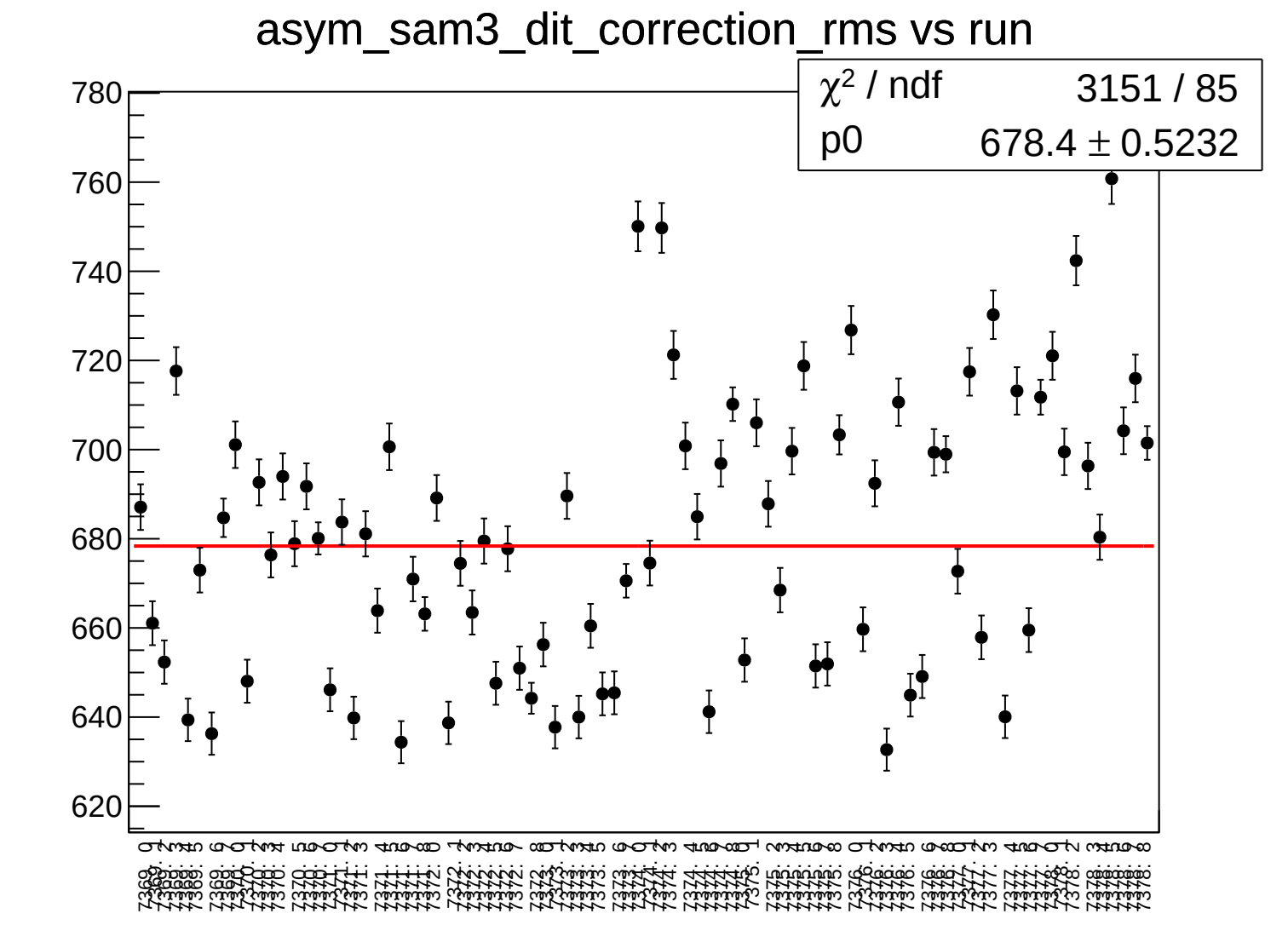

dit_asym_sam3_mean vs run
χ² / ndf 112.3 / 85
p0 162.8 ± 165.9
pull
Entries 86
Mean −79.48
Std Dev 0

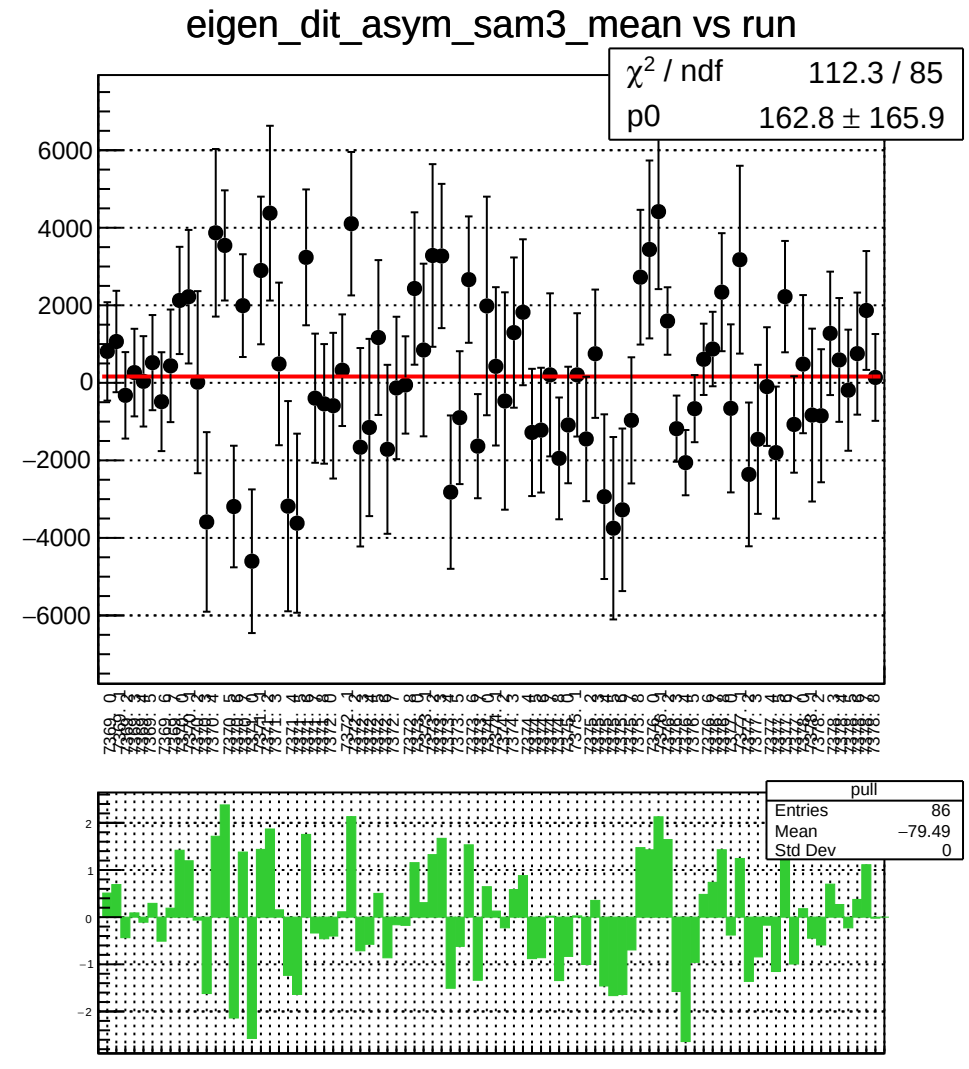

pull1D
Entries 86
Mean 0.01958
Std Dev 1.143

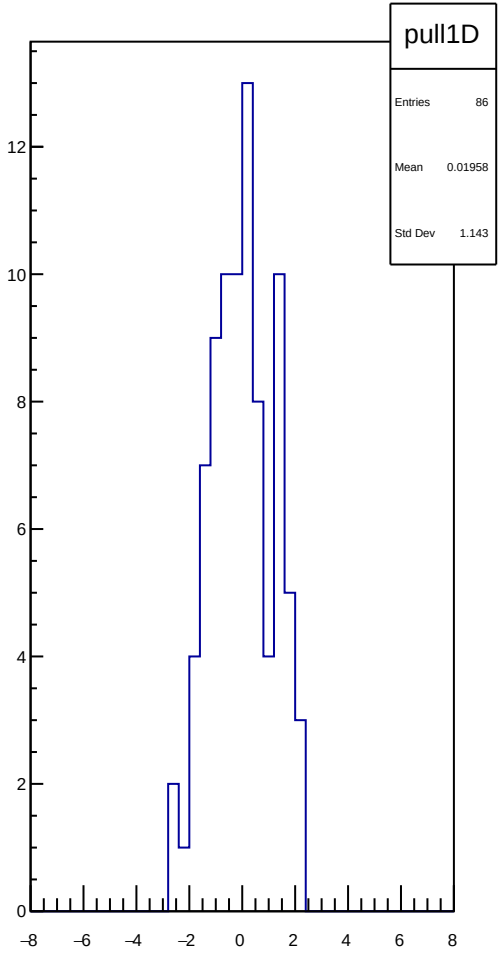

dit_asym_sam3_rms vs run
χ² / ndf 1.393e+05 / 85
p0 145.8 ± 0.1173
280
260
240
220
200
180
160
140
120
100
80

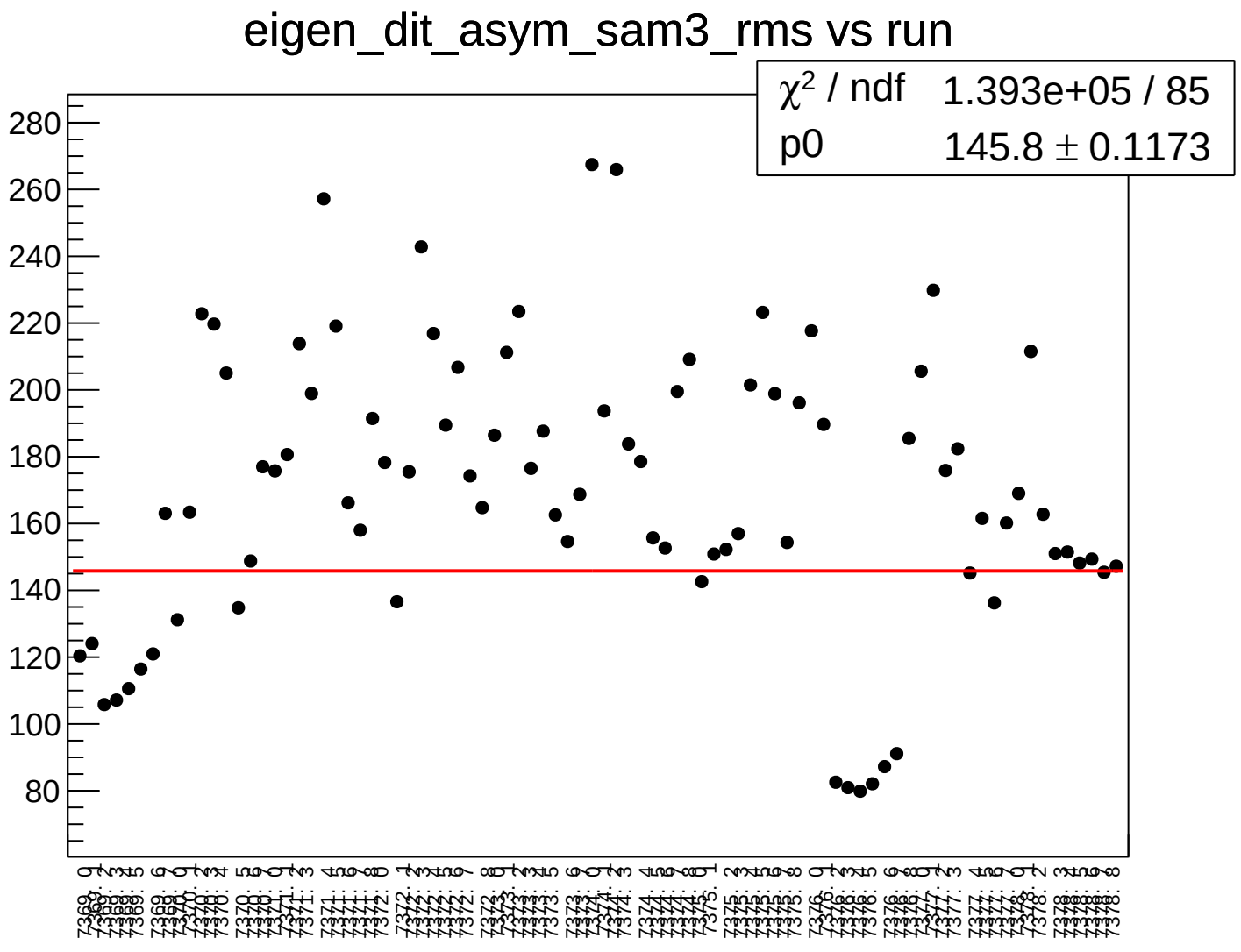

asym_sam3_dit_correction_mean vs run
χ² / ndf 98.09 / 85
p0 468.5 ± 740
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 23.27
Std Dev 0
2
1
0
−1
−2
−3

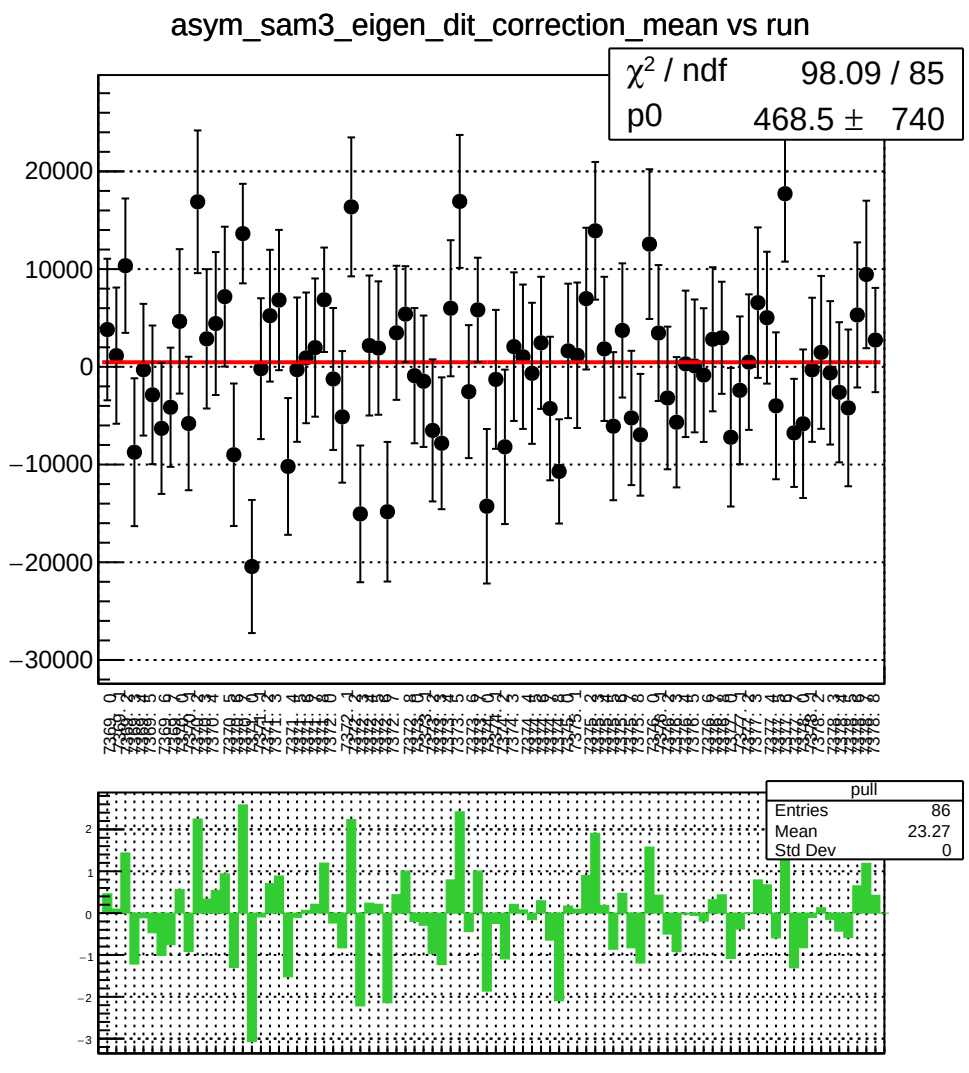

pull1D
Entries 86
Mean −0.01387
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

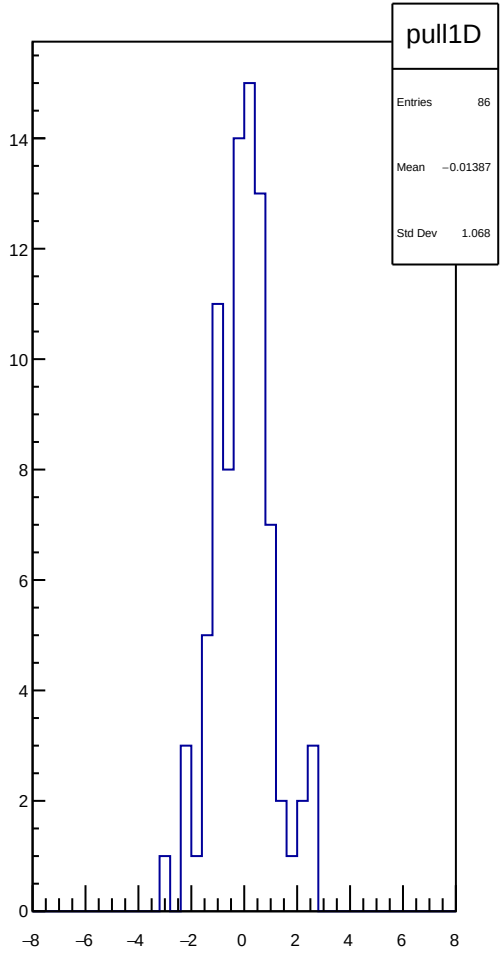

asym_sam3_dit_correction_rms vs run
χ² / ndf 3151 / 85
p0 678.4 ± 0.5232
780
760
740
720
700
680
660
640
620

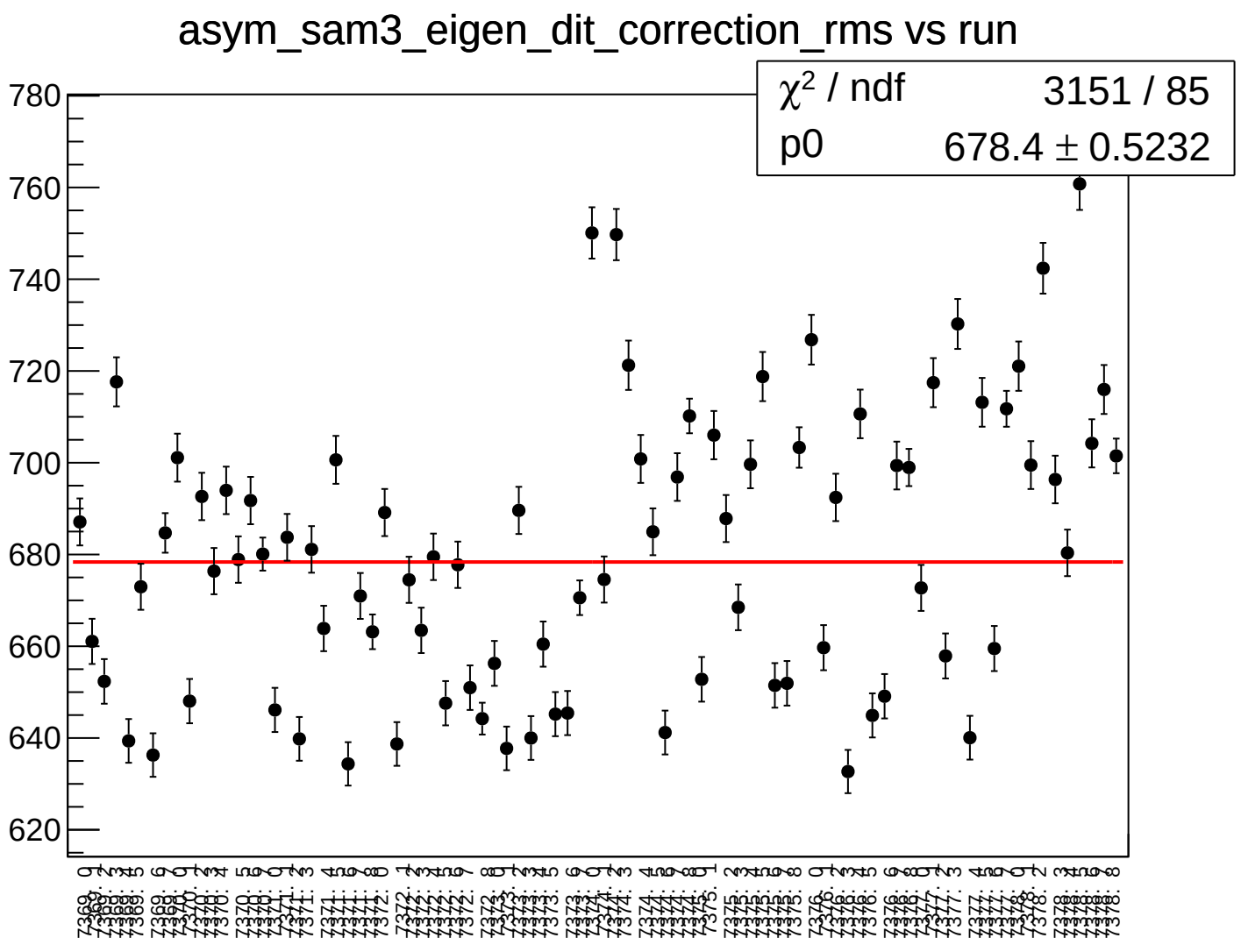

eigen_dit_asym_sam3_mean vs run
χ² / ndf 112.3 / 85
p0 162.8 ± 165.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −79.49
Std Dev 0
2
1
0
−1
−2

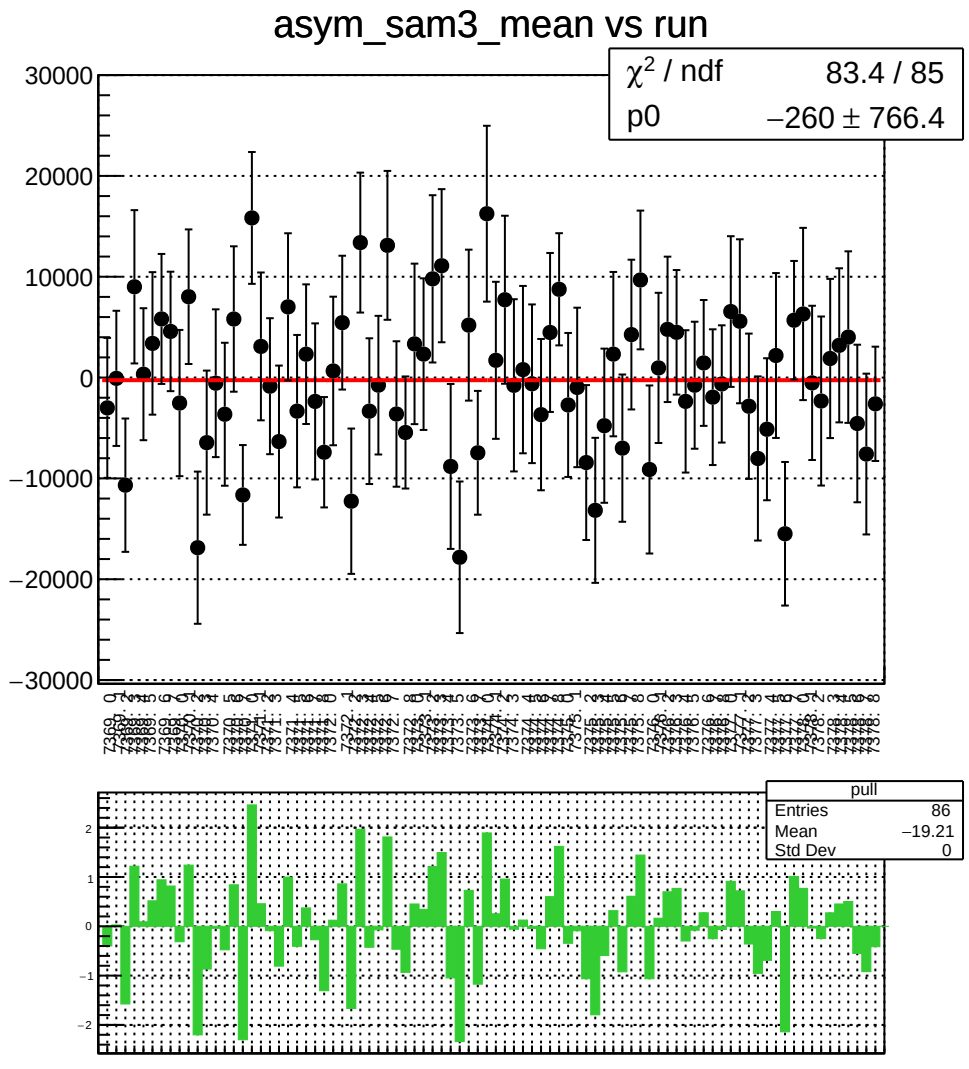

pull1D
Entries 86
Mean 0.01958
Std Dev 1.143
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

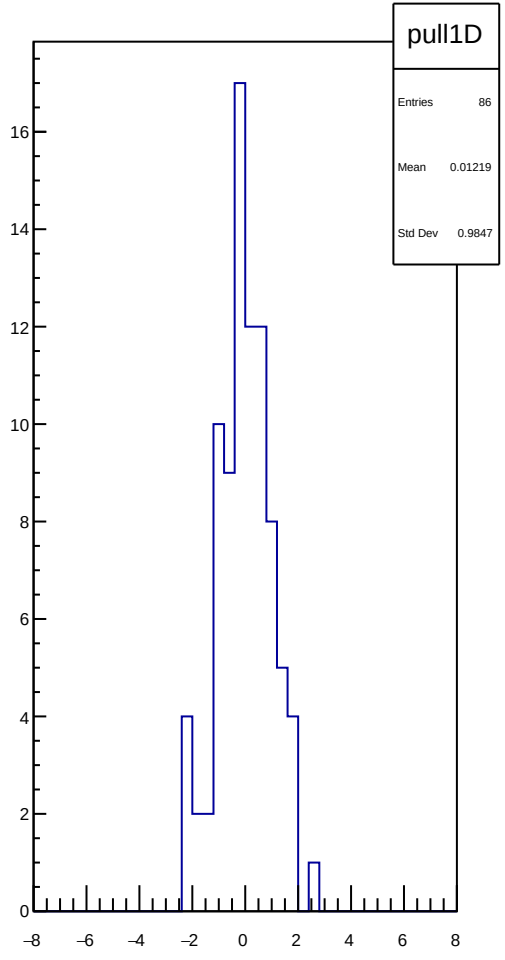

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.393e+05 / 85
p0 145.8 ± 0.1173
280
260
240
220
200
180
160
140
120
100
80

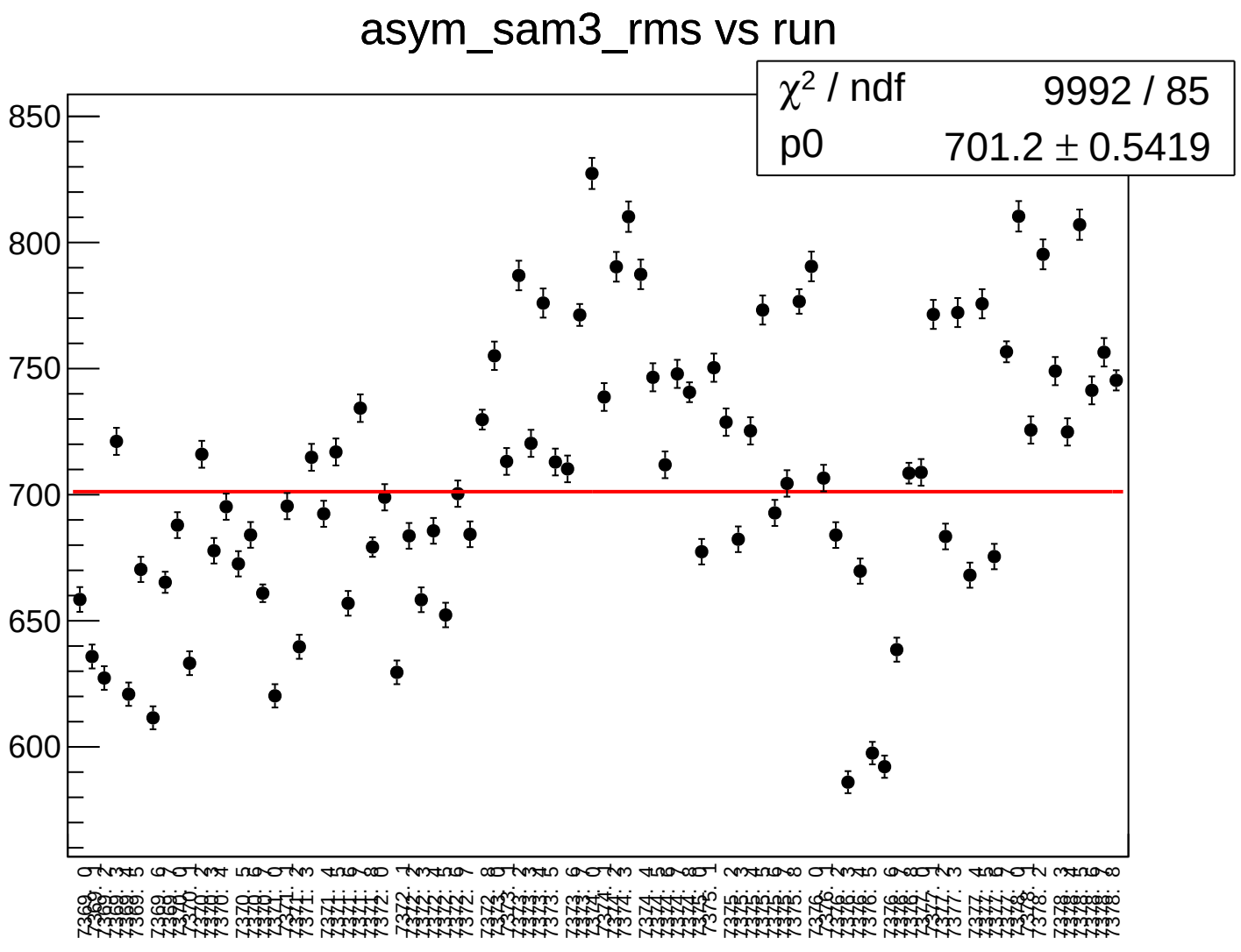

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 98.09 / 85
p0 468.5 ± 740
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 23.27
Std Dev 0
2
1
0
−1
−2
−3

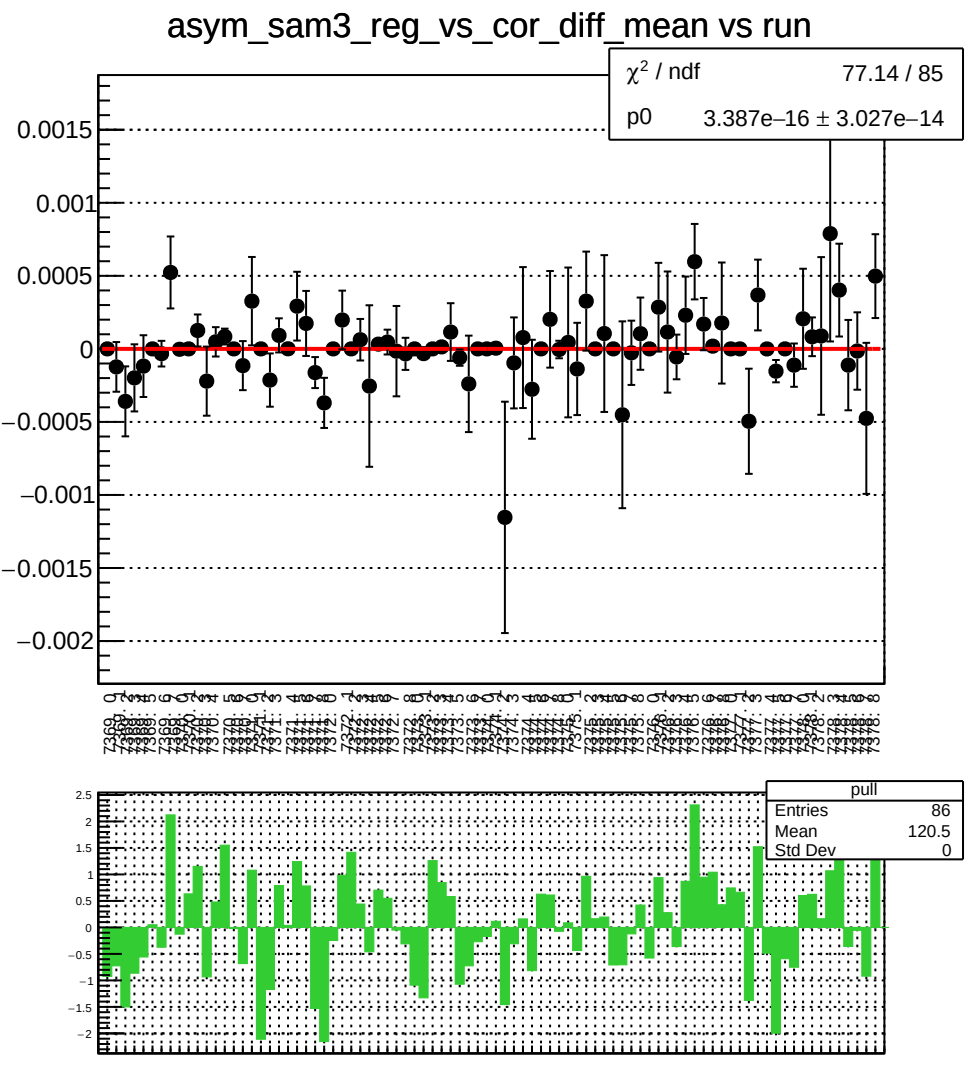

pull1D
Entries 86
Mean −0.01387
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

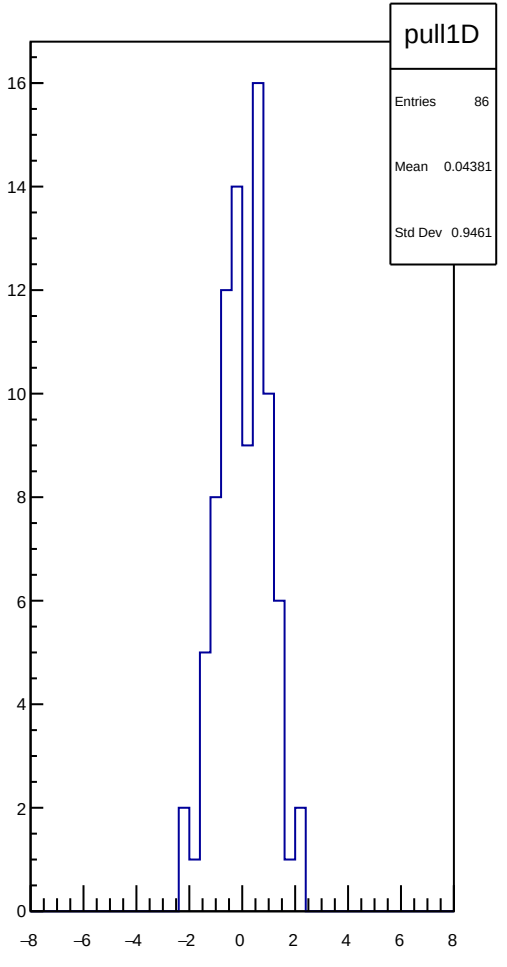

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 3151 / 85
p0 678.4 ± 0.5232
780
760
740
720
700
680
660
640
620

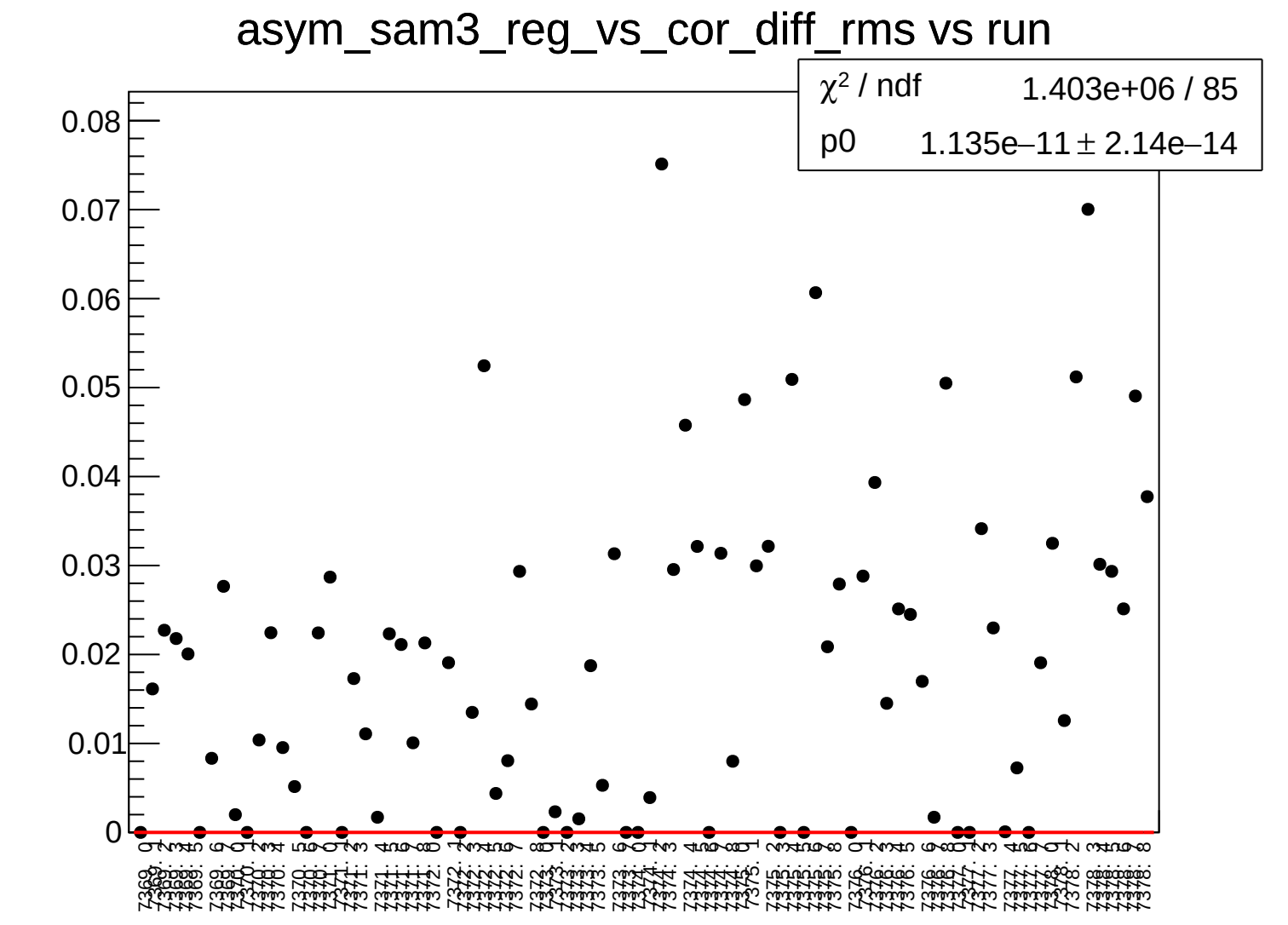

asym_sam3_mean vs run
χ² / ndf 83.4 / 85
p0 −260 ± 766.4
pull
Entries 86
Mean −19.21
Std Dev 0

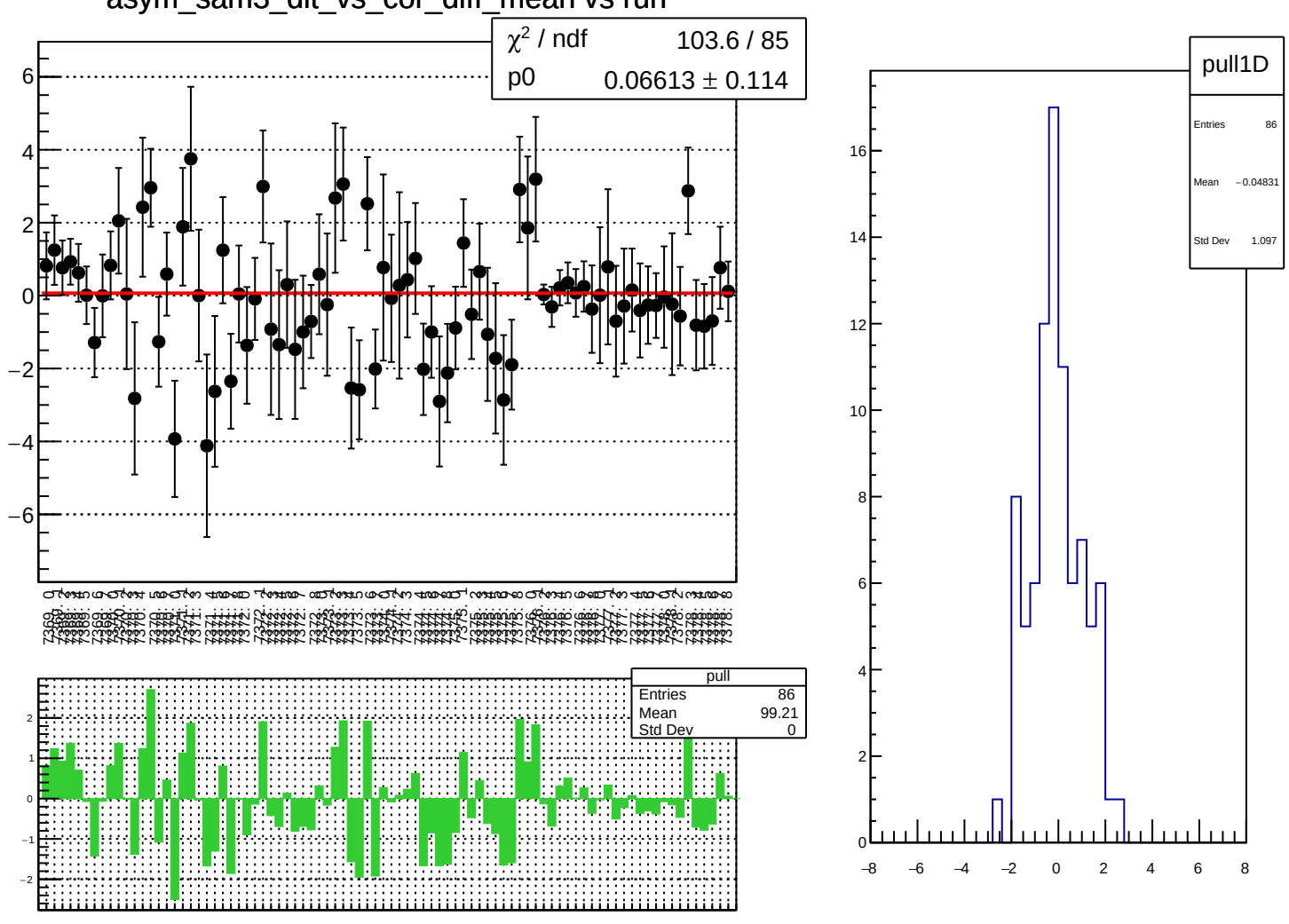

pull1D
Entries 86
Mean 0.01219
Std Dev 0.9847

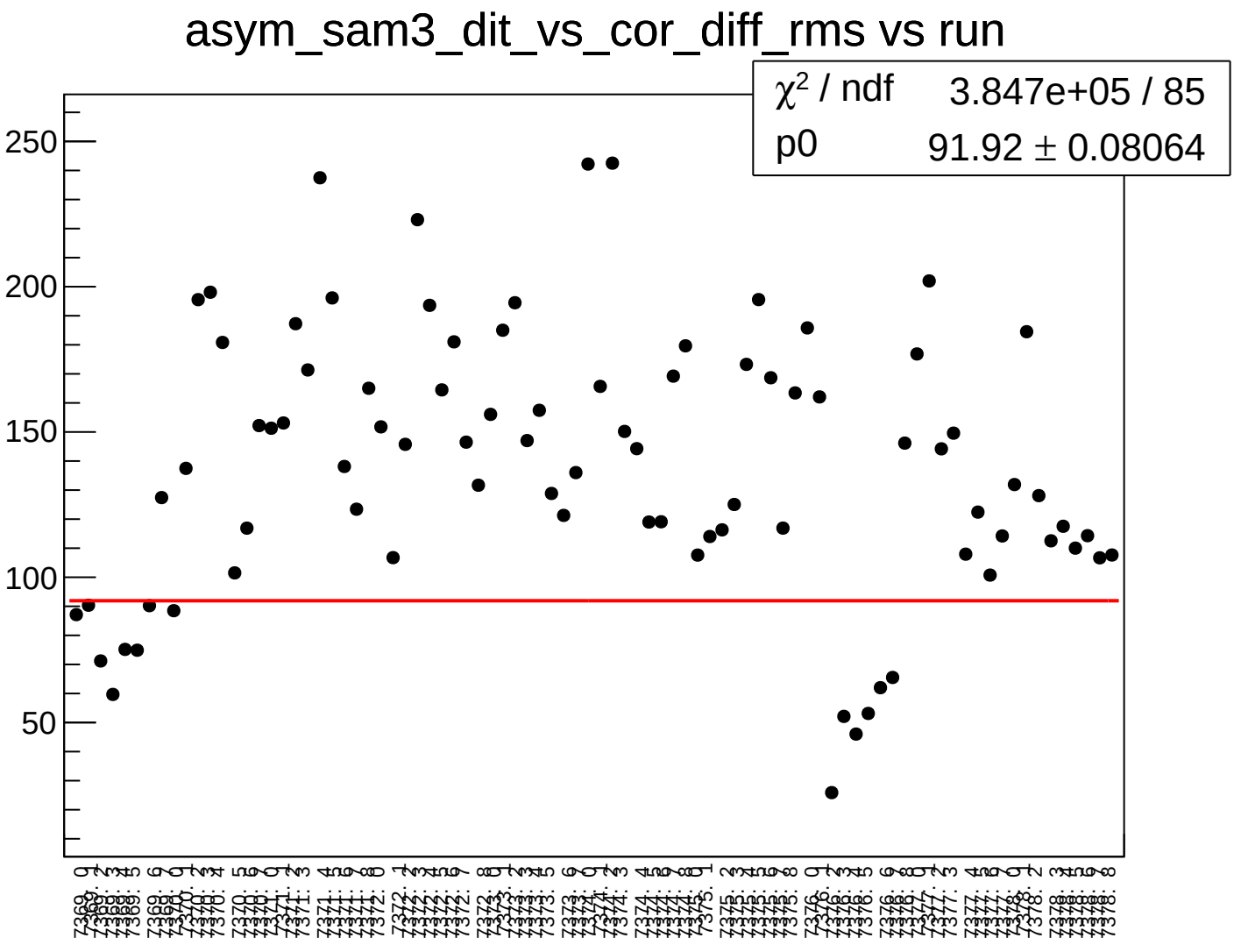

asym_sam3_rms vs run
χ² / ndf 9992 / 85
p0 701.2 ± 0.5419
850
800
750
700
650
600

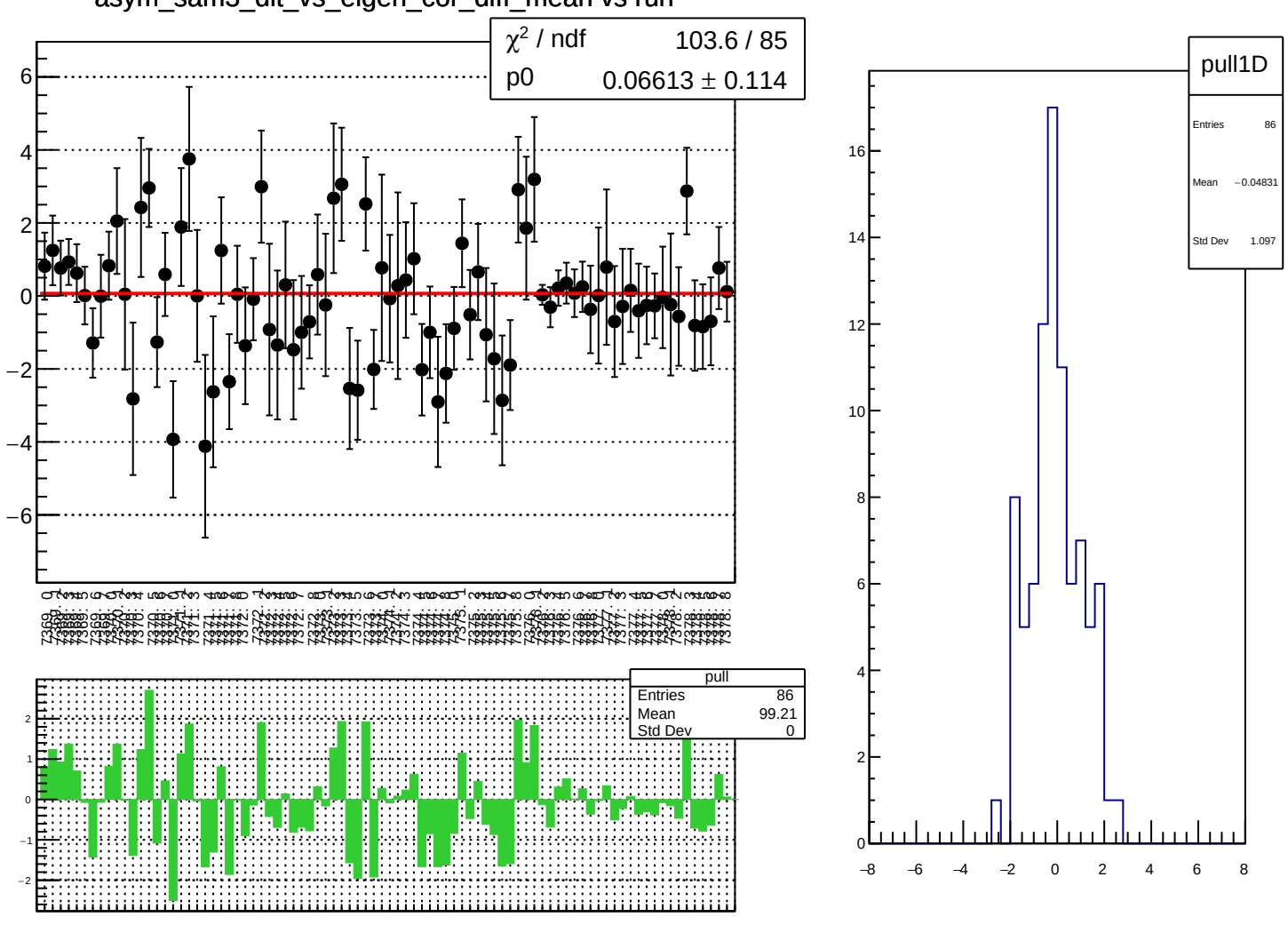

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 77.14 / 85
p0 3.387e−16 ± 3.027e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 86
Mean 120.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

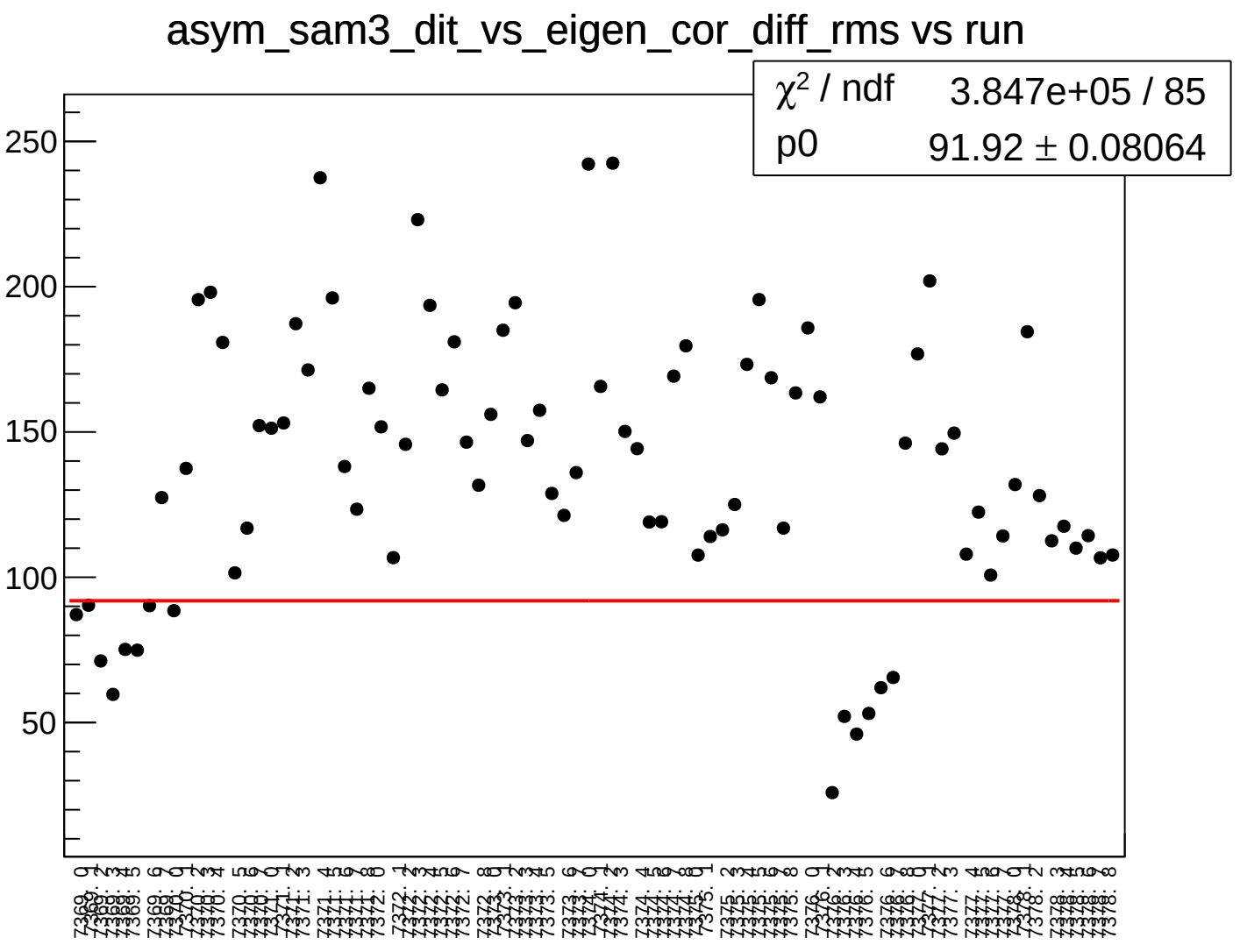

pull1D
Entries 86
Mean 0.04381
Std Dev 0.9461
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

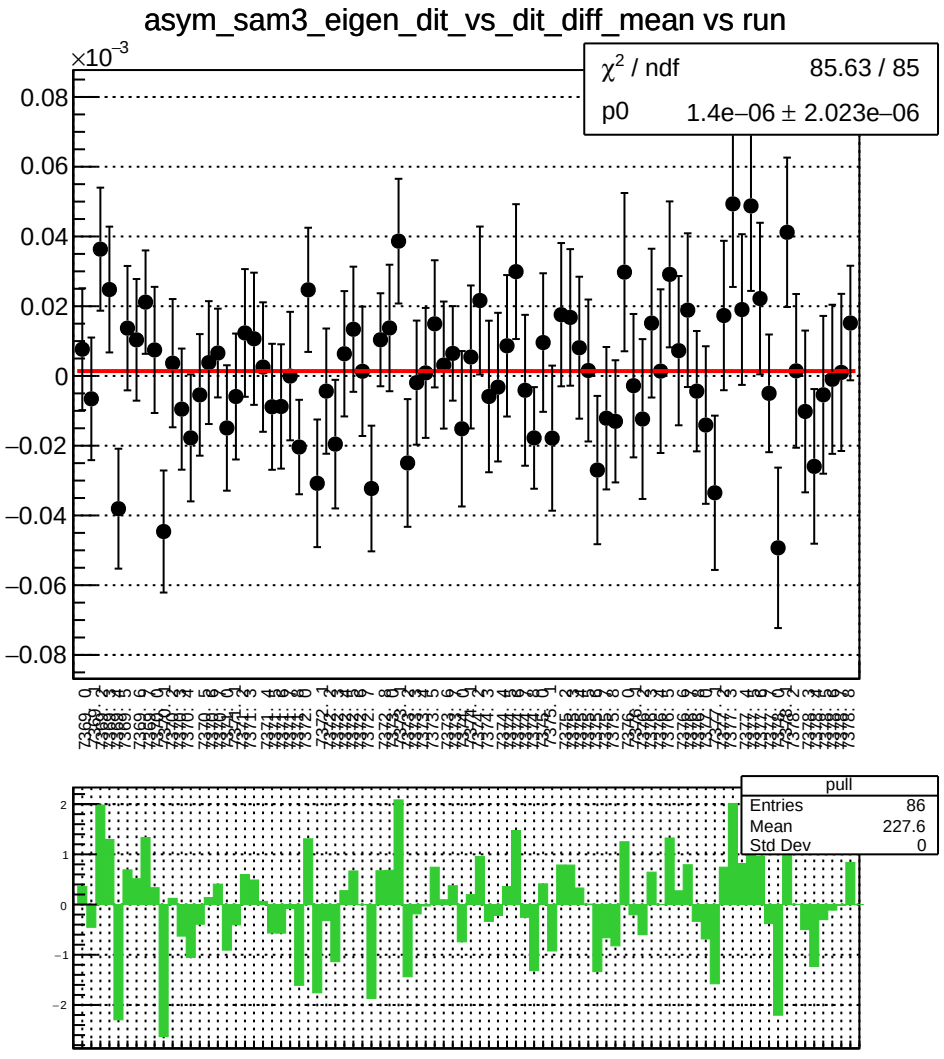

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.403e+06 / 85
p0 1.135e−11 ± 2.14e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

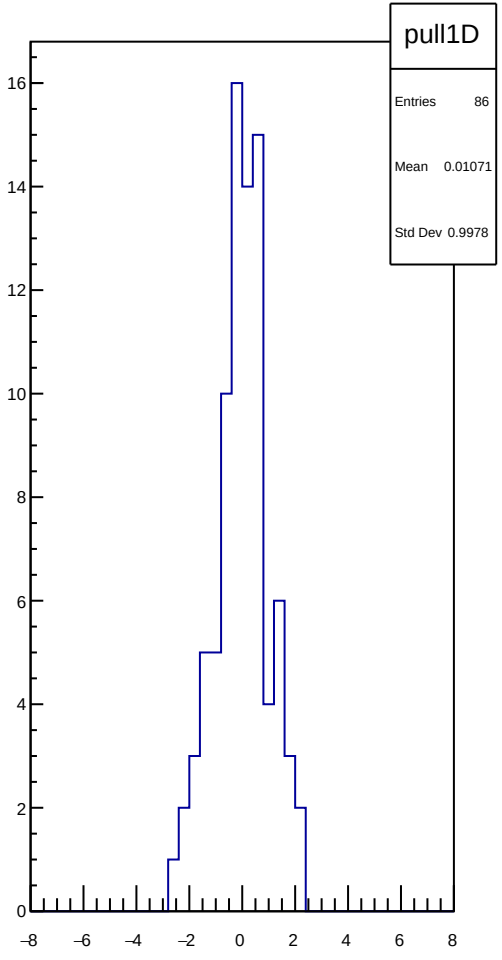

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 85
p0 0.06613 ± 0.114
pull
Entries 86
Mean 99.21
Std Dev 0
pull1D
Entries 86
Mean −0.04831
Std Dev 1.097

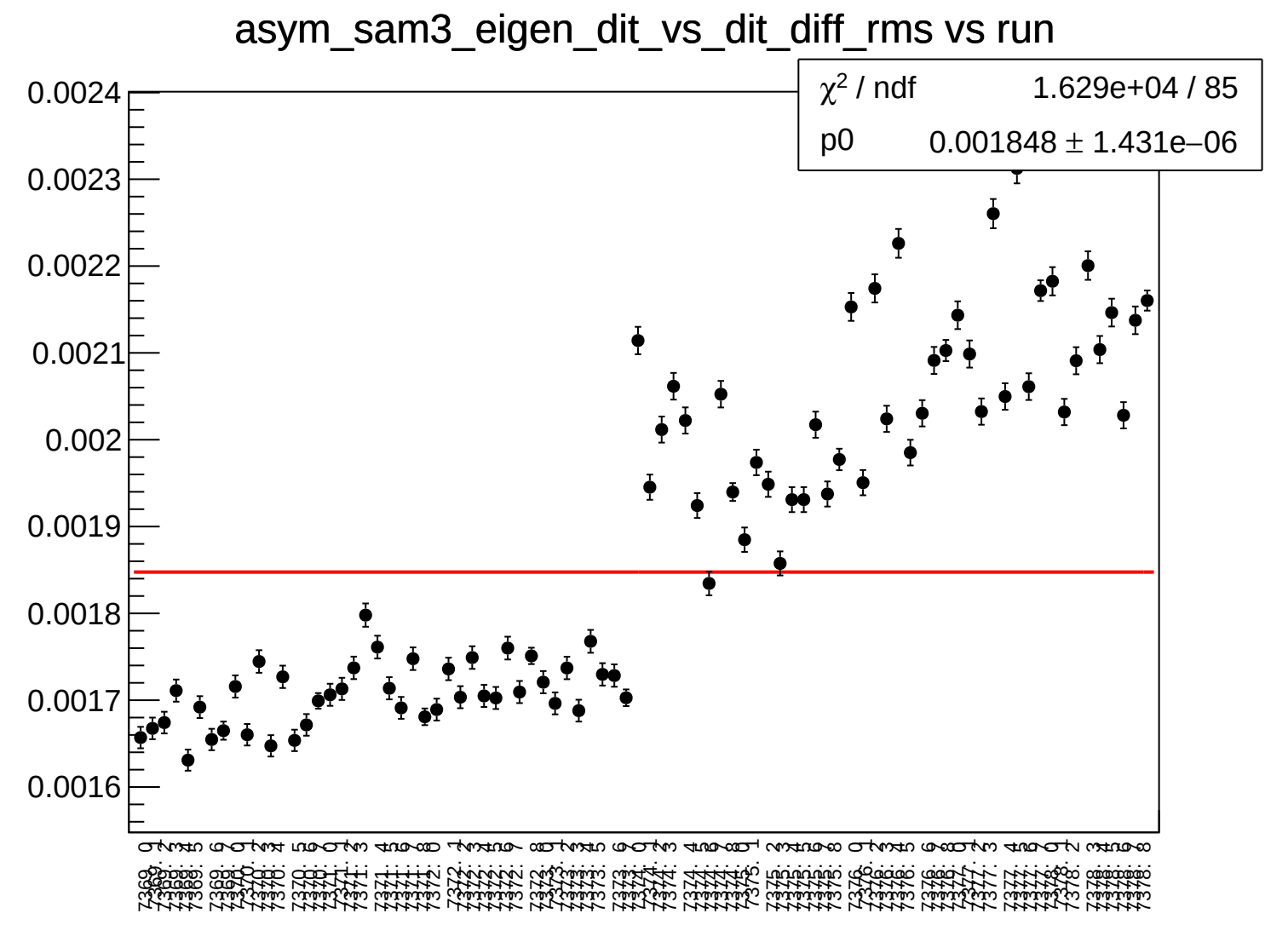

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 3.847e+05 / 85
p0 91.92 ± 0.08064
250
200
150
100
50

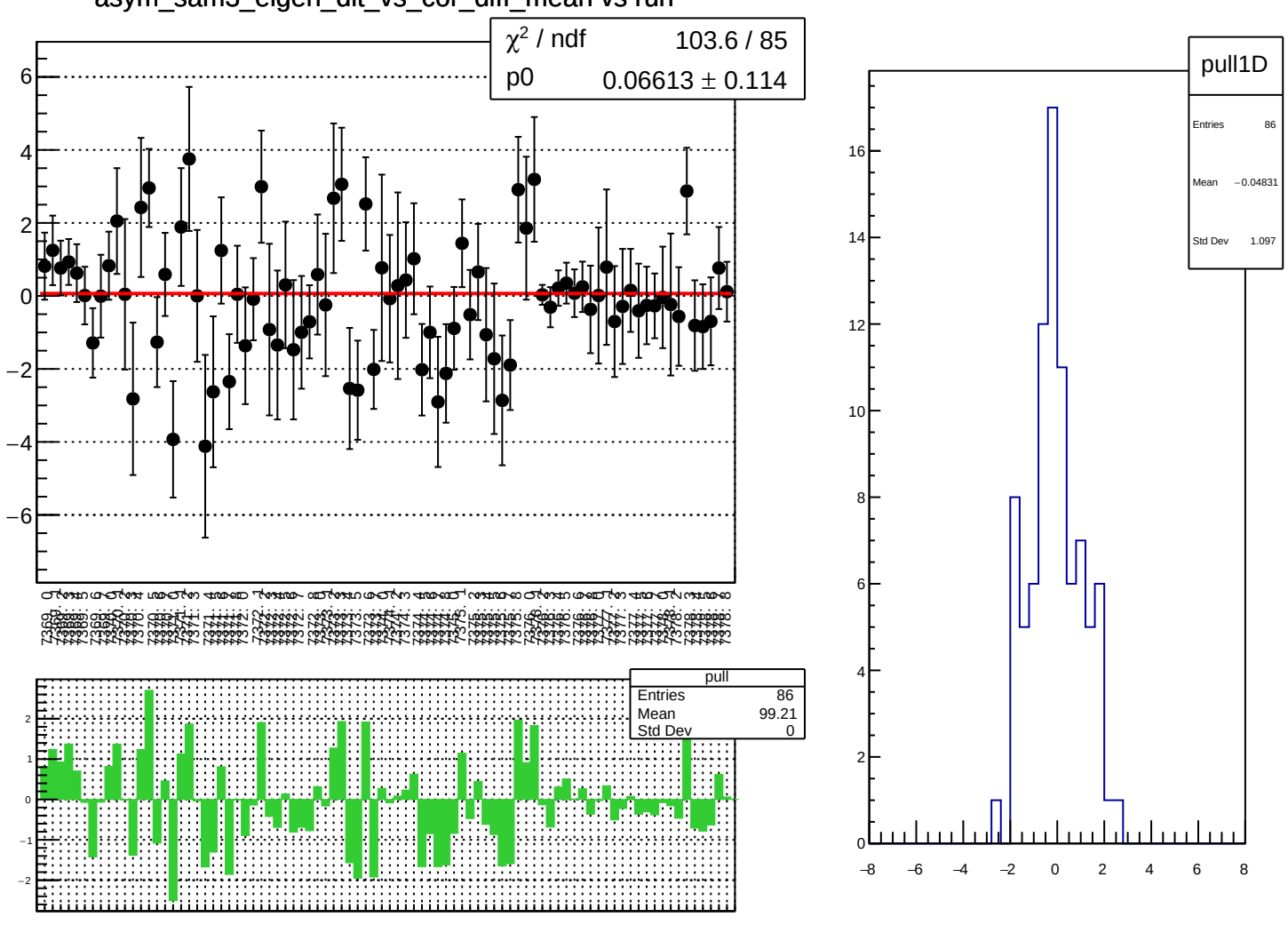

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 85
p0 0.06613 ± 0.114
pull
Entries 86
Mean 99.21
Std Dev 0
pull1D
Entries 86
Mean −0.04831
Std Dev 1.097

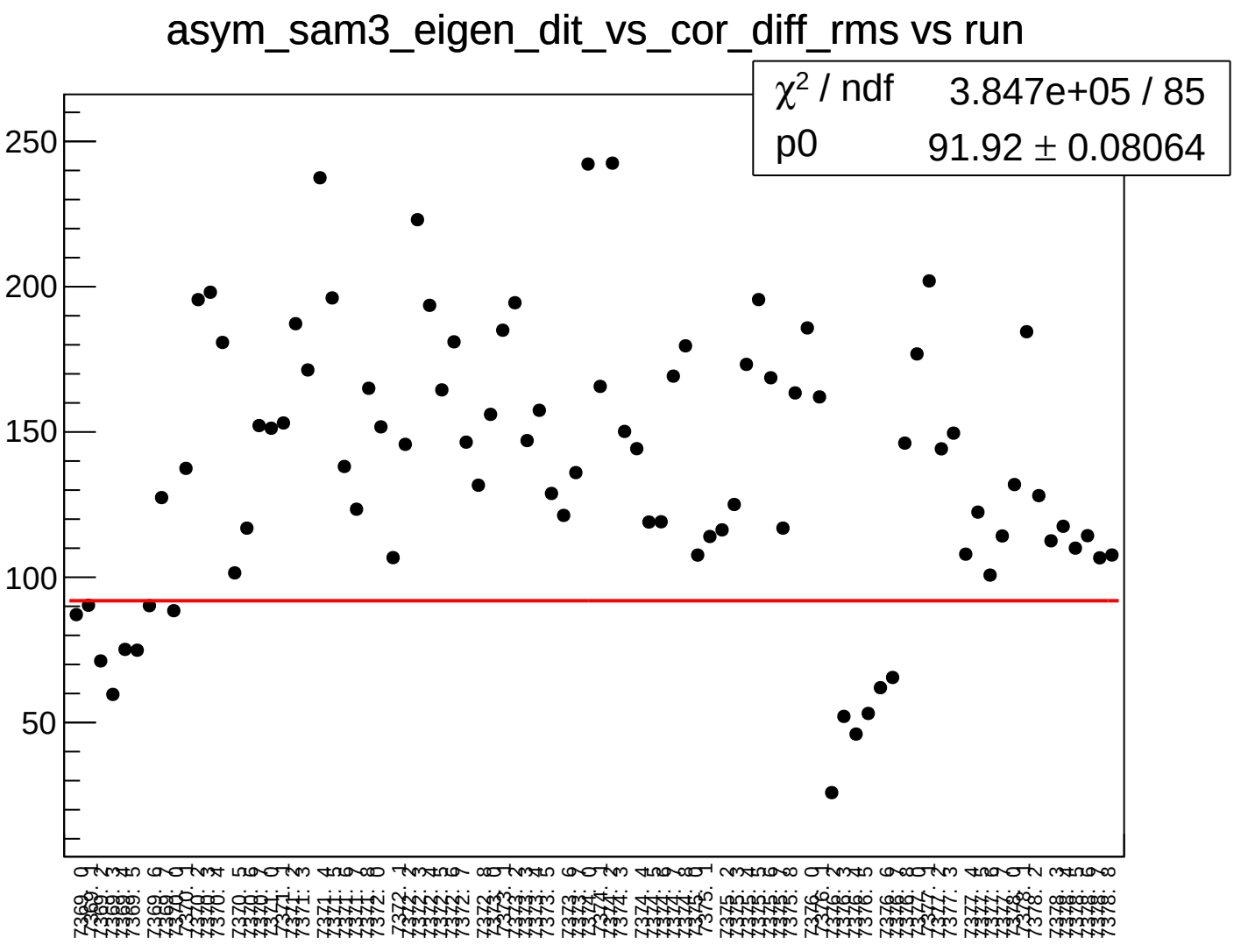

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.847e+05 / 85
p0 91.92 ± 0.08064
250
200
150
100
50

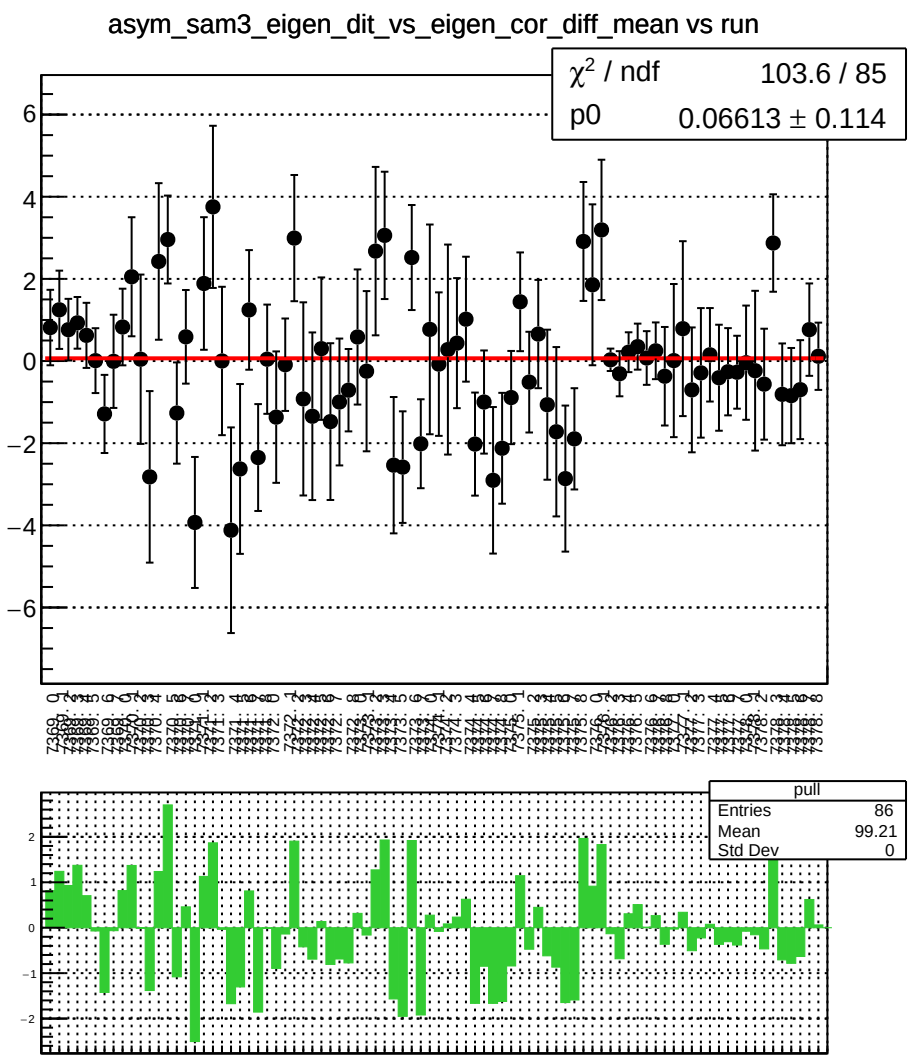

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.63 / 85
p0 1.4e−06 ± 2.023e−06
pull
Entries 86
Mean 227.6
Std Dev 0

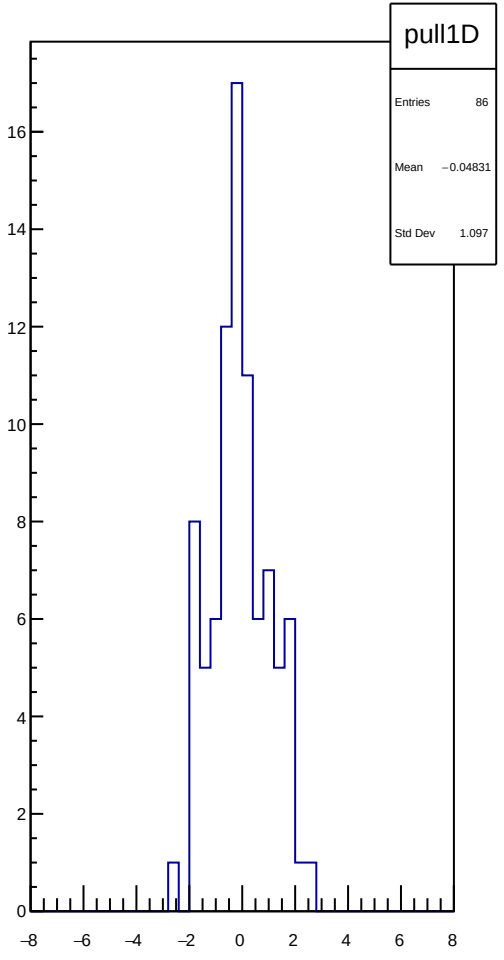

pull1D
Entries 86
Mean 0.01071
Std Dev 0.9978

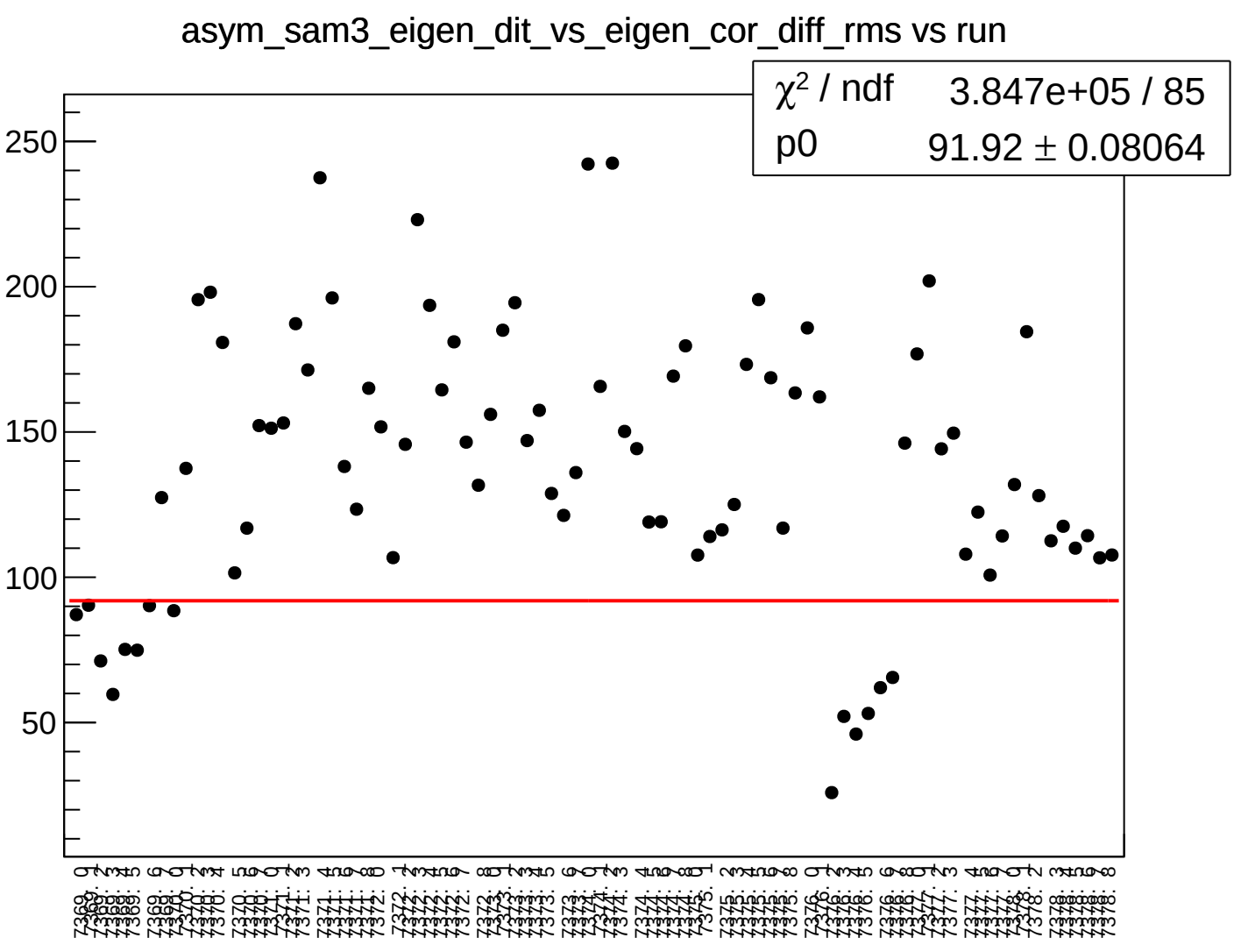

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.629e+04 / 85
p0 0.001848 ± 1.431e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

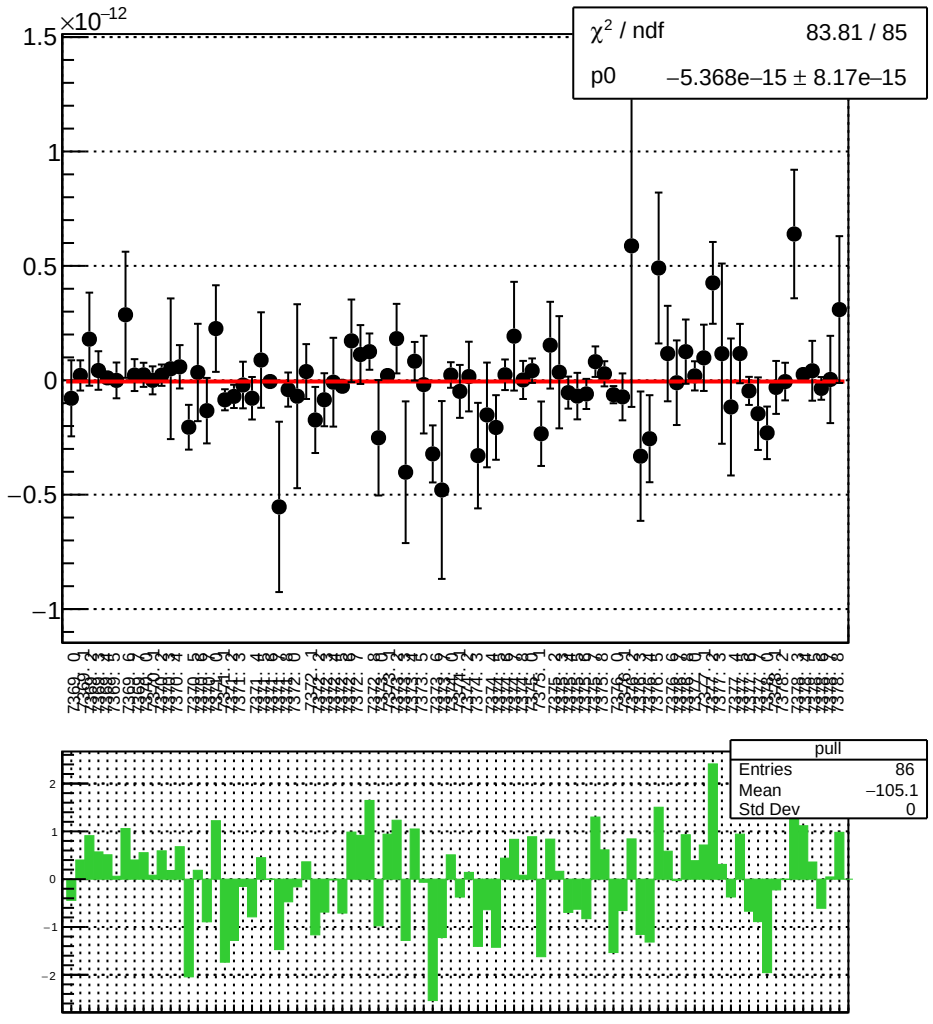

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 85
p0 0.06613 ± 0.114
pull
Entries 86
Mean 99.21
Std Dev 0
pull1D
Entries 86
Mean −0.04831
Std Dev 1.097

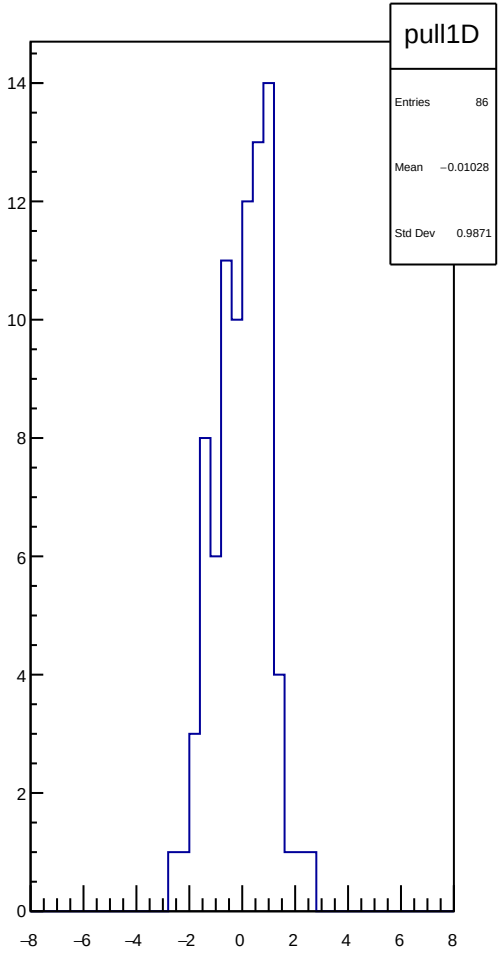

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.847e+05 / 85
p0 91.92 ± 0.08064
250
200
150
100
50

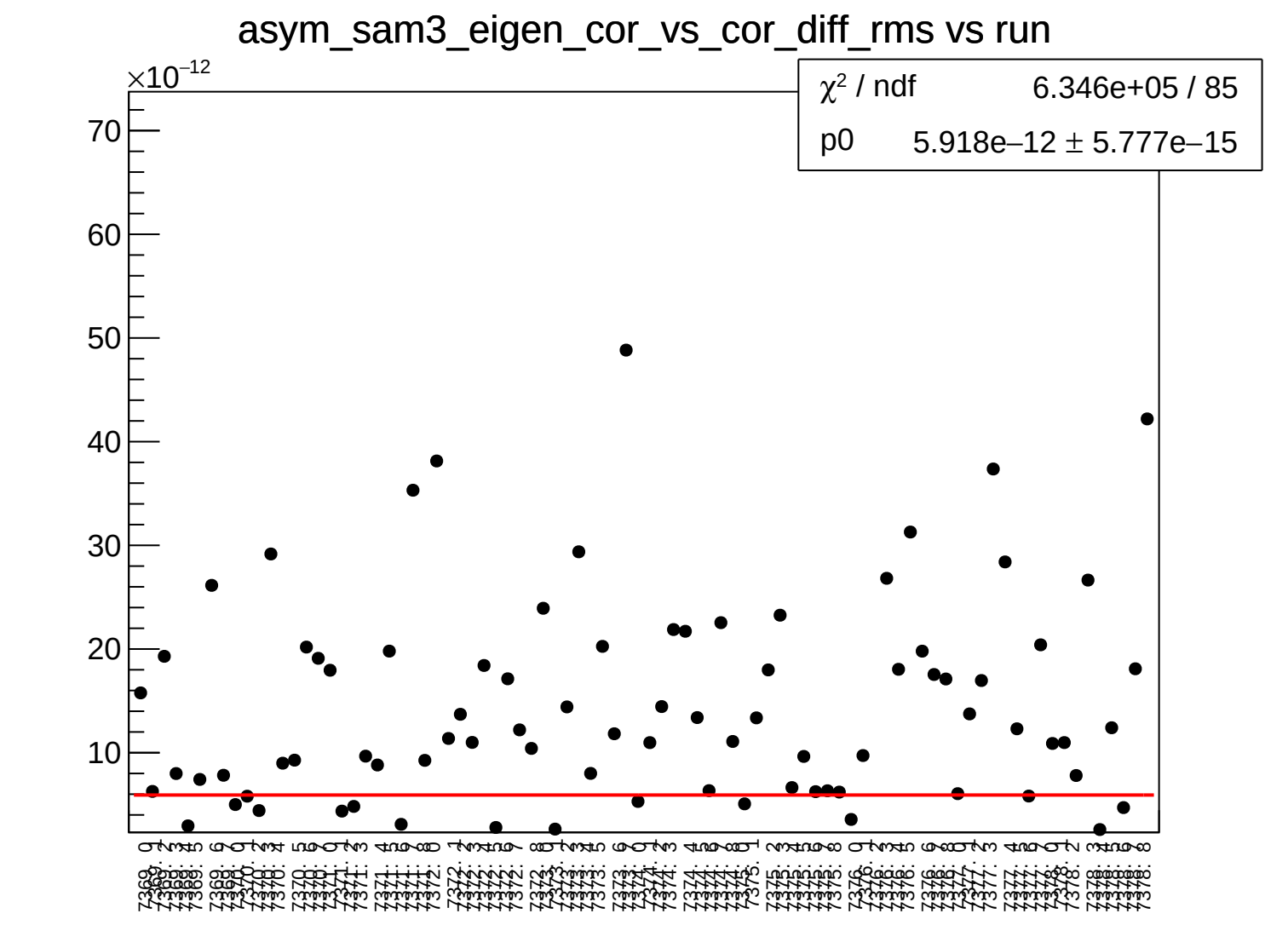

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 85
p0 0.06613 ± 0.114
pull
Entries 86
Mean 99.21
Std Dev 0

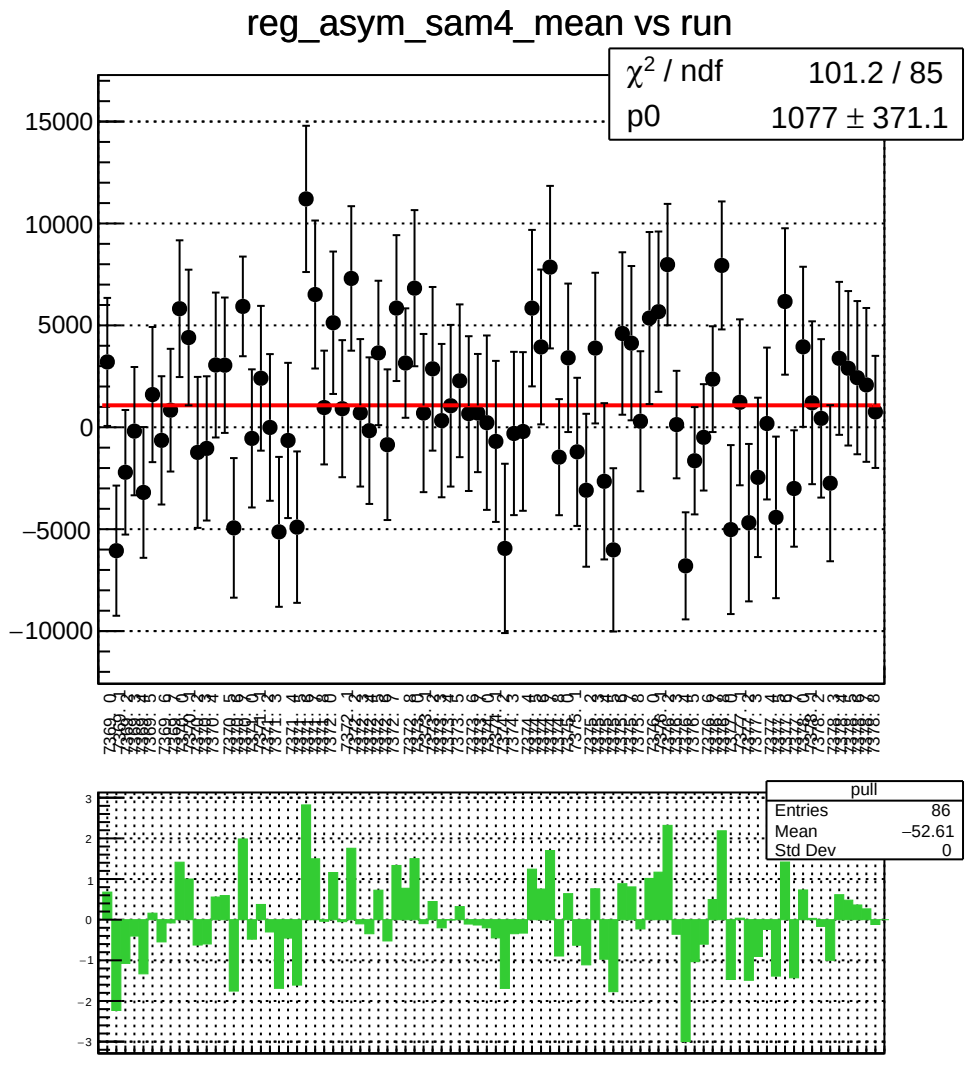

pull1D
Entries 86
Mean −0.04831
Std Dev 1.097

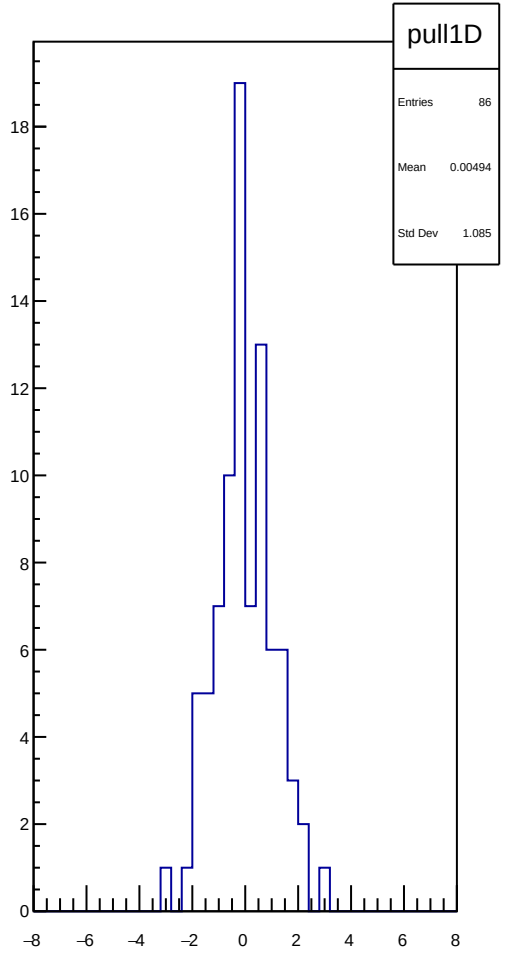

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.847e+05 / 85
p0 91.92 ± 0.08064
250
200
150
100
50


asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.81 / 85
p0 −5.368e−15 ± 8.17e−15
pull
Entries 86
Mean −105.1
Std Dev 0


pull1D
Entries 86
Mean −0.01028
Std Dev 0.9871


asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.346e+05 / 85
p0 5.918e−12 ± 5.777e−15
70
60
50
40
30
20
10


reg_asym_sam4_mean vs run
χ² / ndf 101.2 / 85
p0 1077 ± 371.1
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −52.61
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.00494
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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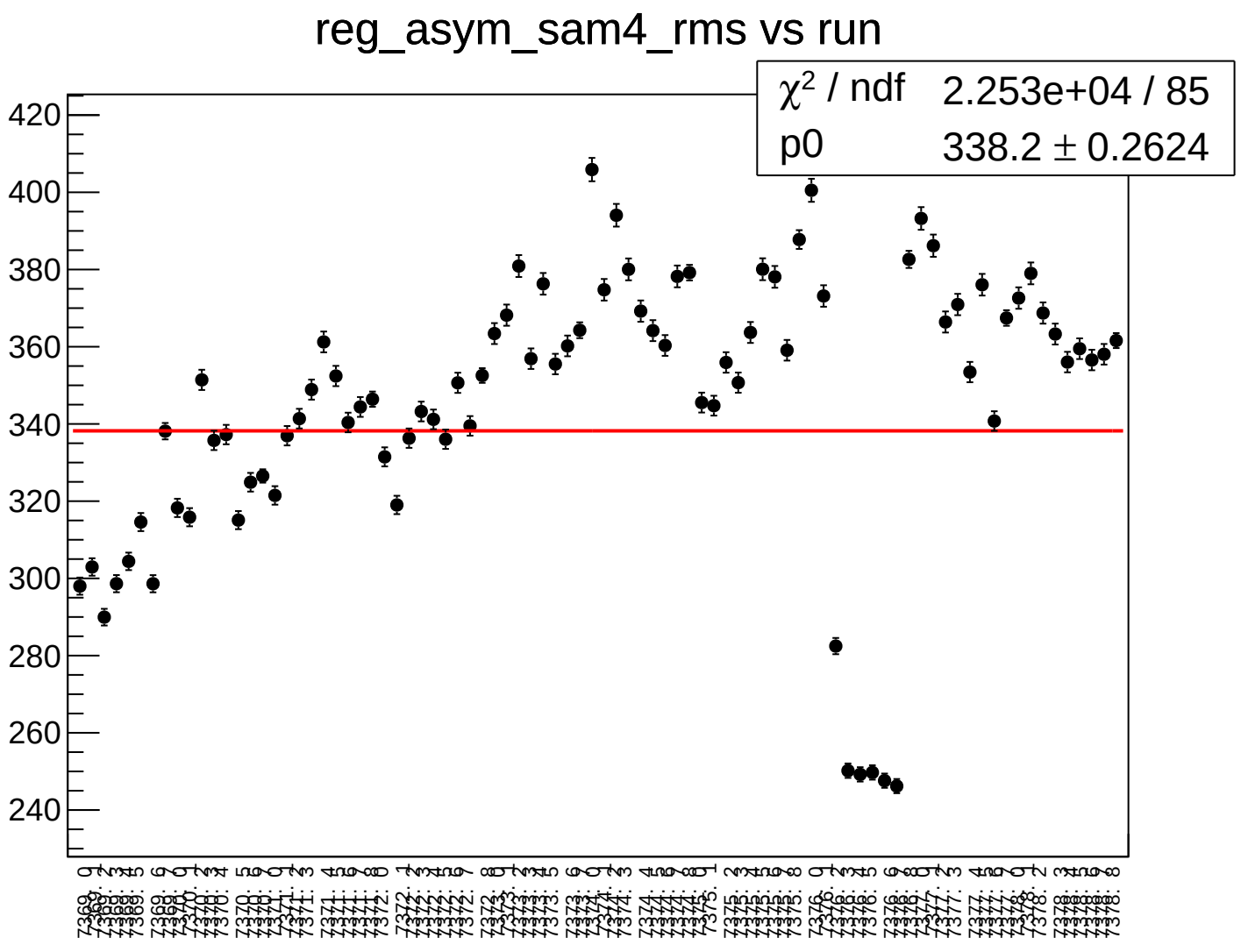
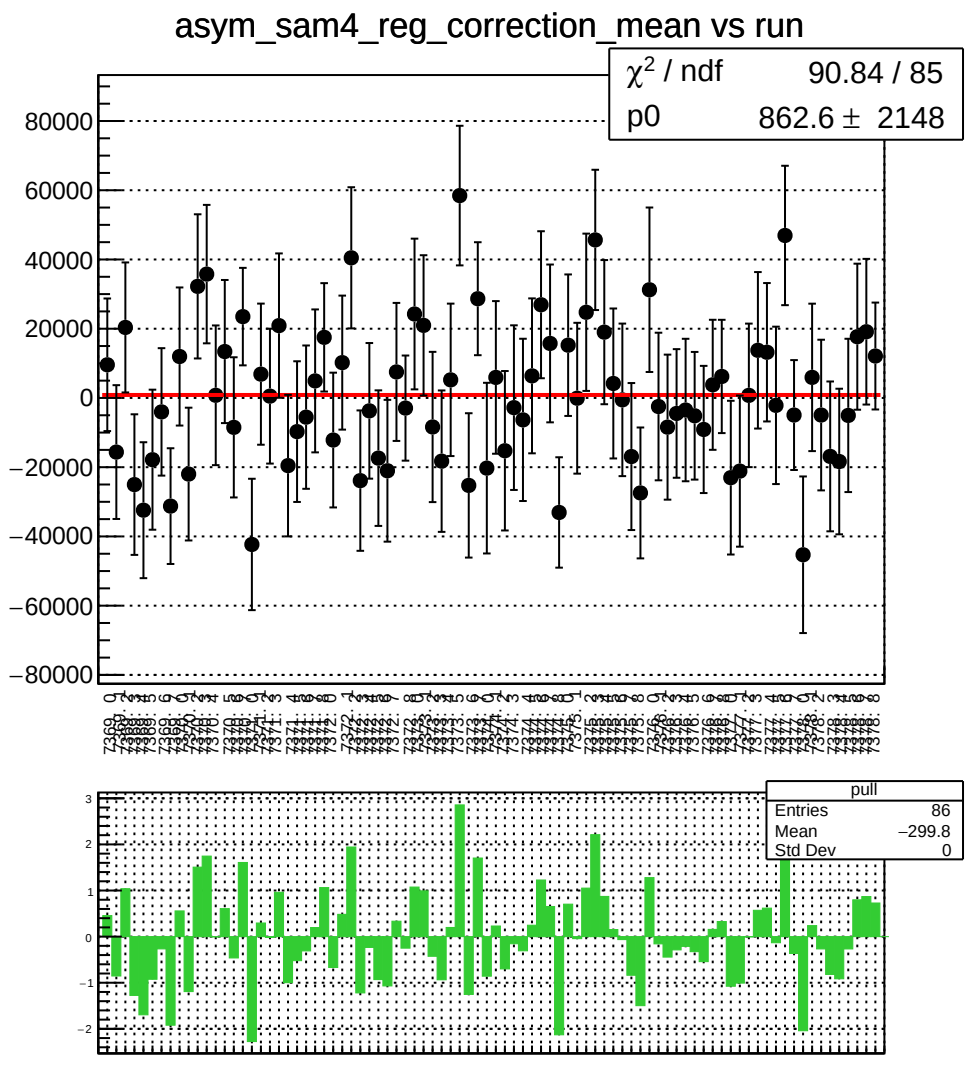
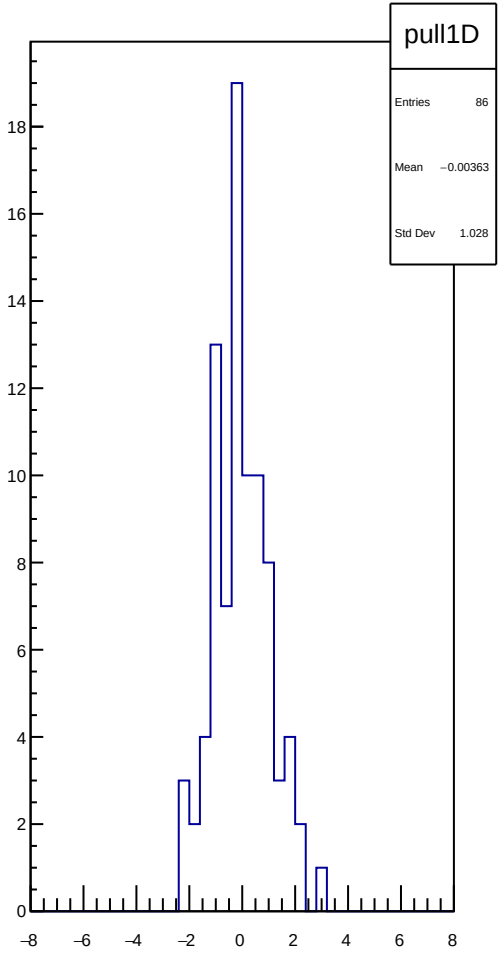
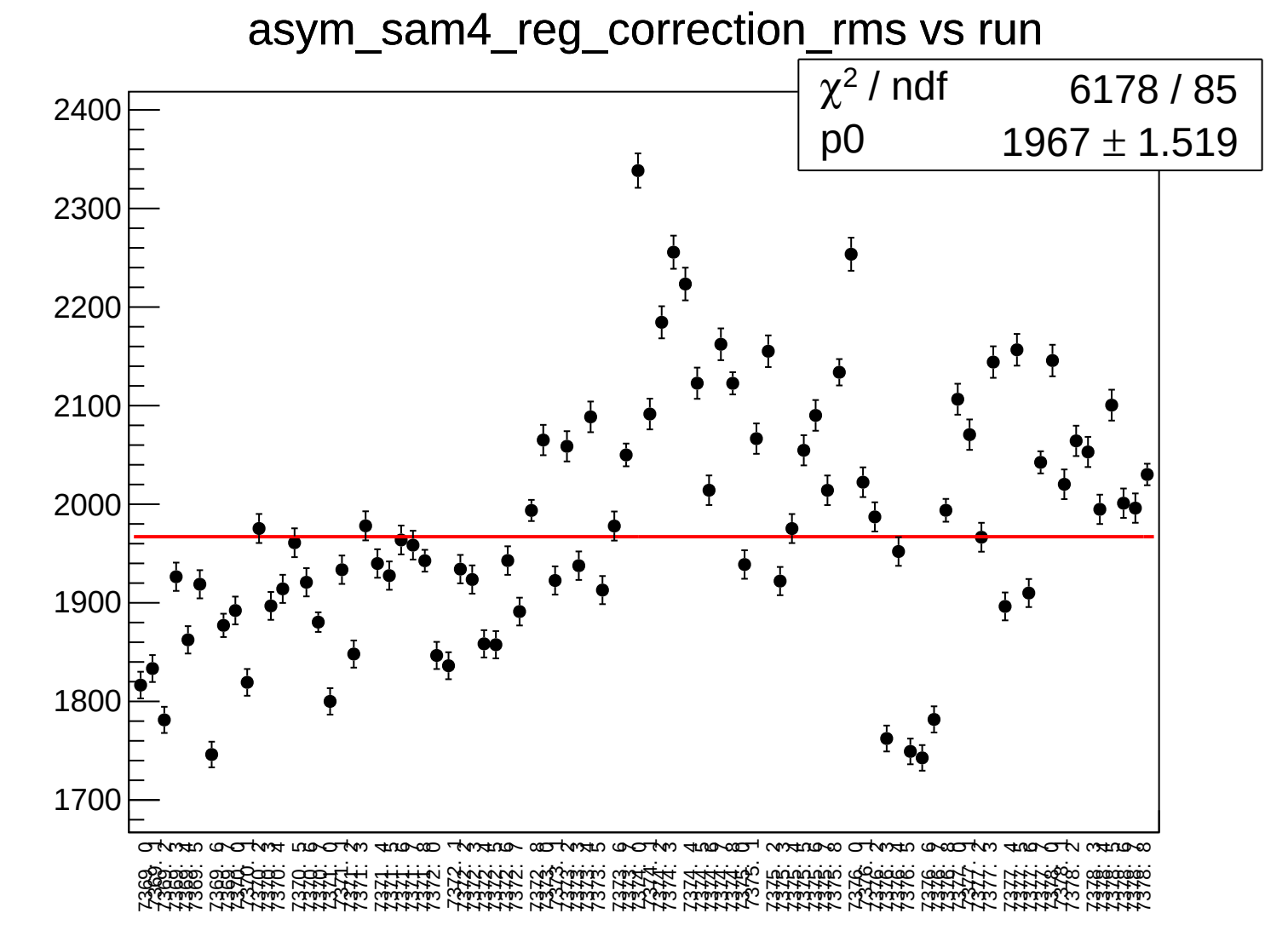
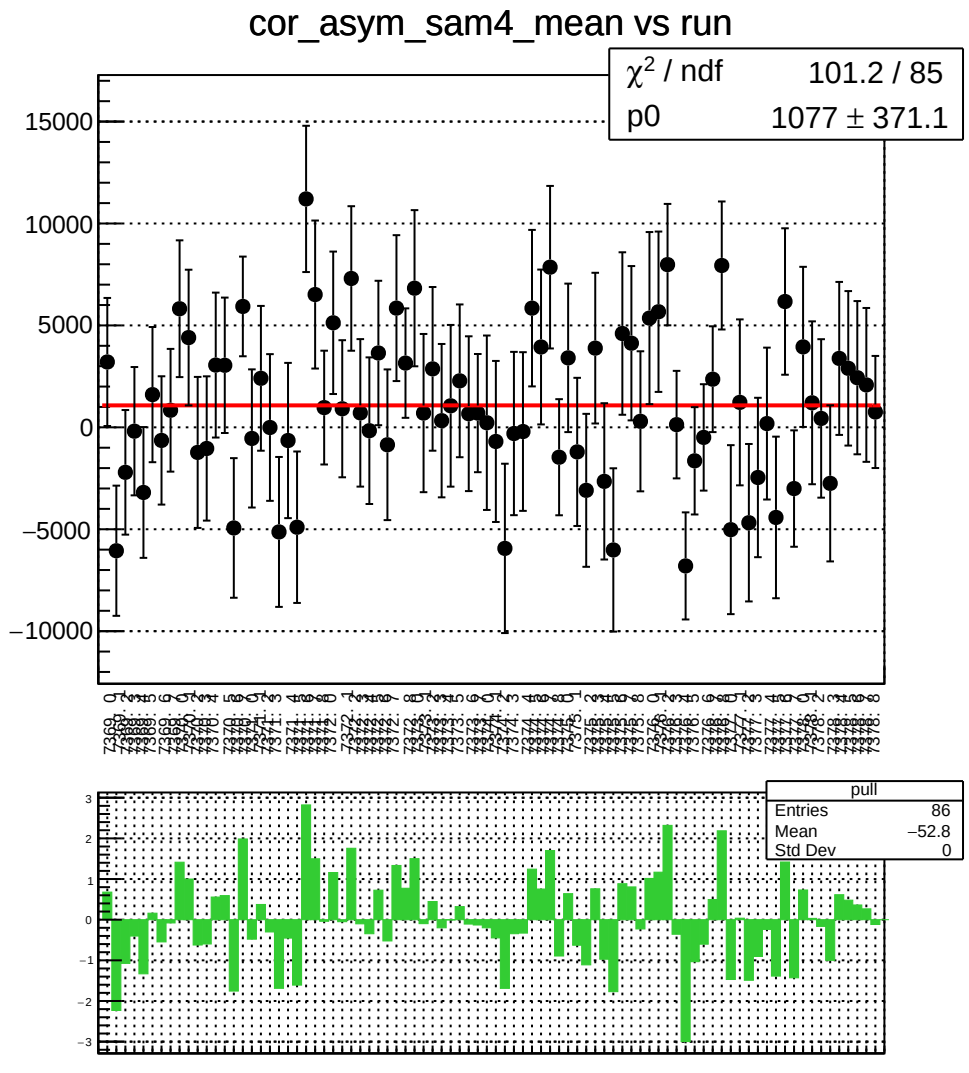
0
2
4
6
8

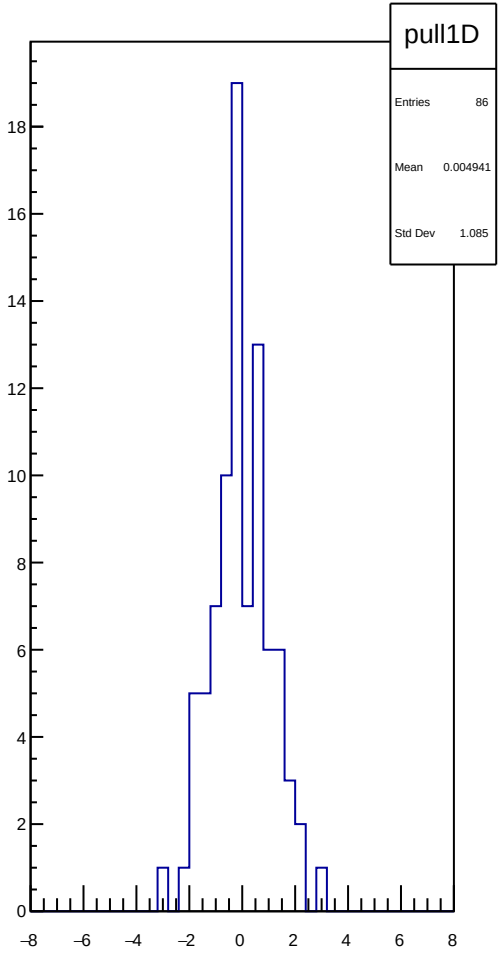

reg_asym_sam4_rms vs run
χ² / ndf 2.253e+04 / 85
p0 338.2 ± 0.2624
420
400
380
360
340
320
300
280
260
240


asym_sam4_reg_correction_mean vs run
χ² / ndf 90.84 / 85
p0 862.6 ± 2148
pull
Entries 86
Mean −299.8
Std Dev 0


pull1D
Entries 86
Mean −0.00363
Std Dev 1.028


asym_sam4_reg_correction_rms vs run
χ² / ndf 6178 / 85
p0 1967 ± 1.519
2400
2300
2200
2100
2000
1900
1800
1700


cor_asym_sam4_mean vs run
χ² / ndf 101.2 / 85
p0 1077 ± 371.1
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −52.8
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.004941
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
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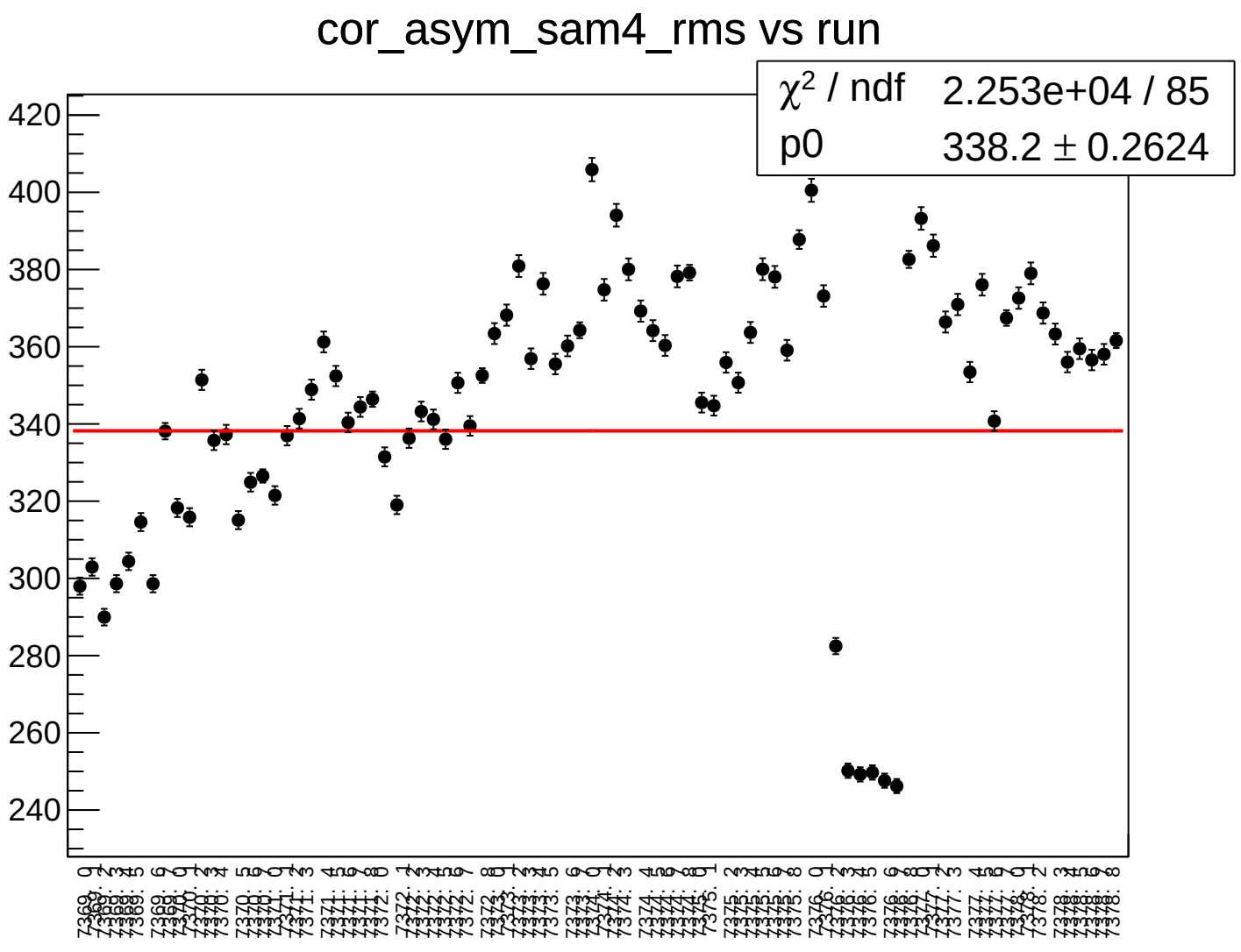
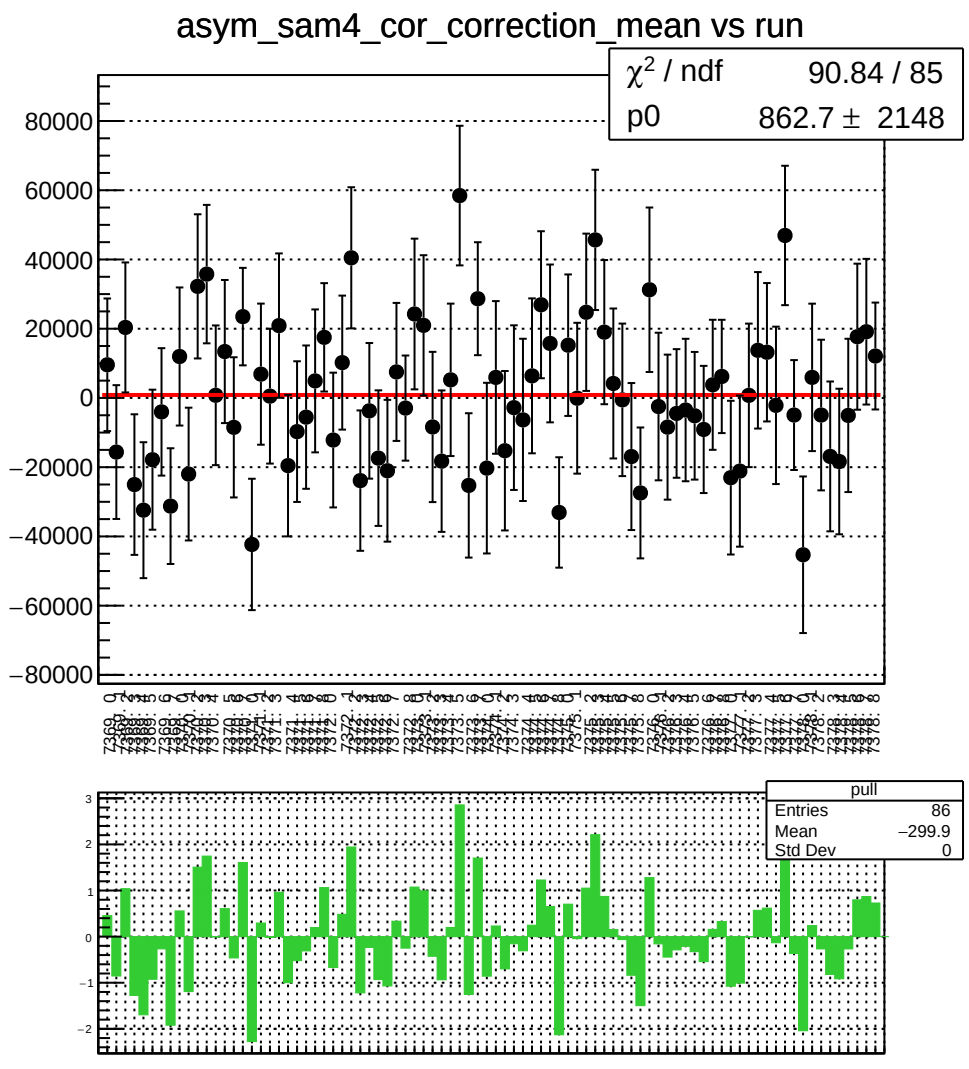
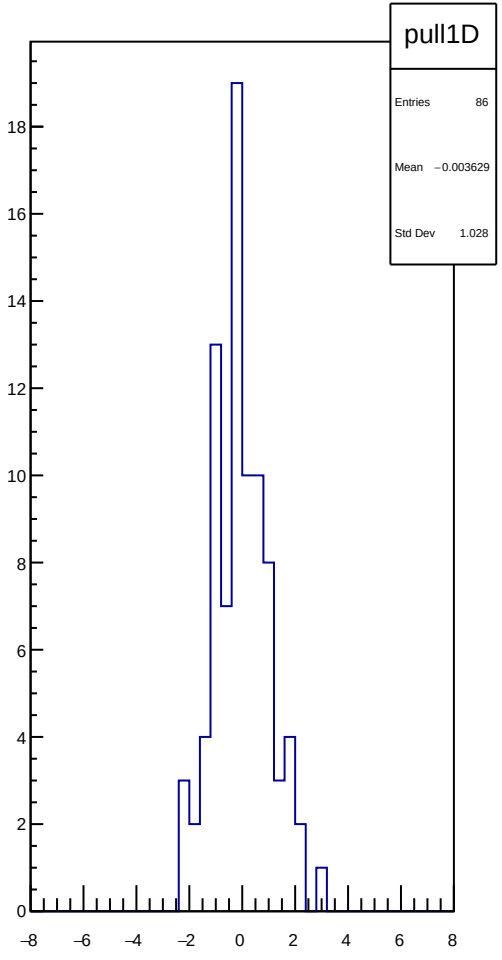
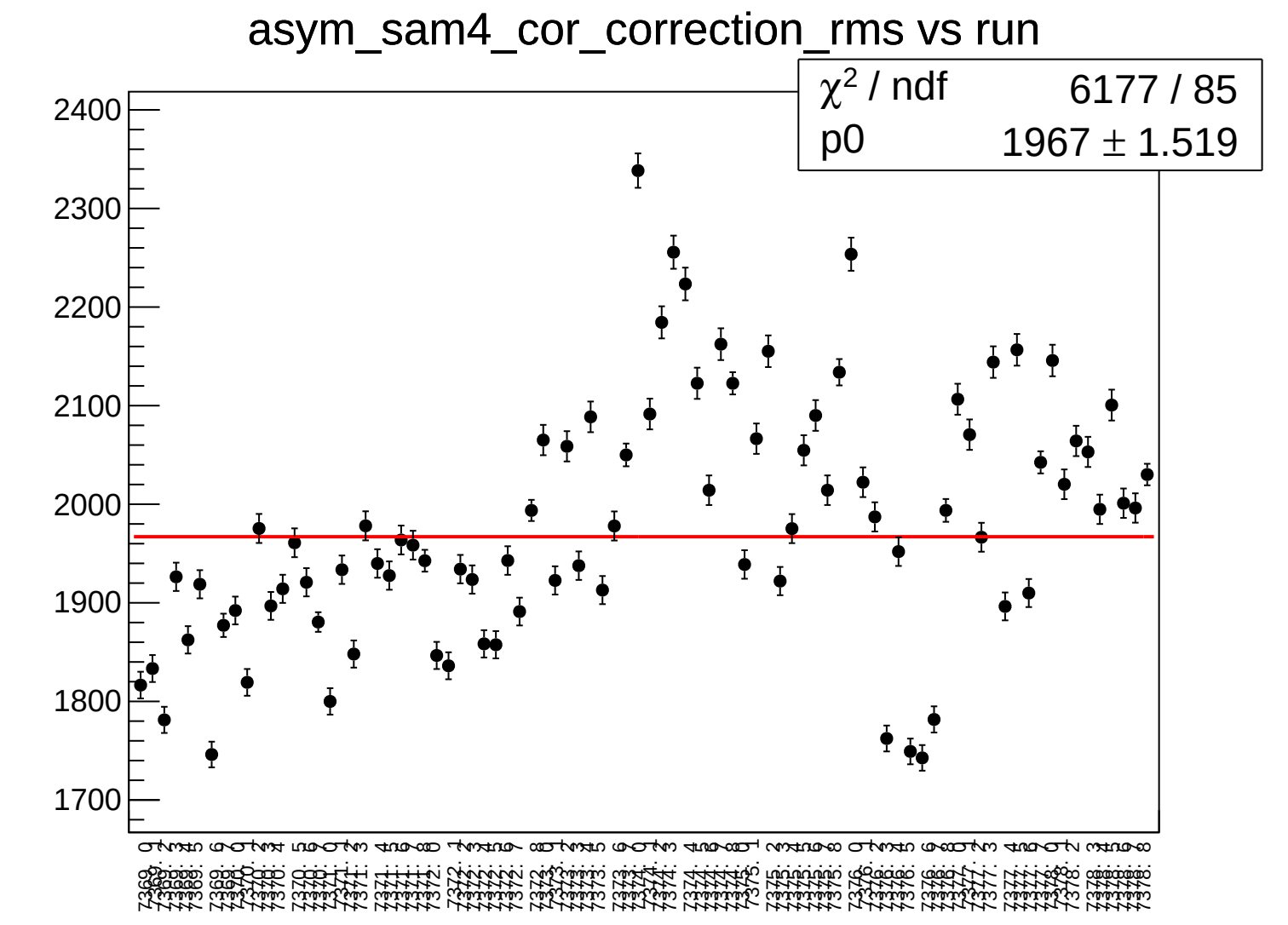
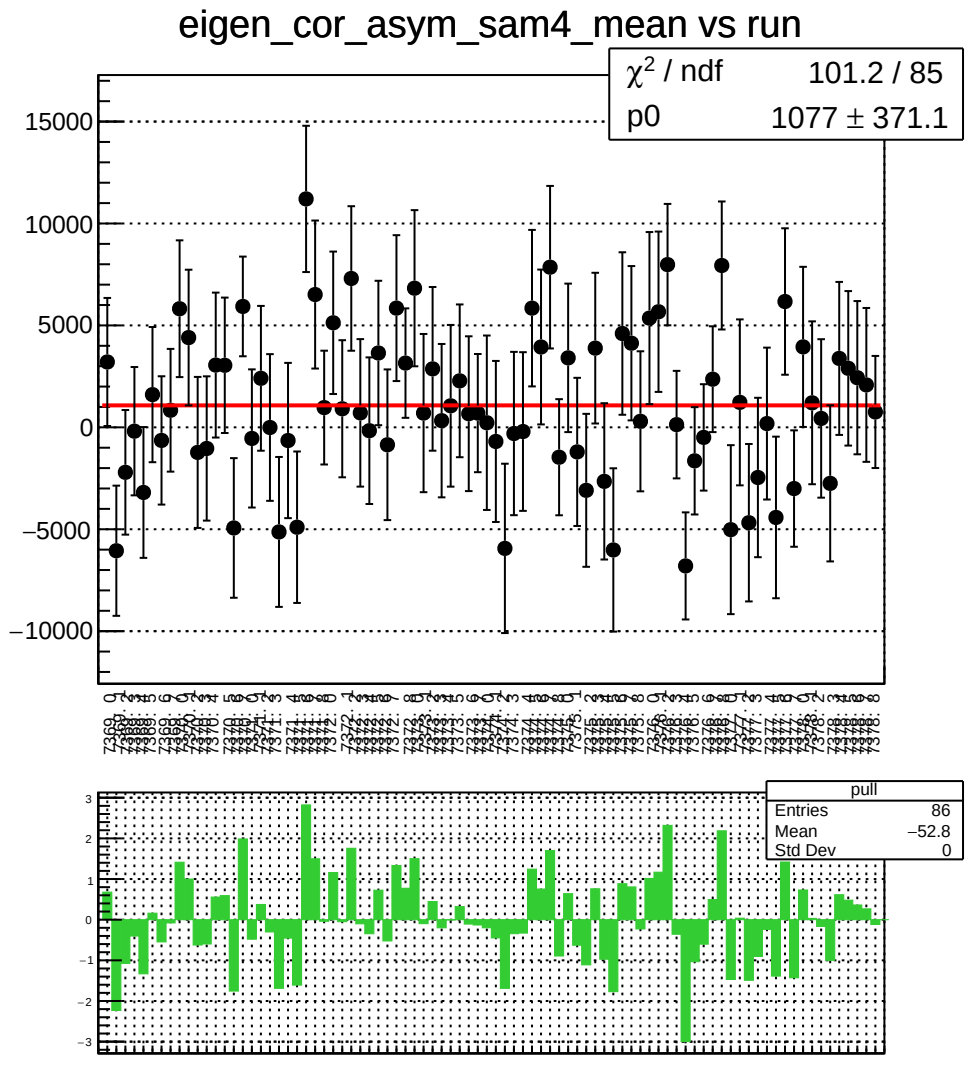
−4
−2
0
2
4
6
8

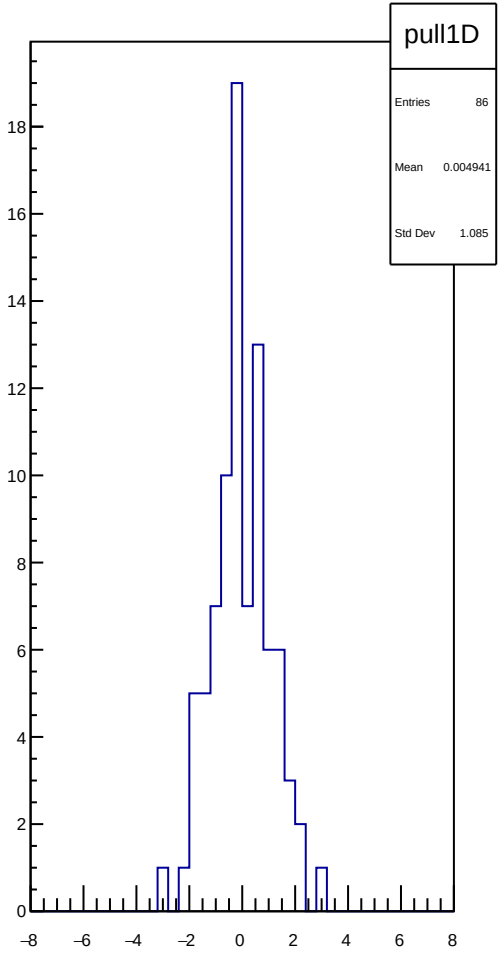

cor_asym_sam4_rms vs run
χ² / ndf 2.253e+04 / 85
p0 338.2 ± 0.2624
420
400
380
360
340
320
300
280
260
240

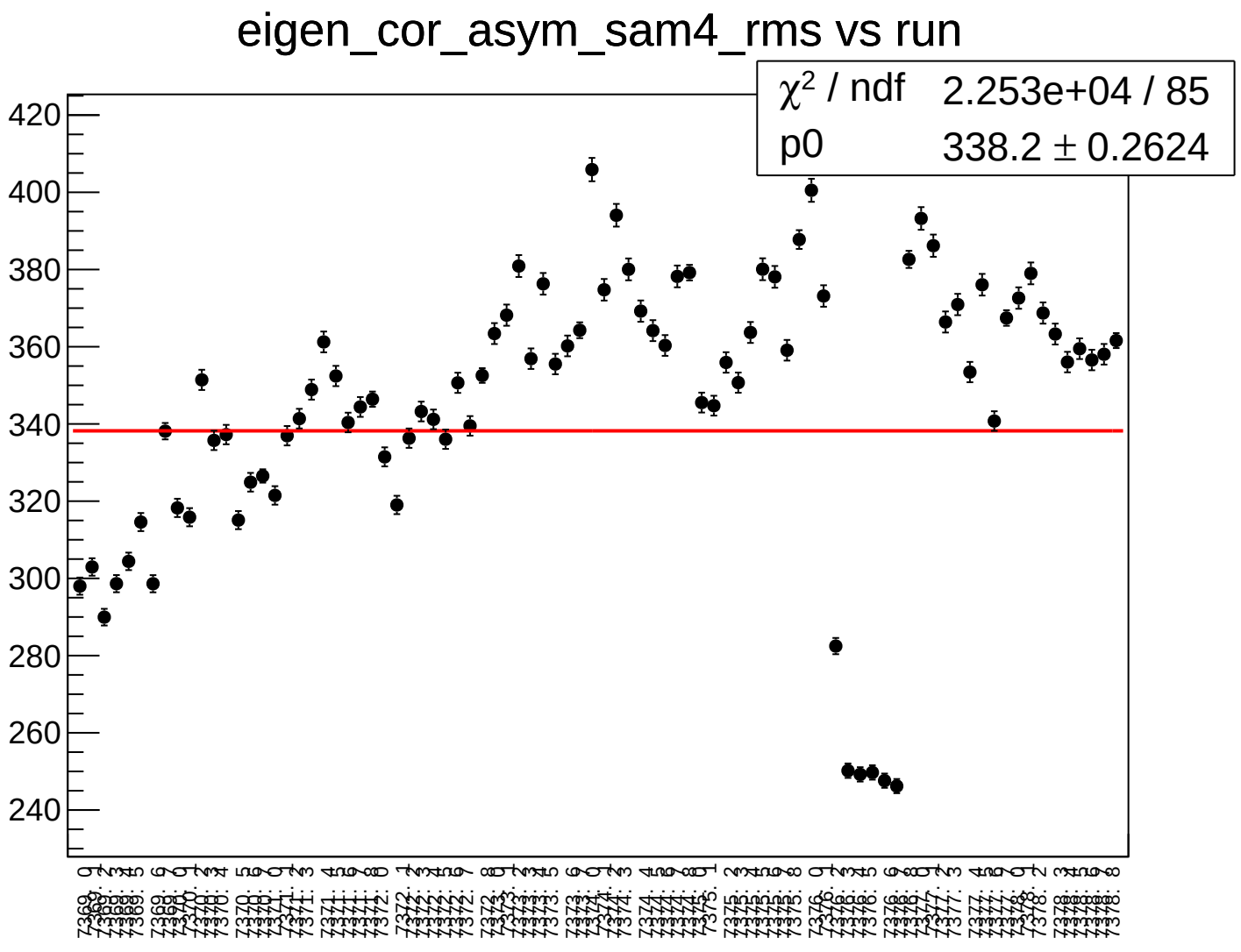

asym_sam4_cor_correction_mean vs run
χ² / ndf 90.84 / 85
p0 862.7 ± 2148
pull
Entries 86
Mean −299.9
Std Dev 0

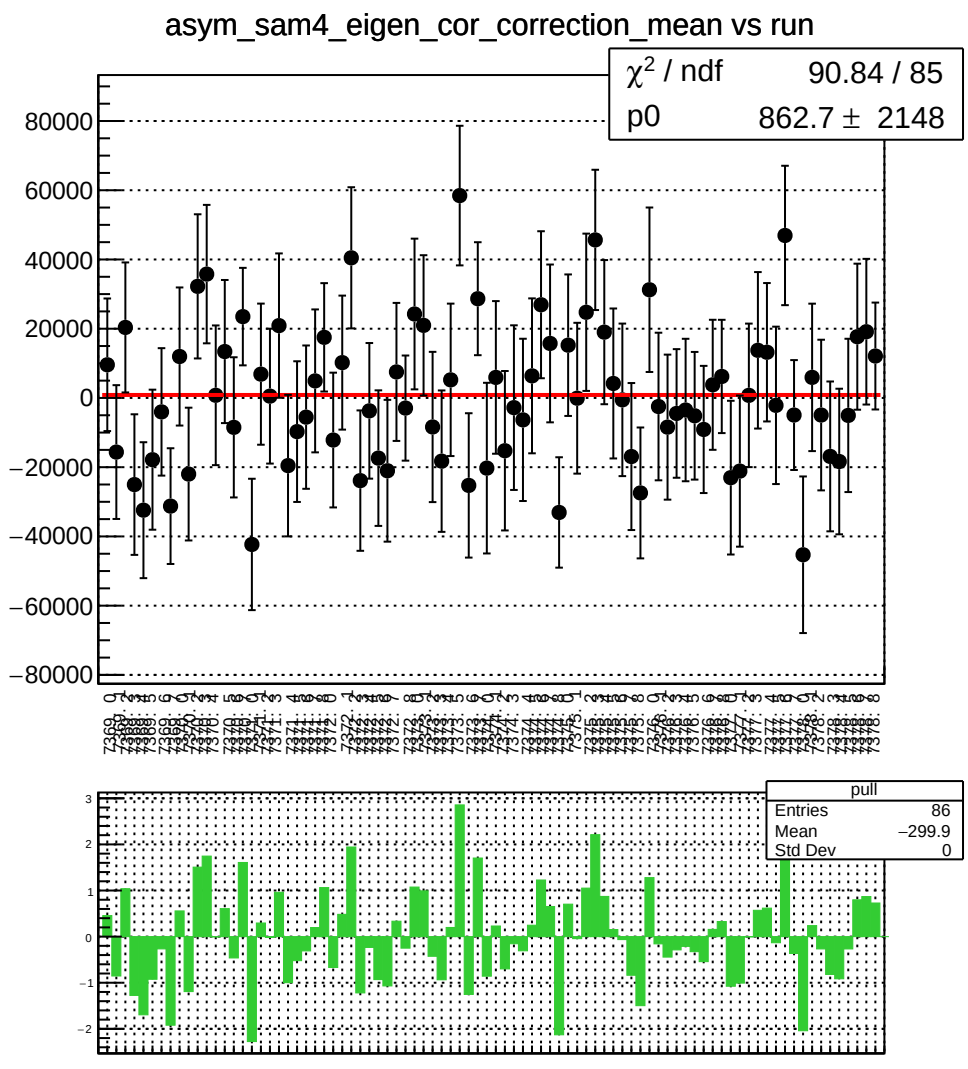

pull1D
Entries 86
Mean −0.003629
Std Dev 1.028

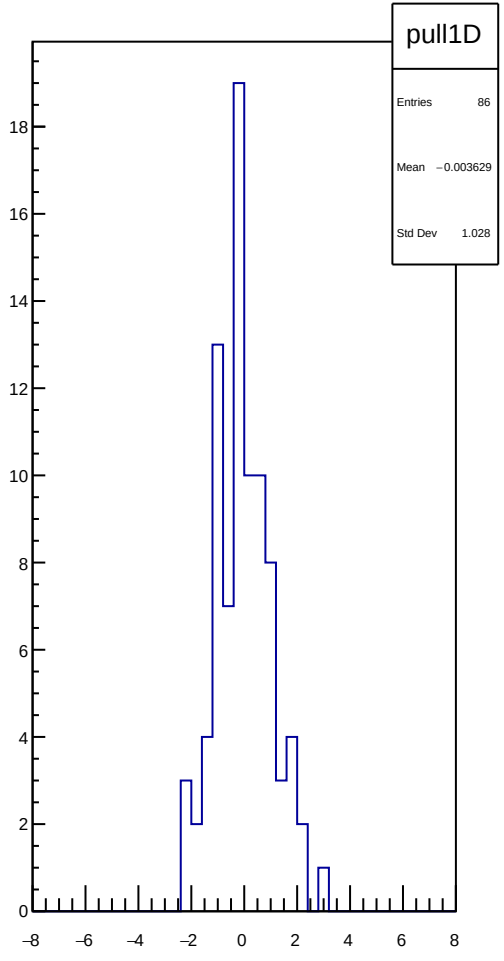

asym_sam4_cor_correction_rms vs run
χ² / ndf 6177 / 85
p0 1967 ± 1.519
2400
2300
2200
2100
2000
1900
1800
1700

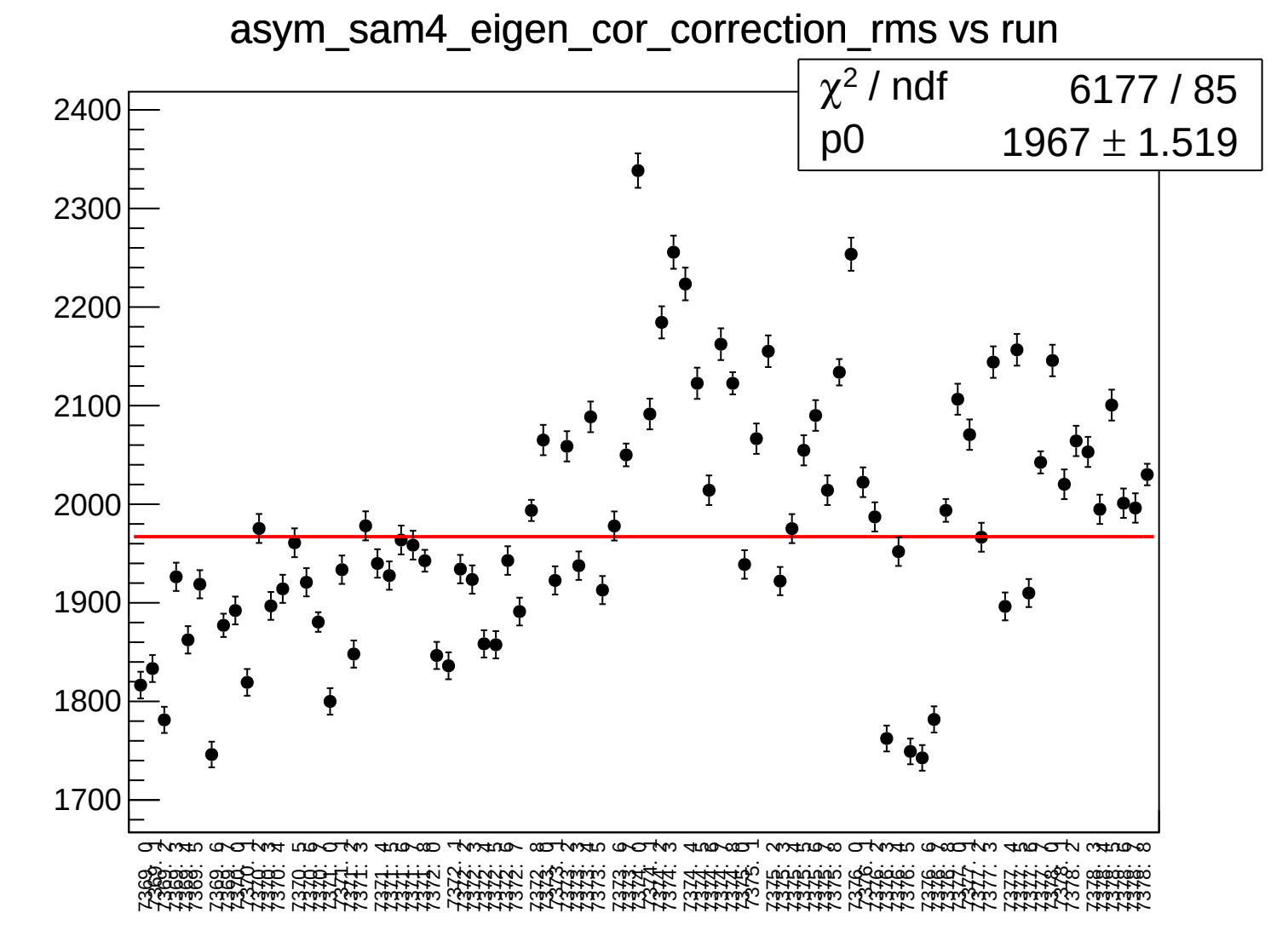

eigen_cor_asym_sam4_mean vs run
χ² / ndf 101.2 / 85
p0 1077 ± 371.1
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −52.8
Std Dev 0
3
2
1
0
−1
−2
−3

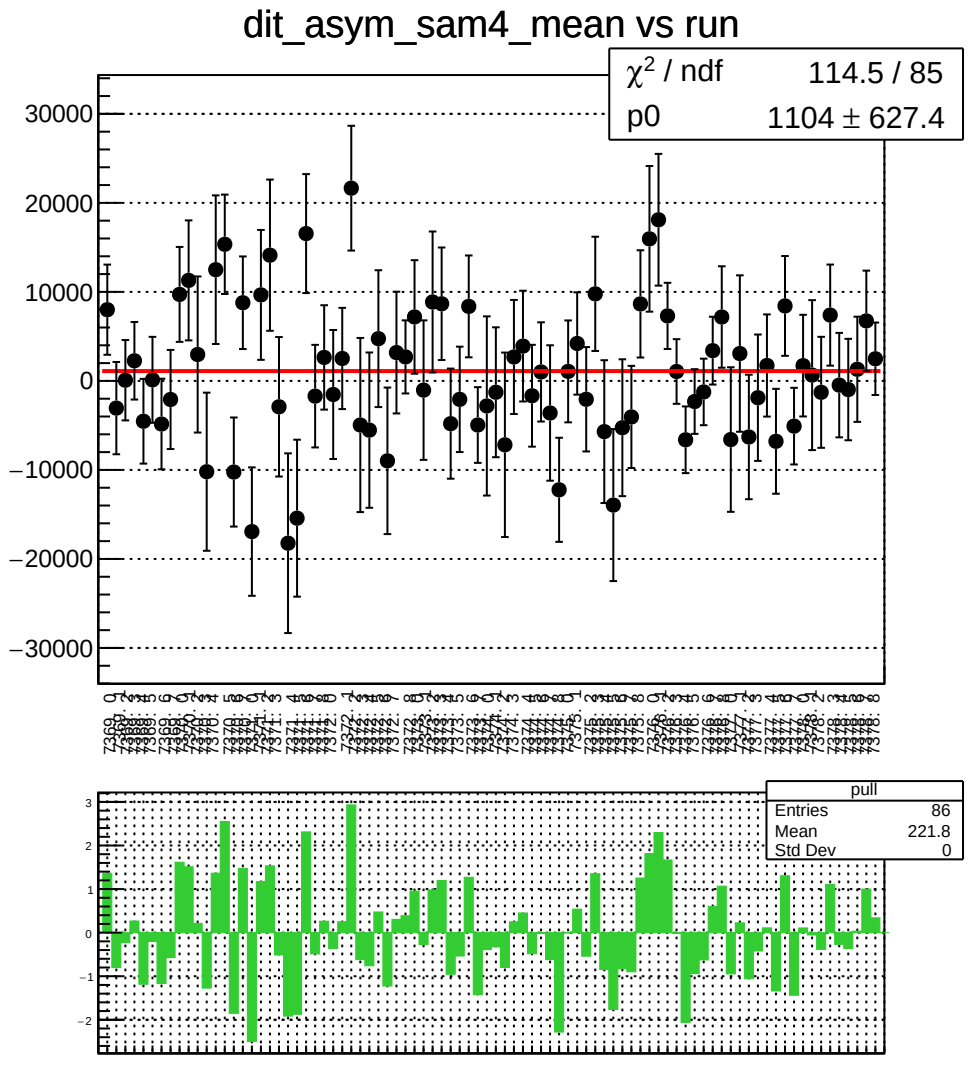

pull1D
Entries 86
Mean 0.004941
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

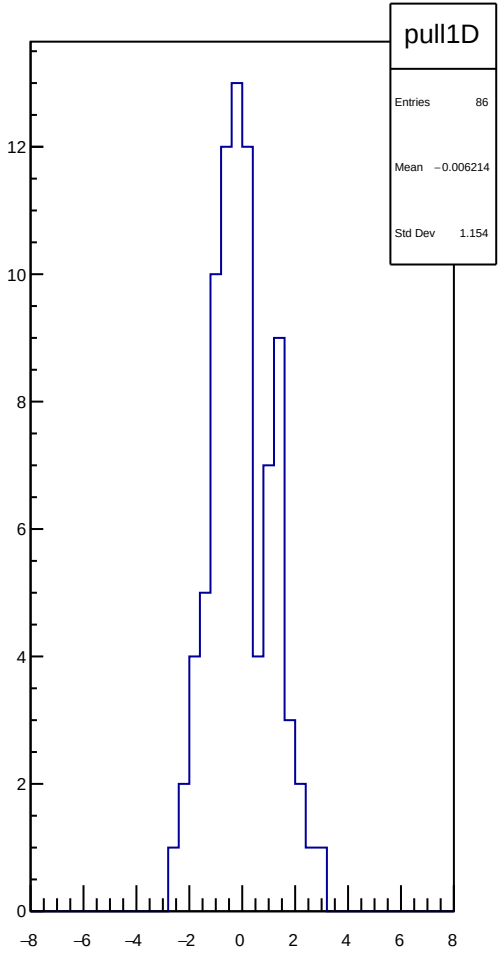

eigen_cor_asym_sam4_rms vs run
χ² / ndf 2.253e+04 / 85
p0 338.2 ± 0.2624
420
400
380
360
340
320
300
280
260
240

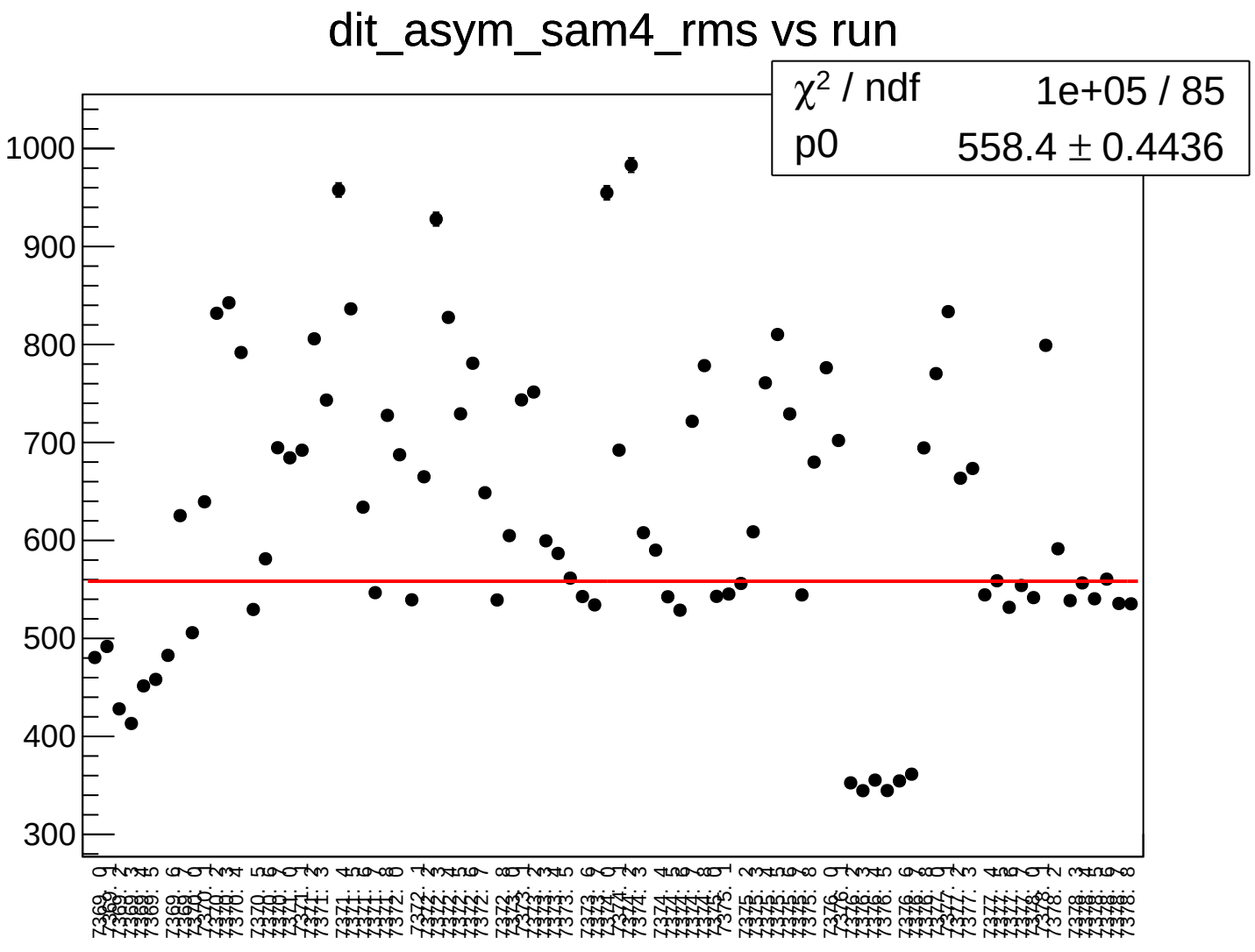

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 90.84 / 85
p0 862.7 ± 2148
pull
Entries 86
Mean −299.9
Std Dev 0

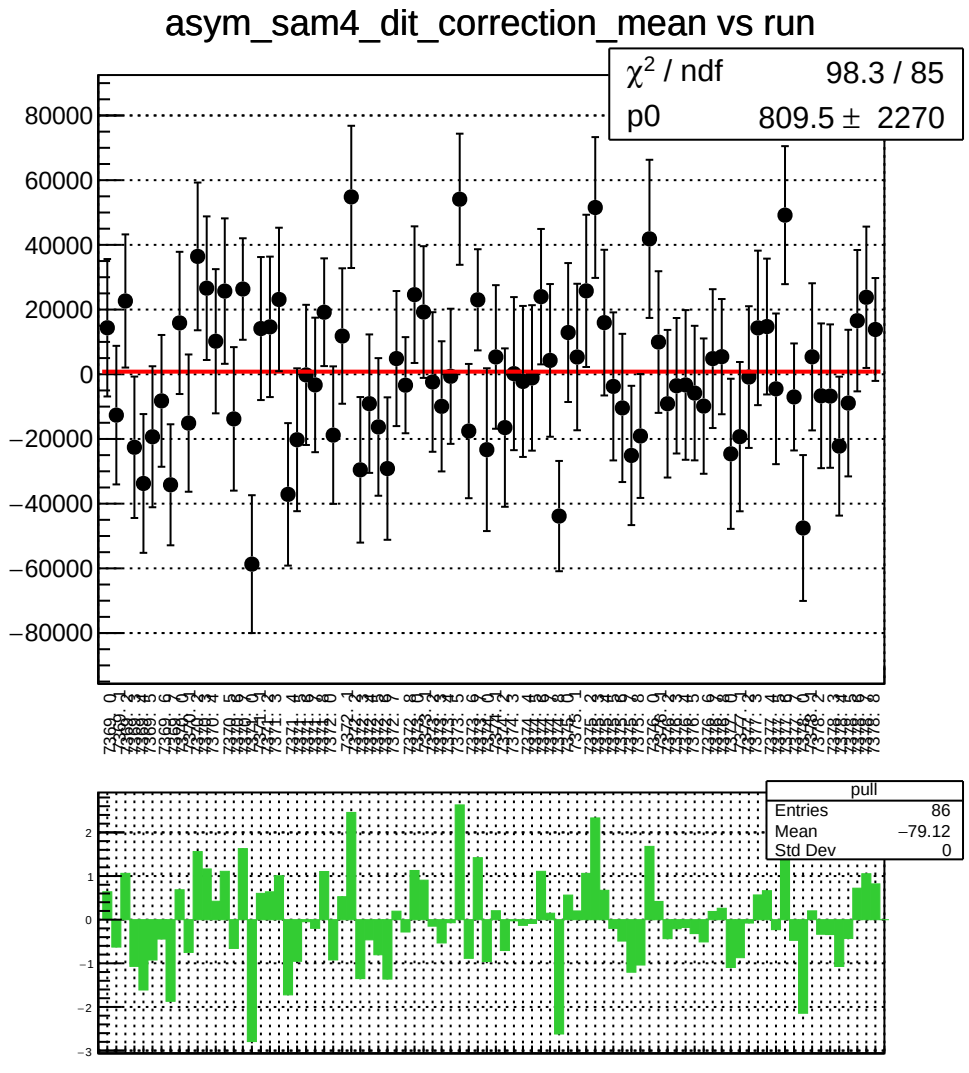

pull1D
Entries 86
Mean −0.003629
Std Dev 1.028

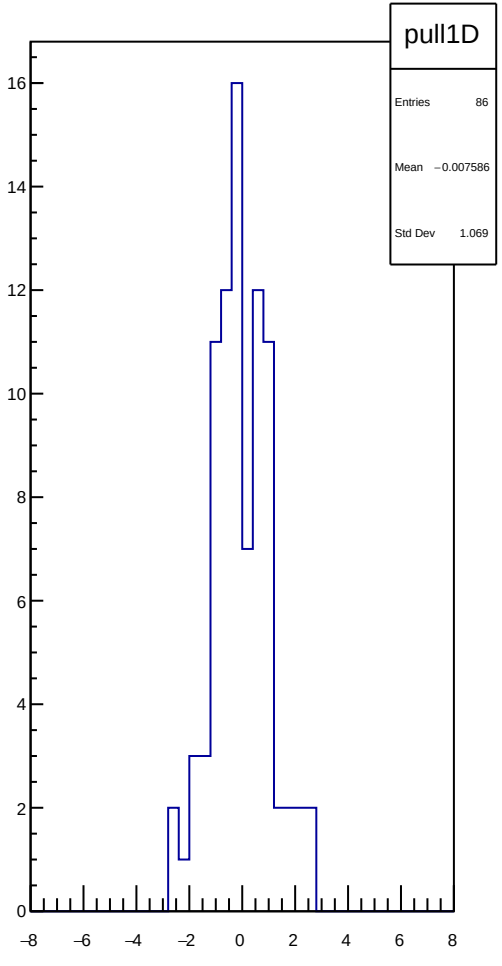

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 6177 / 85
p0 1967 ± 1.519
2400
2300
2200
2100
2000
1900
1800
1700

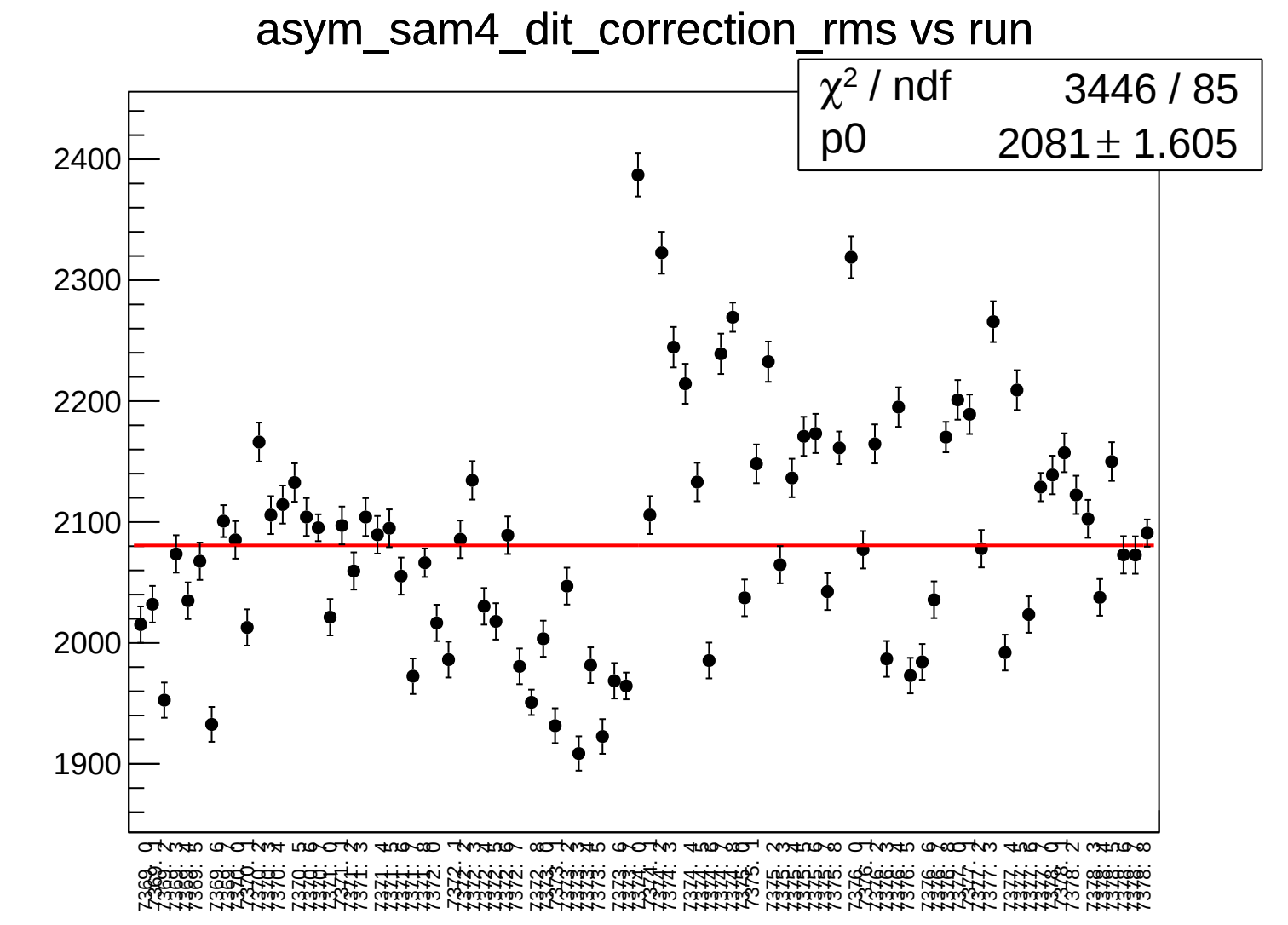

dit_asym_sam4_mean vs run
χ² / ndf 114.5 / 85
p0 1104 ± 627.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 221.8
Std Dev 0
3
2
1
0
−1
−2

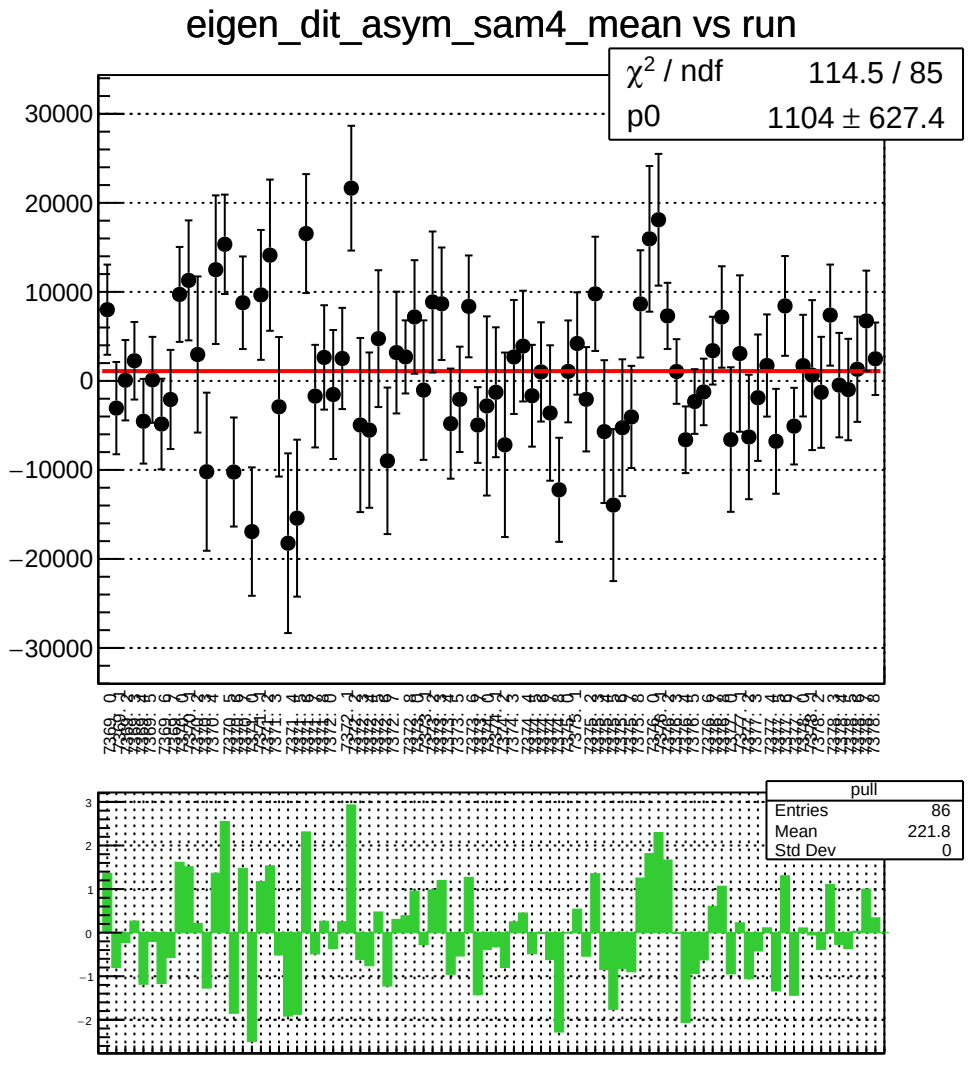

pull1D
Entries 86
Mean −0.006214
Std Dev 1.154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

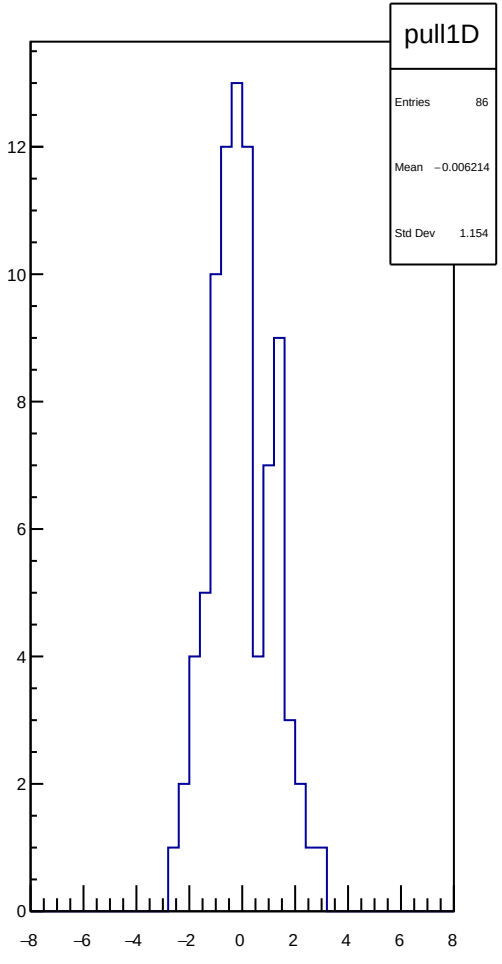

dit_asym_sam4_rms vs run
χ² / ndf 1e+05 / 85
p0 558.4 ± 0.4436
1000
900
800
700
600
500
400
300

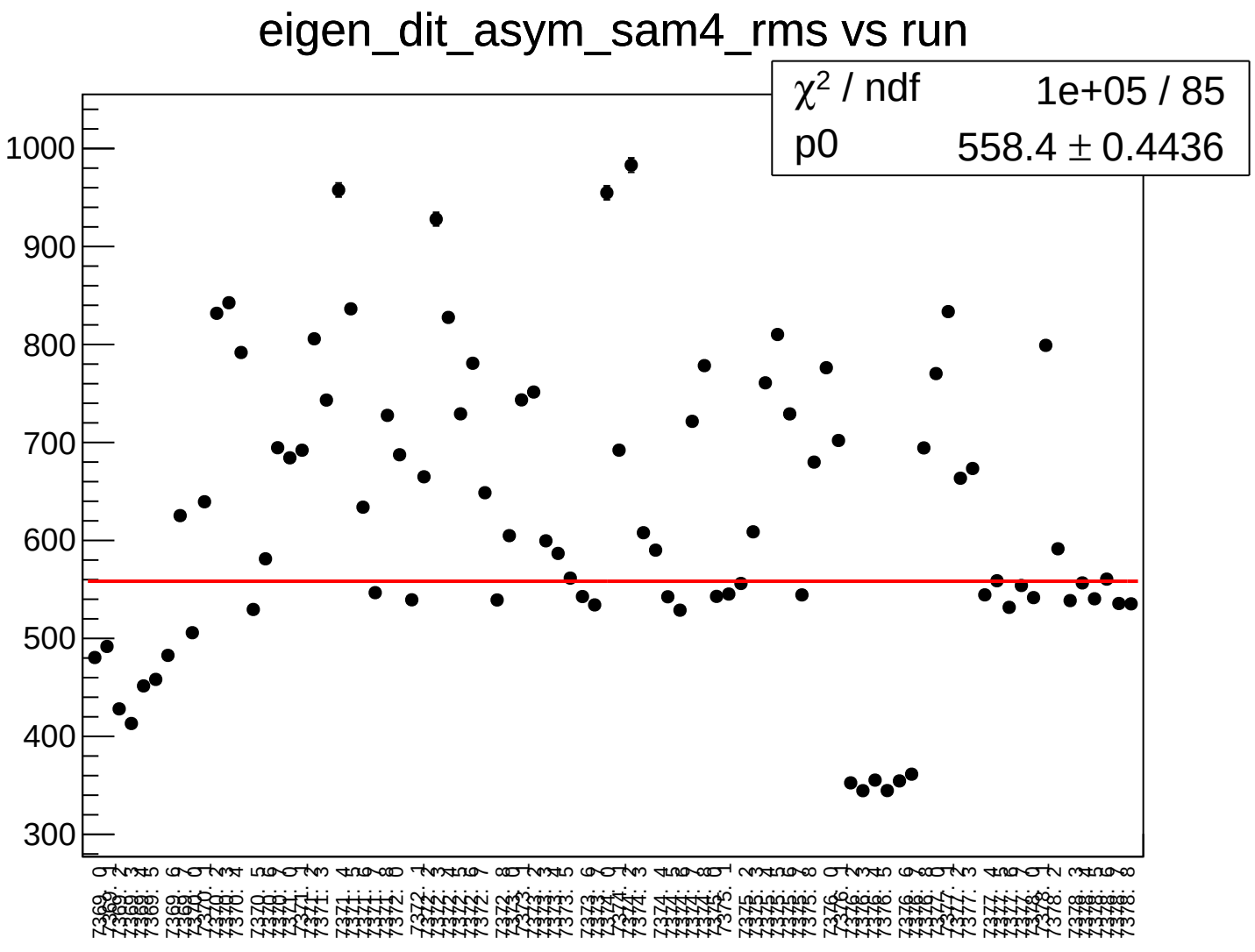

asym_sam4_dit_correction_mean vs run
χ² / ndf 98.3 / 85
p0 809.5 ± 2270
pull
Entries 86
Mean −79.12
Std Dev 0

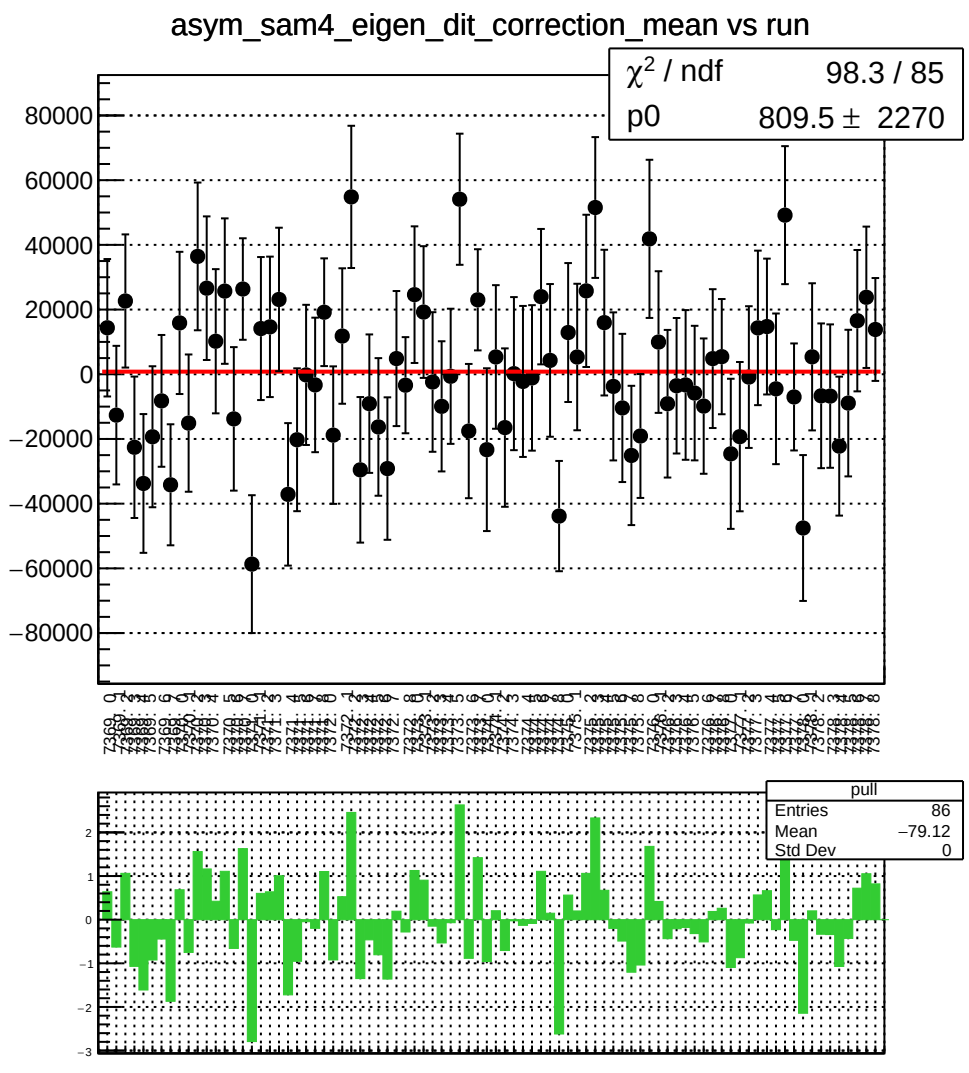

pull1D
Entries 86
Mean −0.007586
Std Dev 1.069

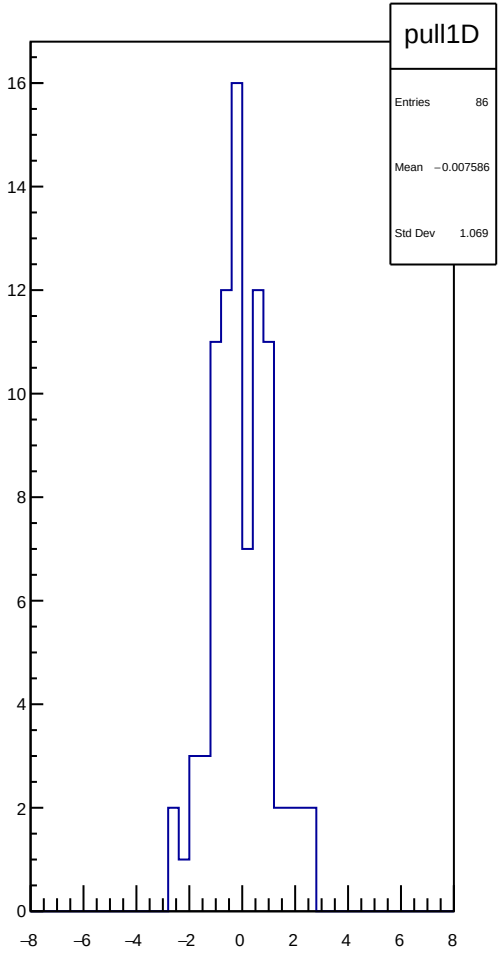

asym_sam4_dit_correction_rms vs run
χ² / ndf 3446 / 85
p0 2081 ± 1.605
2400
2300
2200
2100
2000
1900

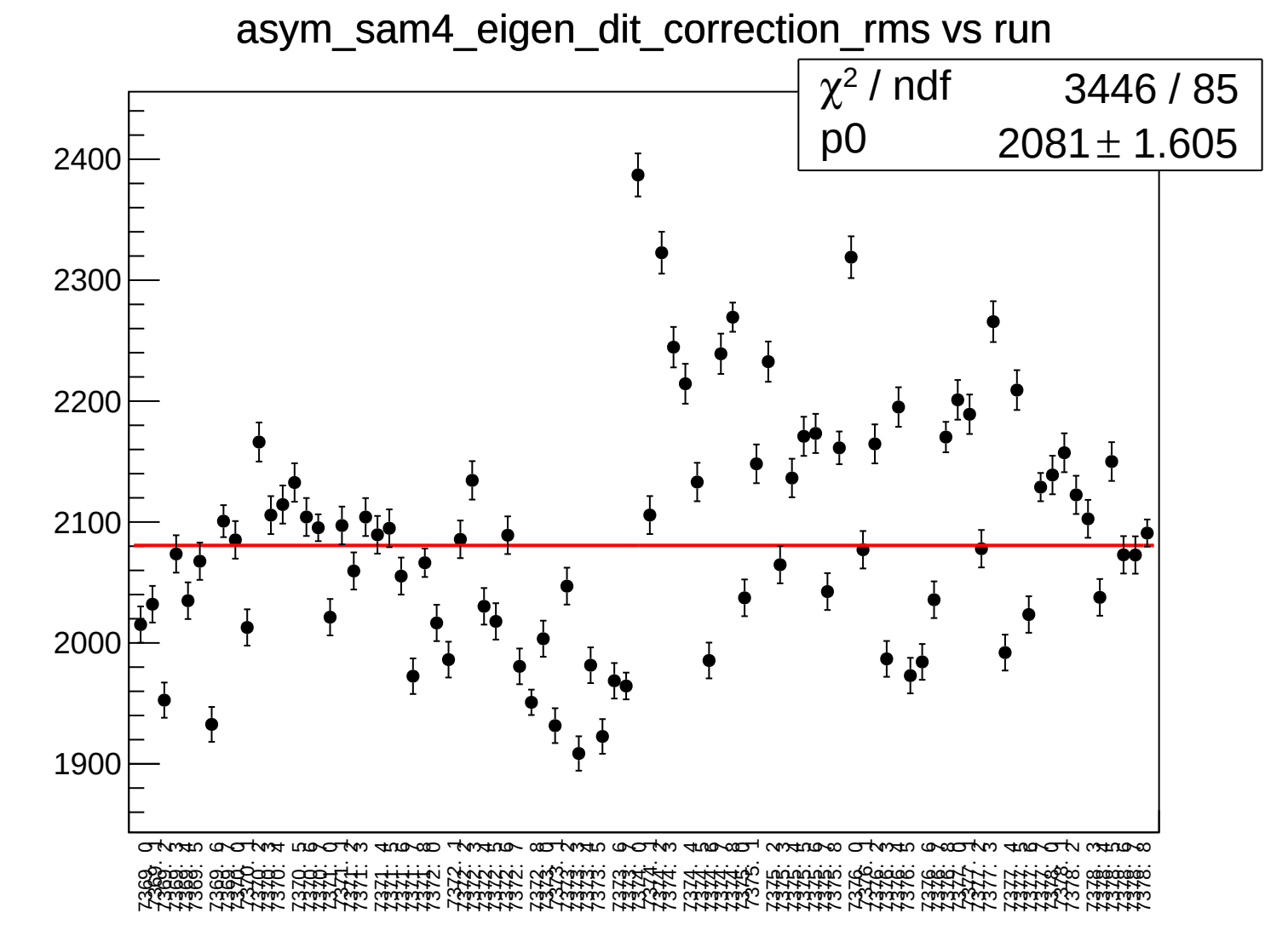

eigen_dit_asym_sam4_mean vs run
χ² / ndf 114.5 / 85
p0 1104 ± 627.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 221.8
Std Dev 0
3
2
1
0
−1
−2

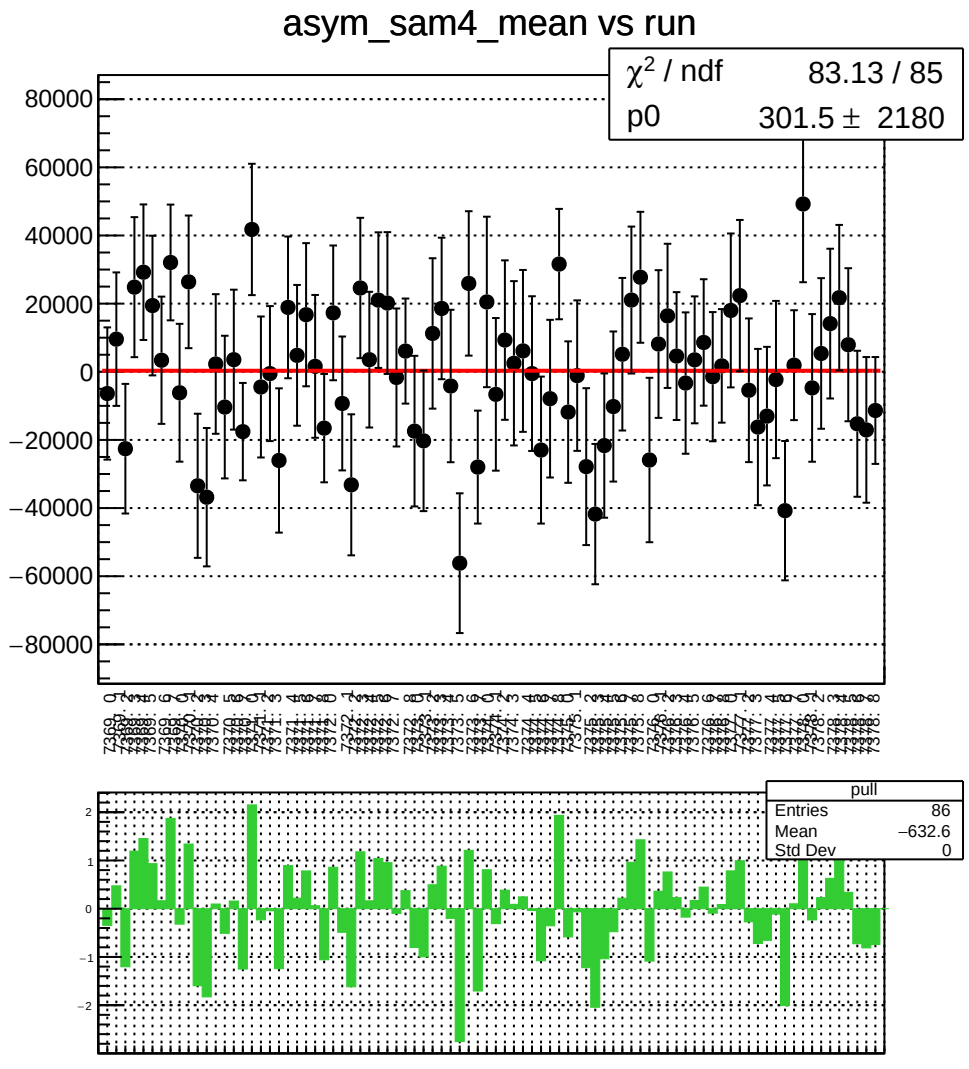

pull1D
Entries 86
Mean −0.006214
Std Dev 1.154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

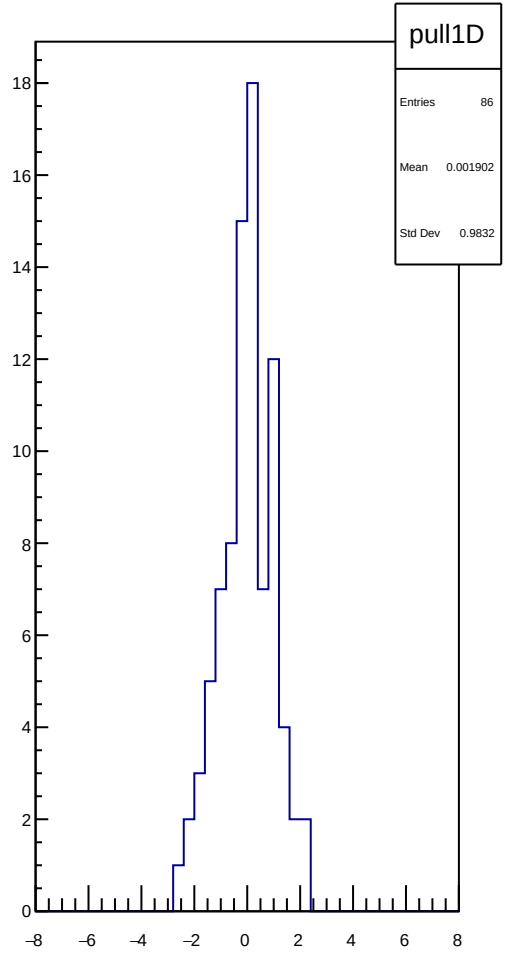

eigen_dit_asym_sam4_rms vs run
χ² / ndf 1e+05 / 85
p0 558.4 ± 0.4436
1000
900
800
700
600
500
400
300

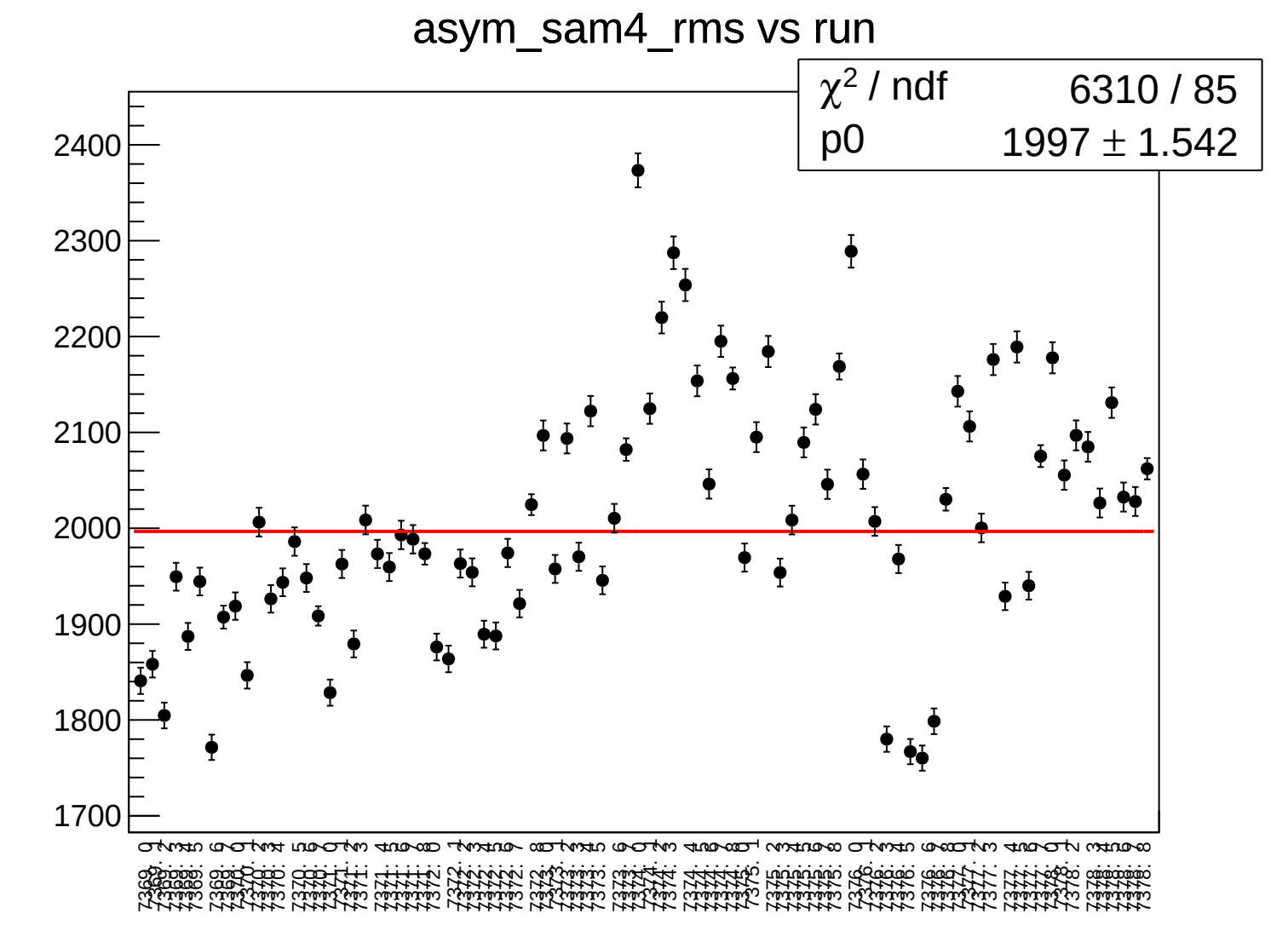

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 98.3 / 85
p0 809.5 ± 2270
pull
Entries 86
Mean −79.12
Std Dev 0

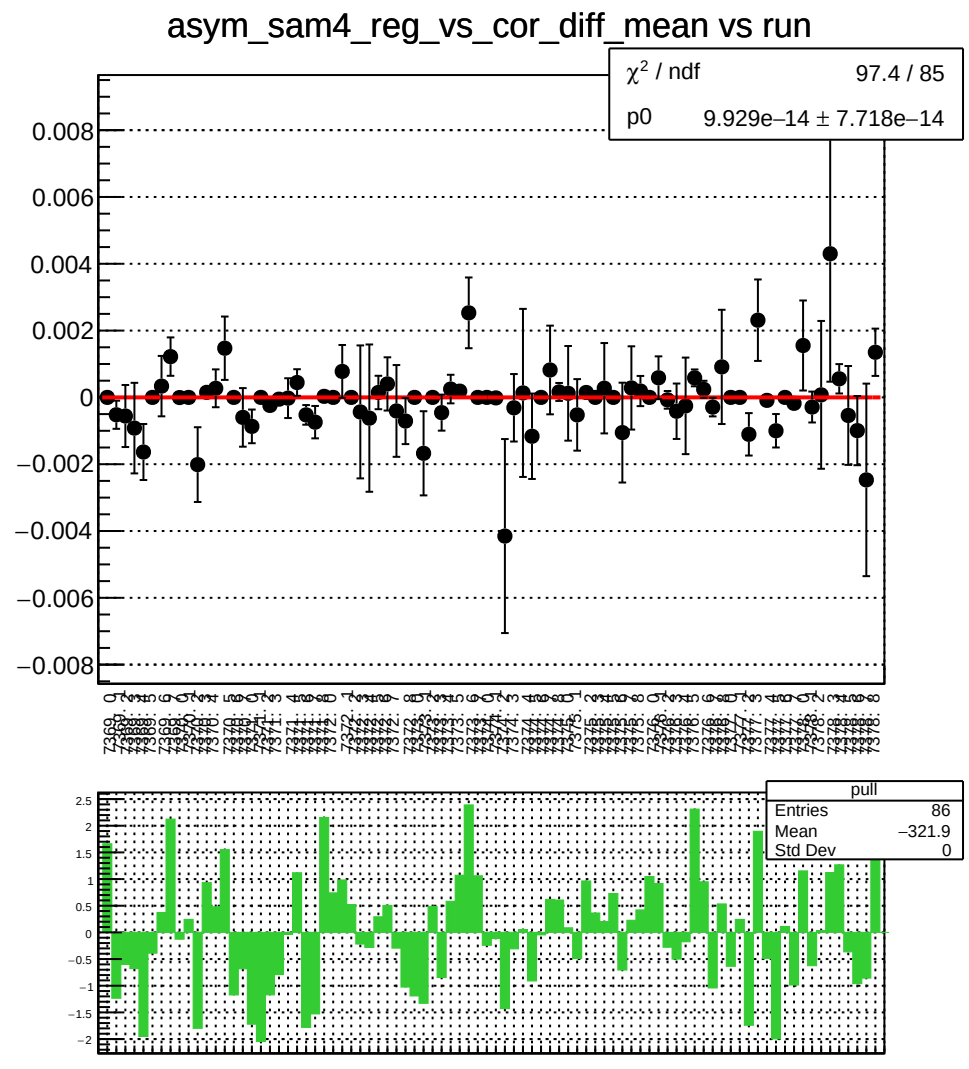

pull1D
Entries 86
Mean −0.007586
Std Dev 1.069

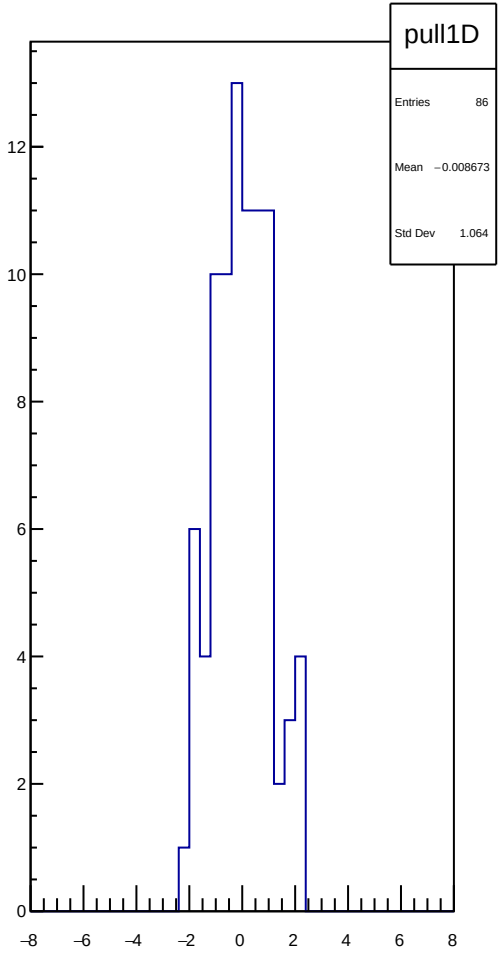

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 3446 / 85
p0 2081 ± 1.605
2400
2300
2200
2100
2000
1900

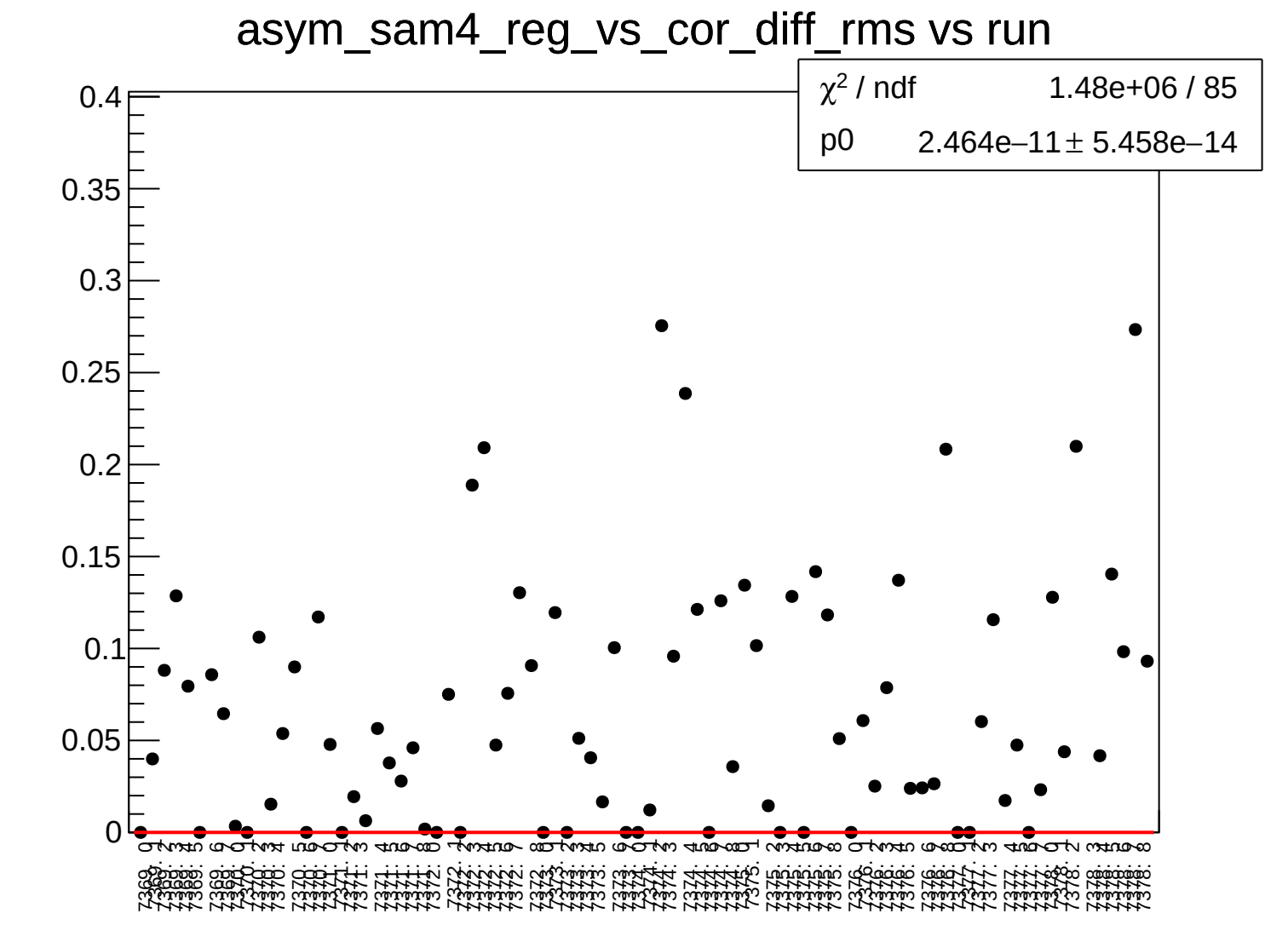

asym_sam4_mean vs run
χ² / ndf 83.13 / 85
p0 301.5 ± 2180
pull
Entries 86
Mean −632.6
Std Dev 0

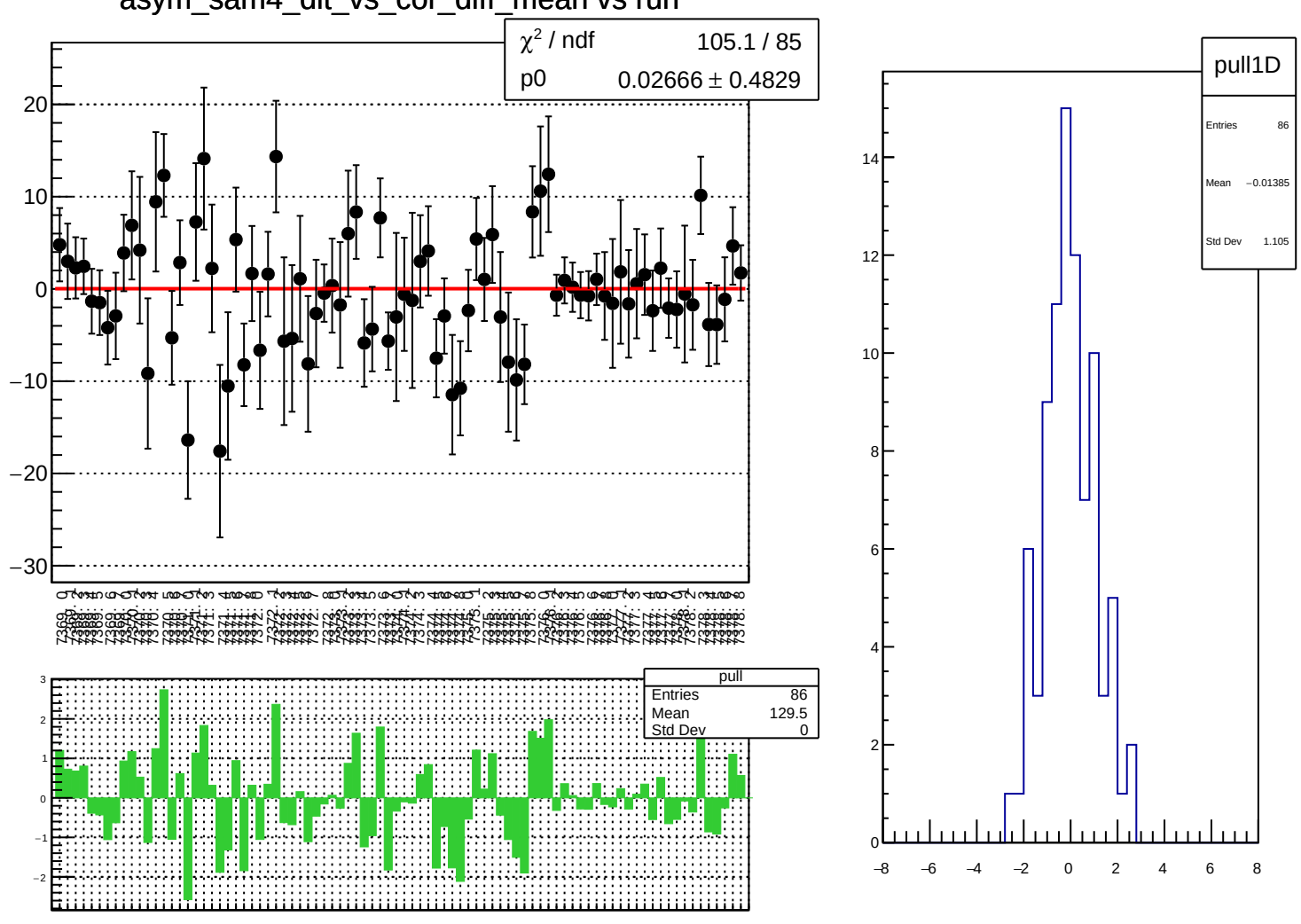

pull1D
Entries 86
Mean 0.001902
Std Dev 0.9832

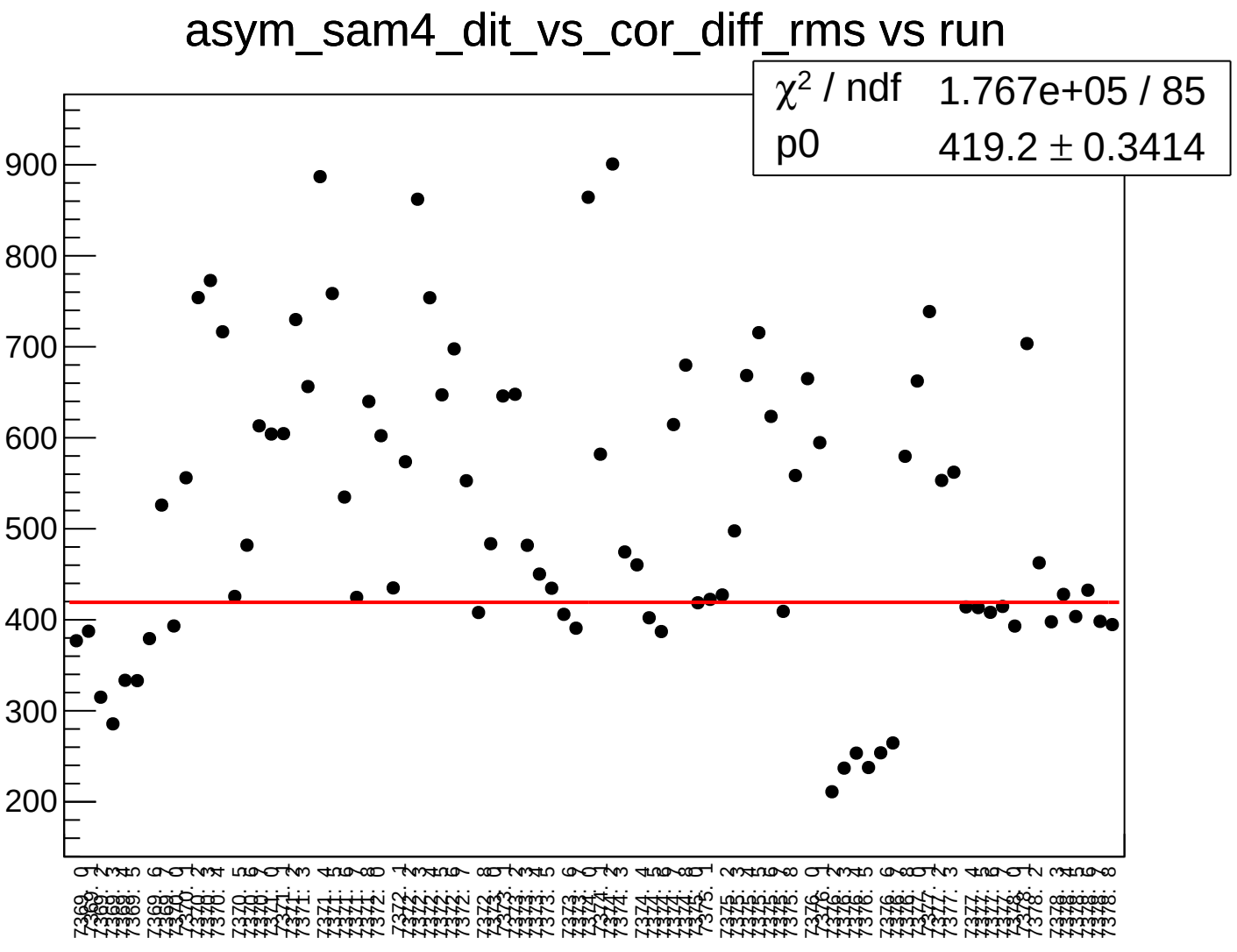

asym_sam4_rms vs run
χ^2 / ndf 6310 / 85
p0 1997 ± 1.542
2400
2300
2200
2100
2000
1900
1800
1700

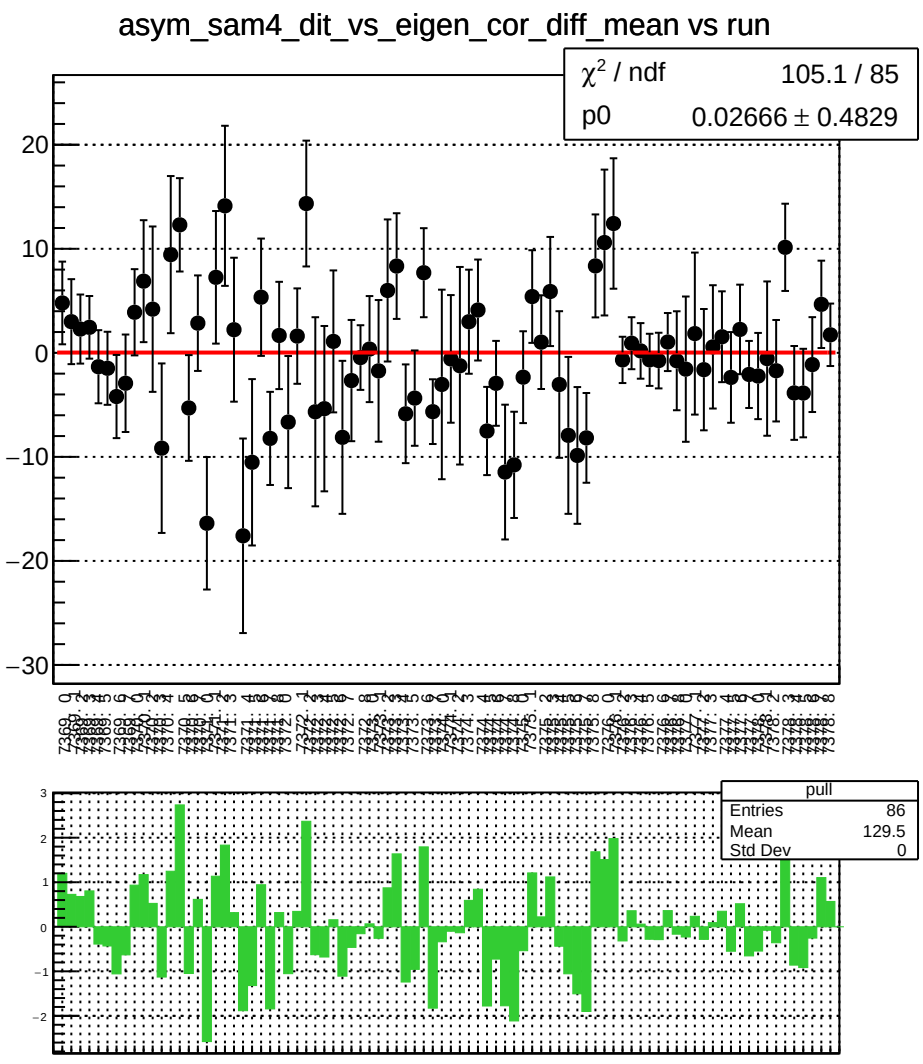

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 97.4 / 85
p0 9.929e−14 ± 7.718e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 86
Mean −321.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

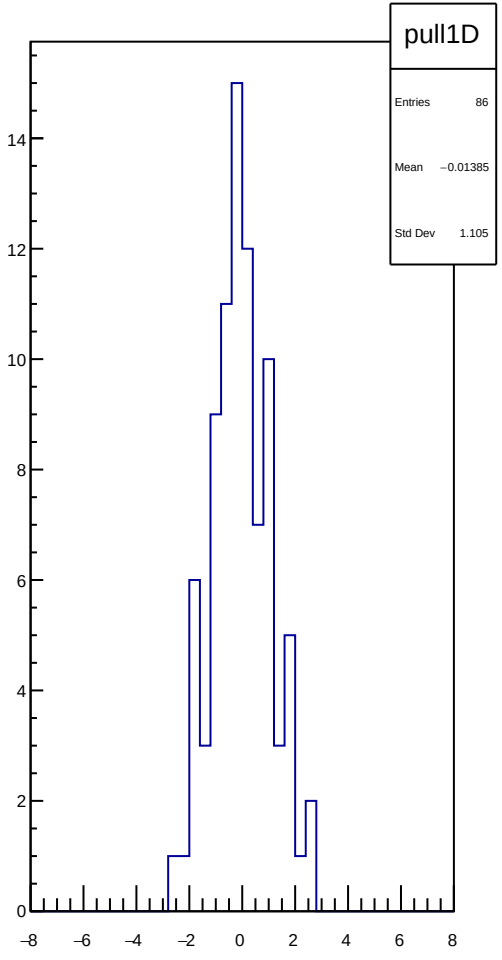

pull1D
Entries 86
Mean −0.008673
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

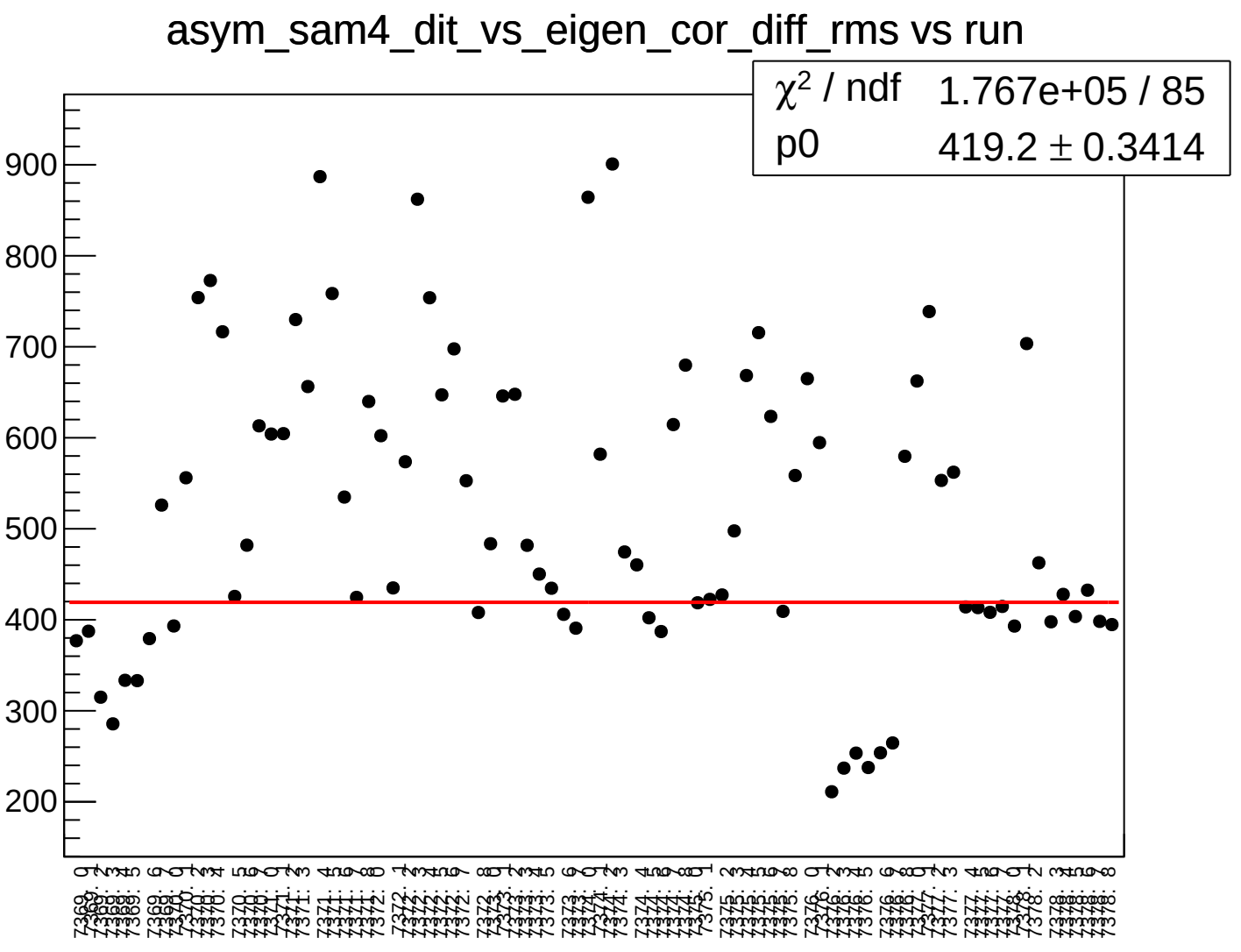

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.48e+06 / 85
p0 2.464e−11 ± 5.458e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

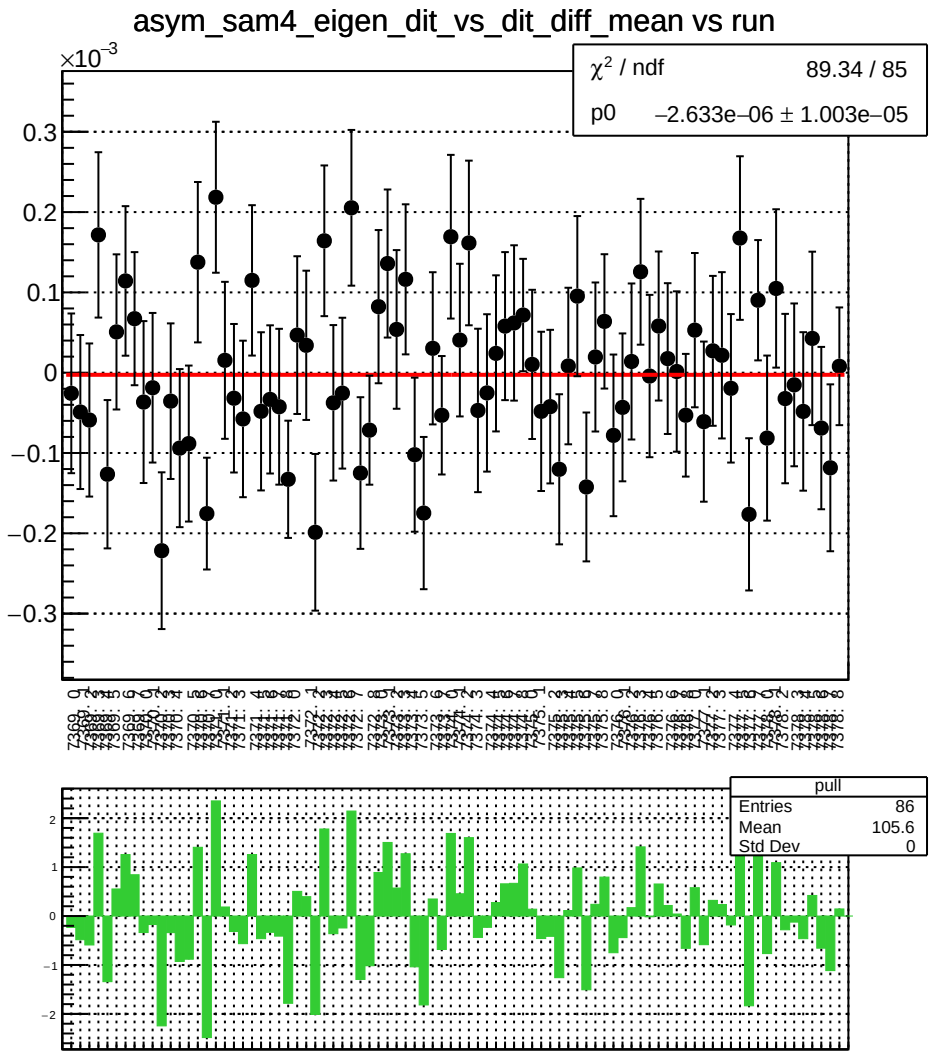

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 85
p0 0.02666 ± 0.4829
pull
Entries 86
Mean 129.5
Std Dev 0
pull1D
Entries 86
Mean −0.01385
Std Dev 1.105

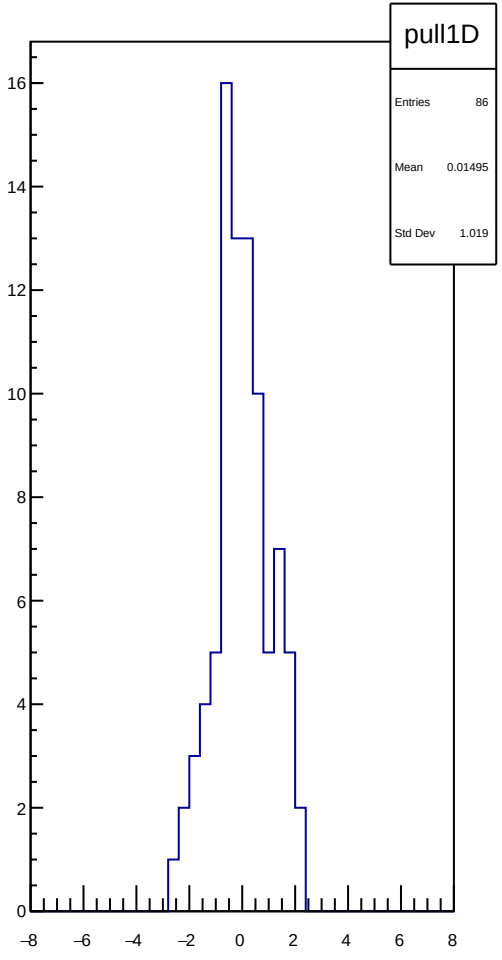

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.767e+05 / 85
p0 419.2 ± 0.3414
900
800
700
600
500
400
300
200

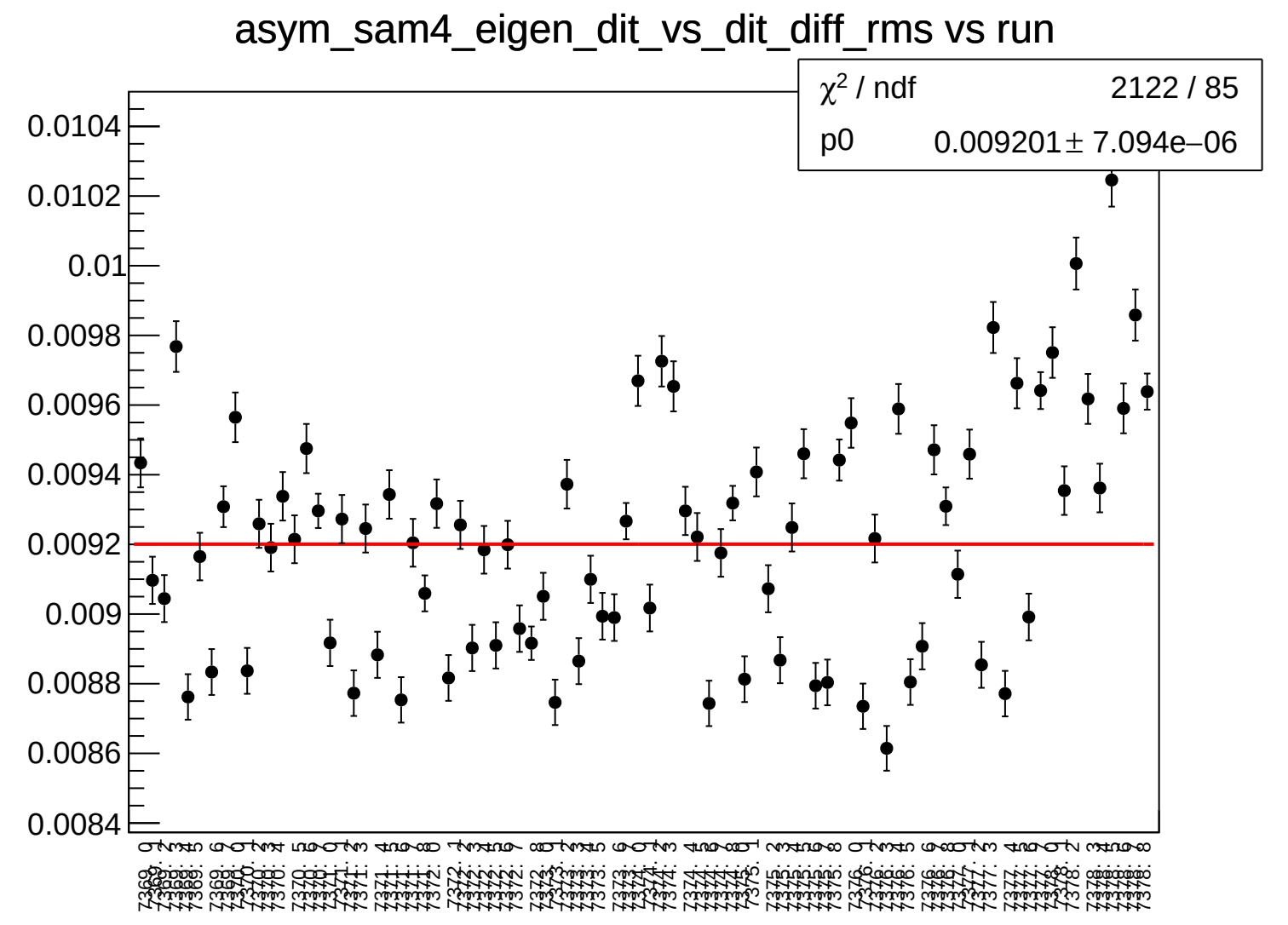

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 85
p0 0.02666 ± 0.4829
pull
Entries 86
Mean 129.5
Std Dev 0

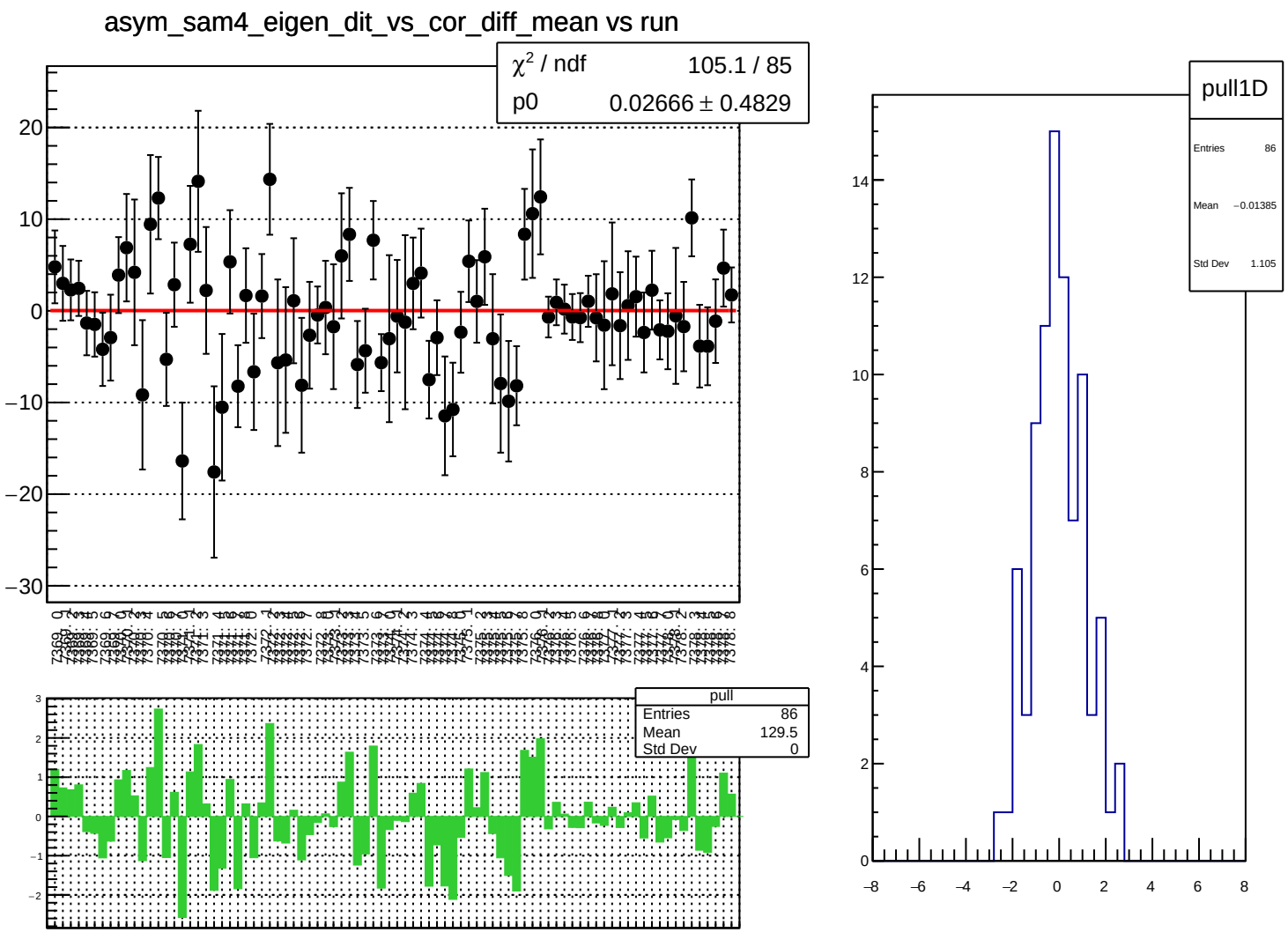

pull1D
Entries 86
Mean −0.01385
Std Dev 1.105

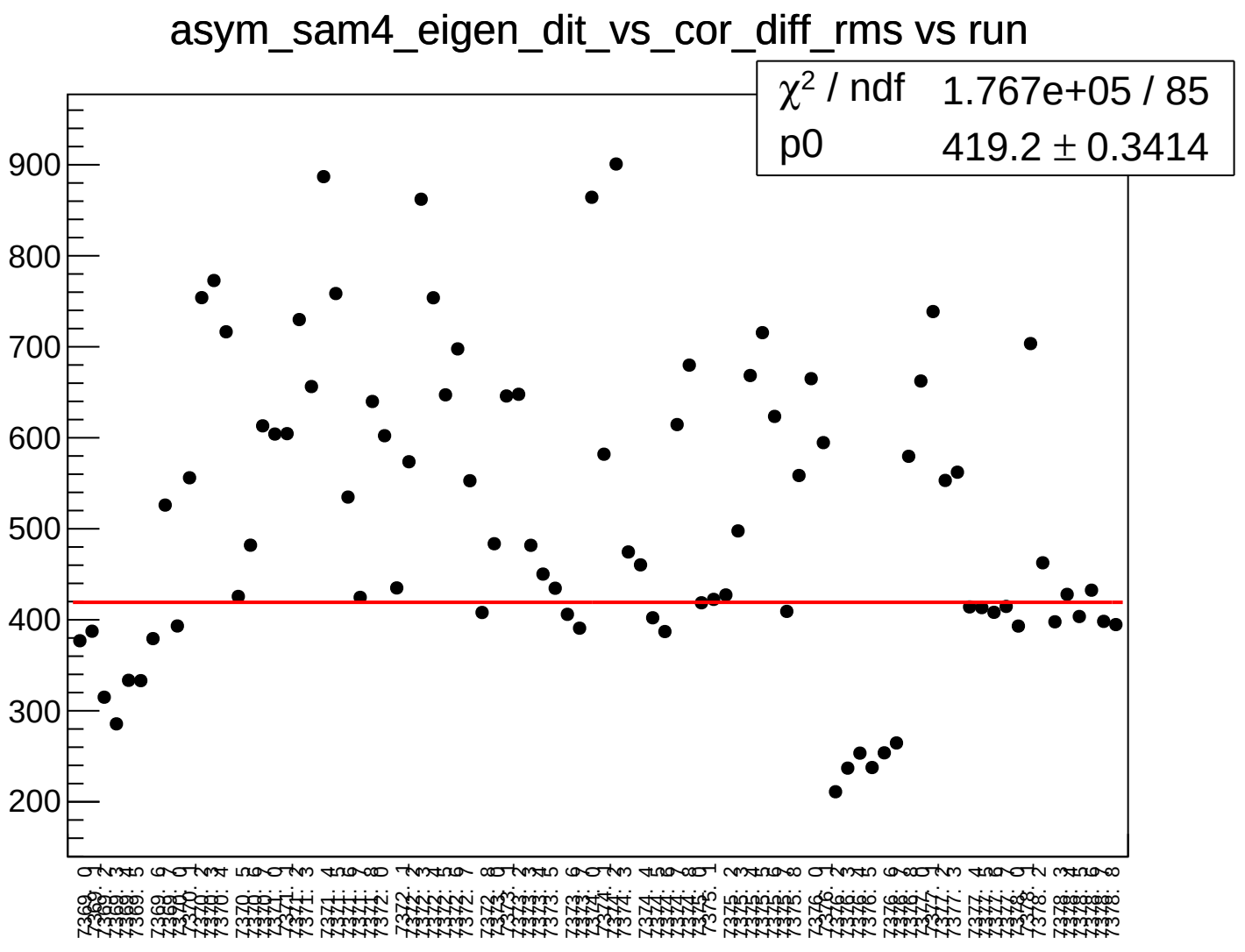

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.767e+05 / 85
p0 419.2 ± 0.3414
900
800
700
600
500
400
300
200

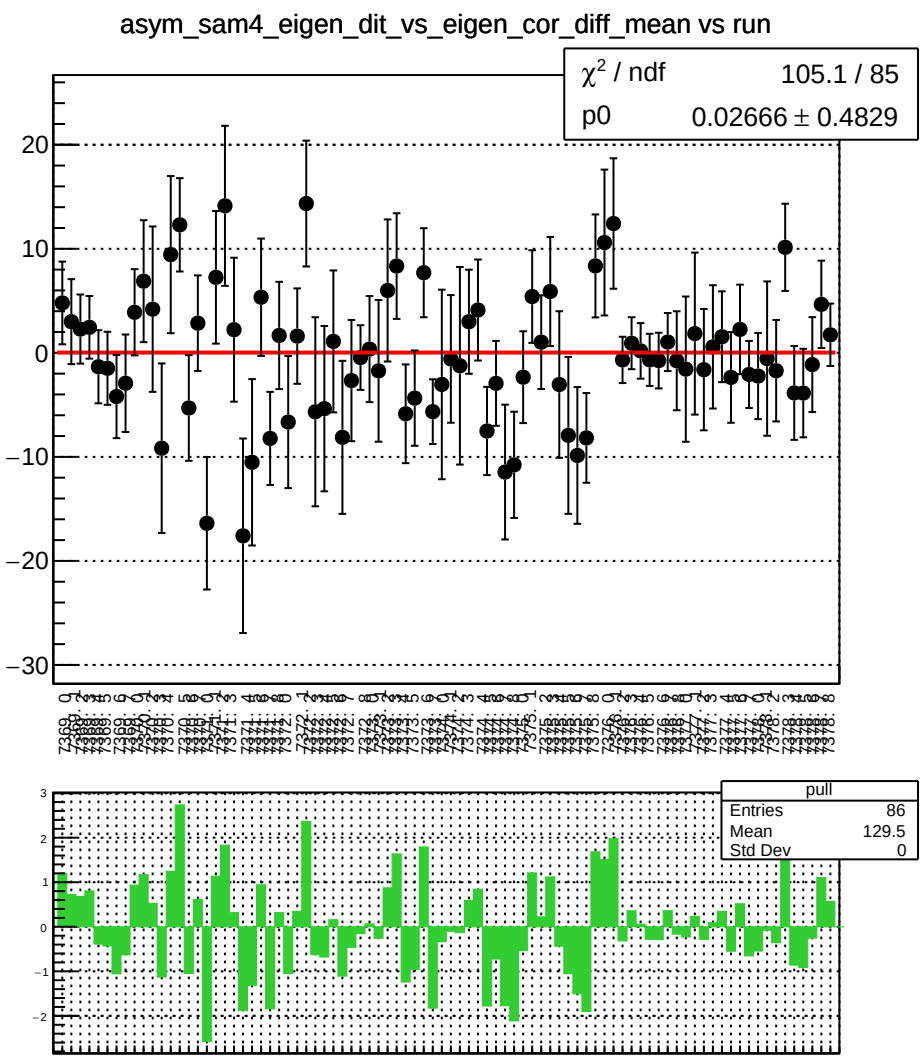

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.34 / 85
p0 −2.633e−06 ± 1.003e−05
pull
Entries 86
Mean 105.6
Std Dev 0

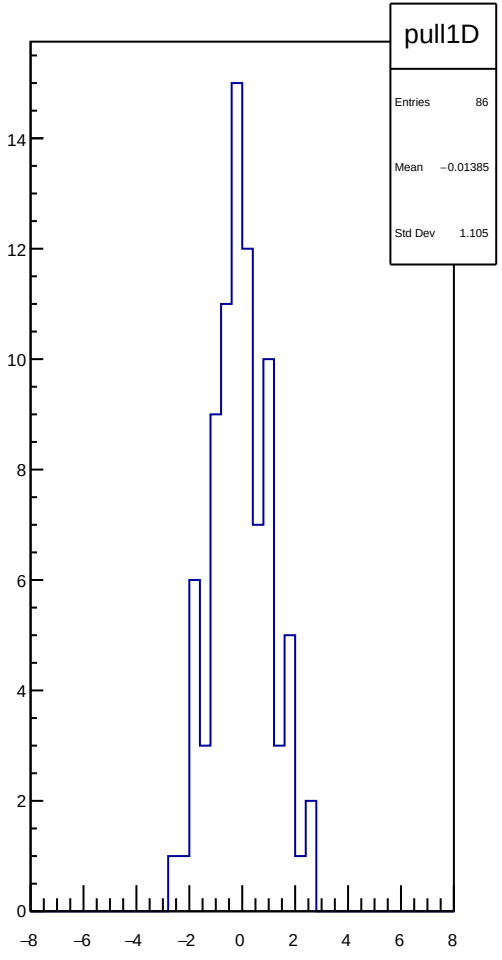

pull1D
Entries 86
Mean 0.01495
Std Dev 1.019

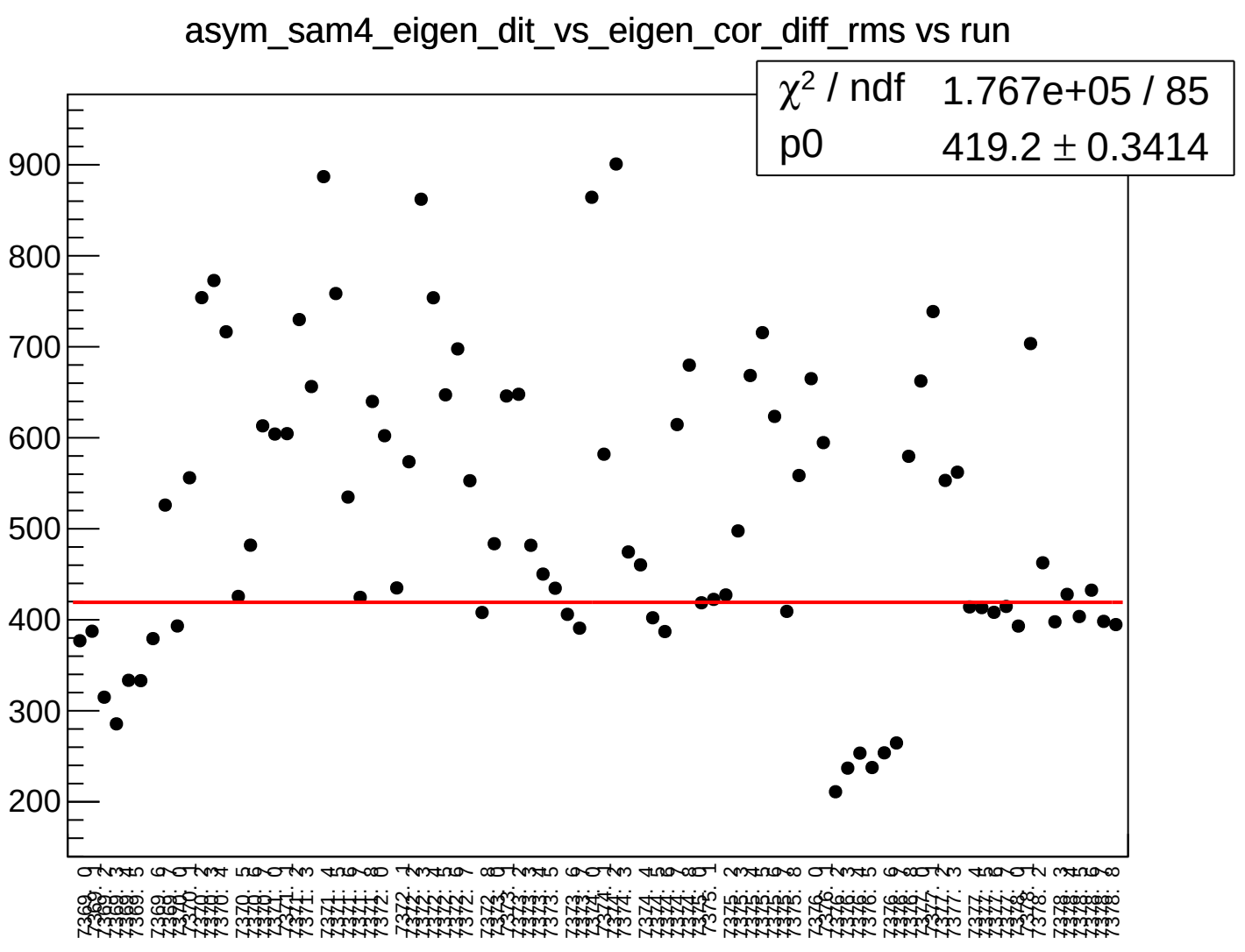

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2122 / 85
p0 0.009201 ± 7.094e−06
0.0104
0.0102
0.01
0.0098
0.0096
0.0094
0.0092
0.009
0.0088
0.0086
0.0084

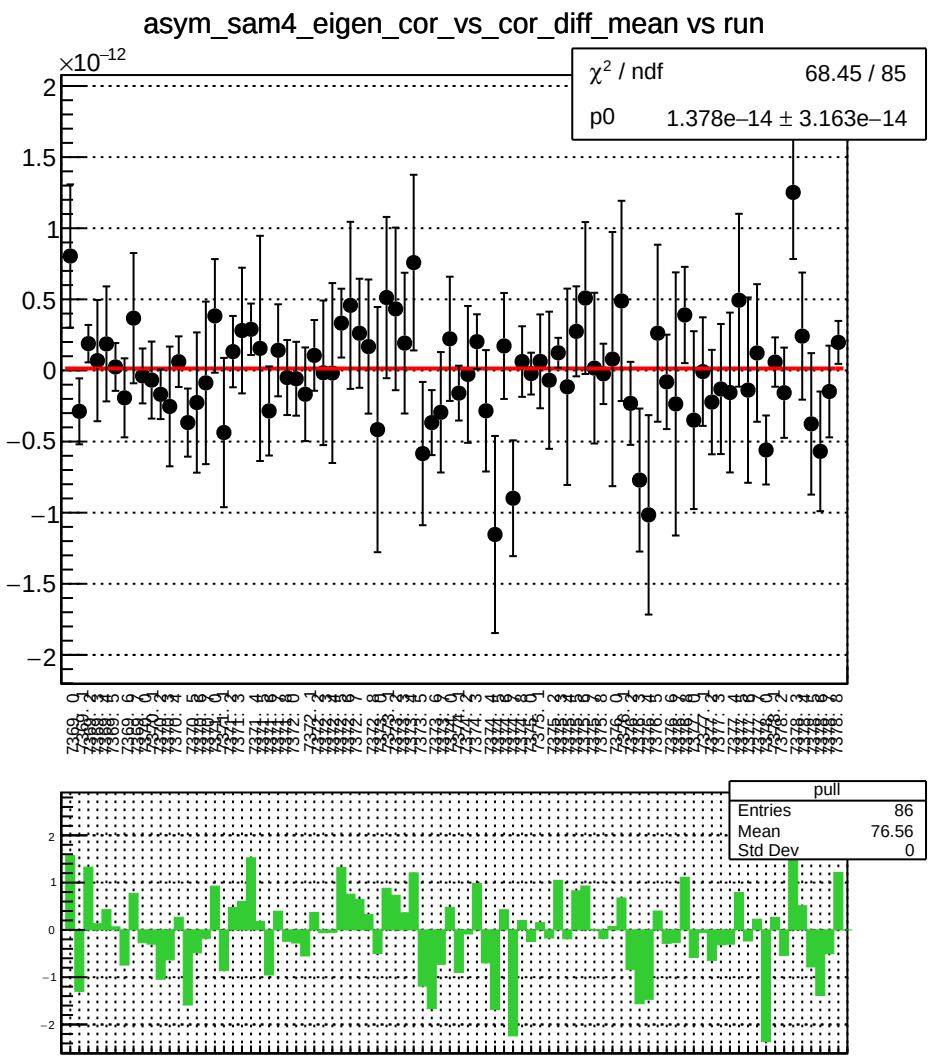

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 85
p0 0.02666 ± 0.4829
pull
Entries 86
Mean 129.5
Std Dev 0
pull1D
Entries 86
Mean −0.01385
Std Dev 1.105

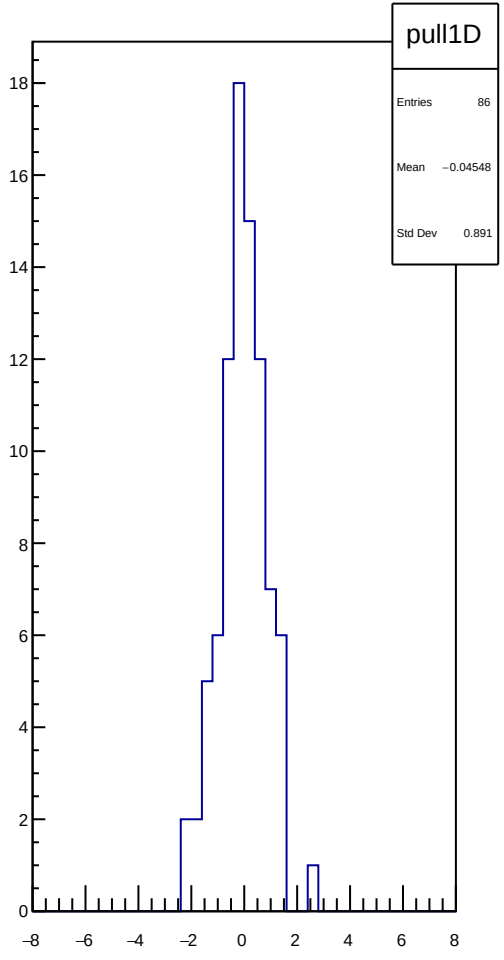

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.767e+05 / 85
p0 419.2 ± 0.3414
900
800
700
600
500
400
300
200

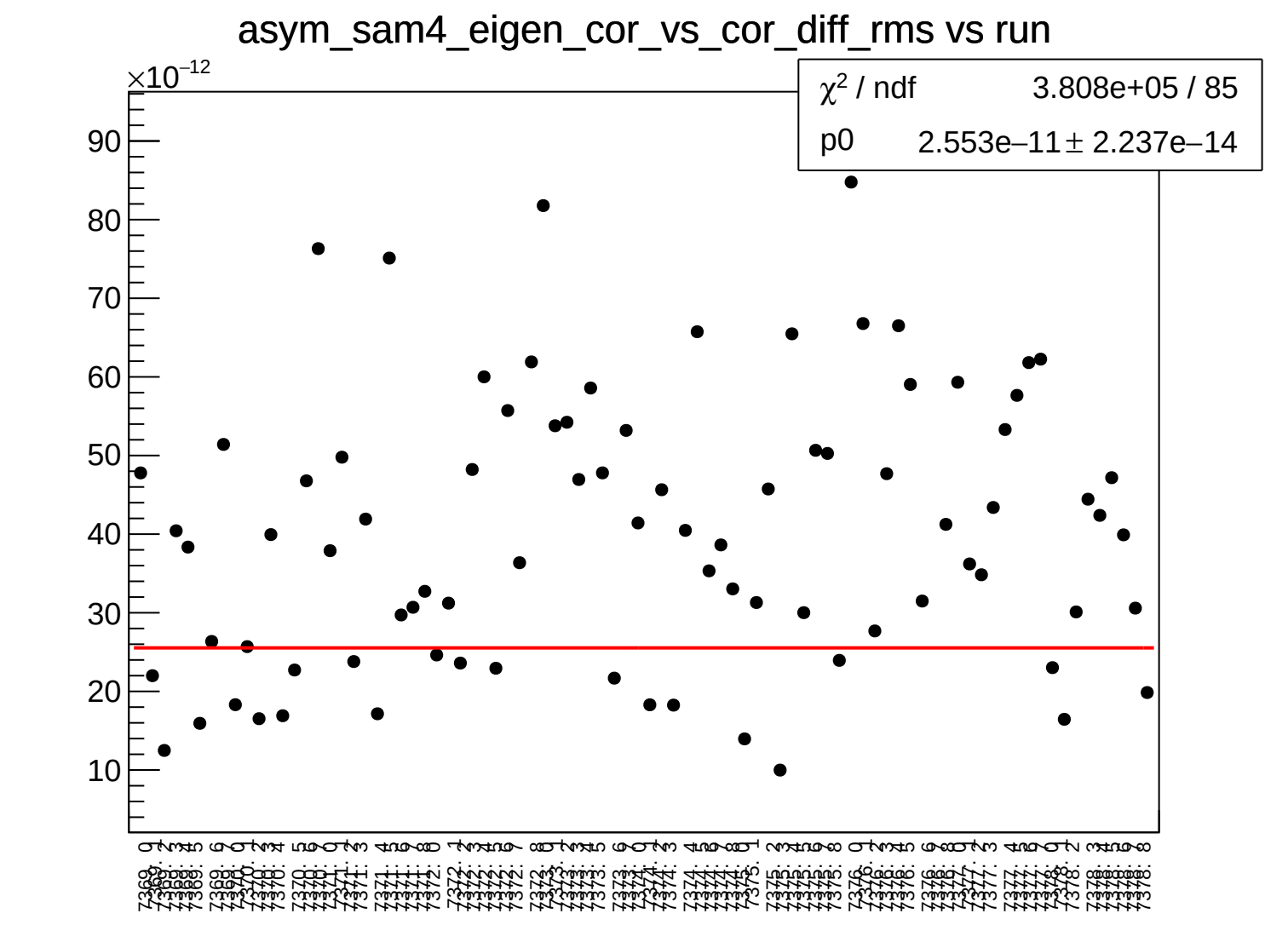

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 85
p0 0.02666 ± 0.4829
pull
Entries 86
Mean 129.5
Std Dev 0

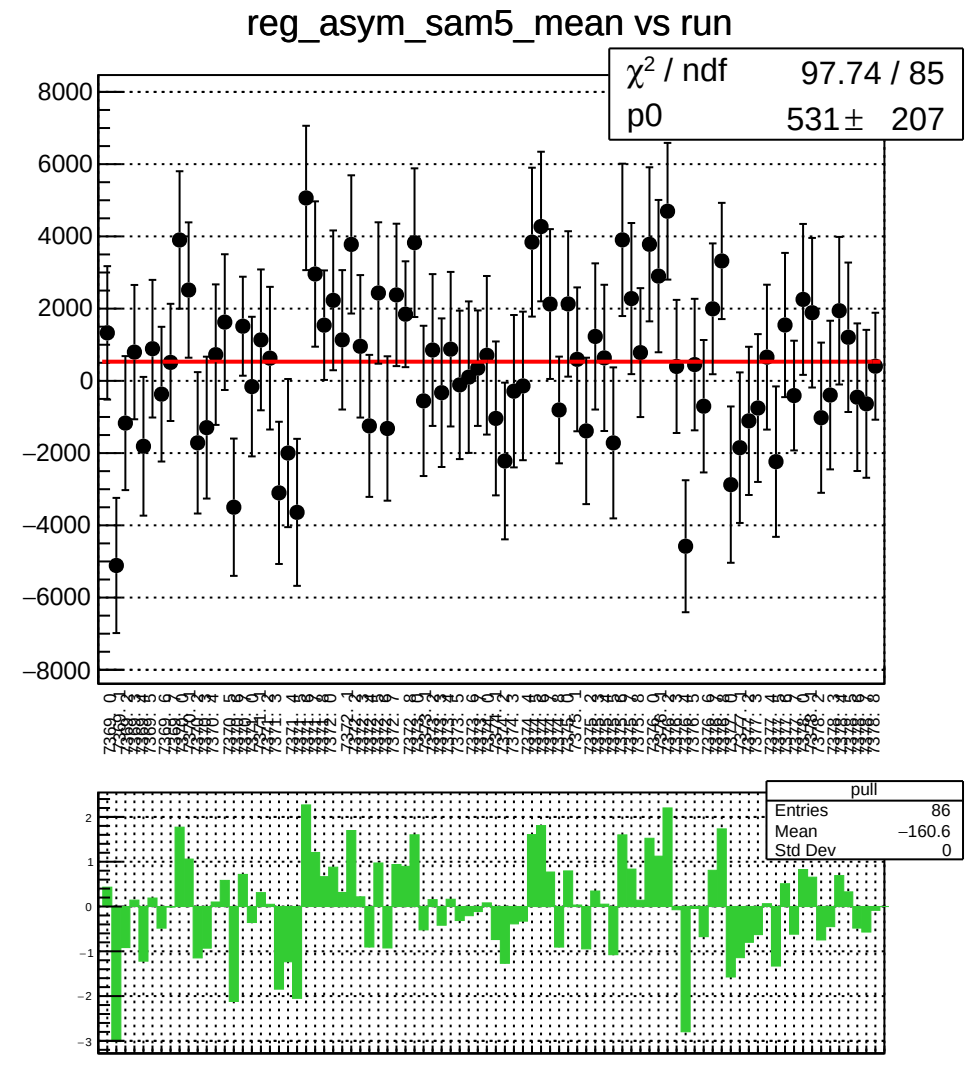

pull1D
Entries 86
Mean −0.01385
Std Dev 1.105

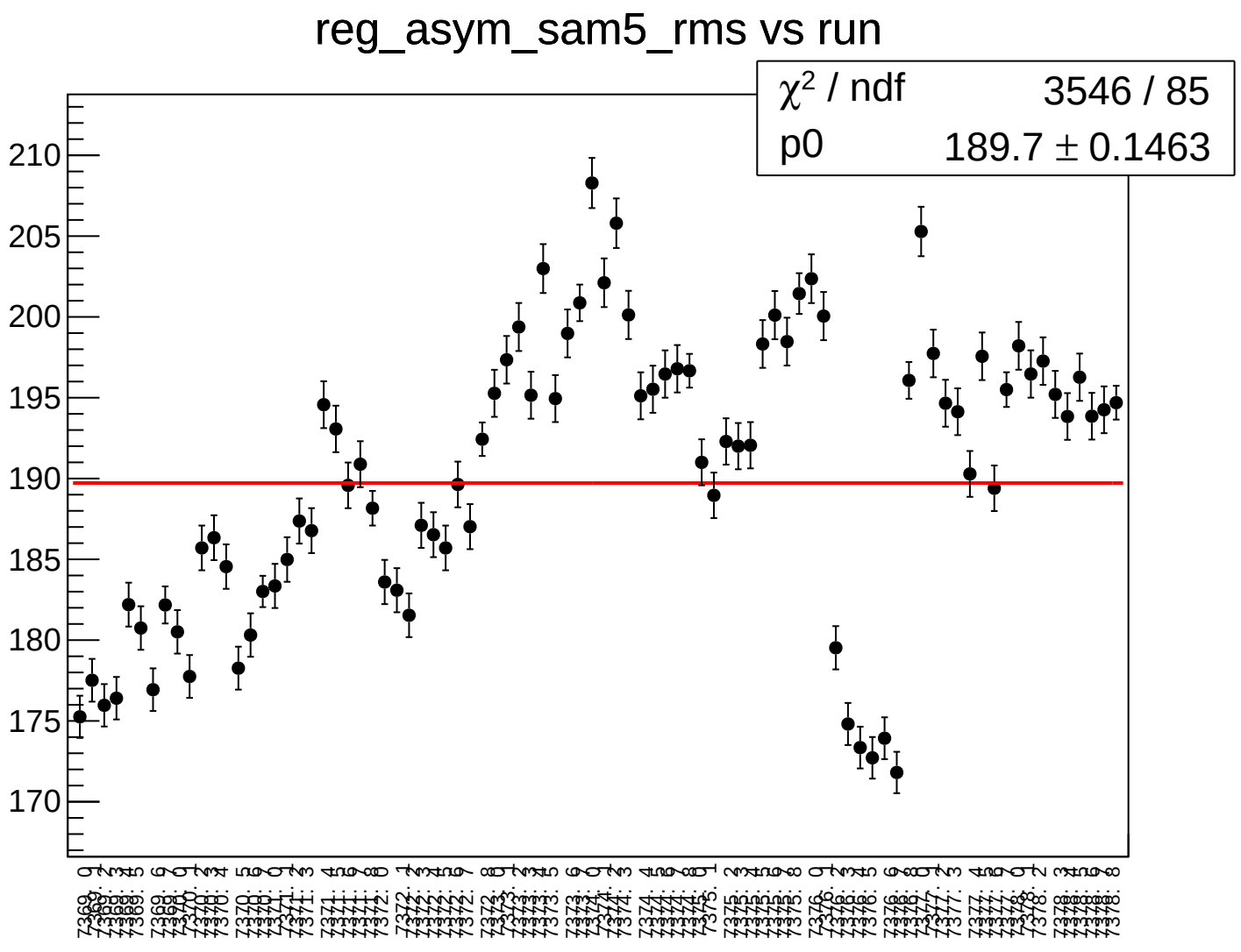

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.767e+05 / 85
p0 419.2 ± 0.3414
900
800
700
600
500
400
300
200

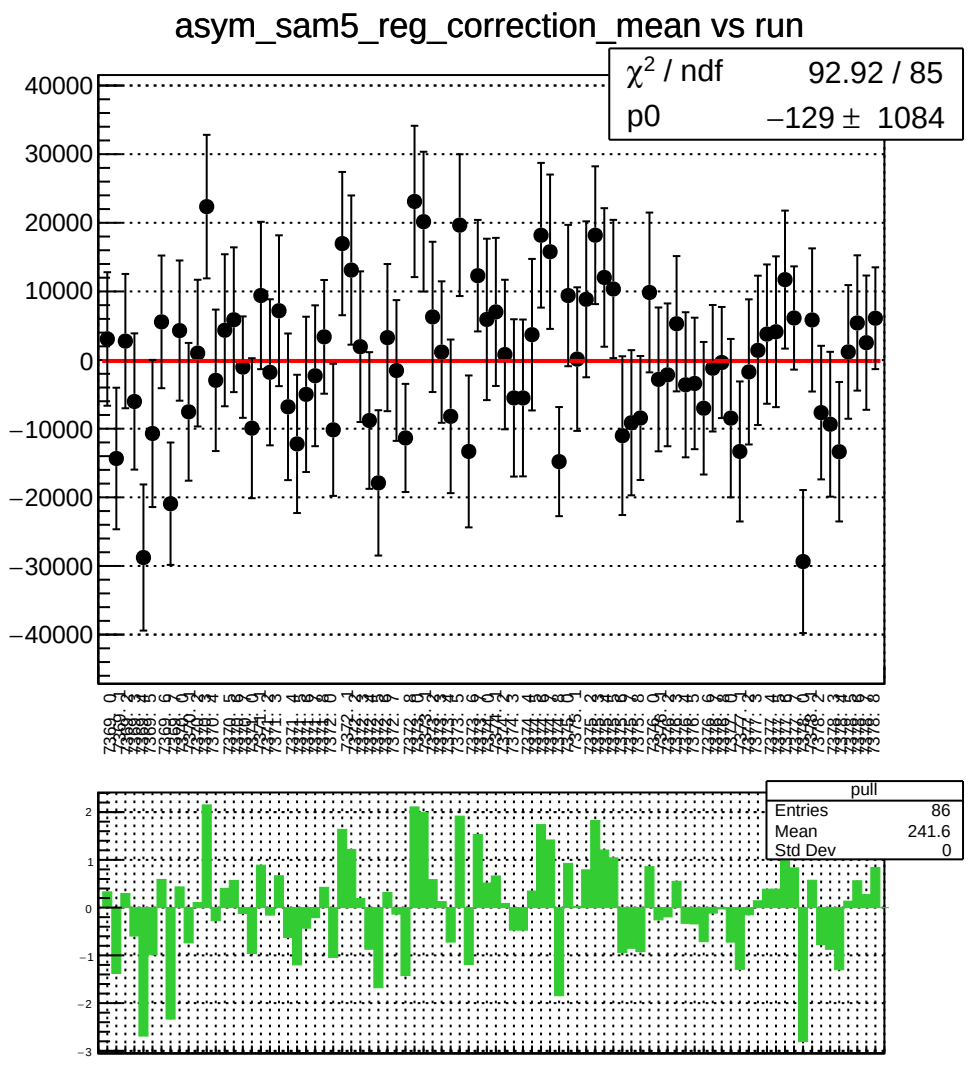

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.45 / 85
p0 1.378e−14 ± 3.163e−14
pull
Entries 86
Mean 76.56
Std Dev 0

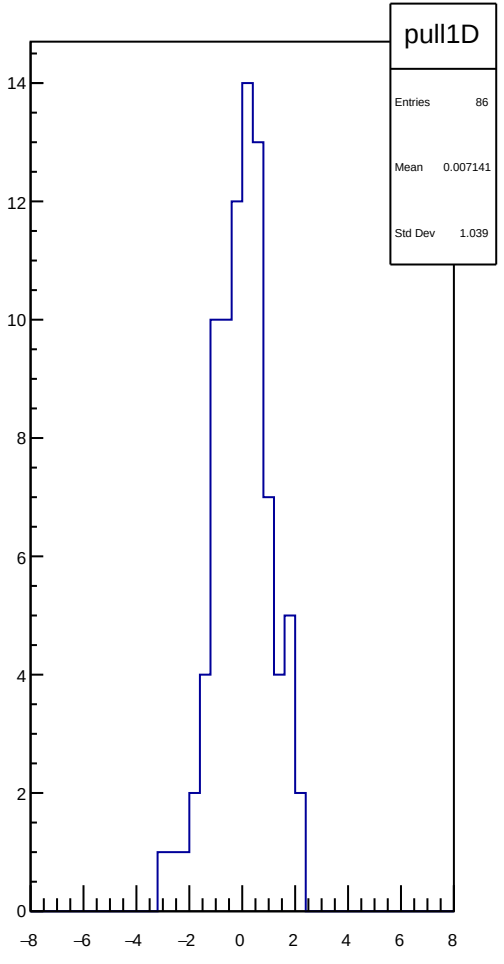

pull1D
Entries 86
Mean −0.04548
Std Dev 0.891

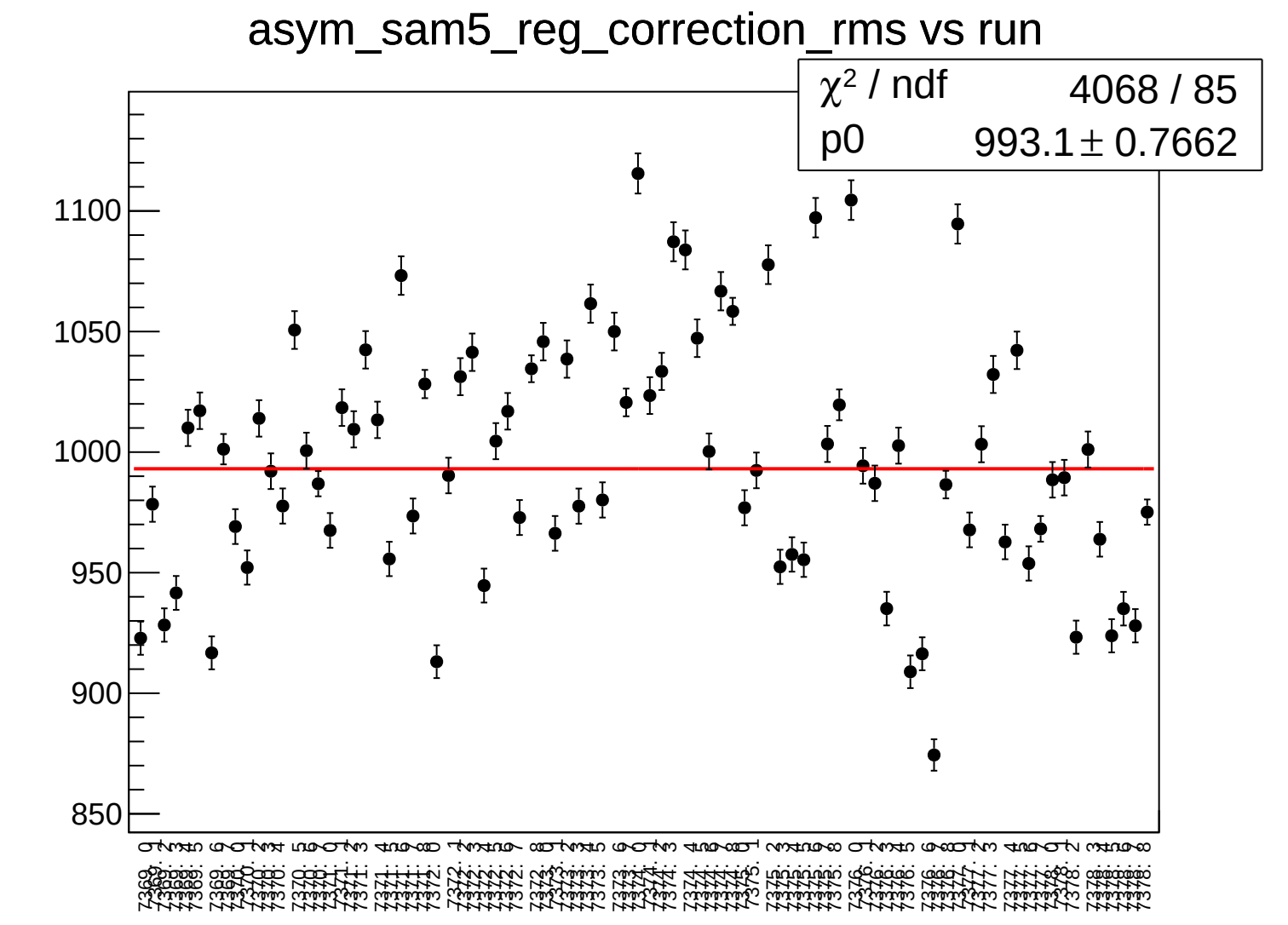

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.808e+05 / 85
p0 2.553e−11 ± 2.237e−14
90
80
70
60
50
40
30
20
10

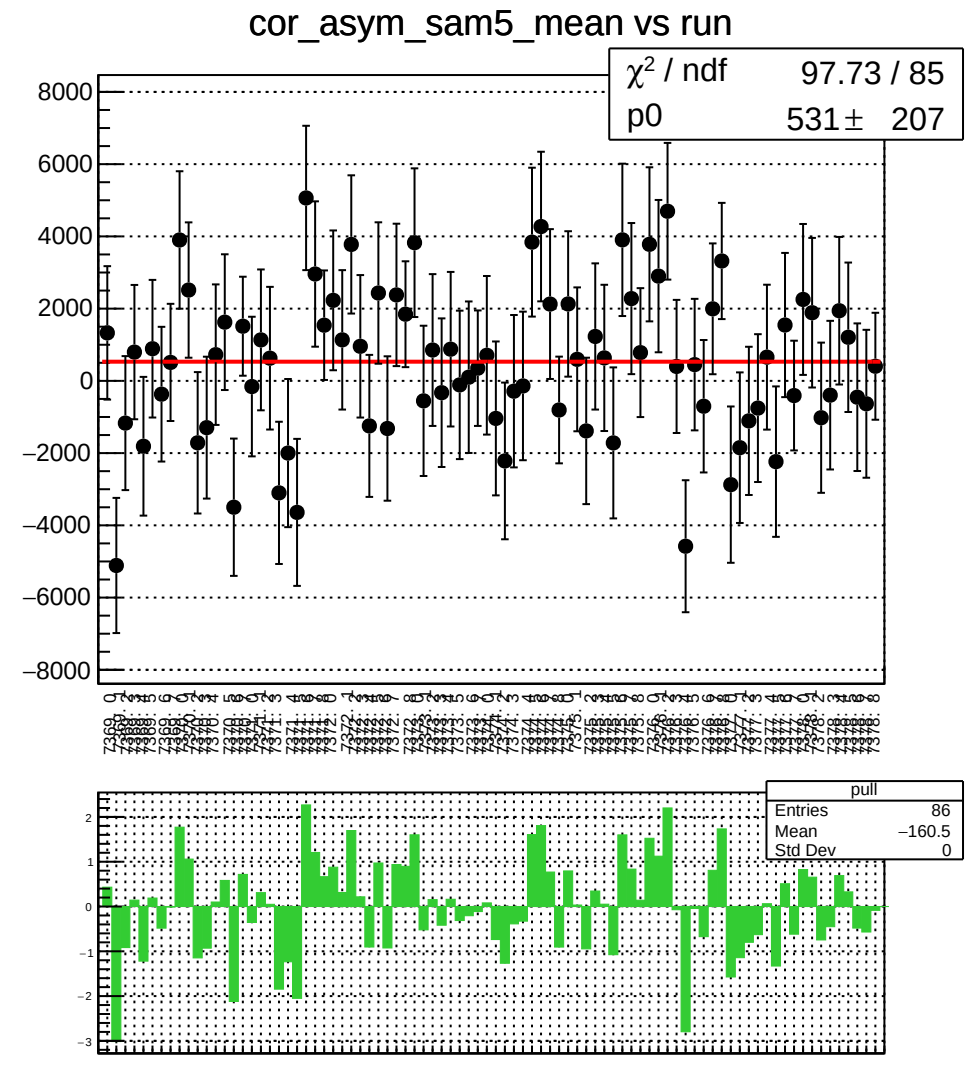

reg_asym_sam5_mean vs run
χ² / ndf 97.74 / 85
p0 531 ± 207
pull
Entries 86
Mean −160.6
Std Dev 0
pull1D
Entries 86
Mean −0.006249
Std Dev 1.066

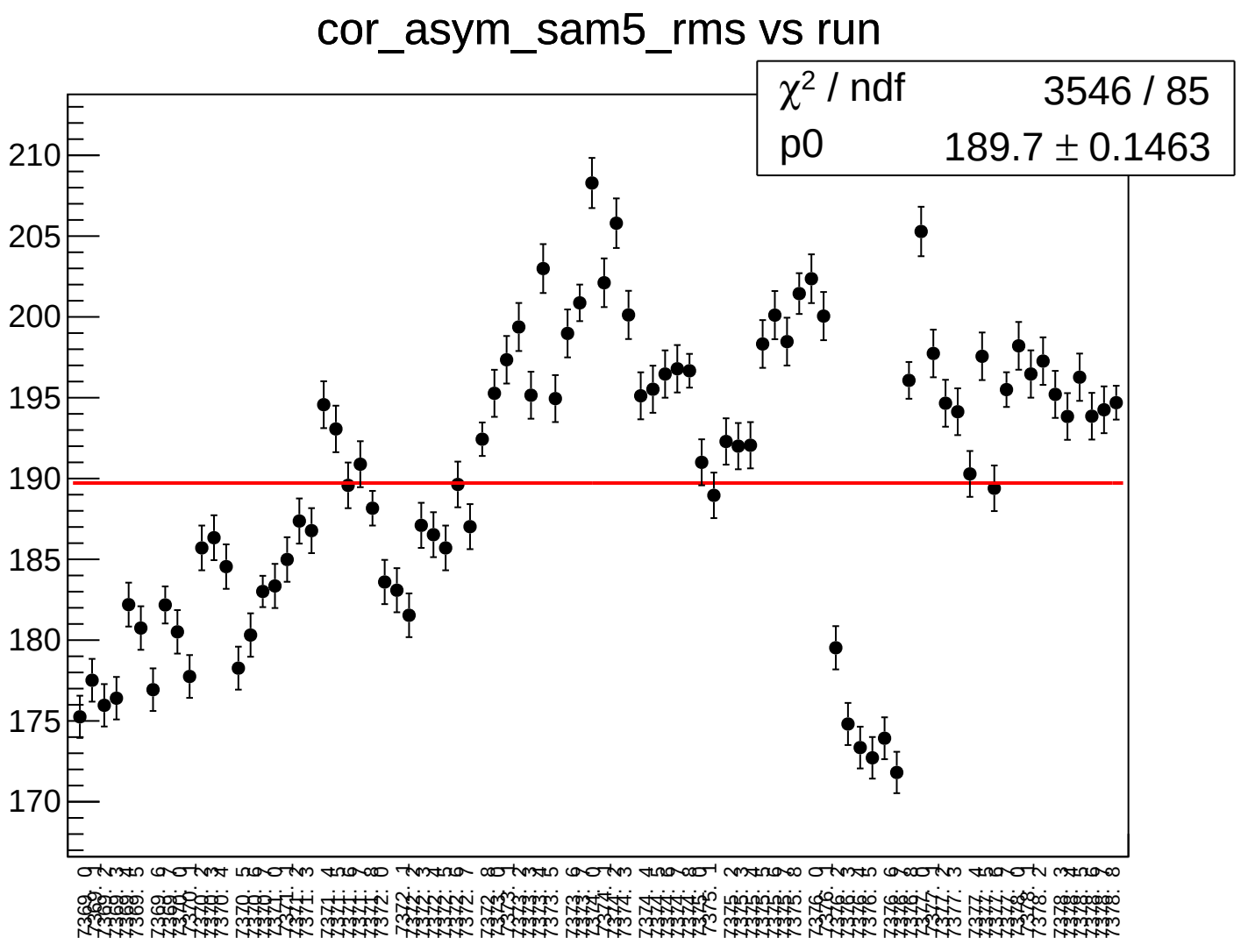

reg_asym_sam5_rms vs run
χ² / ndf 3546 / 85
p0 189.7 ± 0.1463
210
205
200
195
190
185
180
175
170

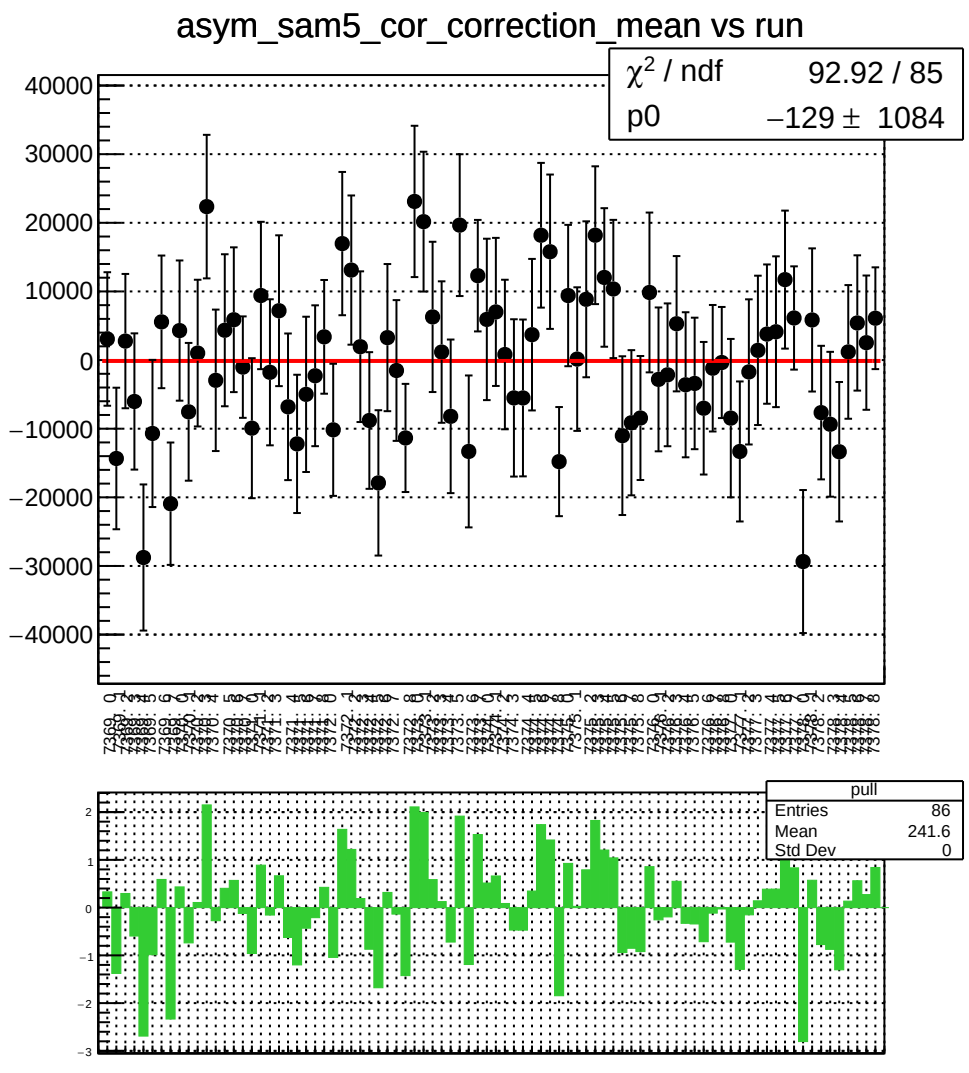

asym_sam5_reg_correction_mean vs run
χ² / ndf 92.92 / 85
p0 −129 ± 1084
pull
Entries 86
Mean 241.6
Std Dev 0

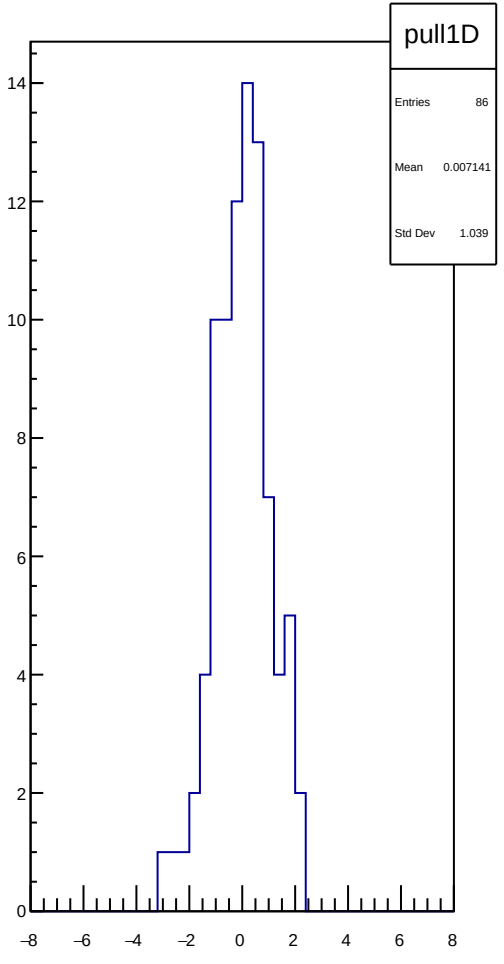

pull1D
Entries 86
Mean 0.007141
Std Dev 1.039

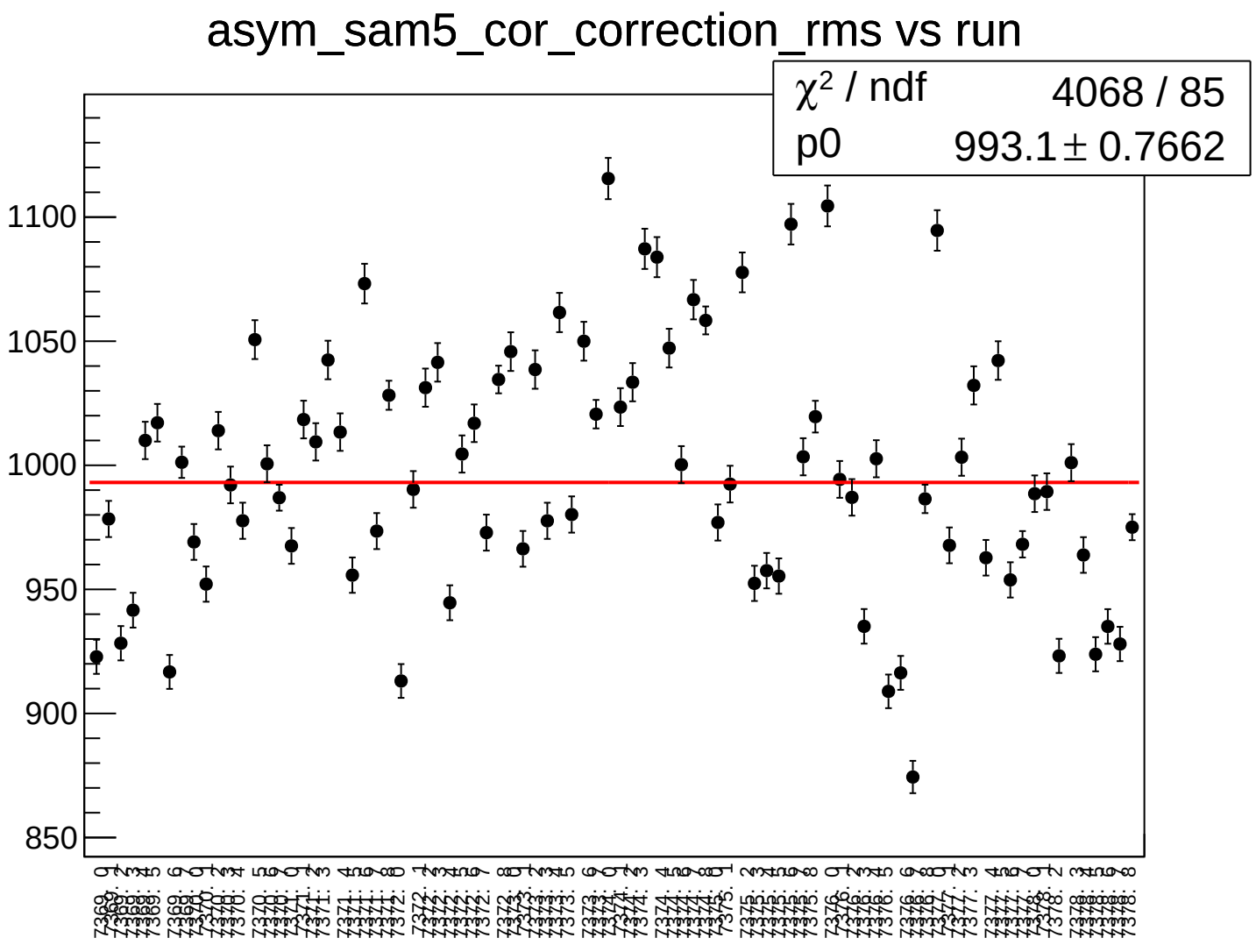

asym_sam5_reg_correction_rms vs run
χ² / ndf 4068 / 85
p0 993.1 ± 0.7662
1100
1050
1000
950
900
850

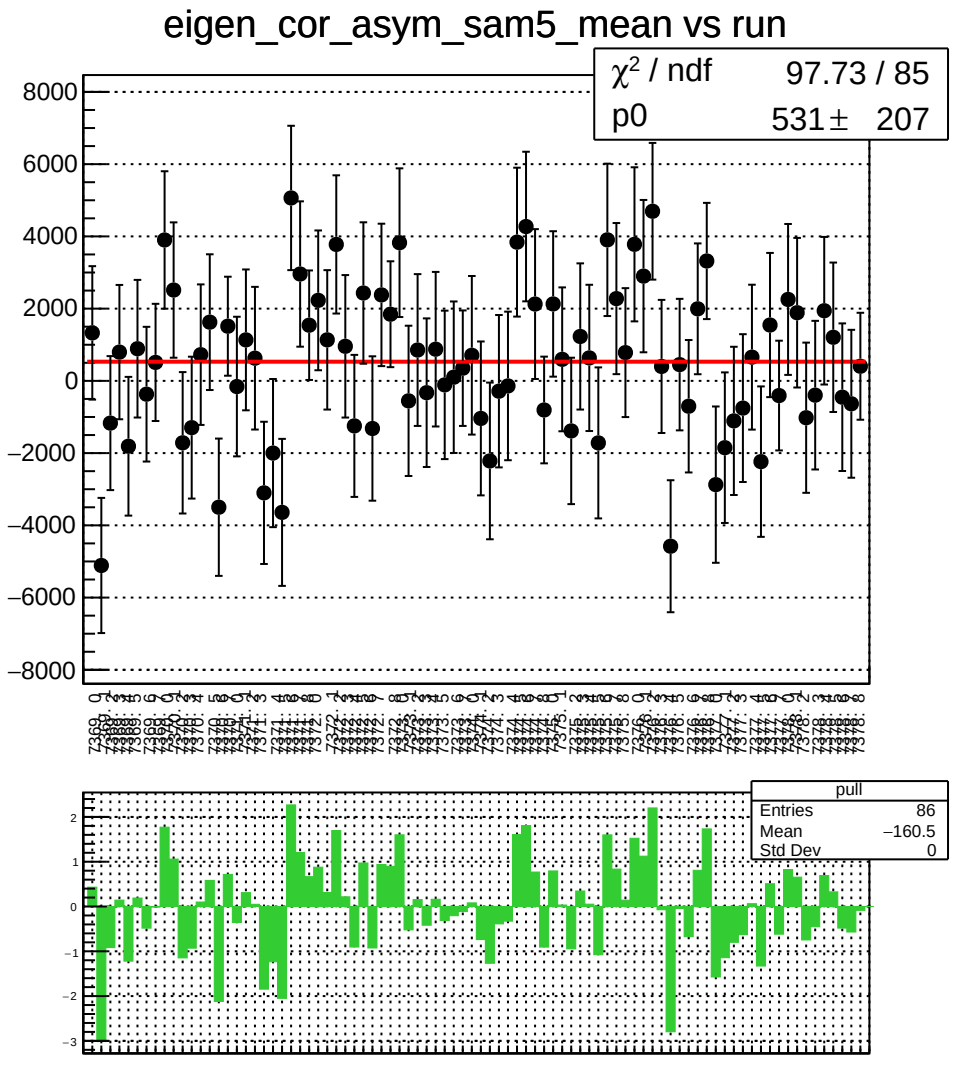

cor_asym_sam5_mean vs run
χ² / ndf 97.73 / 85
p0 531 ± 207
pull
Entries 86
Mean −160.5
Std Dev 0
pull1D
Entries 86
Mean −0.006249
Std Dev 1.066

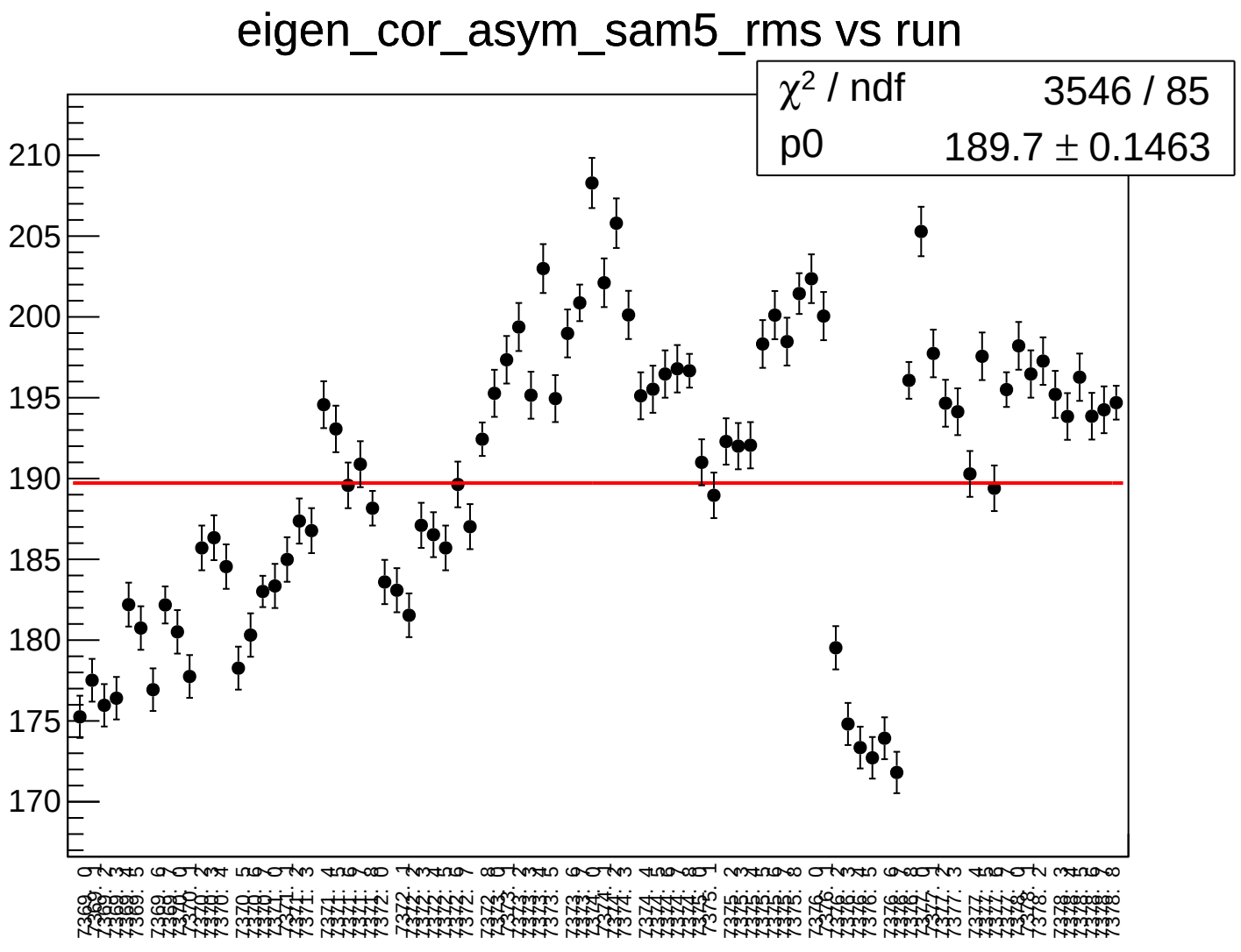

cor_asym_sam5_rms vs run
χ² / ndf 3546 / 85
p0 189.7 ± 0.1463
210
205
200
195
190
185
180
175
170

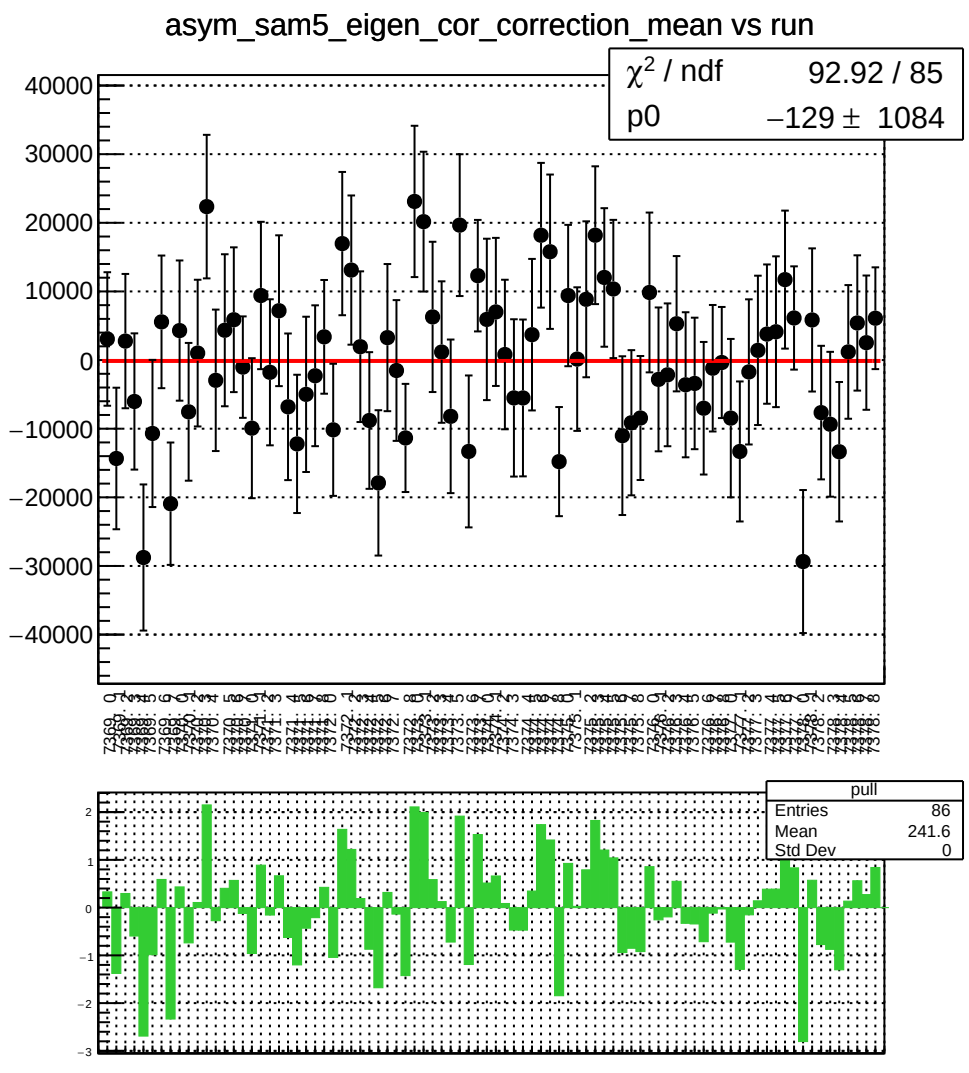

asym_sam5_cor_correction_mean vs run
χ² / ndf 92.92 / 85
p0 −129 ± 1084
pull
Entries 86
Mean 241.6
Std Dev 0

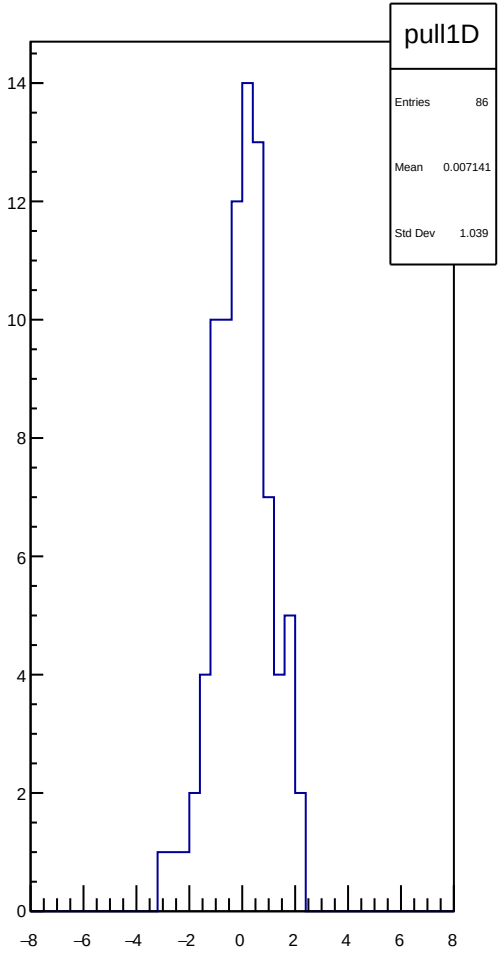

pull1D
Entries 86
Mean 0.007141
Std Dev 1.039

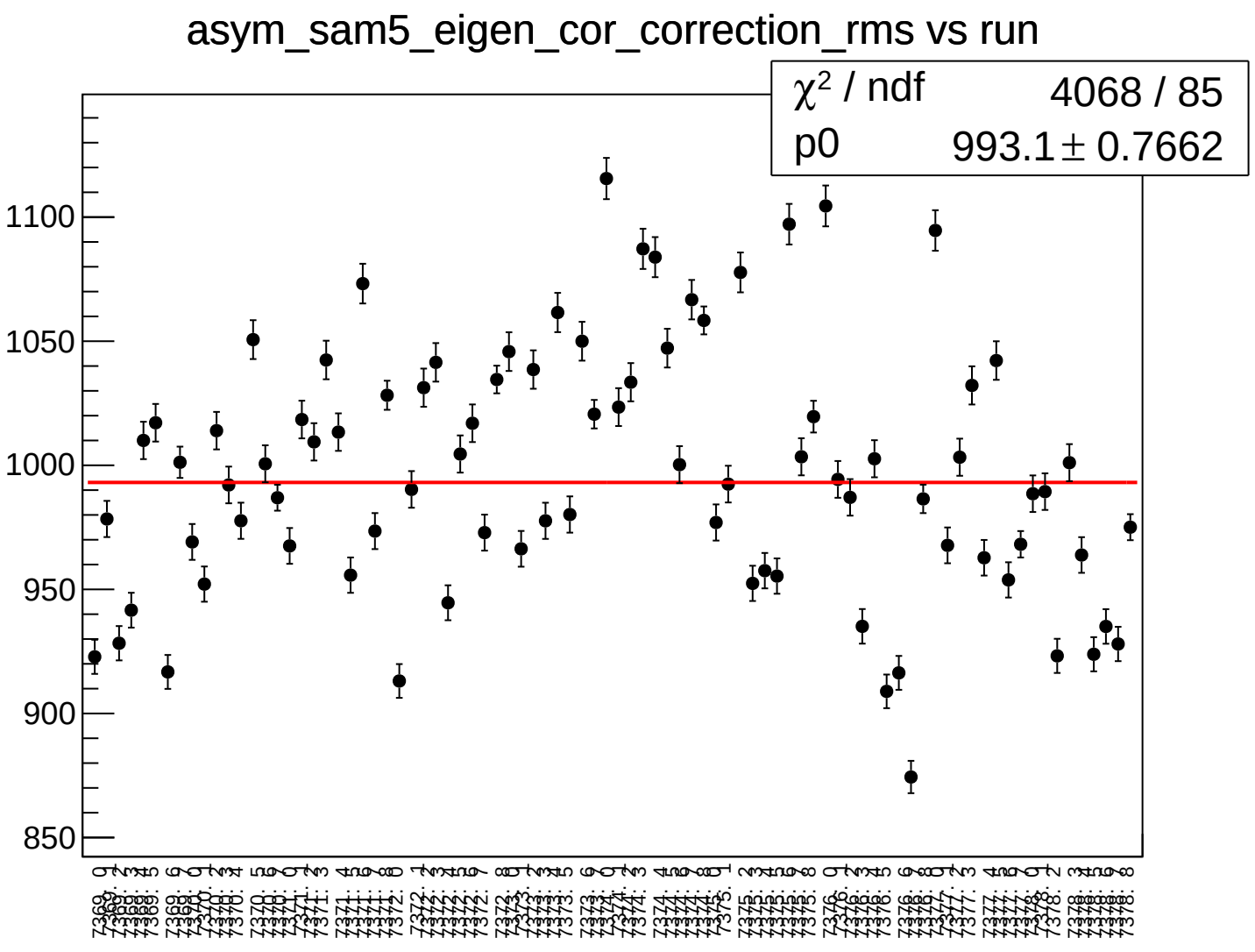

asym_sam5_cor_correction_rms vs run
χ² / ndf 4068 / 85
p0 993.1 ± 0.7662
1100
1050
1000
950
900
850

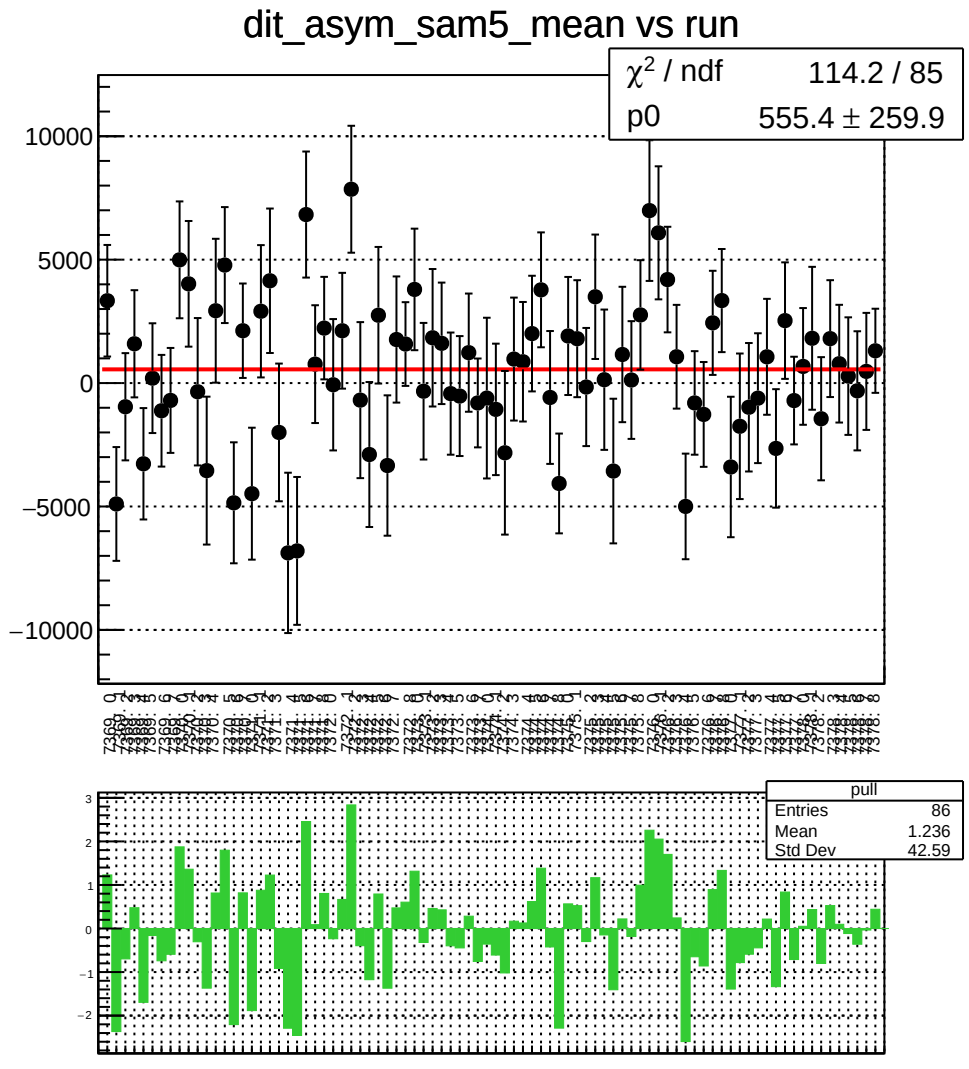

eigen_cor_asym_sam5_mean vs run
χ² / ndf 97.73 / 85
p0 531 ± 207
pull
Entries 86
Mean −160.5
Std Dev 0
pull1D
Entries 86
Mean −0.006249
Std Dev 1.066

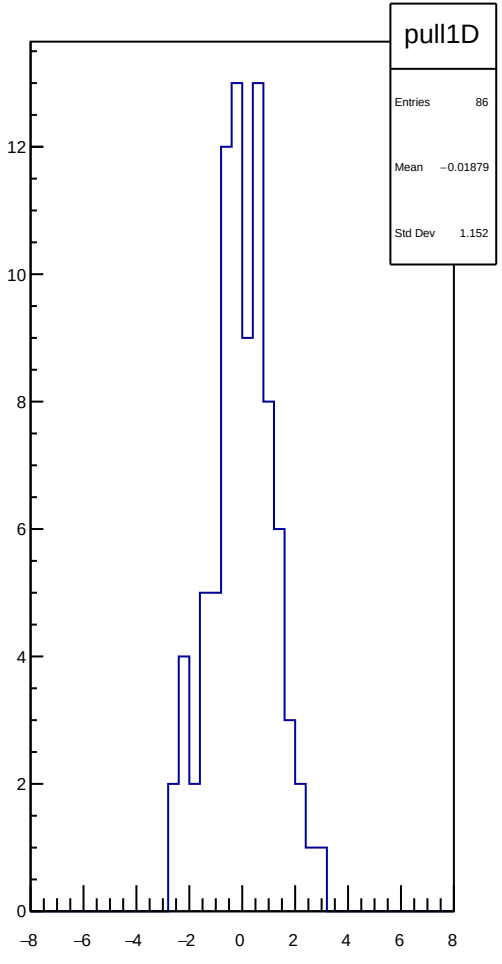

eigen_cor_asym_sam5_rms vs run
χ² / ndf 3546 / 85
p0 189.7 ± 0.1463
210
205
200
195
190
185
180
175
170

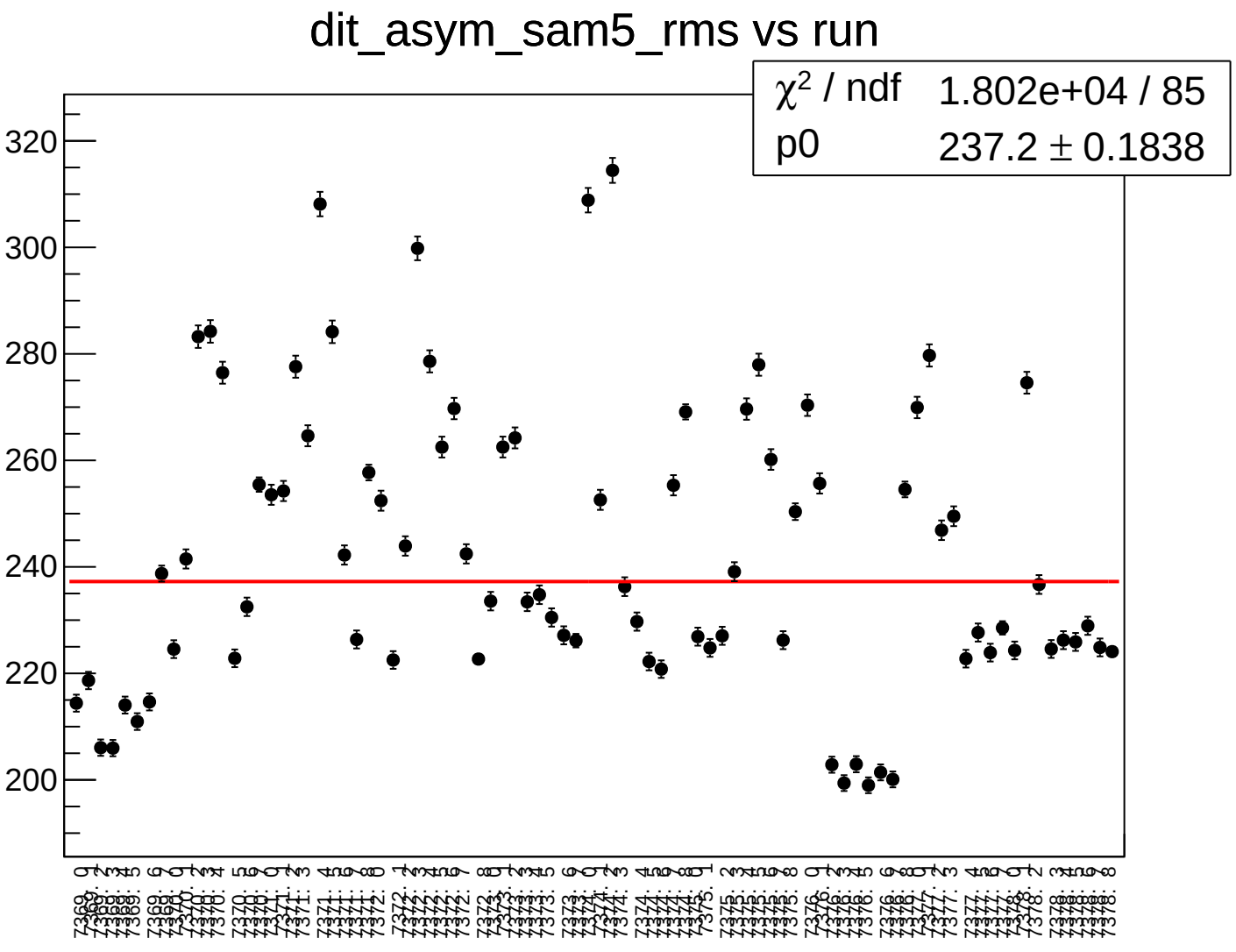

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 92.92 / 85
p0 −129 ± 1084
pull
Entries 86
Mean 241.6
Std Dev 0

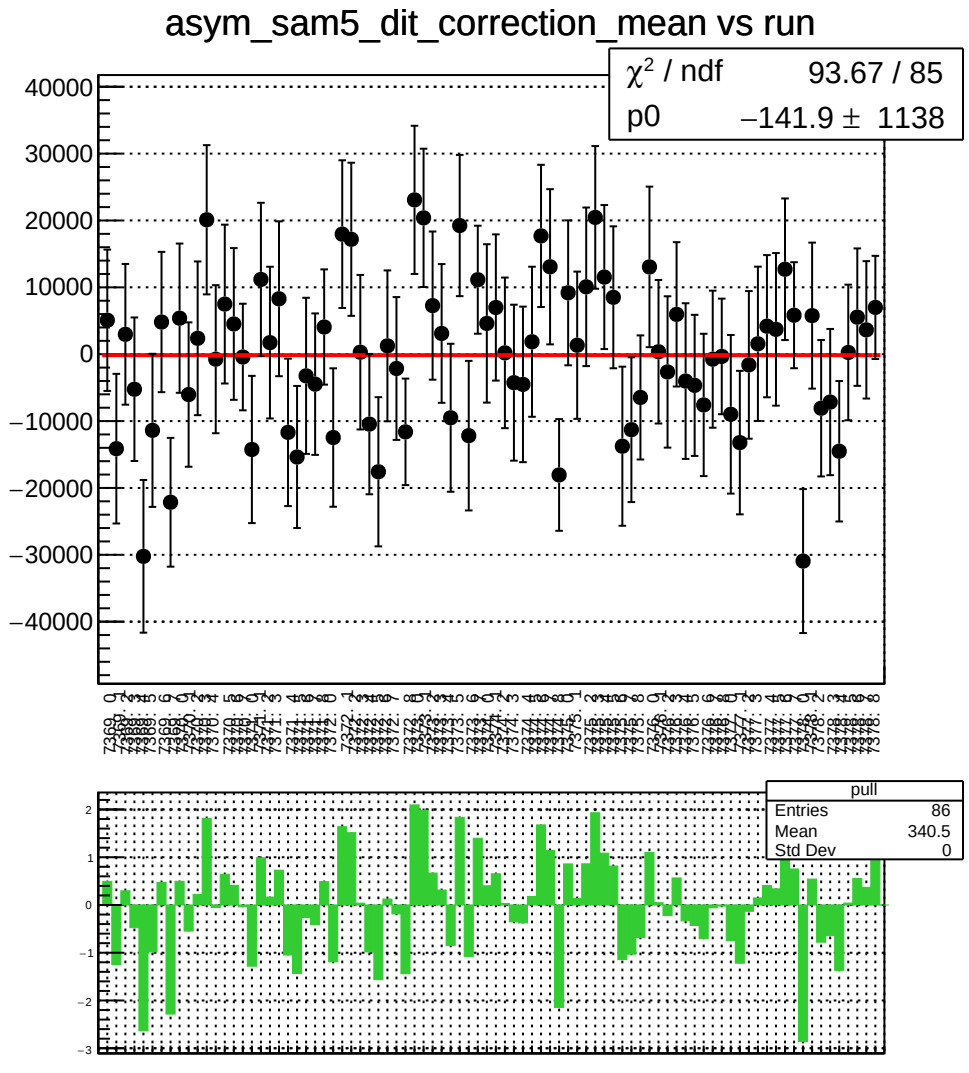

pull1D
Entries 86
Mean 0.007141
Std Dev 1.039

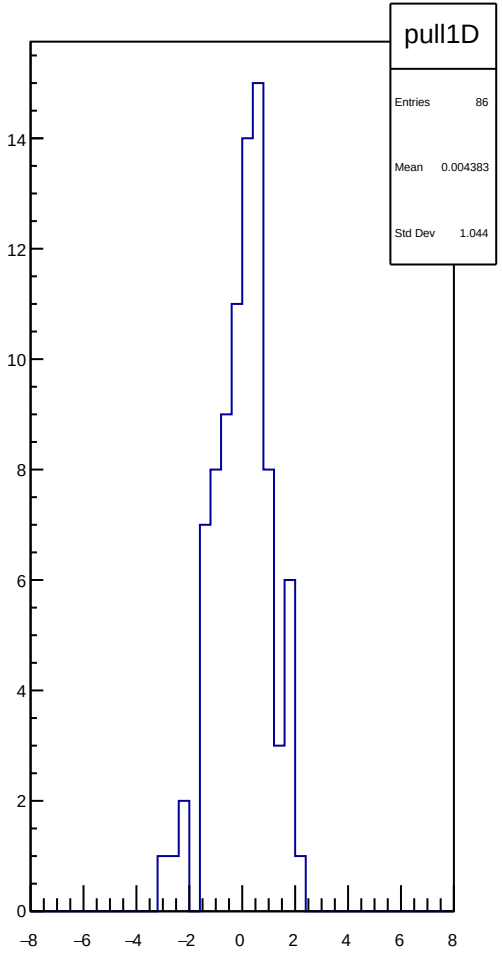

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 4068 / 85
p0 993.1 ± 0.7662
1100
1050
1000
950
900
850

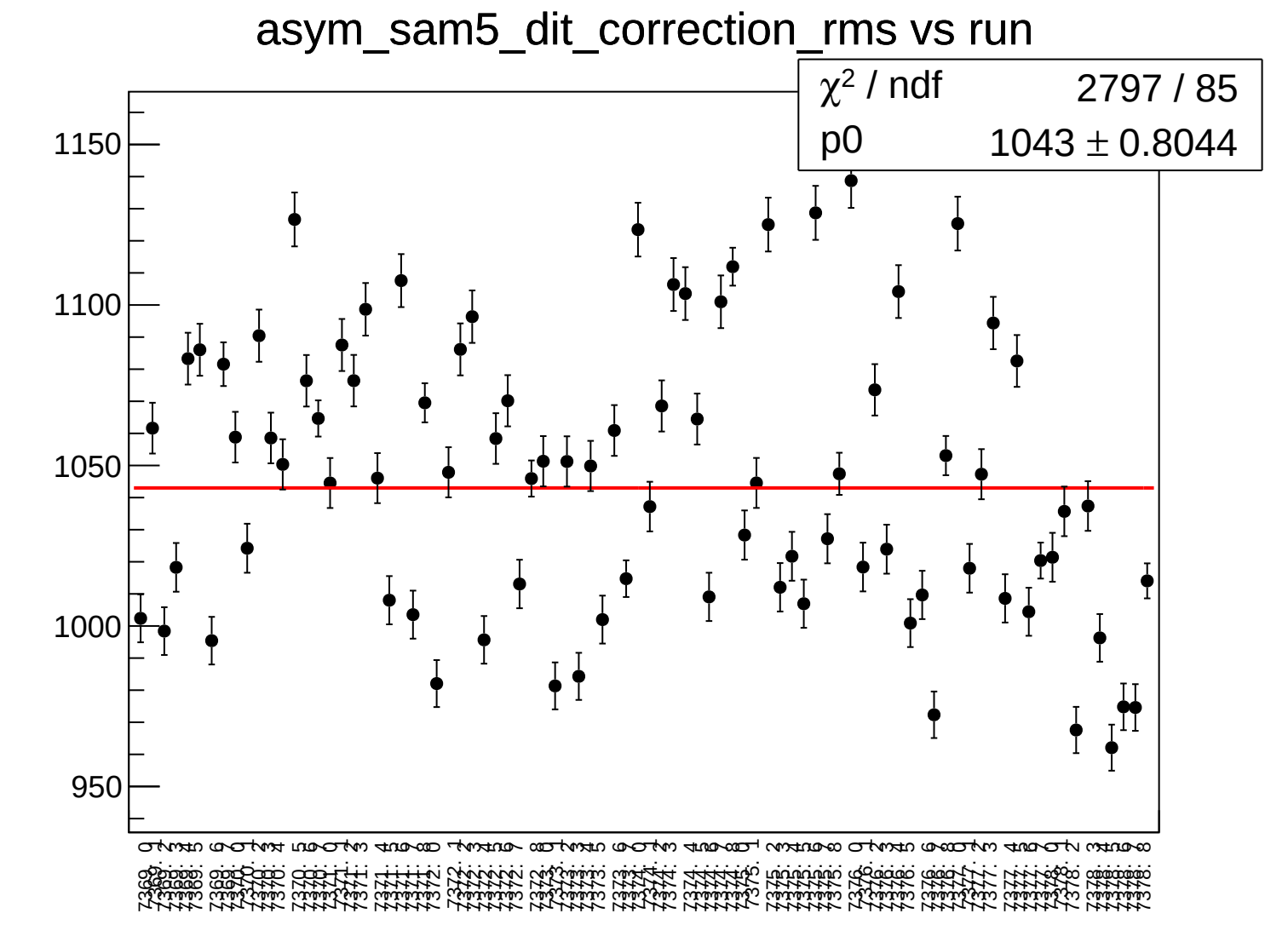

dit_asym_sam5_mean vs run
χ² / ndf 114.2 / 85
p0 555.4 ± 259.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 1.236
Std Dev 42.59
3
2
1
0
−1
−2

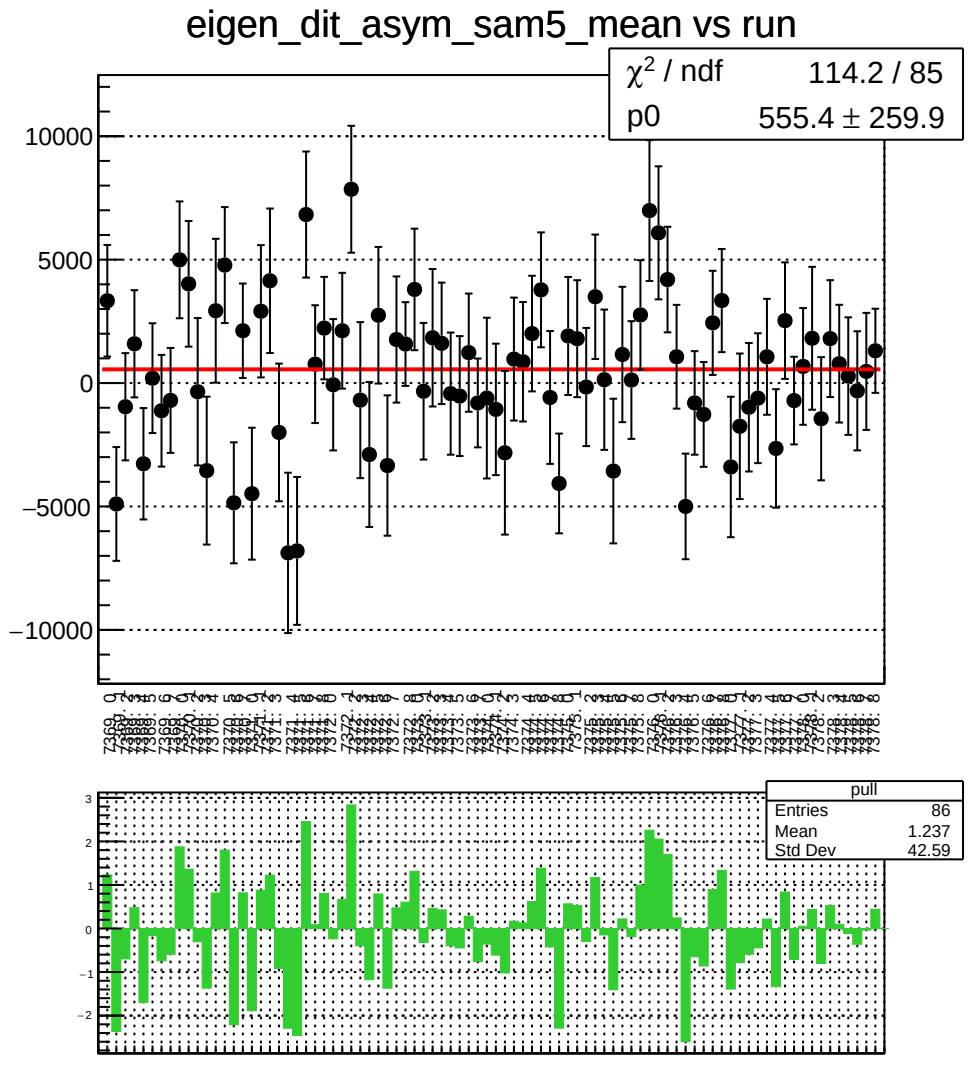

pull1D
Entries 86
Mean −0.01879
Std Dev 1.152
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

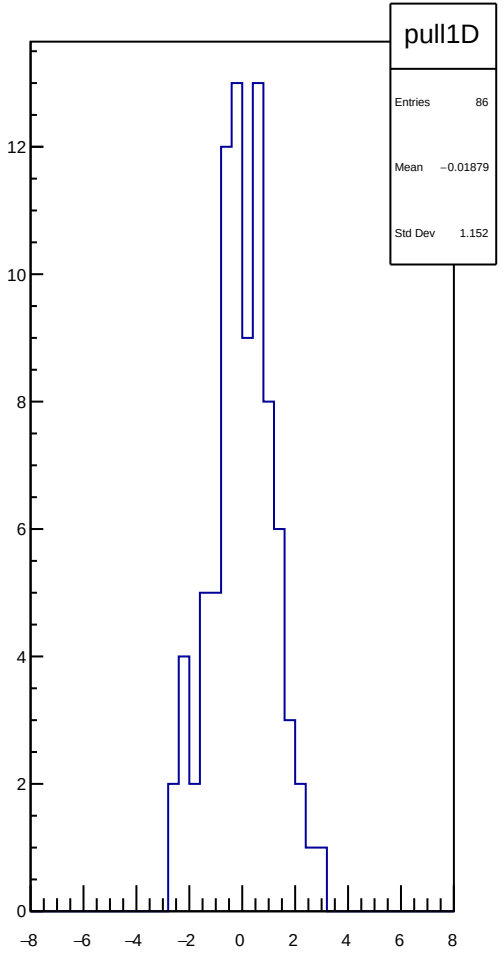

dit_asym_sam5_rms vs run
χ² / ndf 1.802e+04 / 85
p0 237.2 ± 0.1838
320
300
280
260
240
220
200

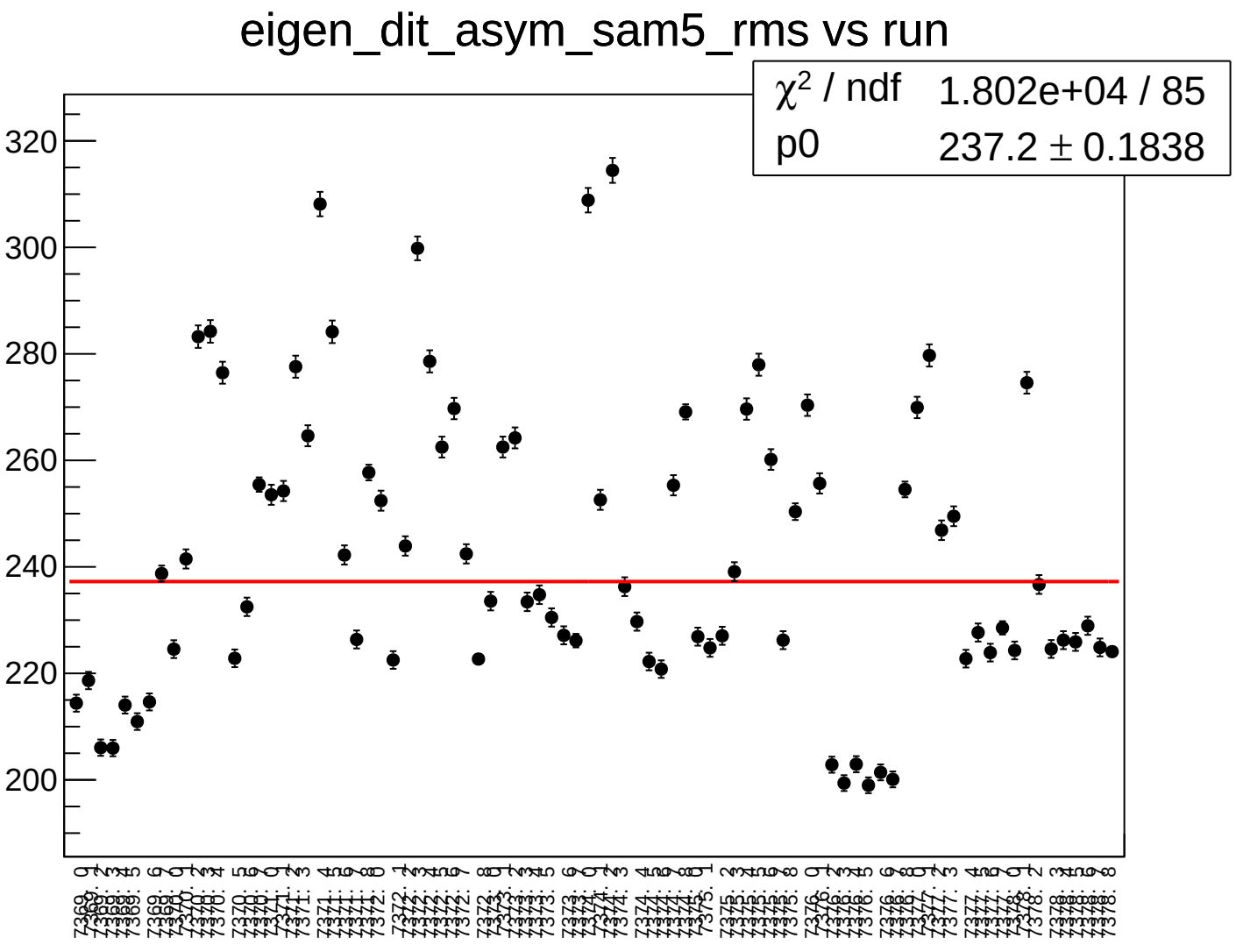

asym_sam5_dit_correction_mean vs run
χ² / ndf 93.67 / 85
p0 −141.9 ± 1138
pull
Entries 86
Mean 340.5
Std Dev 0

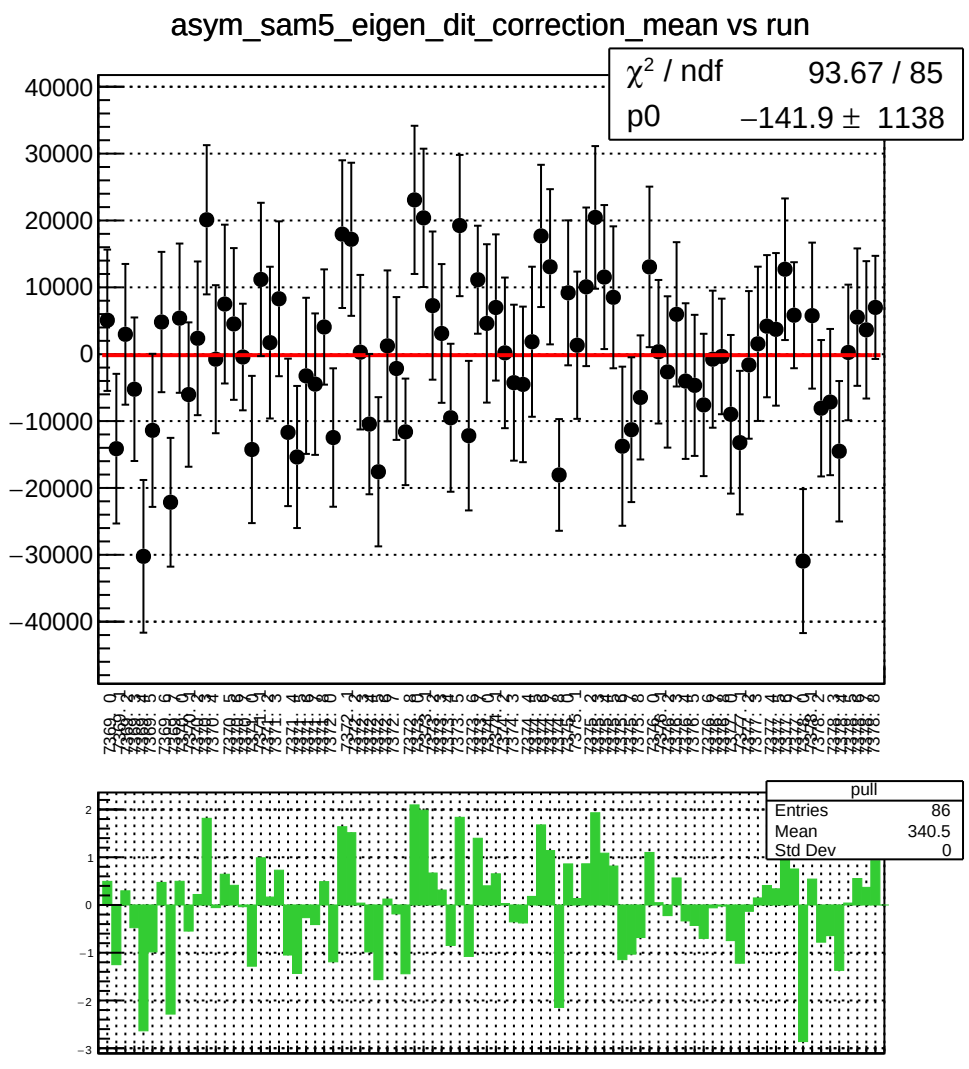

pull1D
Entries 86
Mean 0.004383
Std Dev 1.044

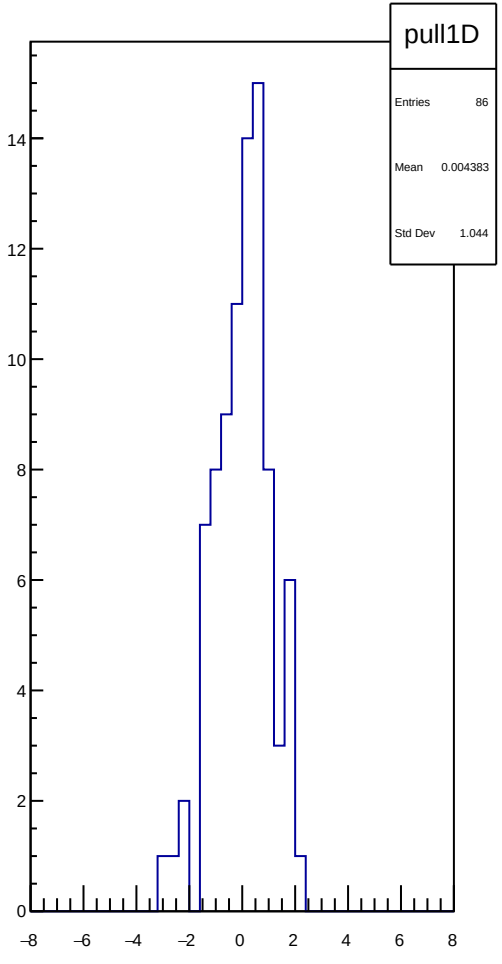

asym_sam5_dit_correction_rms vs run
χ² / ndf 2797 / 85
p0 1043 ± 0.8044
1150
1100
1050
1000
950

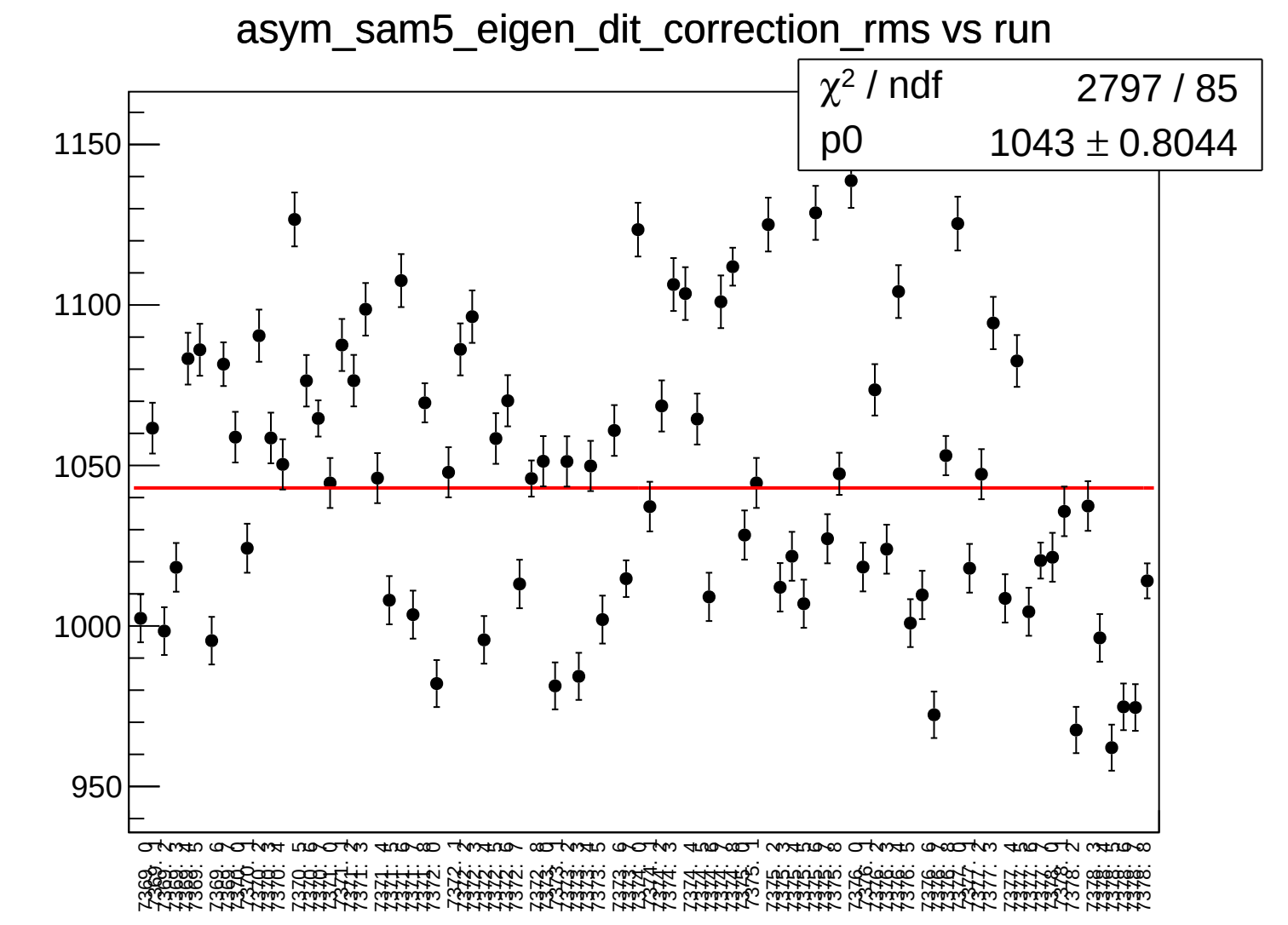

eigen_dit_asym_sam5_mean vs run
χ² / ndf 114.2 / 85
p0 555.4 ± 259.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 1.237
Std Dev 42.59
3
2
1
0
−1
−2

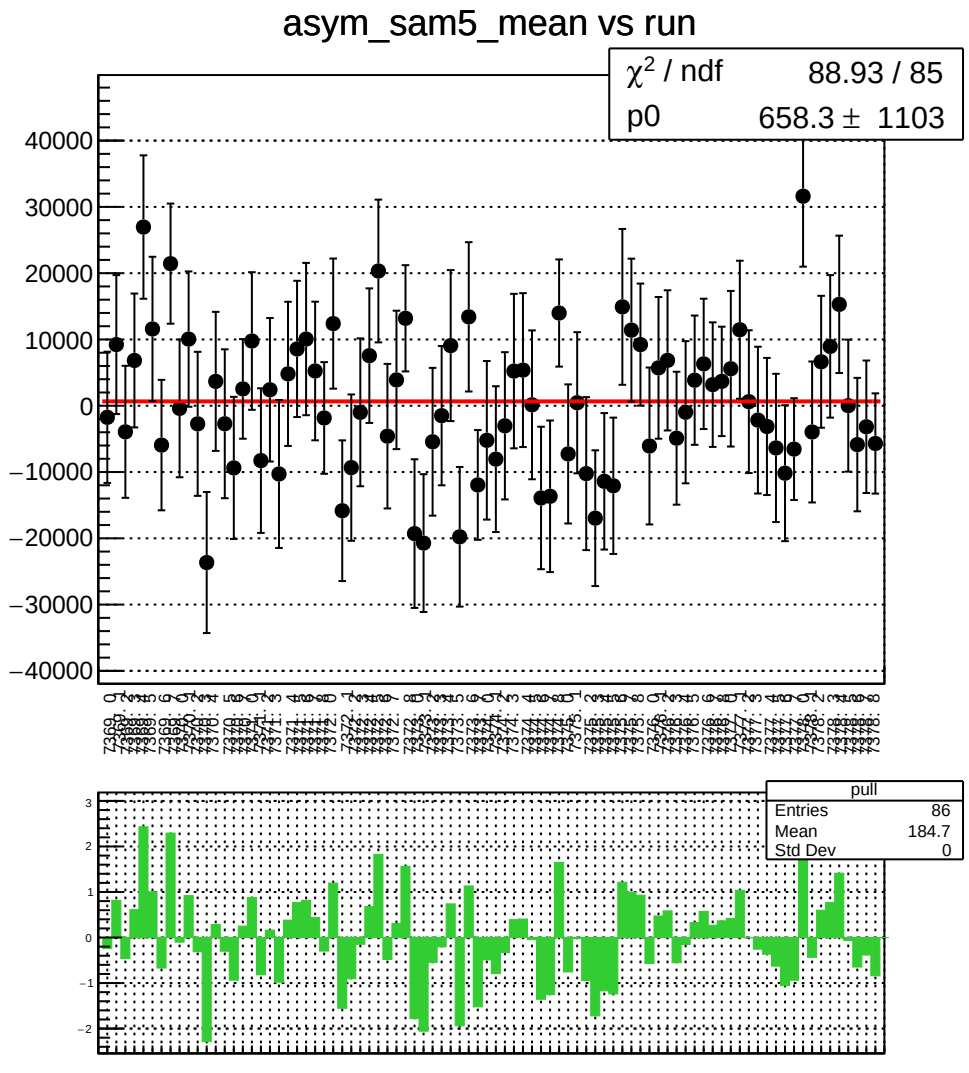

pull1D
Entries 86
Mean −0.01879
Std Dev 1.152
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

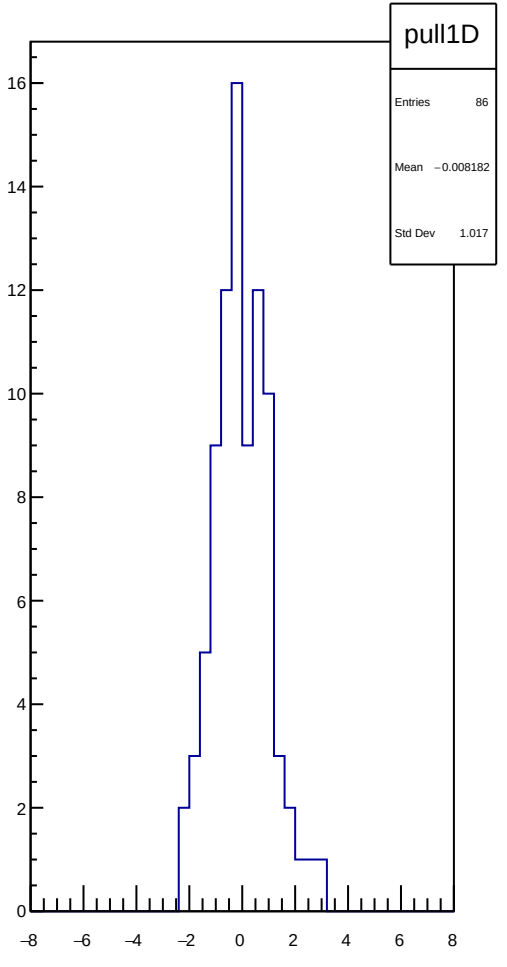

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1.802e+04 / 85
p0 237.2 ± 0.1838
320
300
280
260
240
220
200

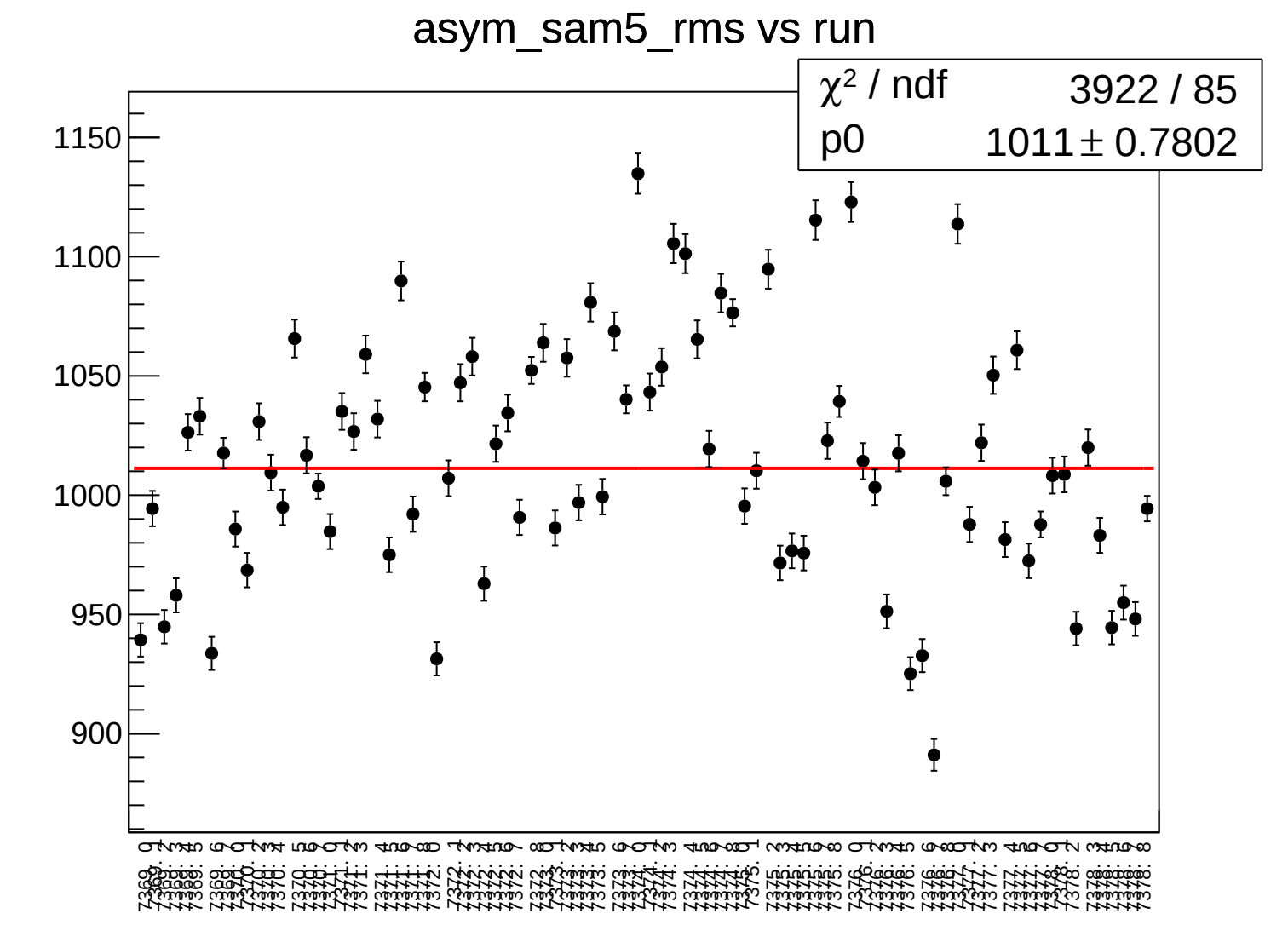

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 93.67 / 85
p0 −141.9 ± 1138
pull
Entries 86
Mean 340.5
Std Dev 0

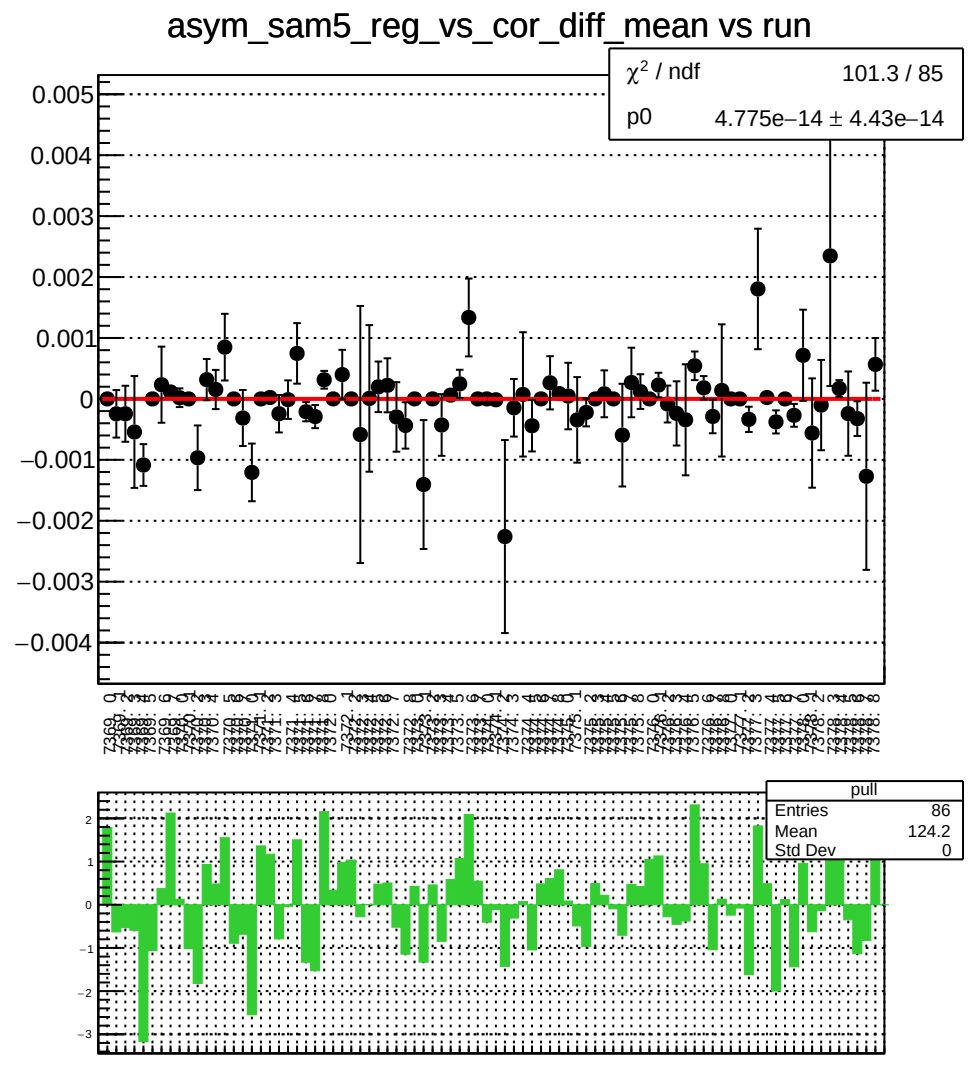

pull1D
Entries 86
Mean 0.004383
Std Dev 1.044

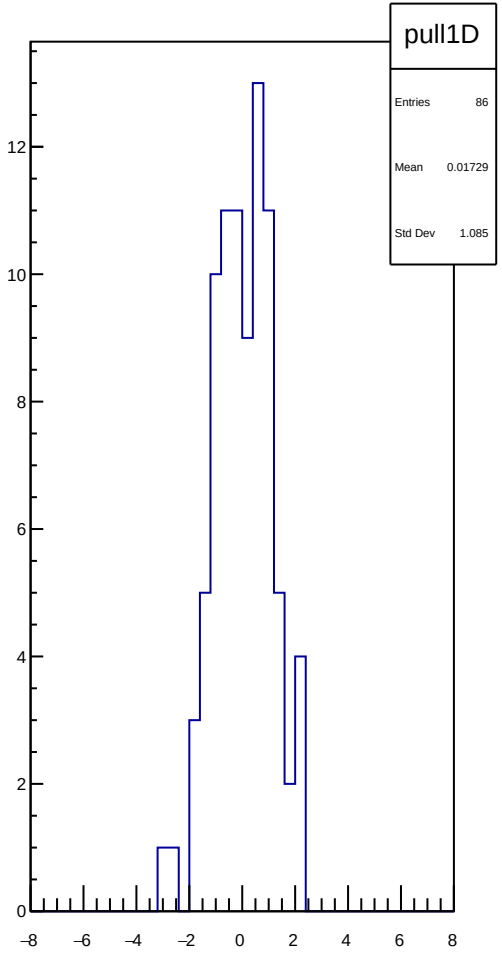

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2797 / 85
p0 1043 ± 0.8044
1150
1100
1050
1000
950

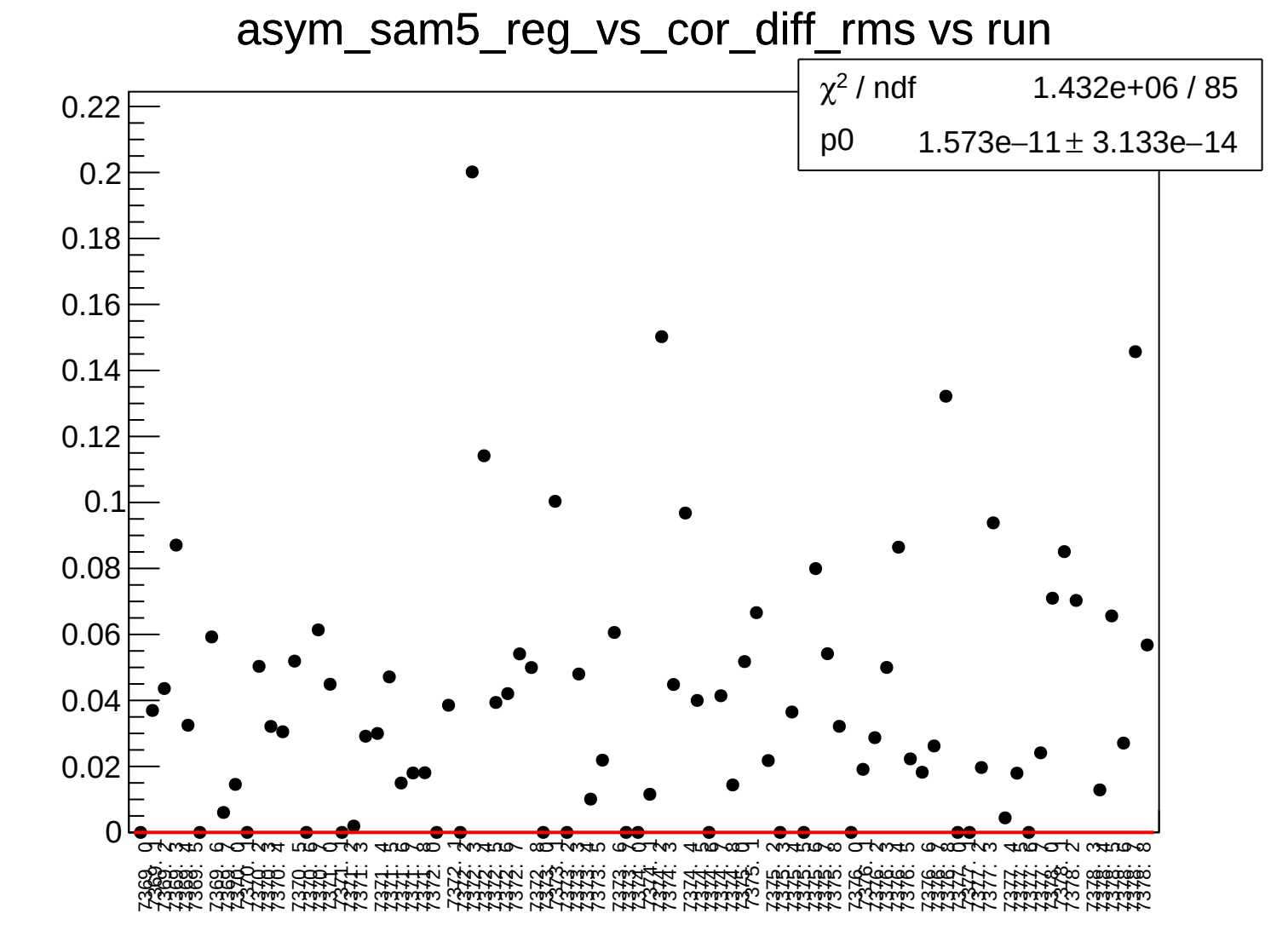

asym_sam5_mean vs run
χ² / ndf 88.93 / 85
p0 658.3 ± 1103
pull
Entries 86
Mean 184.7
Std Dev 0

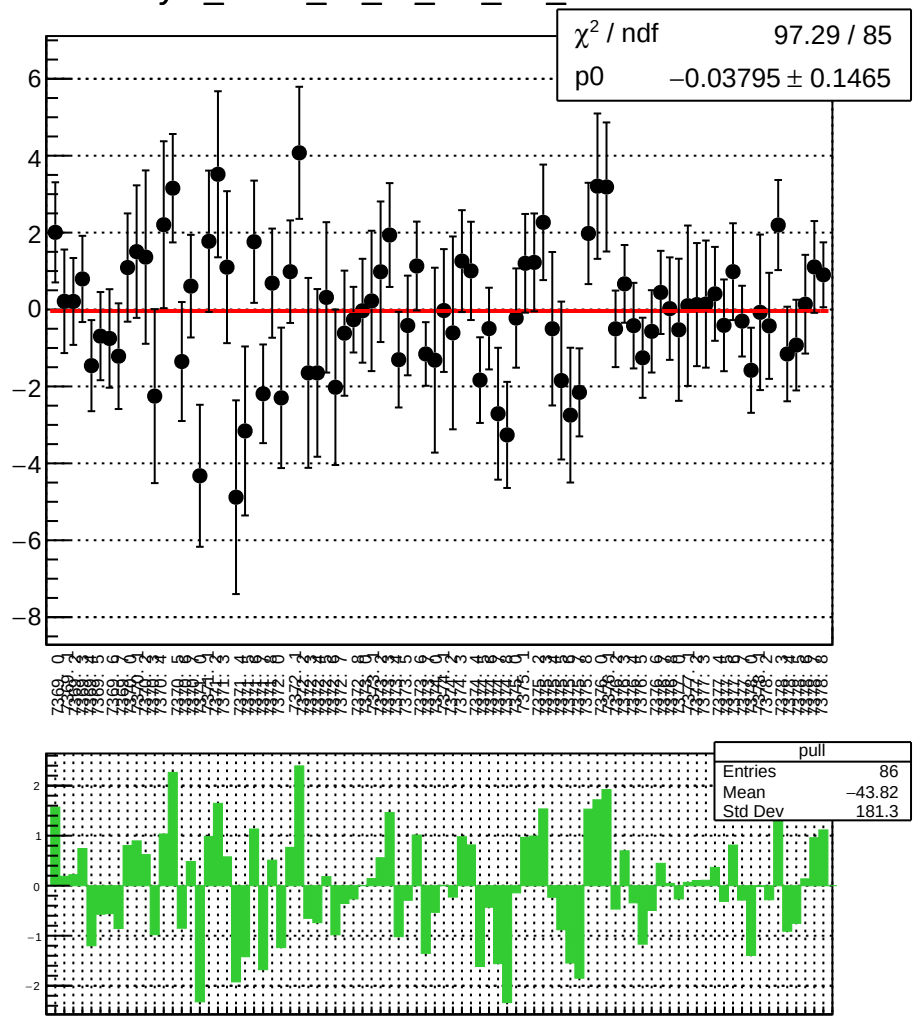

pull1D
Entries 86
Mean −0.008182
Std Dev 1.017

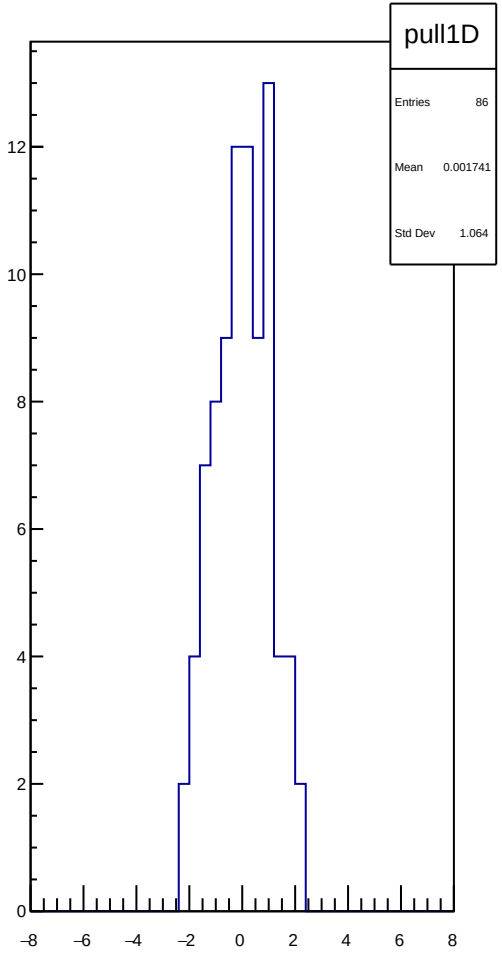

asym_sam5_rms vs run
χ² / ndf 3922 / 85
p0 1011 ± 0.7802
1150
1100
1050
1000
950
900

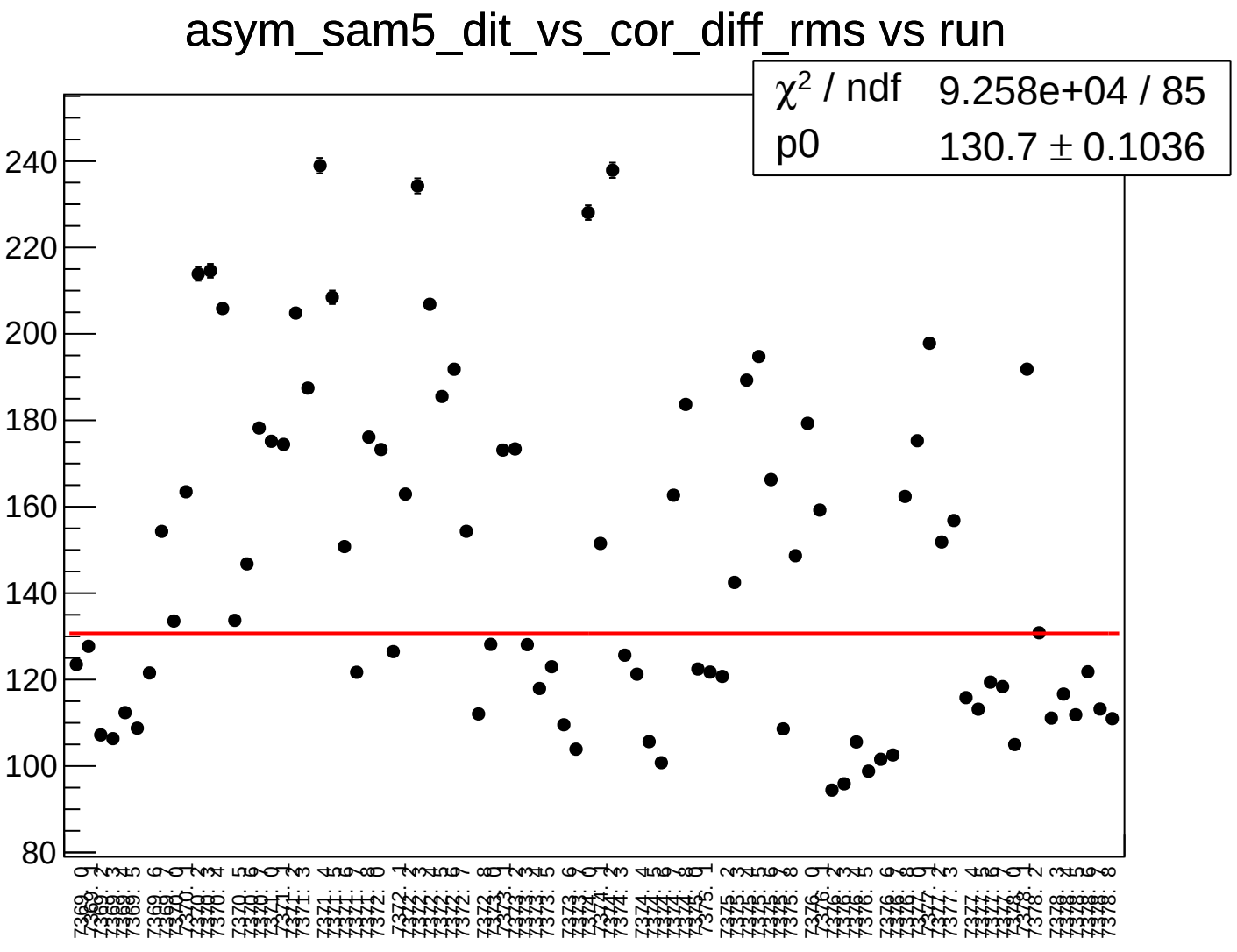

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 85
p0 4.775e−14 ± 4.43e−14
pull
Entries 86
Mean 124.2
Std Dev 0

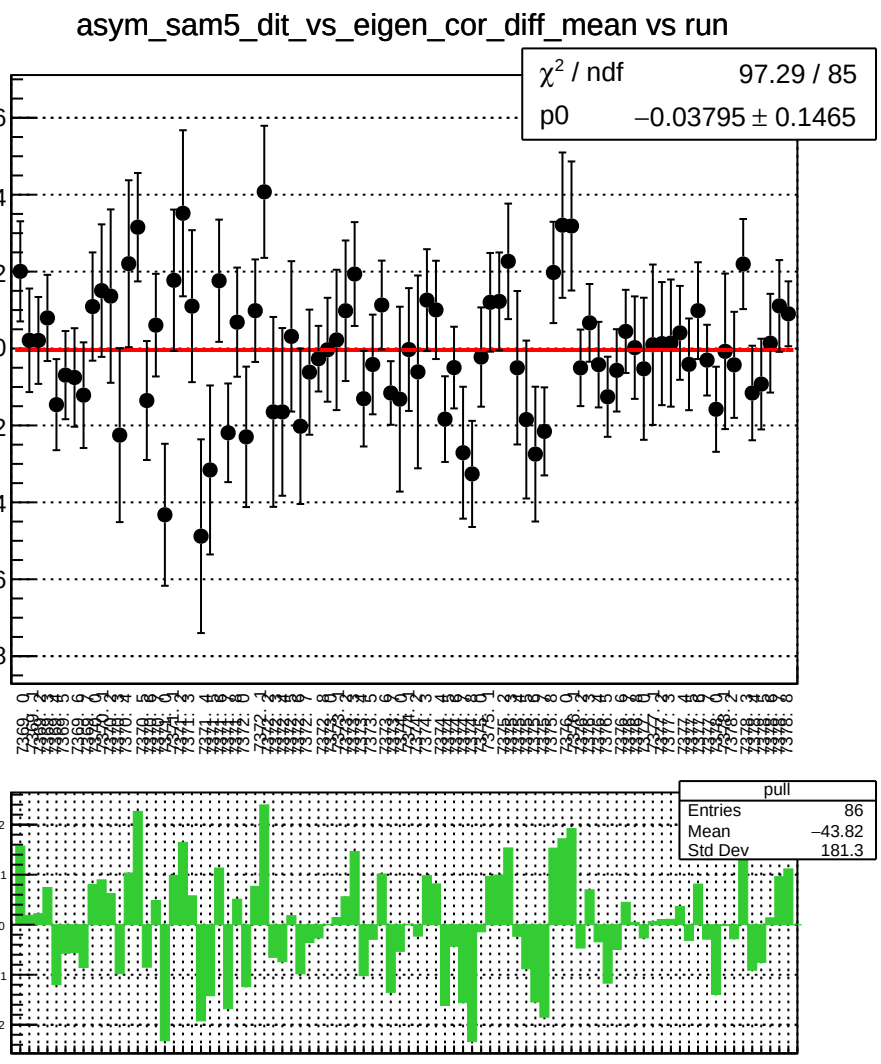

pull1D
Entries 86
Mean 0.01729
Std Dev 1.085

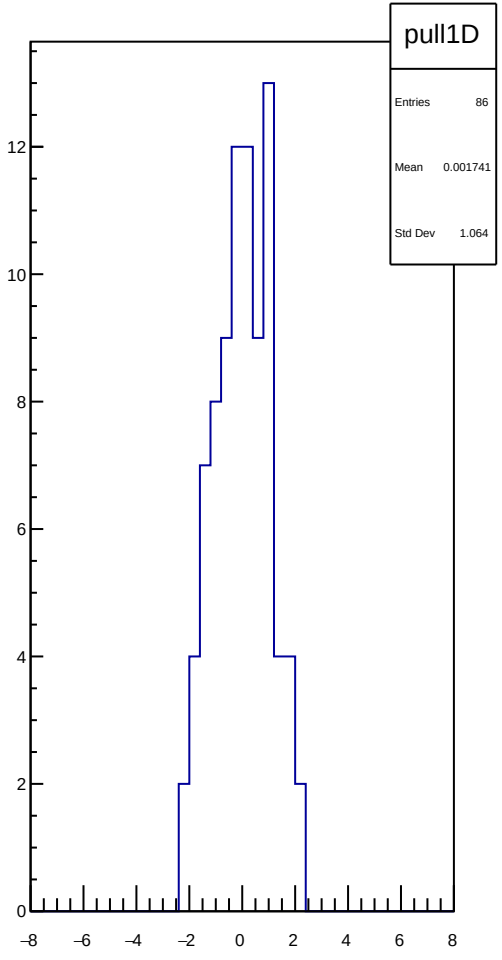

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.432e+06 / 85
p0 1.573e−11 ± 3.133e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

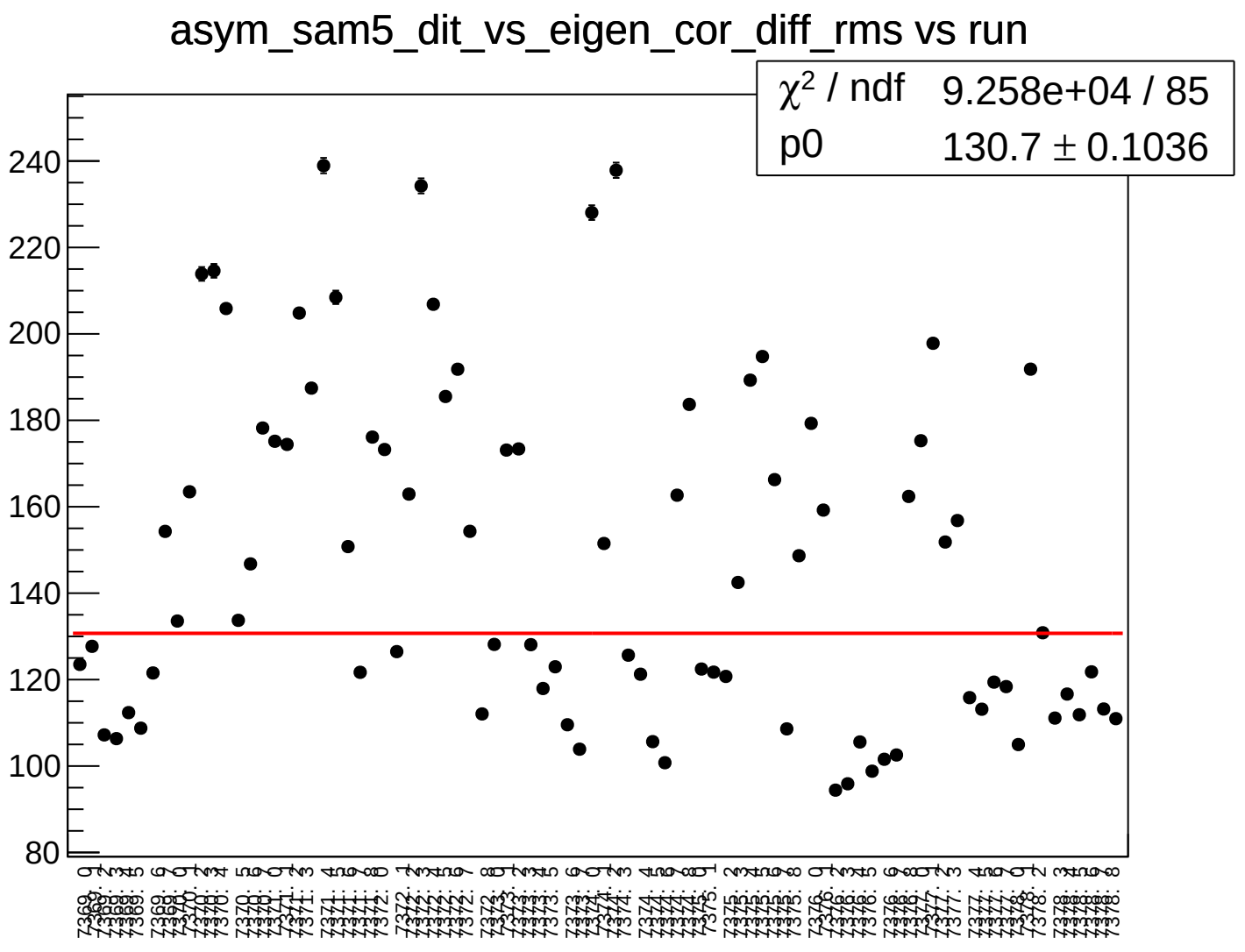

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 97.29 / 85
p0 −0.03795 ± 0.1465
pull
Entries 86
Mean −43.82
Std Dev 181.3

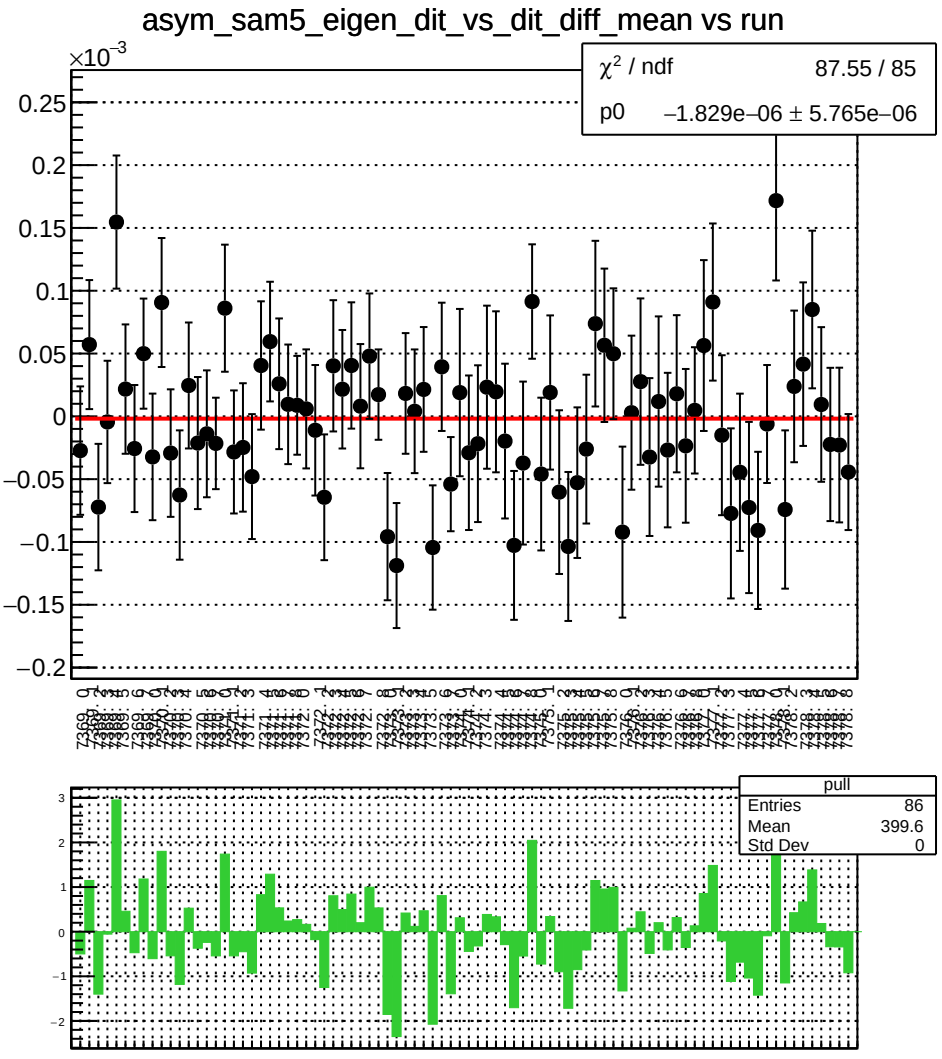

pull1D
Entries 86
Mean 0.001741
Std Dev 1.064

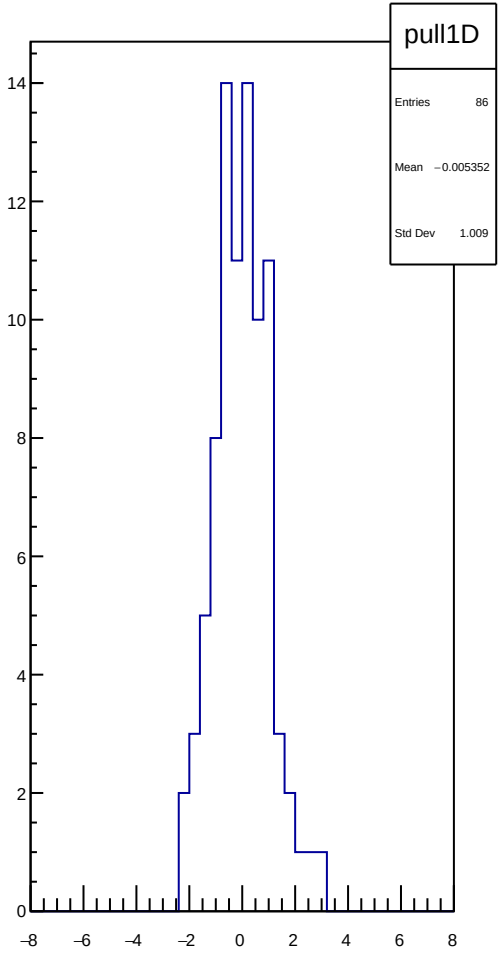

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 9.258e+04 / 85
p0 130.7 ± 0.1036
240
220
200
180
160
140
120
100
80

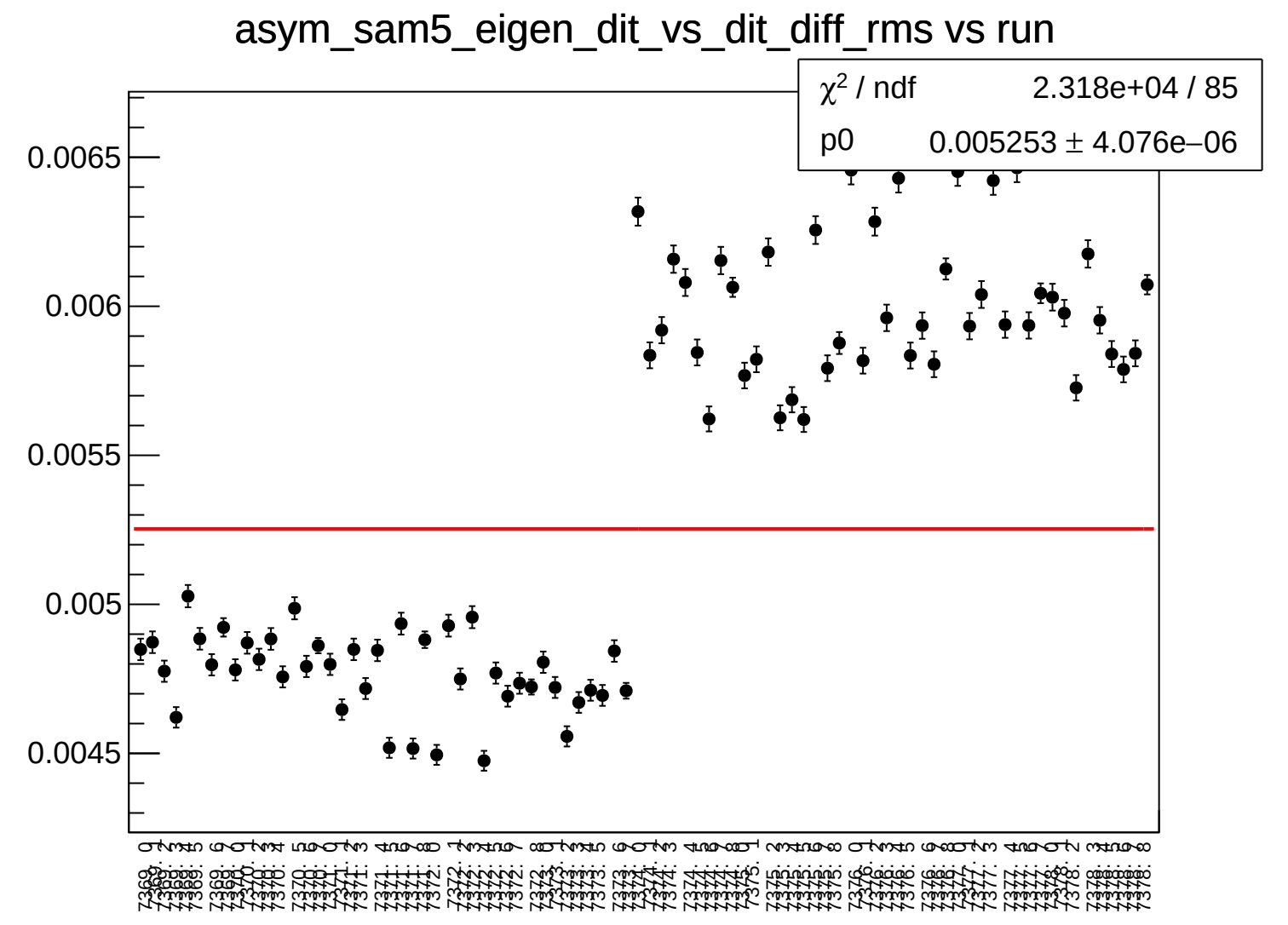

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.29 / 85
p0 −0.03795 ± 0.1465
pull
Entries 86
Mean −43.82
Std Dev 181.3

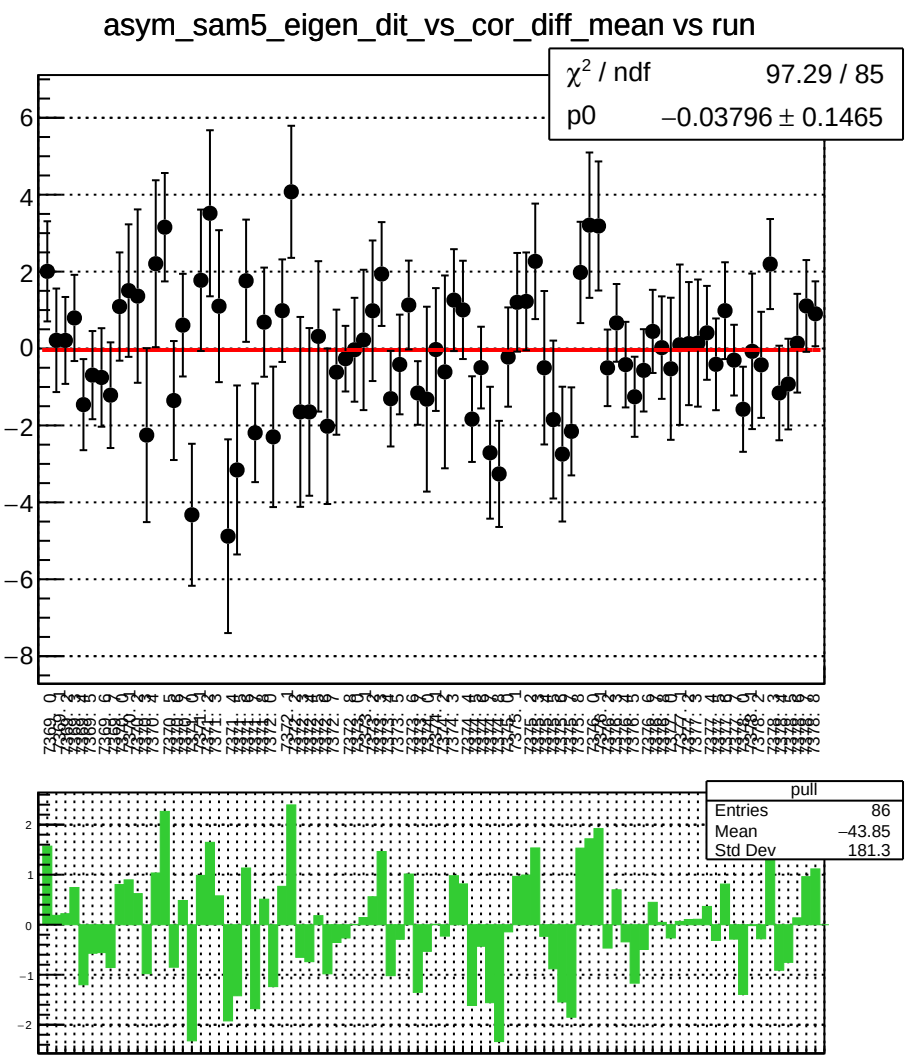

pull1D
Entries 86
Mean 0.001741
Std Dev 1.064

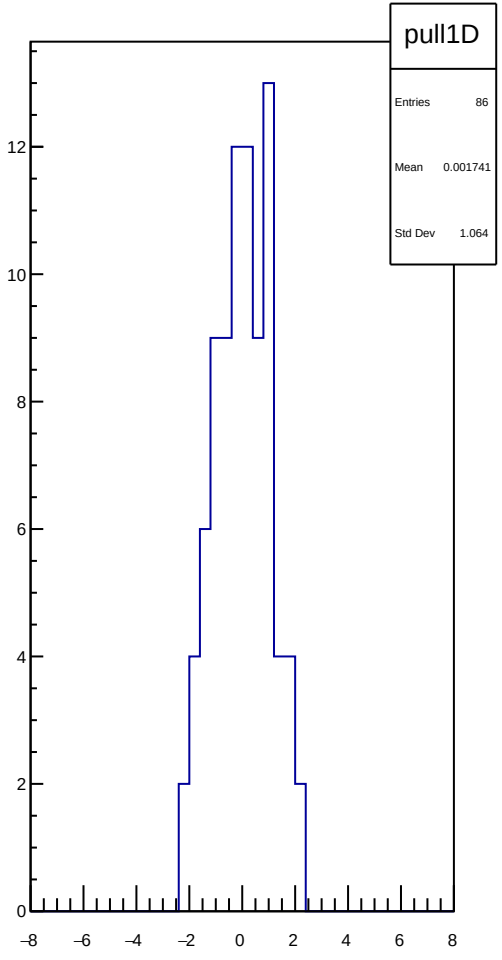

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.258e+04 / 85
p0 130.7 ± 0.1036
240
220
200
180
160
140
120
100
80

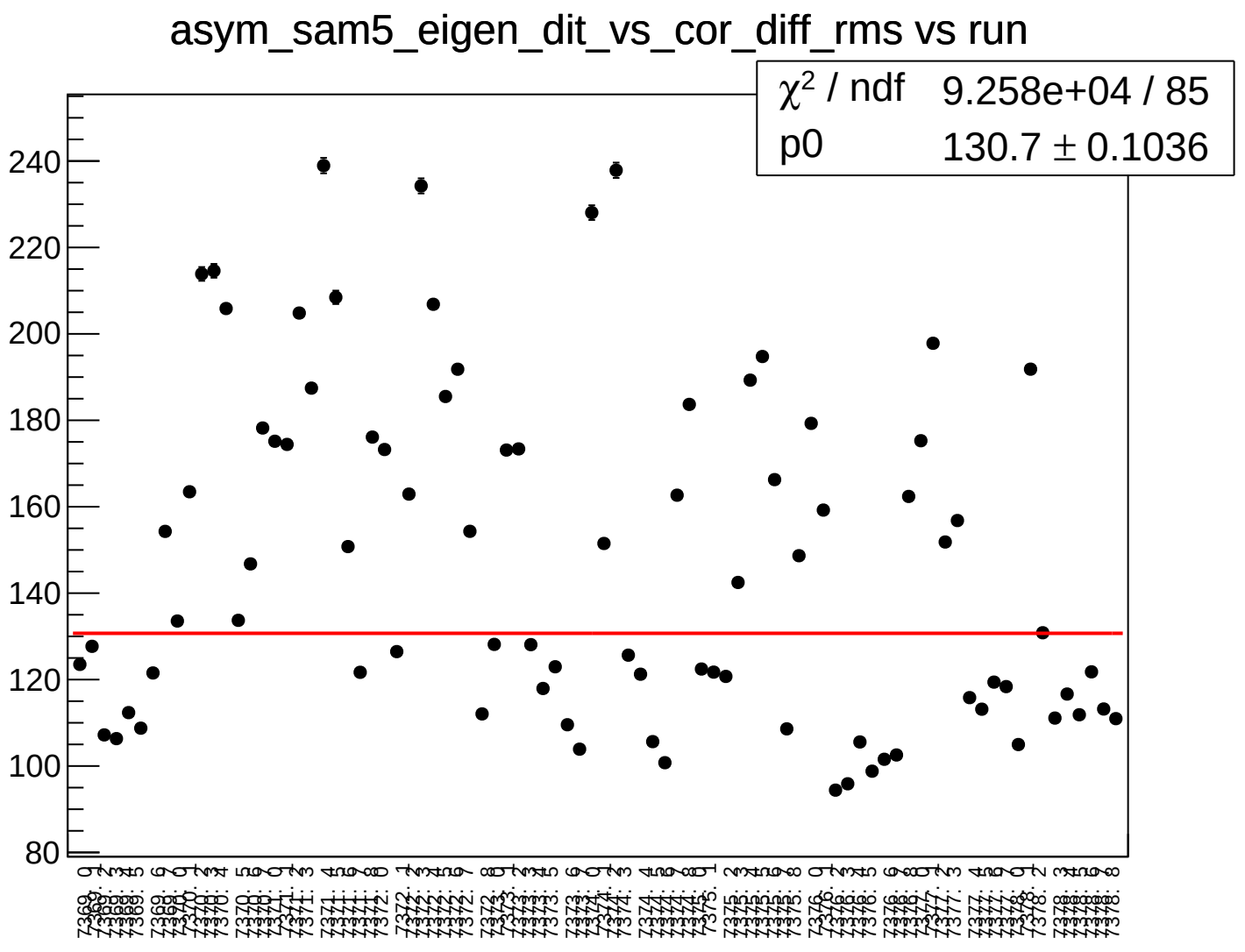

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.55 / 85
p0 −1.829e−06 ± 5.765e−06
pull
Entries 86
Mean 399.6
Std Dev 0

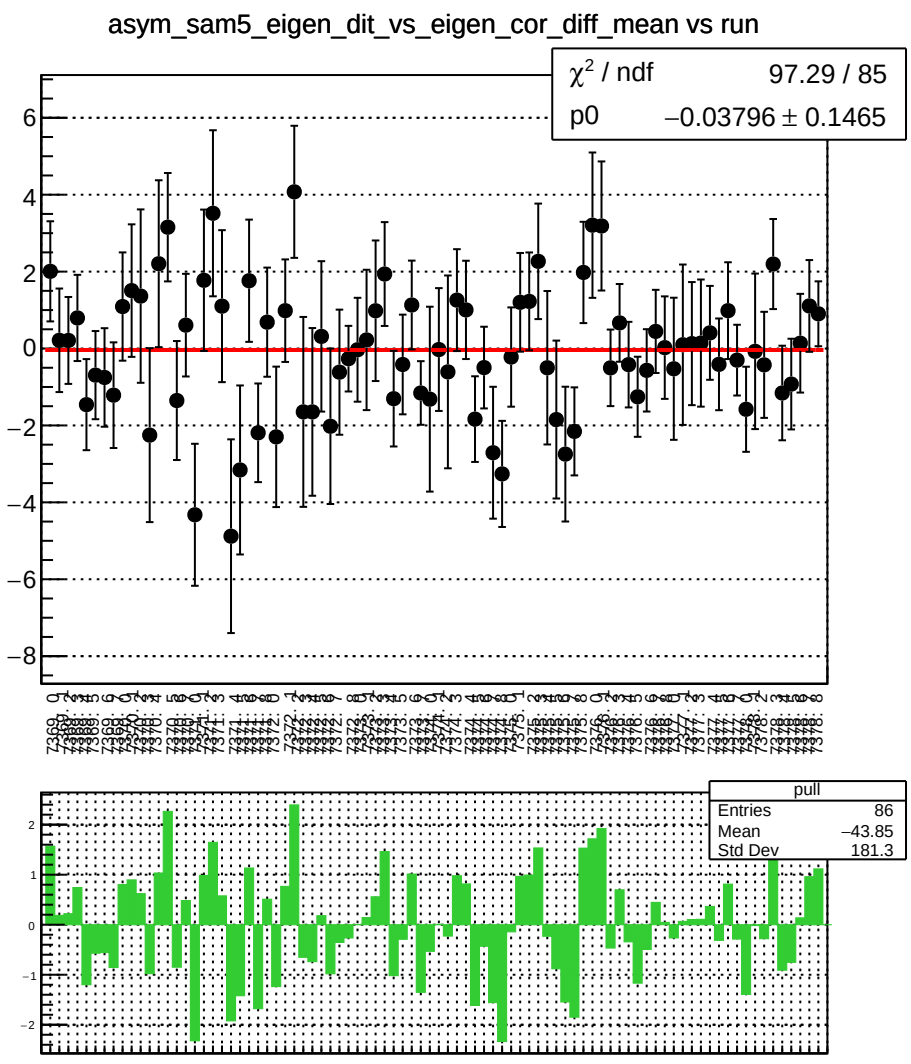

pull1D
Entries 86
Mean −0.005352
Std Dev 1.009

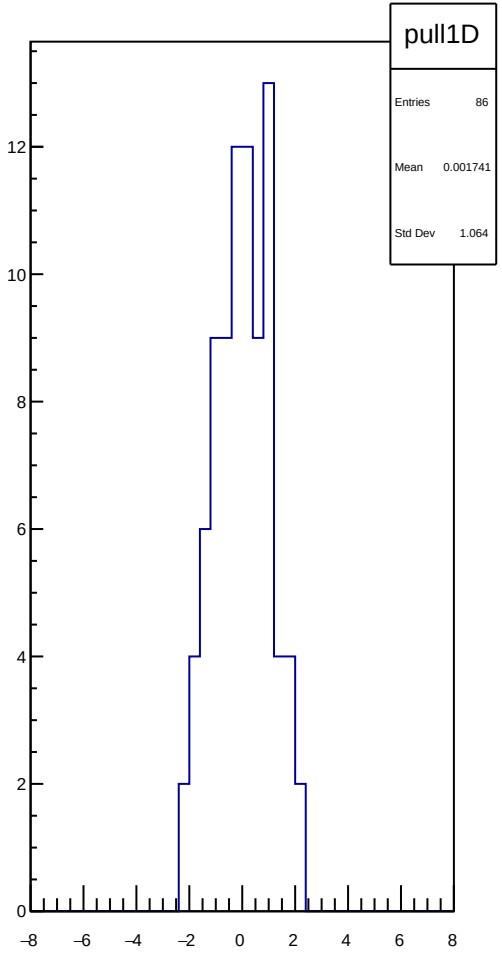

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.318e+04 / 85
p0 0.005253 ± 4.076e−06
0.0065
0.006
0.0055
0.005
0.0045

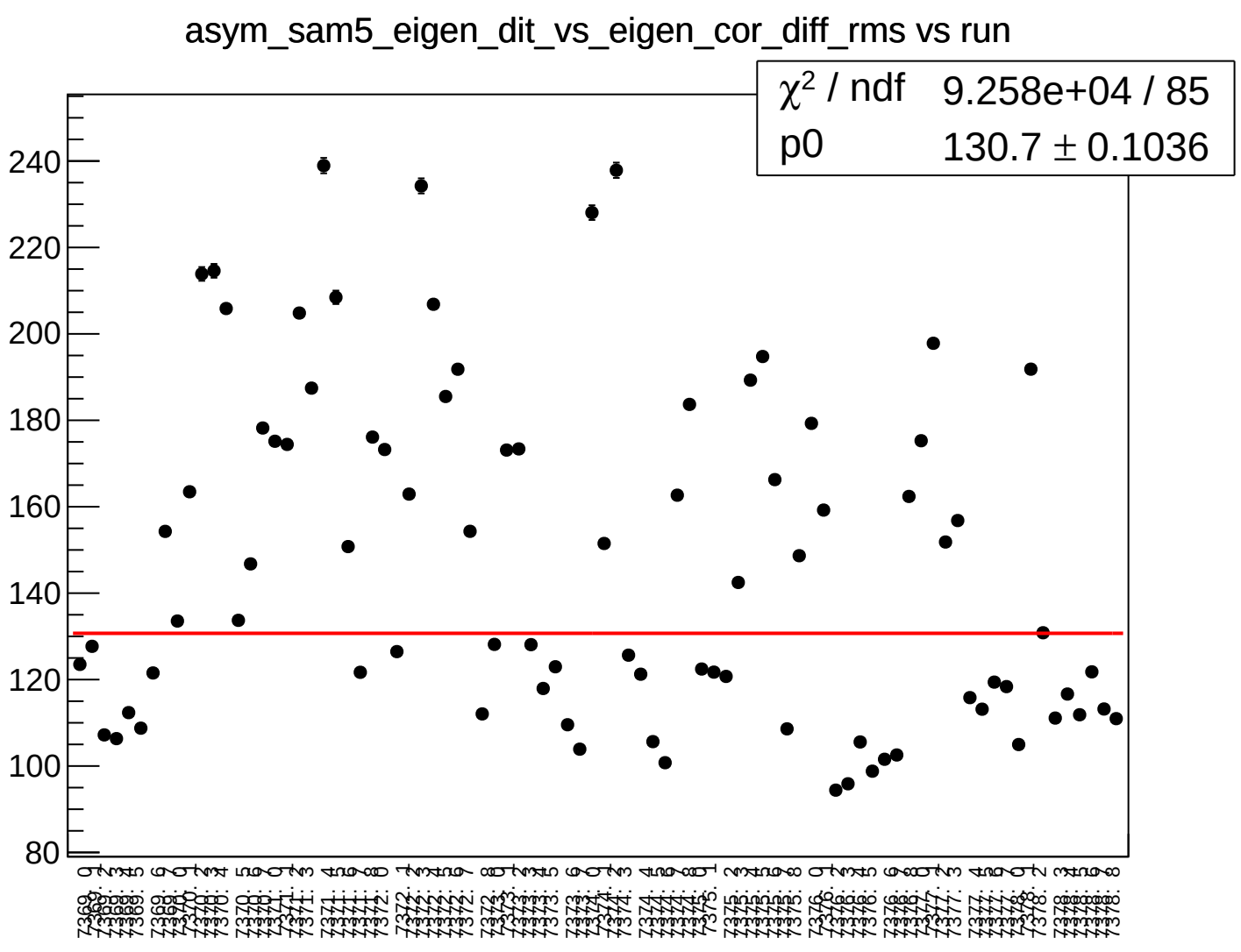

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.29 / 85
p0 −0.03796 ± 0.1465
pull
Entries 86
Mean −43.85
Std Dev 181.3

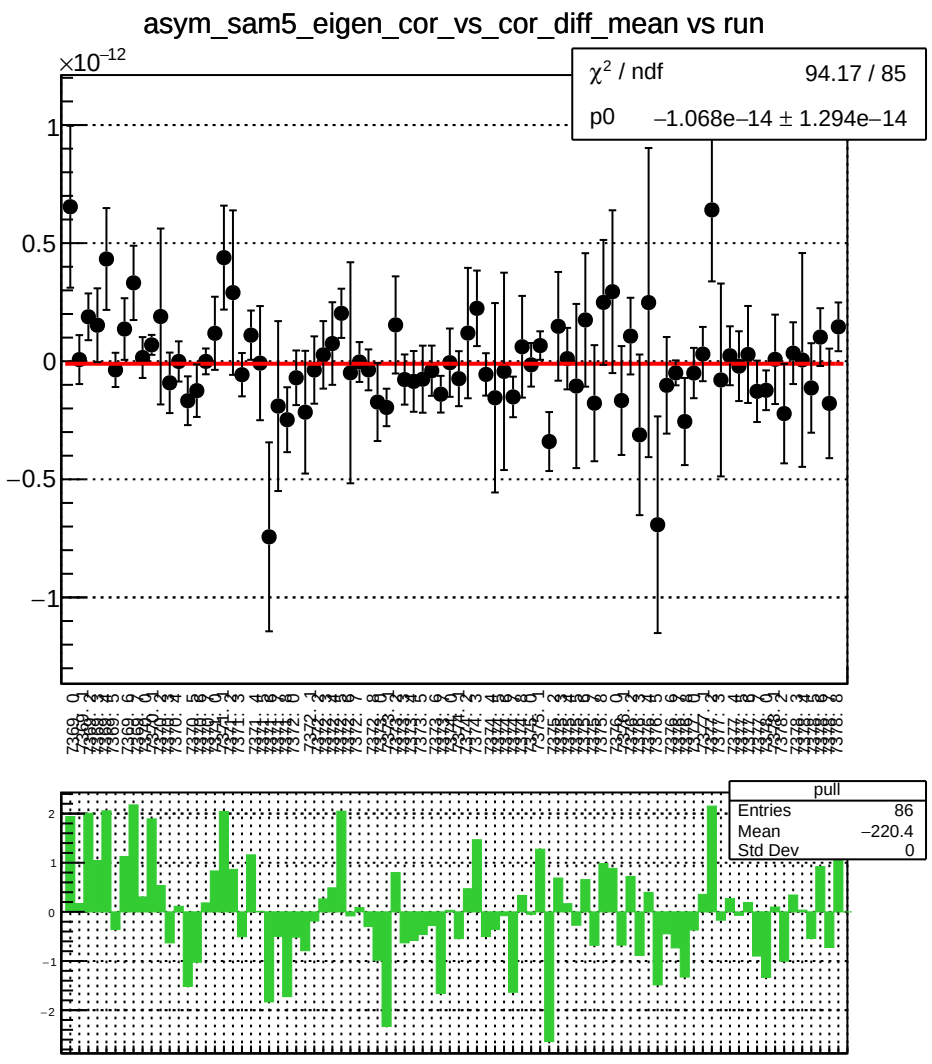

pull1D
Entries 86
Mean 0.001741
Std Dev 1.064

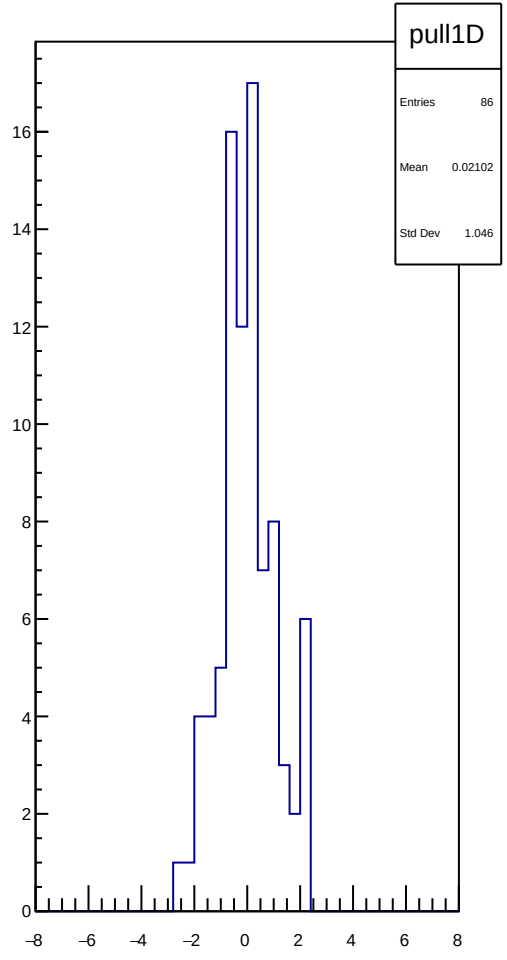

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.258e+04 / 85
p0 130.7 ± 0.1036
240
220
200
180
160
140
120
100
80

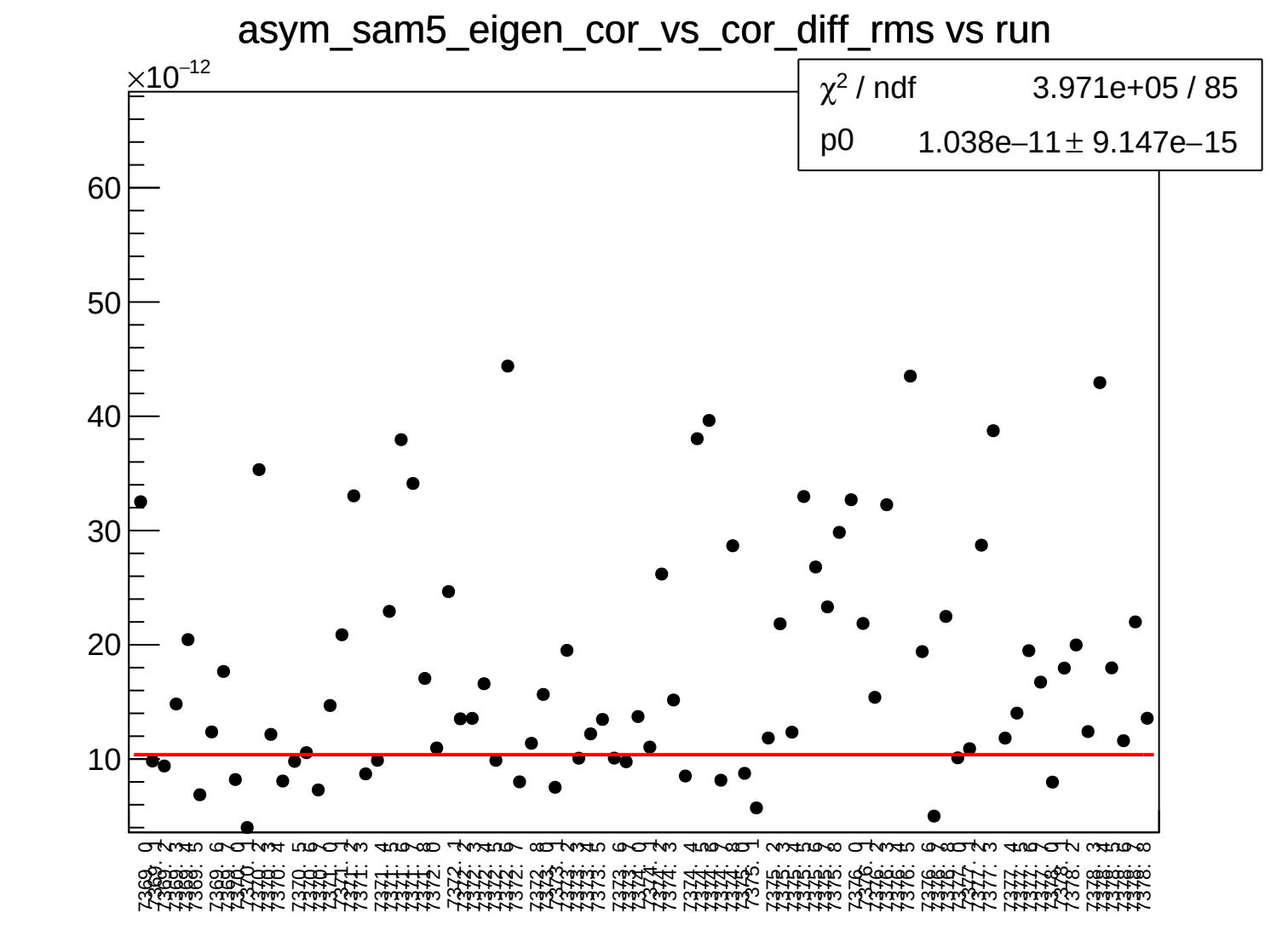

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.29 / 85
p0 −0.03796 ± 0.1465
pull
Entries 86
Mean −43.85
Std Dev 181.3

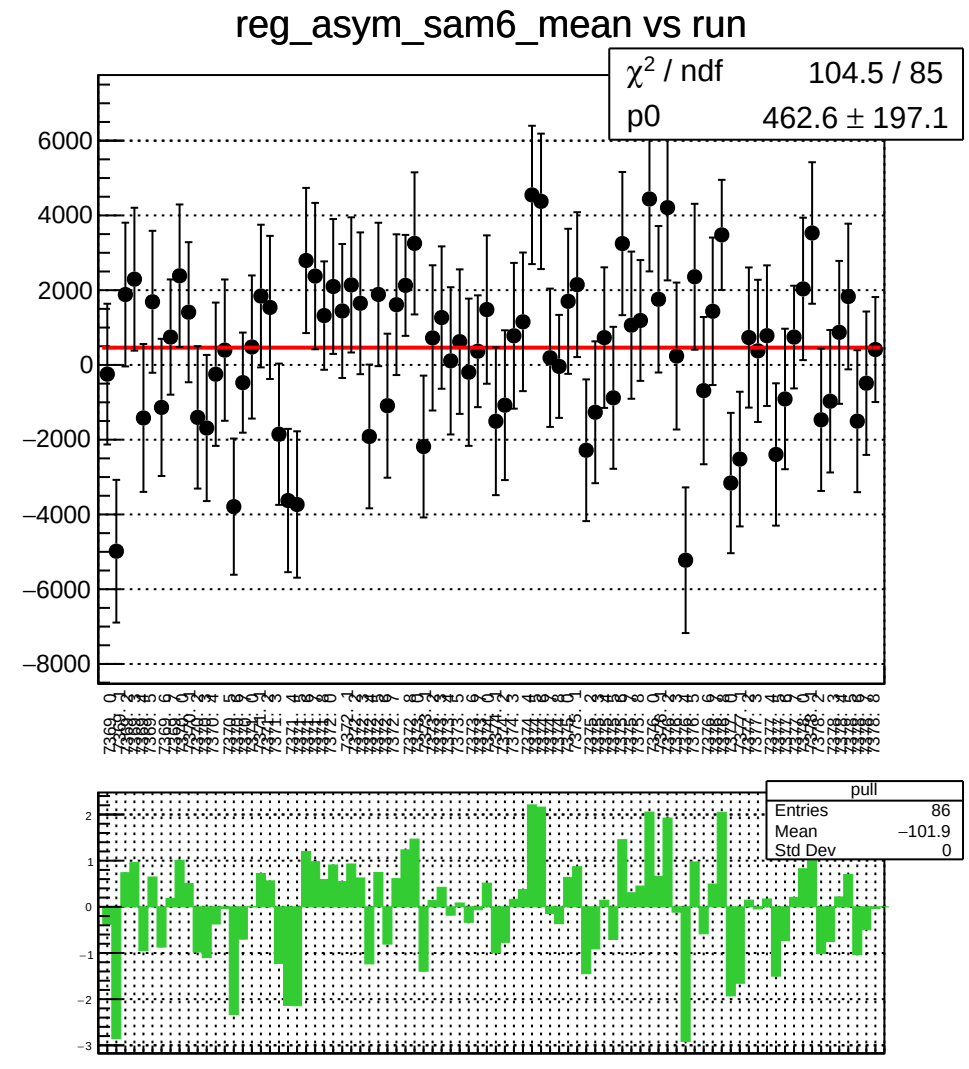

pull1D
Entries 86
Mean 0.001741
Std Dev 1.064

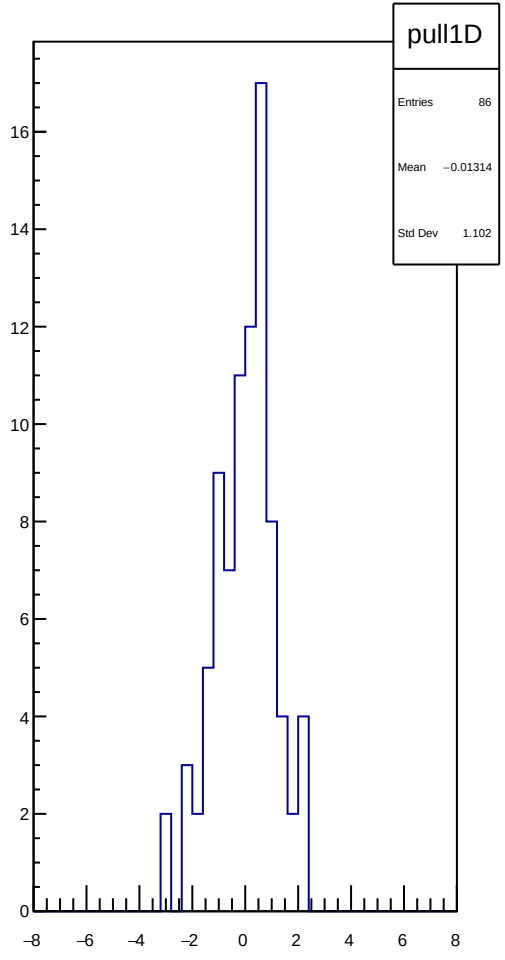

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.258e+04 / 85
p0 130.7 ± 0.1036
240
220
200
180
160
140
120
100
80

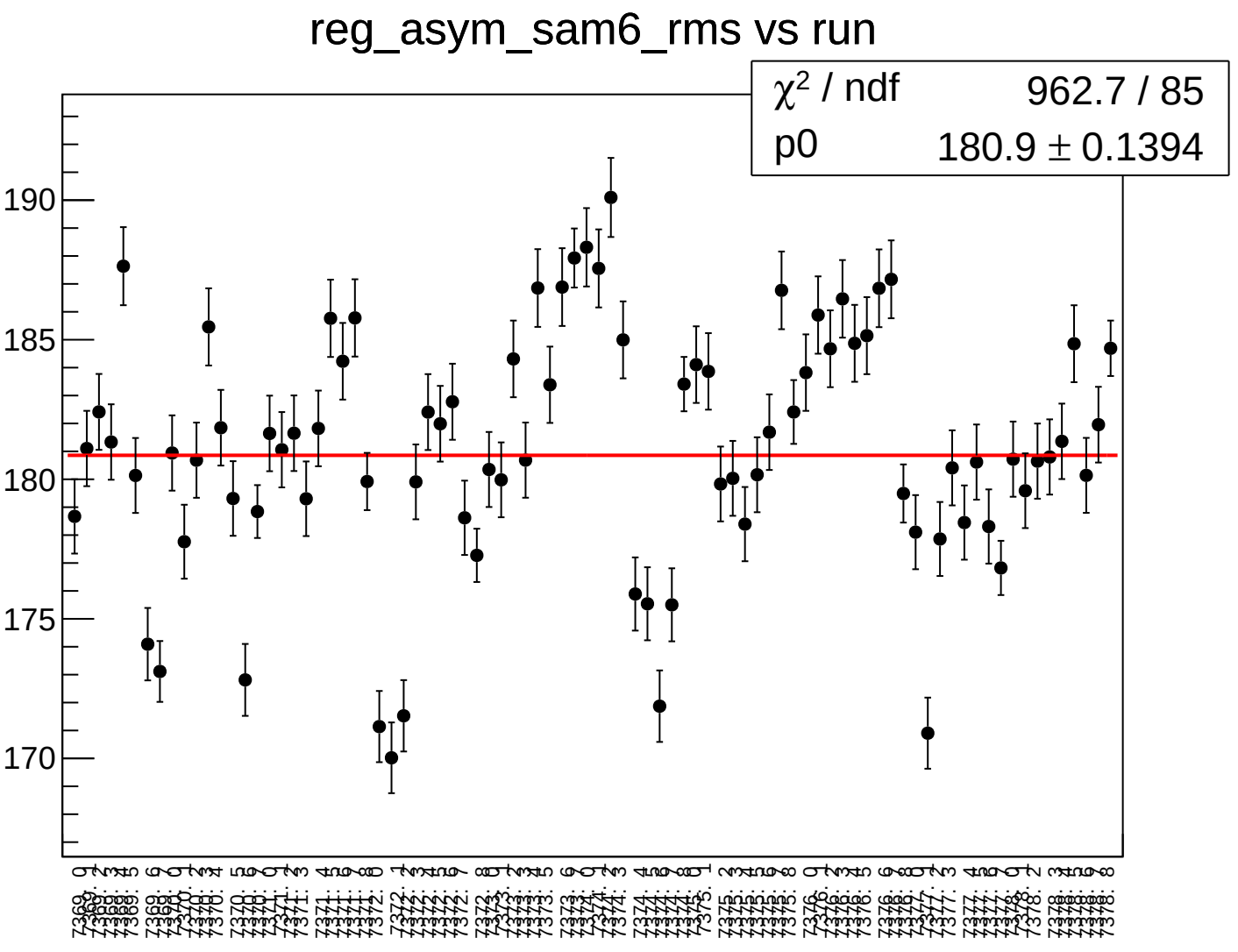

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.17 / 85
p0 −1.068e−14 ± 1.294e−14
pull
Entries 86
Mean −220.4
Std Dev 0

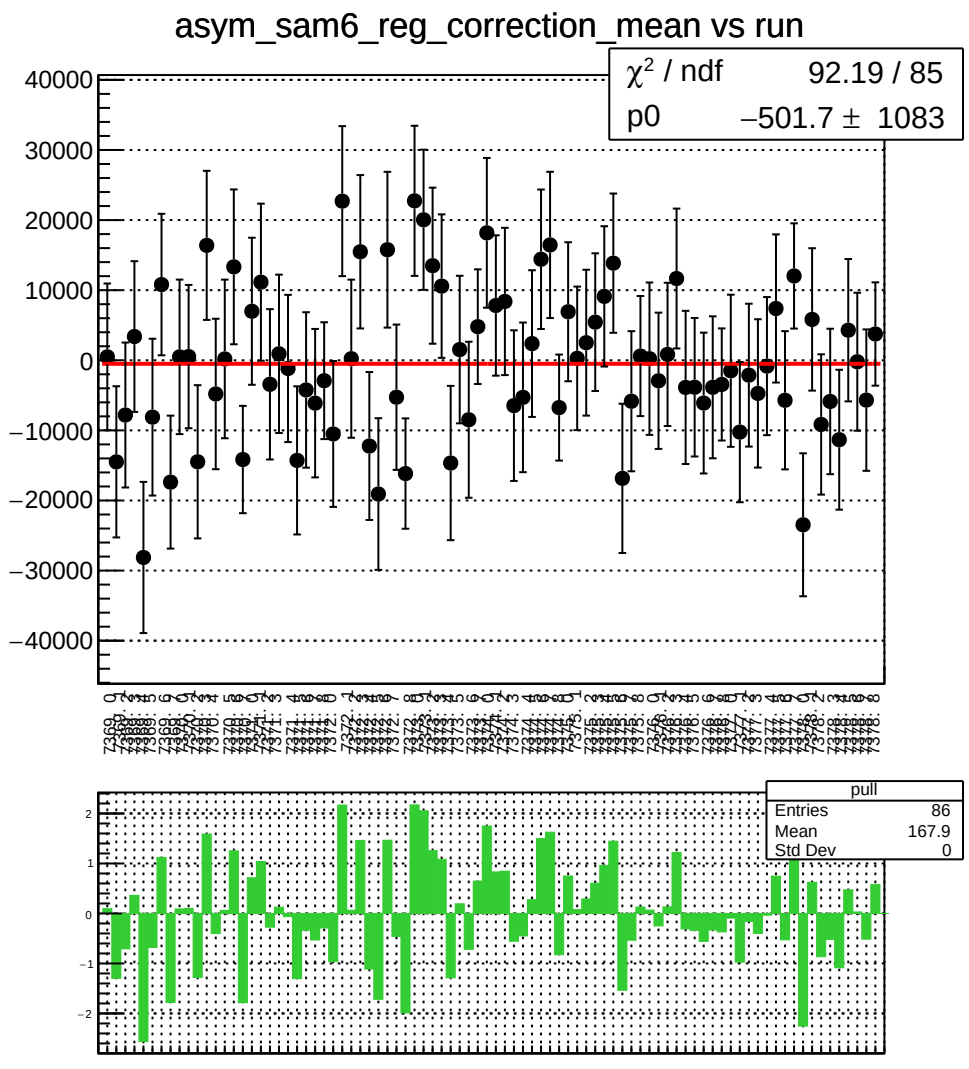

pull1D
Entries 86
Mean 0.02102
Std Dev 1.046

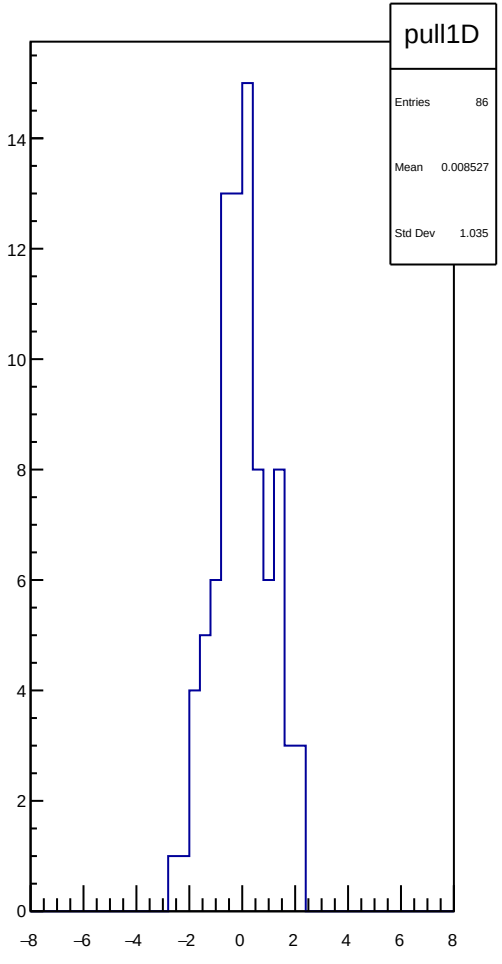

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.971e+05 / 85
p0 1.038e−11 ± 9.147e−15
60
50
40
30
20
10

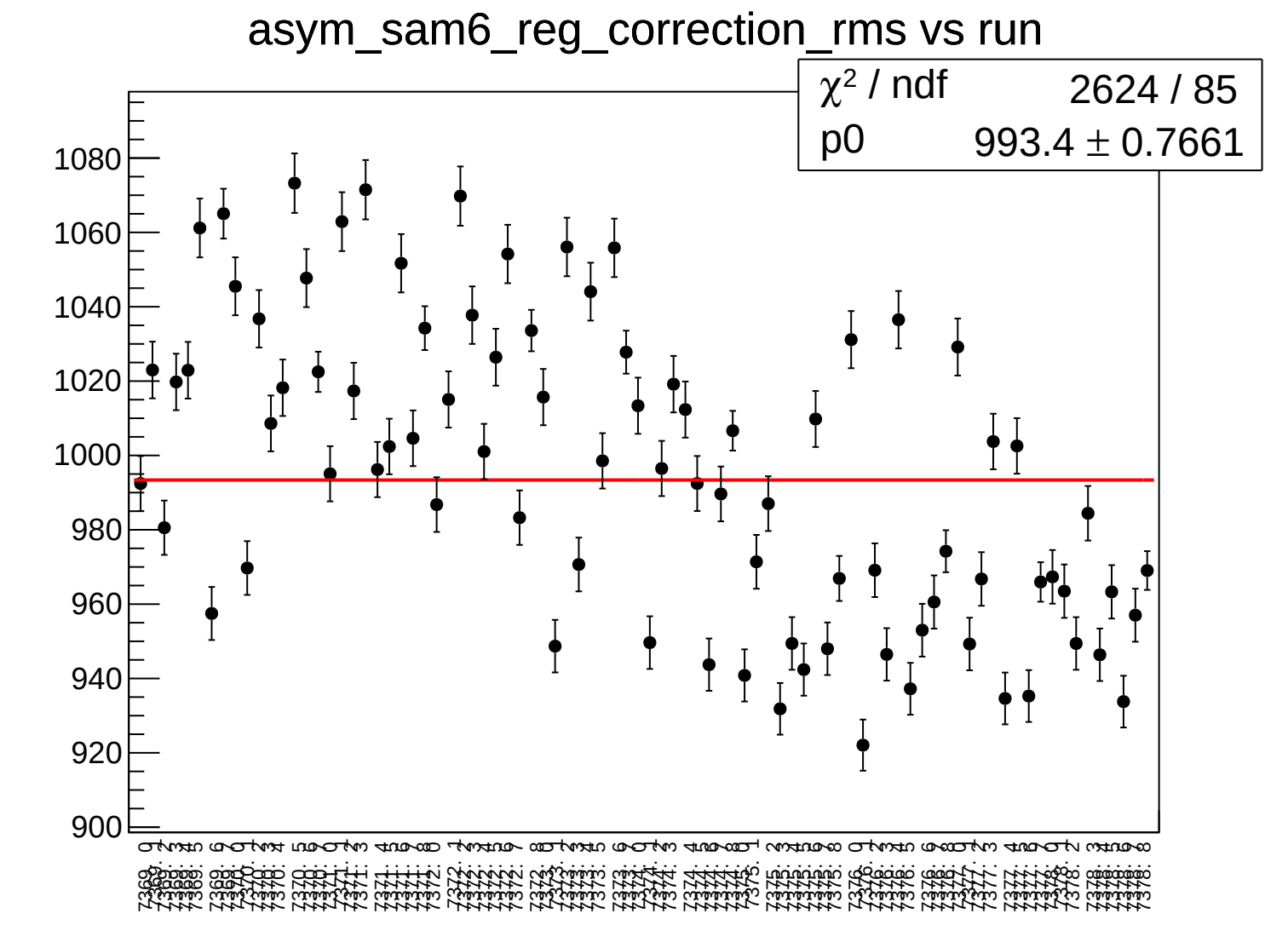

reg_asym_sam6_mean vs run
χ² / ndf 104.5 / 85
p0 462.6 ± 197.1
pull
Entries 86
Mean −101.9
Std Dev 0

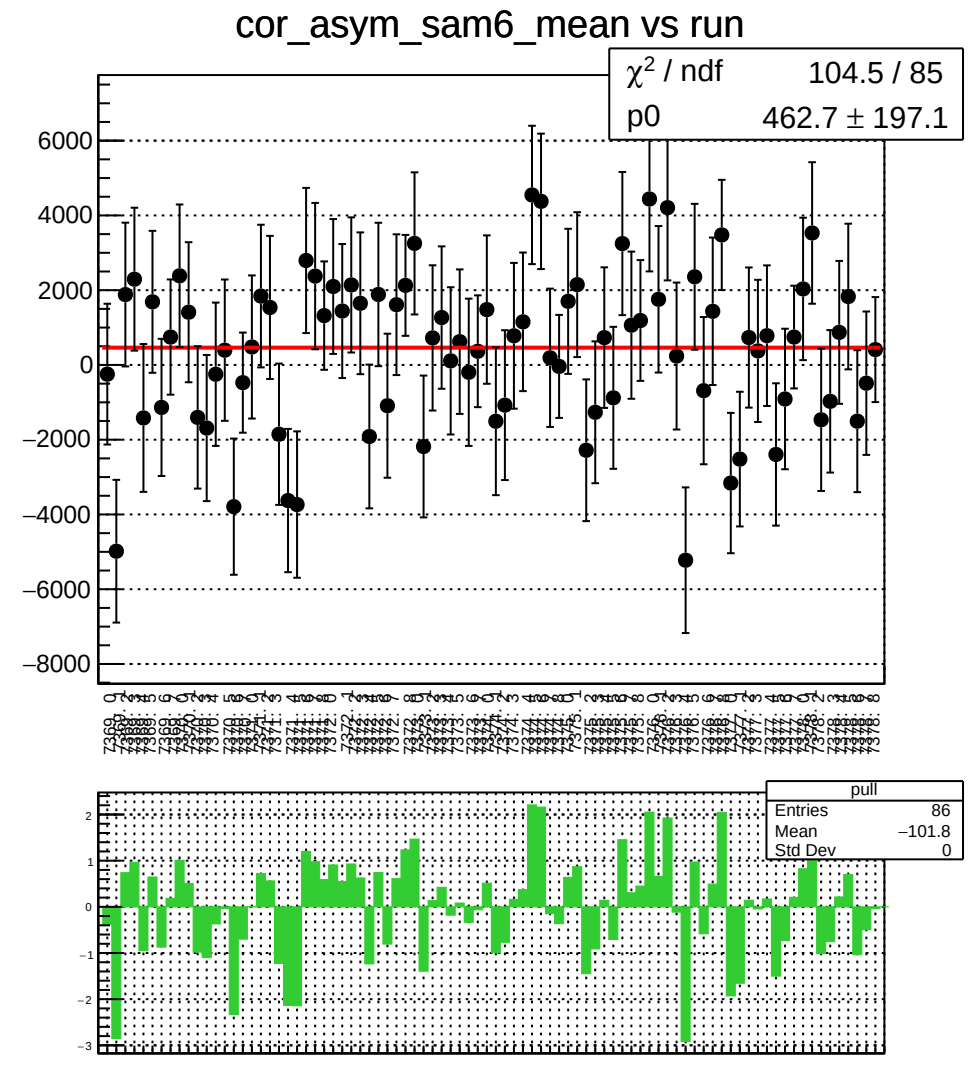

pull1D
Entries 86
Mean −0.01314
Std Dev 1.102

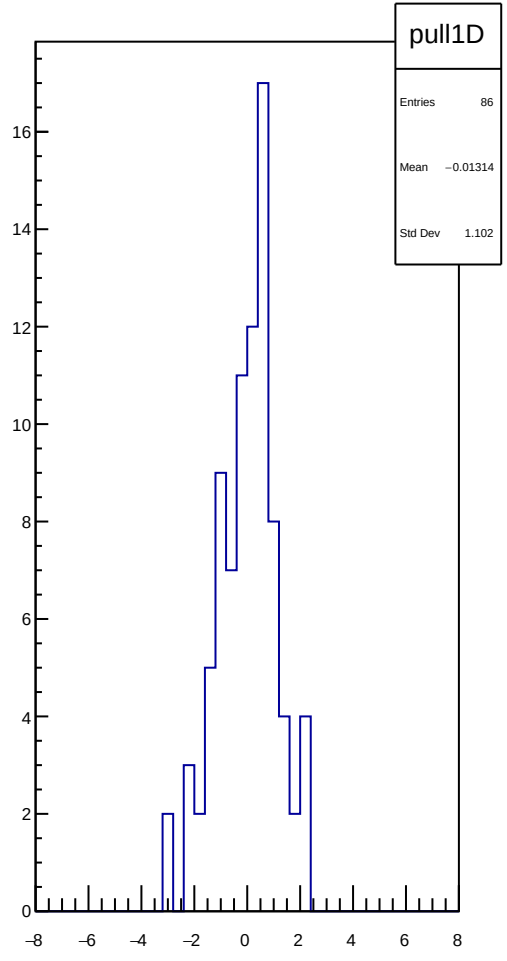

reg_asym_sam6_rms vs run
χ² / ndf 962.7 / 85
p0 180.9 ± 0.1394
190
185
180
175
170

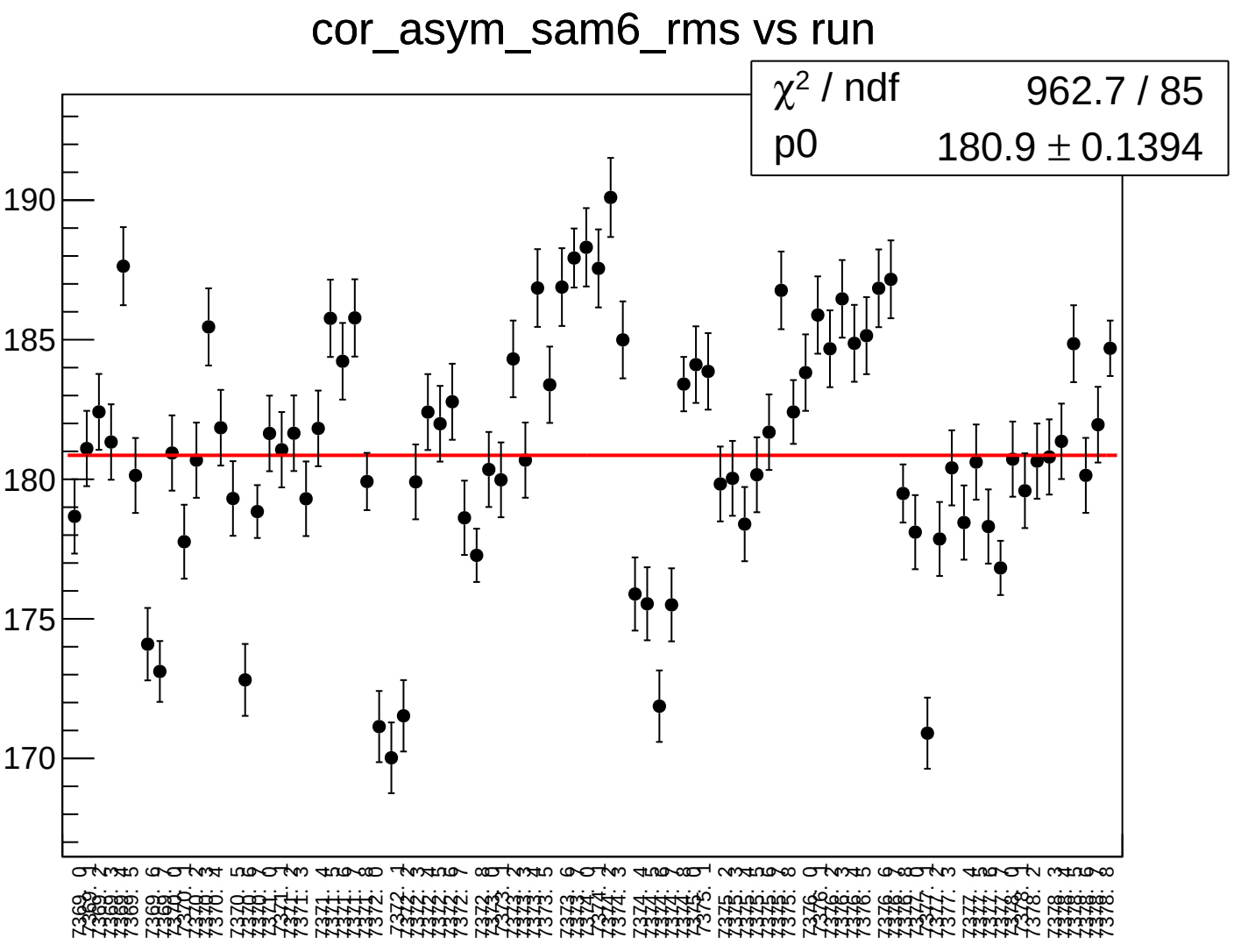

asym_sam6_reg_correction_mean vs run
χ² / ndf 92.19 / 85
p0 −501.7 ± 1083
pull
Entries 86
Mean 167.9
Std Dev 0

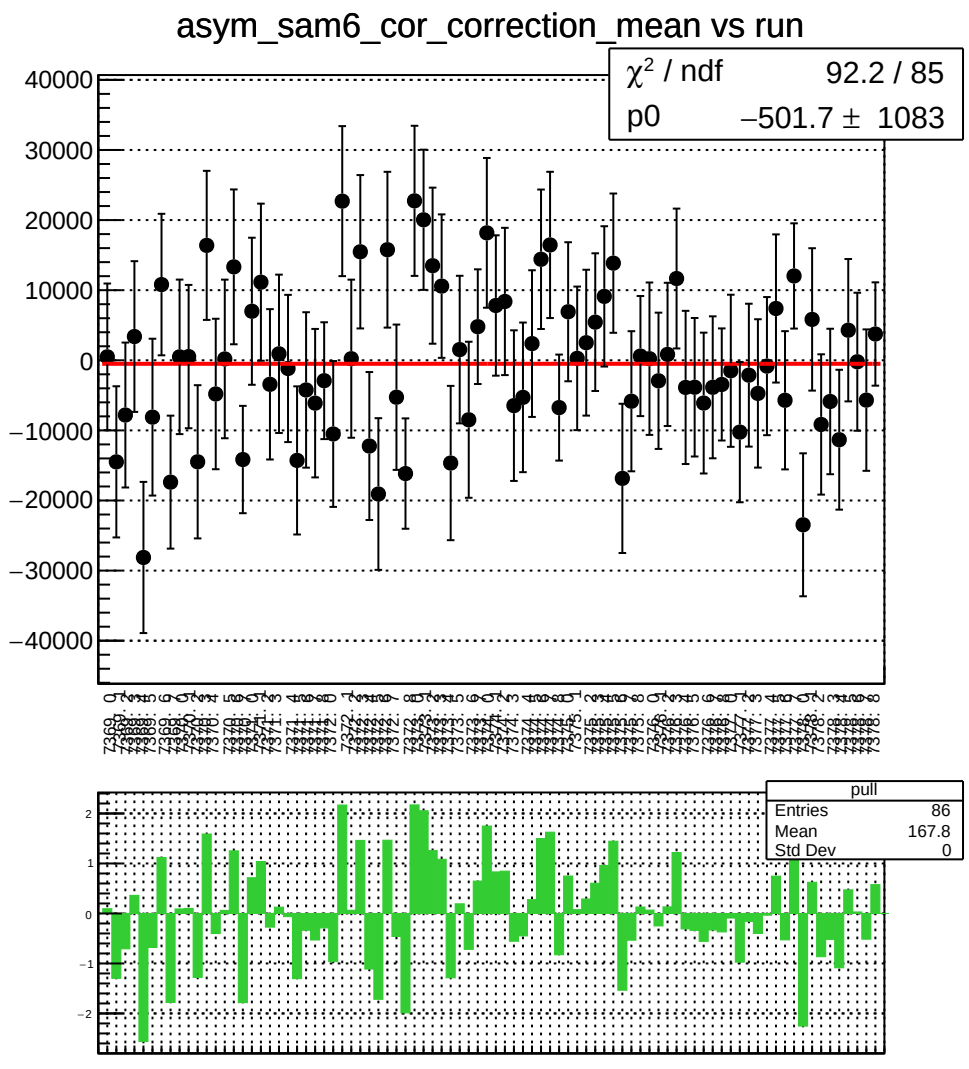

pull1D
Entries 86
Mean 0.008527
Std Dev 1.035

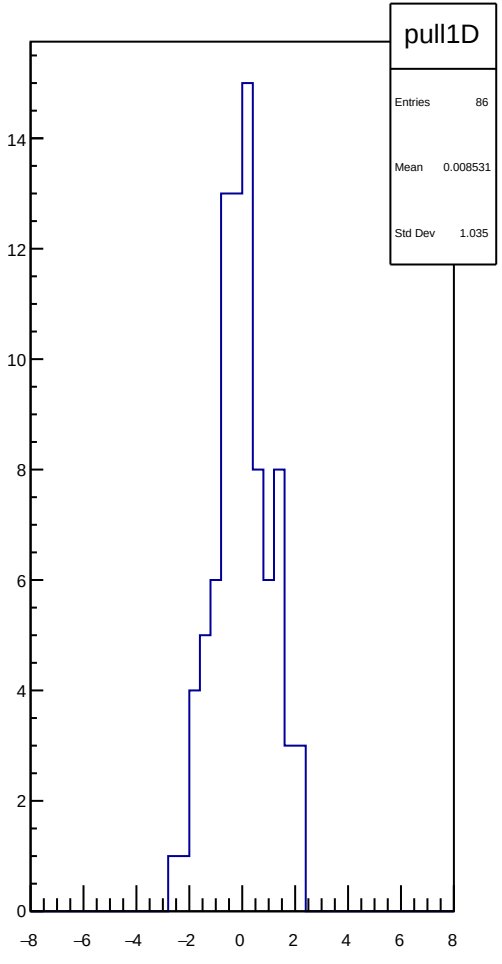

asym_sam6_reg_correction_rms vs run
χ² / ndf 2624 / 85
p0 993.4 ± 0.7661
1080
1060
1040
1020
1000
980
960
940
920
900

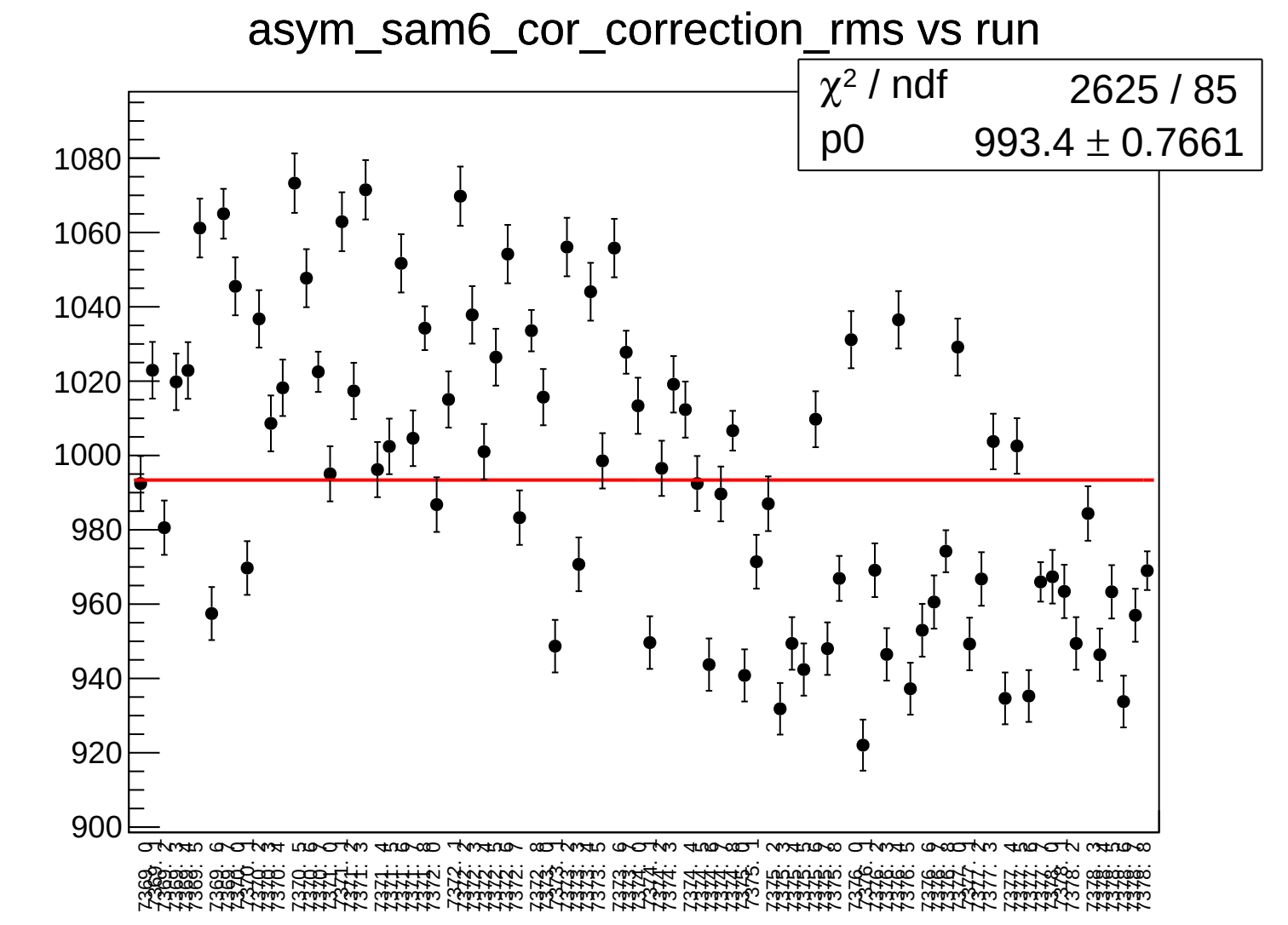

cor_asym_sam6_mean vs run
χ² / ndf 104.5 / 85
p0 462.7 ± 197.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −101.8
Std Dev 0
2
1
0
−1
−2
−3

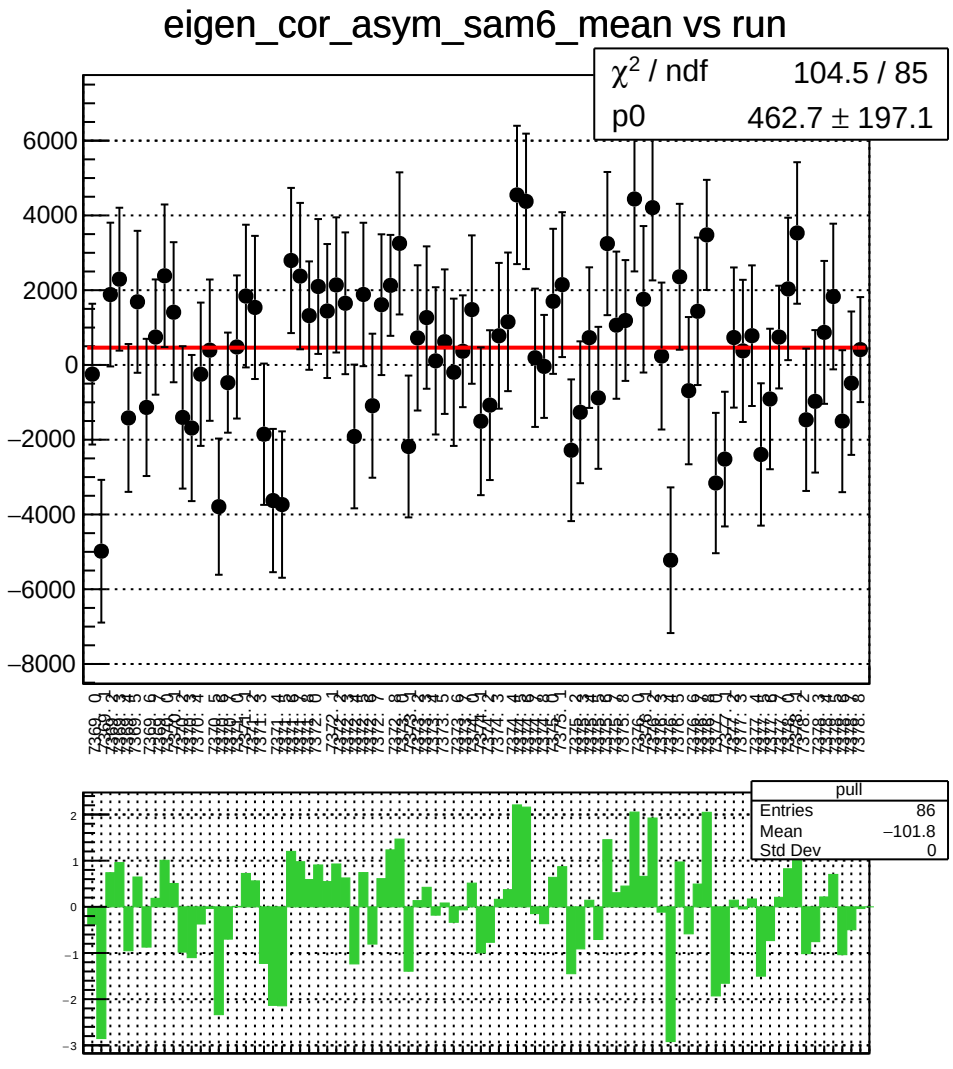

pull1D
Entries 86
Mean −0.01314
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

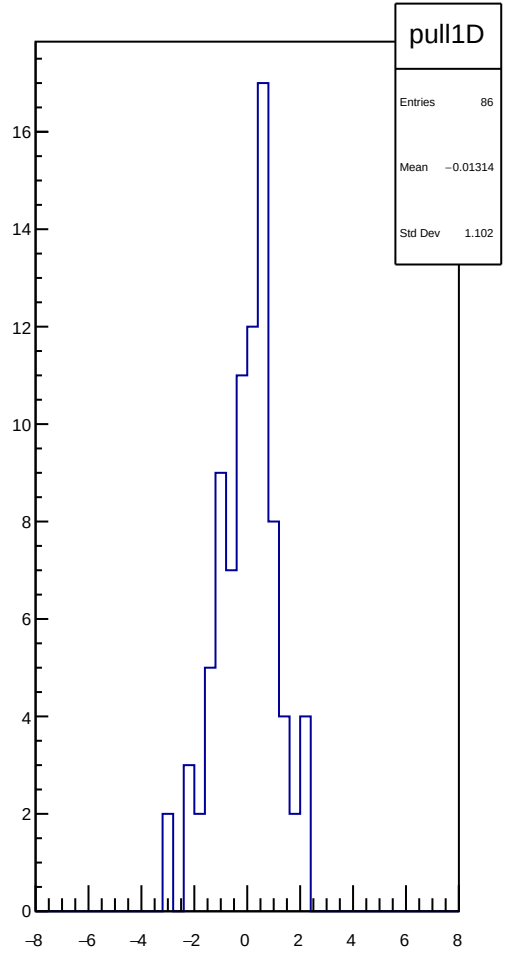

cor_asym_sam6_rms vs run
χ² / ndf 962.7 / 85
p0 180.9 ± 0.1394
190
185
180
175
170

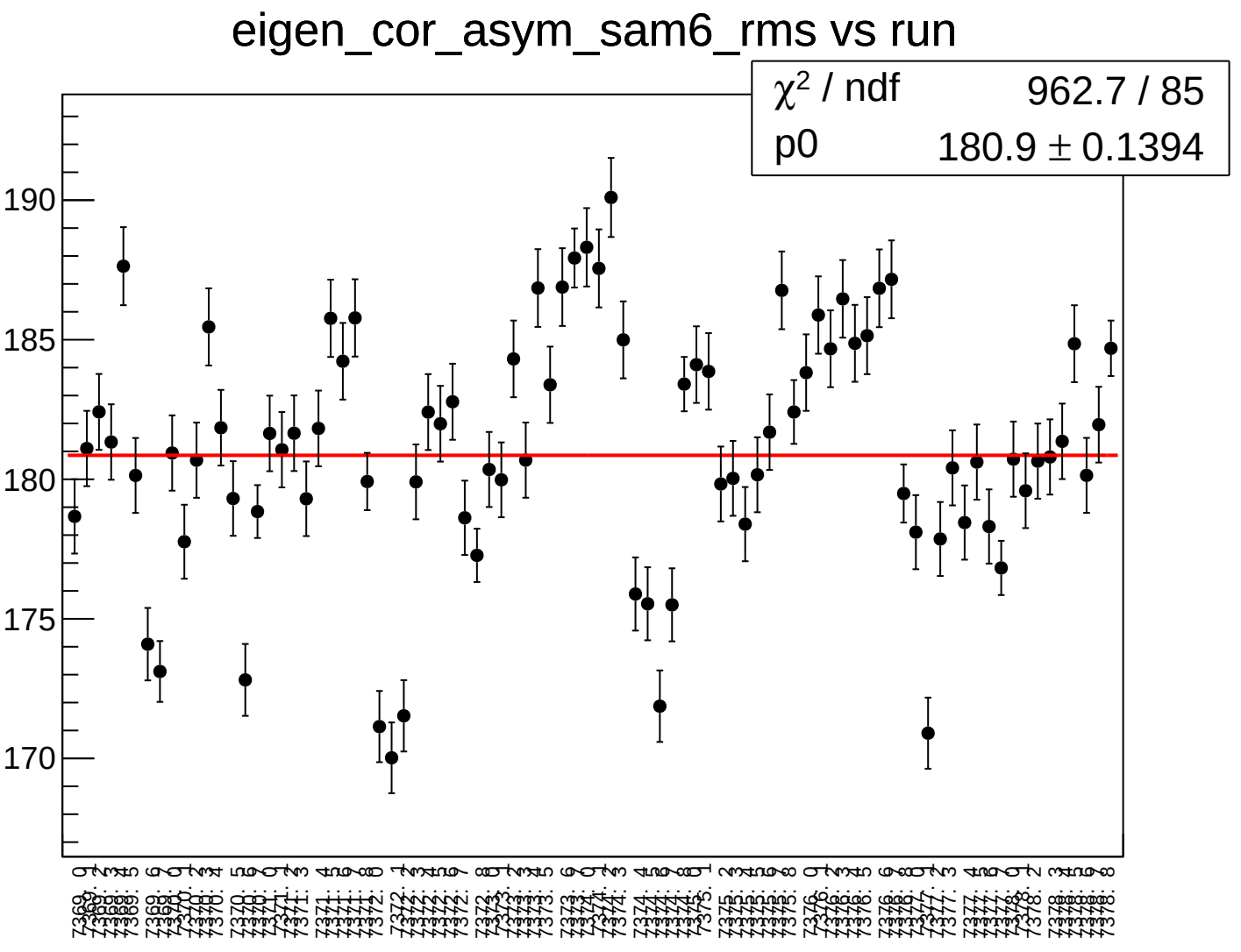

asym_sam6_cor_correction_mean vs run
χ² / ndf 92.2 / 85
p0 −501.7 ± 1083
pull
Entries 86
Mean 167.8
Std Dev 0

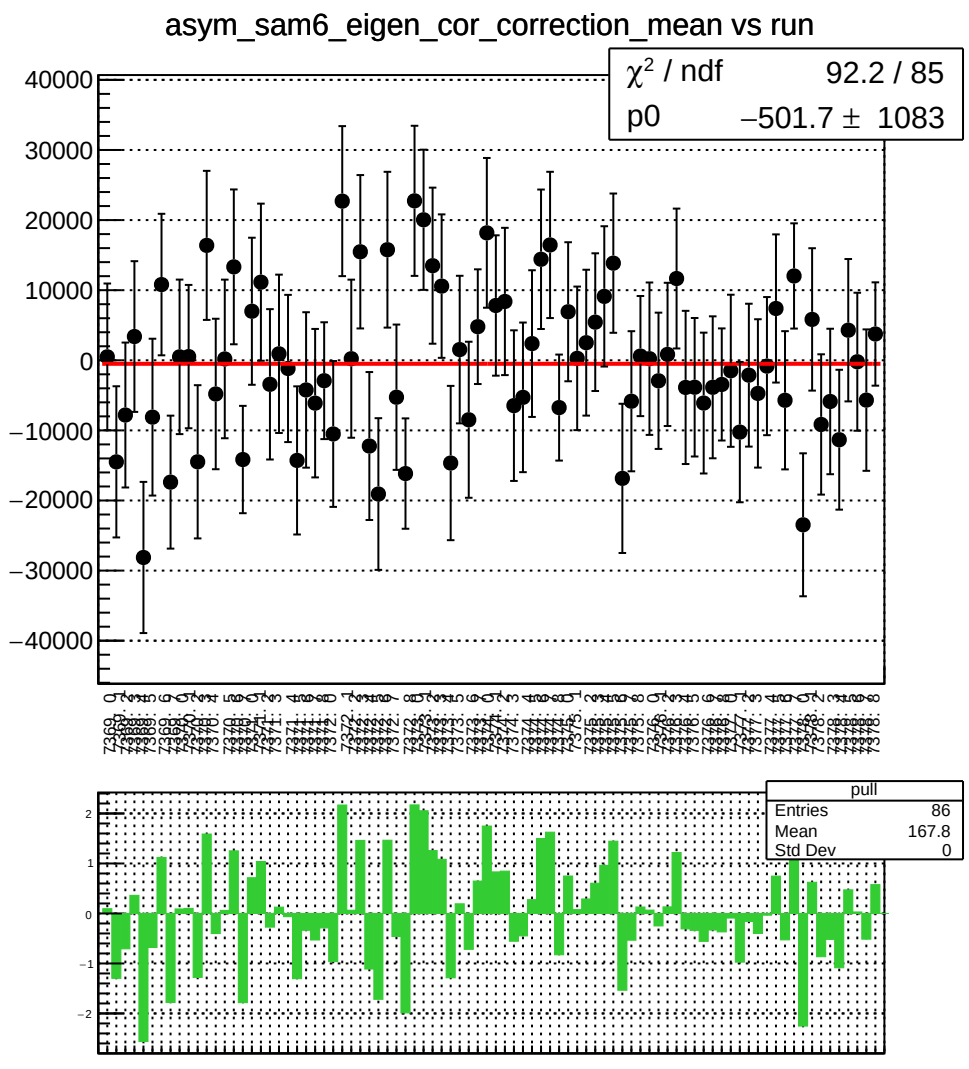

pull1D
Entries 86
Mean 0.008531
Std Dev 1.035

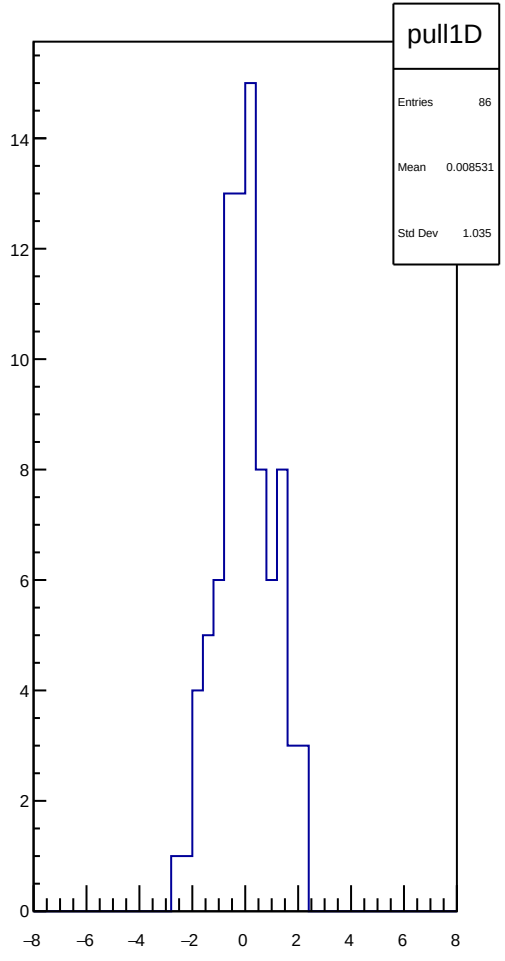

asym_sam6_cor_correction_rms vs run
χ² / ndf 2625 / 85
p0 993.4 ± 0.7661
1080
1060
1040
1020
1000
980
960
940
920
900

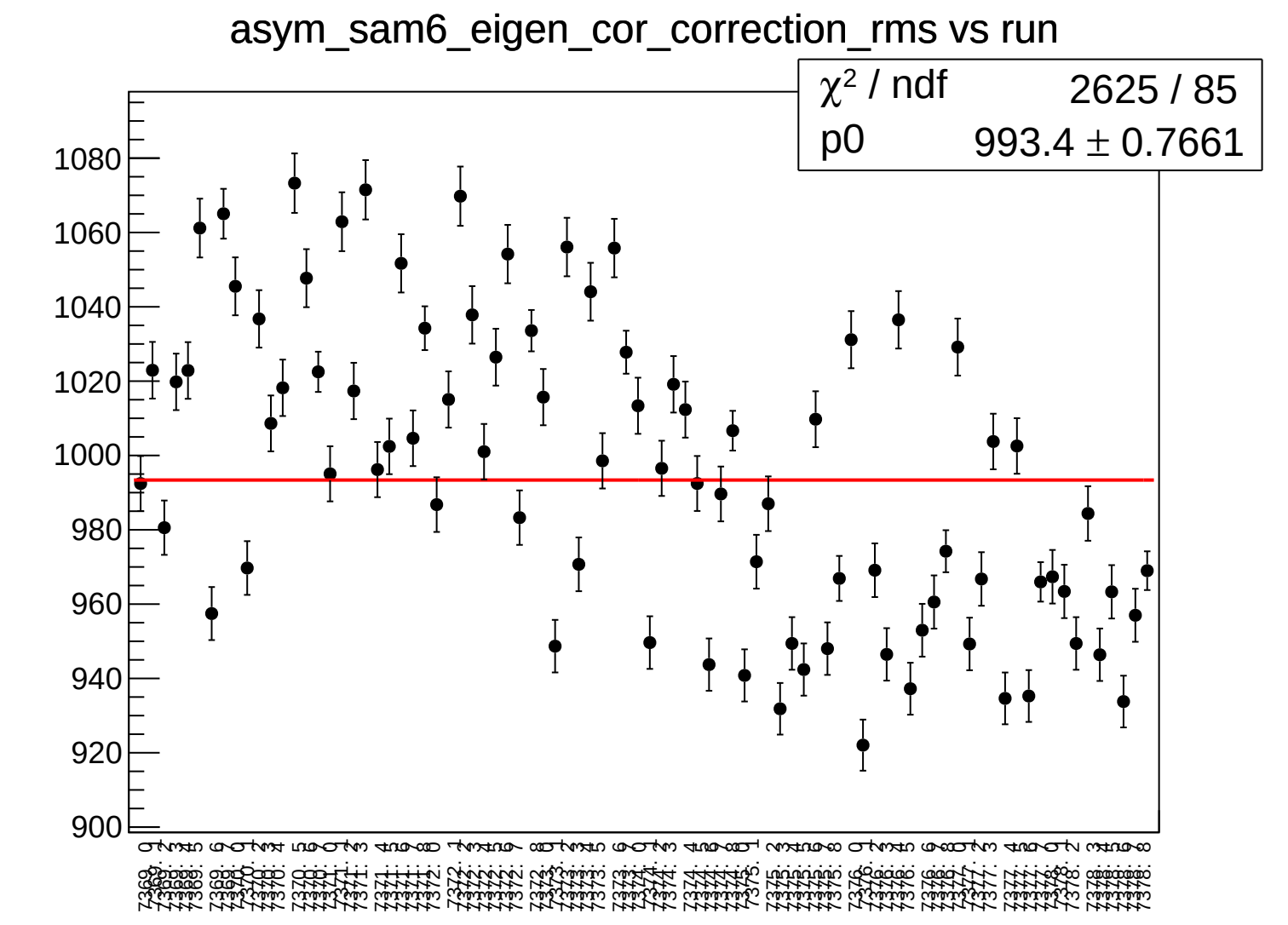

eigen_cor_asym_sam6_mean vs run
χ² / ndf 104.5 / 85
p0 462.7 ± 197.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −101.8
Std Dev 0
2
1
0
−1
−2
−3

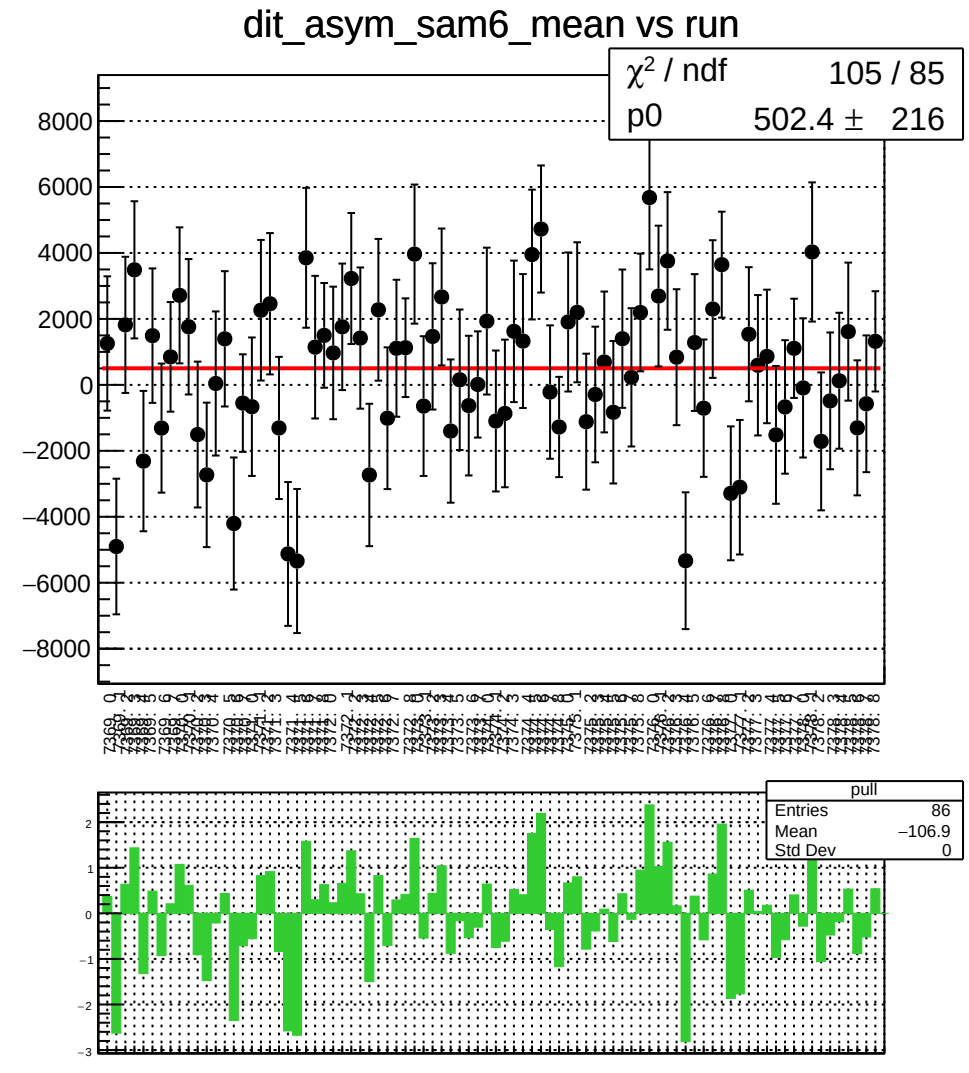

pull1D
Entries 86
Mean −0.01314
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

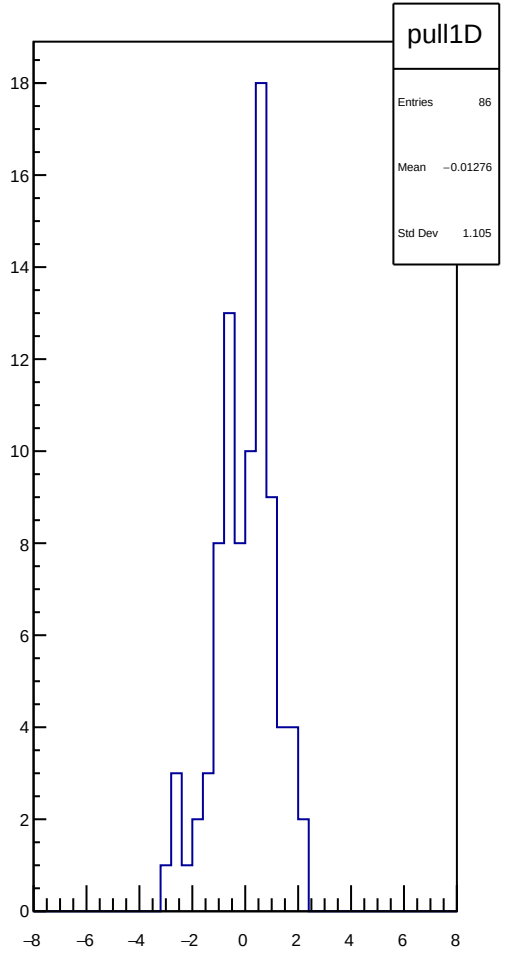

eigen_cor_asym_sam6_rms vs run
χ² / ndf 962.7 / 85
p0 180.9 ± 0.1394
190
185
180
175
170

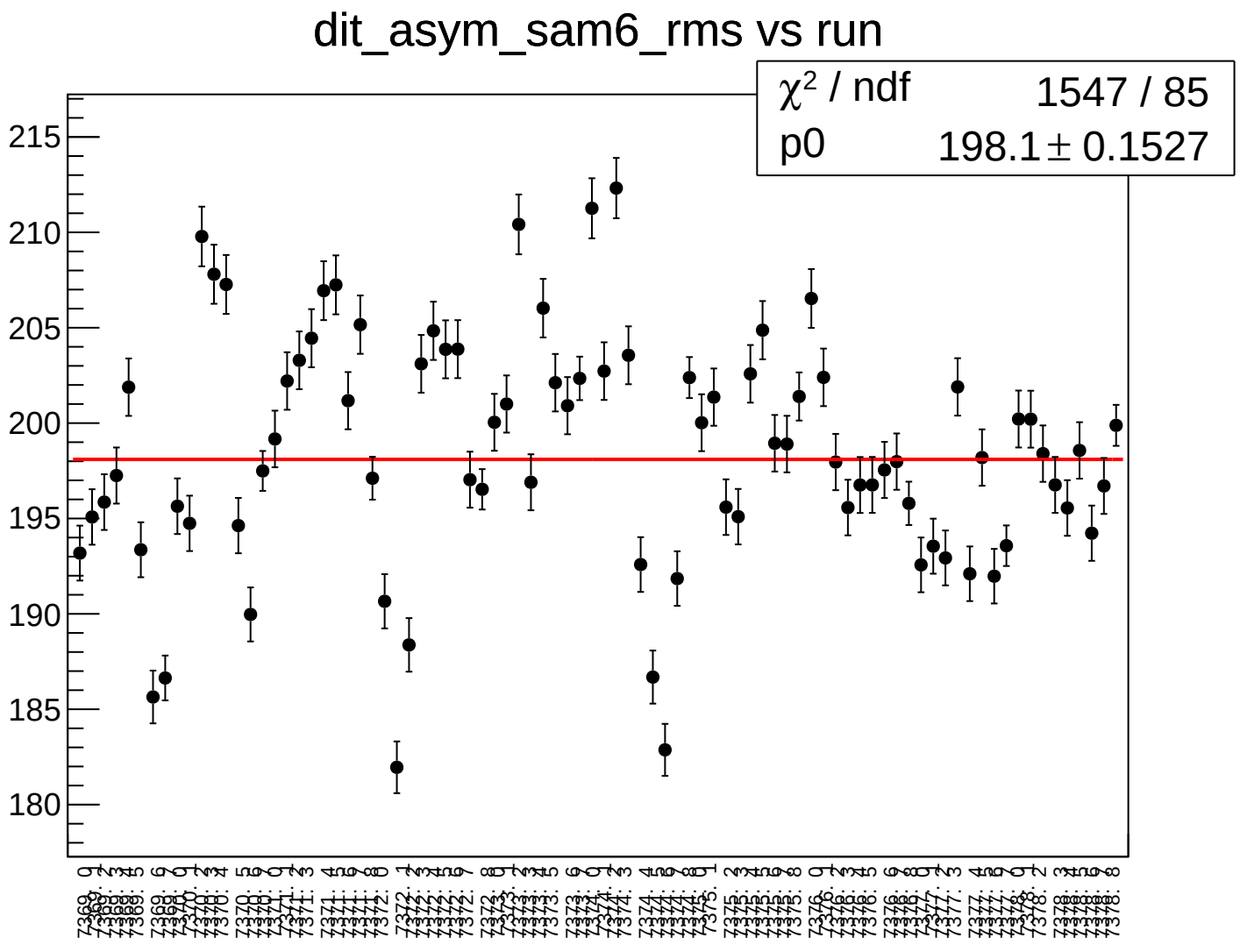

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 92.2 / 85
p0 −501.7 ± 1083
pull
Entries 86
Mean 167.8
Std Dev 0

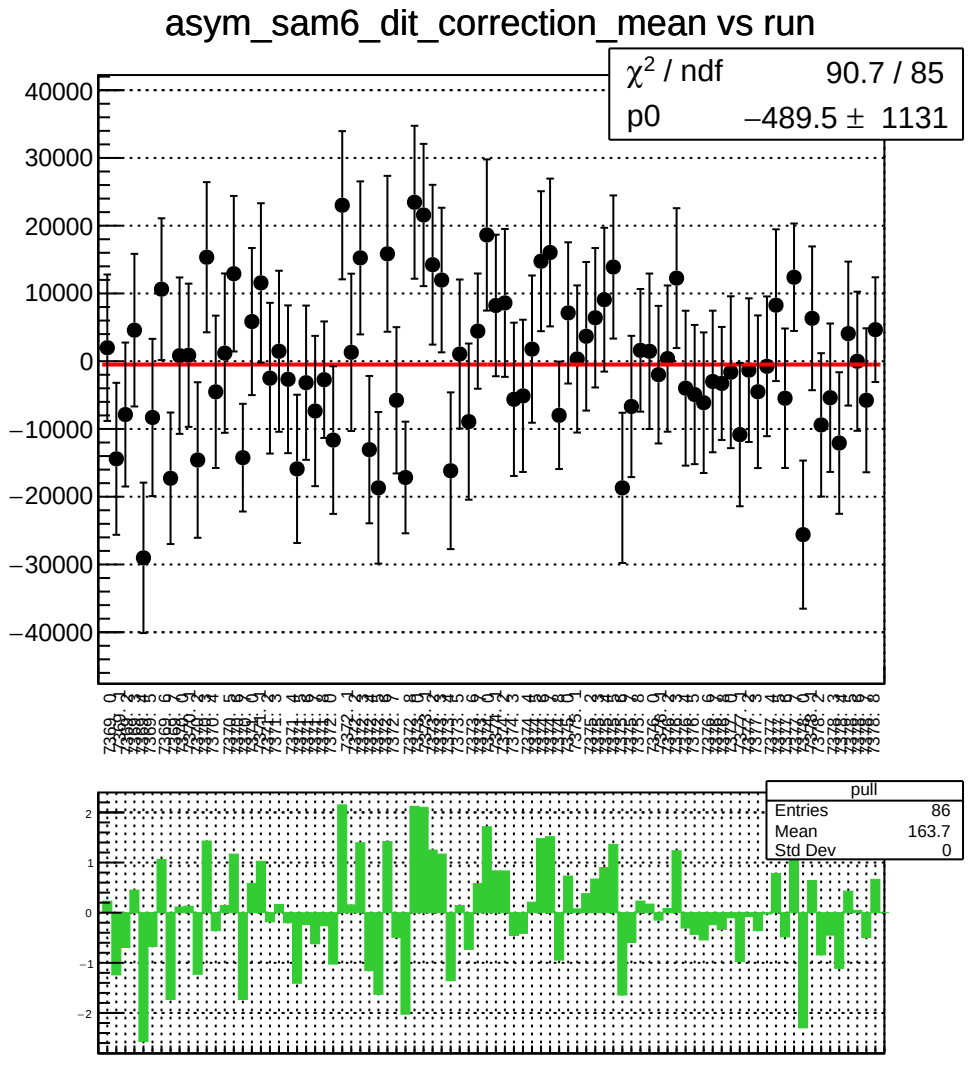

pull1D
Entries 86
Mean 0.008531
Std Dev 1.035

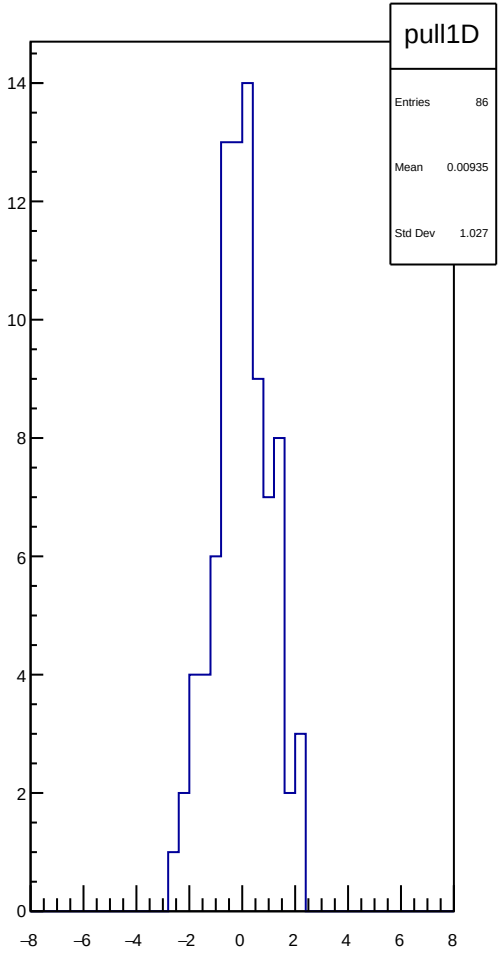

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 2625 / 85
p0 993.4 ± 0.7661
1080
1060
1040
1020
1000
980
960
940
920
900

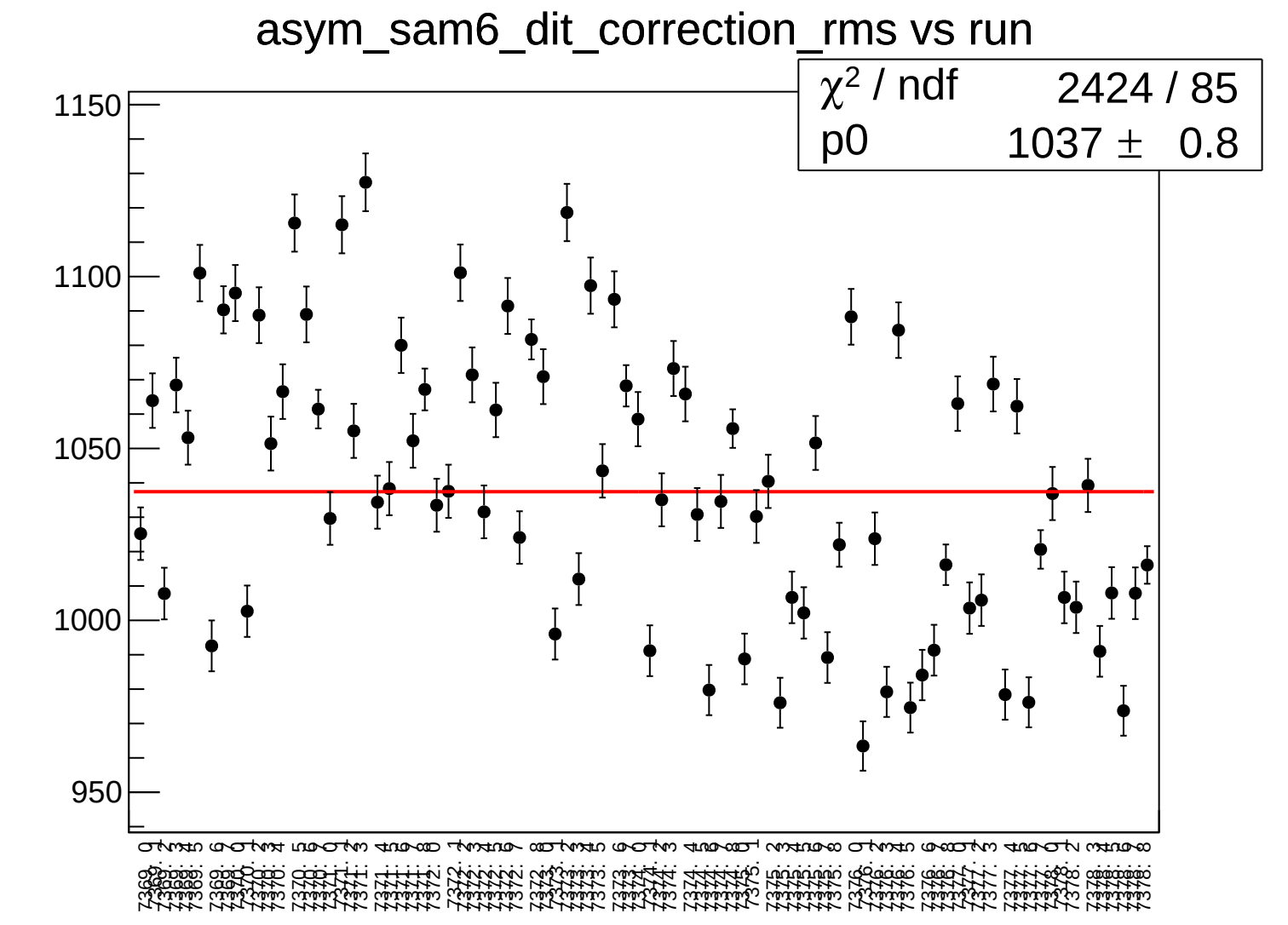

dit_asym_sam6_mean vs run
χ² / ndf 105 / 85
p0 502.4 ± 216
pull
Entries 86
Mean −106.9
Std Dev 0

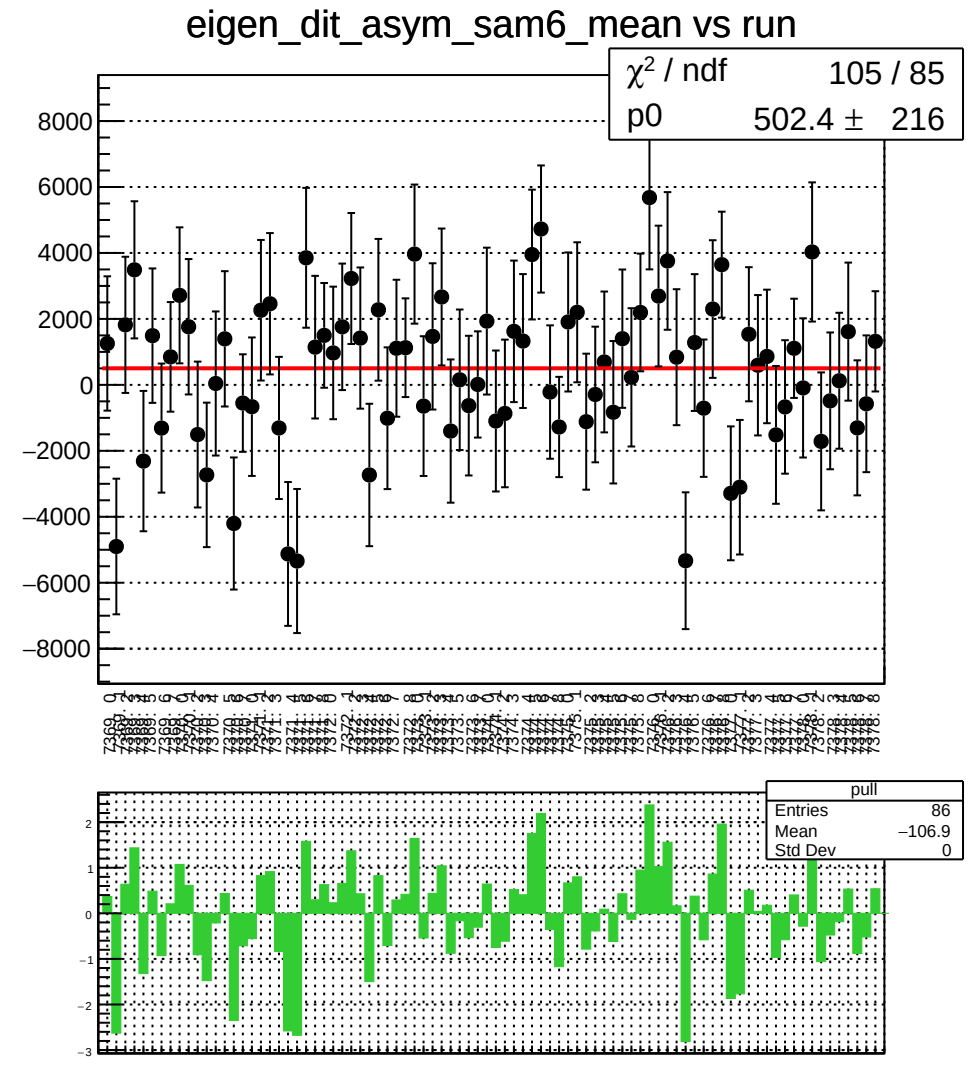

pull1D
Entries 86
Mean −0.01276
Std Dev 1.105

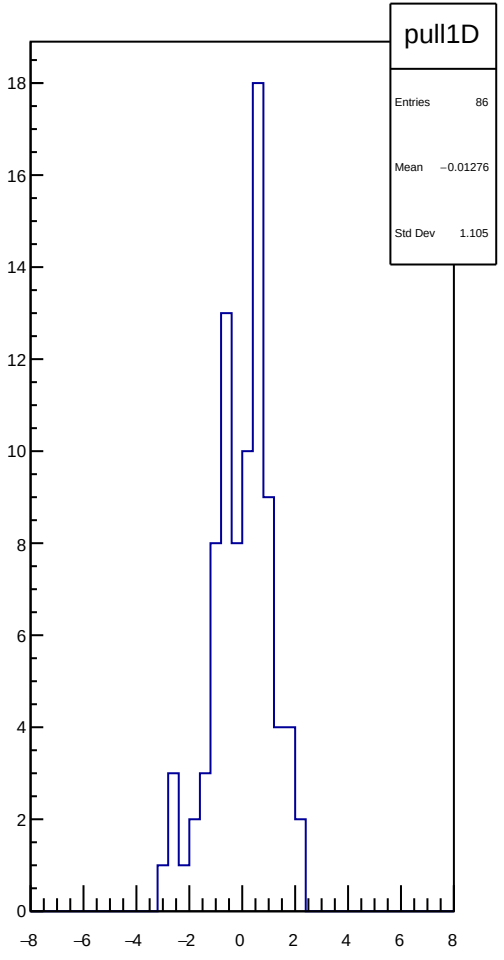

dit_asym_sam6_rms vs run
χ² / ndf 1547 / 85
p0 198.1 ± 0.1527
215
210
205
200
195
190
185
180

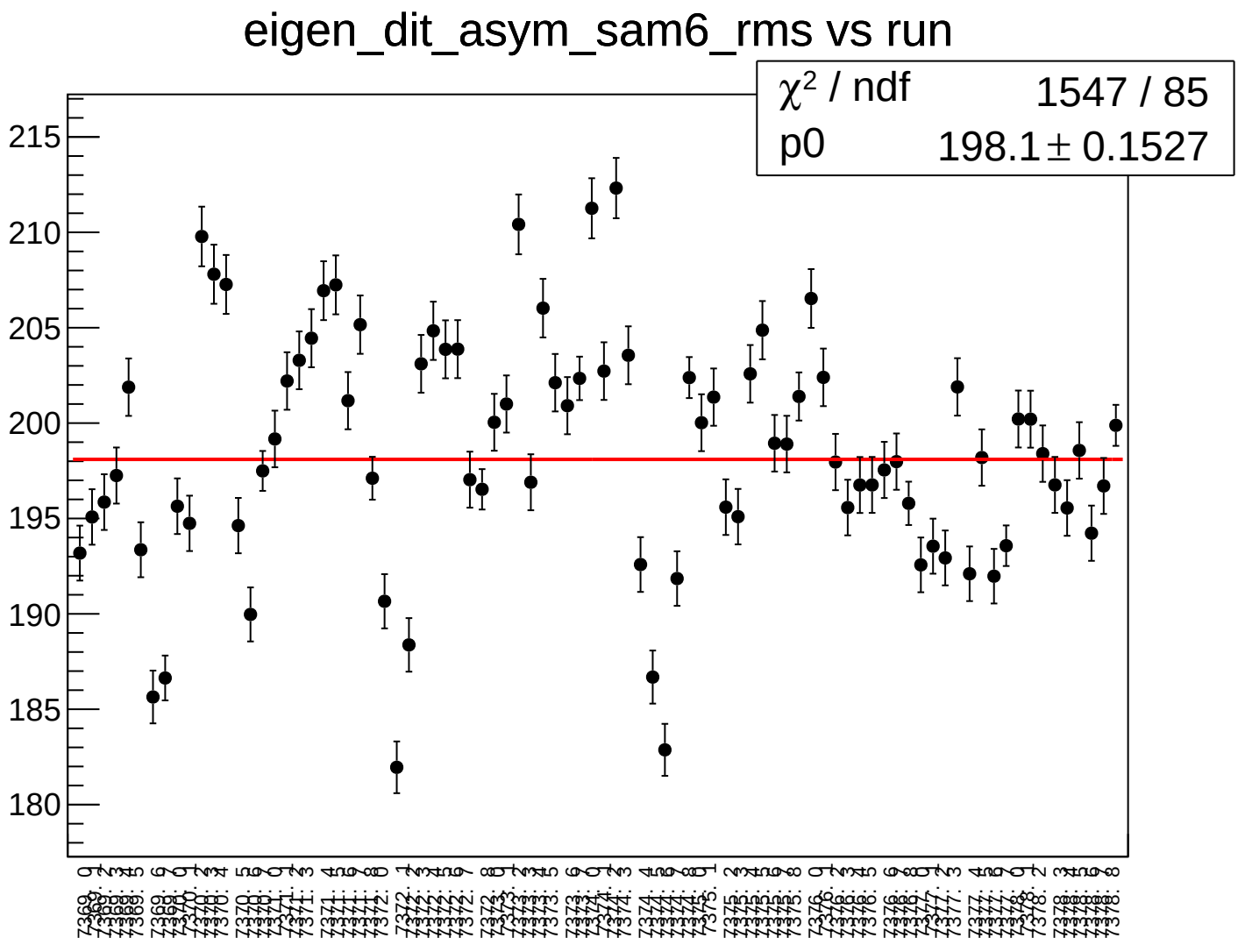

asym_sam6_dit_correction_mean vs run
χ² / ndf 90.7 / 85
p0 −489.5 ± 1131
pull
Entries 86
Mean 163.7
Std Dev 0

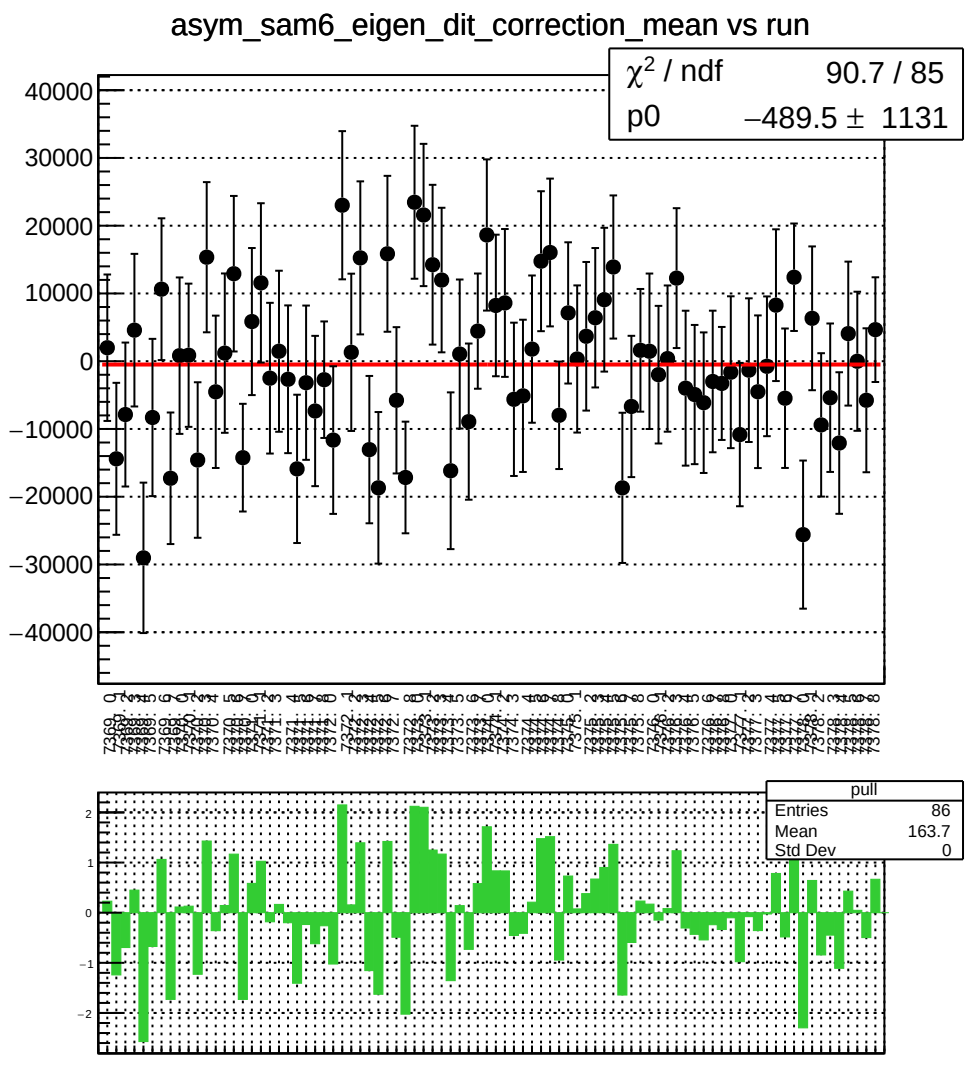

pull1D
Entries 86
Mean 0.00935
Std Dev 1.027

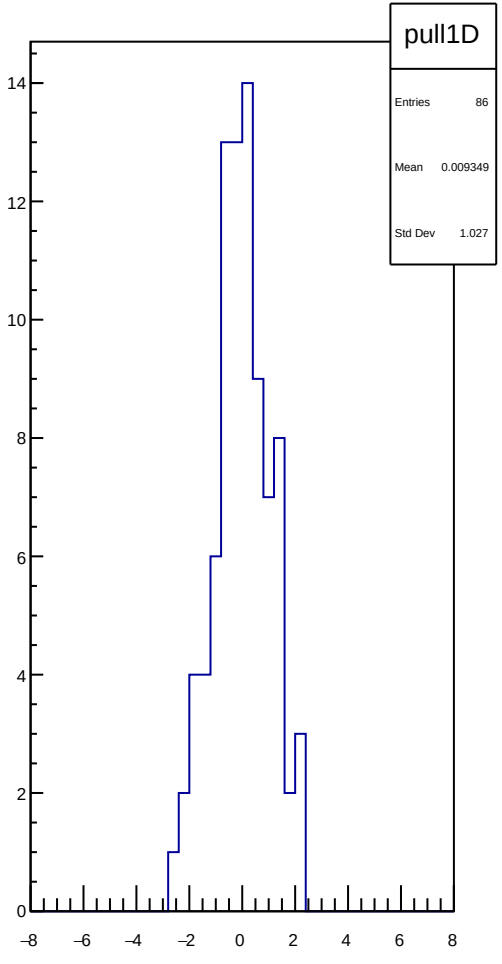

asym_sam6_dit_correction_rms vs run
χ² / ndf 2424 / 85
p0 1037 ± 0.8
1150
1100
1050
1000
950

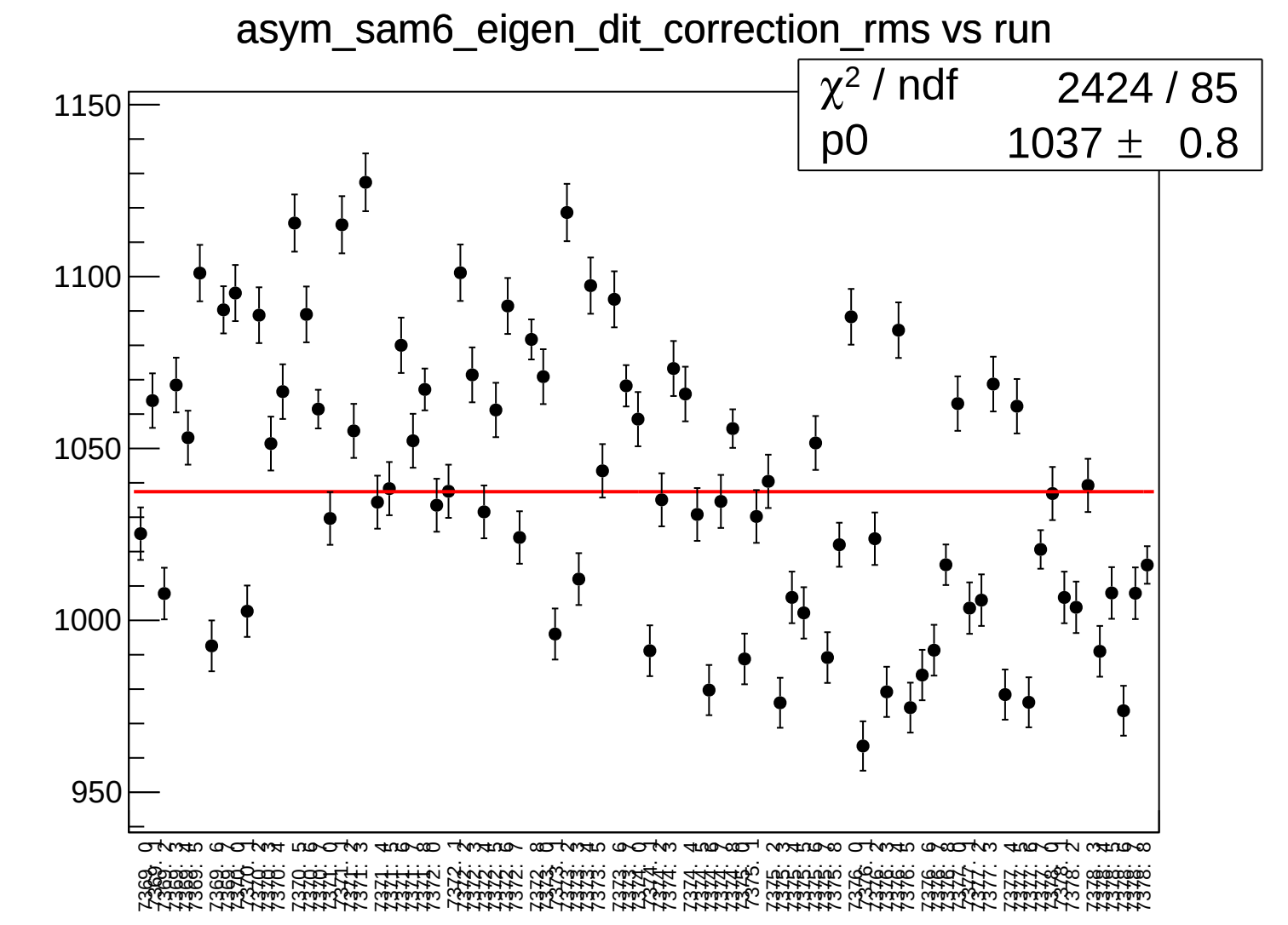

eigen_dit_asym_sam6_mean vs run
χ² / ndf 105 / 85
p0 502.4 ± 216
pull
Entries 86
Mean −106.9
Std Dev 0

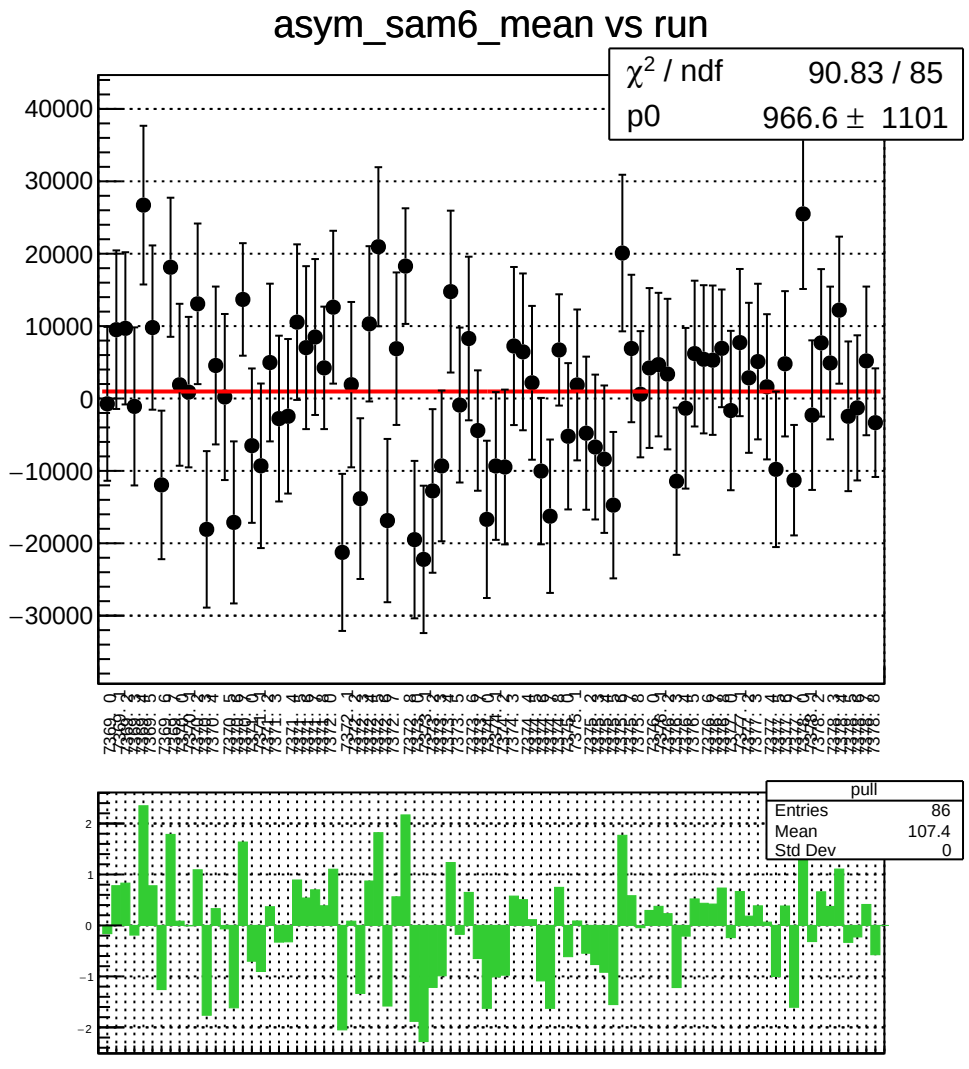

pull1D
Entries 86
Mean −0.01276
Std Dev 1.105

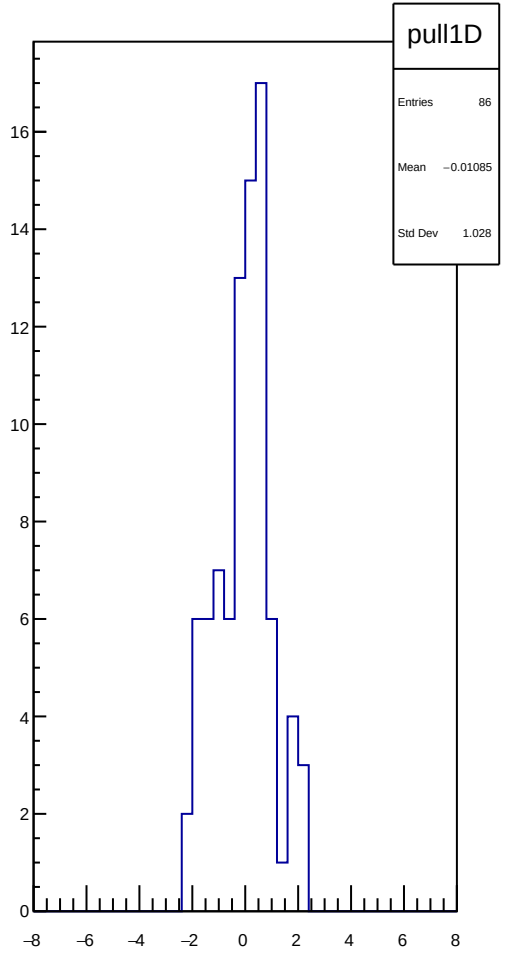

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1547 / 85
p0 198.1 ± 0.1527
215
210
205
200
195
190
185
180

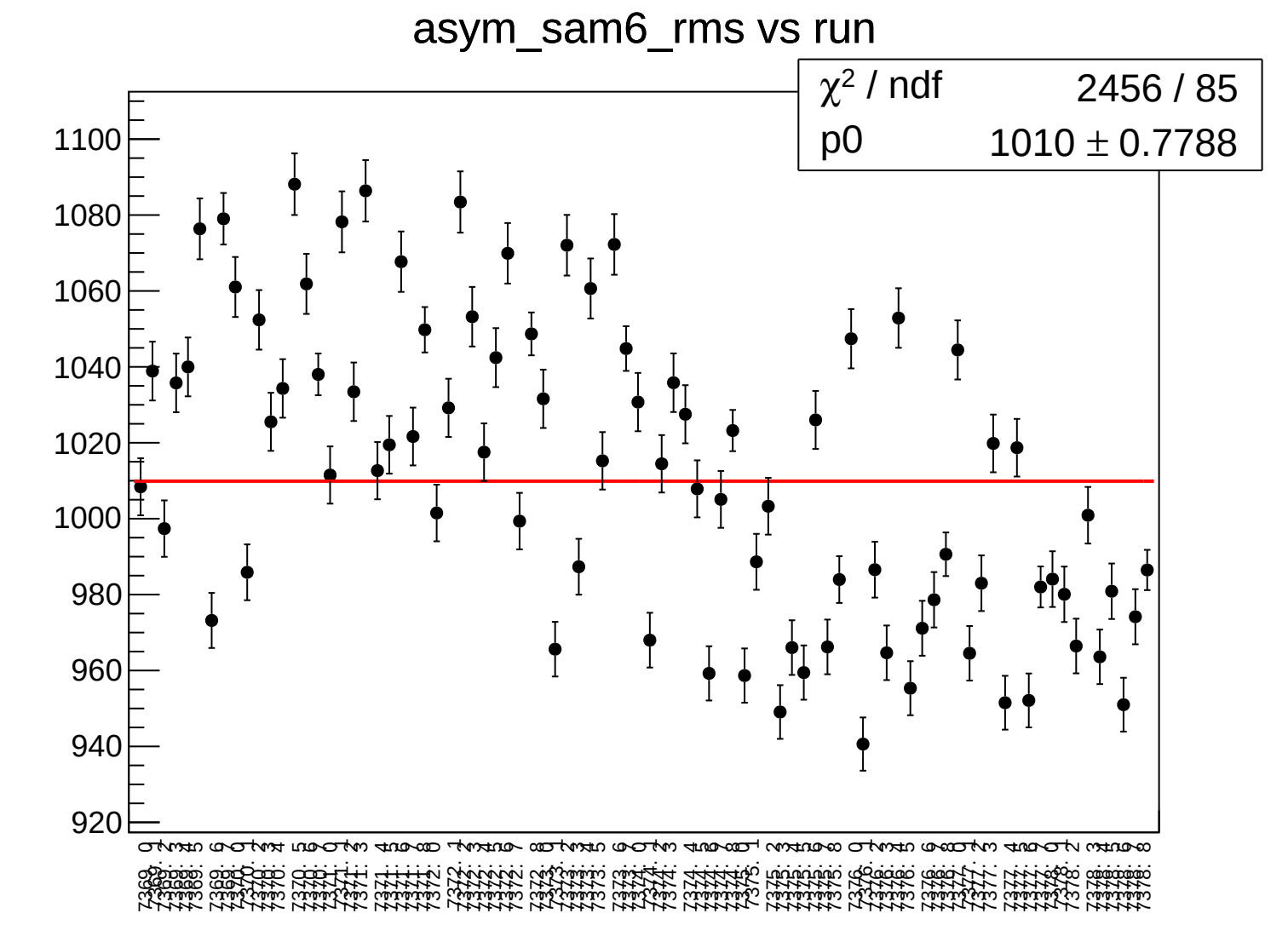

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 90.7 / 85
p0 −489.5 ± 1131
pull
Entries 86
Mean 163.7
Std Dev 0

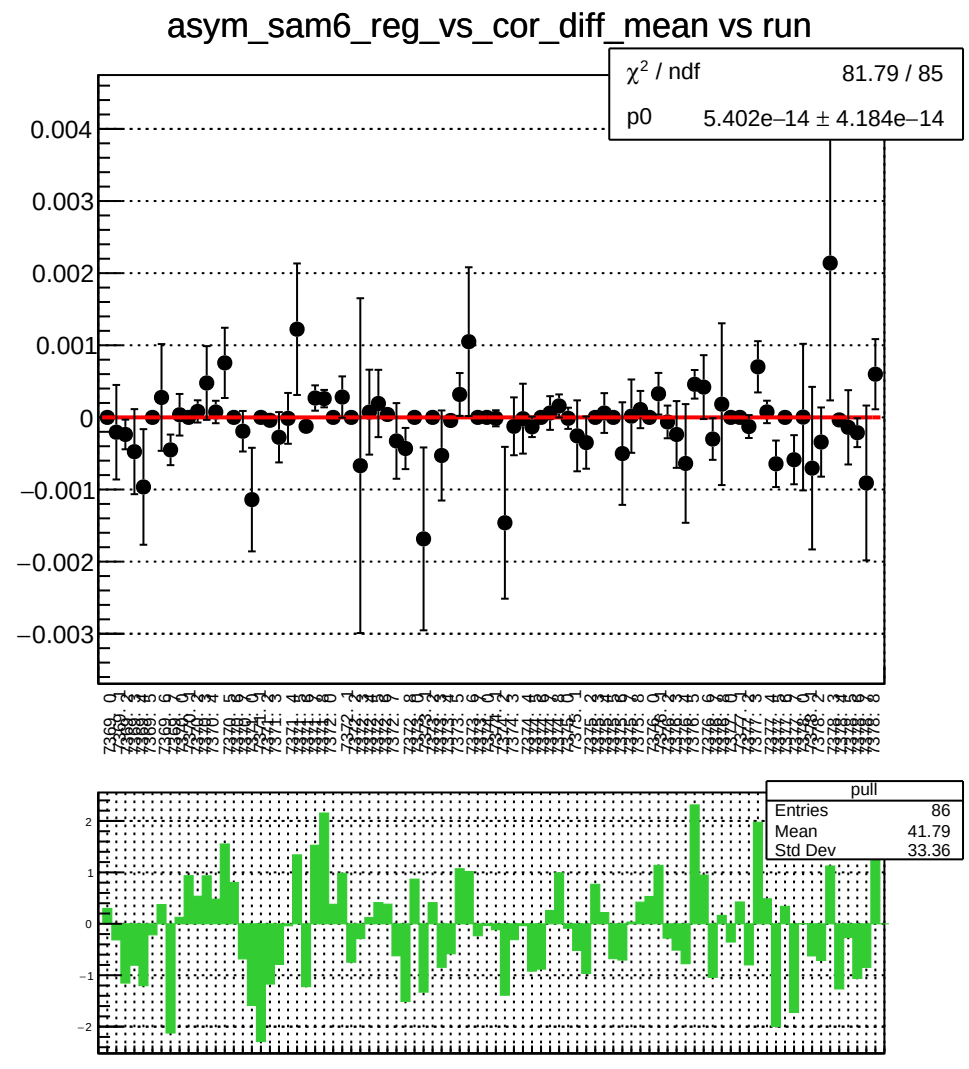

pull1D
Entries 86
Mean 0.009349
Std Dev 1.027

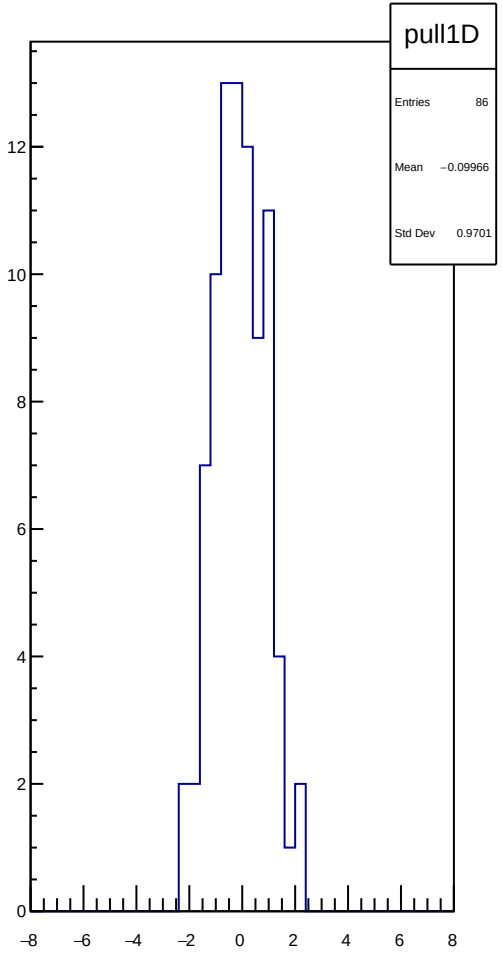

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 2424 / 85
p0 1037 ± 0.8
1150
1100
1050
1000
950

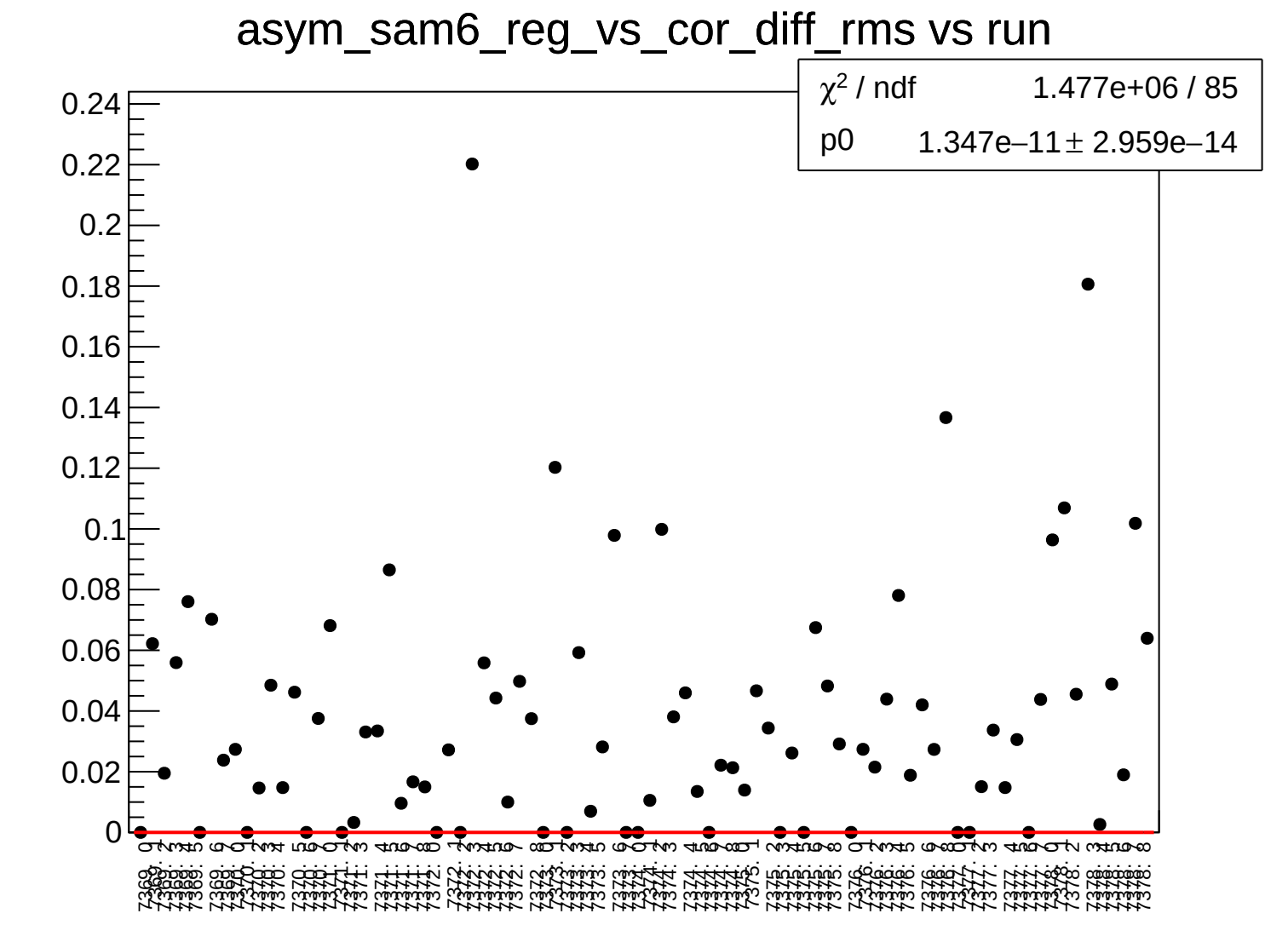

asym_sam6_mean vs run
χ² / ndf 90.83 / 85
p0 966.6 ± 1101
pull
Entries 86
Mean 107.4
Std Dev 0

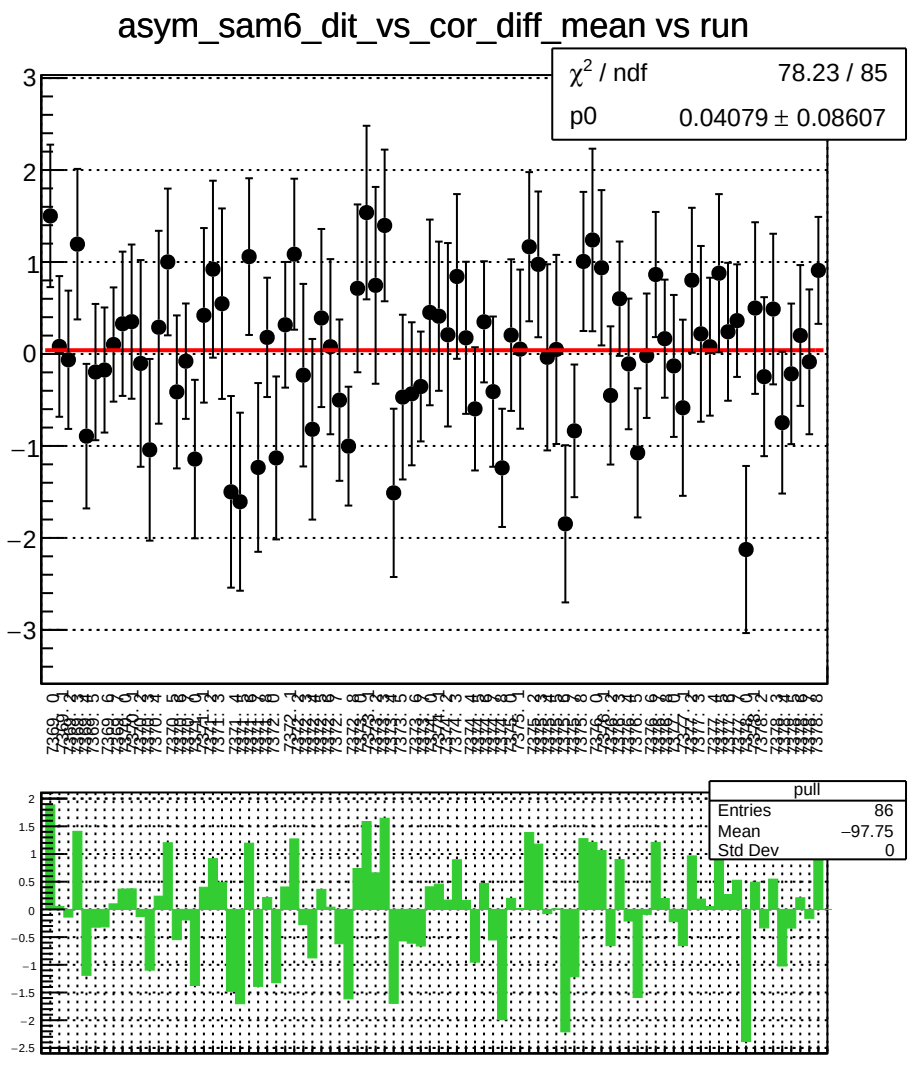

pull1D
Entries 86
Mean −0.01085
Std Dev 1.028

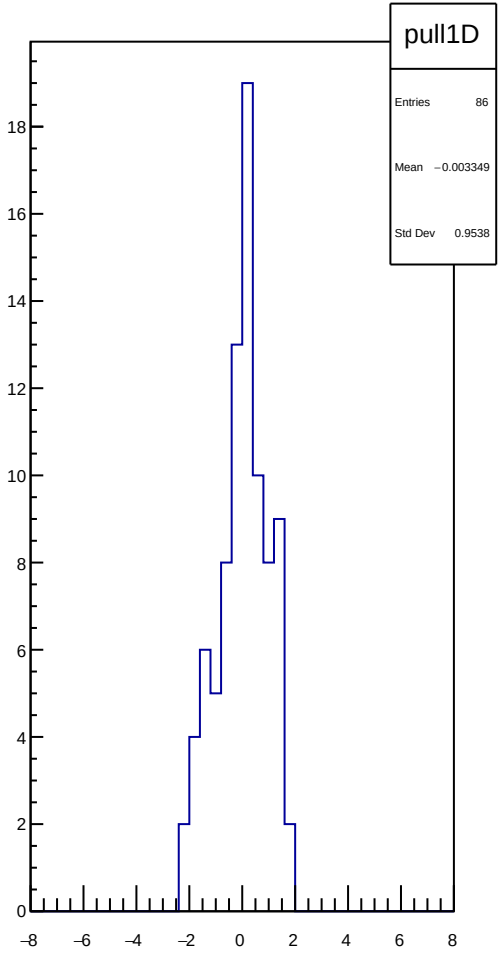

asym_sam6_rms vs run
χ² / ndf 2456 / 85
p0 1010 ± 0.7788
1100
1080
1060
1040
1020
1000
980
960
940
920

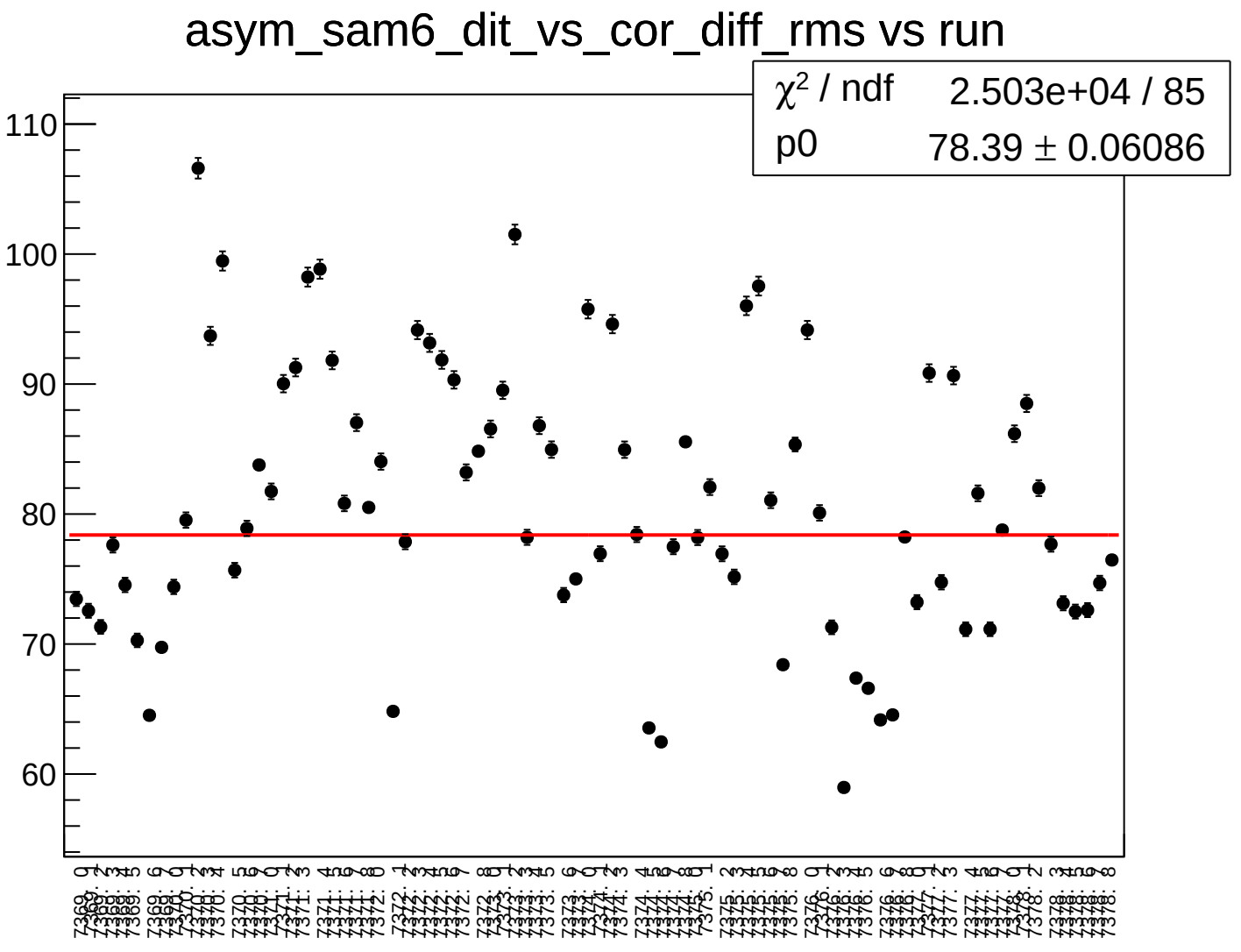

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 81.79 / 85
p0 5.402e−14 ± 4.184e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 86
Mean 41.79
Std Dev 33.36
2
1
0
−1
−2

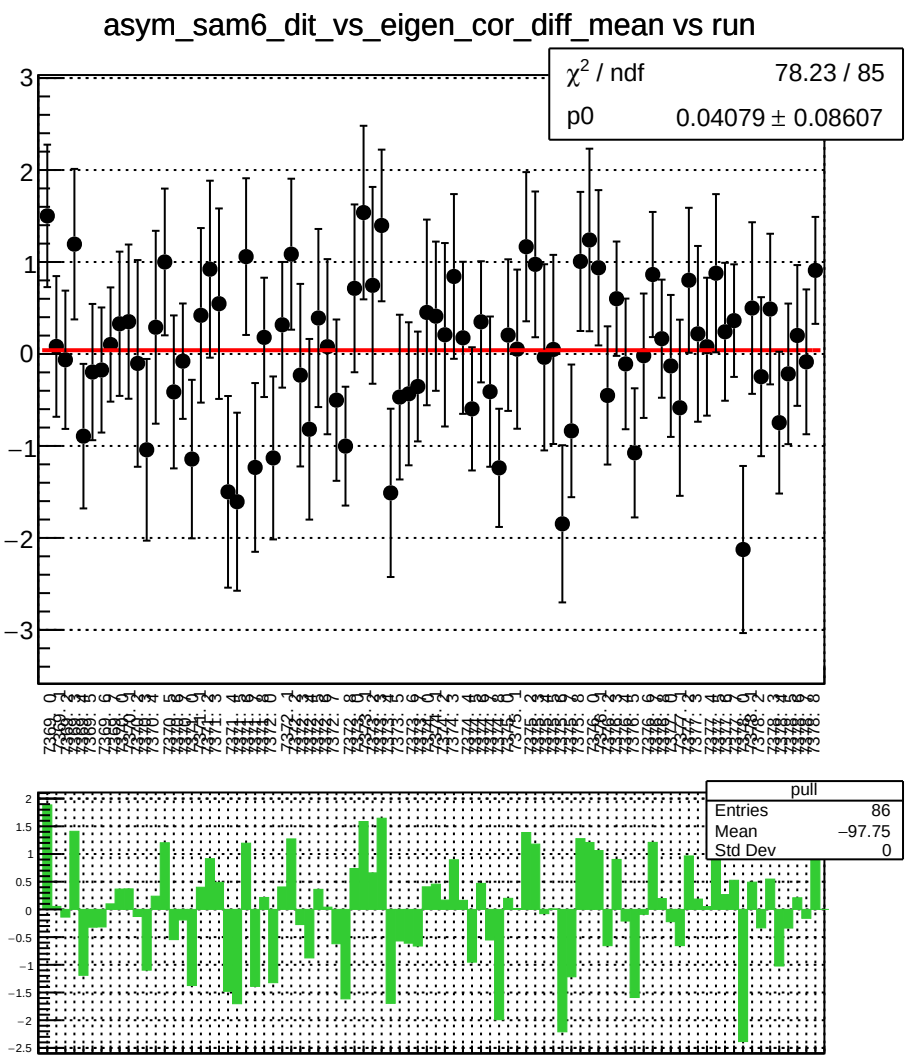

pull1D
Entries 86
Mean −0.09966
Std Dev 0.9701
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

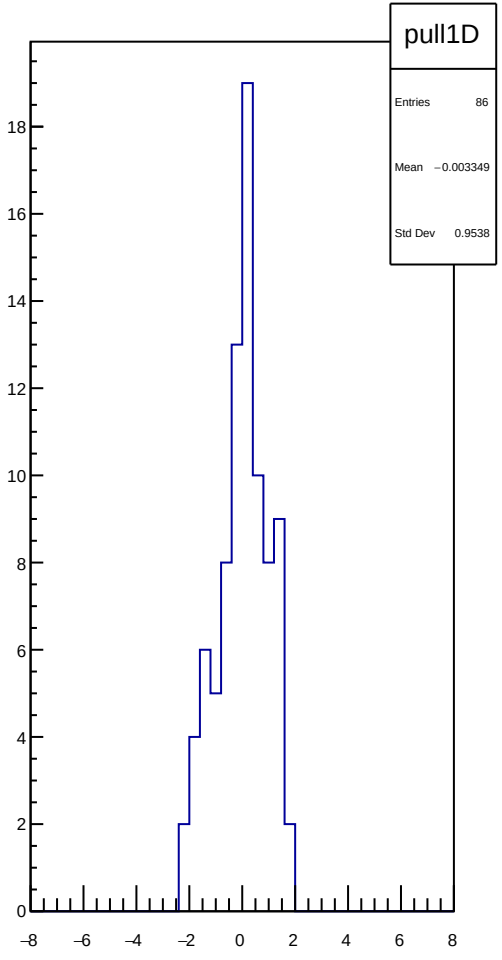

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.477e+06 / 85
p0 1.347e−11 ± 2.959e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

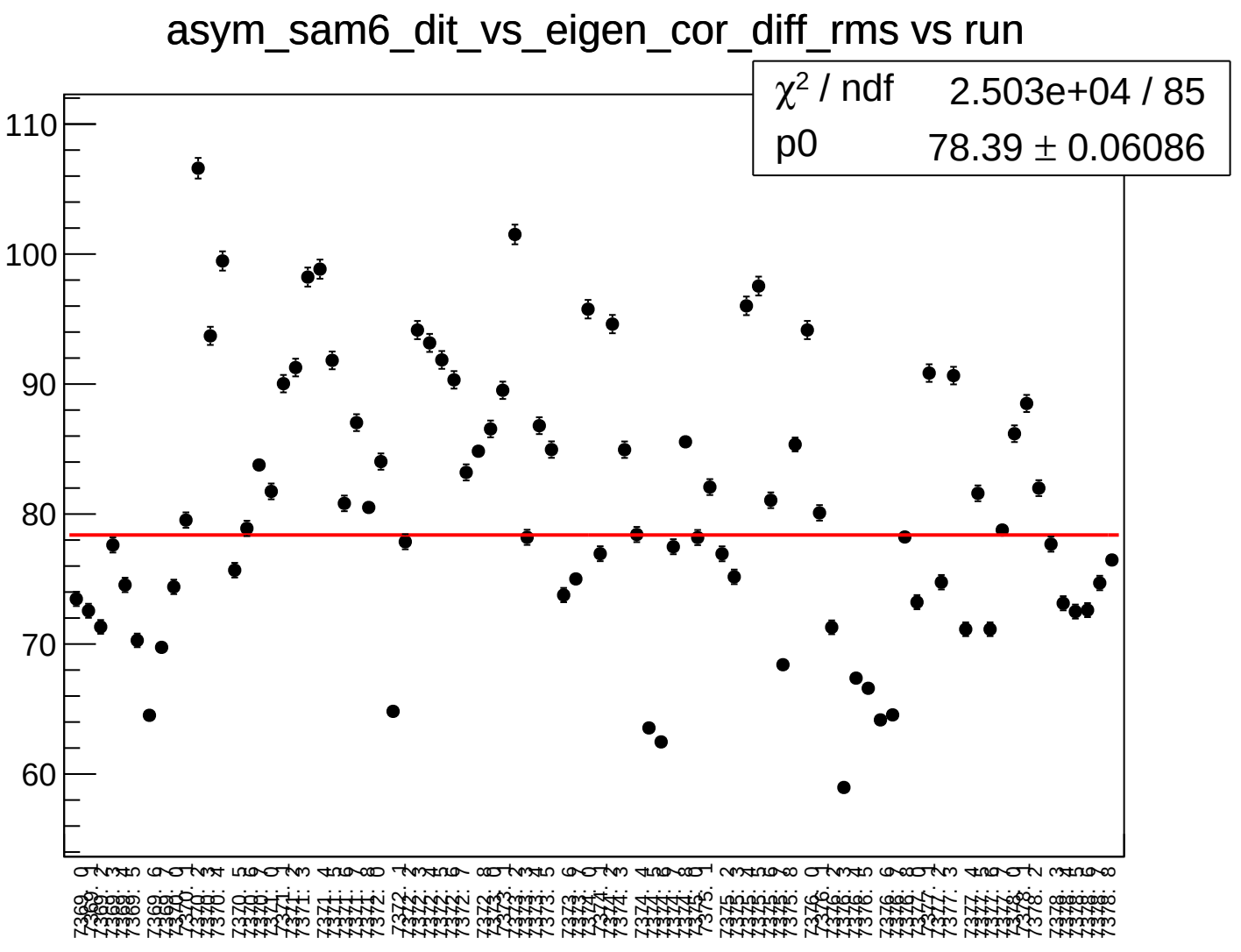

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 78.23 / 85
p0 0.04079 ± 0.08607
pull
Entries 86
Mean −97.75
Std Dev 0

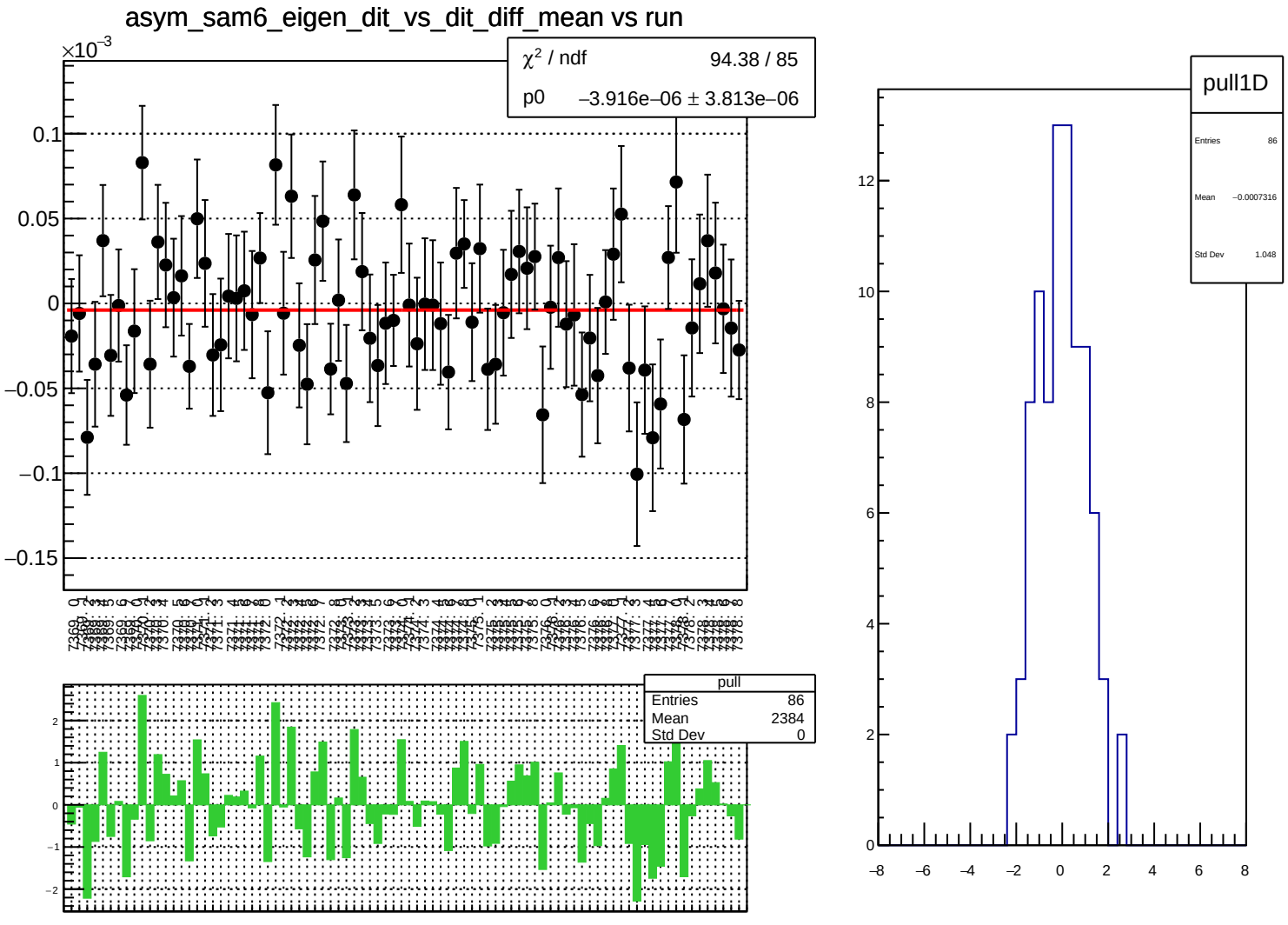

pull1D
Entries 86
Mean −0.003349
Std Dev 0.9538

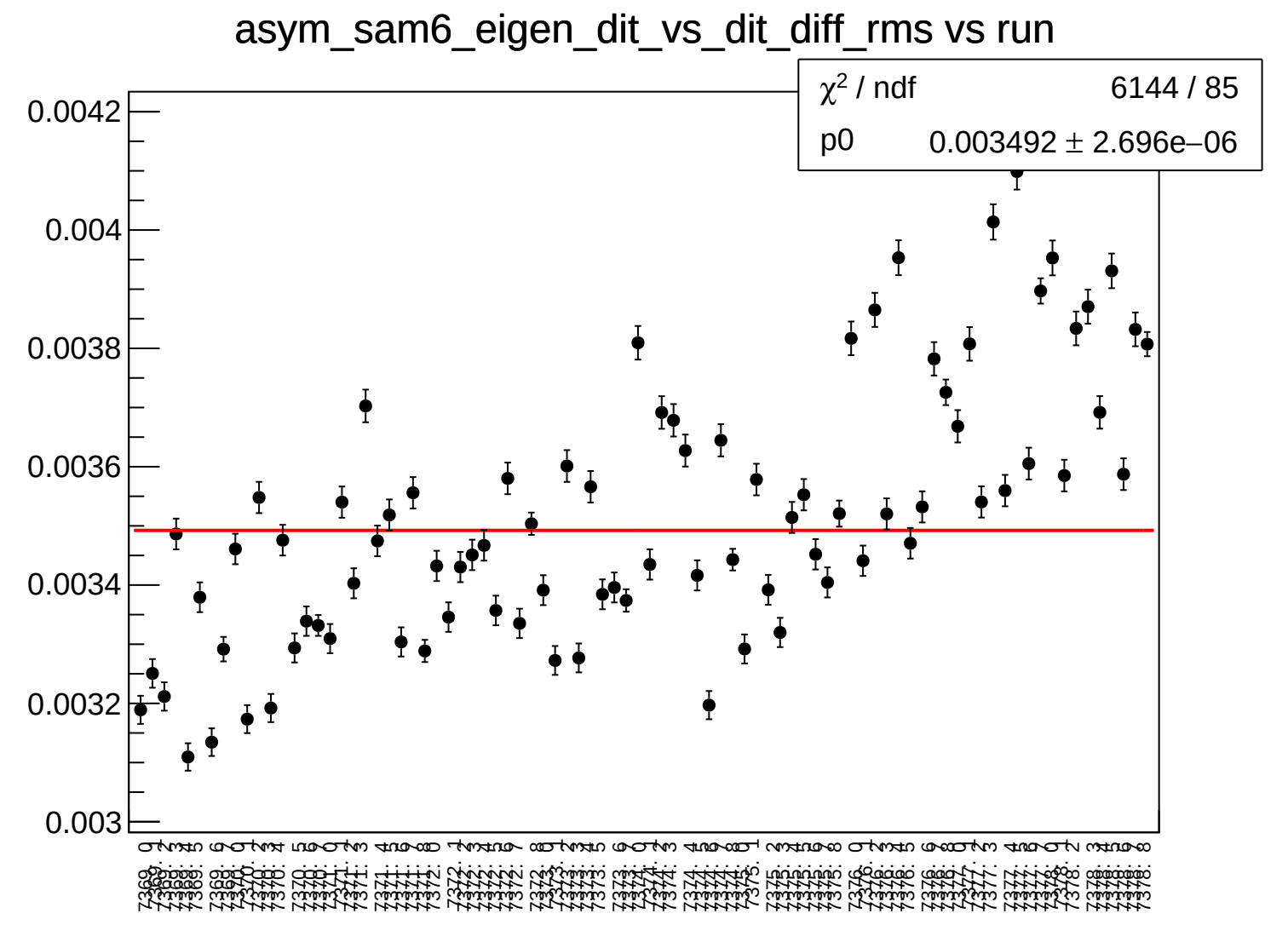

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 2.503e+04 / 85
p0 78.39 ± 0.06086
110
100
90
80
70
60

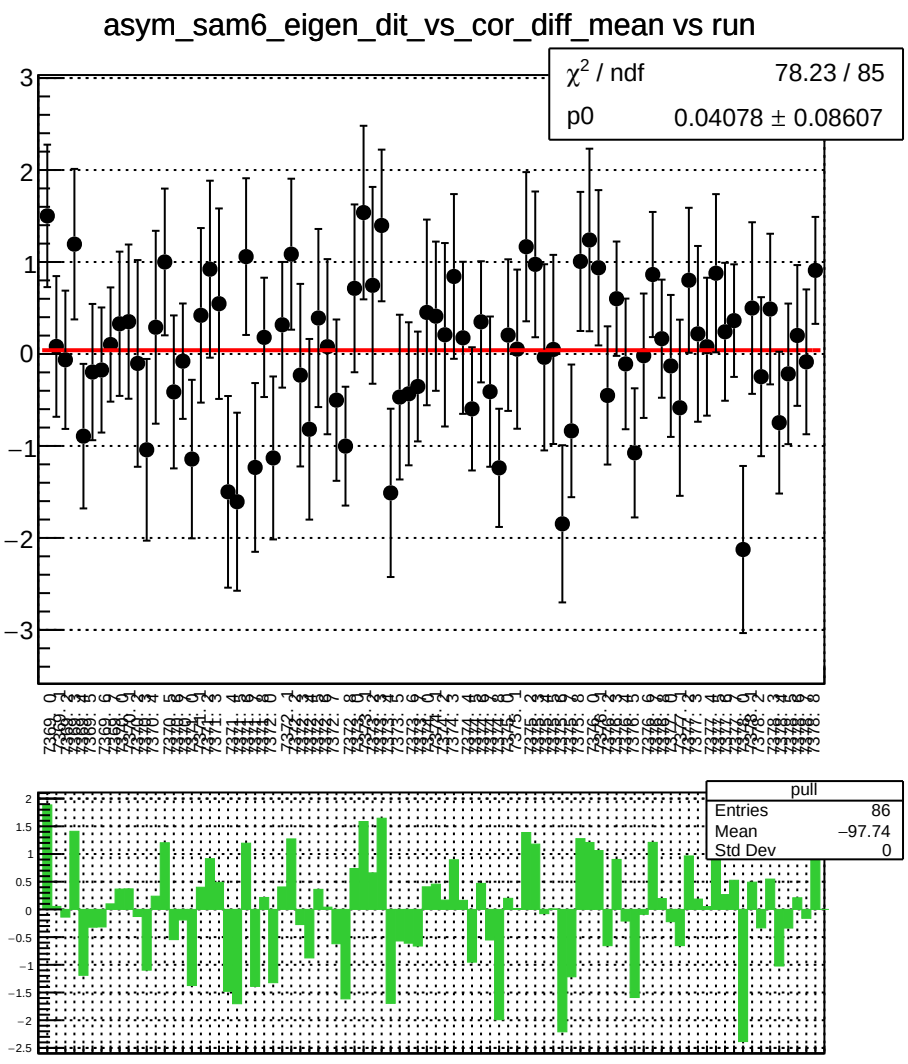

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.23 / 85
p0 0.04079 ± 0.08607
pull
Entries 86
Mean −97.75
Std Dev 0

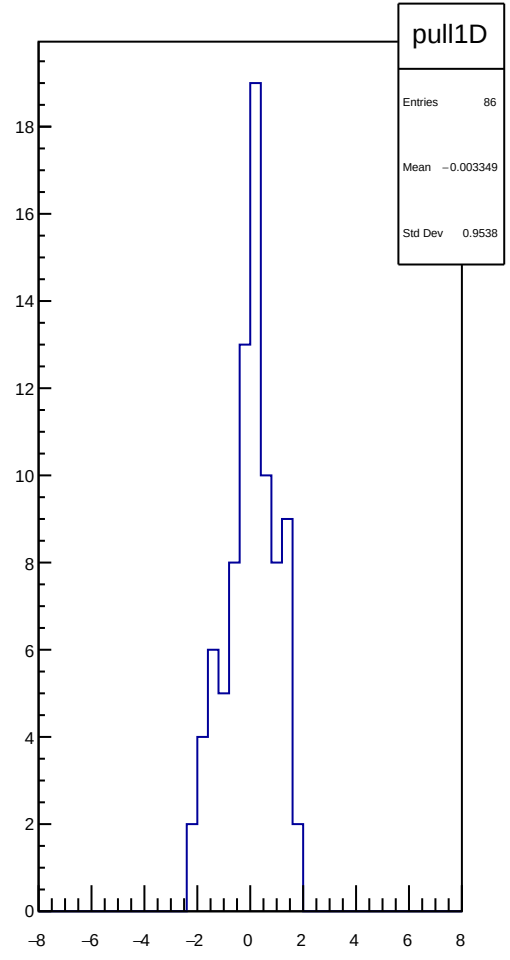

pull1D
Entries 86
Mean −0.003349
Std Dev 0.9538

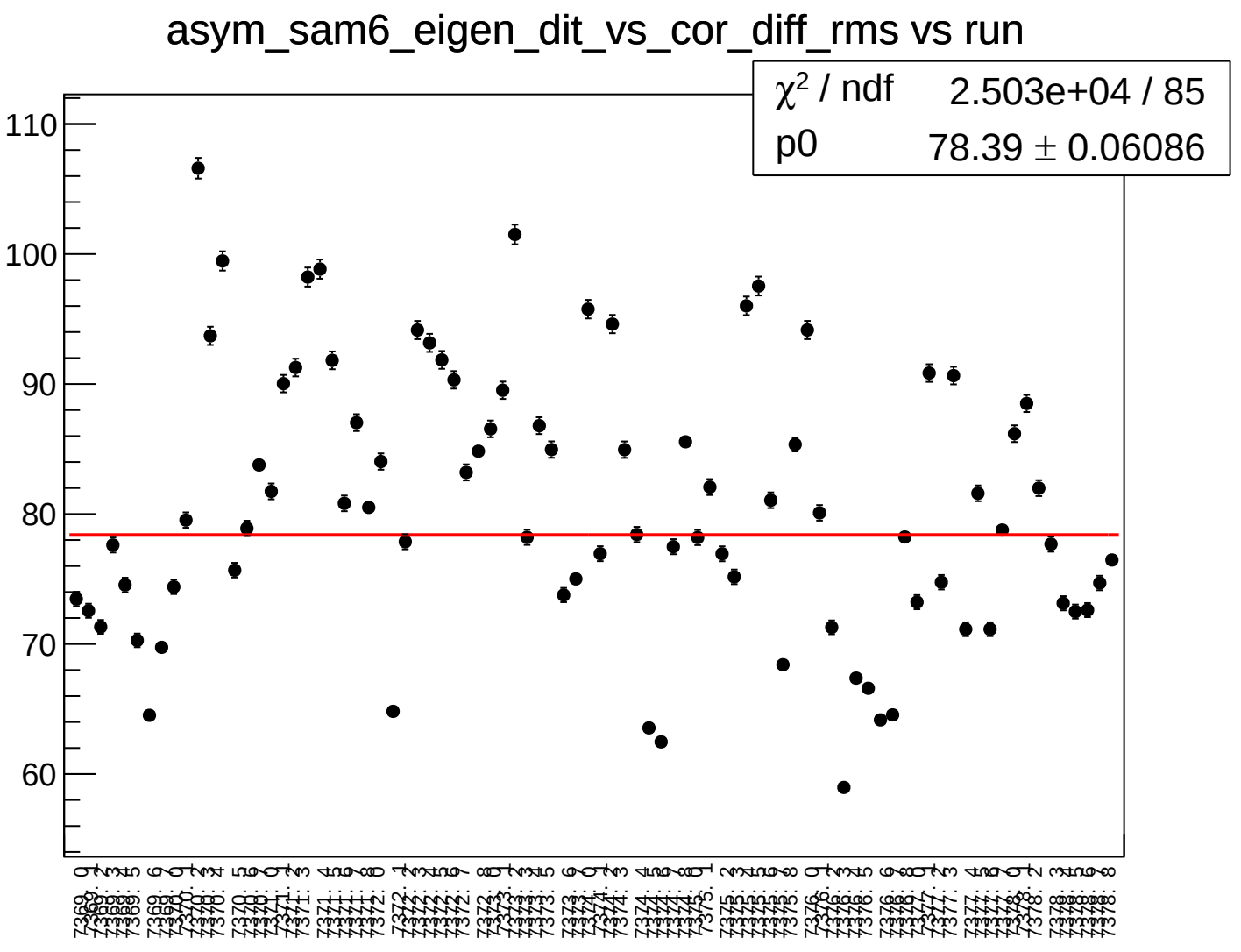

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.503e+04 / 85
p0 78.39 ± 0.06086
110
100
90
80
70
60

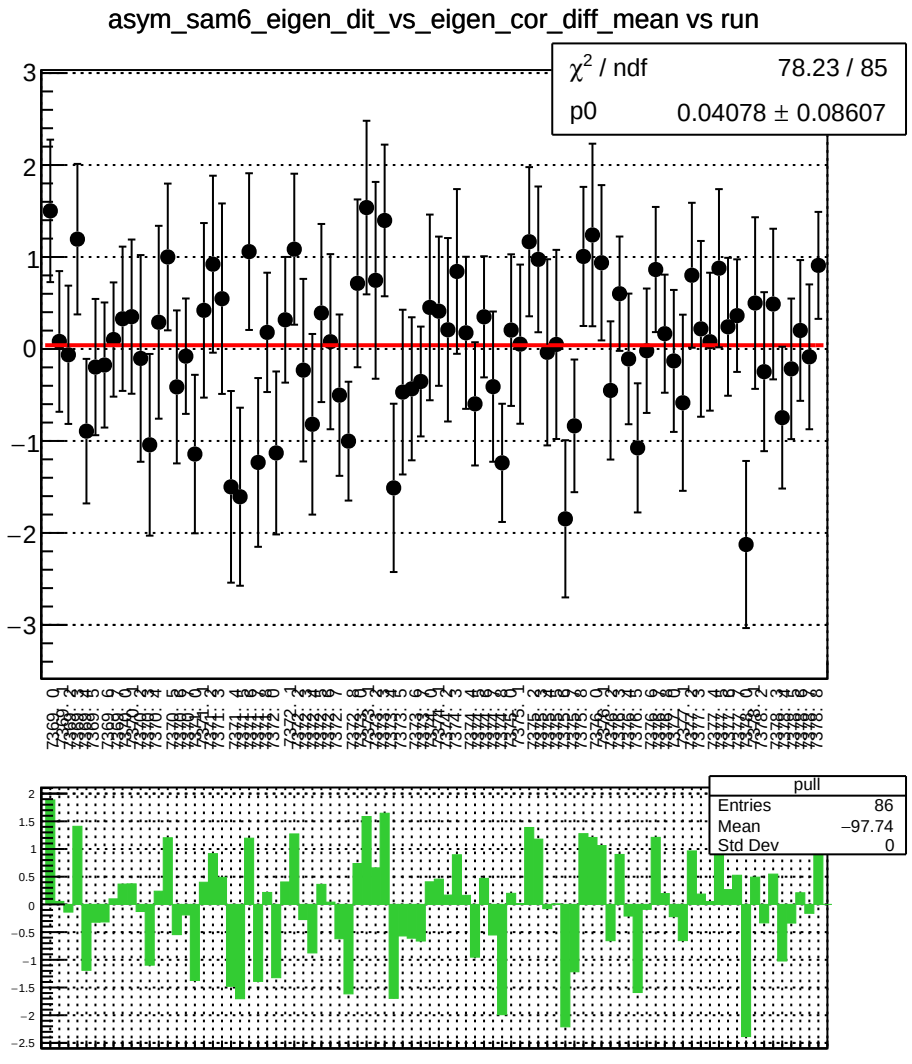

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.38 / 85
p0 −3.916e−06 ± 3.813e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 2384
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.0007316
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

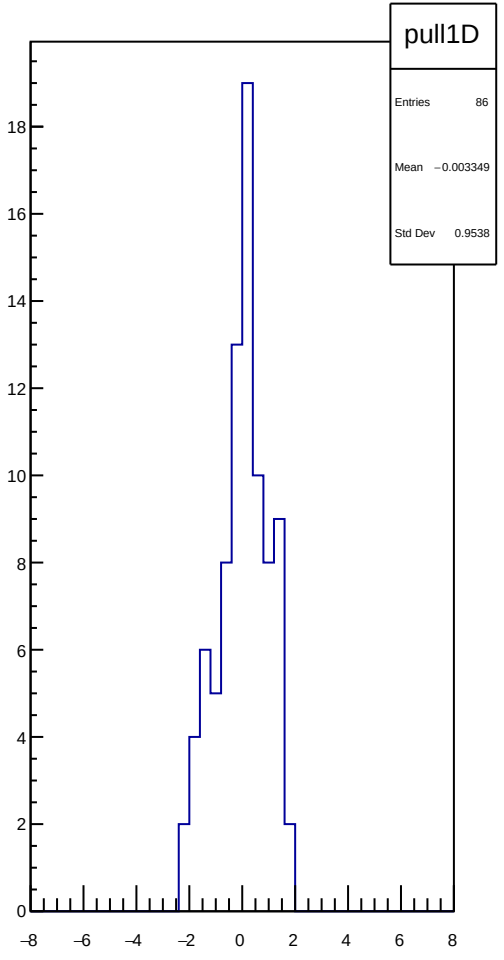

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6144 / 85
p0 0.003492 ± 2.696e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

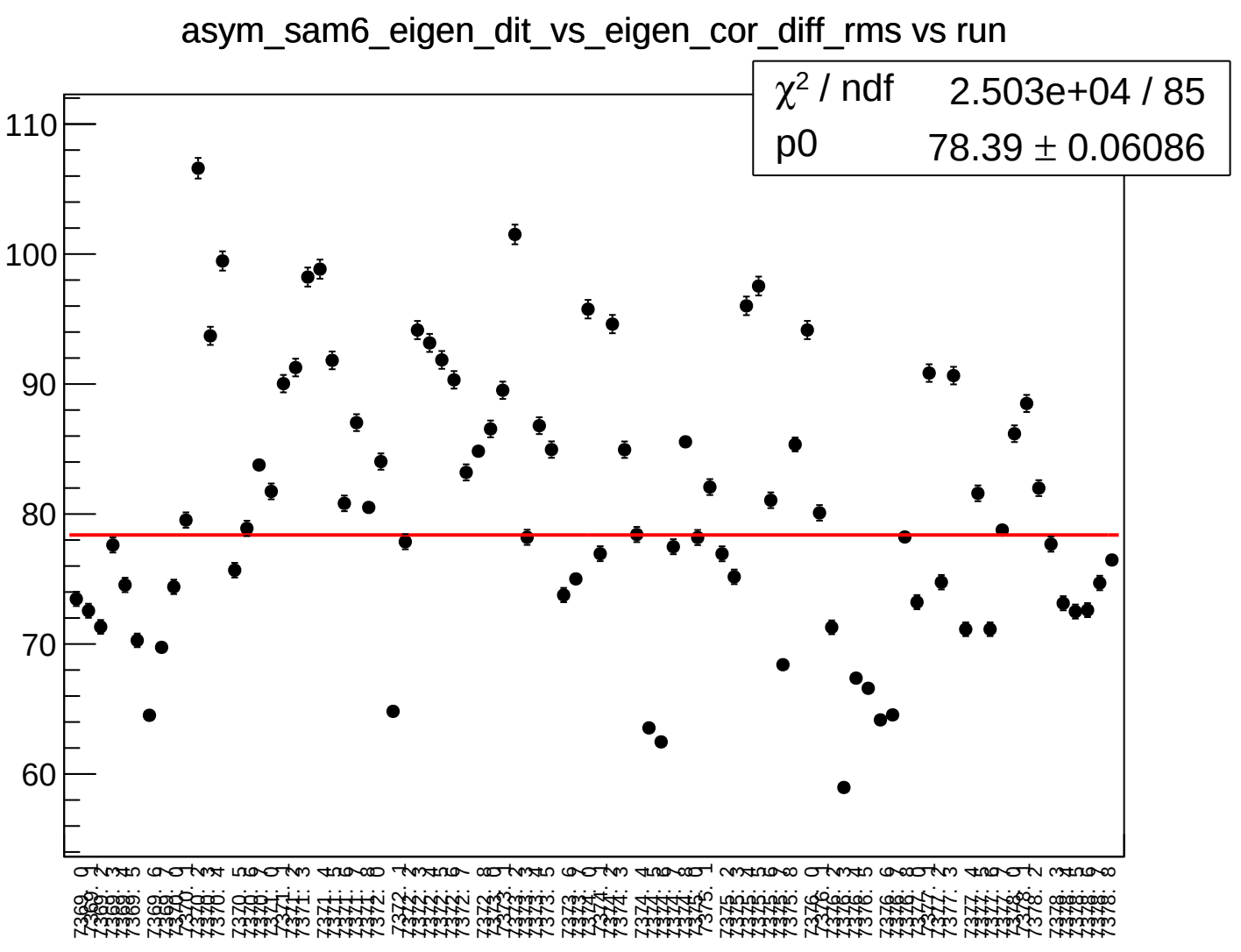

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.23 / 85
p0 0.04078 ± 0.08607
pull
Entries 86
Mean −97.74
Std Dev 0

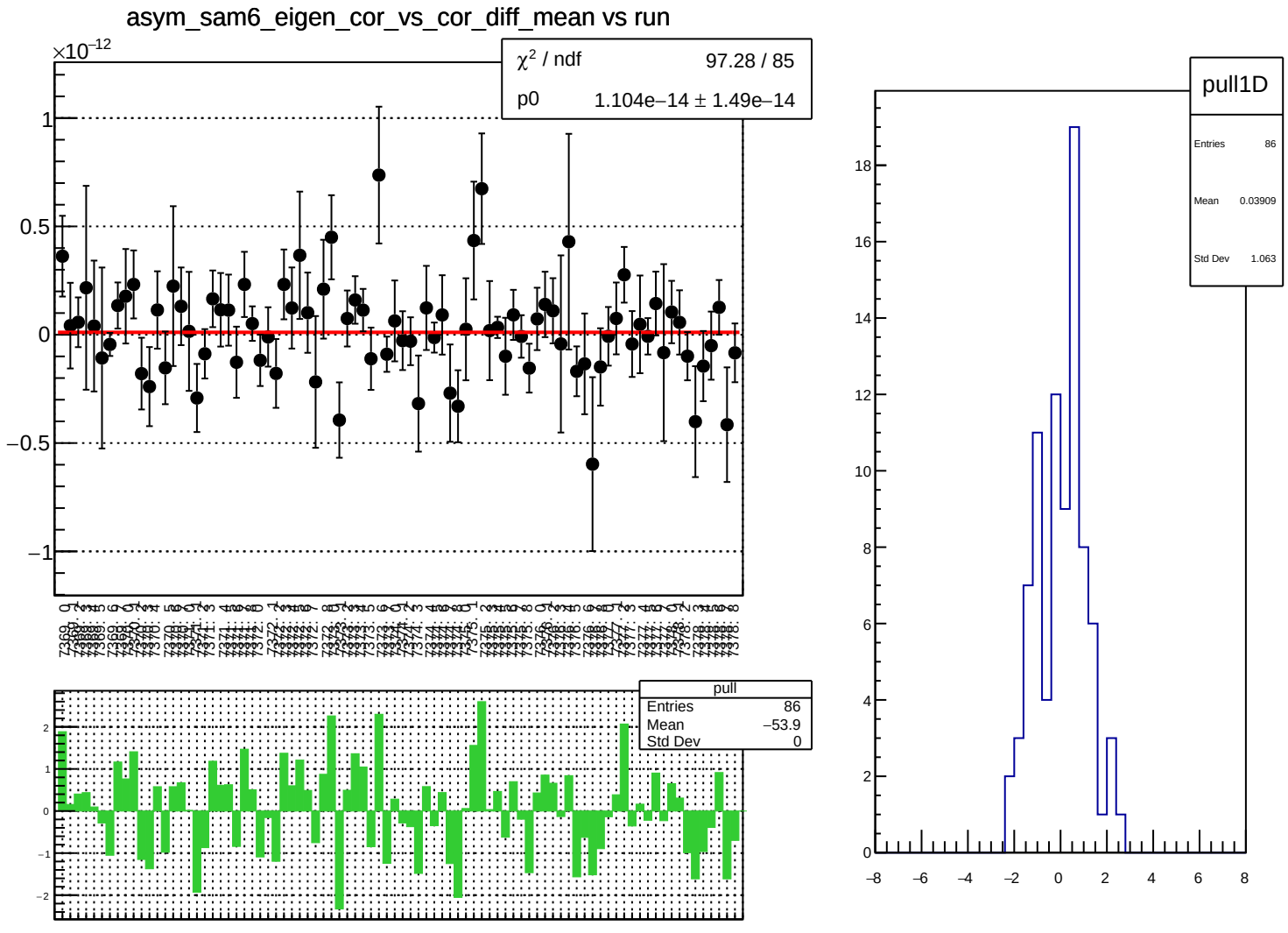

pull1D
Entries 86
Mean −0.003349
Std Dev 0.9538

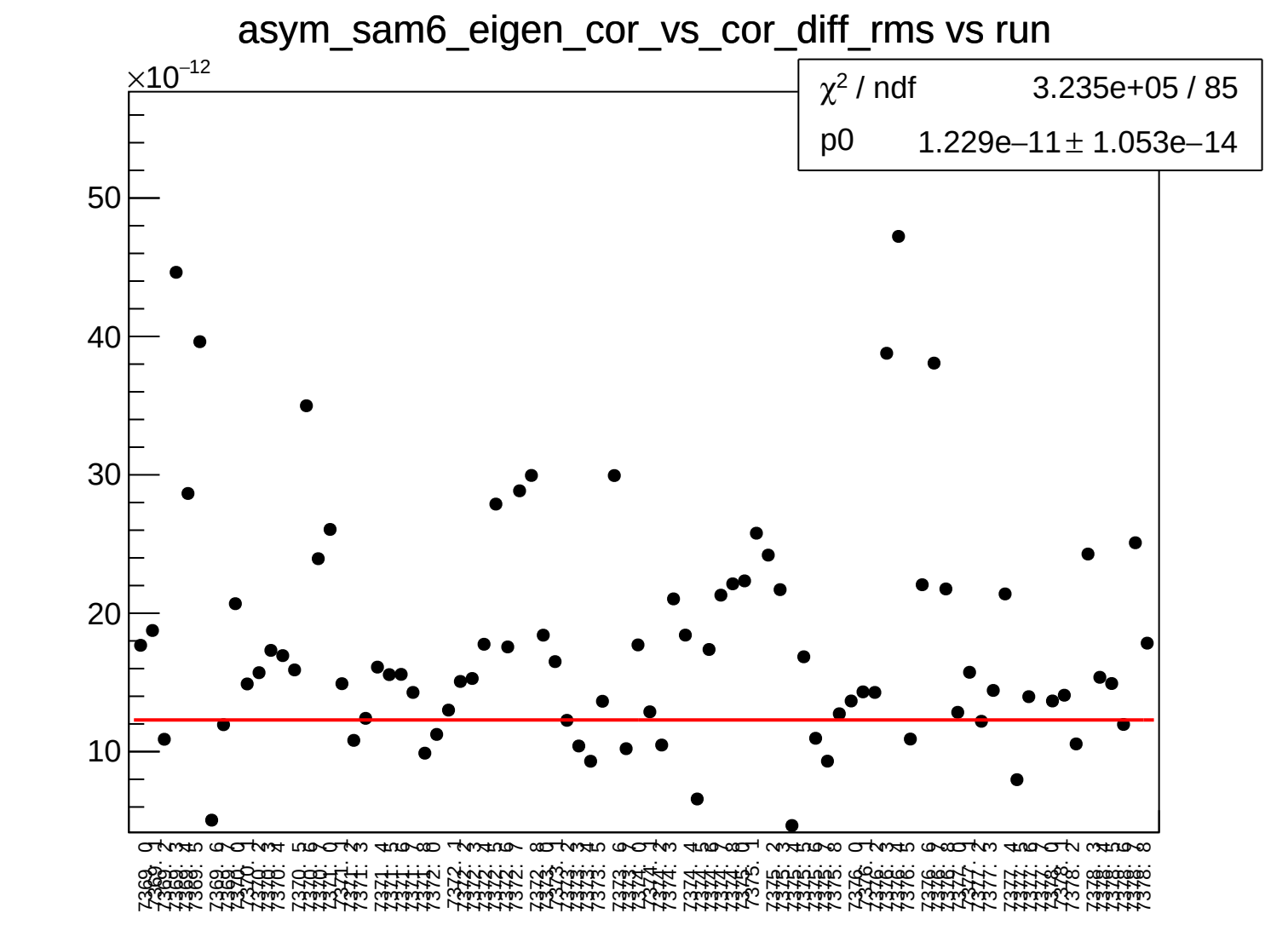

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.503e+04 / 85
p0 78.39 ± 0.06086
110
100
90
80
70
60

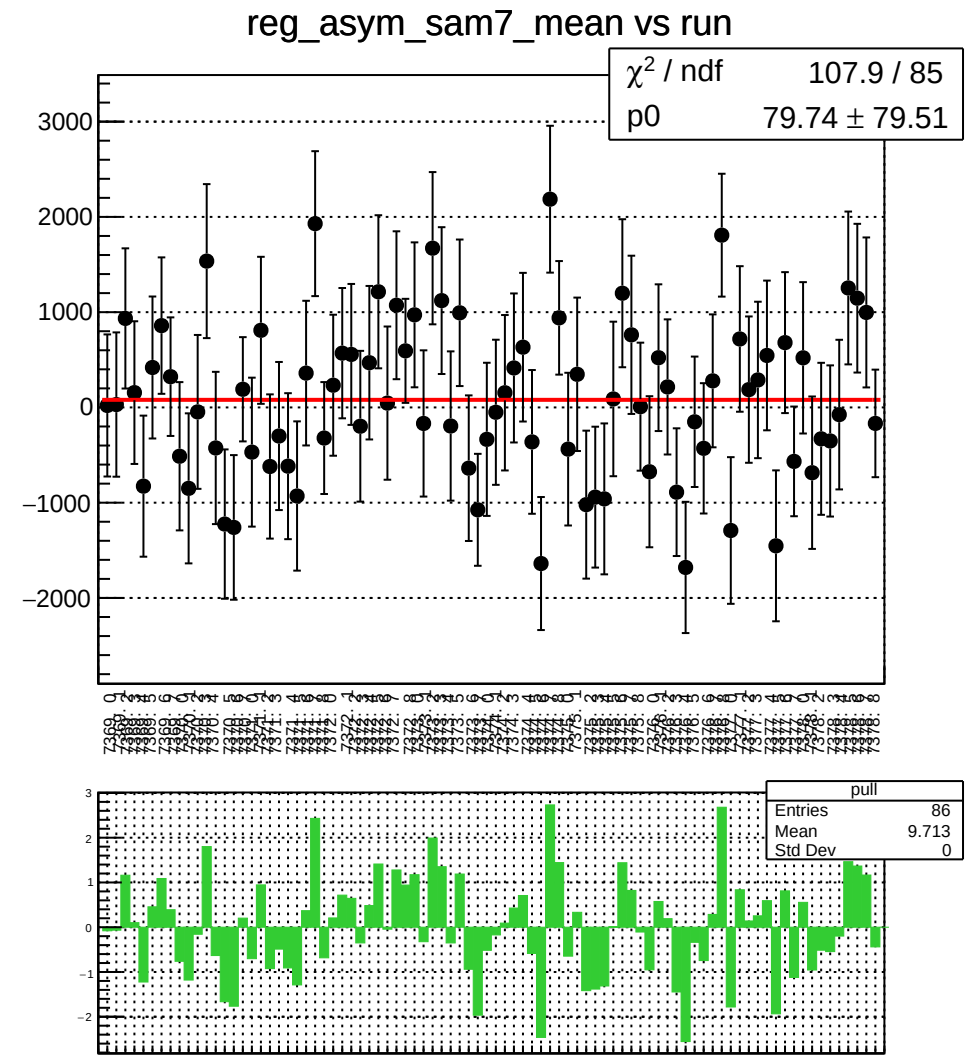

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.23 / 85
p0 0.04078 ± 0.08607
pull
Entries 86
Mean −97.74
Std Dev 0

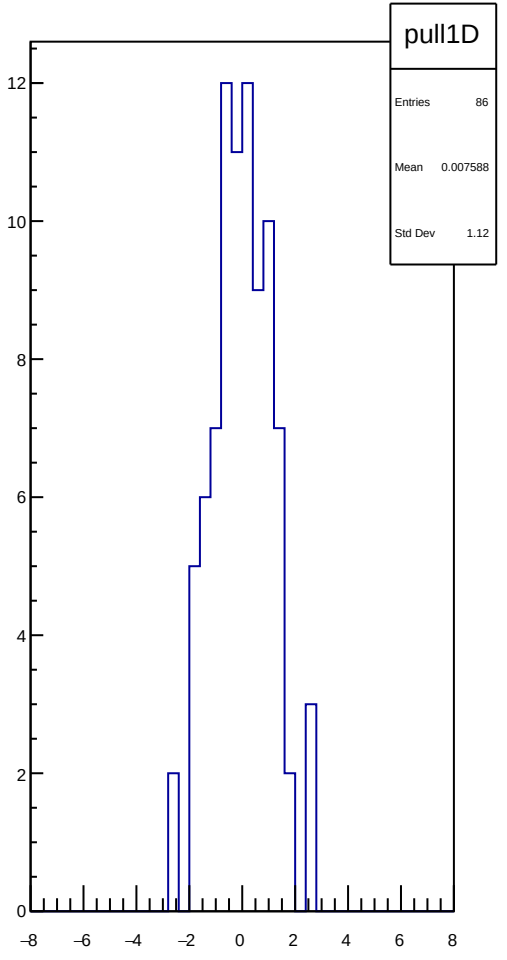

pull1D
Entries 86
Mean −0.003349
Std Dev 0.9538

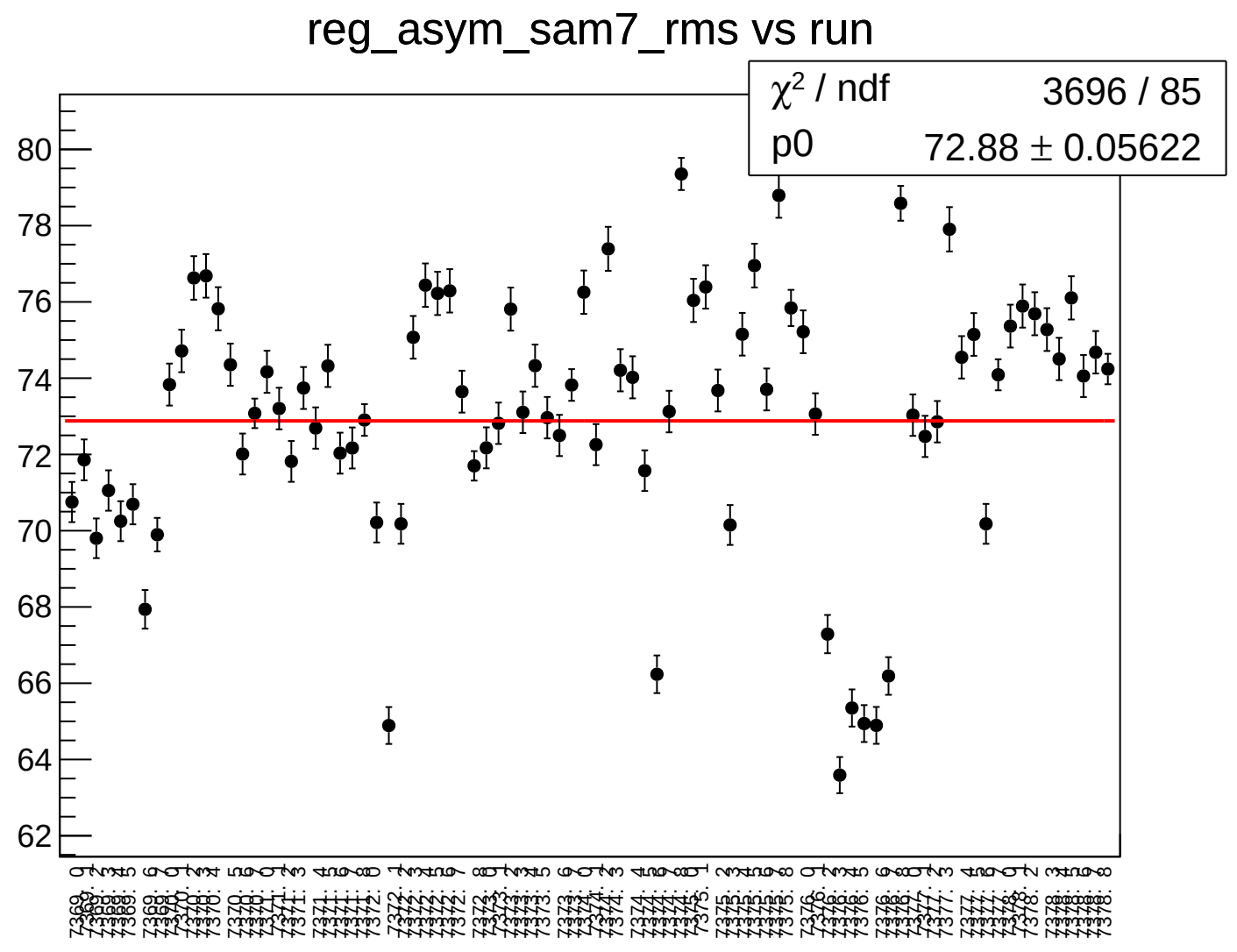

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.503e+04 / 85
p0 78.39 ± 0.06086
110
100
90
80
70
60

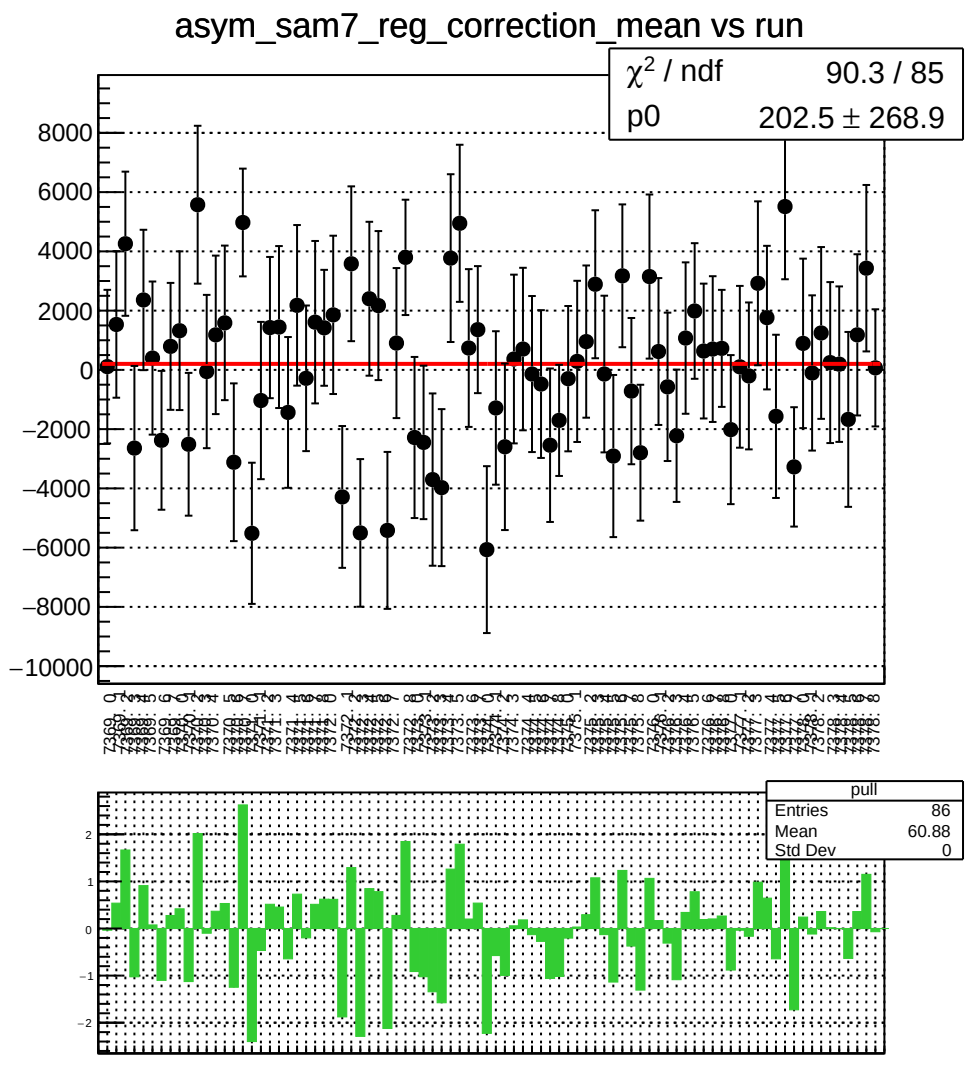

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.28 / 85
p0 1.104e−14 ± 1.49e−14
pull
Entries 86
Mean −53.9
Std Dev 0
pull1D
Entries 86
Mean 0.03909
Std Dev 1.063

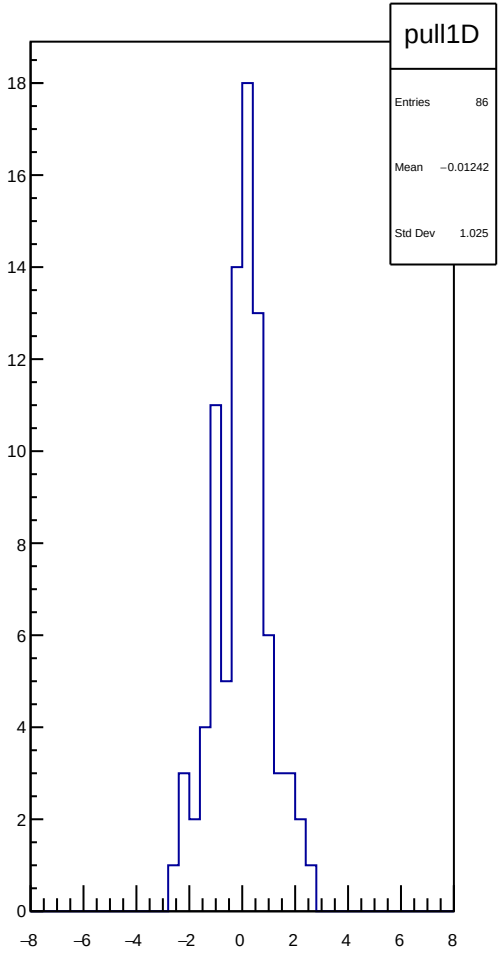

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.235e+05 / 85
p0 1.229e−11 ± 1.053e−14
50
40
30
20
10

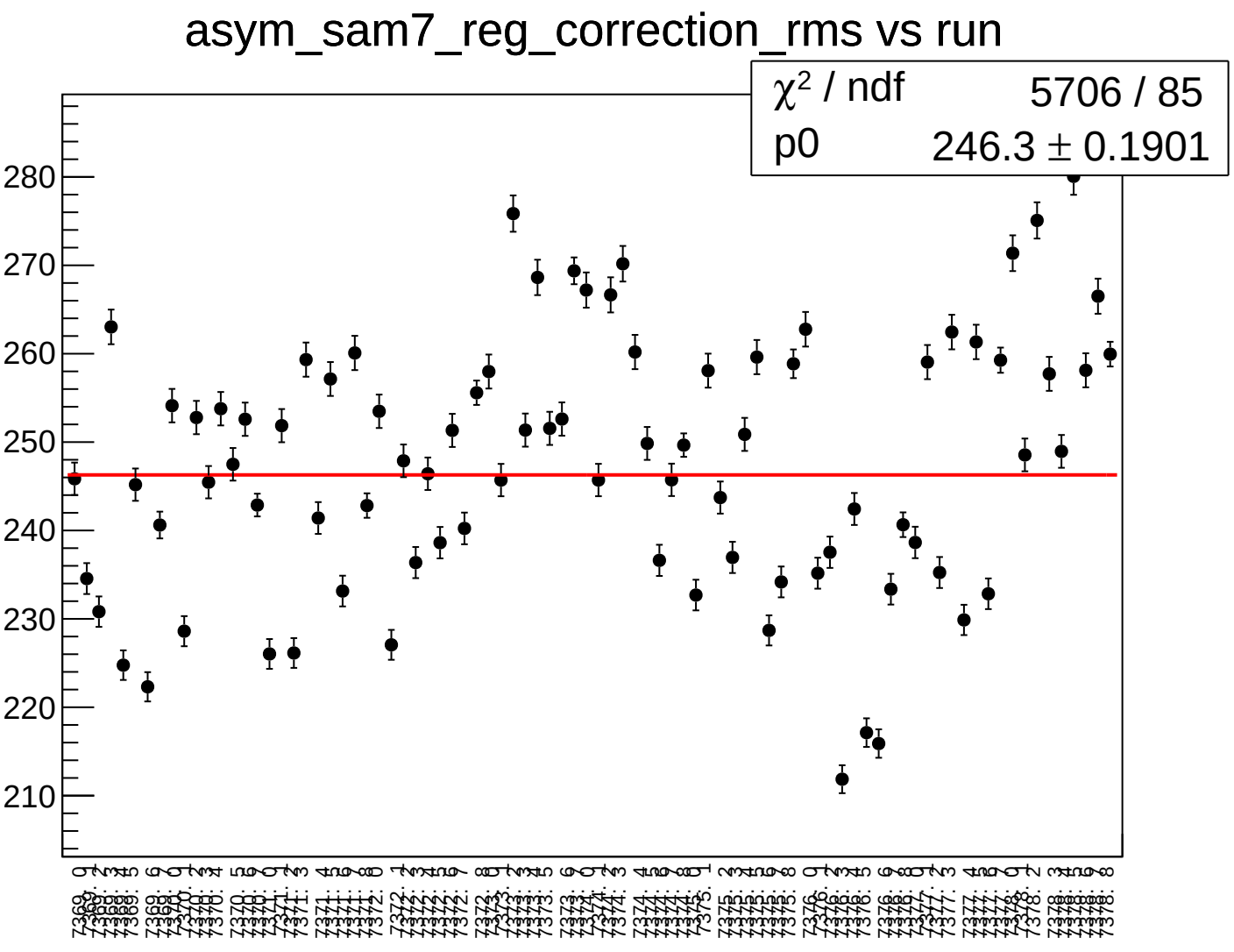

reg_asym_sam7_mean vs run
χ^2 / ndf 107.9 / 85
p0 79.74 ± 79.51
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 9.713
Std Dev 0
3
2
1
0
−1
−2

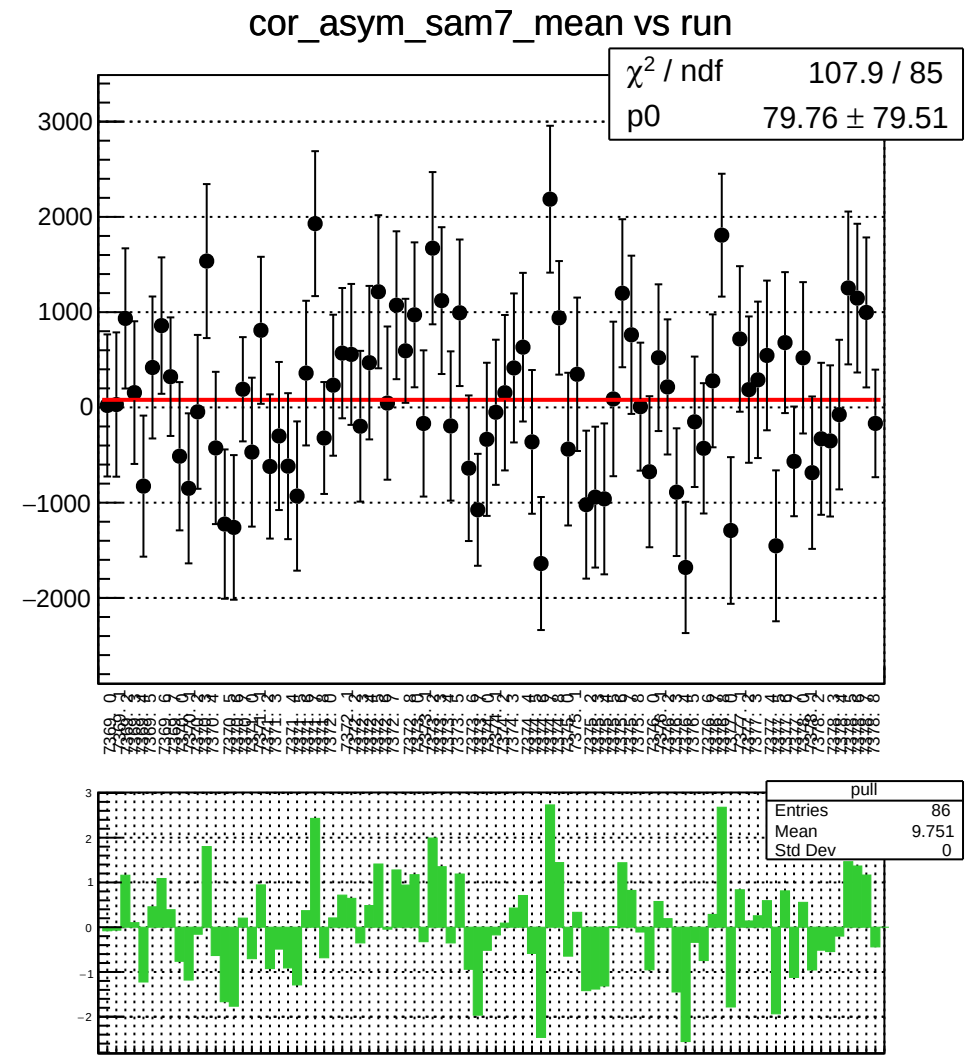

pull1D
Entries 86
Mean 0.007588
Std Dev 1.12
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

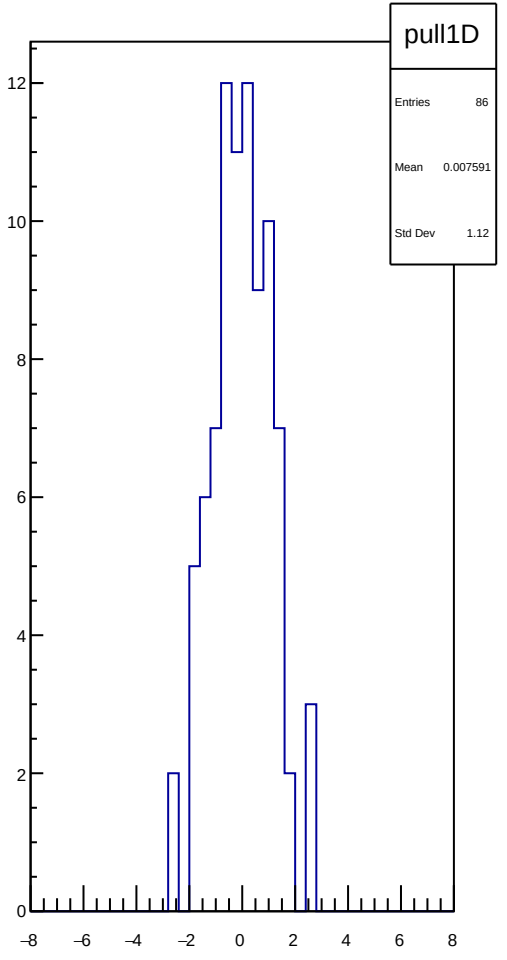

reg_asym_sam7_rms vs run
χ² / ndf 3696 / 85
p0 72.88 ± 0.05622
80
78
76
74
72
70
68
66
64
62

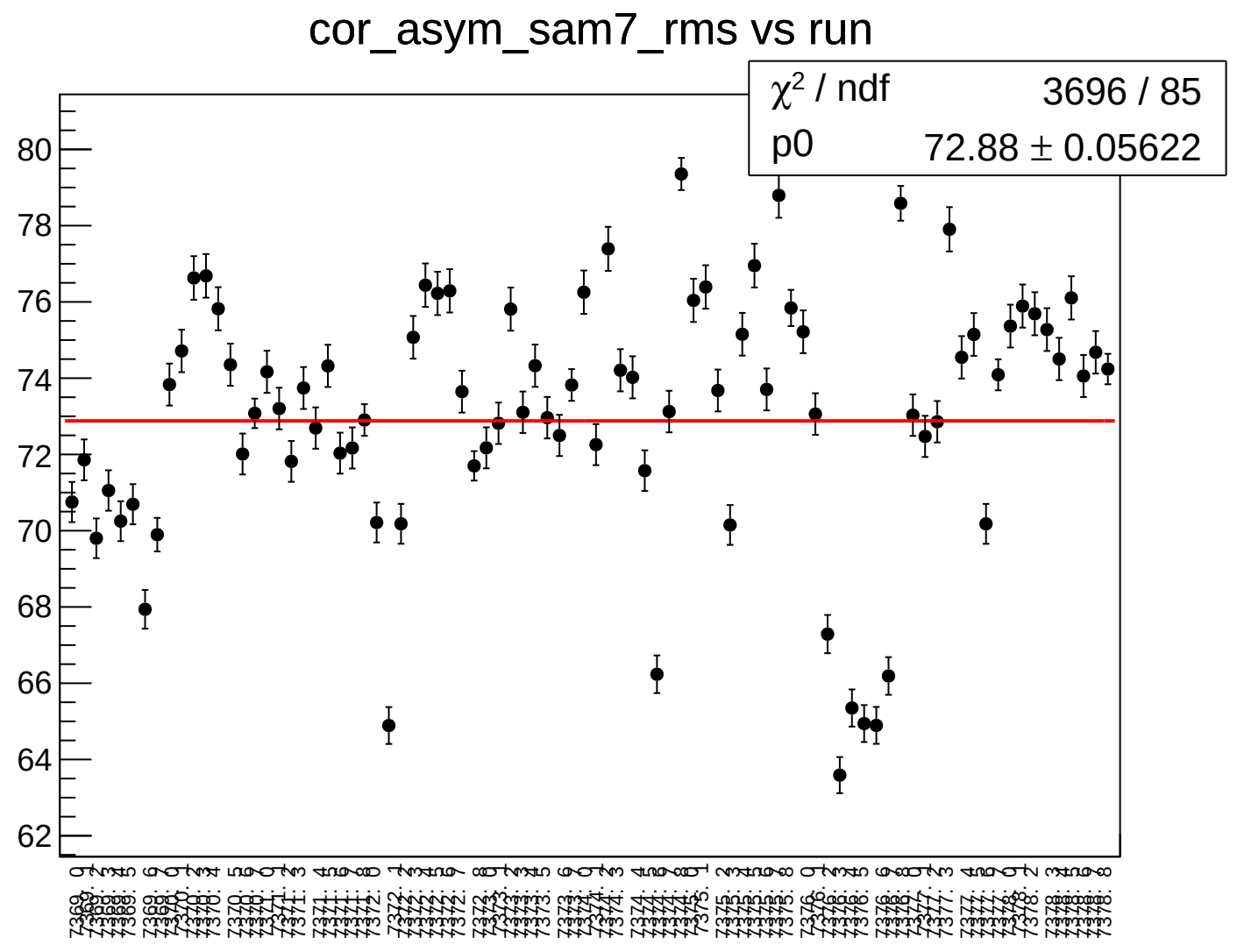

asym_sam7_reg_correction_mean vs run
χ² / ndf 90.3 / 85
p0 202.5 ± 268.9
pull
Entries 86
Mean 60.88
Std Dev 0

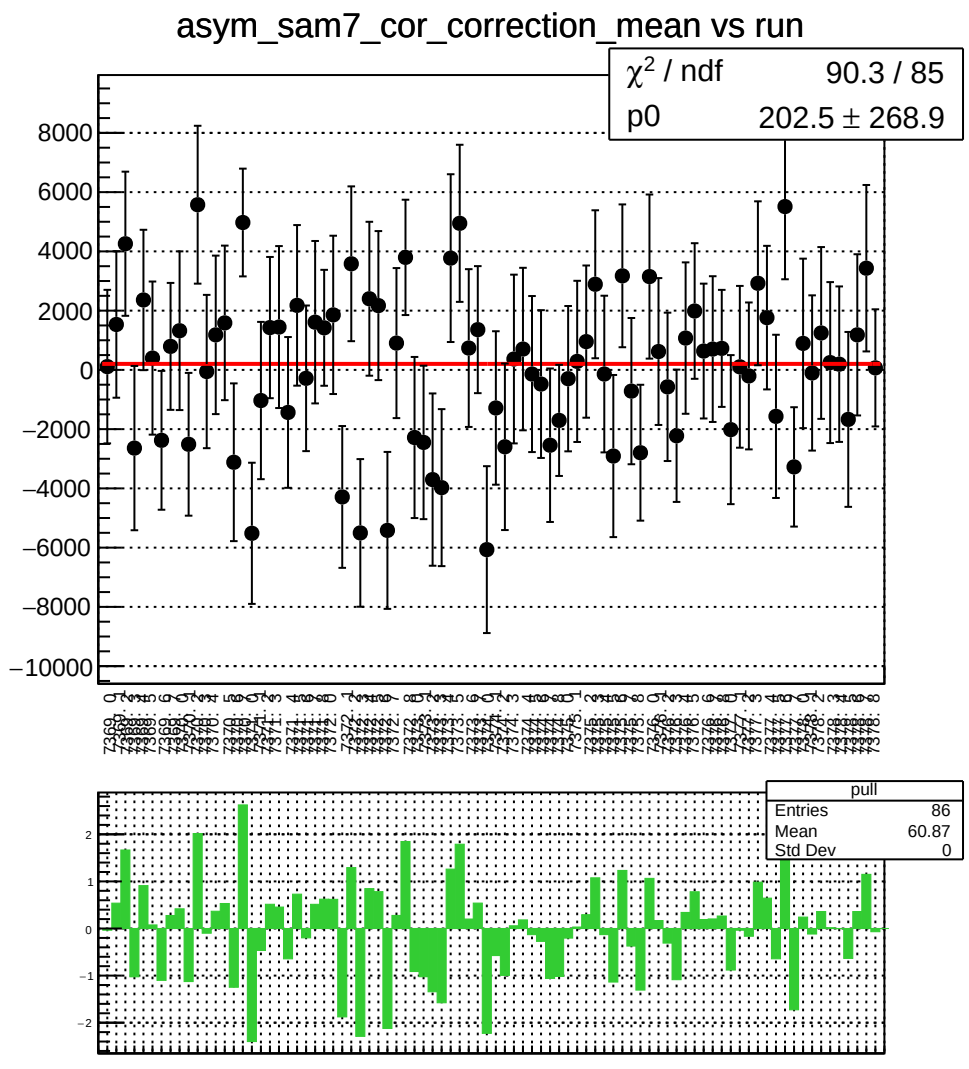

pull1D
Entries 86
Mean −0.01242
Std Dev 1.025

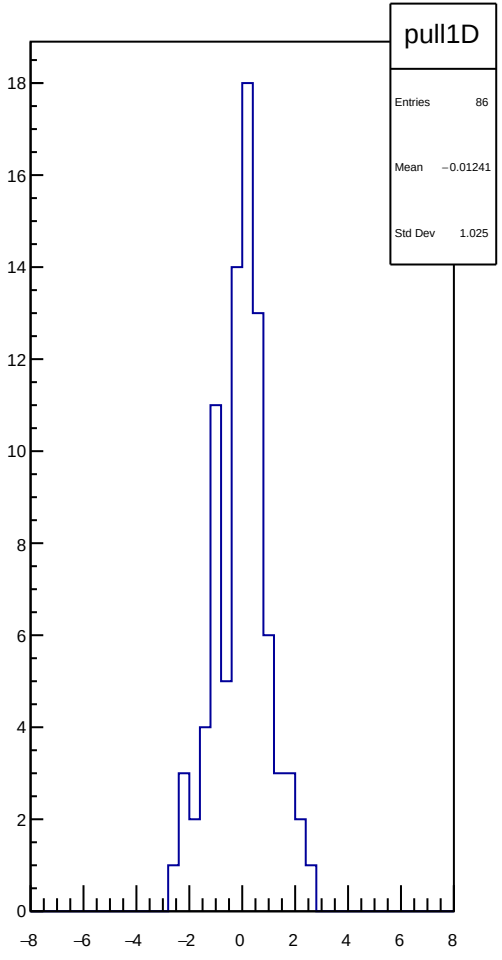

asym_sam7_reg_correction_rms vs run
χ² / ndf 5706 / 85
p0 246.3 ± 0.1901
280
270
260
250
240
230
220
210

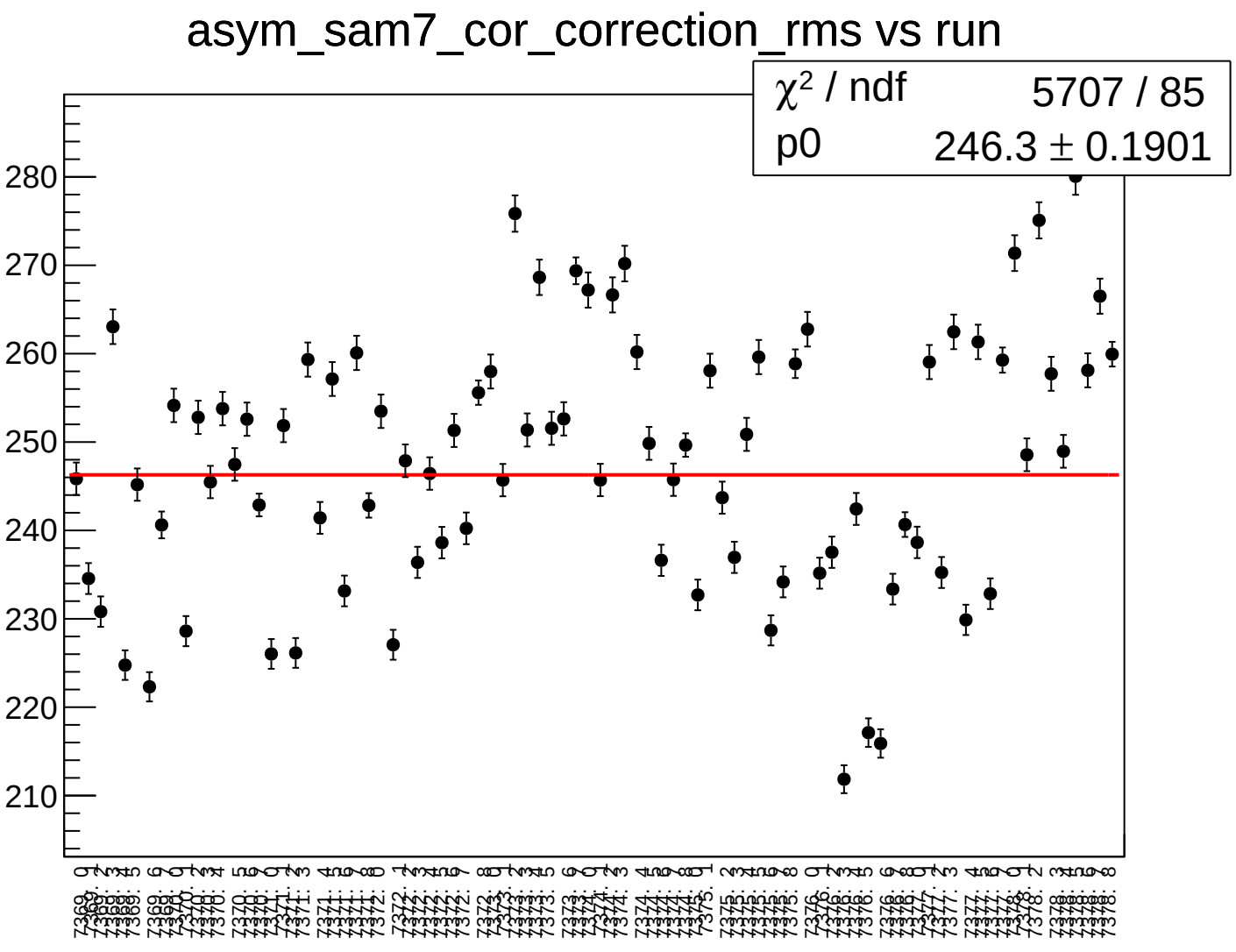

cor_asym_sam7_mean vs run
χ^2 / ndf 107.9 / 85
p0 79.76 ± 79.51
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 9.751
Std Dev 0
3
2
1
0
−1
−2

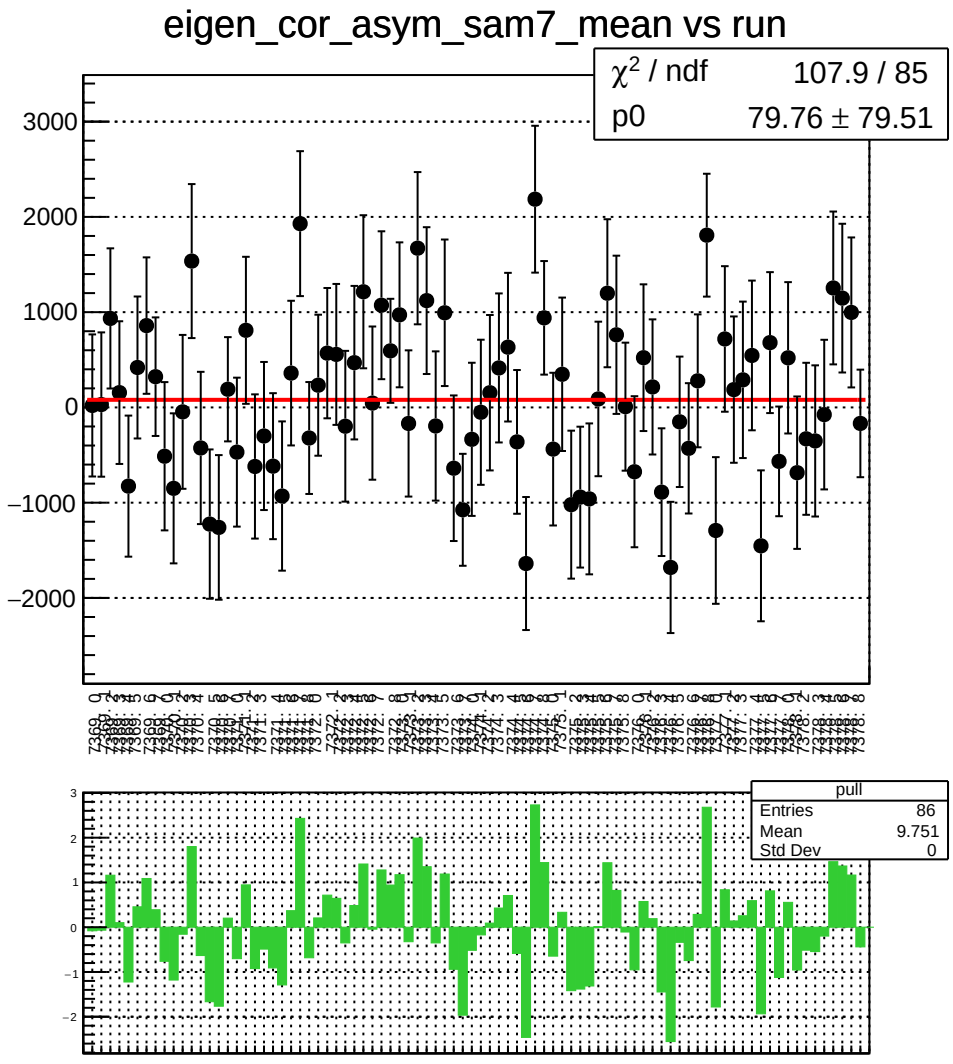

pull1D
Entries 86
Mean 0.007591
Std Dev 1.12
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

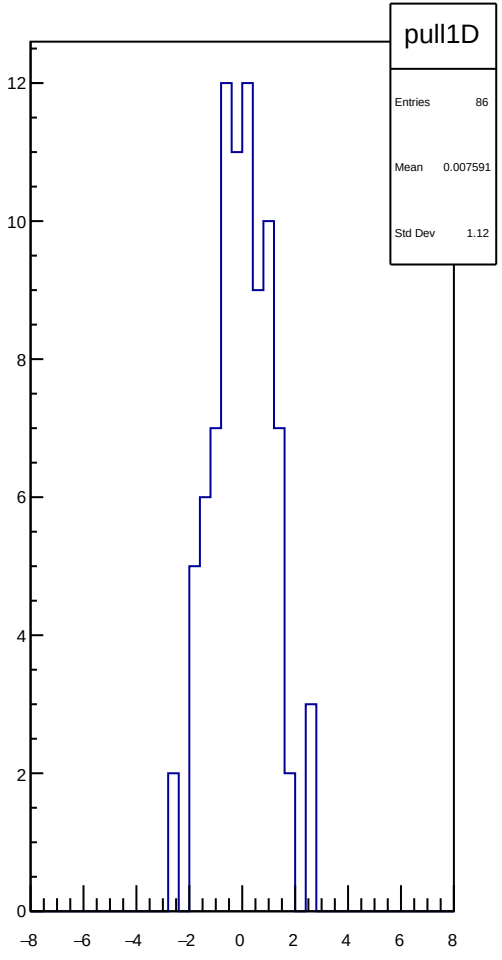

cor_asym_sam7_rms vs run
χ² / ndf 3696 / 85
p0 72.88 ± 0.05622
80
78
76
74
72
70
68
66
64
62

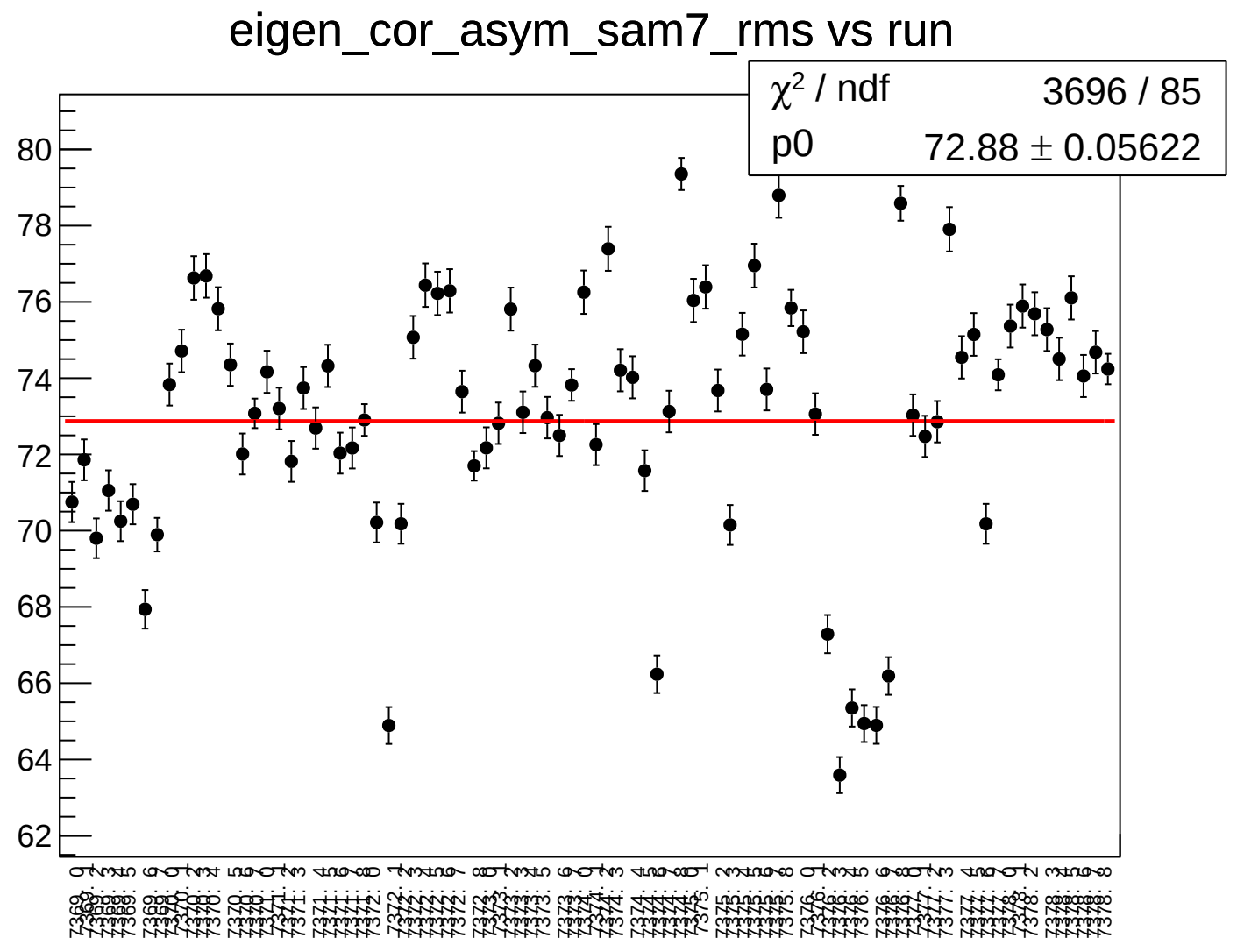

asym_sam7_cor_correction_mean vs run
χ² / ndf 90.3 / 85
p0 202.5 ± 268.9
pull
Entries 86
Mean 60.87
Std Dev 0

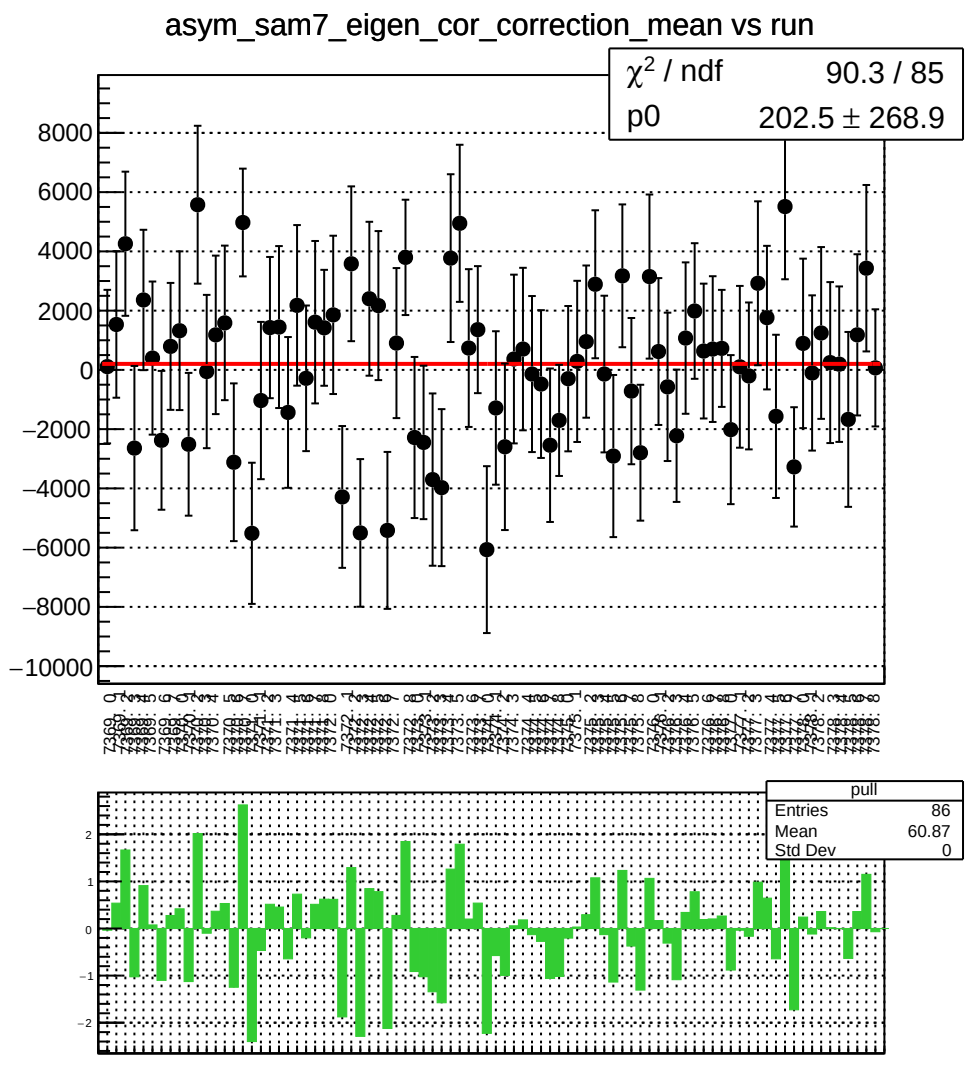

pull1D
Entries 86
Mean −0.01241
Std Dev 1.025

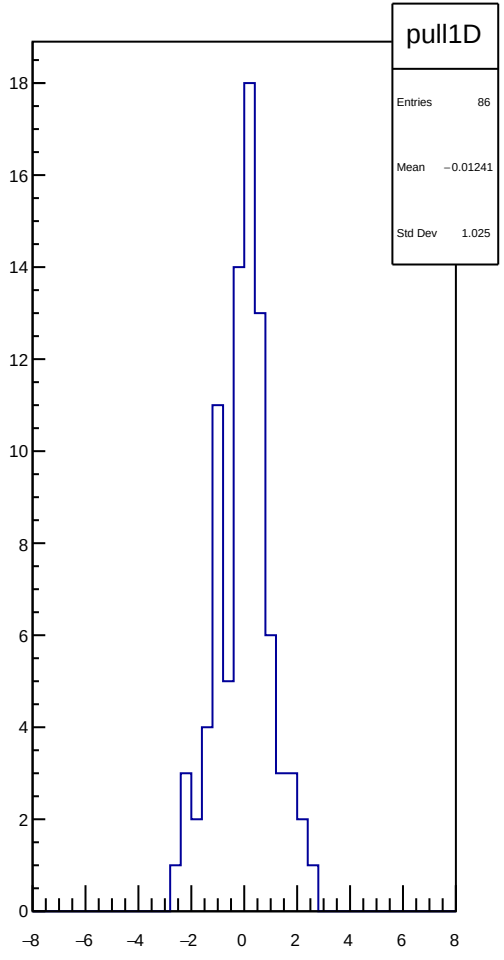

asym_sam7_cor_correction_rms vs run
χ² / ndf 5707 / 85
p0 246.3 ± 0.1901
280
270
260
250
240
230
220
210

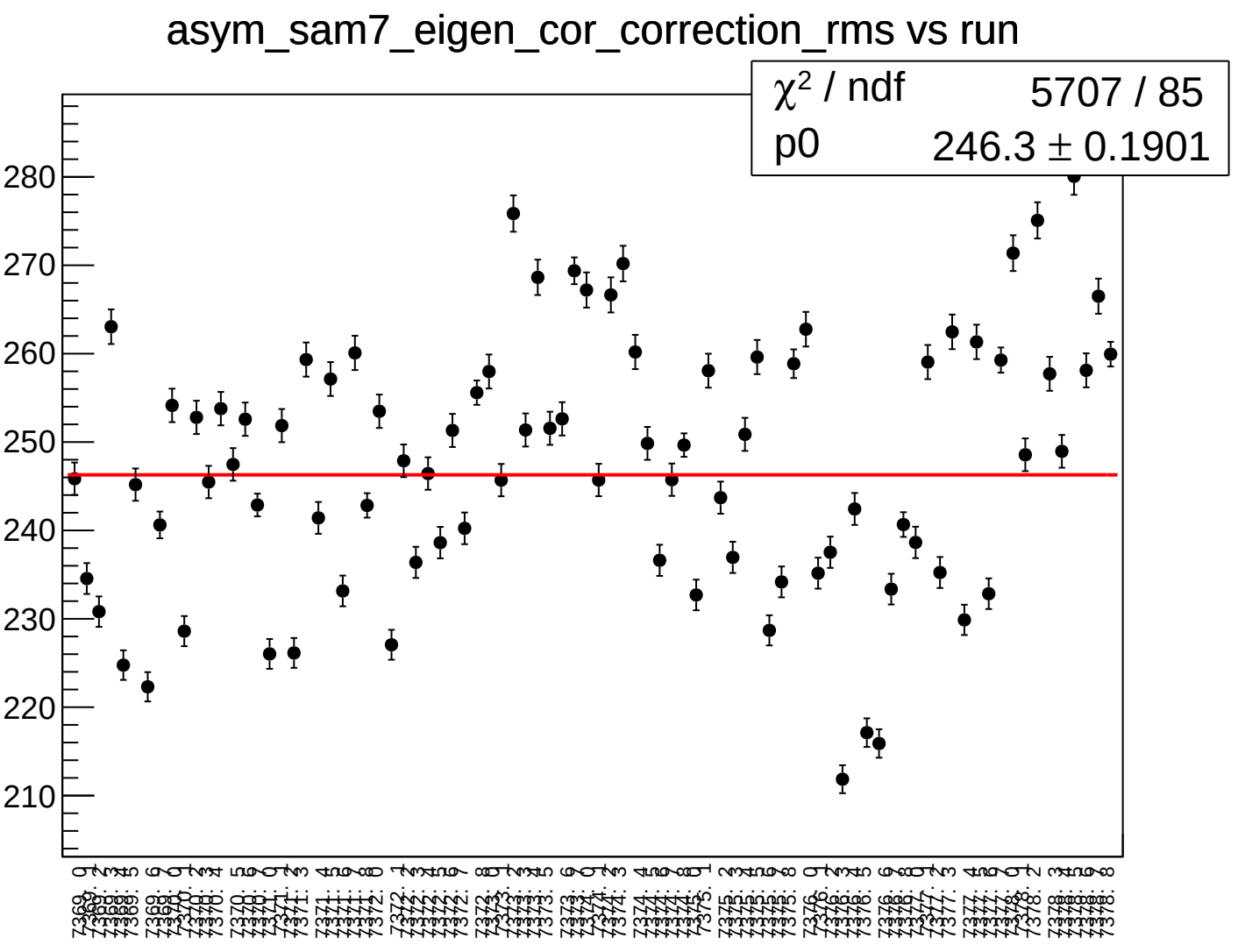

eigen_cor_asym_sam7_mean vs run
χ² / ndf 107.9 / 85
p0 79.76 ± 79.51
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 9.751
Std Dev 0
3
2
1
0
−1
−2

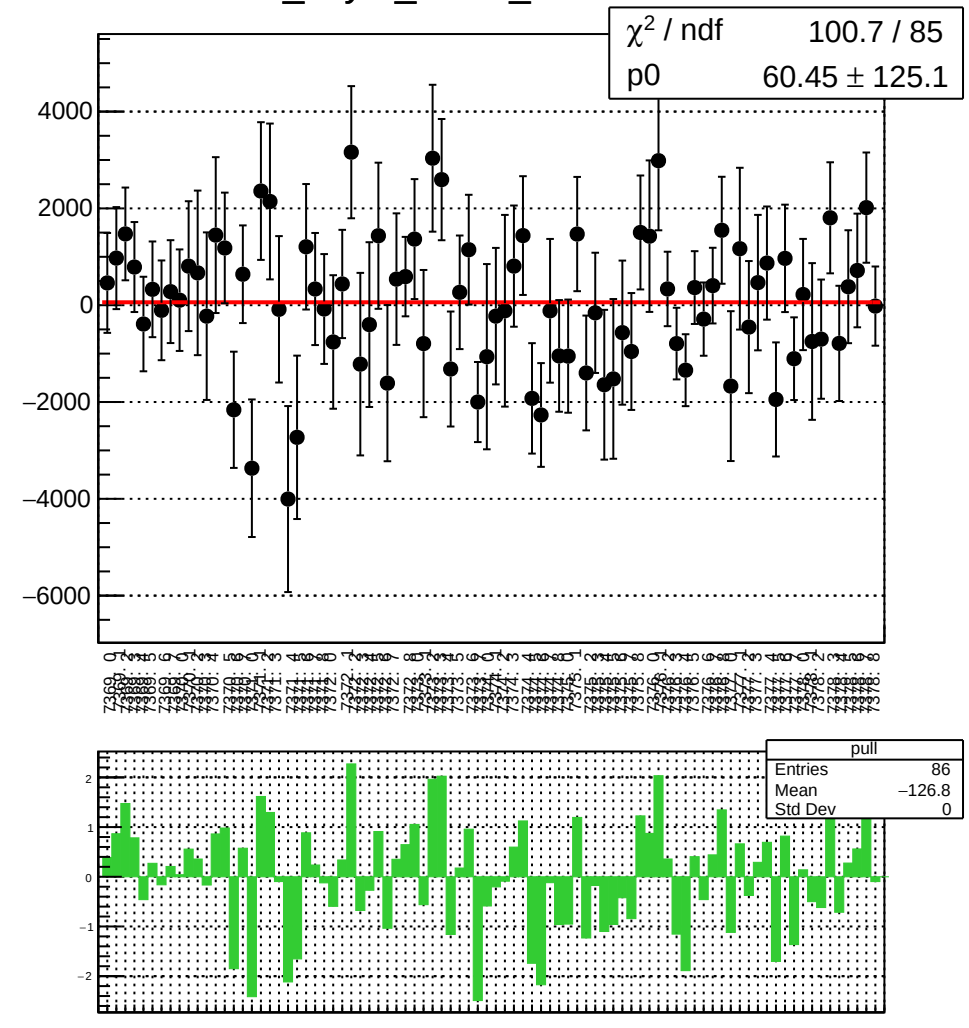

pull1D
Entries 86
Mean 0.007591
Std Dev 1.12
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

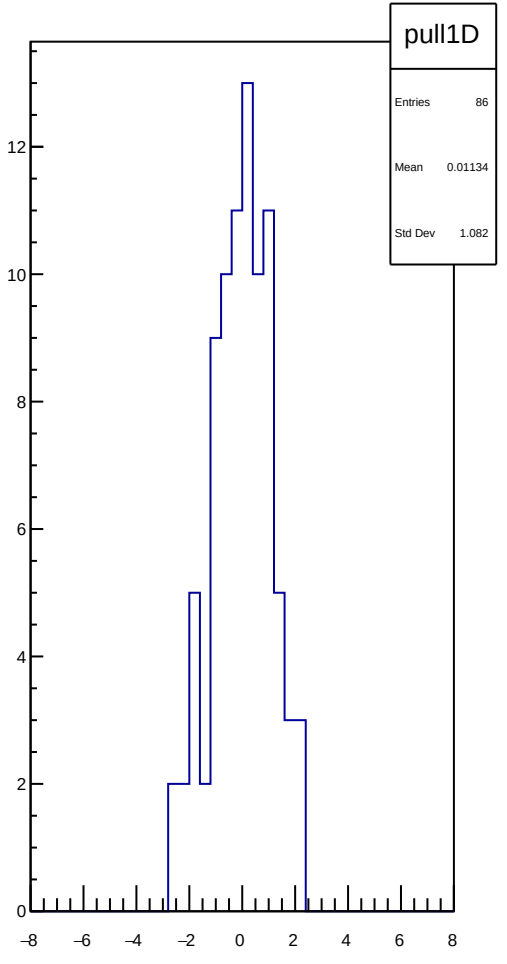

eigen_cor_asym_sam7_rms vs run
χ² / ndf 3696 / 85
p0 72.88 ± 0.05622
80
78
76
74
72
70
68
66
64
62

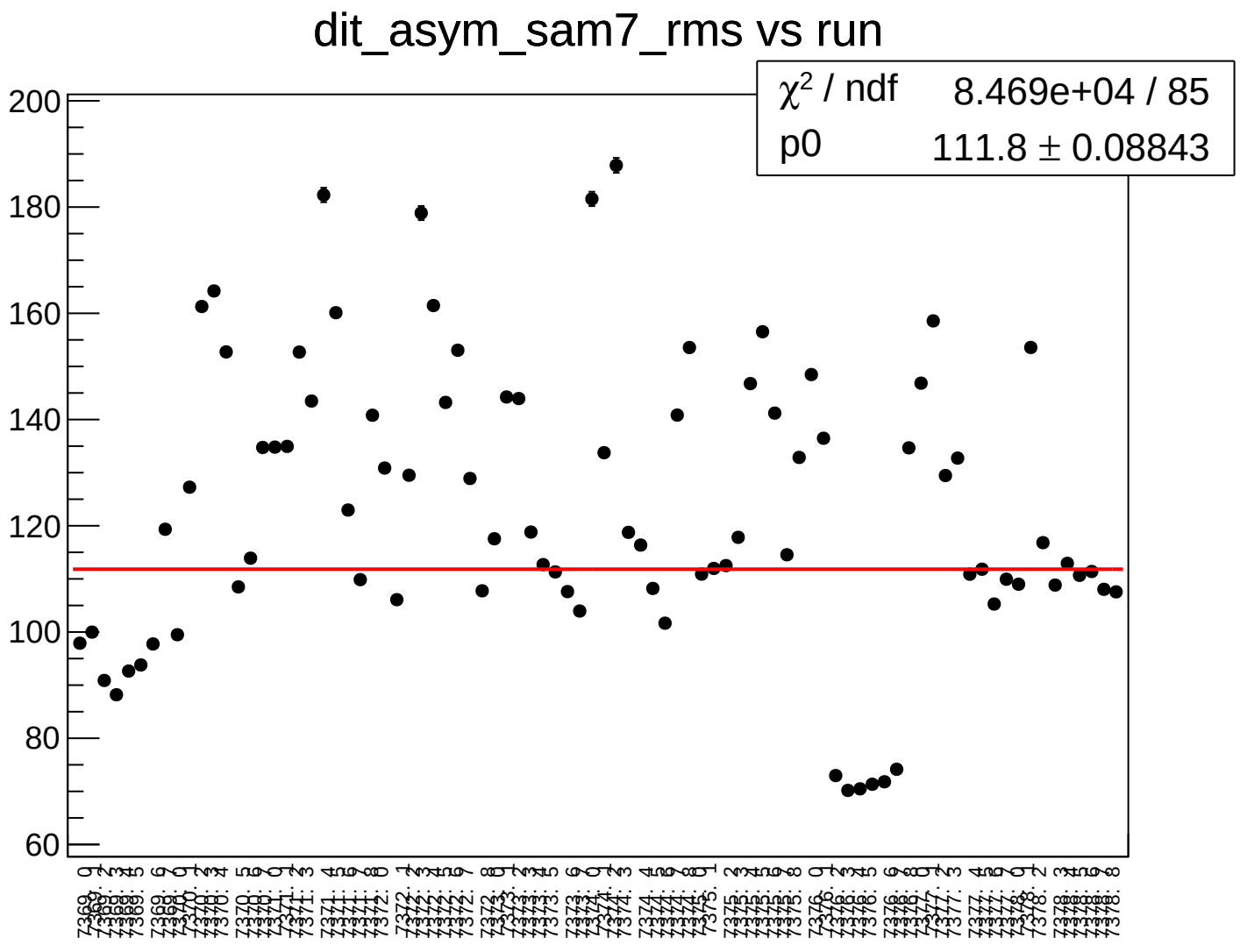

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 90.3 / 85
p0 202.5 ± 268.9
pull
Entries 86
Mean 60.87
Std Dev 0

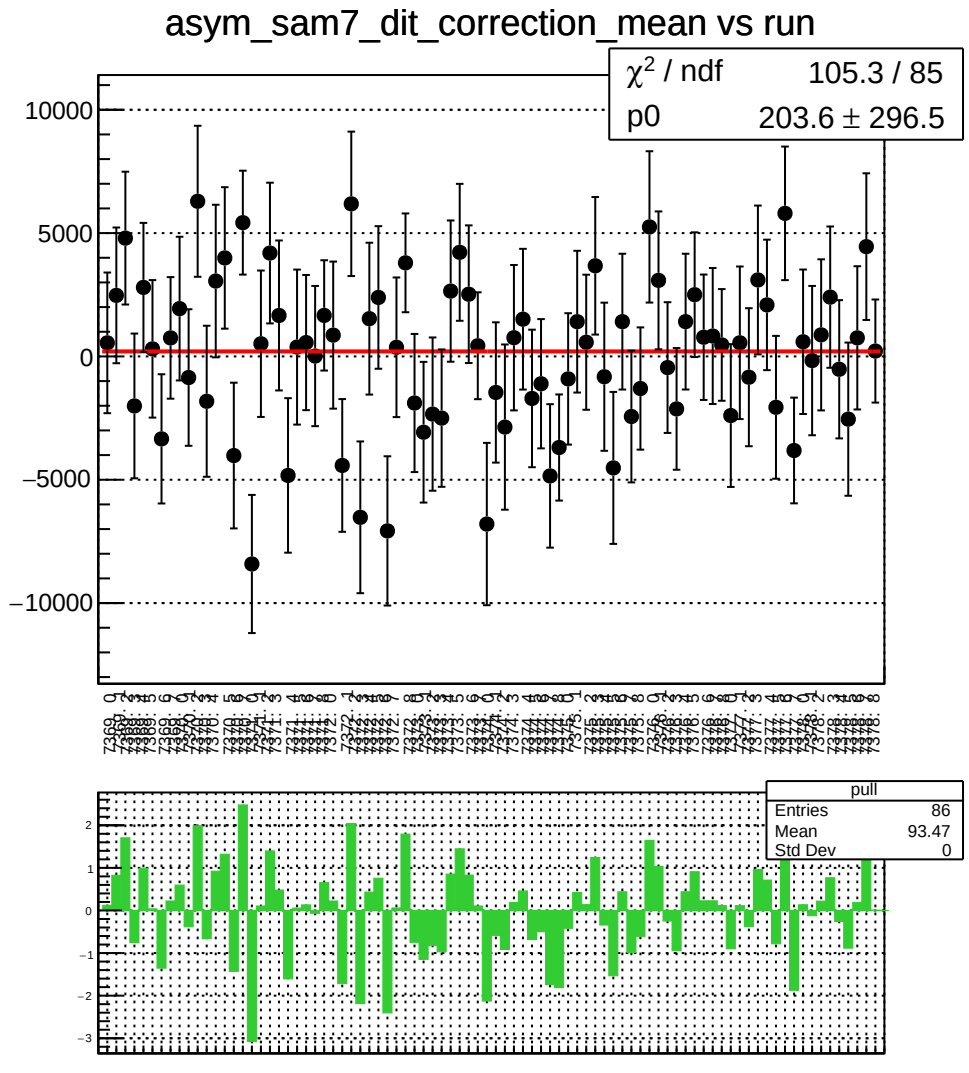

pull1D
Entries 86
Mean −0.01241
Std Dev 1.025

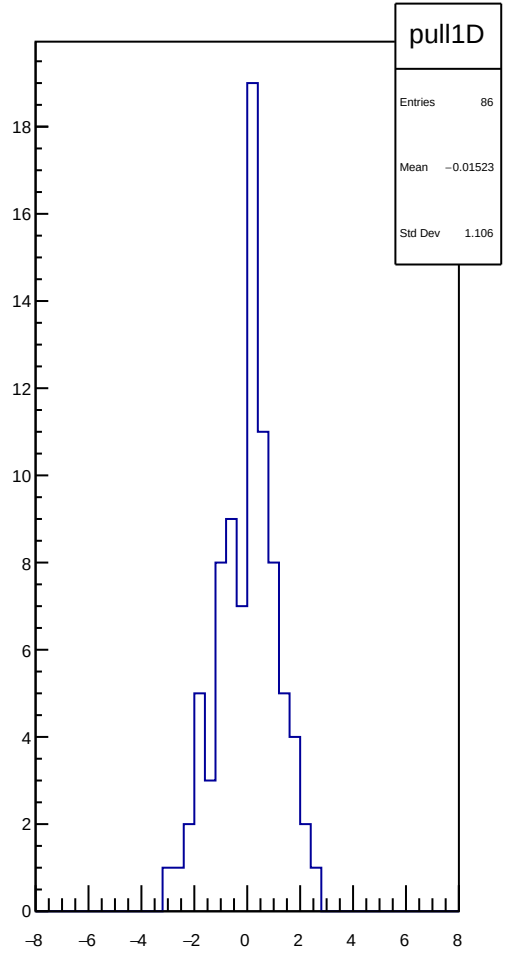

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 5707 / 85
p0 246.3 ± 0.1901
280
270
260
250
240
230
220
210

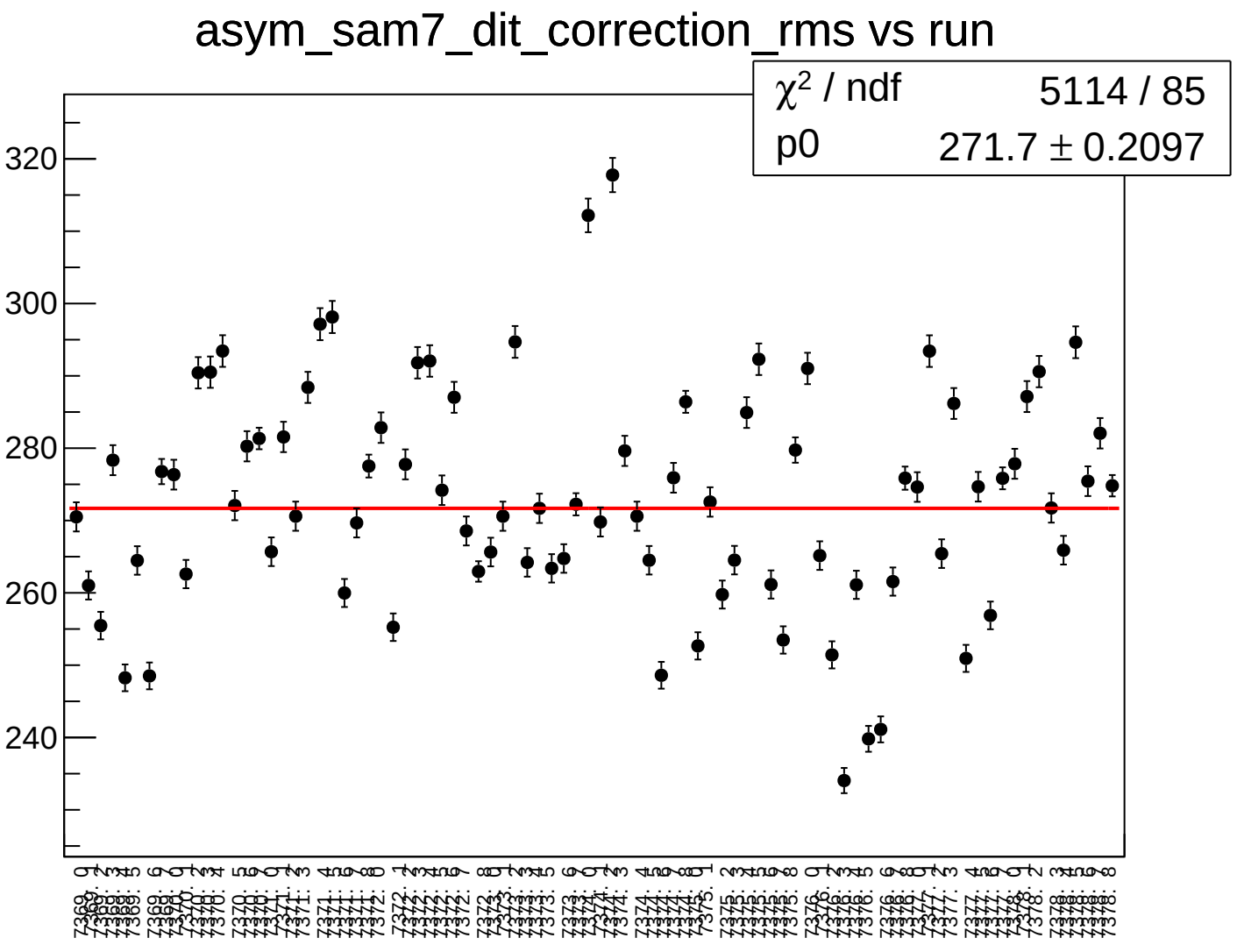

dit_asym_sam7_mean vs run
χ^2 / ndf 100.7 / 85
p0 60.45 ± 125.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −126.8
Std Dev 0
2
1
0
−1
−2

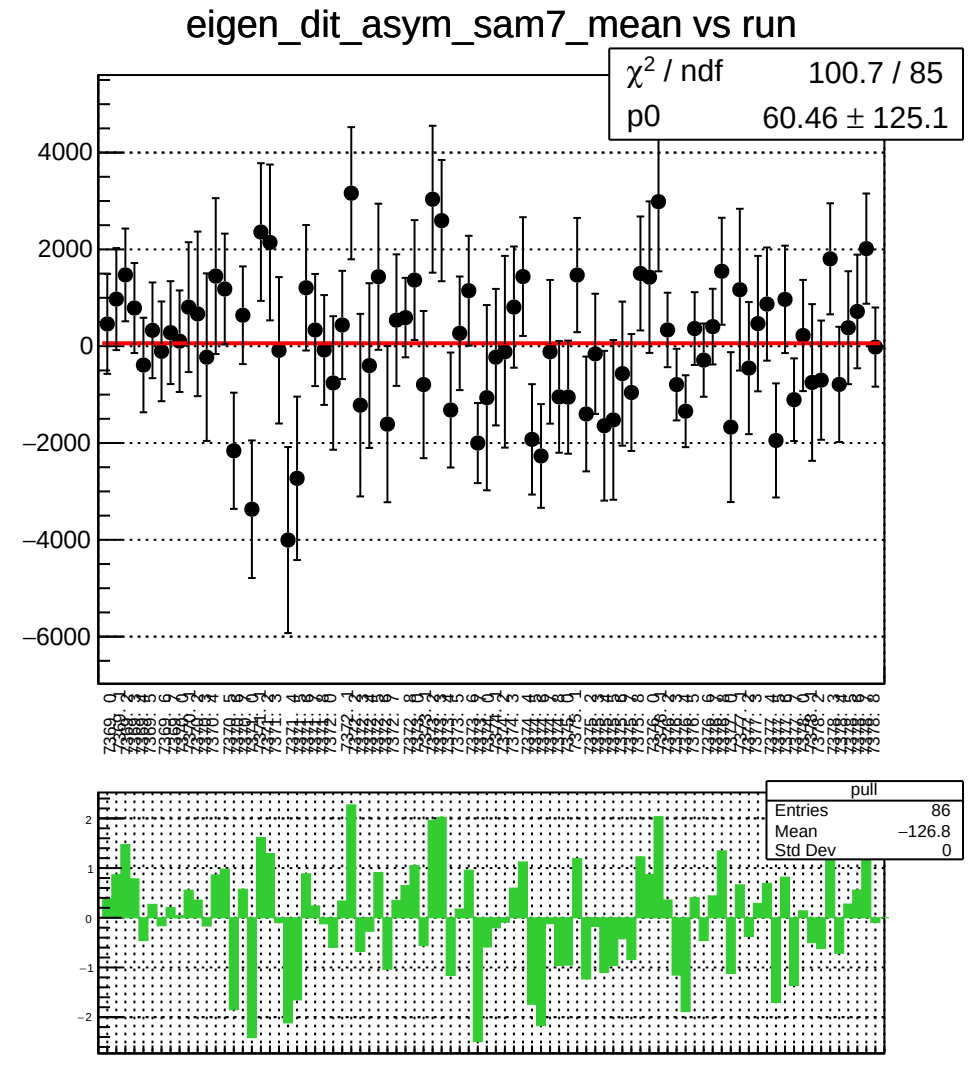

pull1D
Entries 86
Mean 0.01134
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

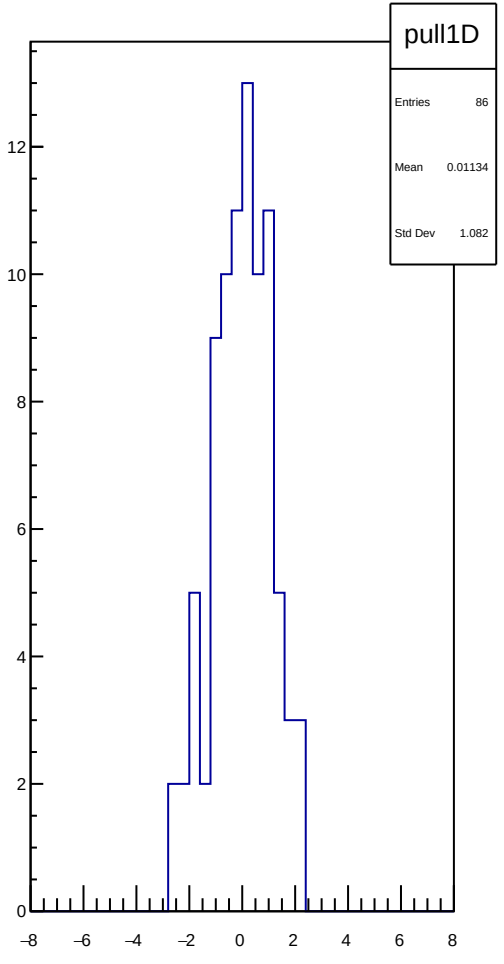

dit_asym_sam7_rms vs run
χ² / ndf 8.469e+04 / 85
p0 111.8 ± 0.08843
200
180
160
140
120
100
80
60

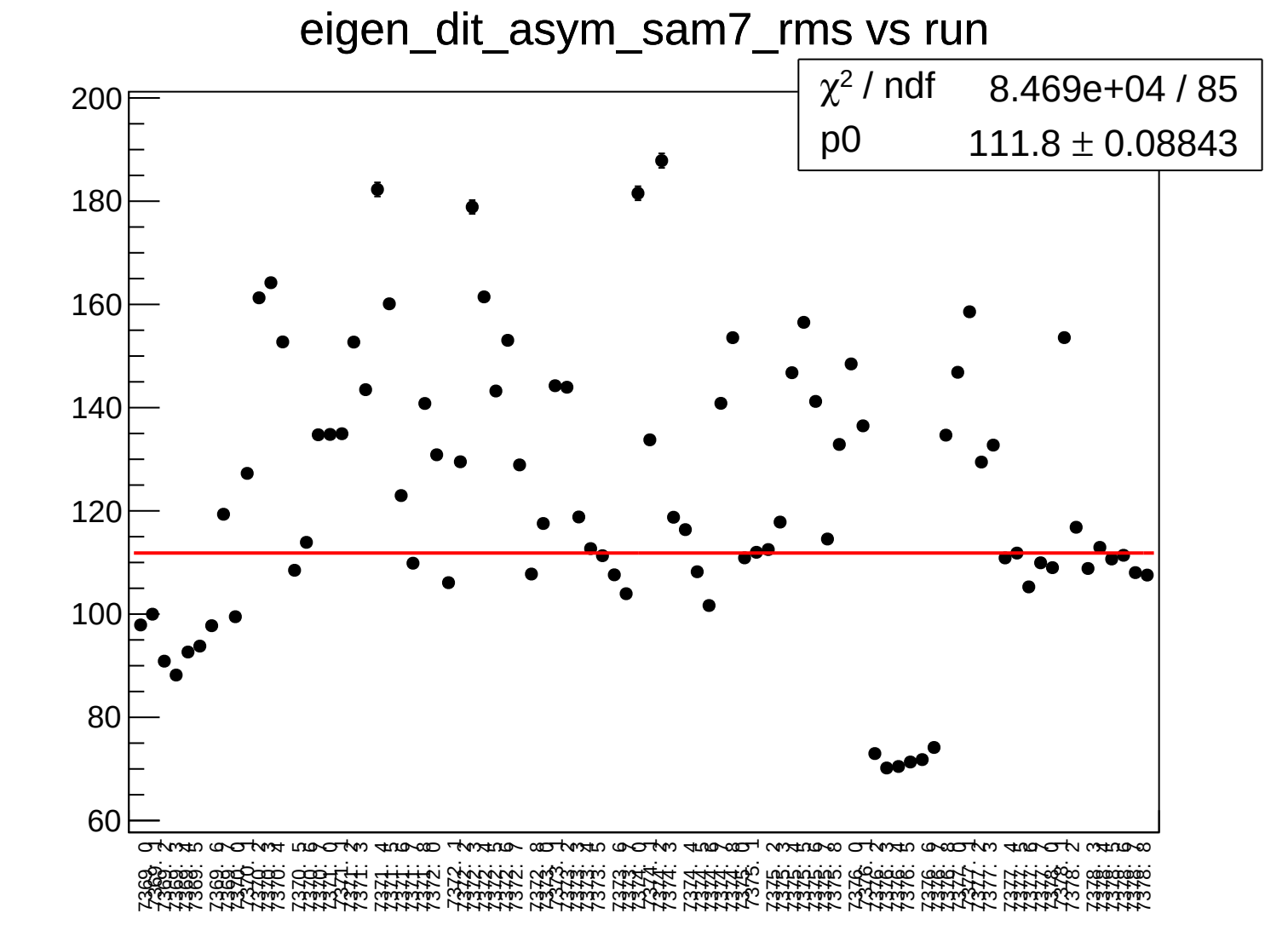

asym_sam7_dit_correction_mean vs run
χ² / ndf 105.3 / 85
p0 203.6 ± 296.5
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 93.47
Std Dev 0
2
1
0
−1
−2
−3

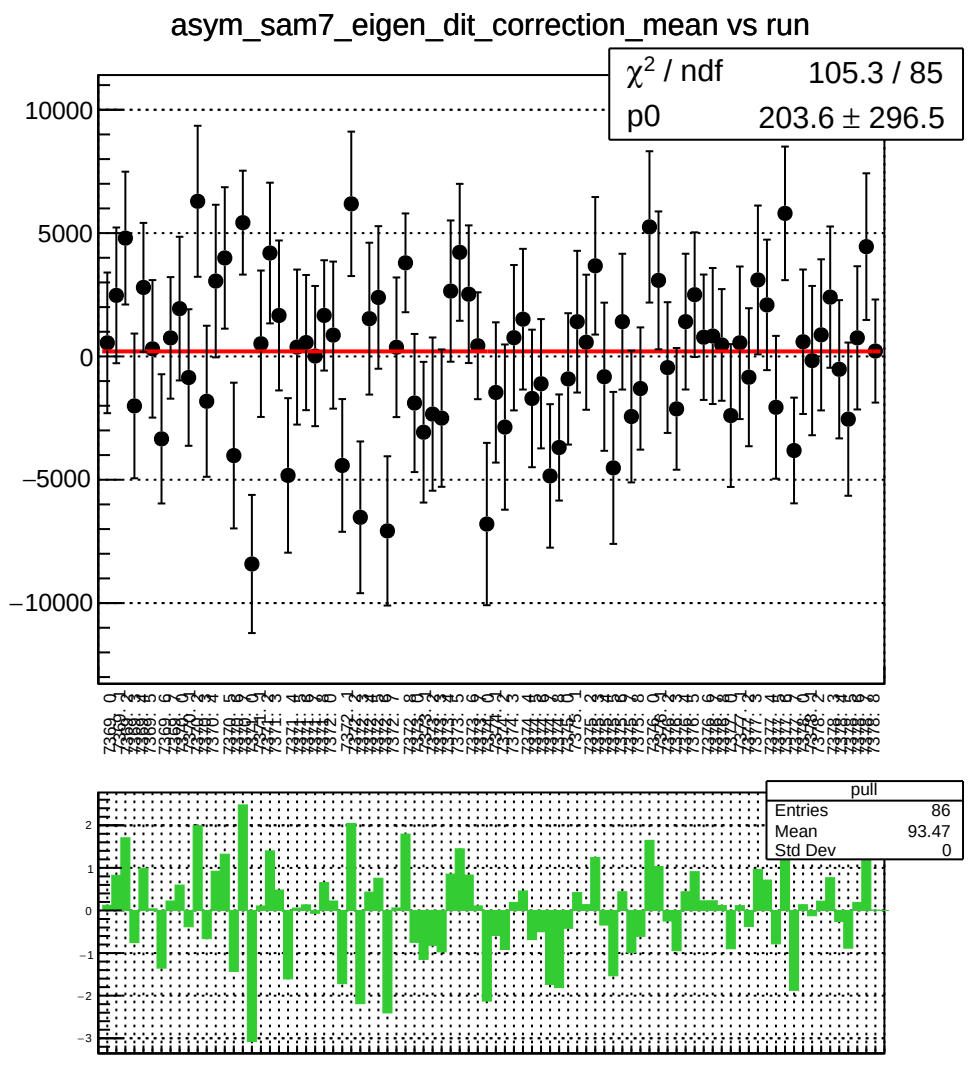

pull1D
Entries 86
Mean −0.01523
Std Dev 1.106
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

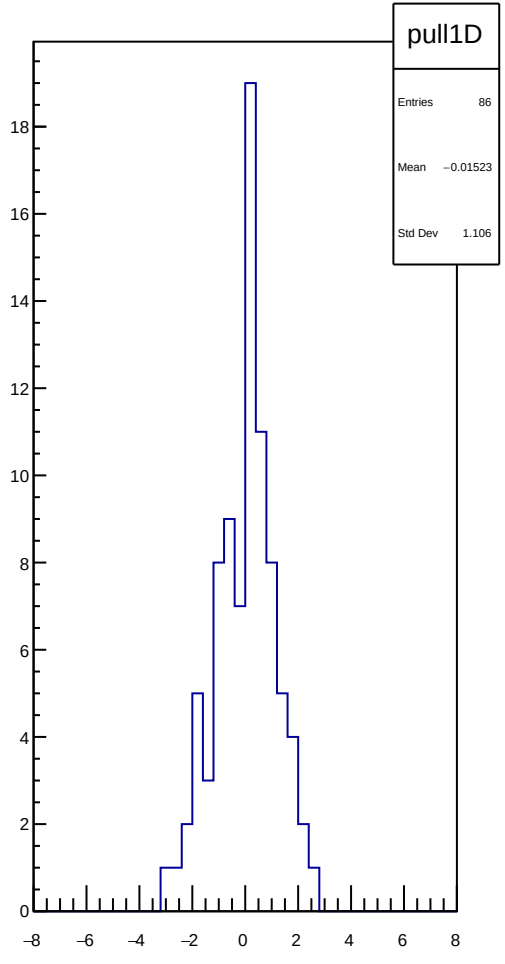

asym_sam7_dit_correction_rms vs run
χ² / ndf 5114 / 85
p0 271.7 ± 0.2097
320
300
280
260
240

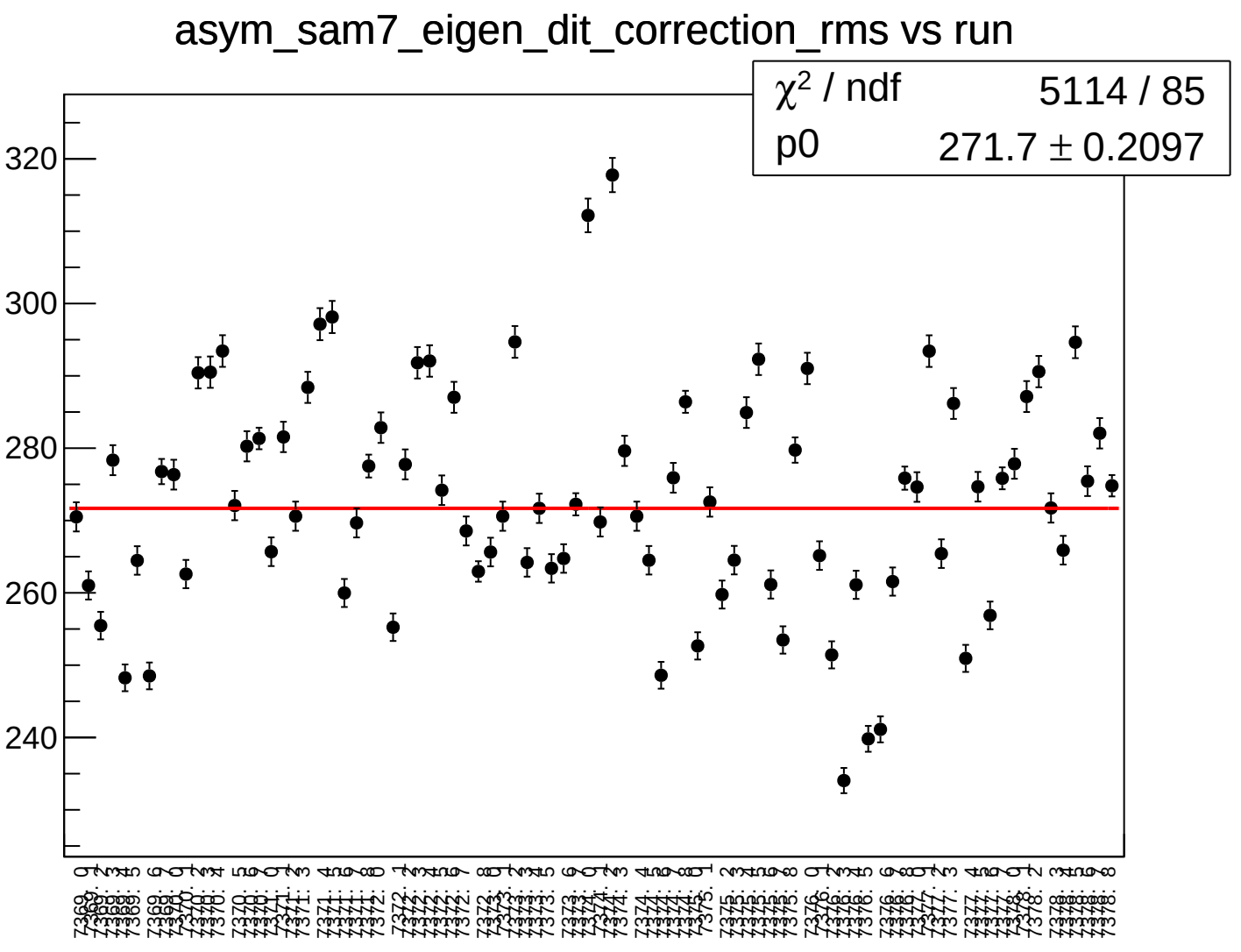

eigen_dit_asym_sam7_mean vs run
χ^2 / ndf 100.7 / 85
p0 60.46 ± 125.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −126.8
Std Dev 0
2
1
0
−1
−2

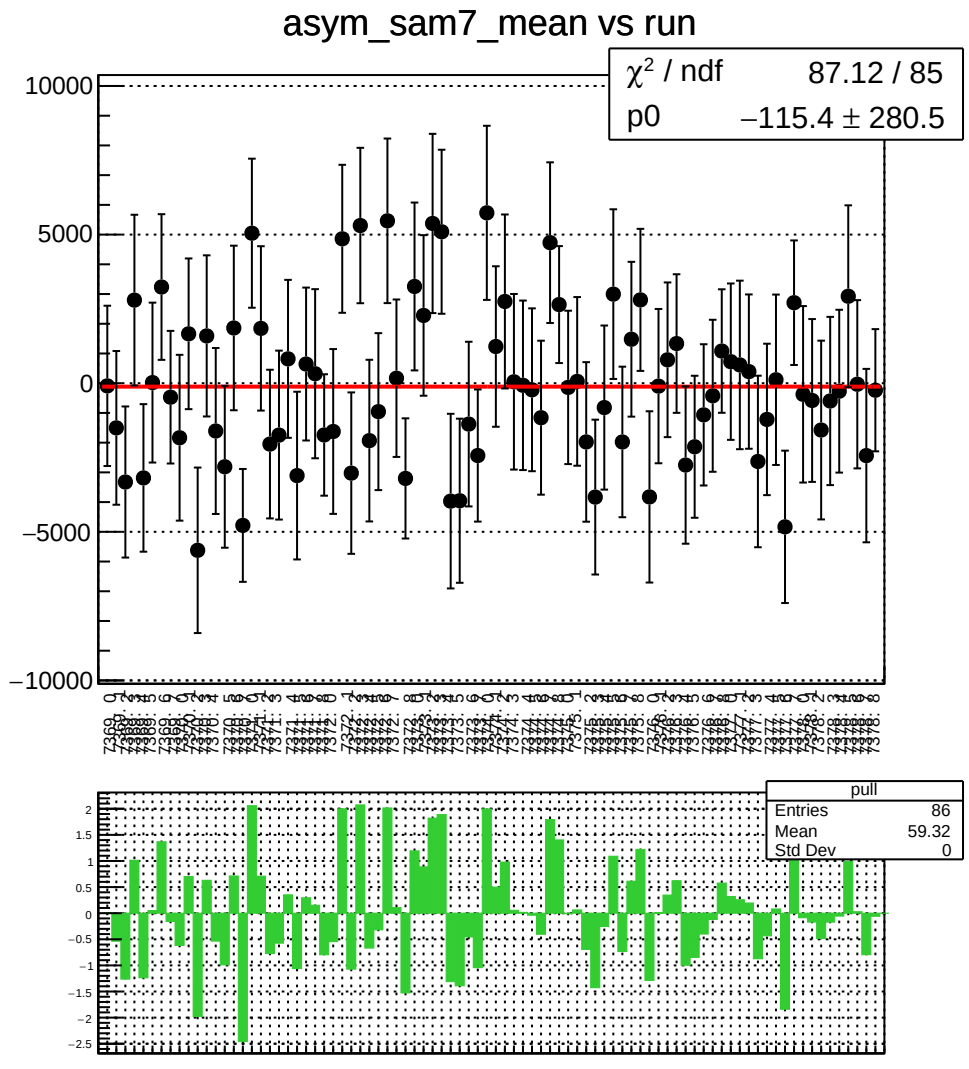

pull1D
Entries 86
Mean 0.01134
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

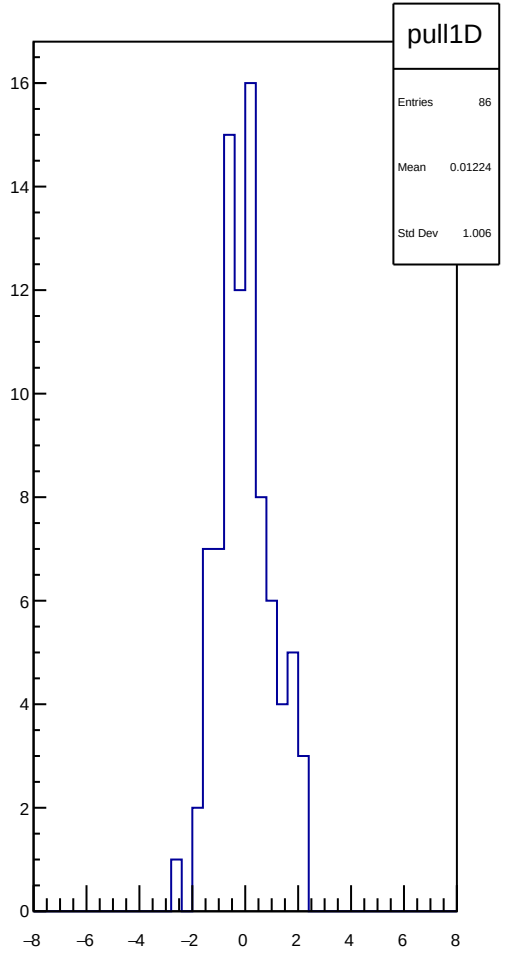

eigen_dit_asym_sam7_rms vs run
χ² / ndf 8.469e+04 / 85
p0 111.8 ± 0.08843
200
180
160
140
120
100
80
60

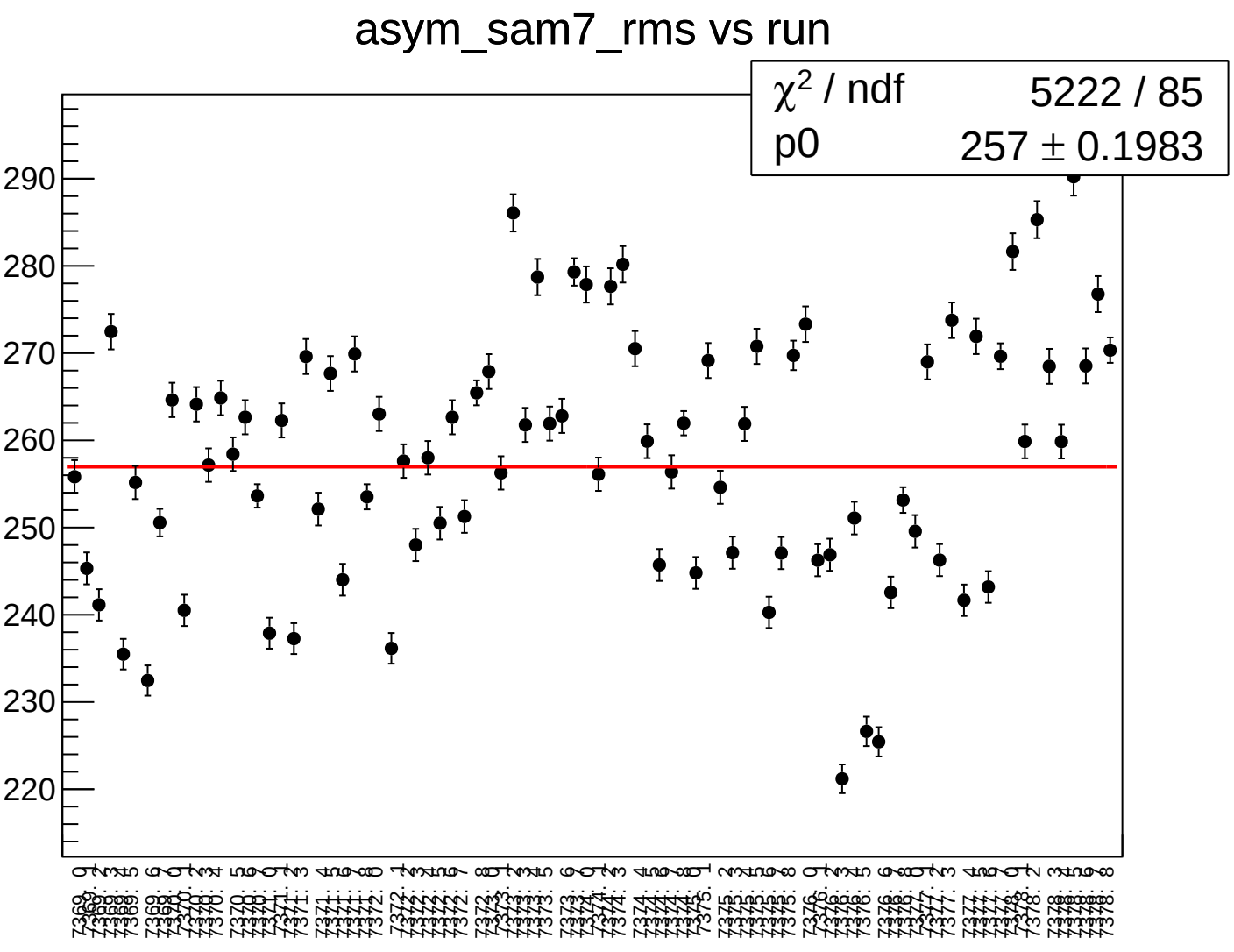

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 105.3 / 85
p0 203.6 ± 296.5
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 93.47
Std Dev 0
2
1
0
−1
−2
−3

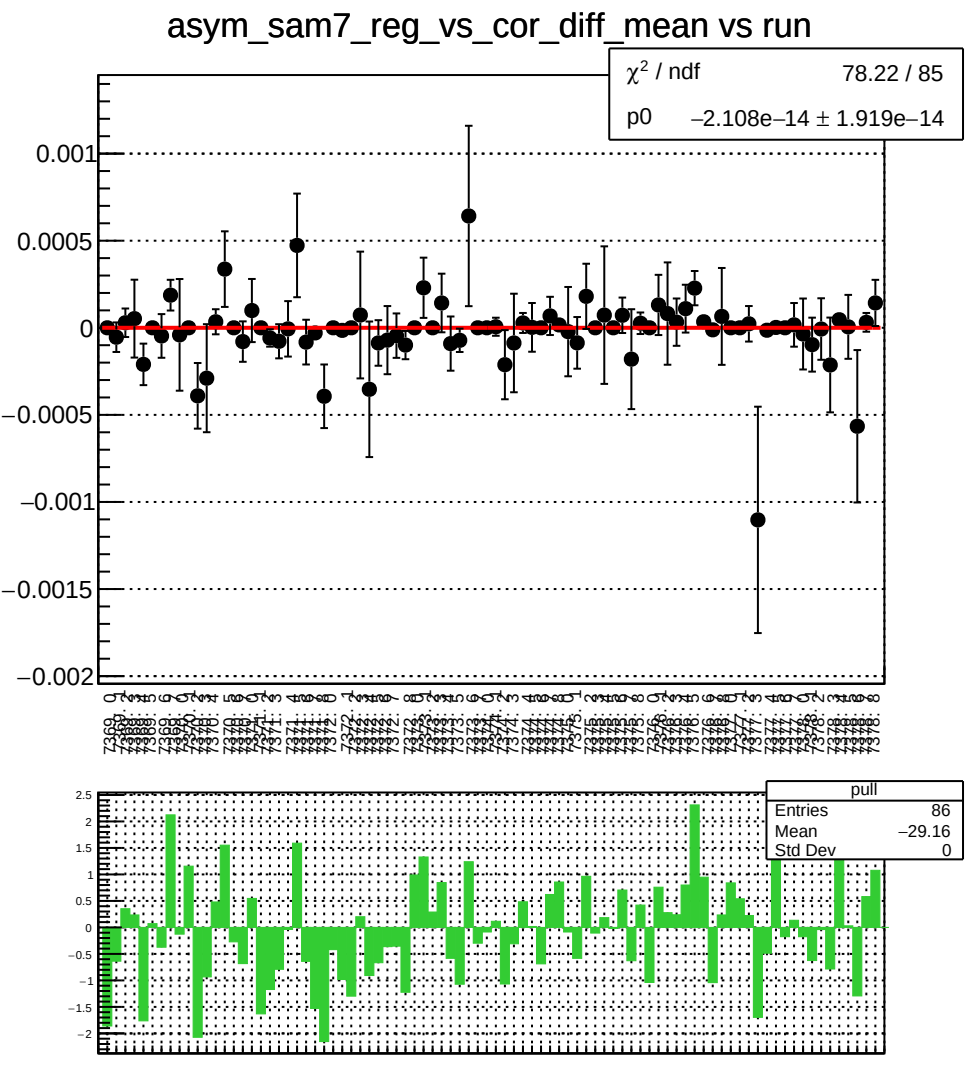

pull1D
Entries 86
Mean −0.01523
Std Dev 1.106
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

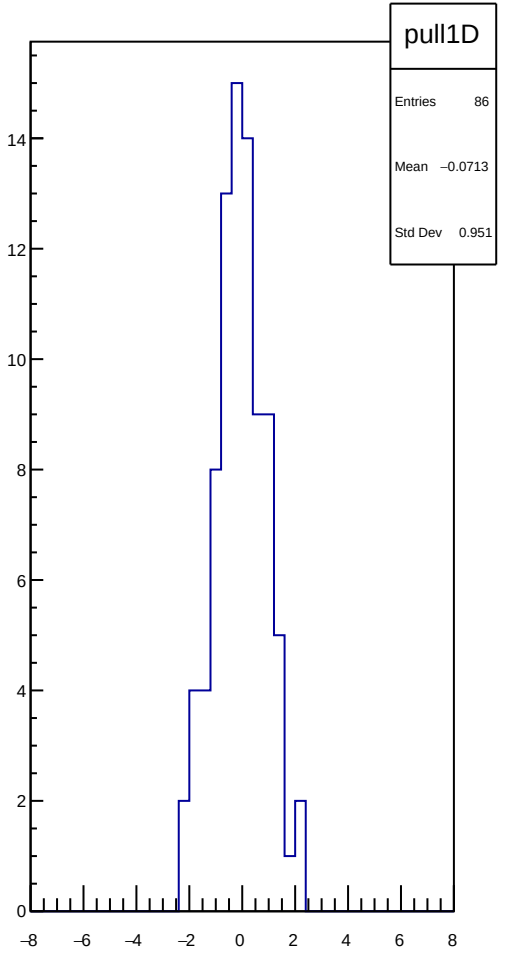

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 5114 / 85
p0 271.7 ± 0.2097
320
300
280
260
240

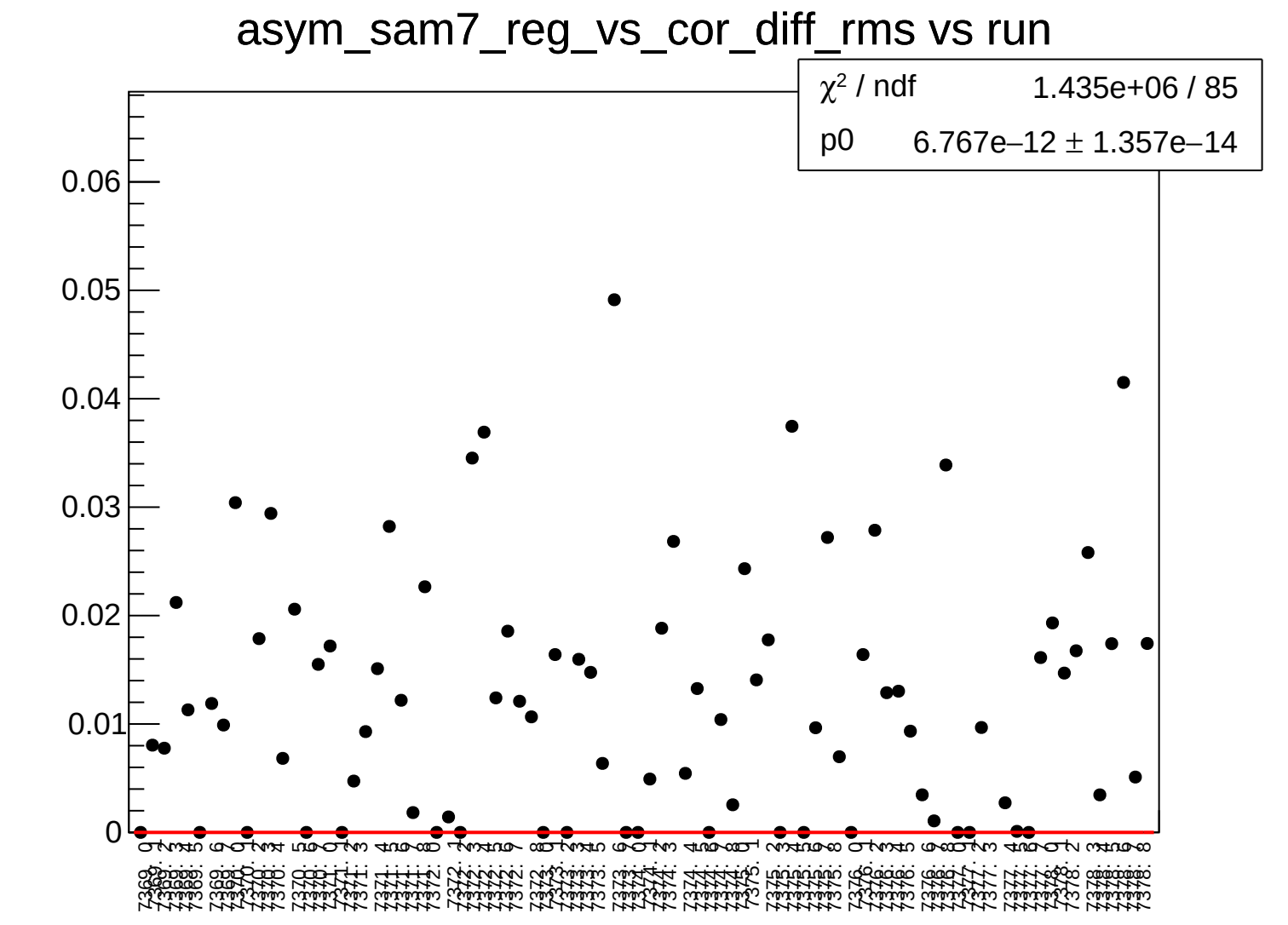

asym_sam7_mean vs run
χ² / ndf 87.12 / 85
p0 −115.4 ± 280.5
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 59.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

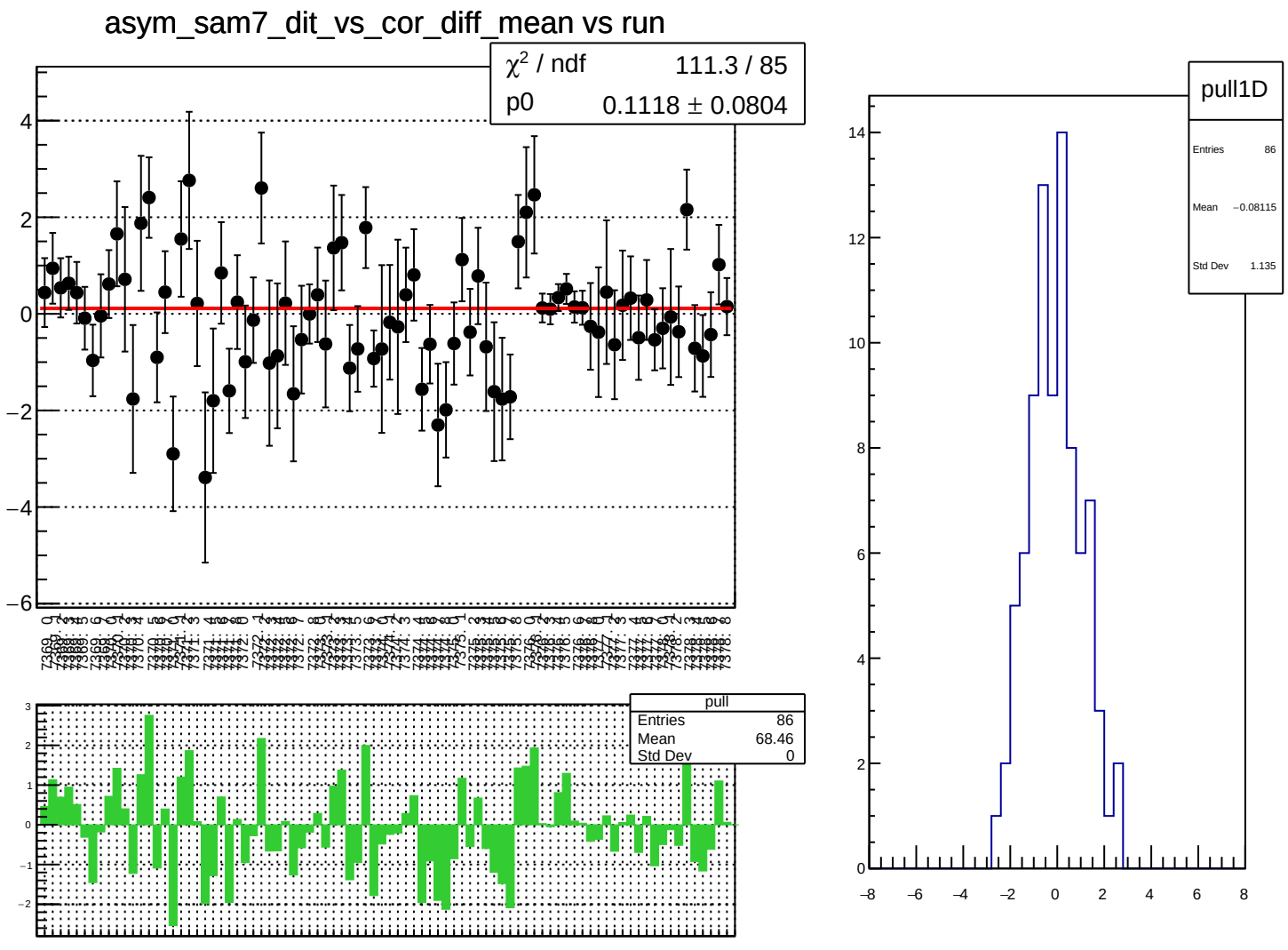

pull1D
Entries 86
Mean 0.01224
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

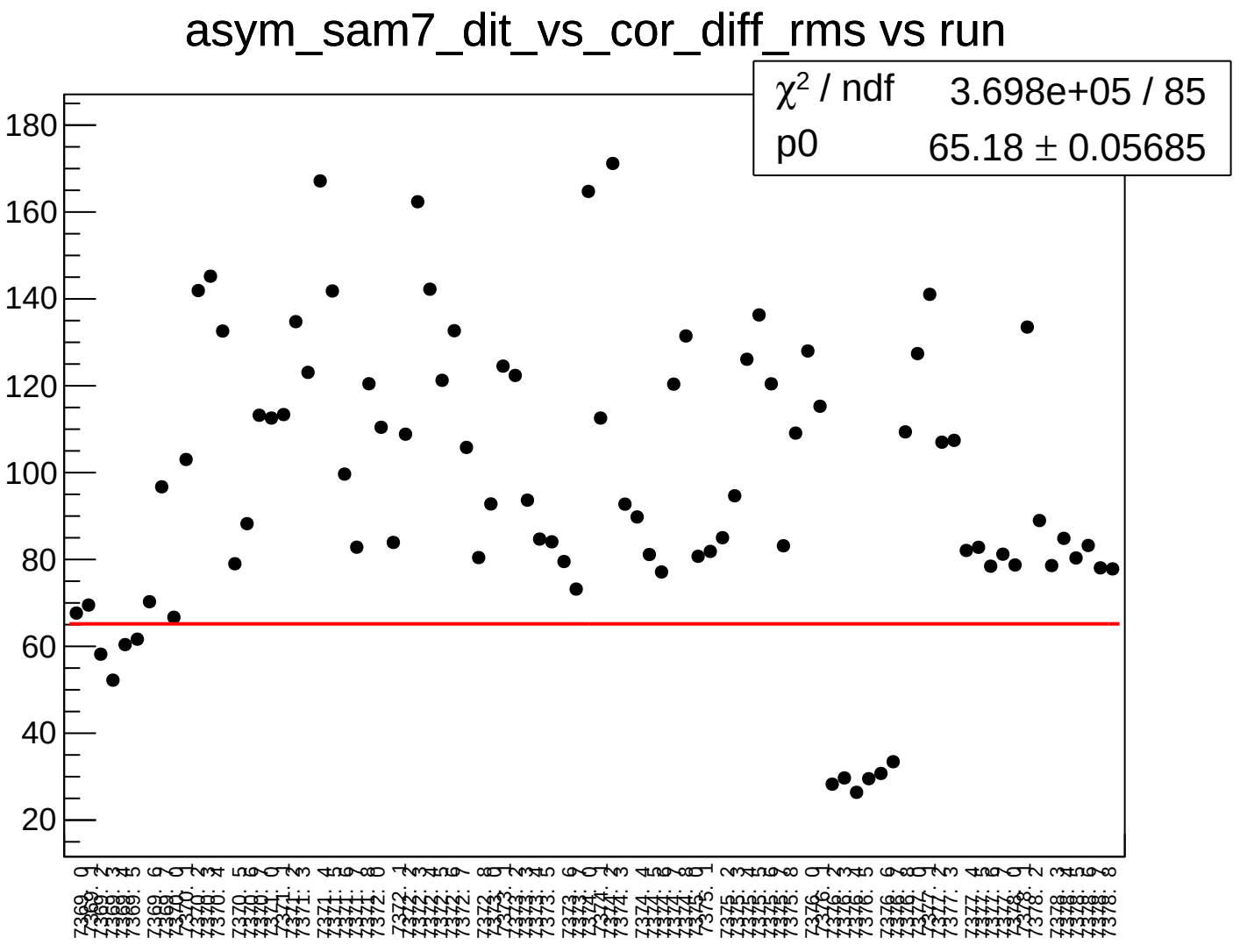

asym_sam7_rms vs run
χ^2 / ndf 5222 / 85
p0 257 ± 0.1983
290
280
270
260
250
240
230
220

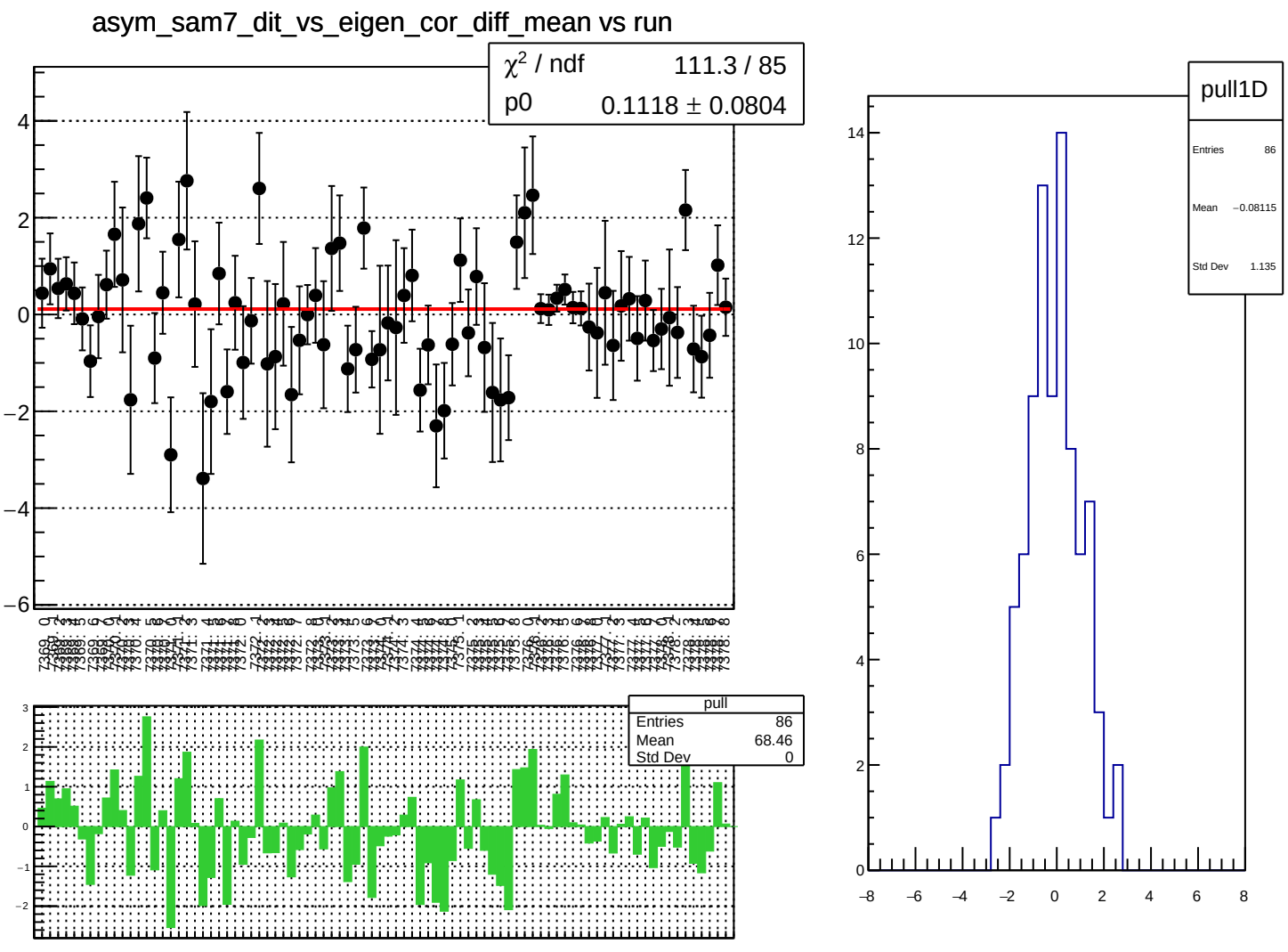

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 78.22 / 85
p0 −2.108e−14 ± 1.919e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 86
Mean −29.16
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

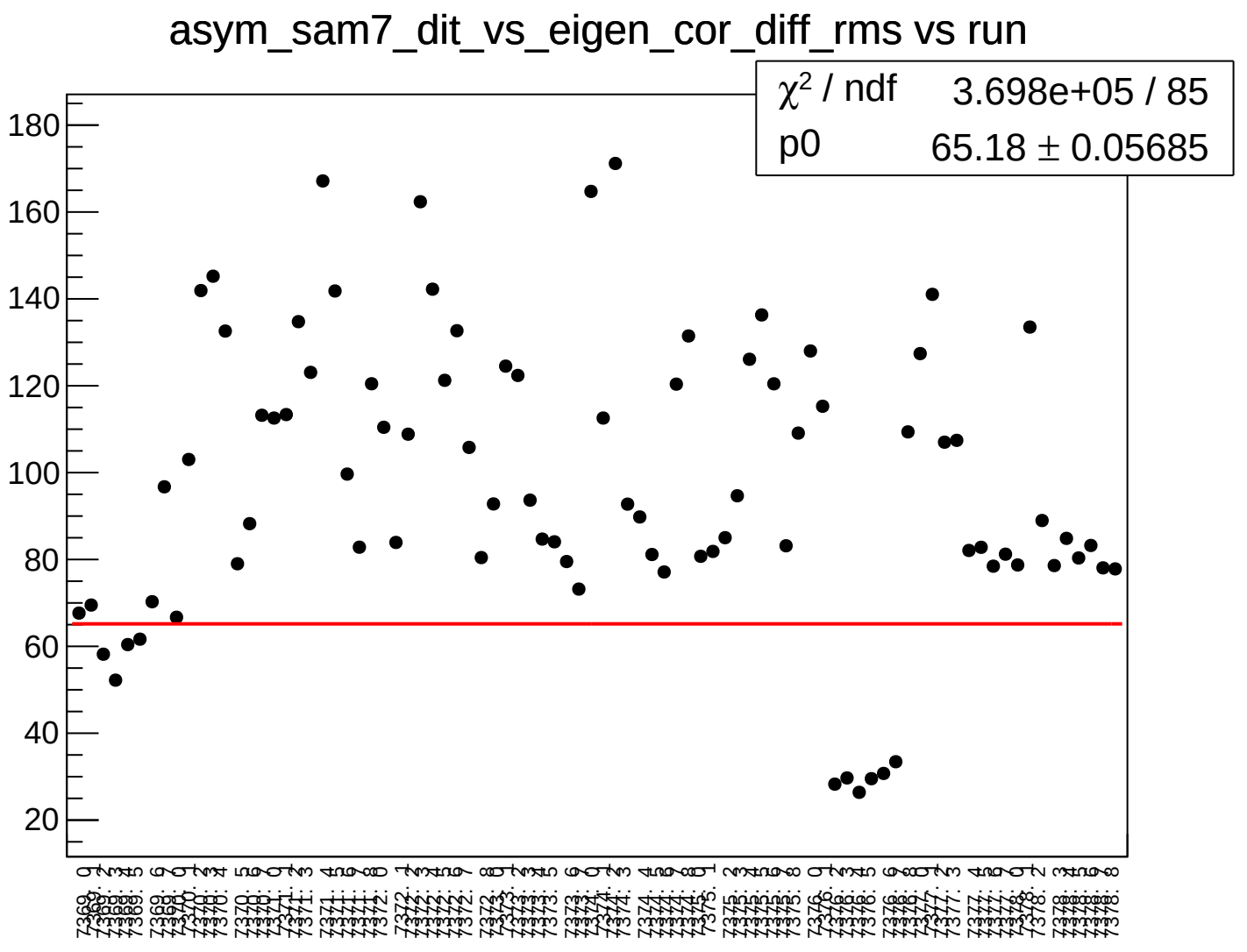

pull1D
Entries 86
Mean −0.0713
Std Dev 0.951
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

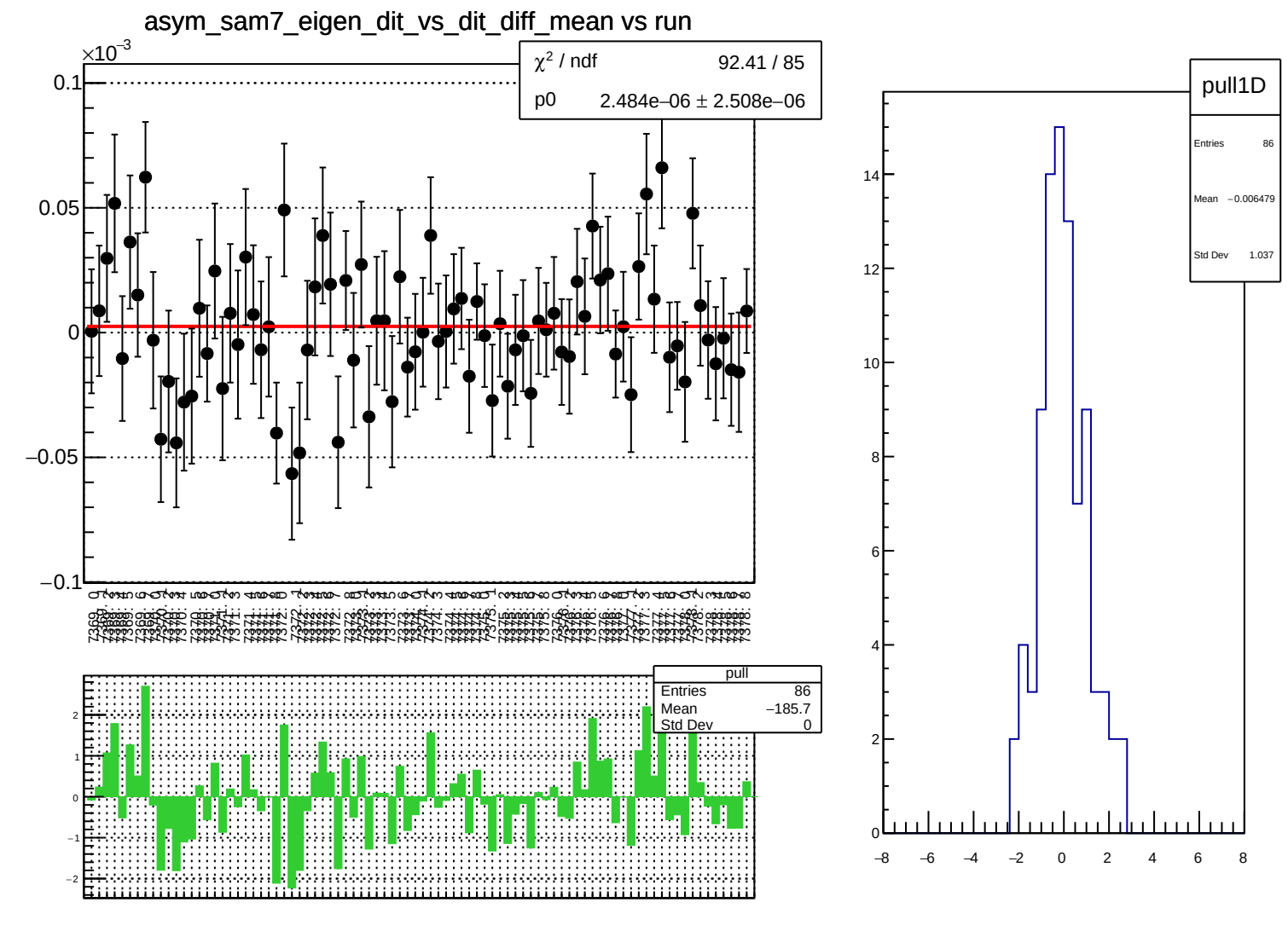

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.435e+06 / 85
p0 6.767e−12 ± 1.357e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

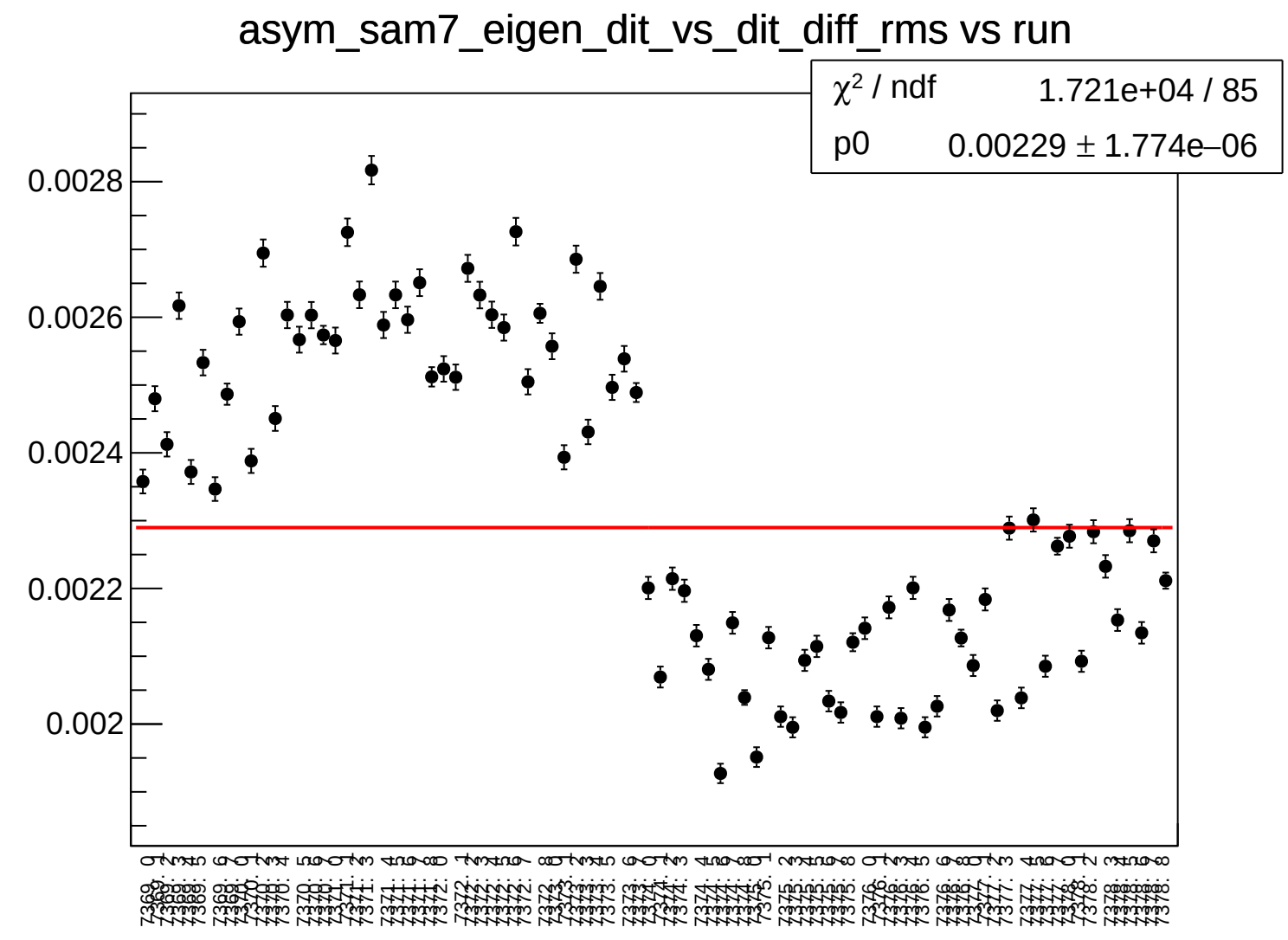

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 85
p0 0.1118 ± 0.0804
pull
Entries 86
Mean 68.46
Std Dev 0
pull1D
Entries 86
Mean −0.08115
Std Dev 1.135

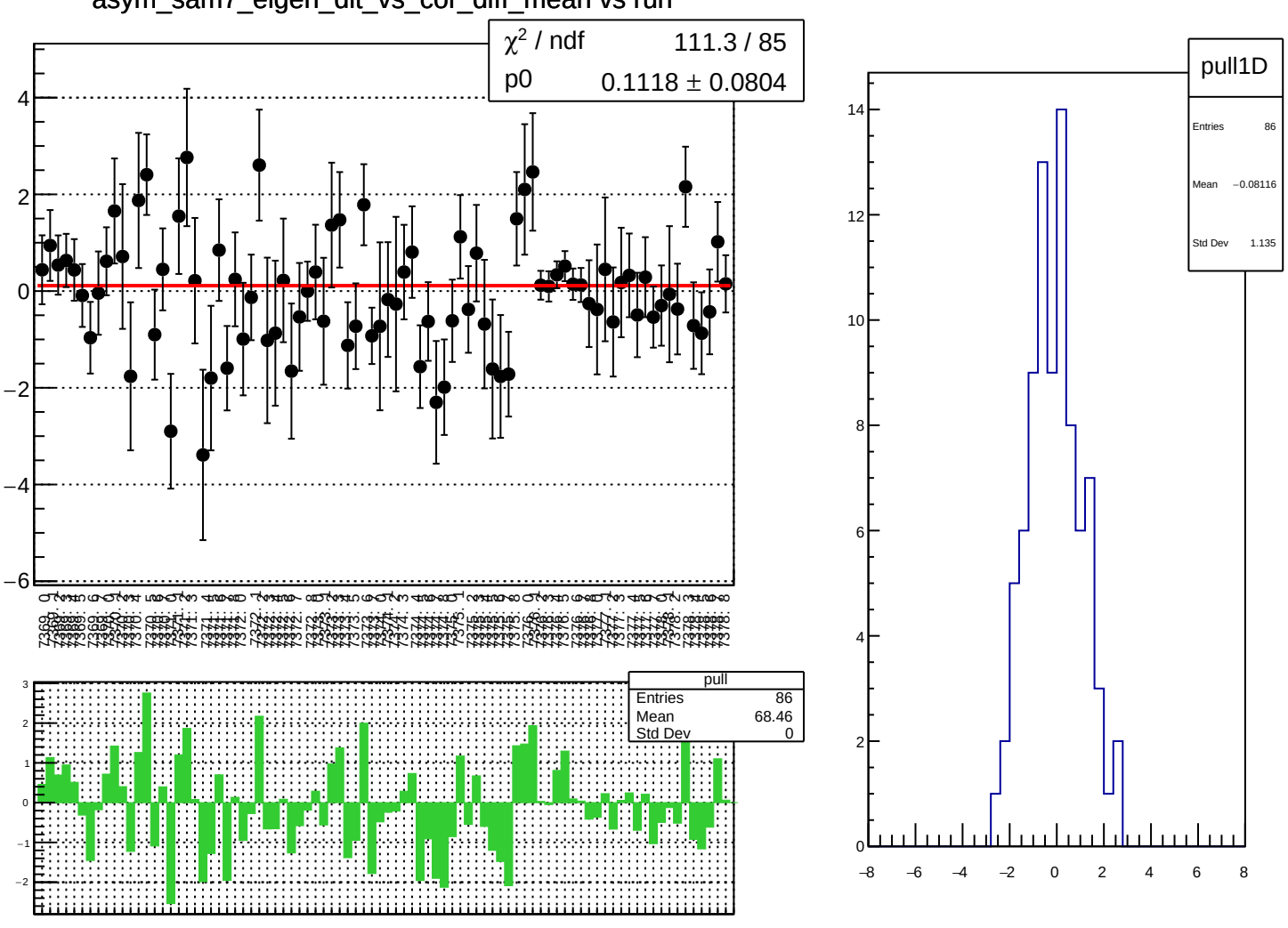

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 3.698e+05 / 85
p0 65.18 ± 0.05685
180
160
140
120
100
80
60
40
20

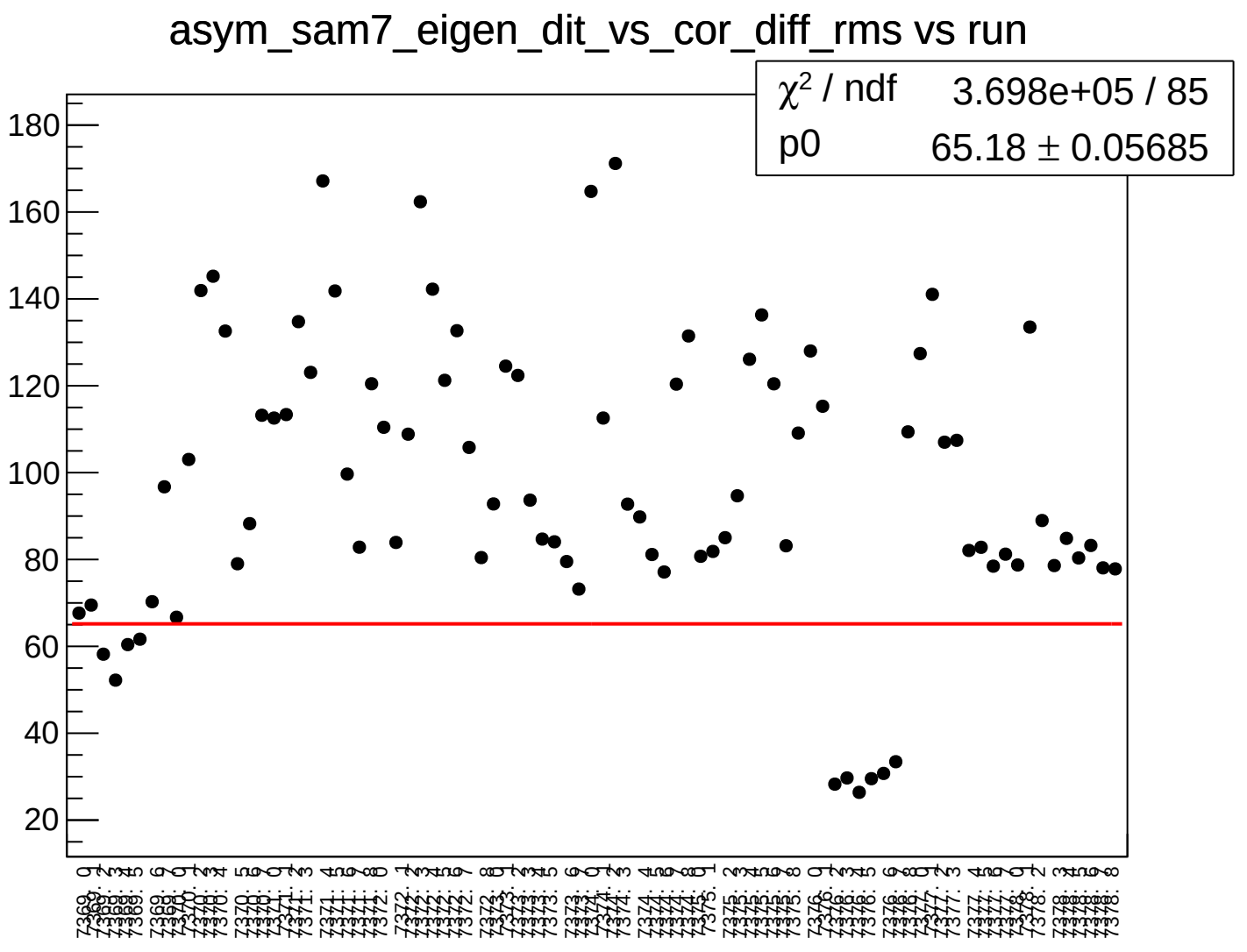

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 85
p0 0.1118 ± 0.0804
pull
Entries 86
Mean 68.46
Std Dev 0
pull1D
Entries 86
Mean −0.08115
Std Dev 1.135

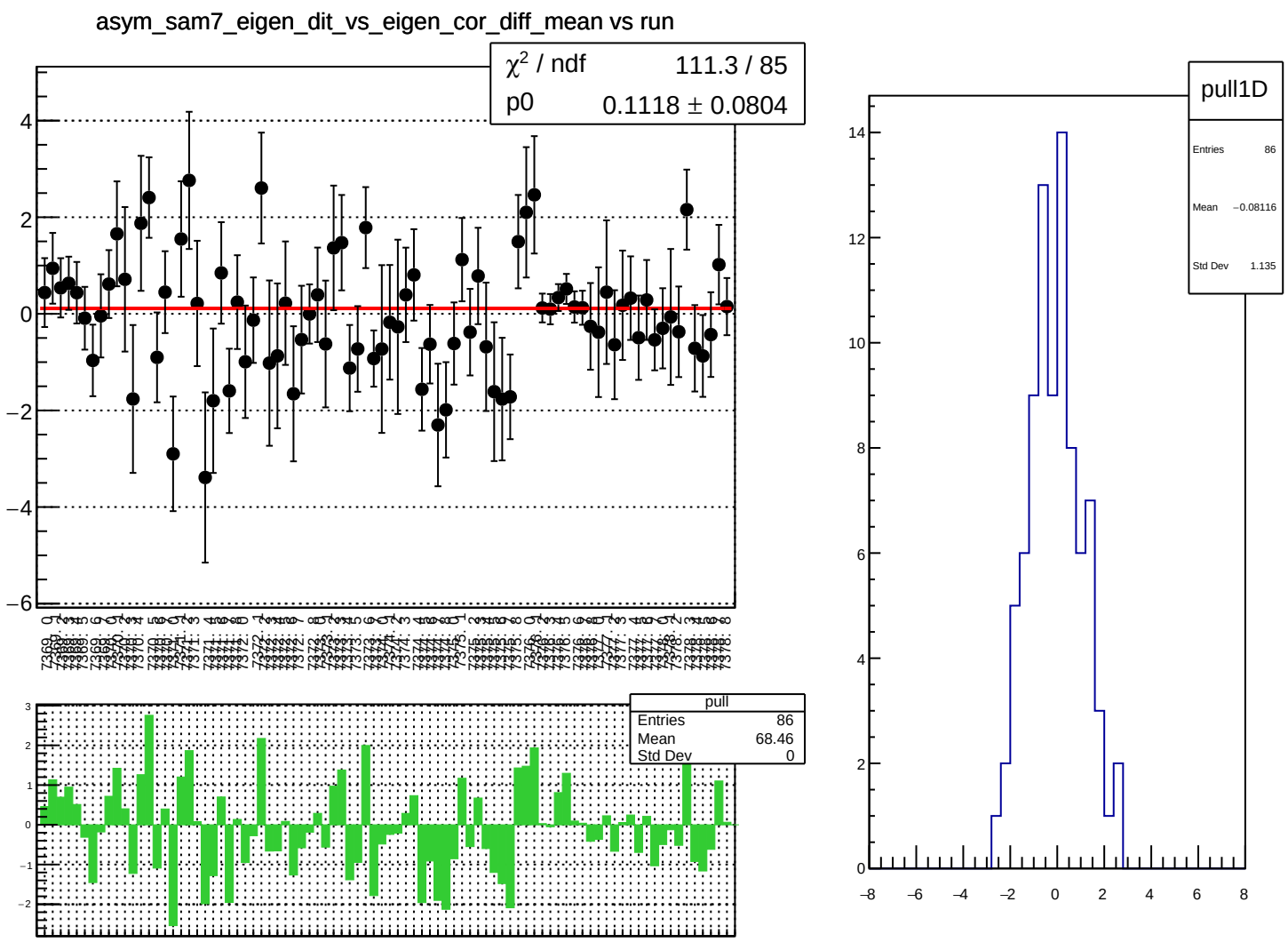

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.698e+05 / 85
p0 65.18 ± 0.05685
180
160
140
120
100
80
60
40
20

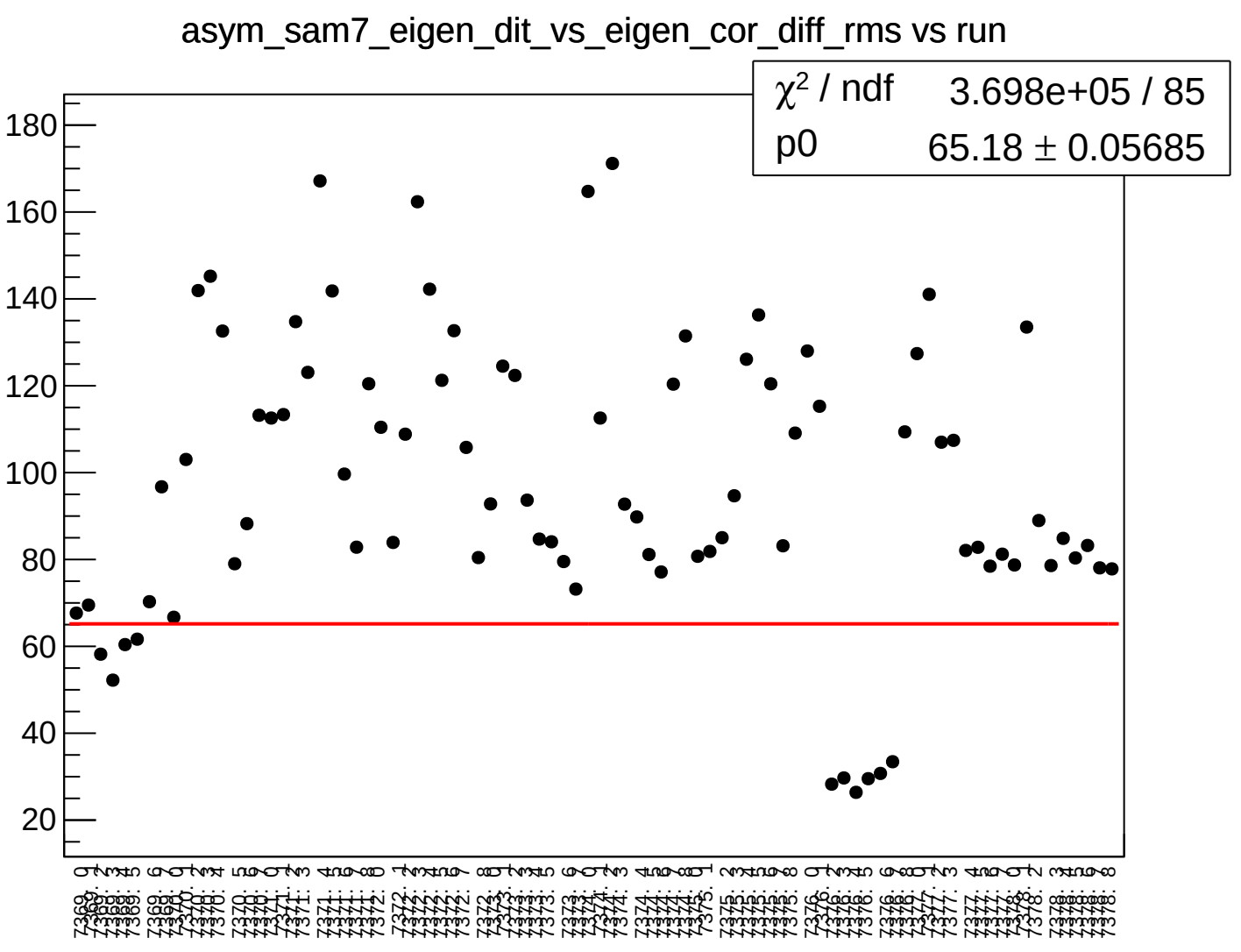

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.41 / 85
p0 2.484e−06 ± 2.508e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −185.7
Std Dev 0
pull1D
Entries 86
Mean −0.006479
Std Dev 1.037

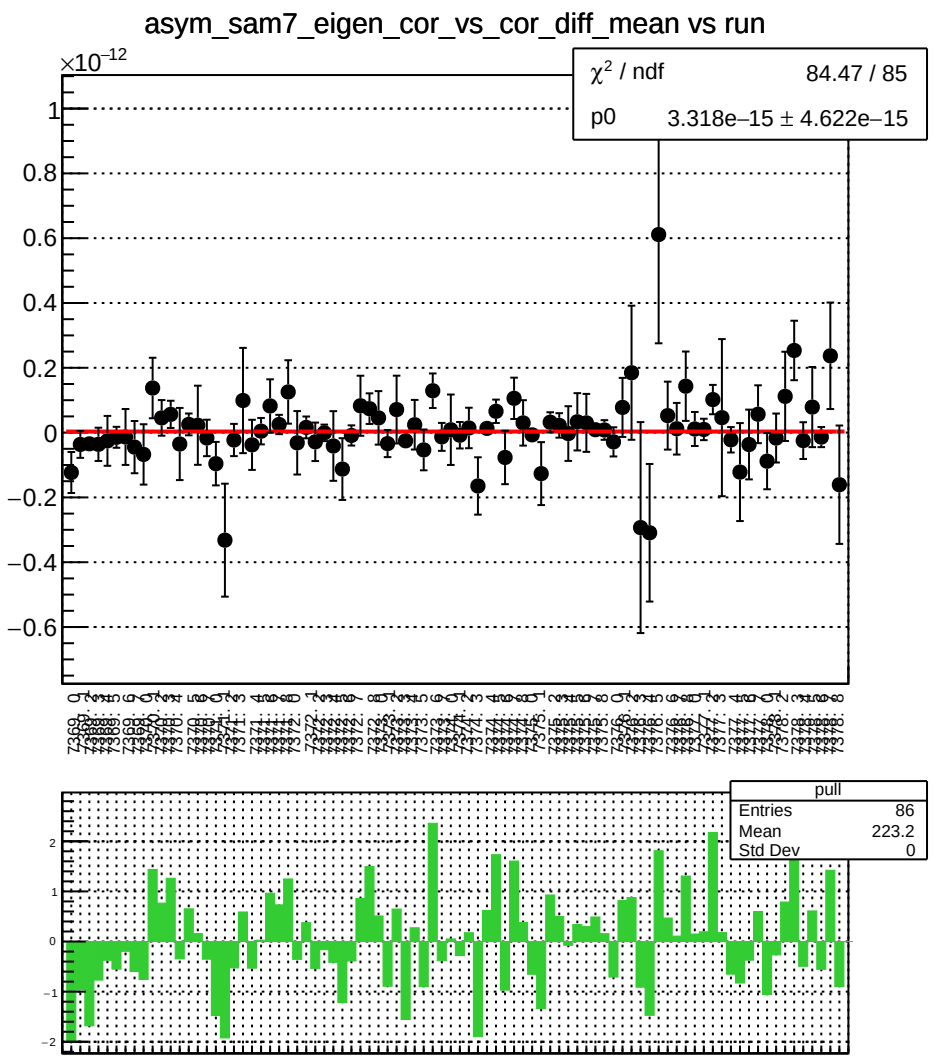

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.721e+04 / 85
p0 0.00229 ± 1.774e–06
0.0028
0.0026
0.0024
0.0022
0.002

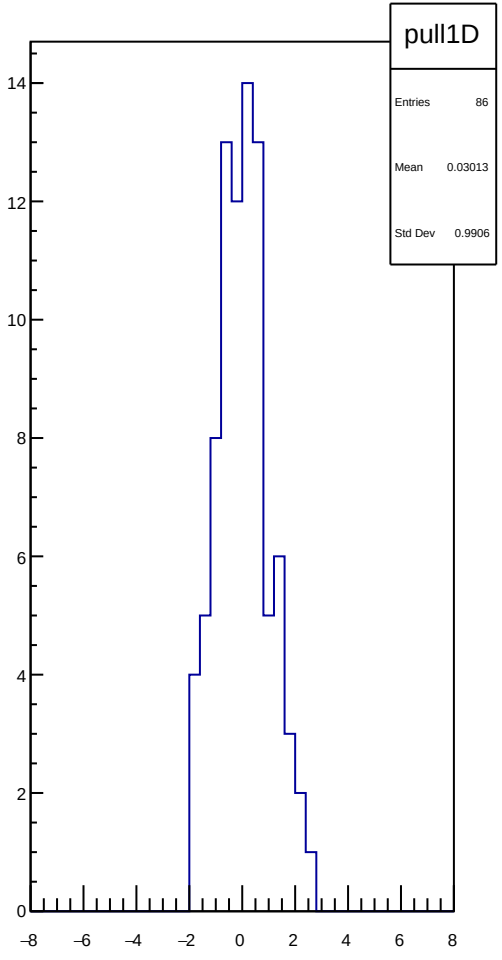

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 85
p0 0.1118 ± 0.0804
pull
Entries 86
Mean 68.46
Std Dev 0
pull1D
Entries 86
Mean −0.08116
Std Dev 1.135

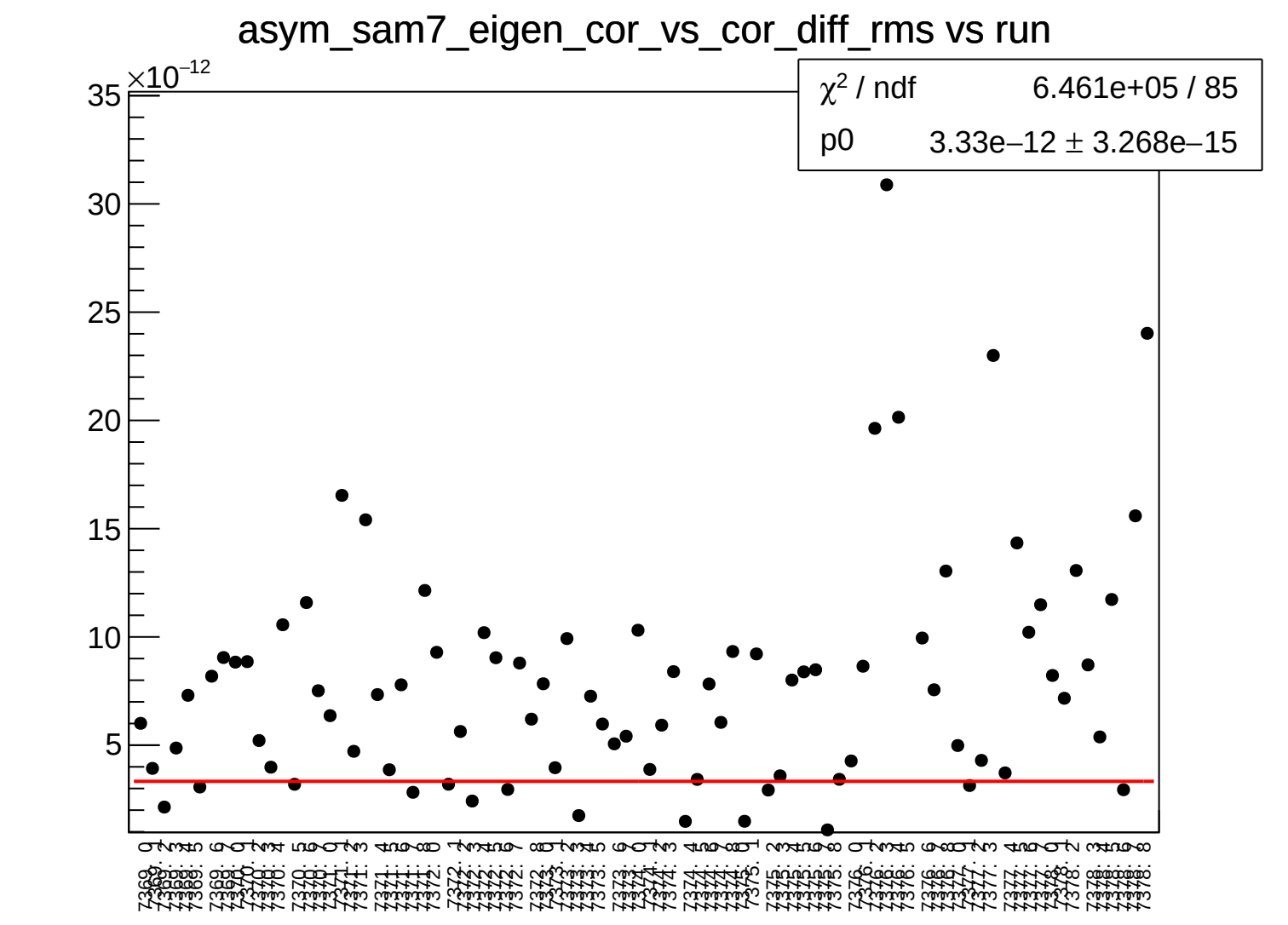

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.698e+05 / 85
p0 65.18 ± 0.05685
180
160
140
120
100
80
60
40
20

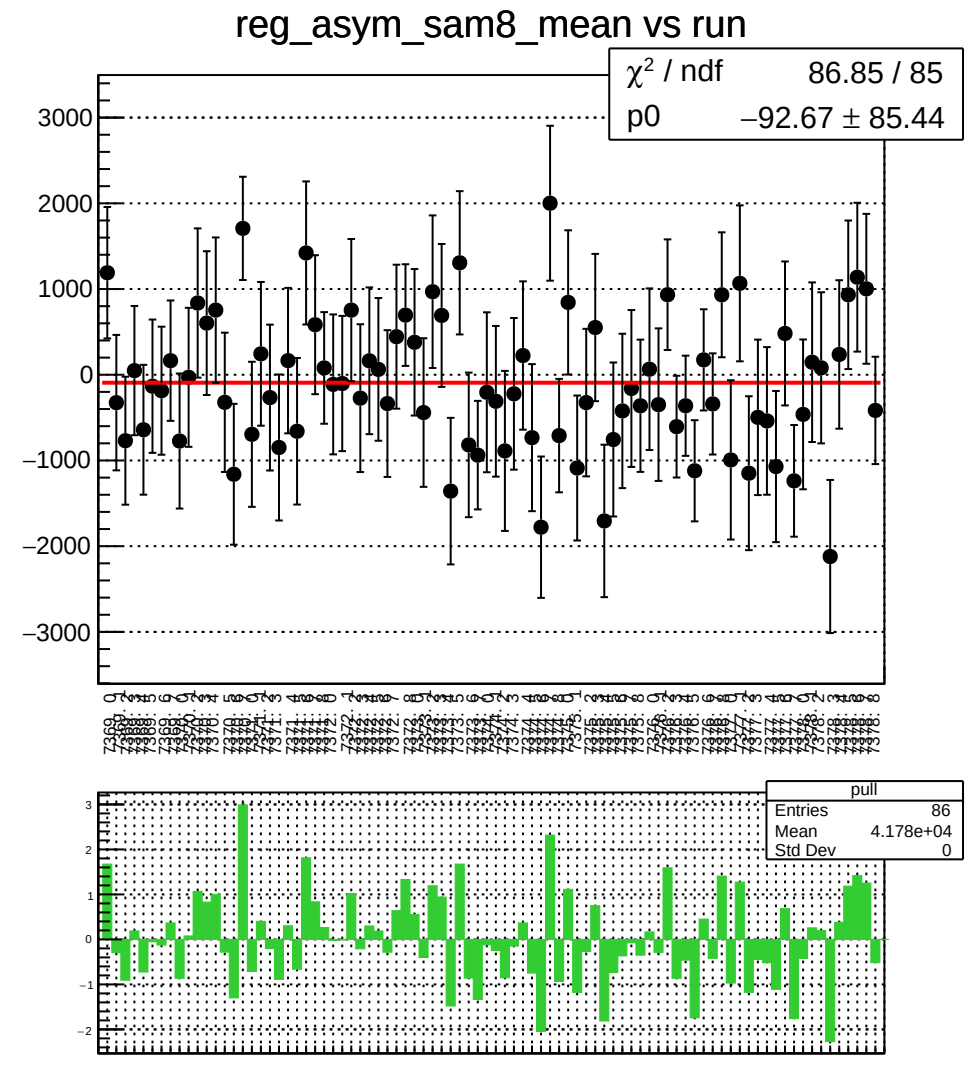

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 85
p0 0.1118 ± 0.0804
pull
Entries 86
Mean 68.46
Std Dev 0
pull1D
Entries 86
Mean −0.08116
Std Dev 1.135

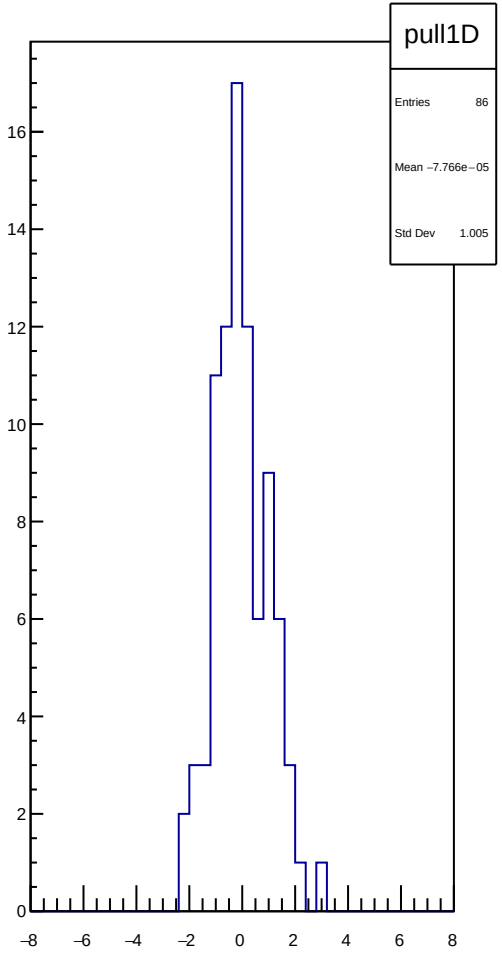

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.698e+05 / 85
p0 65.18 ± 0.05685
180
160
140
120
100
80
60
40
20

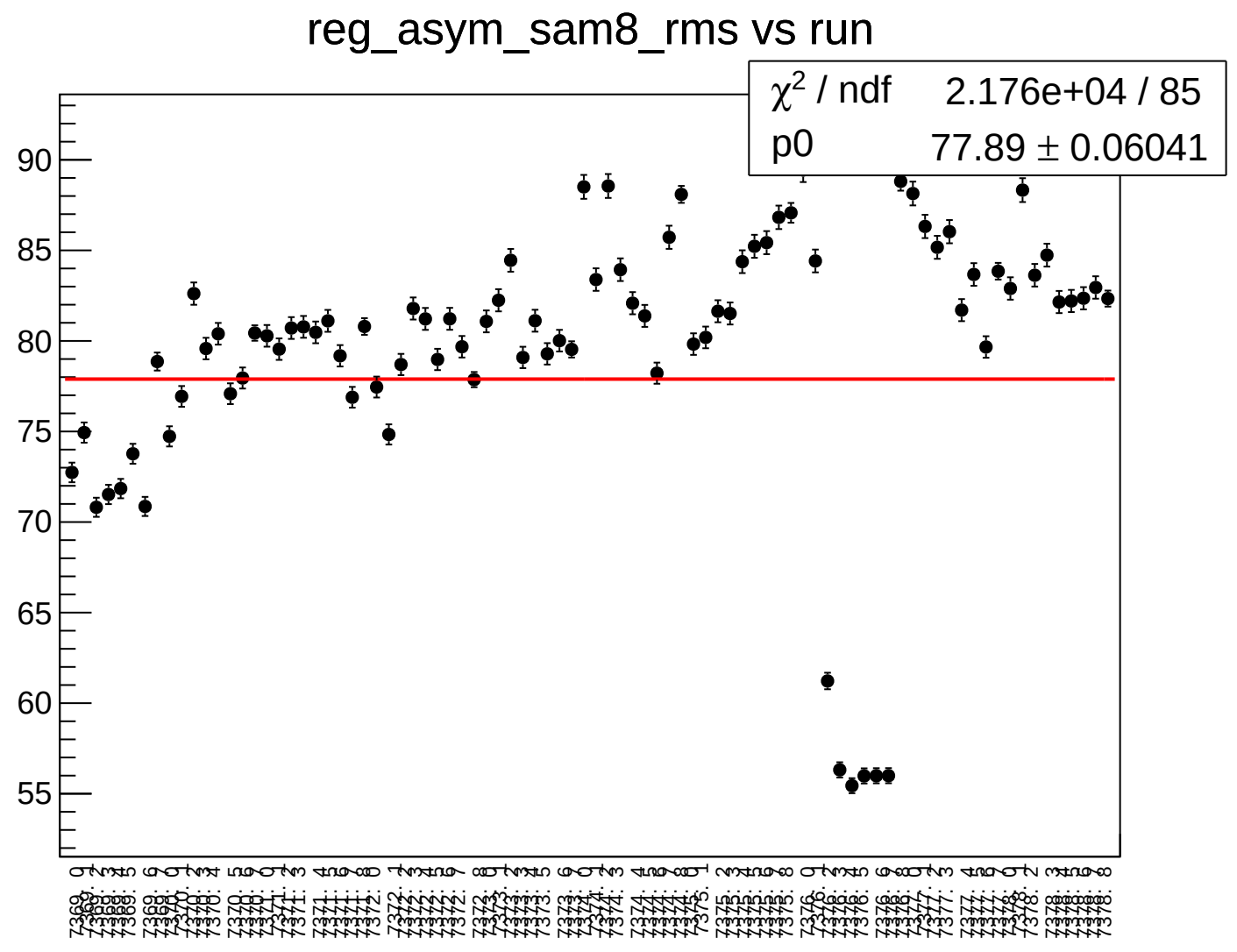

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.47 / 85
p0 3.318e−15 ± 4.622e−15
pull
Entries 86
Mean 223.2
Std Dev 0

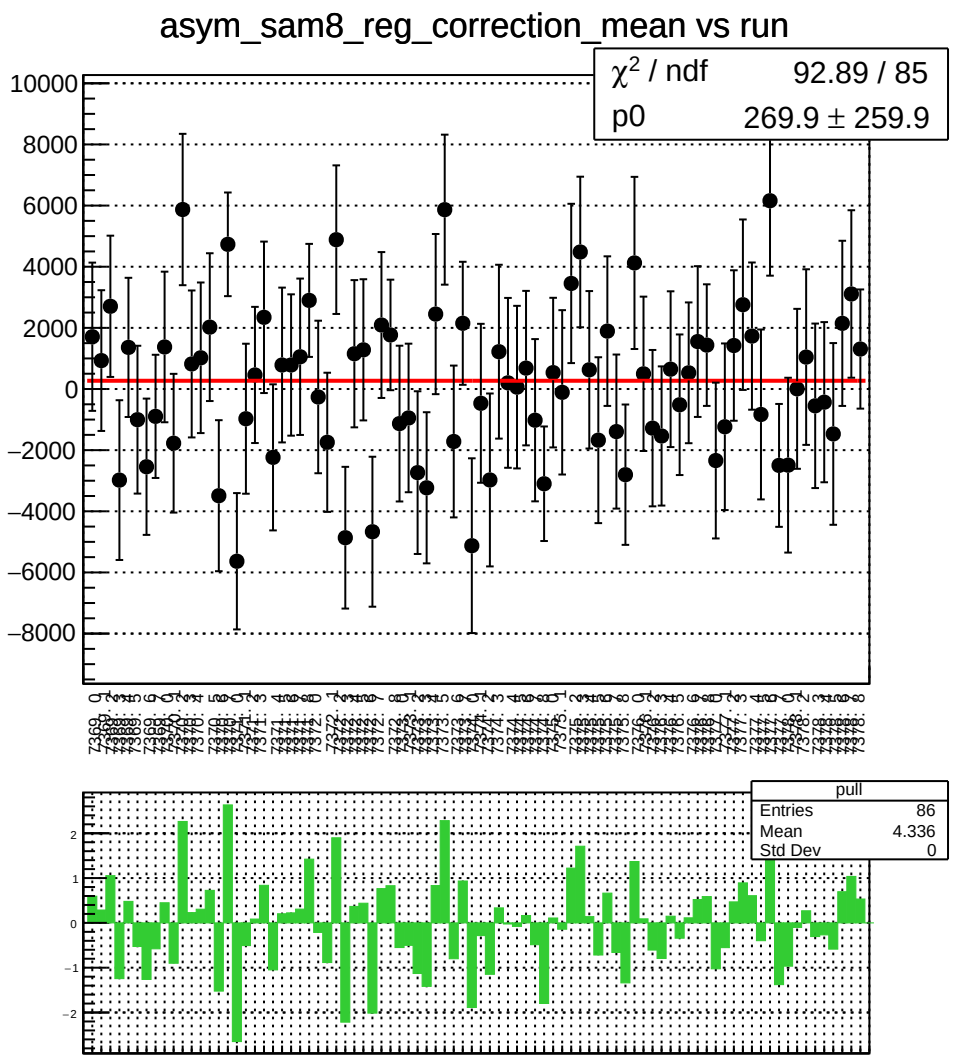

pull1D
Entries 86
Mean 0.03013
Std Dev 0.9906

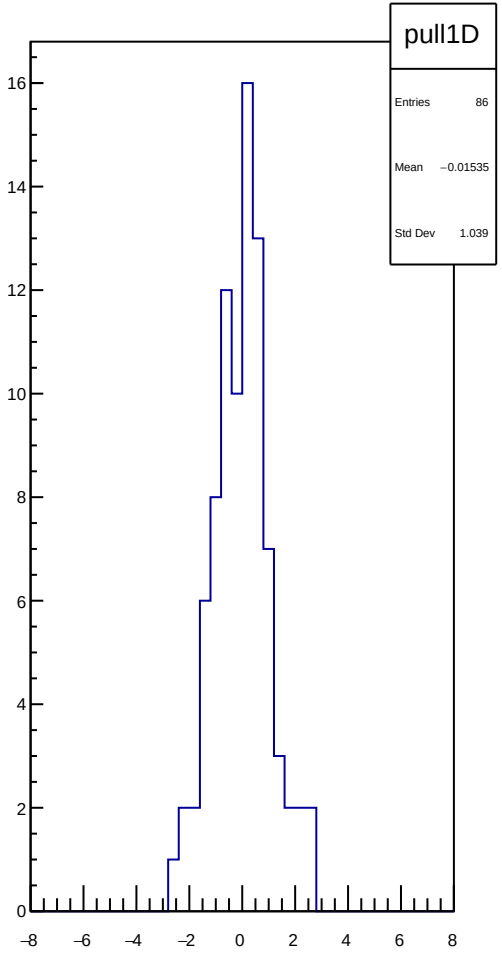

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.461e+05 / 85
p0 3.33e−12 ± 3.268e−15
35
30
25
20
15
10
5

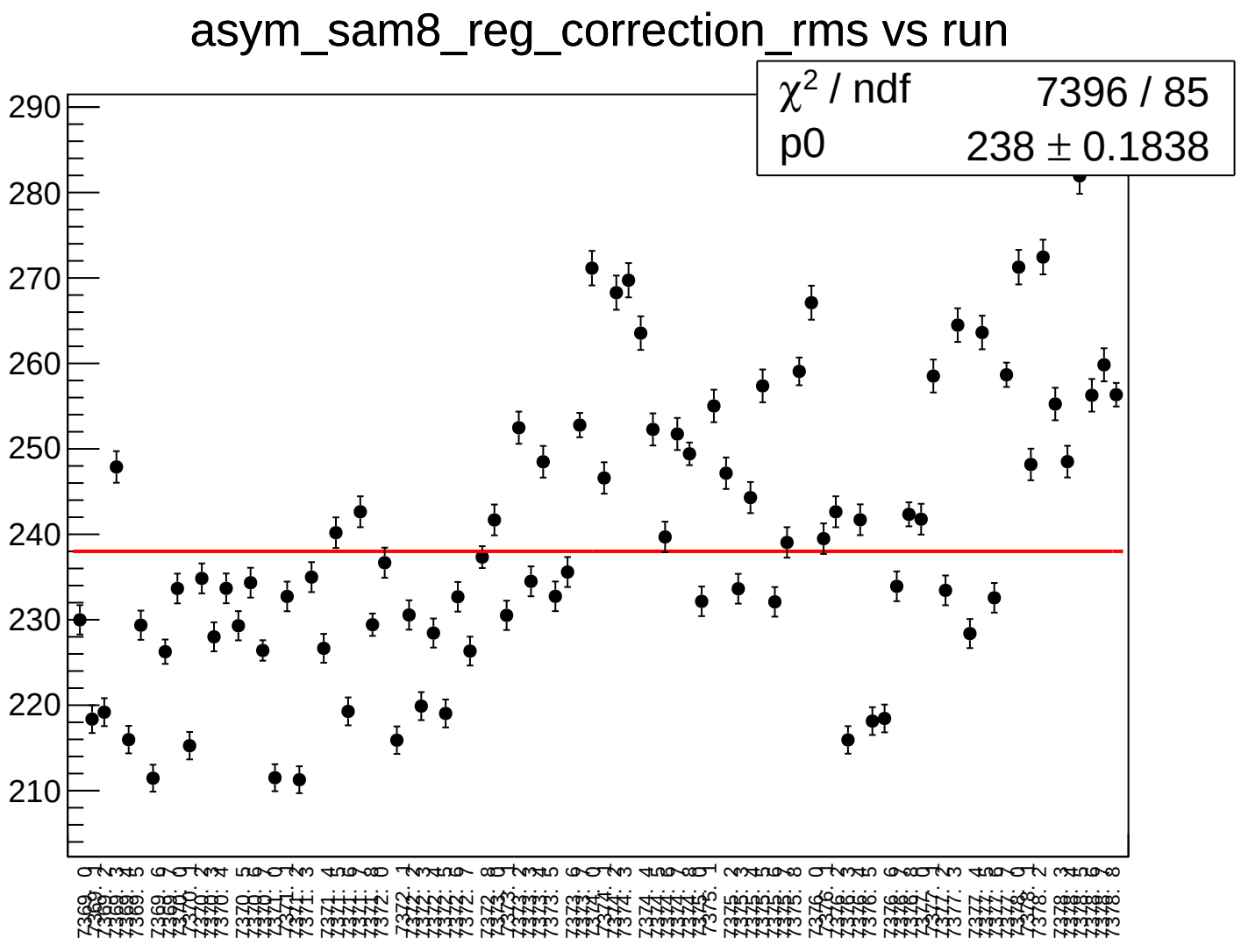

reg_asym_sam8_mean vs run
χ² / ndf 86.85 / 85
p0 −92.67 ± 85.44
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 4.178e+04
Std Dev 0
3
2
1
0
−1
−2

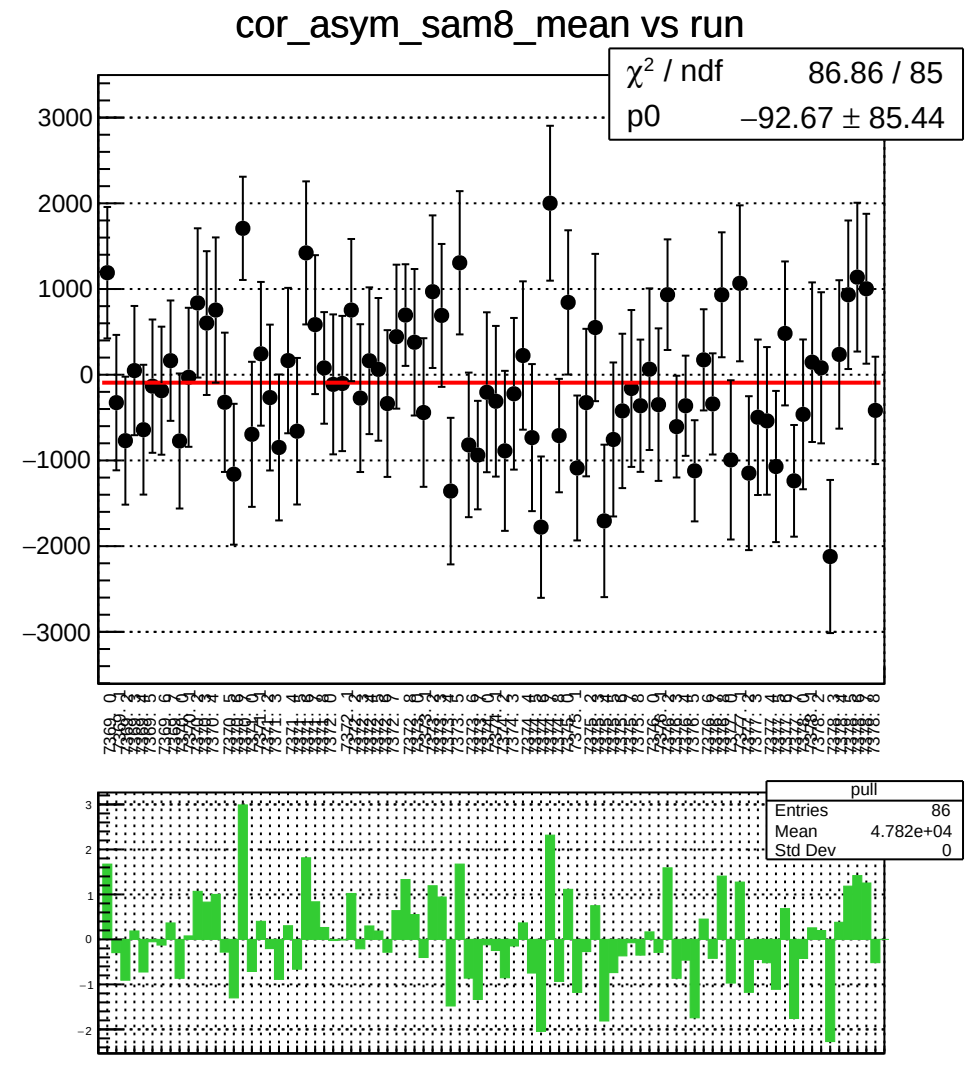

pull1D
Entries 86
Mean −7.766e−05
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

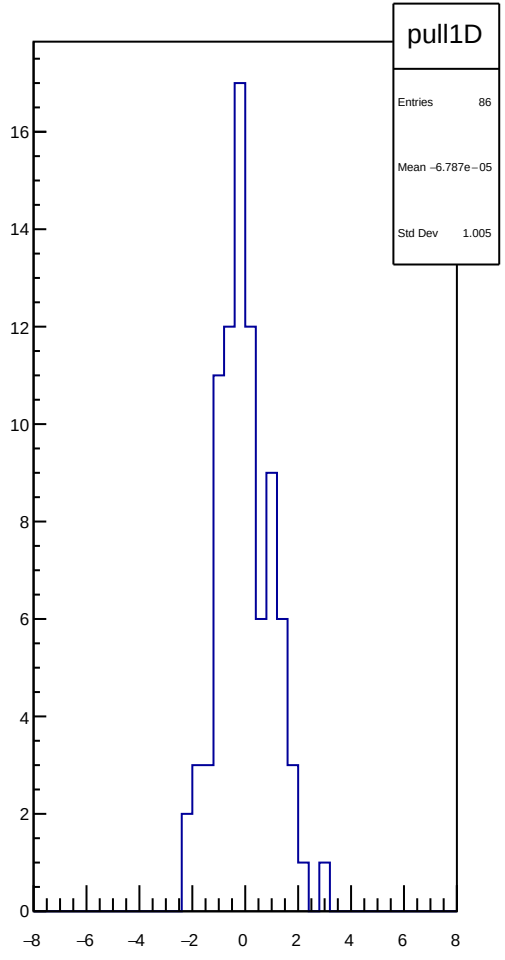

reg_asym_sam8_rms vs run
χ^2 / ndf 2.176e+04 / 85
p0 77.89 ± 0.06041
90
85
80
75
70
65
60
55

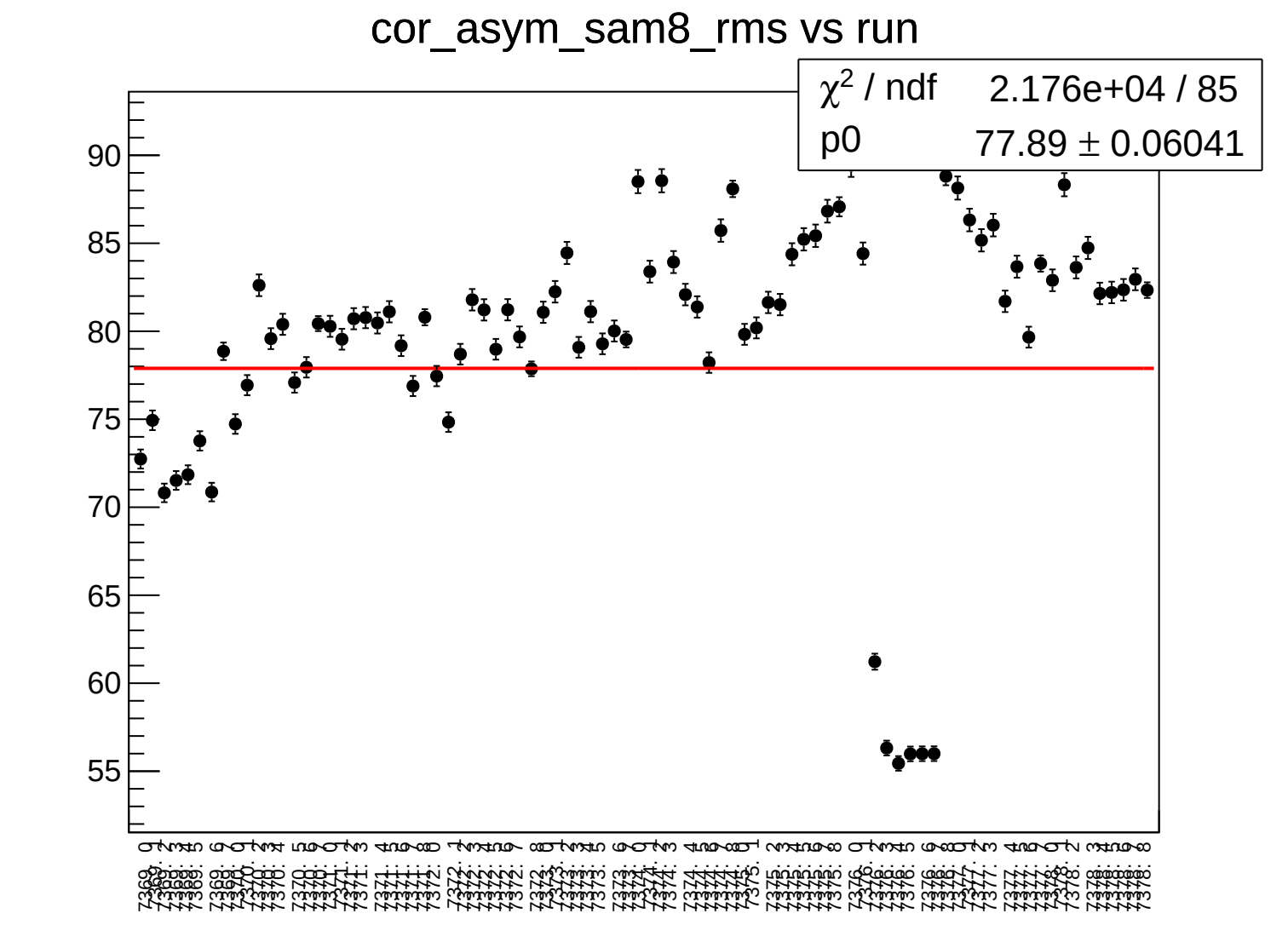

asym_sam8_reg_correction_mean vs run
χ² / ndf 92.89 / 85
p0 269.9 ± 259.9
pull
Entries 86
Mean 4.336
Std Dev 0

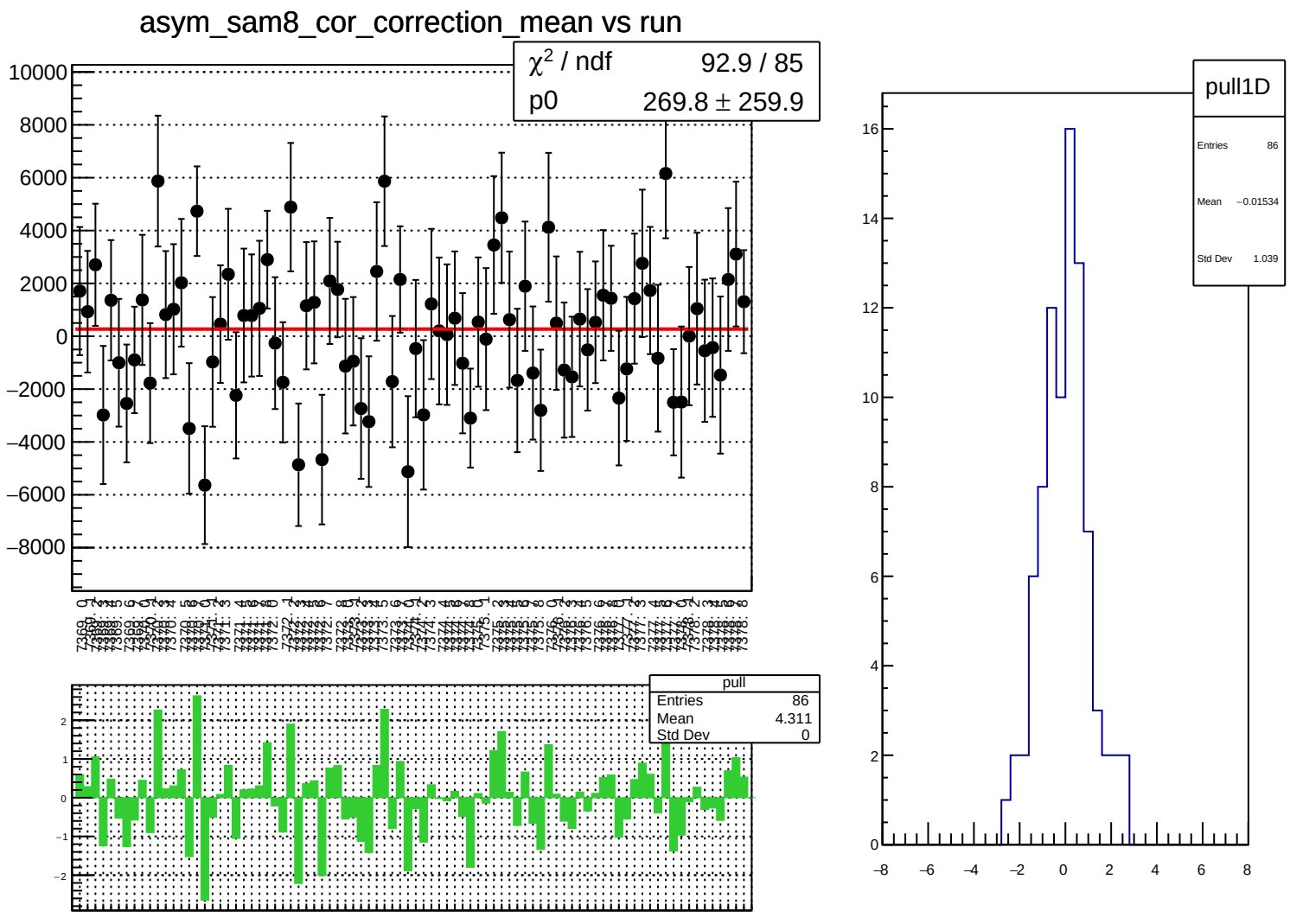

pull1D
Entries 86
Mean −0.01535
Std Dev 1.039

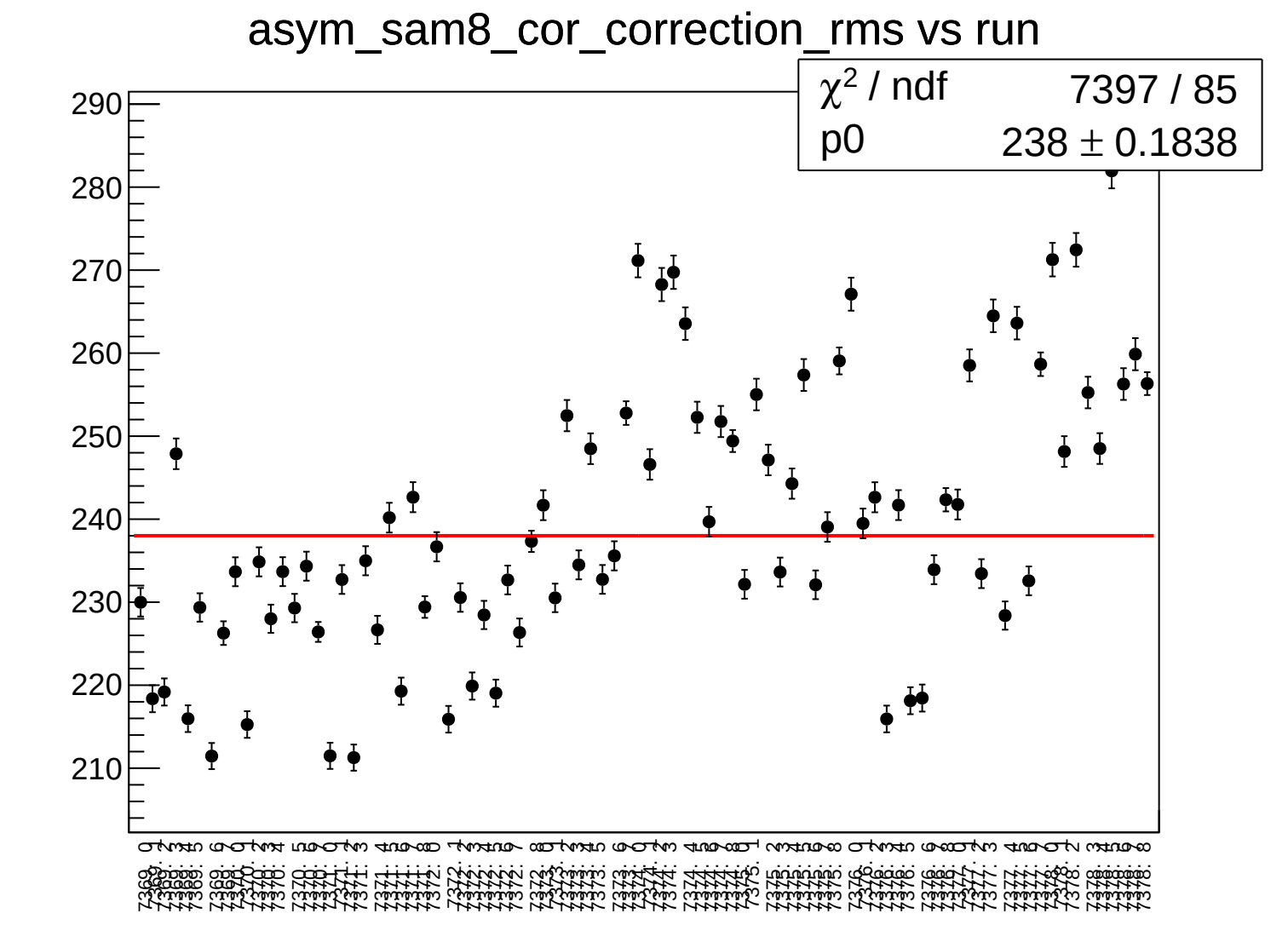

asym_sam8_reg_correction_rms vs run
χ² / ndf 7396 / 85
p0 238 ± 0.1838
290
280
270
260
250
240
230
220
210

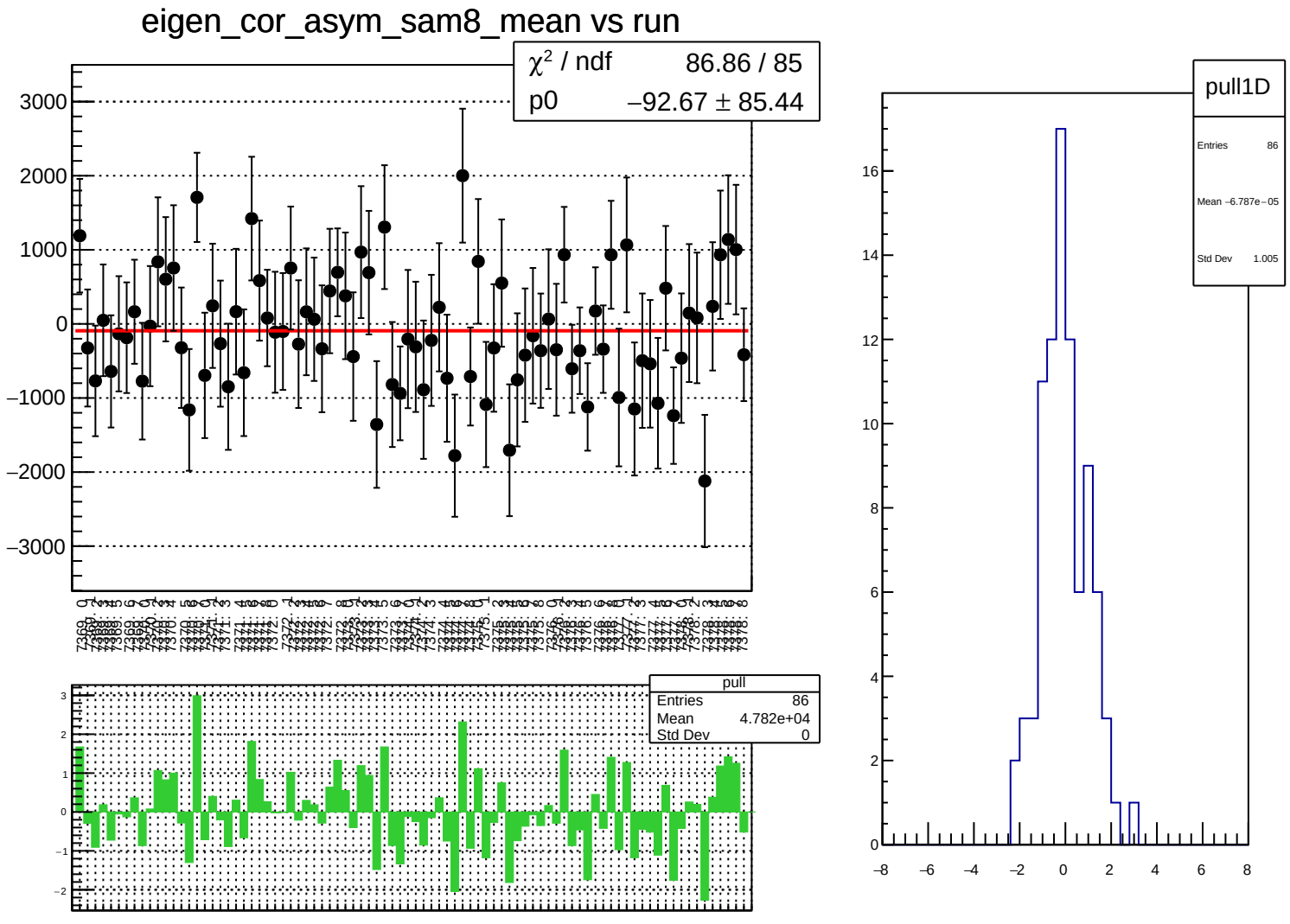

cor_asym_sam8_mean vs run
χ² / ndf 86.86 / 85
p0 −92.67 ± 85.44
pull
Entries 86
Mean 4.782e+04
Std Dev 0

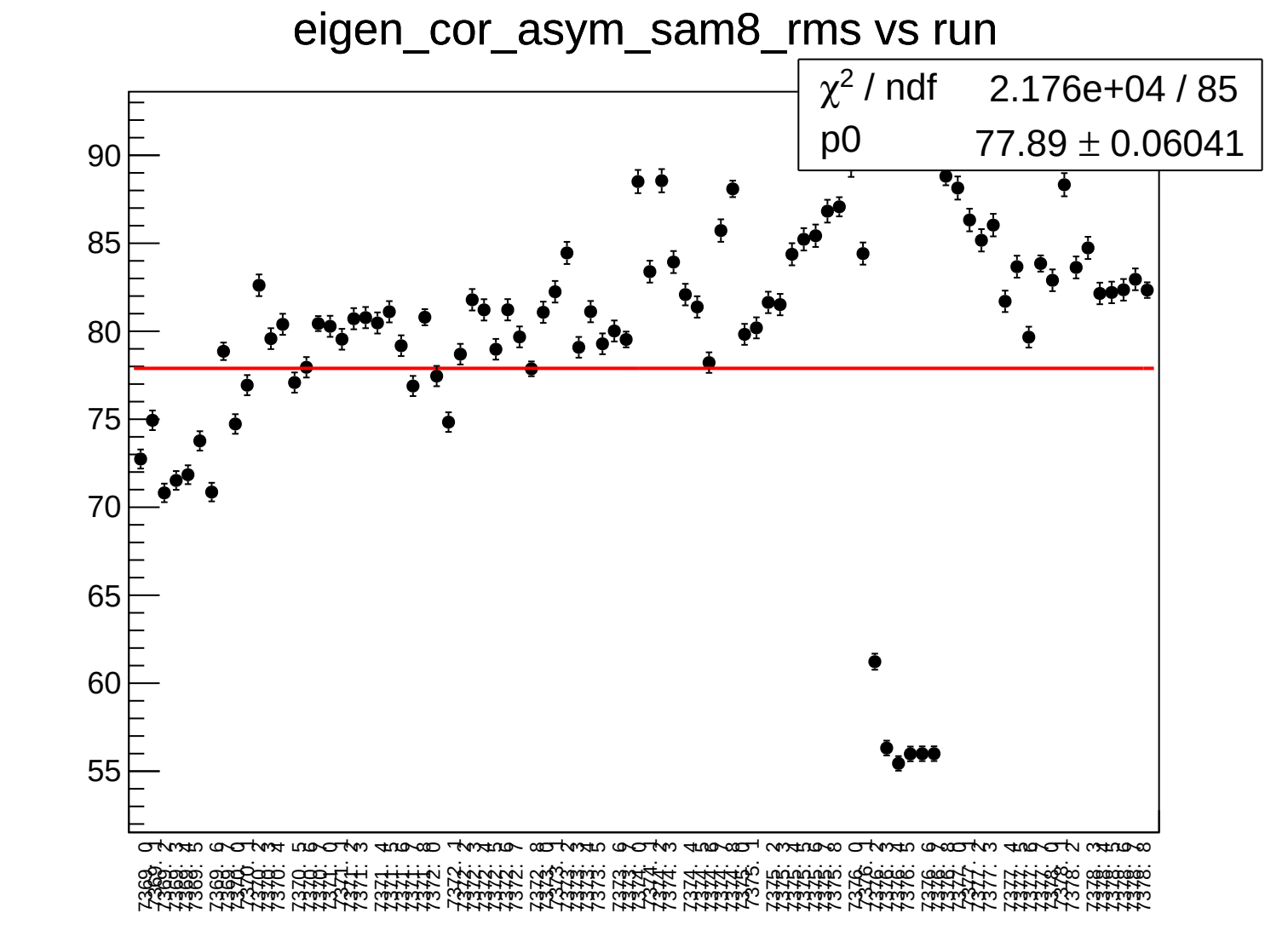

pull1D
Entries 86
Mean −6.787e−05
Std Dev 1.005

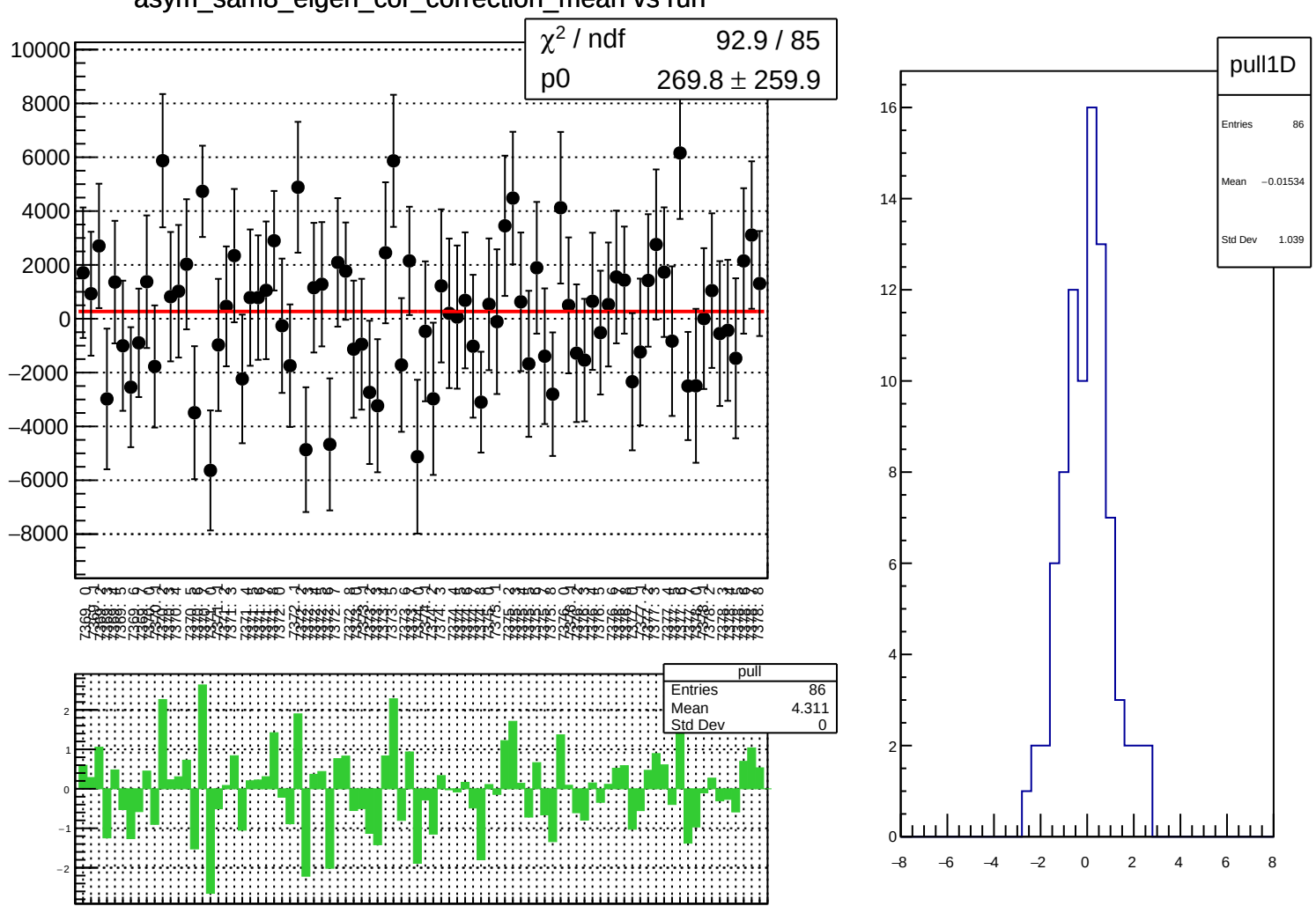

cor_asym_sam8_rms vs run
χ^2 / ndf 2.176e+04 / 85
p0 77.89 ± 0.06041
90
85
80
75
70
65
60
55

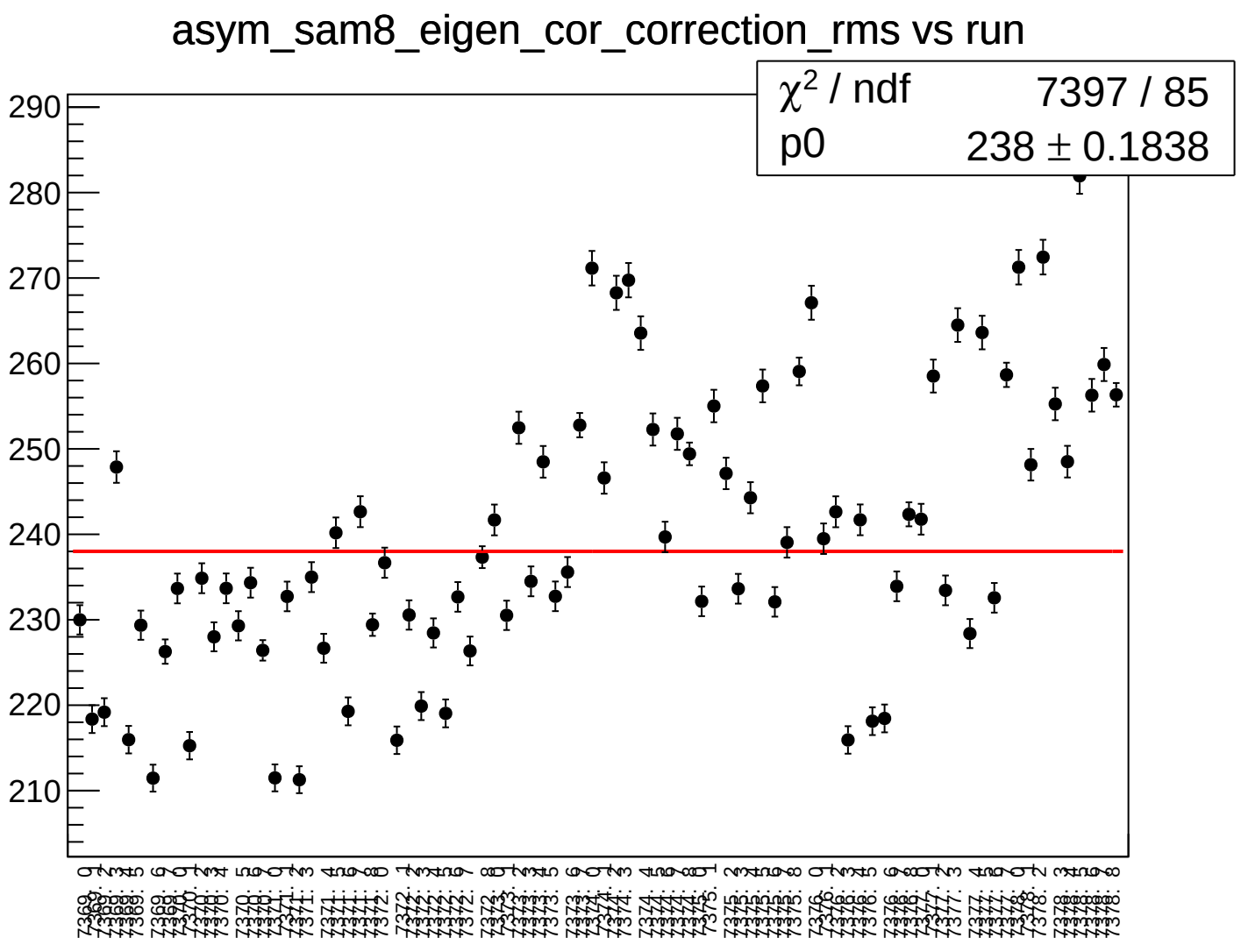

asym_sam8_cor_correction_mean vs run
χ² / ndf 92.9 / 85
p0 269.8 ± 259.9
pull
Entries 86
Mean 4.311
Std Dev 0
pull1D
Entries 86
Mean −0.01534
Std Dev 1.039

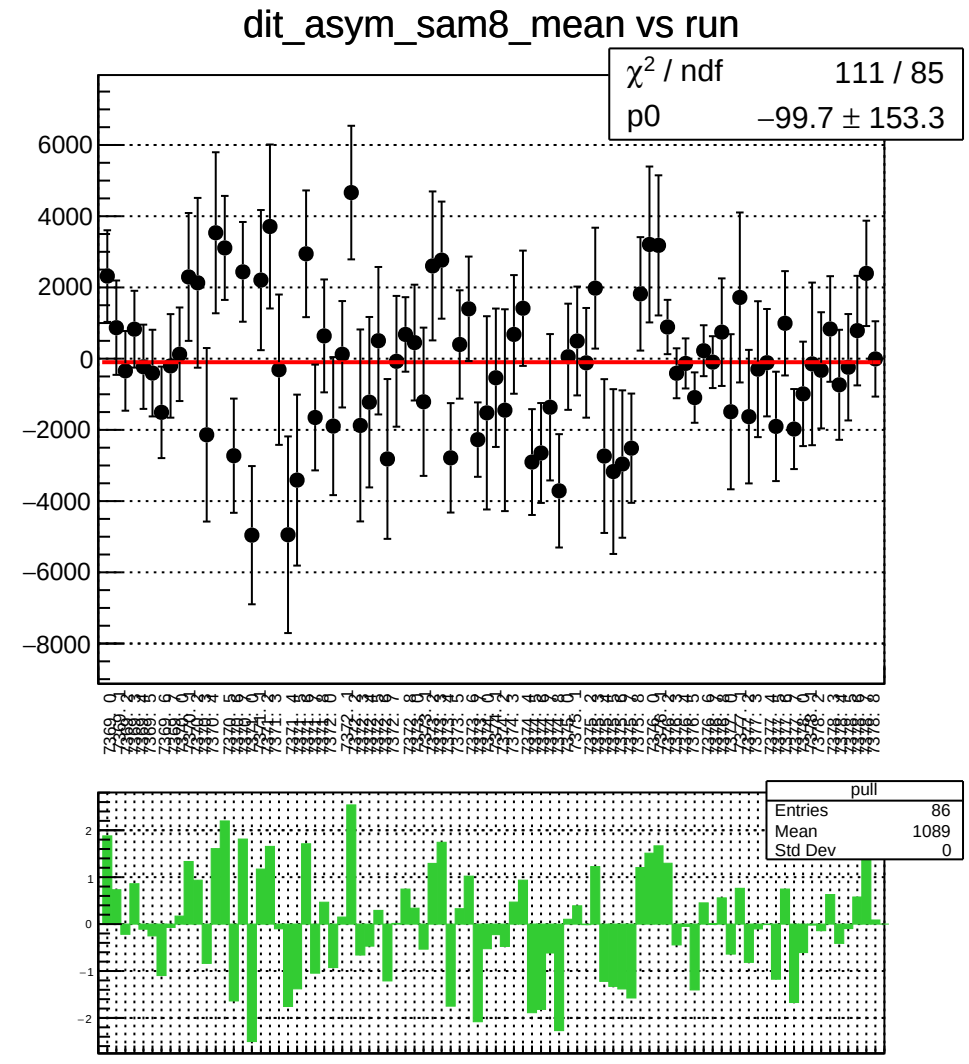

asym_sam8_cor_correction_rms vs run
χ² / ndf 7397 / 85
p0 238 ± 0.1838
290
280
270
260
250
240
230
220
210

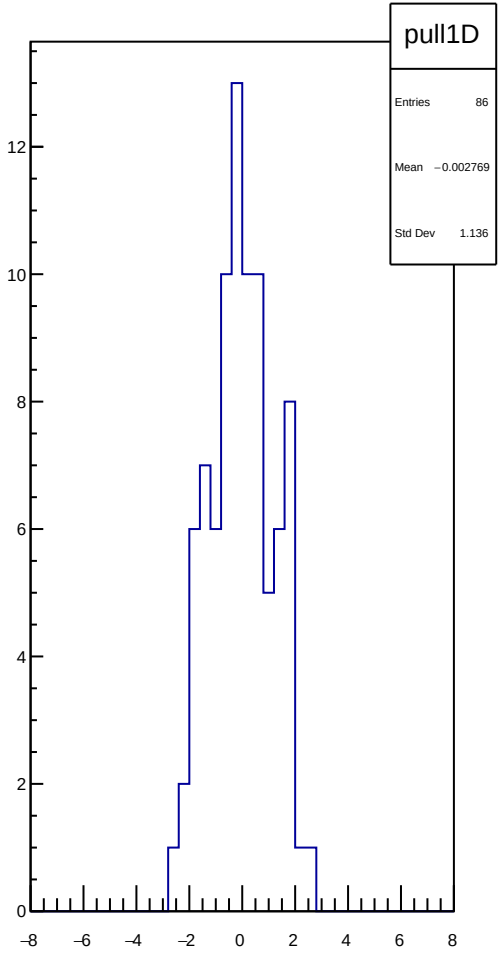

eigen_cor_asym_sam8_mean vs run
χ² / ndf 86.86 / 85
p0 −92.67 ± 85.44
pull
Entries 86
Mean 4.782e+04
Std Dev 0
pull1D
Entries 86
Mean −6.787e−05
Std Dev 1.005

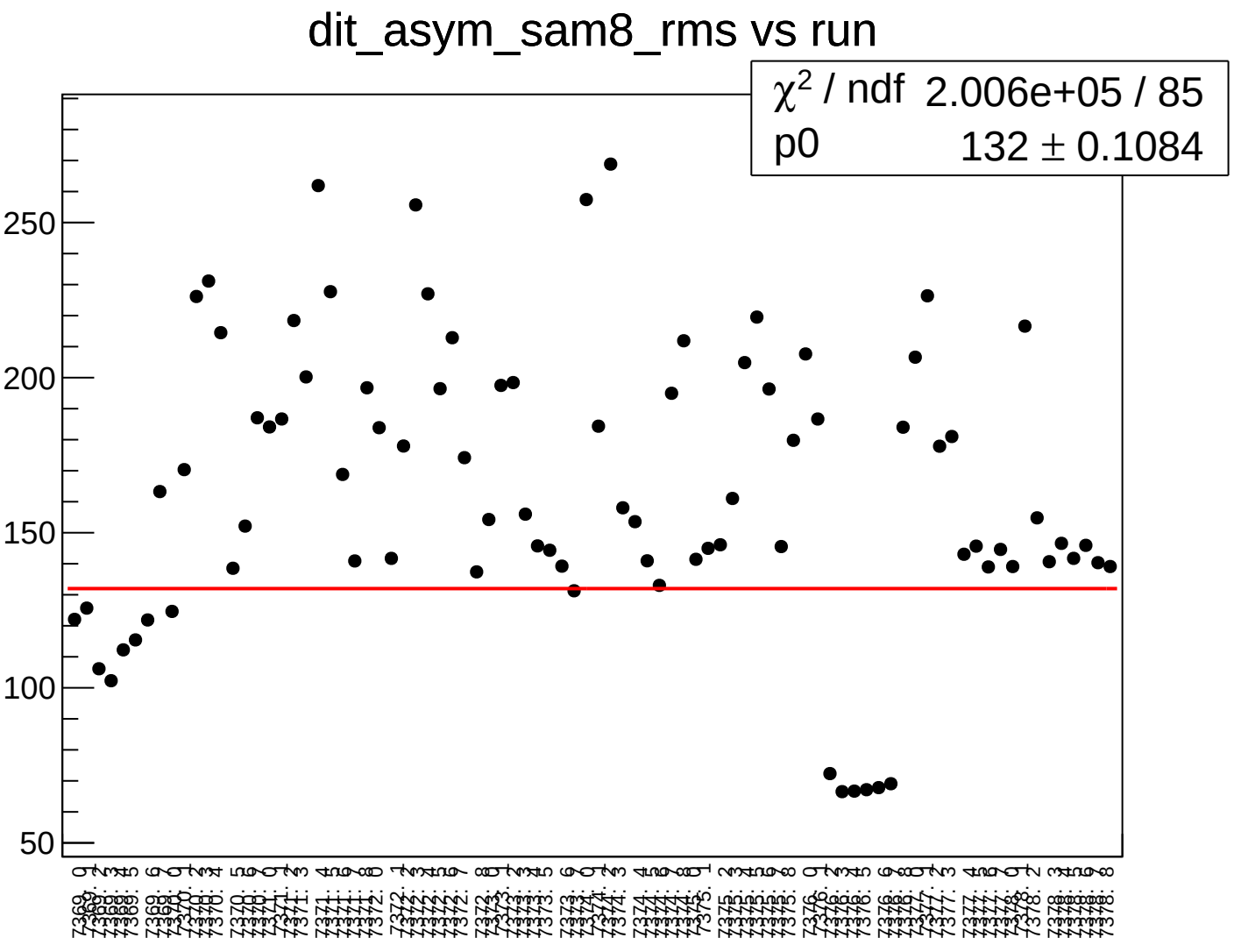

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 2.176e+04 / 85
p0 77.89 ± 0.06041
90
85
80
75
70
65
60
55

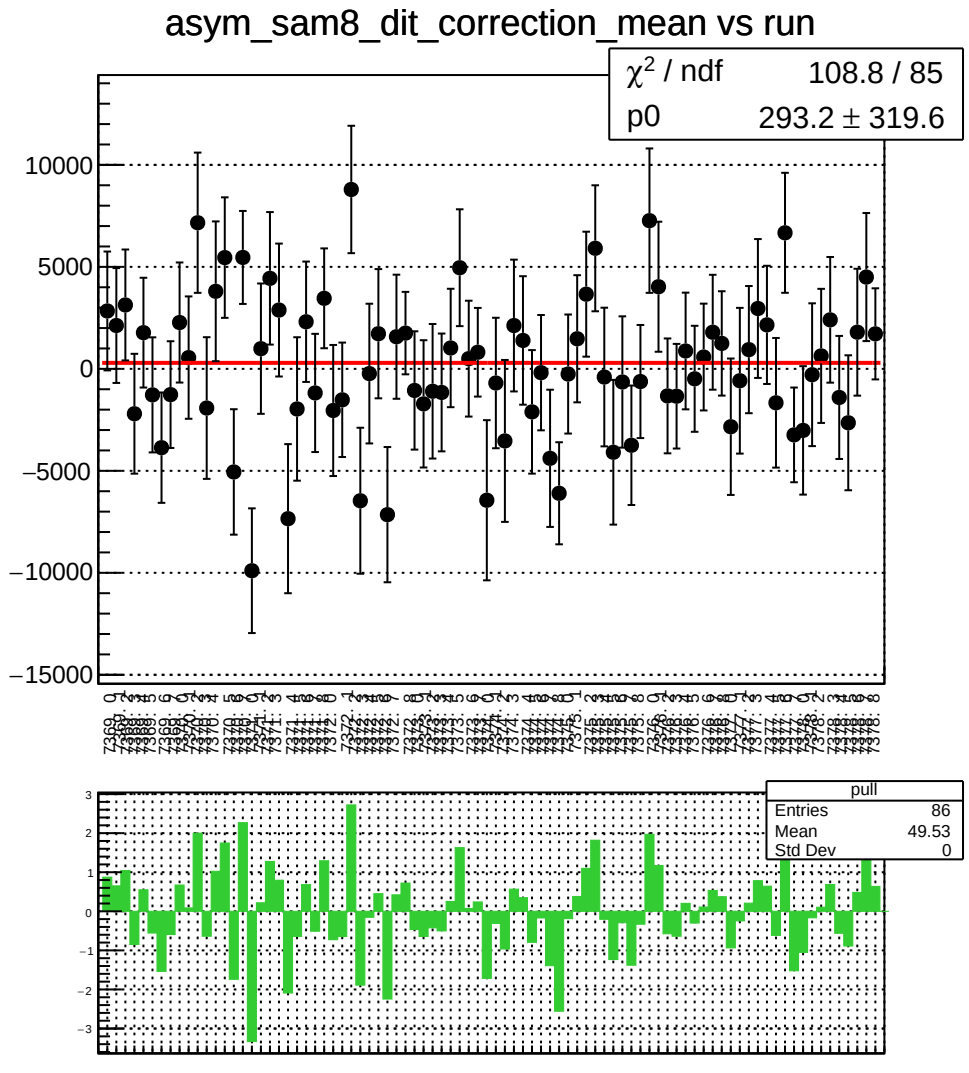

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 92.9 / 85
p0 269.8 ± 259.9
pull
Entries 86
Mean 4.311
Std Dev 0
pull1D
Entries 86
Mean −0.01534
Std Dev 1.039

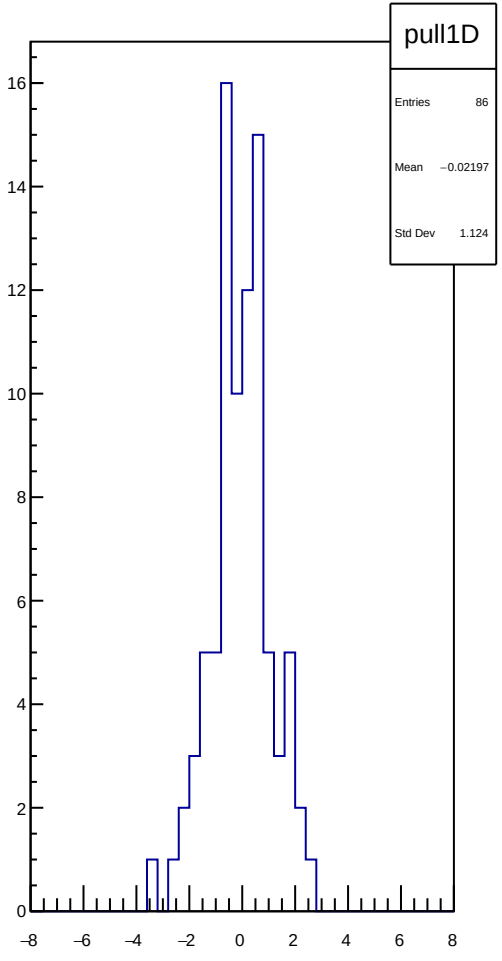

asym_sam8_eigen_cor_correction_rms vs run
χ^2 / ndf 7397 / 85
p0 238 ± 0.1838
290
280
270
260
250
240
230
220
210

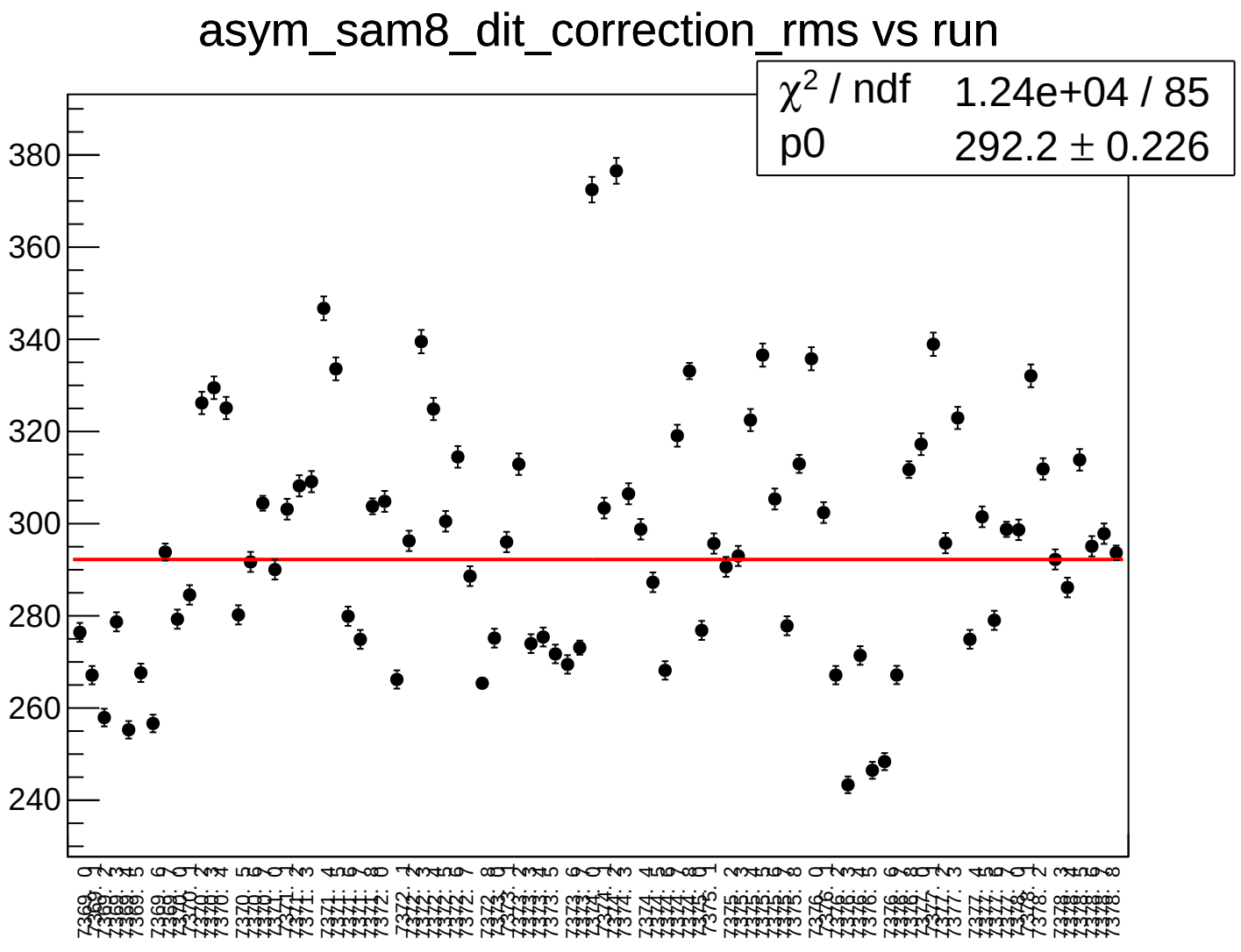

dit_asym_sam8_mean vs run
χ² / ndf 111 / 85
p0 −99.7 ± 153.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean 1089
Std Dev 0
2
1
0
−1
−2

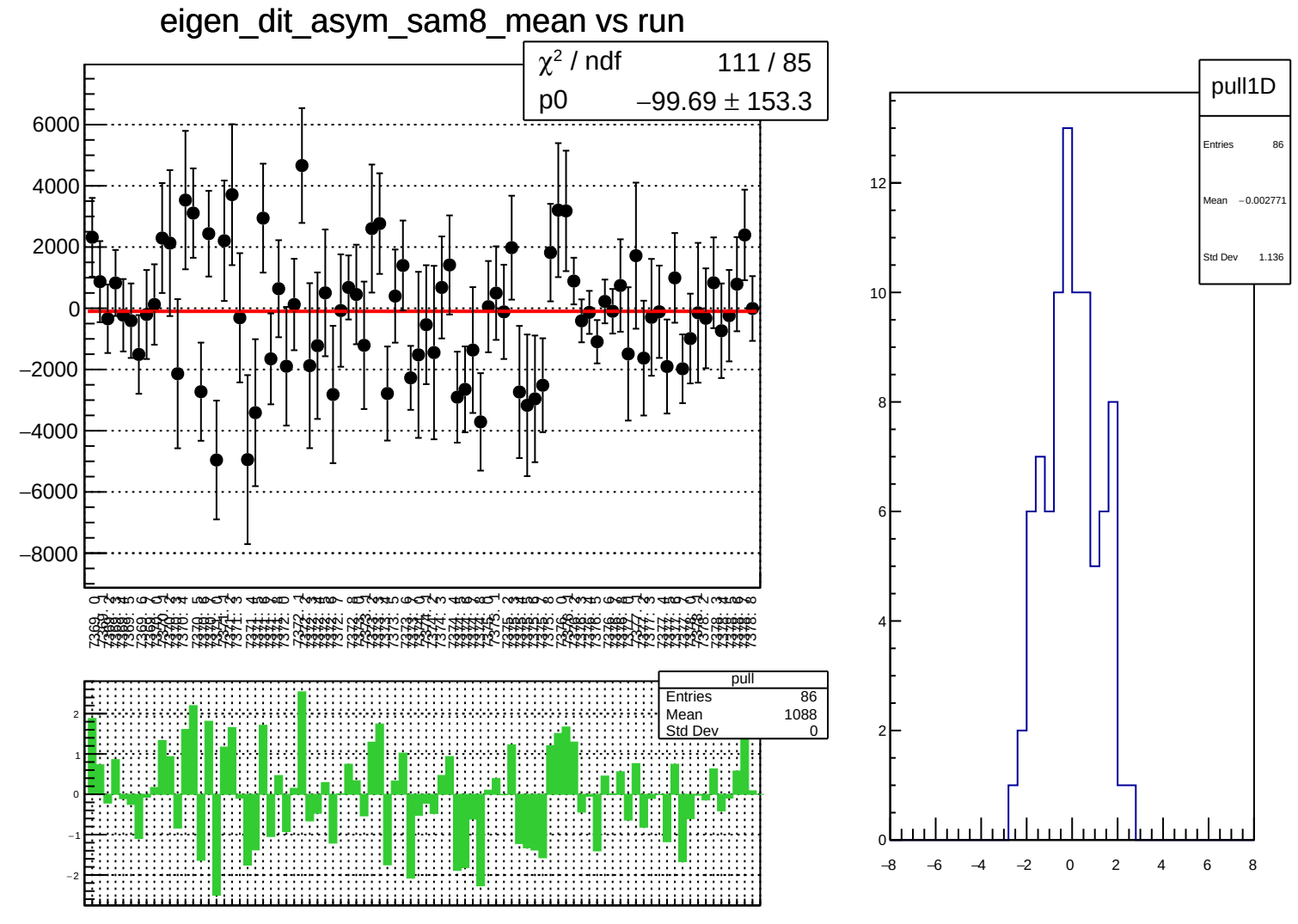

pull1D
Entries 86
Mean −0.002769
Std Dev 1.136
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

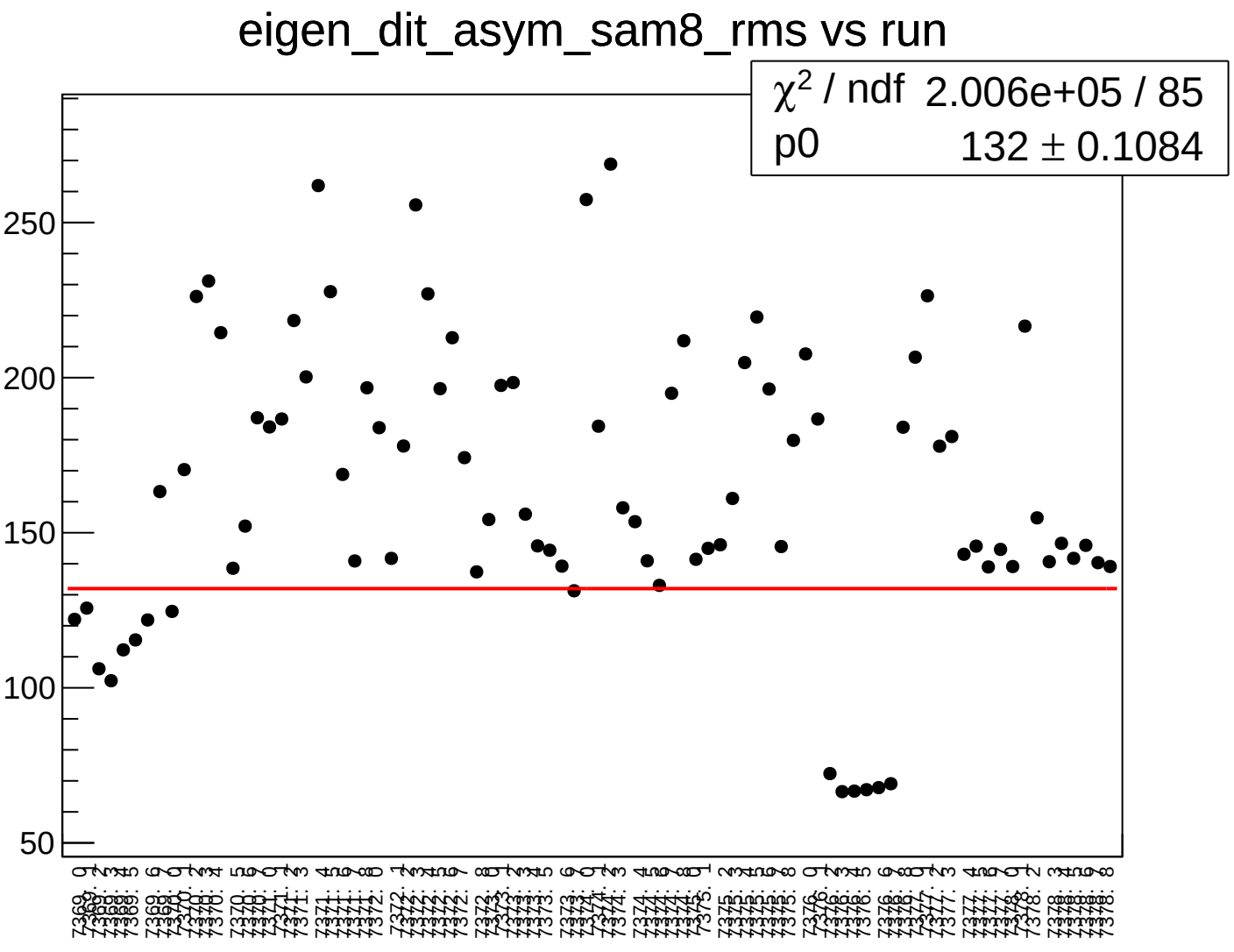

dit_asym_sam8_rms vs run
χ^2 / ndf 2.006e+05 / 85
p0 132 ± 0.1084
250
200
150
100
50

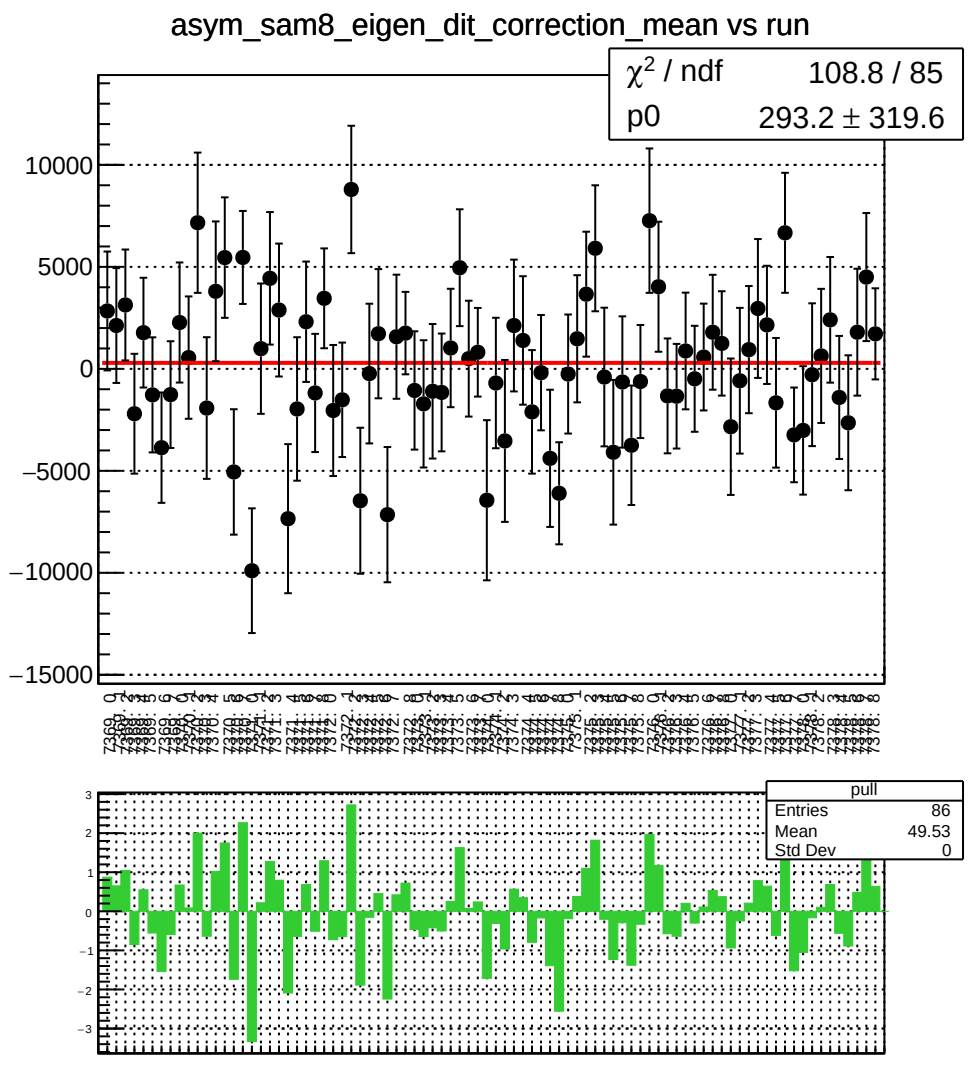

asym_sam8_dit_correction_mean vs run
χ² / ndf 108.8 / 85
p0 293.2 ± 319.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 49.53
Std Dev 0
3
2
1
0
−1
−2
−3

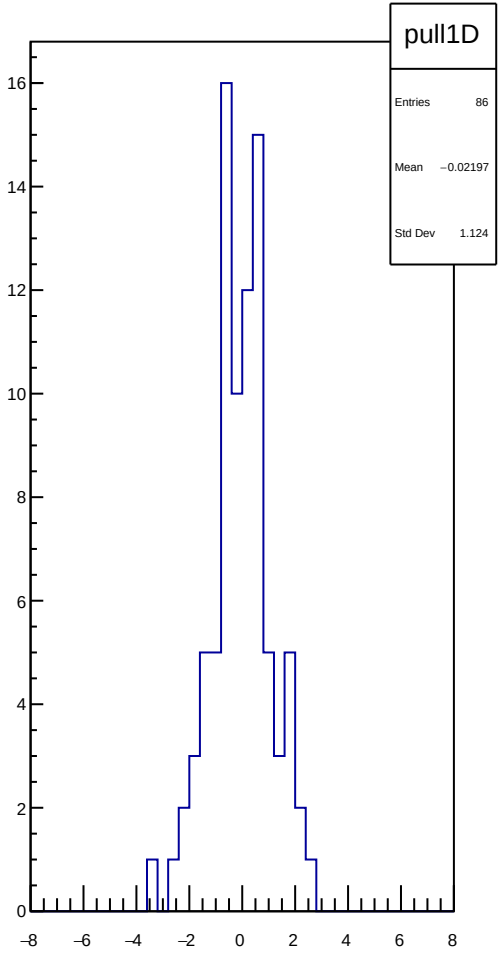

pull1D
Entries 86
Mean −0.02197
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

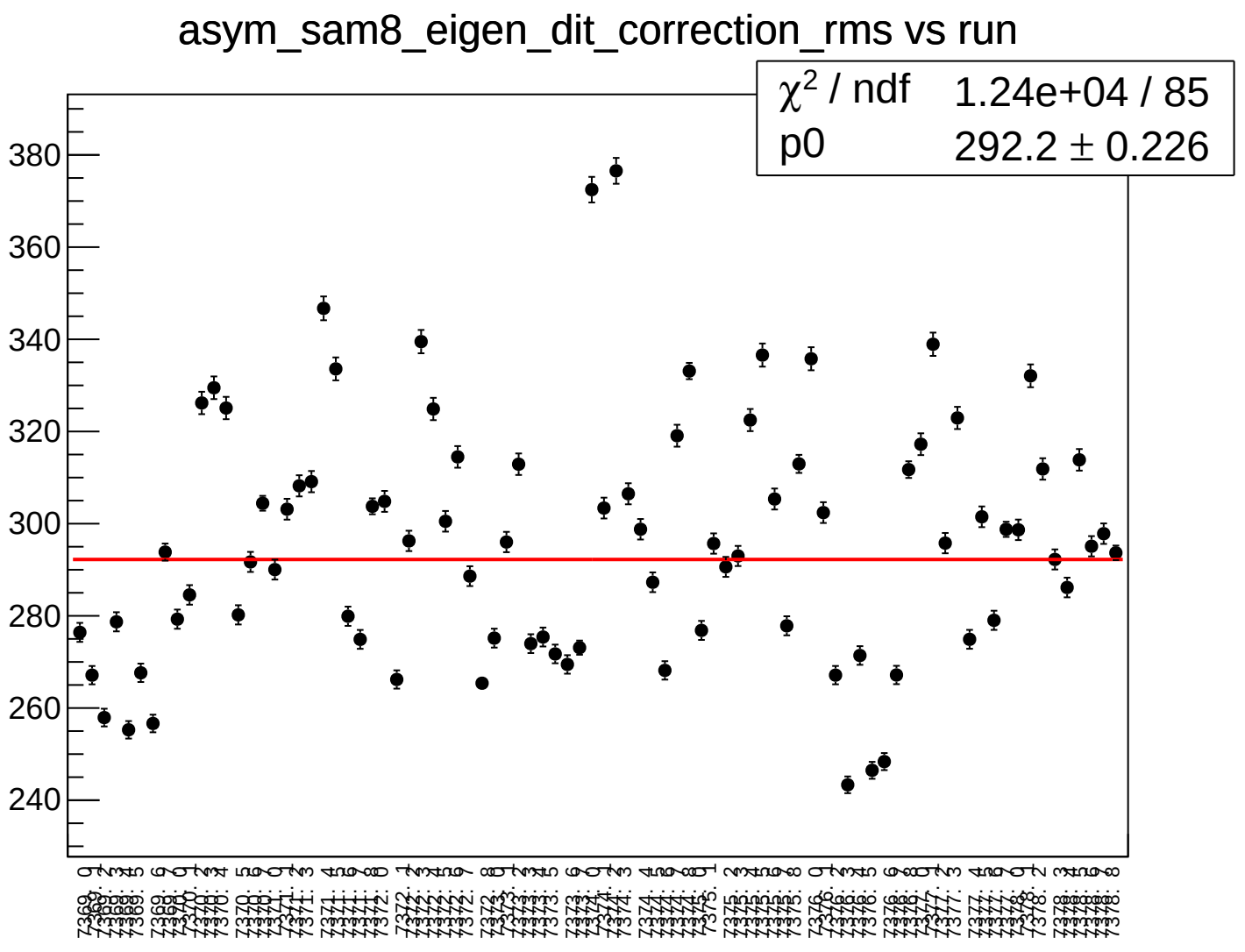

asym_sam8_dit_correction_rms vs run
χ² / ndf 1.24e+04 / 85
p0 292.2 ± 0.226
380
360
340
320
300
280
260
240

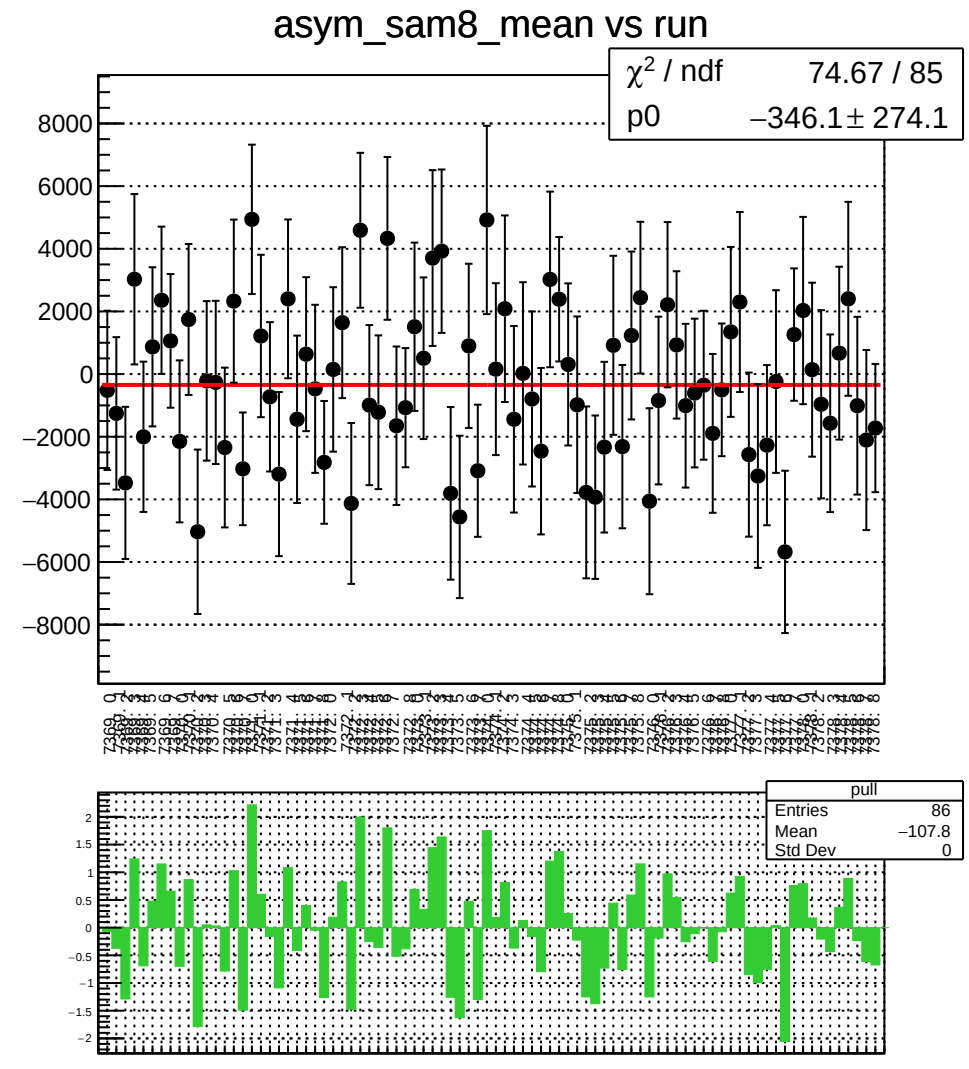

eigen_dit_asym_sam8_mean vs run
χ² / ndf 111 / 85
p0 −99.69 ± 153.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean 1088
Std Dev 0
pull1D
Entries 86
Mean −0.002771
Std Dev 1.136
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

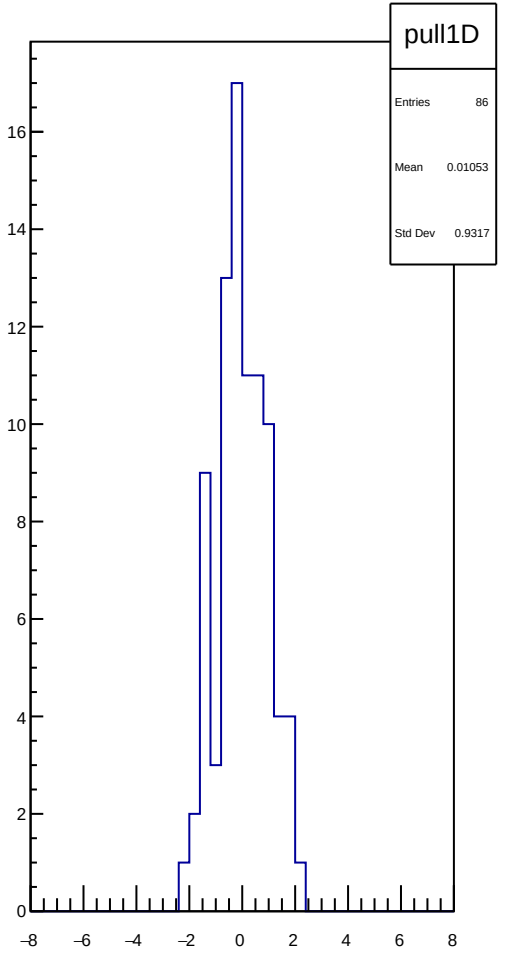

eigen_dit_asym_sam8_rms vs run
χ² / ndf 2.006e+05 / 85
p0 132 ± 0.1084
250
200
150
100
50

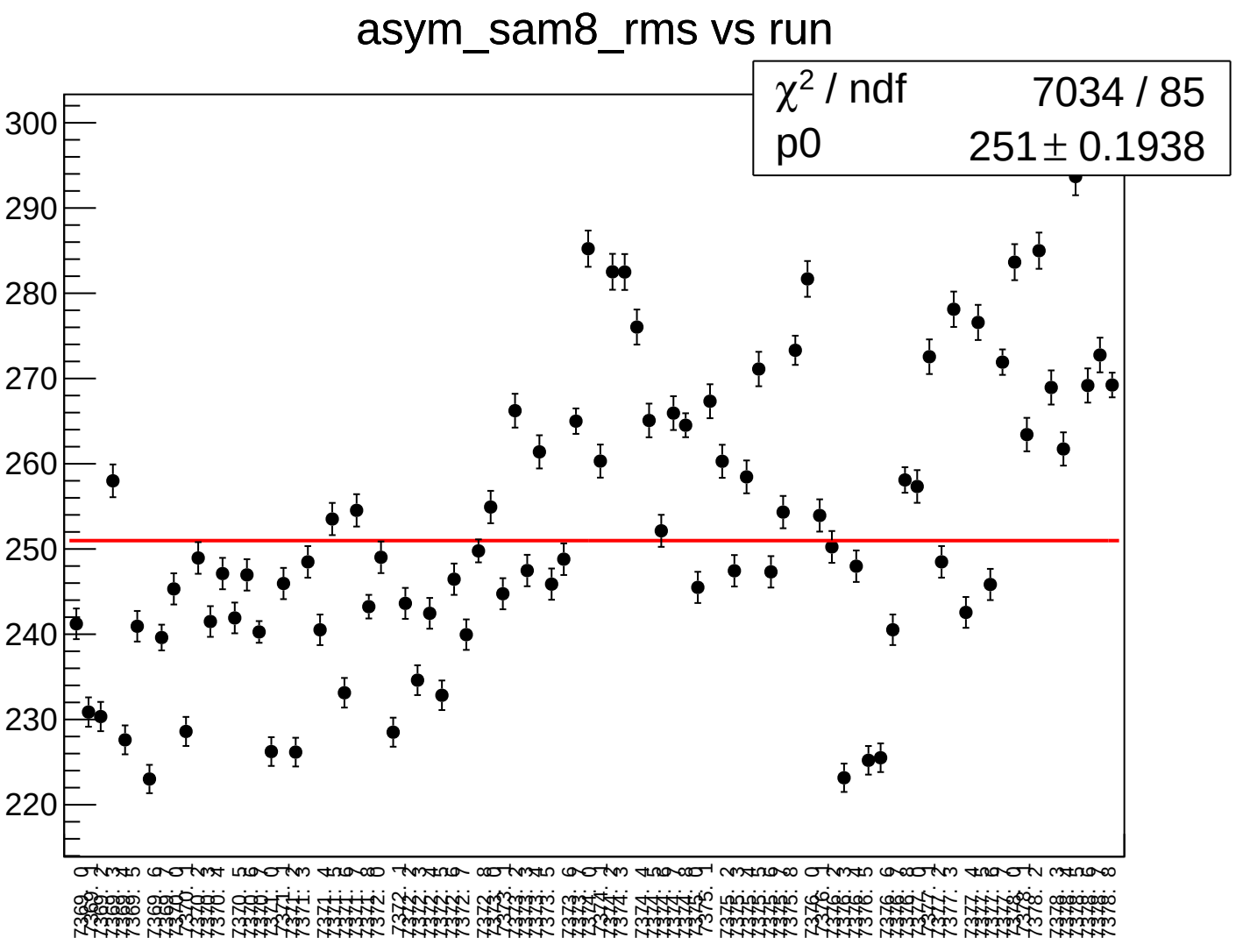

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 108.8 / 85
p0 293.2 ± 319.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 49.53
Std Dev 0
3
2
1
0
−1
−2
−3

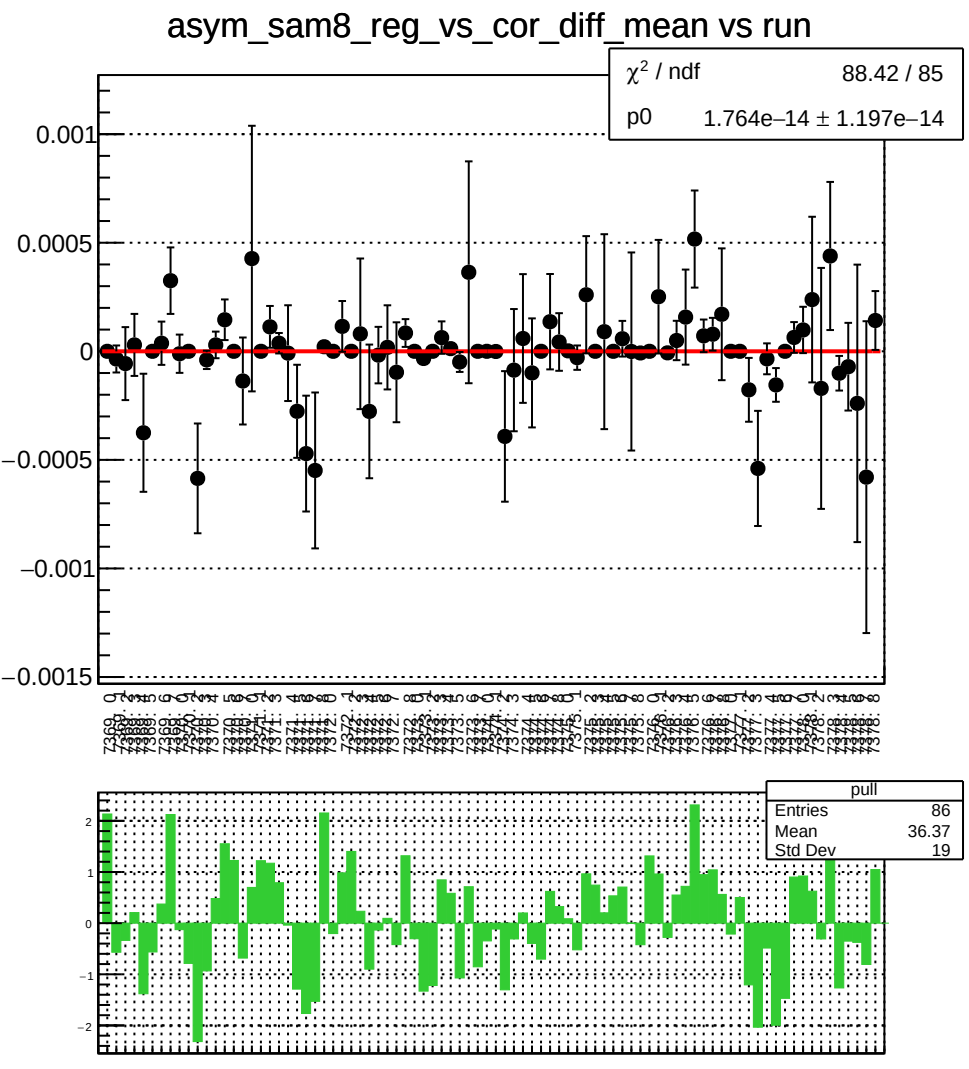

pull1D
Entries 86
Mean −0.02197
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

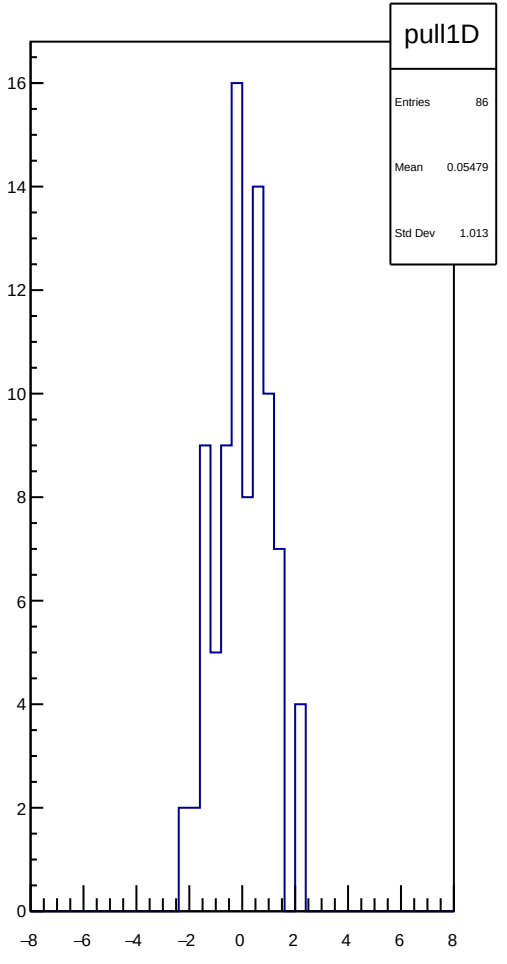

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1.24e+04 / 85
p0 292.2 ± 0.226
380
360
340
320
300
280
260
240

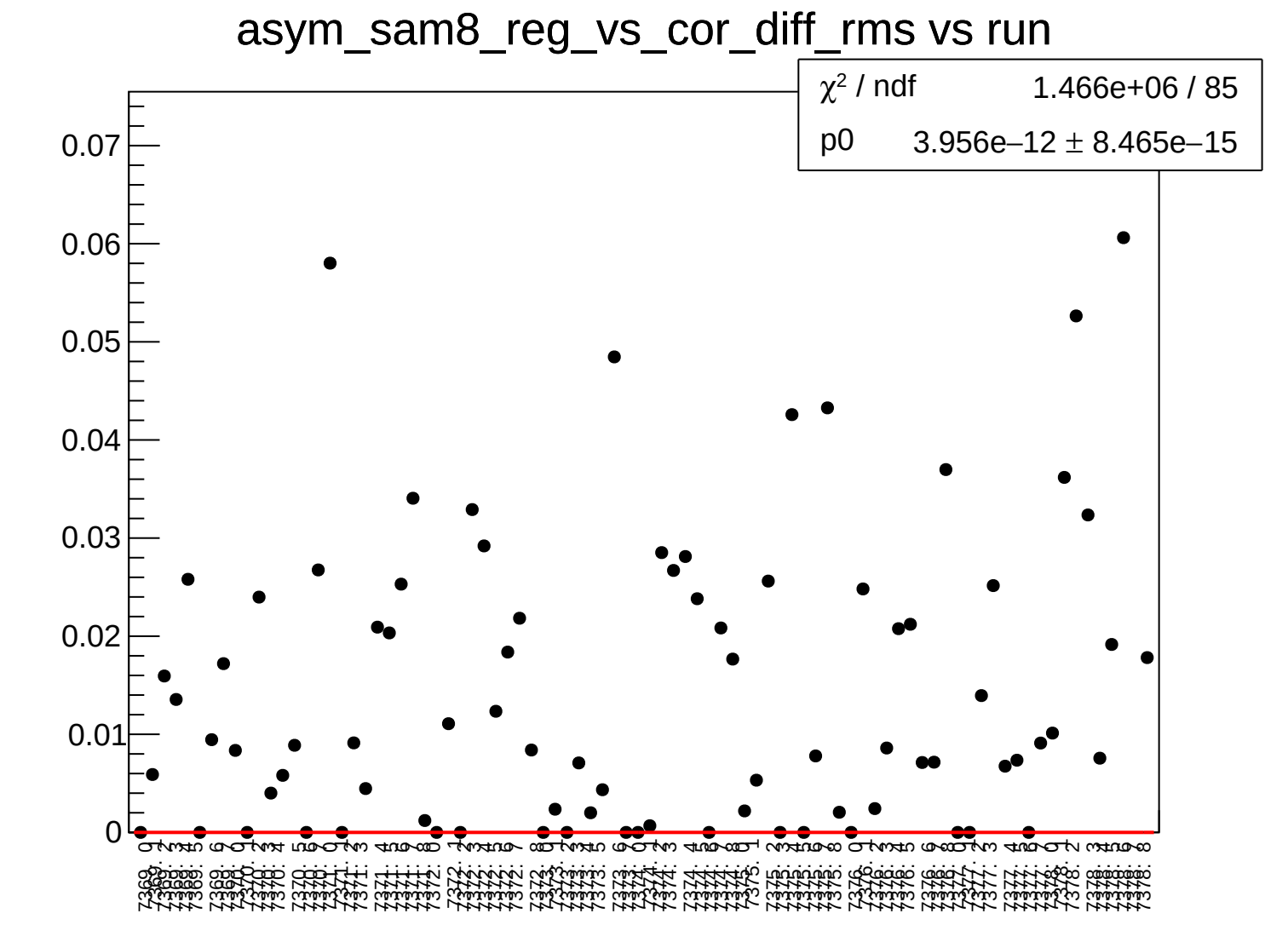

asym_sam8_mean vs run
χ² / ndf 74.67 / 85
p0 −346.1 ± 274.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −107.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

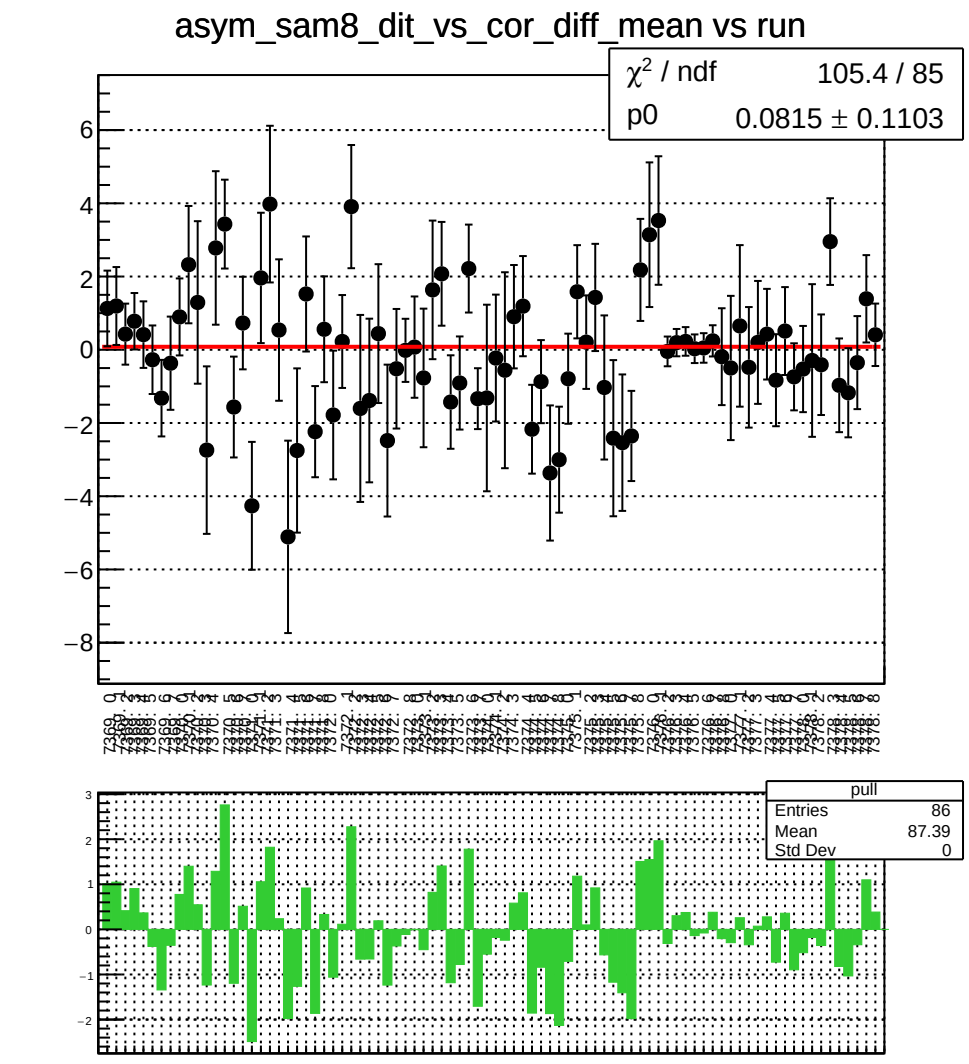

pull1D
Entries 86
Mean 0.01053
Std Dev 0.9317
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

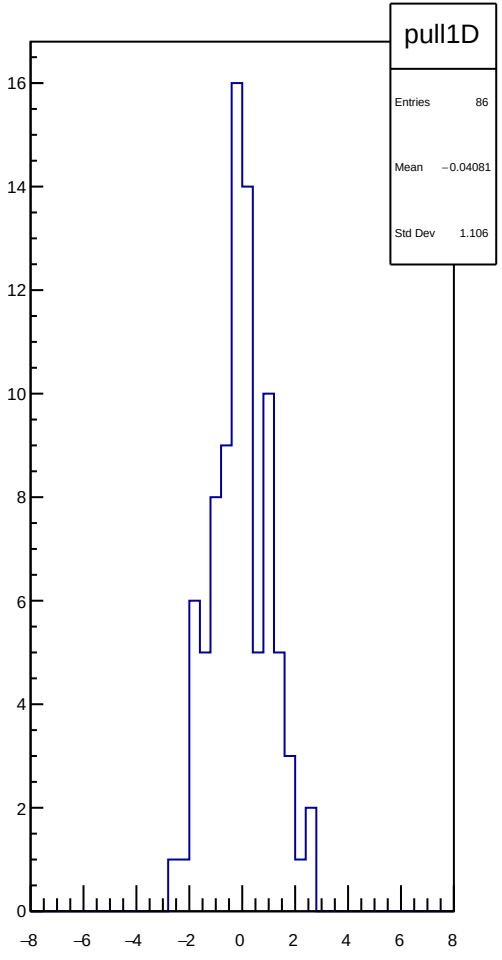

asym_sam8_rms vs run
χ^2 / ndf 7034 / 85
p0 251 ± 0.1938
300
290
280
270
260
250
240
230
220

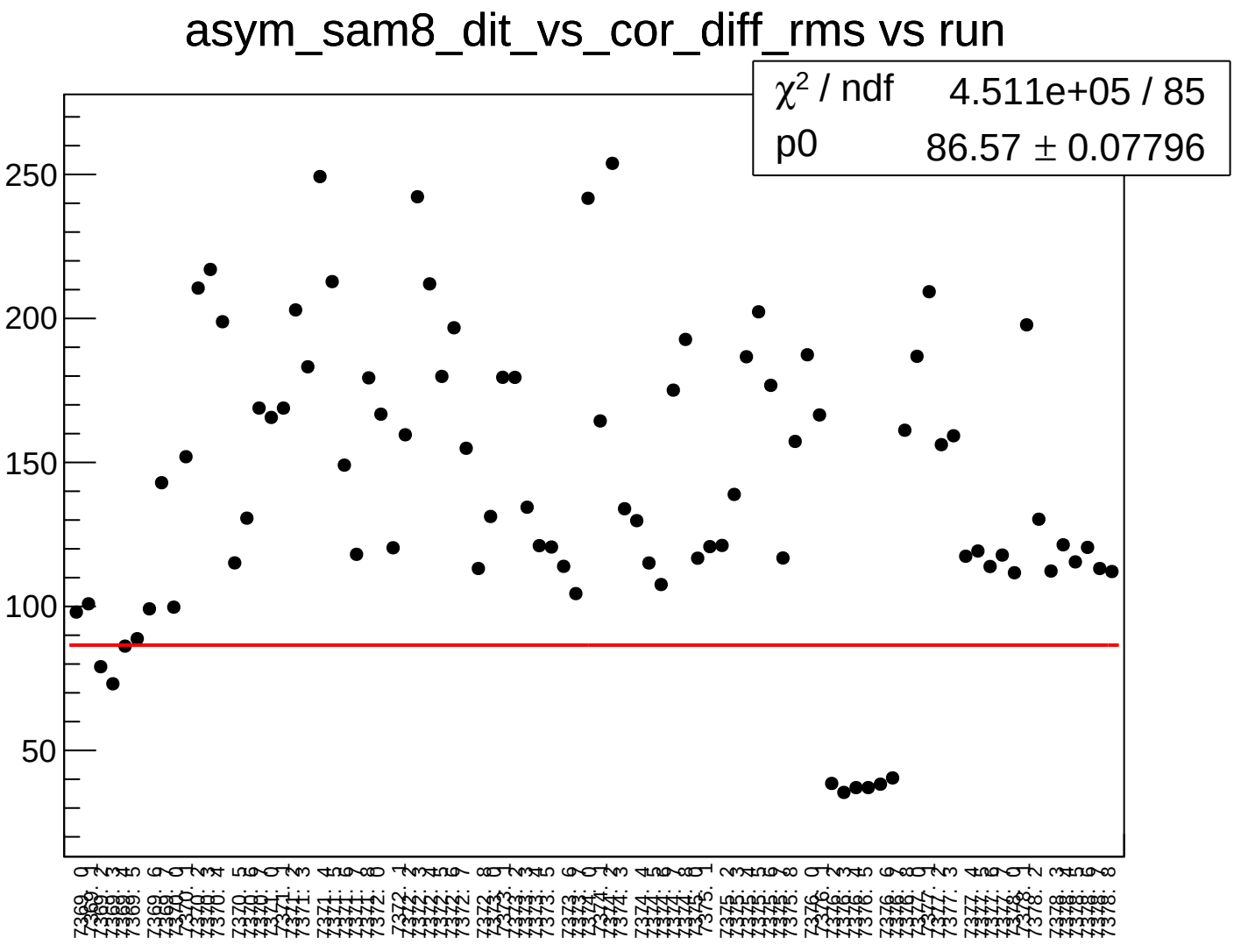

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 88.42 / 85
p0 1.764e−14 ± 1.197e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean 36.37
Std Dev 19
2
1
0
−1
−2

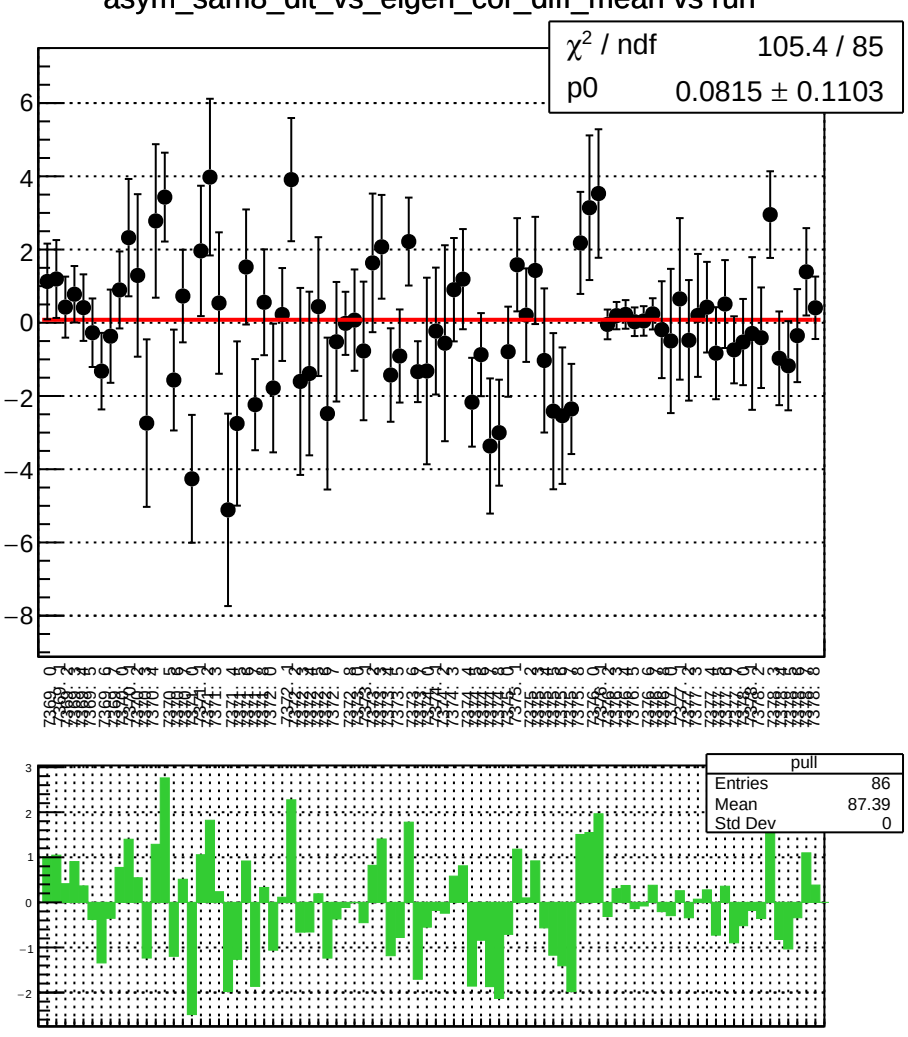

pull1D
Entries 86
Mean 0.05479
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

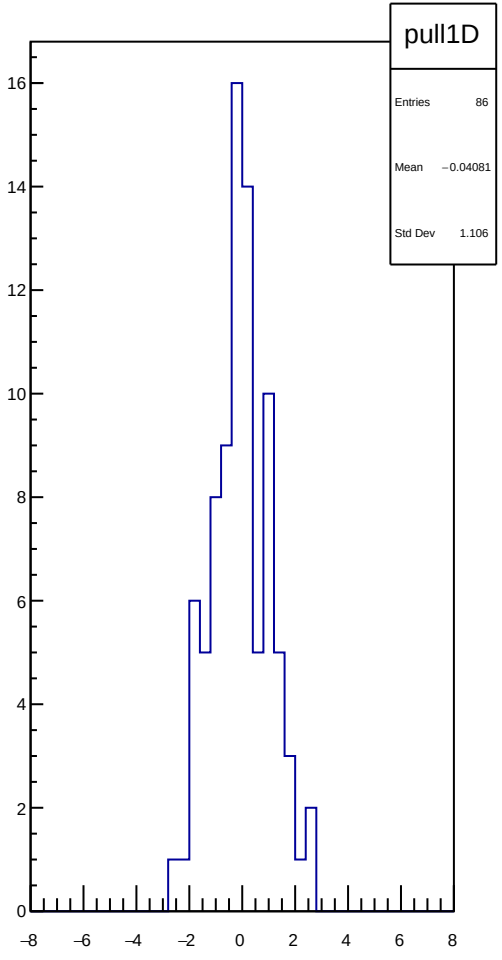

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.466e+06 / 85
p0 3.956e−12 ± 8.465e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

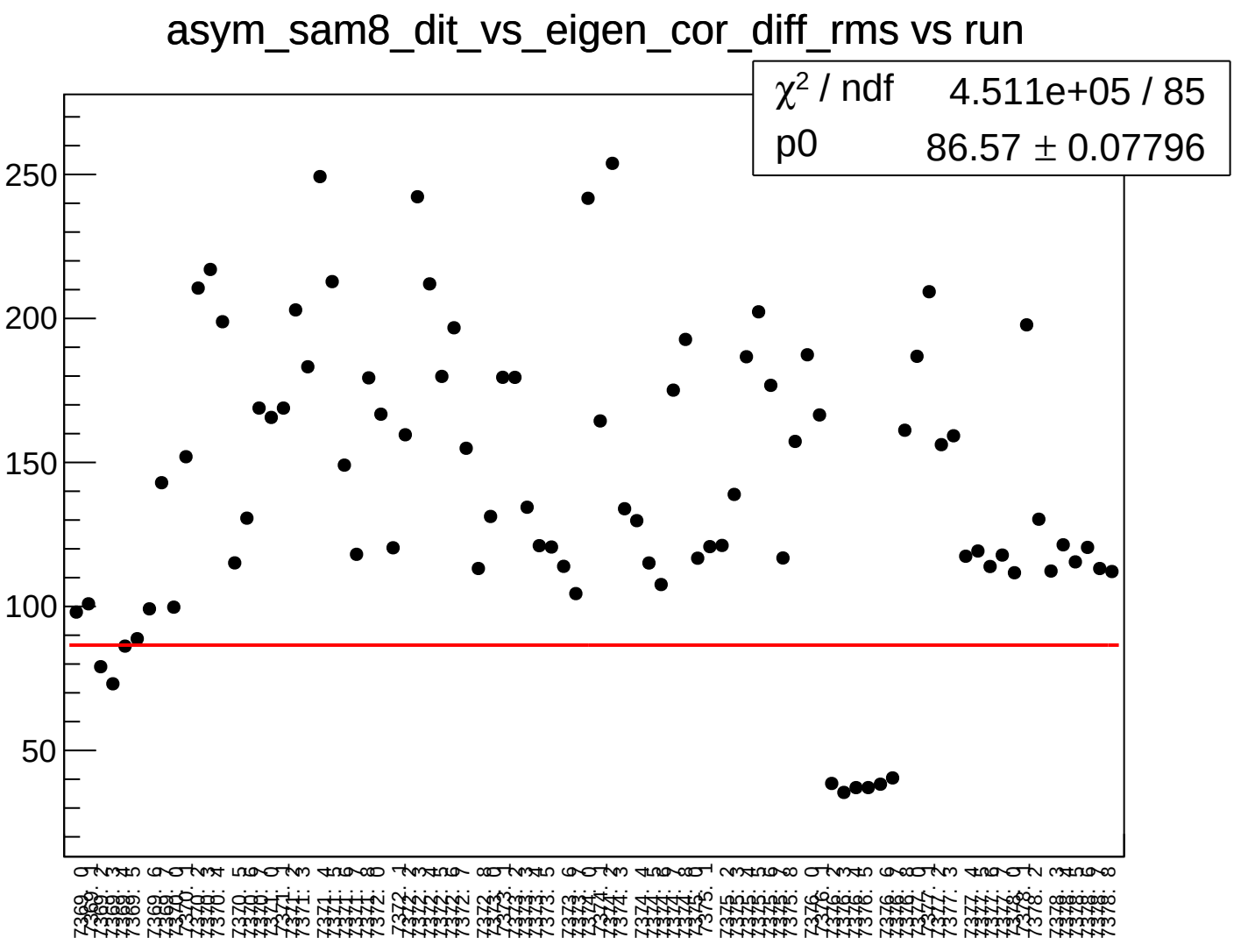

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 105.4 / 85
p0 0.0815 ± 0.1103
pull
Entries 86
Mean 87.39
Std Dev 0

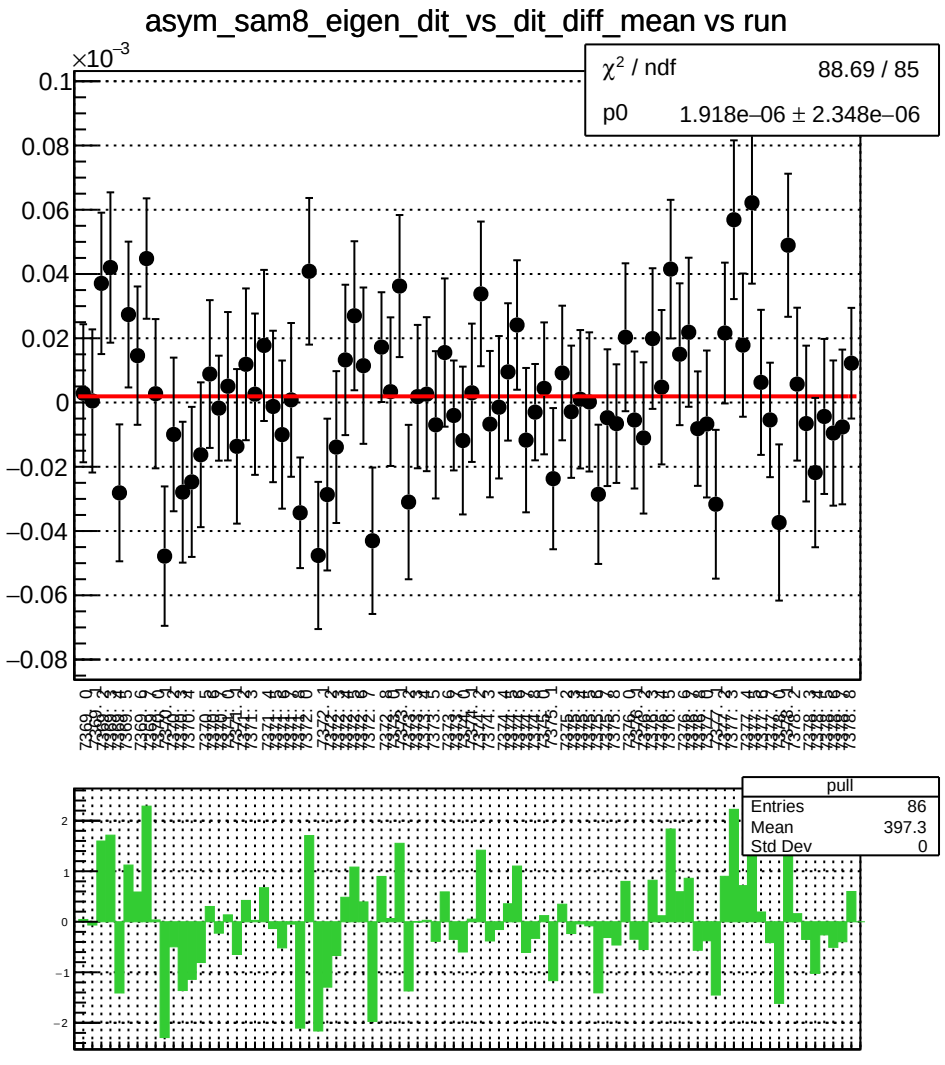

pull1D
Entries 86
Mean −0.04081
Std Dev 1.106

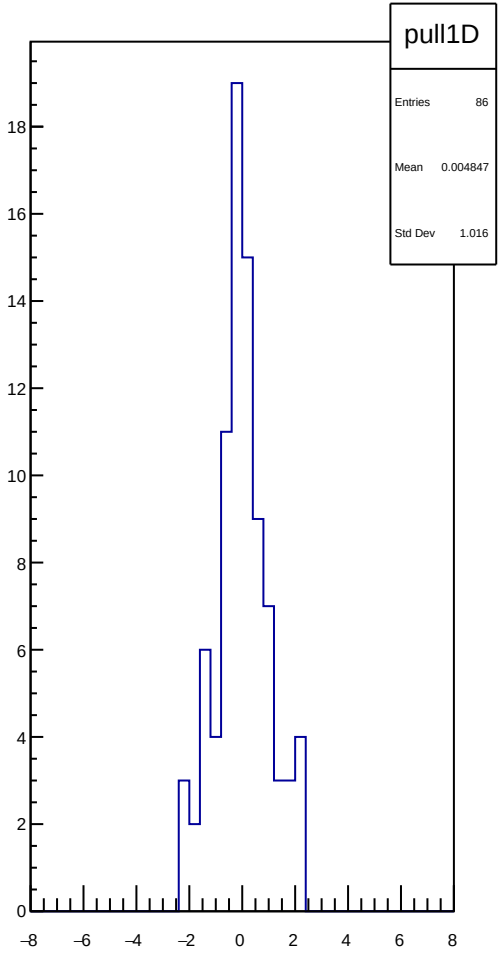

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 4.511e+05 / 85
p0 86.57 ± 0.07796
250
200
150
100
50

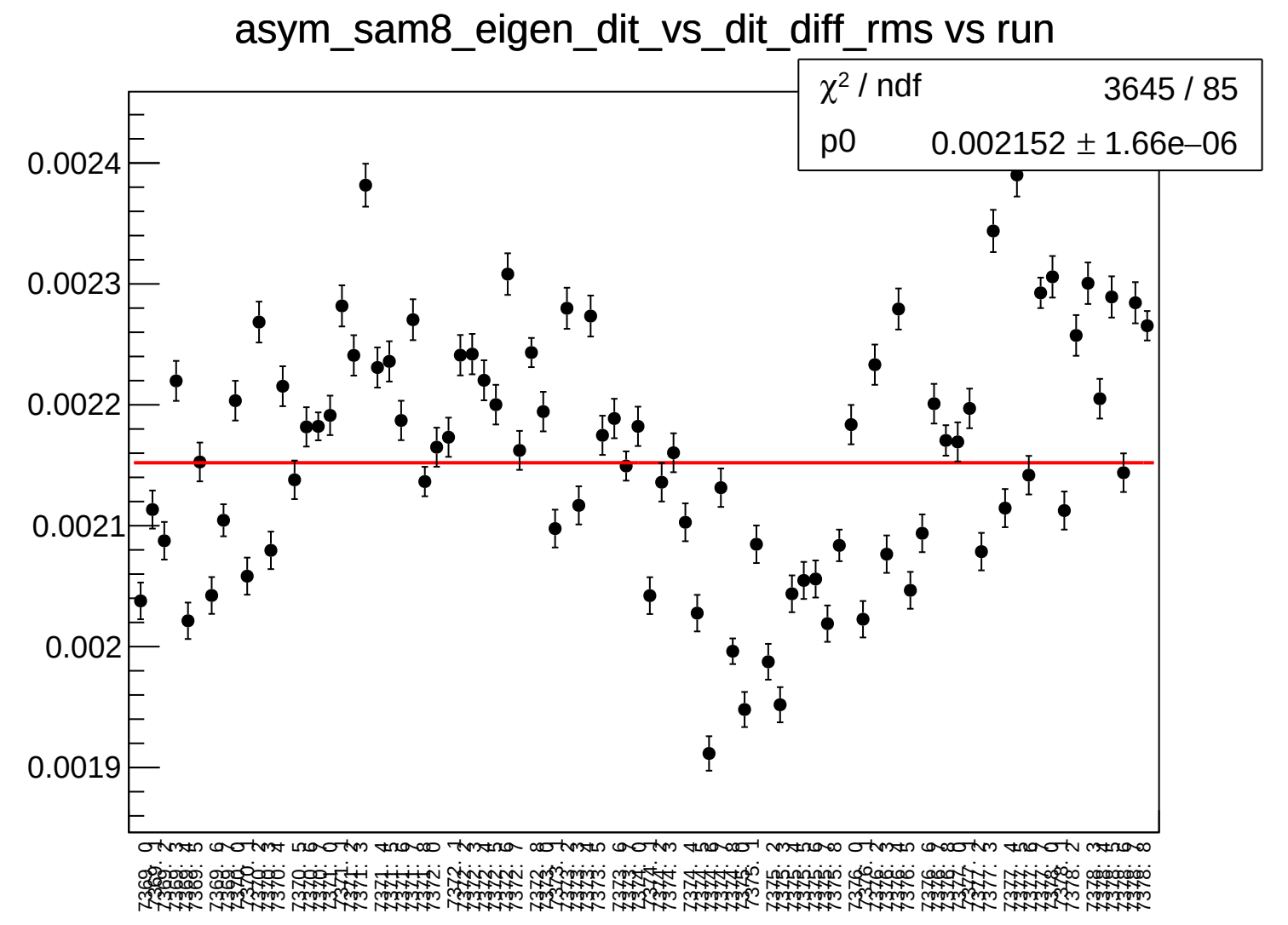

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.4 / 85
p0 0.0815 ± 0.1103
pull
Entries 86
Mean 87.39
Std Dev 0

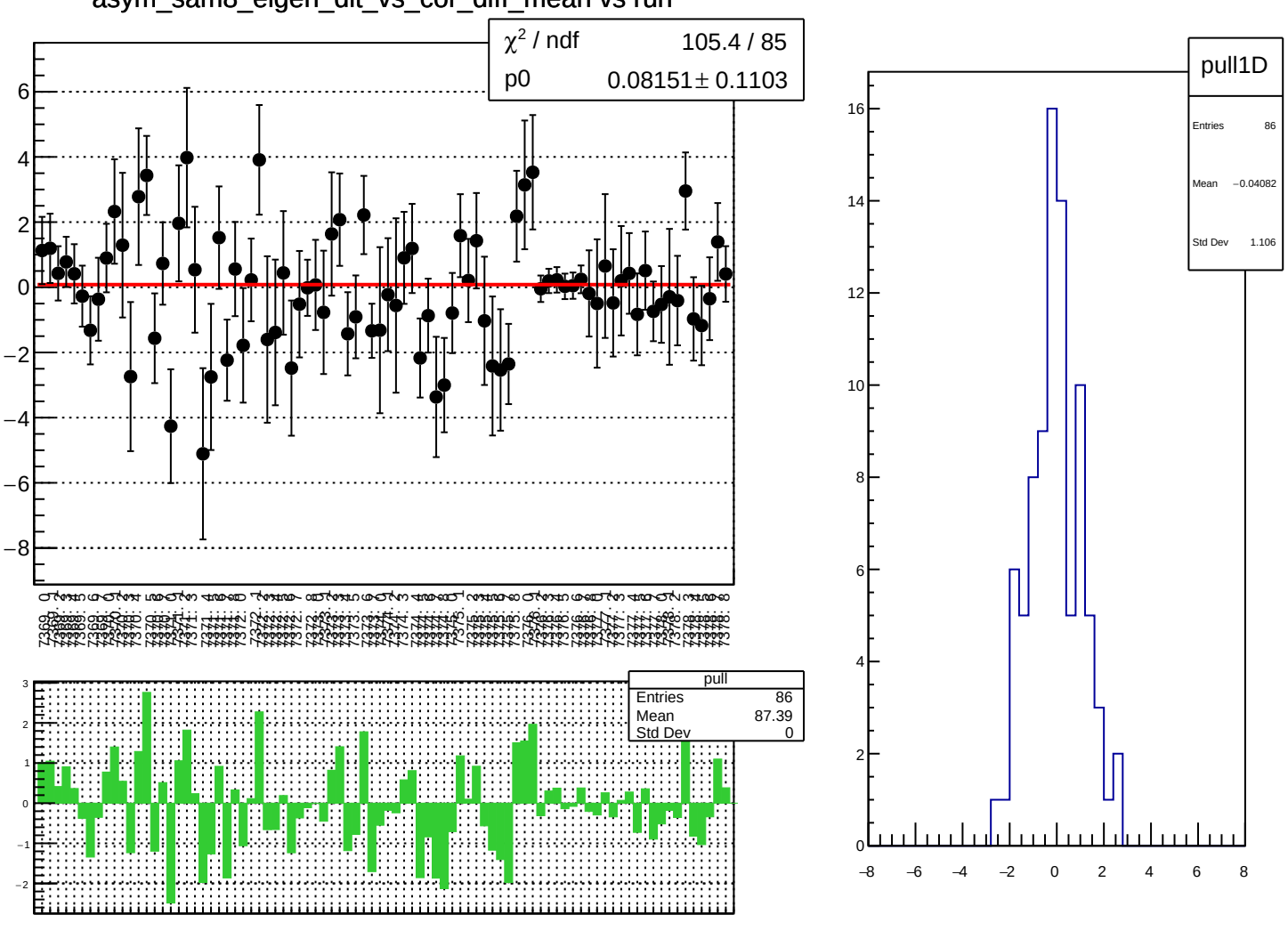

pull1D
Entries 86
Mean −0.04081
Std Dev 1.106

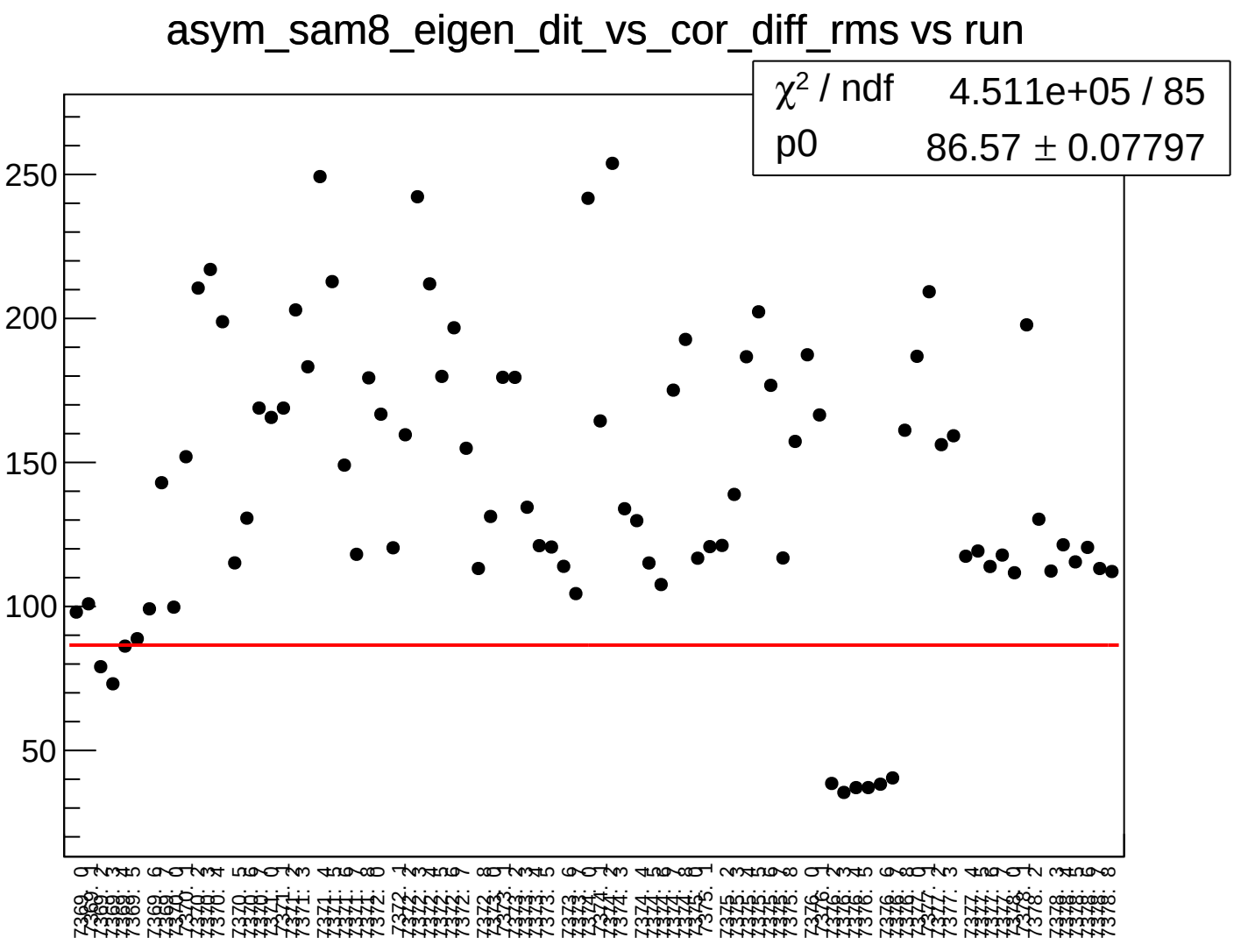

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.511e+05 / 85
p0 86.57 ± 0.07796
250
200
150
100
50

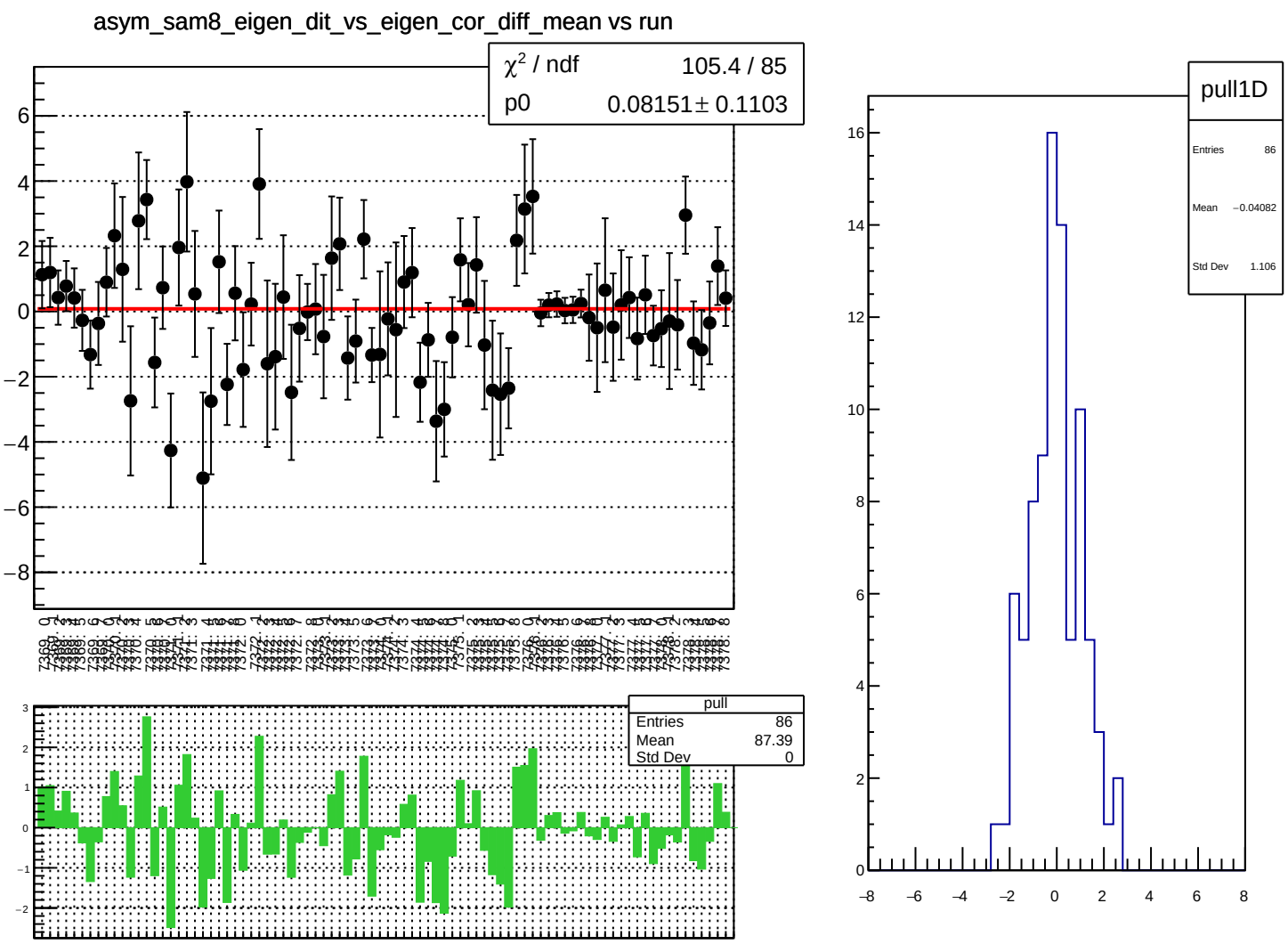

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.69 / 85
p0 1.918e−06 ± 2.348e−06
pull
Entries 86
Mean 397.3
Std Dev 0

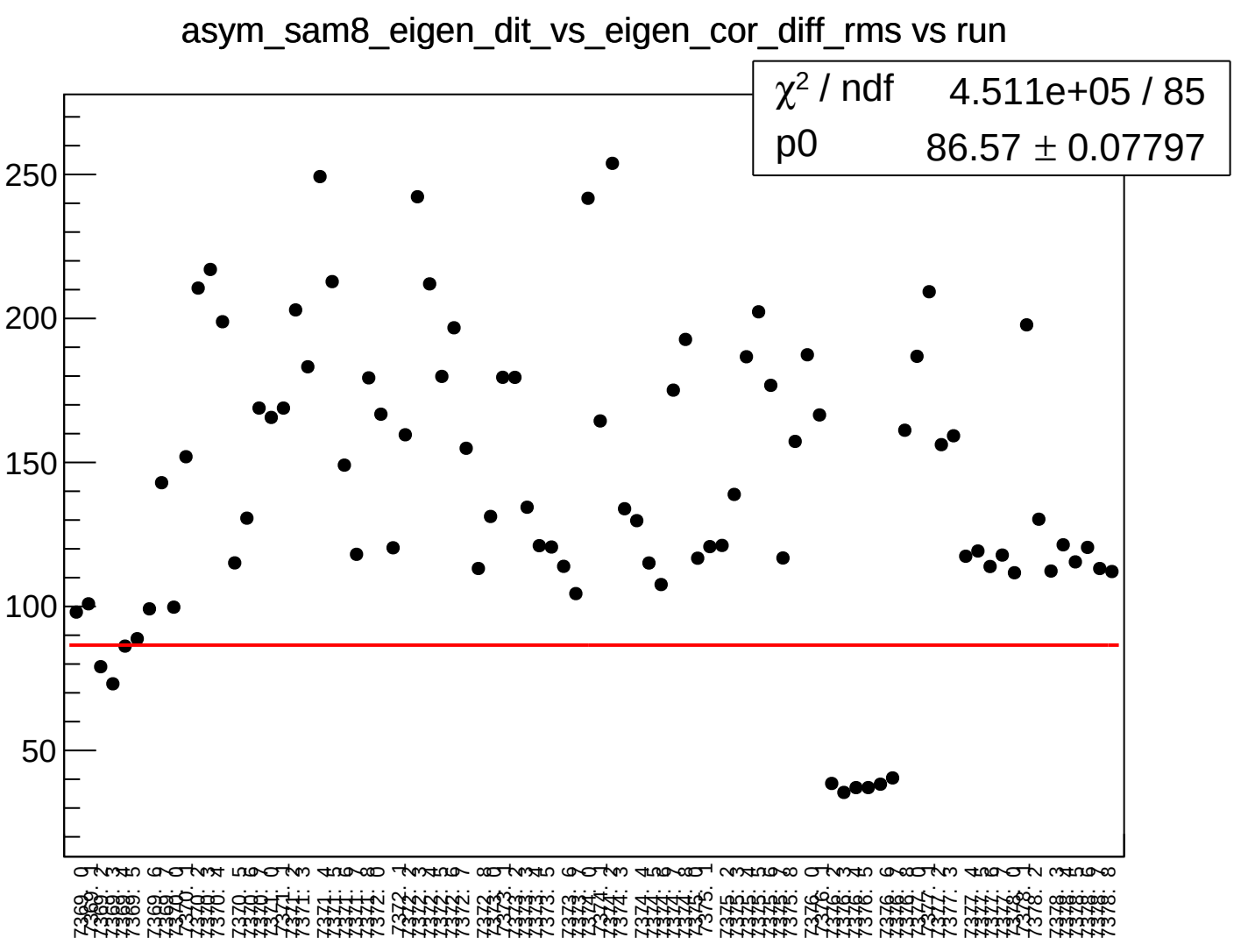

pull1D
Entries 86
Mean 0.004847
Std Dev 1.016

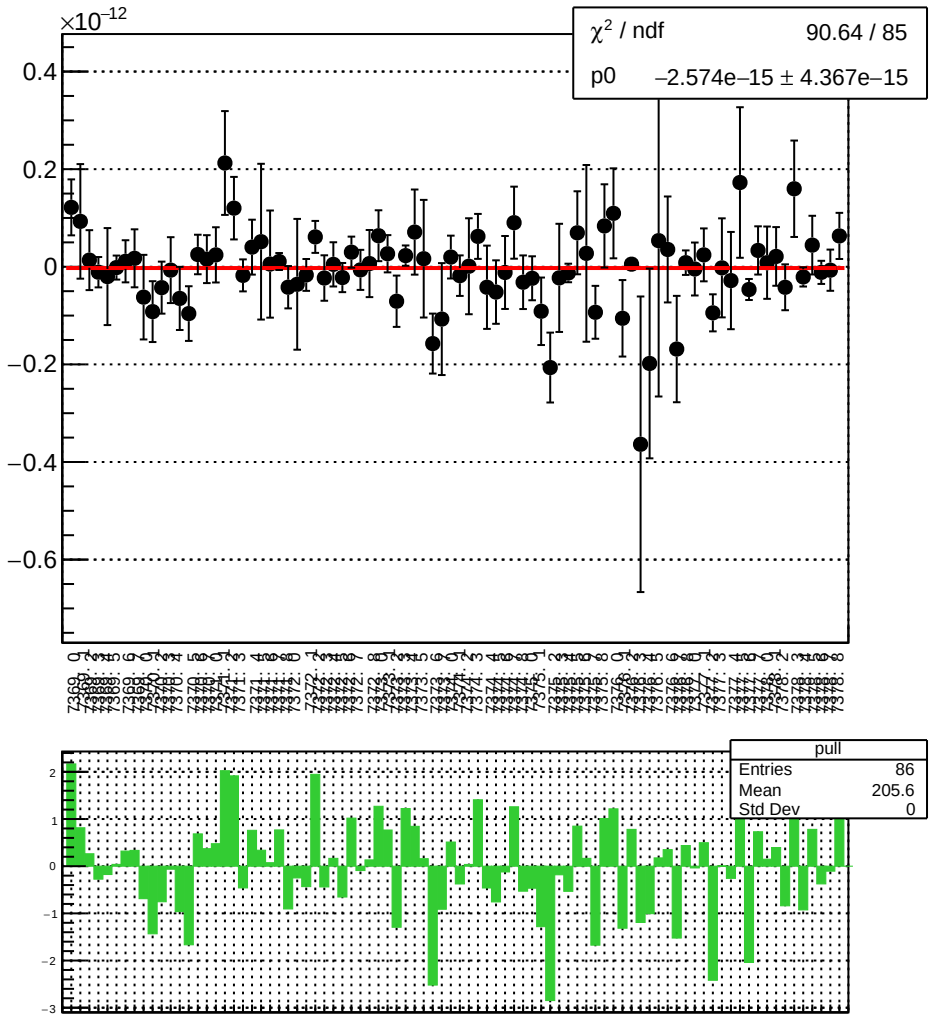

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3645 / 85
p0 0.002152 ± 1.66e–06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

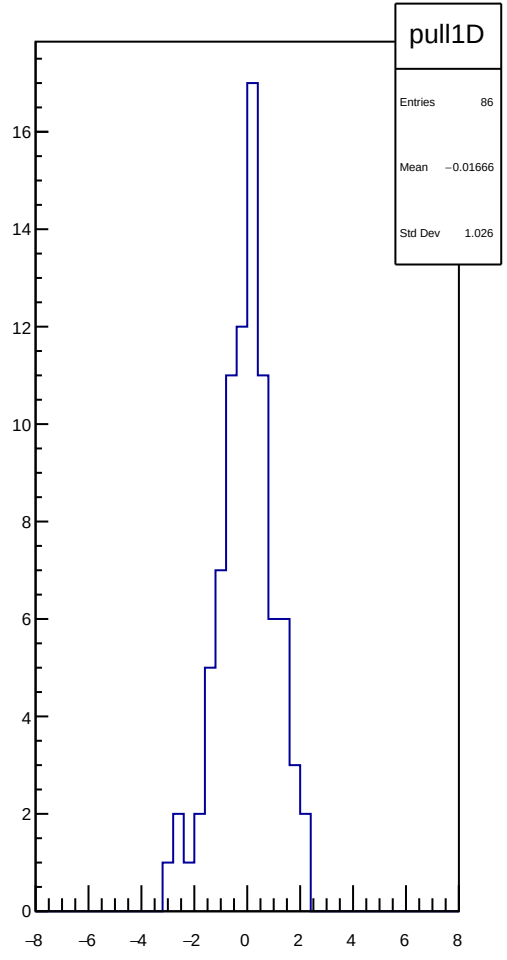

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.4 / 85
p0 0.08151 ± 0.1103
pull
Entries 86
Mean 87.39
Std Dev 0
pull1D
Entries 86
Mean −0.04082
Std Dev 1.106

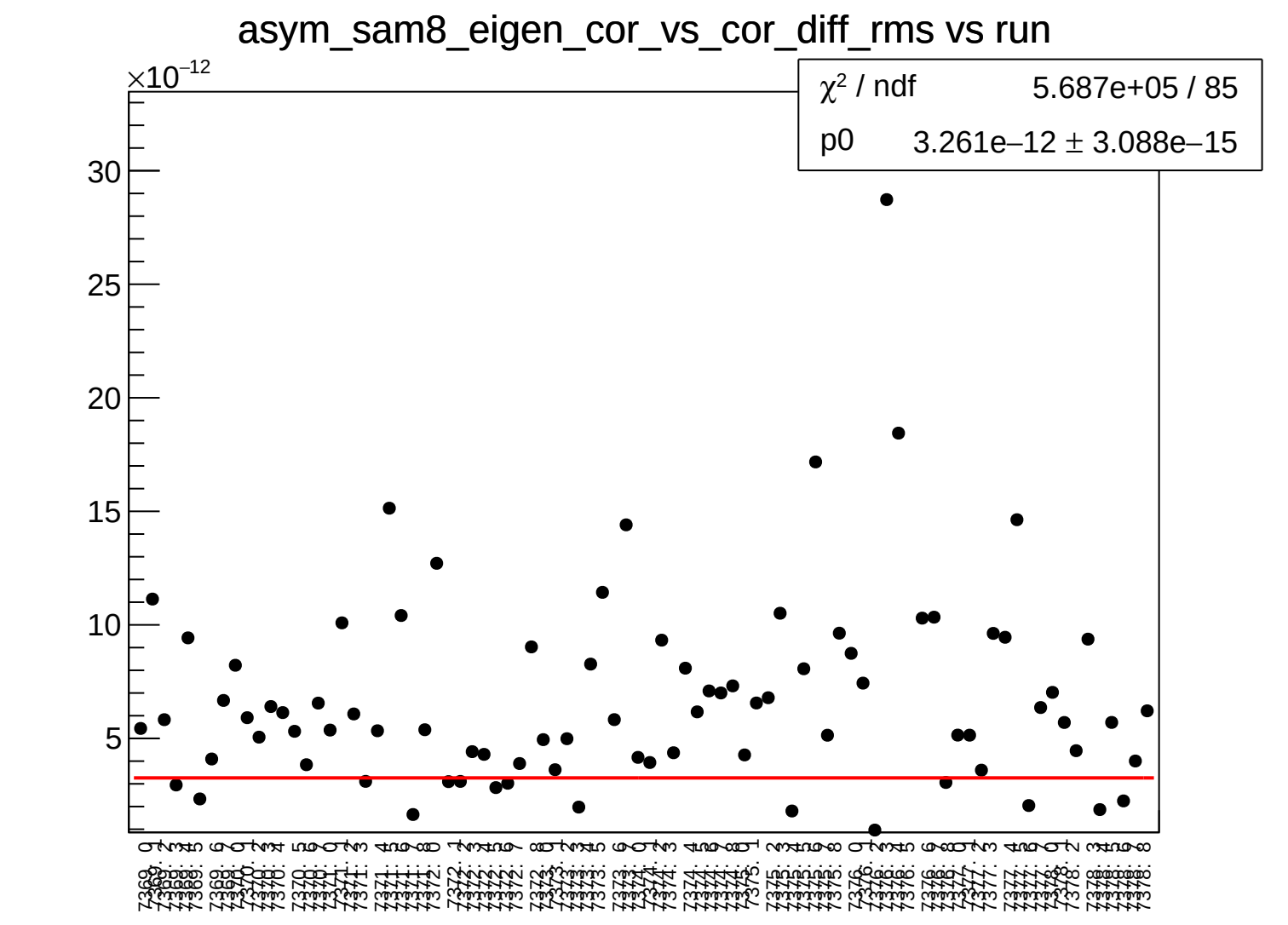

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.511e+05 / 85
p0 86.57 ± 0.07797
250
200
150
100
50

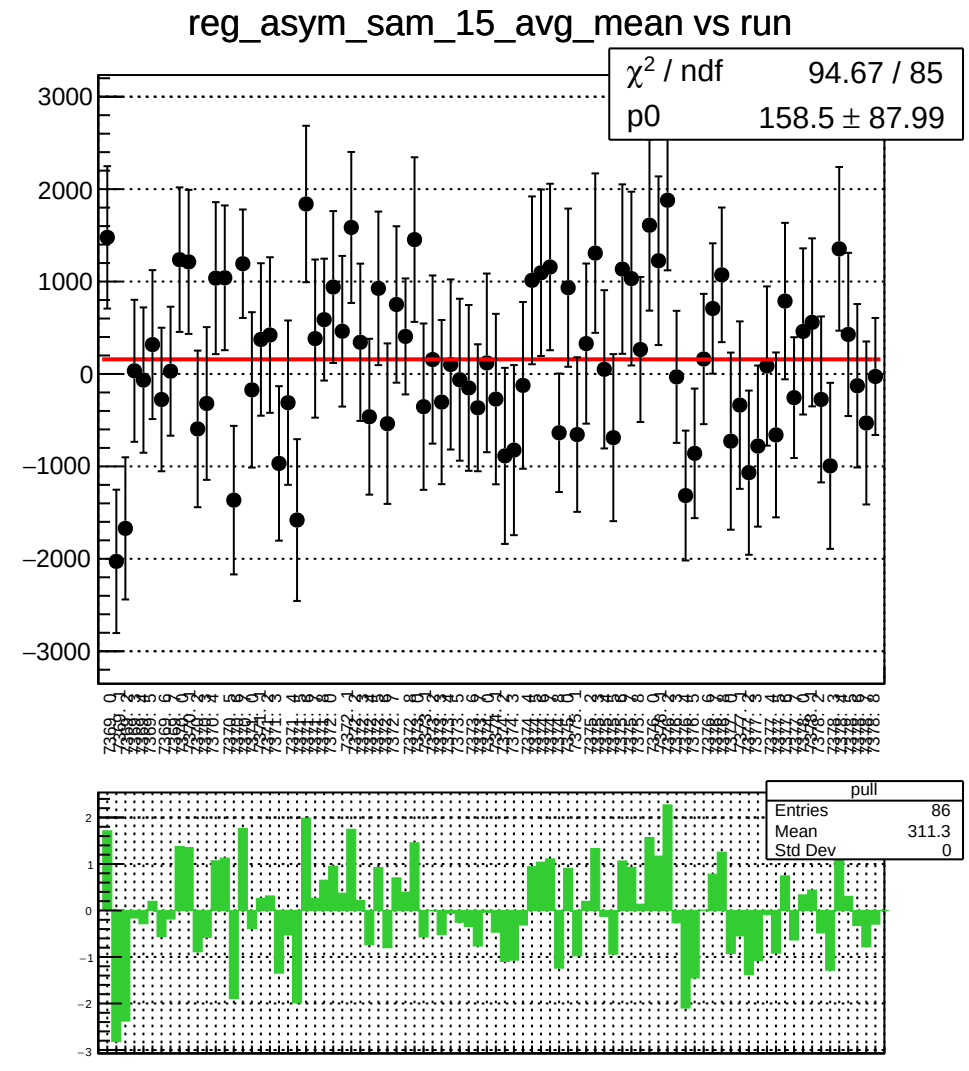

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.4 / 85
p0 0.08151 ± 0.1103
pull
Entries 86
Mean 87.39
Std Dev 0
pull1D
Entries 86
Mean −0.04082
Std Dev 1.106

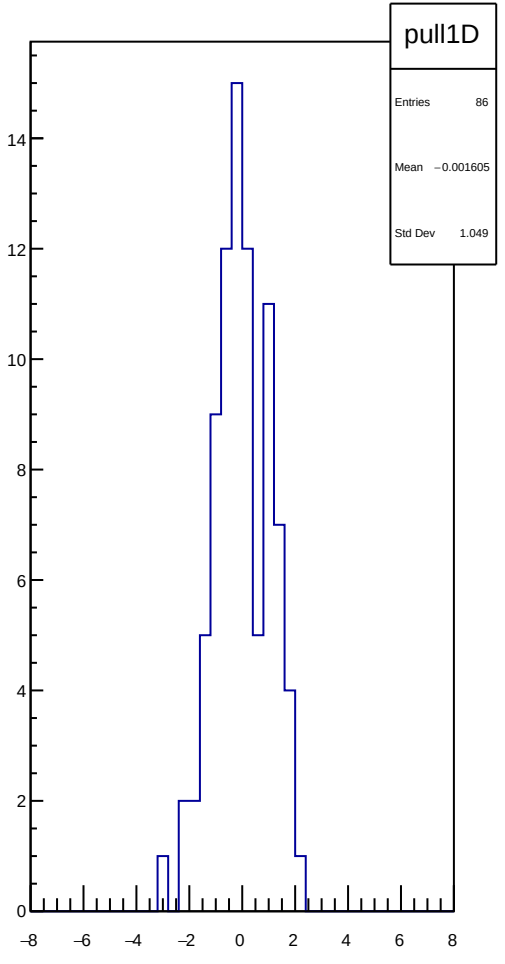

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.511e+05 / 85
p0 86.57 ± 0.07797
250
200
150
100
50

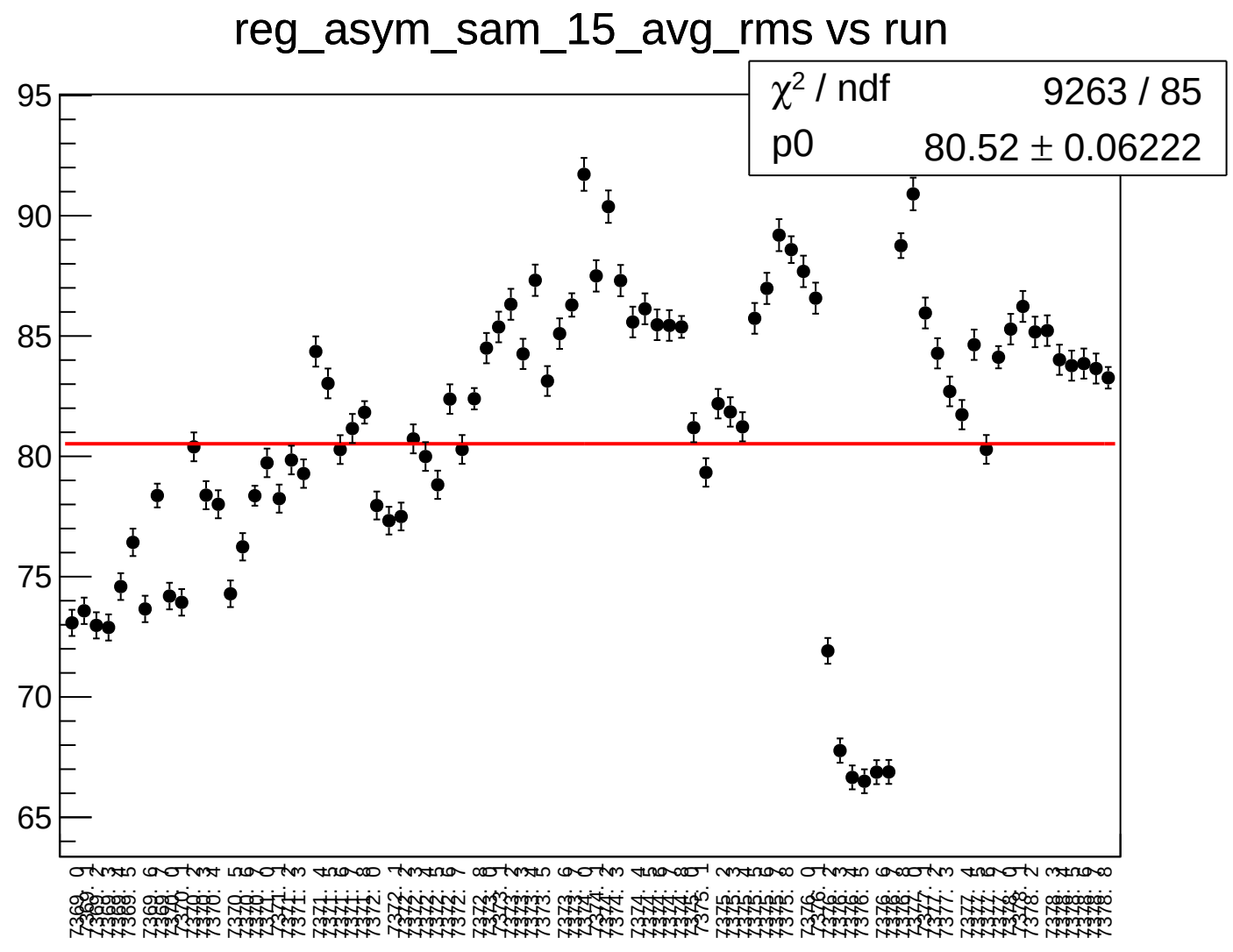

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 90.64 / 85
p0 −2.574e−15 ± 4.367e−15
pull
Entries 86
Mean 205.6
Std Dev 0

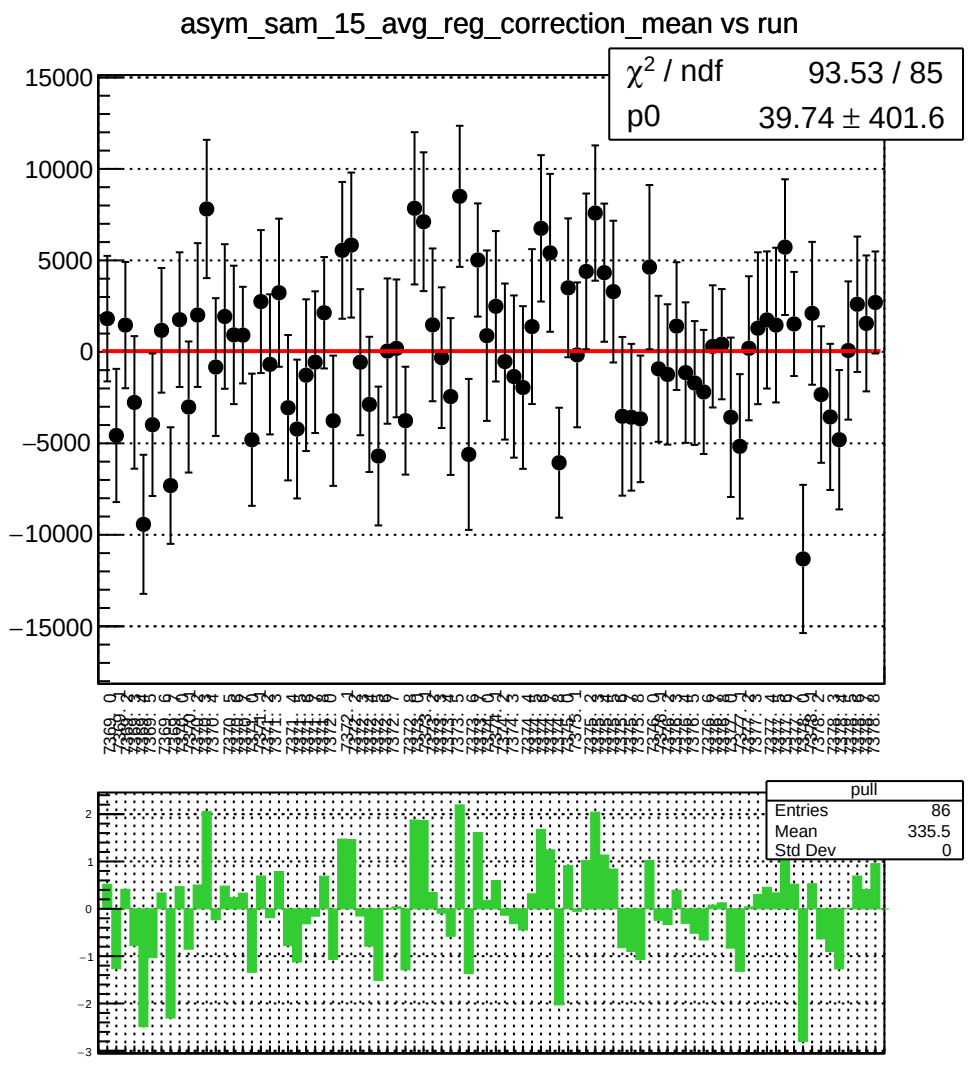

pull1D
Entries 86
Mean −0.01666
Std Dev 1.026

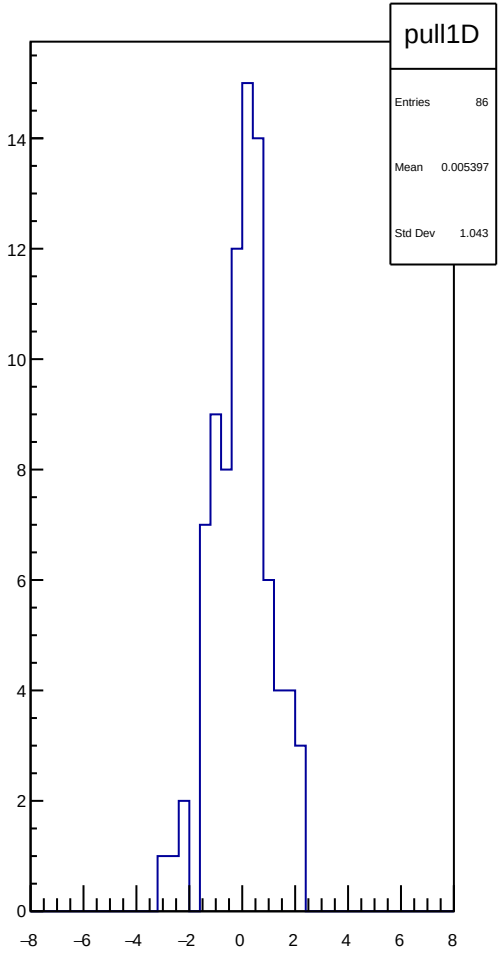

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.687e+05 / 85
p0 3.261e−12 ± 3.088e−15
30
25
20
15
10
5

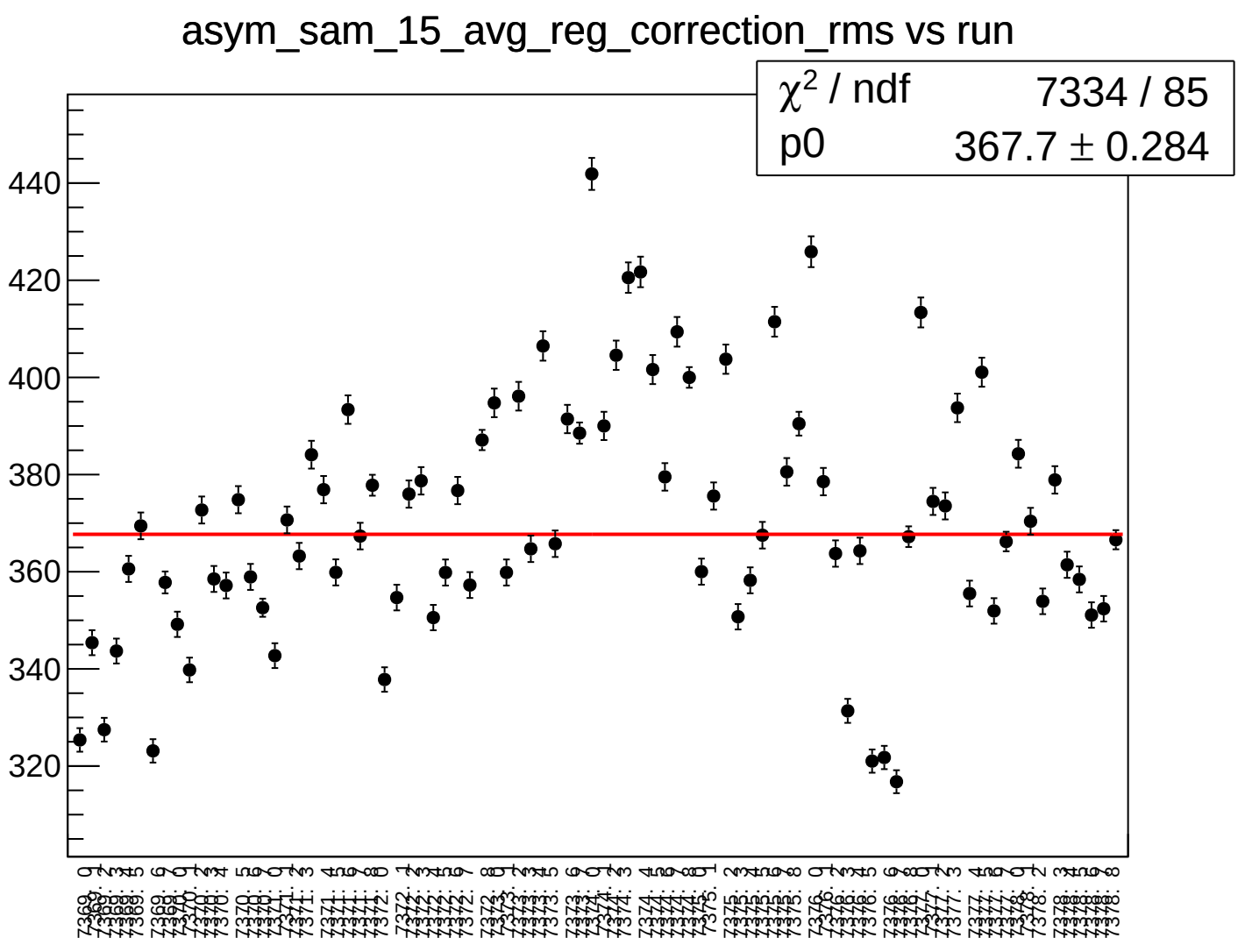

reg_asym_sam_15_avg_mean vs run
χ² / ndf 94.67 / 85
p0 158.5 ± 87.99
pull
Entries 86
Mean 311.3
Std Dev 0

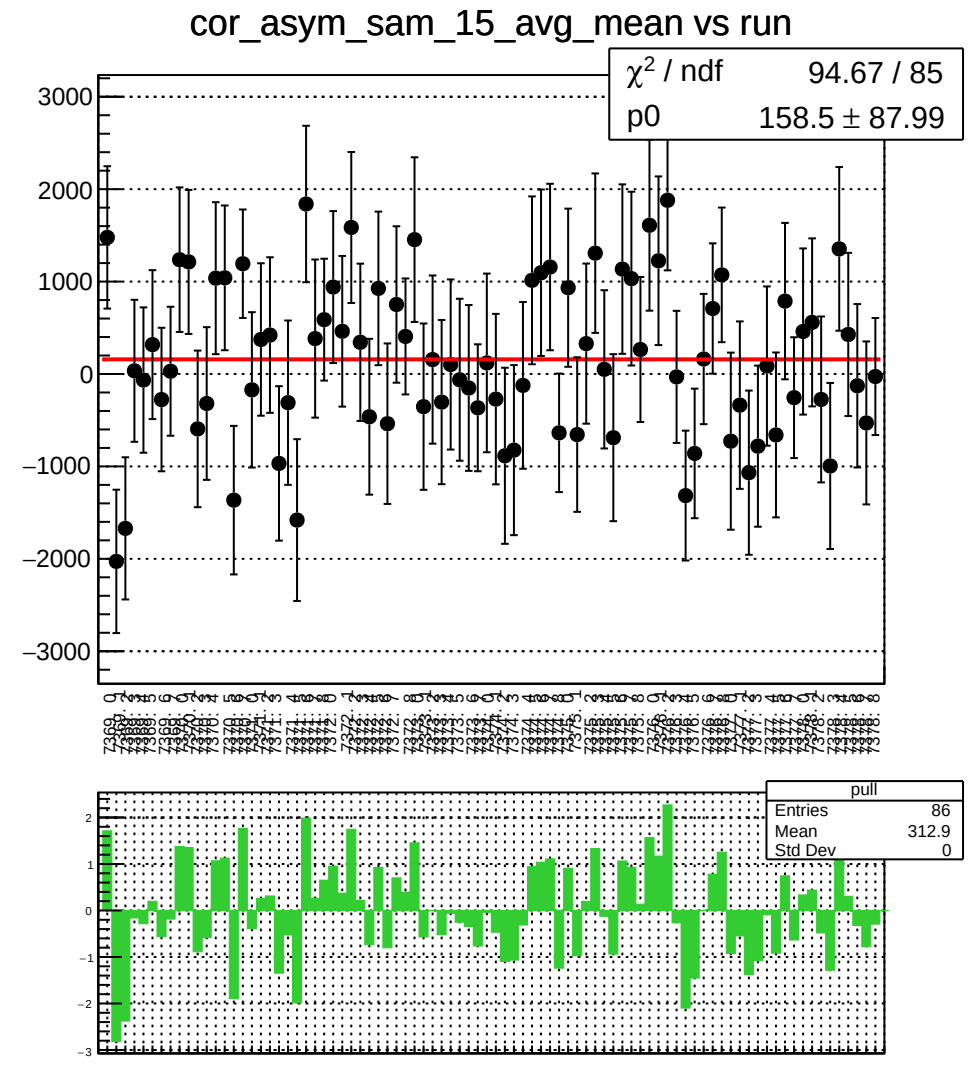

pull1D
Entries 86
Mean −0.001605
Std Dev 1.049

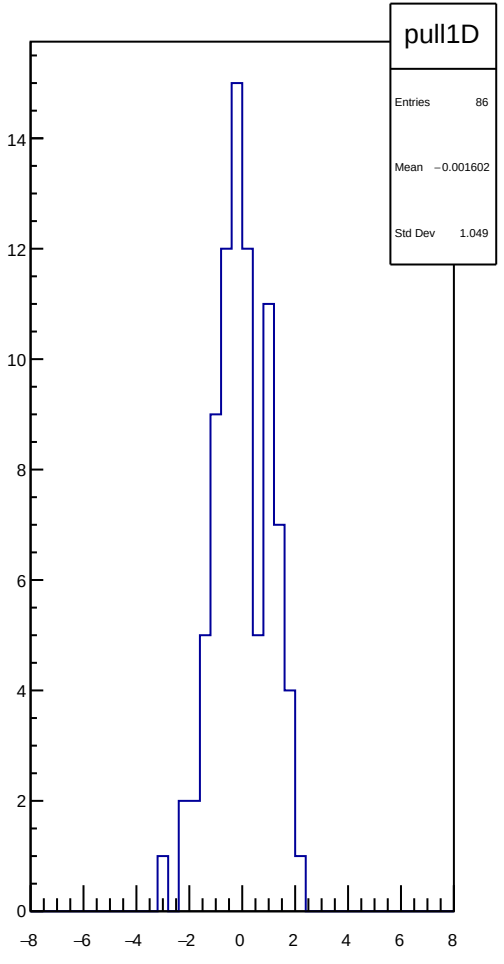

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 9263 / 85
p0 80.52 ± 0.06222
95
90
85
80
75
70
65

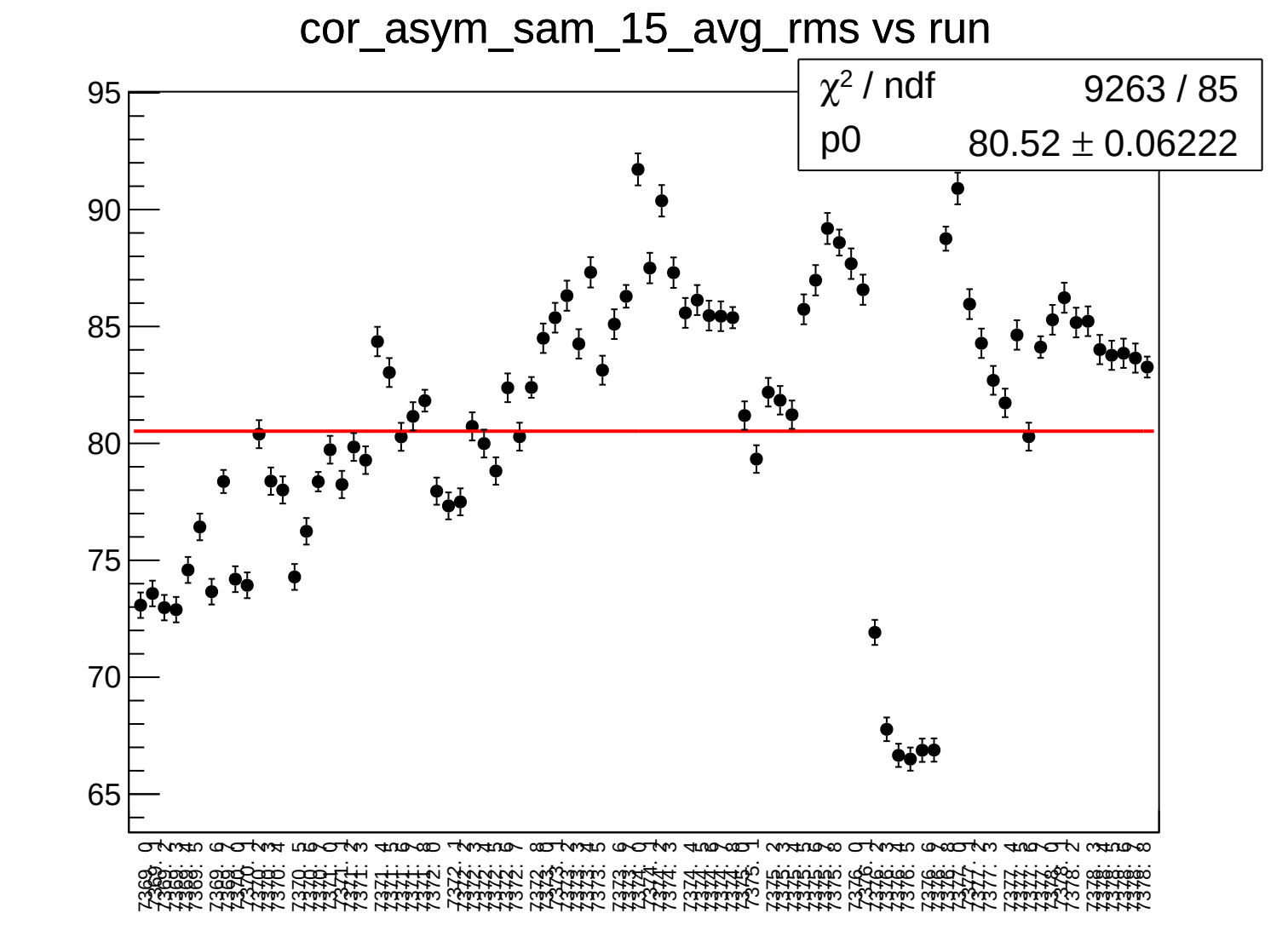

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 93.53 / 85
p0 39.74 ± 401.6
pull
Entries 86
Mean 335.5
Std Dev 0

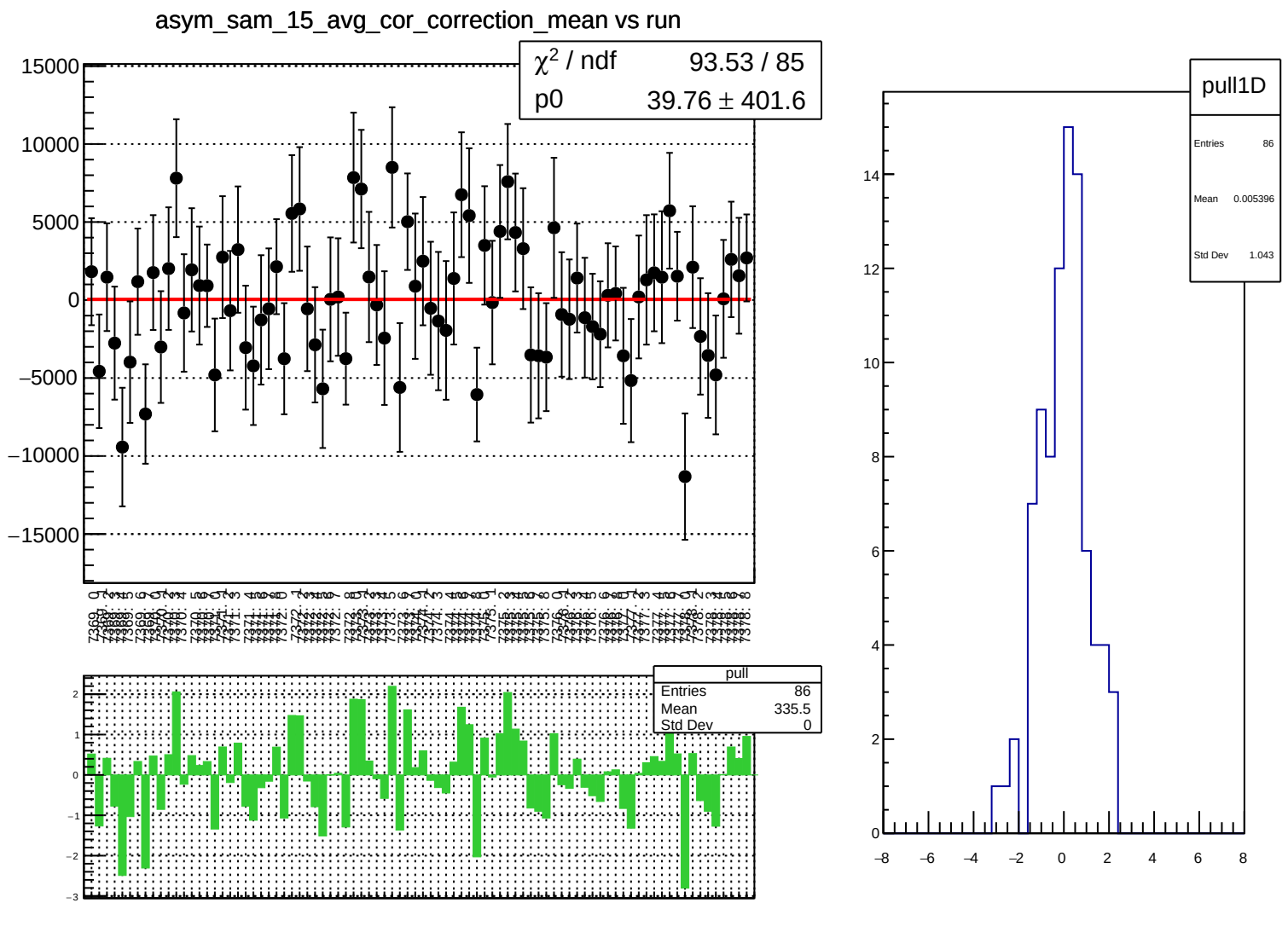

pull1D
Entries 86
Mean 0.005397
Std Dev 1.043

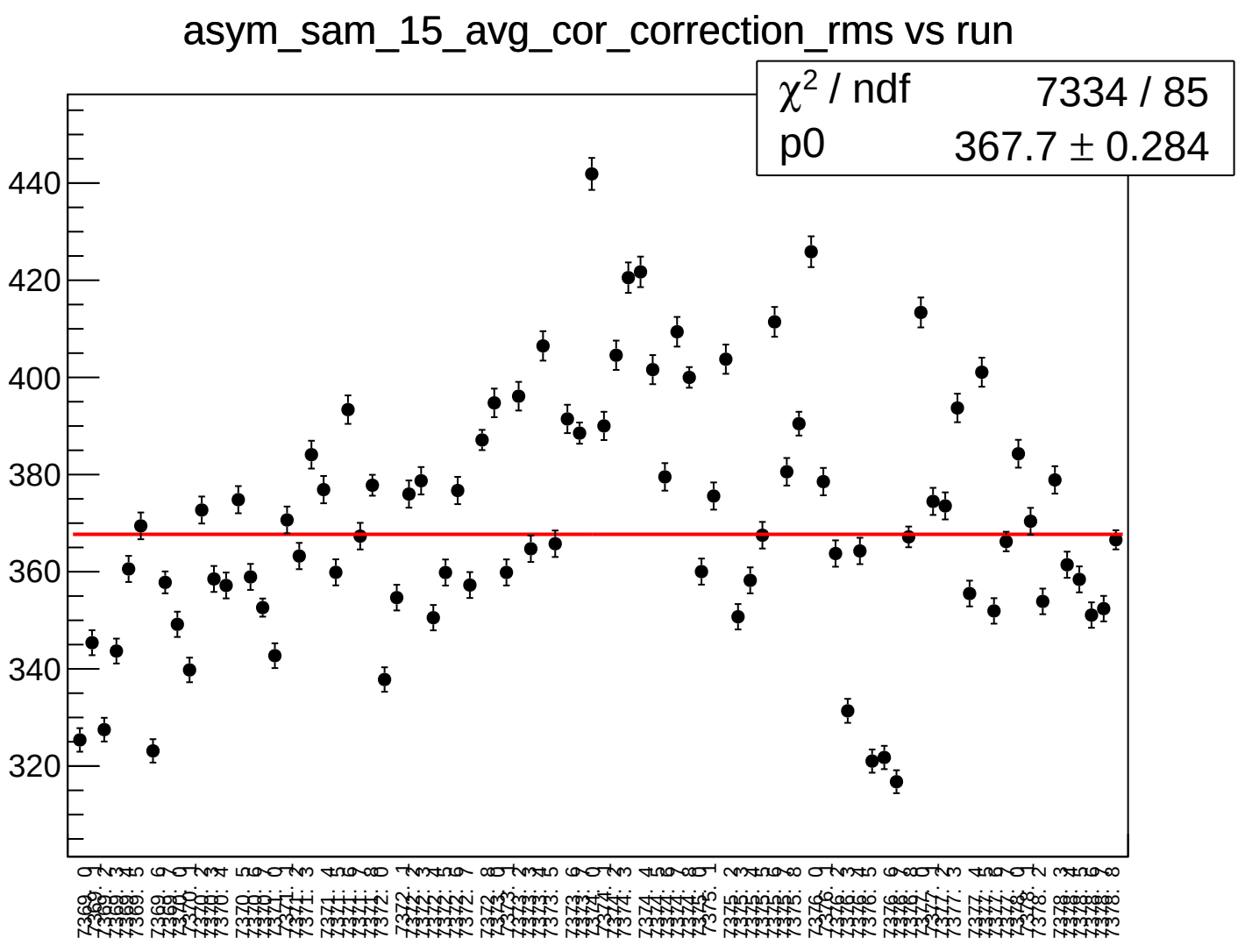

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 7334 / 85
p0 367.7 ± 0.284
440
420
400
380
360
340
320

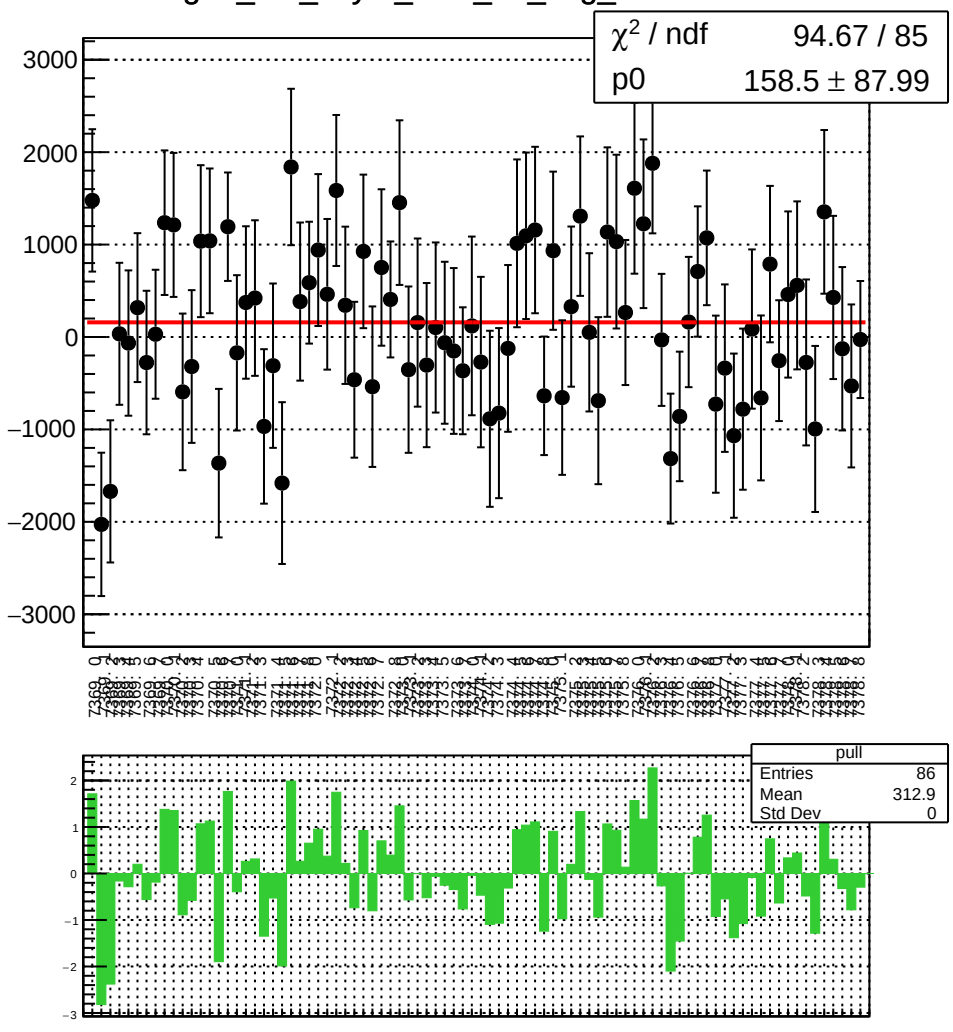

cor_asym_sam_15_avg_mean vs run
χ² / ndf 94.67 / 85
p0 158.5 ± 87.99
pull
Entries 86
Mean 312.9
Std Dev 0

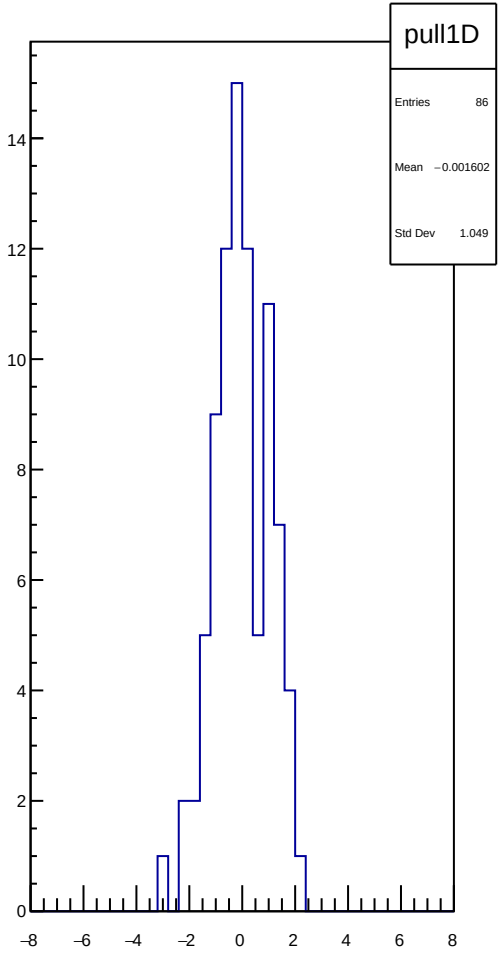

pull1D
Entries 86
Mean −0.001602
Std Dev 1.049

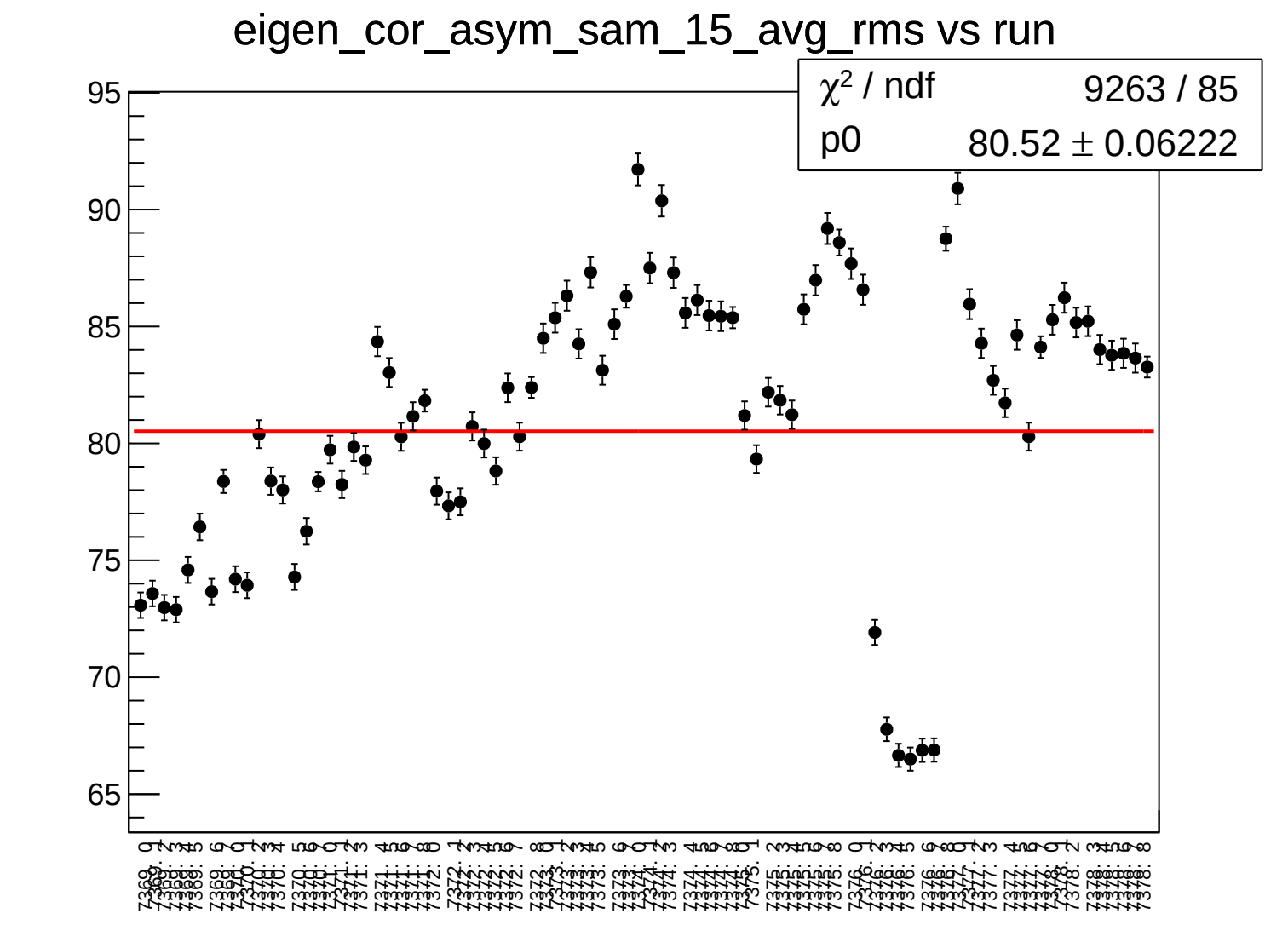

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 9263 / 85
p0 80.52 ± 0.06222
95
90
85
80
75
70
65

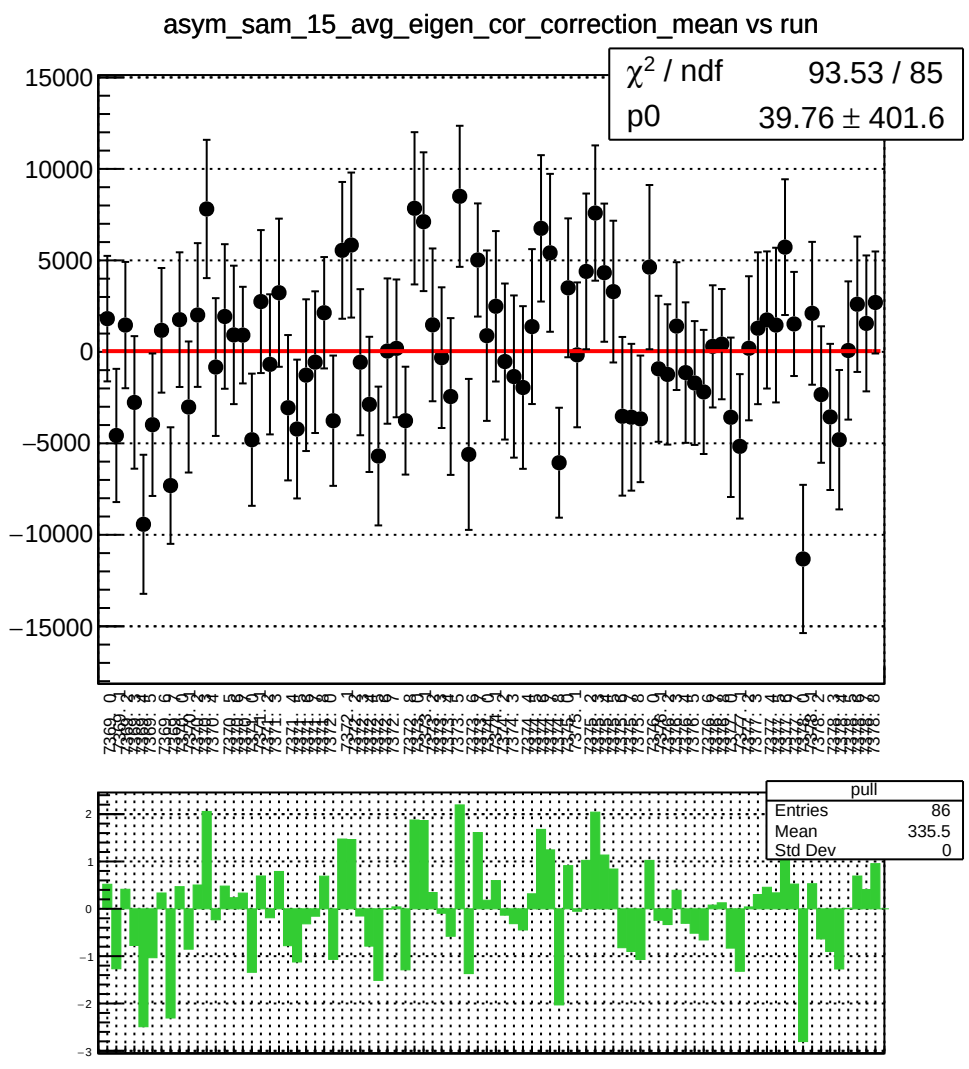

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 93.53 / 85
p0 39.76 ± 401.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 335.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.005396
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

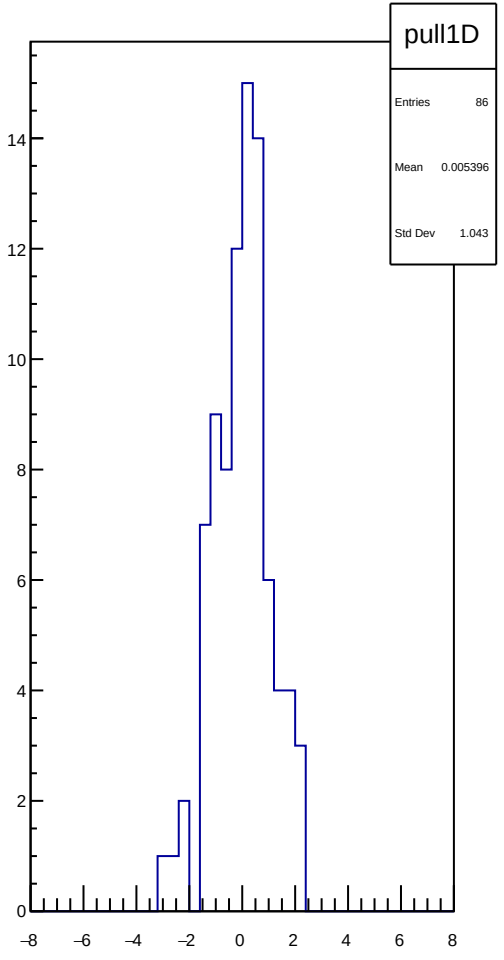

asym_sam_15_avg_cor_correction_rms vs run
χ^2 / ndf 7334 / 85
p0 367.7 ± 0.284
440
420
400
380
360
340
320

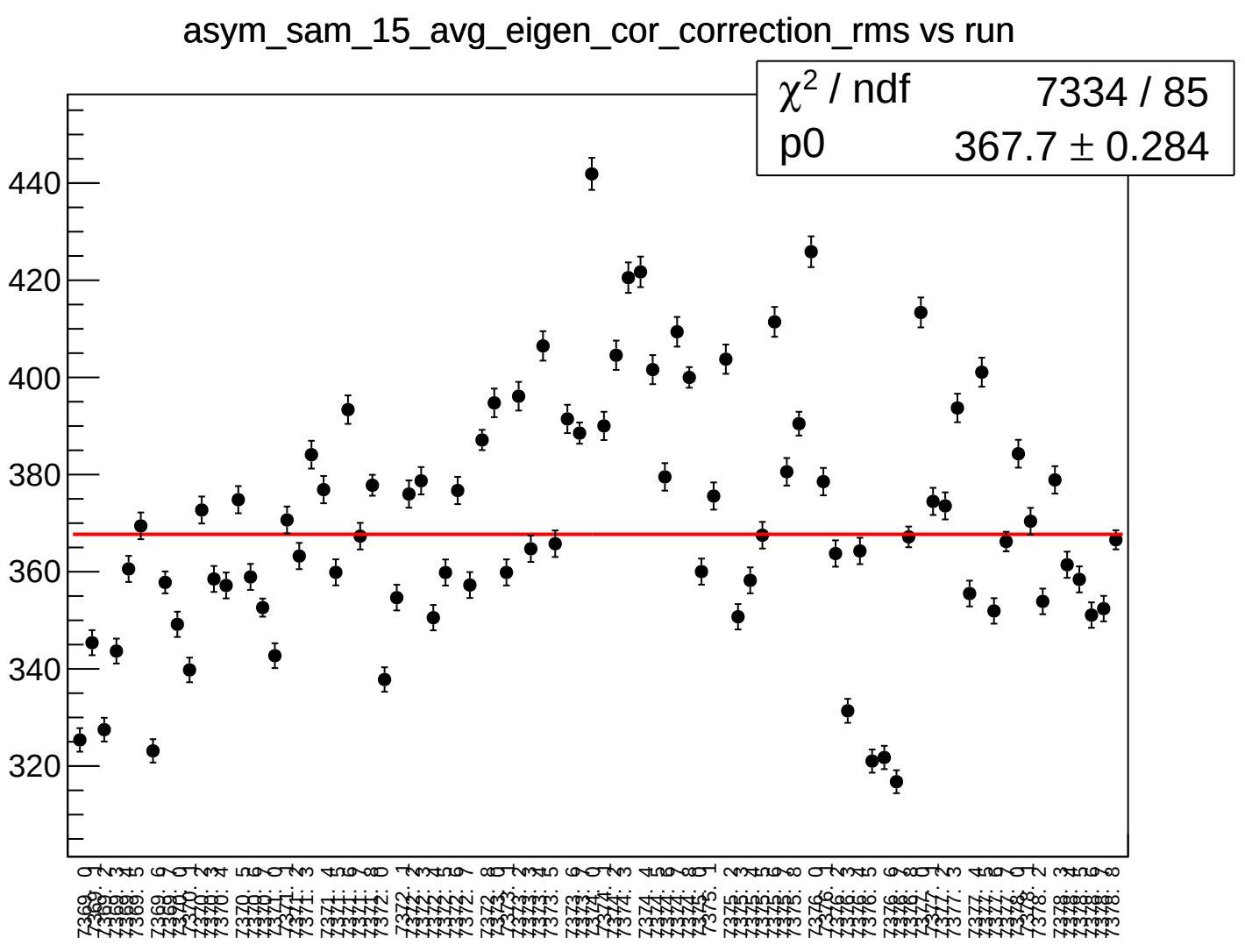

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 94.67 / 85
p0 158.5 ± 87.99
pull
Entries 86
Mean 312.9
Std Dev 0

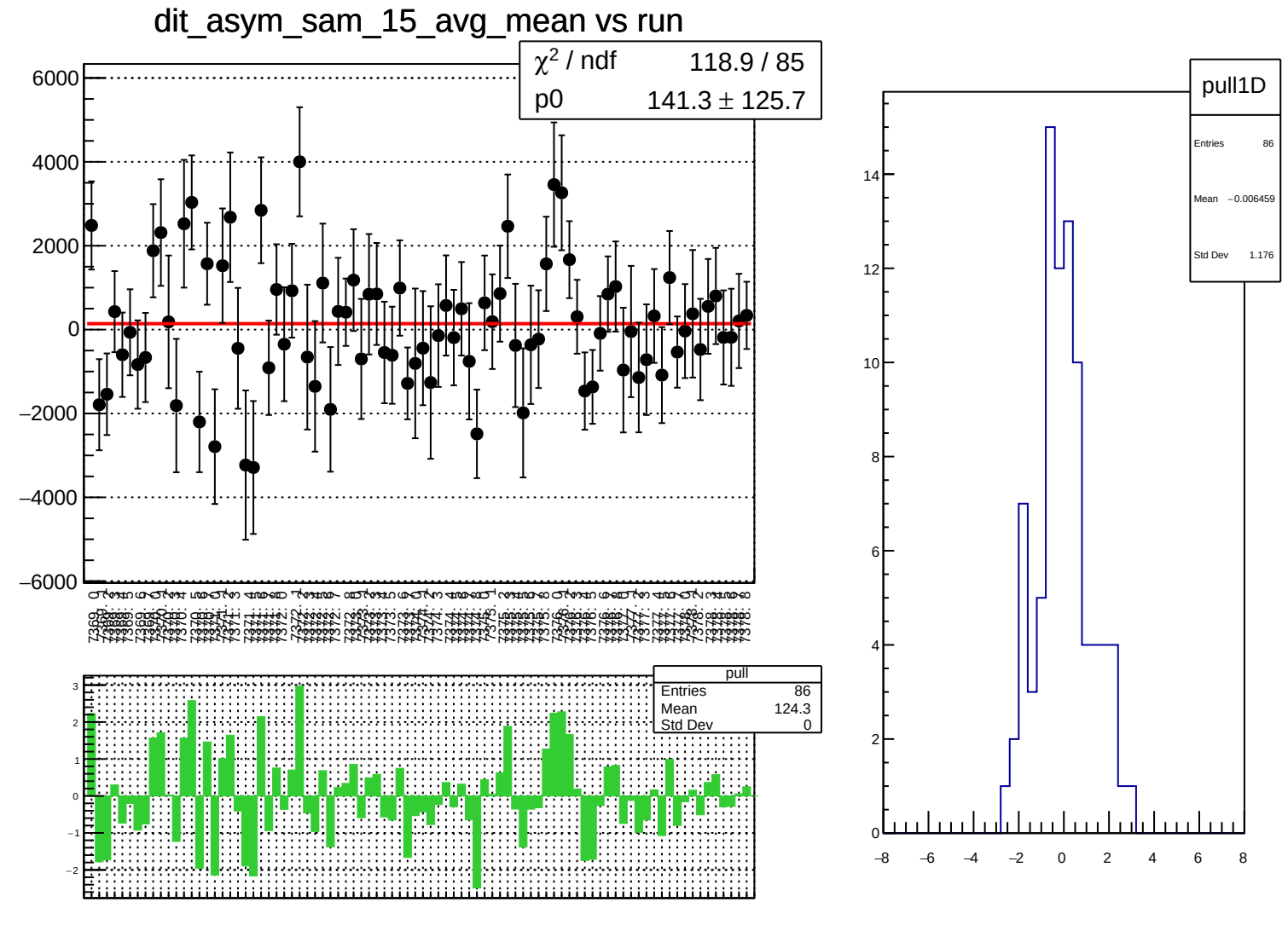

pull1D
Entries 86
Mean −0.001602
Std Dev 1.049

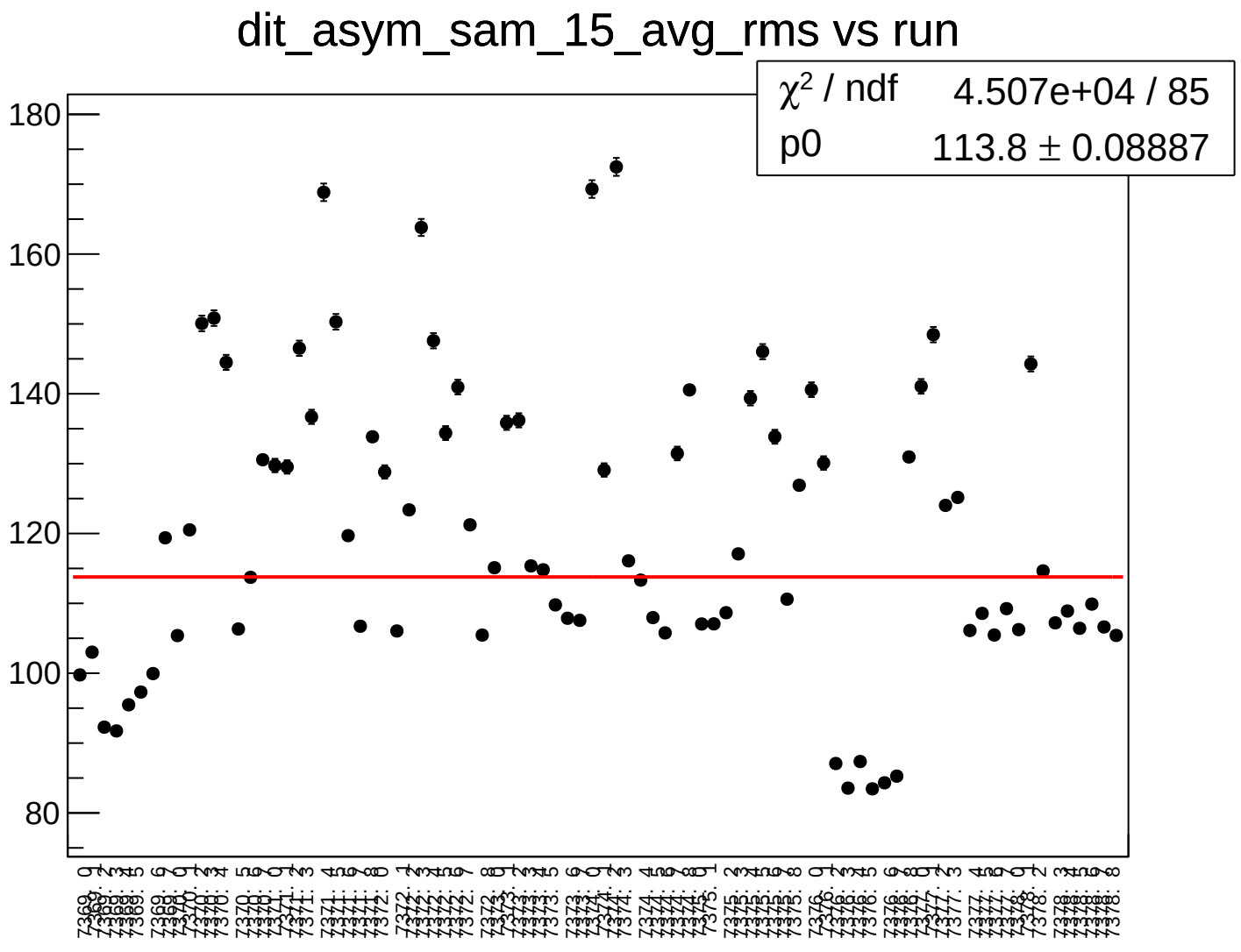

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 9263 / 85
p0 80.52 ± 0.06222
95
90
85
80
75
70
65

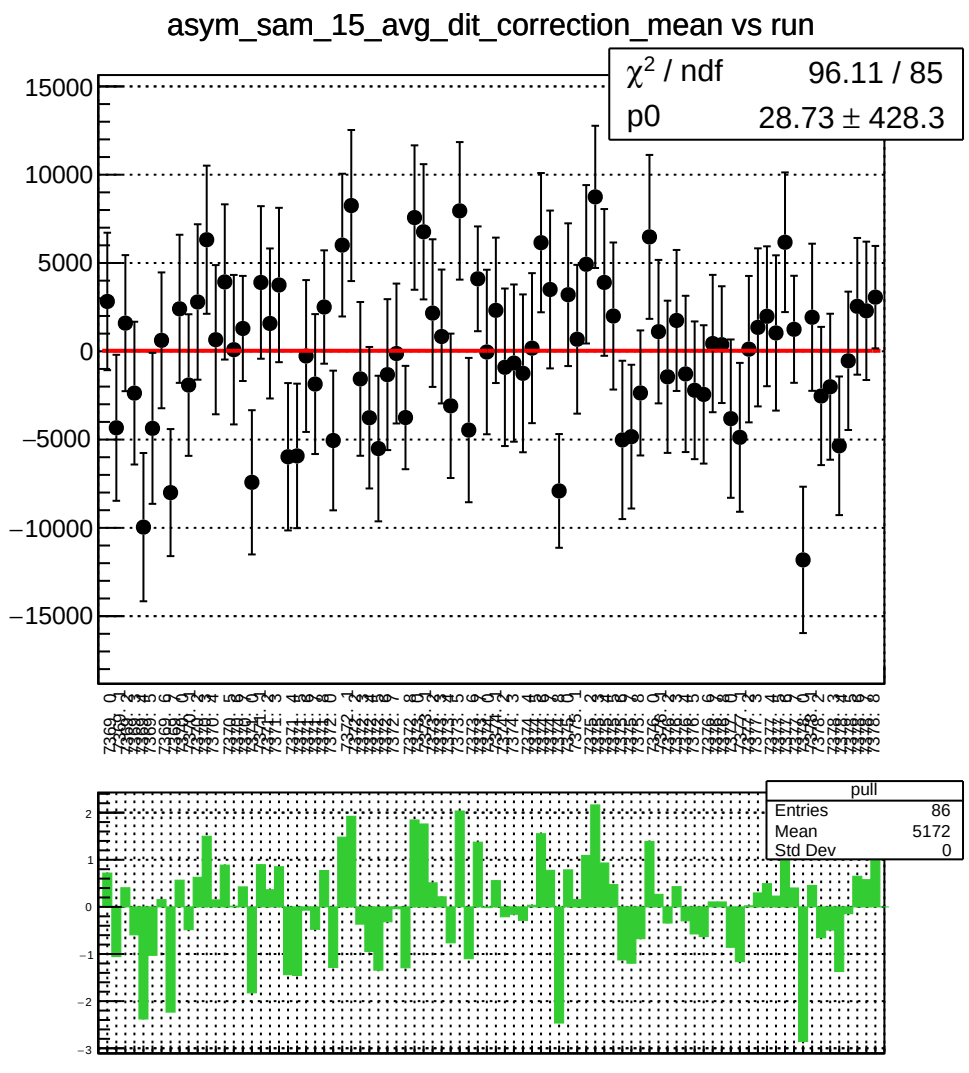

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.53 / 85
p0 39.76 ± 401.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 335.5
Std Dev 0
2
1
0
−1
−2
−3

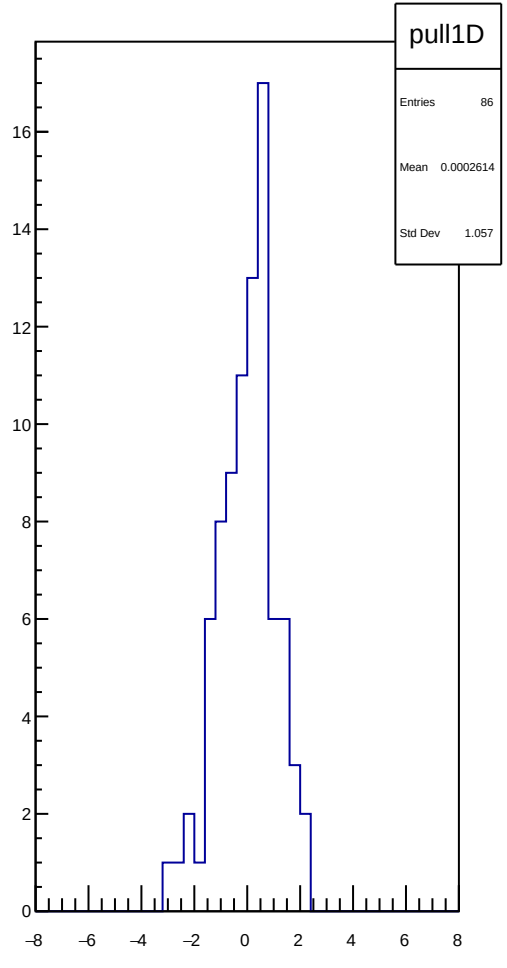

pull1D
Entries 86
Mean 0.005396
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

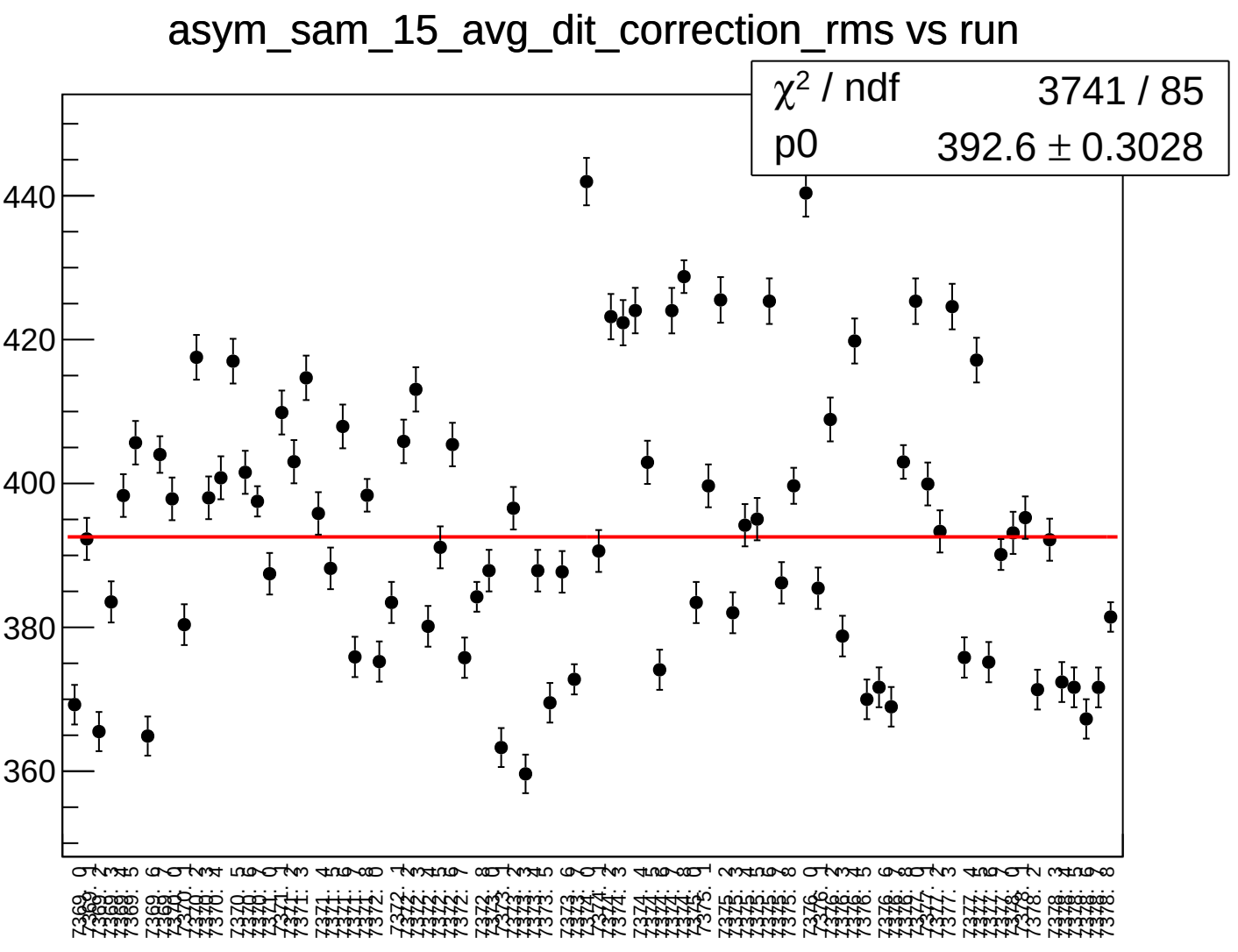

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 7334 / 85
p0 367.7 ± 0.284
440
420
400
380
360
340
320

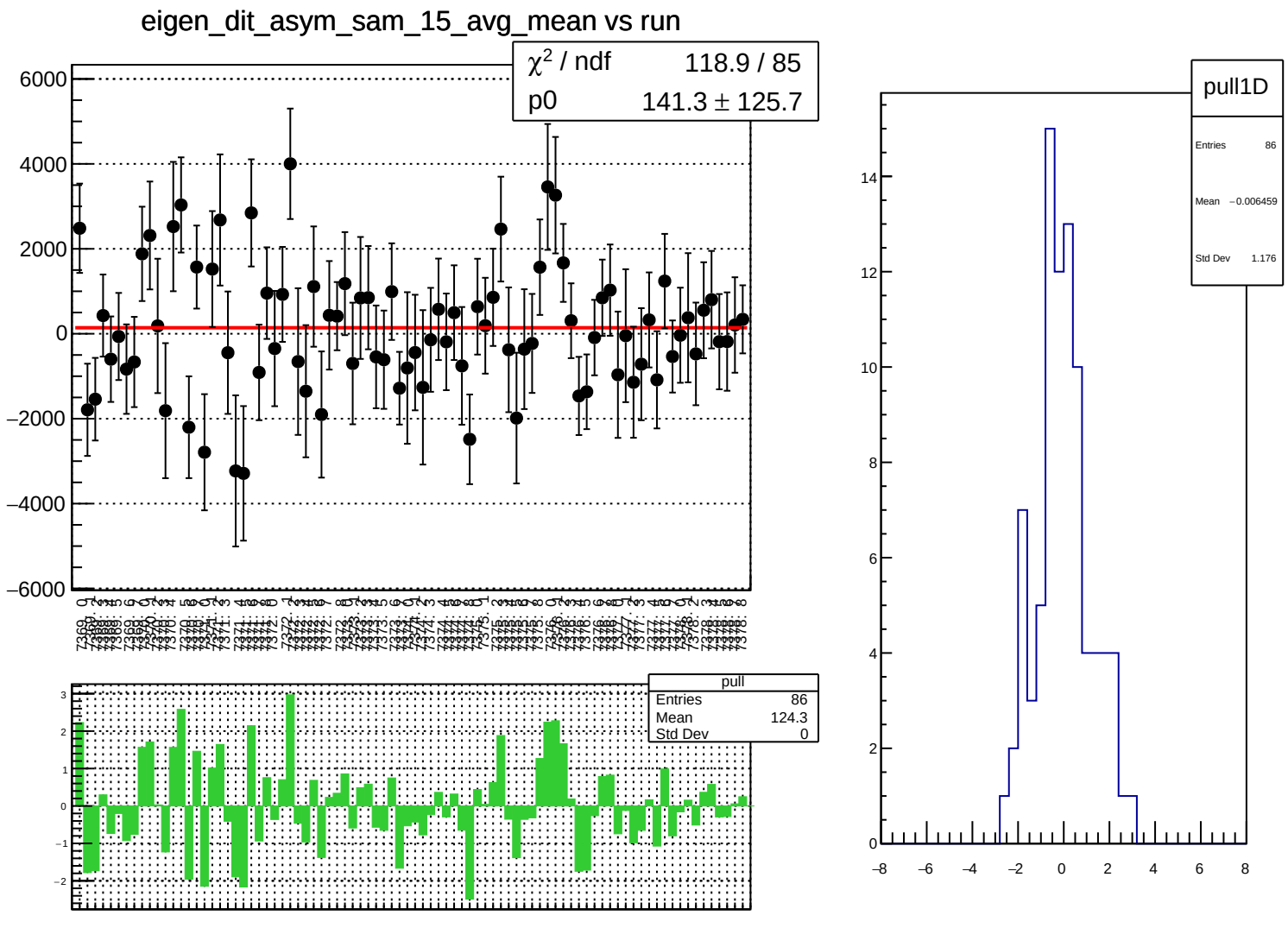

dit_asym_sam_15_avg_mean vs run
χ² / ndf 118.9 / 85
p0 141.3 ± 125.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 124.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.006459
Std Dev 1.176
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

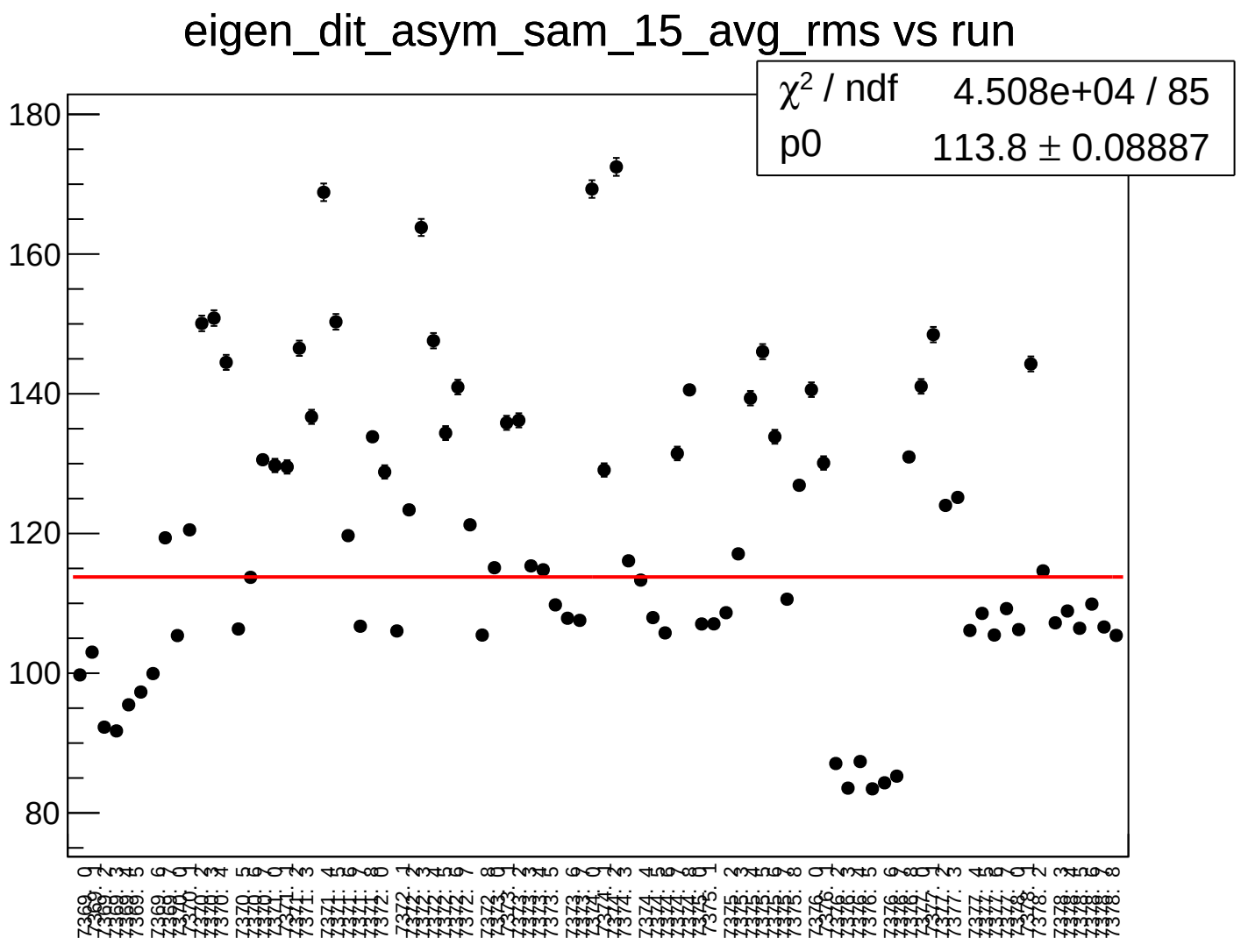

dit_asym_sam_15_avg_rms vs run
χ² / ndf 4.507e+04 / 85
p0 113.8 ± 0.08887
180
160
140
120
100
80

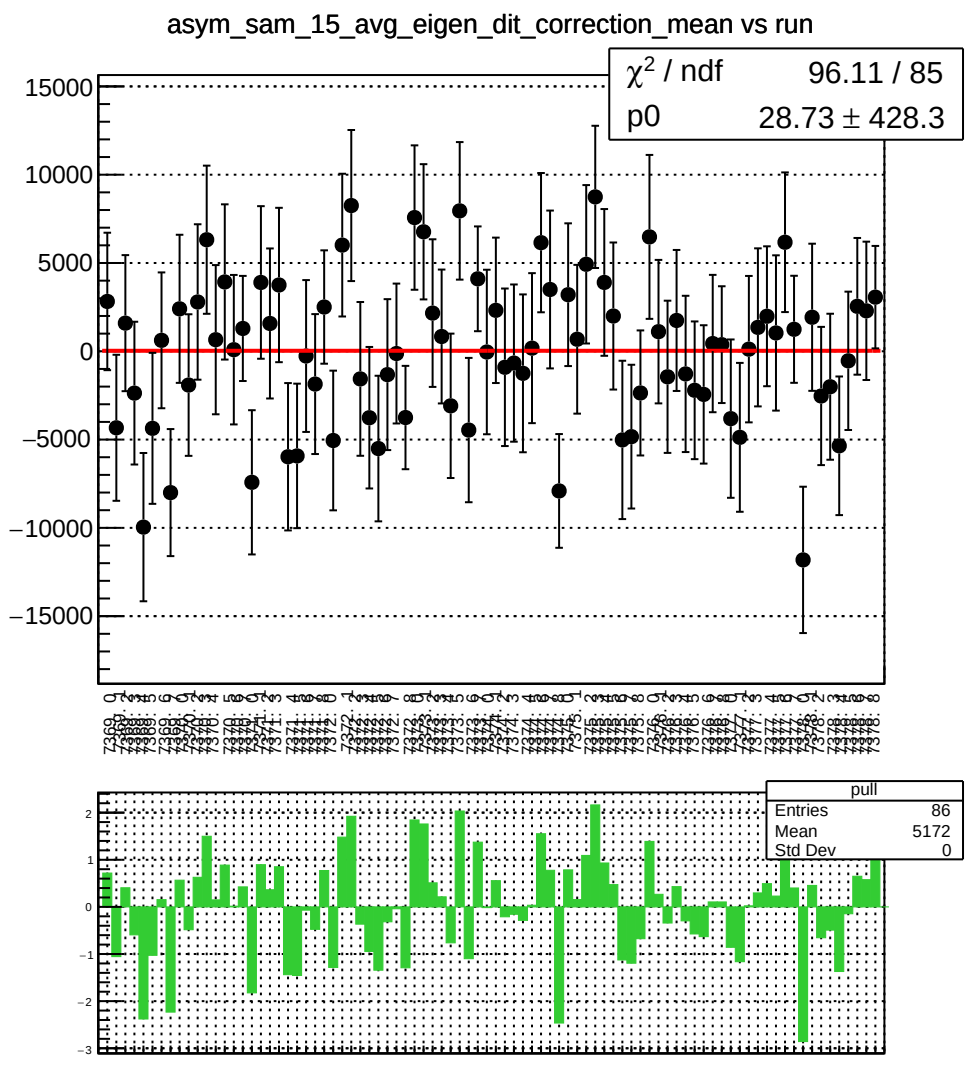

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 96.11 / 85
p0 28.73 ± 428.3
pull
Entries 86
Mean 5172
Std Dev 0

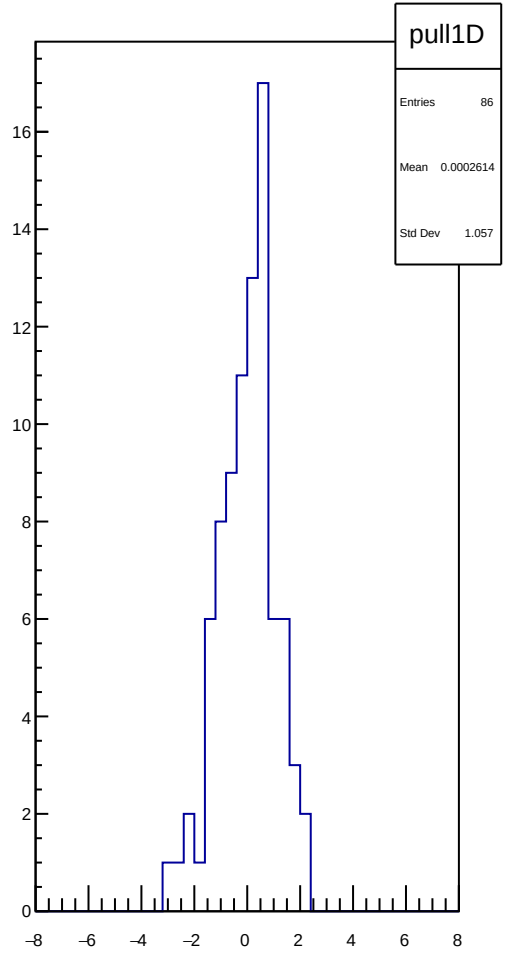

pull1D
Entries 86
Mean 0.0002614
Std Dev 1.057

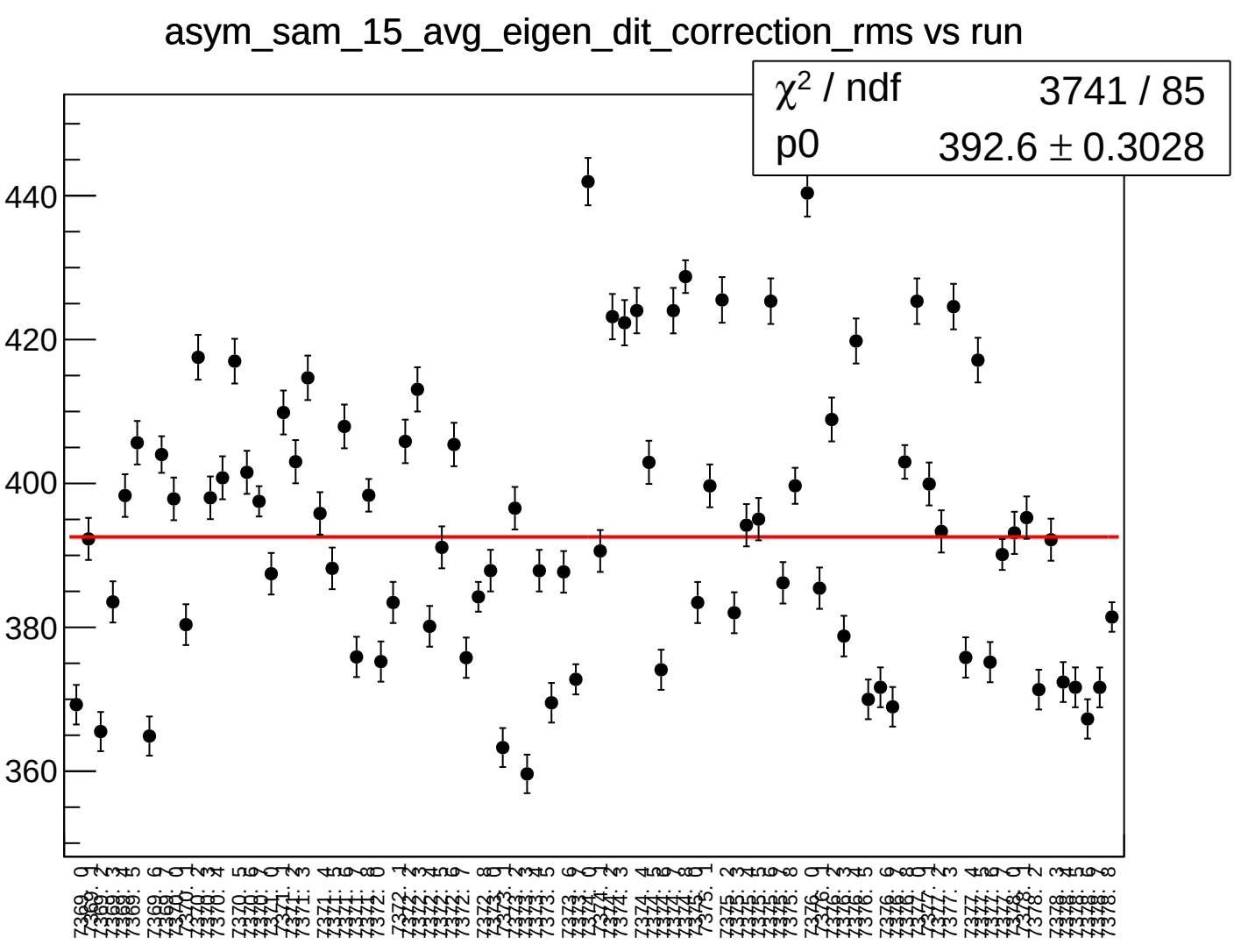

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3741 / 85
p0 392.6 ± 0.3028
440
420
400
380
360

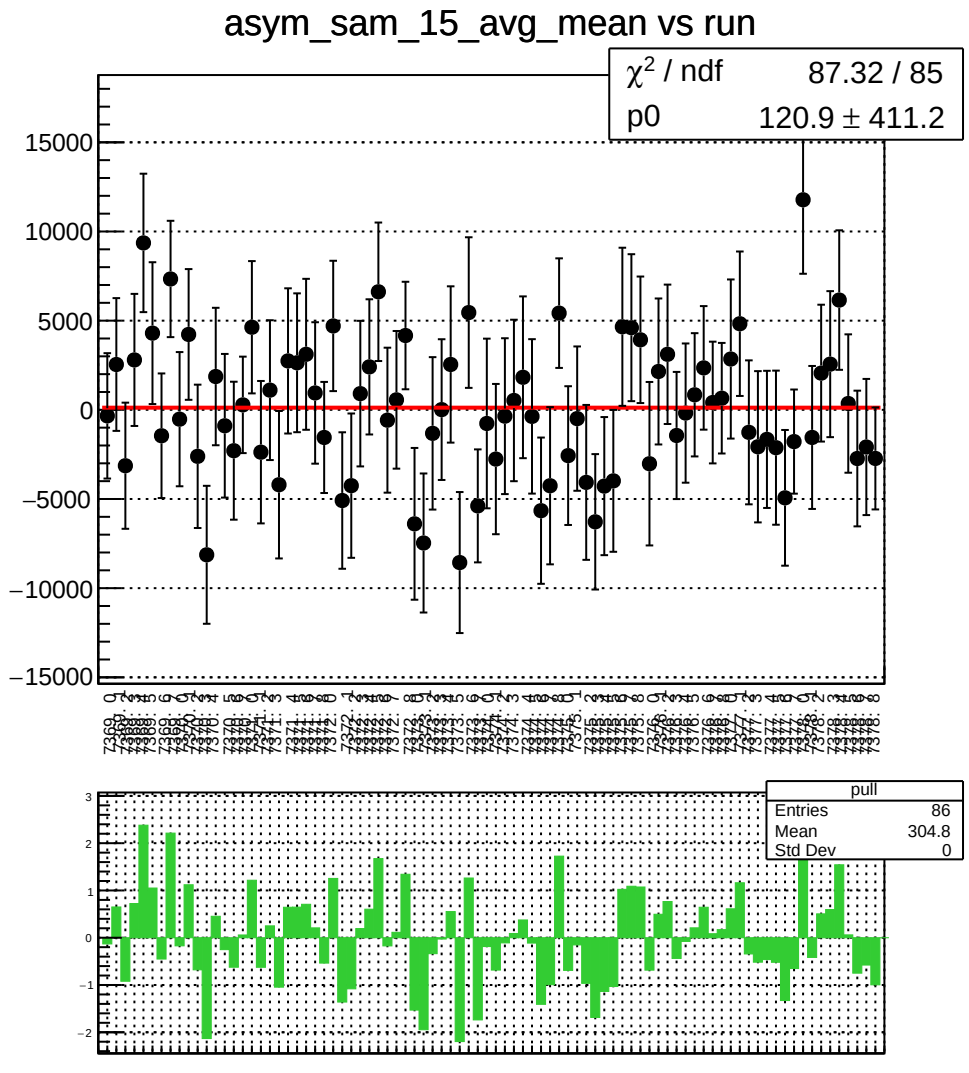

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 118.9 / 85
p0 141.3 ± 125.7
pull
Entries 86
Mean 124.3
Std Dev 0
pull1D
Entries 86
Mean −0.006459
Std Dev 1.176

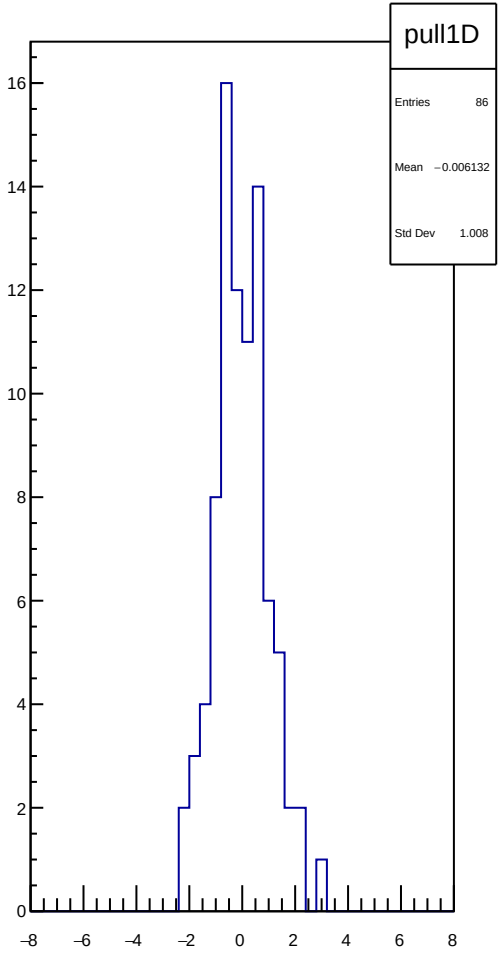

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 4.508e+04 / 85
p0 113.8 ± 0.08887
180
160
140
120
100
80

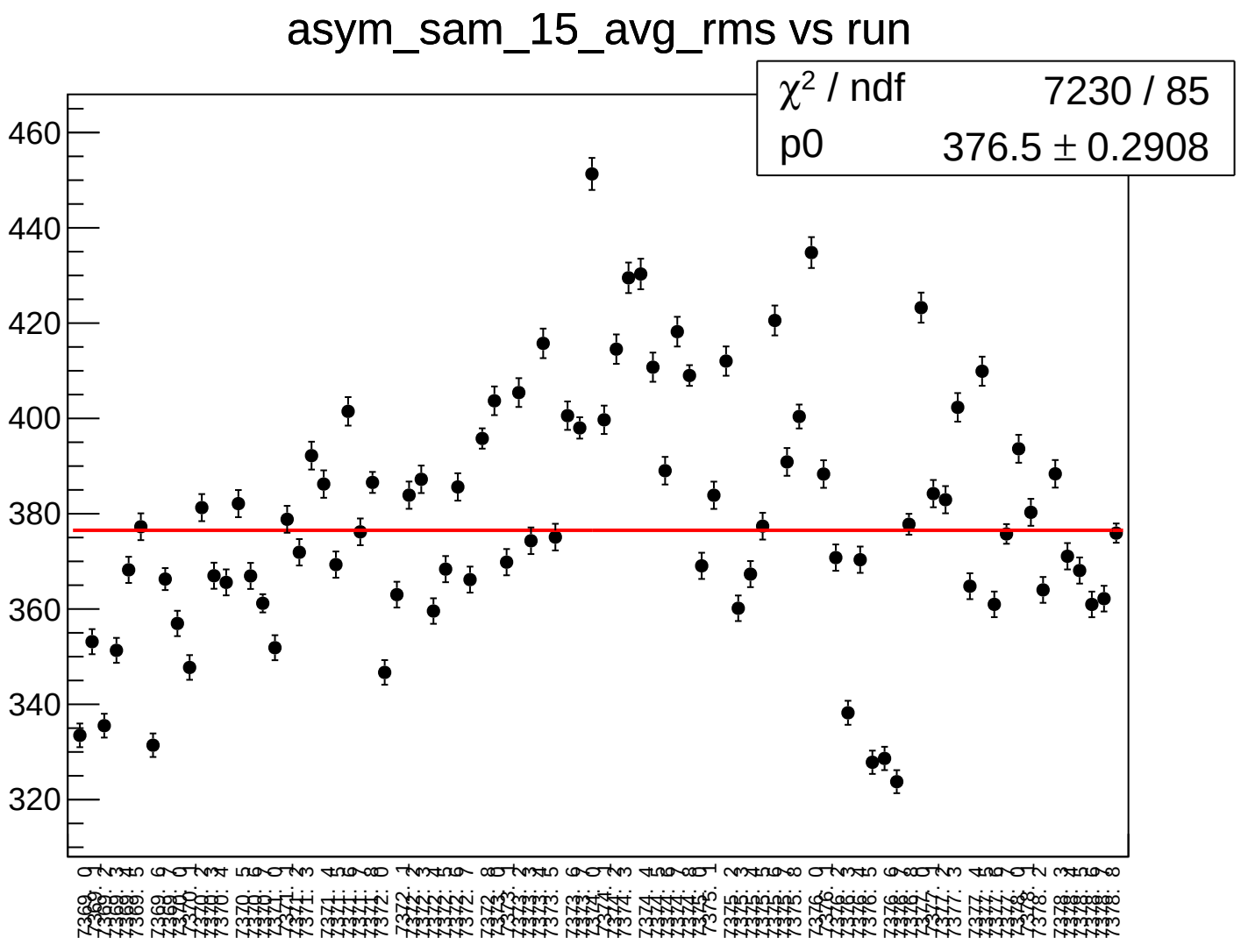

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.11 / 85
p0 28.73 ± 428.3
pull
Entries 86
Mean 5172
Std Dev 0

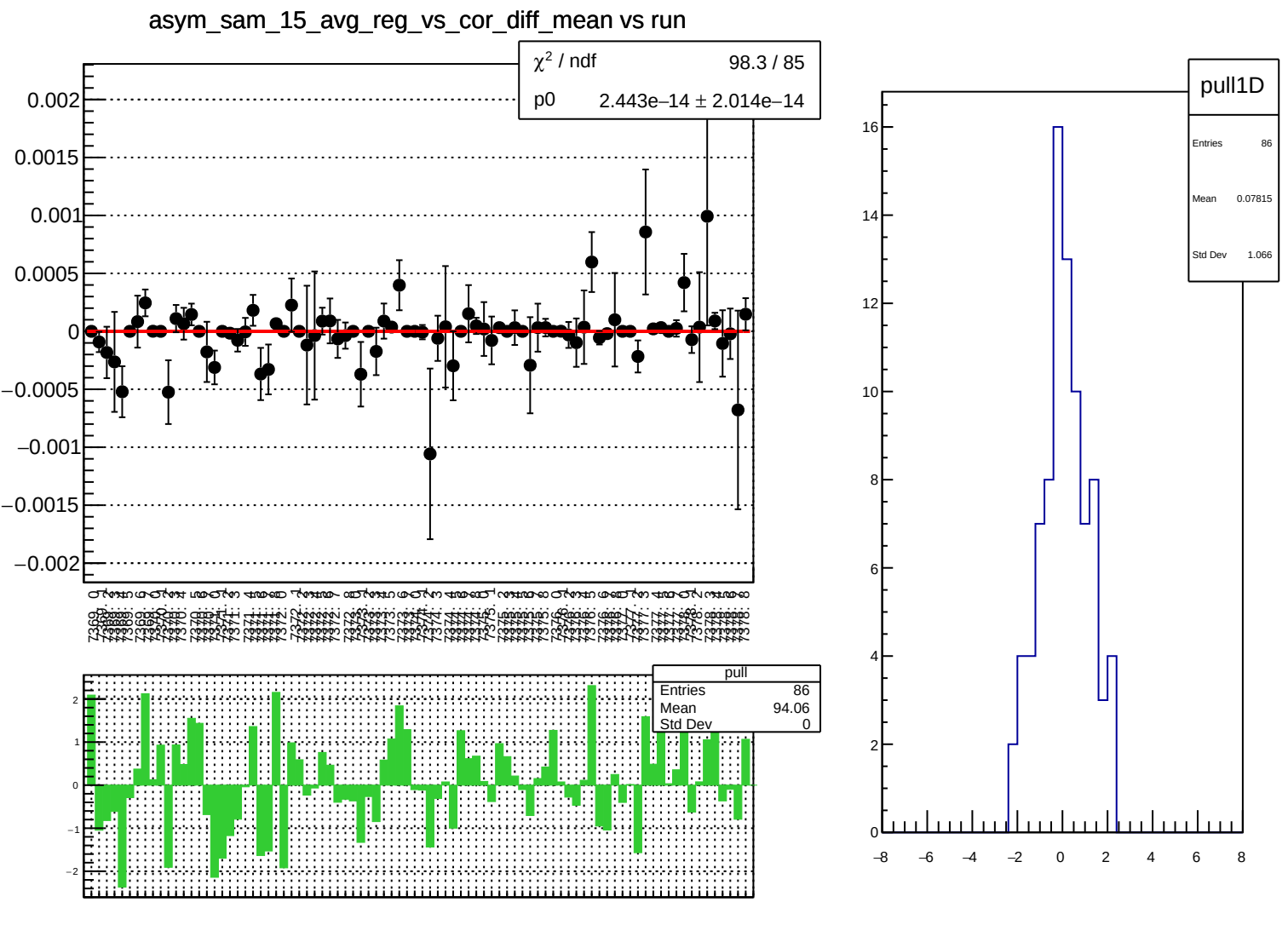

pull1D
Entries 86
Mean 0.0002614
Std Dev 1.057

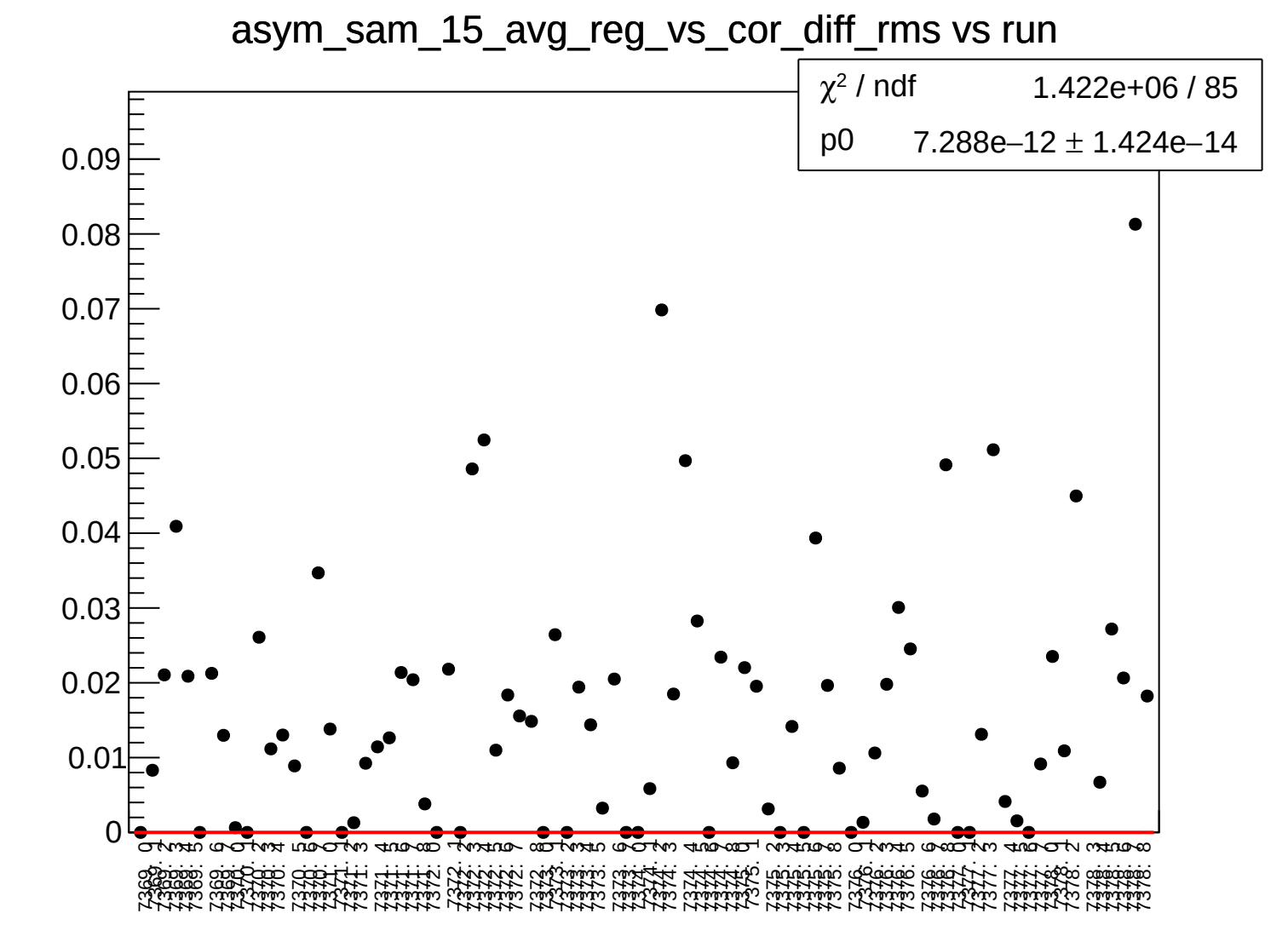

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3741 / 85
p0 392.6 ± 0.3028
440
420
400
380
360

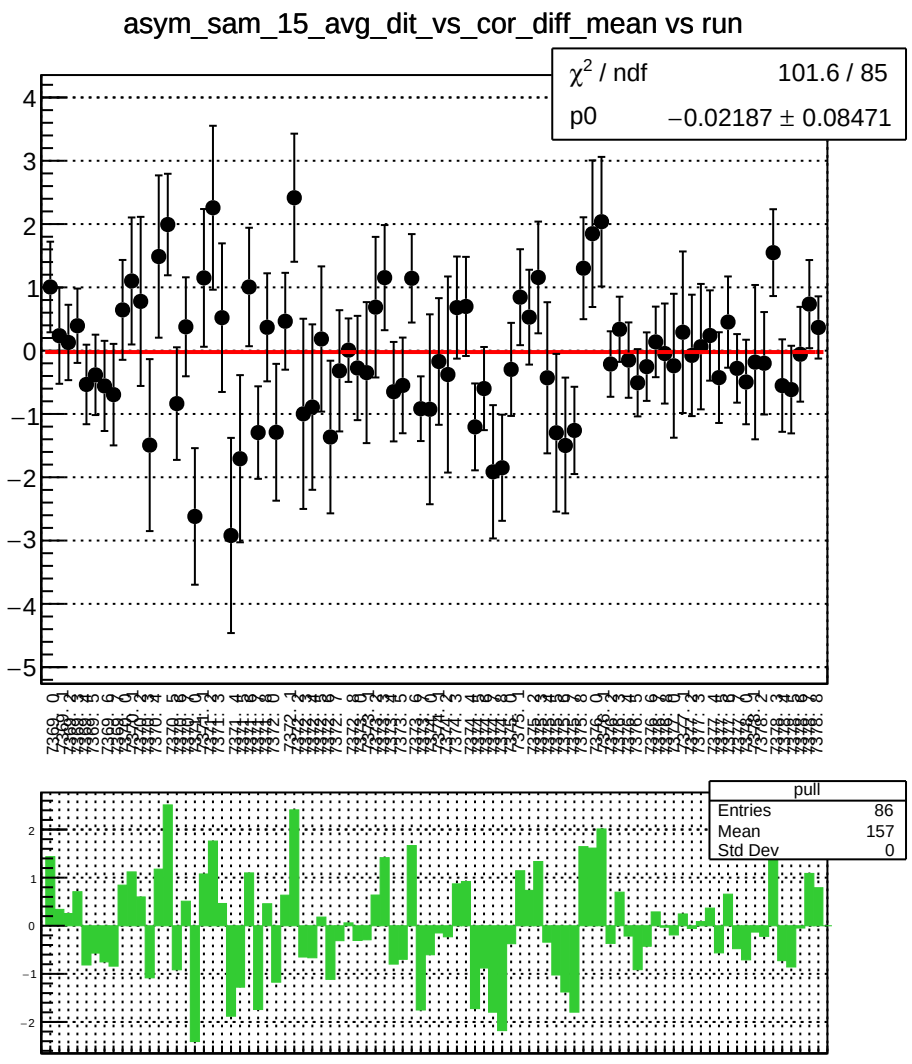

asym_sam_15_avg_mean vs run
χ² / ndf 87.32 / 85
p0 120.9 ± 411.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 304.8
Std Dev 0
3
2
1
0
−1
−2

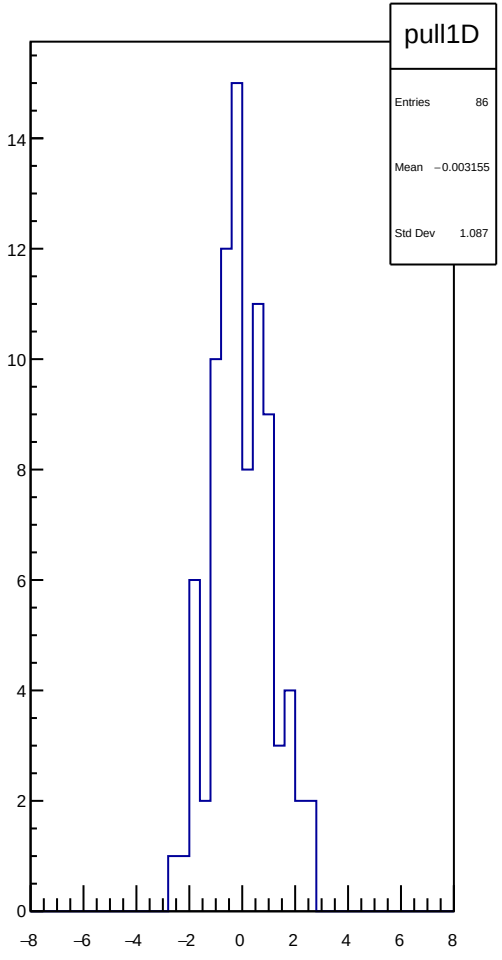

pull1D
Entries 86
Mean −0.006132
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

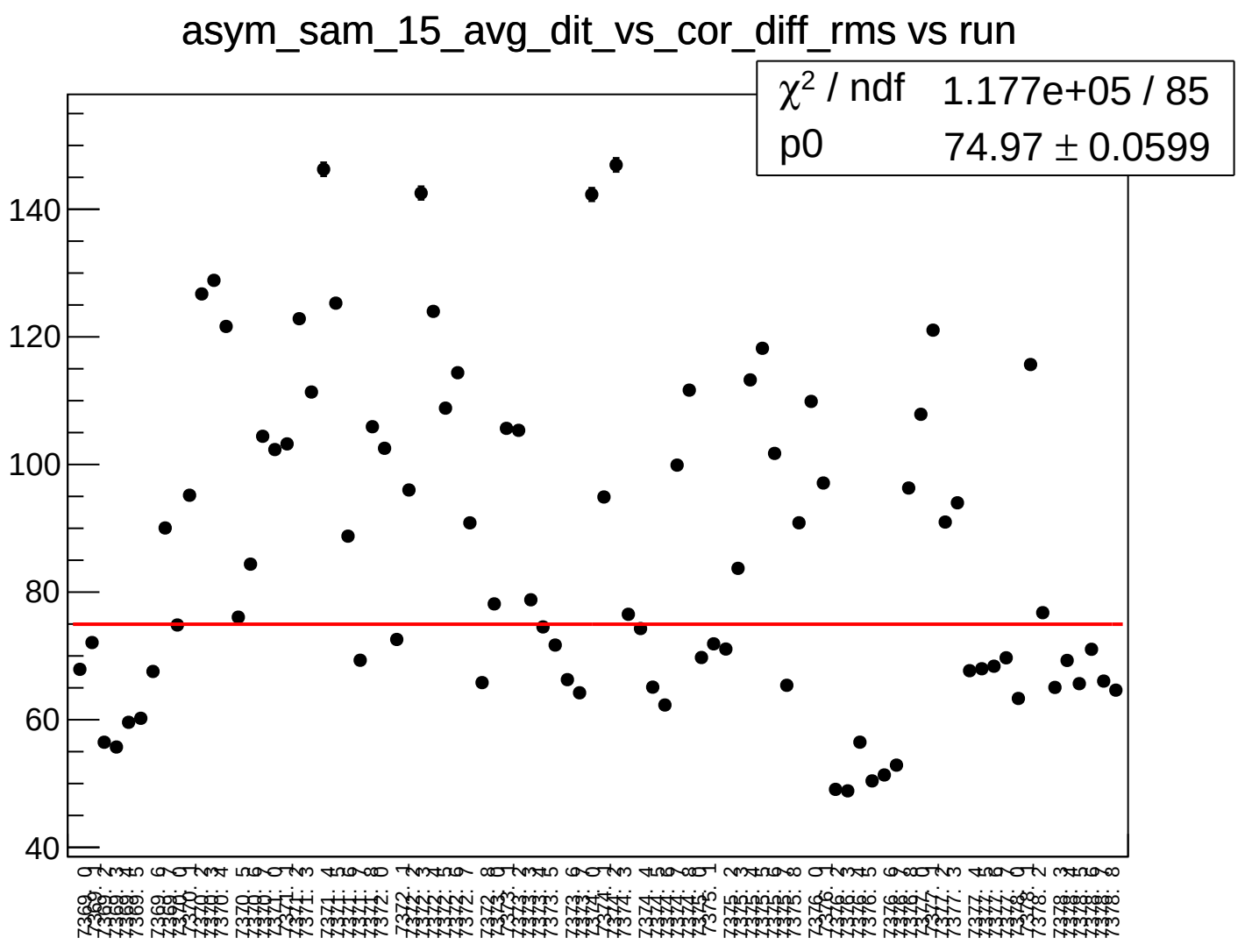

asym_sam_15_avg_rms vs run
χ² / ndf 7230 / 85
p0 376.5 ± 0.2908
460
440
420
400
380
360
340
320

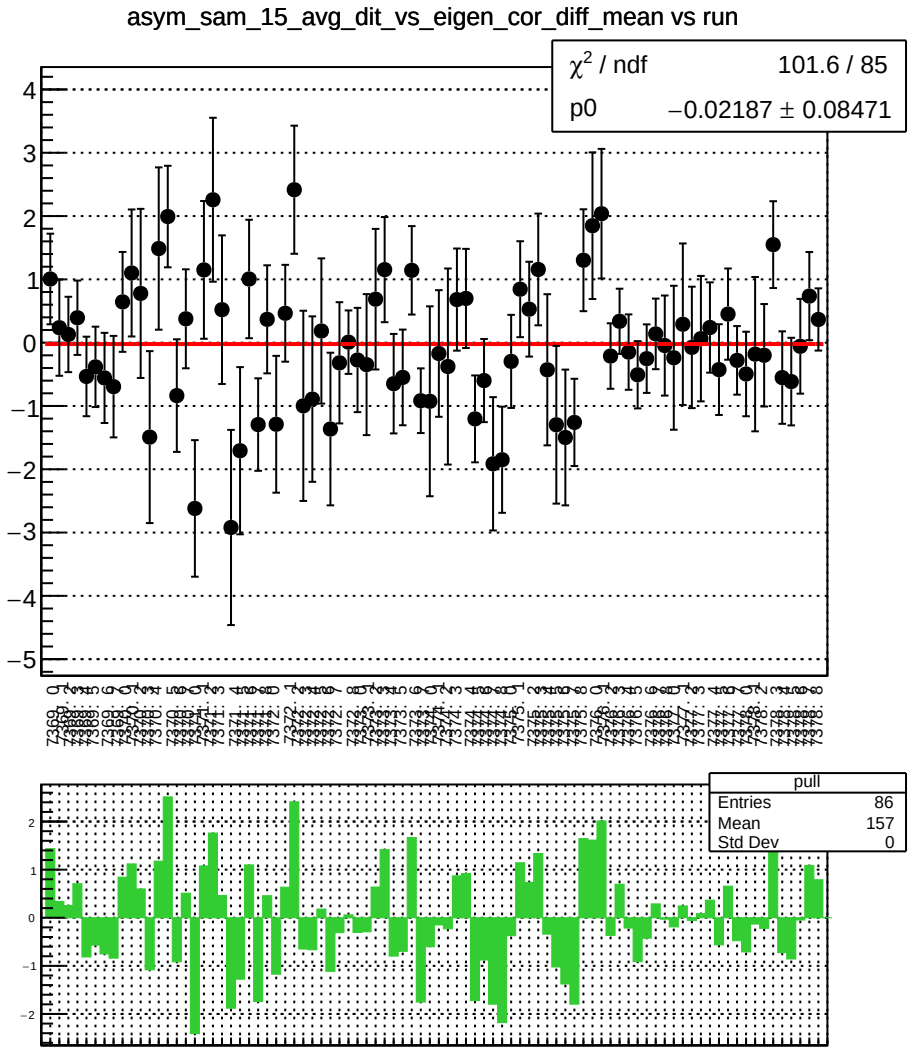

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.3 / 85
p0 2.443e−14 ± 2.014e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 86
Mean 94.06
Std Dev 0
pull1D
Entries 86
Mean 0.07815
Std Dev 1.066

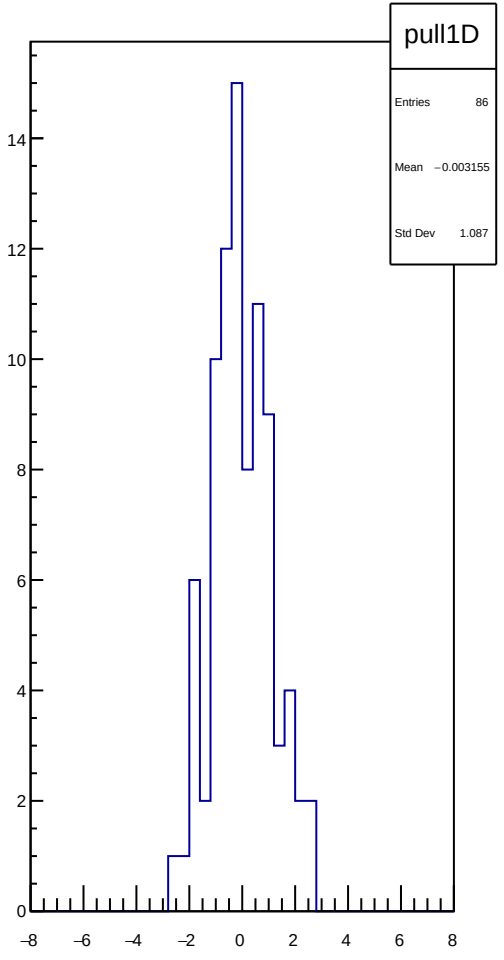

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.422e+06 / 85
p0 7.288e−12 ± 1.424e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

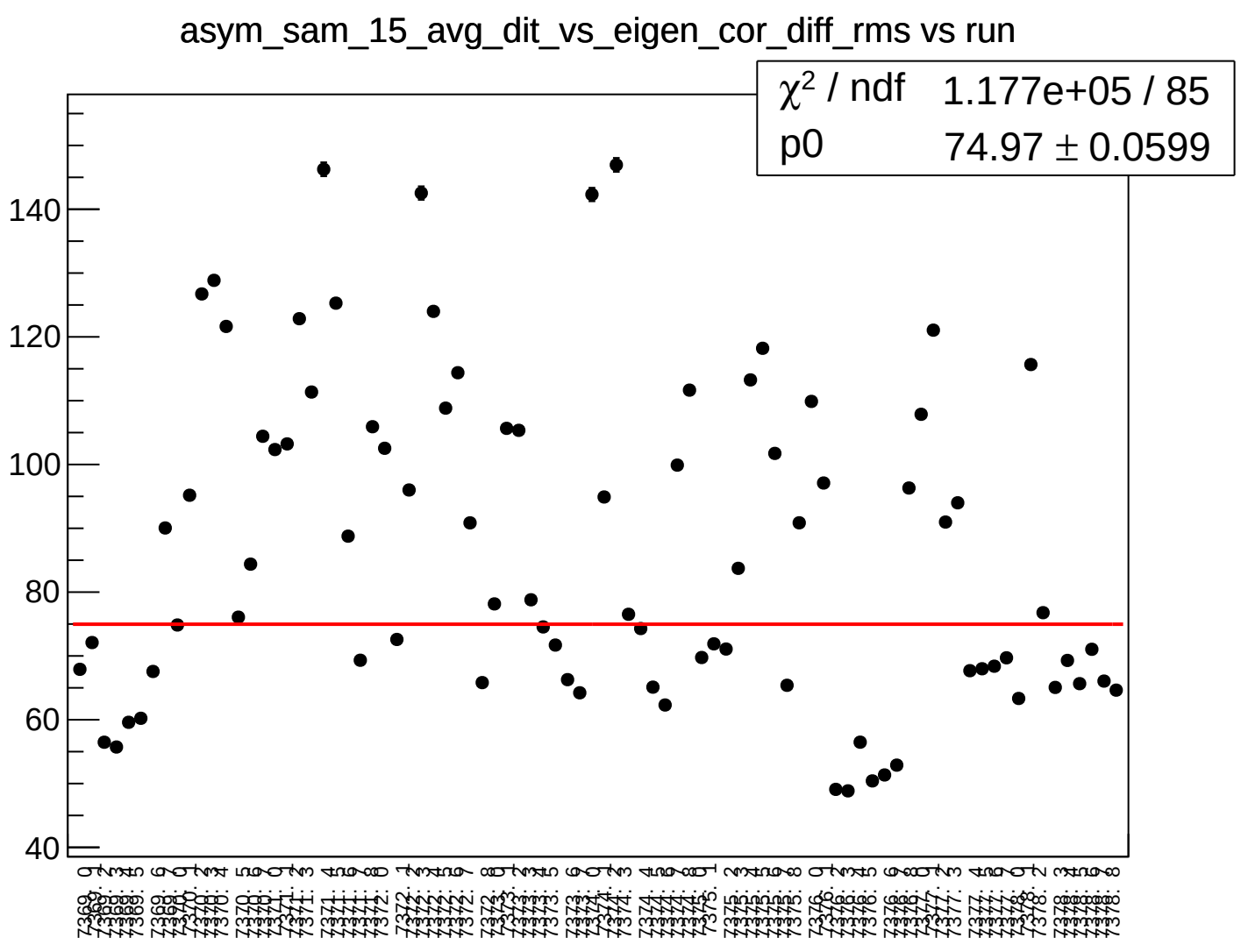

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 85
p0 −0.02187 ± 0.08471
pull
Entries 86
Mean 157
Std Dev 0

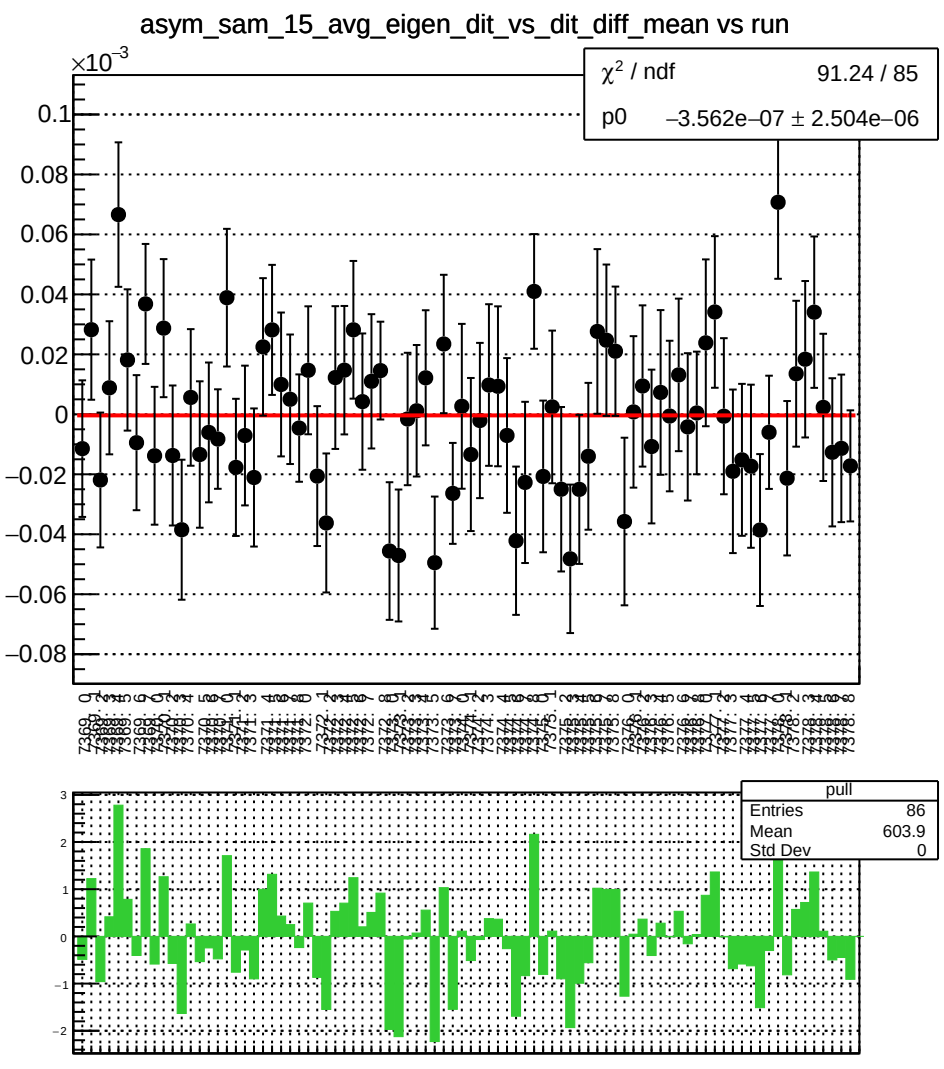

pull1D
Entries 86
Mean −0.003155
Std Dev 1.087

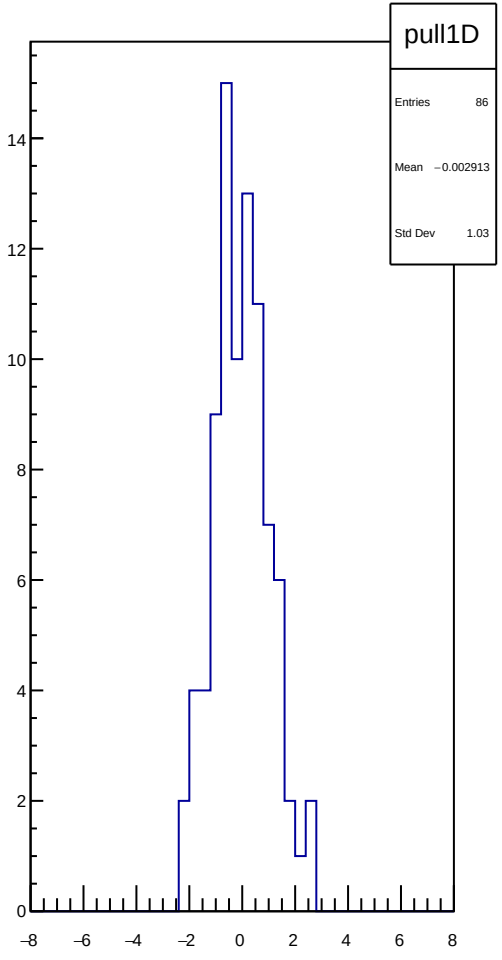

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.177e+05 / 85
p0 74.97 ± 0.0599
140
120
100
80
60
40

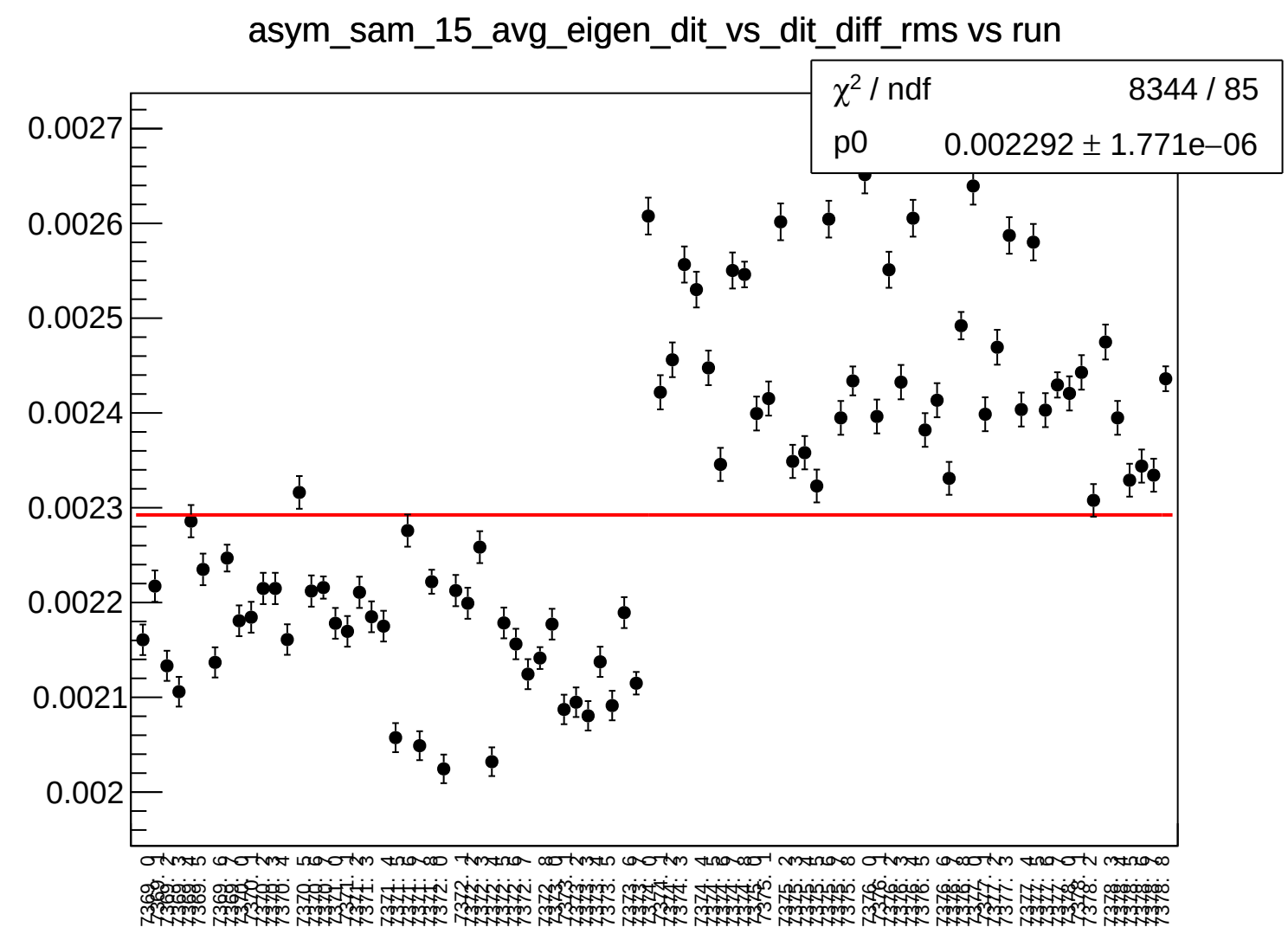

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.6 / 85
p0 −0.02187 ± 0.08471
pull
Entries 86
Mean 157
Std Dev 0

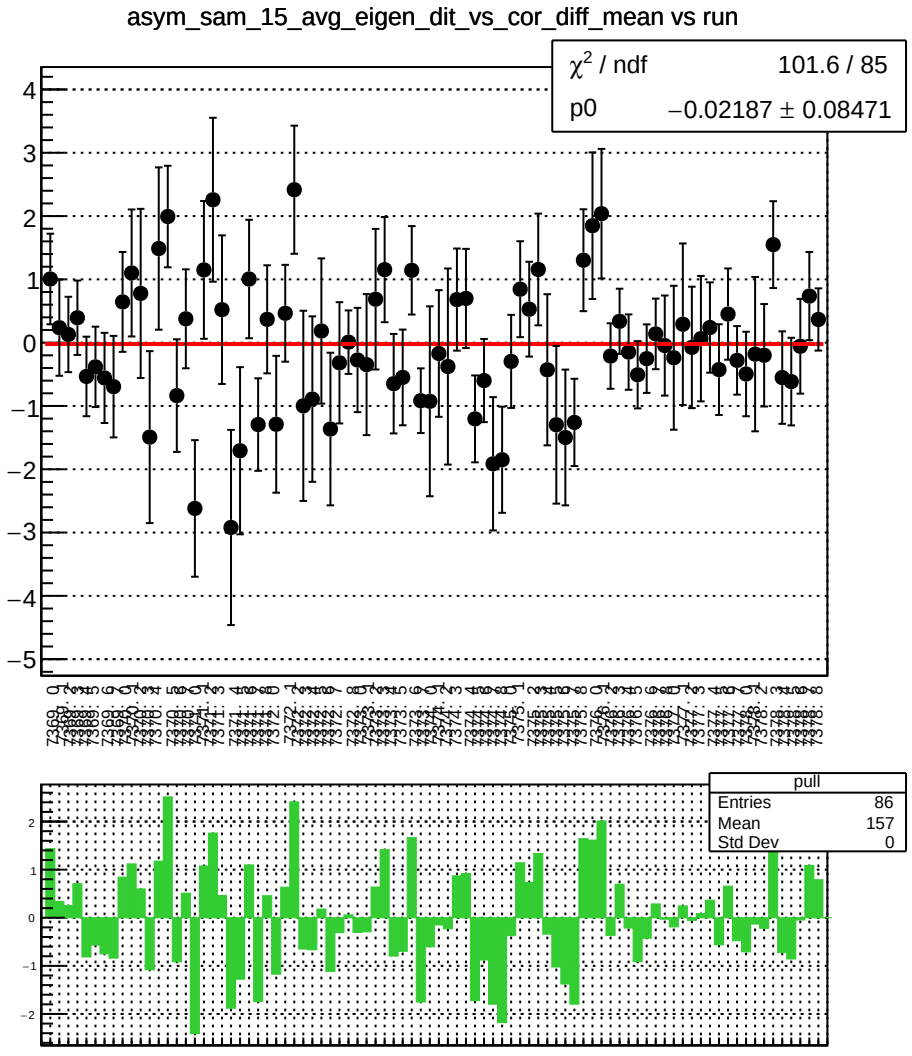

pull1D
Entries 86
Mean −0.003155
Std Dev 1.087

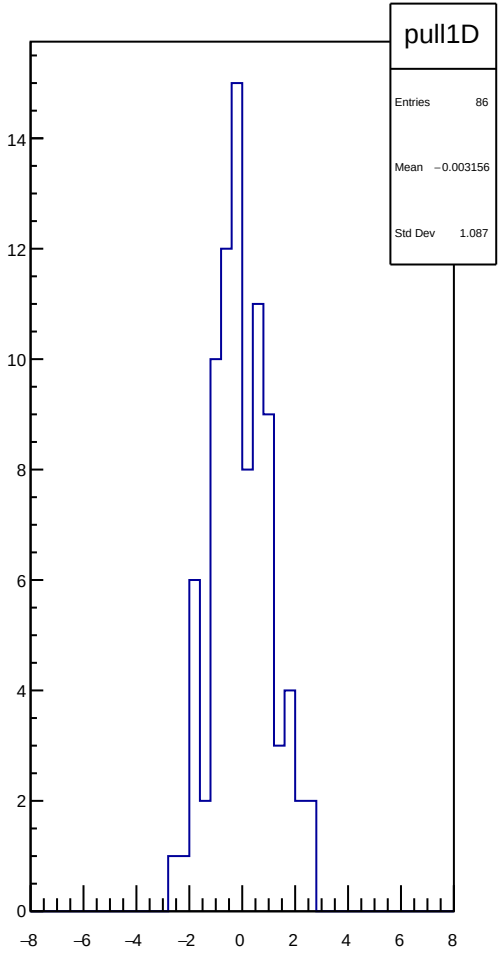

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.177e+05 / 85
p0 74.97 ± 0.0599
140
120
100
80
60
40

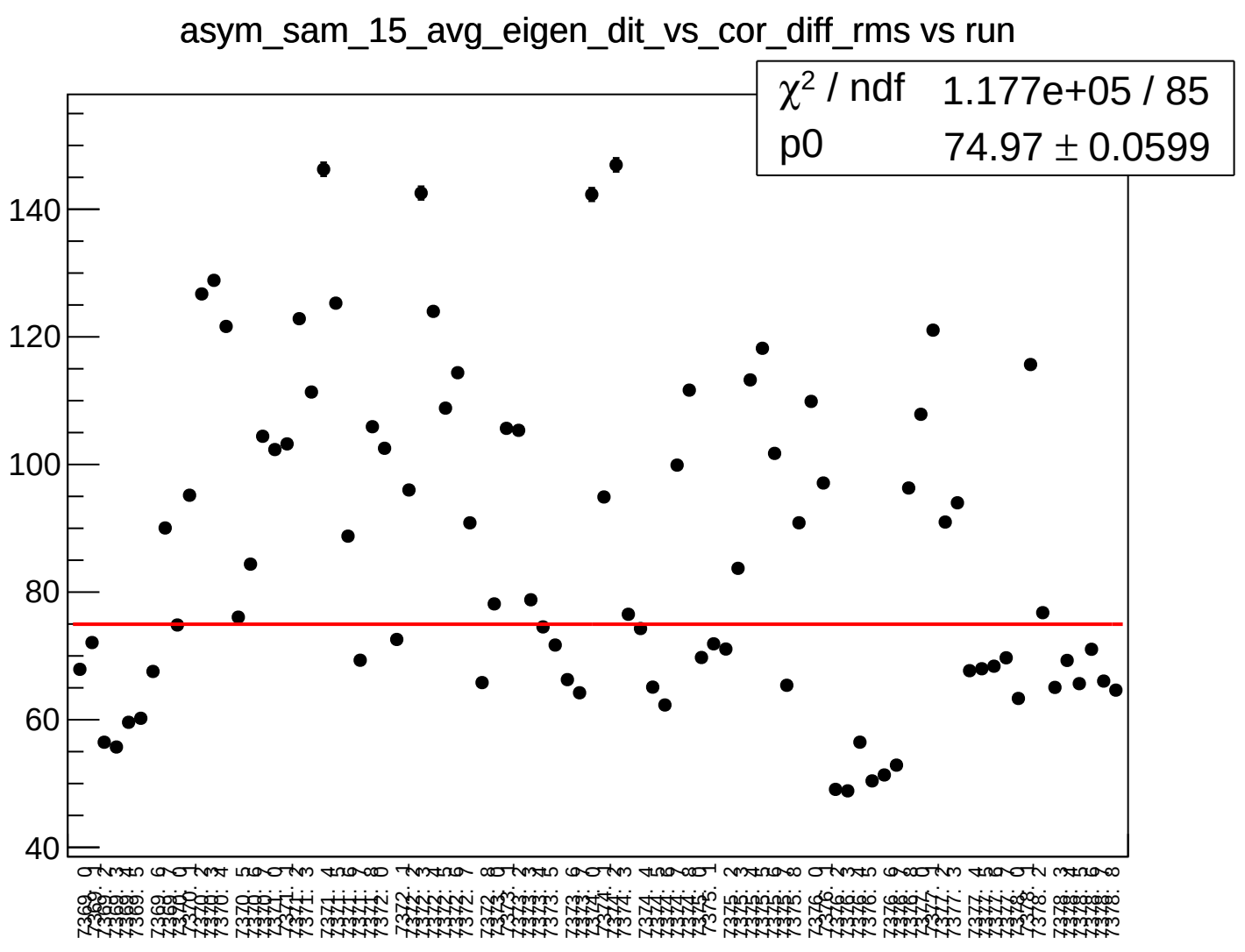

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.24 / 85
p0 −3.562e−07 ± 2.504e−06
pull
Entries 86
Mean 603.9
Std Dev 0

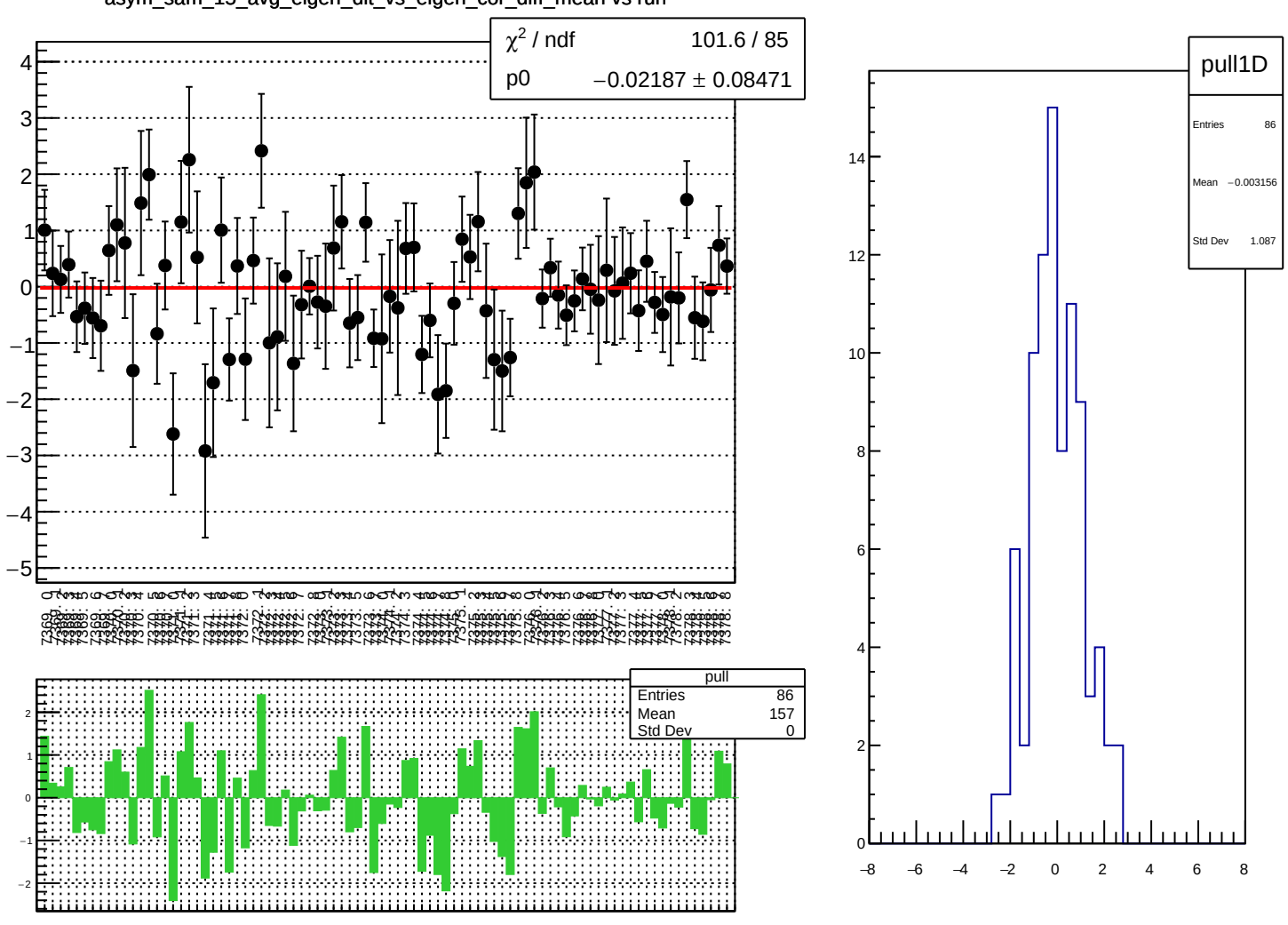

pull1D
Entries 86
Mean −0.002913
Std Dev 1.03

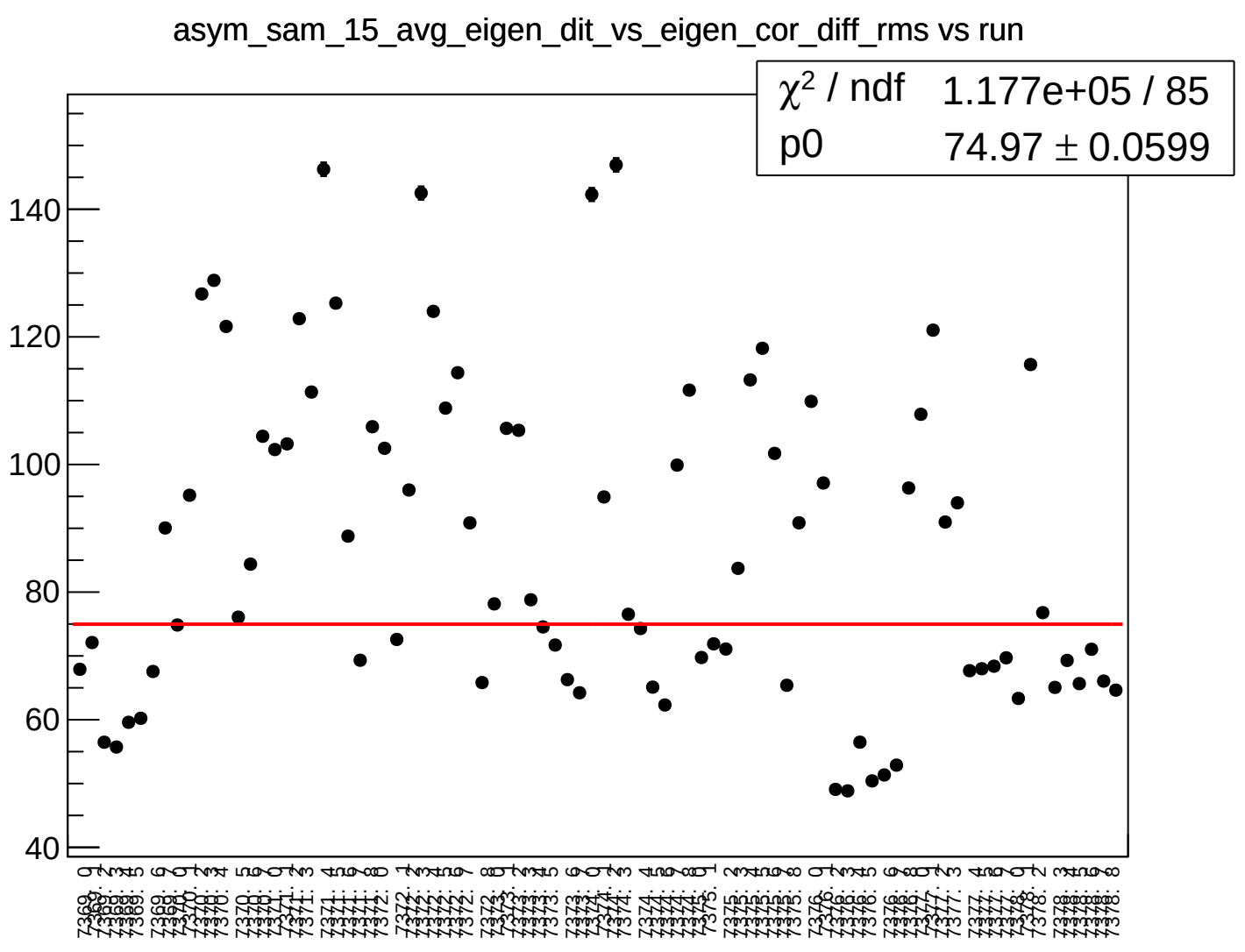

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8344 / 85
p0 0.002292 ± 1.771e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

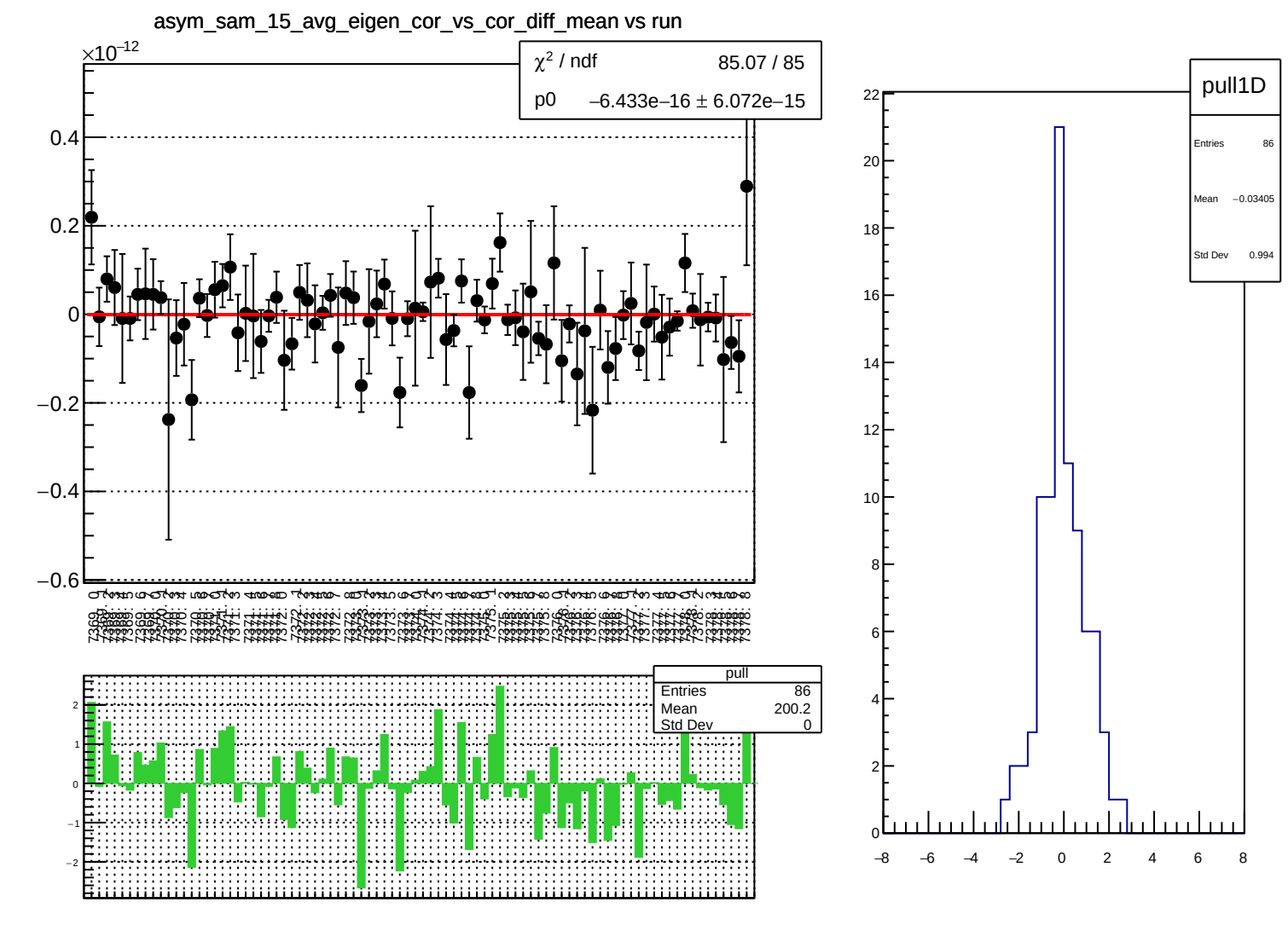

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 85
p0 −0.02187 ± 0.08471
pull
Entries 86
Mean 157
Std Dev 0

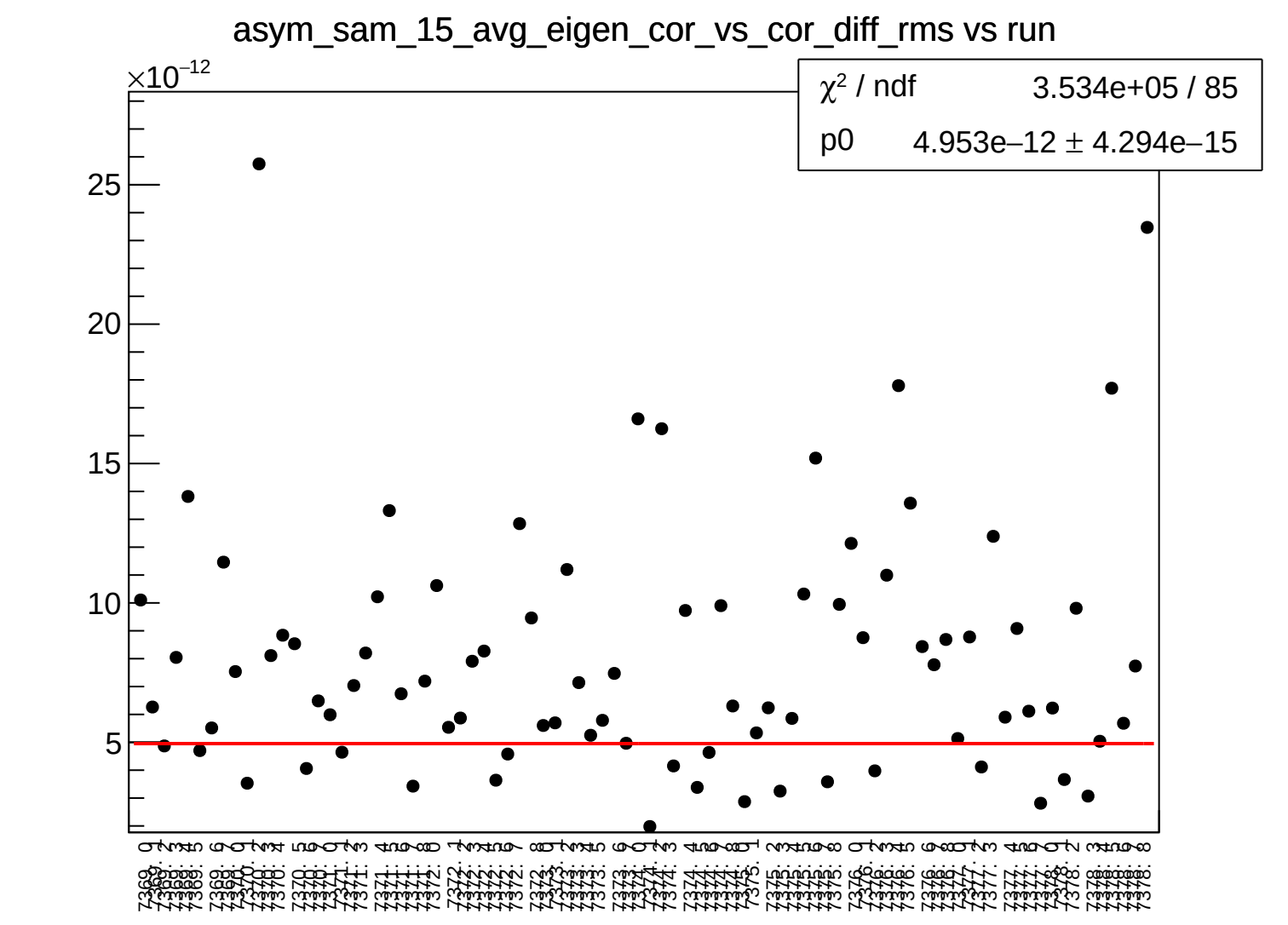

pull1D
Entries 86
Mean −0.003156
Std Dev 1.087

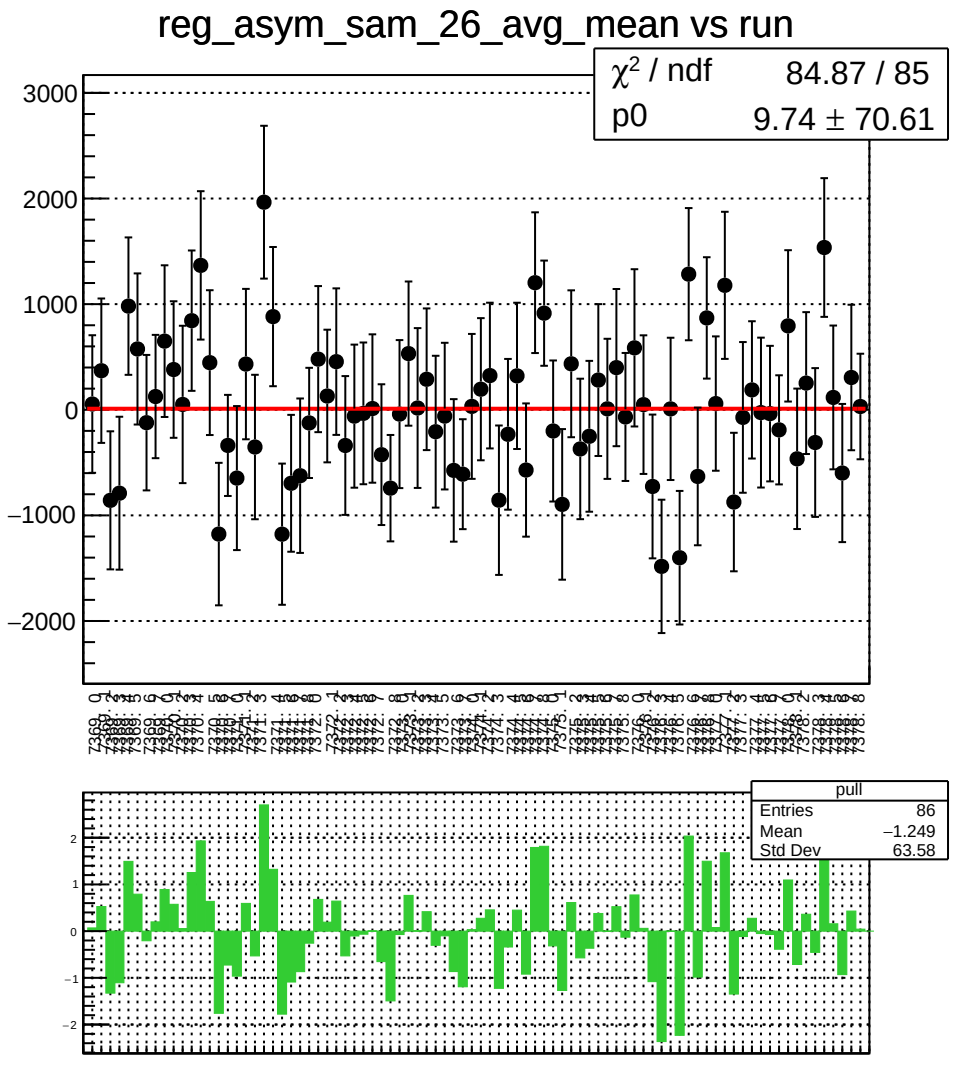

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.177e+05 / 85
p0 74.97 ± 0.0599
140
120
100
80
60
40

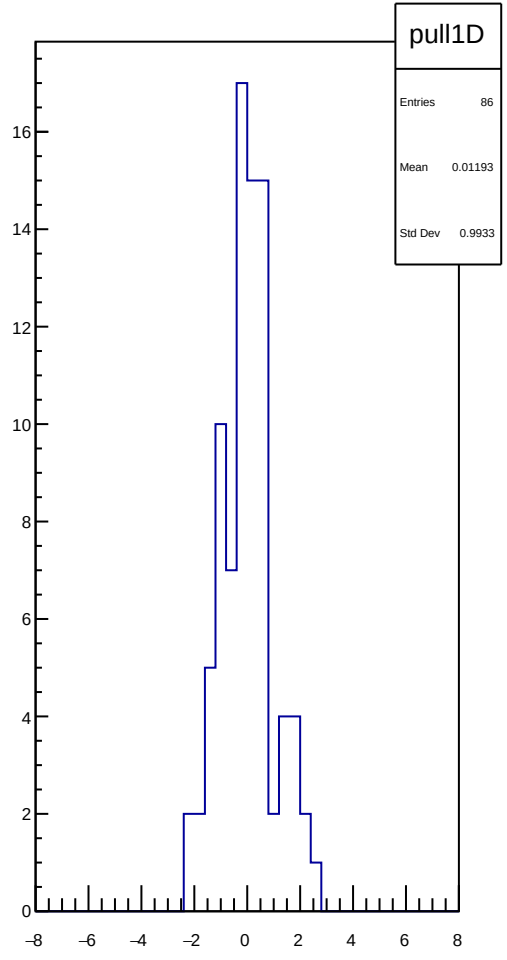

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.6 / 85
p0 −0.02187 ± 0.08471
pull
Entries 86
Mean 157
Std Dev 0
pull1D
Entries 86
Mean −0.003156
Std Dev 1.087

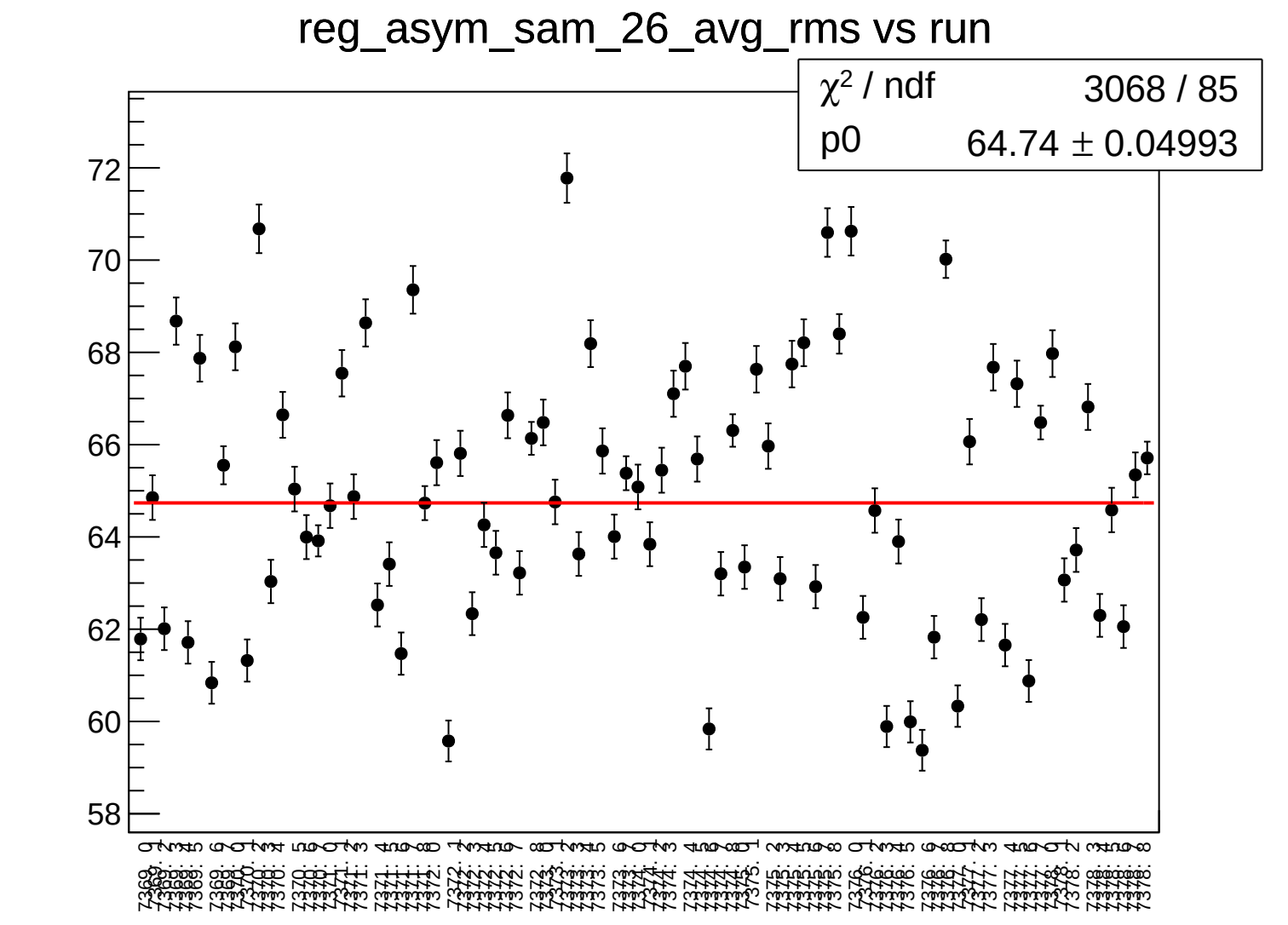

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.177e+05 / 85
p0 74.97 ± 0.0599
140
120
100
80
60
40

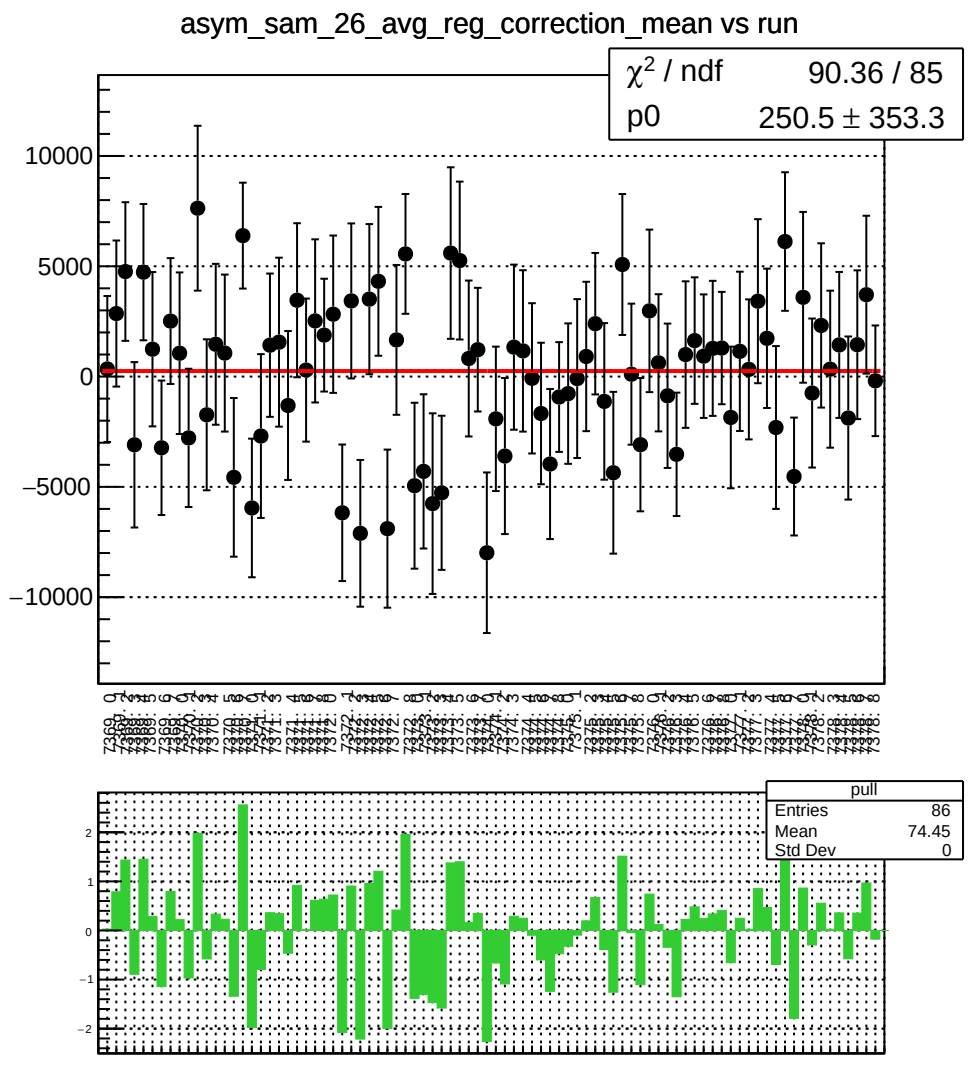

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 85.07 / 85
p0 −6.433e−16 ± 6.072e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 86
Mean 200.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.03405
Std Dev 0.994
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

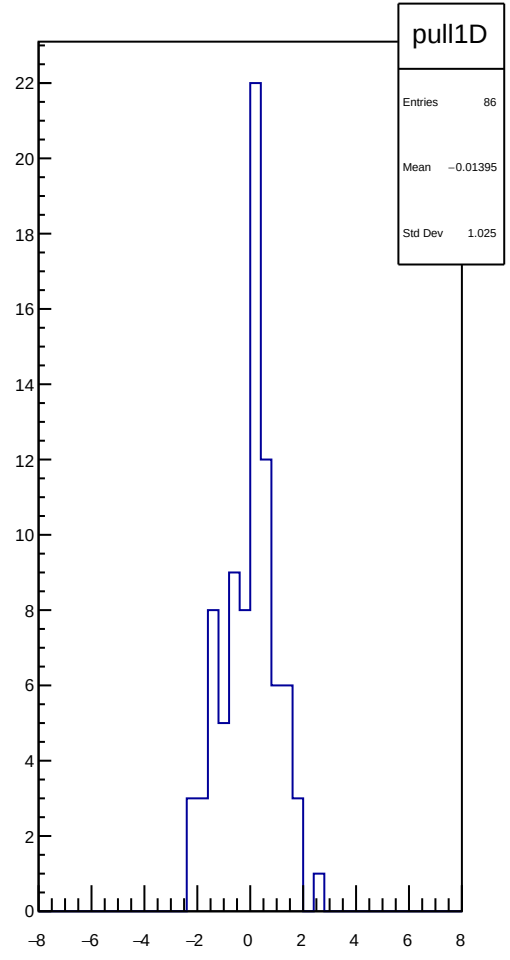

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.534e+05 / 85
p0 4.953e−12 ± 4.294e−15
25
20
15
10
5

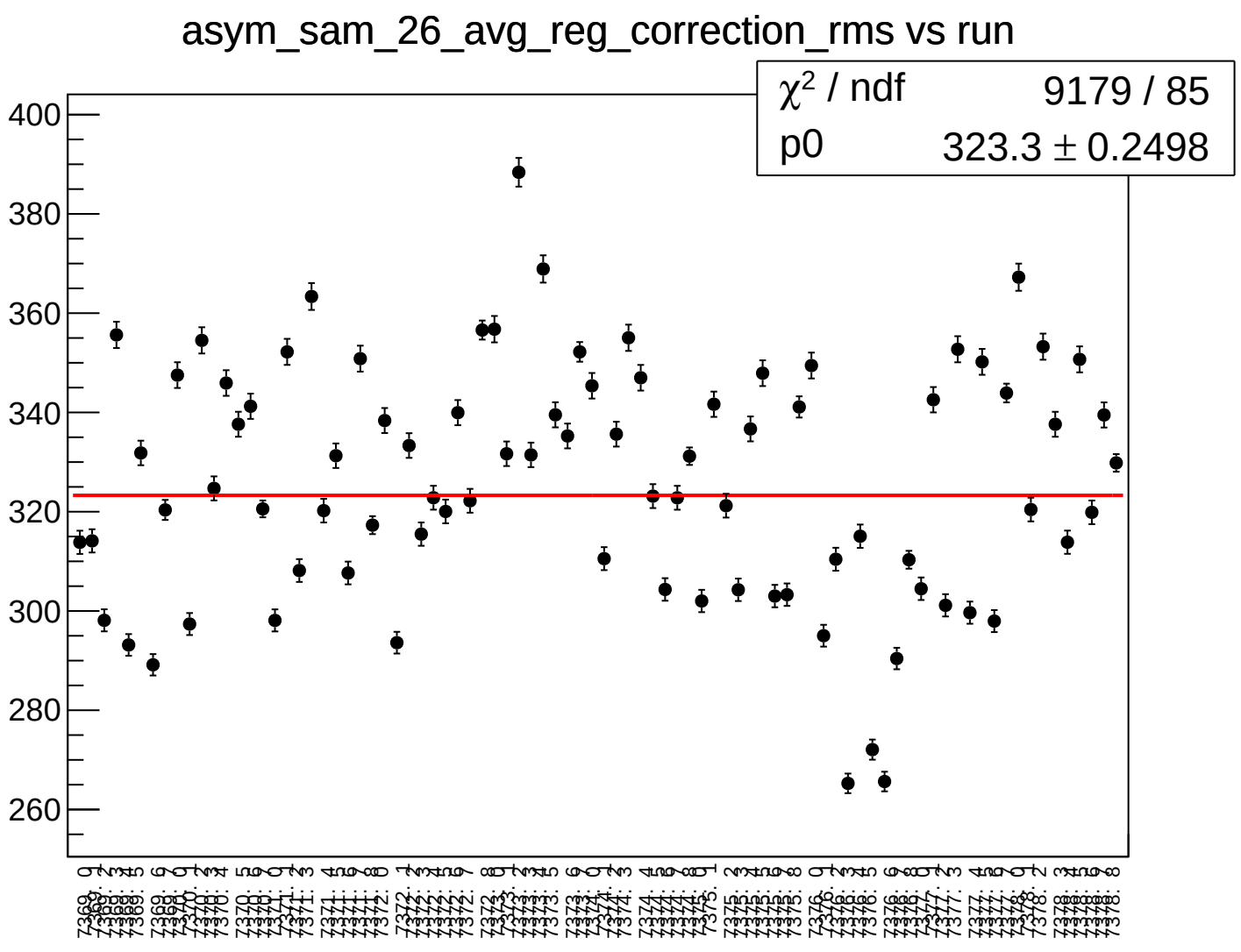

reg_asym_sam_26_avg_mean vs run
χ² / ndf 84.87 / 85
p0 9.74 ± 70.61
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −1.249
Std Dev 63.58
2
1
0
−1
−2

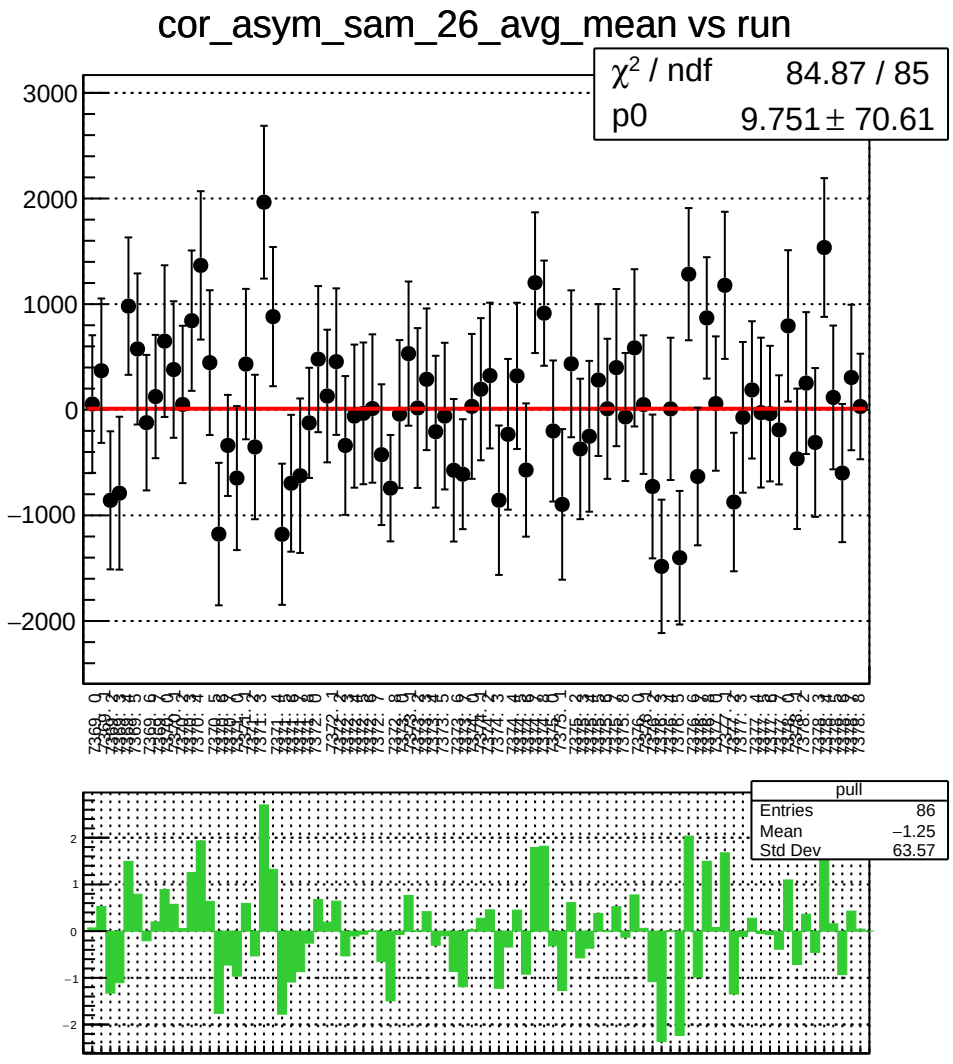

pull1D
Entries 86
Mean 0.01193
Std Dev 0.9933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

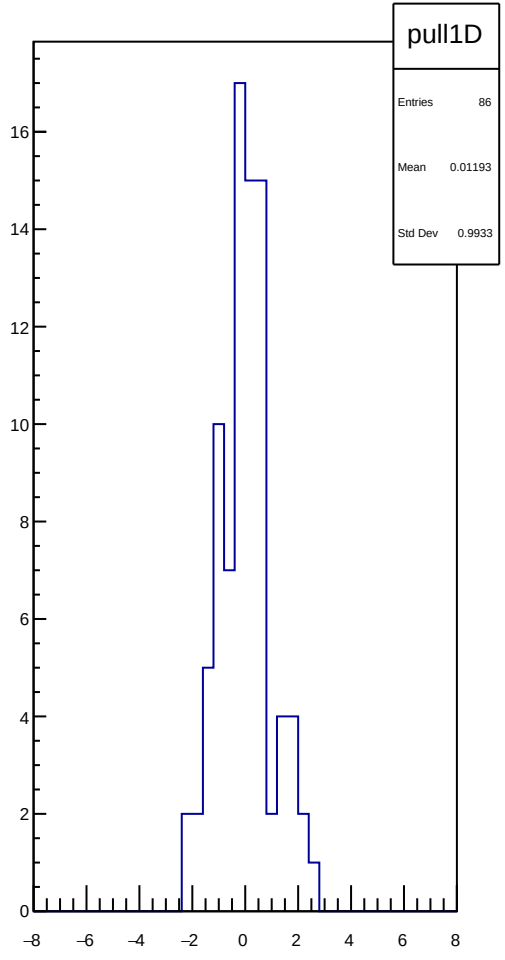

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3068 / 85
p0 64.74 ± 0.04993
72
70
68
66
64
62
60
58

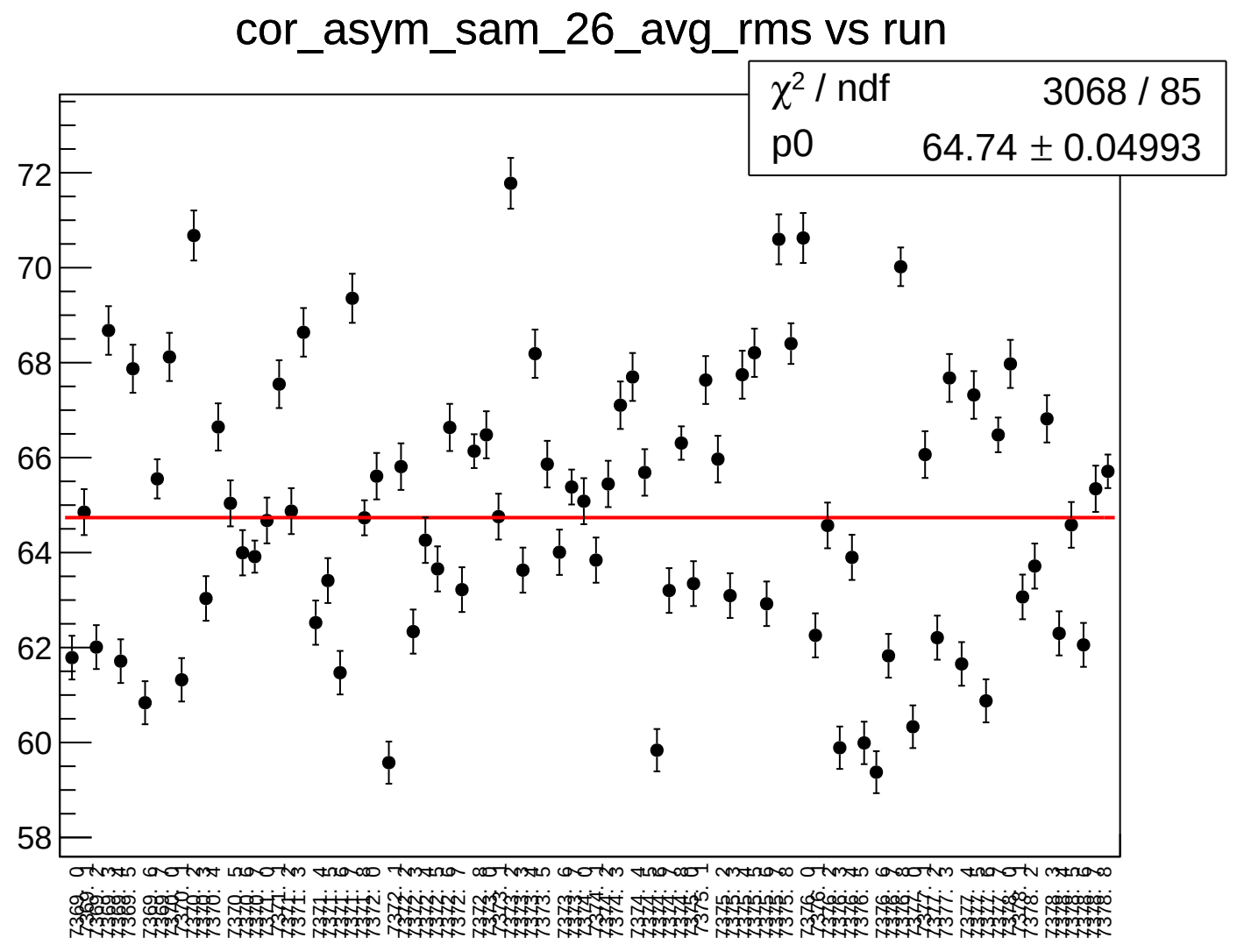

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 90.36 / 85
p0 250.5 ± 353.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 74.45
Std Dev 0
2
1
0
−1
−2

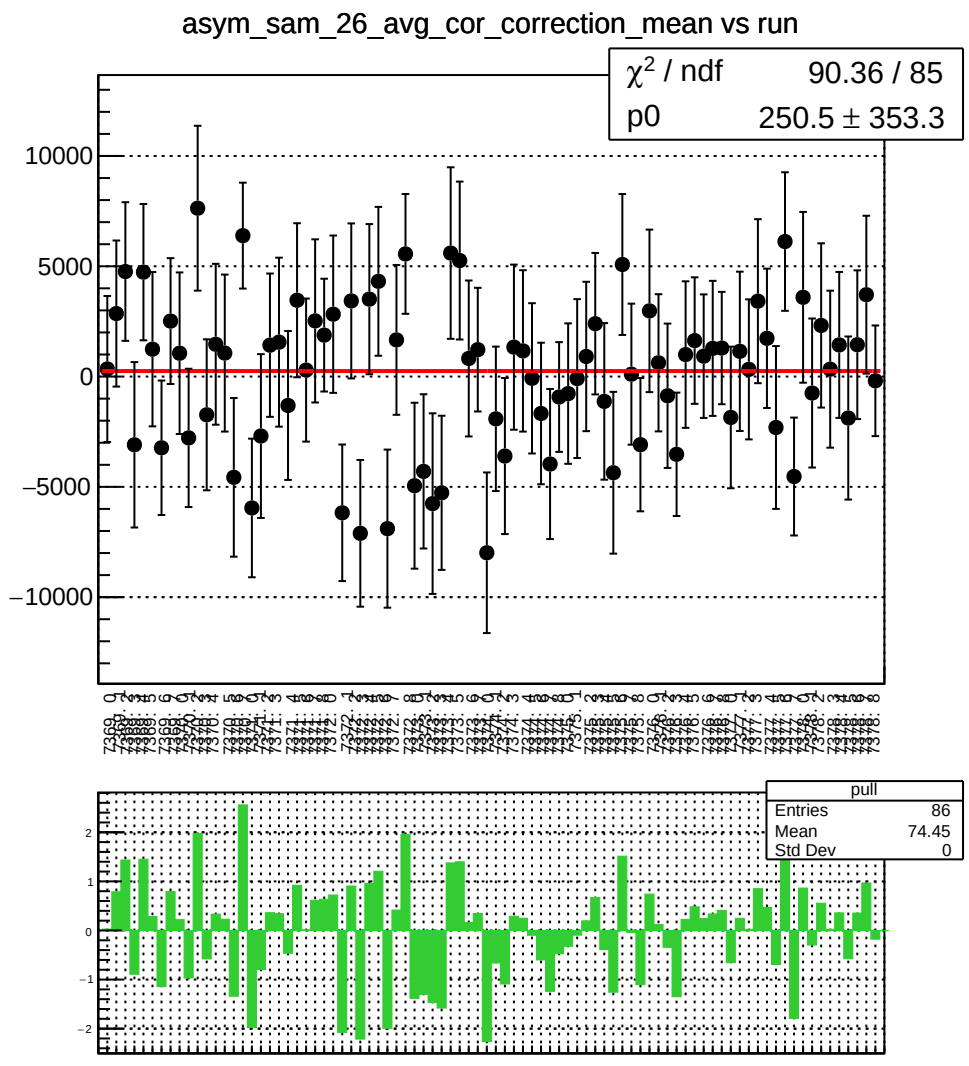

pull1D
Entries 86
Mean −0.01395
Std Dev 1.025
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

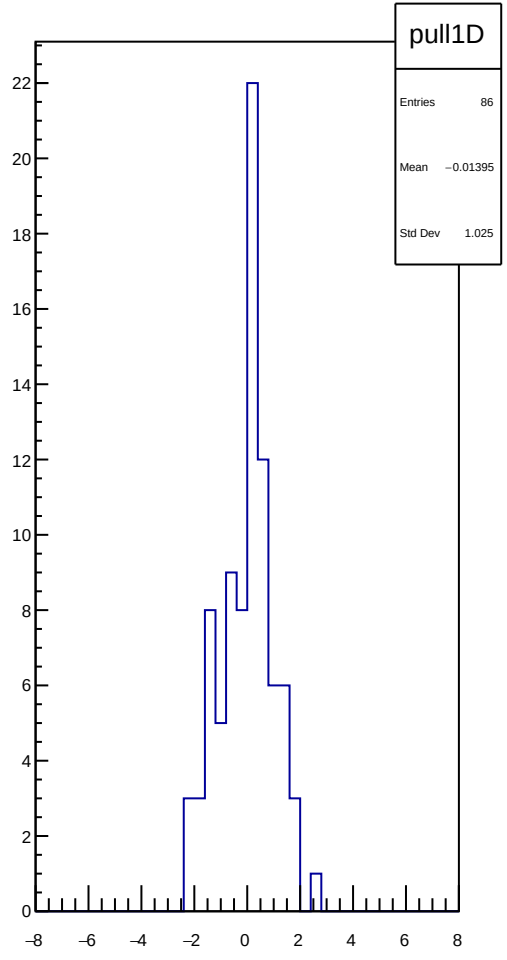

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 9179 / 85
p0 323.3 ± 0.2498
400
380
360
340
320
300
280
260

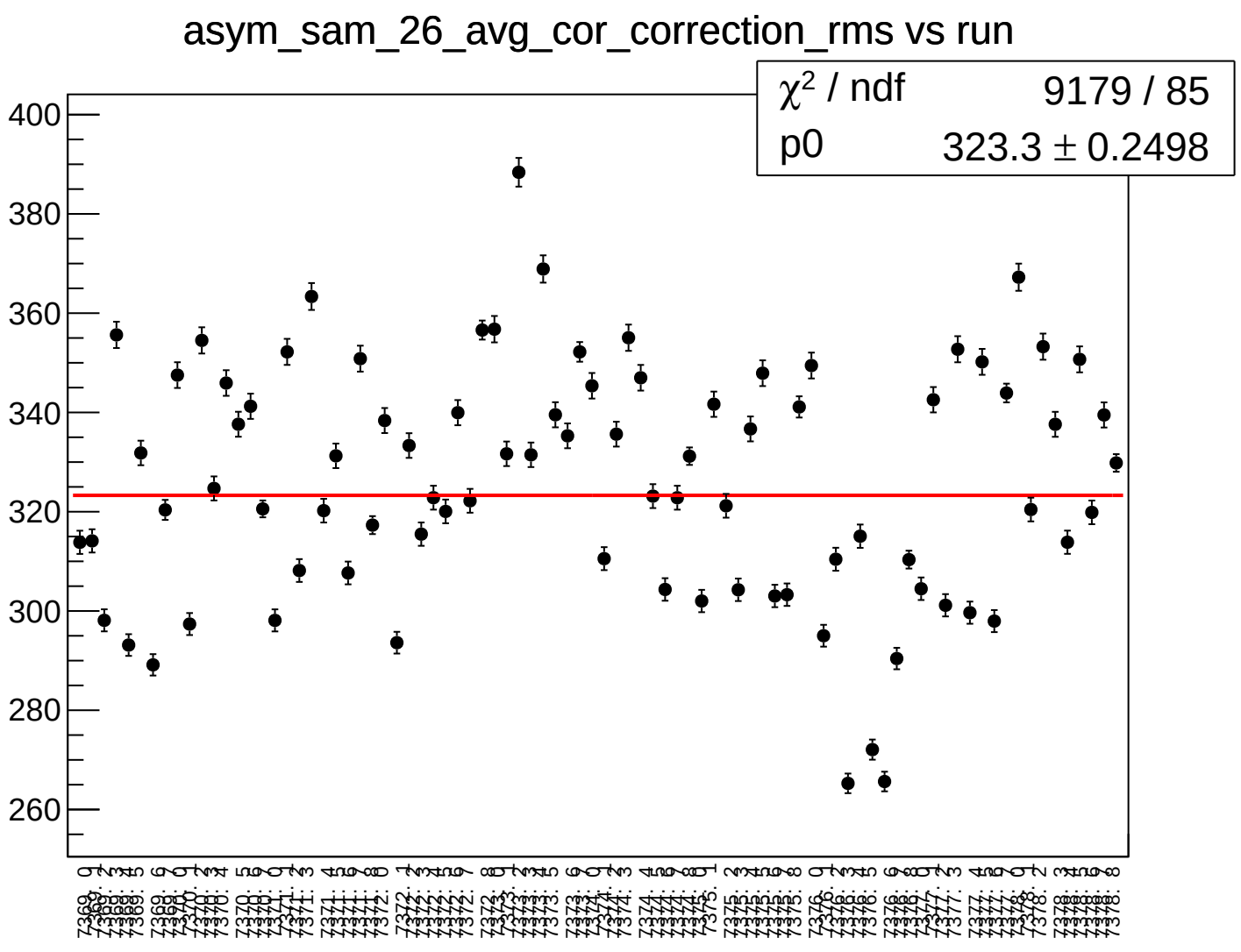

cor_asym_sam_26_avg_mean vs run
χ² / ndf 84.87 / 85
p0 9.751 ± 70.61
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −1.25
Std Dev 63.57
2
1
0
−1
−2

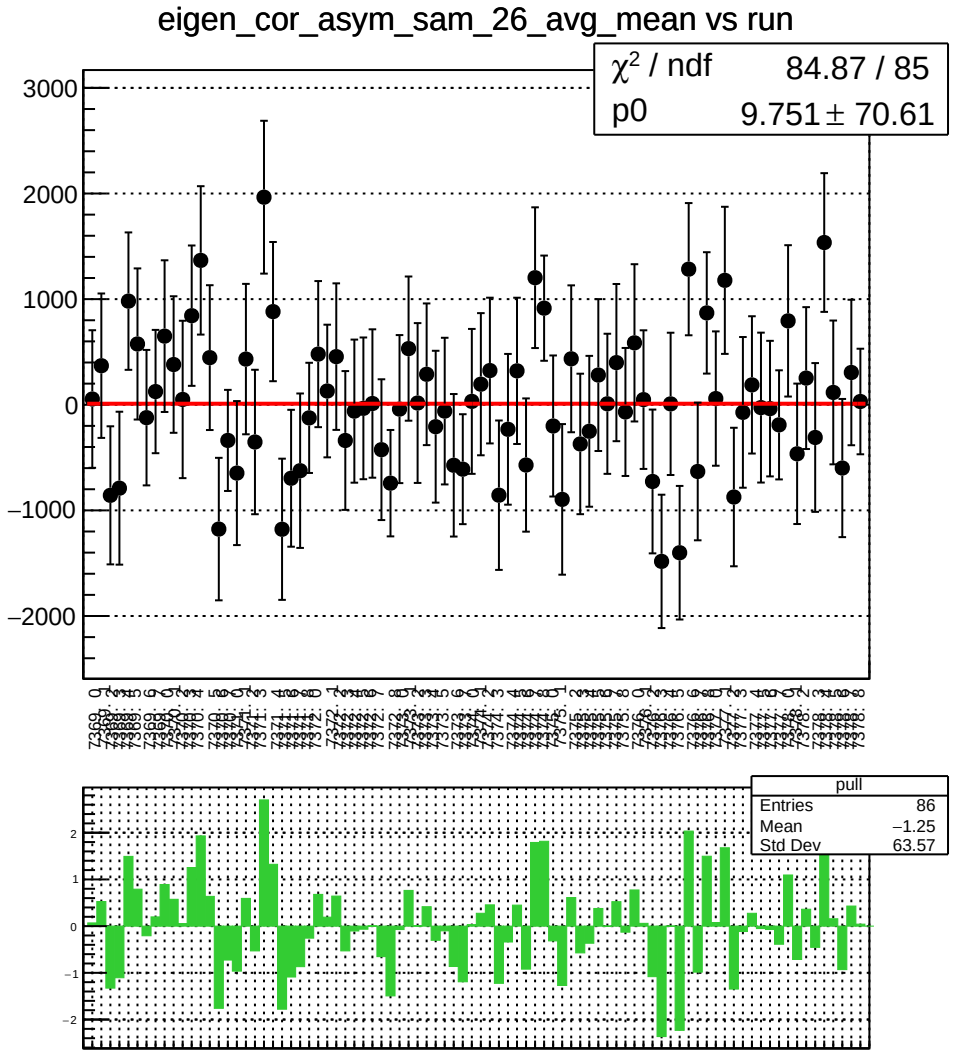

pull1D
Entries 86
Mean 0.01193
Std Dev 0.9933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

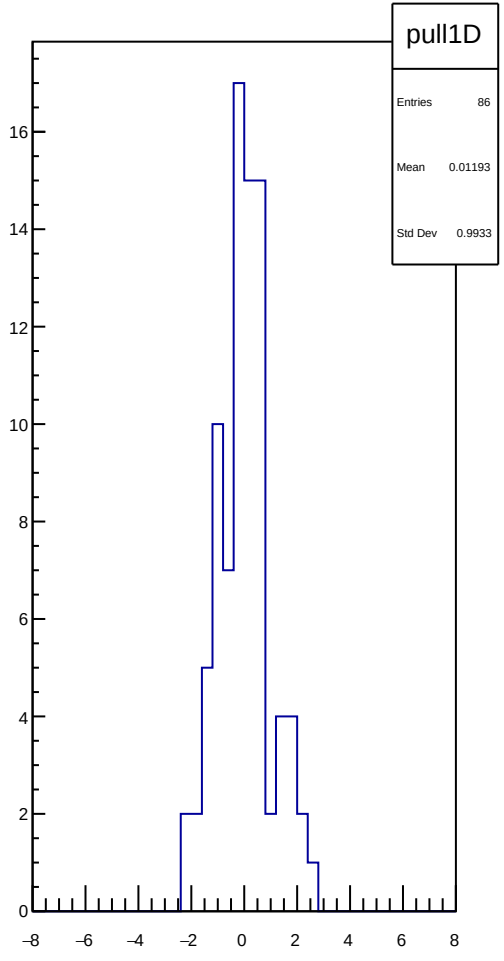

cor_asym_sam_26_avg_rms vs run
χ² / ndf 3068 / 85
p0 64.74 ± 0.04993
72
70
68
66
64
62
60
58

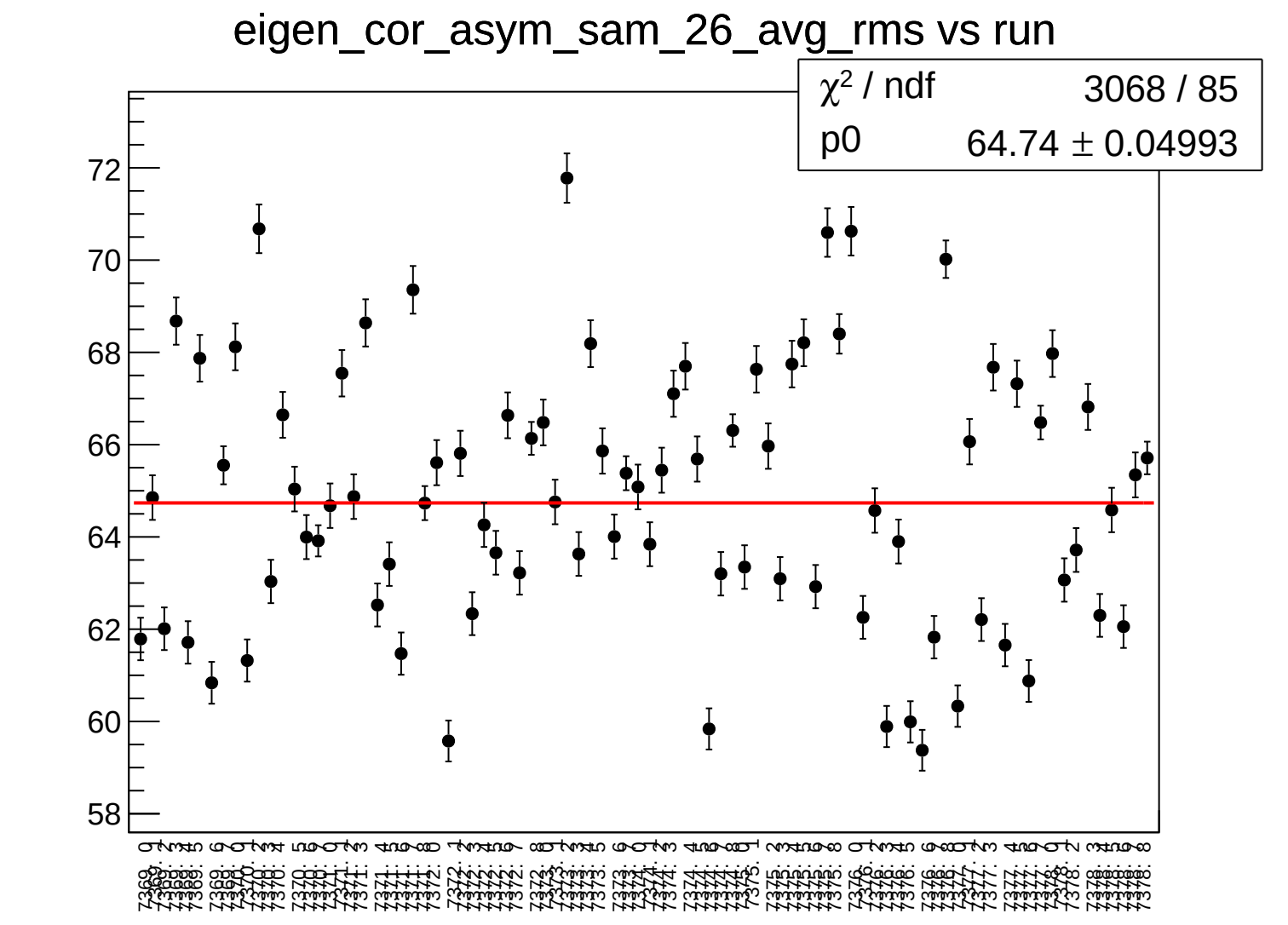

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 90.36 / 85
p0 250.5 ± 353.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 74.45
Std Dev 0
2
1
0
−1
−2

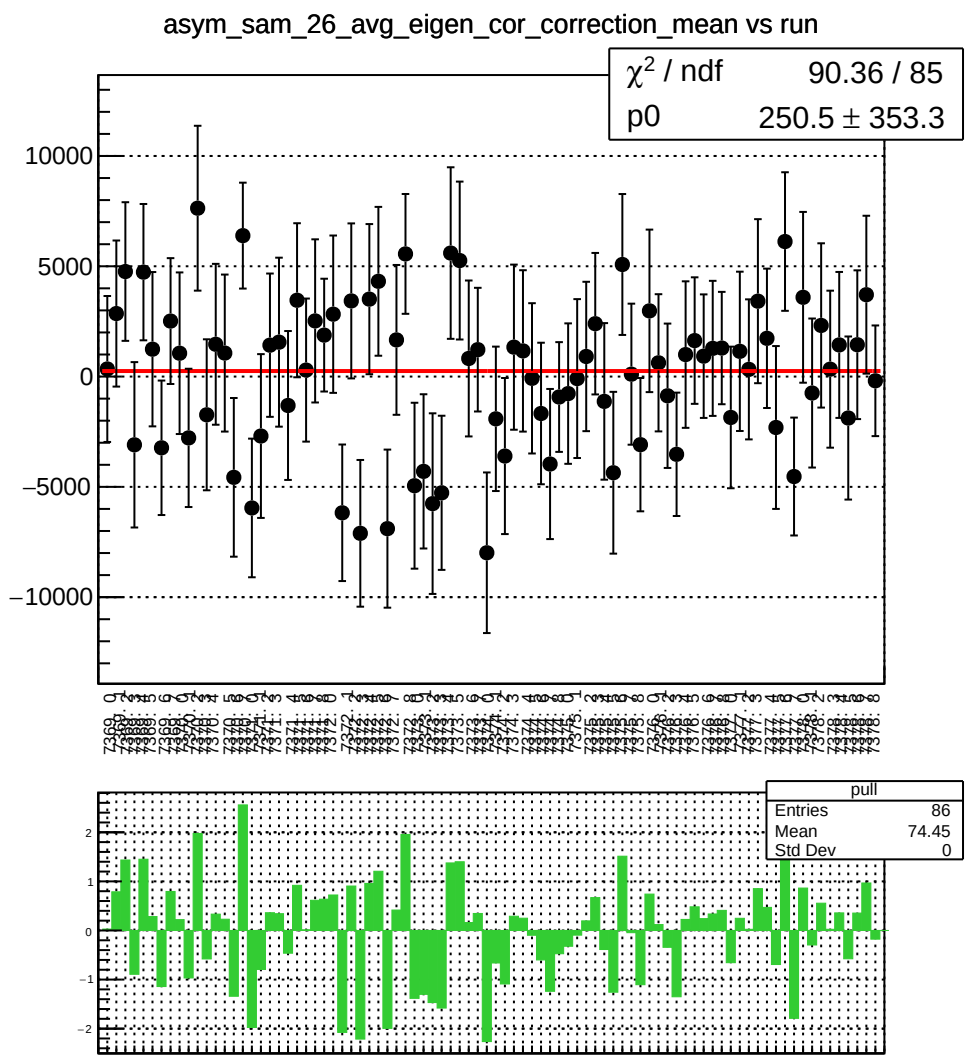

pull1D
Entries 86
Mean −0.01395
Std Dev 1.025
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

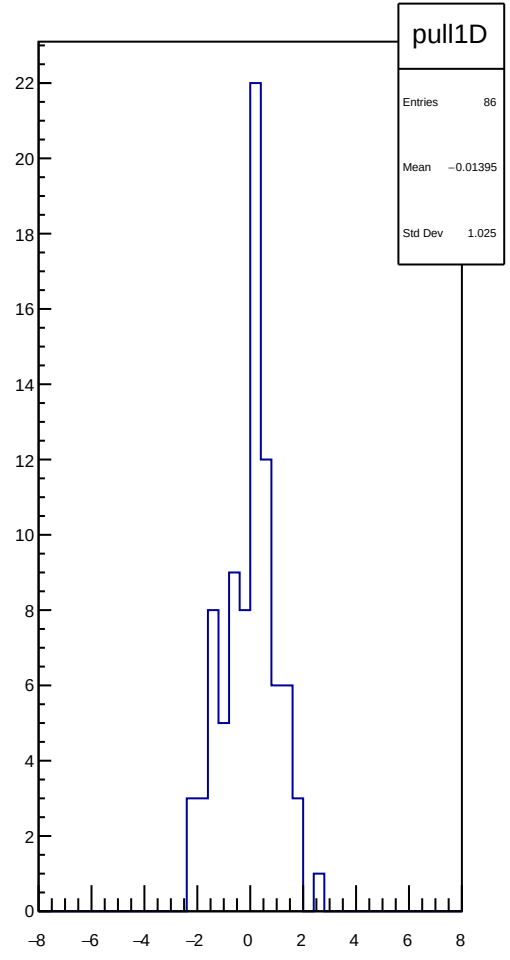

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 9179 / 85
p0 323.3 ± 0.2498
400
380
360
340
320
300
280
260

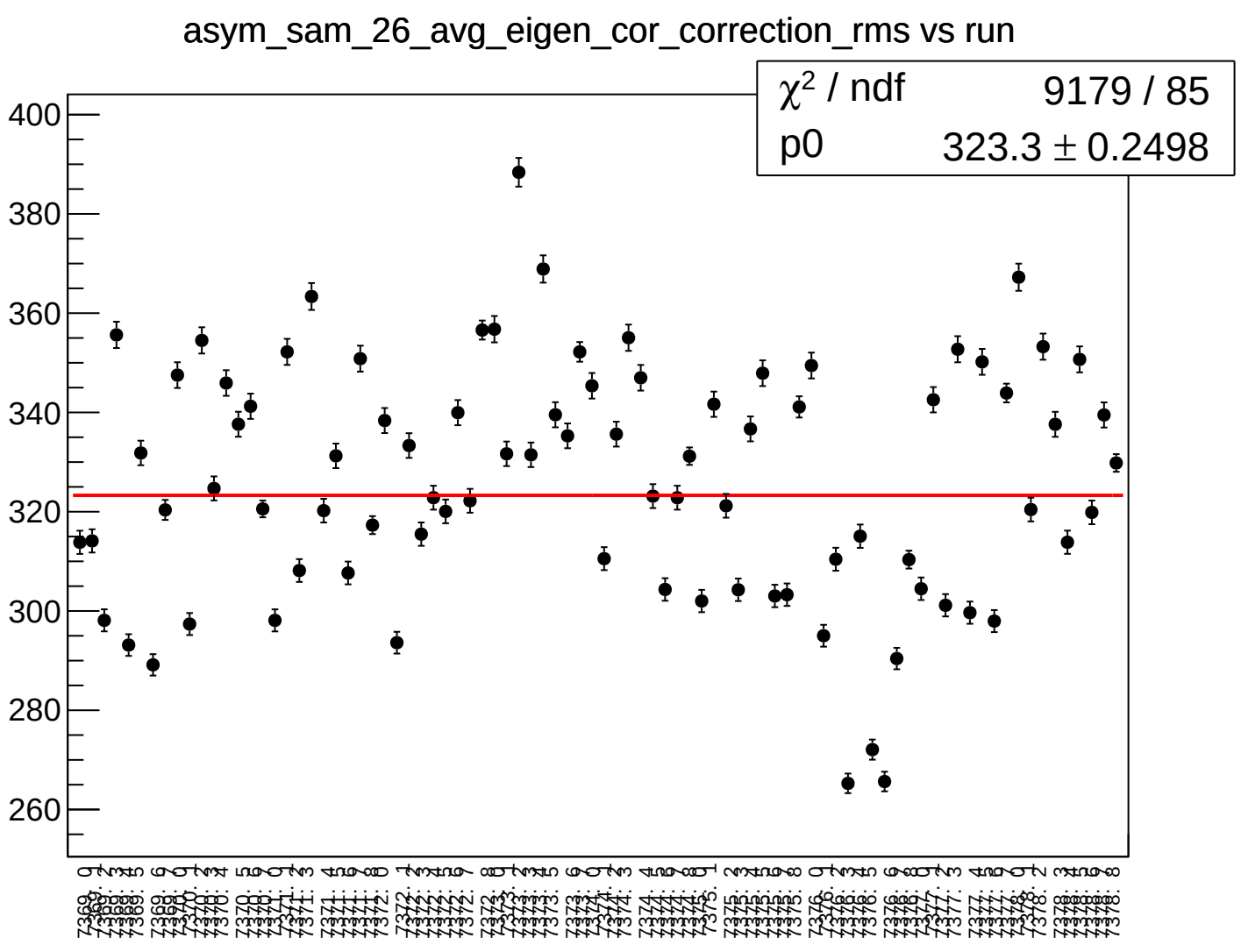

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 84.87 / 85
p0 9.751 ± 70.61
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −1.25
Std Dev 63.57
2
1
0
−1
−2

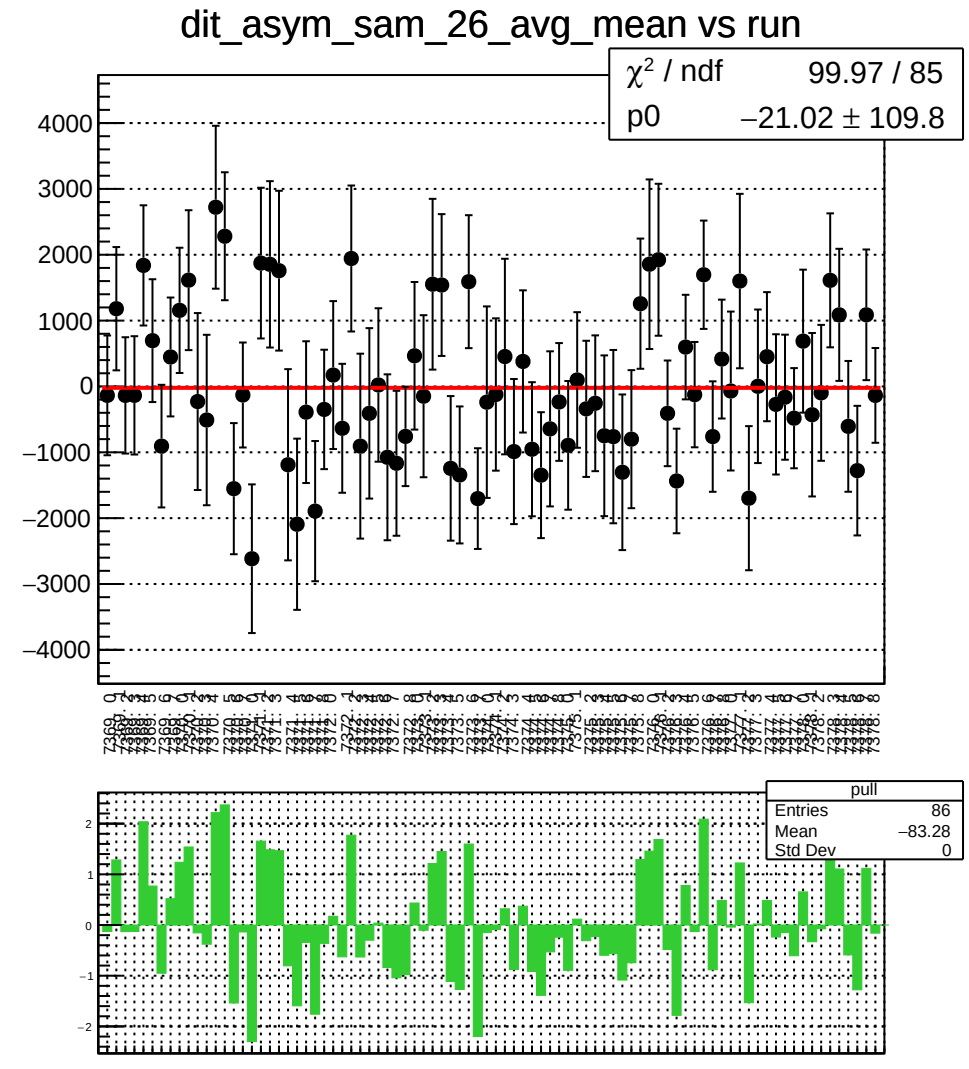

pull1D
Entries 86
Mean 0.01193
Std Dev 0.9933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

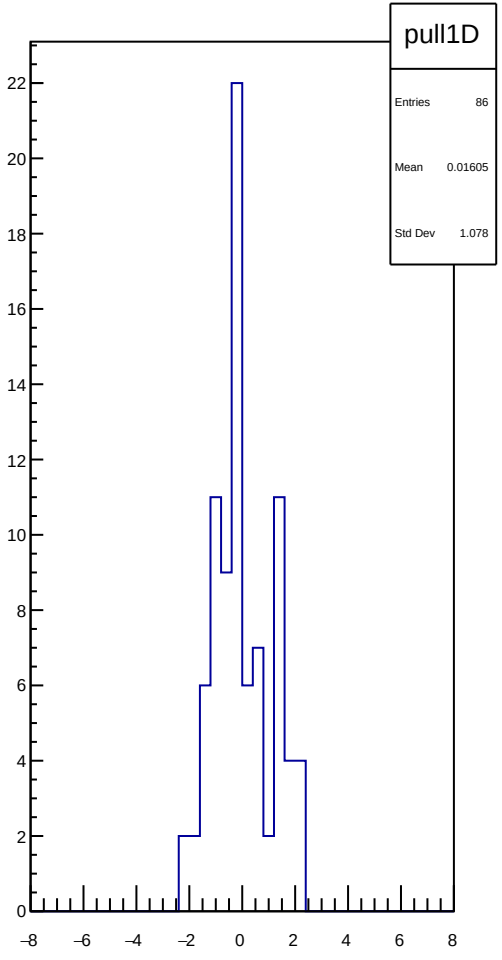

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3068 / 85
p0 64.74 ± 0.04993
72
70
68
66
64
62
60
58

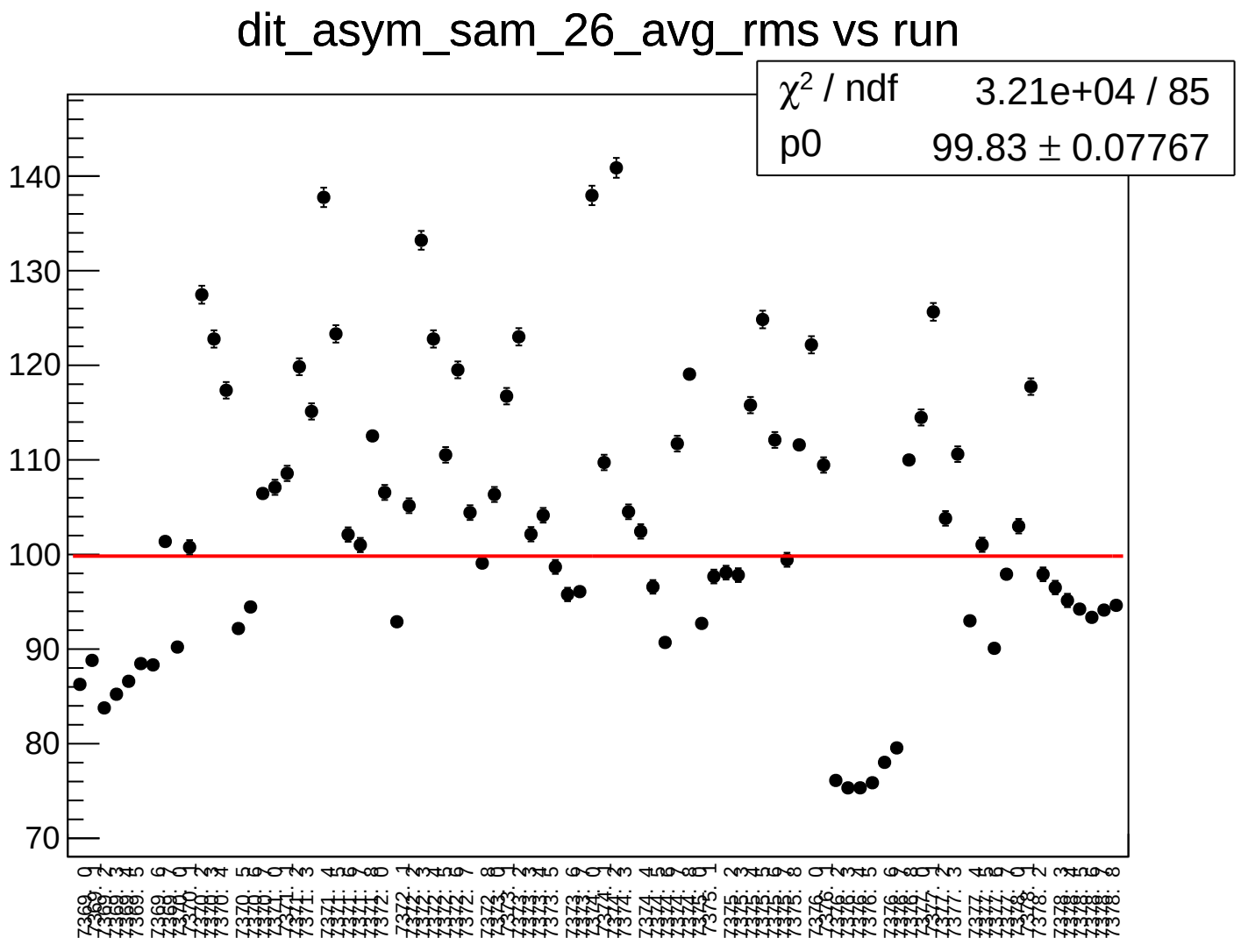

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.36 / 85
p0 250.5 ± 353.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 74.45
Std Dev 0
2
1
0
−1
−2

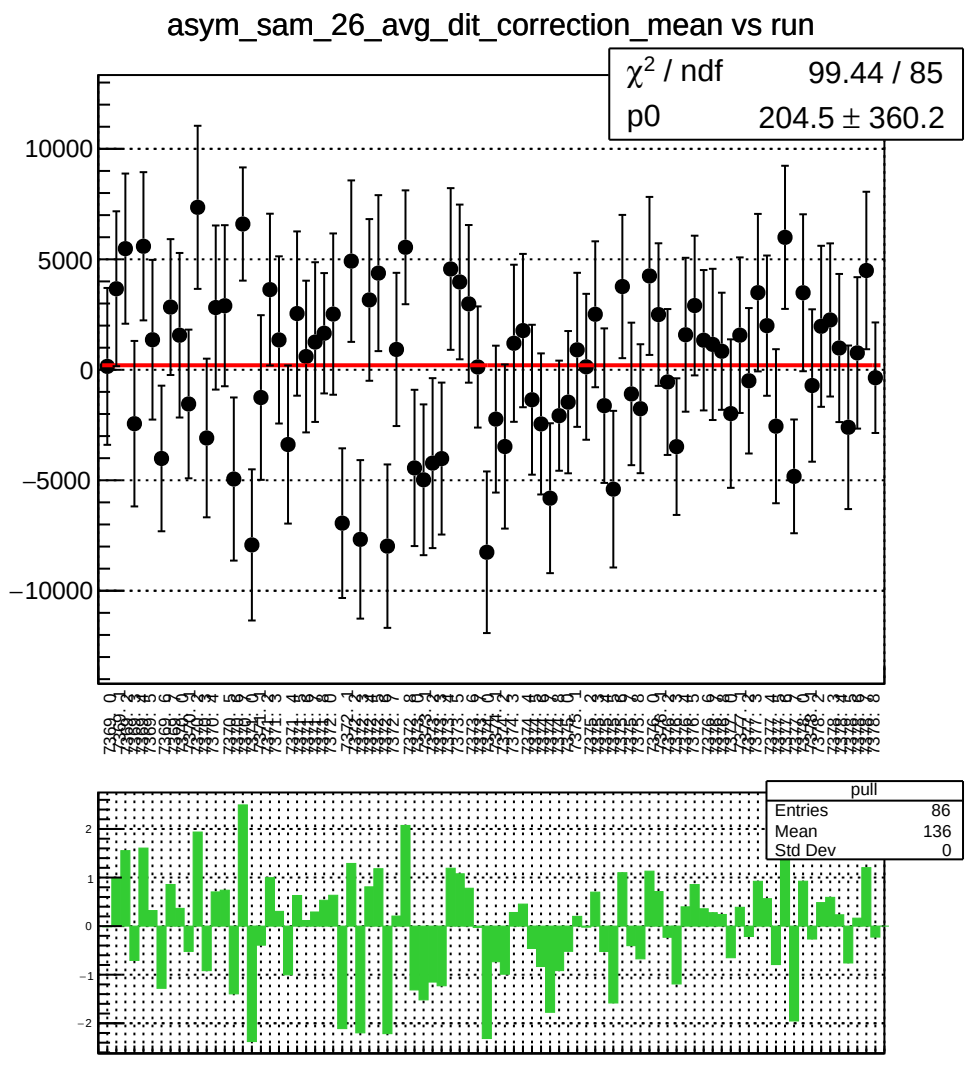

pull1D
Entries 86
Mean −0.01395
Std Dev 1.025
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

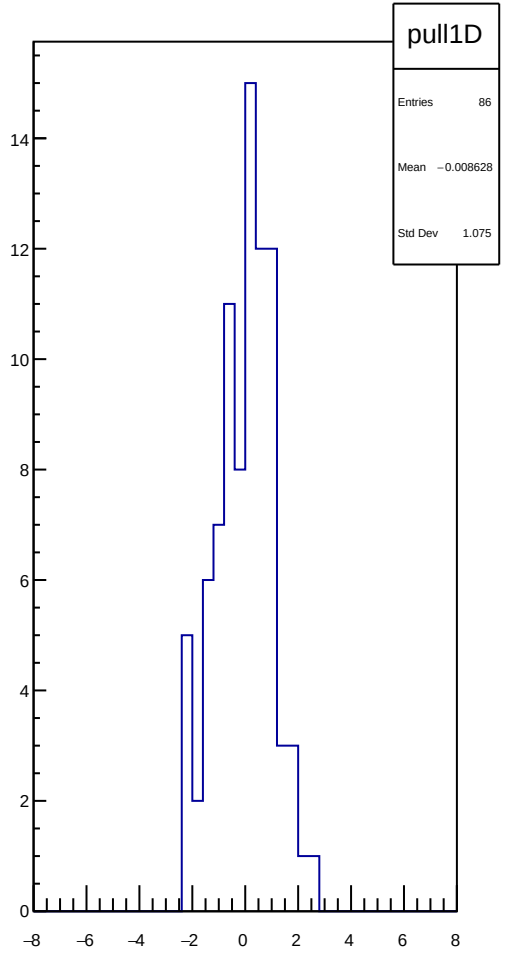

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 9179 / 85
p0 323.3 ± 0.2498
400
380
360
340
320
300
280
260

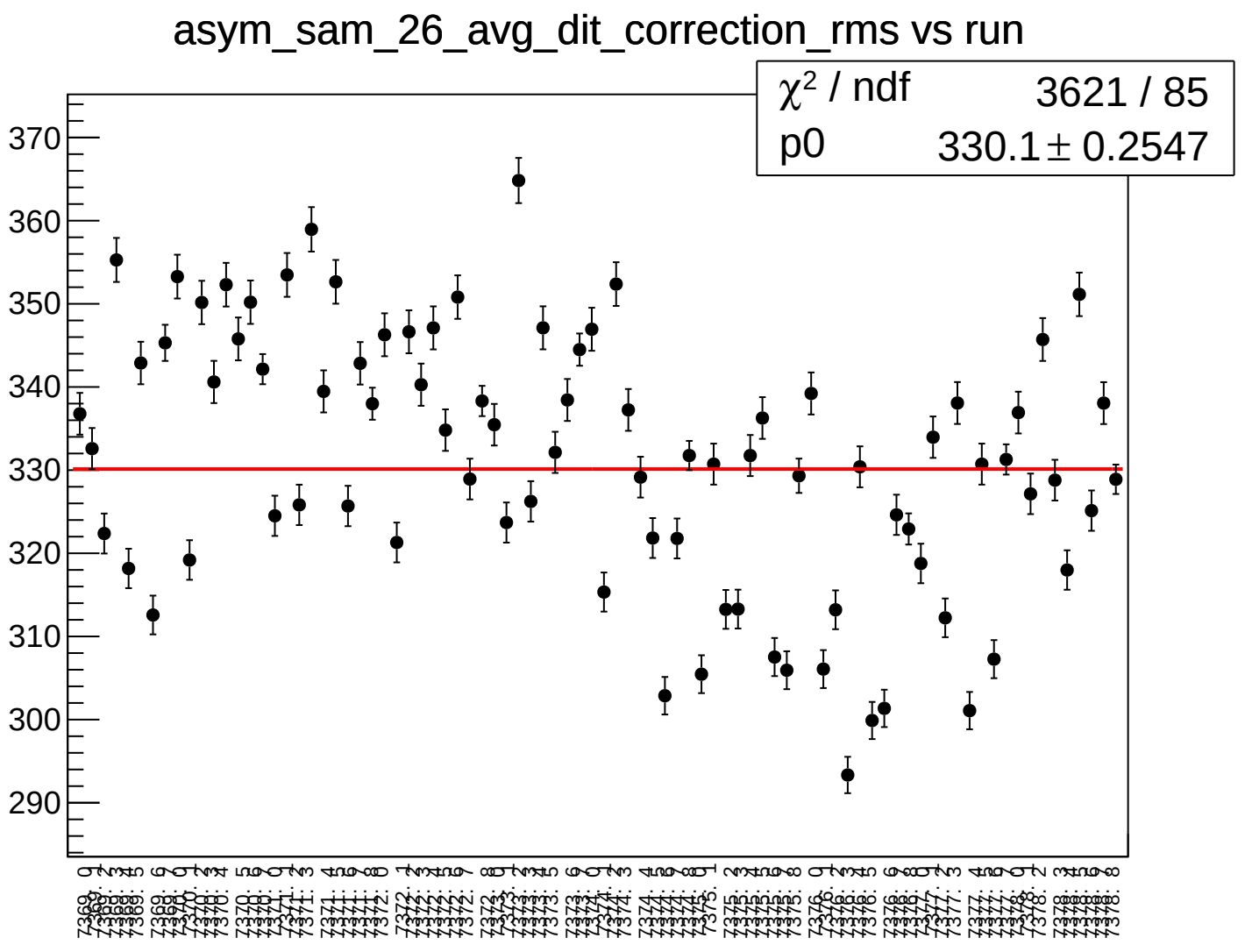

dit_asym_sam_26_avg_mean vs run
χ² / ndf 99.97 / 85
p0 −21.02 ± 109.8
pull
Entries 86
Mean −83.28
Std Dev 0

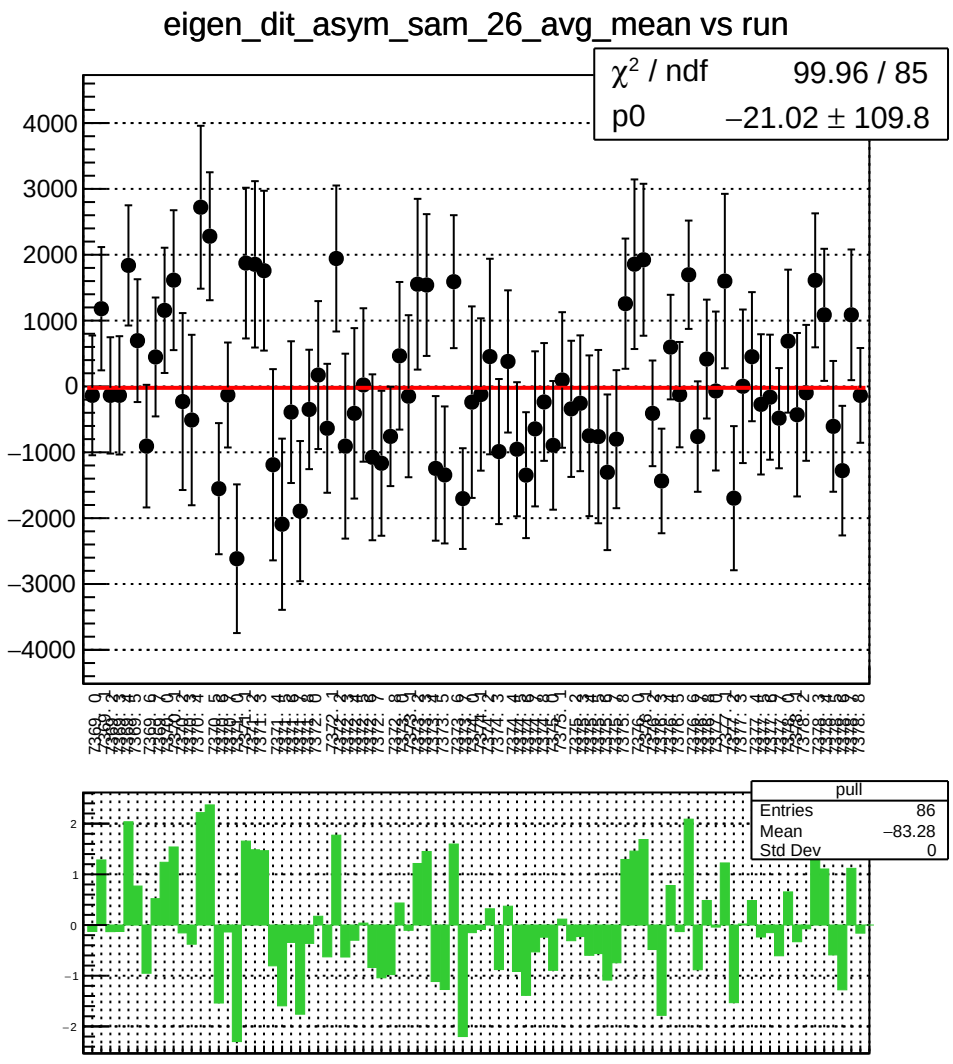

pull1D
Entries 86
Mean 0.01605
Std Dev 1.078

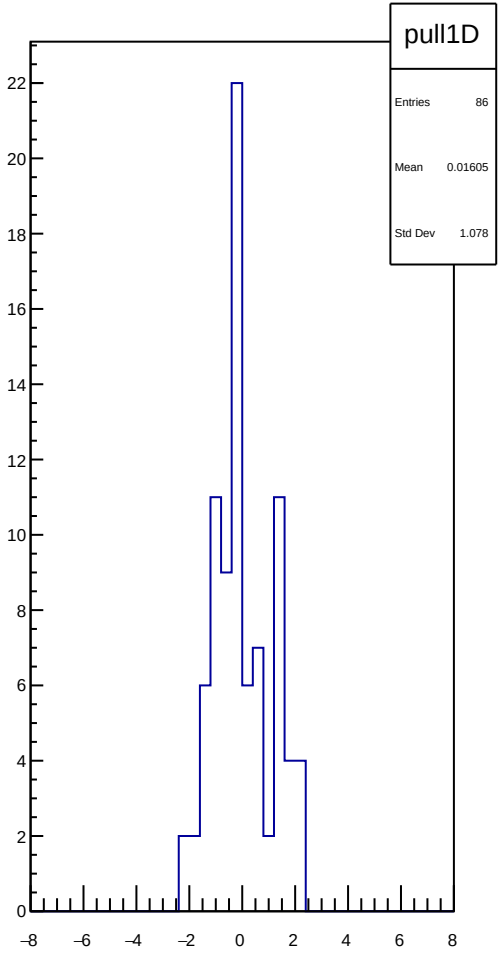

dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.21e+04 / 85
p0 99.83 ± 0.07767
140
130
120
110
100
90
80
70

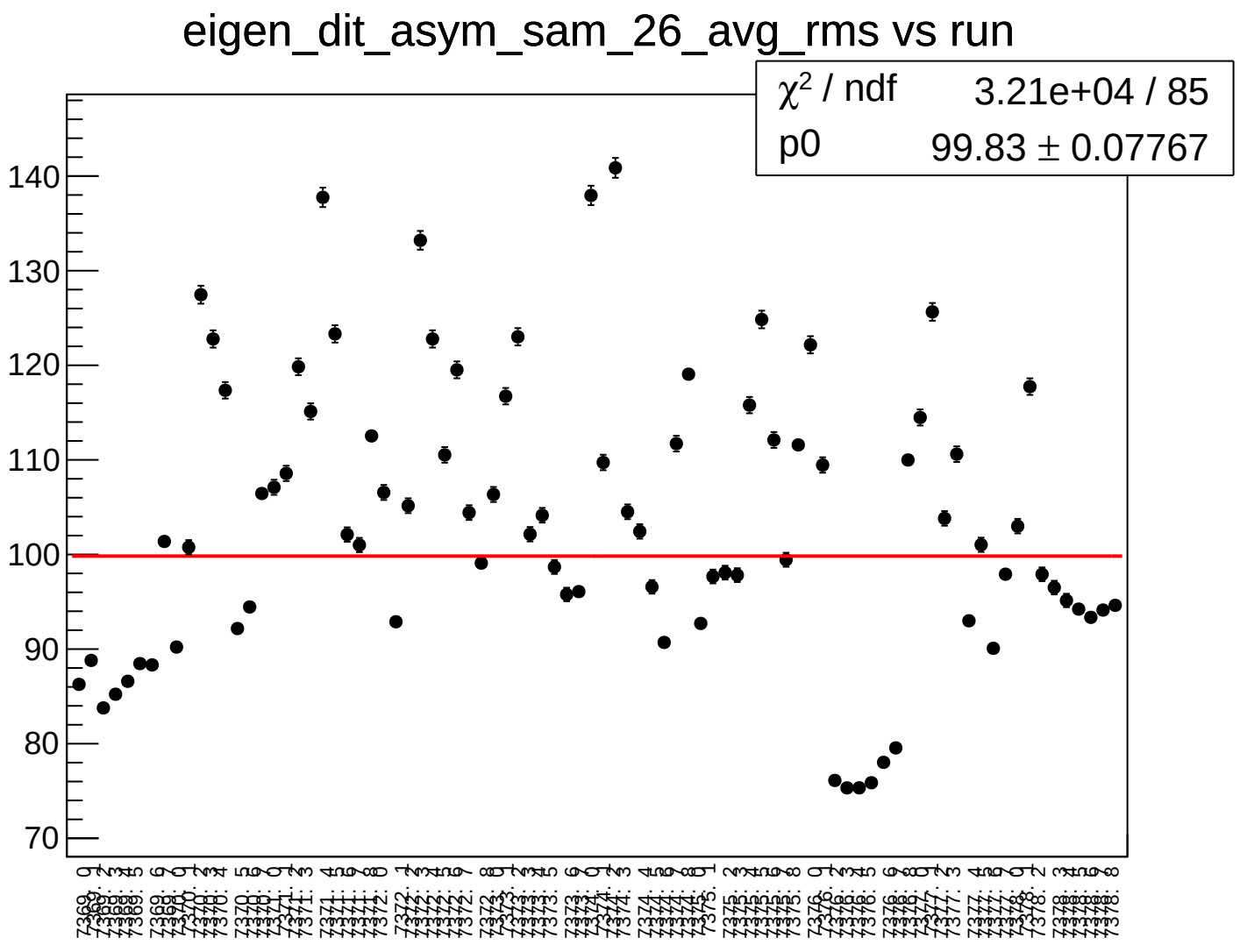

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 99.44 / 85
p0 204.5 ± 360.2
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 136
Std Dev 0
2
1
0
−1
−2

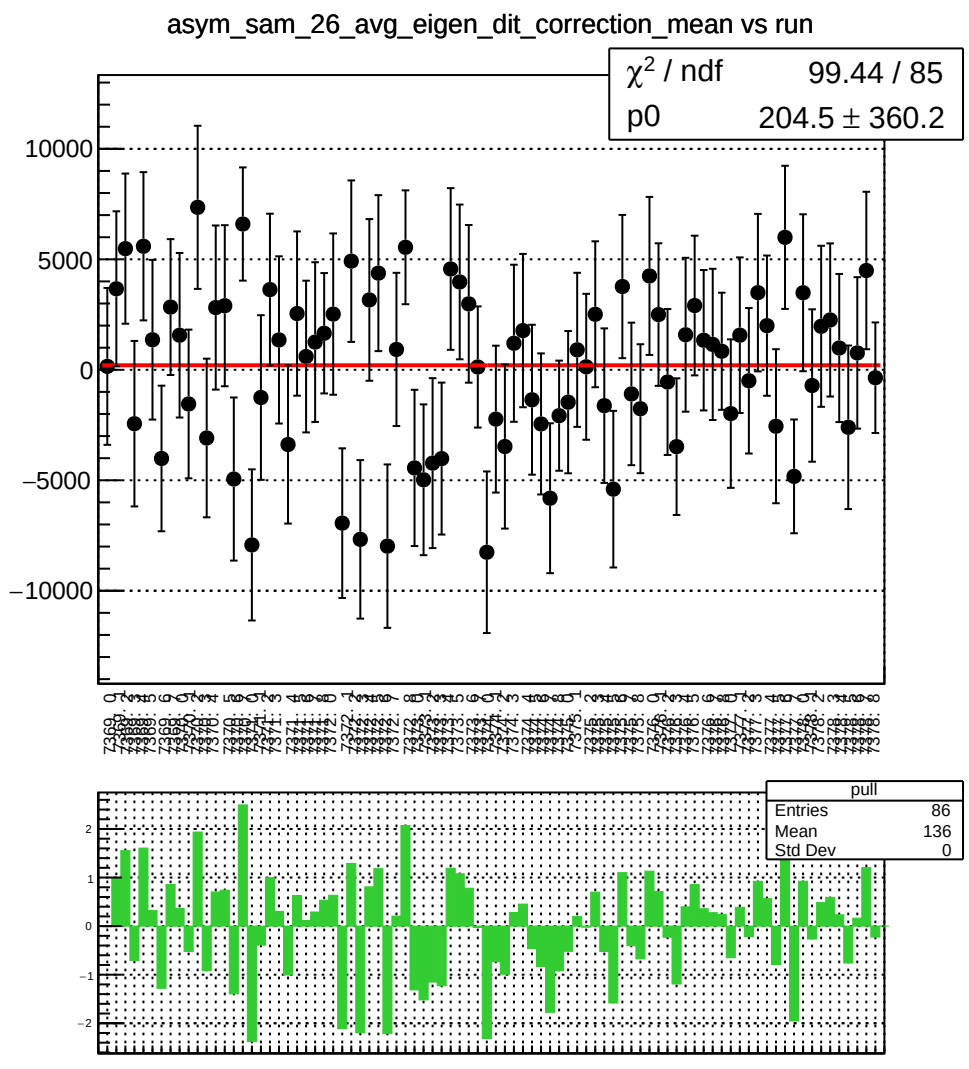

pull1D
Entries 86
Mean −0.008628
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

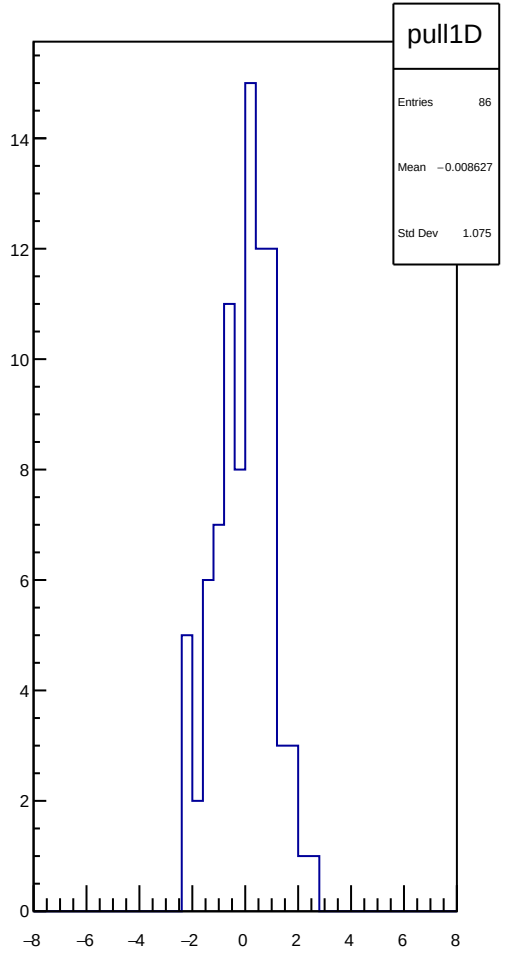

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 3621 / 85
p0 330.1 ± 0.2547
370
360
350
340
330
320
310
300
290

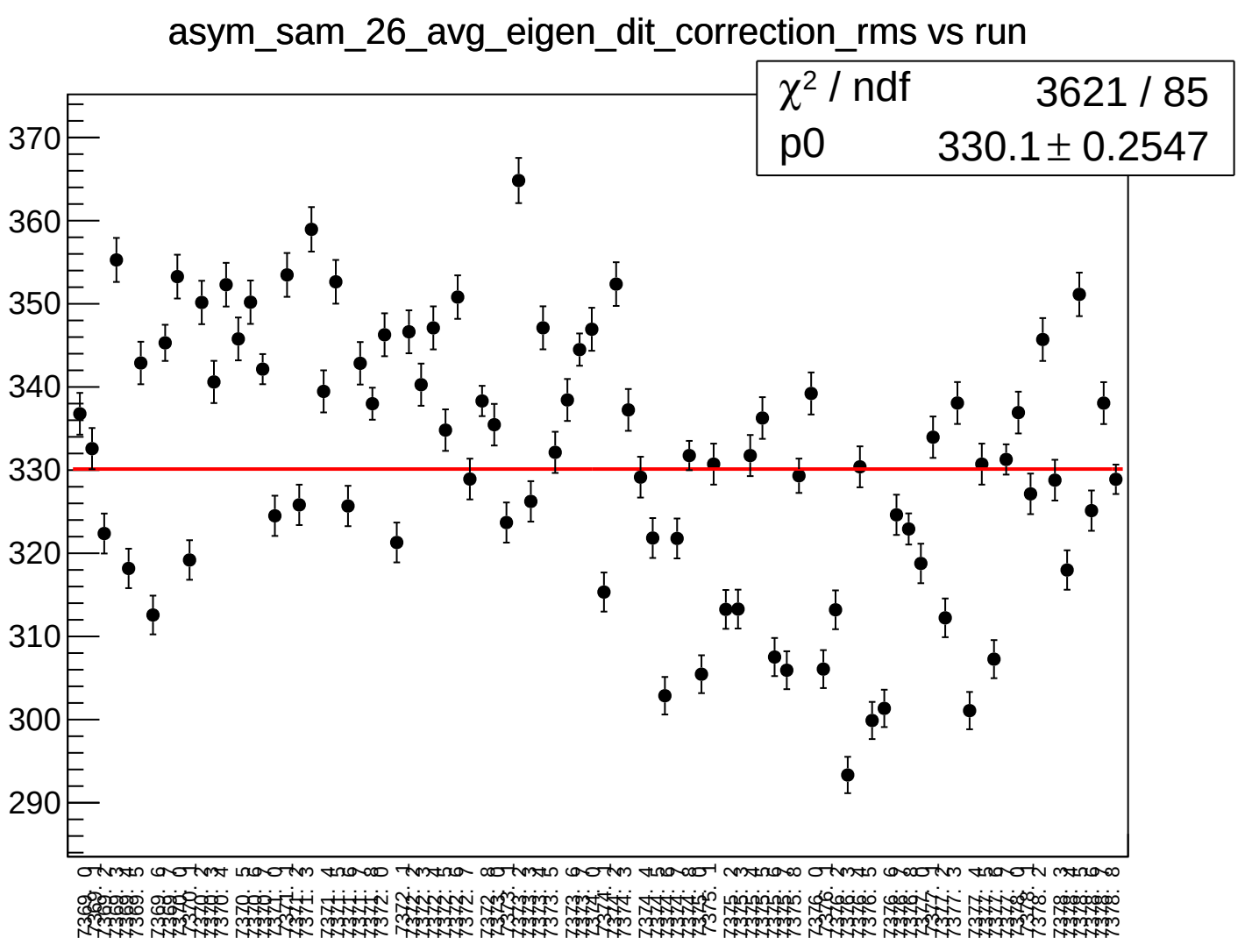

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 99.96 / 85
p0 −21.02 ± 109.8
pull
Entries 86
Mean −83.28
Std Dev 0

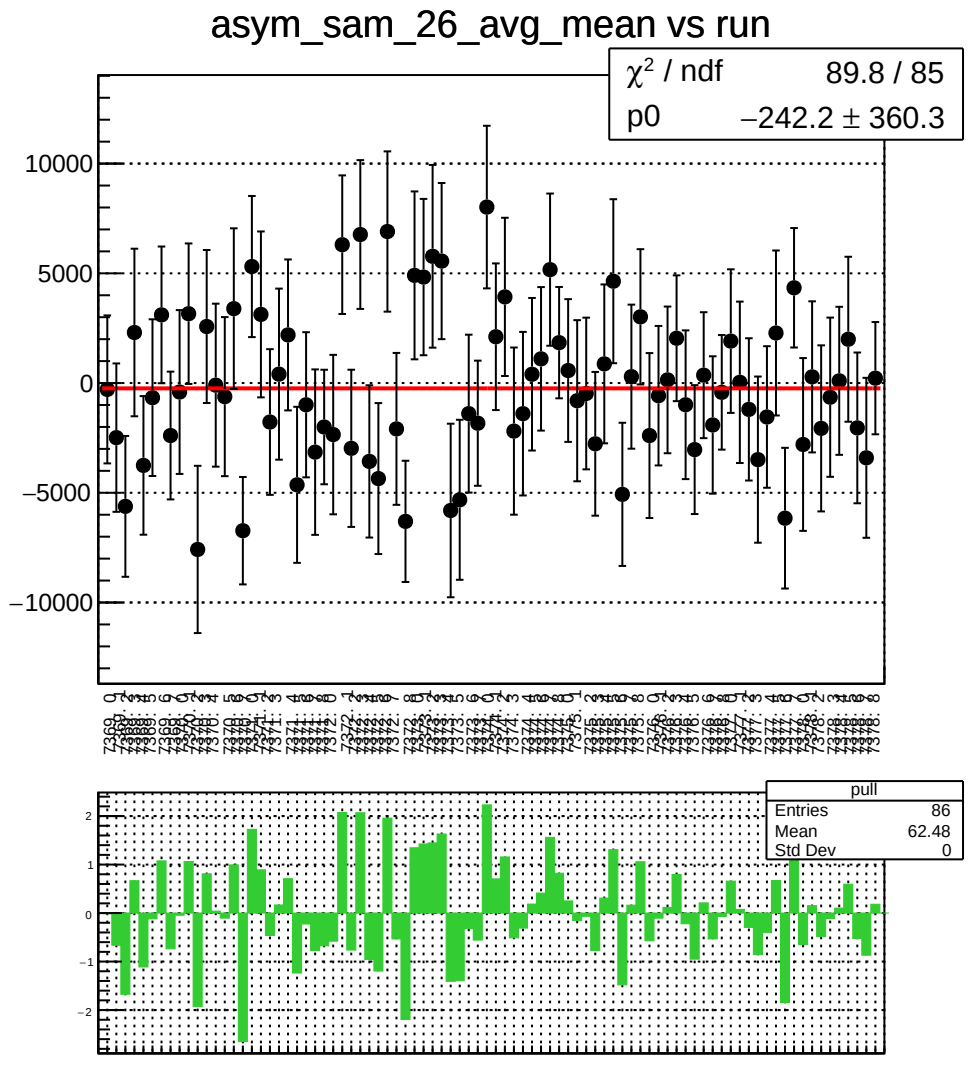

pull1D
Entries 86
Mean 0.01605
Std Dev 1.078

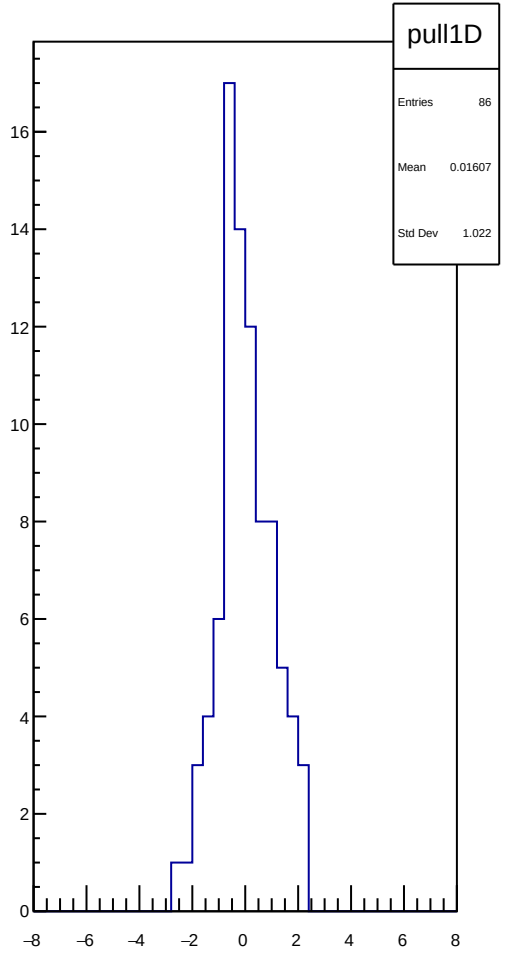

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.21e+04 / 85
p0 99.83 ± 0.07767
140
130
120
110
100
90
80
70

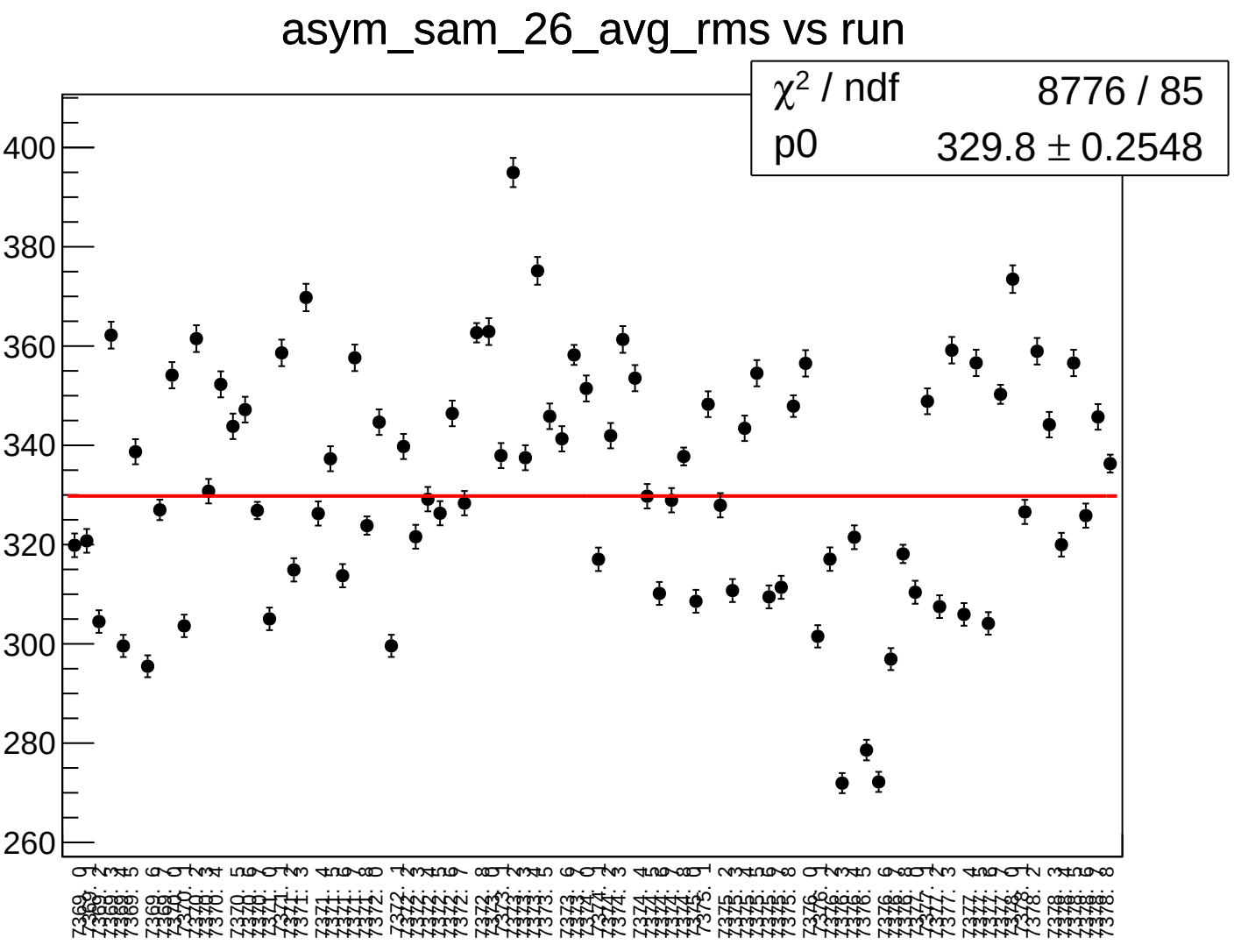

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.44 / 85
p0 204.5 ± 360.2
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 136
Std Dev 0
2
1
0
−1
−2

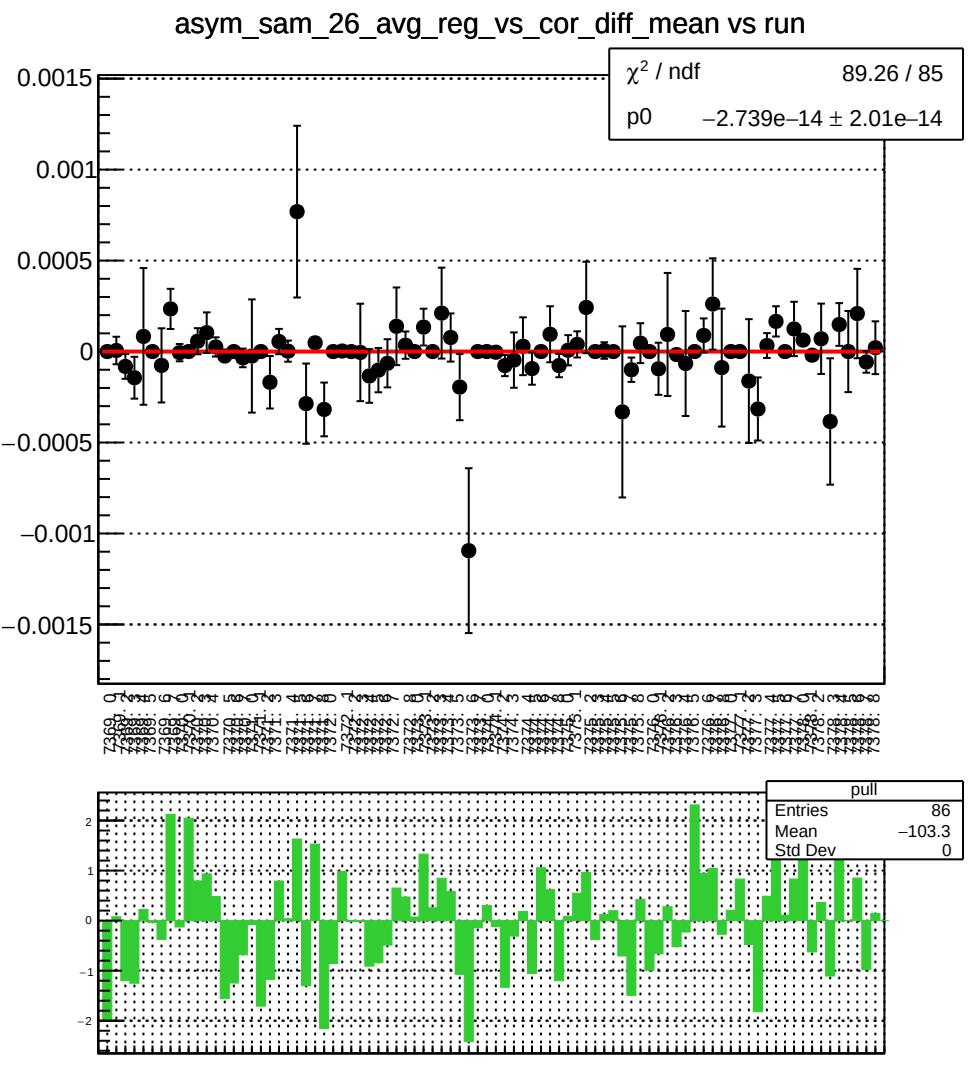

pull1D
Entries 86
Mean −0.008627
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

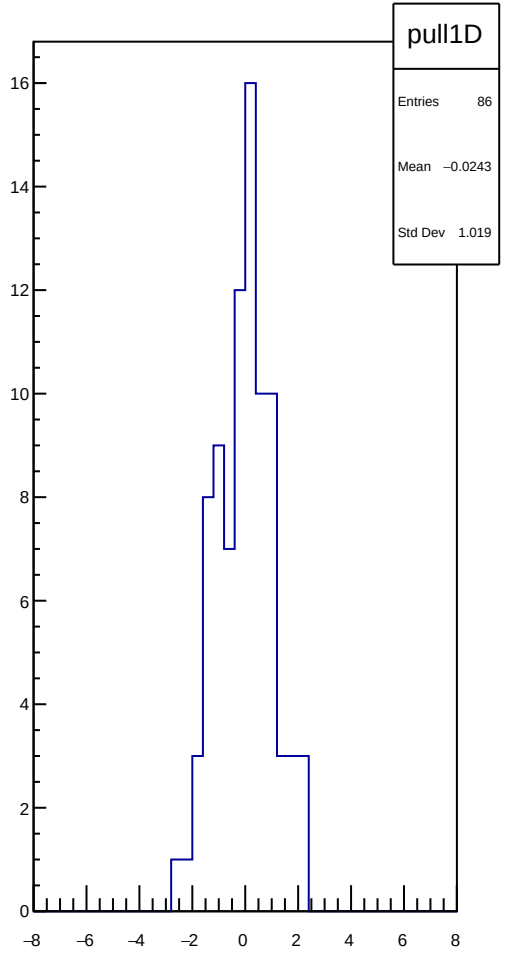

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 3621 / 85
p0 330.1 ± 0.2547
370
360
350
340
330
320
310
300
290

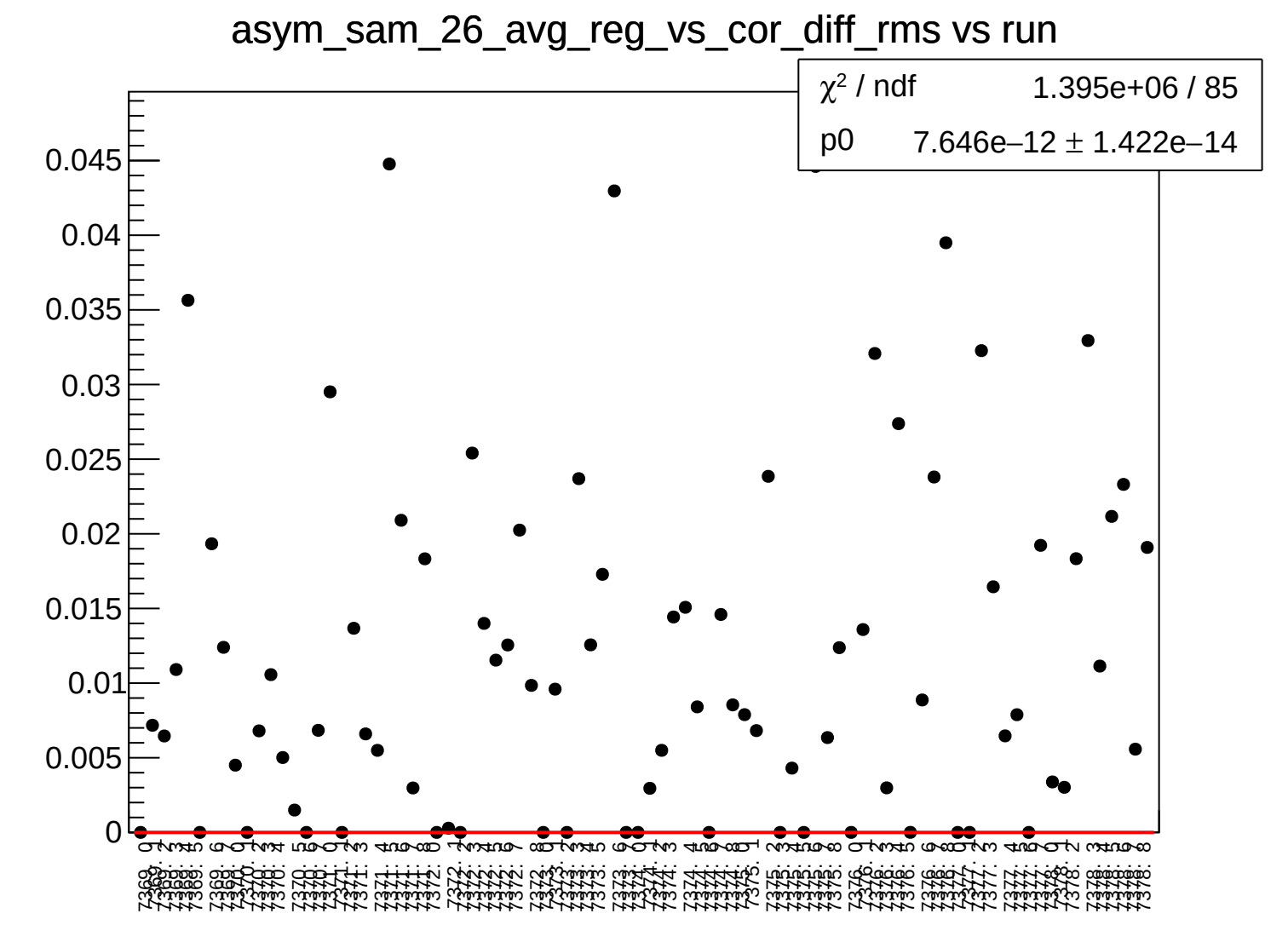

asym_sam_26_avg_mean vs run
χ² / ndf 89.8 / 85
p0 −242.2 ± 360.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 62.48
Std Dev 0
2
1
0
−1
−2

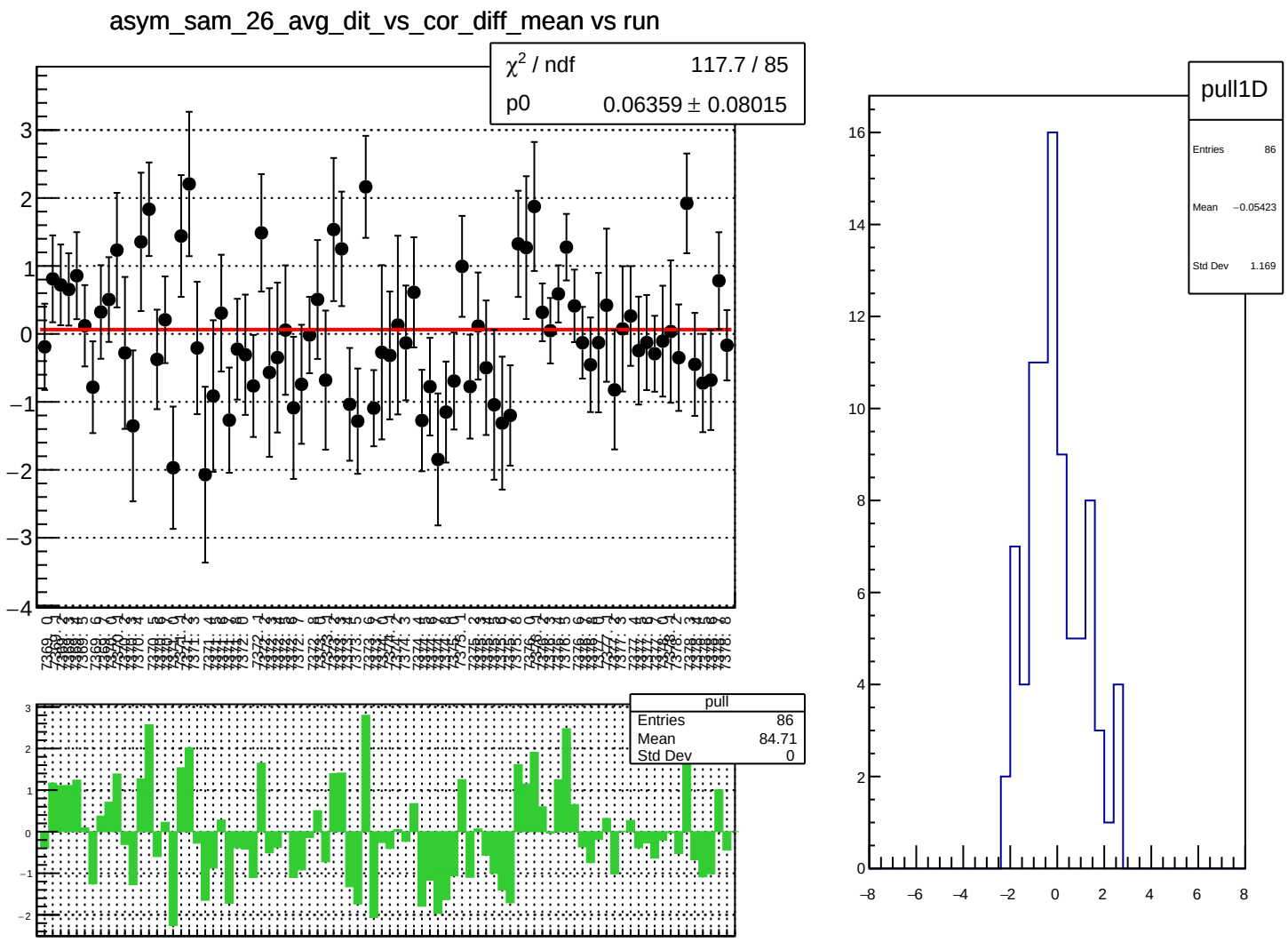

pull1D
Entries 86
Mean 0.01607
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

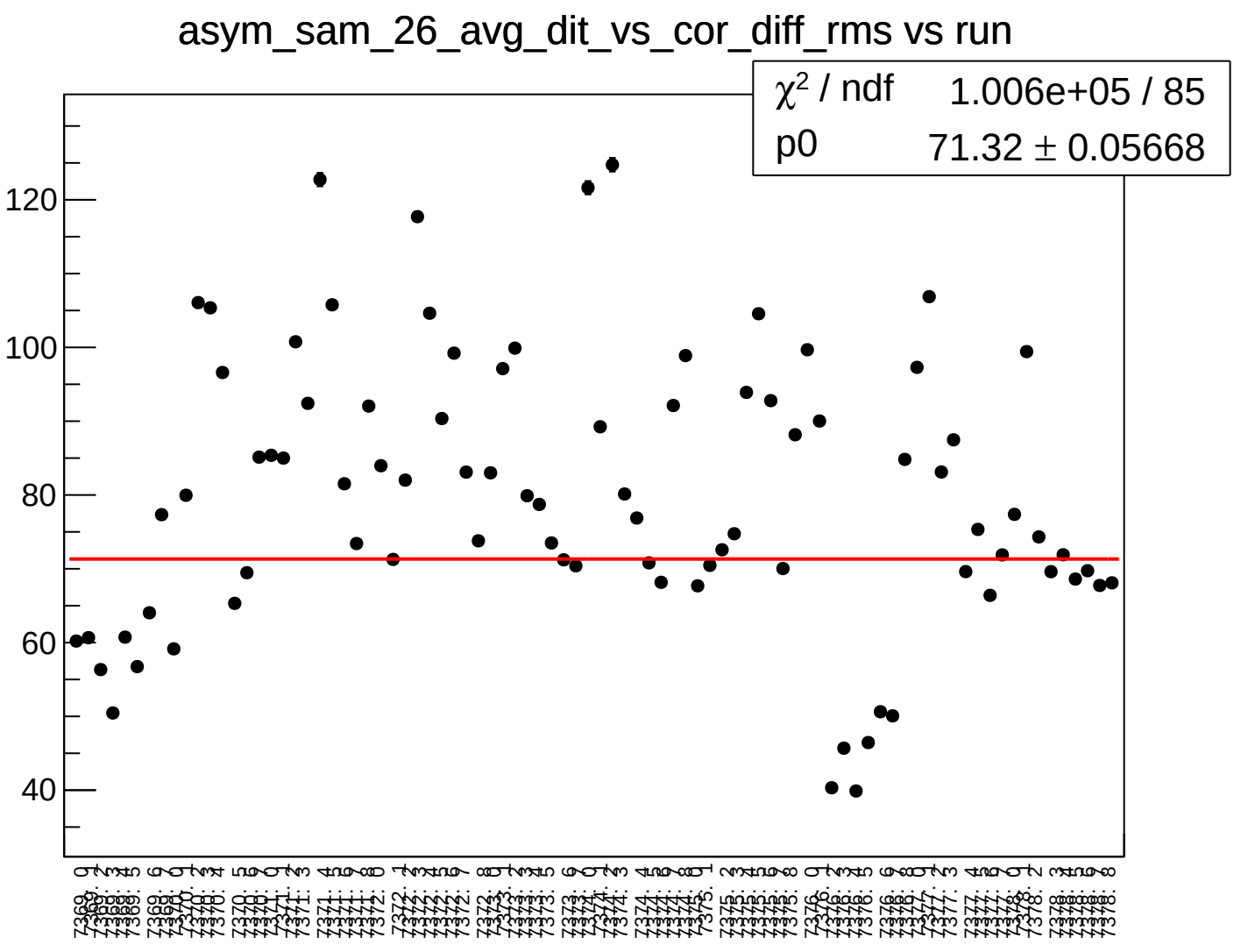

asym_sam_26_avg_rms vs run
χ² / ndf 8776 / 85
p0 329.8 ± 0.2548
400
380
360
340
320
300
280
260

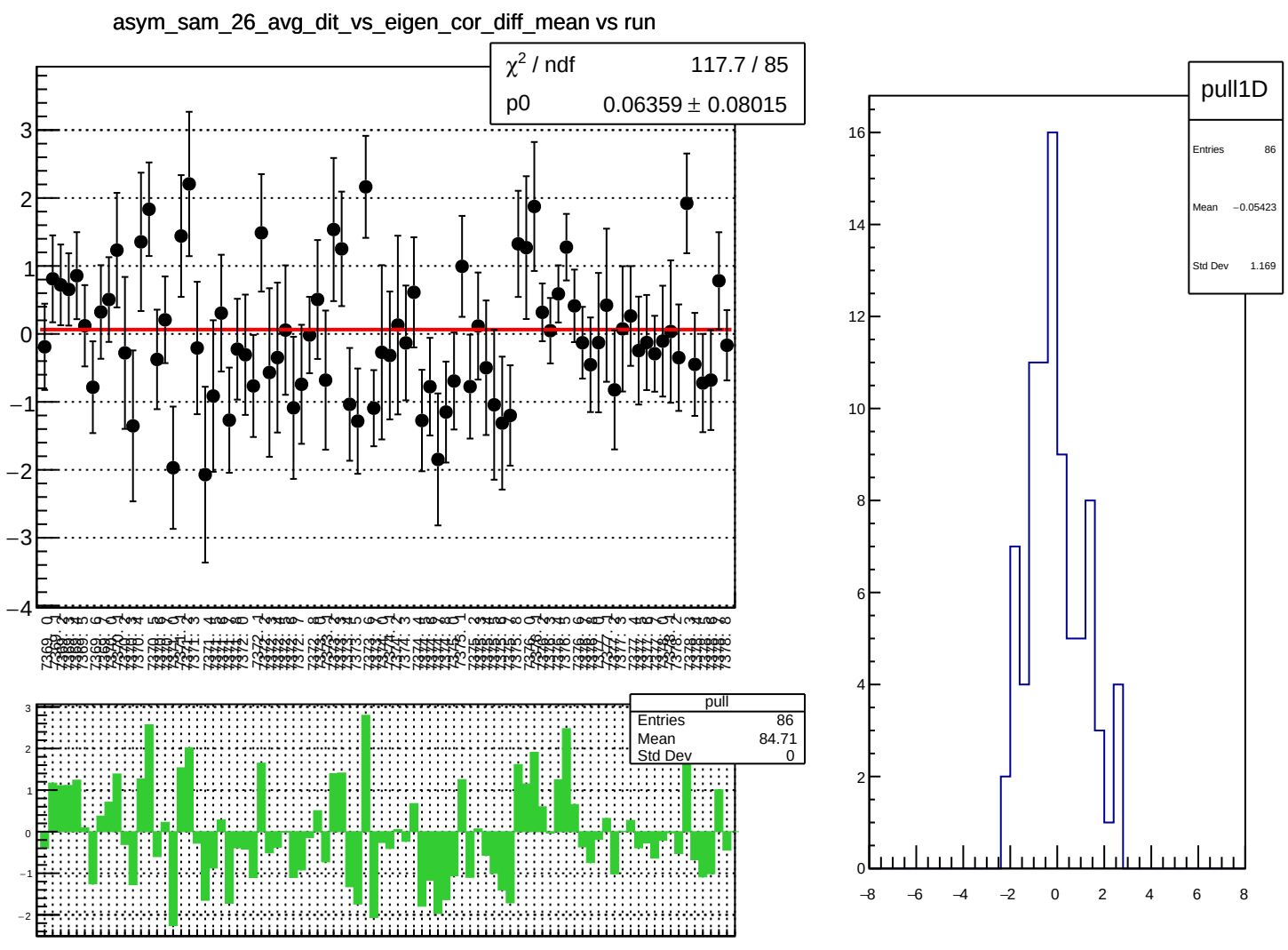

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.26 / 85
p0 −2.739e−14 ± 2.01e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean −103.3
Std Dev 0
2
1
0
−1
−2

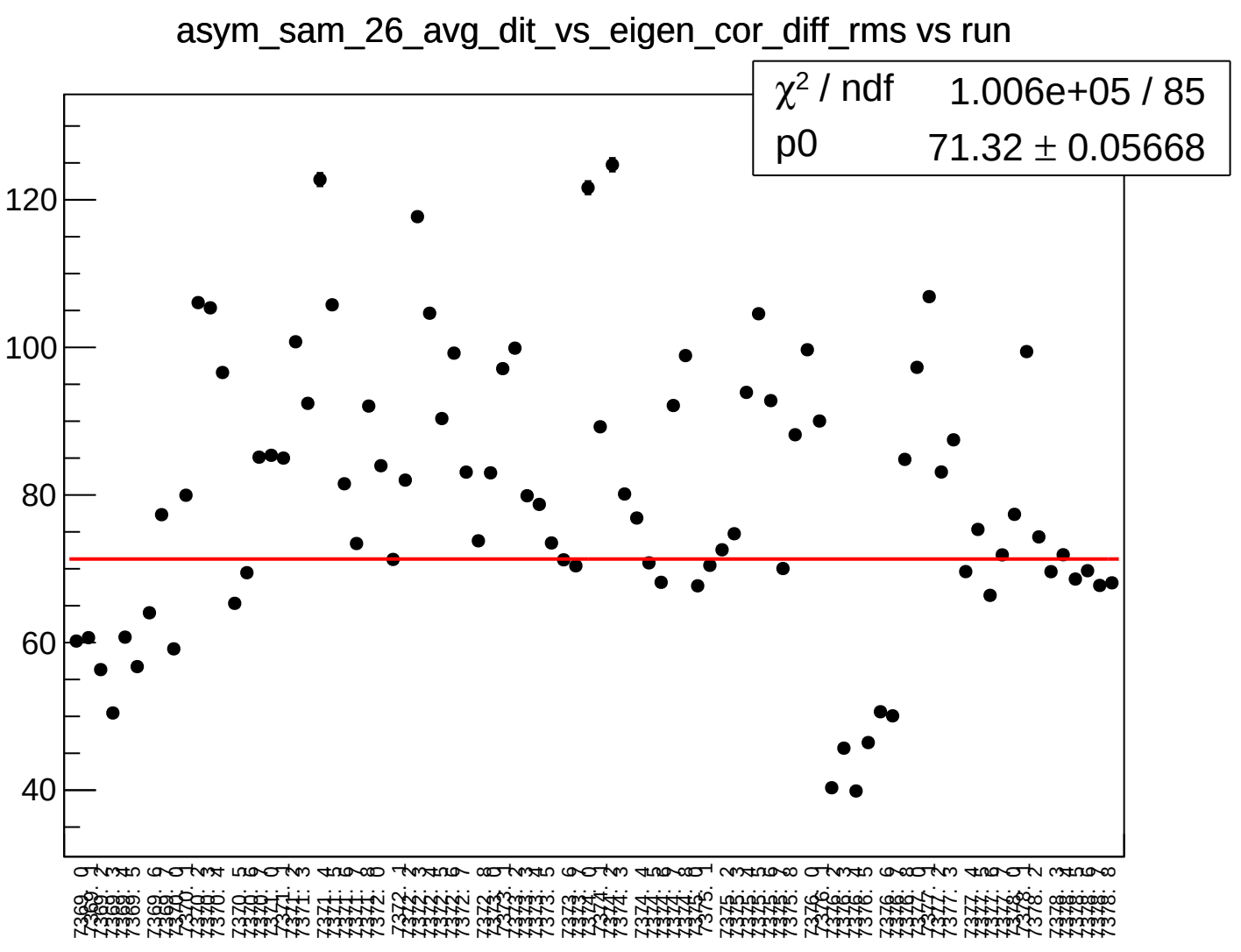

pull1D
Entries 86
Mean −0.0243
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

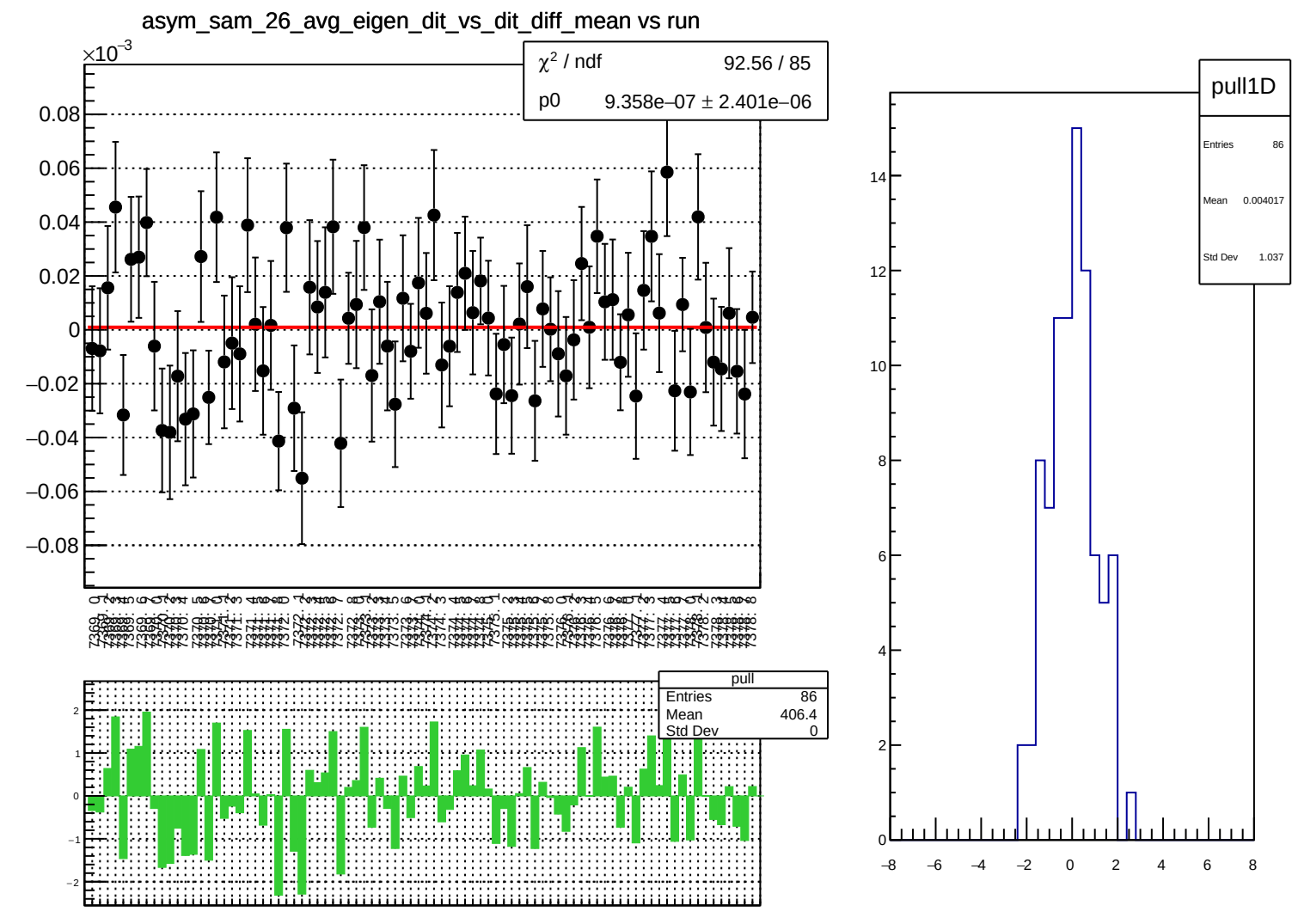

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.395e+06 / 85
p0 7.646e−12 ± 1.422e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

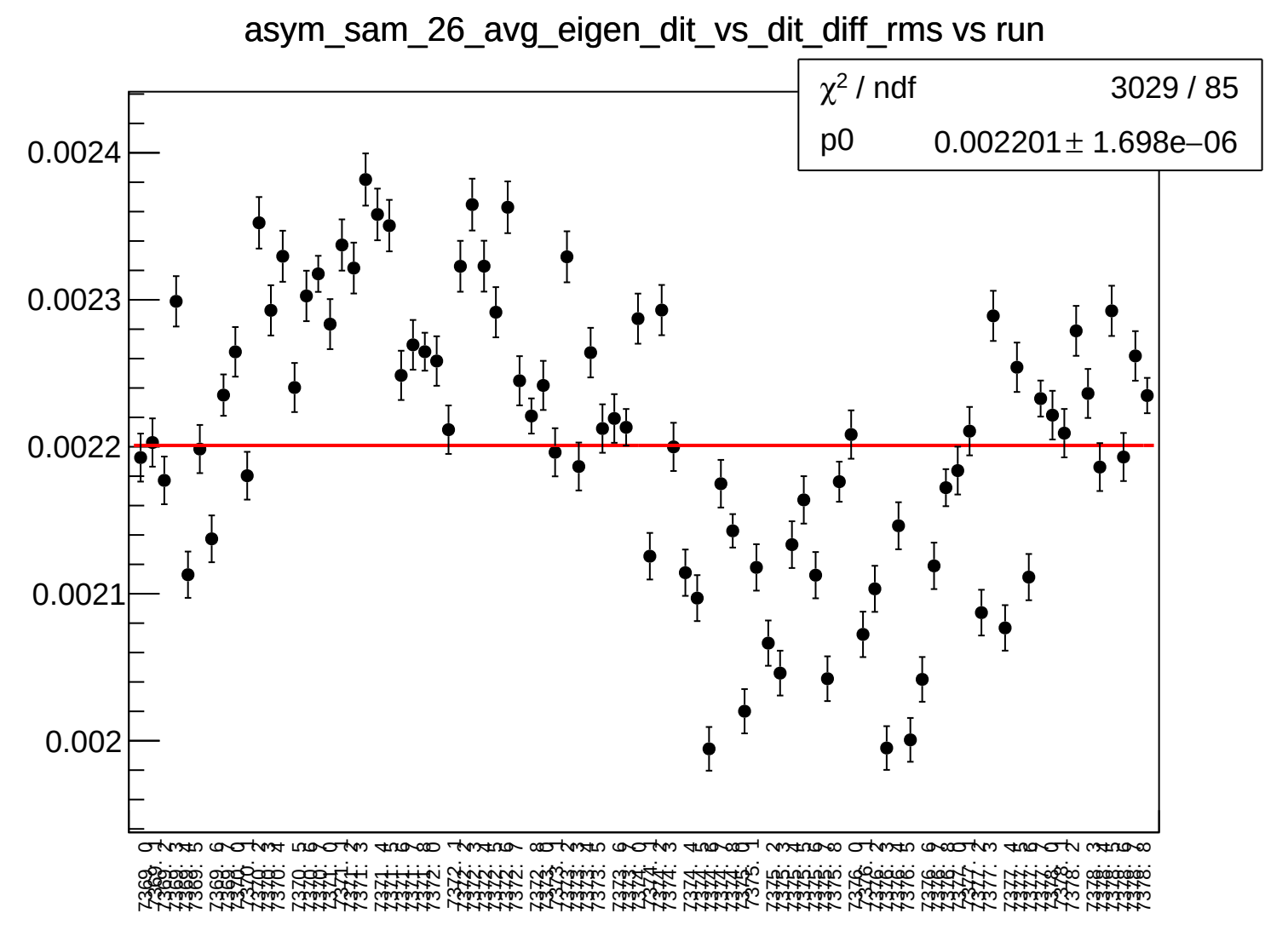

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 117.7 / 85
p0 0.06359 ± 0.08015
pull
Entries 86
Mean 84.71
Std Dev 0
pull1D
Entries 86
Mean −0.05423
Std Dev 1.169

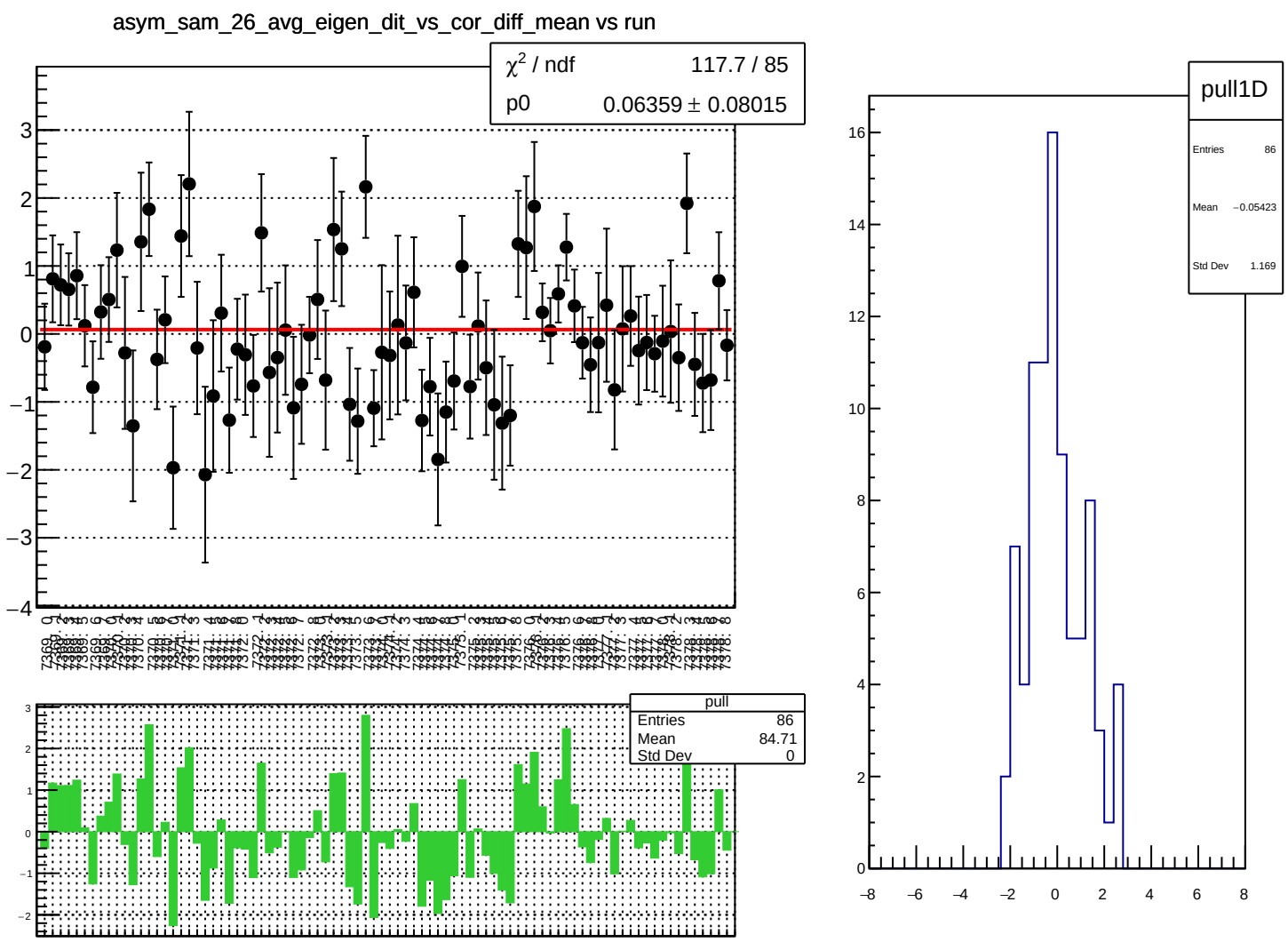

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.006e+05 / 85
p0 71.32 ± 0.05668
120
100
80
60
40

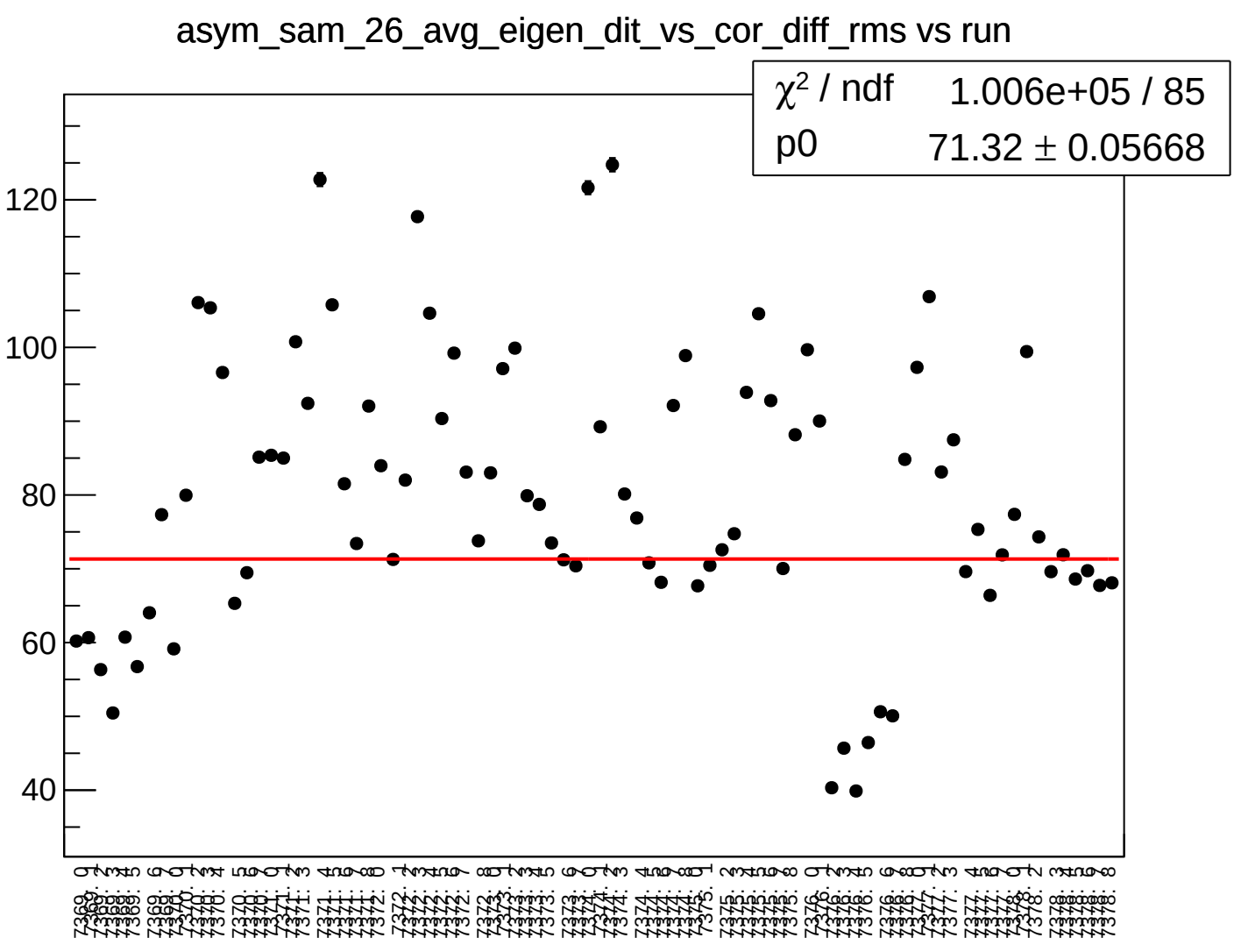

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.7 / 85
p0 0.06359 ± 0.08015
pull
Entries 86
Mean 84.71
Std Dev 0
pull1D
Entries 86
Mean −0.05423
Std Dev 1.169

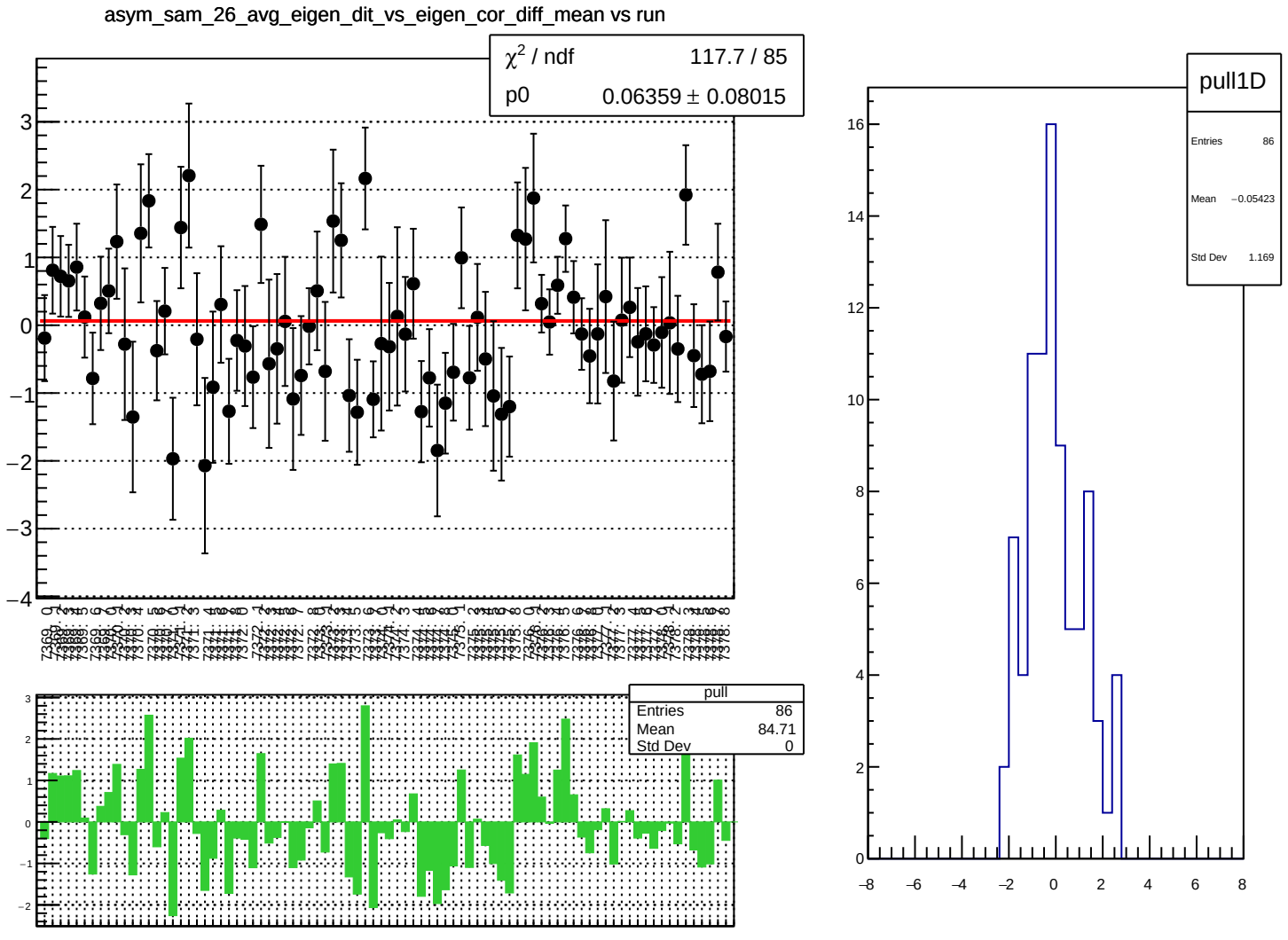

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.006e+05 / 85
p0 71.32 ± 0.05668
120
100
80
60
40

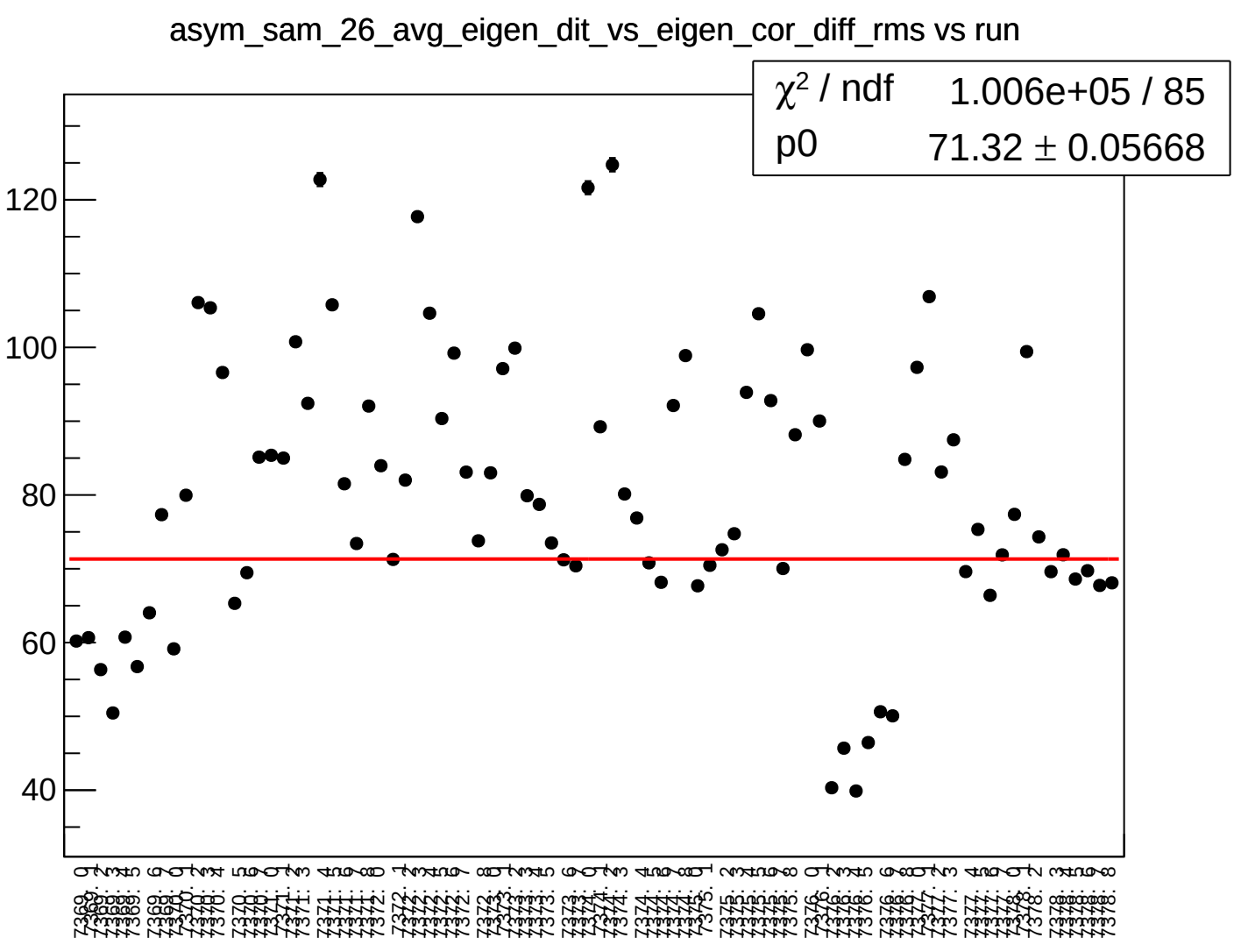

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.56 / 85
p0 9.358e−07 ± 2.401e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean 406.4
Std Dev 0
pull1D
Entries 86
Mean 0.004017
Std Dev 1.037

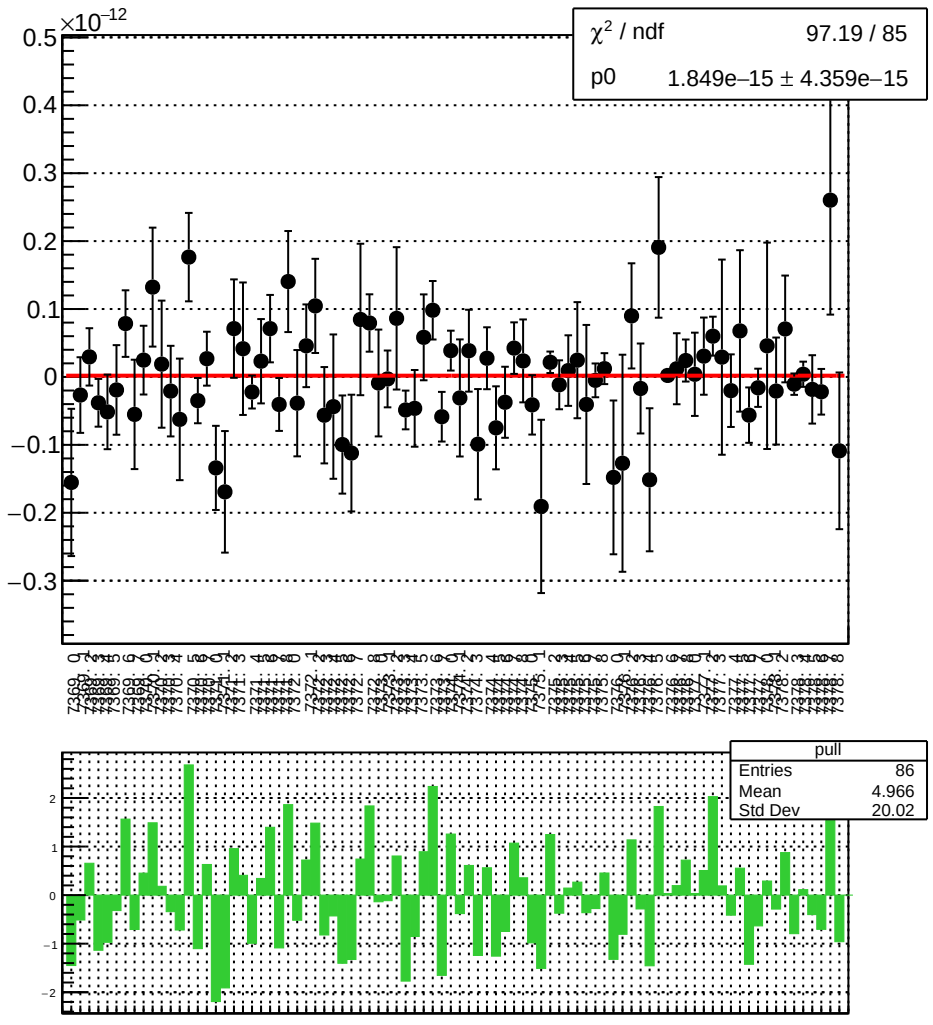

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3029 / 85
p0 0.002201 ± 1.698e−06
0.0024
0.0023
0.0022
0.0021
0.002

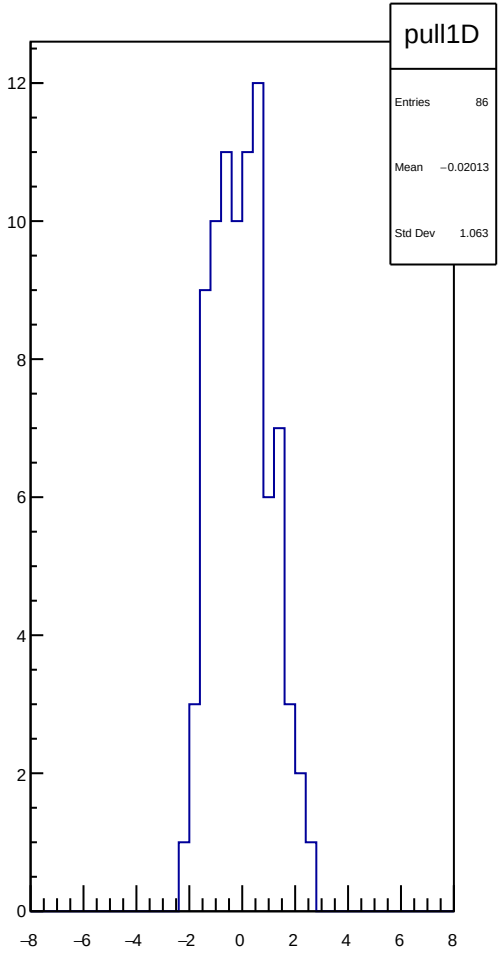

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.7 / 85
p0 0.06359 ± 0.08015
pull
Entries 86
Mean 84.71
Std Dev 0
pull1D
Entries 86
Mean −0.05423
Std Dev 1.169

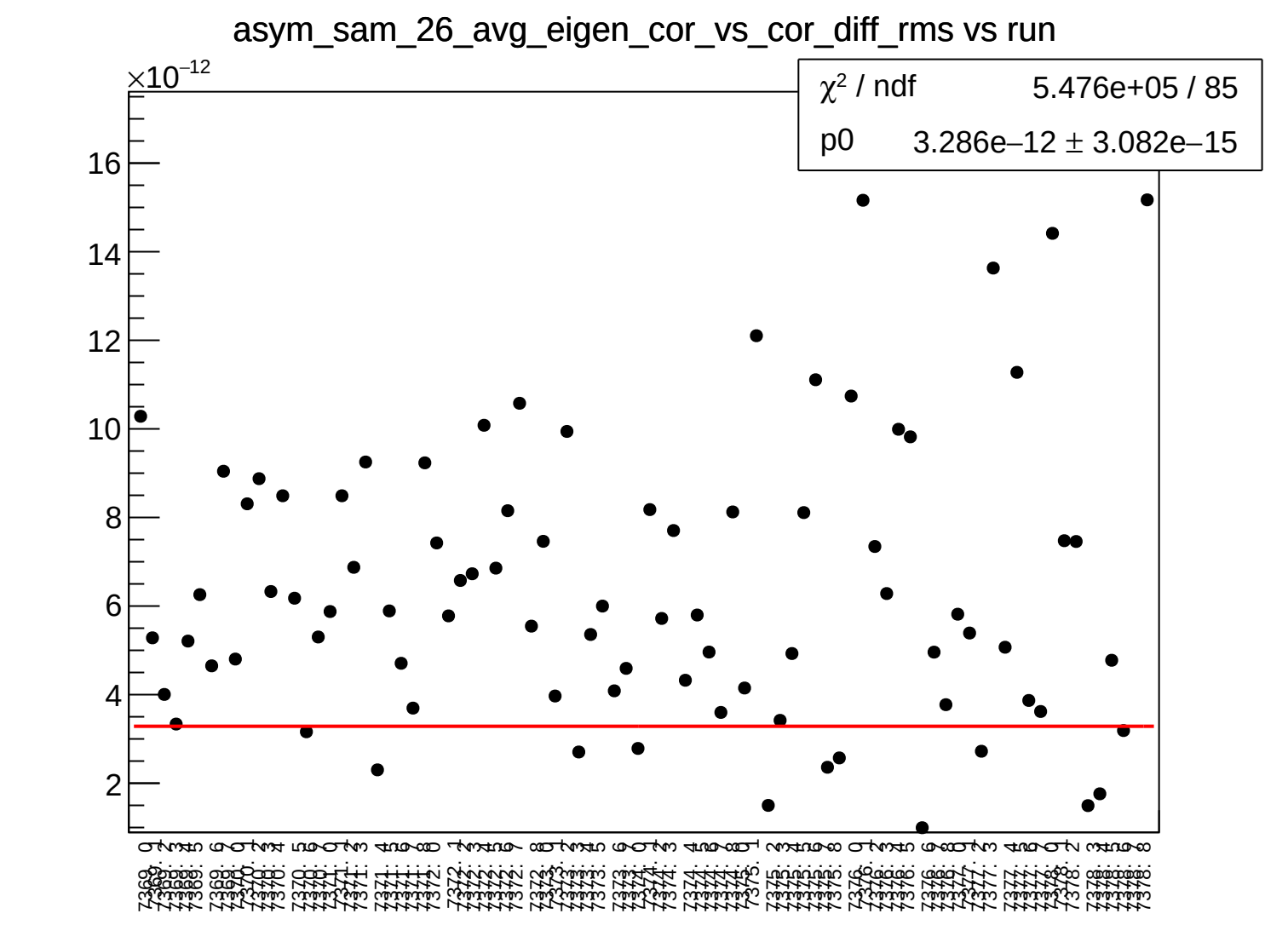

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.006e+05 / 85
p0 71.32 ± 0.05668
120
100
80
60
40

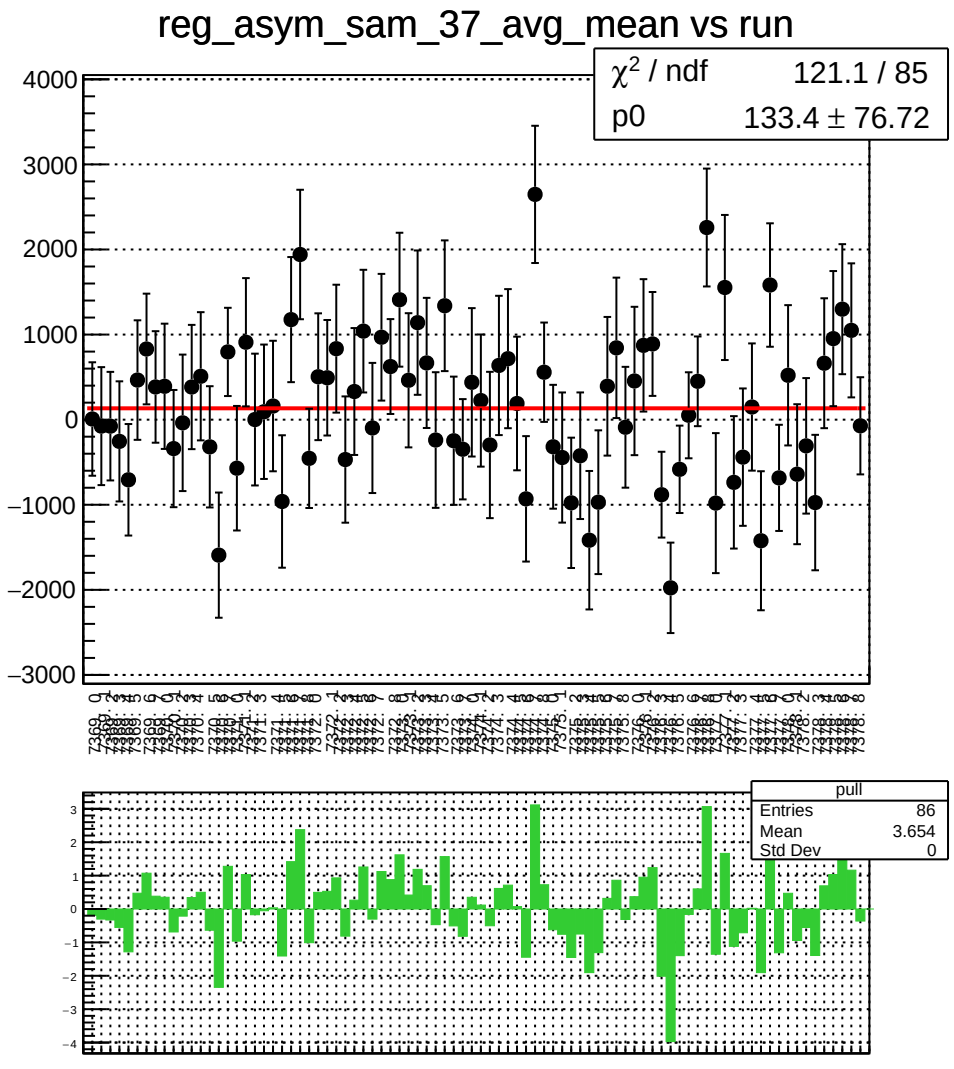

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.7 / 85
p0 0.06359 ± 0.08015
pull
Entries 86
Mean 84.71
Std Dev 0
pull1D
Entries 86
Mean −0.05423
Std Dev 1.169

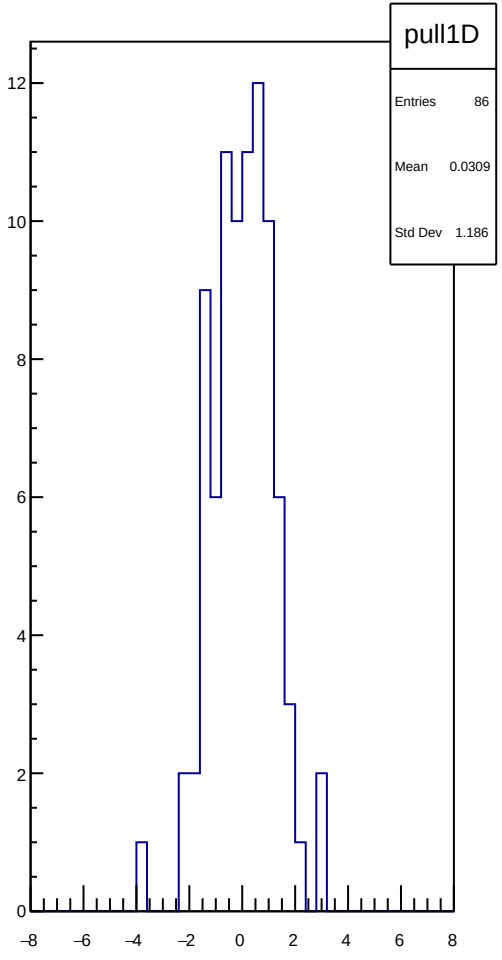

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.006e+05 / 85
p0 71.32 ± 0.05668
120
100
80
60
40

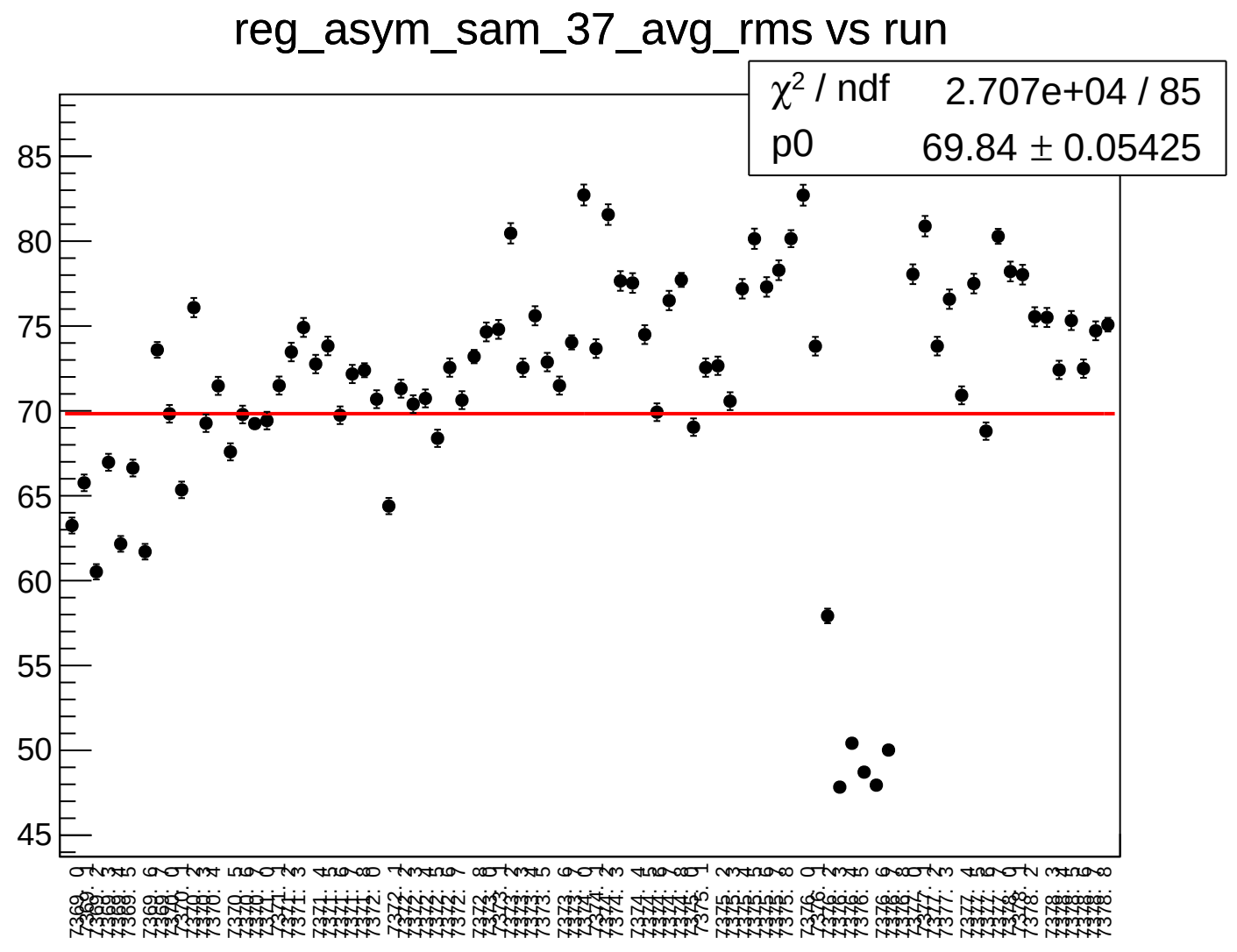

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.19 / 85
p0 1.849e−15 ± 4.359e−15
pull
Entries 86
Mean 4.966
Std Dev 20.02

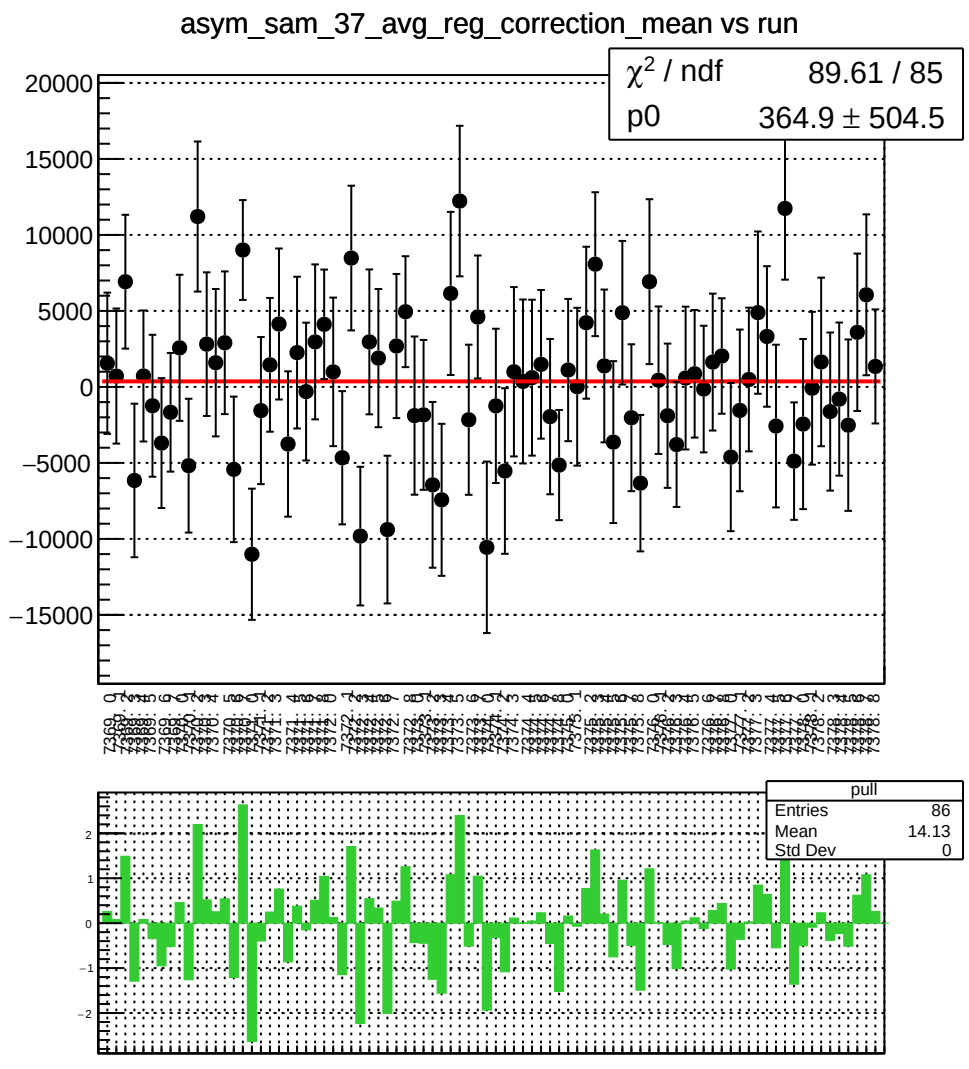

pull1D
Entries 86
Mean −0.02013
Std Dev 1.063

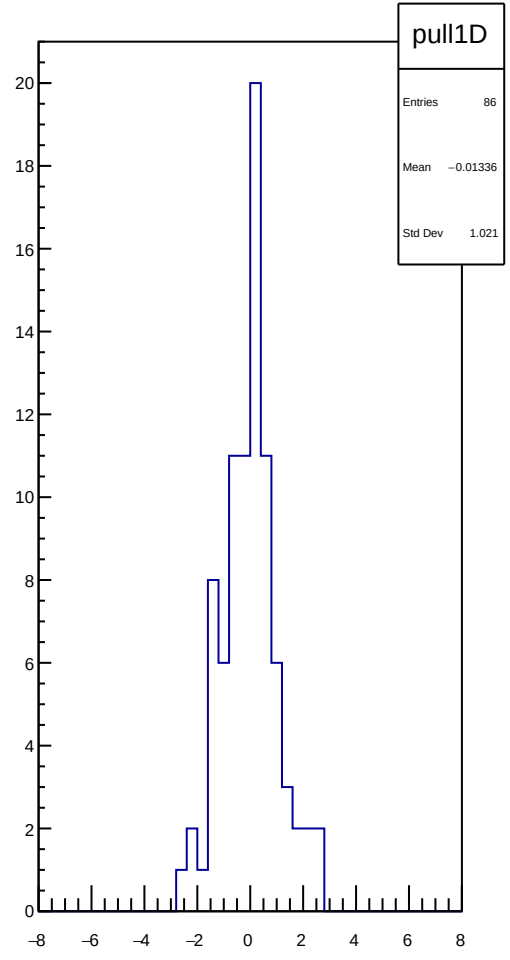

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.476e+05 / 85
p0 3.286e−12 ± 3.082e−15
16
14
12
10
8
6
4
2

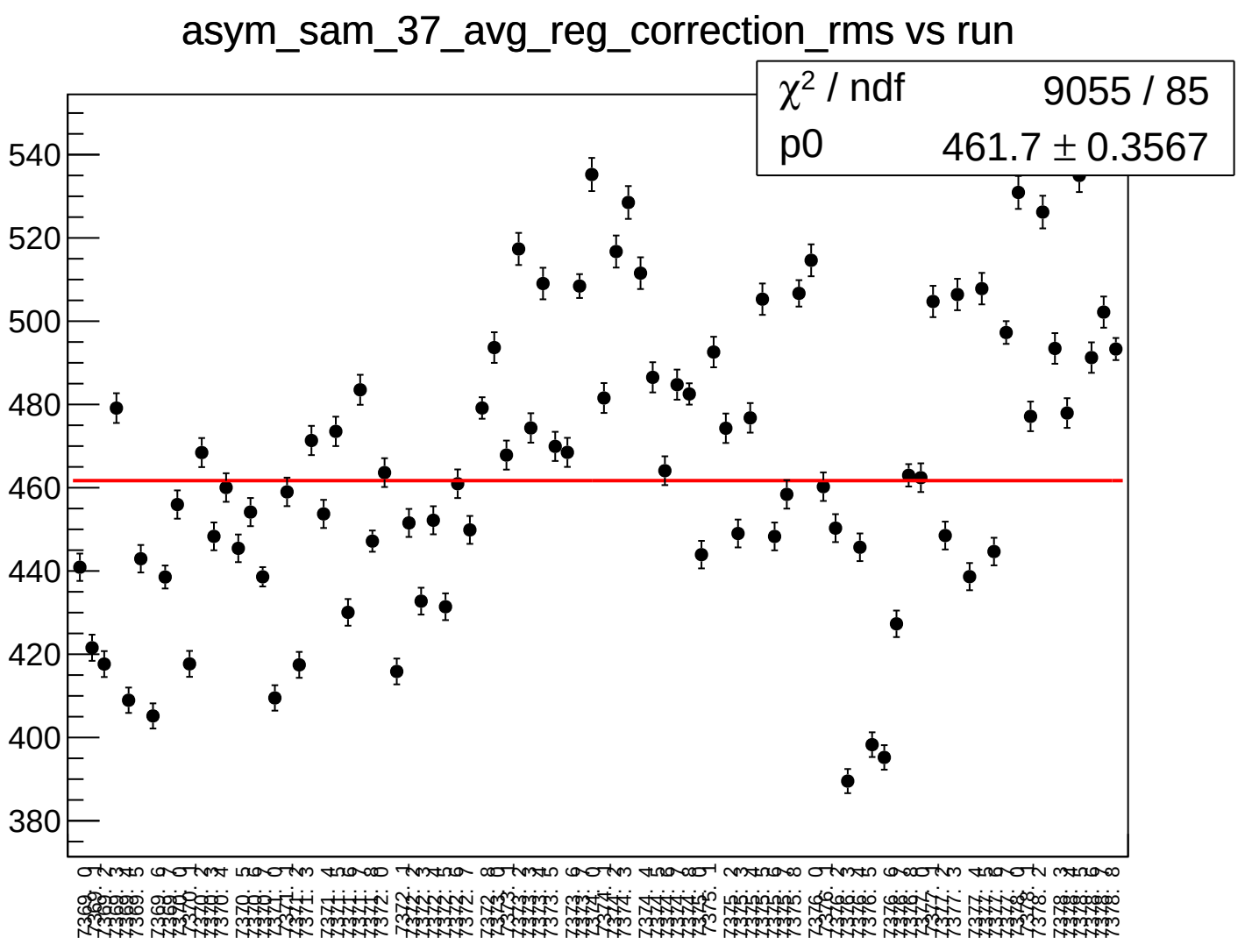

reg_asym_sam_37_avg_mean vs run
χ^2 / ndf 121.1 / 85
p0 133.4 ± 76.72
pull
Entries 86
Mean 3.654
Std Dev 0

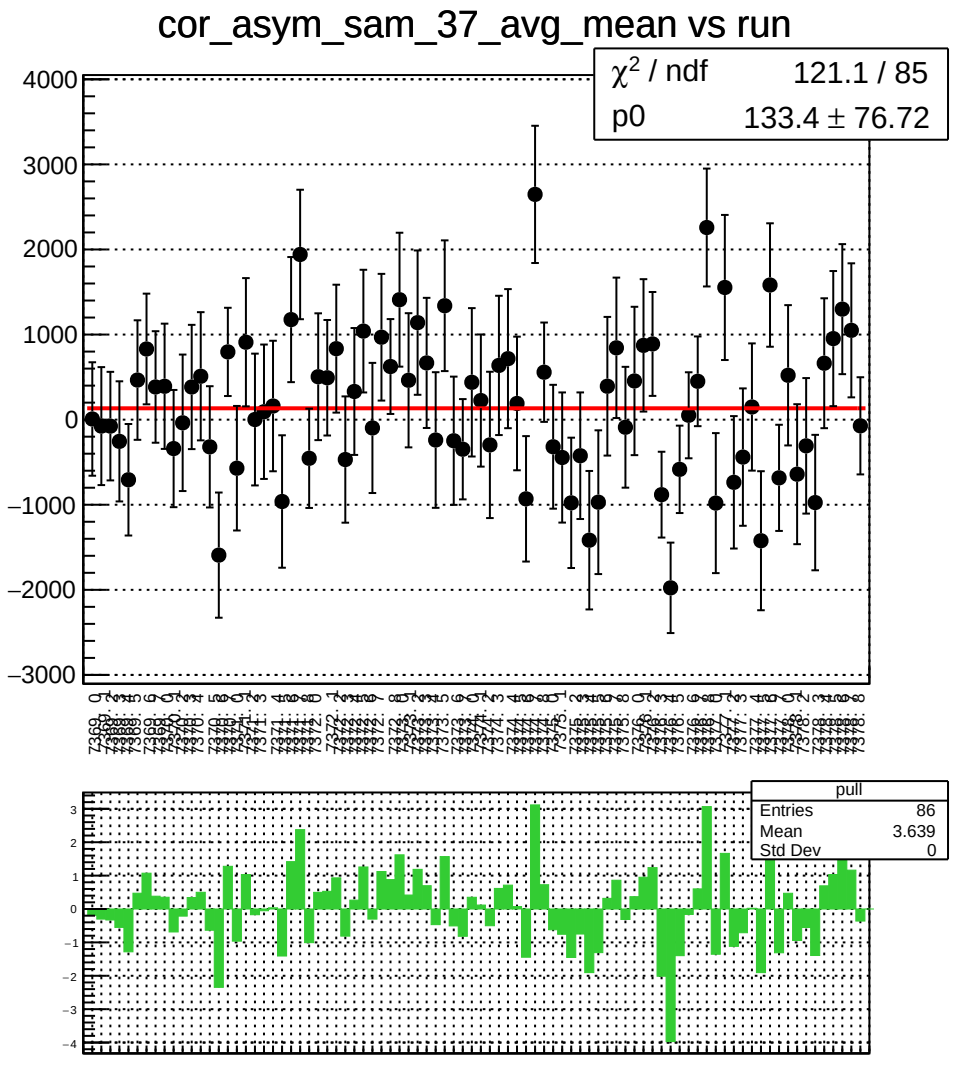

pull1D
Entries 86
Mean 0.0309
Std Dev 1.186

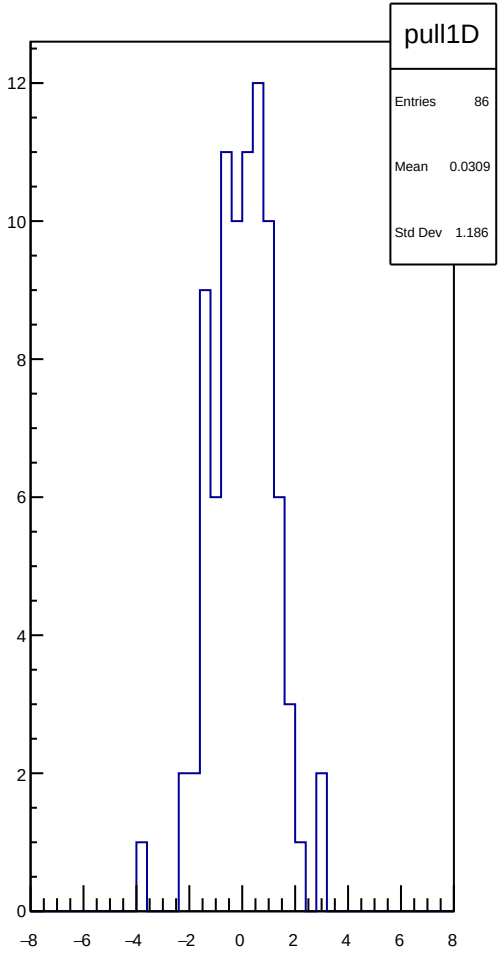

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.707e+04 / 85
p0 69.84 ± 0.05425
85
80
75
70
65
60
55
50
45

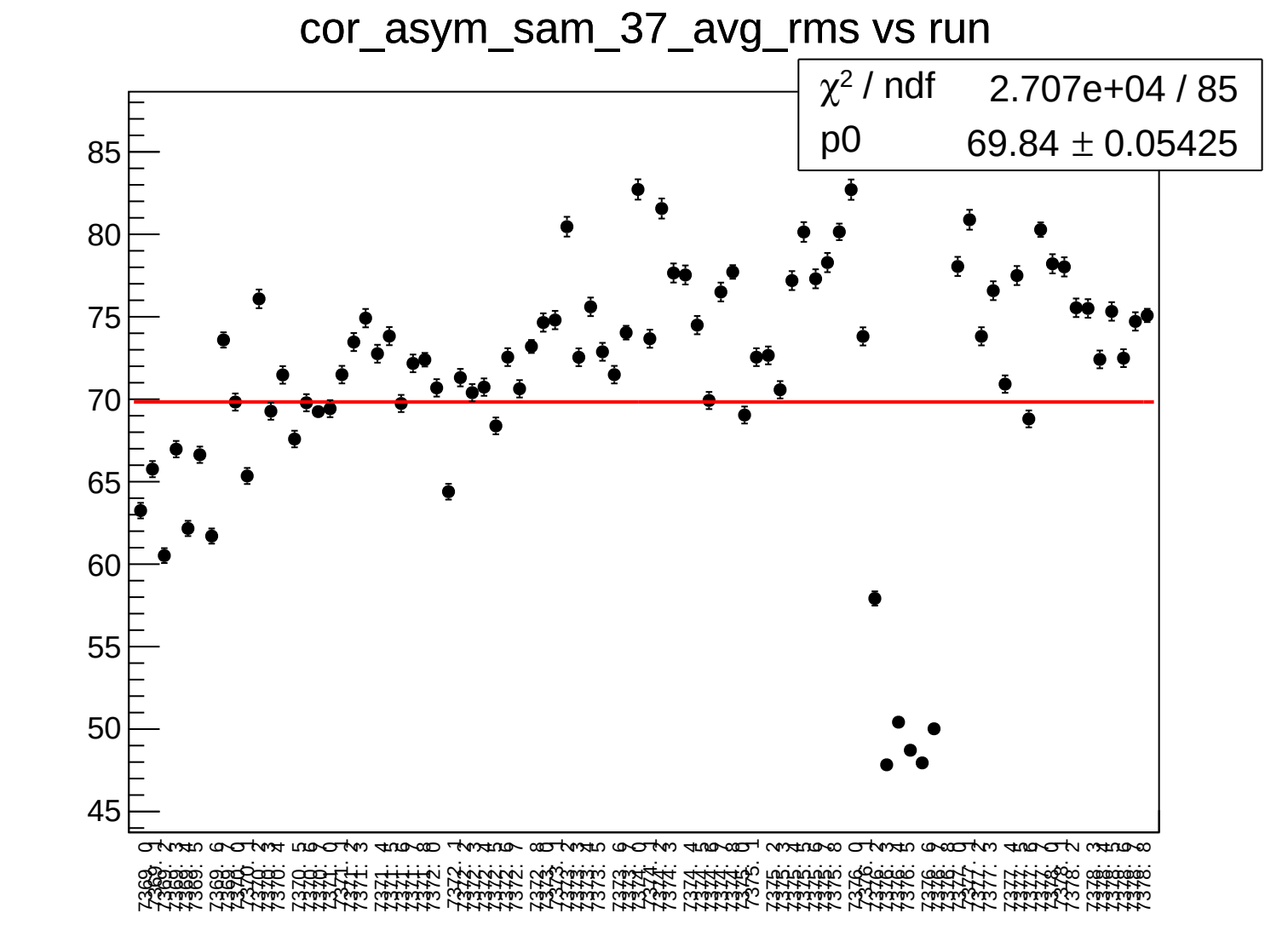

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 89.61 / 85
p0 364.9 ± 504.5
pull
Entries 86
Mean 14.13
Std Dev 0

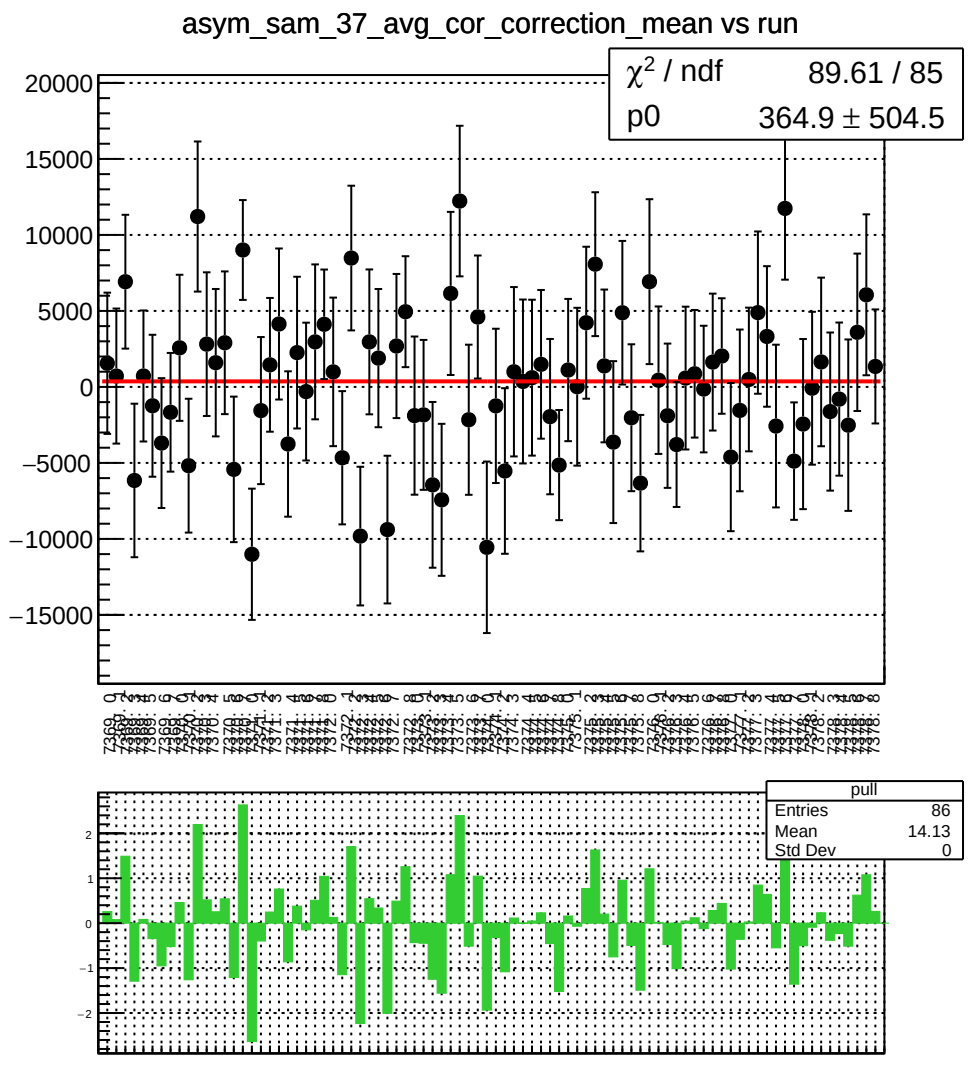

pull1D
Entries 86
Mean −0.01336
Std Dev 1.021

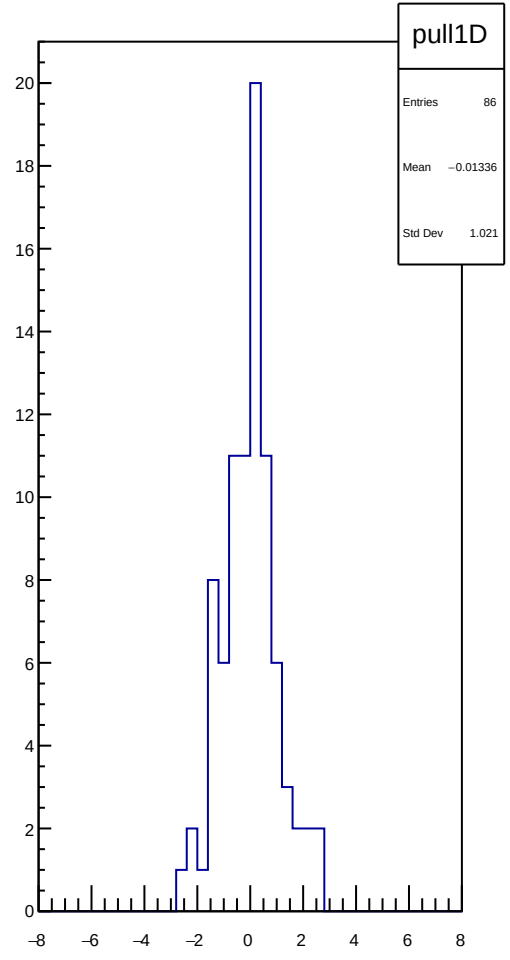

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 9055 / 85
p0 461.7 ± 0.3567
540
520
500
480
460
440
420
400
380

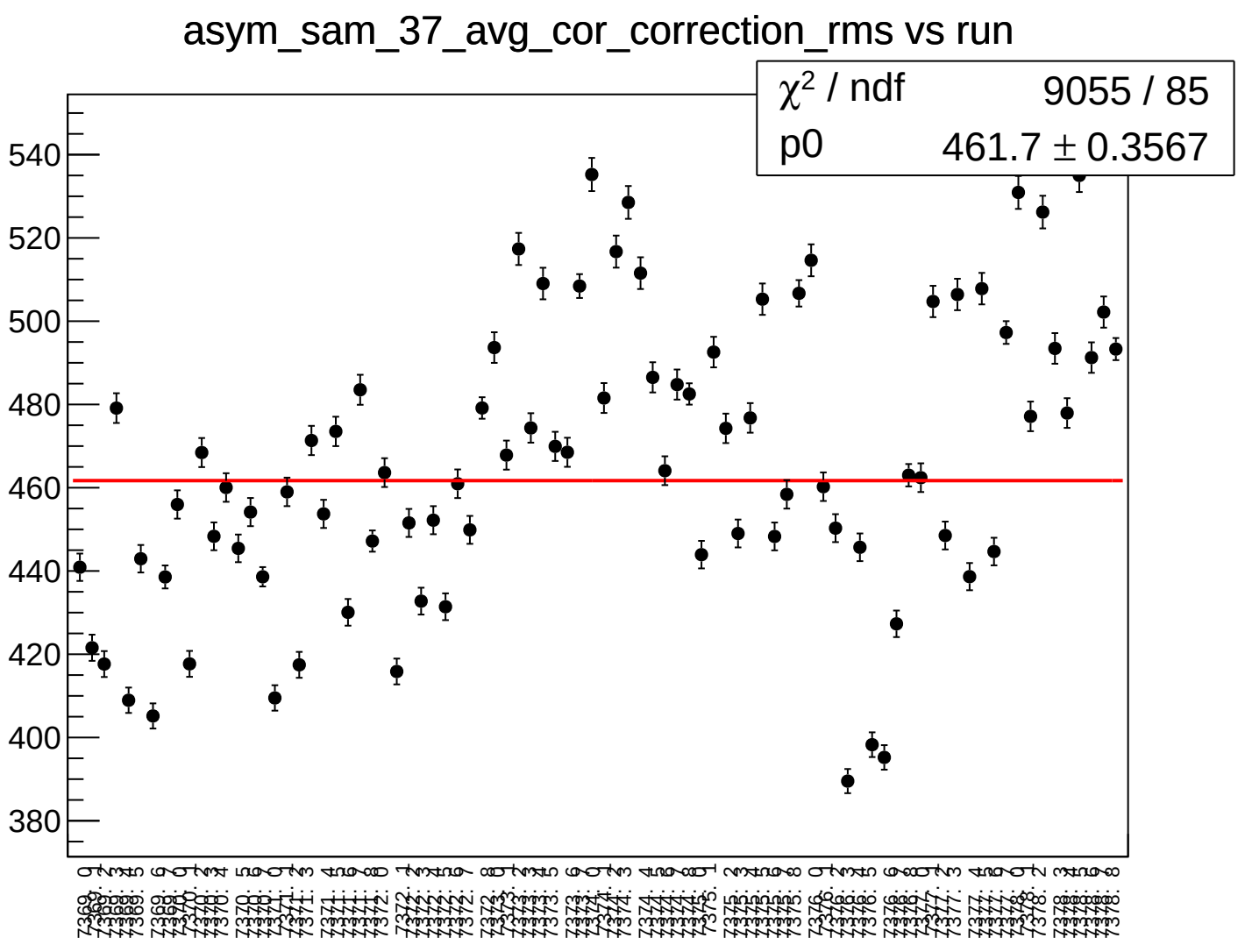

cor_asym_sam_37_avg_mean vs run
χ² / ndf 121.1 / 85
p0 133.4 ± 76.72
pull
Entries 86
Mean 3.639
Std Dev 0

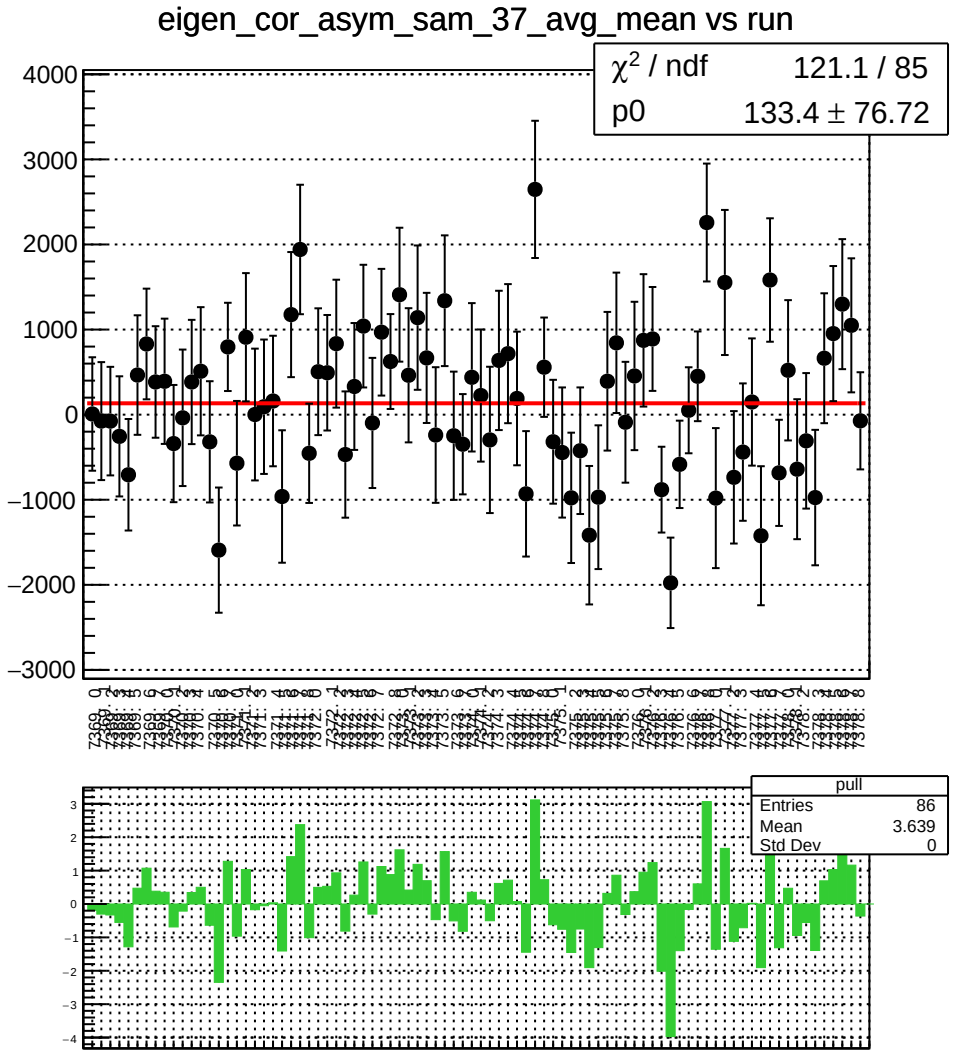

pull1D
Entries 86
Mean 0.0309
Std Dev 1.186

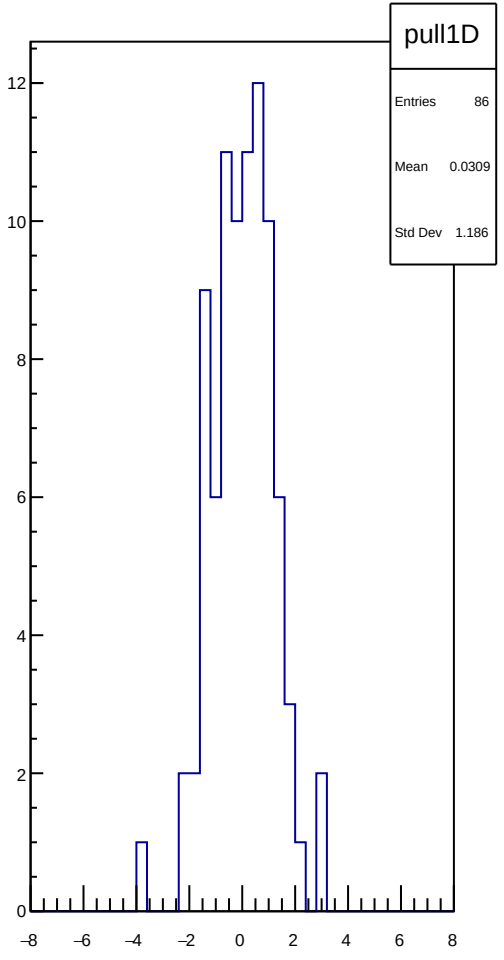

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.707e+04 / 85
p0 69.84 ± 0.05425
85
80
75
70
65
60
55
50
45

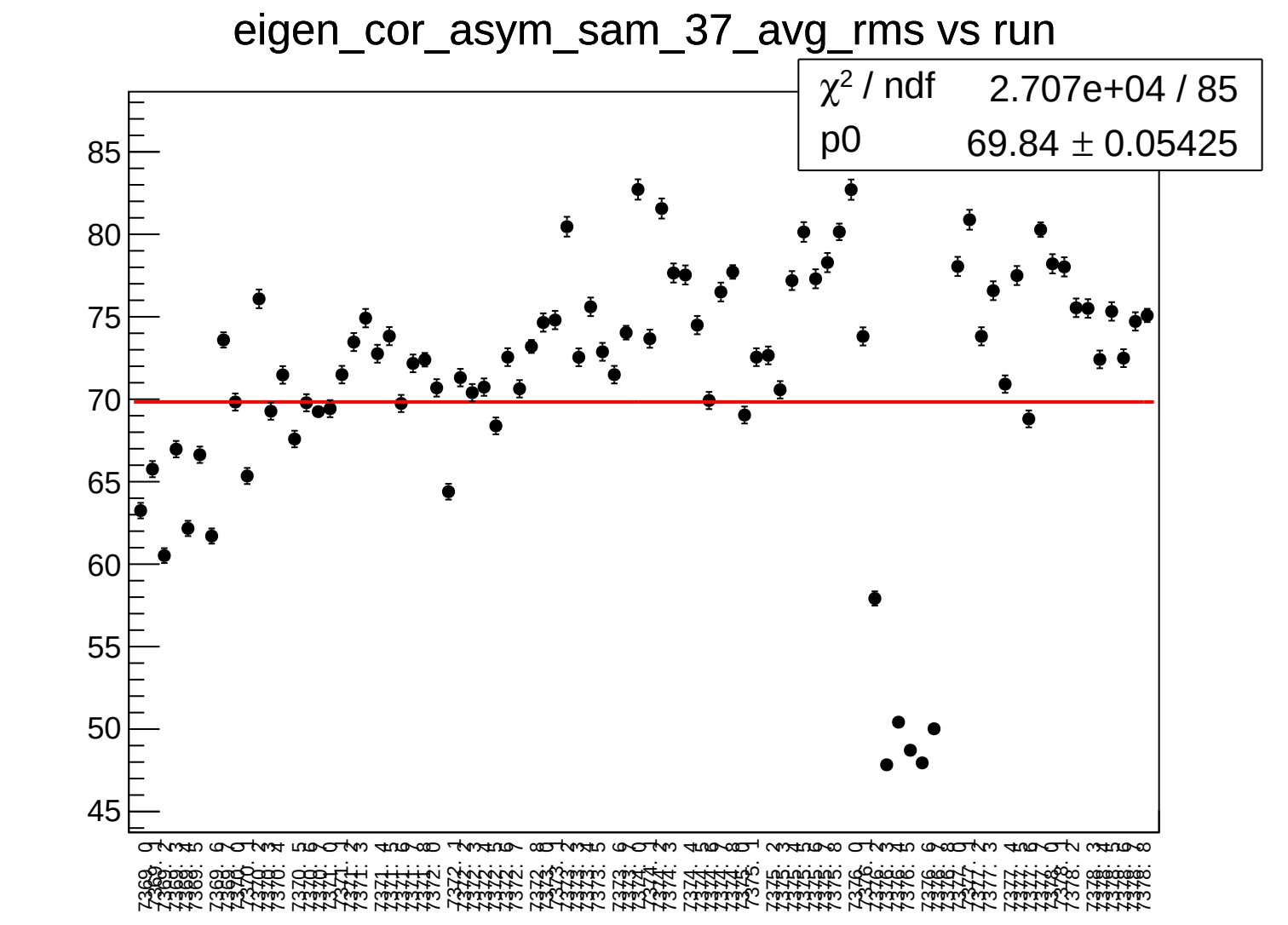

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 89.61 / 85
p0 364.9 ± 504.5
pull
Entries 86
Mean 14.13
Std Dev 0

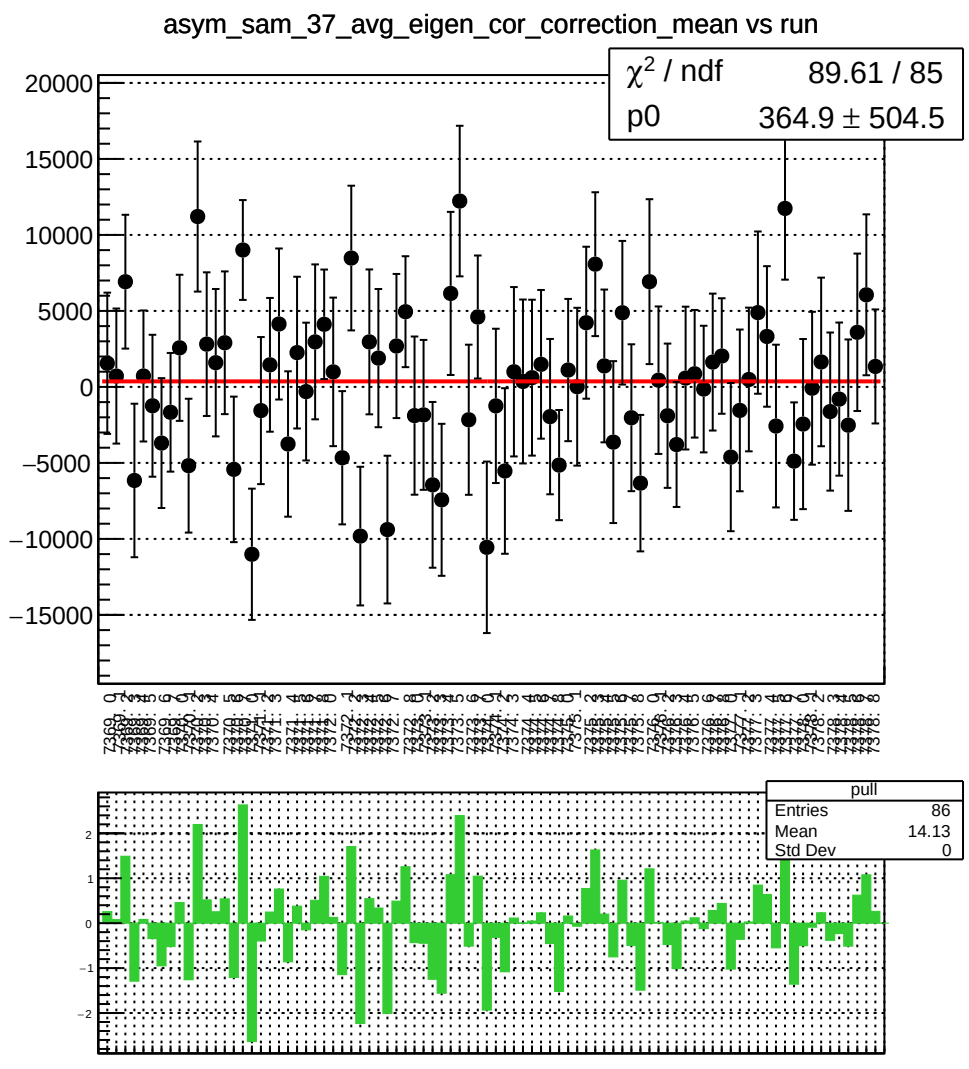

pull1D
Entries 86
Mean −0.01336
Std Dev 1.021

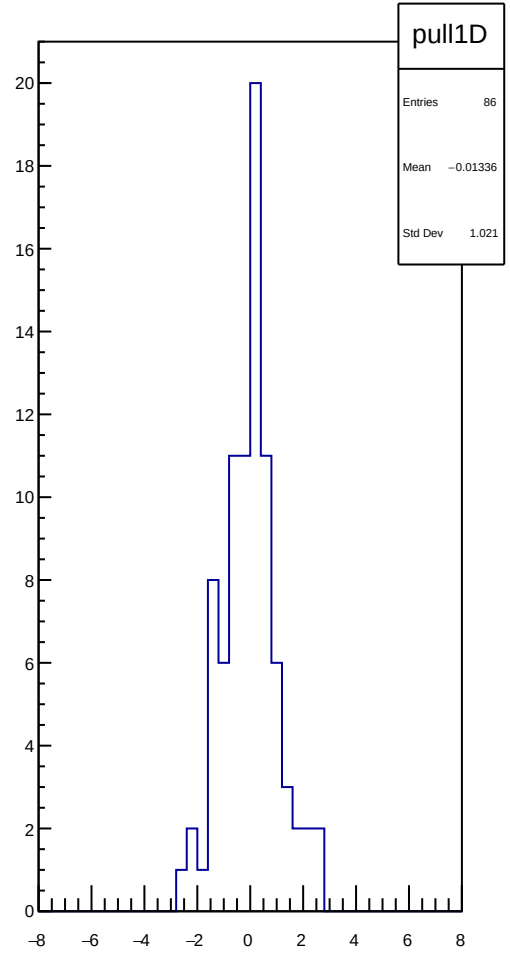

asym_sam_37_avg_cor_correction_rms vs run
χ^2 / ndf 9055 / 85
p0 461.7 ± 0.3567
540
520
500
480
460
440
420
400
380

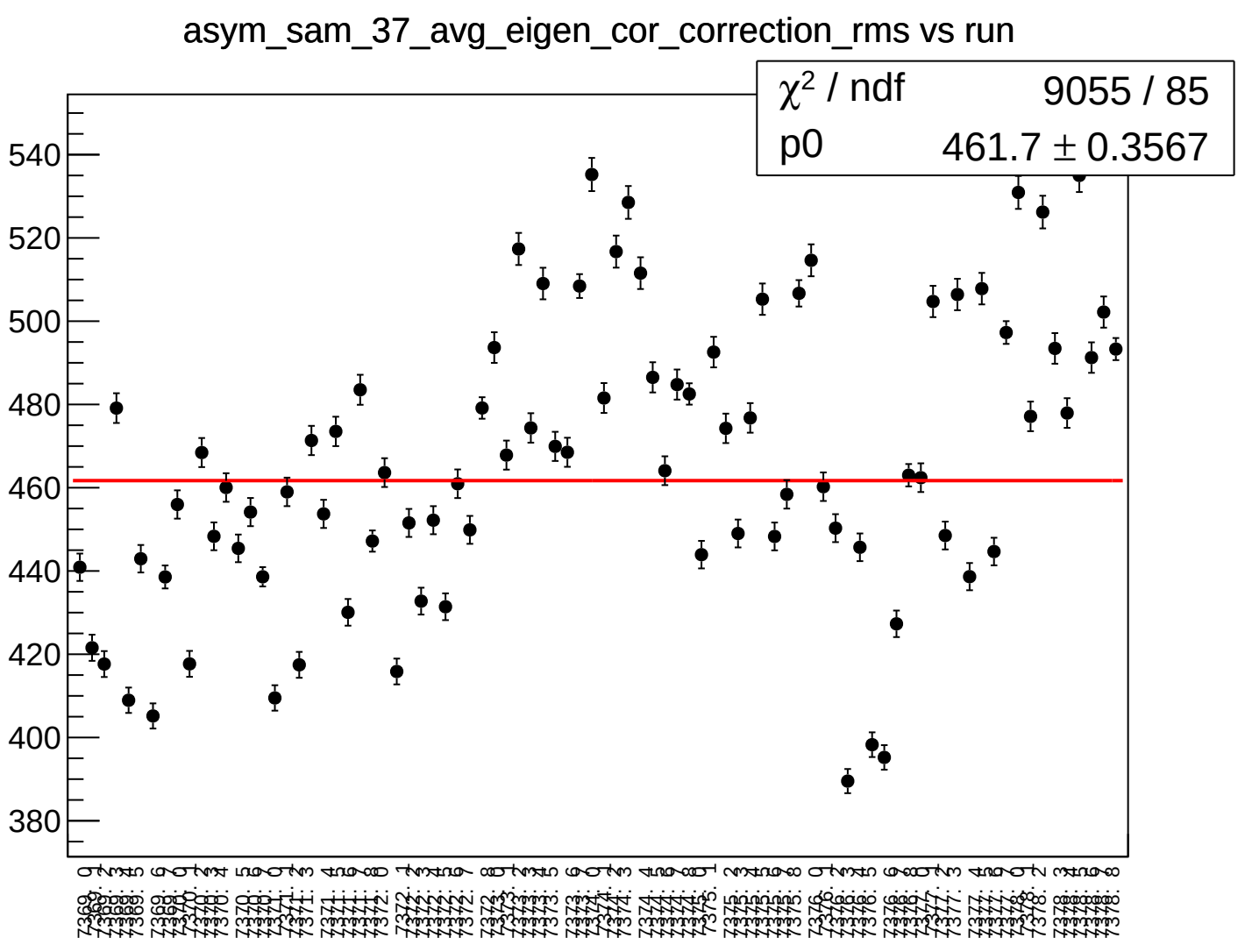

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 121.1 / 85
p0 133.4 ± 76.72
pull
Entries 86
Mean 3.639
Std Dev 0

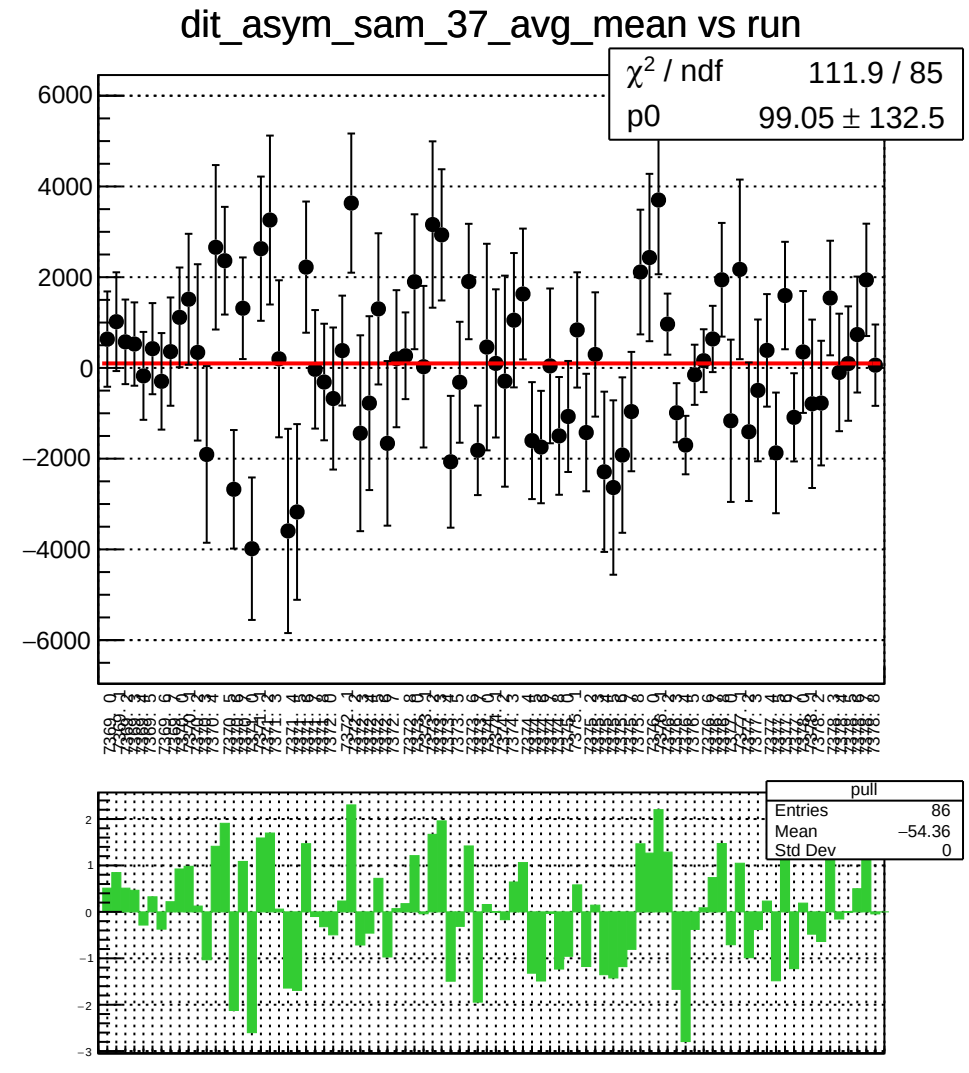

pull1D
Entries 86
Mean 0.0309
Std Dev 1.186

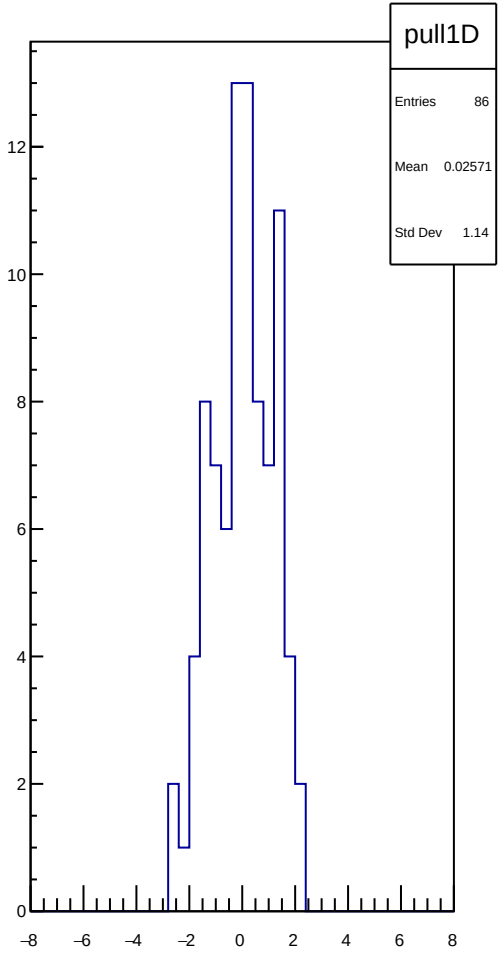

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.707e+04 / 85
p0 69.84 ± 0.05425
85
80
75
70
65
60
55
50
45

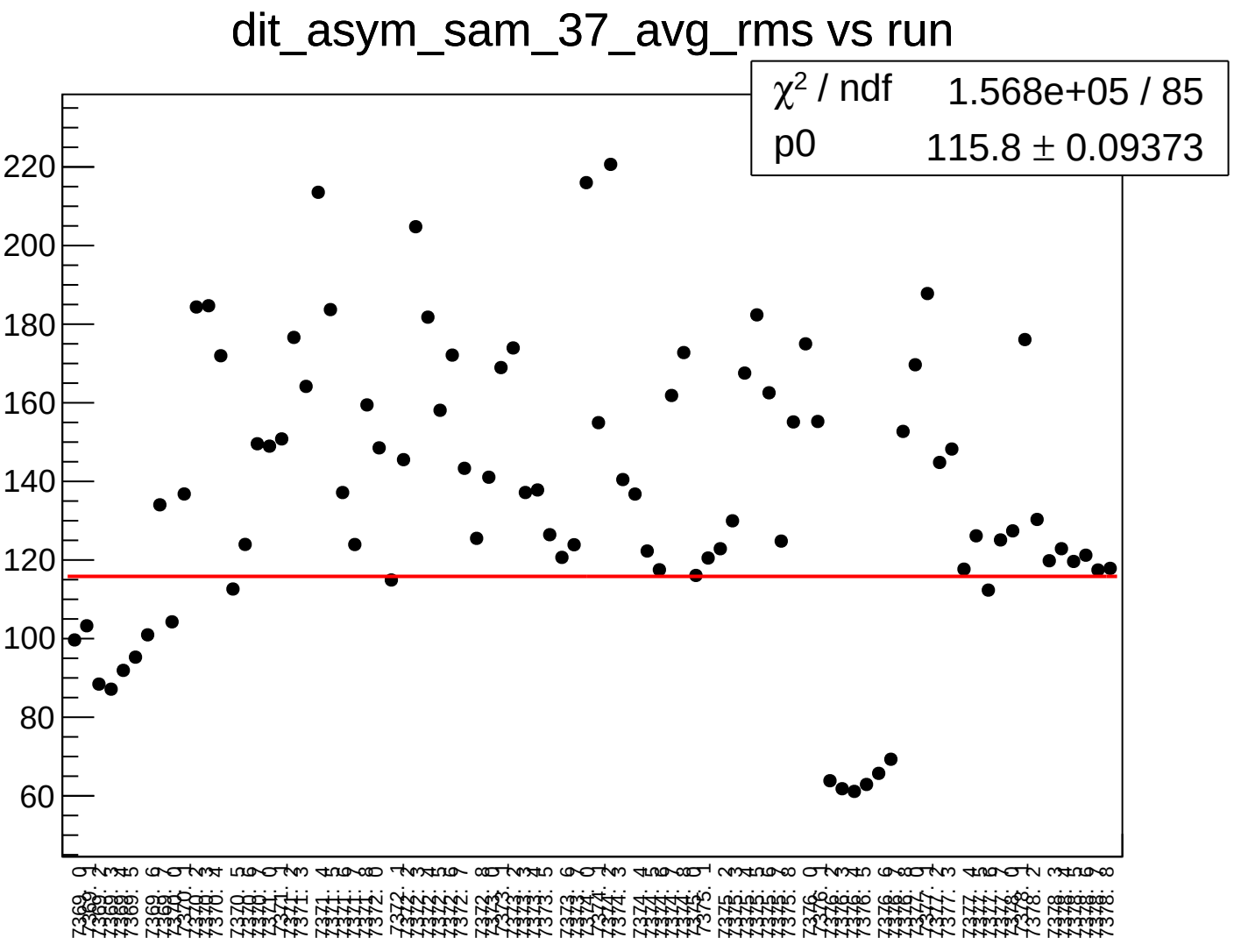

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.61 / 85
p0 364.9 ± 504.5
pull
Entries 86
Mean 14.13
Std Dev 0

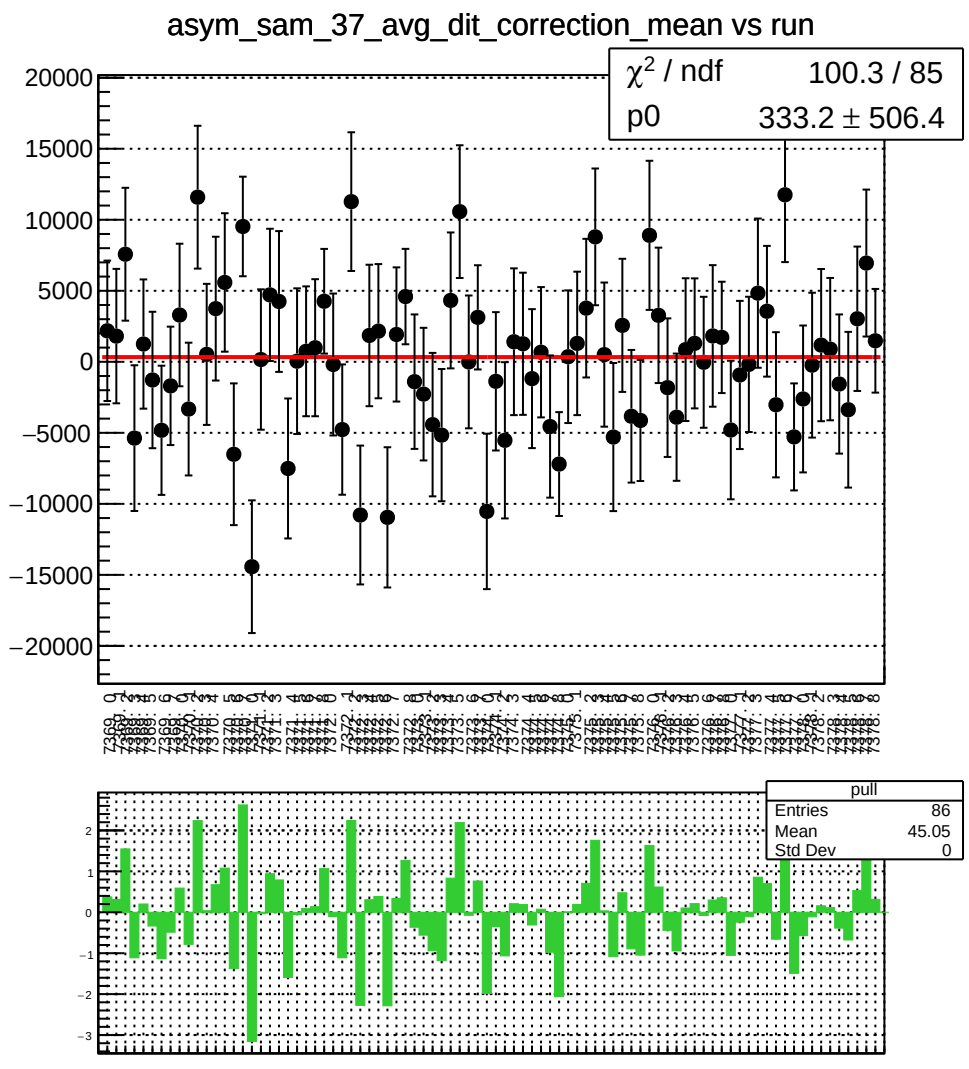

pull1D
Entries 86
Mean −0.01336
Std Dev 1.021

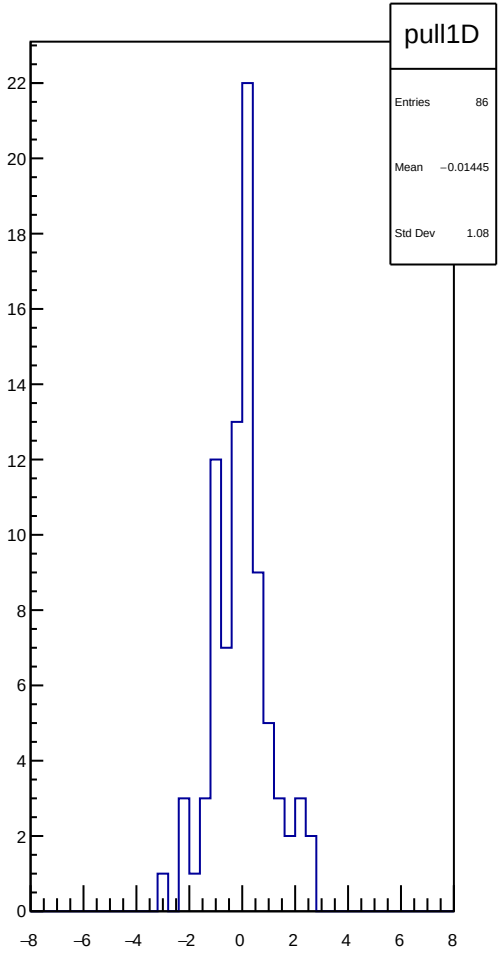

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 9055 / 85
p0 461.7 ± 0.3567
540
520
500
480
460
440
420
400
380

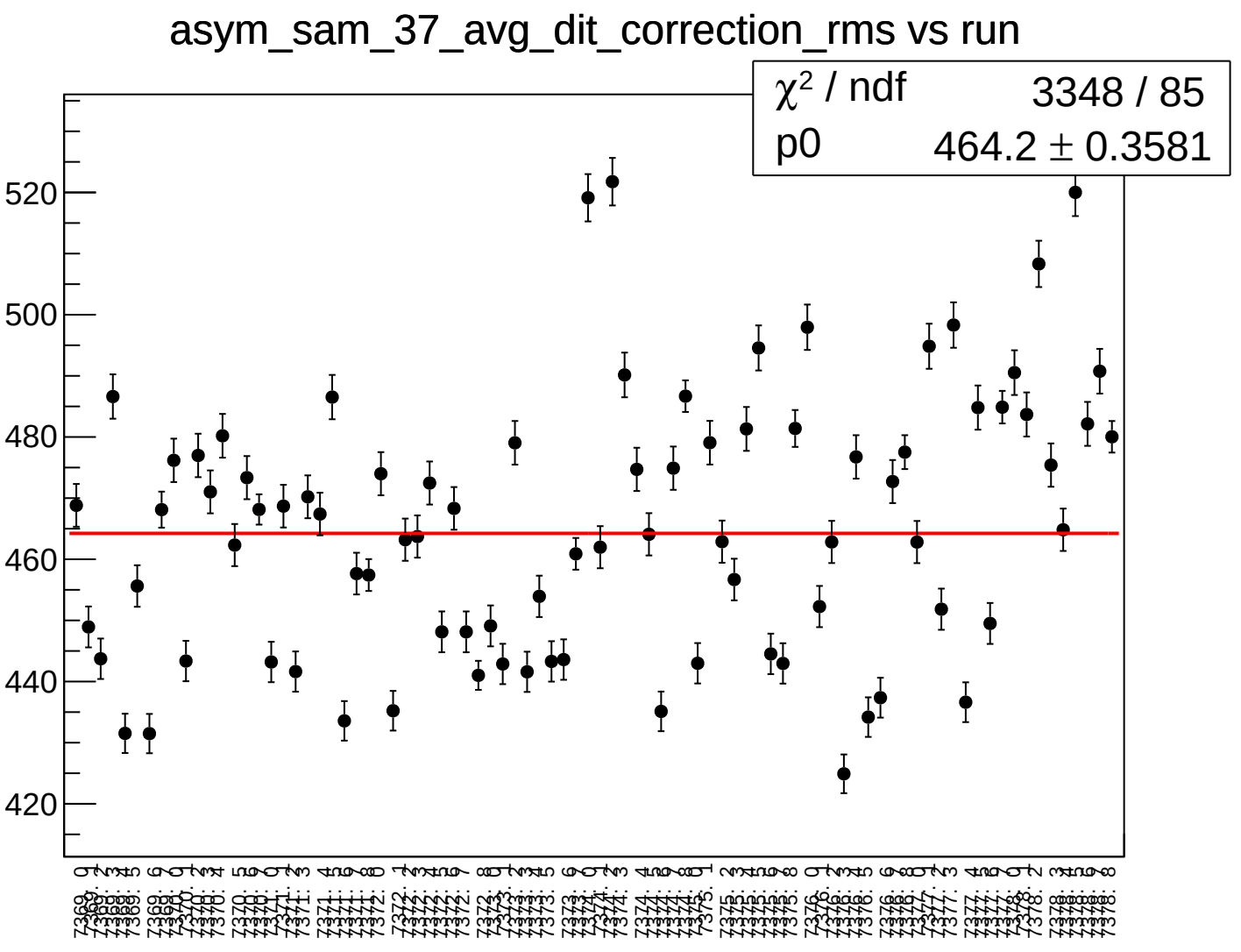

dit_asym_sam_37_avg_mean vs run
χ² / ndf 111.9 / 85
p0 99.05 ± 132.5
pull
Entries 86
Mean −54.36
Std Dev 0

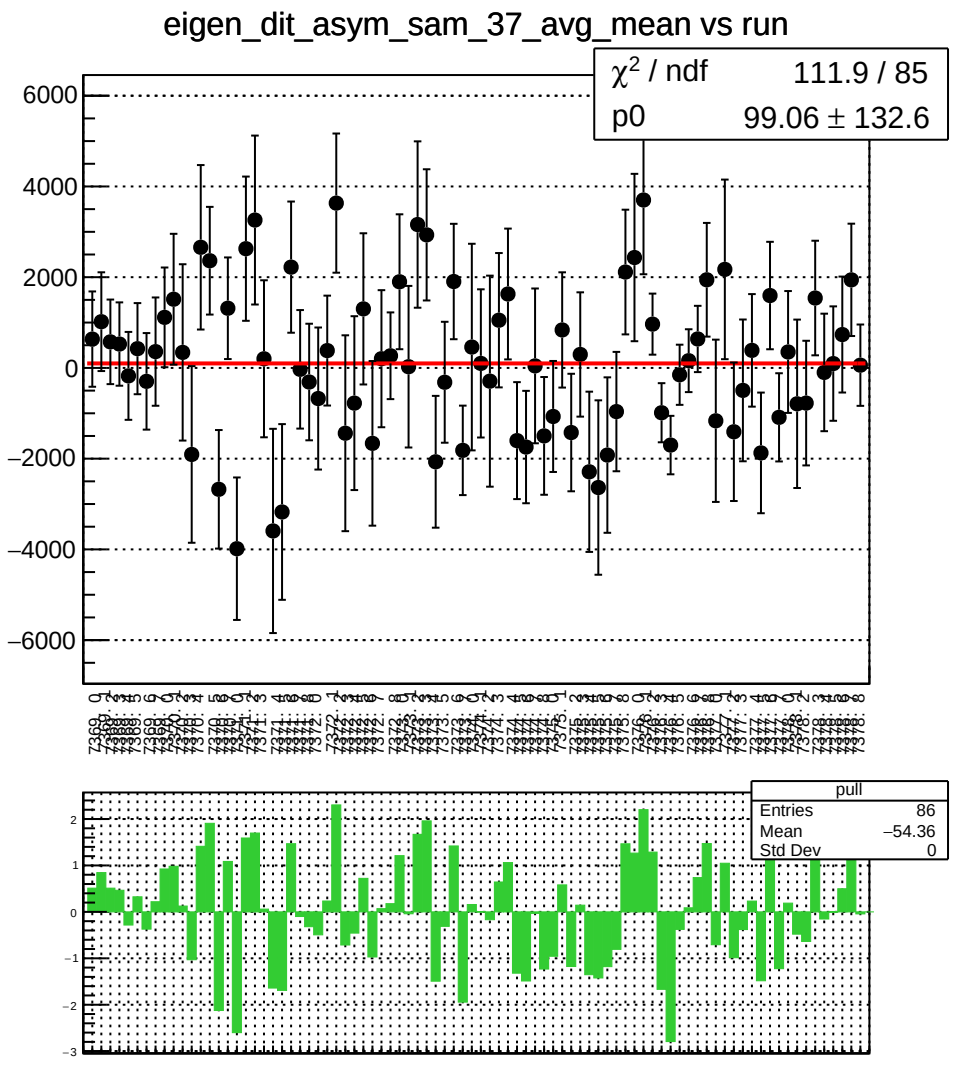

pull1D
Entries 86
Mean 0.02571
Std Dev 1.14

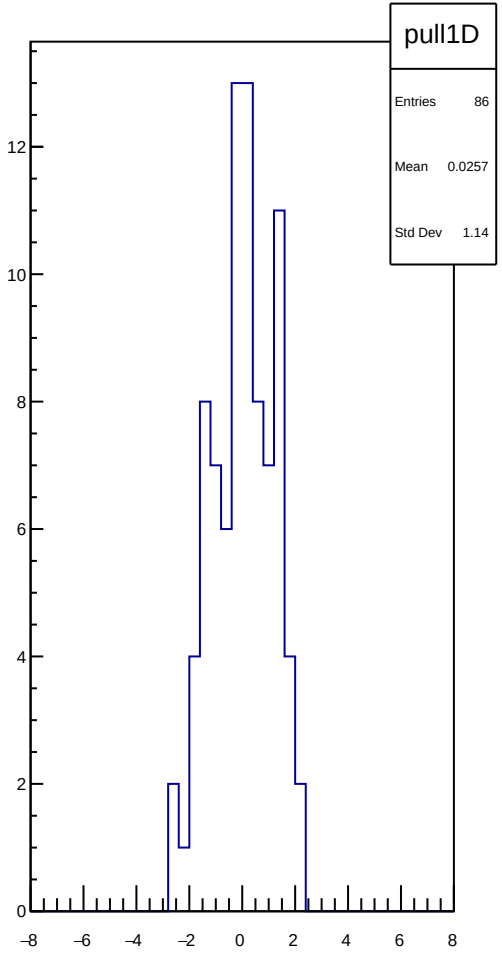

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.568e+05 / 85
p0 115.8 ± 0.09373
220
200
180
160
140
120
100
80
60

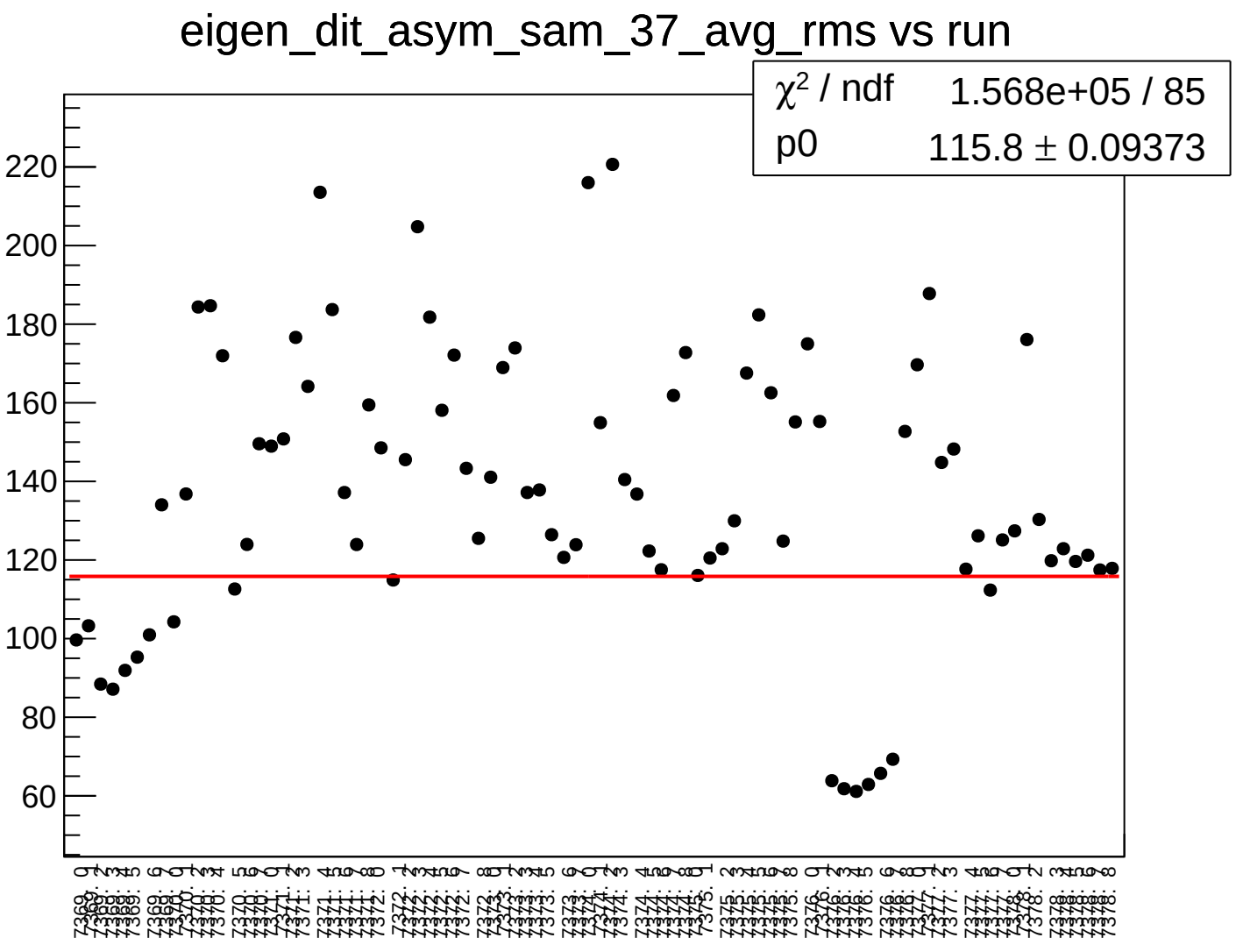

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 100.3 / 85
p0 333.2 ± 506.4
pull
Entries 86
Mean 45.05
Std Dev 0

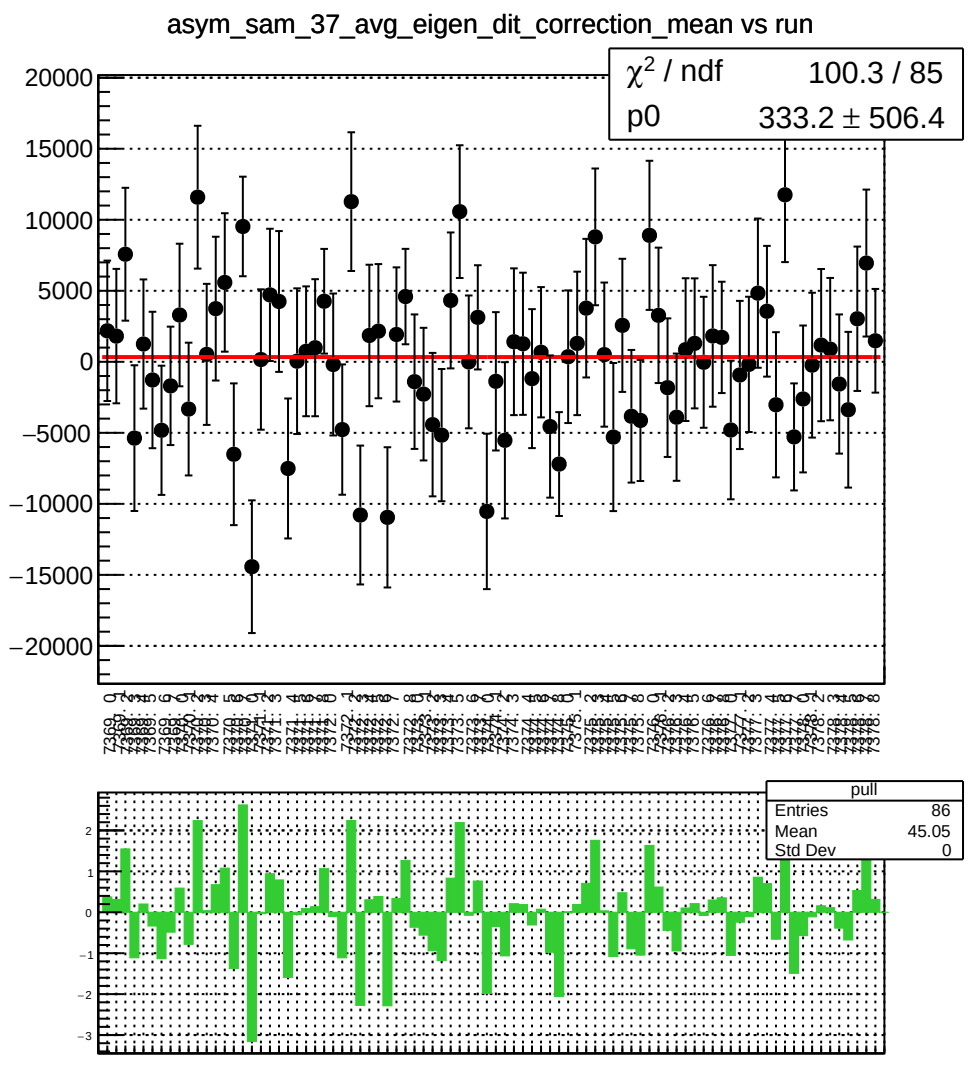

pull1D
Entries 86
Mean −0.01445
Std Dev 1.08

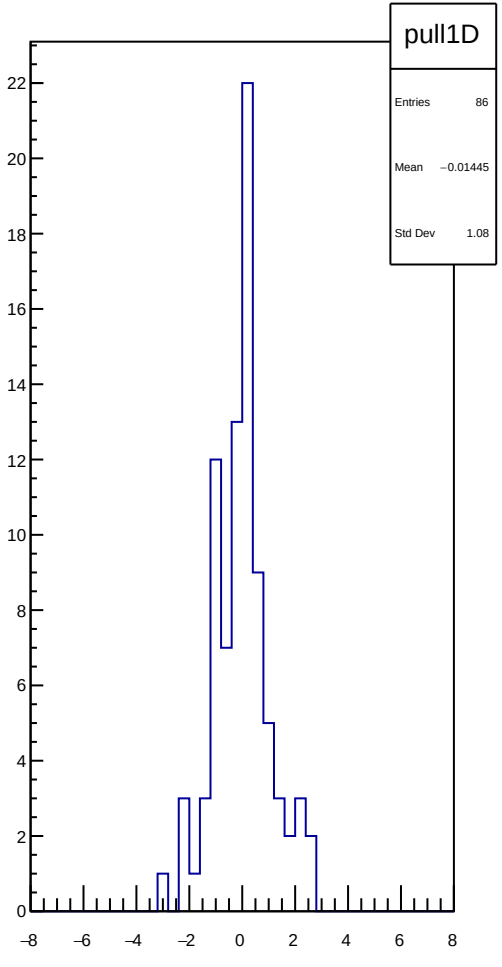

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3348 / 85
p0 464.2 ± 0.3581
520
500
480
460
440
420

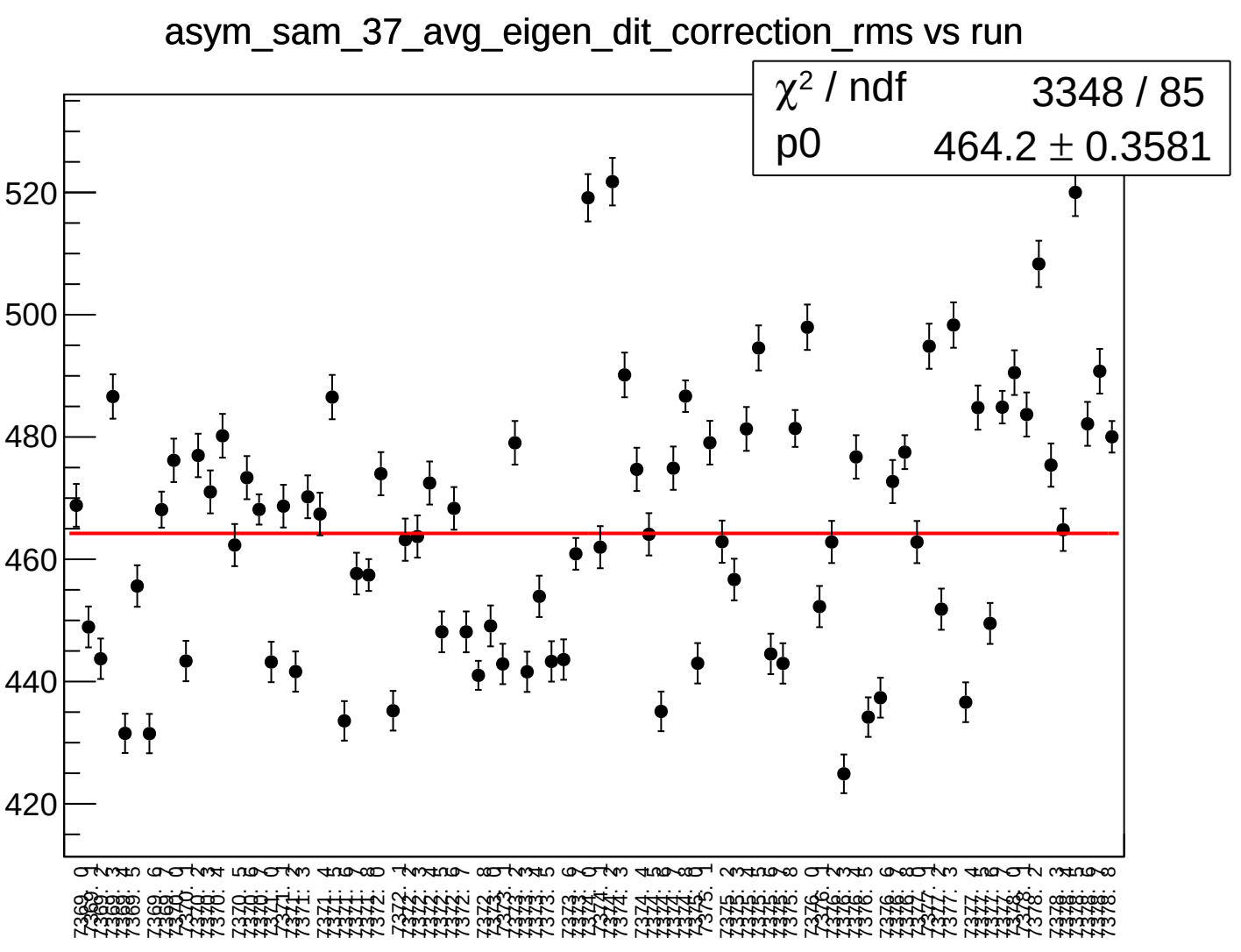

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 111.9 / 85
p0 99.06 ± 132.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −54.36
Std Dev 0
2
1
0
−1
−2
−3

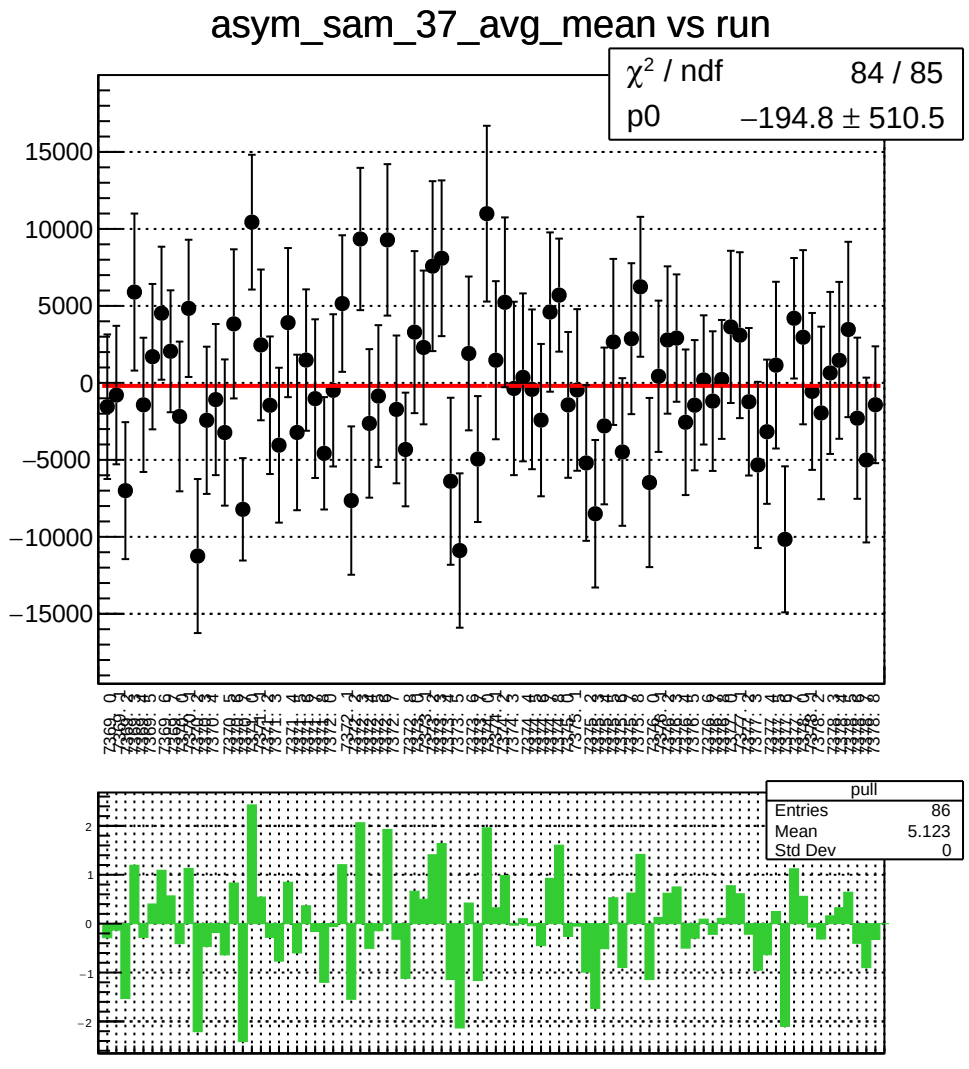

pull1D
Entries 86
Mean 0.0257
Std Dev 1.14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

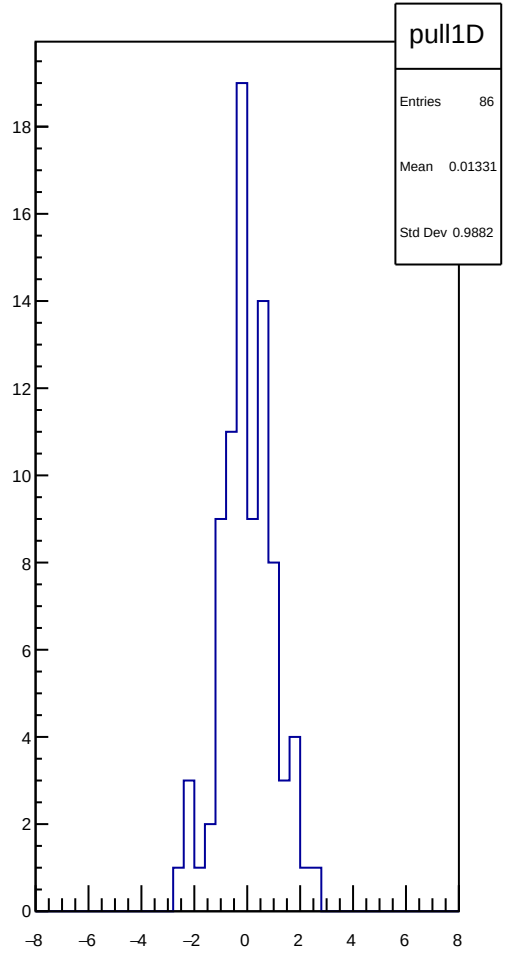

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.568e+05 / 85
p0 115.8 ± 0.09373
220
200
180
160
140
120
100
80
60

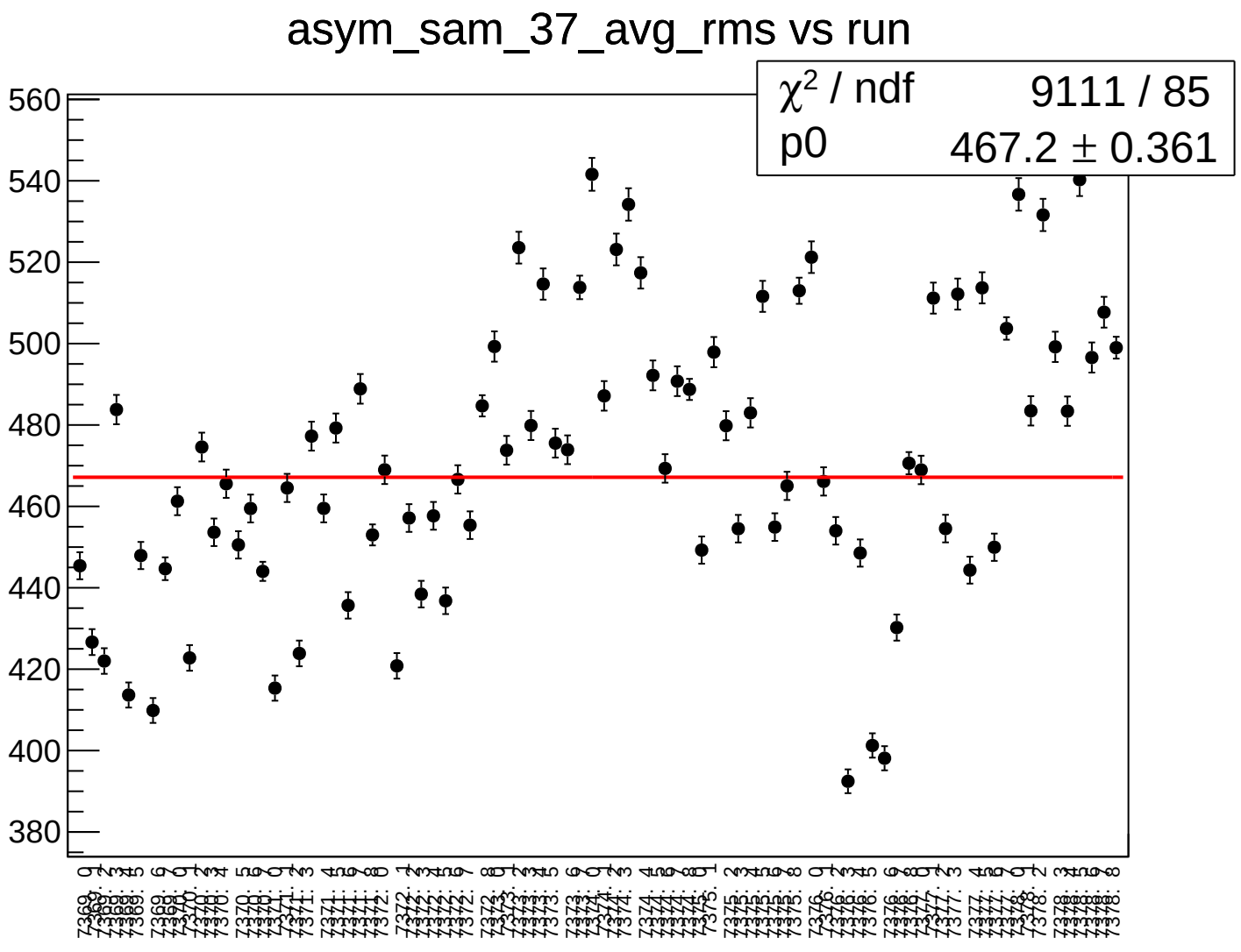

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.3 / 85
p0 333.2 ± 506.4
pull
Entries 86
Mean 45.05
Std Dev 0

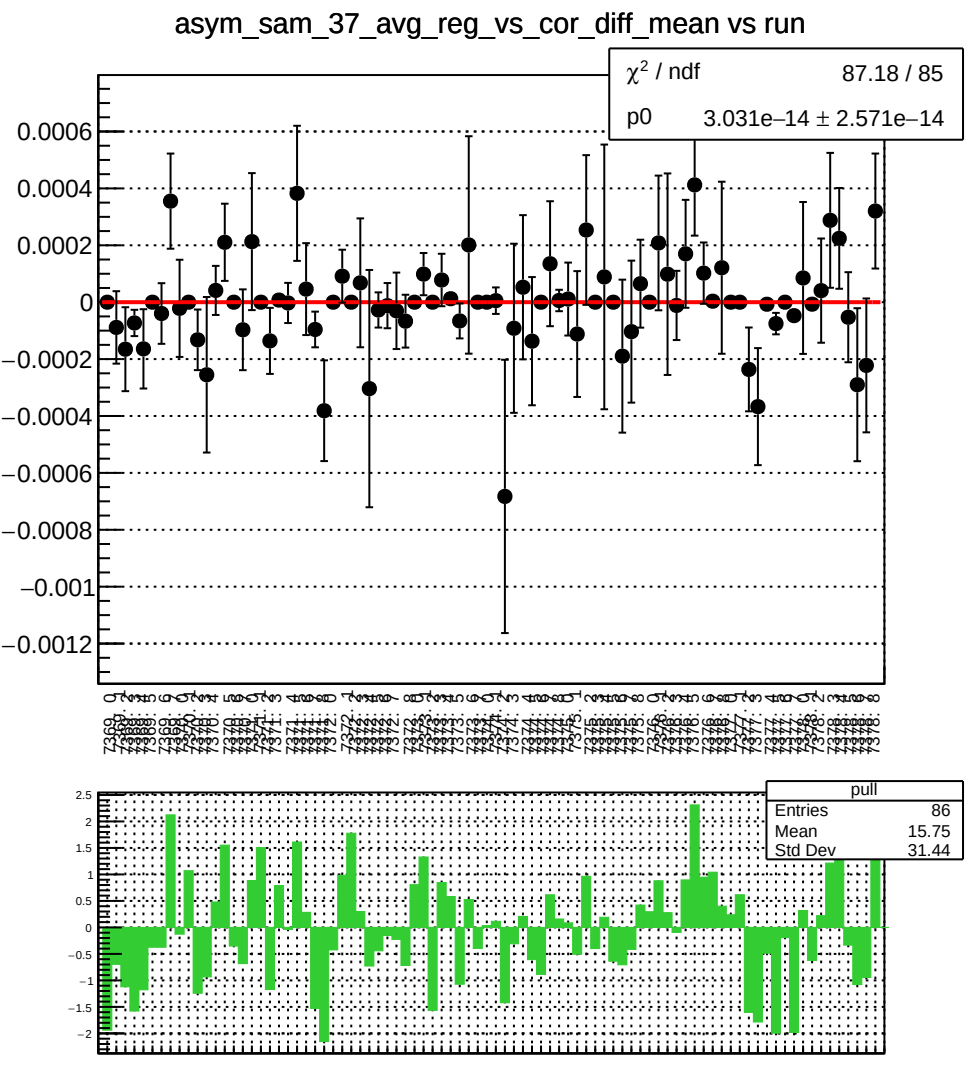

pull1D
Entries 86
Mean −0.01445
Std Dev 1.08

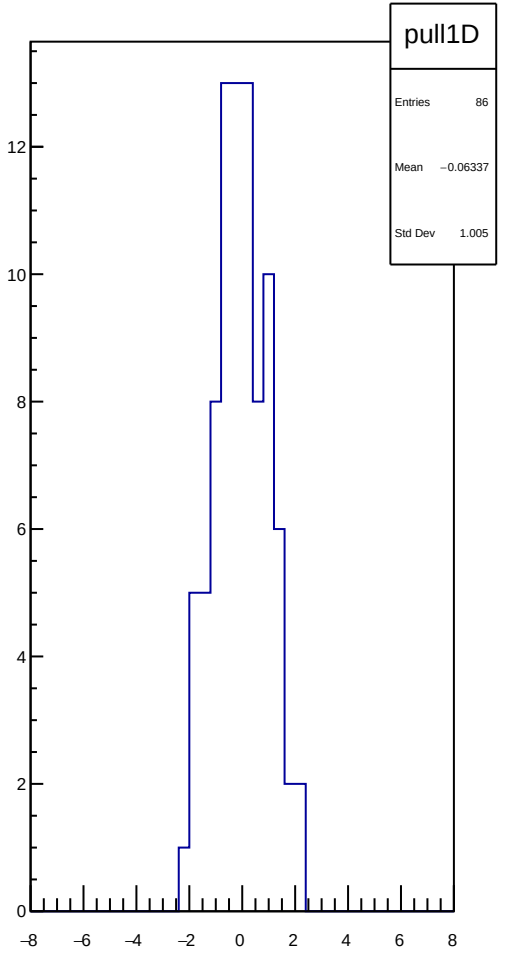

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3348 / 85
p0 464.2 ± 0.3581
520
500
480
460
440
420

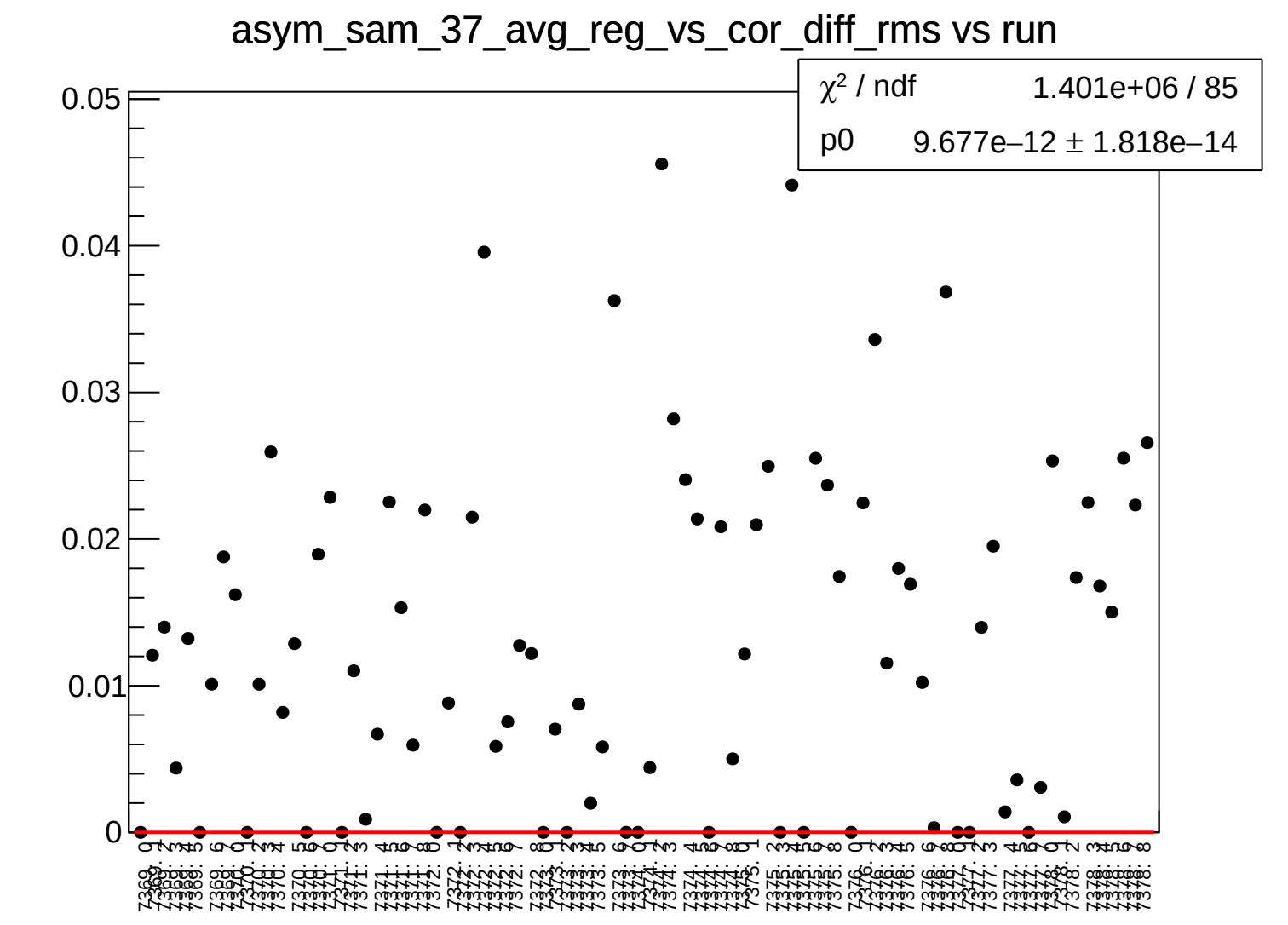

asym_sam_37_avg_mean vs run
χ² / ndf 84 / 85
p0 −194.8 ± 510.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 5.123
Std Dev 0
2
1
0
−1
−2

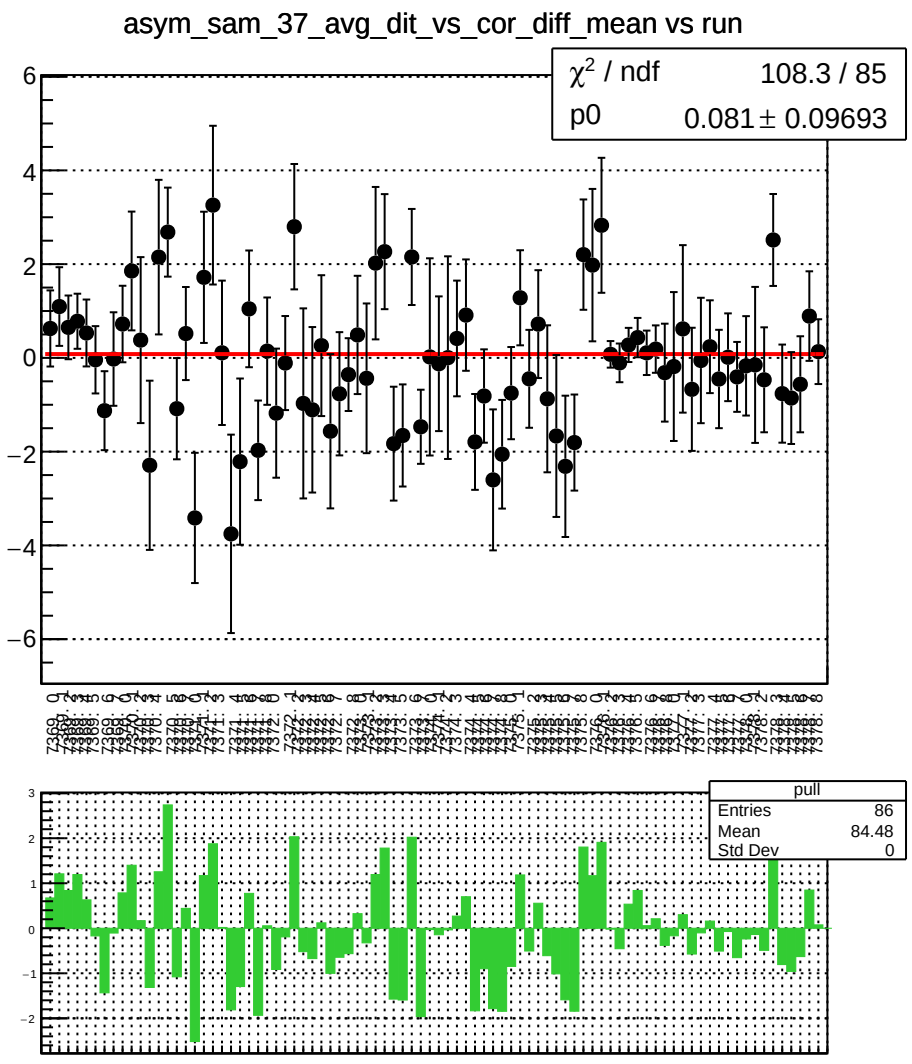

pull1D
Entries 86
Mean 0.01331
Std Dev 0.9882
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

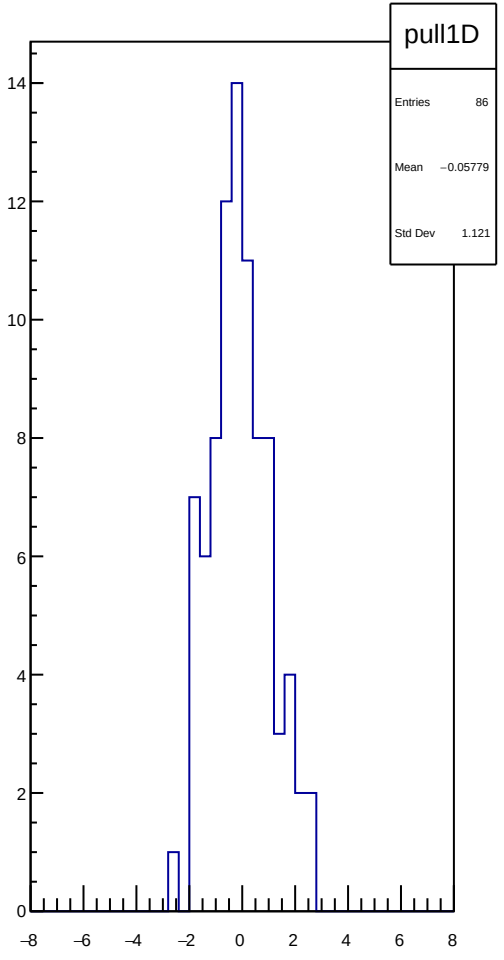

asym_sam_37_avg_rms vs run
χ² / ndf 9111 / 85
p0 467.2 ± 0.361
560
540
520
500
480
460
440
420
400
380

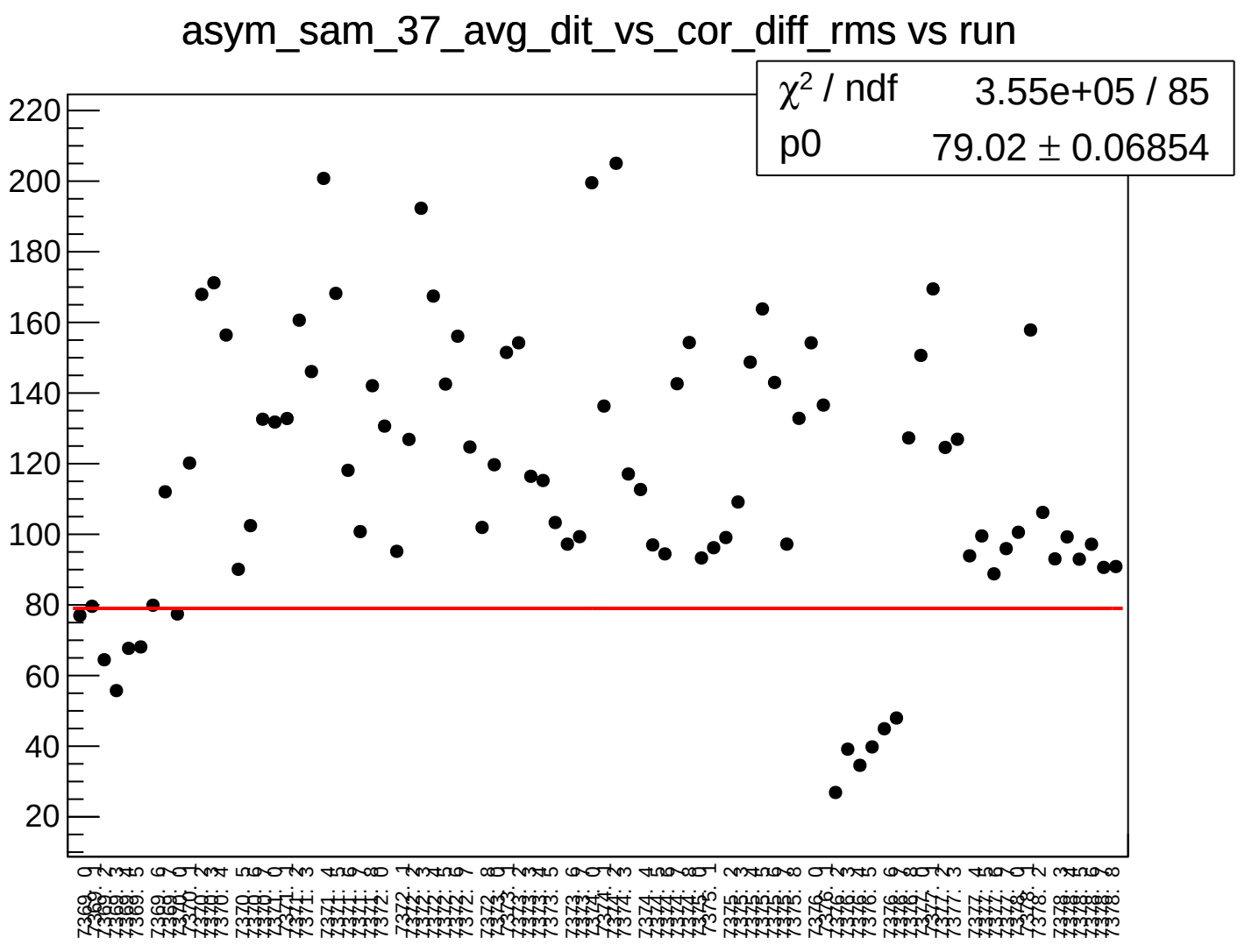

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.18 / 85
p0 3.031e−14 ± 2.571e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 86
Mean 15.75
Std Dev 31.44
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

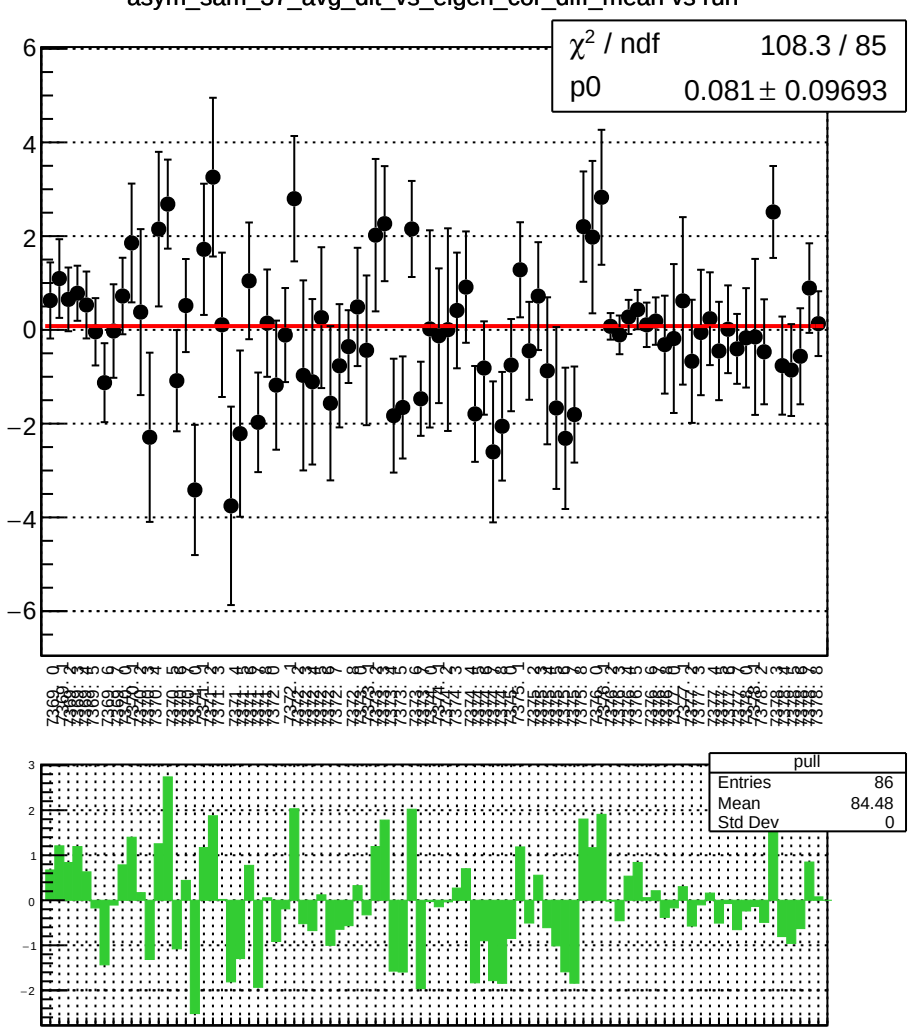

pull1D
Entries 86
Mean −0.06337
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

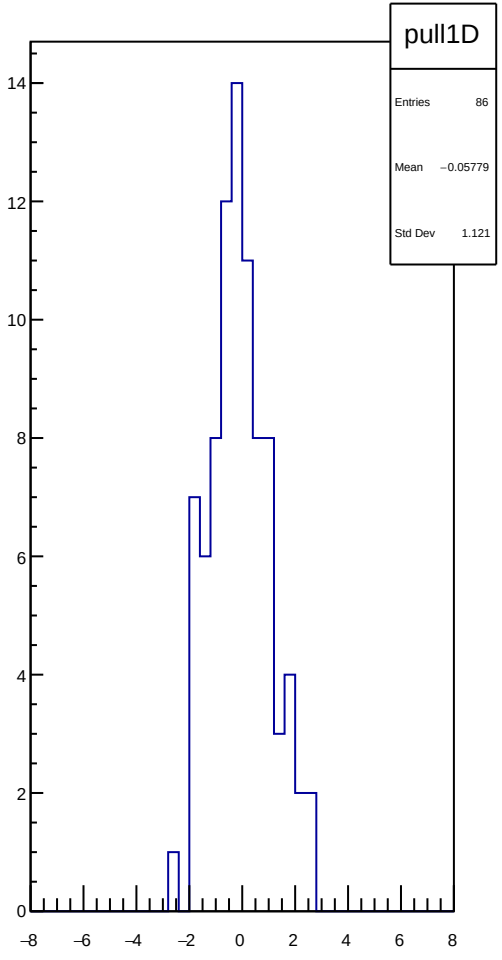

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.401e+06 / 85
p0 9.677e−12 ± 1.818e−14
0.05
0.04
0.03
0.02
0.01
0

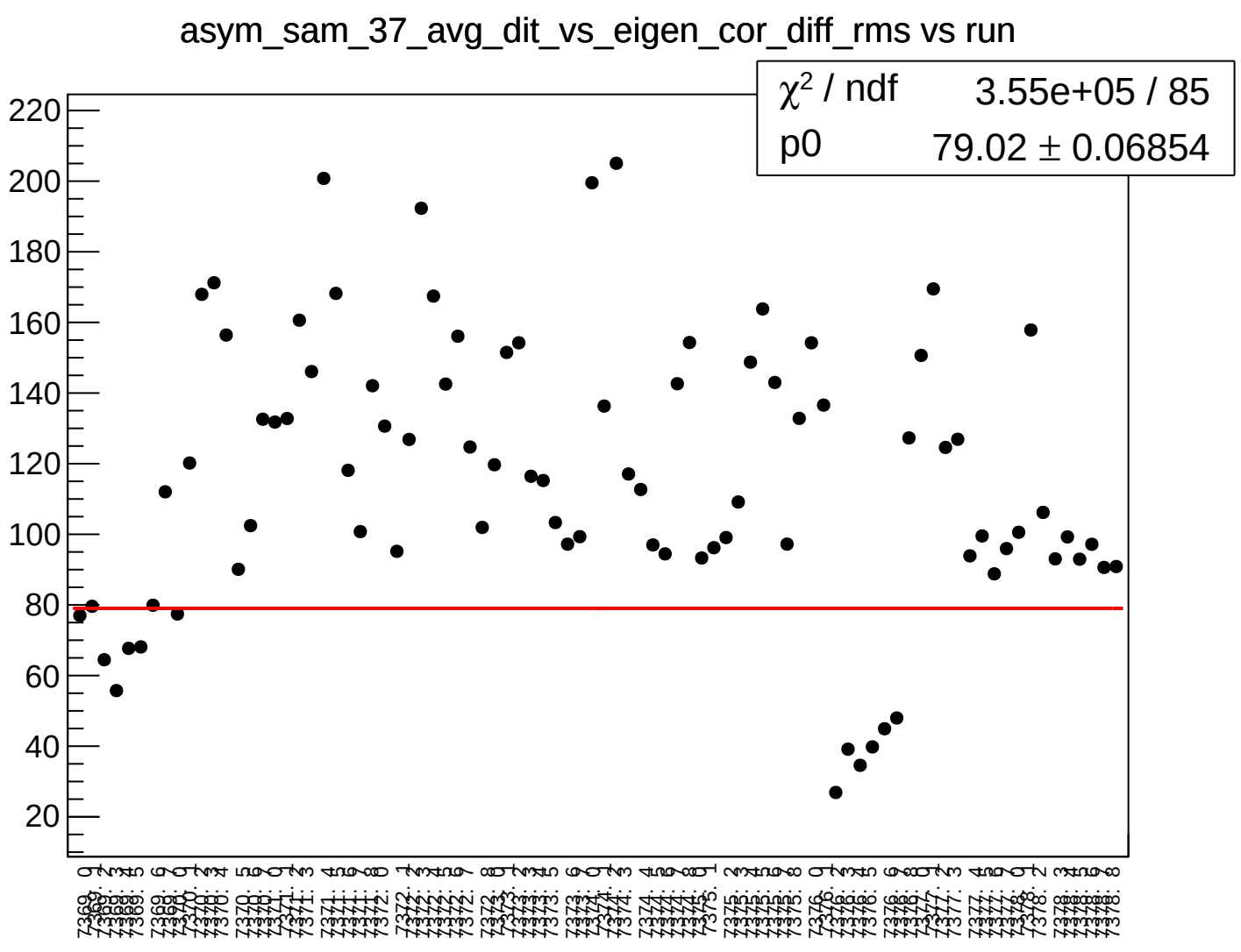

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 85
p0 0.081 ± 0.09693
pull
Entries 86
Mean 84.48
Std Dev 0

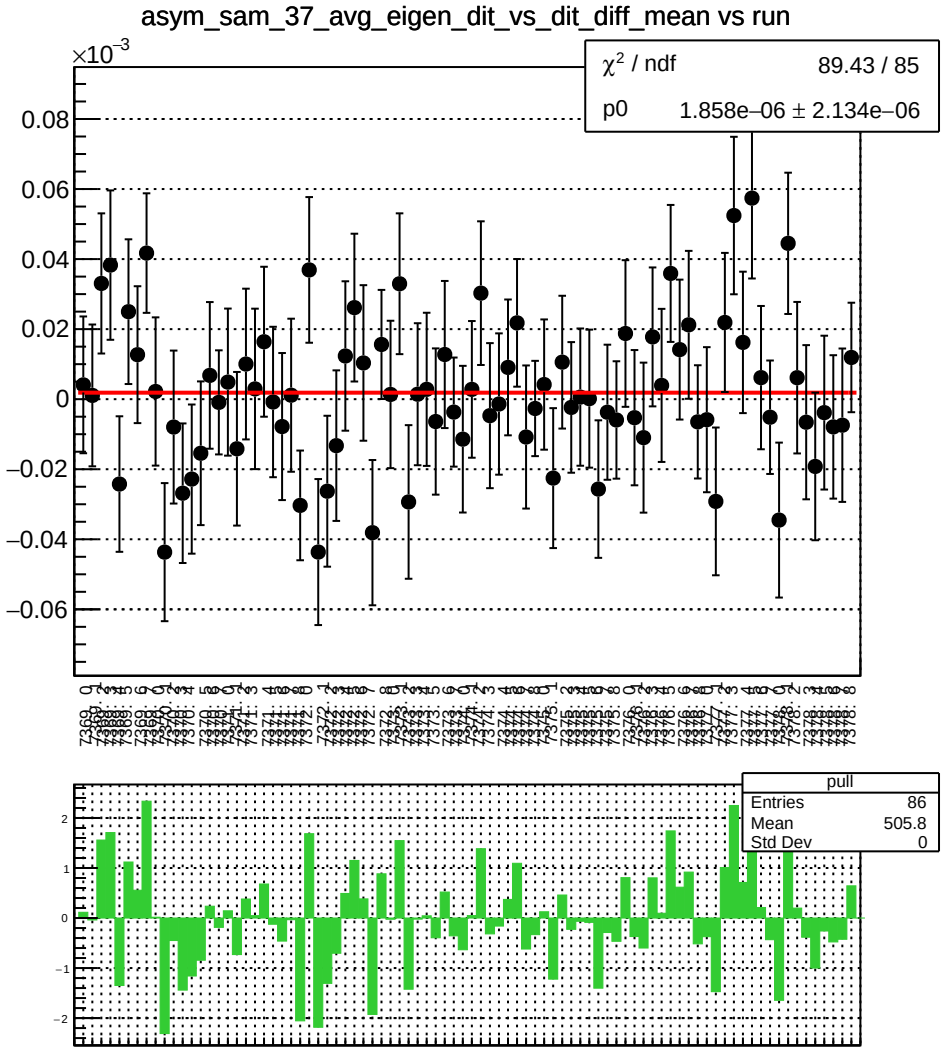

pull1D
Entries 86
Mean −0.05779
Std Dev 1.121

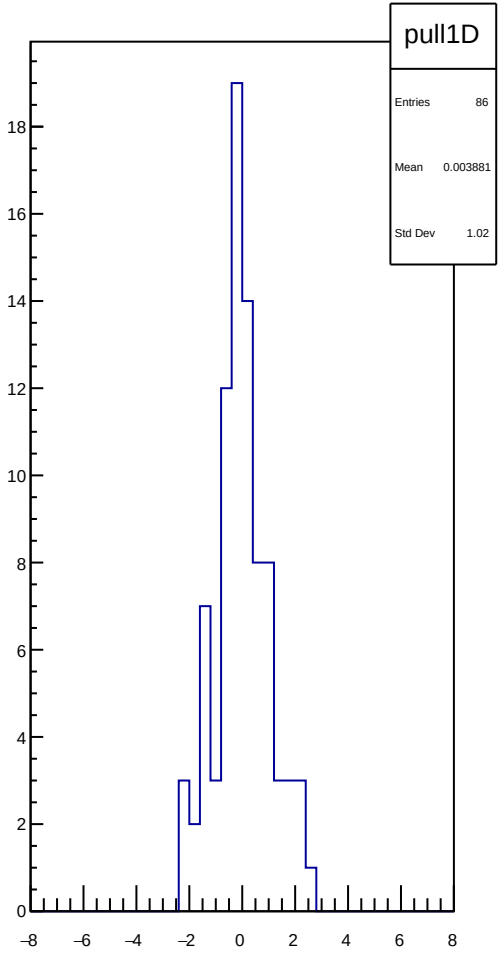

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.55e+05 / 85
p0 79.02 ± 0.06854
220
200
180
160
140
120
100
80
60
40
20

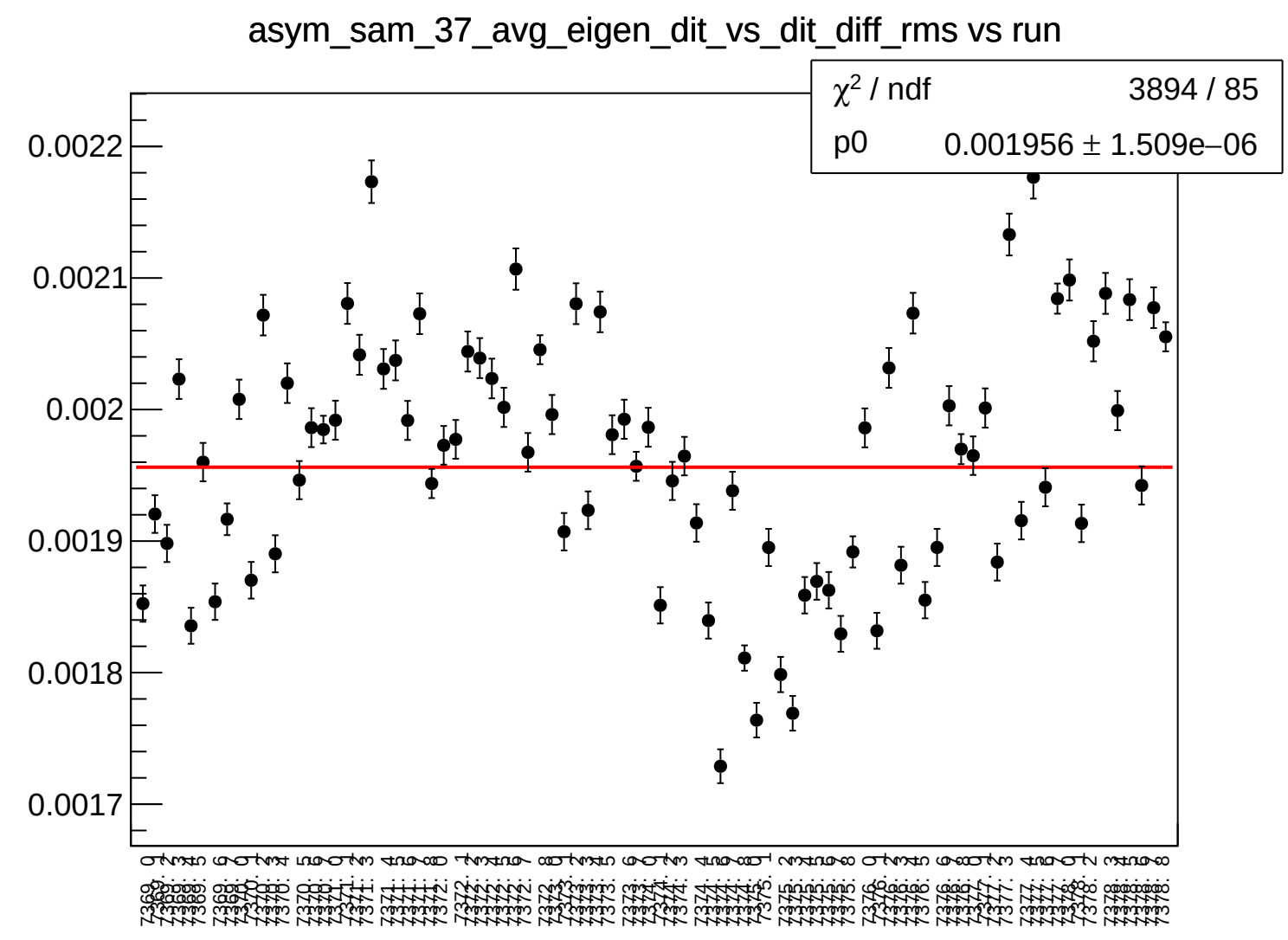

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.3 / 85
p0 0.081 ± 0.09693
pull
Entries 86
Mean 84.48
Std Dev 0

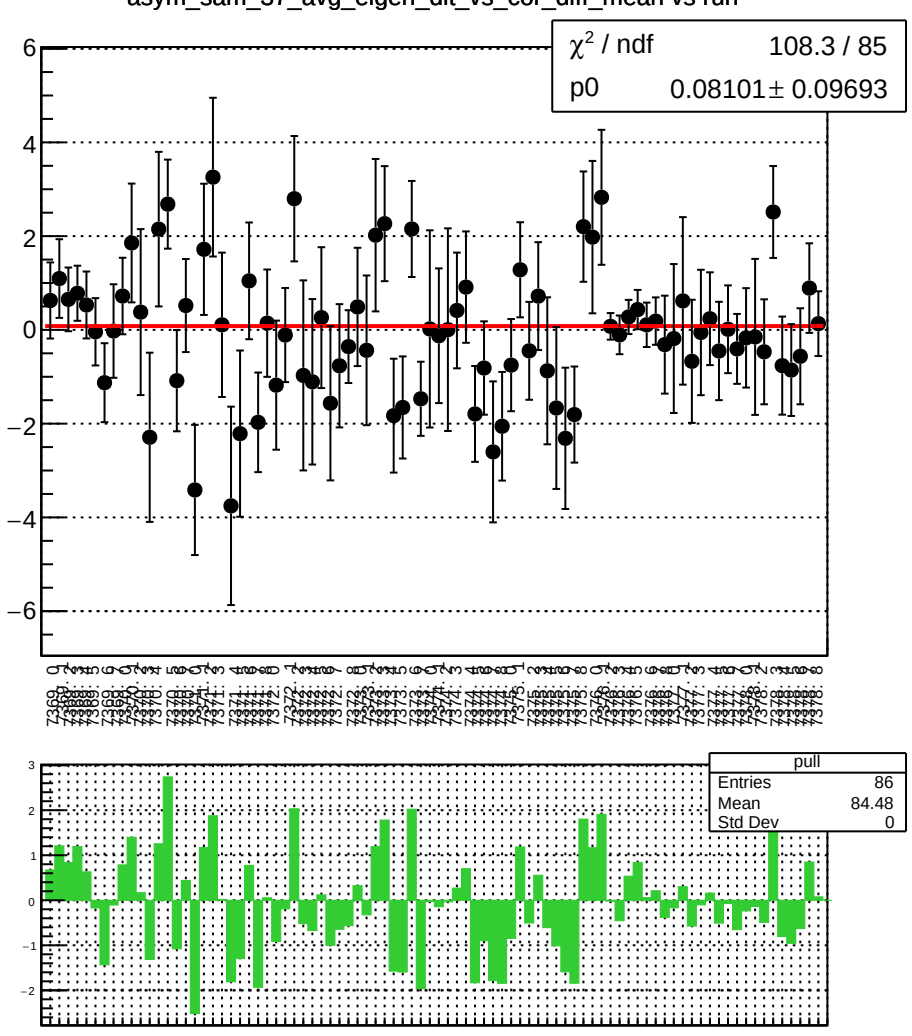

pull1D
Entries 86
Mean −0.05779
Std Dev 1.121

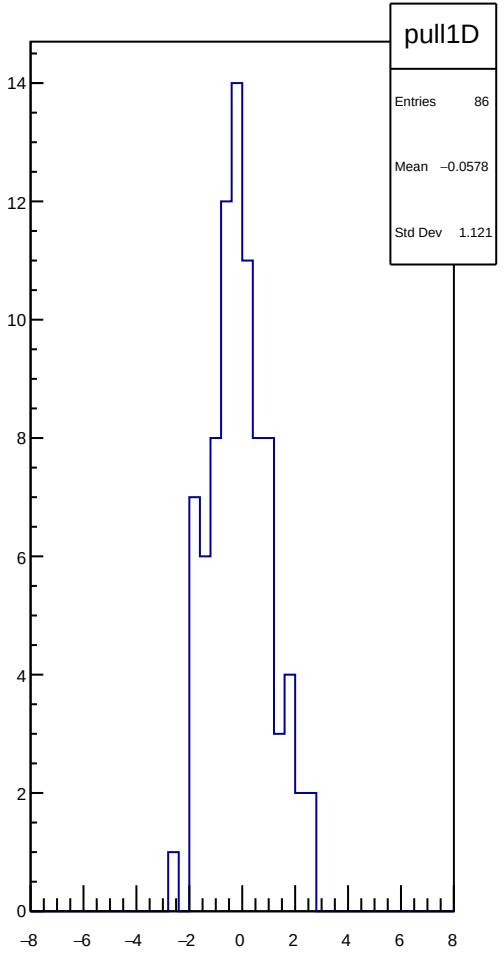

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.55e+05 / 85
p0 79.02 ± 0.06854
220
200
180
160
140
120
100
80
60
40
20

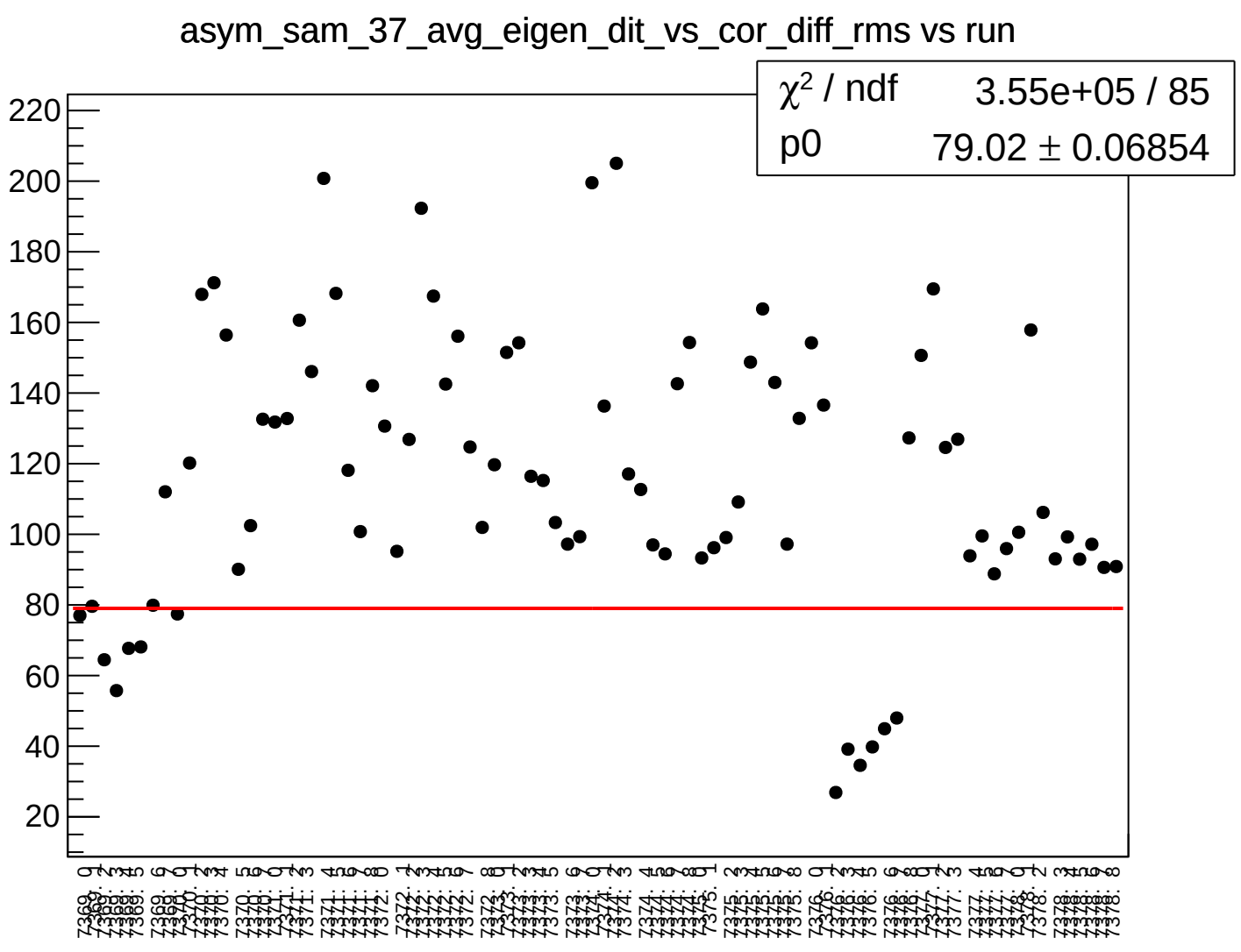

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.43 / 85
p0 1.858e−06 ± 2.134e−06
pull
Entries 86
Mean 505.8
Std Dev 0

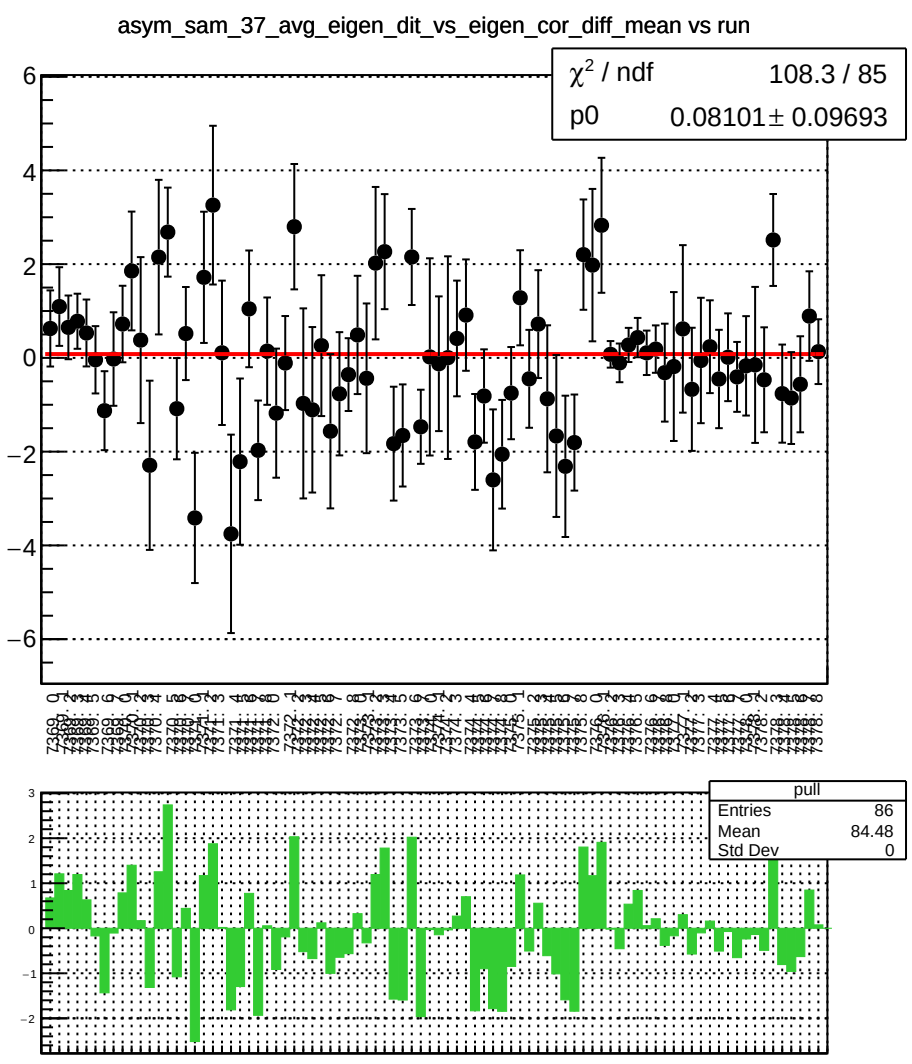

pull1D
Entries 86
Mean 0.003881
Std Dev 1.02

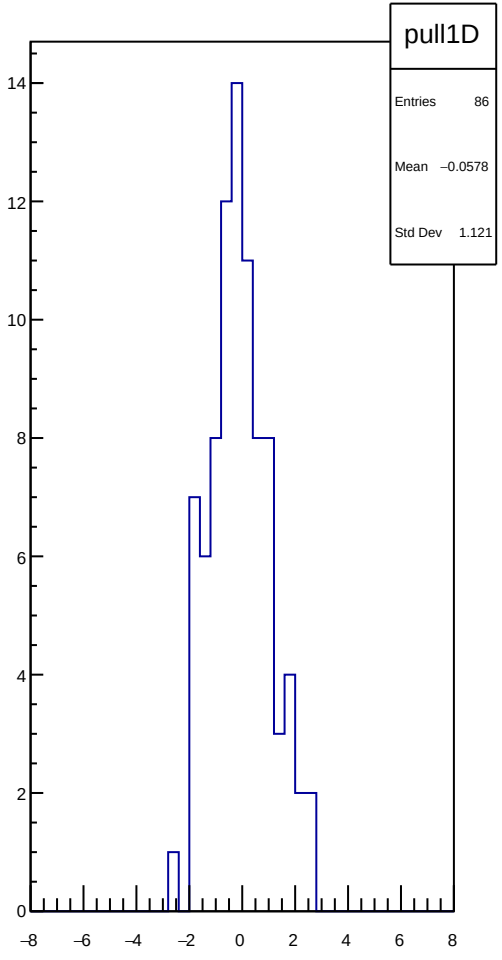

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3894 / 85
p0 0.001956 ± 1.509e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

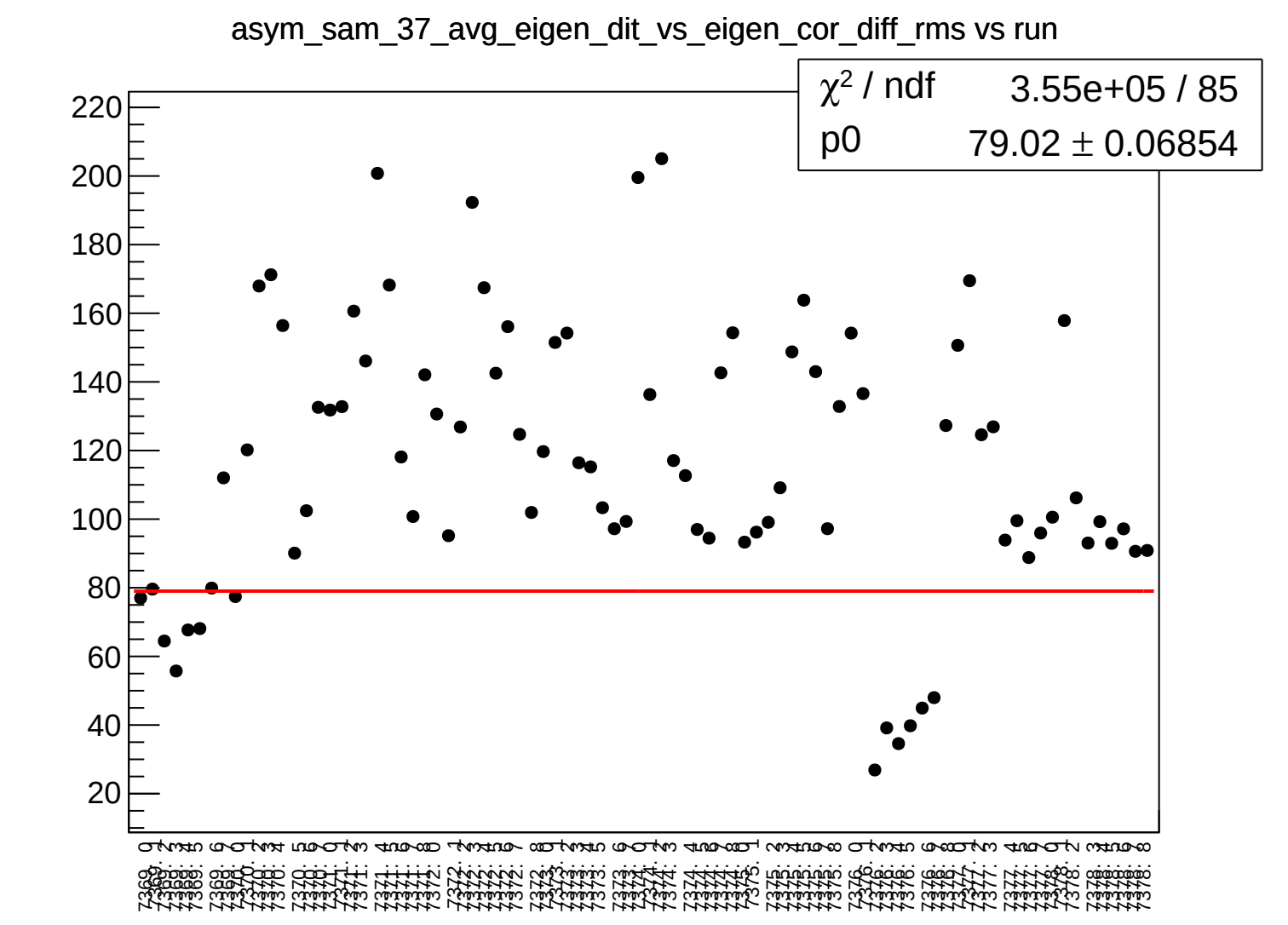

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 85
p0 0.08101 ± 0.09693
pull
Entries 86
Mean 84.48
Std Dev 0

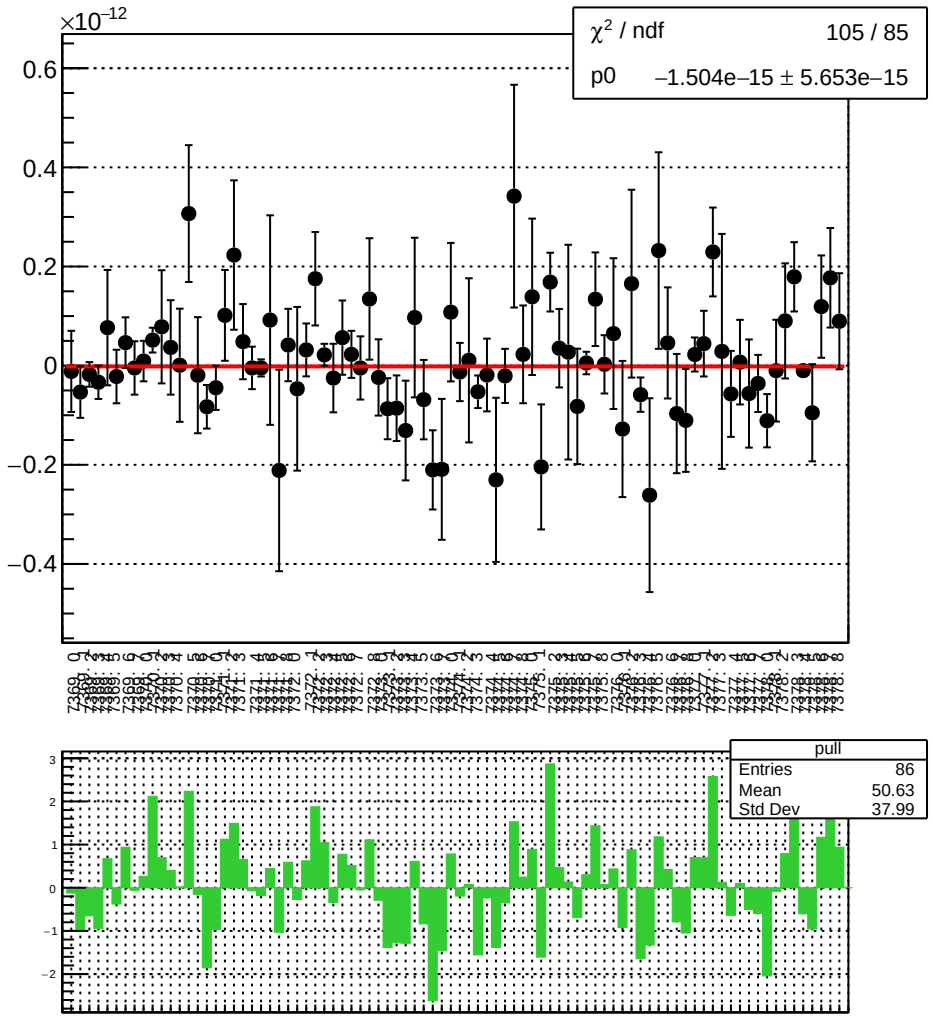

pull1D
Entries 86
Mean −0.0578
Std Dev 1.121

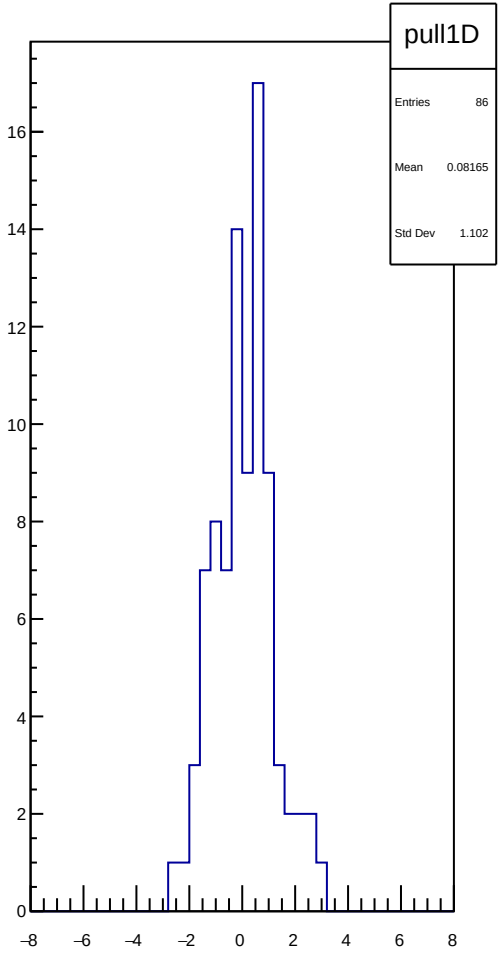

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.55e+05 / 85
p0 79.02 ± 0.06854
220
200
180
160
140
120
100
80
60
40
20

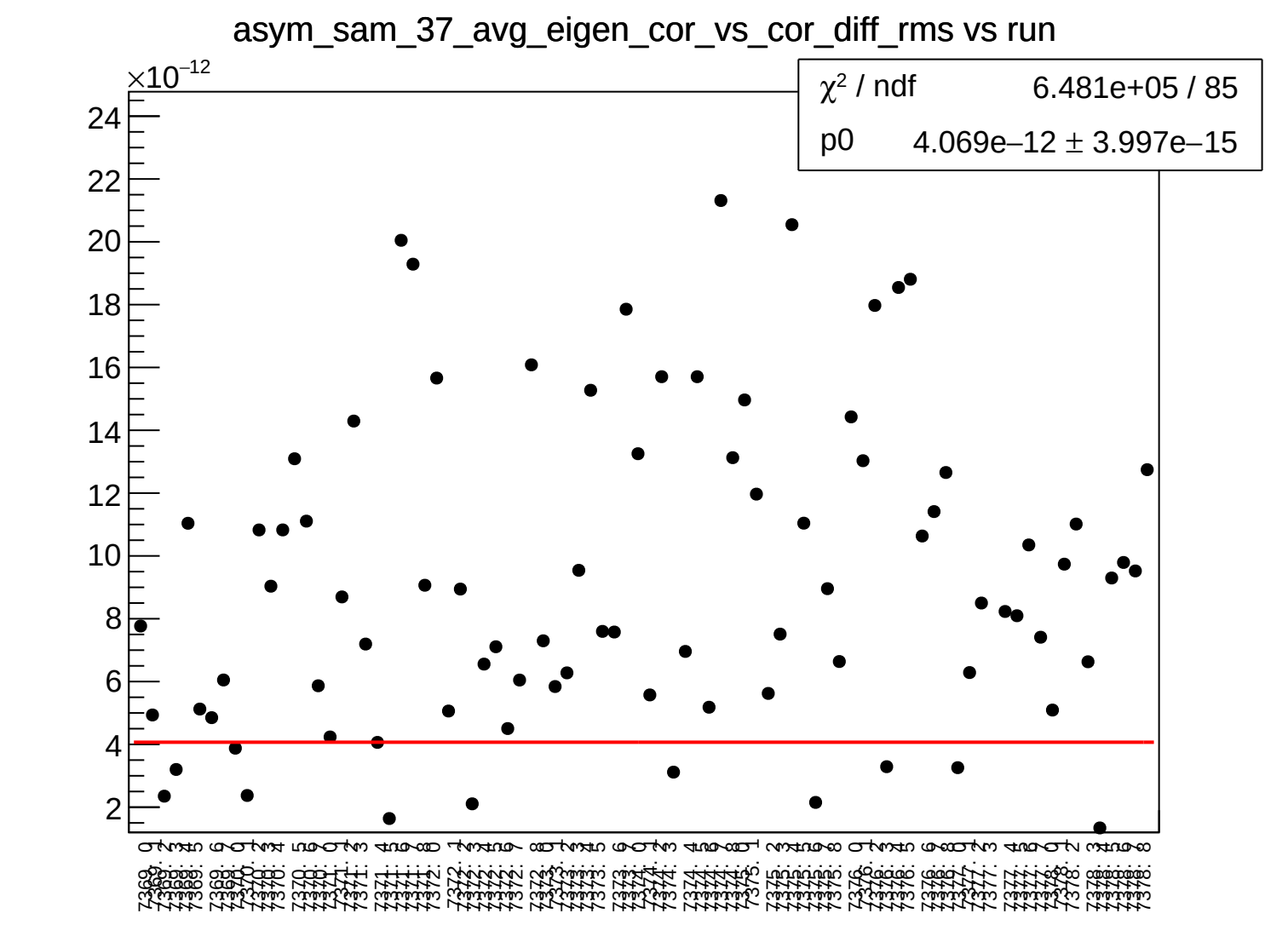

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.3 / 85
p0 0.08101 ± 0.09693
pull
Entries 86
Mean 84.48
Std Dev 0

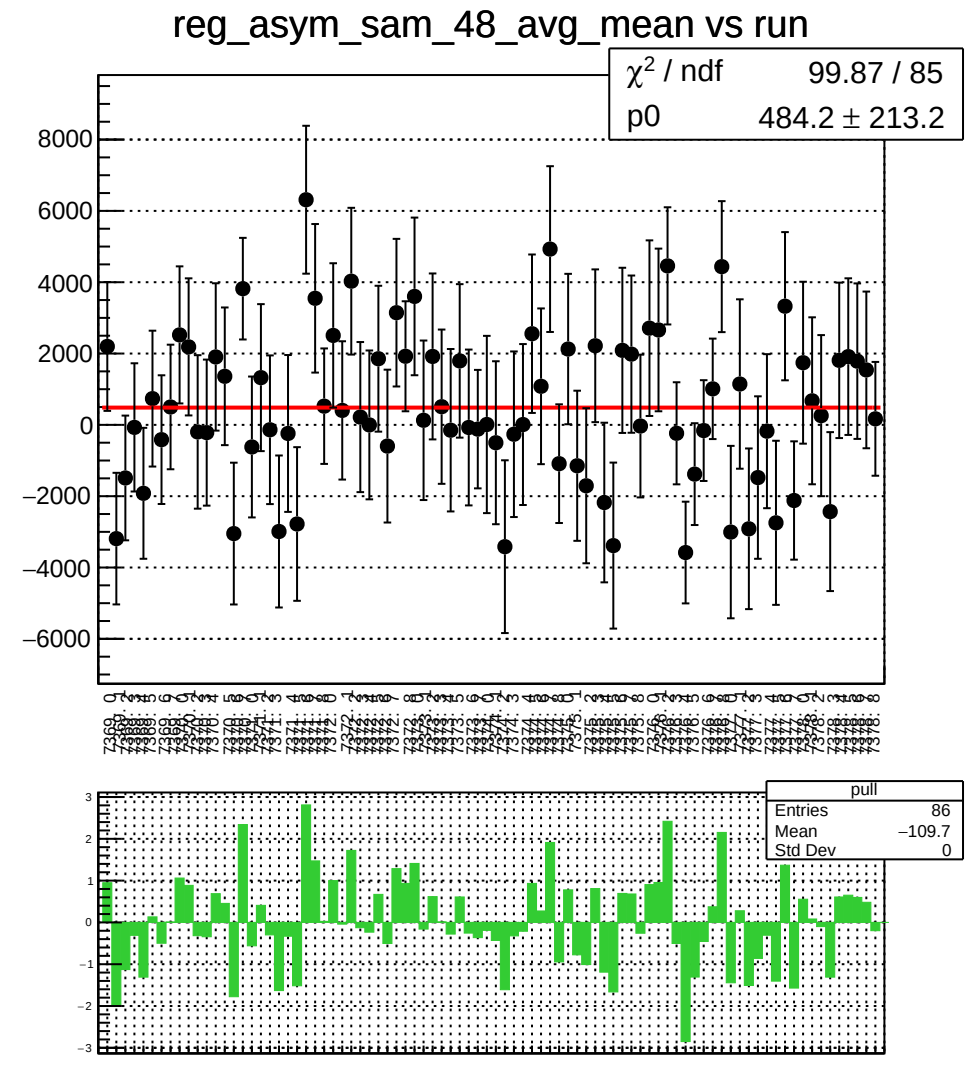

pull1D
Entries 86
Mean −0.0578
Std Dev 1.121

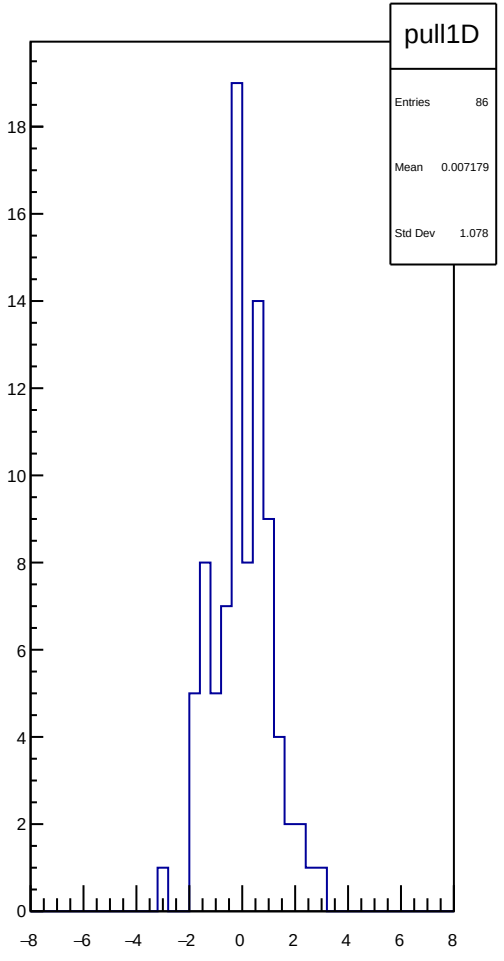

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.55e+05 / 85
p0 79.02 ± 0.06854
220
200
180
160
140
120
100
80
60
40
20

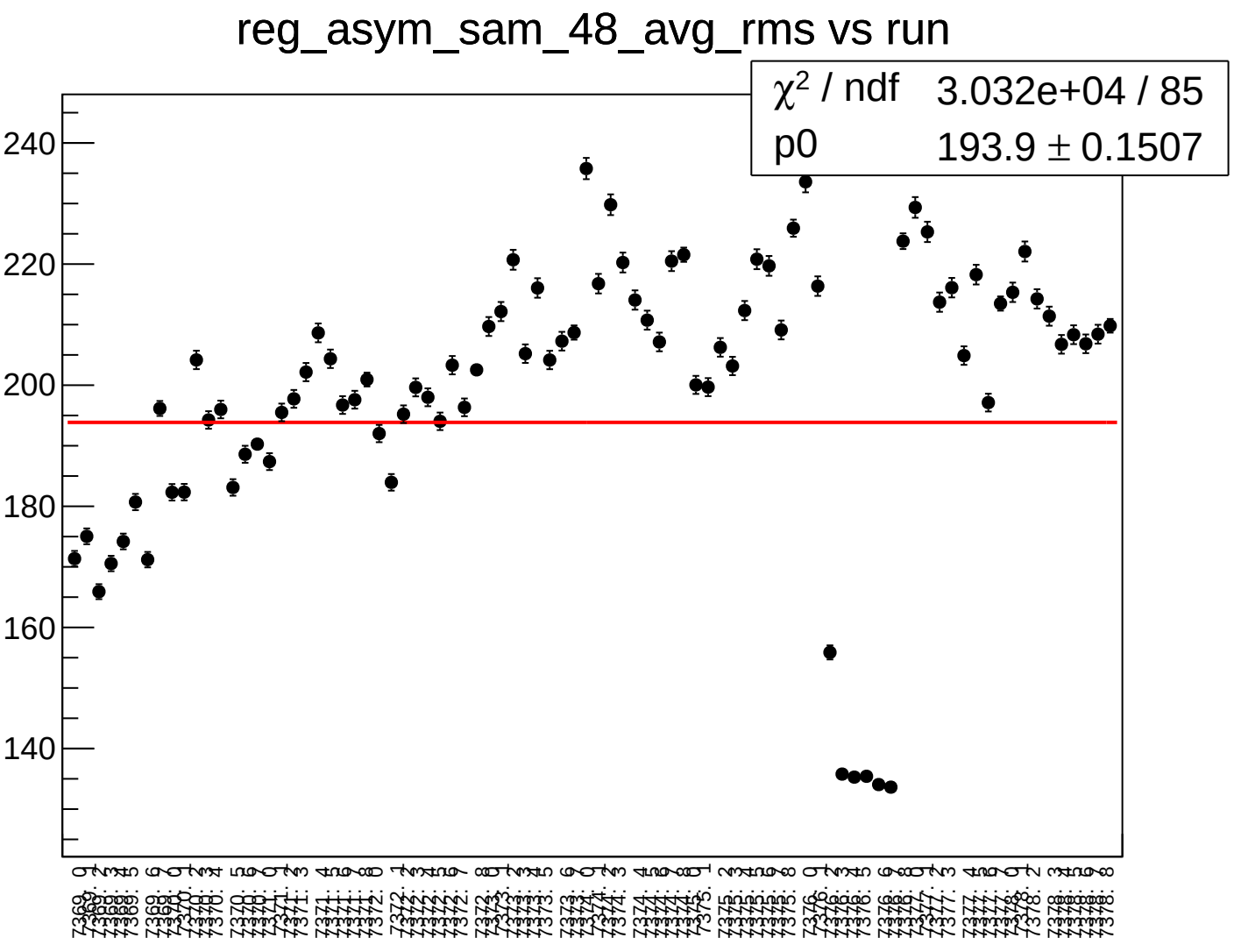

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105 / 85
p0 −1.504e−15 ± 5.653e−15
pull
Entries 86
Mean 50.63
Std Dev 37.99

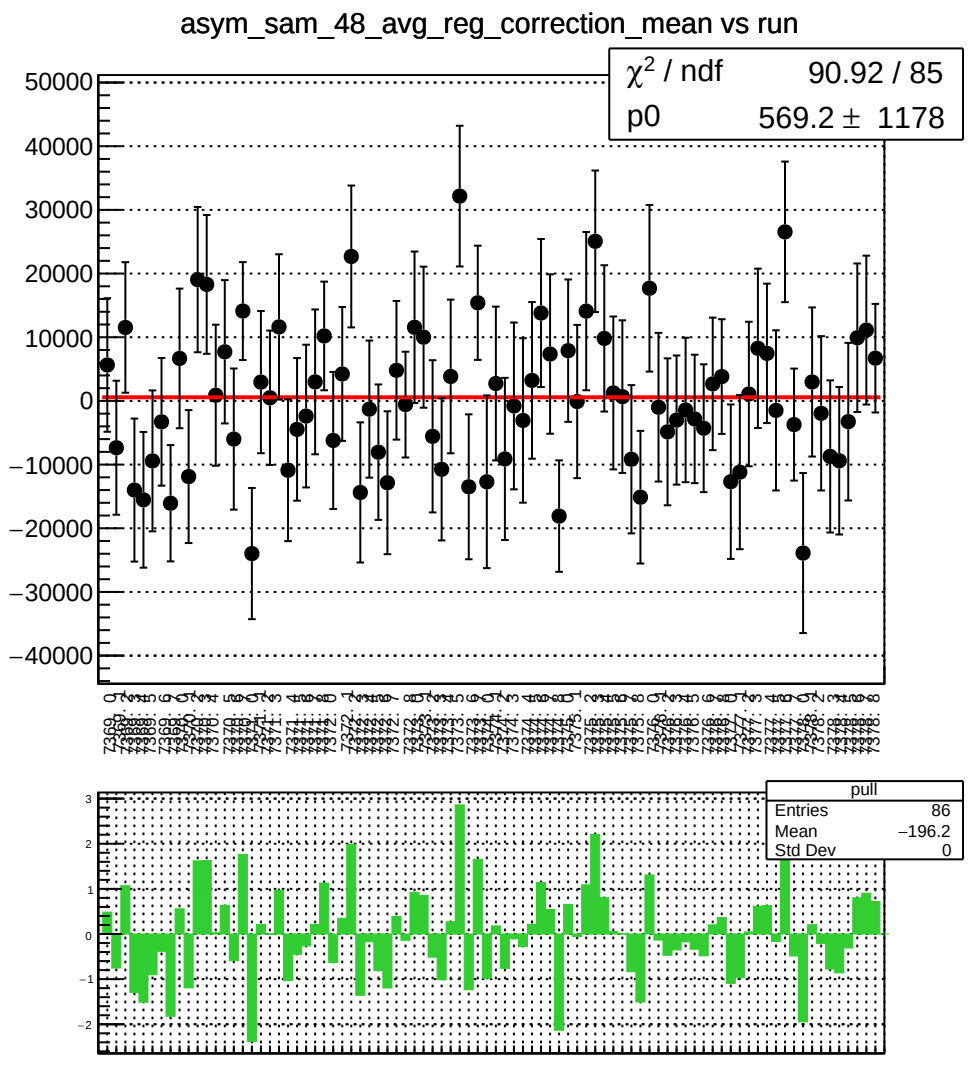

pull1D
Entries 86
Mean 0.08165
Std Dev 1.102

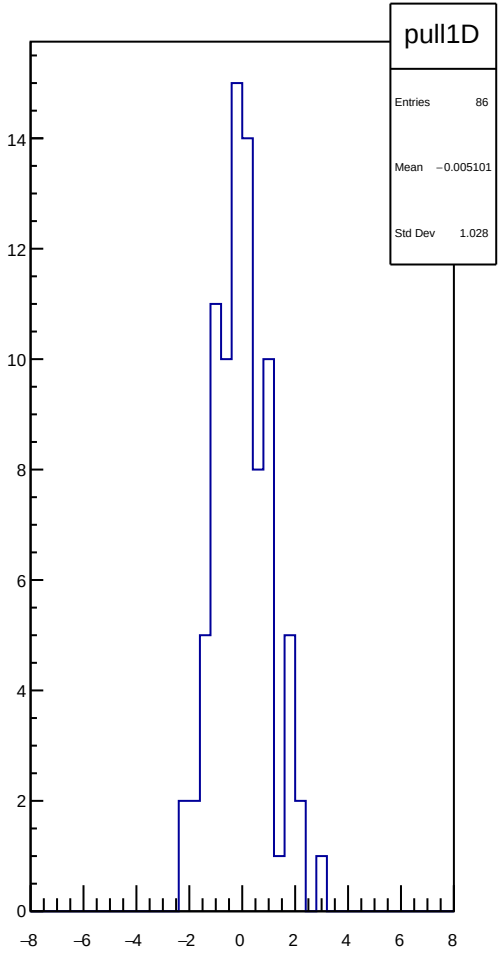

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.481e+05 / 85
p0 4.069e−12 ± 3.997e−15
24
22
20
18
16
14
12
10
8
6
4
2

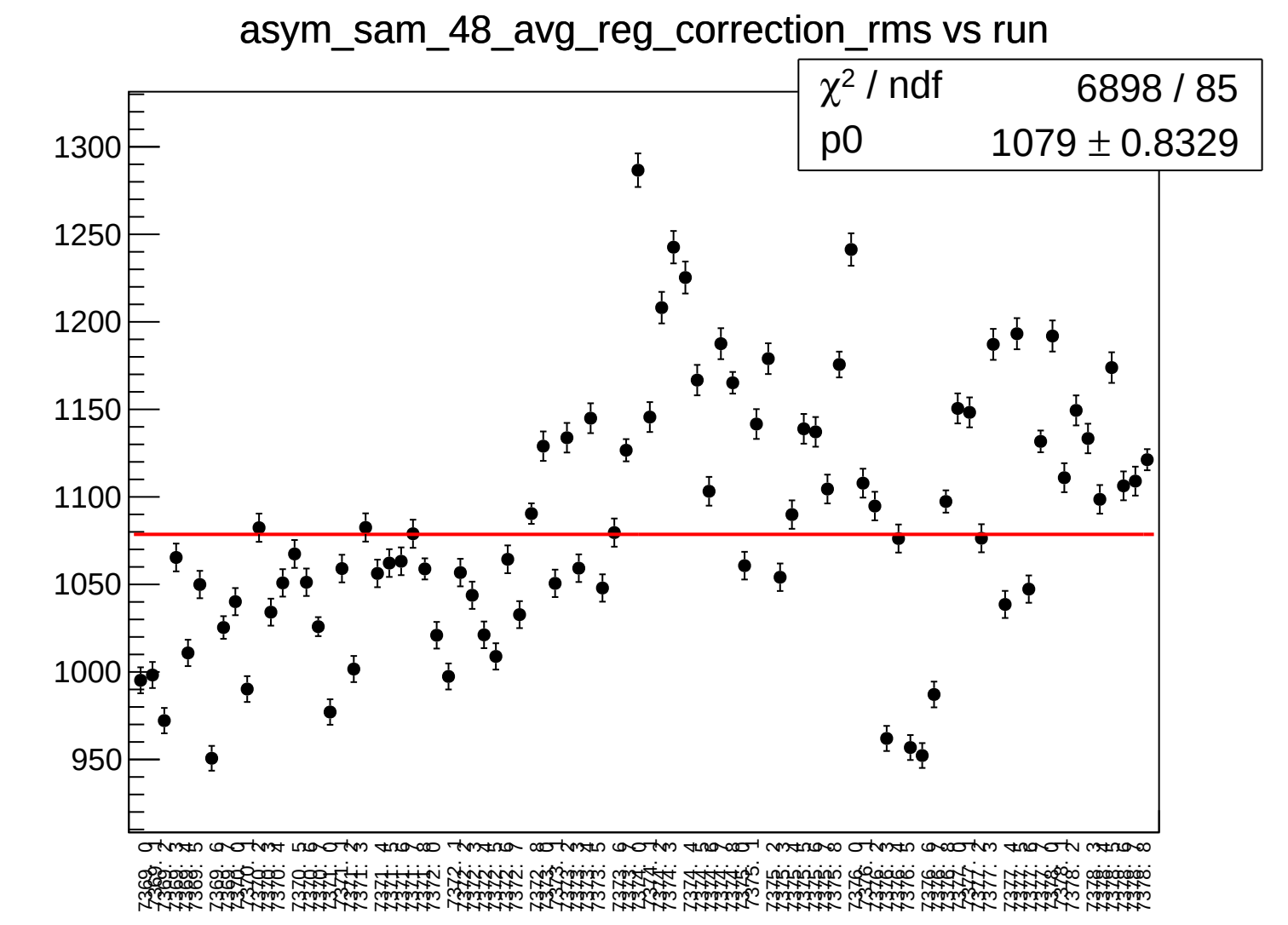

reg_asym_sam_48_avg_mean vs run
χ² / ndf 99.87 / 85
p0 484.2 ± 213.2
pull
Entries 86
Mean −109.7
Std Dev 0

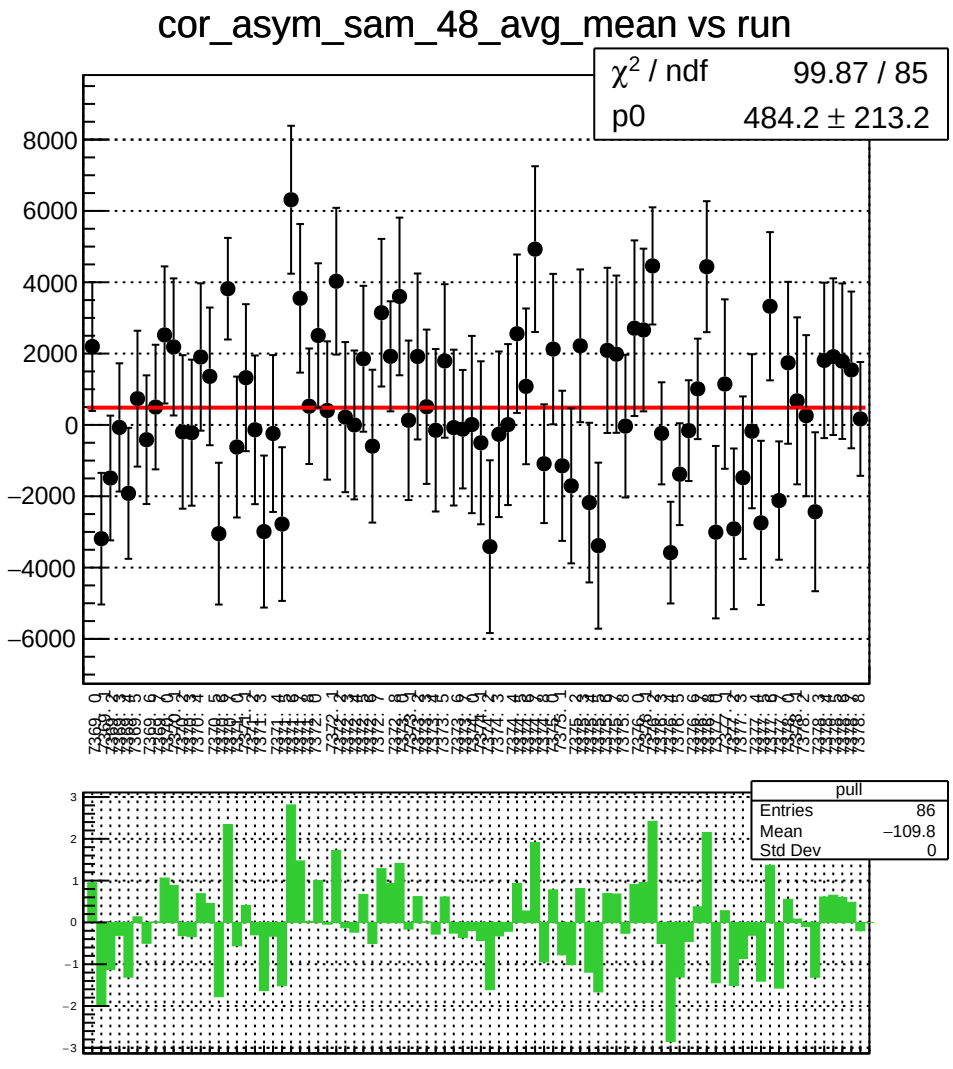

pull1D
Entries 86
Mean 0.007179
Std Dev 1.078

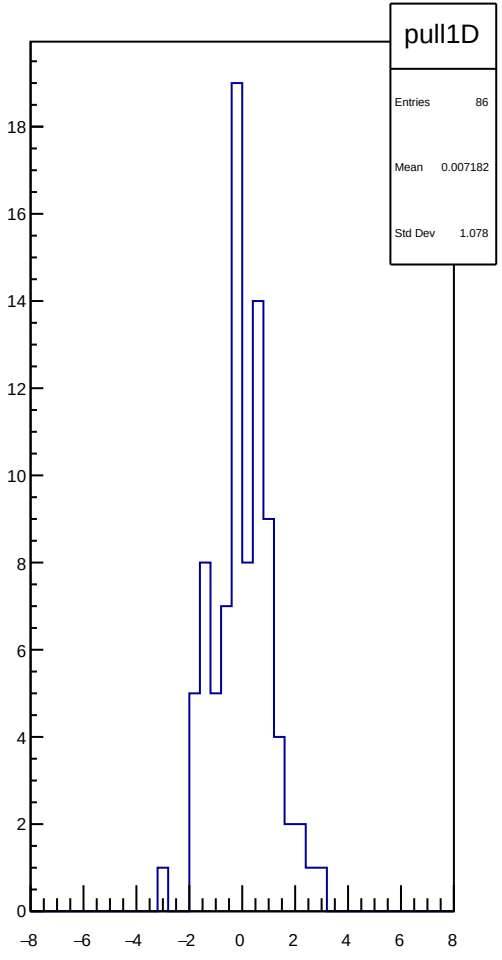

reg_asym_sam_48_avg_rms vs run
χ² / ndf 3.032e+04 / 85
p0 193.9 ± 0.1507
240
220
200
180
160
140

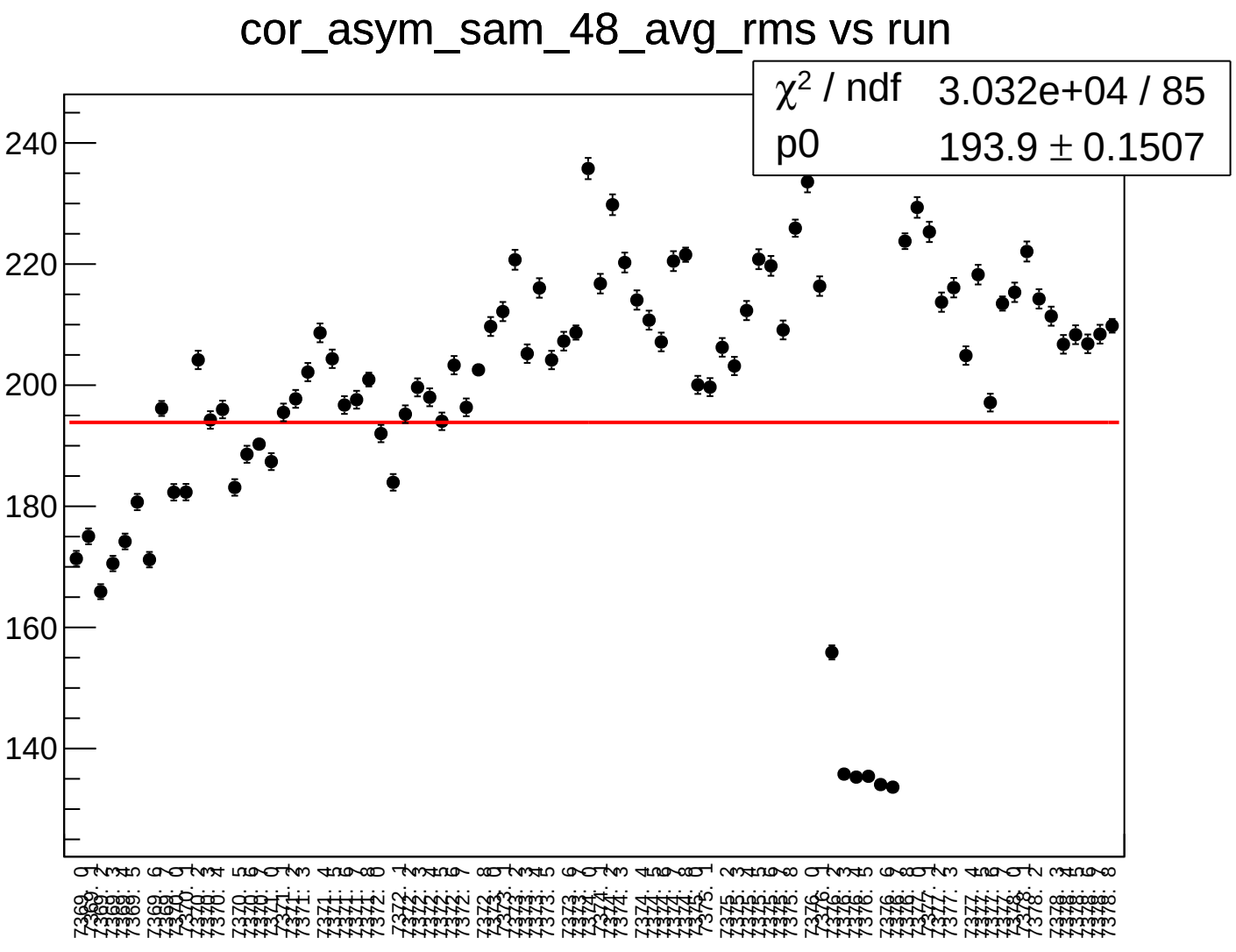

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 90.92 / 85
p0 569.2 ± 1178
pull
Entries 86
Mean −196.2
Std Dev 0

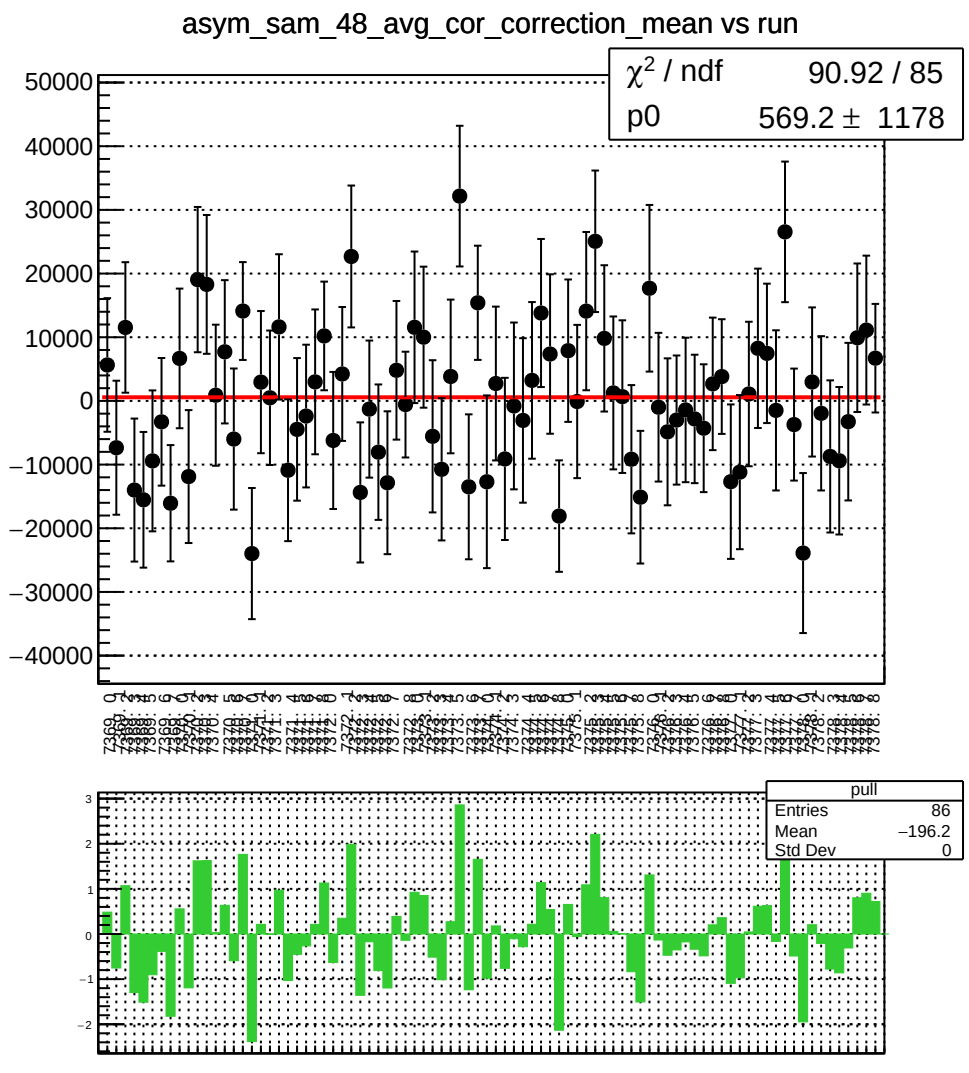

pull1D
Entries 86
Mean −0.005101
Std Dev 1.028

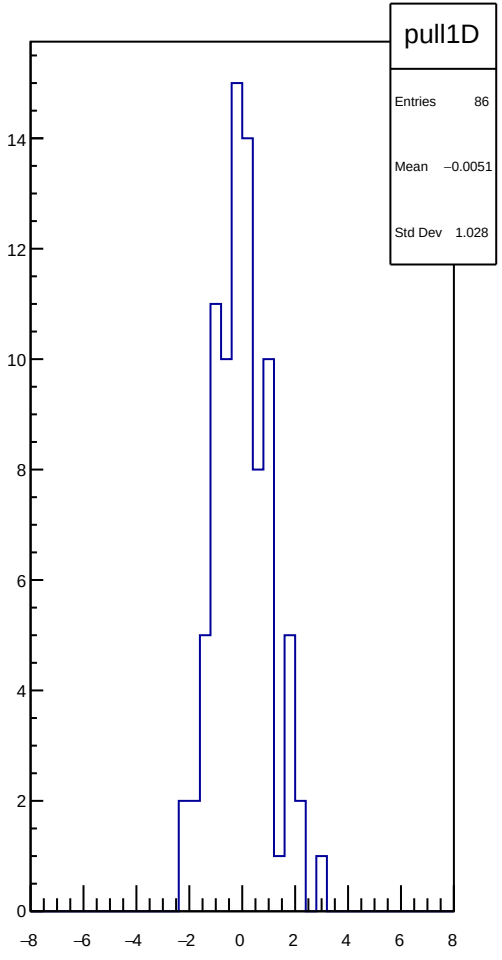

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 6898 / 85
p0 1079 ± 0.8329
1300
1250
1200
1150
1100
1050
1000
950

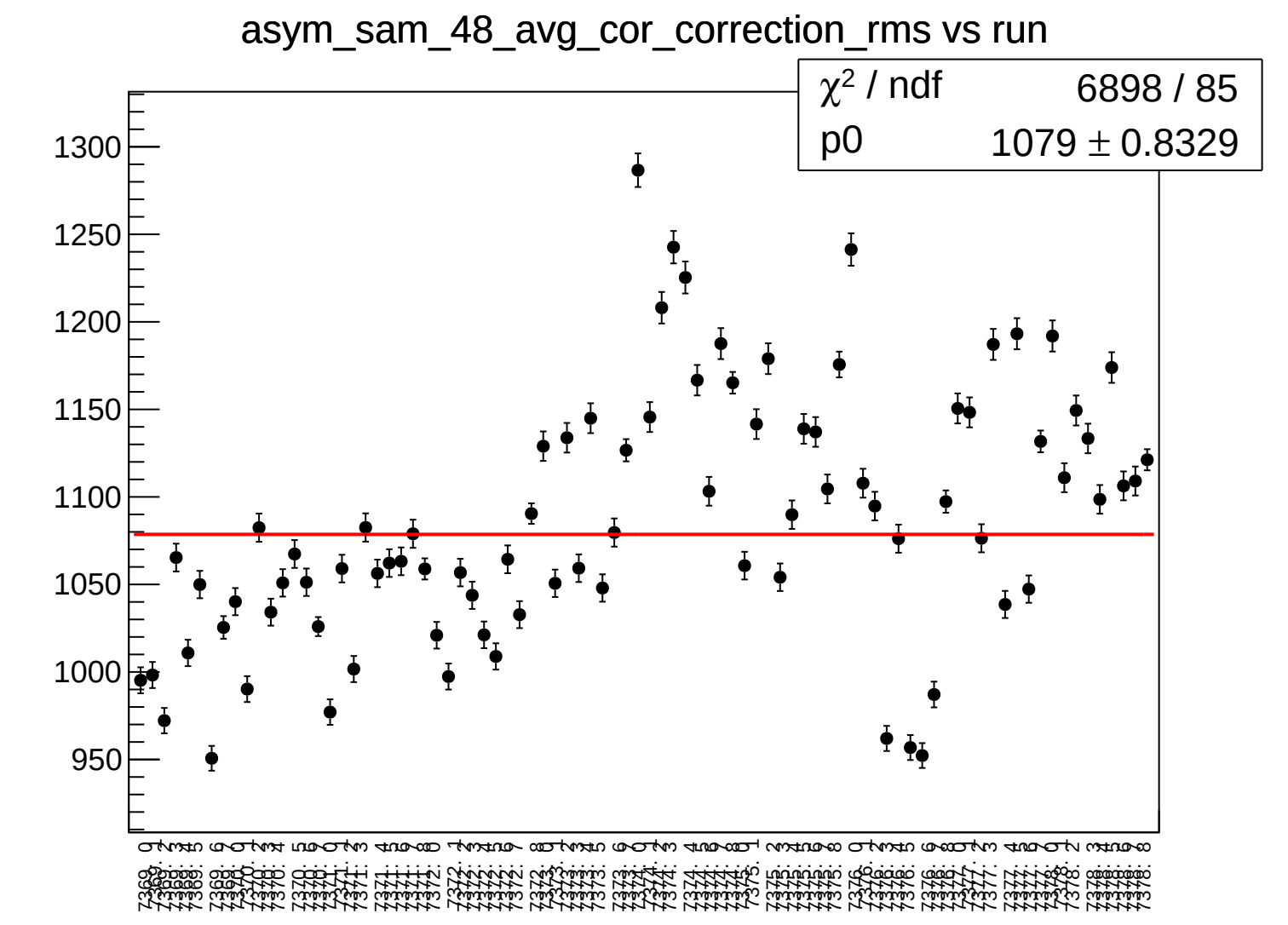

cor_asym_sam_48_avg_mean vs run
χ² / ndf 99.87 / 85
p0 484.2 ± 213.2
pull
Entries 86
Mean −109.8
Std Dev 0

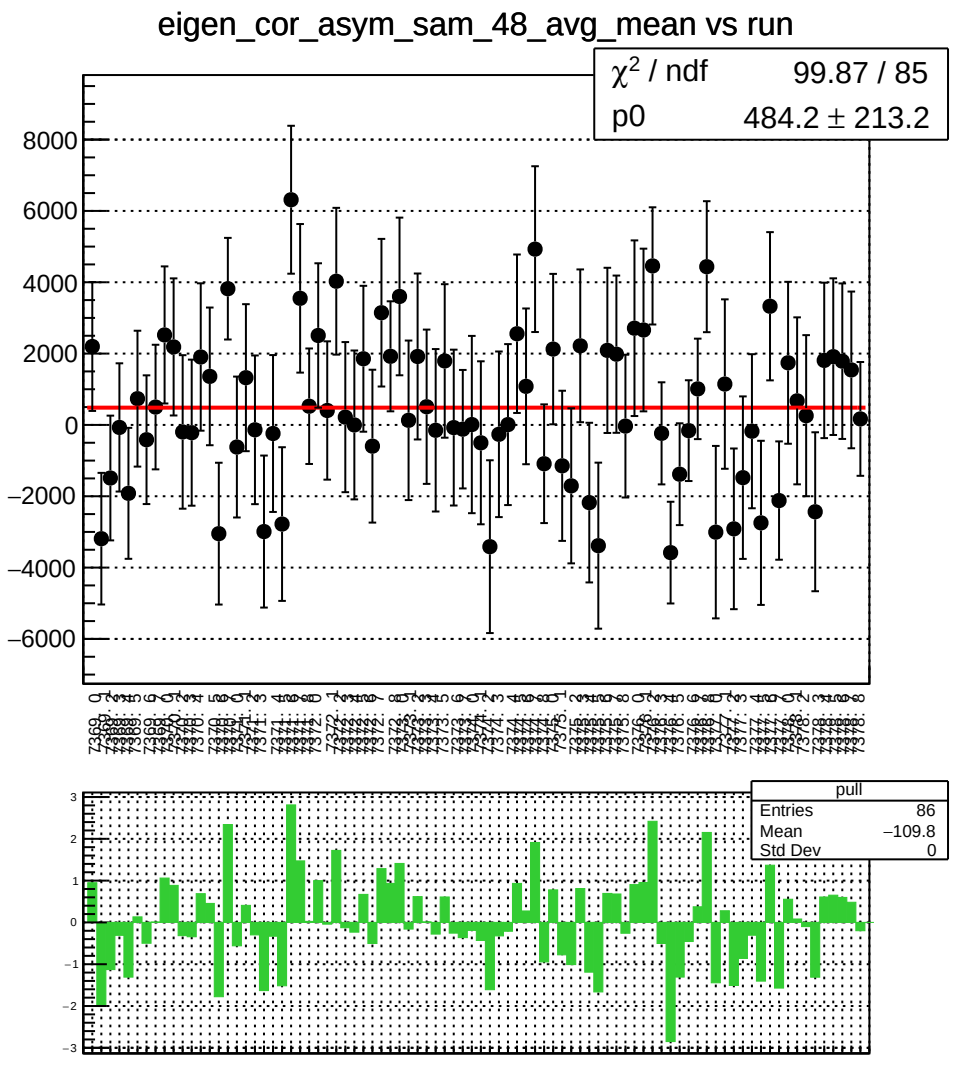

pull1D
Entries 86
Mean 0.007182
Std Dev 1.078

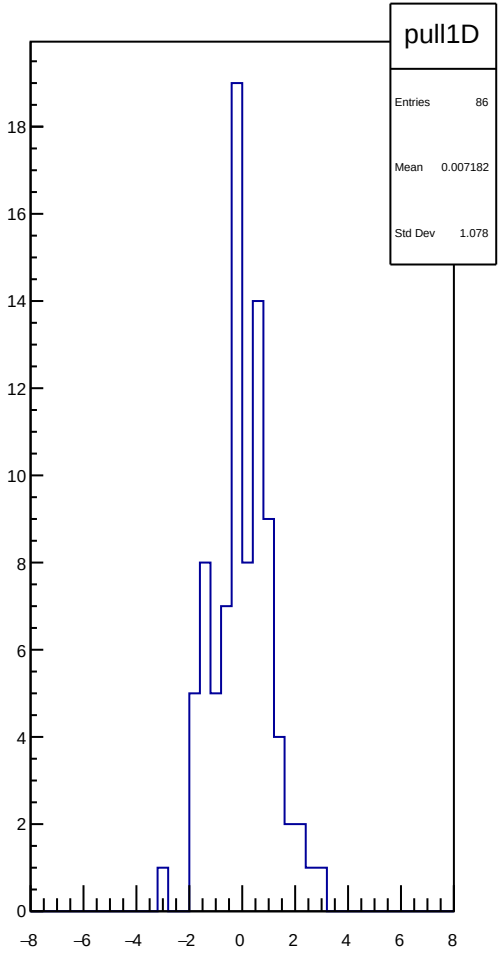

cor_asym_sam_48_avg_rms vs run
χ² / ndf 3.032e+04 / 85
p0 193.9 ± 0.1507
240
220
200
180
160
140

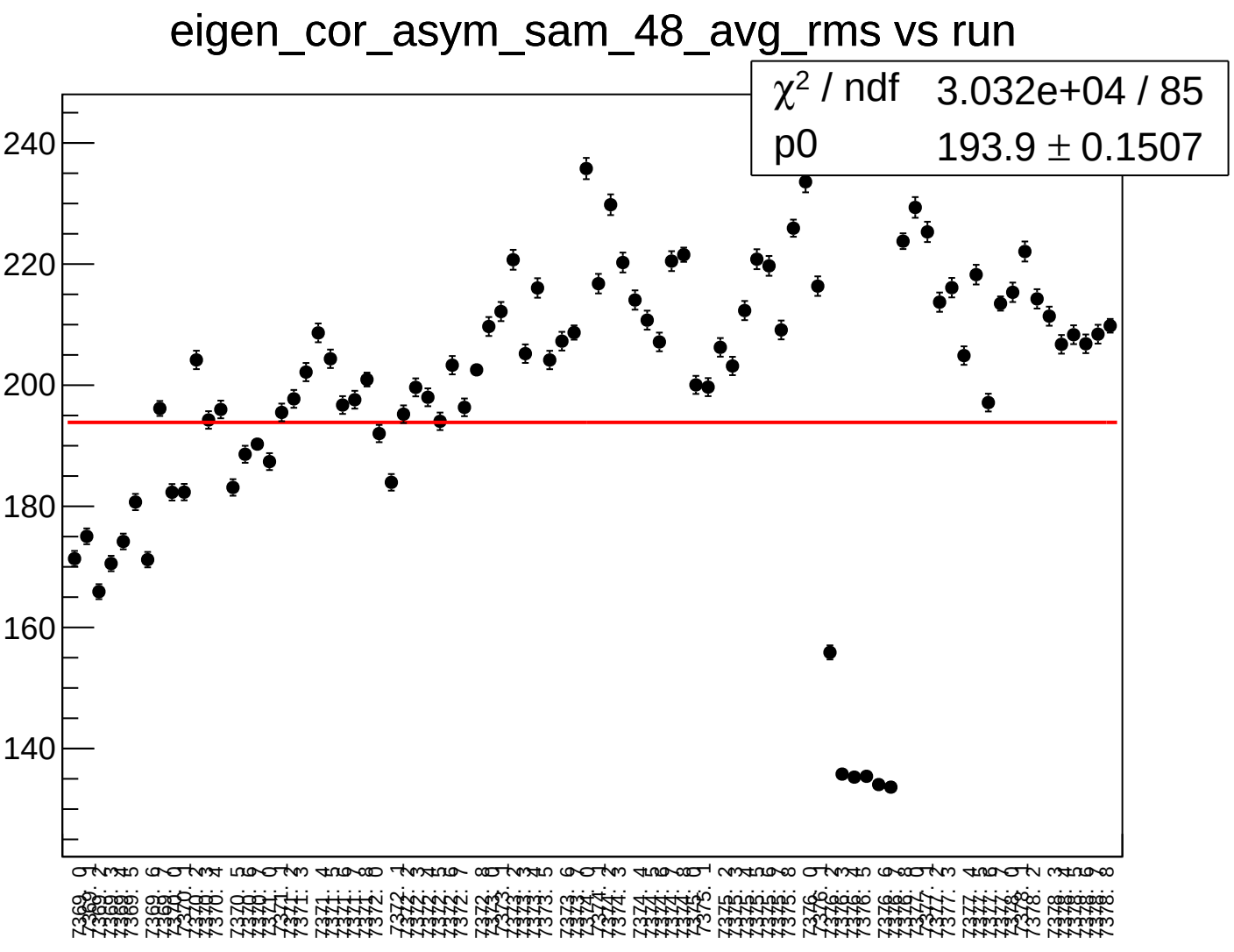

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 90.92 / 85
p0 569.2 ± 1178
pull
Entries 86
Mean −196.2
Std Dev 0

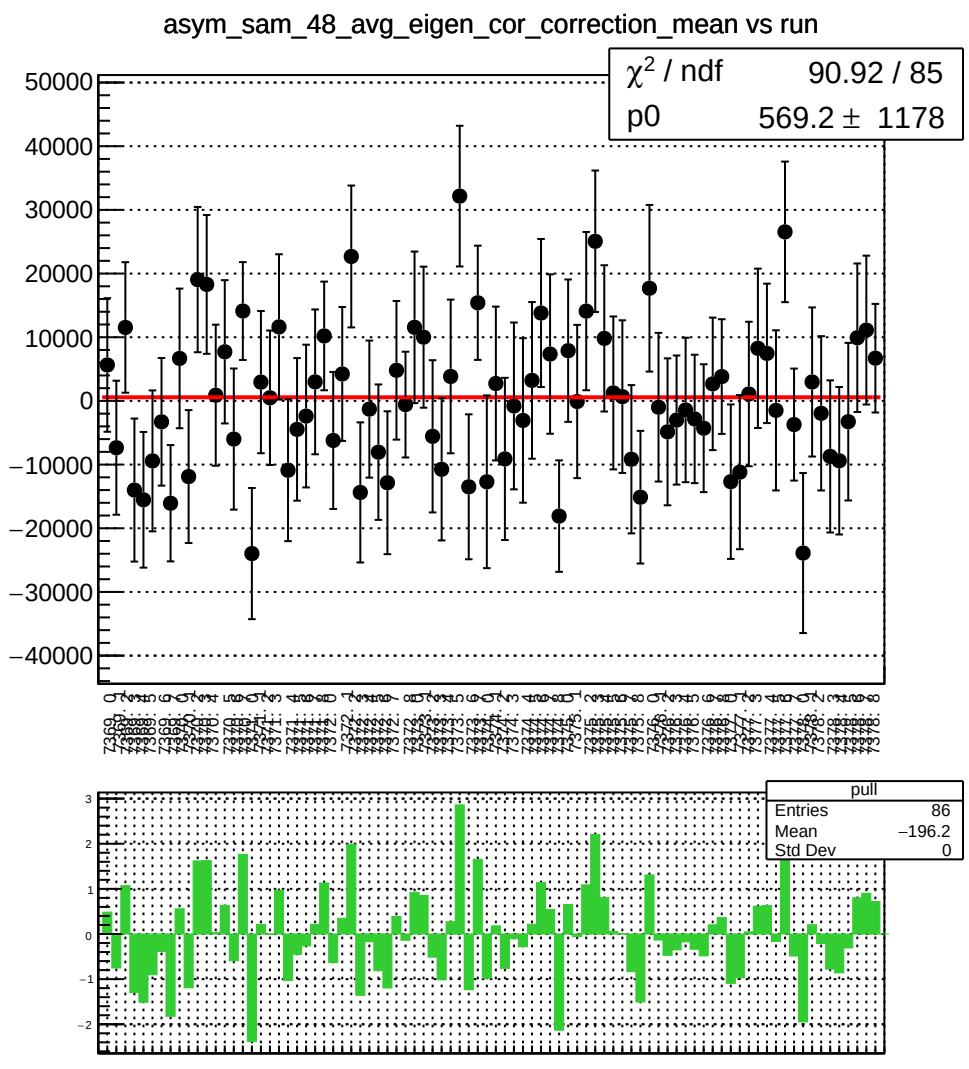

pull1D
Entries 86
Mean −0.0051
Std Dev 1.028

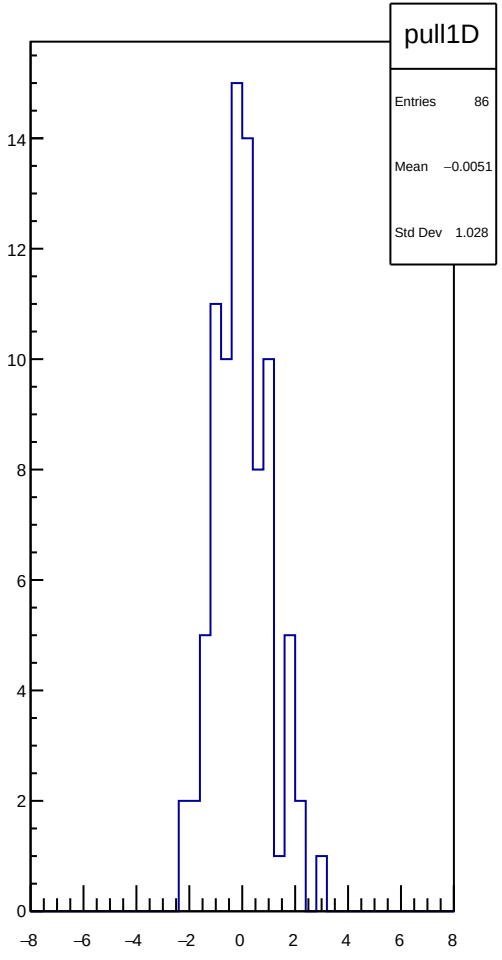

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 6898 / 85
p0 1079 ± 0.8329
1300
1250
1200
1150
1100
1050
1000
950

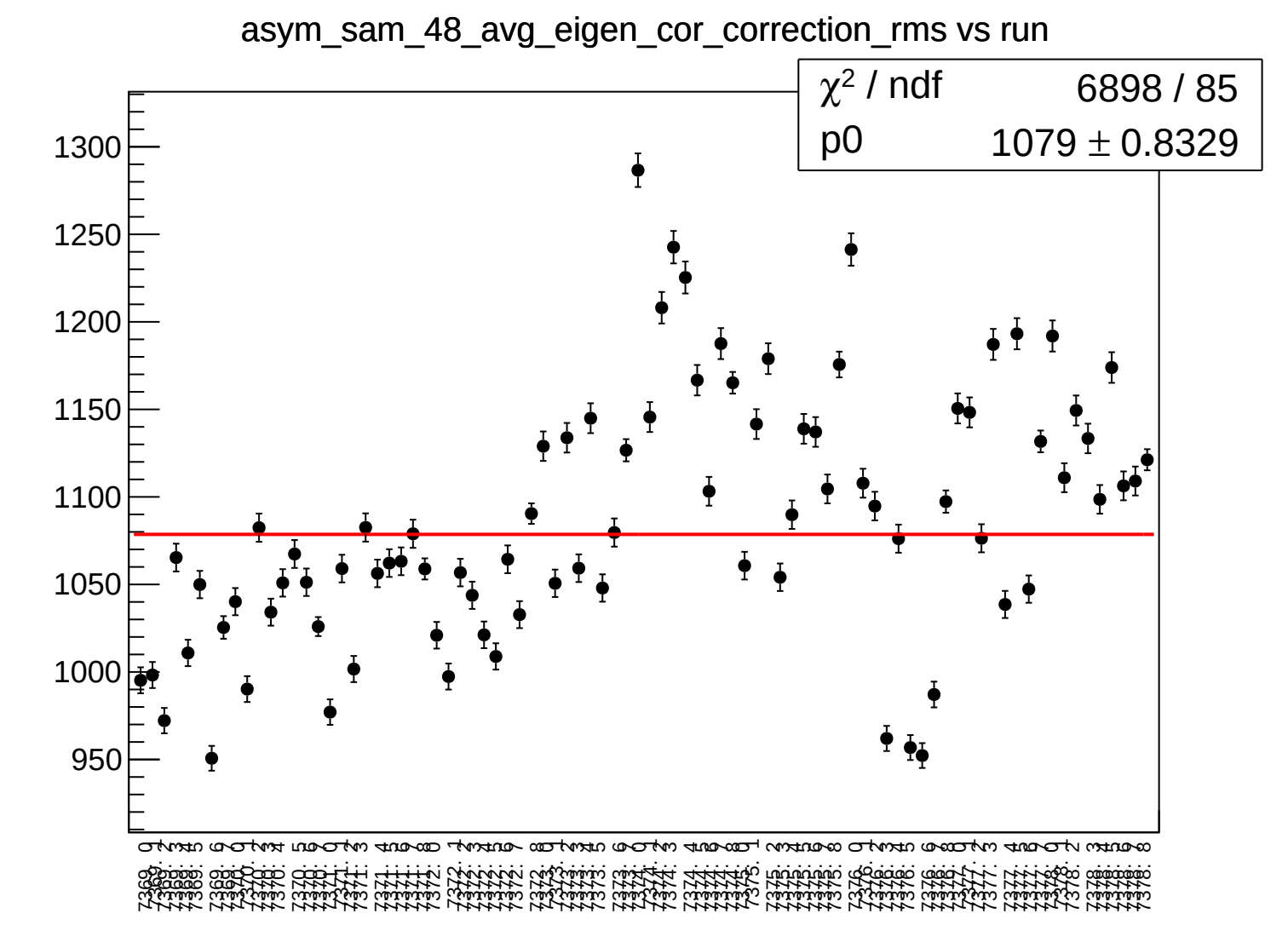

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 99.87 / 85
p0 484.2 ± 213.2
pull
Entries 86
Mean −109.8
Std Dev 0

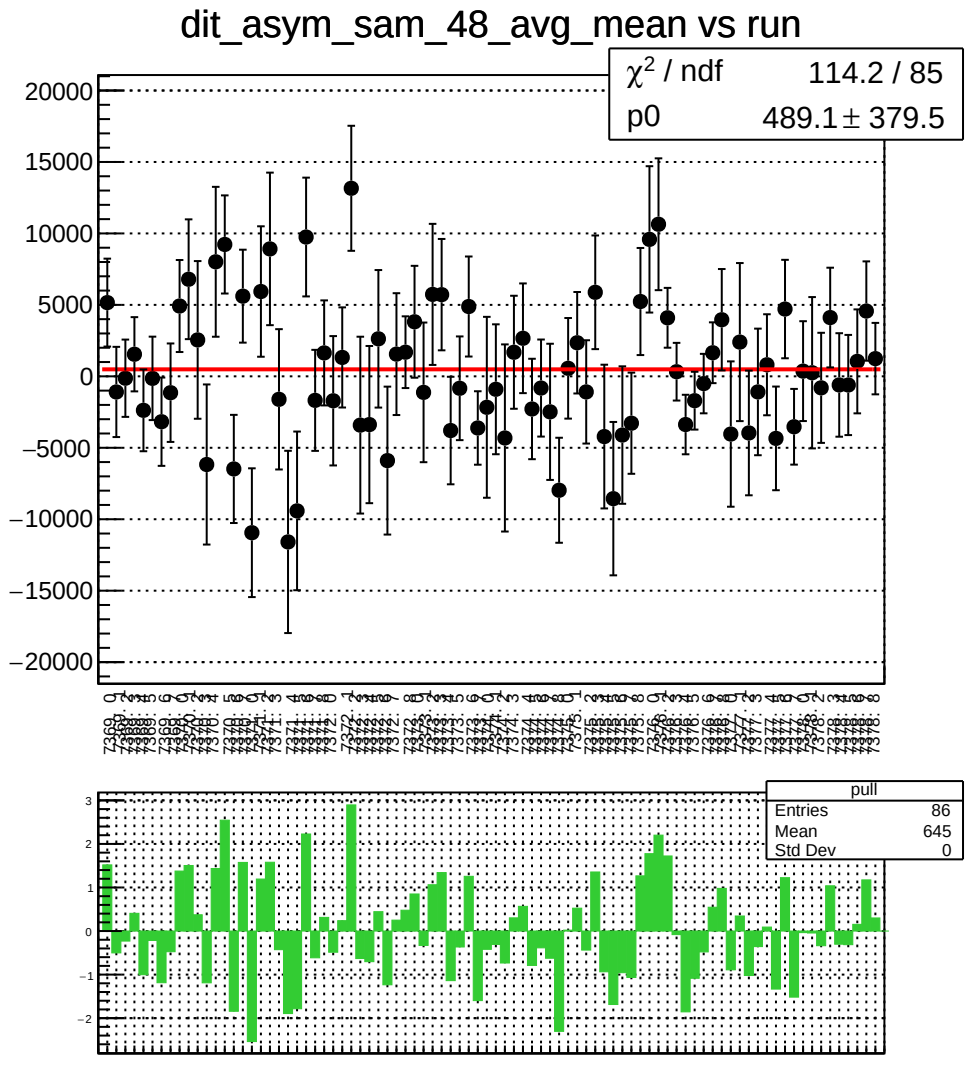

pull1D
Entries 86
Mean 0.007182
Std Dev 1.078

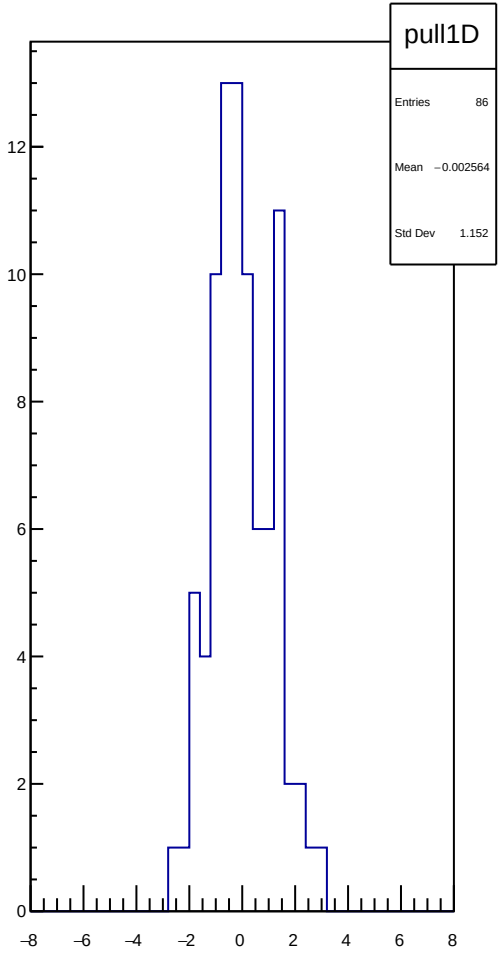

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 3.032e+04 / 85
p0 193.9 ± 0.1507
240
220
200
180
160
140

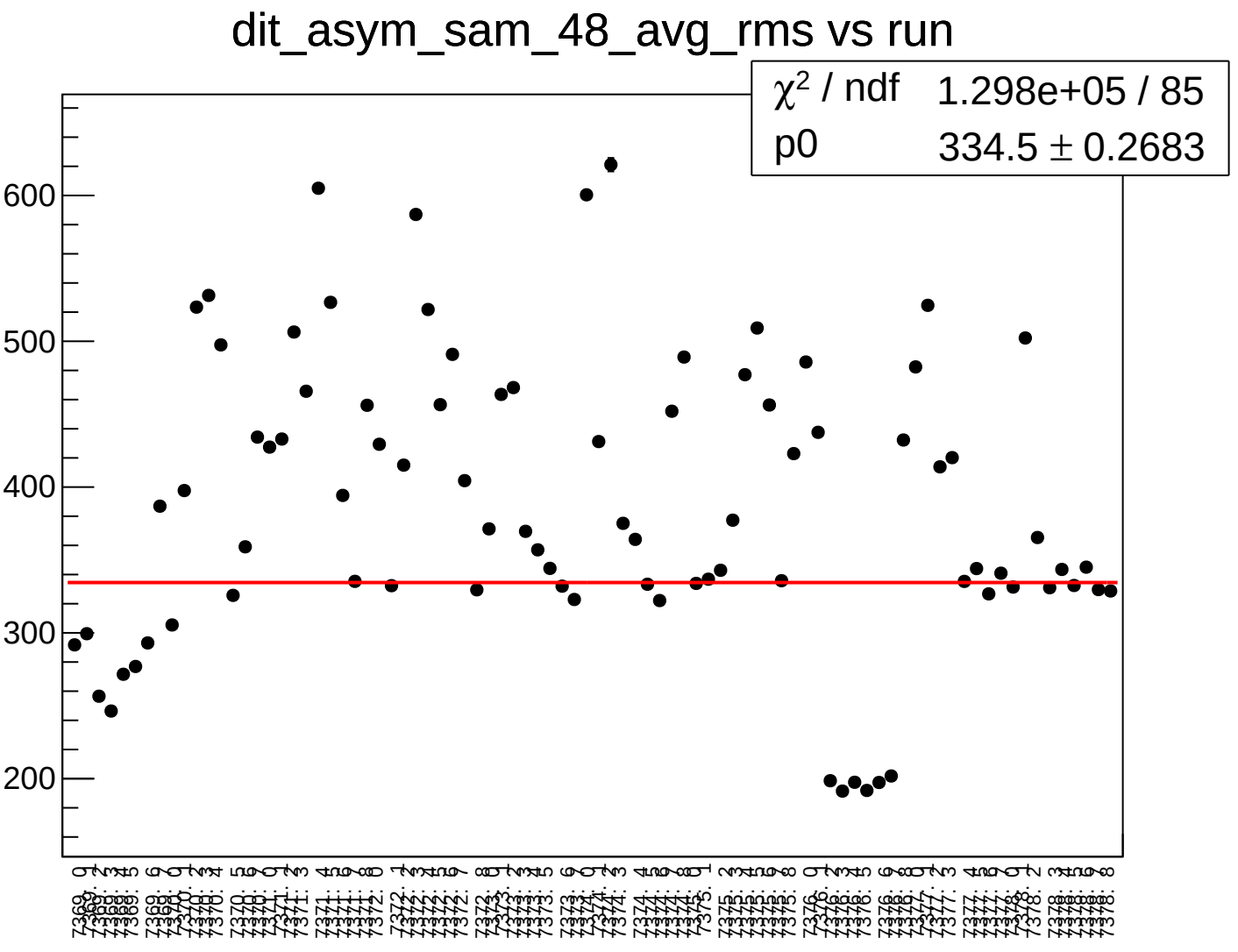

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.92 / 85
p0 569.2 ± 1178
pull
Entries 86
Mean −196.2
Std Dev 0

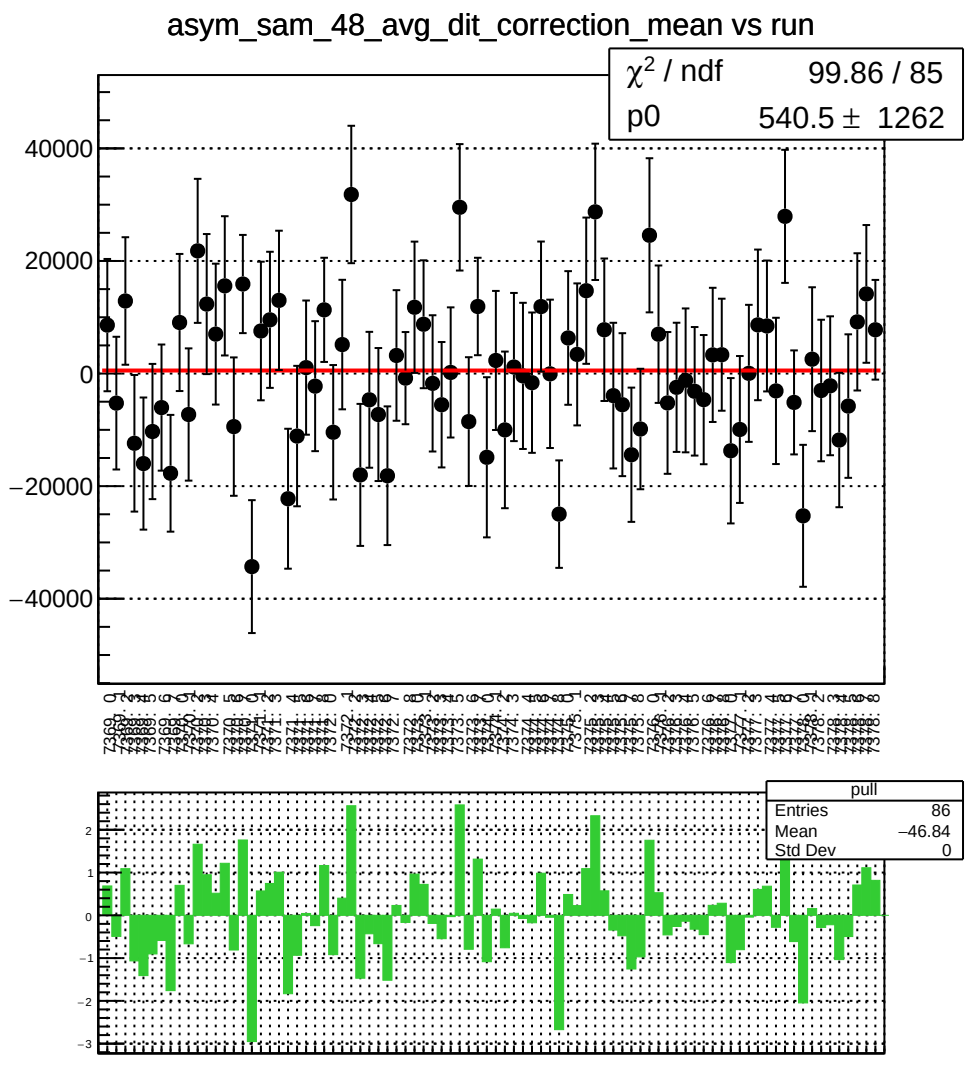

pull1D
Entries 86
Mean −0.0051
Std Dev 1.028

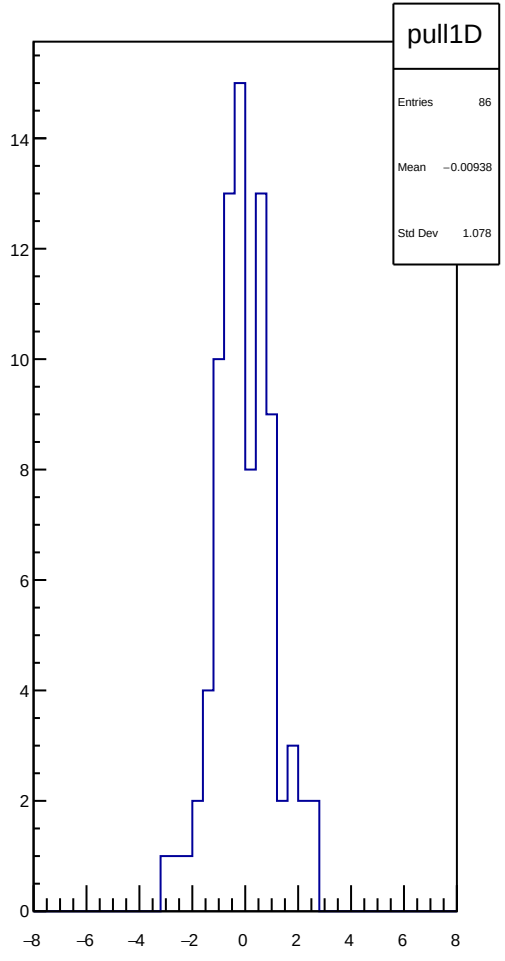

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 6898 / 85
p0 1079 ± 0.8329
1300
1250
1200
1150
1100
1050
1000
950

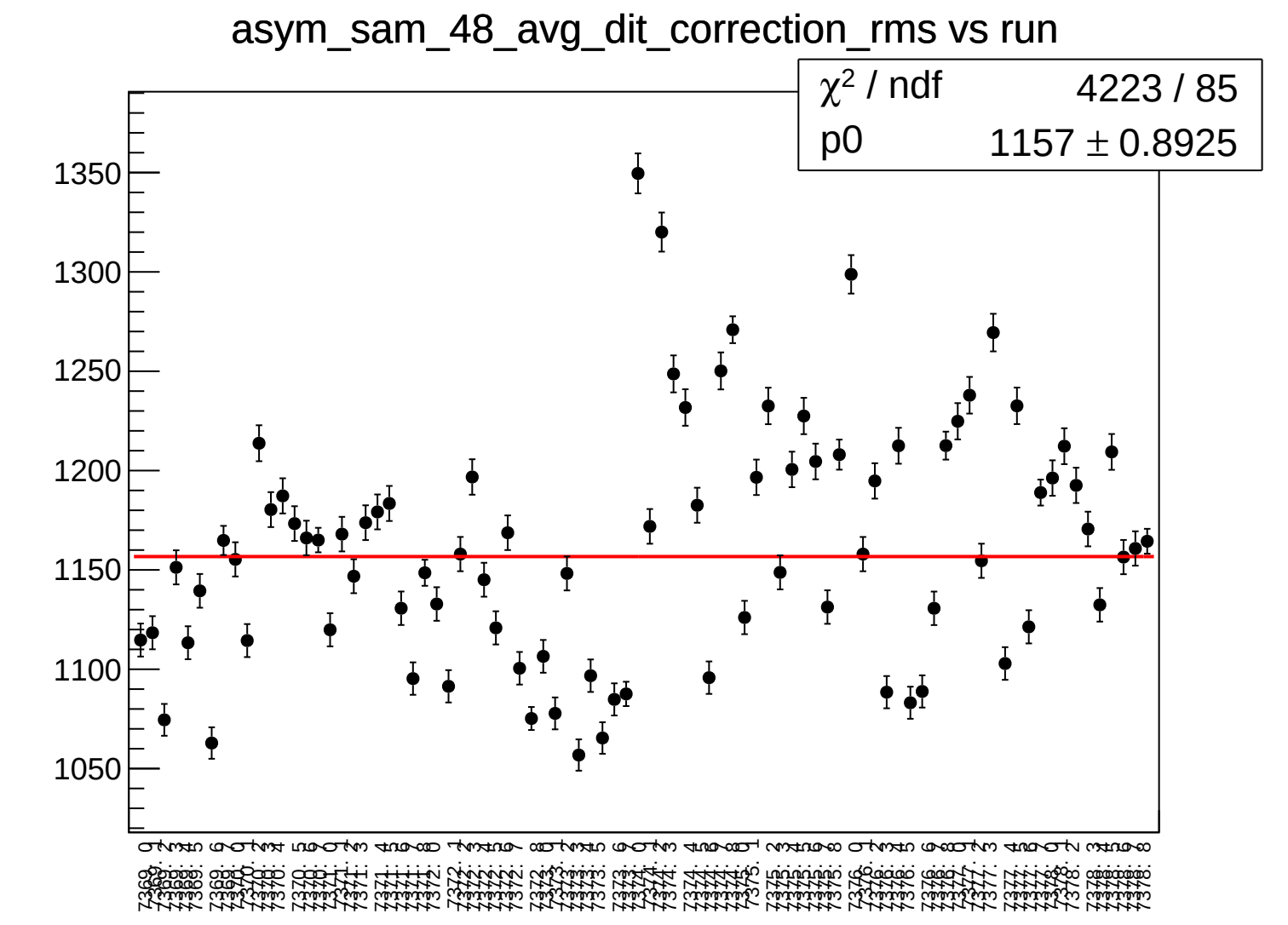

dit_asym_sam_48_avg_mean vs run
χ² / ndf 114.2 / 85
p0 489.1 ± 379.5
pull
Entries 86
Mean 645
Std Dev 0

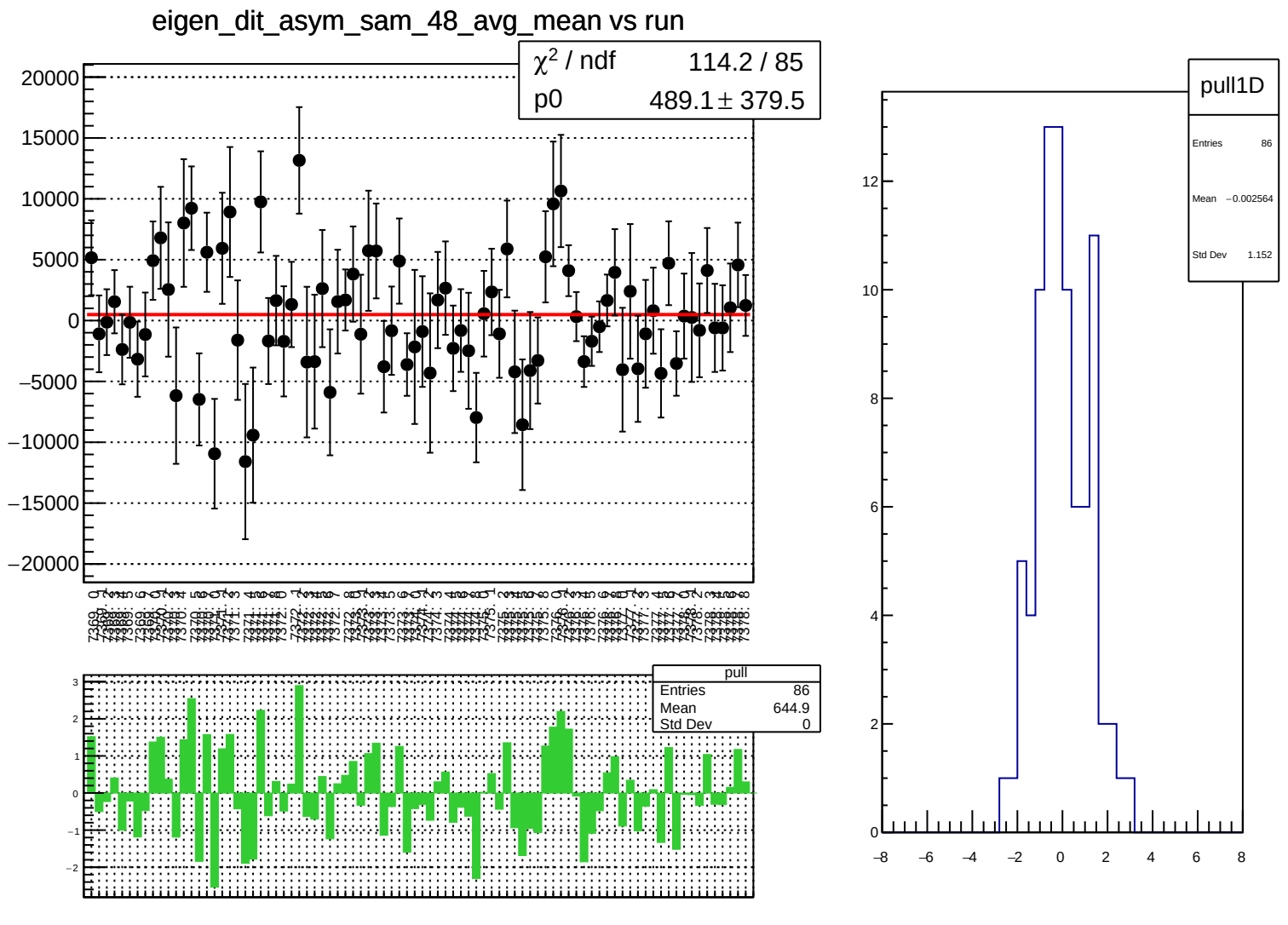

pull1D
Entries 86
Mean −0.002564
Std Dev 1.152

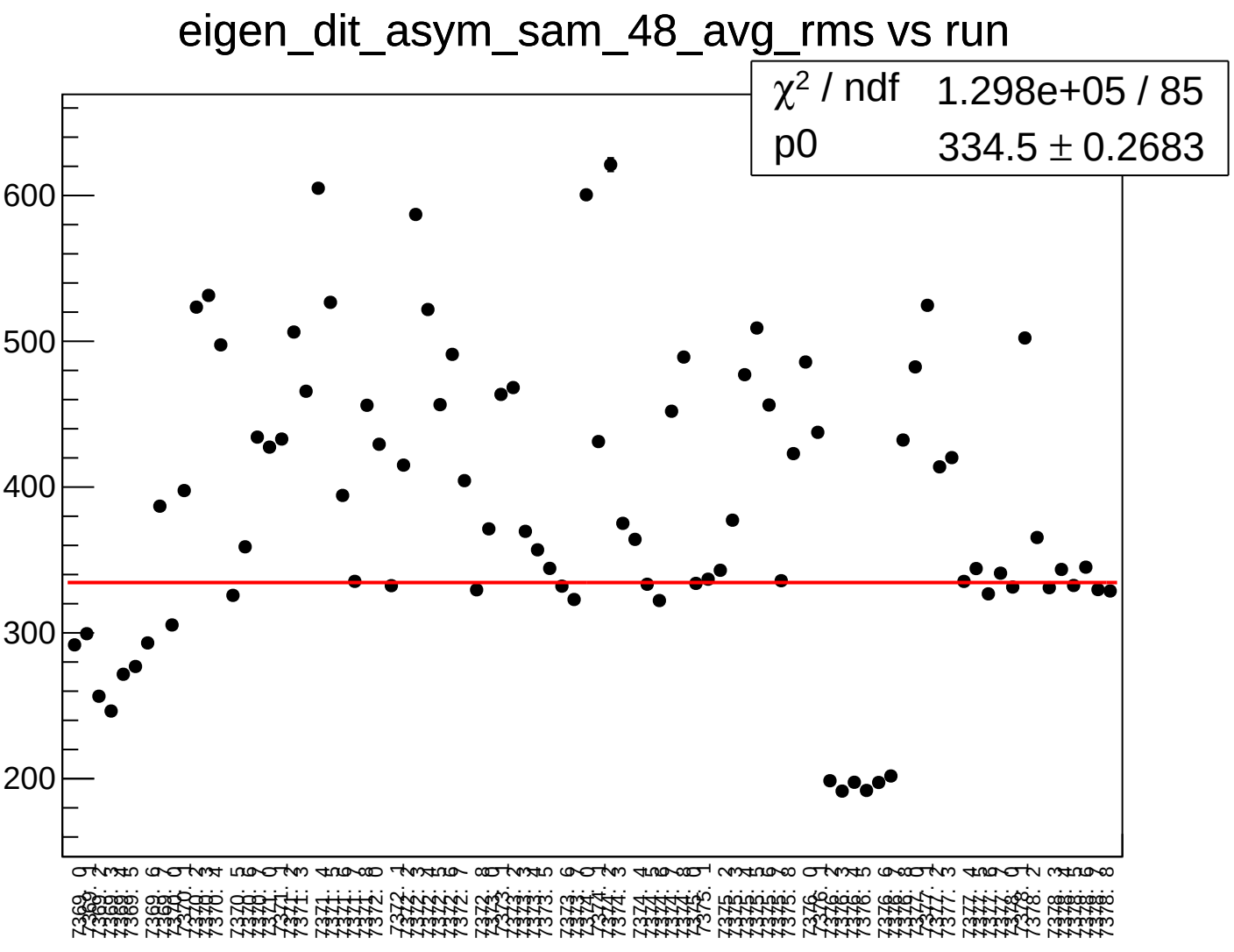

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.298e+05 / 85
p0 334.5 ± 0.2683
600
500
400
300
200

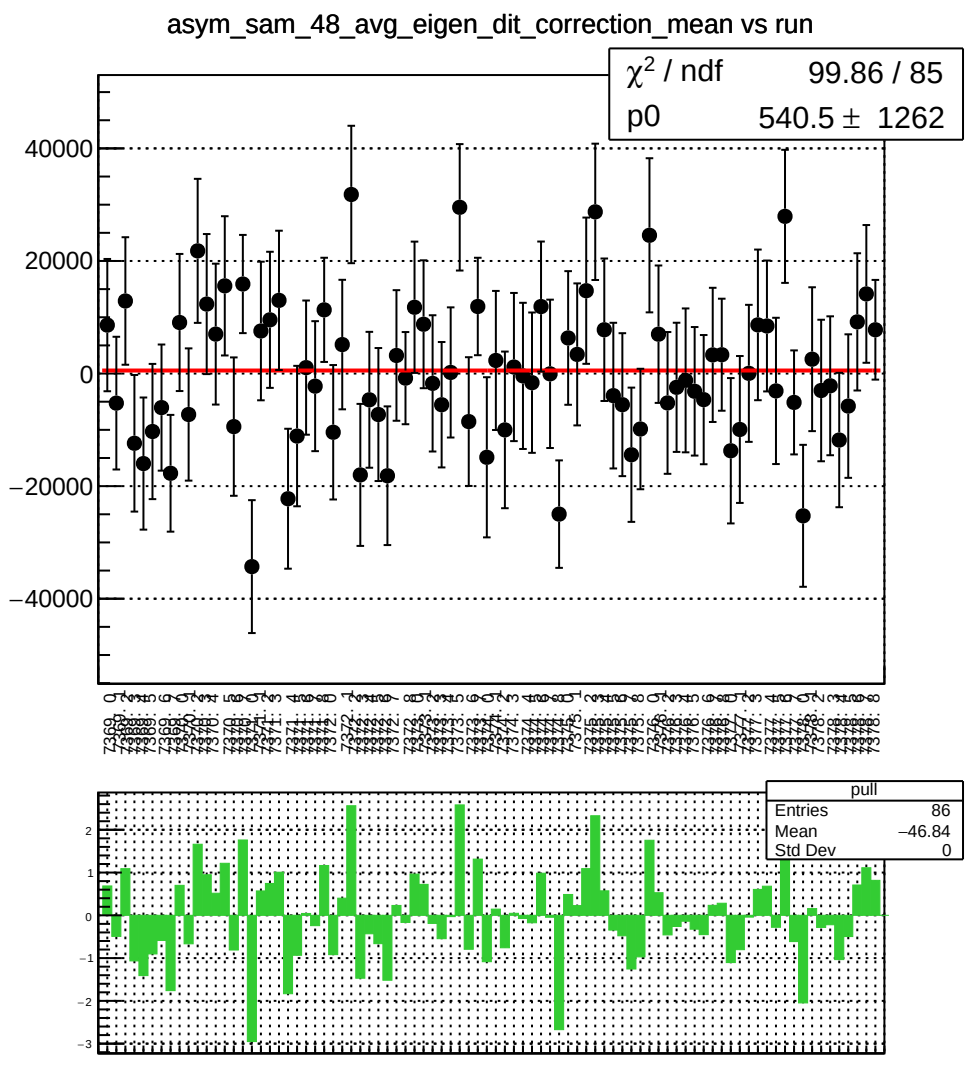

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 99.86 / 85
p0 540.5 ± 1262
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −46.84
Std Dev 0
2
1
0
−1
−2
−3

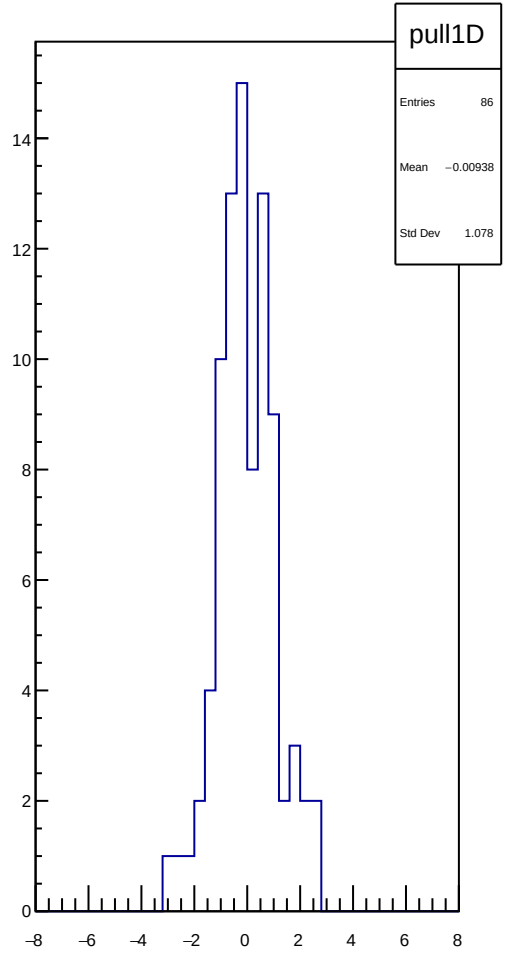

pull1D
Entries 86
Mean −0.00938
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

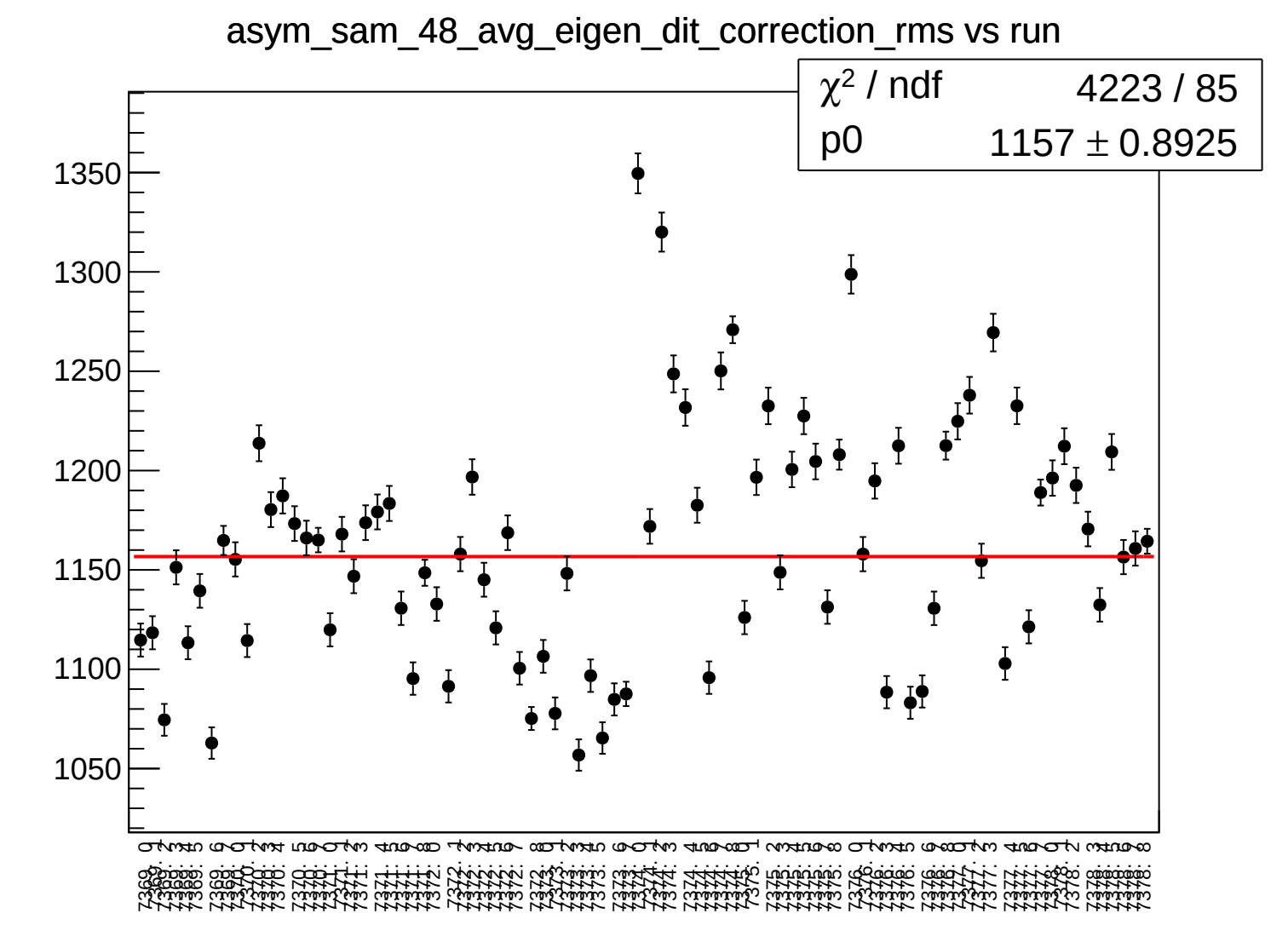

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 4223 / 85
p0 1157 ± 0.8925
1350
1300
1250
1200
1150
1100
1050

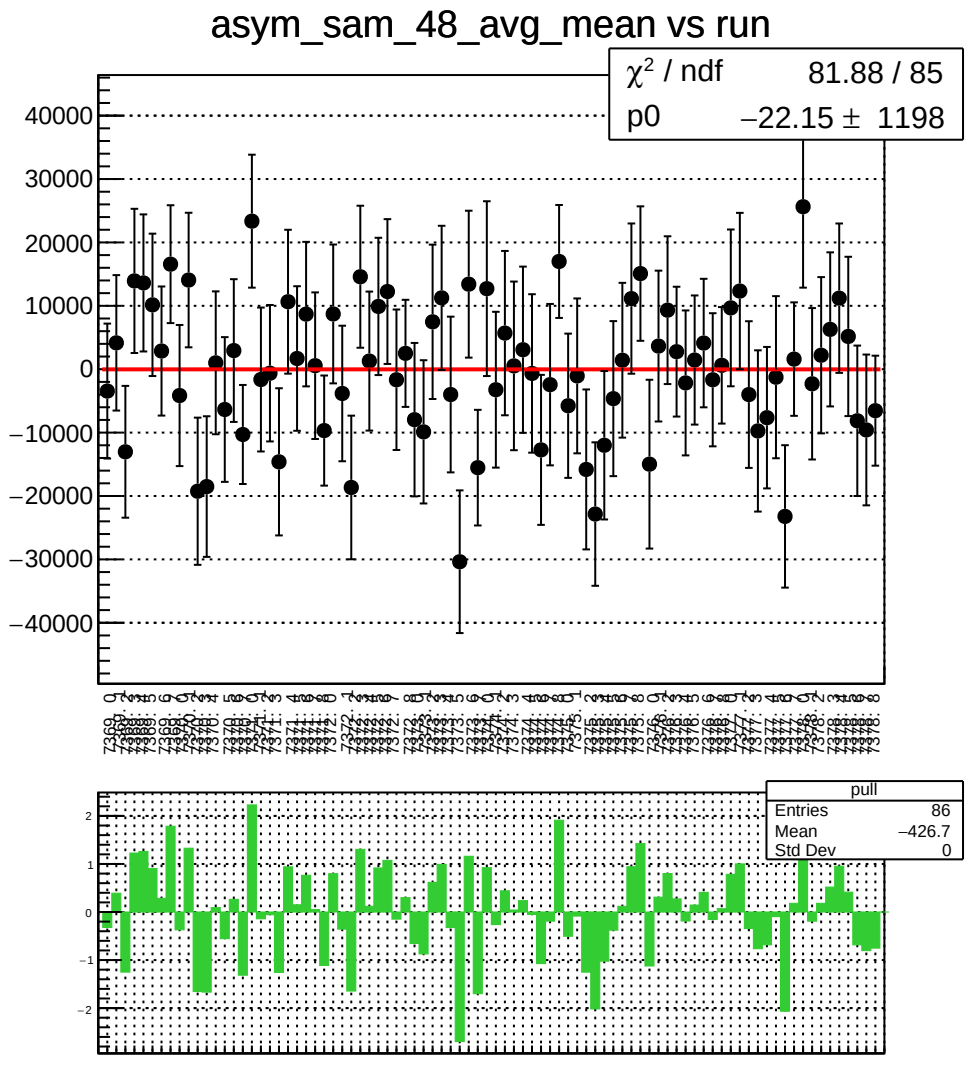

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 114.2 / 85
p0 489.1 ± 379.5
pull
Entries 86
Mean 644.9
Std Dev 0
pull1D
Entries 86
Mean −0.002564
Std Dev 1.152

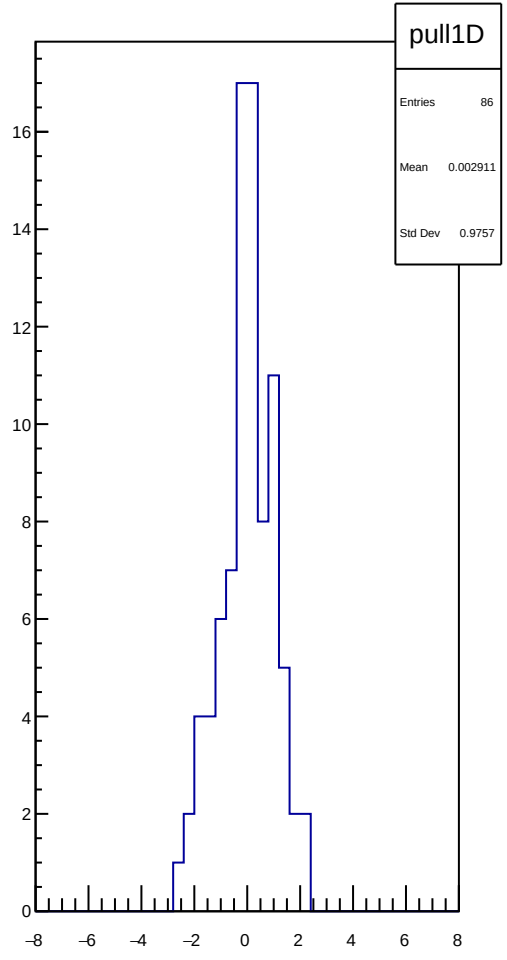

eigen_dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.298e+05 / 85
p0 334.5 ± 0.2683
600
500
400
300
200

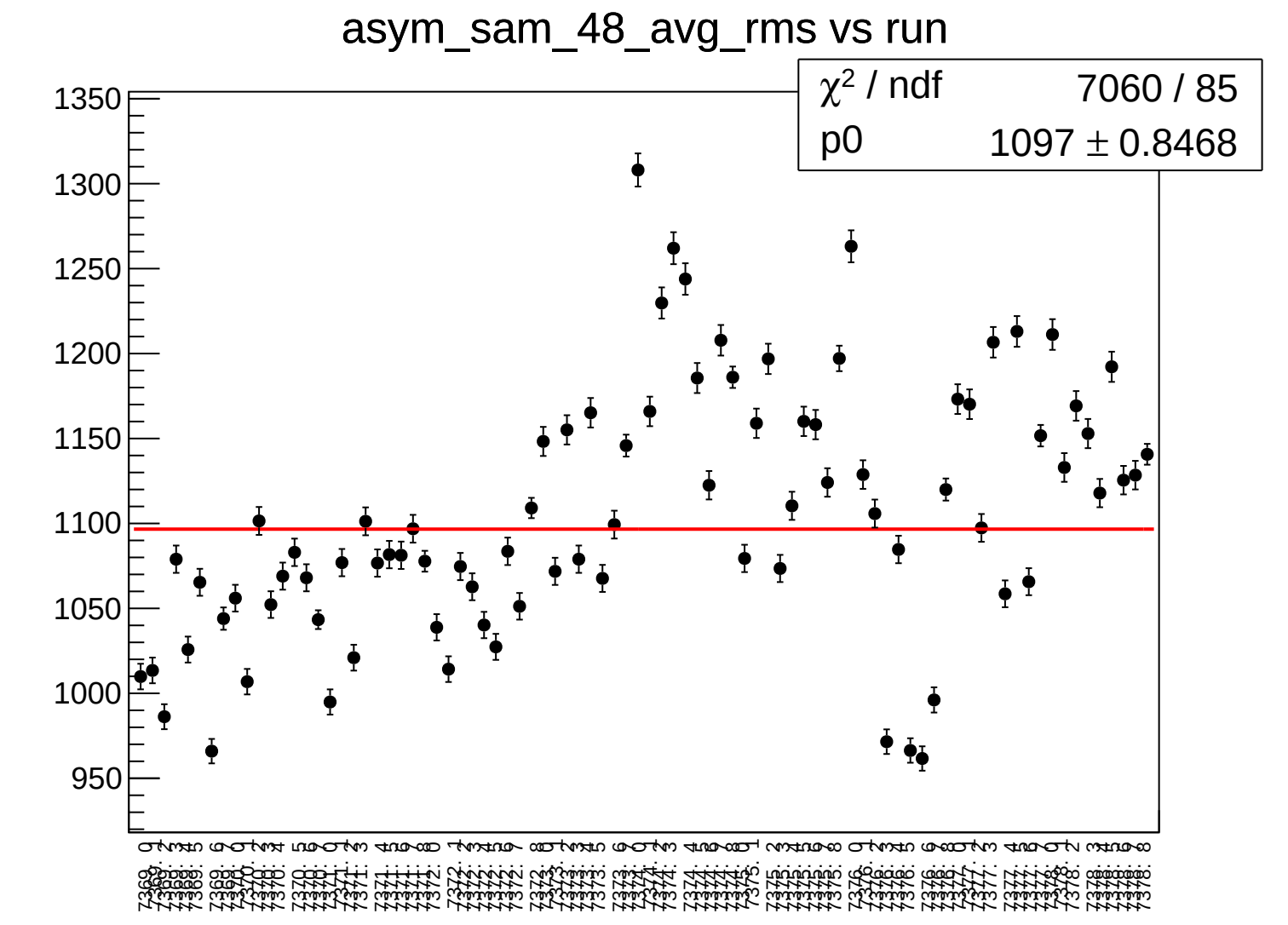

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.86 / 85
p0 540.5 ± 1262
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −46.84
Std Dev 0
2
1
0
−1
−2
−3

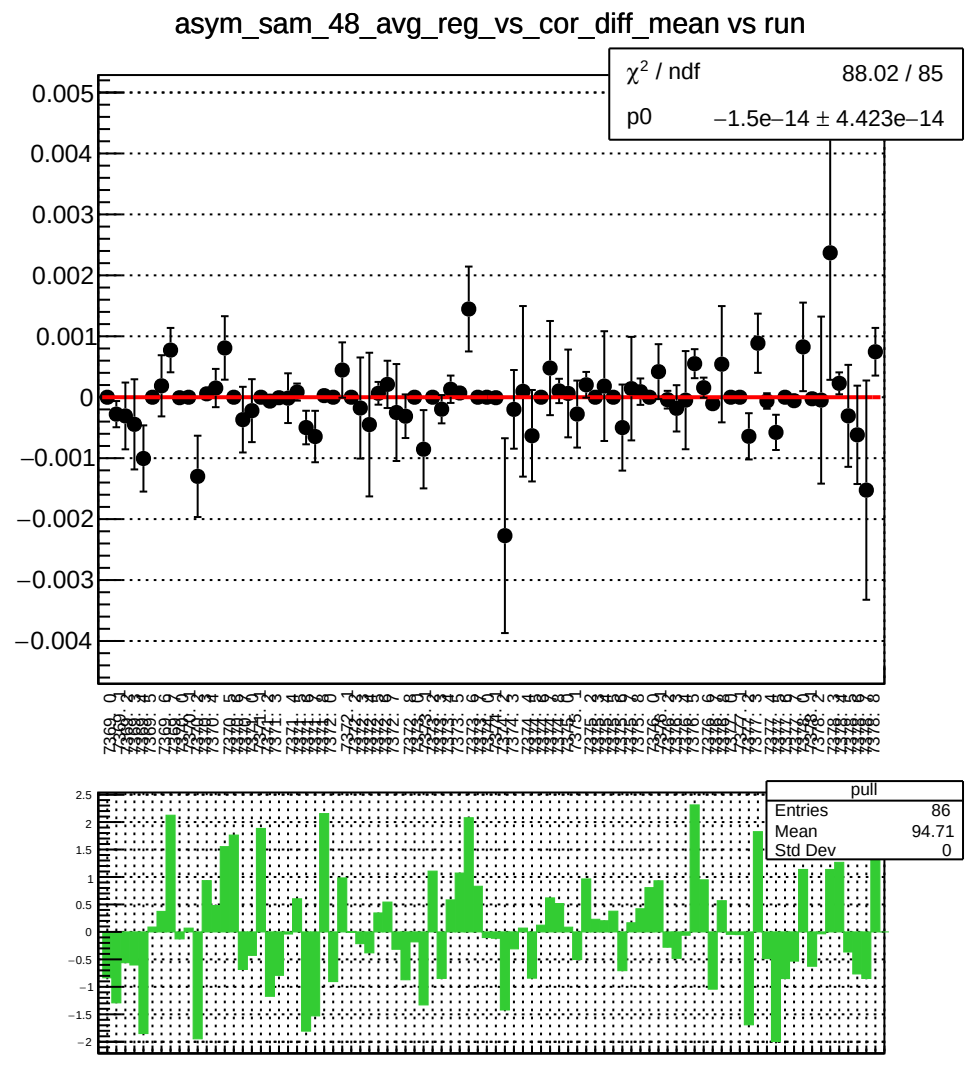

pull1D
Entries 86
Mean −0.00938
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

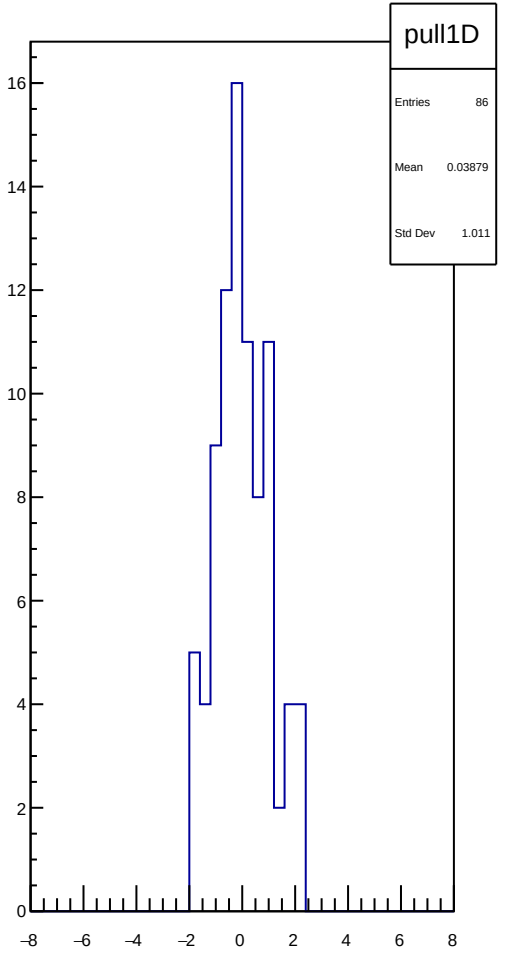

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 4223 / 85
p0 1157 ± 0.8925
1350
1300
1250
1200
1150
1100
1050

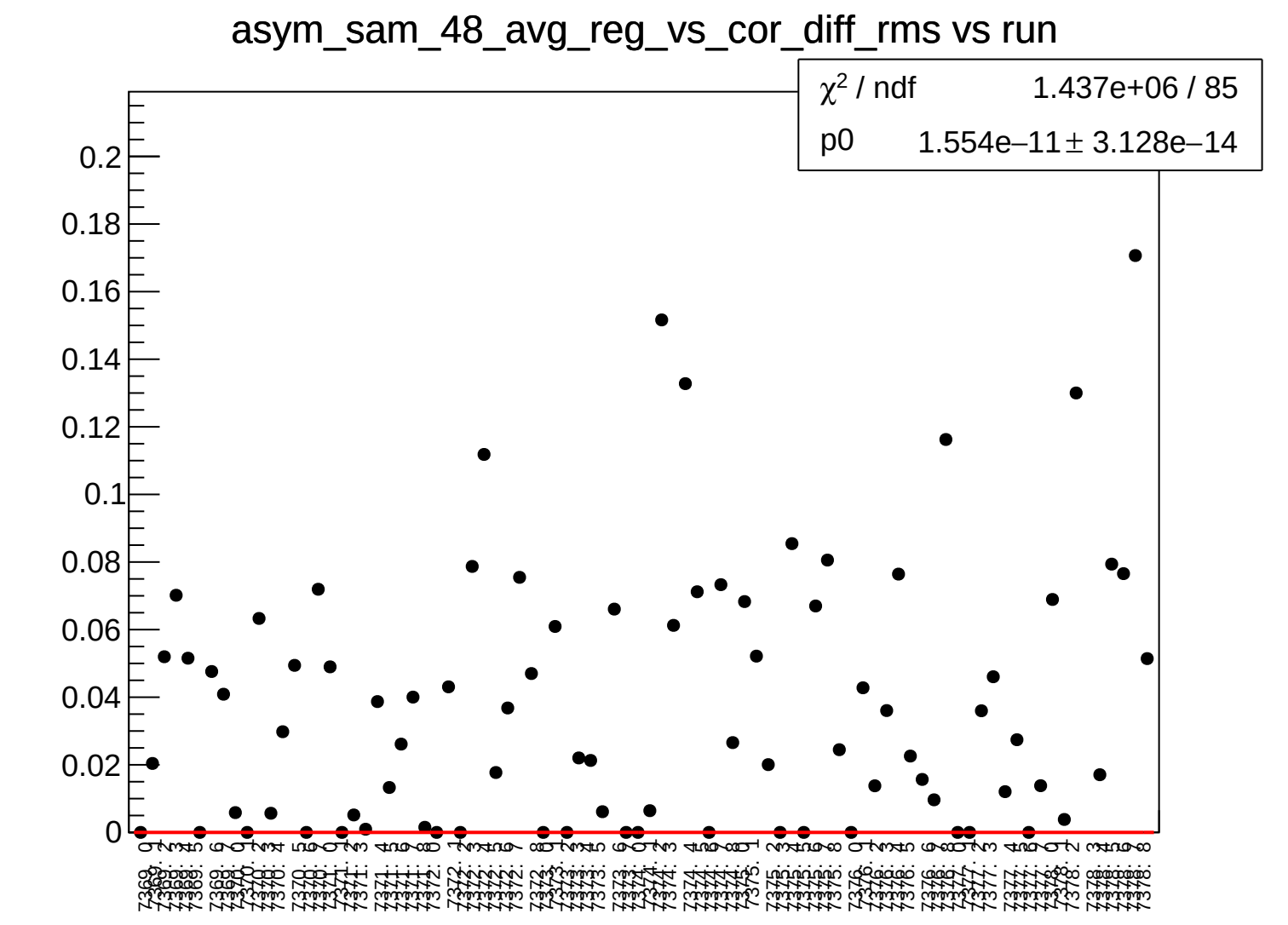

asym_sam_48_avg_mean vs run
χ² / ndf 81.88 / 85
p0 −22.15 ± 1198
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −426.7
Std Dev 0
2
1
0
−1
−2

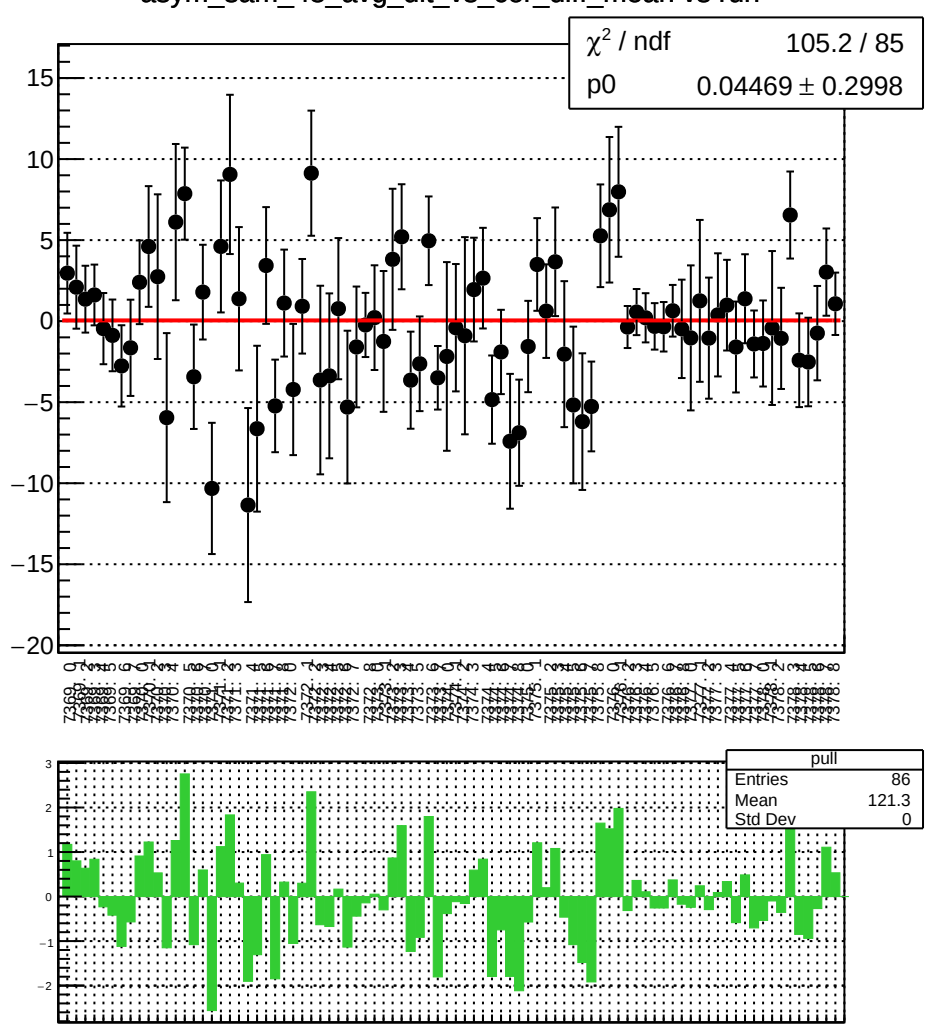

pull1D
Entries 86
Mean 0.002911
Std Dev 0.9757
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

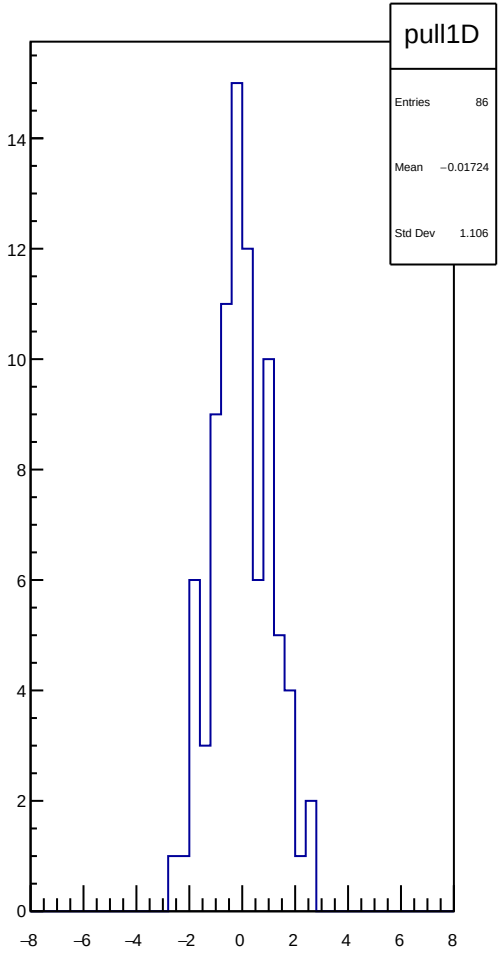

asym_sam_48_avg_rms vs run
χ² / ndf 7060 / 85
p0 1097 ± 0.8468
1350
1300
1250
1200
1150
1100
1050
1000
950

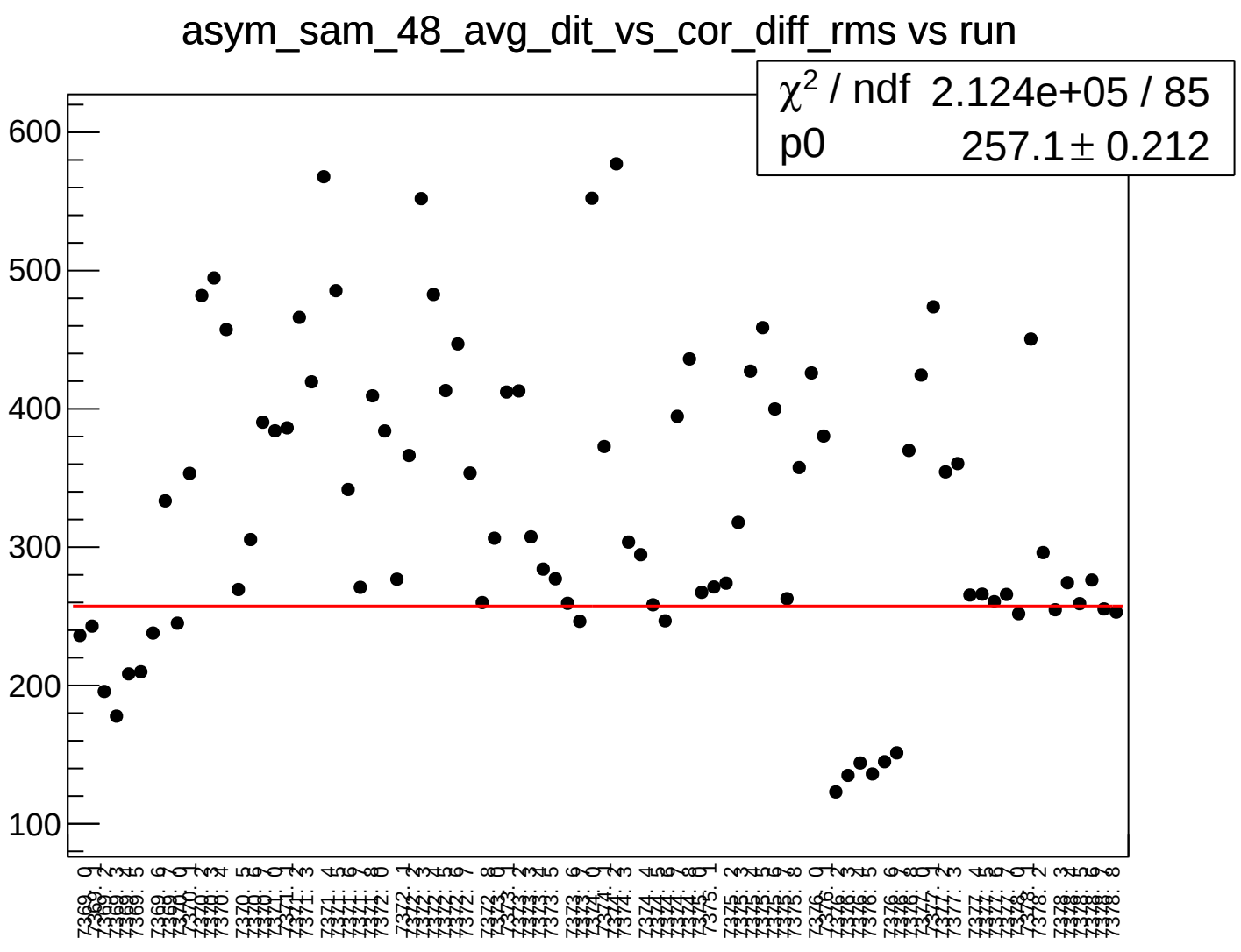

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.02 / 85
p0 −1.5e−14 ± 4.423e−14
pull
Entries 86
Mean 94.71
Std Dev 0

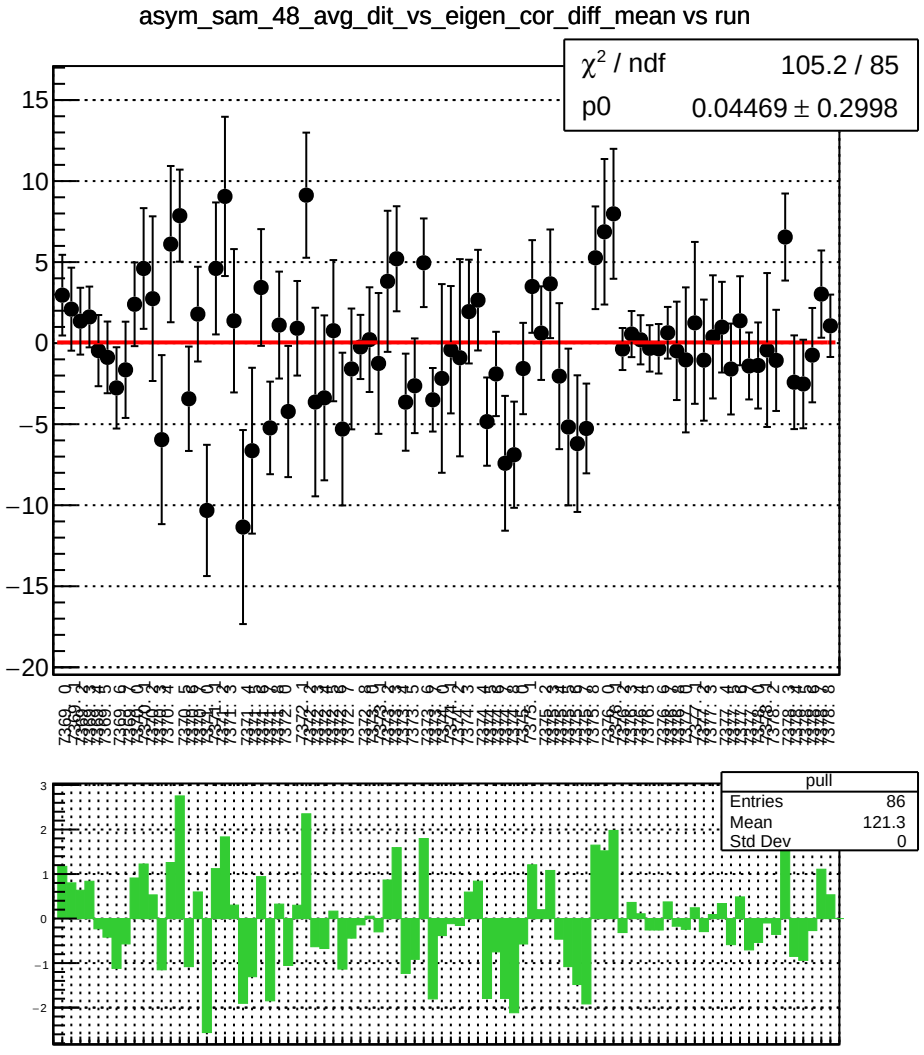

pull1D
Entries 86
Mean 0.03879
Std Dev 1.011

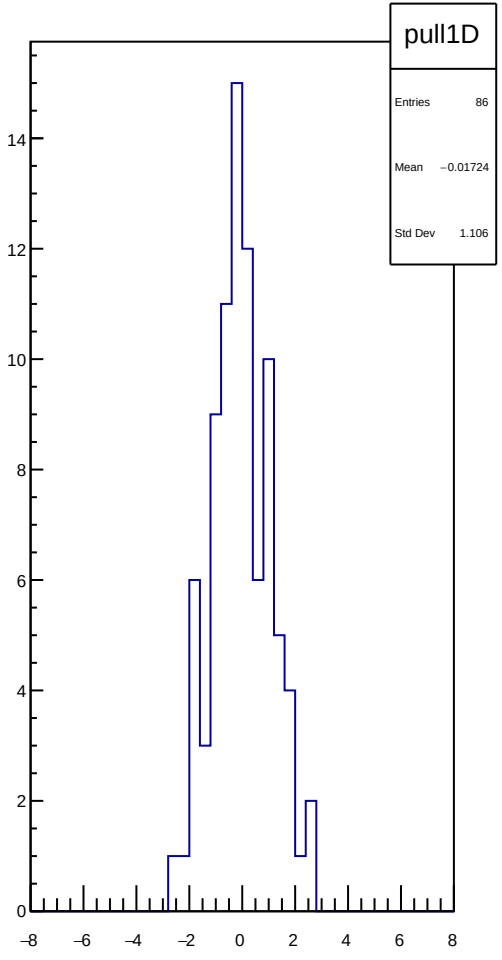

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.437e+06 / 85
p0 1.554e−11 ± 3.128e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

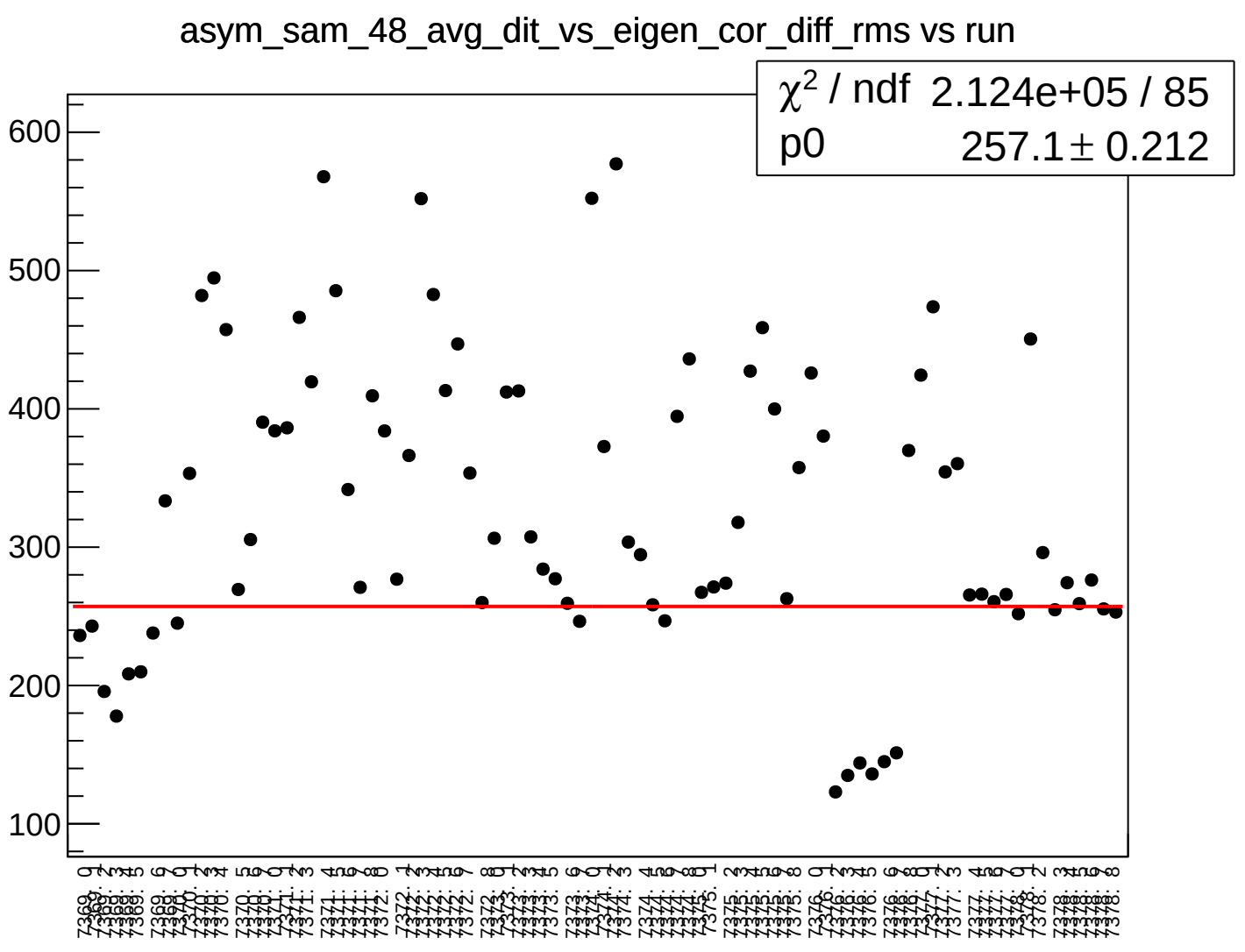

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 85
p0 0.04469 ± 0.2998
pull
Entries 86
Mean 121.3
Std Dev 0

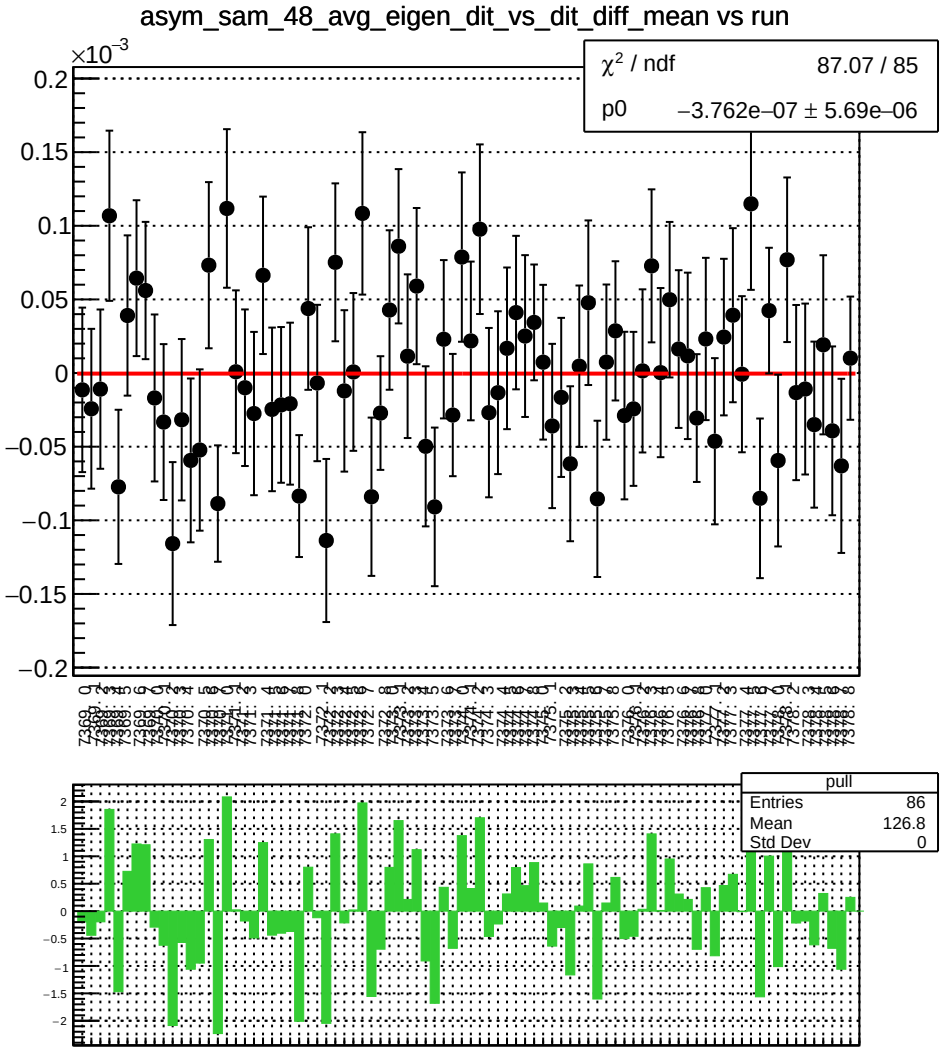

pull1D
Entries 86
Mean −0.01724
Std Dev 1.106

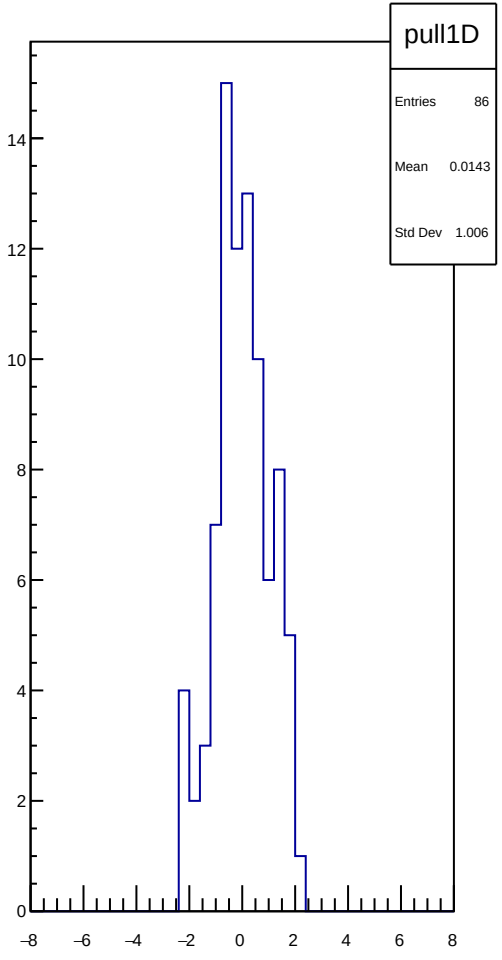

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.124e+05 / 85
p0 257.1 ± 0.212
600
500
400
300
200
100

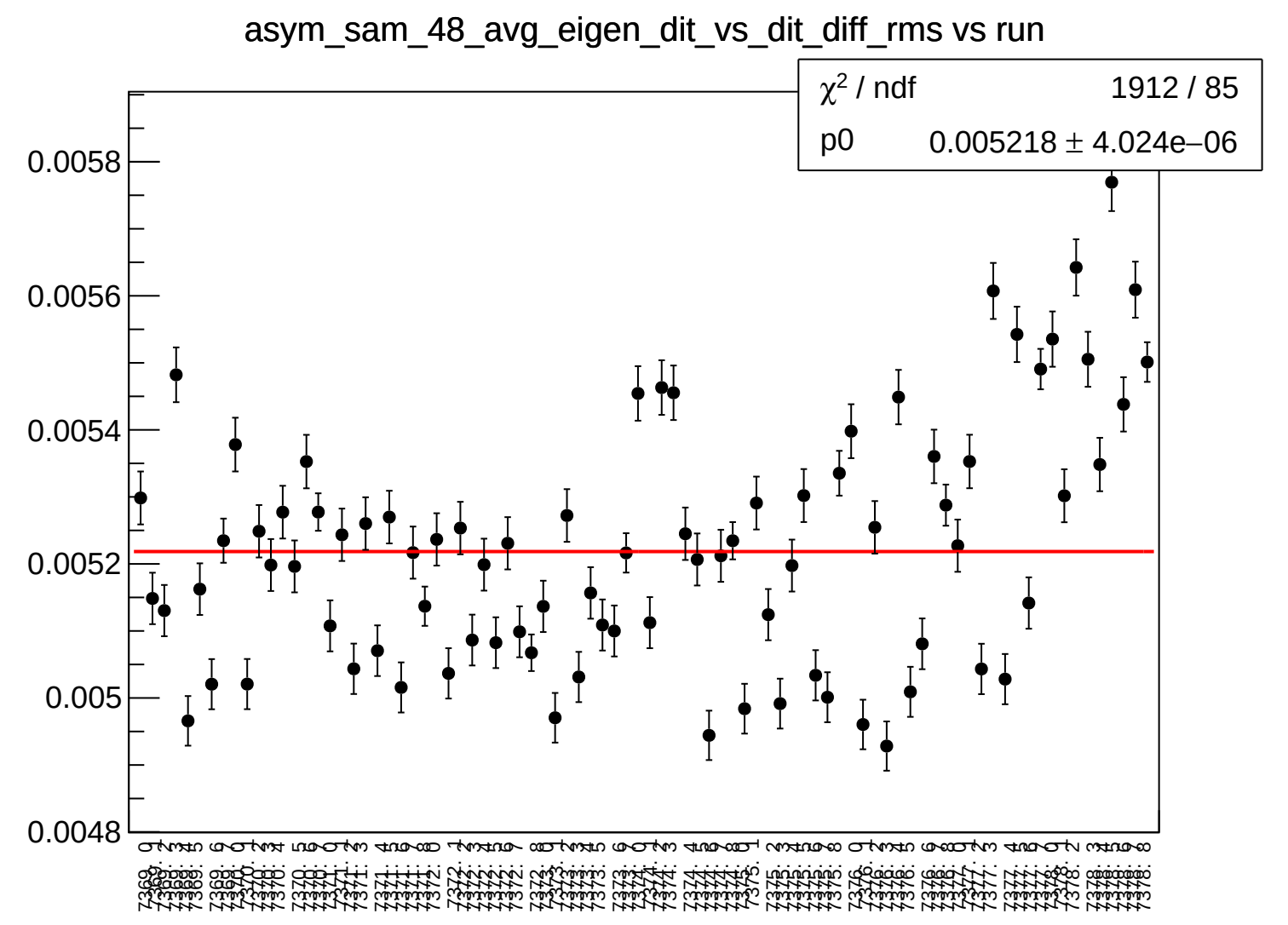

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 85
p0 0.04469 ± 0.2998
pull
Entries 86
Mean 121.3
Std Dev 0

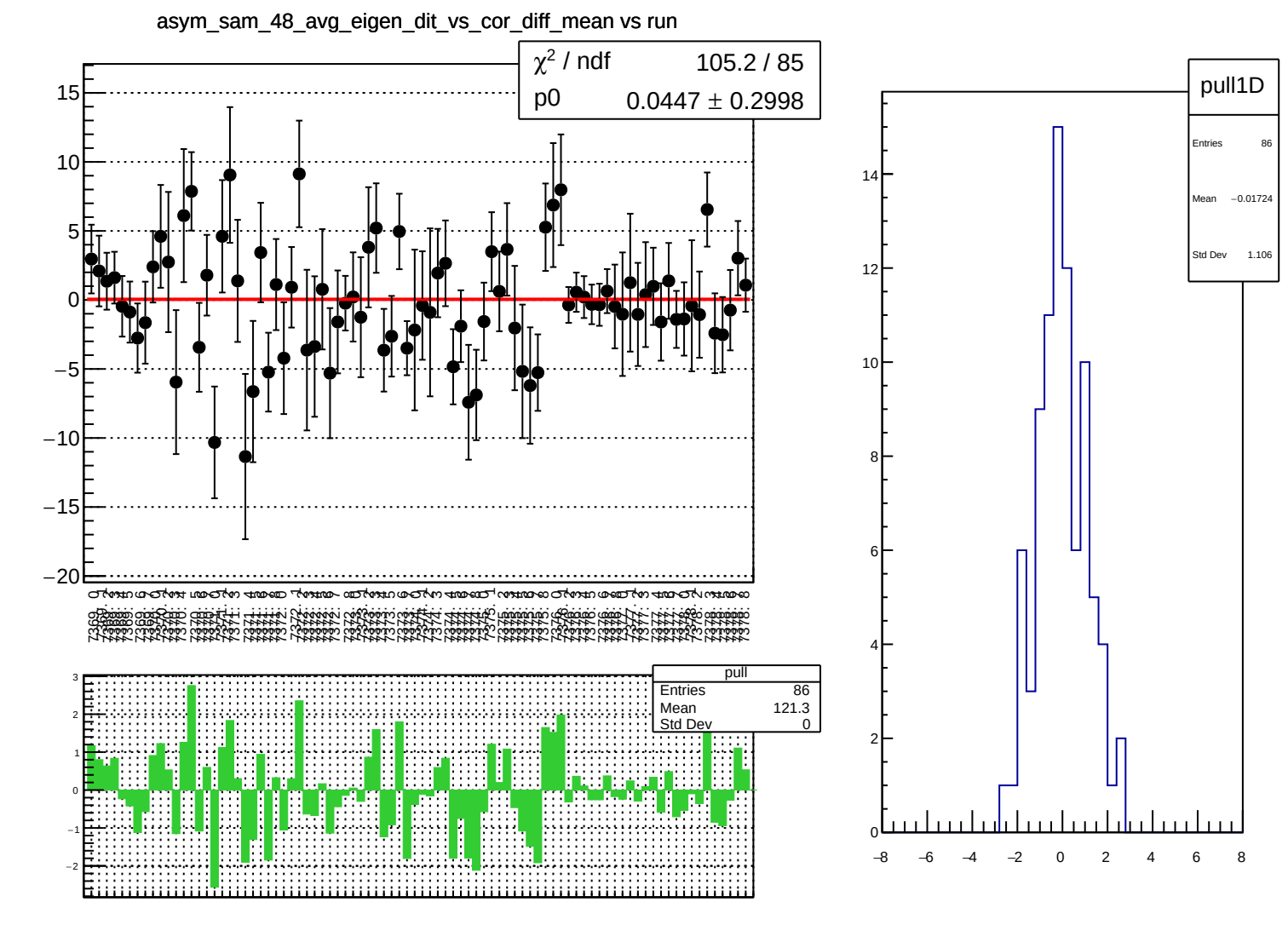

pull1D
Entries 86
Mean −0.01724
Std Dev 1.106

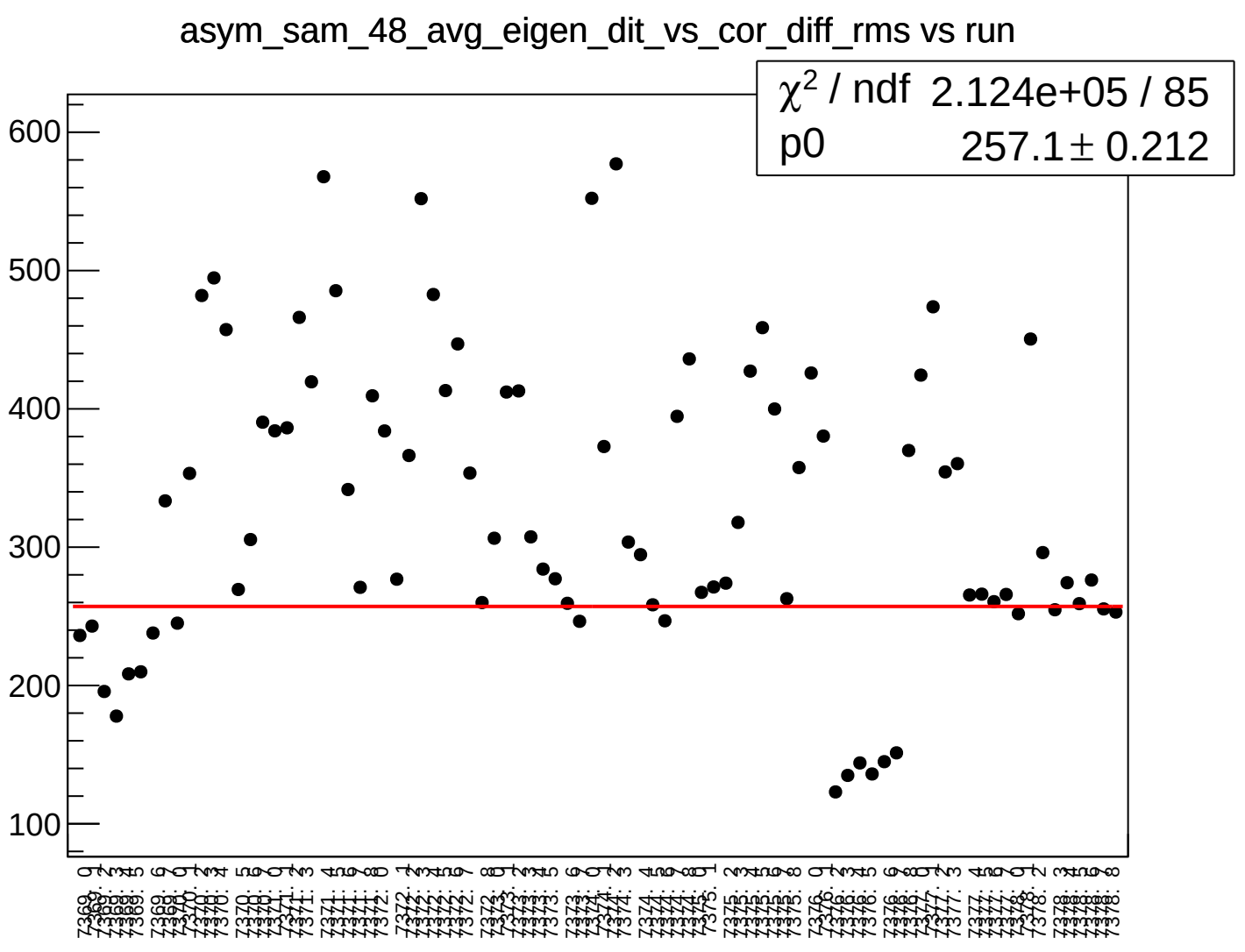

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.124e+05 / 85
p0 257.1 ± 0.212
600
500
400
300
200
100

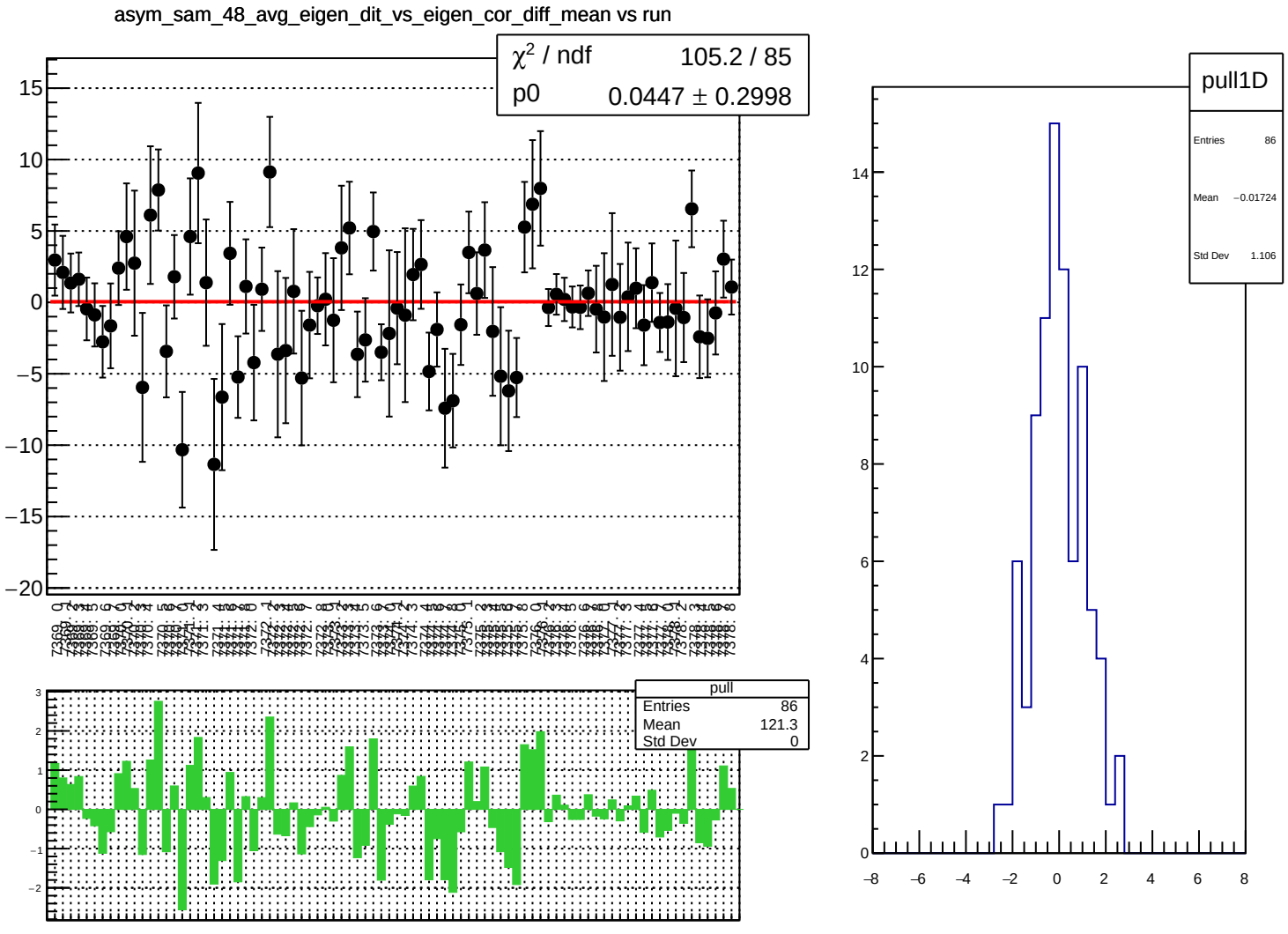

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.07 / 85
p0 −3.762e−07 ± 5.69e−06
pull
Entries 86
Mean 126.8
Std Dev 0

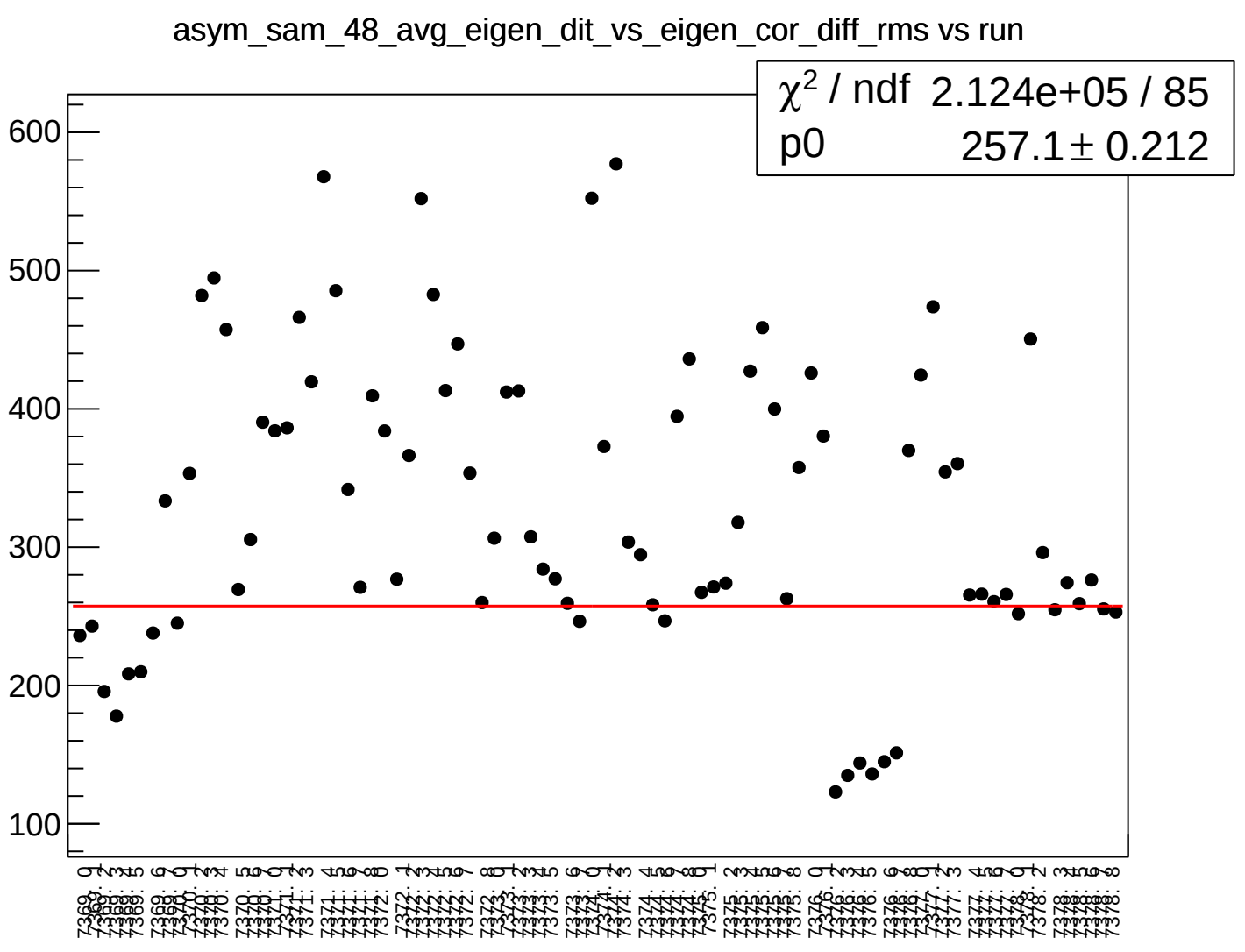

pull1D
Entries 86
Mean 0.0143
Std Dev 1.006

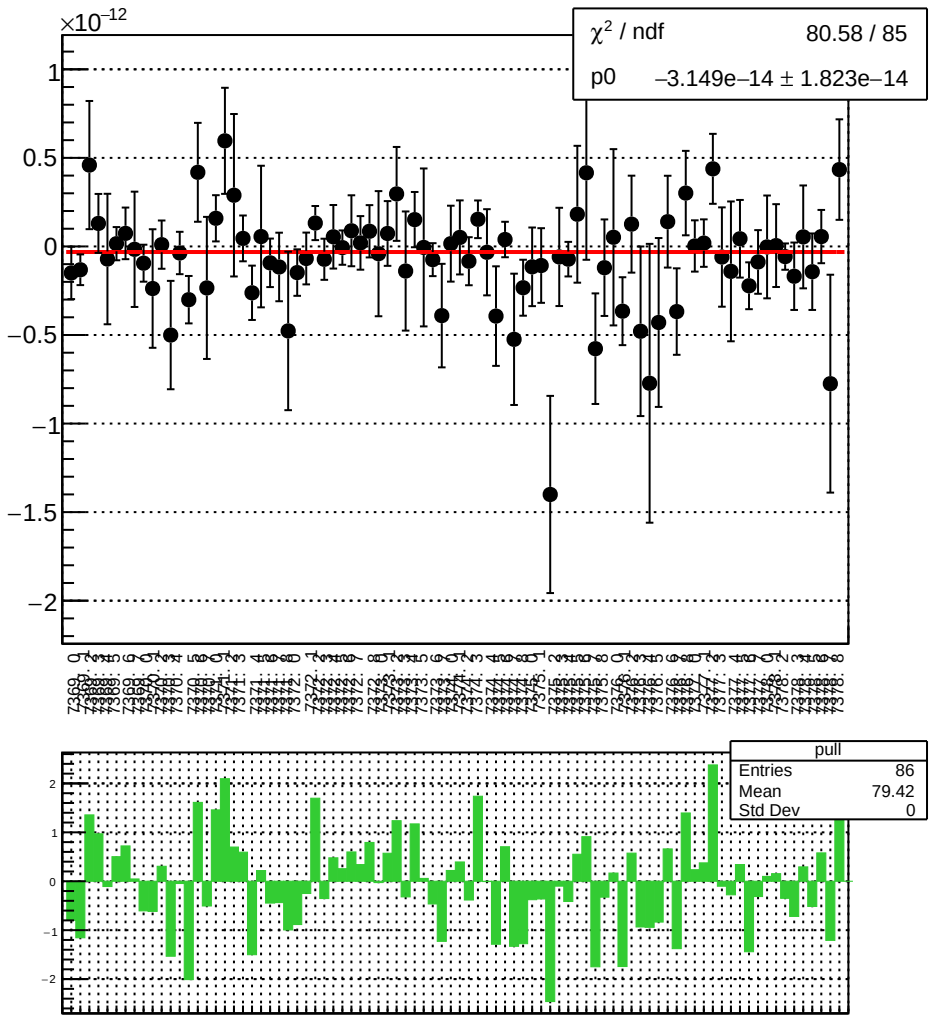

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1912 / 85
p0 0.005218 ± 4.024e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048

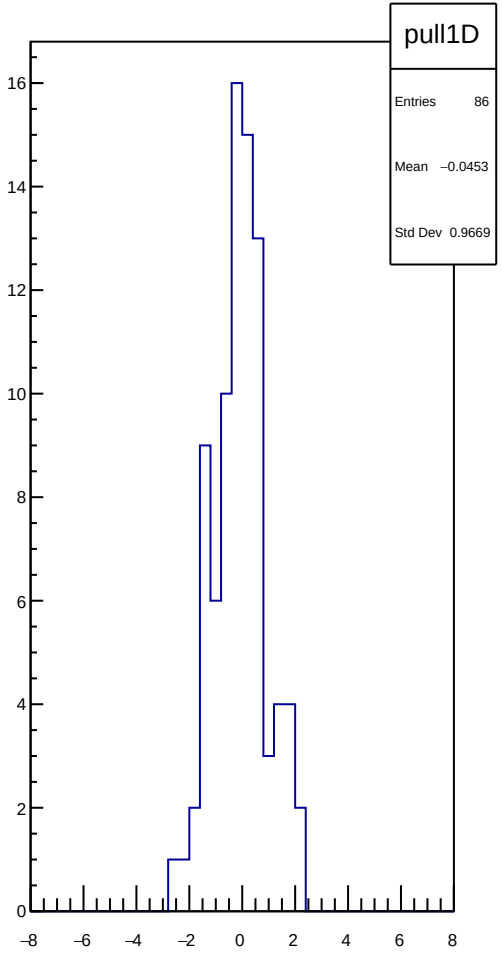

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 85
p0 0.0447 ± 0.2998
pull
Entries 86
Mean 121.3
Std Dev 0
pull1D
Entries 86
Mean −0.01724
Std Dev 1.106

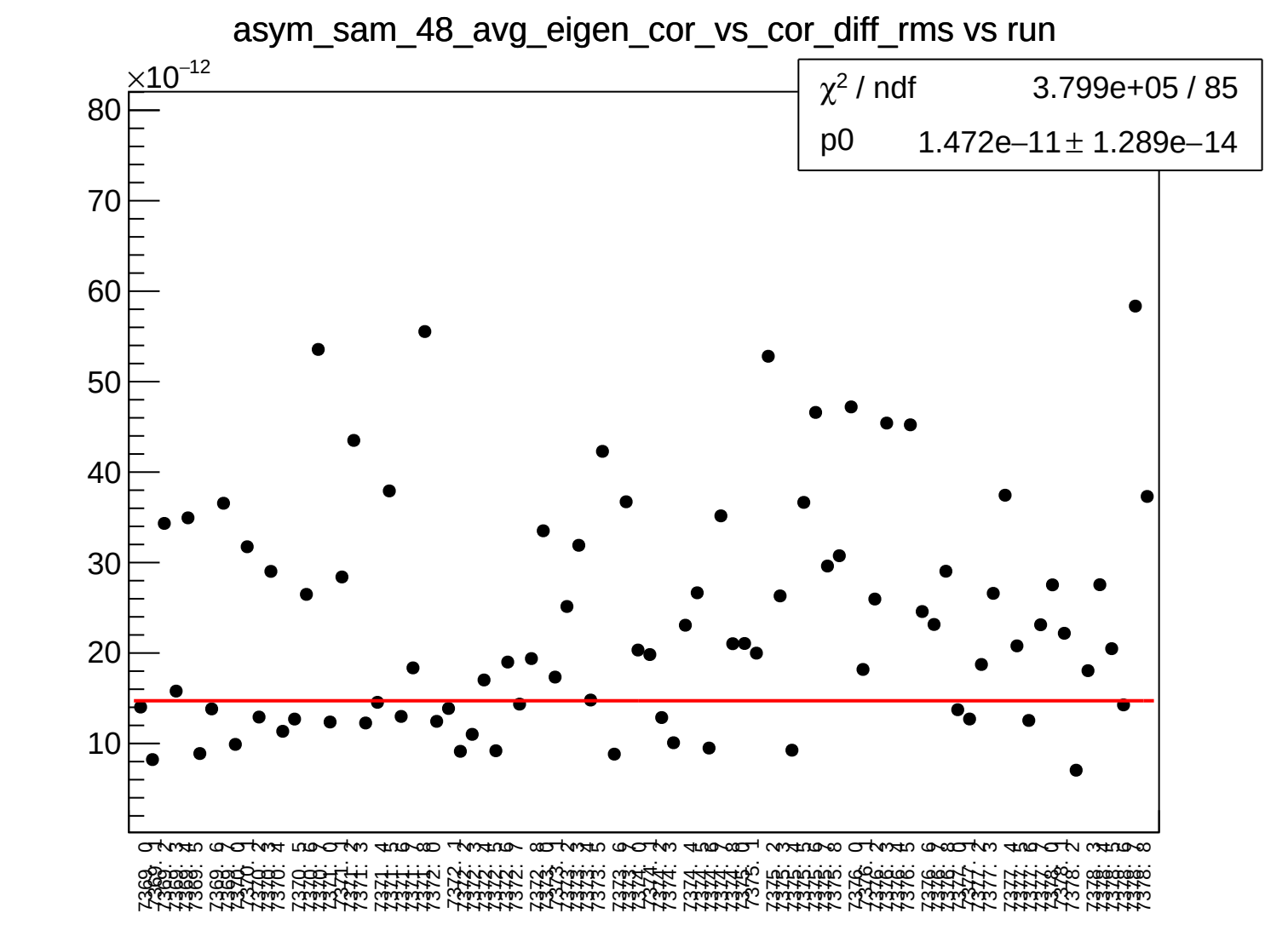

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.124e+05 / 85
p0 257.1 ± 0.212
600
500
400
300
200
100

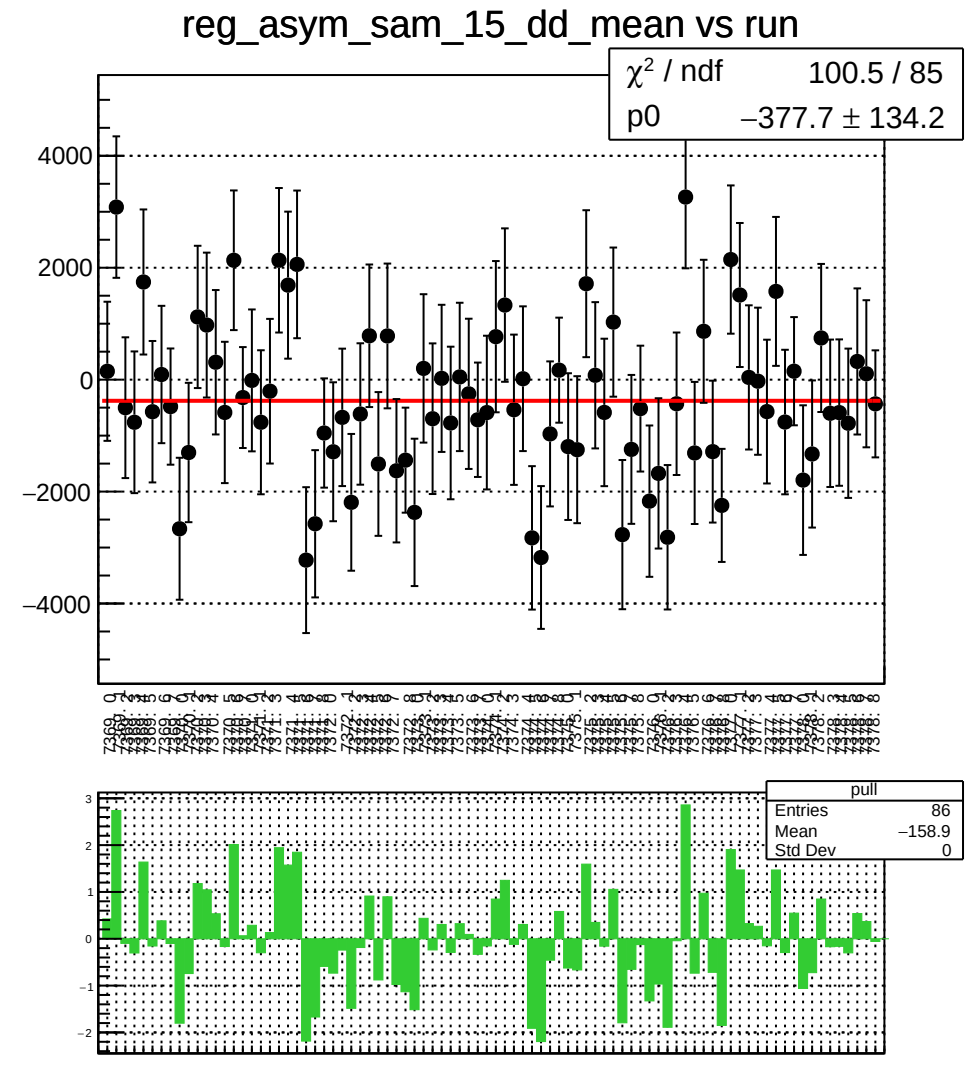

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 85
p0 0.0447 ± 0.2998
pull
Entries 86
Mean 121.3
Std Dev 0
pull1D
Entries 86
Mean −0.01724
Std Dev 1.106

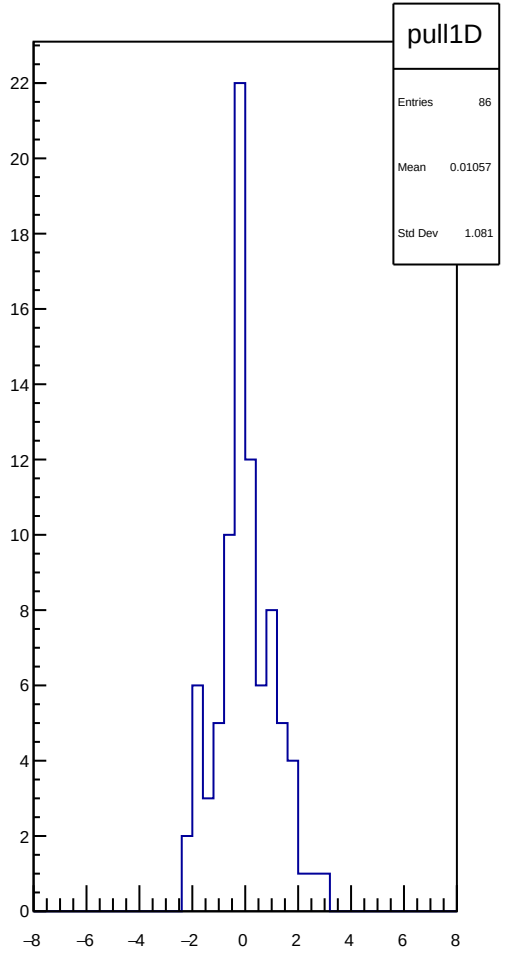

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.124e+05 / 85
p0 257.1 ± 0.212
600
500
400
300
200
100

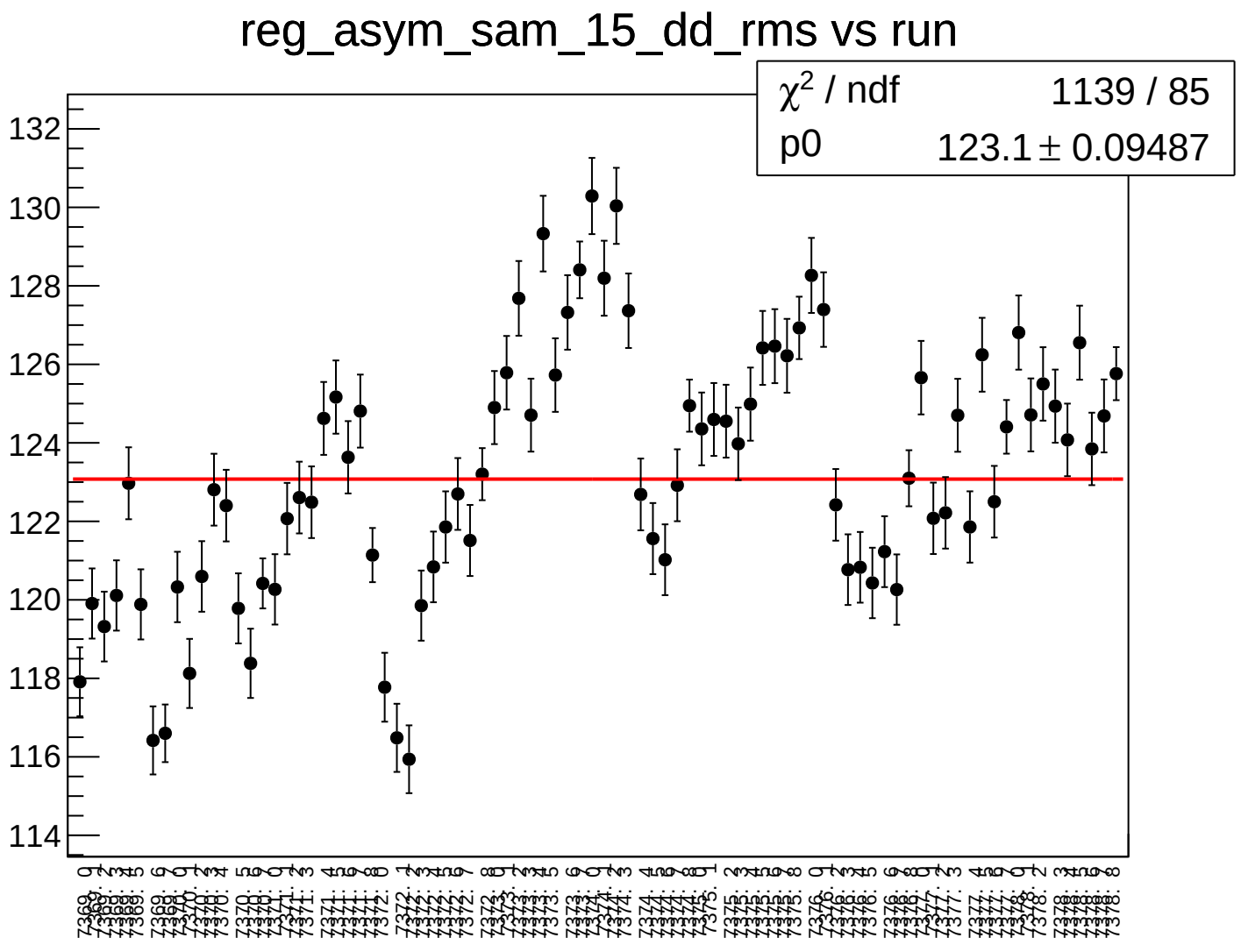

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.58 / 85
p0 −3.149e−14 ± 1.823e−14
pull
Entries 86
Mean 79.42
Std Dev 0

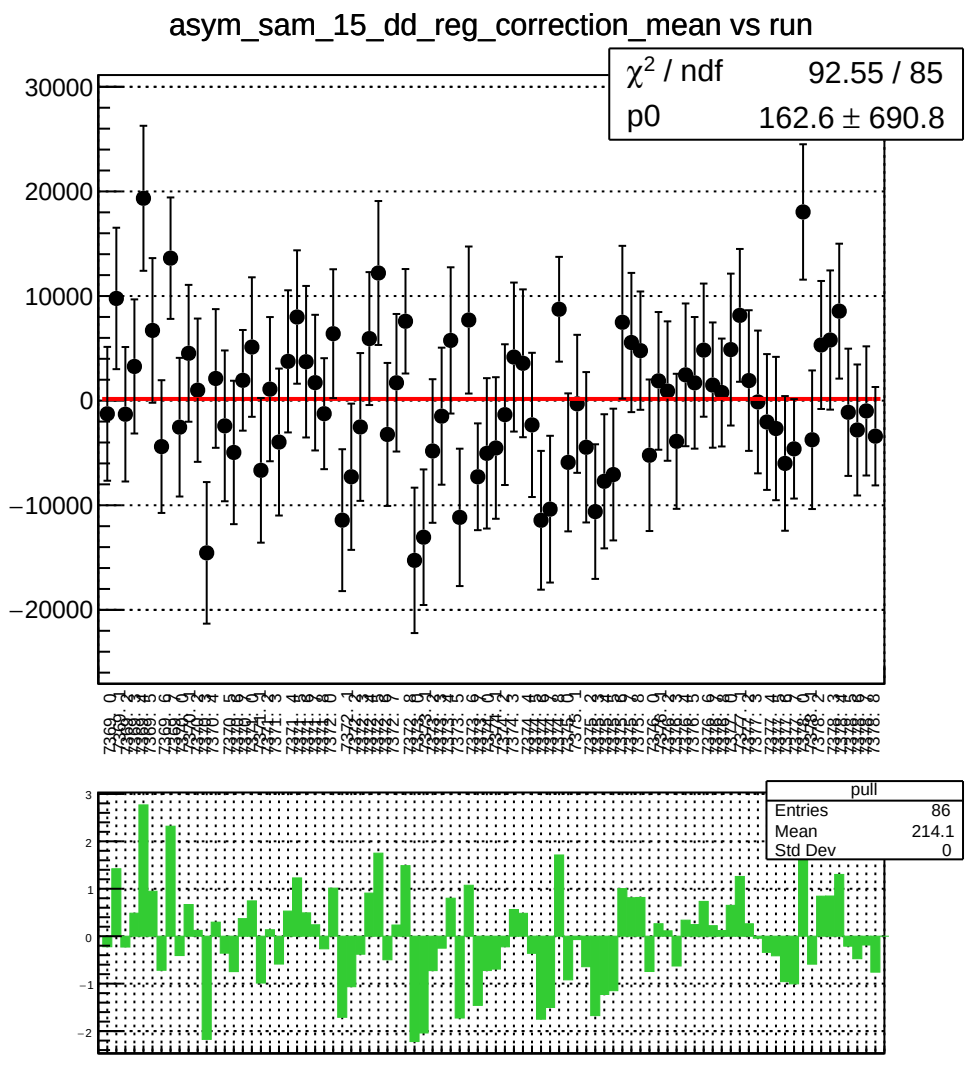

pull1D
Entries 86
Mean −0.0453
Std Dev 0.9669

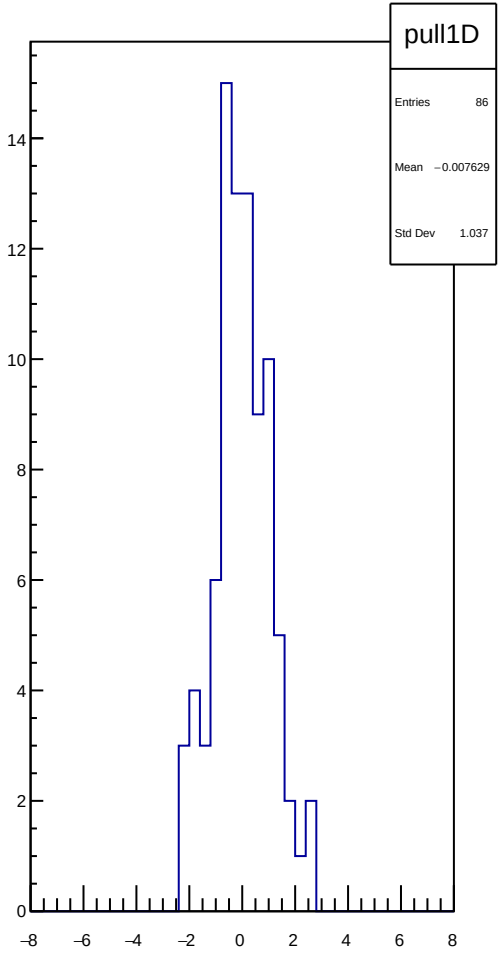

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.799e+05 / 85
p0 1.472e−11 ± 1.289e−14
80
70
60
50
40
30
20
10

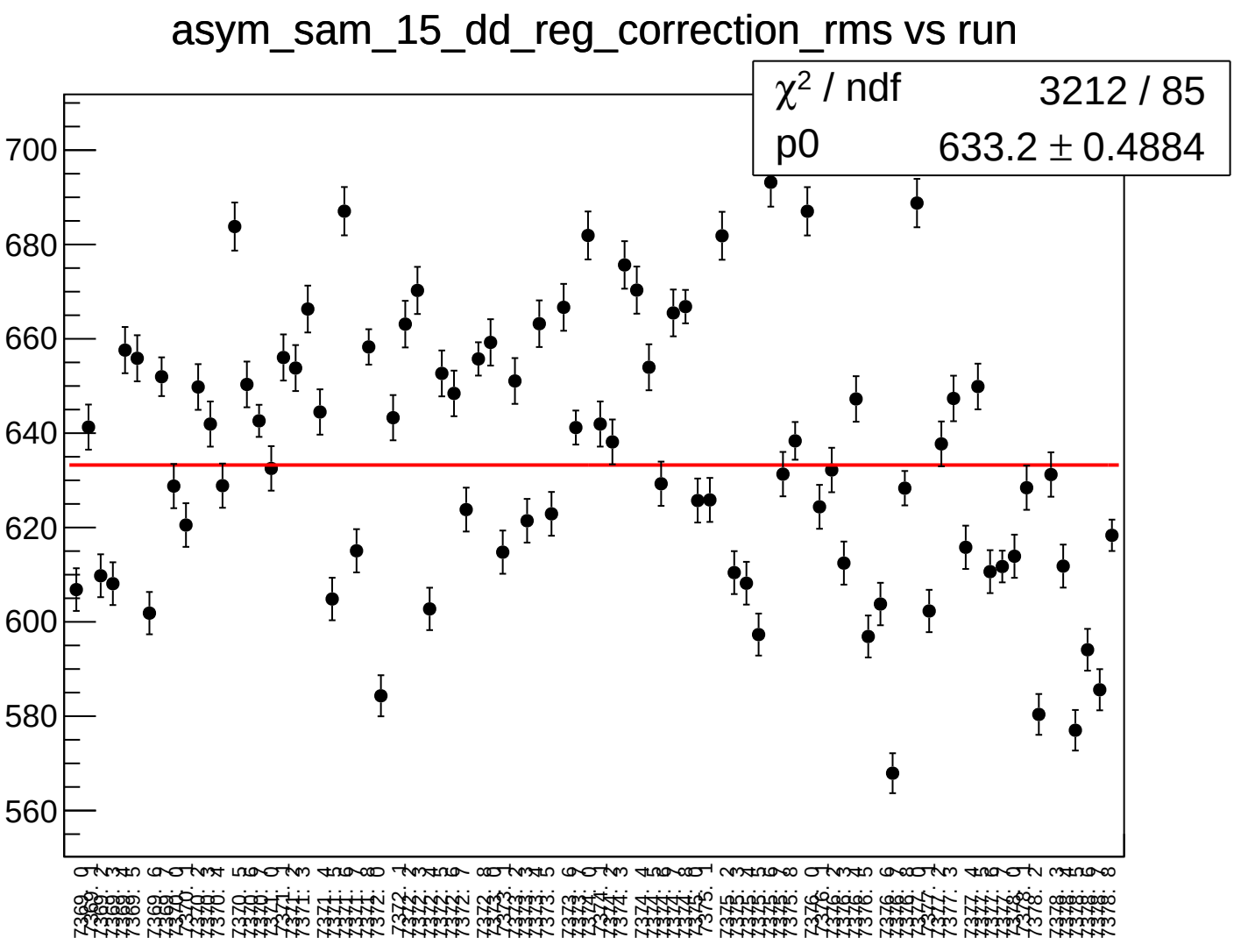

reg_asym_sam_15_dd_mean vs run
χ² / ndf 100.5 / 85
p0 −377.7 ± 134.2
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −158.9
Std Dev 0
3
2
1
0
−1
−2

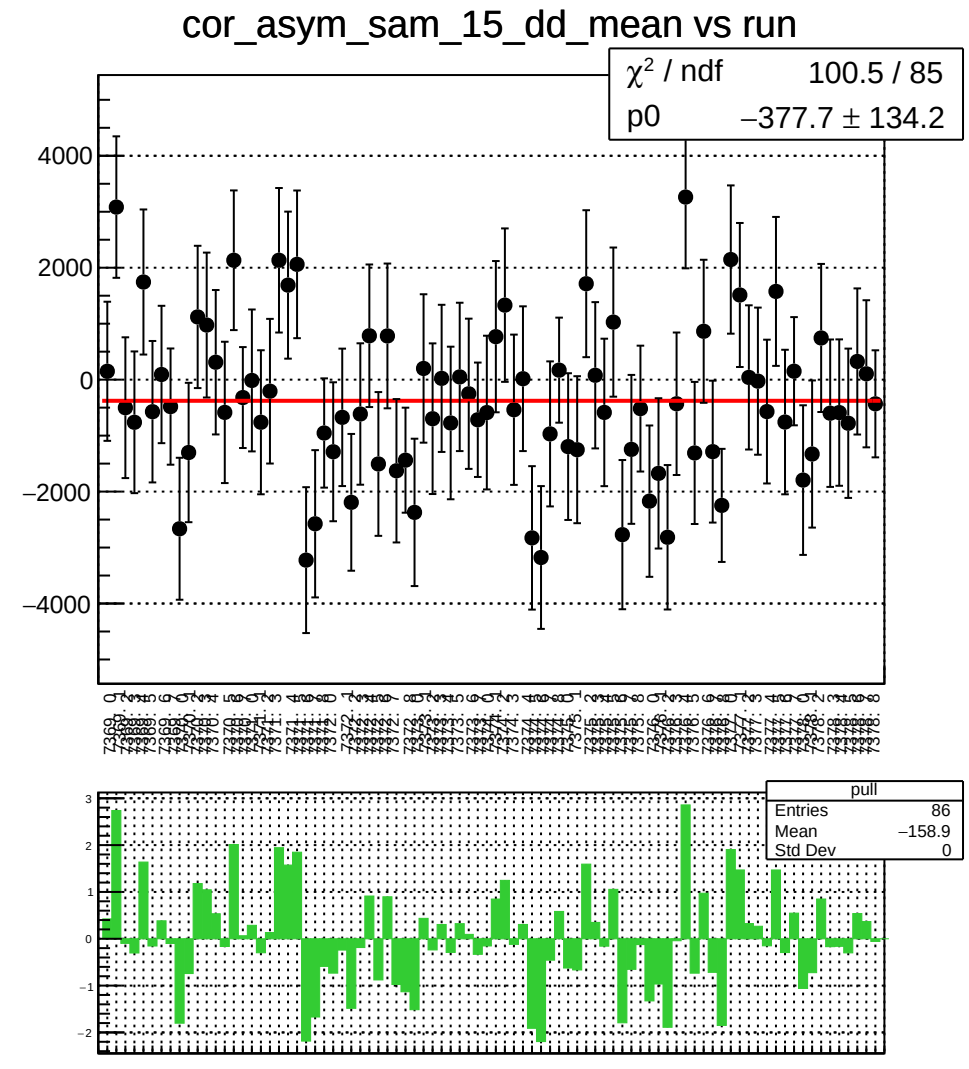

pull1D
Entries 86
Mean 0.01057
Std Dev 1.081
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

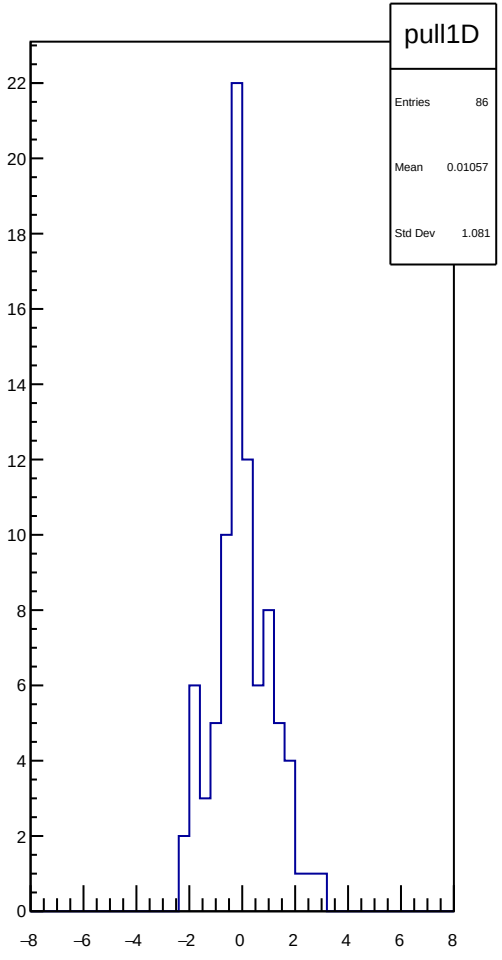

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 1139 / 85
p0 123.1 ± 0.09487
132
130
128
126
124
122
120
118
116
114

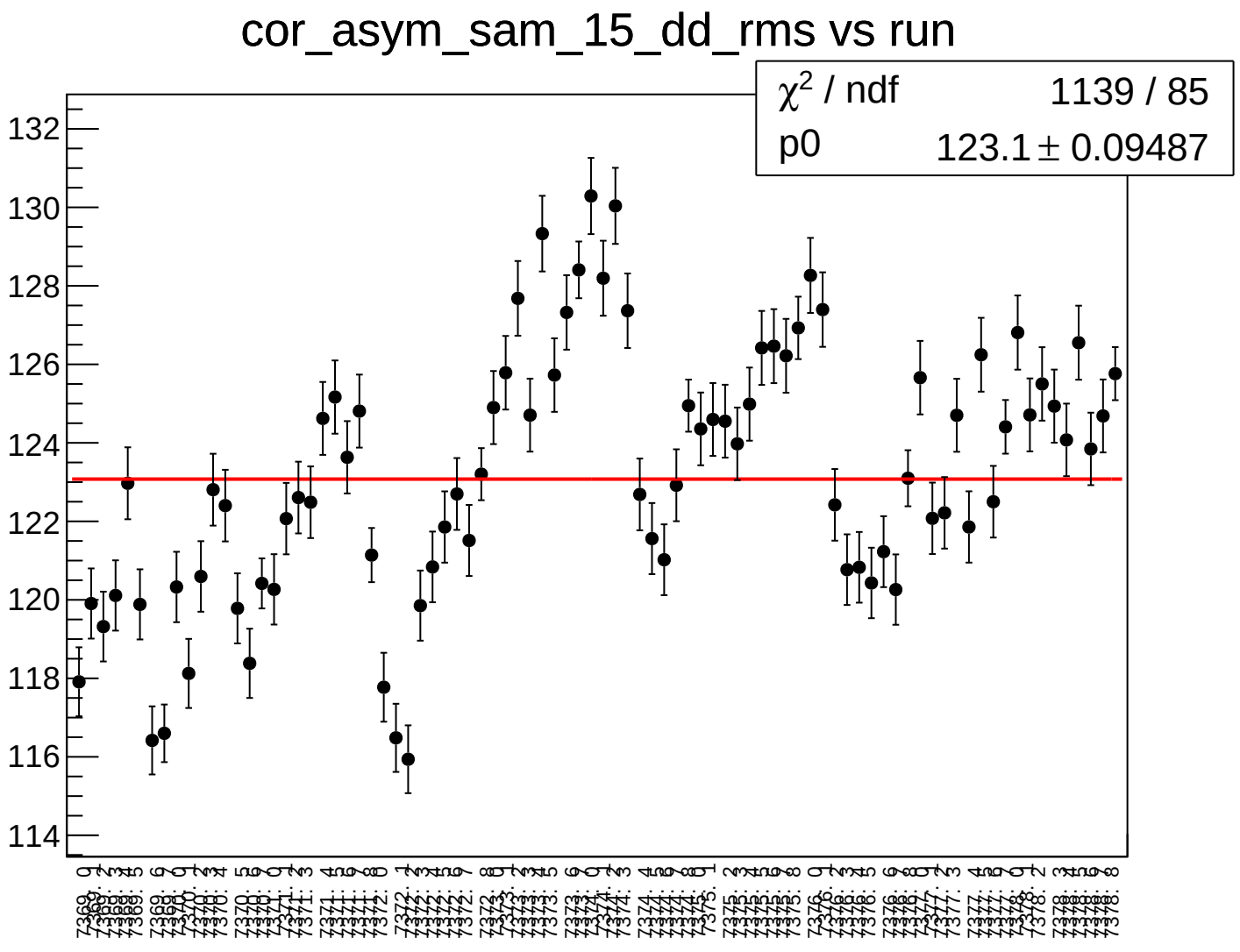

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 92.55 / 85
p0 162.6 ± 690.8
pull
Entries 86
Mean 214.1
Std Dev 0

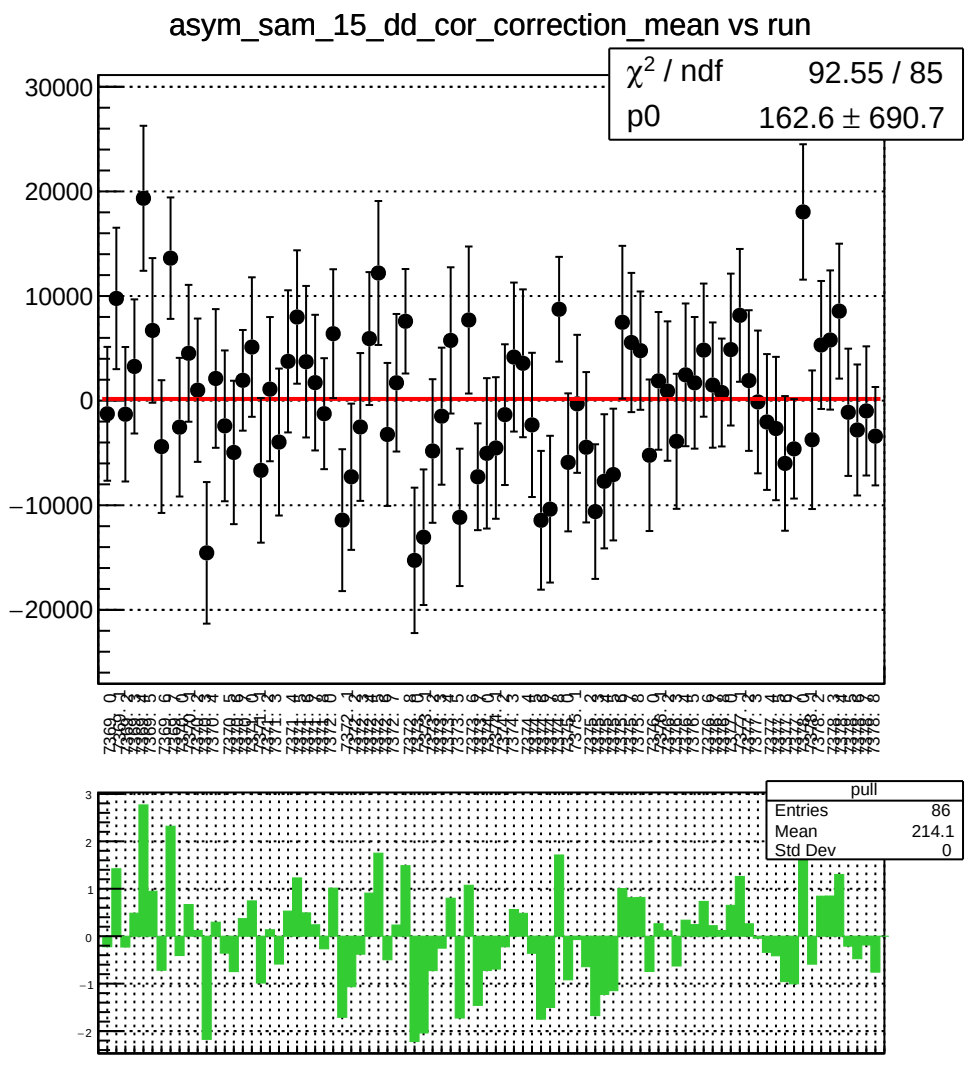

pull1D
Entries 86
Mean −0.007629
Std Dev 1.037

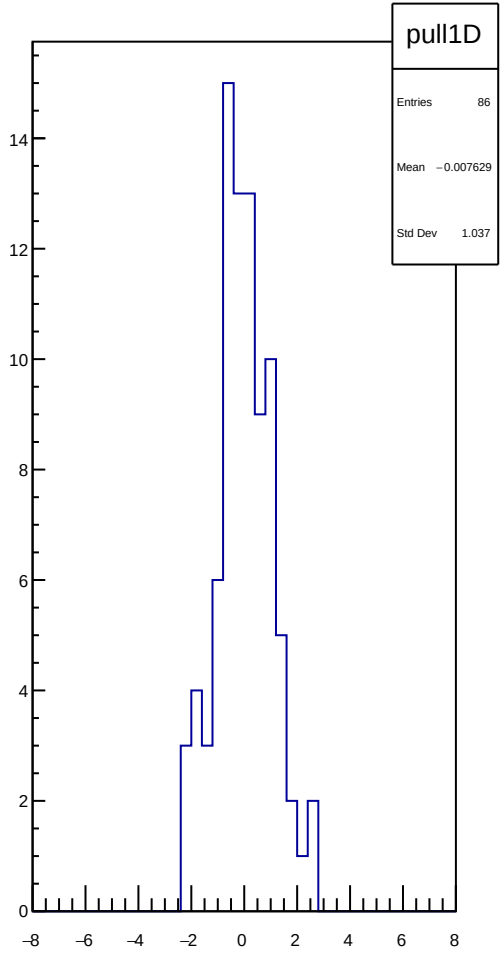

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 3212 / 85
p0 633.2 ± 0.4884
700
680
660
640
620
600
580
560

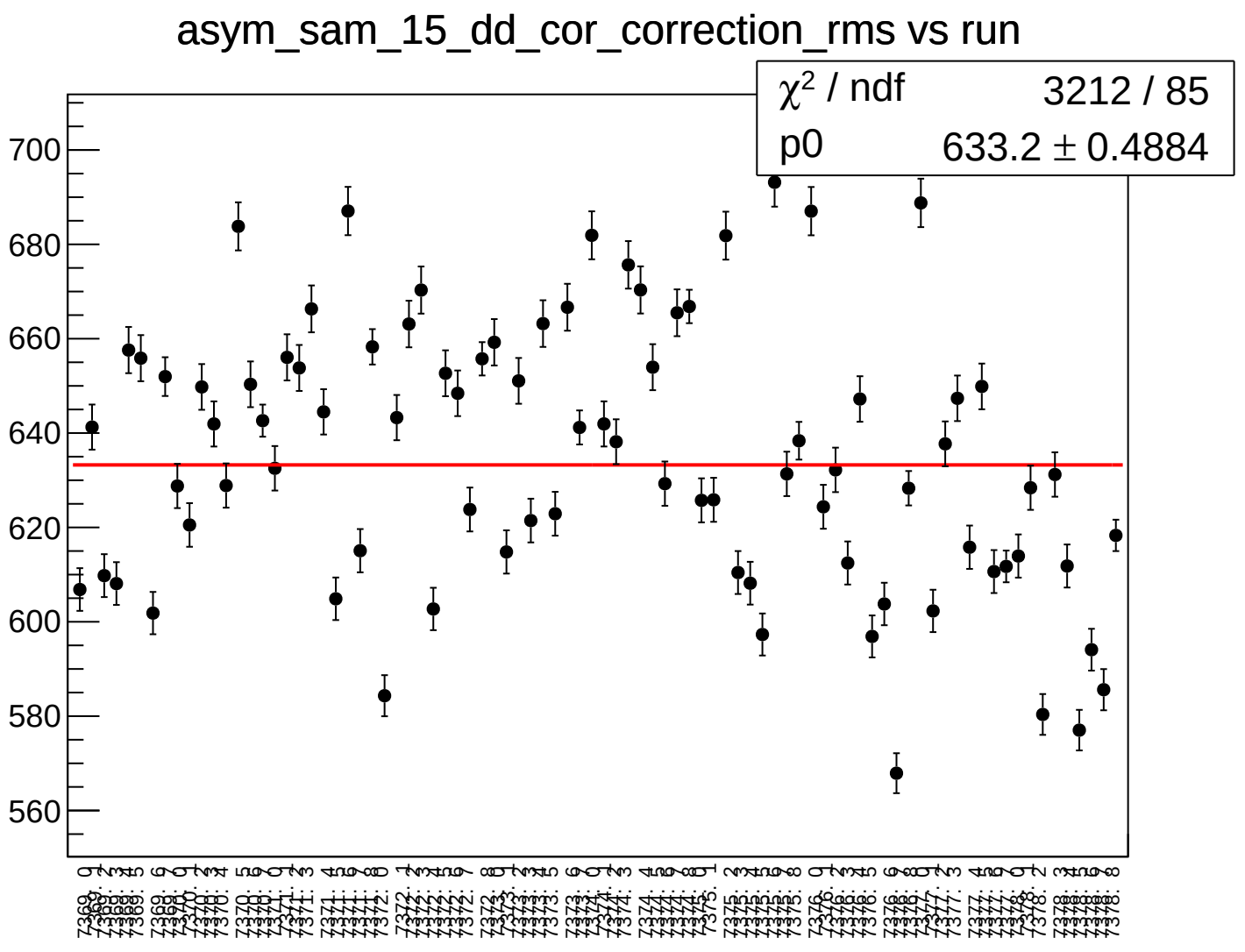

cor_asym_sam_15_dd_mean vs run
χ² / ndf 100.5 / 85
p0 −377.7 ± 134.2
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −158.9
Std Dev 0
3
2
1
0
−1
−2

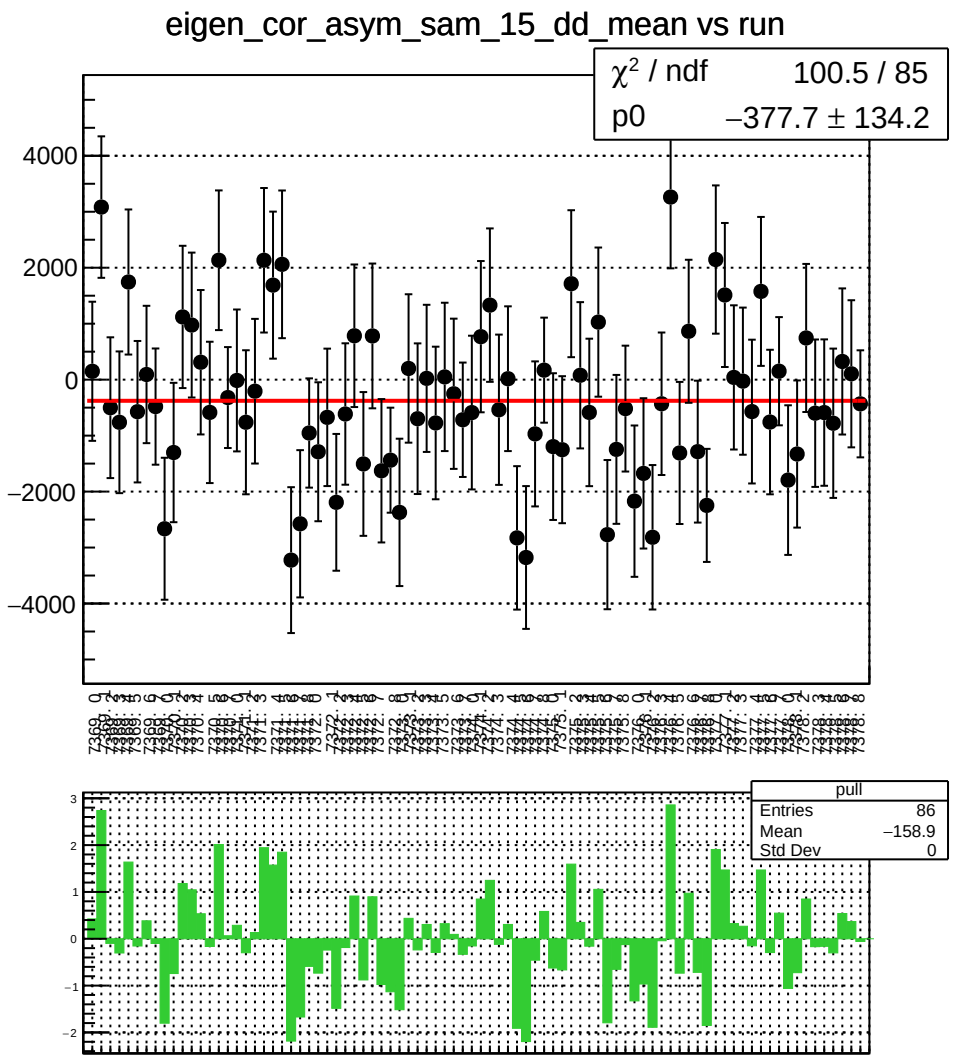

pull1D
Entries 86
Mean 0.01057
Std Dev 1.081
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

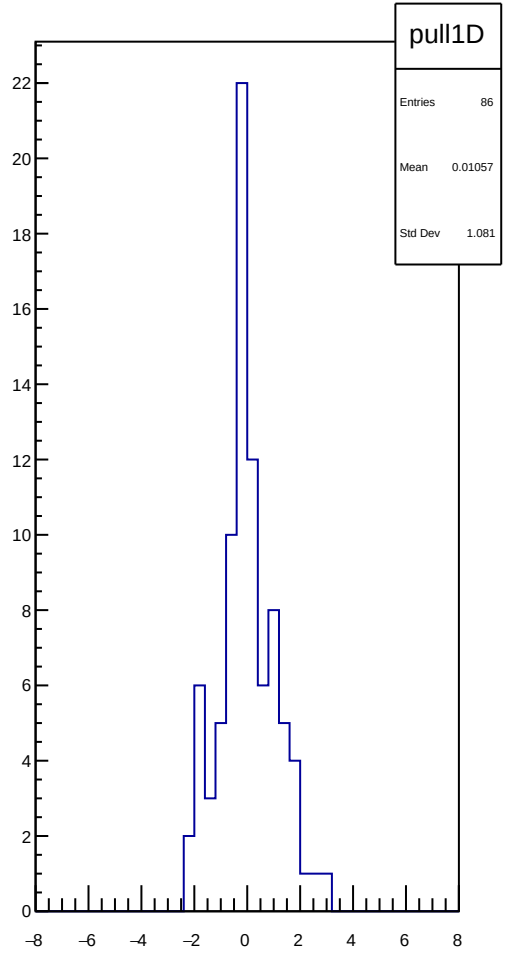

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 1139 / 85
p0 123.1 ± 0.09487
132
130
128
126
124
122
120
118
116
114

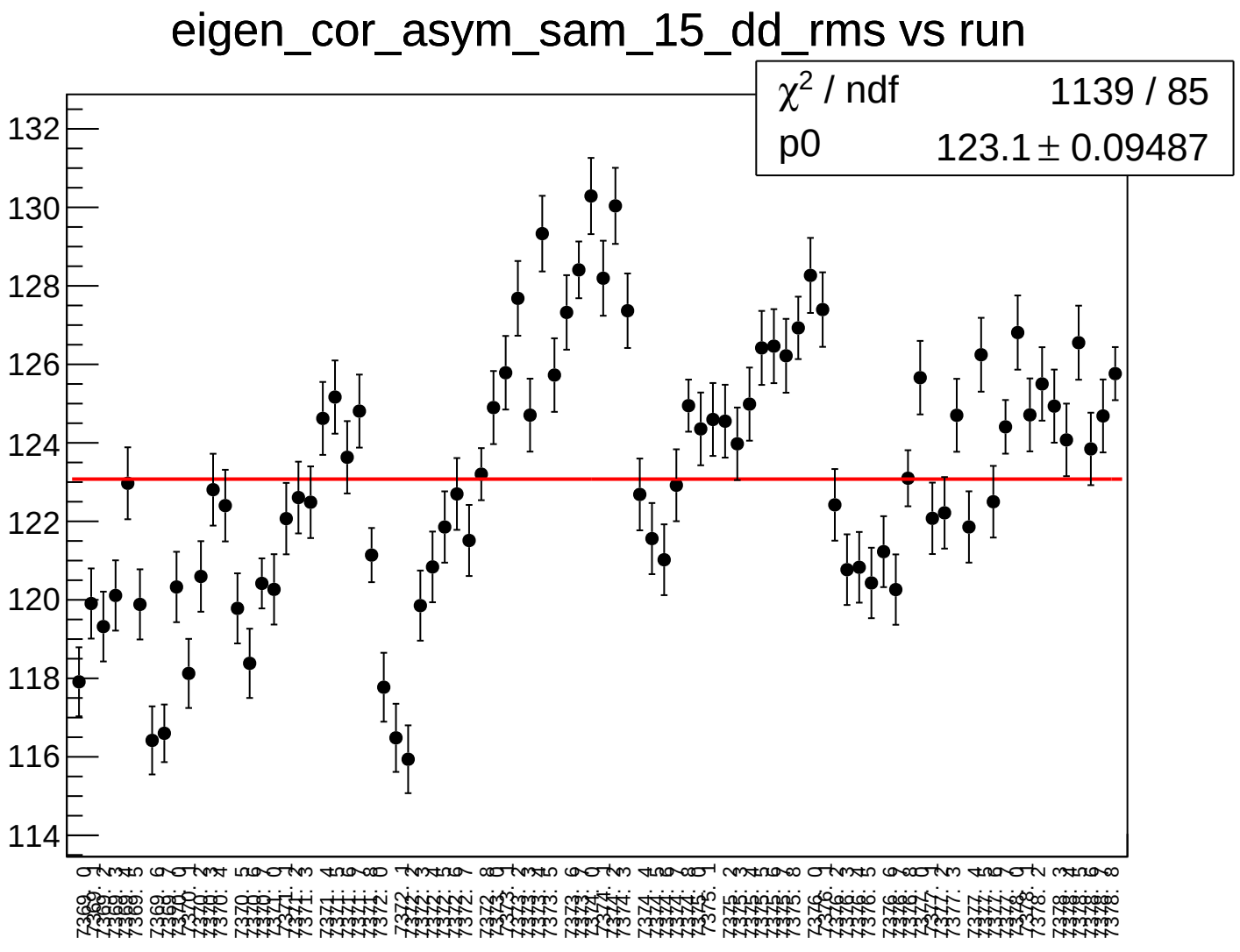

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 92.55 / 85
p0 162.6 ± 690.7
pull
Entries 86
Mean 214.1
Std Dev 0

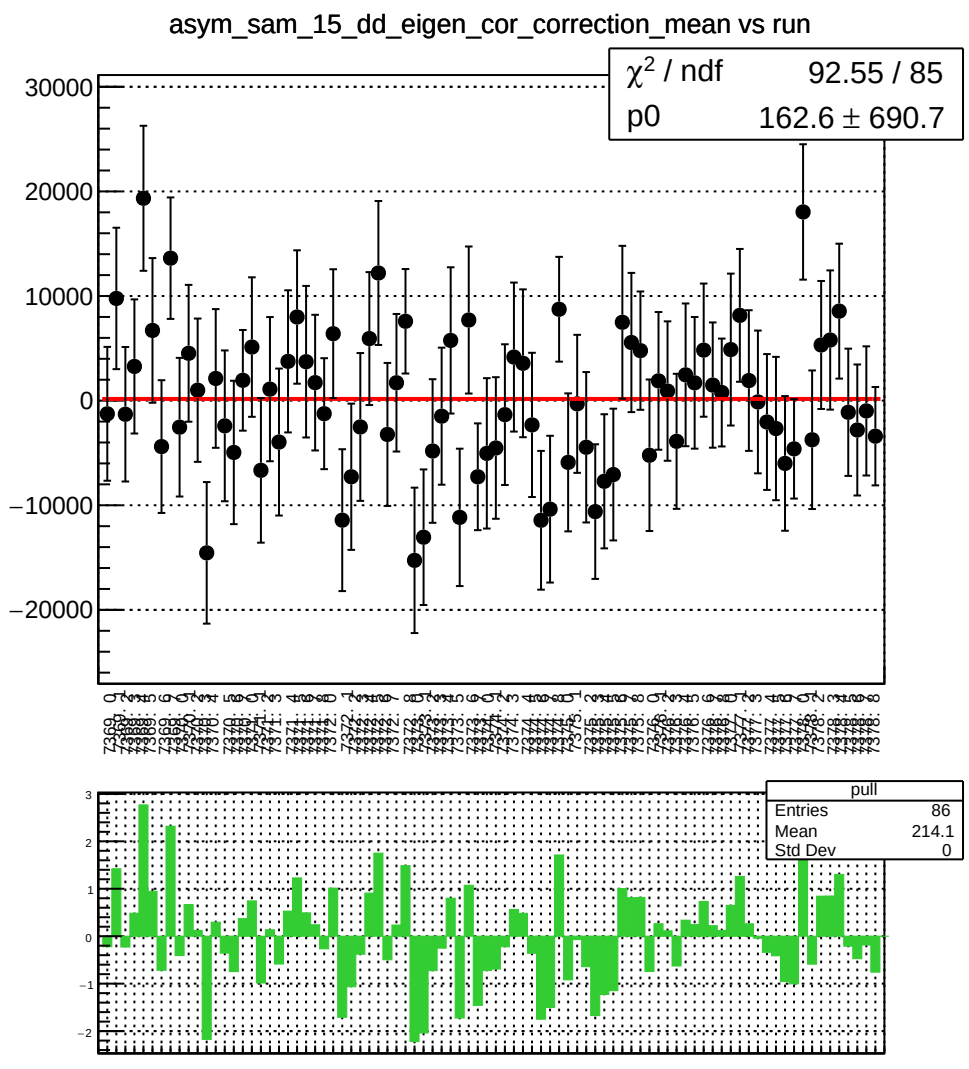

pull1D
Entries 86
Mean −0.007629
Std Dev 1.037

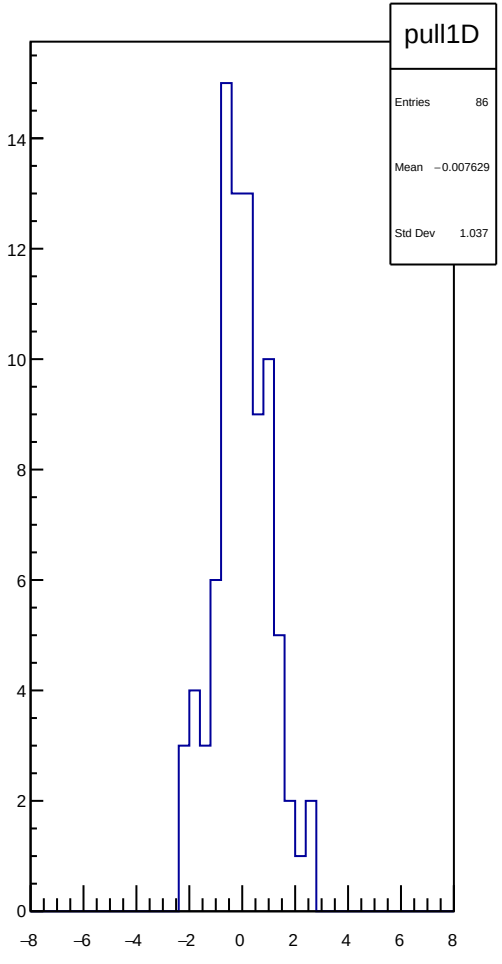

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 3212 / 85
p0 633.2 ± 0.4884
700
680
660
640
620
600
580
560

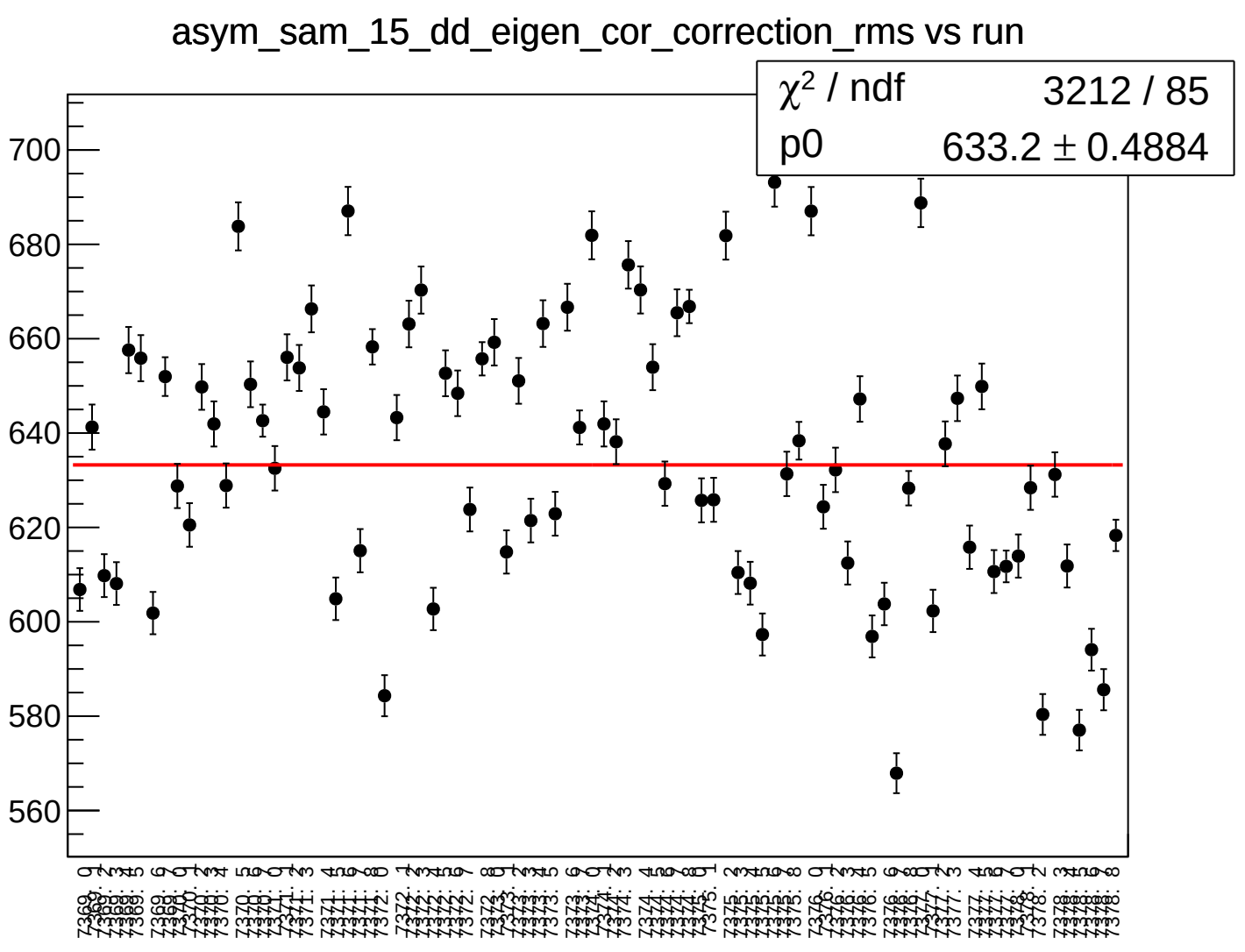

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 100.5 / 85
p0 −377.7 ± 134.2
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −158.9
Std Dev 0
3
2
1
0
−1
−2

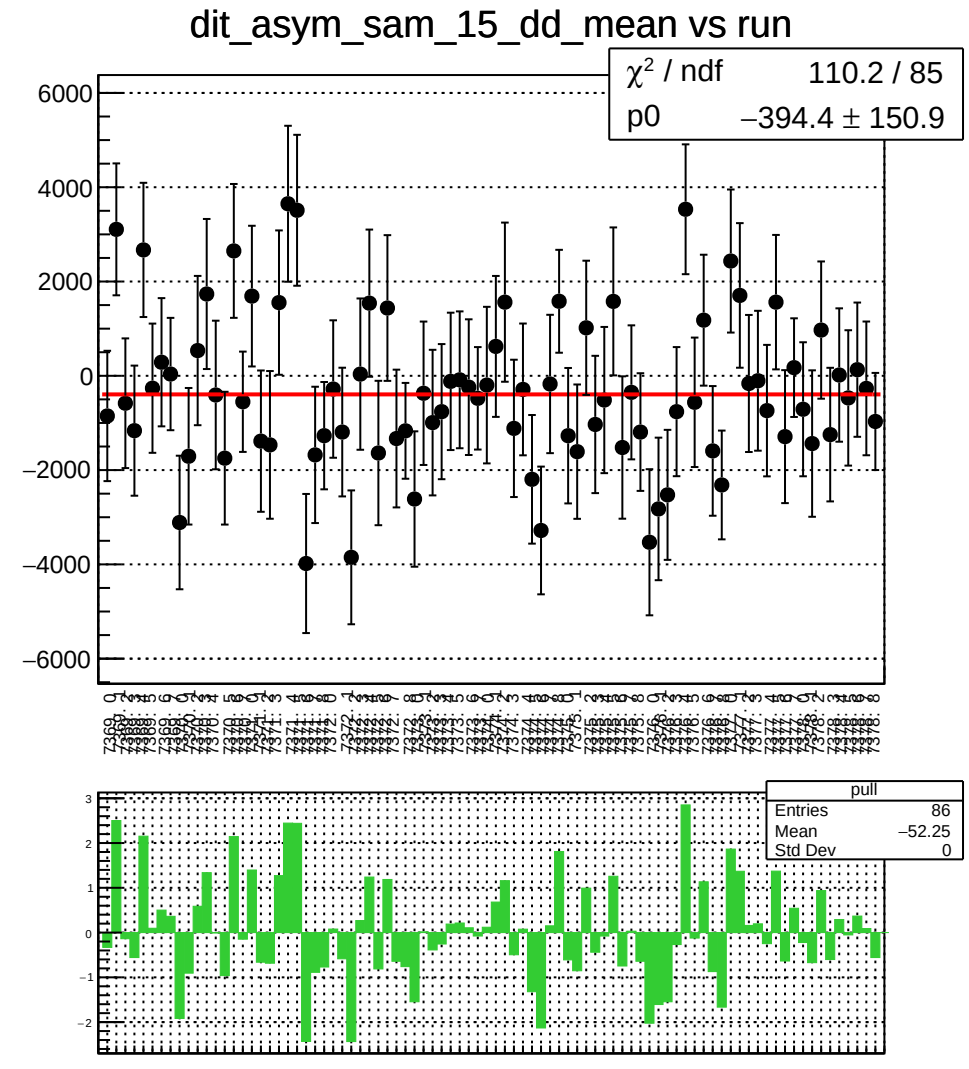

pull1D
Entries 86
Mean 0.01057
Std Dev 1.081
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

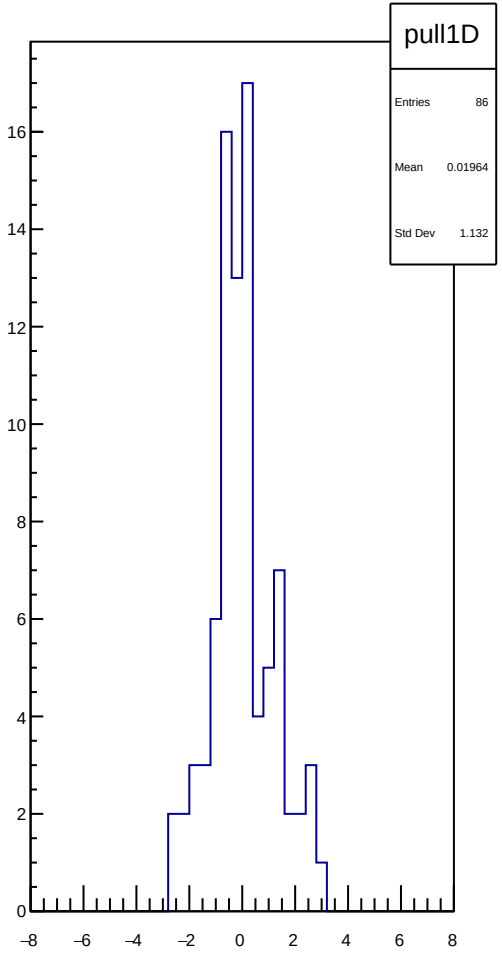

eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 1139 / 85
p0 123.1 ± 0.09487
132
130
128
126
124
122
120
118
116
114

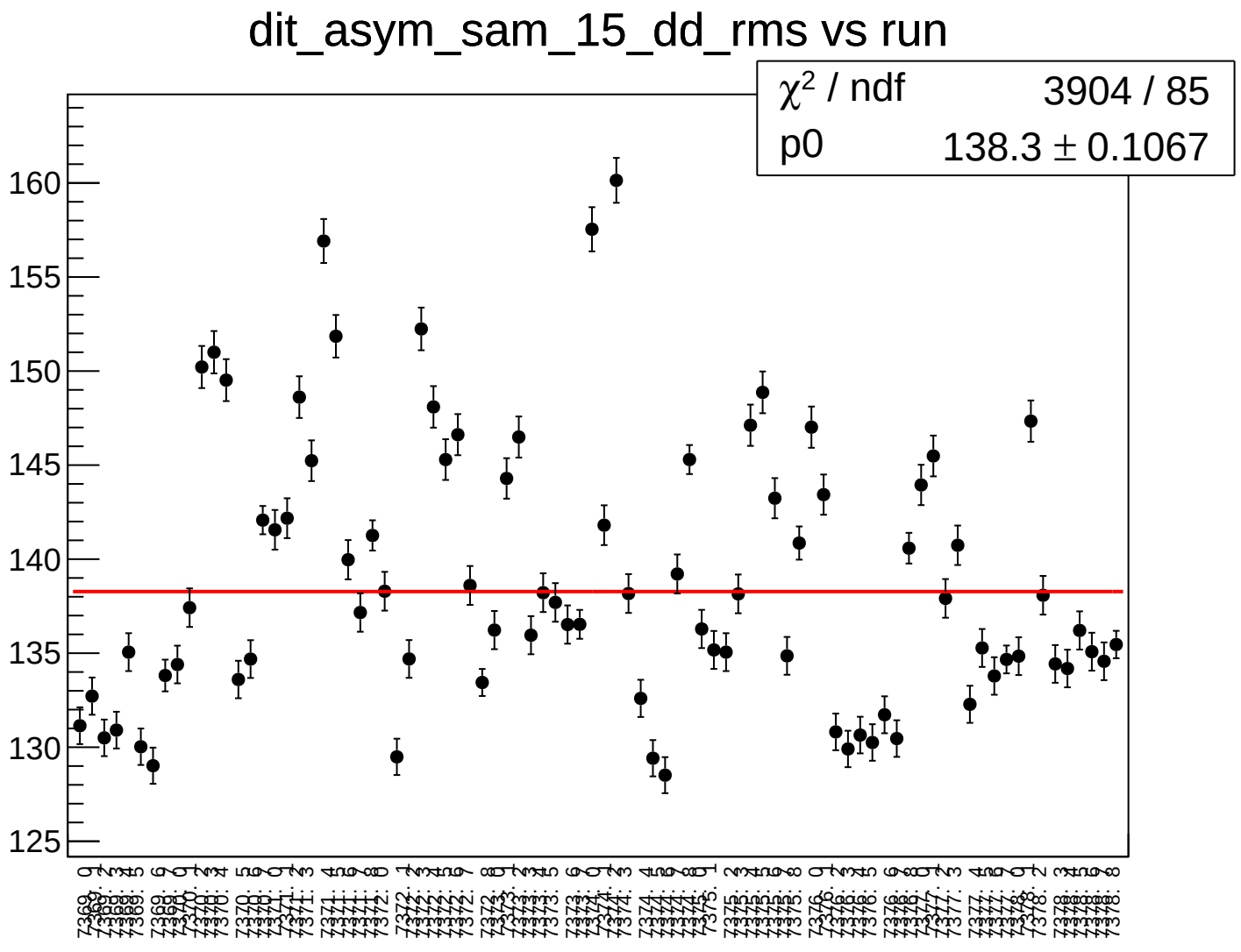

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.55 / 85
p0 162.6 ± 690.7
pull
Entries 86
Mean 214.1
Std Dev 0

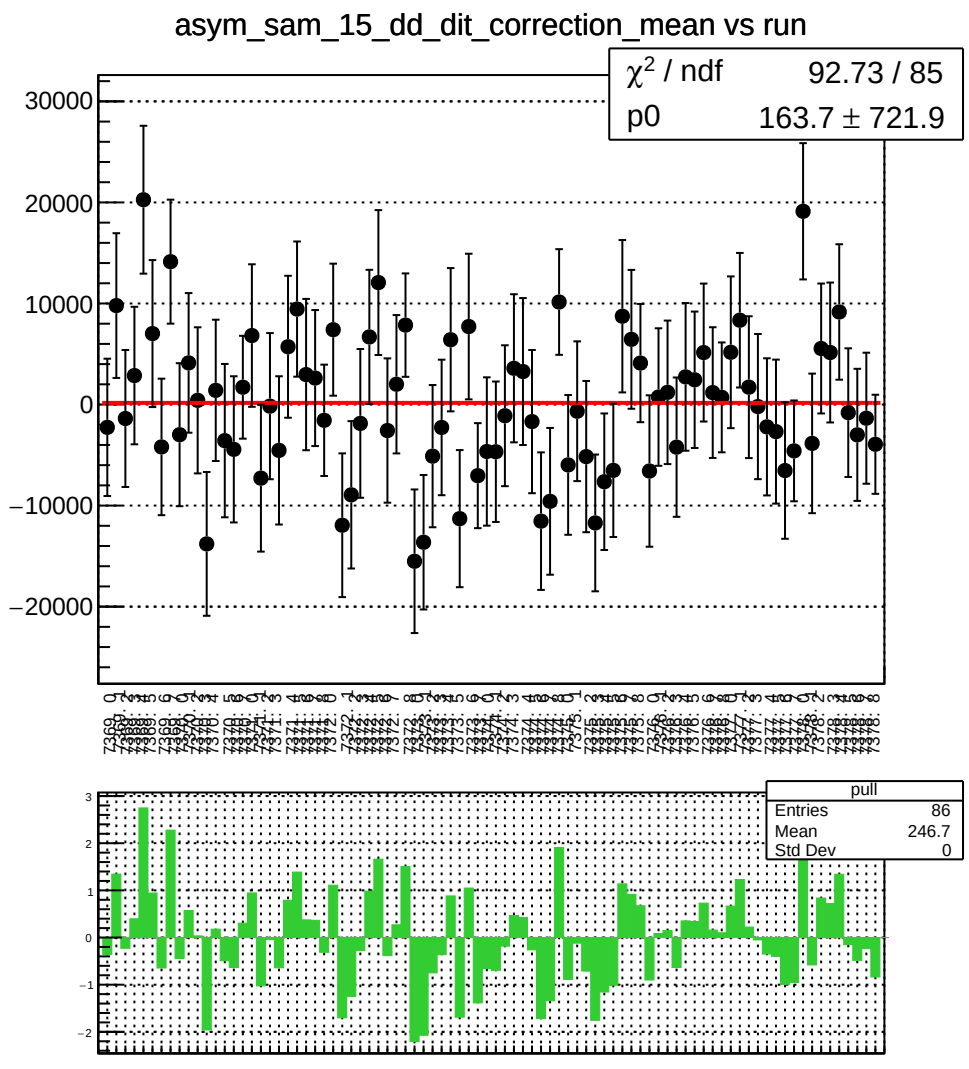

pull1D
Entries 86
Mean −0.007629
Std Dev 1.037

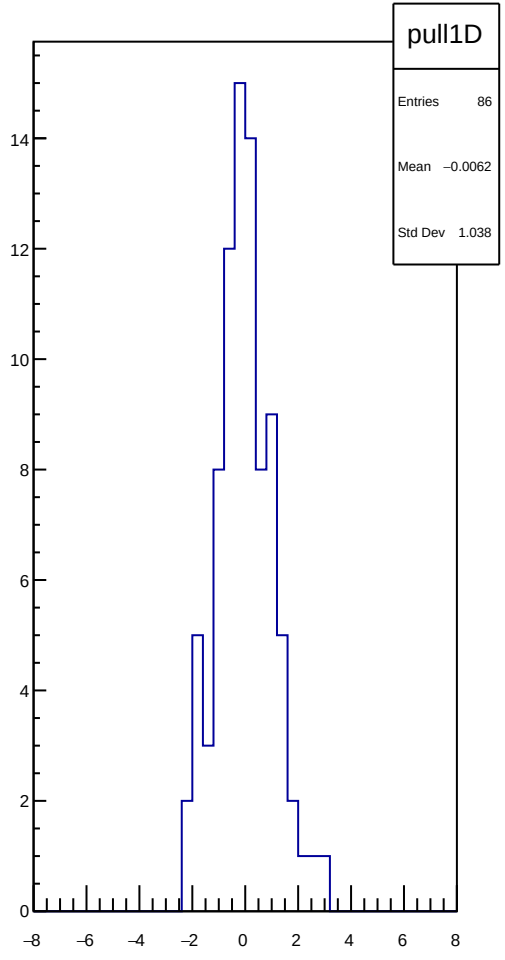

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 3212 / 85
p0 633.2 ± 0.4884
700
680
660
640
620
600
580
560

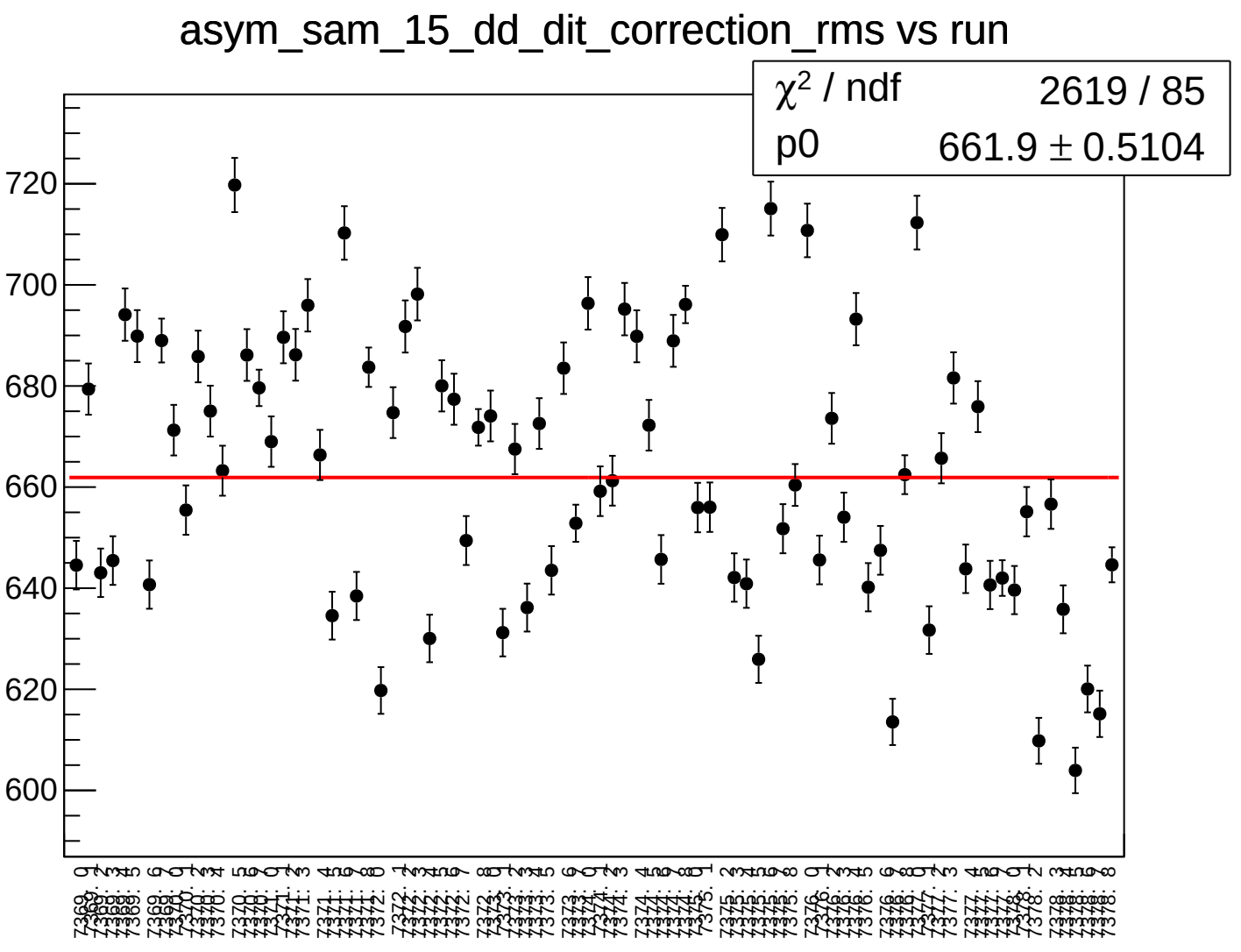

dit_asym_sam_15_dd_mean vs run
χ² / ndf 110.2 / 85
p0 −394.4 ± 150.9
pull
Entries 86
Mean −52.25
Std Dev 0

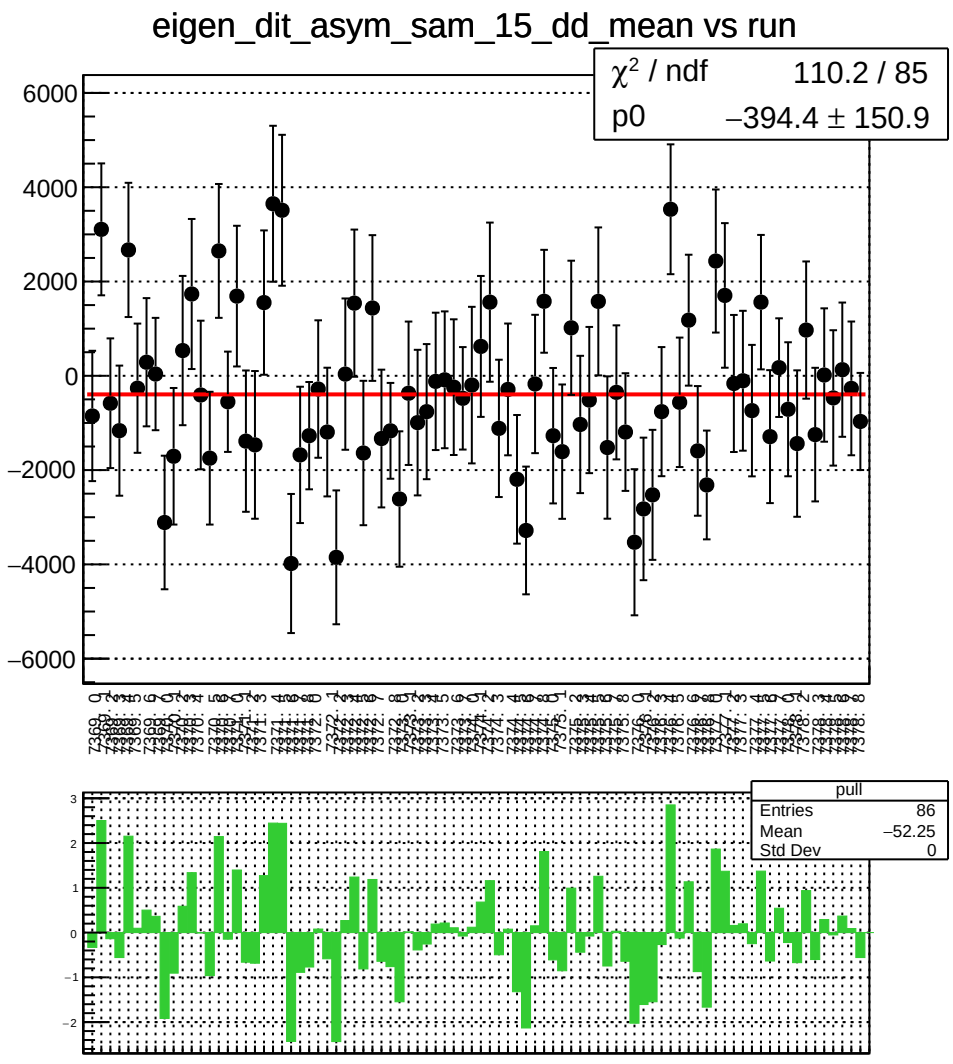

pull1D
Entries 86
Mean 0.01964
Std Dev 1.132

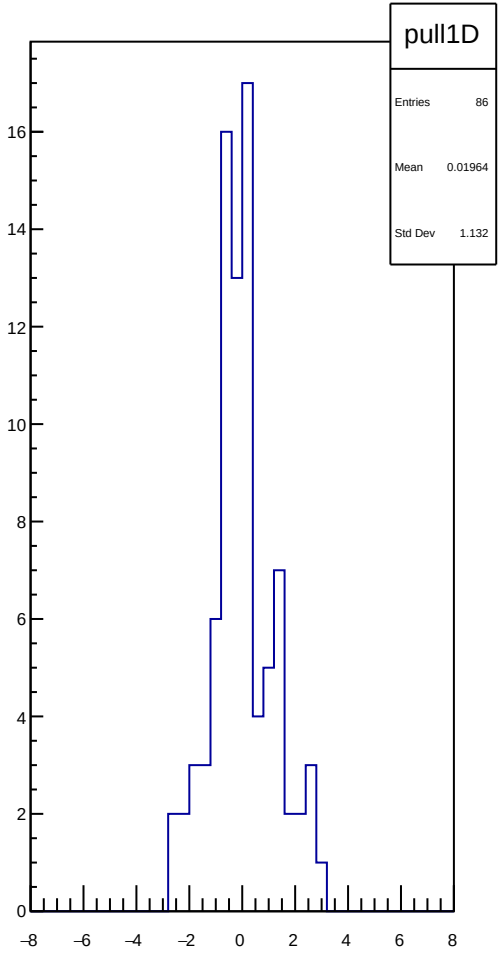

dit_asym_sam_15_dd_rms vs run
χ² / ndf 3904 / 85
p0 138.3 ± 0.1067
160
155
150
145
140
135
130
125

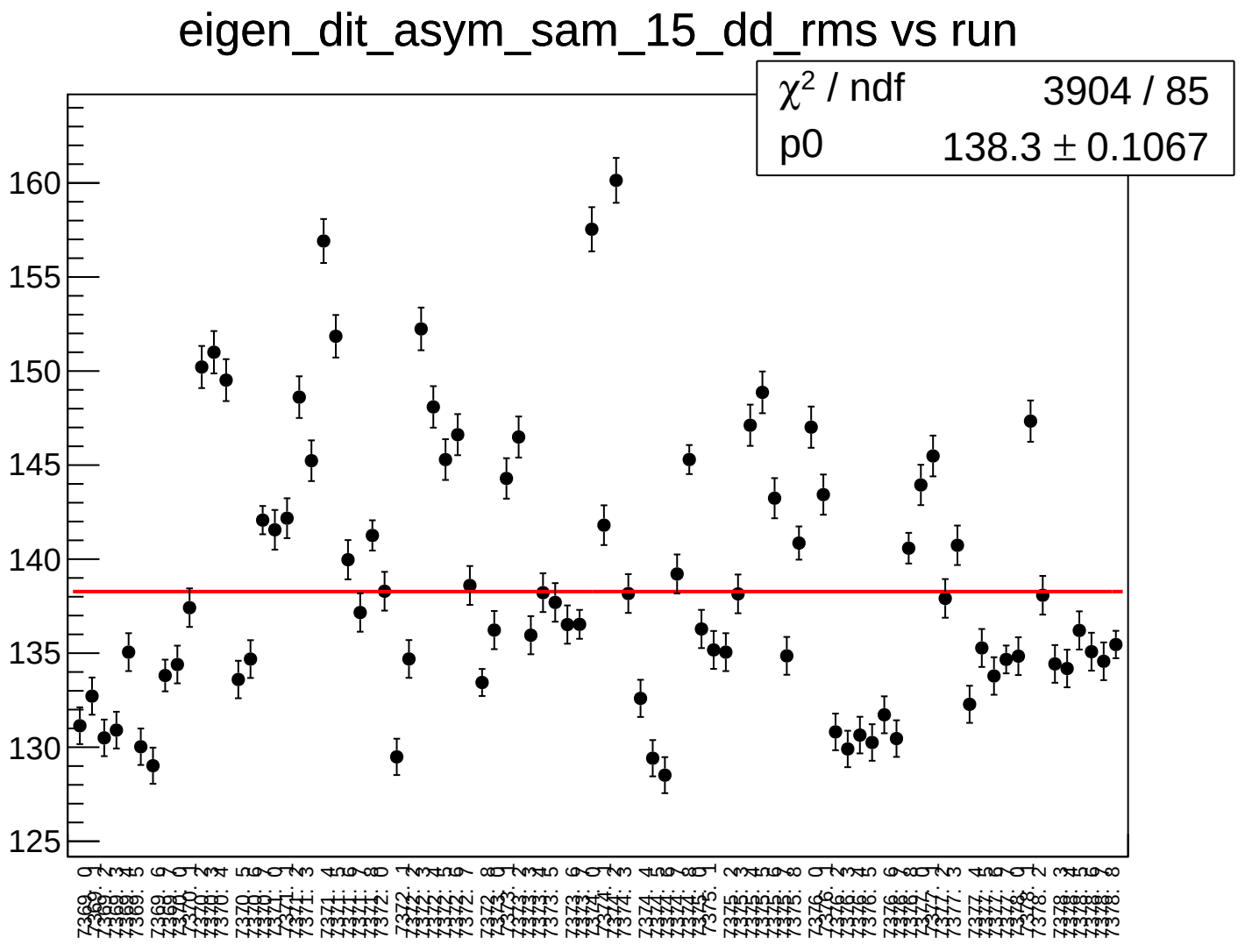

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 92.73 / 85
p0 163.7 ± 721.9
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 246.7
Std Dev 0
3
2
1
0
−1
−2

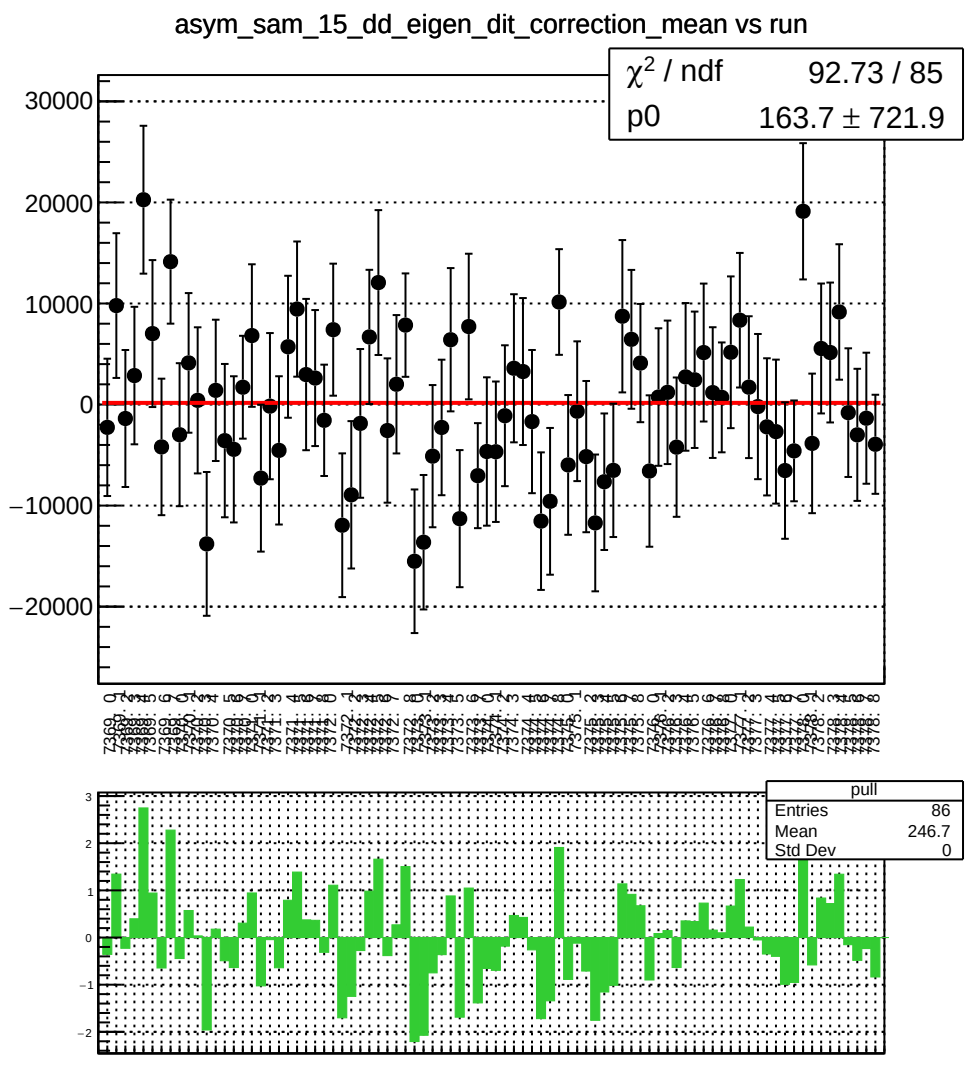

pull1D
Entries 86
Mean −0.0062
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

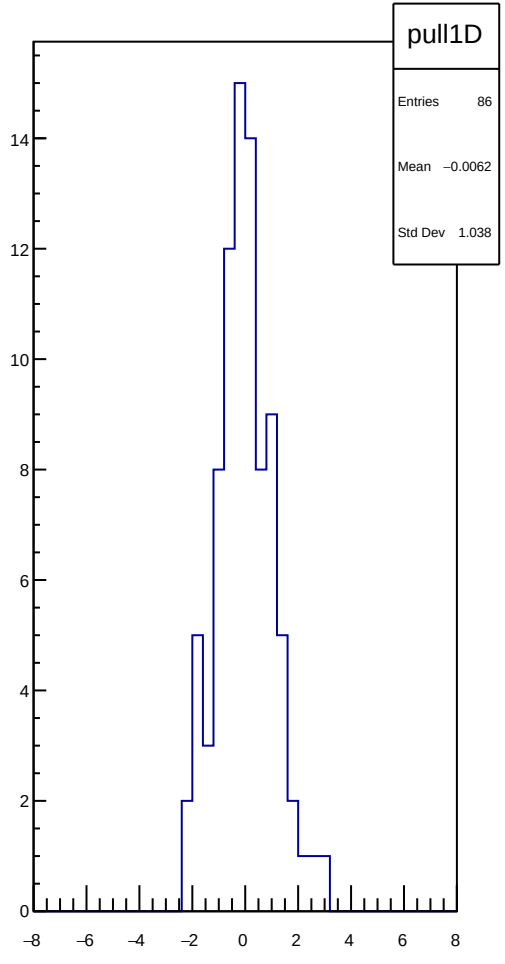

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2619 / 85
p0 661.9 ± 0.5104
720
700
680
660
640
620
600

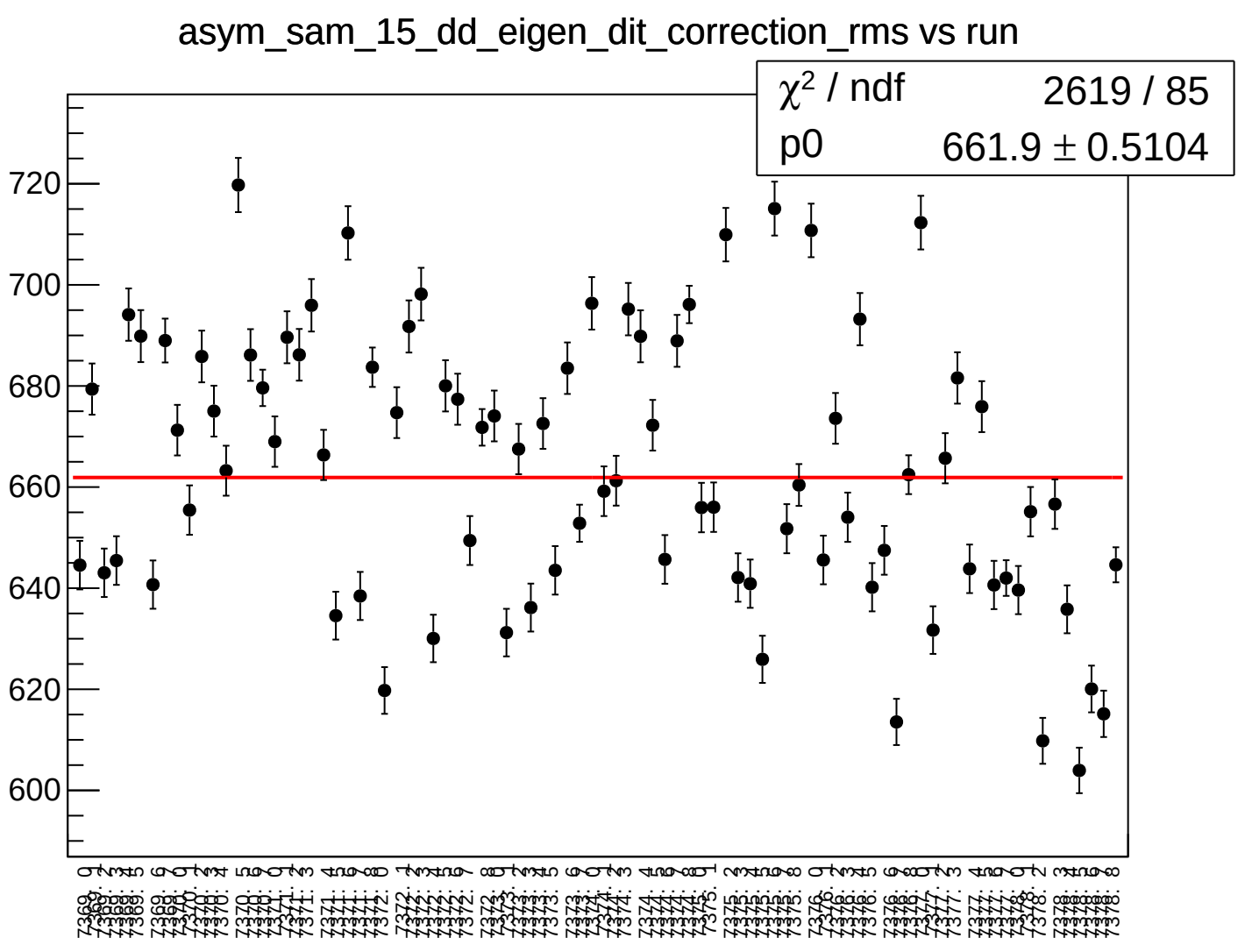

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 110.2 / 85
p0 −394.4 ± 150.9
pull
Entries 86
Mean −52.25
Std Dev 0

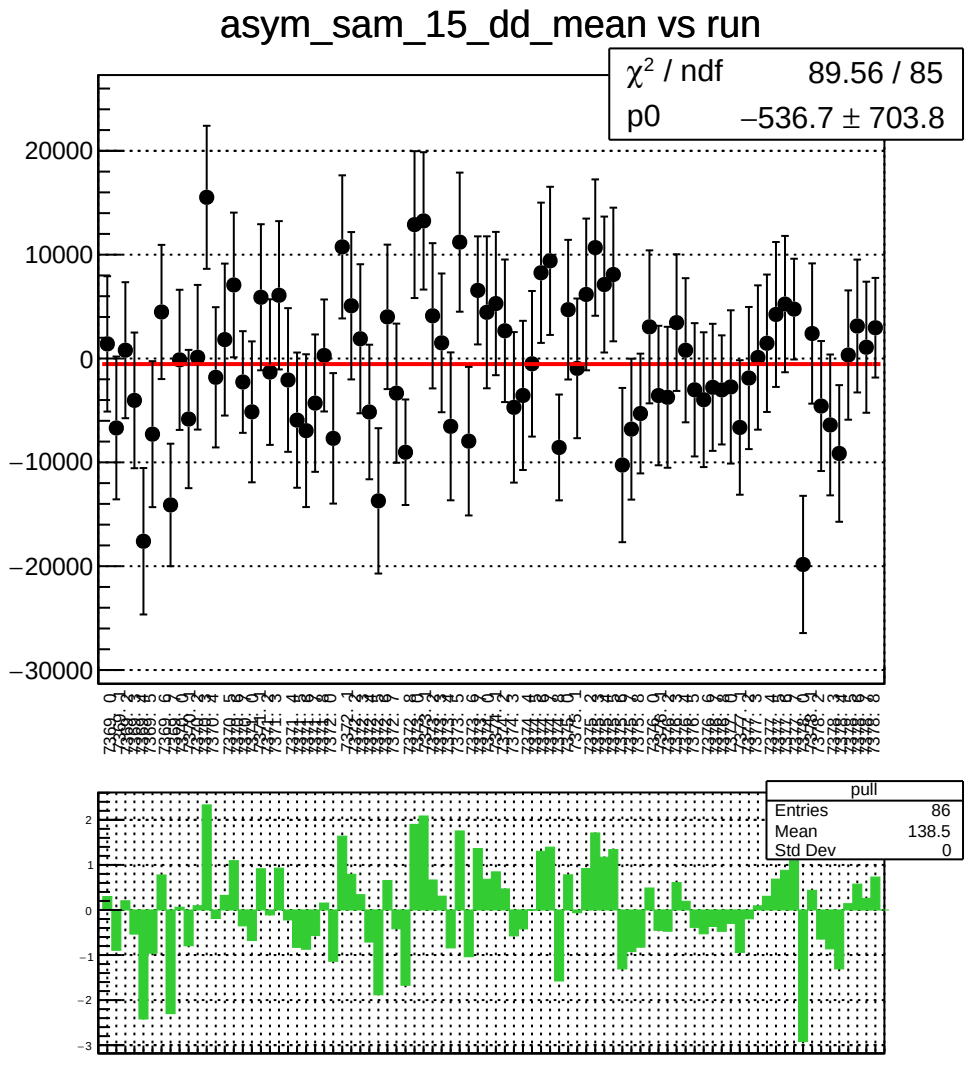

pull1D
Entries 86
Mean 0.01964
Std Dev 1.132

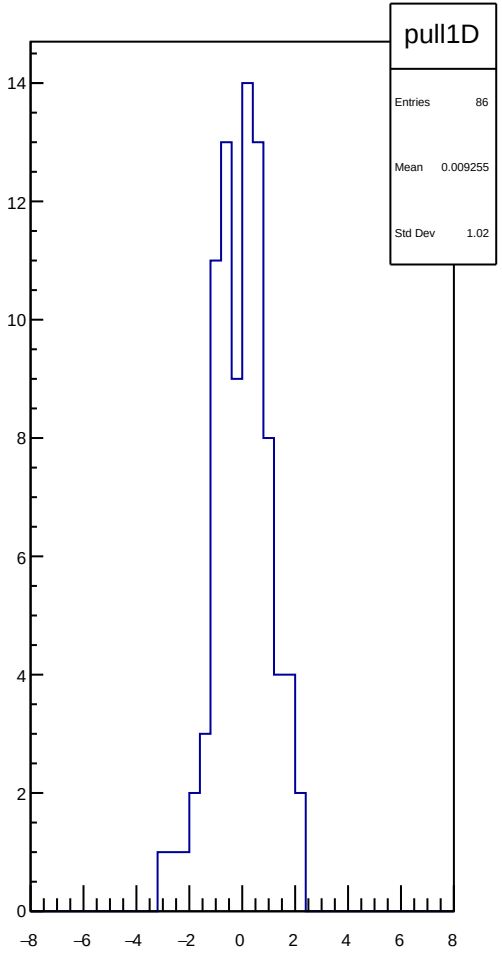

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 3904 / 85
p0 138.3 ± 0.1067
160
155
150
145
140
135
130
125

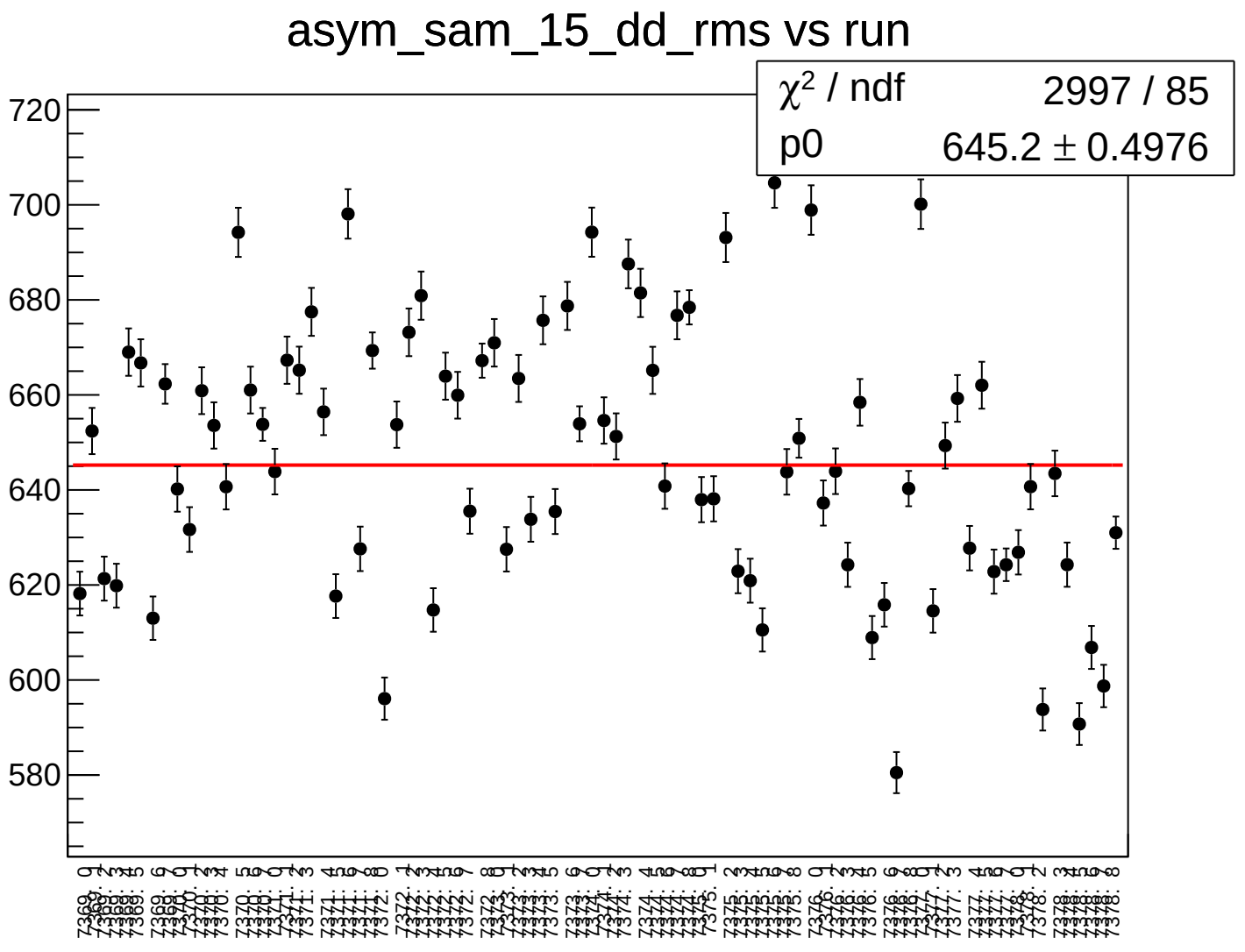

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.73 / 85
p0 163.7 ± 721.9
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 246.7
Std Dev 0
3
2
1
0
−1
−2

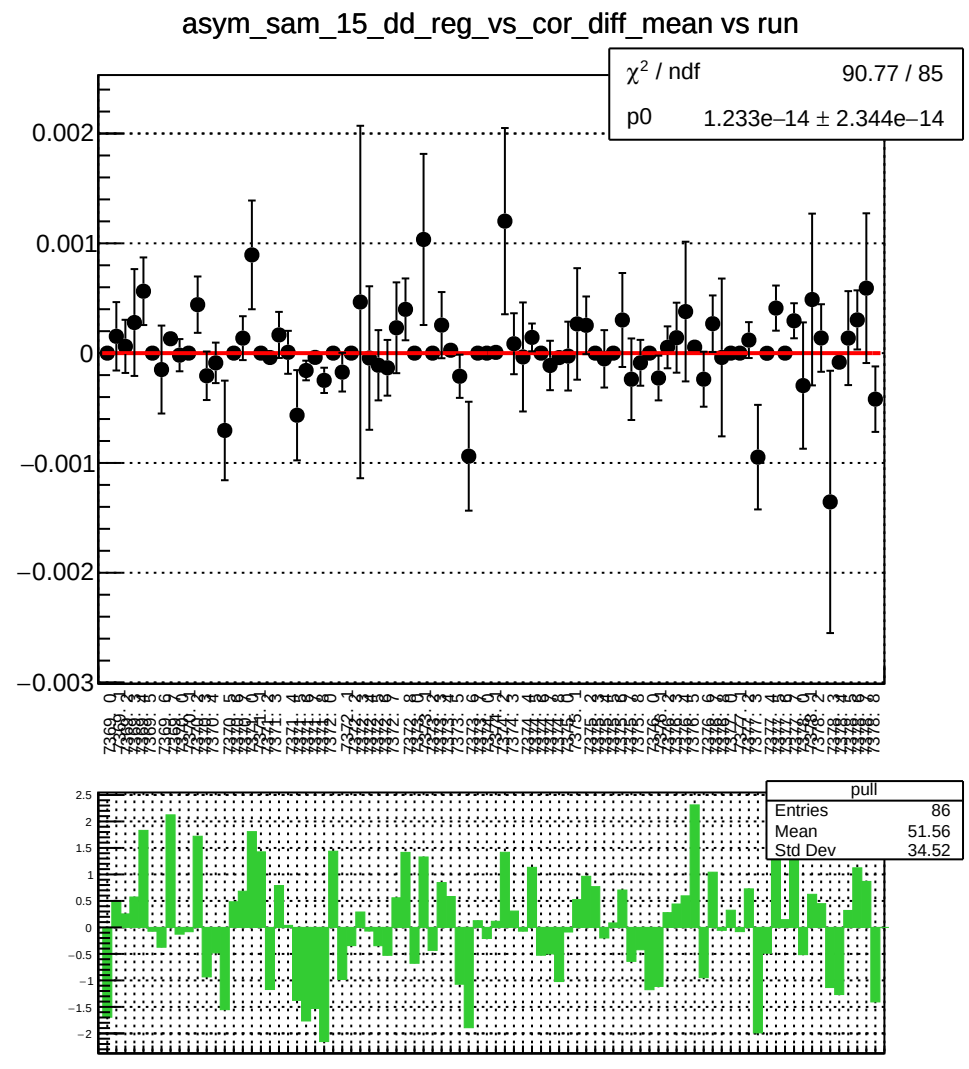

pull1D
Entries 86
Mean −0.0062
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

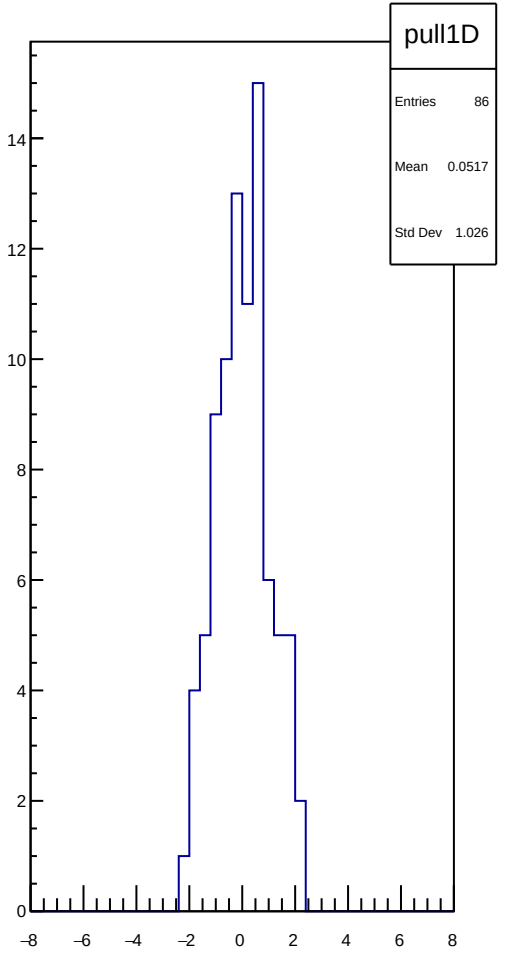

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2619 / 85
p0 661.9 ± 0.5104
720
700
680
660
640
620
600

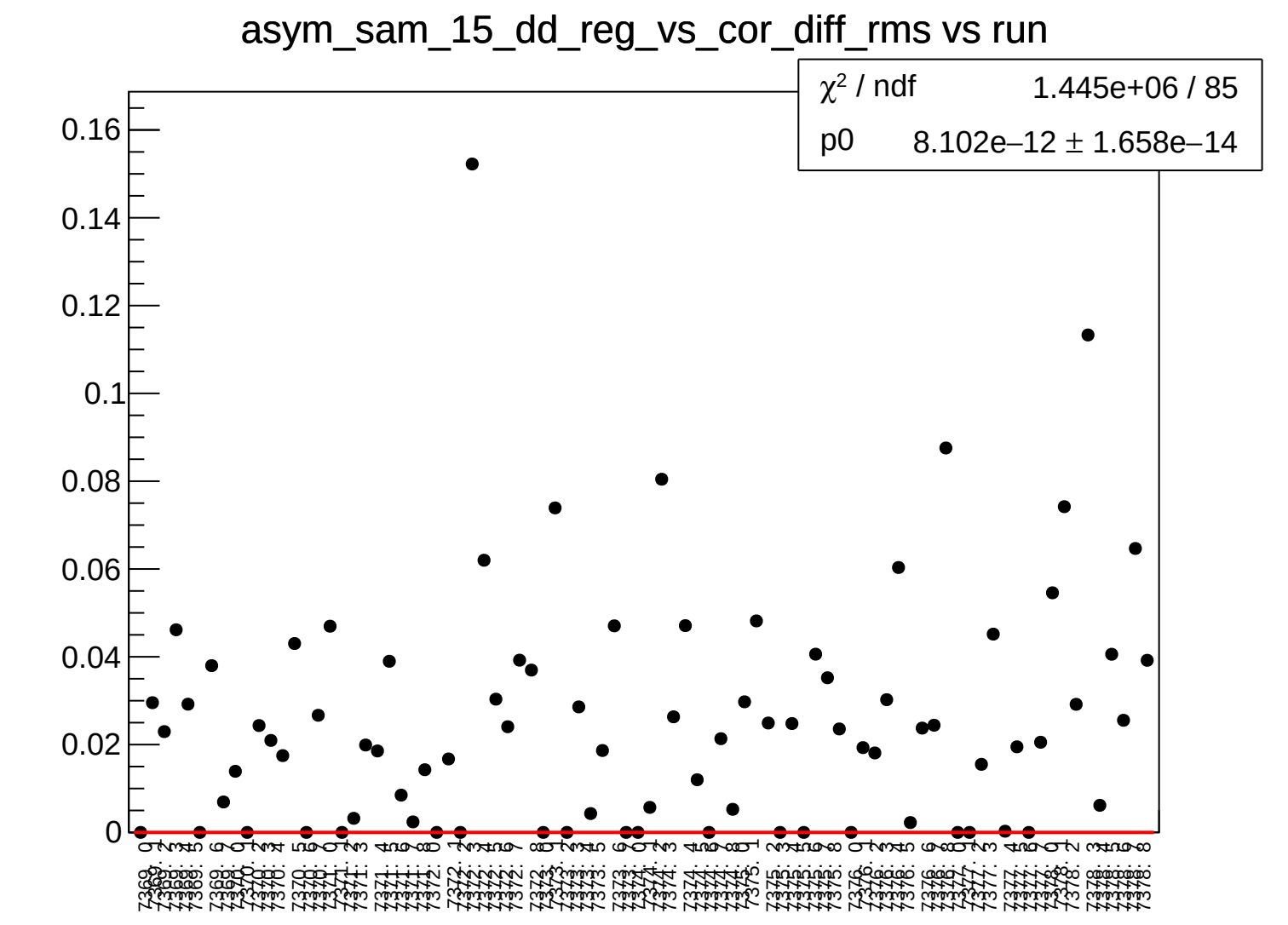

asym_sam_15_dd_mean vs run
χ² / ndf 89.56 / 85
p0 −536.7 ± 703.8
pull
Entries 86
Mean 138.5
Std Dev 0

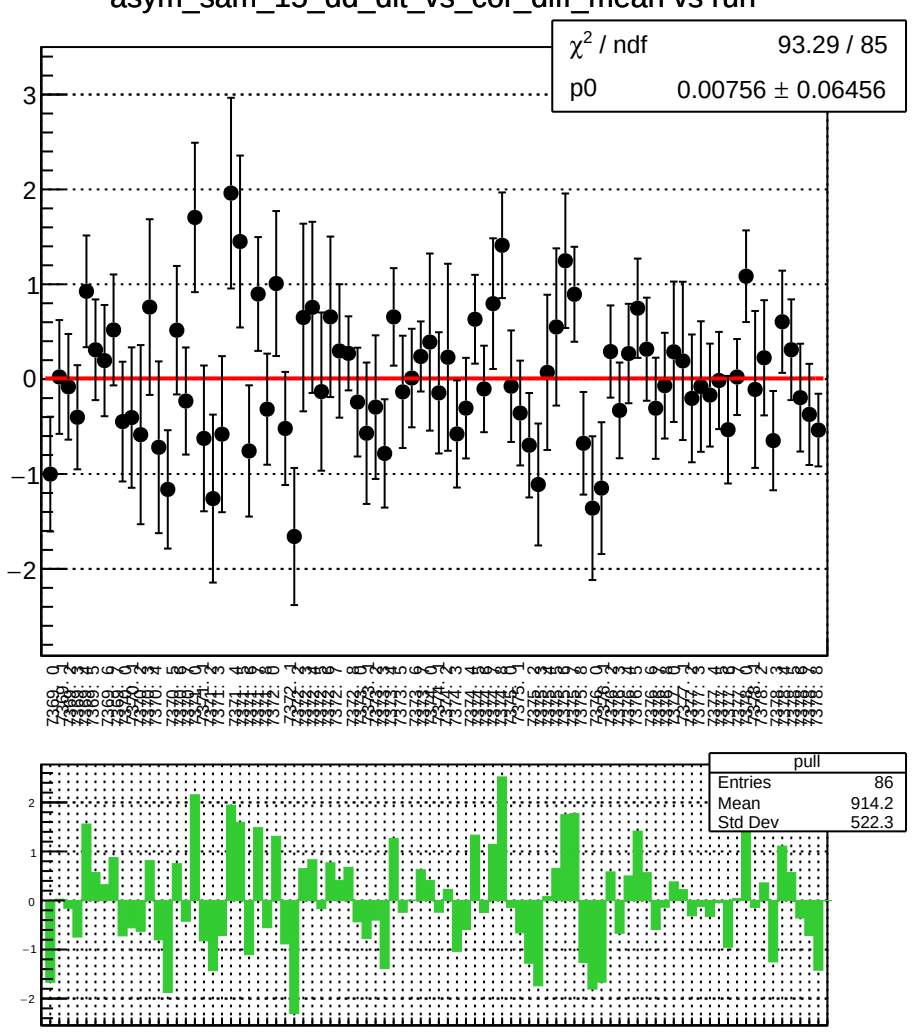

pull1D
Entries 86
Mean 0.009255
Std Dev 1.02

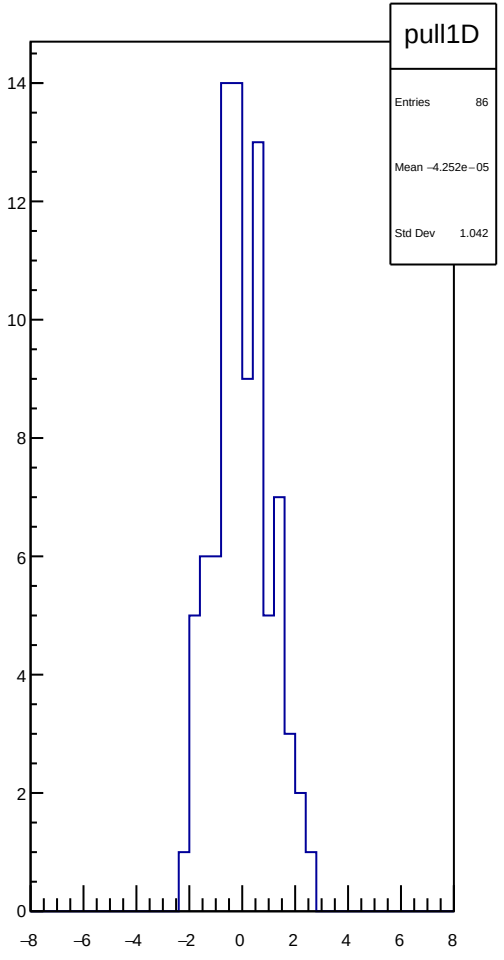

asym_sam_15_dd_rms vs run
χ² / ndf 2997 / 85
p0 645.2 ± 0.4976
720
700
680
660
640
620
600
580

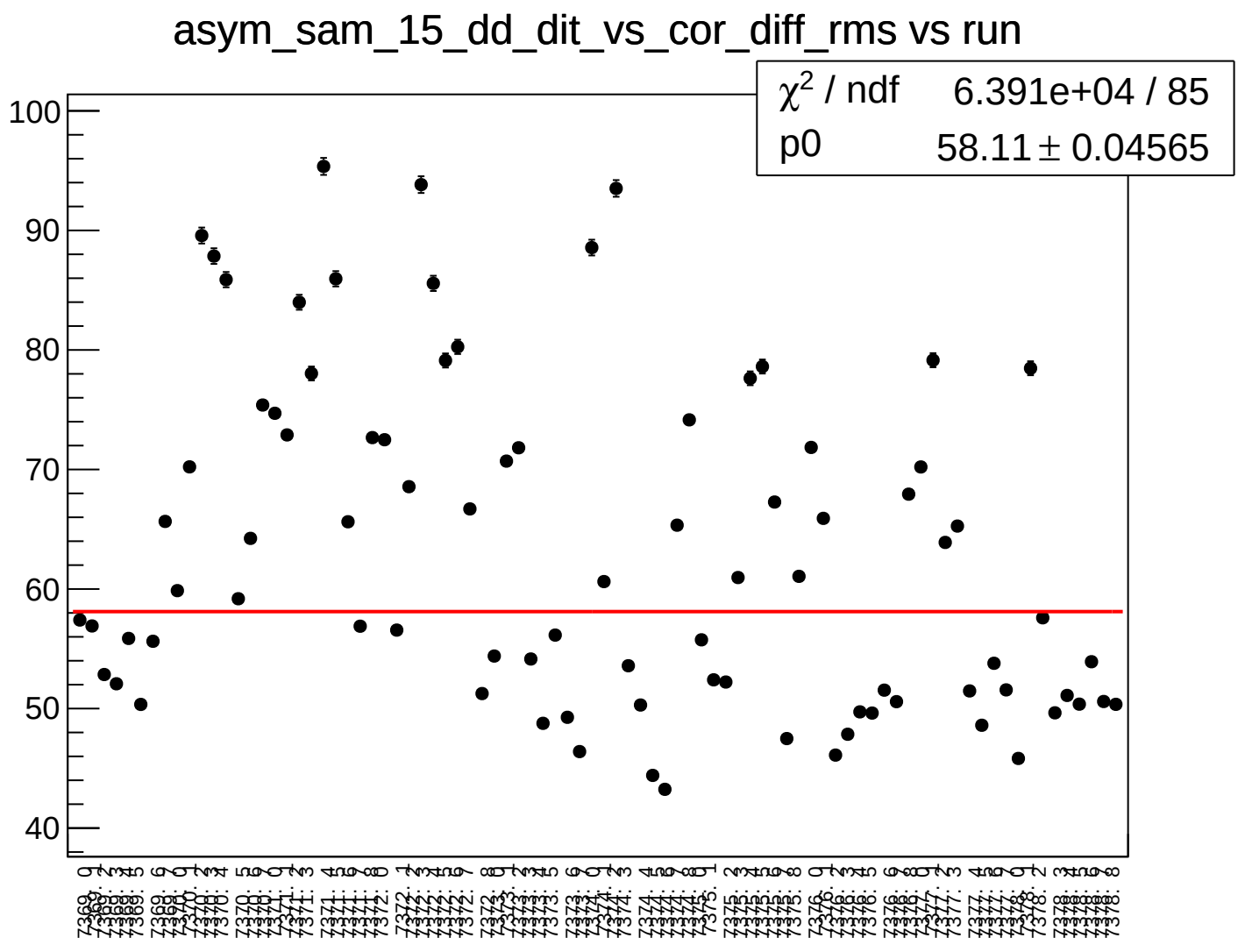

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.77 / 85
p0 1.233e−14 ± 2.344e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 86
Mean 51.56
Std Dev 34.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

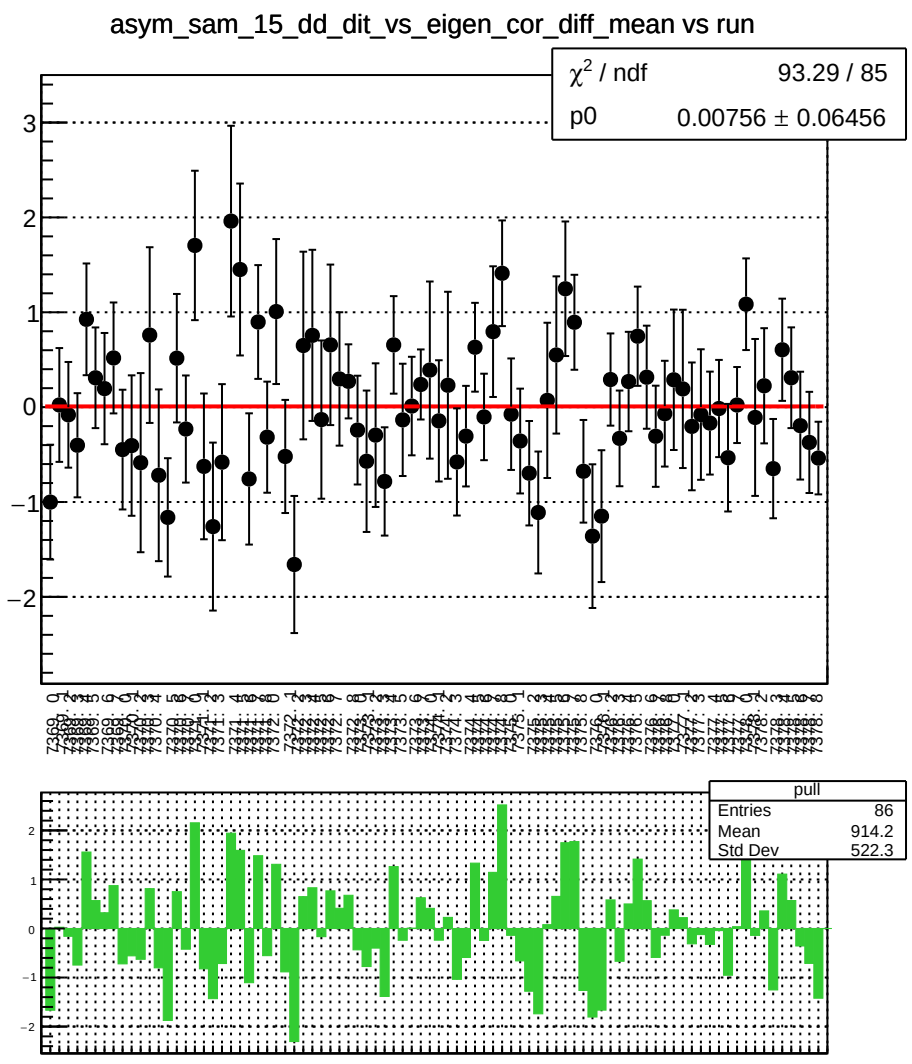

pull1D
Entries 86
Mean 0.0517
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

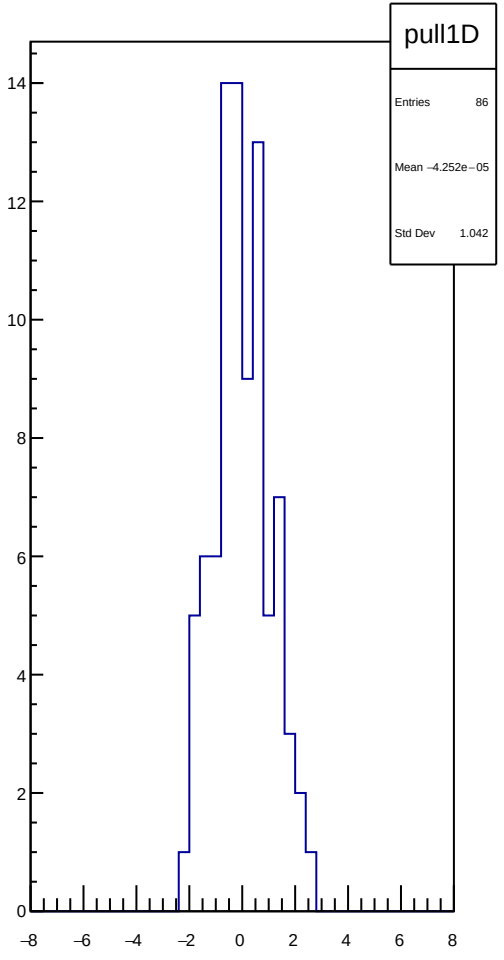

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.445e+06 / 85
p0 8.102e−12 ± 1.658e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

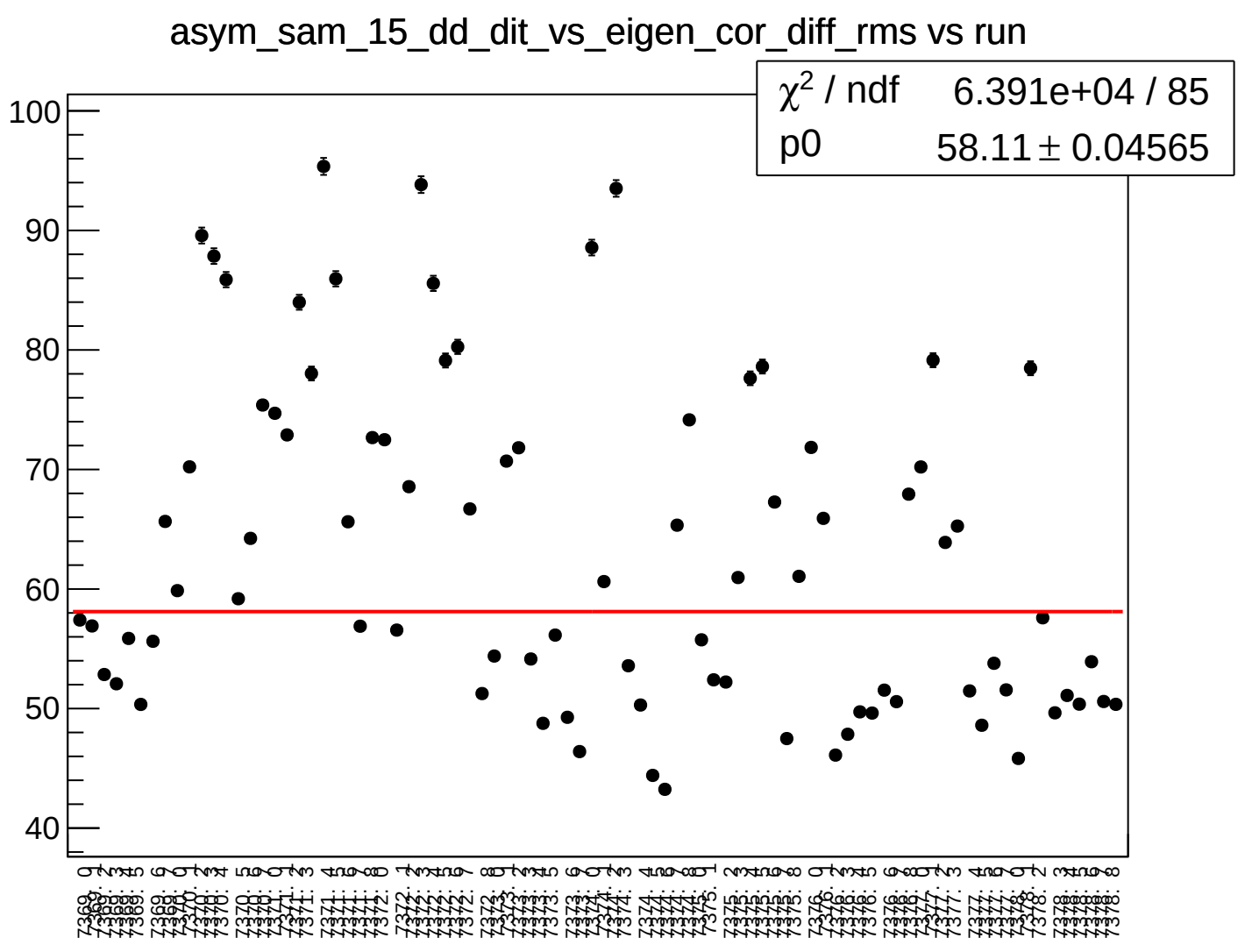

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.29 / 85
p0 0.00756 ± 0.06456
pull
Entries 86
Mean 914.2
Std Dev 522.3

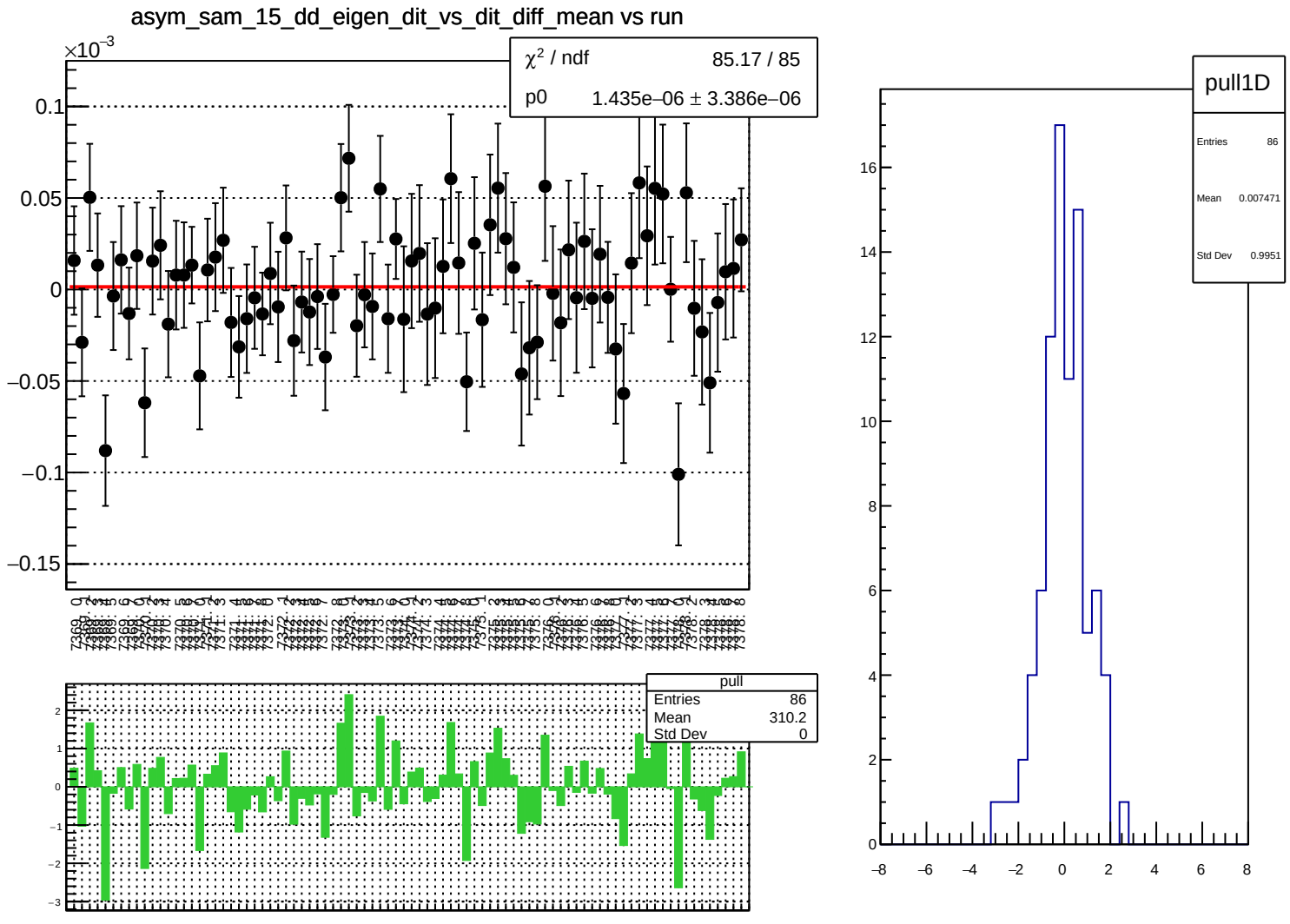

pull1D
Entries 86
Mean −4.252e−05
Std Dev 1.042

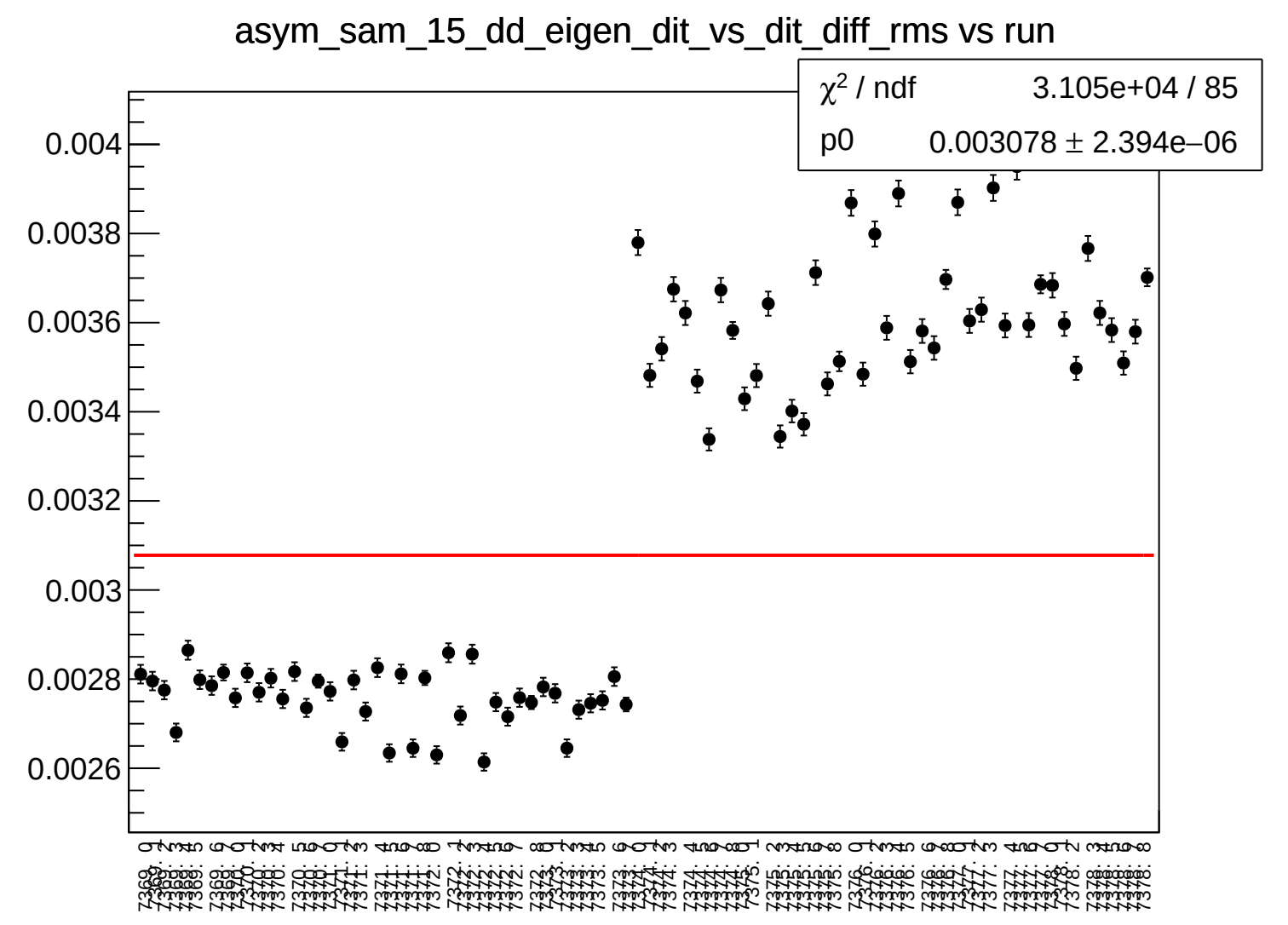

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.391e+04 / 85
p0 58.11 ± 0.04565
100
90
80
70
60
50
40

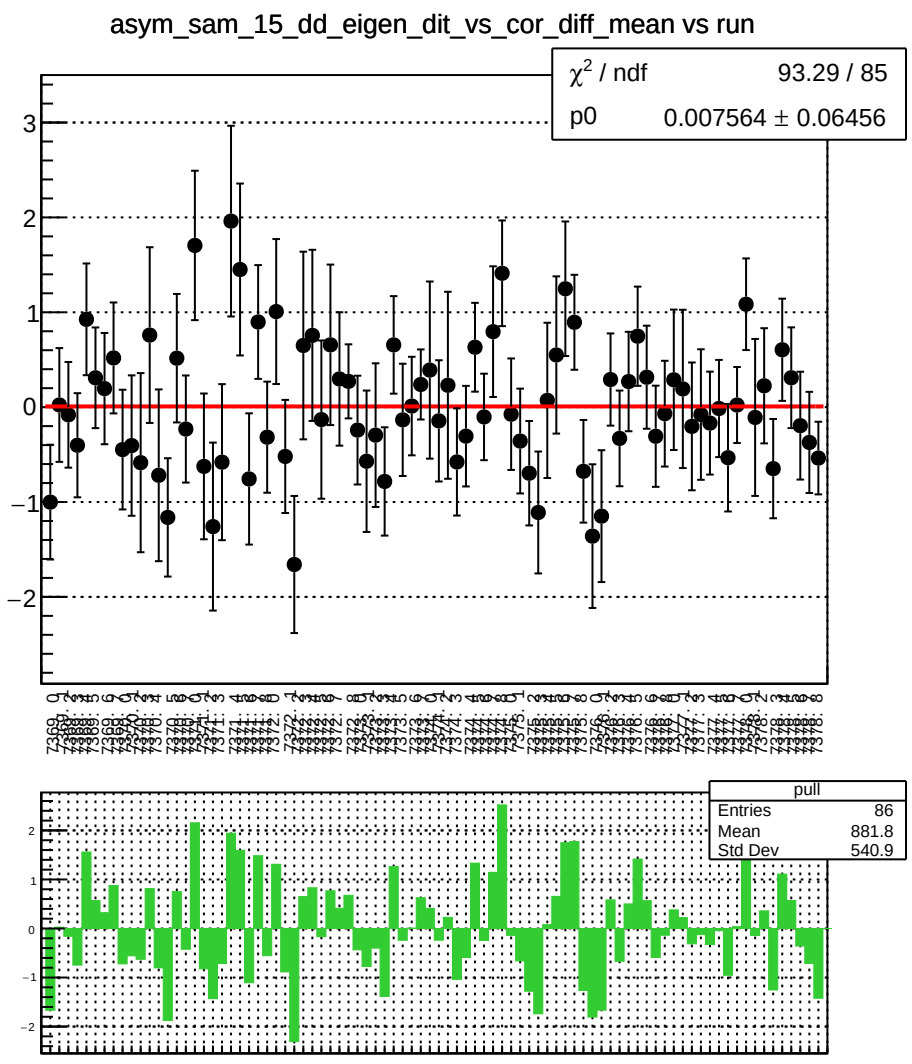

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.29 / 85
p0 0.00756 ± 0.06456
pull
Entries 86
Mean 914.2
Std Dev 522.3

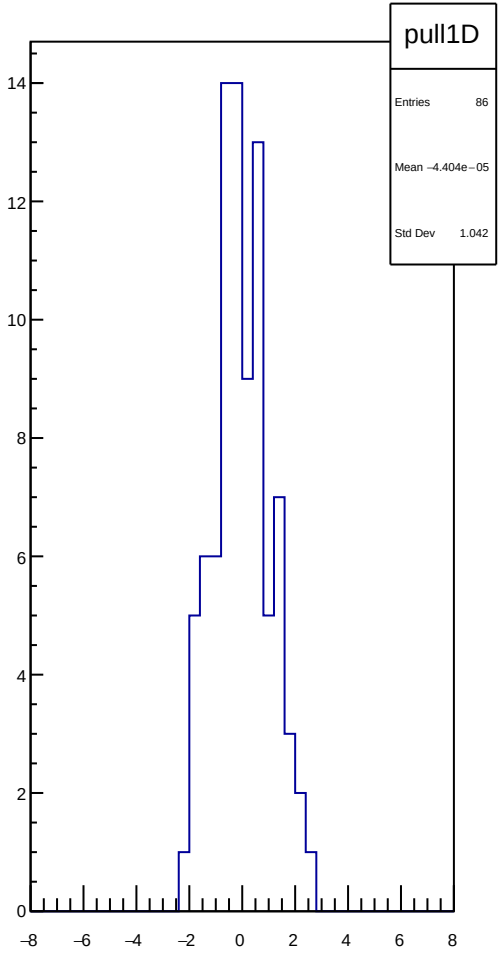

pull1D
Entries 86
Mean −4.252e−05
Std Dev 1.042

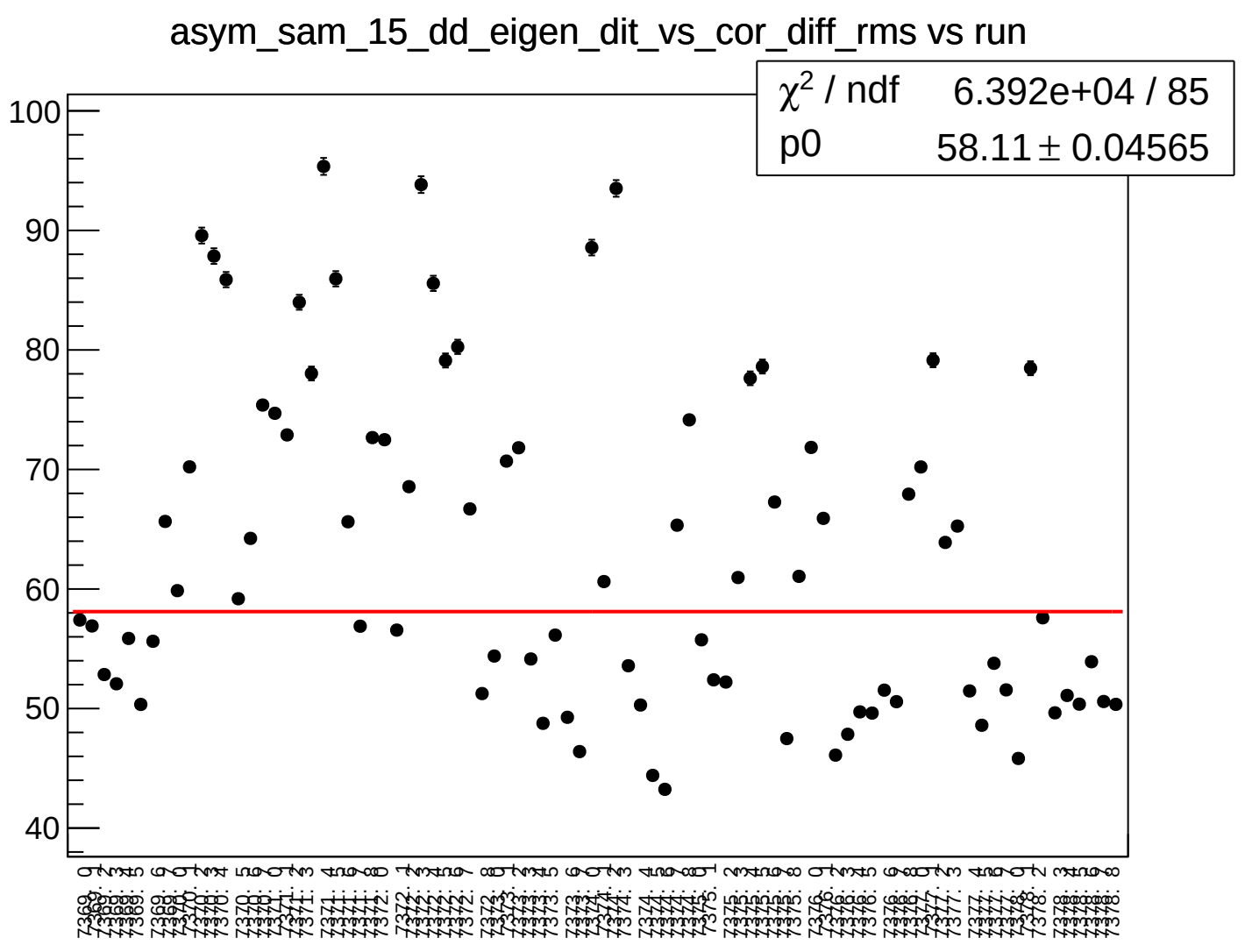

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.391e+04 / 85
p0 58.11 ± 0.04565
100
90
80
70
60
50
40

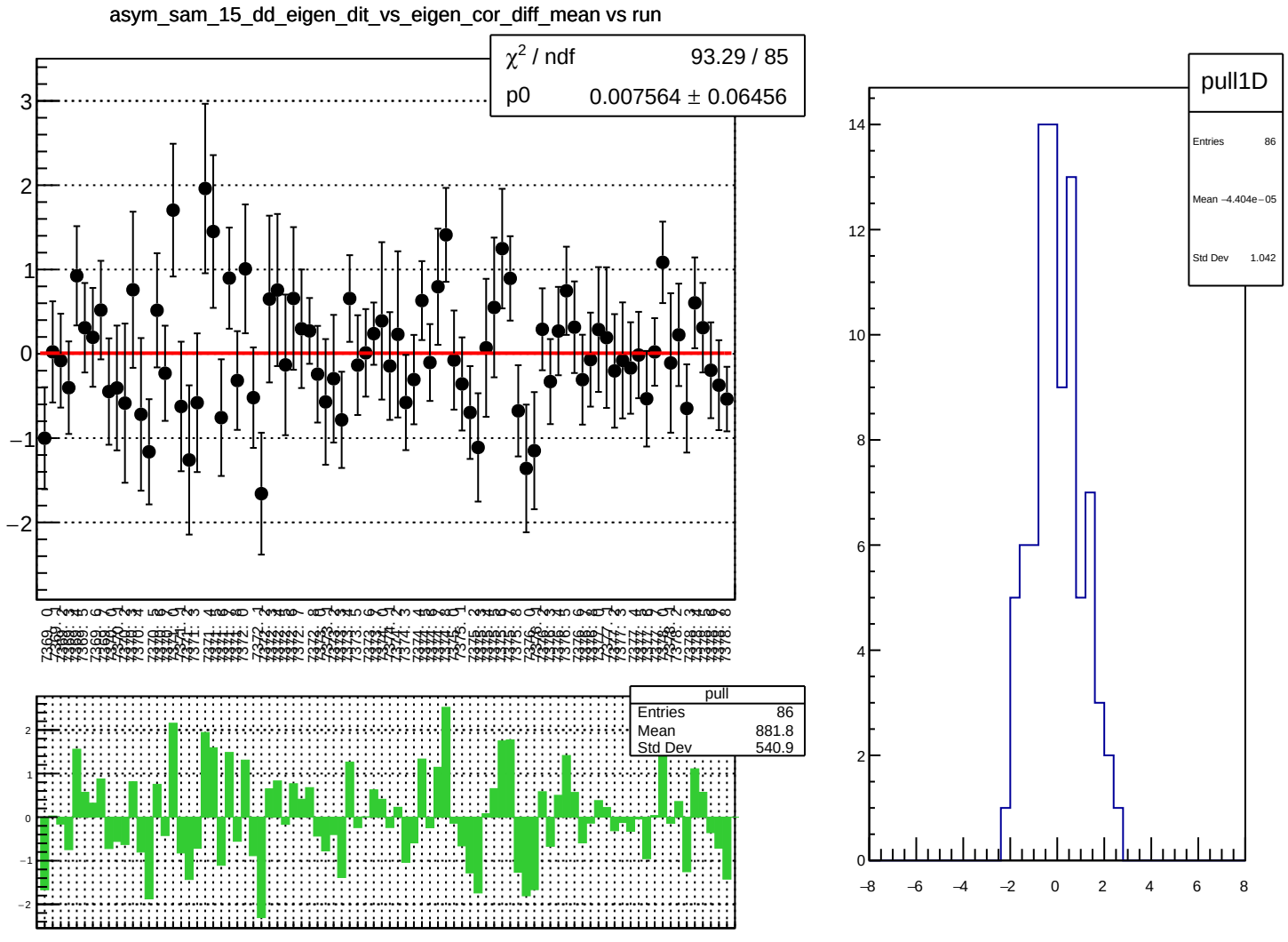

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.17 / 85
p0 1.435e−06 ± 3.386e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 310.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.007471
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

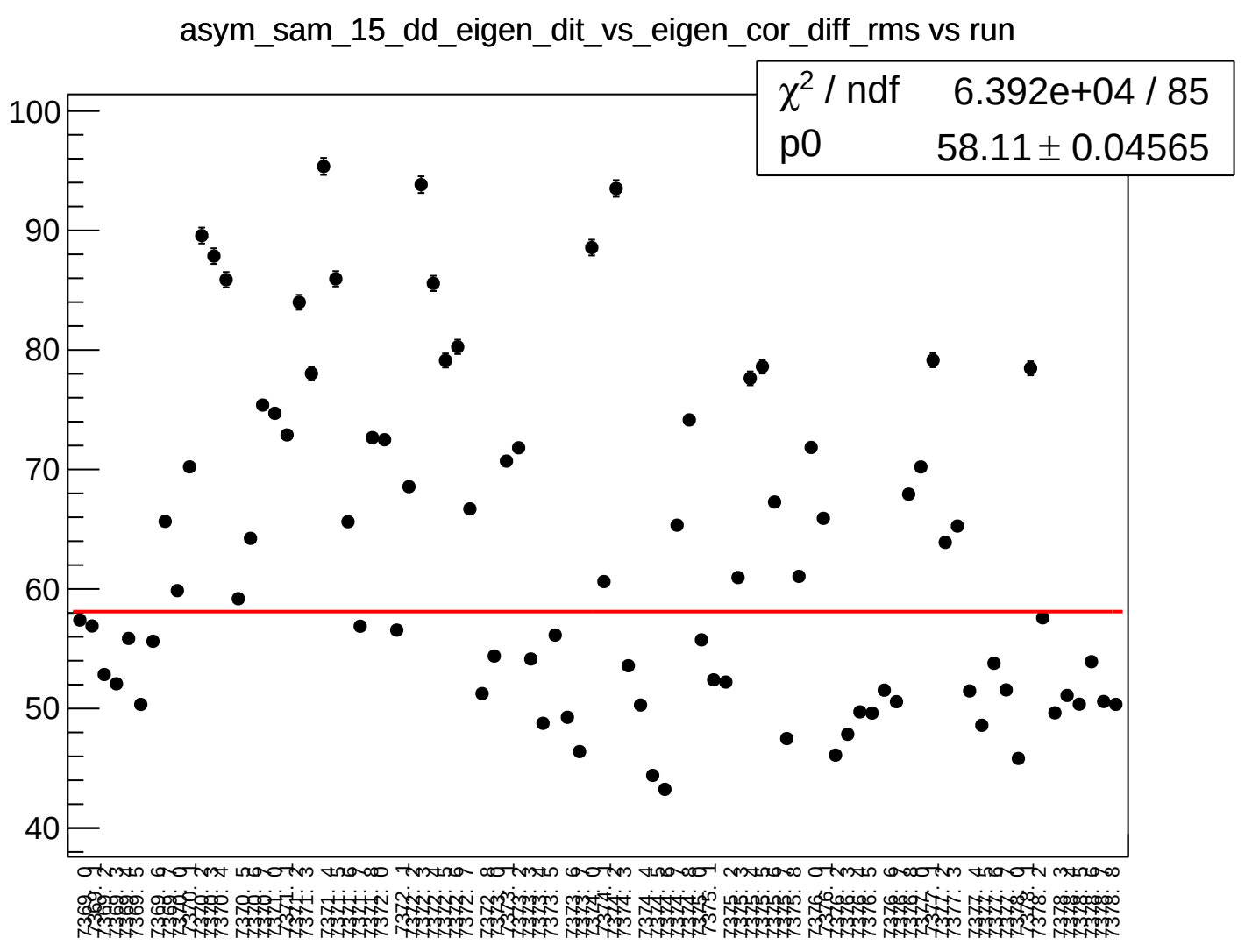

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.105e+04 / 85
p0 0.003078 ± 2.394e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

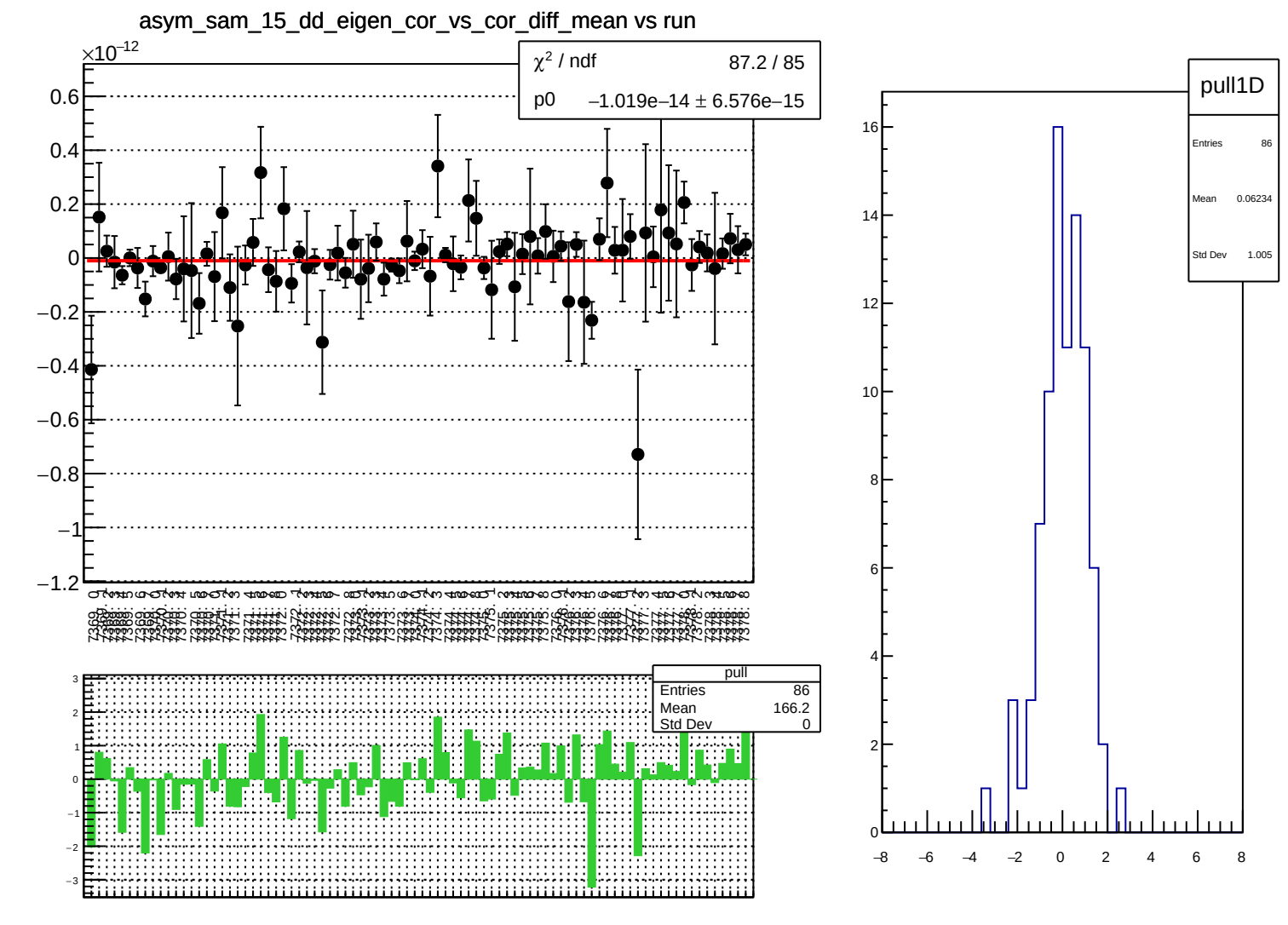

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.29 / 85
p0 0.007564 ± 0.06456
pull
Entries 86
Mean 881.8
Std Dev 540.9

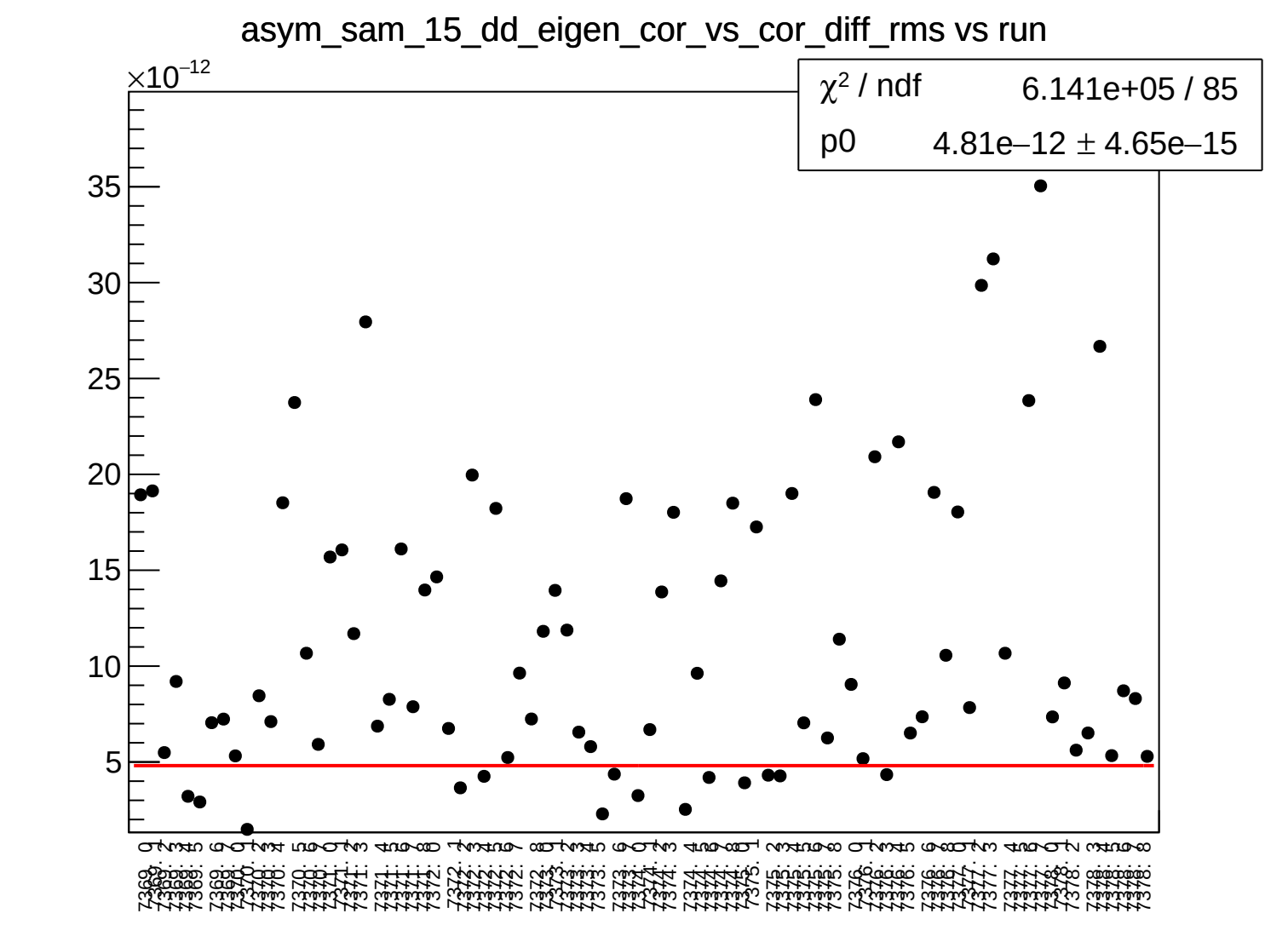

pull1D
Entries 86
Mean −4.404e−05
Std Dev 1.042

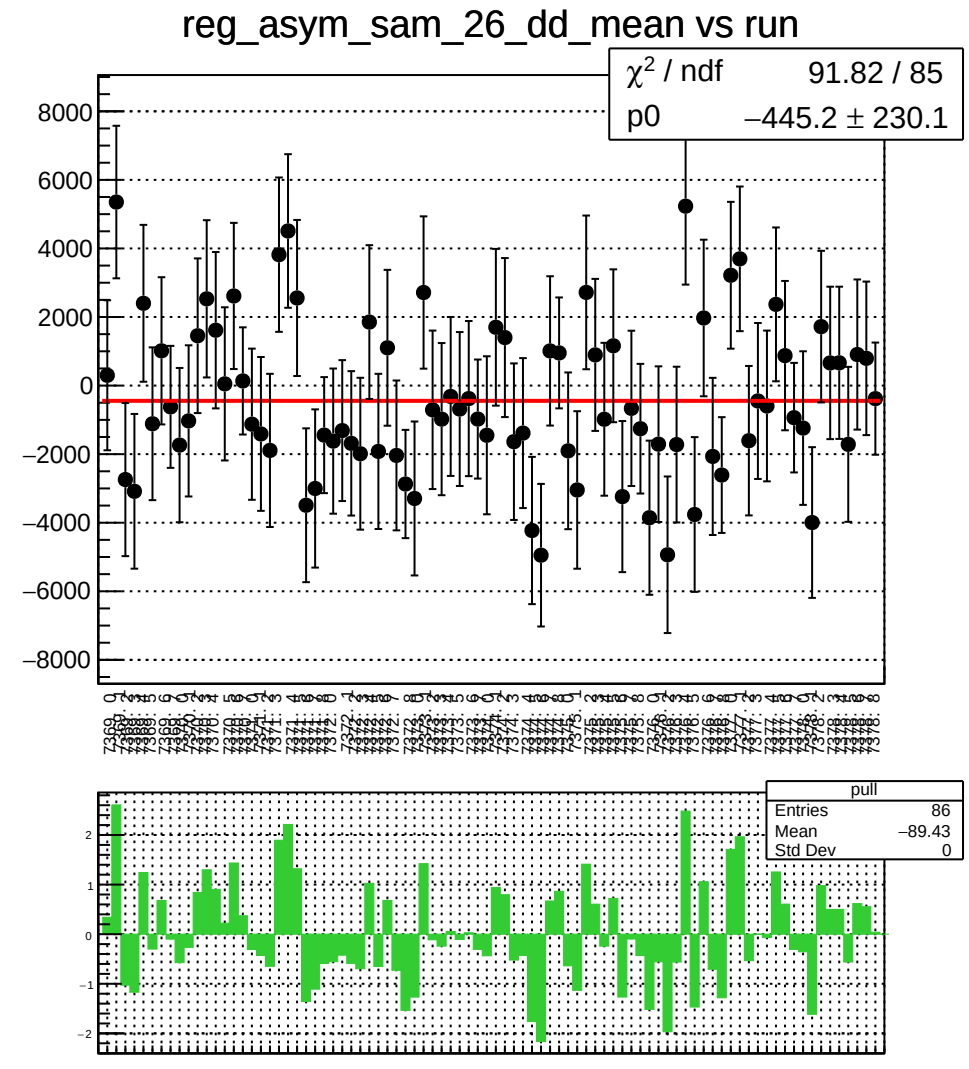

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.392e+04 / 85
p0 58.11 ± 0.04565
100
90
80
70
60
50
40

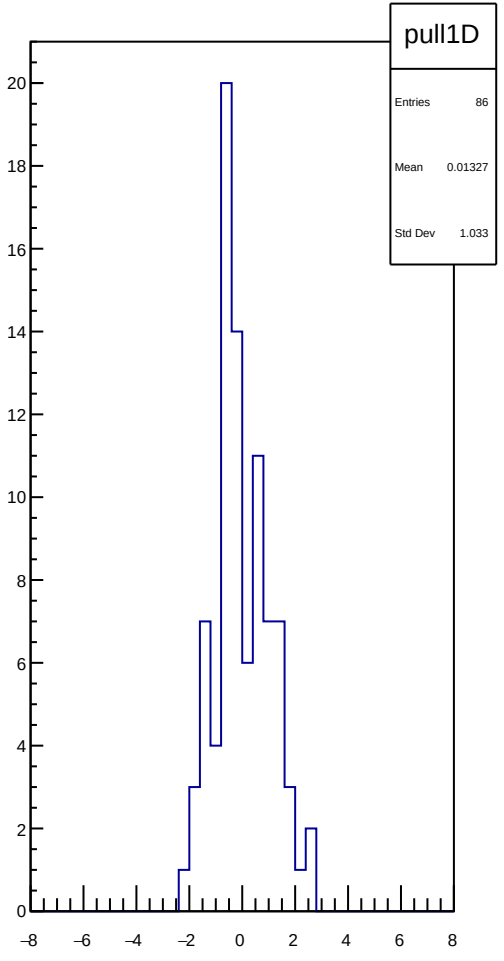

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.29 / 85
p0 0.007564 ± 0.06456
pull
Entries 86
Mean 881.8
Std Dev 540.9
pull1D
Entries 86
Mean −4.404e−05
Std Dev 1.042

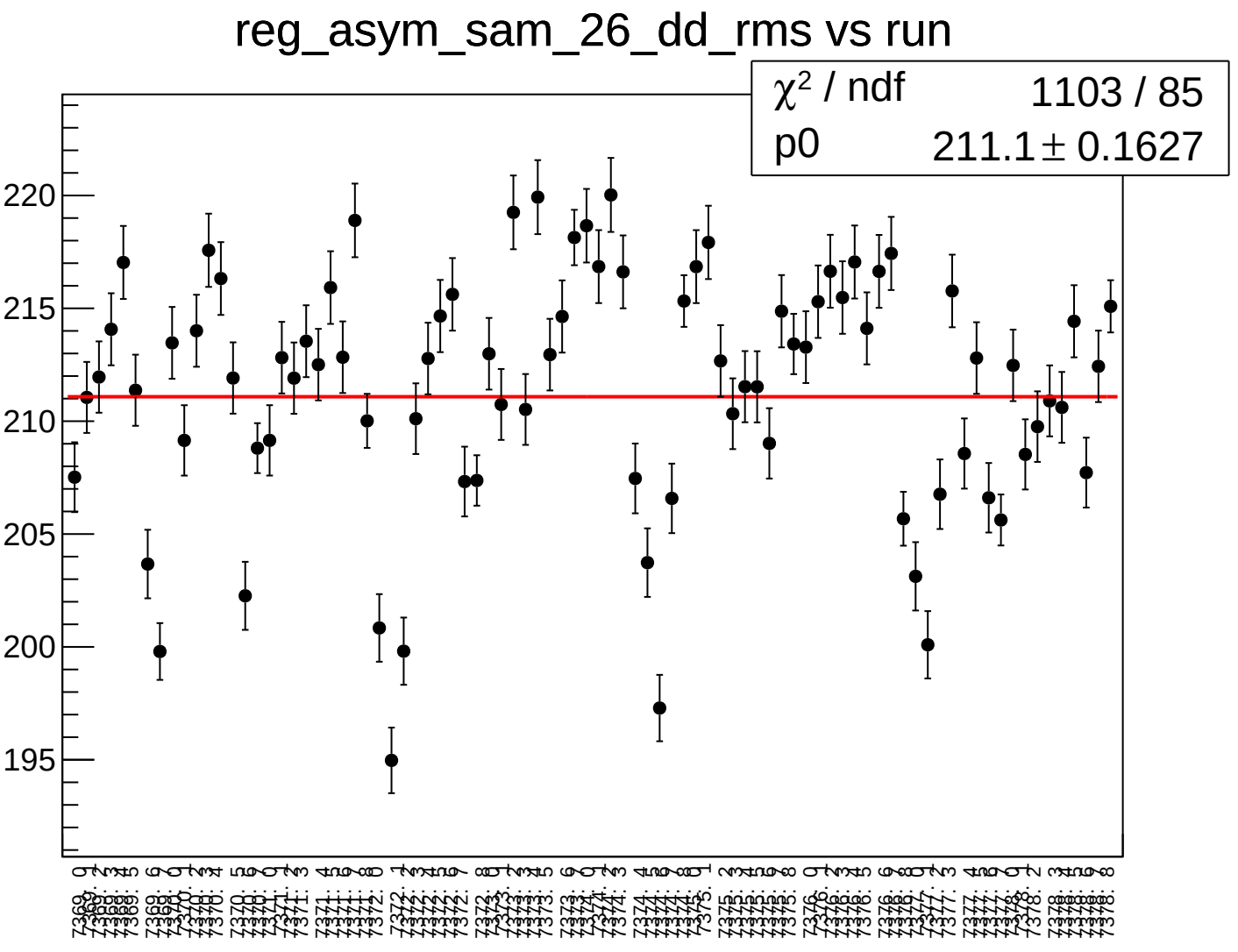

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.392e+04 / 85
p0 58.11 ± 0.04565
100
90
80
70
60
50
40

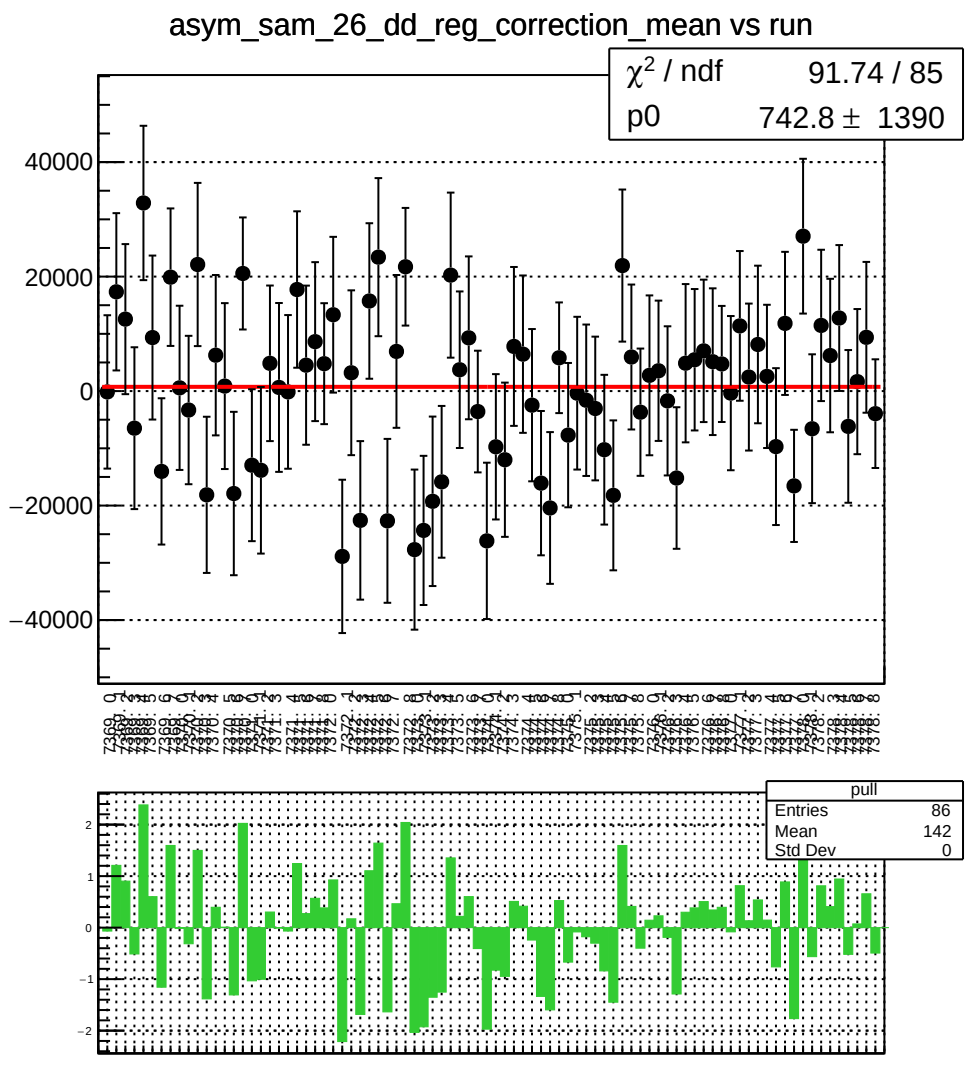

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 87.2 / 85
p0 −1.019e−14 ± 6.576e−15
pull
Entries 86
Mean 166.2
Std Dev 0
pull1D
Entries 86
Mean 0.06234
Std Dev 1.005

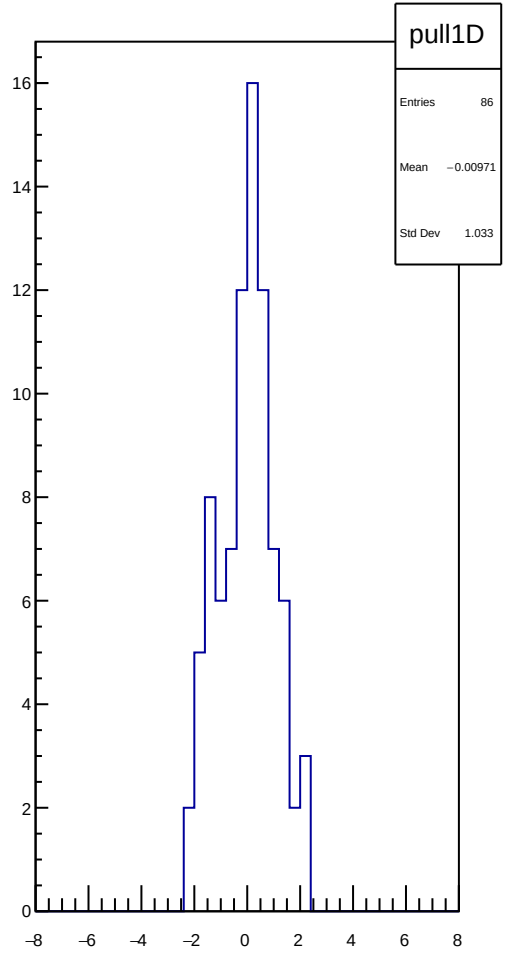

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.141e+05 / 85
p0 4.81e−12 ± 4.65e−15
35
30
25
20
15
10
5

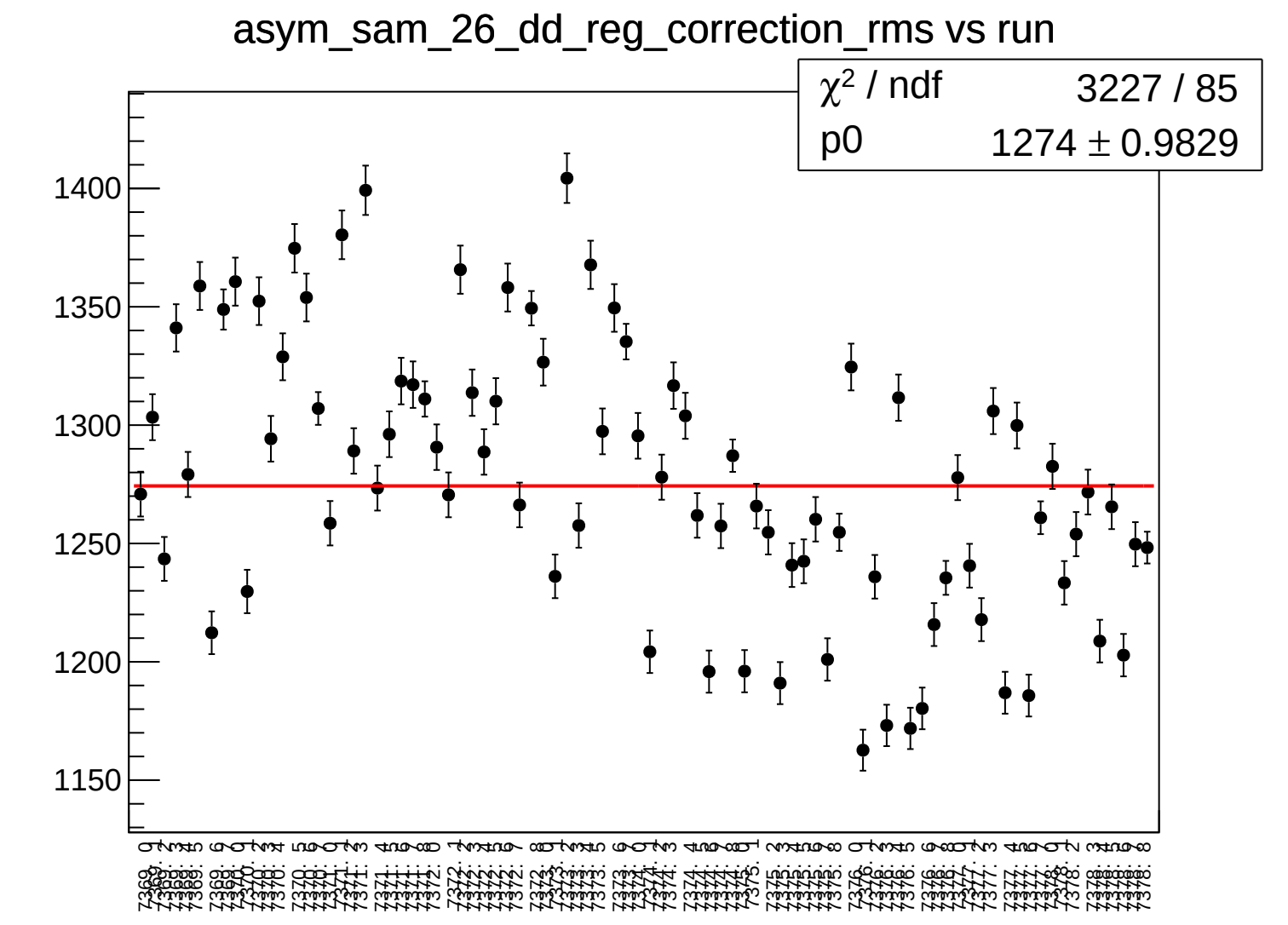

reg_asym_sam_26_dd_mean vs run
χ² / ndf 91.82 / 85
p0 −445.2 ± 230.1
pull
Entries 86
Mean −89.43
Std Dev 0

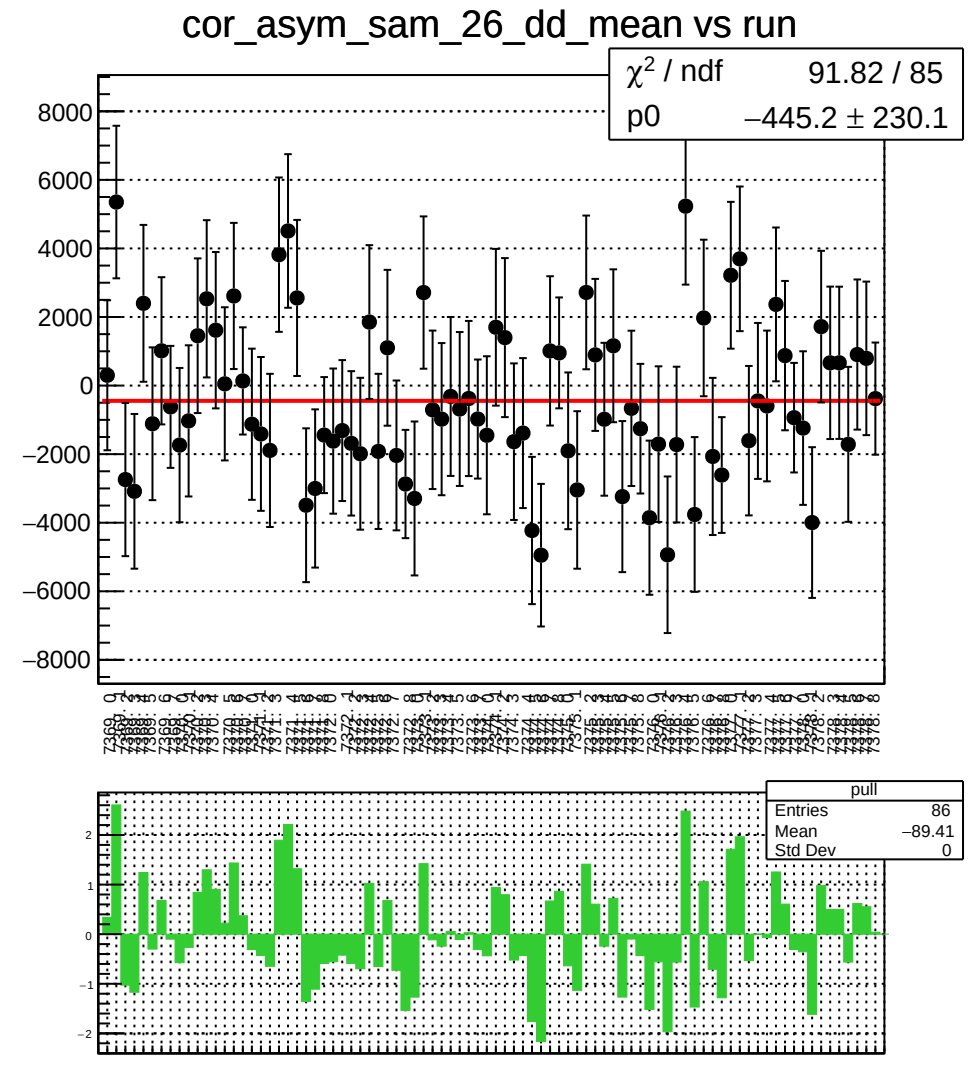

pull1D
Entries 86
Mean 0.01327
Std Dev 1.033

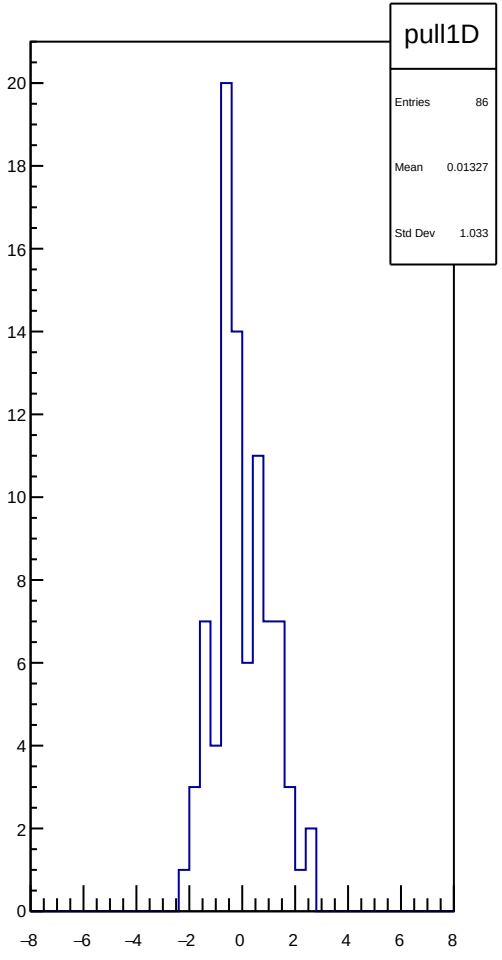

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1103 / 85
p0 211.1 ± 0.1627
220
215
210
205
200
195

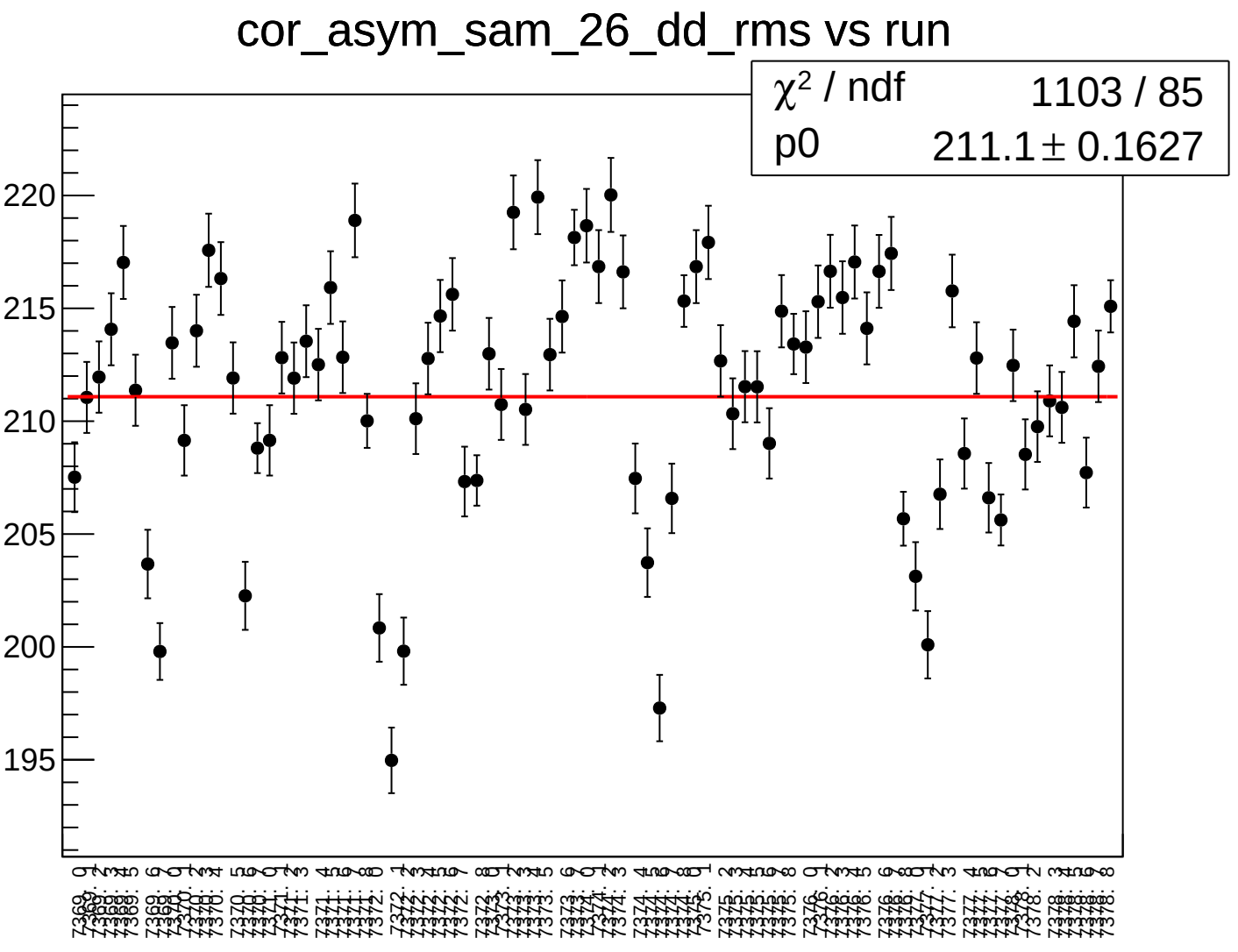

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 91.74 / 85
p0 742.8 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 142
Std Dev 0
2
1
0
−1
−2

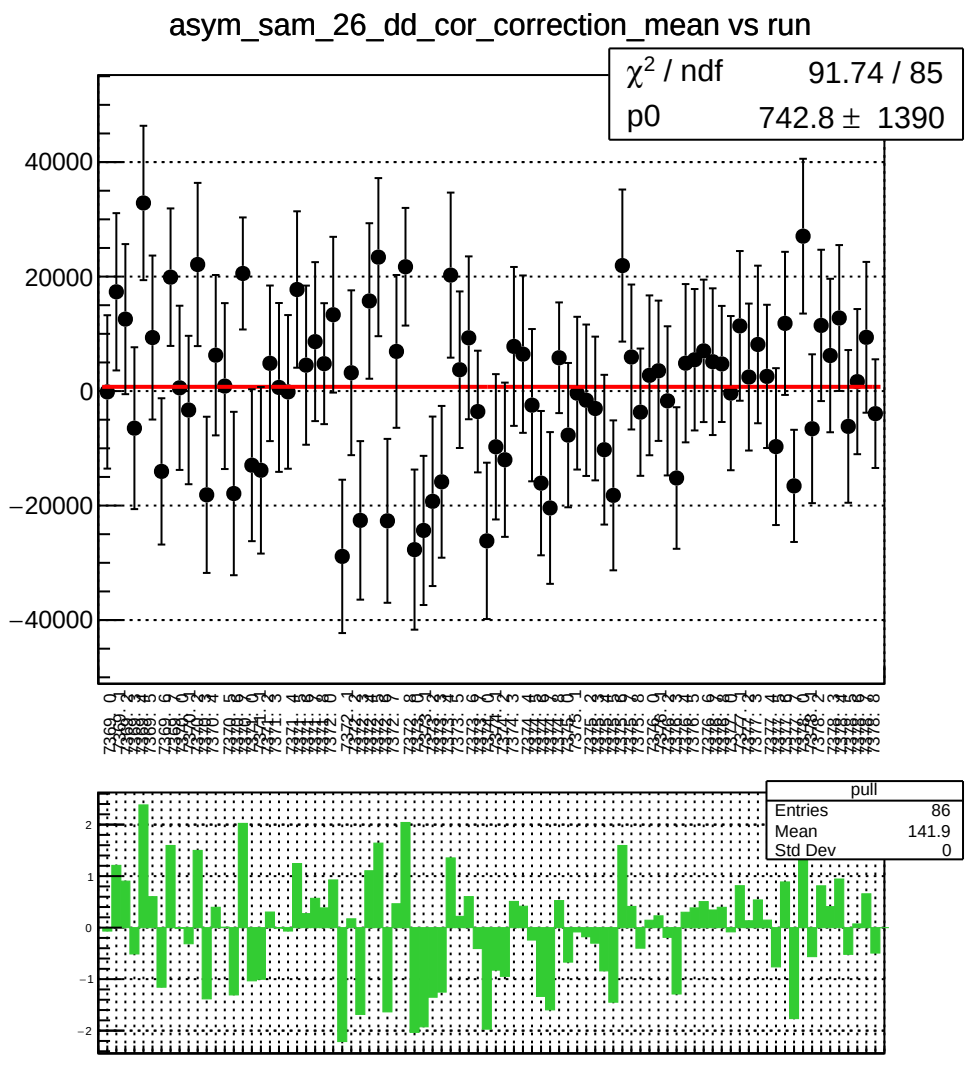

pull1D
Entries 86
Mean −0.00971
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

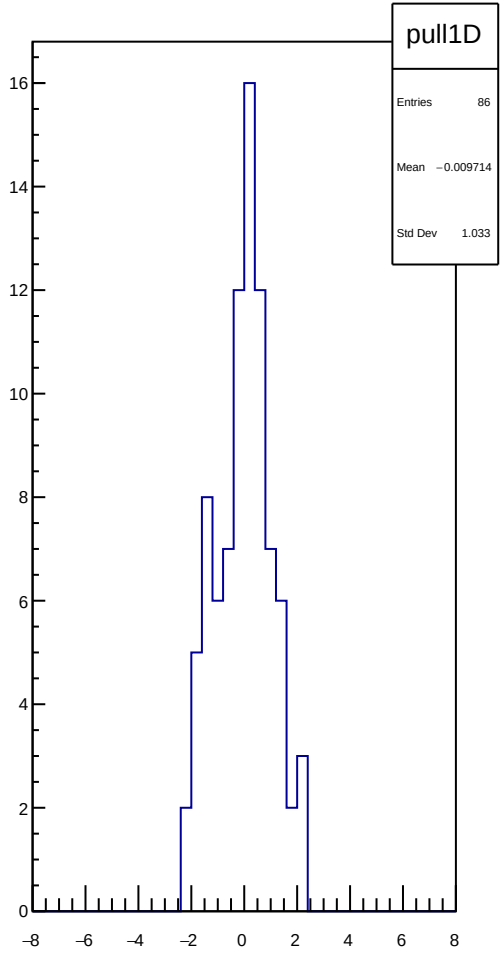

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 3227 / 85
p0 1274 ± 0.9829
1400
1350
1300
1250
1200
1150

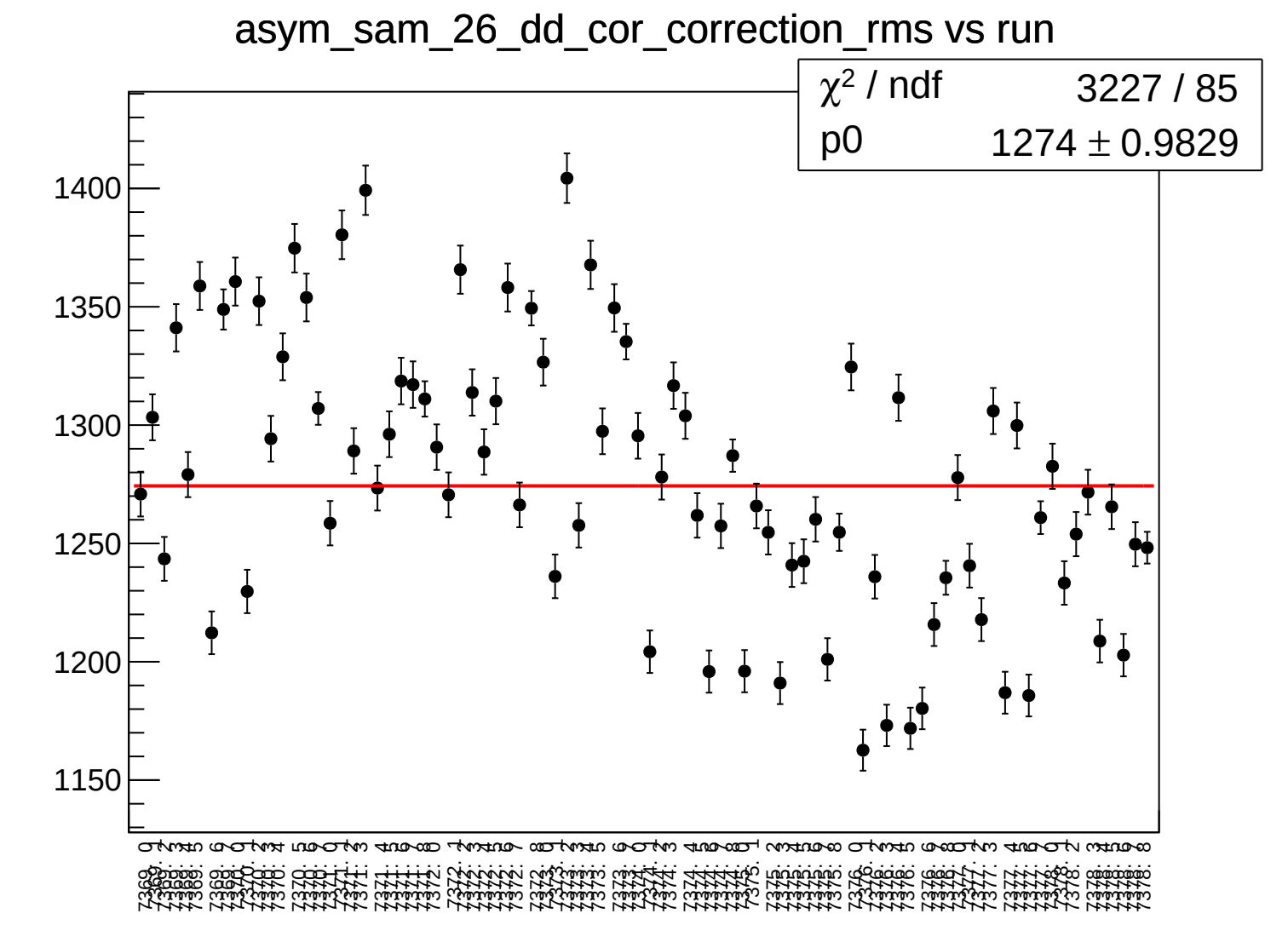

cor_asym_sam_26_dd_mean vs run
χ² / ndf 91.82 / 85
p0 −445.2 ± 230.1
pull
Entries 86
Mean −89.41
Std Dev 0

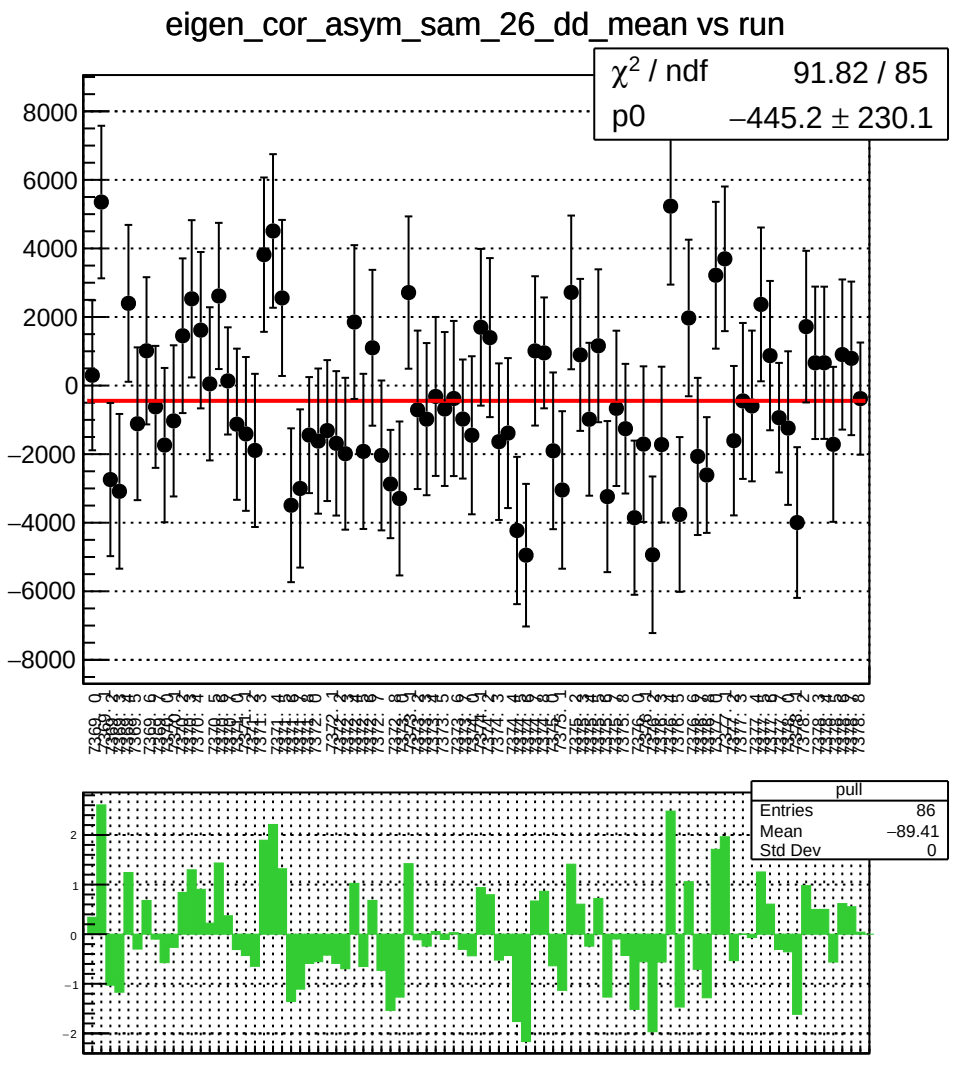

pull1D
Entries 86
Mean 0.01327
Std Dev 1.033

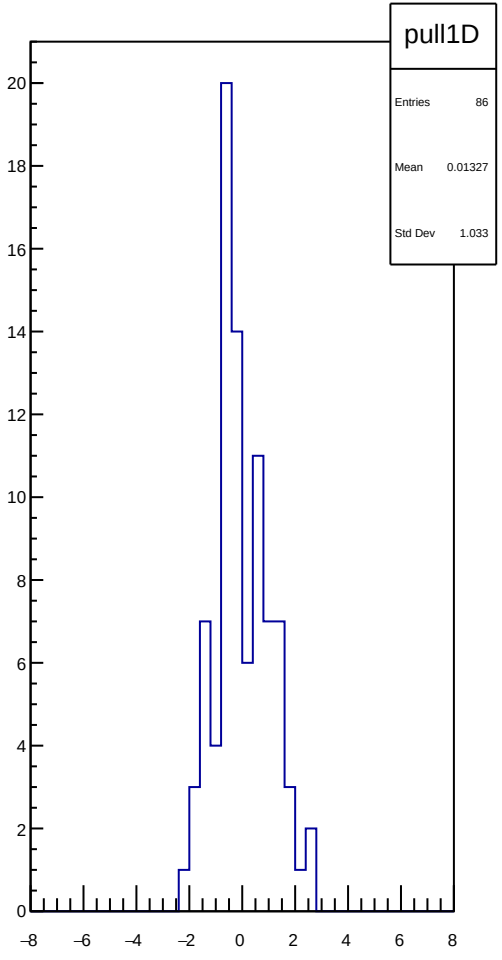

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1103 / 85
p0 211.1 ± 0.1627
220
215
210
205
200
195

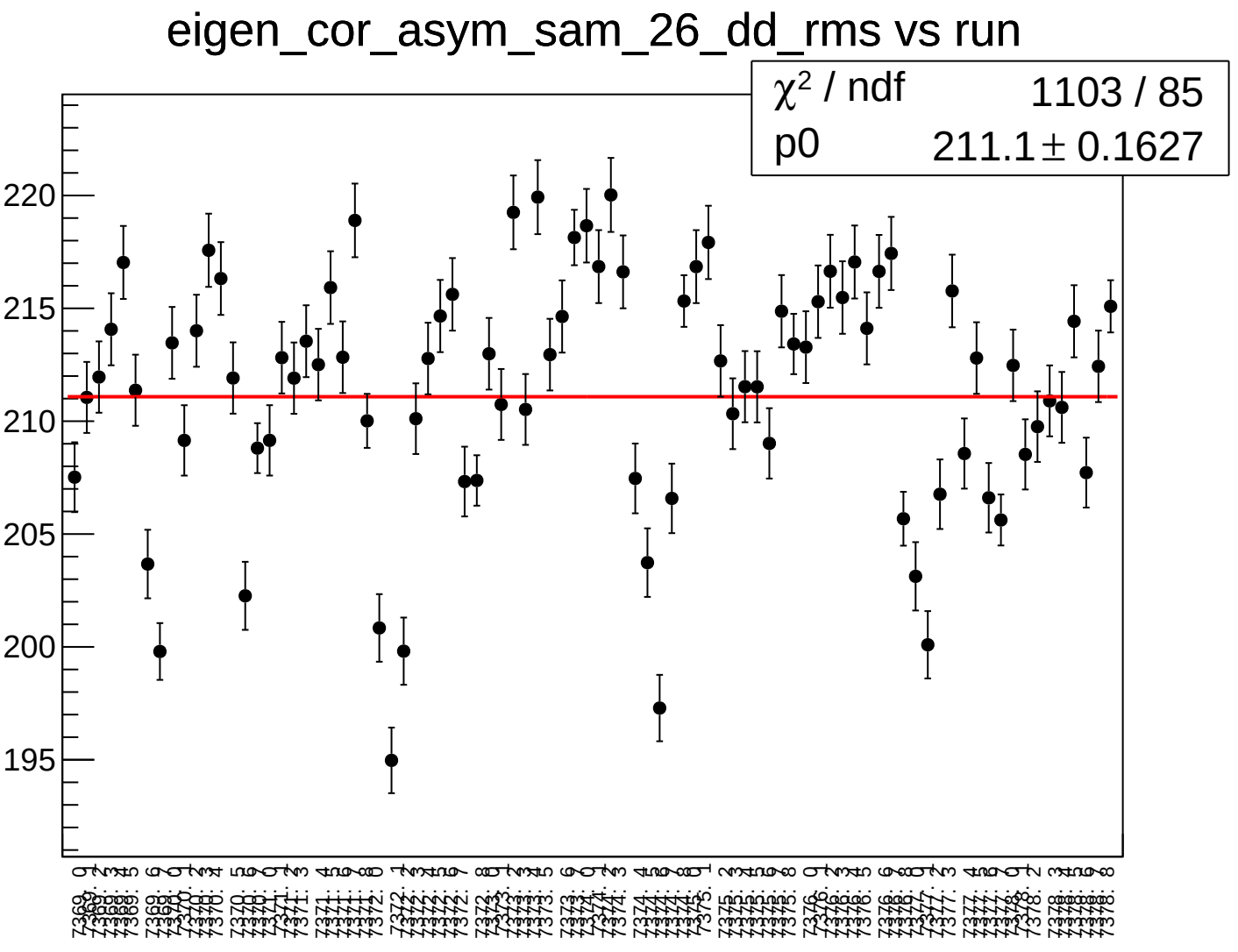

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 91.74 / 85
p0 742.8 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 141.9
Std Dev 0
2
1
0
−1
−2

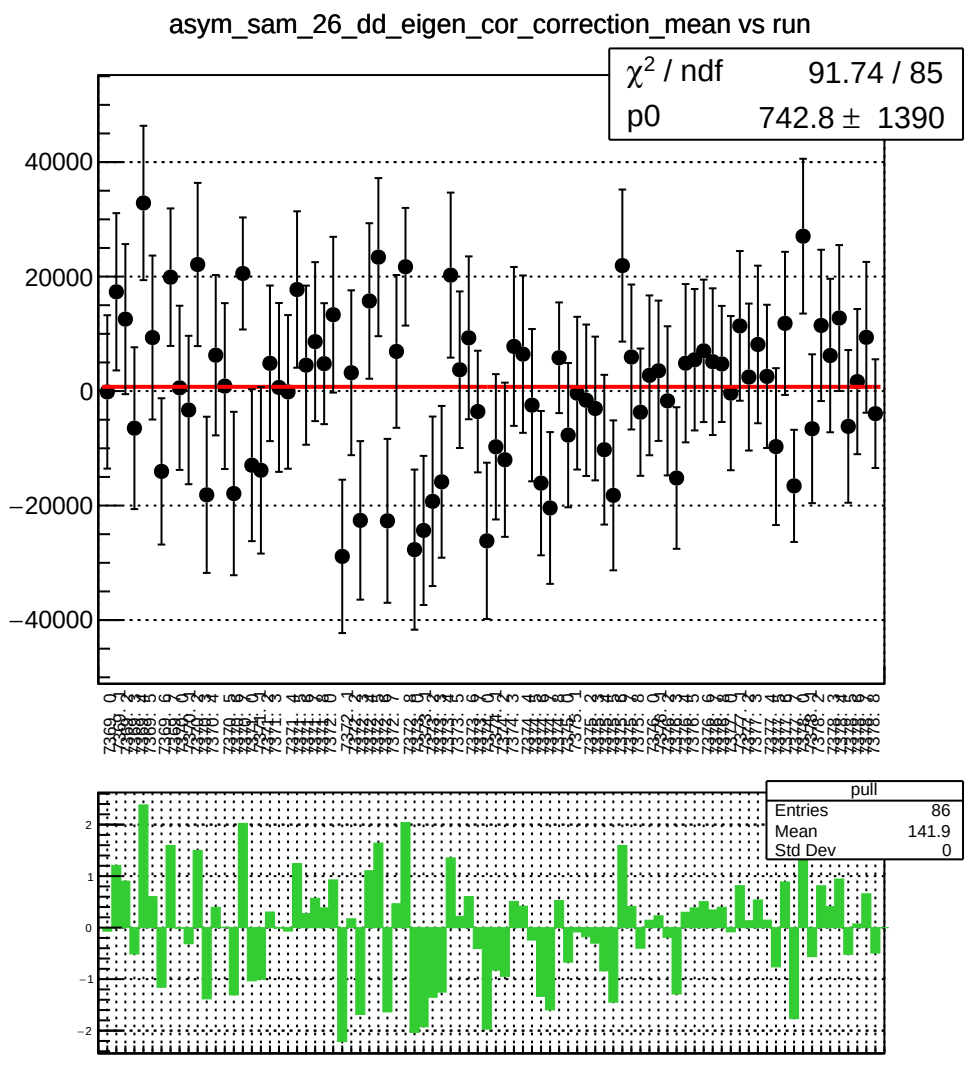

pull1D
Entries 86
Mean −0.009714
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

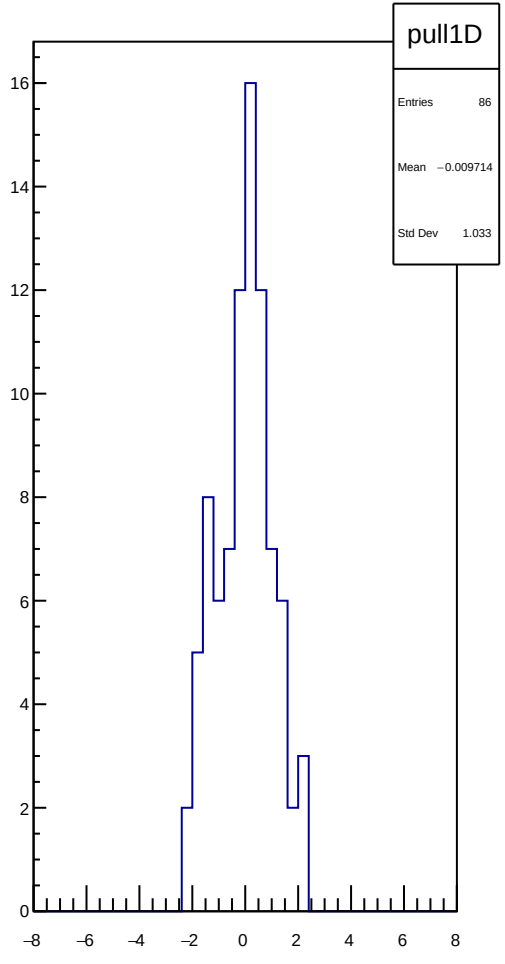

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 3227 / 85
p0 1274 ± 0.9829
1400
1350
1300
1250
1200
1150

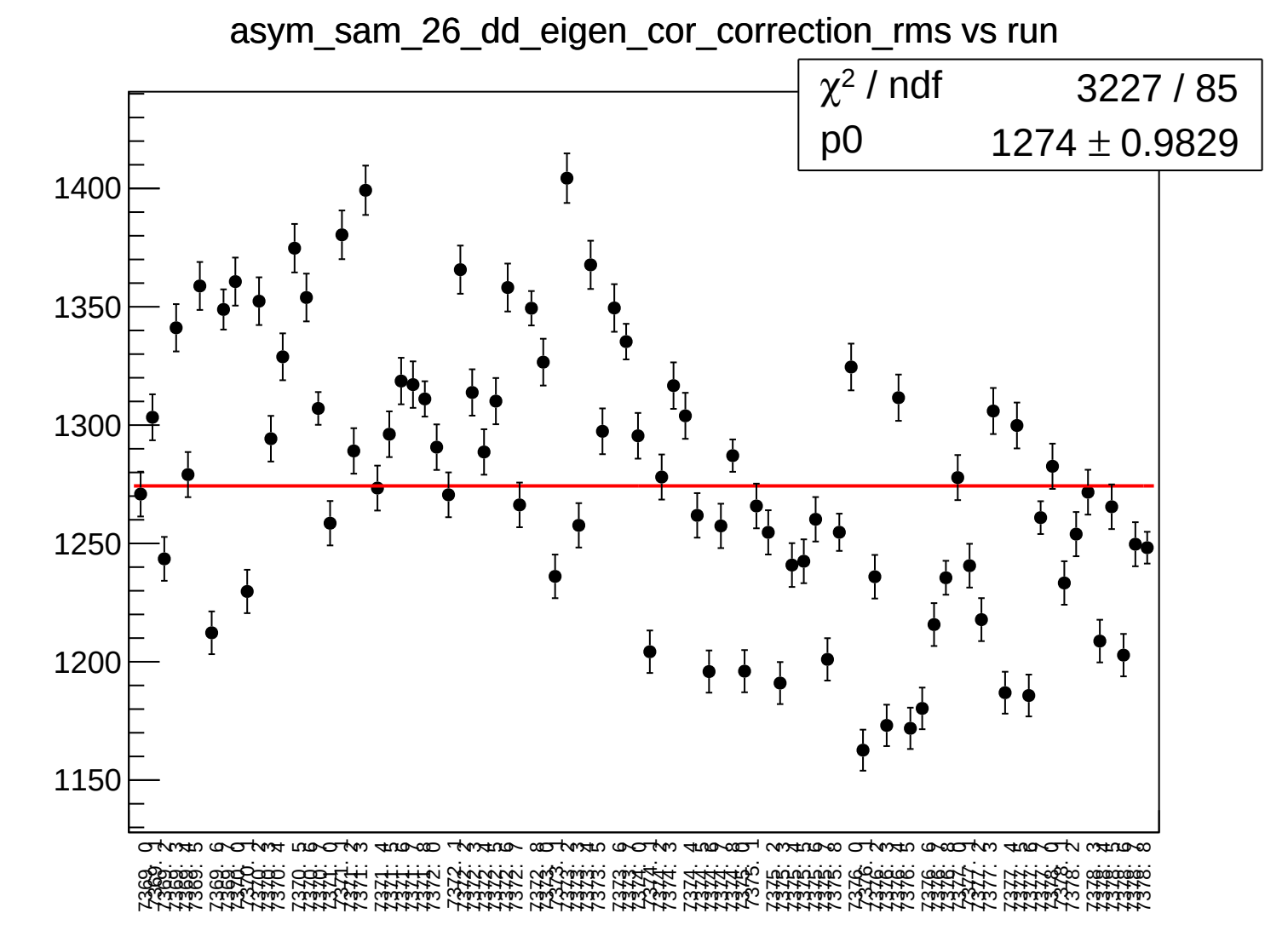

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 91.82 / 85
p0 −445.2 ± 230.1
pull
Entries 86
Mean −89.41
Std Dev 0

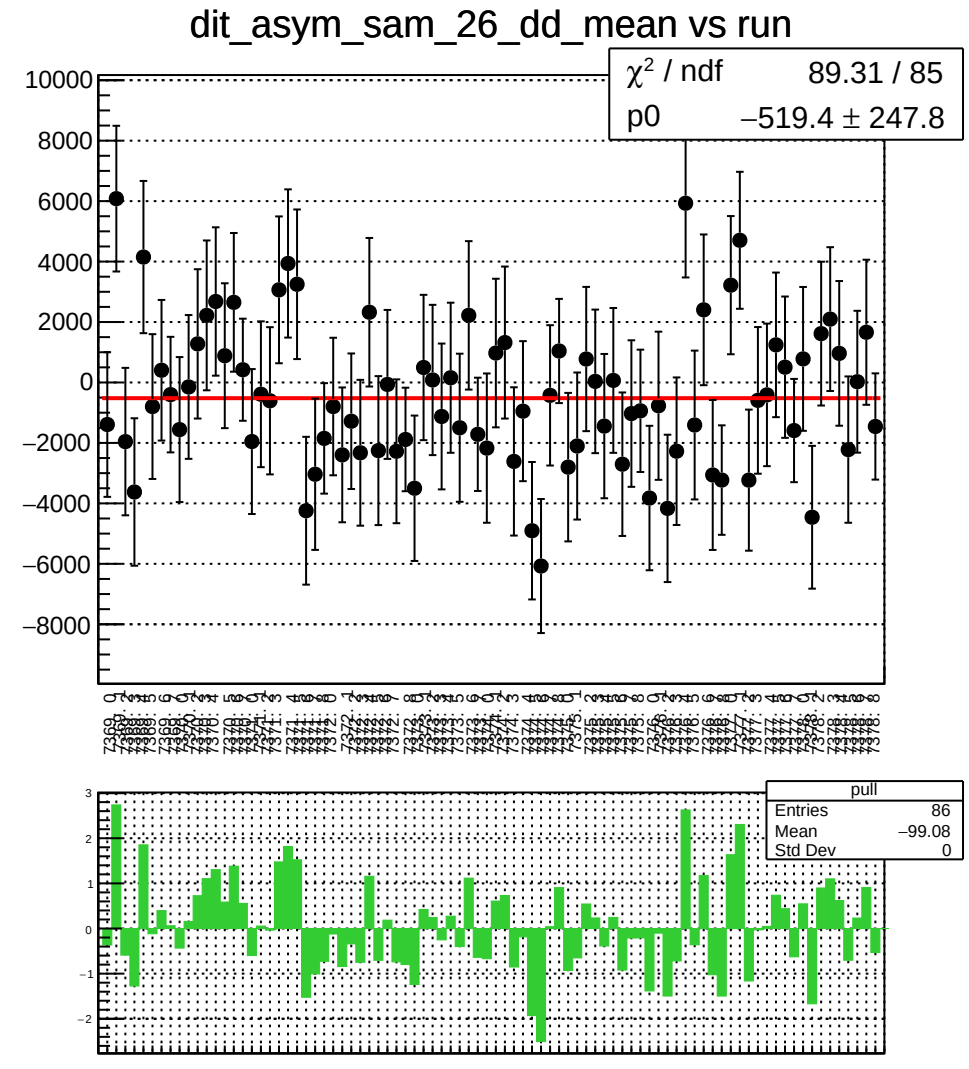

pull1D
Entries 86
Mean 0.01327
Std Dev 1.033

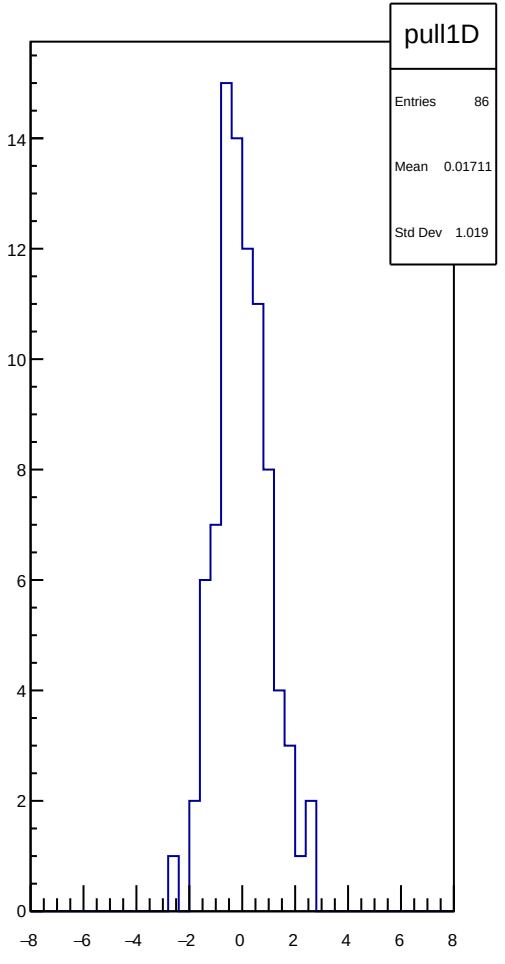

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1103 / 85
p0 211.1 ± 0.1627
220
215
210
205
200
195

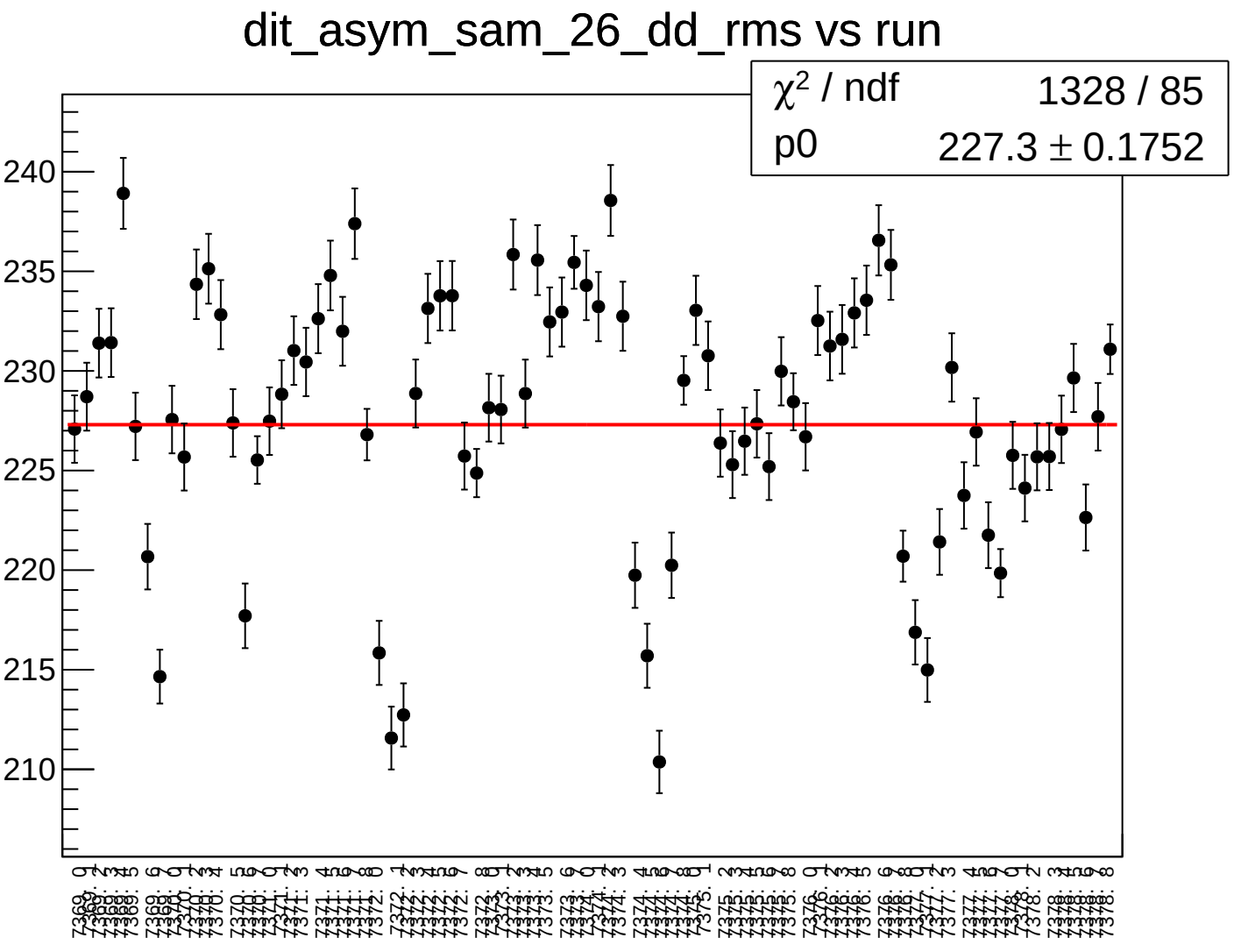

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.74 / 85
p0 742.8 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 141.9
Std Dev 0
2
1
0
−1
−2

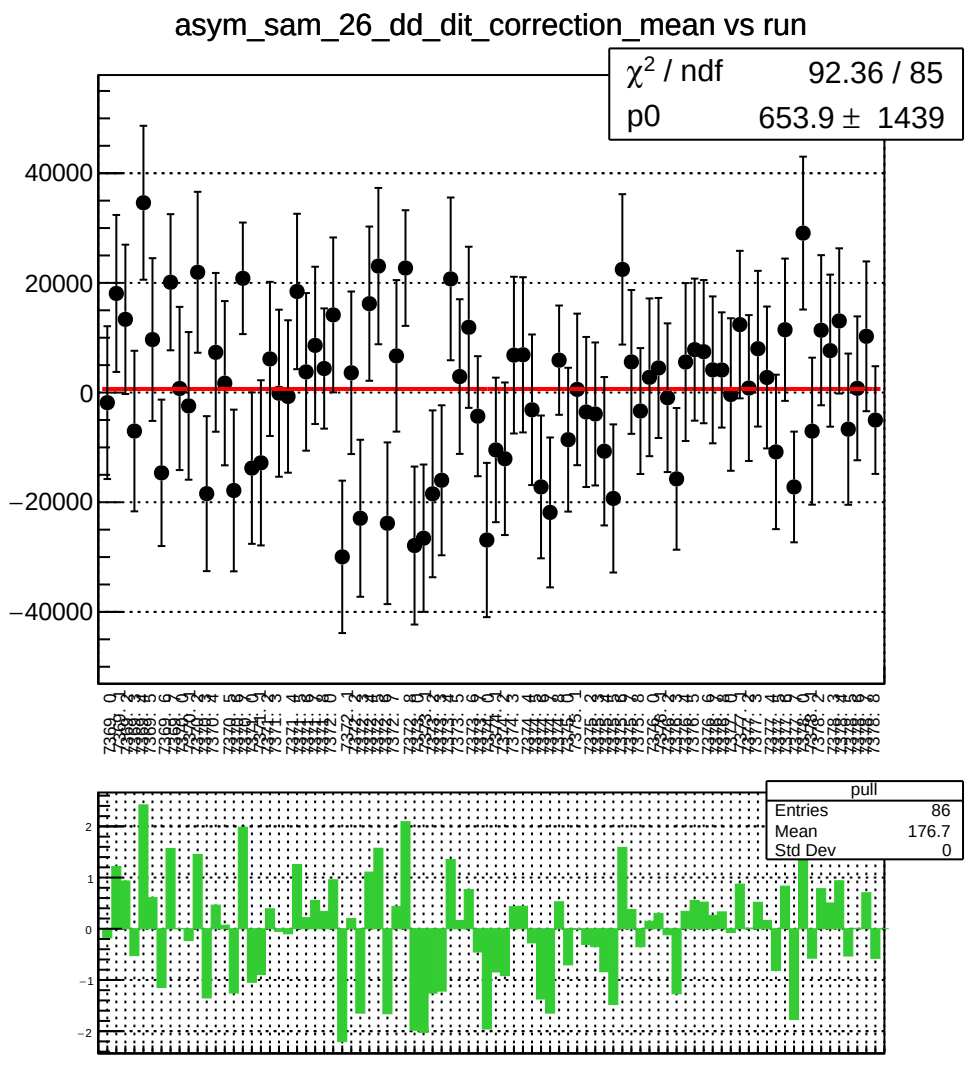

pull1D
Entries 86
Mean −0.009714
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

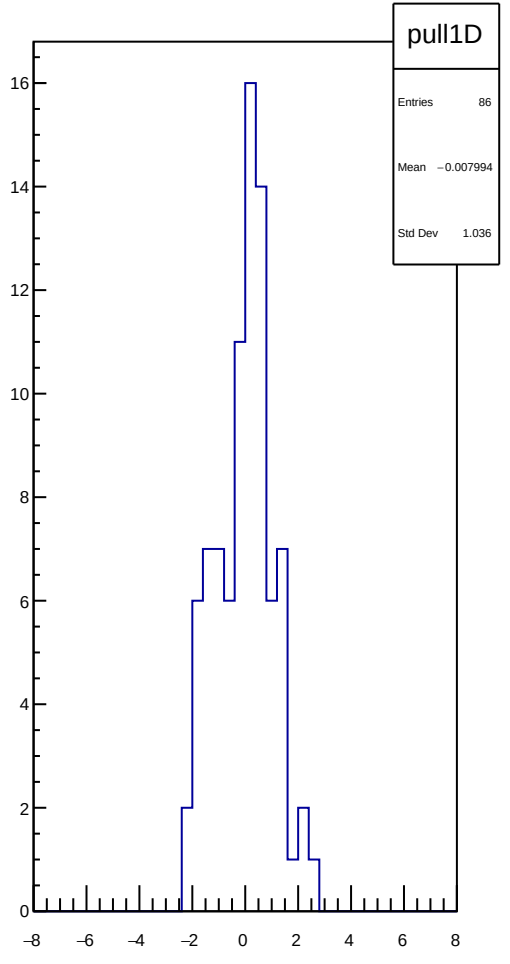

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3227 / 85
p0 1274 ± 0.9829
1400
1350
1300
1250
1200
1150

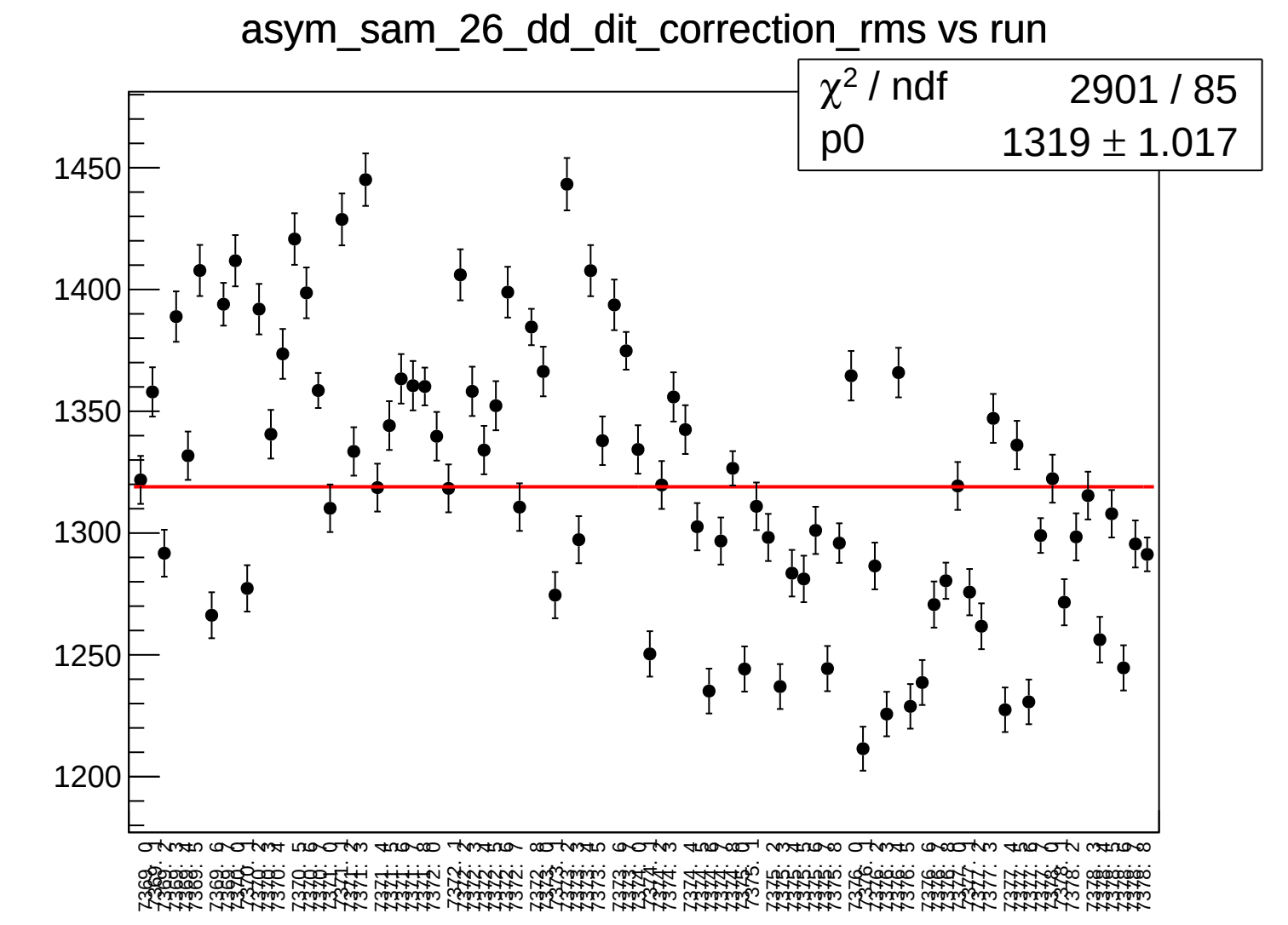

dit_asym_sam_26_dd_mean vs run
χ² / ndf 89.31 / 85
p0 −519.4 ± 247.8
pull
Entries 86
Mean −99.08
Std Dev 0

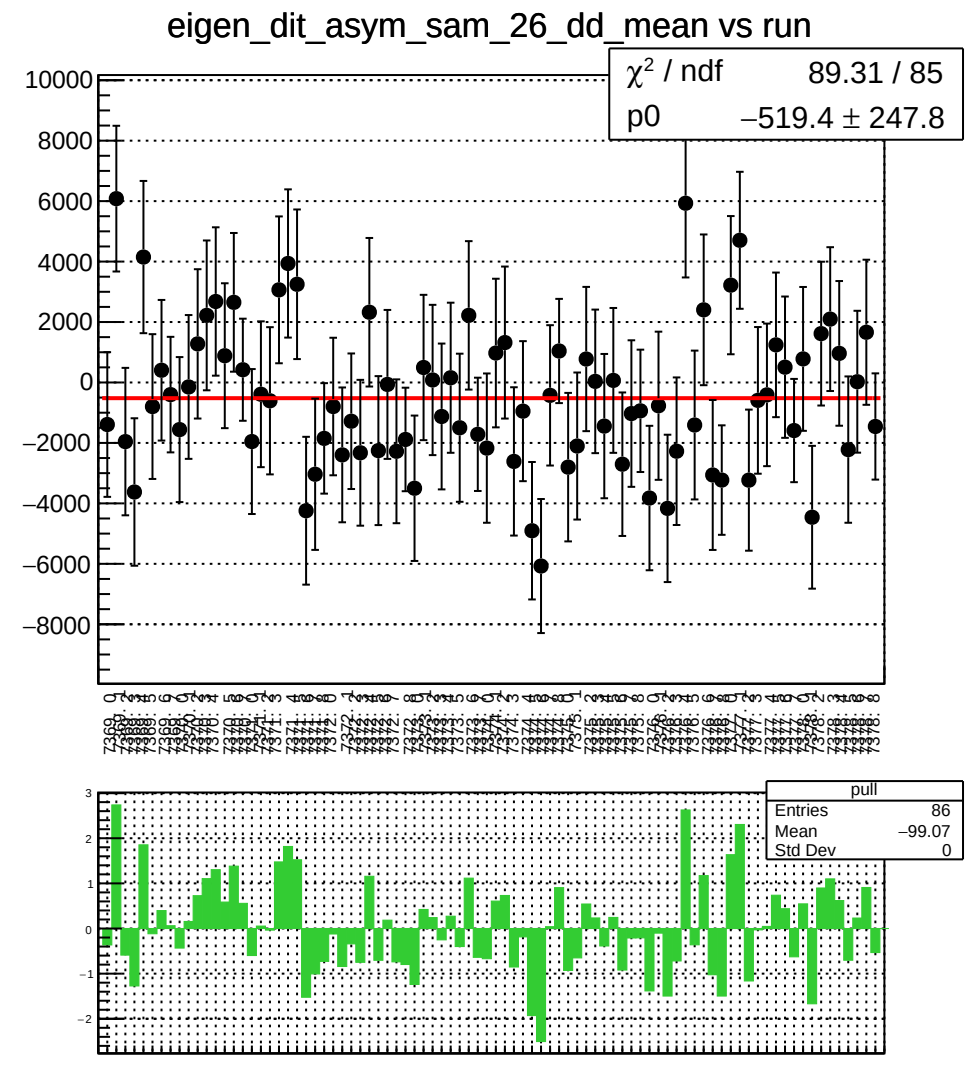

pull1D
Entries 86
Mean 0.01711
Std Dev 1.019

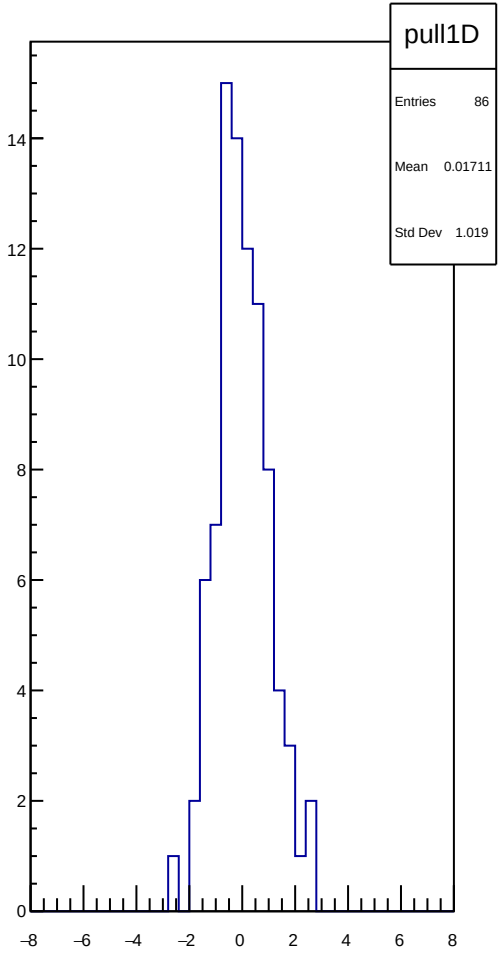

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1328 / 85
p0 227.3 ± 0.1752
240
235
230
225
220
215
210

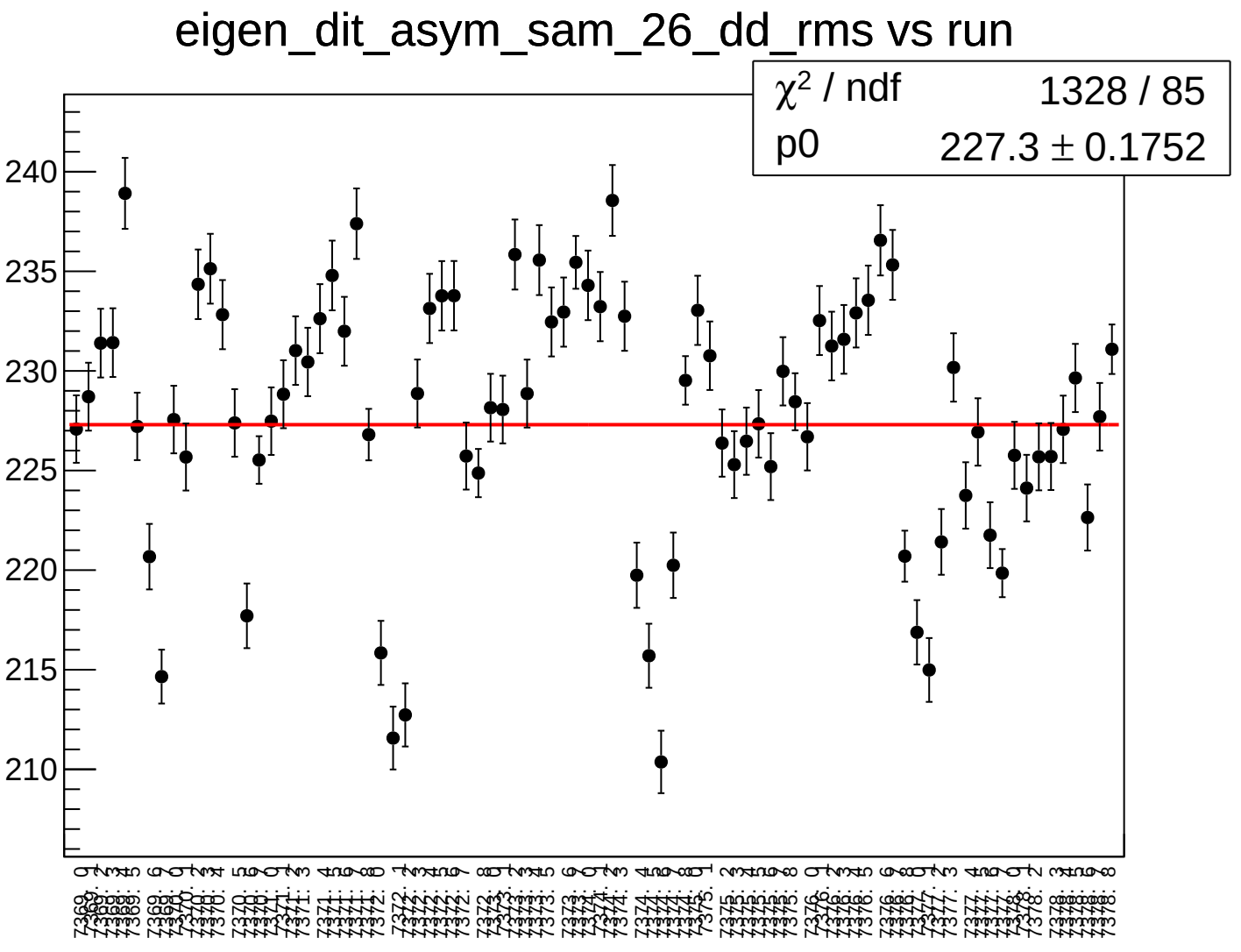

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 92.36 / 85
p0 653.9 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 176.7
Std Dev 0
2
1
0
−1
−2

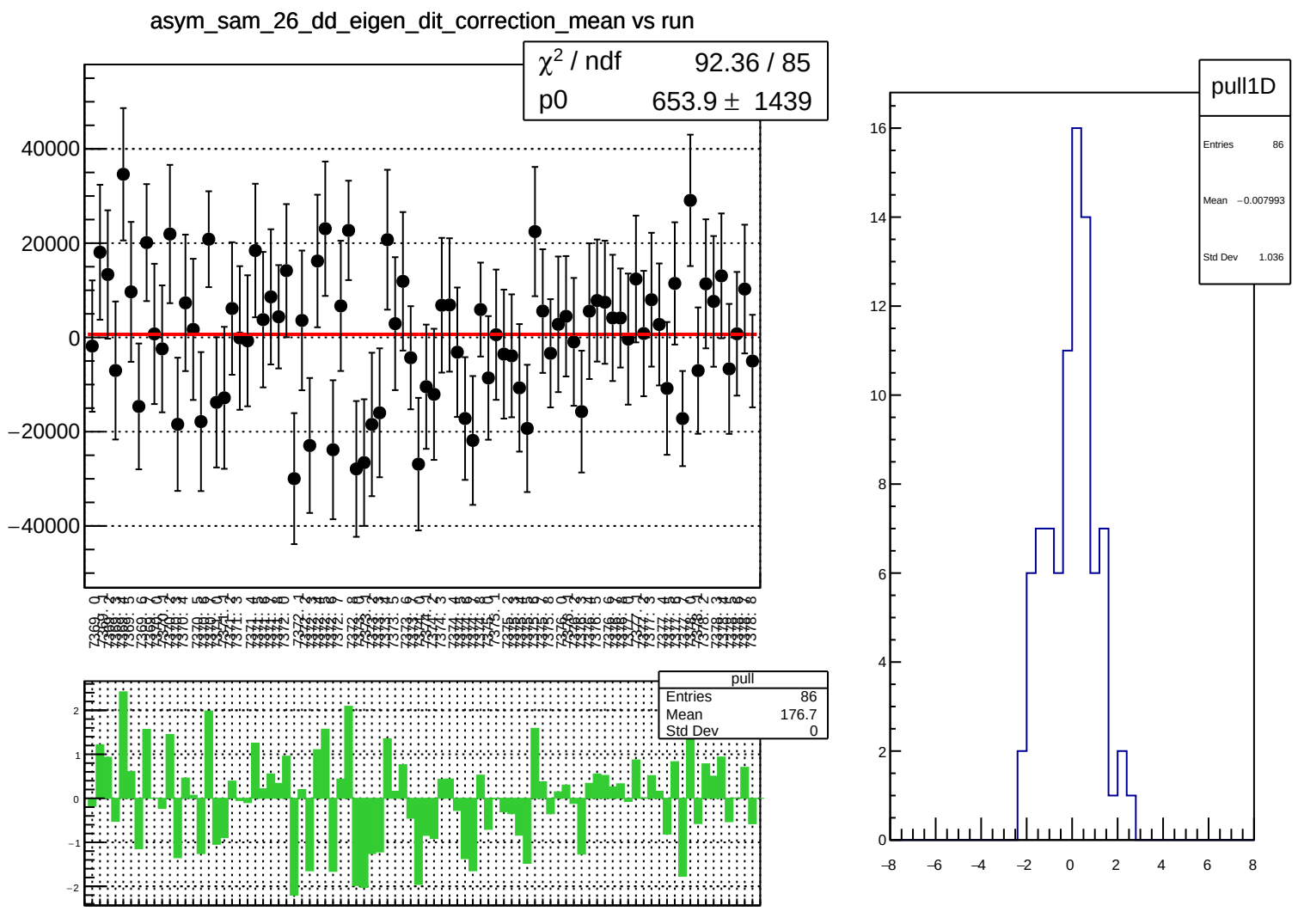

pull1D
Entries 86
Mean −0.007994
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

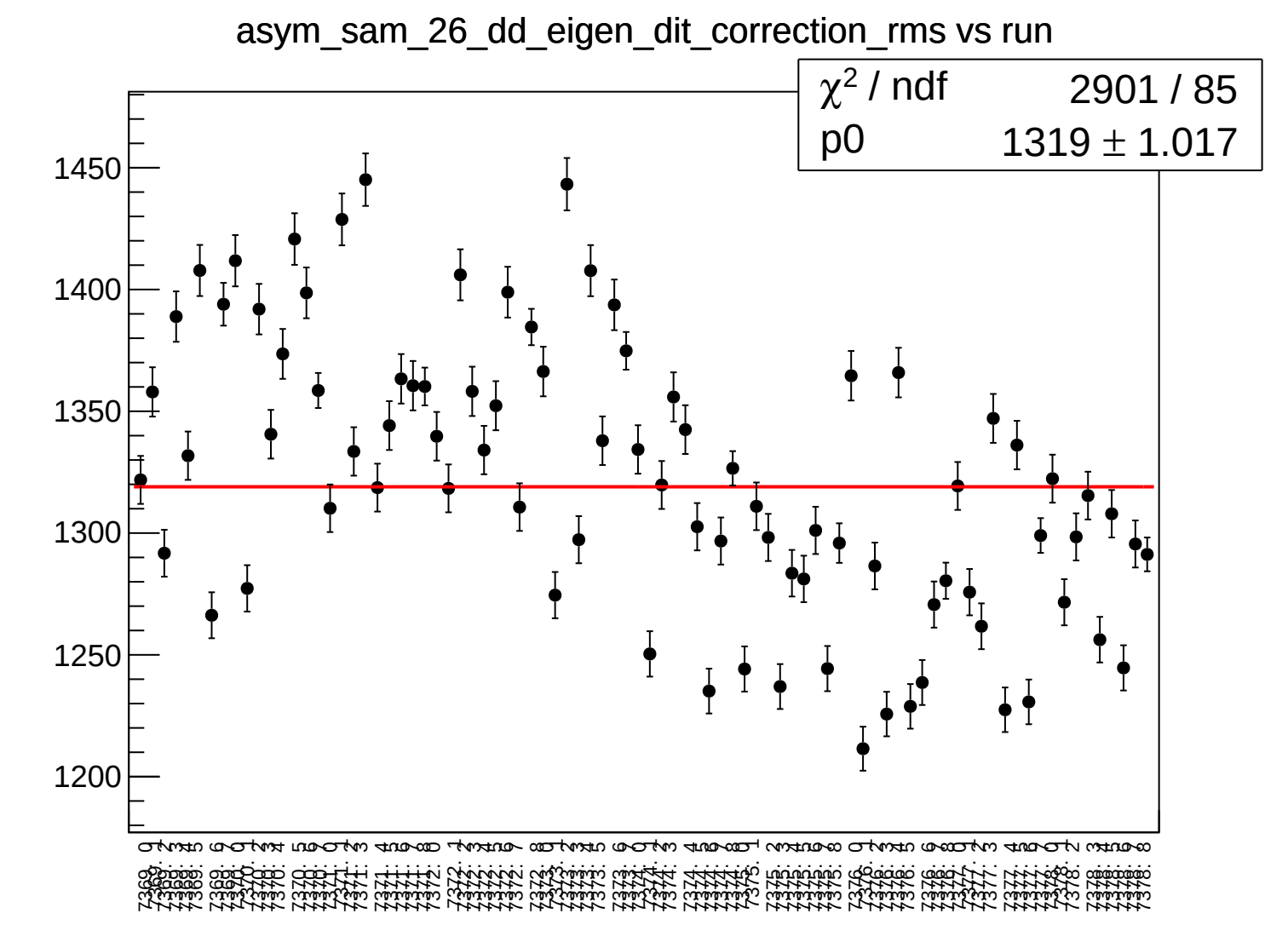

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2901 / 85
p0 1319 ± 1.017
1450
1400
1350
1300
1250
1200

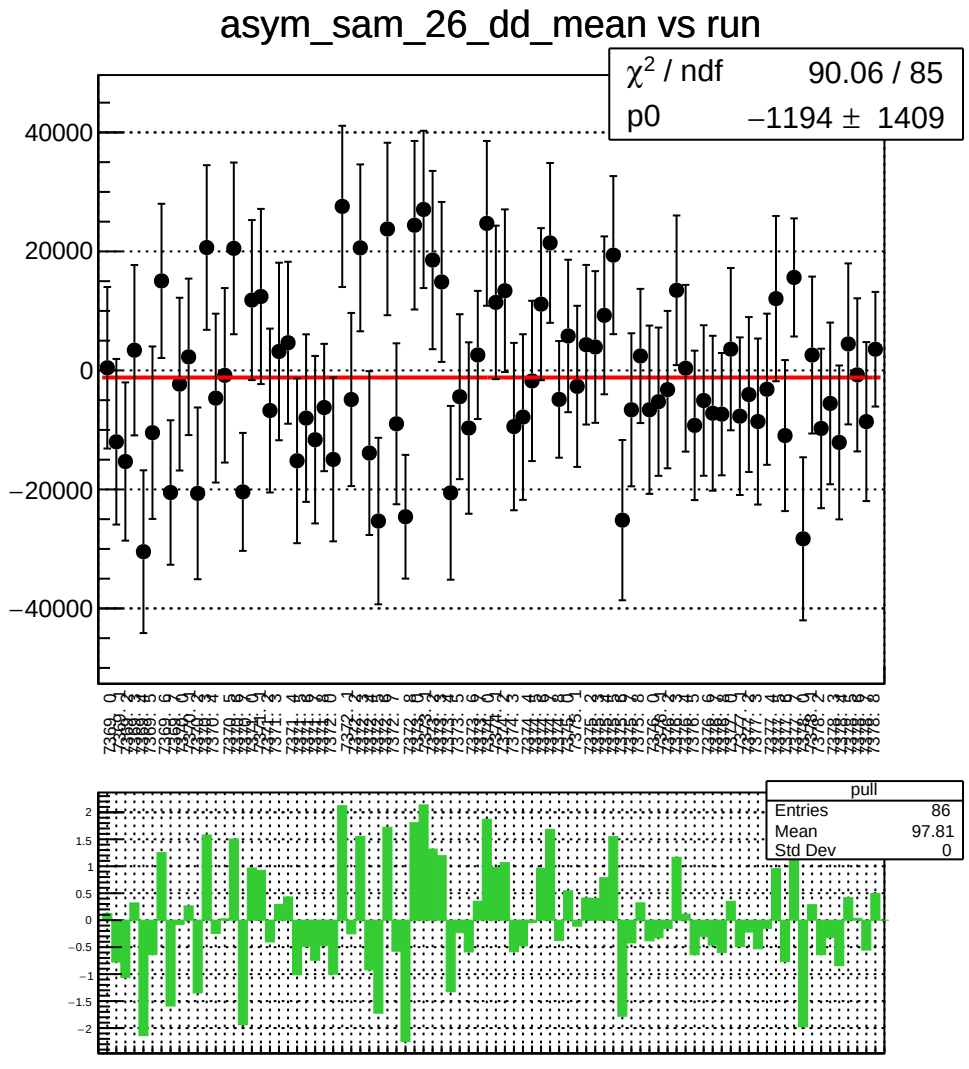

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 89.31 / 85
p0 −519.4 ± 247.8
pull
Entries 86
Mean −99.07
Std Dev 0

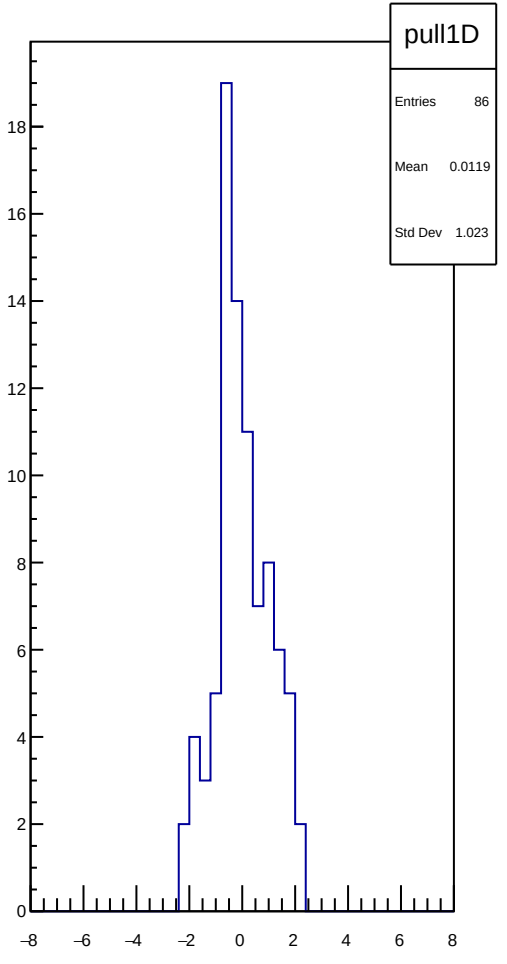

pull1D
Entries 86
Mean 0.01711
Std Dev 1.019

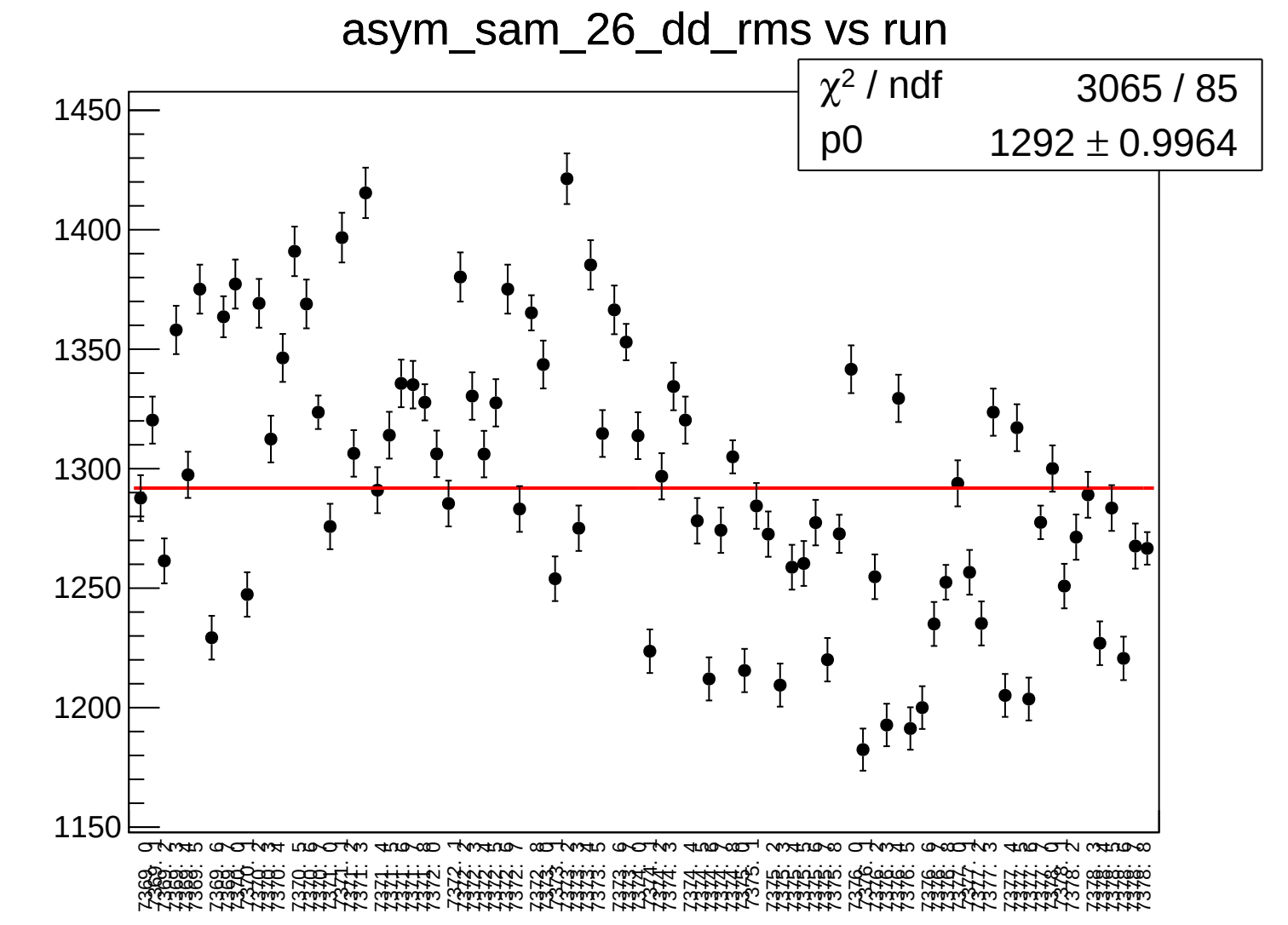

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1328 / 85
p0 227.3 ± 0.1752
240
235
230
225
220
215
210

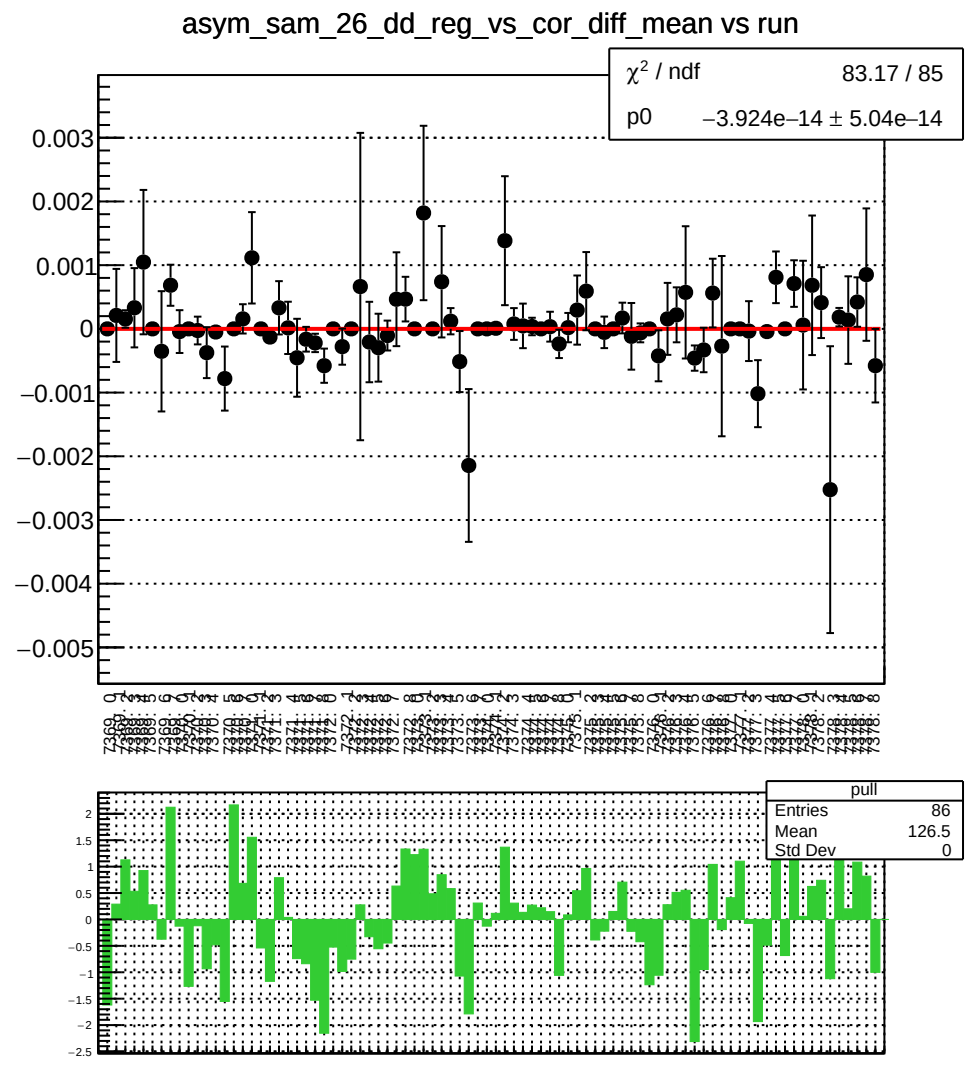

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.36 / 85
p0 653.9 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 176.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.007993
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

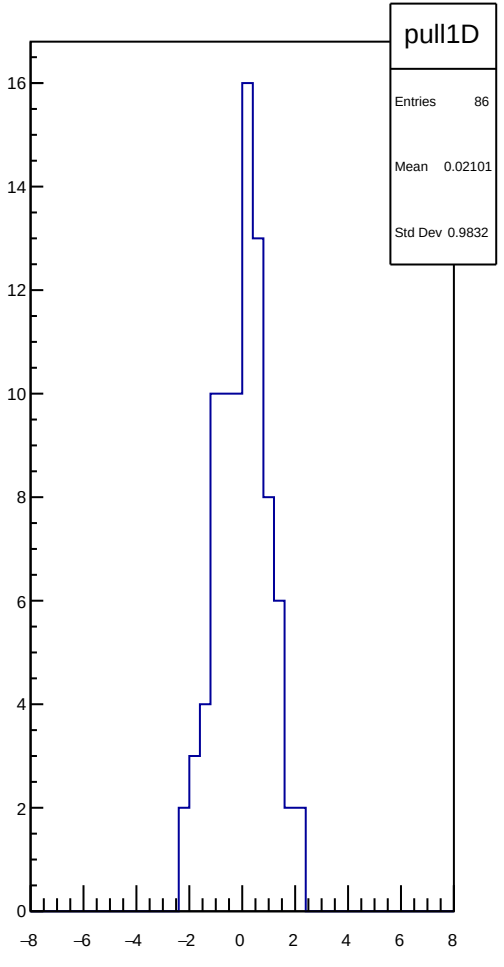

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2901 / 85
p0 1319 ± 1.017
1450
1400
1350
1300
1250
1200

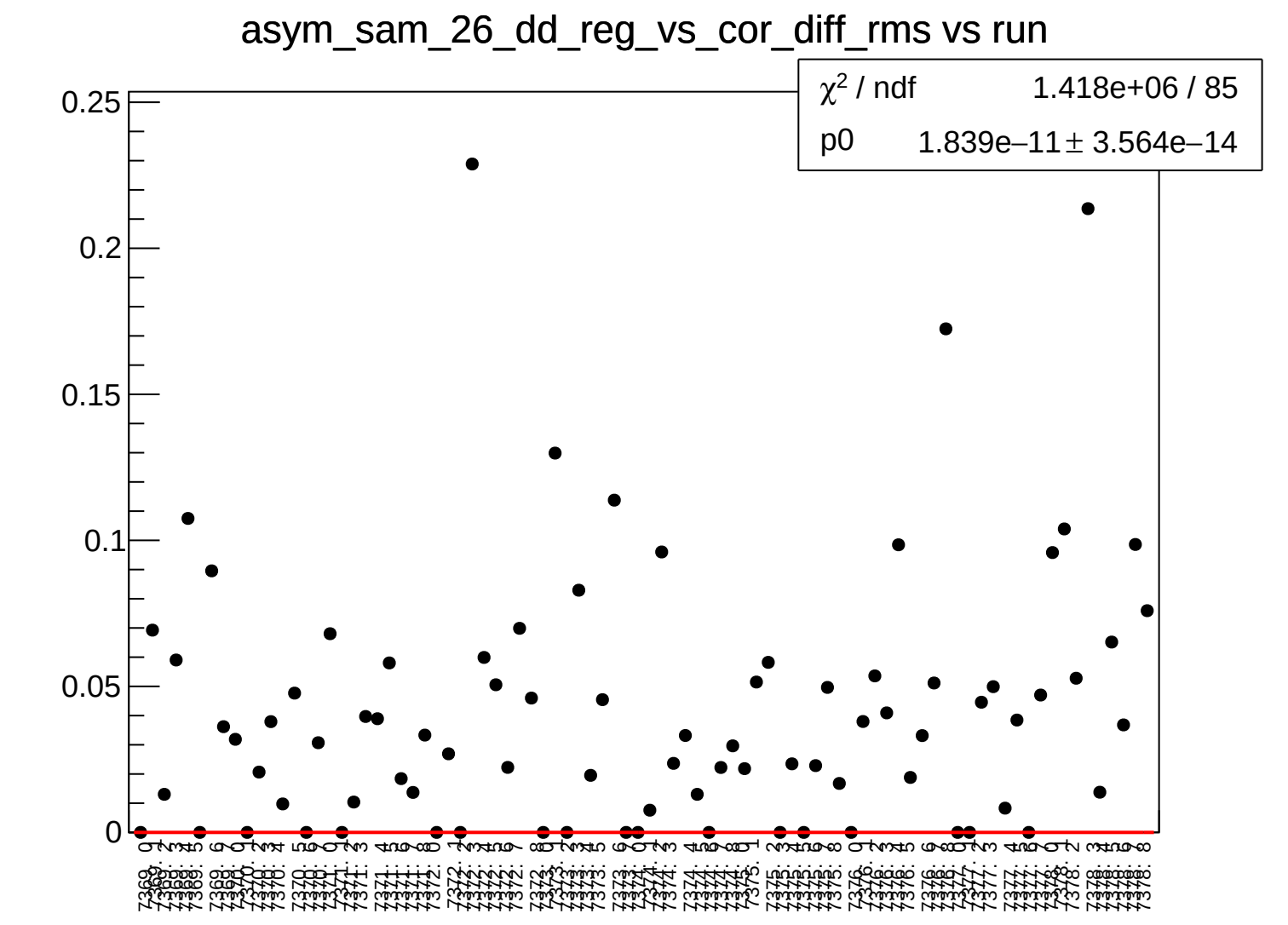

asym_sam_26_dd_mean vs run
χ² / ndf 90.06 / 85
p0 −1194 ± 1409
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 97.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

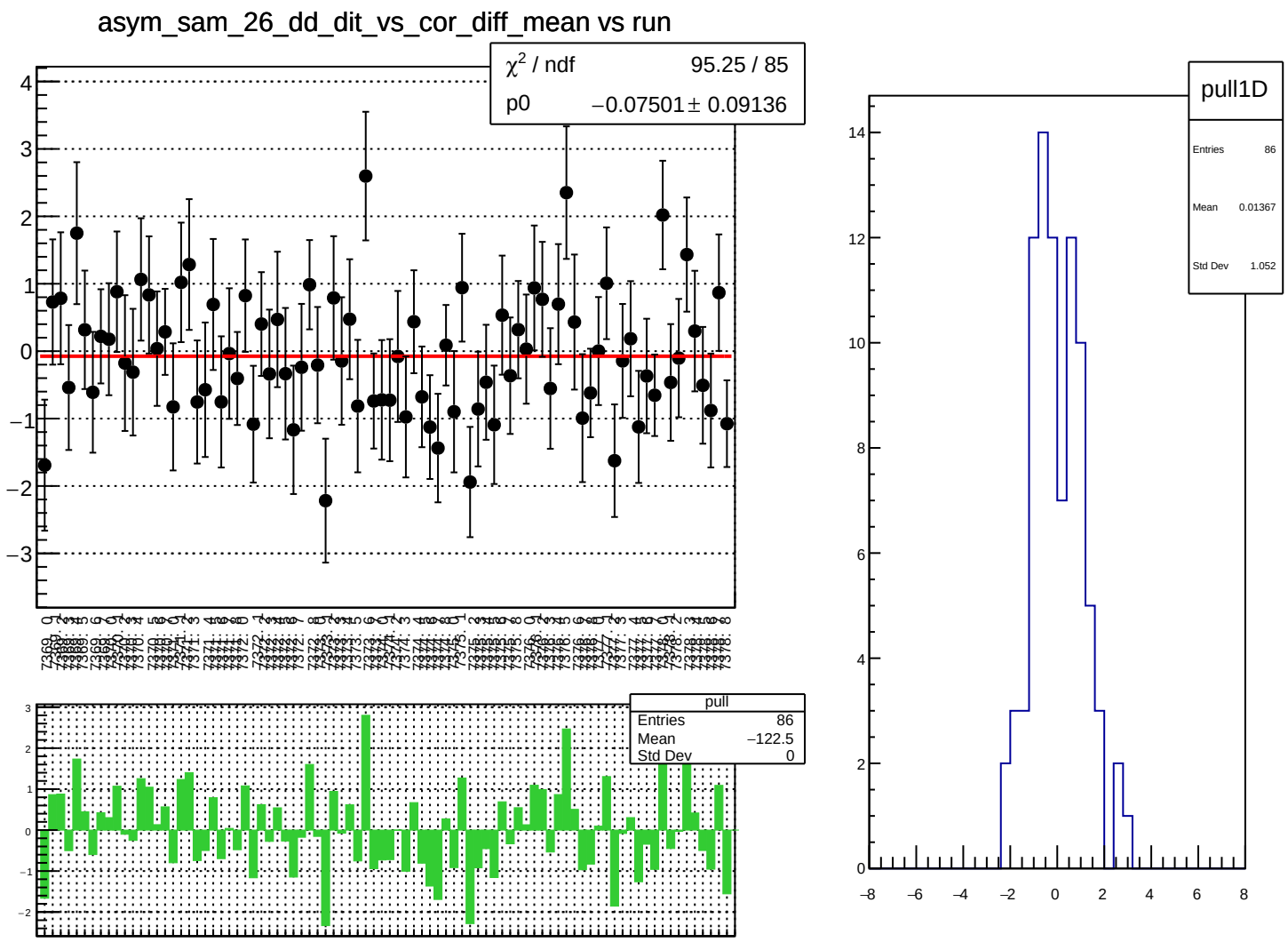

pull1D
Entries 86
Mean 0.0119
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

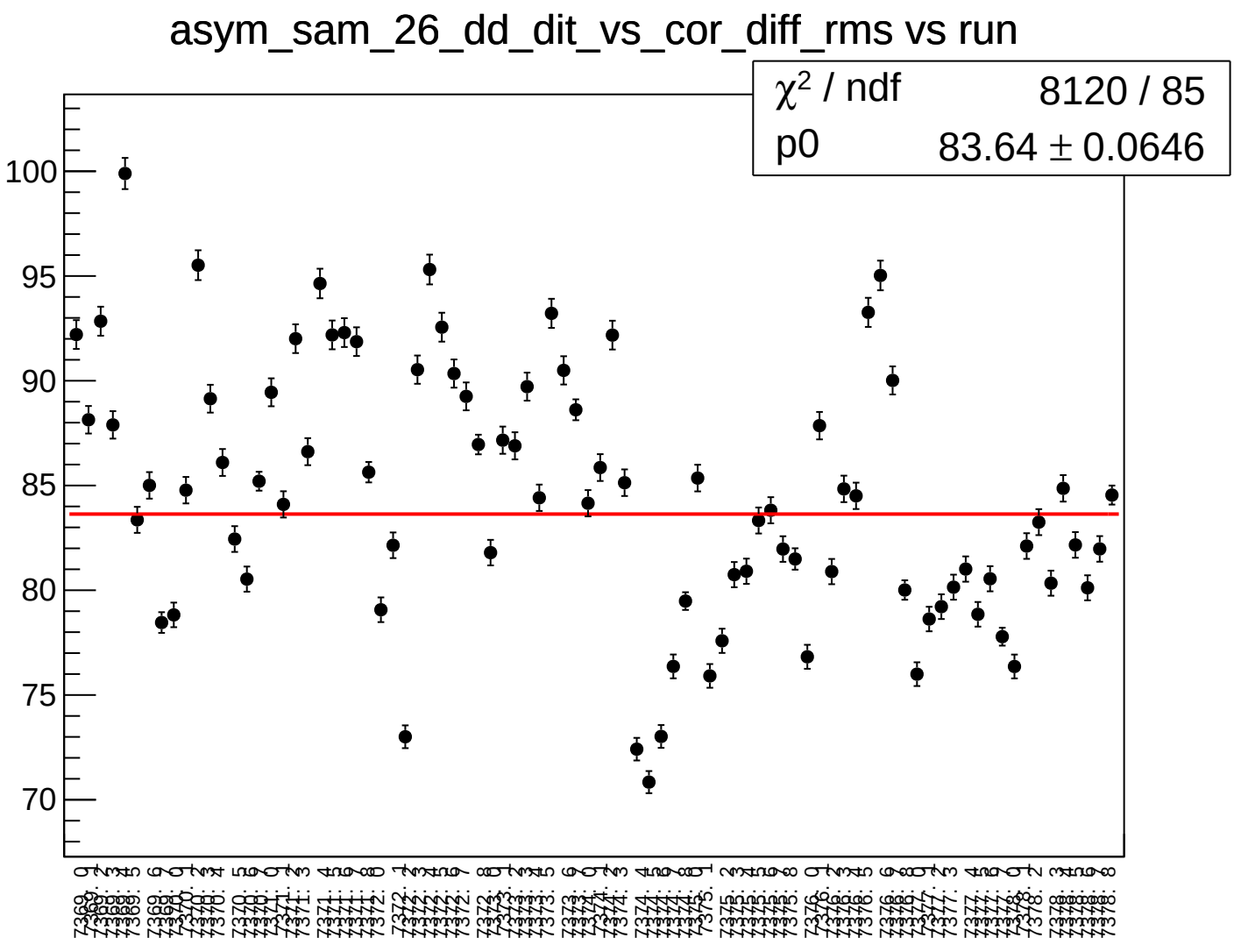

asym_sam_26_dd_rms vs run
χ² / ndf 3065 / 85
p0 1292 ± 0.9964
1450
1400
1350
1300
1250
1200
1150

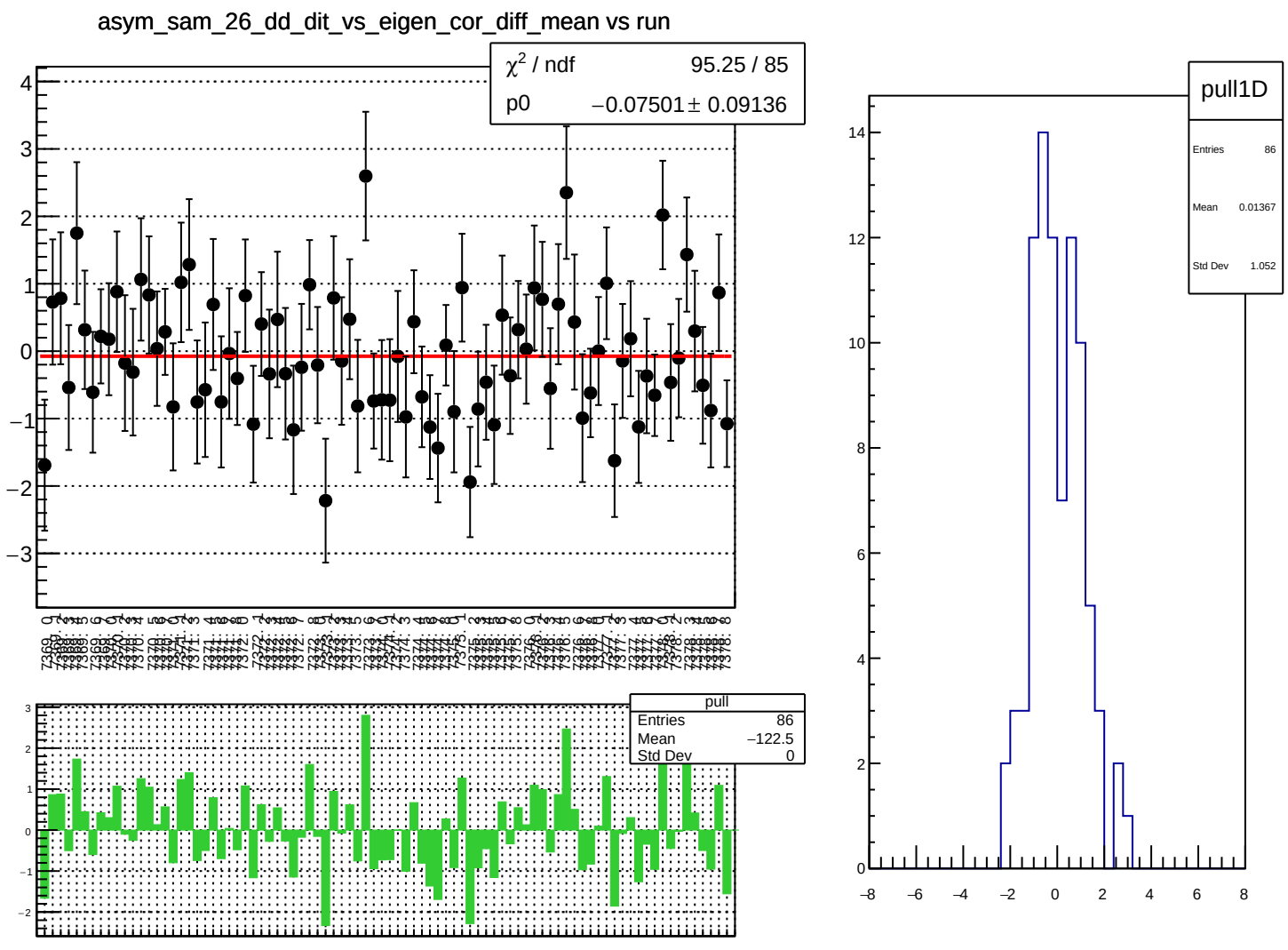

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.17 / 85
p0 −3.924e−14 ± 5.04e−14
pull
Entries 86
Mean 126.5
Std Dev 0

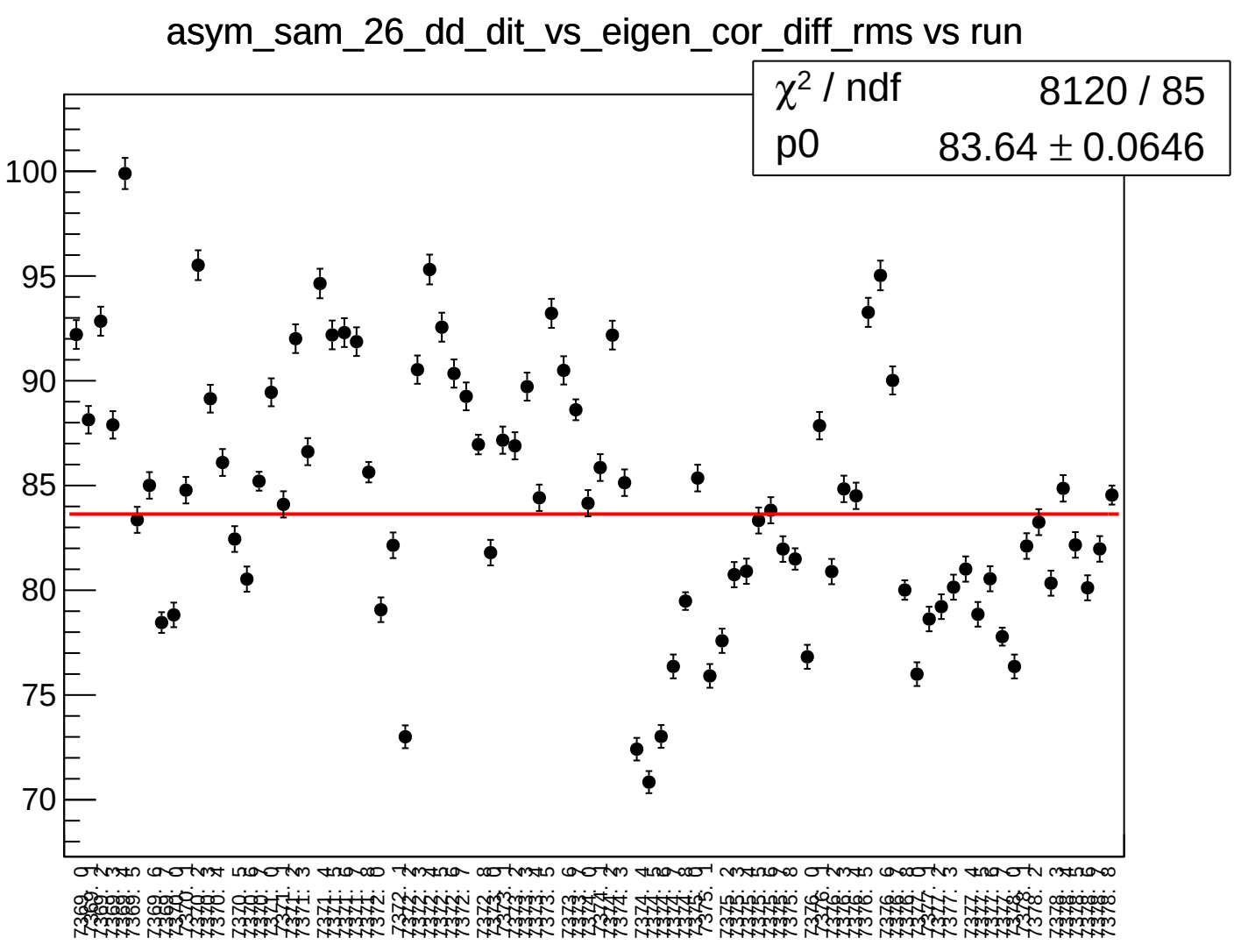

pull1D
Entries 86
Mean 0.02101
Std Dev 0.9832

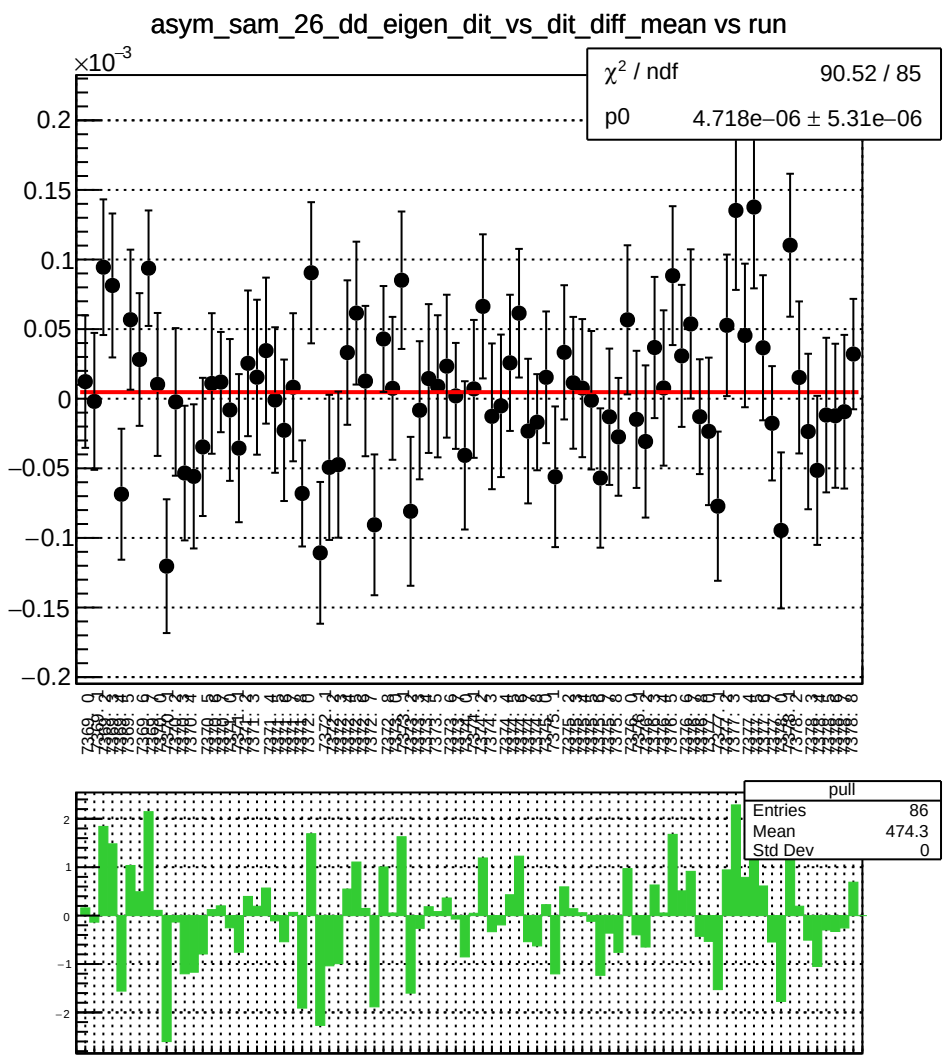

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.418e+06 / 85
p0 1.839e−11 ± 3.564e−14
0.25
0.2
0.15
0.1
0.05
0

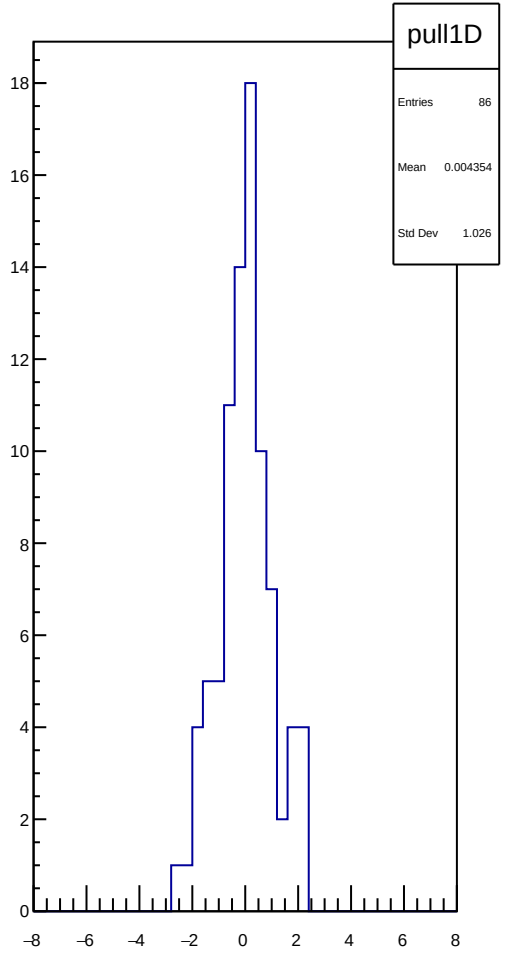

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.25 / 85
p0 −0.07501 ± 0.09136
pull
Entries 86
Mean −122.5
Std Dev 0
pull1D
Entries 86
Mean 0.01367
Std Dev 1.052

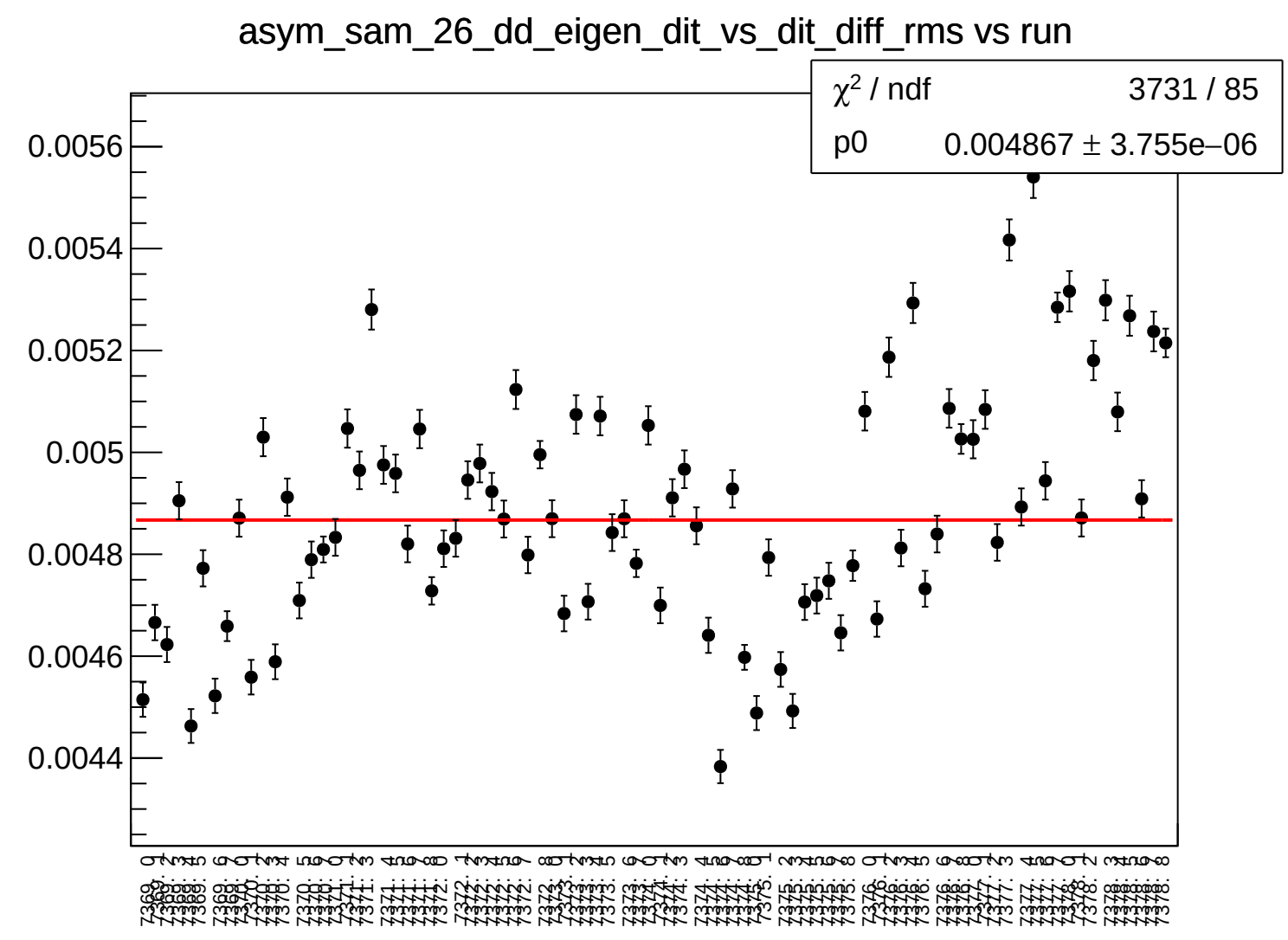

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8120 / 85
p0 83.64 ± 0.0646
100
95
90
85
80
75
70

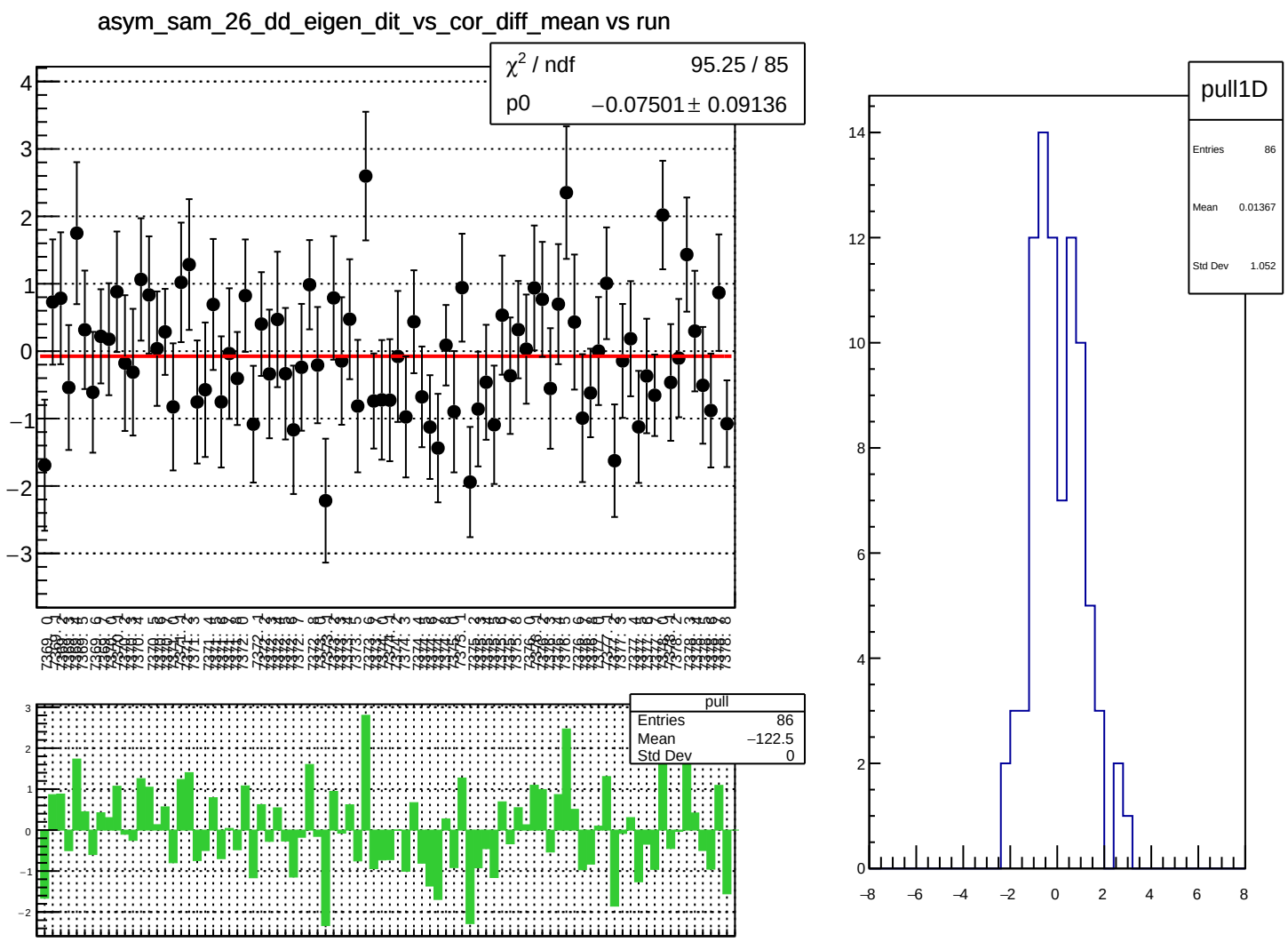

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.25 / 85
p0 −0.07501 ± 0.09136
pull
Entries 86
Mean −122.5
Std Dev 0
pull1D
Entries 86
Mean 0.01367
Std Dev 1.052

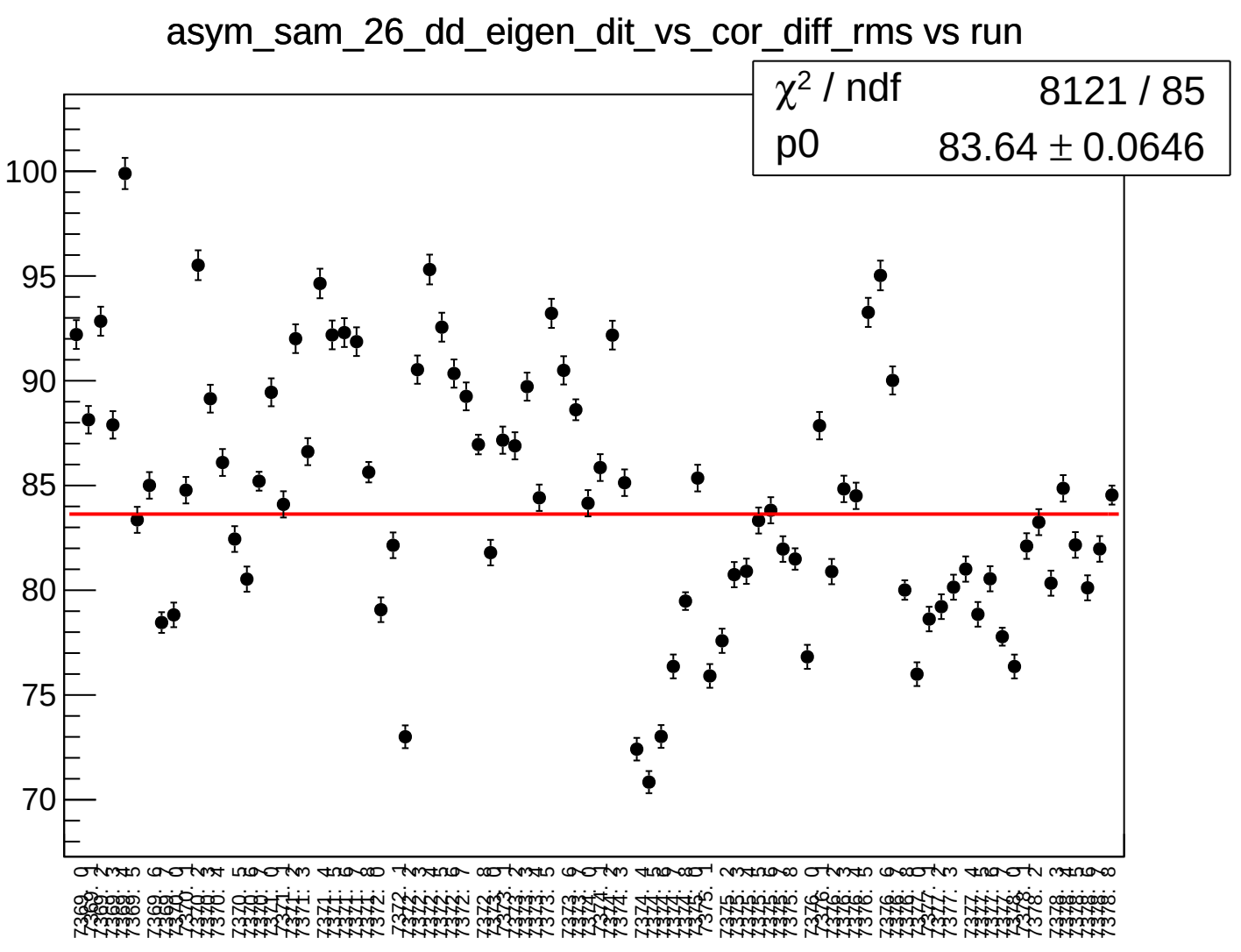

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8120 / 85
p0 83.64 ± 0.0646
100
95
90
85
80
75
70

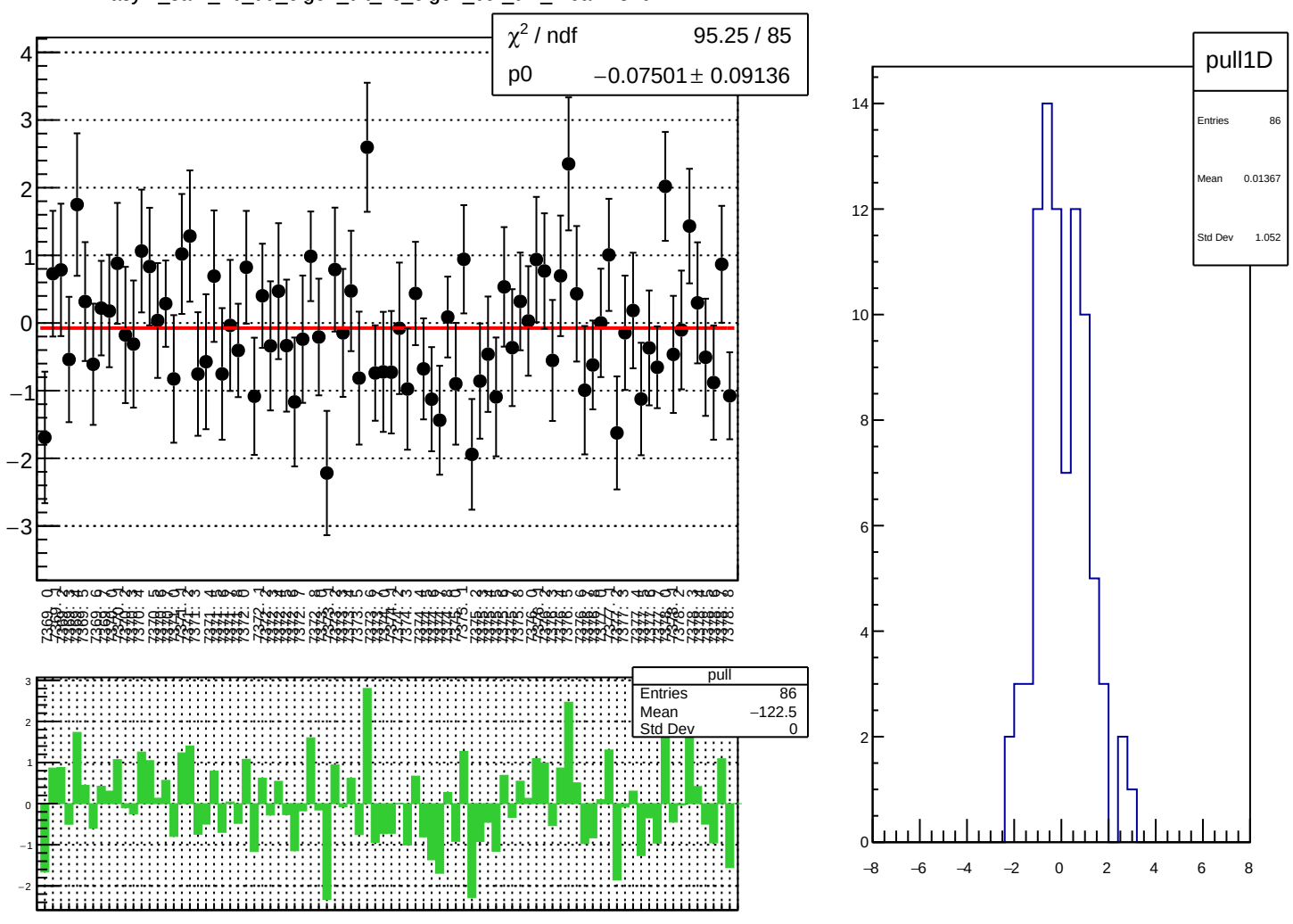

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.52 / 85
p0 4.718e−06 ± 5.31e−06
pull
Entries 86
Mean 474.3
Std Dev 0

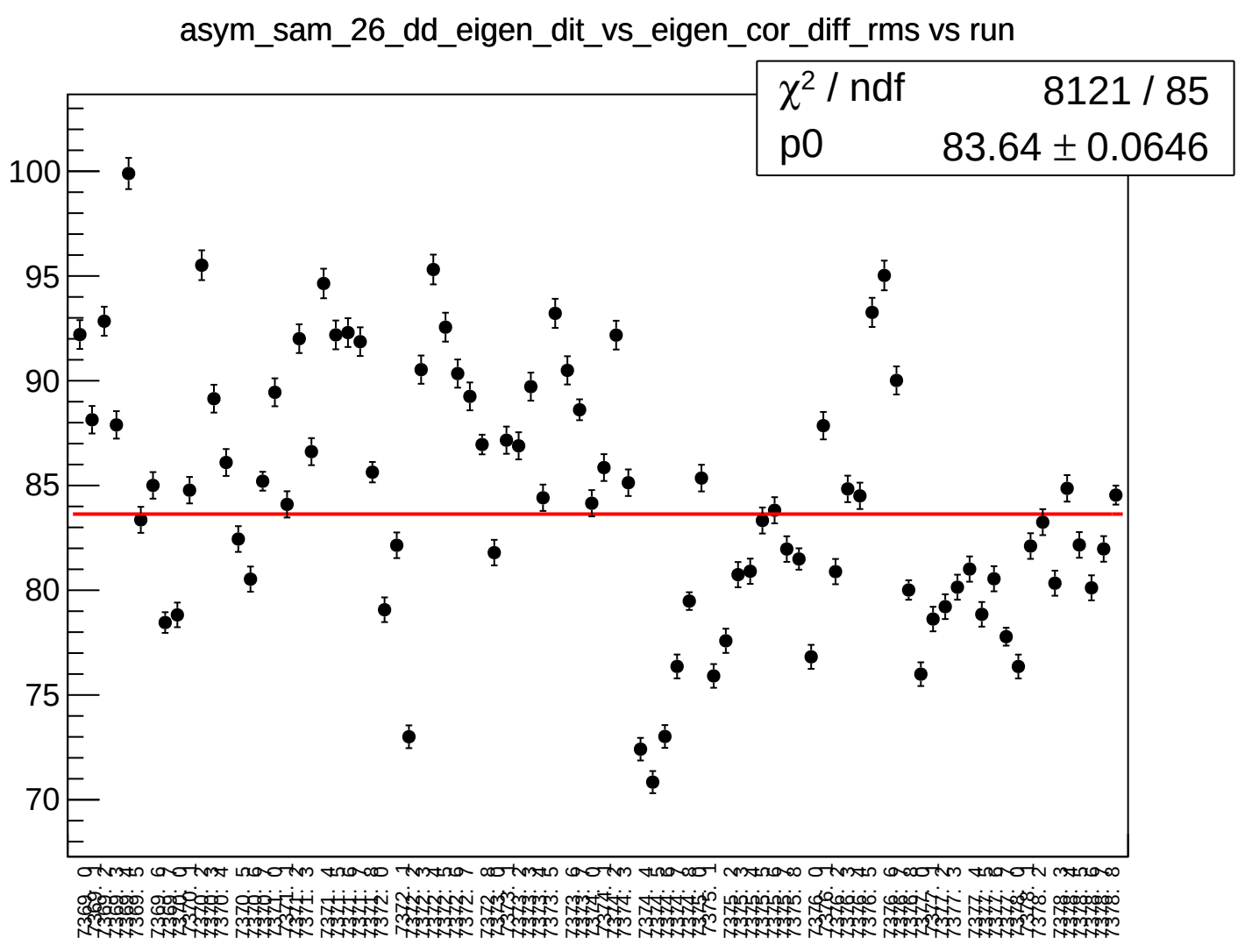

pull1D
Entries 86
Mean 0.004354
Std Dev 1.026

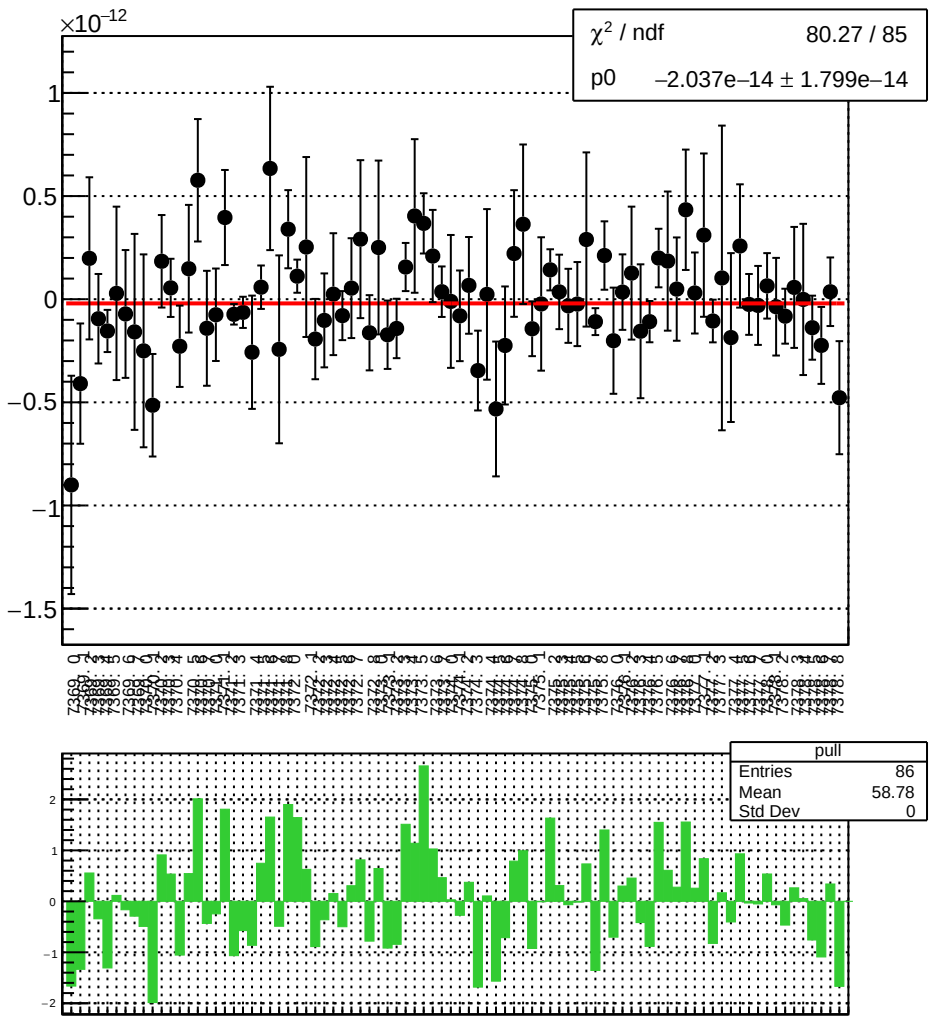

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3731 / 85
p0 0.004867 ± 3.755e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

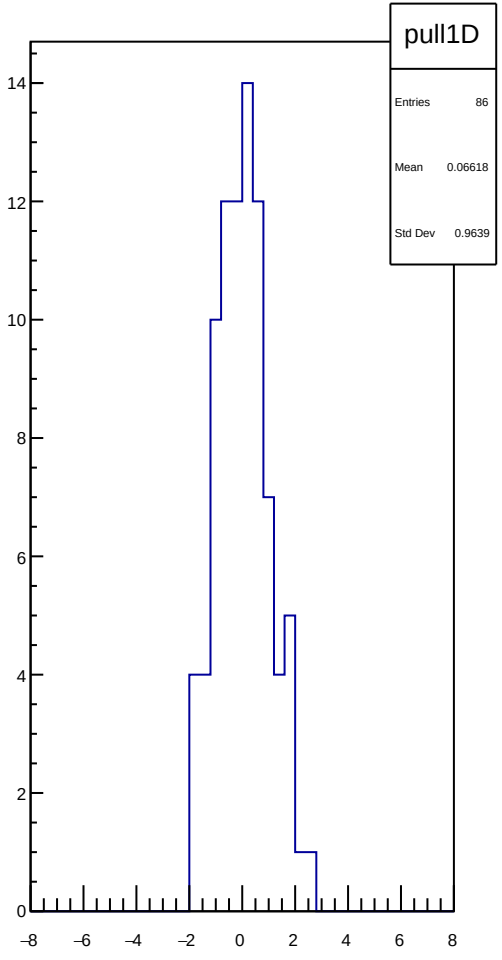

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.25 / 85
p0 −0.07501 ± 0.09136
pull
Entries 86
Mean −122.5
Std Dev 0
pull1D
Entries 86
Mean 0.01367
Std Dev 1.052

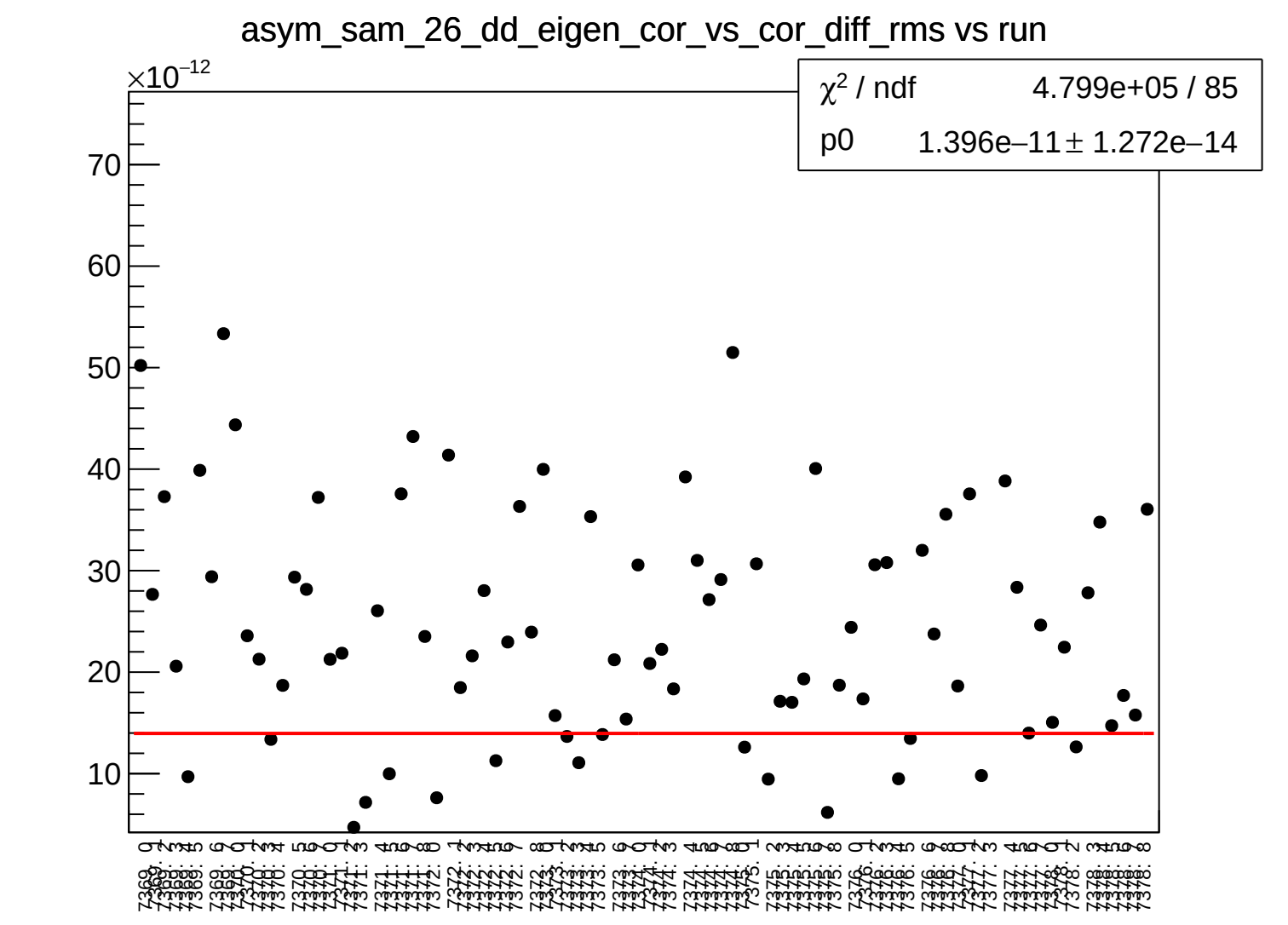

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8121 / 85
p0 83.64 ± 0.0646
100
95
90
85
80
75
70

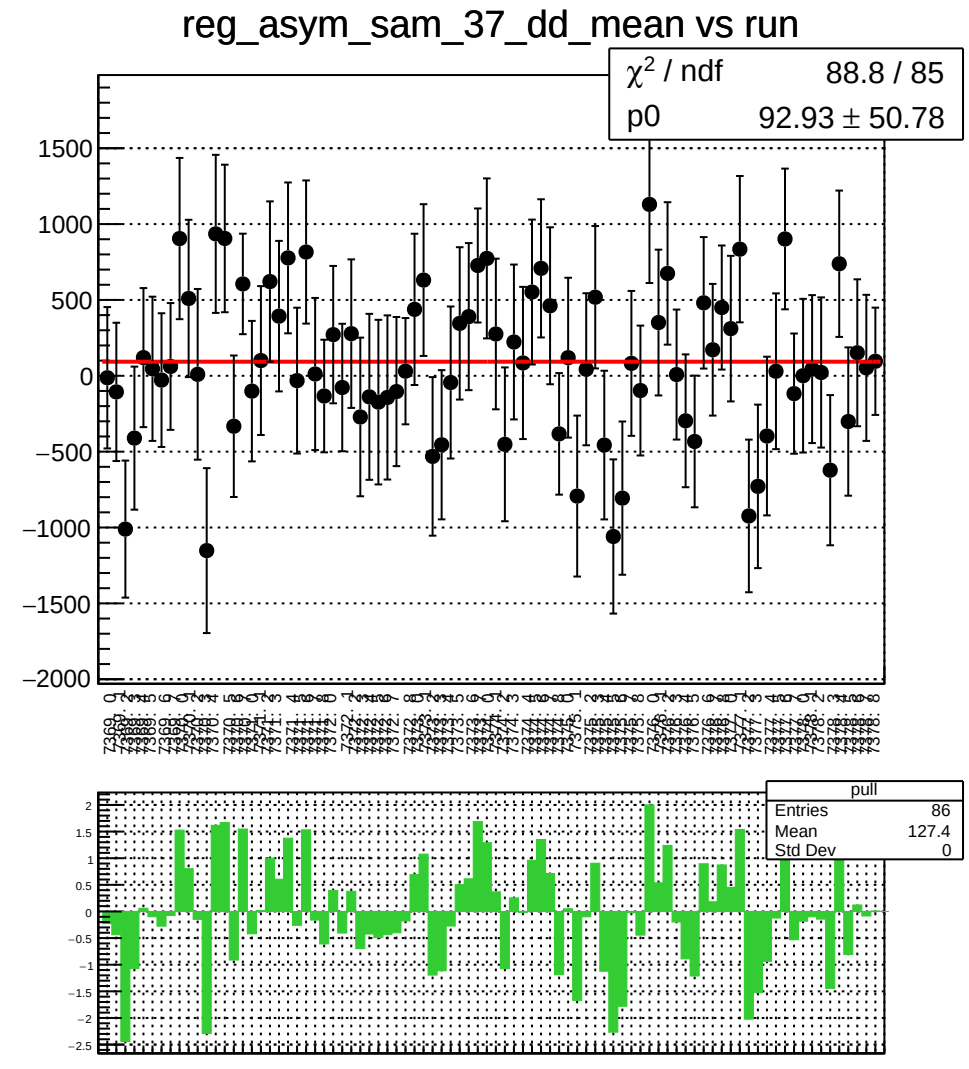

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.25 / 85
p0 −0.07501 ± 0.09136
pull
Entries 86
Mean −122.5
Std Dev 0
pull1D
Entries 86
Mean 0.01367
Std Dev 1.052

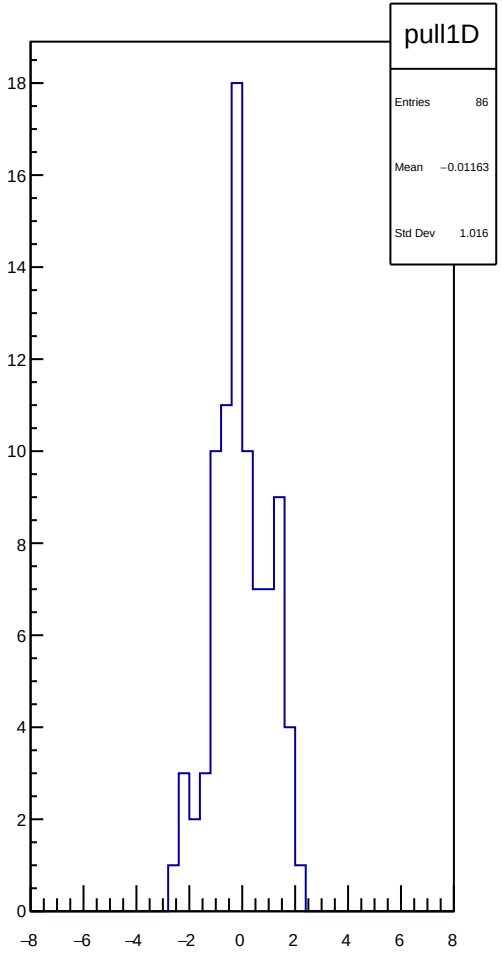

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8121 / 85
p0 83.64 ± 0.0646
100
95
90
85
80
75
70

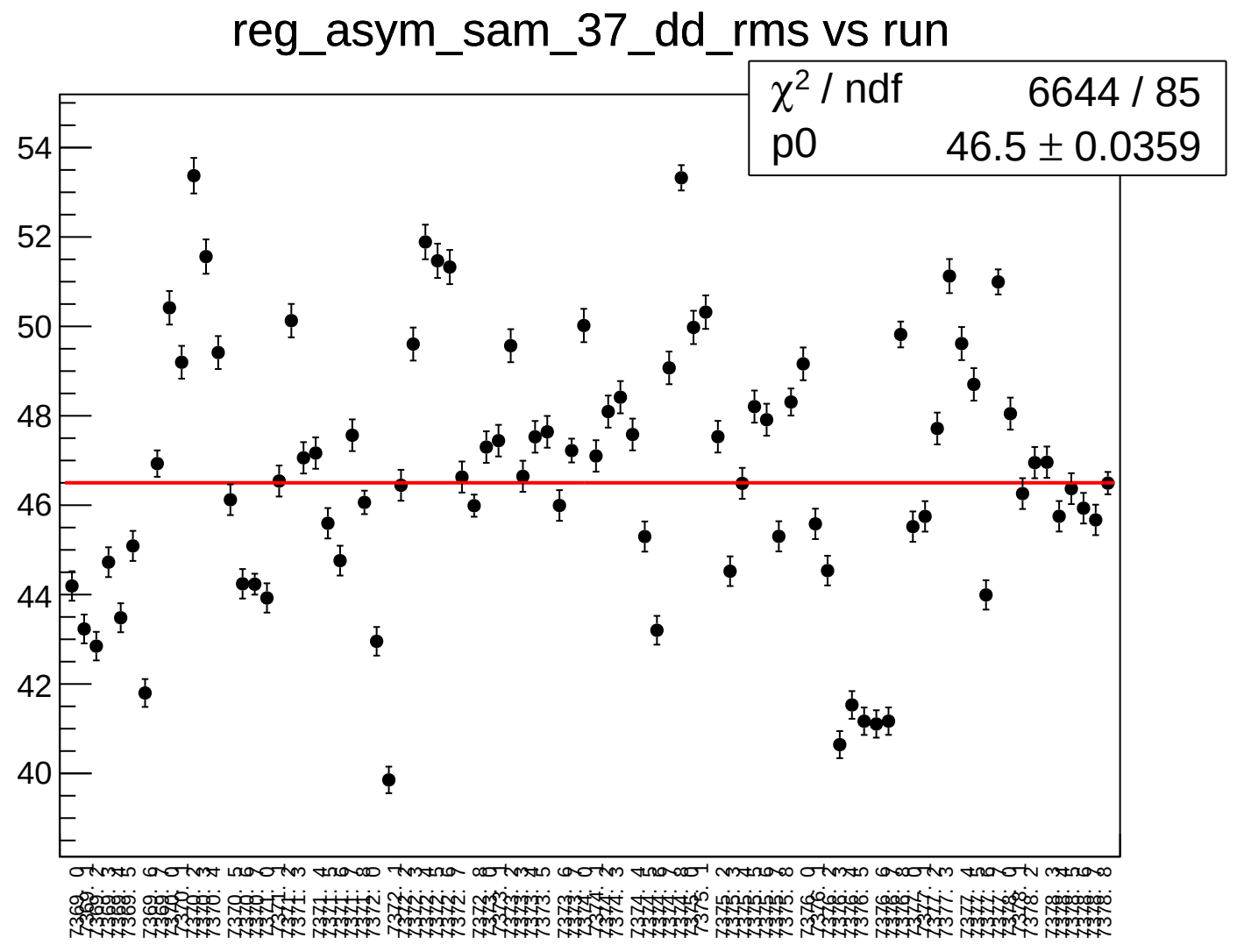

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.27 / 85
p0 −2.037e−14 ± 1.799e−14
pull
Entries 86
Mean 58.78
Std Dev 0

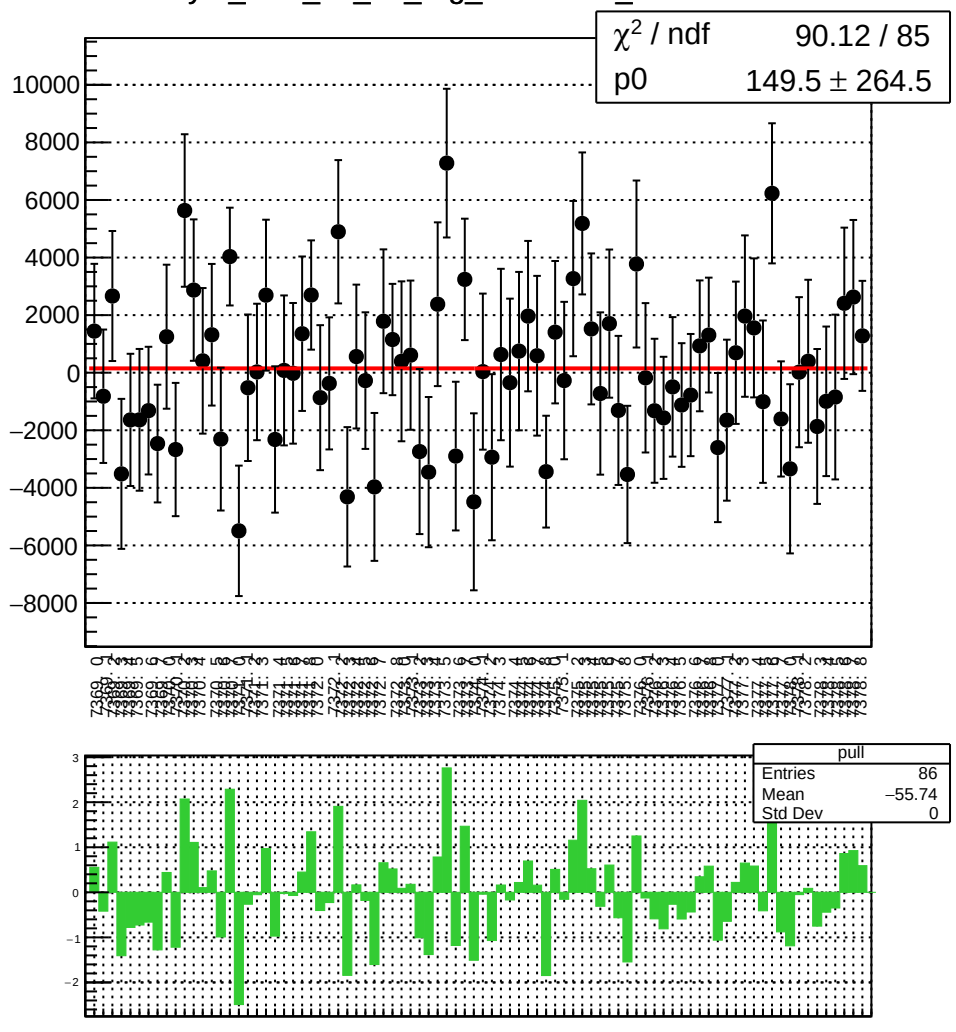

pull1D
Entries 86
Mean 0.06618
Std Dev 0.9639

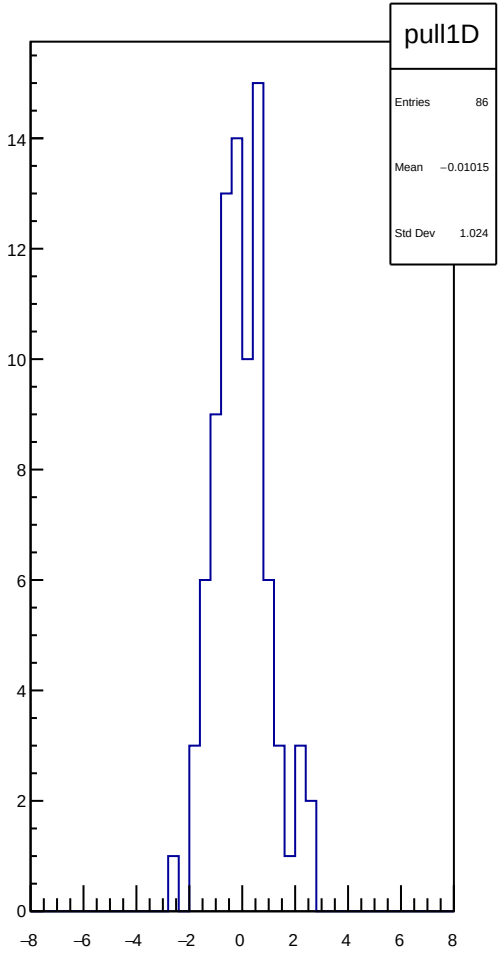

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.799e+05 / 85
p0 1.396e−11 ± 1.272e−14
70
60
50
40
30
20
10

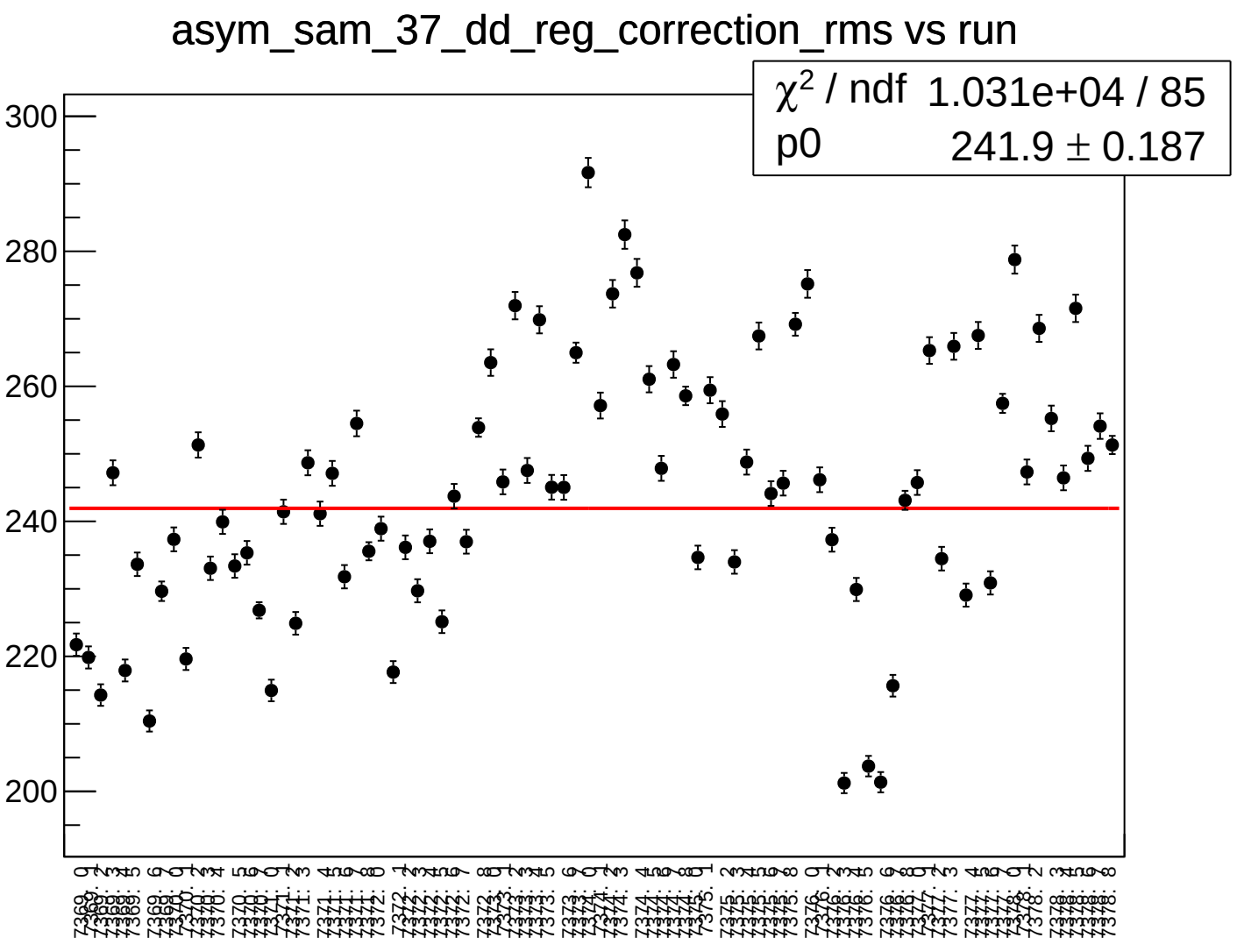

reg_asym_sam_37_dd_mean vs run
χ² / ndf 88.8 / 85
p0 92.93 ± 50.78
pull
Entries 86
Mean 127.4
Std Dev 0

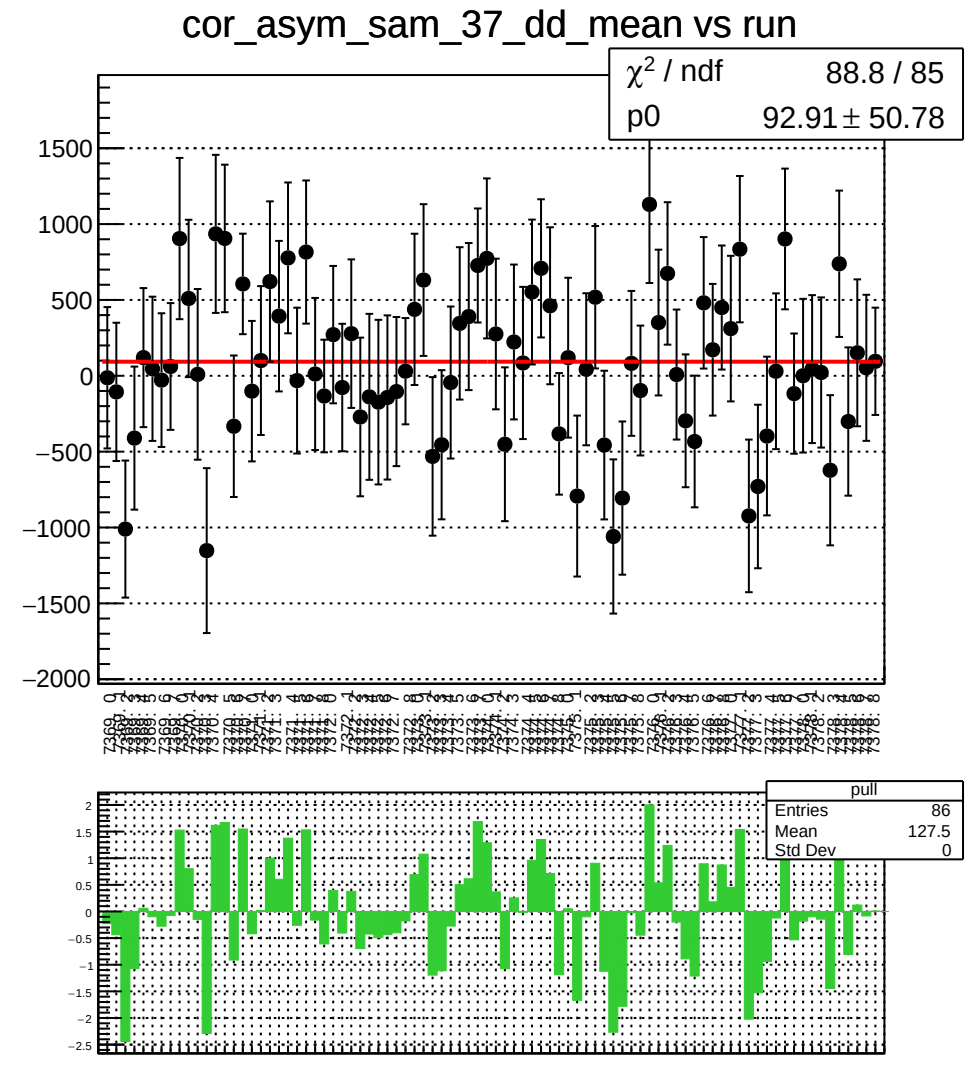

pull1D
Entries 86
Mean −0.01163
Std Dev 1.016

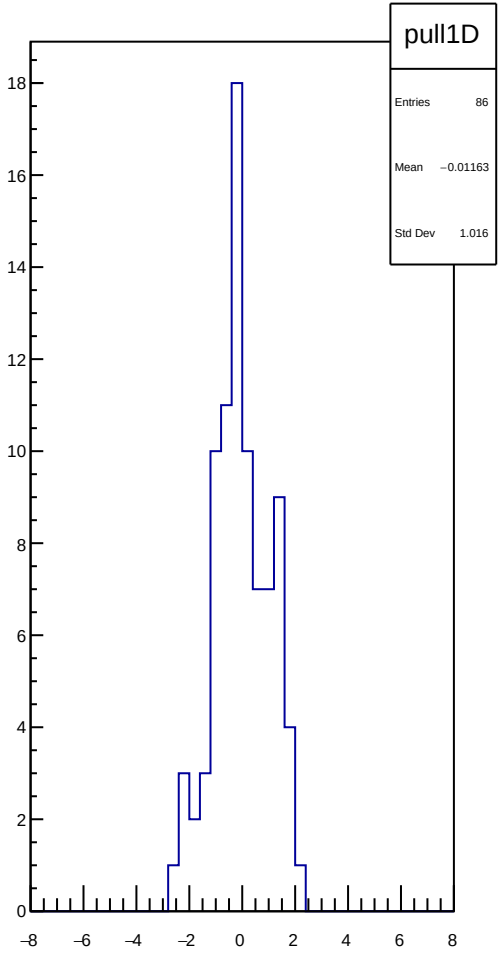

reg_asym_sam_37_dd_rms vs run
χ² / ndf 6644 / 85
p0 46.5 ± 0.0359
54
52
50
48
46
44
42
40

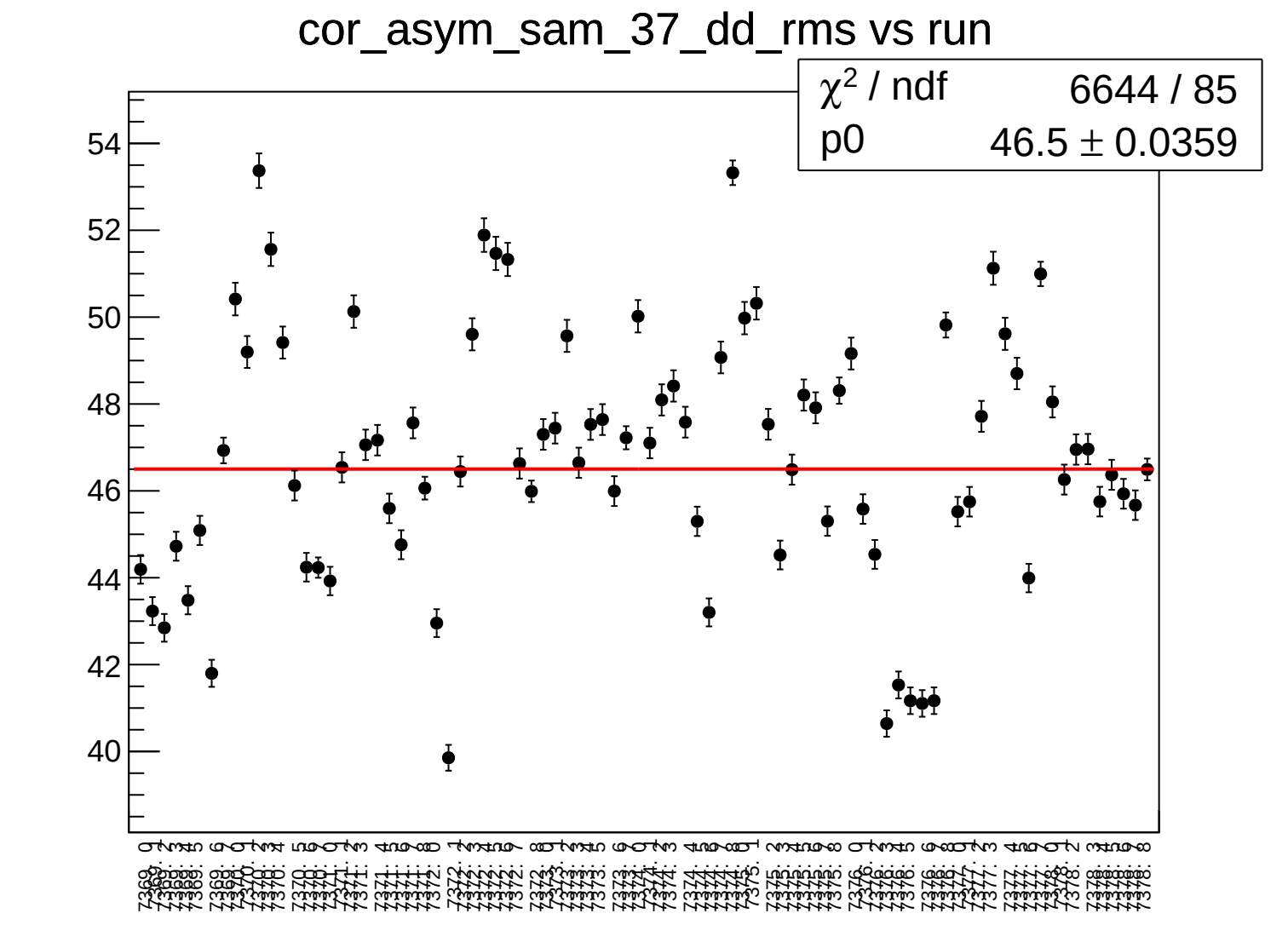

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 90.12 / 85
p0 149.5 ± 264.5
pull
Entries 86
Mean −55.74
Std Dev 0

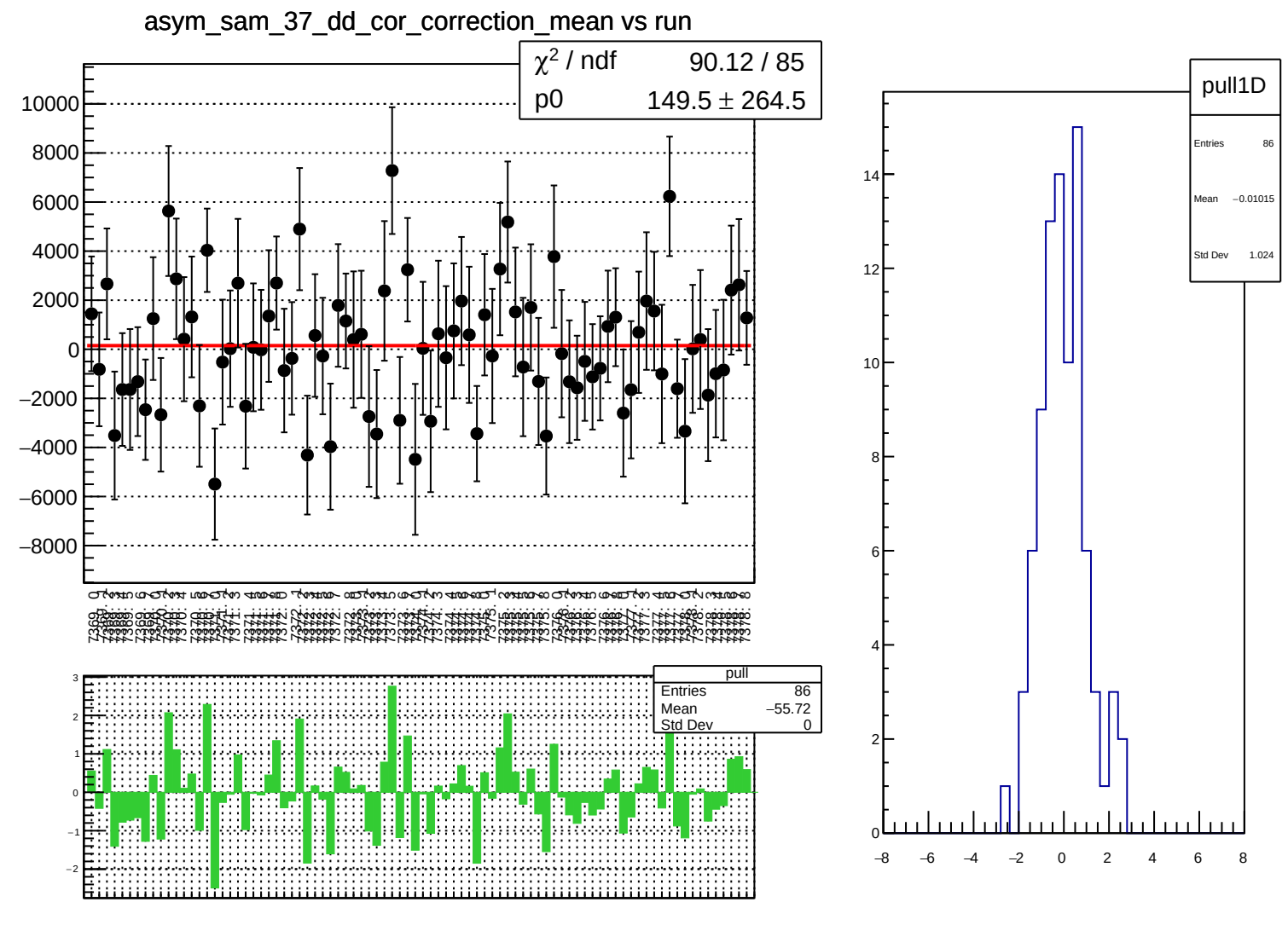

pull1D
Entries 86
Mean −0.01015
Std Dev 1.024

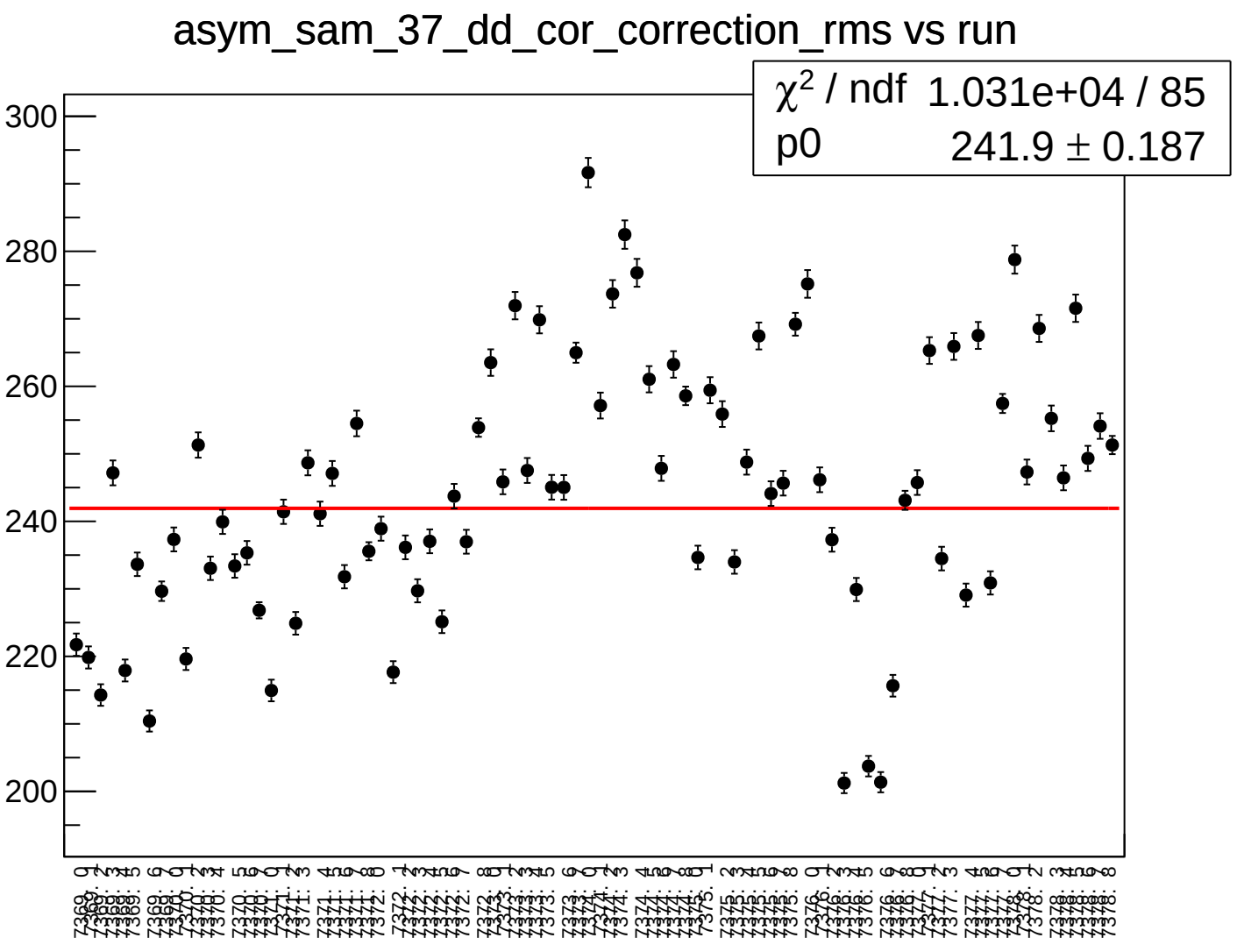

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.031e+04 / 85
p0 241.9 ± 0.187
300
280
260
240
220
200

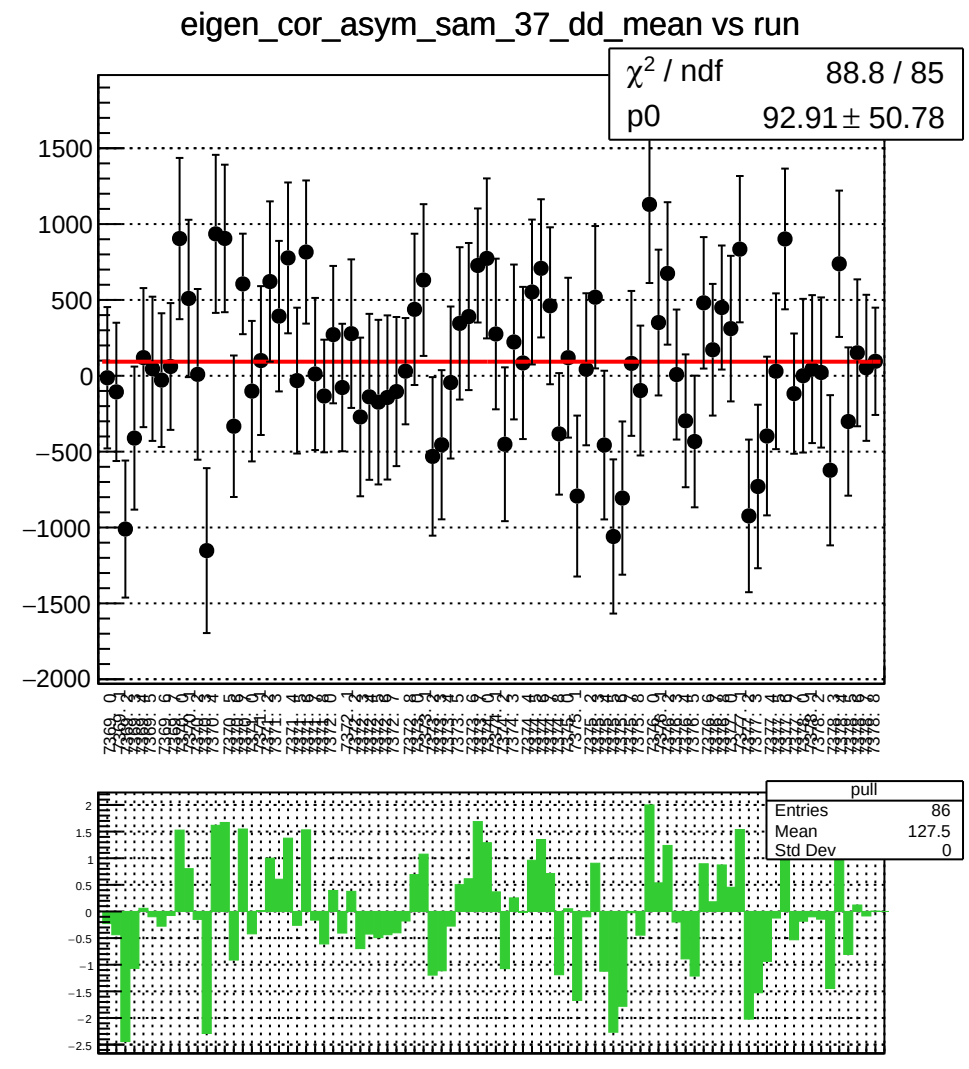

cor_asym_sam_37_dd_mean vs run
χ² / ndf 88.8 / 85
p0 92.91 ± 50.78
pull
Entries 86
Mean 127.5
Std Dev 0

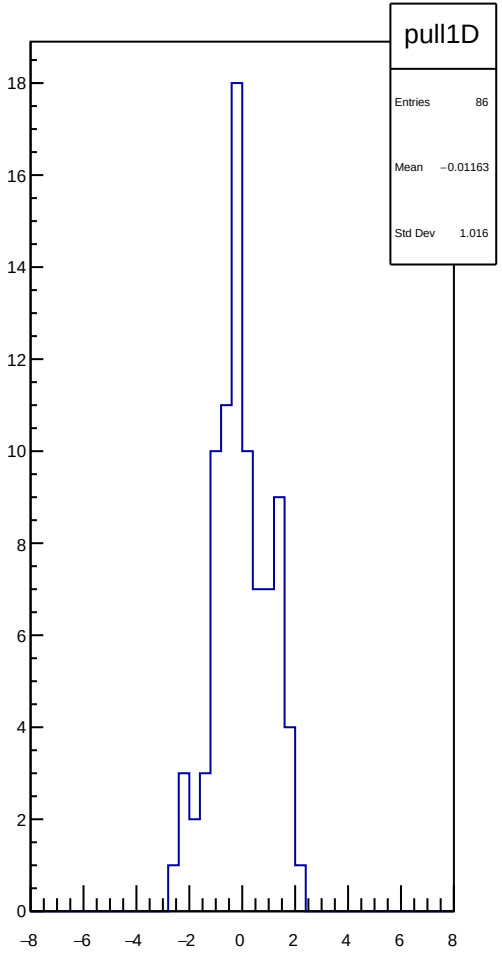

pull1D
Entries 86
Mean −0.01163
Std Dev 1.016

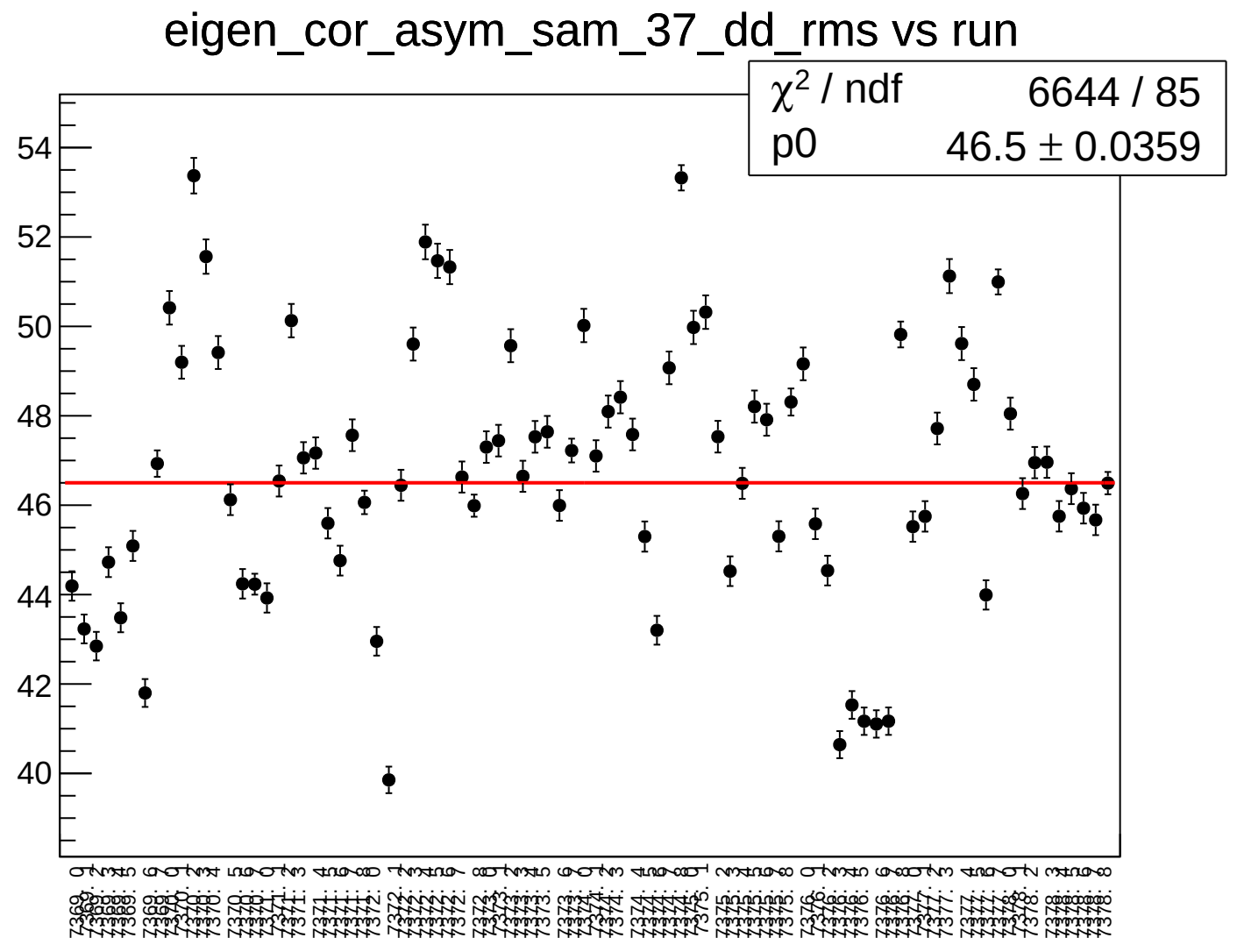

cor_asym_sam_37_dd_rms vs run
χ² / ndf 6644 / 85
p0 46.5 ± 0.0359
54
52
50
48
46
44
42
40

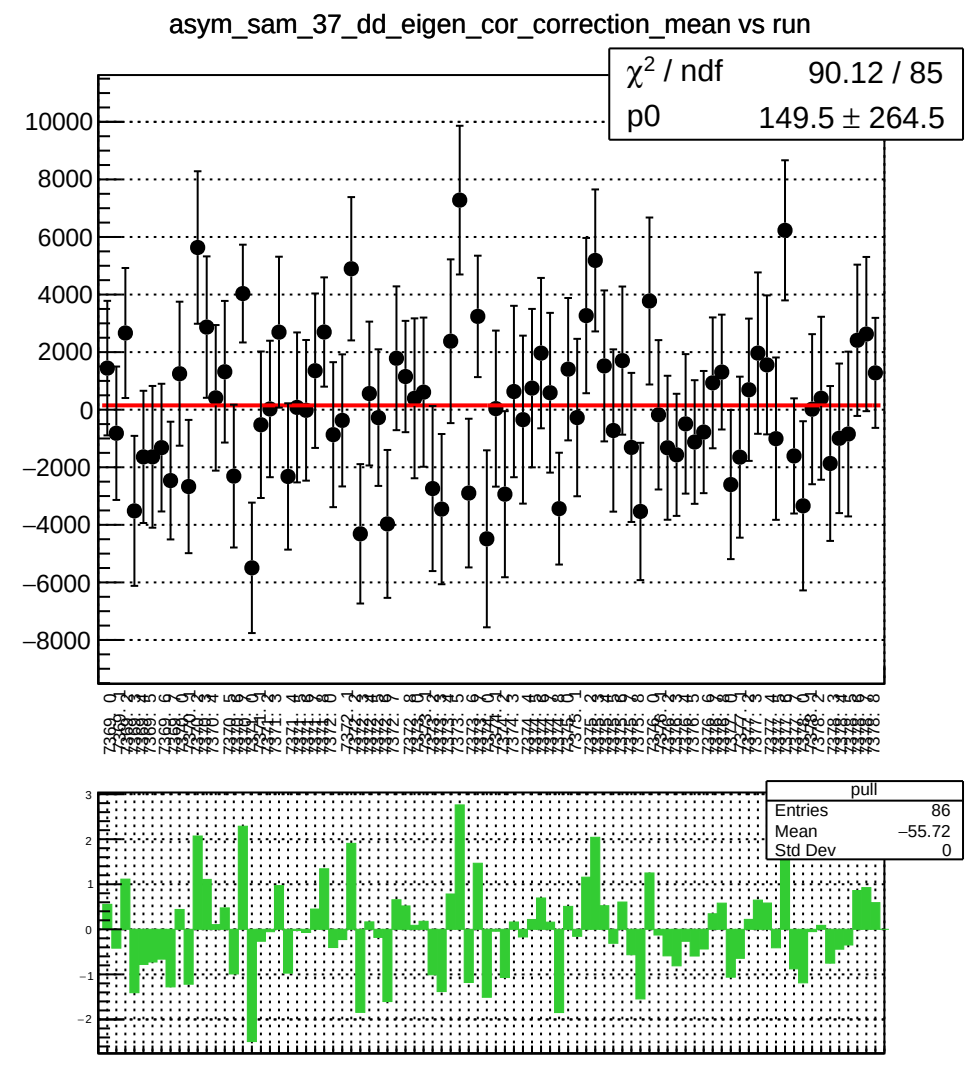

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 90.12 / 85
p0 149.5 ± 264.5
pull
Entries 86
Mean −55.72
Std Dev 0
pull1D
Entries 86
Mean −0.01015
Std Dev 1.024

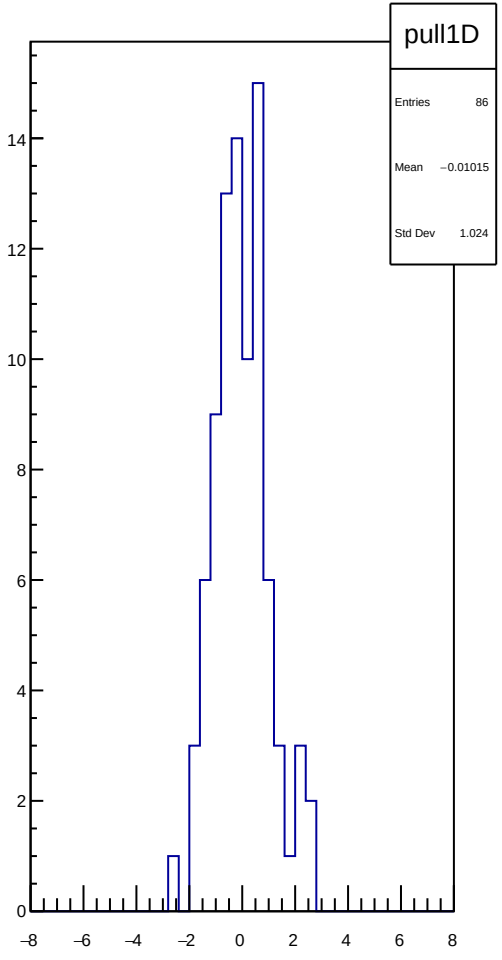

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.031e+04 / 85
p0 241.9 ± 0.187
300
280
260
240
220
200

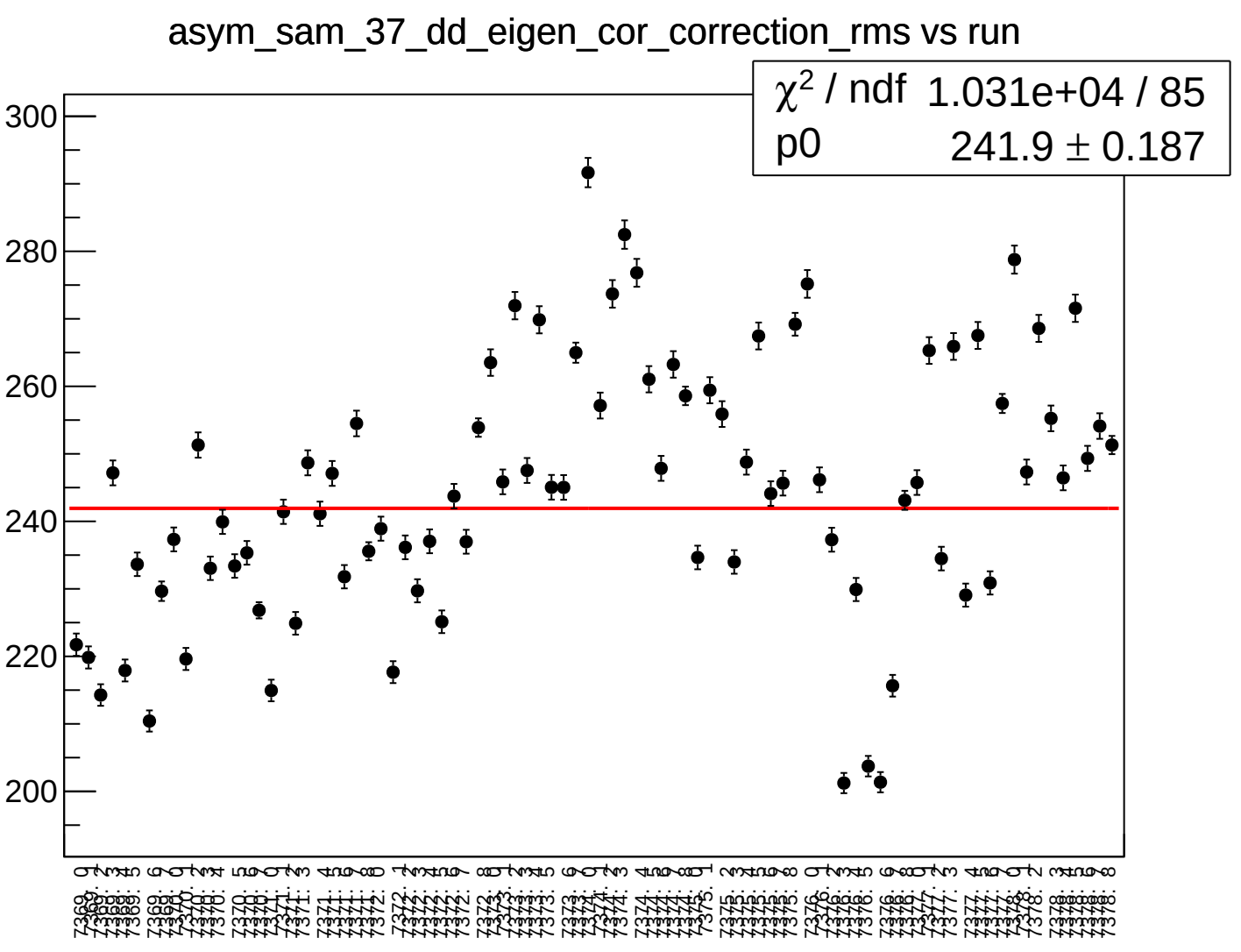

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 88.8 / 85
p0 92.91 ± 50.78
pull
Entries 86
Mean 127.5
Std Dev 0

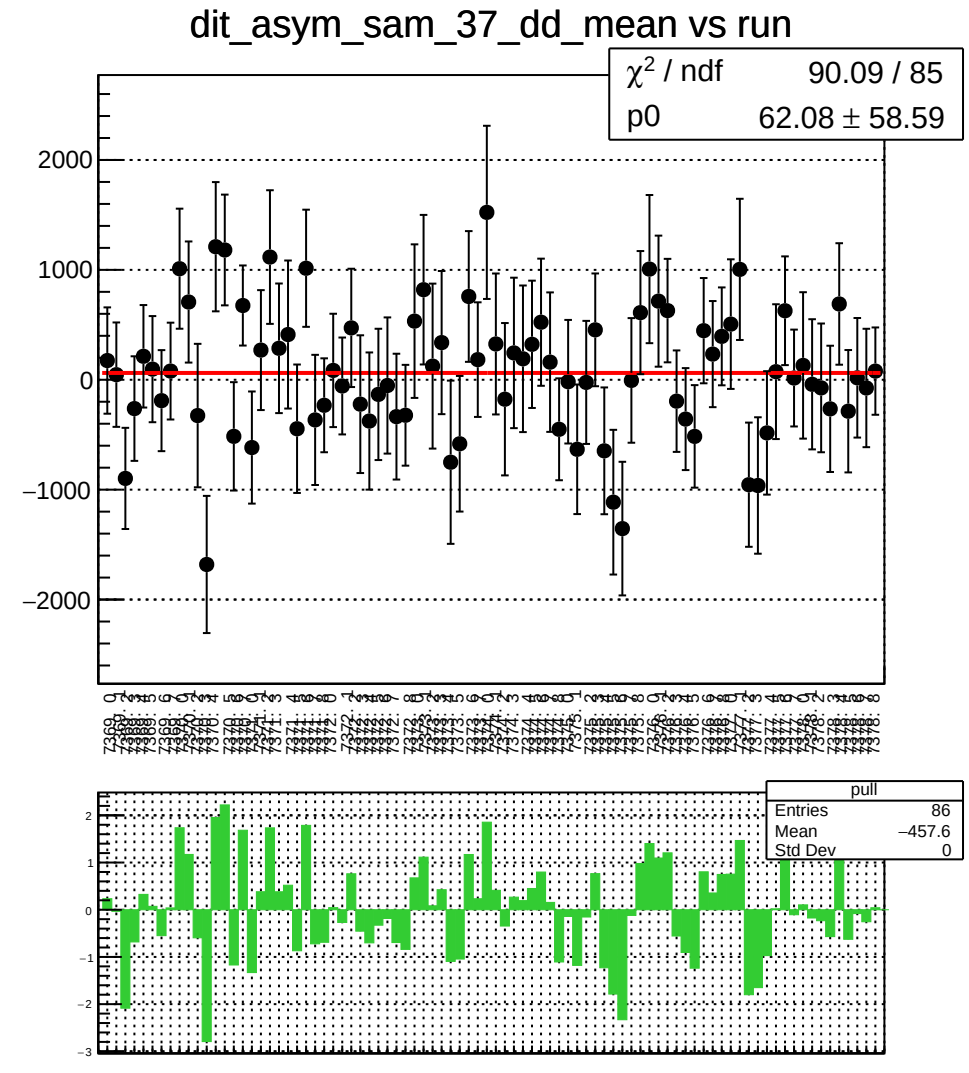

pull1D
Entries 86
Mean −0.01163
Std Dev 1.016

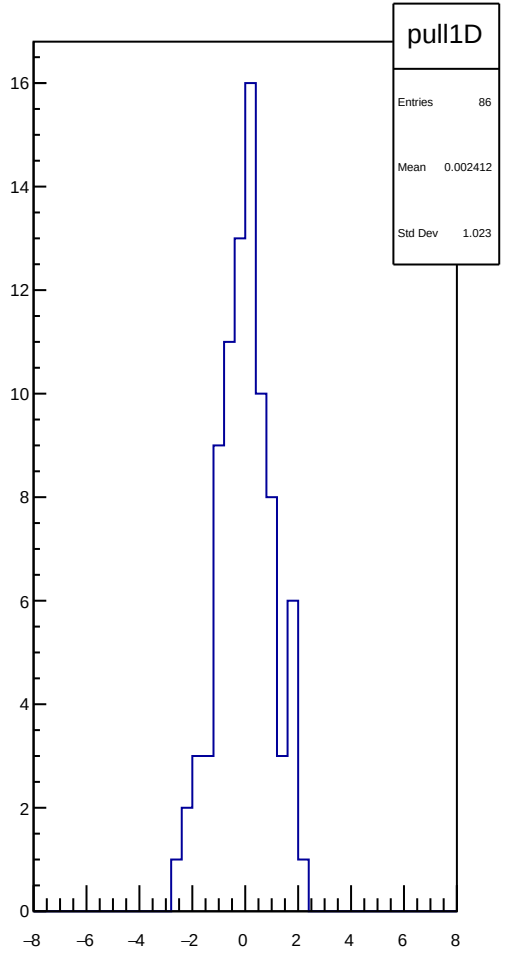

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 6644 / 85
p0 46.5 ± 0.0359
54
52
50
48
46
44
42
40

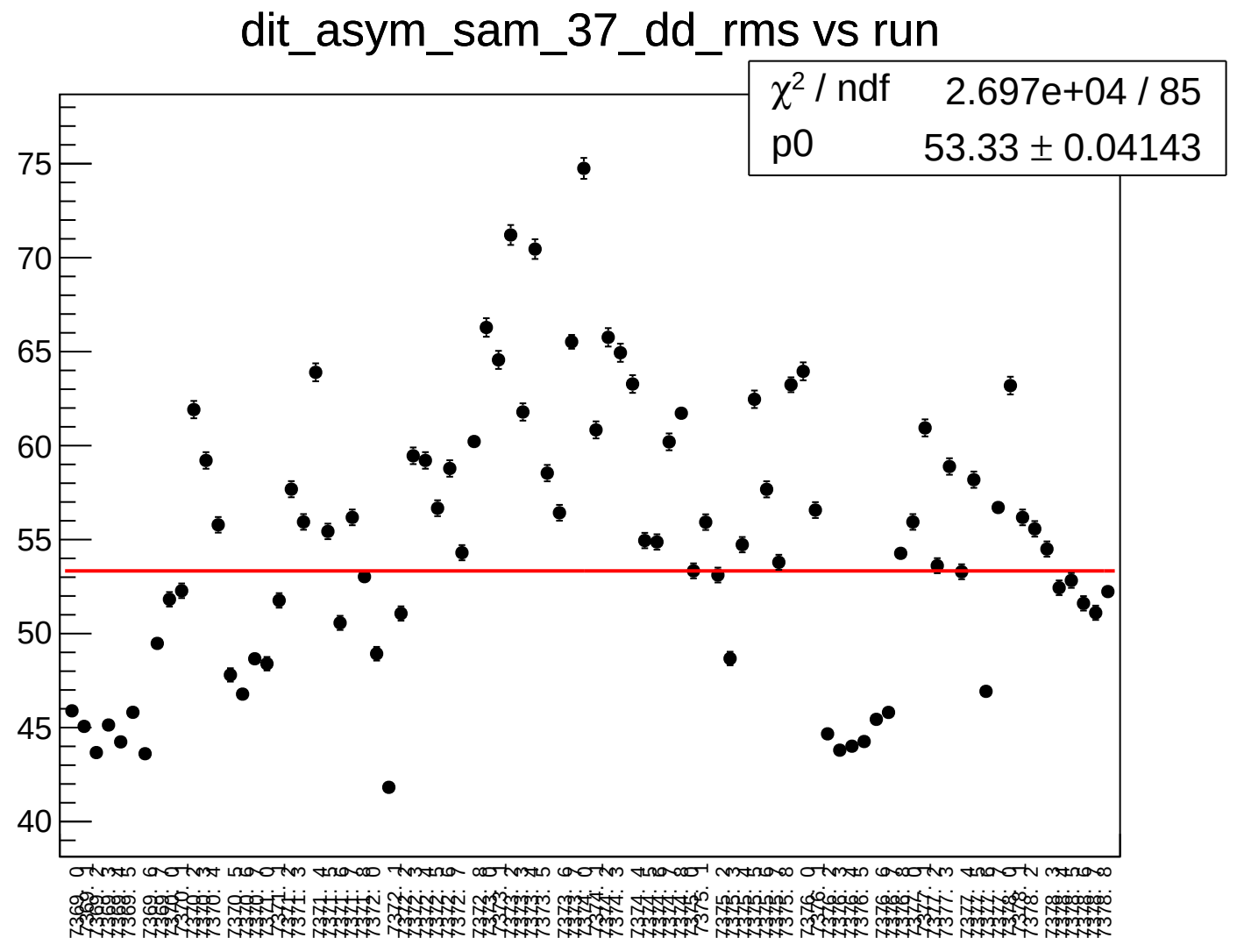

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.12 / 85
p0 149.5 ± 264.5
pull
Entries 86
Mean −55.72
Std Dev 0

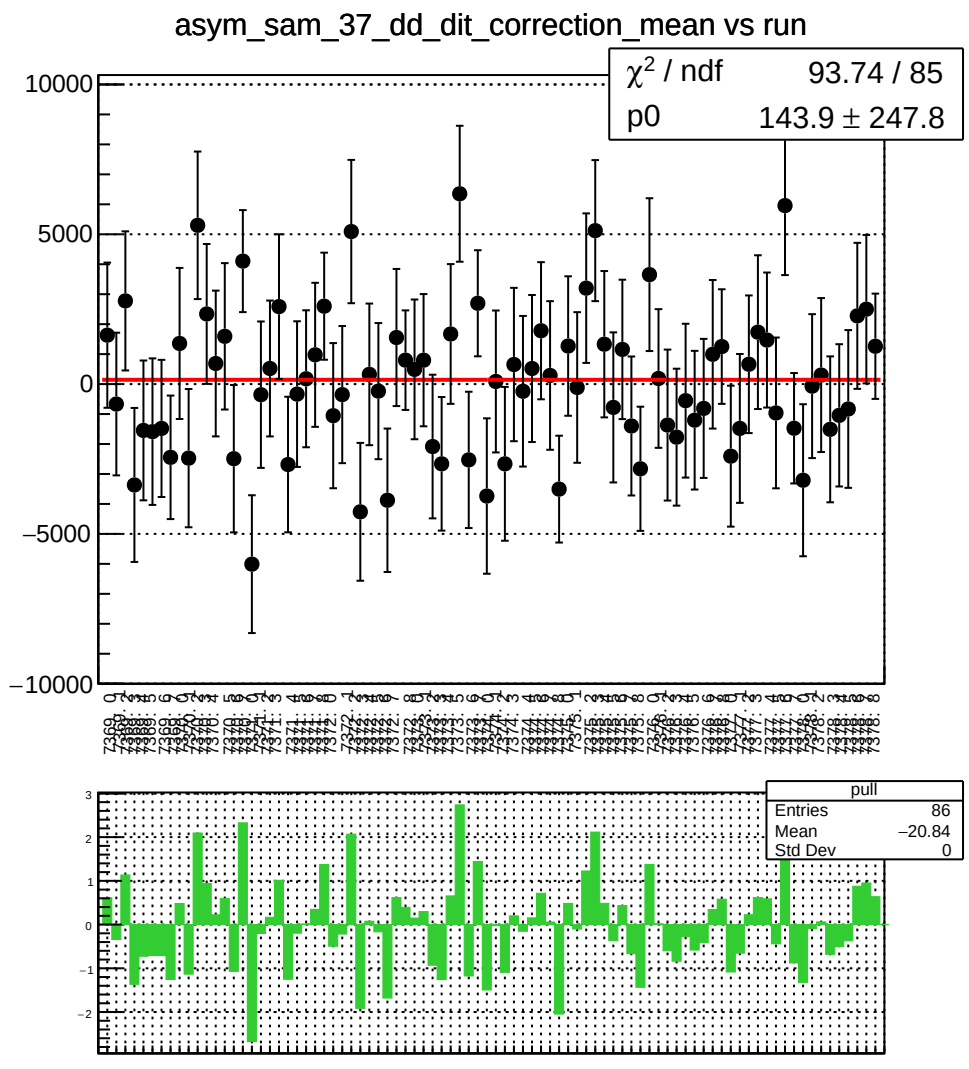

pull1D
Entries 86
Mean −0.01015
Std Dev 1.024

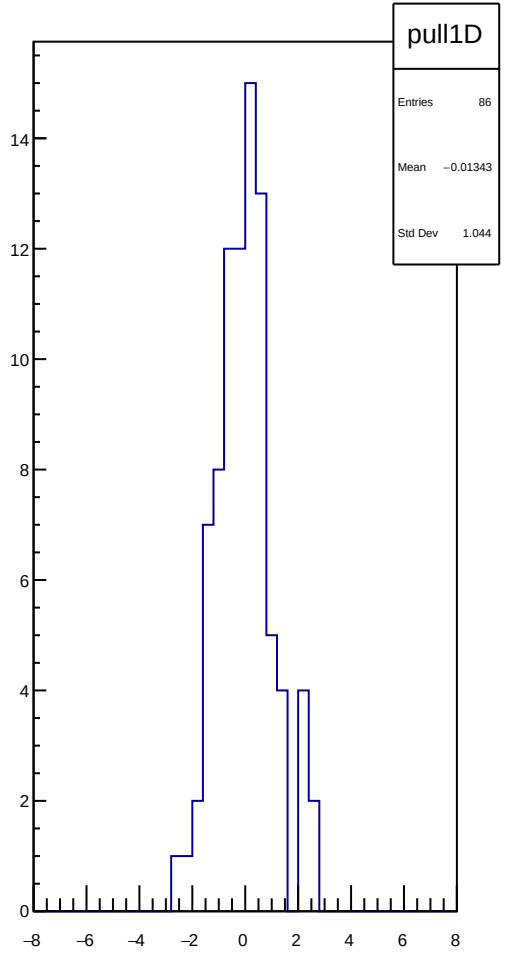

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.031e+04 / 85
p0 241.9 ± 0.187
300
280
260
240
220
200

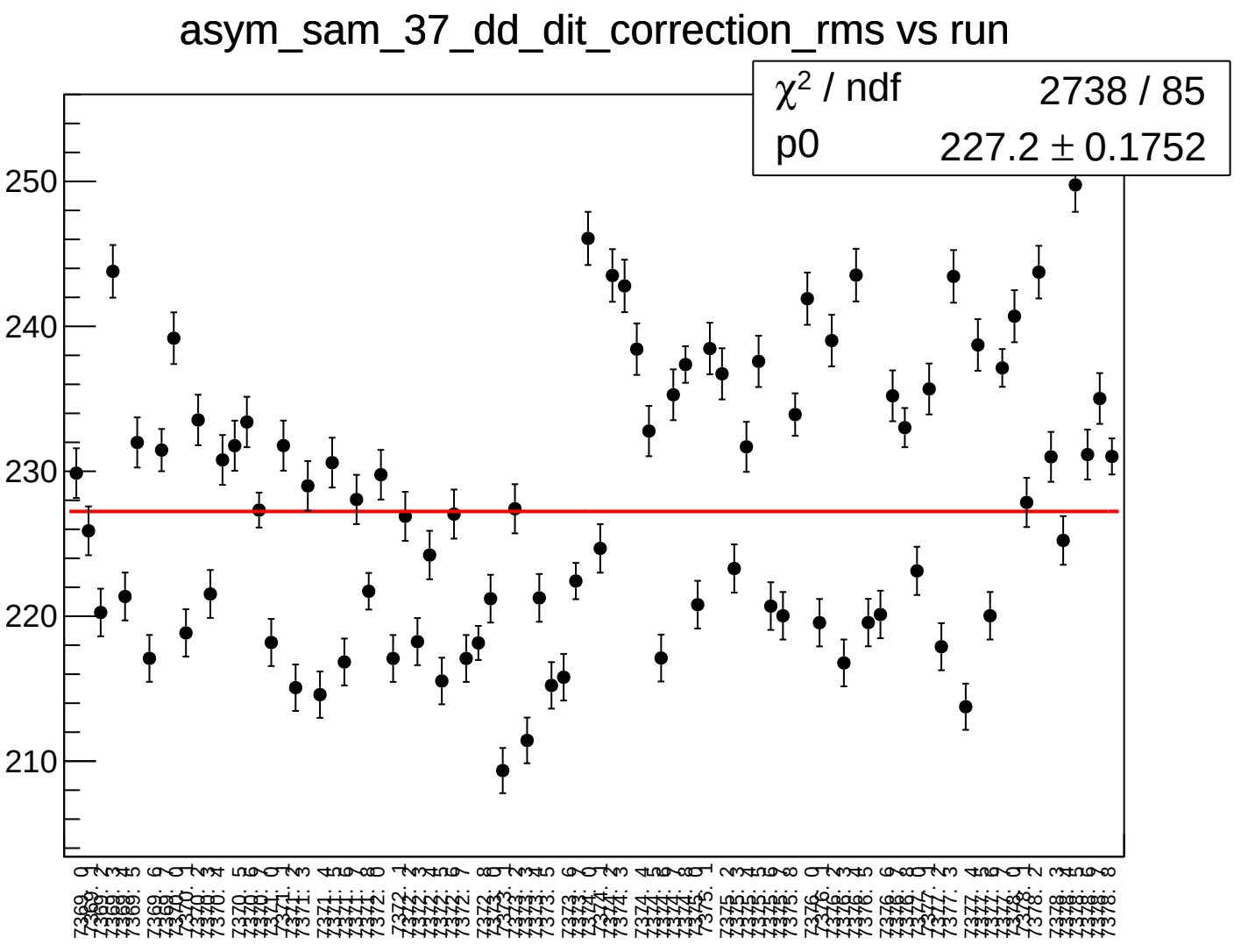

dit_asym_sam_37_dd_mean vs run
χ² / ndf 90.09 / 85
p0 62.08 ± 58.59
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −457.6
Std Dev 0
2
1
0
−1
−2
−3

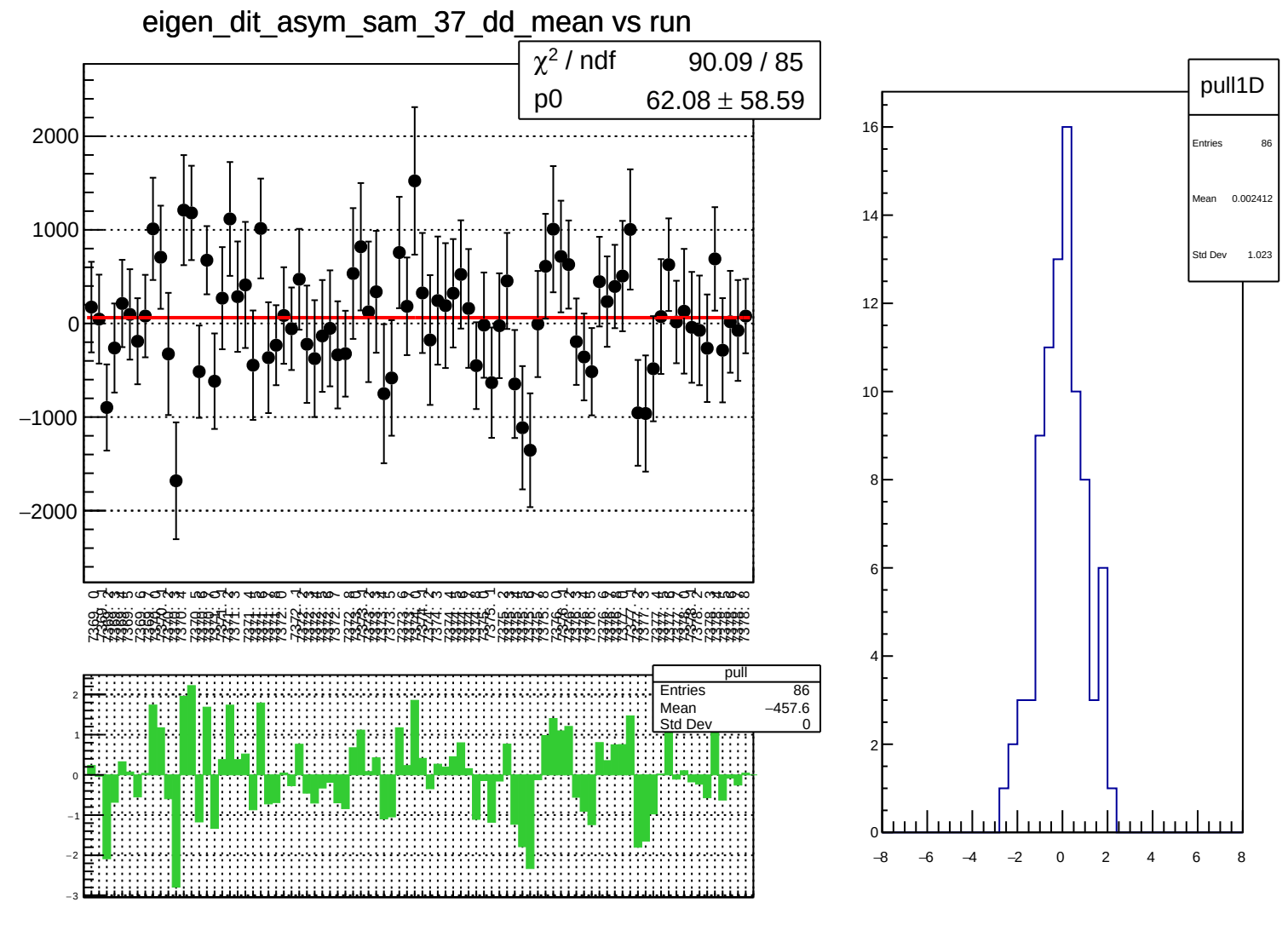

pull1D
Entries 86
Mean 0.002412
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

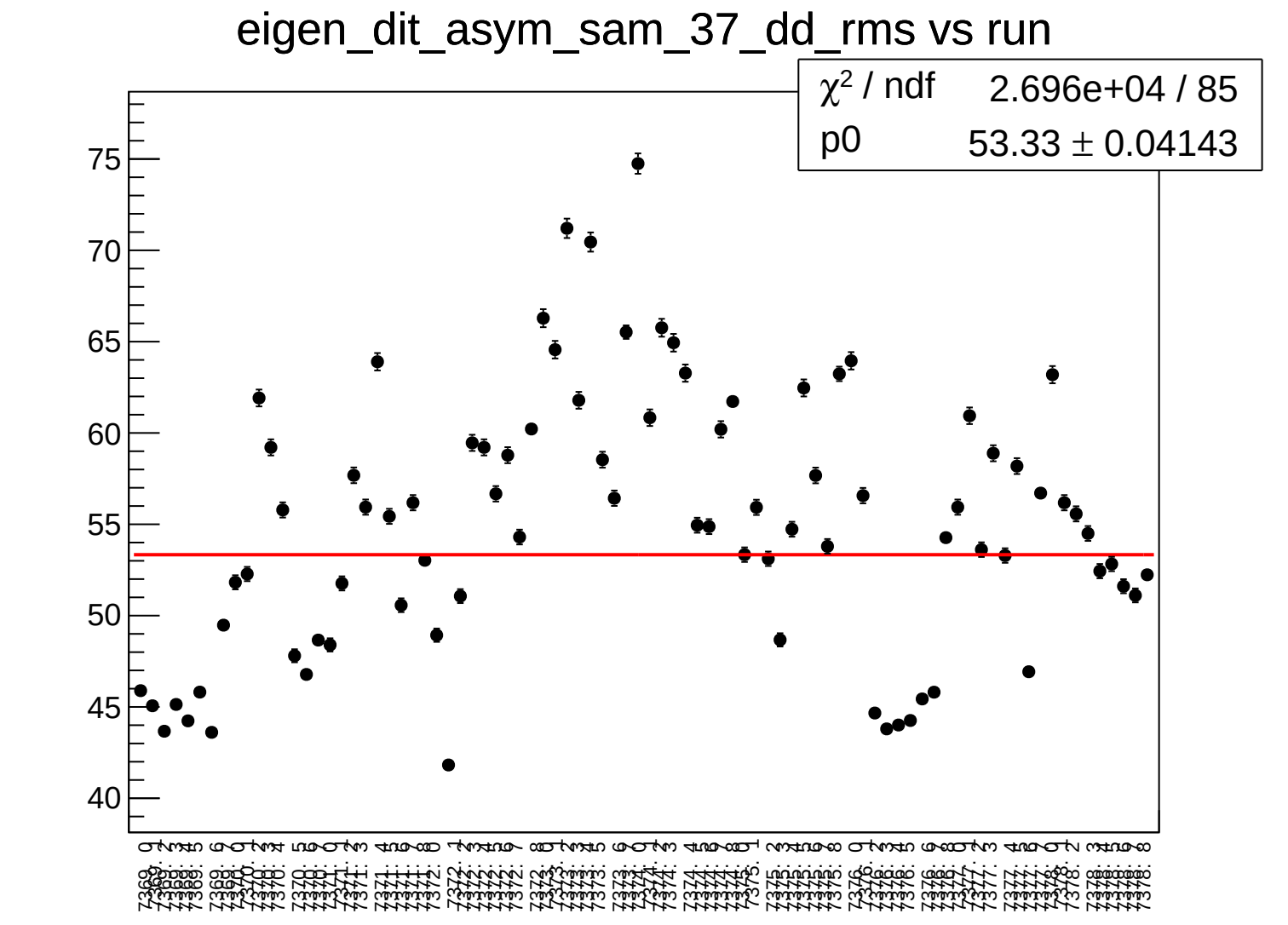

dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.697e+04 / 85
p0 53.33 ± 0.04143
75
70
65
60
55
50
45
40

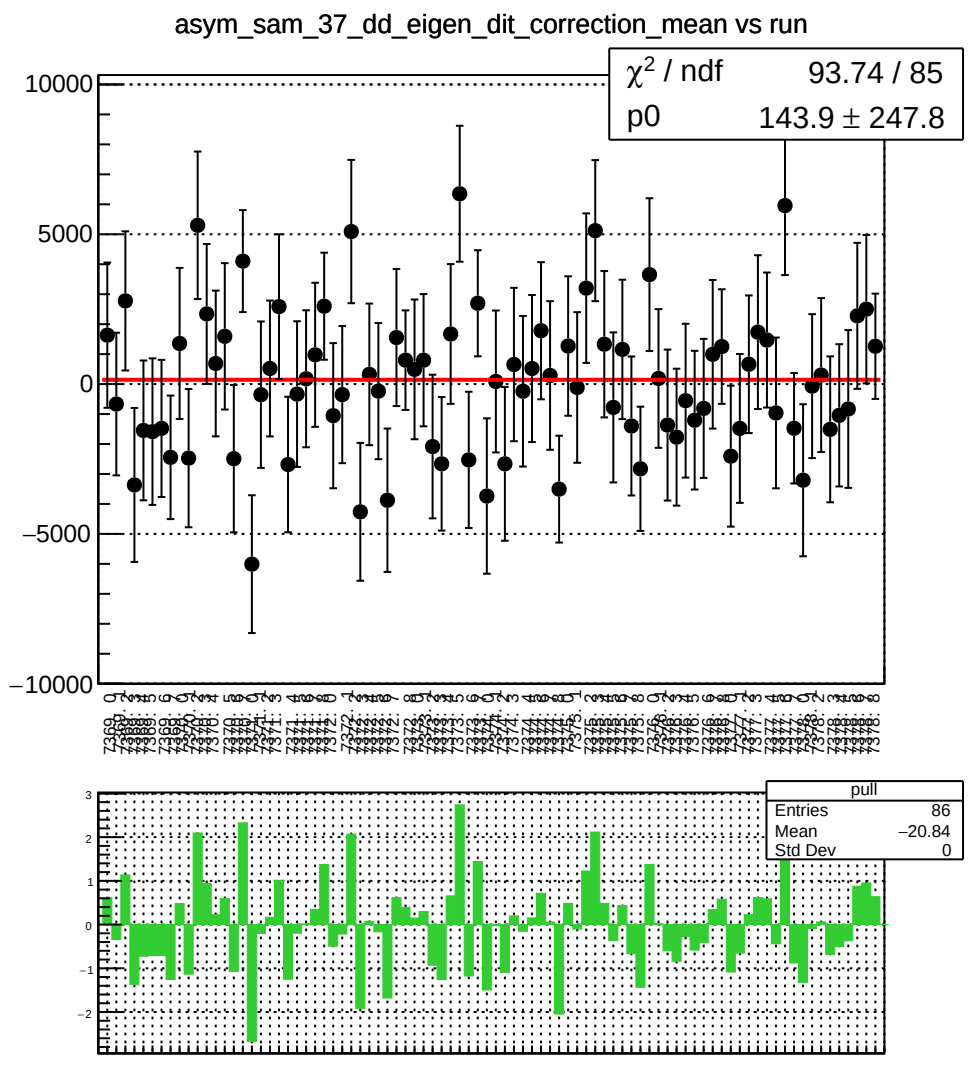

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 93.74 / 85
p0 143.9 ± 247.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −20.84
Std Dev 0
3
2
1
0
−1
−2

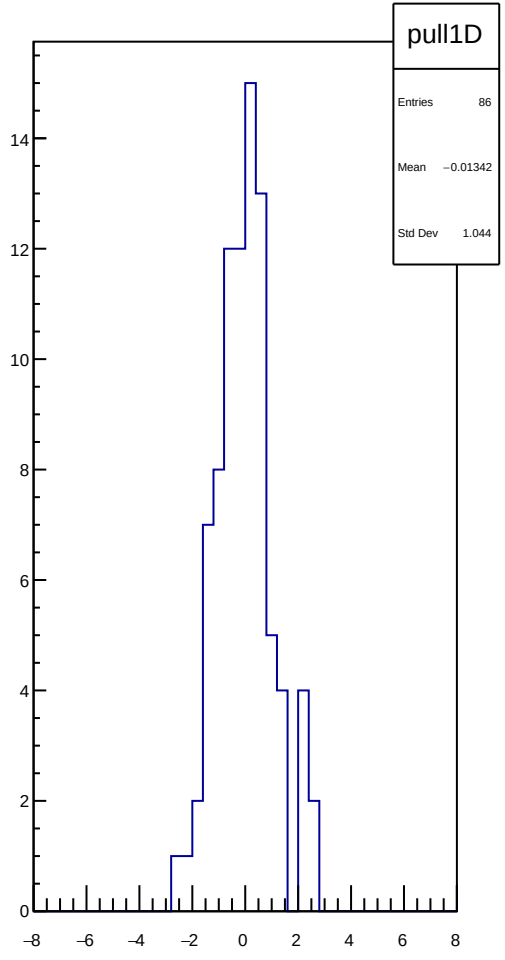

pull1D
Entries 86
Mean −0.01343
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

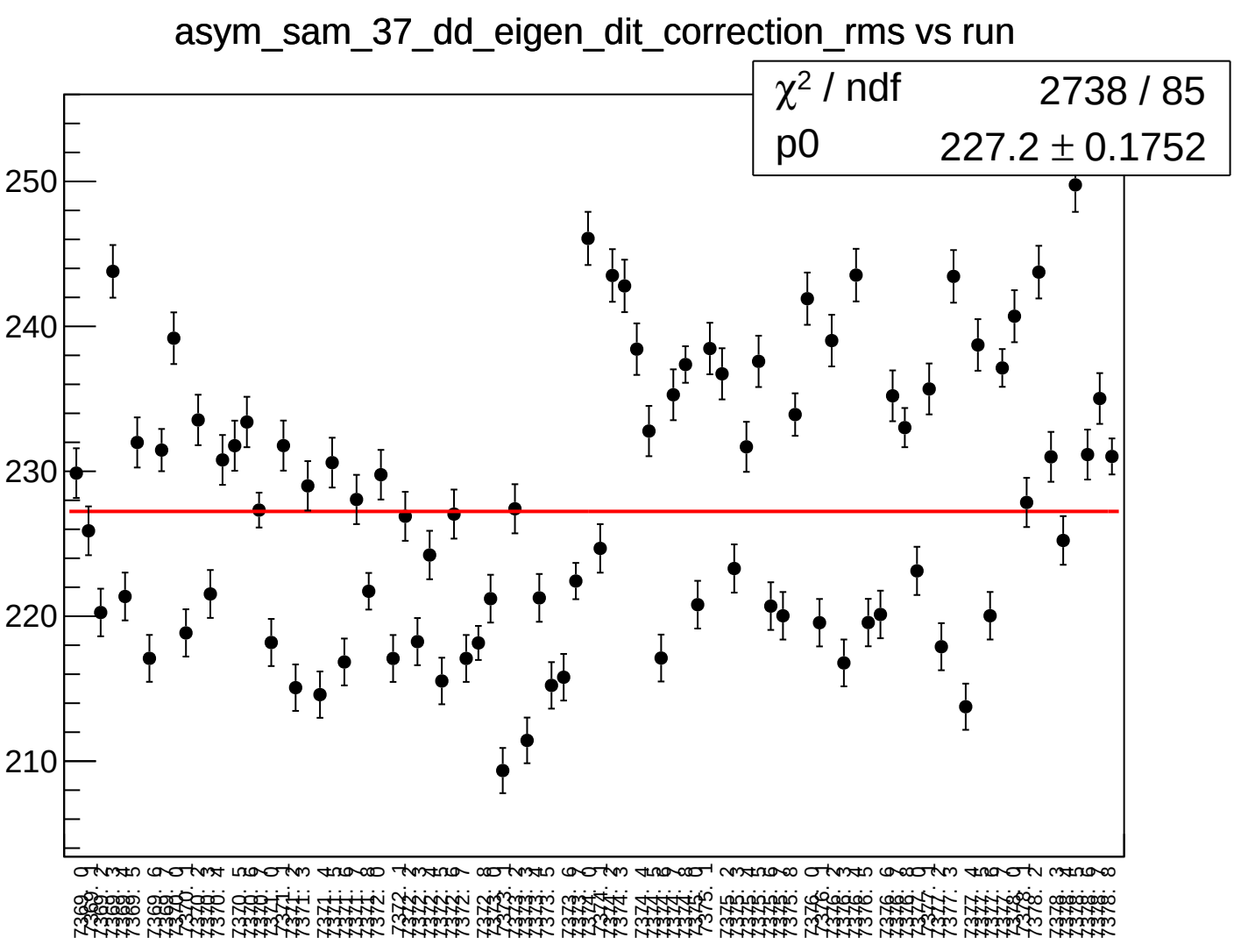

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2738 / 85
p0 227.2 ± 0.1752
250
240
230
220
210

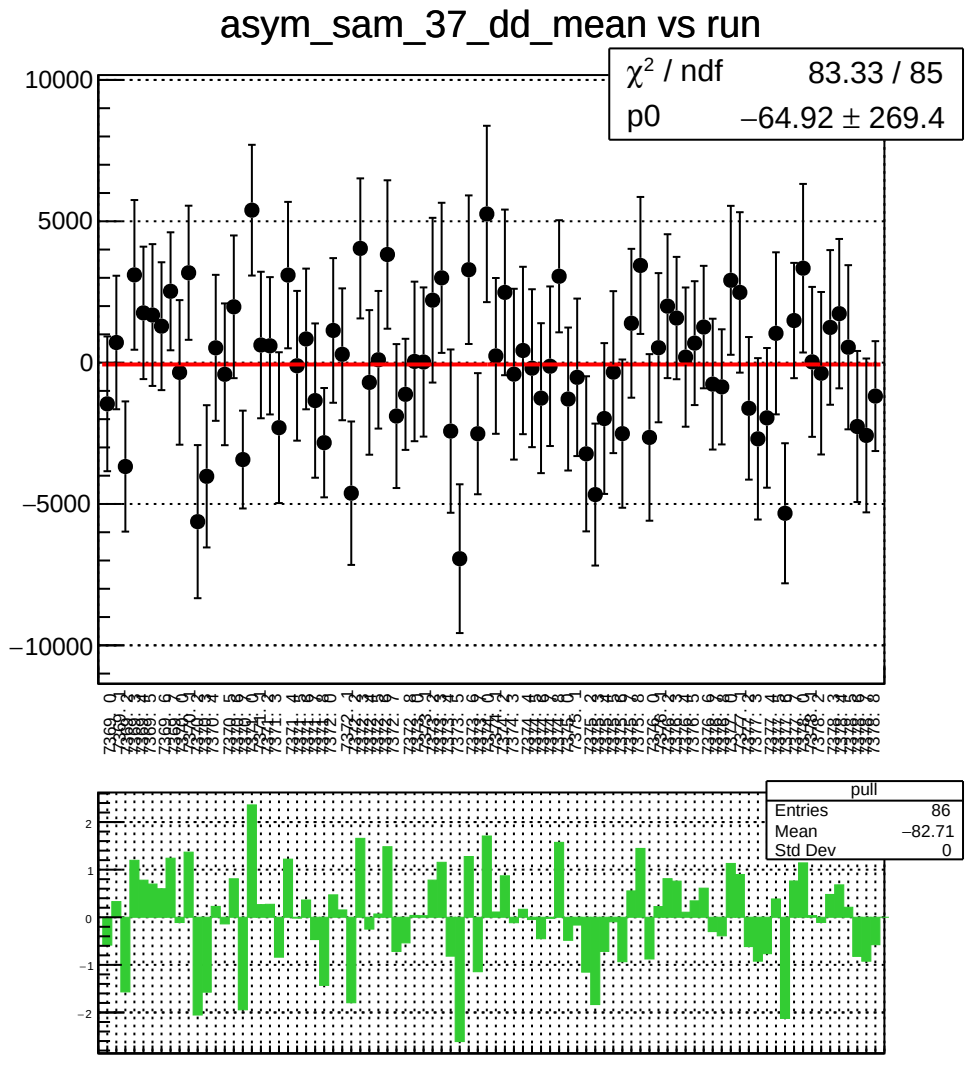

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 90.09 / 85
p0 62.08 ± 58.59
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −457.6
Std Dev 0
pull1D
Entries 86
Mean 0.002412
Std Dev 1.023

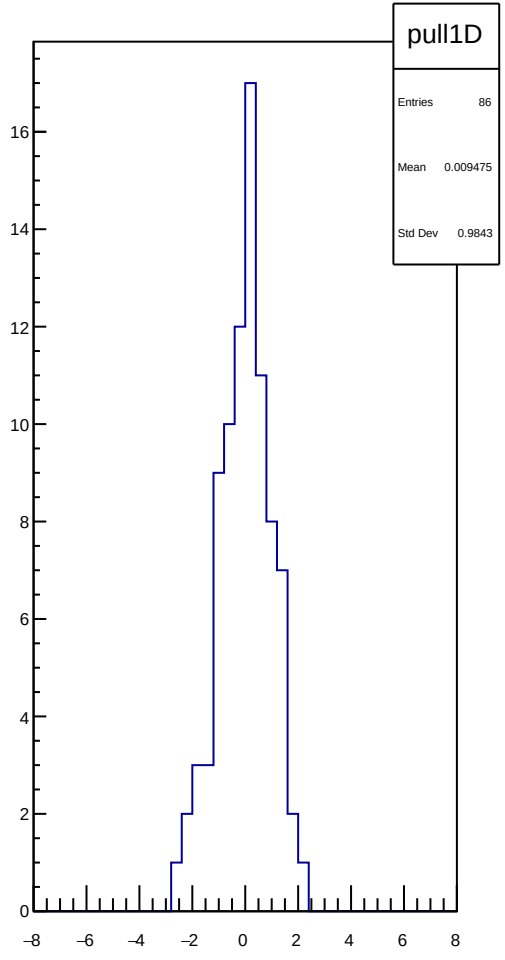

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.696e+04 / 85
p0 53.33 ± 0.04143
75
70
65
60
55
50
45
40

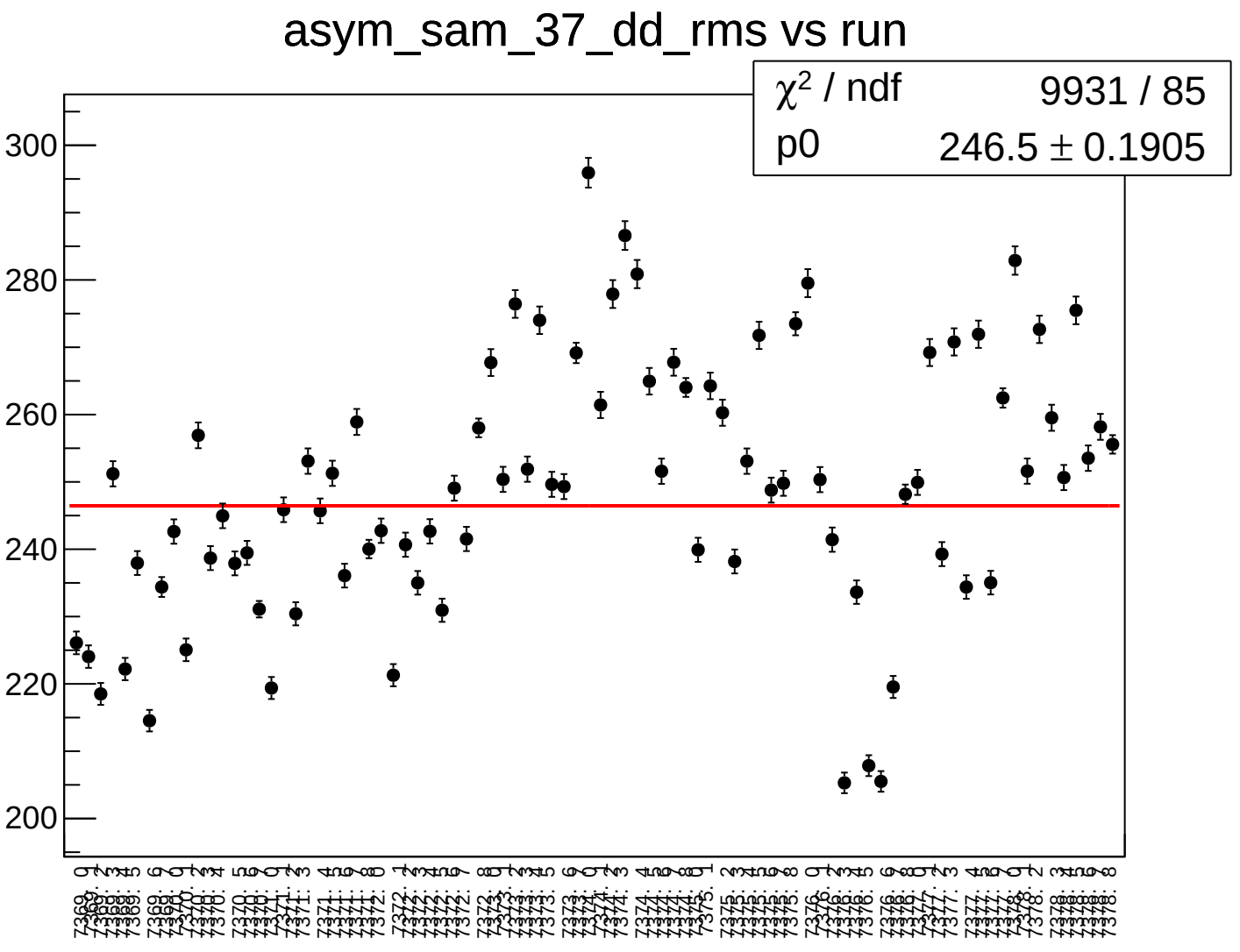

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.74 / 85
p0 143.9 ± 247.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −20.84
Std Dev 0
3
2
1
0
−1
−2

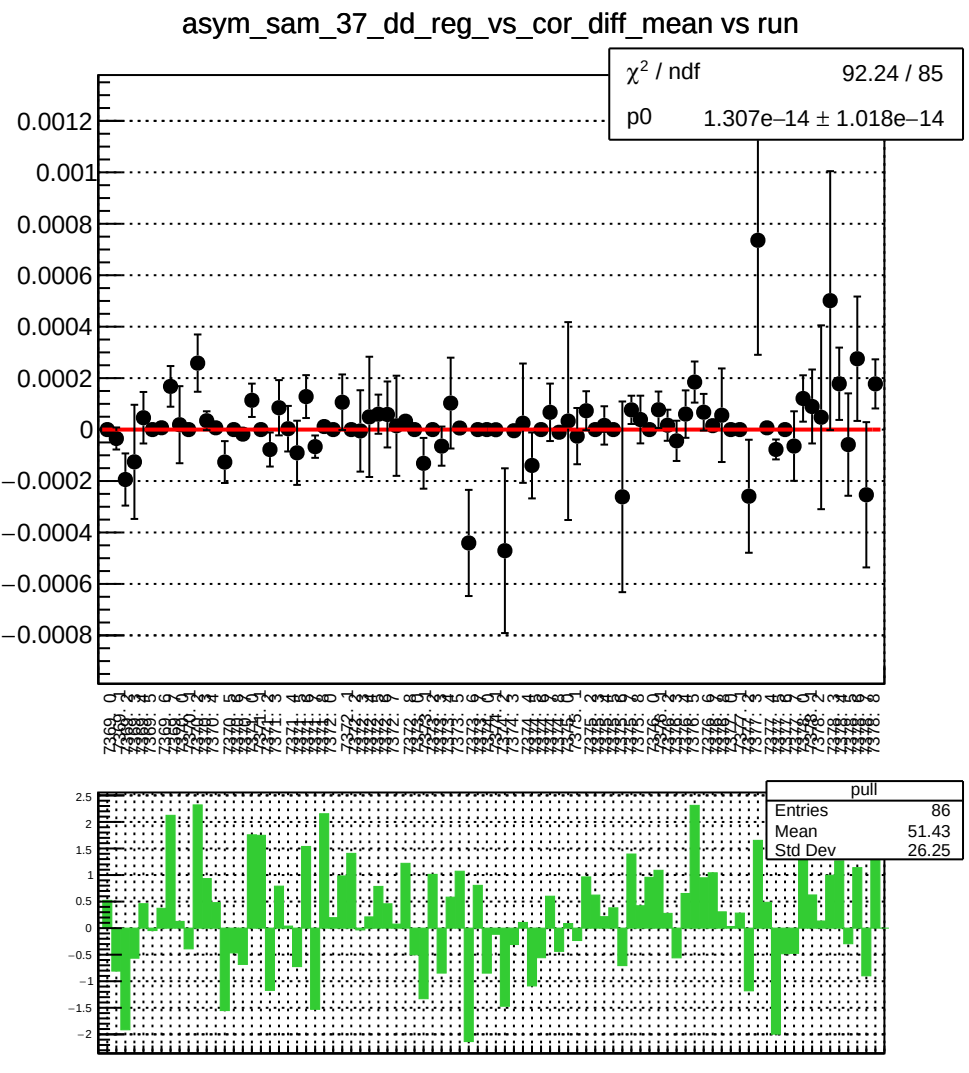

pull1D
Entries 86
Mean −0.01342
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

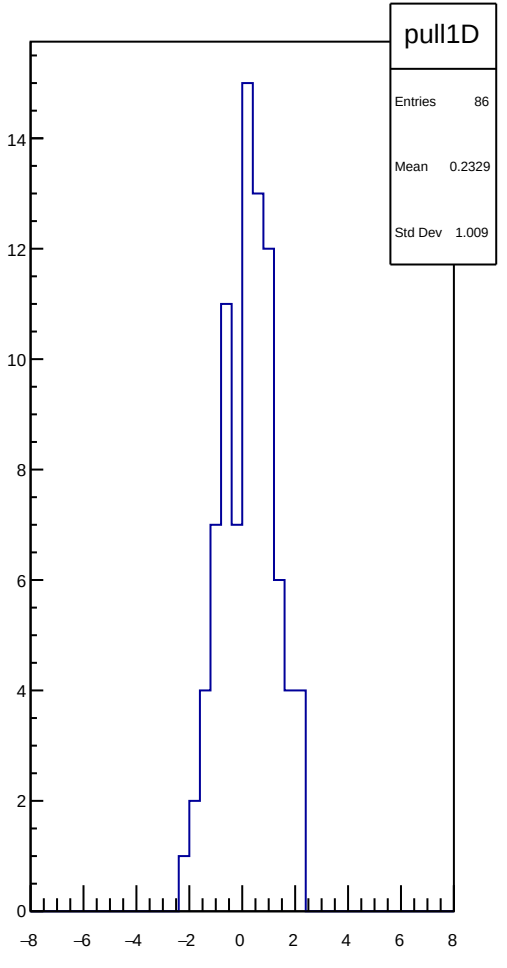

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2738 / 85
p0 227.2 ± 0.1752
250
240
230
220
210

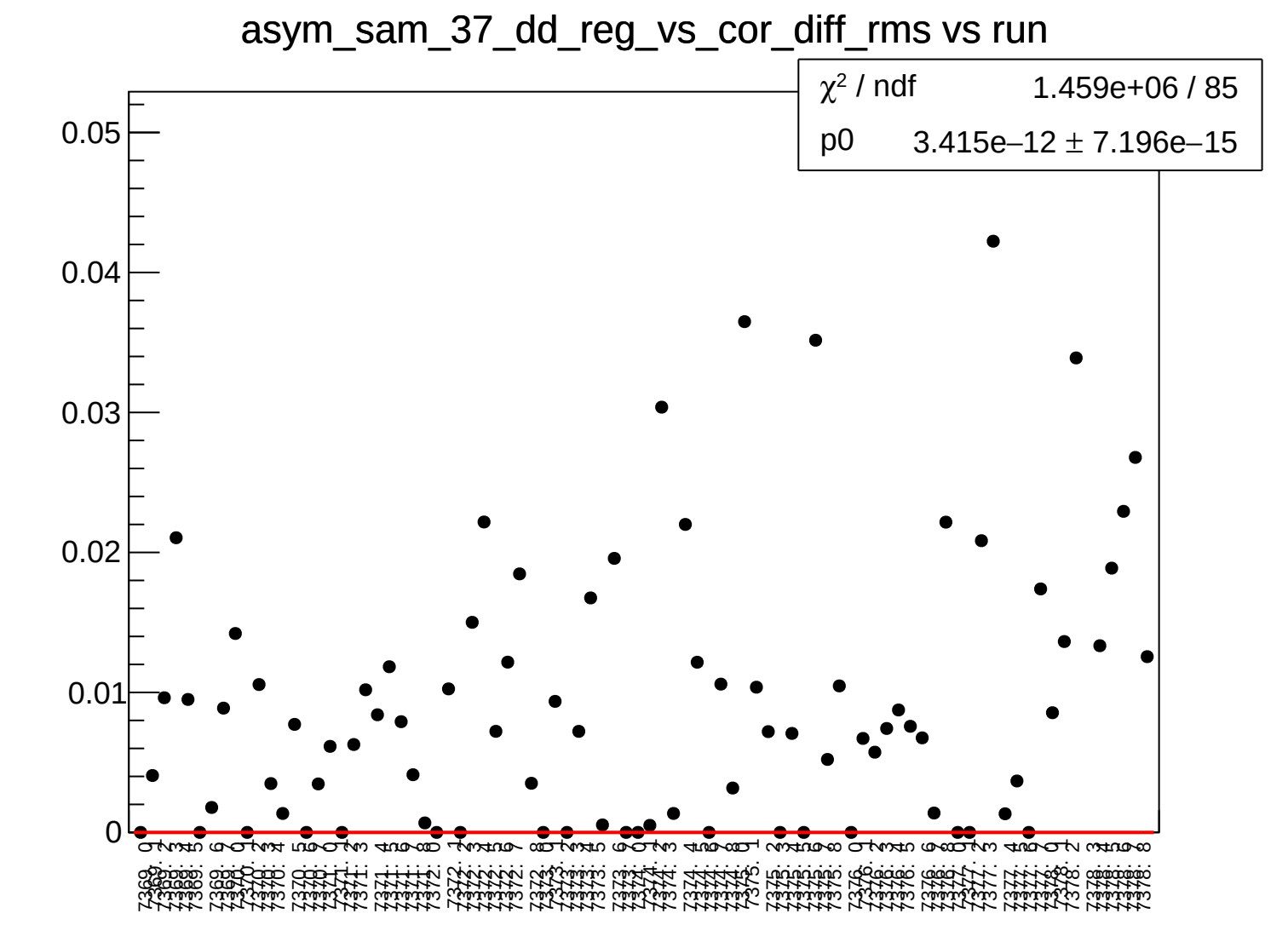

asym_sam_37_dd_mean vs run
χ² / ndf 83.33 / 85
p0 −64.92 ± 269.4
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −82.71
Std Dev 0
2
1
0
−1
−2

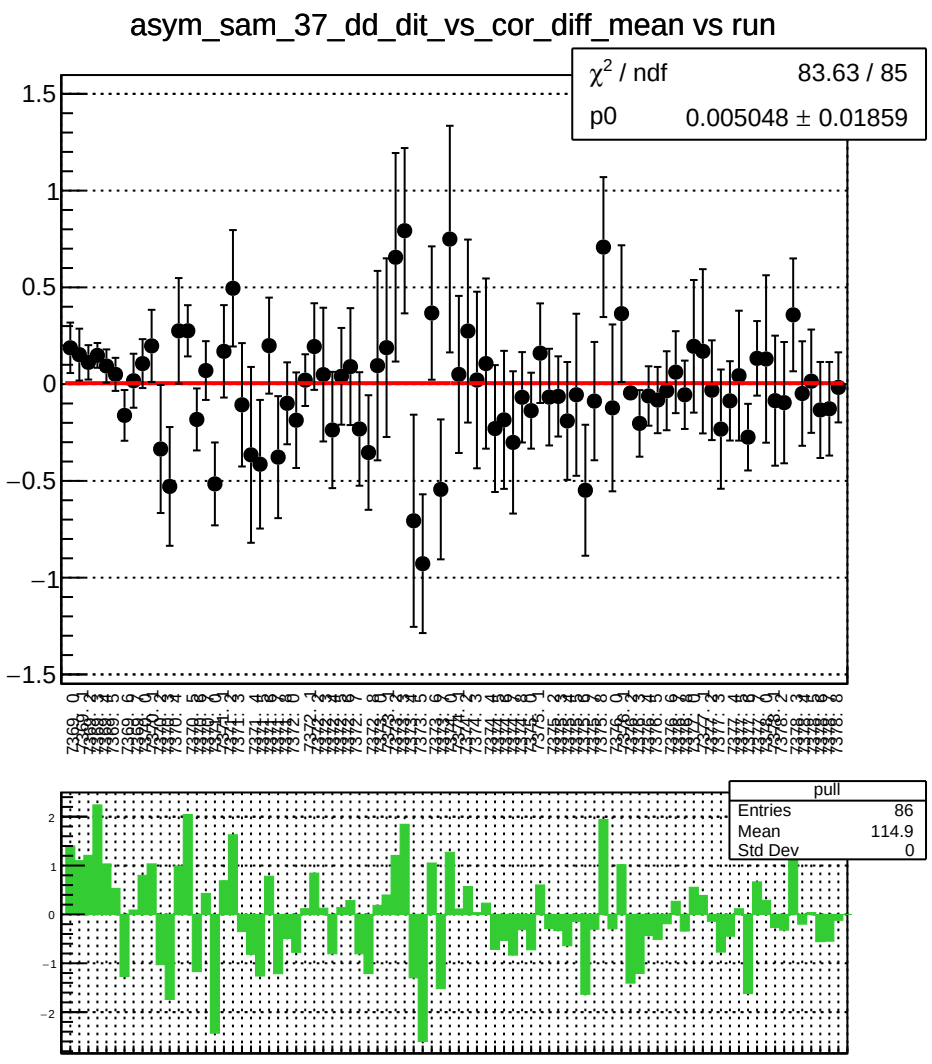

pull1D
Entries 86
Mean 0.009475
Std Dev 0.9843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

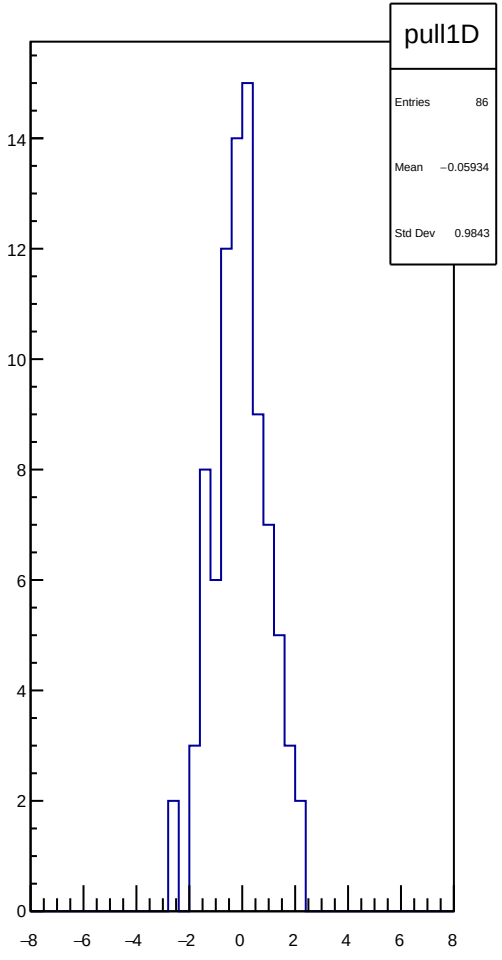

asym_sam_37_dd_rms vs run
χ² / ndf 9931 / 85
p0 246.5 ± 0.1905
300
280
260
240
220
200

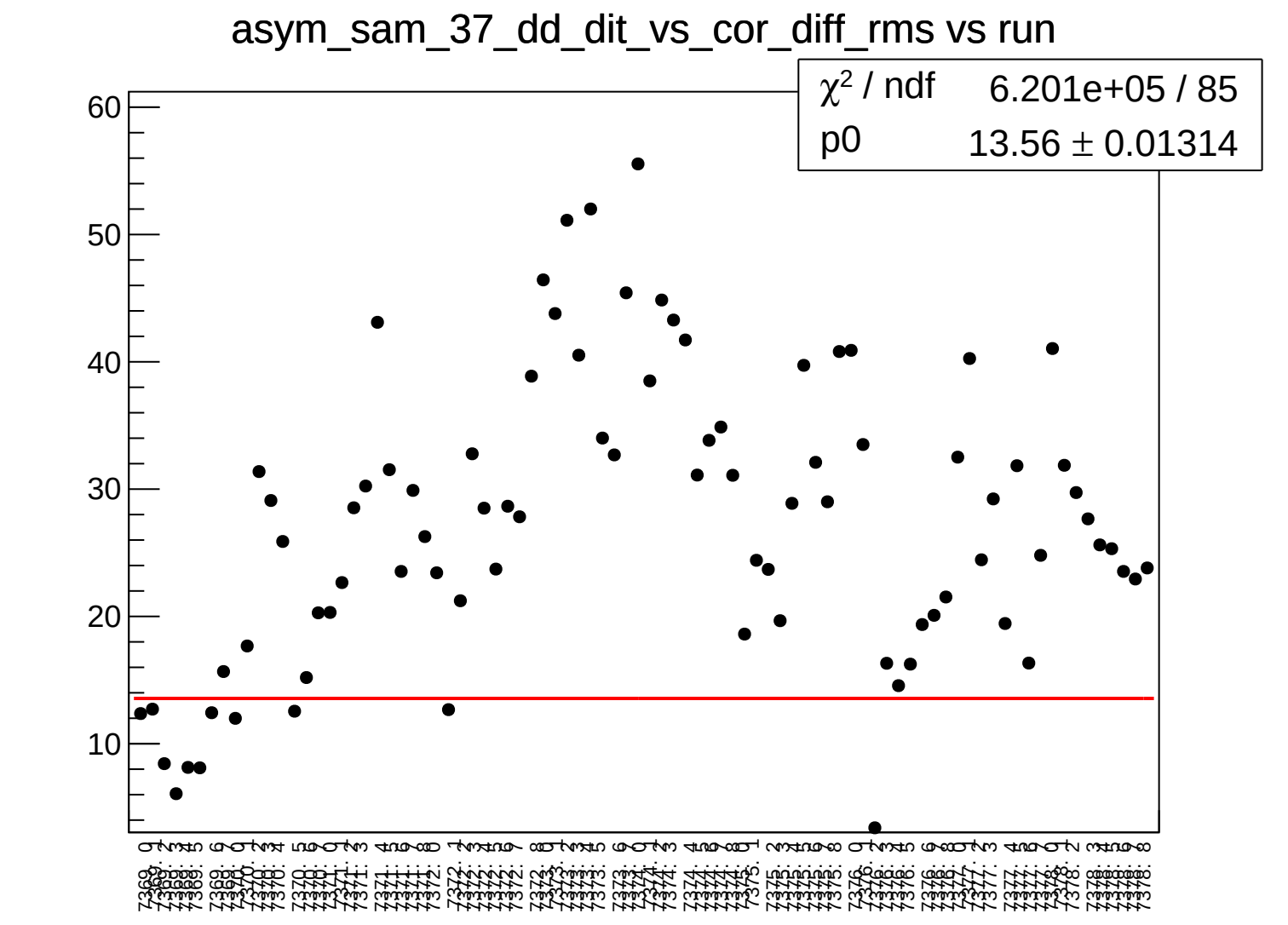

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.24 / 85
p0 1.307e−14 ± 1.018e−14
pull
Entries 86
Mean 51.43
Std Dev 26.25

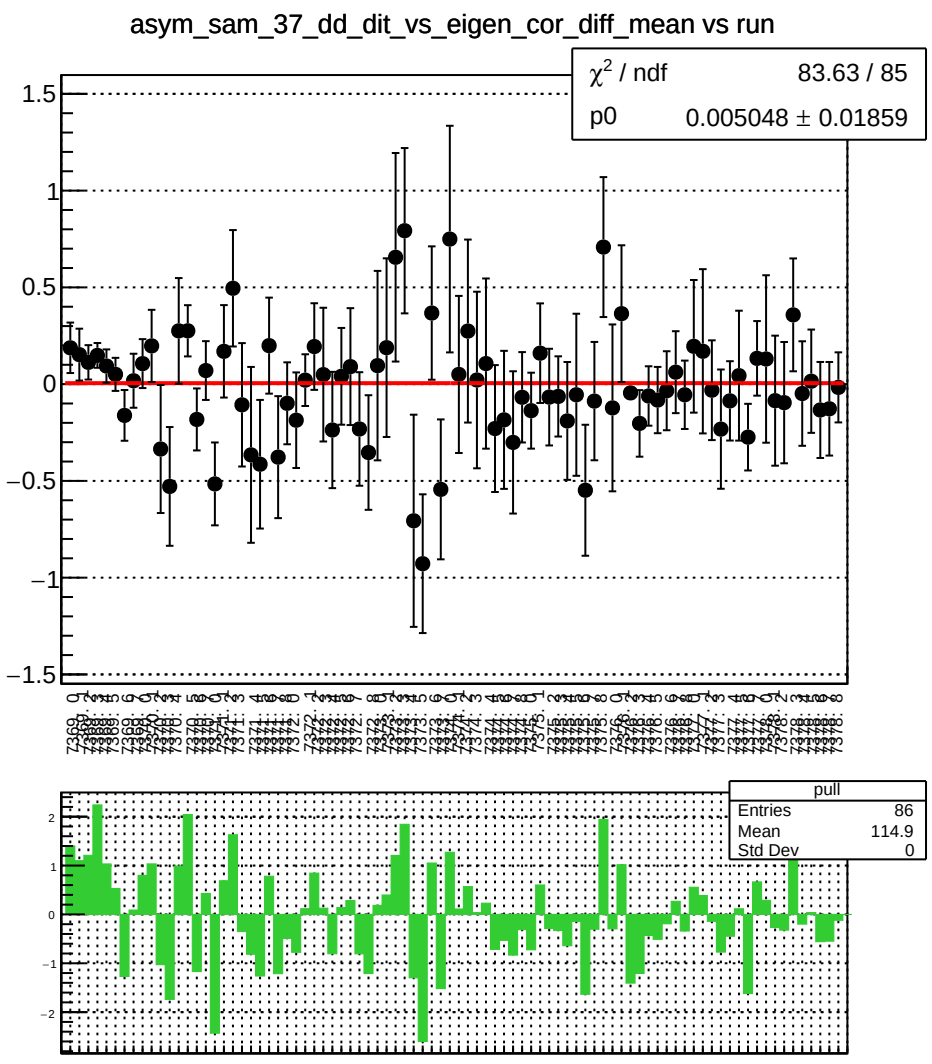

pull1D
Entries 86
Mean 0.2329
Std Dev 1.009

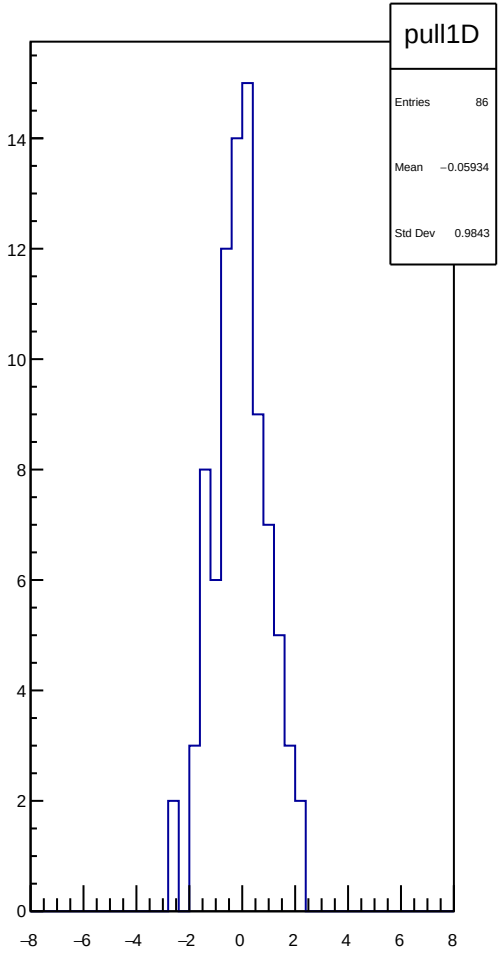

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.459e+06 / 85
p0 3.415e−12 ± 7.196e−15
0.05
0.04
0.03
0.02
0.01
0

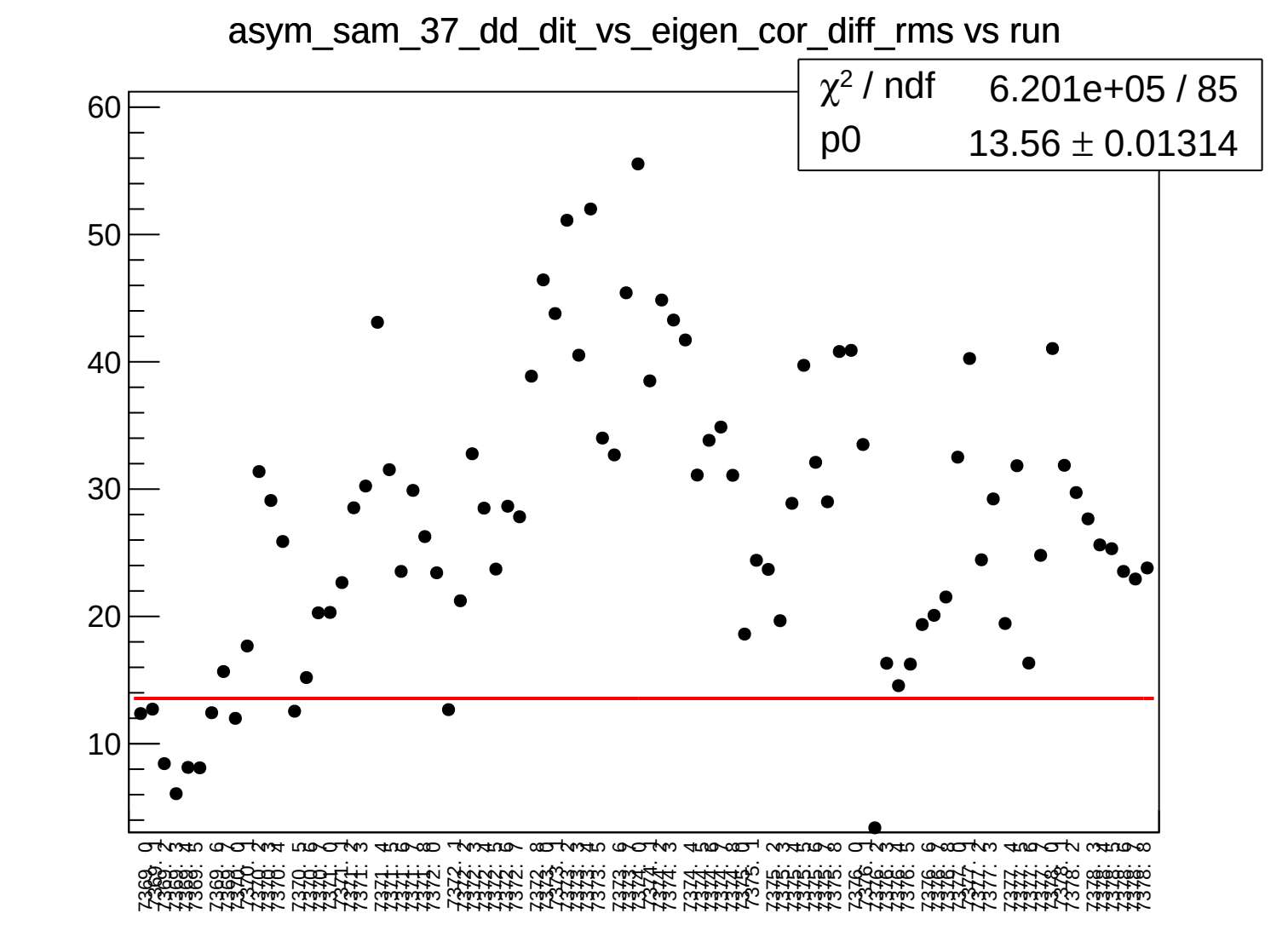

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.63 / 85
p0 0.005048 ± 0.01859
pull
Entries 86
Mean 114.9
Std Dev 0

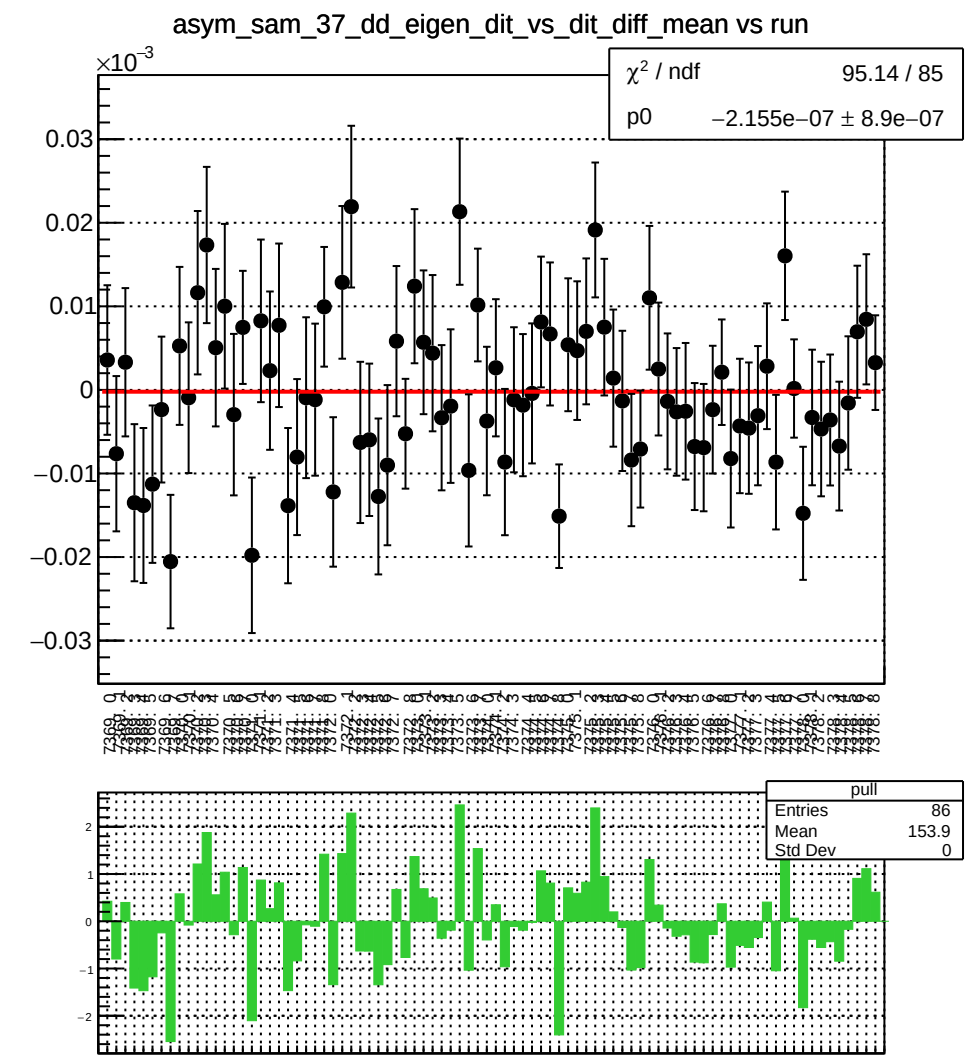

pull1D
Entries 86
Mean −0.05934
Std Dev 0.9843

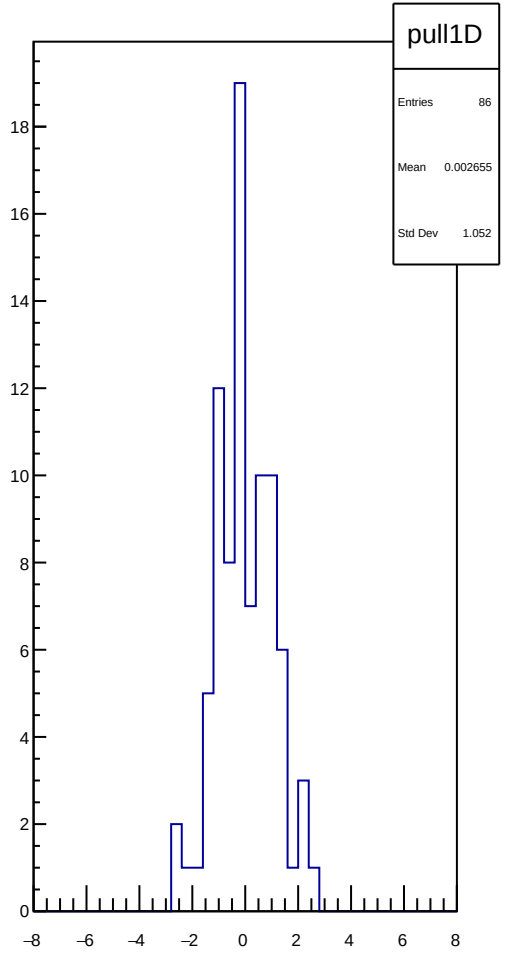

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.201e+05 / 85
p0 13.56 ± 0.01314
60
50
40
30
20
10

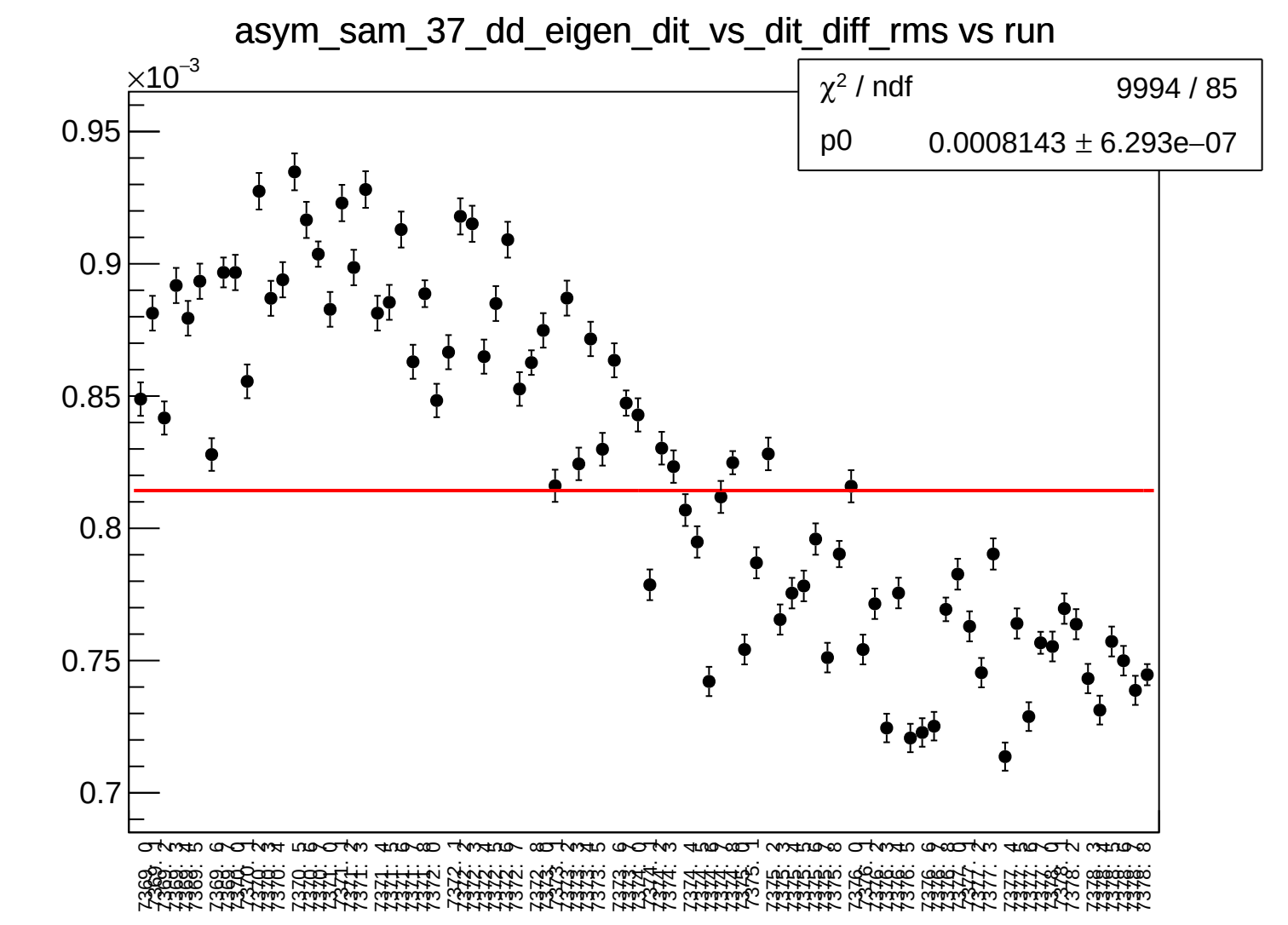

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.63 / 85
p0 0.005048 ± 0.01859
pull
Entries 86
Mean 114.9
Std Dev 0

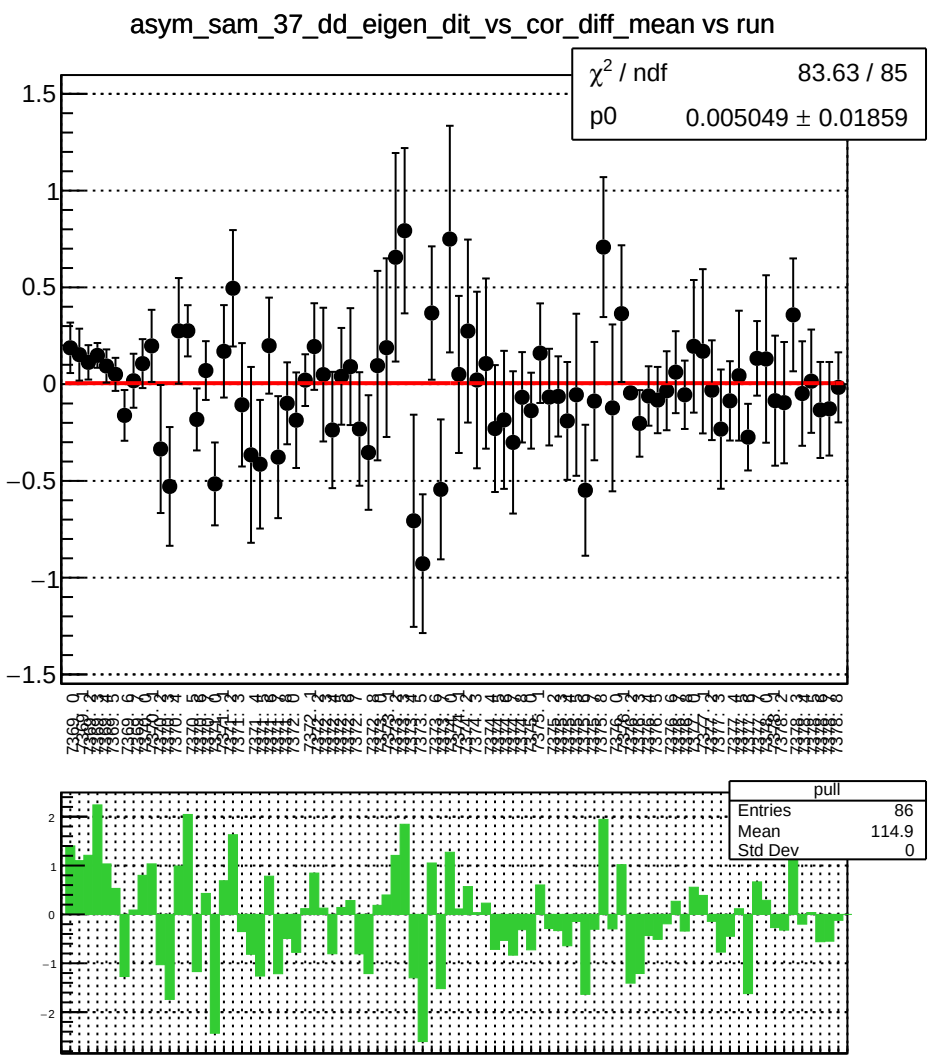

pull1D
Entries 86
Mean −0.05934
Std Dev 0.9843

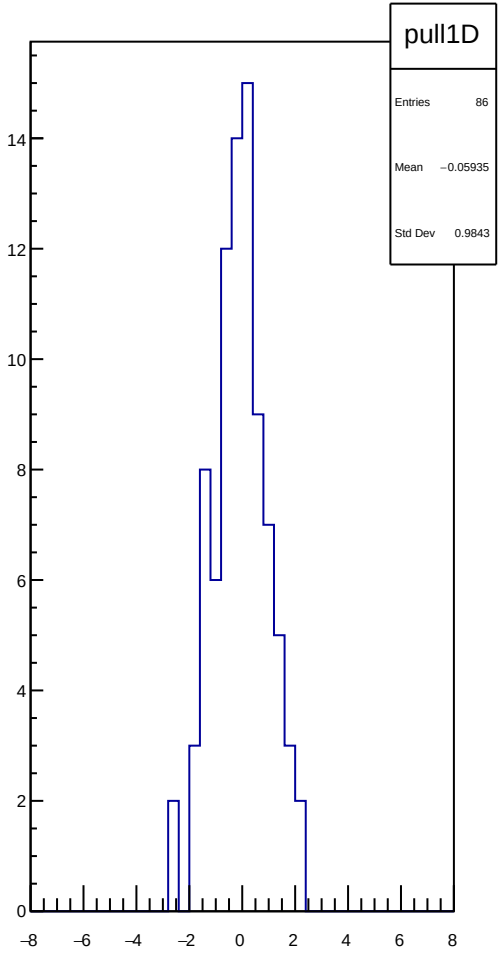

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.201e+05 / 85
p0 13.56 ± 0.01314
60
50
40
30
20
10

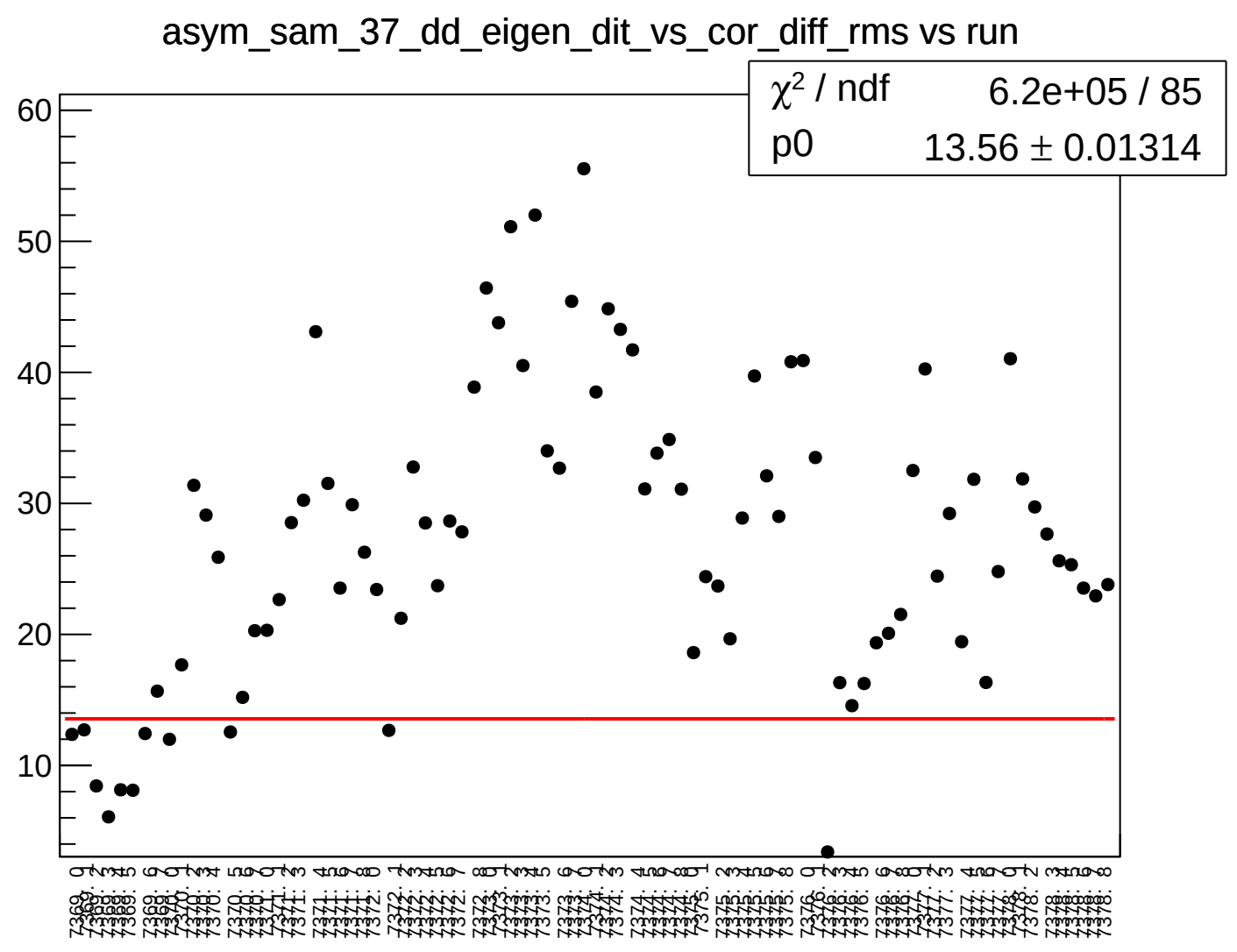

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.14 / 85
p0 −2.155e−07 ± 8.9e−07
pull
Entries 86
Mean 153.9
Std Dev 0

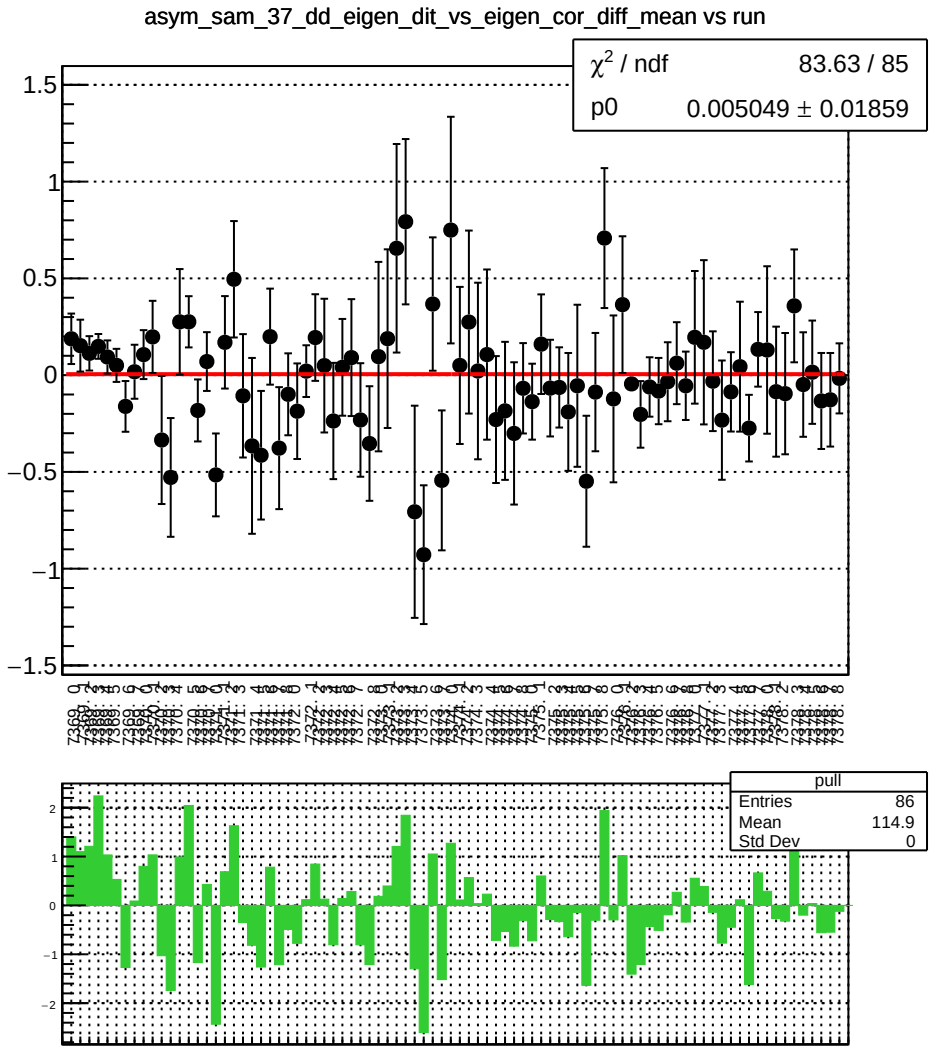

pull1D
Entries 86
Mean 0.002655
Std Dev 1.052

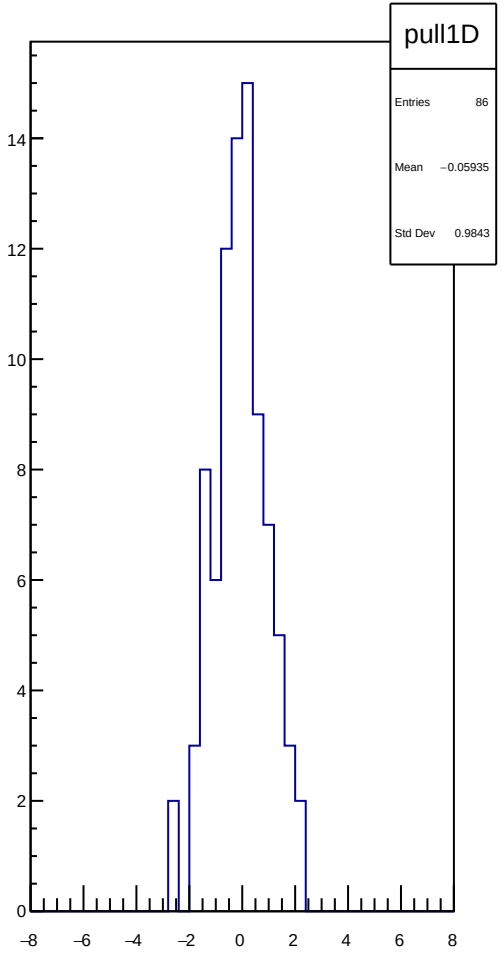

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 9994 / 85
p0 0.0008143 ± 6.293e−07
0.95
0.9
0.85
0.8
0.75
0.7

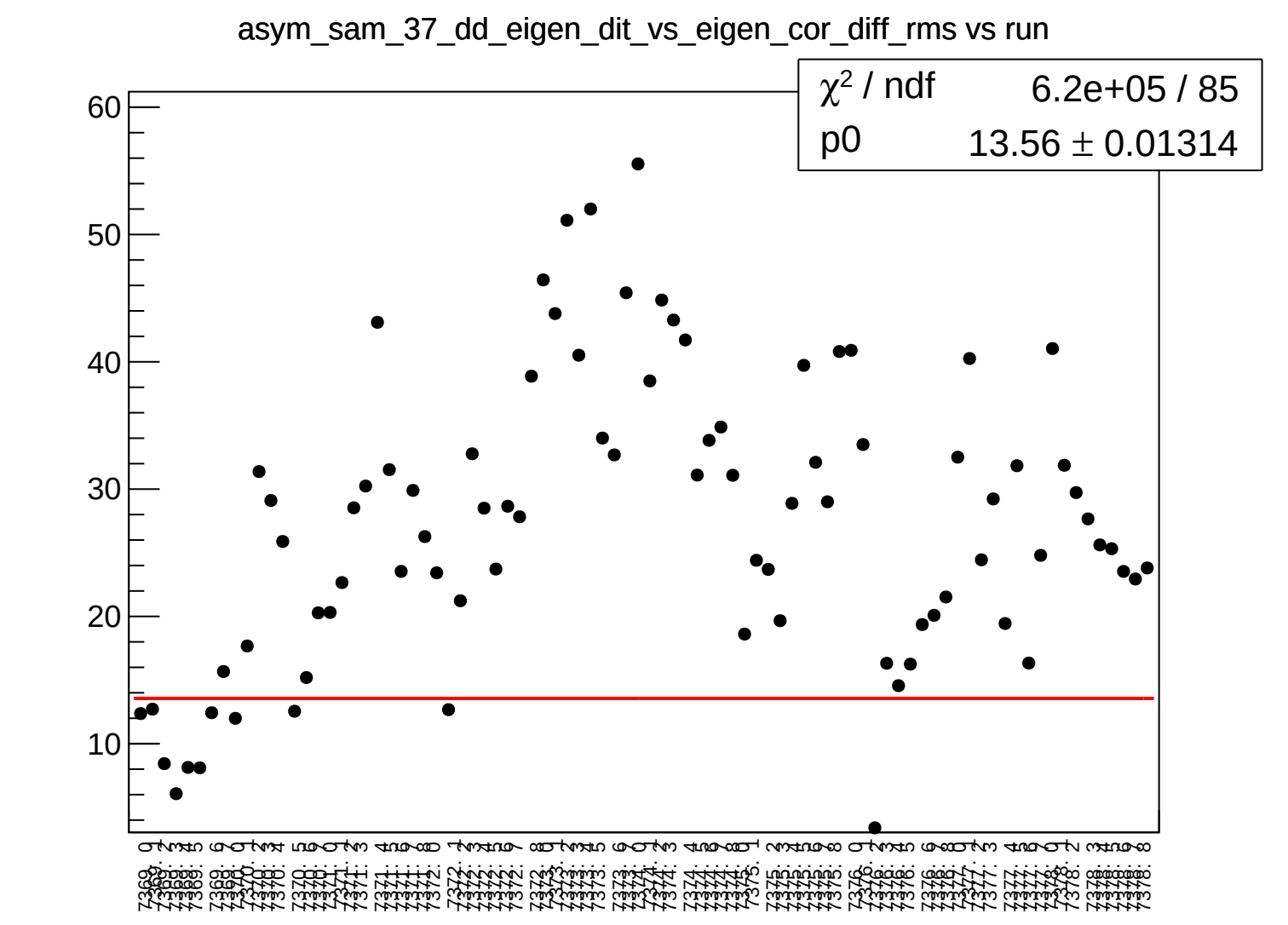

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.63 / 85
p0 0.005049 ± 0.01859
pull
Entries 86
Mean 114.9
Std Dev 0

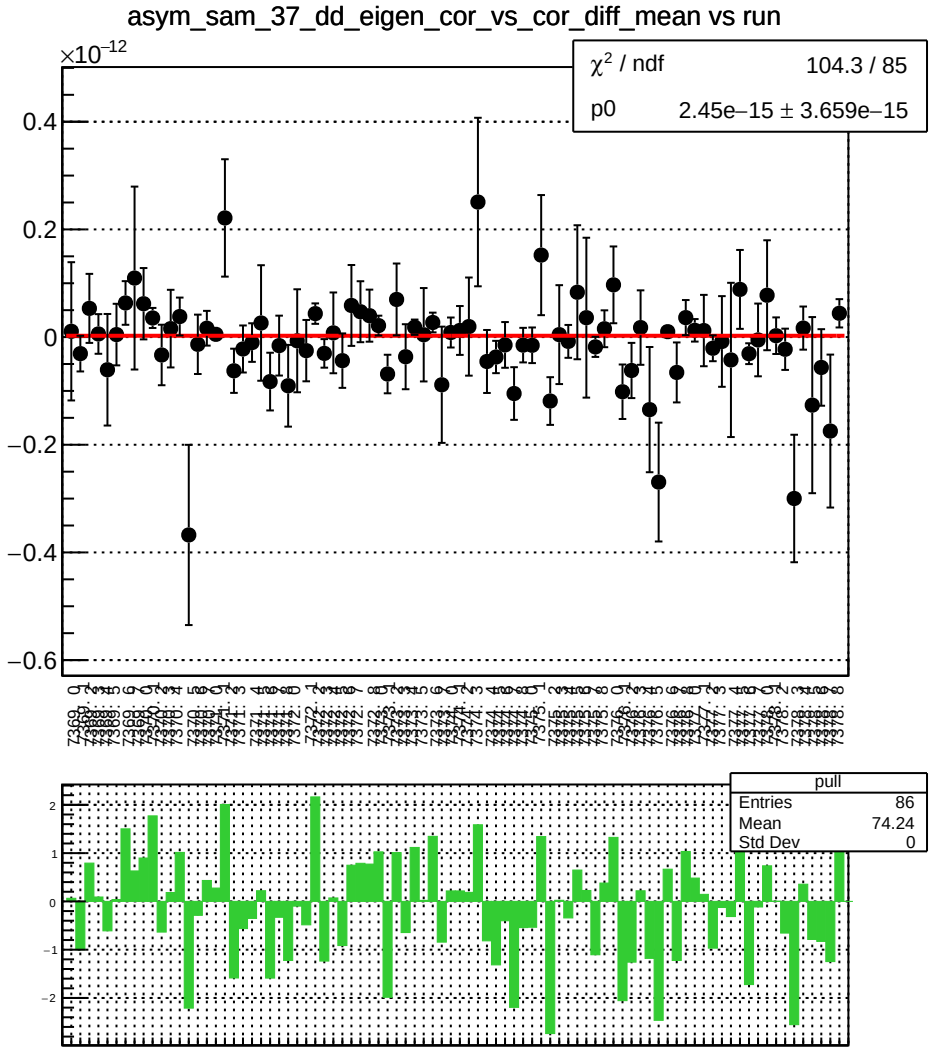

pull1D
Entries 86
Mean −0.05935
Std Dev 0.9843

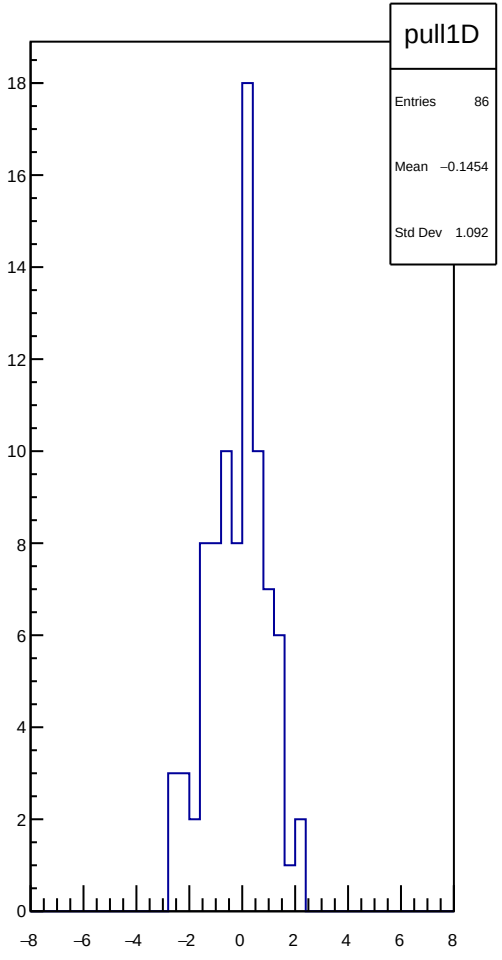

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.2e+05 / 85
p0 13.56 ± 0.01314
60
50
40
30
20
10

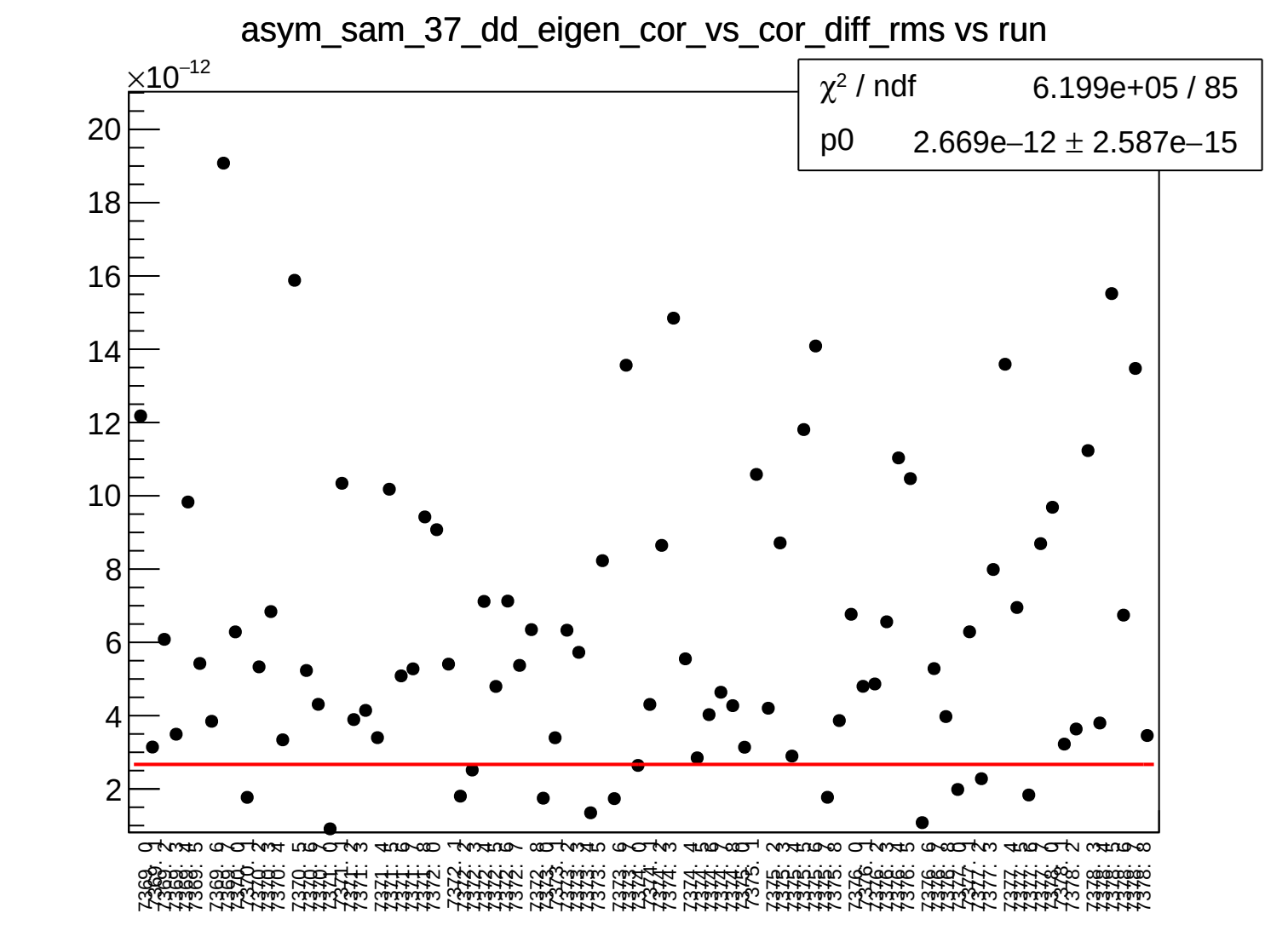

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.63 / 85
p0 0.005049 ± 0.01859
pull
Entries 86
Mean 114.9
Std Dev 0

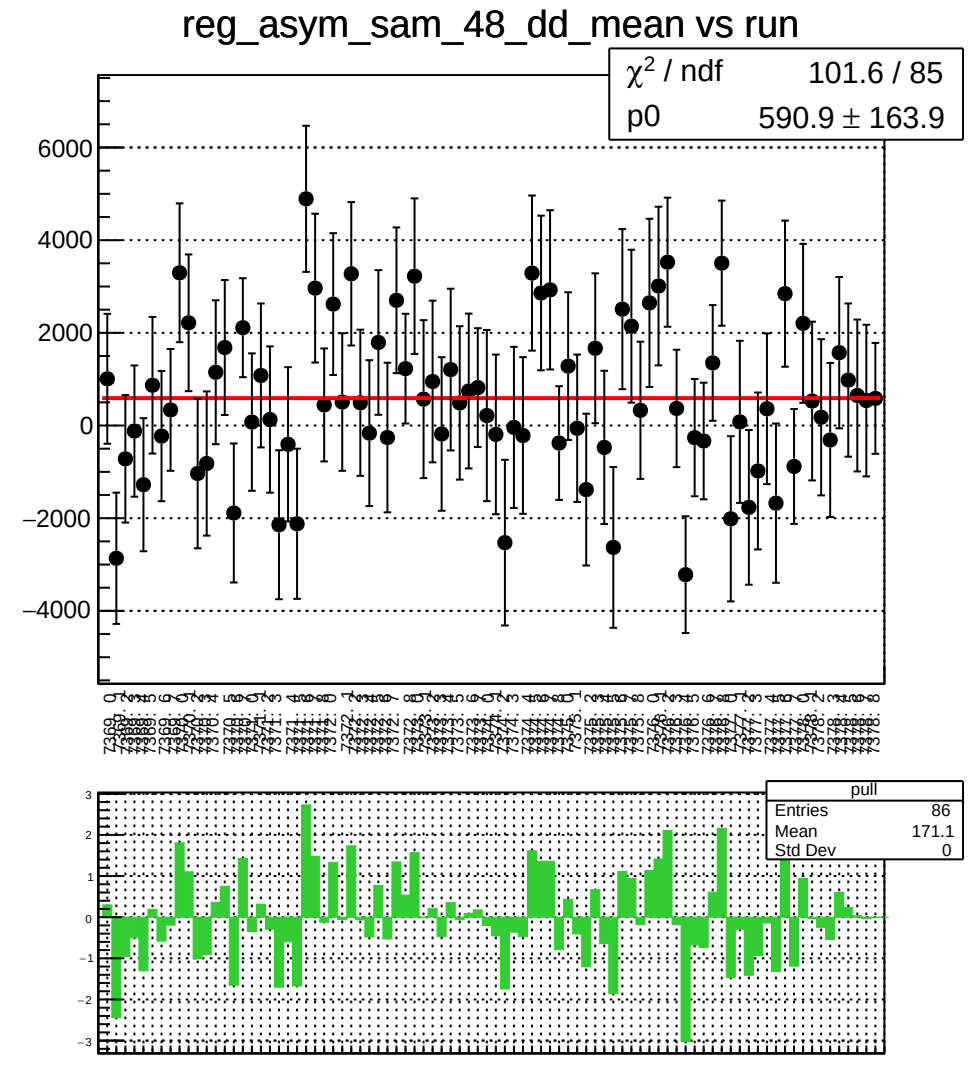

pull1D
Entries 86
Mean −0.05935
Std Dev 0.9843

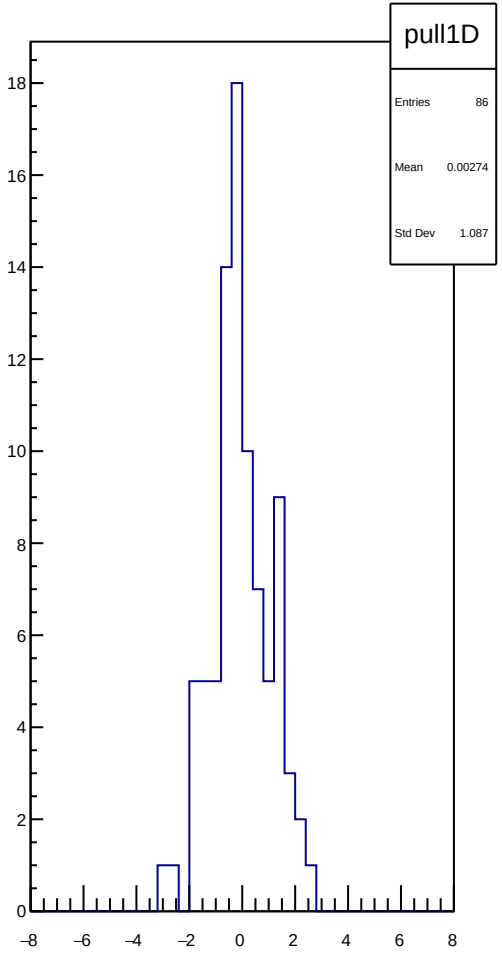

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.2e+05 / 85
p0 13.56 ± 0.01314
60
50
40
30
20
10

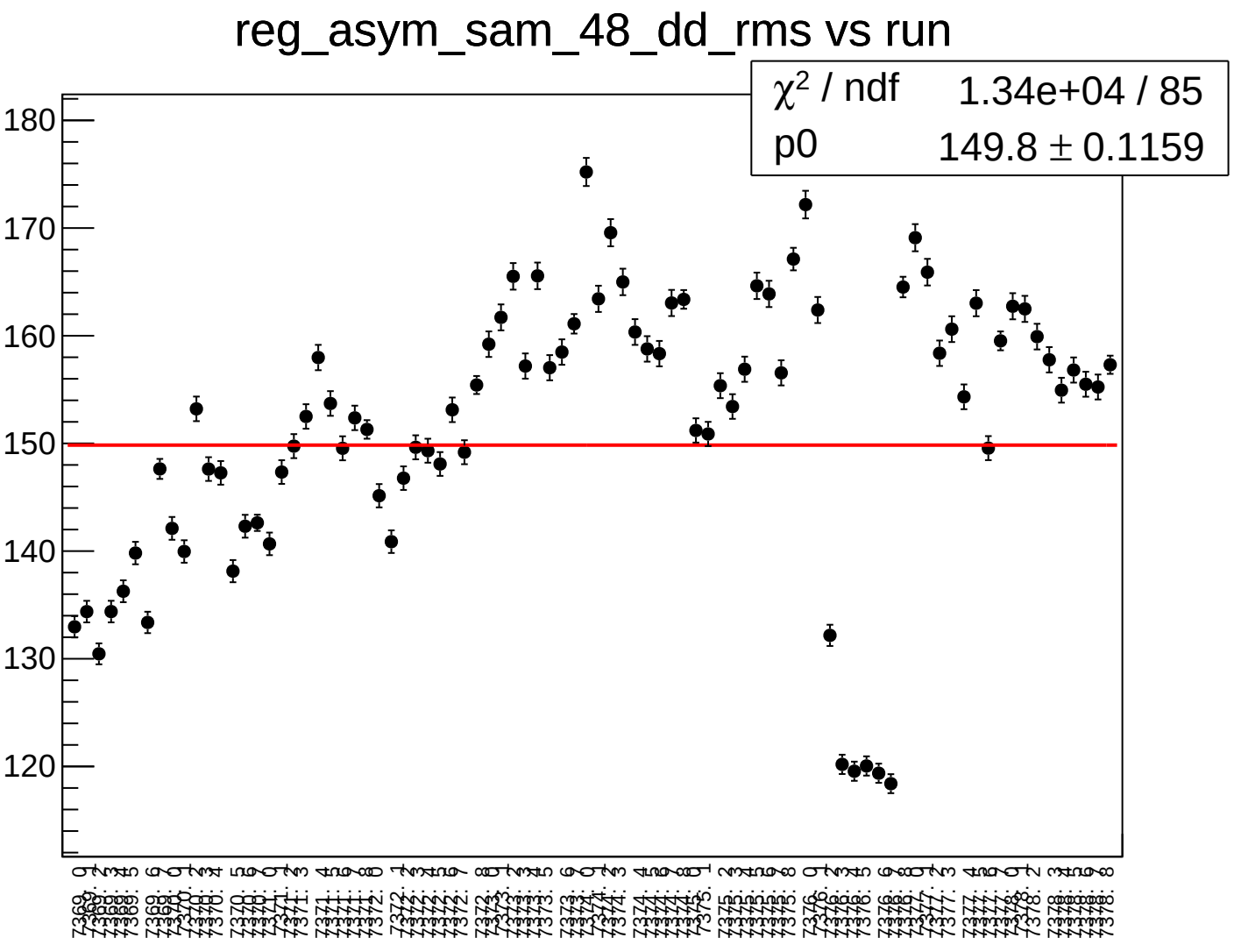

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.3 / 85
p0 2.45e−15 ± 3.659e−15
pull
Entries 86
Mean 74.24
Std Dev 0

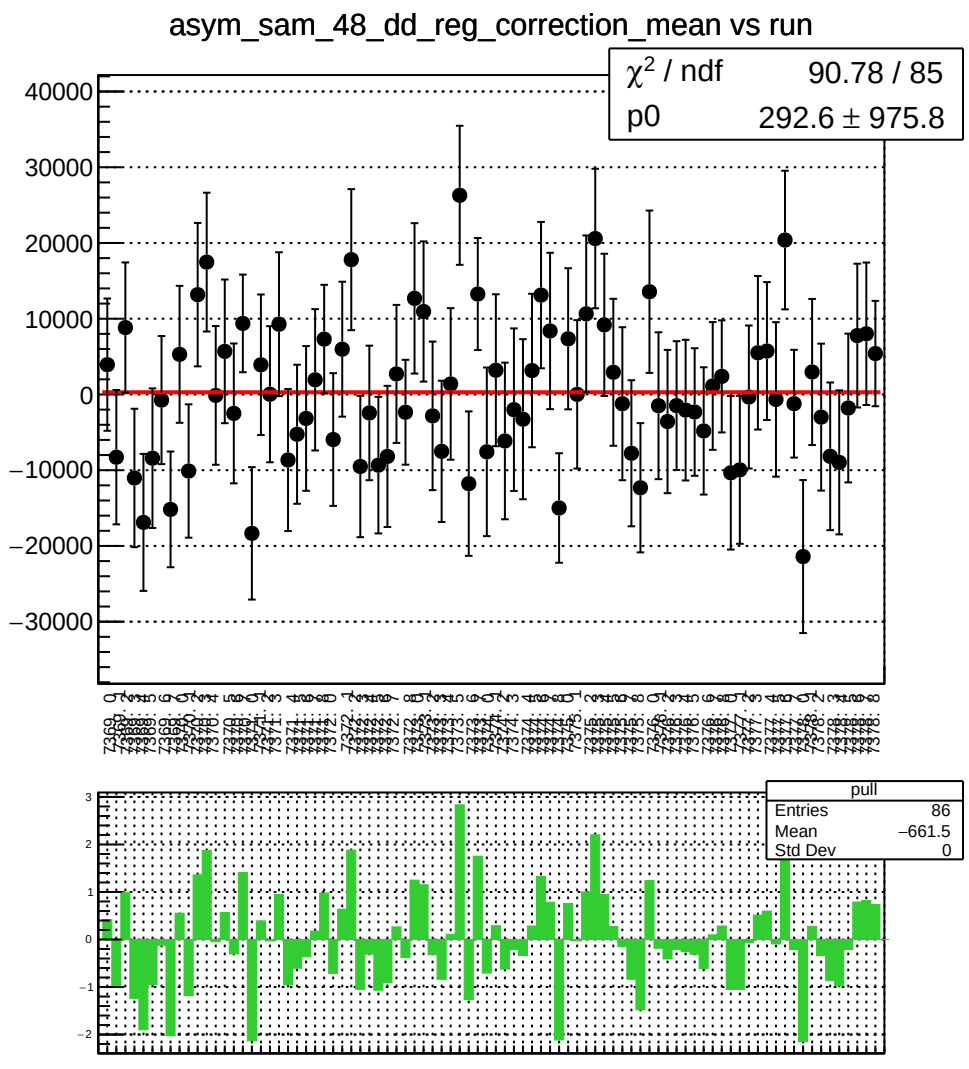

pull1D
Entries 86
Mean −0.1454
Std Dev 1.092

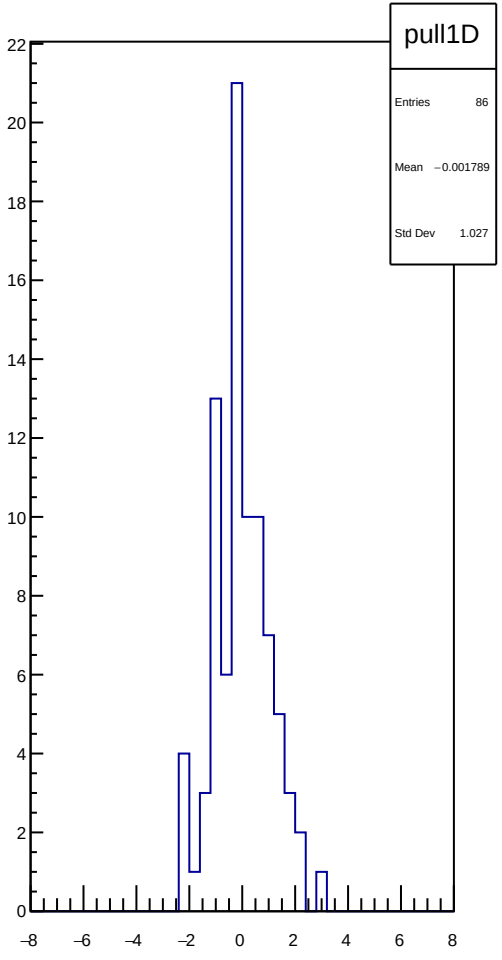

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.199e+05 / 85
p0 2.669e−12 ± 2.587e−15
20
18
16
14
12
10
8
6
4
2

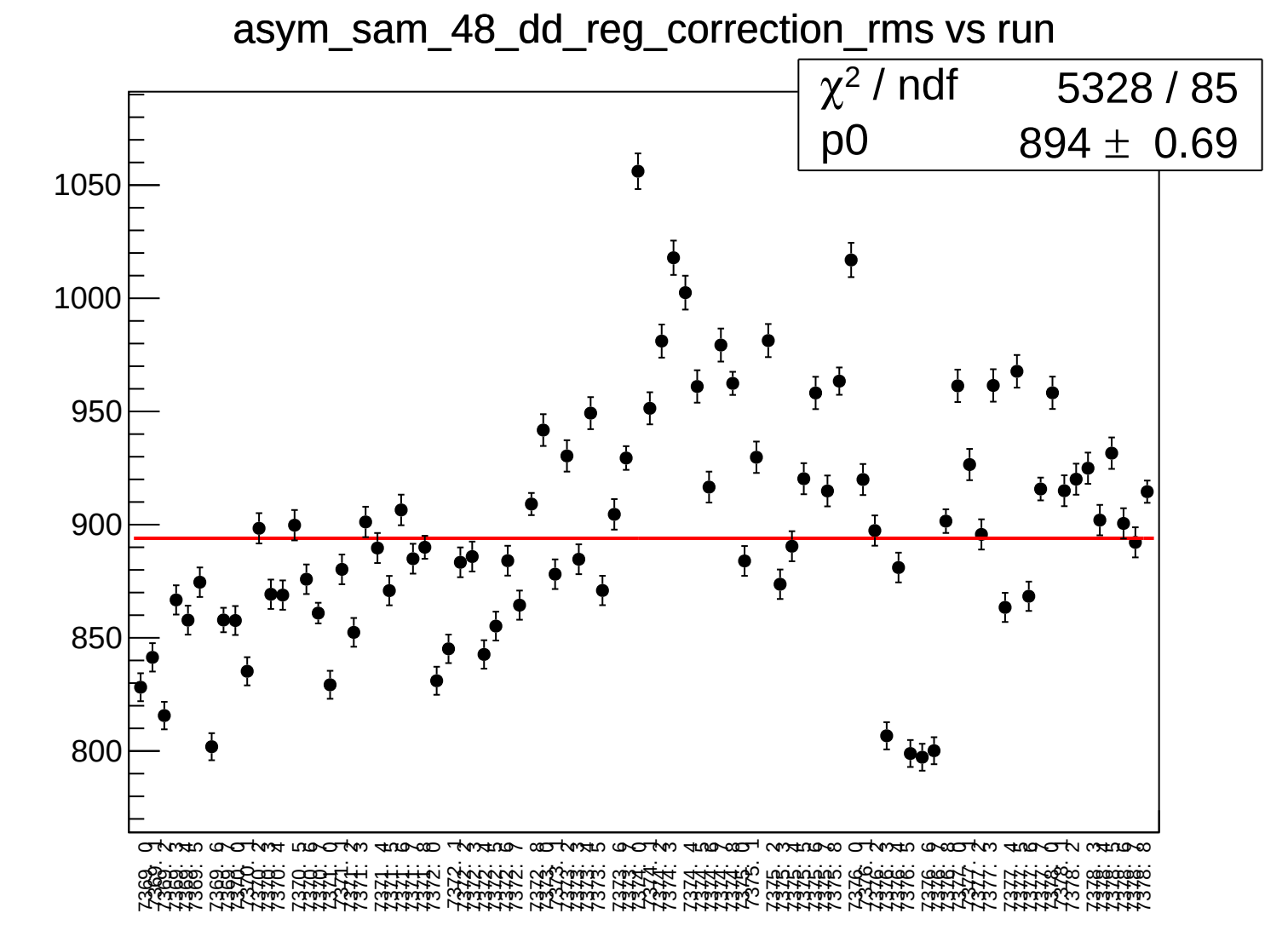

reg_asym_sam_48_dd_mean vs run
χ² / ndf 101.6 / 85
p0 590.9 ± 163.9
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 171.1
Std Dev 0
3
2
1
0
−1
−2
−3

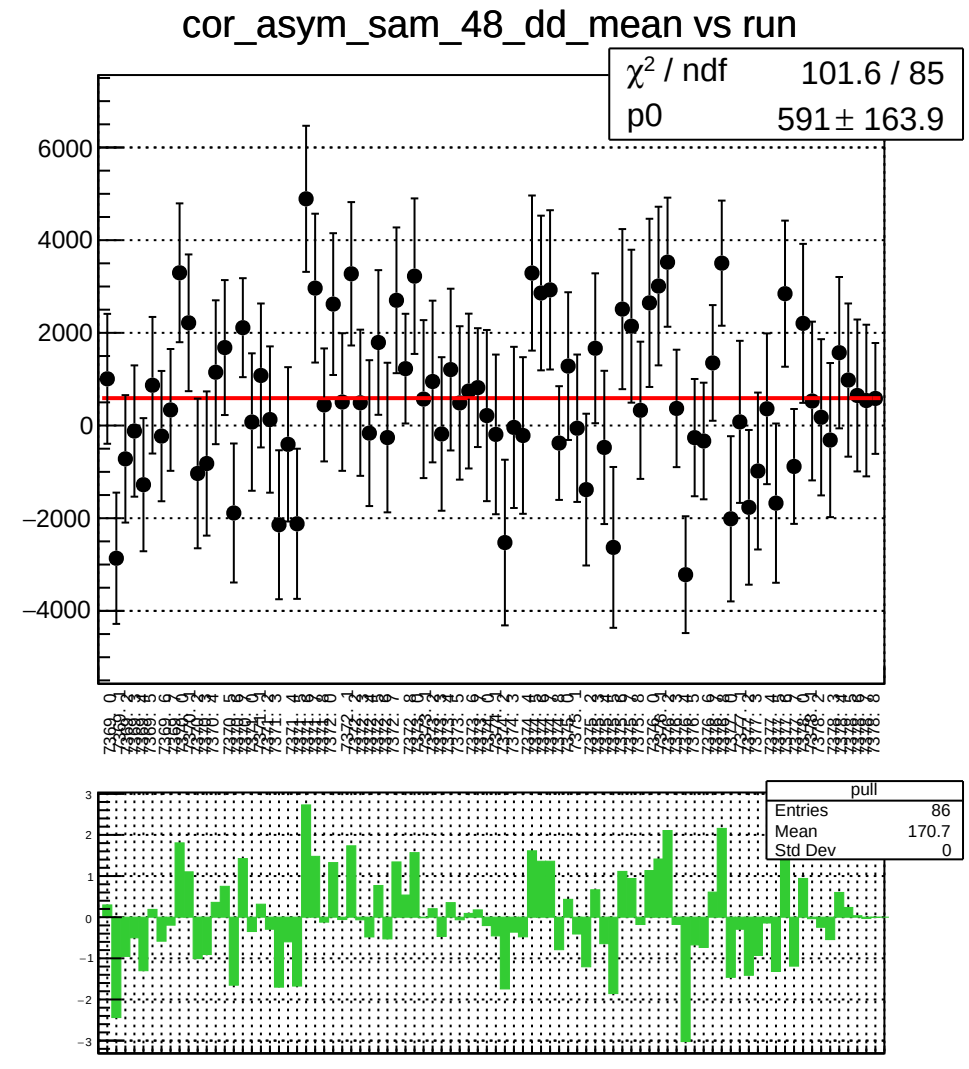

pull1D
Entries 86
Mean 0.00274
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

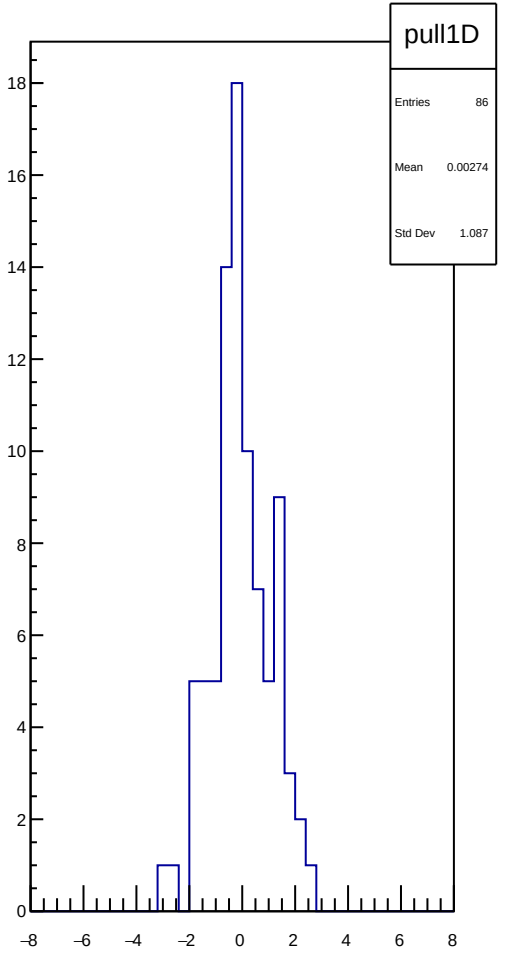

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.34e+04 / 85
p0 149.8 ± 0.1159
180
170
160
150
140
130
120

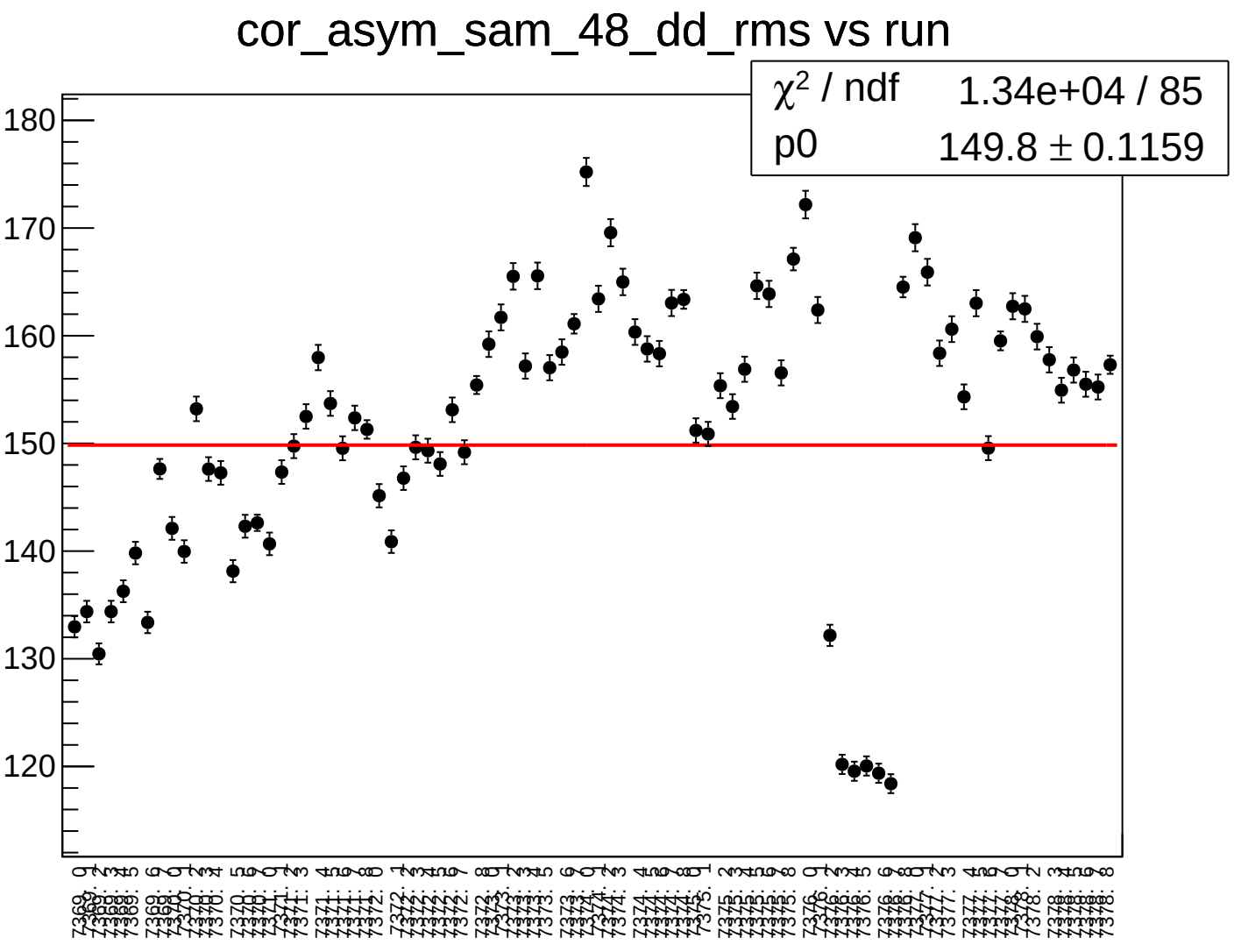

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 90.78 / 85
p0 292.6 ± 975.8
pull
Entries 86
Mean −661.5
Std Dev 0

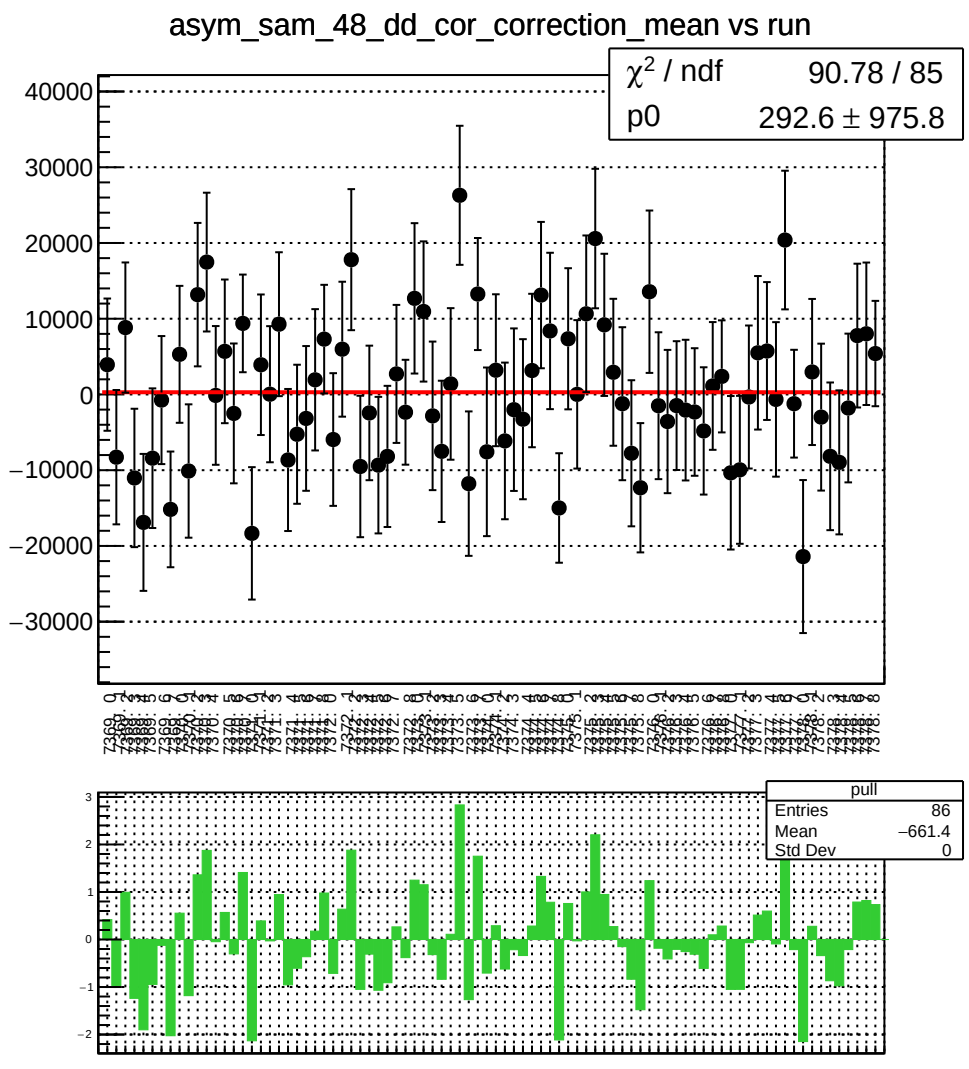

pull1D
Entries 86
Mean −0.001789
Std Dev 1.027

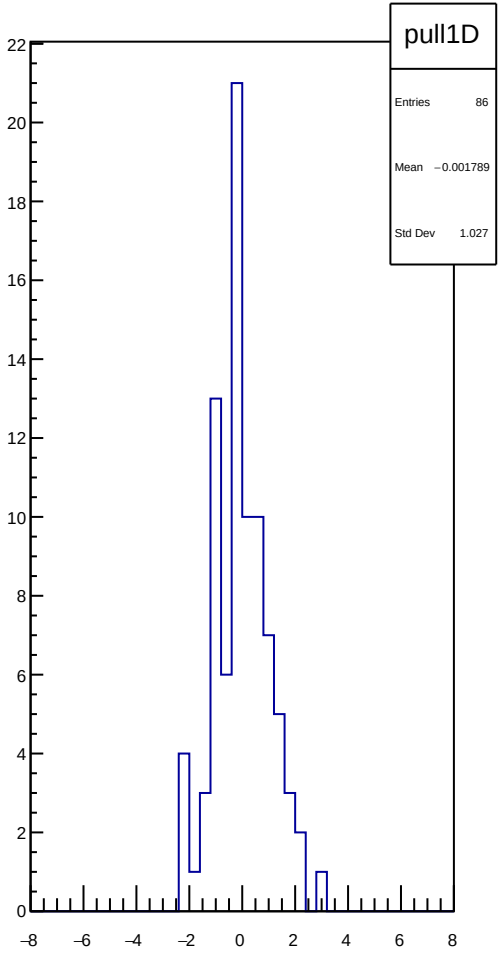

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 5328 / 85
p0 894 ± 0.69
1050
1000
950
900
850
800

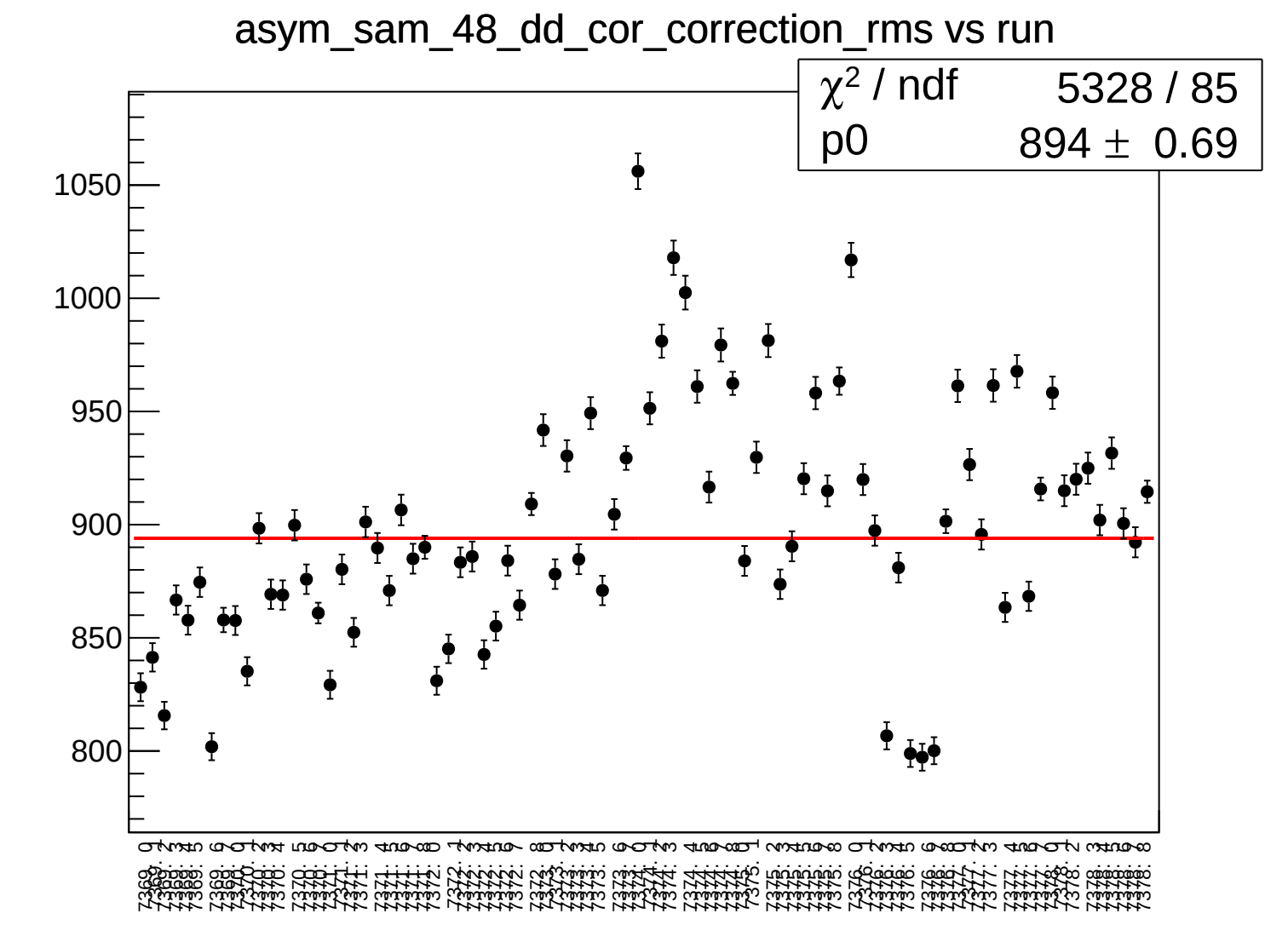

cor_asym_sam_48_dd_mean vs run
χ² / ndf 101.6 / 85
p0 591 ± 163.9
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 170.7
Std Dev 0
3
2
1
0
−1
−2
−3

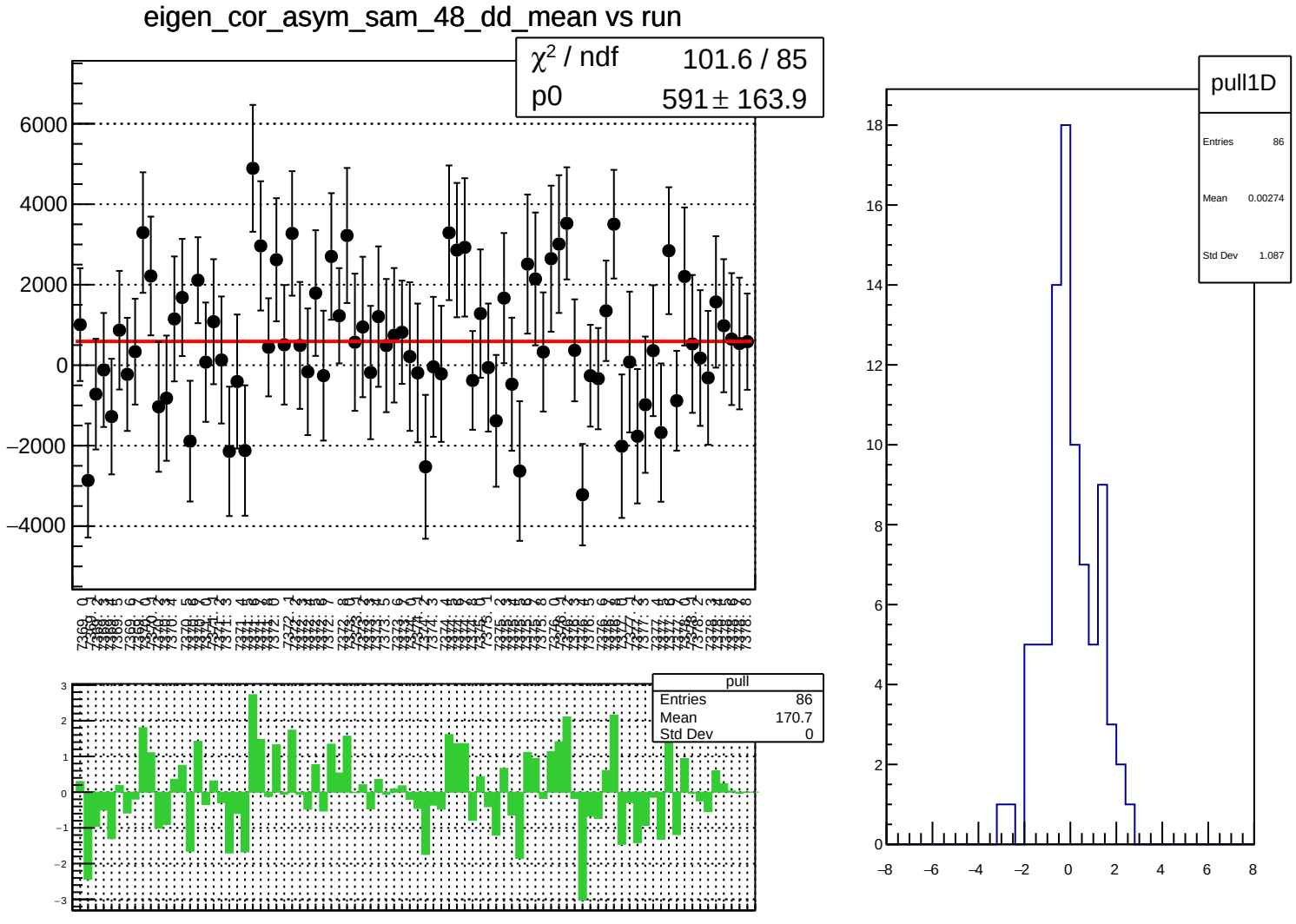

pull1D
Entries 86
Mean 0.00274
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

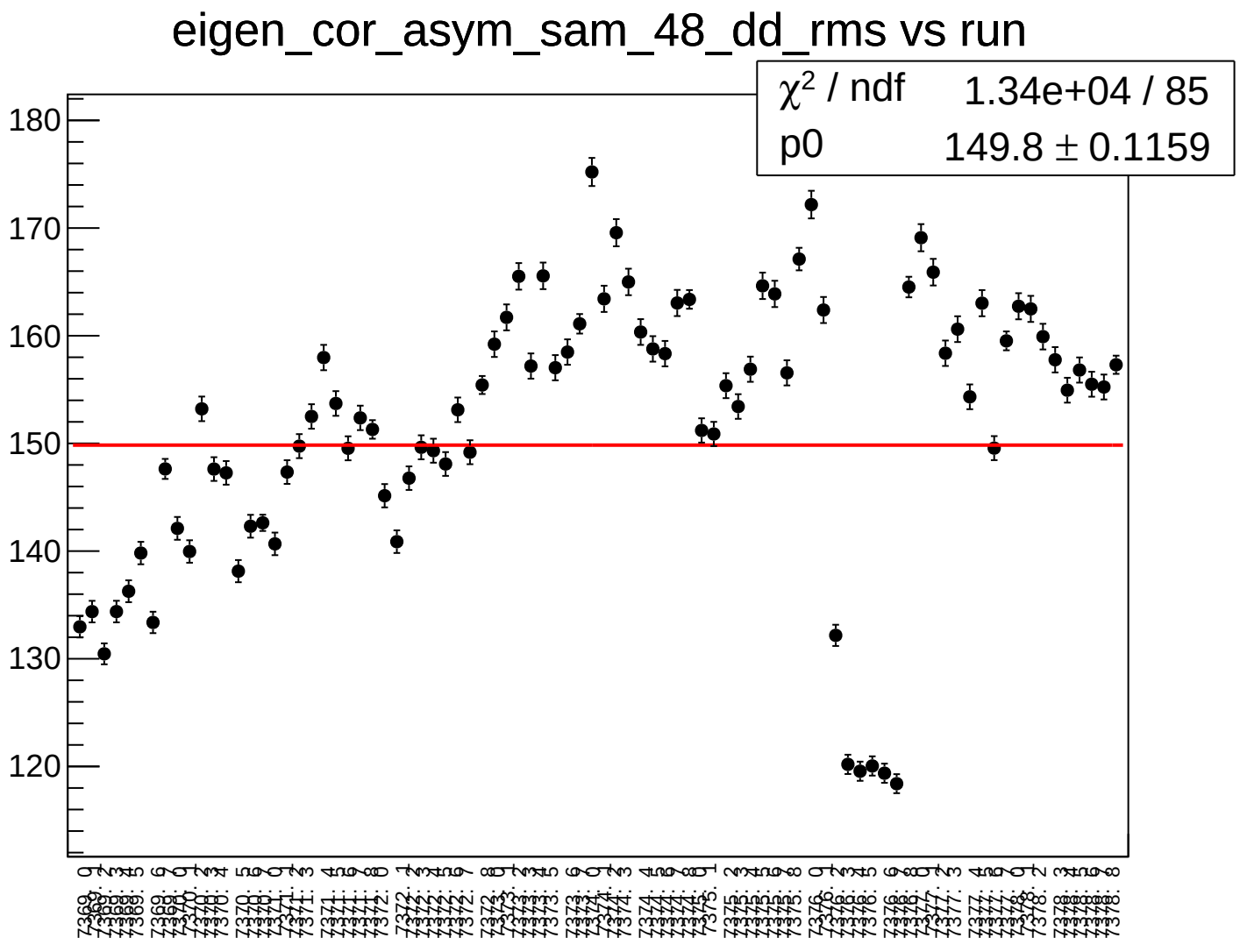

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.34e+04 / 85
p0 149.8 ± 0.1159
180
170
160
150
140
130
120

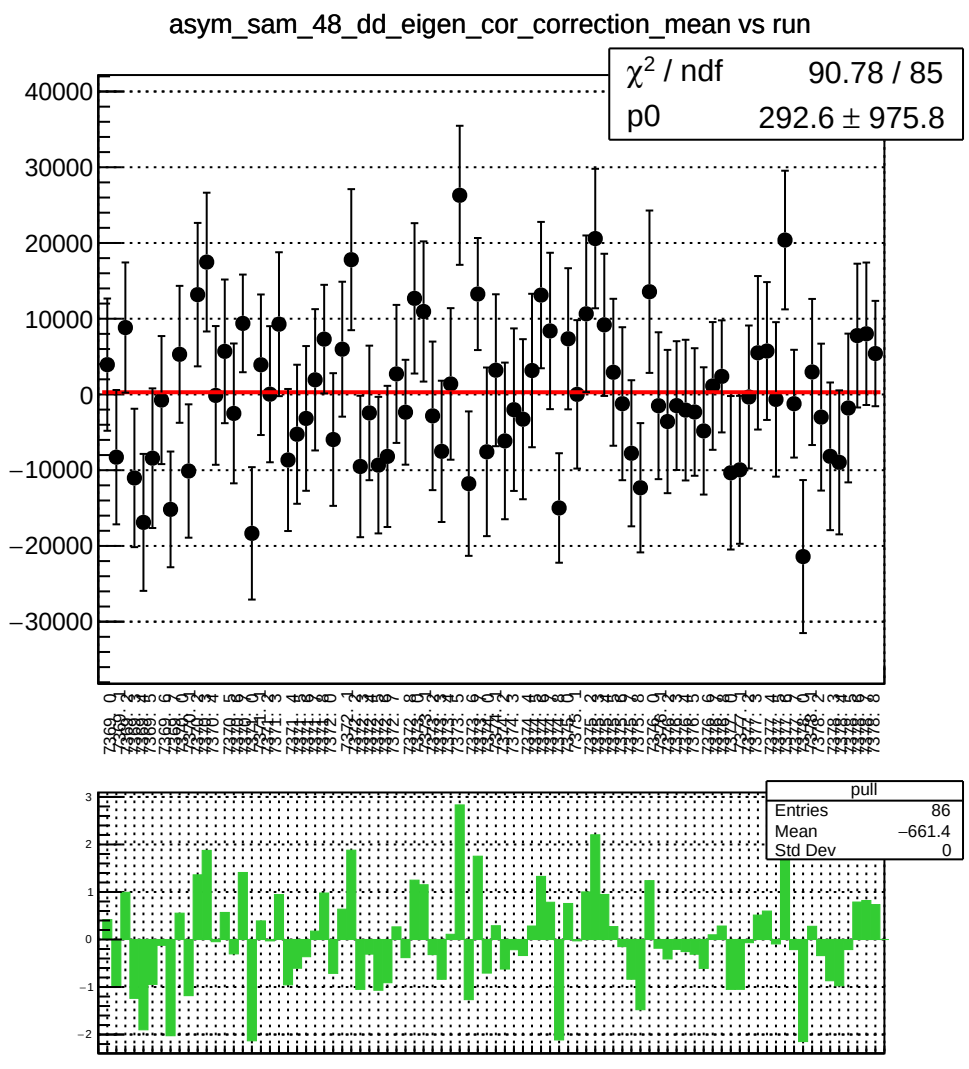

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 90.78 / 85
p0 292.6 ± 975.8
pull
Entries 86
Mean −661.4
Std Dev 0

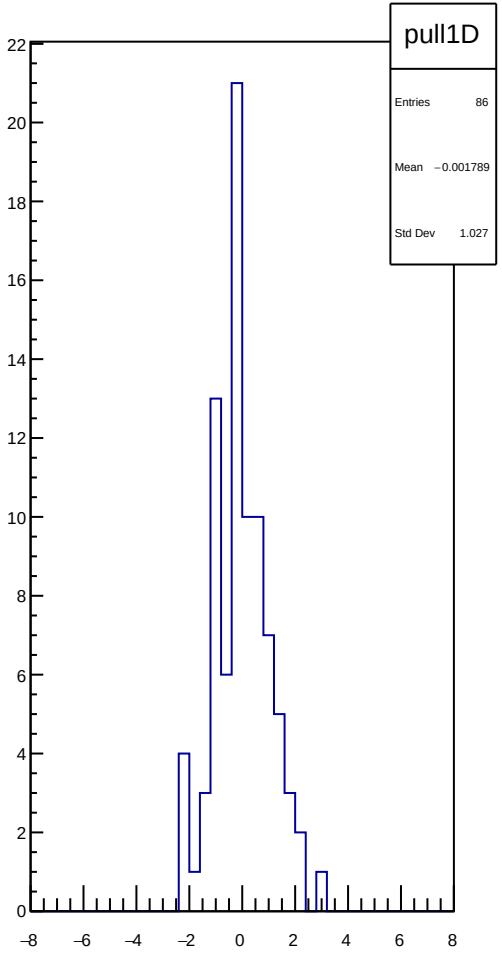

pull1D
Entries 86
Mean −0.001789
Std Dev 1.027

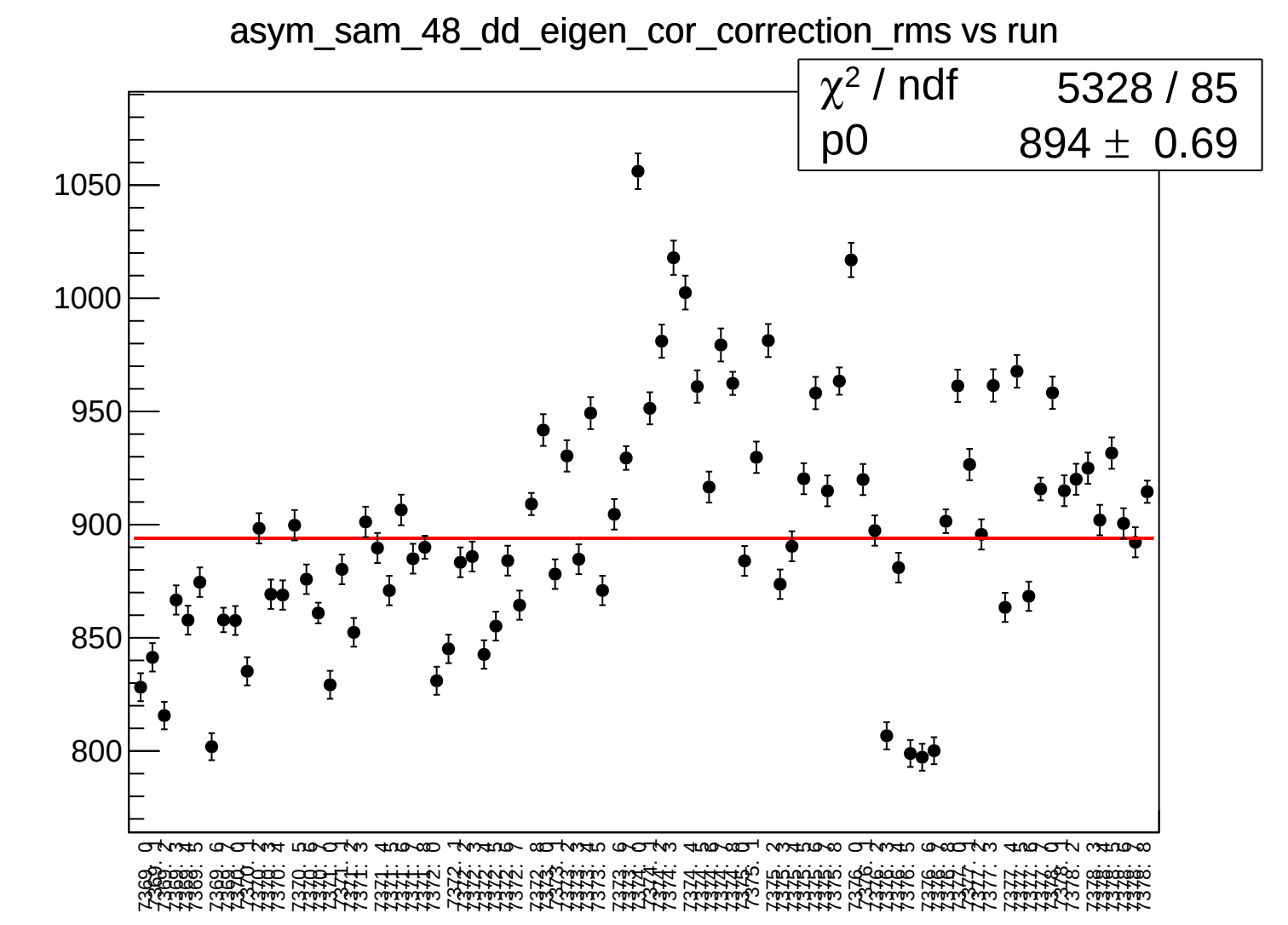

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 5328 / 85
p0 894 ± 0.69
1050
1000
950
900
850
800

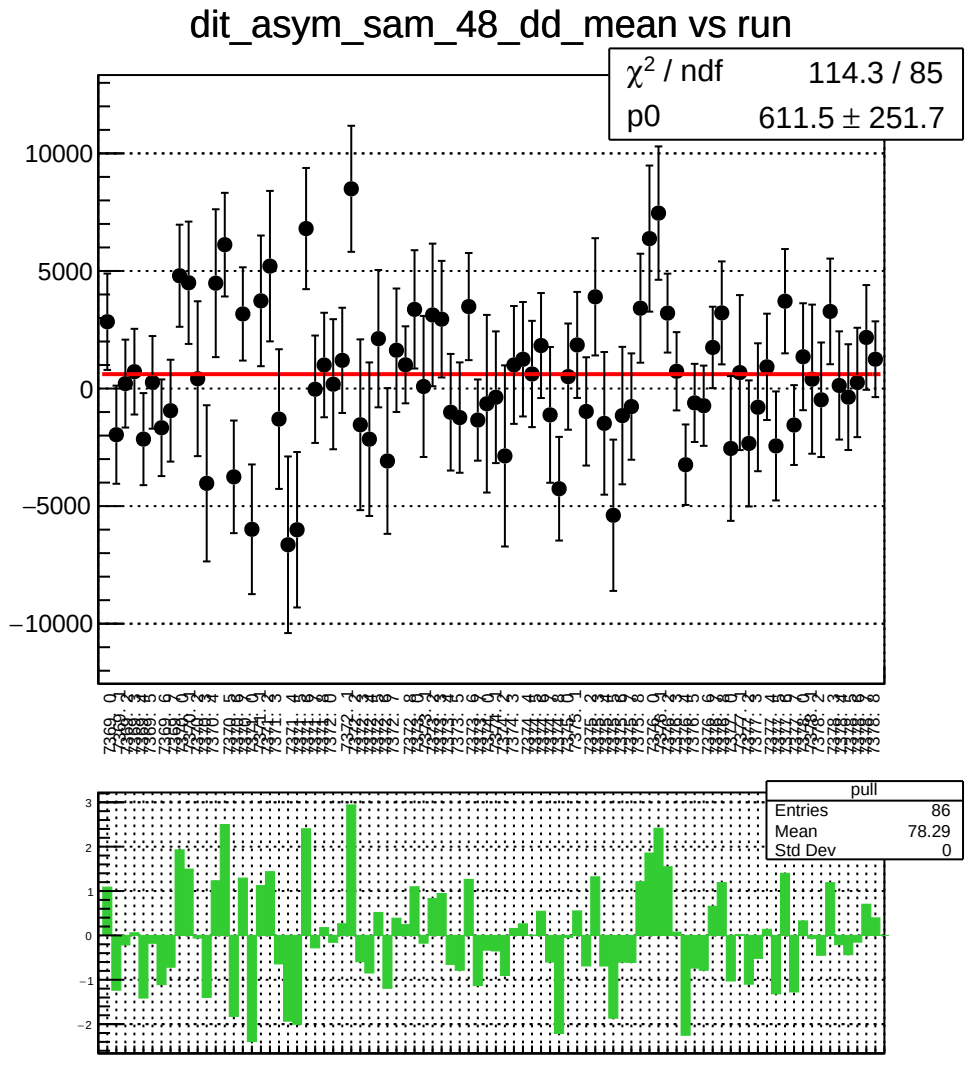

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 101.6 / 85
p0 591 ± 163.9
pull
Entries 86
Mean 170.7
Std Dev 0
pull1D
Entries 86
Mean 0.00274
Std Dev 1.087

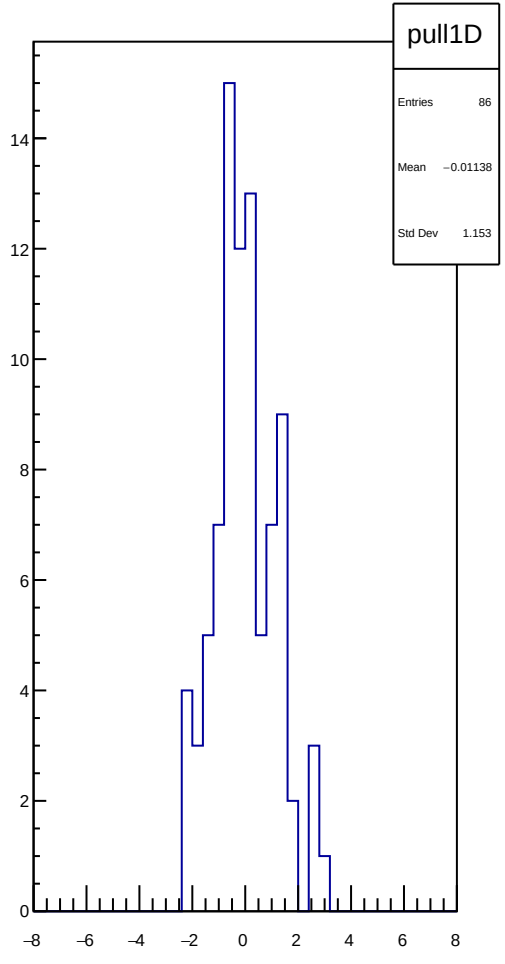

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.34e+04 / 85
p0 149.8 ± 0.1159
180
170
160
150
140
130
120

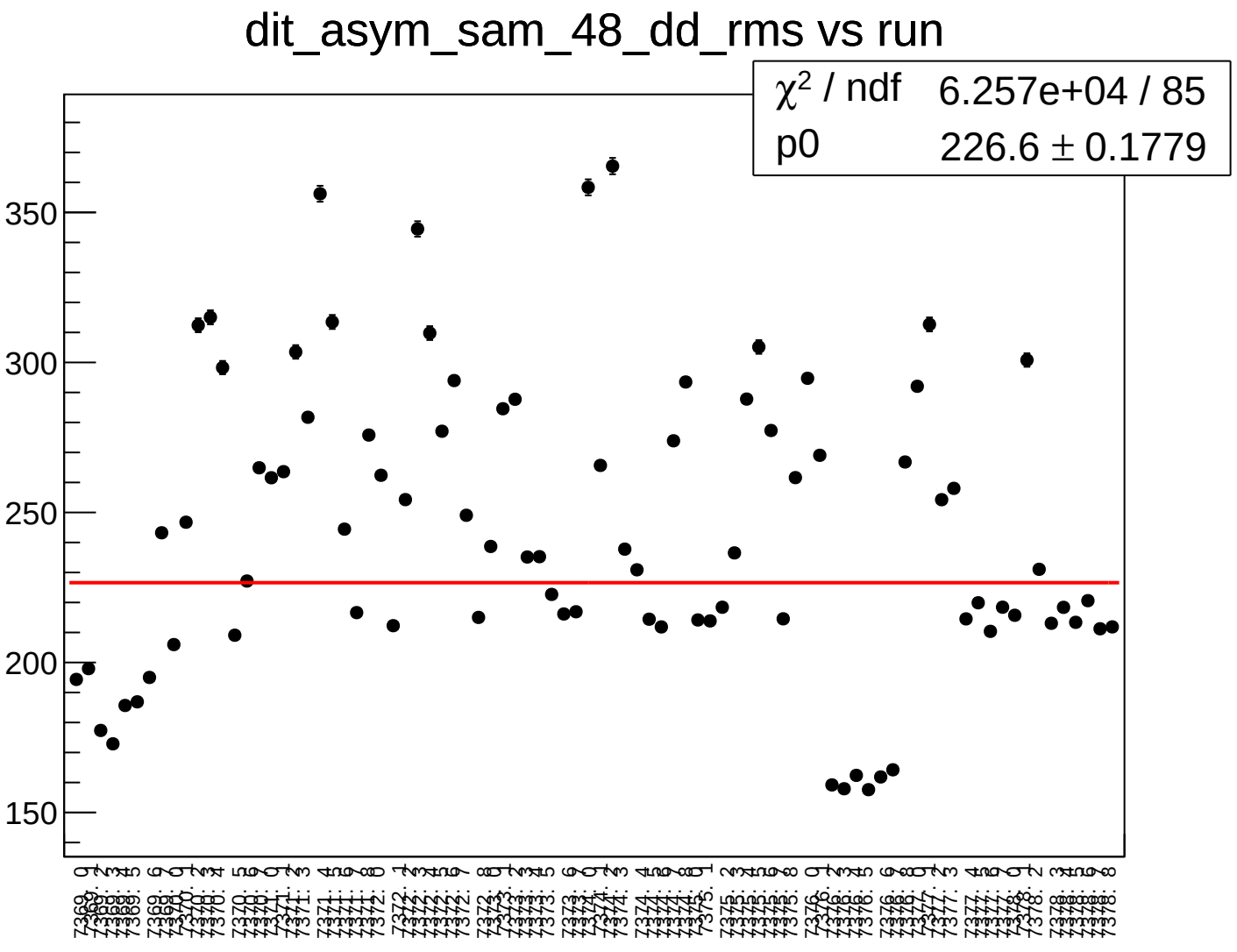

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.78 / 85
p0 292.6 ± 975.8
pull
Entries 86
Mean −661.4
Std Dev 0

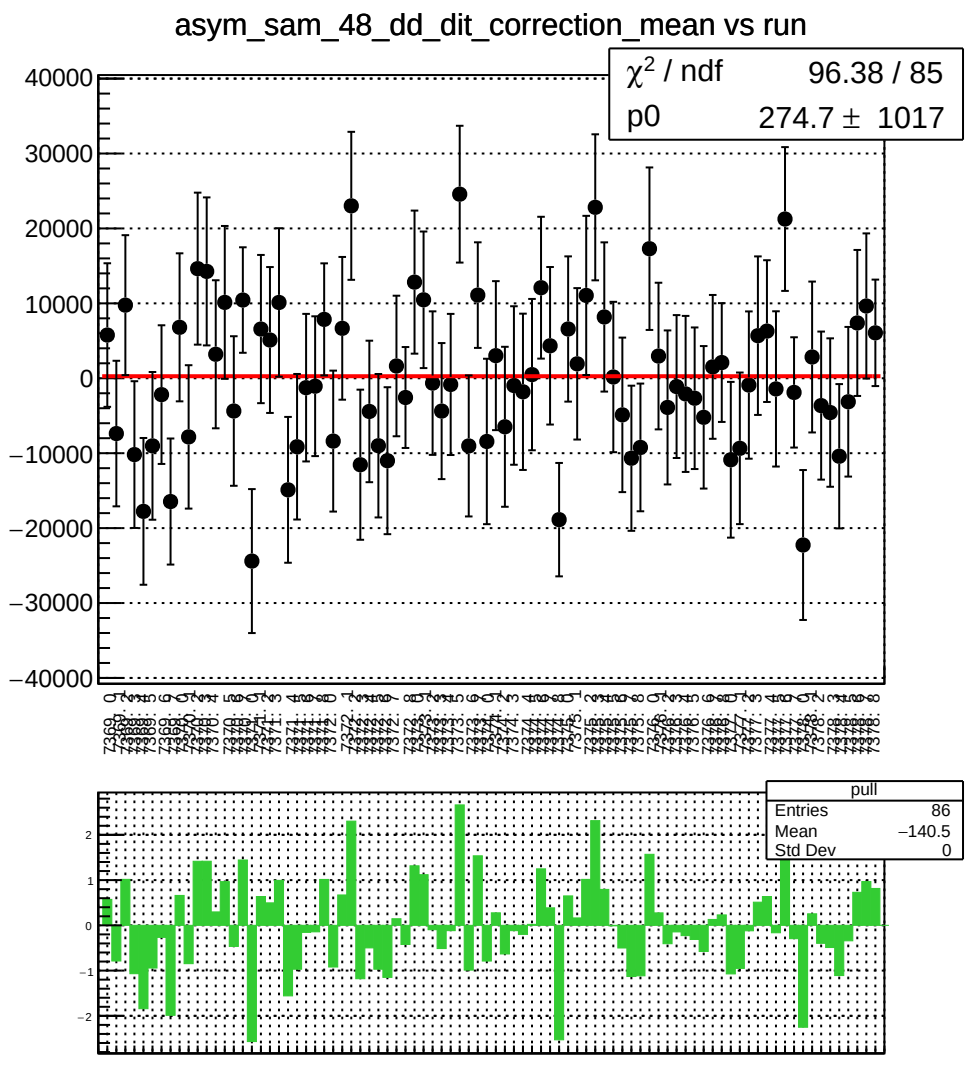

pull1D
Entries 86
Mean −0.001789
Std Dev 1.027

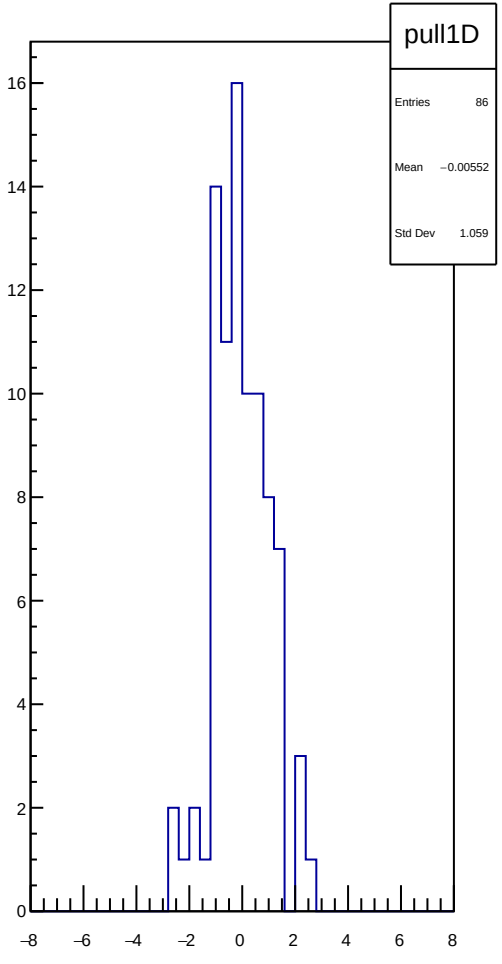

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5328 / 85
p0 894 ± 0.69
1050
1000
950
900
850
800

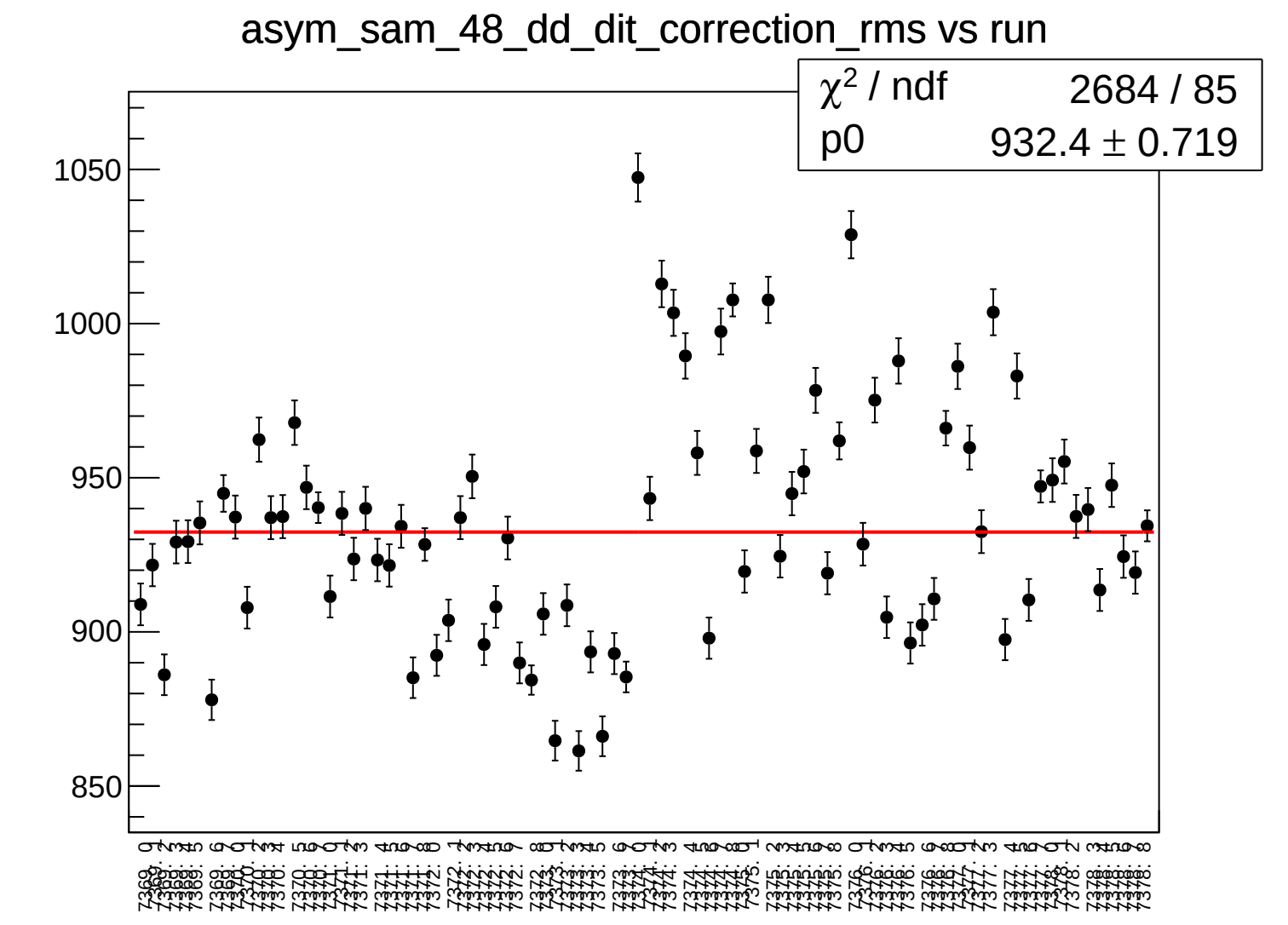

dit_asym_sam_48_dd_mean vs run
χ² / ndf 114.3 / 85
p0 611.5 ± 251.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 78.29
Std Dev 0
3
2
1
0
−1
−2

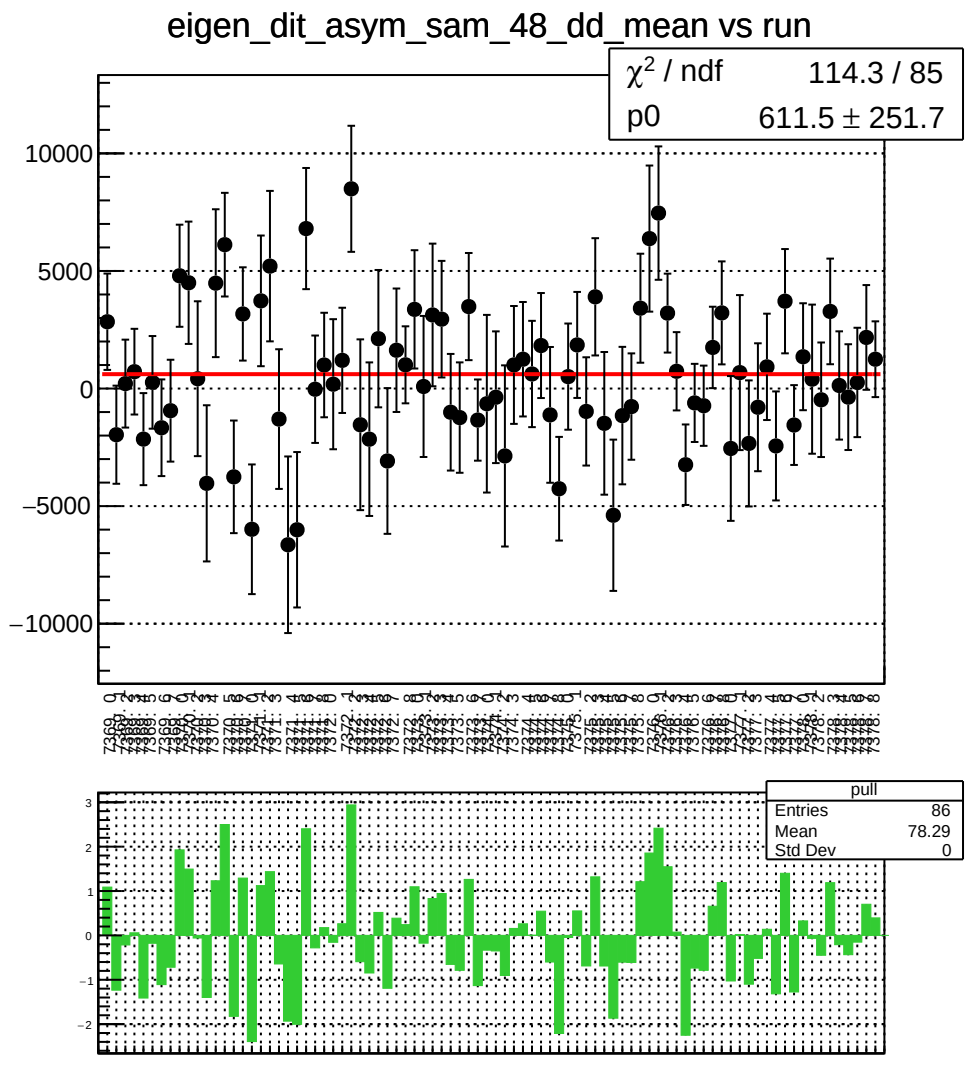

pull1D
Entries 86
Mean −0.01138
Std Dev 1.153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

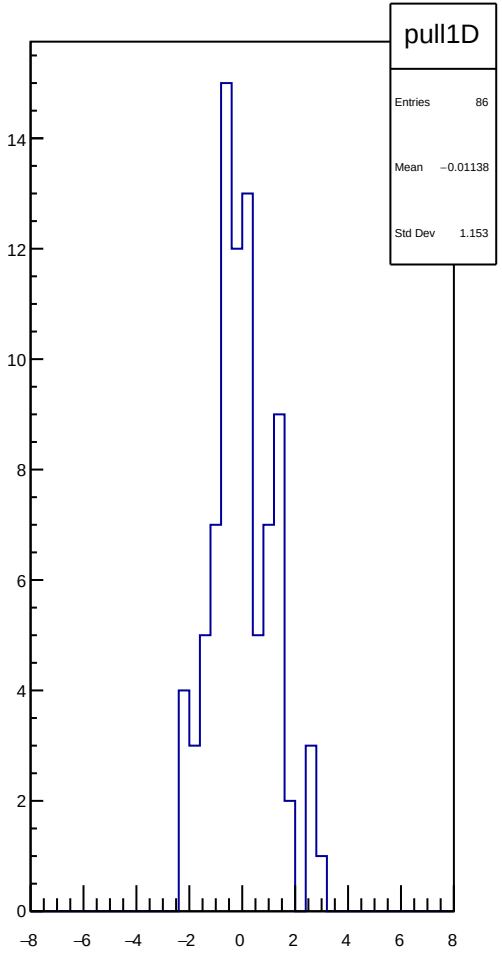

dit_asym_sam_48_dd_rms vs run
χ² / ndf 6.257e+04 / 85
p0 226.6 ± 0.1779
350
300
250
200
150

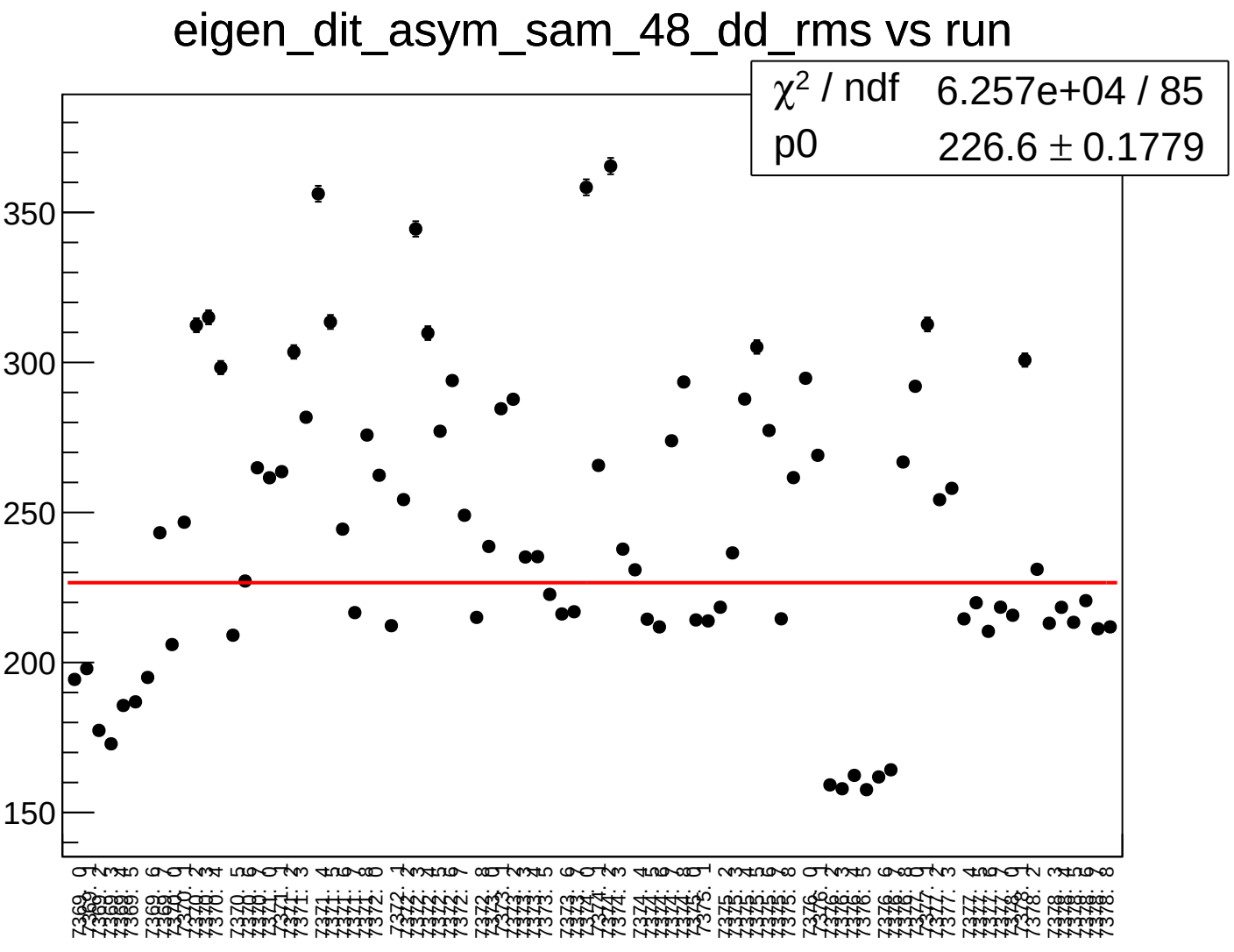

asym_sam_48_dd_dit_correction_mean vs run
χ^2 / ndf 96.38 / 85
p0 274.7 ± 1017
pull
Entries 86
Mean −140.5
Std Dev 0

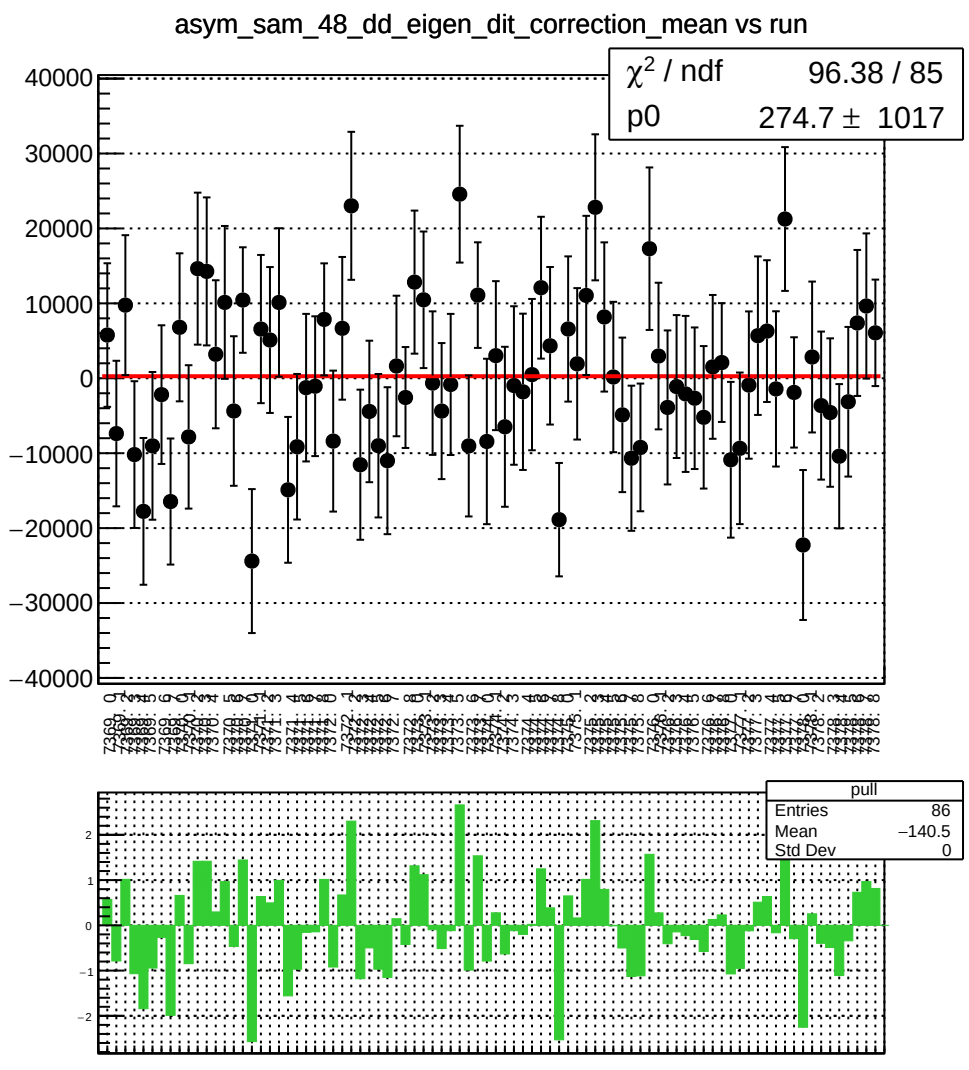

pull1D
Entries 86
Mean −0.00552
Std Dev 1.059

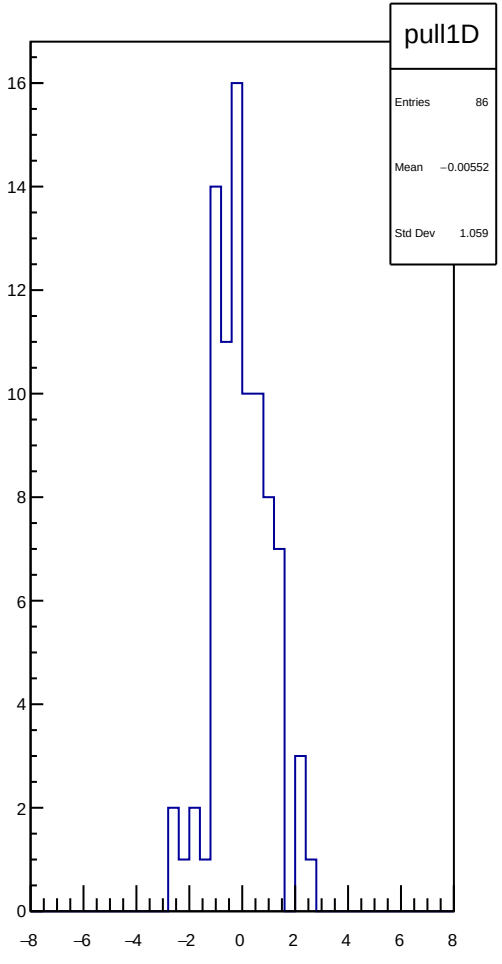

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2684 / 85
p0 932.4 ± 0.719
1050
1000
950
900
850

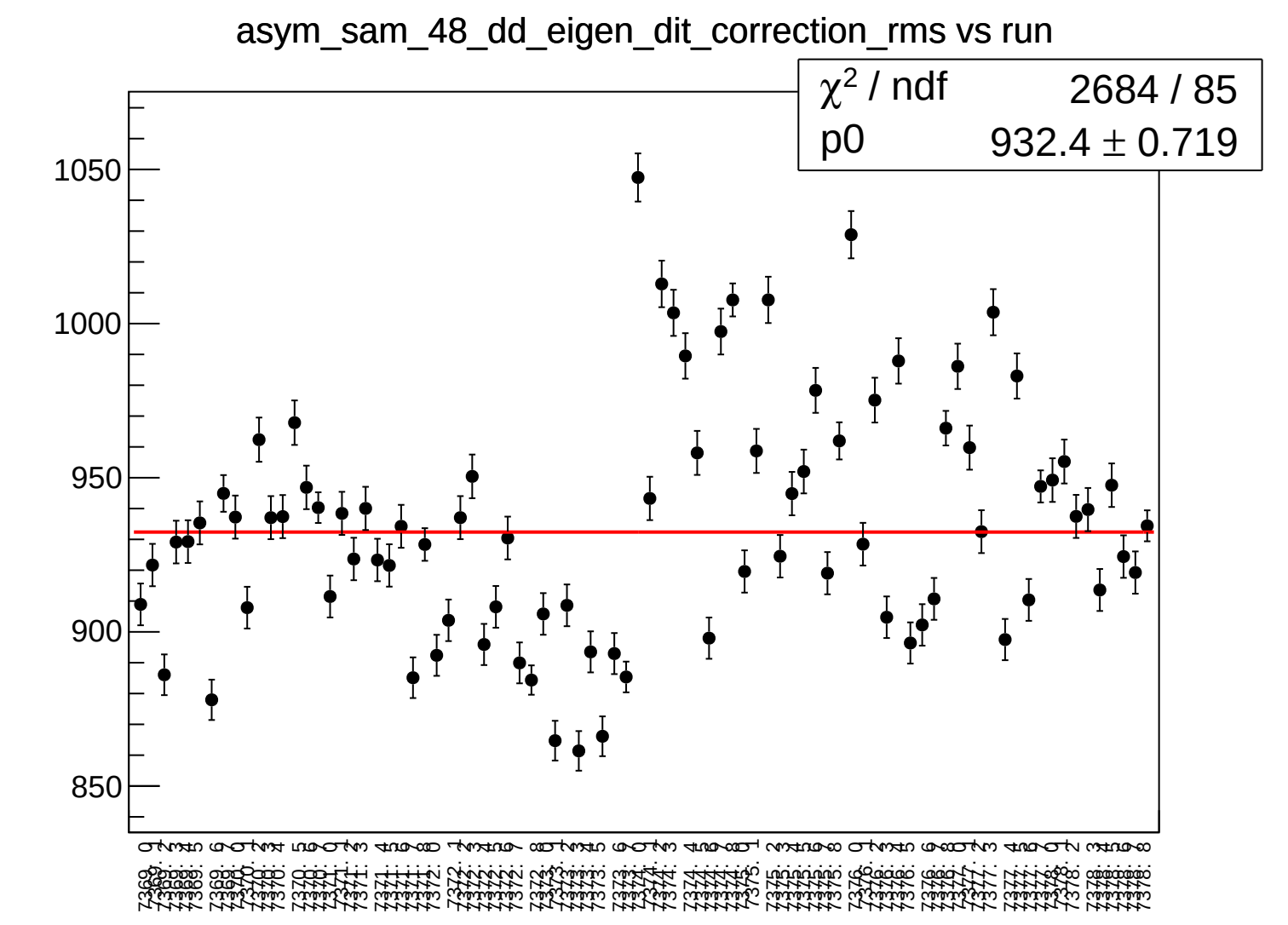

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 114.3 / 85
p0 611.5 ± 251.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 78.29
Std Dev 0
3
2
1
0
−1
−2

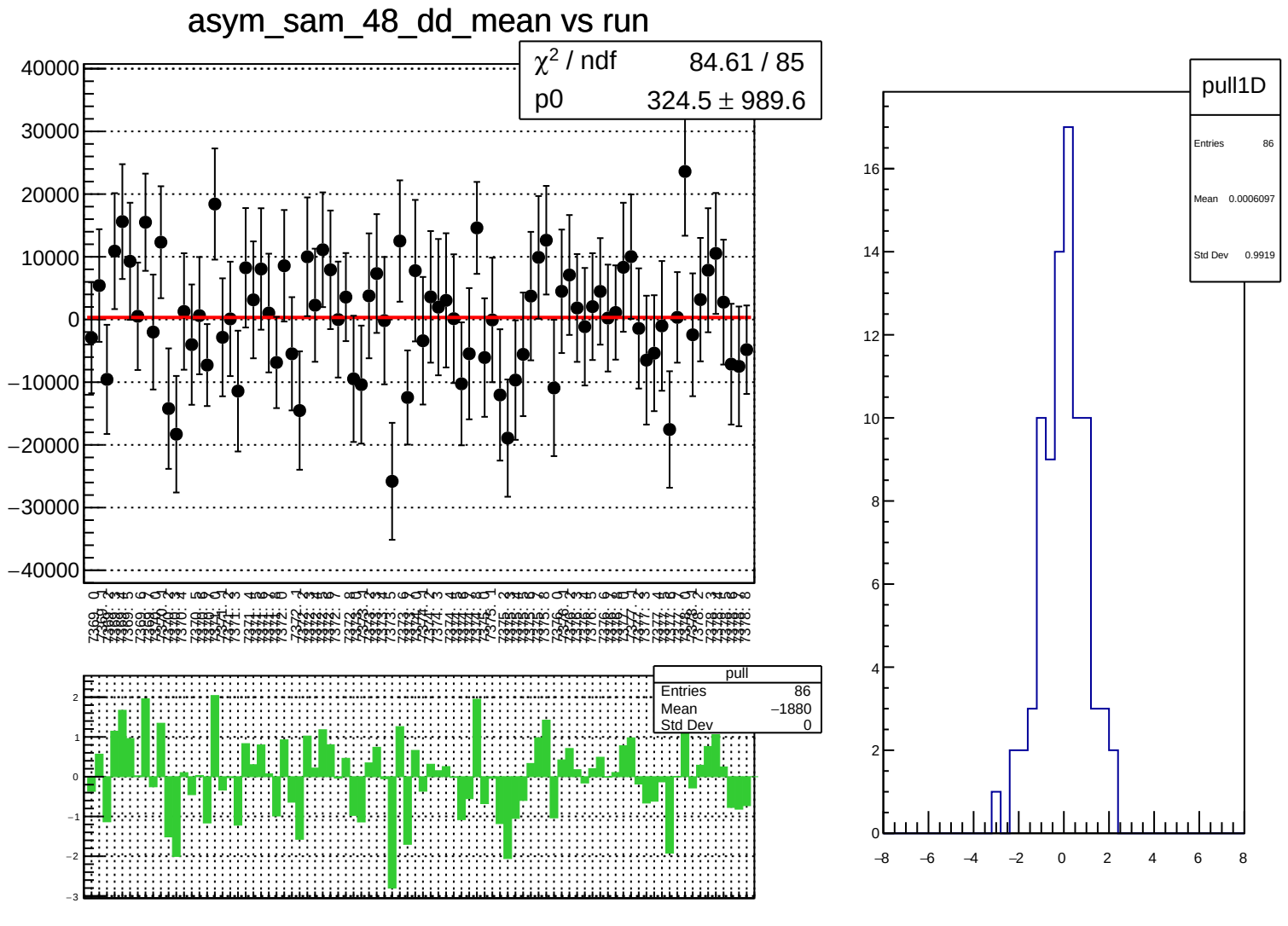

pull1D
Entries 86
Mean −0.01138
Std Dev 1.153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

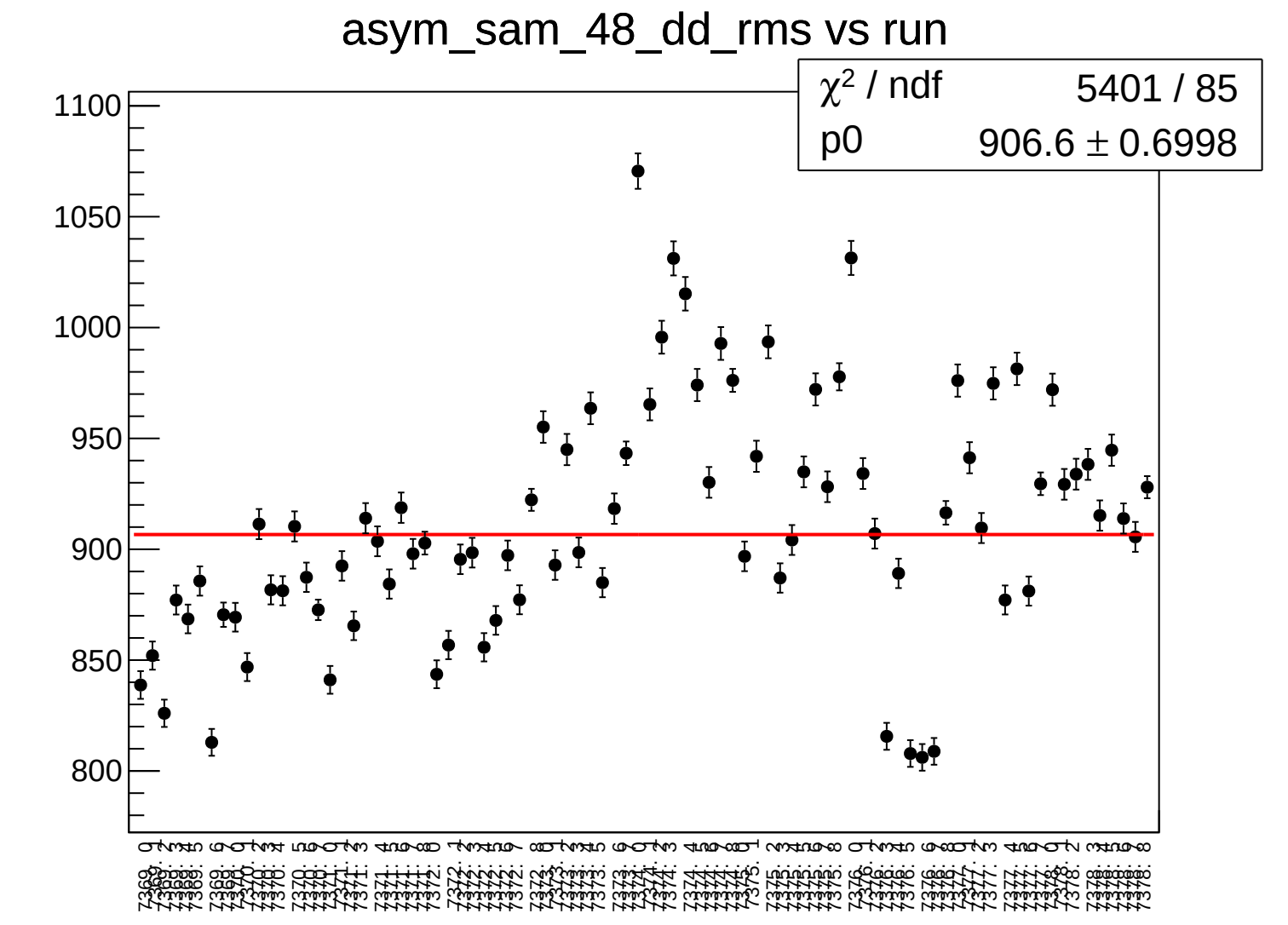

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 6.257e+04 / 85
p0 226.6 ± 0.1779
350
300
250
200
150

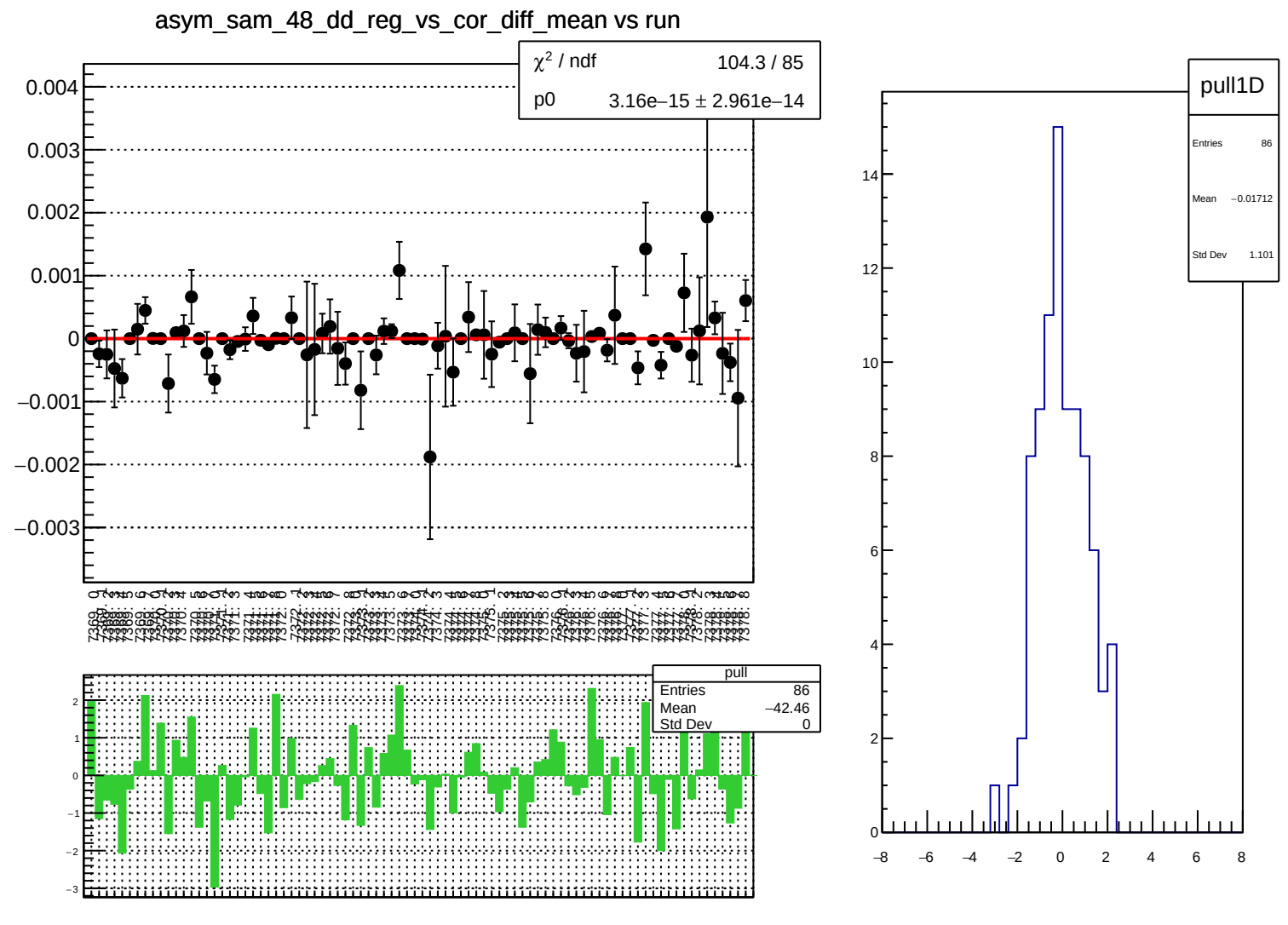

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.38 / 85
p0 274.7 ± 1017
pull
Entries 86
Mean −140.5
Std Dev 0

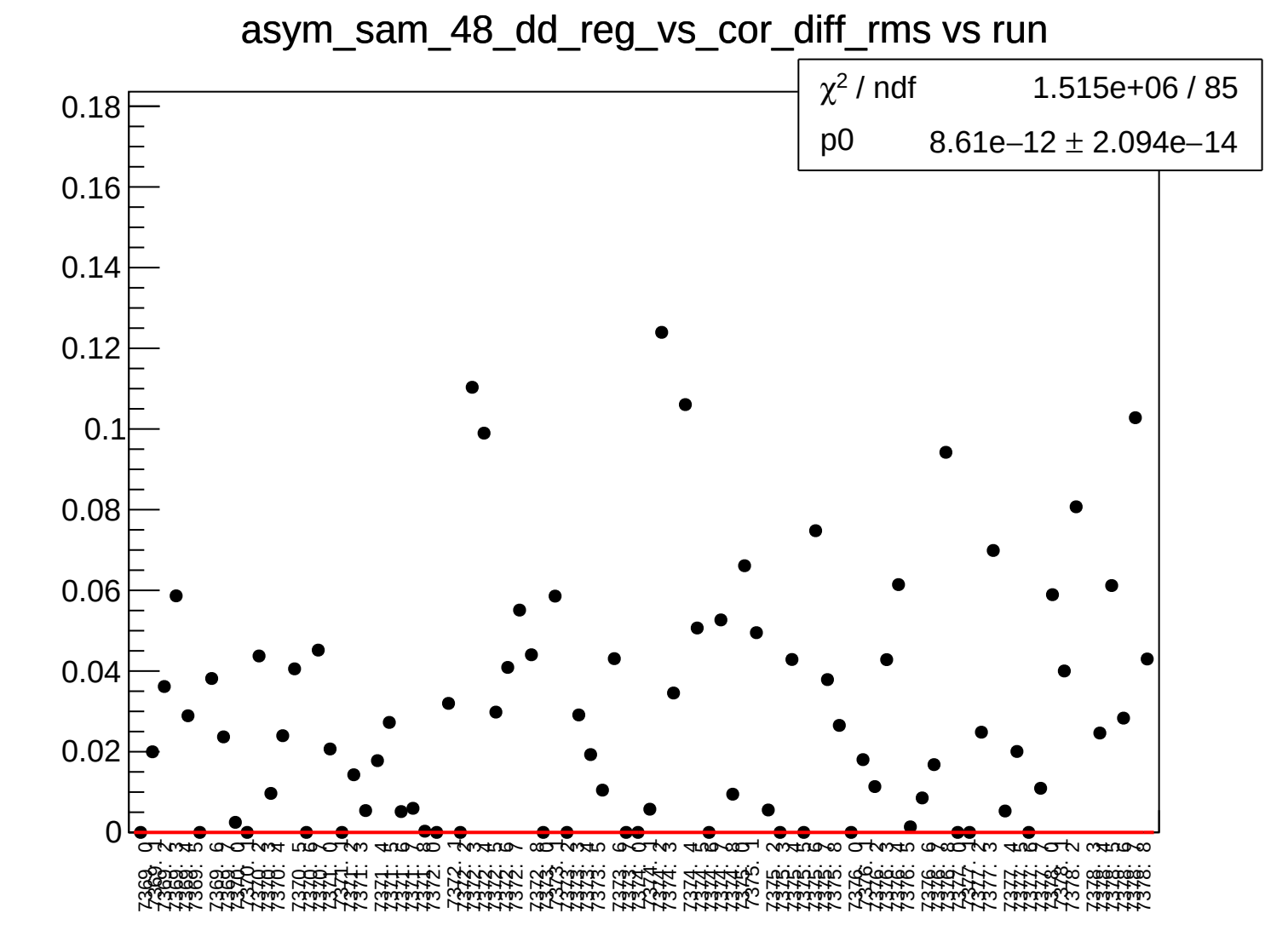

pull1D
Entries 86
Mean −0.00552
Std Dev 1.059

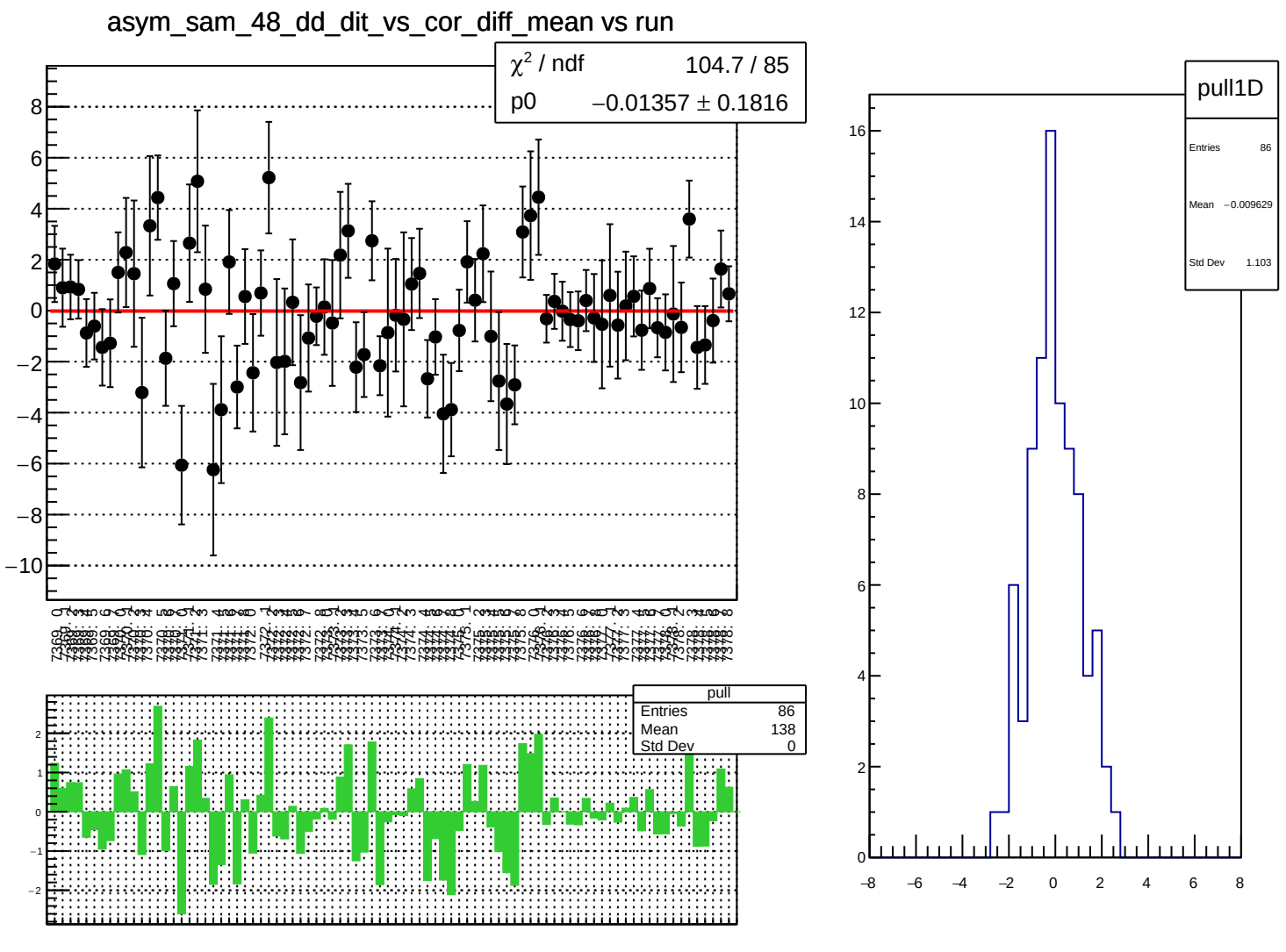

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2684 / 85
p0 932.4 ± 0.719
1050
1000
950
900
850

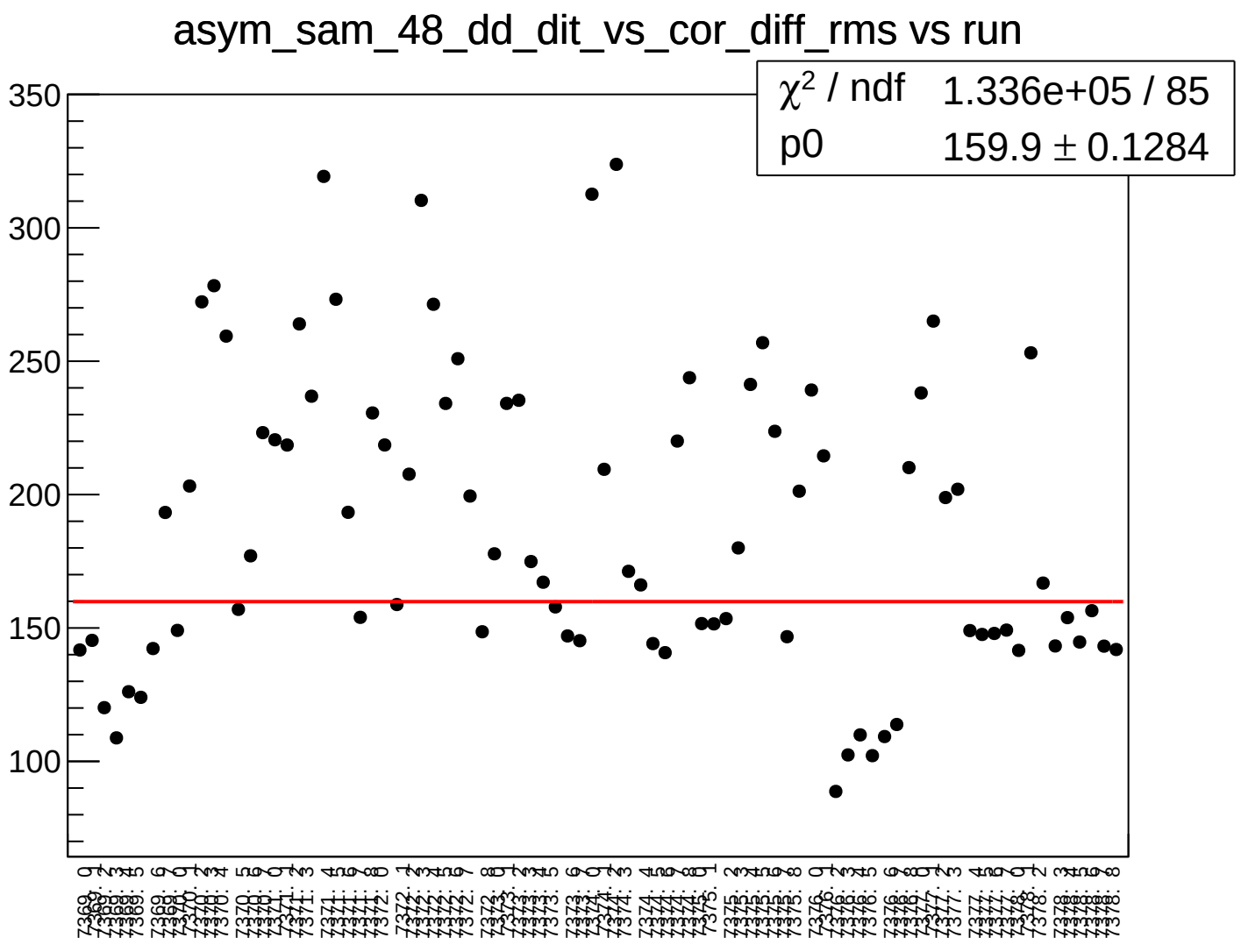

asym_sam_48_dd_mean vs run
χ² / ndf 84.61 / 85
p0 324.5 ± 989.6
pull
Entries 86
Mean −1880
Std Dev 0
pull1D
Entries 86
Mean 0.0006097
Std Dev 0.9919

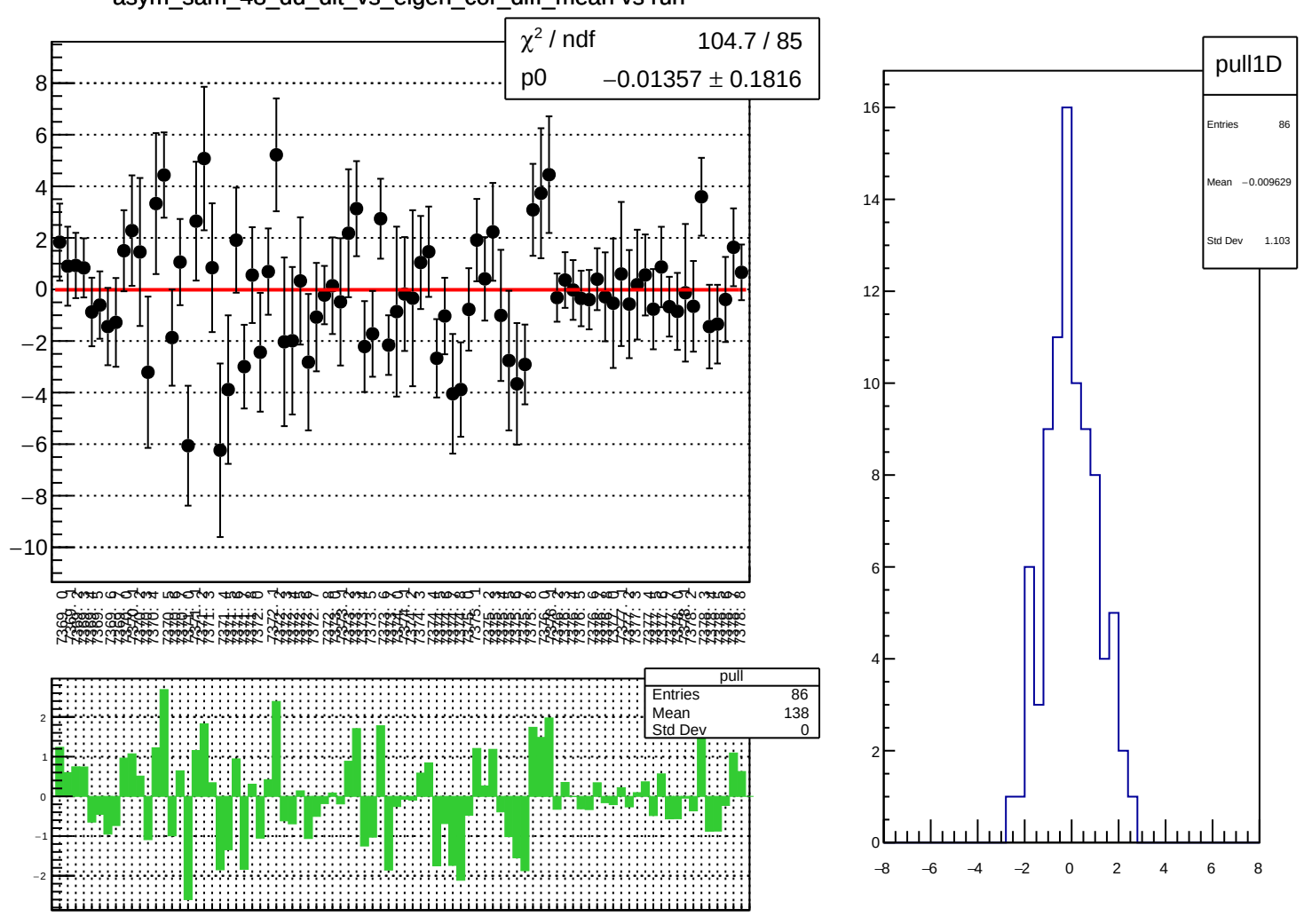

asym_sam_48_dd_rms vs run
χ^2 / ndf 5401 / 85
p0 906.6 ± 0.6998
1100
1050
1000
950
900
850
800

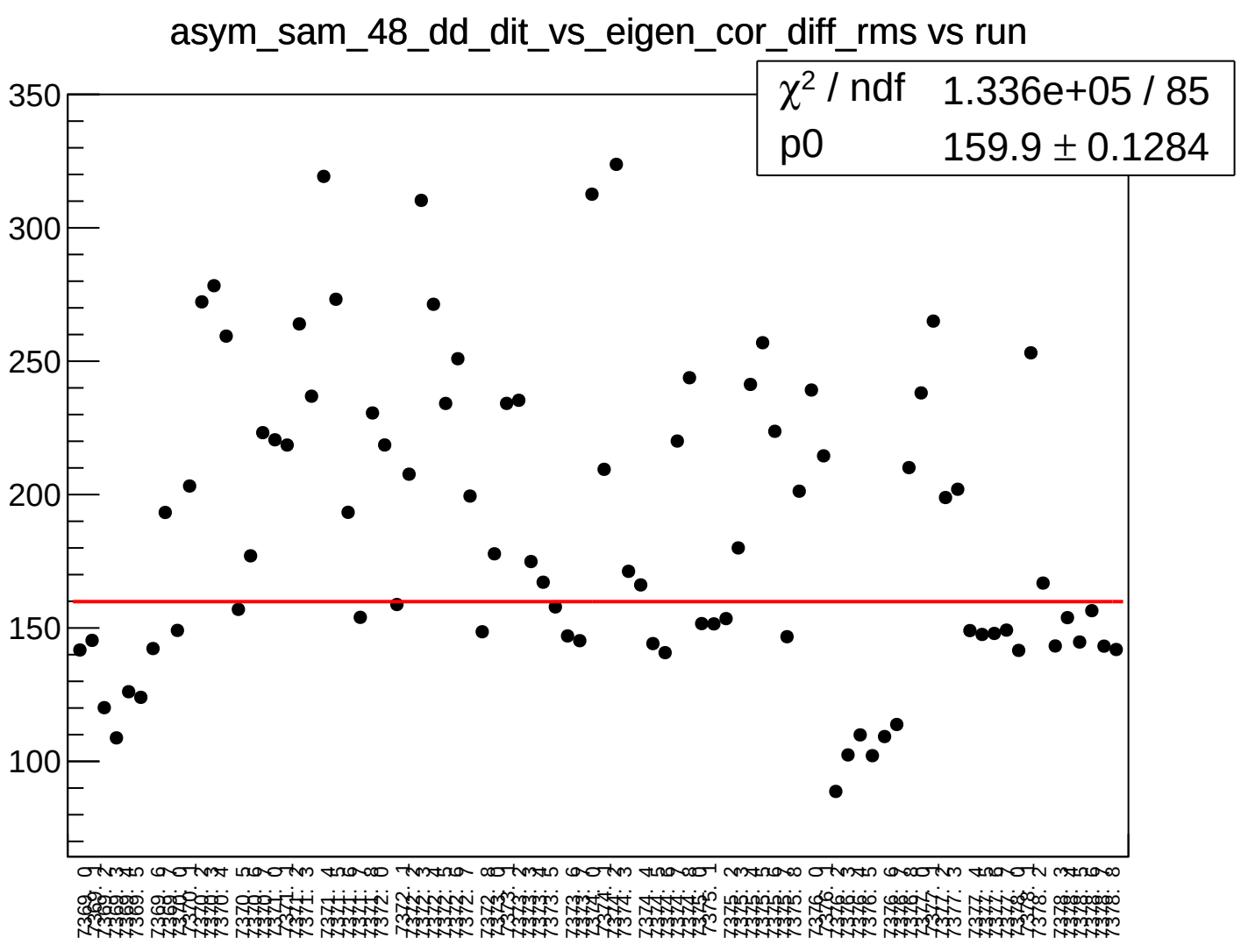

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 85
p0 3.16e−15 ± 2.961e−14
pull
Entries 86
Mean −42.46
Std Dev 0
pull1D
Entries 86
Mean −0.01712
Std Dev 1.101

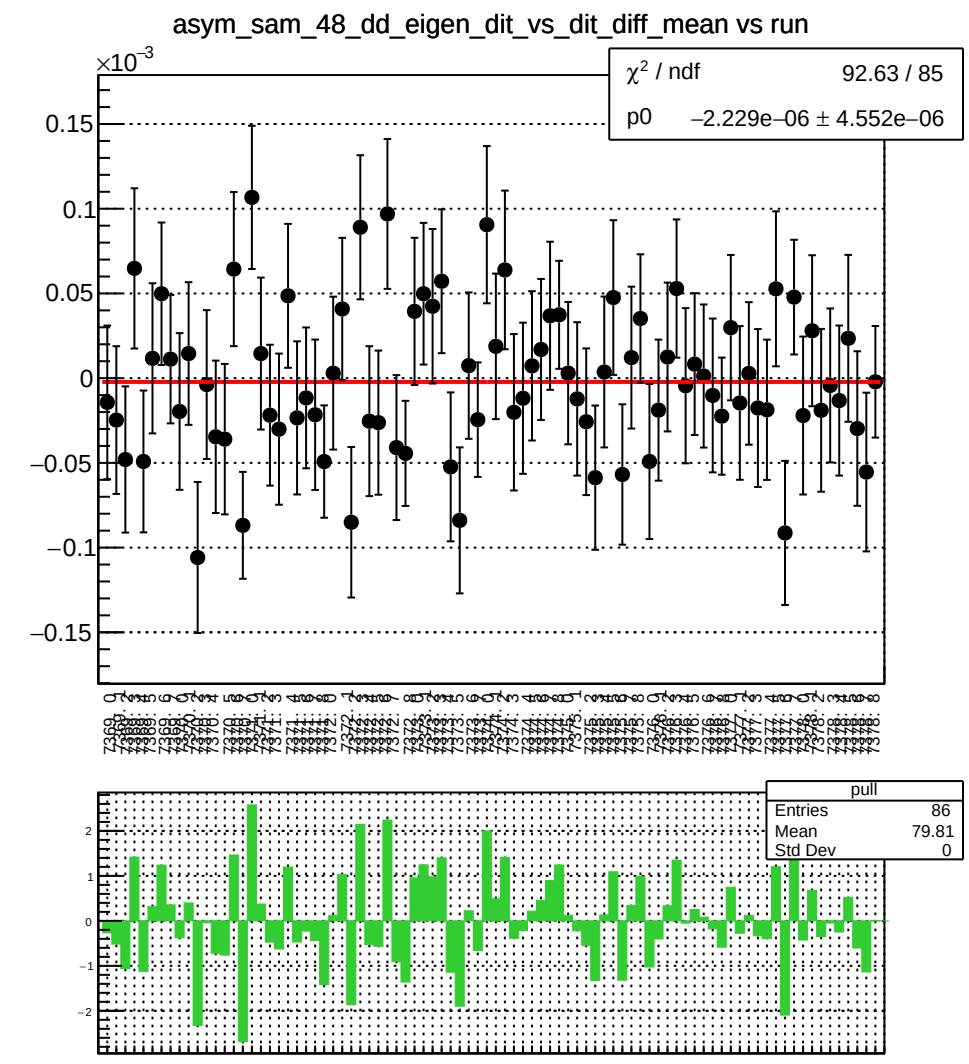

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.515e+06 / 85
p0 8.61e−12 ± 2.094e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

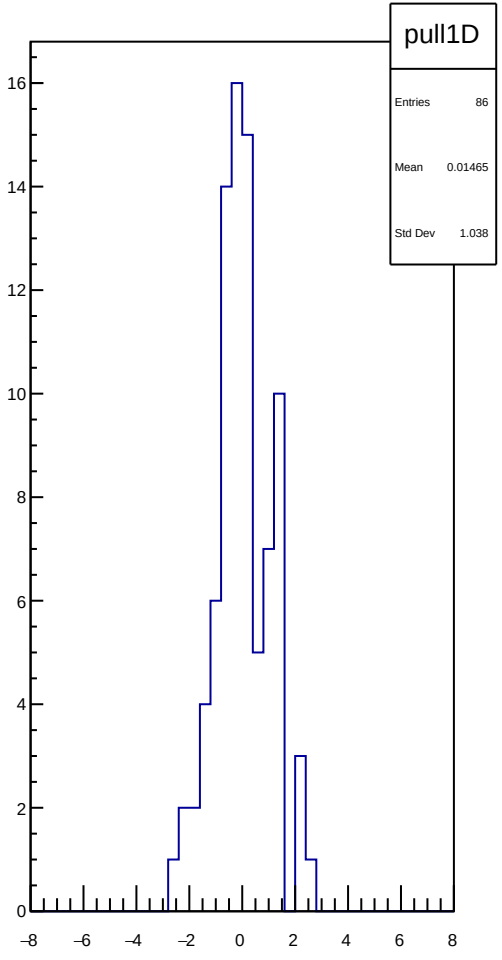

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 85
p0 −0.01357 ± 0.1816
pull
Entries 86
Mean 138
Std Dev 0
pull1D
Entries 86
Mean −0.009629
Std Dev 1.103

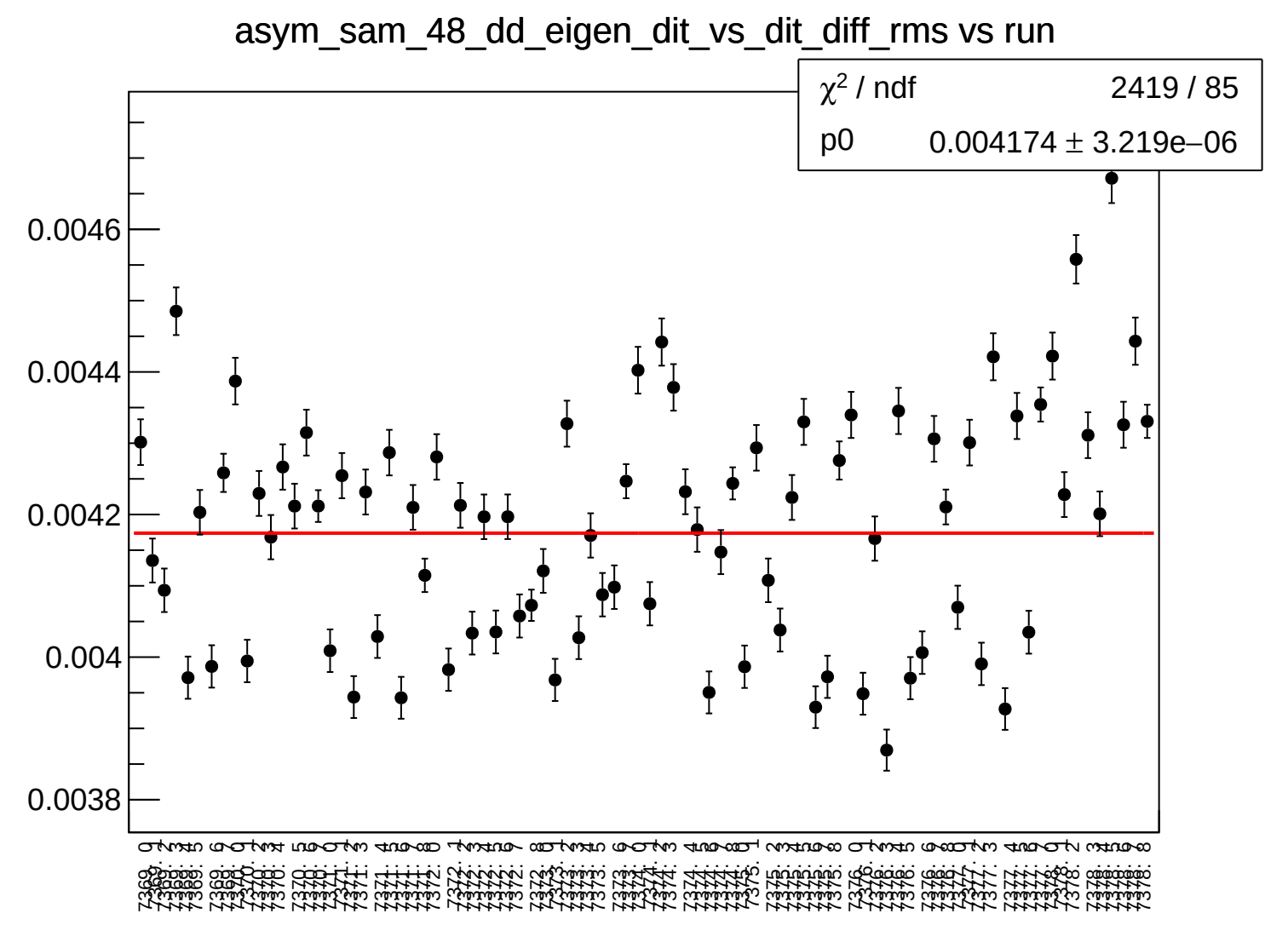

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.336e+05 / 85
p0 159.9 ± 0.1284
350
300
250
200
150
100

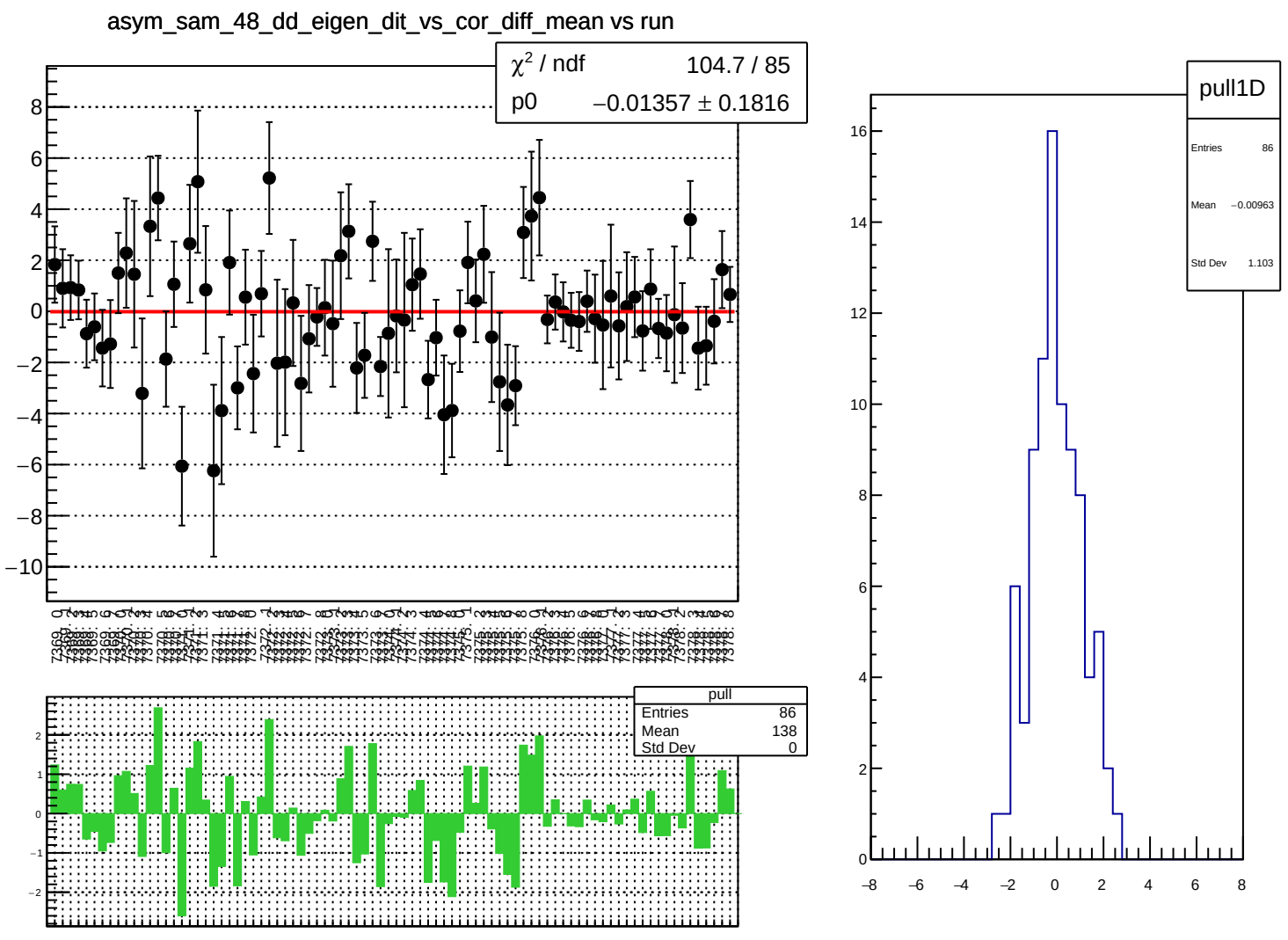

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 85
p0 −0.01357 ± 0.1816
pull
Entries 86
Mean 138
Std Dev 0
pull1D
Entries 86
Mean −0.009629
Std Dev 1.103

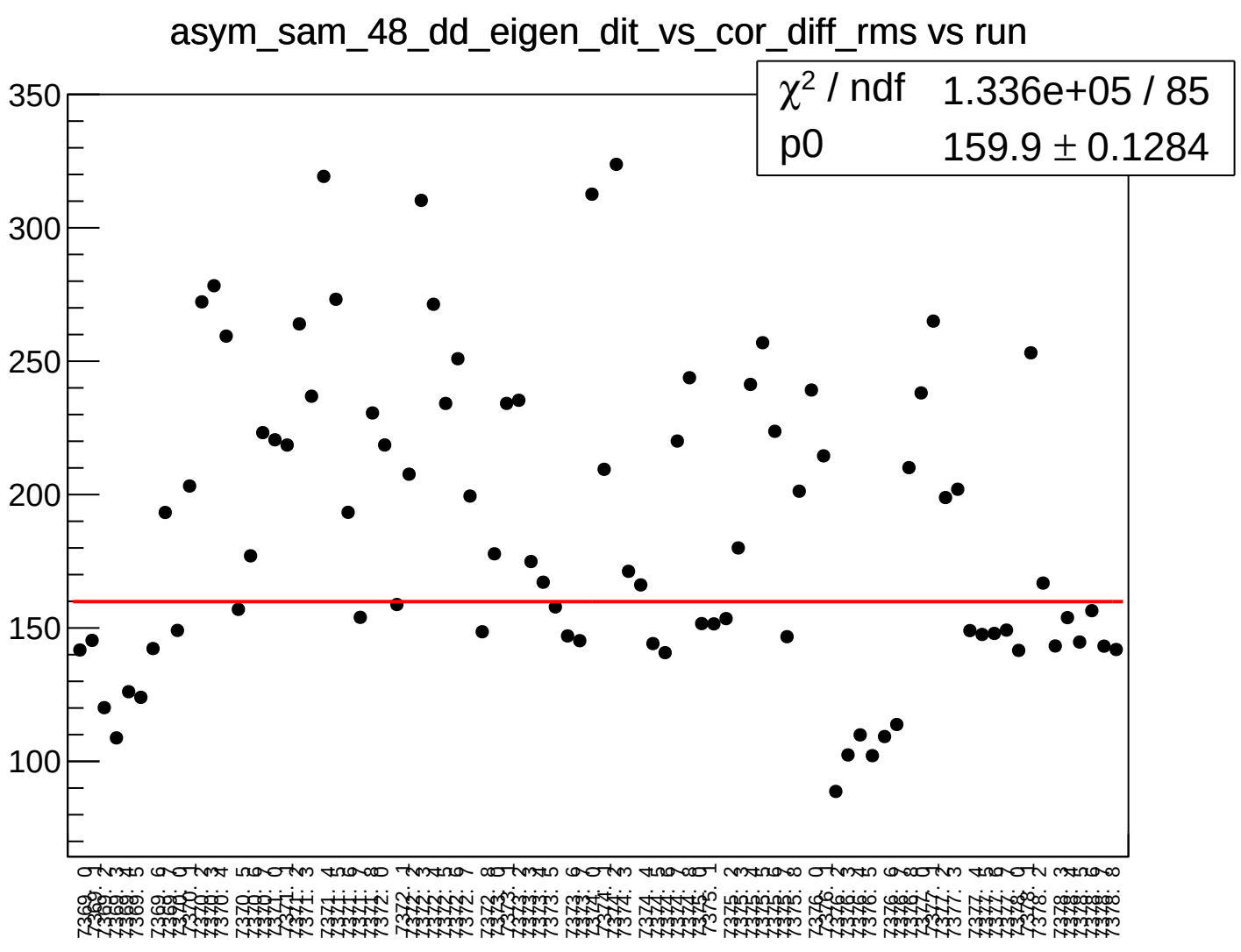

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 85
p0 159.9 ± 0.1284
350
300
250
200
150
100

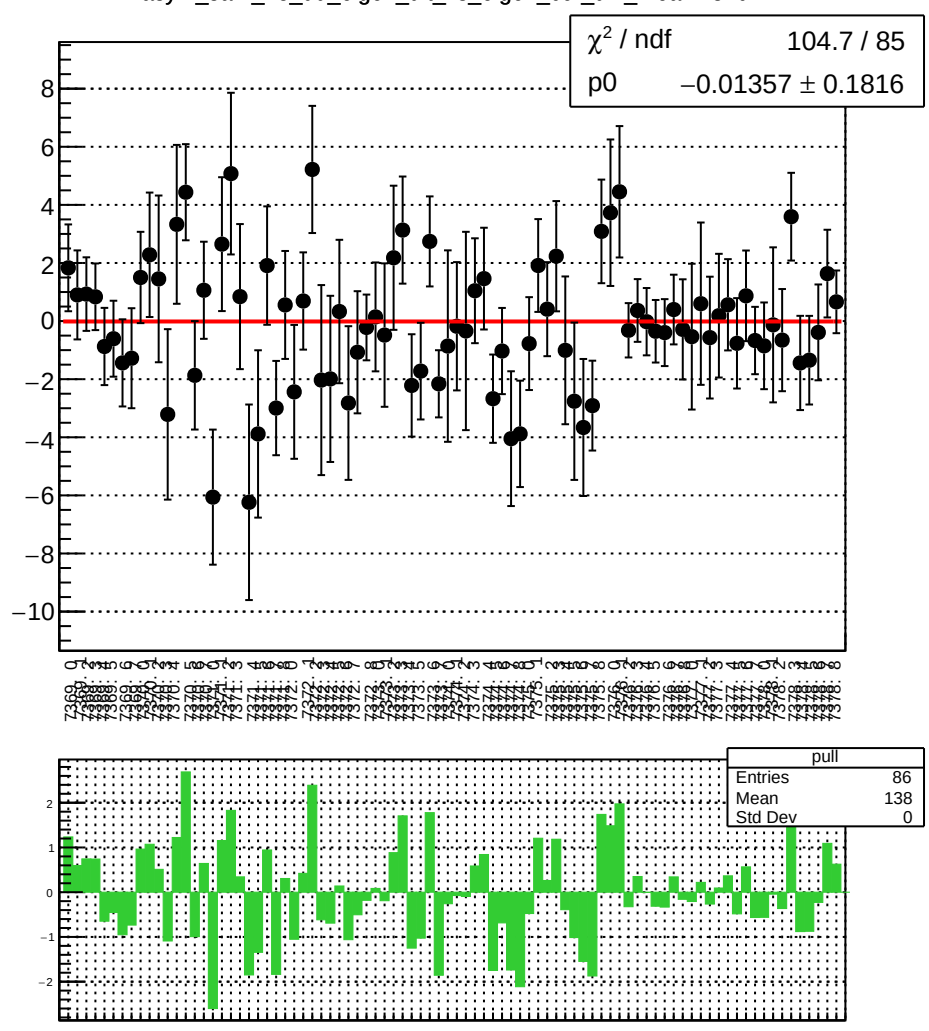

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.63 / 85
p0 −2.229e−06 ± 4.552e−06
pull
Entries 86
Mean 79.81
Std Dev 0

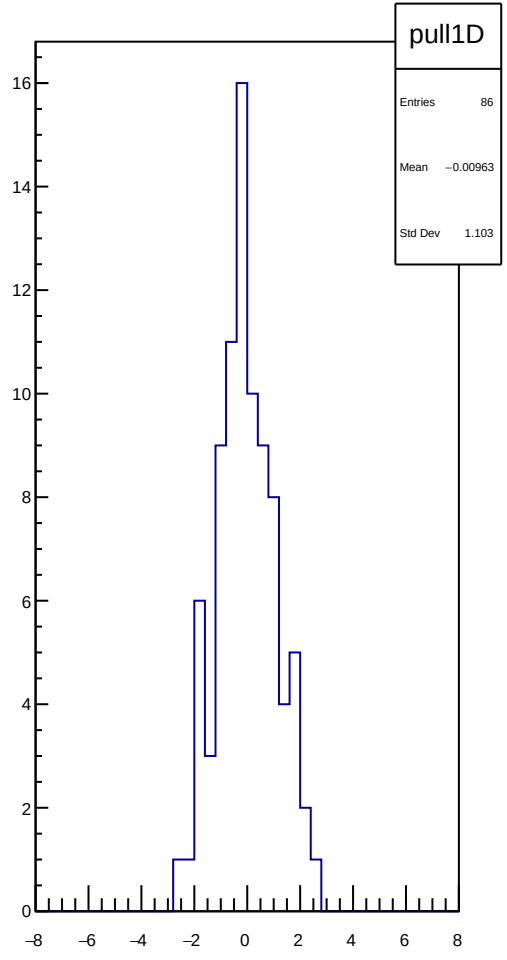

pull1D
Entries 86
Mean 0.01465
Std Dev 1.038

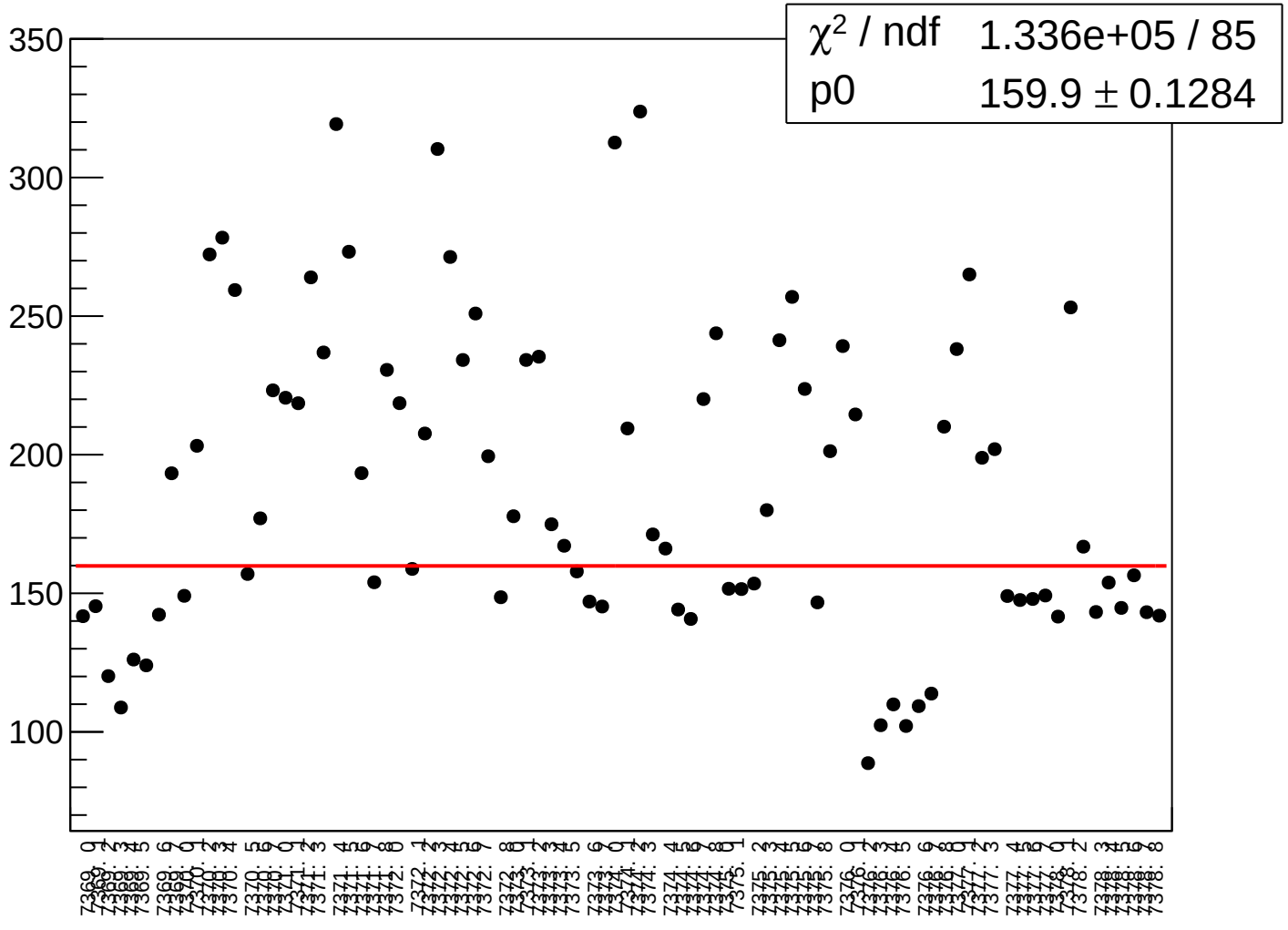

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2419 / 85
p0 0.004174 ± 3.219e−06
0.0046
0.0044
0.0042
0.004
0.0038

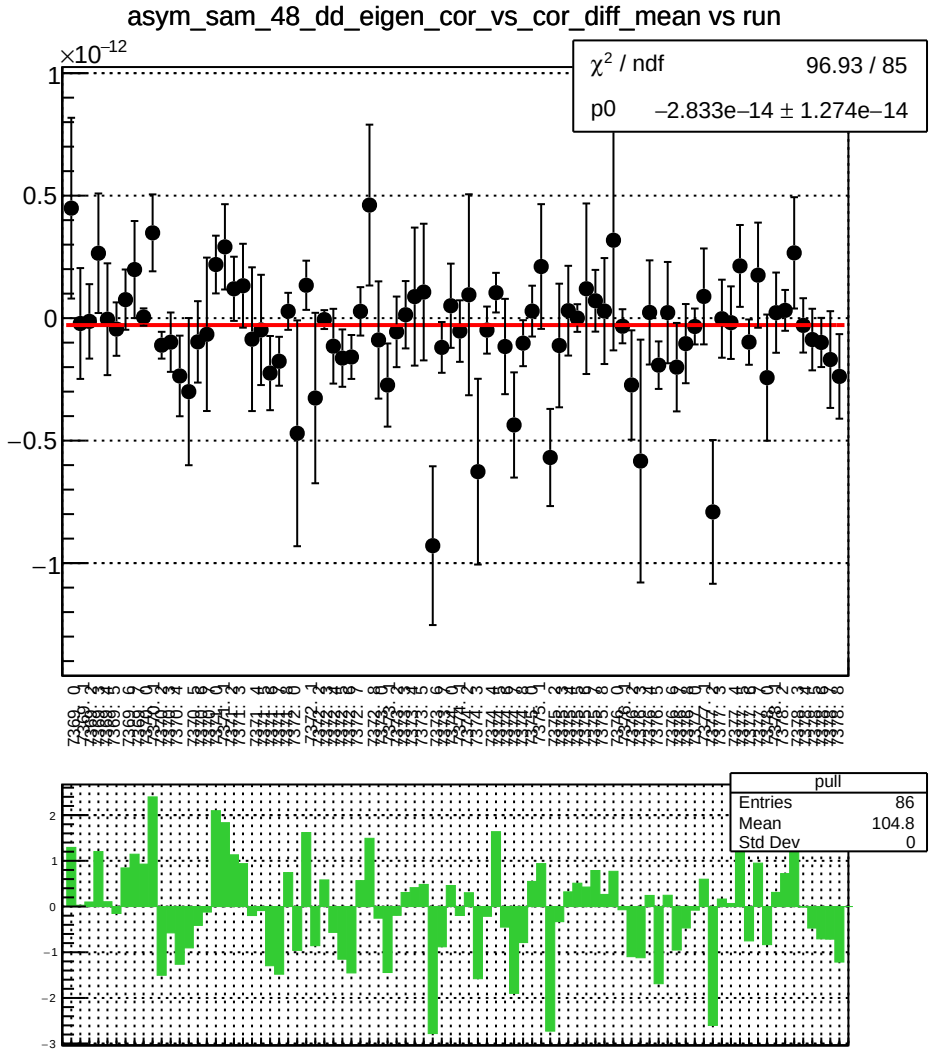

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 85
p0 −0.01357 ± 0.1816
pull
Entries 86
Mean 138
Std Dev 0
pull1D
Entries 86
Mean −0.00963
Std Dev 1.103

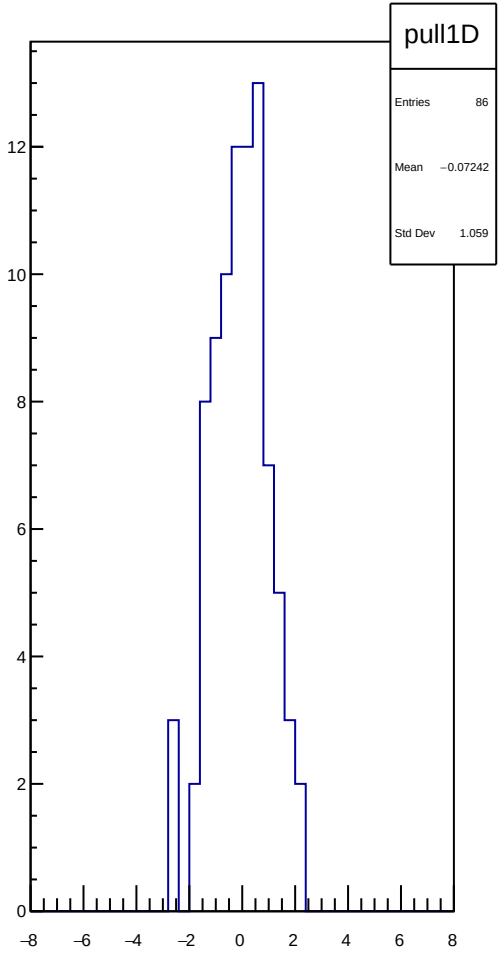

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 85
p0 159.9 ± 0.1284
350
300
250
200
150
100

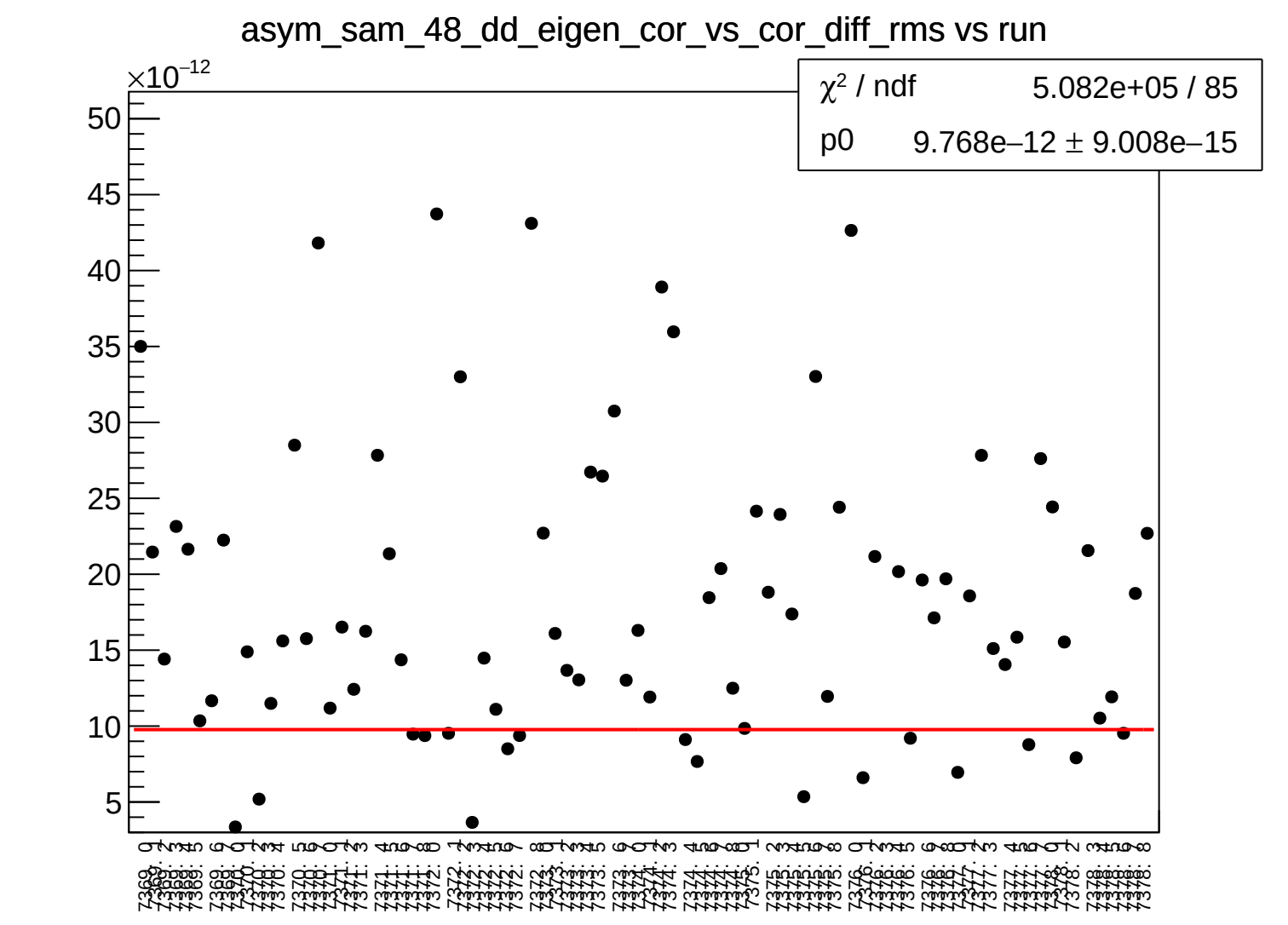

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 85
p0 −0.01357 ± 0.1816
pull
Entries 86
Mean 138
Std Dev 0

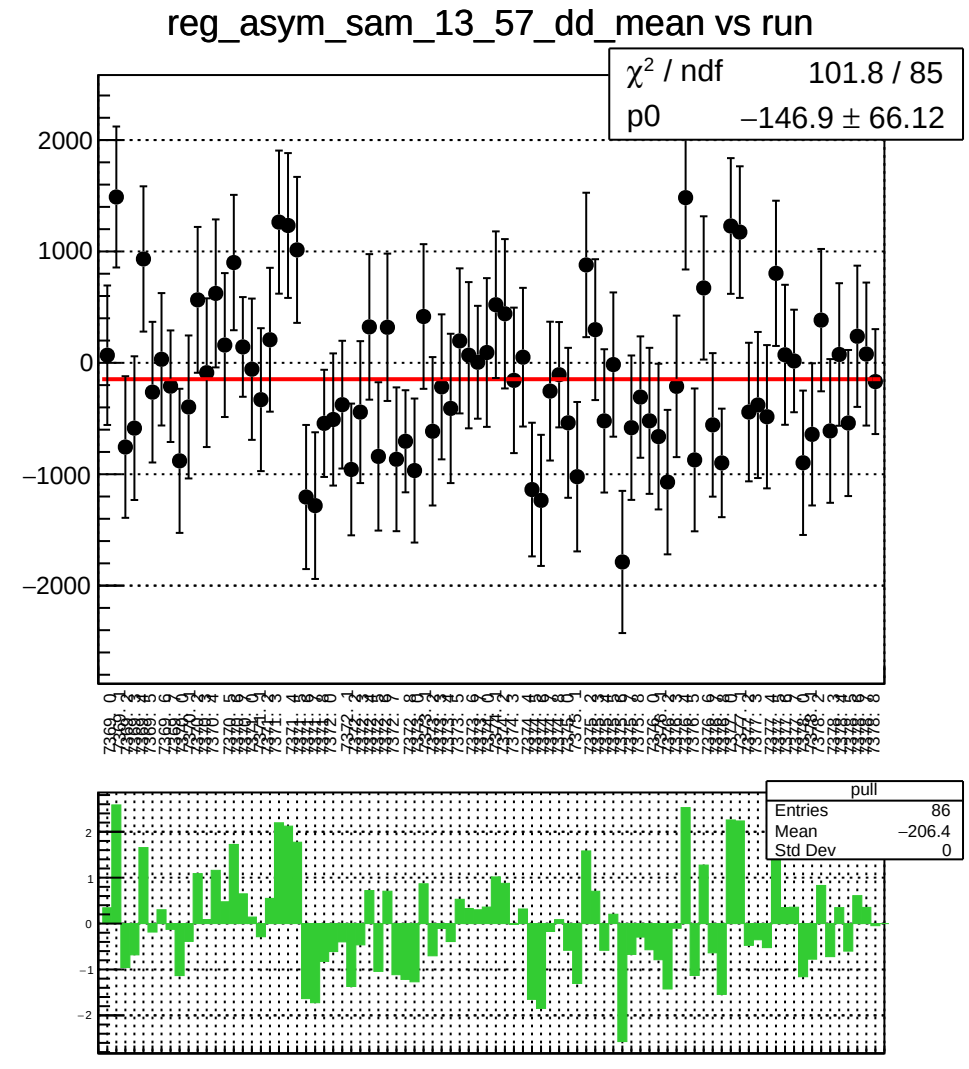

pull1D
Entries 86
Mean −0.00963
Std Dev 1.103

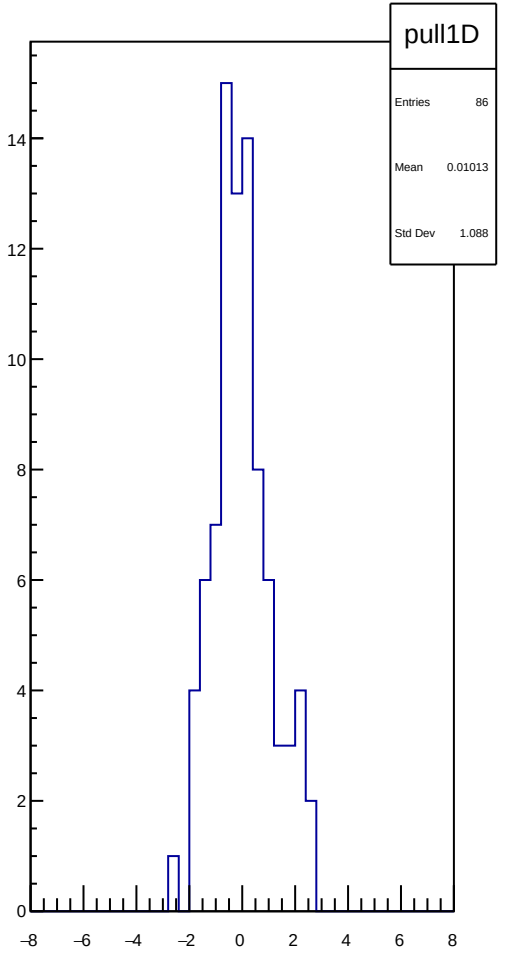

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 85
p0 159.9 ± 0.1284
350
300
250
200
150
100

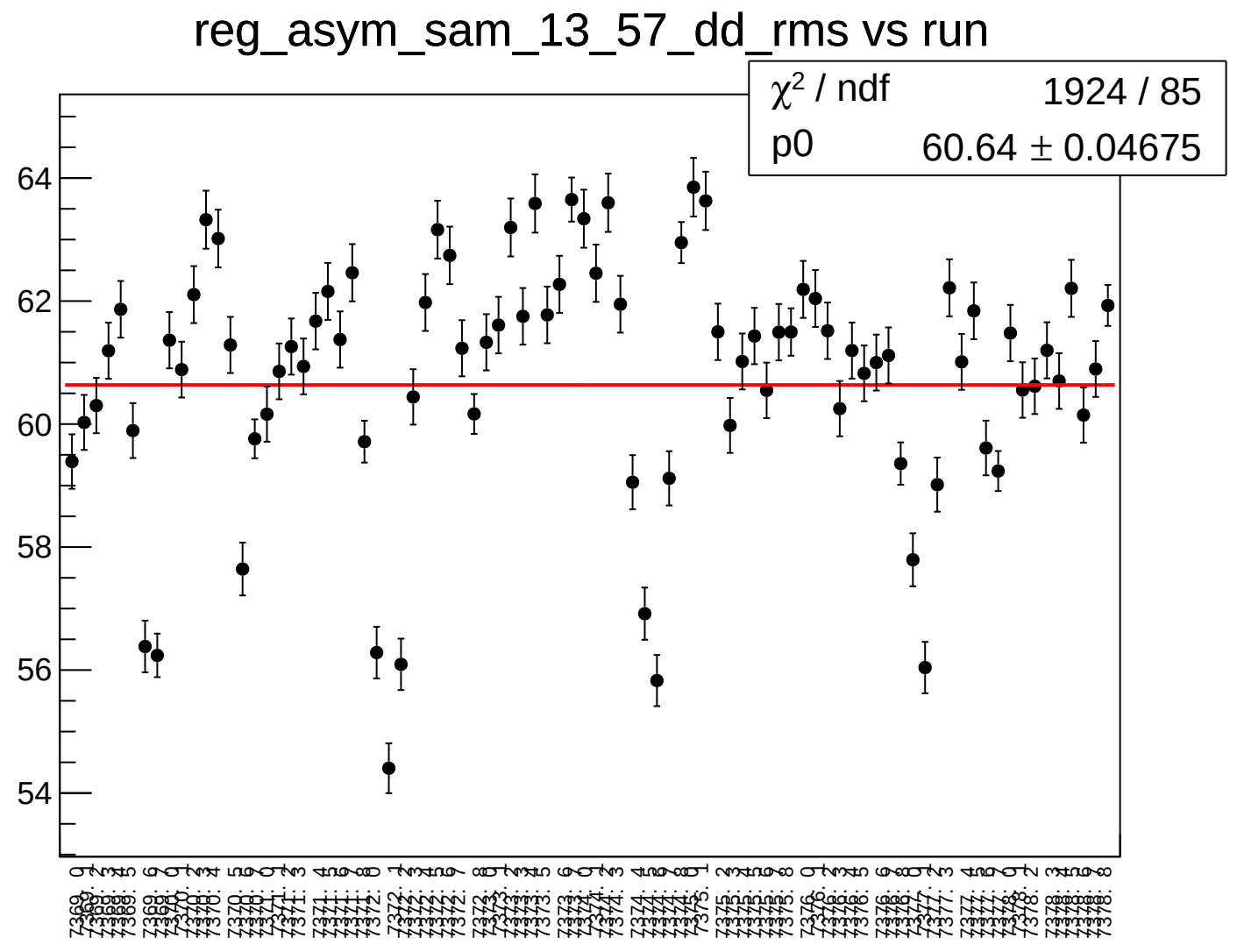

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.93 / 85
p0 −2.833e−14 ± 1.274e−14
pull
Entries 86
Mean 104.8
Std Dev 0

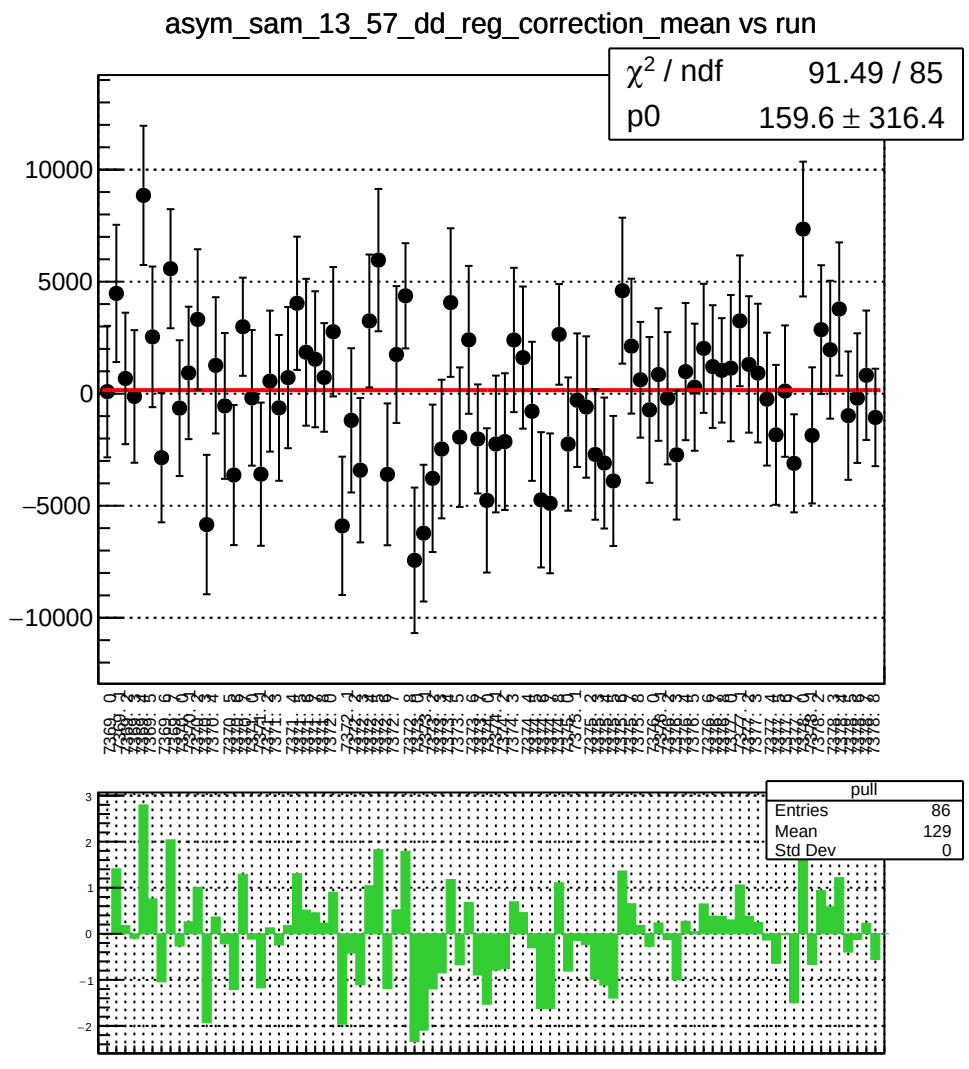

pull1D
Entries 86
Mean −0.07242
Std Dev 1.059

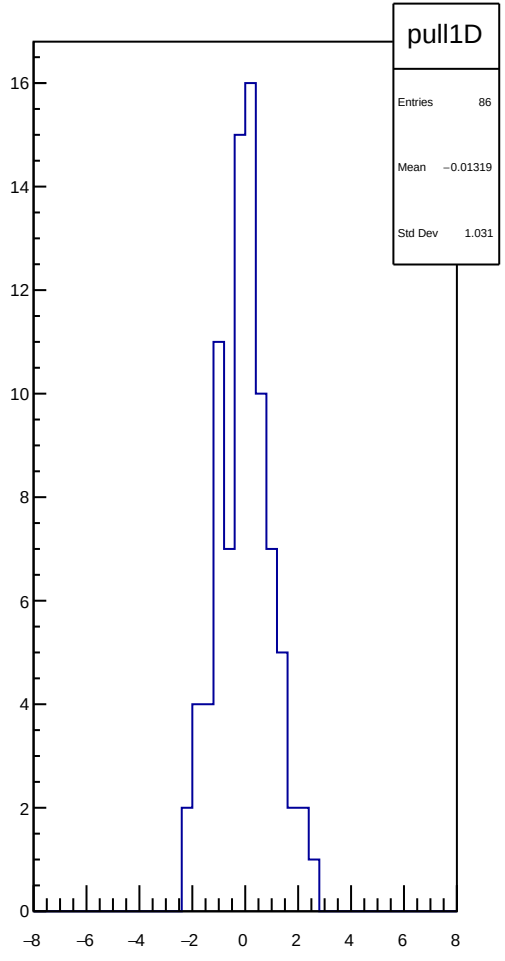

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.082e+05 / 85
p0 9.768e−12 ± 9.008e−15
50
45
40
35
30
25
20
15
10
5

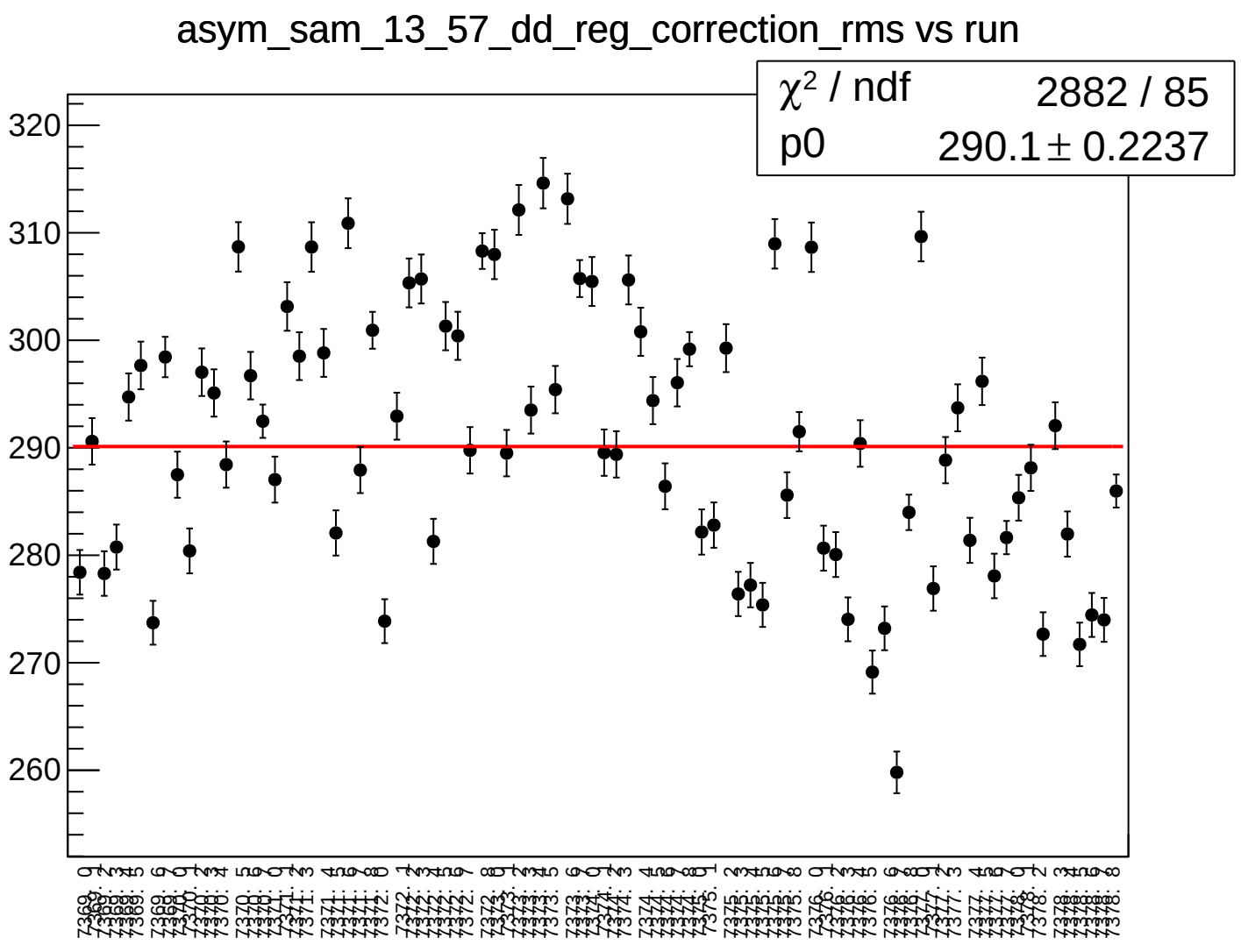

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 101.8 / 85
p0 −146.9 ± 66.12
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −206.4
Std Dev 0

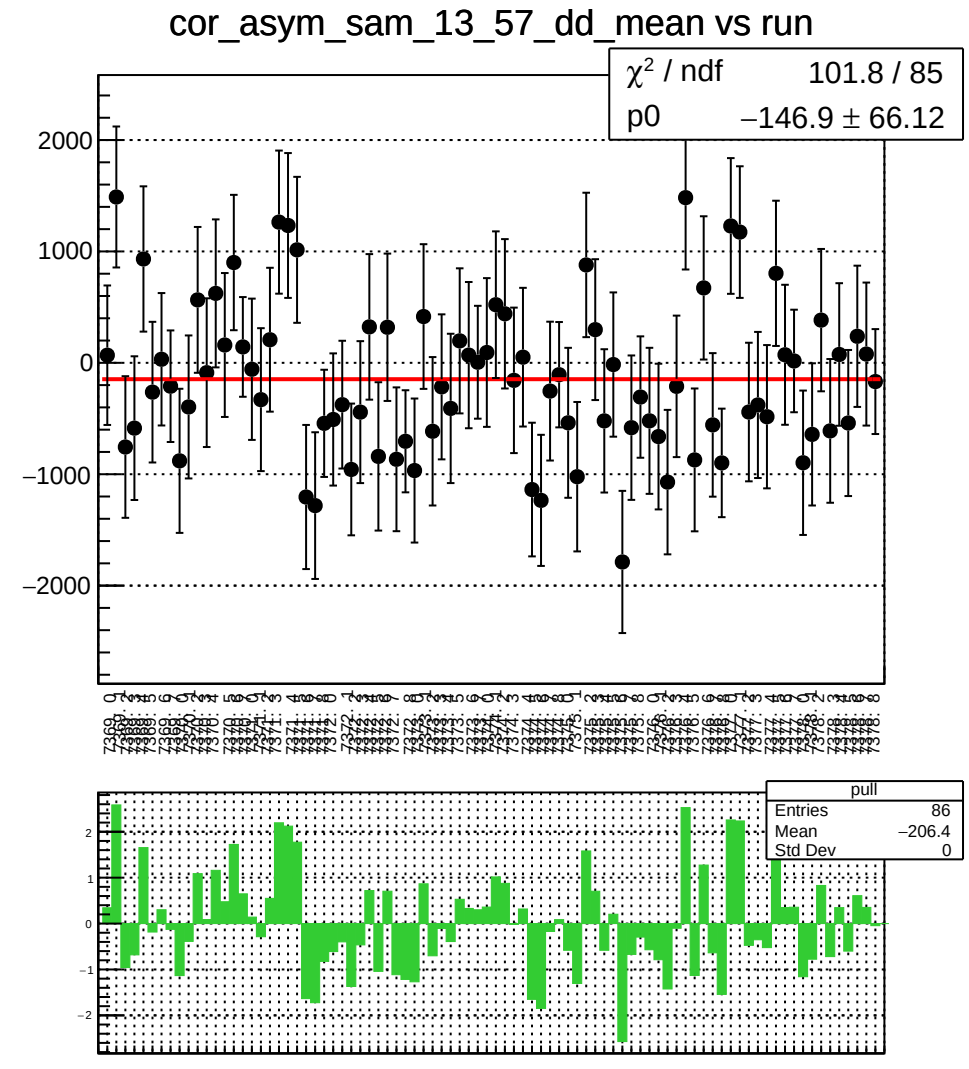

pull1D
Entries 86
Mean 0.01013
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

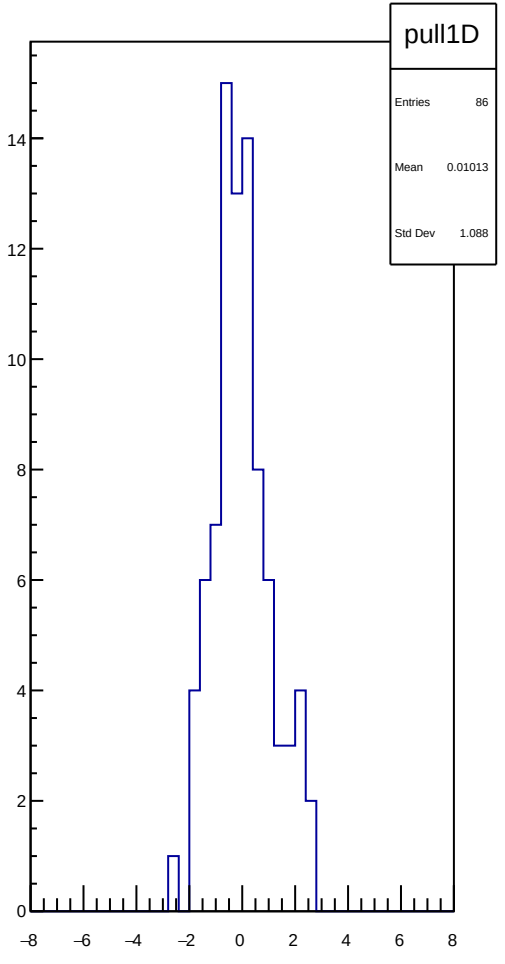

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1924 / 85
p0 60.64 ± 0.04675
64
62
60
58
56
54

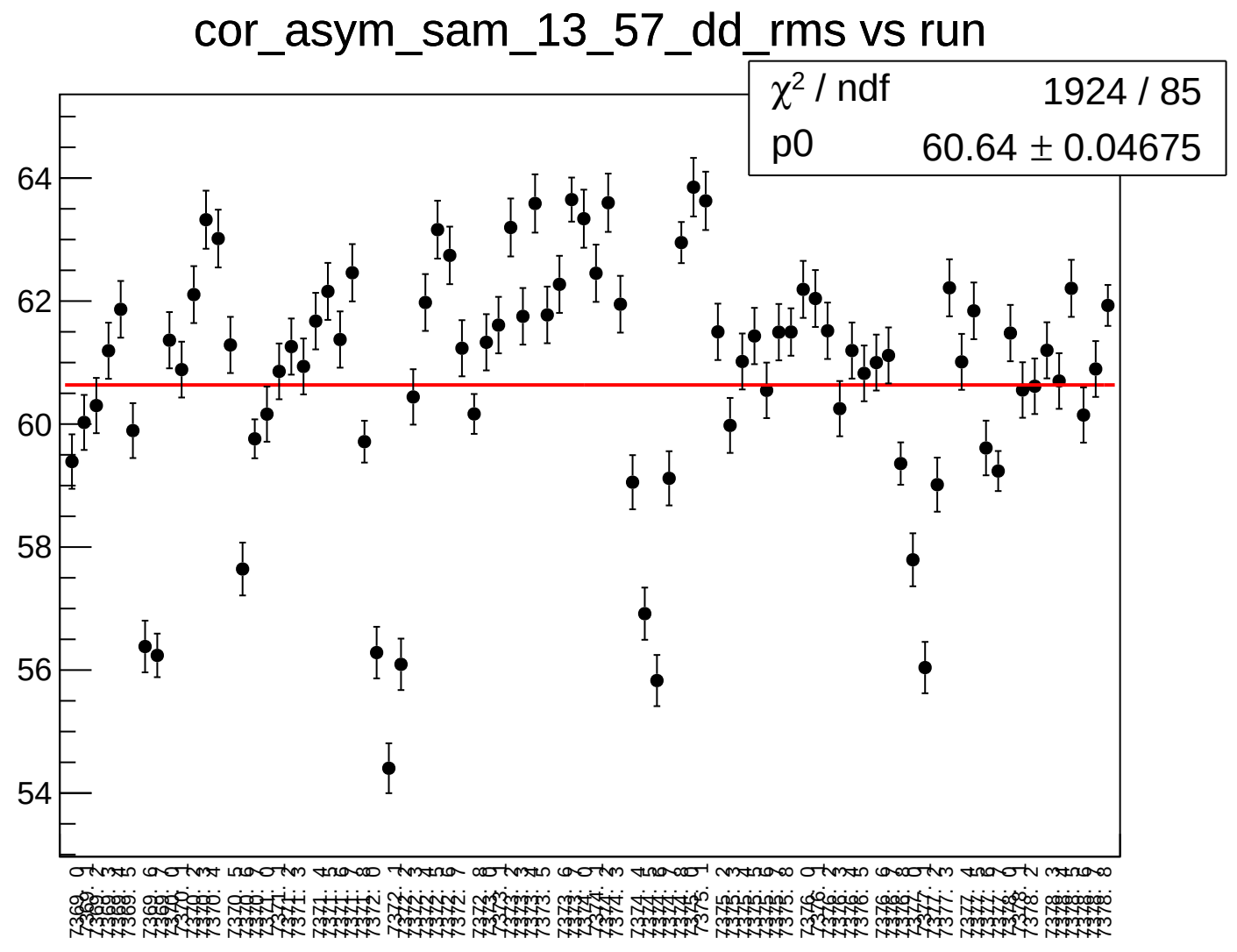

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 91.49 / 85
p0 159.6 ± 316.4
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 129
Std Dev 0
3
2
1
0
−1
−2

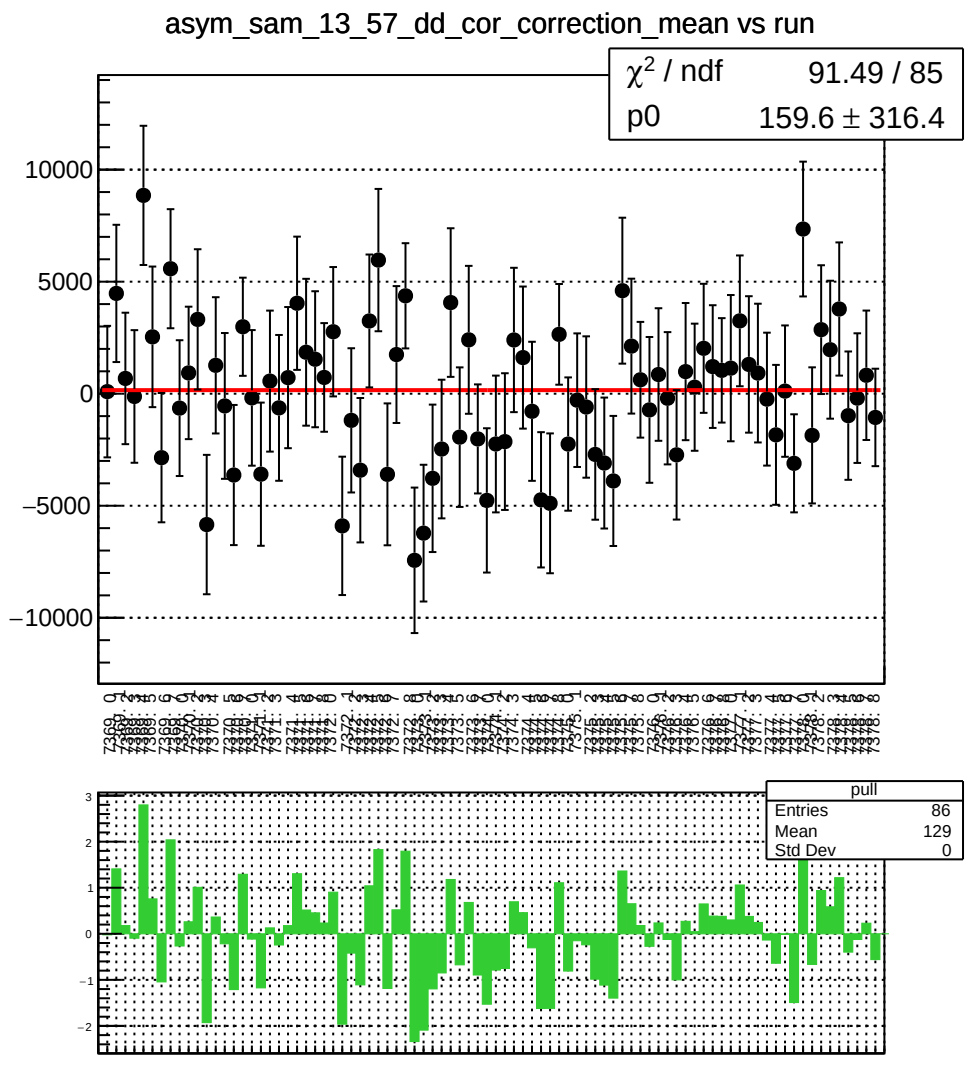

pull1D
Entries 86
Mean −0.01319
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

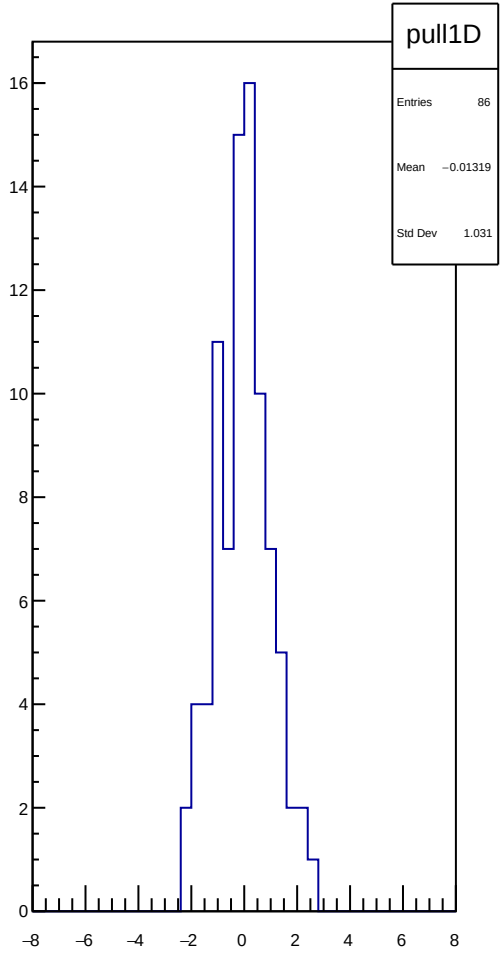

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2882 / 85
p0 290.1 ± 0.2237
320
310
300
290
280
270
260

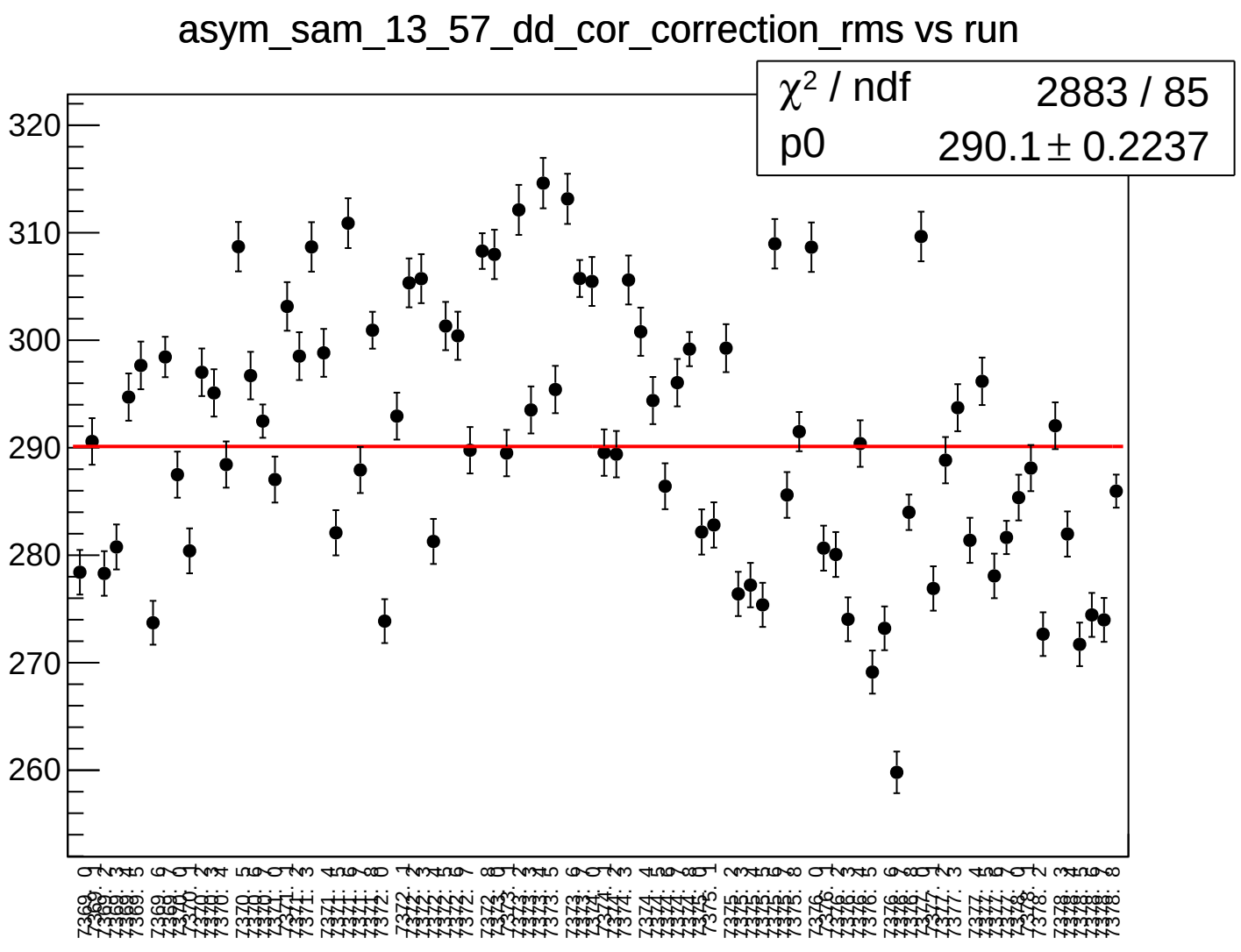

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 101.8 / 85
p0 −146.9 ± 66.12
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −206.4
Std Dev 0

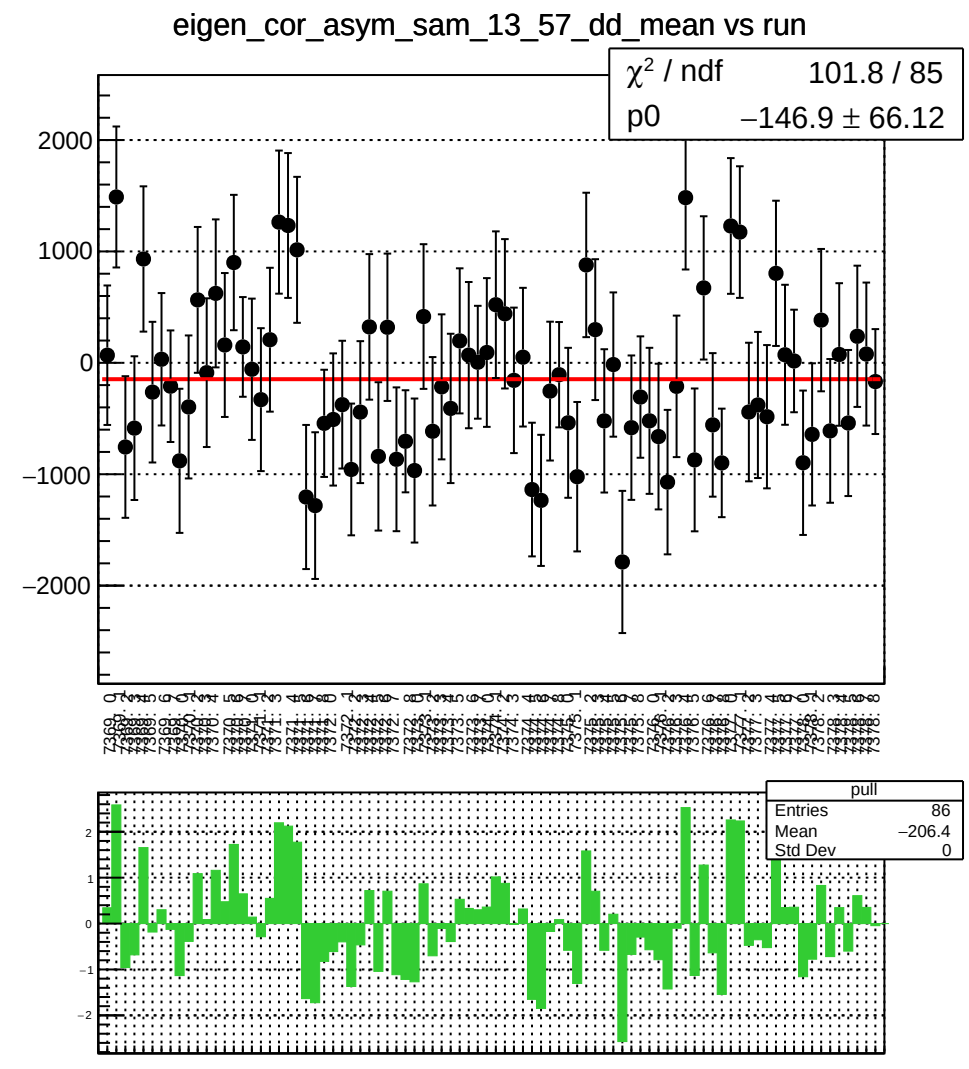

pull1D
Entries 86
Mean 0.01013
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

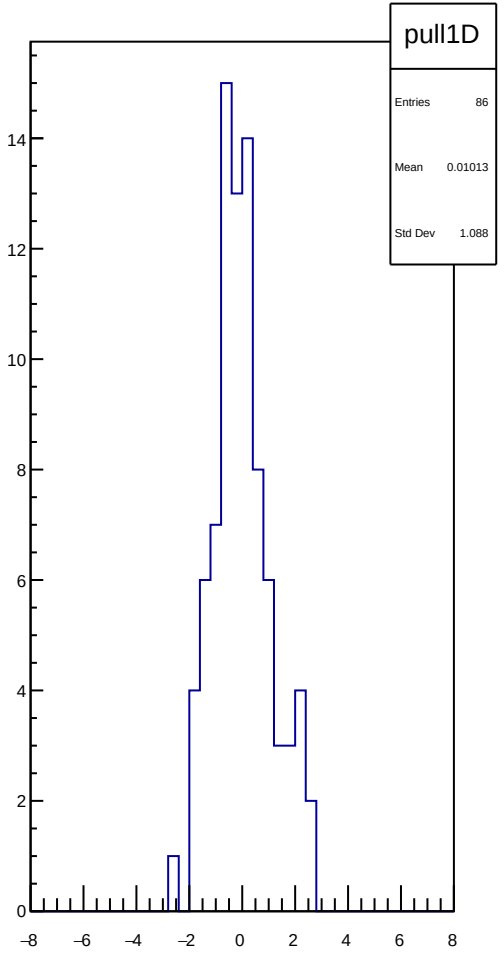

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1924 / 85
p0 60.64 ± 0.04675
64
62
60
58
56
54

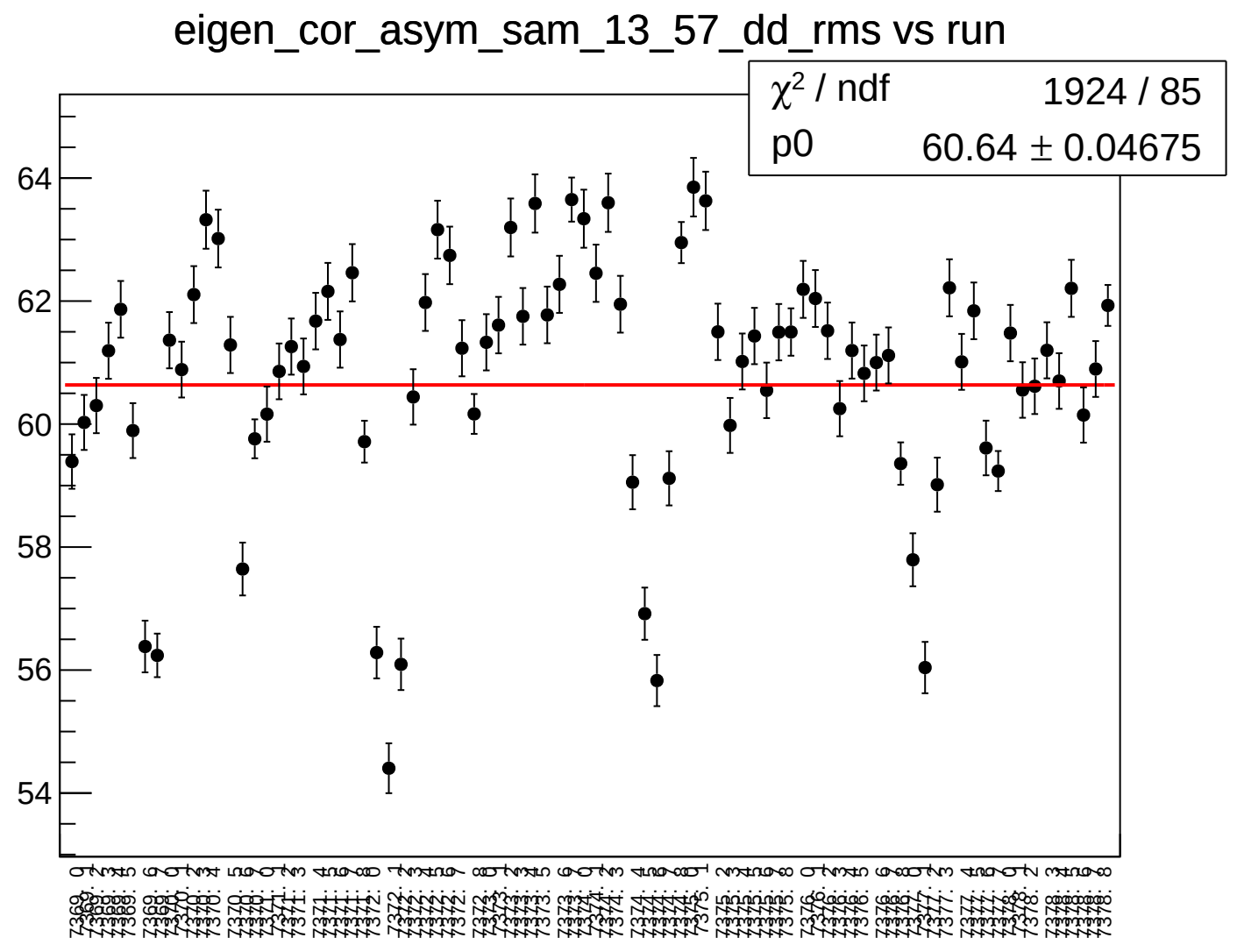

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 91.49 / 85
p0 159.6 ± 316.4
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 129
Std Dev 0
3
2
1
0
−1
−2

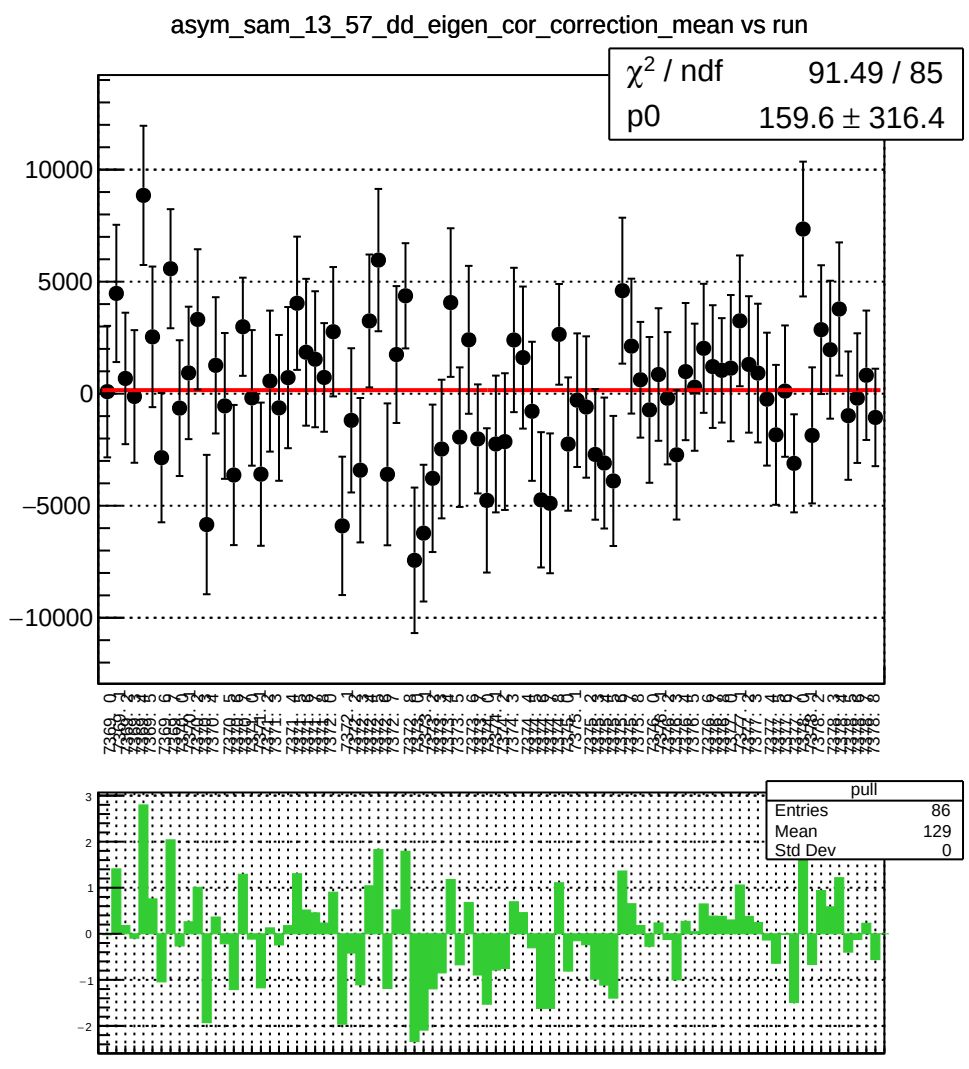

pull1D
Entries 86
Mean −0.01319
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

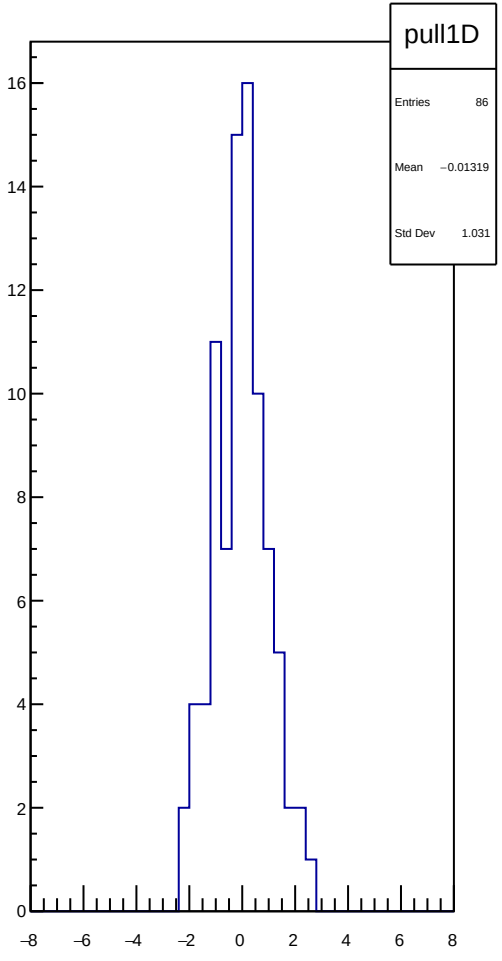

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2883 / 85
p0 290.1 ± 0.2237
320
310
300
290
280
270
260

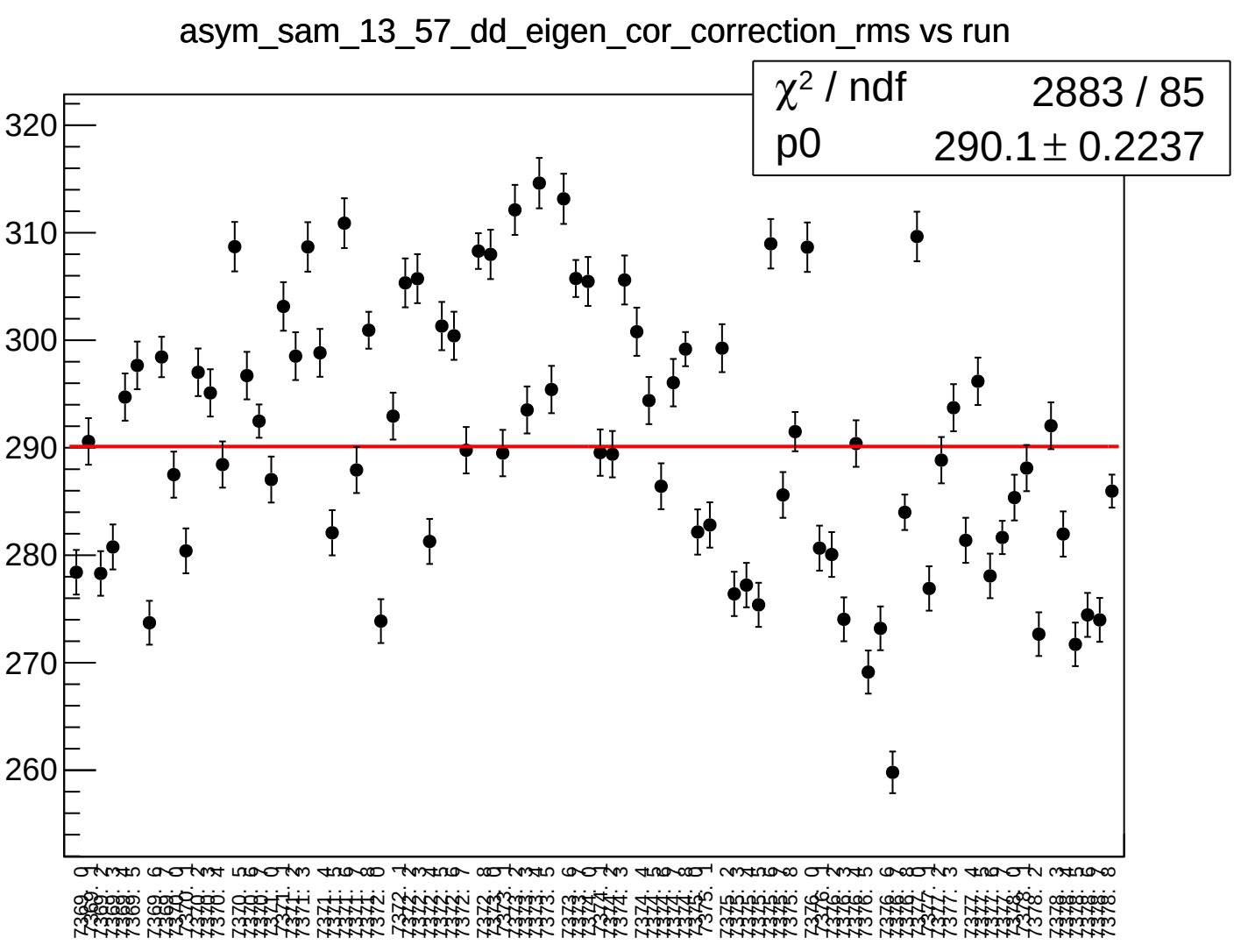

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 101.8 / 85
p0 −146.9 ± 66.12
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −206.4
Std Dev 0
2
1
0
−1
−2

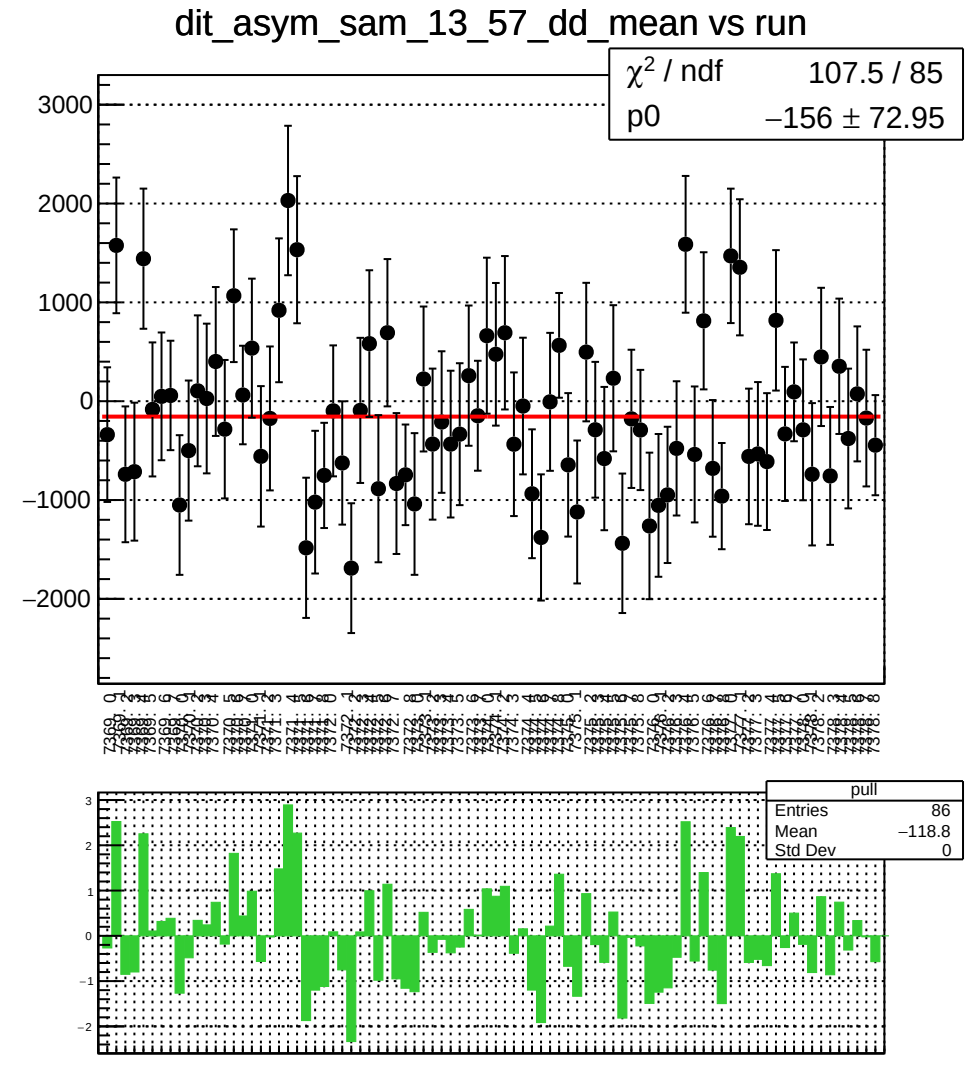

pull1D
Entries 86
Mean 0.01013
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

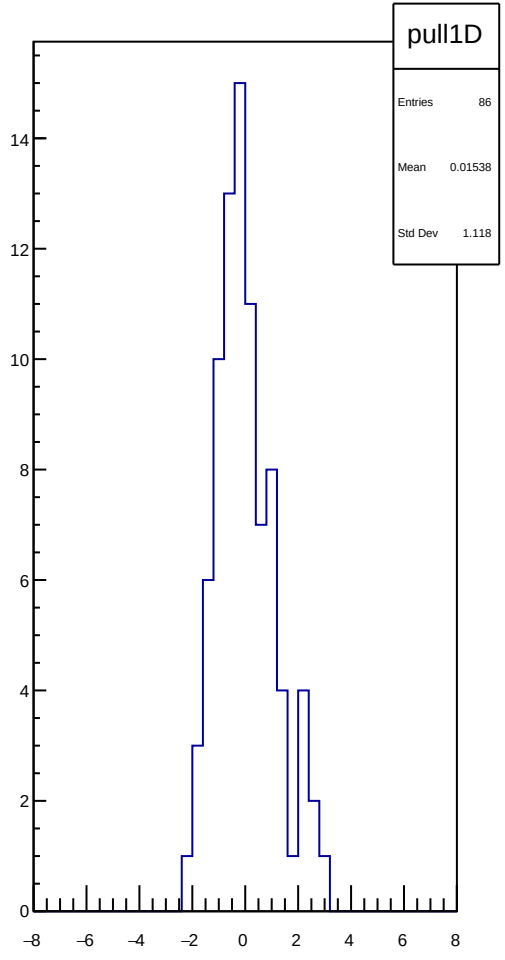

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1924 / 85
p0 60.64 ± 0.04675
64
62
60
58
56
54

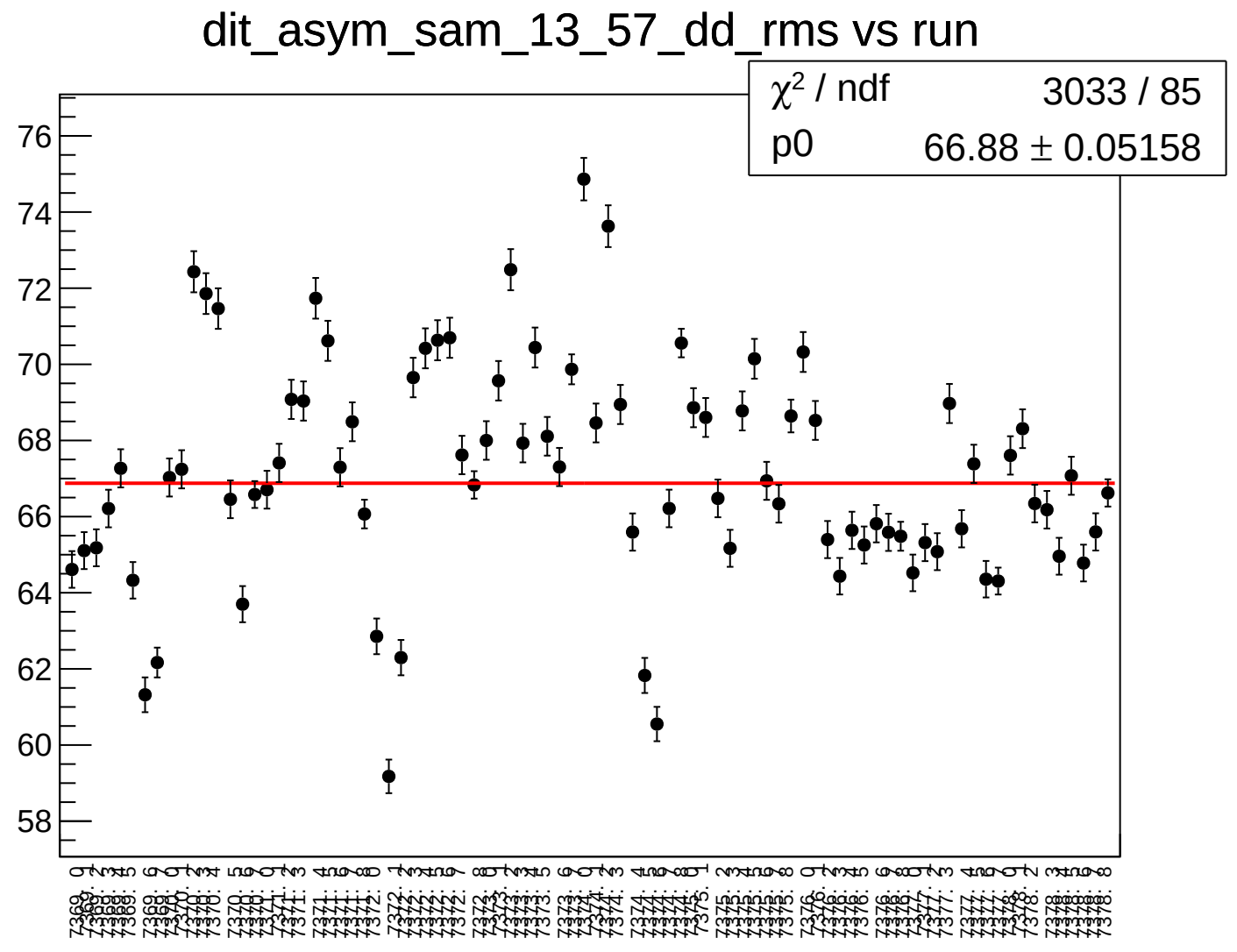

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.49 / 85
p0 159.6 ± 316.4
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 129
Std Dev 0
3
2
1
0
−1
−2

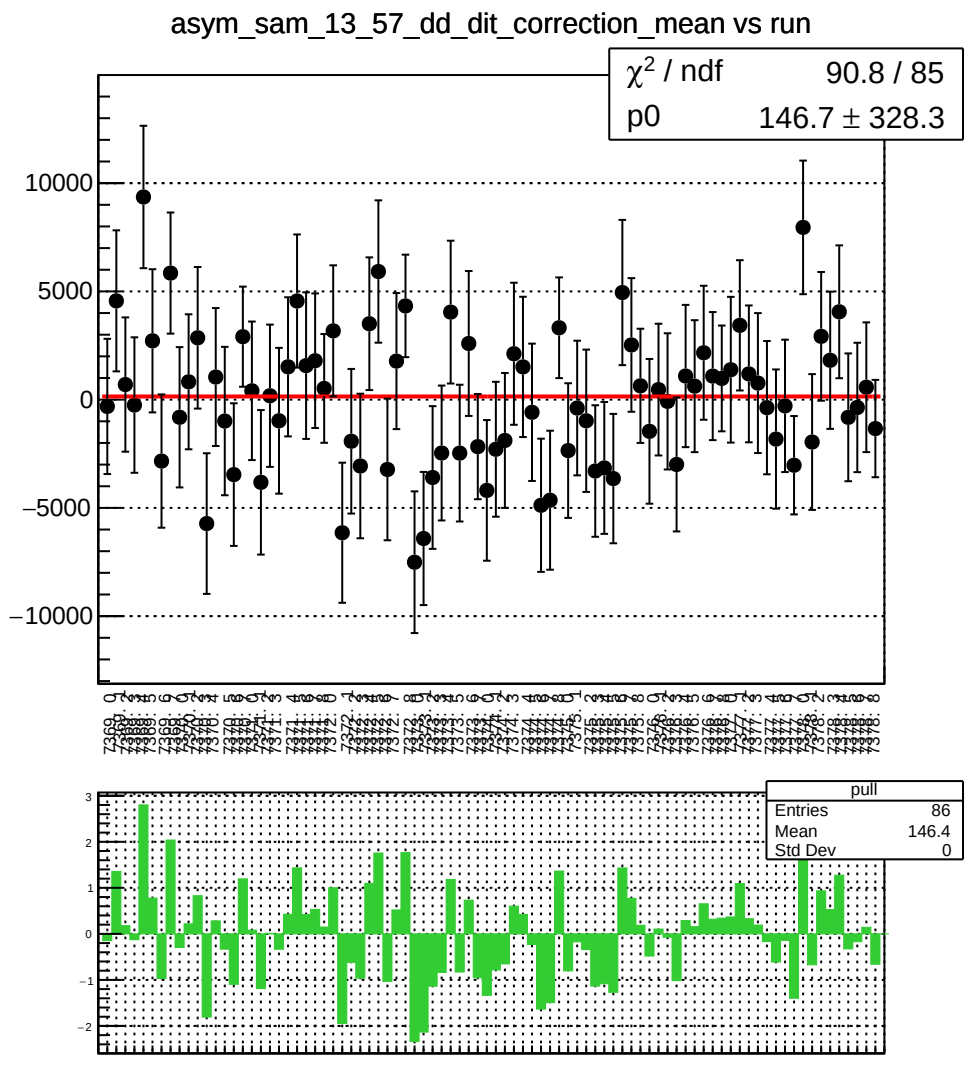

pull1D
Entries 86
Mean −0.01319
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

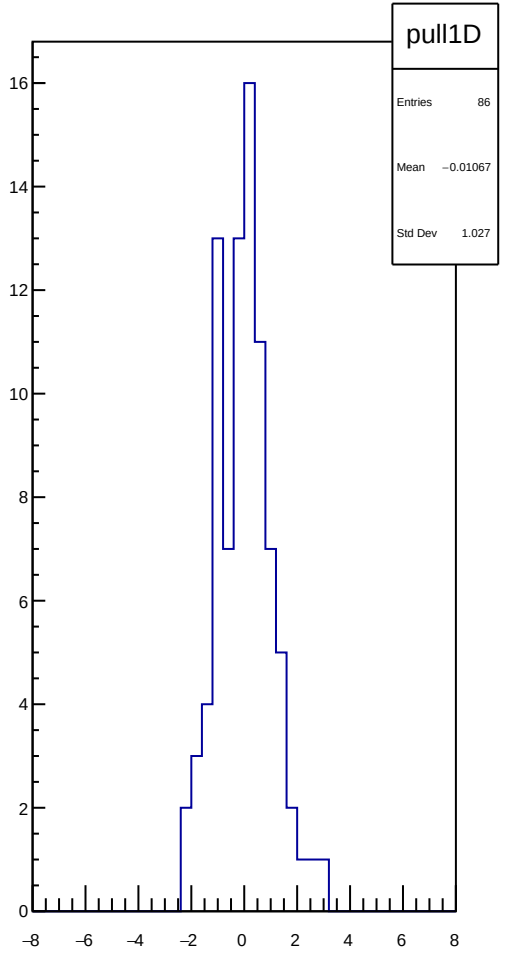

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2883 / 85
p0 290.1 ± 0.2237
320
310
300
290
280
270
260

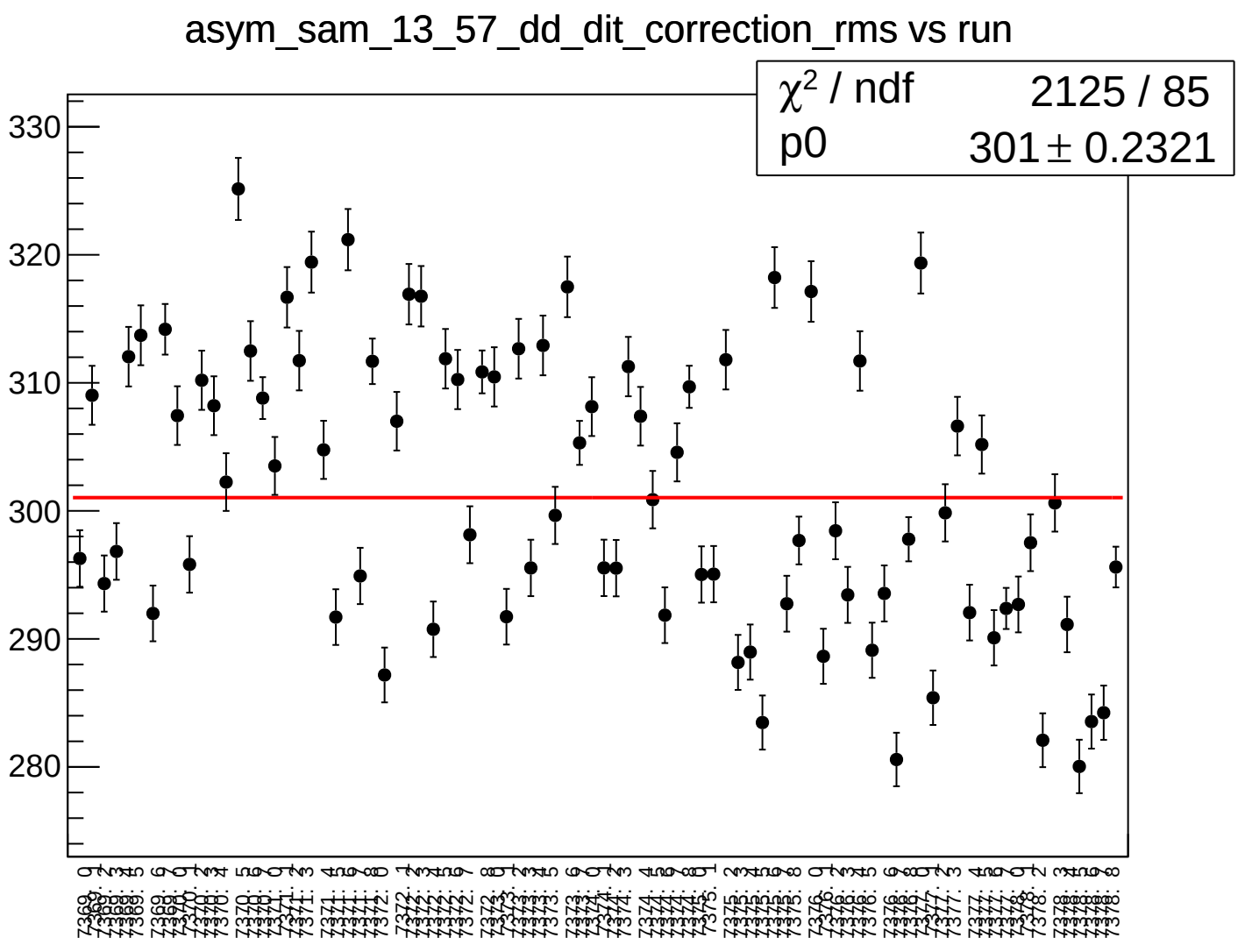

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 107.5 / 85
p0 −156 ± 72.95
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −118.8
Std Dev 0
3
2
1
0
−1
−2

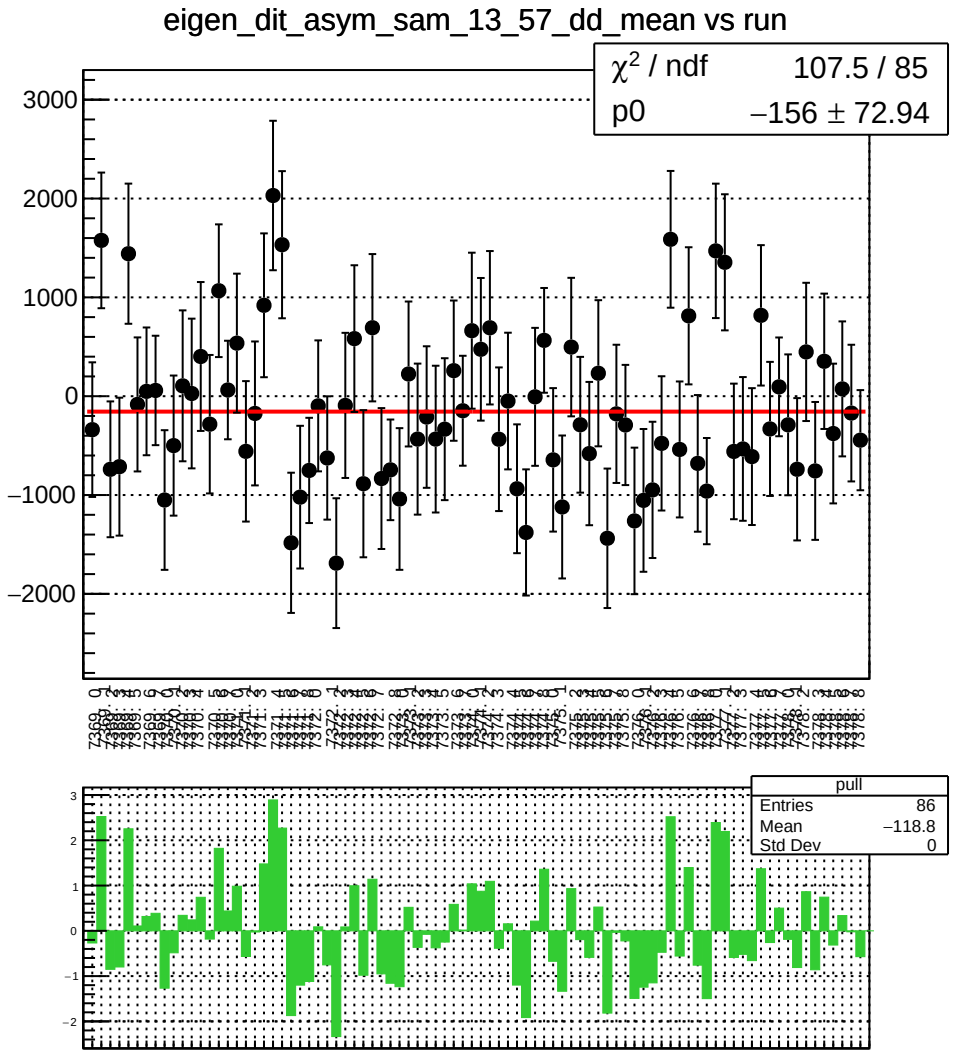

pull1D
Entries 86
Mean 0.01538
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

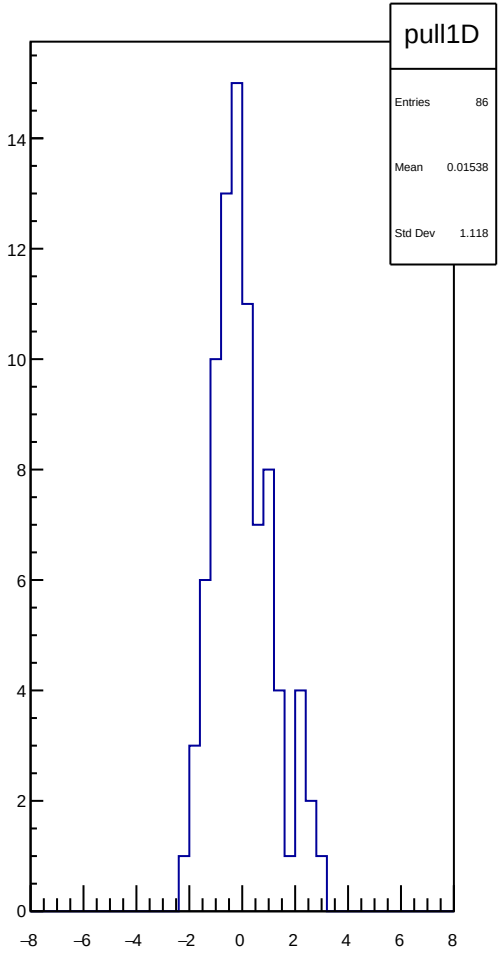

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3033 / 85
p0 66.88 ± 0.05158
76
74
72
70
68
66
64
62
60
58

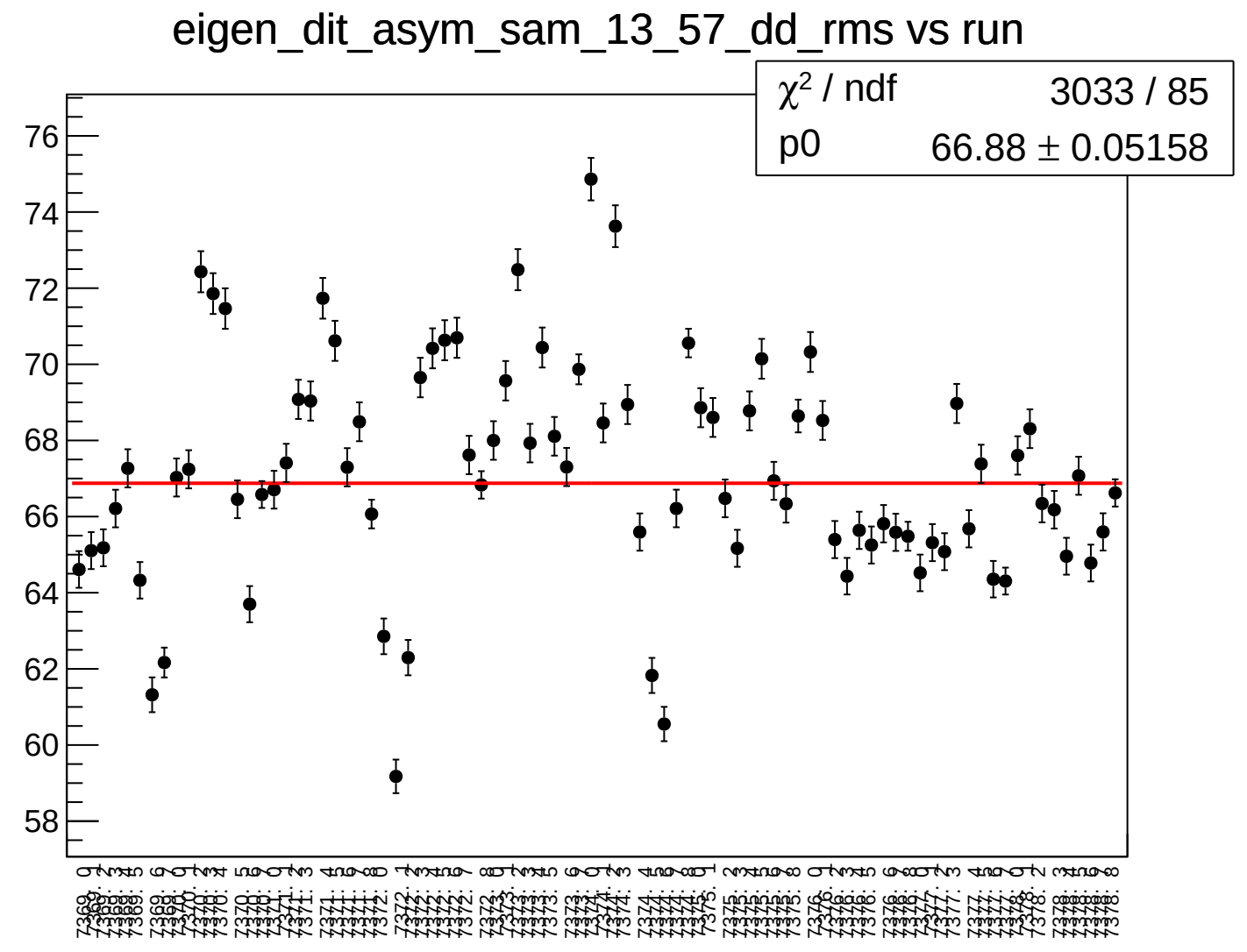

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 90.8 / 85
p0 146.7 ± 328.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 146.4
Std Dev 0
3
2
1
0
−1
−2

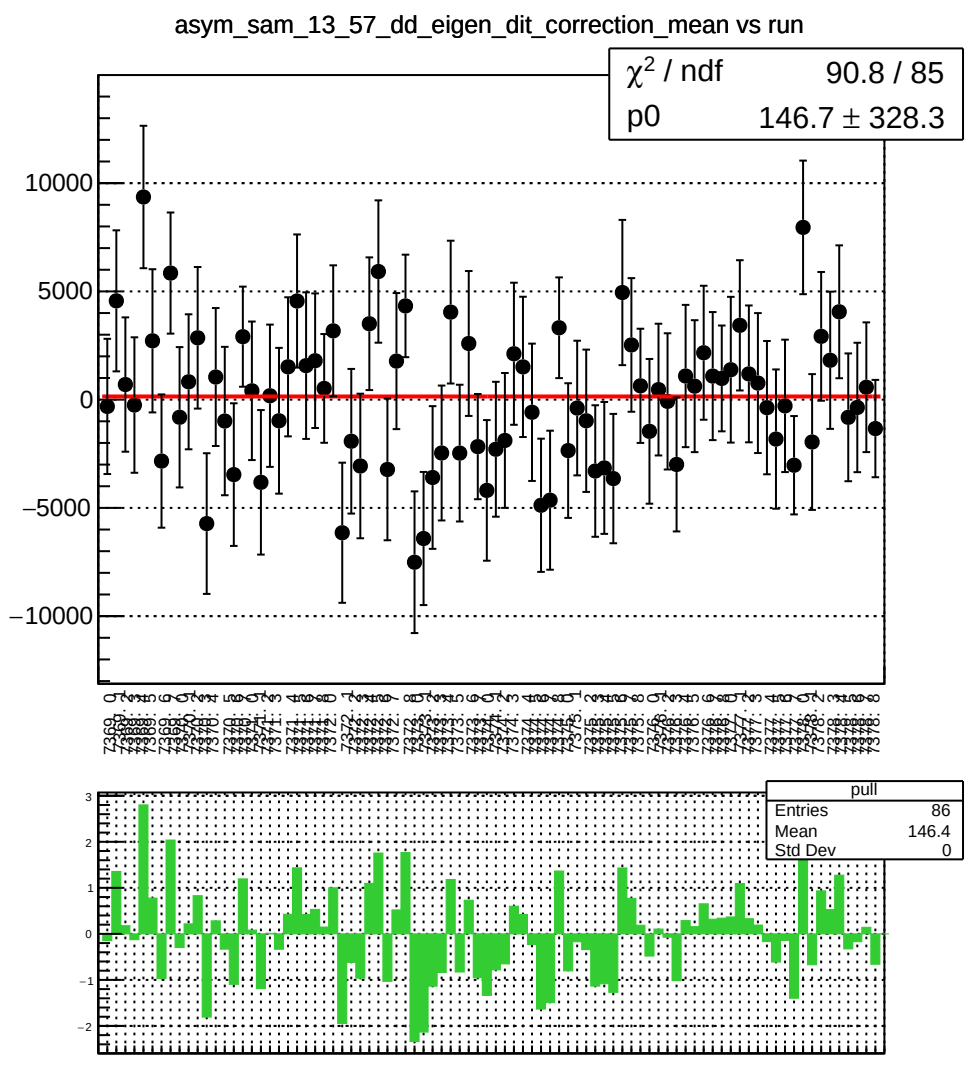

pull1D
Entries 86
Mean −0.01067
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

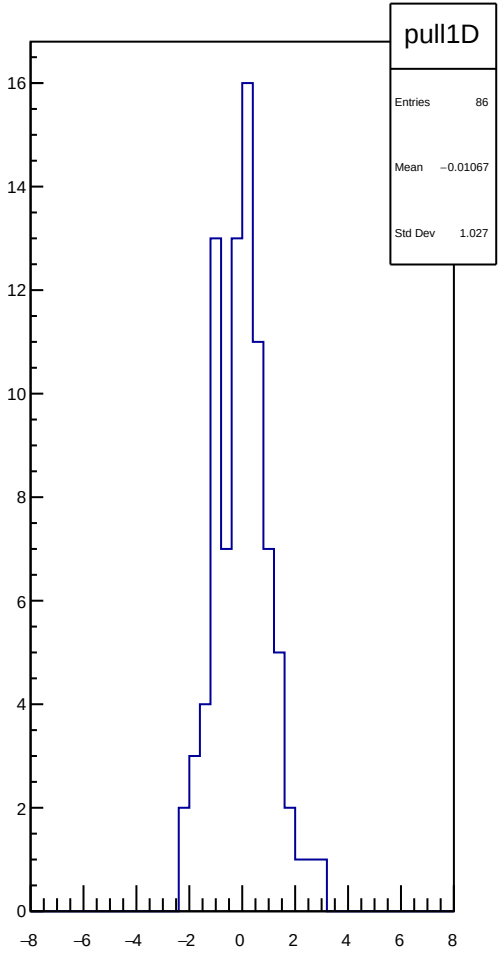

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2125 / 85
p0 301 ± 0.2321
330
320
310
300
290
280

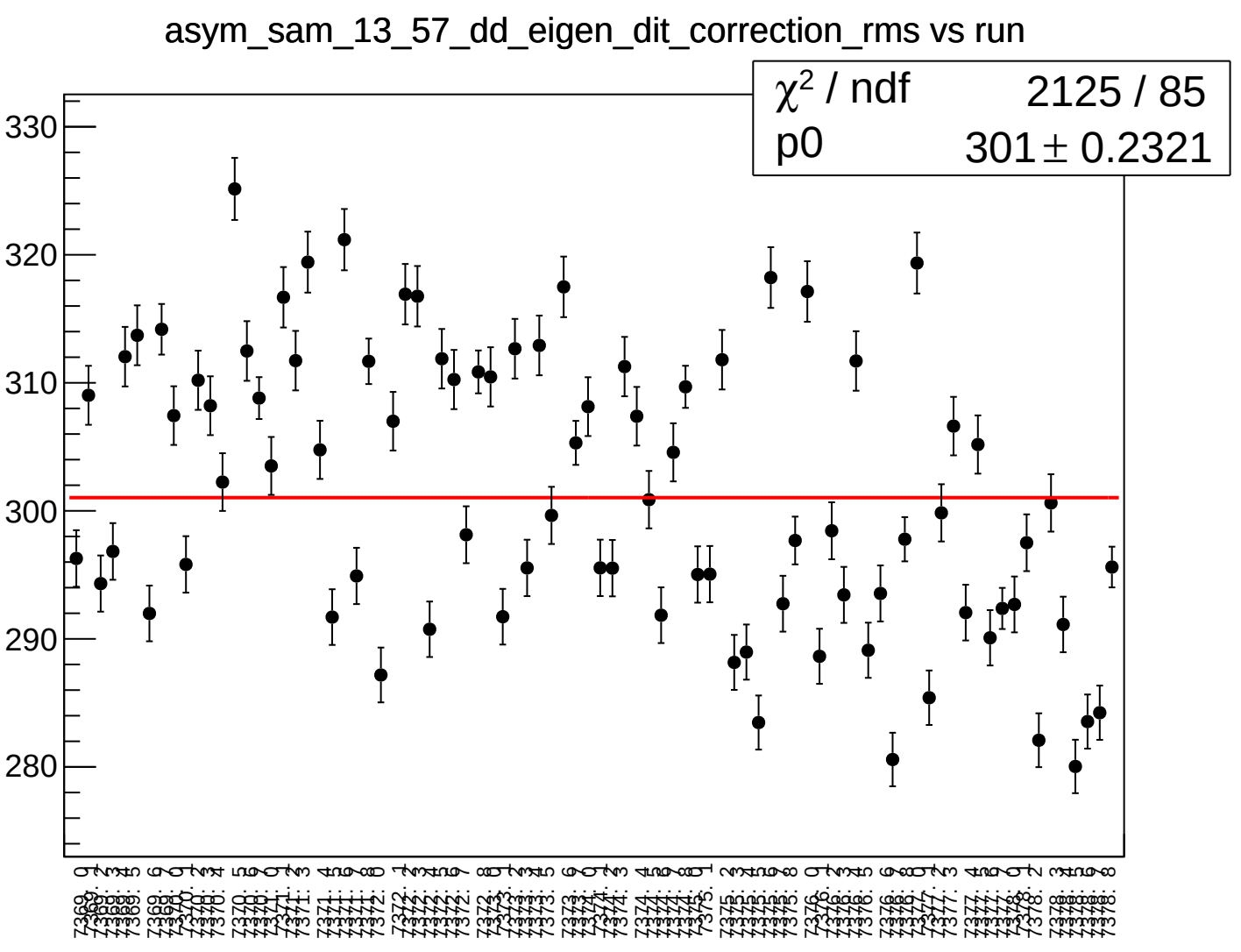

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 107.5 / 85
p0 −156 ± 72.94
pull
Entries 86
Mean −118.8
Std Dev 0

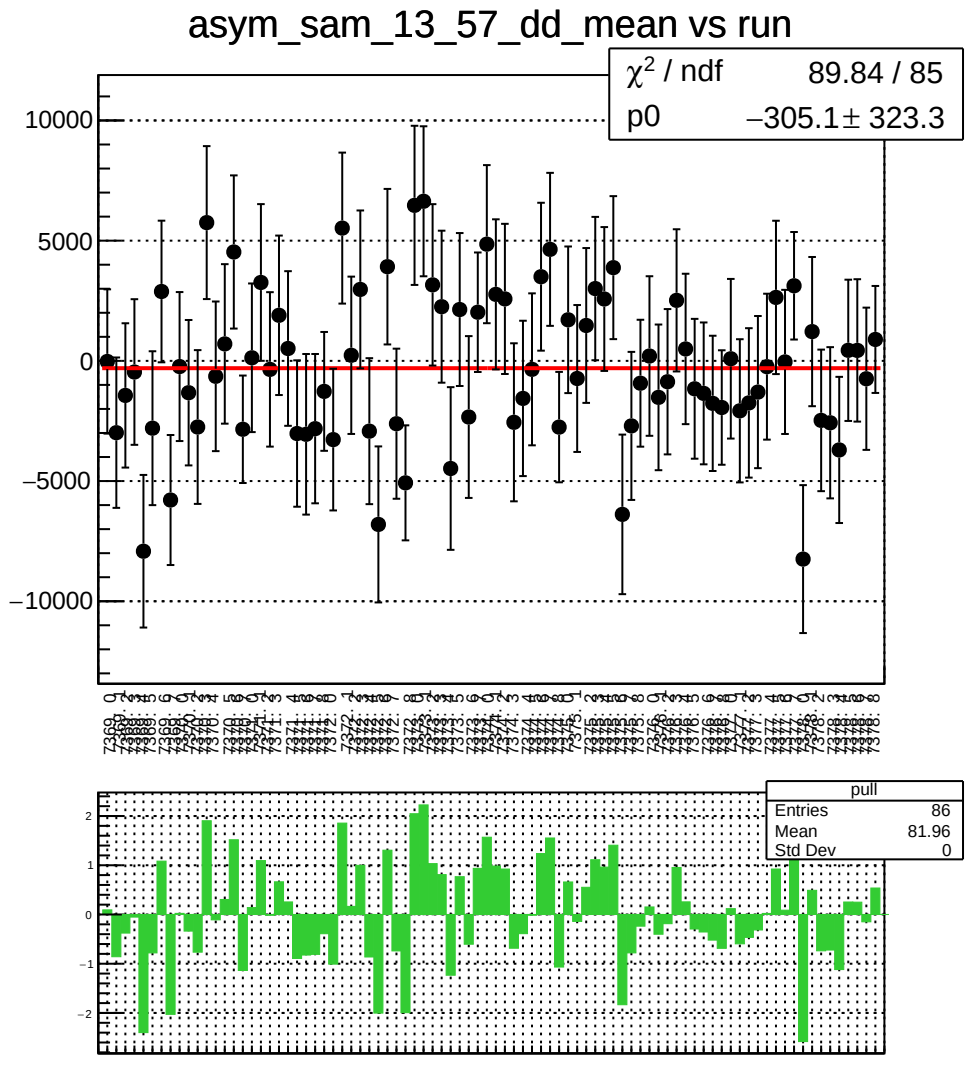

pull1D
Entries 86
Mean 0.01538
Std Dev 1.118

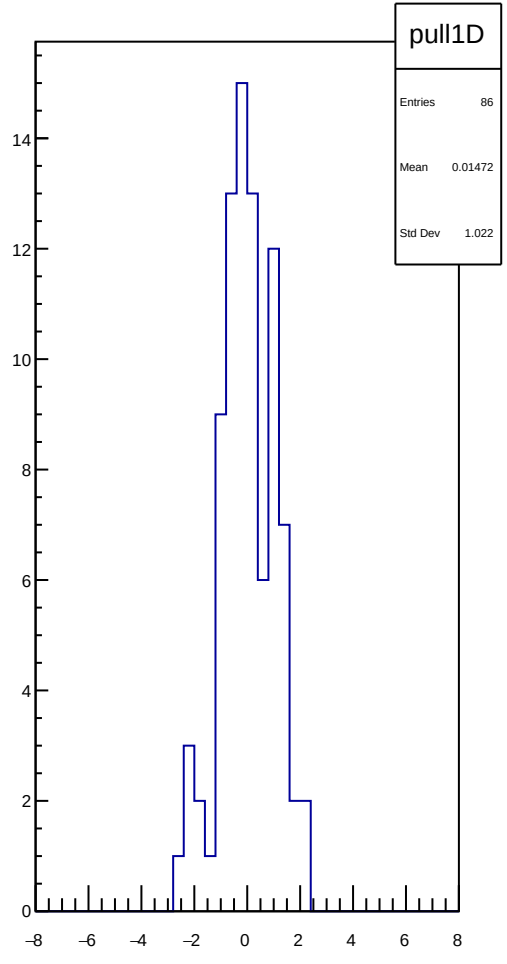

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3033 / 85
p0 66.88 ± 0.05158
76
74
72
70
68
66
64
62
60
58

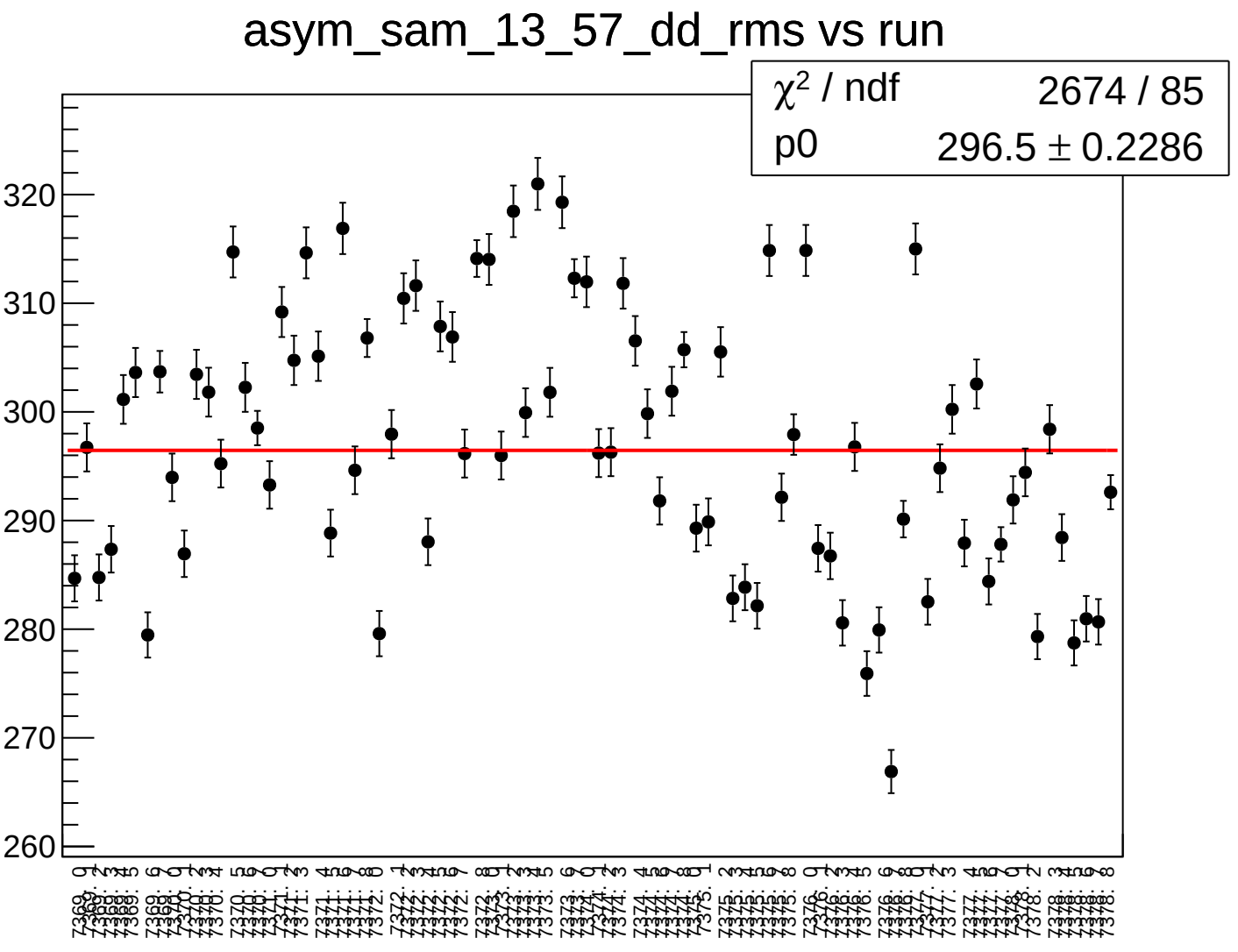

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.8 / 85
p0 146.7 ± 328.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 146.4
Std Dev 0
3
2
1
0
−1
−2

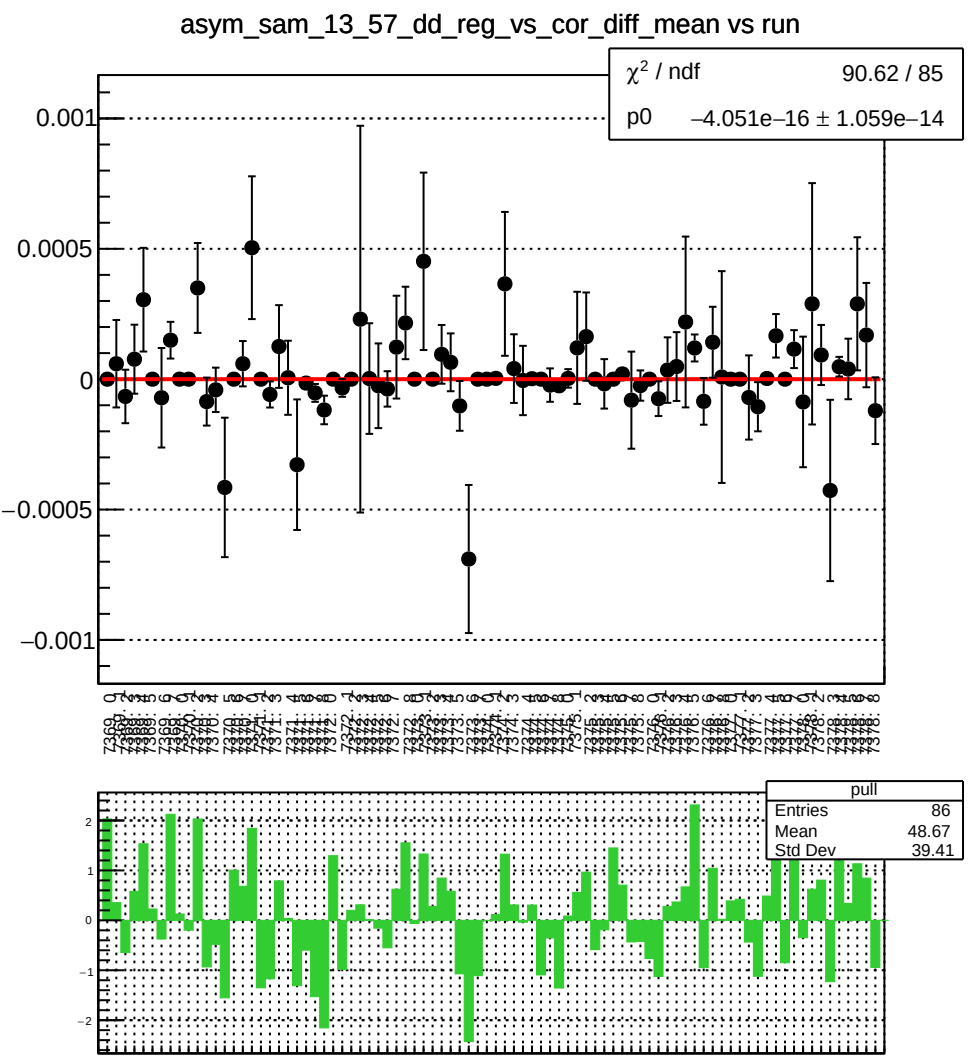

pull1D
Entries 86
Mean −0.01067
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

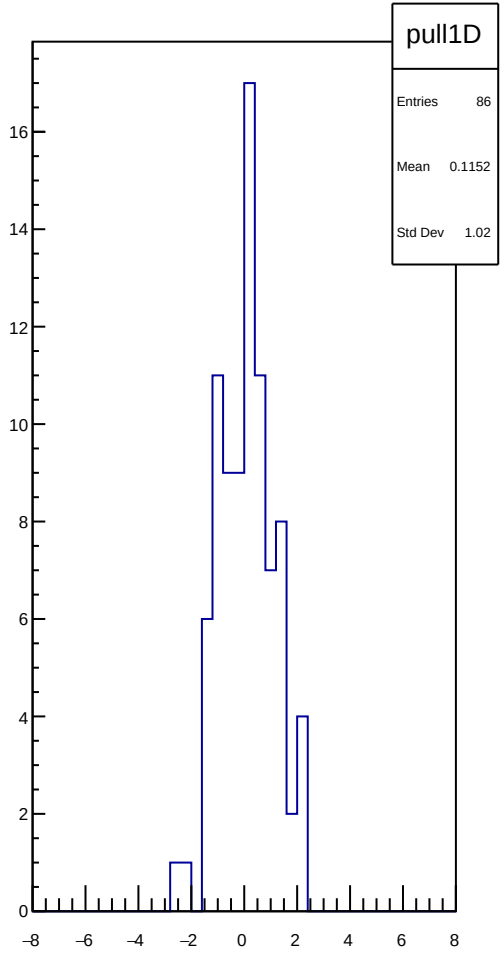

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2125 / 85
p0 301 ± 0.2321
330
320
310
300
290
280

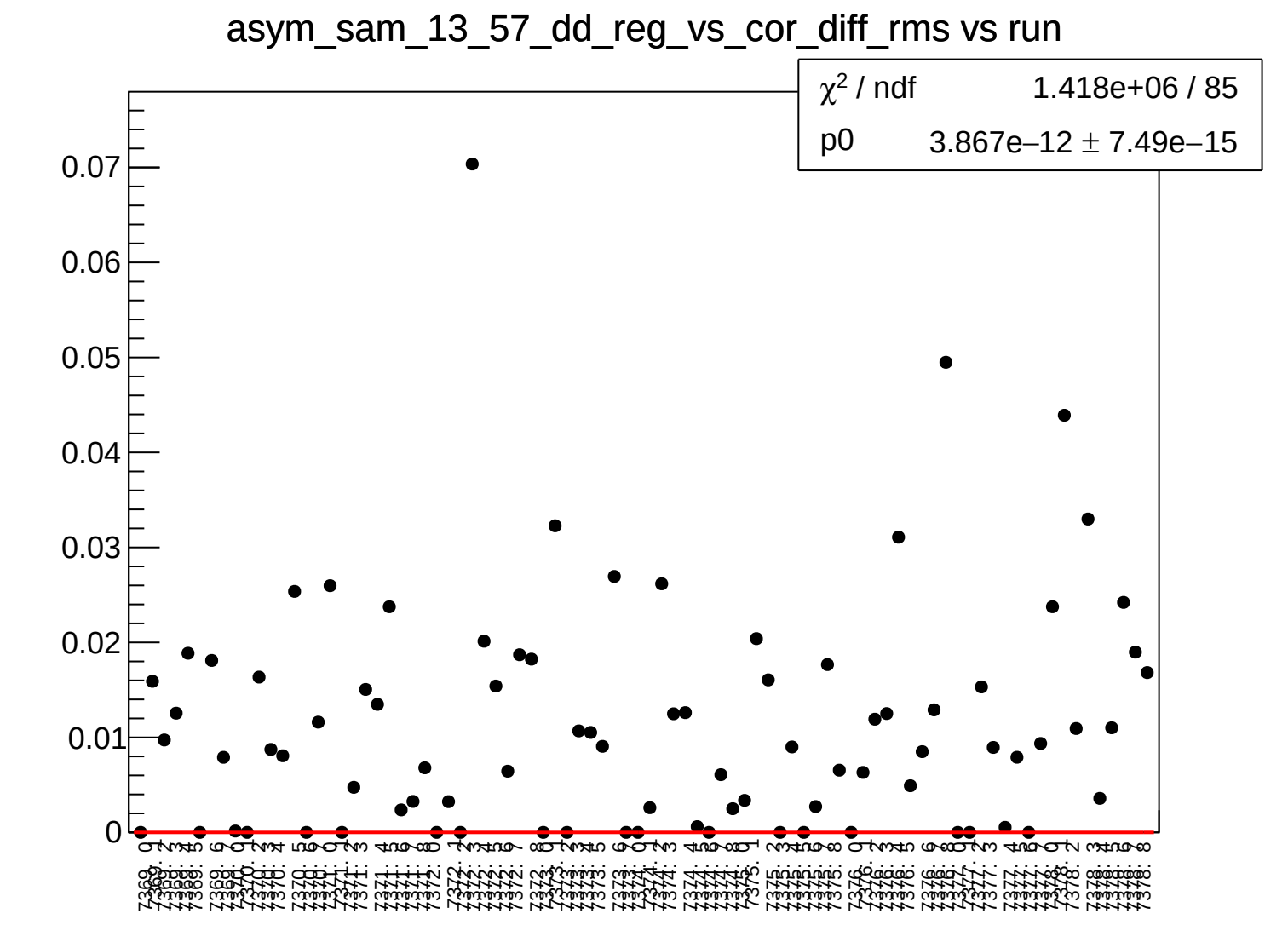

asym_sam_13_57_dd_mean vs run
χ^2 / ndf 89.84 / 85
p0 −305.1± 323.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 81.96
Std Dev 0
2
1
0
−1
−2

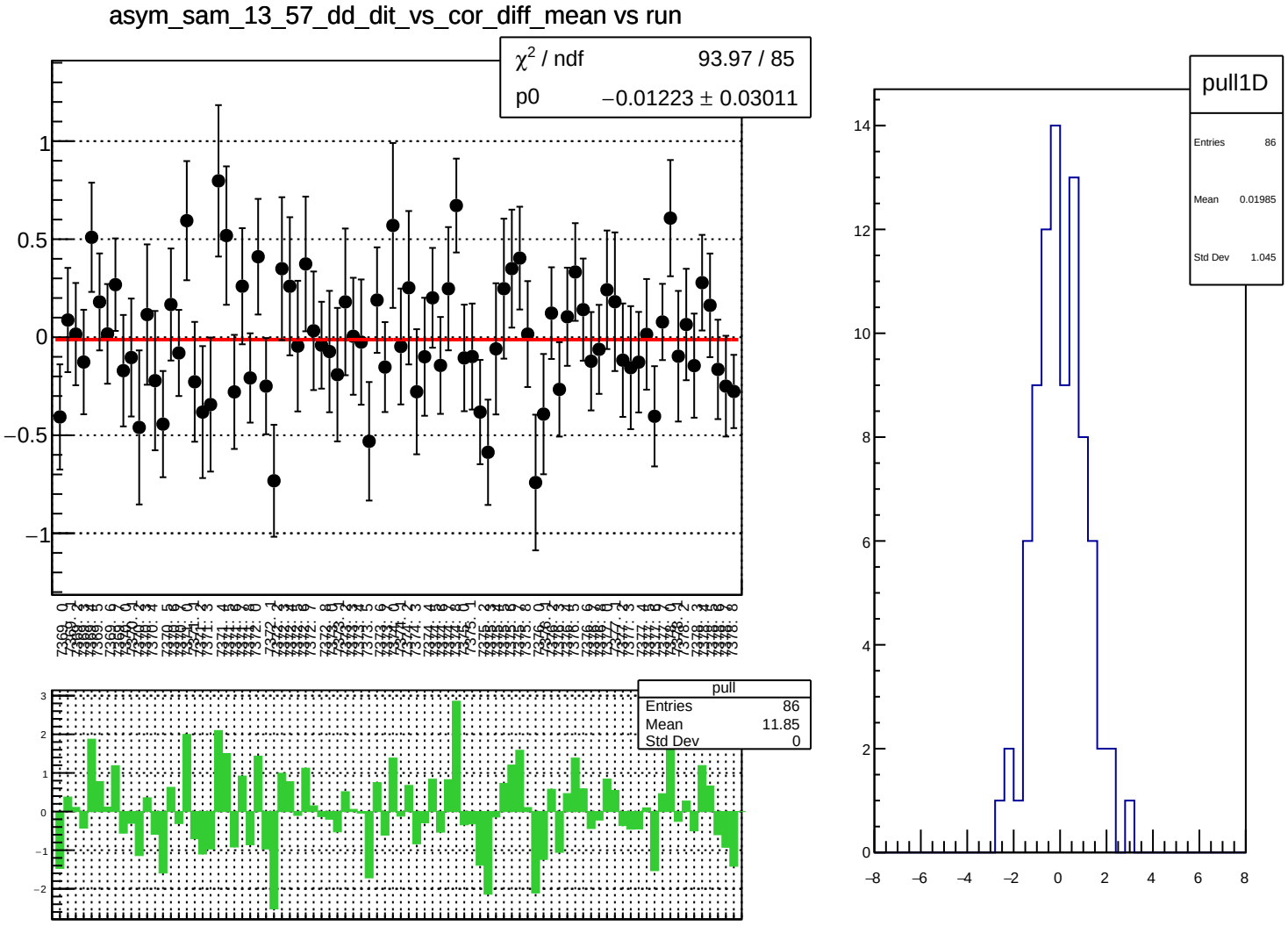

pull1D
Entries 86
Mean 0.01472
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

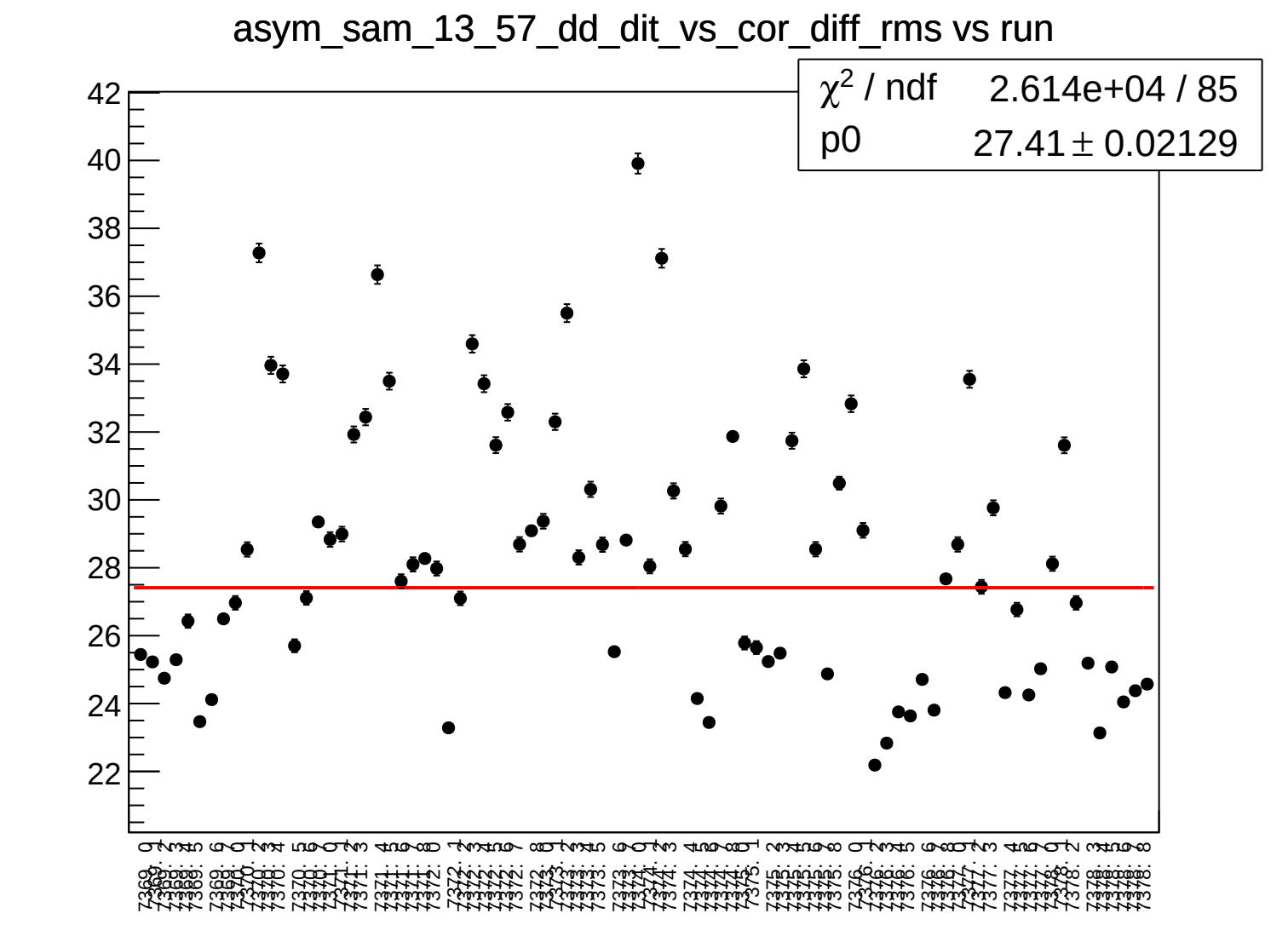

asym_sam_13_57_dd_rms vs run
χ² / ndf 2674 / 85
p0 296.5 ± 0.2286
320
310
300
290
280
270
260

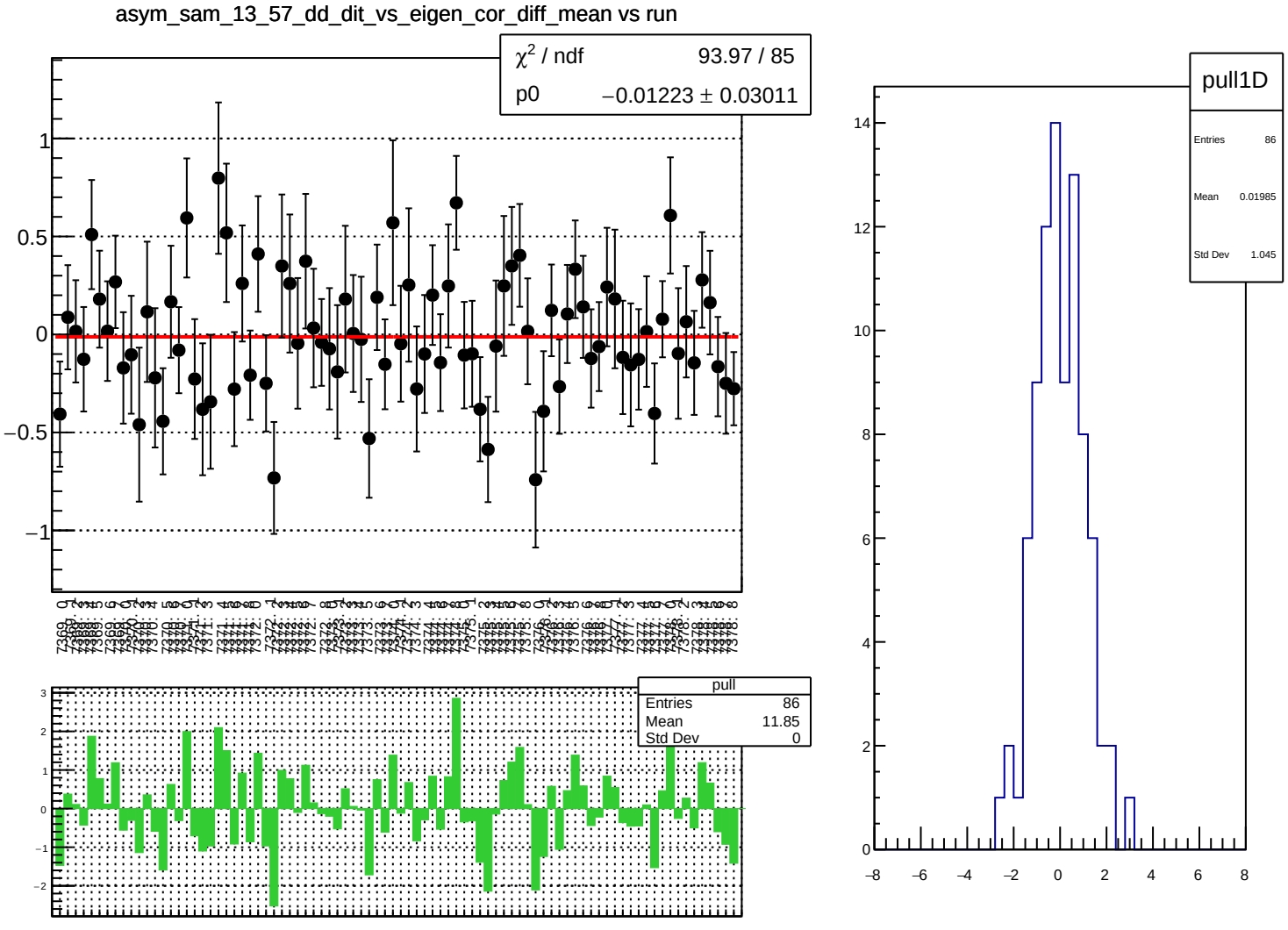

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.62 / 85
p0 −4.051e−16 ± 1.059e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 48.67
Std Dev 39.41
2
1
0
−1
−2

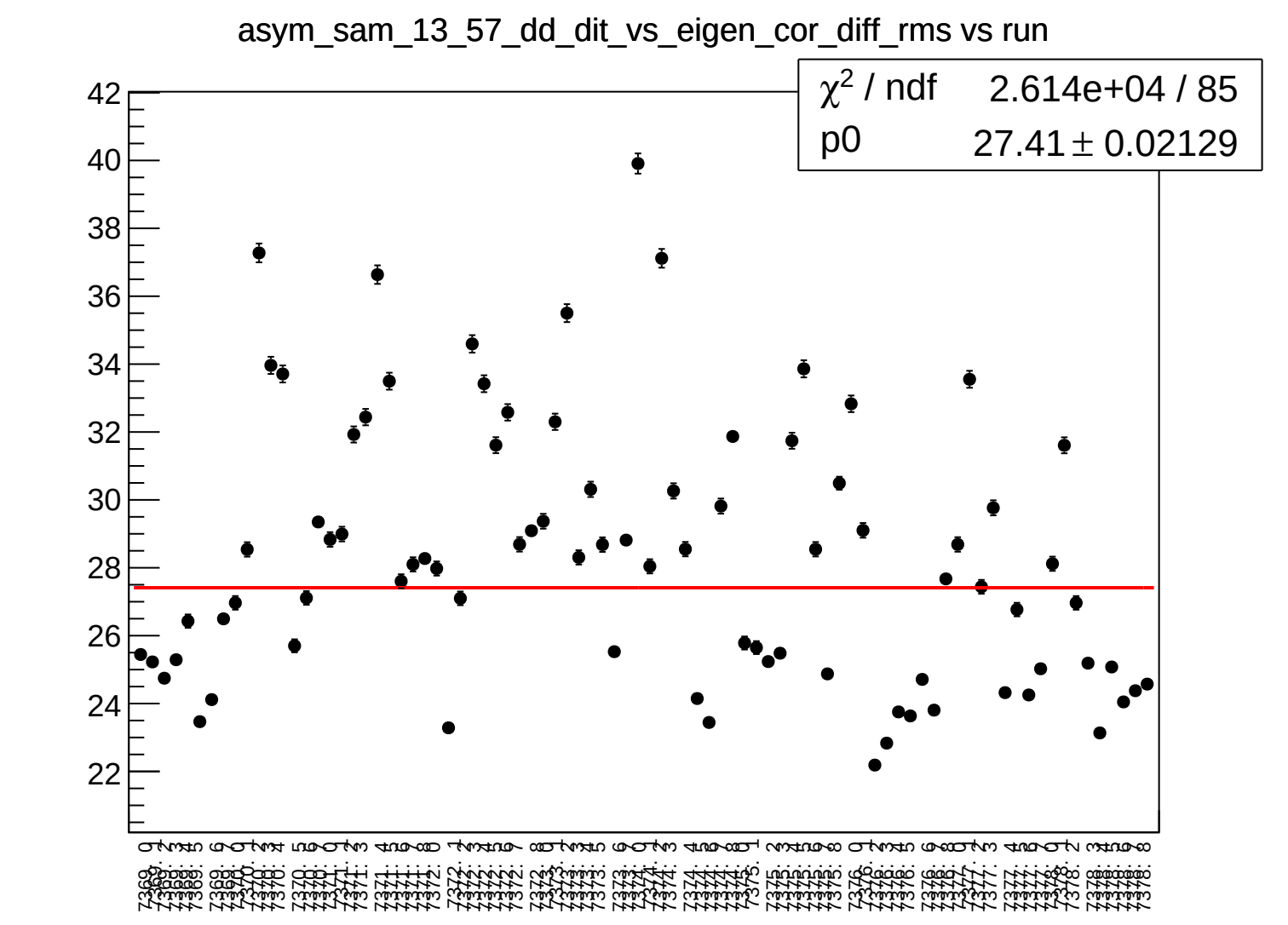

pull1D
Entries 86
Mean 0.1152
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

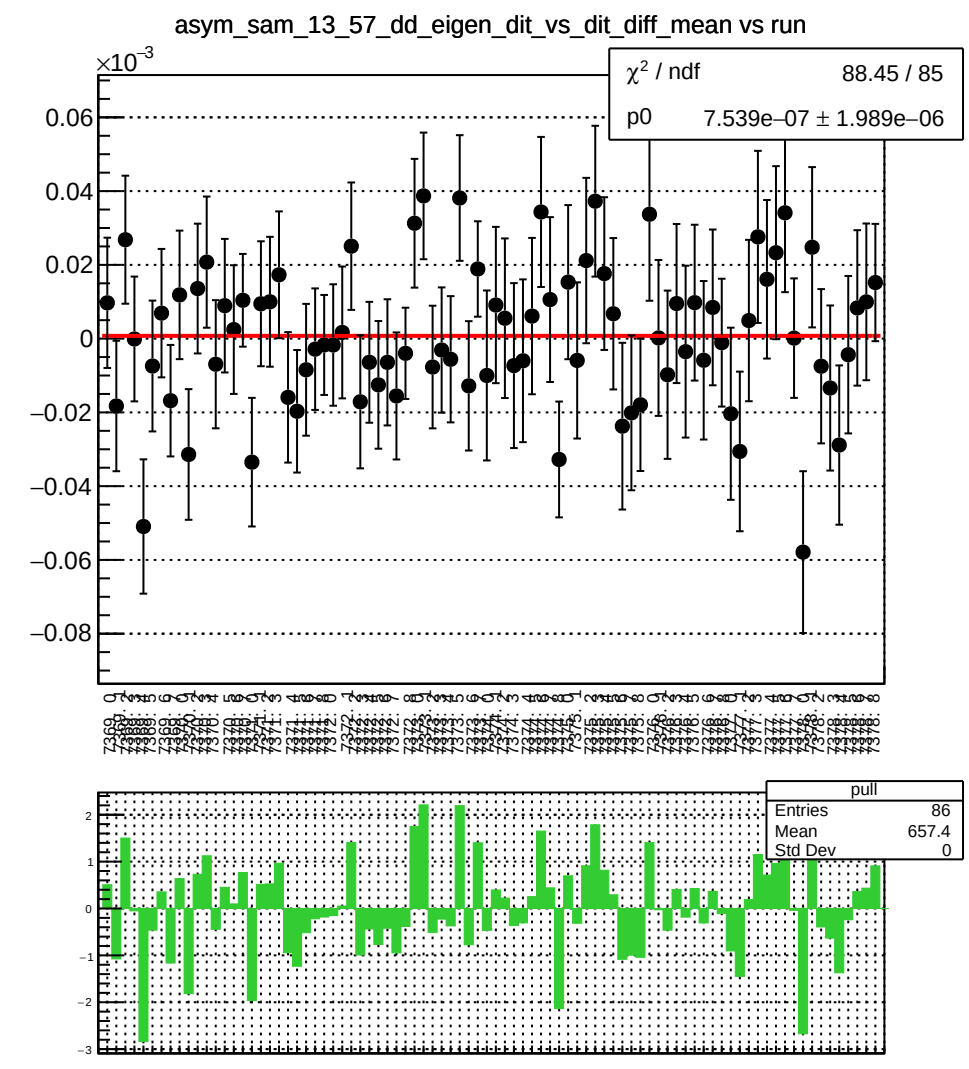

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.418e+06 / 85
p0 3.867e−12 ± 7.49e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

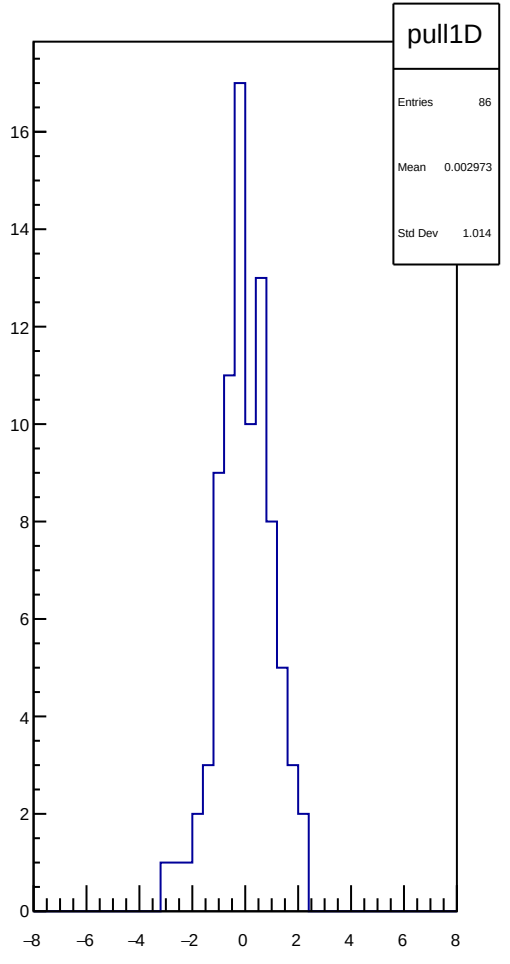

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.97 / 85
p0 −0.01223 ± 0.03011
pull
Entries 86
Mean 11.85
Std Dev 0
pull1D
Entries 86
Mean 0.01985
Std Dev 1.045

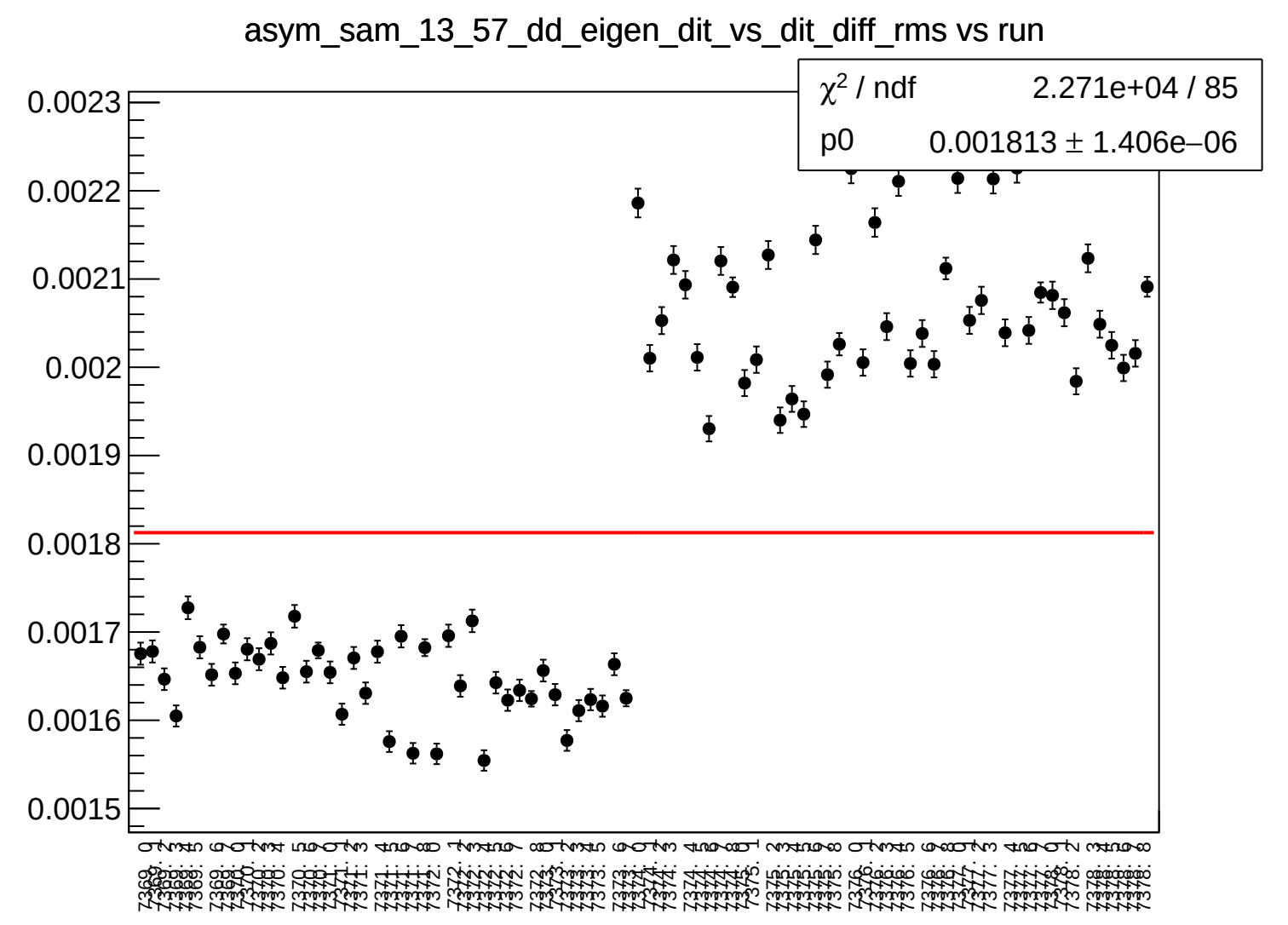

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.614e+04 / 85
p0 27.41 ± 0.02129
42
40
38
36
34
32
30
28
26
24
22

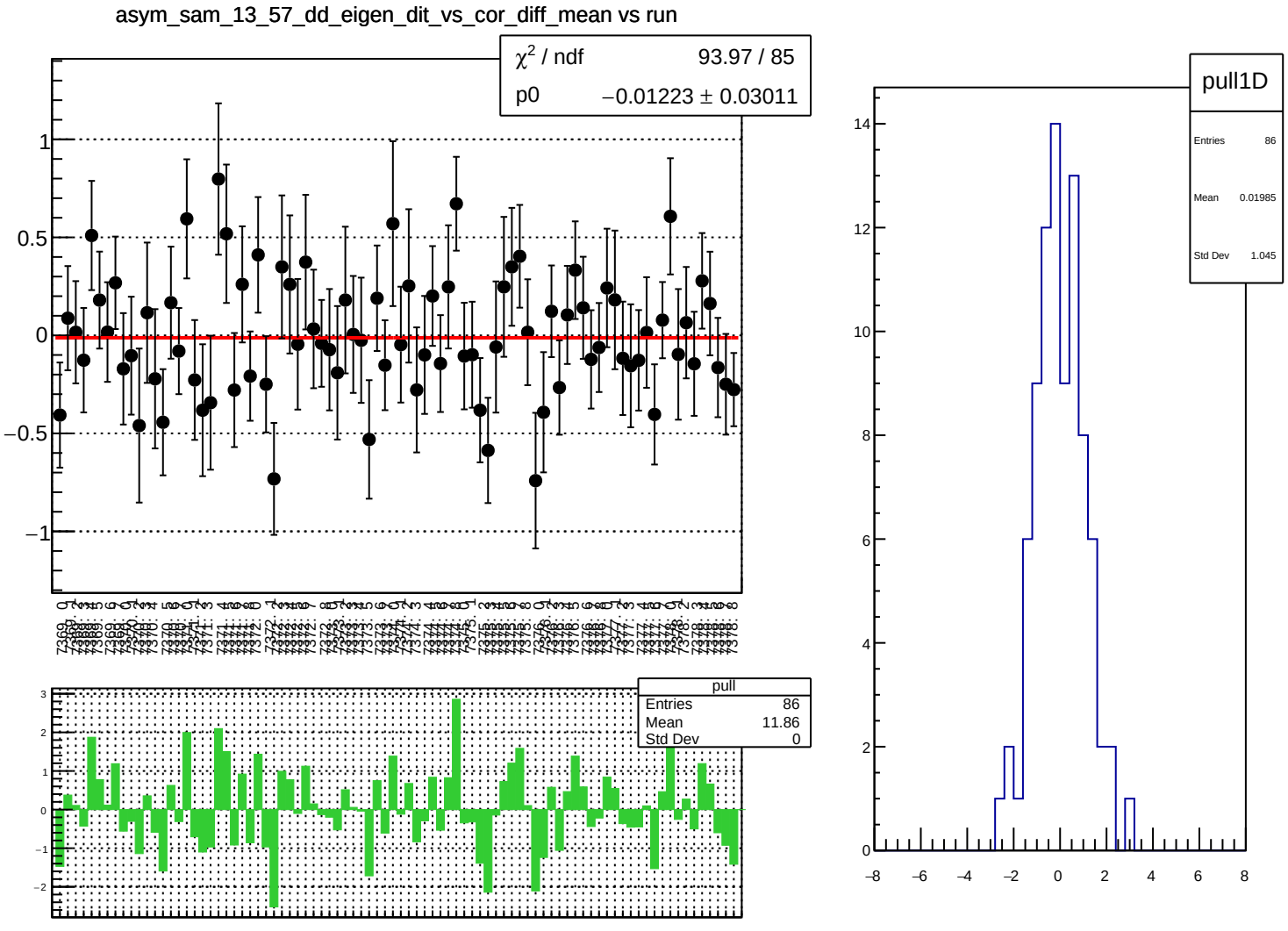

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.97 / 85
p0 −0.01223 ± 0.03011
pull
Entries 86
Mean 11.85
Std Dev 0
pull1D
Entries 86
Mean 0.01985
Std Dev 1.045

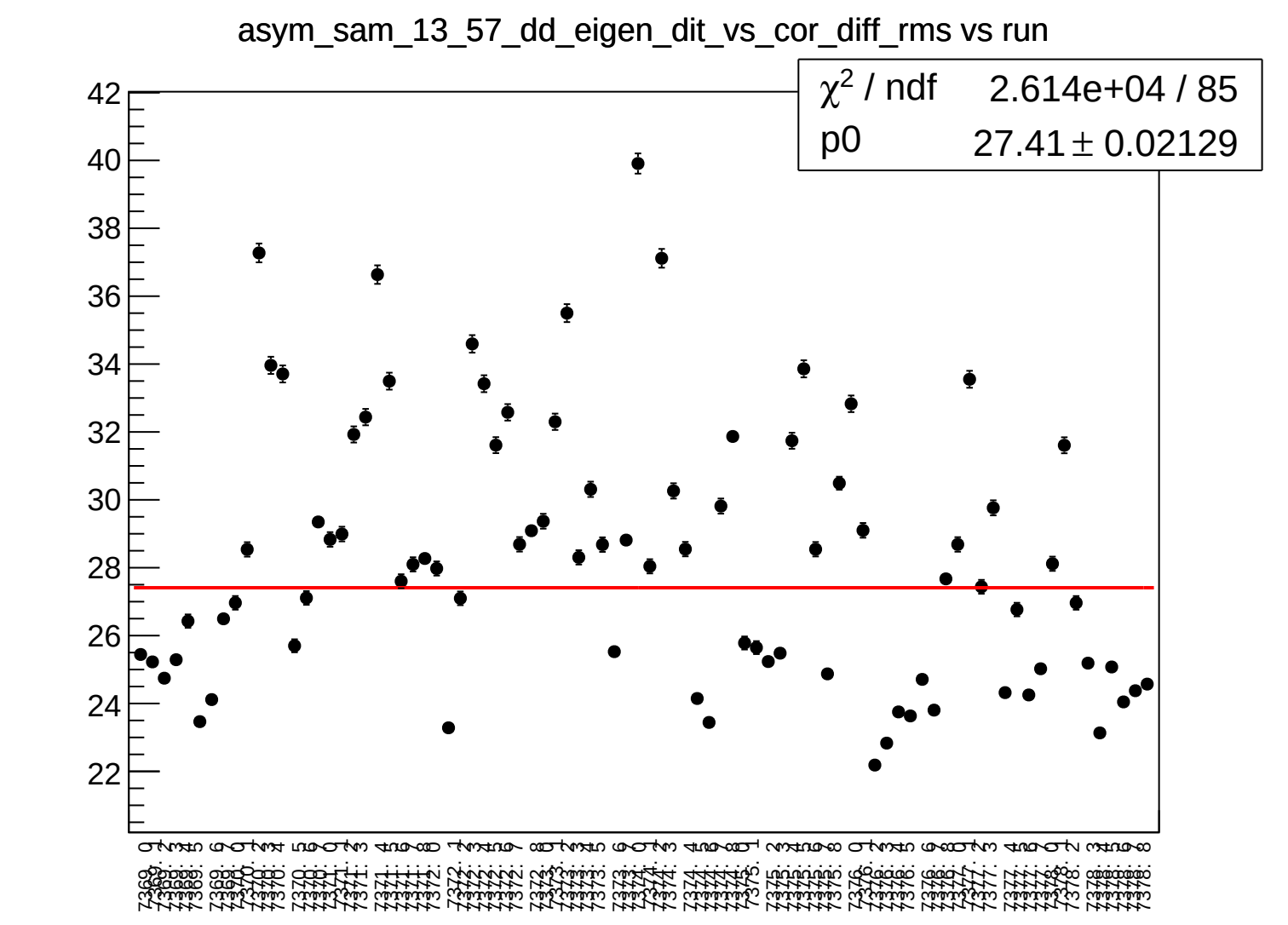

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.614e+04 / 85
p0 27.41 ± 0.02129
42
40
38
36
34
32
30
28
26
24
22

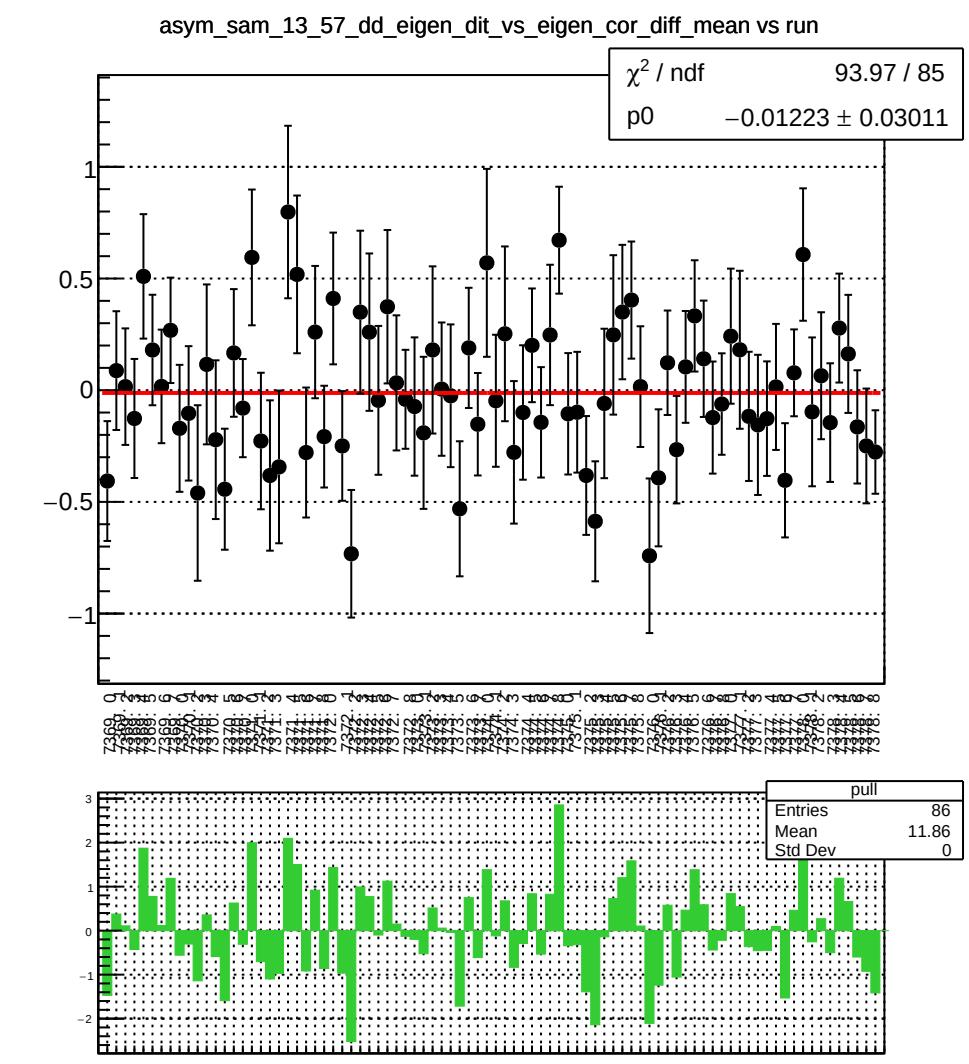

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.45 / 85
p0 7.539e−07 ± 1.989e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean 657.4
Std Dev 0
2
1
0
−1
−2
−3

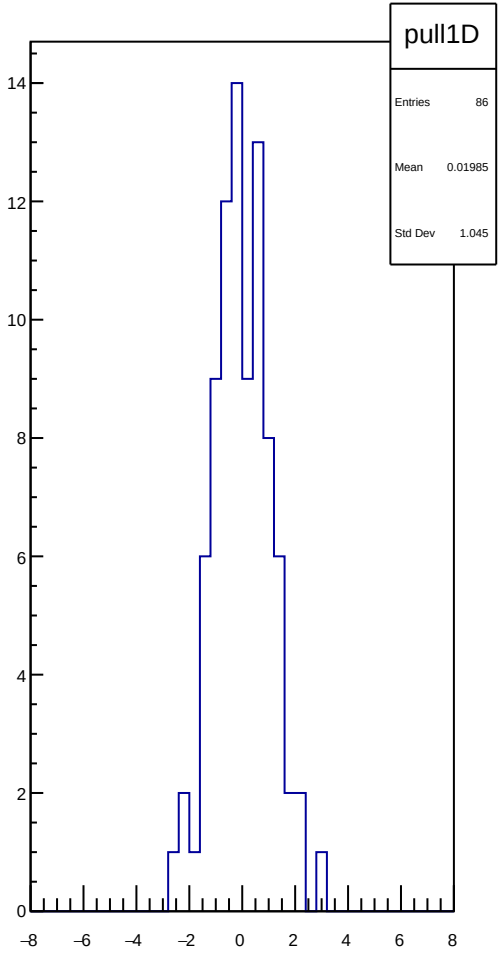

pull1D
Entries 86
Mean 0.002973
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

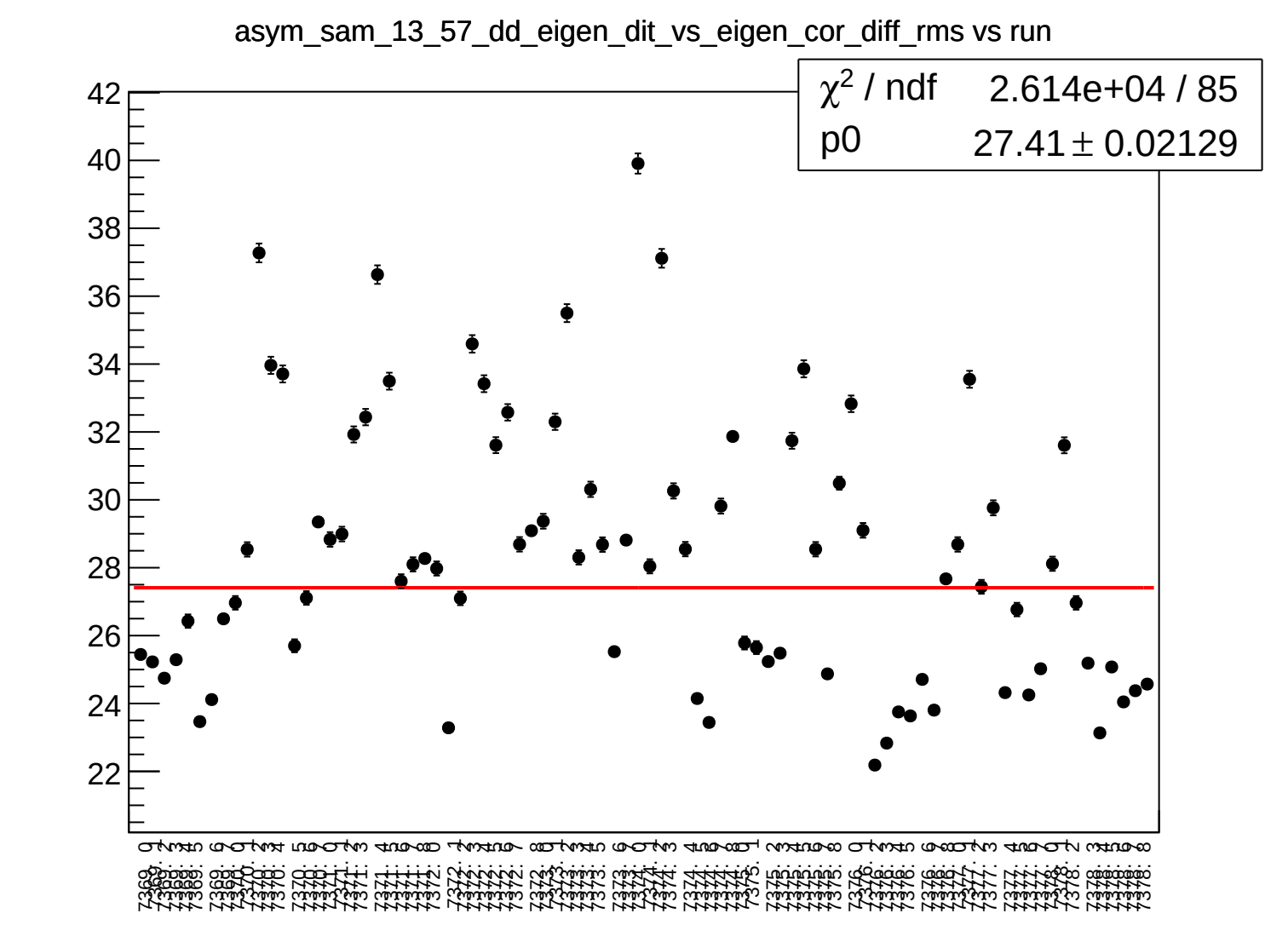

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.271e+04 / 85
p0 0.001813 ± 1.406e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

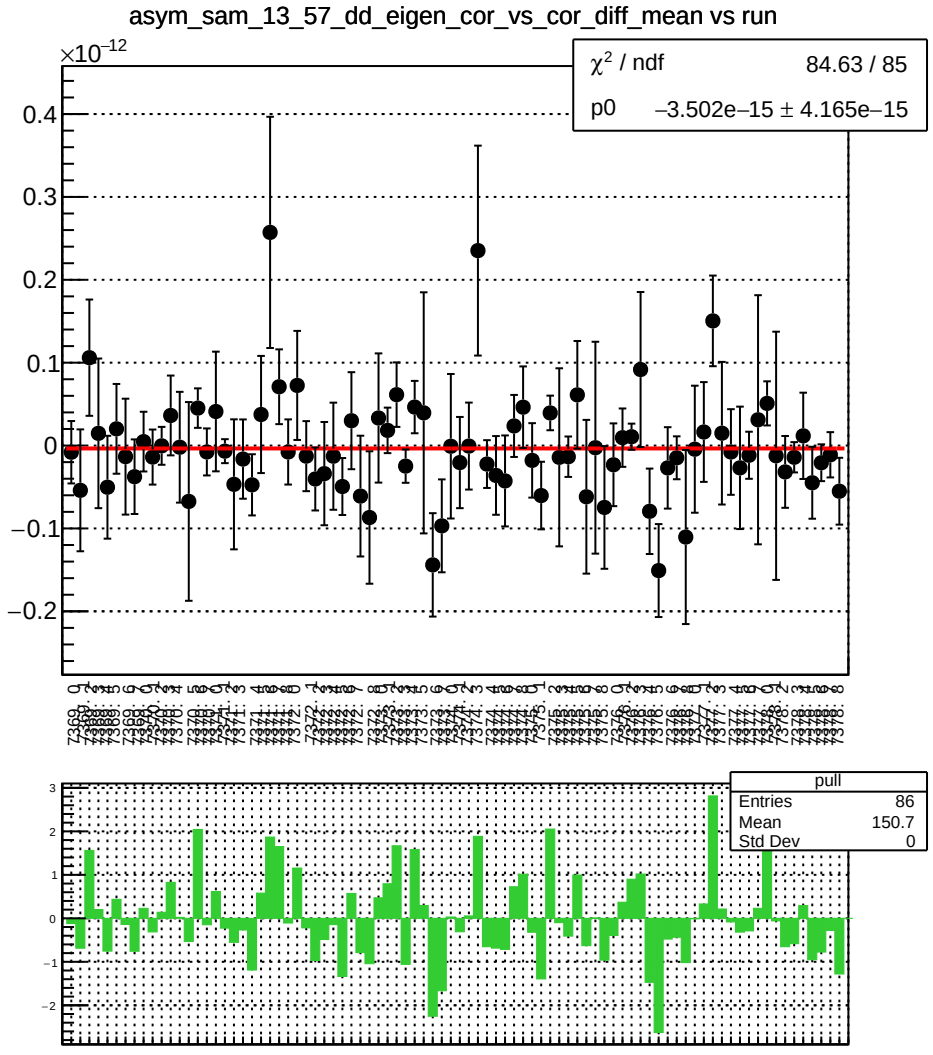

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.97 / 85
p0 −0.01223 ± 0.03011
pull
Entries 86
Mean 11.86
Std Dev 0
pull1D
Entries 86
Mean 0.01985
Std Dev 1.045

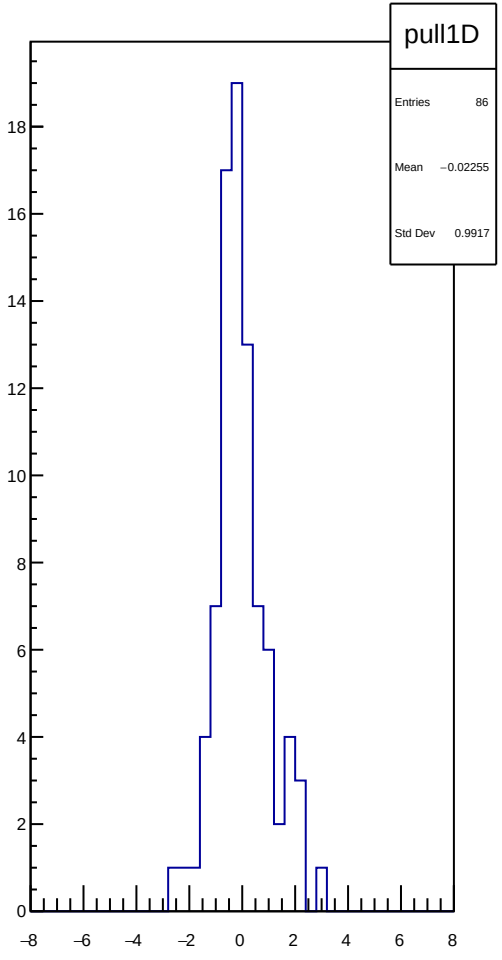

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.614e+04 / 85
p0 27.41 ± 0.02129
42
40
38
36
34
32
30
28
26
24
22

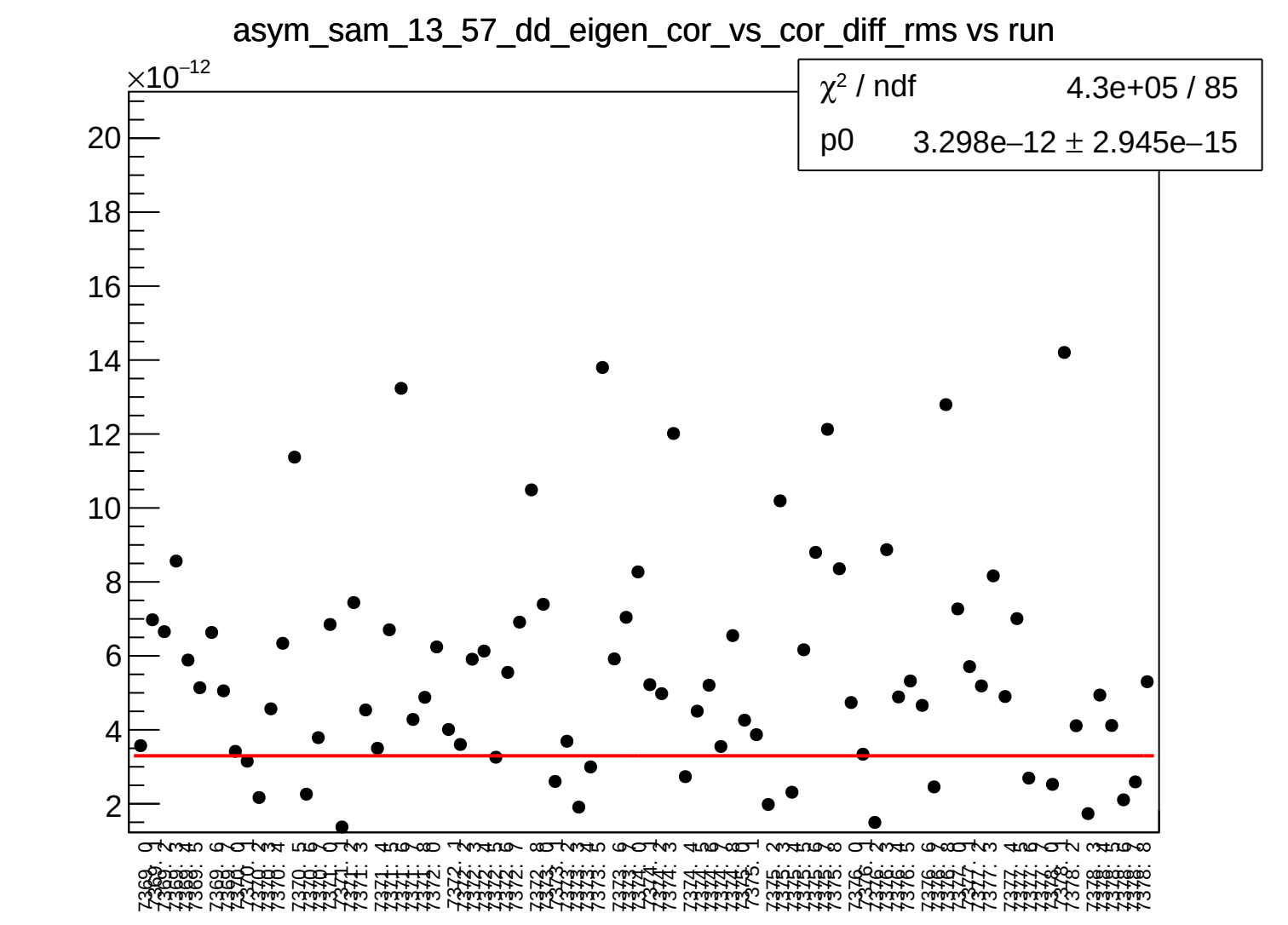

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.97 / 85
p0 −0.01223 ± 0.03011
pull
Entries 86
Mean 11.86
Std Dev 0

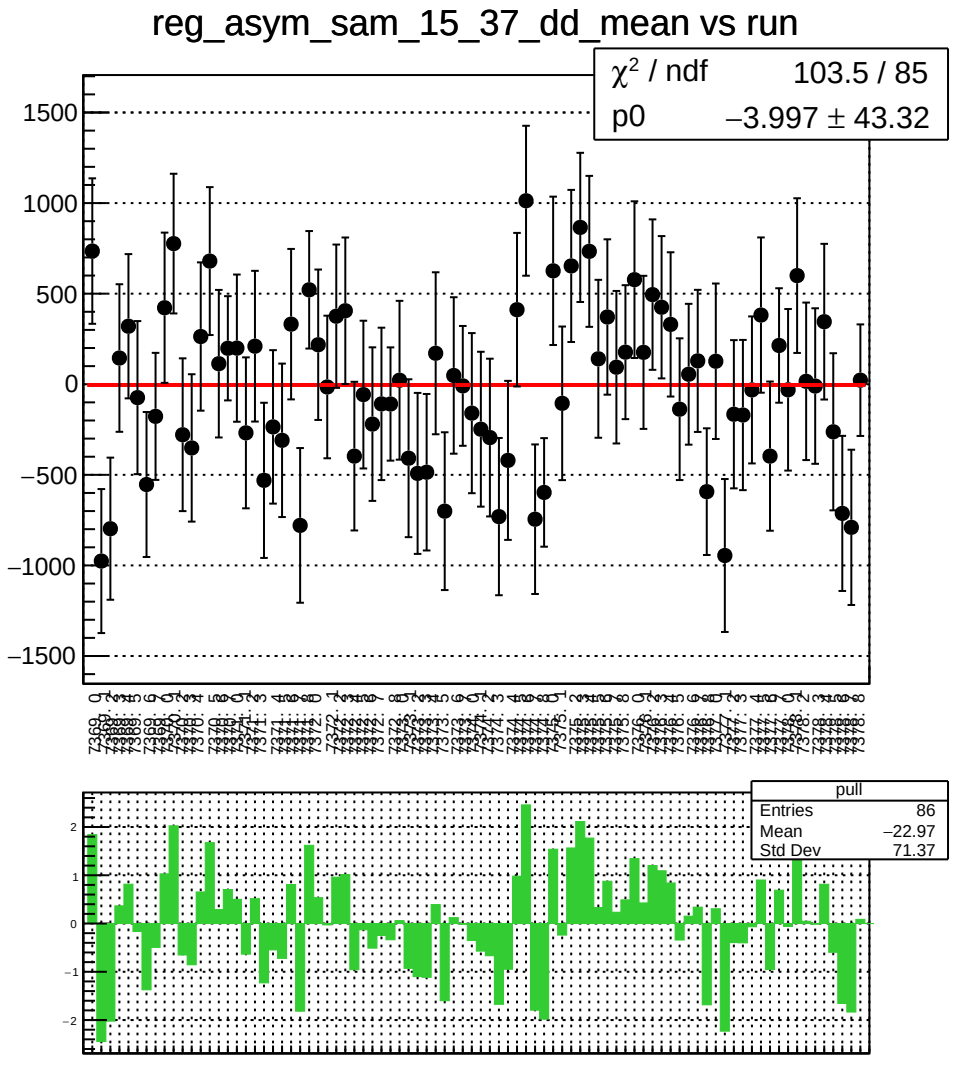

pull1D
Entries 86
Mean 0.01985
Std Dev 1.045

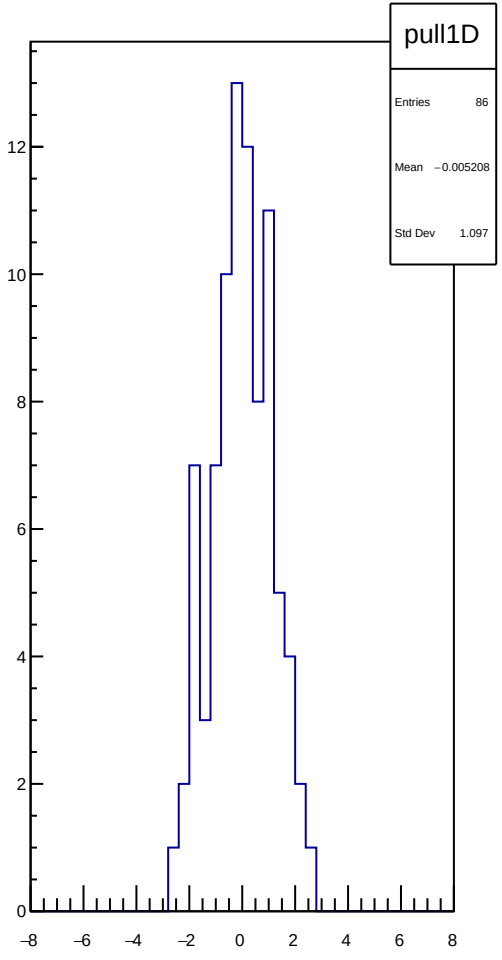

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.614e+04 / 85
p0 27.41 ± 0.02129
42
40
38
36
34
32
30
28
26
24
22

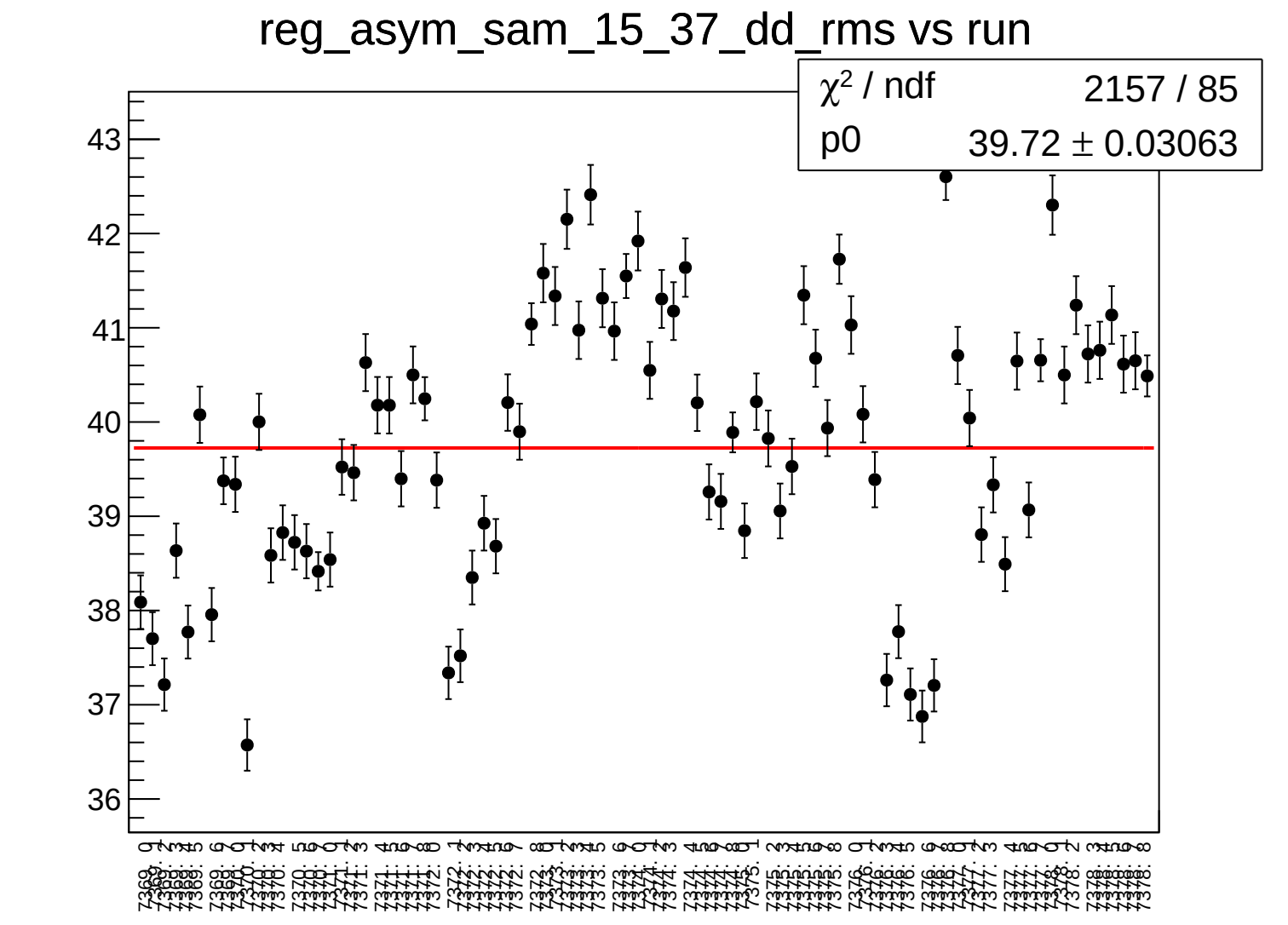

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 84.63 / 85
p0 −3.502e−15 ± 4.165e−15
pull
Entries 86
Mean 150.7
Std Dev 0

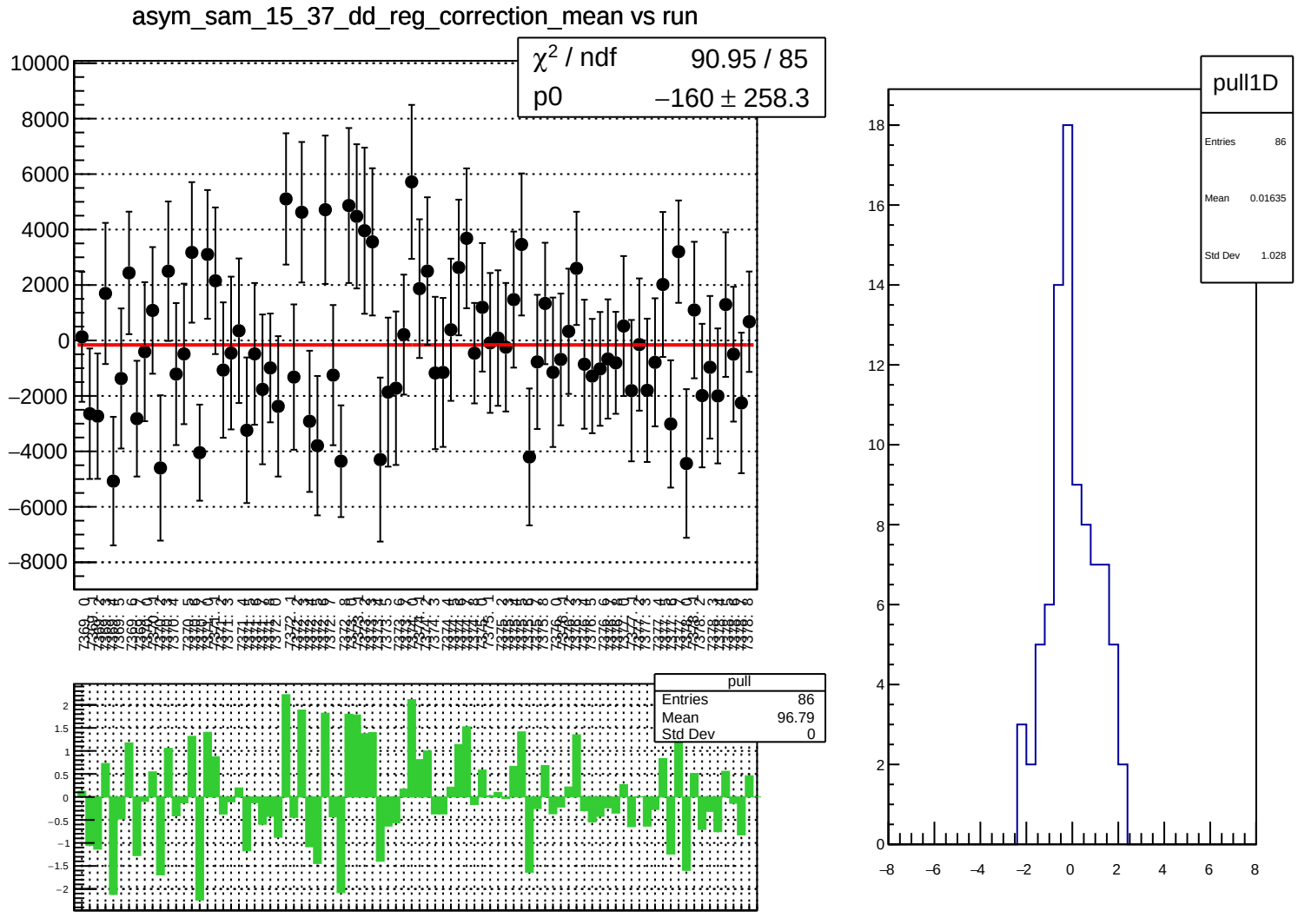

pull1D
Entries 86
Mean −0.02255
Std Dev 0.9917

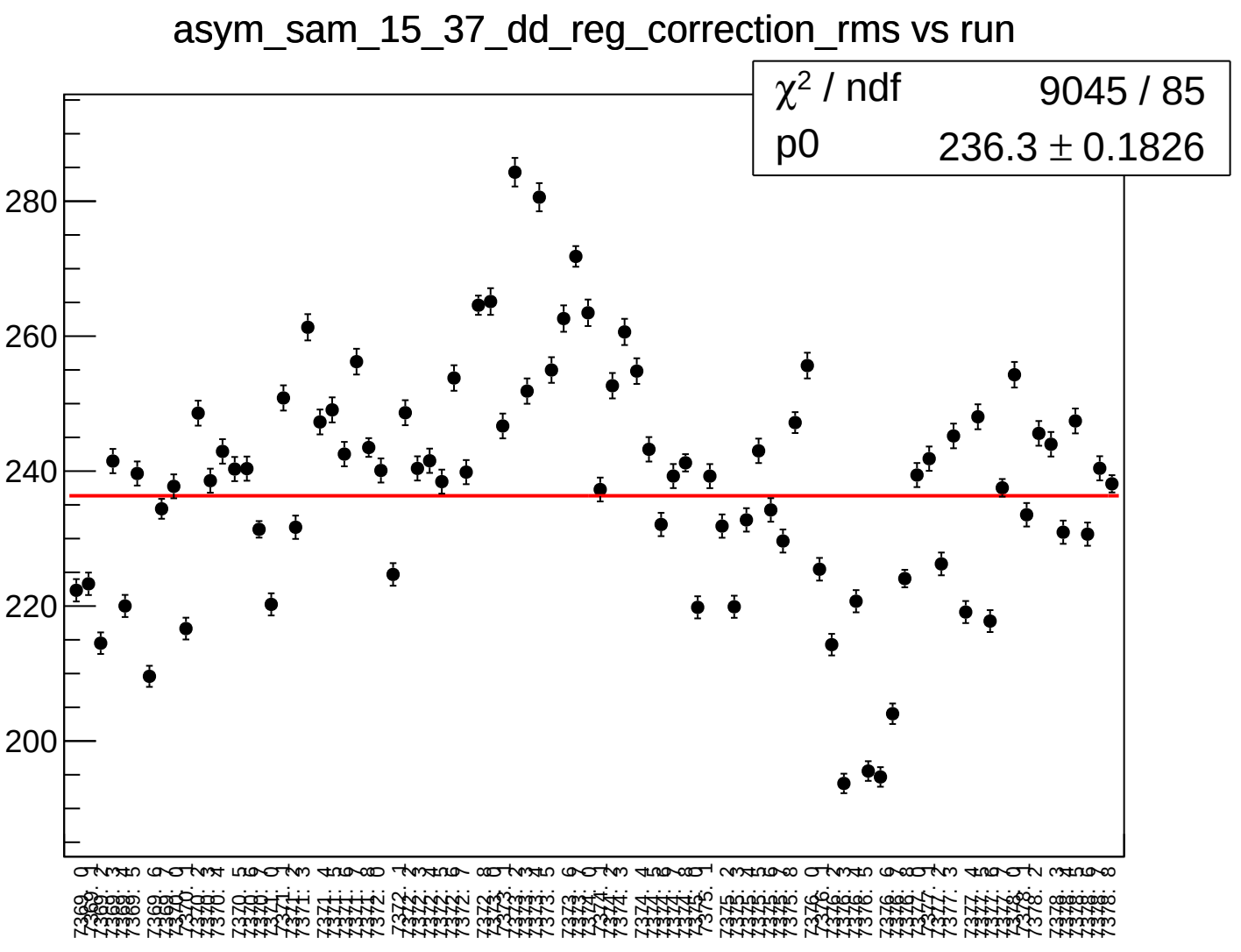

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.3e+05 / 85
p0 3.298e−12 ± 2.945e−15
20
18
16
14
12
10
8
6
4
2

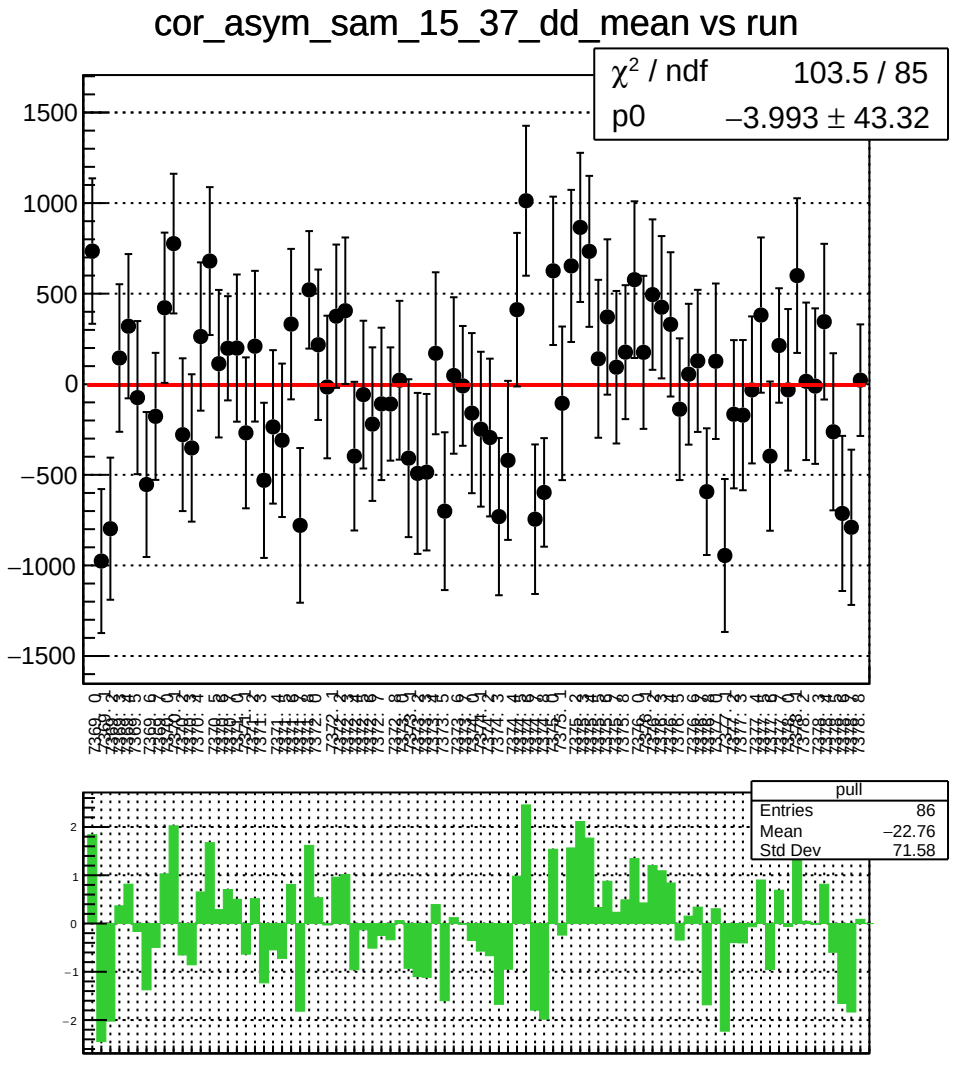

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 103.5 / 85
p0 −3.997 ± 43.32
1500
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean −22.97
Std Dev 71.37
2
1
0
−1
−2

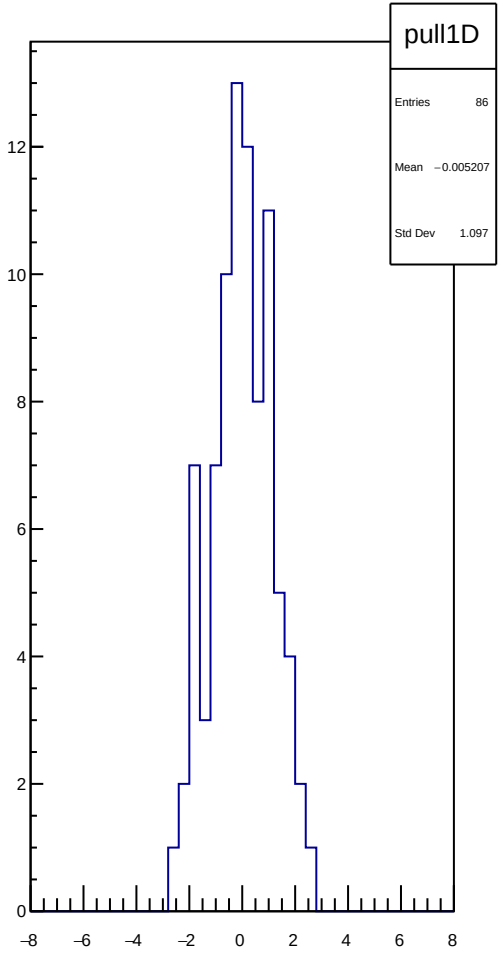

pull1D
Entries 86
Mean −0.005208
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

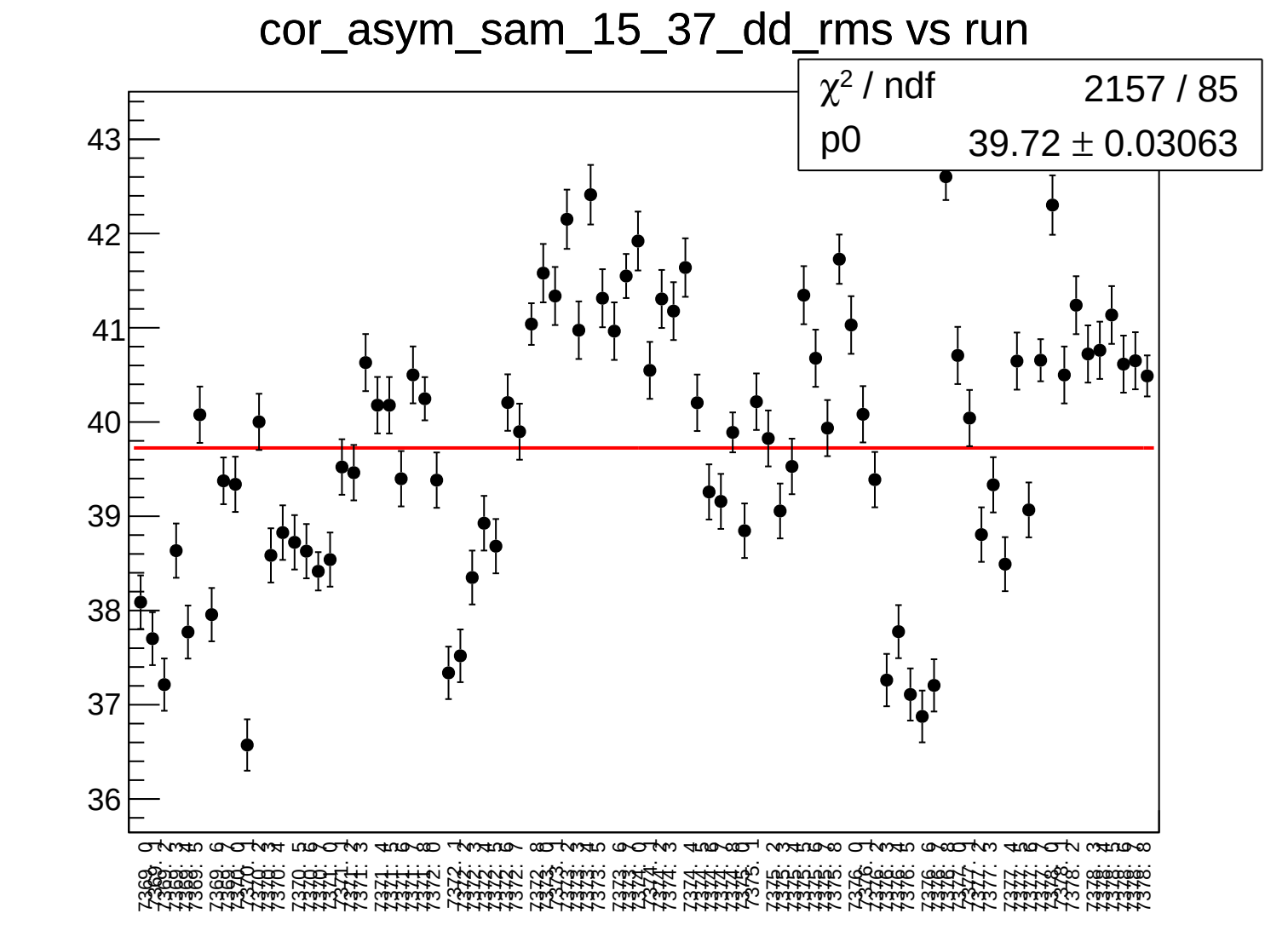

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2157 / 85
p0 39.72 ± 0.03063
43
42
41
40
39
38
37
36

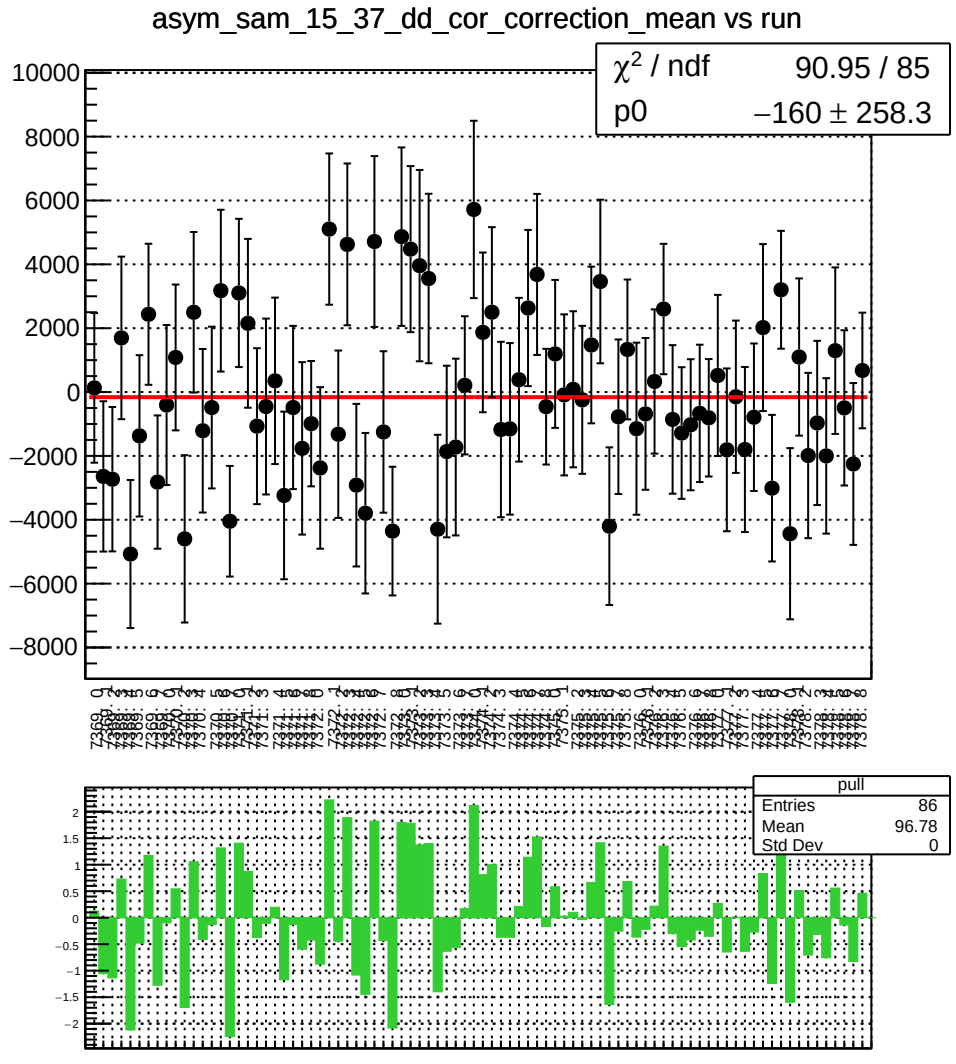

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 90.95 / 85
p0 −160 ± 258.3
pull
Entries 86
Mean 96.79
Std Dev 0
pull1D
Entries 86
Mean 0.01635
Std Dev 1.028

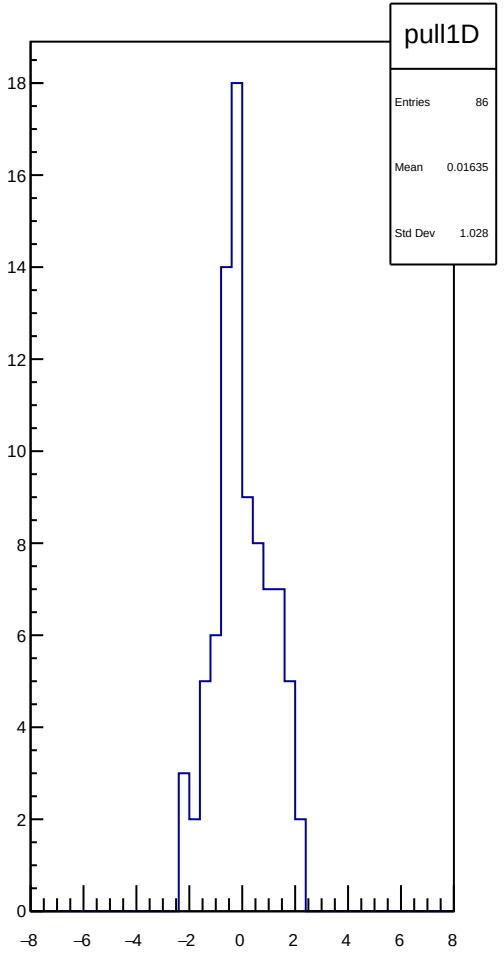

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 9045 / 85
p0 236.3 ± 0.1826
280
260
240
220
200

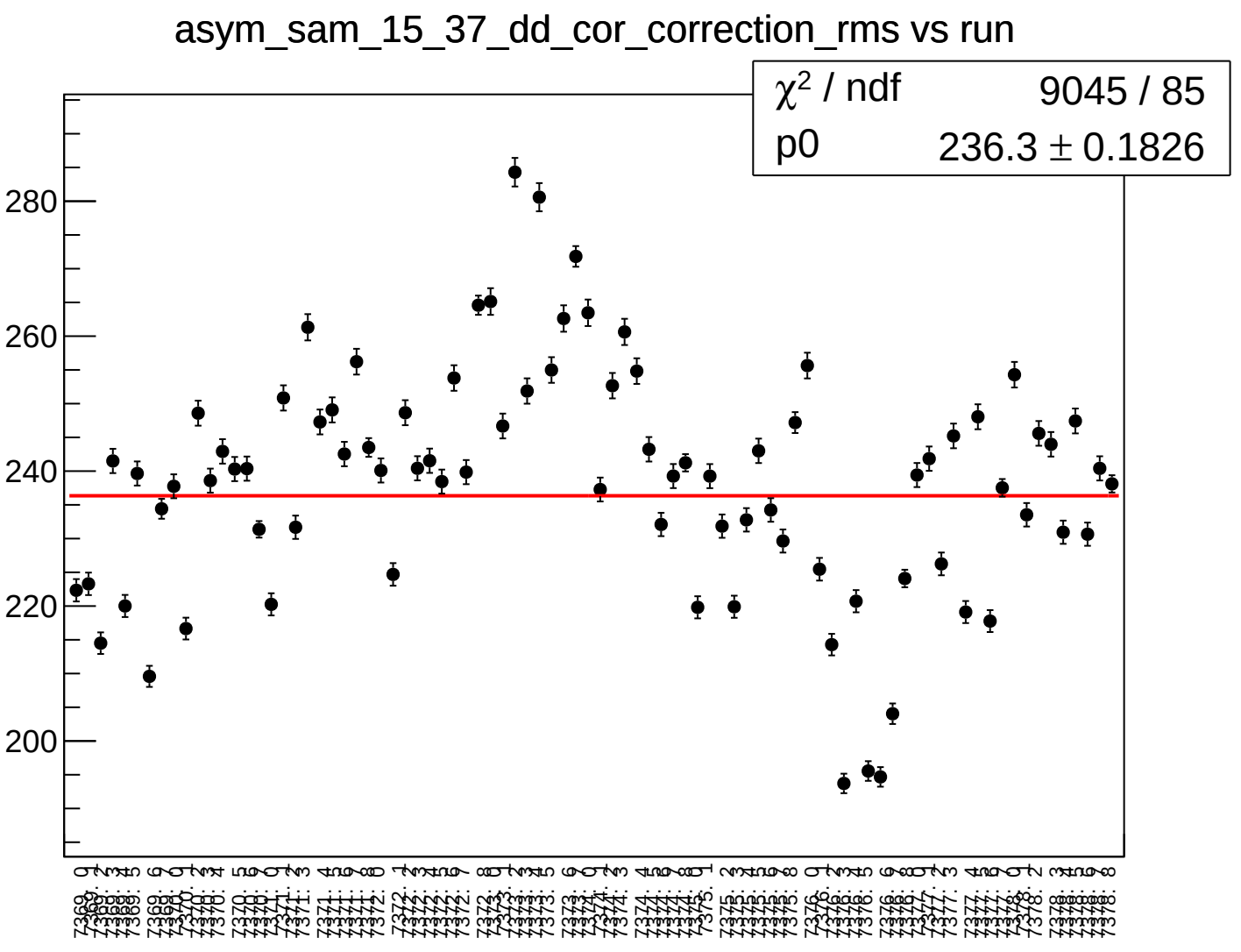

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 103.5 / 85
p0 −3.993 ± 43.32
1500
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean −22.76
Std Dev 71.58
2
1
0
−1
−2

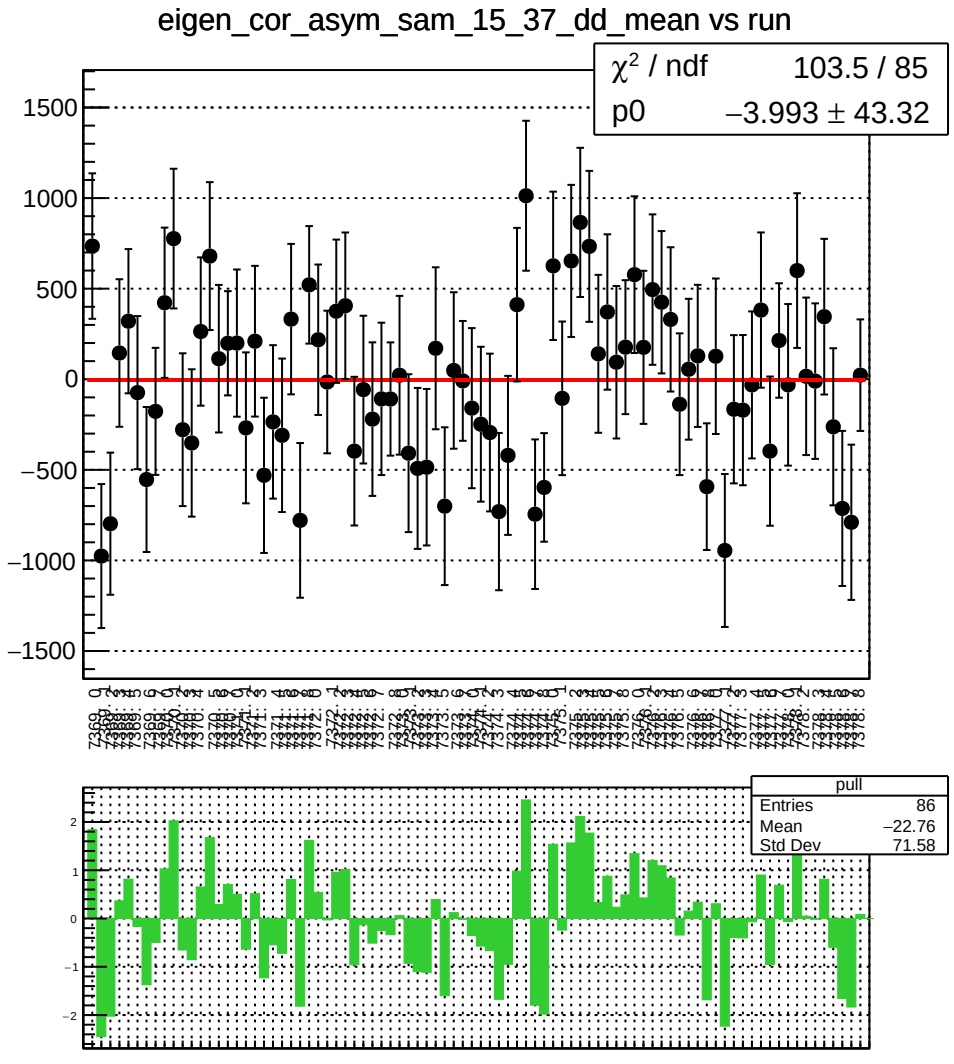

pull1D
Entries 86
Mean −0.005207
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

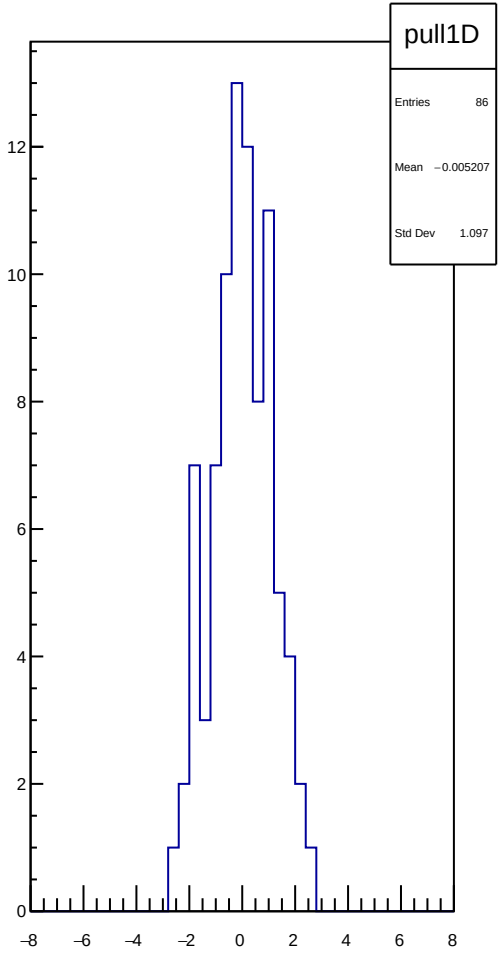

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2157 / 85
p0 39.72 ± 0.03063
43
42
41
40
39
38
37
36

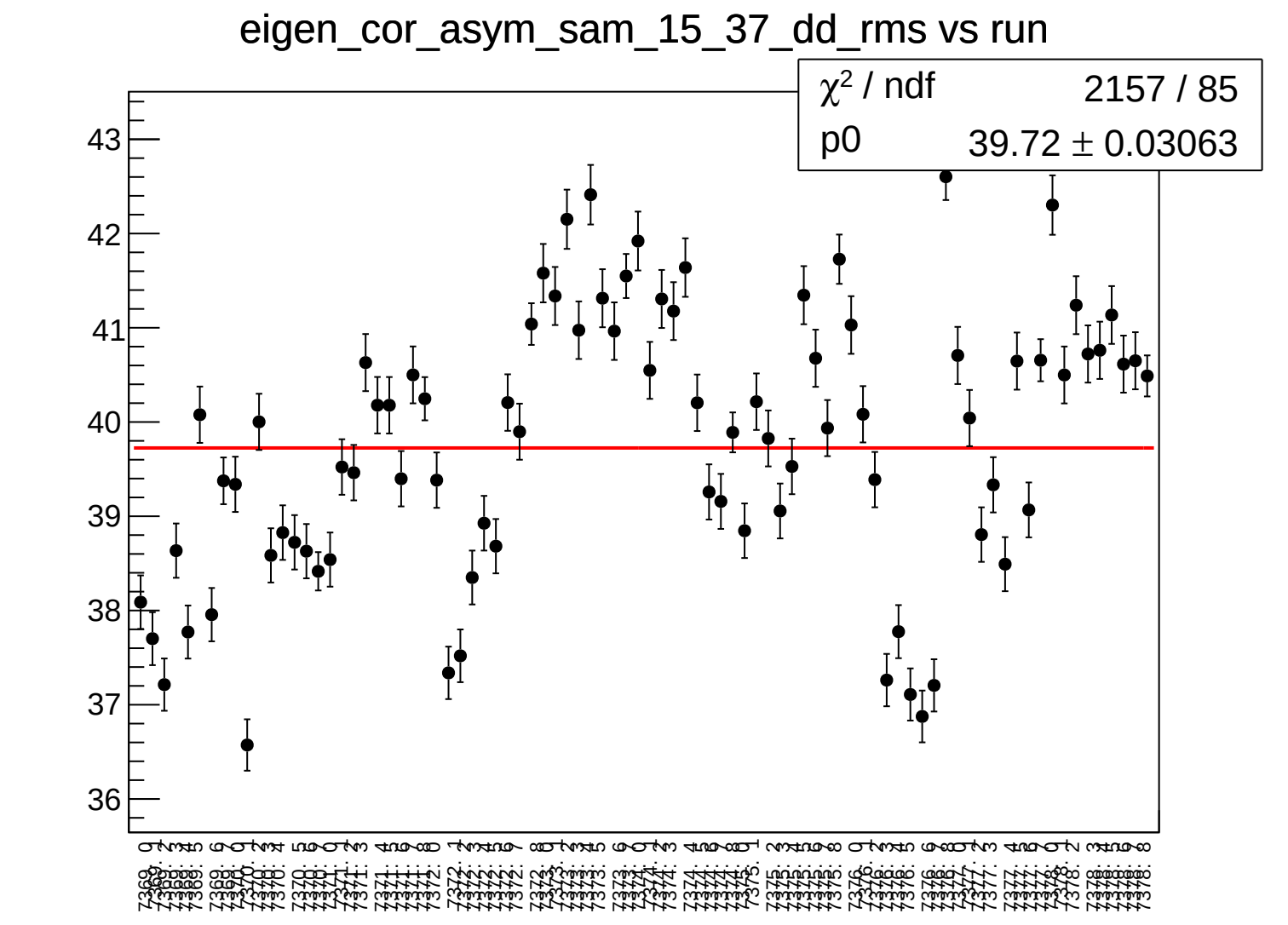

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 90.95 / 85
p0 −160 ± 258.3
pull
Entries 86
Mean 96.78
Std Dev 0

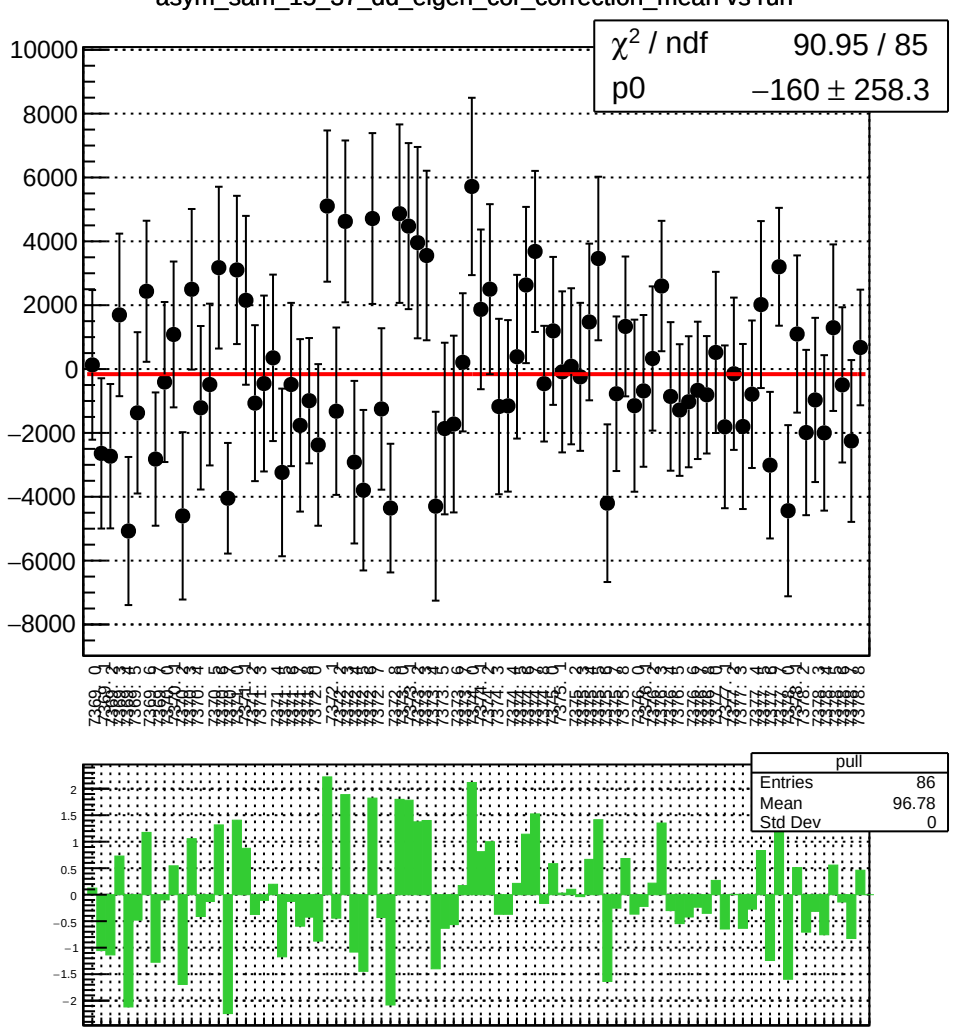

pull1D
Entries 86
Mean 0.01635
Std Dev 1.028

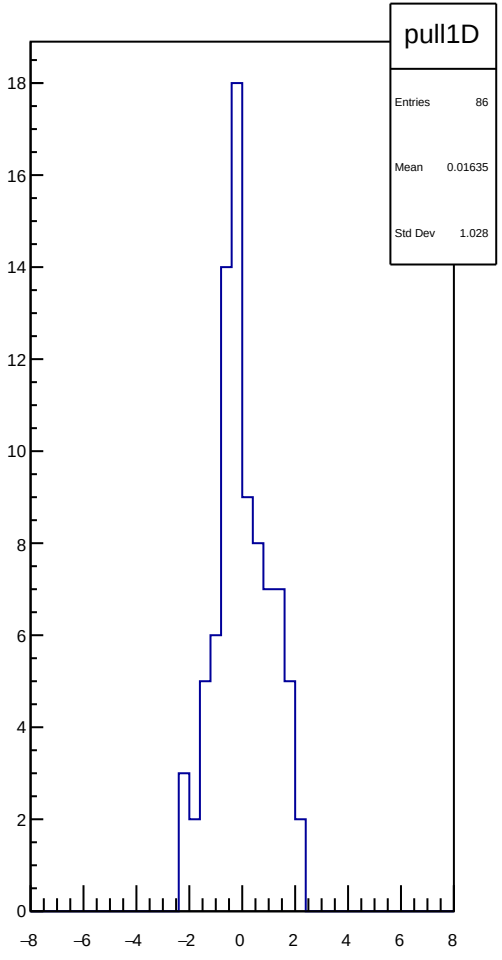

asym_sam_15_37_dd_cor_correction_rms vs run
χ^2 / ndf 9045 / 85
p0 236.3 ± 0.1826
280
260
240
220
200

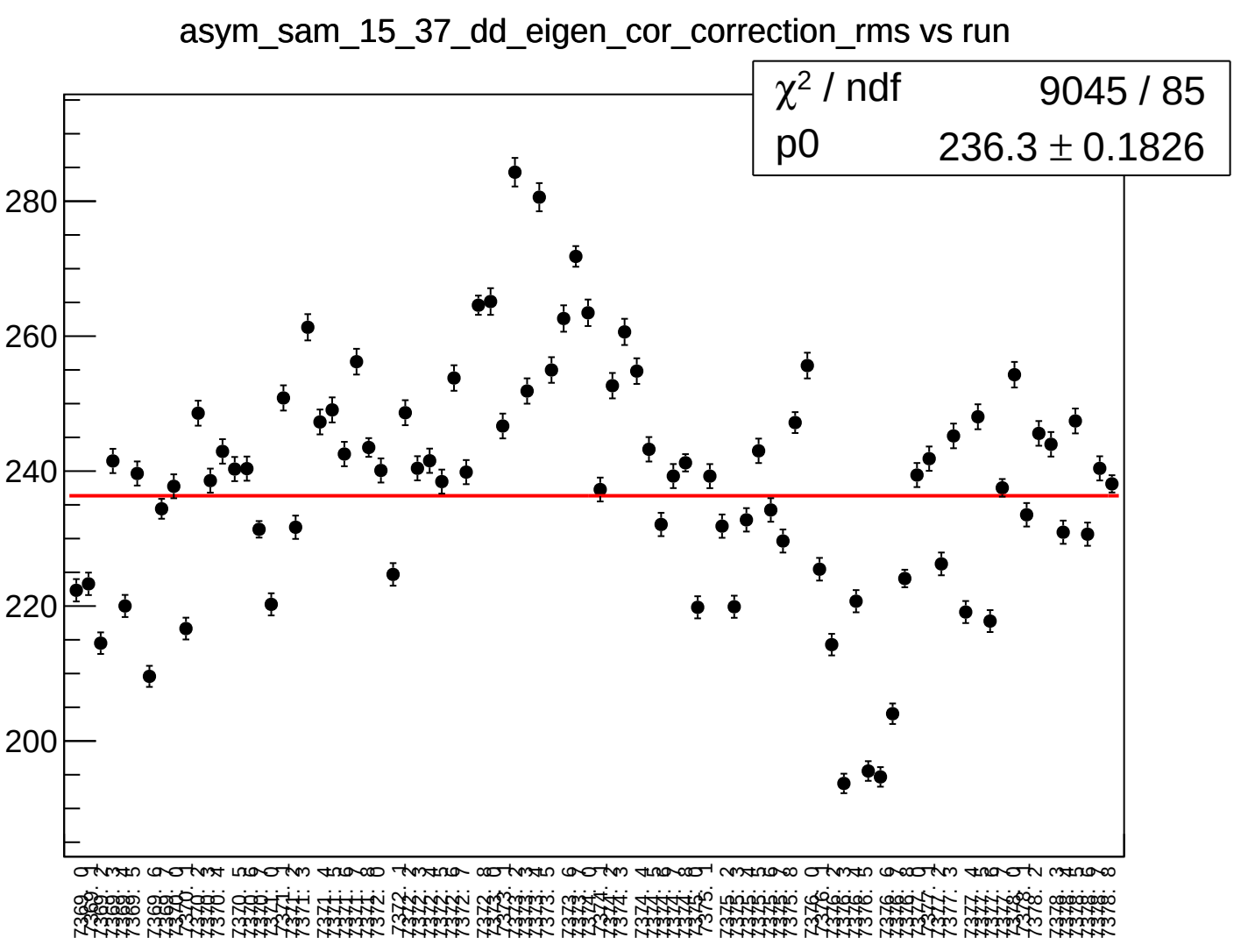

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 103.5 / 85
p0 −3.993 ± 43.32
pull
Entries 86
Mean −22.76
Std Dev 71.58

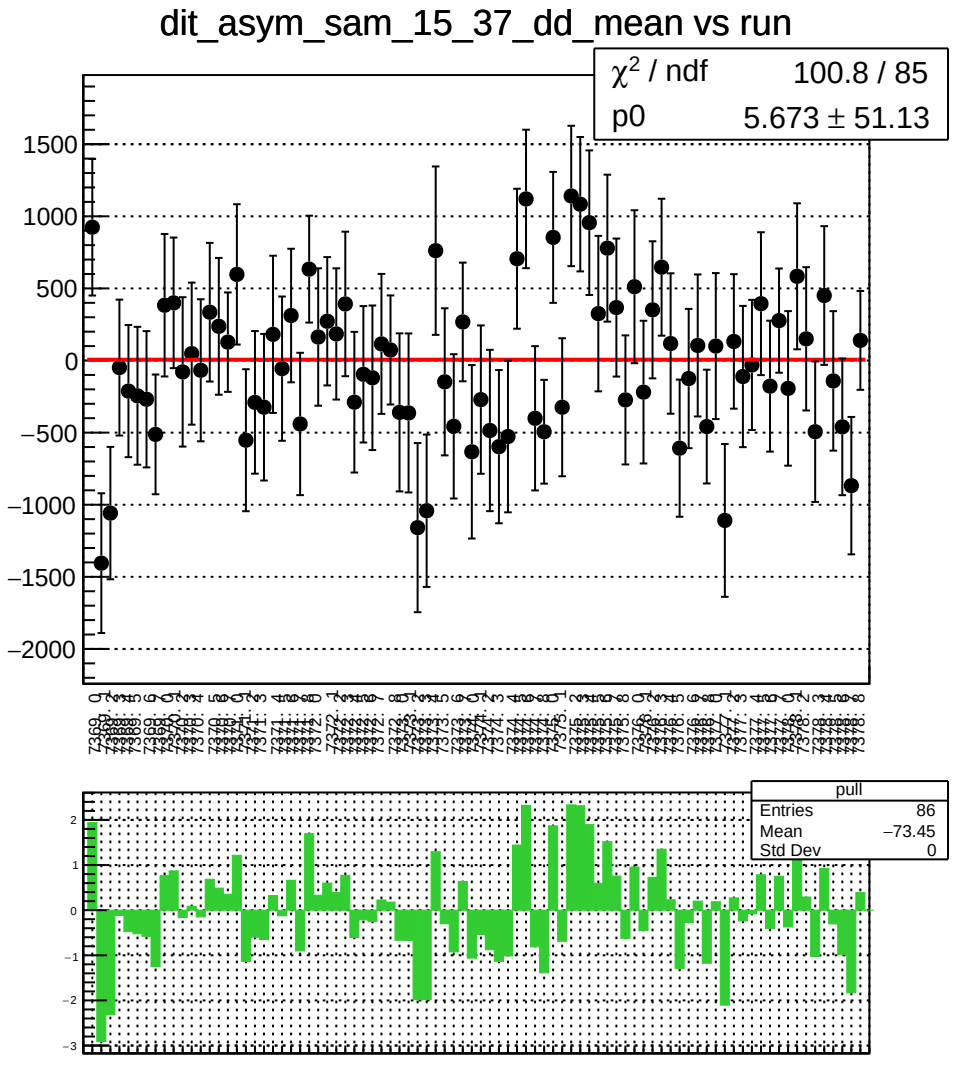

pull1D
Entries 86
Mean −0.005207
Std Dev 1.097

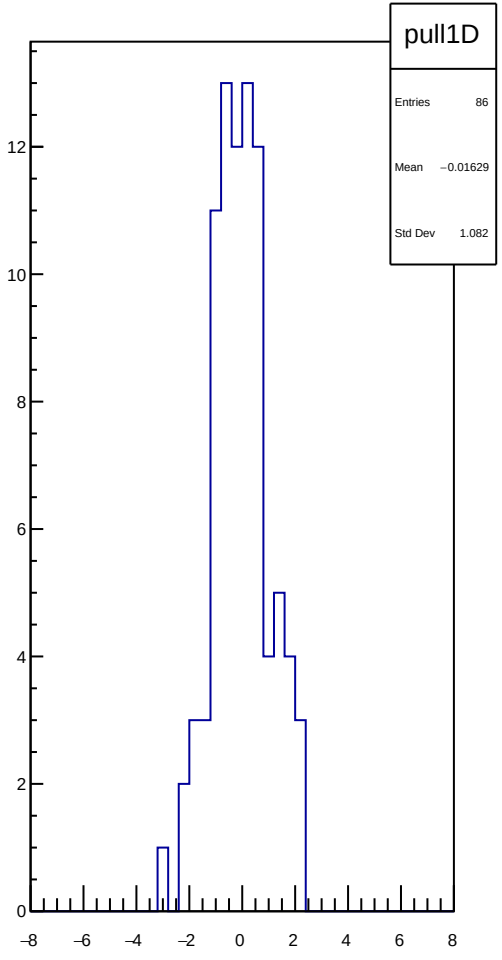

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2157 / 85
p0 39.72 ± 0.03063
43
42
41
40
39
38
37
36

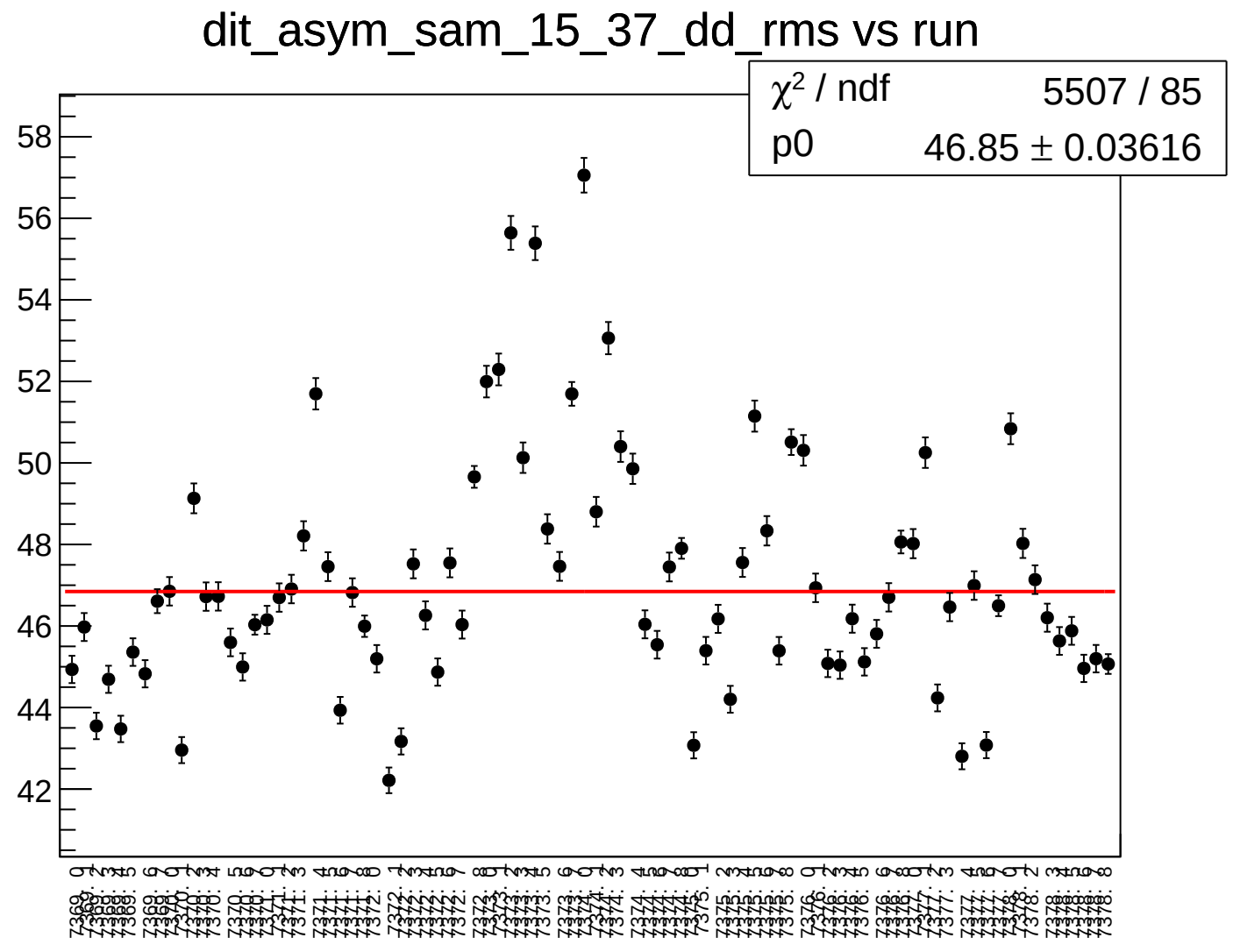

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.95 / 85
p0 −160 ± 258.3
pull
Entries 86
Mean 96.78
Std Dev 0

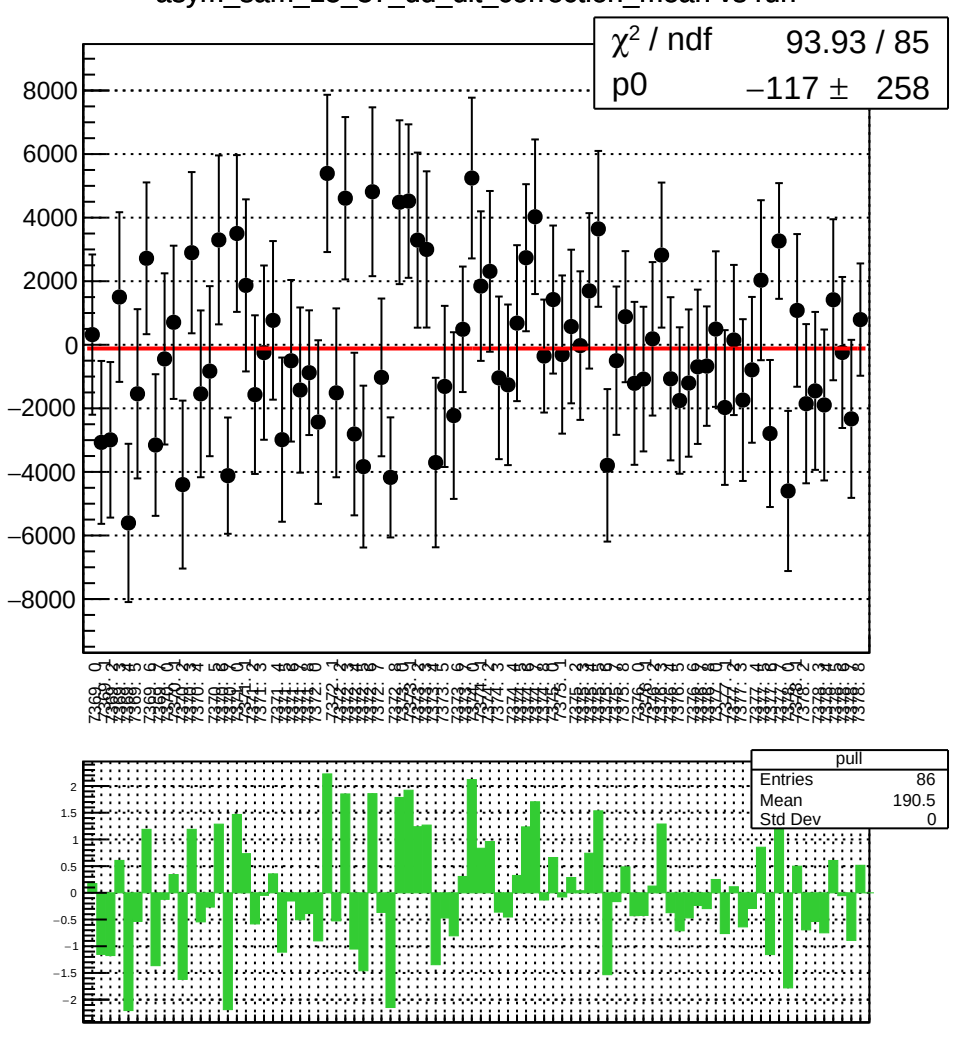

pull1D
Entries 86
Mean 0.01635
Std Dev 1.028

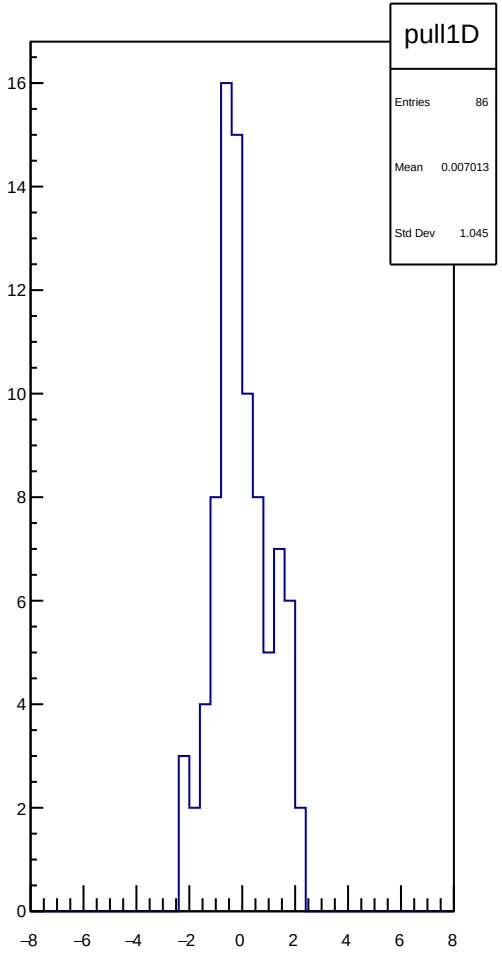

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 9045 / 85
p0 236.3 ± 0.1826
280
260
240
220
200

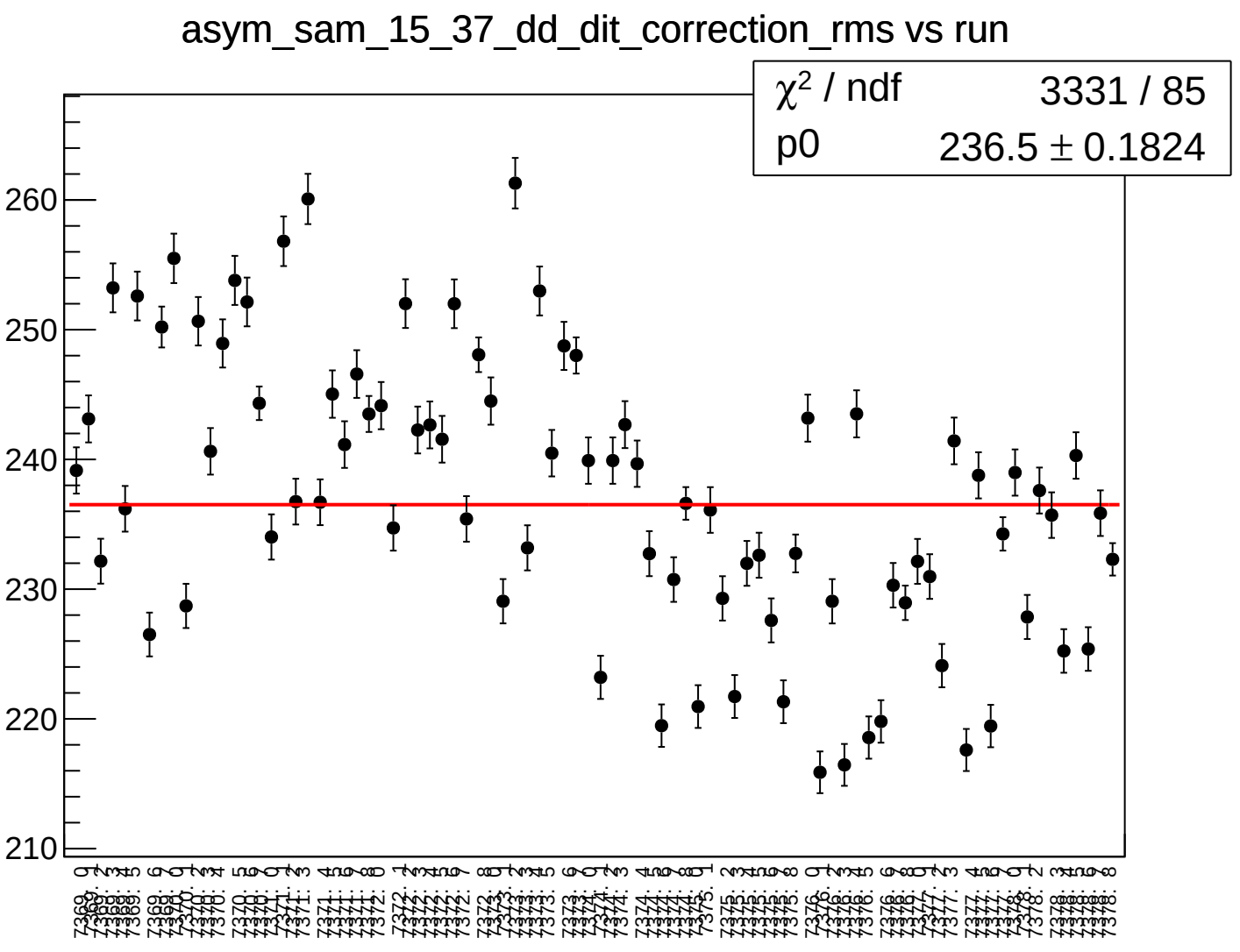

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 100.8 / 85
p0 5.673 ± 51.13
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 86
Mean −73.45
Std Dev 0
2
1
0
−1
−2
−3

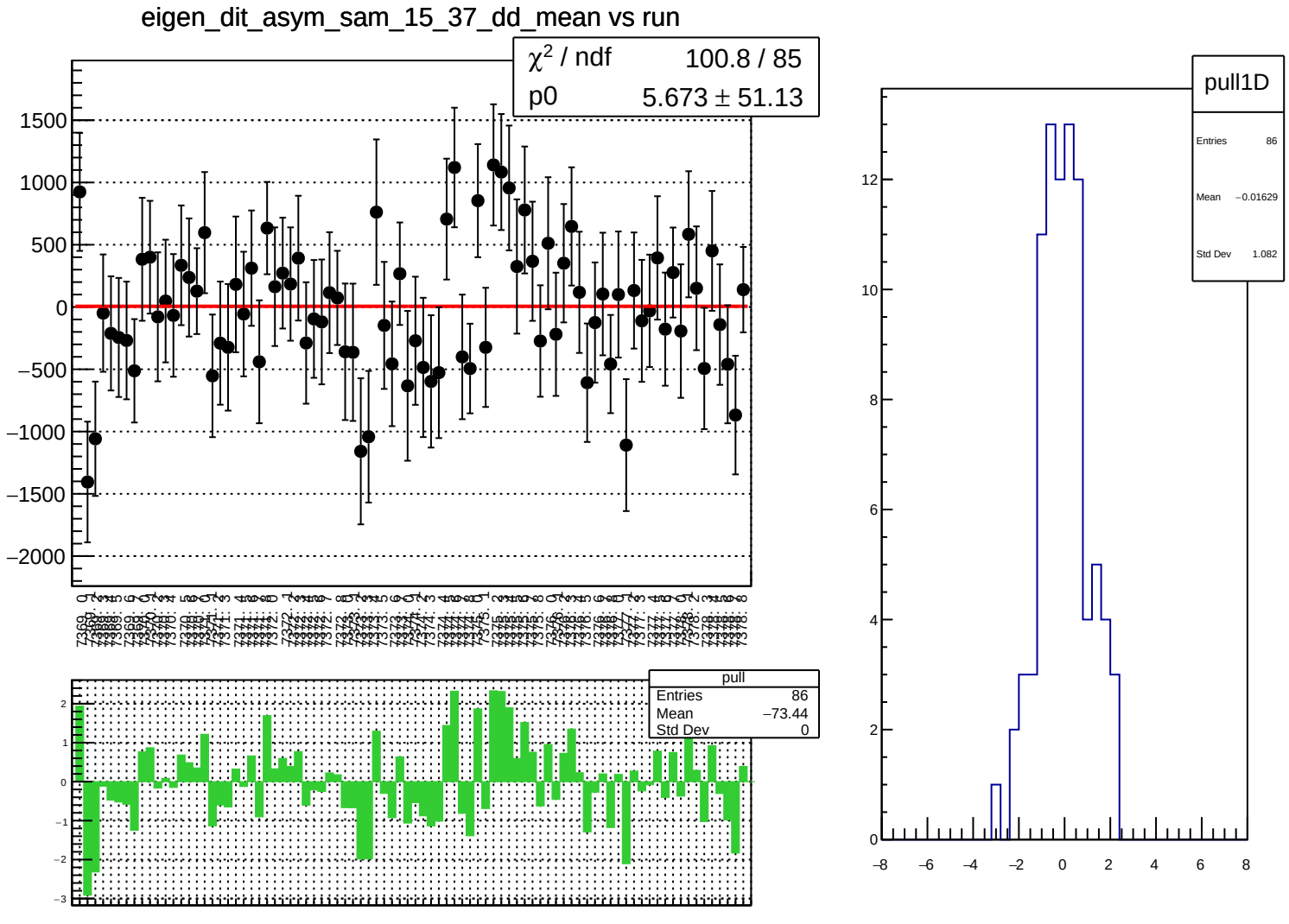

pull1D
Entries 86
Mean −0.01629
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

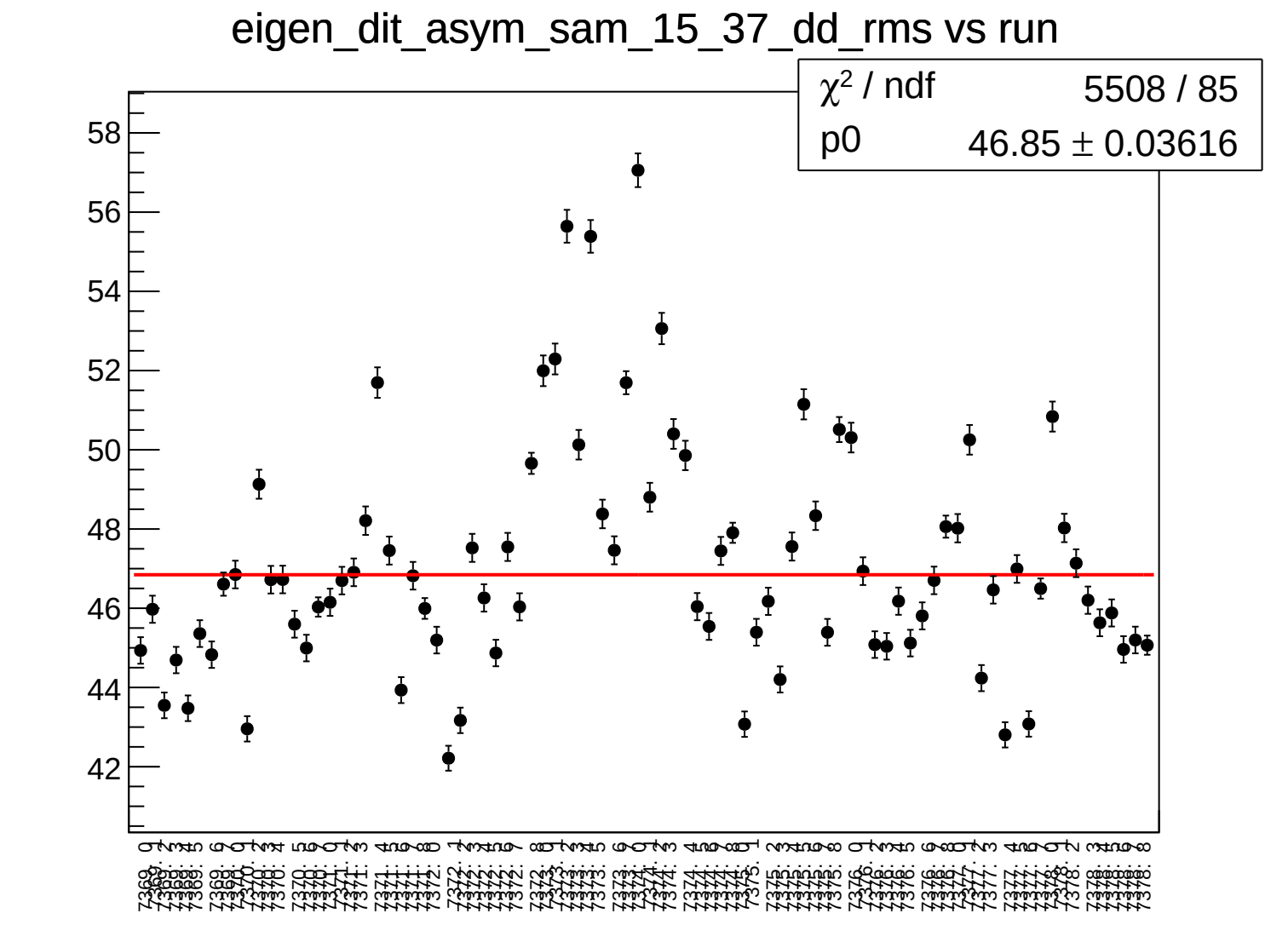

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 5507 / 85
p0 46.85 ± 0.03616
58
56
54
52
50
48
46
44
42

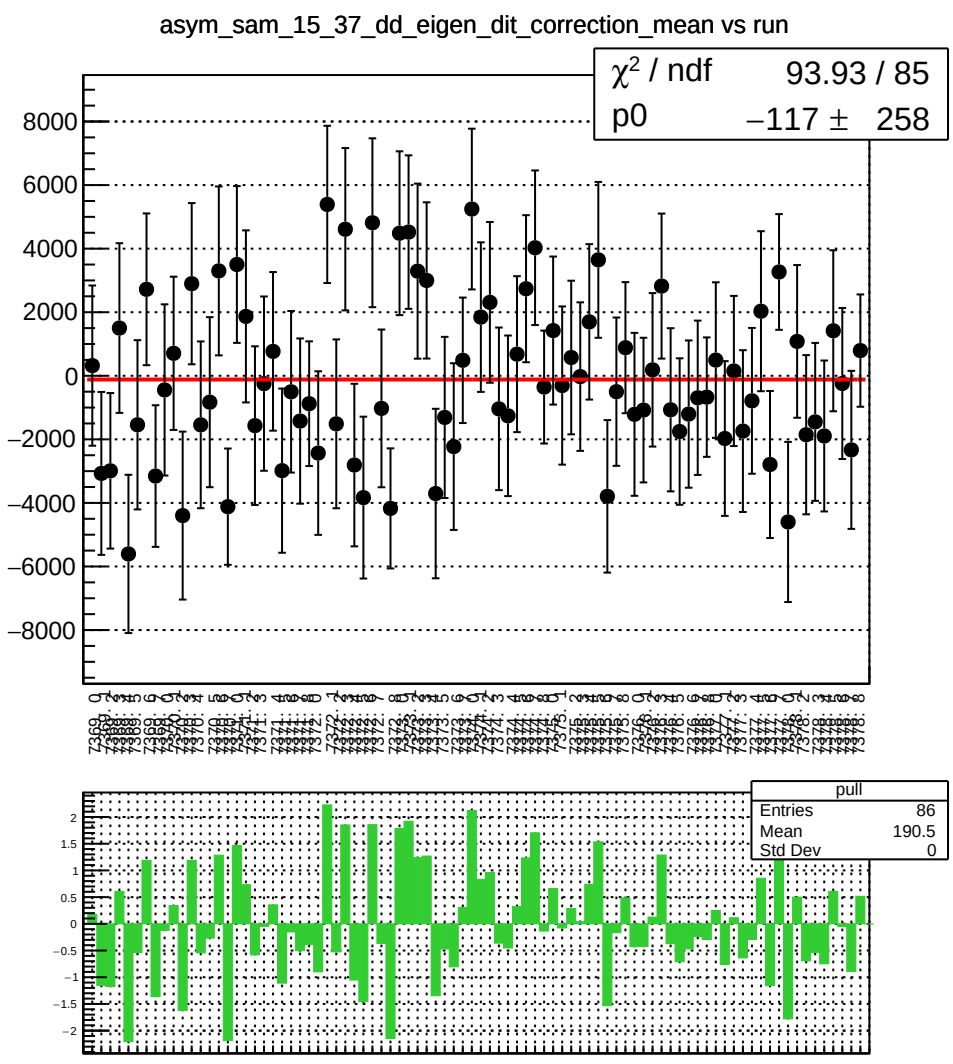

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 93.93 / 85
p0 −117 ± 258
pull
Entries 86
Mean 190.5
Std Dev 0

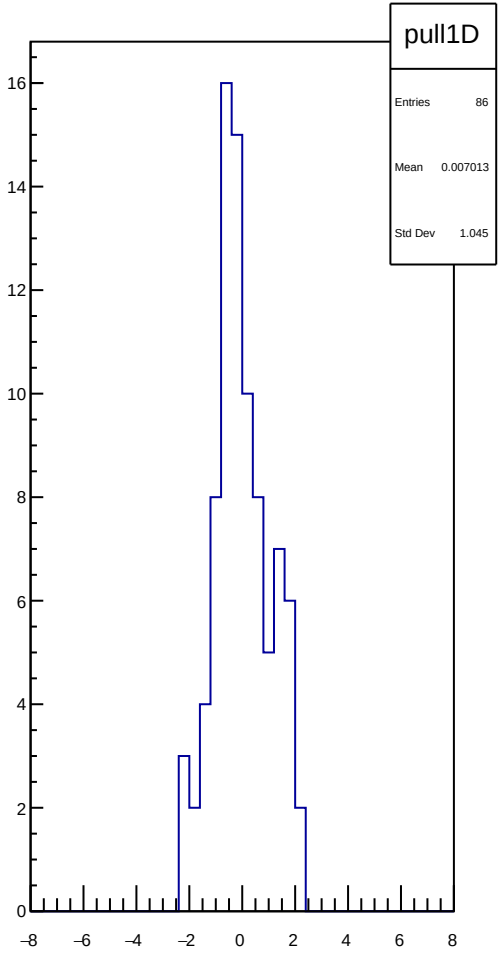

pull1D
Entries 86
Mean 0.007013
Std Dev 1.045

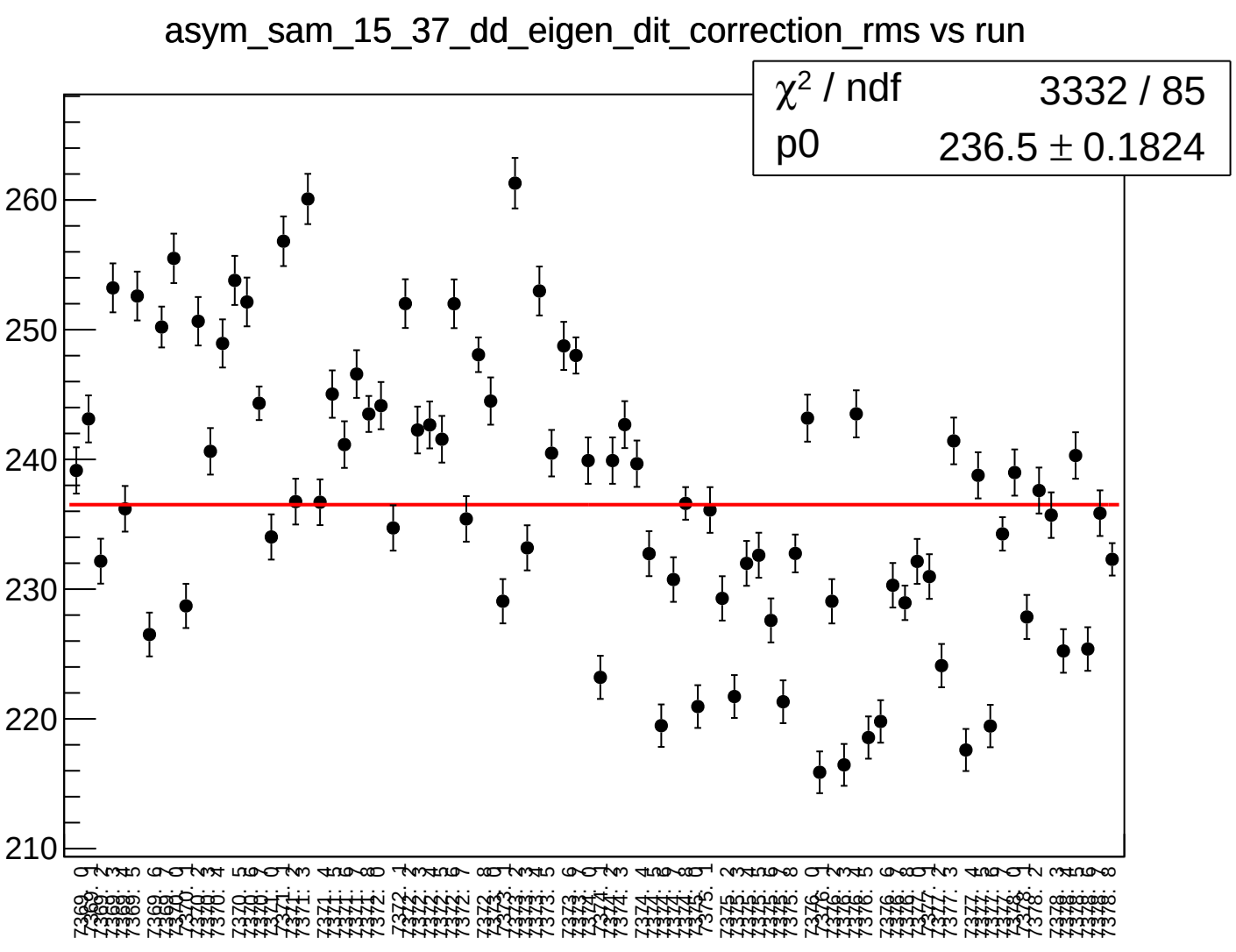

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 3331 / 85
p0 236.5 ± 0.1824
260
250
240
230
220
210

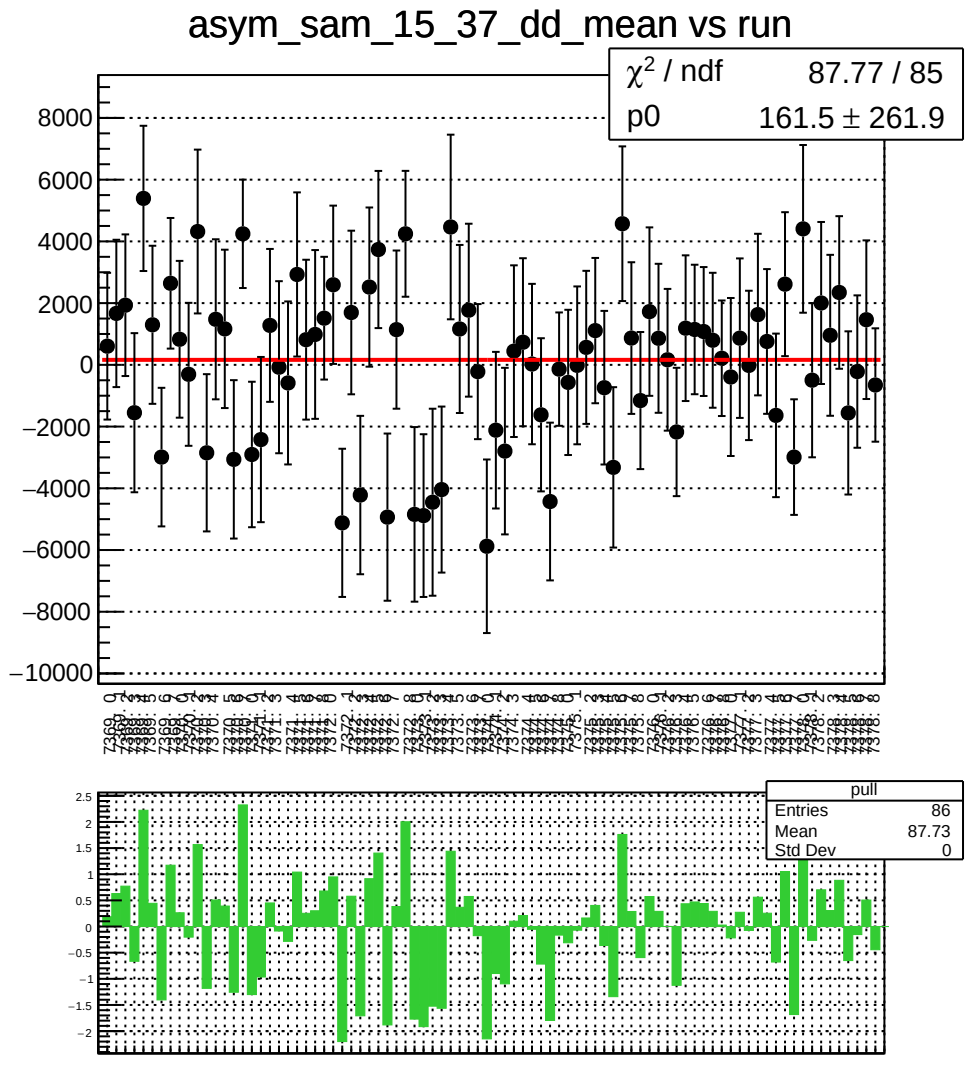

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 100.8 / 85
p0 5.673 ± 51.13
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 86
Mean −73.44
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01629
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

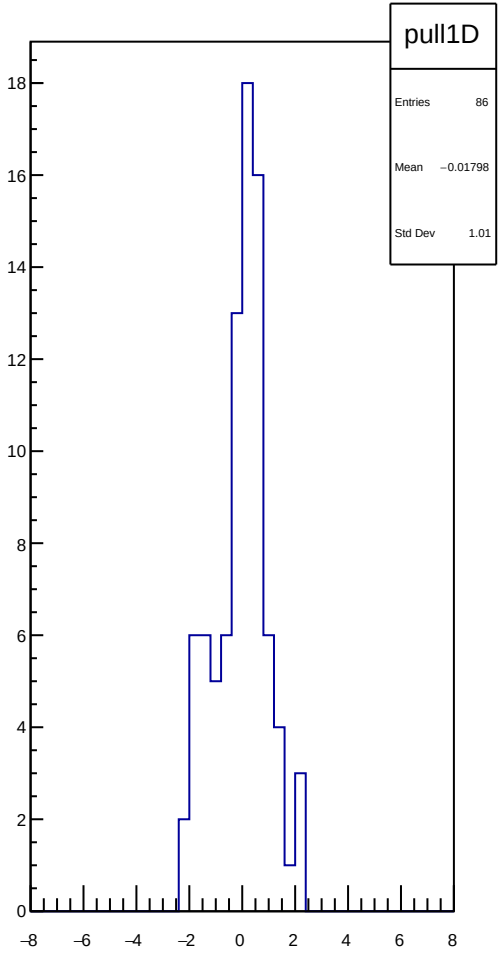

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 5508 / 85
p0 46.85 ± 0.03616
58
56
54
52
50
48
46
44
42

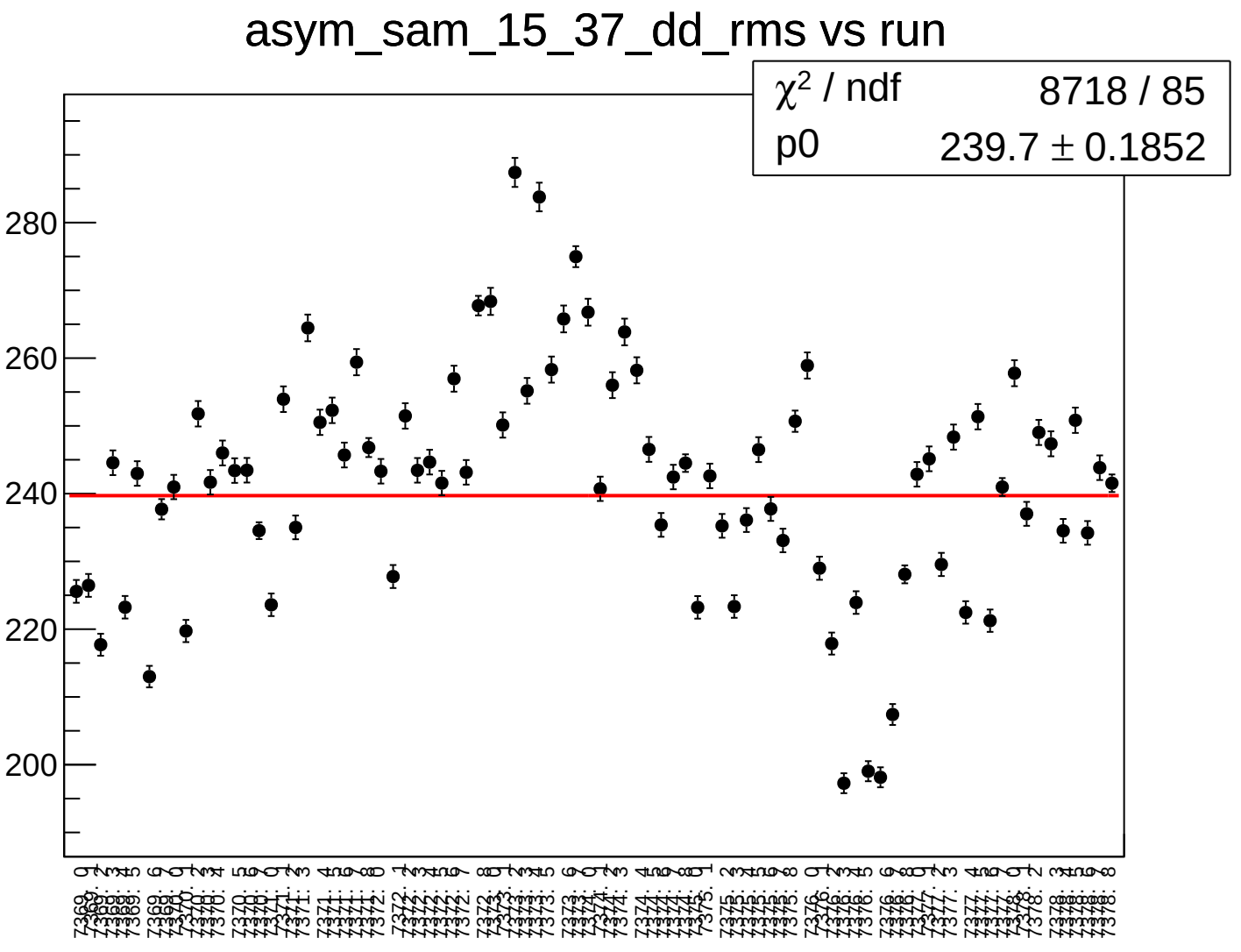

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.93 / 85
p0 −117 ± 258
pull
Entries 86
Mean 190.5
Std Dev 0

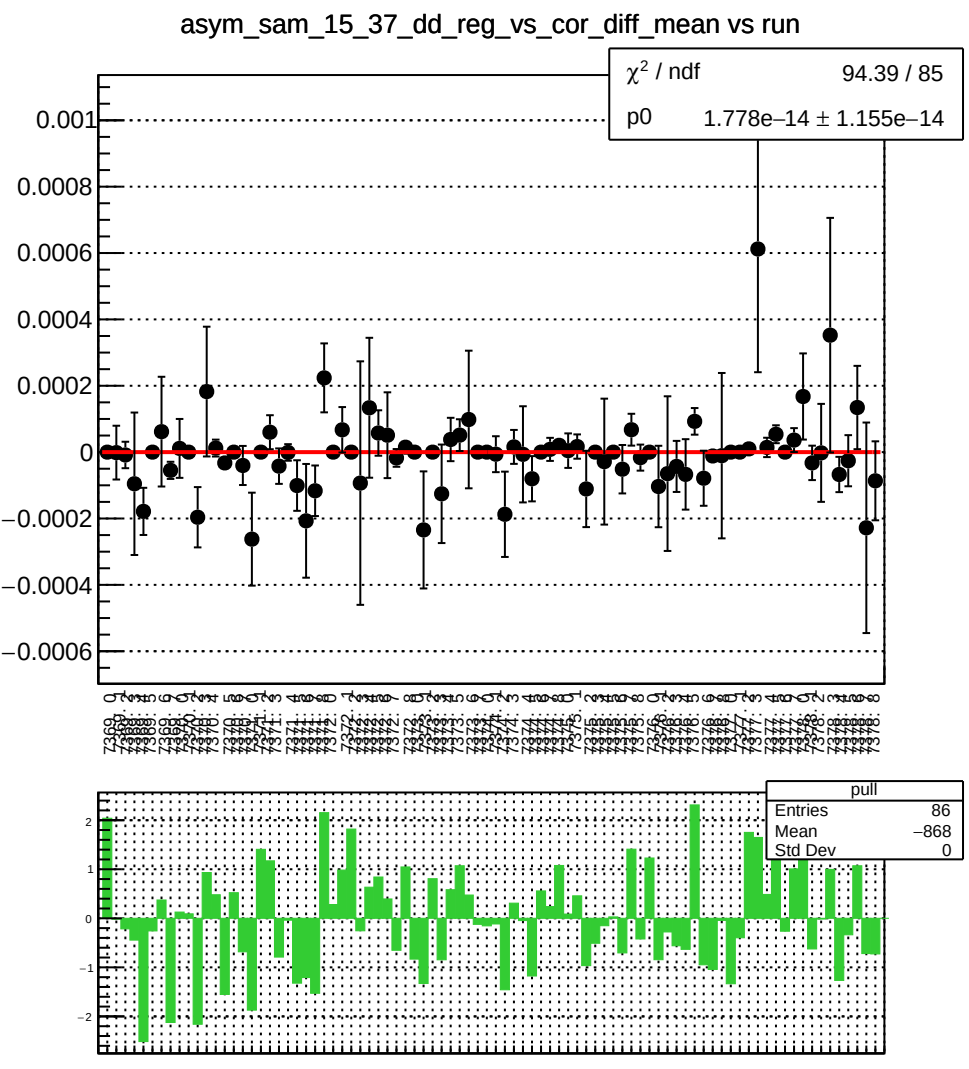

pull1D
Entries 86
Mean 0.007013
Std Dev 1.045

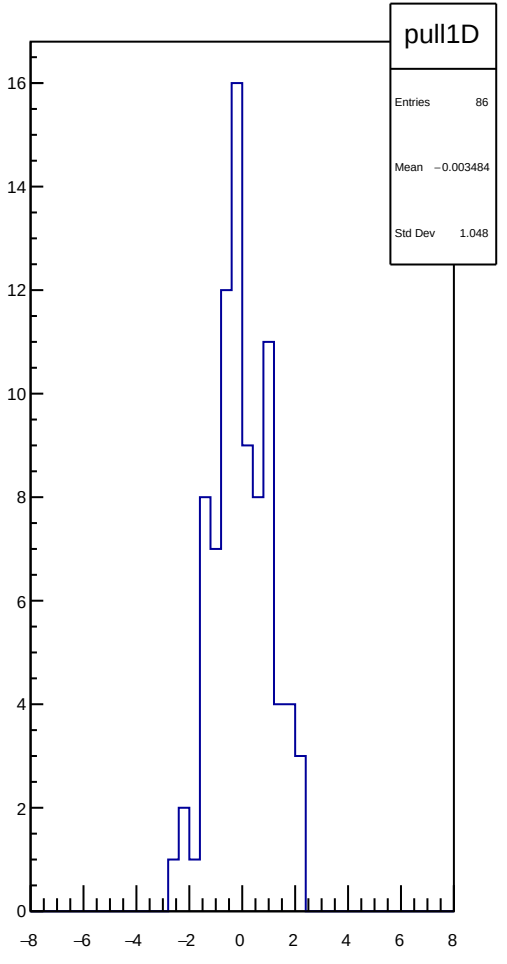

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3332 / 85
p0 236.5 ± 0.1824
260
250
240
230
220
210

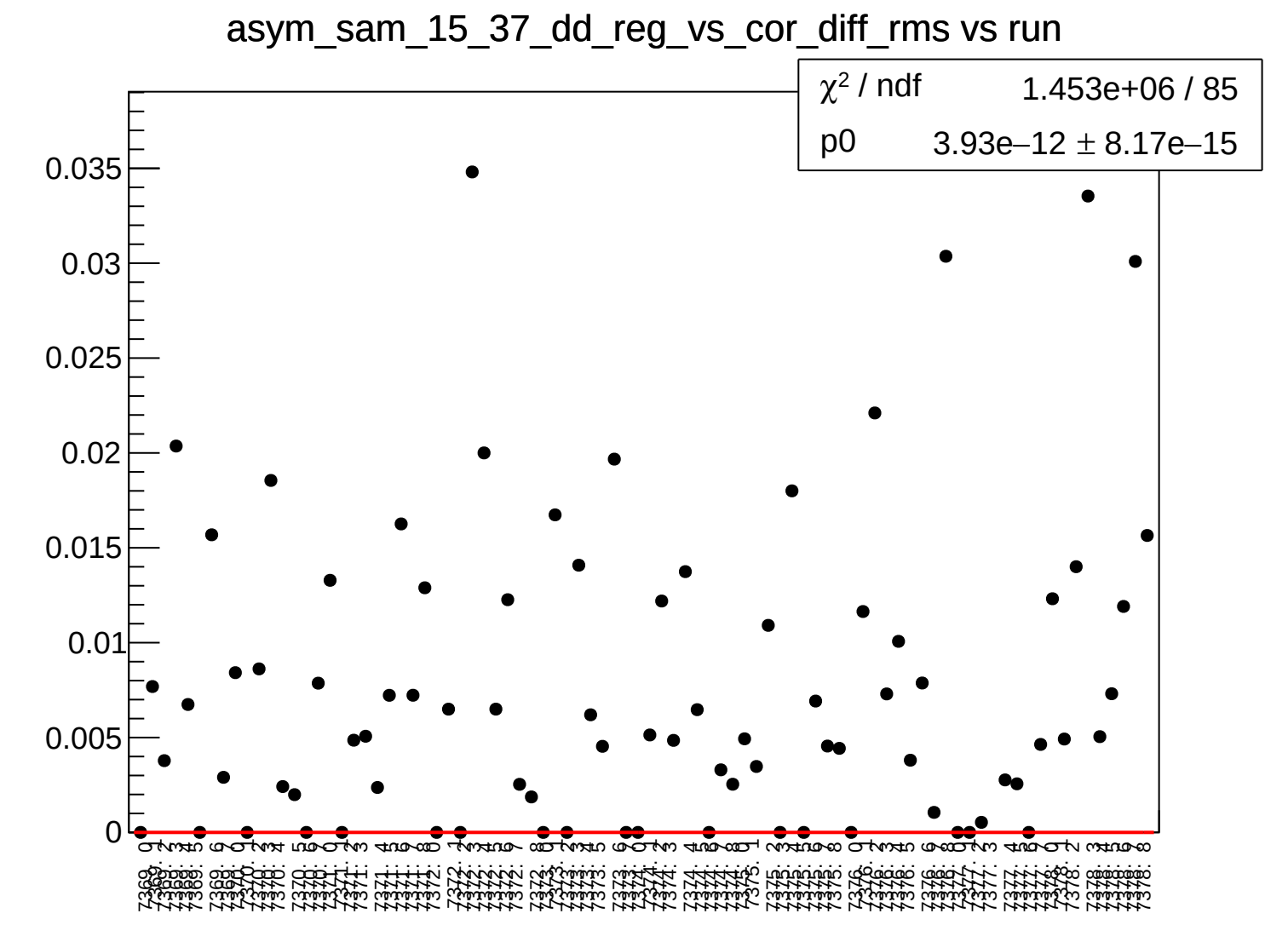

asym_sam_15_37_dd_mean vs run
χ² / ndf 87.77 / 85
p0 161.5 ± 261.9
pull
Entries 86
Mean 87.73
Std Dev 0

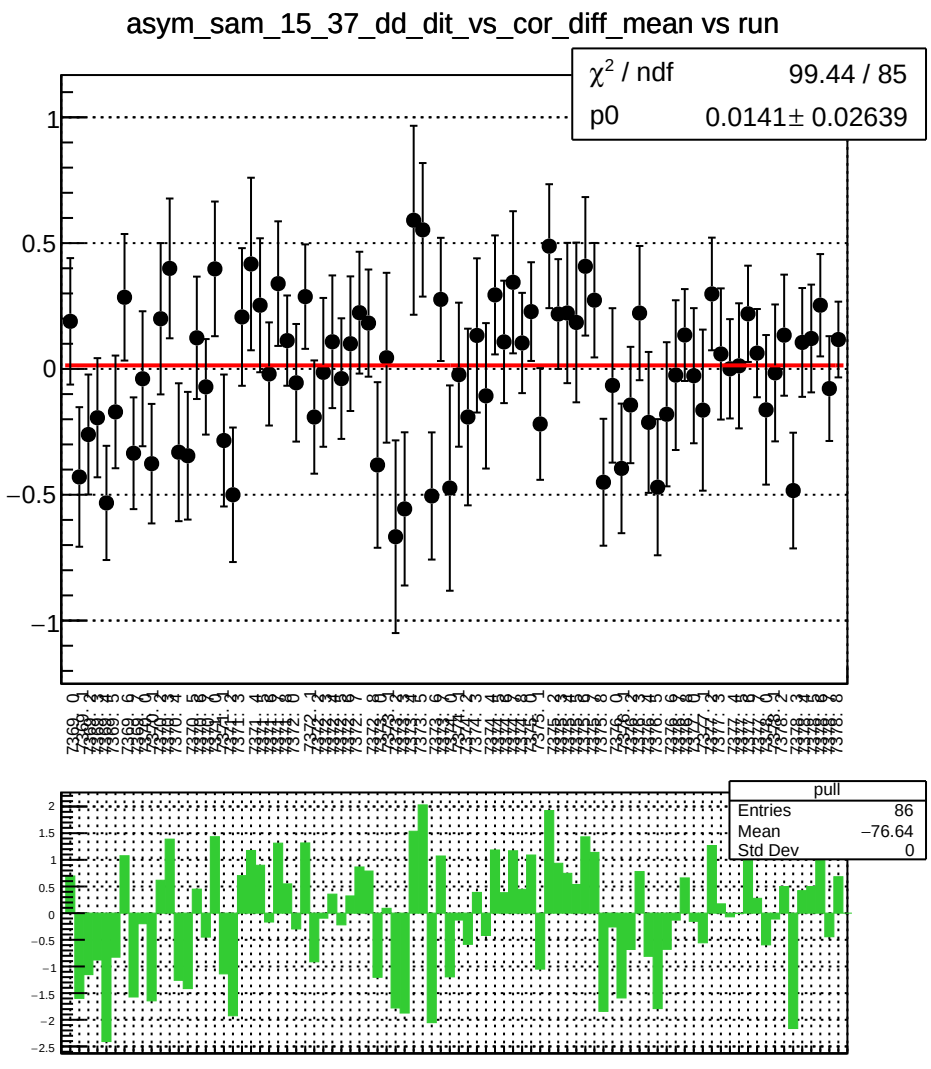

pull1D
Entries 86
Mean −0.01798
Std Dev 1.01

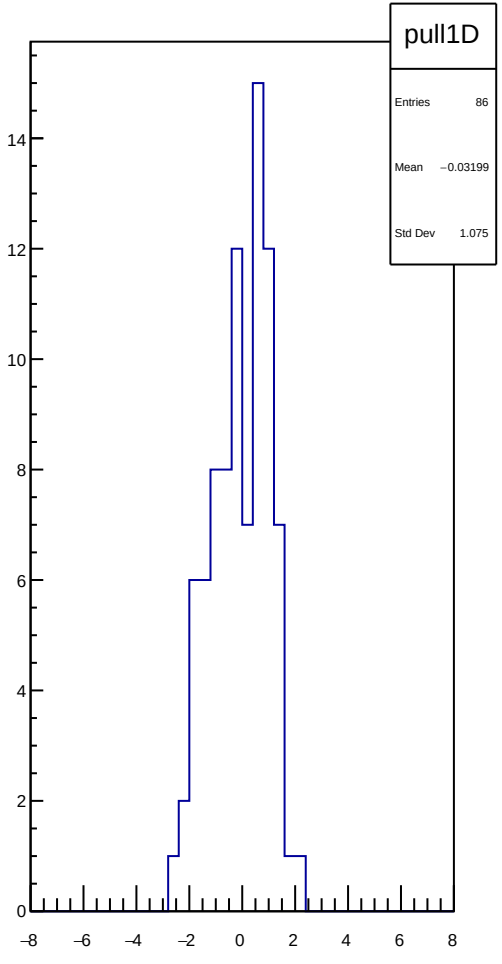

asym_sam_15_37_dd_rms vs run
χ² / ndf 8718 / 85
p0 239.7 ± 0.1852
280
260
240
220
200

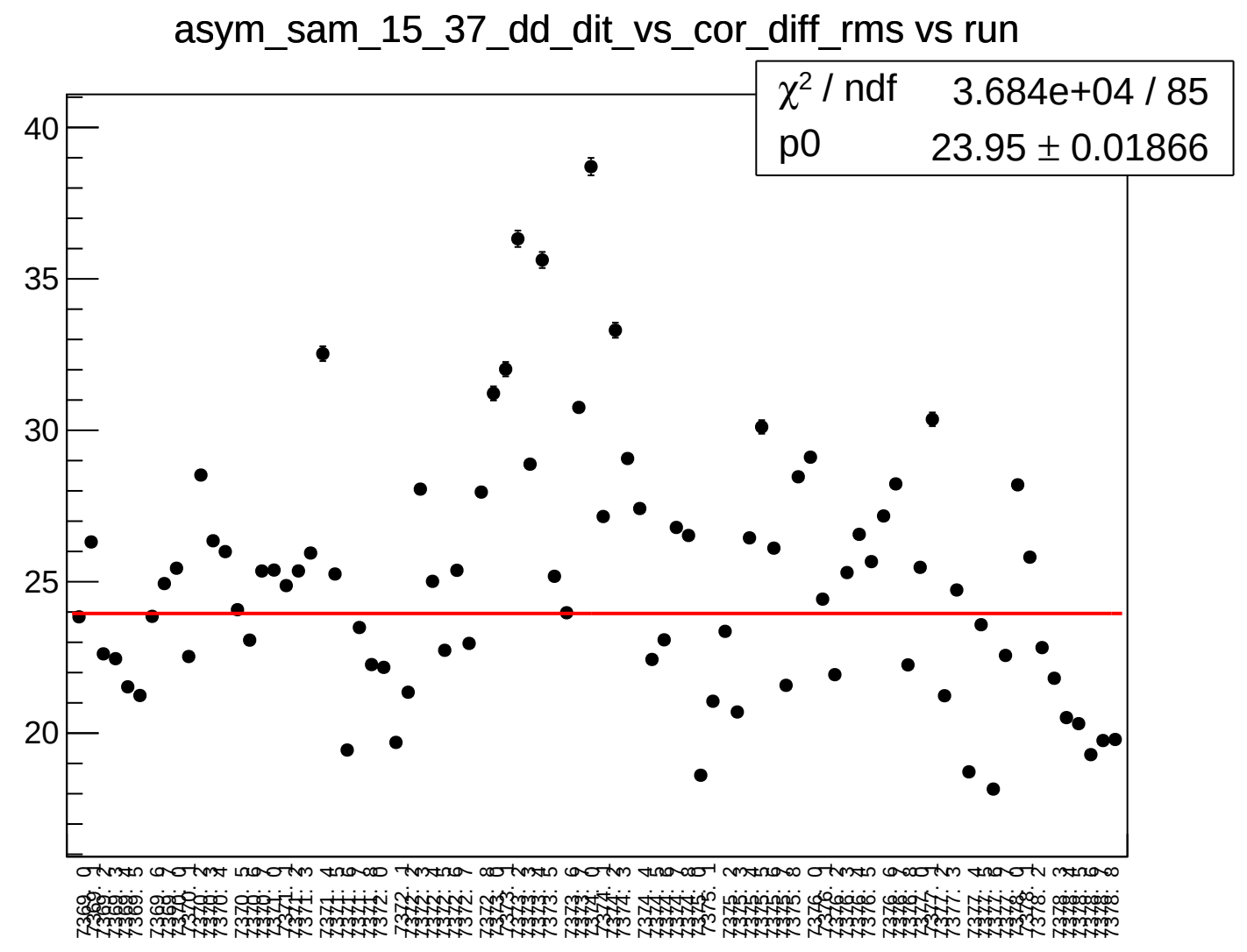

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.39 / 85
p0 1.778e−14 ± 1.155e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 86
Mean −868
Std Dev 0
2
1
0
−1
−2

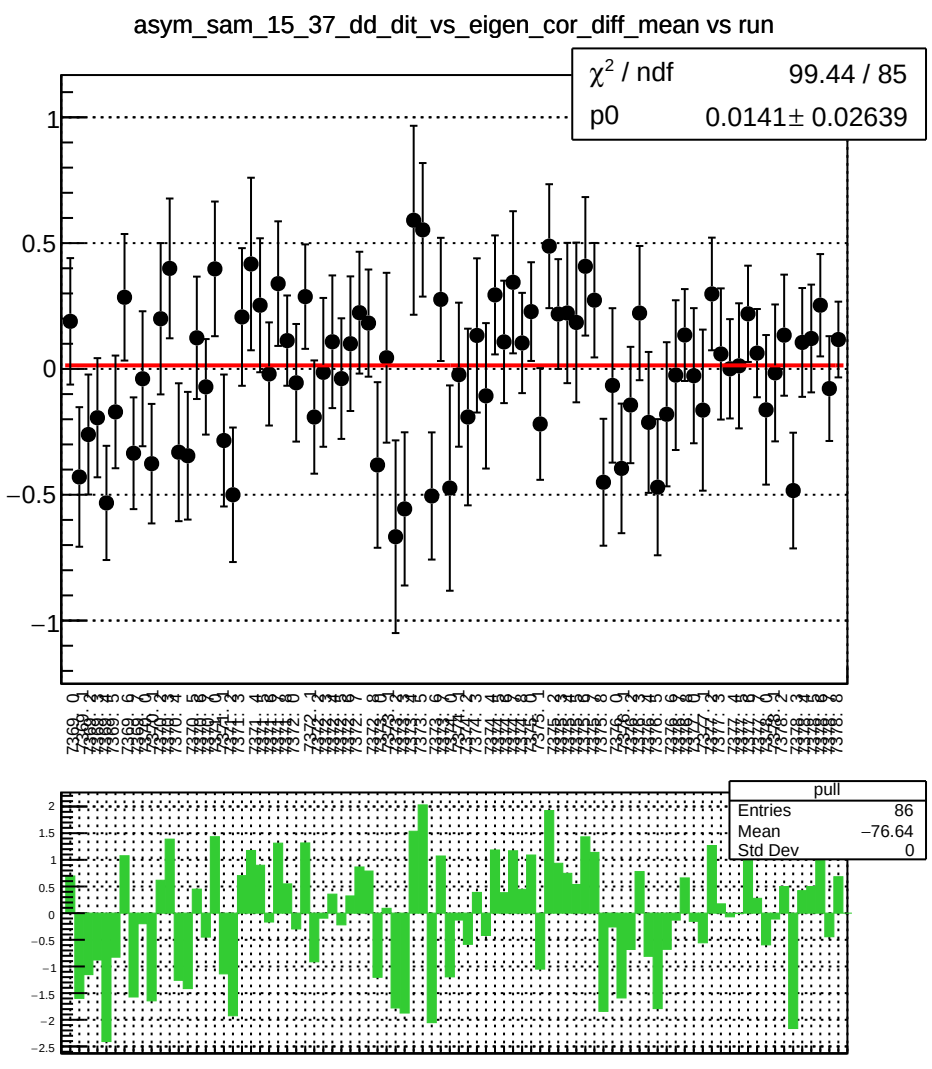

pull1D
Entries 86
Mean −0.003484
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

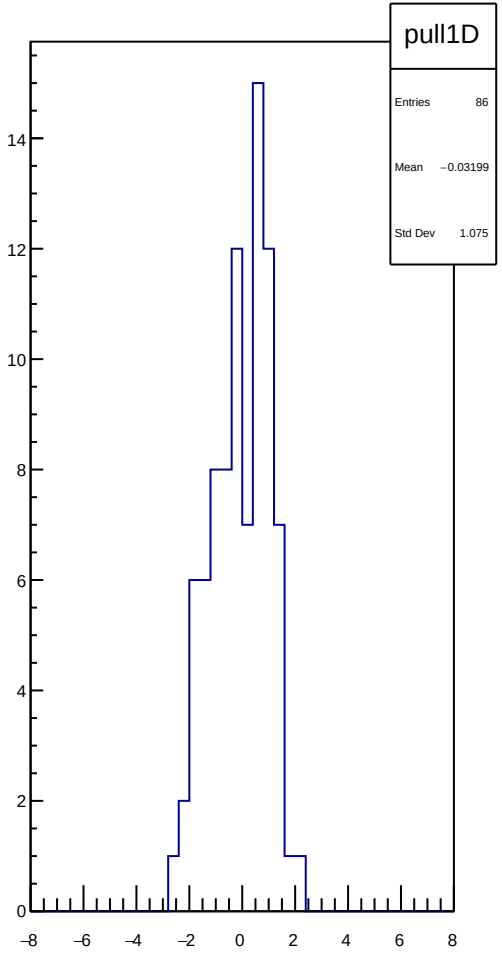

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.453e+06 / 85
p0 3.93e−12 ± 8.17e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

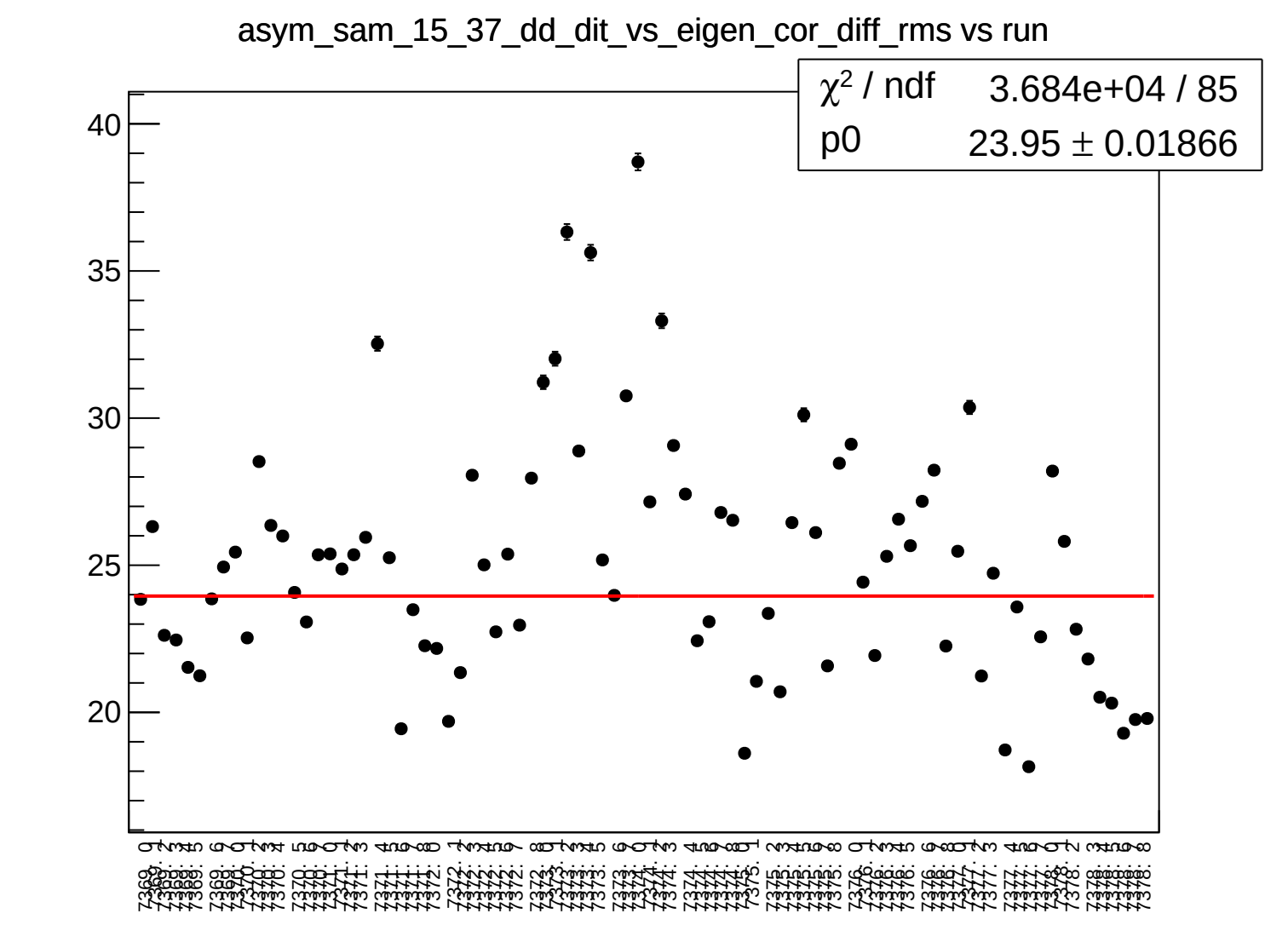

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.44 / 85
p0 0.0141± 0.02639
pull
Entries 86
Mean −76.64
Std Dev 0

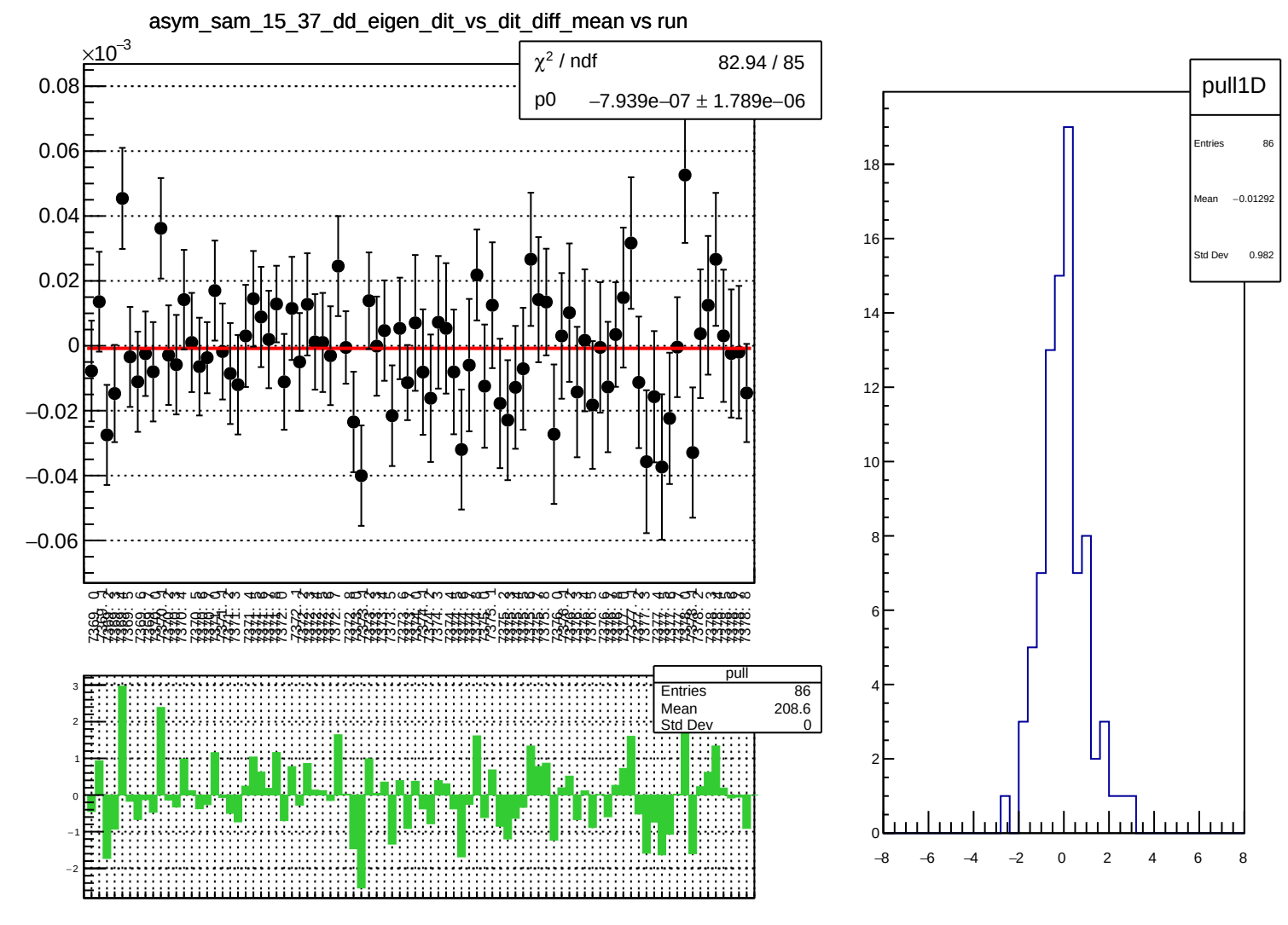

pull1D
Entries 86
Mean −0.03199
Std Dev 1.075

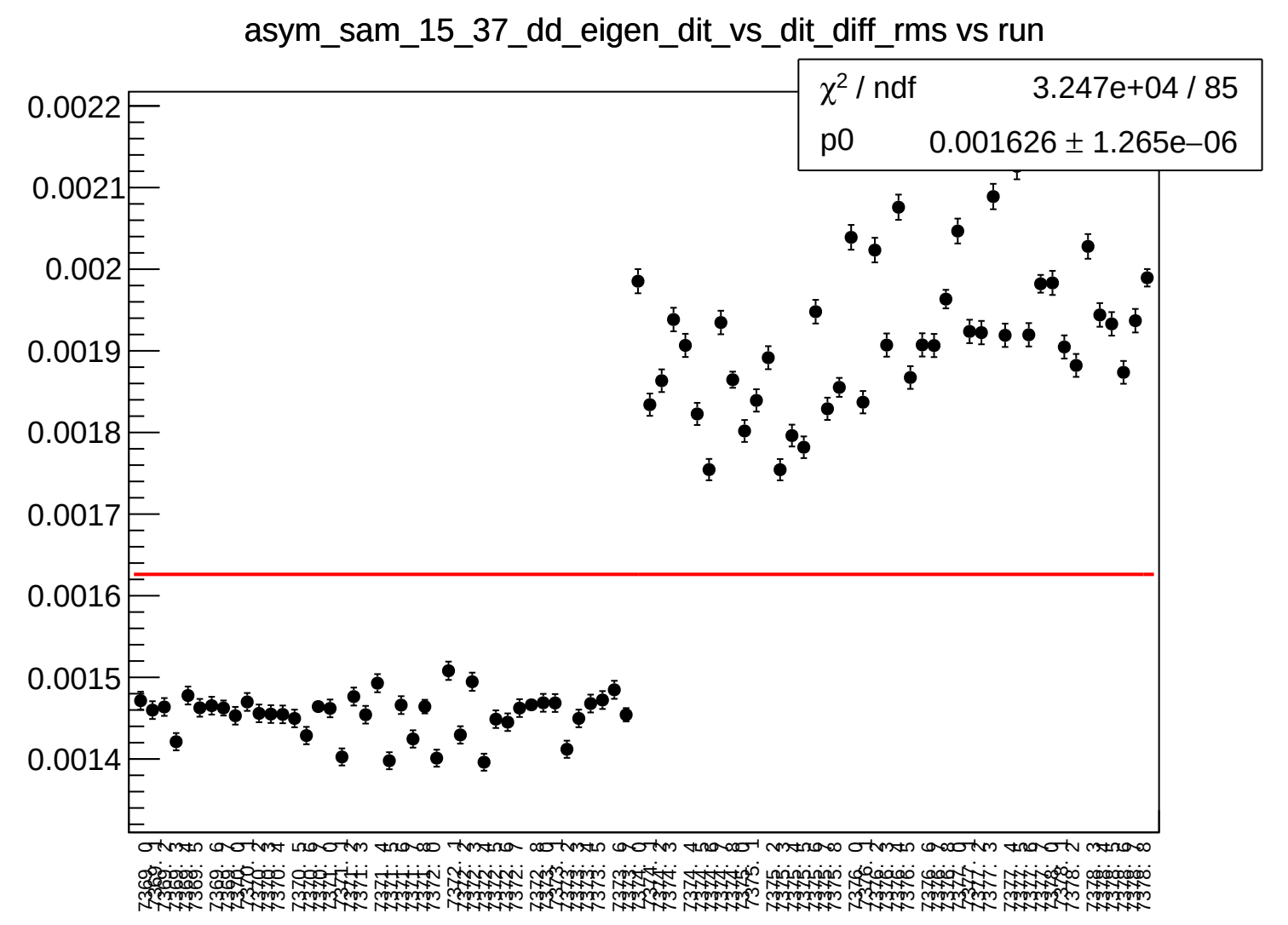

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.684e+04 / 85
p0 23.95 ± 0.01866
40
35
30
25
20

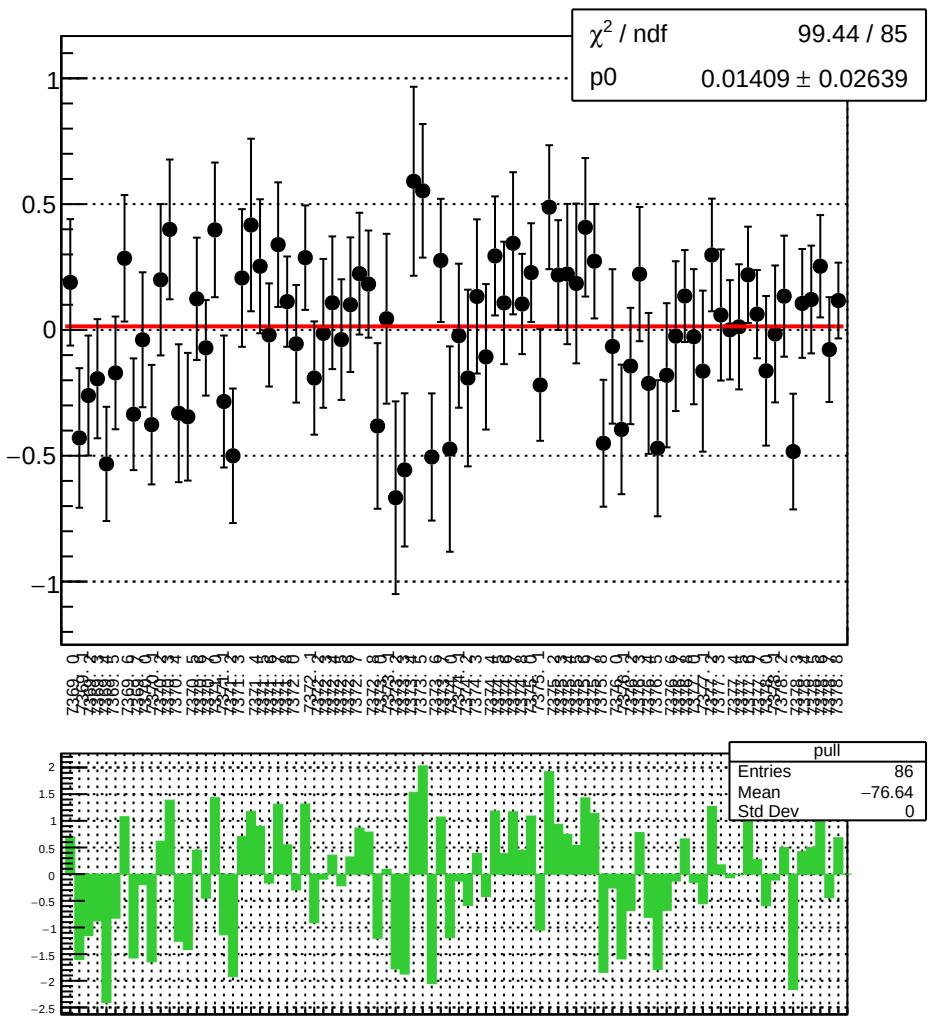

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.44 / 85
p0 0.0141± 0.02639
pull
Entries 86
Mean −76.64
Std Dev 0

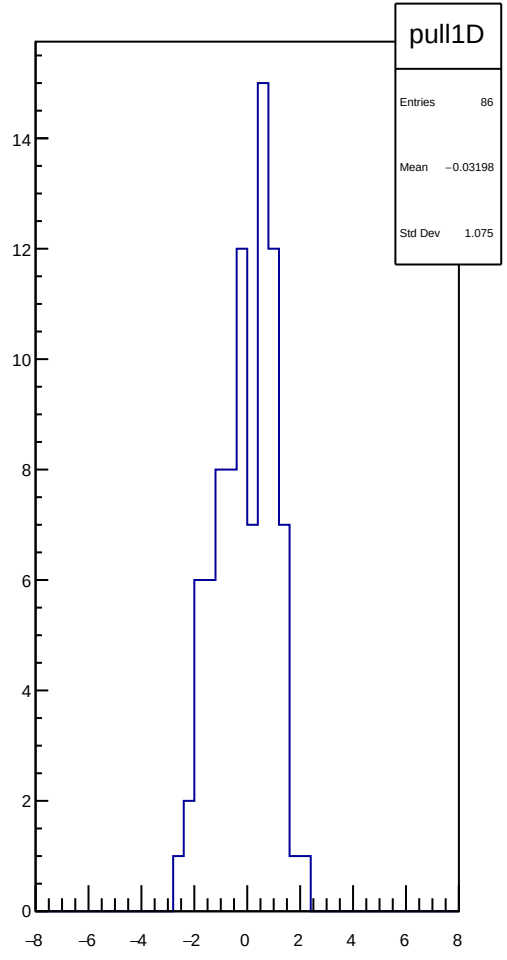

pull1D
Entries 86
Mean −0.03199
Std Dev 1.075

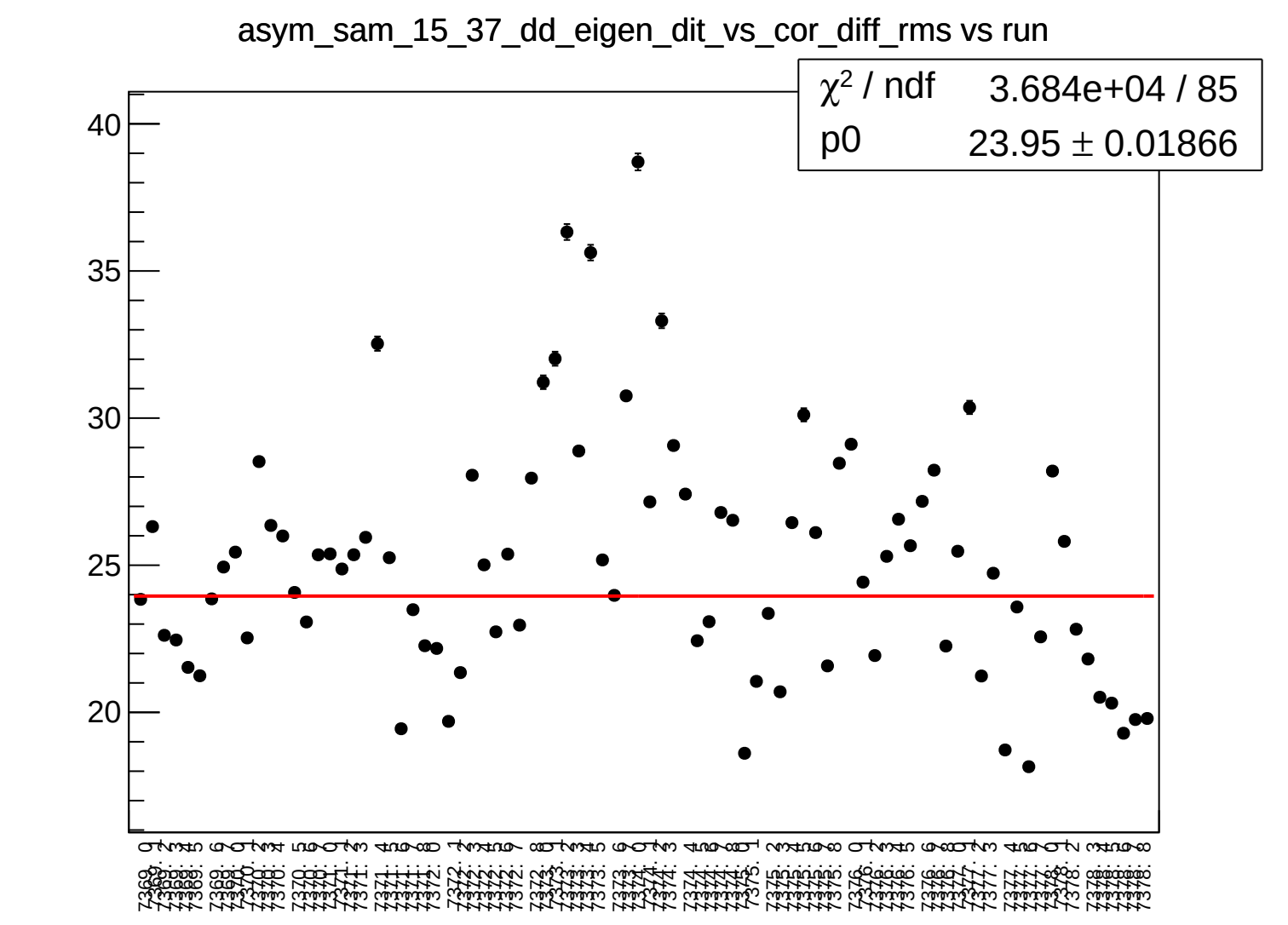

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.684e+04 / 85
p0 23.95 ± 0.01866
40
35
30
25
20

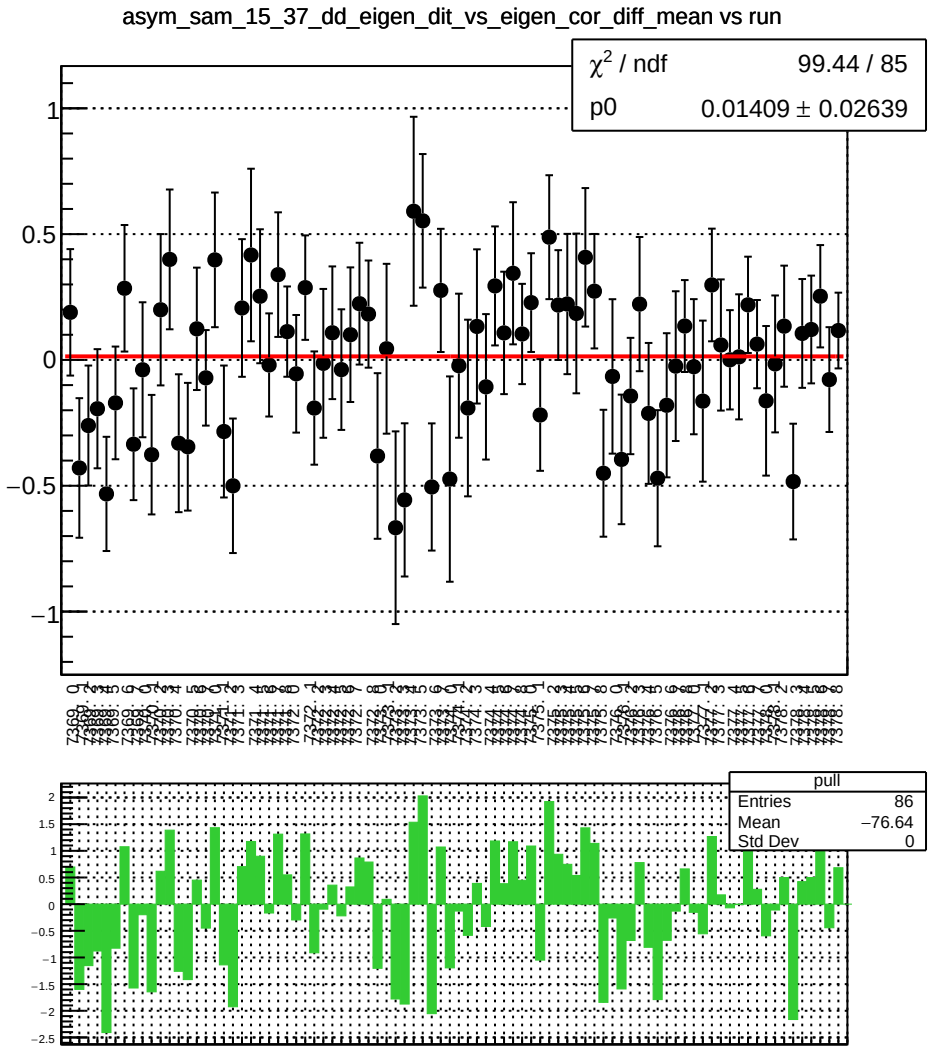

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.94 / 85
p0 −7.939e−07 ± 1.789e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 208.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01292
Std Dev 0.982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

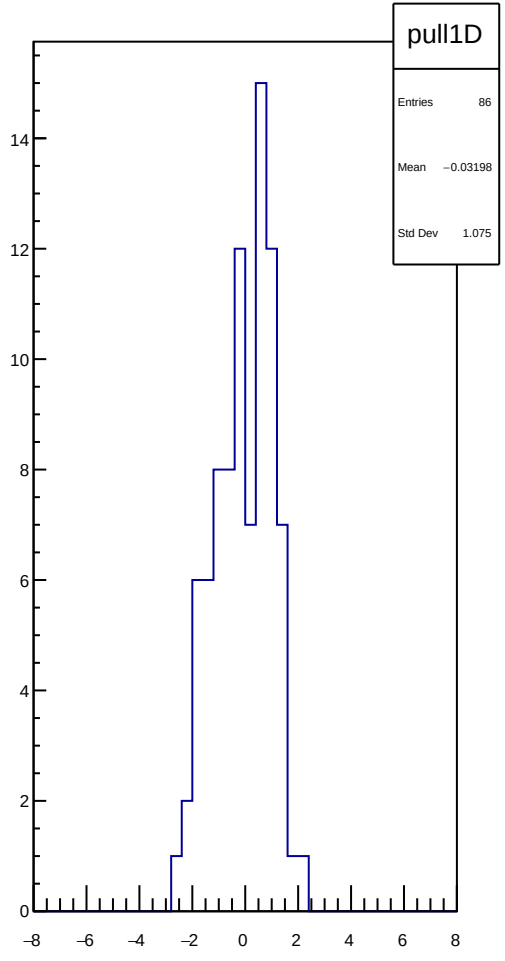

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.247e+04 / 85
p0 0.001626 ± 1.265e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

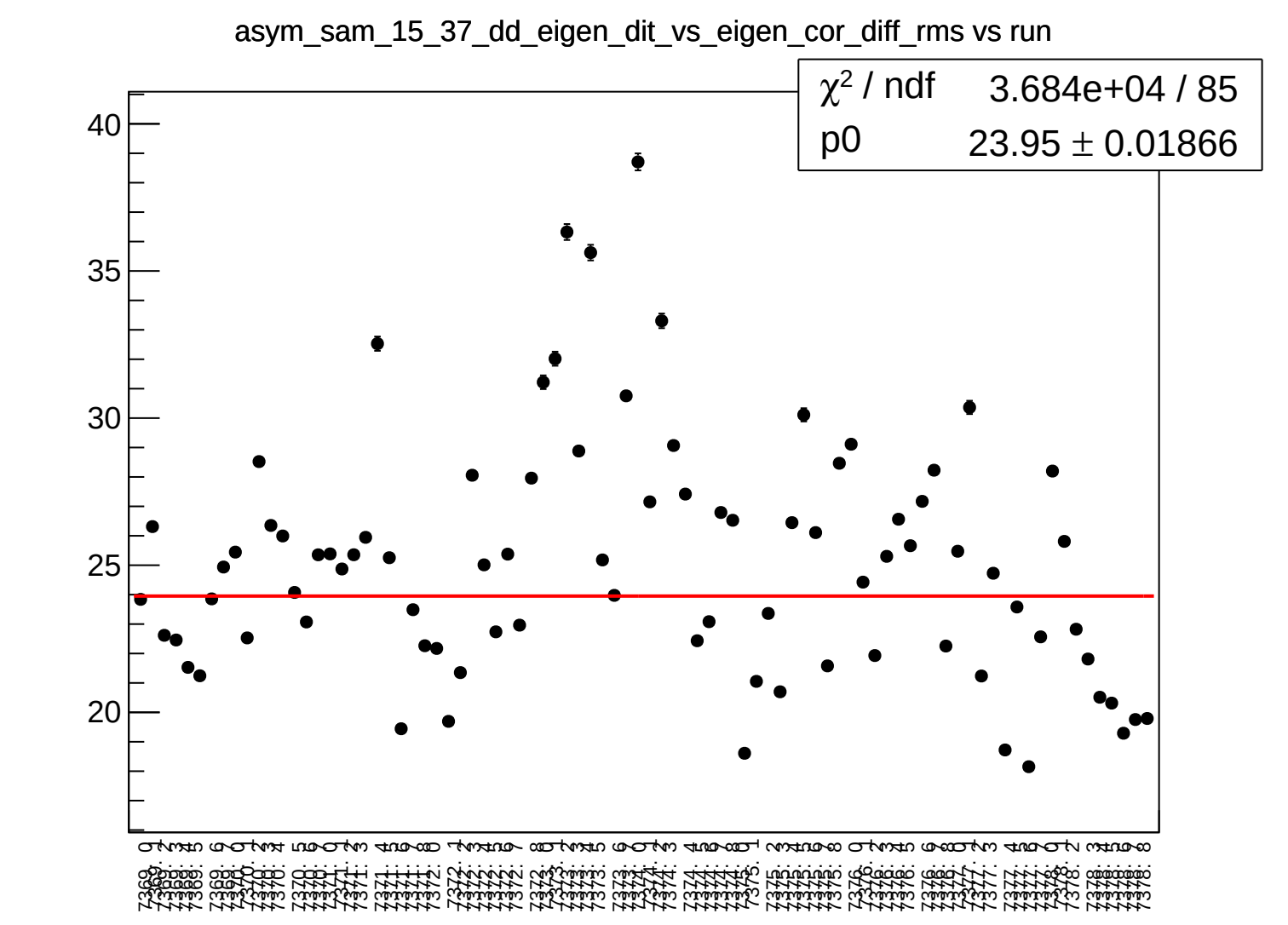

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.44 / 85
p0 0.01409 ± 0.02639
pull
Entries 86
Mean −76.64
Std Dev 0

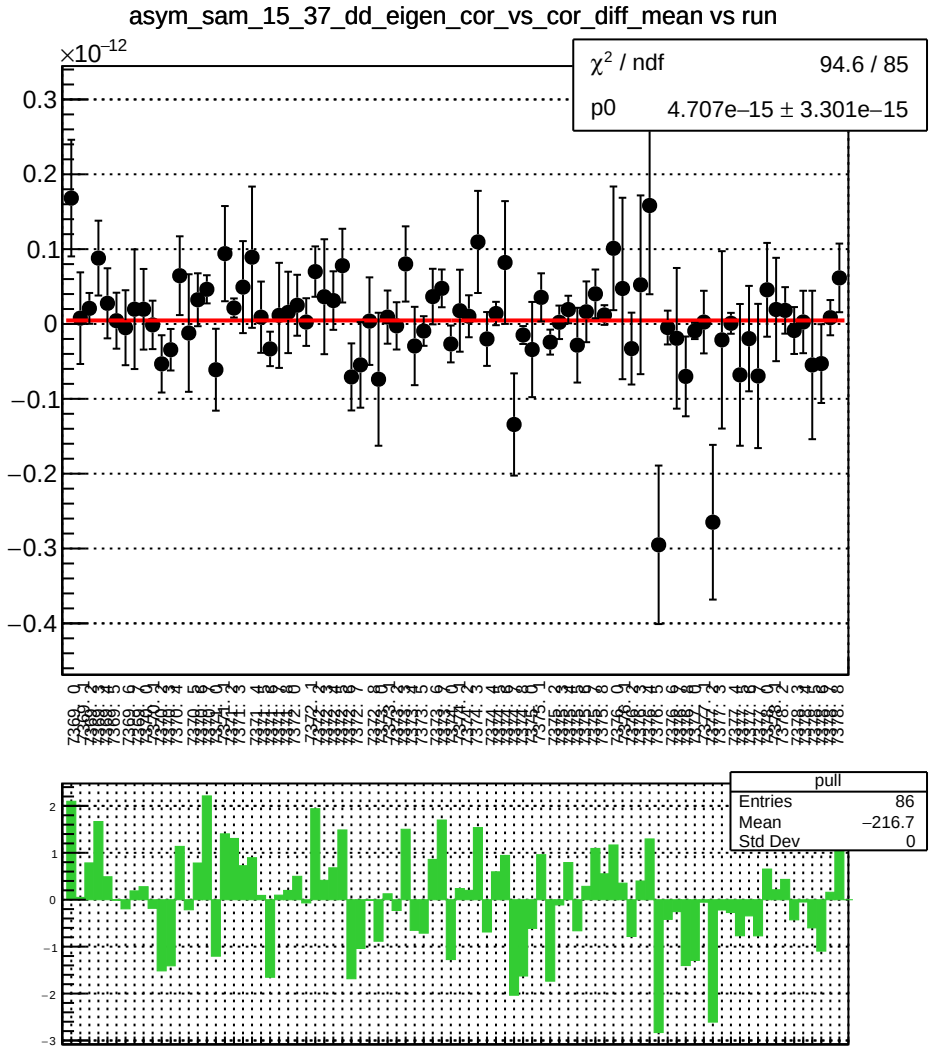

pull1D
Entries 86
Mean −0.03198
Std Dev 1.075

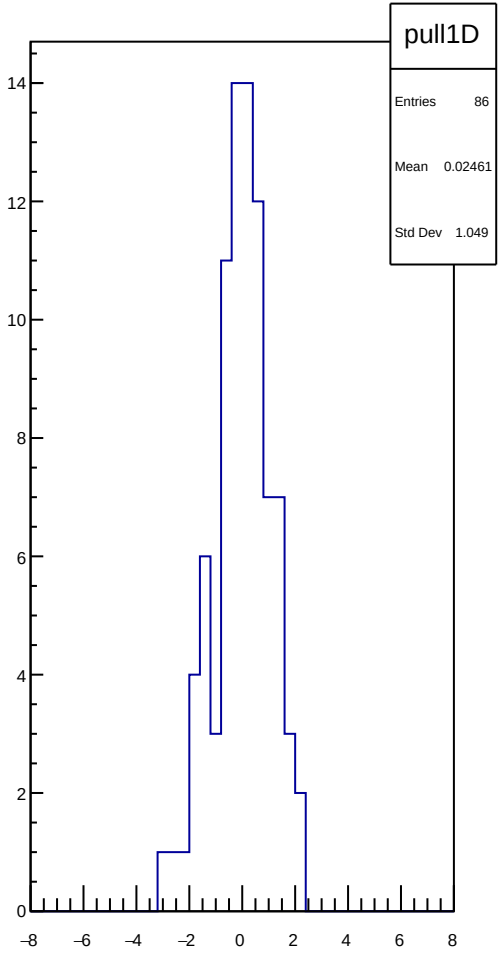

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.684e+04 / 85
p0 23.95 ± 0.01866
40
35
30
25
20

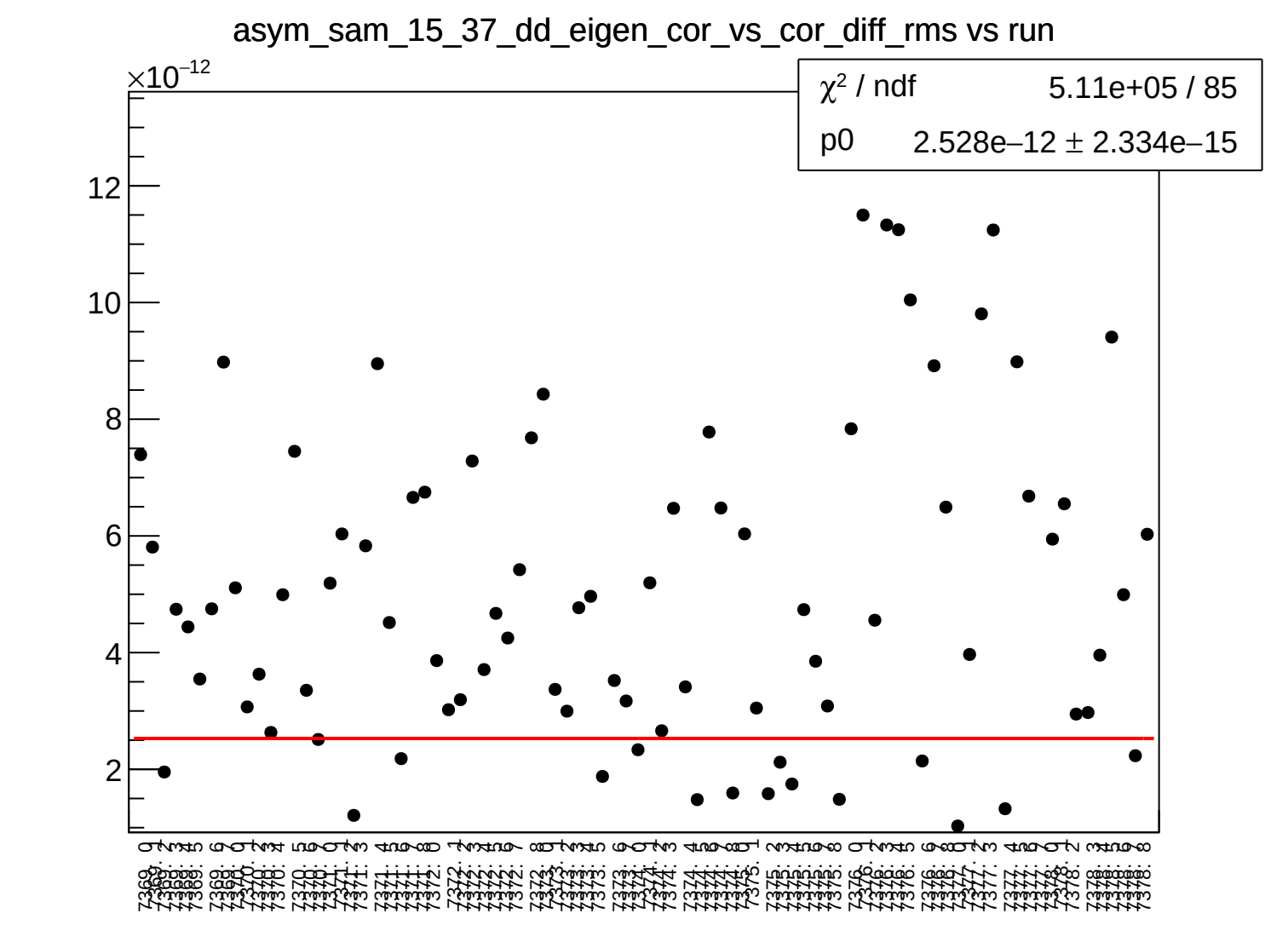

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.44 / 85
p0 0.01409 ± 0.02639
pull
Entries 86
Mean −76.64
Std Dev 0

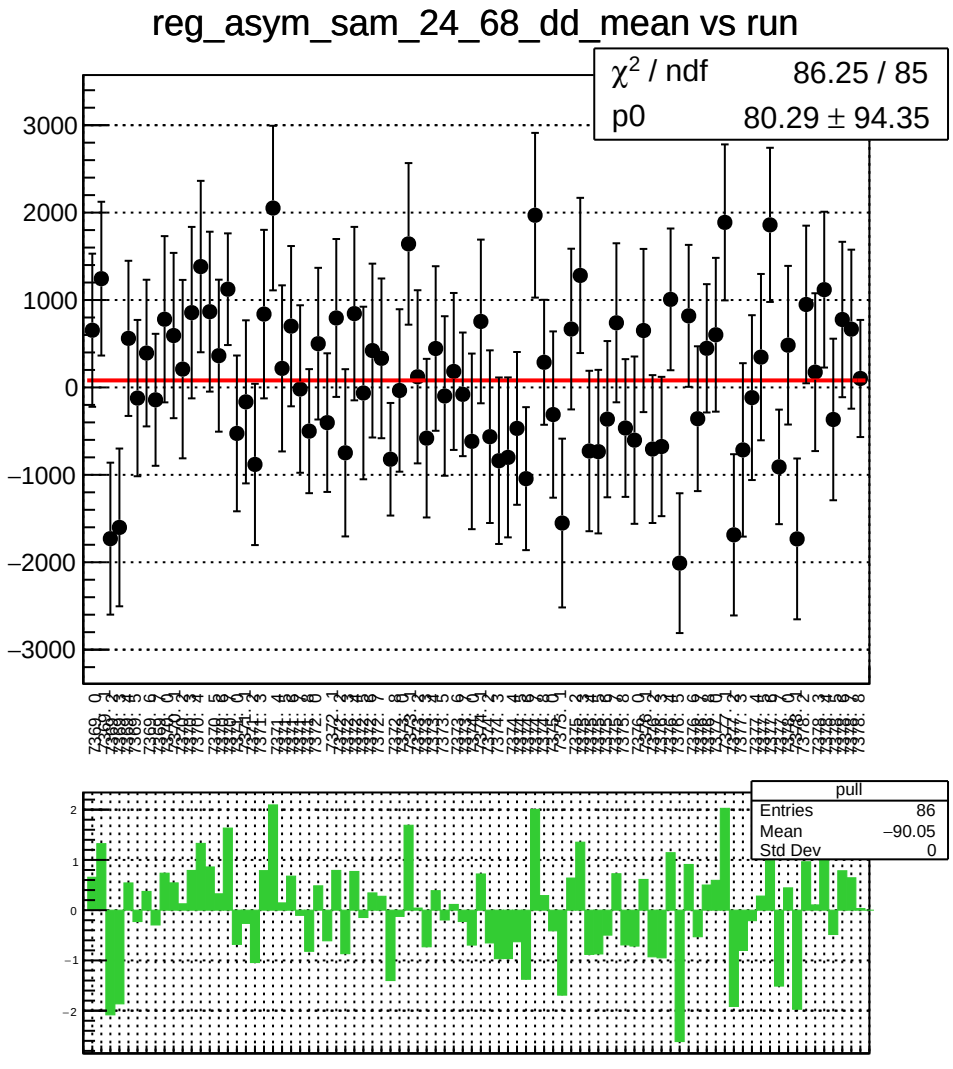

pull1D
Entries 86
Mean −0.03198
Std Dev 1.075

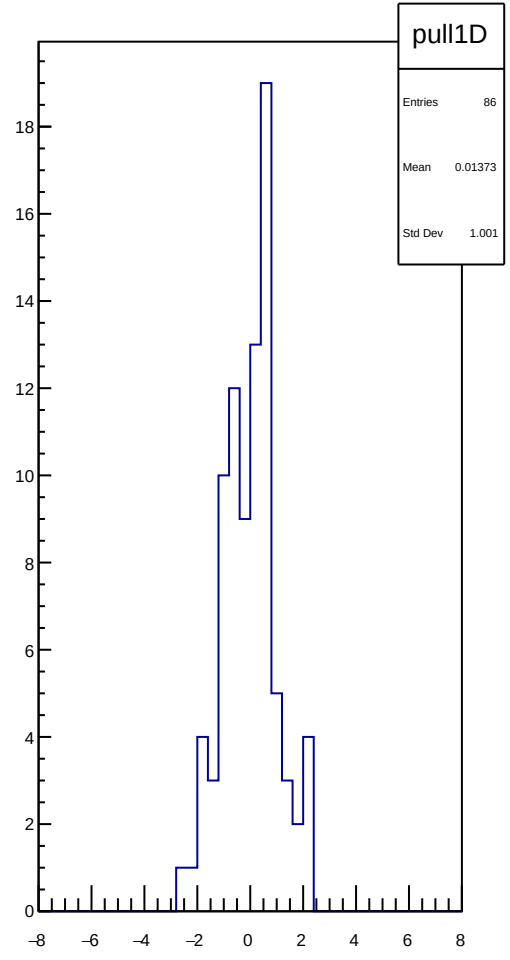

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.684e+04 / 85
p0 23.95 ± 0.01866
40
35
30
25
20

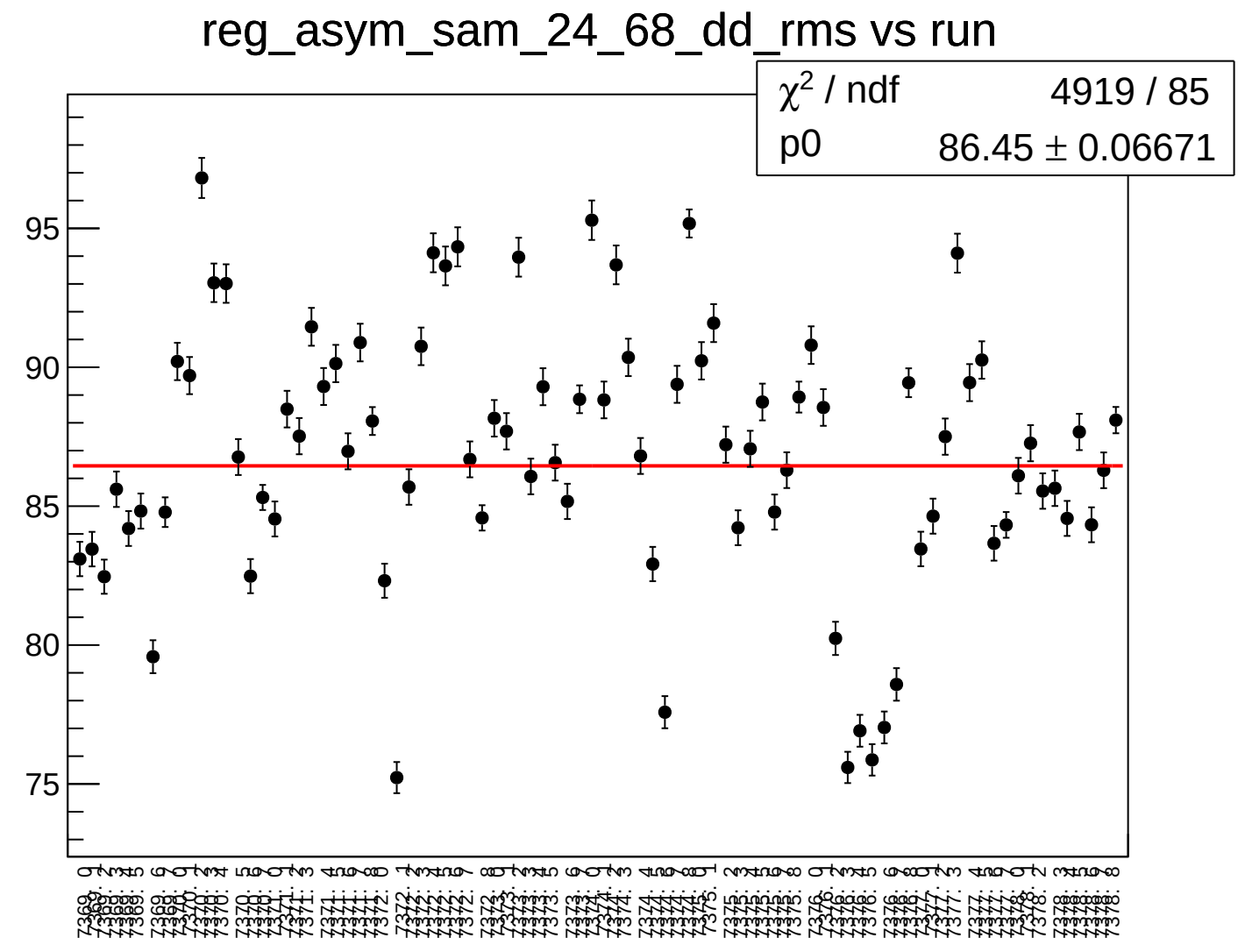

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 94.6 / 85
p0 4.707e−15 ± 3.301e−15
pull
Entries 86
Mean −216.7
Std Dev 0

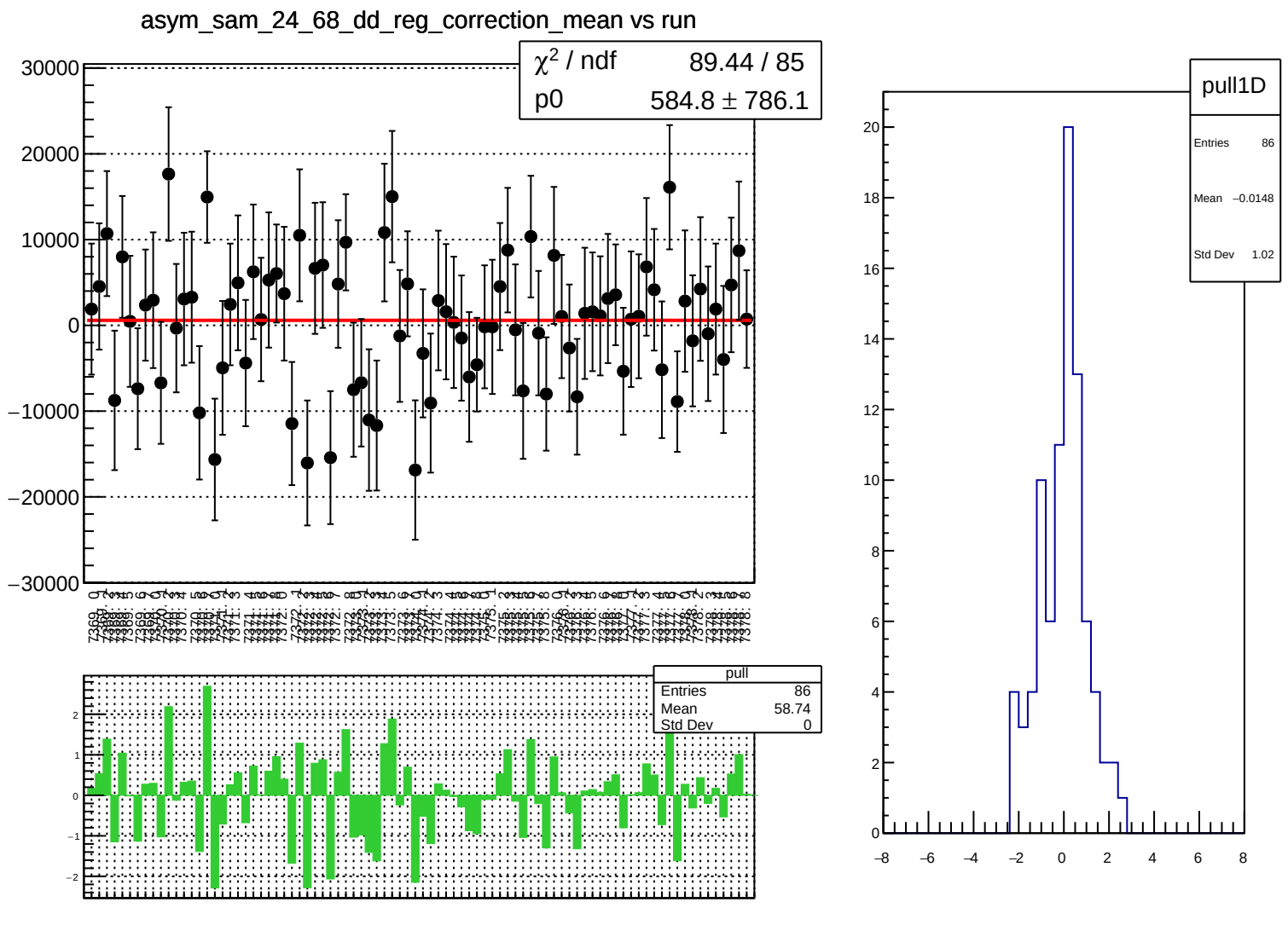

pull1D
Entries 86
Mean 0.02461
Std Dev 1.049

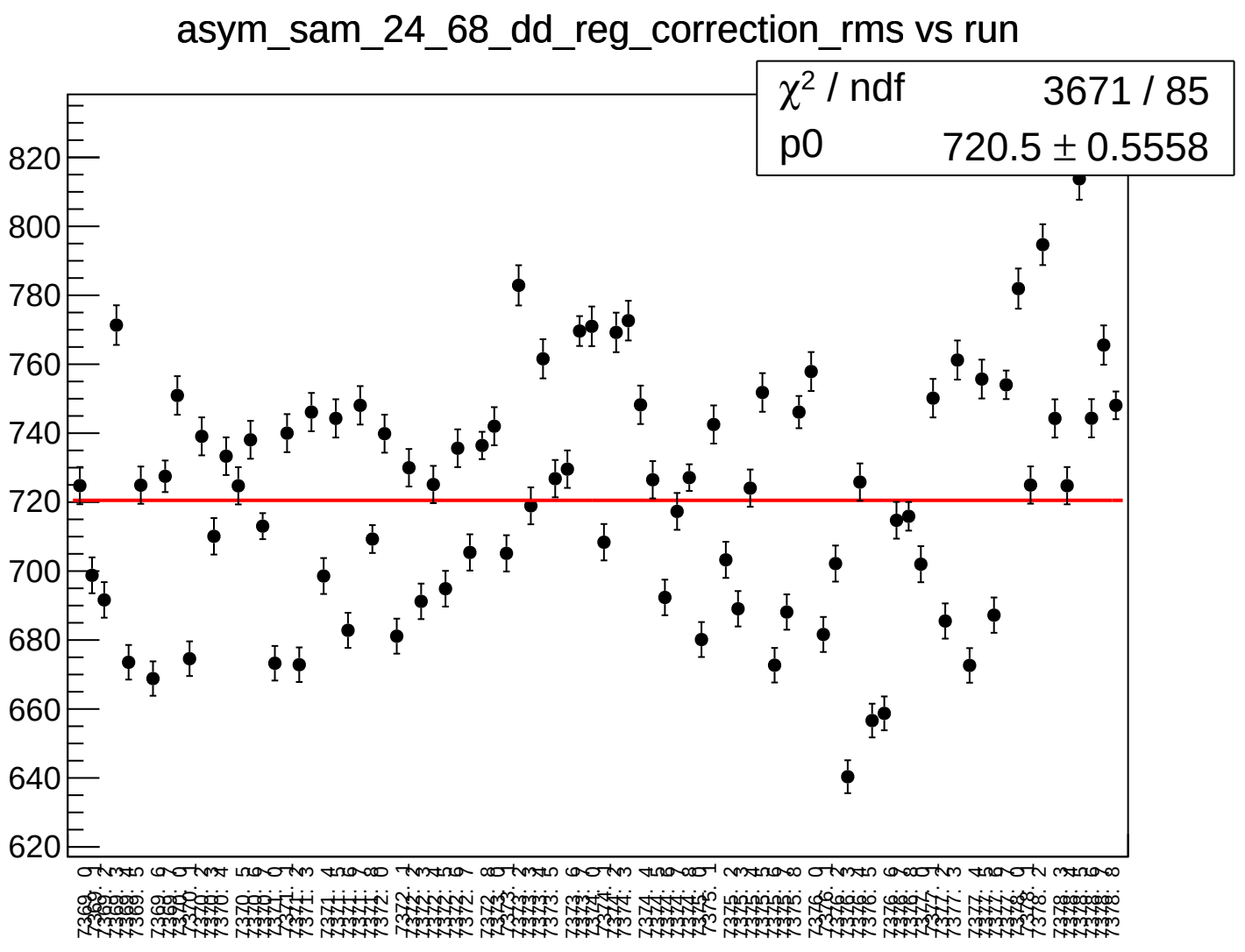

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.11e+05 / 85
p0 2.528e−12 ± 2.334e−15
12
10
8
6
4
2

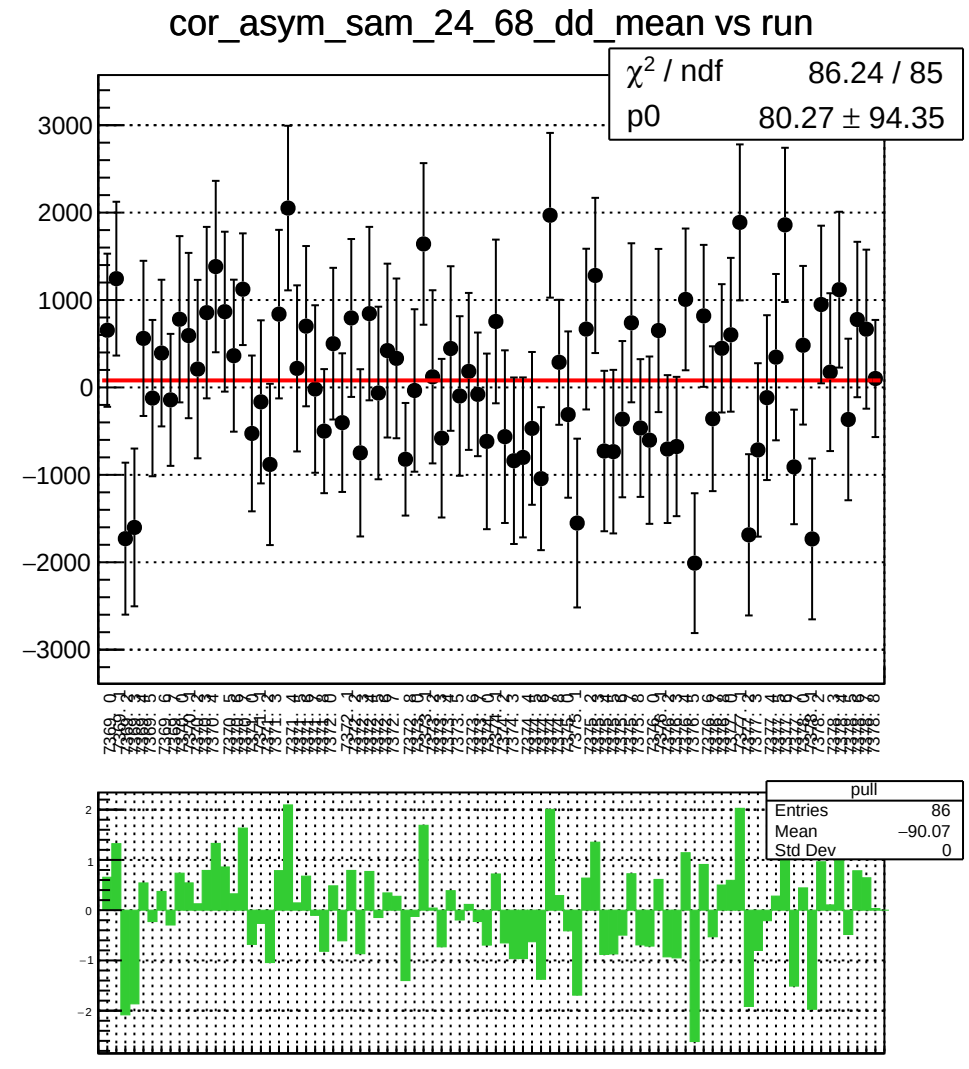

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 86.25 / 85
p0 80.29 ± 94.35
pull
Entries 86
Mean −90.05
Std Dev 0

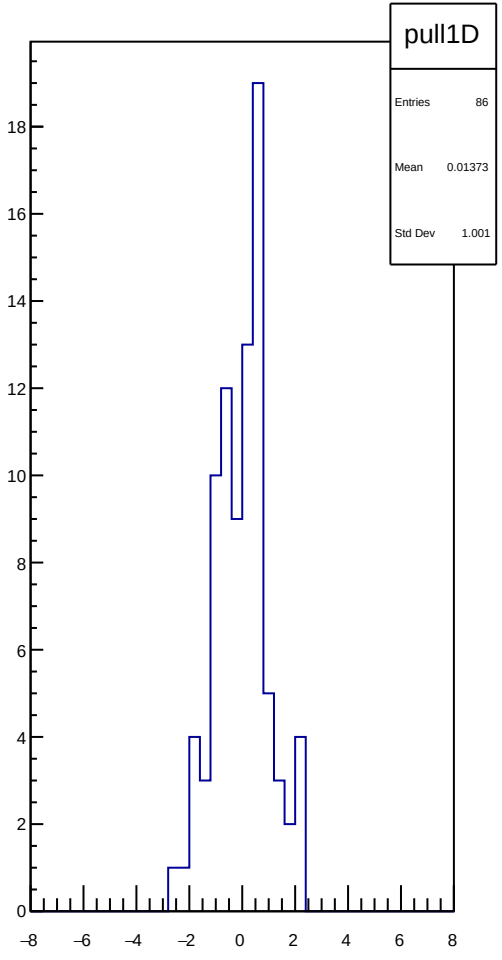

pull1D
Entries 86
Mean 0.01373
Std Dev 1.001

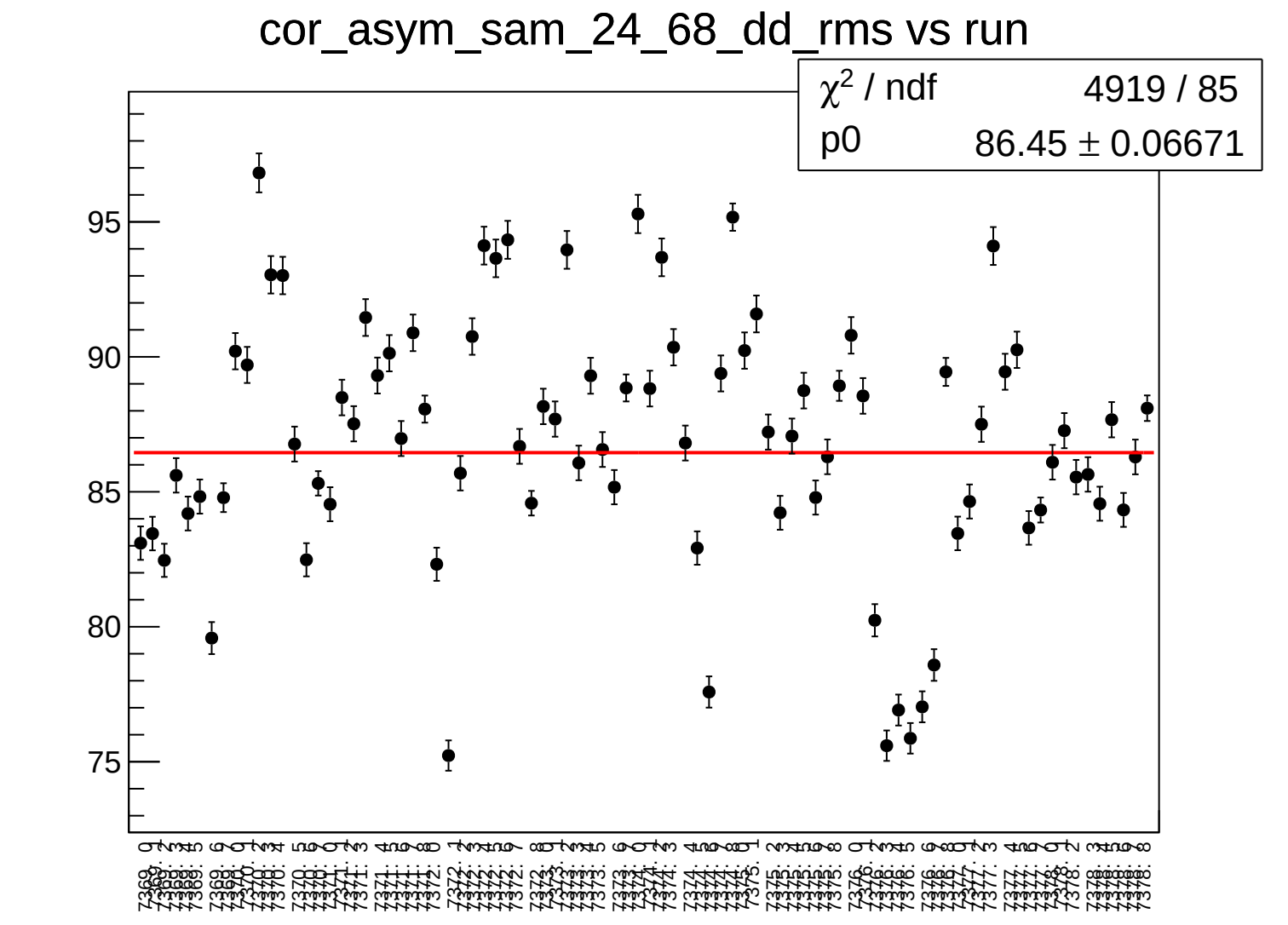

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 4919 / 85
p0 86.45 ± 0.06671
95
90
85
80
75

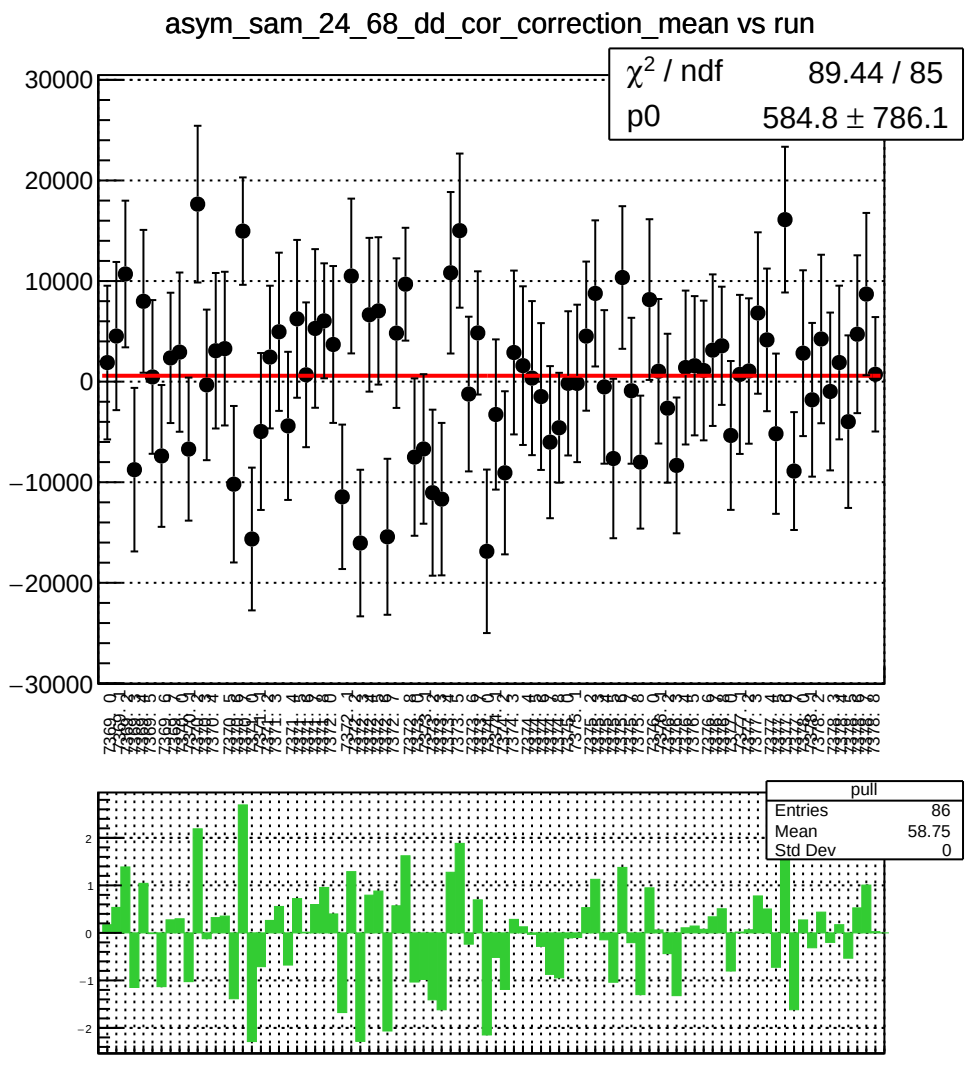

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 89.44 / 85
p0 584.8 ± 786.1
pull
Entries 86
Mean 58.74
Std Dev 0
pull1D
Entries 86
Mean −0.0148
Std Dev 1.02

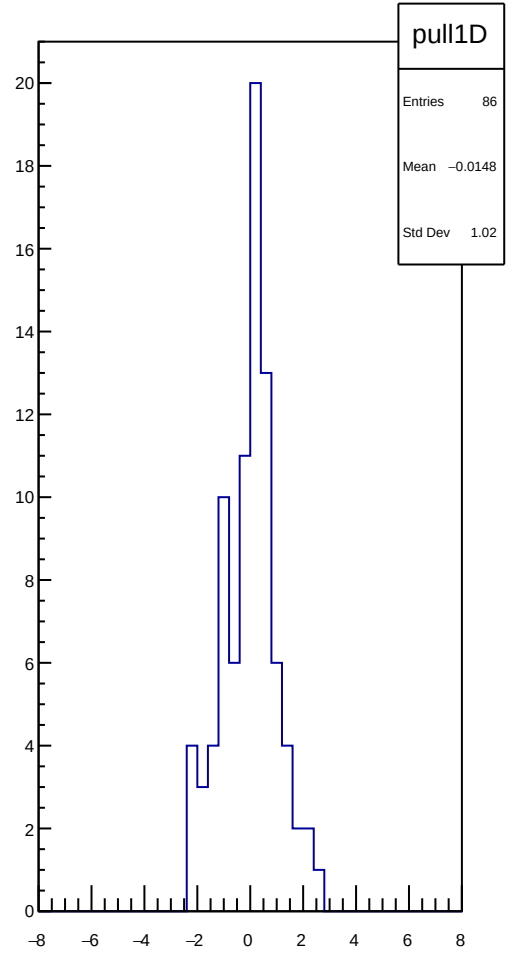

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 3671 / 85
p0 720.5 ± 0.5558
820
800
780
760
740
720
700
680
660
640
620

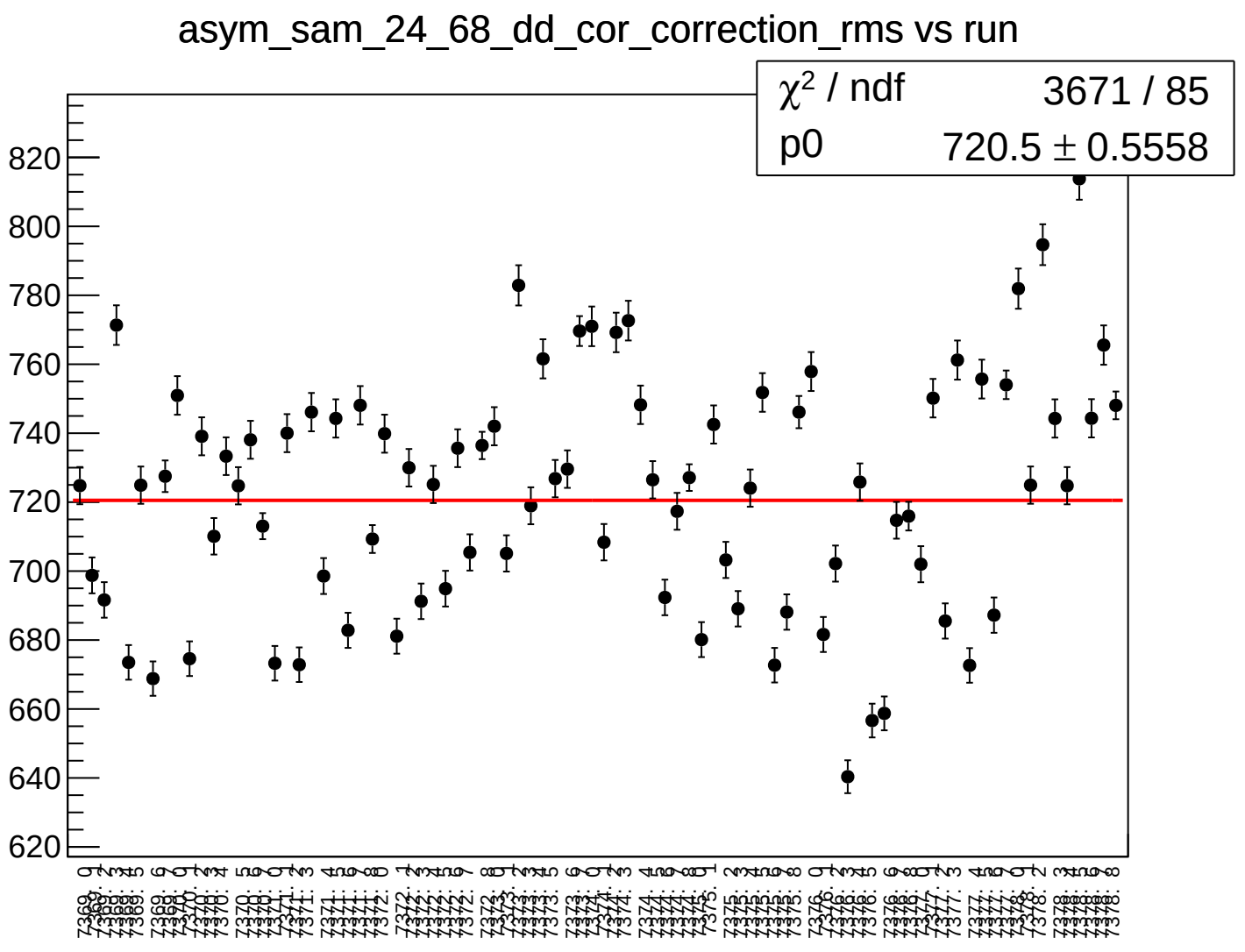

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 86.24 / 85
p0 80.27 ± 94.35
pull
Entries 86
Mean −90.07
Std Dev 0

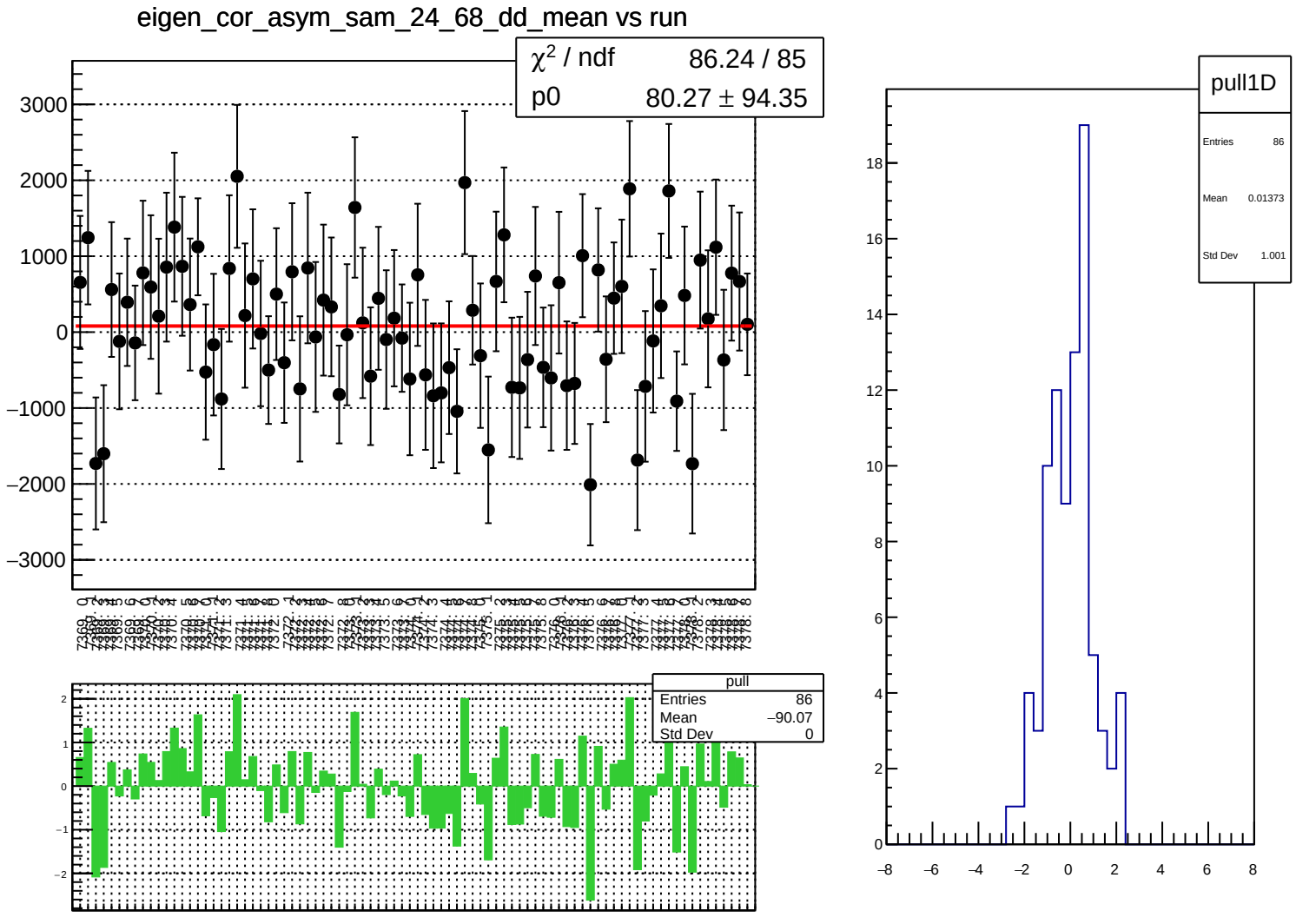

pull1D
Entries 86
Mean 0.01373
Std Dev 1.001

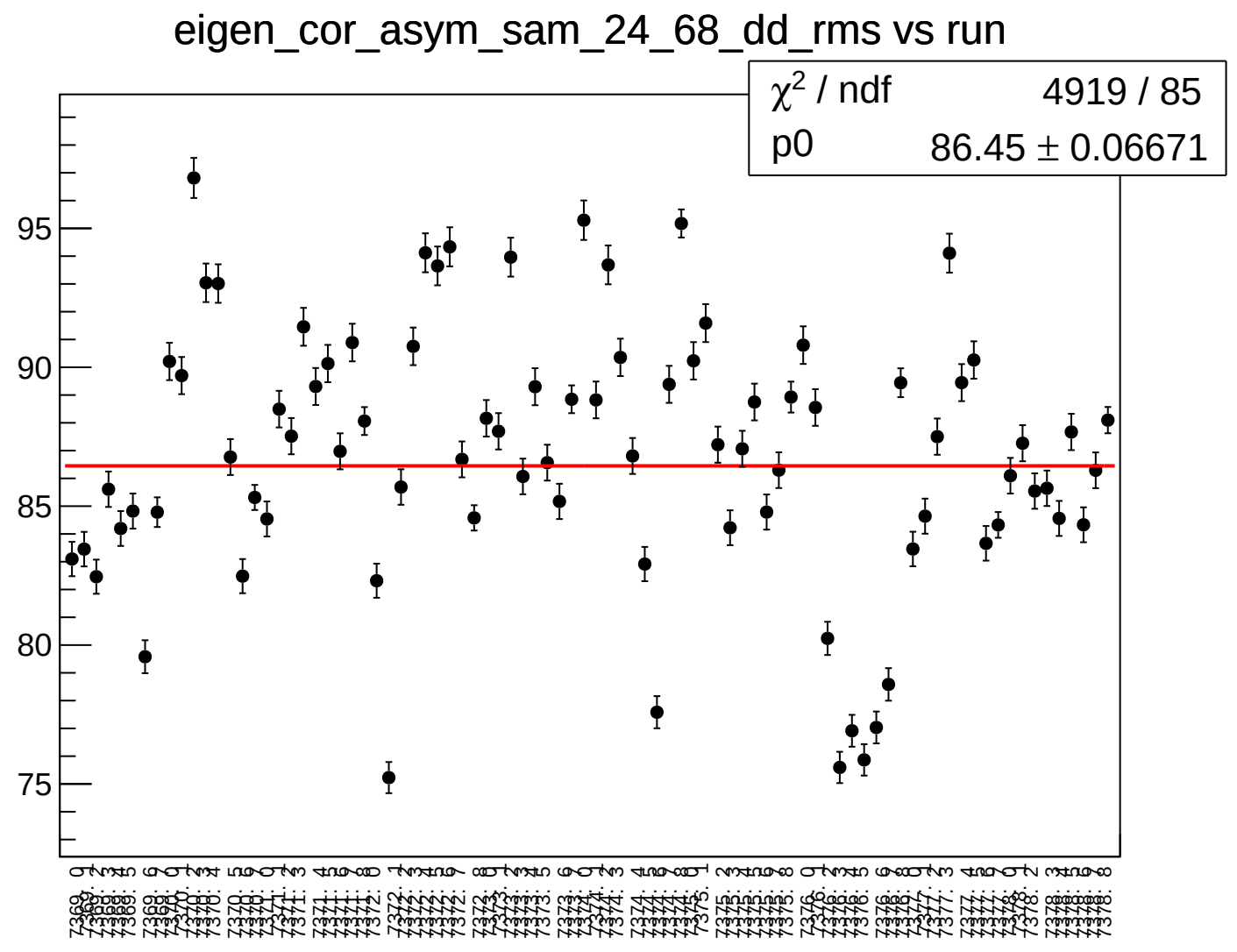

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 4919 / 85
p0 86.45 ± 0.06671
95
90
85
80
75

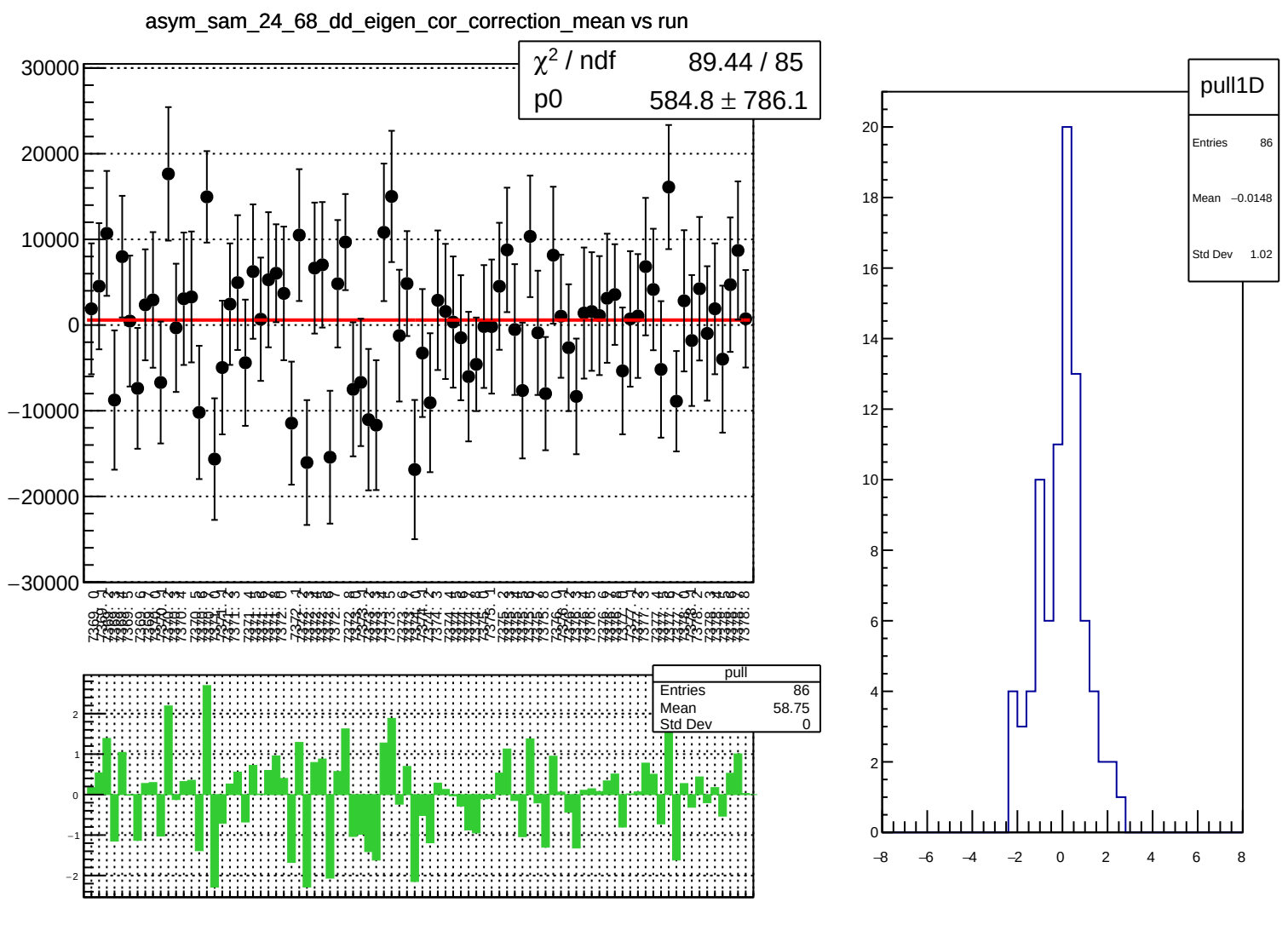

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 89.44 / 85
p0 584.8 ± 786.1
pull
Entries 86
Mean 58.75
Std Dev 0

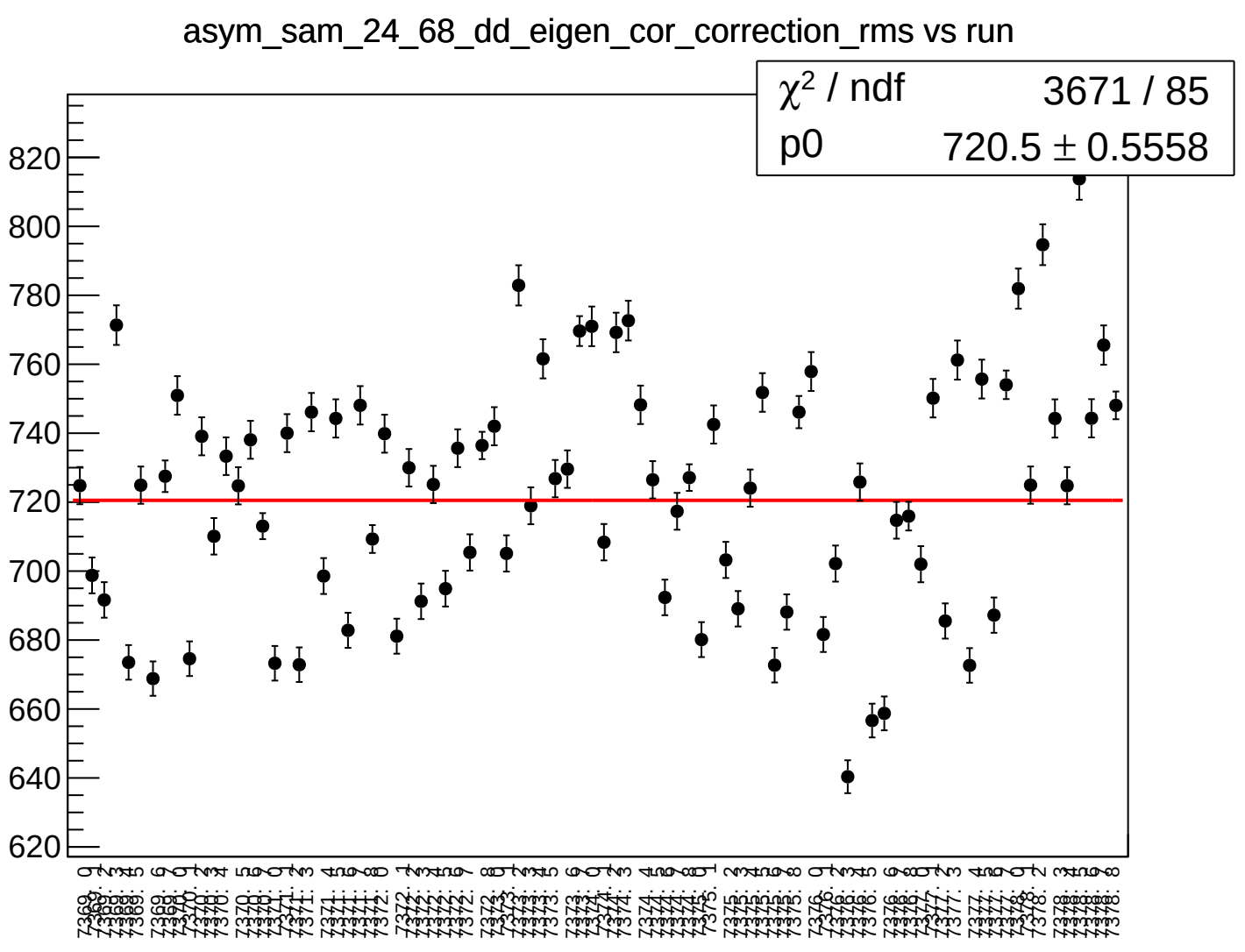

pull1D
Entries 86
Mean −0.0148
Std Dev 1.02

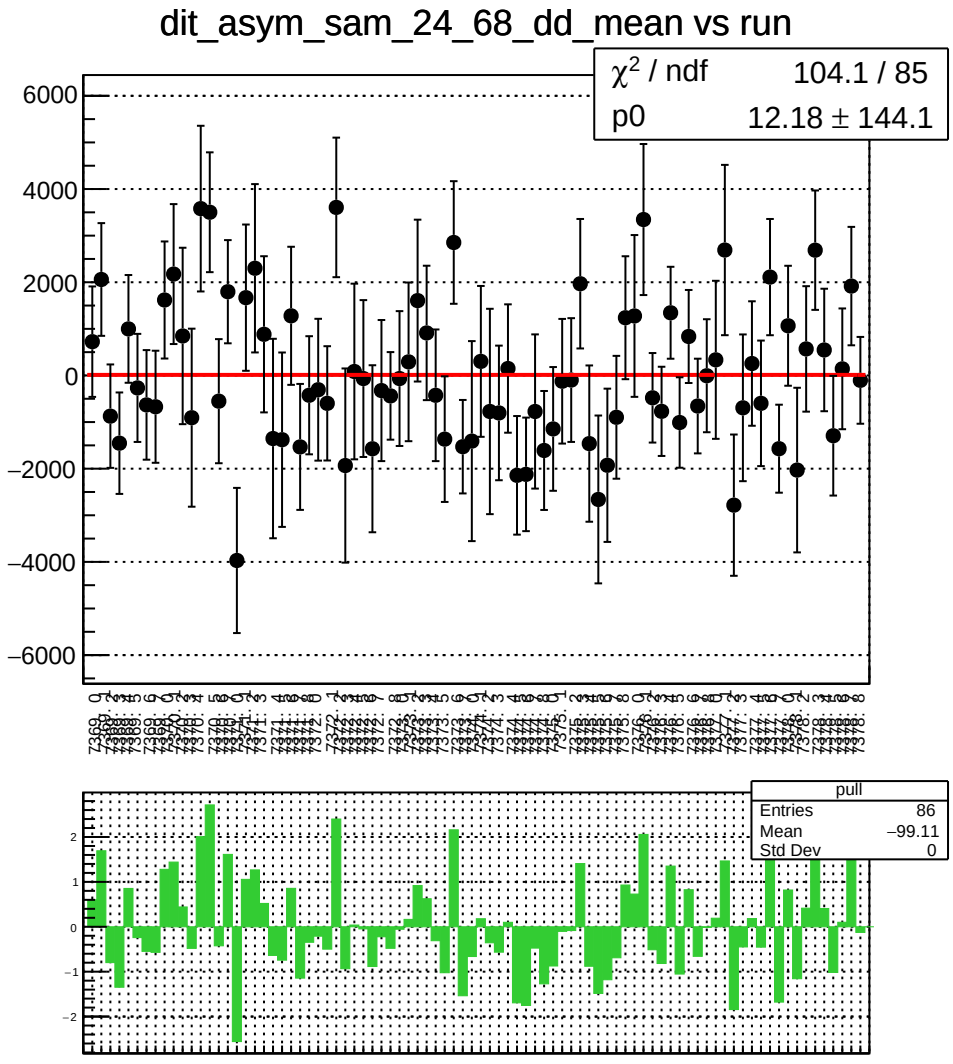

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 3671 / 85
p0 720.5 ± 0.5558
820
800
780
760
740
720
700
680
660
640
620

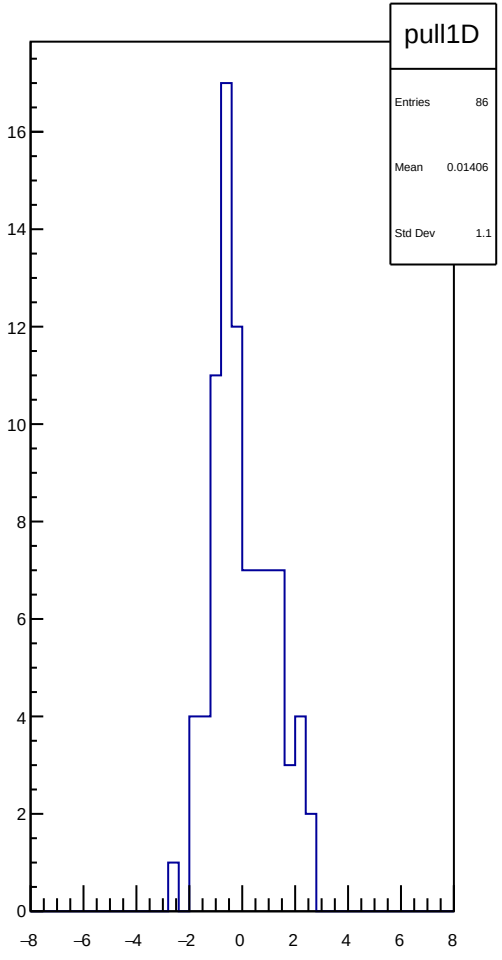

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 86.24 / 85
p0 80.27 ± 94.35
pull
Entries 86
Mean −90.07
Std Dev 0
pull1D
Entries 86
Mean 0.01373
Std Dev 1.001

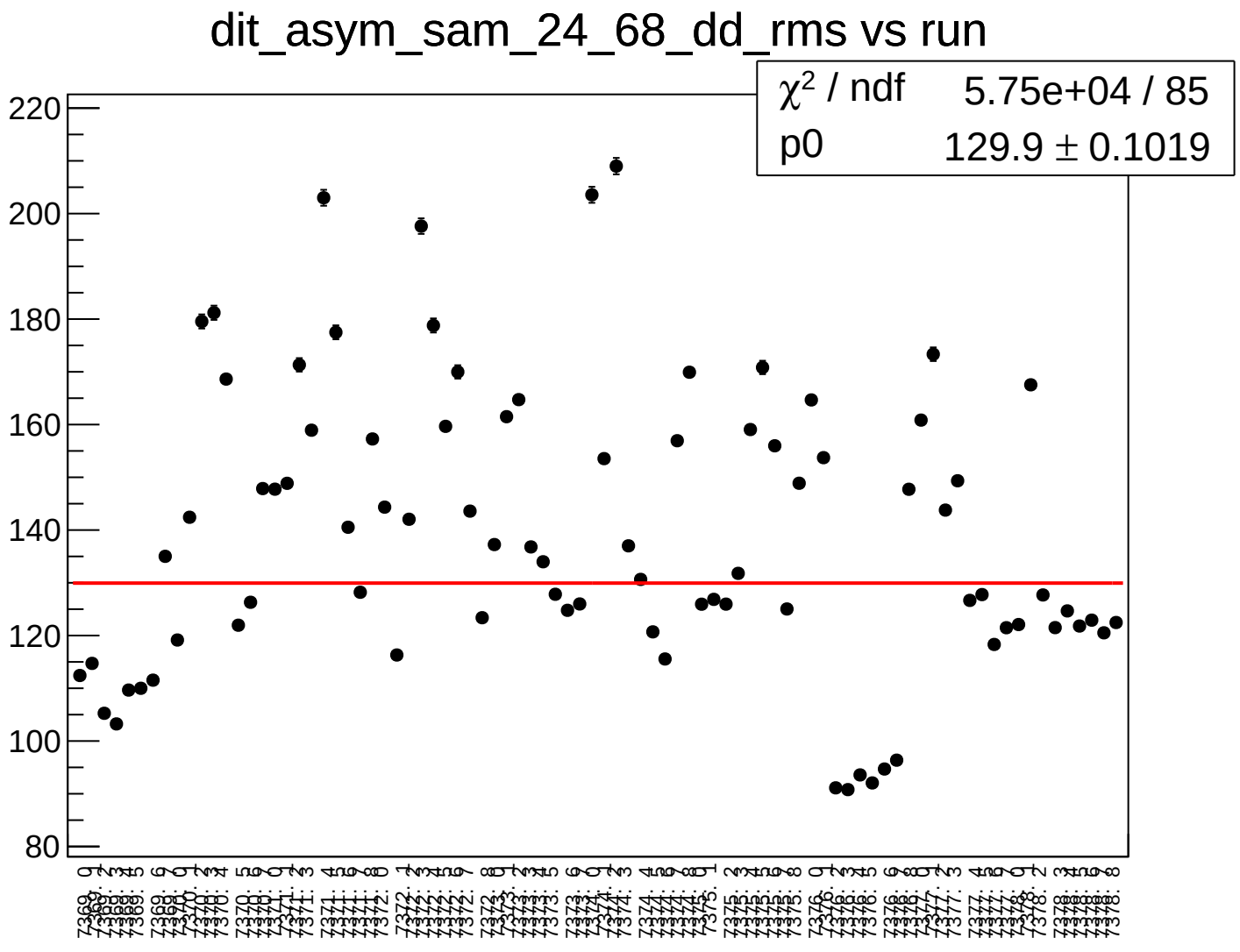

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 4919 / 85
p0 86.45 ± 0.06671
95
90
85
80
75

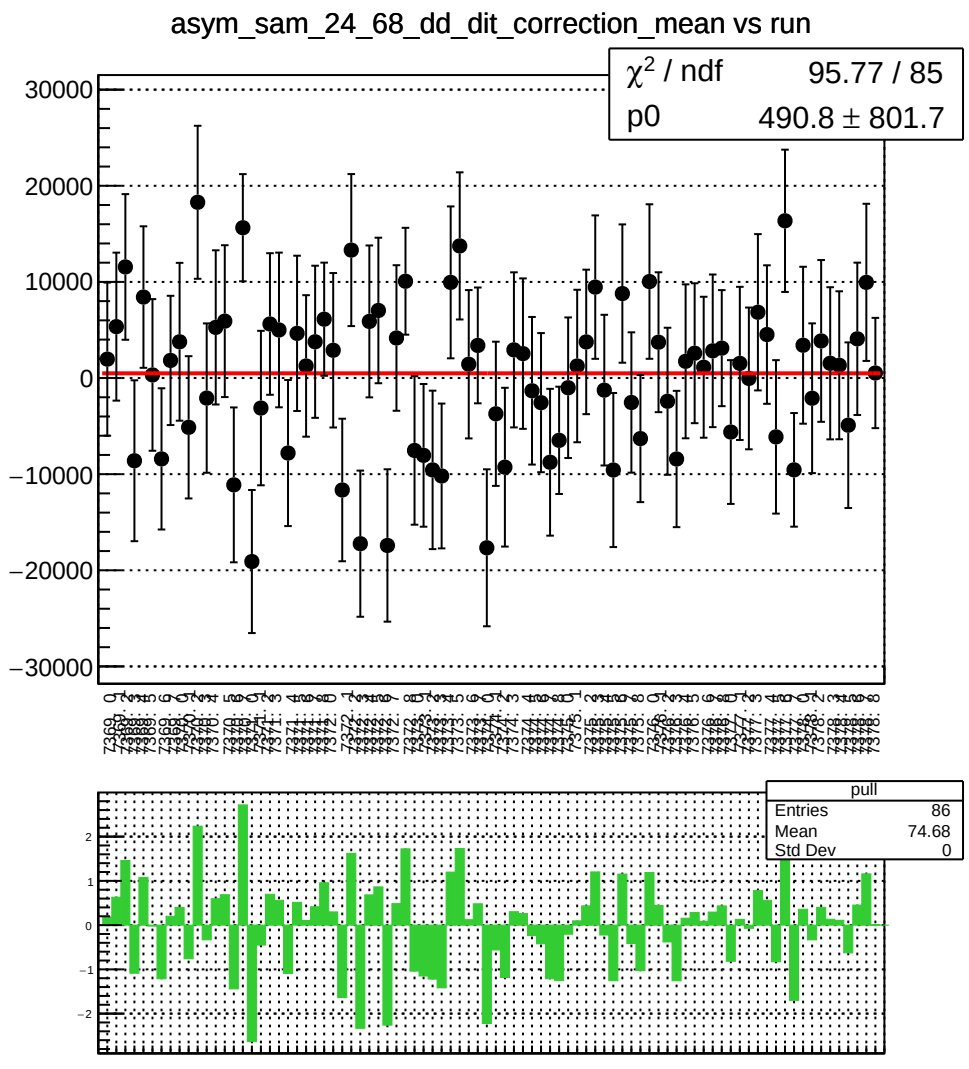

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.44 / 85
p0 584.8 ± 786.1
pull
Entries 86
Mean 58.75
Std Dev 0
pull1D
Entries 86
Mean −0.0148
Std Dev 1.02

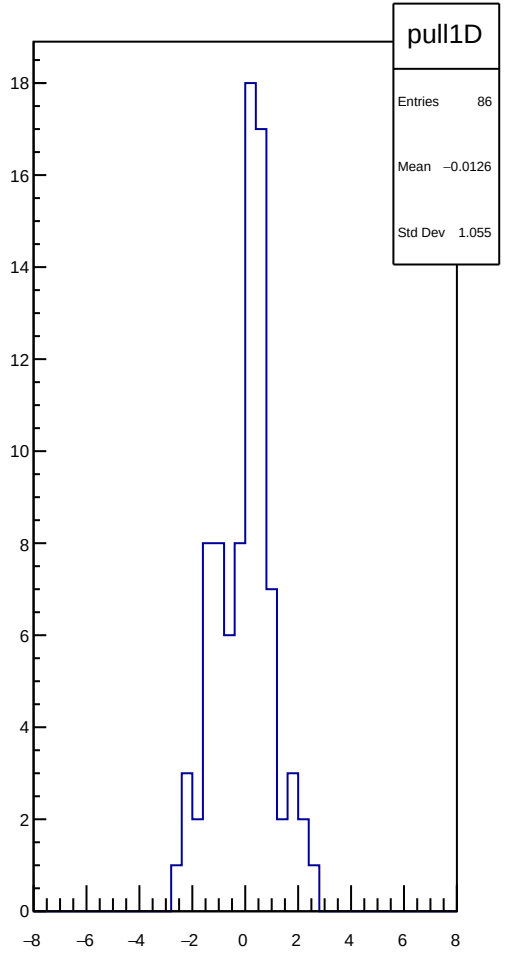

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 3671 / 85
p0 720.5 ± 0.5558
820
800
780
760
740
720
700
680
660
640
620

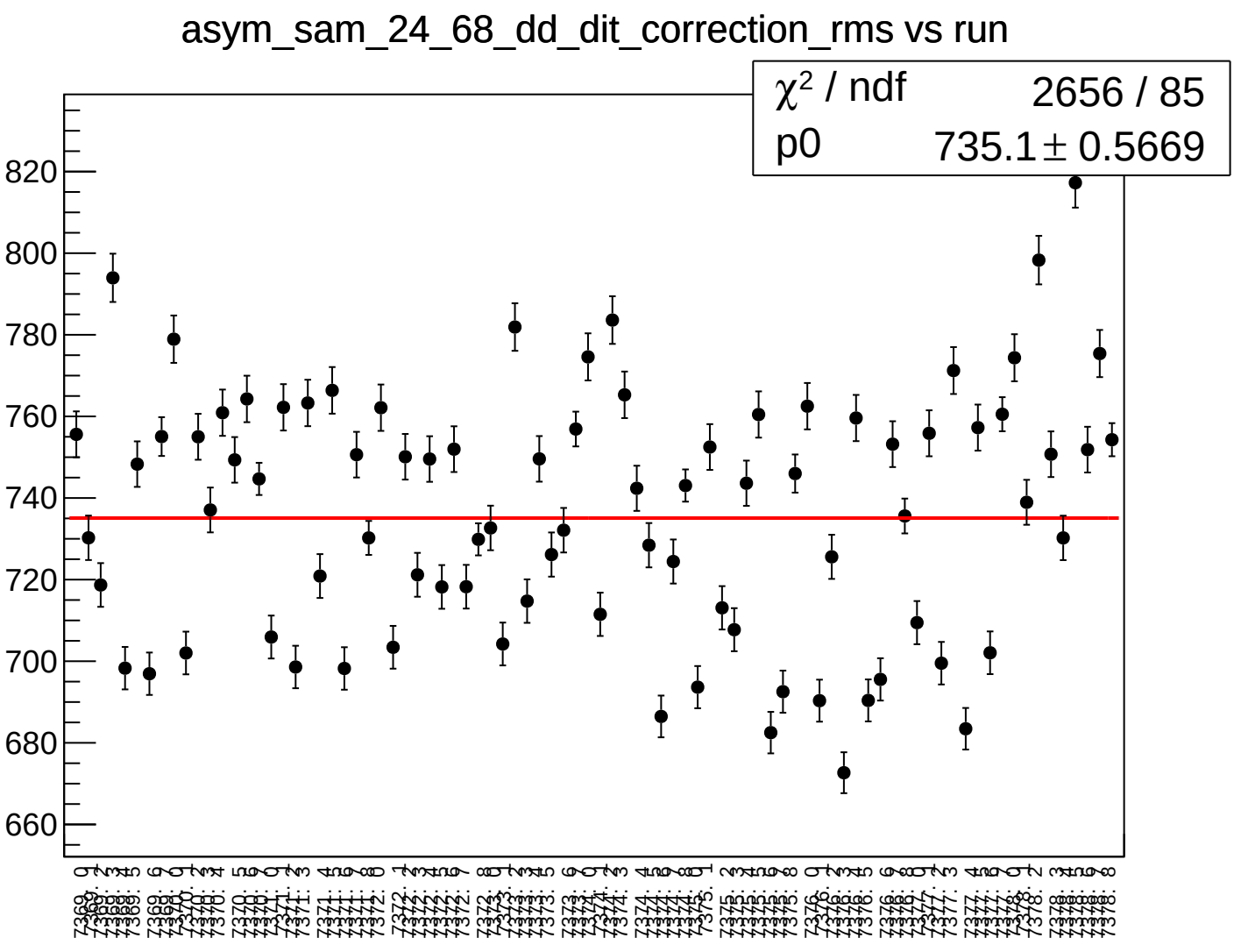

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 104.1 / 85
p0 12.18 ± 144.1
pull
Entries 86
Mean −99.11
Std Dev 0

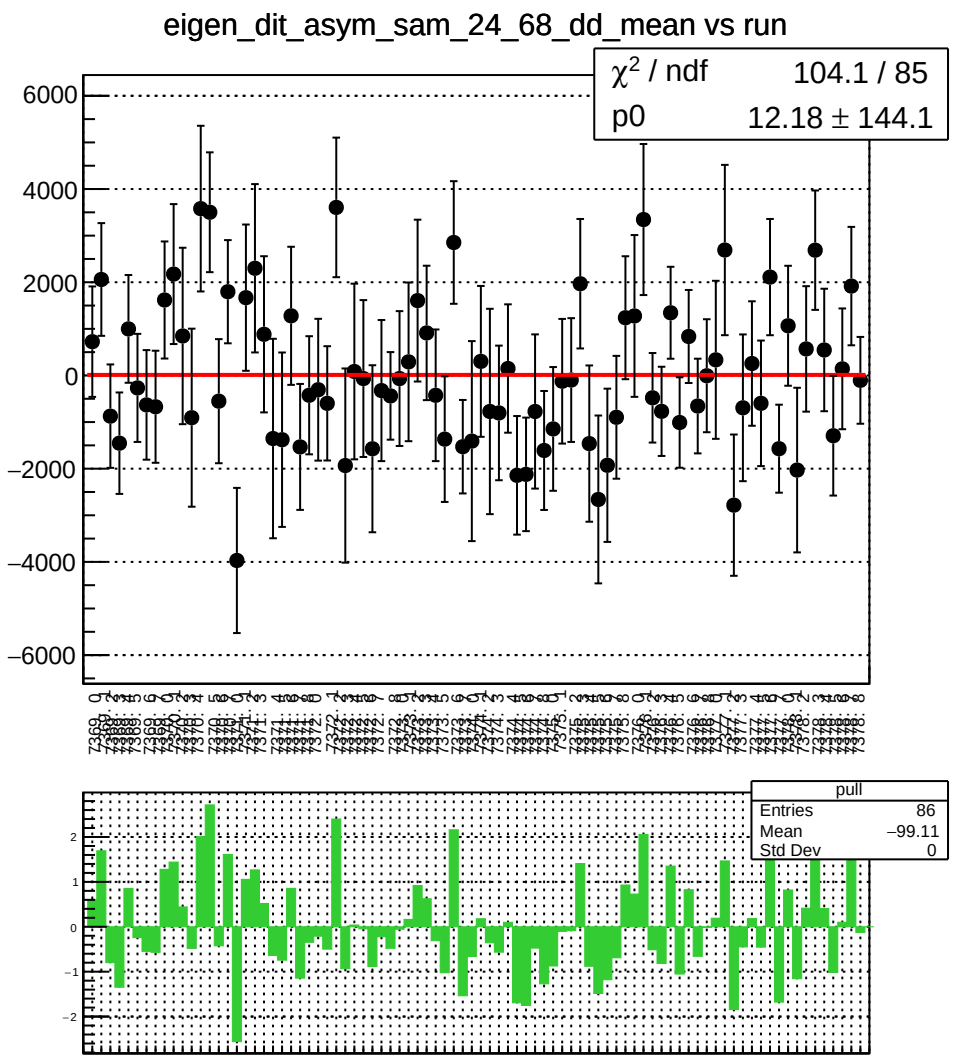

pull1D
Entries 86
Mean 0.01406
Std Dev 1.1

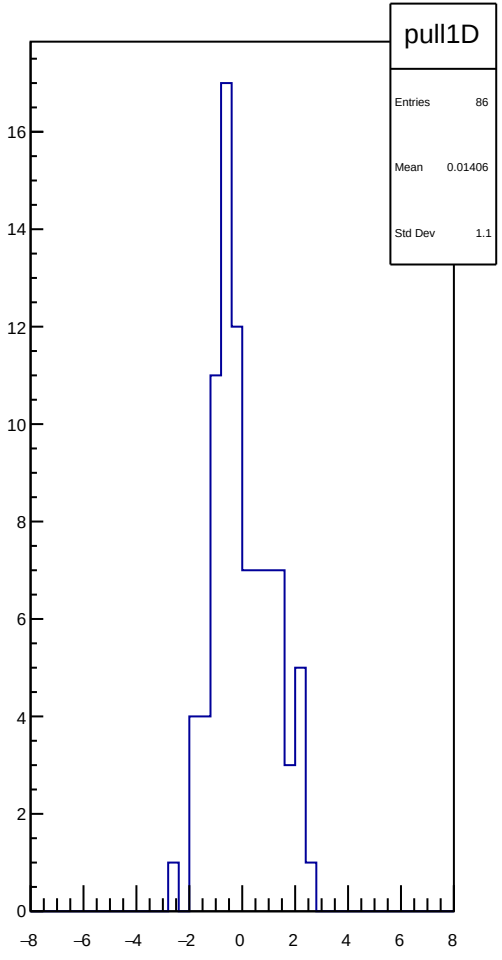

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 5.75e+04 / 85
p0 129.9 ± 0.1019
220
200
180
160
140
120
100
80

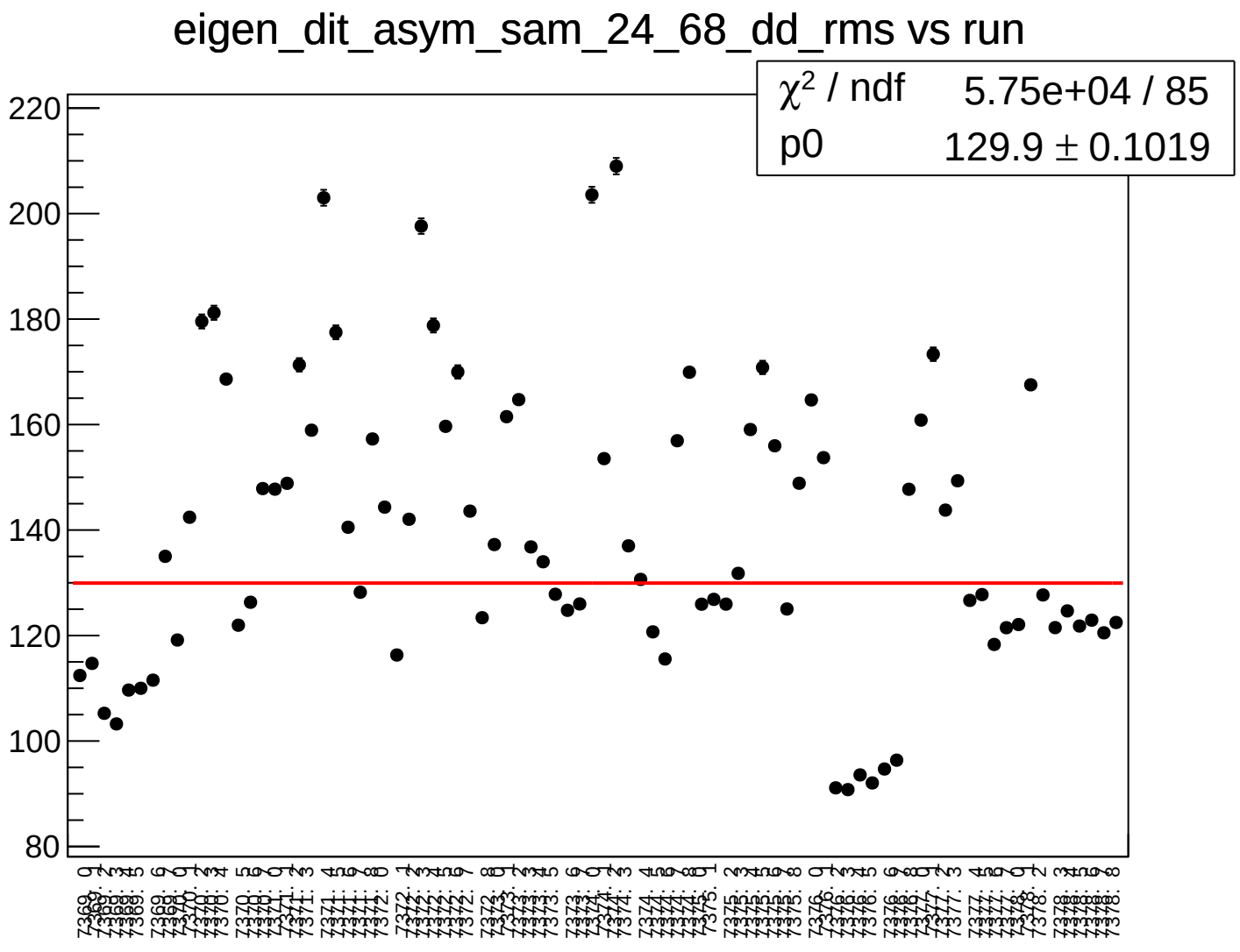

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 95.77 / 85
p0 490.8 ± 801.7
pull
Entries 86
Mean 74.68
Std Dev 0

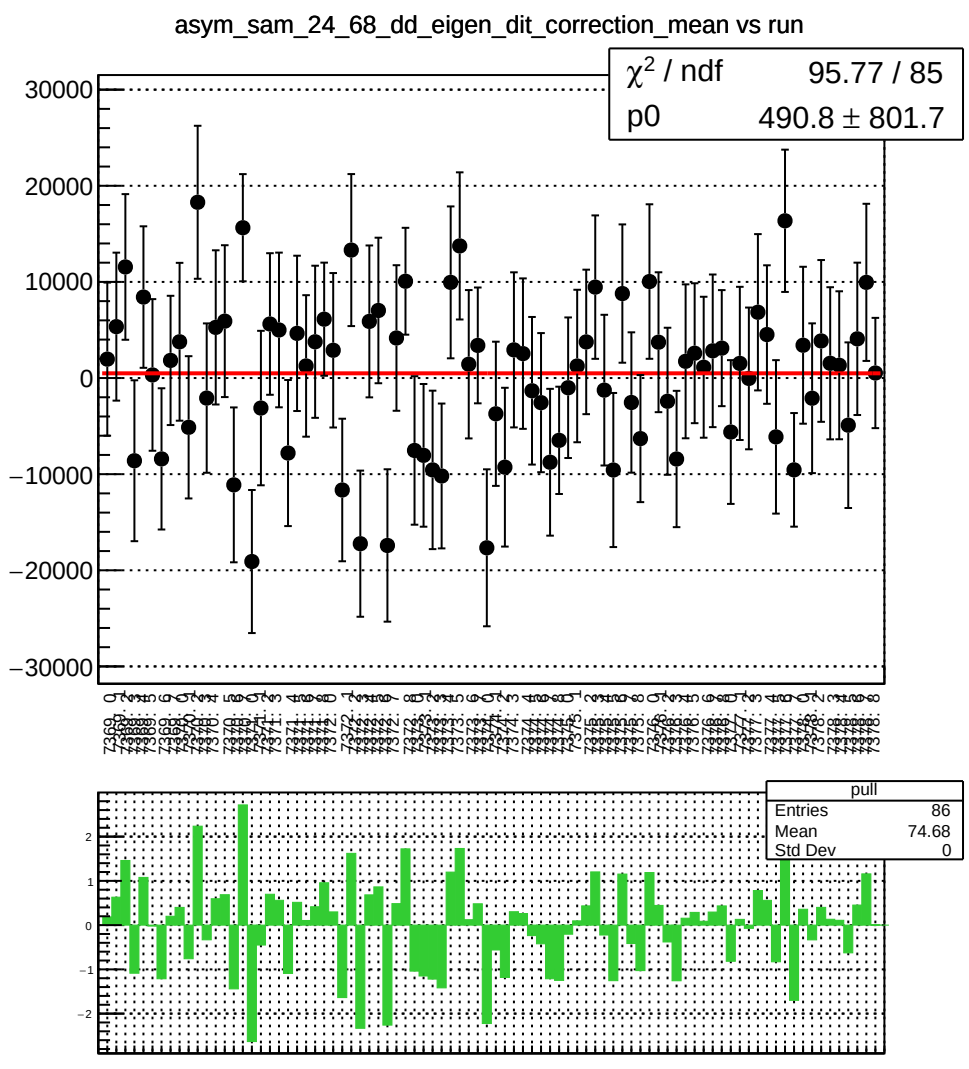

pull1D
Entries 86
Mean −0.0126
Std Dev 1.055

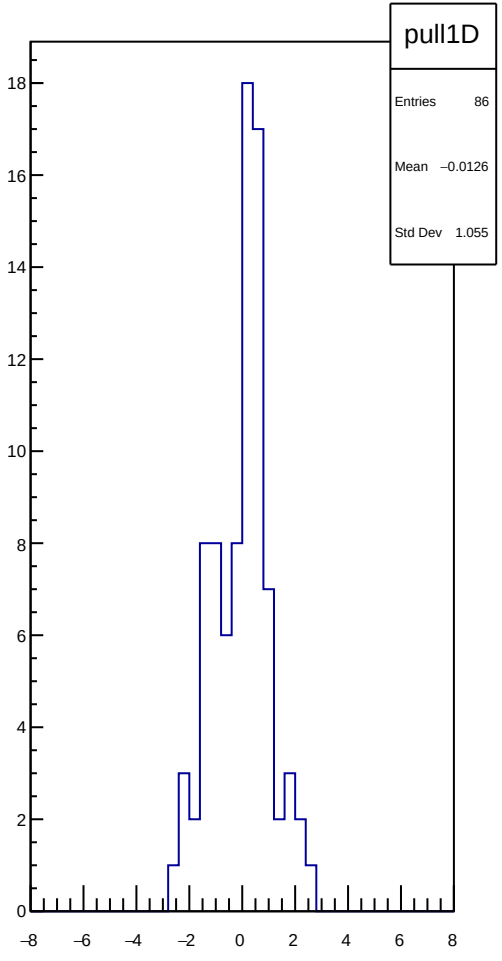

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 2656 / 85
p0 735.1 ± 0.5669
820
800
780
760
740
720
700
680
660

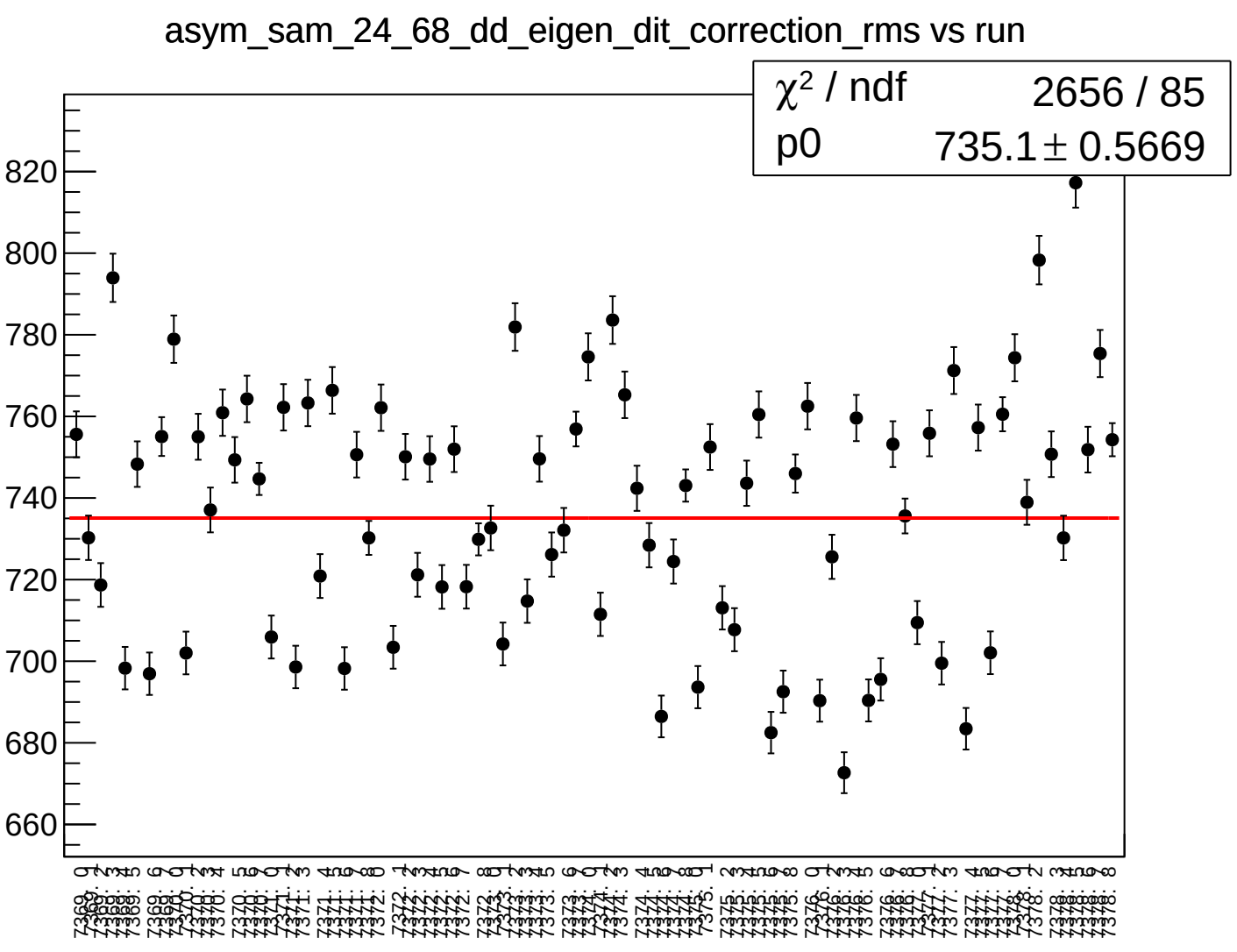

eigen_dit_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 104.1 / 85
p0 12.18 ± 144.1
pull
Entries 86
Mean −99.11
Std Dev 0

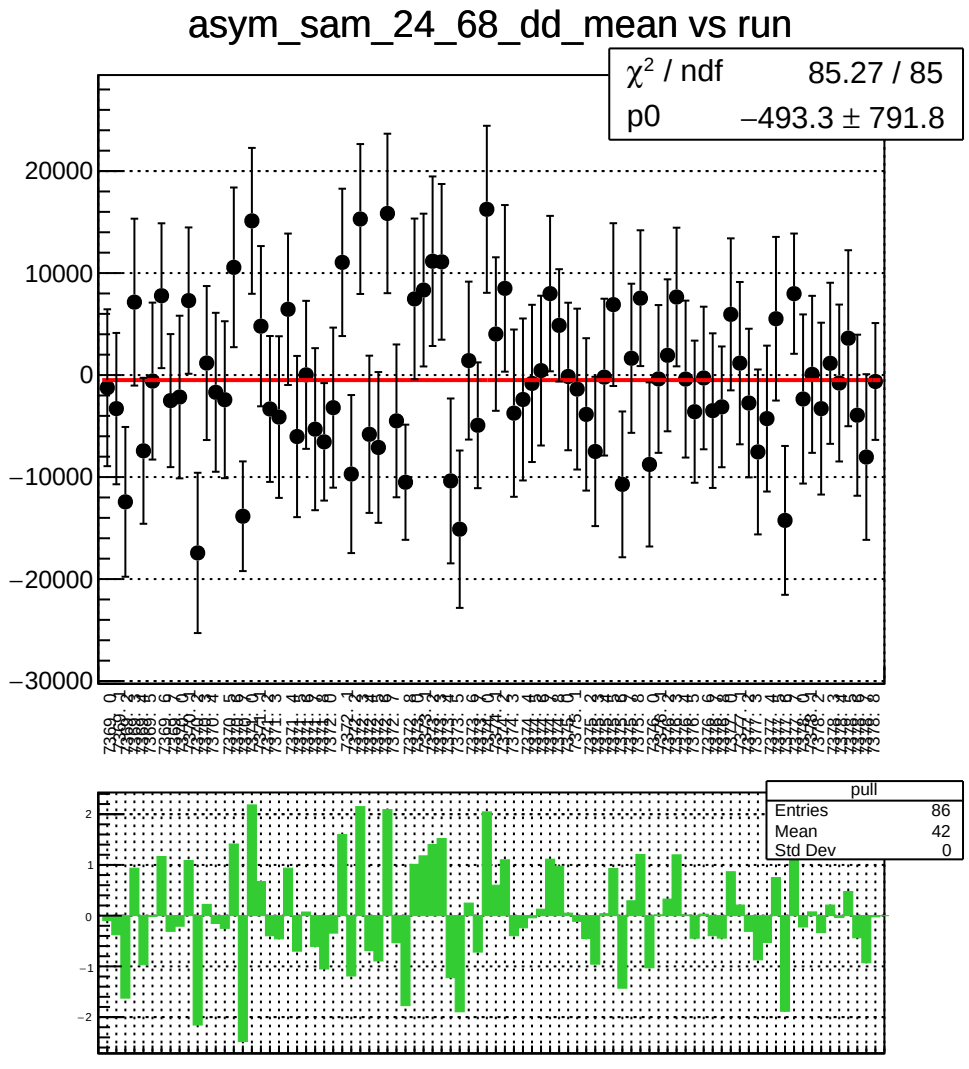

pull1D
Entries 86
Mean 0.01406
Std Dev 1.1

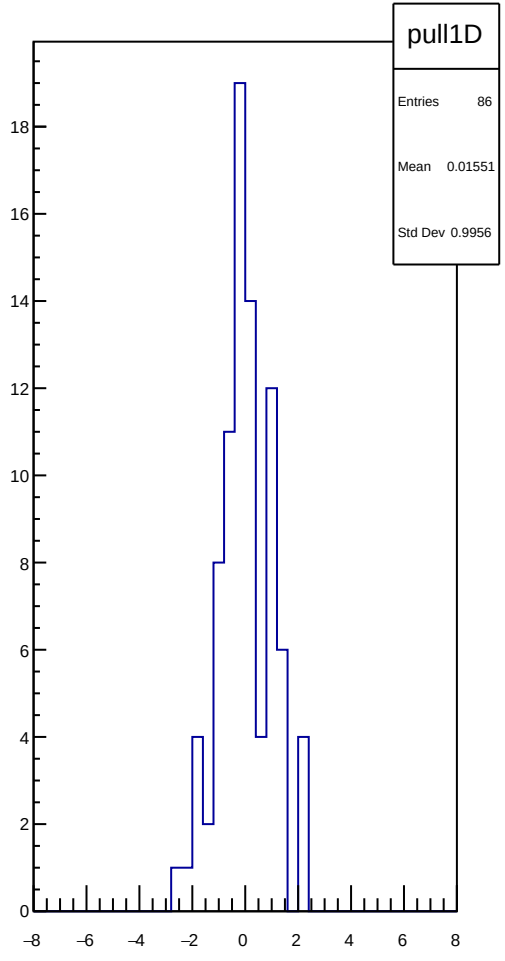

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 5.75e+04 / 85
p0 129.9 ± 0.1019
220
200
180
160
140
120
100
80

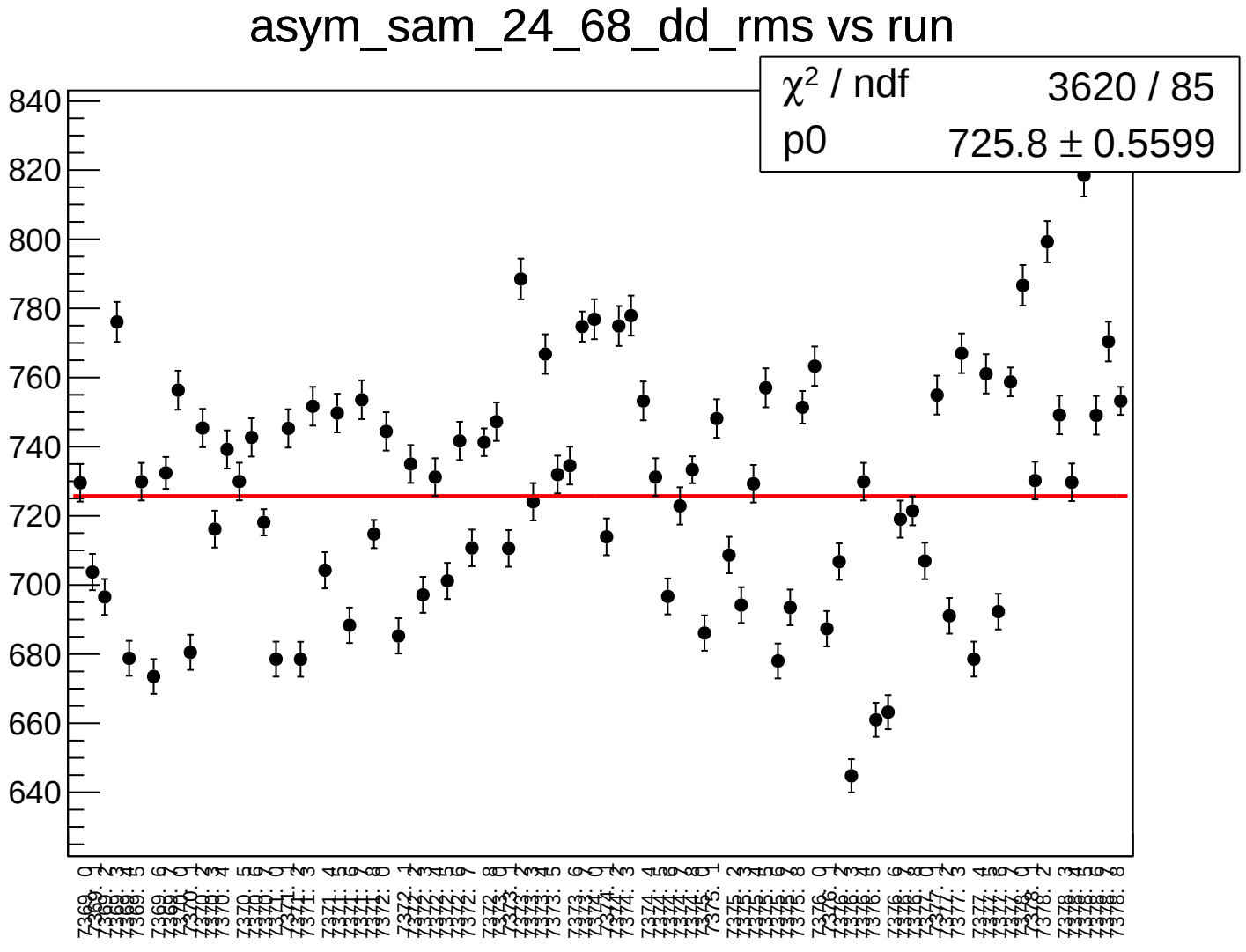

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.77 / 85
p0 490.8 ± 801.7
pull
Entries 86
Mean 74.68
Std Dev 0

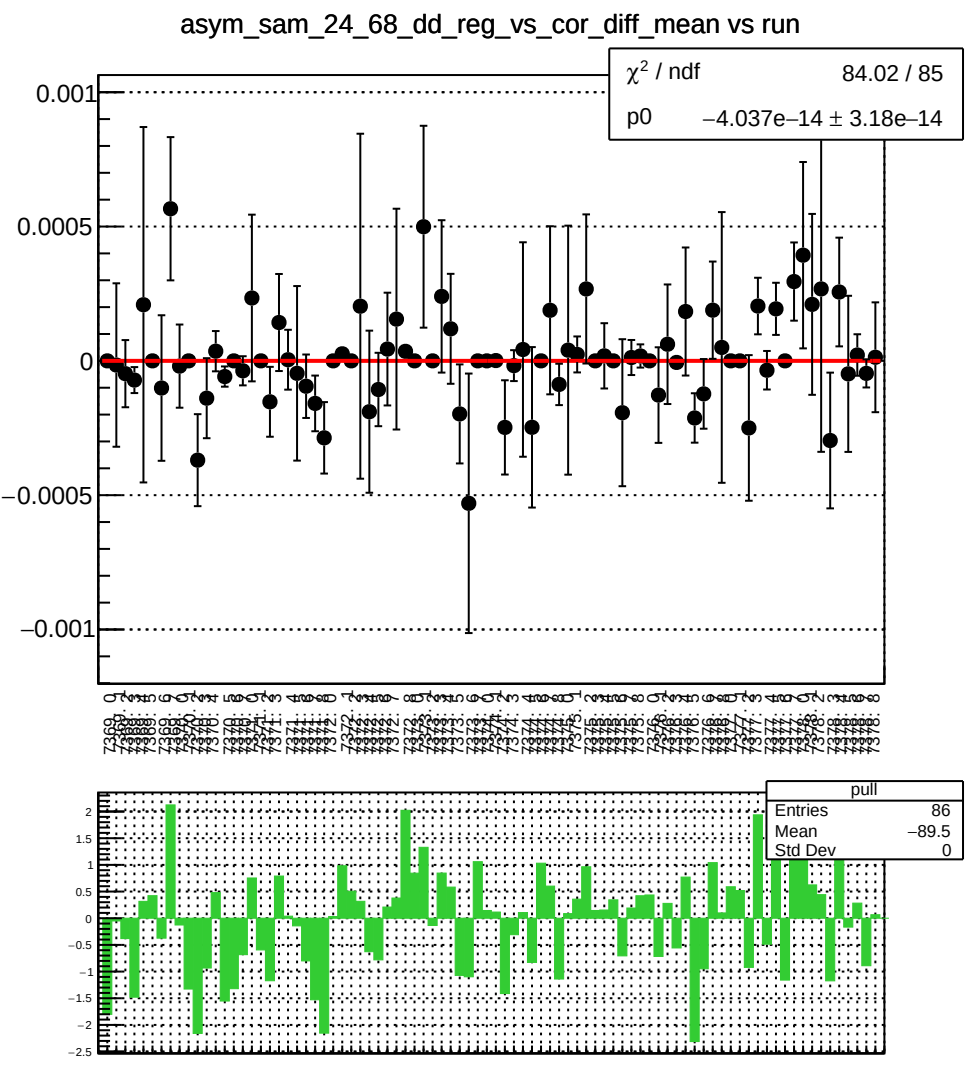

pull1D
Entries 86
Mean −0.0126
Std Dev 1.055

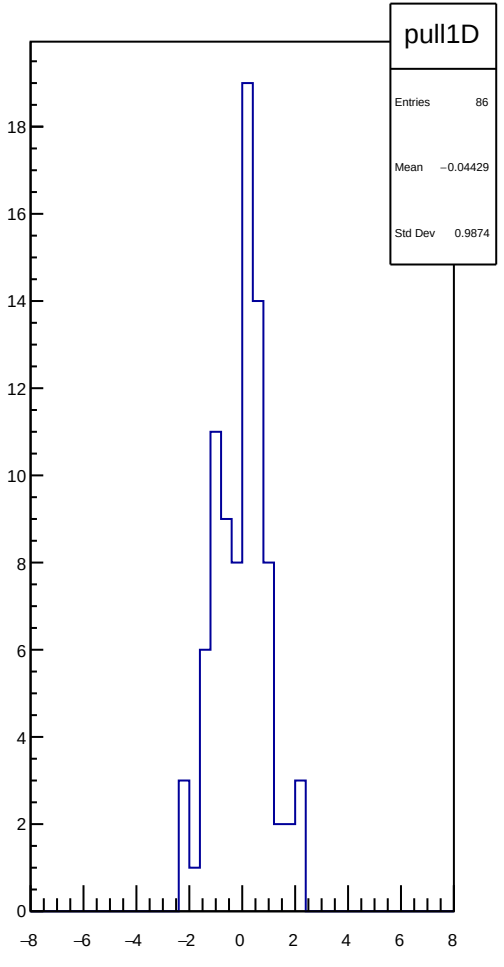

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2656 / 85
p0 735.1 ± 0.5669
820
800
780
760
740
720
700
680
660

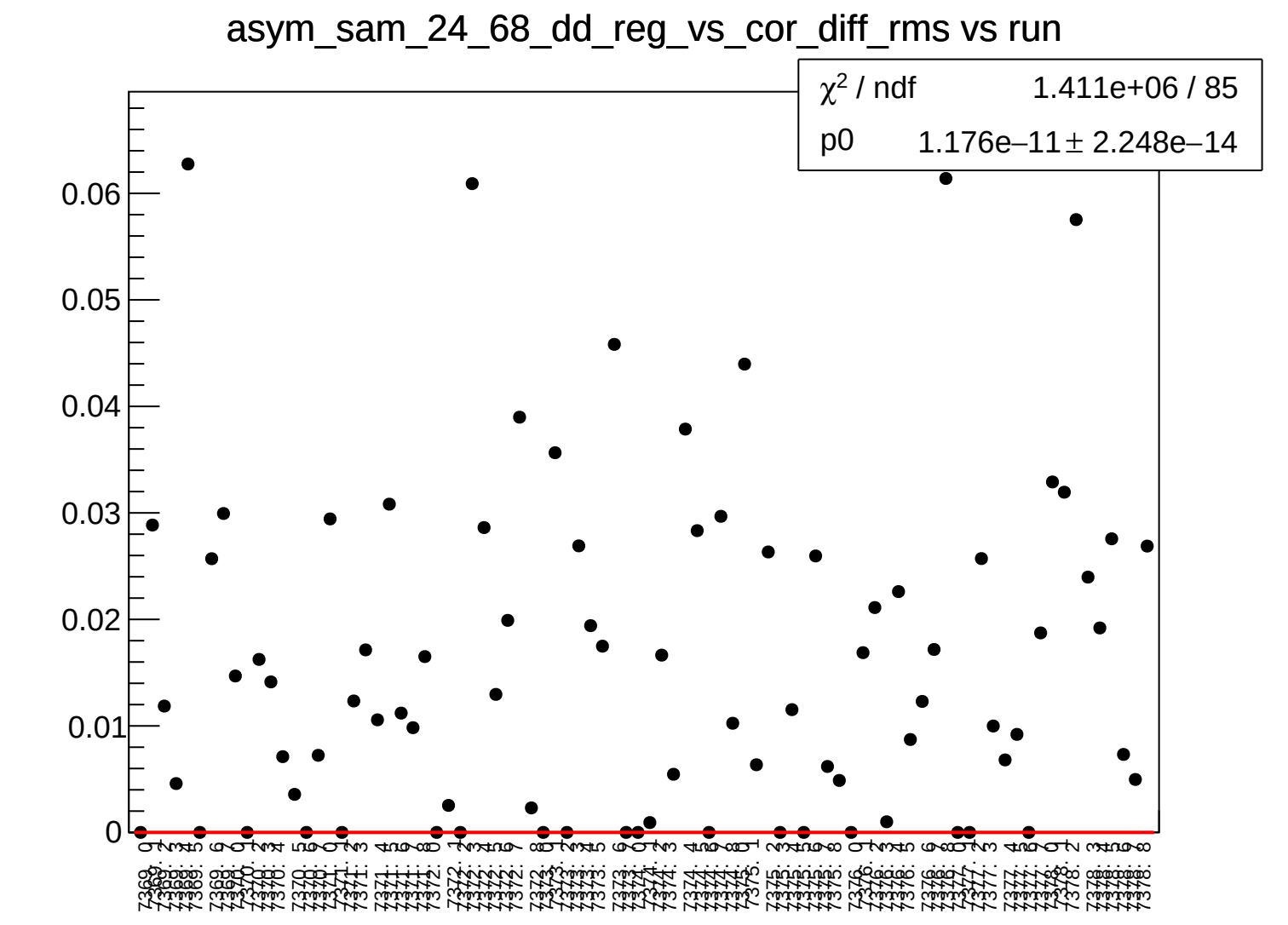

asym_sam_24_68_dd_mean vs run
χ² / ndf 85.27 / 85
p0 −493.3 ± 791.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 42
Std Dev 0
2
1
0
−1
−2

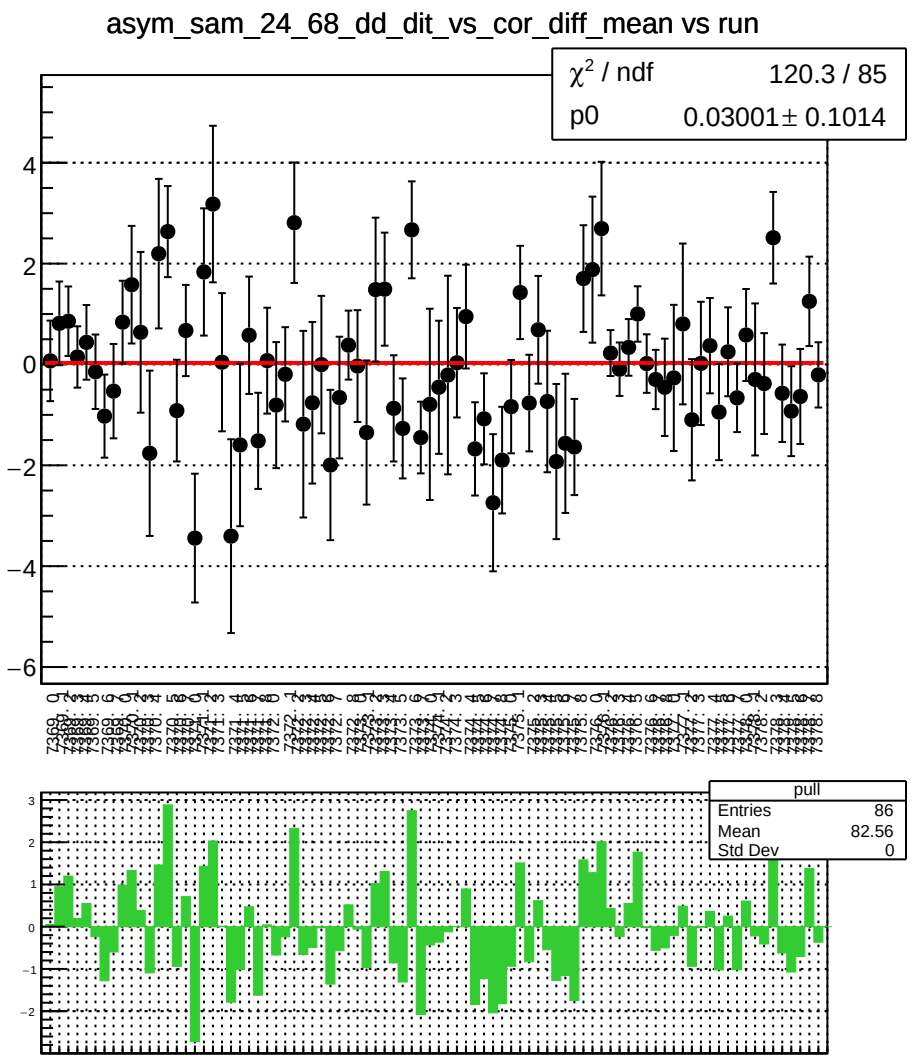

pull1D
Entries 86
Mean 0.01551
Std Dev 0.9956
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

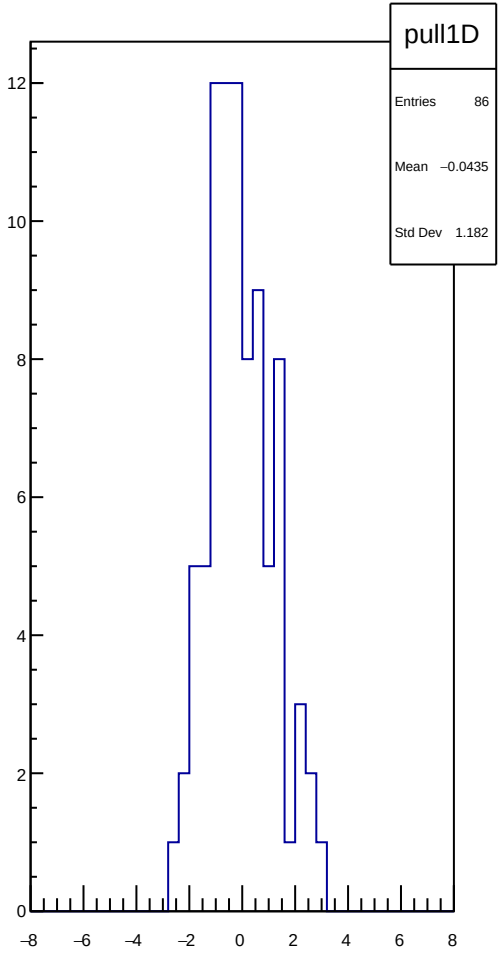

asym_sam_24_68_dd_rms vs run
χ² / ndf 3620 / 85
p0 725.8 ± 0.5599
840
820
800
780
760
740
720
700
680
660
640

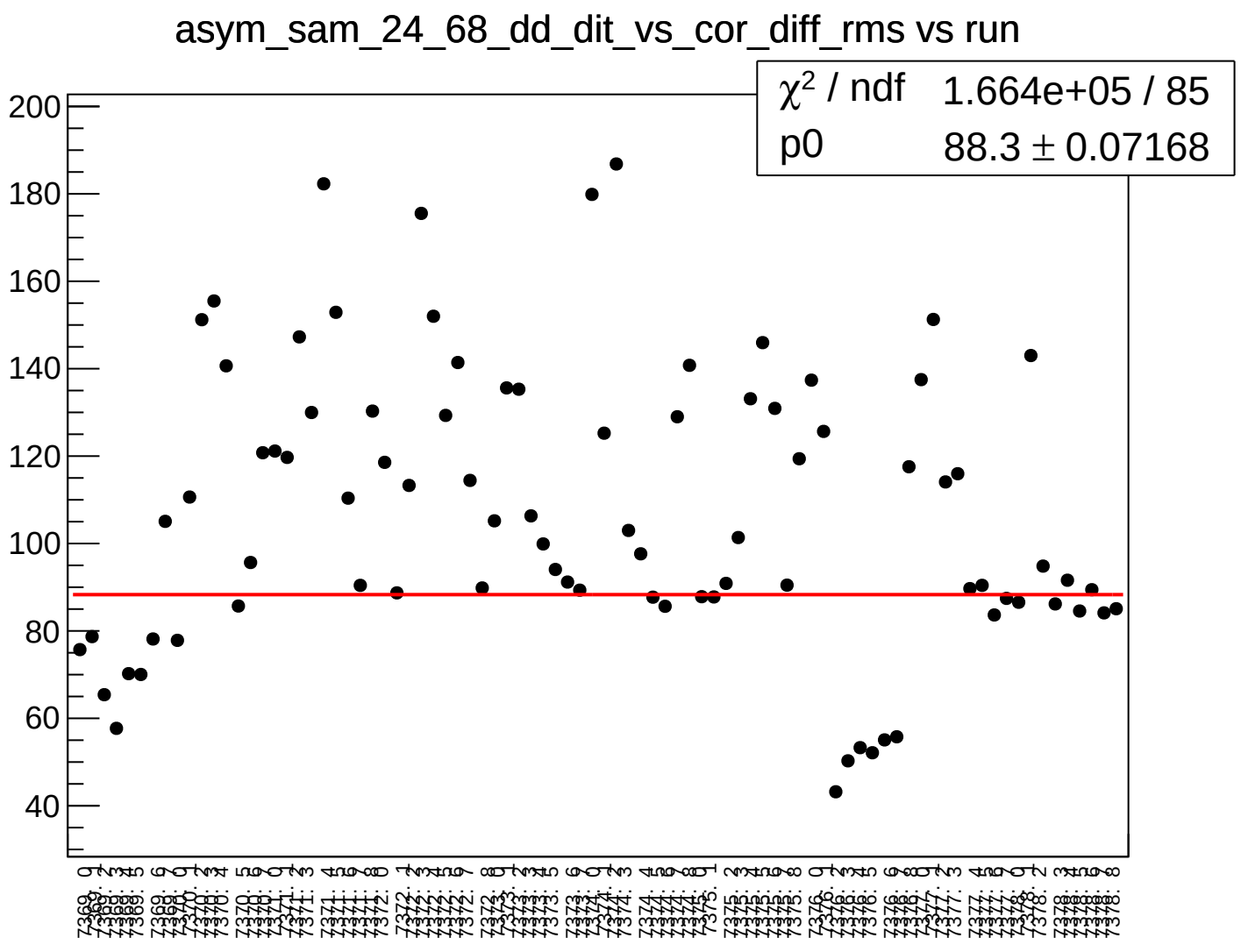

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.02 / 85
p0 −4.037e−14 ± 3.18e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean −89.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

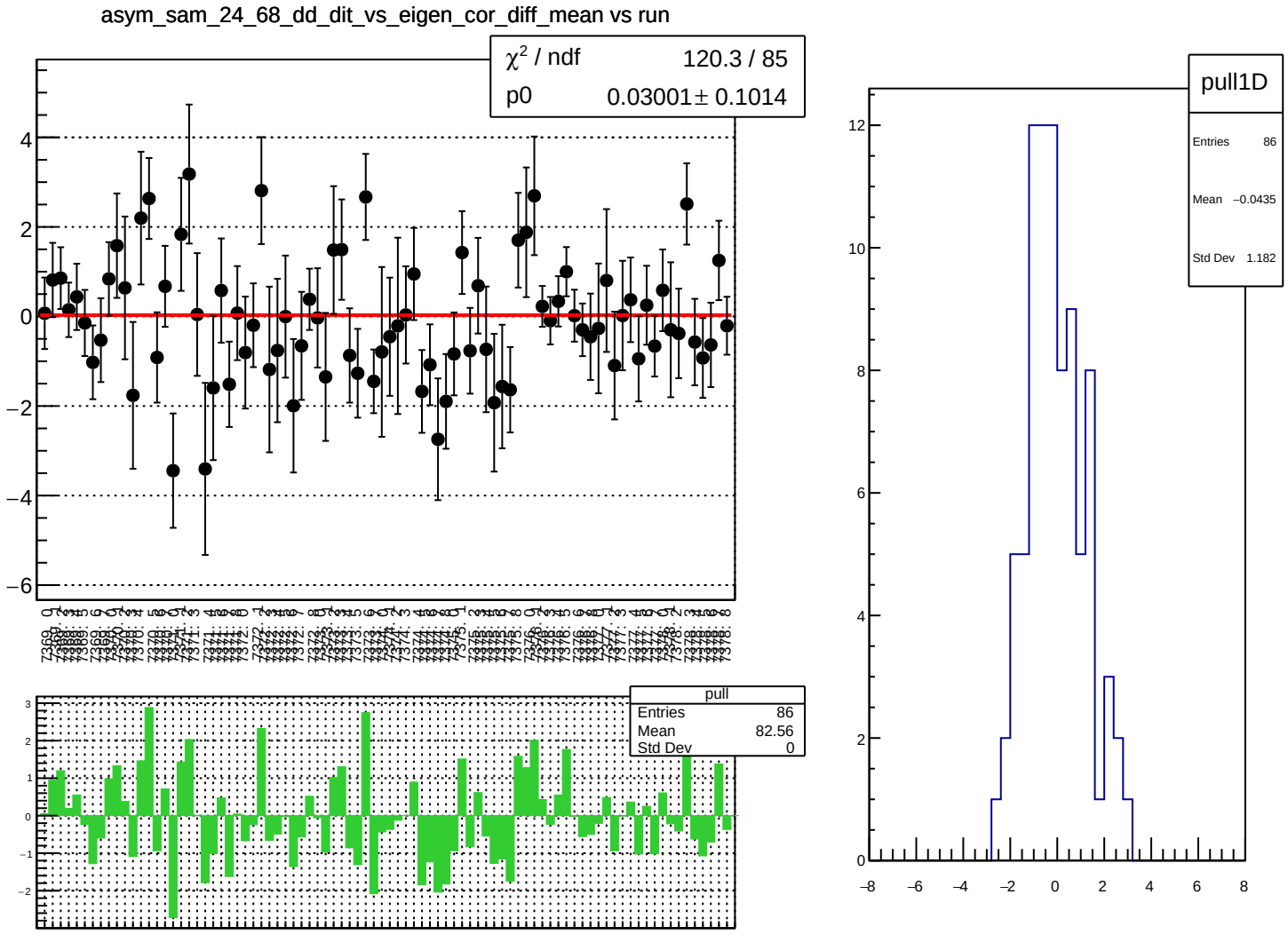

pull1D
Entries 86
Mean −0.04429
Std Dev 0.9874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

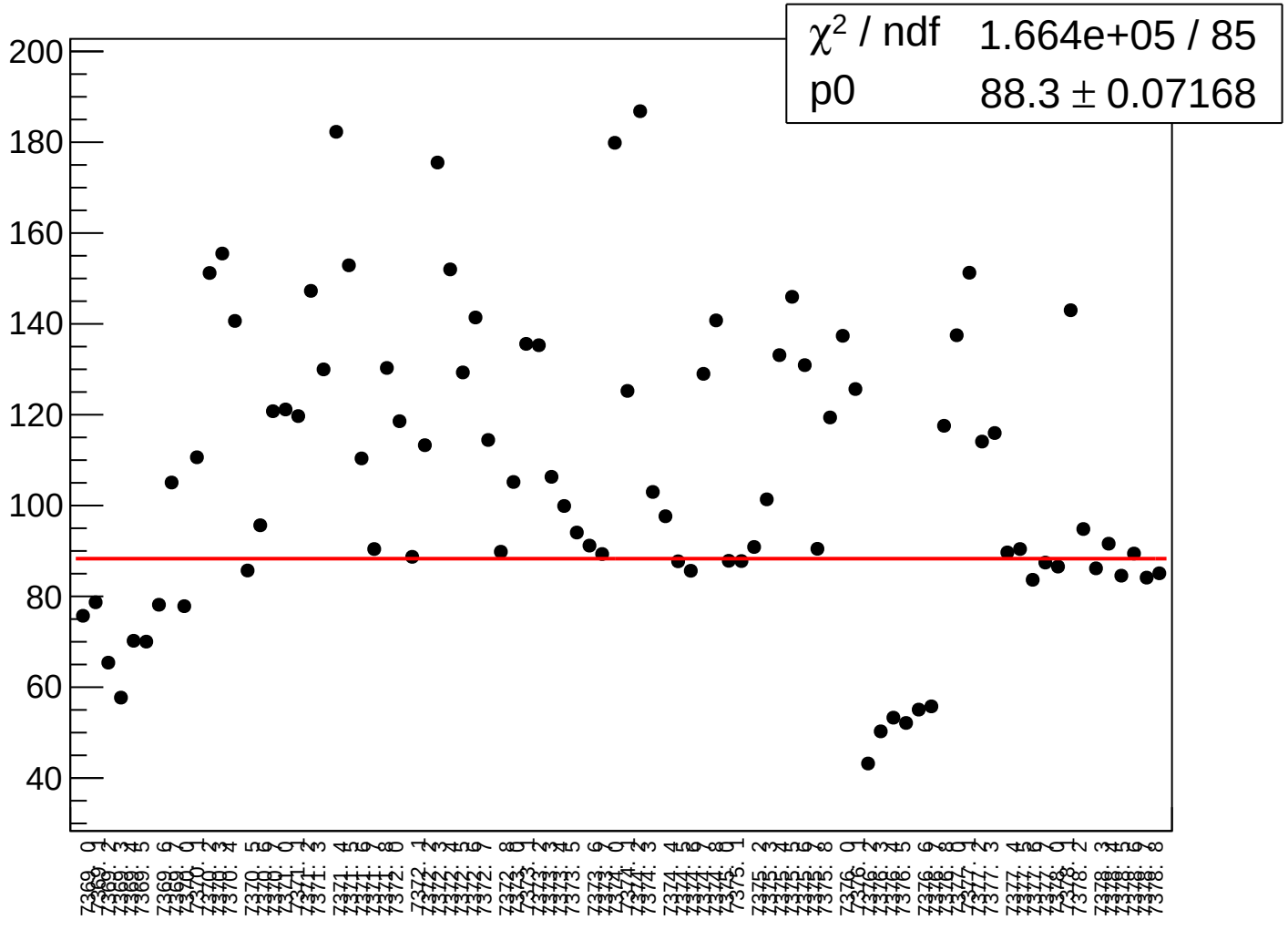

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.411e+06 / 85
p0 1.176e−11 ± 2.248e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

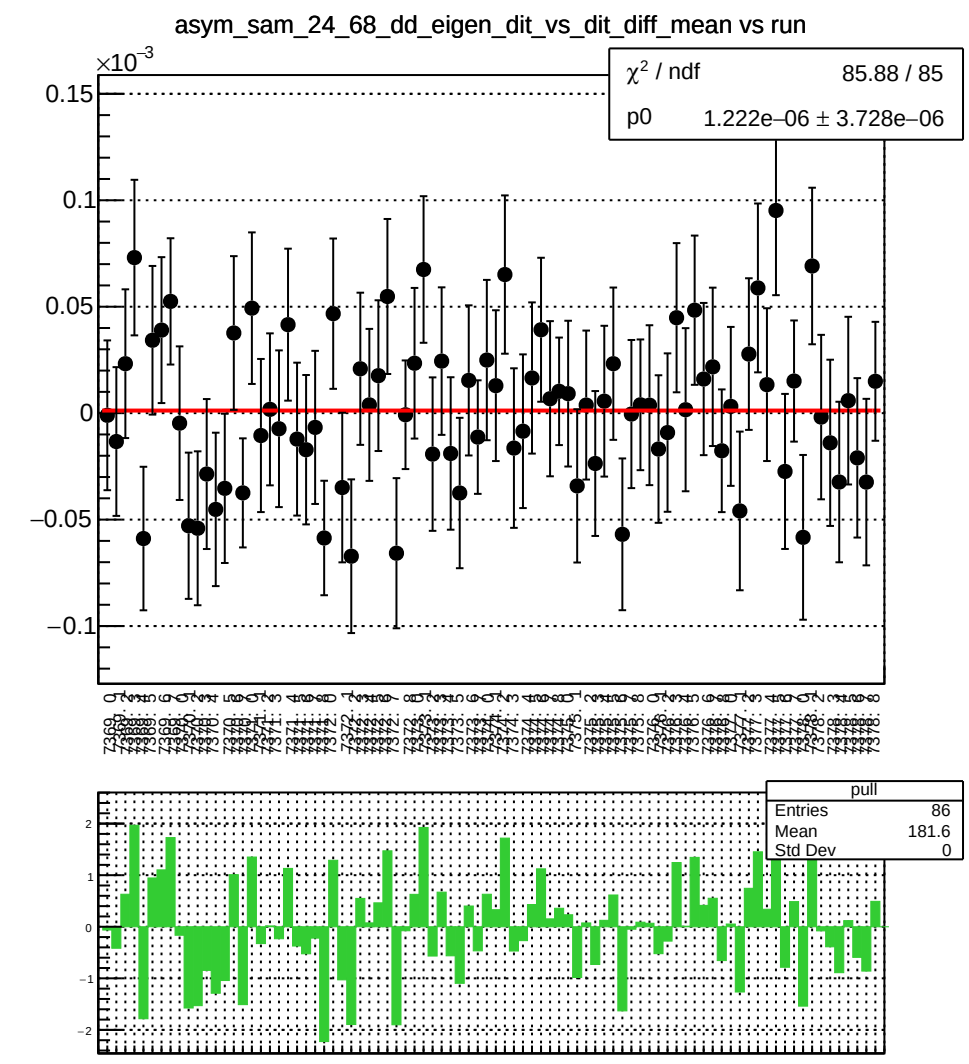

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 120.3 / 85
p0 0.03001 ± 0.1014
pull
Entries 86
Mean 82.56
Std Dev 0

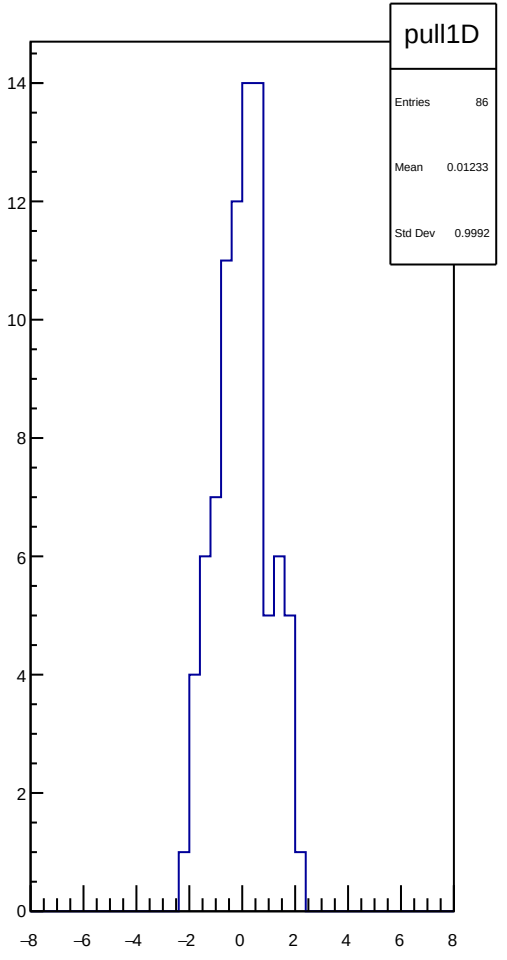

pull1D
Entries 86
Mean −0.0435
Std Dev 1.182

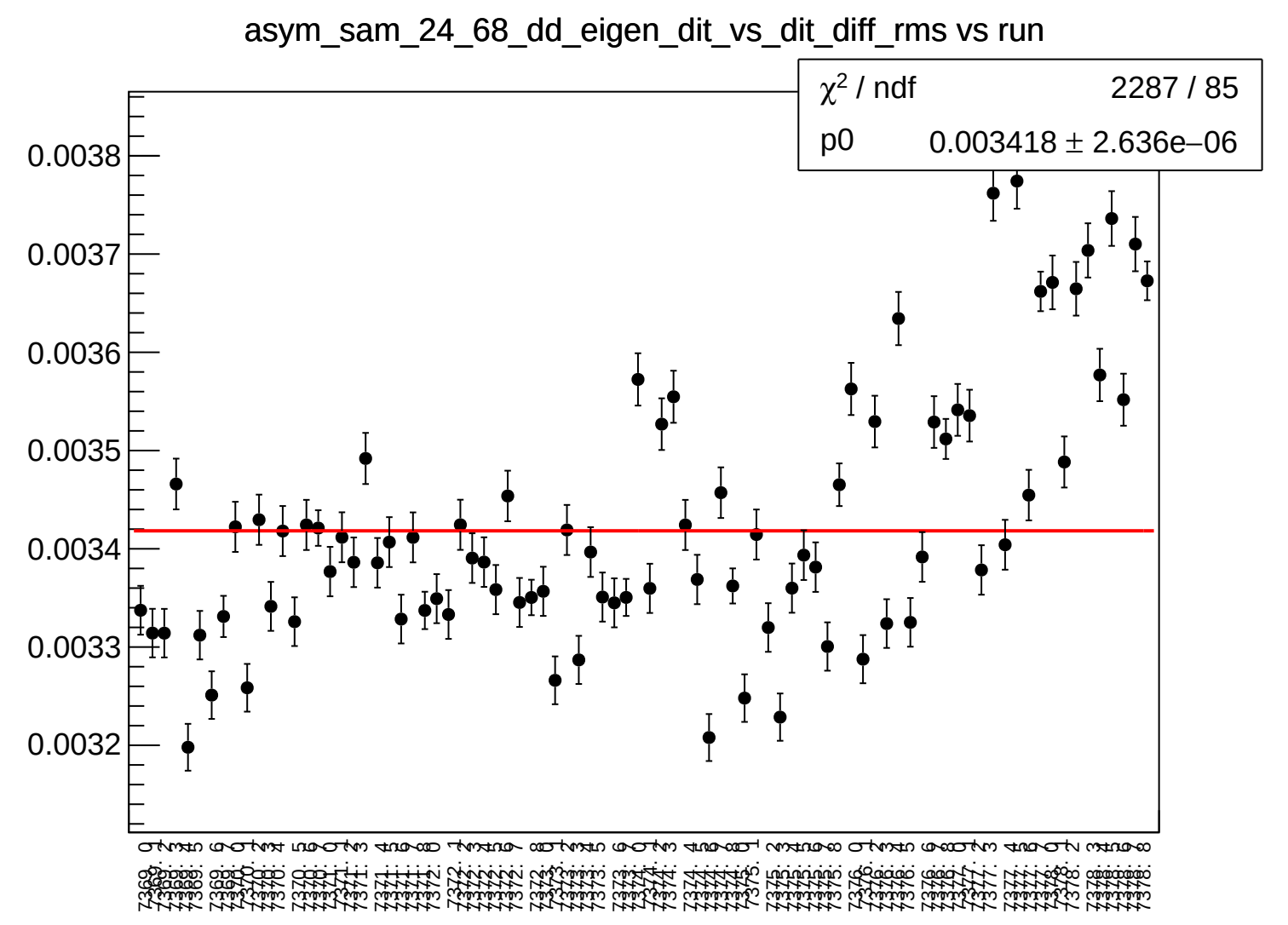

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.664e+05 / 85
p0 88.3 ± 0.07168
200
180
160
140
120
100
80
60
40

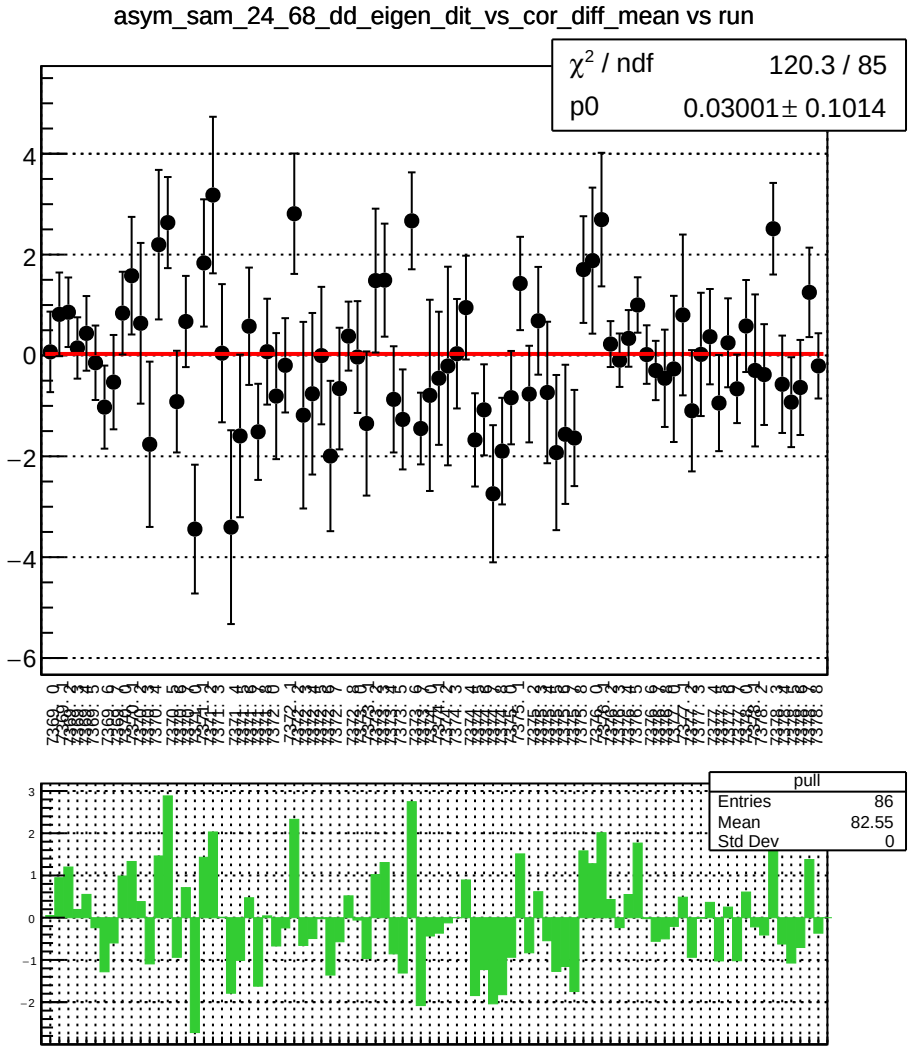

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.3 / 85
p0 0.03001 ± 0.1014
pull
Entries 86
Mean 82.56
Std Dev 0
pull1D
Entries 86
Mean −0.0435
Std Dev 1.182

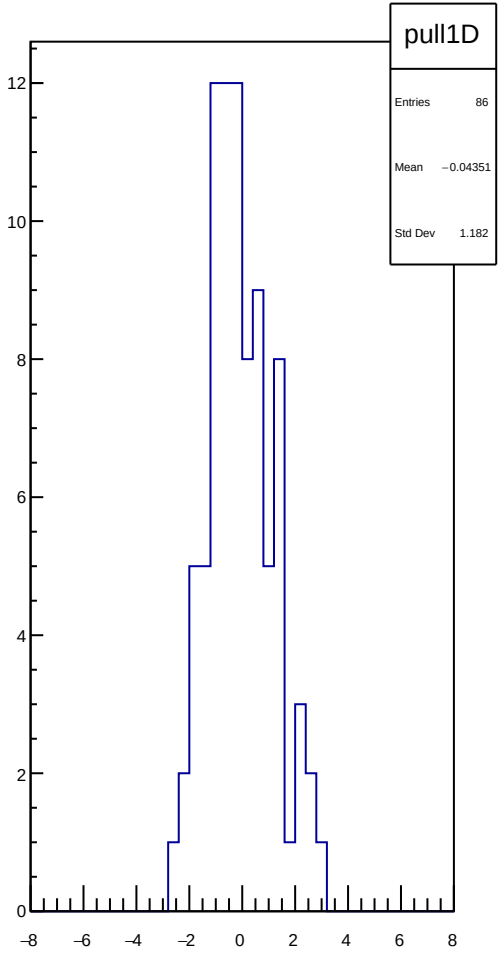

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.664e+05 / 85
p0 88.3 ± 0.07168
200
180
160
140
120
100
80
60
40

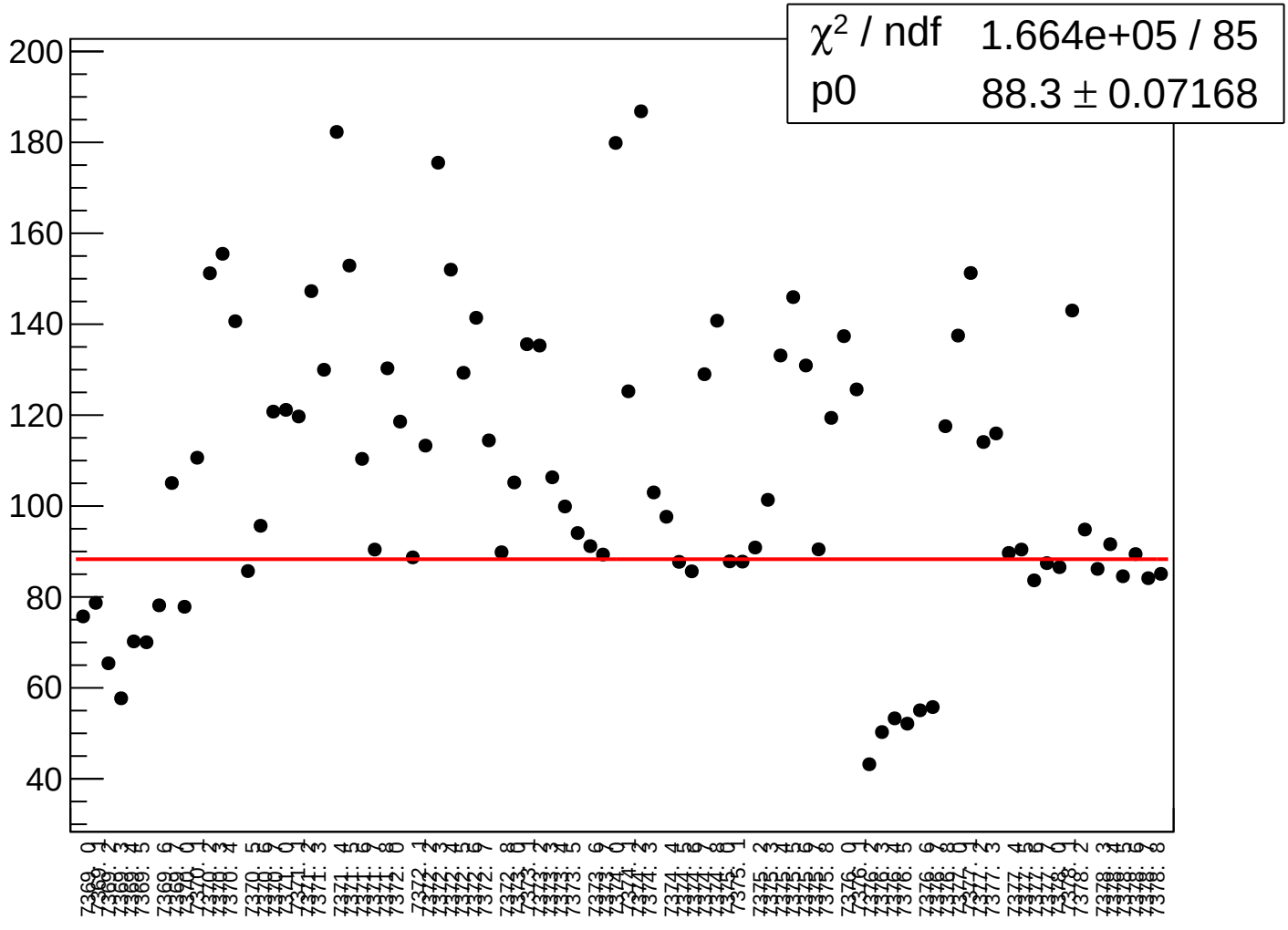

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.88 / 85
p0 1.222e−06 ± 3.728e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 181.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.01233
Std Dev 0.9992
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

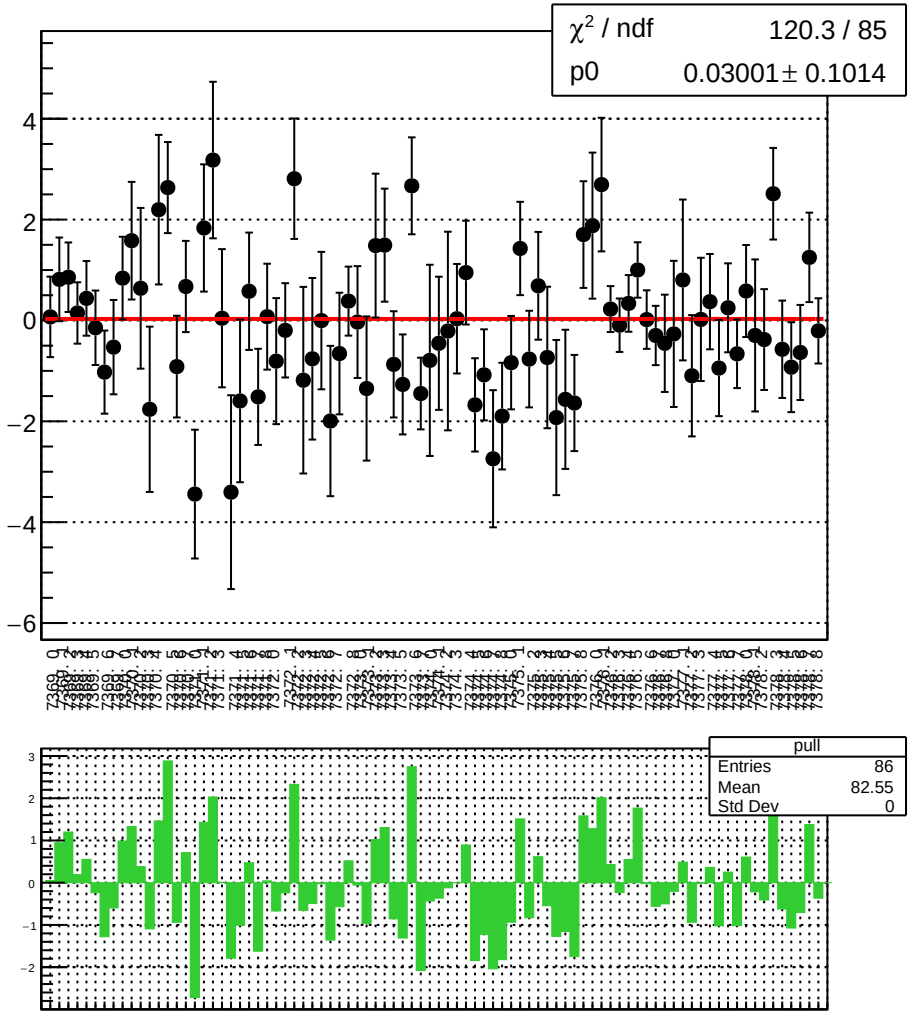

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2287 / 85
p0 0.003418 ± 2.636e−06
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032

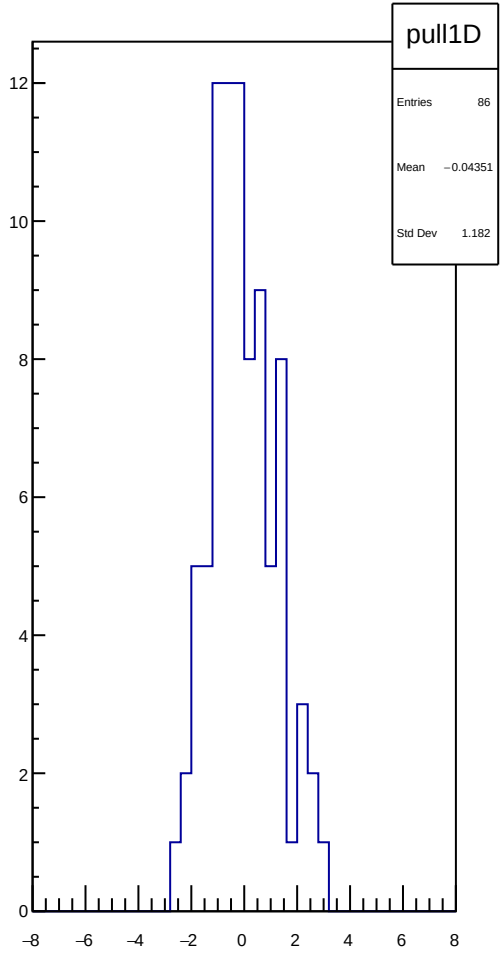

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120.3 / 85
p0 0.03001 ± 0.1014
pull
Entries 86
Mean 82.55
Std Dev 0

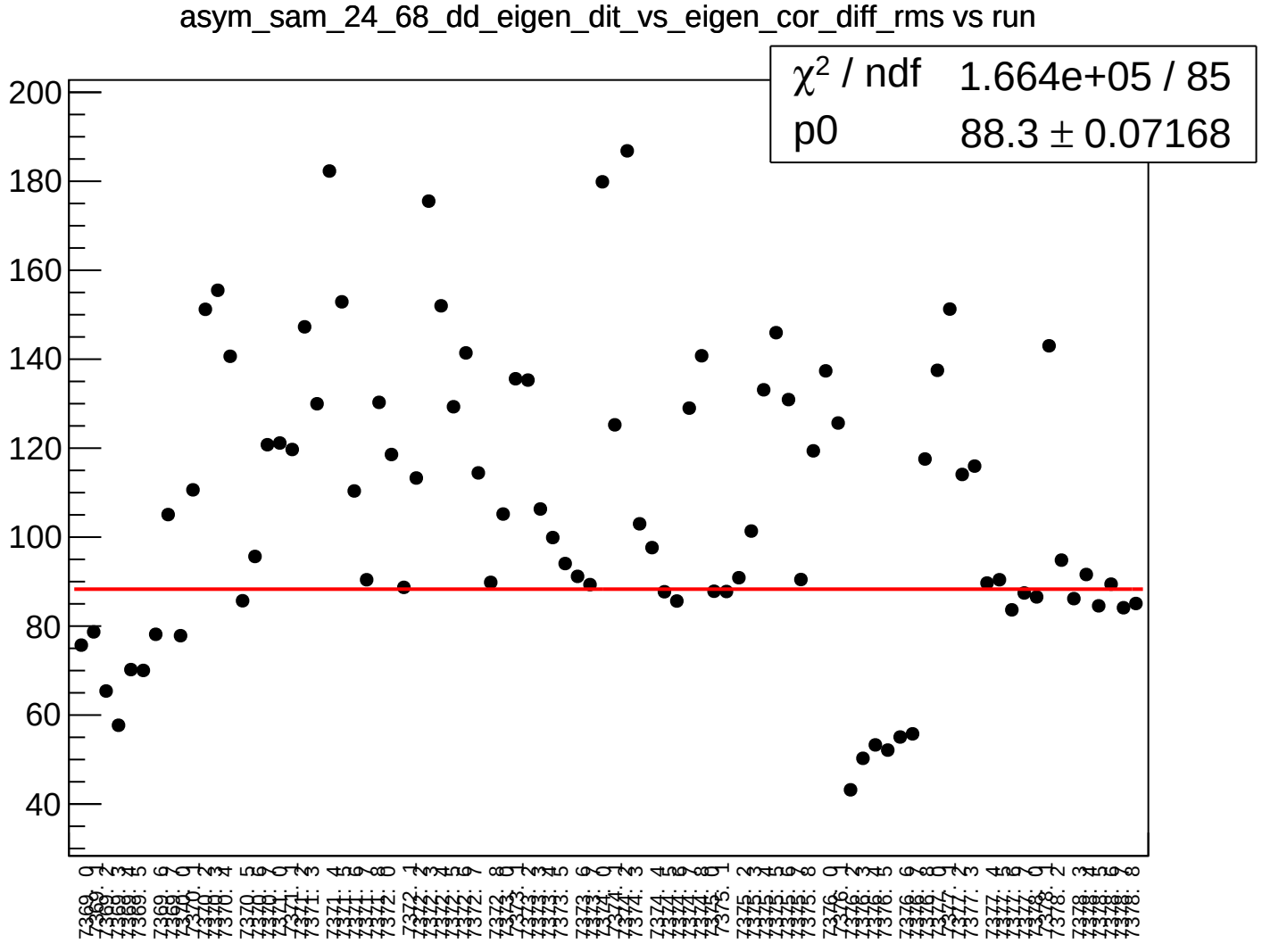

pull1D
Entries 86
Mean −0.04351
Std Dev 1.182

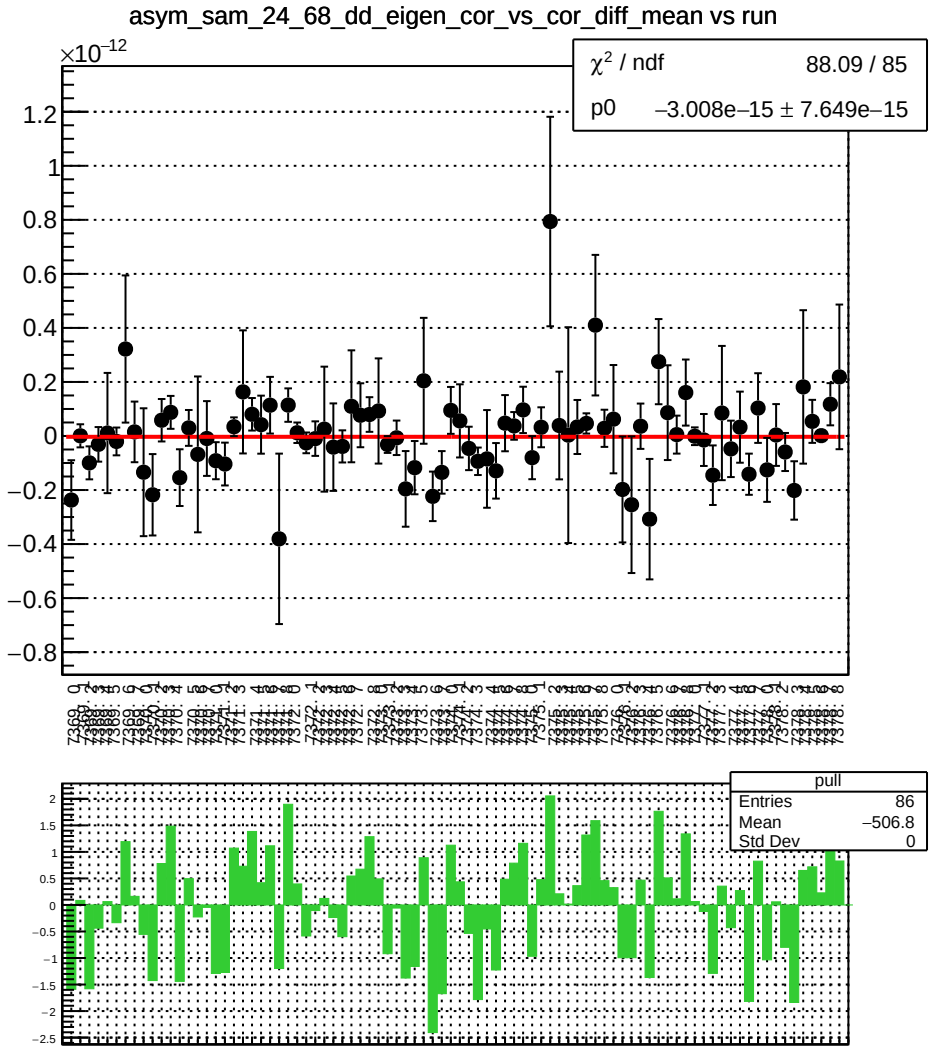

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.664e+05 / 85
p0 88.3 ± 0.07168
200
180
160
140
120
100
80
60
40

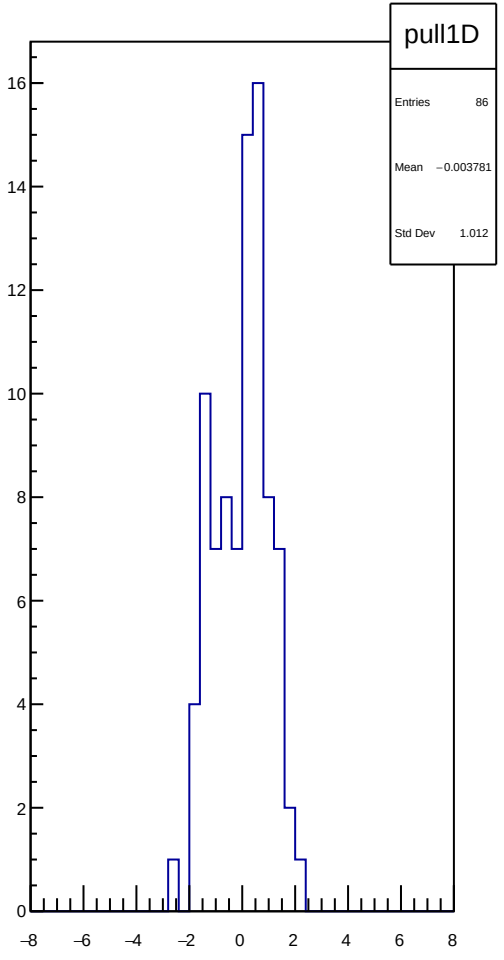
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

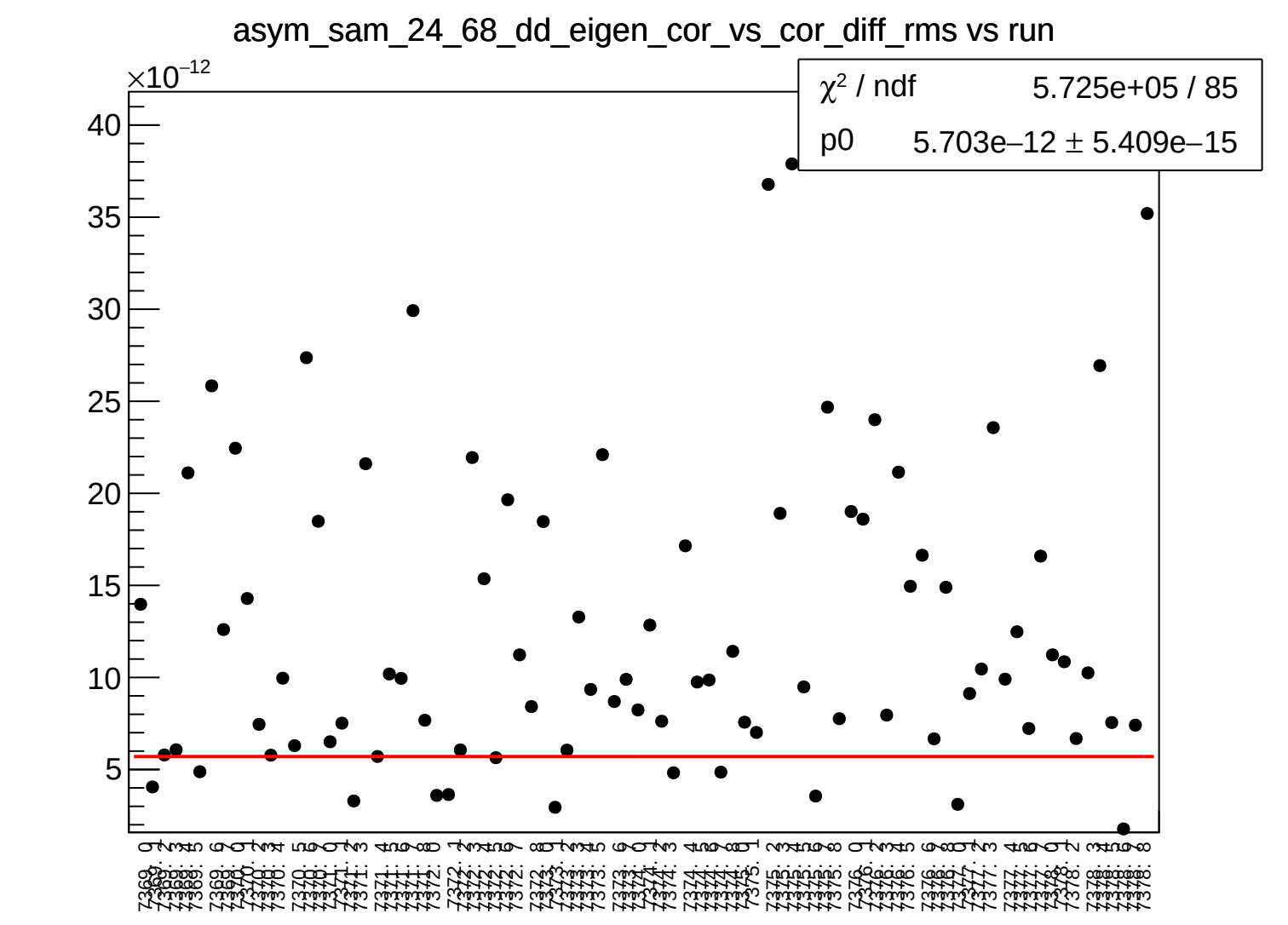


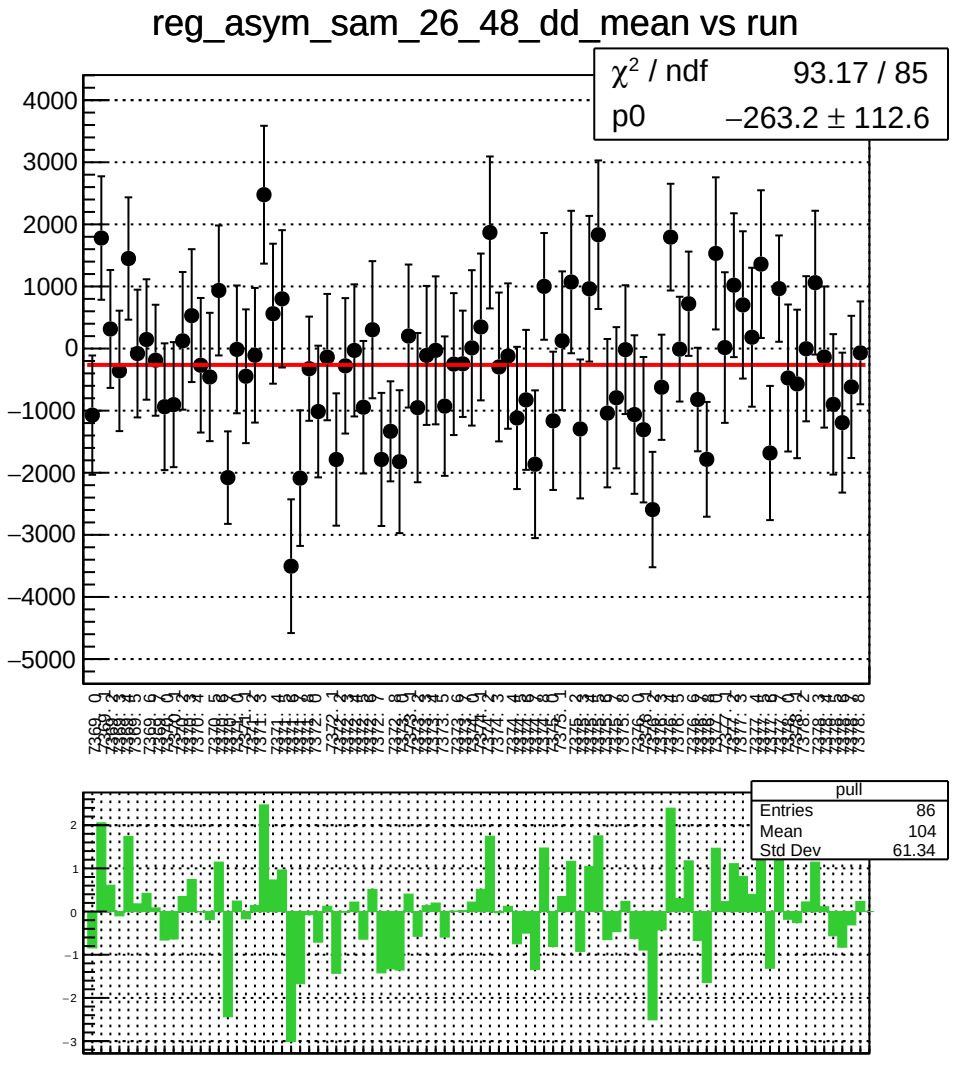


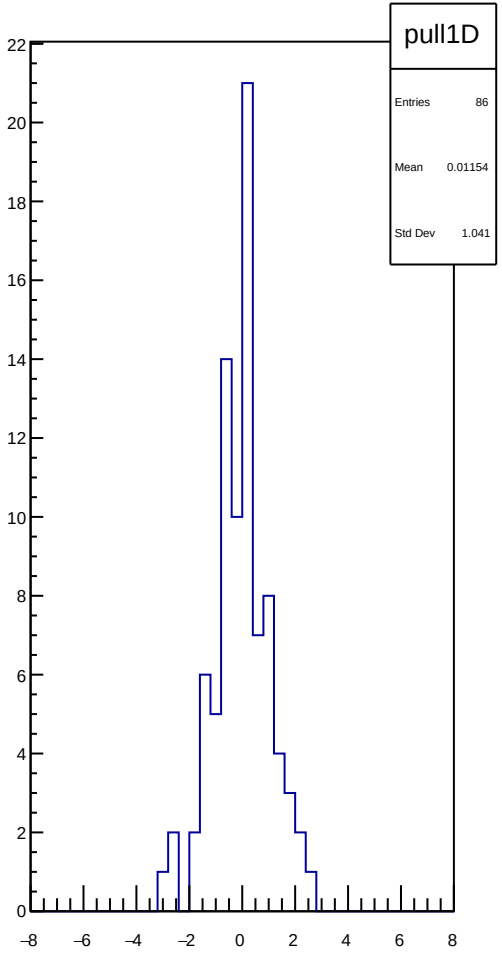

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.664e+05 / 85
p0 88.3 ± 0.07168
200
180
160
140
120
100
80
60
40

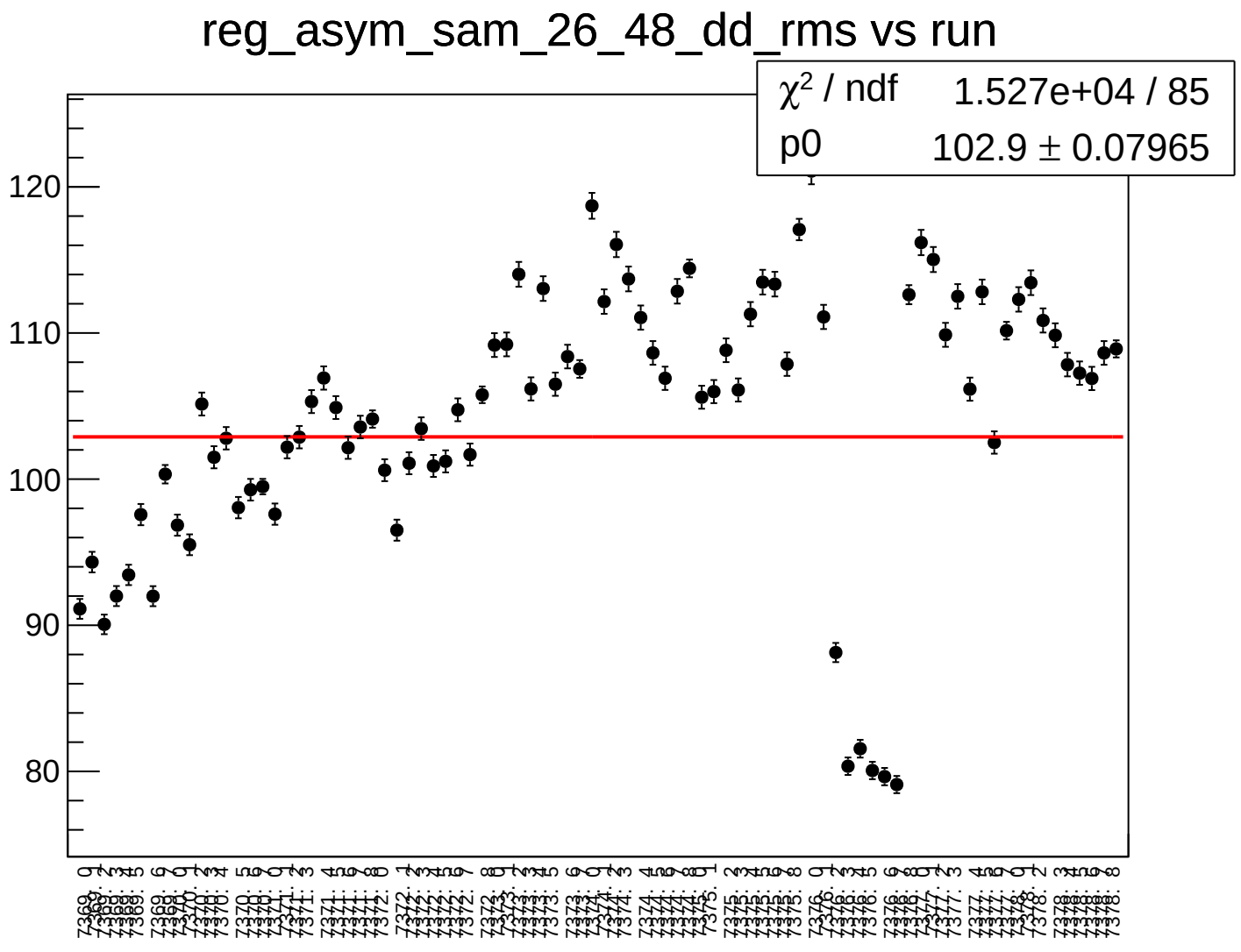

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.09 / 85
p0 −3.008e−15 ± 7.649e−15
pull
Entries 86
Mean −506.8
Std Dev 0

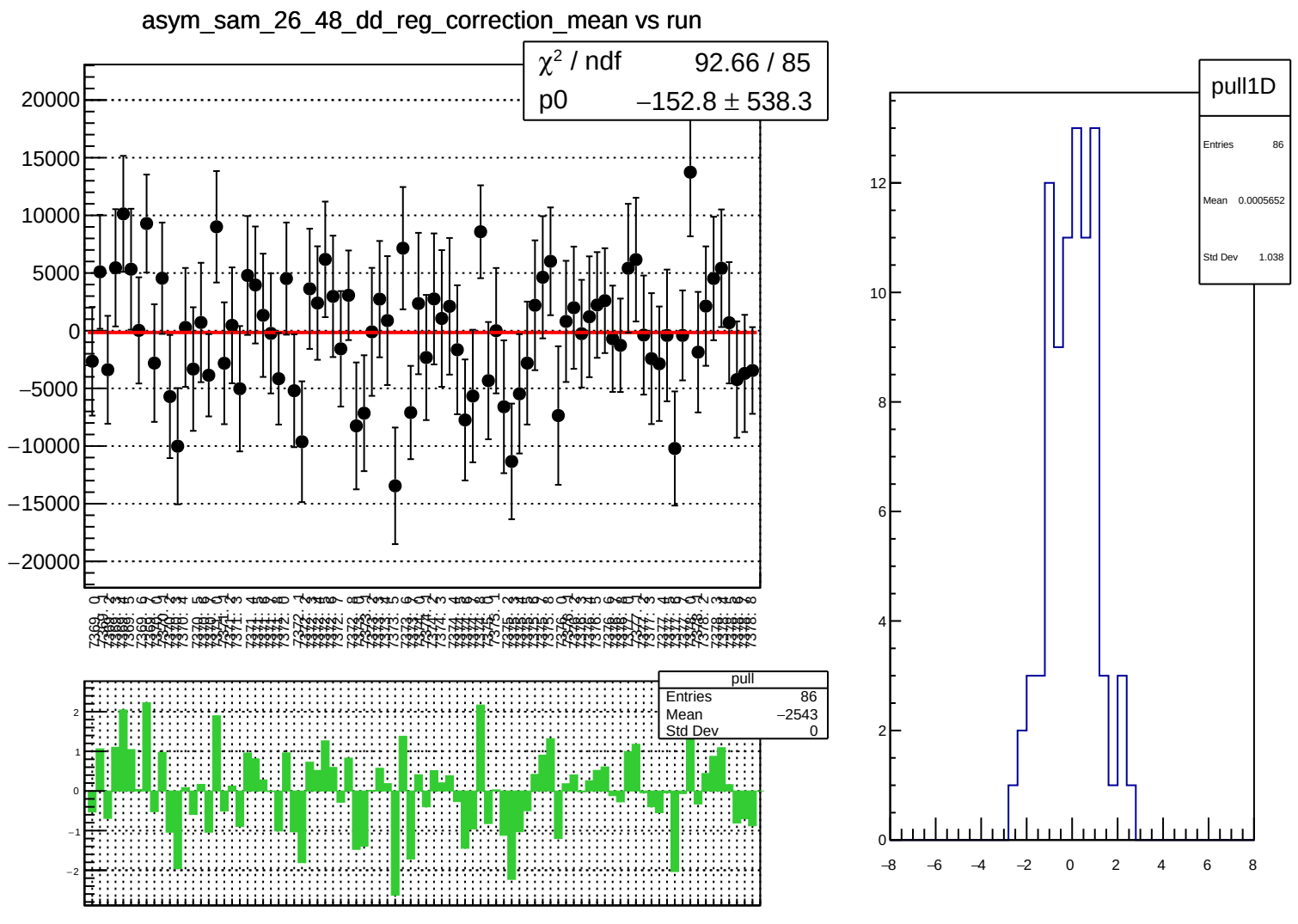

pull1D
Entries 86
Mean −0.003781
Std Dev 1.012

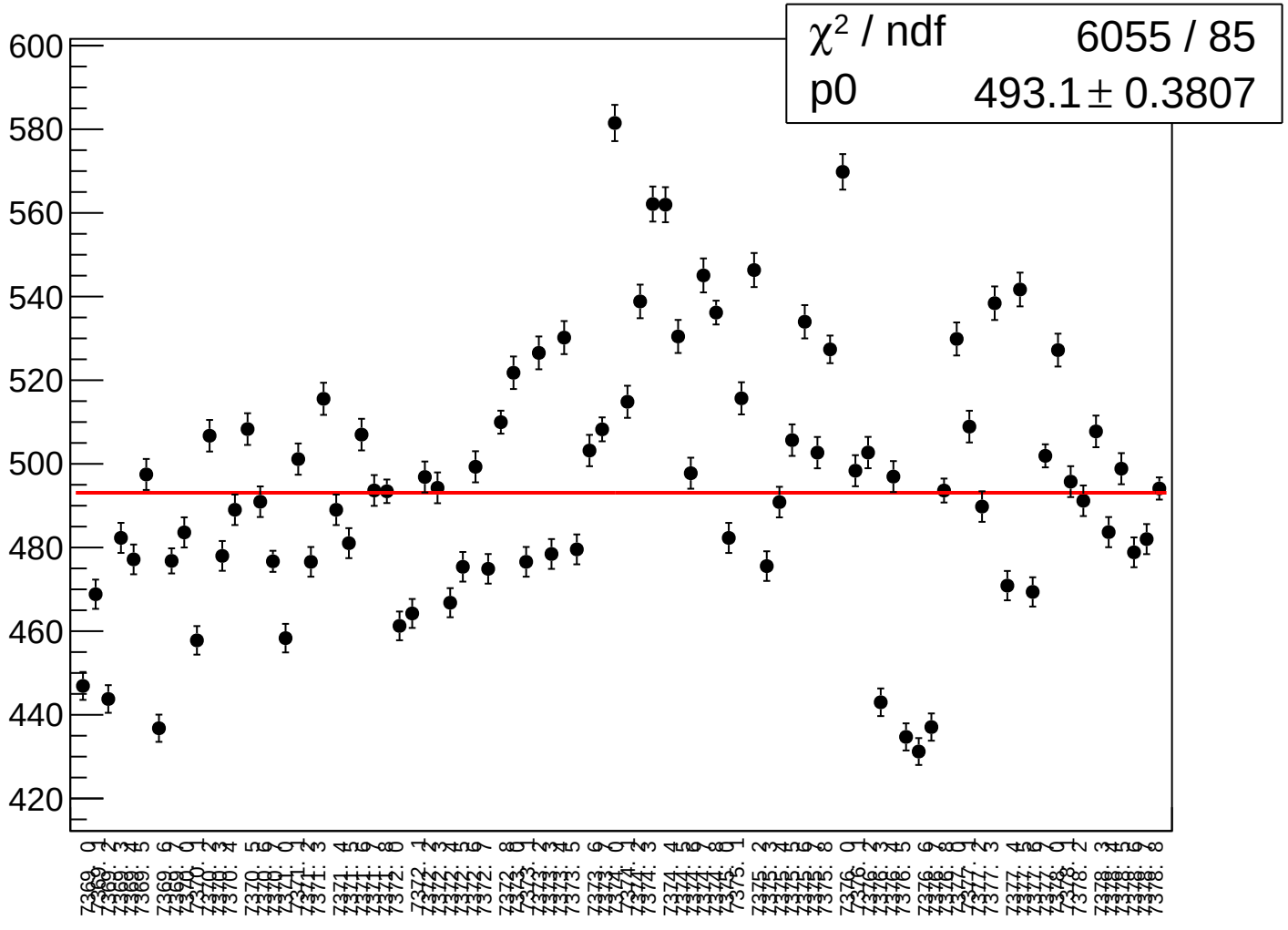

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.725e+05 / 85
p0 5.703e−12 ± 5.409e−15
40
35
30
25
20
15
10
5

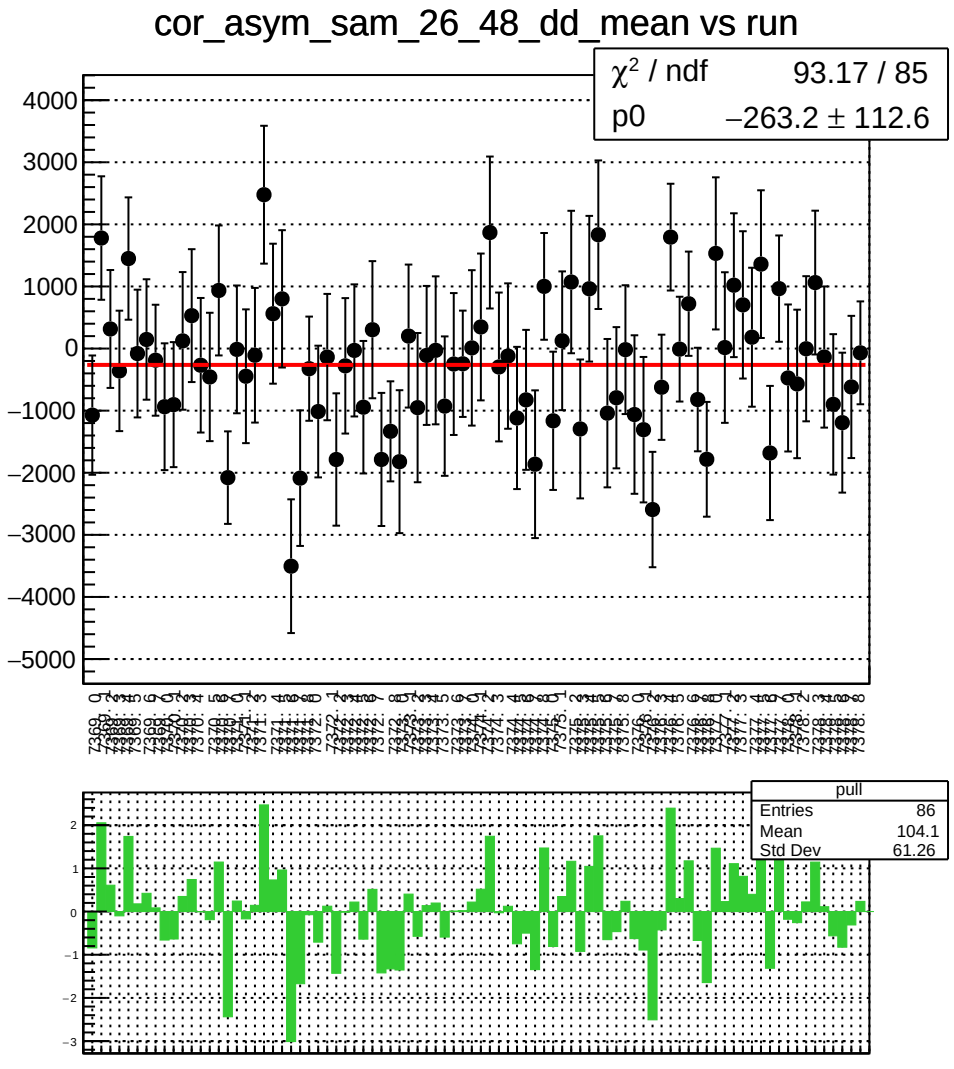

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 93.17 / 85
p0 −263.2 ± 112.6
pull
Entries 86
Mean 104
Std Dev 61.34

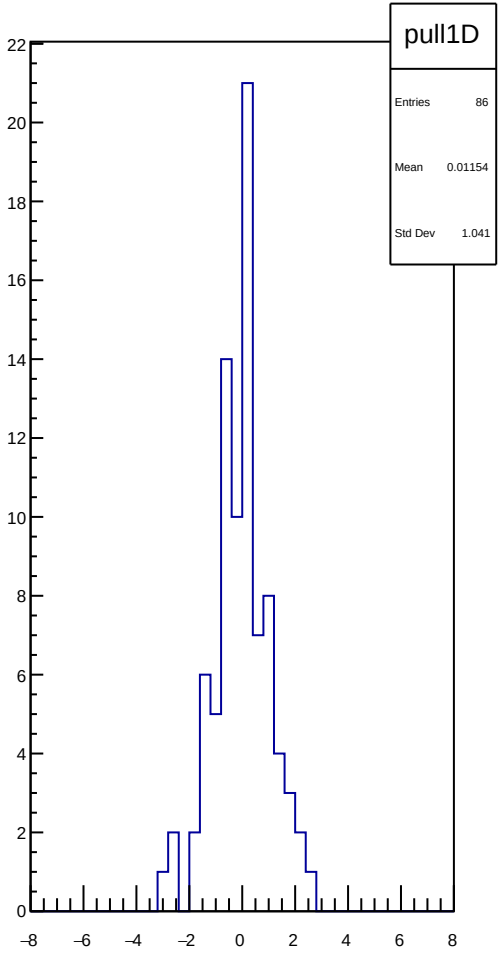

pull1D
Entries 86
Mean 0.01154
Std Dev 1.041

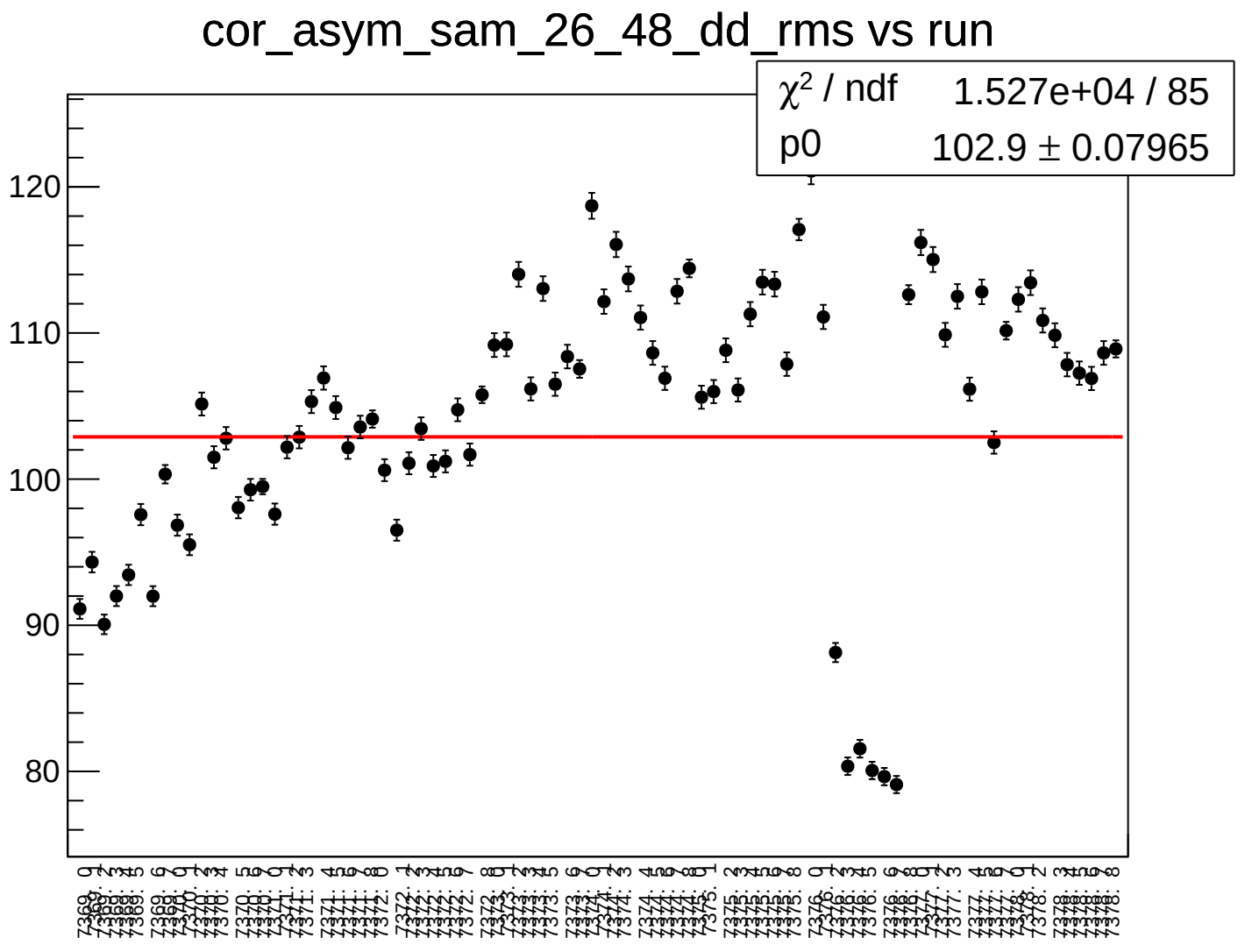

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.527e+04 / 85
p0 102.9 ± 0.07965
120
110
100
90
80

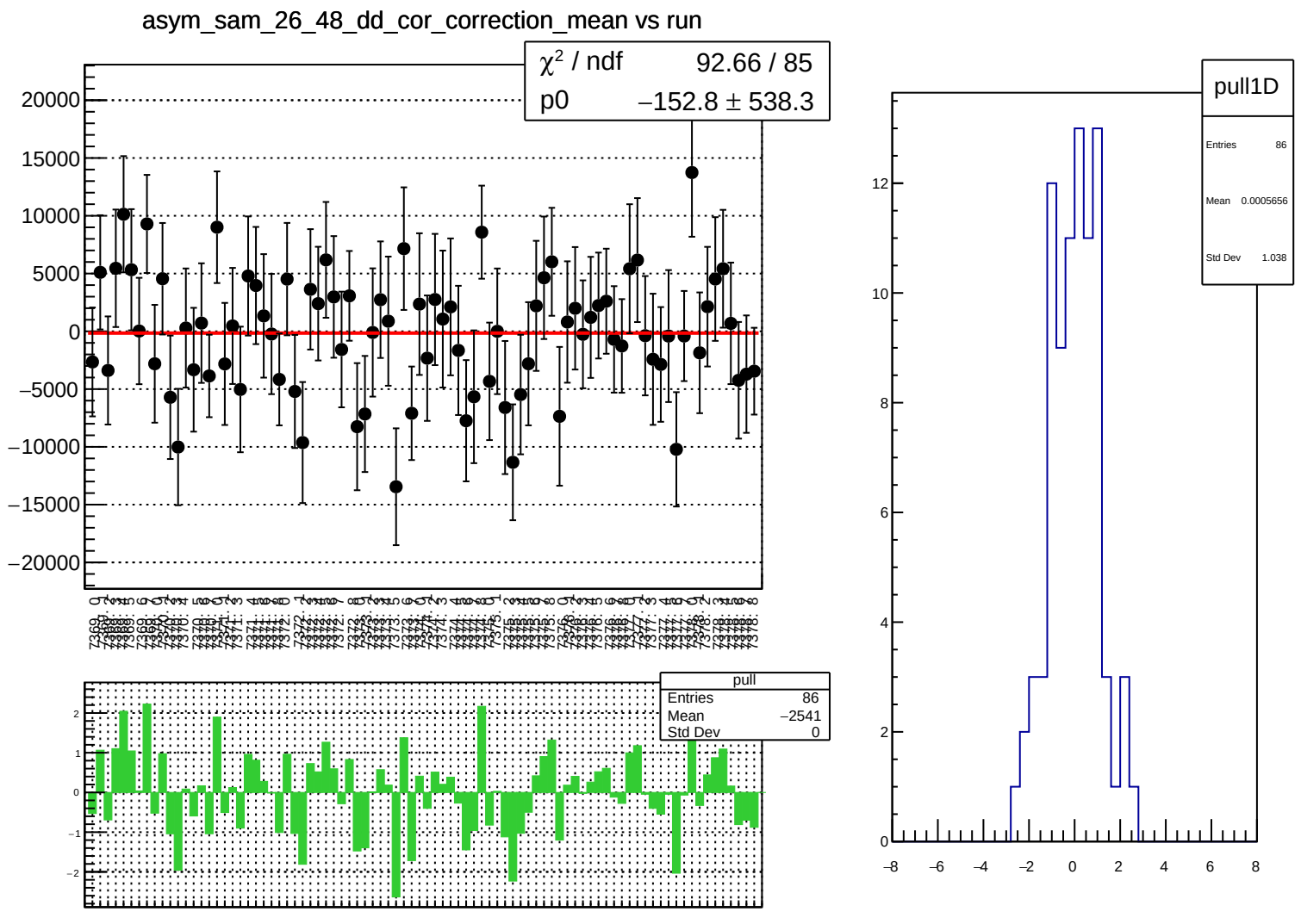

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 92.66 / 85
p0 −152.8 ± 538.3
pull
Entries 86
Mean −2543
Std Dev 0
pull1D
Entries 86
Mean 0.0005652
Std Dev 1.038

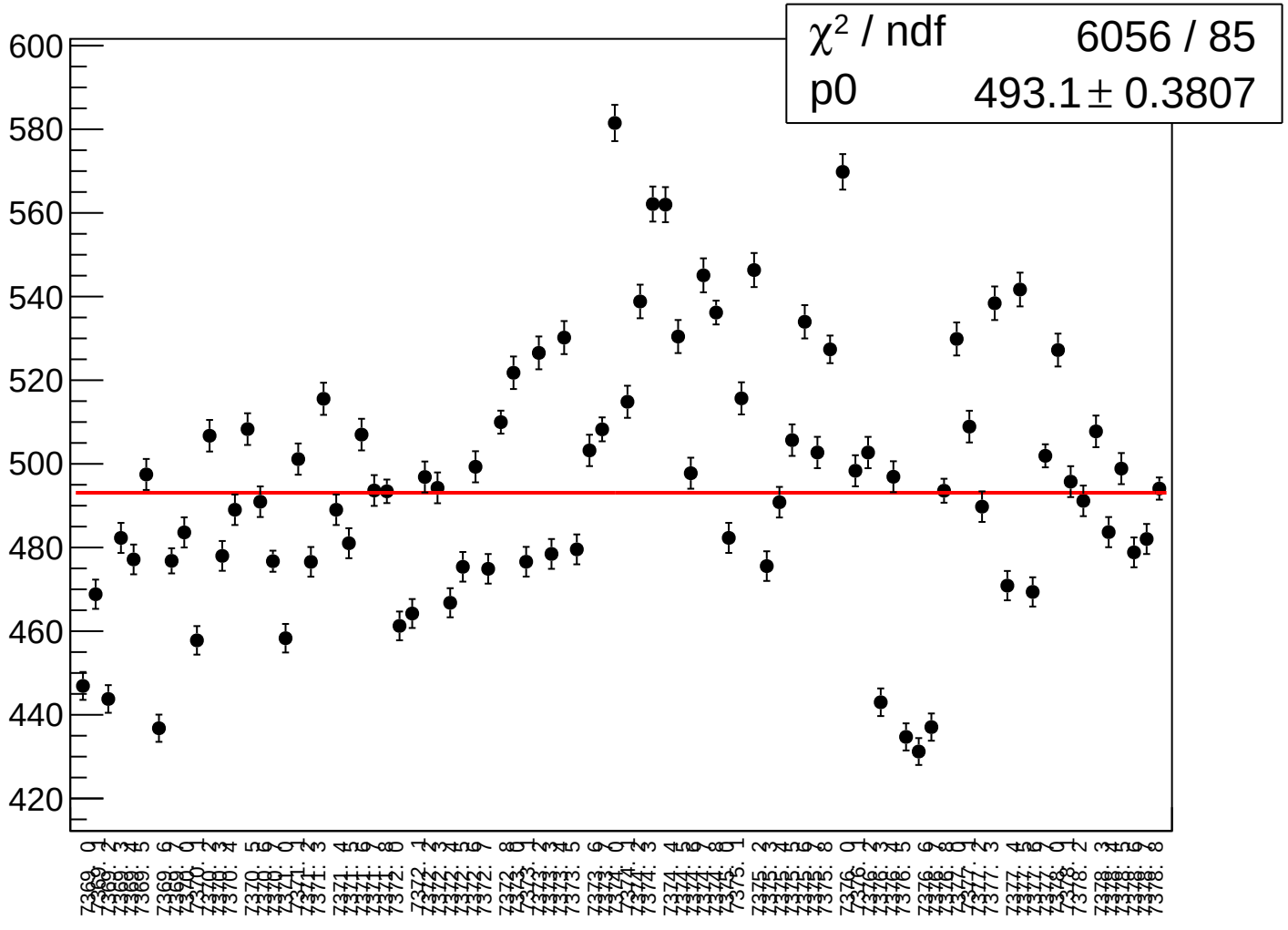

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 6055 / 85
p0 493.1 ± 0.3807
600
580
560
540
520
500
480
460
440
420

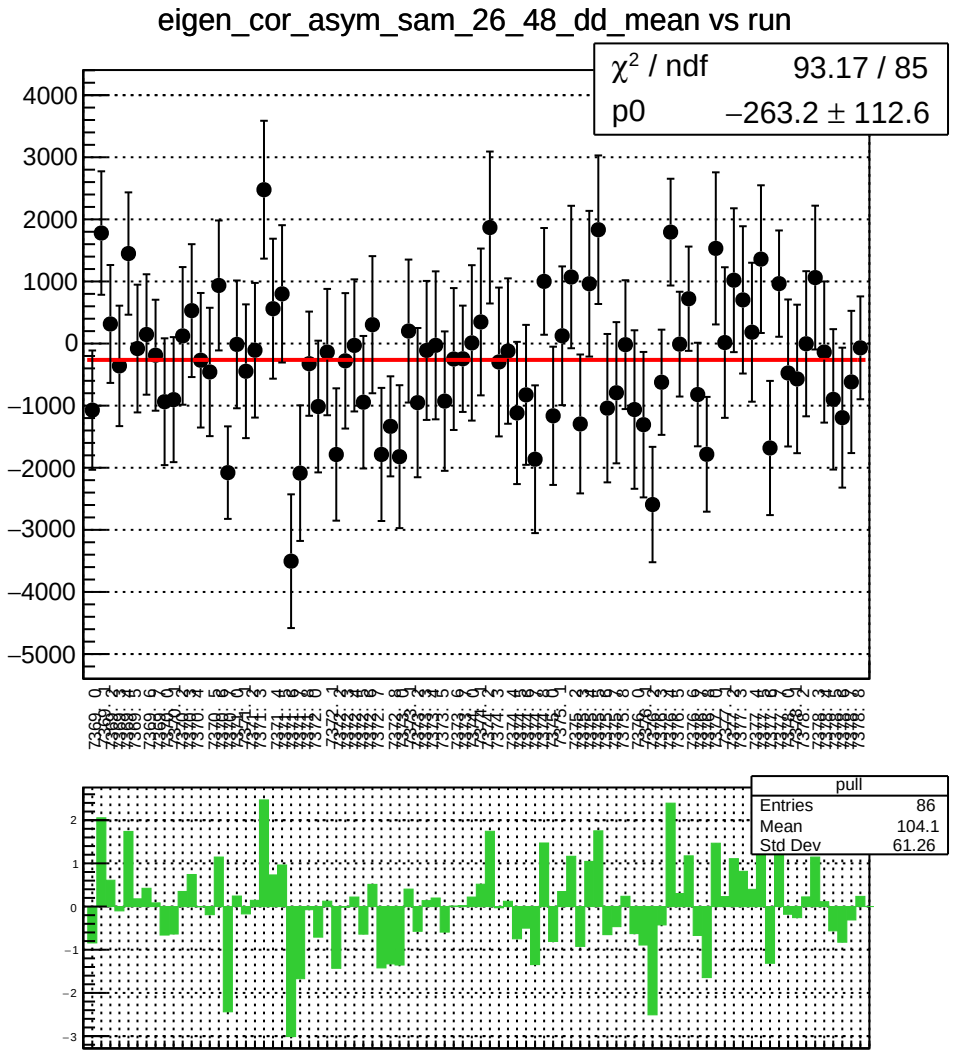

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 93.17 / 85
p0 −263.2 ± 112.6
pull
Entries 86
Mean 104.1
Std Dev 61.26

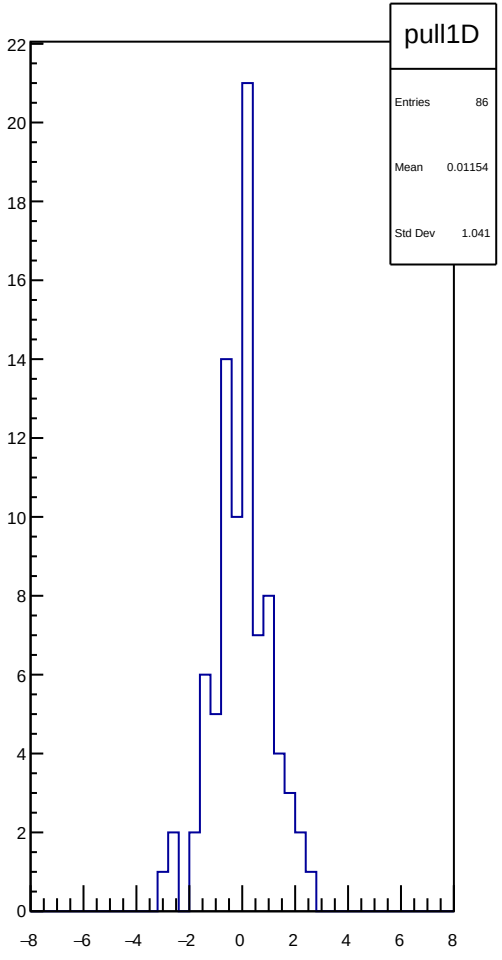

pull1D
Entries 86
Mean 0.01154
Std Dev 1.041

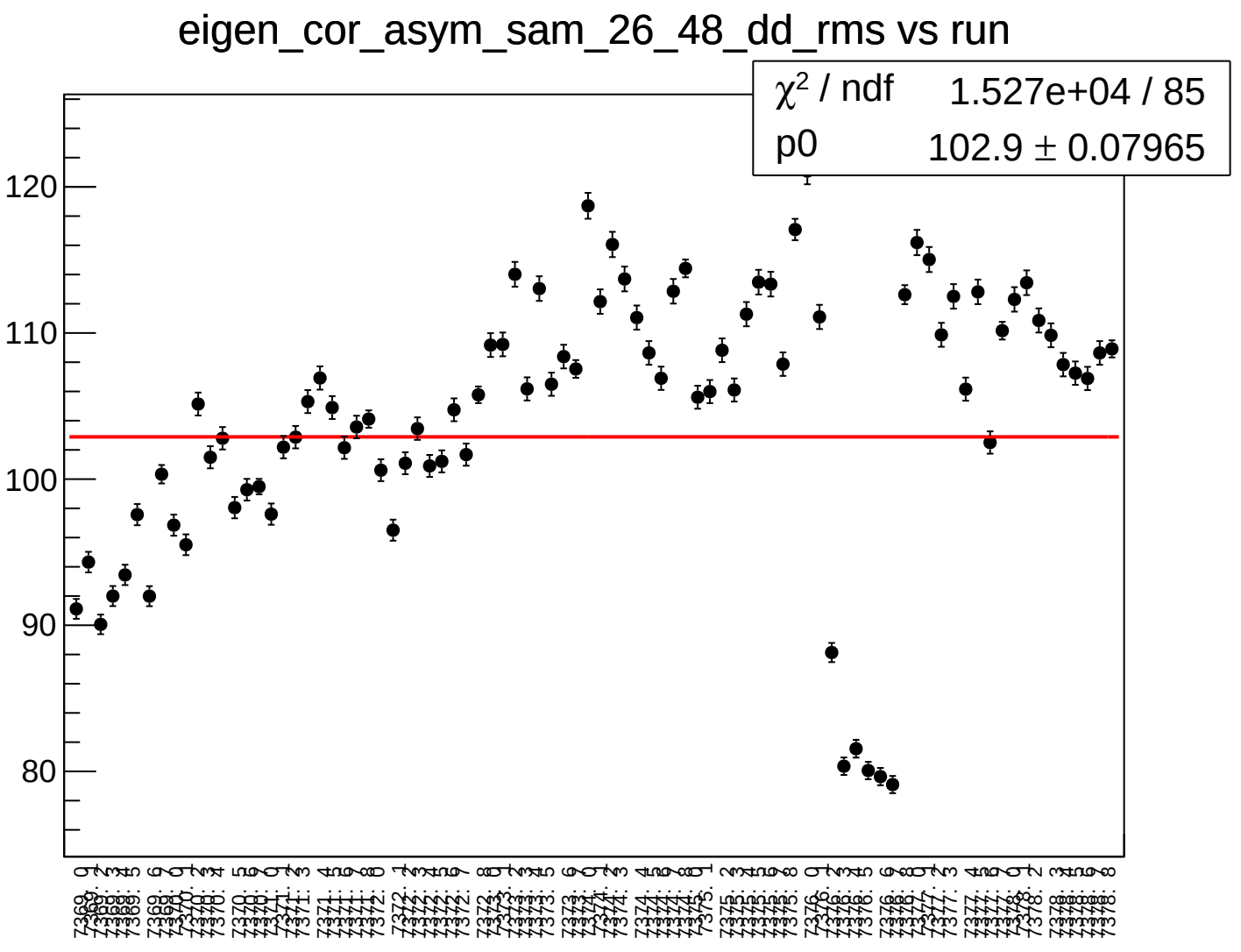

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.527e+04 / 85
p0 102.9 ± 0.07965
120
110
100
90
80

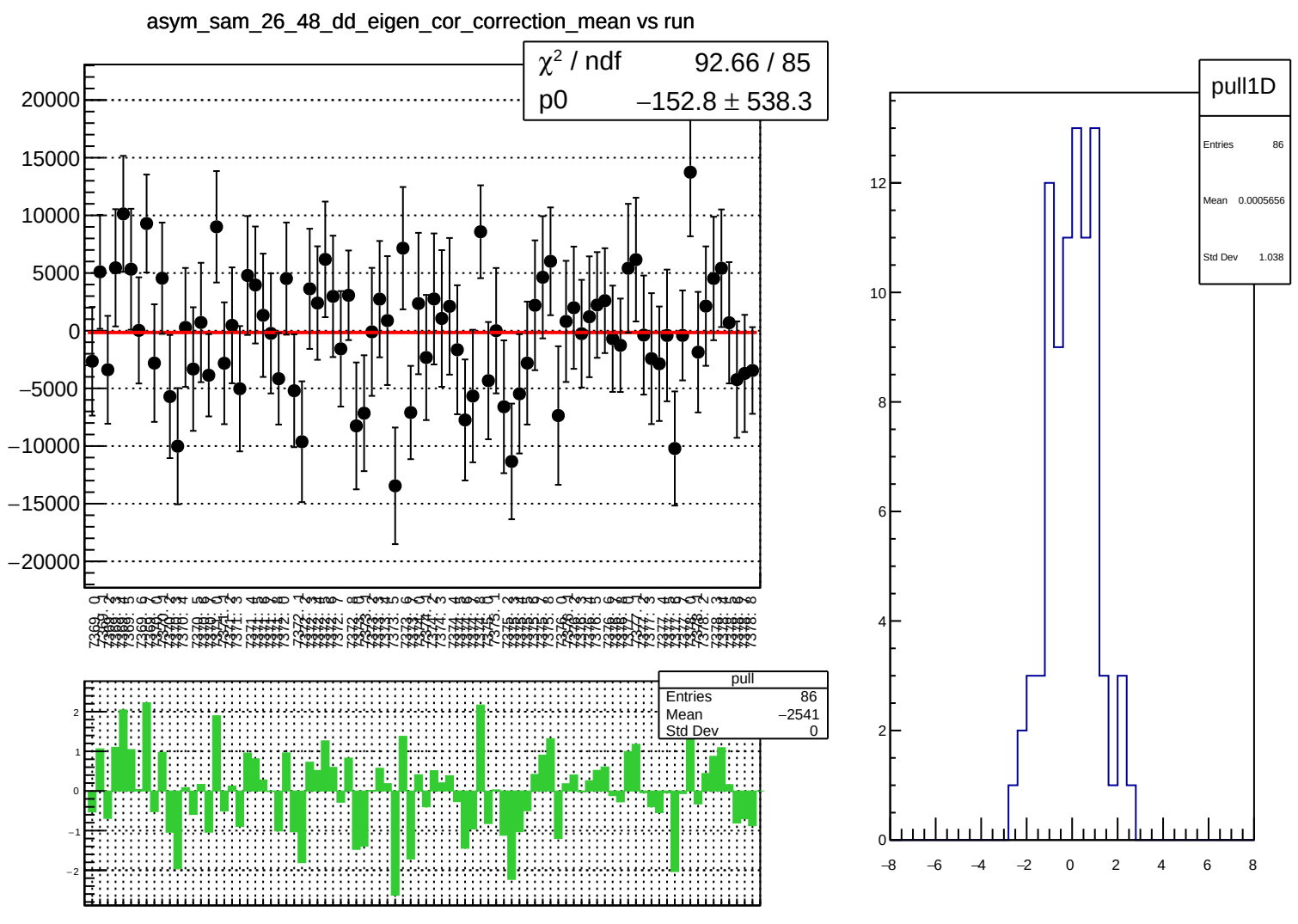

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 92.66 / 85
p0 −152.8 ± 538.3
pull
Entries 86
Mean −2541
Std Dev 0
pull1D
Entries 86
Mean 0.0005656
Std Dev 1.038

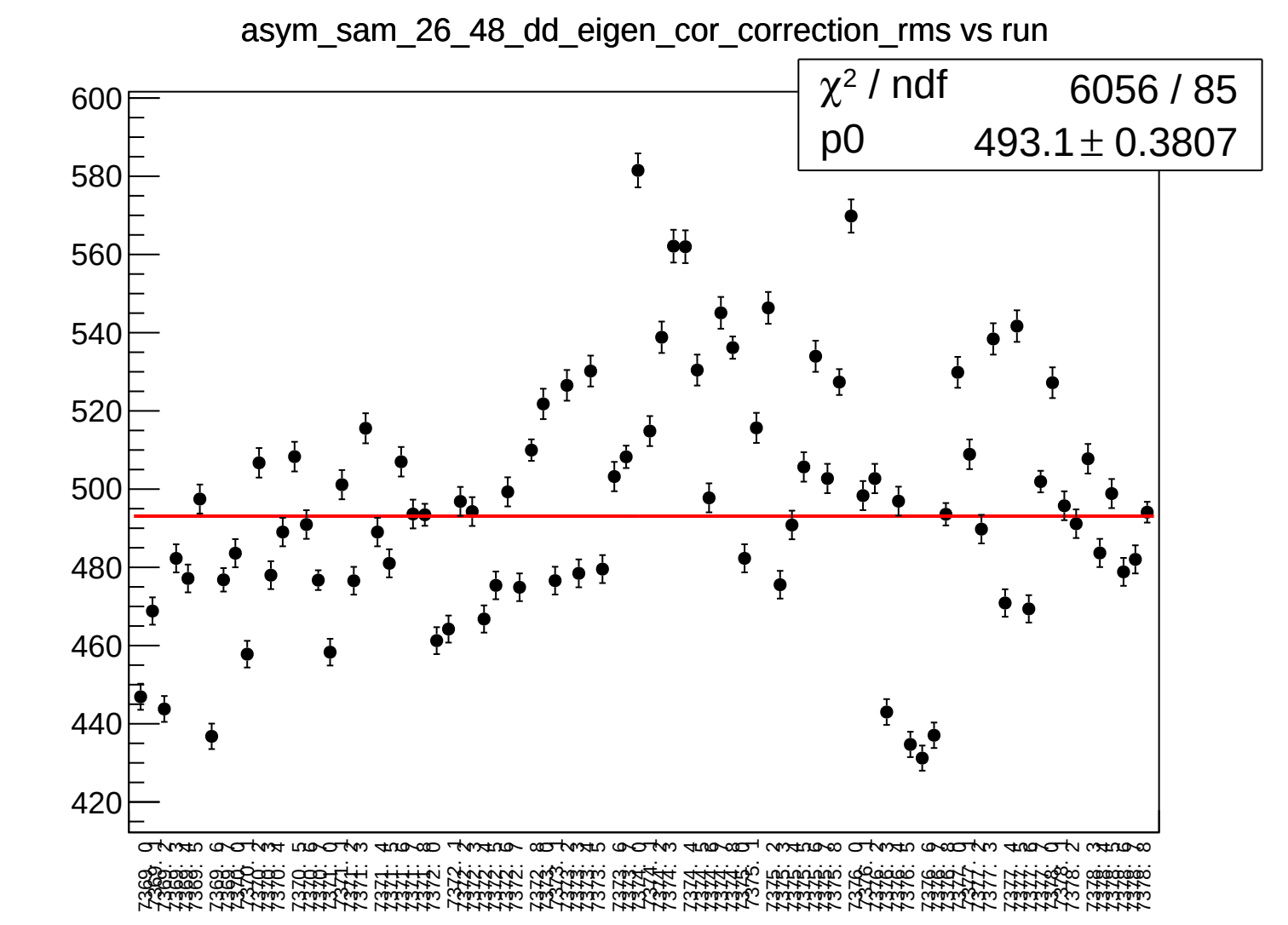

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 6056 / 85
p0 493.1 ± 0.3807
600
580
560
540
520
500
480
460
440
420

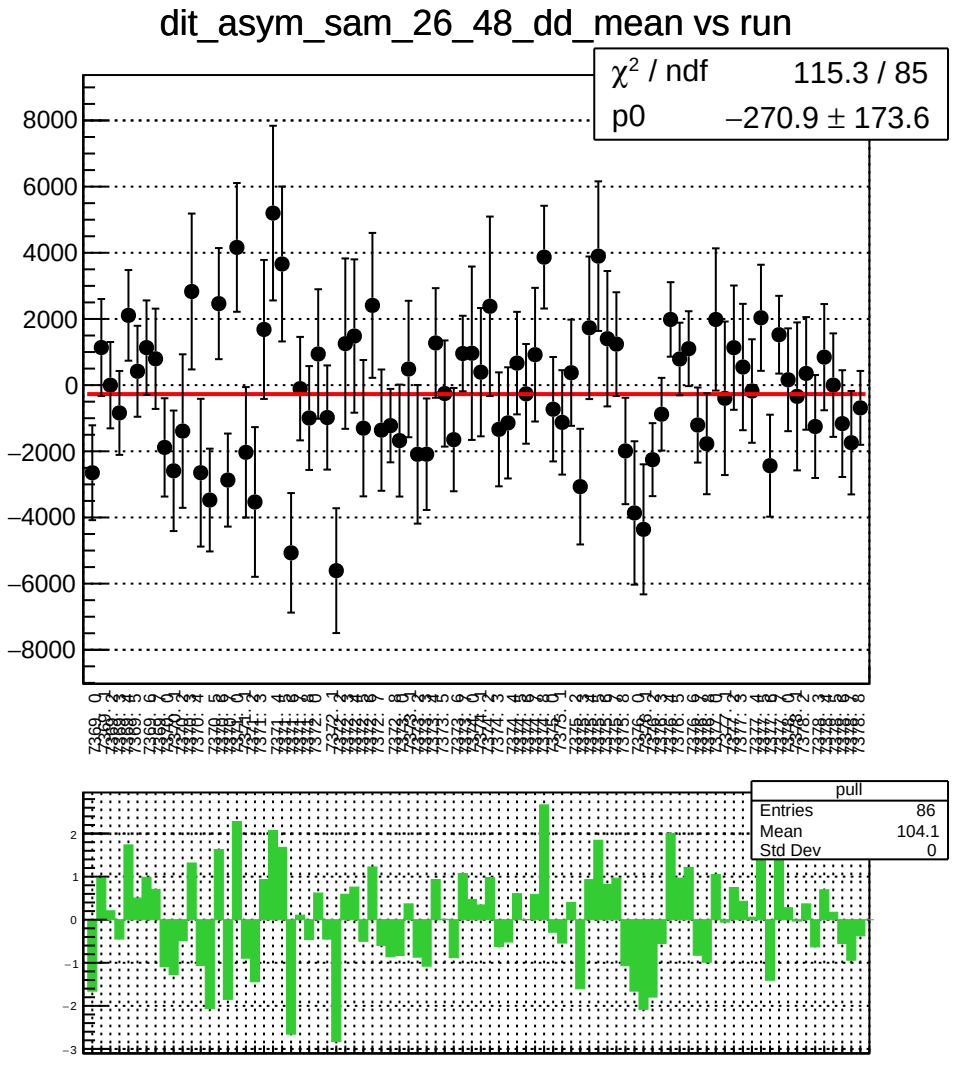

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 93.17 / 85
p0 −263.2 ± 112.6
pull
Entries 86
Mean 104.1
Std Dev 61.26

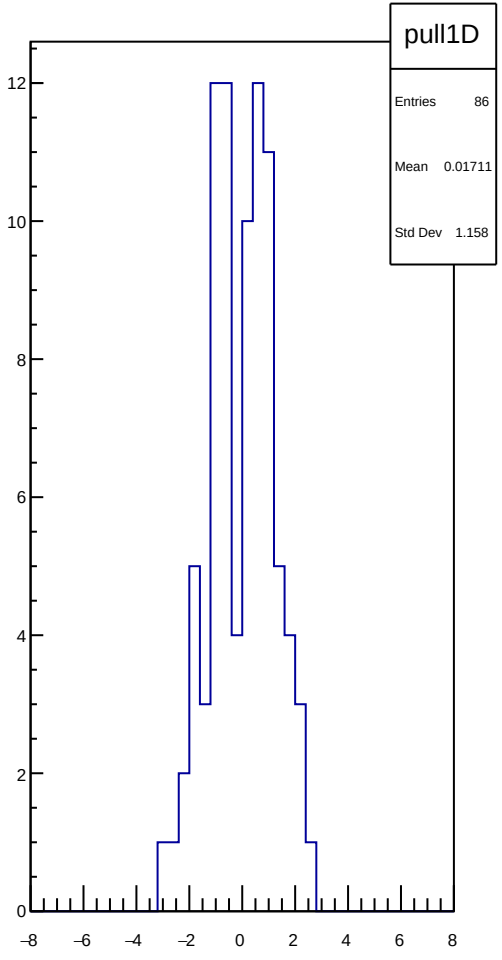

pull1D
Entries 86
Mean 0.01154
Std Dev 1.041

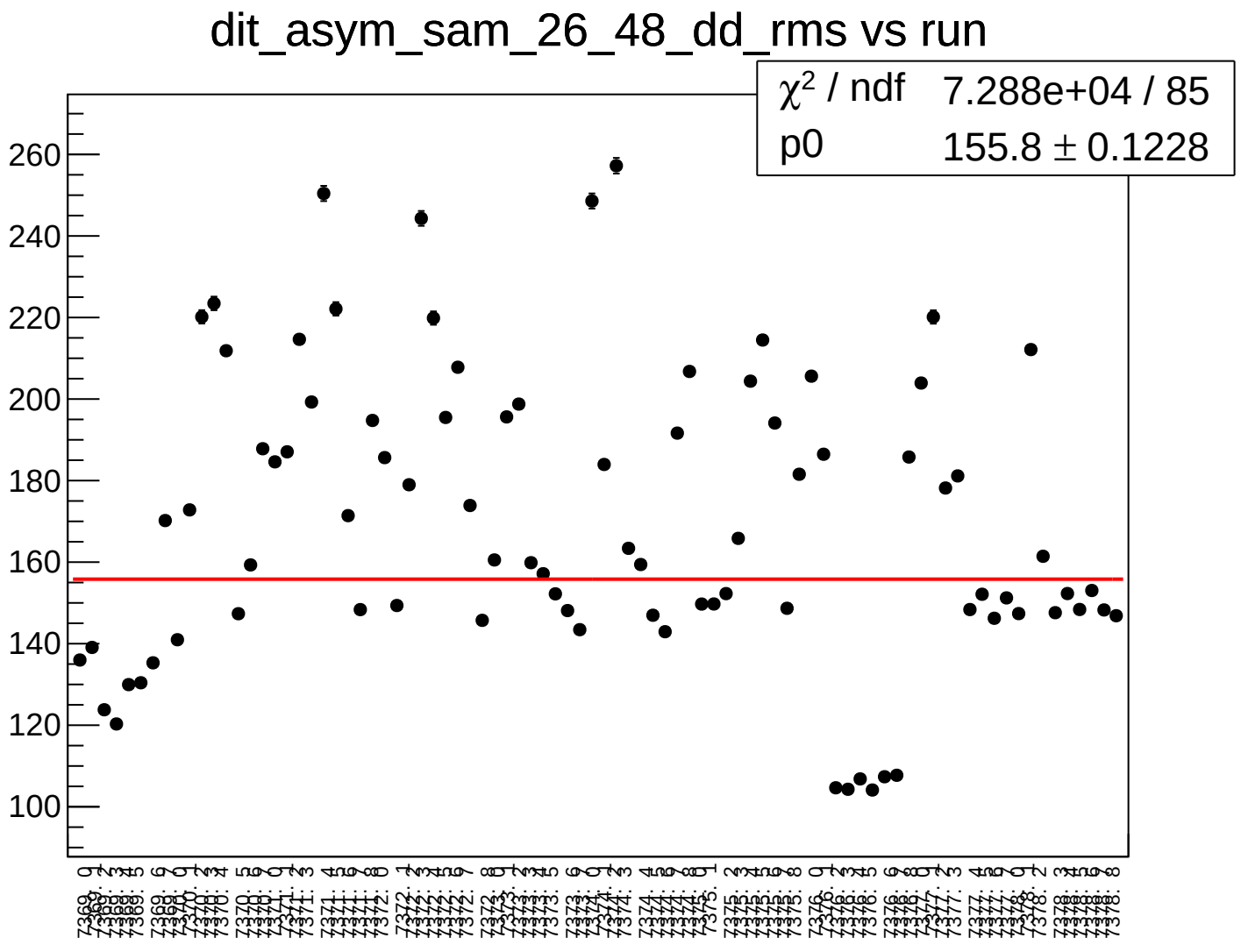

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.527e+04 / 85
p0 102.9 ± 0.07965
120
110
100
90
80

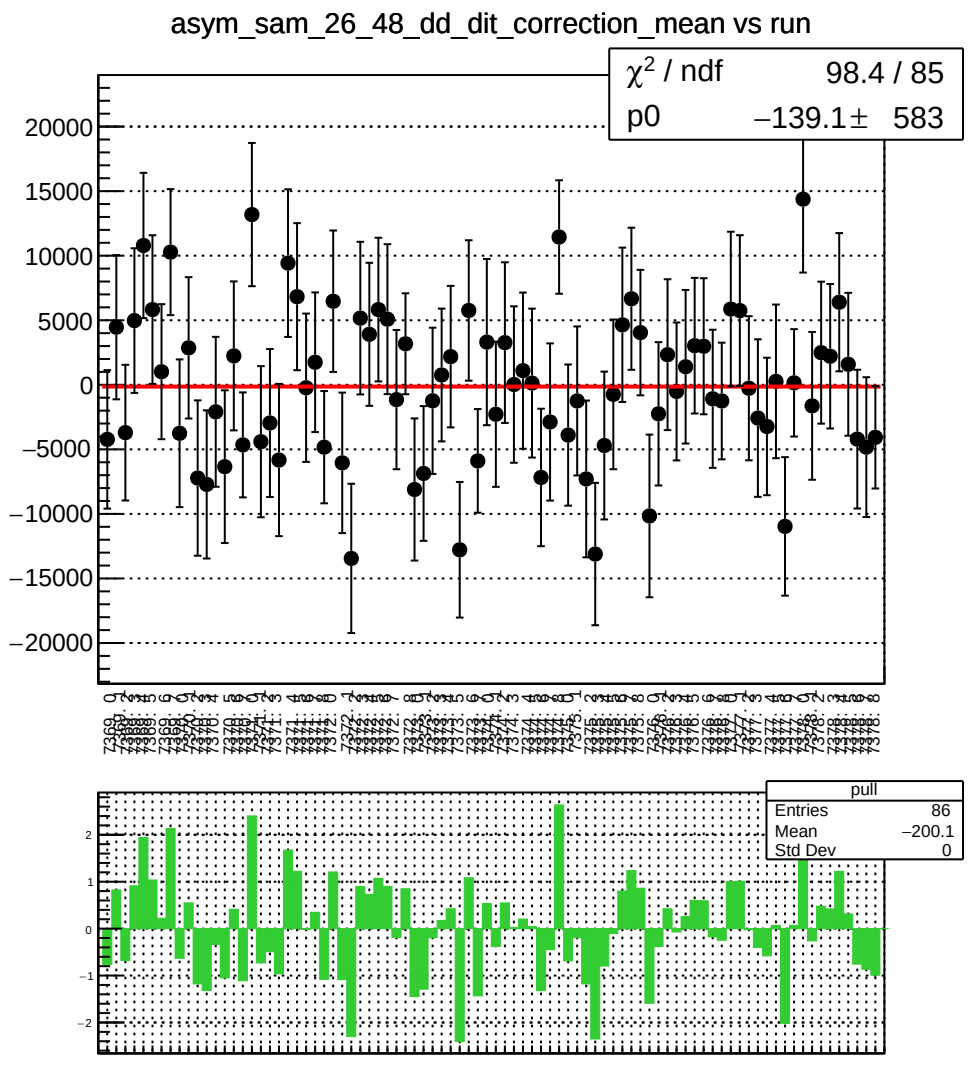

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.66 / 85
p0 −152.8 ± 538.3
pull
Entries 86
Mean −2541
Std Dev 0
pull1D
Entries 86
Mean 0.0005656
Std Dev 1.038

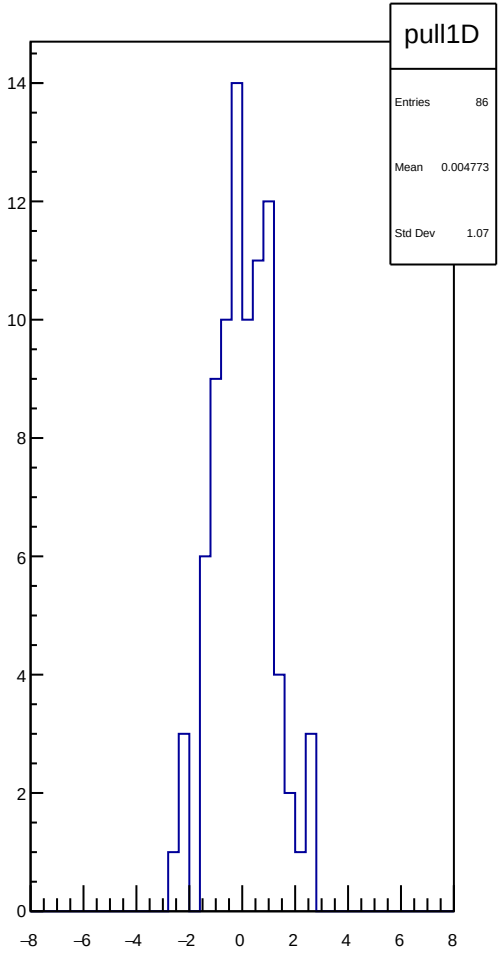

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6056 / 85
p0 493.1 ± 0.3807
600
580
560
540
520
500
480
460
440
420

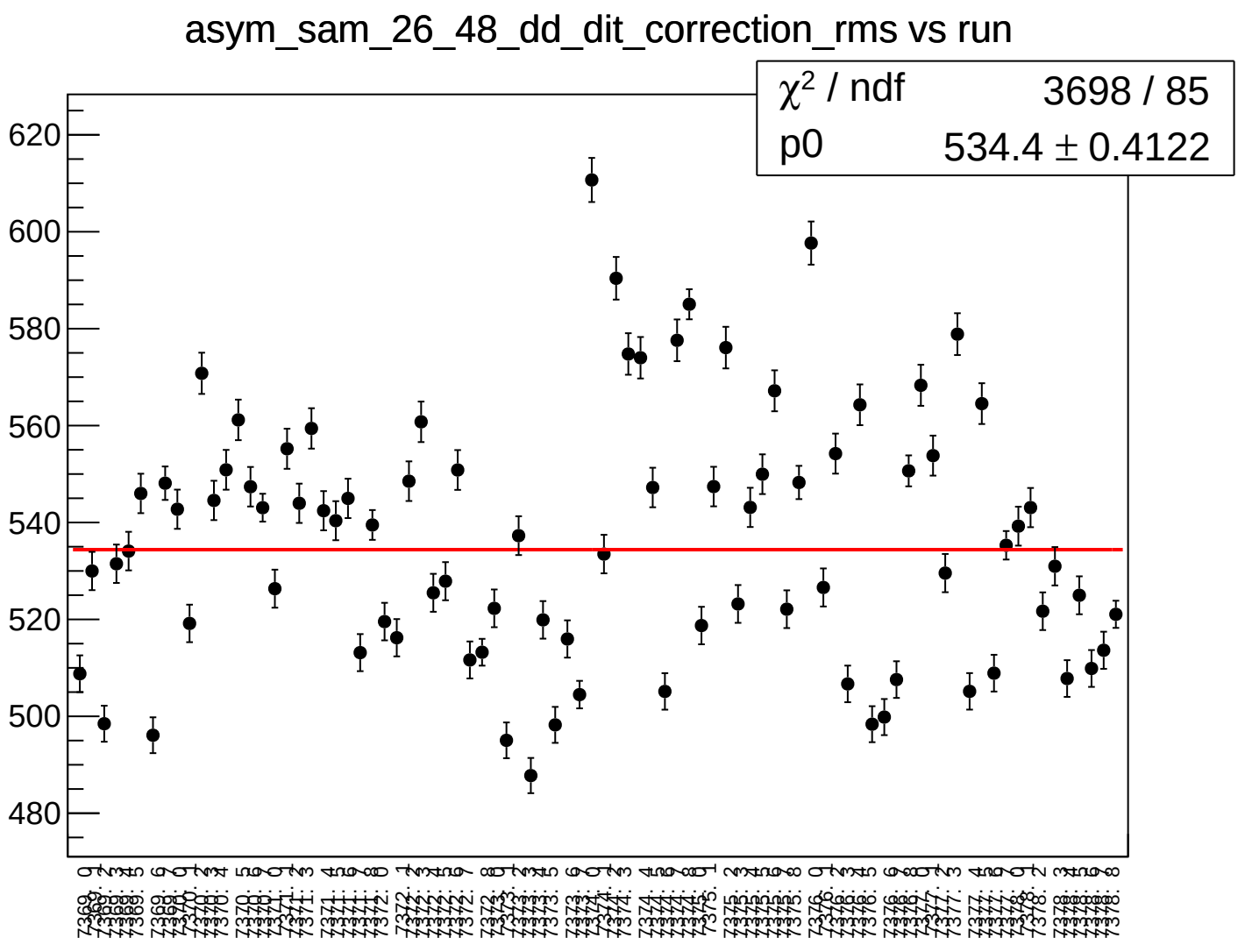

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 115.3 / 85
p0 −270.9 ± 173.6
pull
Entries 86
Mean 104.1
Std Dev 0

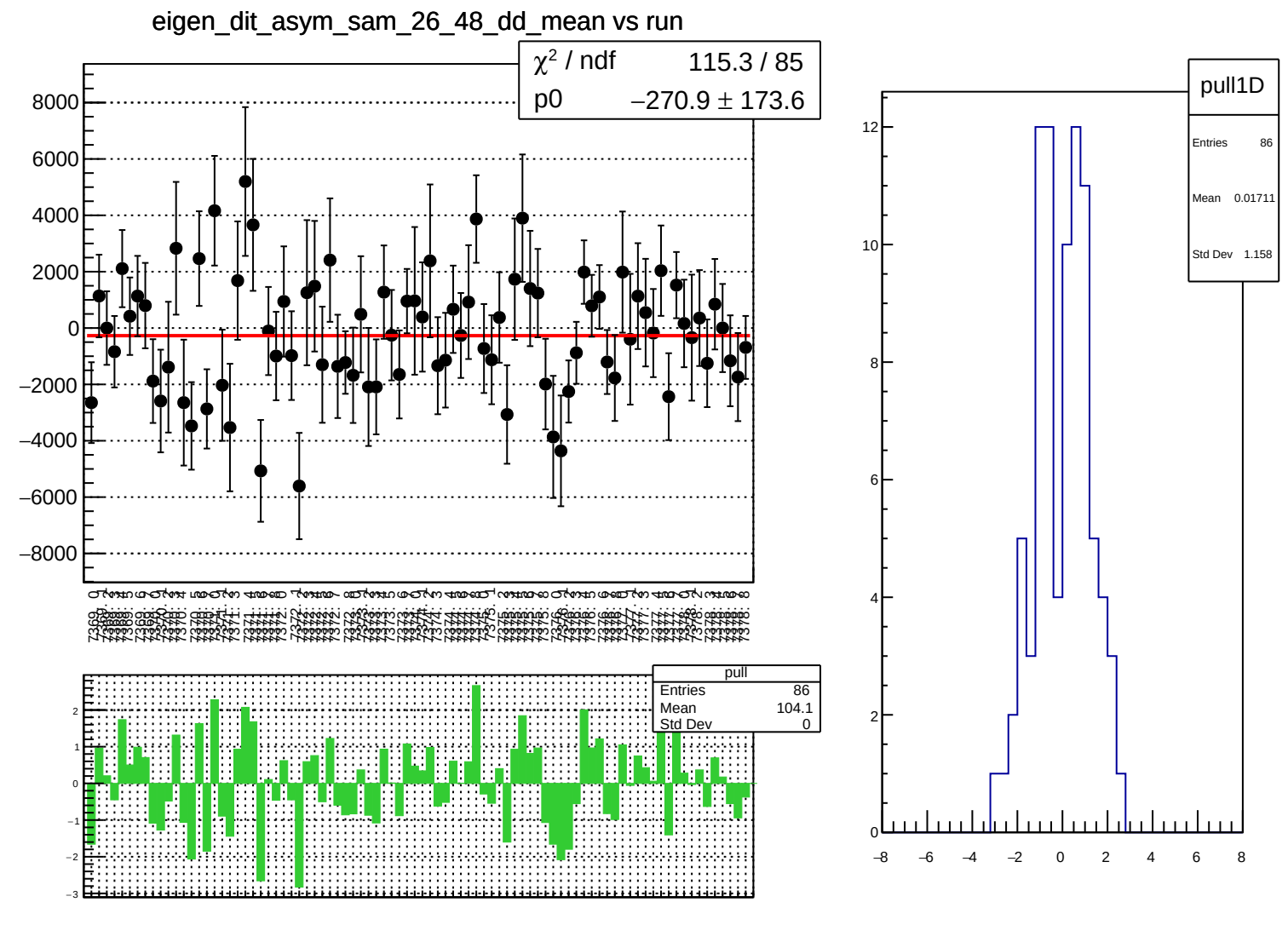

pull1D
Entries 86
Mean 0.01711
Std Dev 1.158

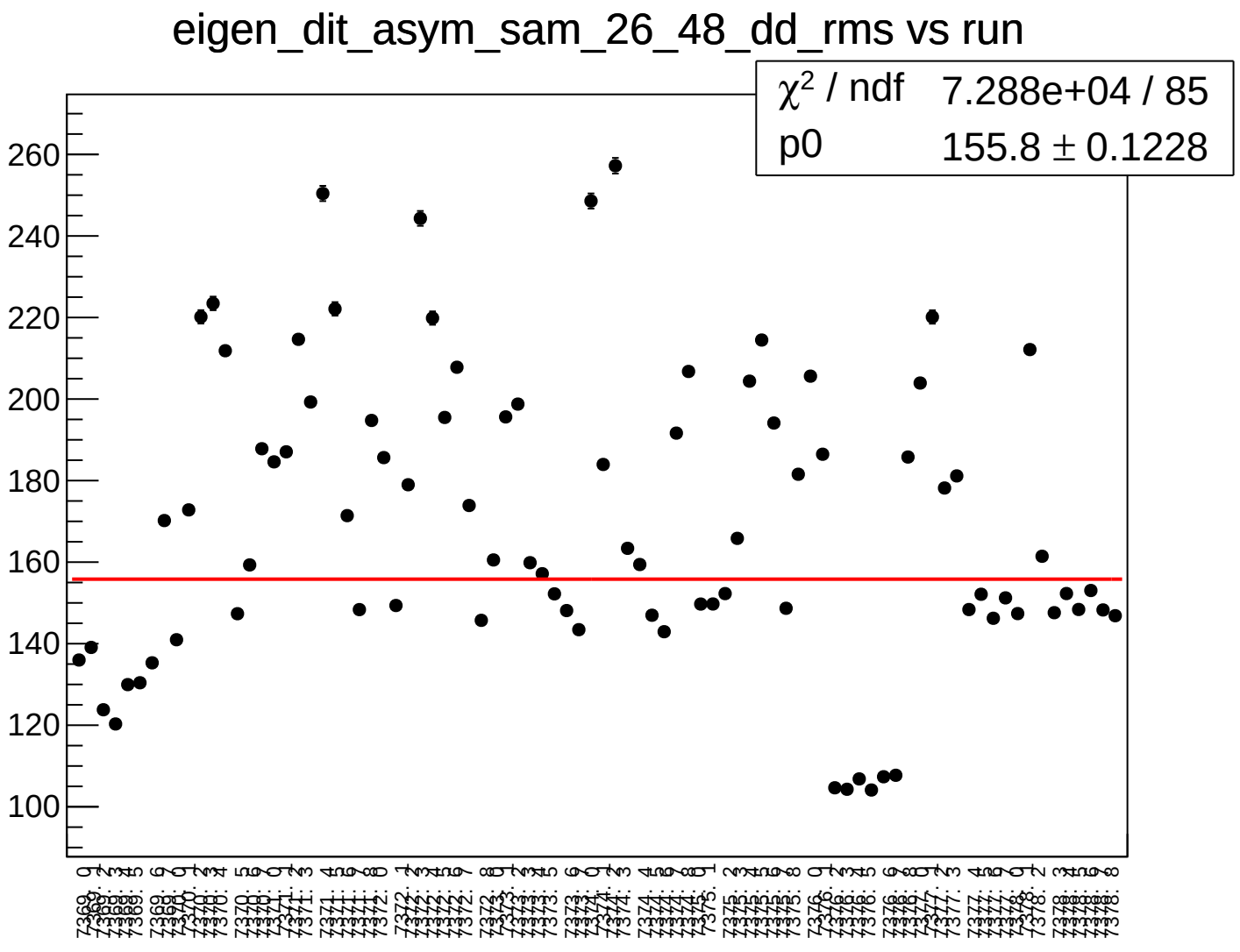

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 7.288e+04 / 85
p0 155.8 ± 0.1228
260
240
220
200
180
160
140
120
100

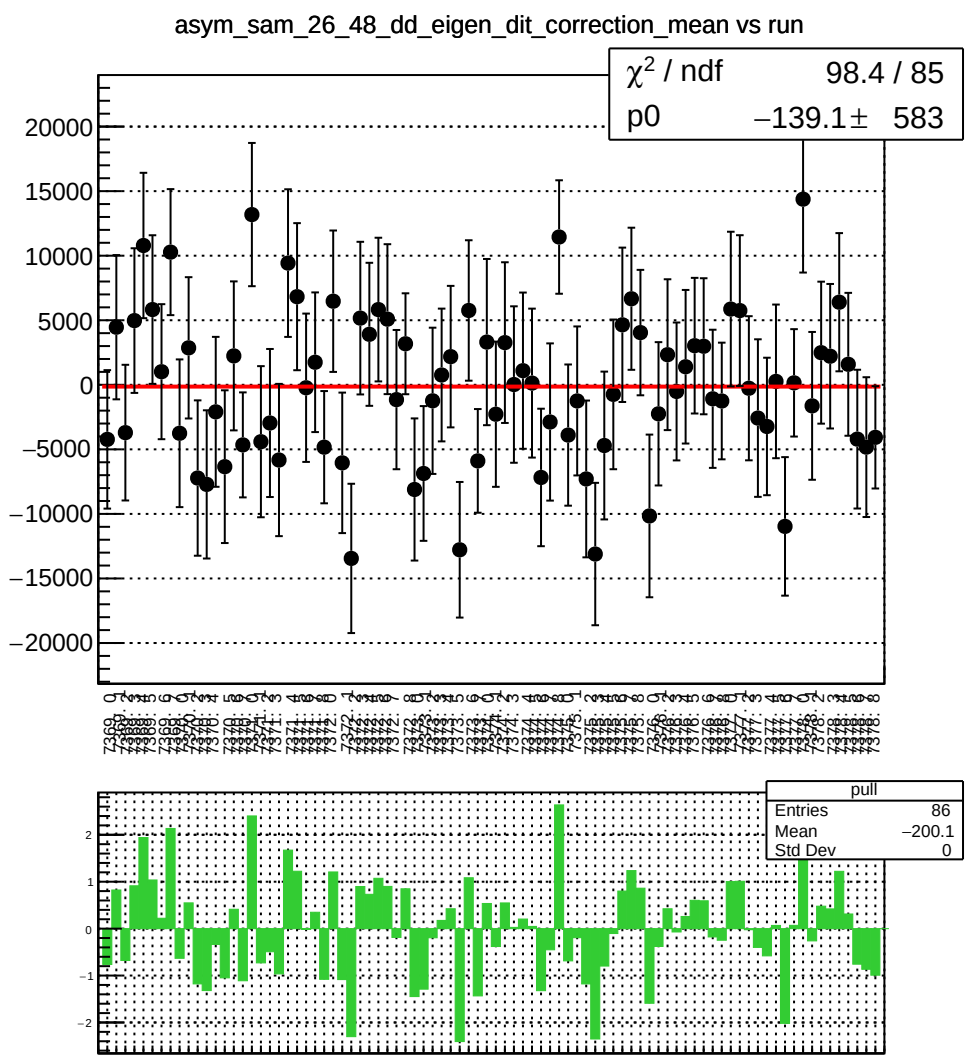

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 98.4 / 85
p0 −139.1± 583
pull
Entries 86
Mean −200.1
Std Dev 0

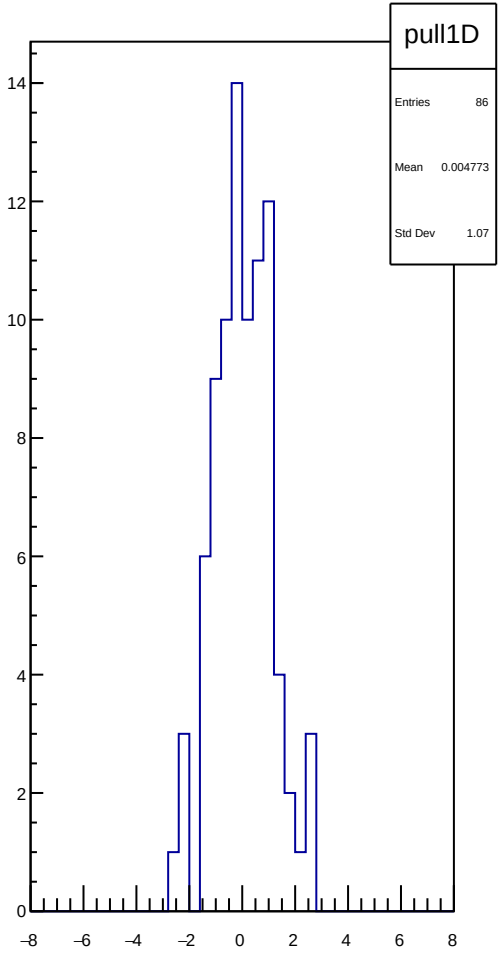

pull1D
Entries 86
Mean 0.004773
Std Dev 1.07

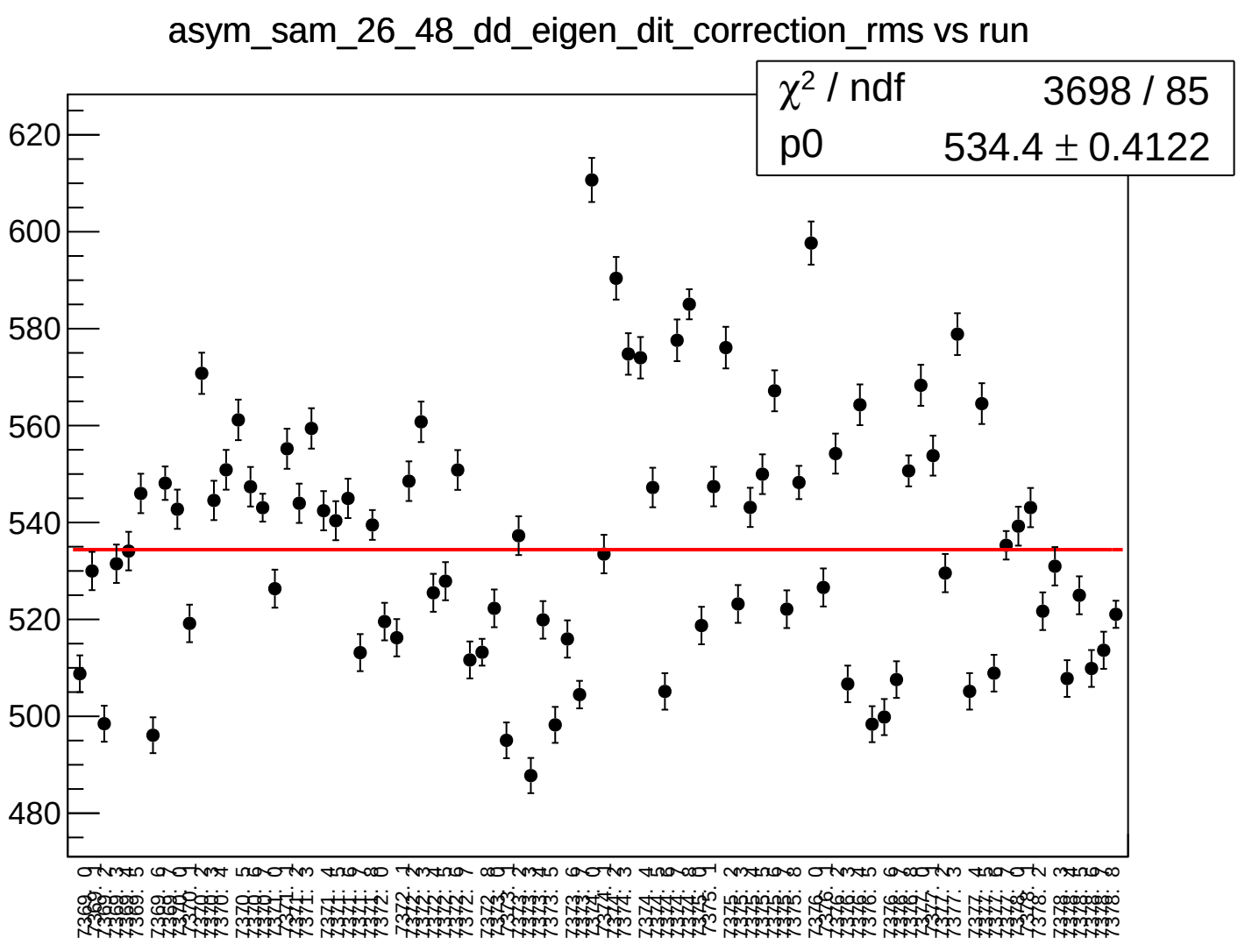

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 3698 / 85
p0 534.4 ± 0.4122
620
600
580
560
540
520
500
480

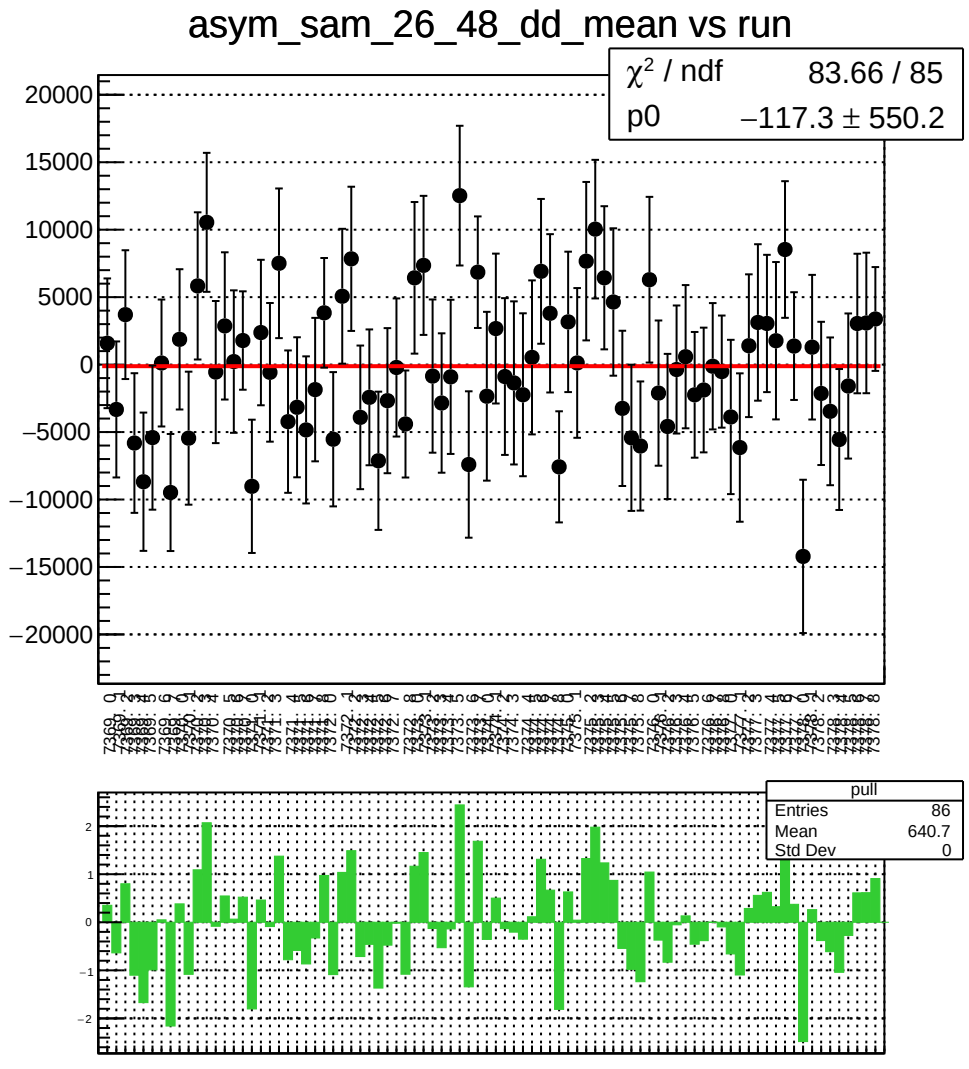

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 115.3 / 85
p0 −270.9 ± 173.6
pull
Entries 86
Mean 104.1
Std Dev 0
pull1D
Entries 86
Mean 0.01711
Std Dev 1.158

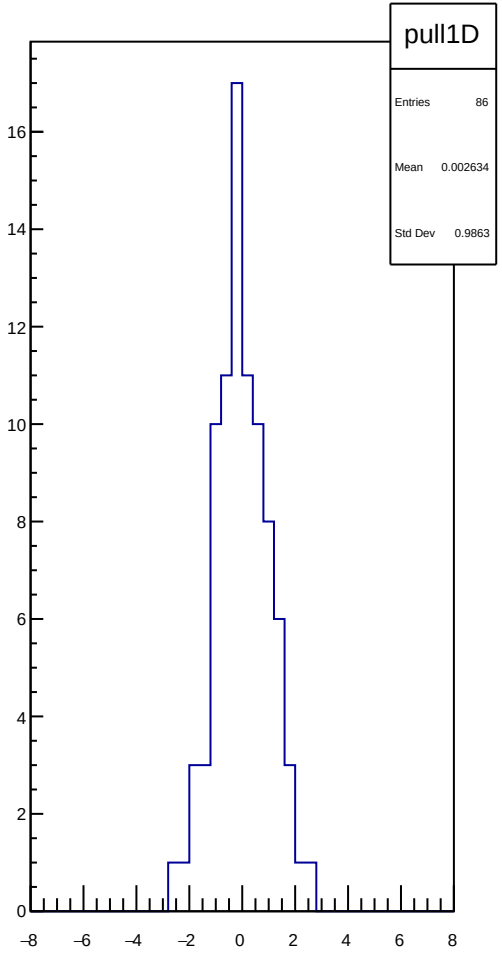

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 7.288e+04 / 85
p0 155.8 ± 0.1228
260
240
220
200
180
160
140
120
100

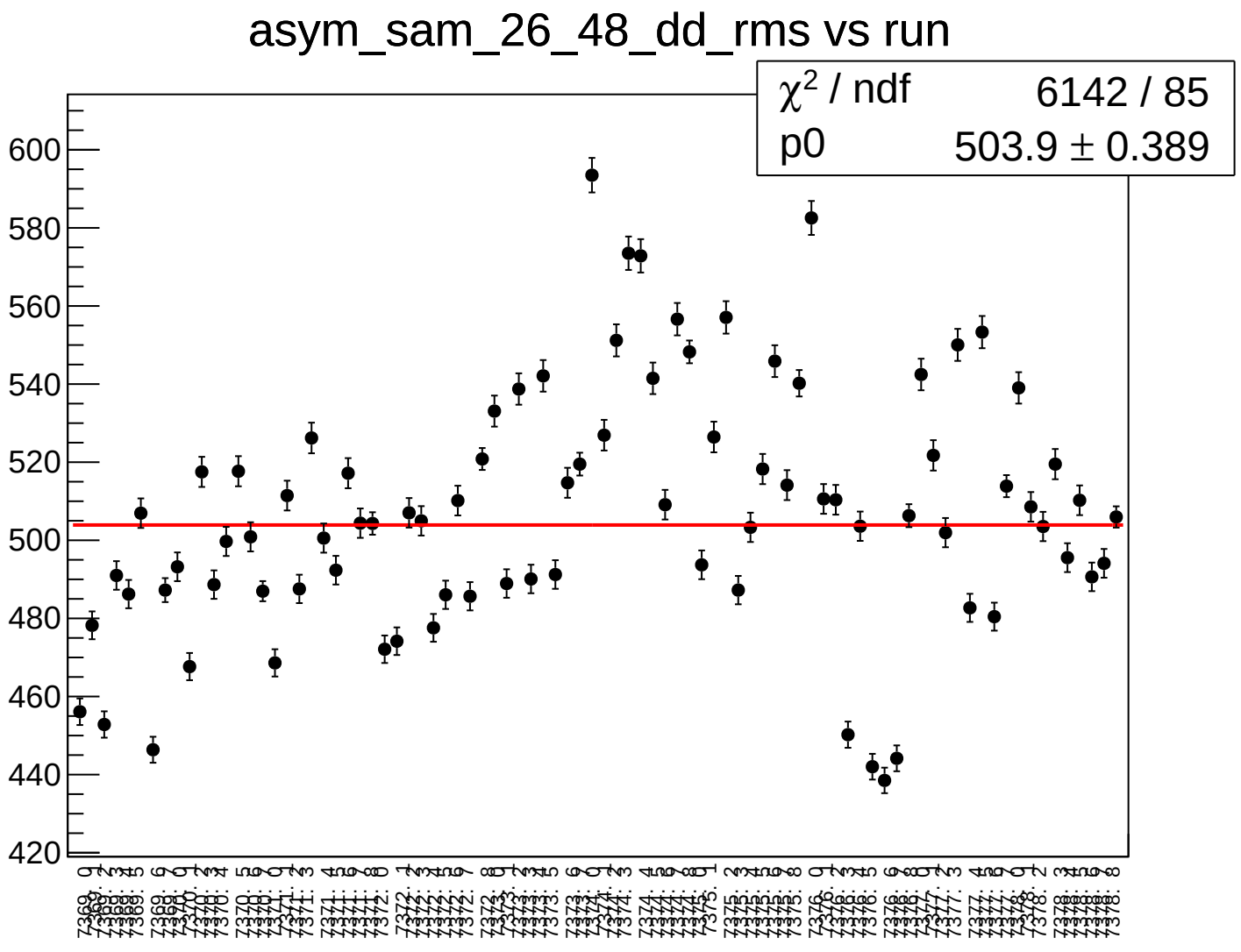

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.4 / 85
p0 −139.1± 583
pull
Entries 86
Mean −200.1
Std Dev 0

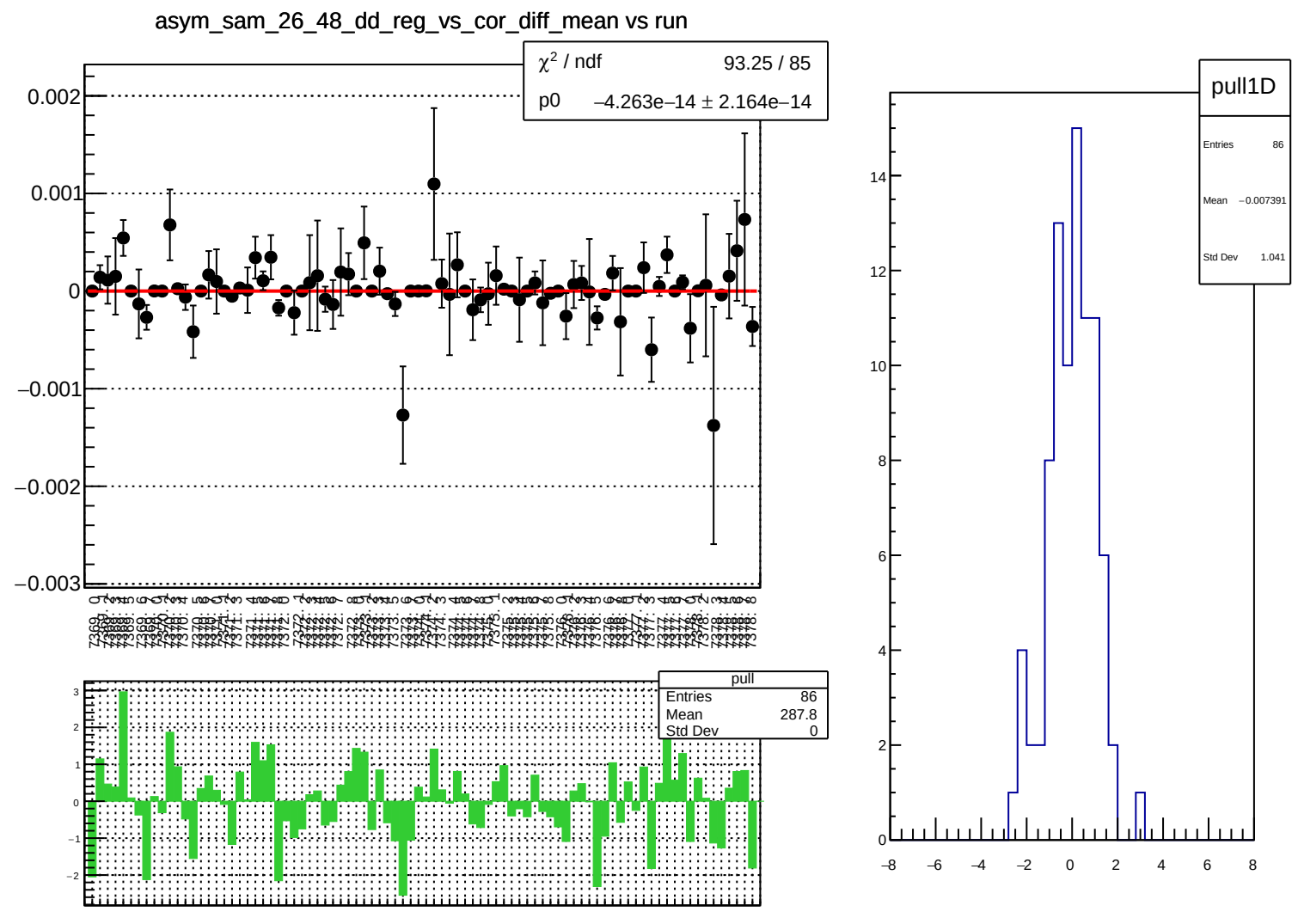

pull1D
Entries 86
Mean 0.004773
Std Dev 1.07

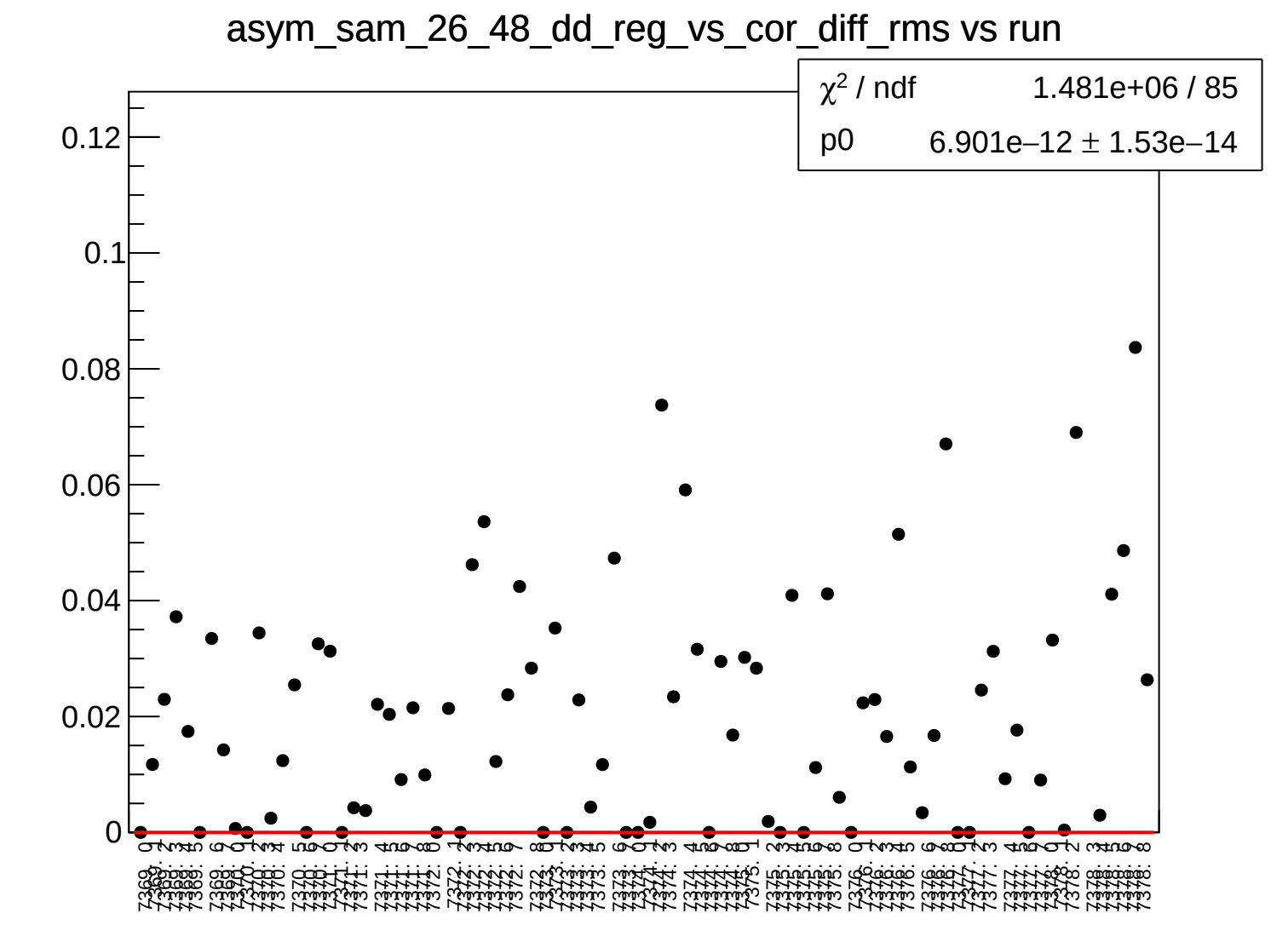

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3698 / 85
p0 534.4 ± 0.4122
620
600
580
560
540
520
500
480


asym_sam_26_48_dd_mean vs run
χ² / ndf 83.66 / 85
p0 −117.3 ± 550.2
pull
Entries 86
Mean 640.7
Std Dev 0

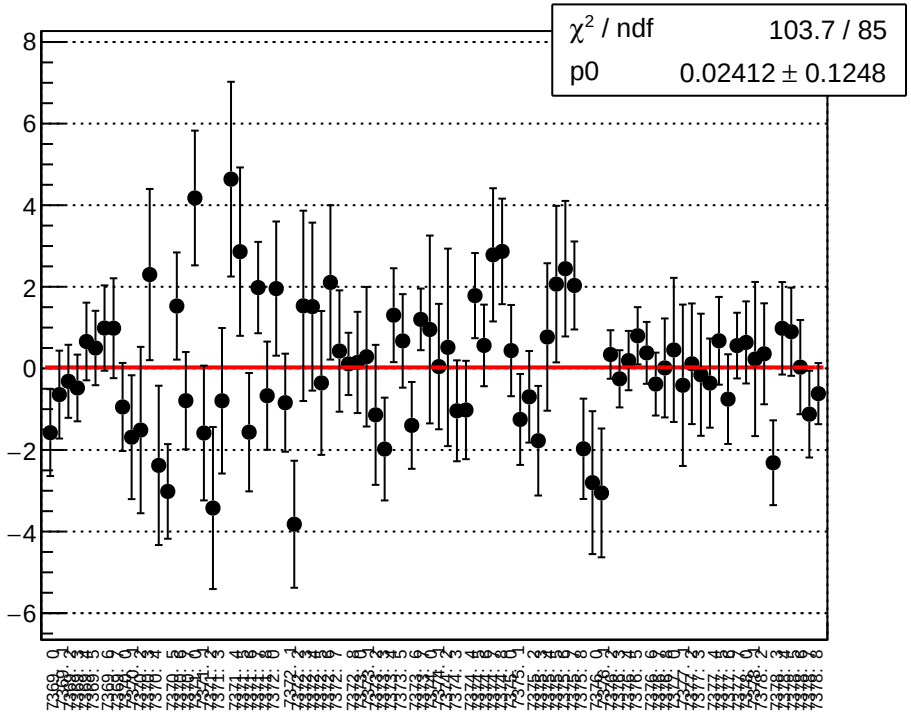

pull1D
Entries 86
Mean 0.002634
Std Dev 0.9863

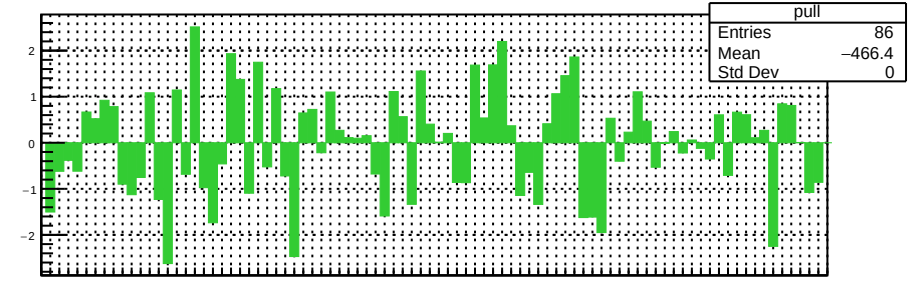

asym_sam_26_48_dd_rms vs run
χ² / ndf 6142 / 85
p0 503.9 ± 0.389
600
580
560
540
520
500
480
460
440
420

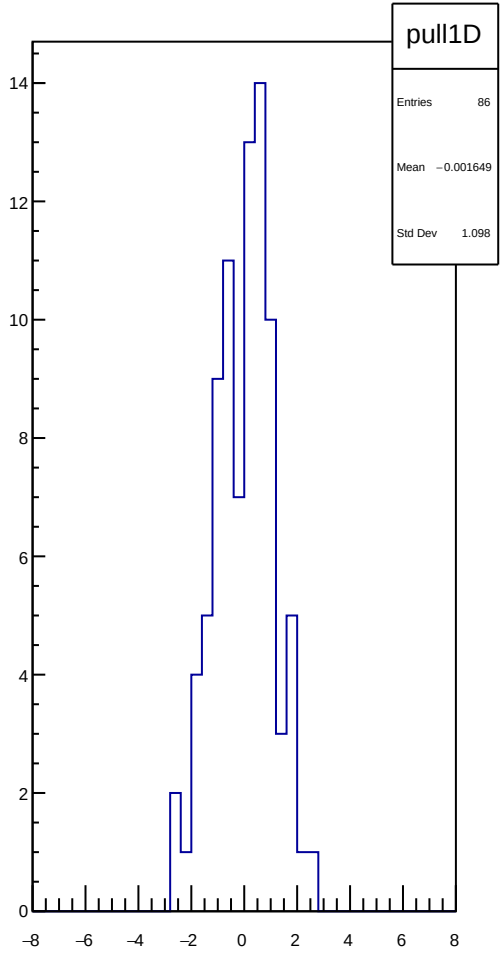

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.25 / 85
p0 −4.263e−14 ± 2.164e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 86
Mean 287.8
Std Dev 0
pull1D
Entries 86
Mean −0.007391
Std Dev 1.041

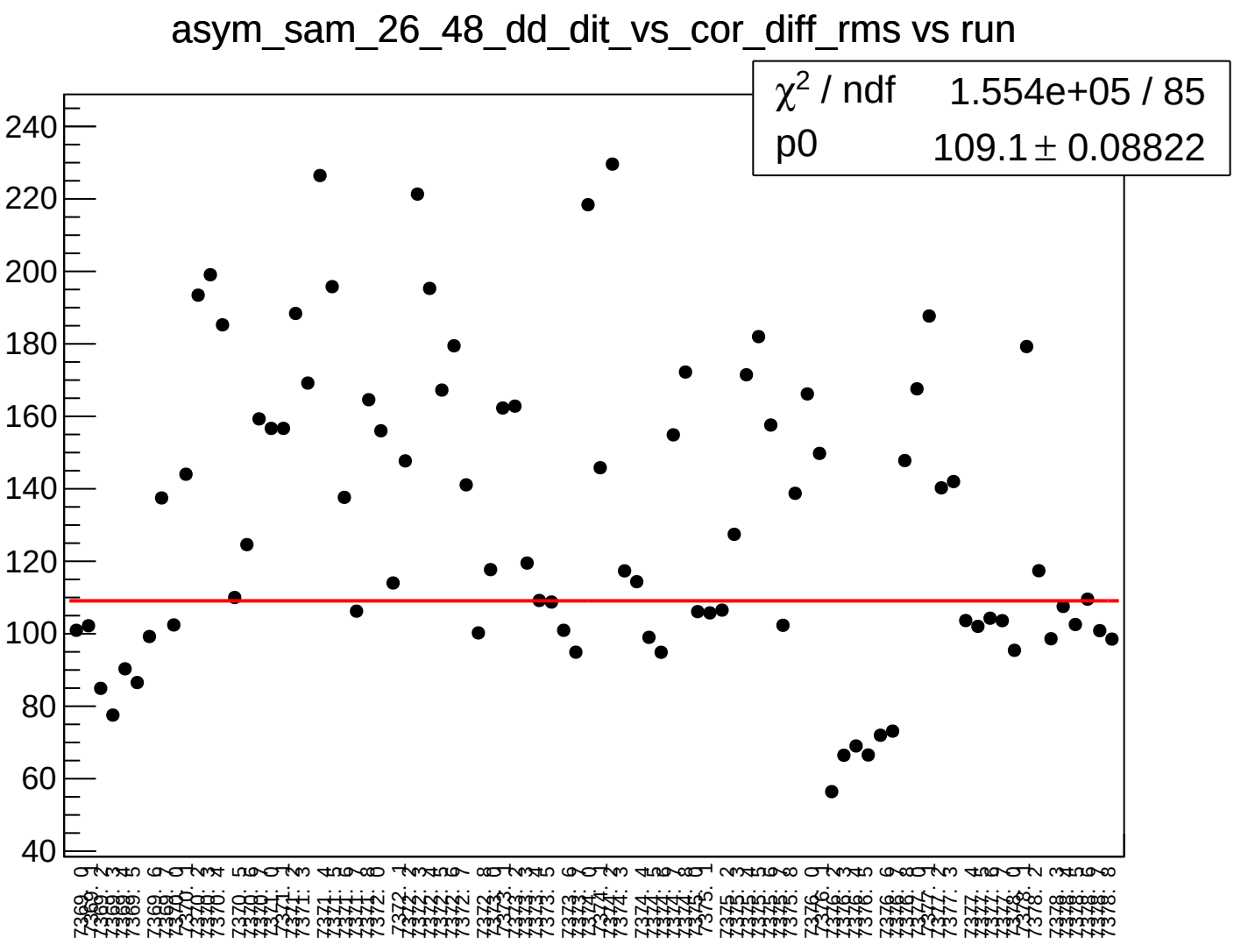

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.481e+06 / 85
p0 6.901e−12 ± 1.53e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run

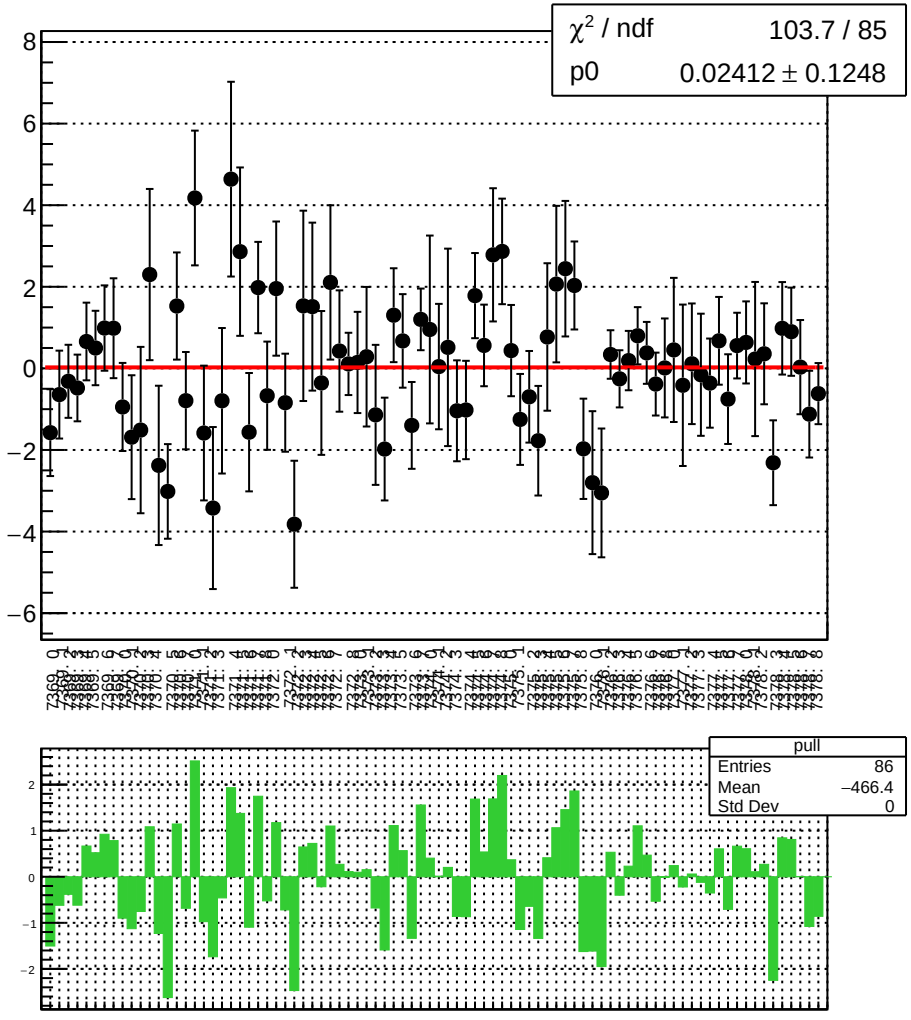


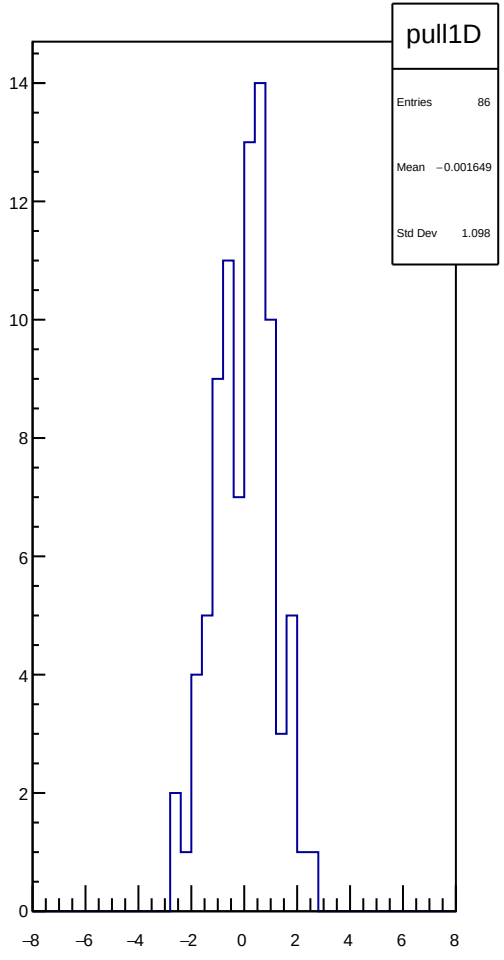


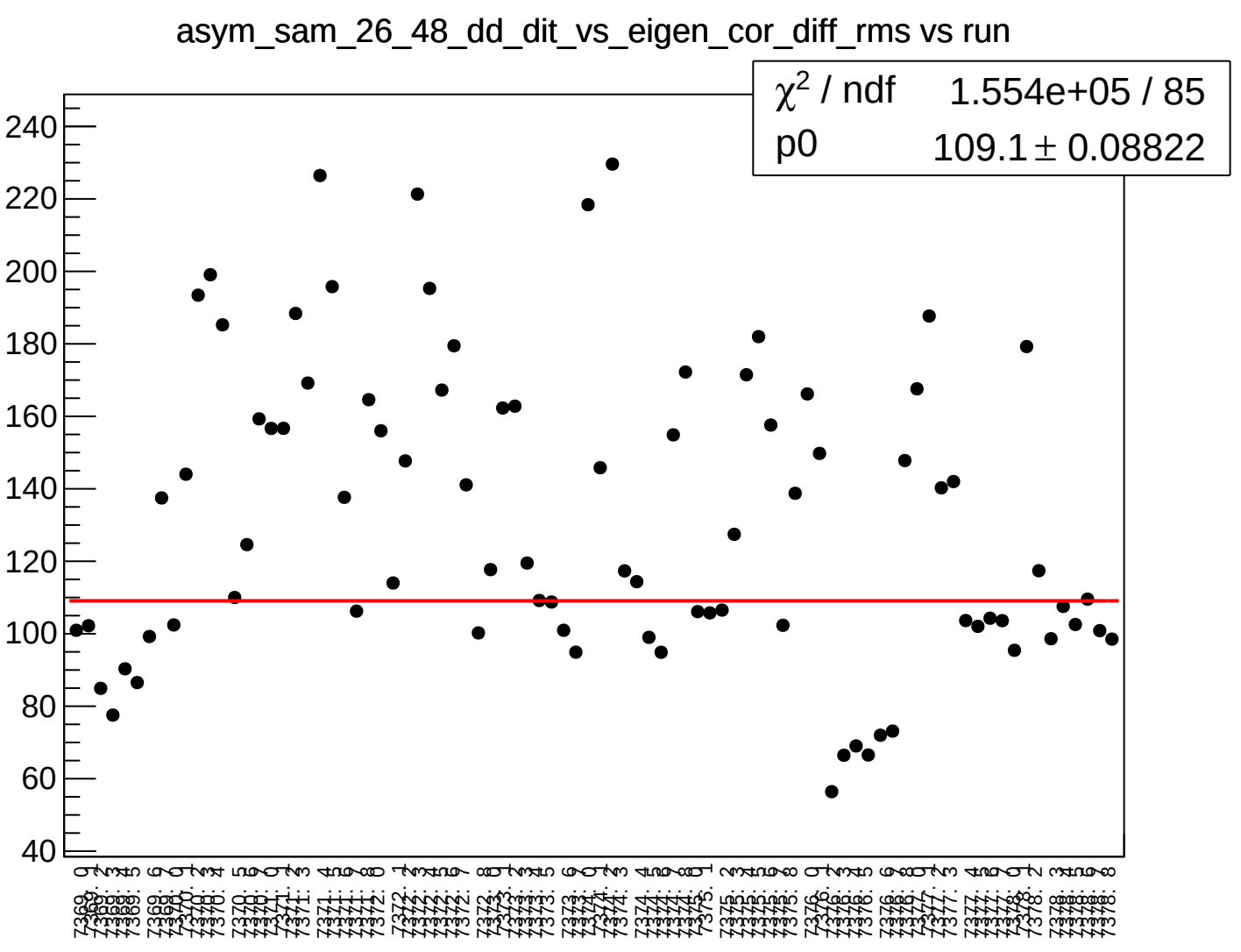


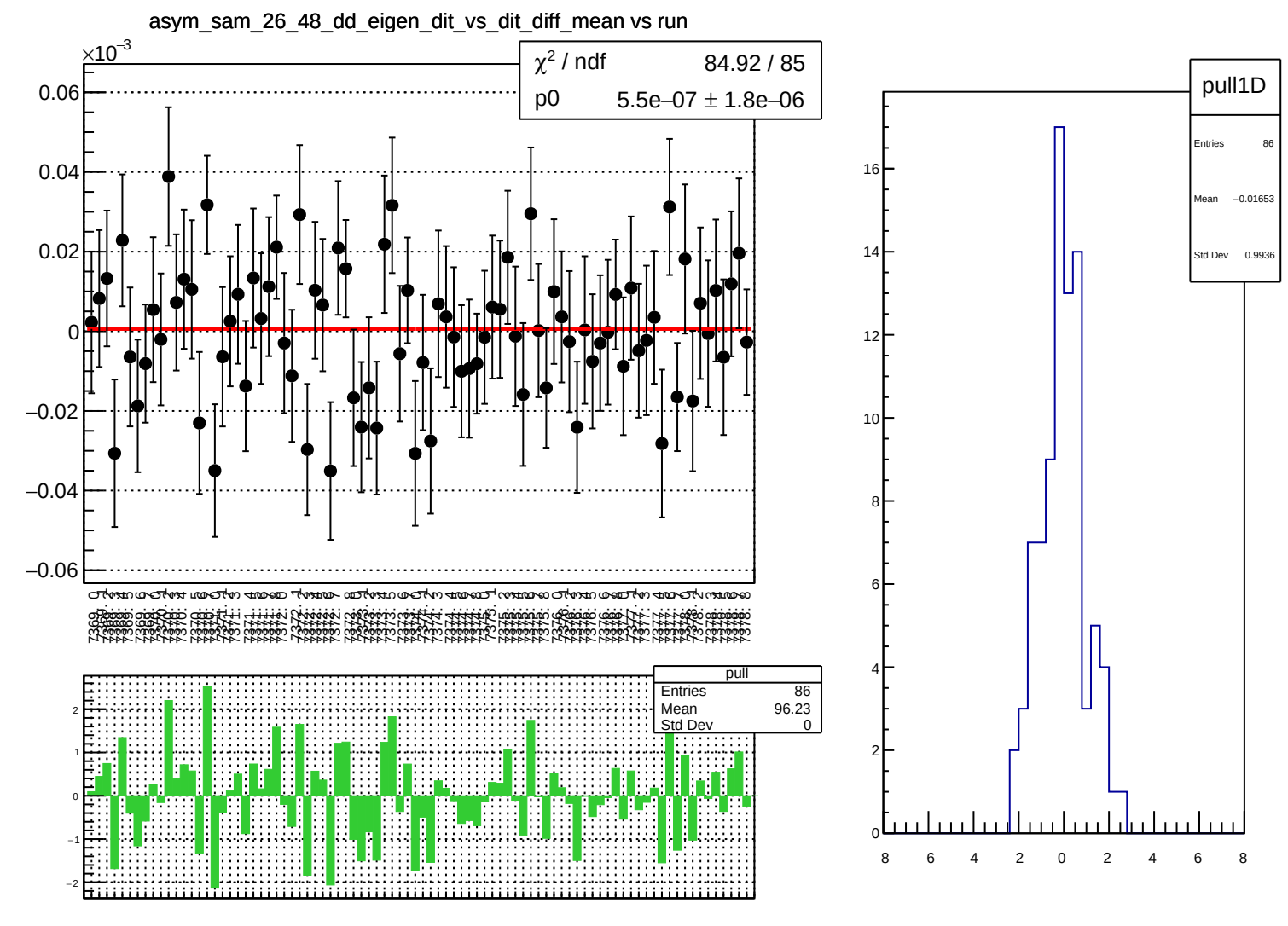

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.554e+05 / 85
p0 109.1 ± 0.08822
240
220
200
180
160
140
120
100
80
60
40

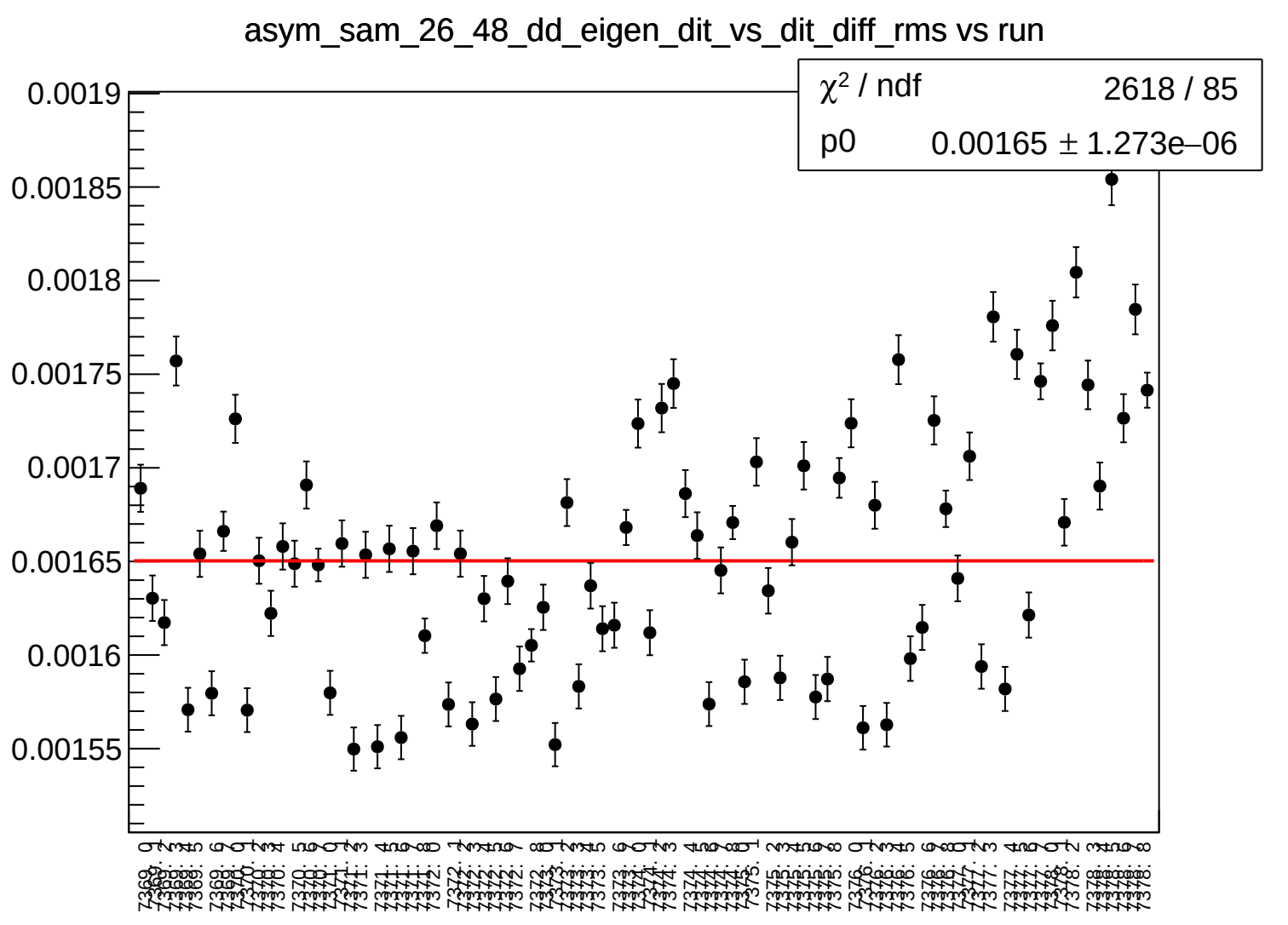
asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run



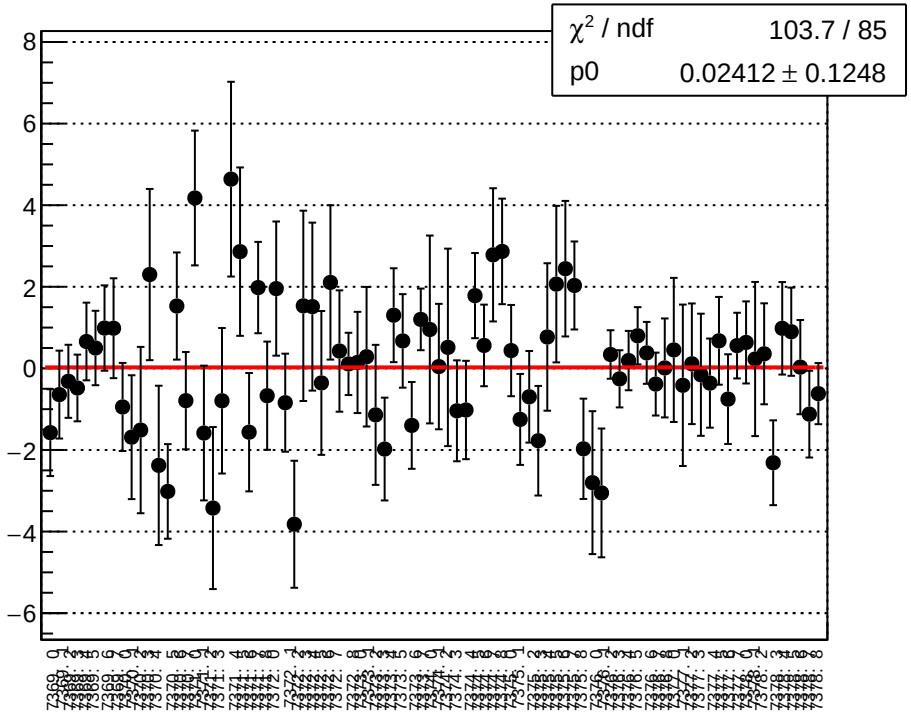


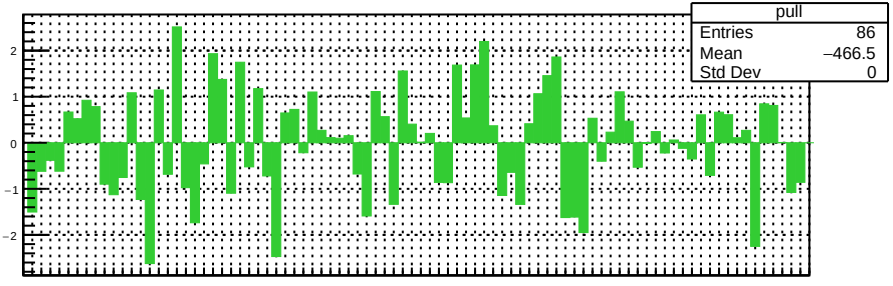

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.554e+05 / 85
p0 109.1 ± 0.08822
240
220
200
180
160
140
120
100
80
60
40

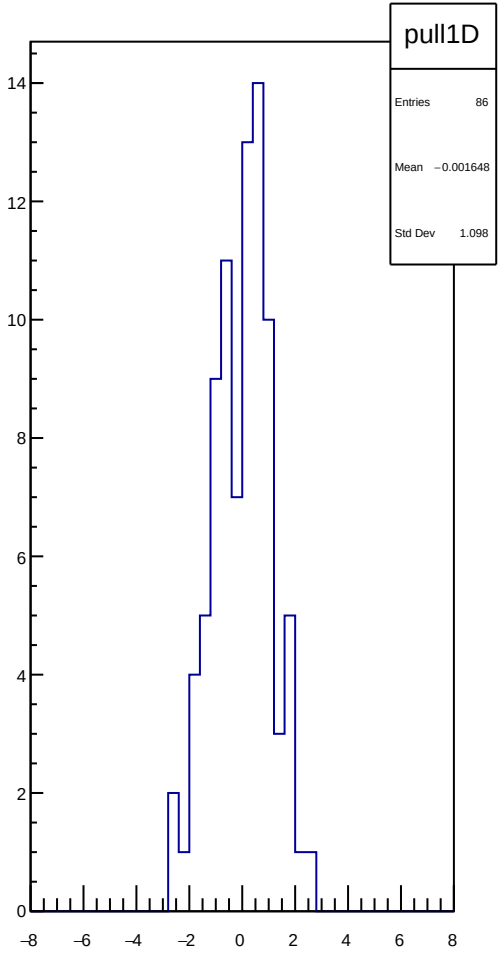

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.92 / 85
p0 5.5e−07 ± 1.8e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 96.23
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01653
Std Dev 0.9936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

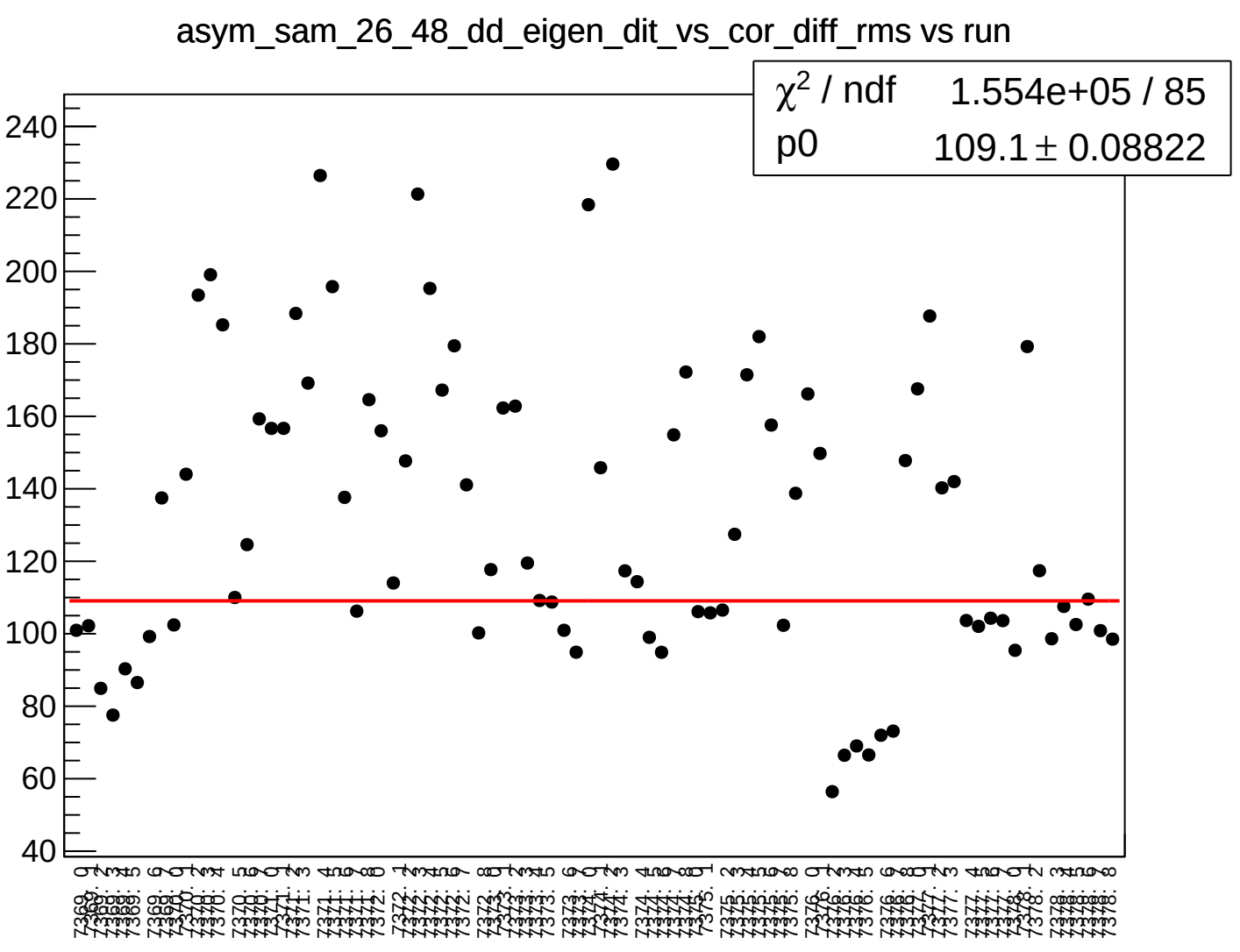

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2618 / 85
p0 0.00165 ± 1.273e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run

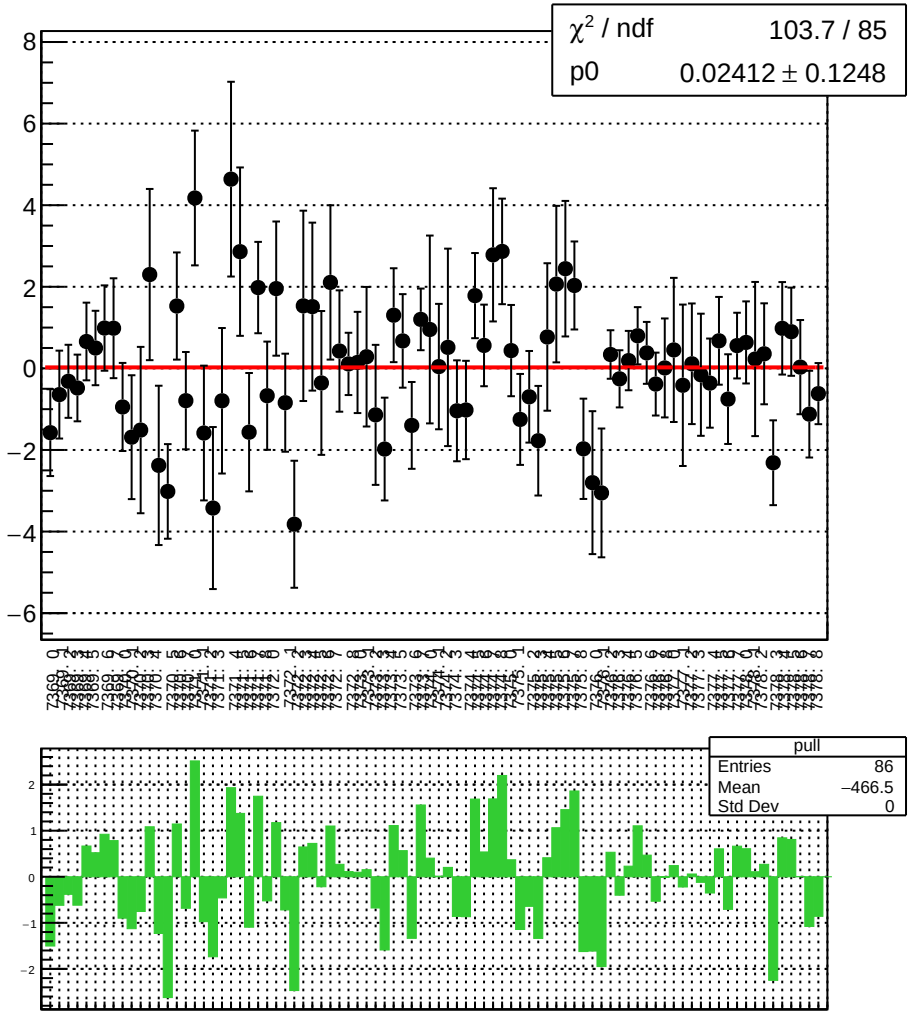


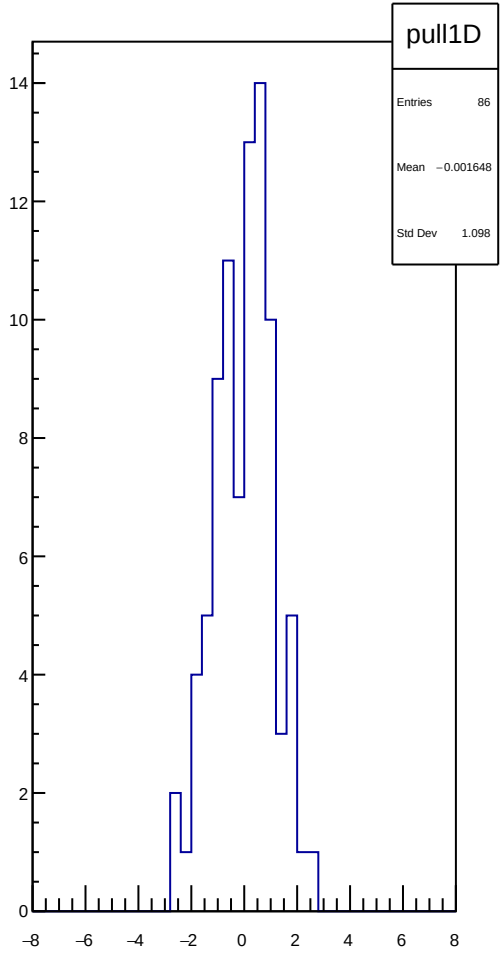


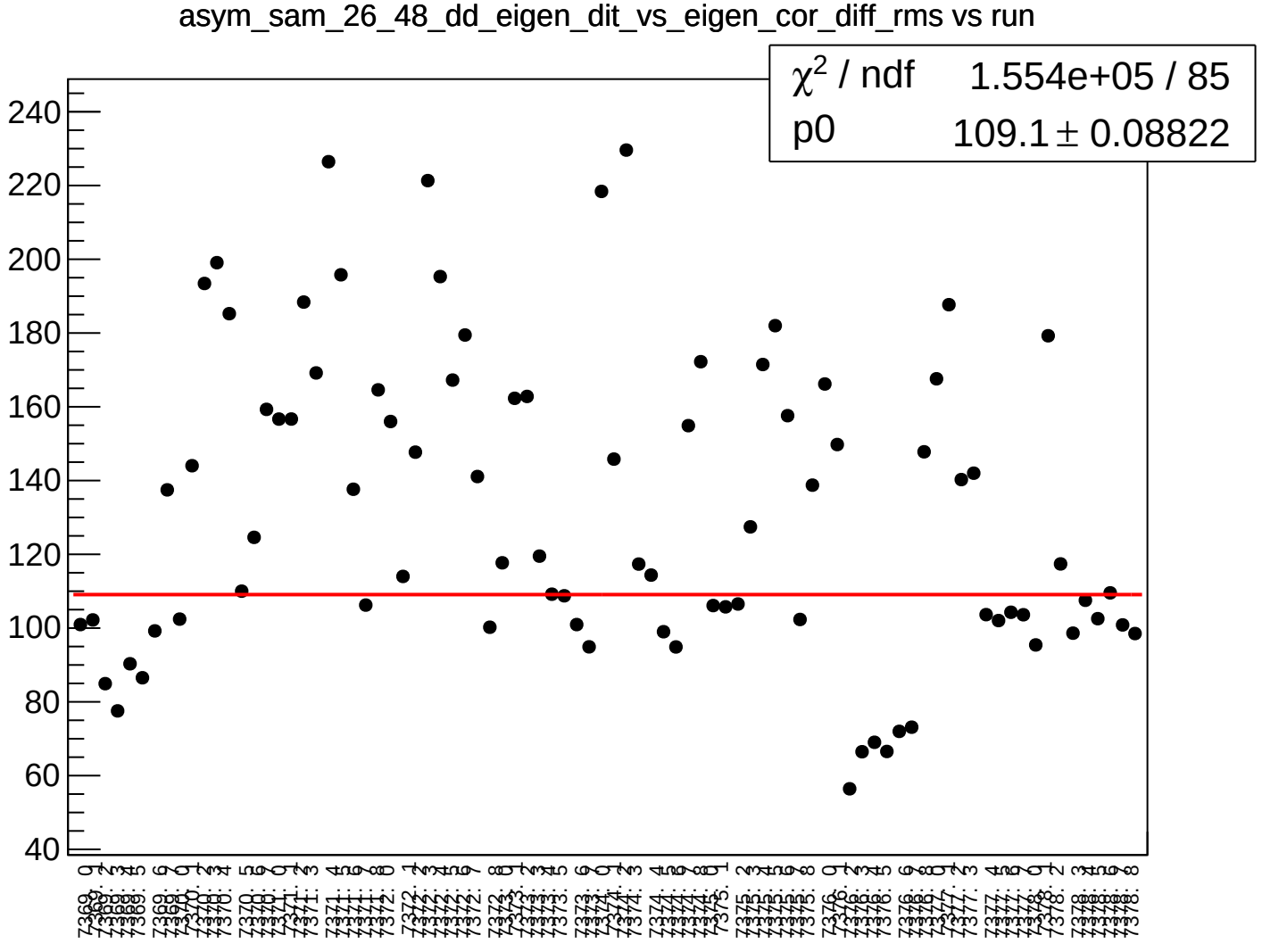


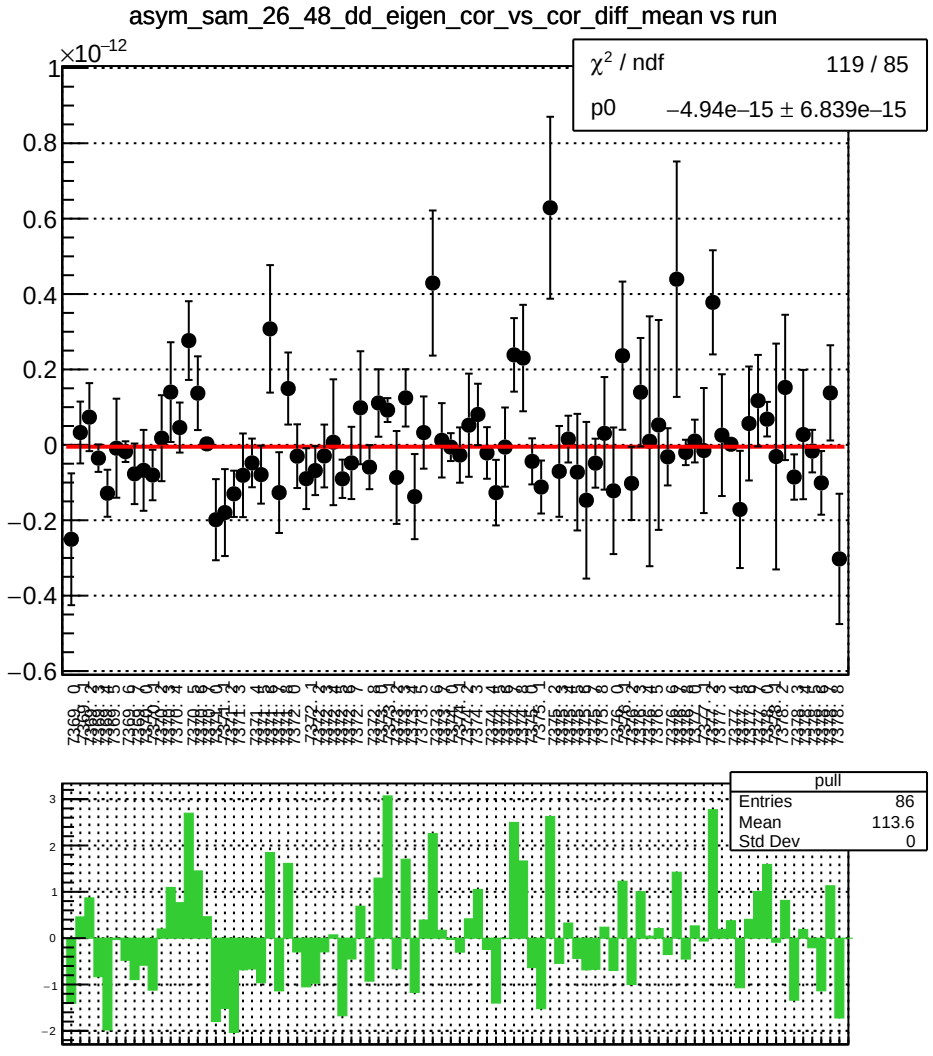

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.554e+05 / 85
p0 109.1 ± 0.08822
240
220
200
180
160
140
120
100
80
60
40

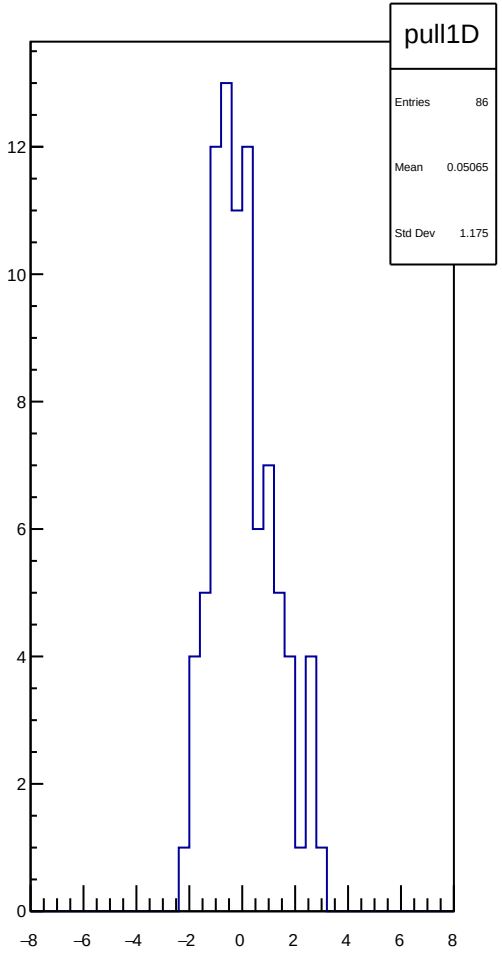
asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

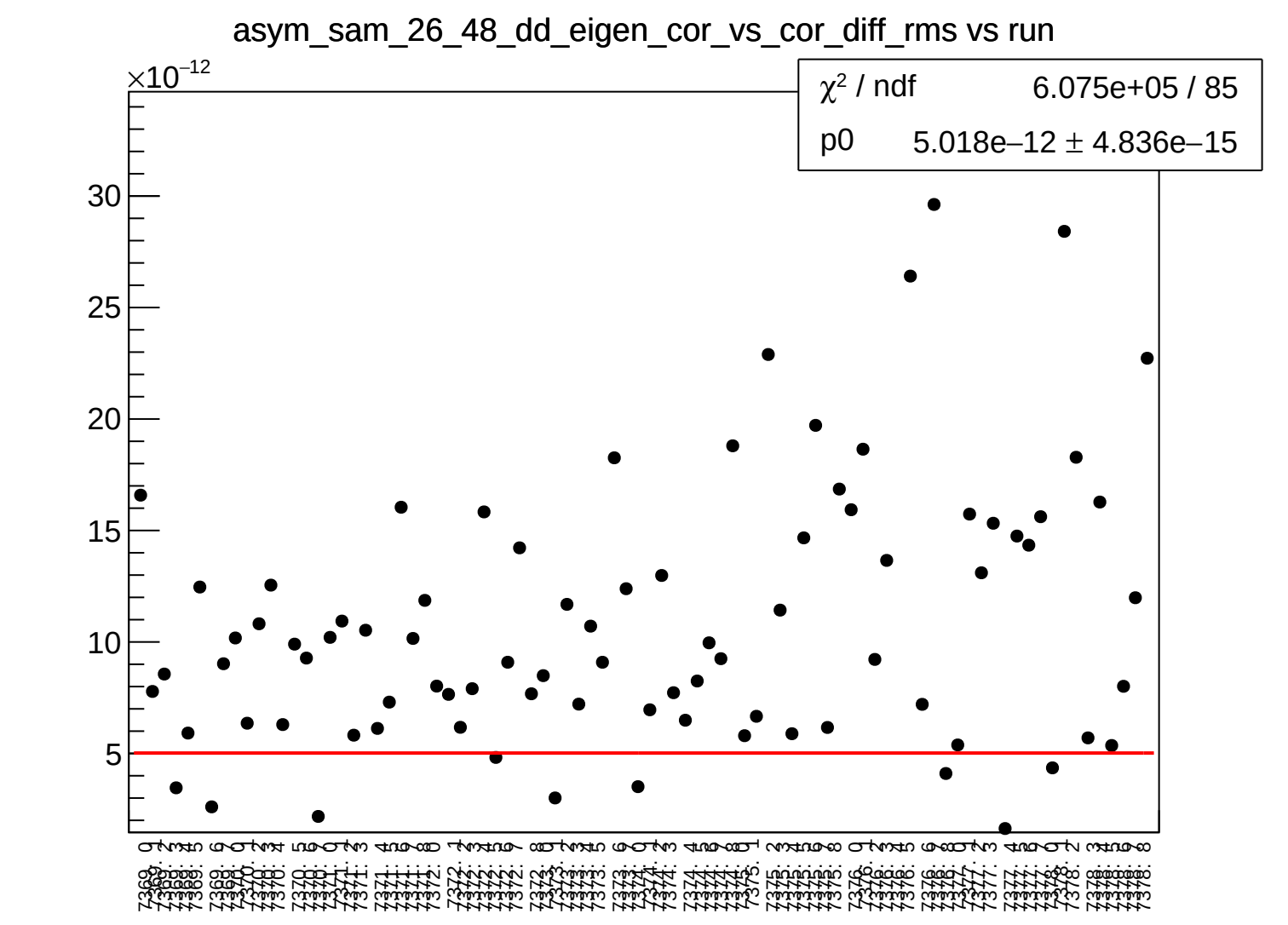


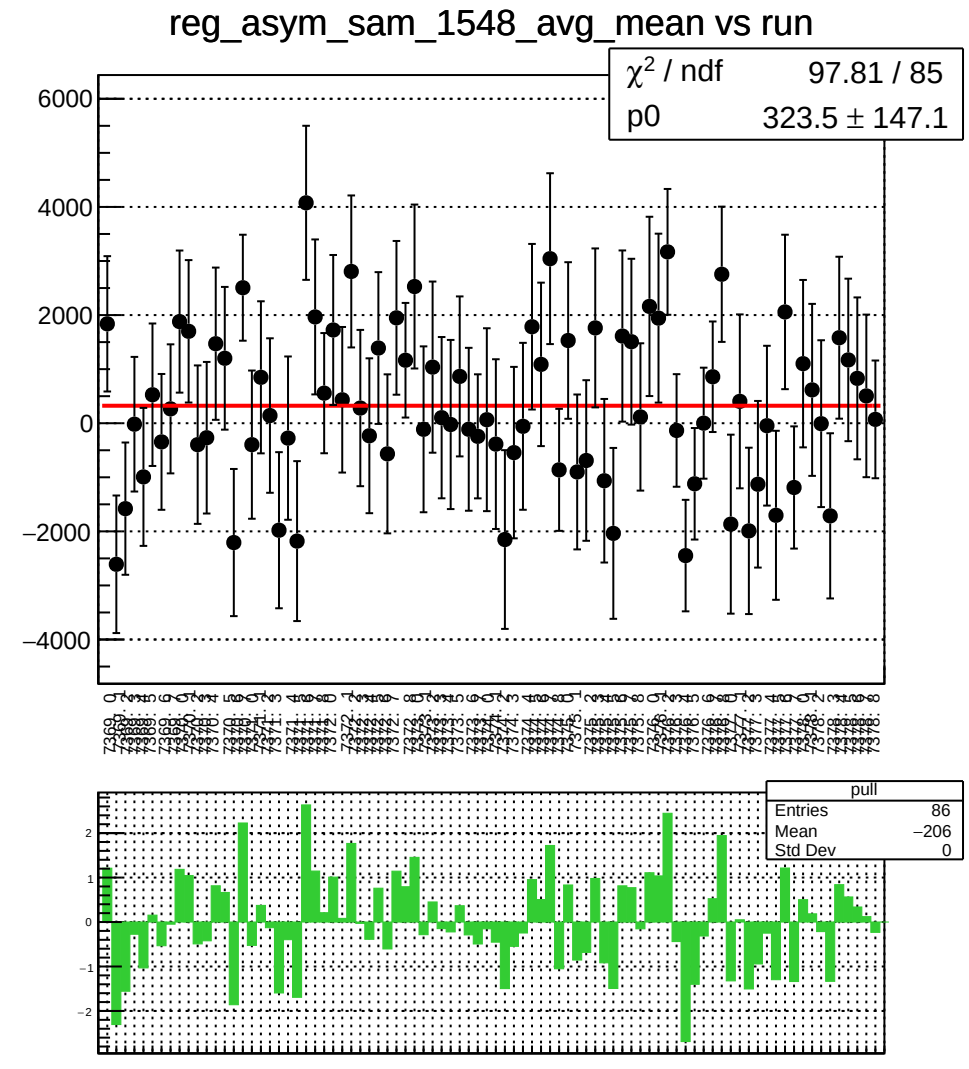


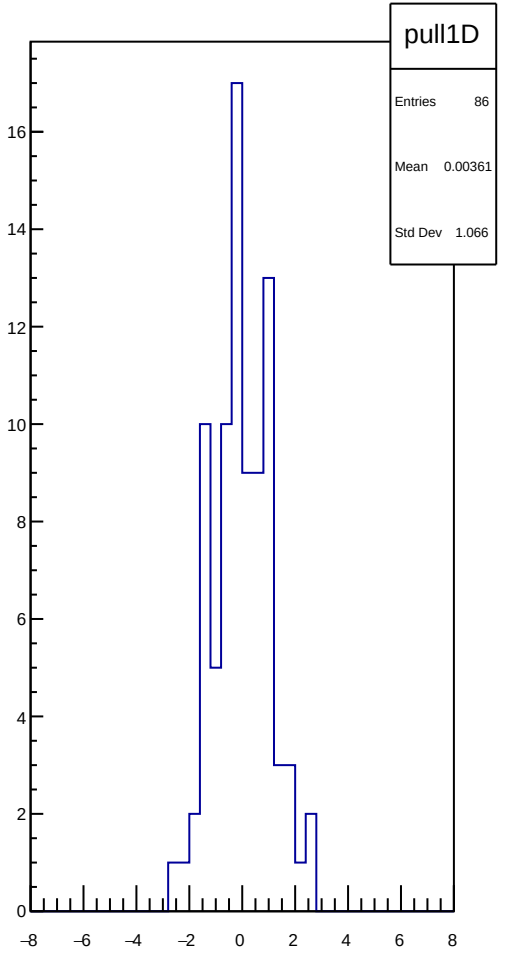

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.554e+05 / 85
p0 109.1 ± 0.08822
240
220
200
180
160
140
120
100
80
60
40

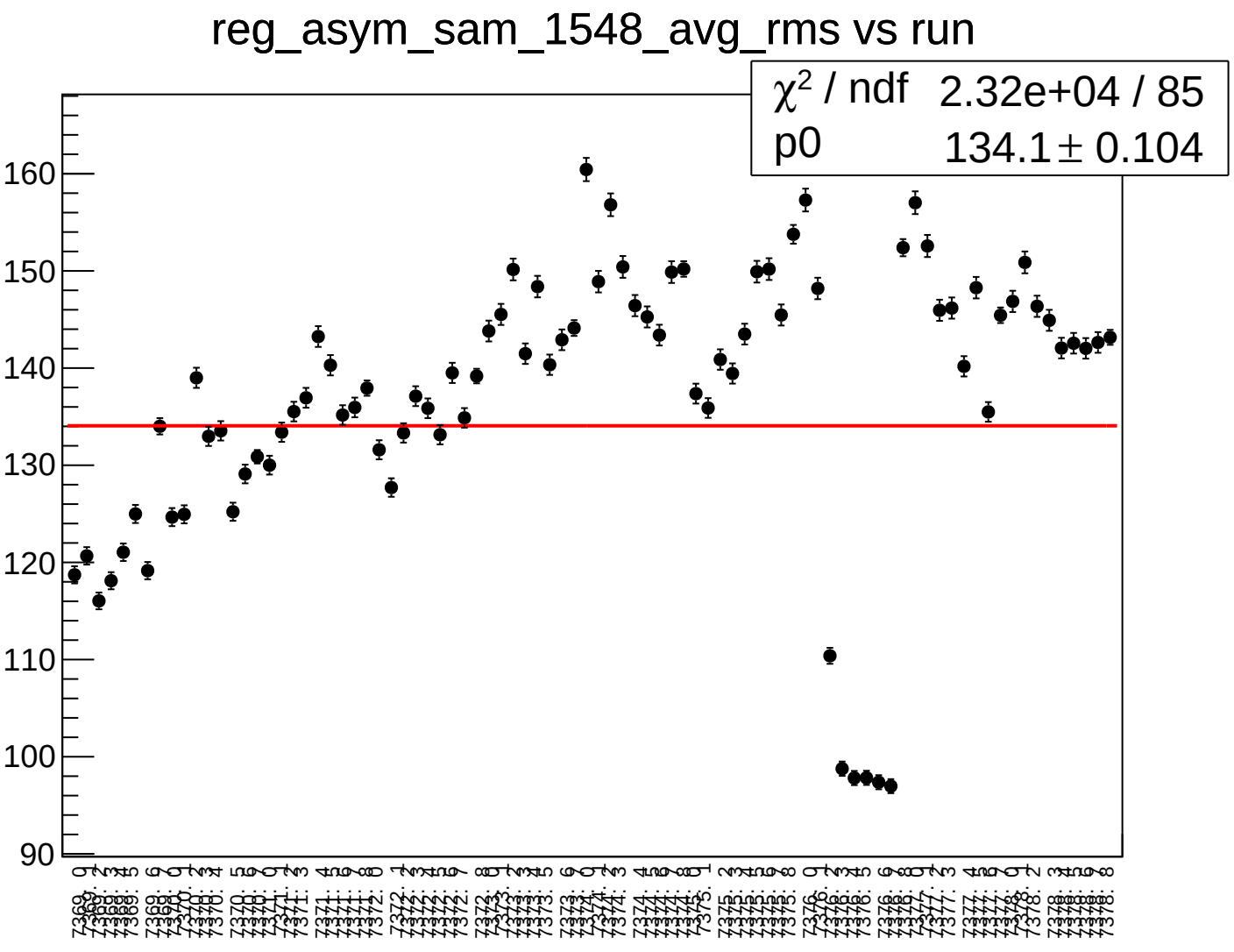

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 119 / 85
p0 −4.94e−15 ± 6.839e−15
pull
Entries 86
Mean 113.6
Std Dev 0

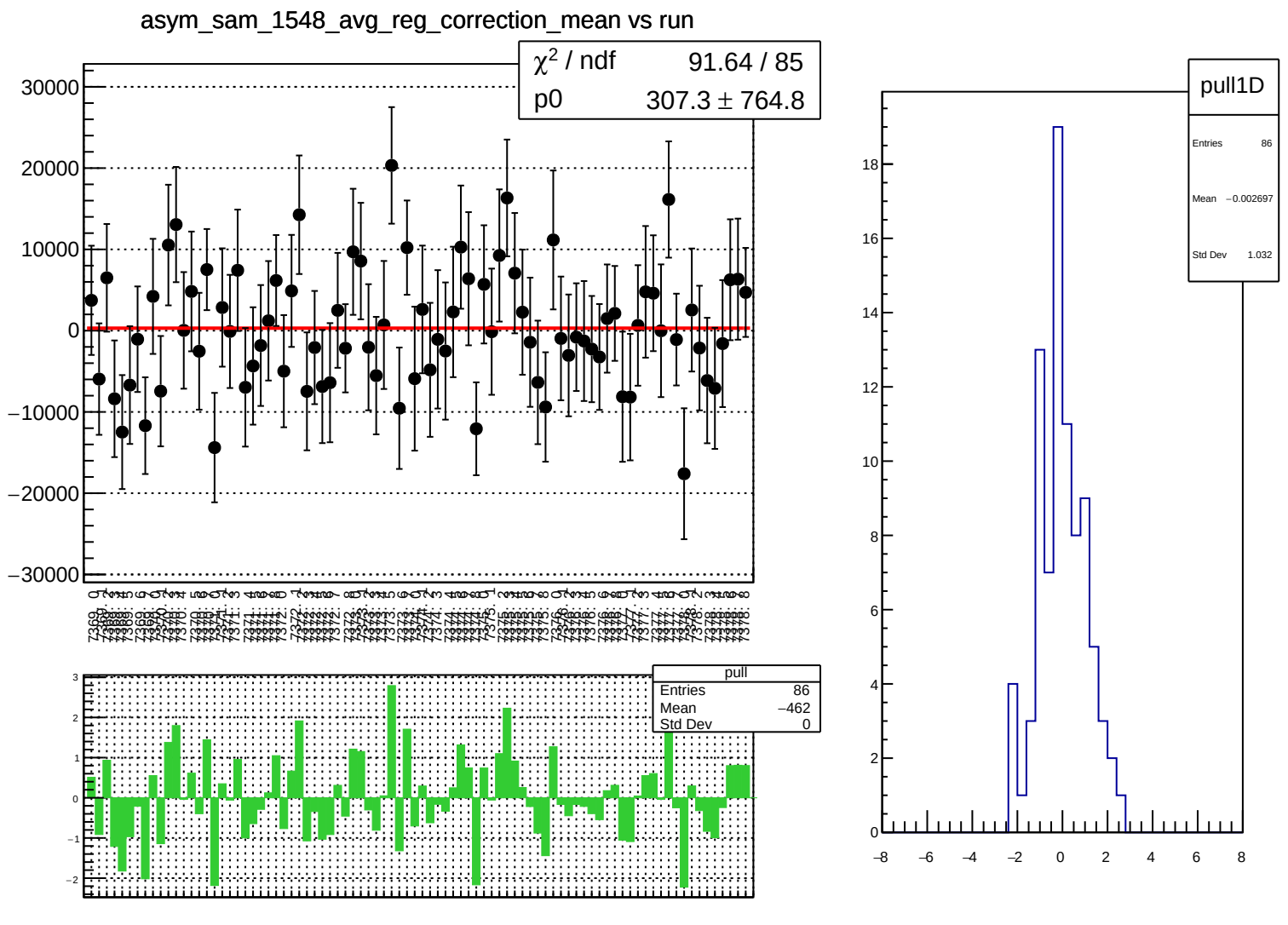

pull1D
Entries 86
Mean 0.05065
Std Dev 1.175

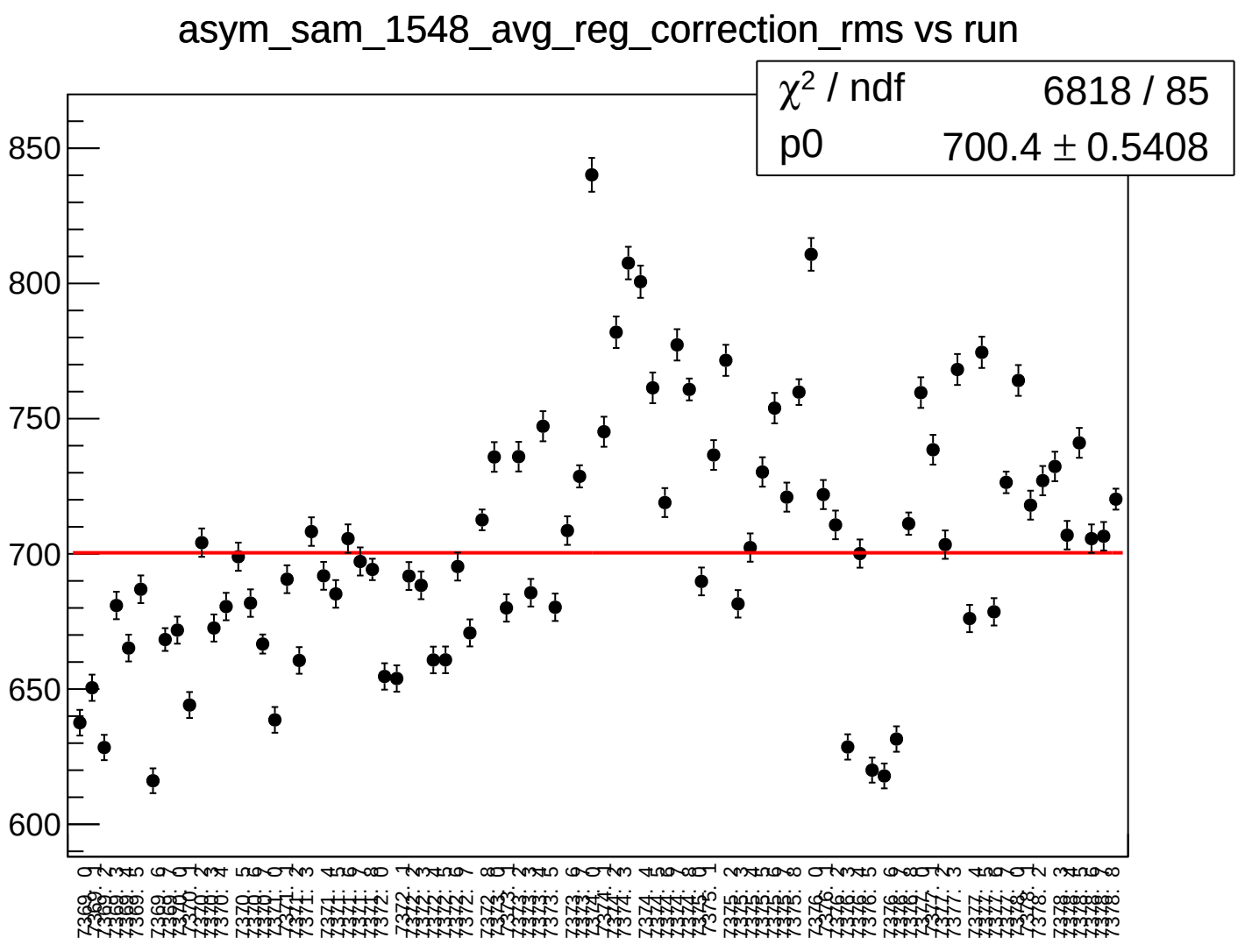

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.075e+05 / 85
p0 5.018e−12 ± 4.836e−15
30
25
20
15
10
5

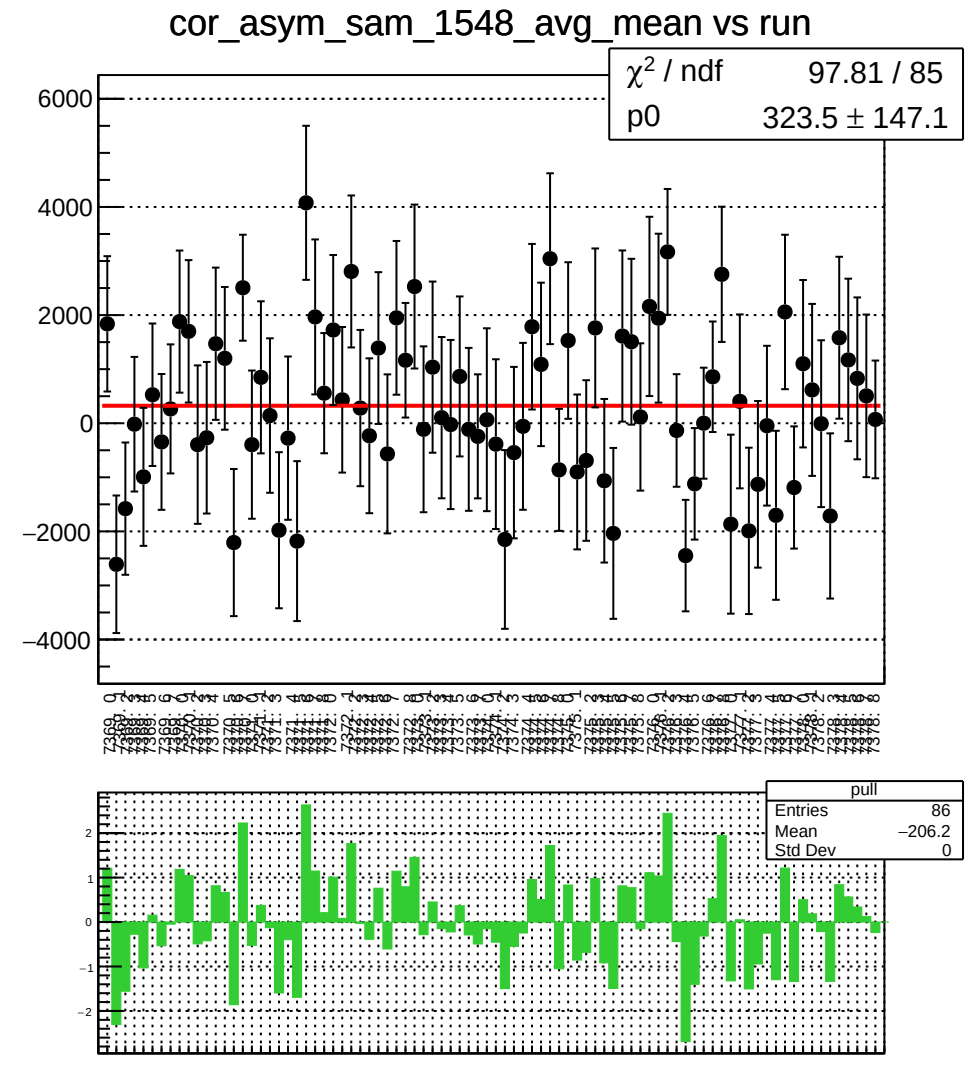

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 97.81 / 85
p0 323.5 ± 147.1
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −206
Std Dev 0
2
1
0
−1
−2

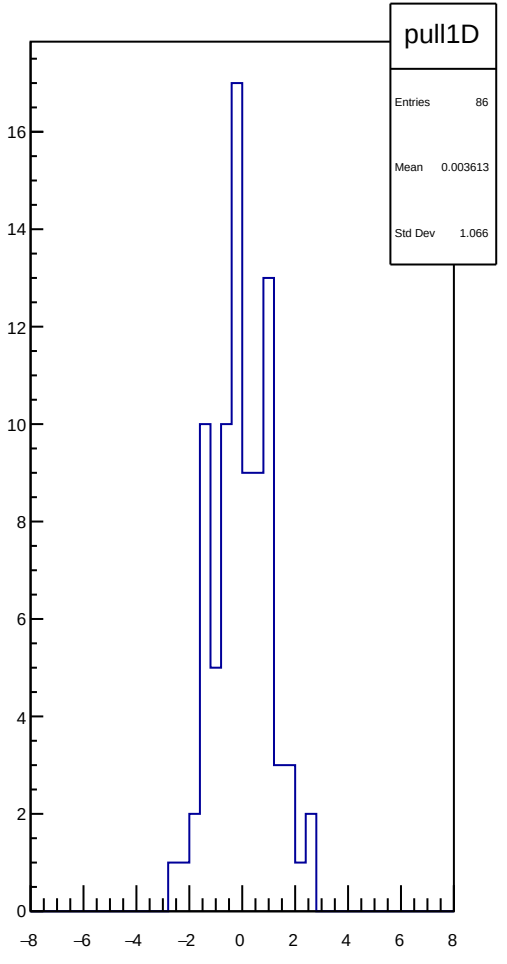

pull1D
Entries 86
Mean 0.00361
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

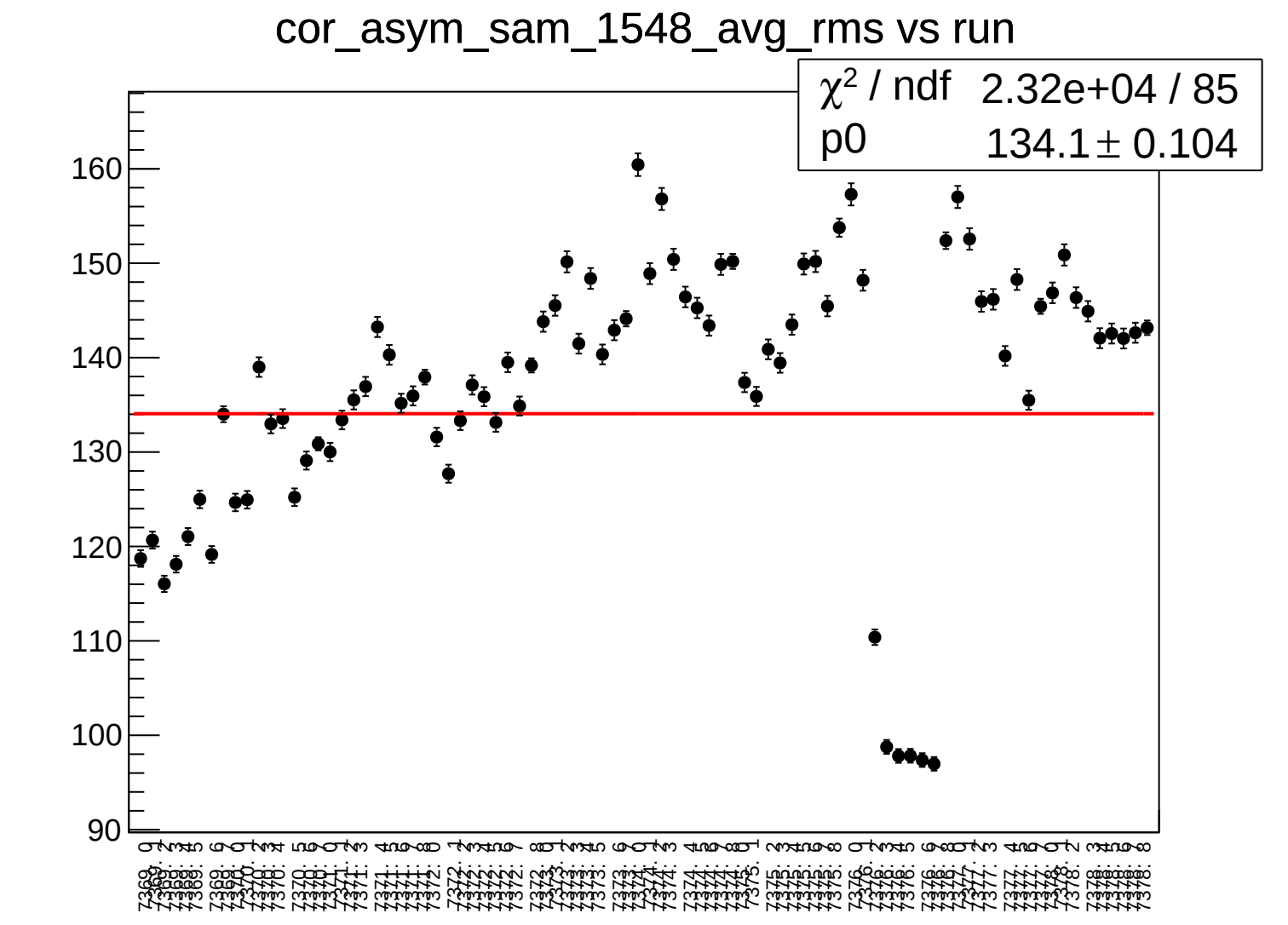

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 2.32e+04 / 85
p0 134.1 ± 0.104
160
150
140
130
120
110
100
90

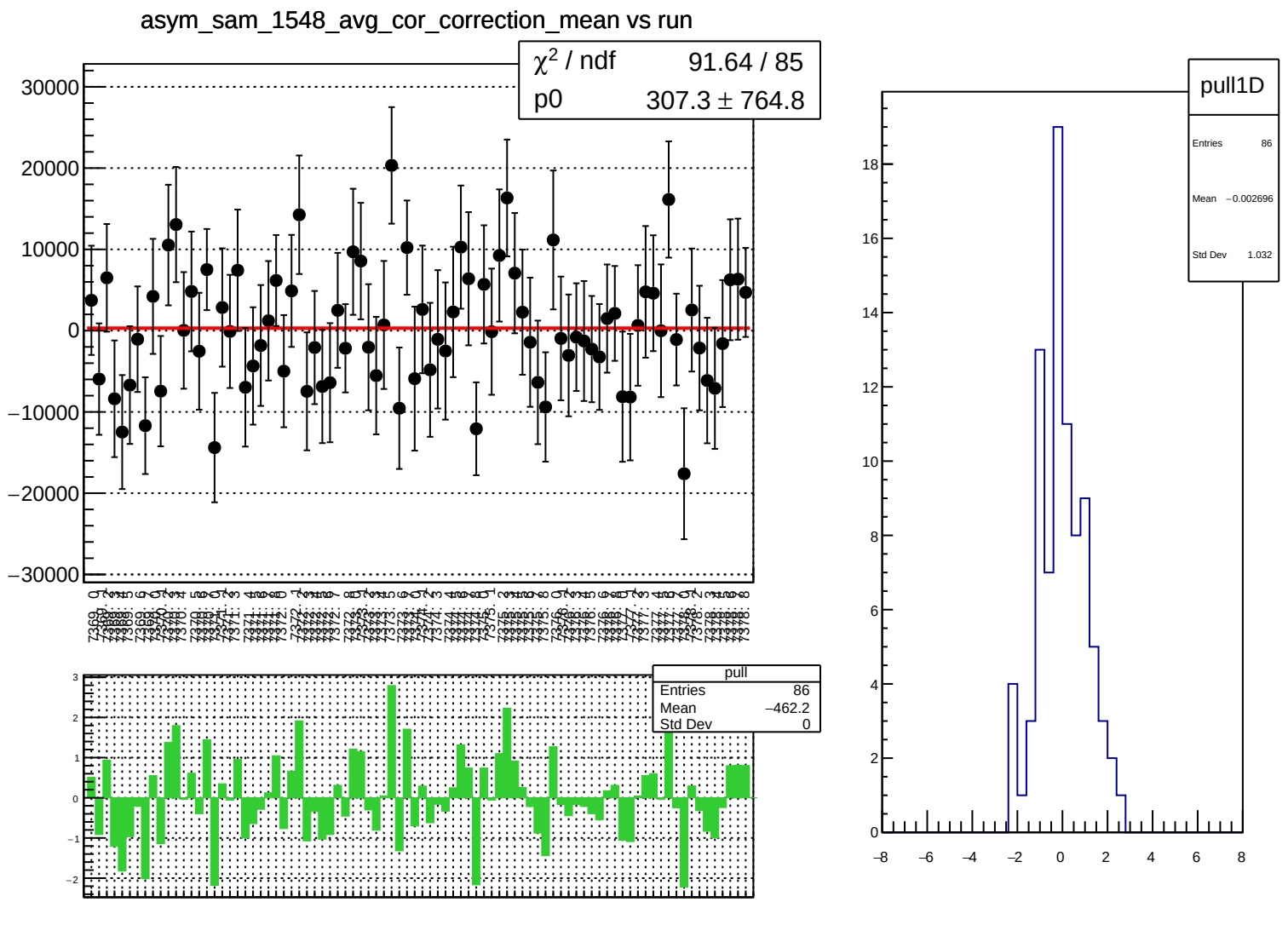

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 91.64 / 85
p0 307.3 ± 764.8
pull
Entries 86
Mean −462
Std Dev 0
pull1D
Entries 86
Mean −0.002697
Std Dev 1.032

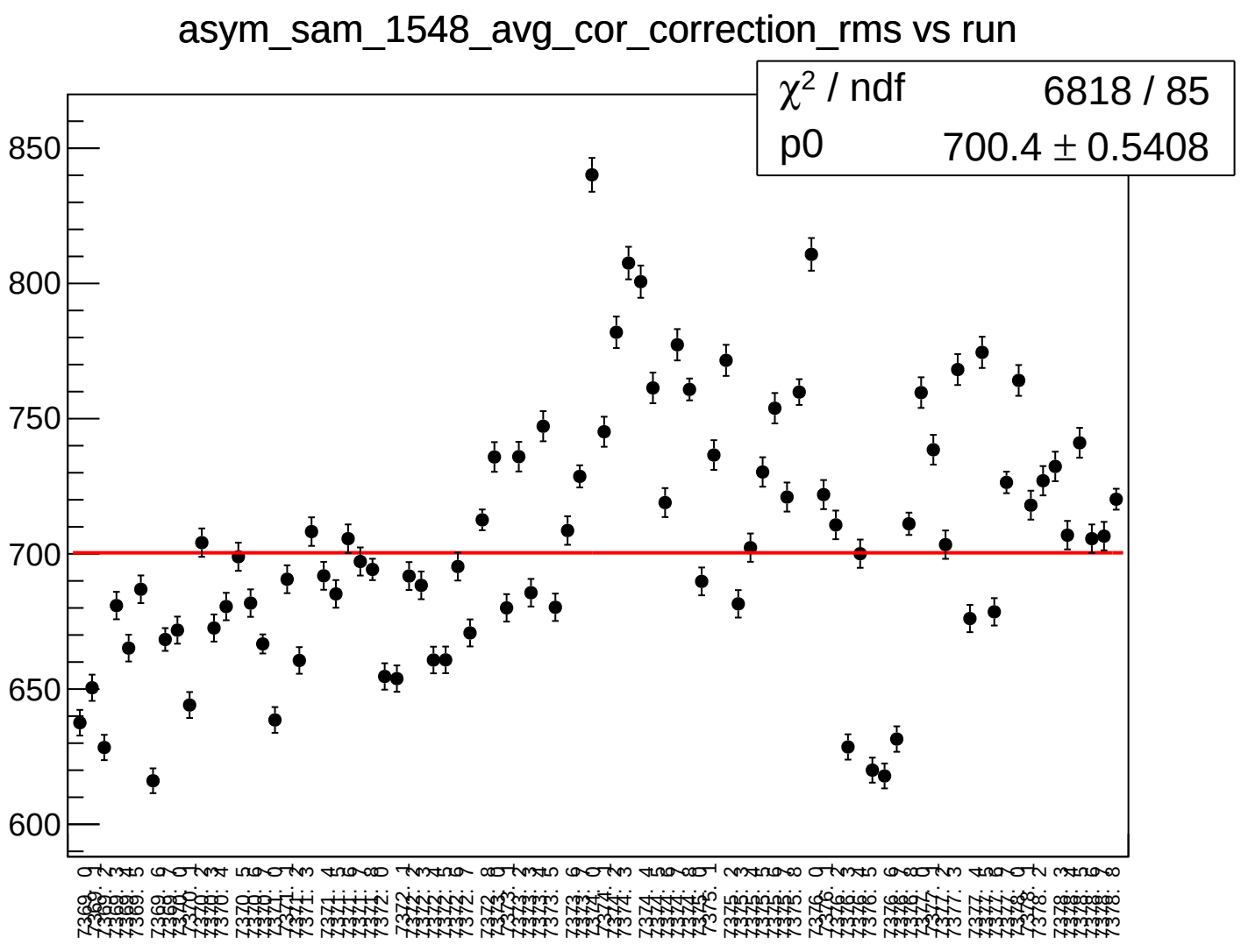

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 6818 / 85
p0 700.4 ± 0.5408
850
800
750
700
650
600

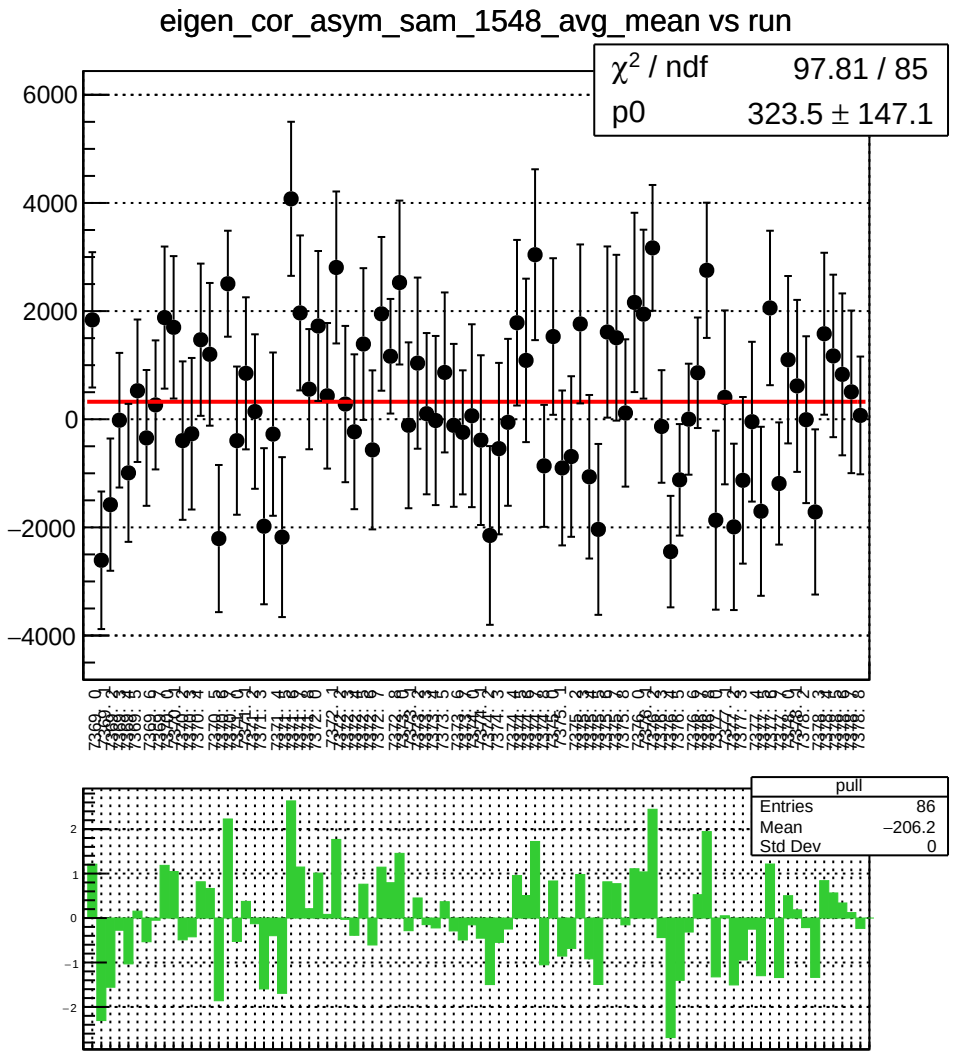

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 97.81 / 85
p0 323.5 ± 147.1
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −206.2
Std Dev 0
2
1
0
−1
−2

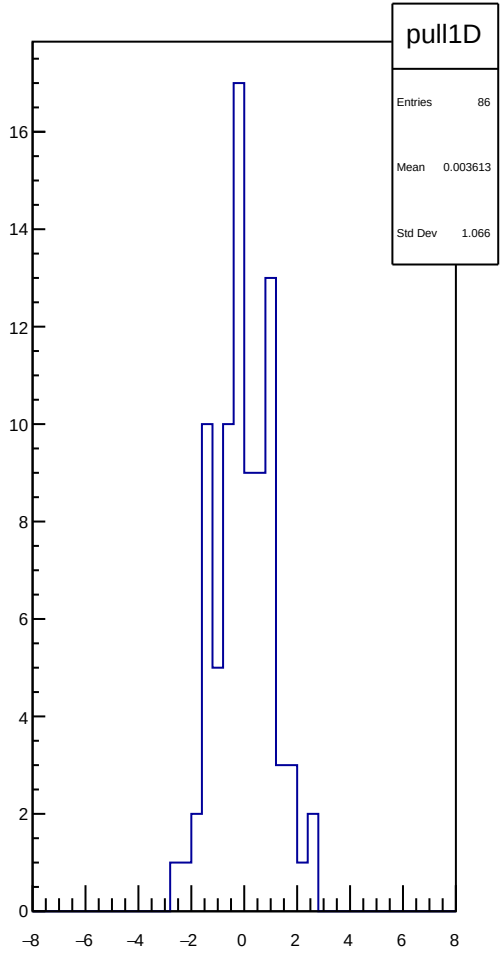

pull1D
Entries 86
Mean 0.003613
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1548_avg_rms vs run
χ² / ndf 2.32e+04 / 85
p0 134.1 ± 0.104
160
150
140
130
120
110
100
90


asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 91.64 / 85
p0 307.3 ± 764.8
pull
Entries 86
Mean −462.2
Std Dev 0
pull1D
Entries 86
Mean −0.002696
Std Dev 1.032


asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 6818 / 85
p0 700.4 ± 0.5408
850
800
750
700
650
600


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 97.81 / 85
p0 323.5 ± 147.1
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −206.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.003613
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
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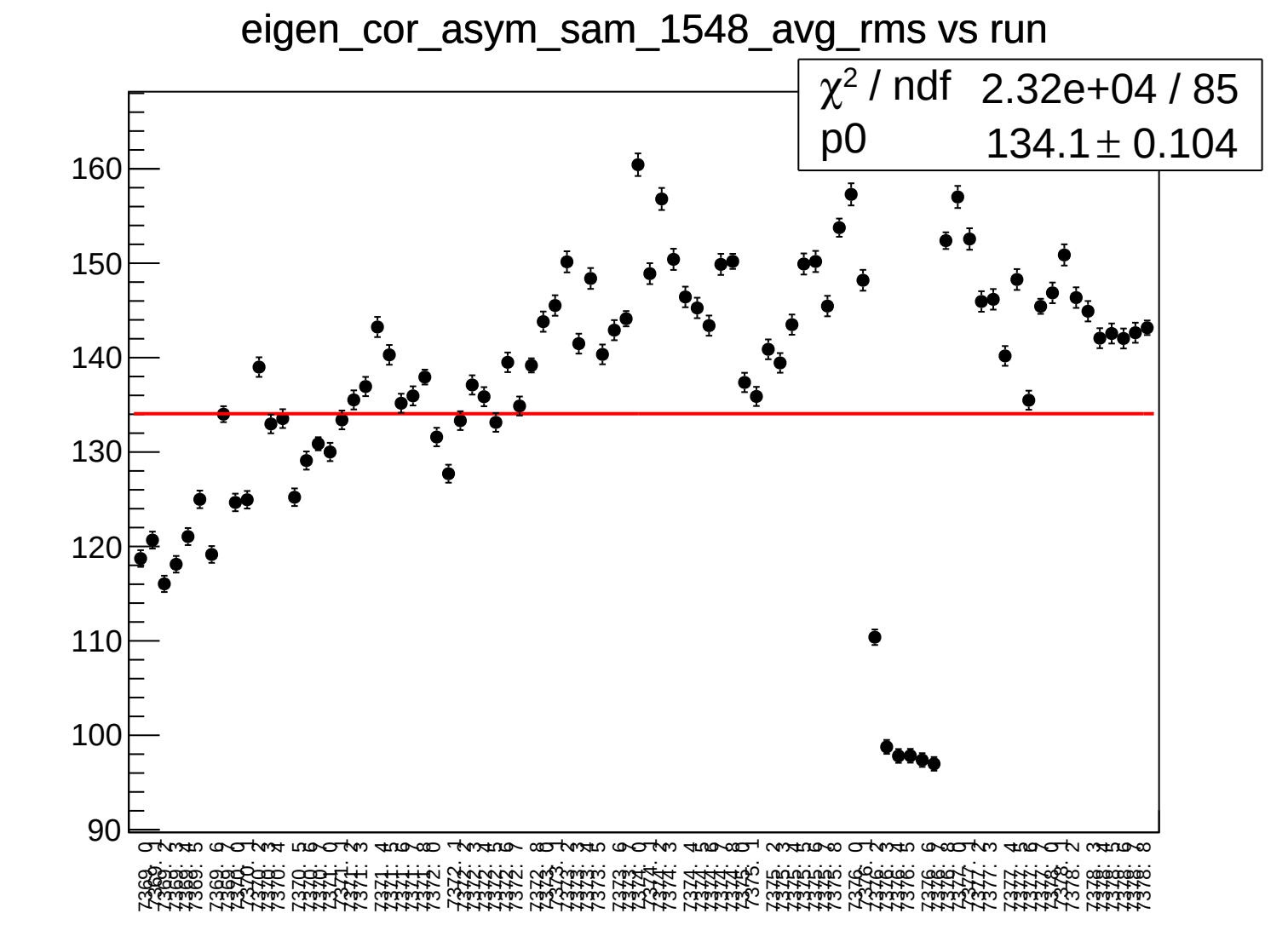
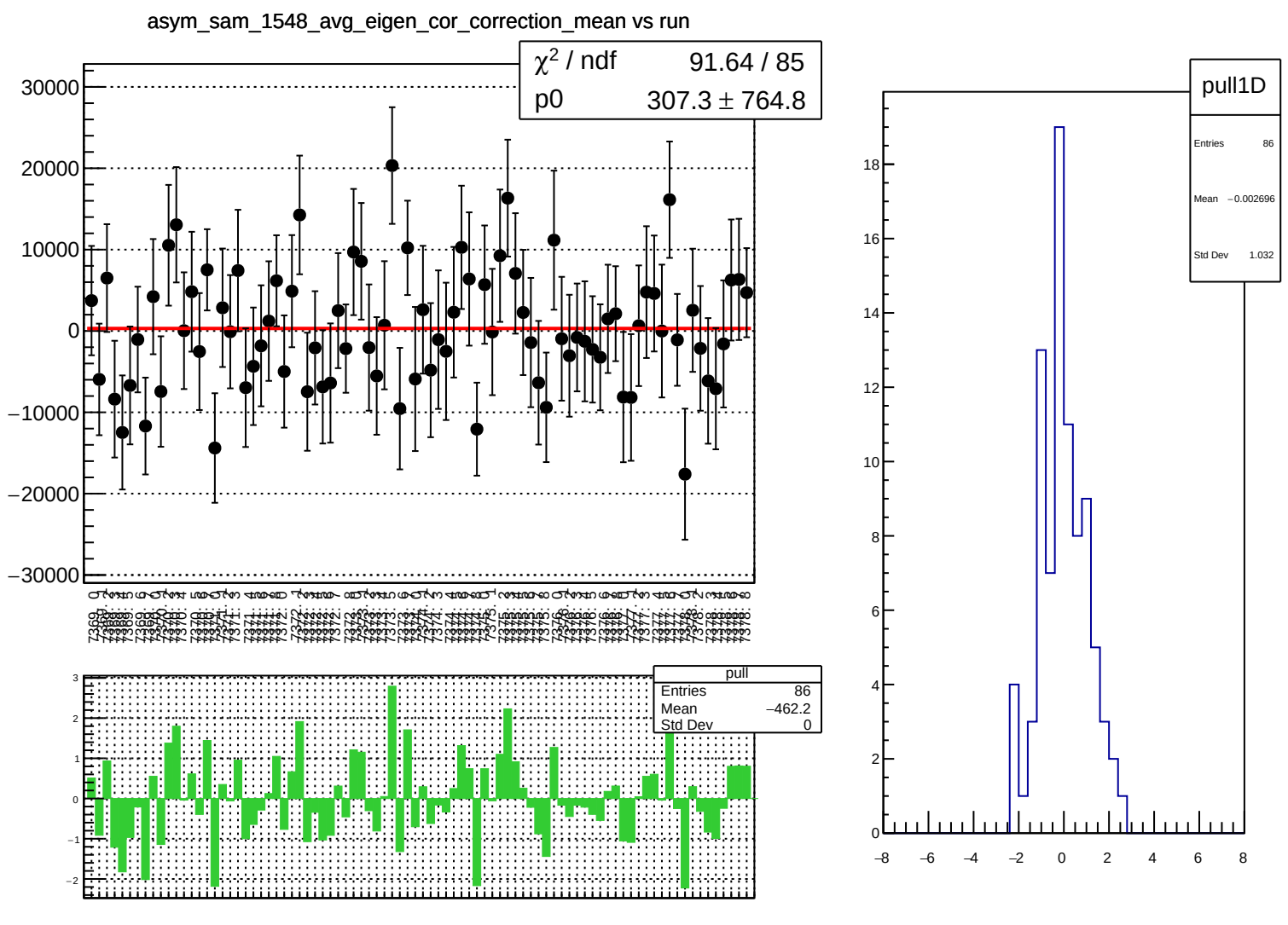
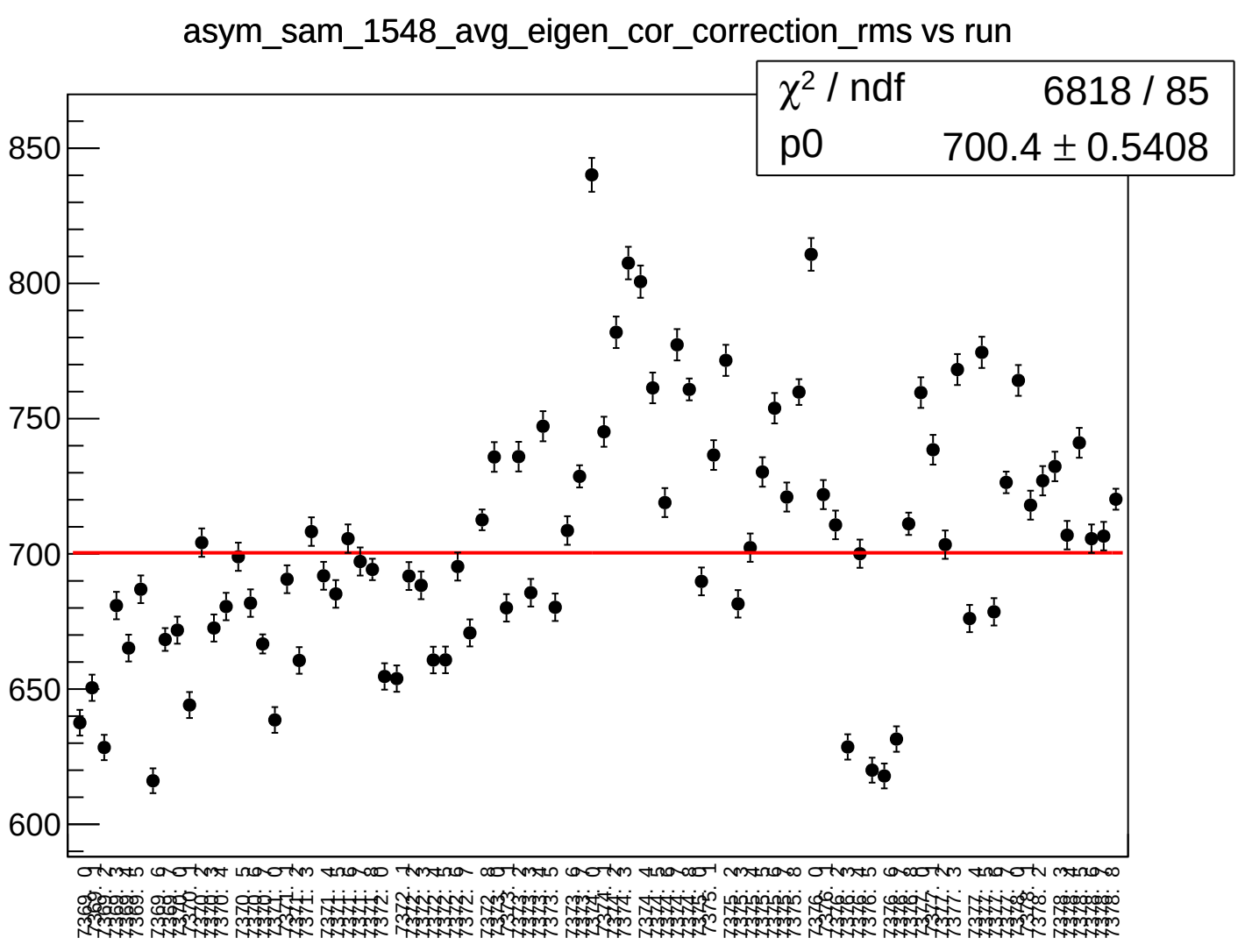
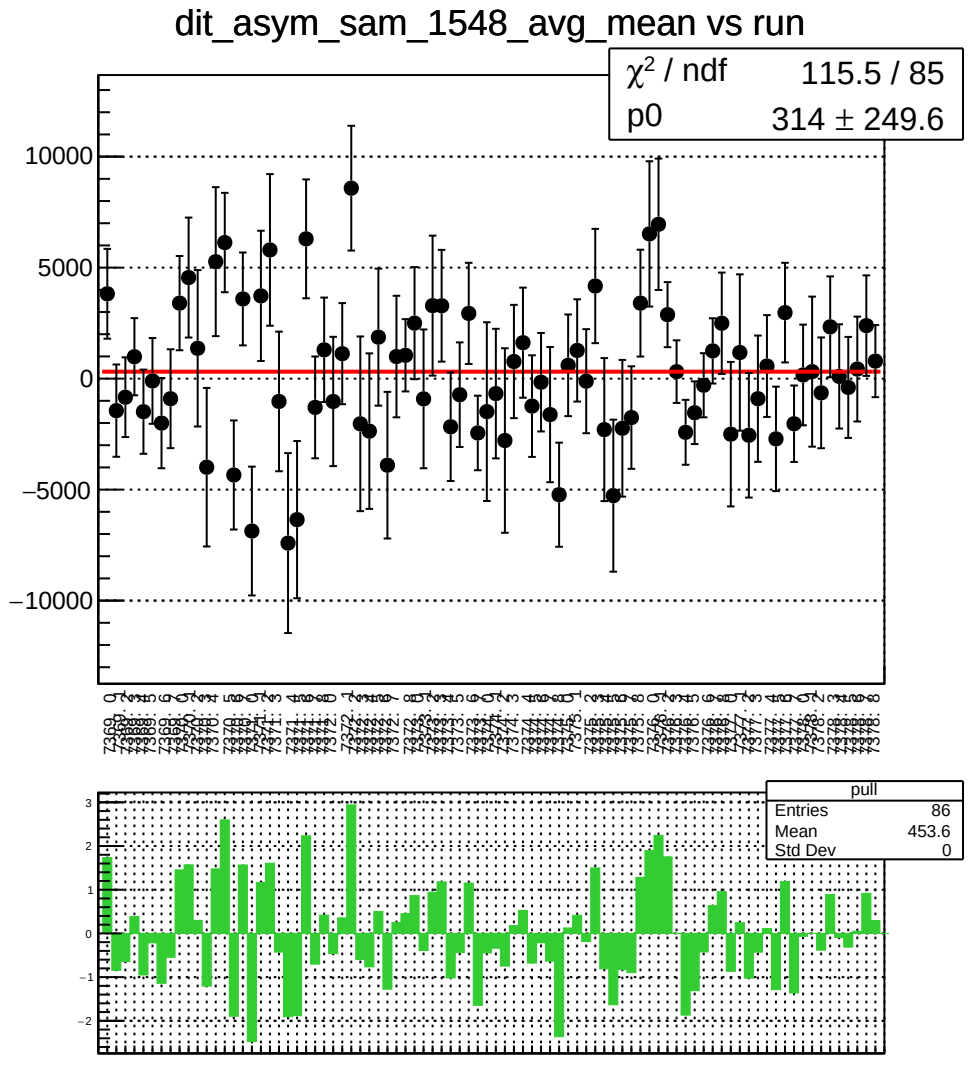
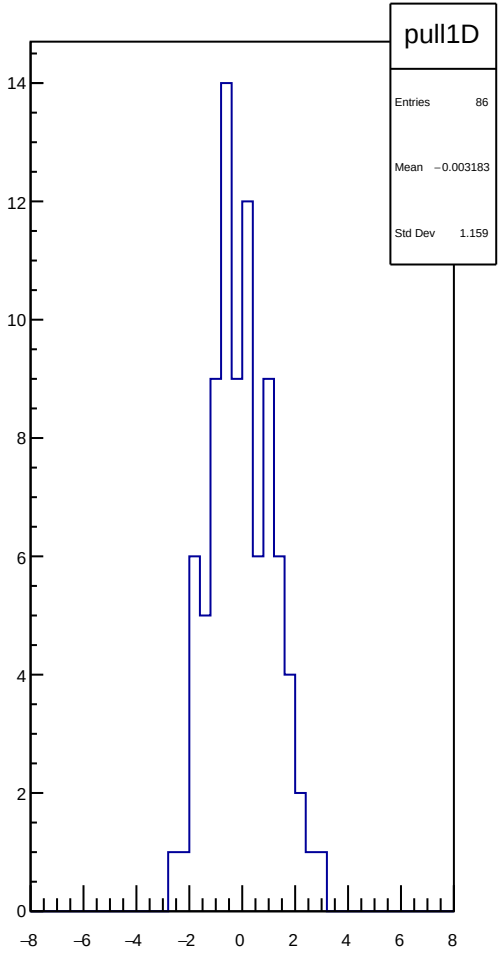
0
2
4
6
8

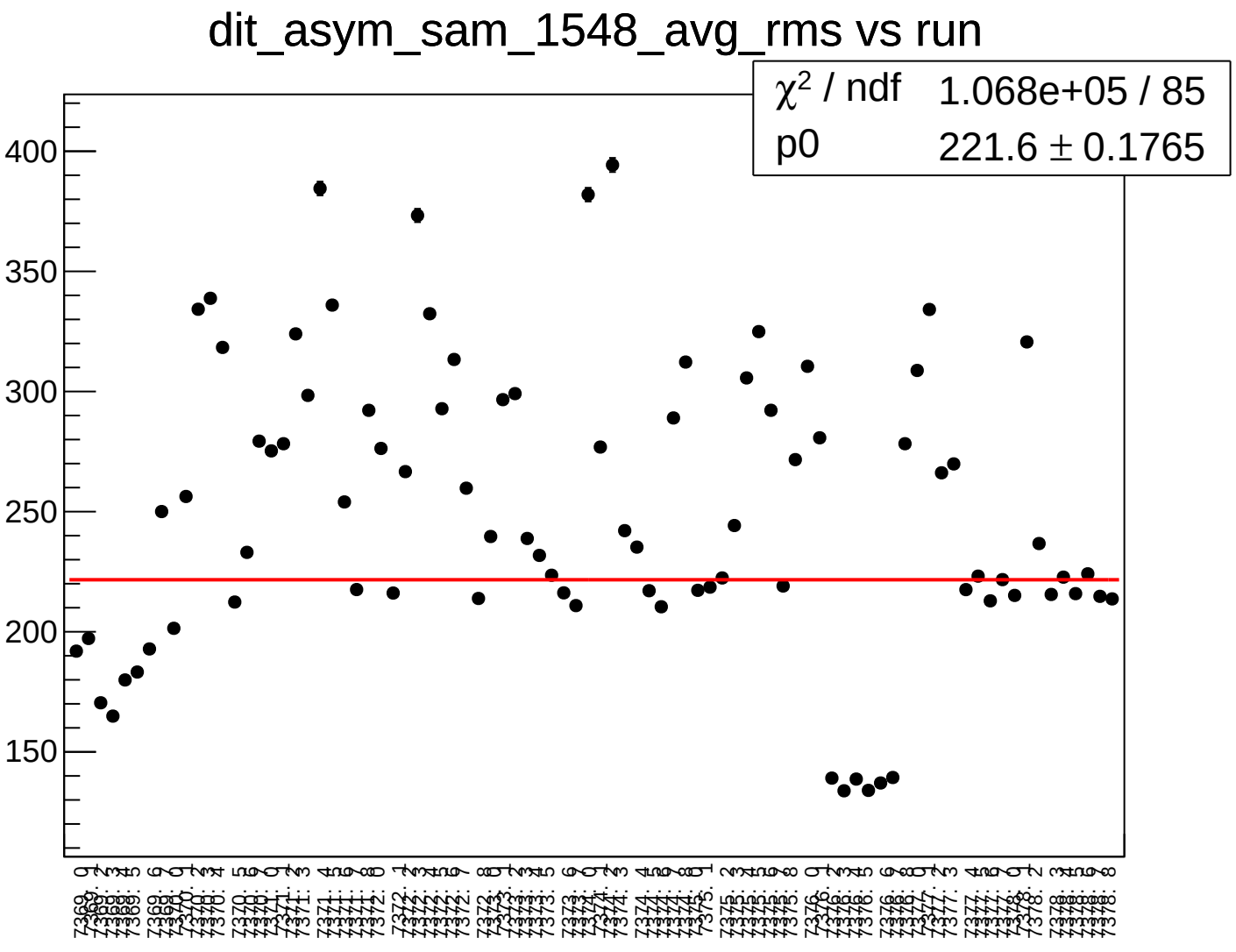

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 2.32e+04 / 85
p0 134.1 ± 0.104
160
150
140
130
120
110
100
90

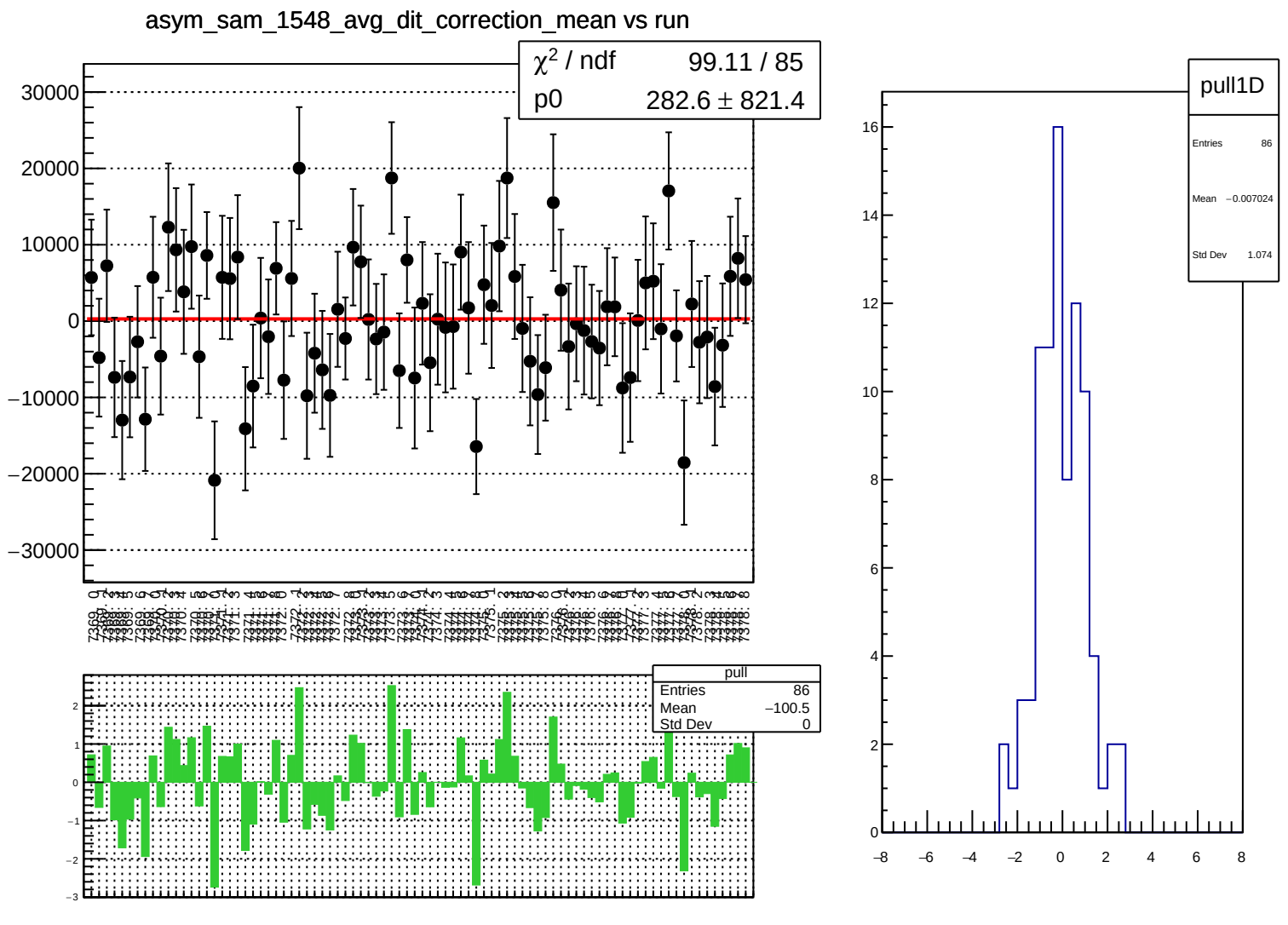

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.64 / 85
p0 307.3 ± 764.8
pull
Entries 86
Mean −462.2
Std Dev 0
pull1D
Entries 86
Mean −0.002696
Std Dev 1.032

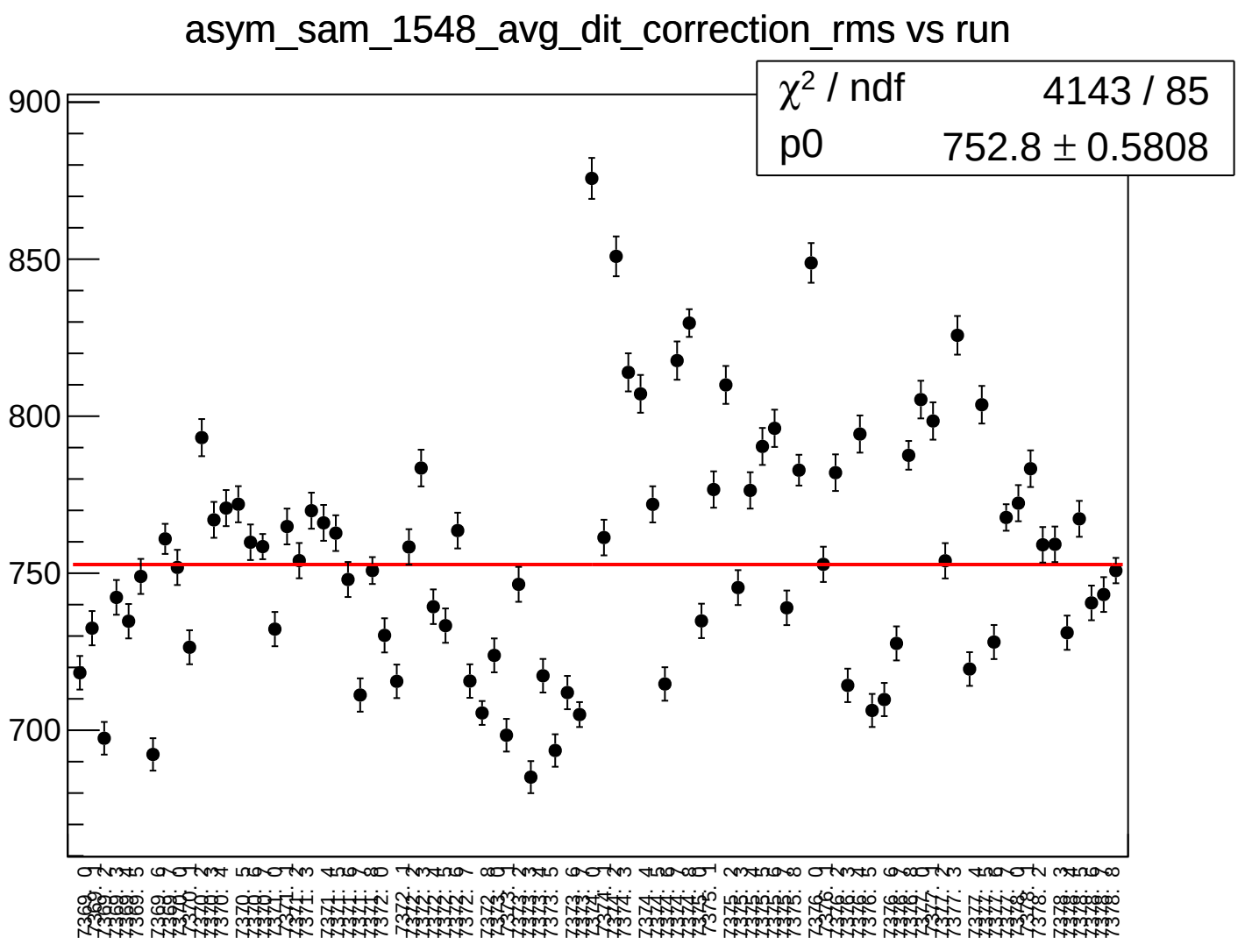

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 6818 / 85
p0 700.4 ± 0.5408
850
800
750
700
650
600

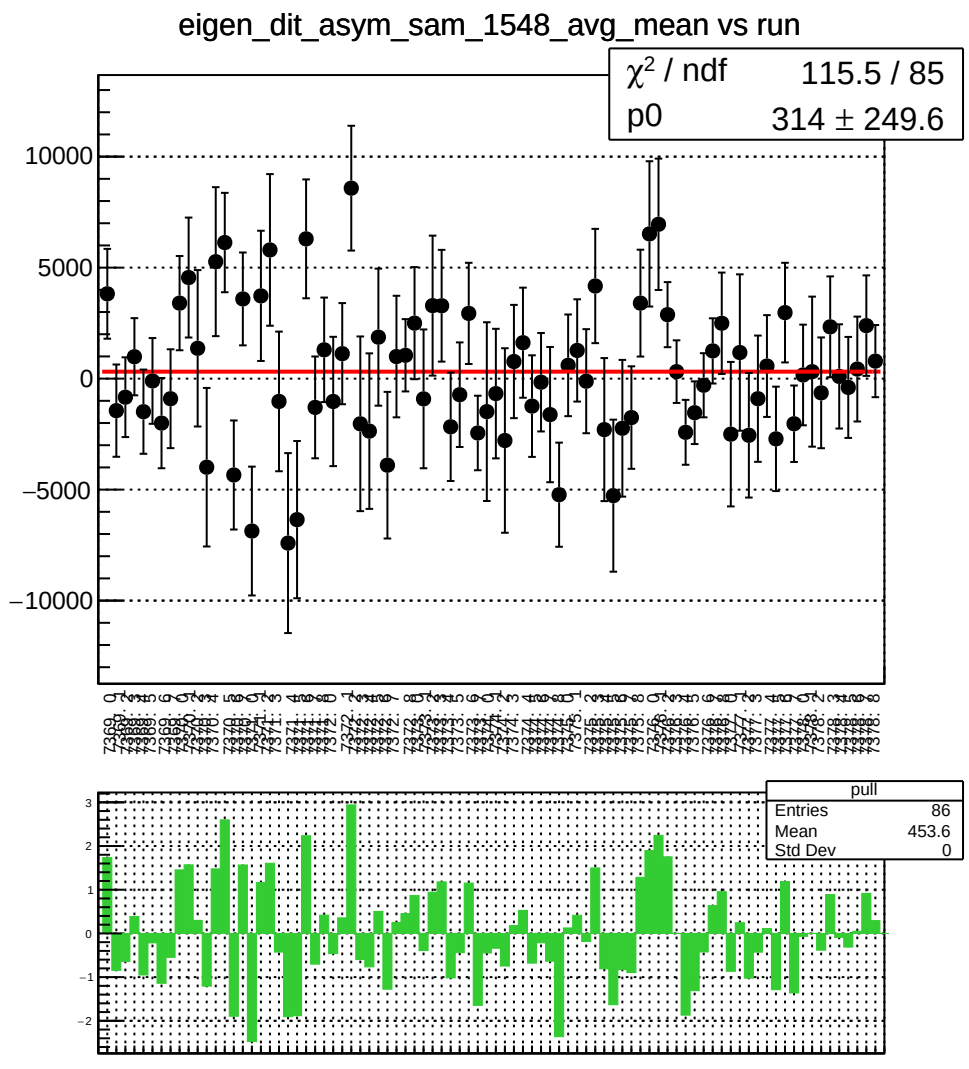

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 115.5 / 85
p0 314 ± 249.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 453.6
Std Dev 0
3
2
1
0
−1
−2

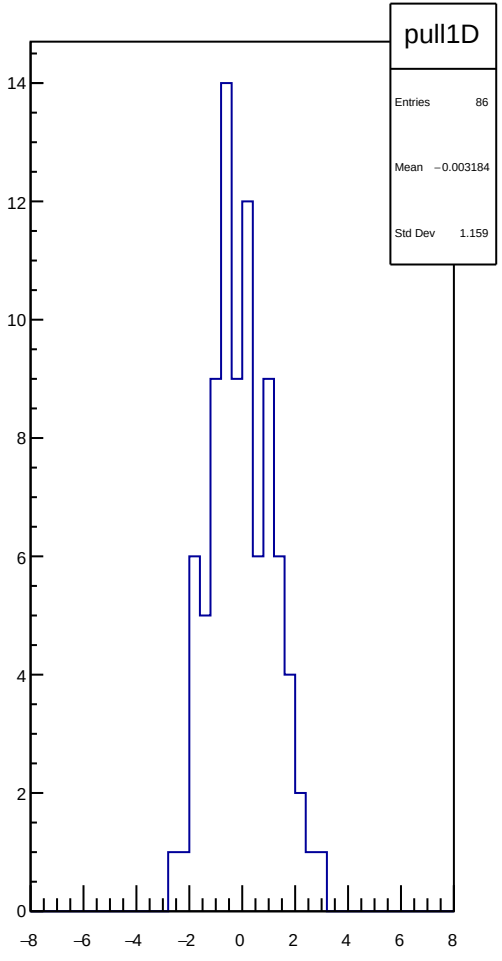

pull1D
Entries 86
Mean −0.003183
Std Dev 1.159
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

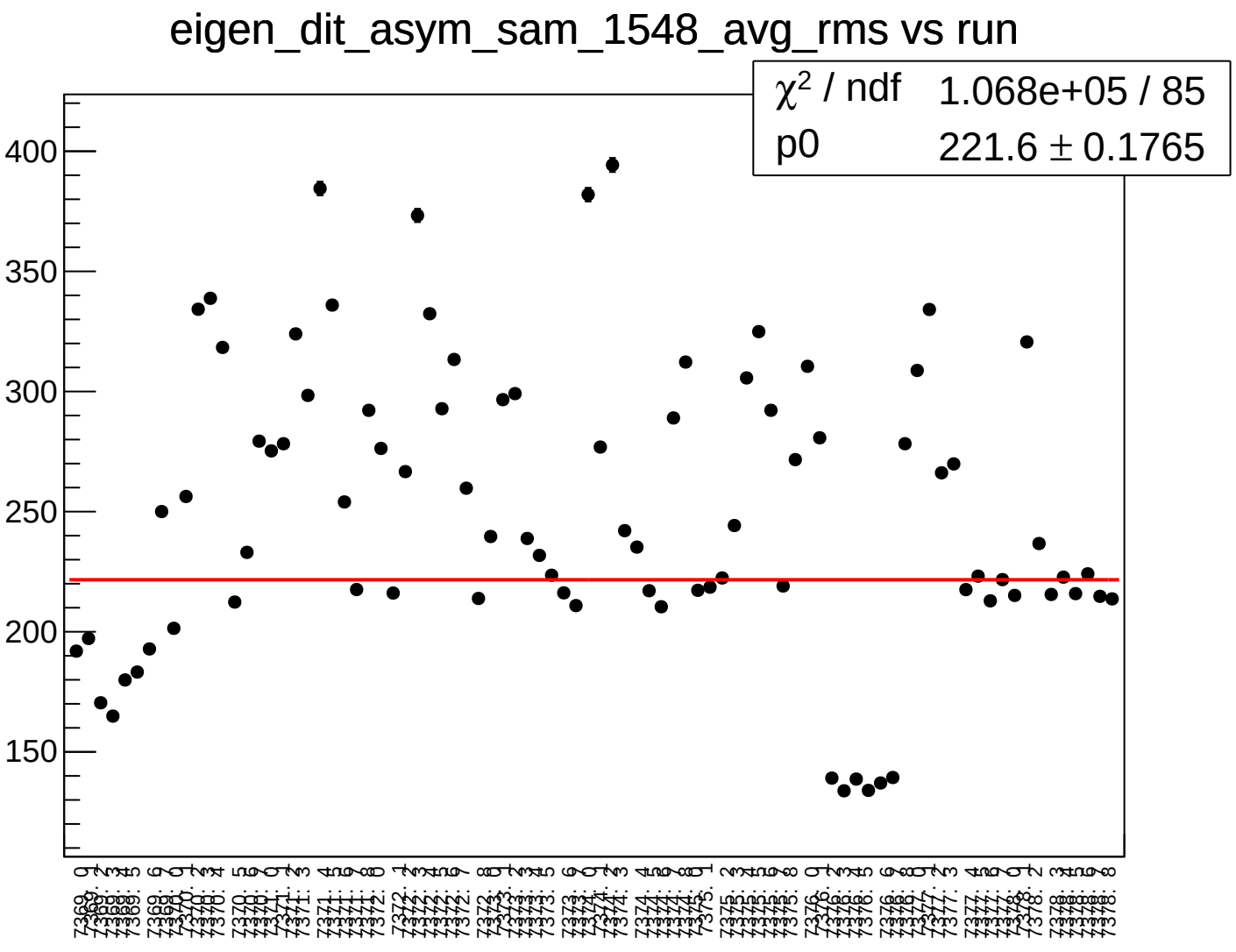

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.068e+05 / 85
p0 221.6 ± 0.1765
400
350
300
250
200
150

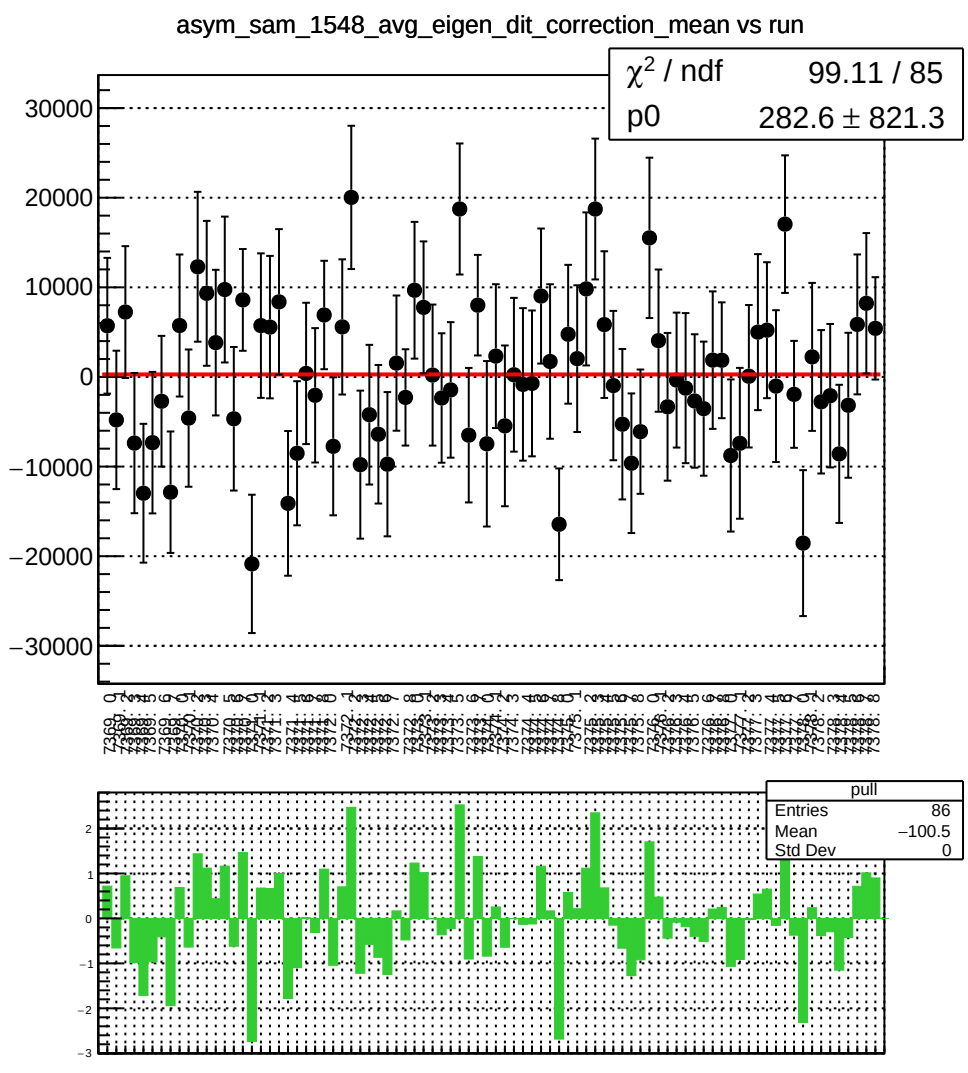

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 99.11 / 85
p0 282.6 ± 821.4
pull
Entries 86
Mean −100.5
Std Dev 0
pull1D
Entries 86
Mean −0.007024
Std Dev 1.074

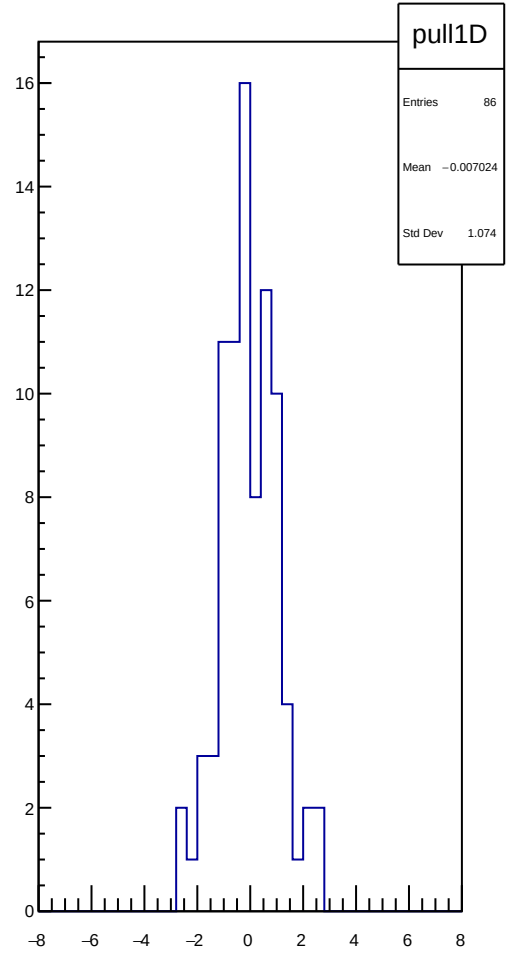

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 4143 / 85
p0 752.8 ± 0.5808
900
850
800
750
700

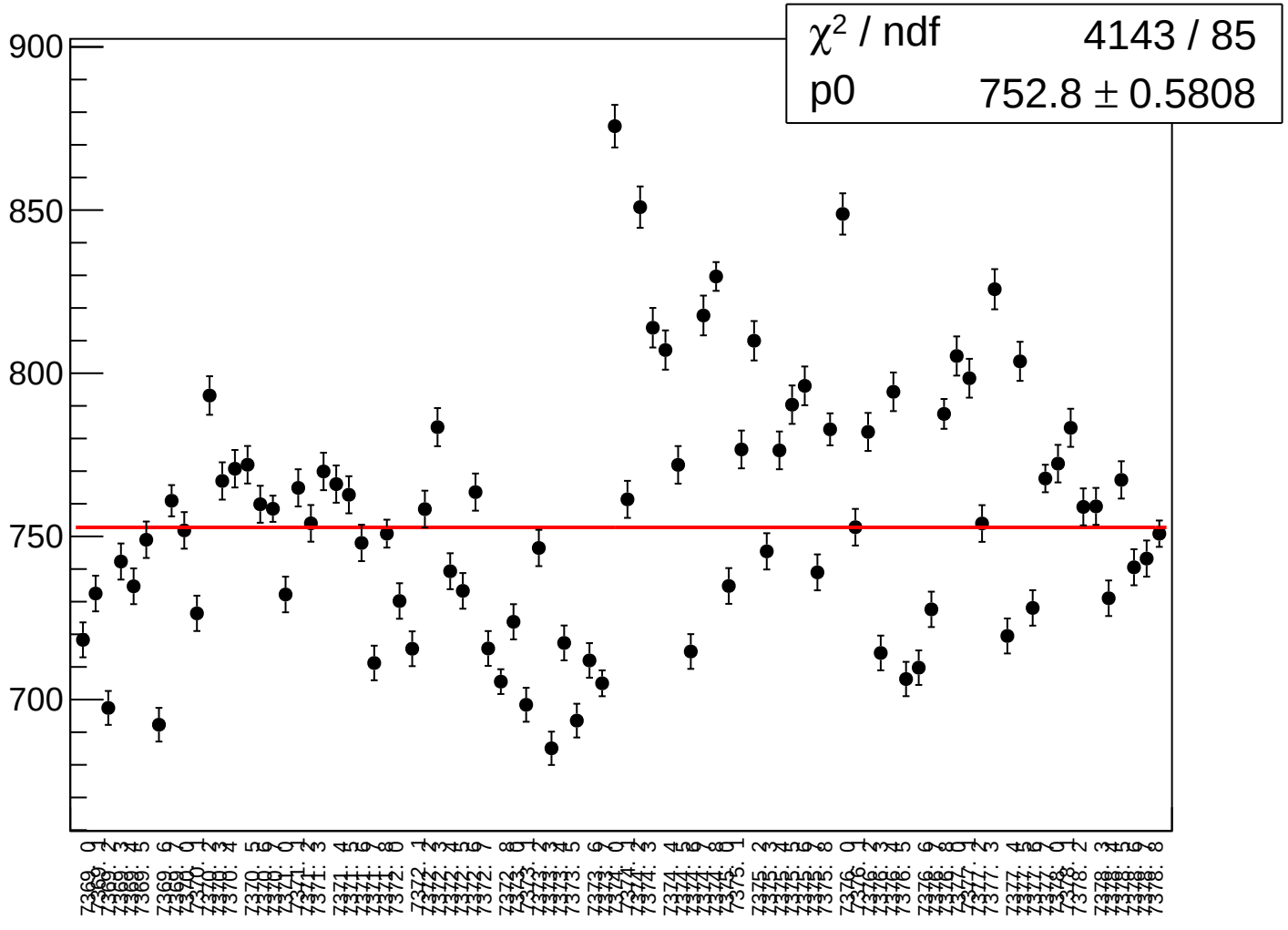

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 115.5 / 85
p0 314 ± 249.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 453.6
Std Dev 0
3
2
1
0
−1
−2

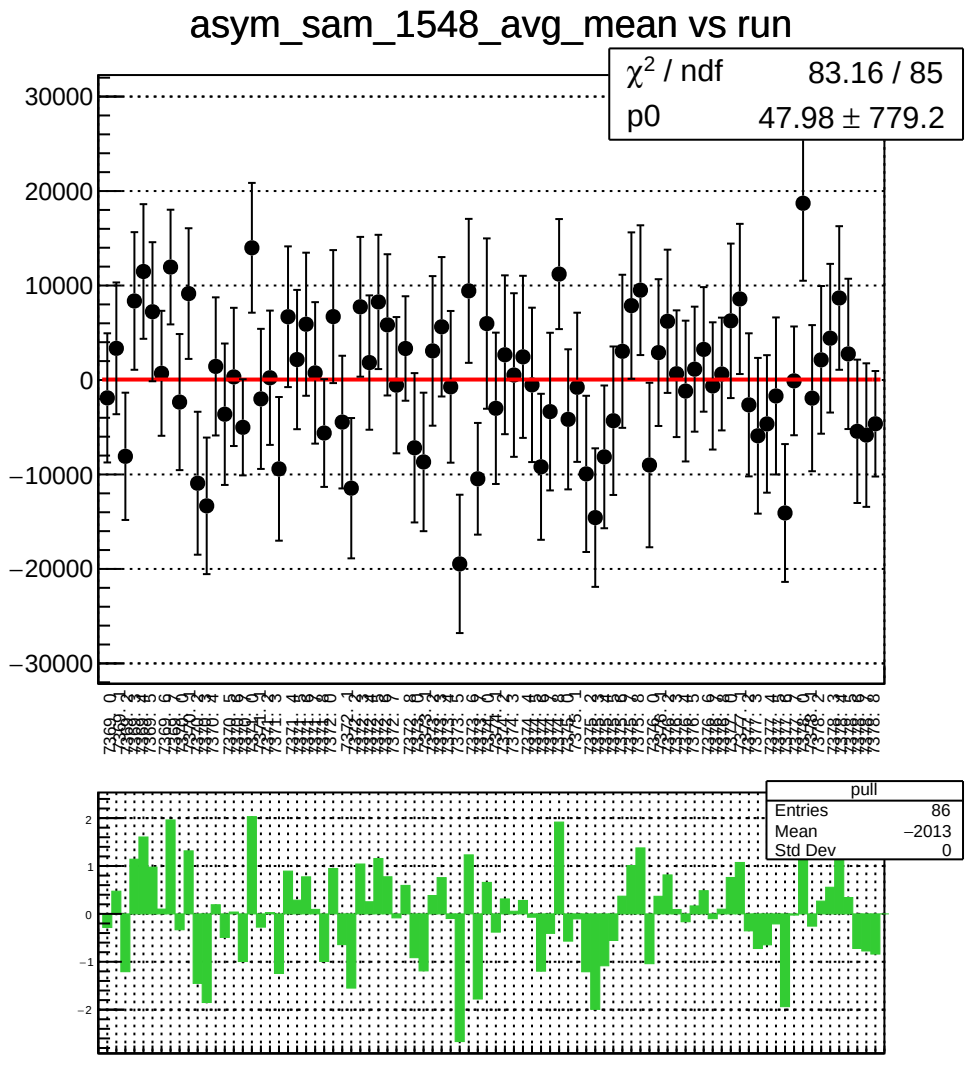

pull1D
Entries 86
Mean −0.003184
Std Dev 1.159
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

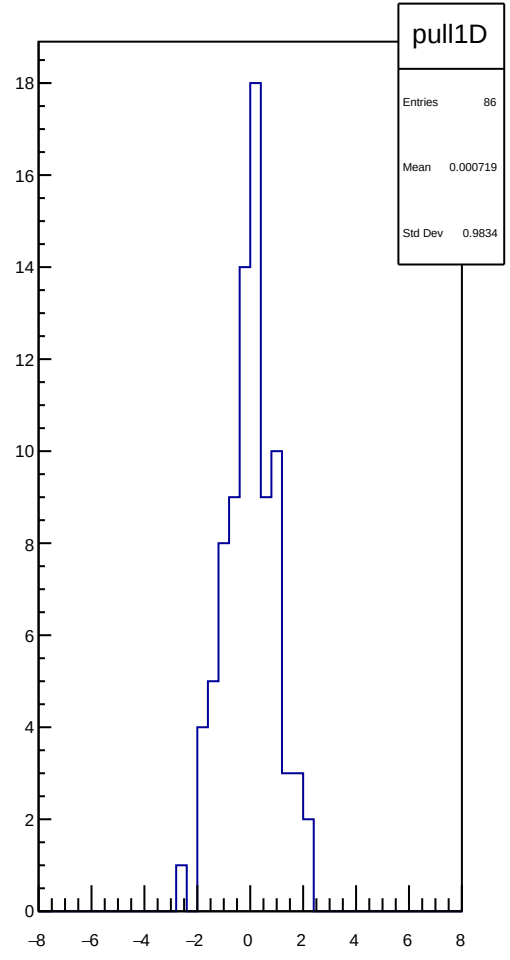

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.068e+05 / 85
p0 221.6 ± 0.1765
400
350
300
250
200
150

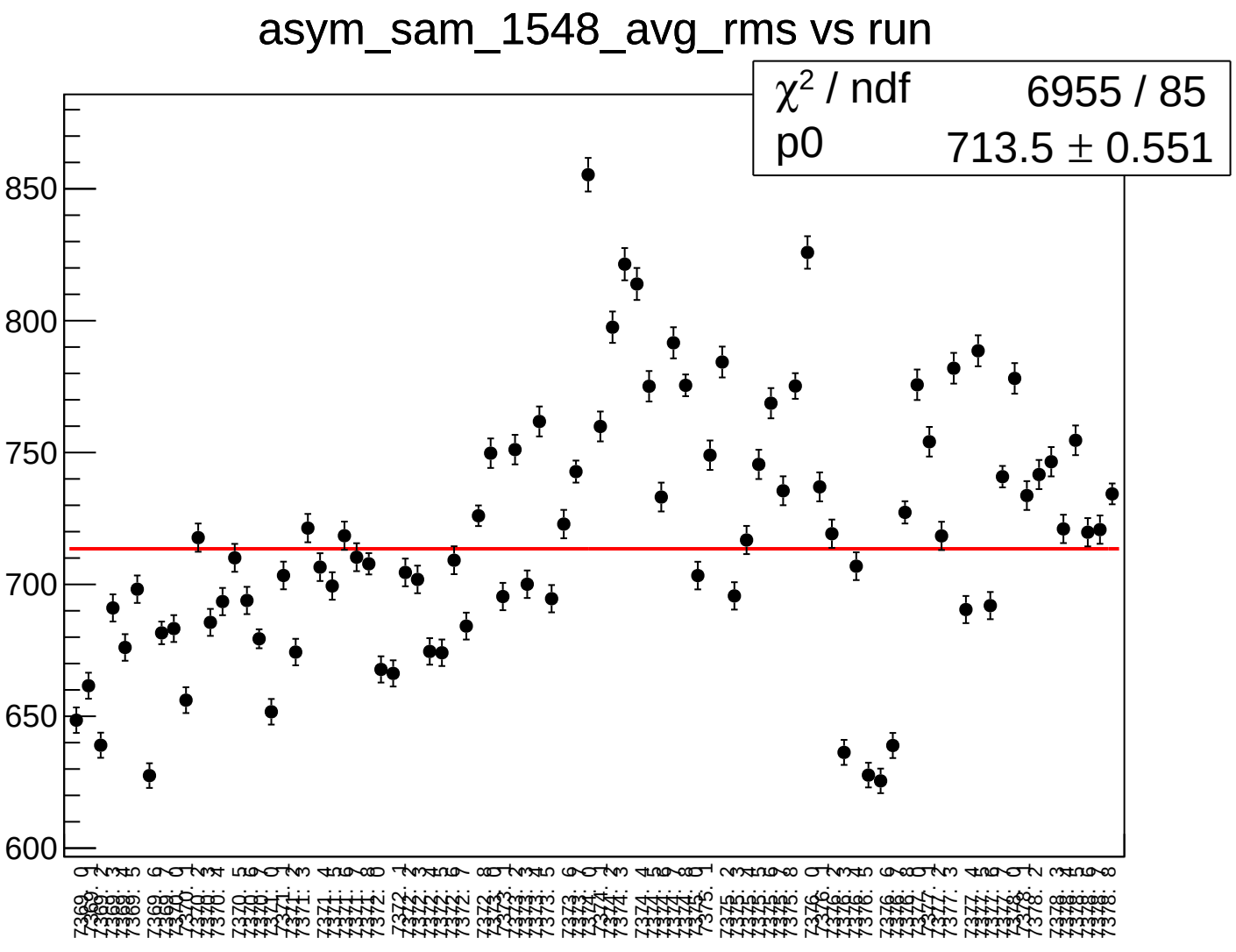

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.11 / 85
p0 282.6 ± 821.3
pull
Entries 86
Mean −100.5
Std Dev 0

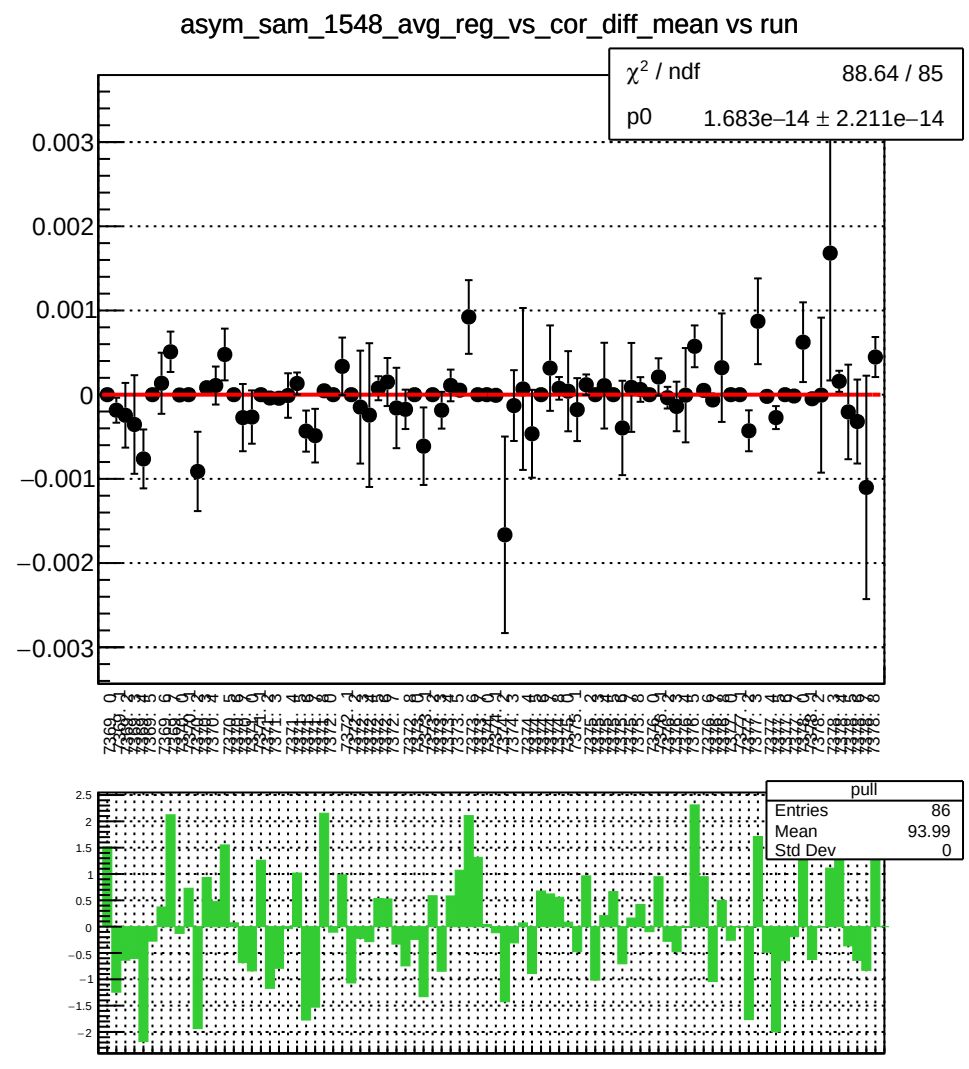

pull1D
Entries 86
Mean −0.007024
Std Dev 1.074

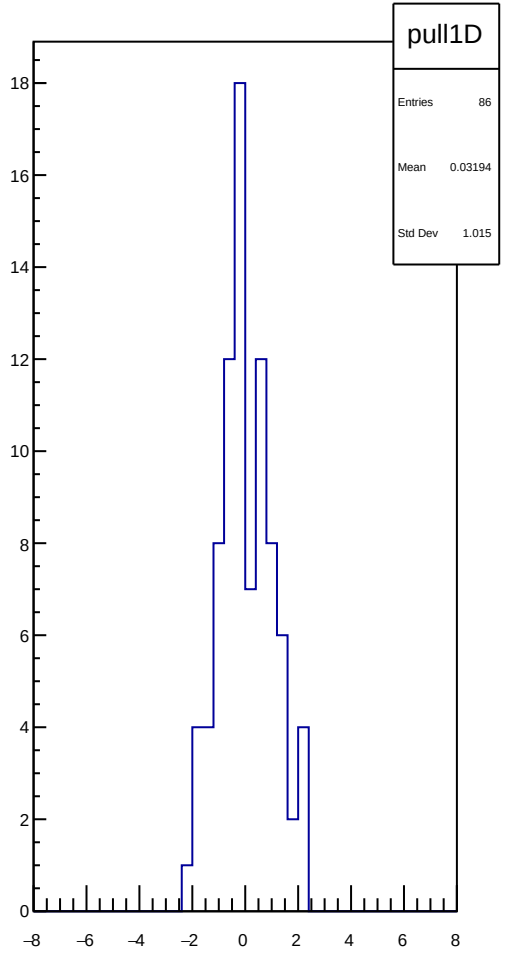

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 4143 / 85
p0 752.8 ± 0.5808
900
850
800
750
700

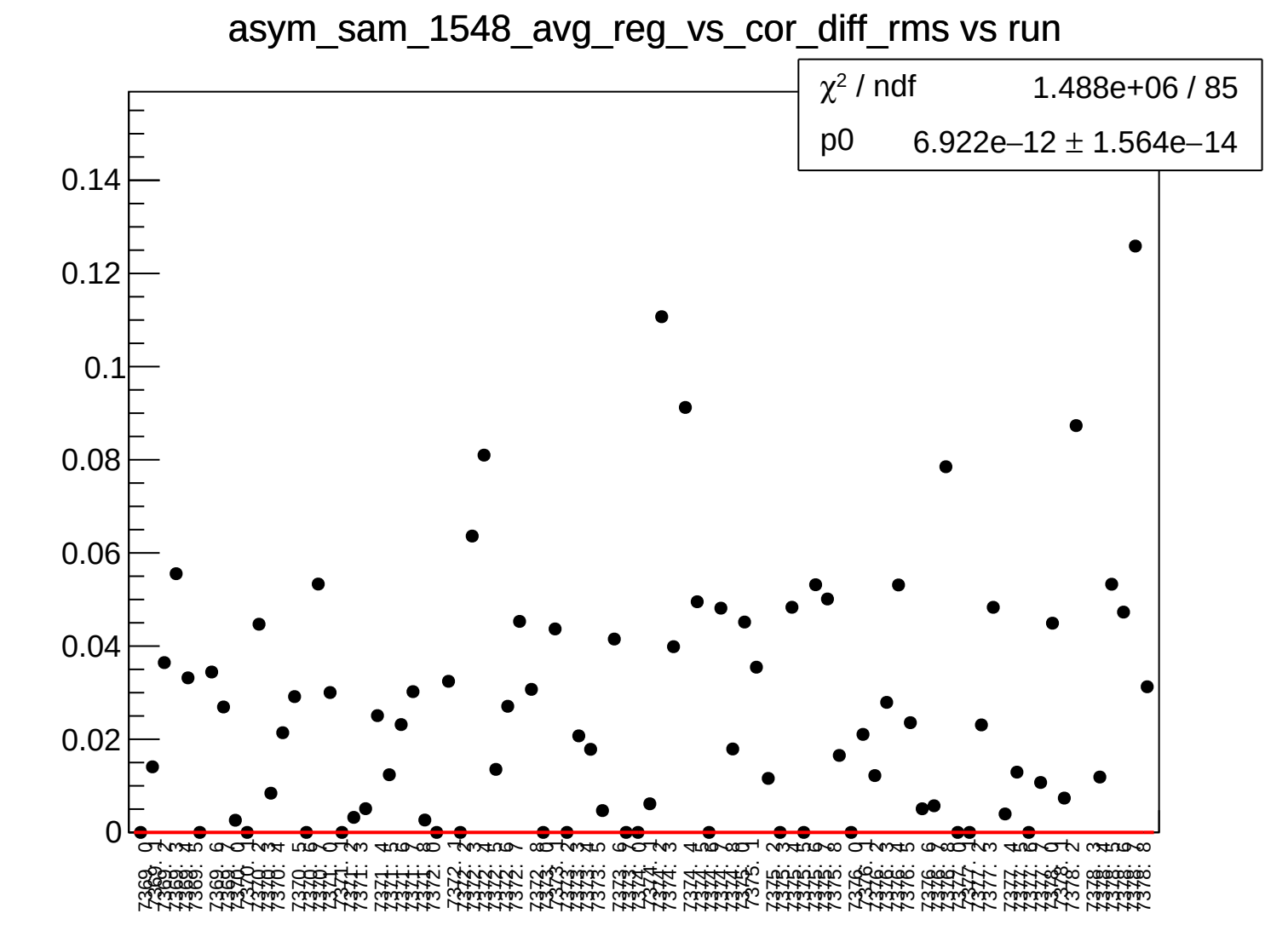

asym_sam_1548_avg_mean vs run
χ² / ndf 83.16 / 85
p0 47.98 ± 779.2
pull
Entries 86
Mean −2013
Std Dev 0

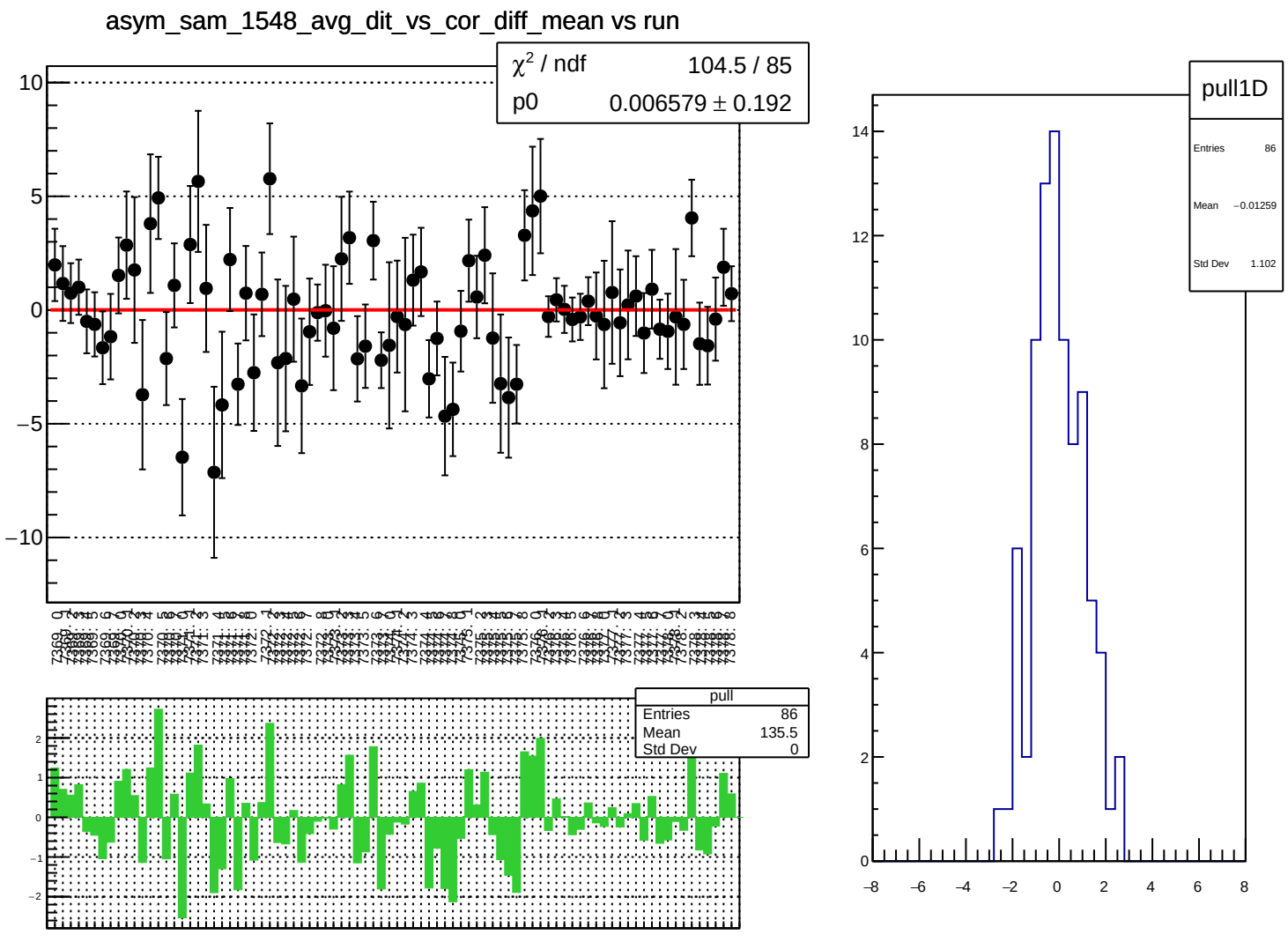

pull1D
Entries 86
Mean 0.000719
Std Dev 0.9834

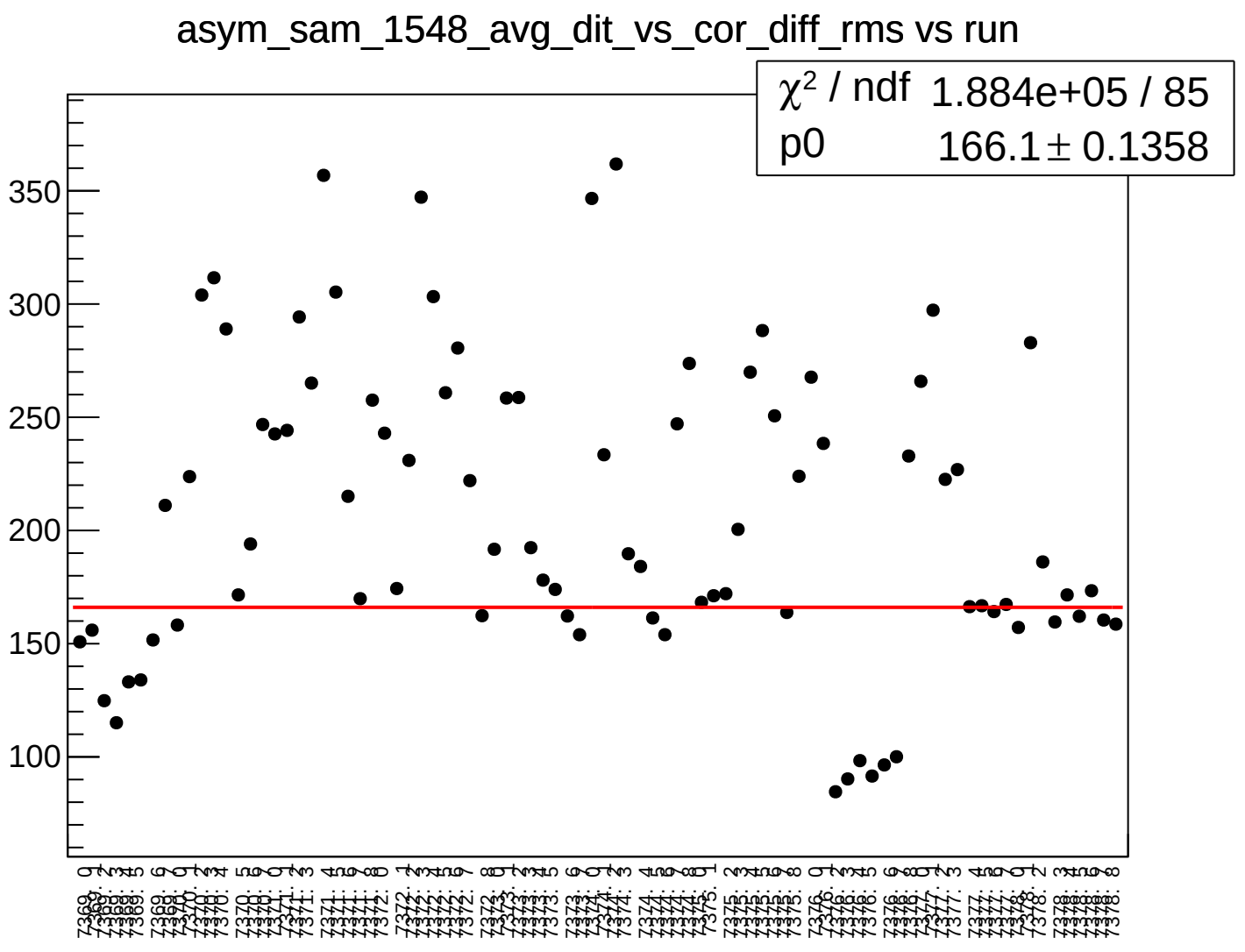

asym_sam_1548_avg_rms vs run
χ² / ndf 6955 / 85
p0 713.5 ± 0.551
850
800
750
700
650
600

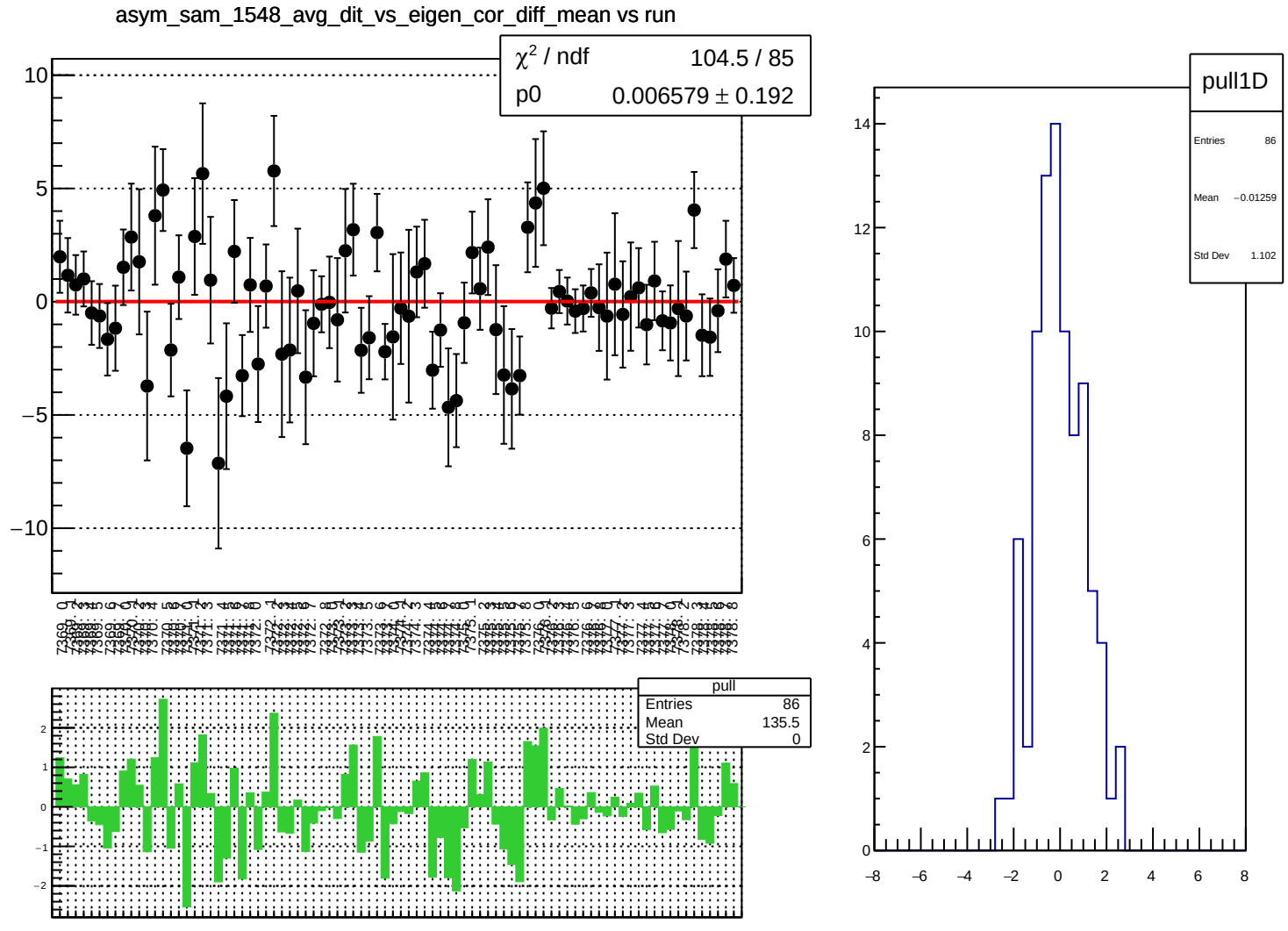

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.64 / 85
p0 1.683e−14 ± 2.211e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 86
Mean 93.99
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

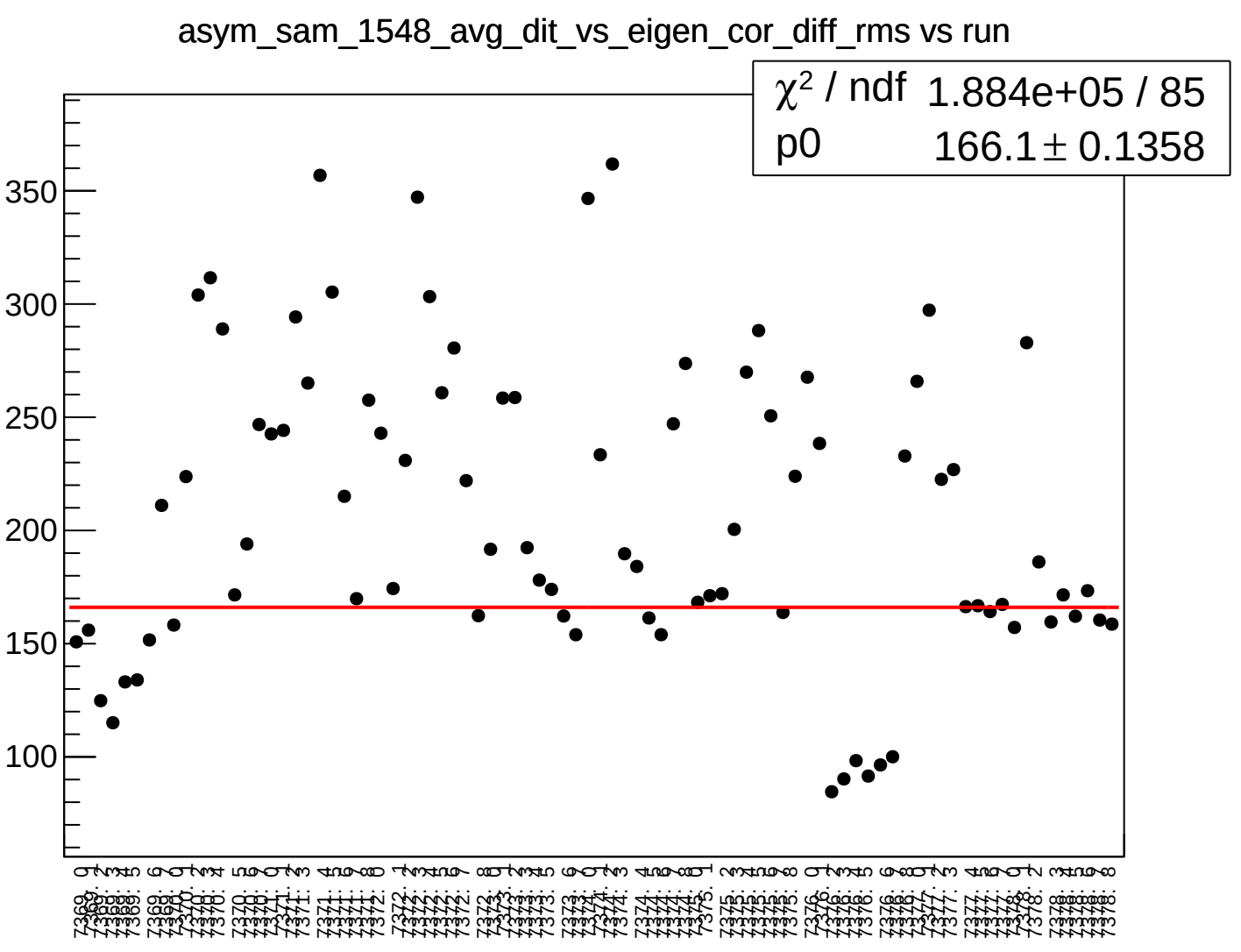

pull1D
Entries 86
Mean 0.03194
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

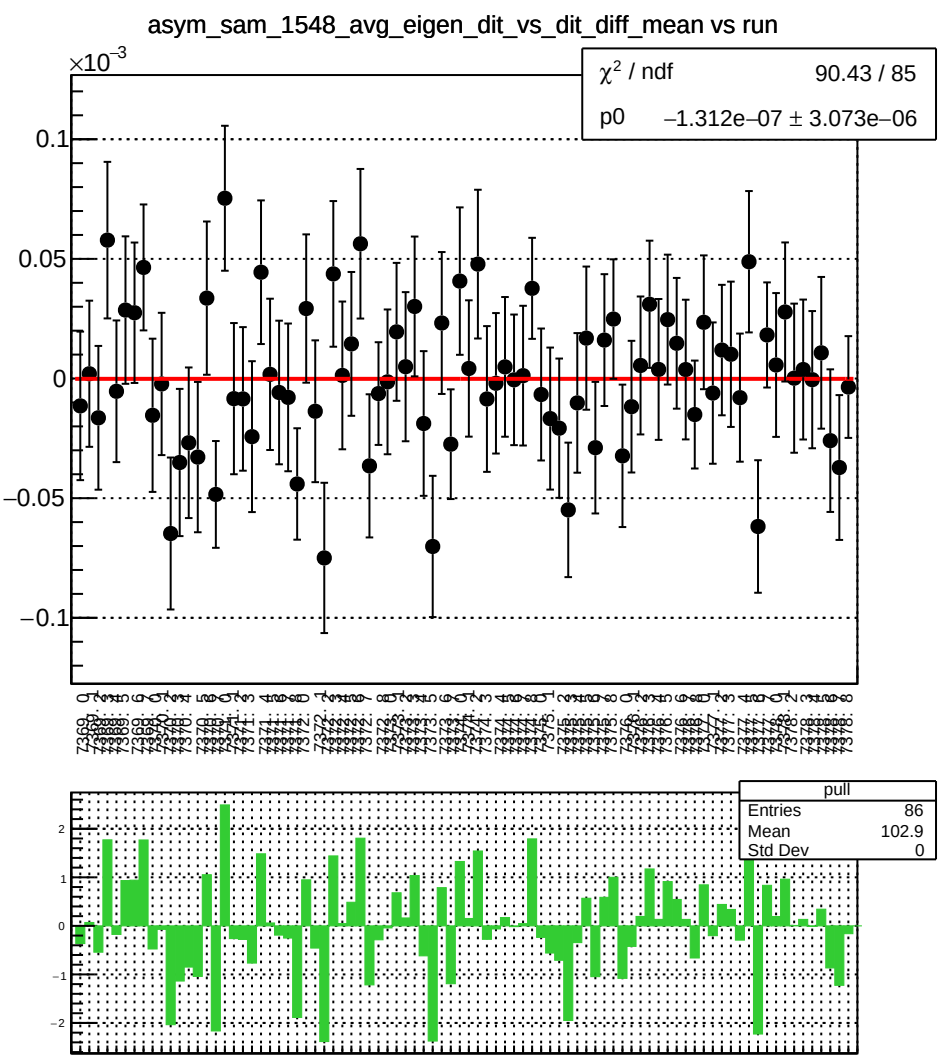

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.488e+06 / 85
p0 6.922e−12 ± 1.564e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

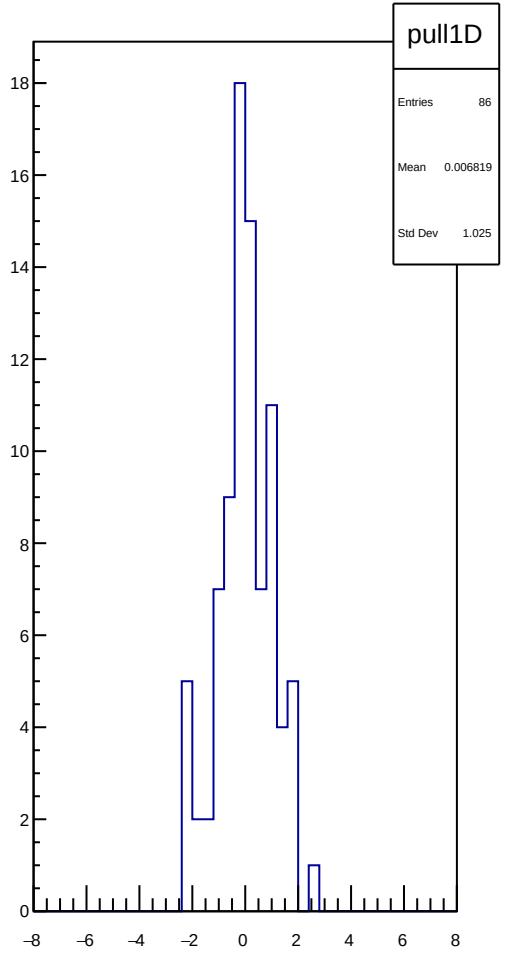

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 85
p0 0.006579 ± 0.192
pull
Entries 86
Mean 135.5
Std Dev 0
pull1D
Entries 86
Mean −0.01259
Std Dev 1.102

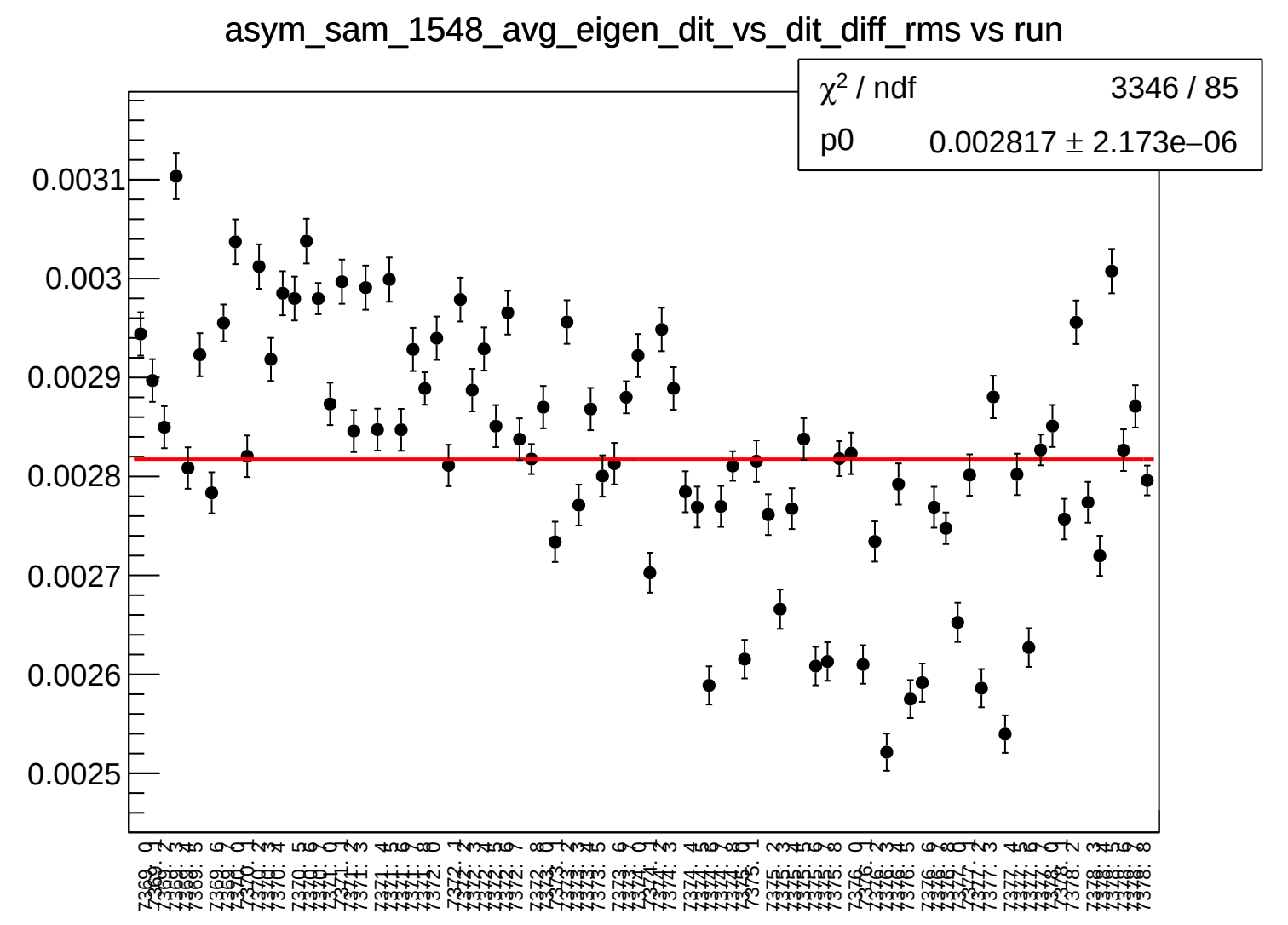

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.884e+05 / 85
p0 166.1 ± 0.1358
350
300
250
200
150
100

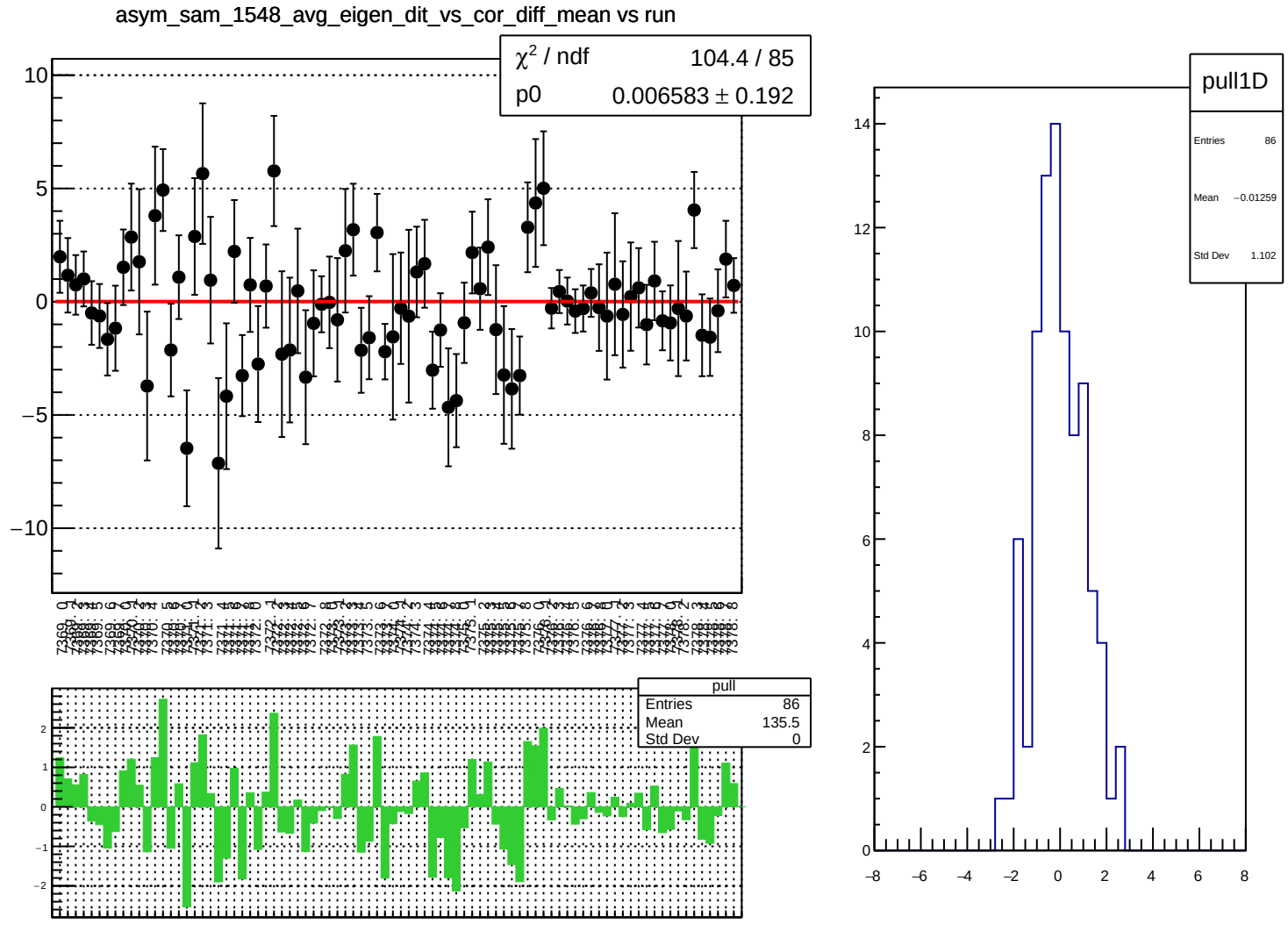

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 85
p0 0.006579 ± 0.192
pull
Entries 86
Mean 135.5
Std Dev 0
pull1D
Entries 86
Mean −0.01259
Std Dev 1.102

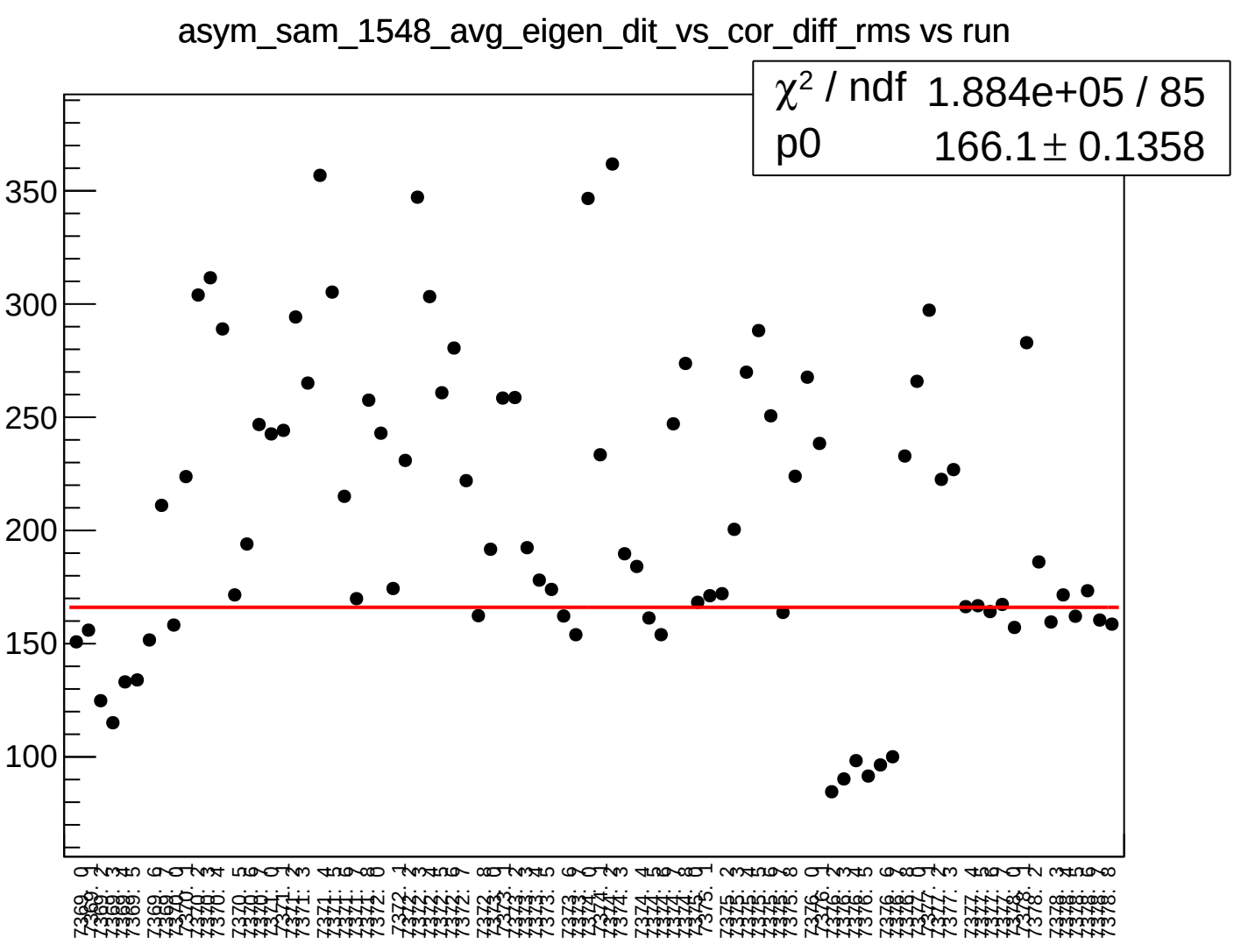

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.884e+05 / 85
p0 166.1 ± 0.1358
350
300
250
200
150
100

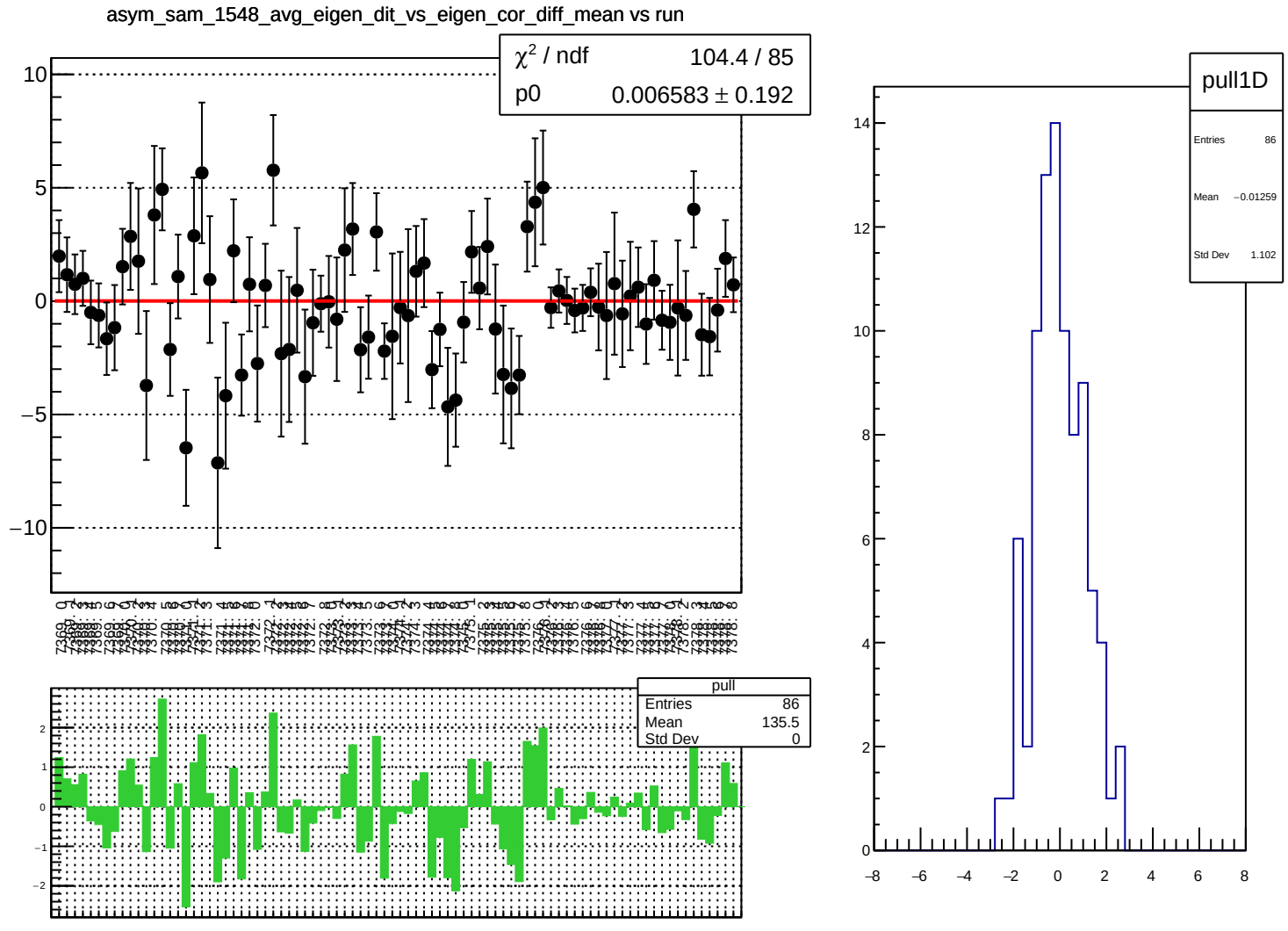

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.43 / 85
p0 −1.312e−07 ± 3.073e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 102.9
Std Dev 0
2
1
0
−1
−2

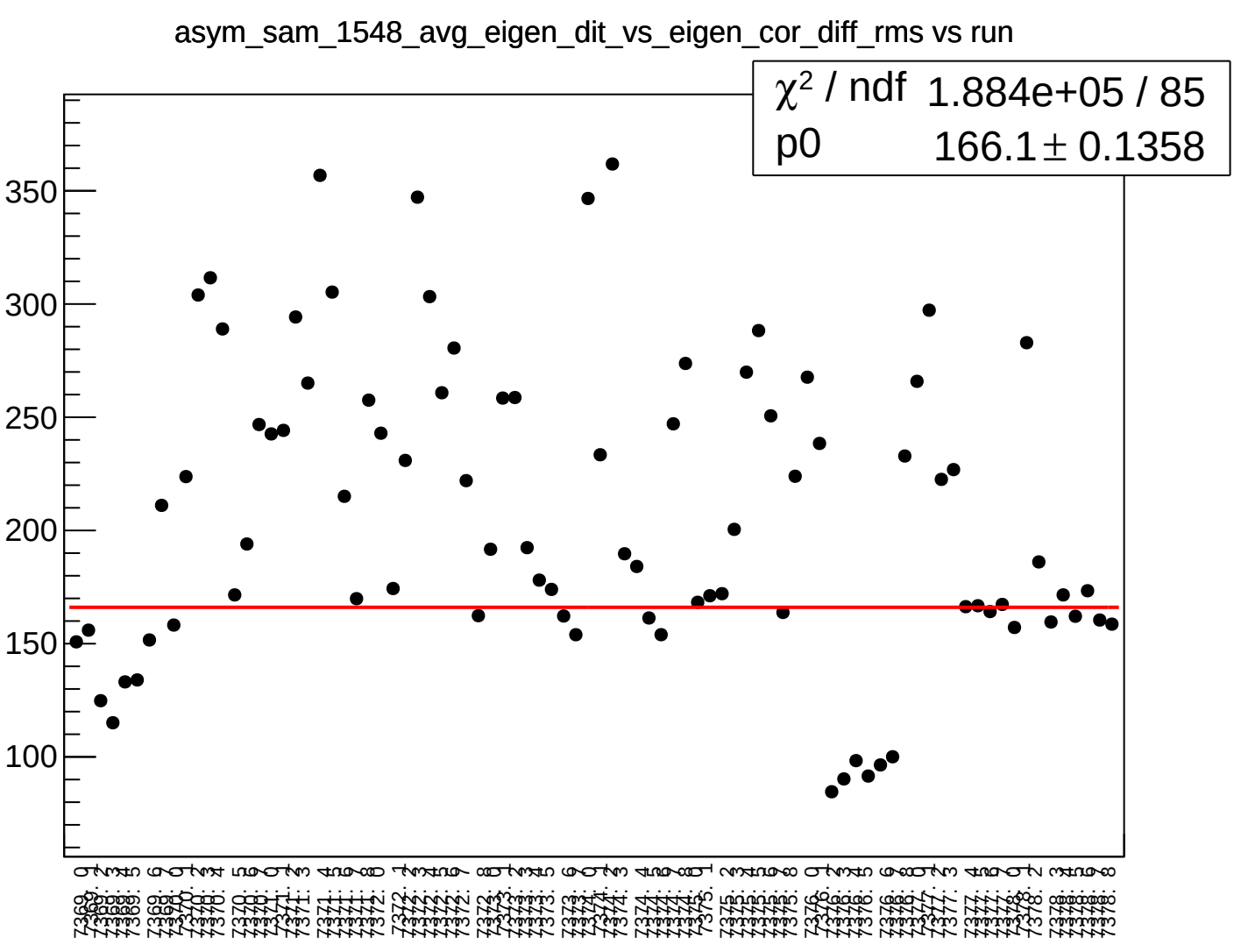

pull1D
Entries 86
Mean 0.006819
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

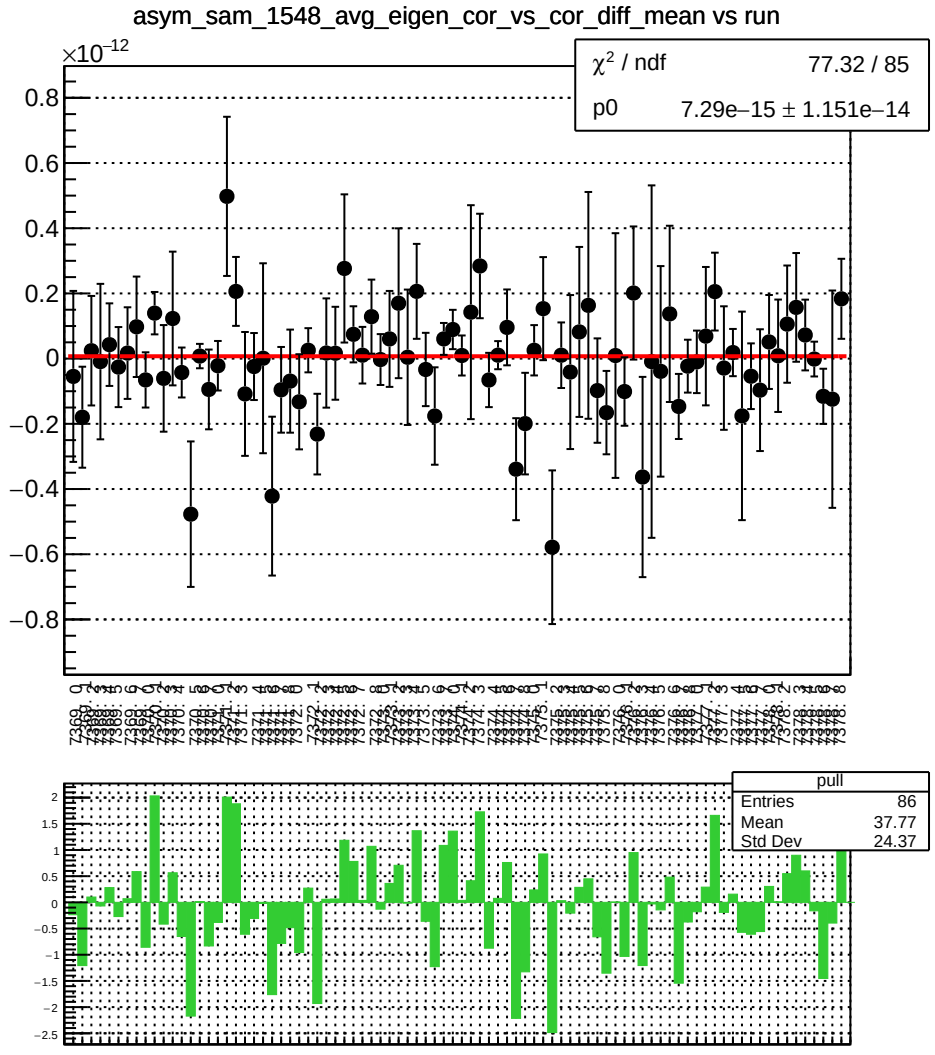

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3346 / 85
p0 0.002817 ± 2.173e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

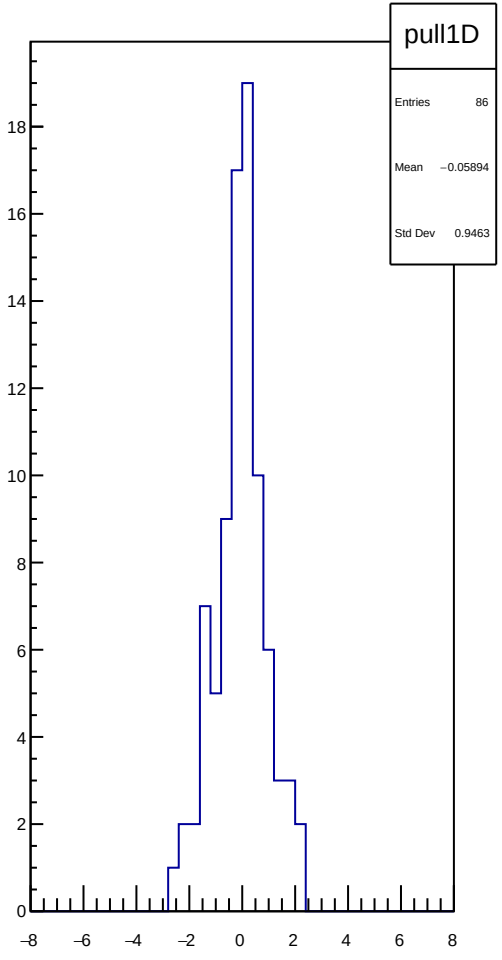

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.4 / 85
p0 0.006583 ± 0.192
pull
Entries 86
Mean 135.5
Std Dev 0
pull1D
Entries 86
Mean −0.01259
Std Dev 1.102

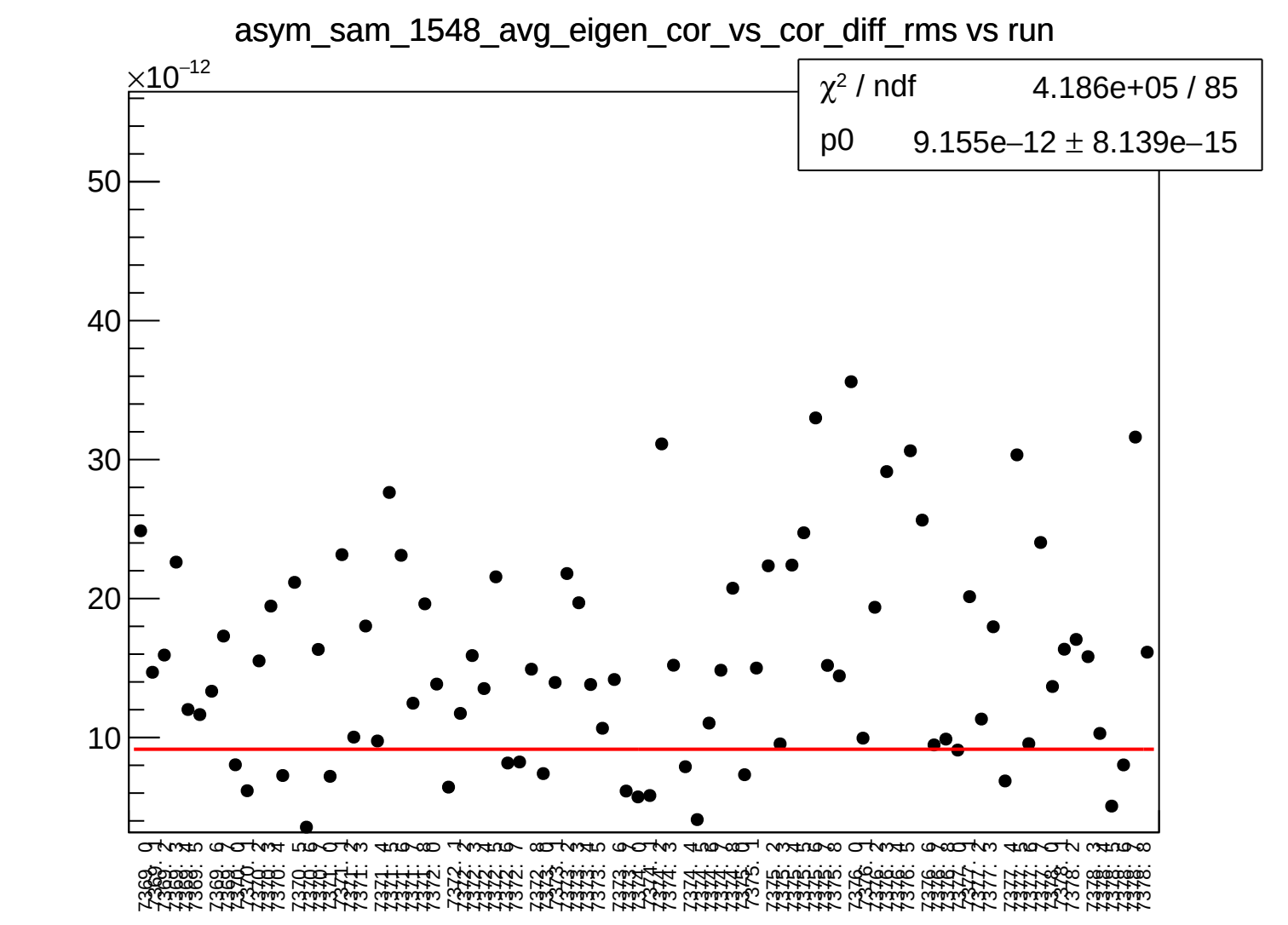

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.884e+05 / 85
p0 166.1 ± 0.1358
350
300
250
200
150
100

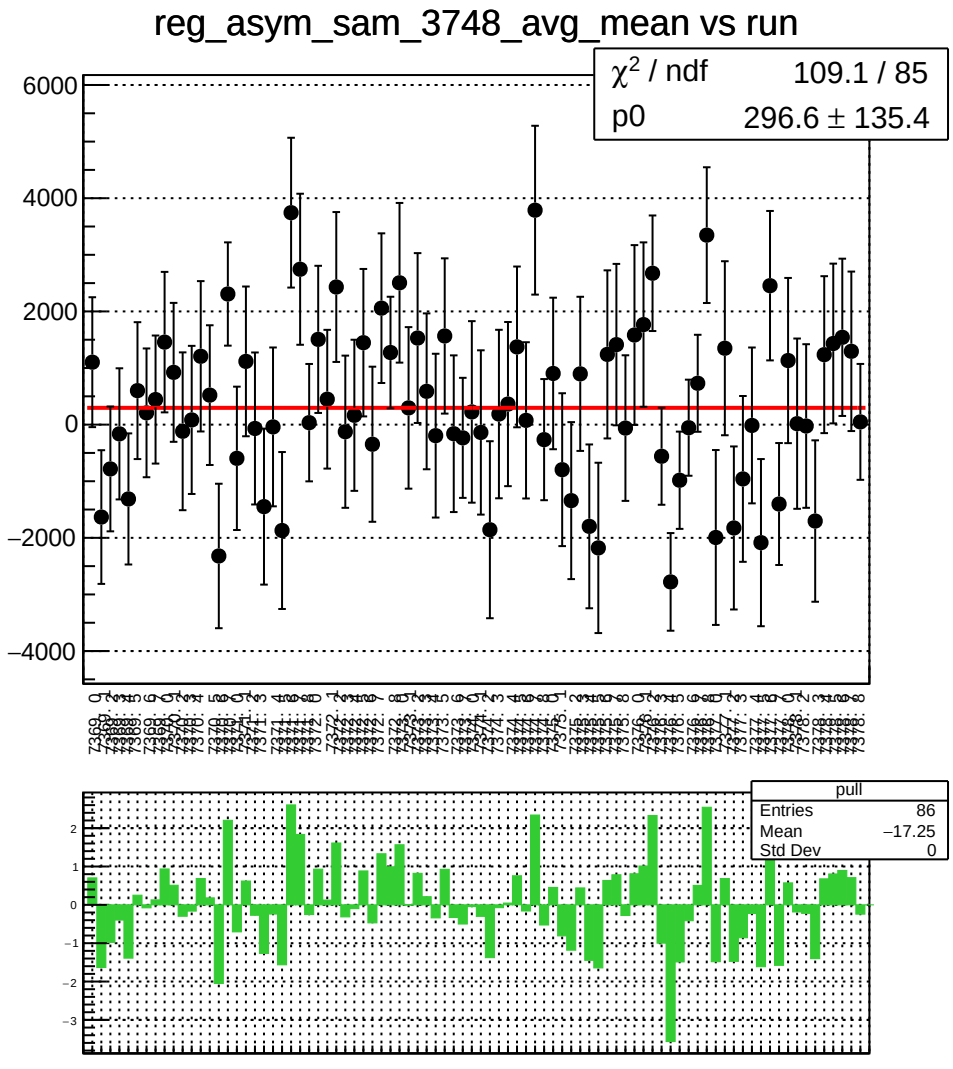

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.4 / 85
p0 0.006583 ± 0.192
pull
Entries 86
Mean 135.5
Std Dev 0
pull1D
Entries 86
Mean −0.01259
Std Dev 1.102

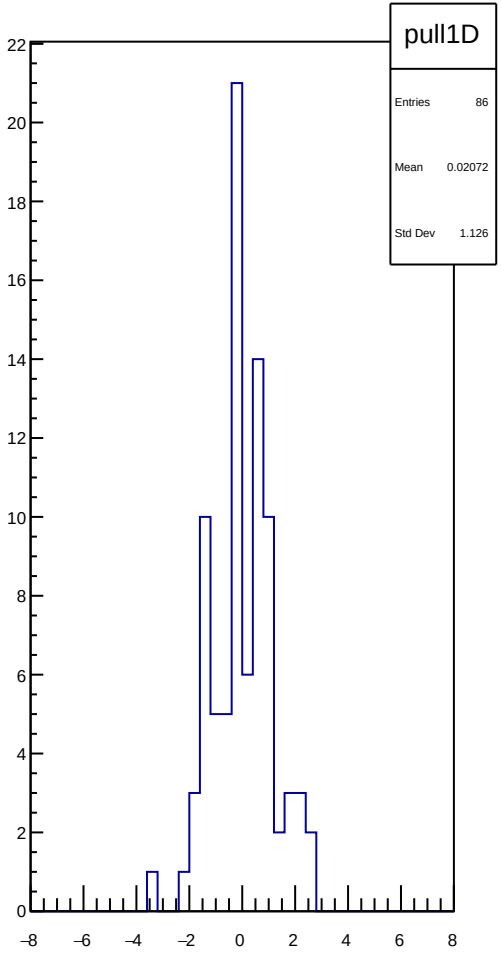

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.884e+05 / 85
p0 166.1 ± 0.1358
350
300
250
200
150
100

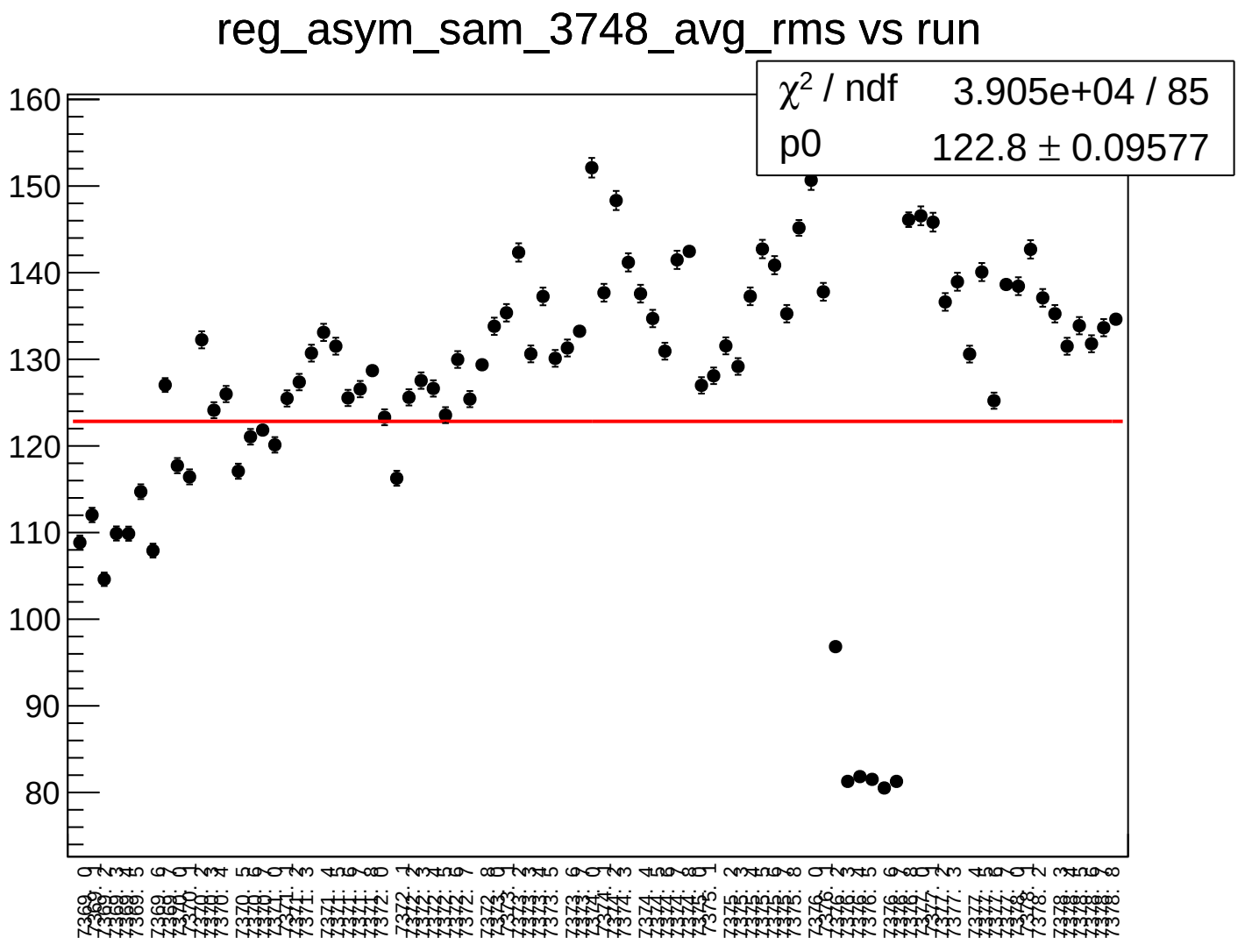

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.32 / 85
p0 7.29e−15 ± 1.151e−14
pull
Entries 86
Mean 37.77
Std Dev 24.37

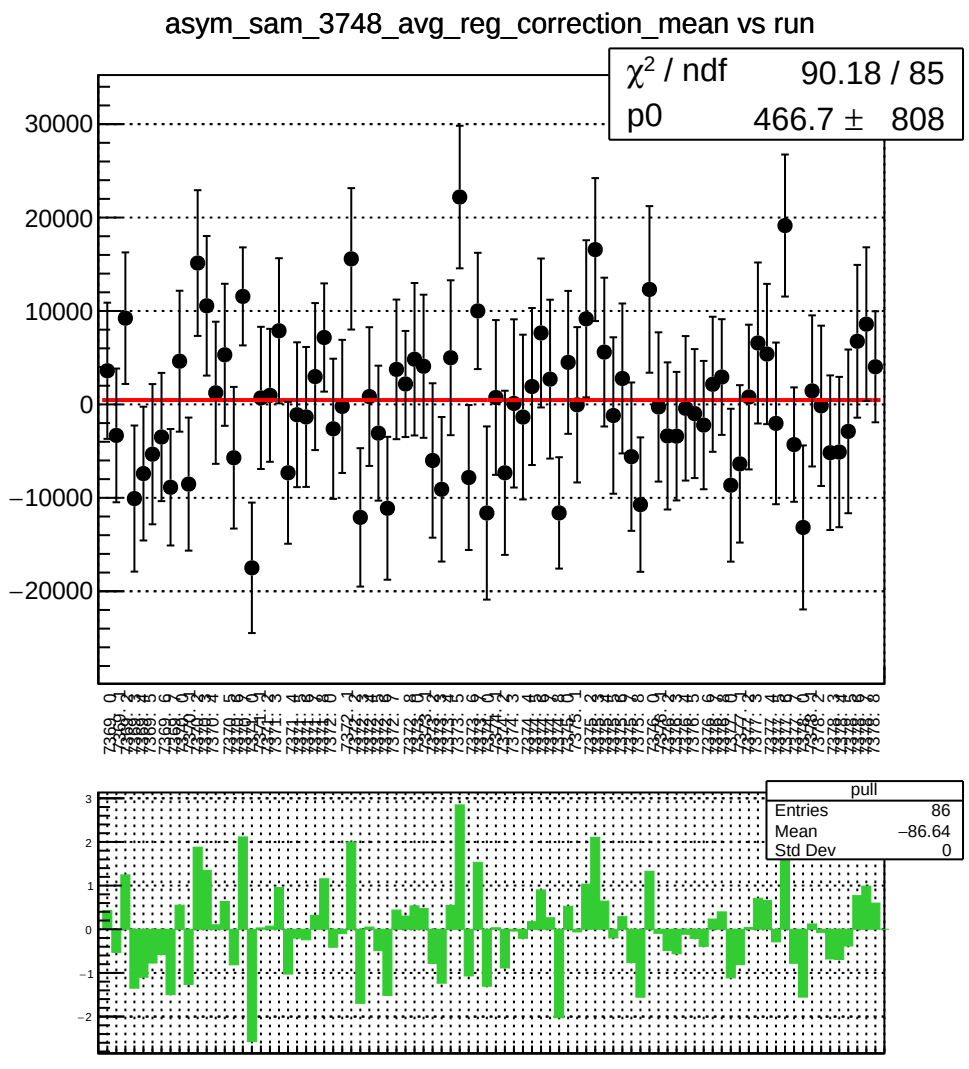

pull1D
Entries 86
Mean −0.05894
Std Dev 0.9463

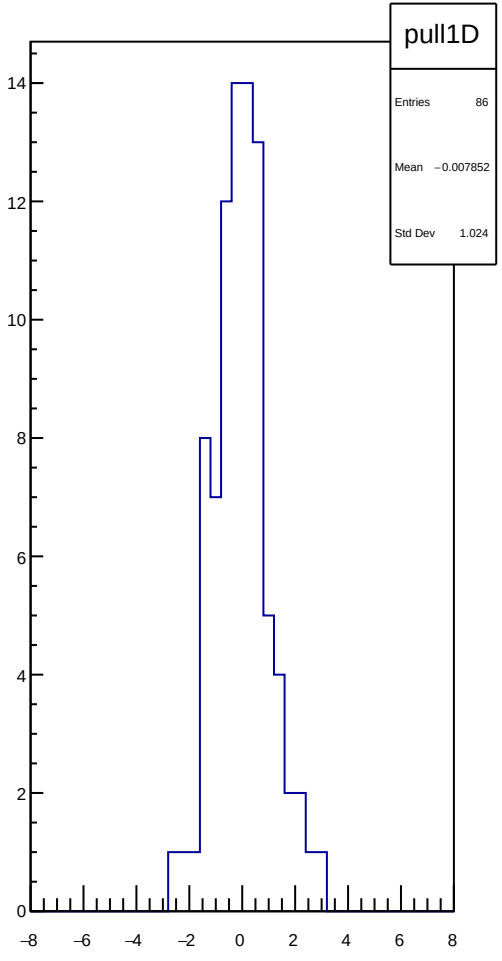

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.186e+05 / 85
p0 9.155e−12 ± 8.139e−15
50
40
30
20
10


reg_asym_sam_3748_avg_mean vs run
χ² / ndf 109.1 / 85
p0 296.6 ± 135.4
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −17.25
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.02072
Std Dev 1.126
22
20
18
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
χ² / ndf 3.905e+04 / 85
p0 122.8 ± 0.09577
160
150
140
130
120
110
100
90
80


asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 90.18 / 85
p0 466.7 ± 808
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −86.64
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.007852
Std Dev 1.024
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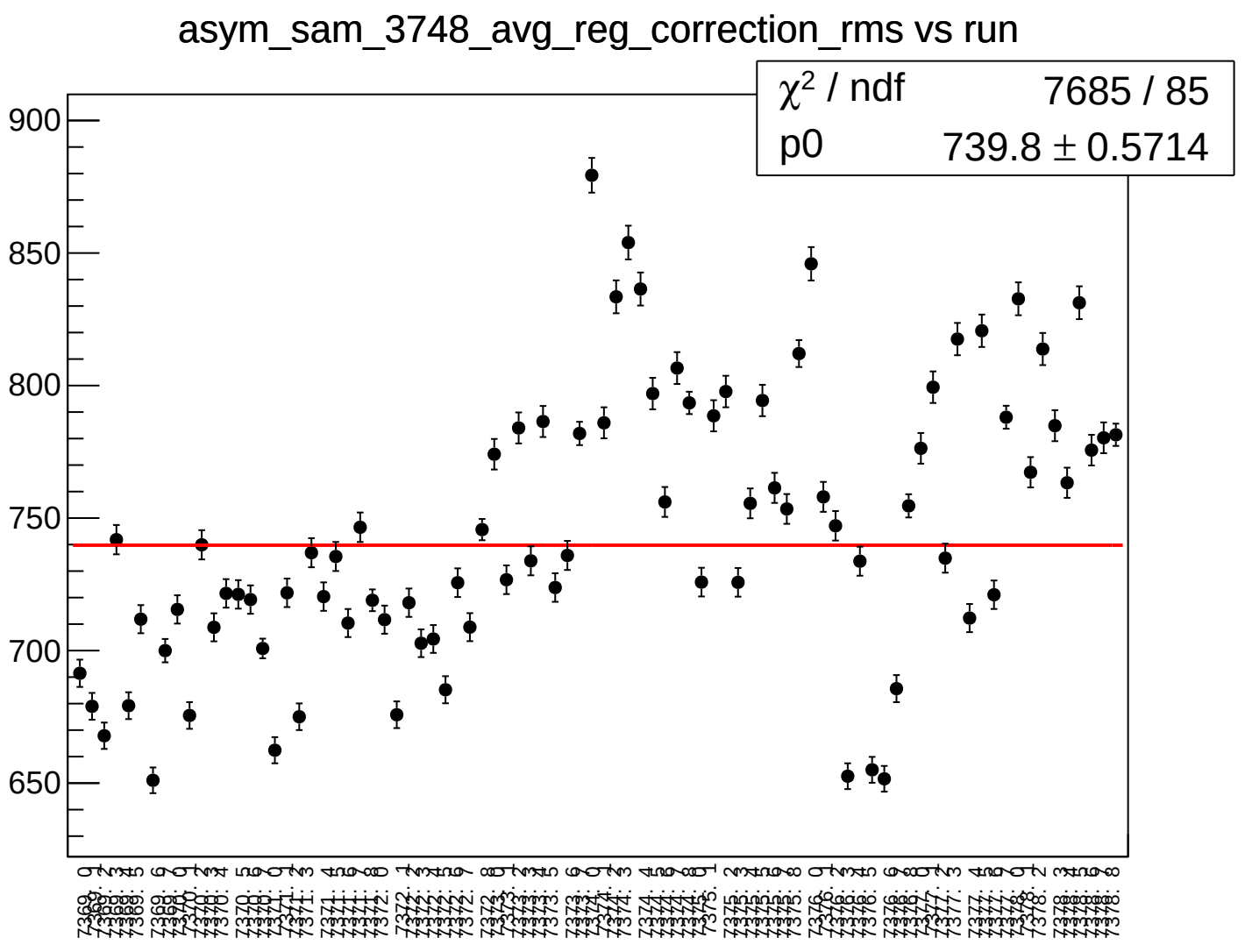
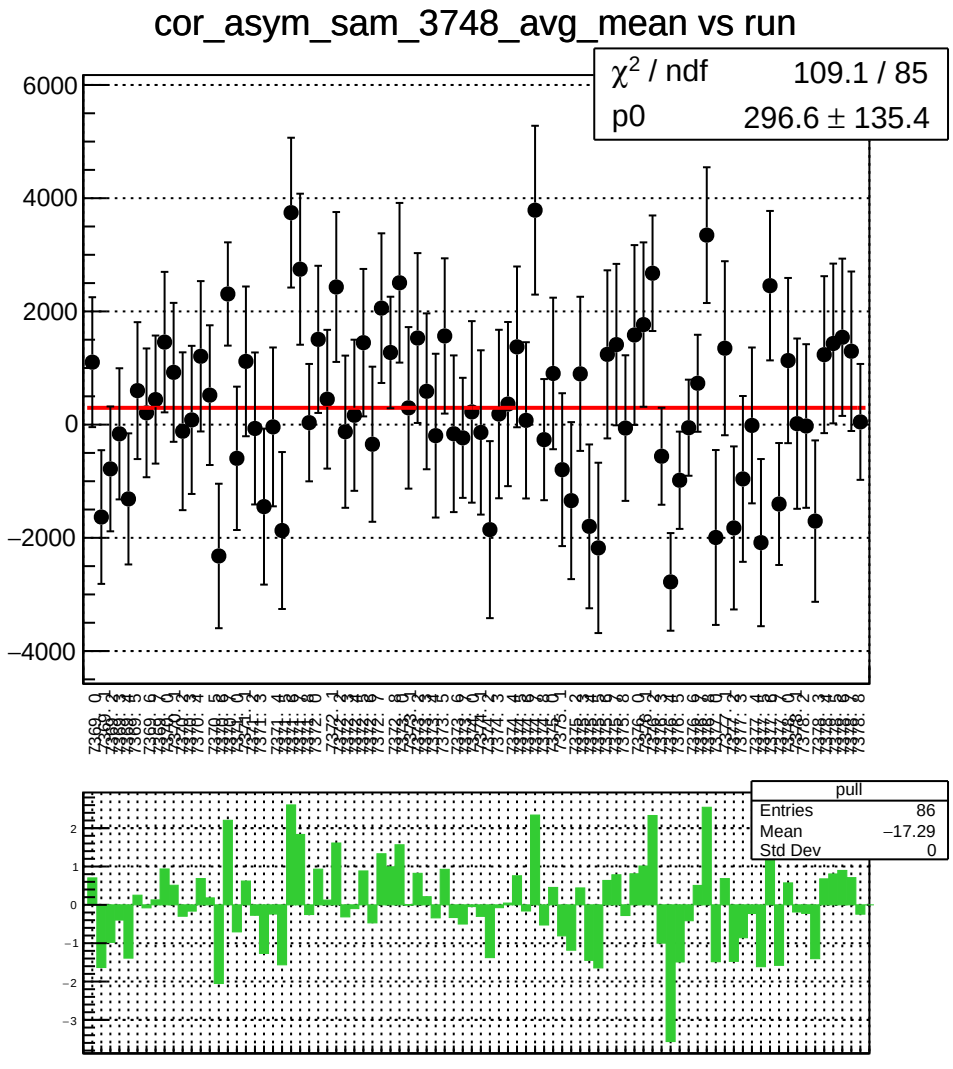
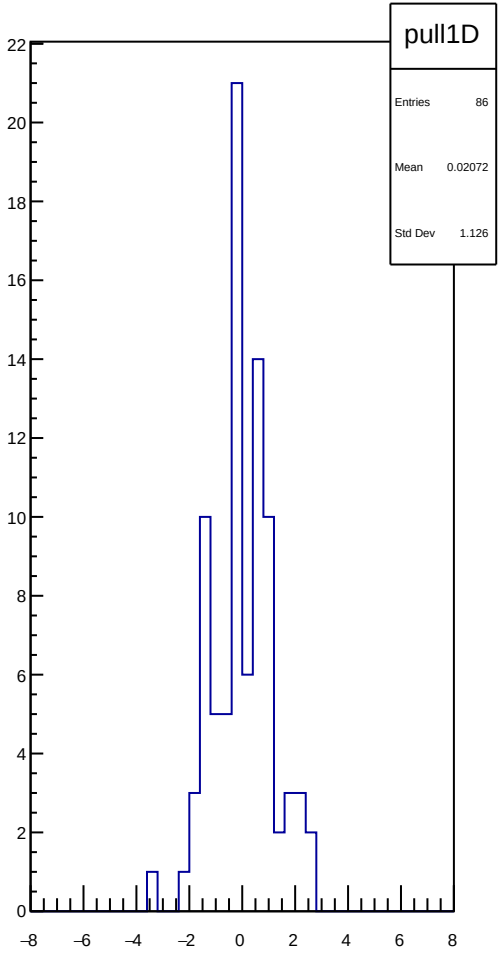
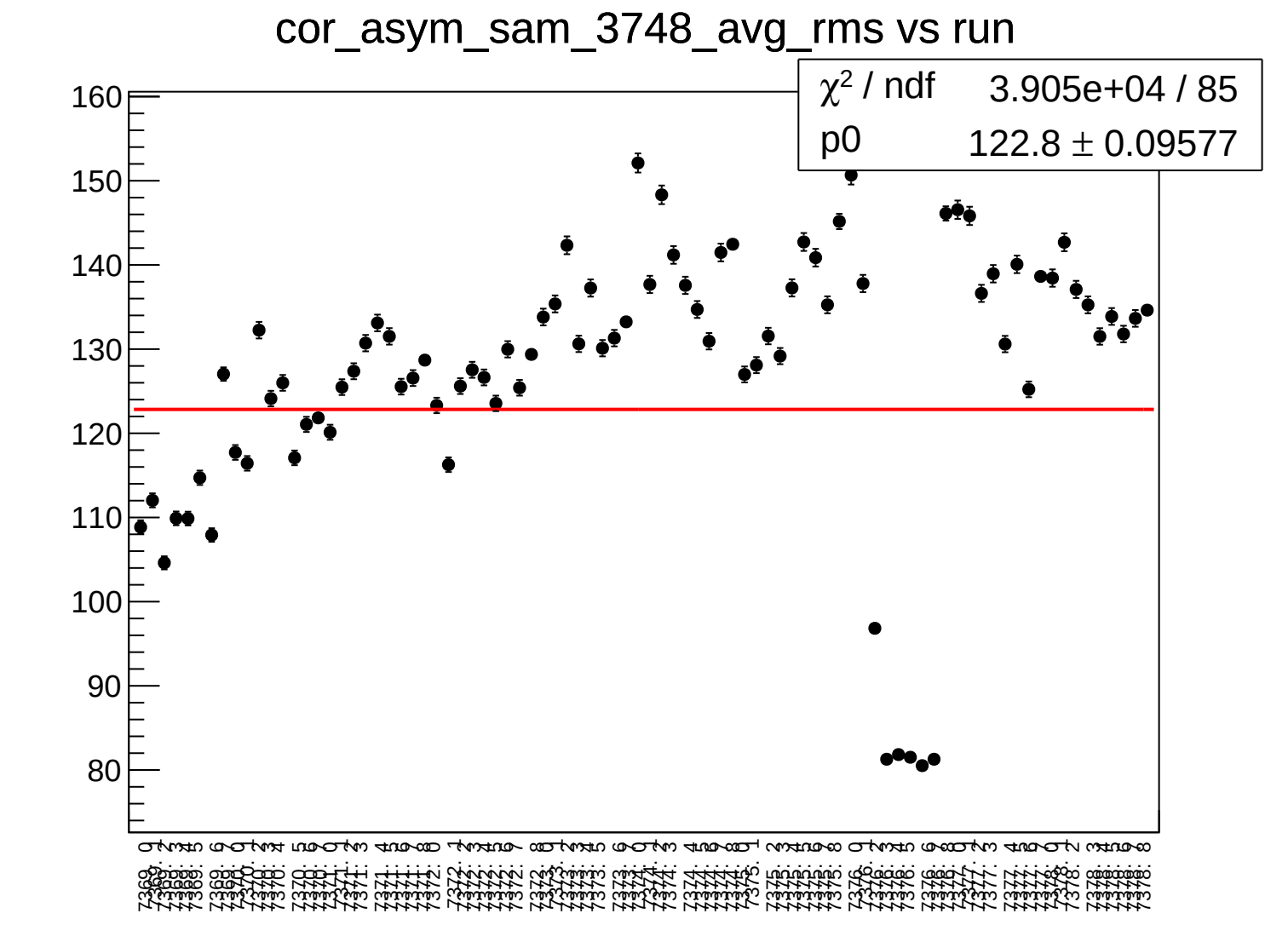
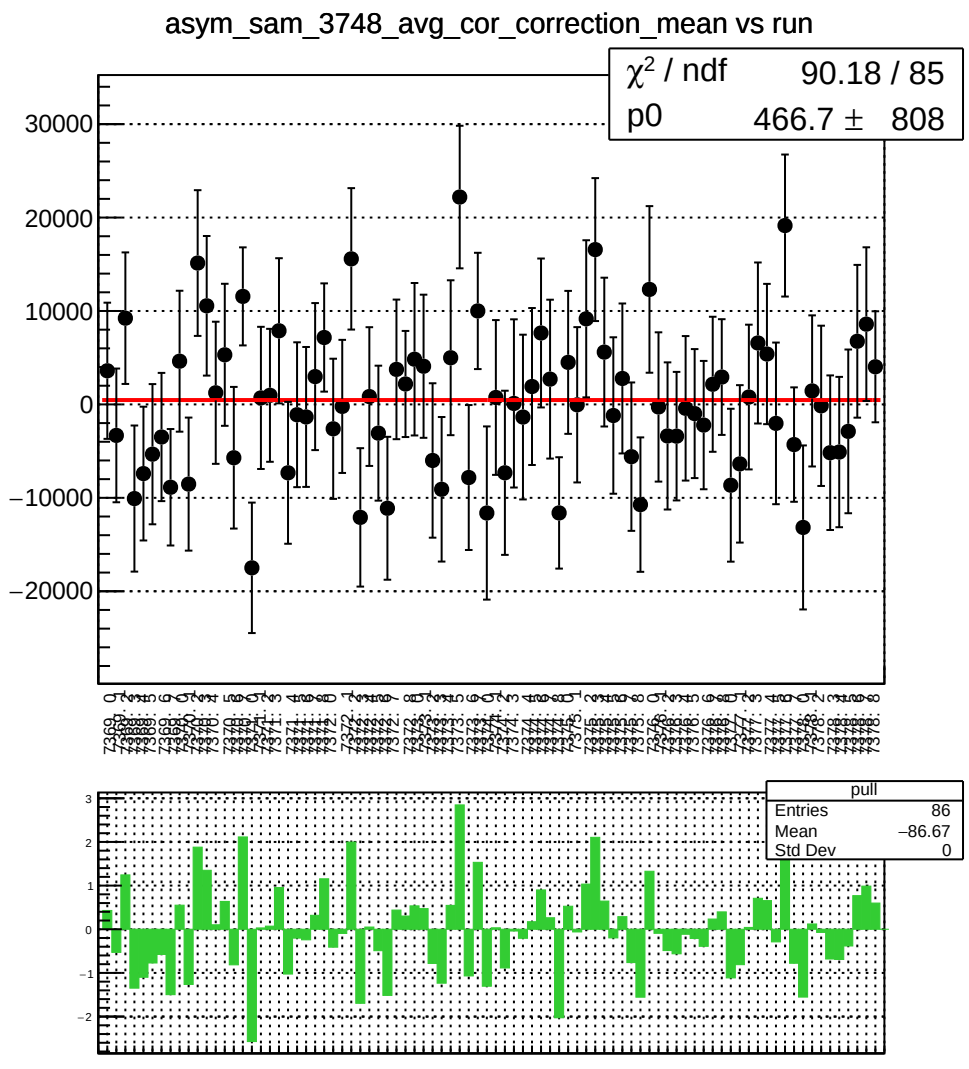
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

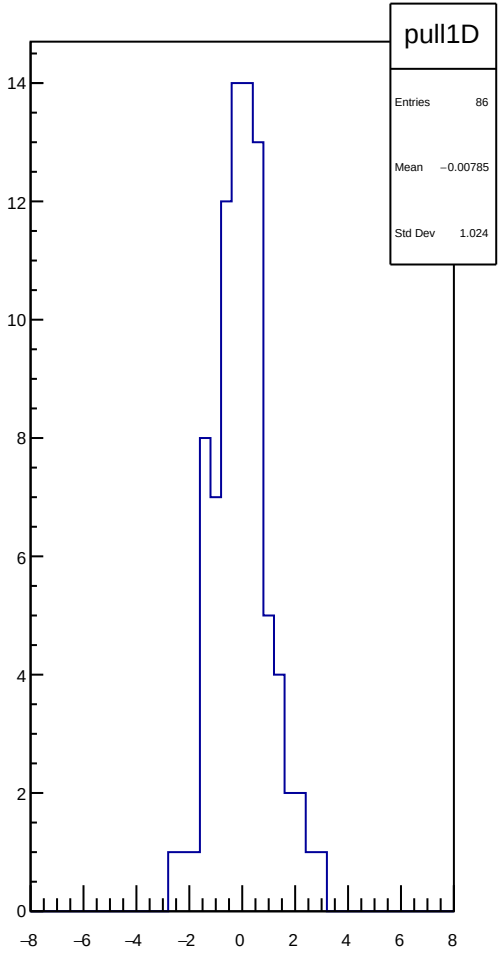

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 7685 / 85
p0 739.8 ± 0.5714
900
850
800
750
700
650


cor_asym_sam_3748_avg_mean vs run
χ² / ndf 109.1 / 85
p0 296.6 ± 135.4
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −17.29
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.02072
Std Dev 1.126
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3.905e+04 / 85
p0 122.8 ± 0.09577
160
150
140
130
120
110
100
90
80


asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 90.18 / 85
p0 466.7 ± 808
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −86.67
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.00785
Std Dev 1.024
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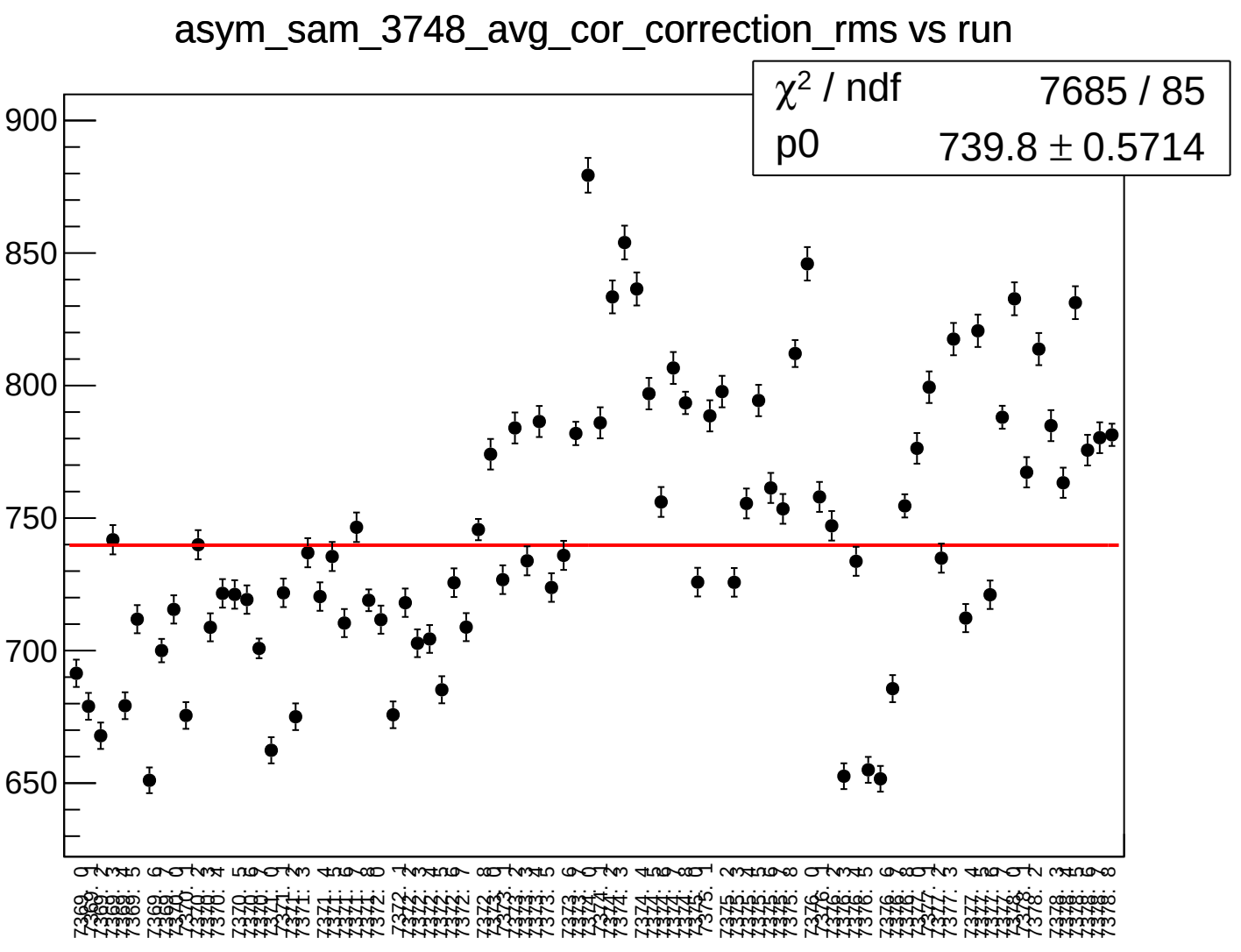
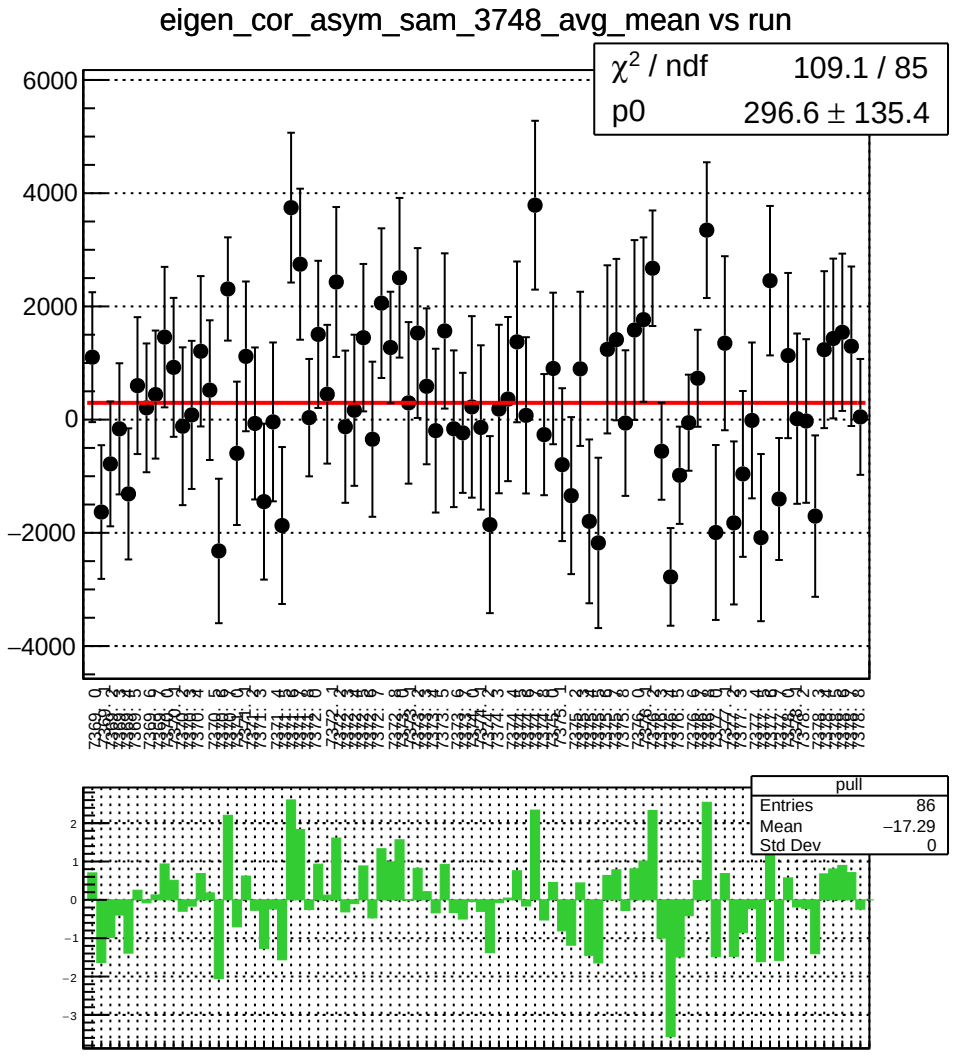
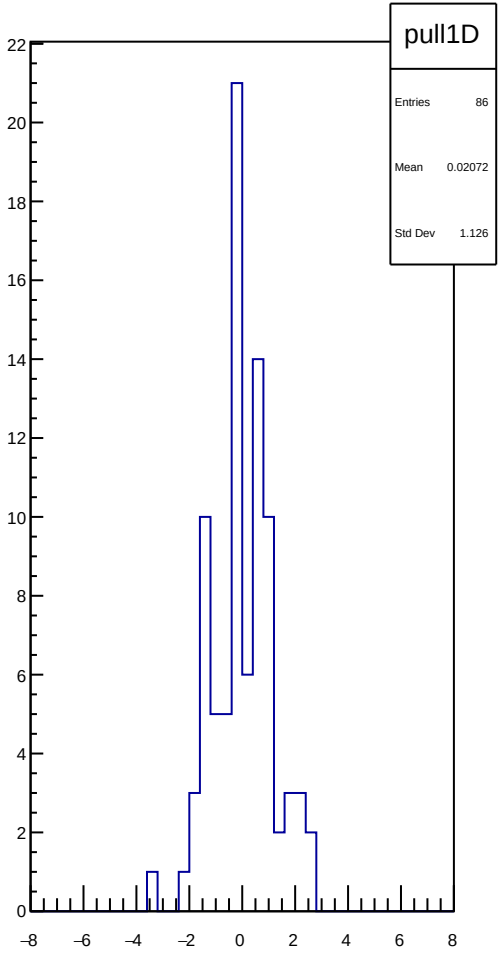
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 7685 / 85
p0 739.8 ± 0.5714
900
850
800
750
700
650


eigen_cor_asym_sam_3748_avg_mean vs run
χ^2 / ndf 109.1 / 85
p0 296.6 ± 135.4
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −17.29
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.02072
Std Dev 1.126
22
20
18
16
14
12
10
8
6
4
2
0
−8
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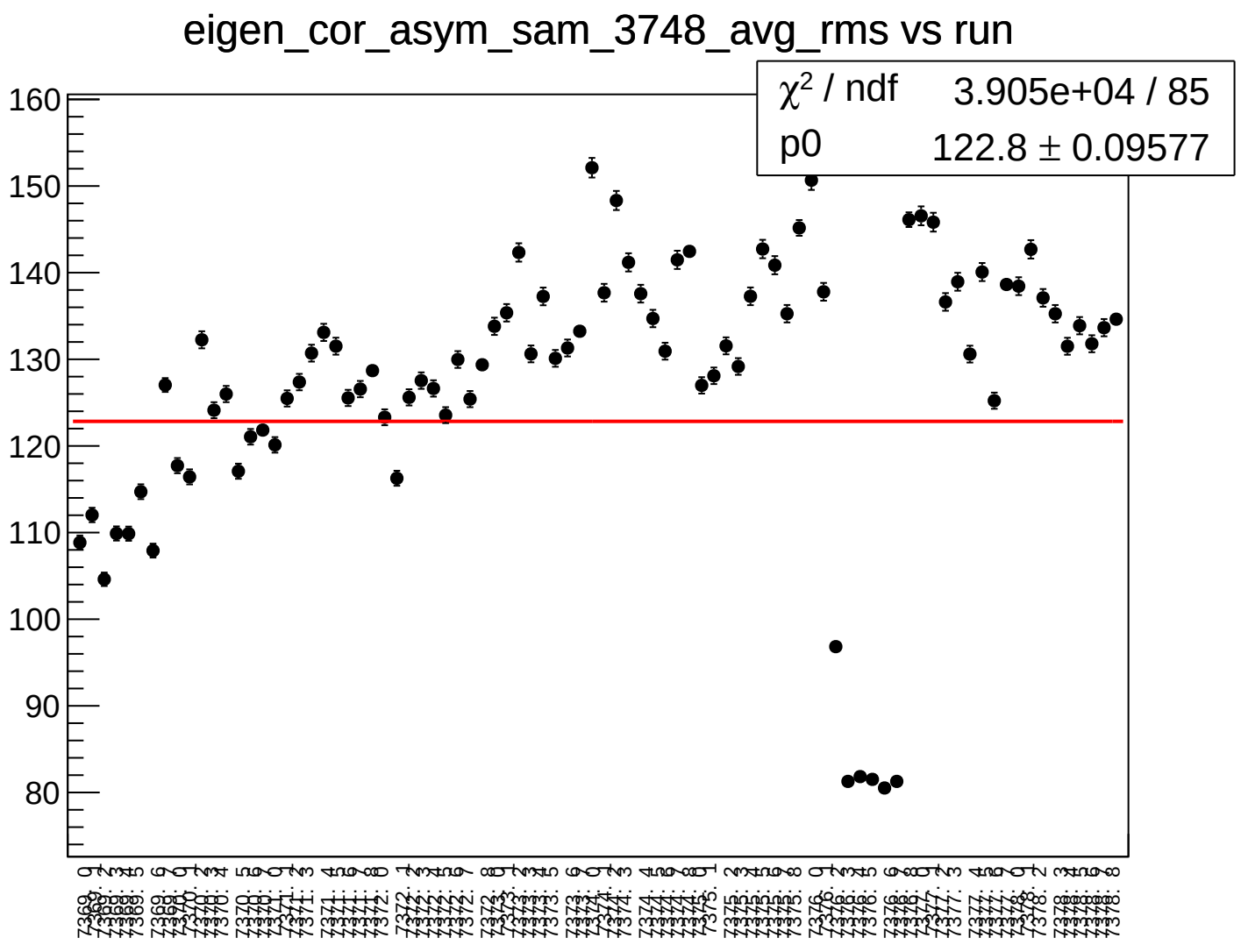
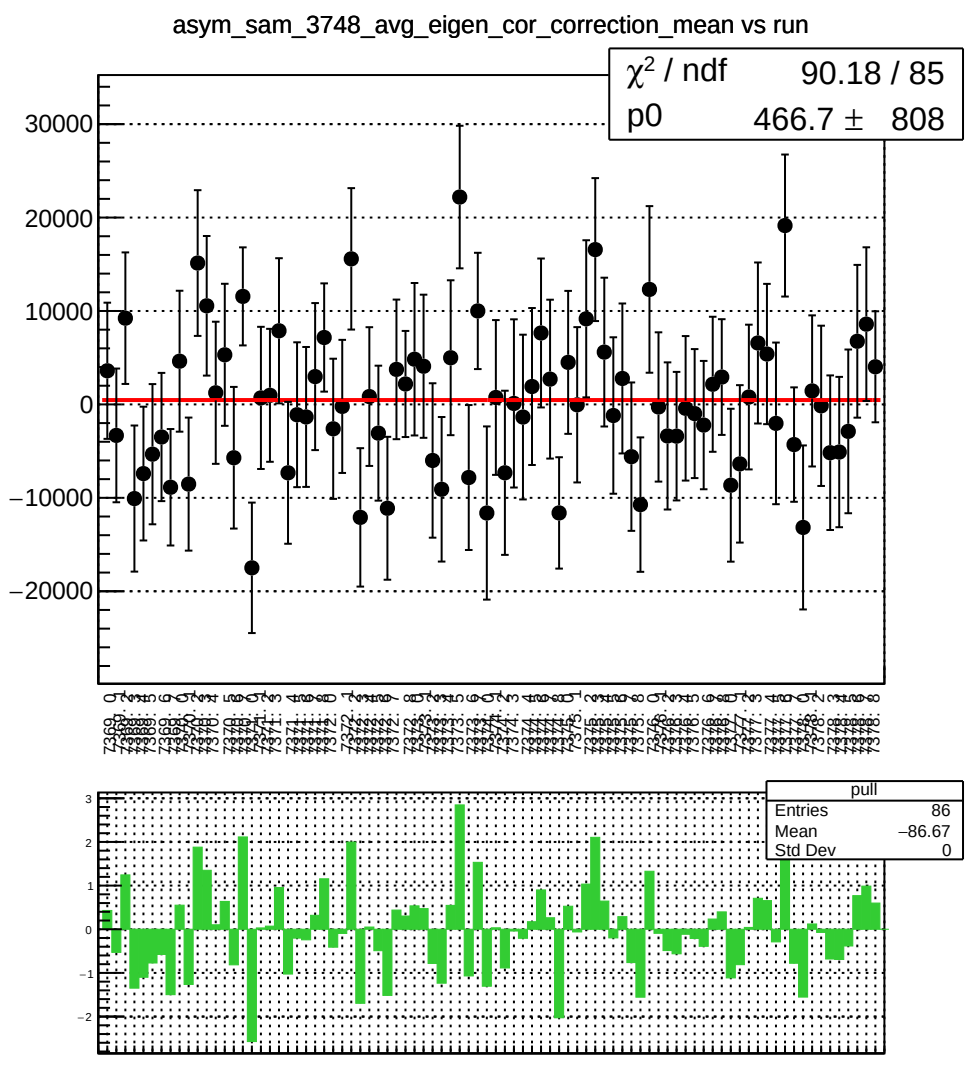
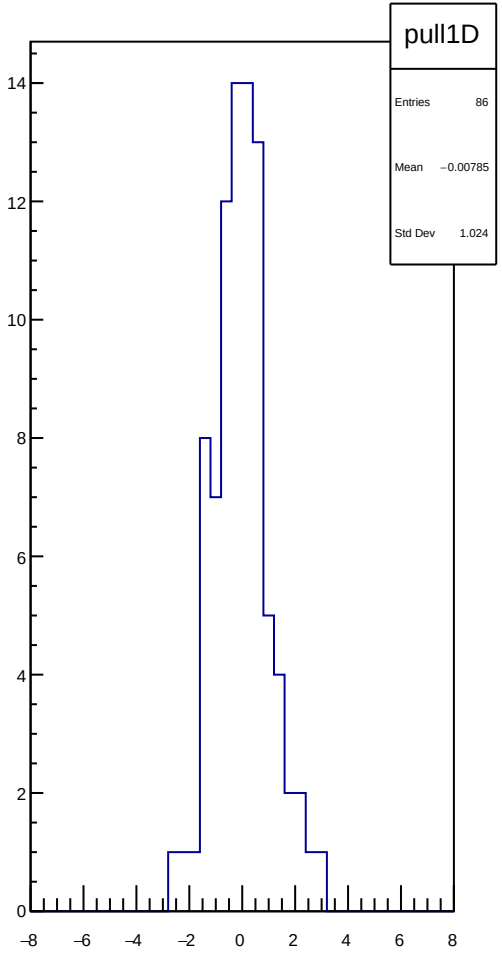
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.905e+04 / 85
p0 122.8 ± 0.09577
160
150
140
130
120
110
100
90
80


asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.18 / 85
p0 466.7 ± 808
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −86.67
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.00785
Std Dev 1.024
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10
8
6
4
2
0
−8
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−4
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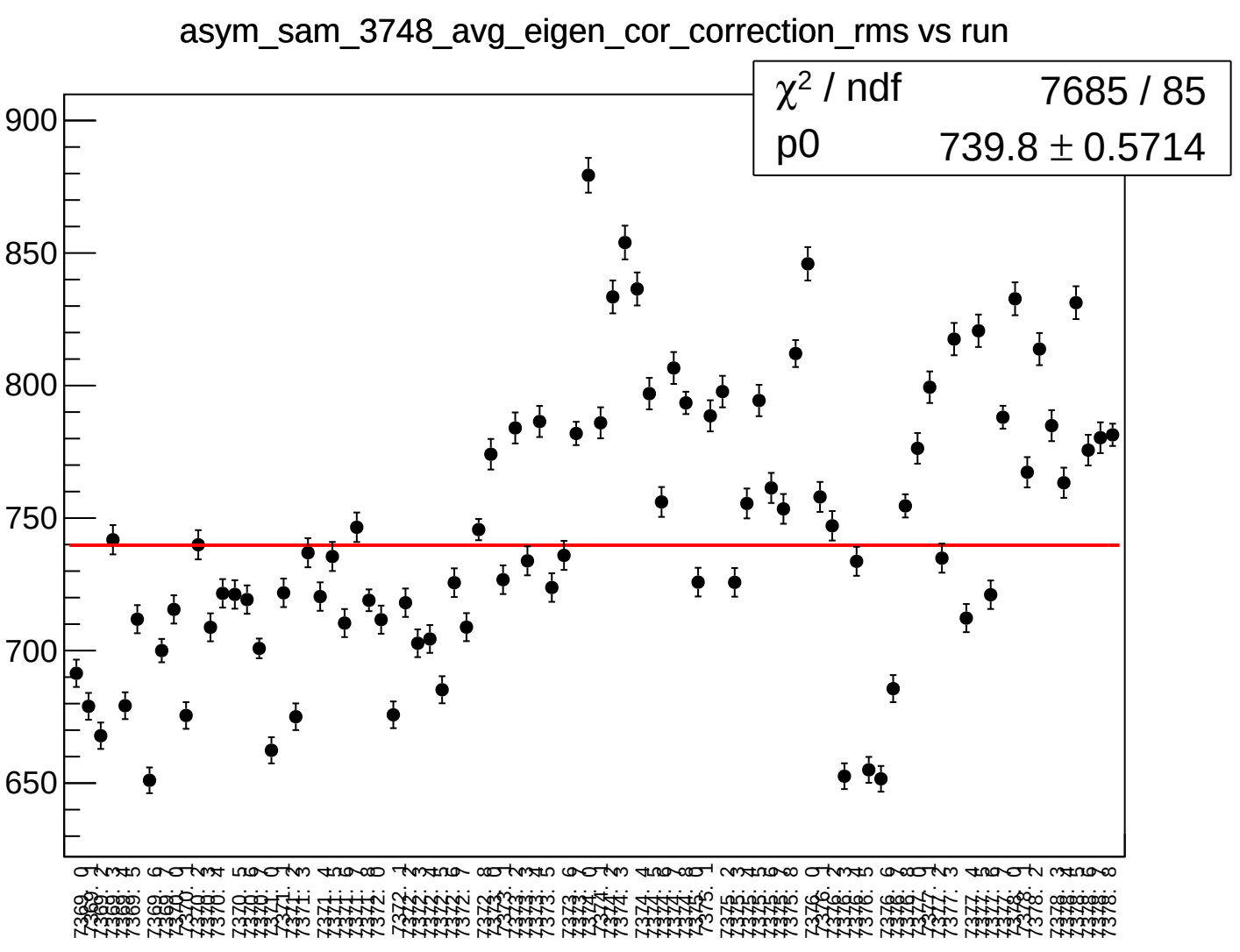
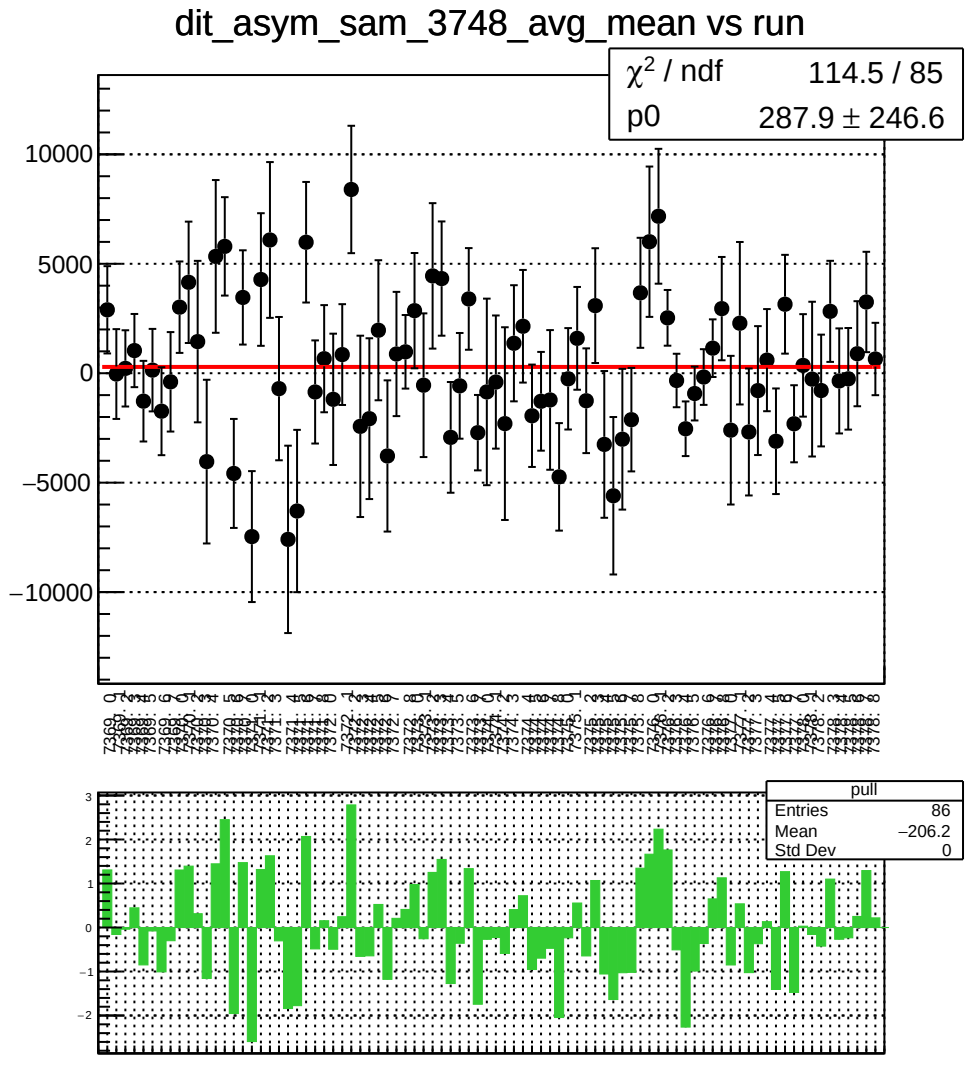
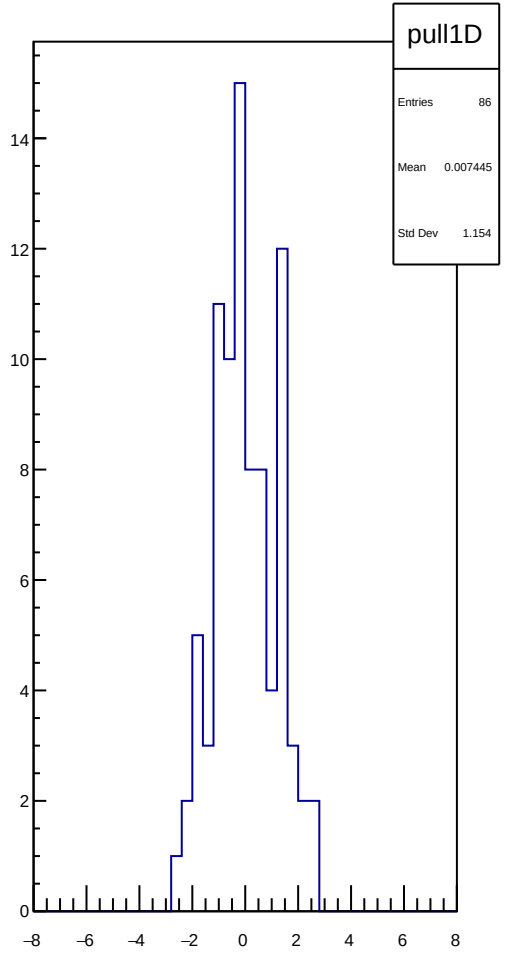
0
2
4
6
8


asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 7685 / 85
p0 739.8 ± 0.5714
900
850
800
750
700
650


dit_asym_sam_3748_avg_mean vs run
χ² / ndf 114.5 / 85
p0 287.9 ± 246.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −206.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.007445
Std Dev 1.154
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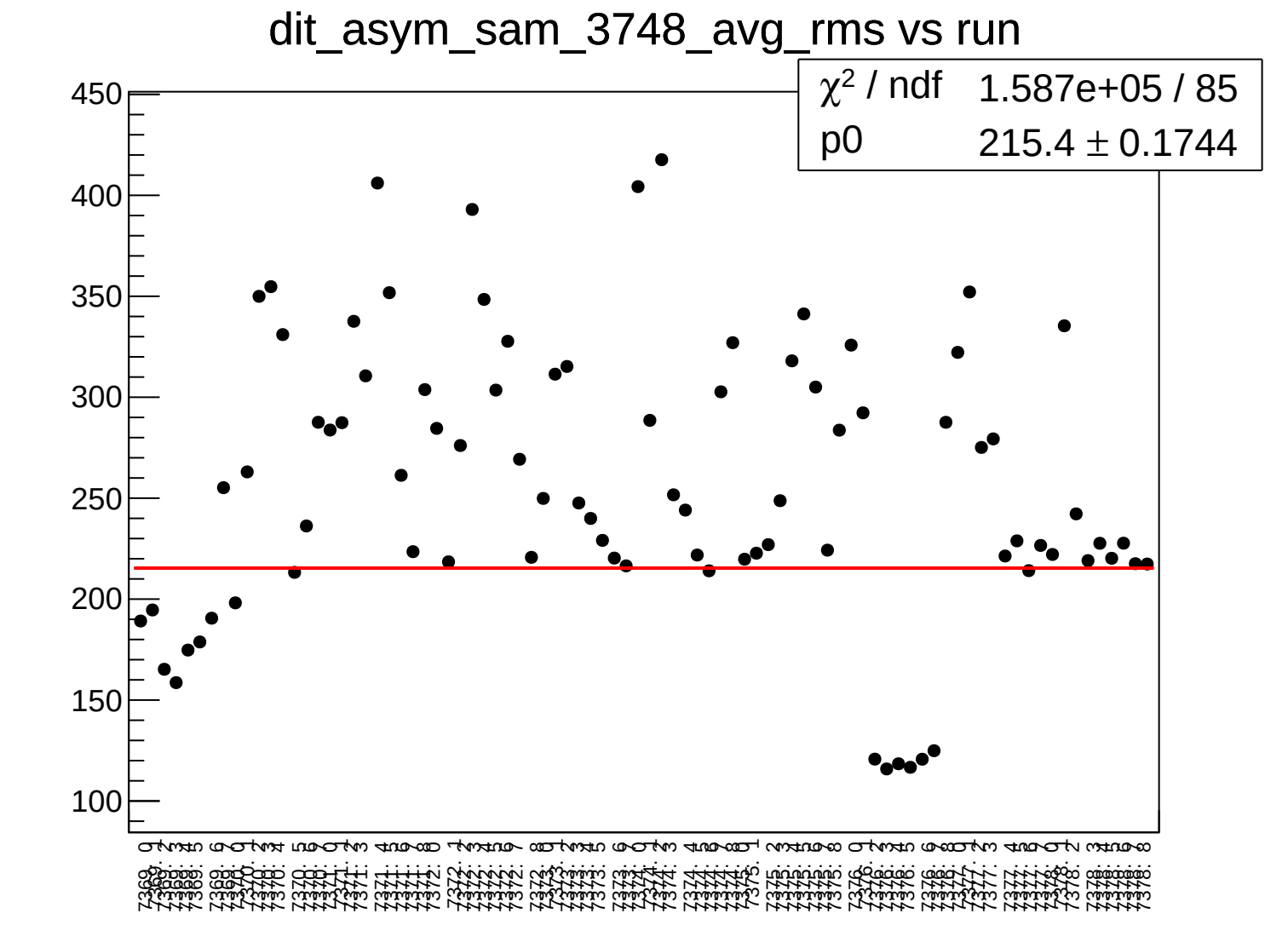
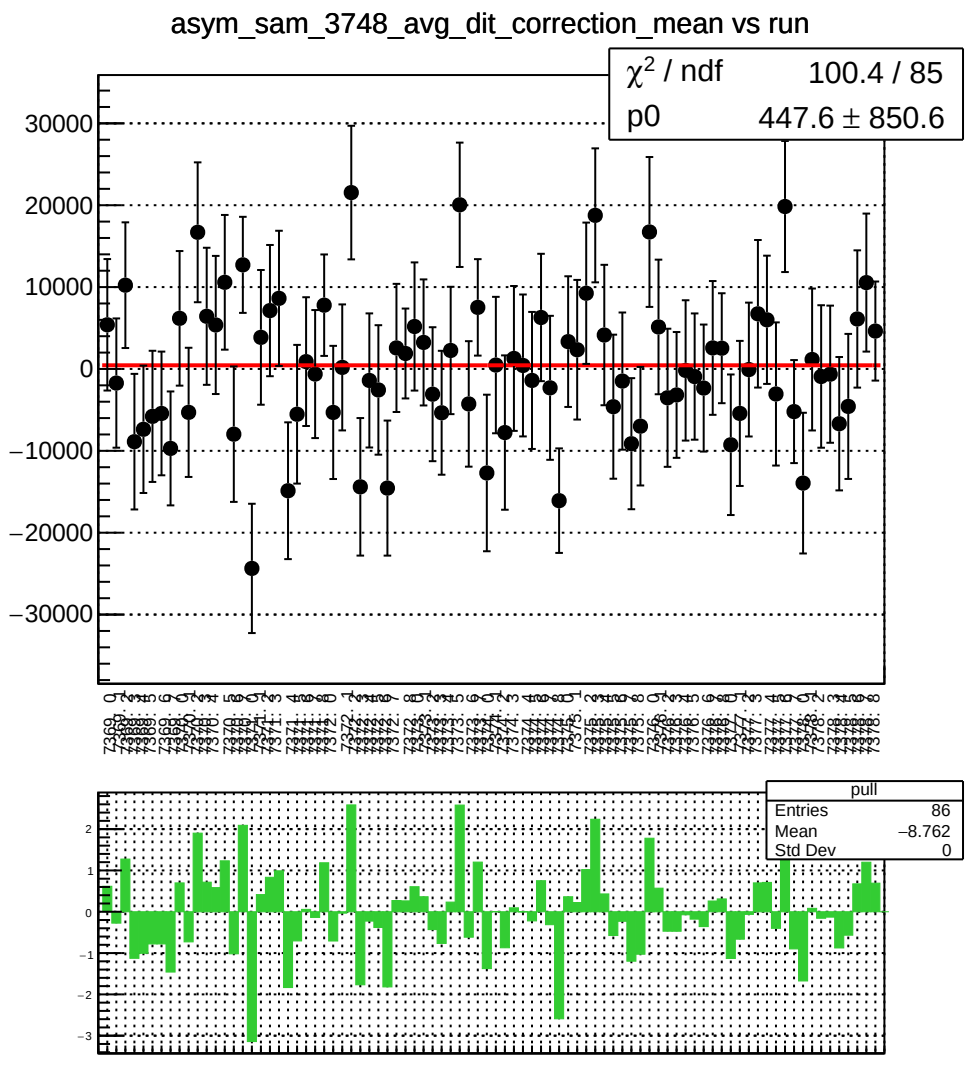
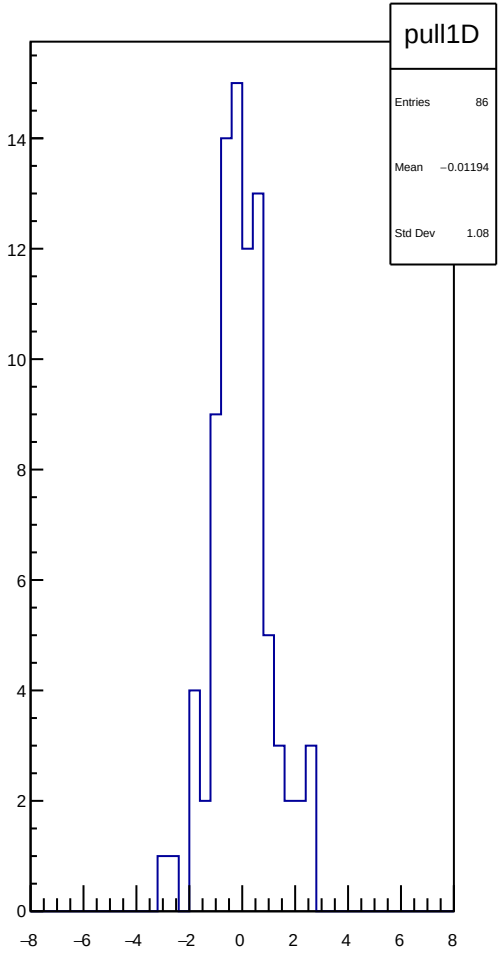
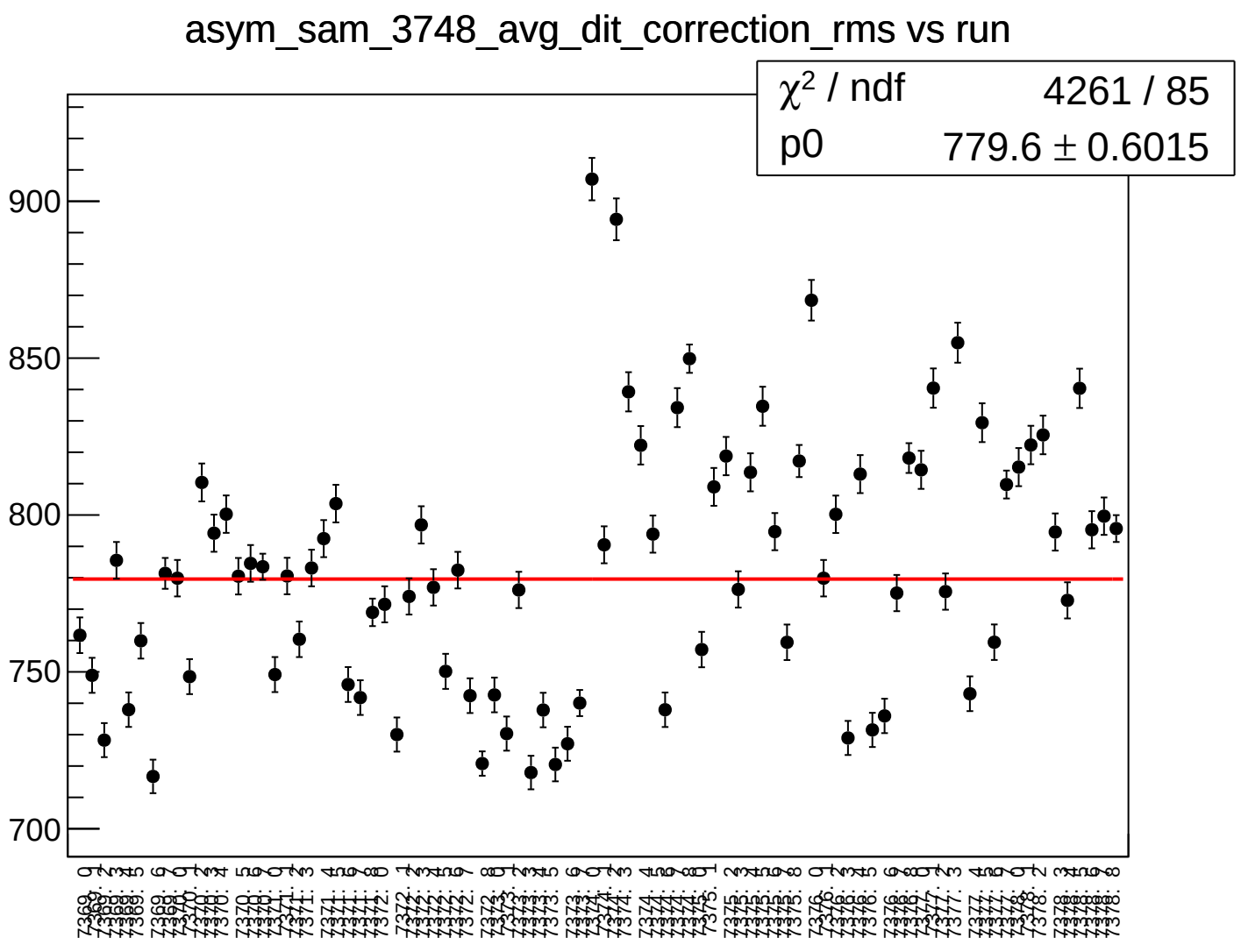
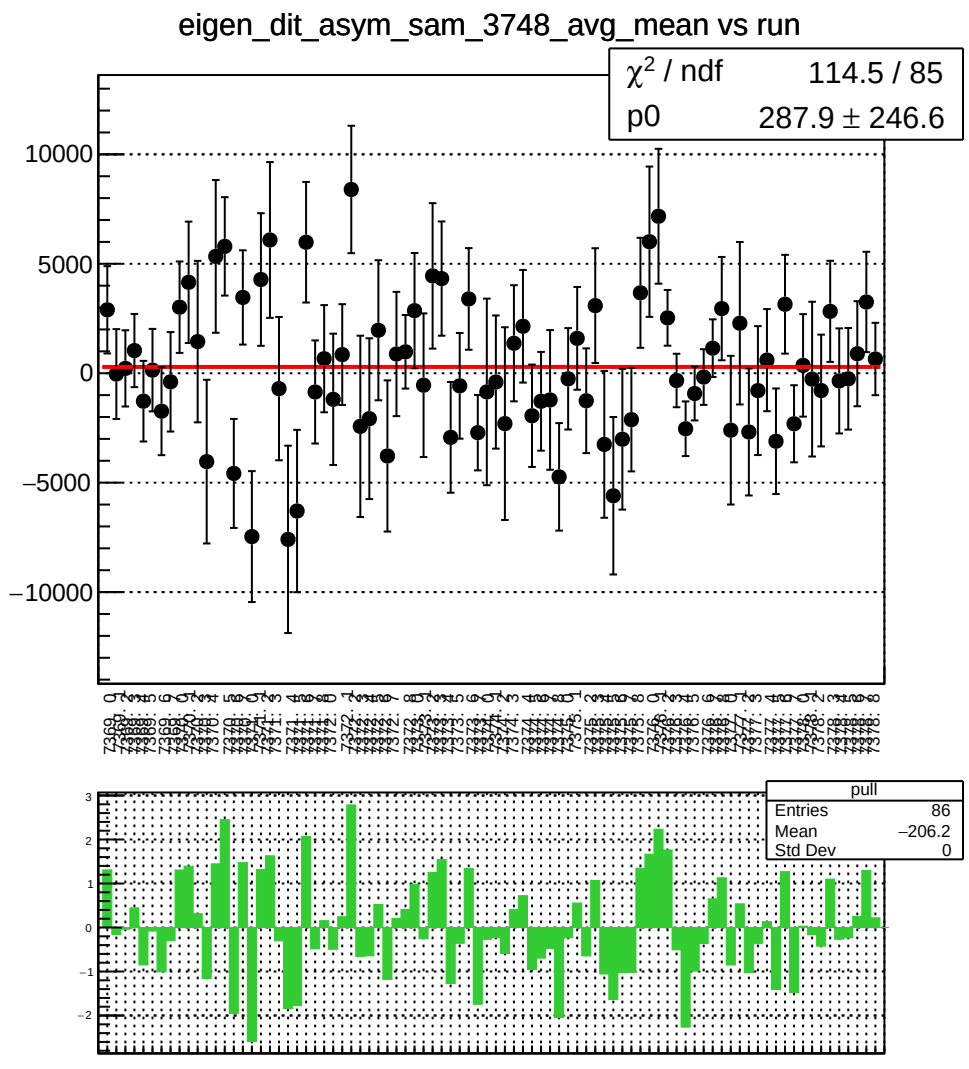
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

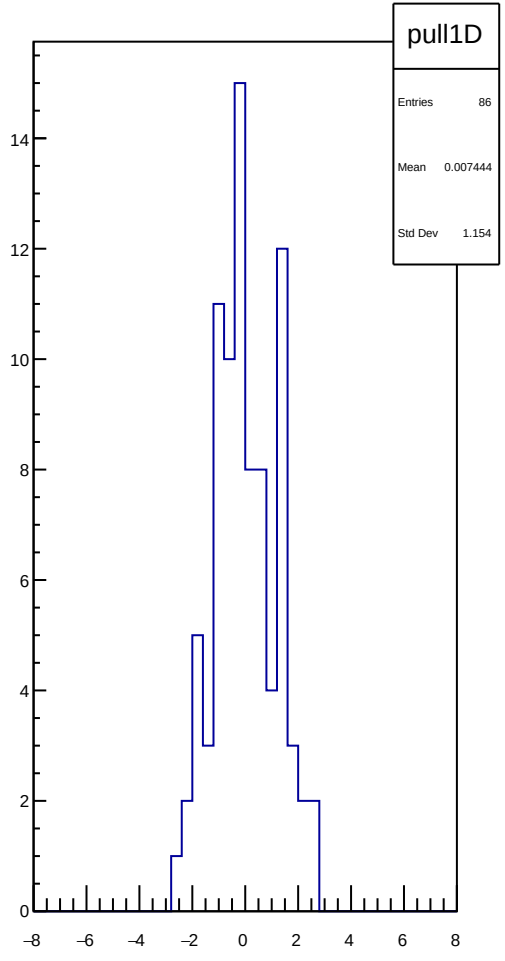

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.587e+05 / 85
p0 215.4 ± 0.1744
450
400
350
300
250
200
150
100


asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 100.4 / 85
p0 447.6 ± 850.6
pull
Entries 86
Mean −8.762
Std Dev 0


pull1D
Entries 86
Mean −0.01194
Std Dev 1.08


asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 4261 / 85
p0 779.6 ± 0.6015
900
850
800
750
700


eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 114.5 / 85
p0 287.9 ± 246.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −206.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.007444
Std Dev 1.154
14
12
10
8
6
4
2
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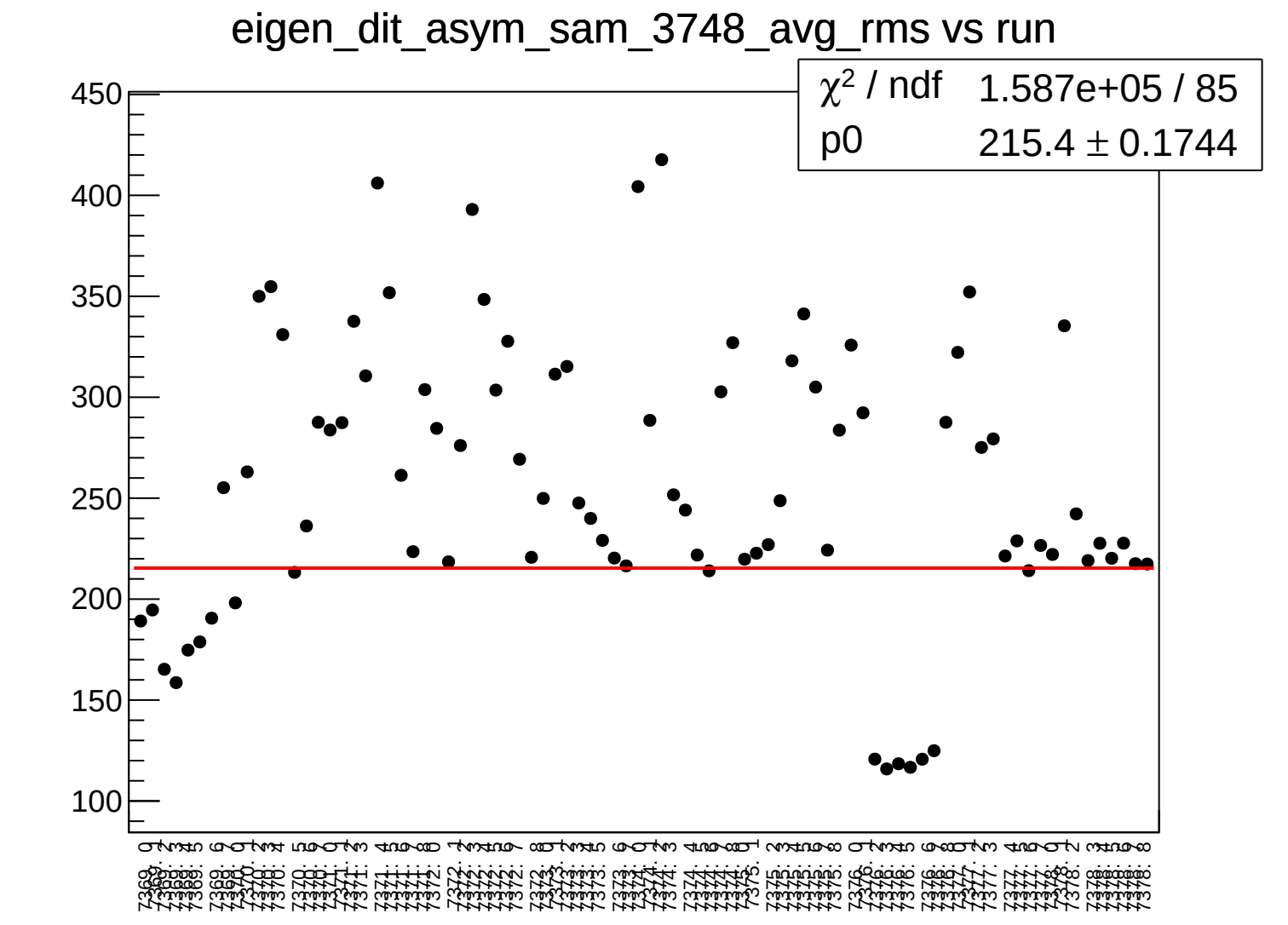
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.587e+05 / 85
p0 215.4 ± 0.1744
450
400
350
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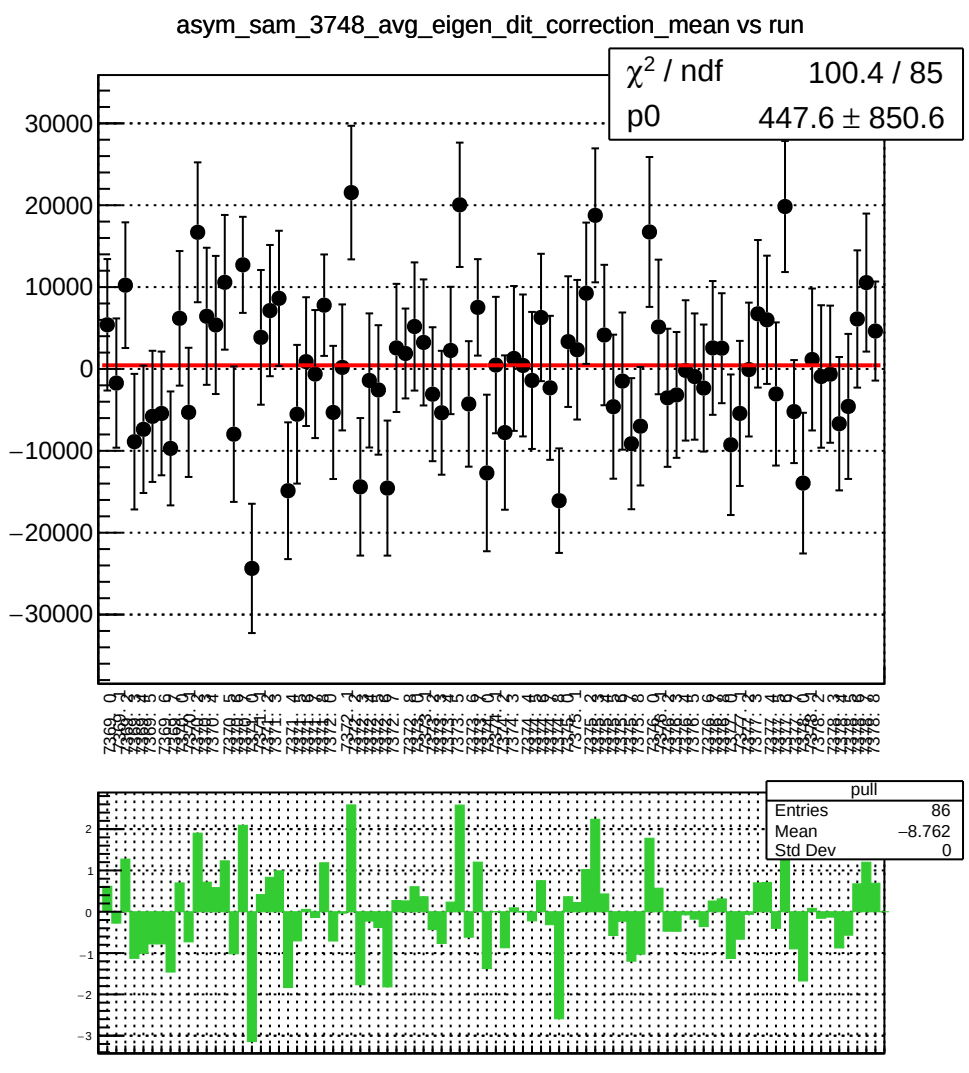
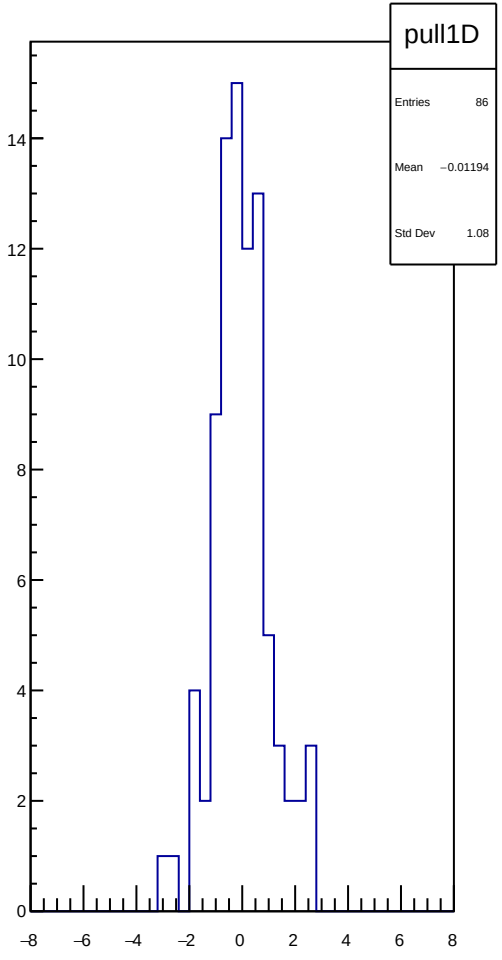
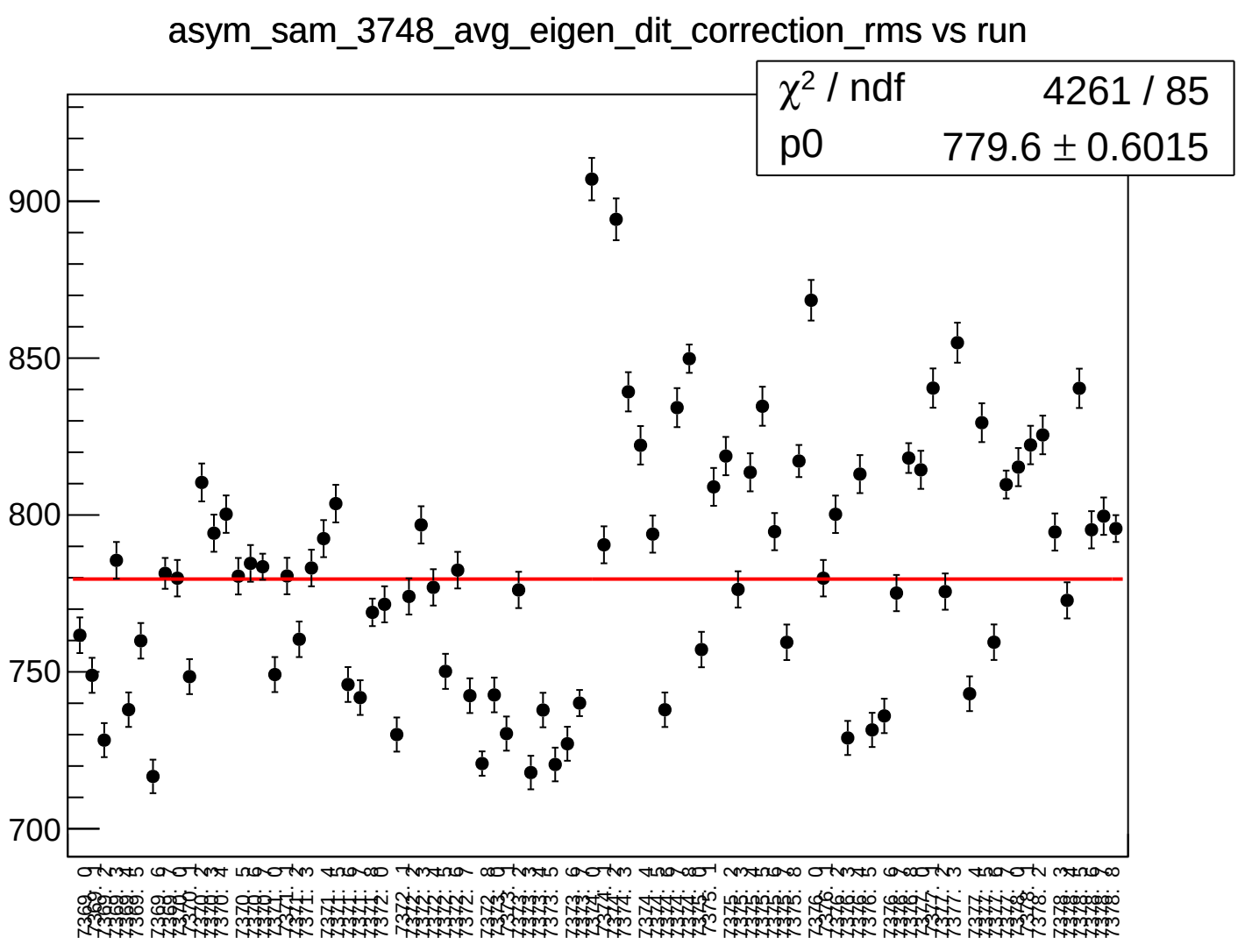
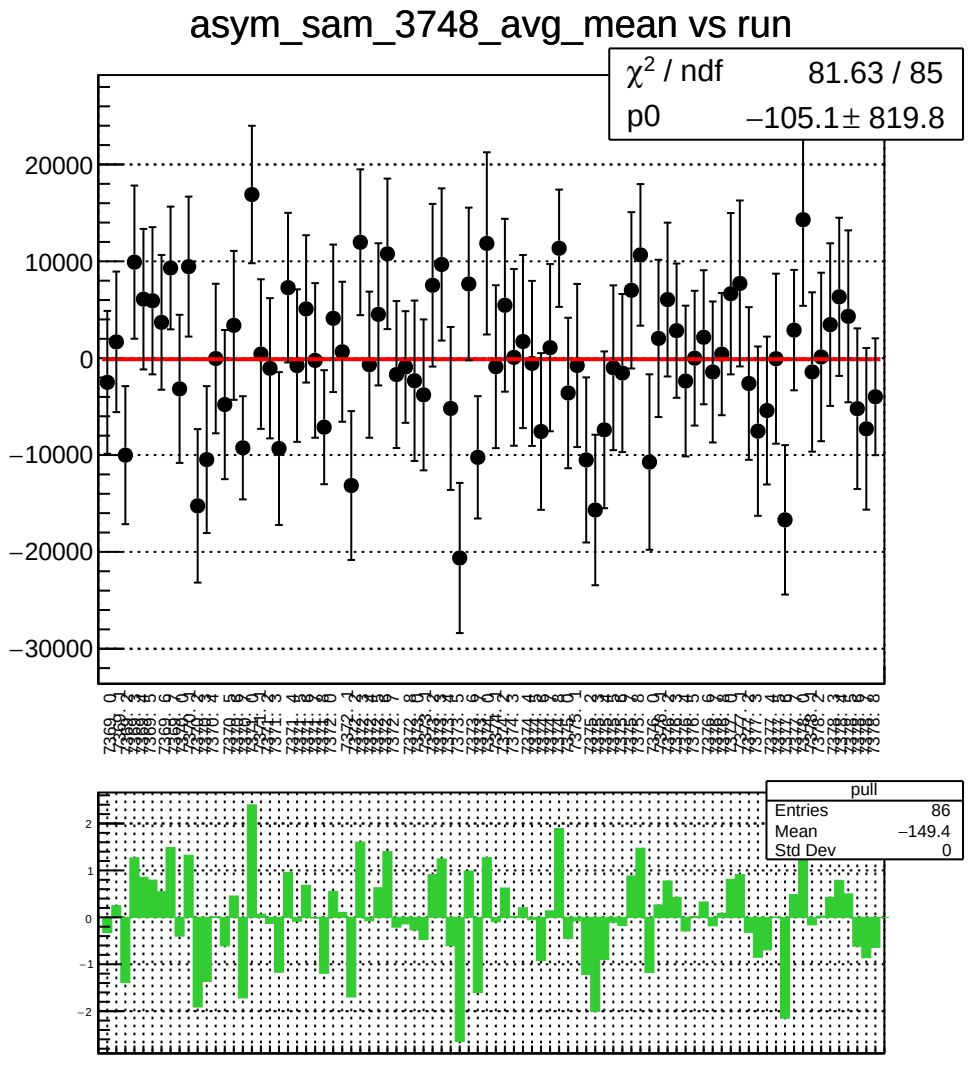
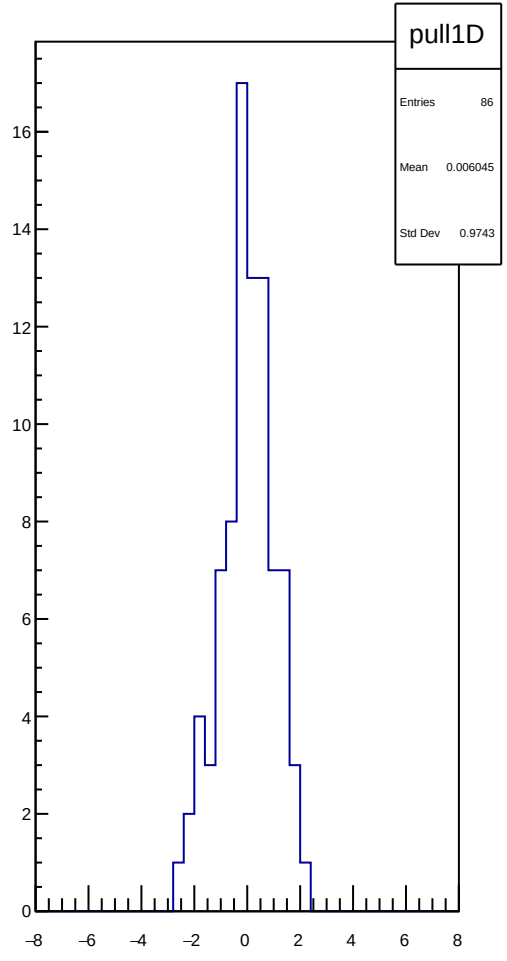
250
200
150
100

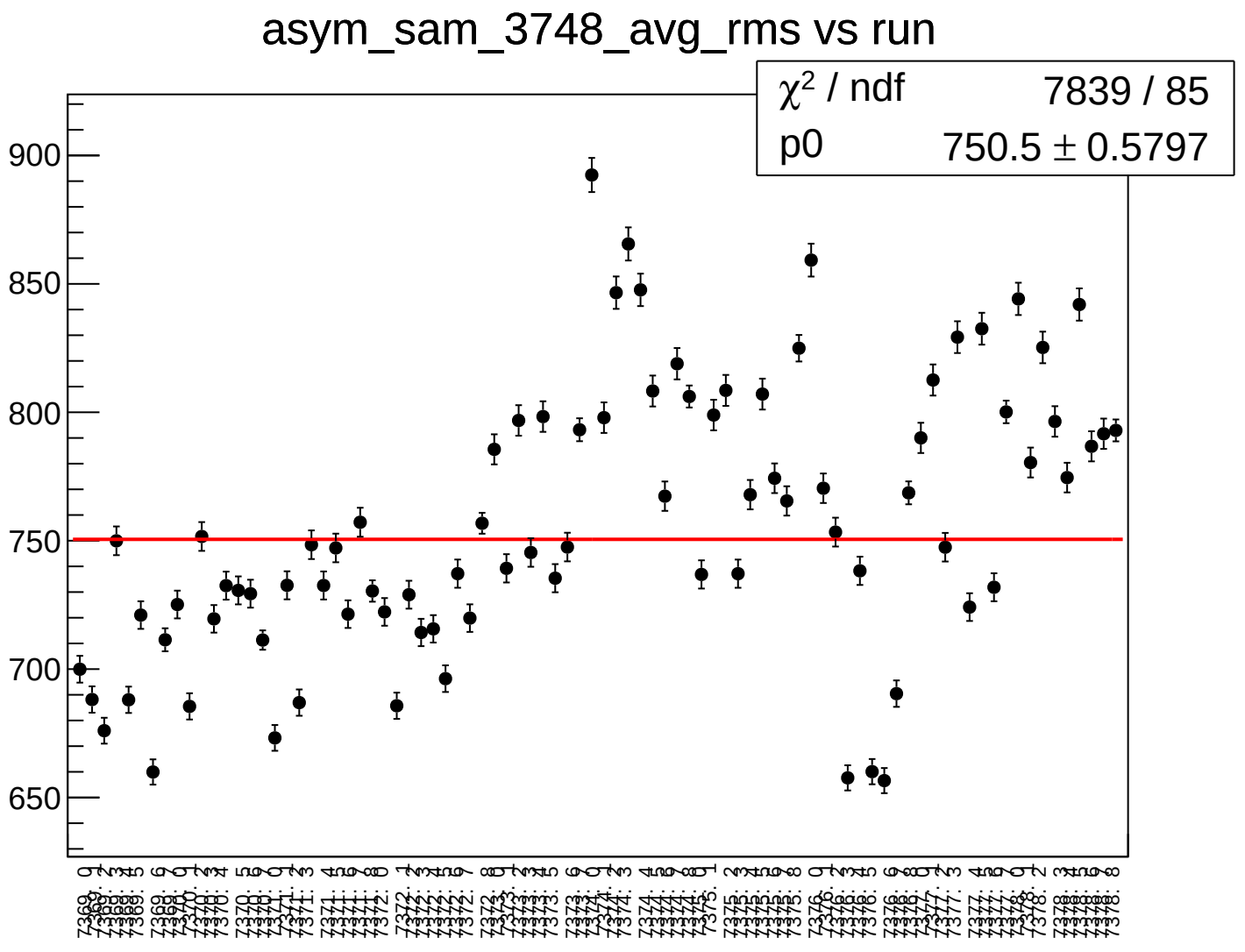

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.4 / 85
p0 447.6 ± 850.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −8.762
Std Dev 0
2
1
0
−1
−2
−3

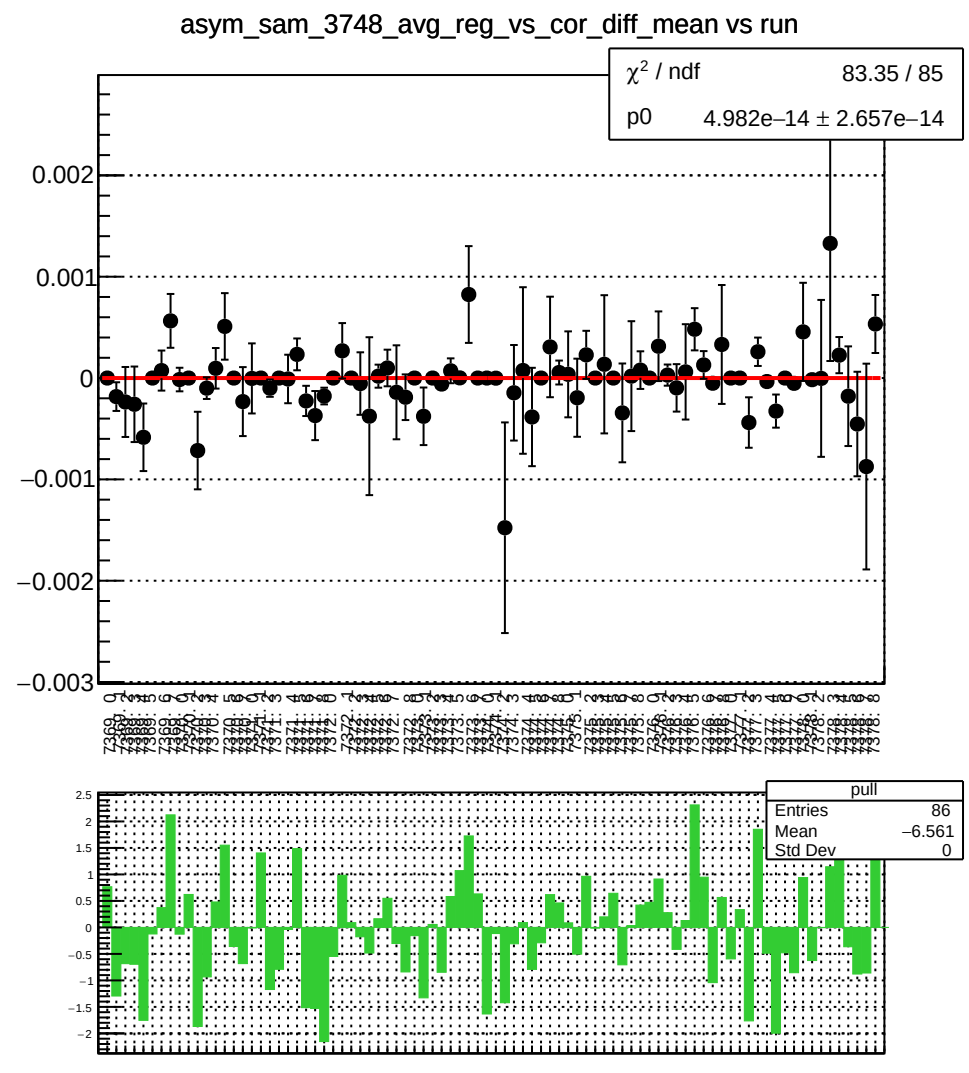

pull1D
Entries 86
Mean −0.01194
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

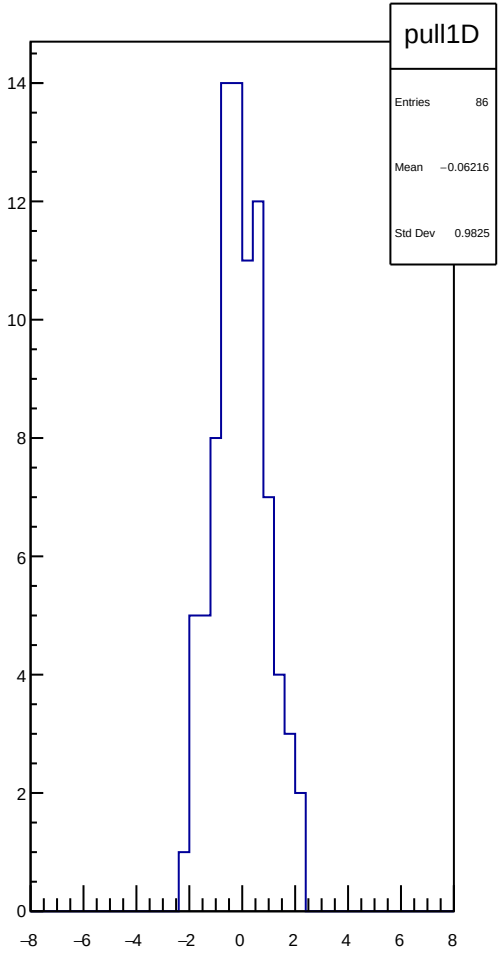

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 4261 / 85
p0 779.6 ± 0.6015
900
850
800
750
700

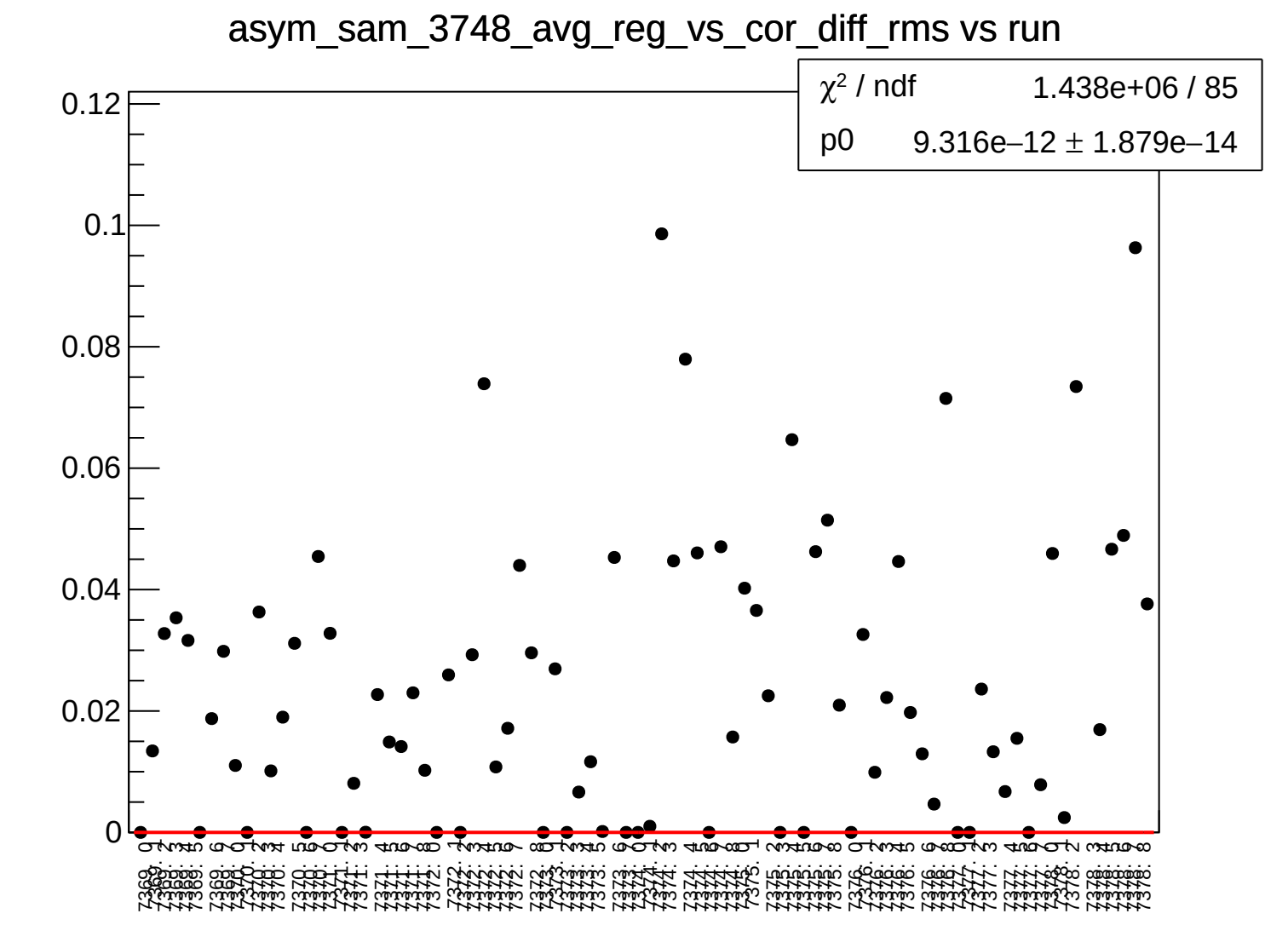

asym_sam_3748_avg_mean vs run
χ² / ndf 81.63 / 85
p0 −105.1± 819.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −149.4
Std Dev 0
2
1
0
−1
−2

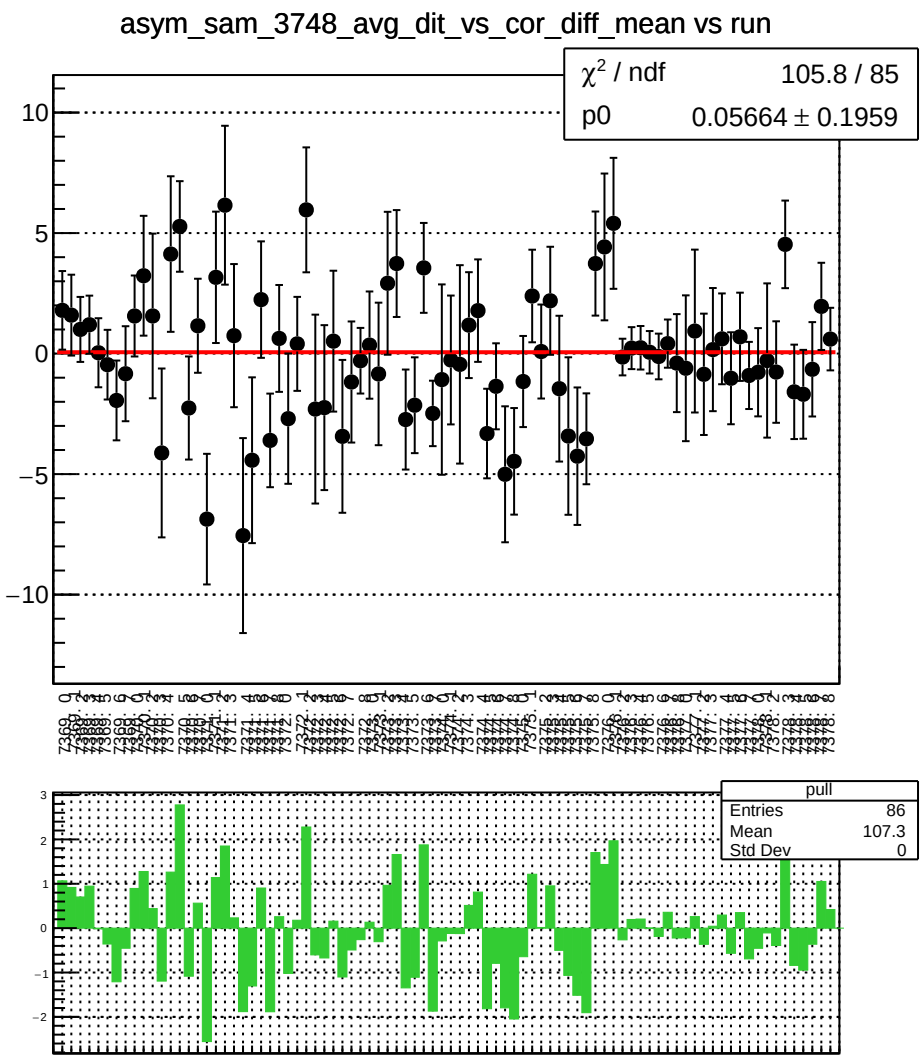

pull1D
Entries 86
Mean 0.006045
Std Dev 0.9743
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

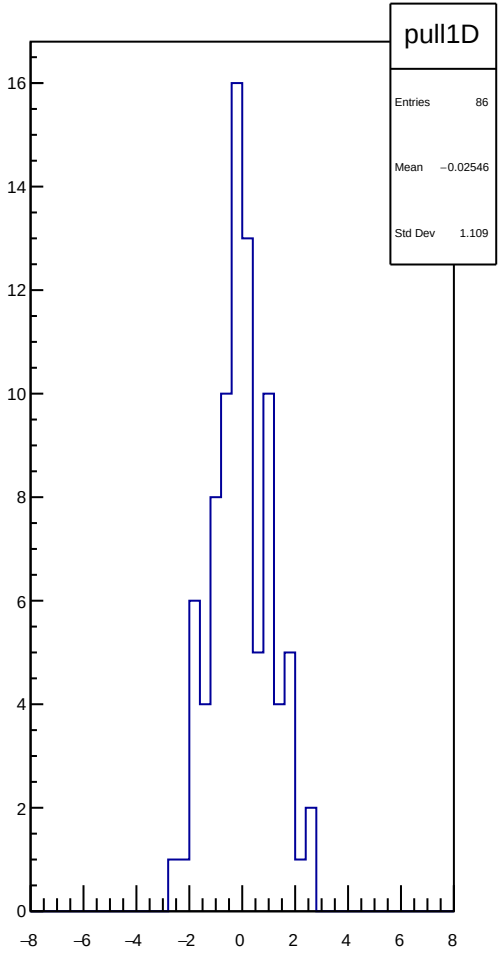

asym_sam_3748_avg_rms vs run
χ^2 / ndf 7839 / 85
p0 750.5 ± 0.5797
900
850
800
750
700
650

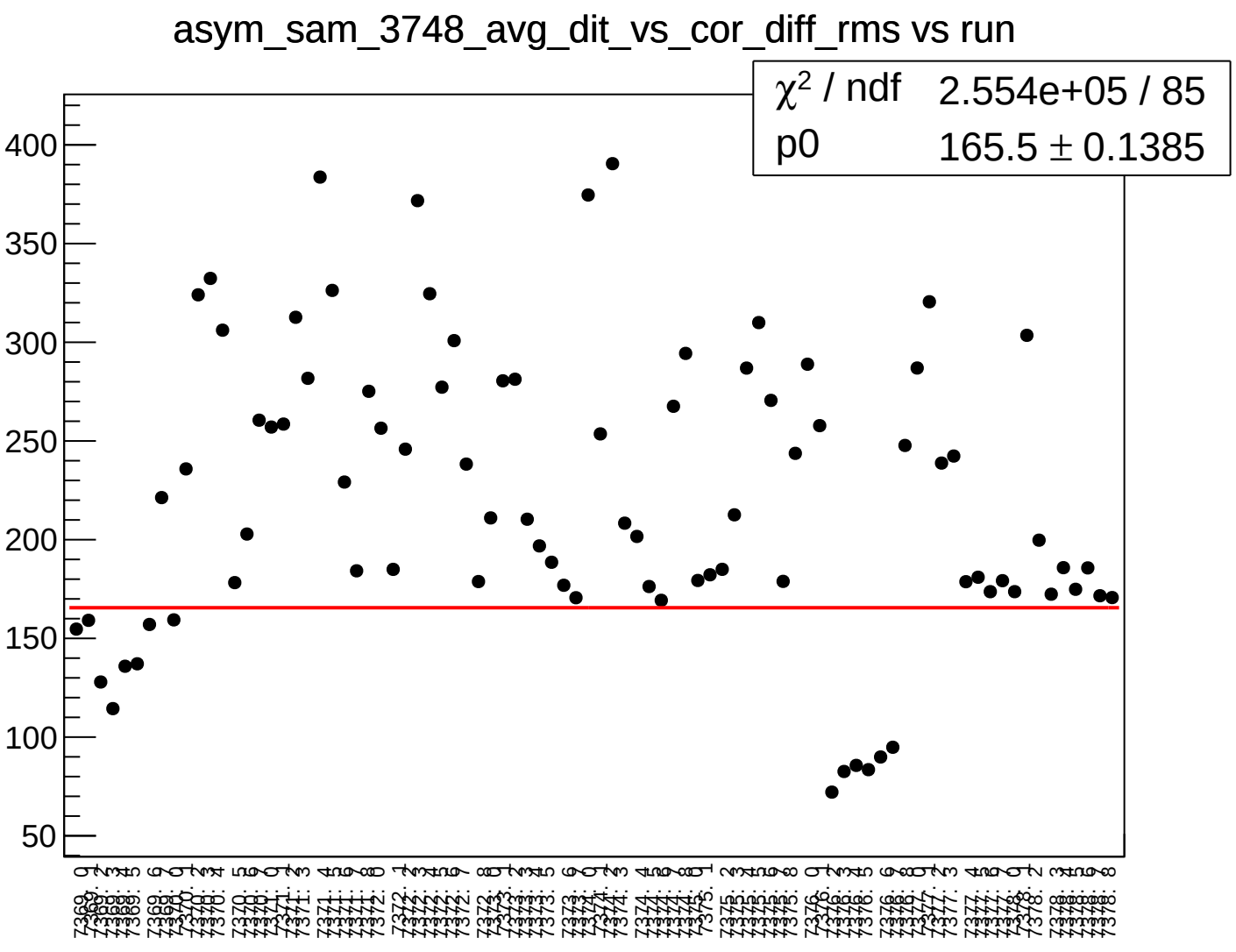

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.35 / 85
p0 4.982e−14 ± 2.657e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 86
Mean −6.561
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

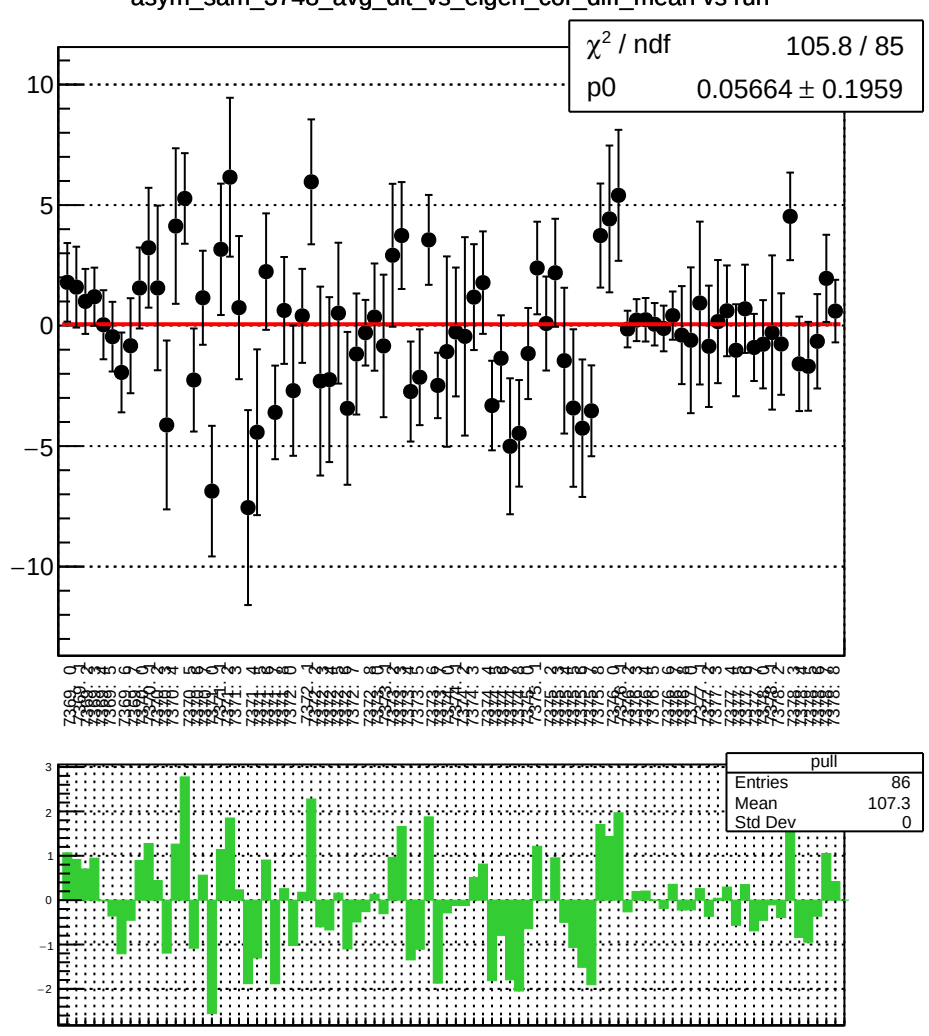

pull1D
Entries 86
Mean −0.06216
Std Dev 0.9825
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

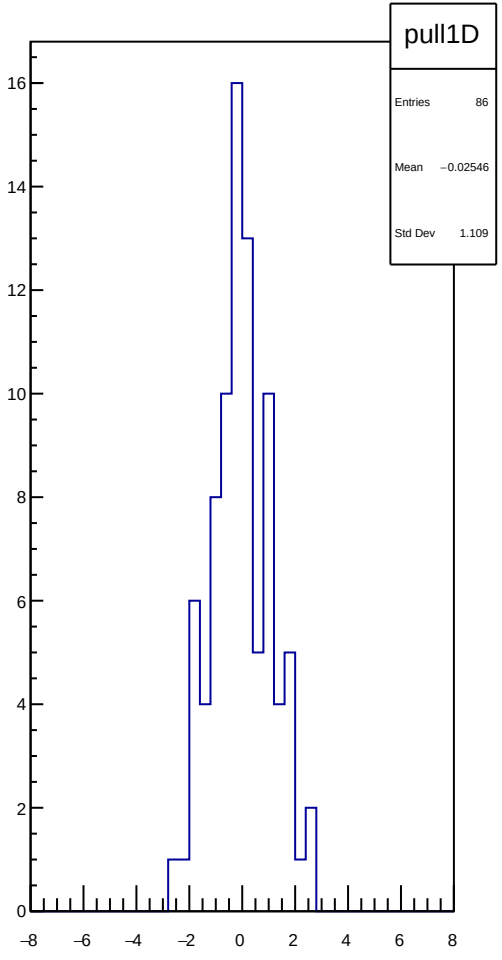

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.438e+06 / 85
p0 9.316e−12 ± 1.879e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

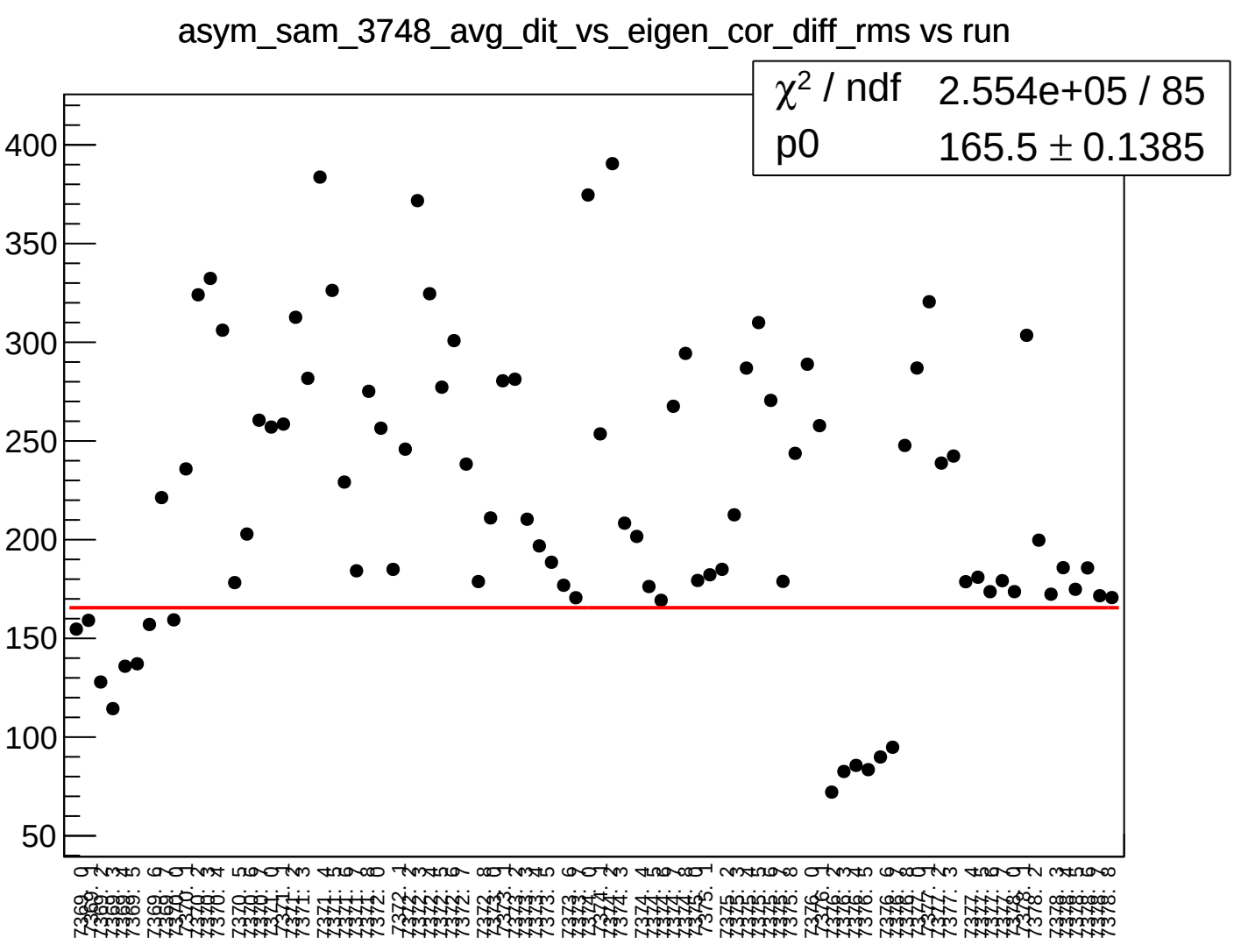

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 0.05664 ± 0.1959
pull
Entries 86
Mean 107.3
Std Dev 0

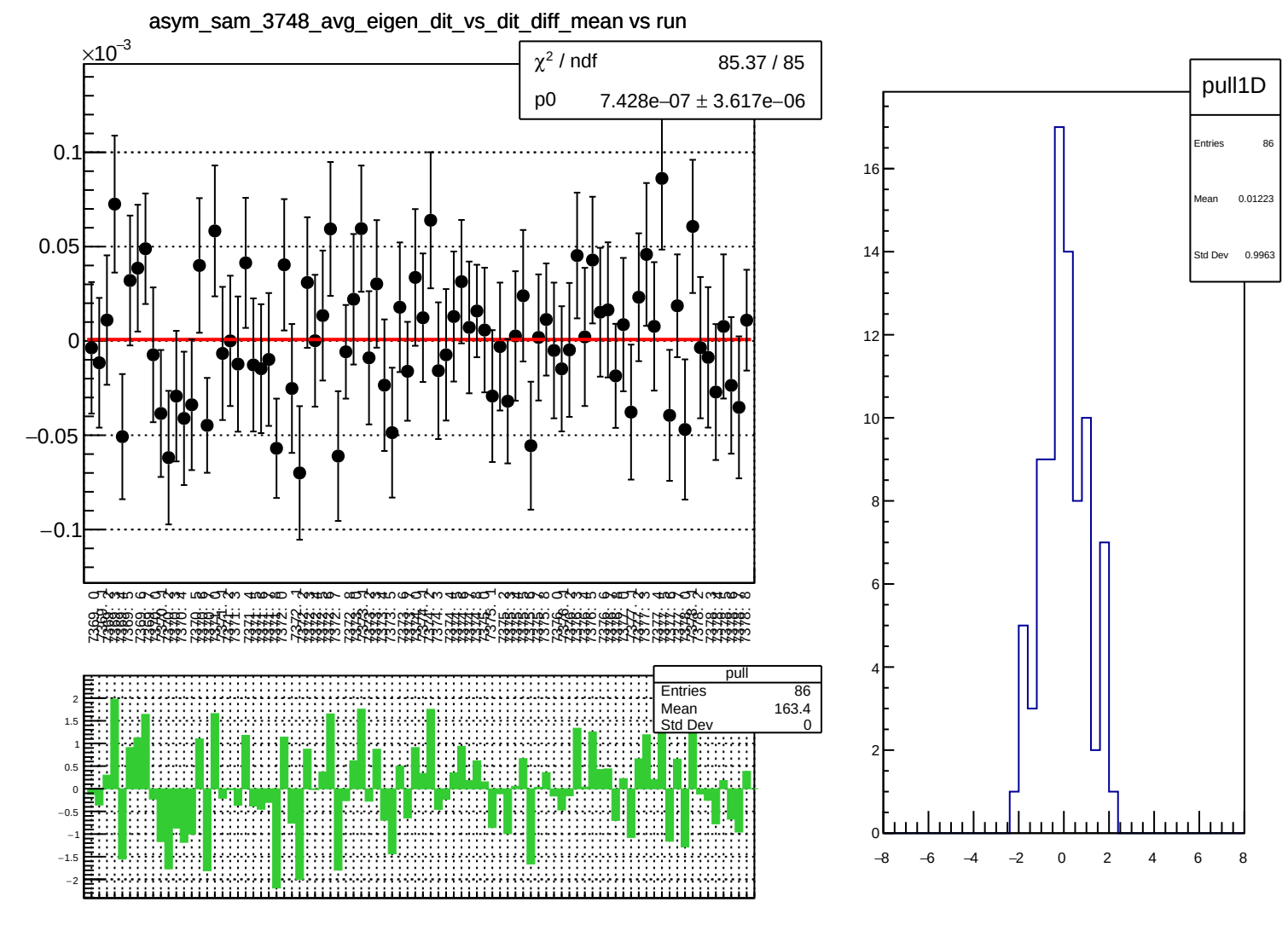

pull1D
Entries 86
Mean −0.02546
Std Dev 1.109

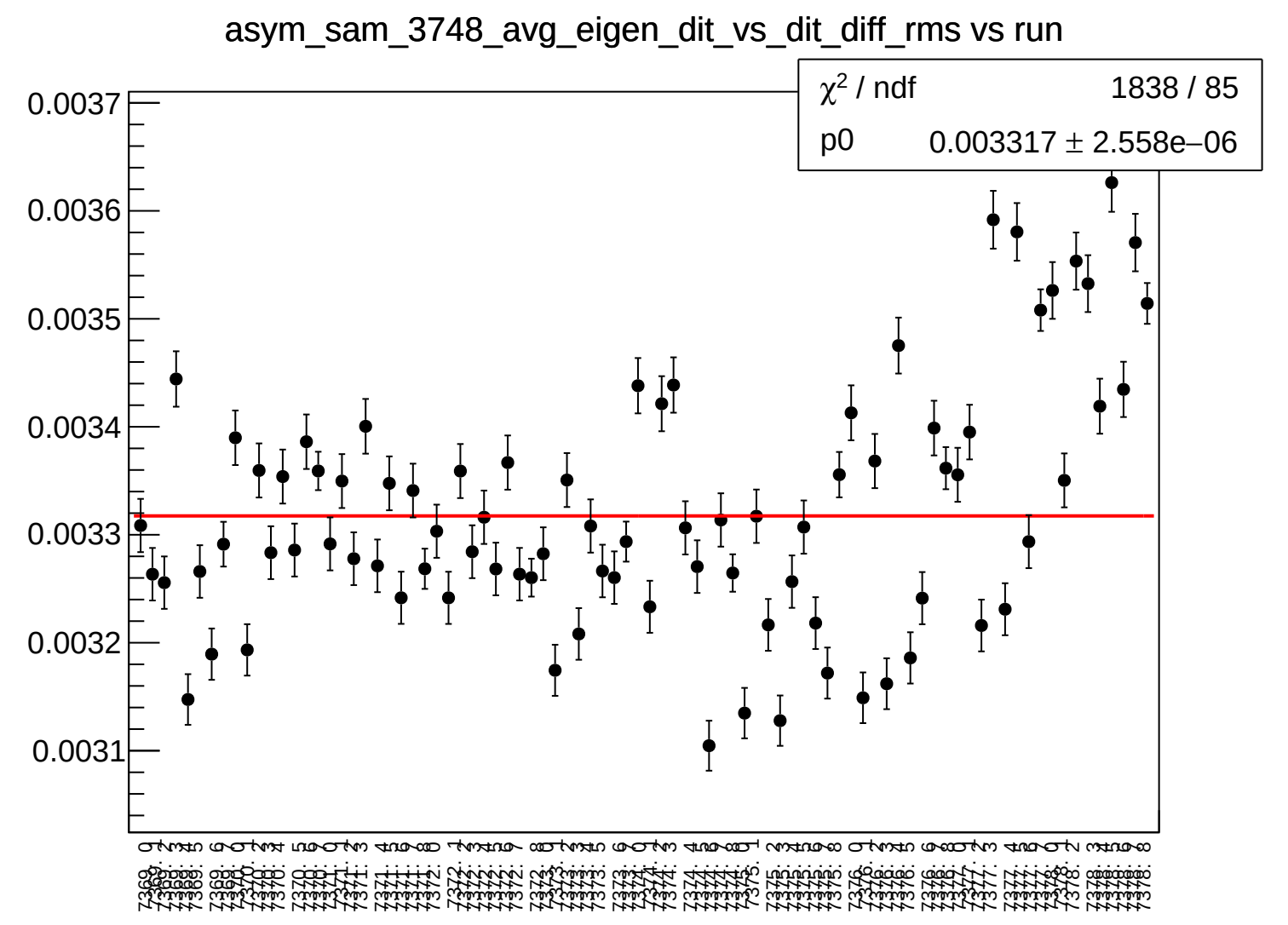

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.554e+05 / 85
p0 165.5 ± 0.1385
400
350
300
250
200
150
100
50

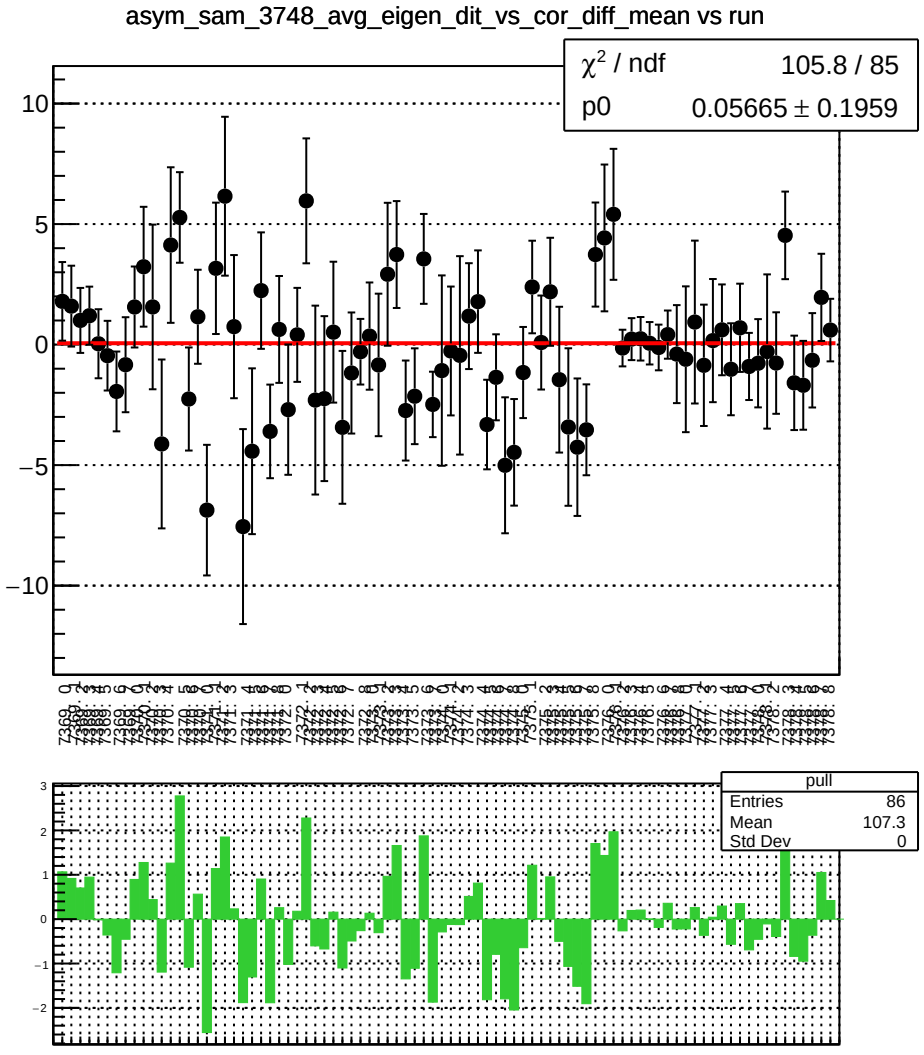

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 0.05664 ± 0.1959
pull
Entries 86
Mean 107.3
Std Dev 0

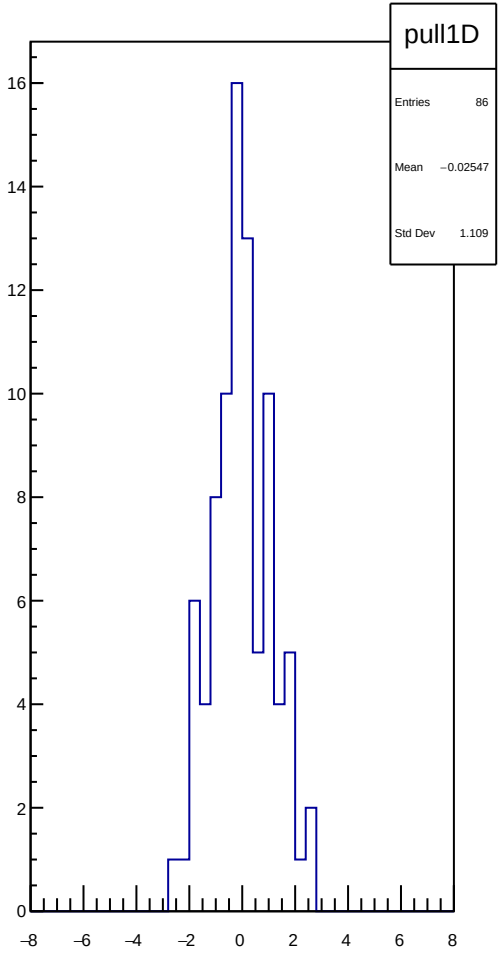

pull1D
Entries 86
Mean −0.02546
Std Dev 1.109

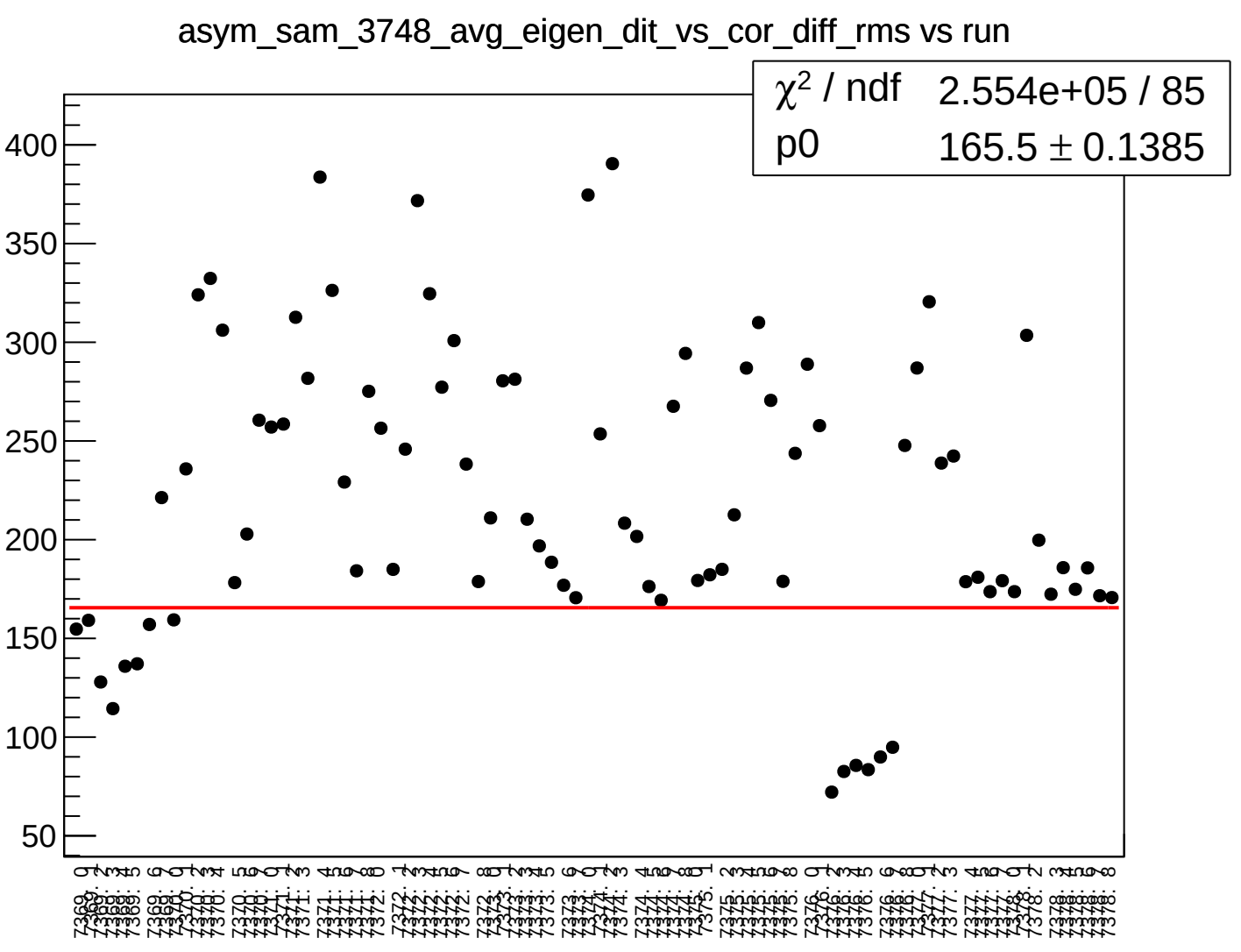

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.554e+05 / 85
p0 165.5 ± 0.1385
400
350
300
250
200
150
100
50

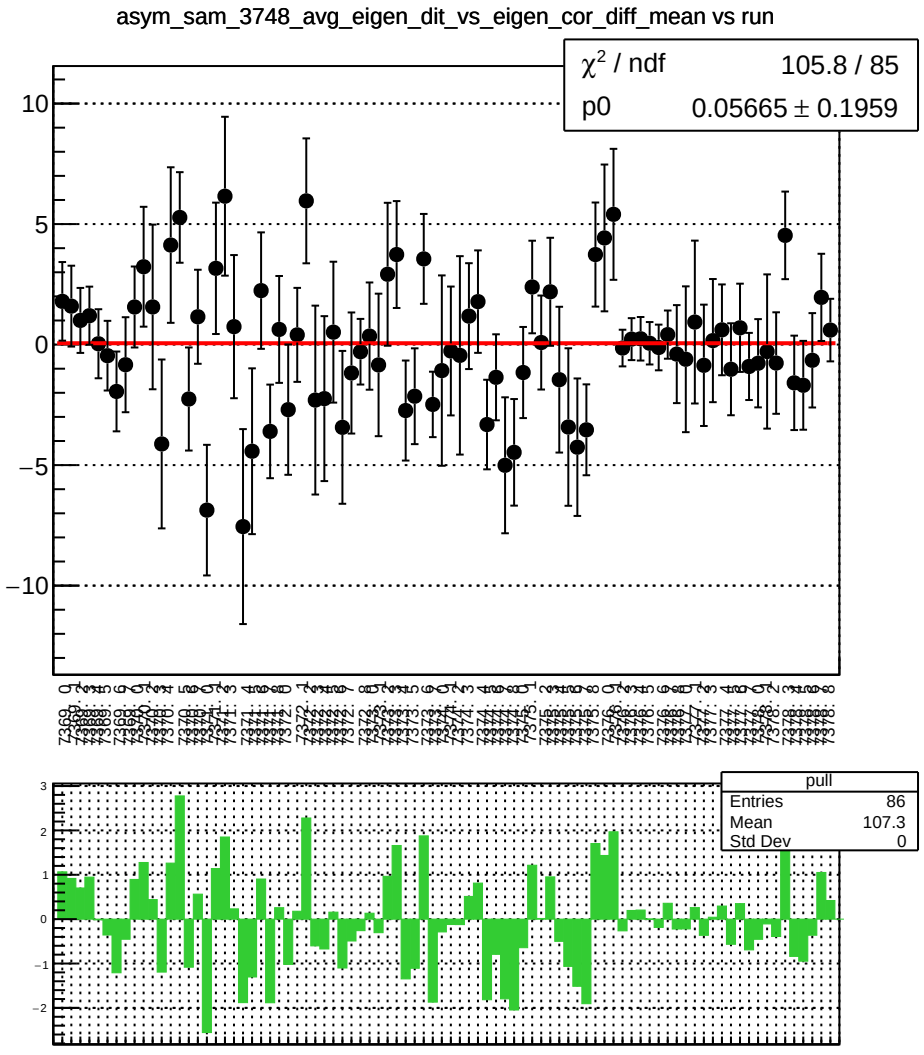

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.37 / 85
p0 7.428e−07 ± 3.617e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 163.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean 0.01223
Std Dev 0.9963
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

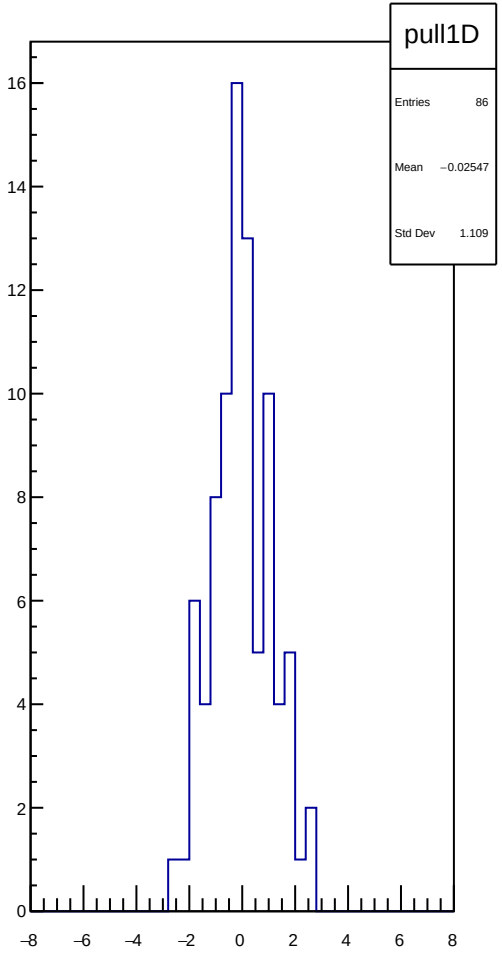

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1838 / 85
p0 0.003317 ± 2.558e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031

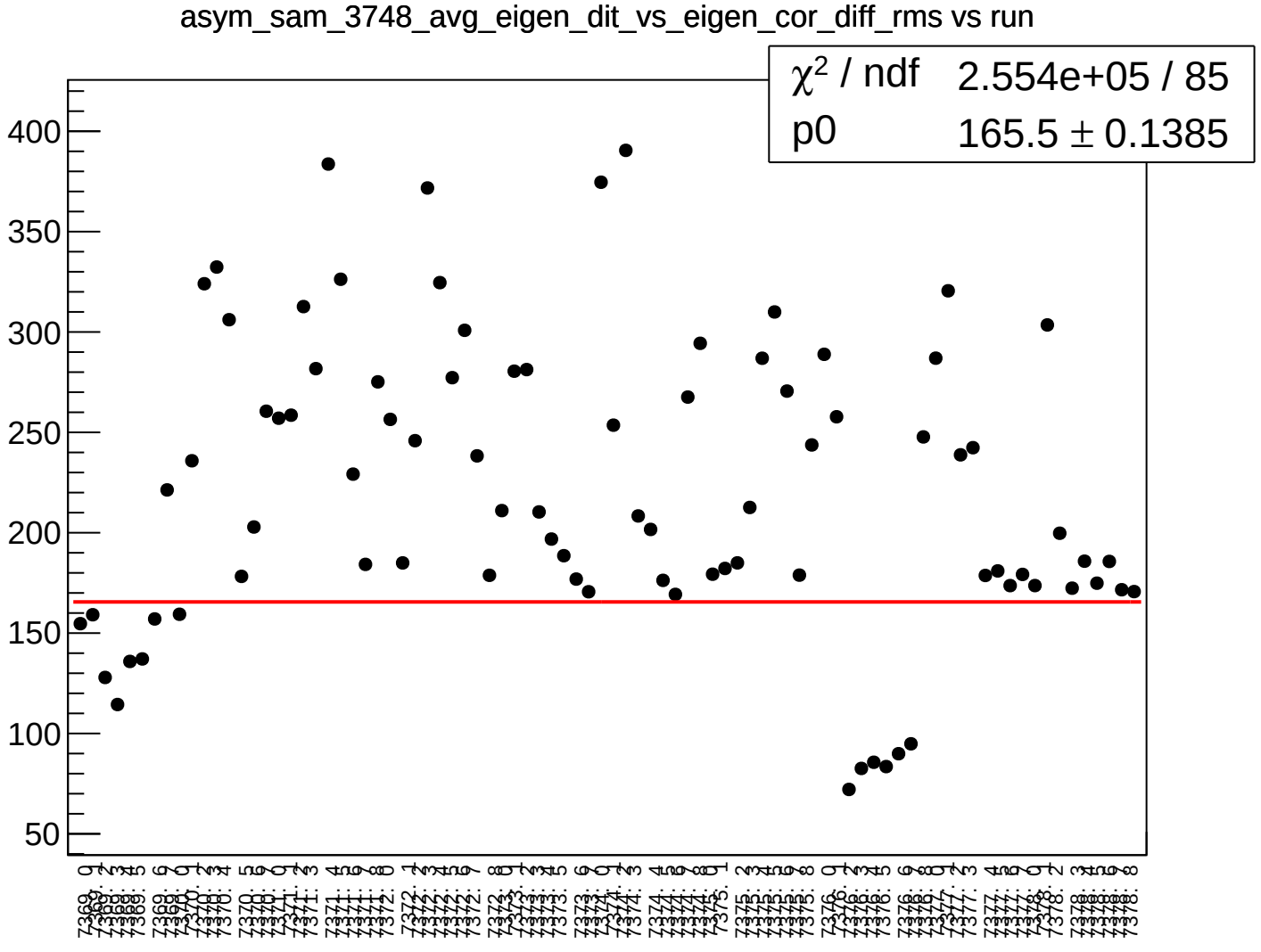

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 0.05665 ± 0.1959
pull
Entries 86
Mean 107.3
Std Dev 0

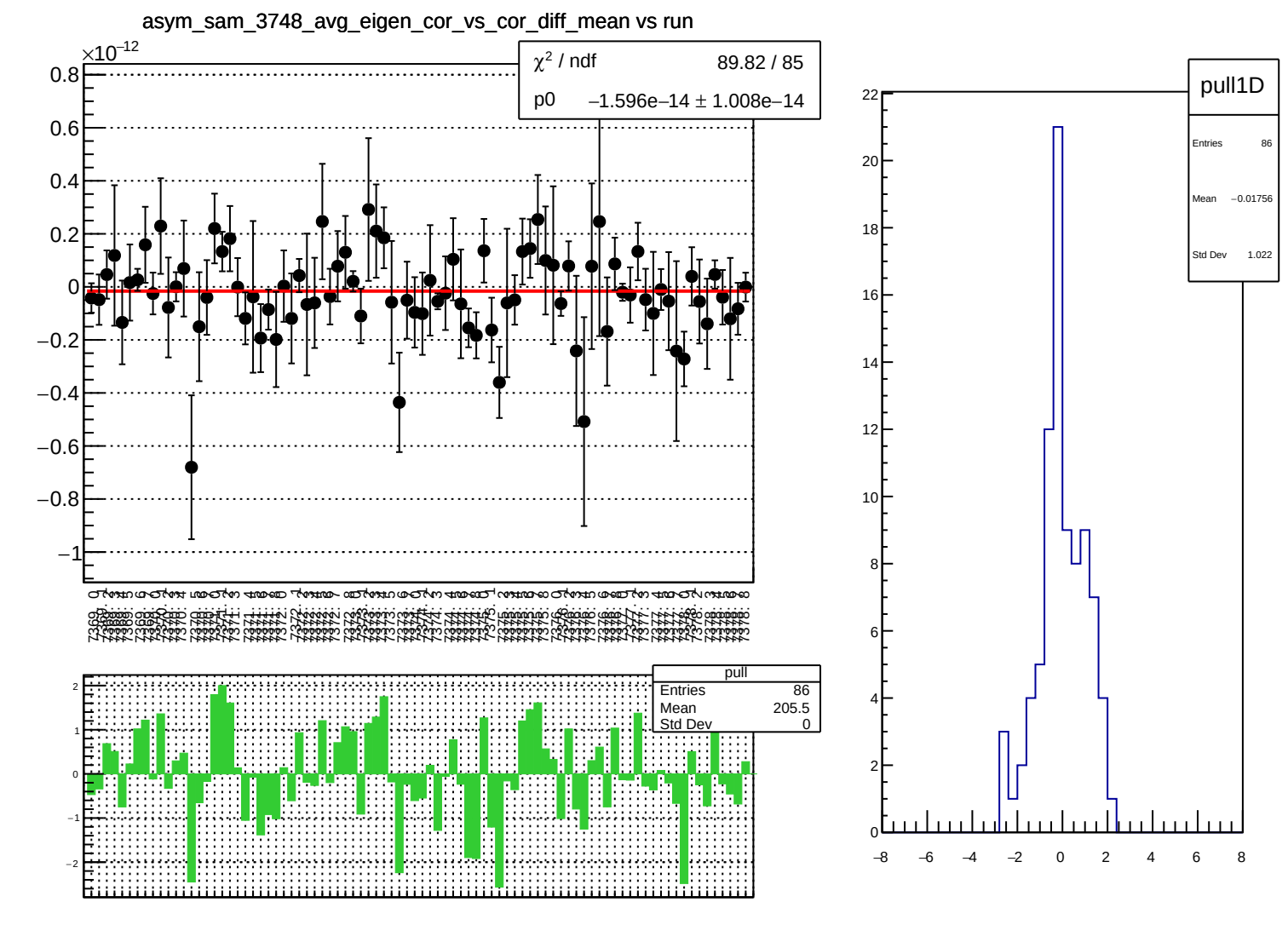

pull1D
Entries 86
Mean −0.02547
Std Dev 1.109

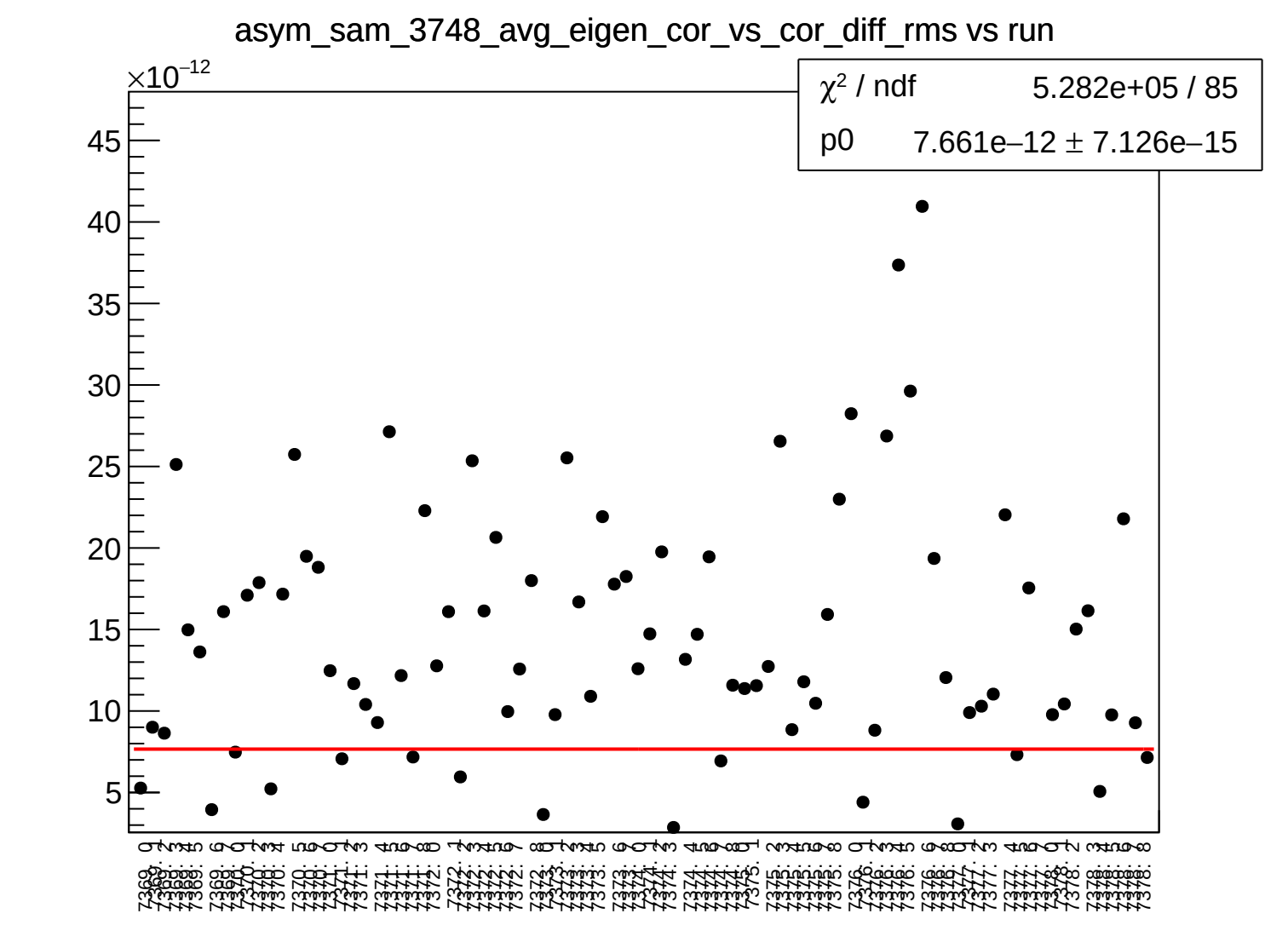

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.554e+05 / 85
p0 165.5 ± 0.1385
400
350
300
250
200
150
100
50

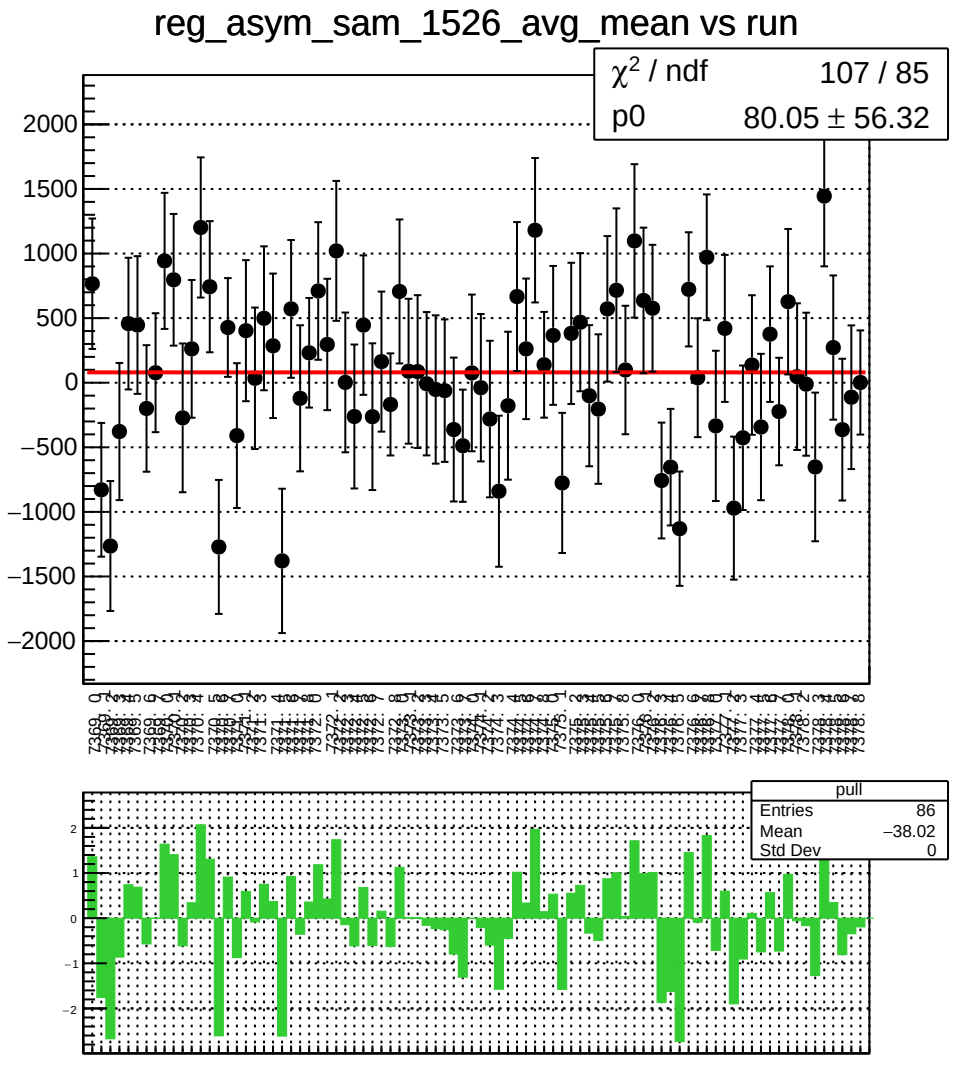

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 0.05665 ± 0.1959
pull
Entries 86
Mean 107.3
Std Dev 0

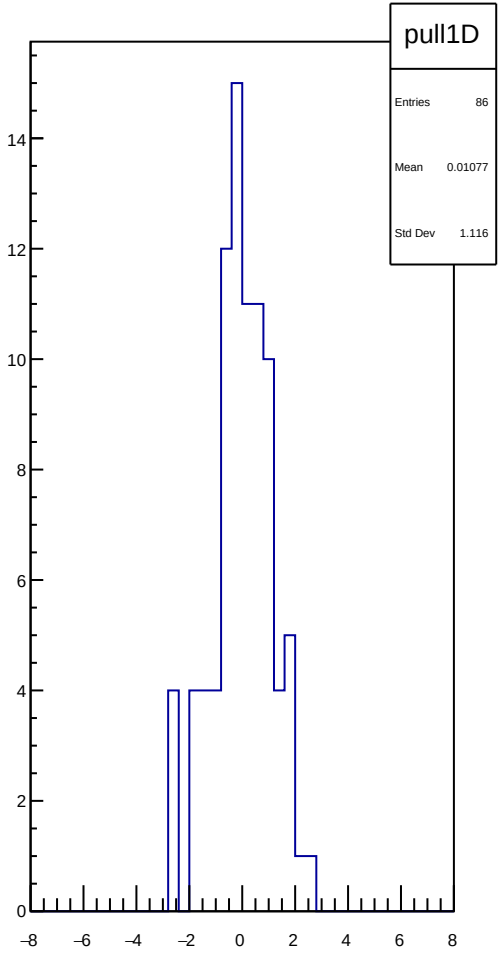

pull1D
Entries 86
Mean −0.02547
Std Dev 1.109

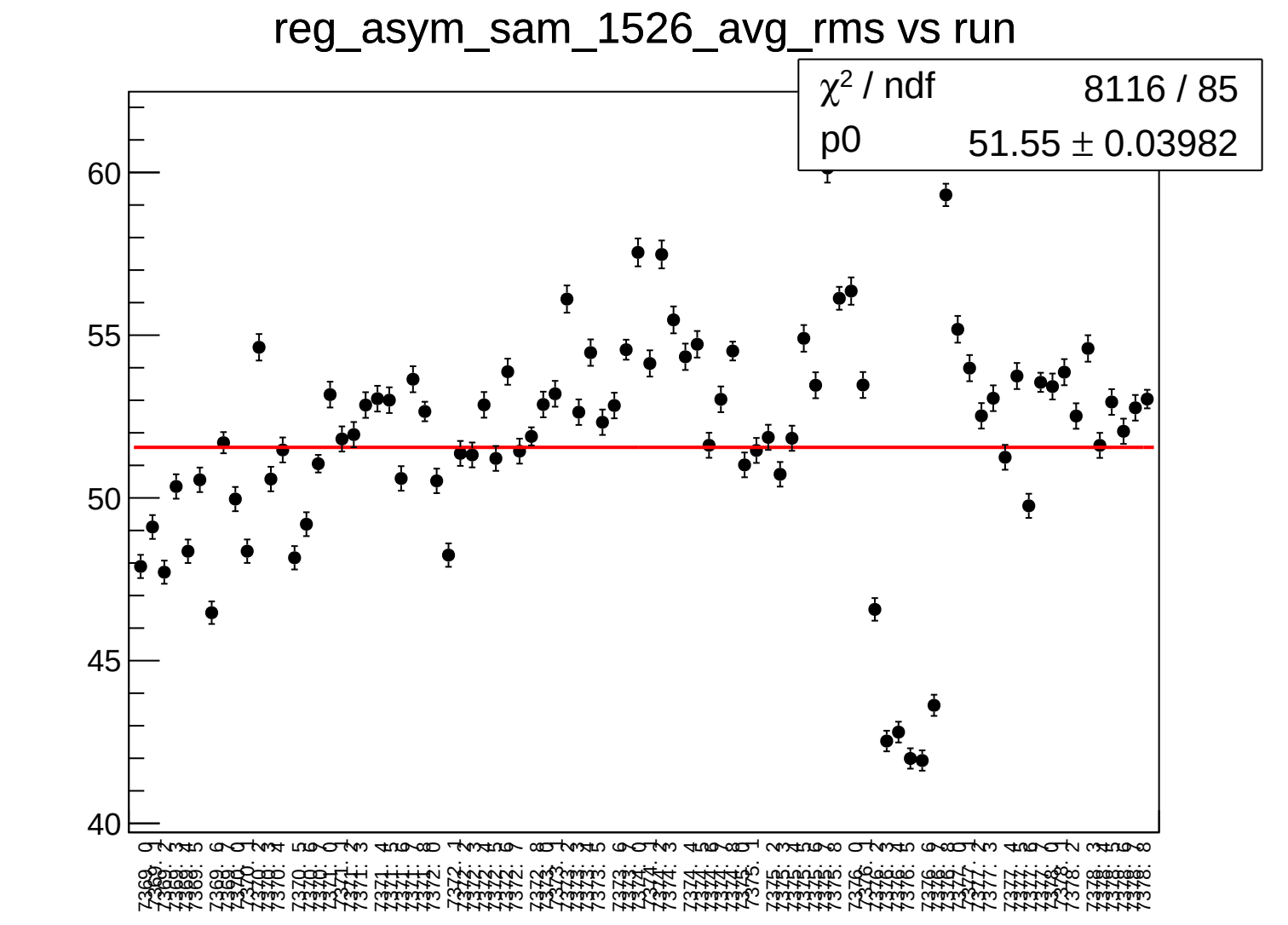

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.554e+05 / 85
p0 165.5 ± 0.1385
400
350
300
250
200
150
100
50

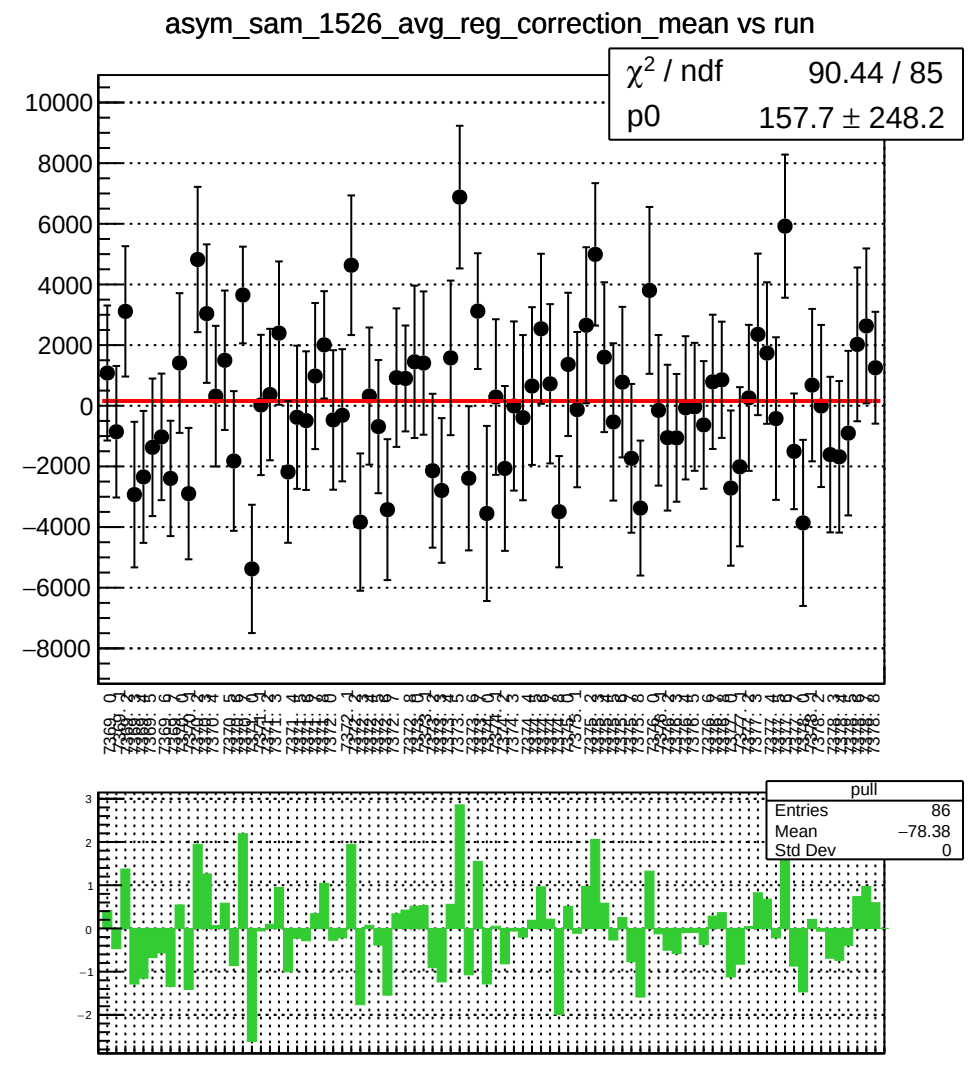

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.82 / 85
p0 −1.596e−14 ± 1.008e−14
pull
Entries 86
Mean 205.5
Std Dev 0
pull1D
Entries 86
Mean −0.01756
Std Dev 1.022

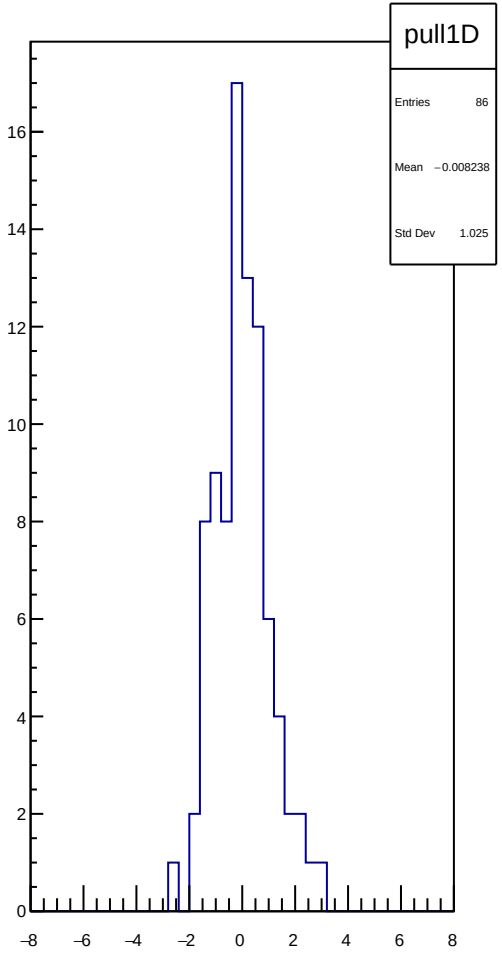

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.282e+05 / 85
p0 7.661e−12 ± 7.126e−15
45
40
35
30
25
20
15
10
5

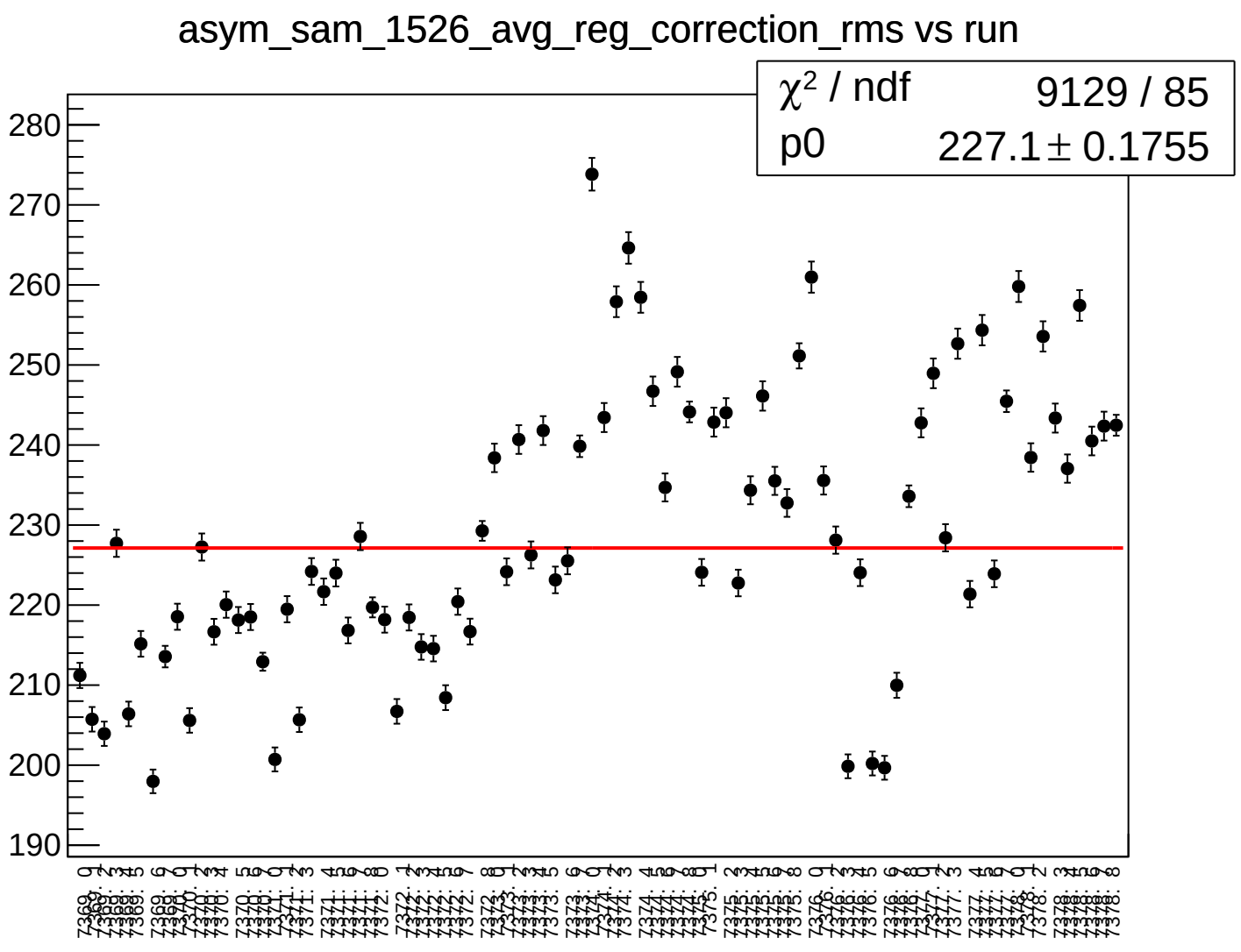

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 107 / 85
p0 80.05 ± 56.32
pull
Entries 86
Mean −38.02
Std Dev 0

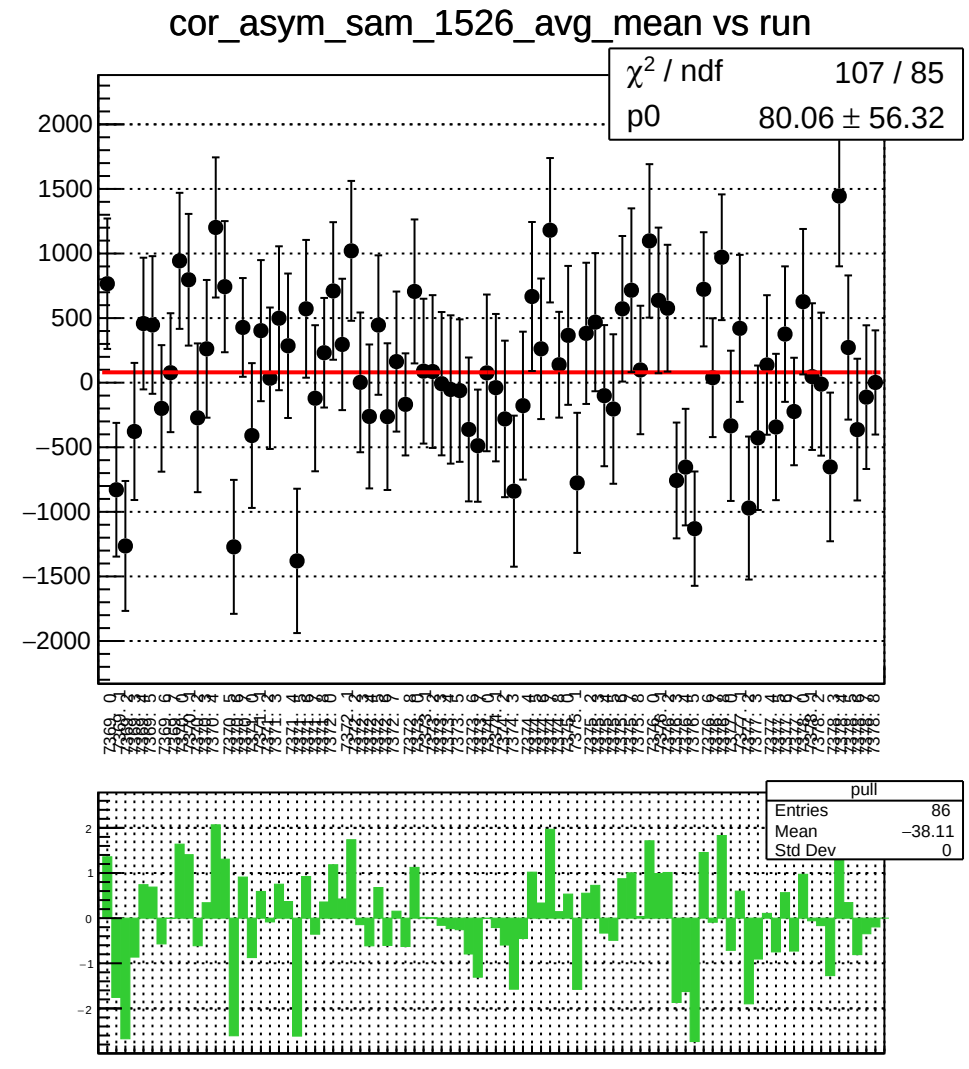

pull1D
Entries 86
Mean 0.01077
Std Dev 1.116

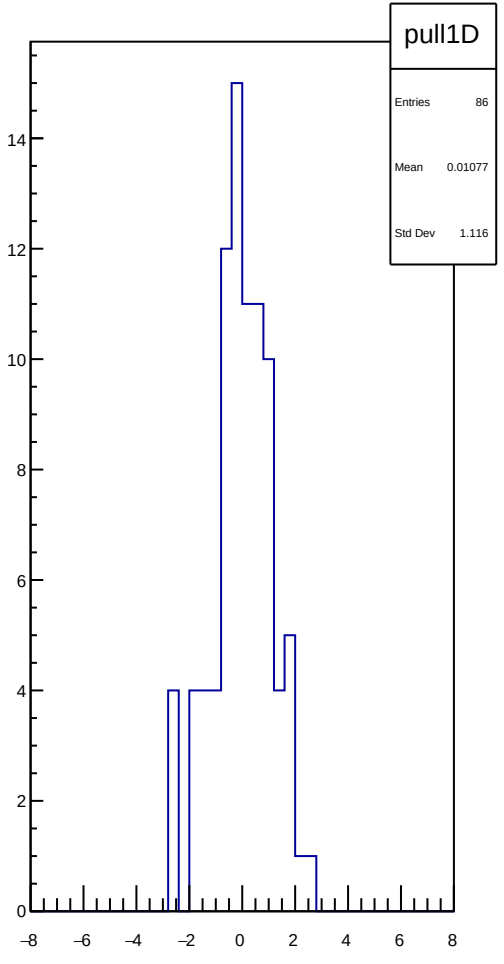

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 8116 / 85
p0 51.55 ± 0.03982
60
55
50
45
40

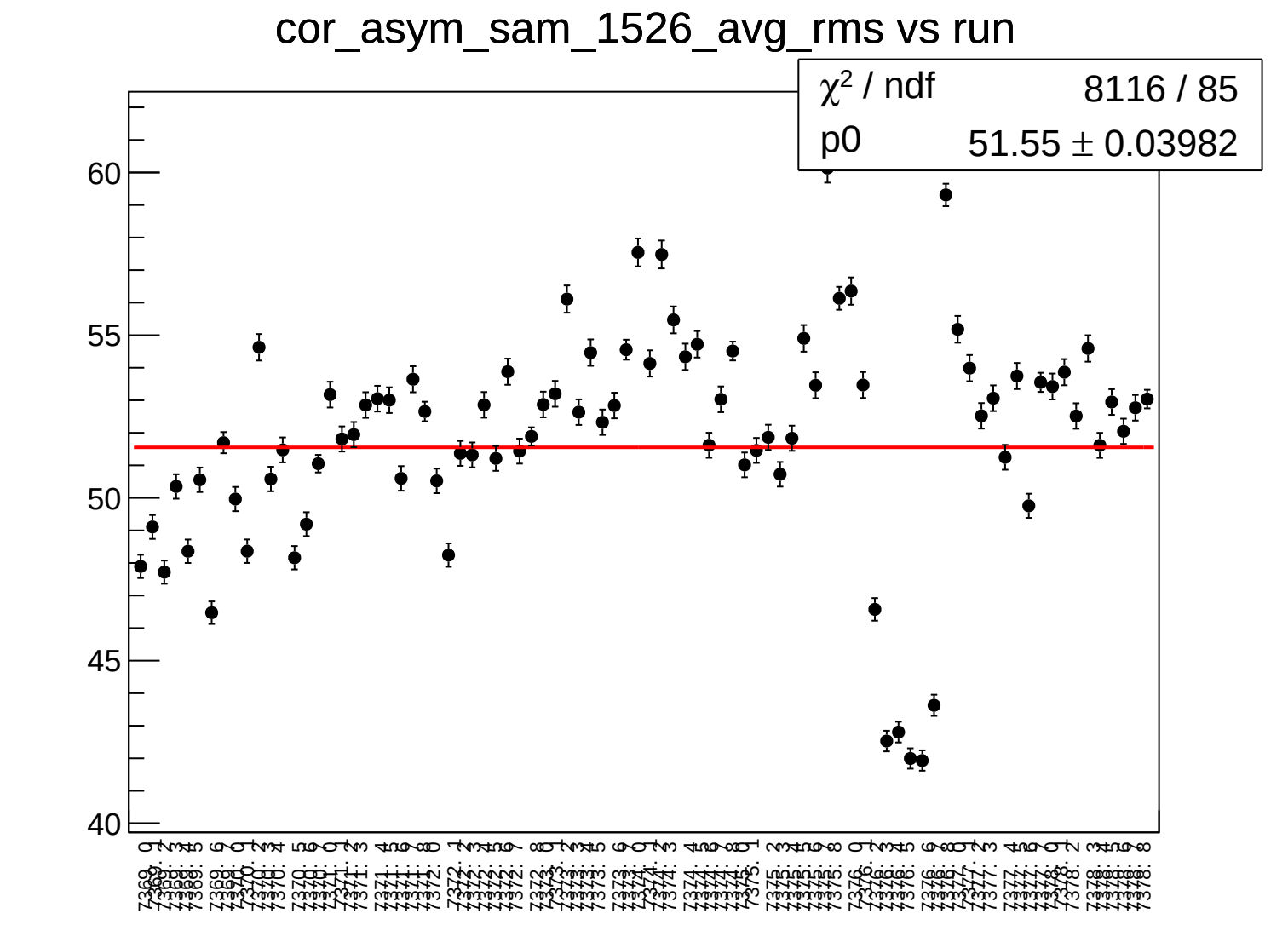

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 90.44 / 85
p0 157.7 ± 248.2
pull
Entries 86
Mean −78.38
Std Dev 0

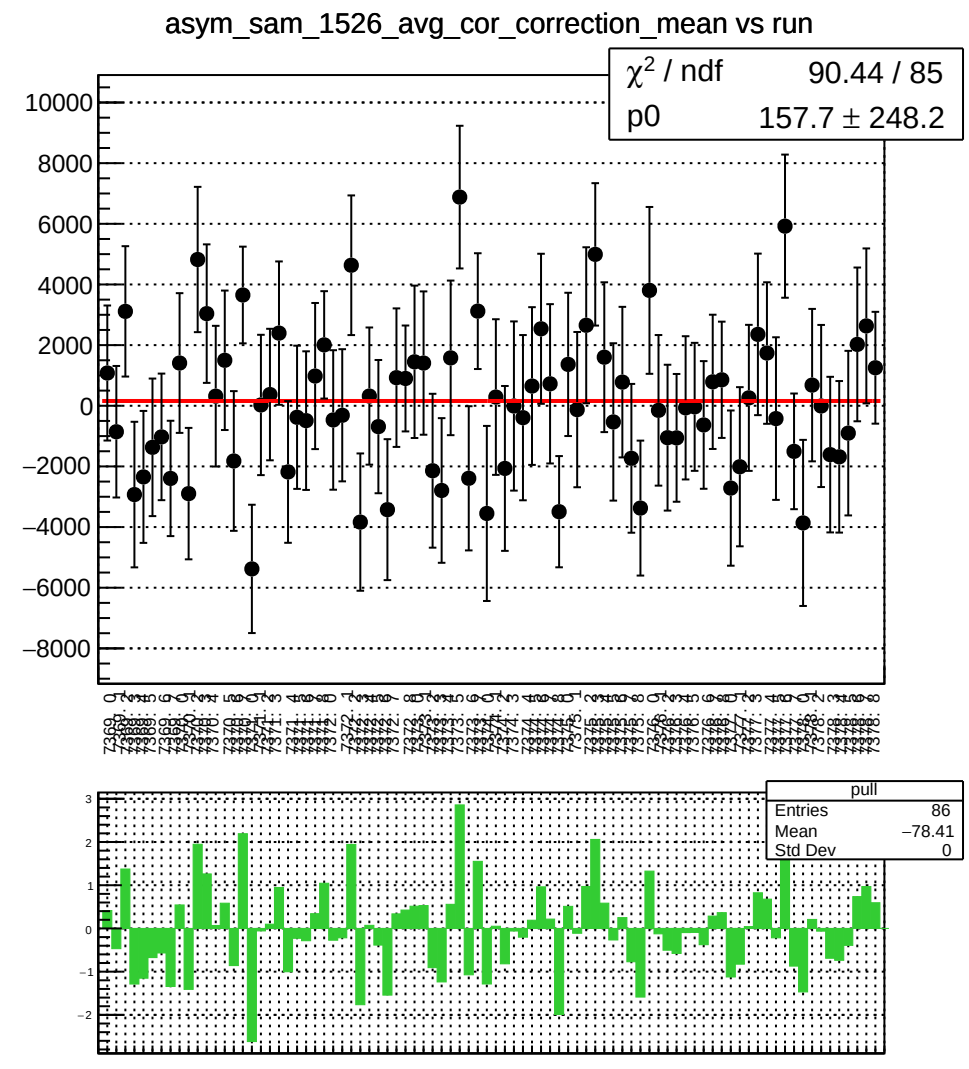

pull1D
Entries 86
Mean −0.008238
Std Dev 1.025

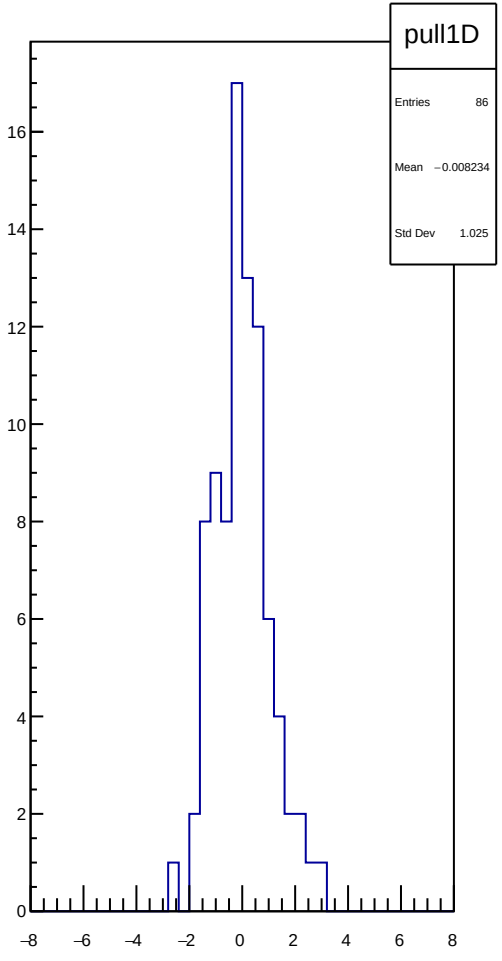

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 9129 / 85
p0 227.1 ± 0.1755
280
270
260
250
240
230
220
210
200
190

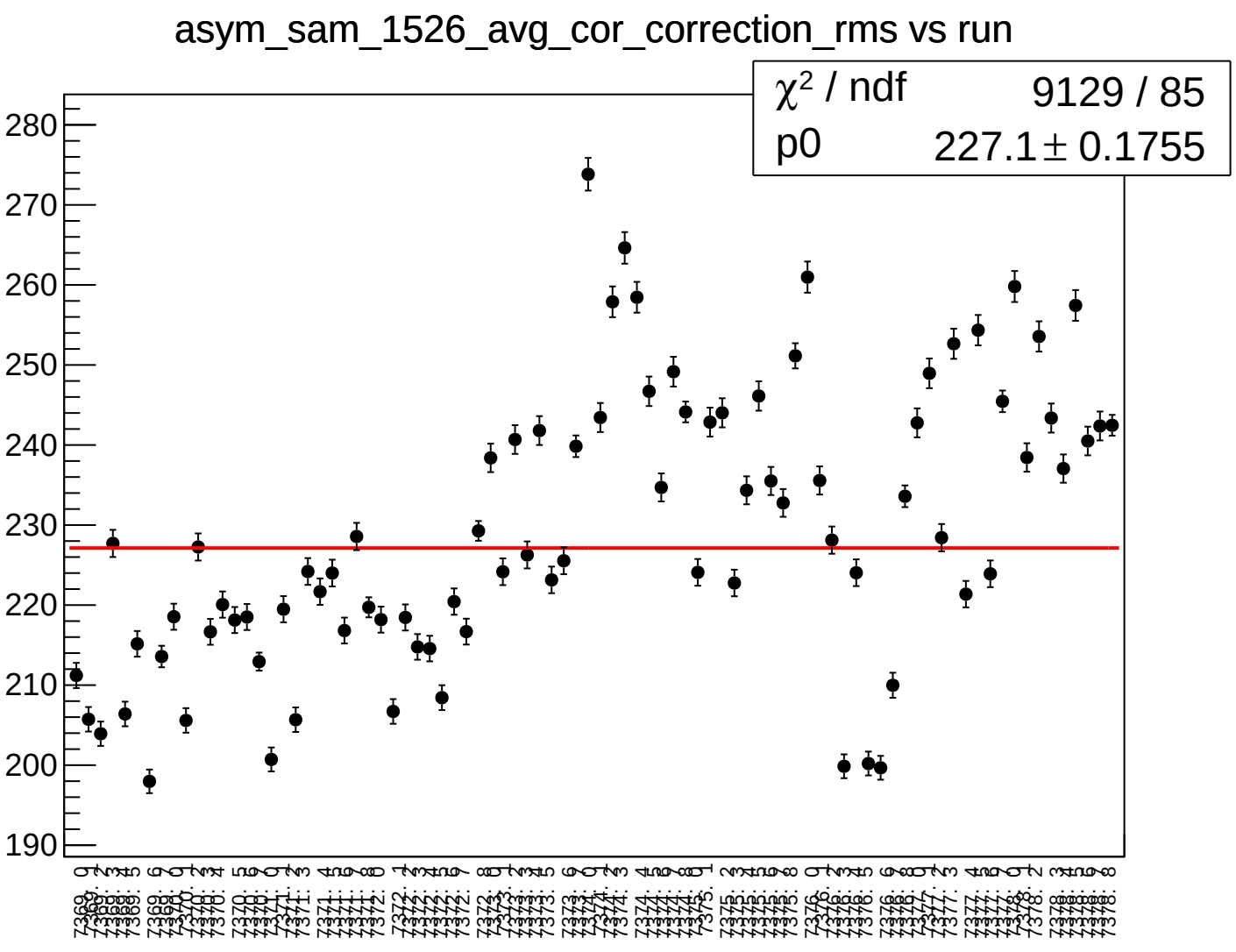

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 107 / 85
p0 80.06 ± 56.32
pull
Entries 86
Mean −38.11
Std Dev 0

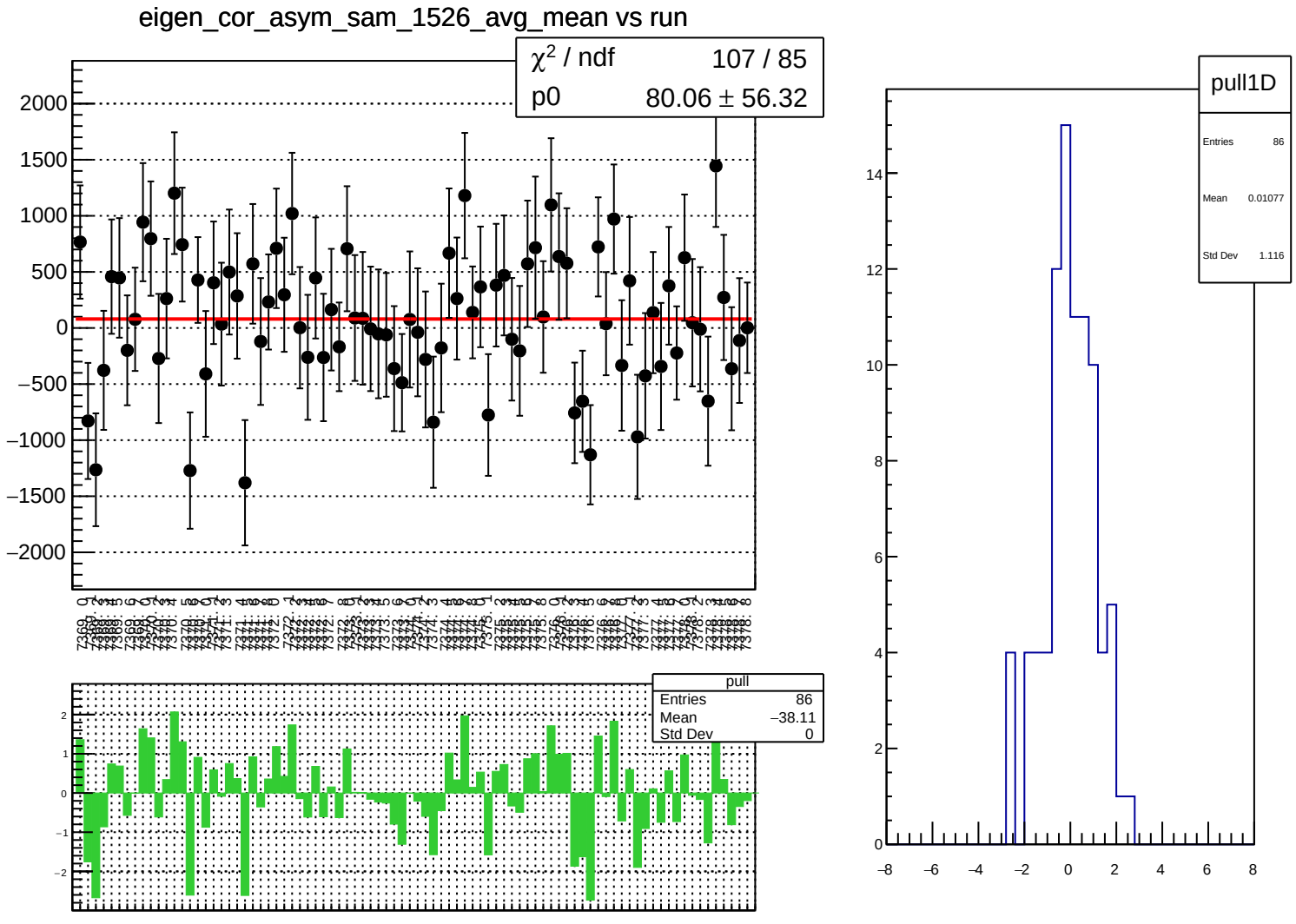

pull1D
Entries 86
Mean 0.01077
Std Dev 1.116

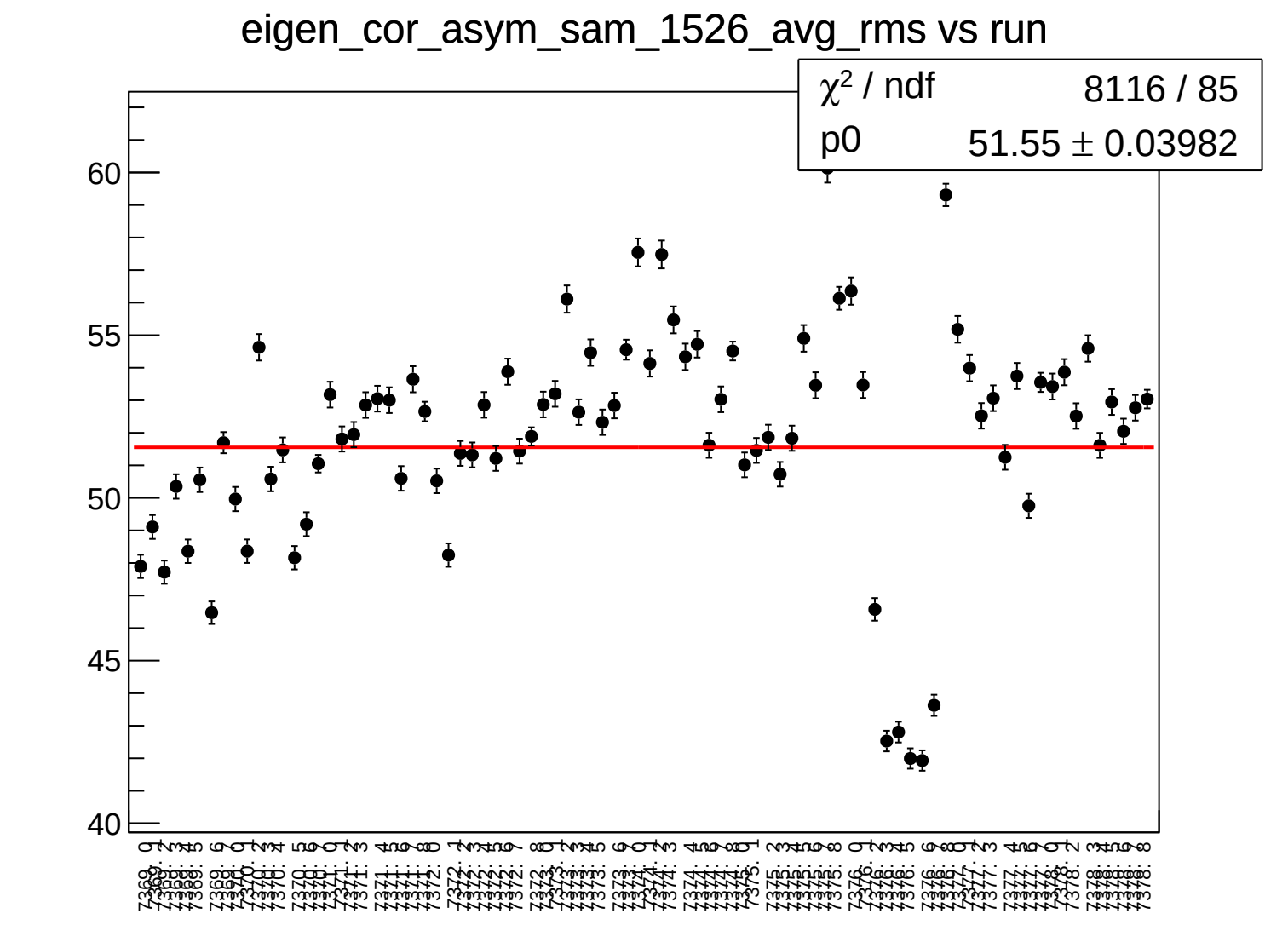

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 8116 / 85
p0 51.55 ± 0.03982
60
55
50
45
40

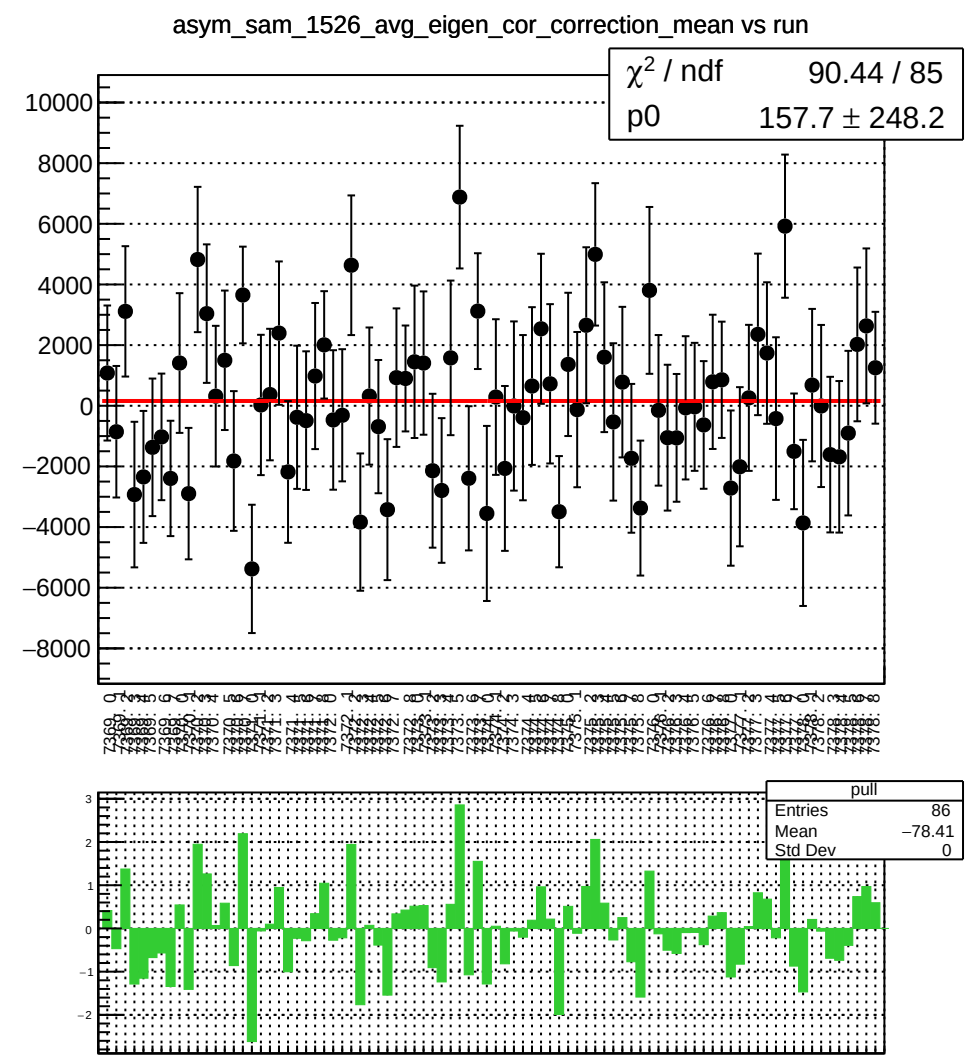

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 90.44 / 85
p0 157.7 ± 248.2
pull
Entries 86
Mean −78.41
Std Dev 0

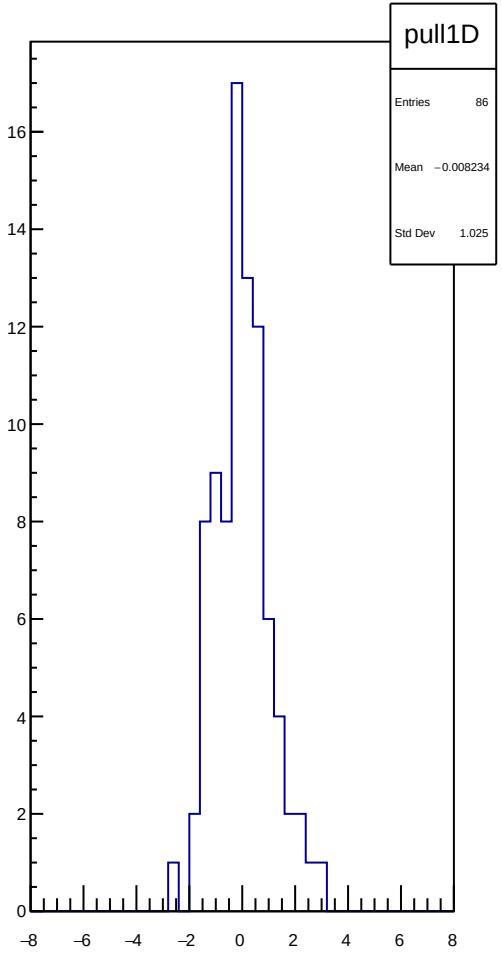

pull1D
Entries 86
Mean −0.008234
Std Dev 1.025

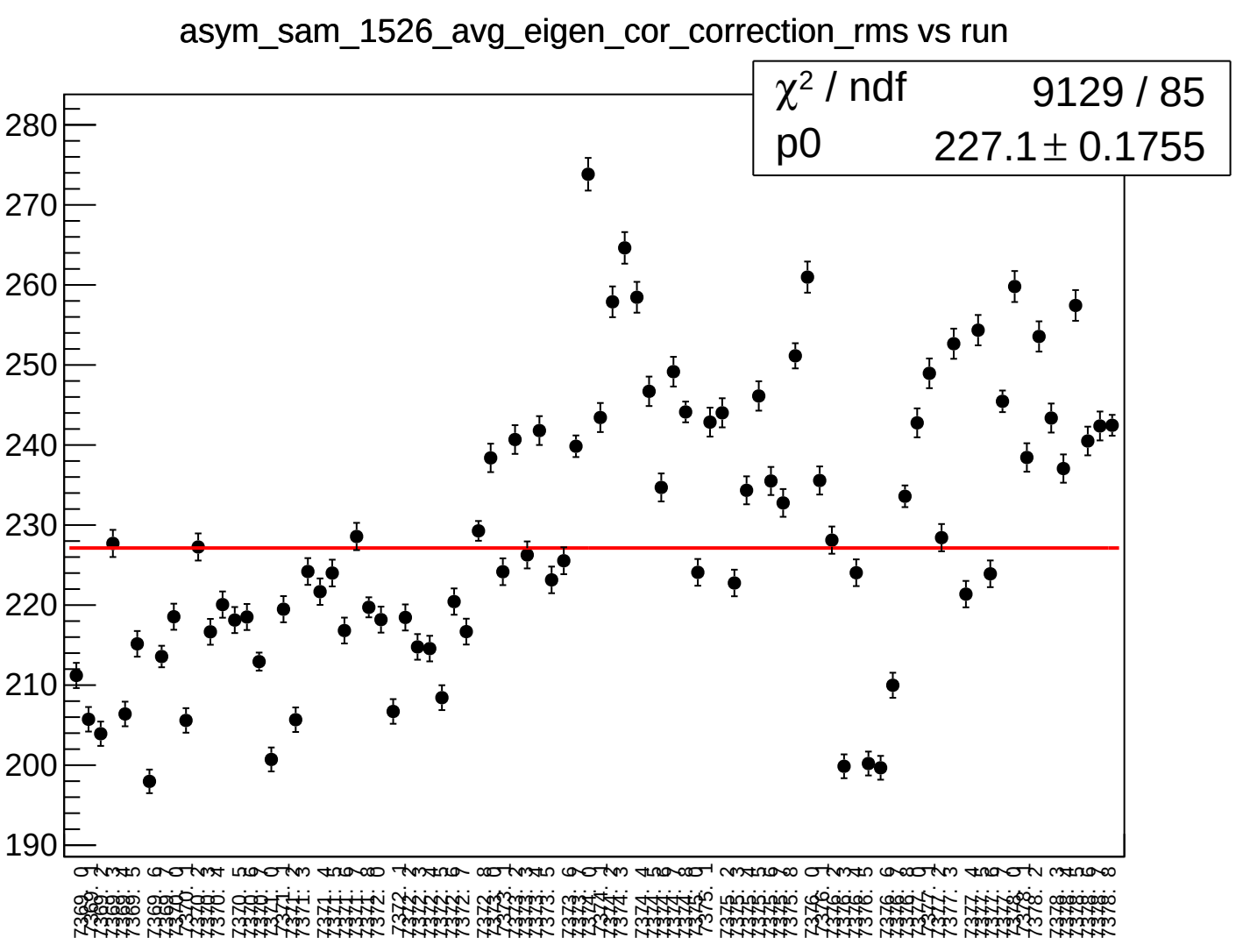

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 9129 / 85
p0 227.1 ± 0.1755
280
270
260
250
240
230
220
210
200
190

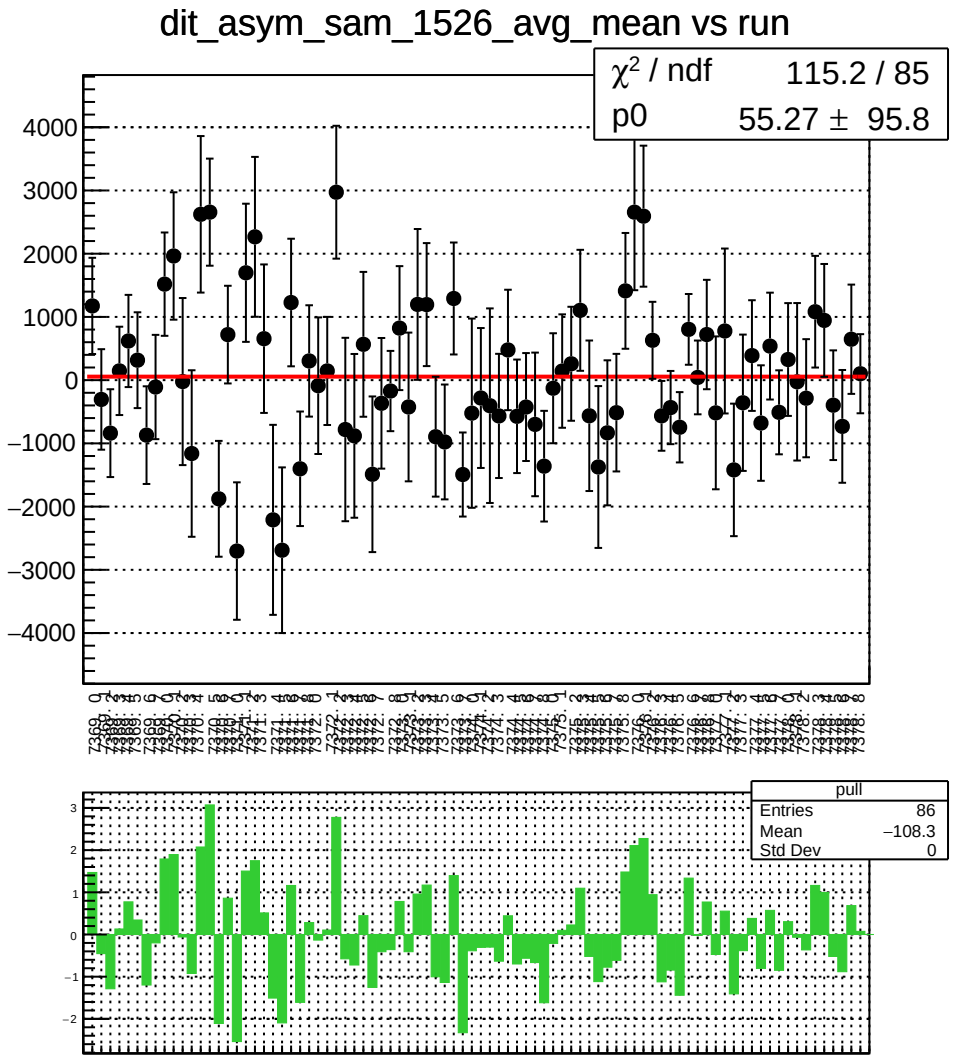

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 107 / 85
p0 80.06 ± 56.32
pull
Entries 86
Mean −38.11
Std Dev 0
pull1D
Entries 86
Mean 0.01077
Std Dev 1.116

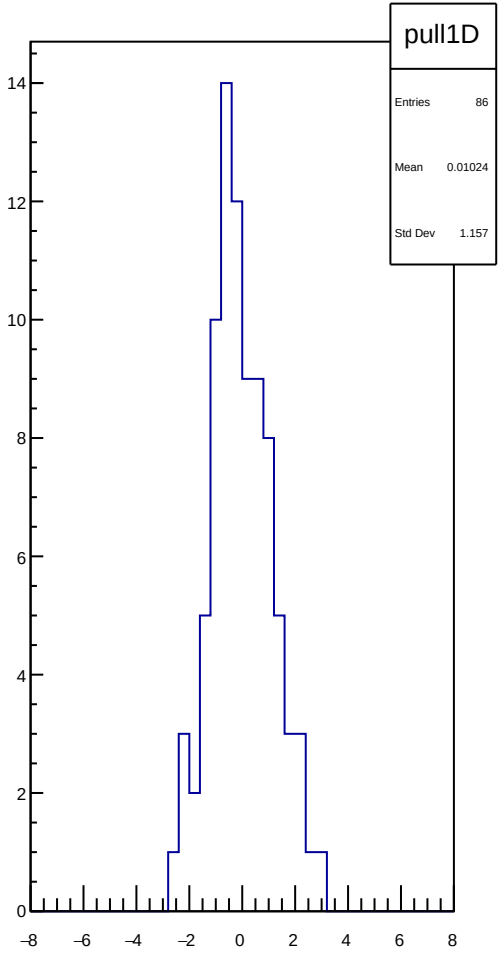

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 8116 / 85
p0 51.55 ± 0.03982
60
55
50
45
40

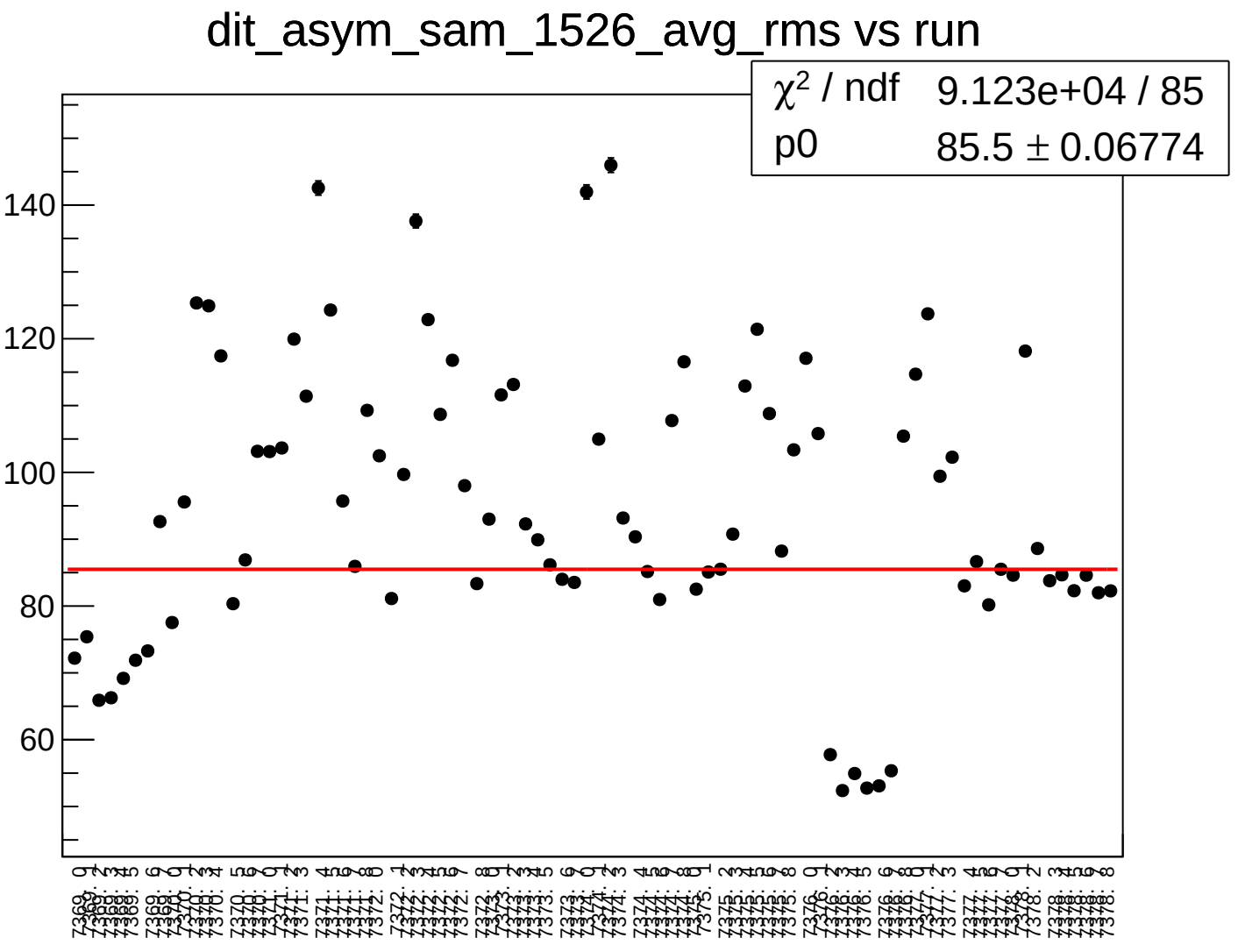

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.44 / 85
p0 157.7 ± 248.2
pull
Entries 86
Mean −78.41
Std Dev 0

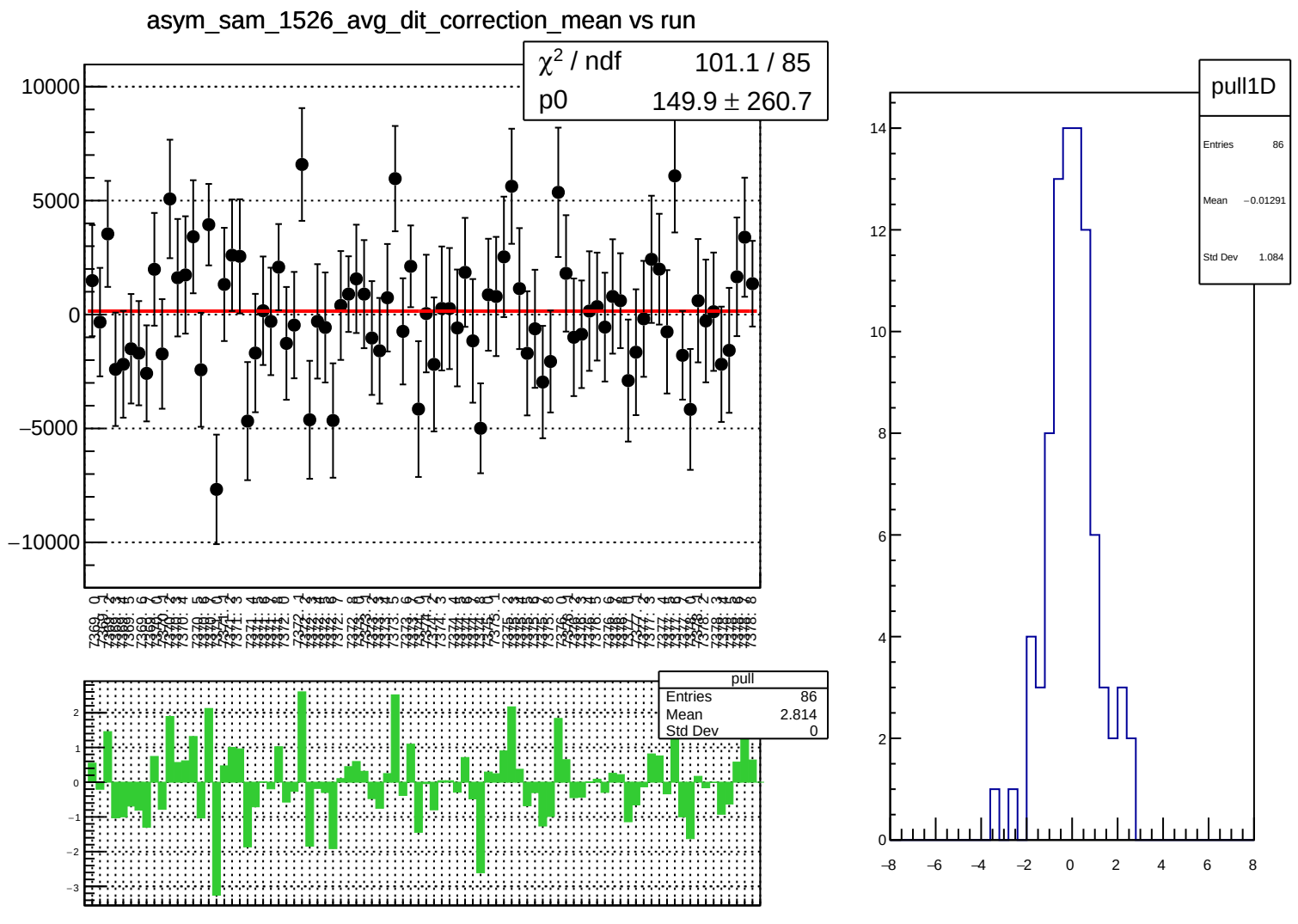

pull1D
Entries 86
Mean −0.008234
Std Dev 1.025

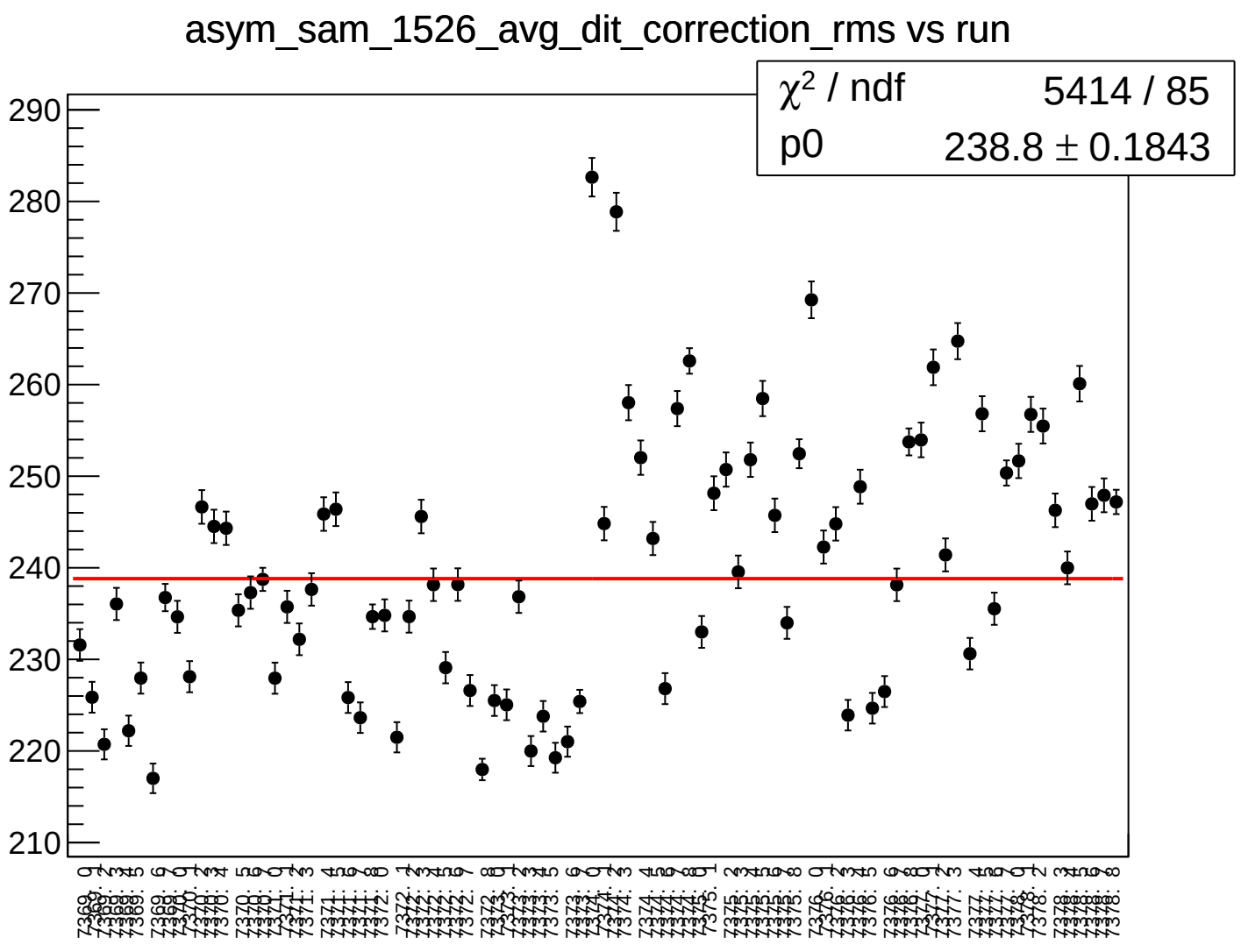

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 9129 / 85
p0 227.1 ± 0.1755
280
270
260
250
240
230
220
210
200
190

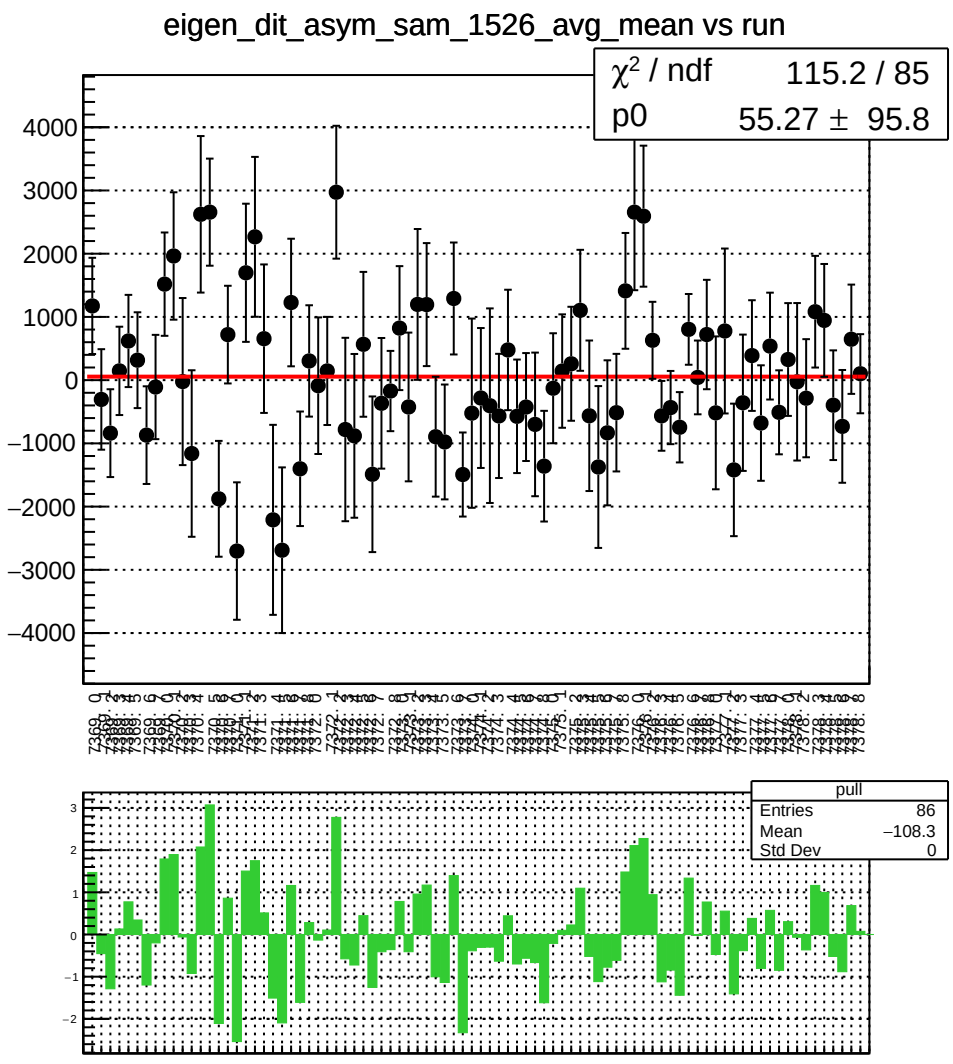

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 115.2 / 85
p0 55.27 ± 95.8
pull
Entries 86
Mean −108.3
Std Dev 0

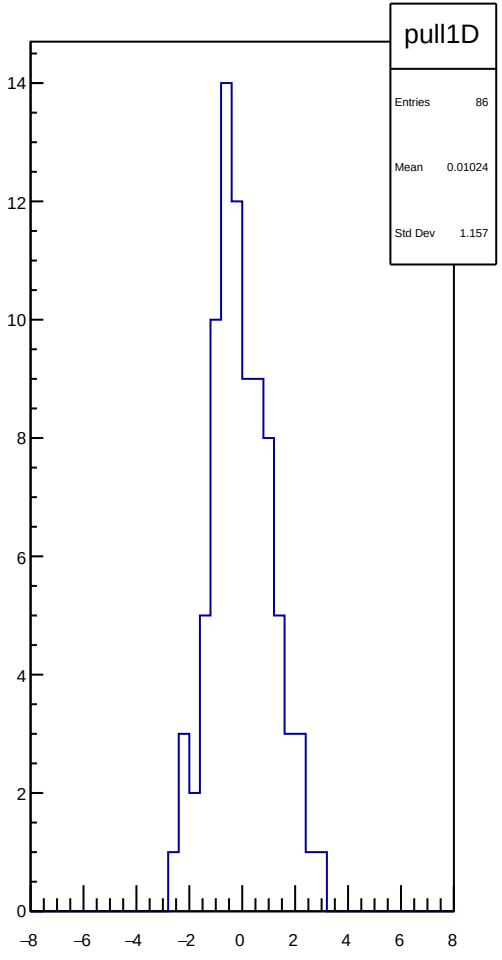

pull1D
Entries 86
Mean 0.01024
Std Dev 1.157

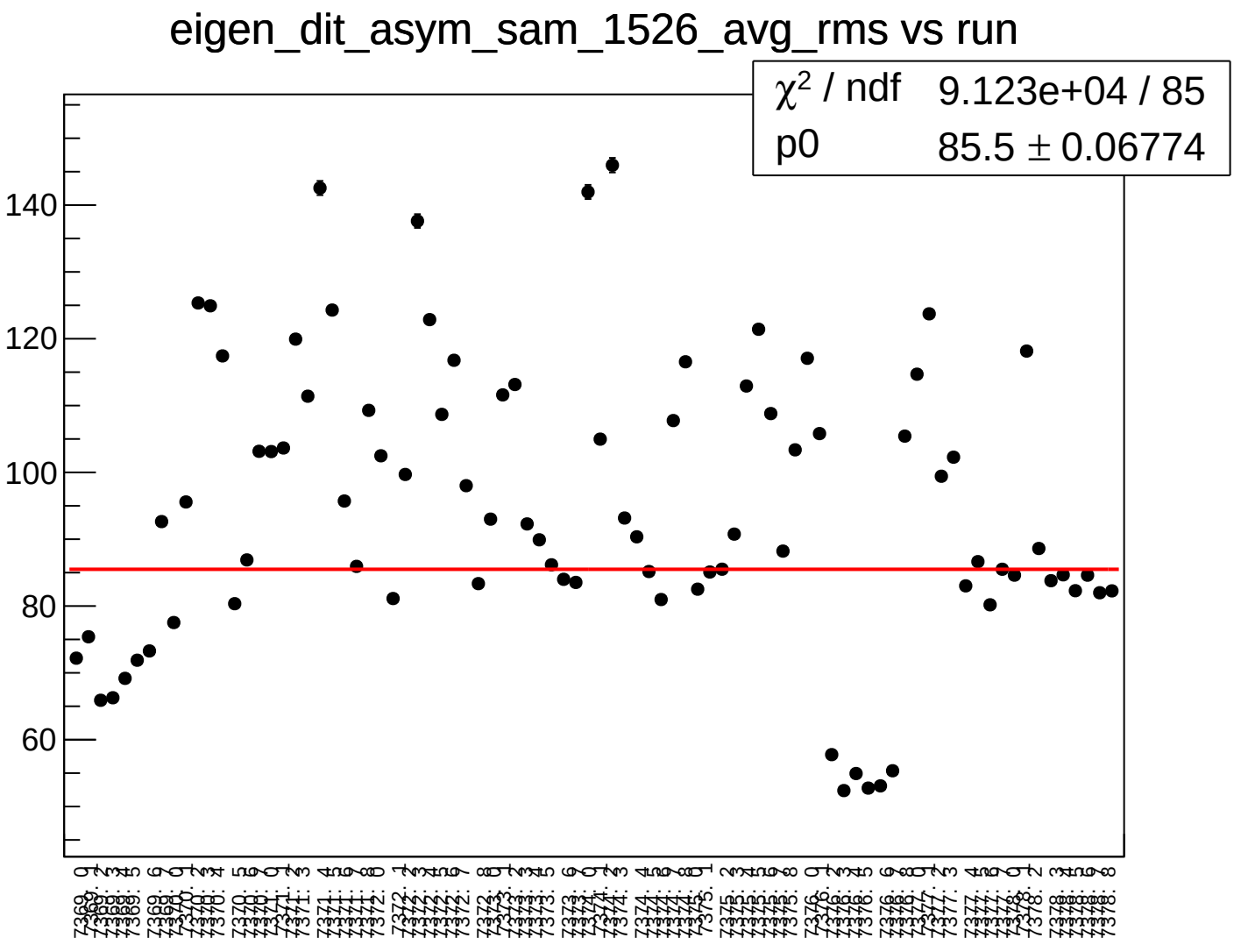

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 9.123e+04 / 85
p0 85.5 ± 0.06774
140
120
100
80
60

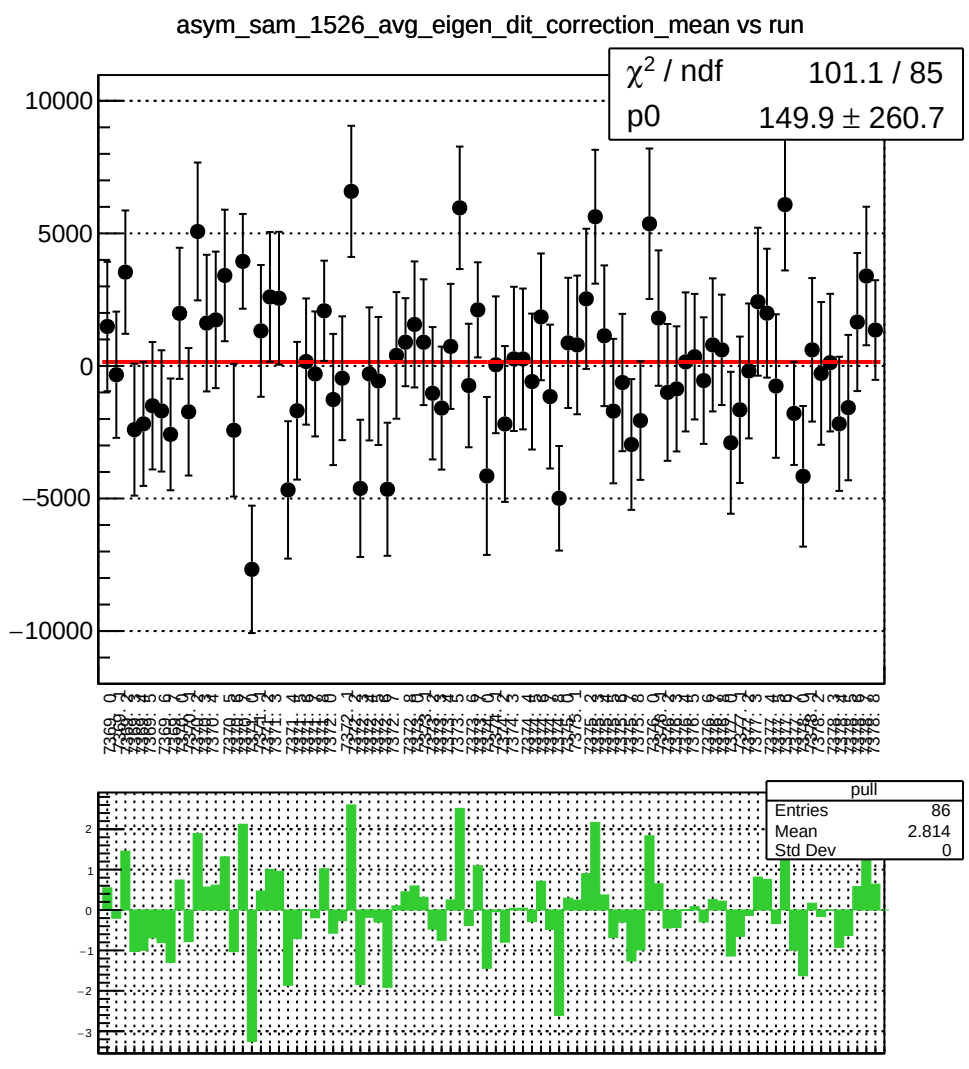

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 101.1 / 85
p0 149.9 ± 260.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 2.814
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01291
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

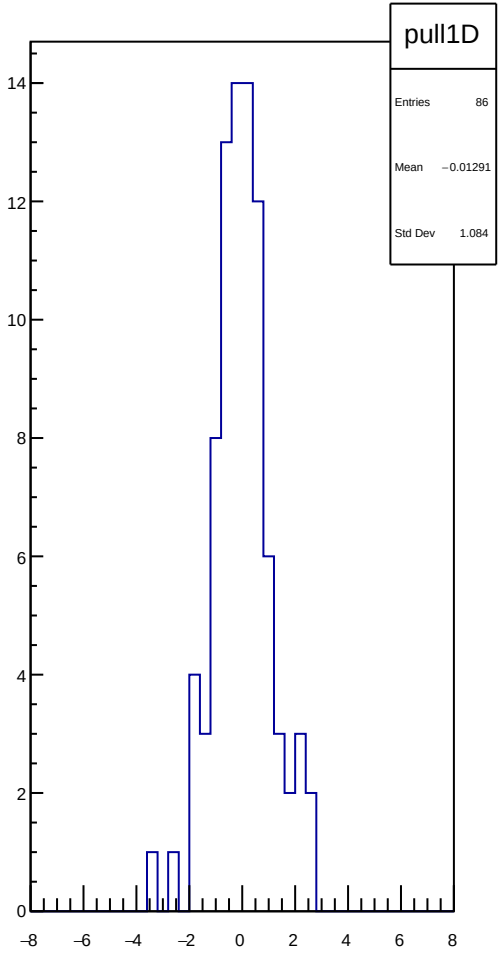

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 5414 / 85
p0 238.8 ± 0.1843
290
280
270
260
250
240
230
220
210

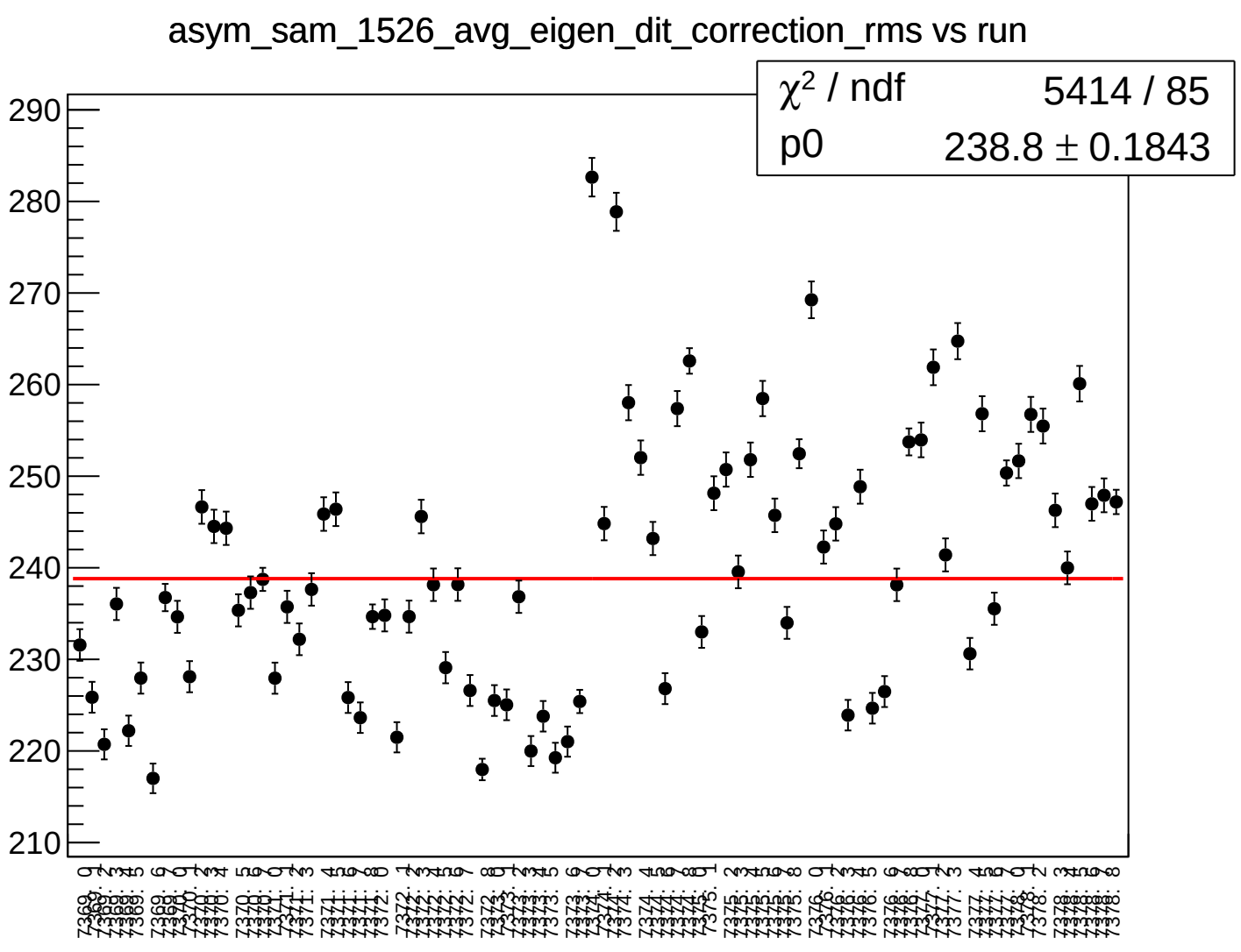

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 115.2 / 85
p0 55.27 ± 95.8
pull
Entries 86
Mean −108.3
Std Dev 0

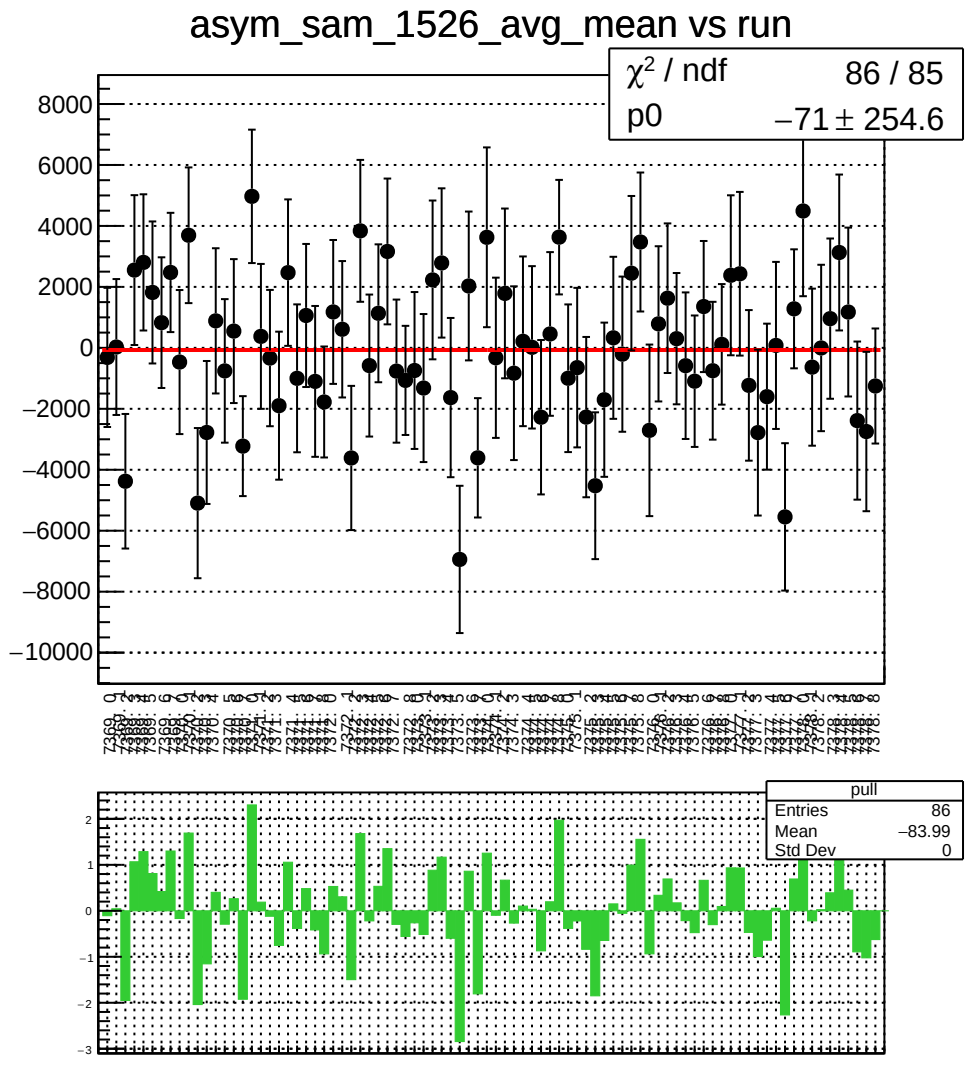

pull1D
Entries 86
Mean 0.01024
Std Dev 1.157

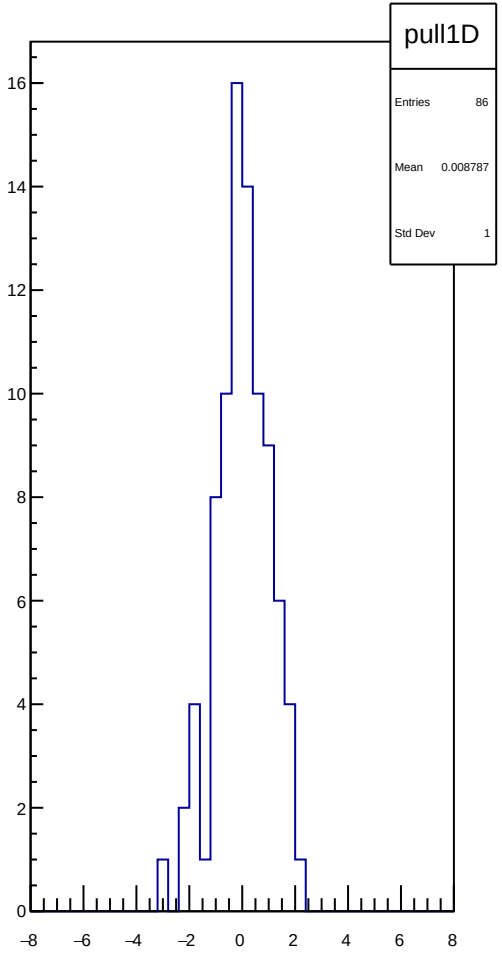

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 9.123e+04 / 85
p0 85.5 ± 0.06774
140
120
100
80
60

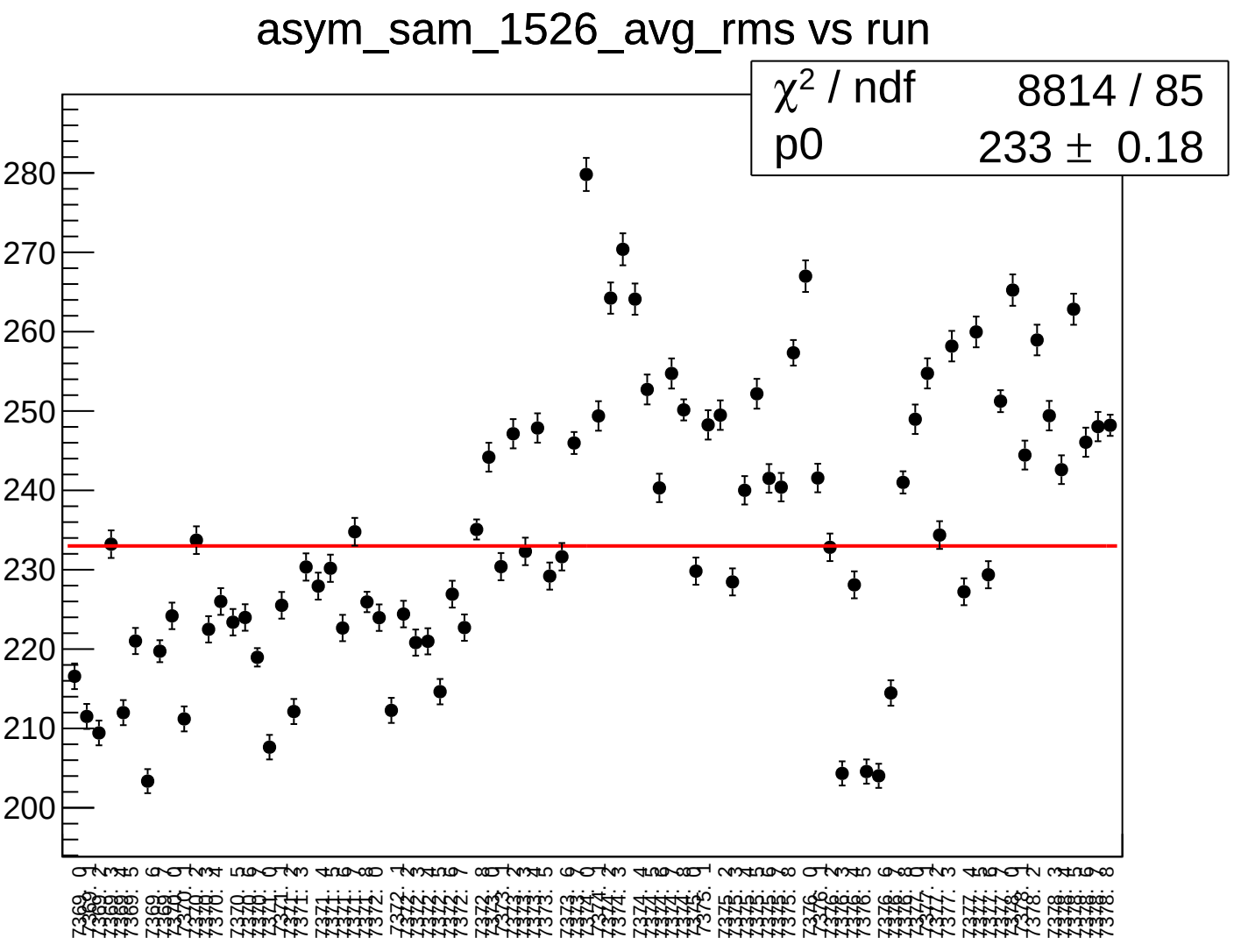

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.1 / 85
p0 149.9 ± 260.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 2.814
Std Dev 0
2
1
0
−1
−2
−3

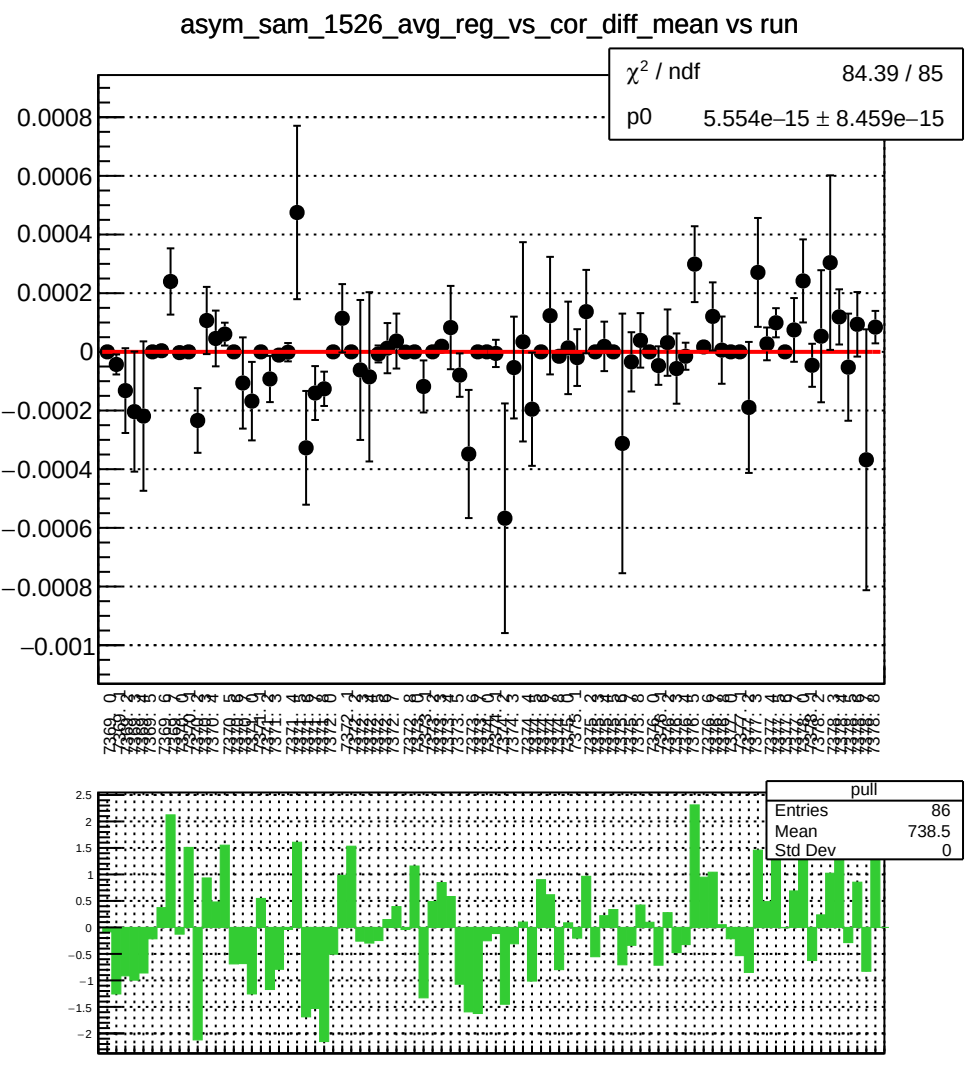

pull1D
Entries 86
Mean −0.01291
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

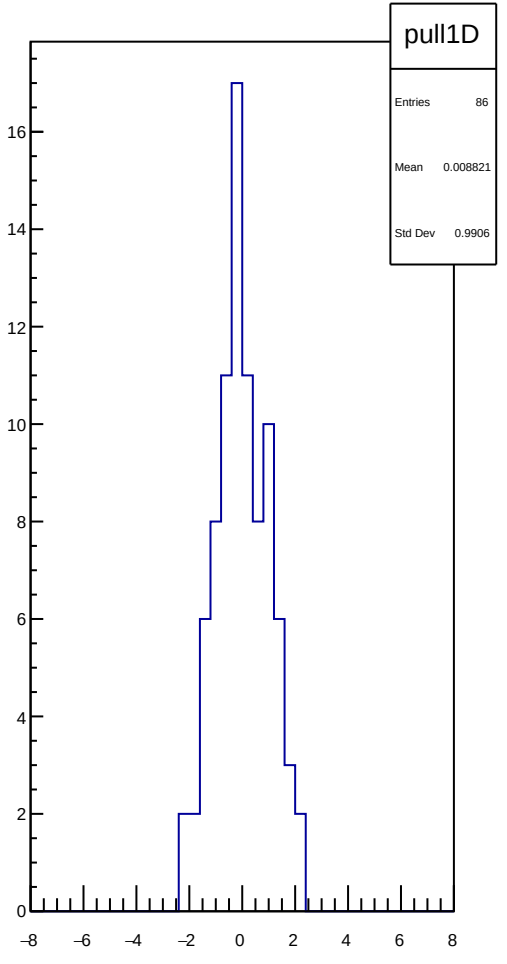

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 5414 / 85
p0 238.8 ± 0.1843
290
280
270
260
250
240
230
220
210

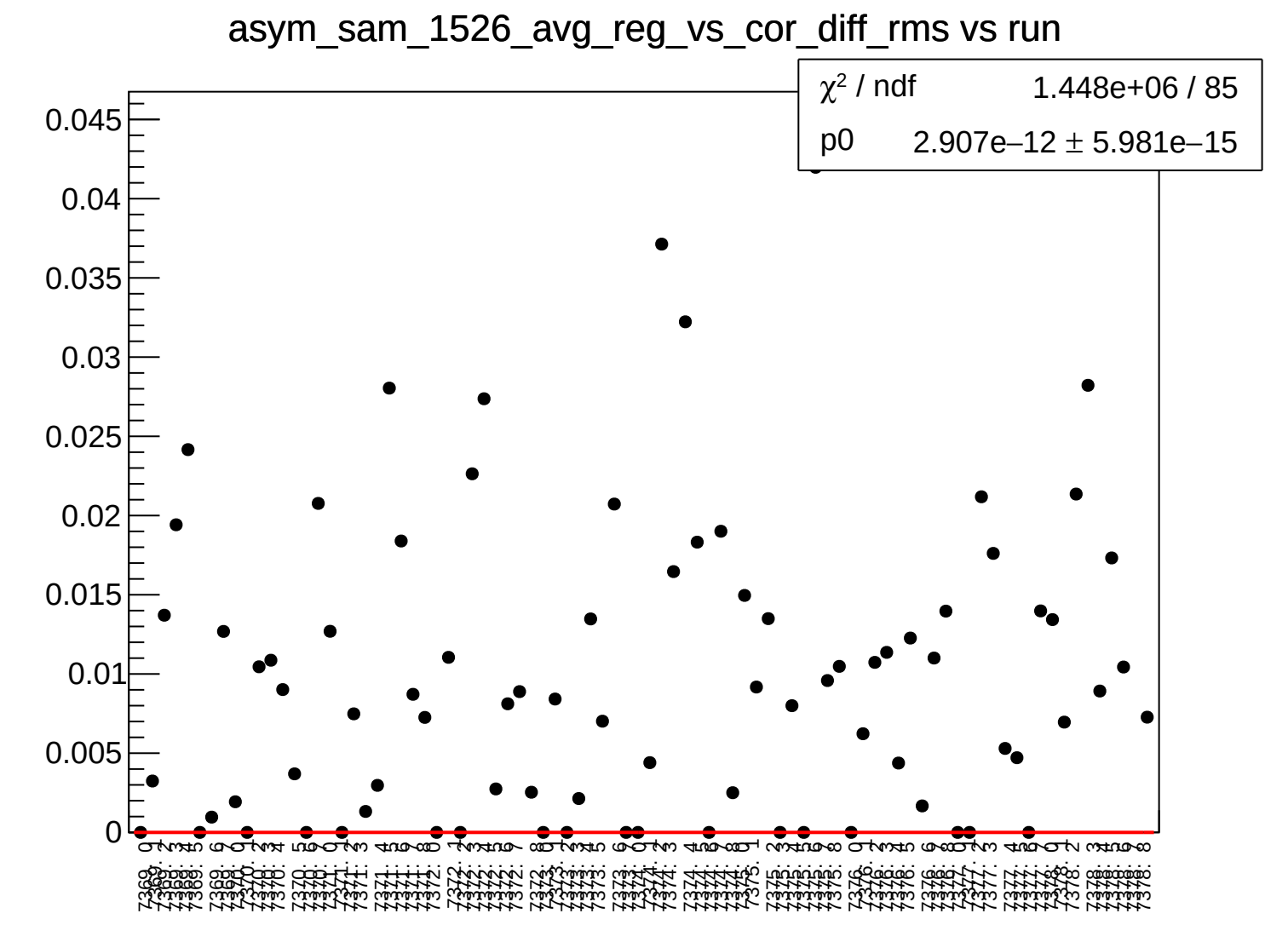

asym_sam_1526_avg_mean vs run
χ² / ndf 86 / 85
p0 −71 ± 254.6
pull
Entries 86
Mean −83.99
Std Dev 0

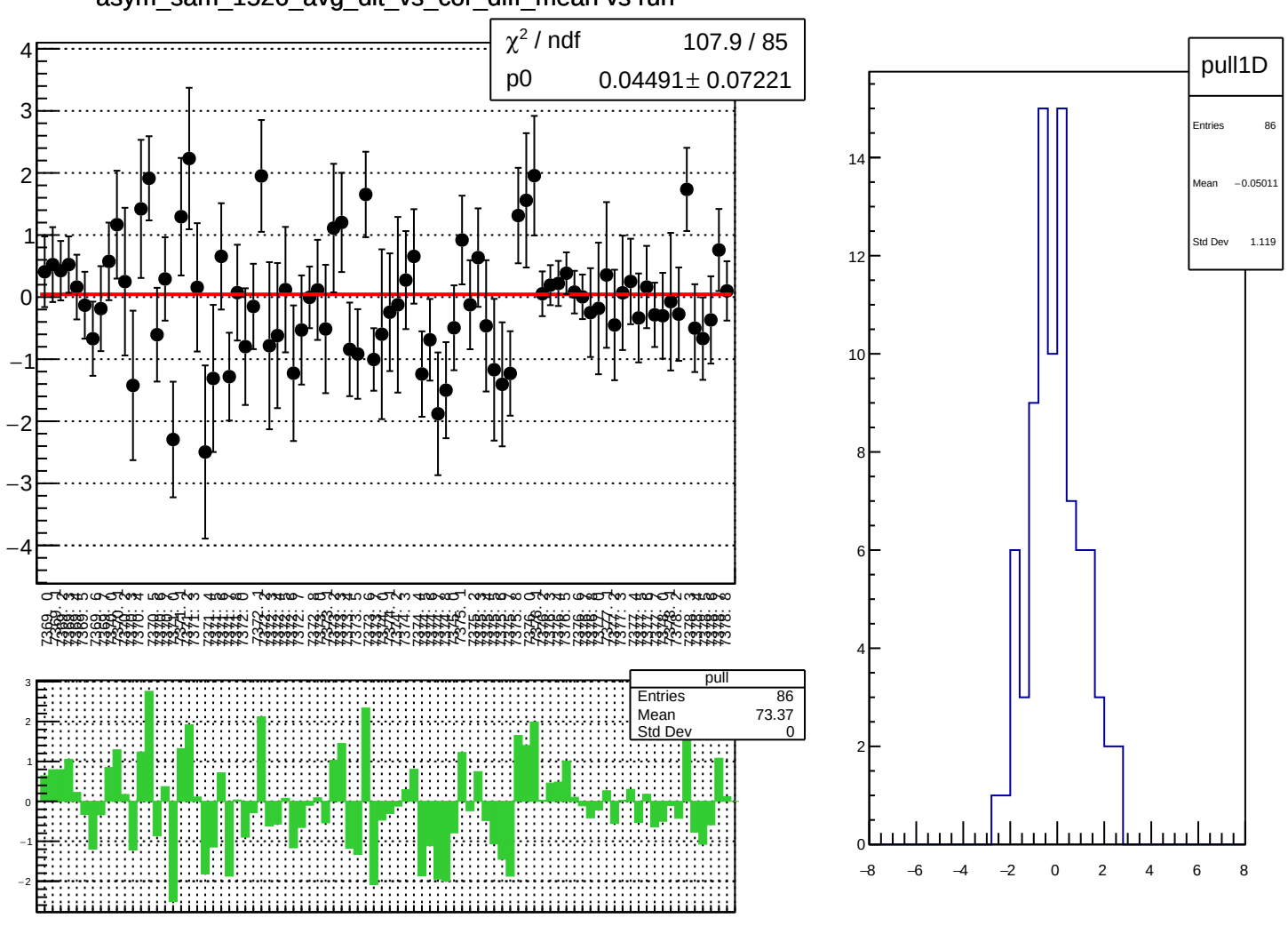

pull1D
Entries 86
Mean 0.008787
Std Dev 1

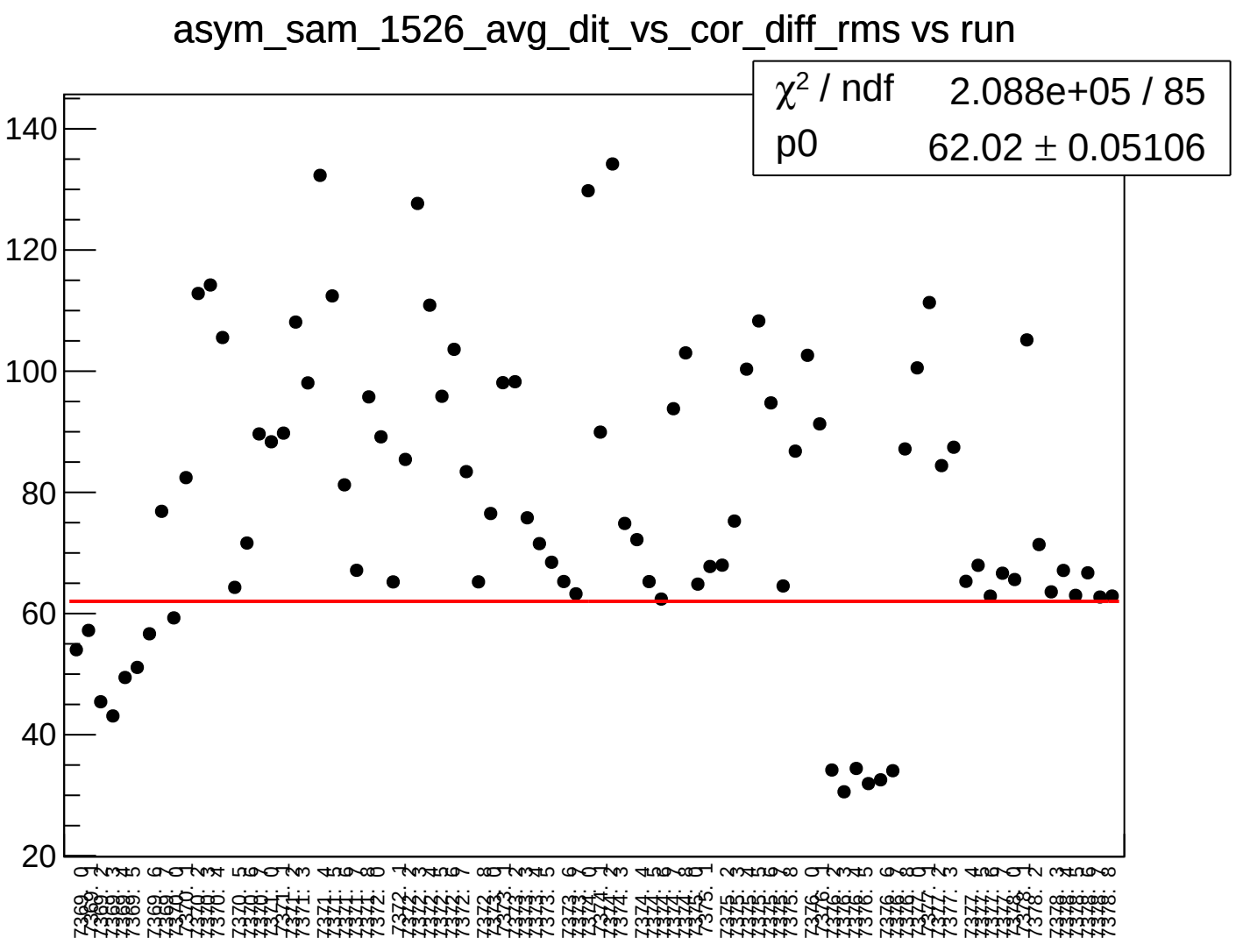

asym_sam_1526_avg_rms vs run
χ^2 / ndf 8814 / 85
p0 233 ± 0.18
280
270
260
250
240
230
220
210
200

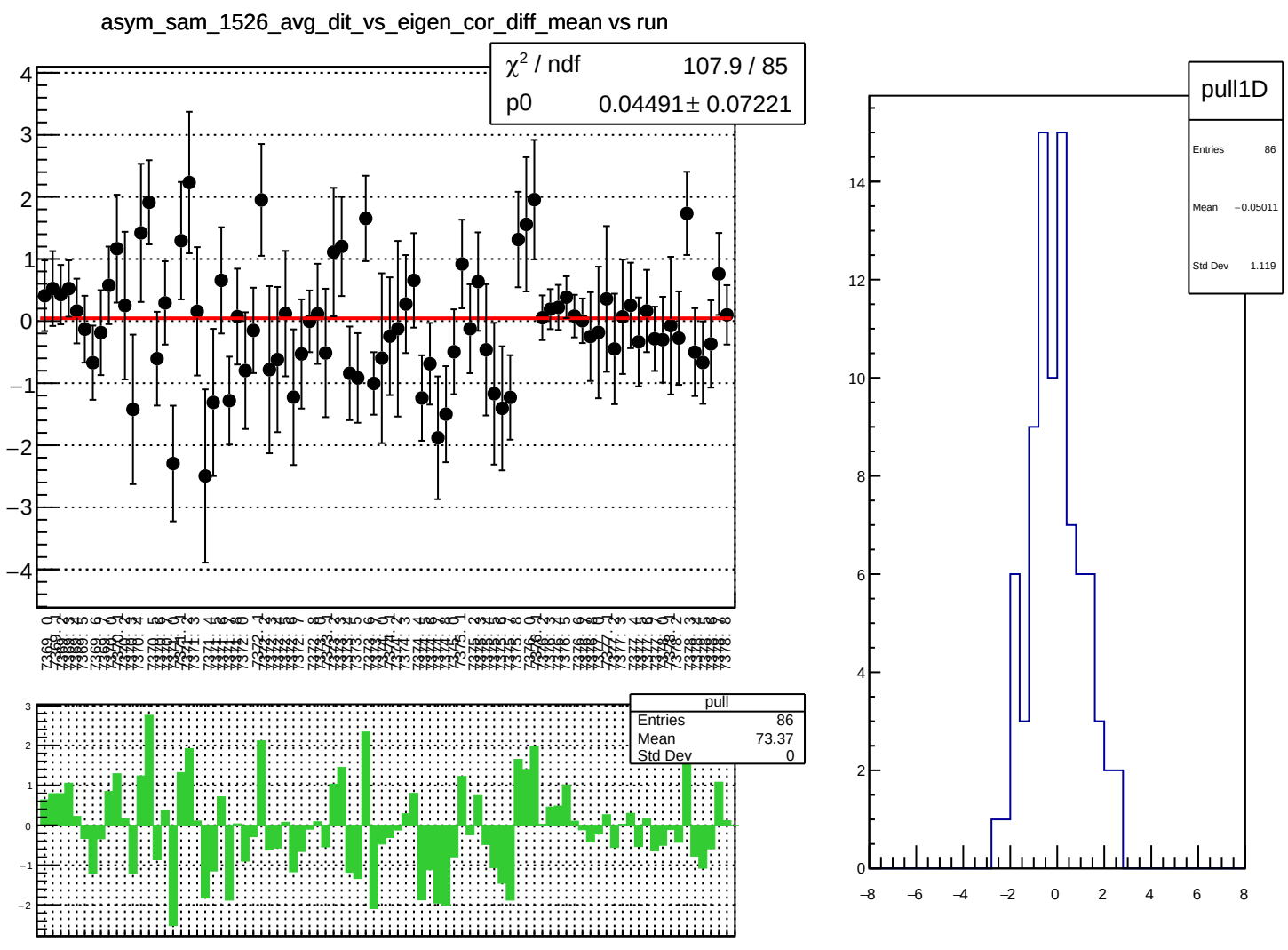

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.39 / 85
p0 5.554e−15 ± 8.459e−15
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 86
Mean 738.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

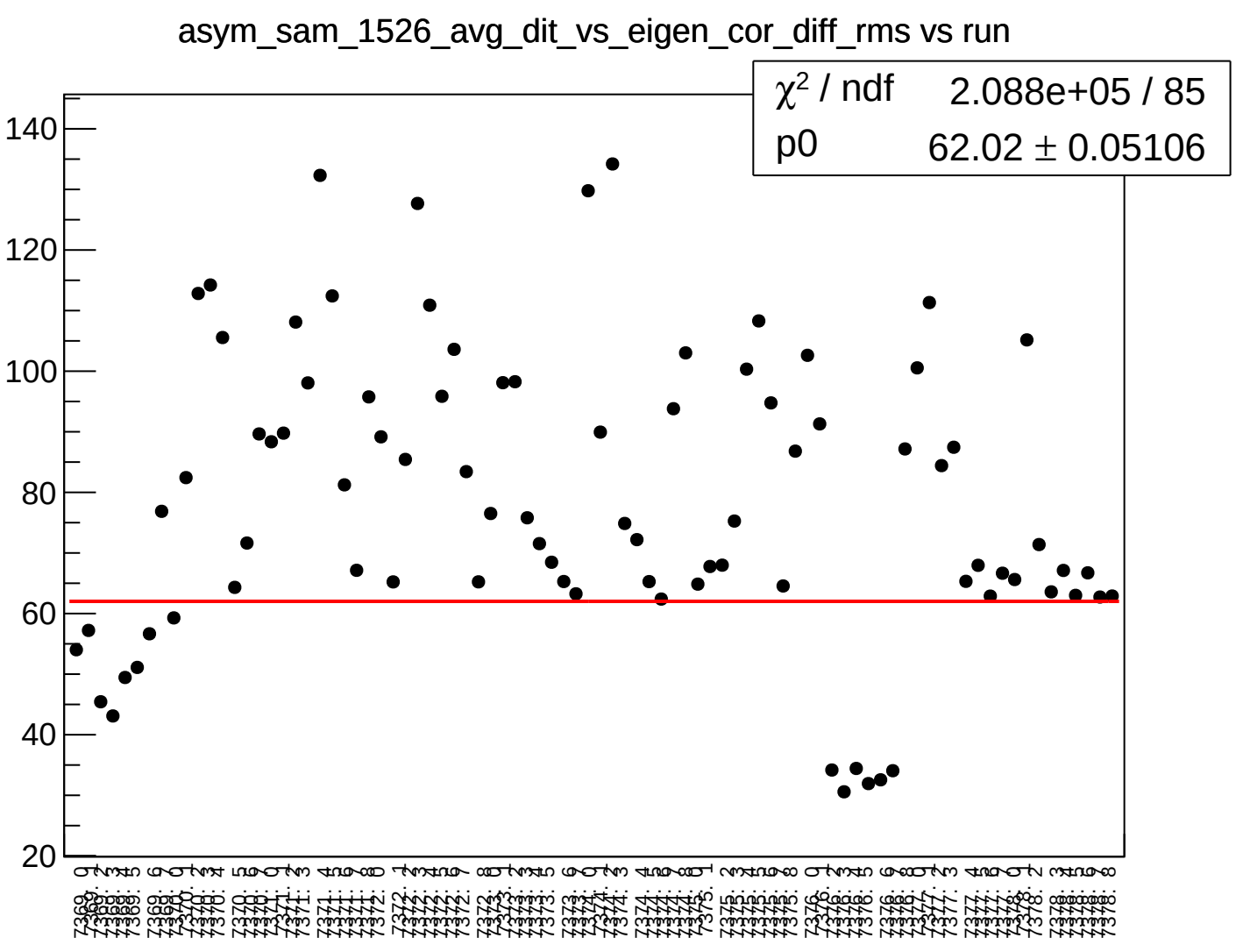

pull1D
Entries 86
Mean 0.008821
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

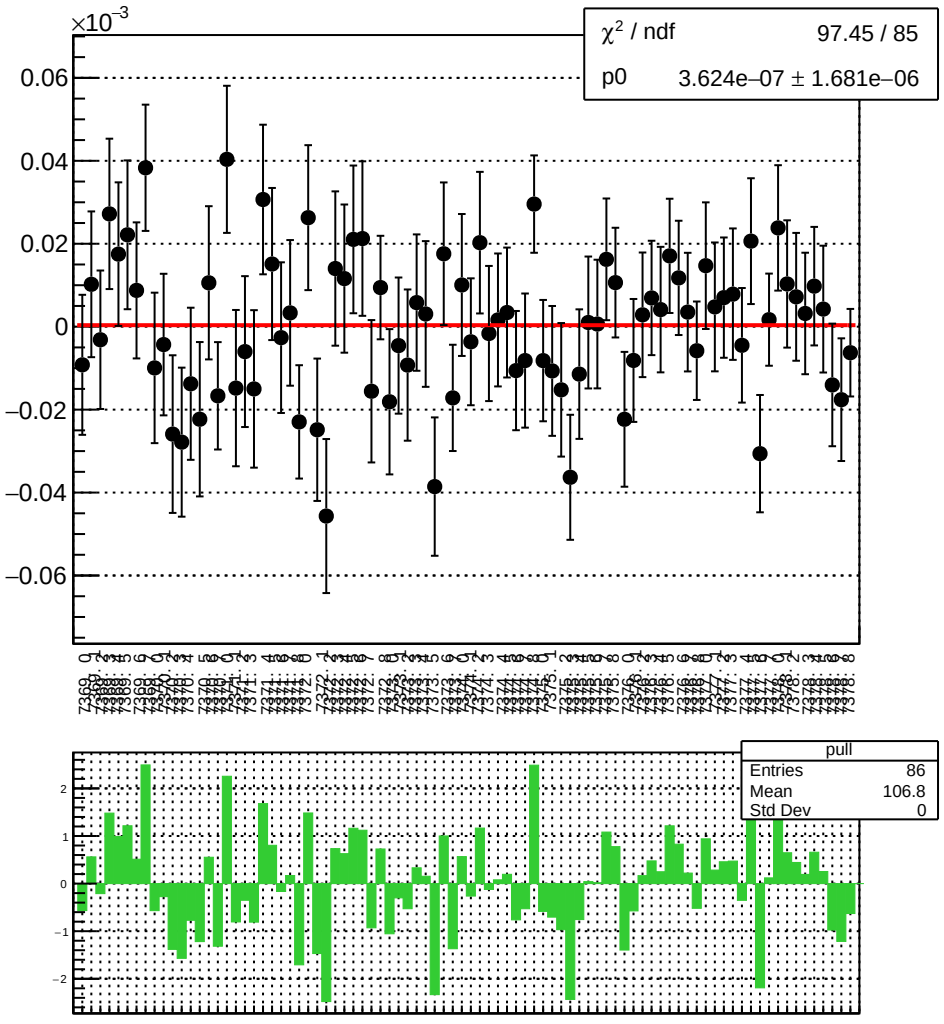

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.448e+06 / 85
p0 2.907e−12 ± 5.981e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

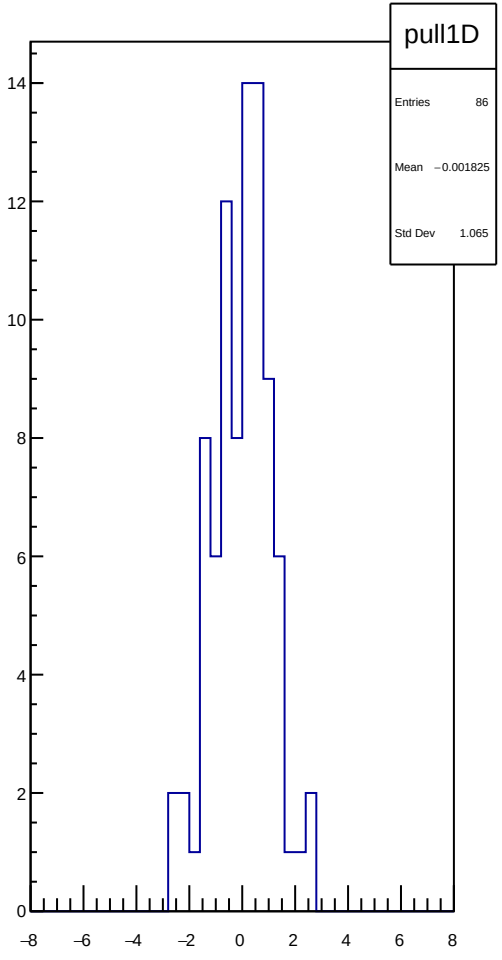

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 85
p0 0.04491± 0.07221
pull
Entries 86
Mean 73.37
Std Dev 0
pull1D
Entries 86
Mean −0.05011
Std Dev 1.119

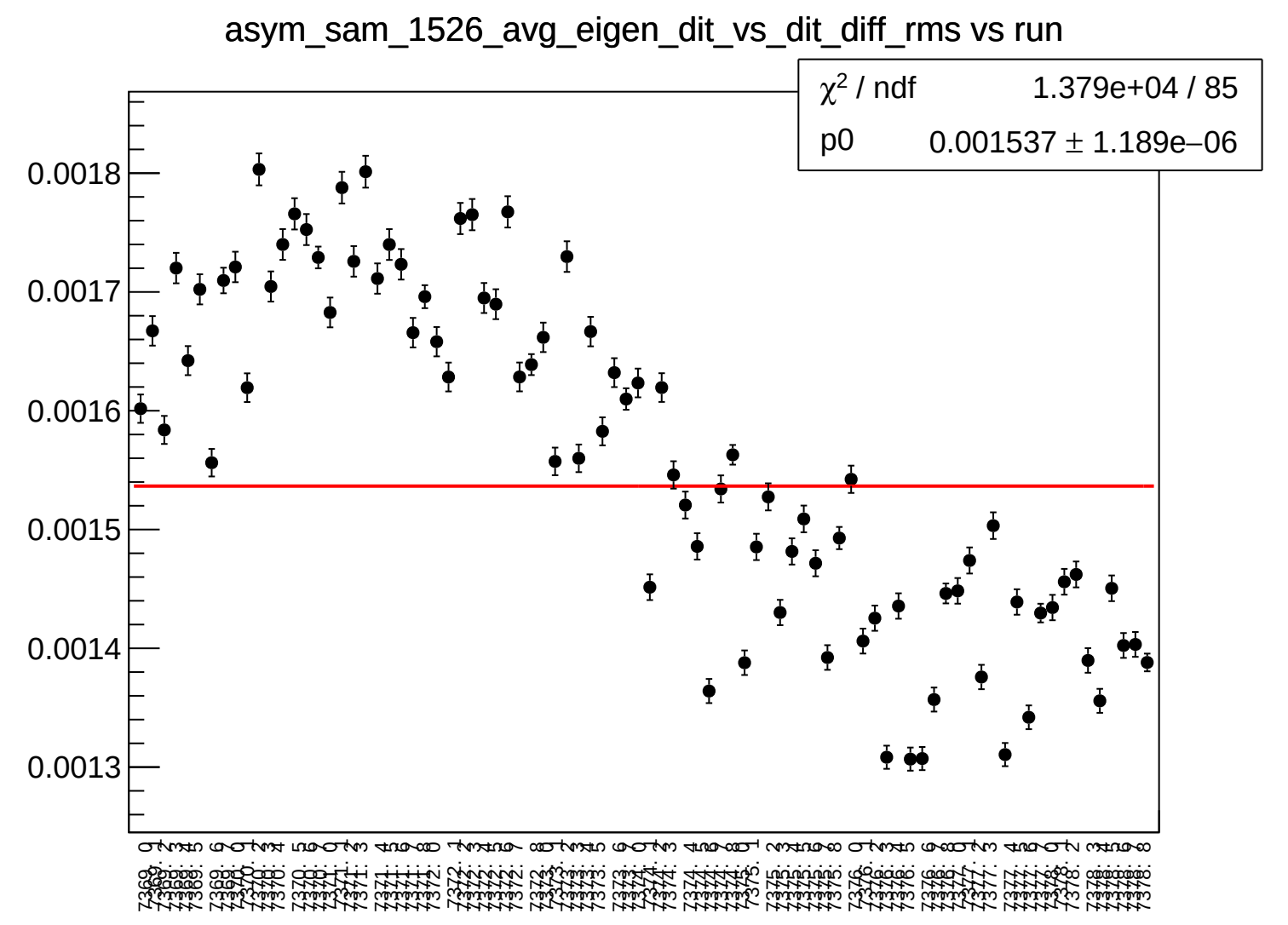

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.088e+05 / 85
p0 62.02 ± 0.05106
140
120
100
80
60
40
20

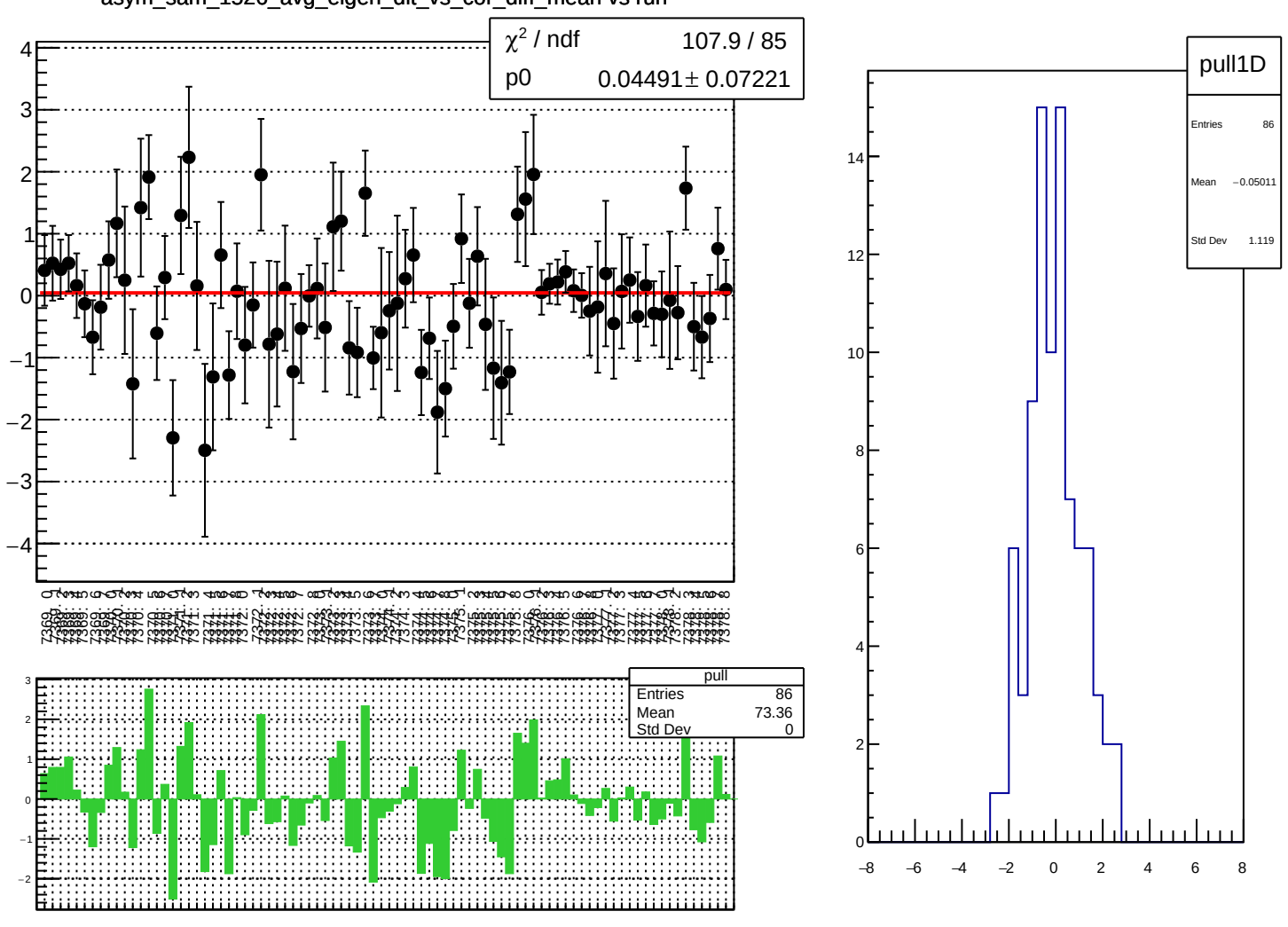

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.9 / 85
p0 0.04491± 0.07221
pull
Entries 86
Mean 73.37
Std Dev 0
pull1D
Entries 86
Mean −0.05011
Std Dev 1.119

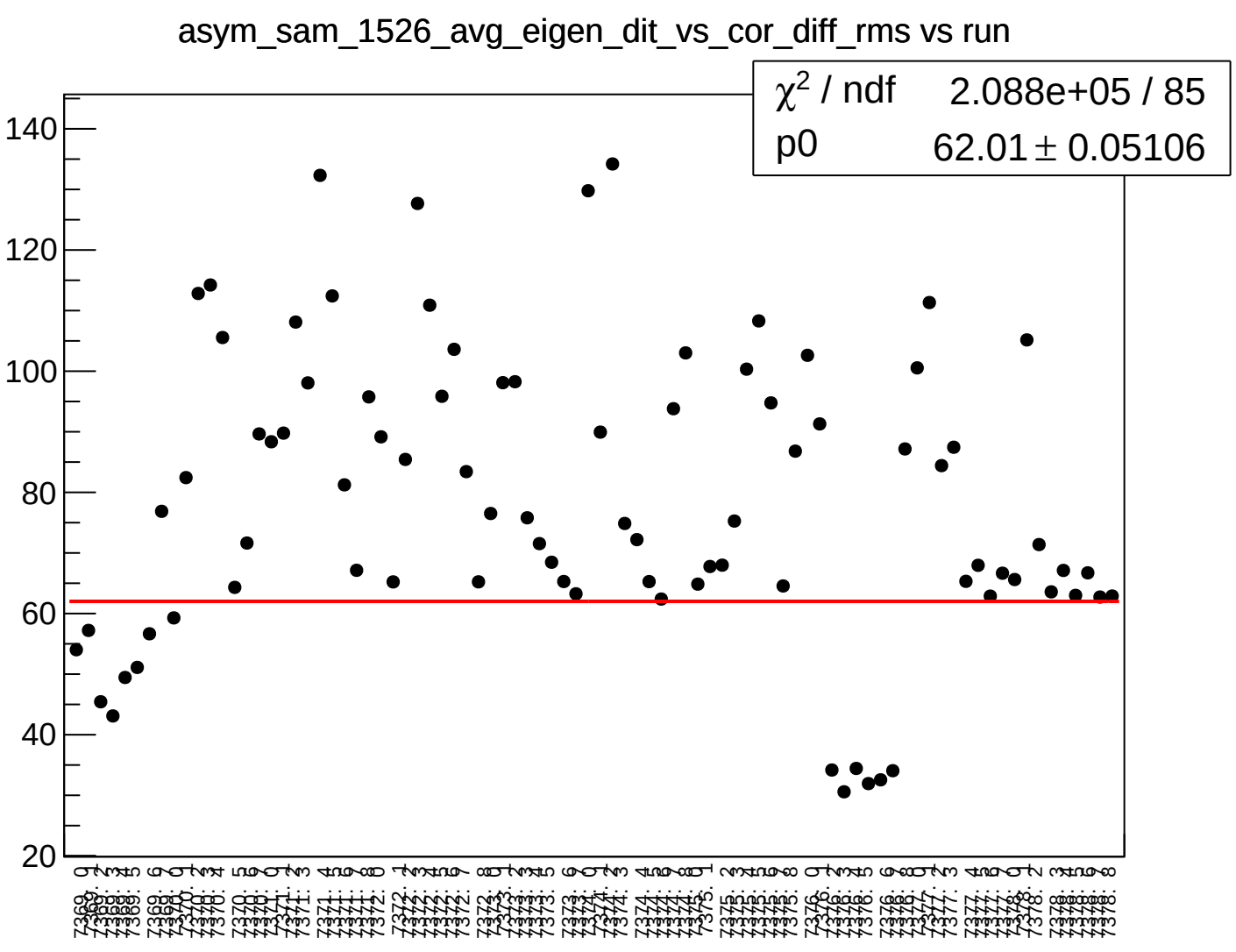

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.088e+05 / 85
p0 62.02 ± 0.05106
140
120
100
80
60
40
20

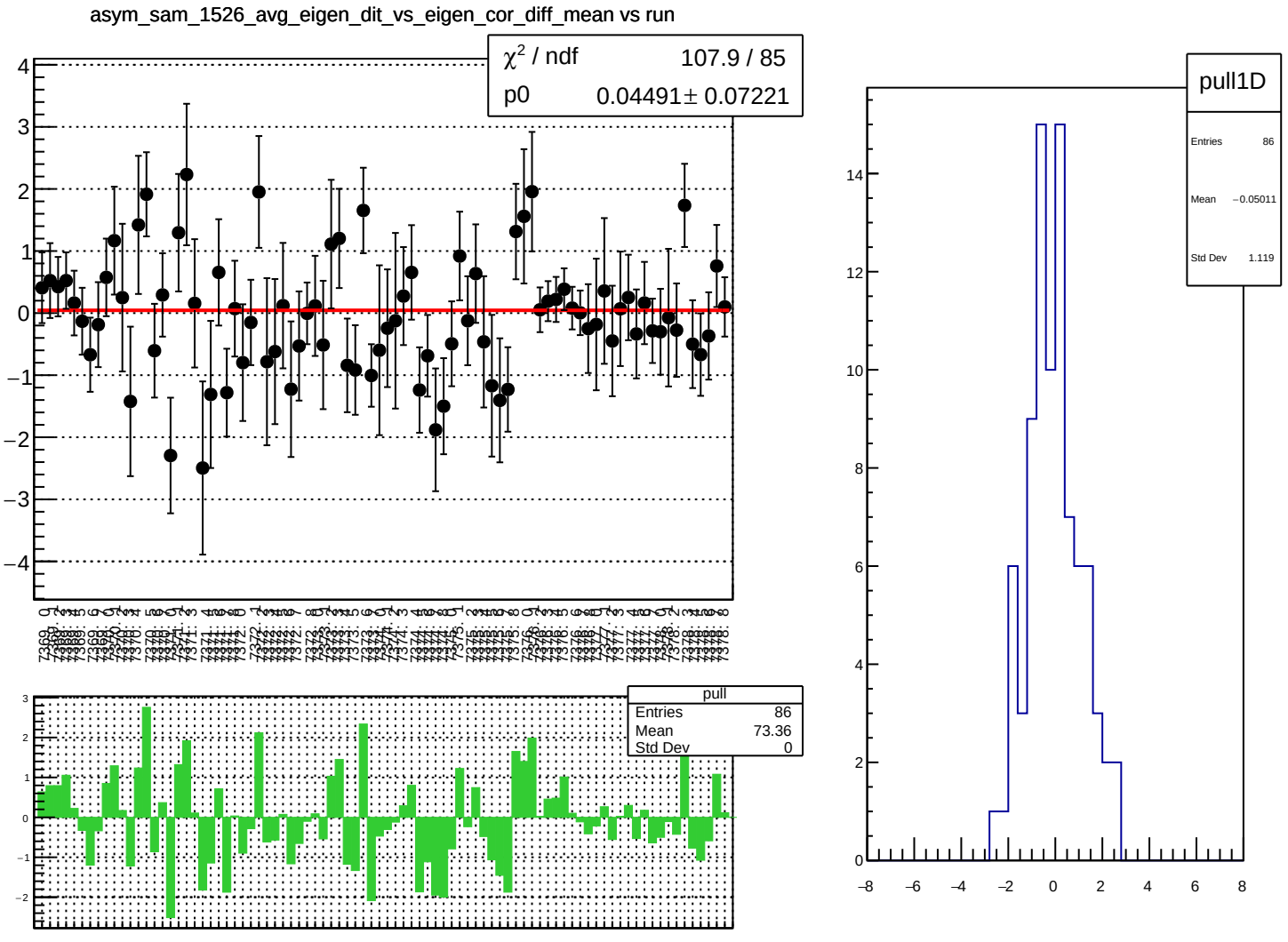

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.45 / 85
p0 3.624e−07 ± 1.681e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 106.8
Std Dev 0
2
1
0
−1
−2

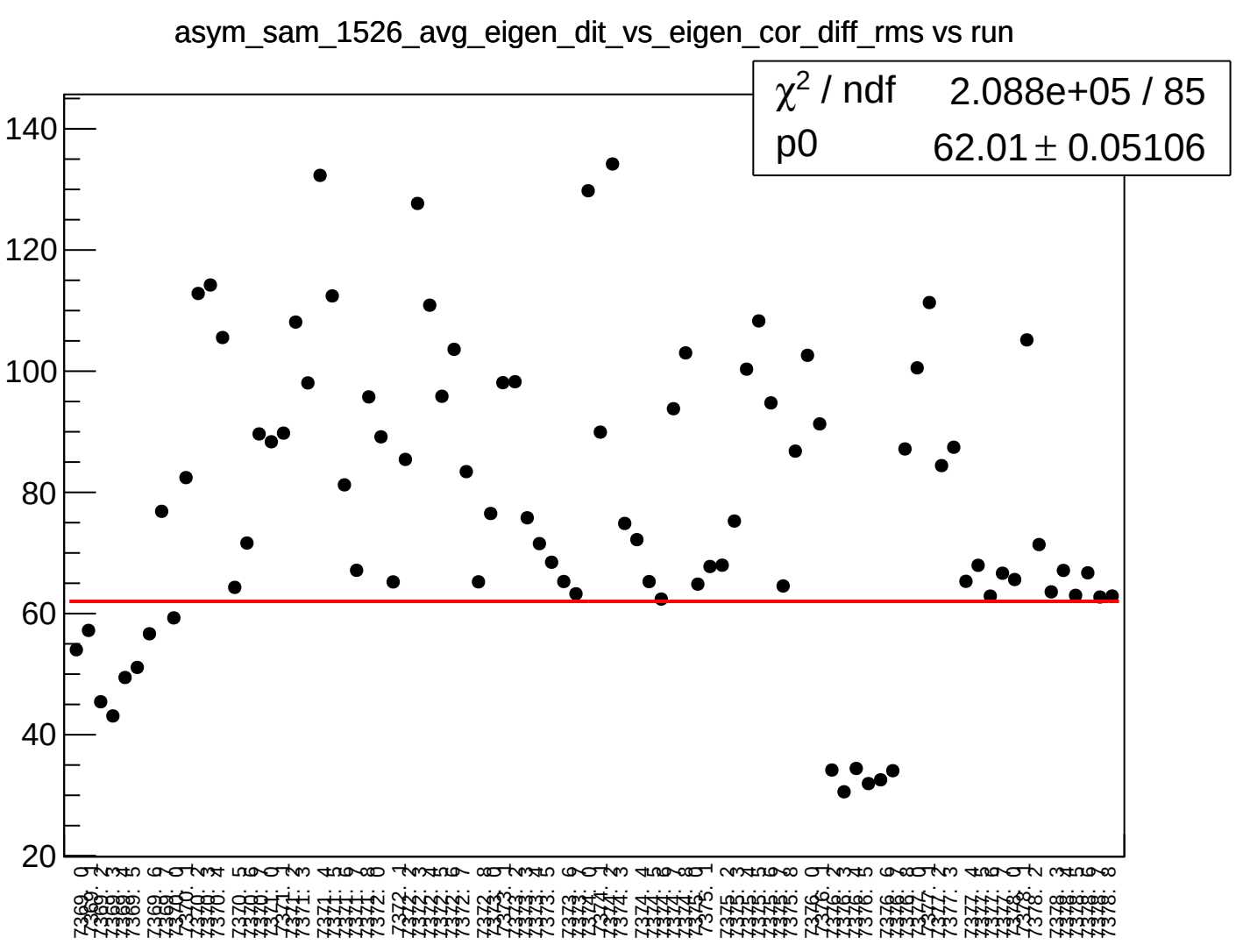

pull1D
Entries 86
Mean −0.001825
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

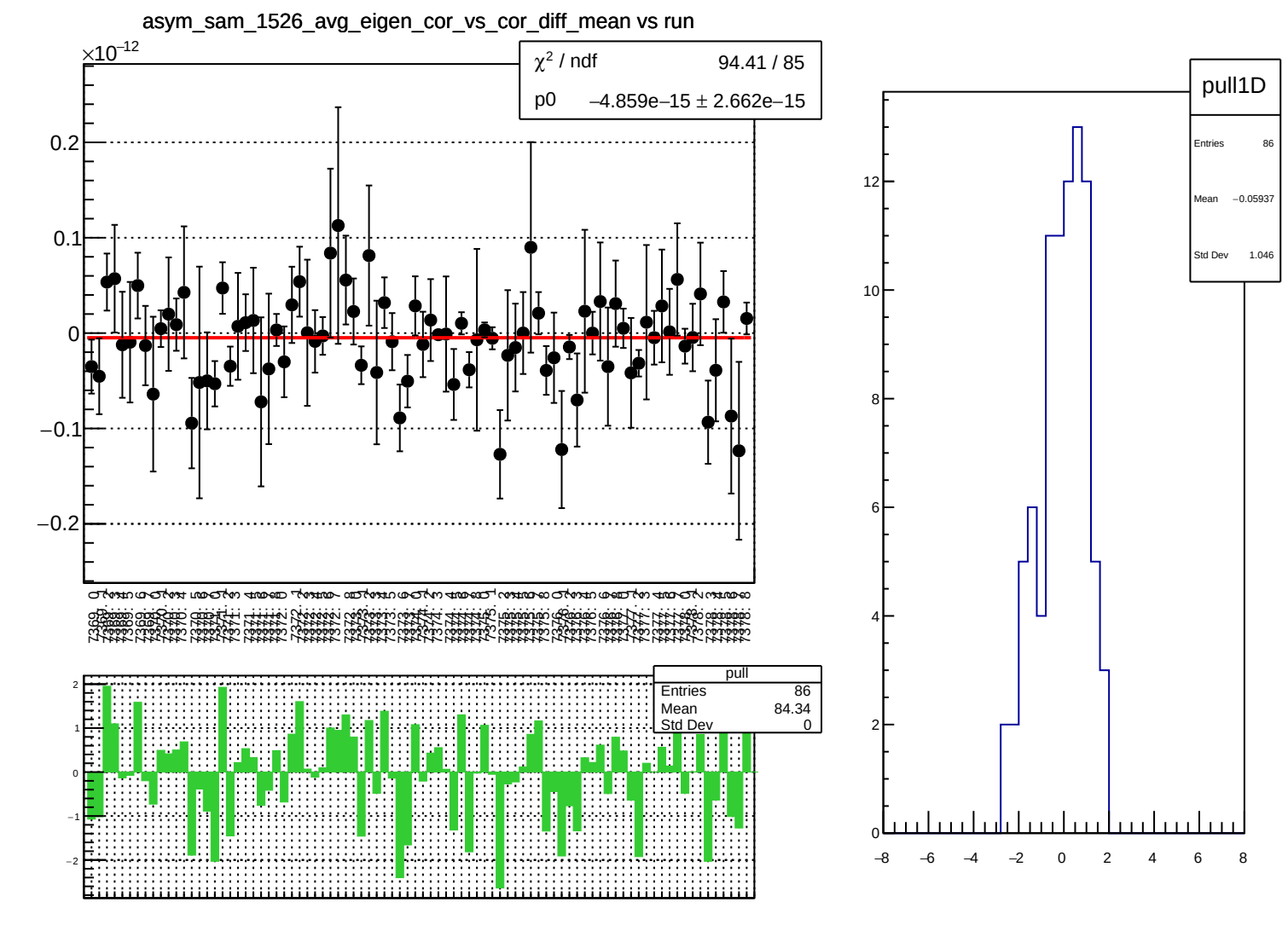

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.379e+04 / 85
p0 0.001537 ± 1.189e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

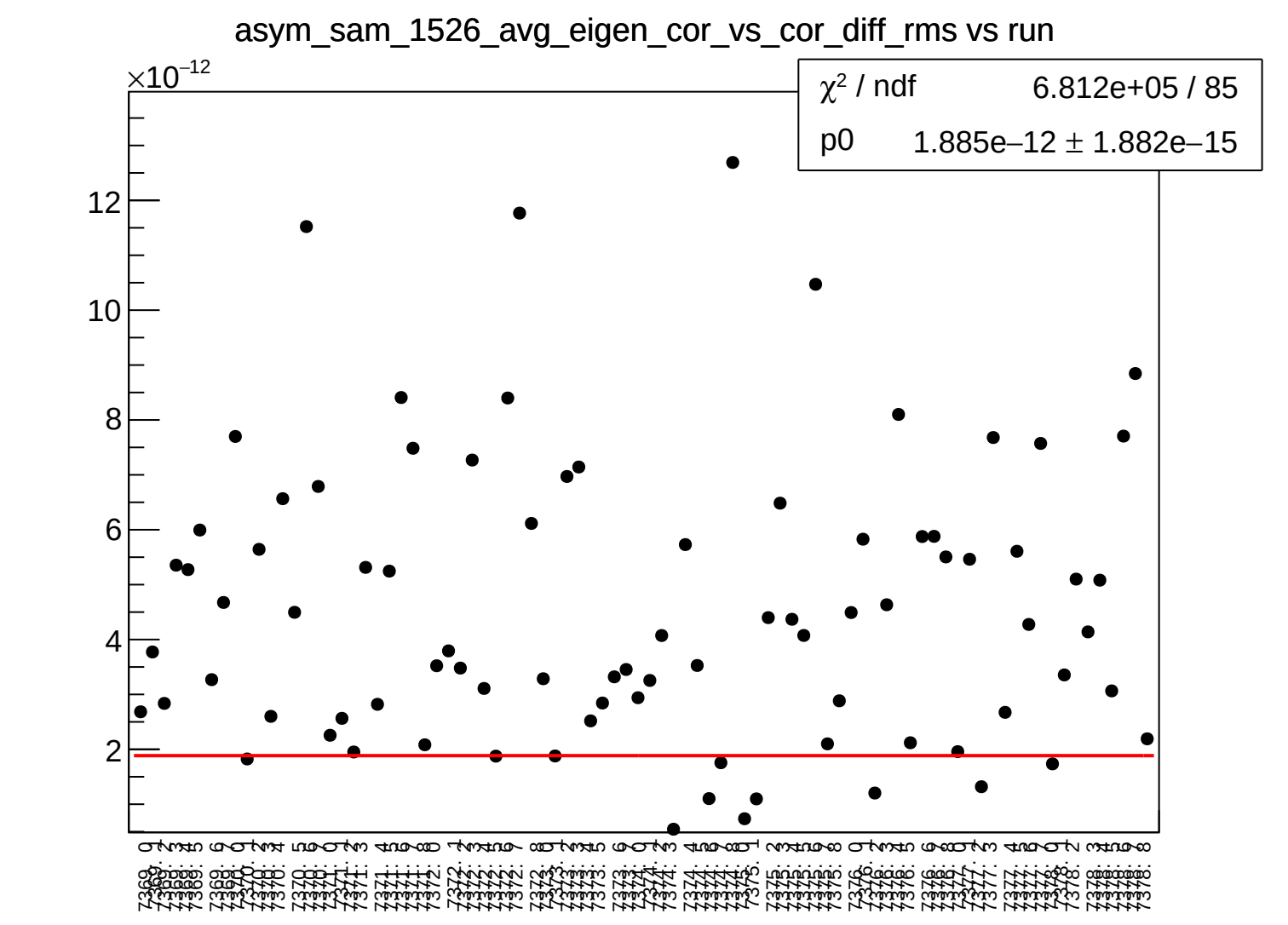

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 85
p0 0.04491± 0.07221
pull
Entries 86
Mean 73.36
Std Dev 0
pull1D
Entries 86
Mean −0.05011
Std Dev 1.119

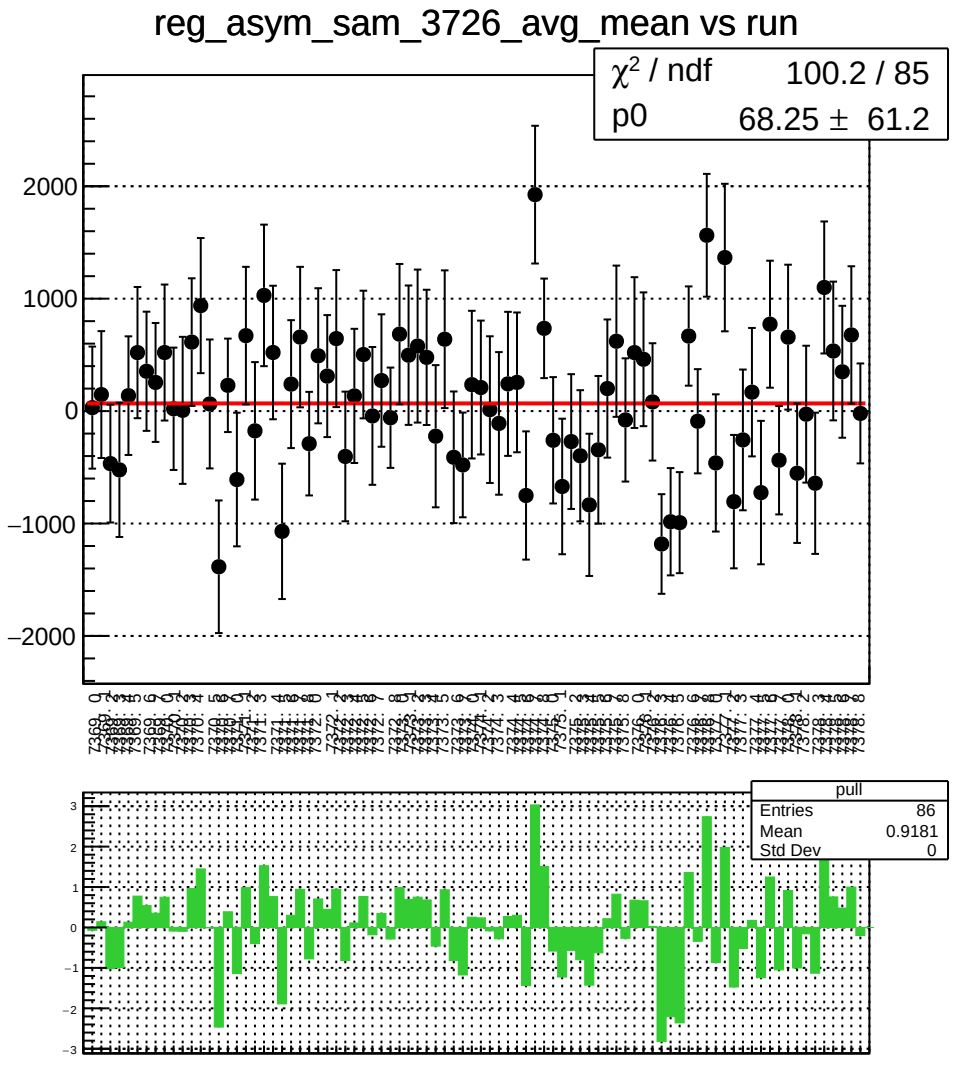

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.088e+05 / 85
p0 62.01 ± 0.05106
140
120
100
80
60
40
20

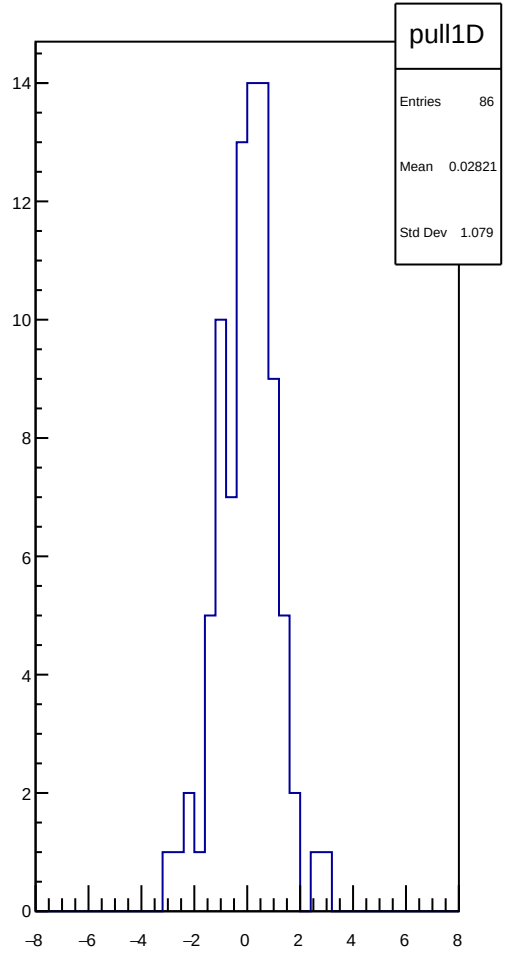

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.9 / 85
p0 0.04491± 0.07221
pull
Entries 86
Mean 73.36
Std Dev 0
pull1D
Entries 86
Mean −0.05011
Std Dev 1.119

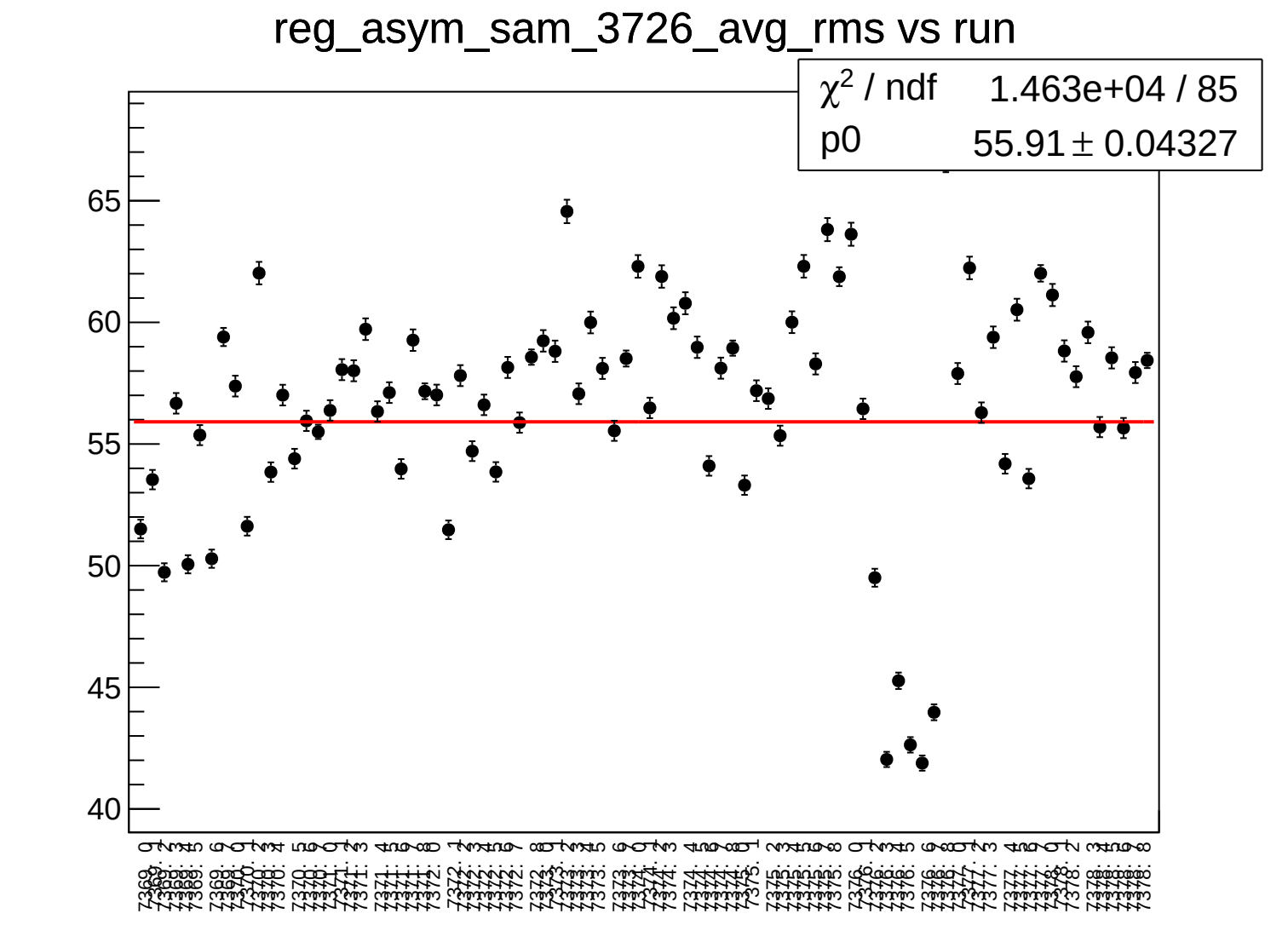

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.088e+05 / 85
p0 62.01 ± 0.05106
140
120
100
80
60
40
20

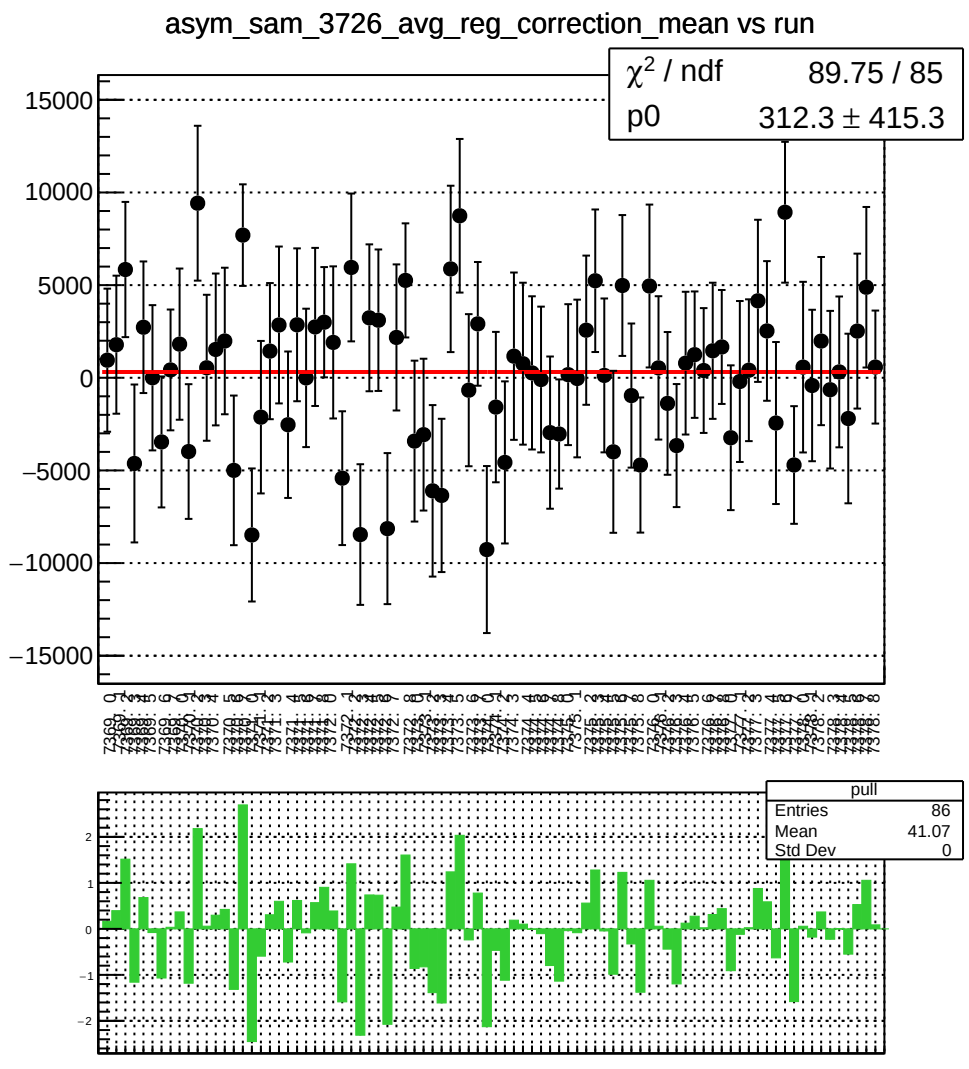

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.41 / 85
p0 −4.859e−15 ± 2.662e−15
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean 84.34
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.05937
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

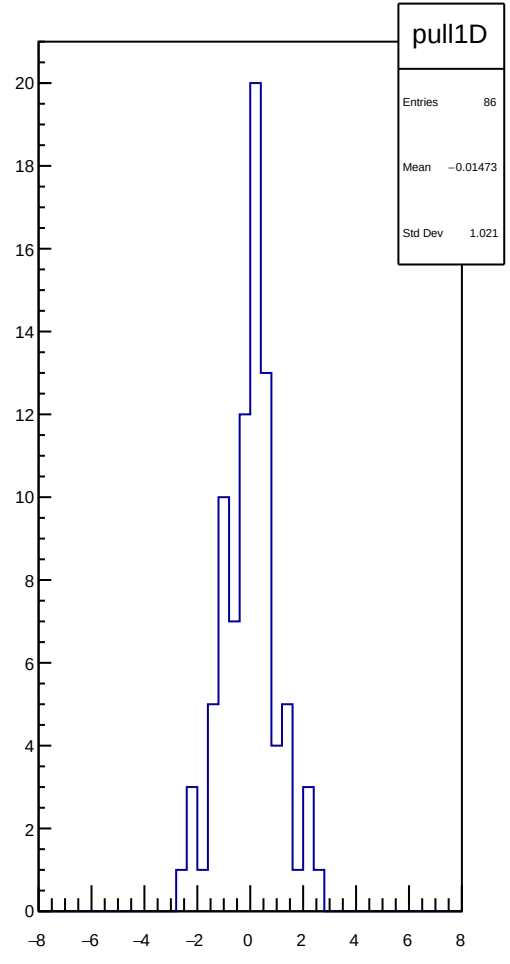

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.812e+05 / 85
p0 1.885e−12 ± 1.882e−15
12
10
8
6
4
2

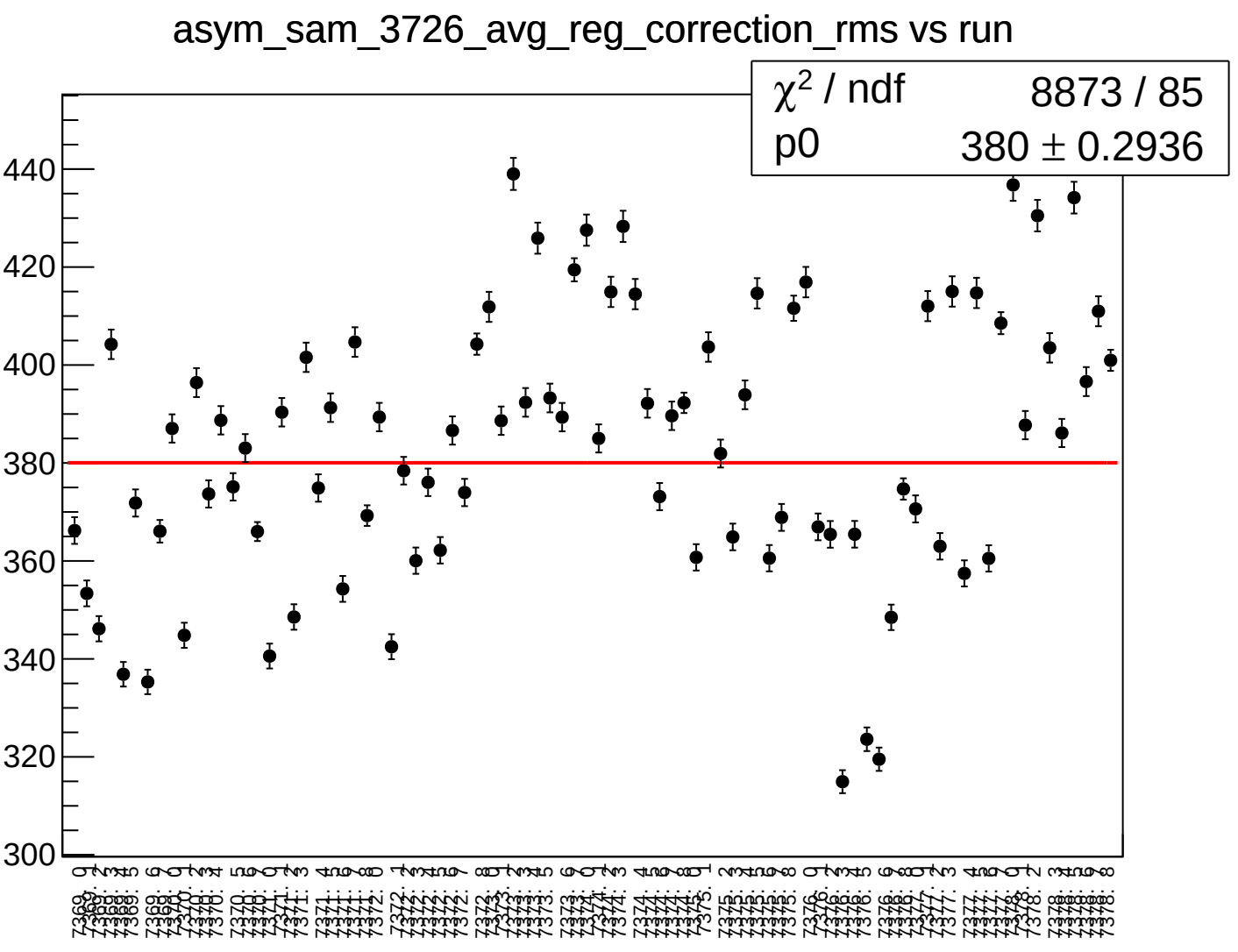

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 100.2 / 85
p0 68.25 ± 61.2
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 0.9181
Std Dev 0
3
2
1
0
−1
−2
−3

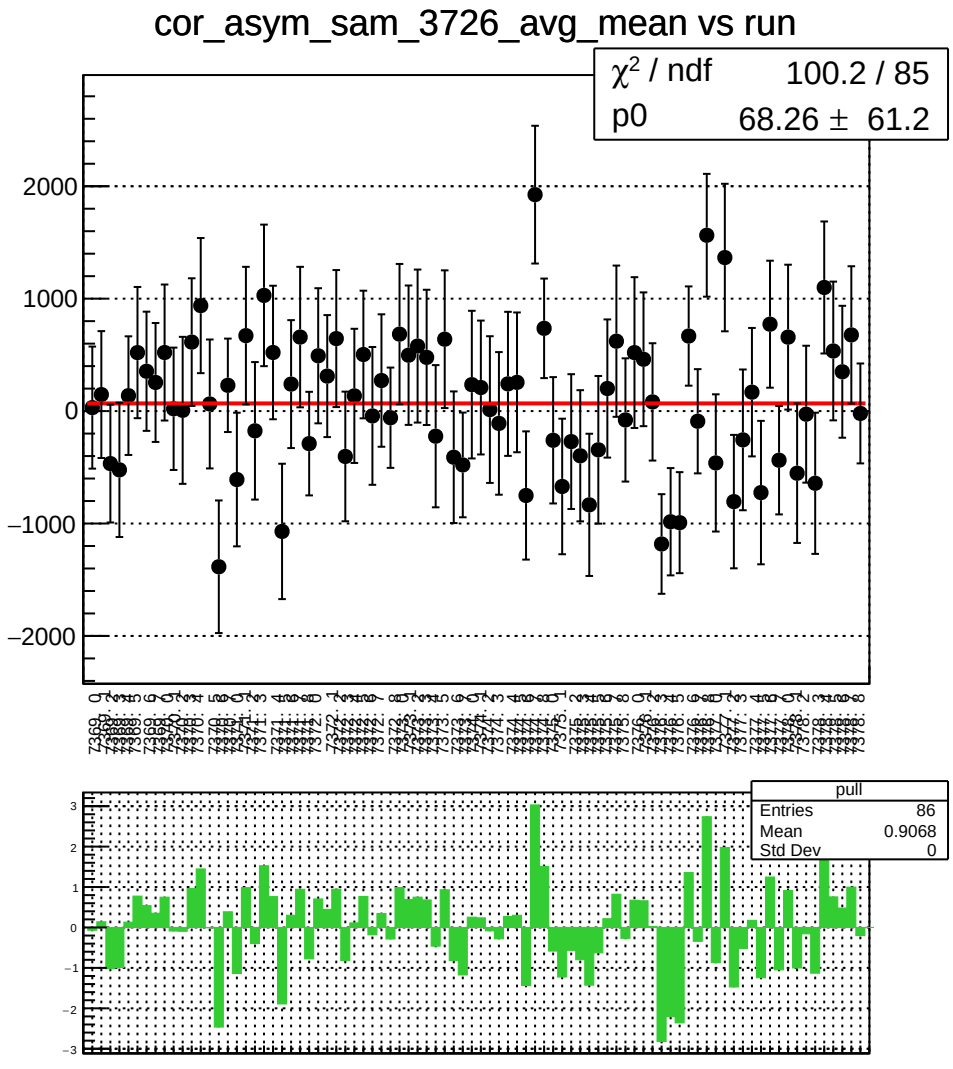

pull1D
Entries 86
Mean 0.02821
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

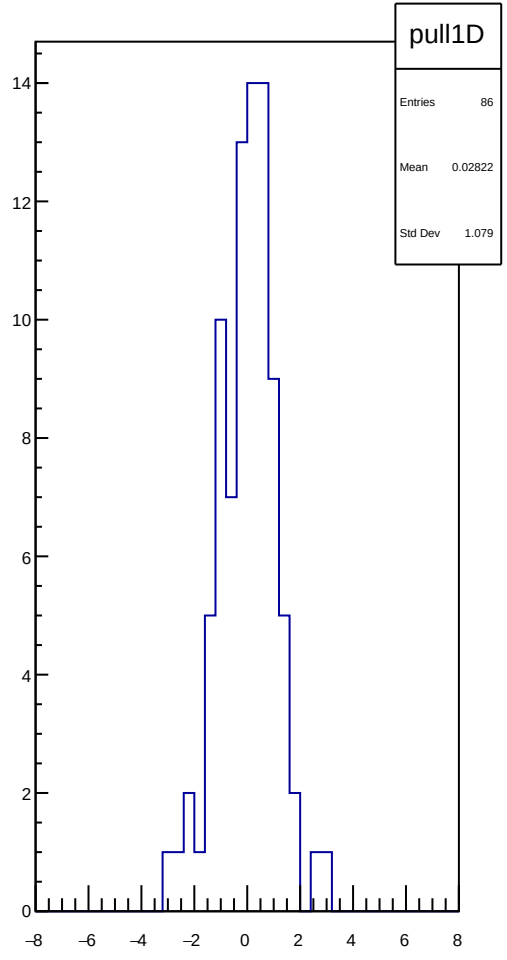

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.463e+04 / 85
p0 55.91 ± 0.04327
65
60
55
50
45
40


asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 89.75 / 85
p0 312.3 ± 415.3
pull
Entries 86
Mean 41.07
Std Dev 0


pull1D
Entries 86
Mean −0.01473
Std Dev 1.021


asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 8873 / 85
p0 380 ± 0.2936
440
420
400
380
360
340
320
300


cor_asym_sam_3726_avg_mean vs run
χ² / ndf 100.2 / 85
p0 68.26 ± 61.2
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 0.9068
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.02822
Std Dev 1.079
14
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10
8
6
4
2
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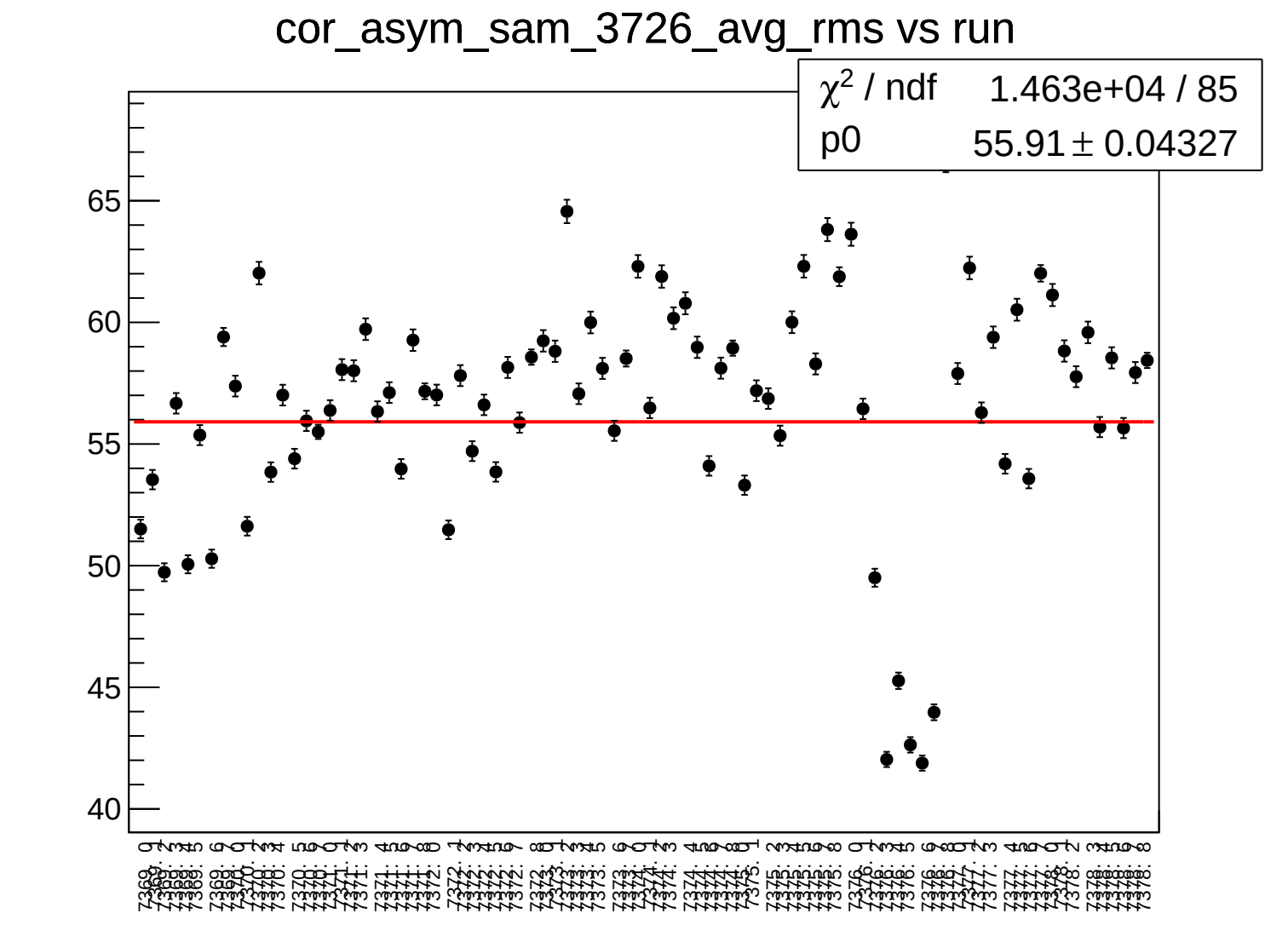
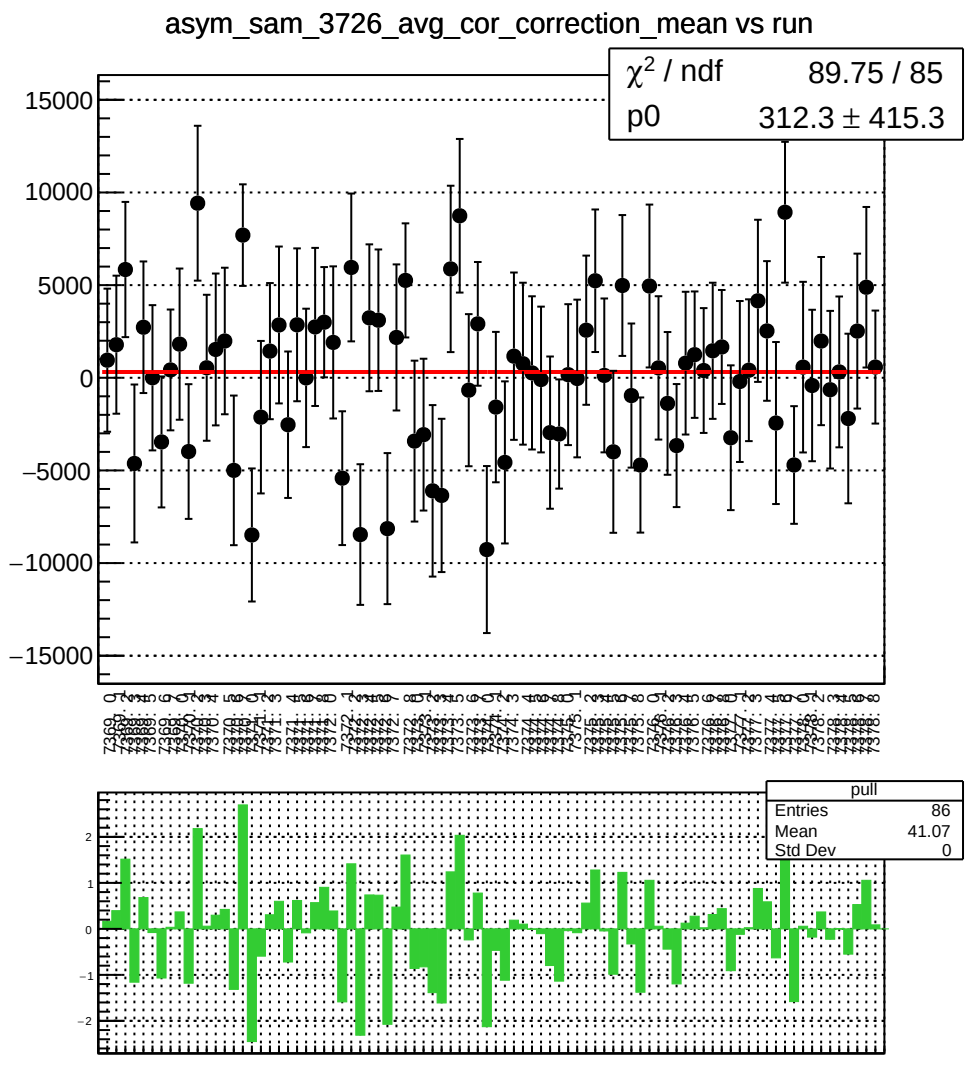
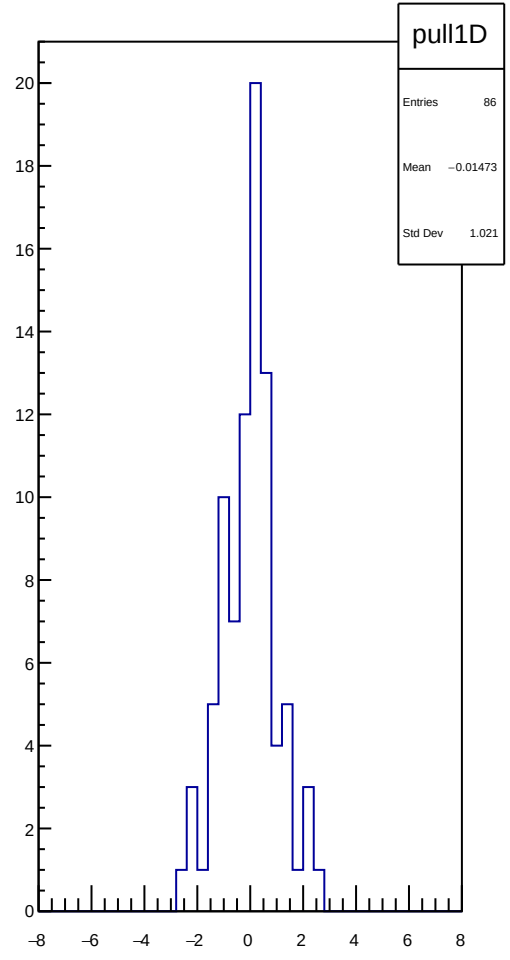
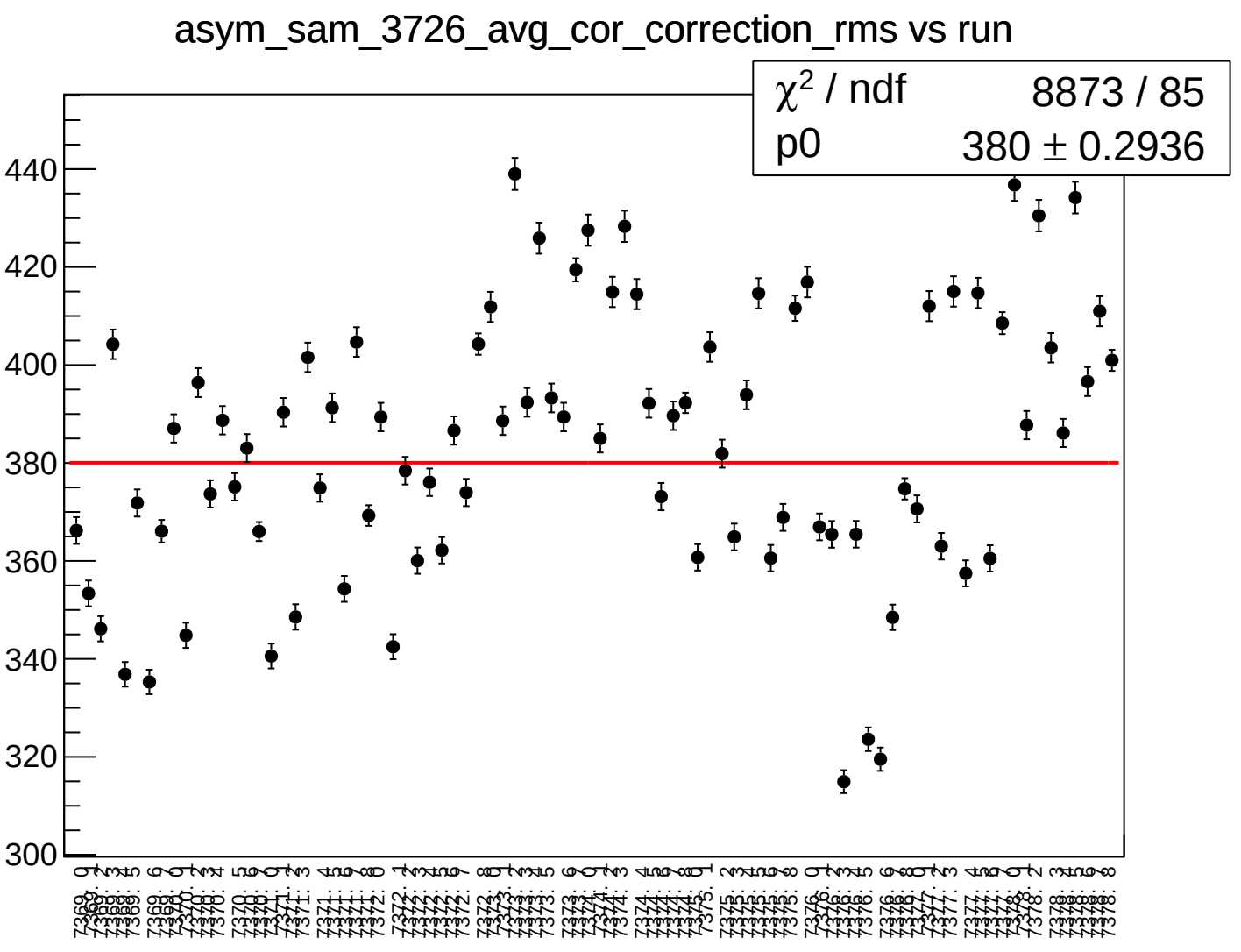
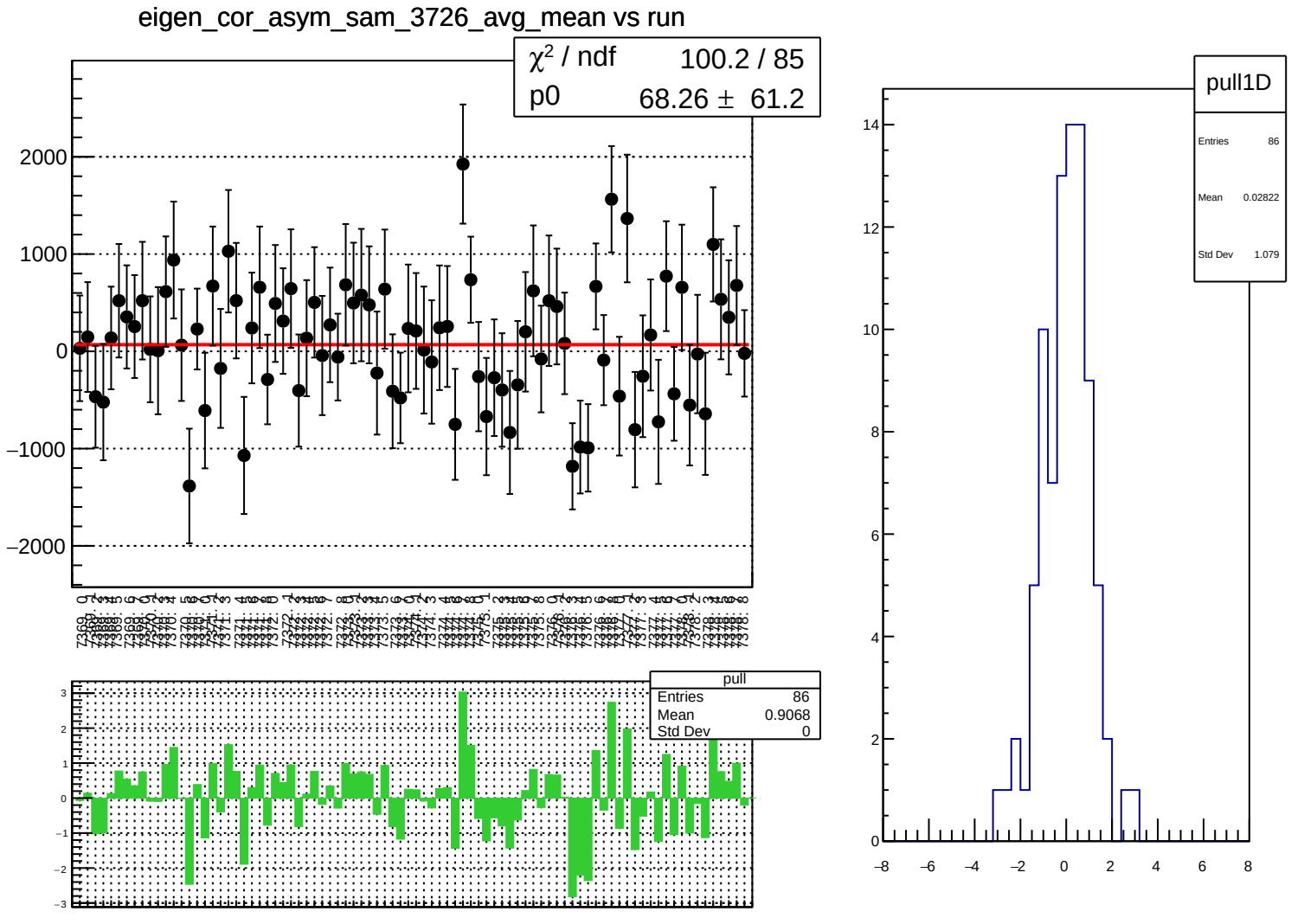
−8
−6
−4
−2
0
2
4
6
8

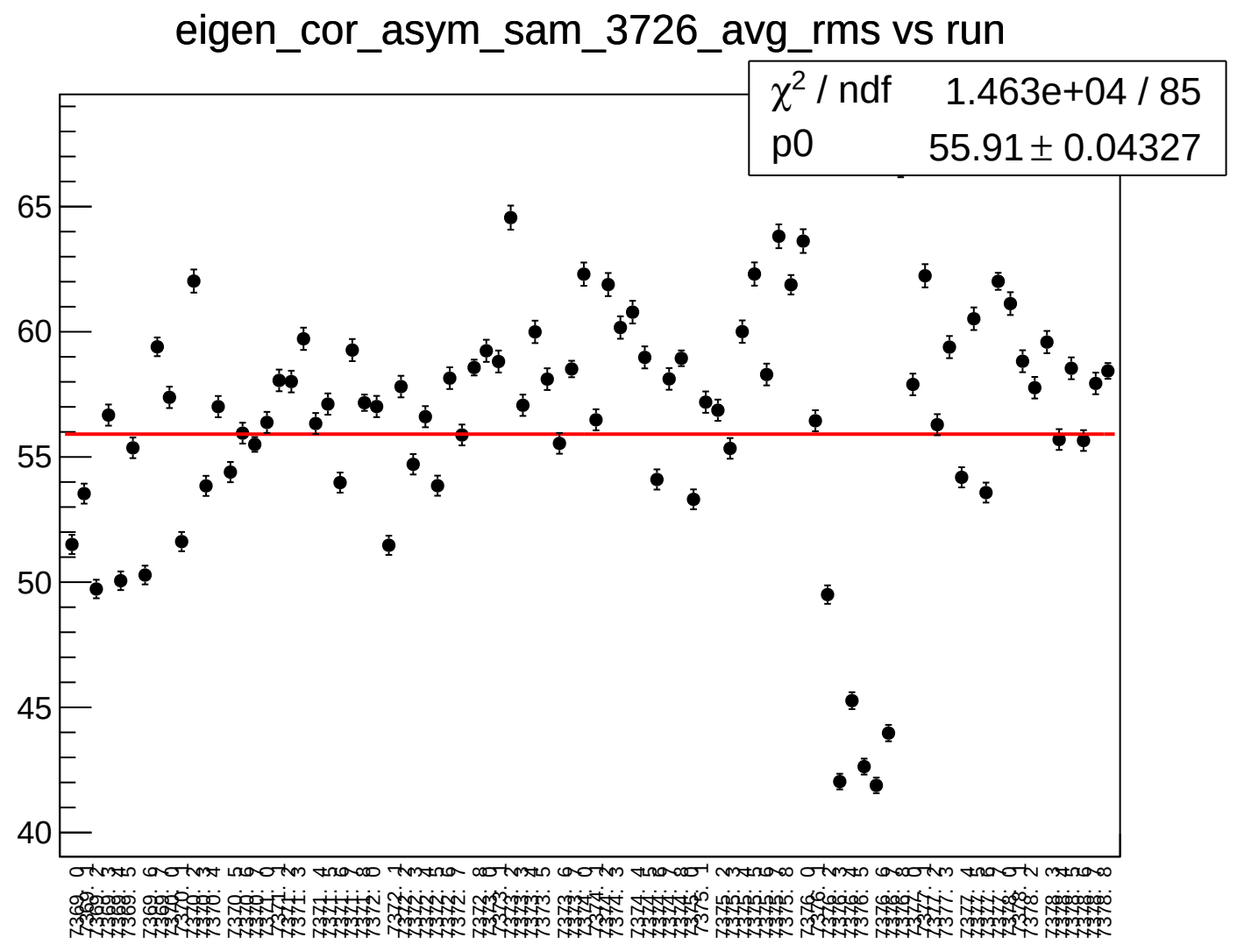

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.463e+04 / 85
p0 55.91 ± 0.04327
65
60
55
50
45
40

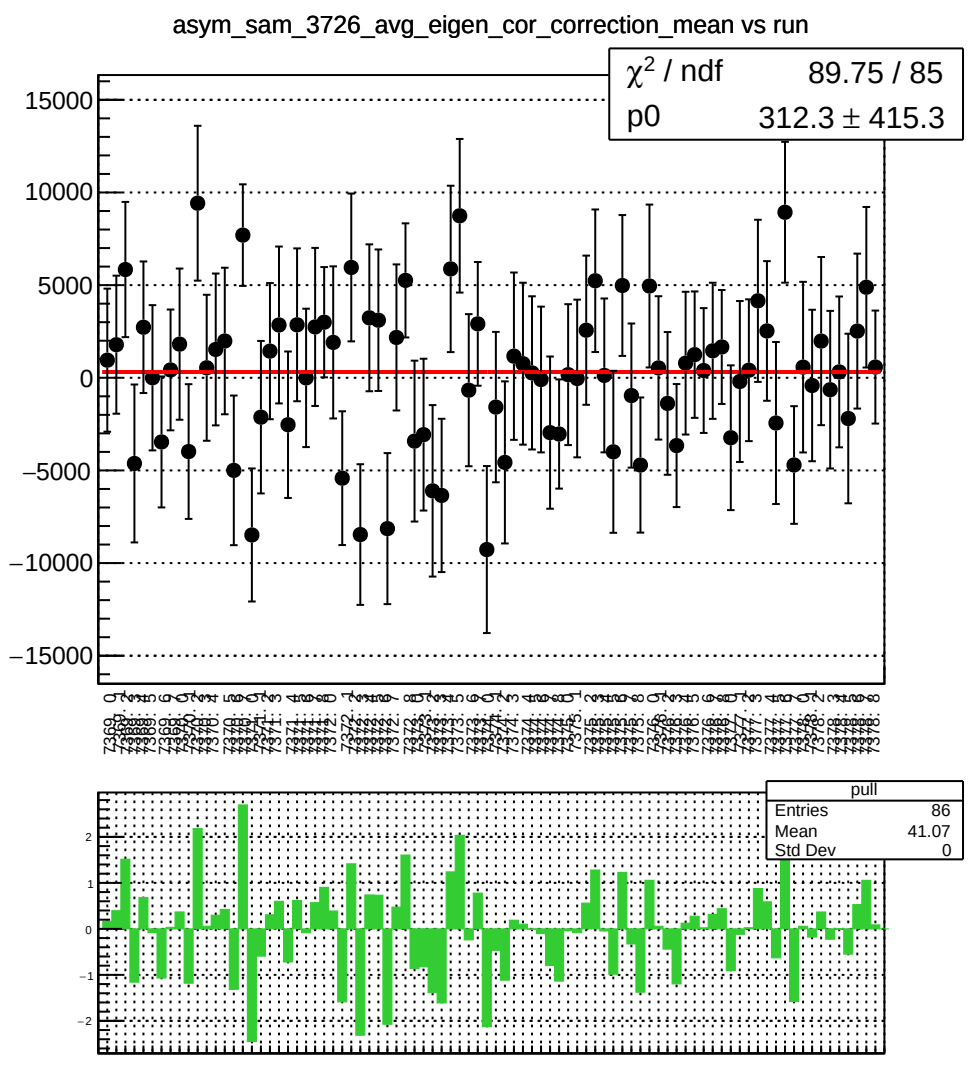

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 89.75 / 85
p0 312.3 ± 415.3
pull
Entries 86
Mean 41.07
Std Dev 0

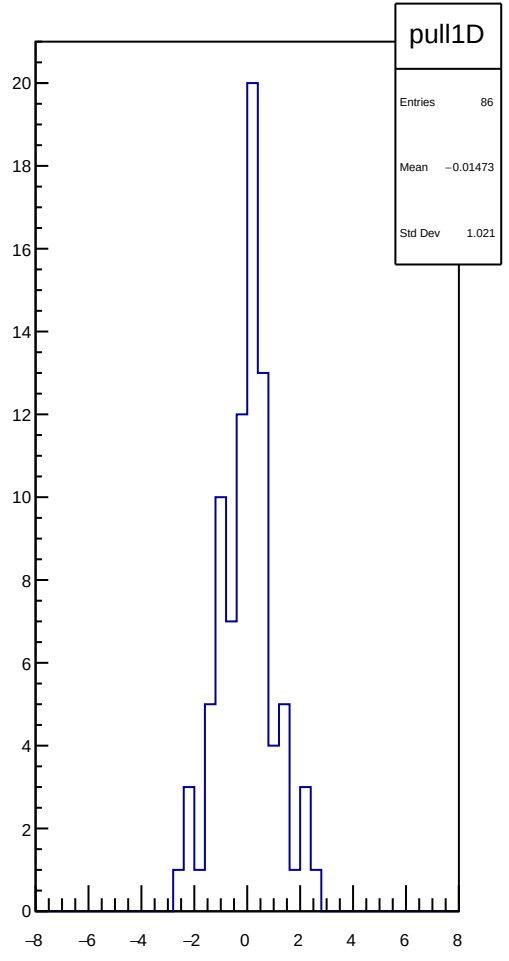

pull1D
Entries 86
Mean −0.01473
Std Dev 1.021


asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 8873 / 85
p0 380 ± 0.2936
440
420
400
380
360
340
320
300


eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 100.2 / 85
p0 68.26 ± 61.2
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 0.9068
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.02822
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.463e+04 / 85
p0 55.91 ± 0.04327
65
60
55
50
45
40


asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.75 / 85
p0 312.3 ± 415.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 41.07
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.01473
Std Dev 1.021
20
18
16
14
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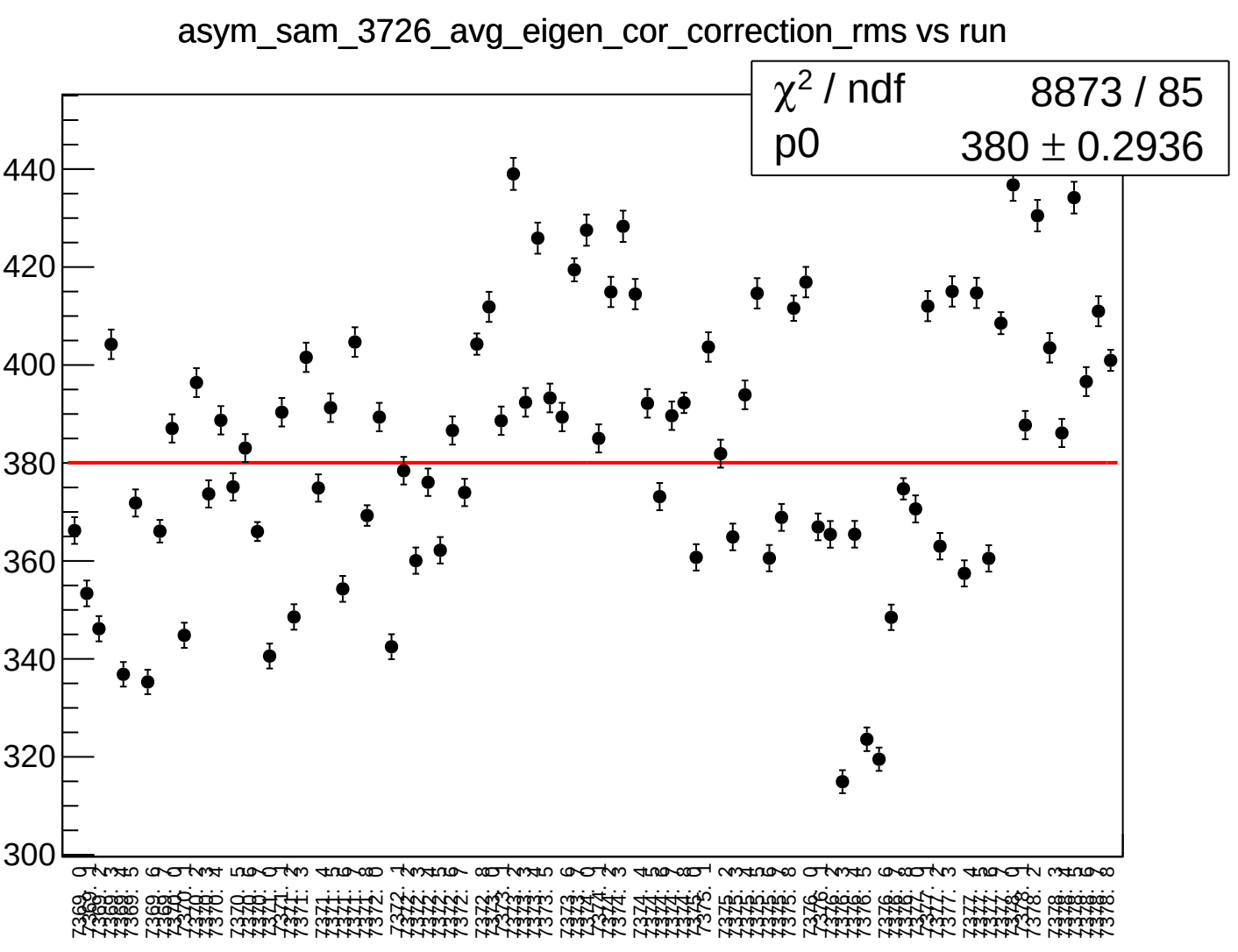
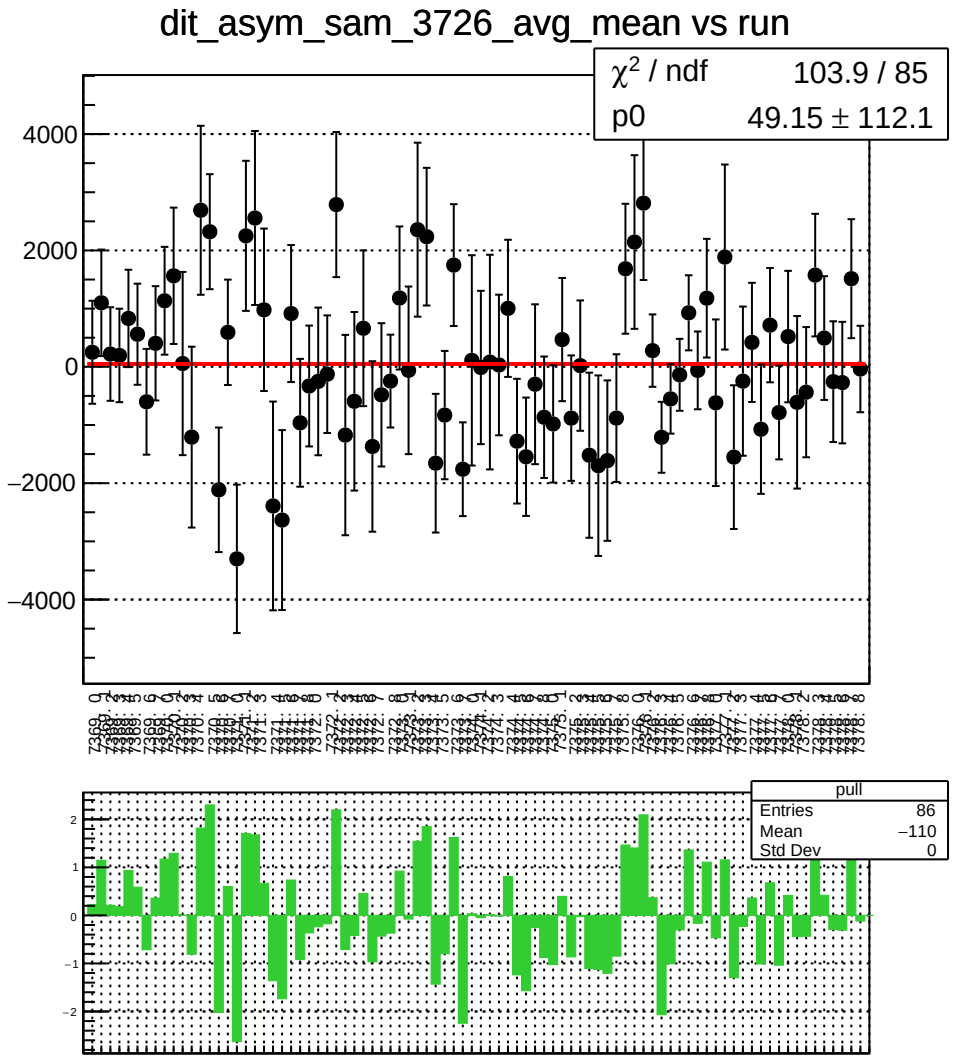
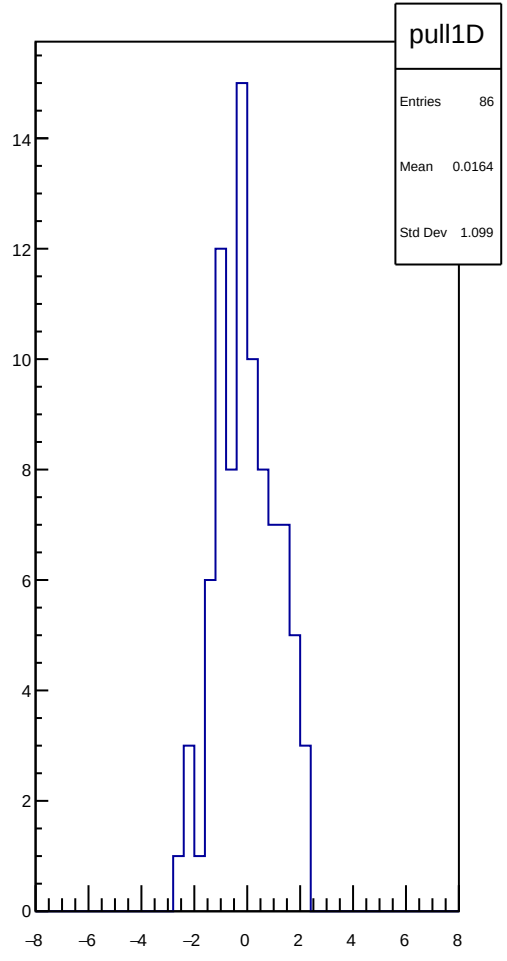
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 8873 / 85
p0 380 ± 0.2936
440
420
400
380
360
340
320
300


dit_asym_sam_3726_avg_mean vs run
χ² / ndf 103.9 / 85
p0 49.15 ± 112.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −110
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.0164
Std Dev 1.099
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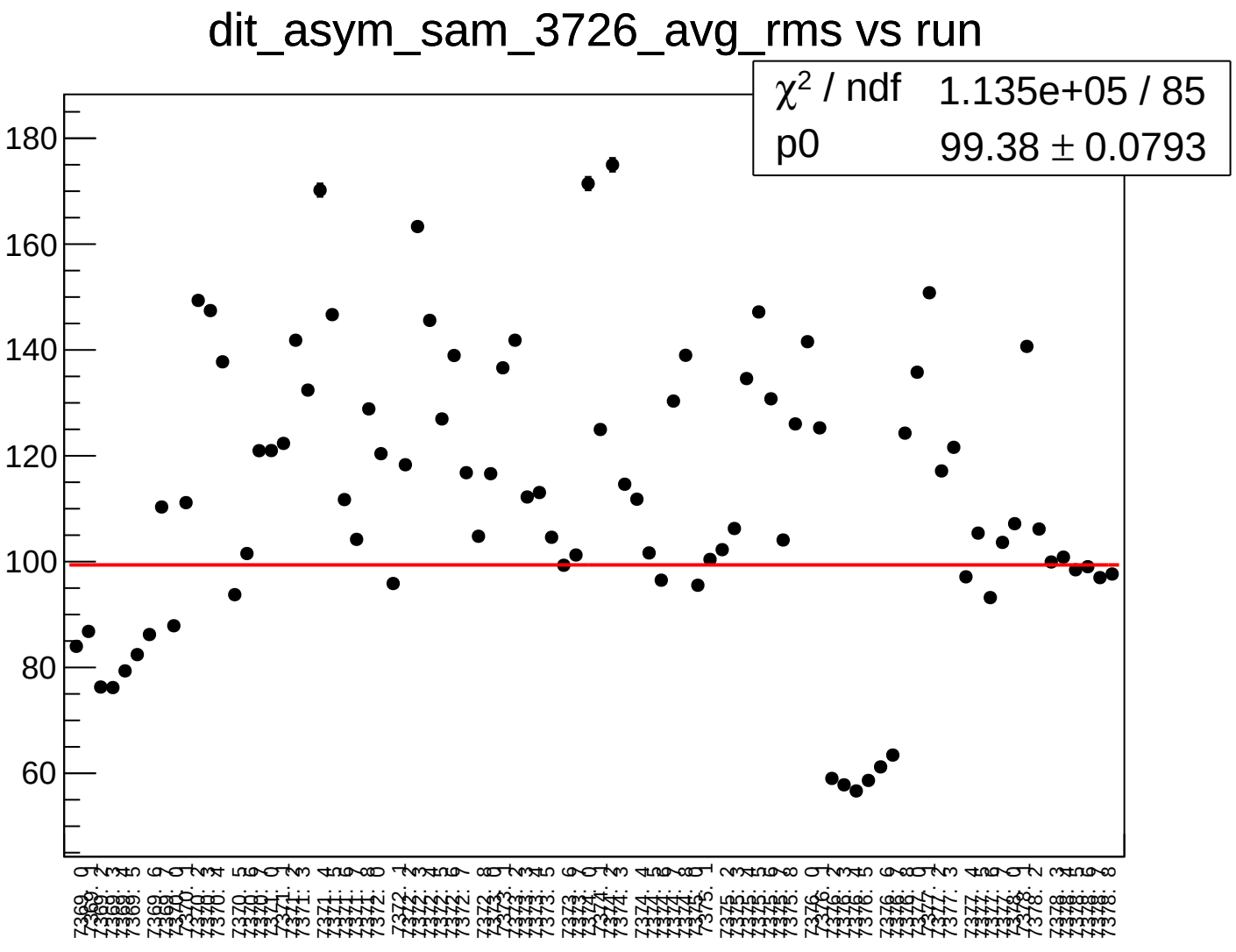
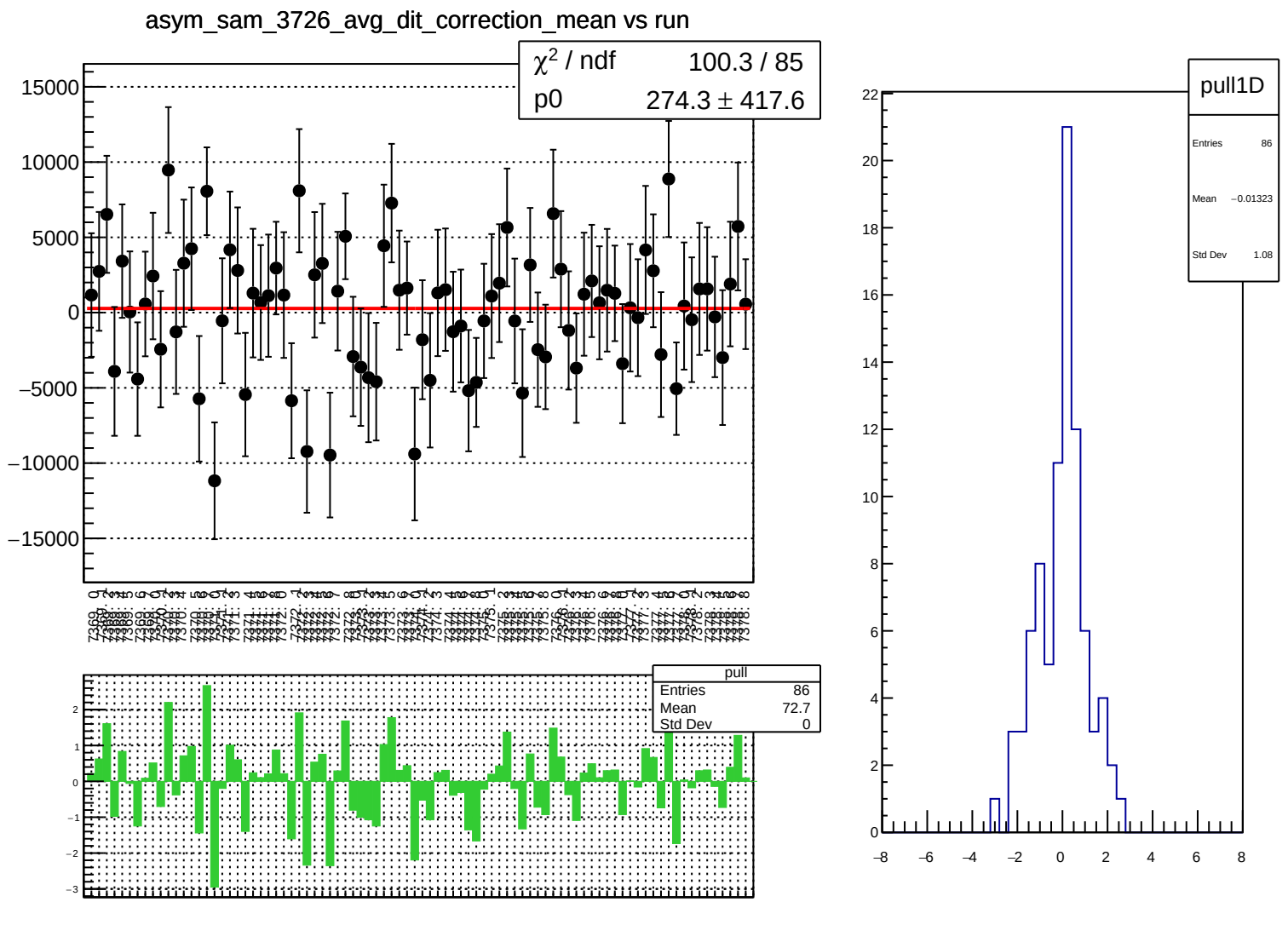
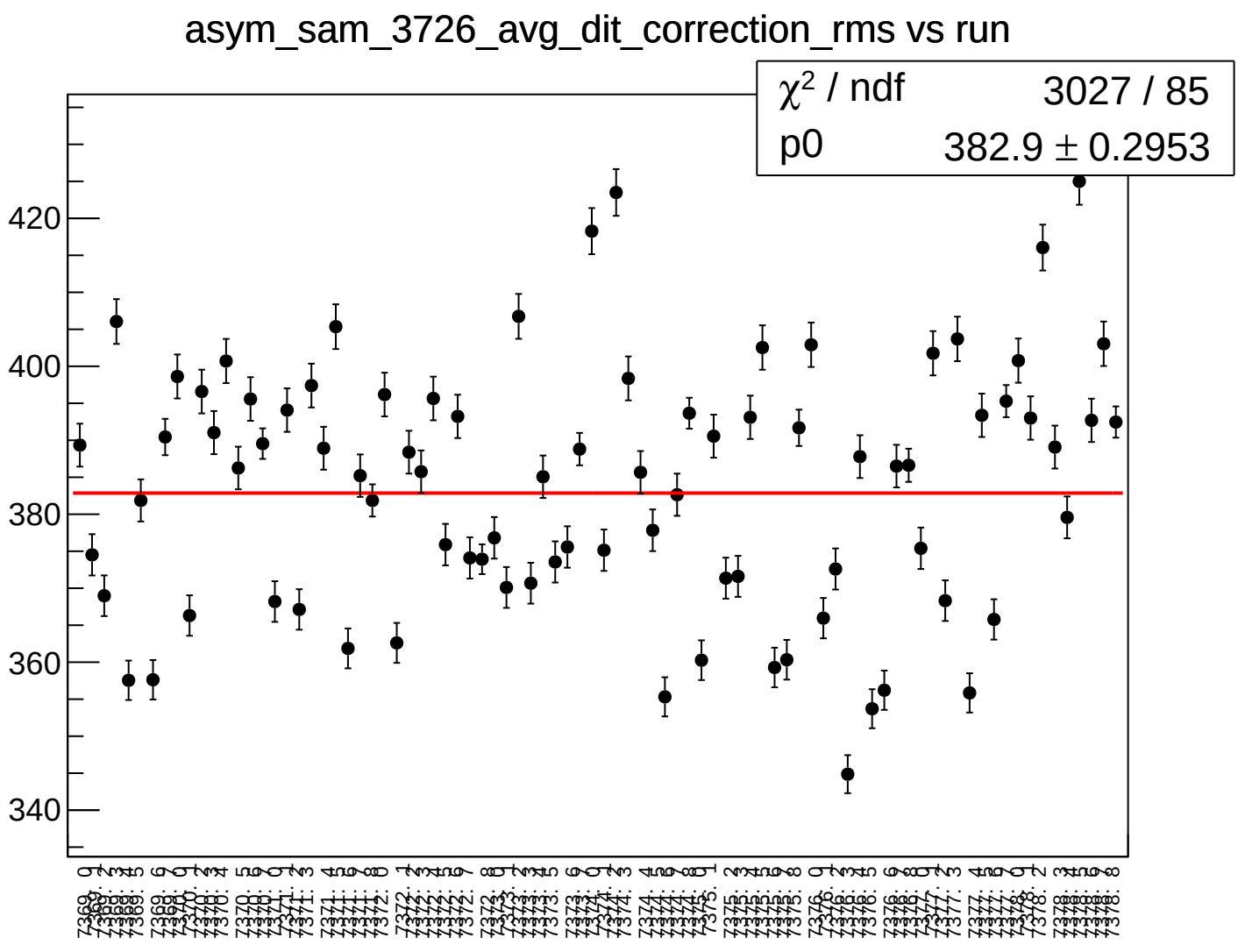
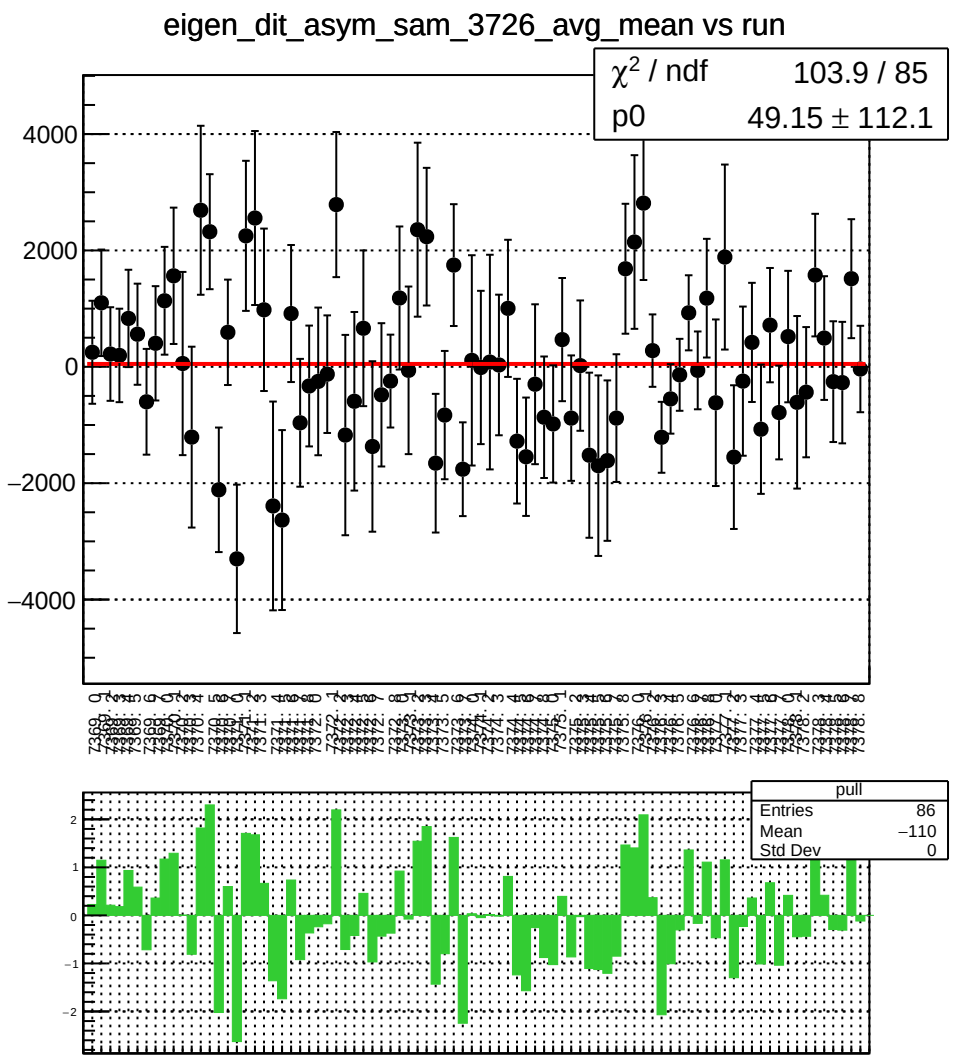
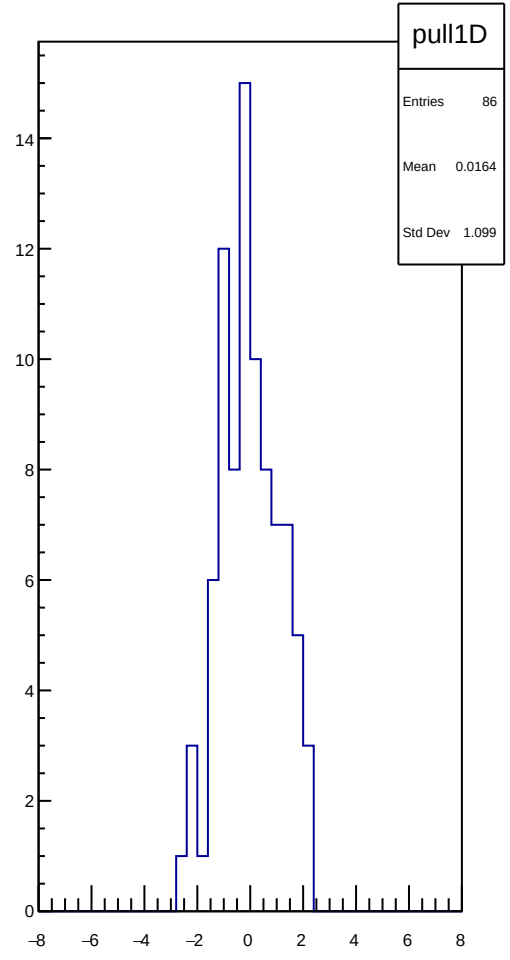
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

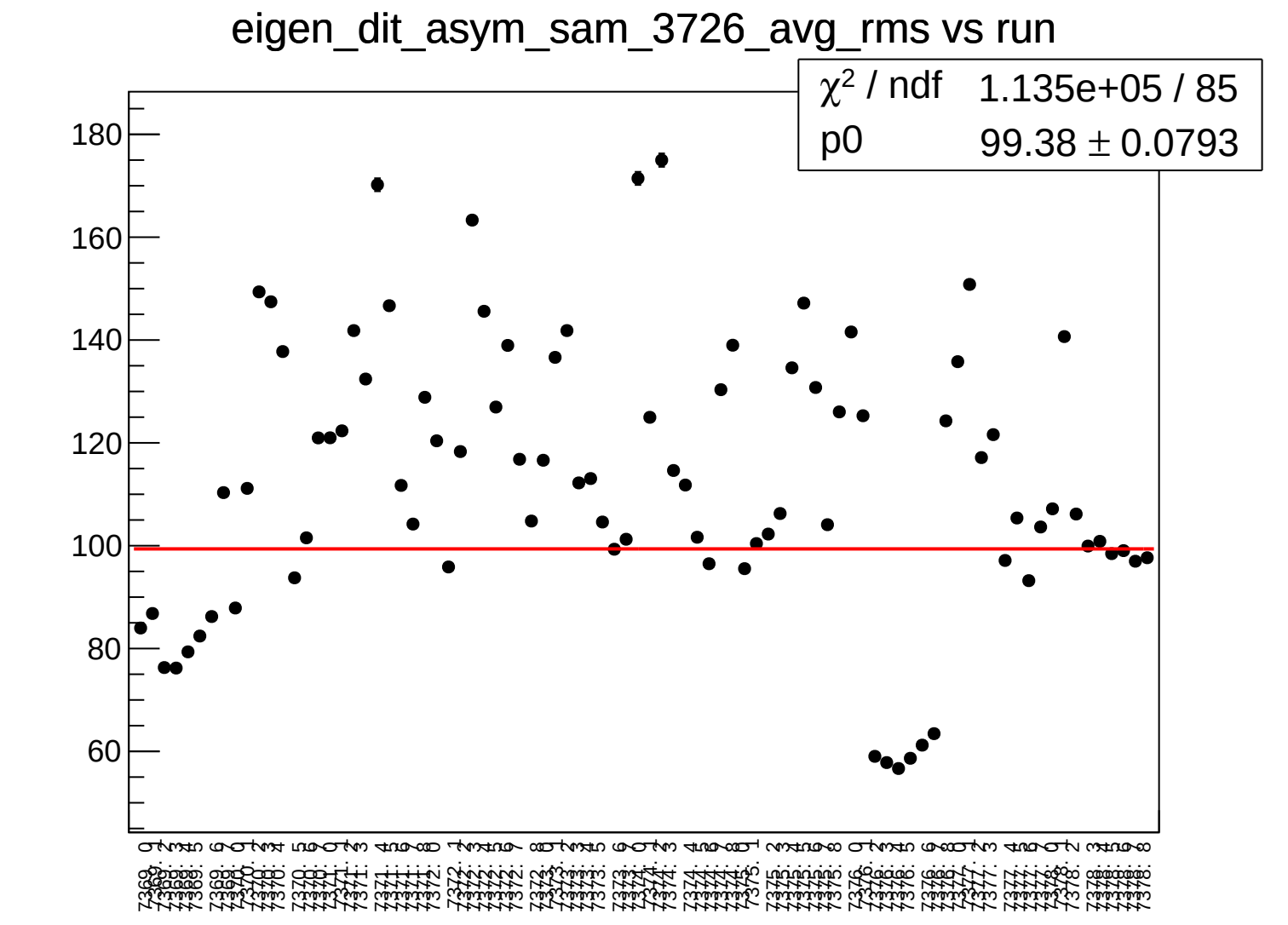

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.135e+05 / 85
p0 99.38 ± 0.0793
180
160
140
120
100
80
60

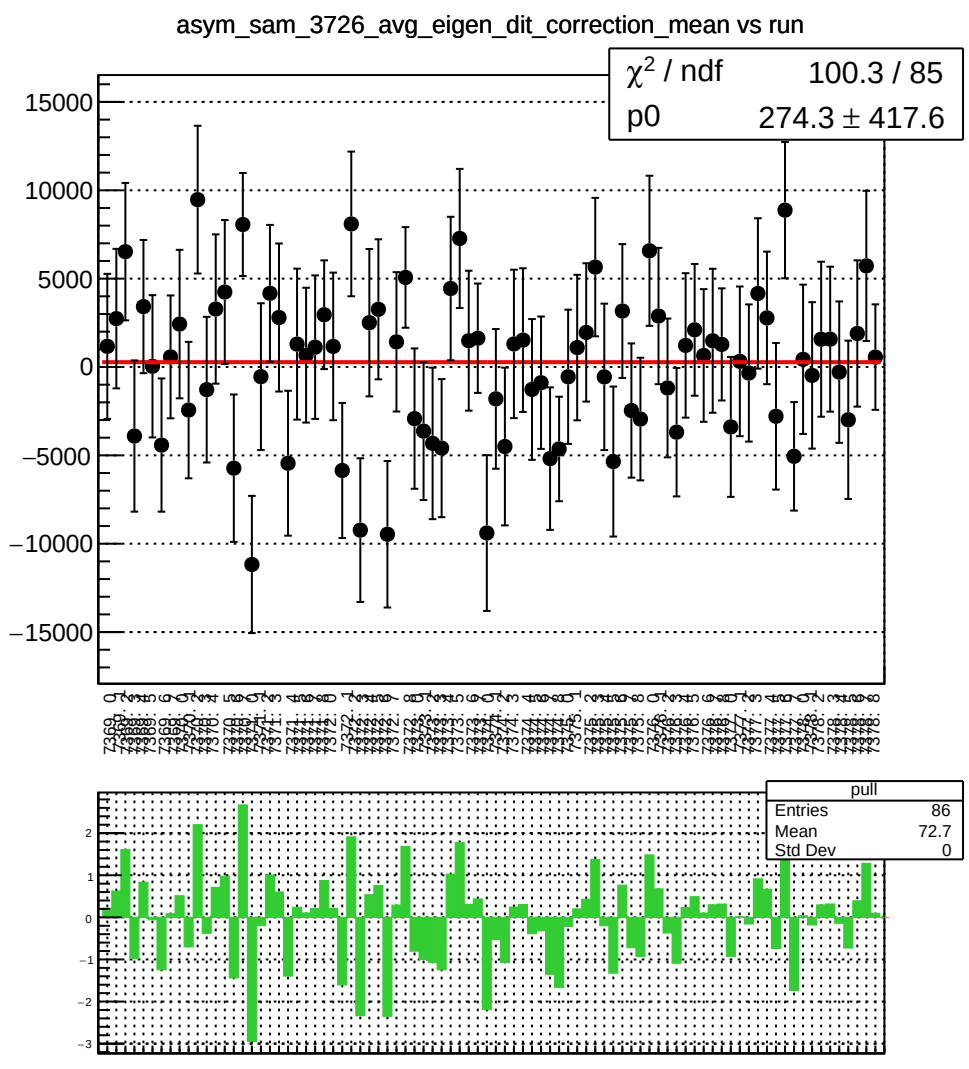

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 100.3 / 85
p0 274.3 ± 417.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 72.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01323
Std Dev 1.08
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

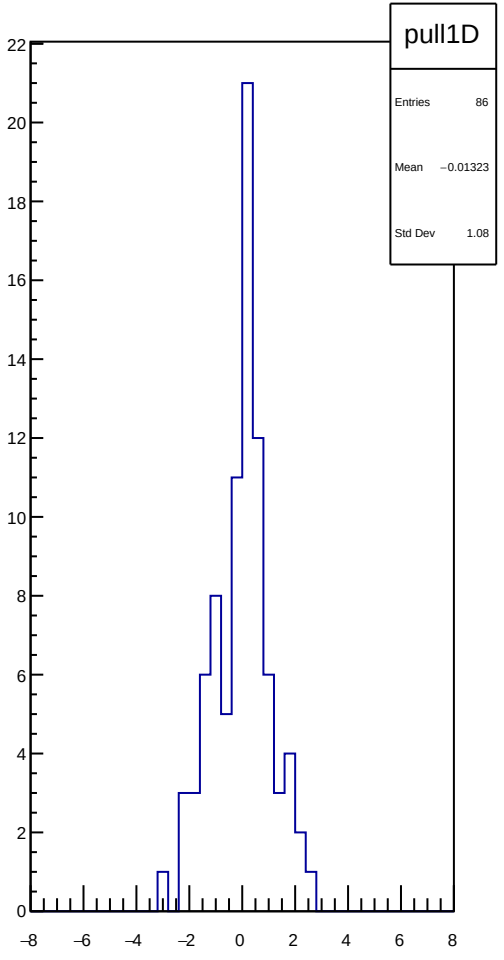

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3027 / 85
p0 382.9 ± 0.2953
420
400
380
360
340

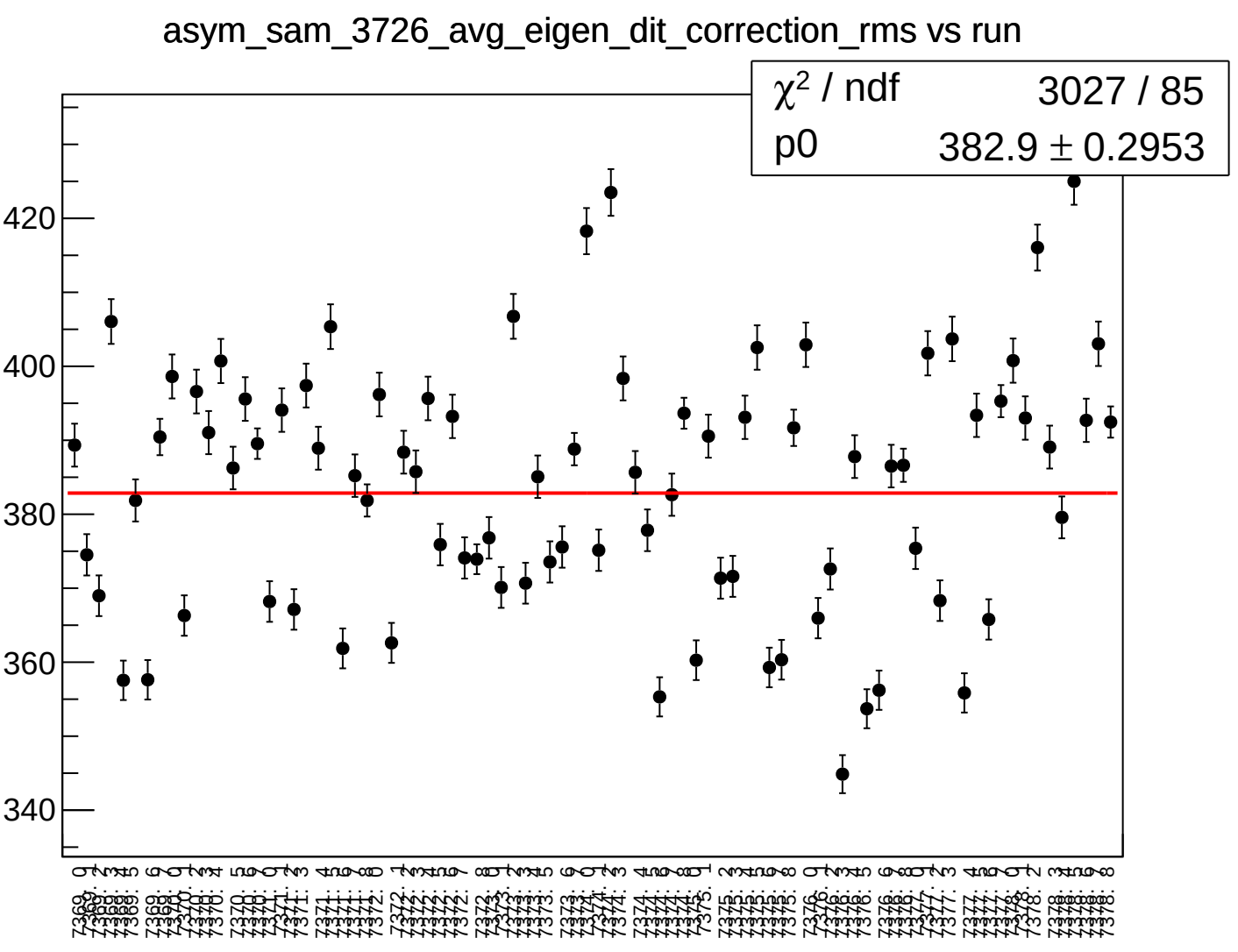

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 103.9 / 85
p0 49.15 ± 112.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −110
Std Dev 0
2
1
0
−1
−2

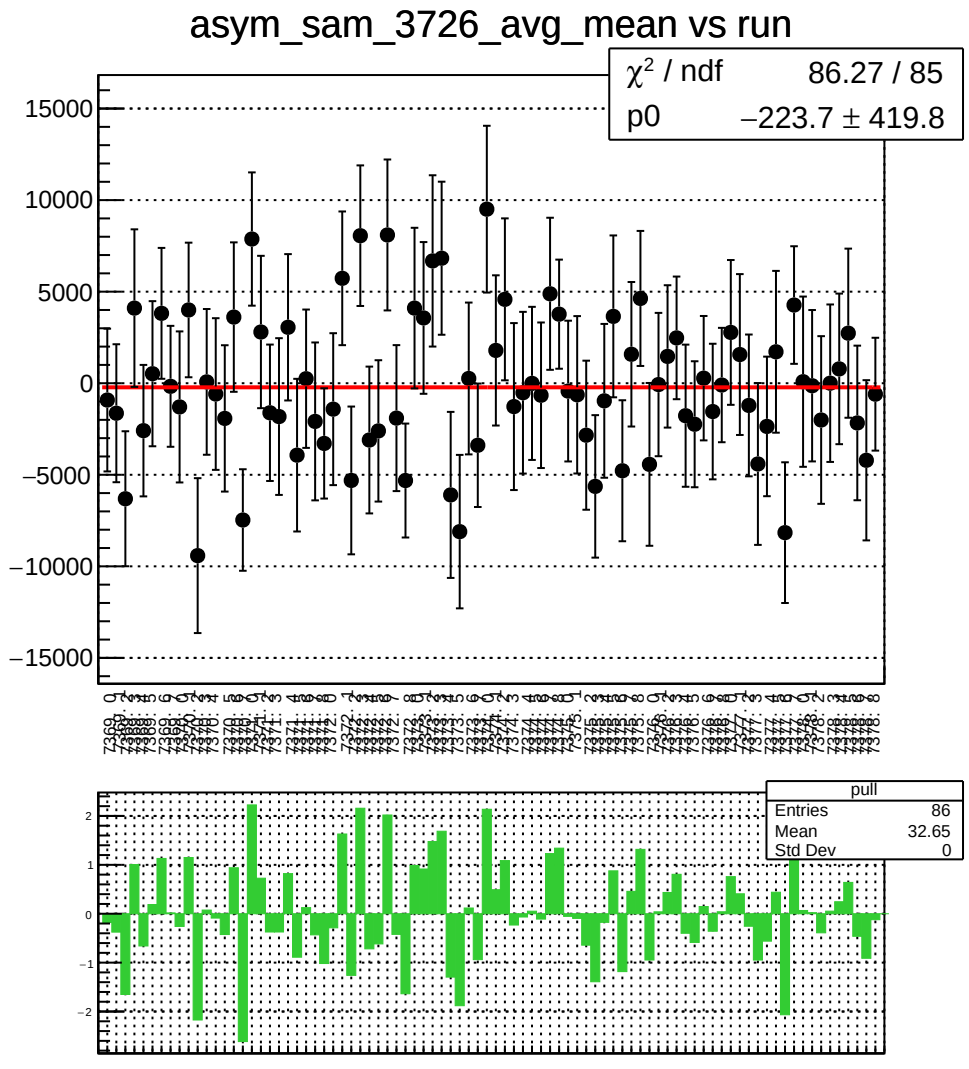

pull1D
Entries 86
Mean 0.0164
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

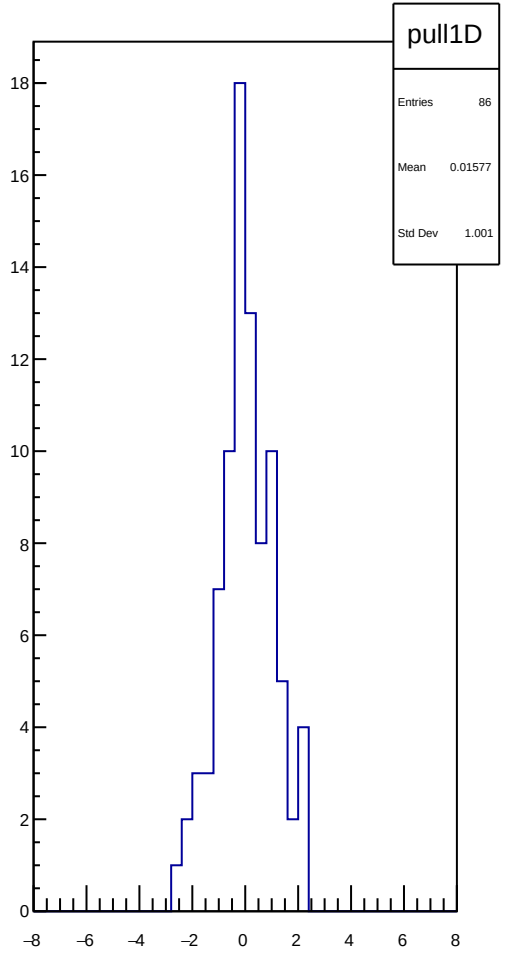

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.135e+05 / 85
p0 99.38 ± 0.0793
180
160
140
120
100
80
60

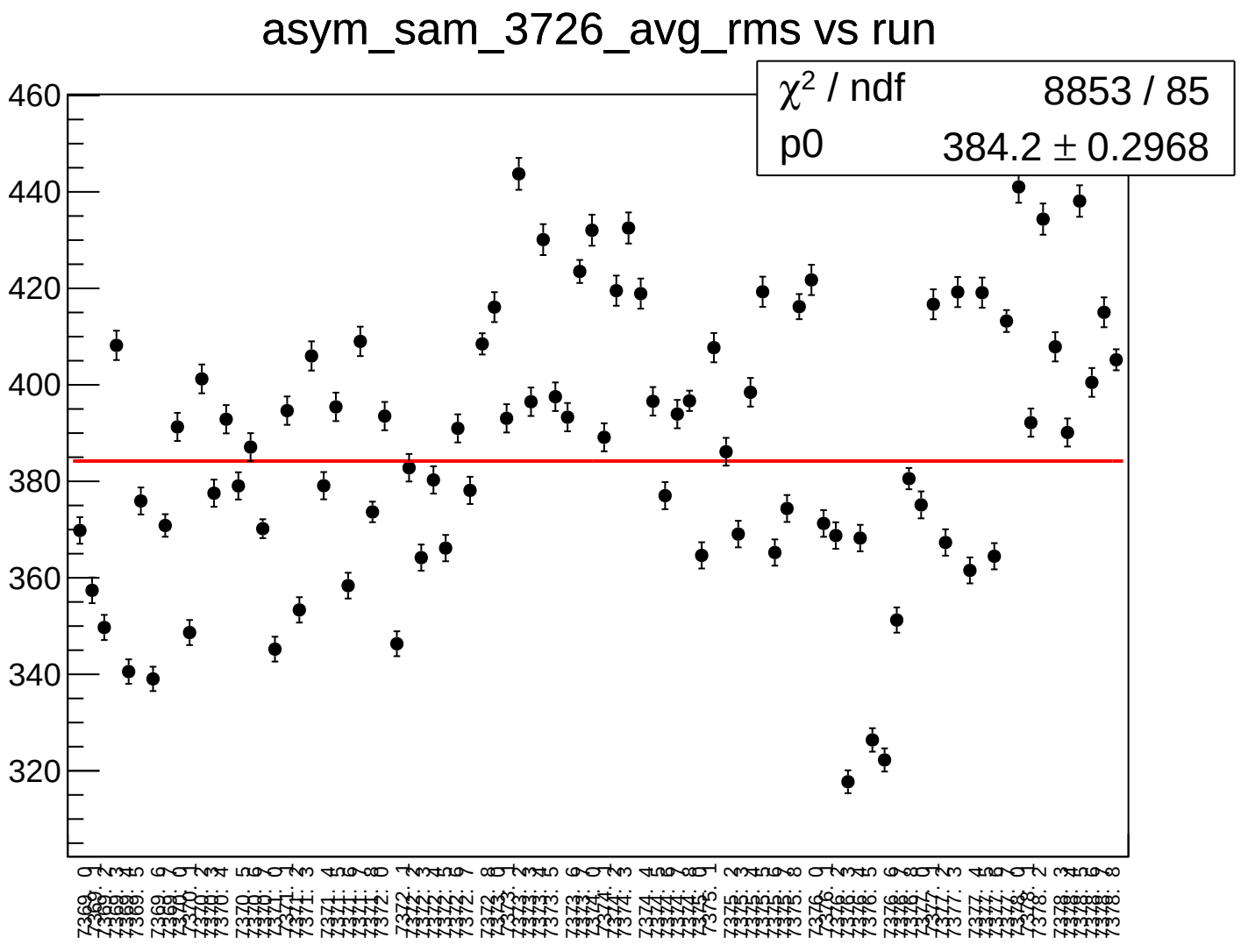

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.3 / 85
p0 274.3 ± 417.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 72.7
Std Dev 0
2
1
0
−1
−2
−3

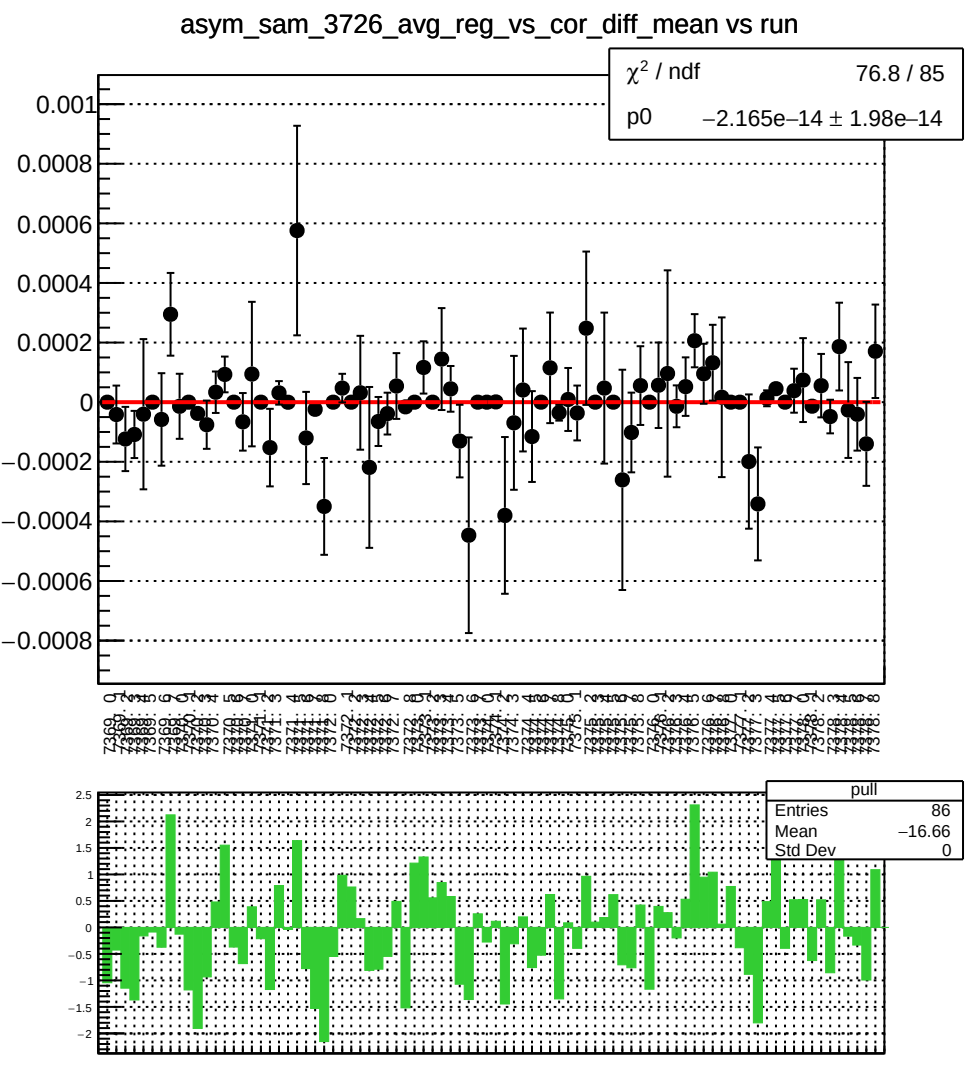

pull1D
Entries 86
Mean −0.01323
Std Dev 1.08
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

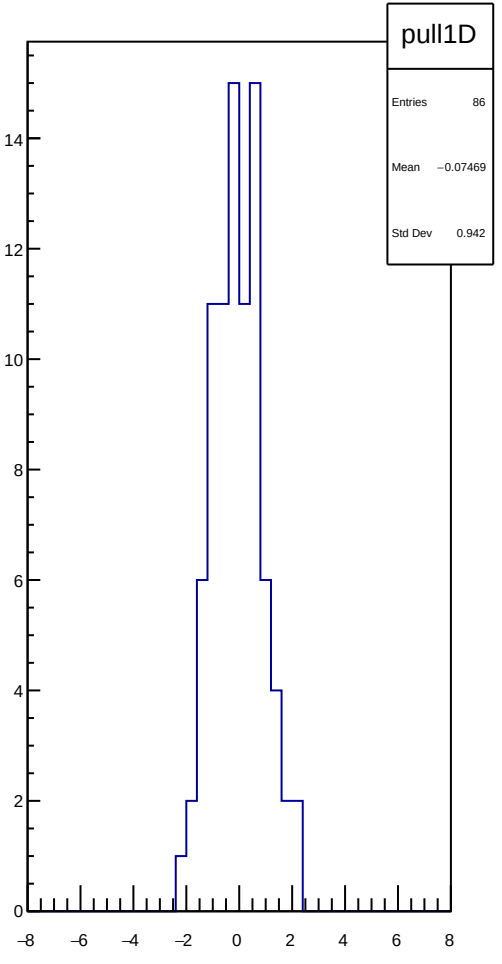

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3027 / 85
p0 382.9 ± 0.2953
420
400
380
360
340

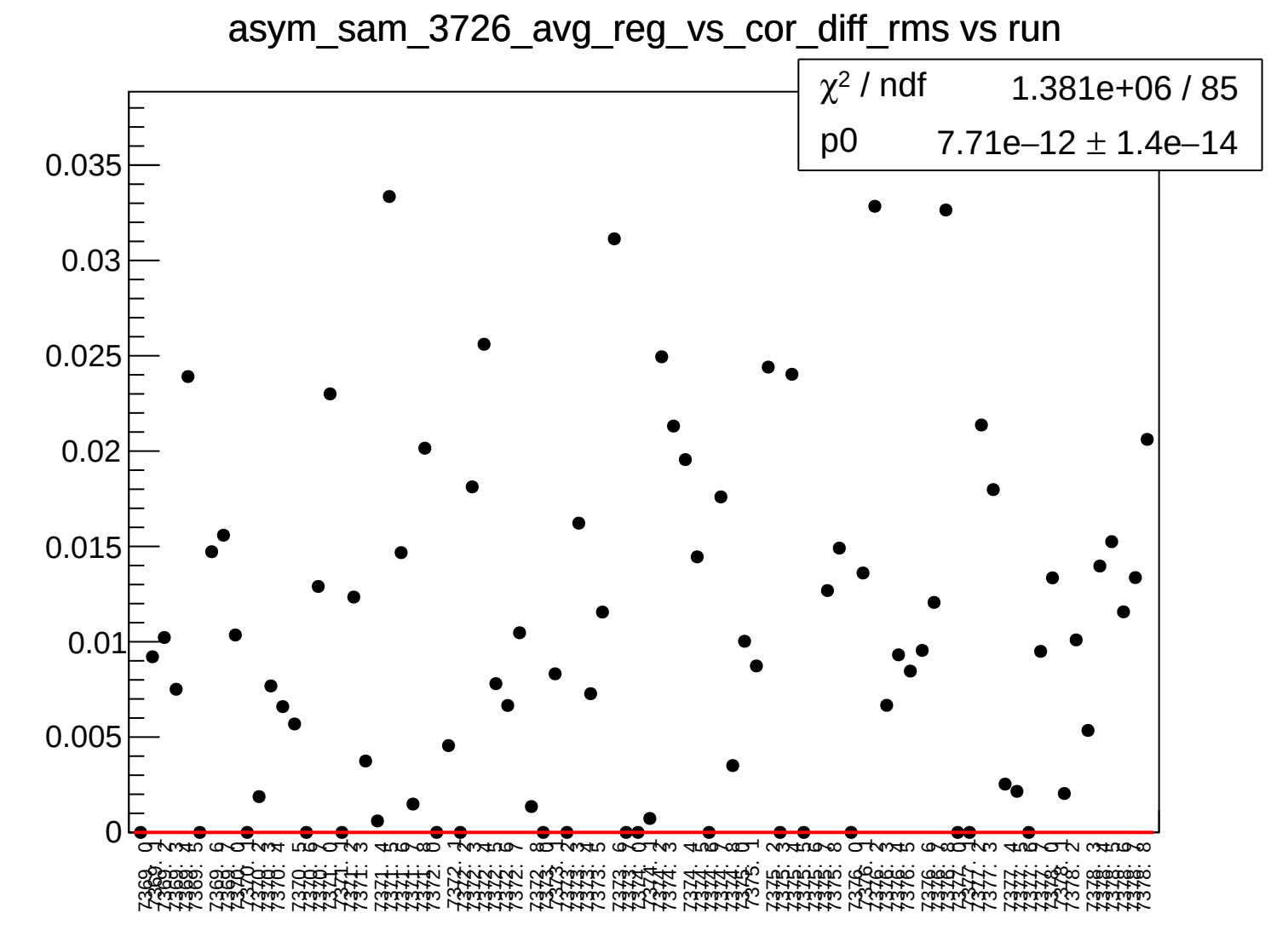

asym_sam_3726_avg_mean vs run
χ² / ndf 86.27 / 85
p0 −223.7 ± 419.8
pull
Entries 86
Mean 32.65
Std Dev 0

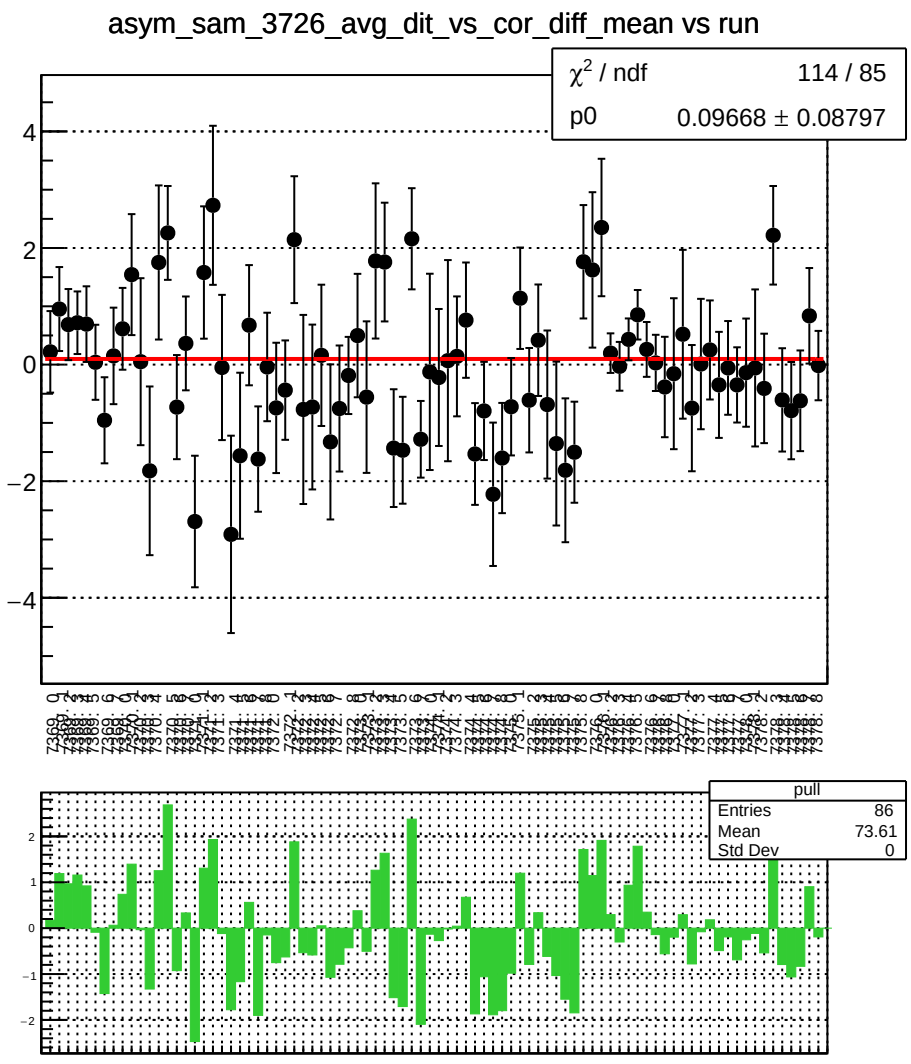

pull1D
Entries 86
Mean 0.01577
Std Dev 1.001

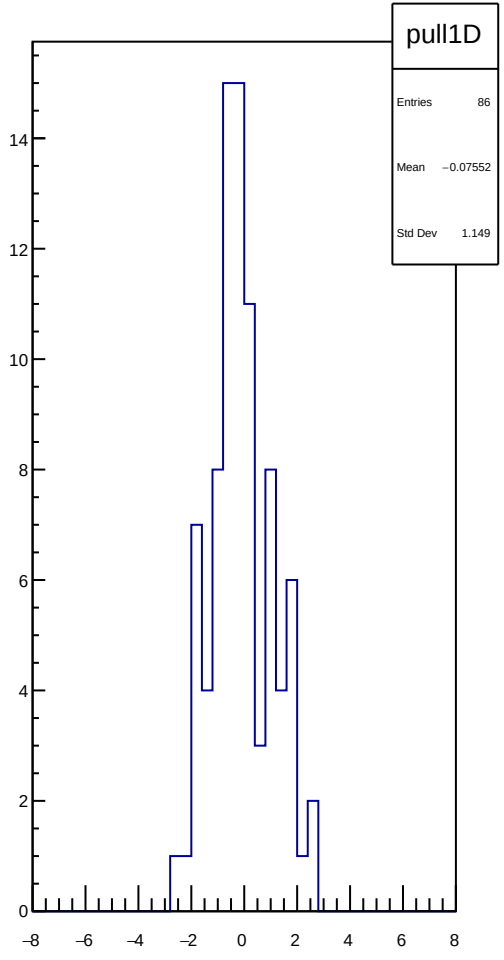

asym_sam_3726_avg_rms vs run
χ^2 / ndf 8853 / 85
p0 384.2 ± 0.2968
460
440
420
400
380
360
340
320

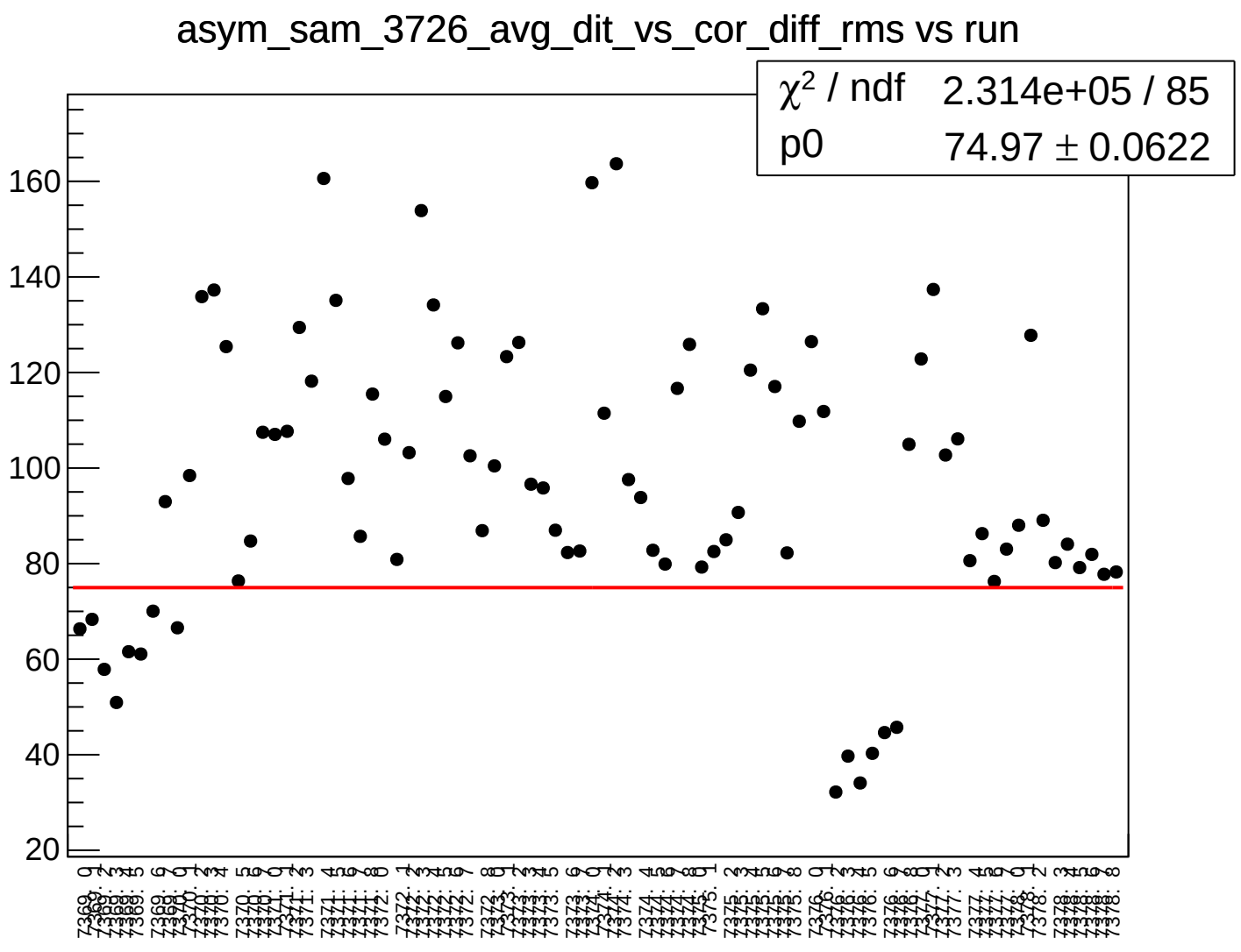

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.8 / 85
p0 −2.165e−14 ± 1.98e−14
pull
Entries 86
Mean −16.66
Std Dev 0

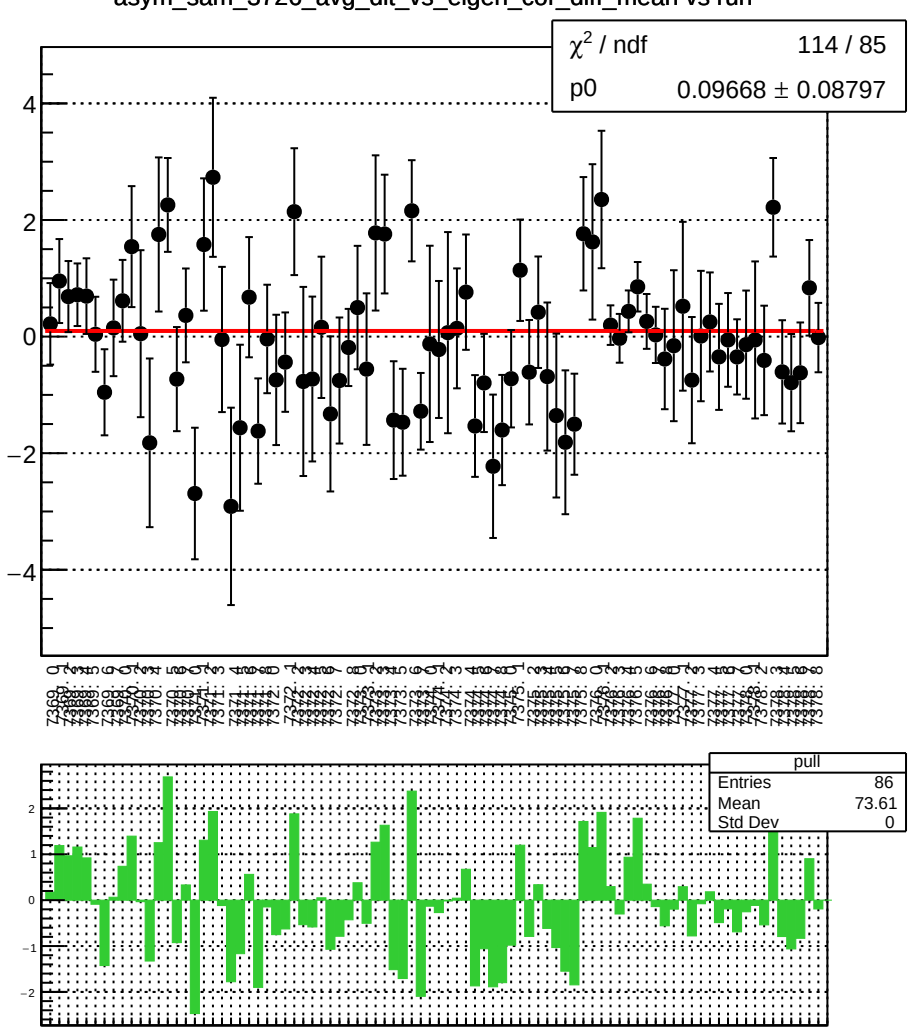

pull1D
Entries 86
Mean −0.07469
Std Dev 0.942

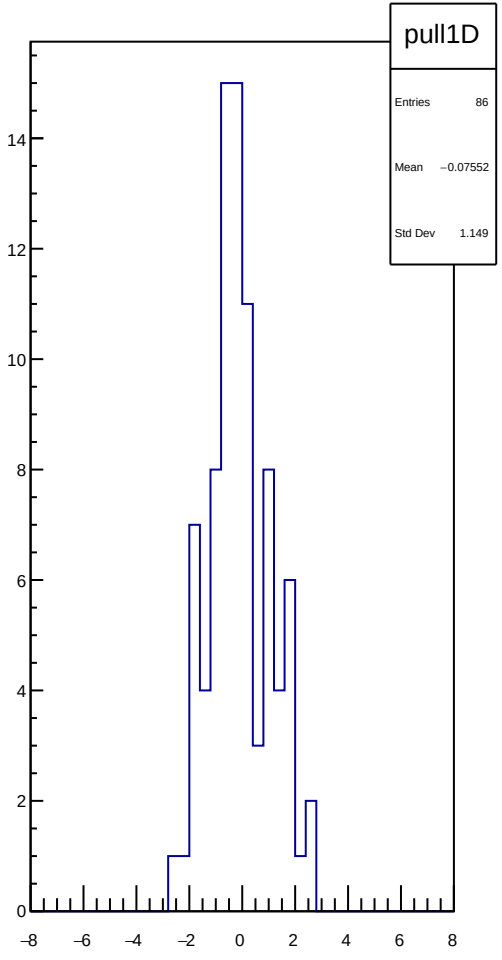

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.381e+06 / 85
p0 7.71e−12 ± 1.4e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

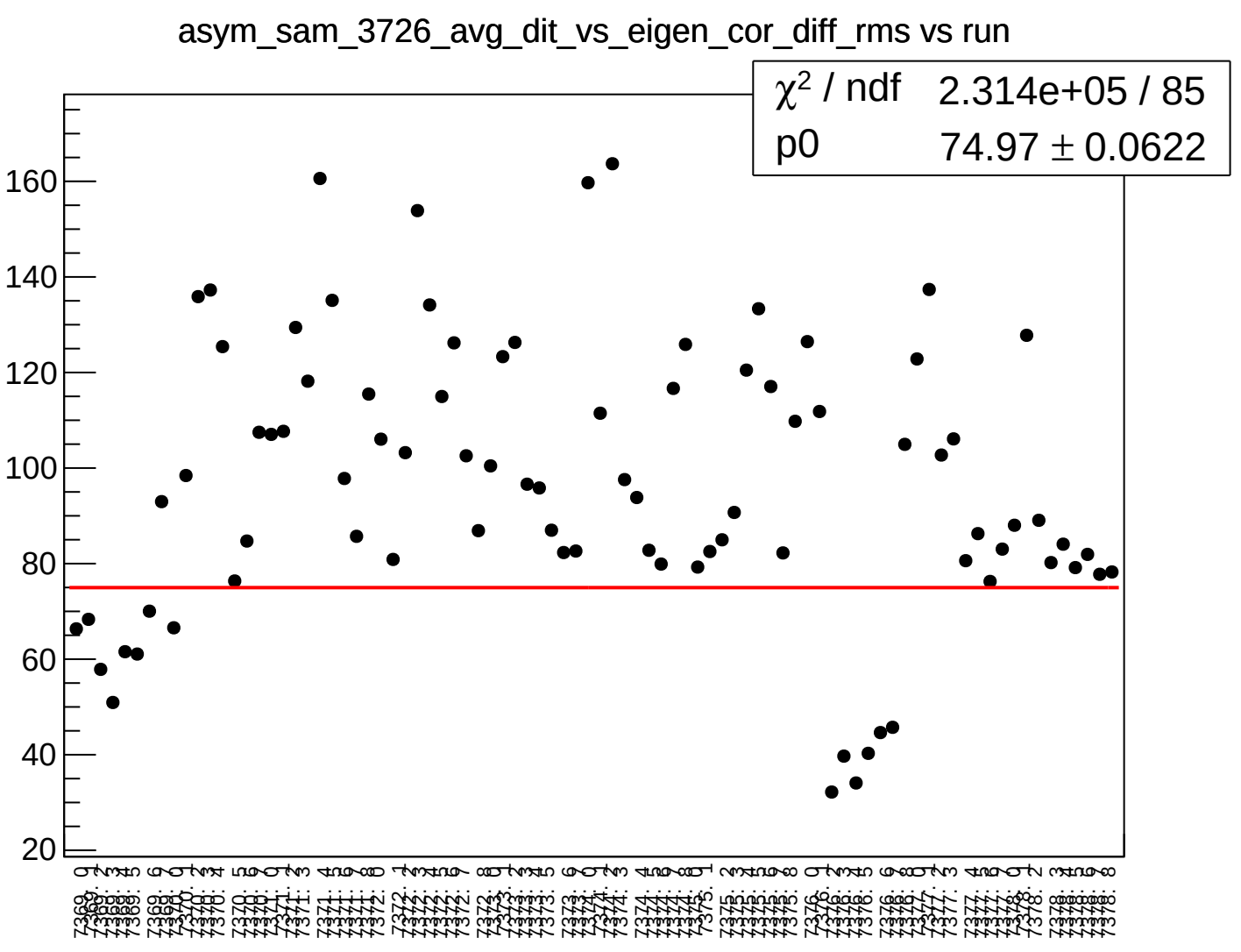

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 114 / 85
p0 0.09668 ± 0.08797
pull
Entries 86
Mean 73.61
Std Dev 0

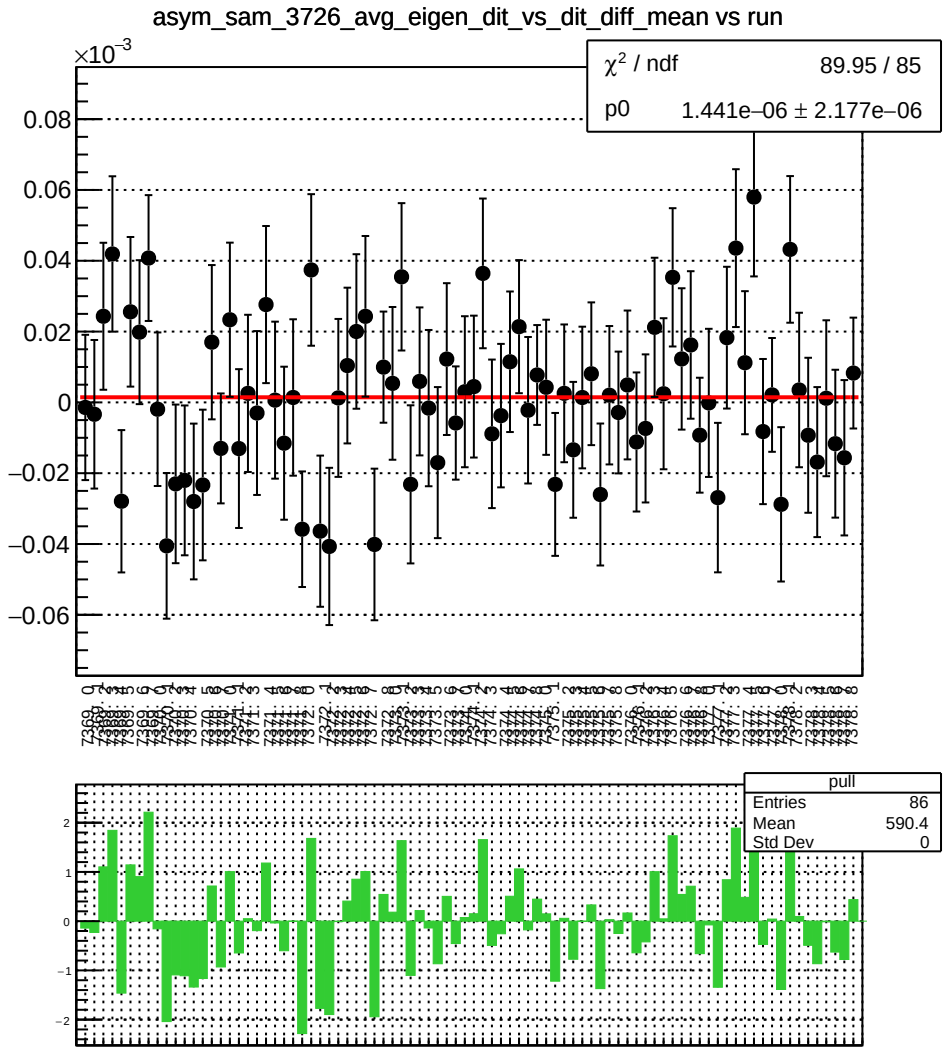

pull1D
Entries 86
Mean −0.07552
Std Dev 1.149

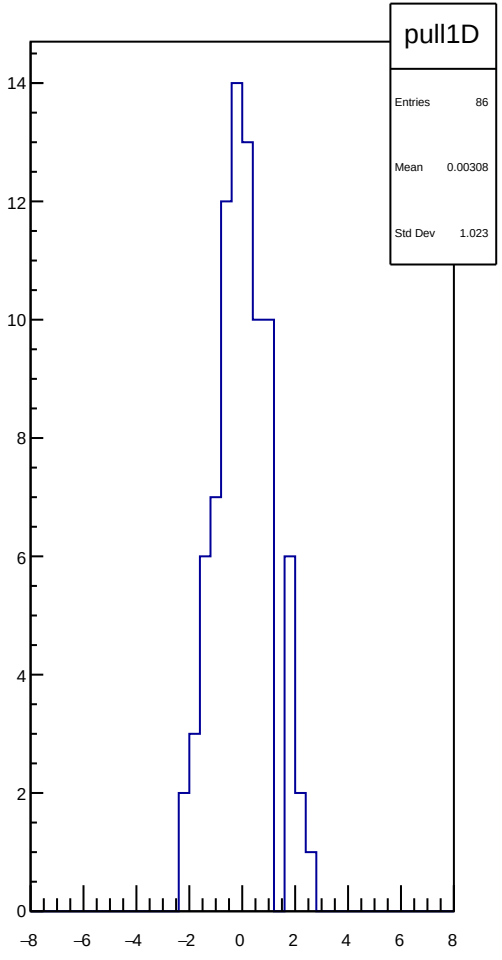

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.314e+05 / 85
p0 74.97 ± 0.0622
160
140
120
100
80
60
40
20


asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114 / 85
p0 0.09668 ± 0.08797
pull
Entries 86
Mean 73.61
Std Dev 0


pull1D
Entries 86
Mean −0.07552
Std Dev 1.149


asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.314e+05 / 85
p0 74.97 ± 0.0622
160
140
120
100
80
60
40
20


asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.95 / 85
p0 1.441e−06 ± 2.177e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 590.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.00308
Std Dev 1.023
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10
8
6
4
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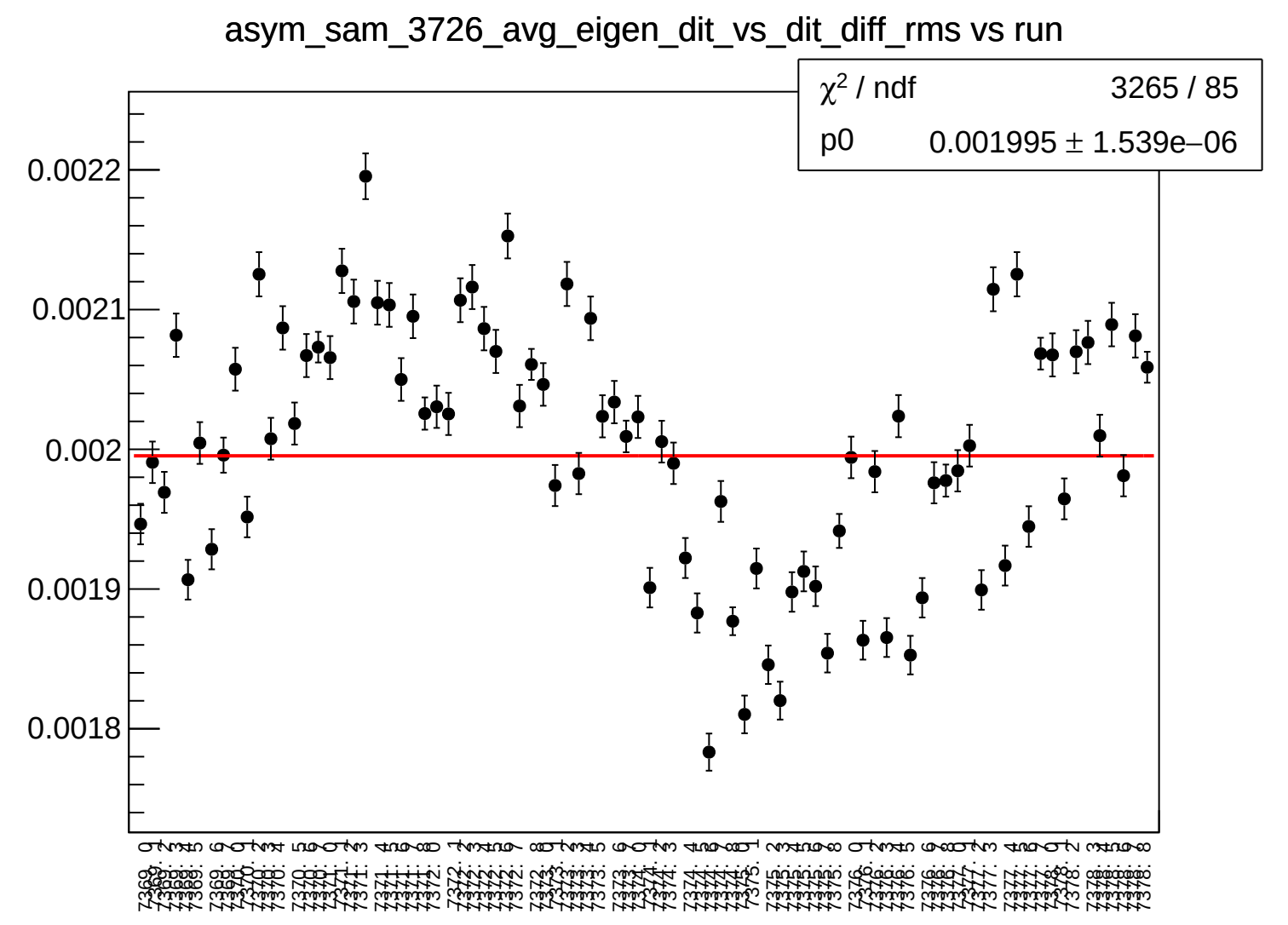
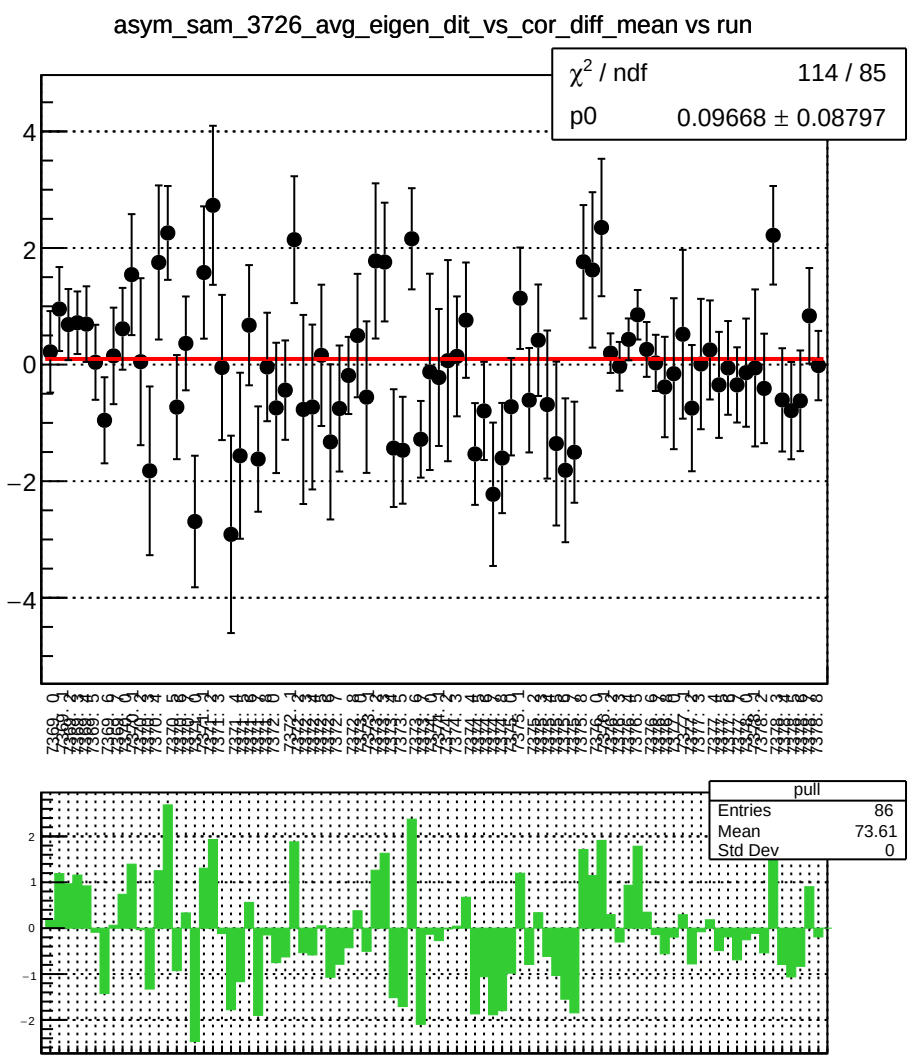
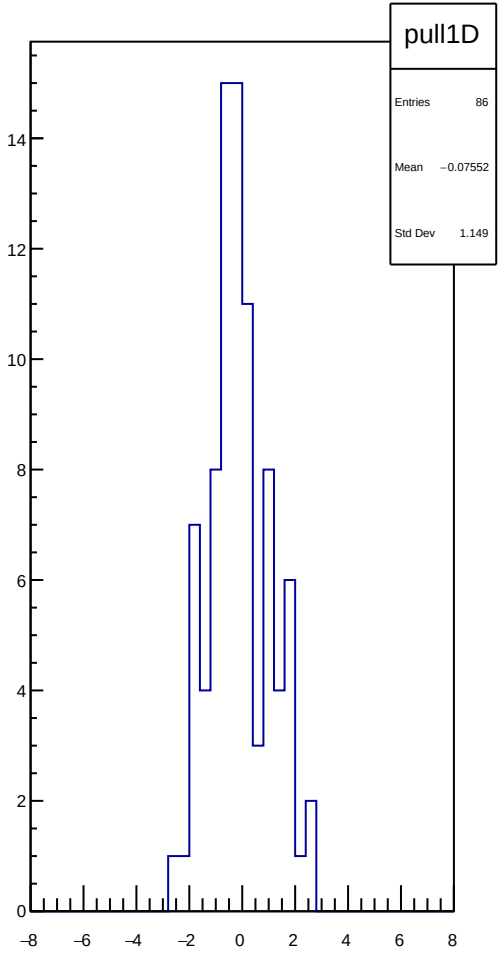
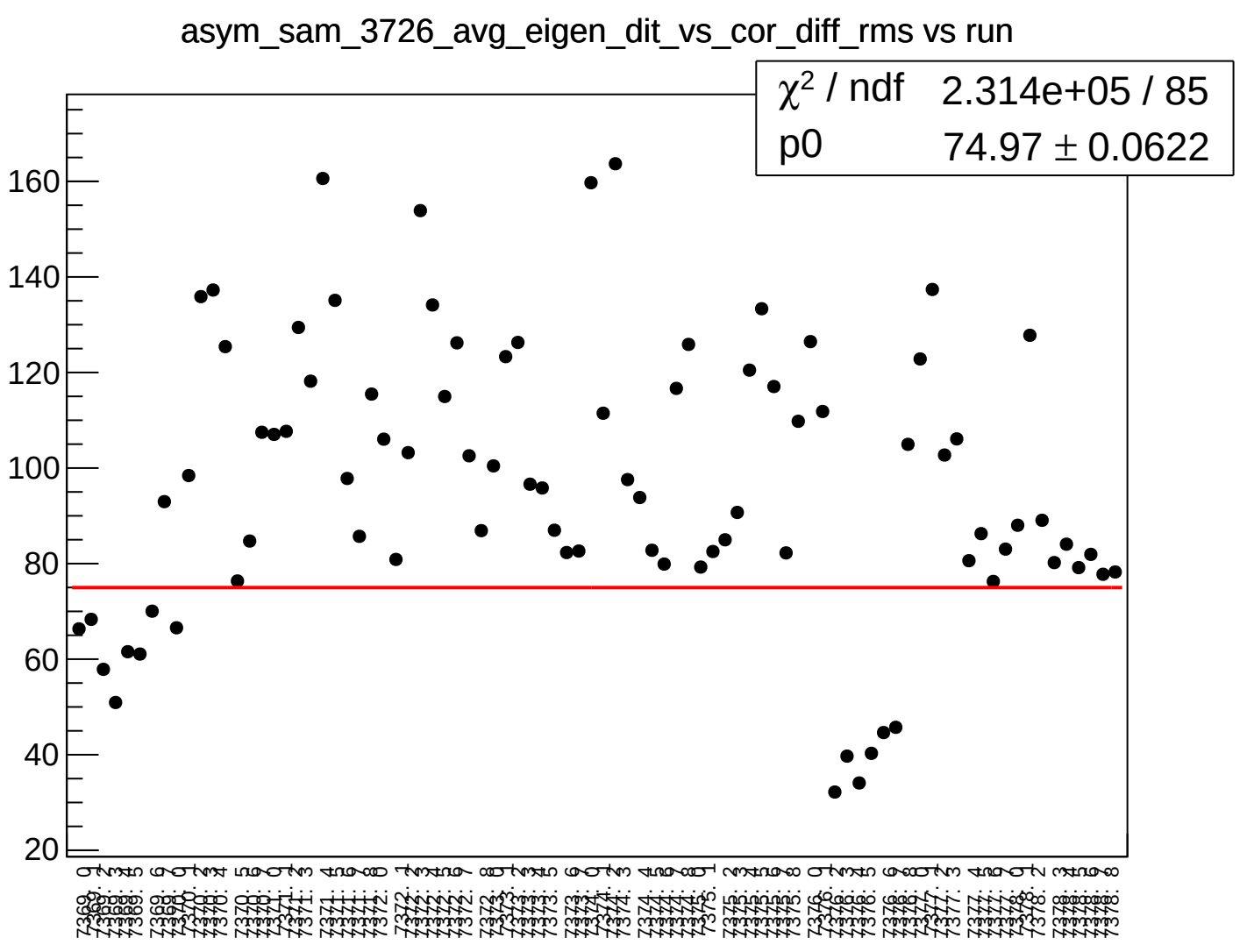
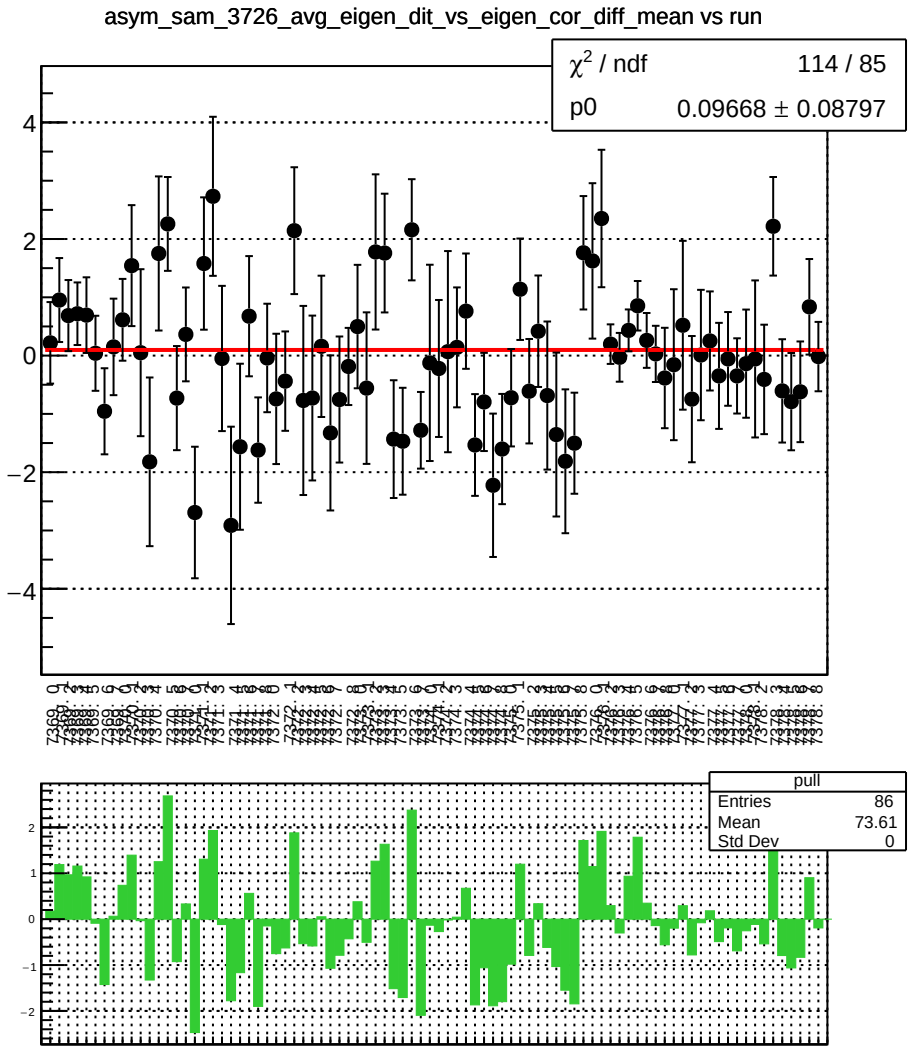
−8
−6
−4
−2
0
2
4
6
8

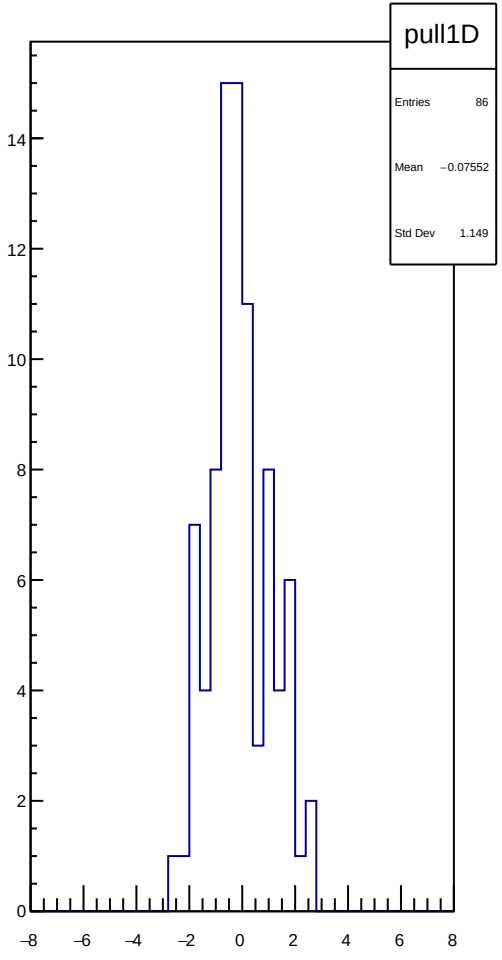

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3265 / 85
p0 0.001995 ± 1.539e−06
0.0022
0.0021
0.002
0.0019
0.0018

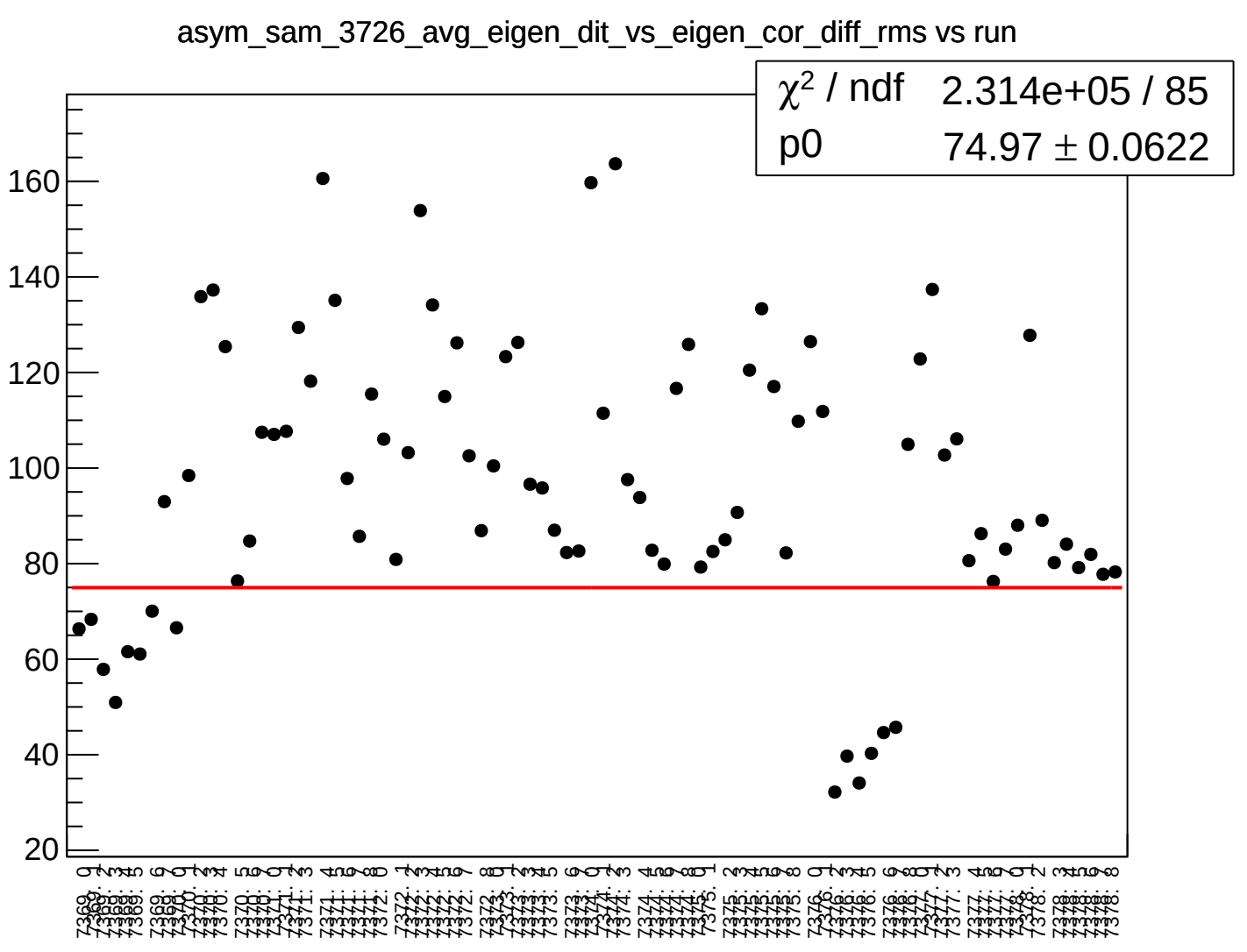

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114 / 85
p0 0.09668 ± 0.08797
pull
Entries 86
Mean 73.61
Std Dev 0

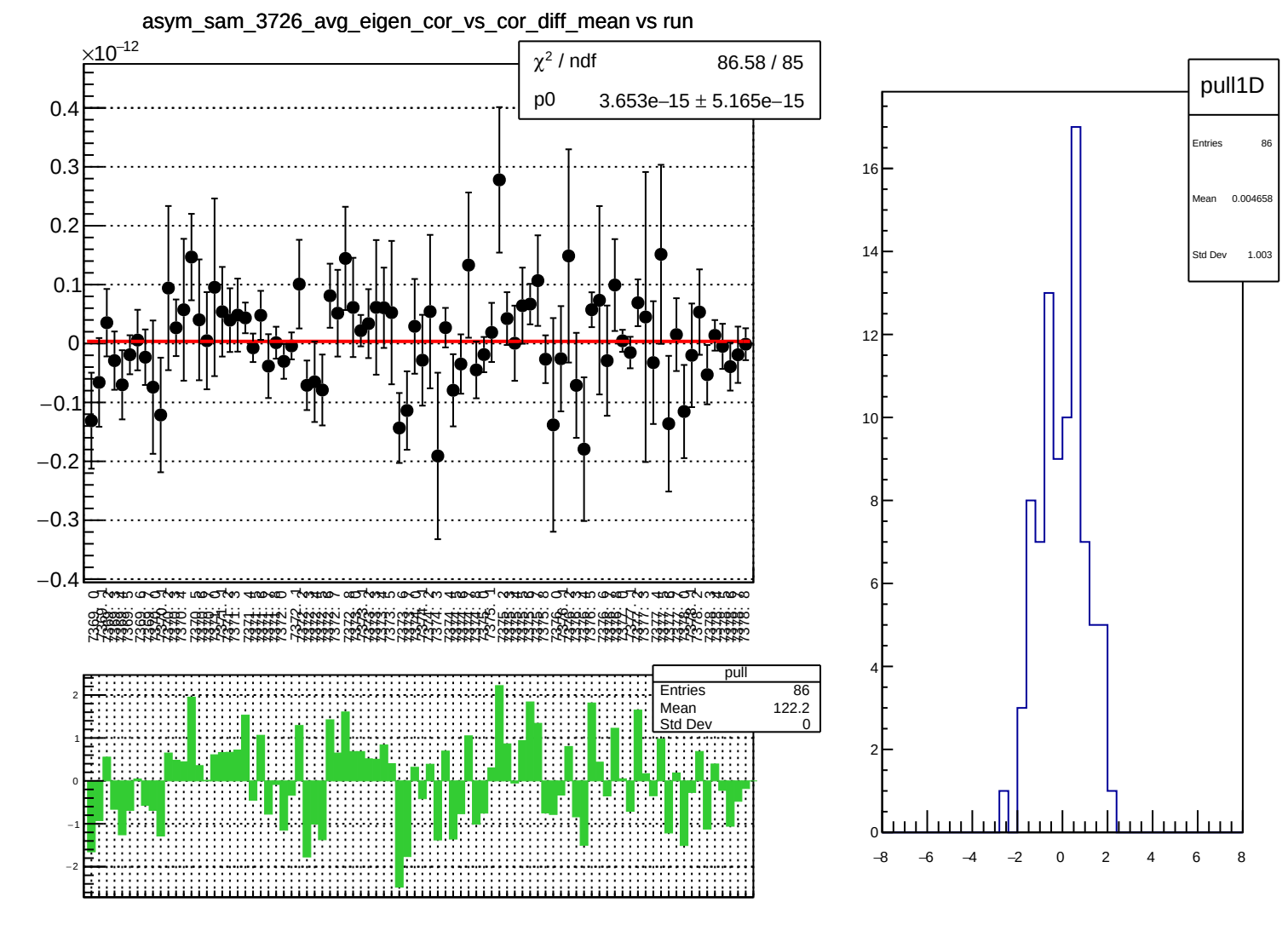

pull1D
Entries 86
Mean −0.07552
Std Dev 1.149

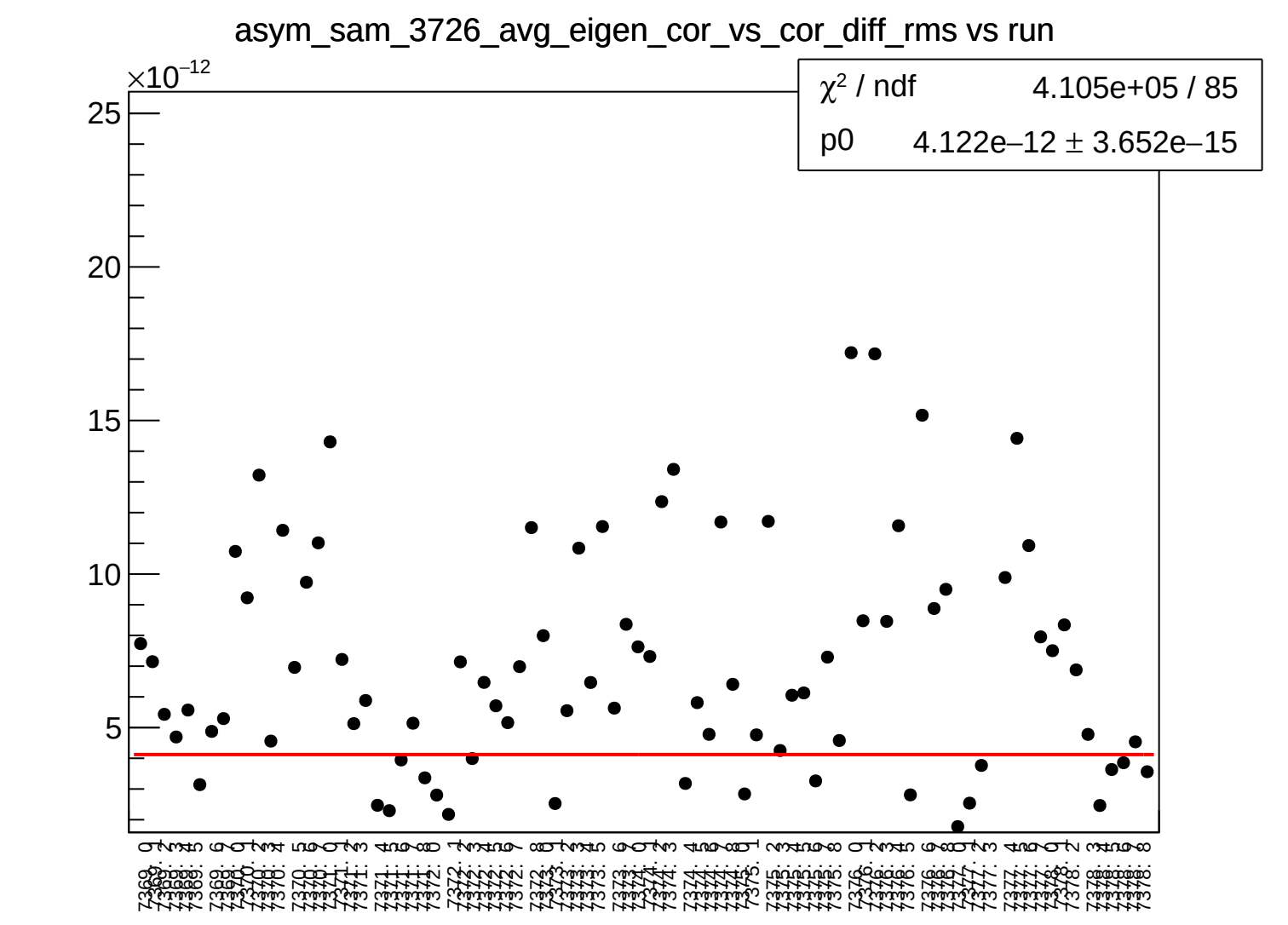

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.314e+05 / 85
p0 74.97 ± 0.0622
160
140
120
100
80
60
40
20

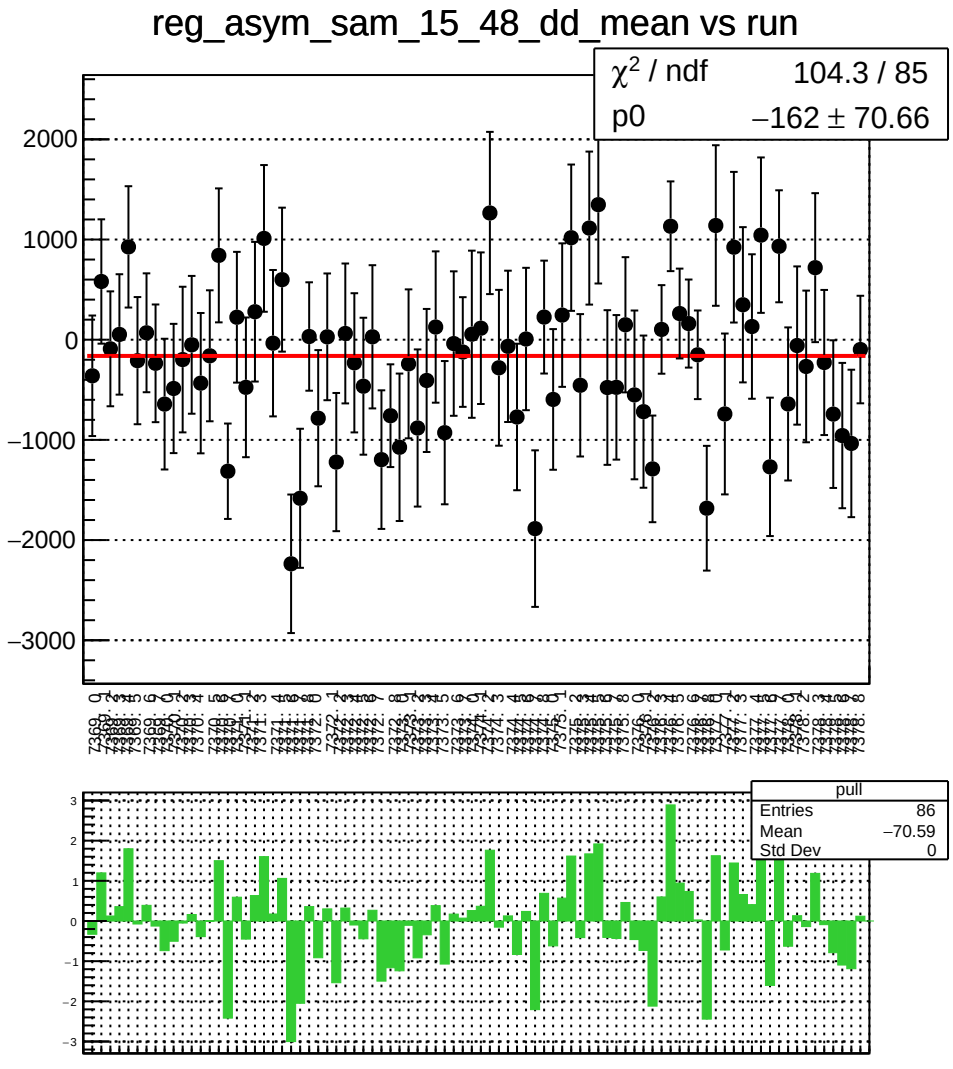

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114 / 85
p0 0.09668 ± 0.08797
pull
Entries 86
Mean 73.61
Std Dev 0

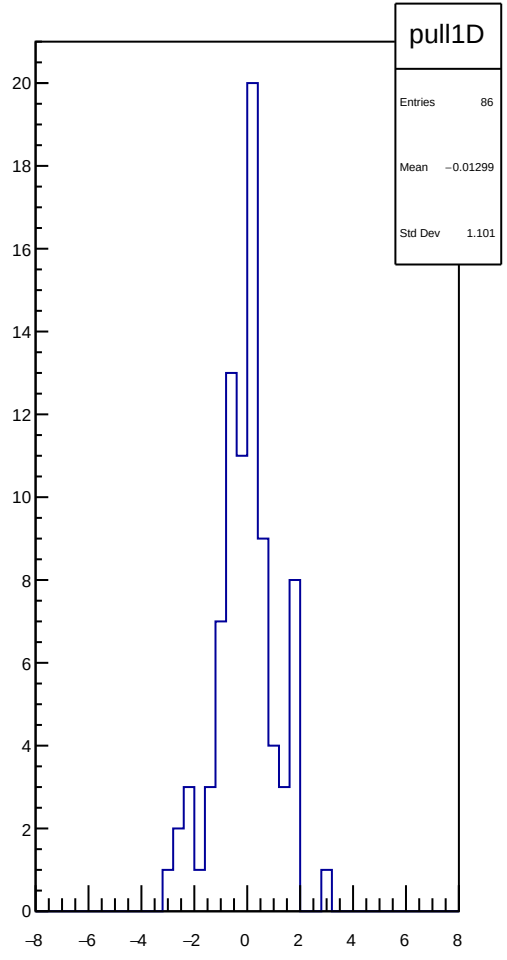

pull1D
Entries 86
Mean −0.07552
Std Dev 1.149

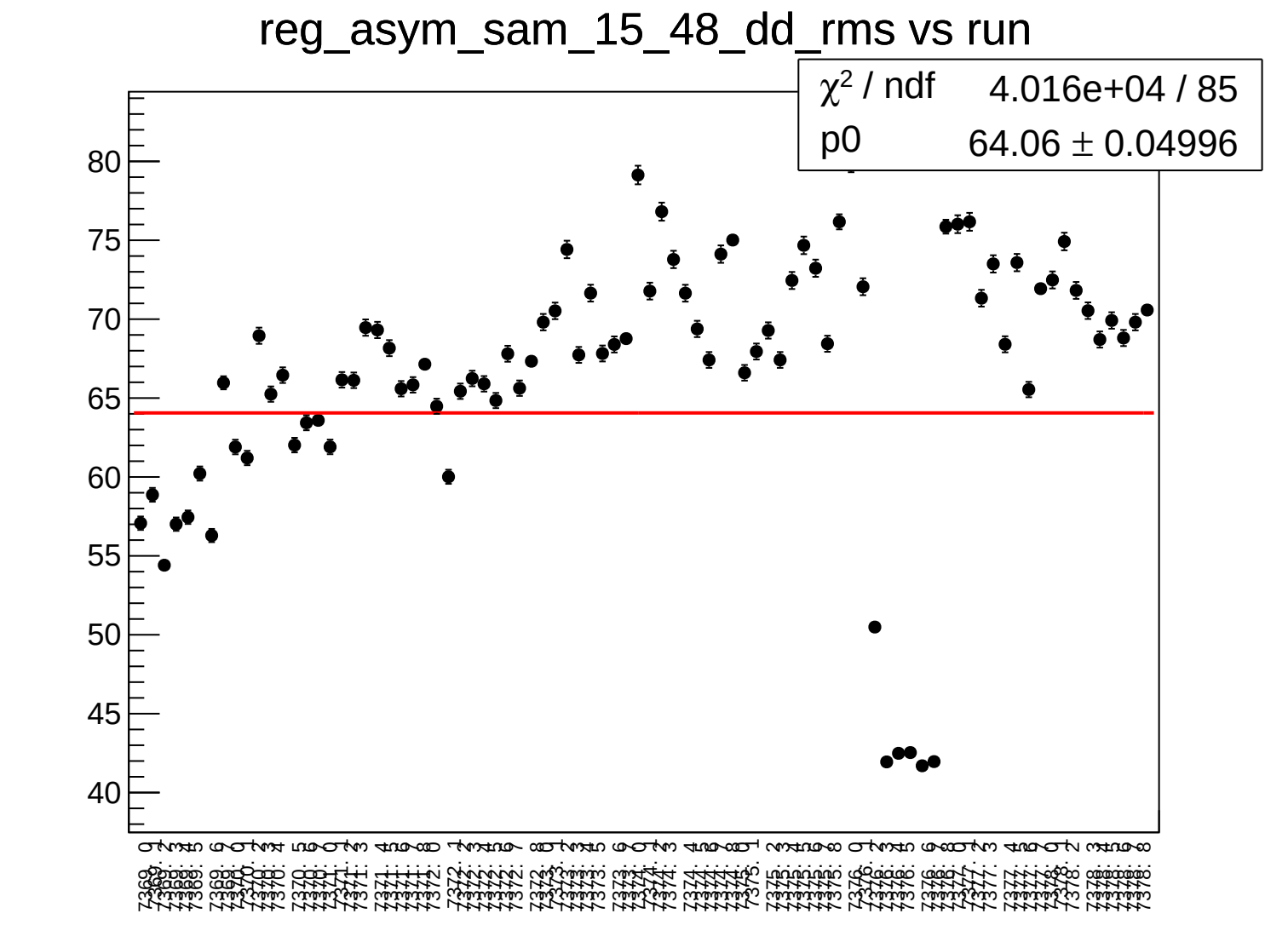

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.314e+05 / 85
p0 74.97 ± 0.0622
160
140
120
100
80
60
40
20

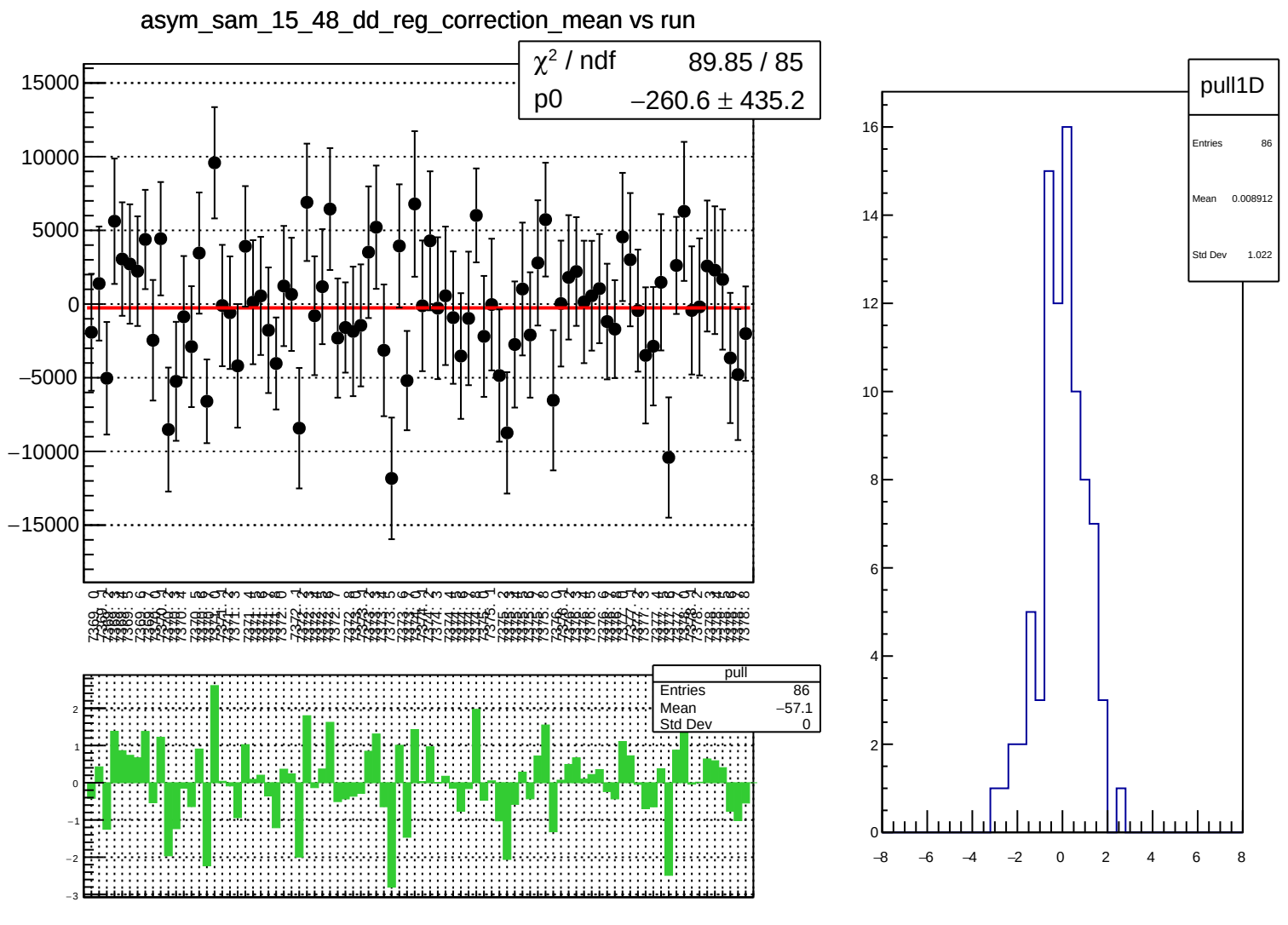

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.58 / 85
p0 3.653e−15 ± 5.165e−15
pull
Entries 86
Mean 122.2
Std Dev 0
pull1D
Entries 86
Mean 0.004658
Std Dev 1.003

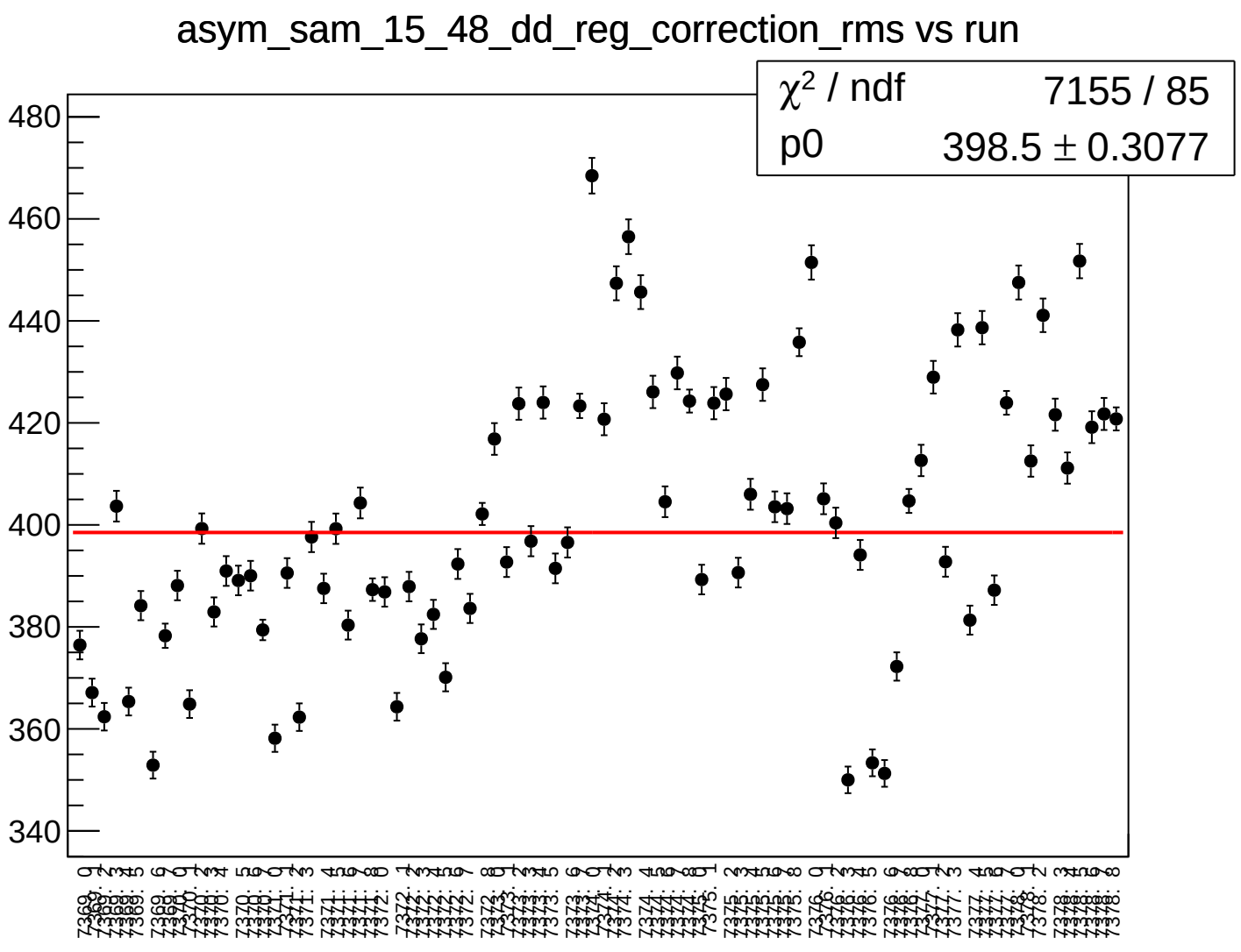

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
25
20
15
10
5
χ² / ndf 4.105e+05 / 85
p0 4.122e−12 ± 3.652e−15

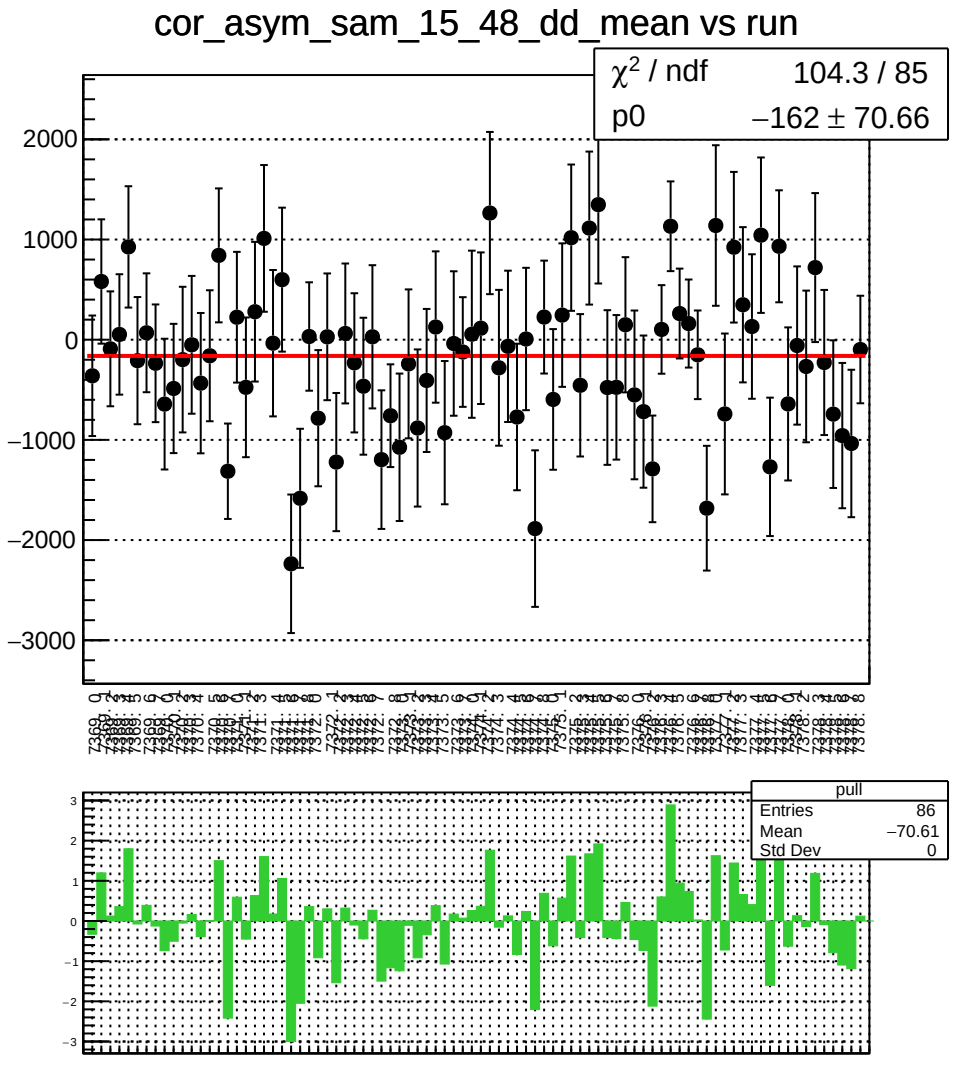

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.3 / 85
p0 −162 ± 70.66
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −70.59
Std Dev 0
3
2
1
0
−1
−2
−3

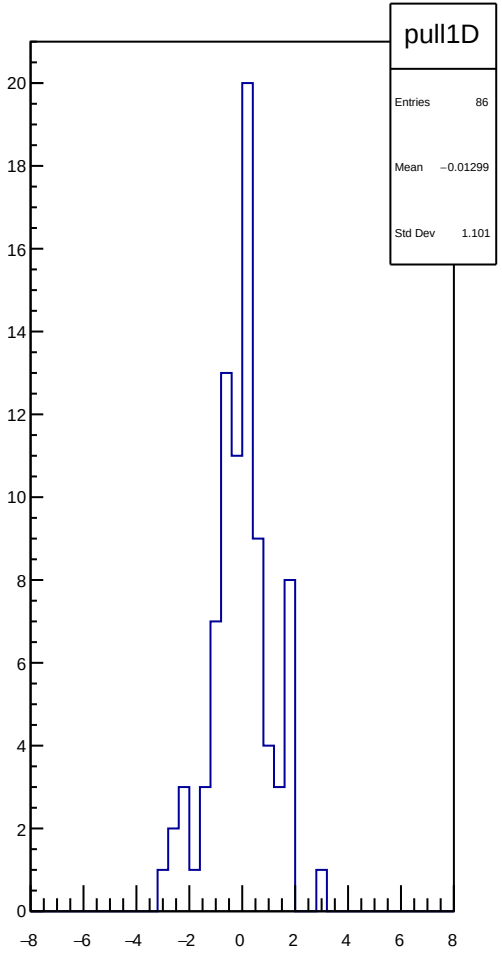

pull1D
Entries 86
Mean −0.01299
Std Dev 1.101
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

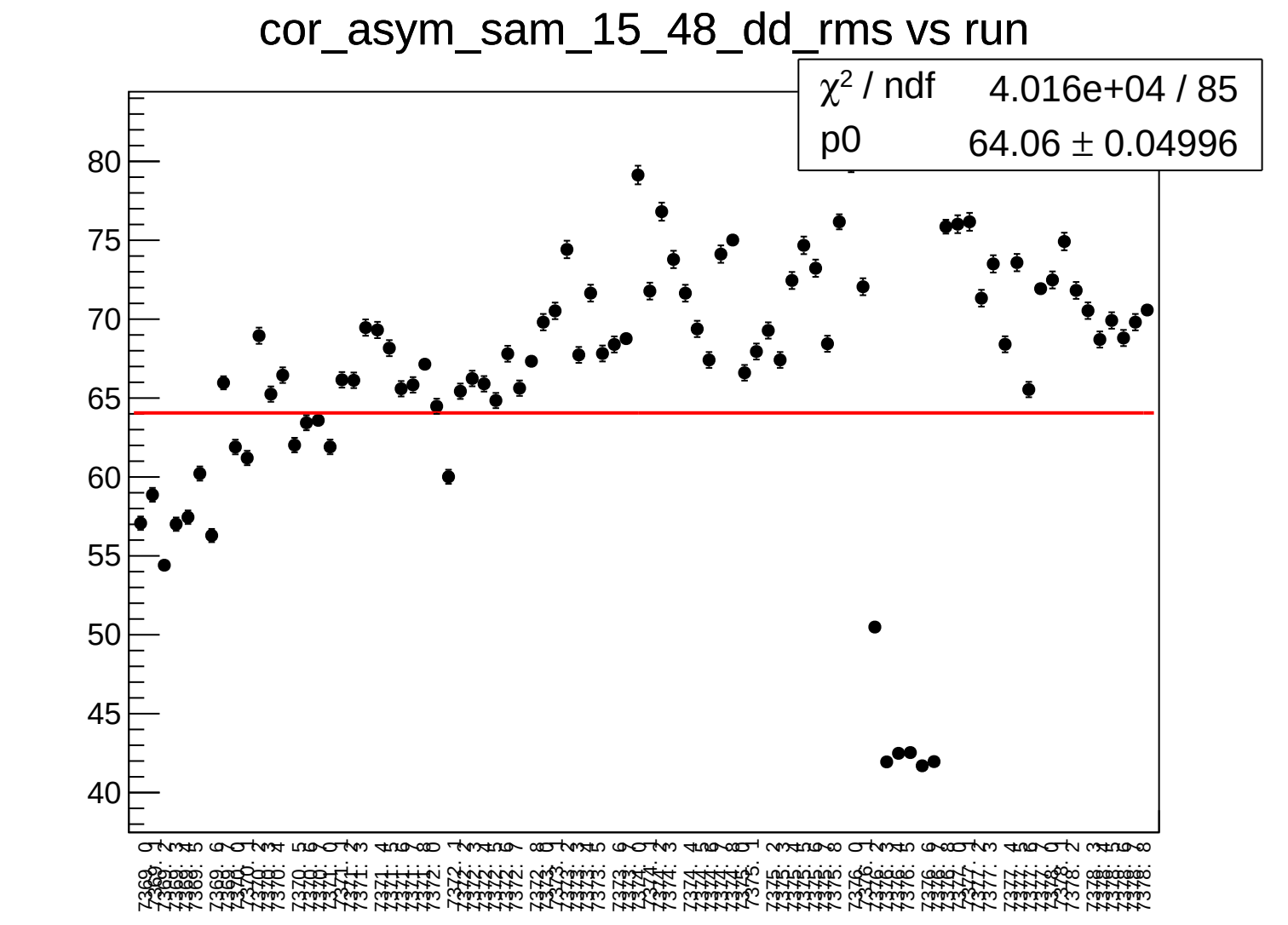

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 4.016e+04 / 85
p0 64.06 ± 0.04996
80
75
70
65
60
55
50
45
40

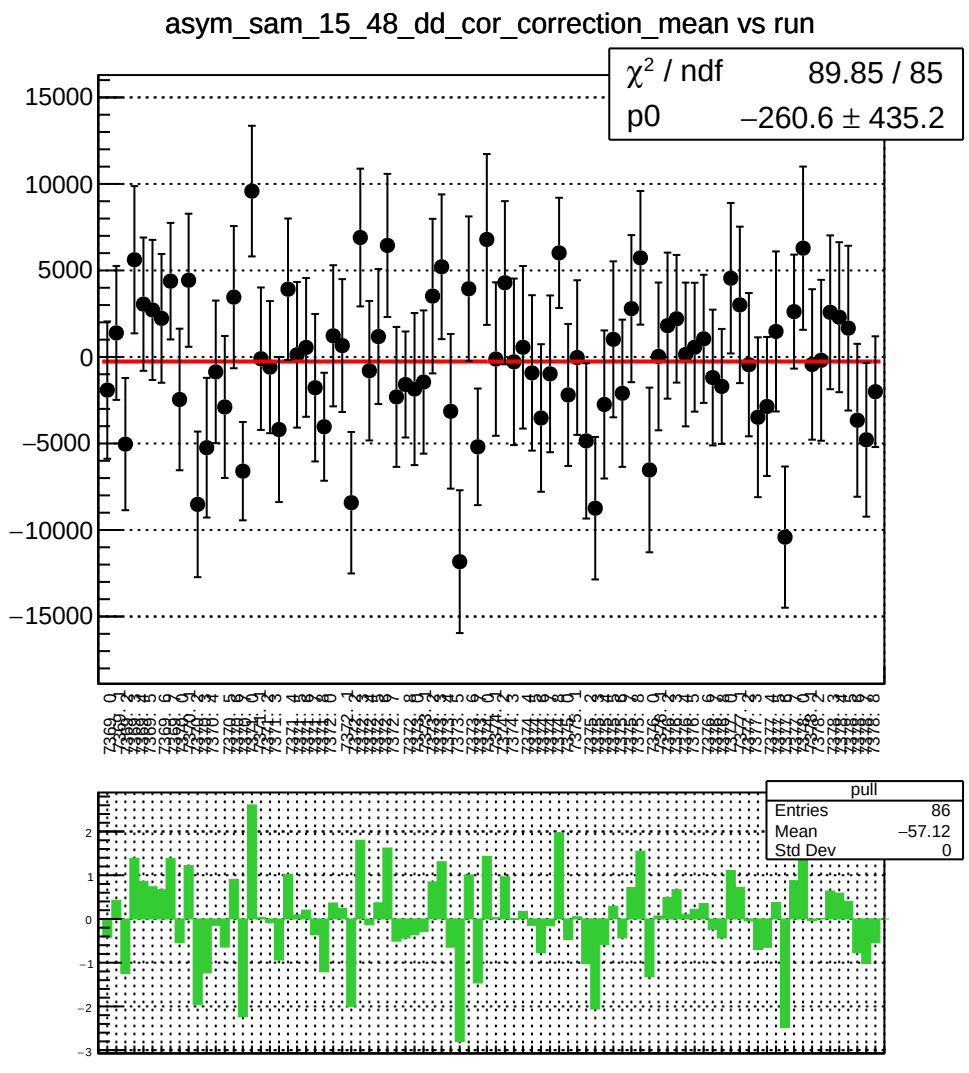

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 89.85 / 85
p0 −260.6 ± 435.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −57.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.008912
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

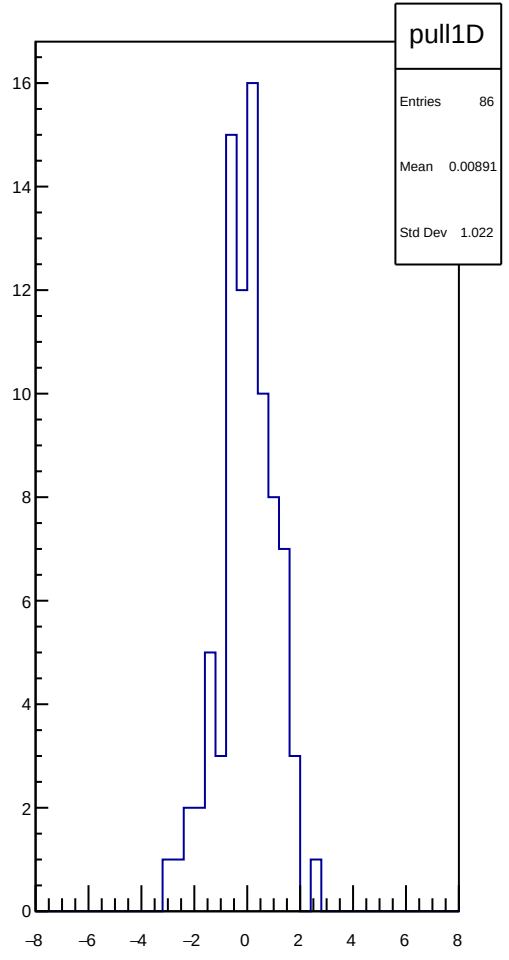

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 7155 / 85
p0 398.5 ± 0.3077
480
460
440
420
400
380
360
340

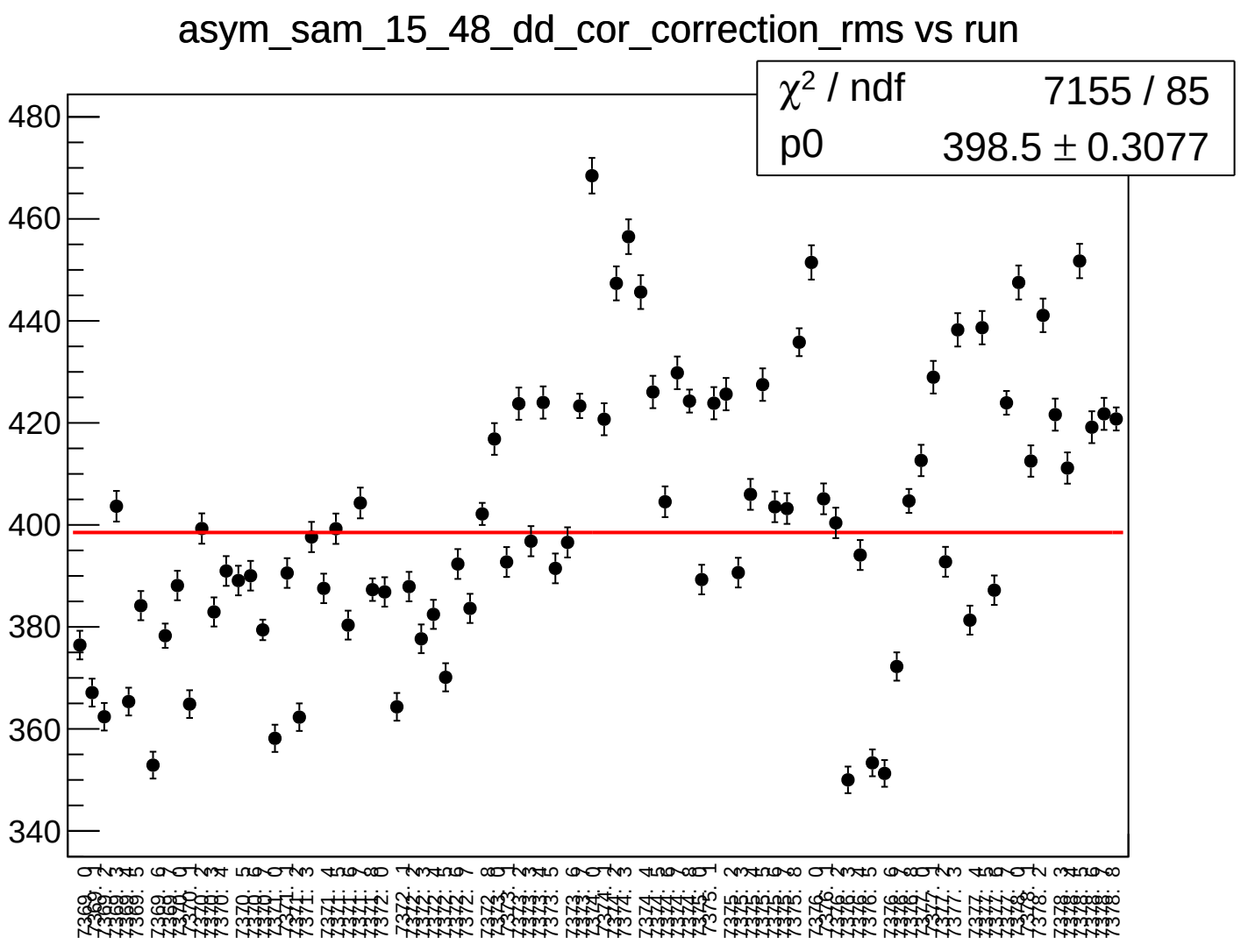

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.3 / 85
p0 −162 ± 70.66
pull
Entries 86
Mean −70.61
Std Dev 0

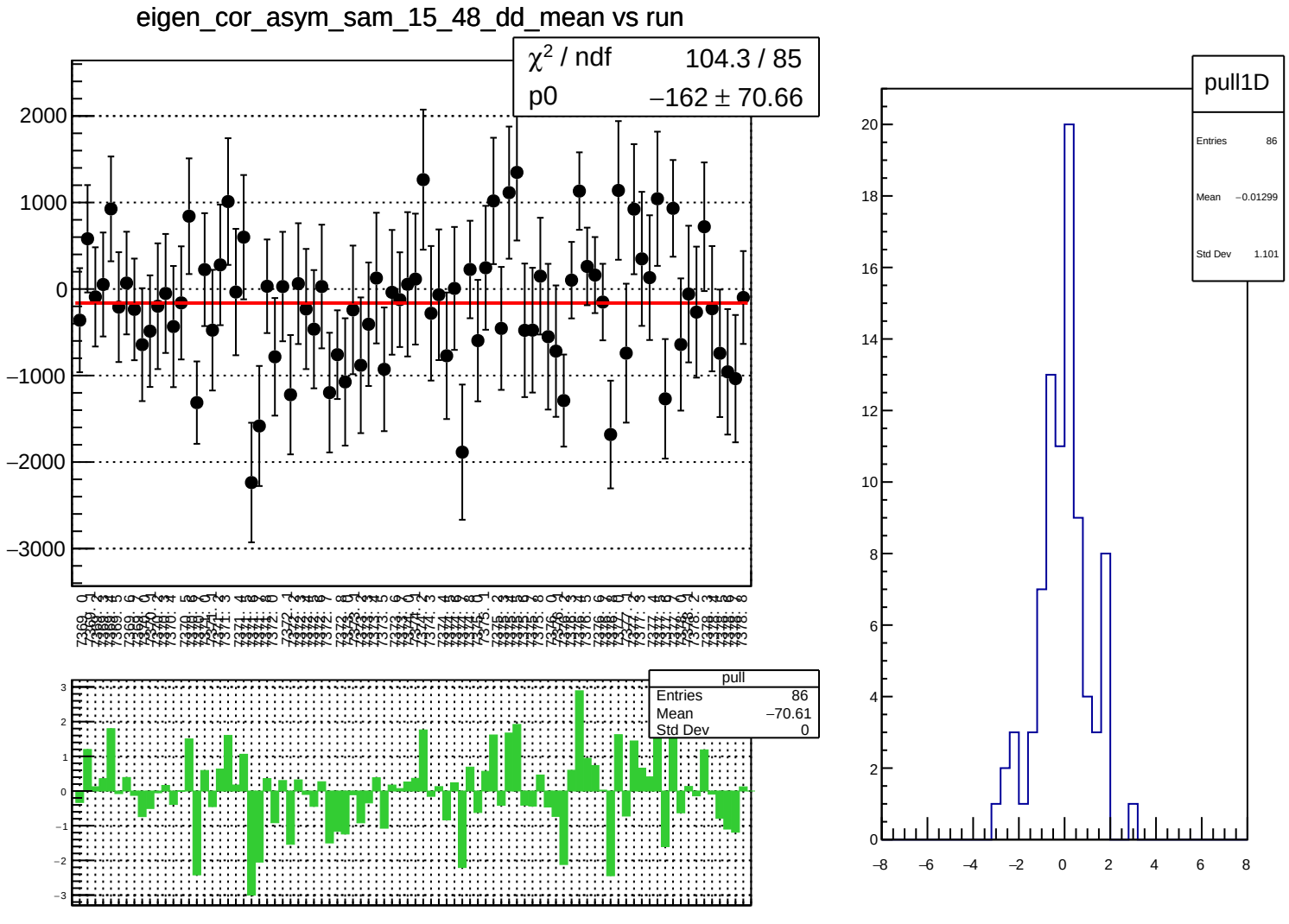

pull1D
Entries 86
Mean −0.01299
Std Dev 1.101

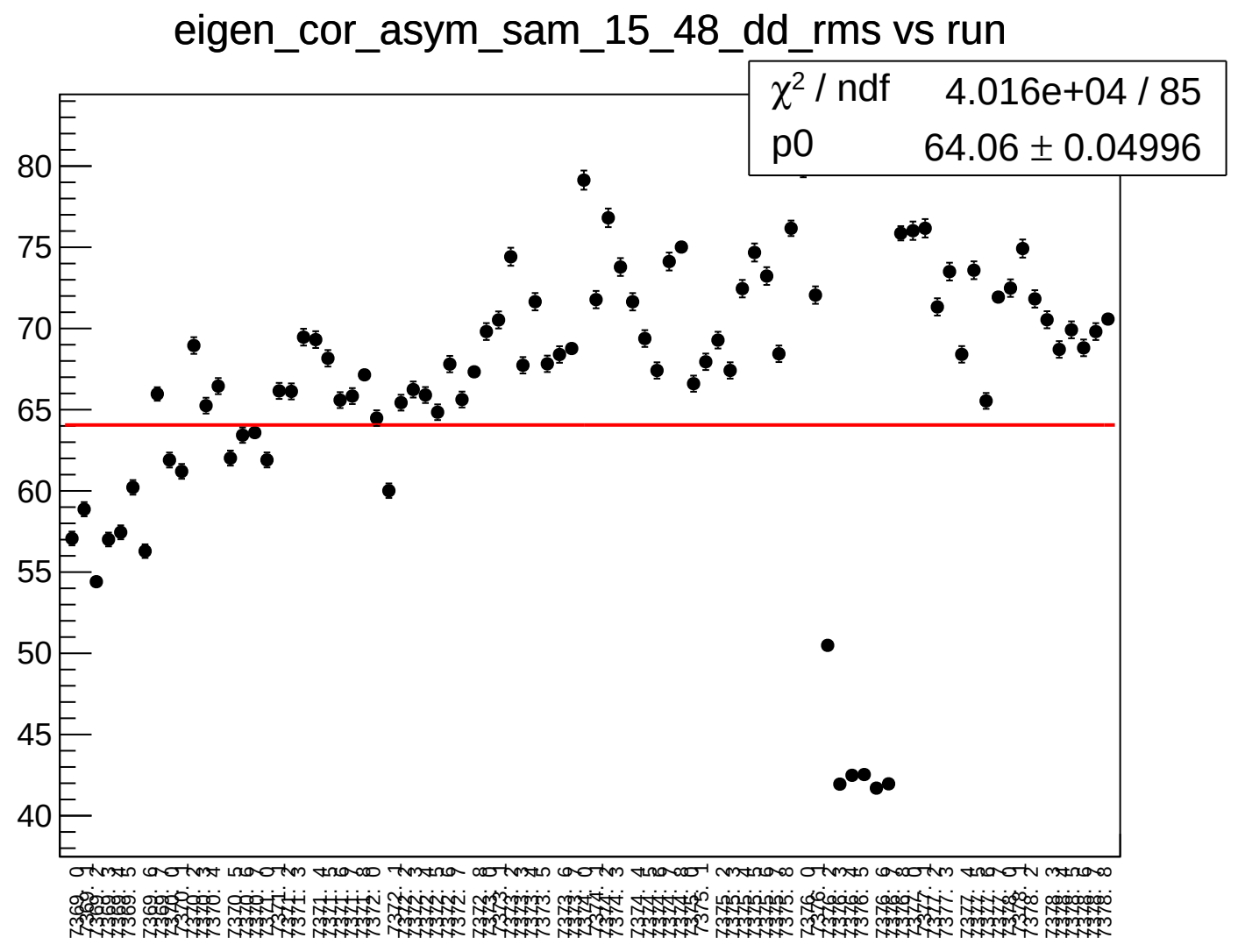

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 4.016e+04 / 85
p0 64.06 ± 0.04996
80
75
70
65
60
55
50
45
40

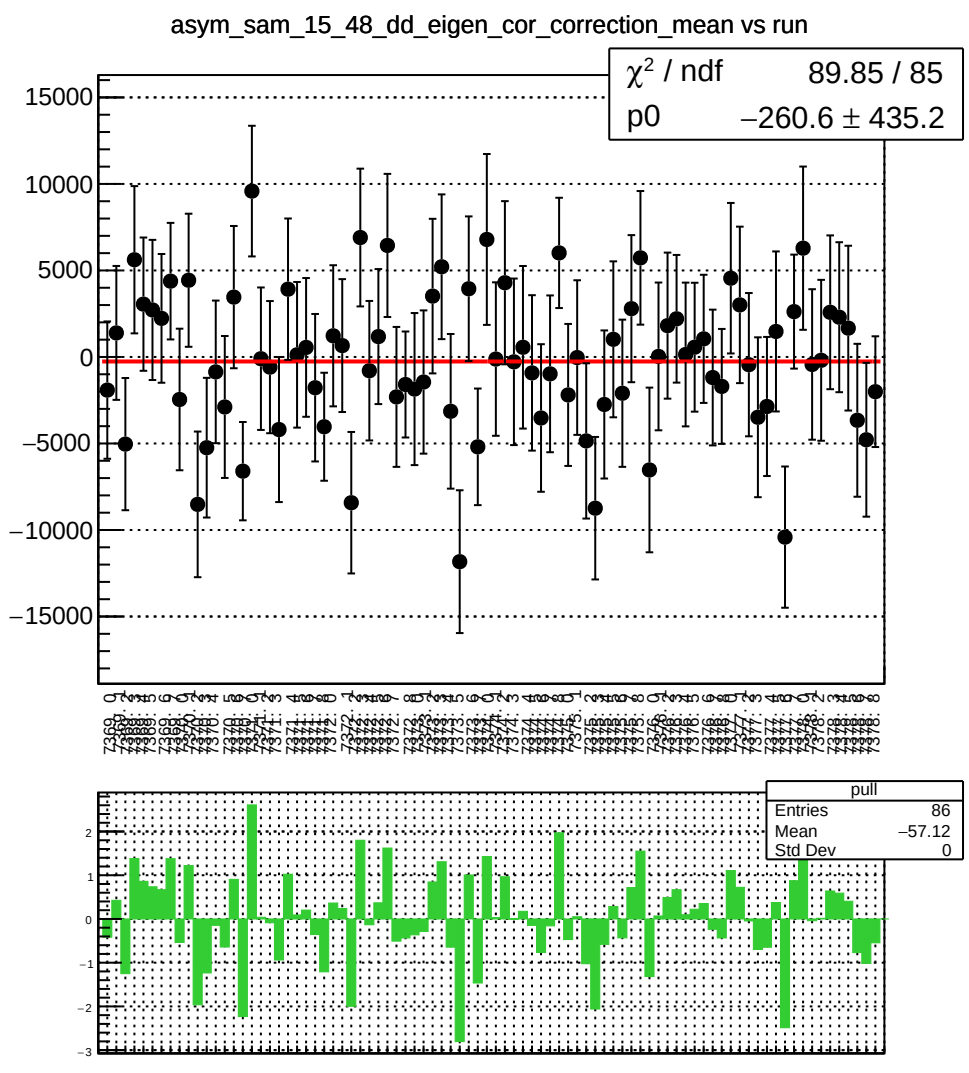

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 89.85 / 85
p0 −260.6 ± 435.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −57.12
Std Dev 0
2
1
0
−1
−2
−3

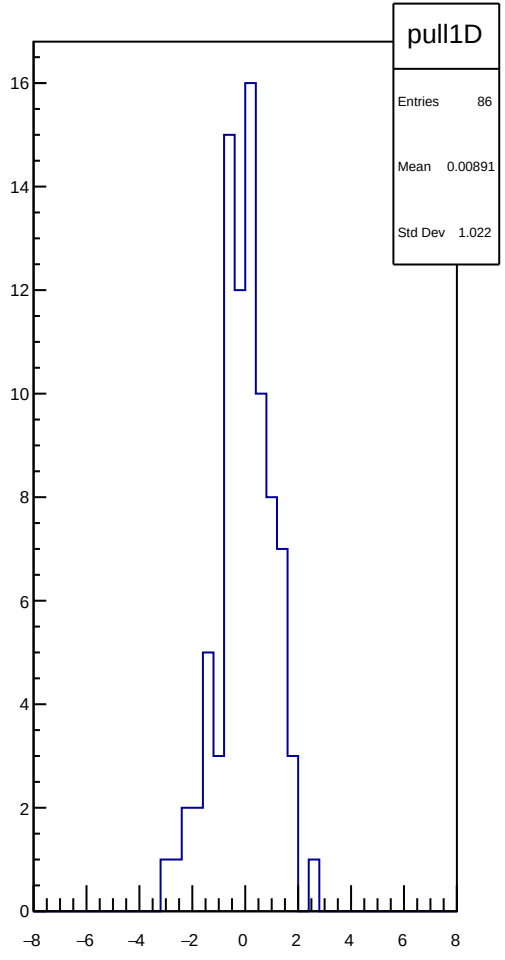

pull1D
Entries 86
Mean 0.00891
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

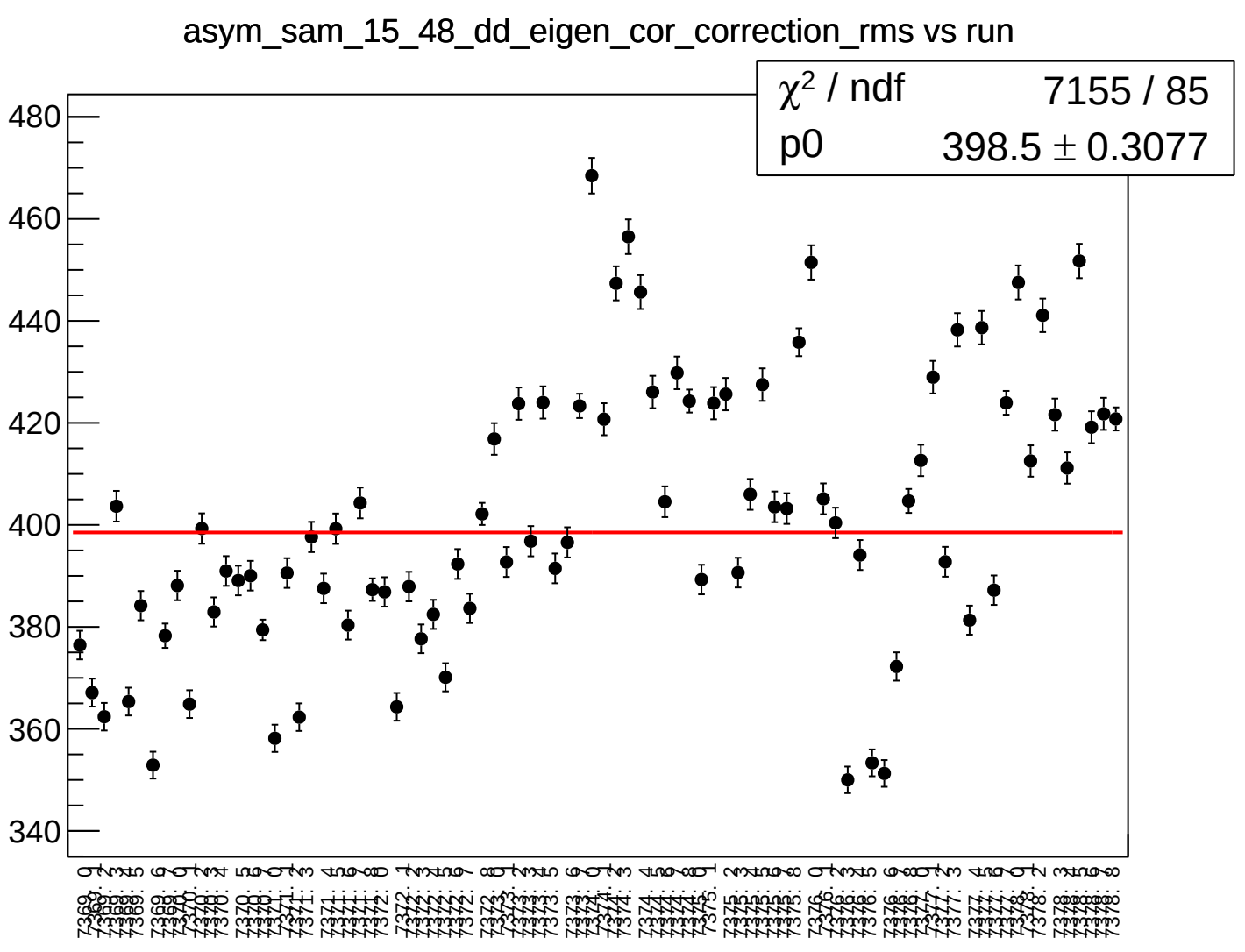

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 7155 / 85
p0 398.5 ± 0.3077
480
460
440
420
400
380
360
340

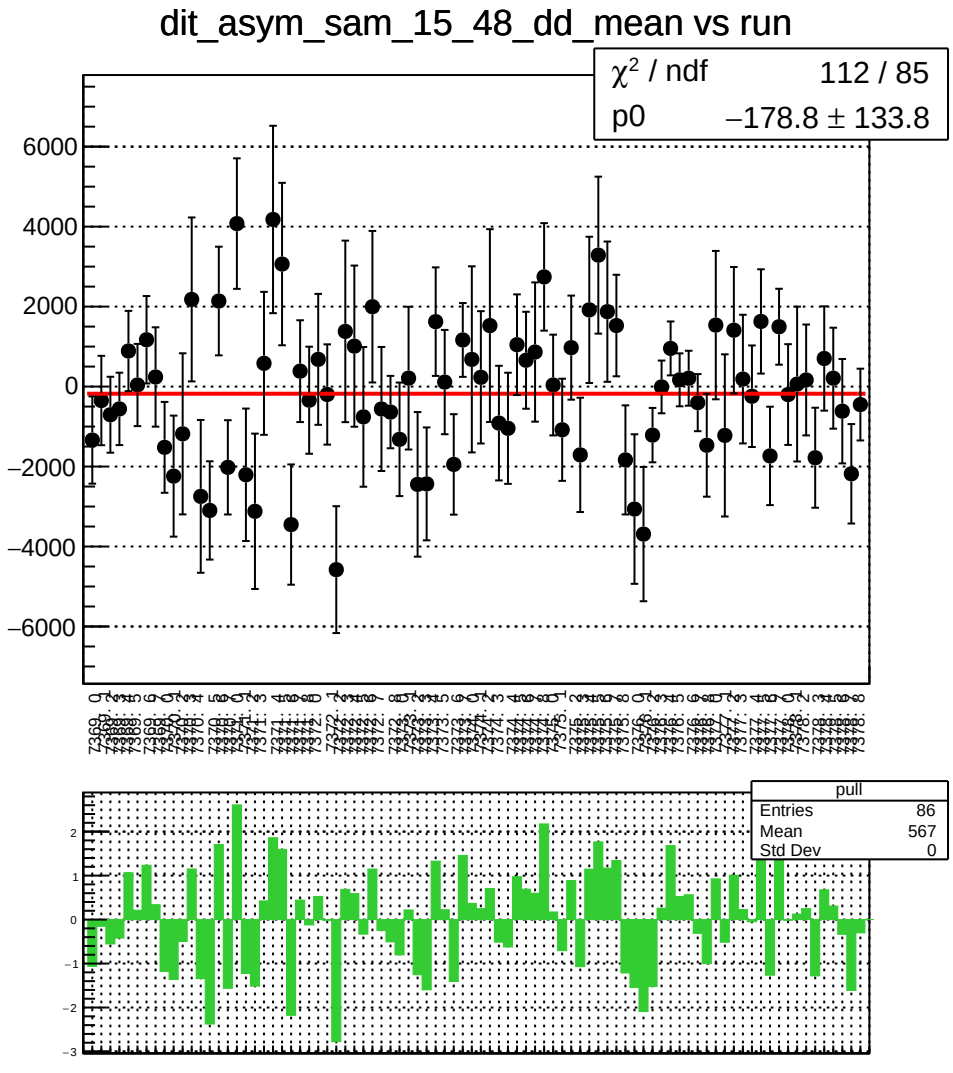

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.3 / 85
p0 −162 ± 70.66
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −70.61
Std Dev 0
pull1D
Entries 86
Mean −0.01299
Std Dev 1.101
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

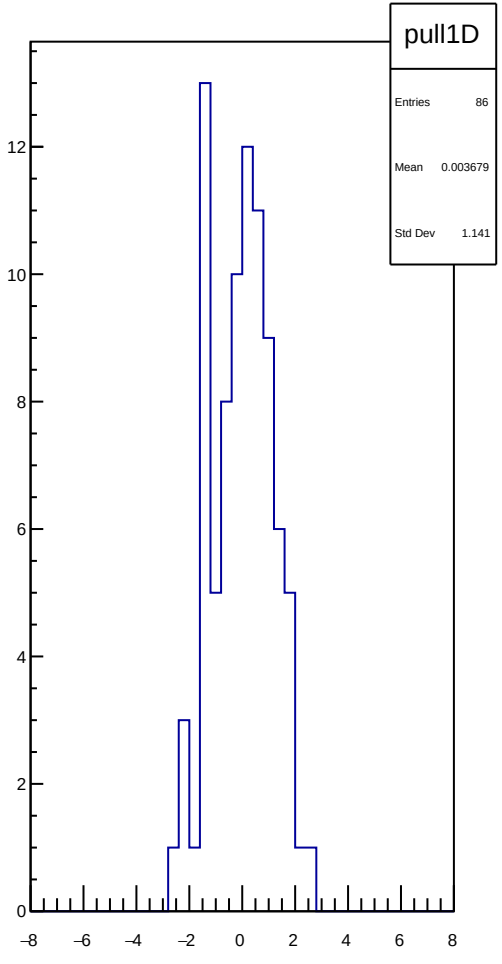

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 4.016e+04 / 85
p0 64.06 ± 0.04996
80
75
70
65
60
55
50
45
40

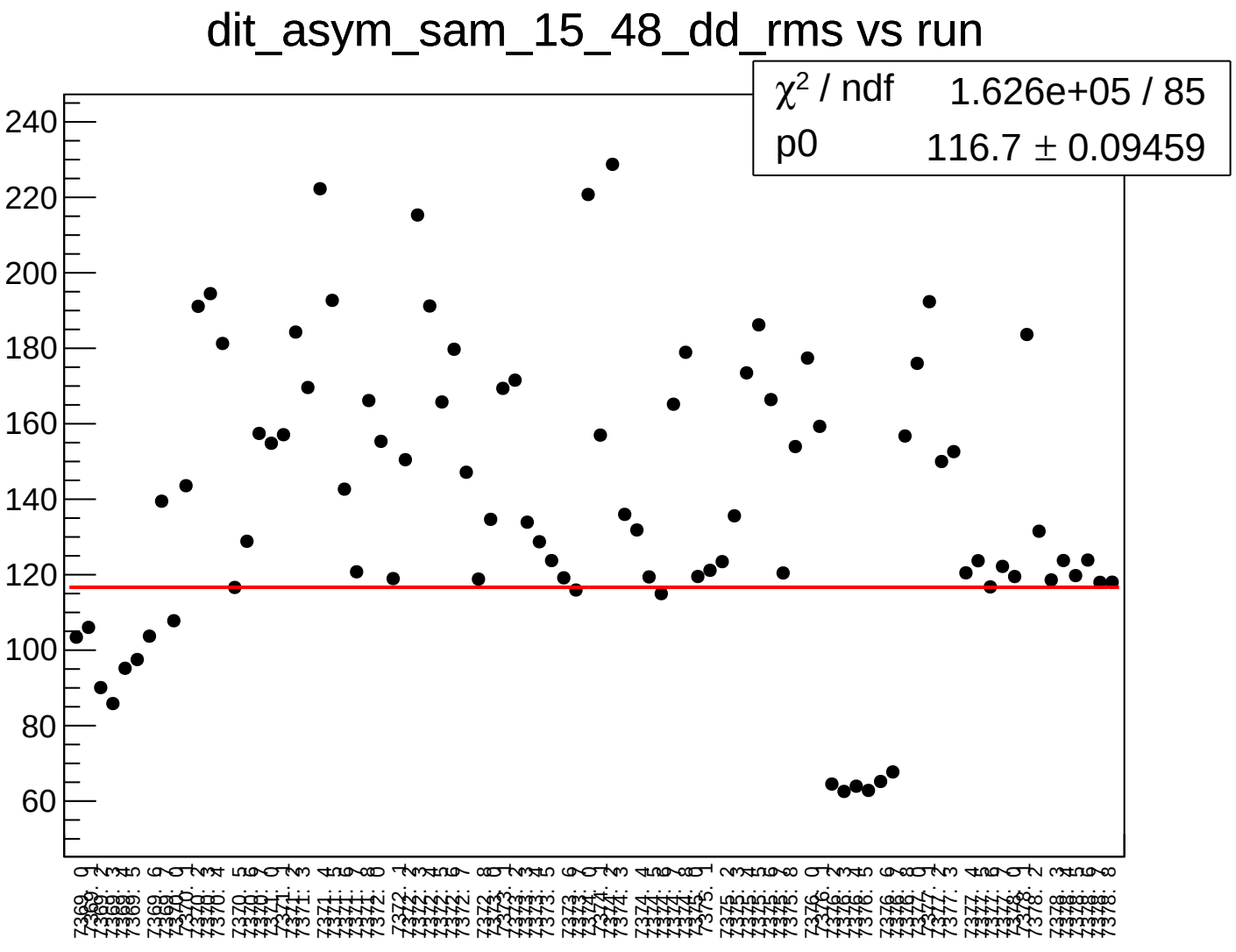

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.85 / 85
p0 −260.6 ± 435.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −57.12
Std Dev 0
2
1
0
−1
−2
−3

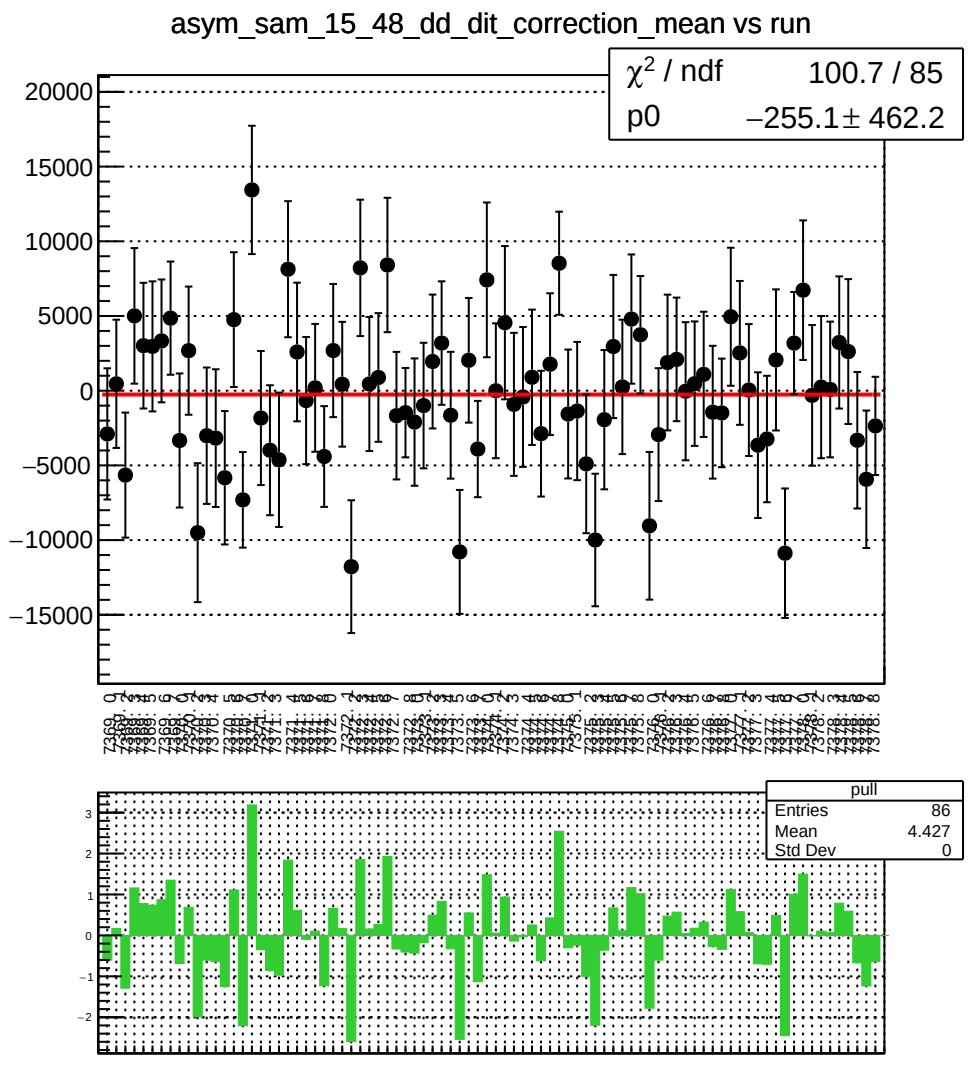

pull1D
Entries 86
Mean 0.00891
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

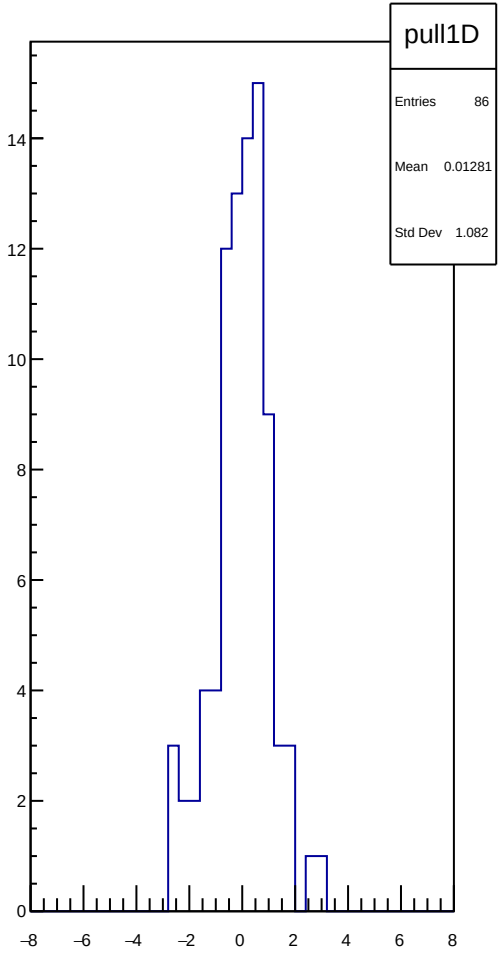

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7155 / 85
p0 398.5 ± 0.3077
480
460
440
420
400
380
360
340

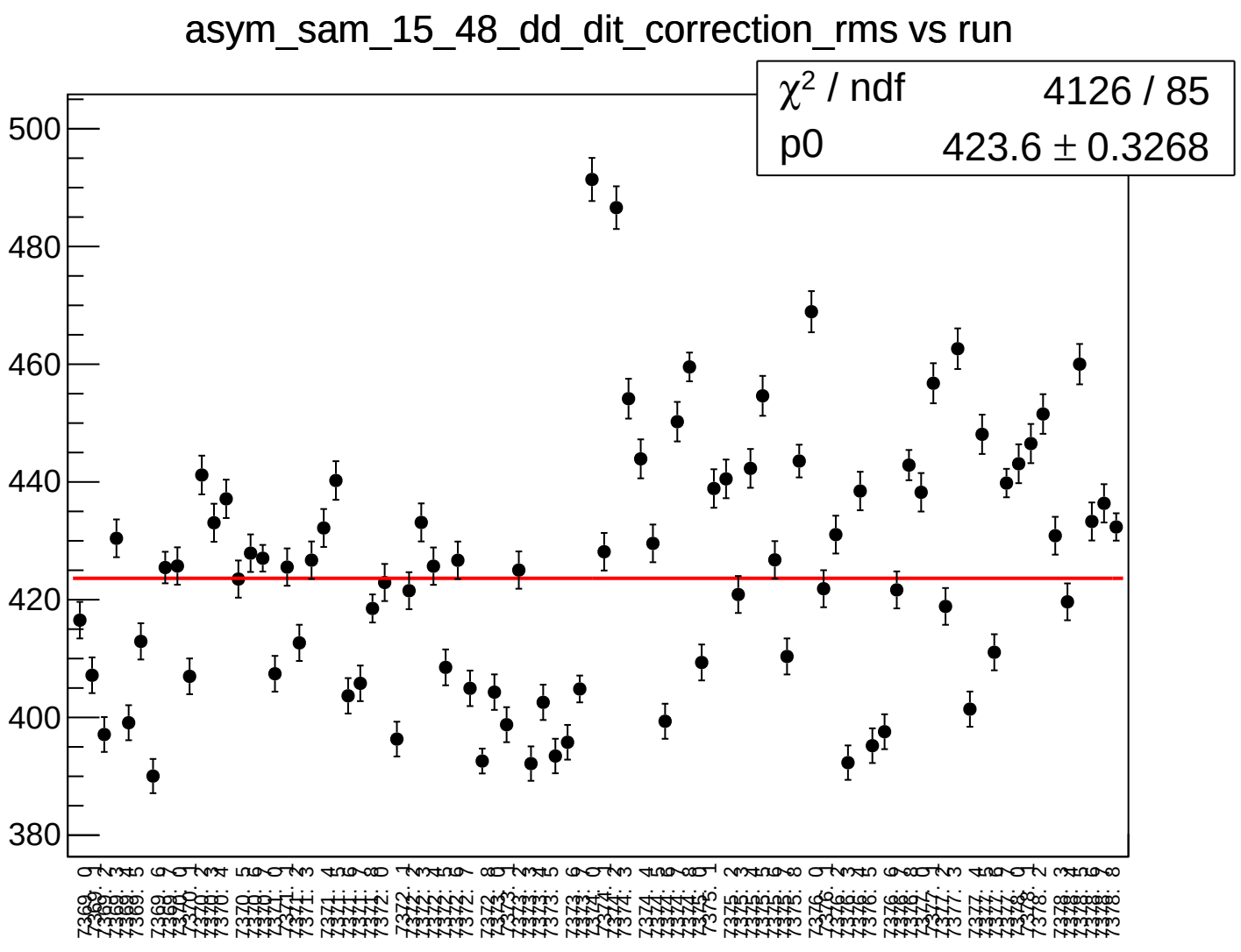

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 112 / 85
p0 −178.8 ± 133.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 567
Std Dev 0
2
1
0
−1
−2
−3

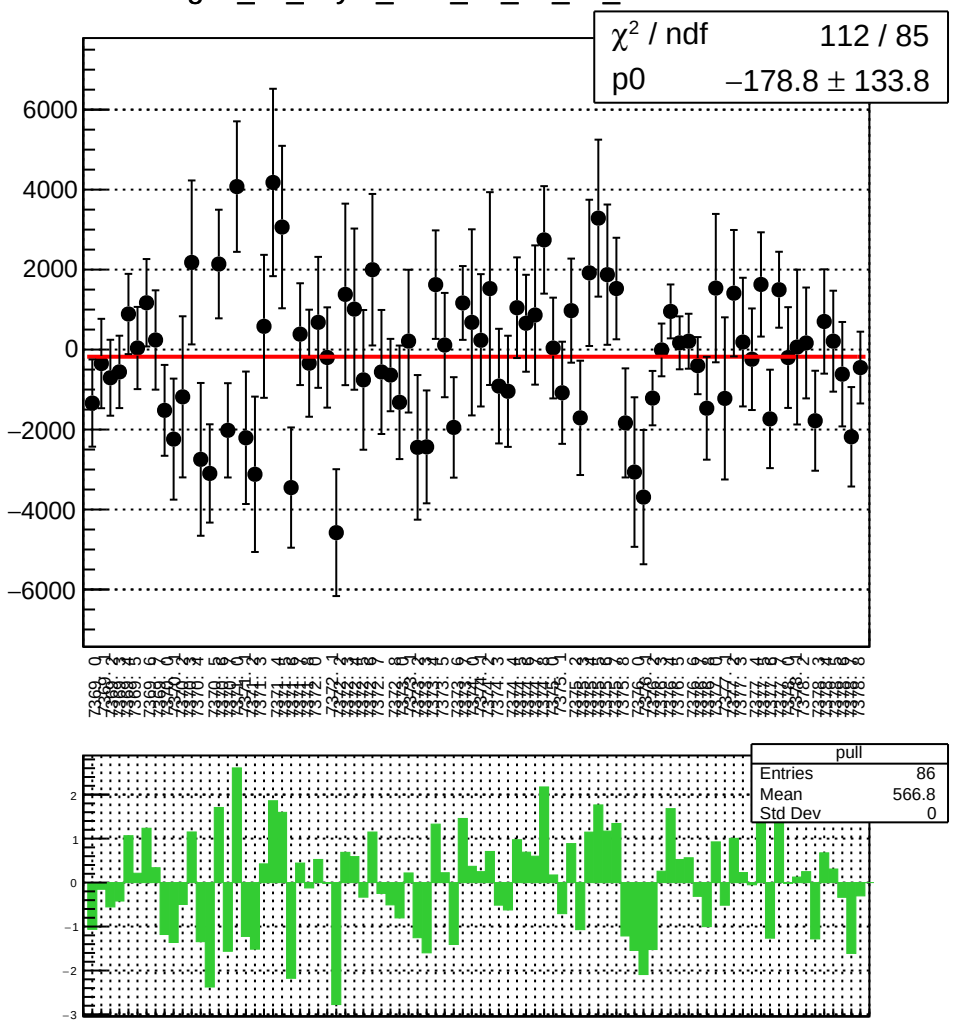

pull1D
Entries 86
Mean 0.003679
Std Dev 1.141
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

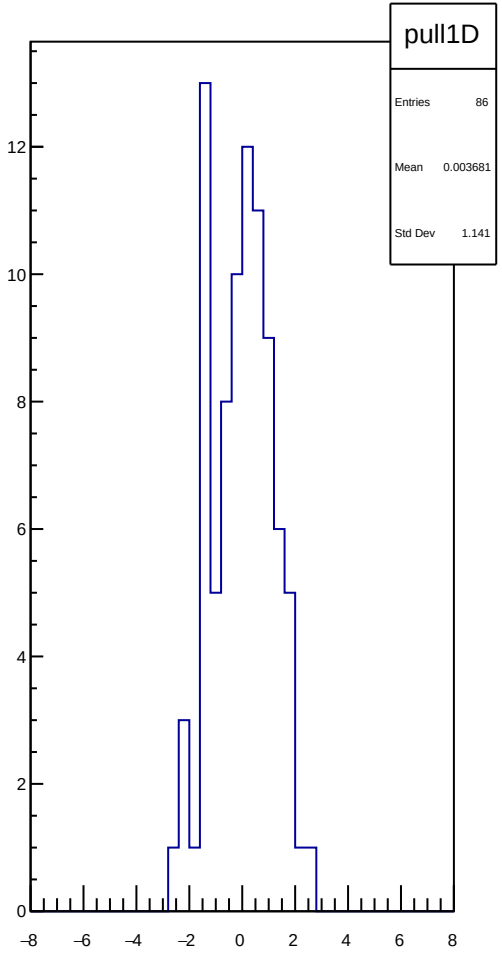

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.626e+05 / 85
p0 116.7 ± 0.09459
240
220
200
180
160
140
120
100
80
60

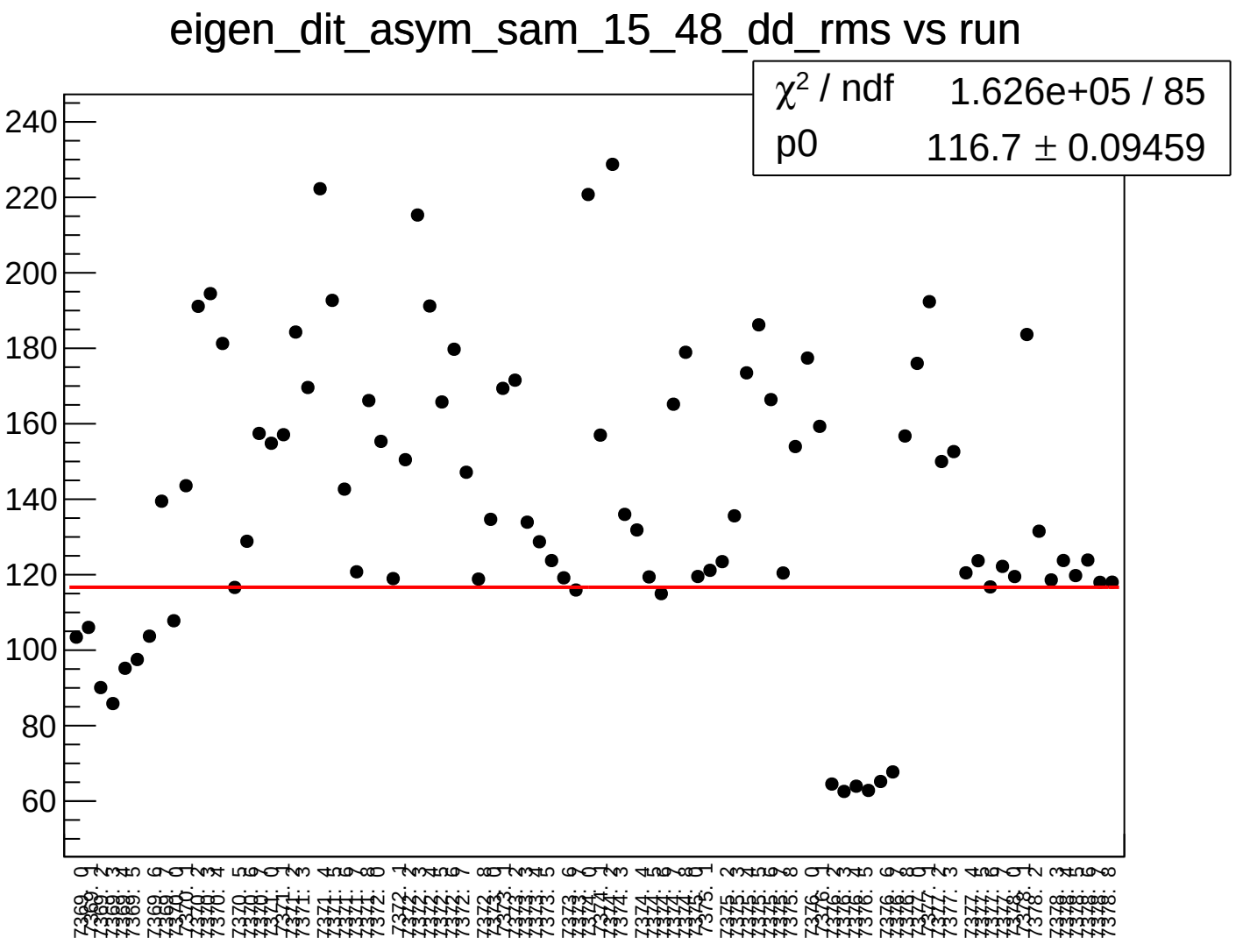

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 100.7 / 85
p0 −255.1± 462.2
pull
Entries 86
Mean 4.427
Std Dev 0

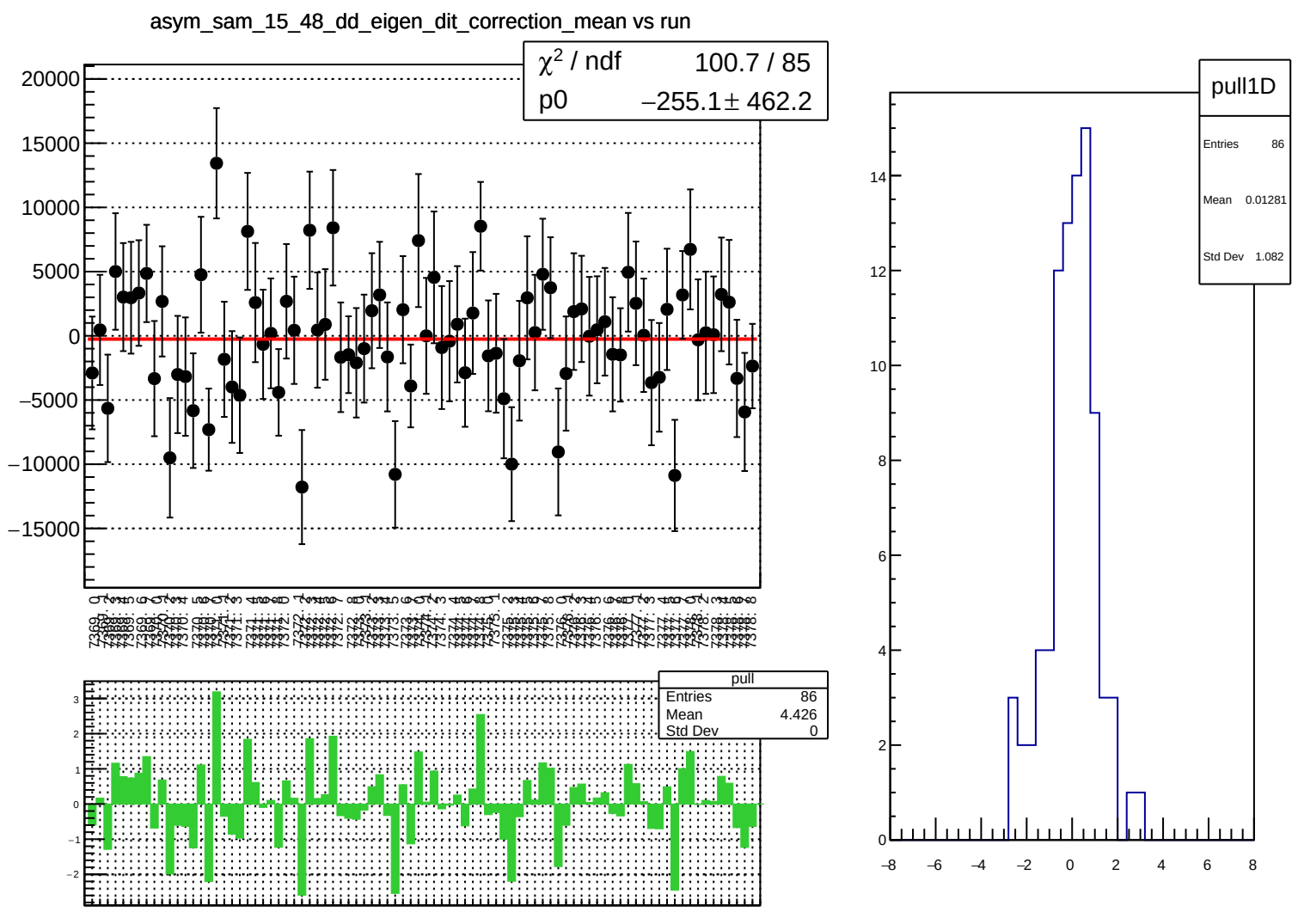

pull1D
Entries 86
Mean 0.01281
Std Dev 1.082

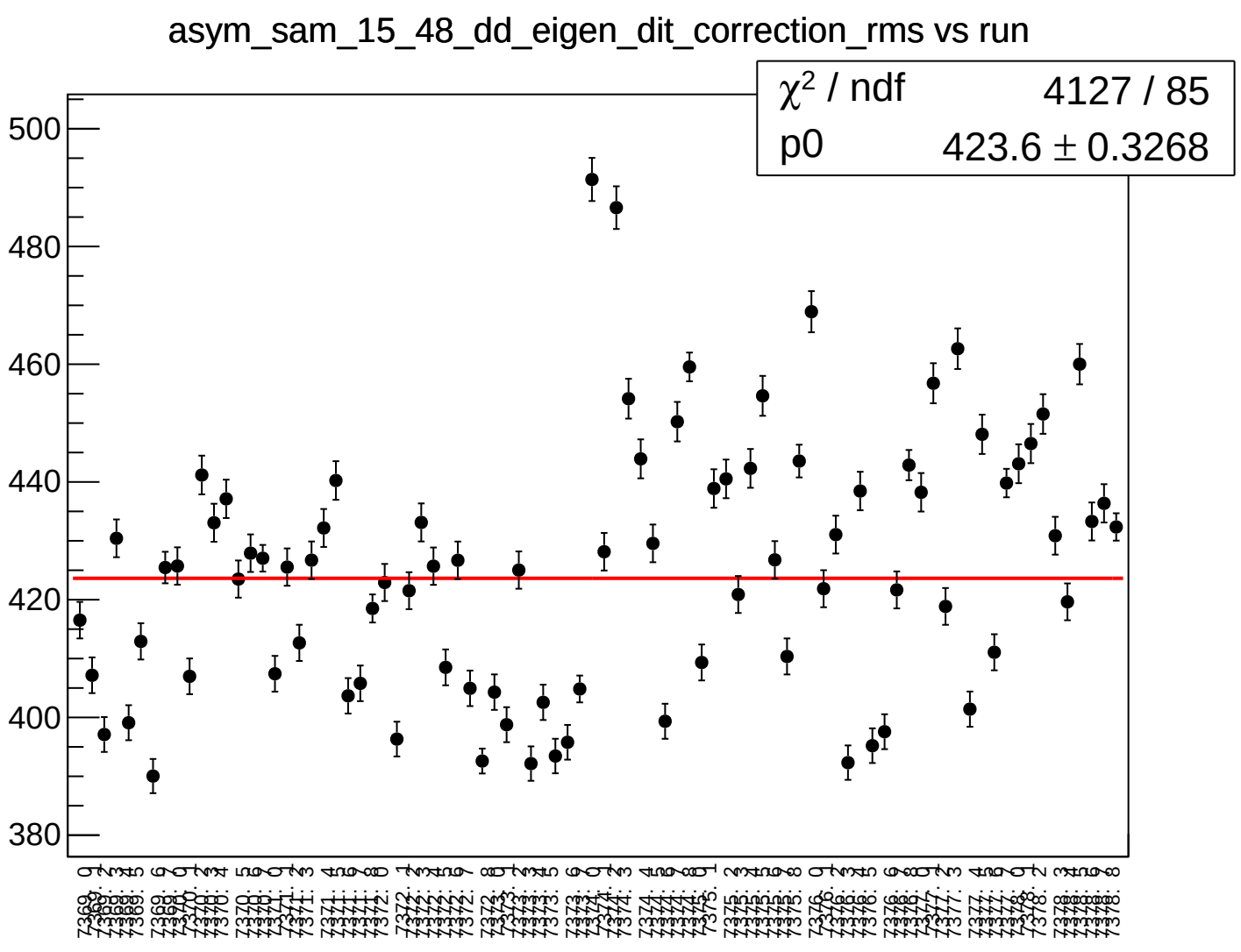

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 4126 / 85
p0 423.6 ± 0.3268
500
480
460
440
420
400
380

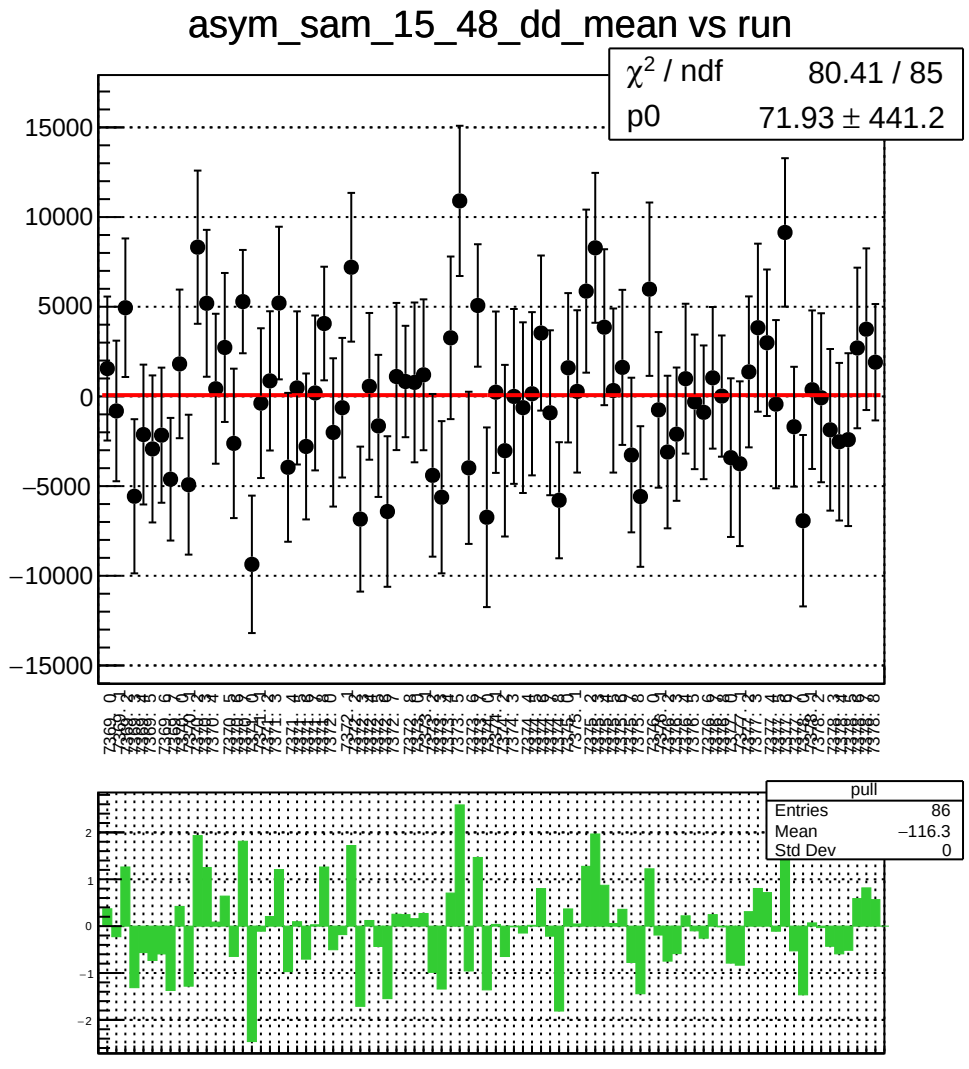

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 112 / 85
p0 −178.8 ± 133.8
pull
Entries 86
Mean 566.8
Std Dev 0

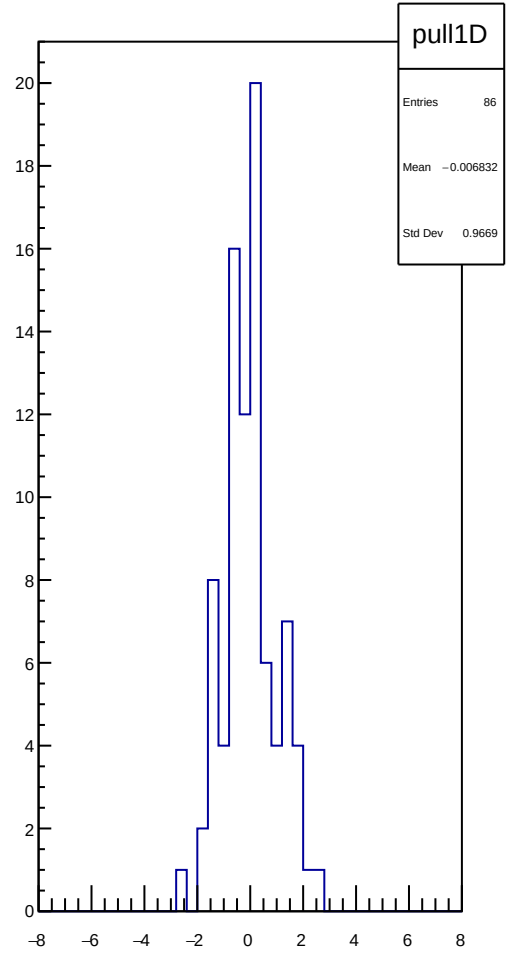

pull1D
Entries 86
Mean 0.003681
Std Dev 1.141

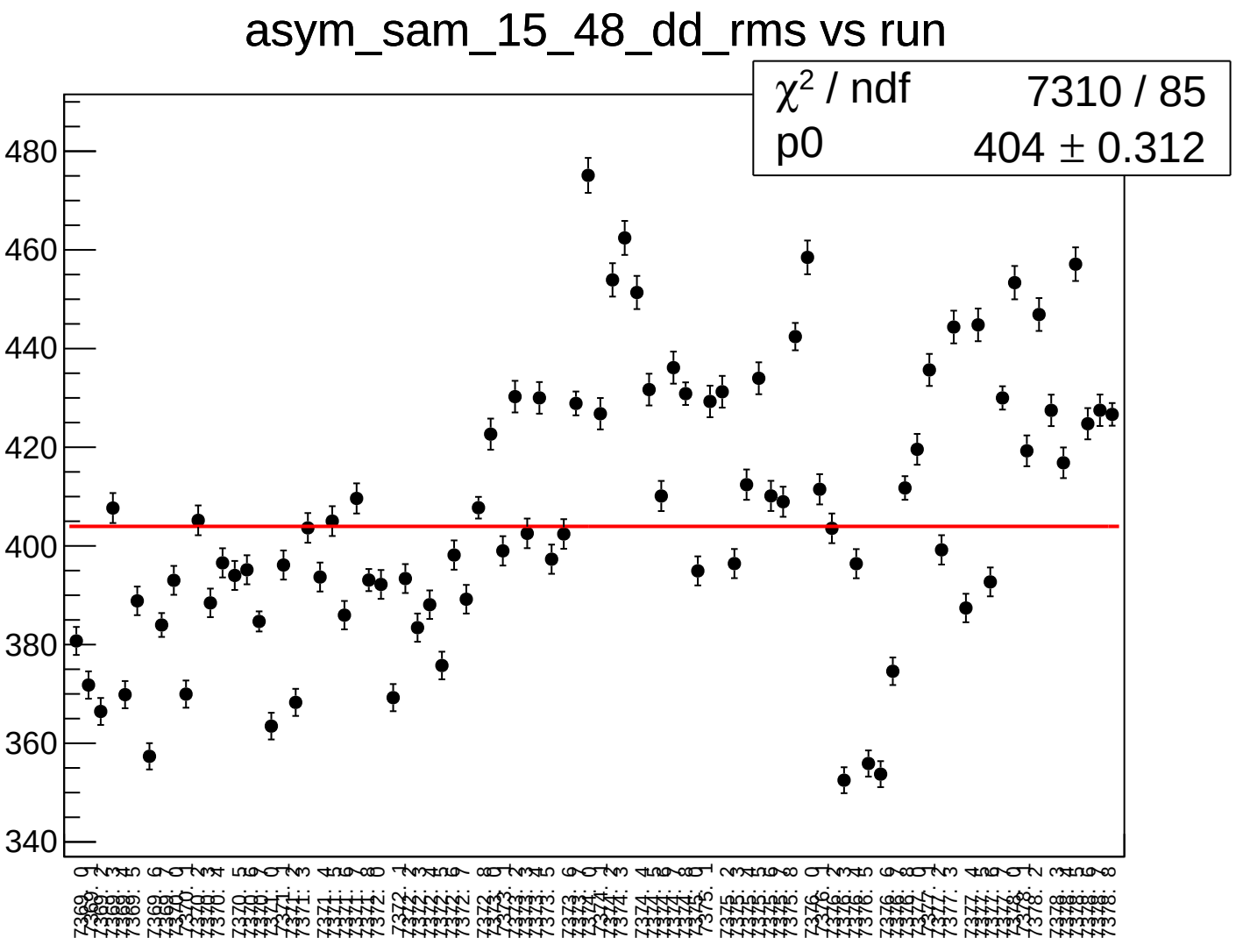

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.626e+05 / 85
p0 116.7 ± 0.09459
240
220
200
180
160
140
120
100
80
60

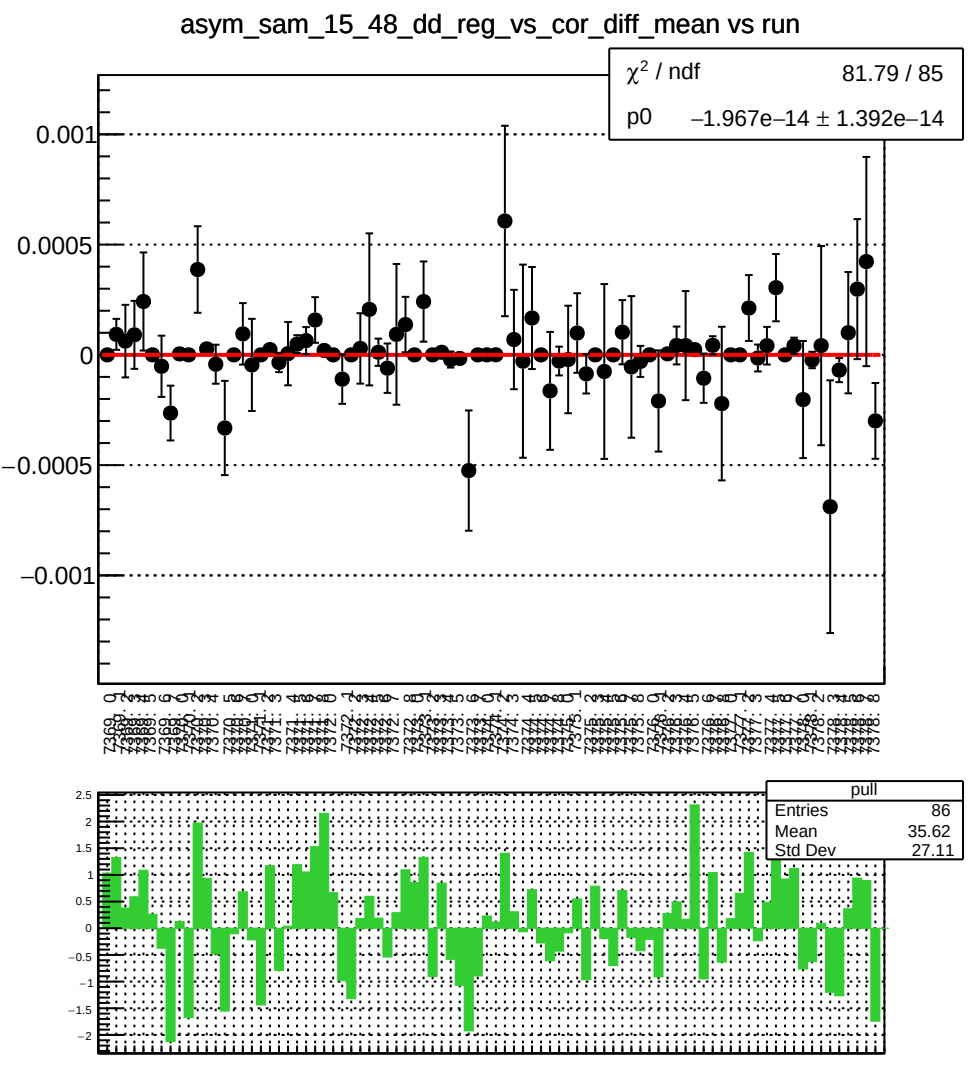

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.7 / 85
p0 −255.1± 462.2
pull
Entries 86
Mean 4.426
Std Dev 0
pull1D
Entries 86
Mean 0.01281
Std Dev 1.082

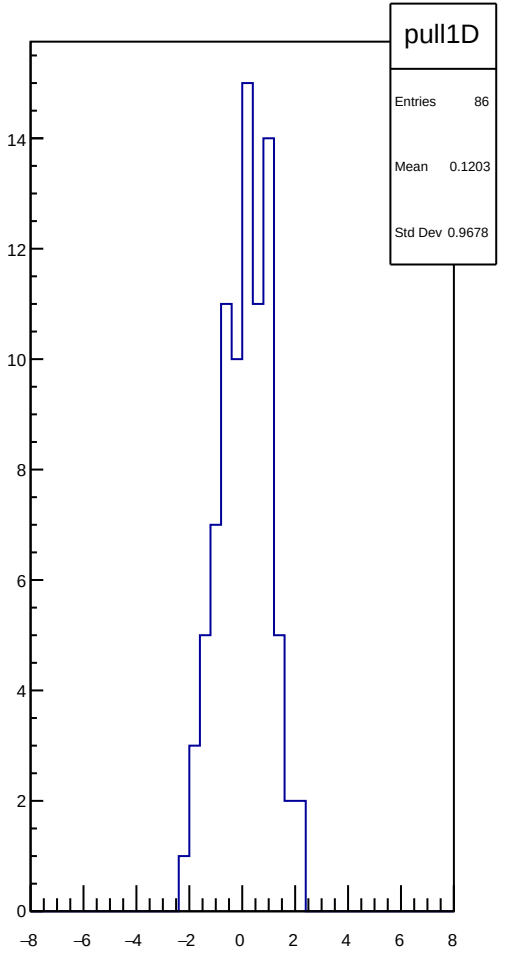

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4127 / 85
p0 423.6 ± 0.3268
500
480
460
440
420
400
380

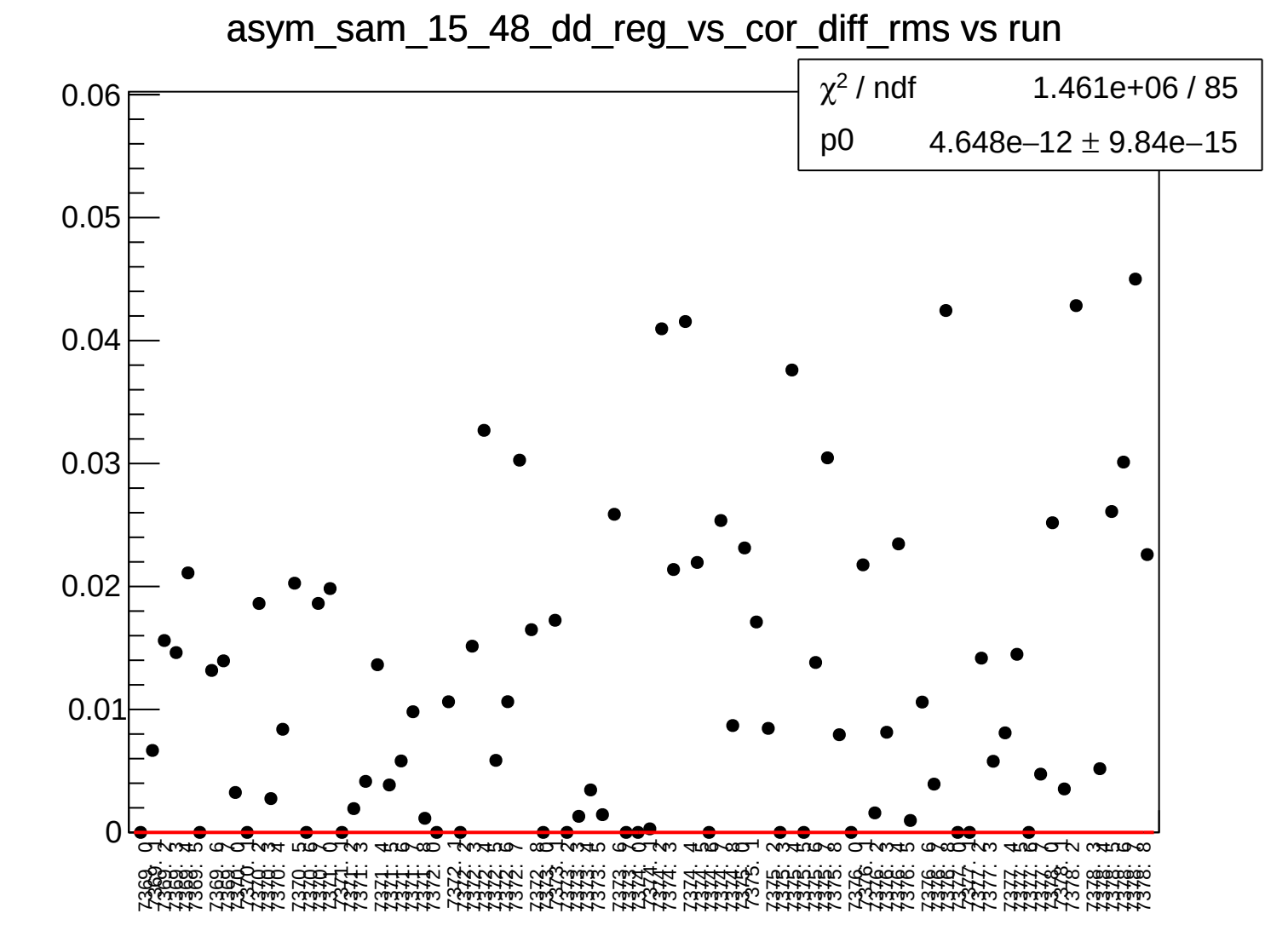

asym_sam_15_48_dd_mean vs run
χ² / ndf 80.41 / 85
p0 71.93 ± 441.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −116.3
Std Dev 0
2
1
0
−1
−2

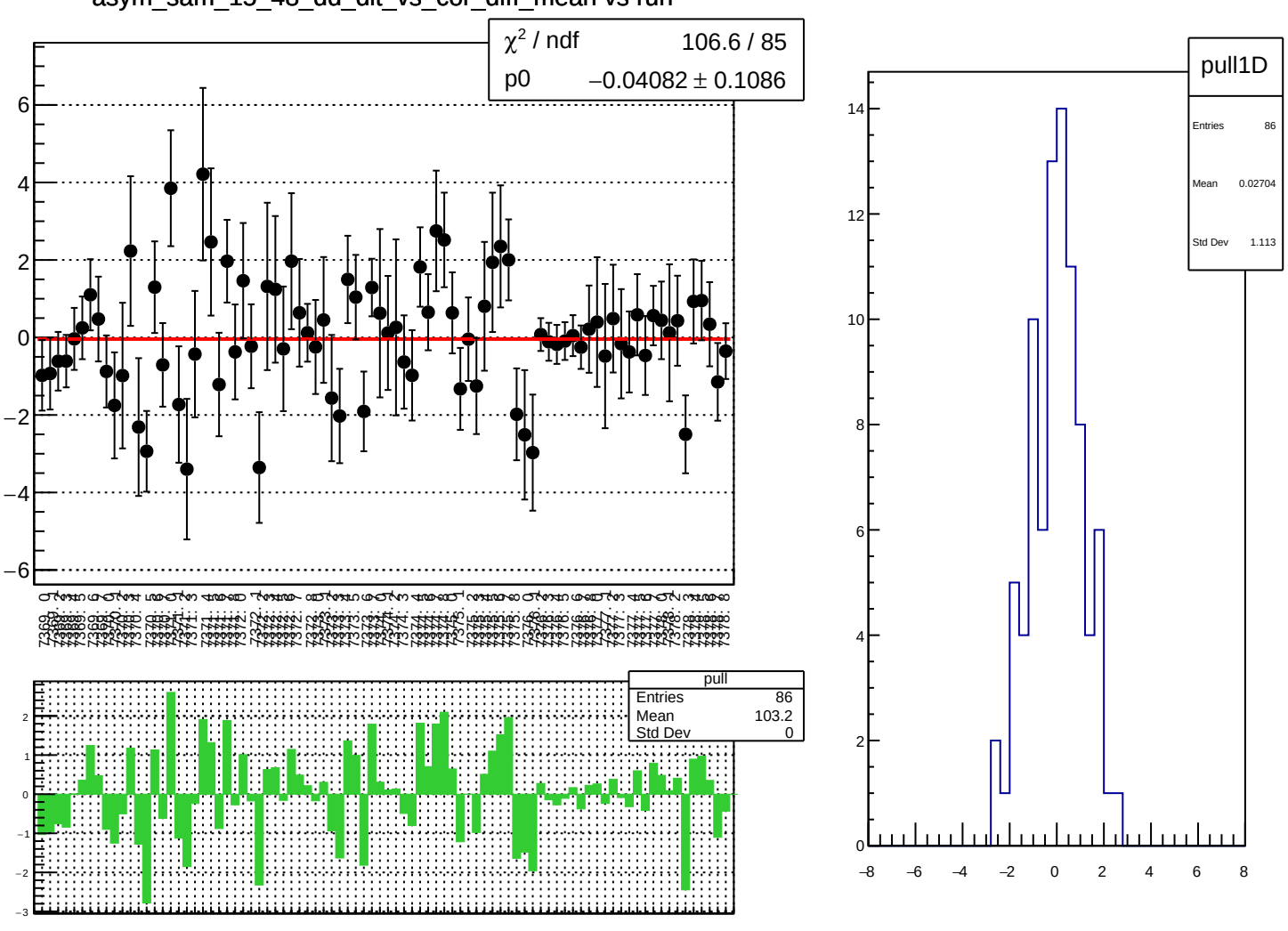

pull1D
Entries 86
Mean −0.006832
Std Dev 0.9669
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

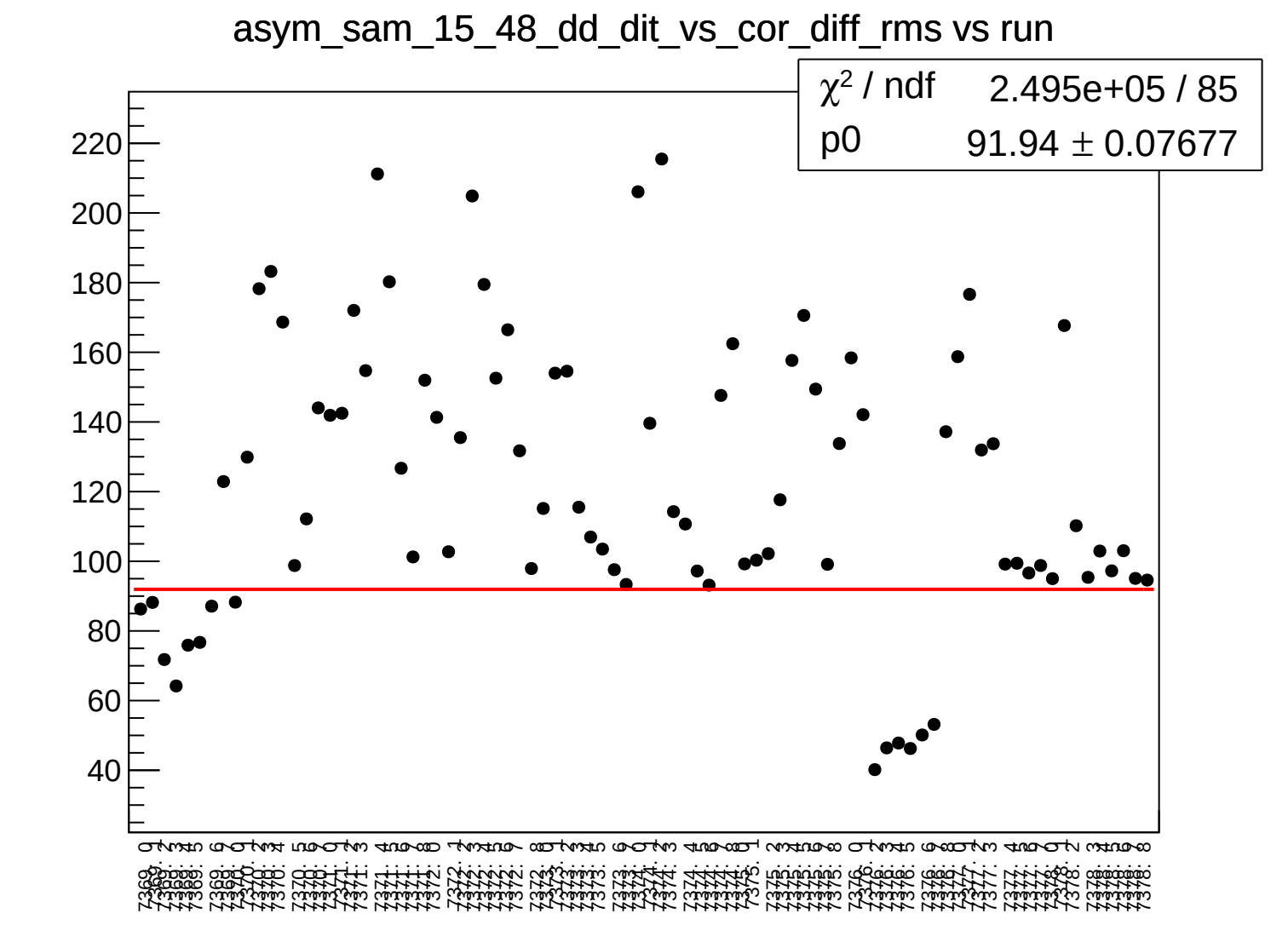

asym_sam_15_48_dd_rms vs run
χ² / ndf 7310 / 85
p0 404 ± 0.312
480
460
440
420
400
380
360
340

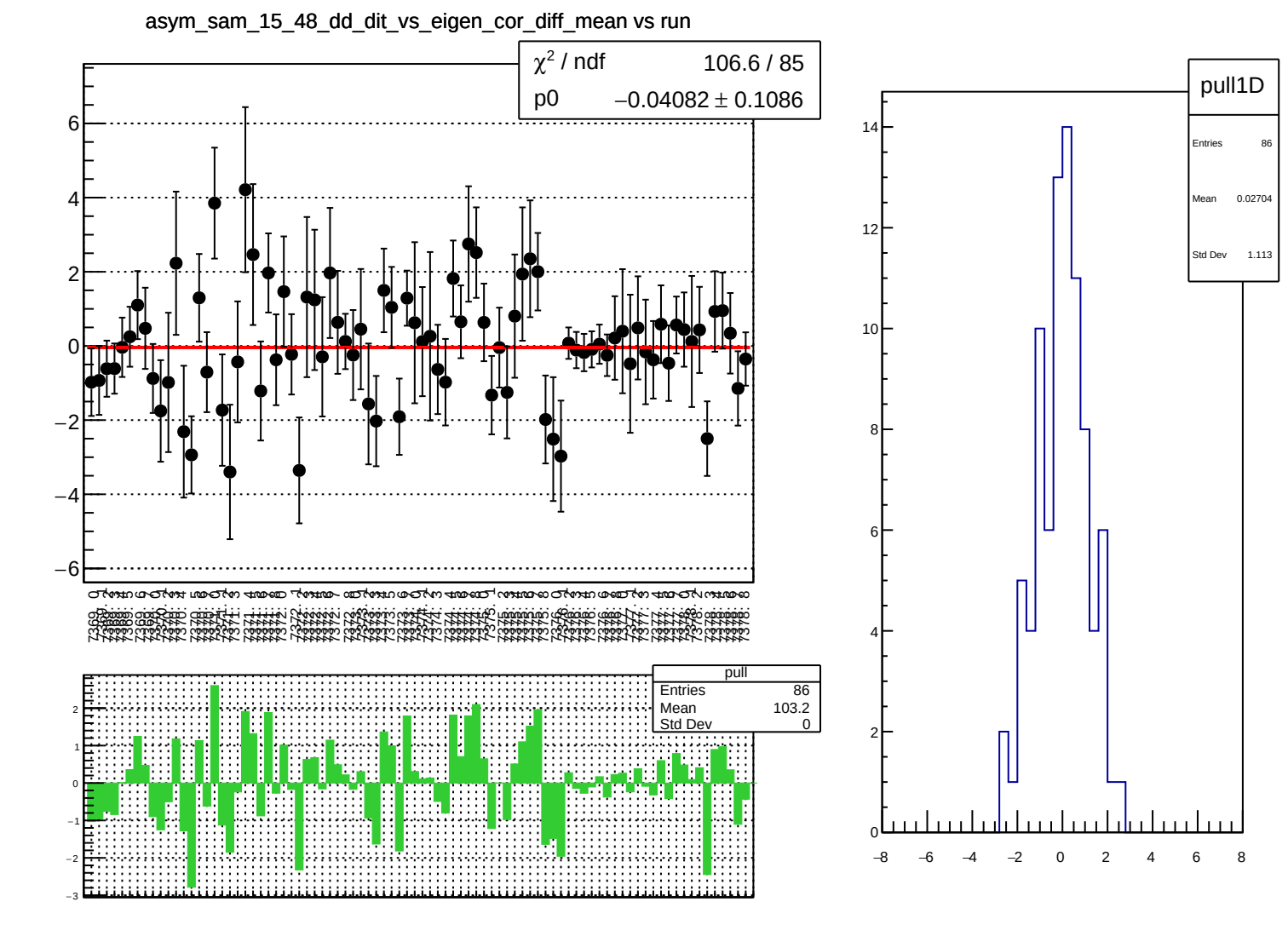

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.79 / 85
p0 −1.967e−14 ± 1.392e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 35.62
Std Dev 27.11
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

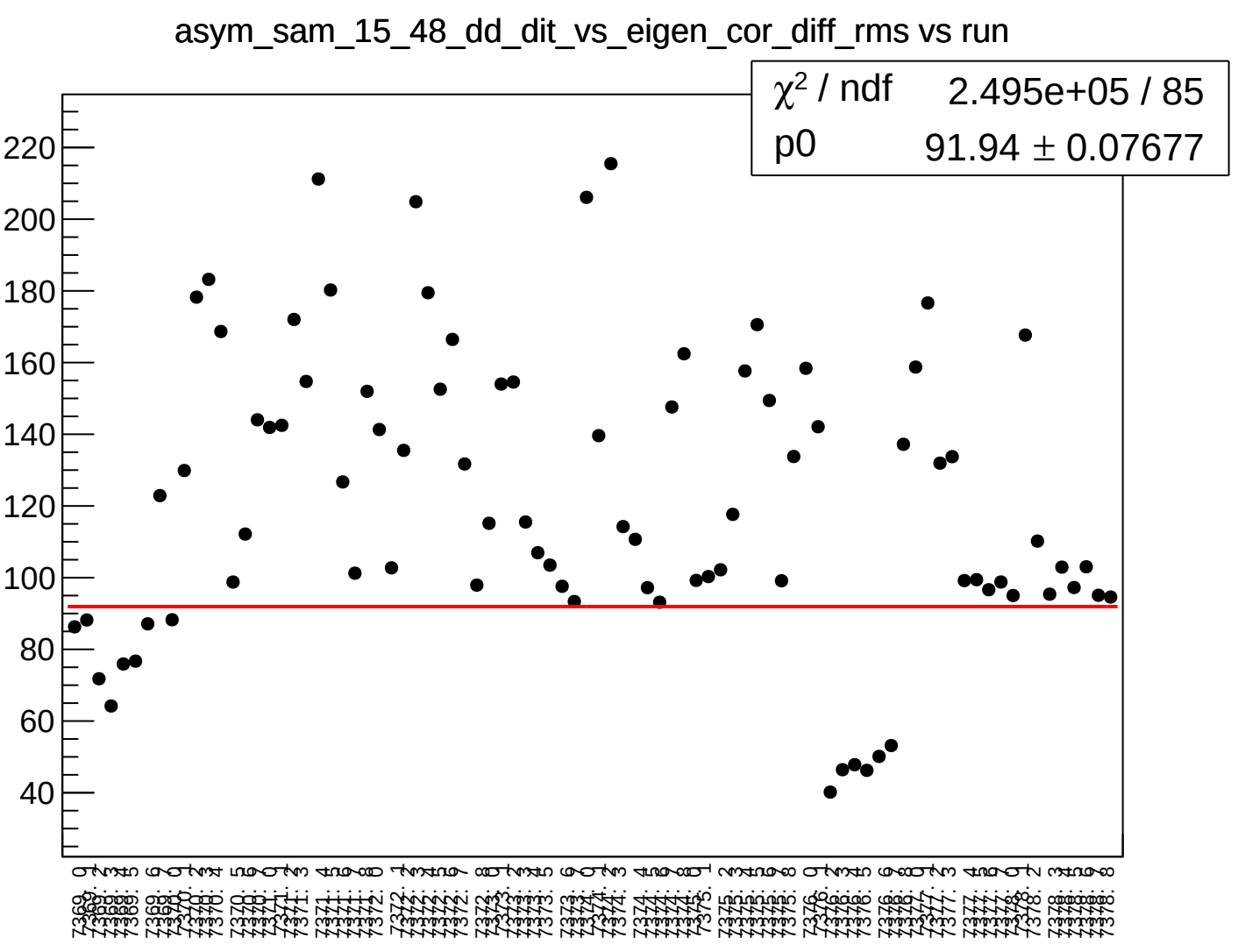

pull1D
Entries 86
Mean 0.1203
Std Dev 0.9678
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

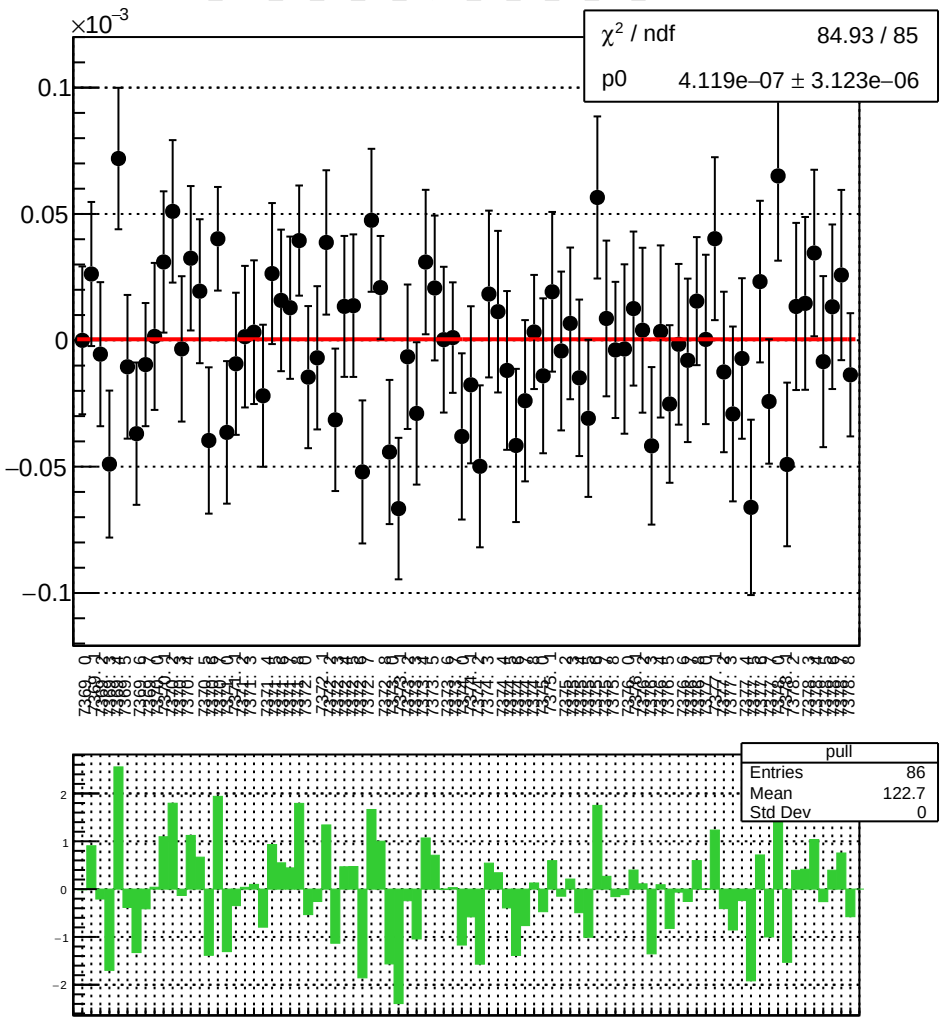

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.461e+06 / 85
p0 4.648e−12 ± 9.84e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

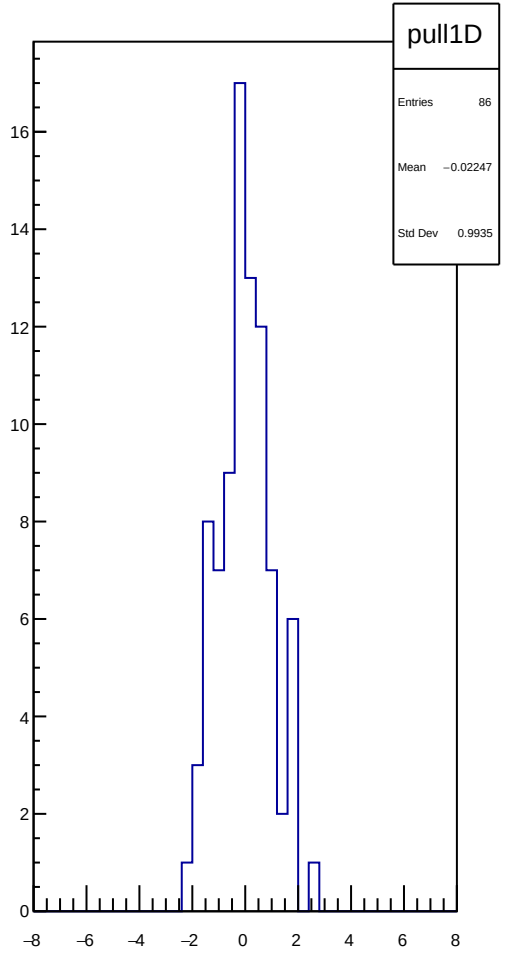

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 85
p0 −0.04082 ± 0.1086
pull
Entries 86
Mean 103.2
Std Dev 0
pull1D
Entries 86
Mean 0.02704
Std Dev 1.113

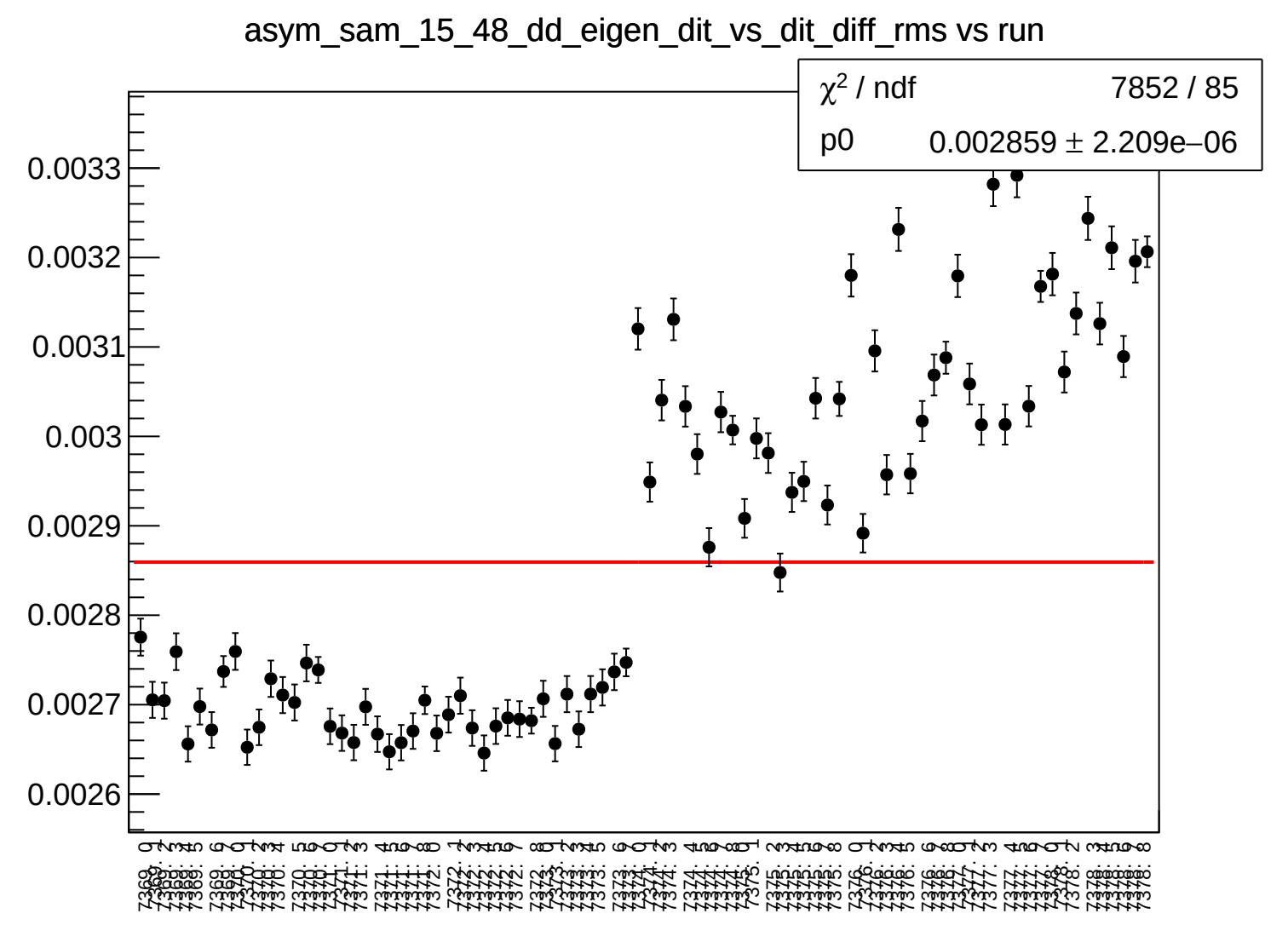

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 85
p0 91.94 ± 0.07677
220
200
180
160
140
120
100
80
60
40

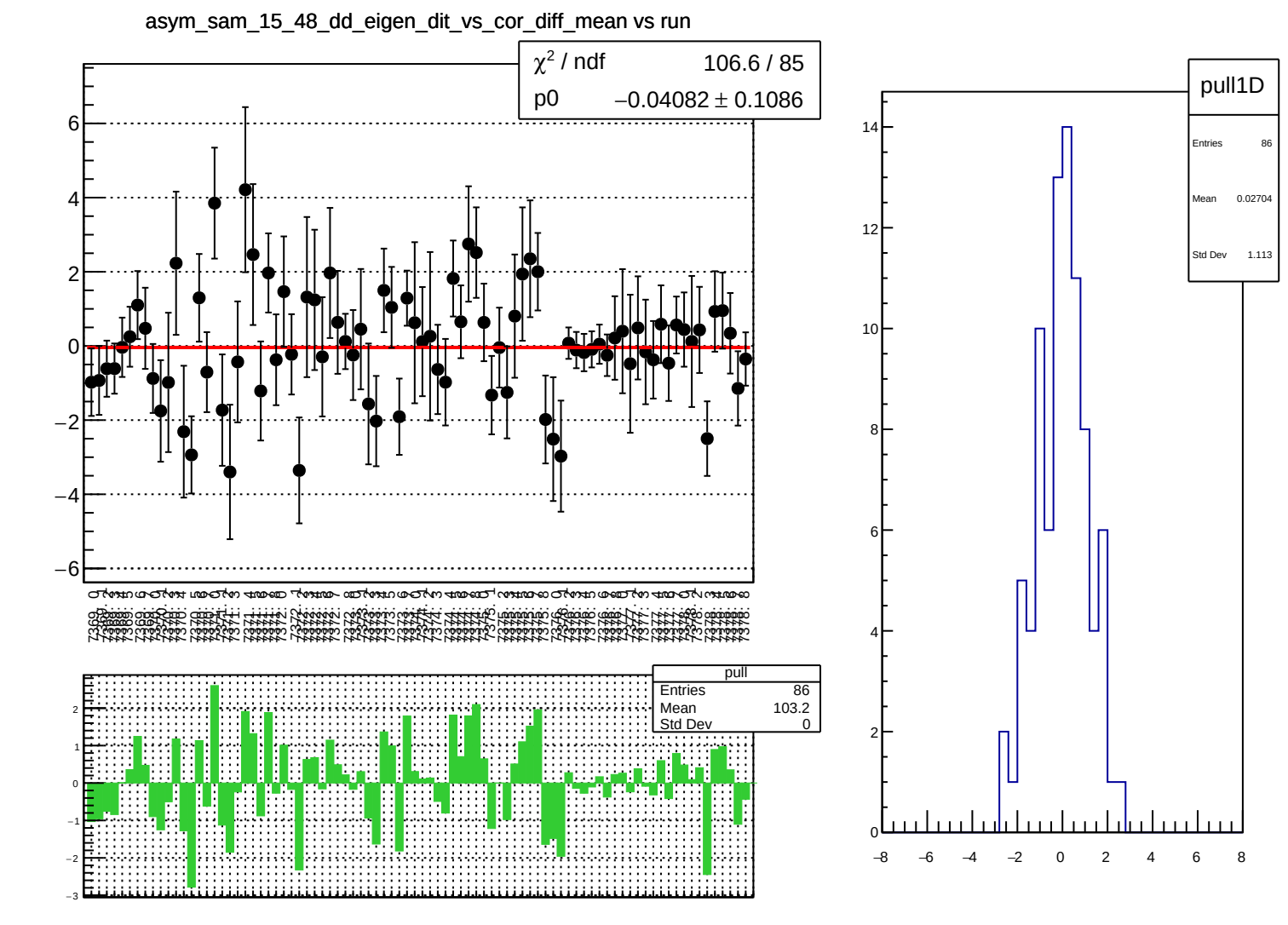

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 85
p0 −0.04082 ± 0.1086
pull
Entries 86
Mean 103.2
Std Dev 0
pull1D
Entries 86
Mean 0.02704
Std Dev 1.113

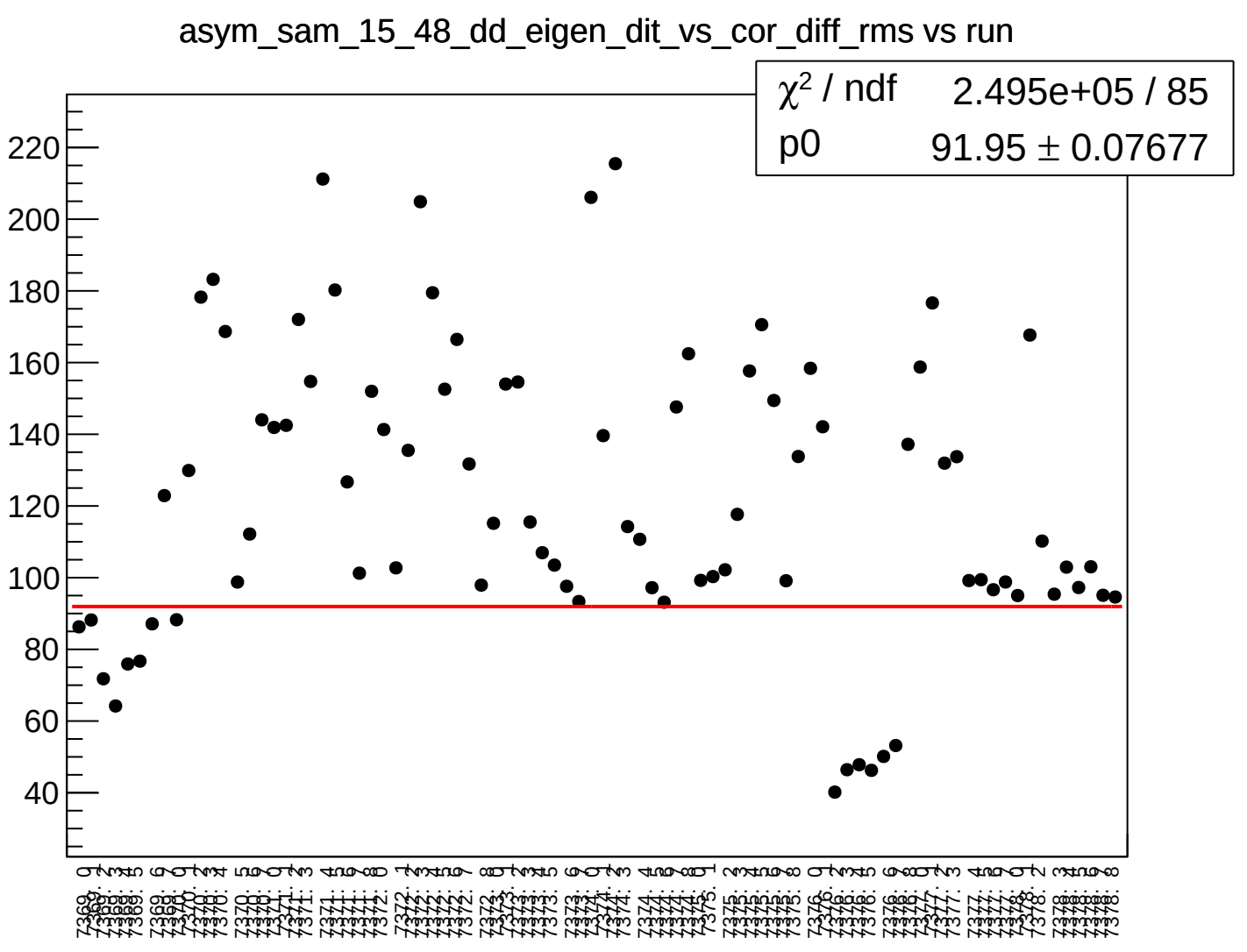

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 85
p0 91.94 ± 0.07677
220
200
180
160
140
120
100
80
60
40


asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.93 / 85
p0 4.119e−07 ± 3.123e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean 122.7
Std Dev 0
2
1
0
−1
−2

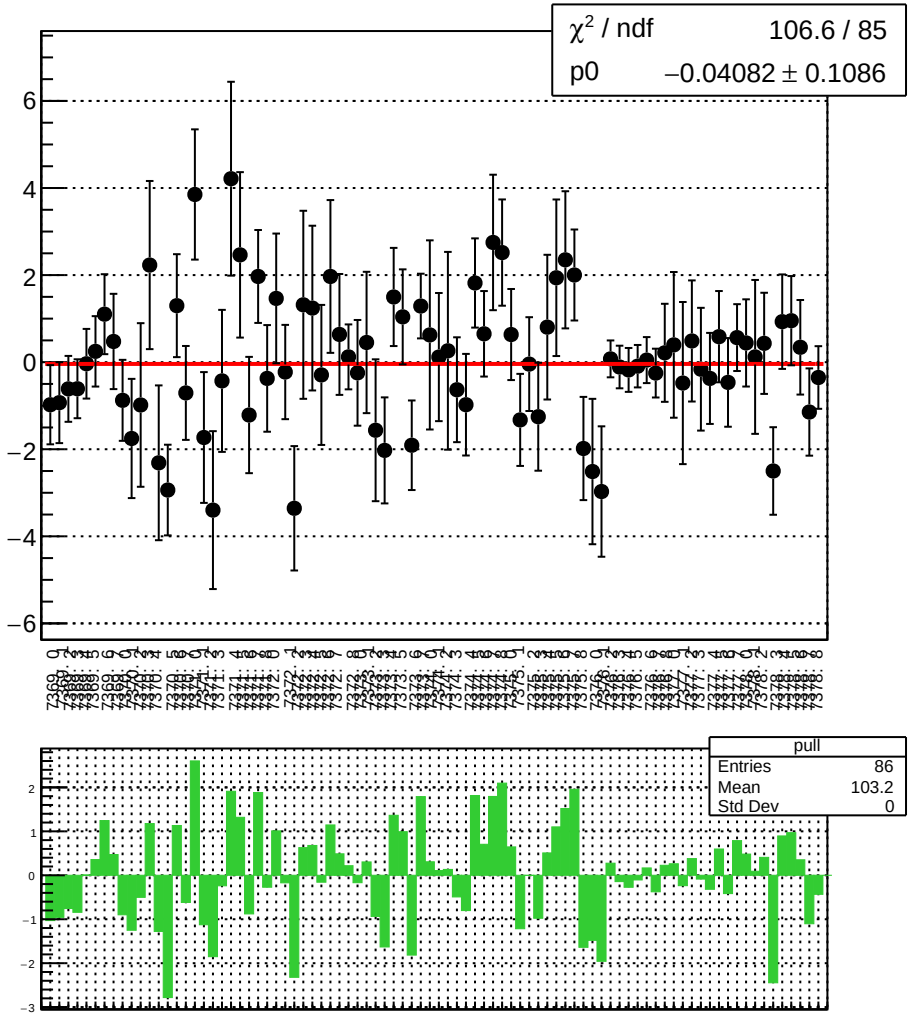

pull1D
Entries 86
Mean −0.02247
Std Dev 0.9935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

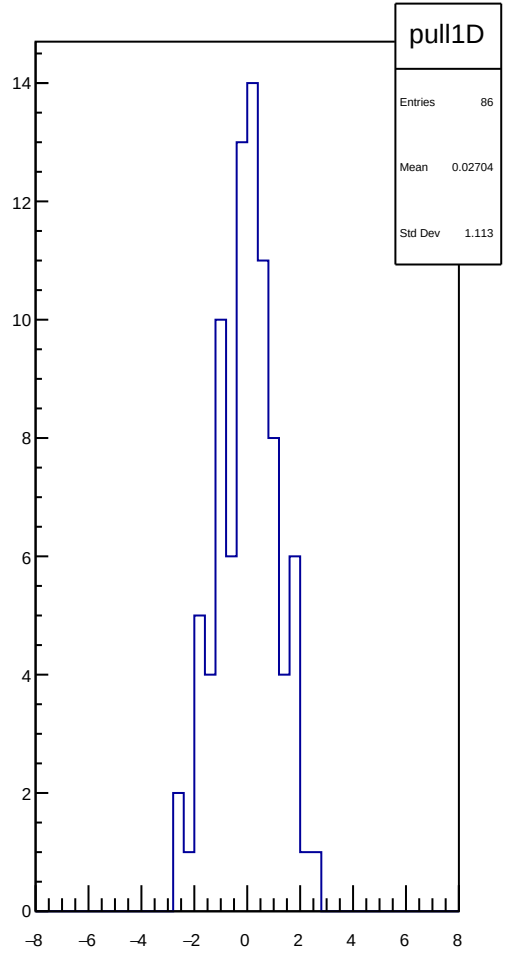

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7852 / 85
p0 0.002859 ± 2.209e−06
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026

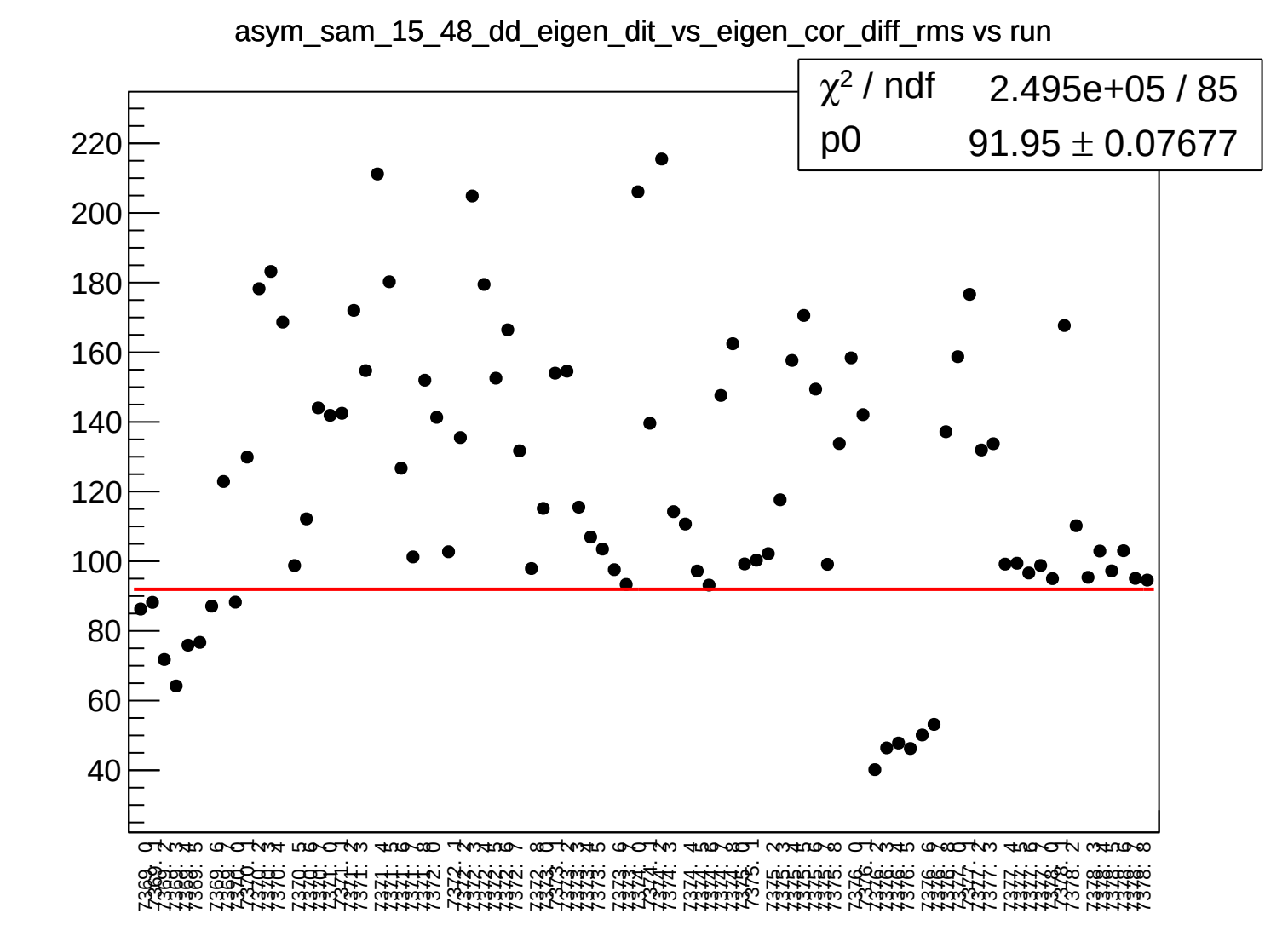

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 85
p0 −0.04082 ± 0.1086
pull
Entries 86
Mean 103.2
Std Dev 0
pull1D
Entries 86
Mean 0.02704
Std Dev 1.113

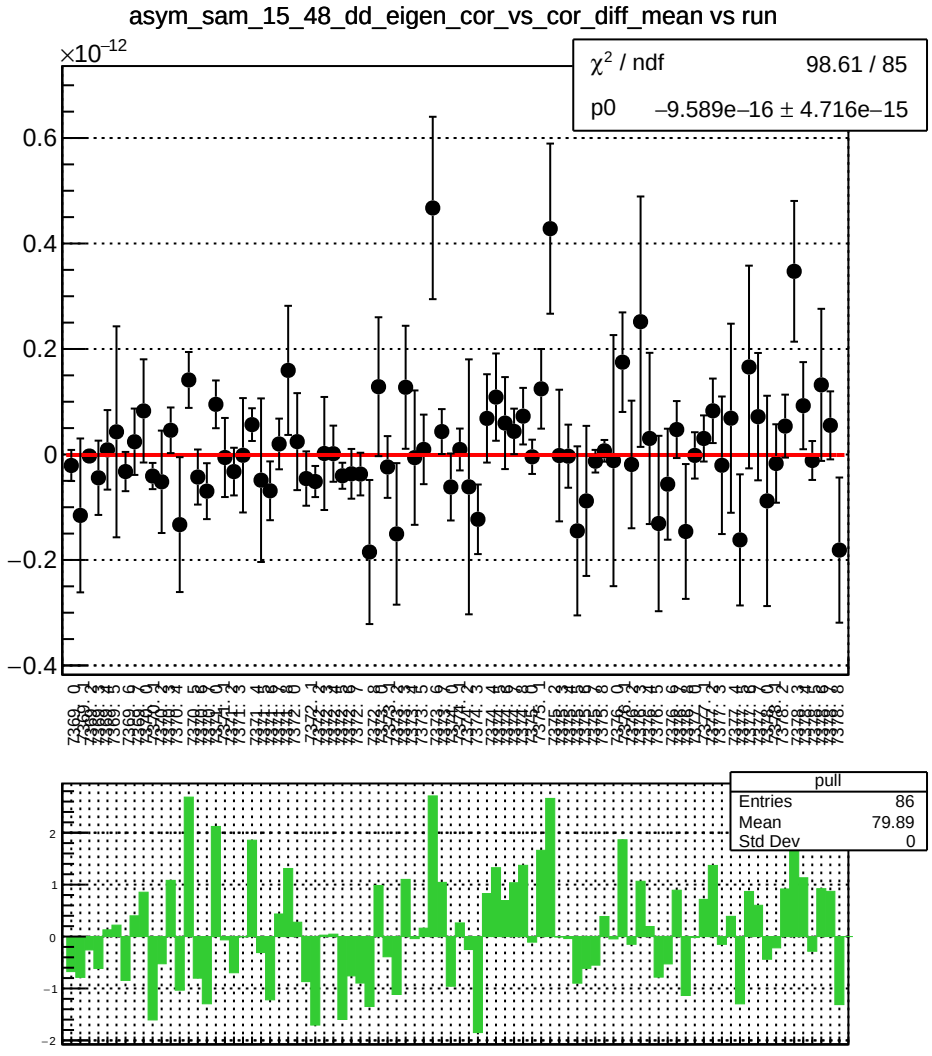

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 85
p0 91.95 ± 0.07677
220
200
180
160
140
120
100
80
60
40

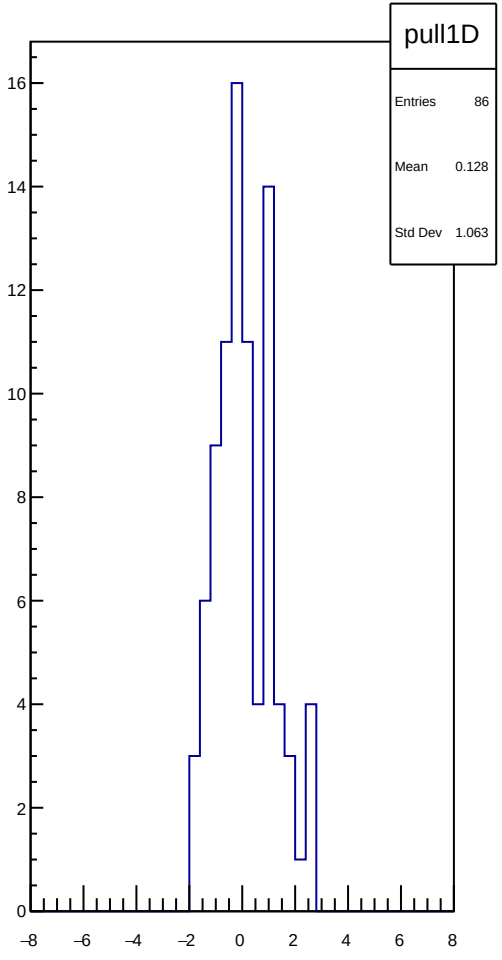
asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

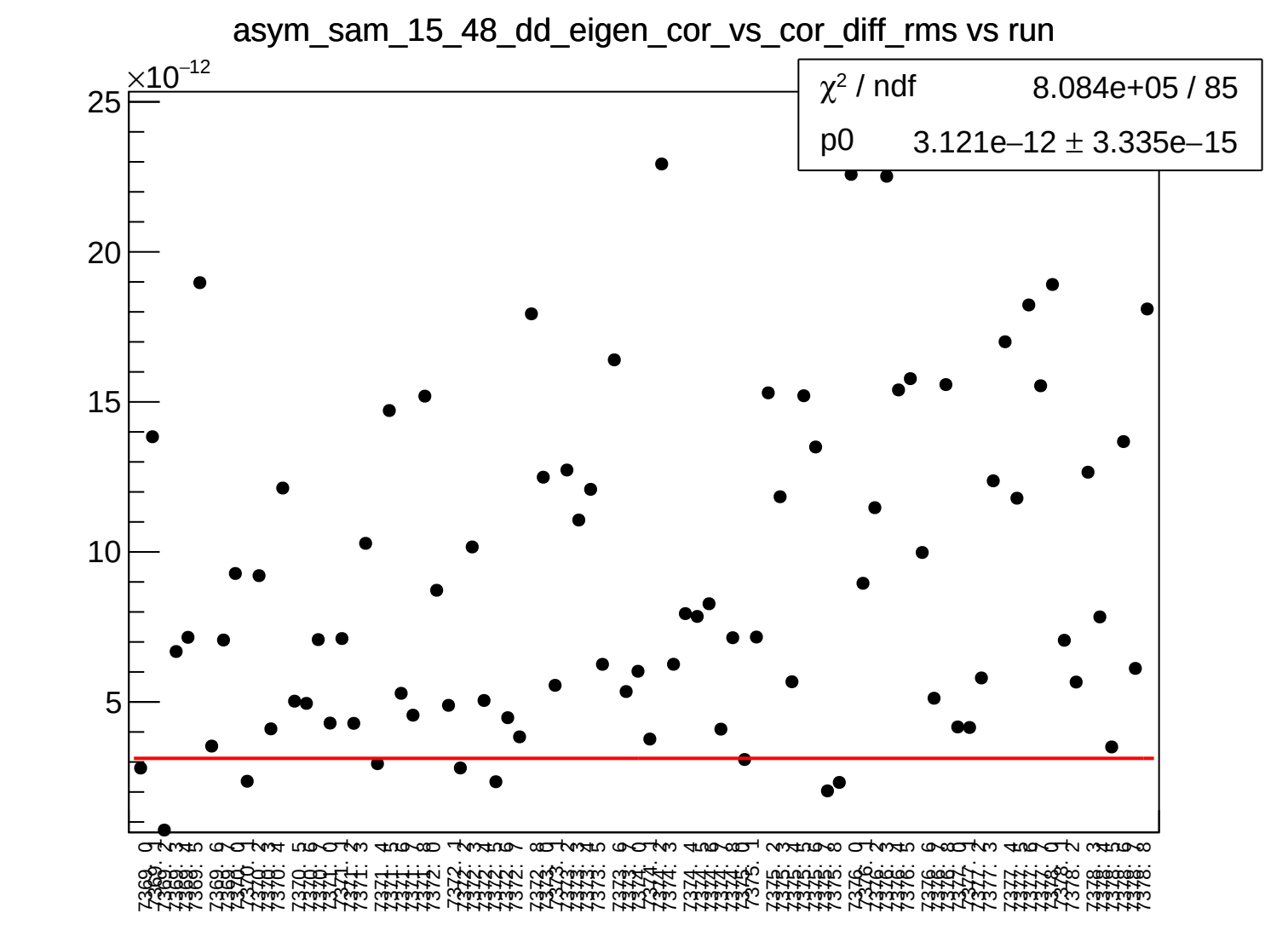


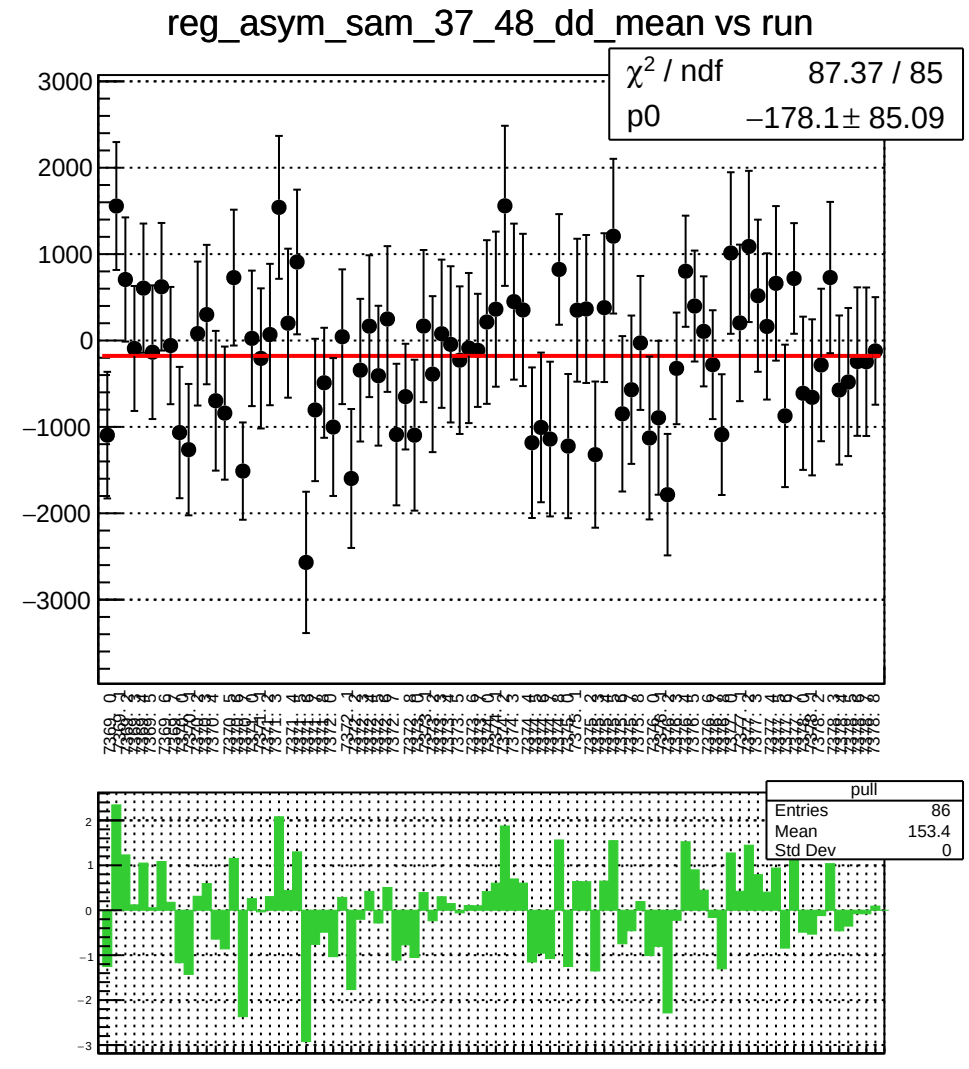


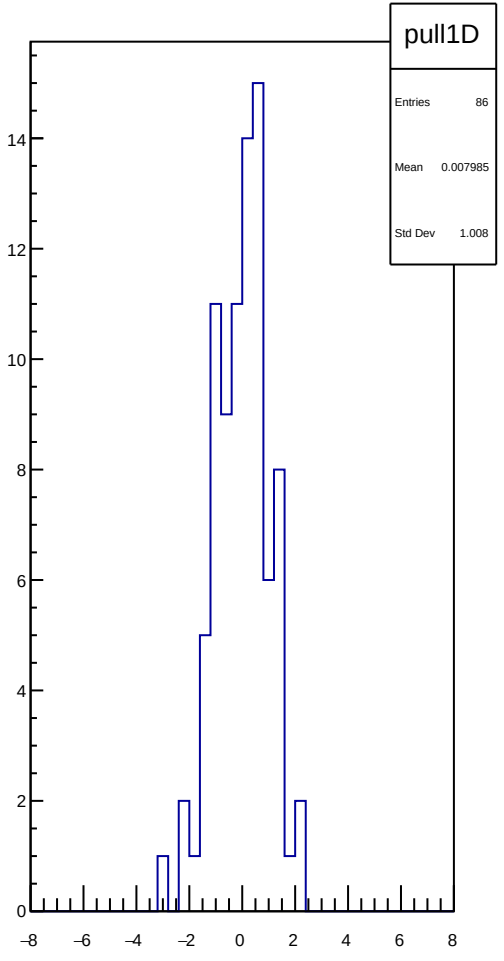

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.495e+05 / 85
p0 91.95 ± 0.07677
220
200
180
160
140
120
100
80
60
40

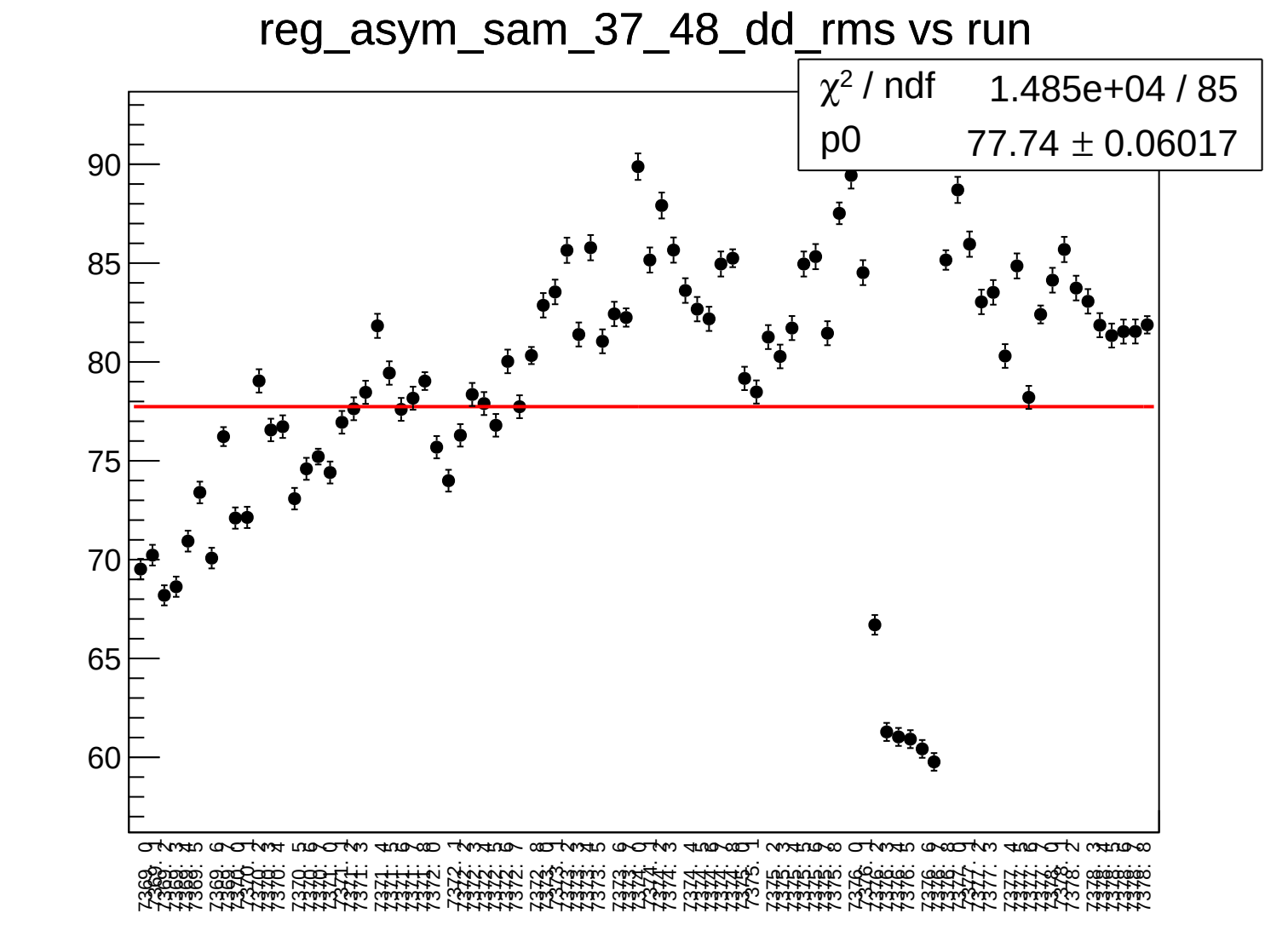

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.61 / 85
p0 −9.589e−16 ± 4.716e−15
pull
Entries 86
Mean 79.89
Std Dev 0

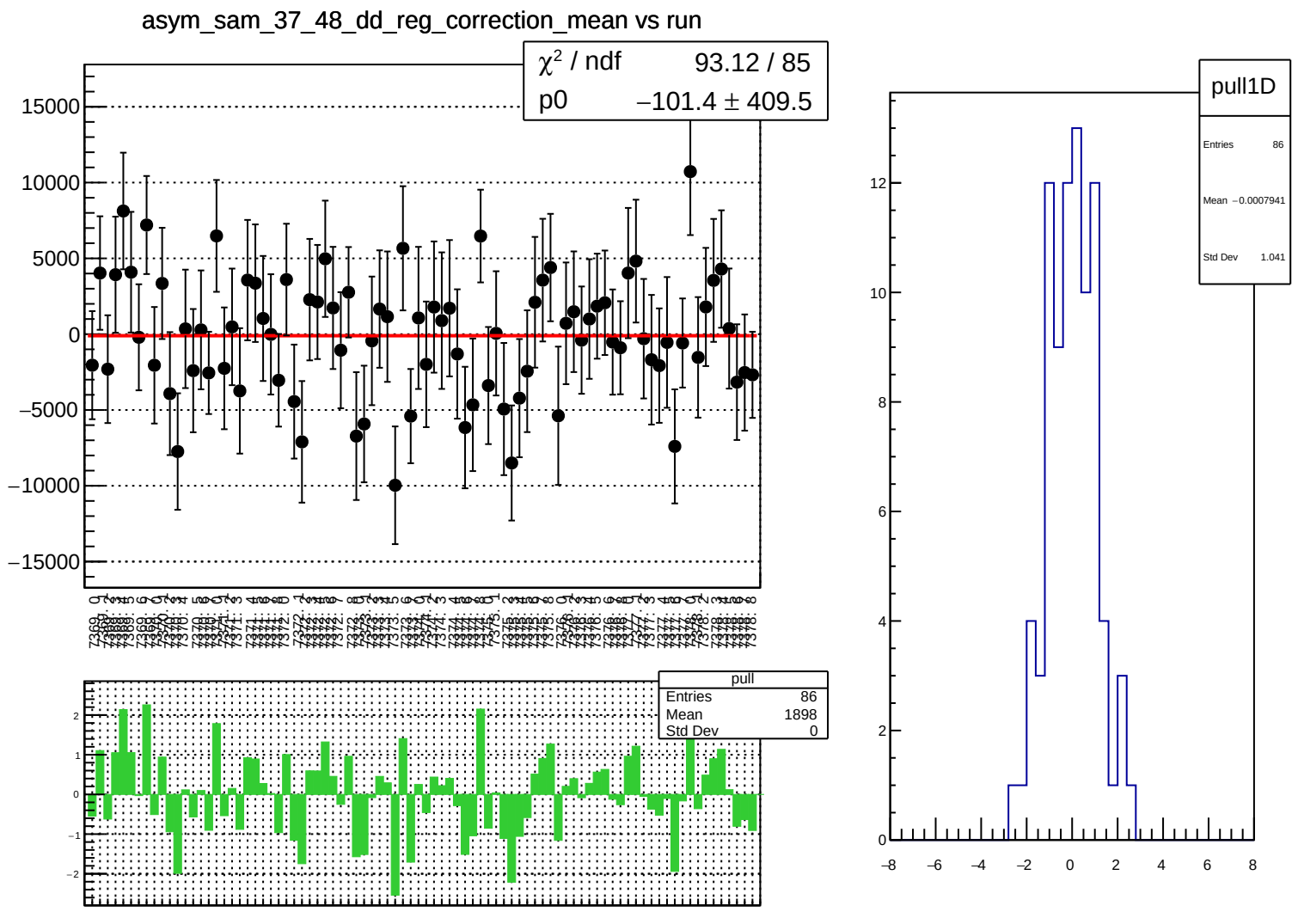

pull1D
Entries 86
Mean 0.128
Std Dev 1.063

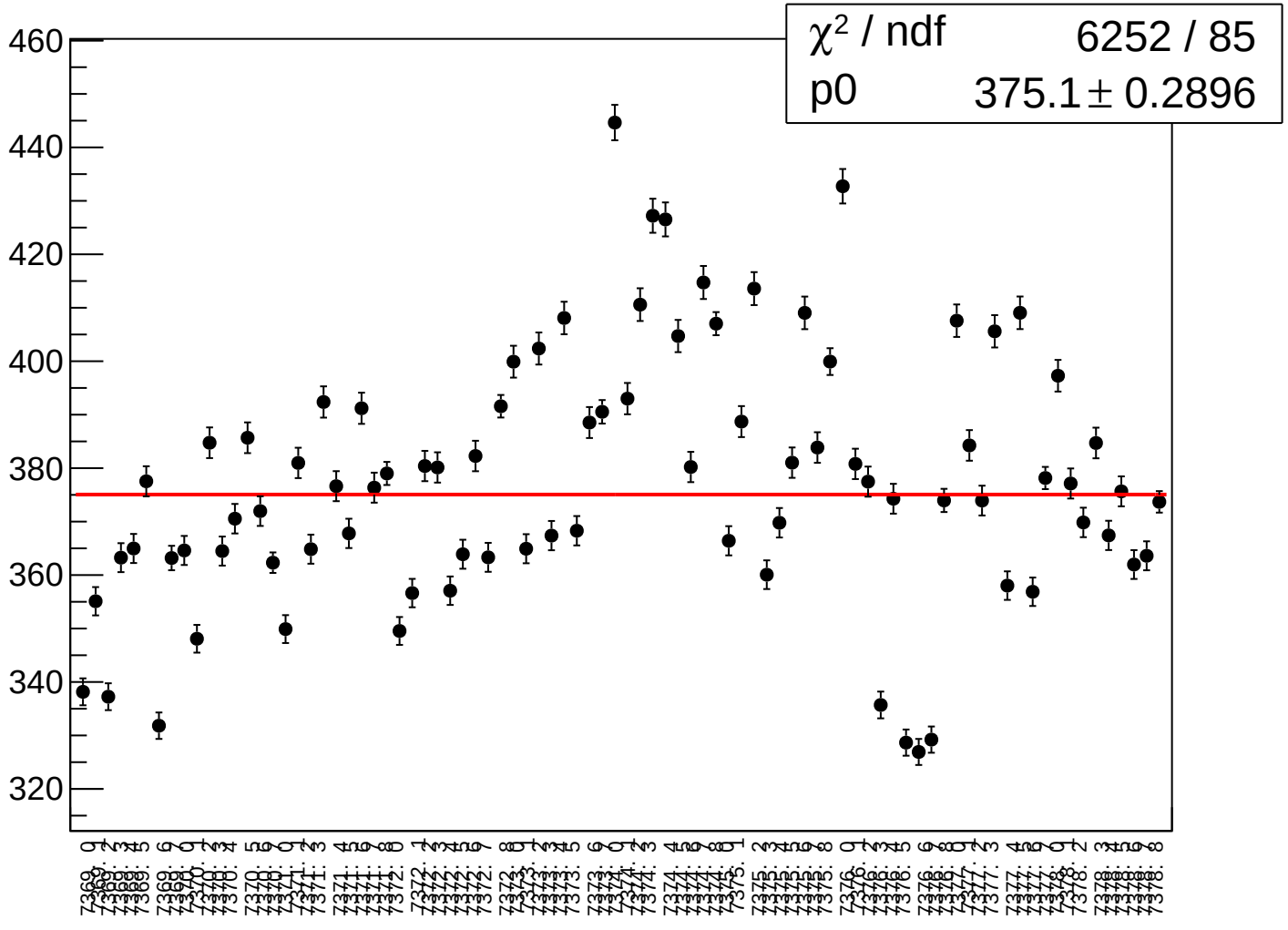

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
25
20
15
10
5
χ² / ndf 8.084e+05 / 85
p0 3.121e−12 ± 3.335e−15

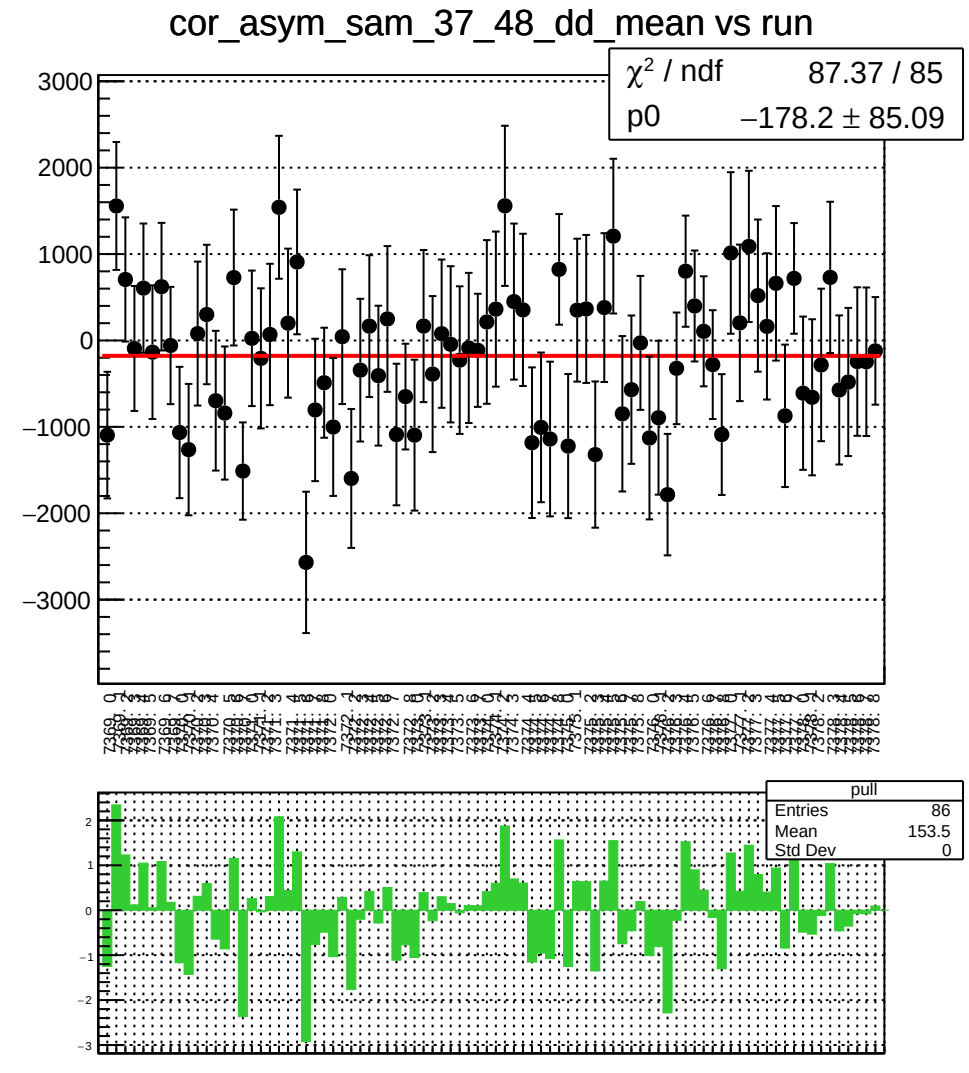

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 87.37 / 85
p0 −178.1± 85.09
pull
Entries 86
Mean 153.4
Std Dev 0

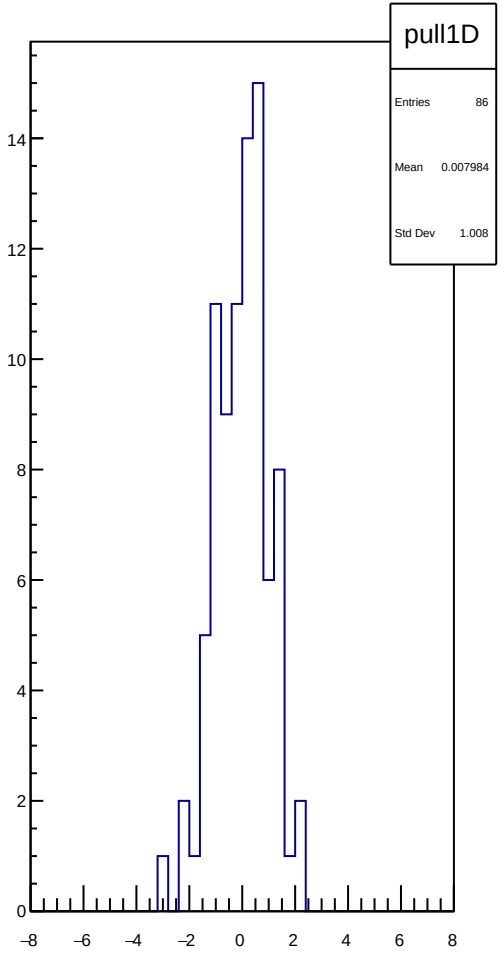

pull1D
Entries 86
Mean 0.007985
Std Dev 1.008

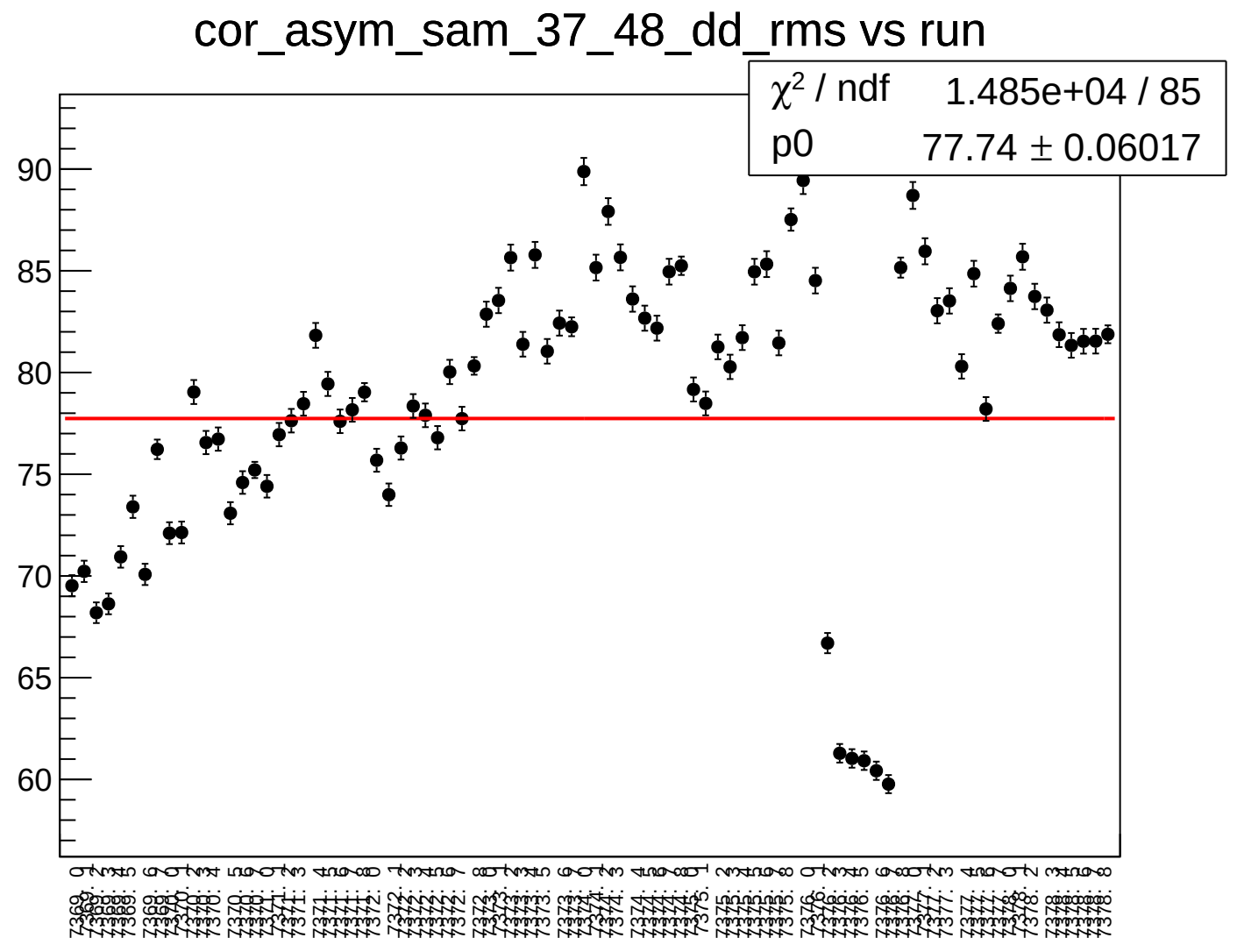

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.485e+04 / 85
p0 77.74 ± 0.06017
90
85
80
75
70
65
60

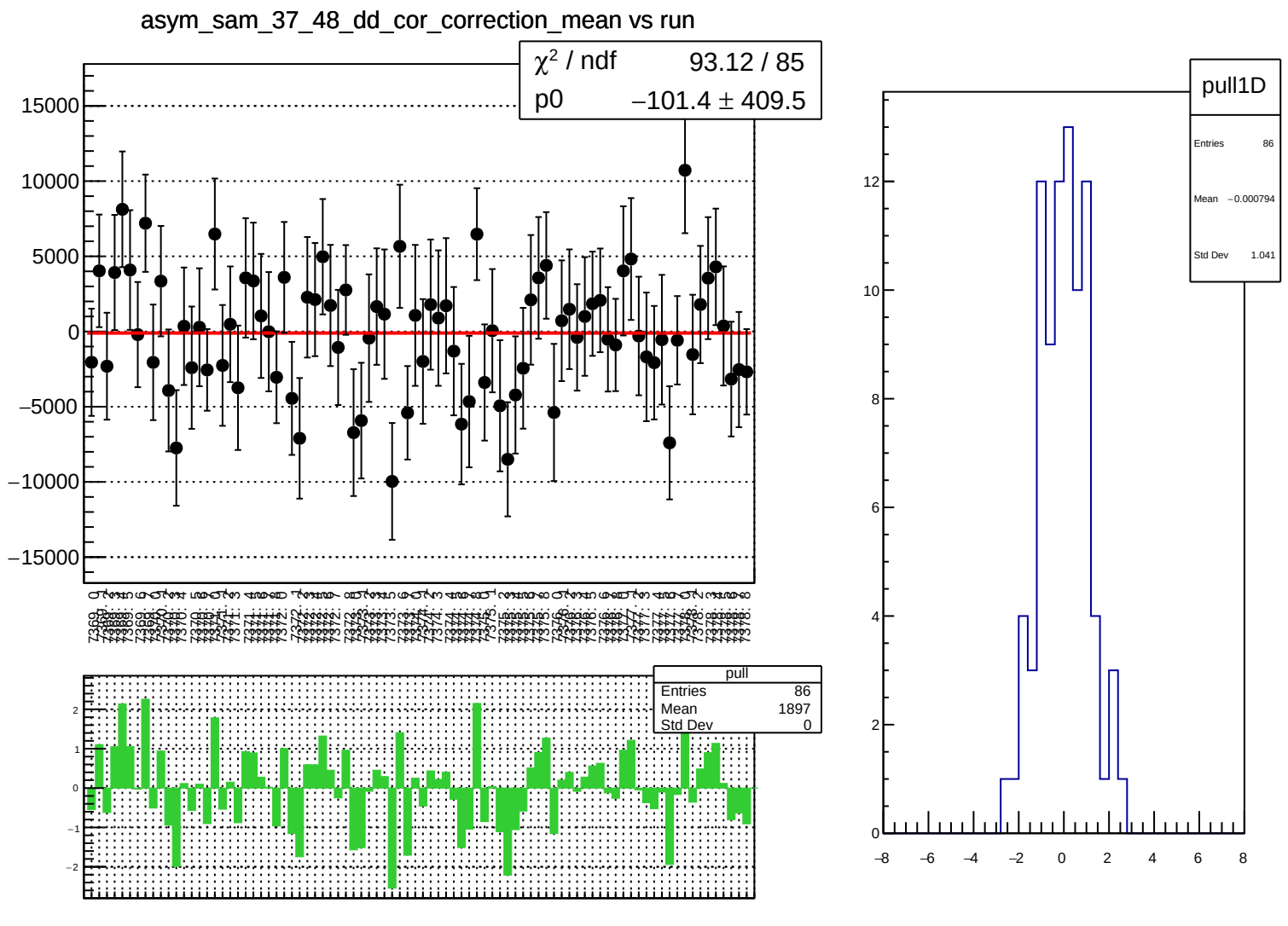

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 93.12 / 85
p0 −101.4 ± 409.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 1898
Std Dev 0
pull1D
Entries 86
Mean −0.0007941
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

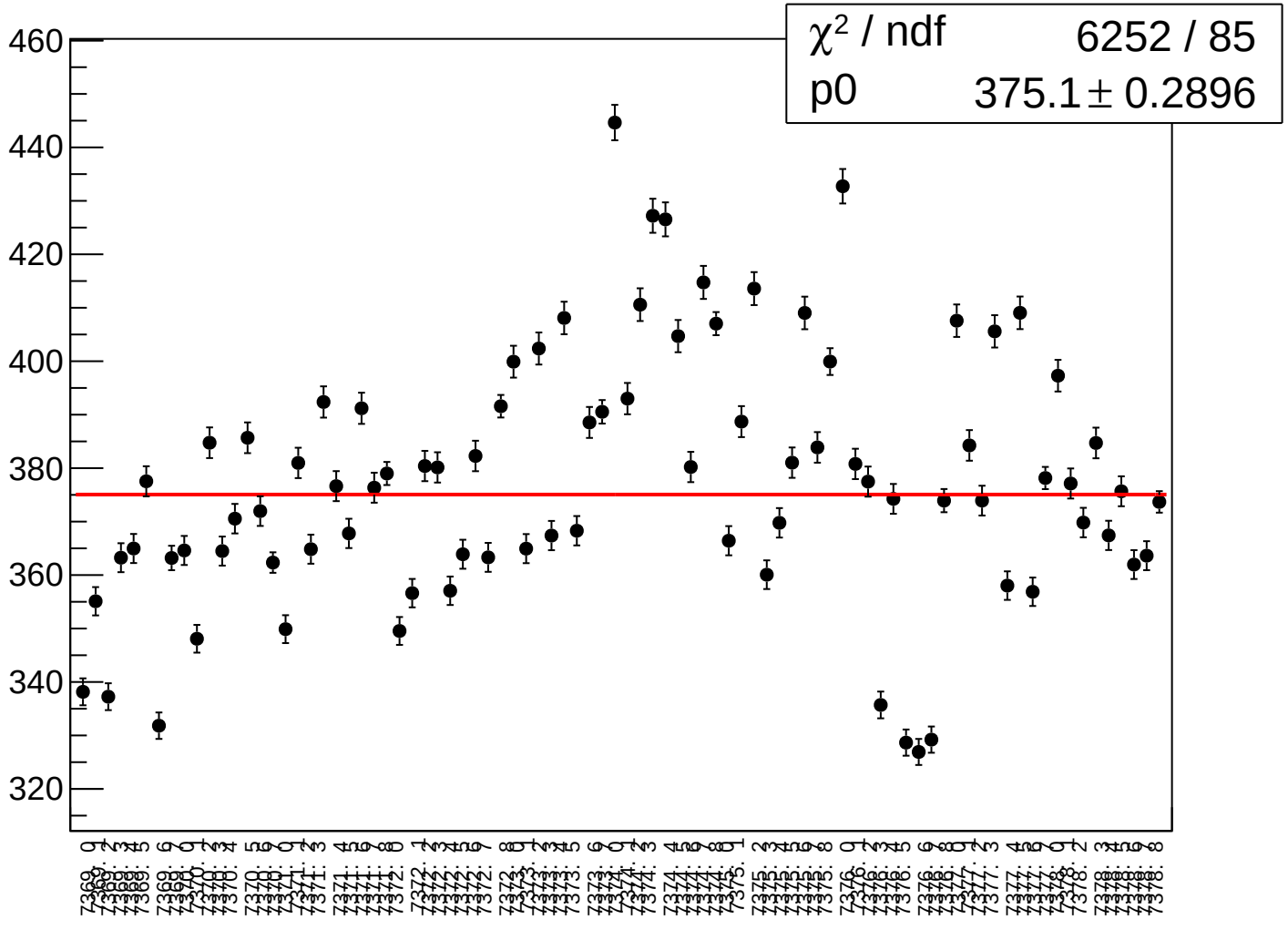

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 6252 / 85
p0 375.1 ± 0.2896
460
440
420
400
380
360
340
320

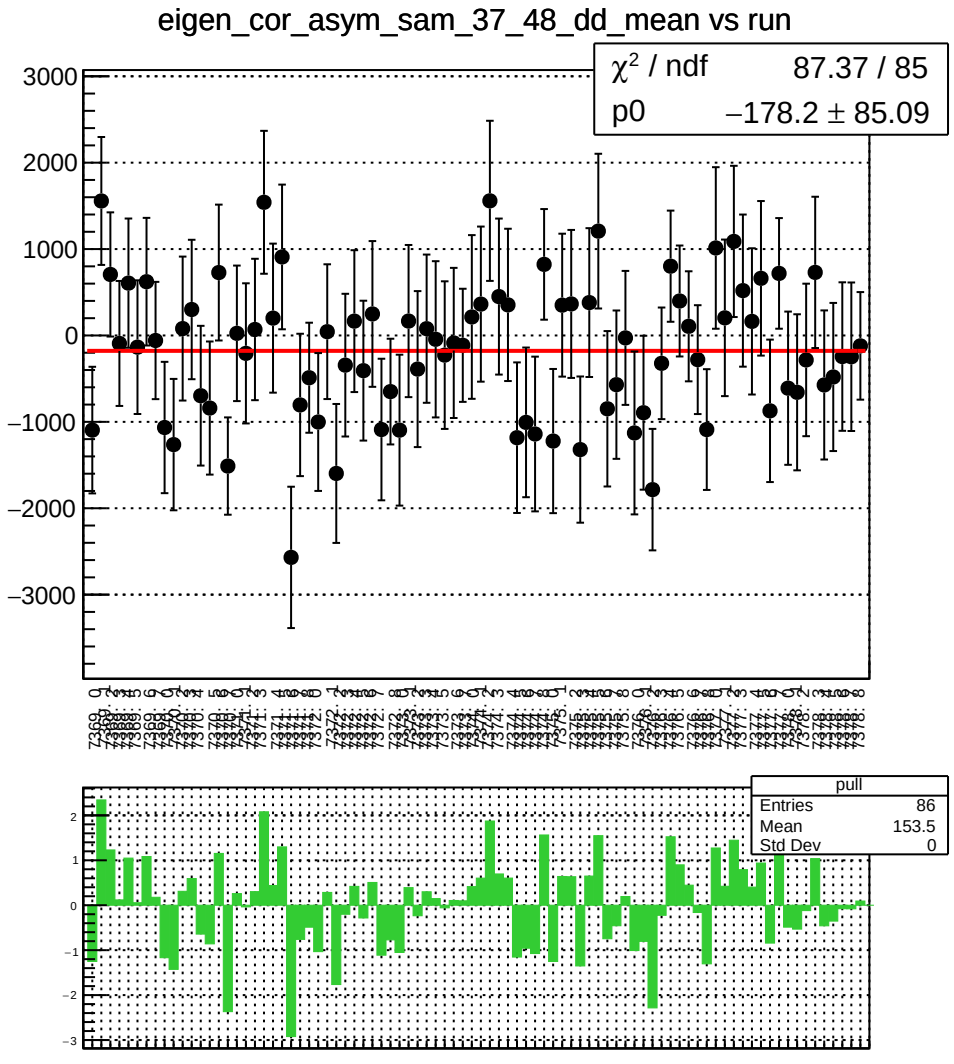

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 87.37 / 85
p0 −178.2 ± 85.09
pull
Entries 86
Mean 153.5
Std Dev 0

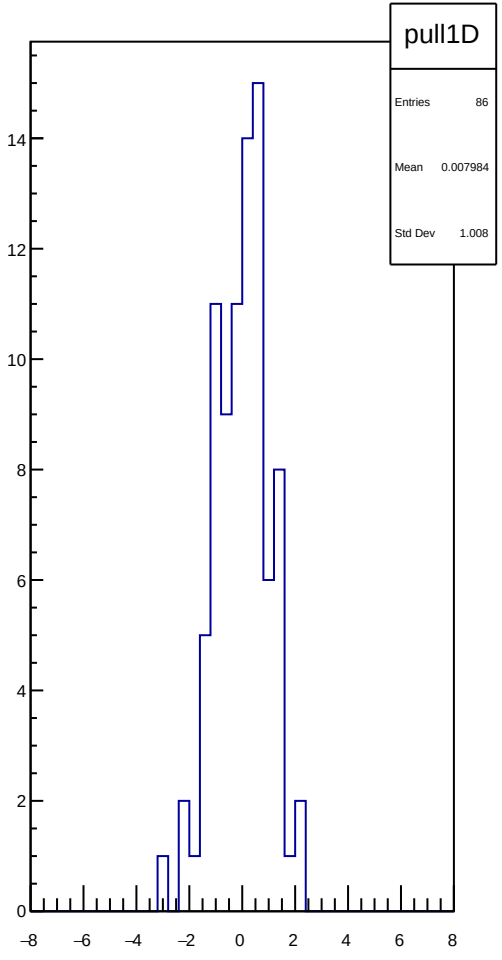

pull1D
Entries 86
Mean 0.007984
Std Dev 1.008

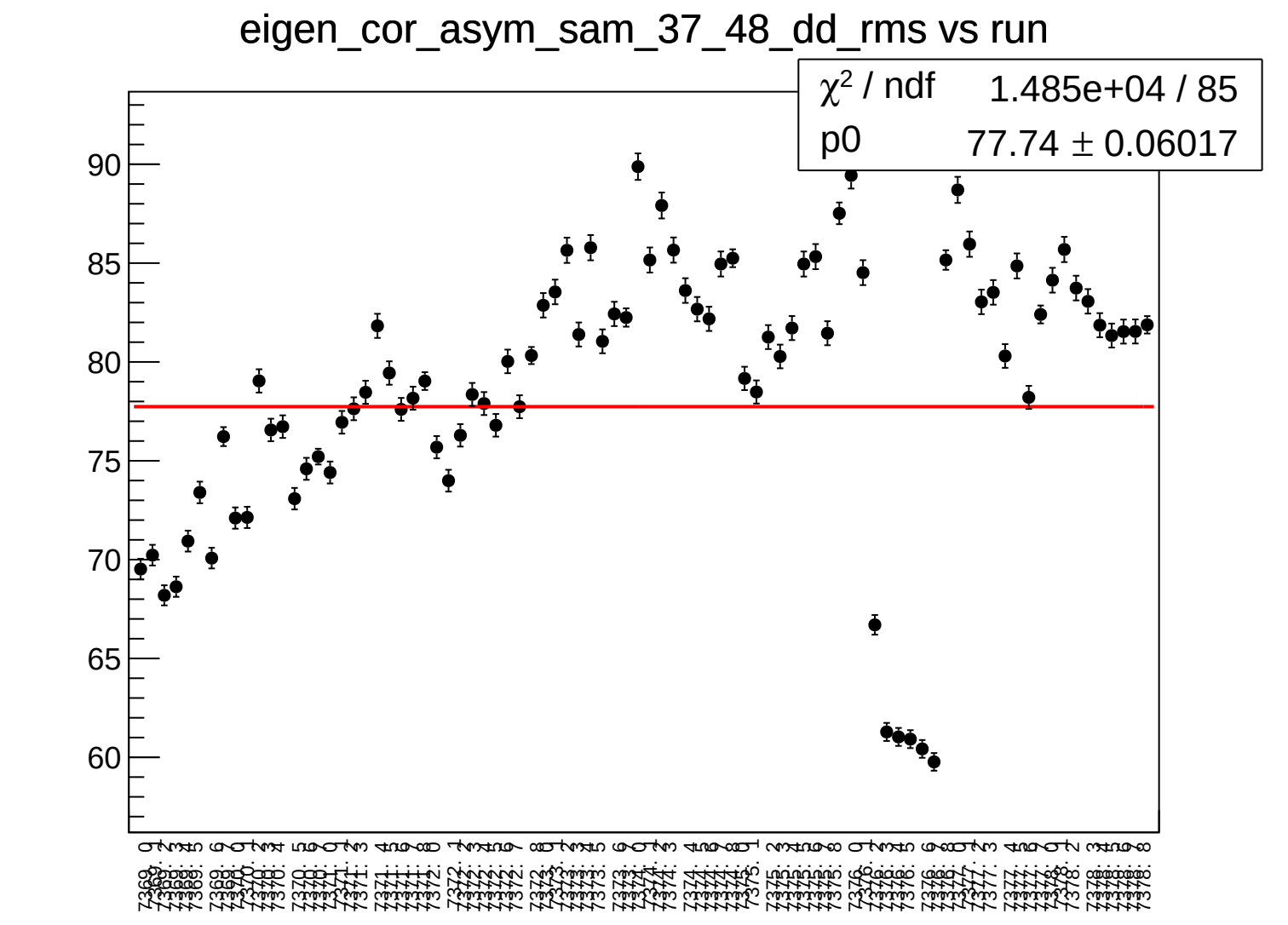

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.485e+04 / 85
p0 77.74 ± 0.06017
90
85
80
75
70
65
60

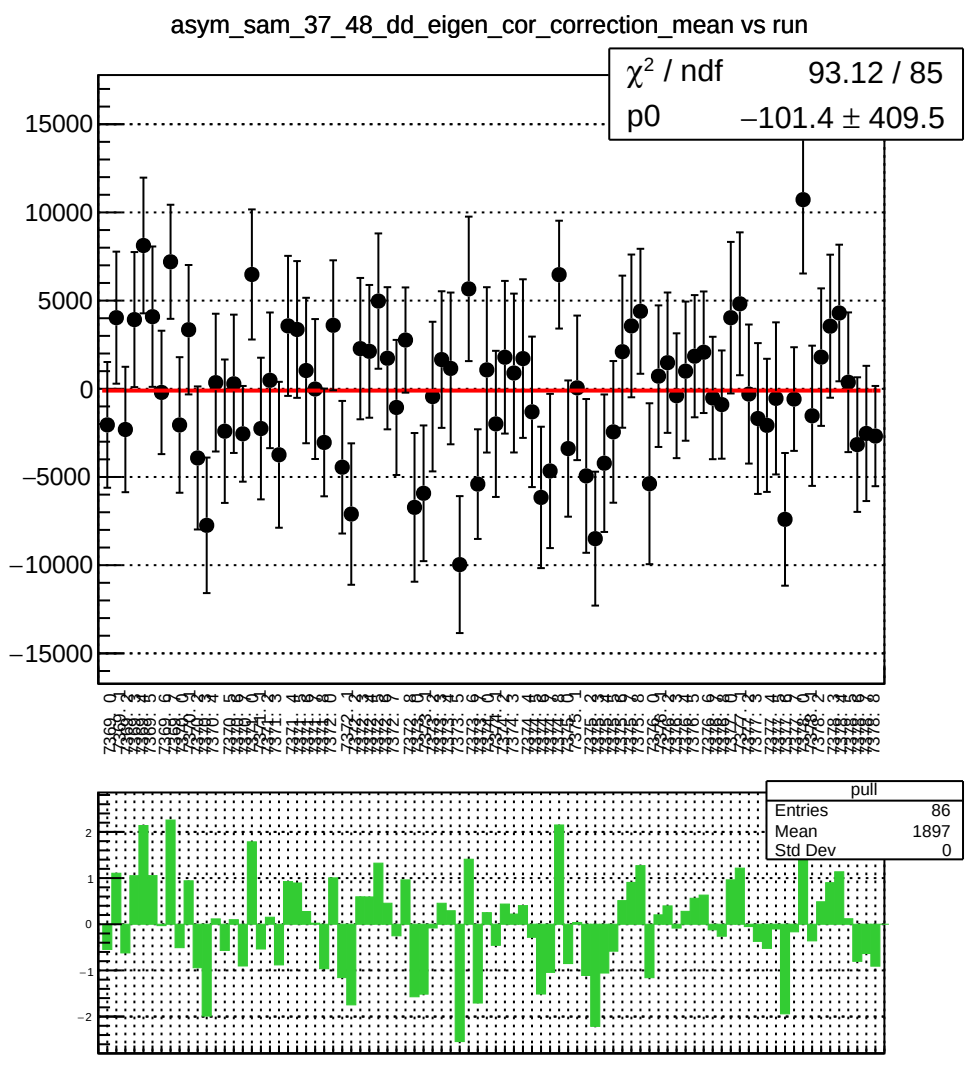

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 93.12 / 85
p0 −101.4 ± 409.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 1897
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.000794
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

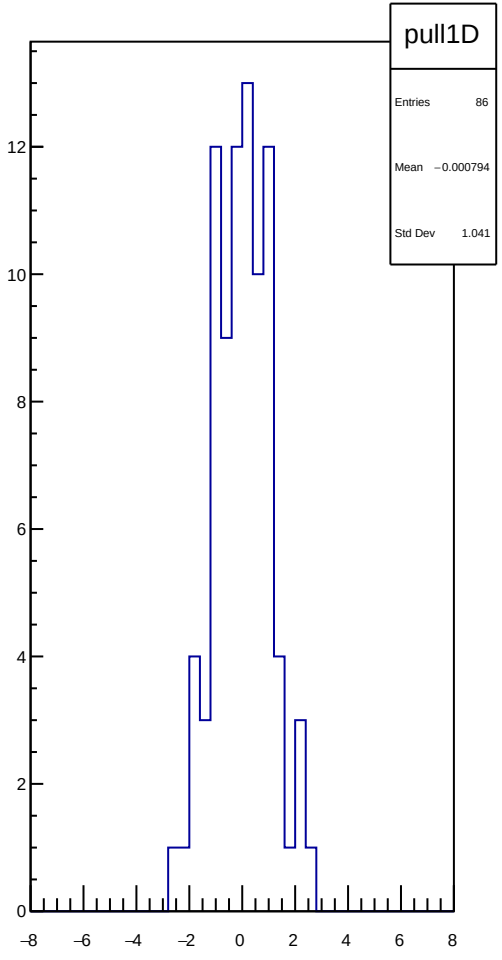

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 6252 / 85
p0 375.1 ± 0.2896
460
440
420
400
380
360
340
320

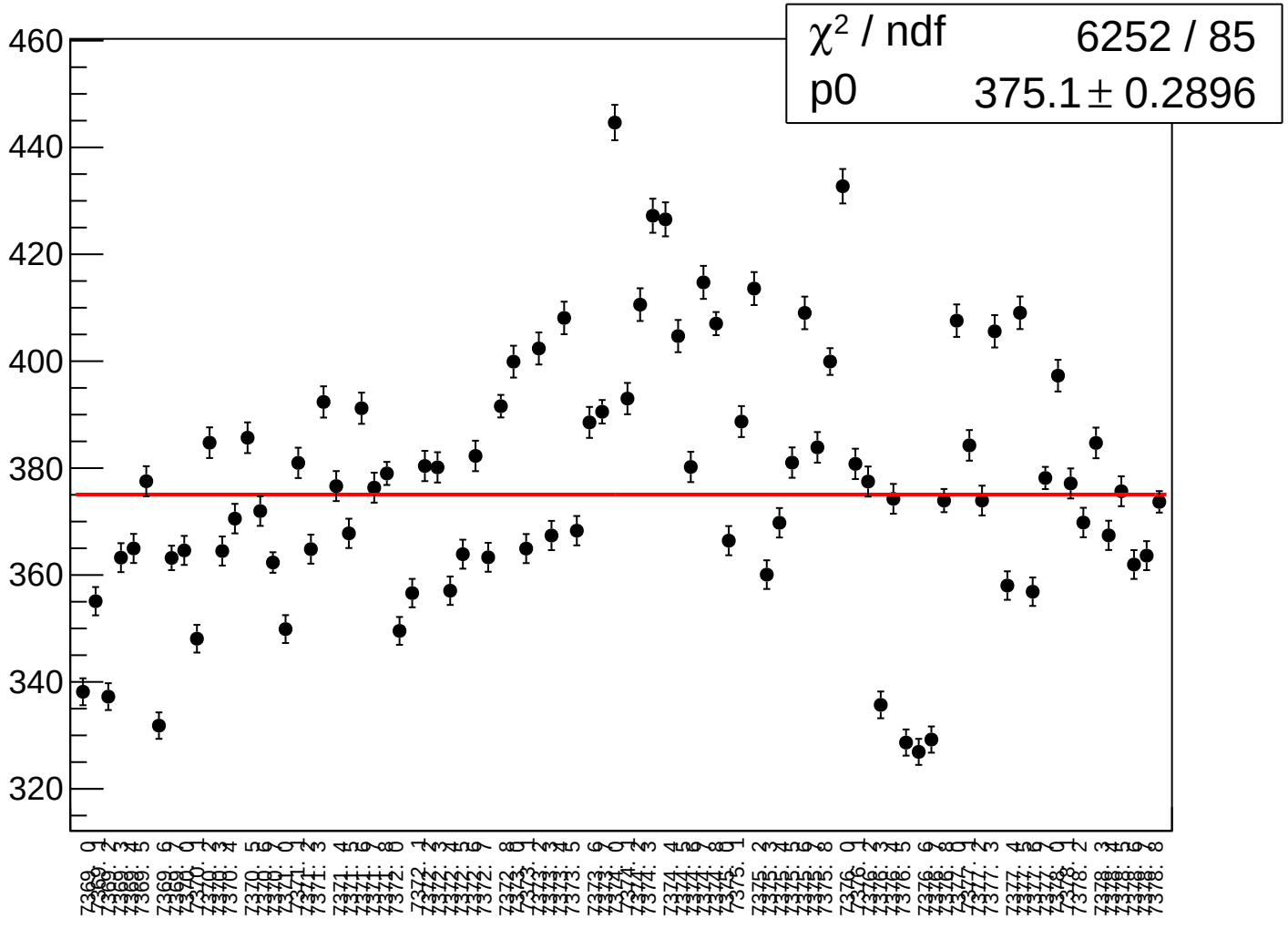

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 87.37 / 85
p0 −178.2 ± 85.09
pull
Entries 86
Mean 153.5
Std Dev 0

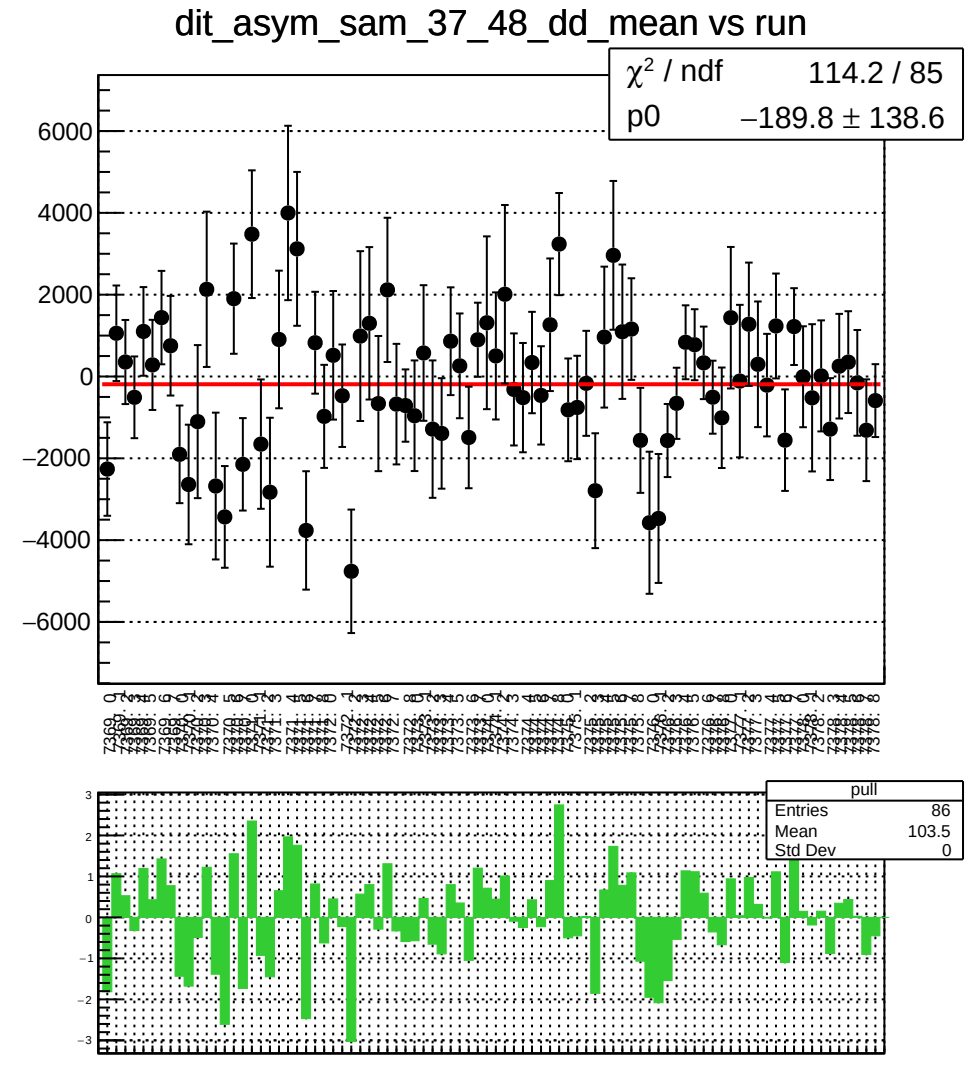

pull1D
Entries 86
Mean 0.007984
Std Dev 1.008

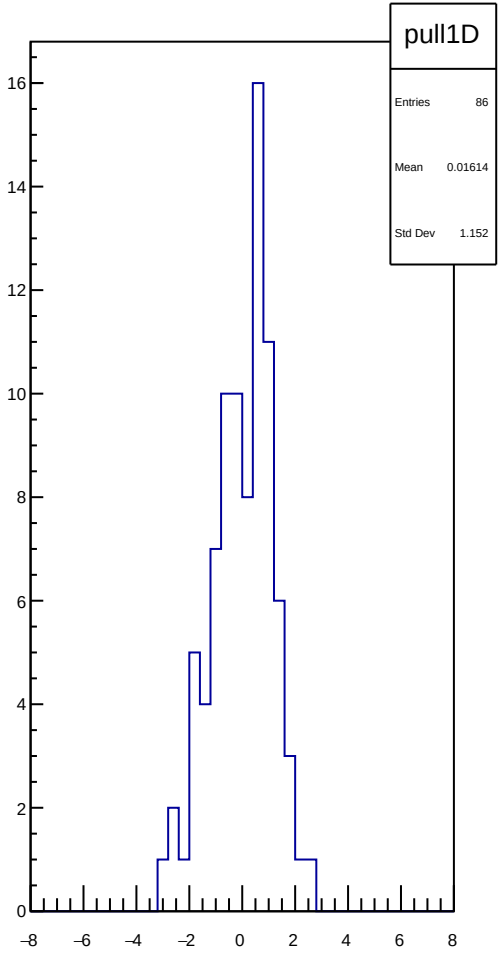

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.485e+04 / 85
p0 77.74 ± 0.06017
90
85
80
75
70
65
60

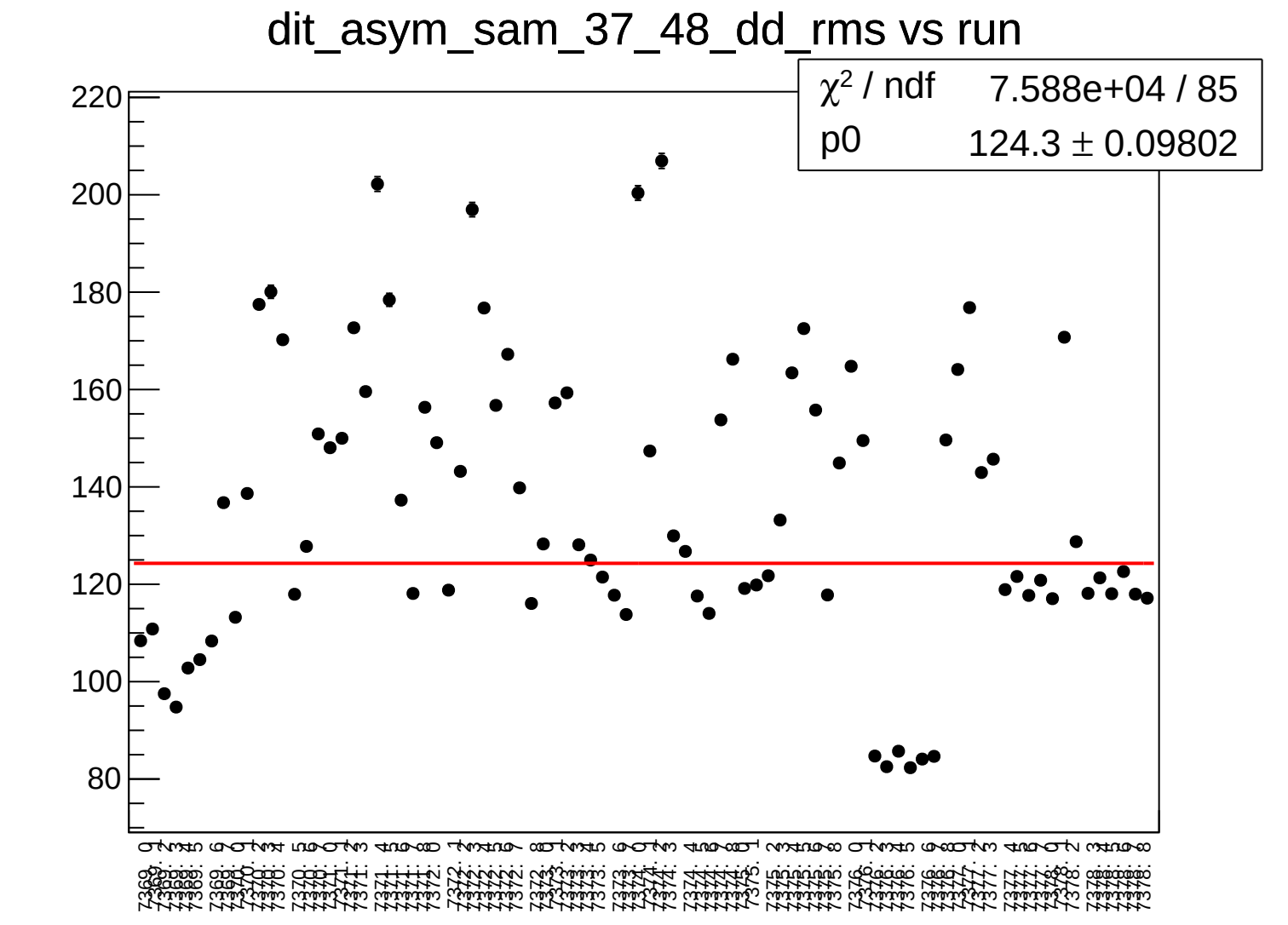

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.12 / 85
p0 −101.4 ± 409.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 1897
Std Dev 0
2
1
0
−1
−2

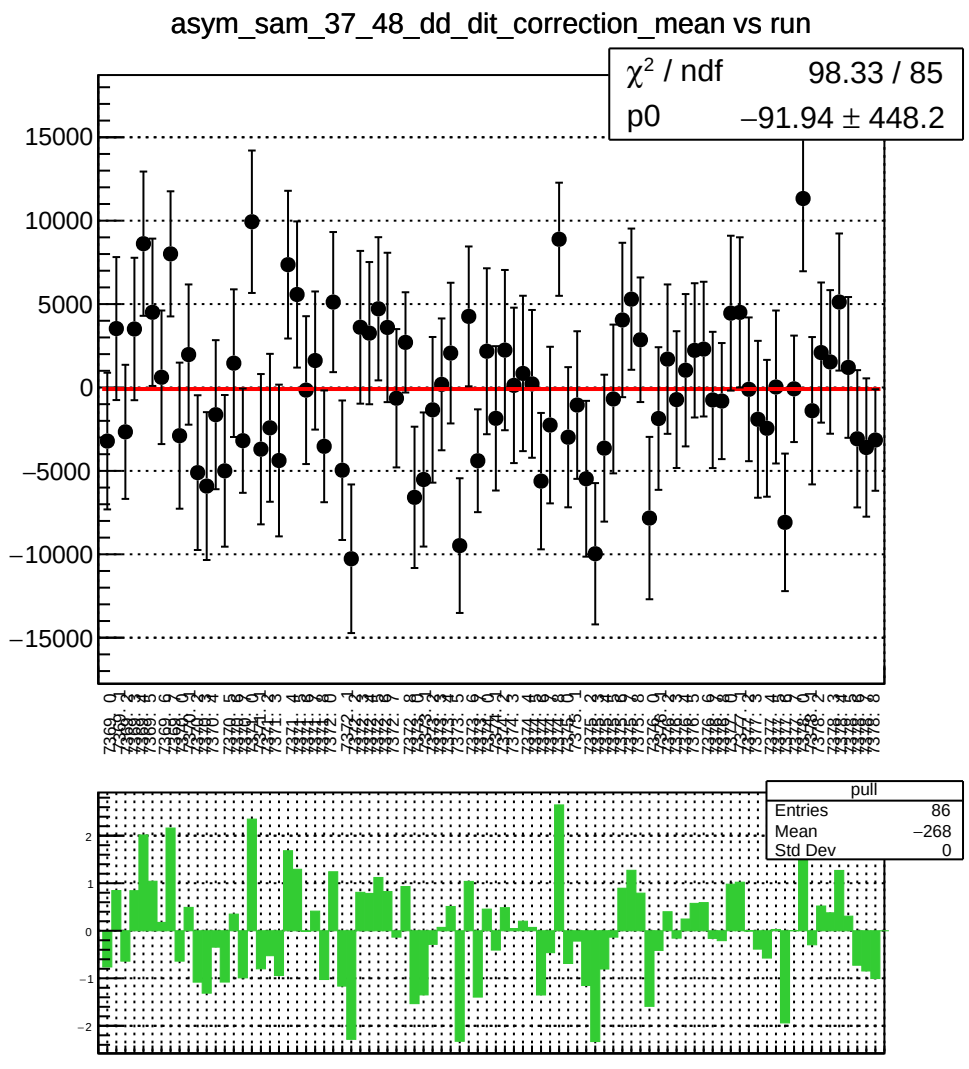

pull1D
Entries 86
Mean −0.000794
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

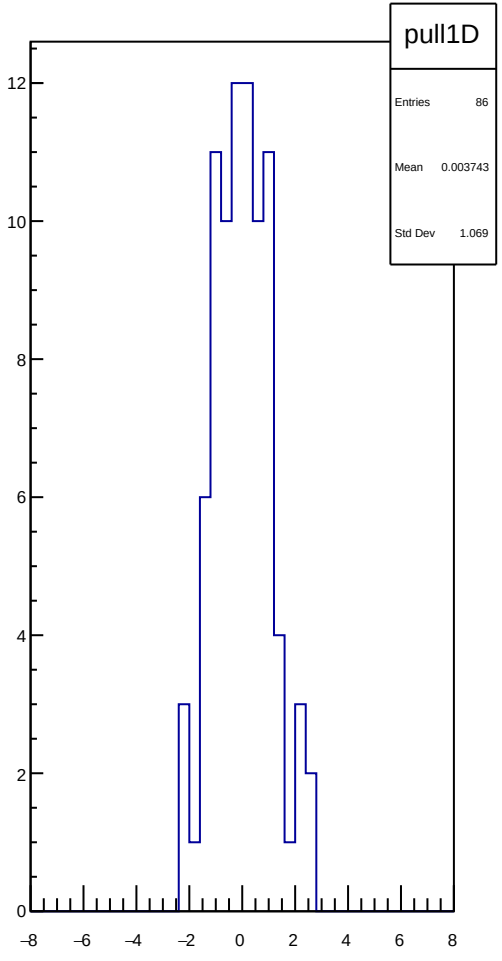

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6252 / 85
p0 375.1 ± 0.2896
460
440
420
400
380
360
340
320

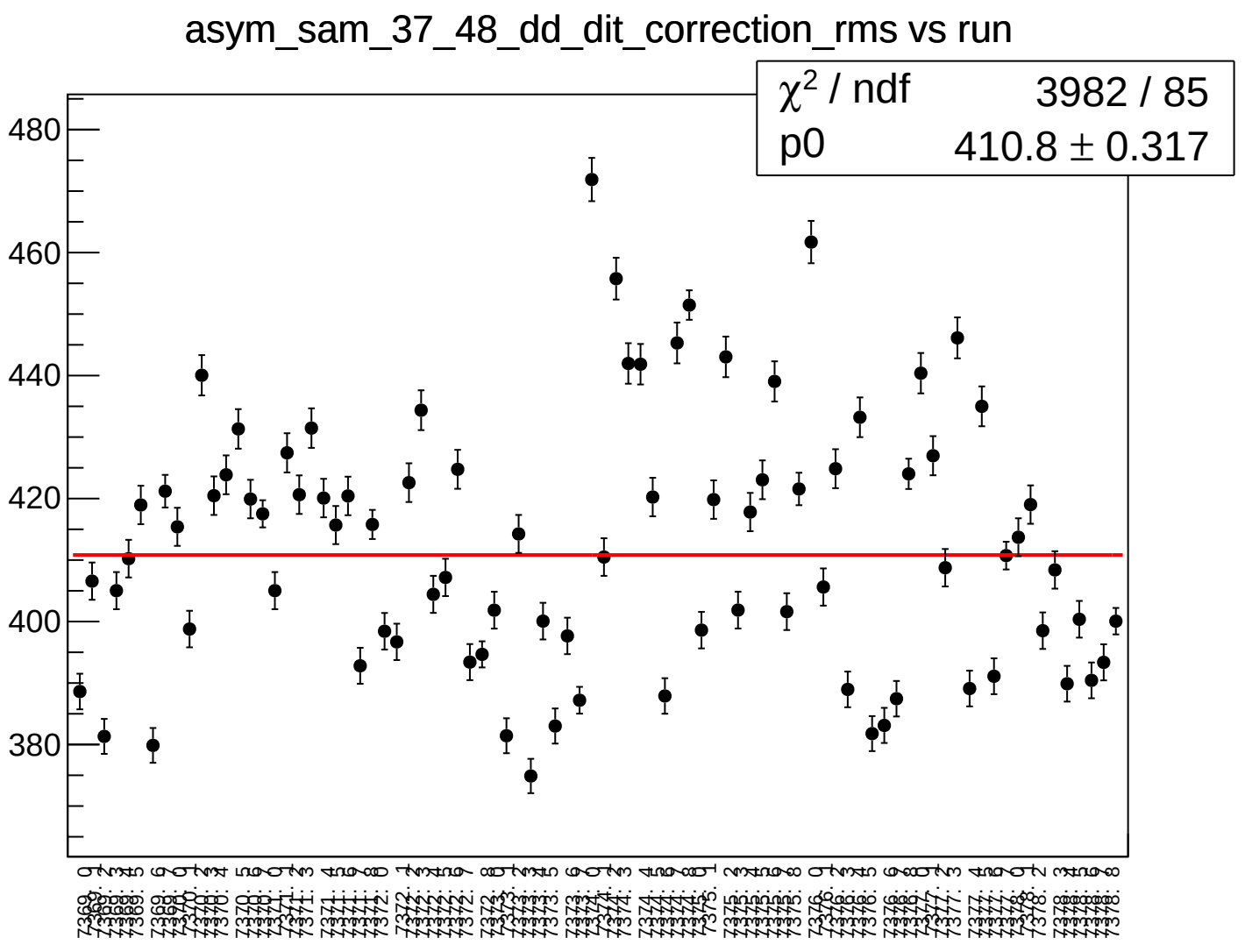

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 114.2 / 85
p0 −189.8 ± 138.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 103.5
Std Dev 0
3
2
1
0
−1
−2
−3

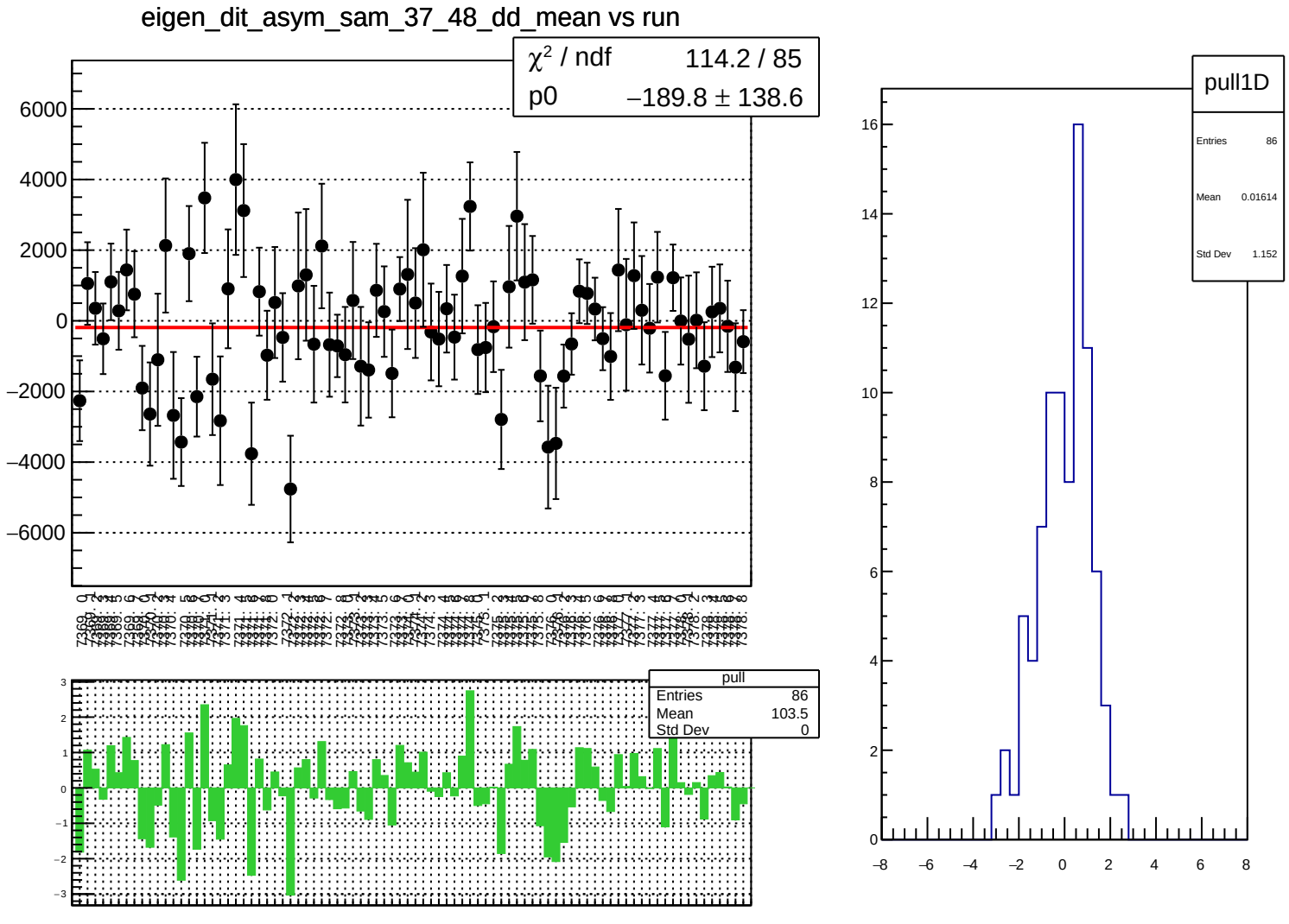

pull1D
Entries 86
Mean 0.01614
Std Dev 1.152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

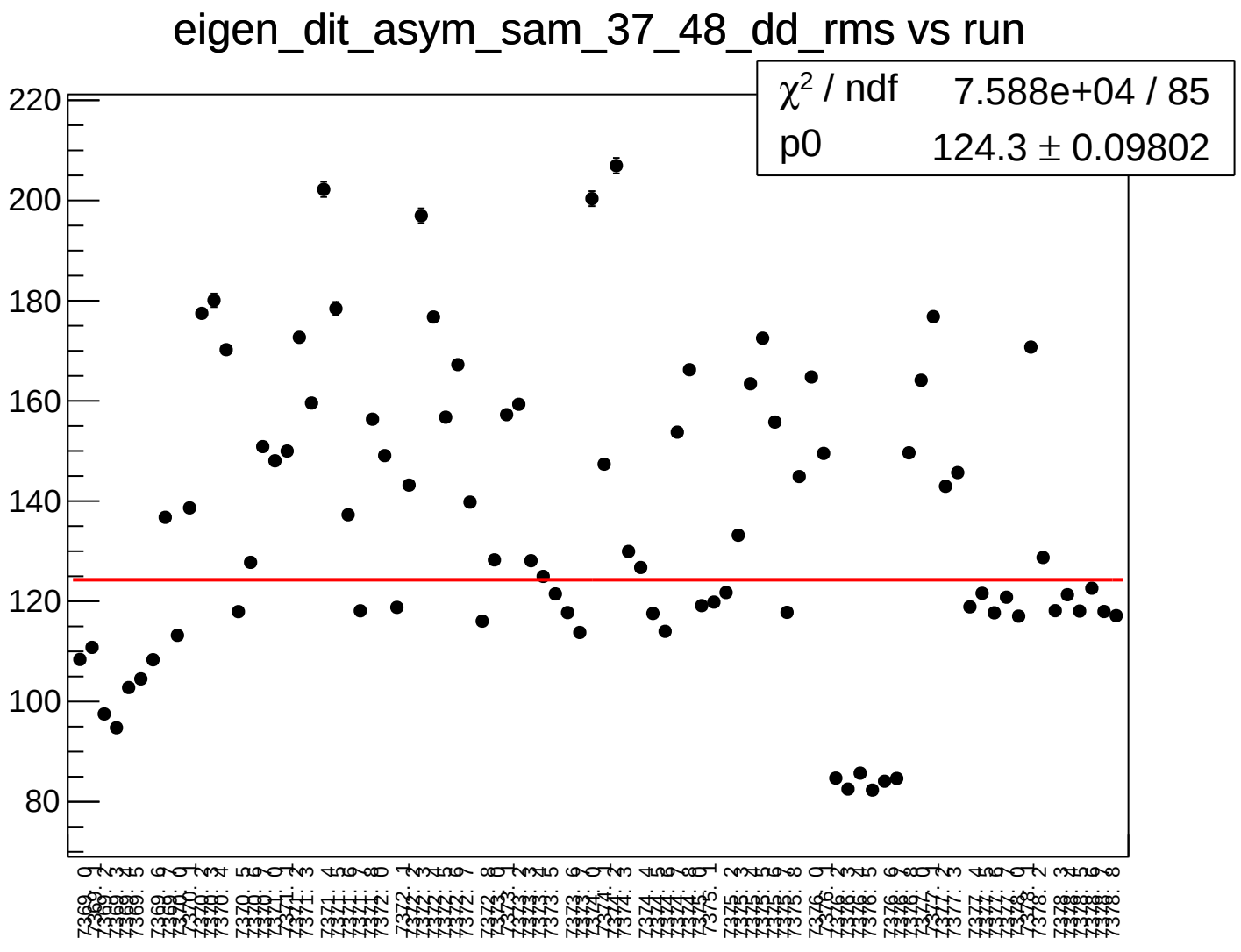

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 7.588e+04 / 85
p0 124.3 ± 0.09802
220
200
180
160
140
120
100
80

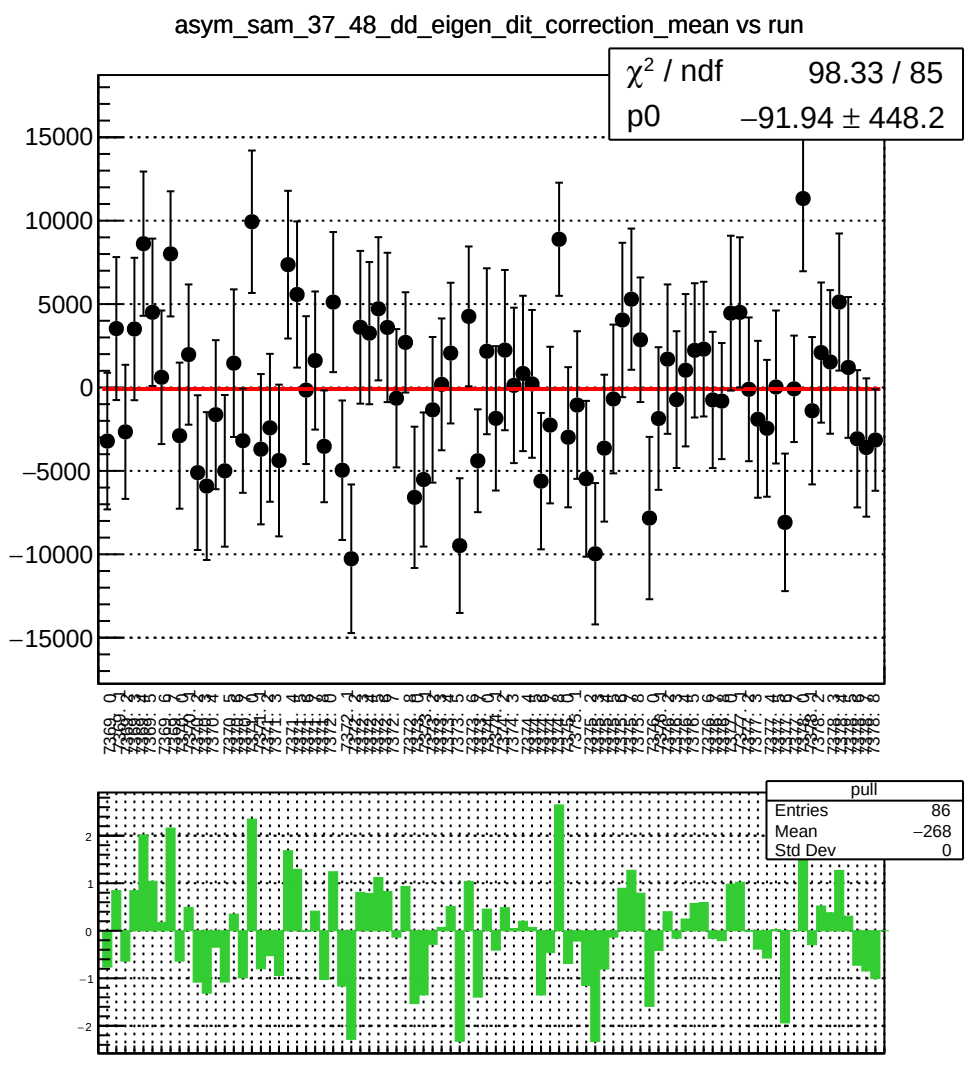

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 98.33 / 85
p0 −91.94 ± 448.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −268
Std Dev 0
2
1
0
−1
−2

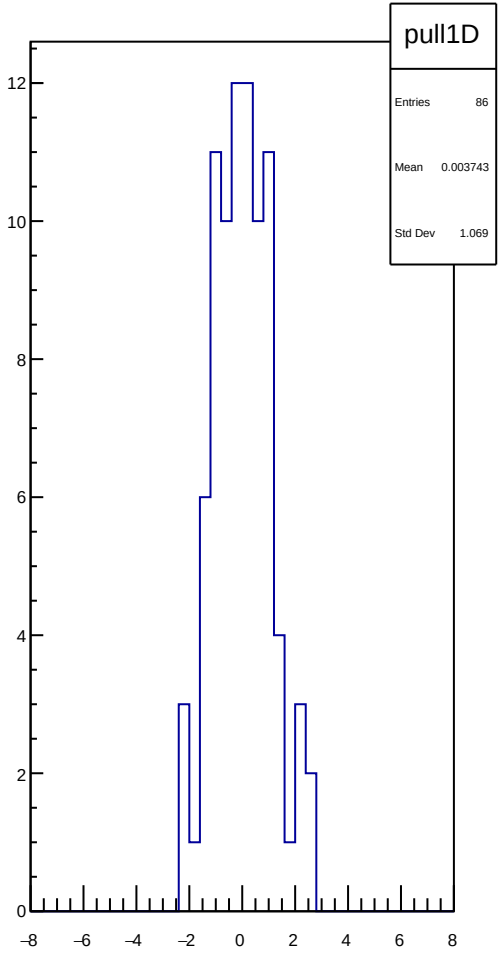

pull1D
Entries 86
Mean 0.003743
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

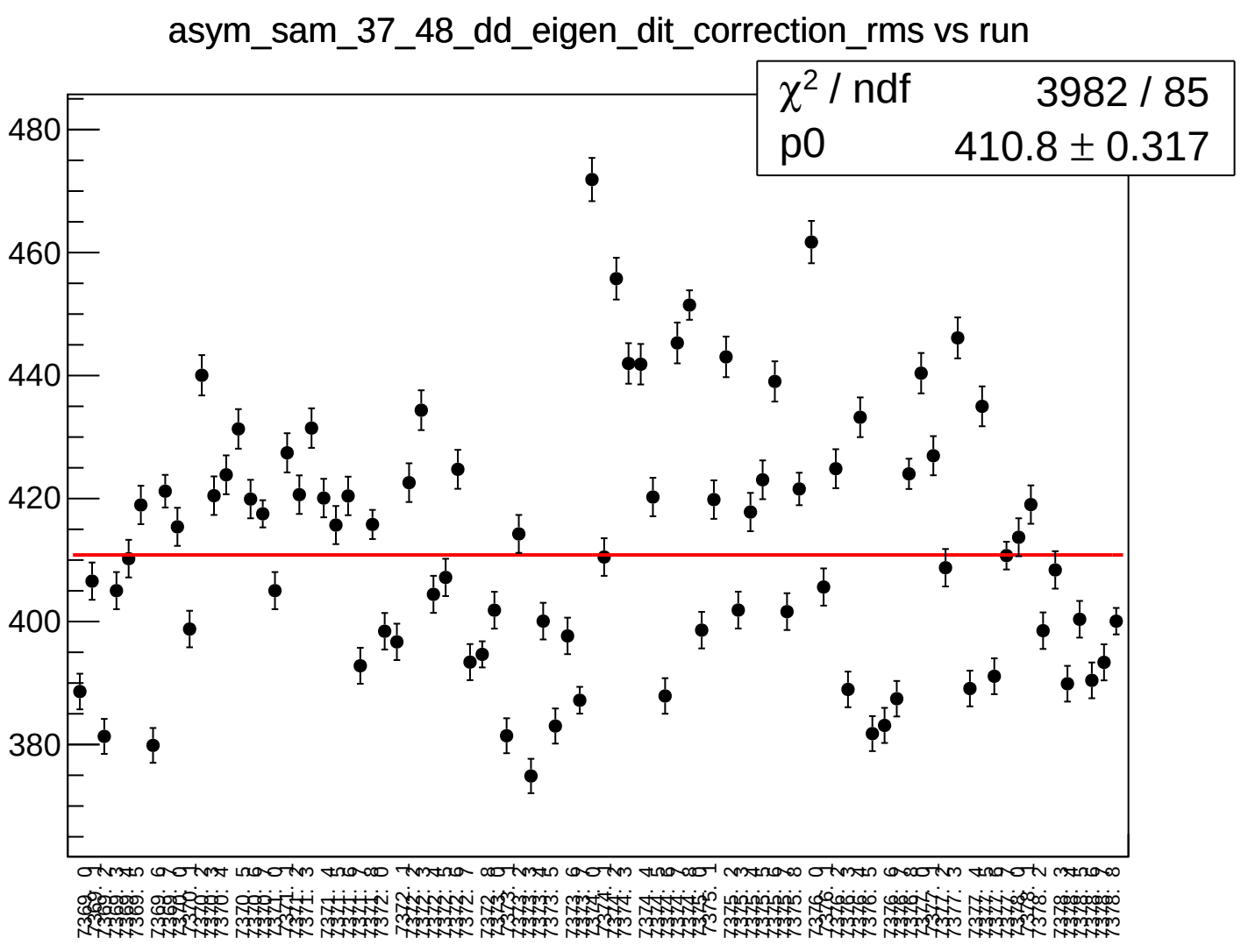

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 3982 / 85
p0 410.8 ± 0.317
480
460
440
420
400
380

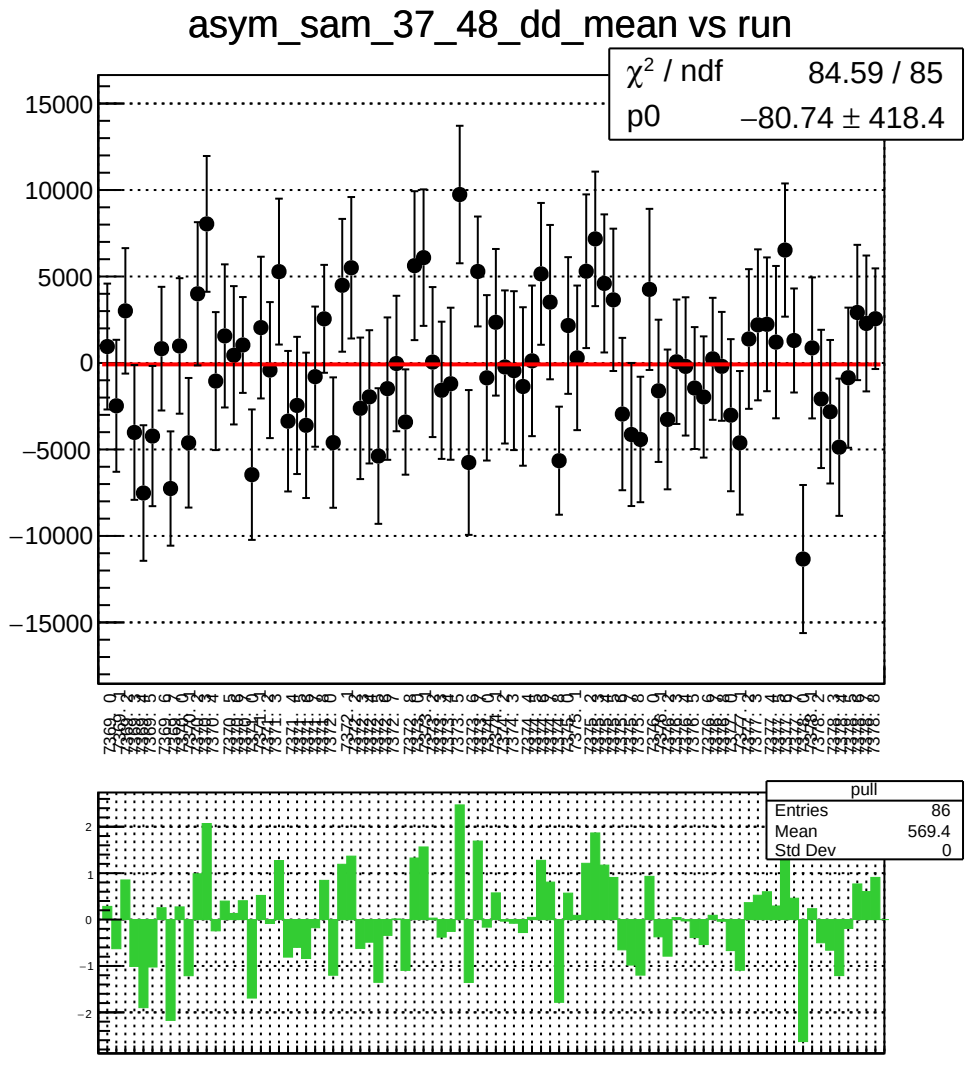

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 114.2 / 85
p0 −189.8 ± 138.6
pull
Entries 86
Mean 103.5
Std Dev 0
pull1D
Entries 86
Mean 0.01614
Std Dev 1.152

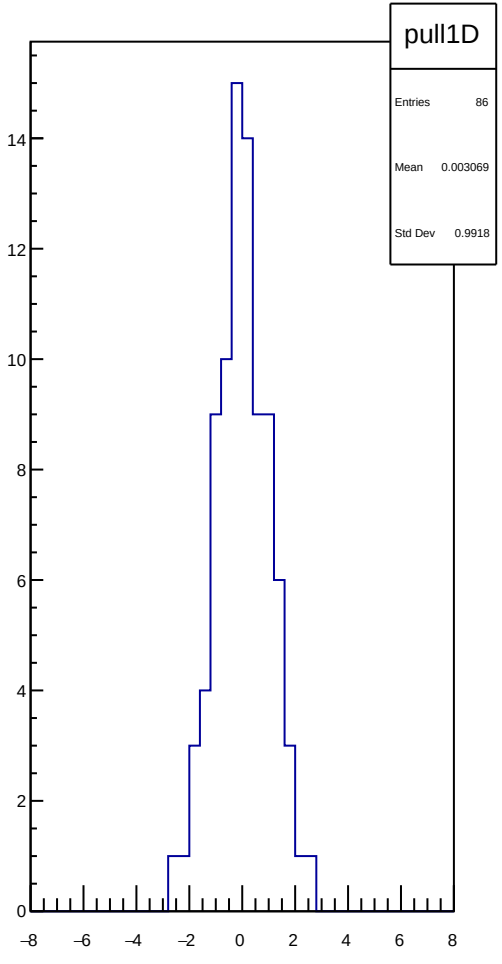

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 7.588e+04 / 85
p0 124.3 ± 0.09802
220
200
180
160
140
120
100
80

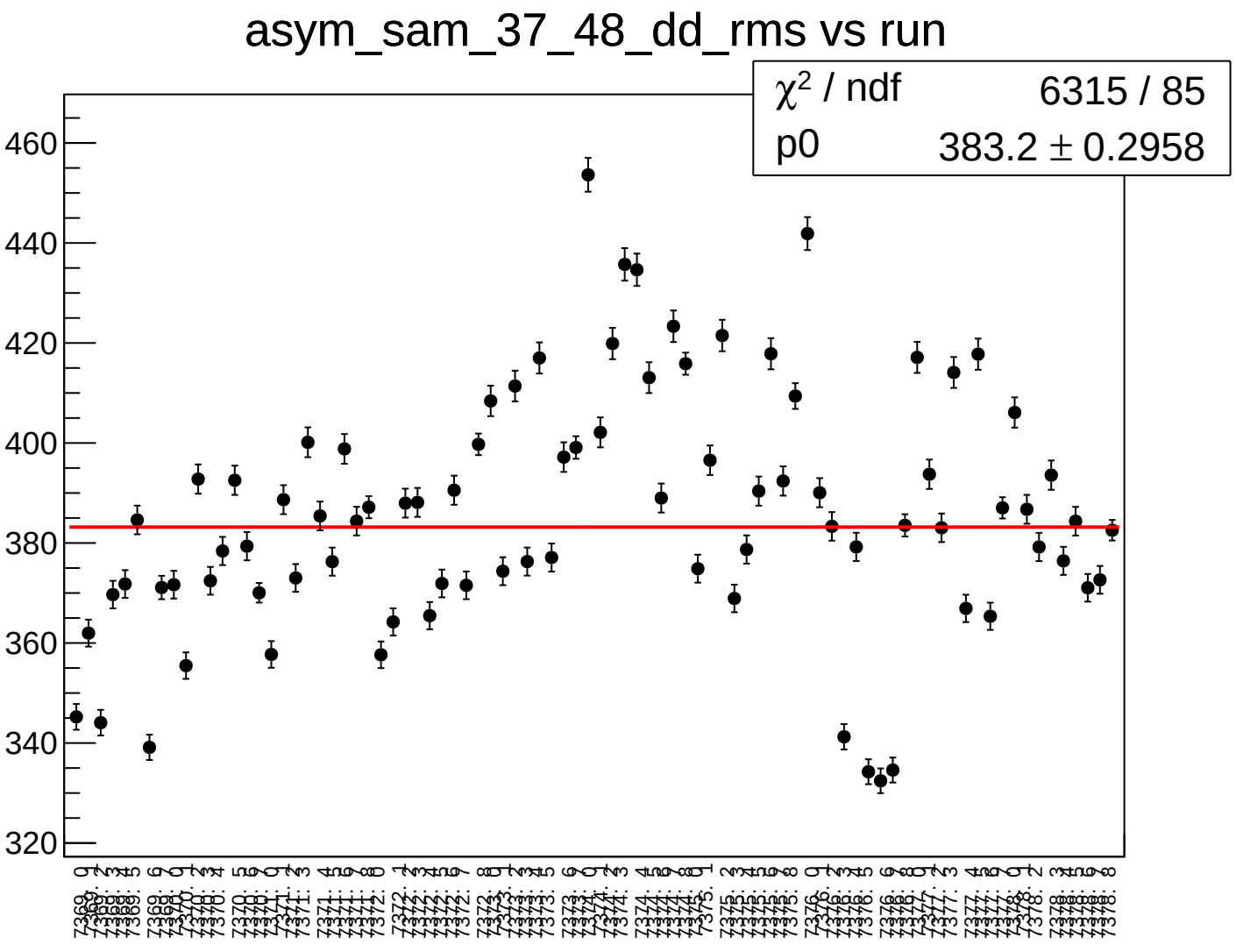

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.33 / 85
p0 −91.94 ± 448.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −268
Std Dev 0
2
1
0
−1
−2

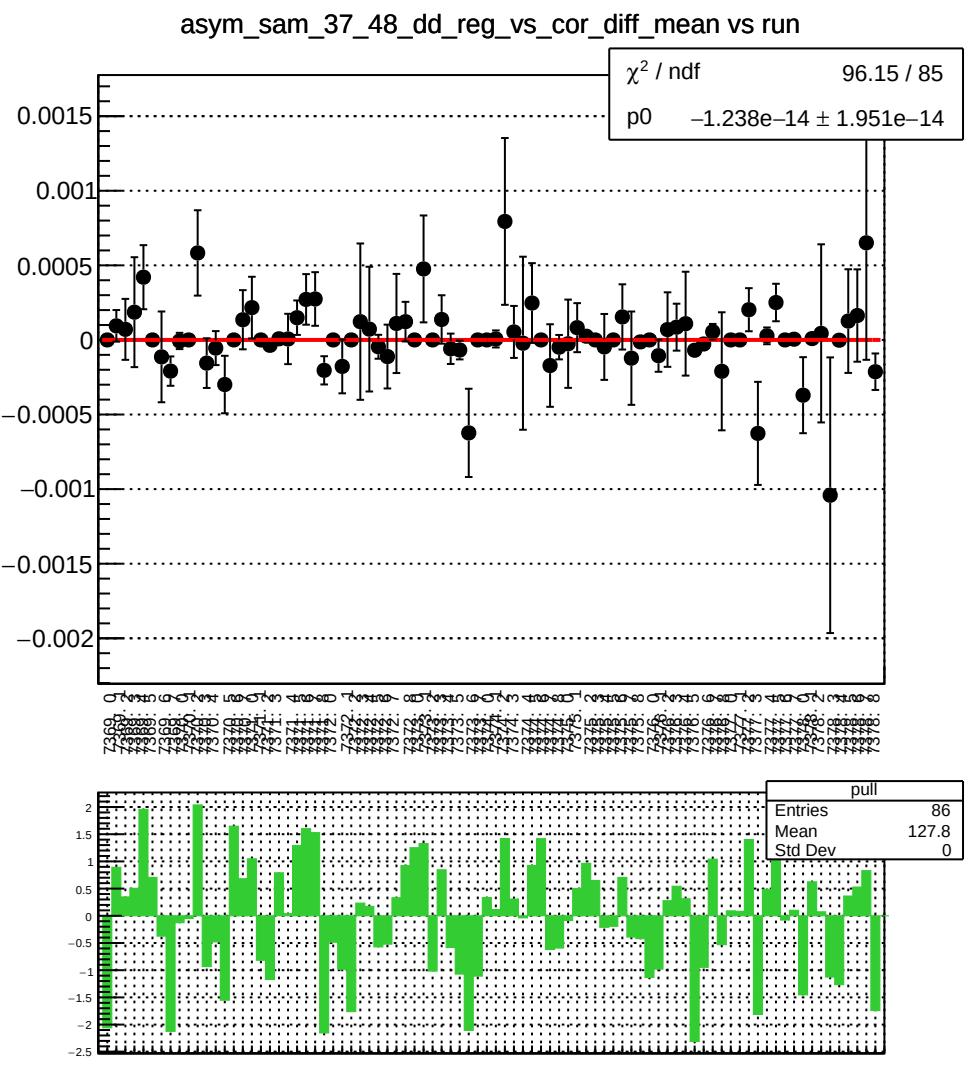

pull1D
Entries 86
Mean 0.003743
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

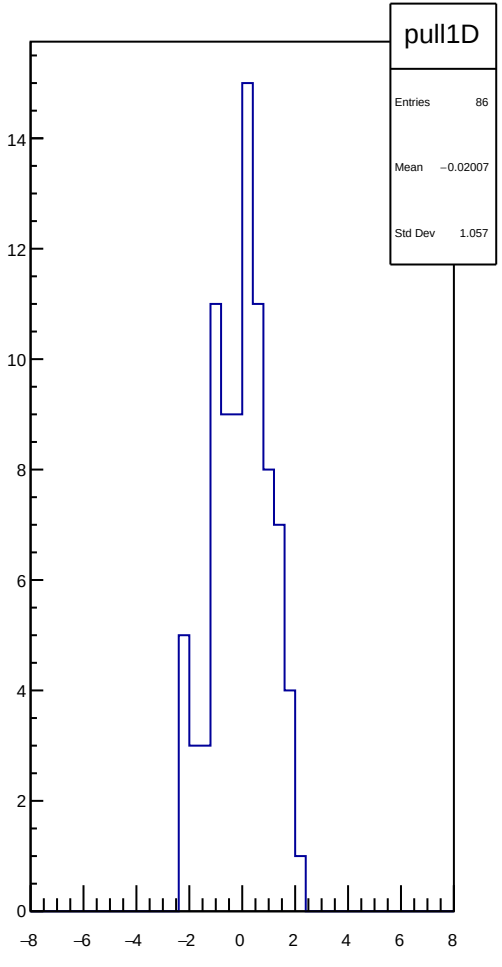

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3982 / 85
p0 410.8 ± 0.317
480
460
440
420
400
380

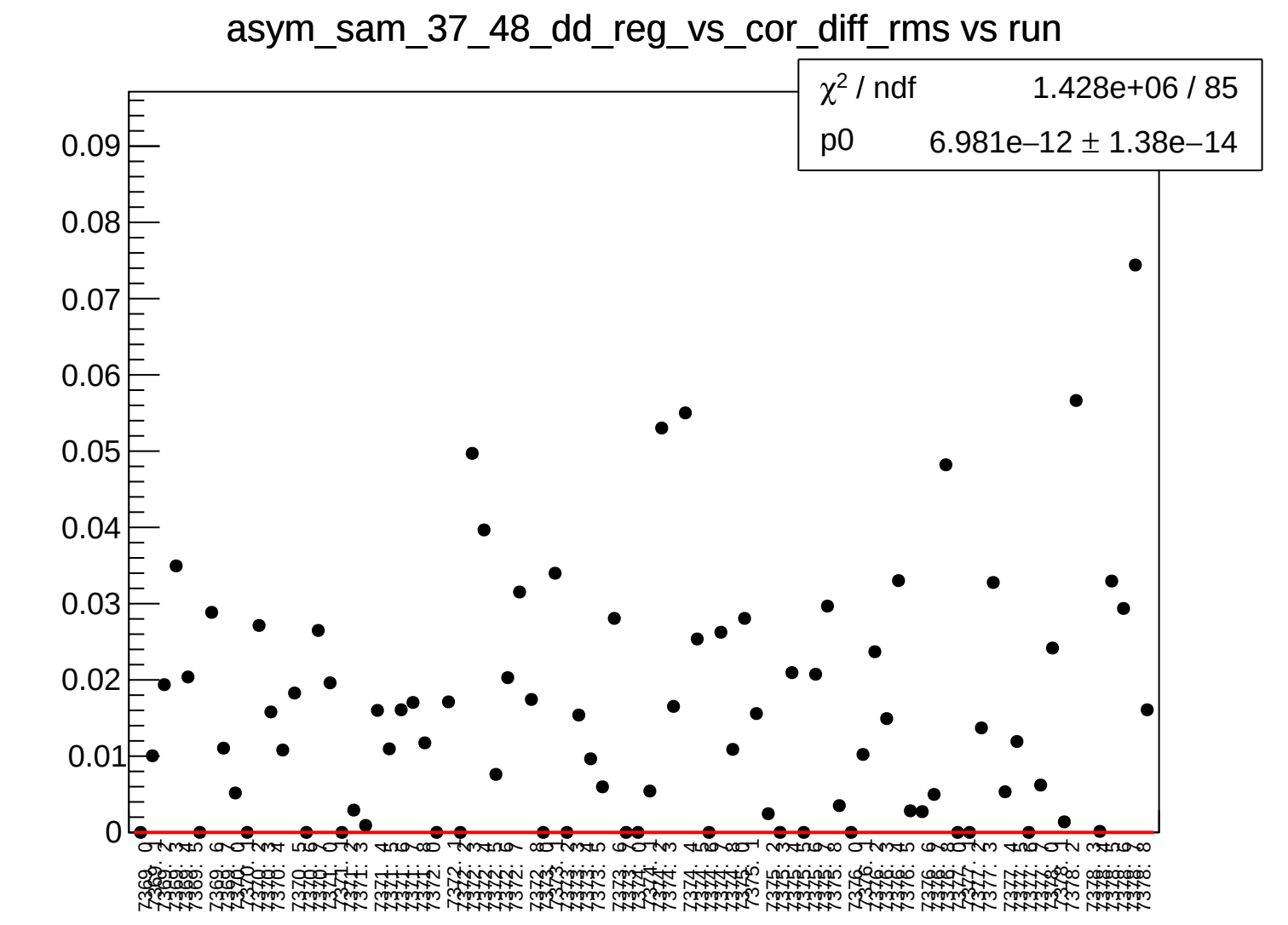

asym_sam_37_48_dd_mean vs run
χ² / ndf 84.59 / 85
p0 −80.74 ± 418.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 569.4
Std Dev 0
2
1
0
−1
−2

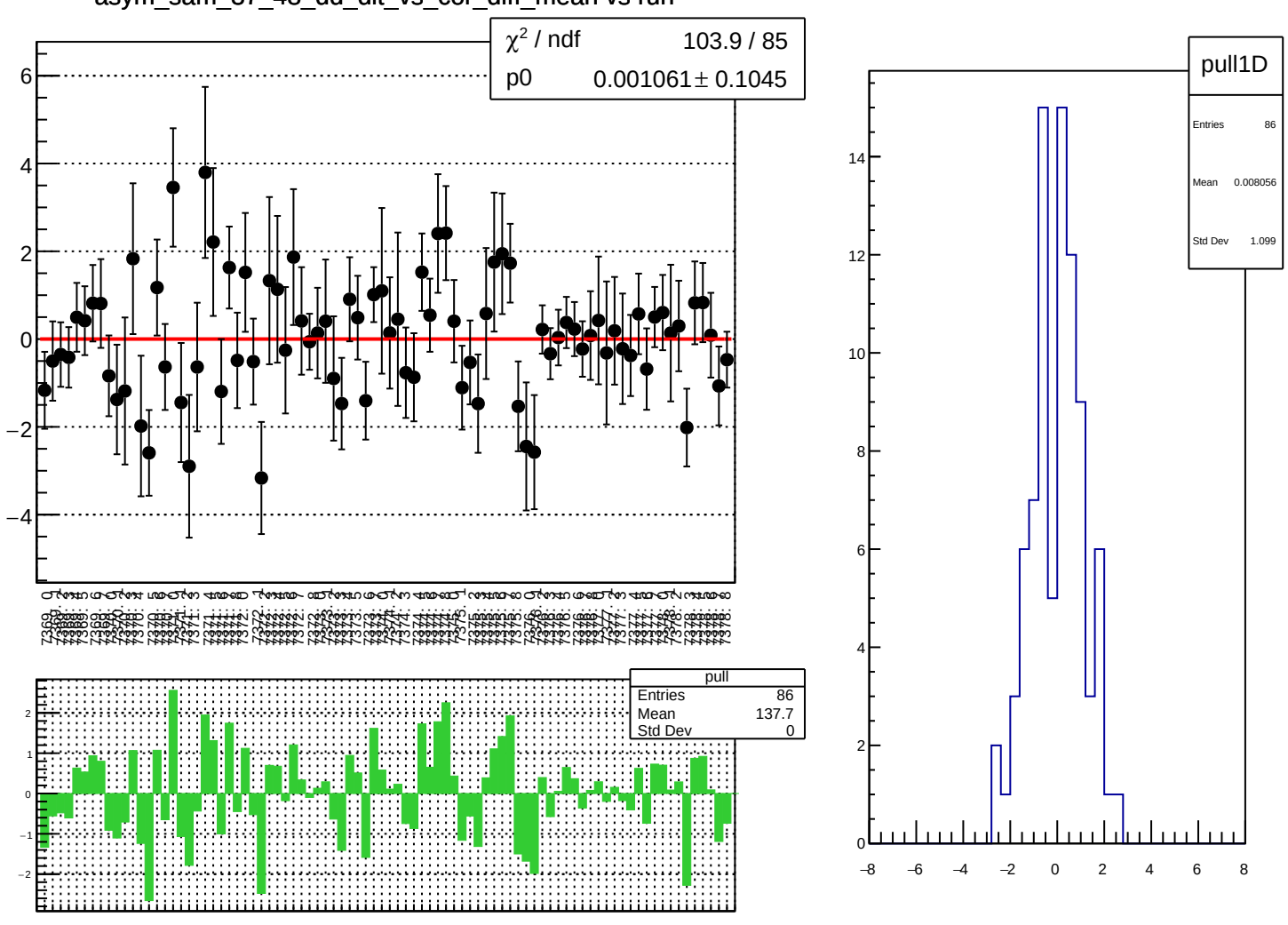

pull1D
Entries 86
Mean 0.003069
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

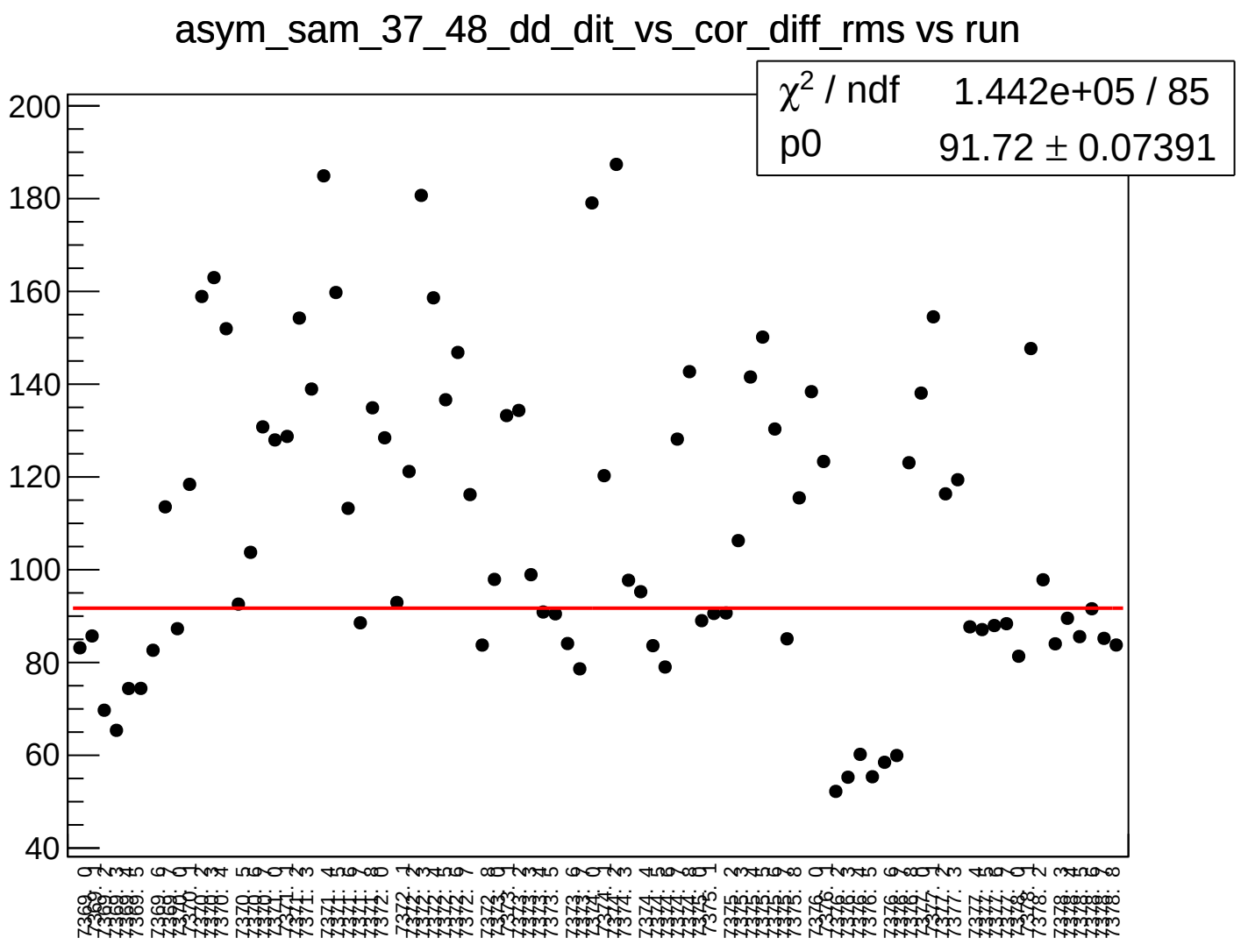

asym_sam_37_48_dd_rms vs run
χ² / ndf 6315 / 85
p0 383.2 ± 0.2958
460
440
420
400
380
360
340
320

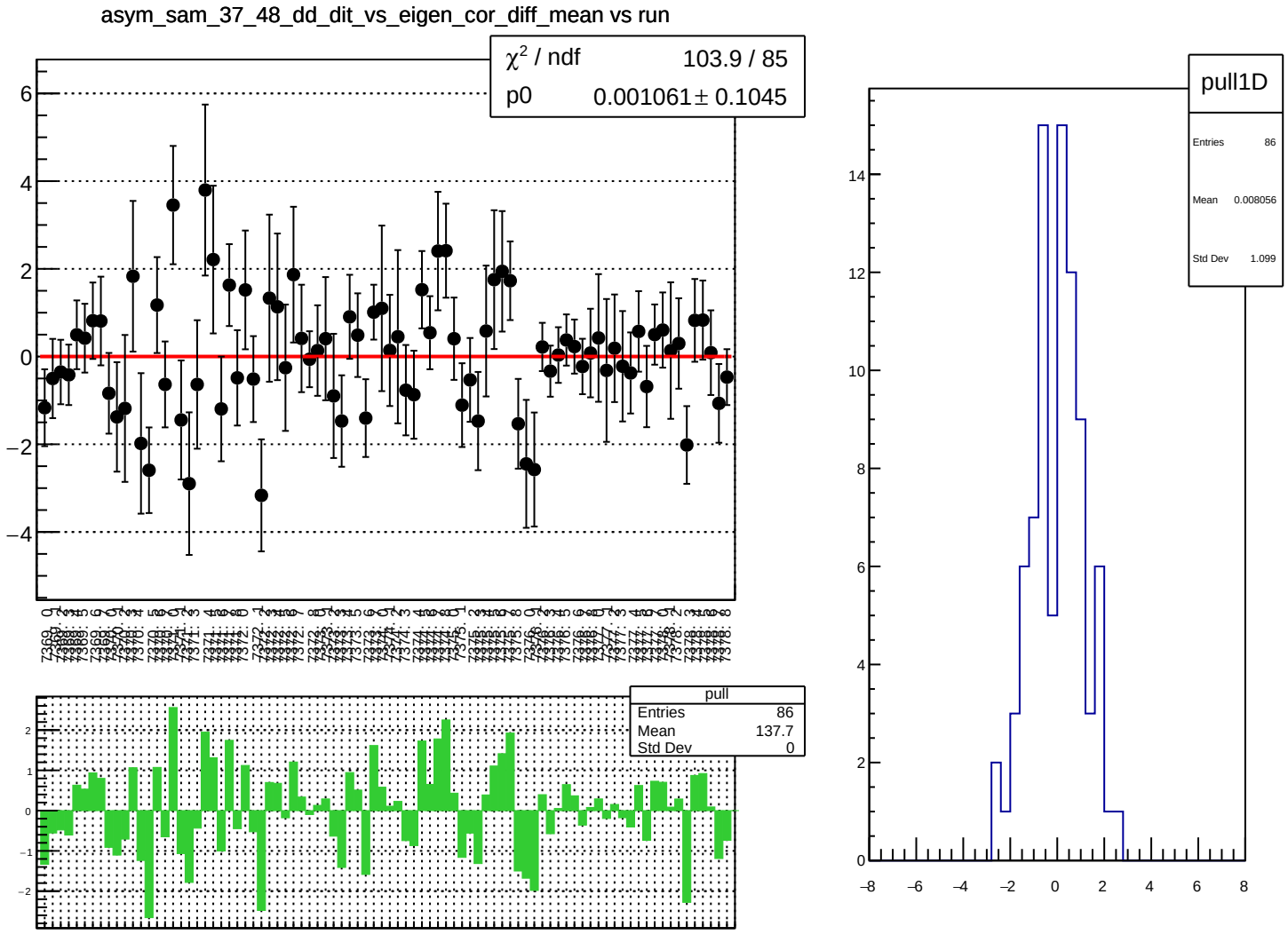

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.15 / 85
p0 −1.238e−14 ± 1.951e−14
pull
Entries 86
Mean 127.8
Std Dev 0

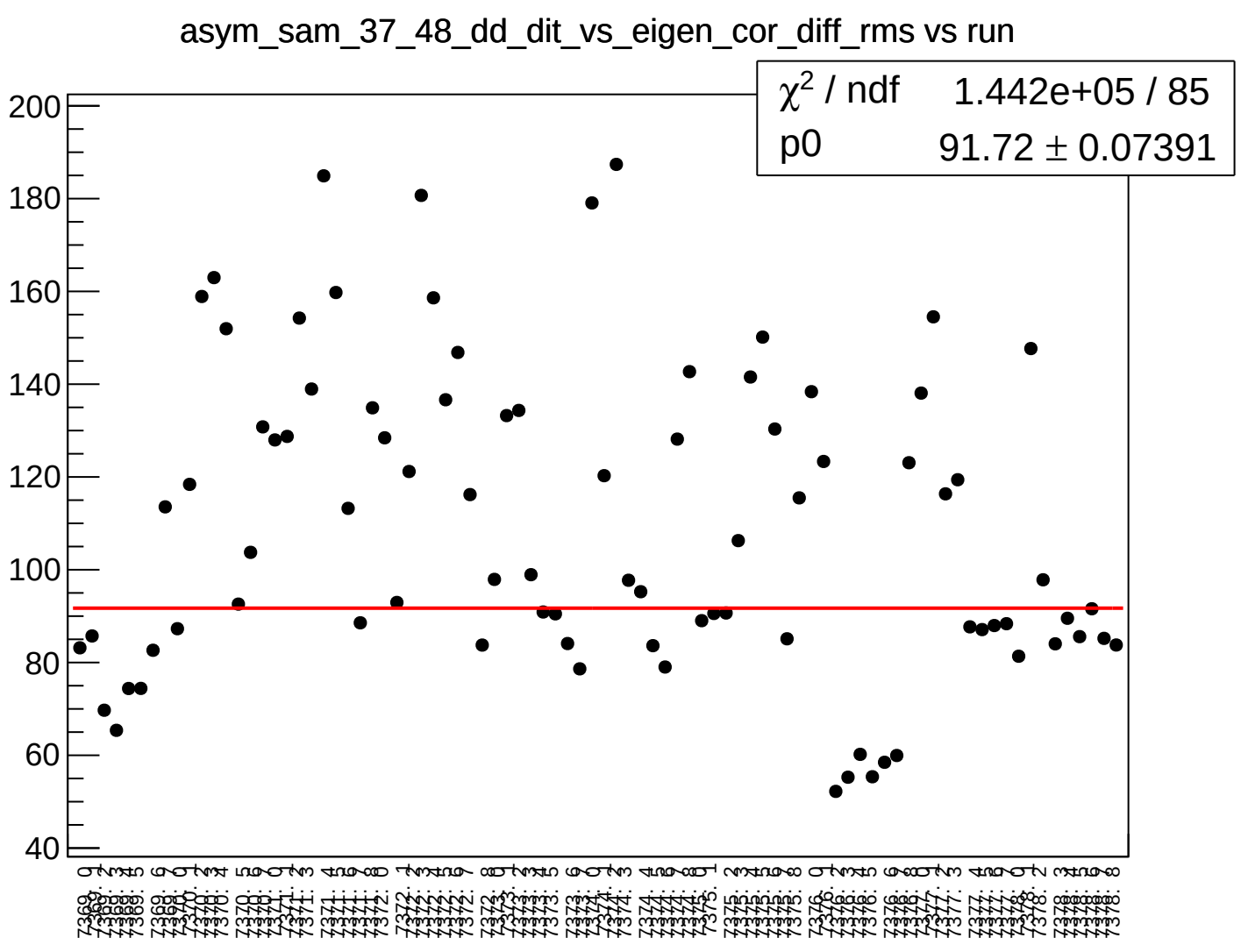

pull1D
Entries 86
Mean −0.02007
Std Dev 1.057

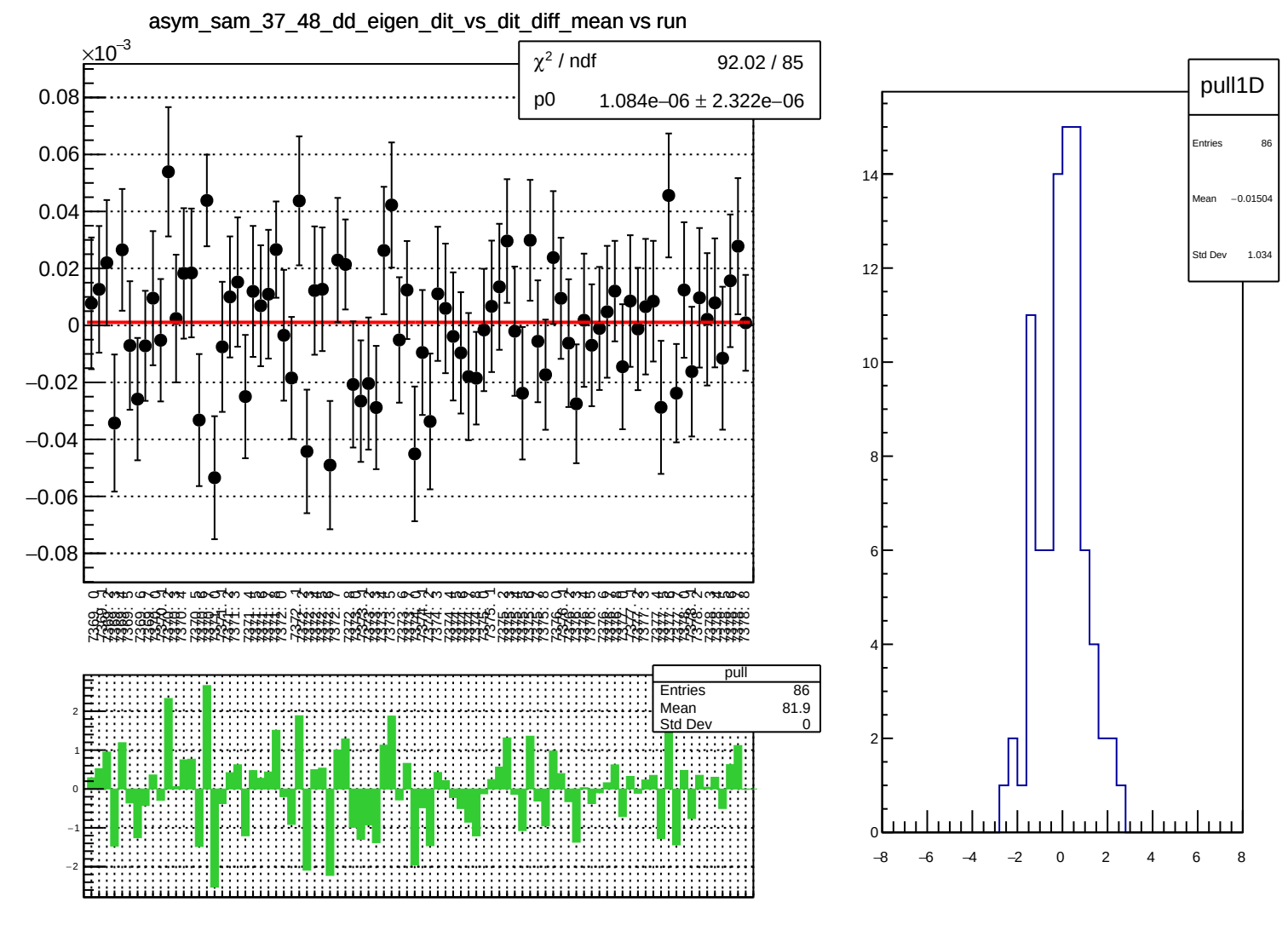

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.428e+06 / 85
p0 6.981e−12 ± 1.38e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

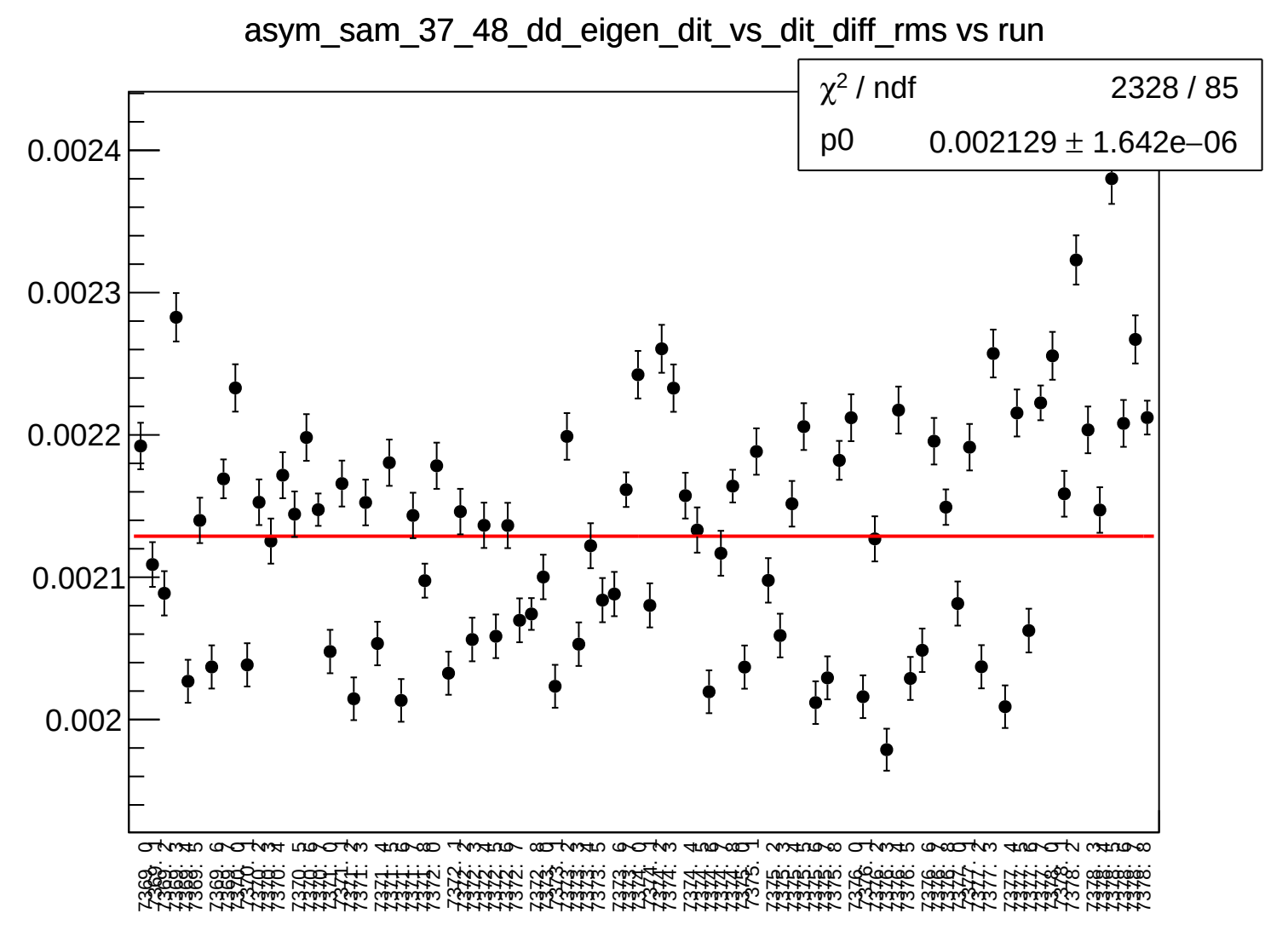

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 85
p0 0.001061 ± 0.1045
pull
Entries 86
Mean 137.7
Std Dev 0
pull1D
Entries 86
Mean 0.008056
Std Dev 1.099


asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.442e+05 / 85
p0 91.72 ± 0.07391
200
180
160
140
120
100
80
60
40

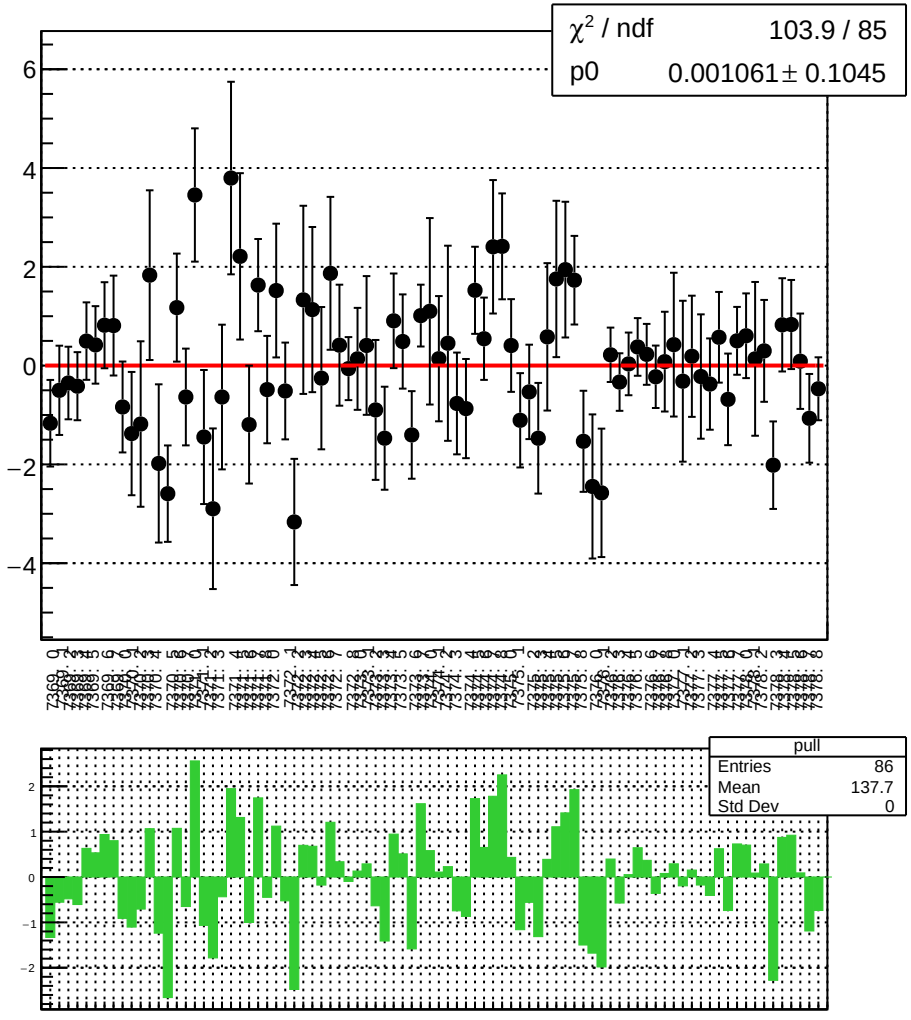

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 85
p0 0.001061 ± 0.1045
pull
Entries 86
Mean 137.7
Std Dev 0
pull1D
Entries 86
Mean 0.008056
Std Dev 1.099

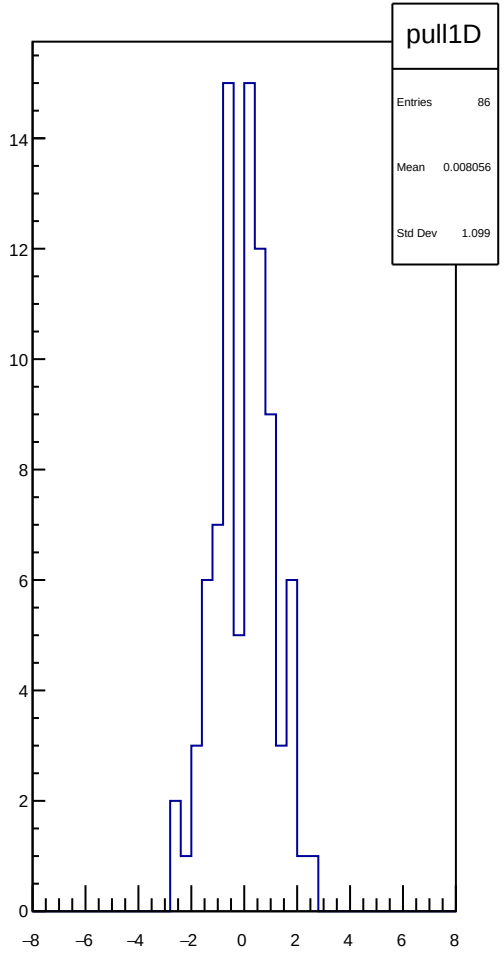

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.442e+05 / 85
p0 91.72 ± 0.07391
200
180
160
140
120
100
80
60
40

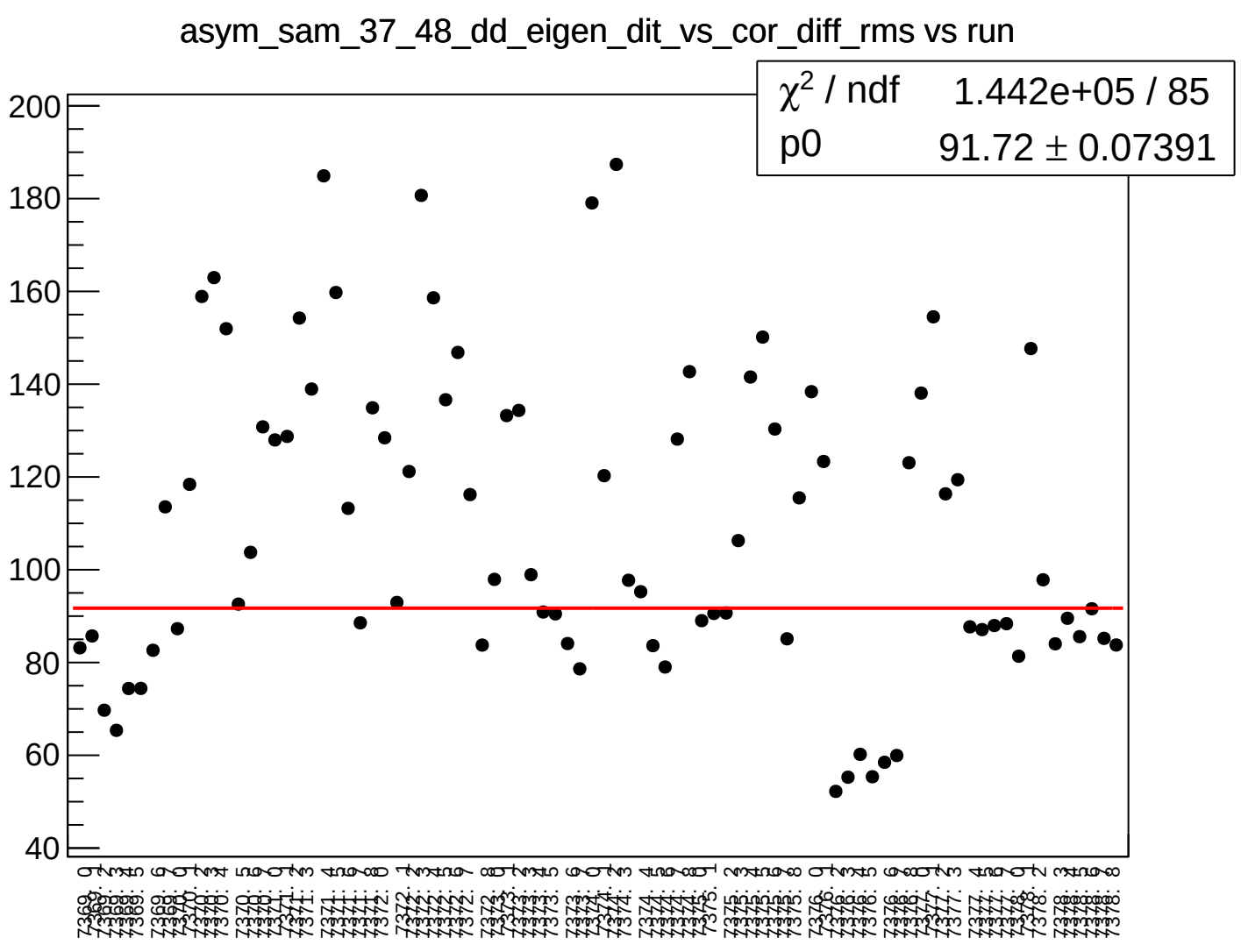

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.02 / 85
p0 1.084e−06 ± 2.322e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean 81.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01504
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2328 / 85
p0 0.002129 ± 1.642e−06
0.0024
0.0023
0.0022
0.0021
0.002

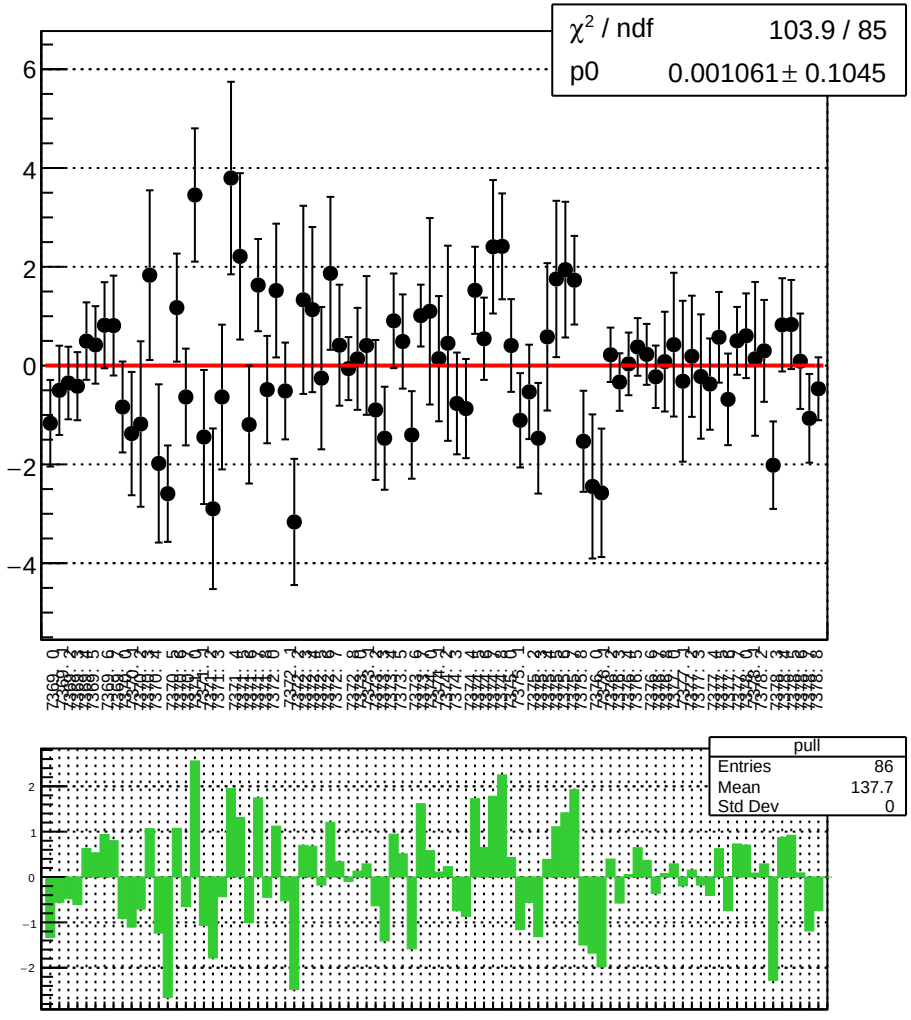
asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run

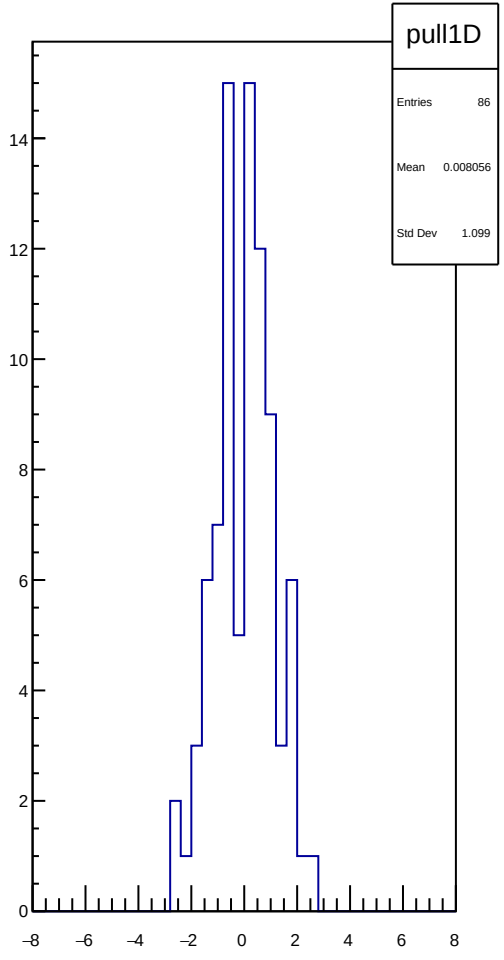


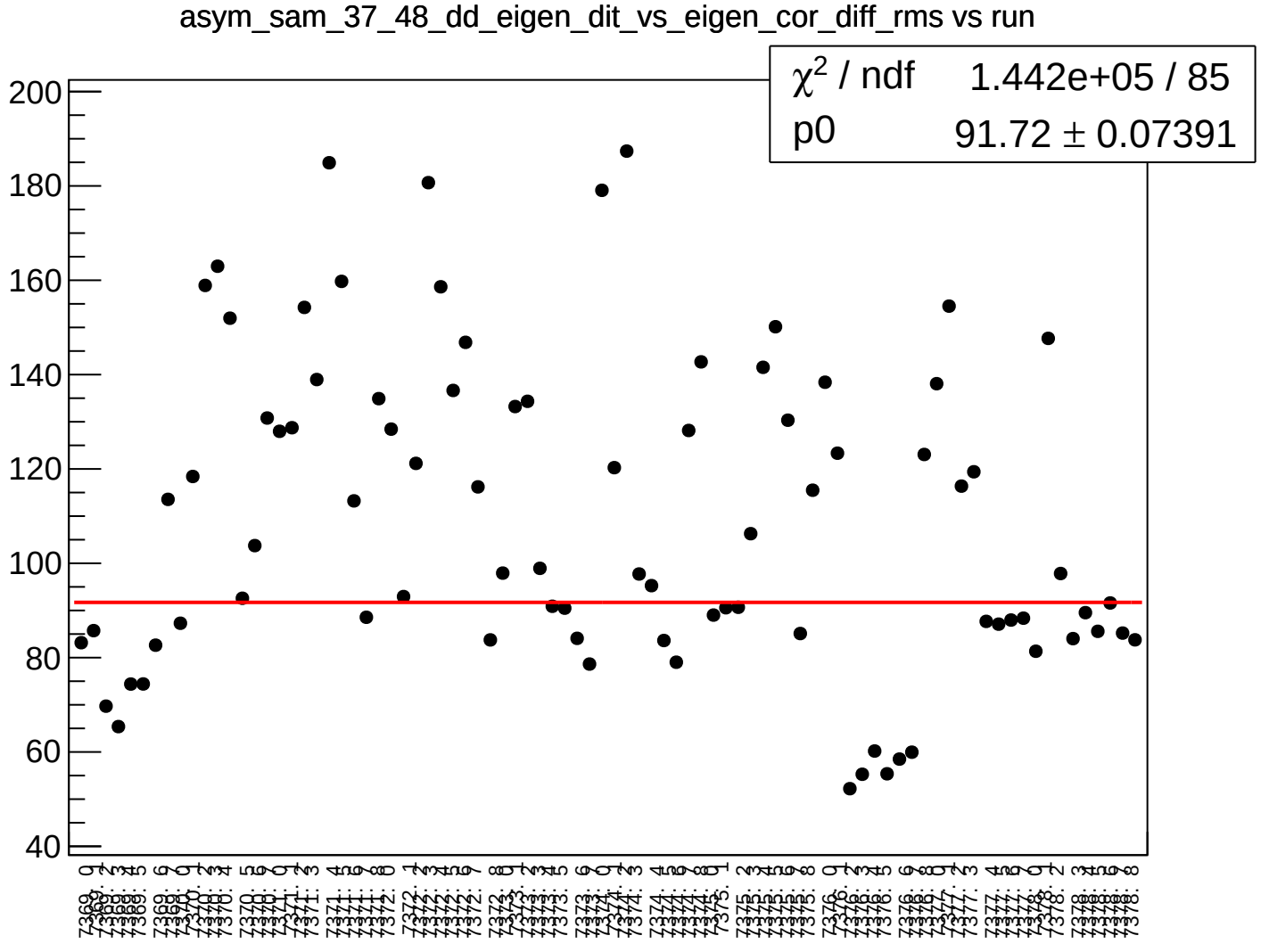


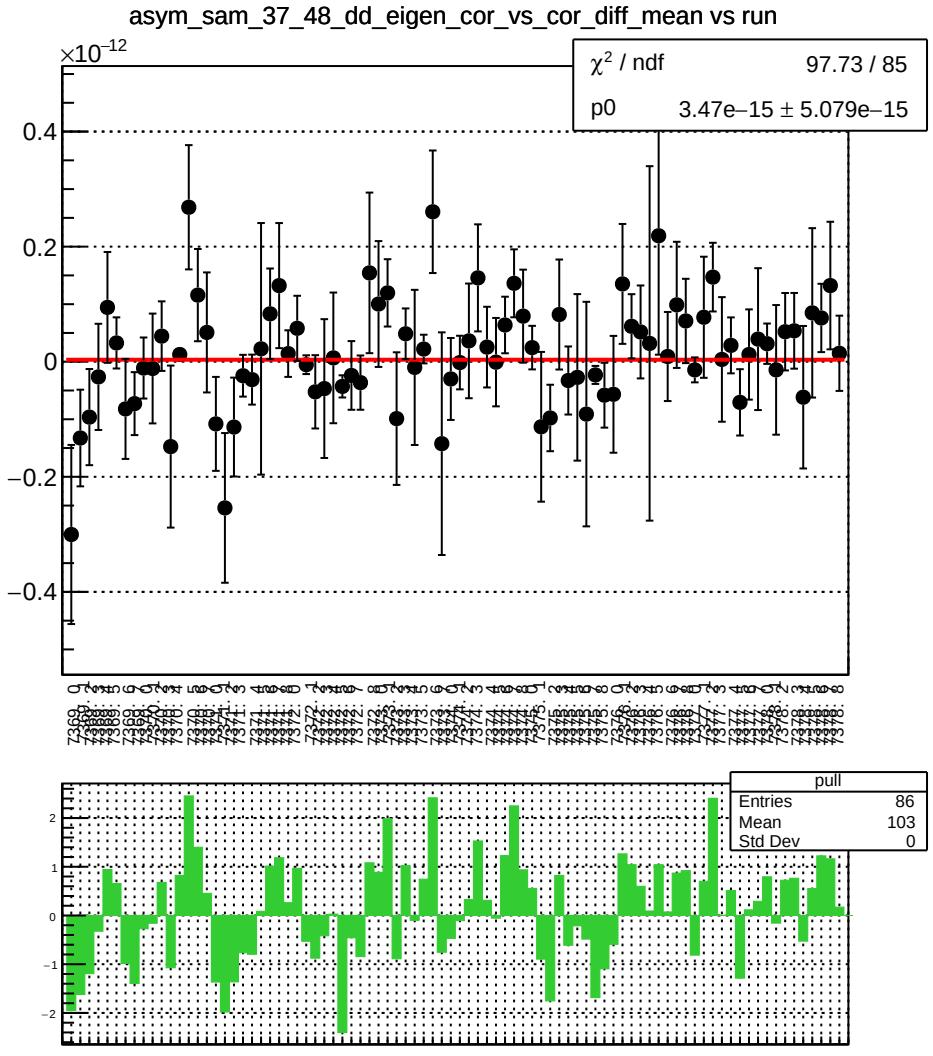

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.442e+05 / 85
p0 91.72 ± 0.07391
200
180
160
140
120
100
80
60
40

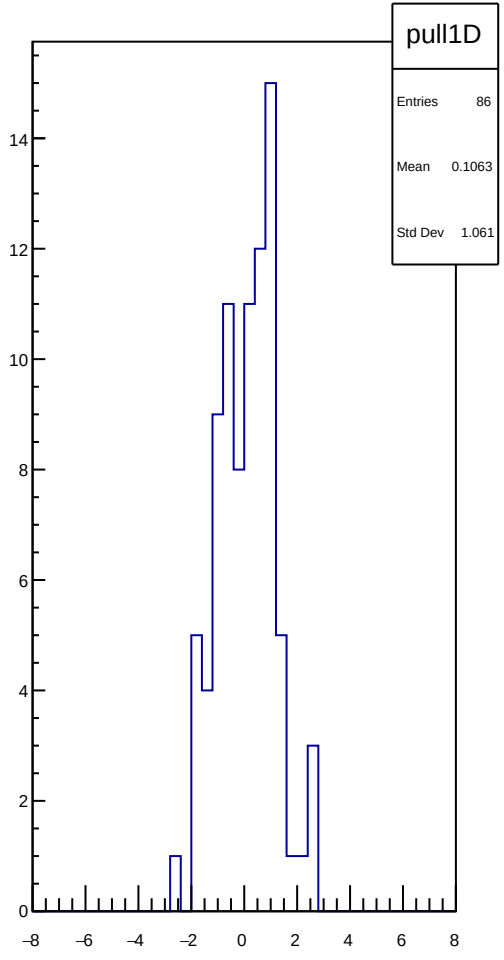
asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

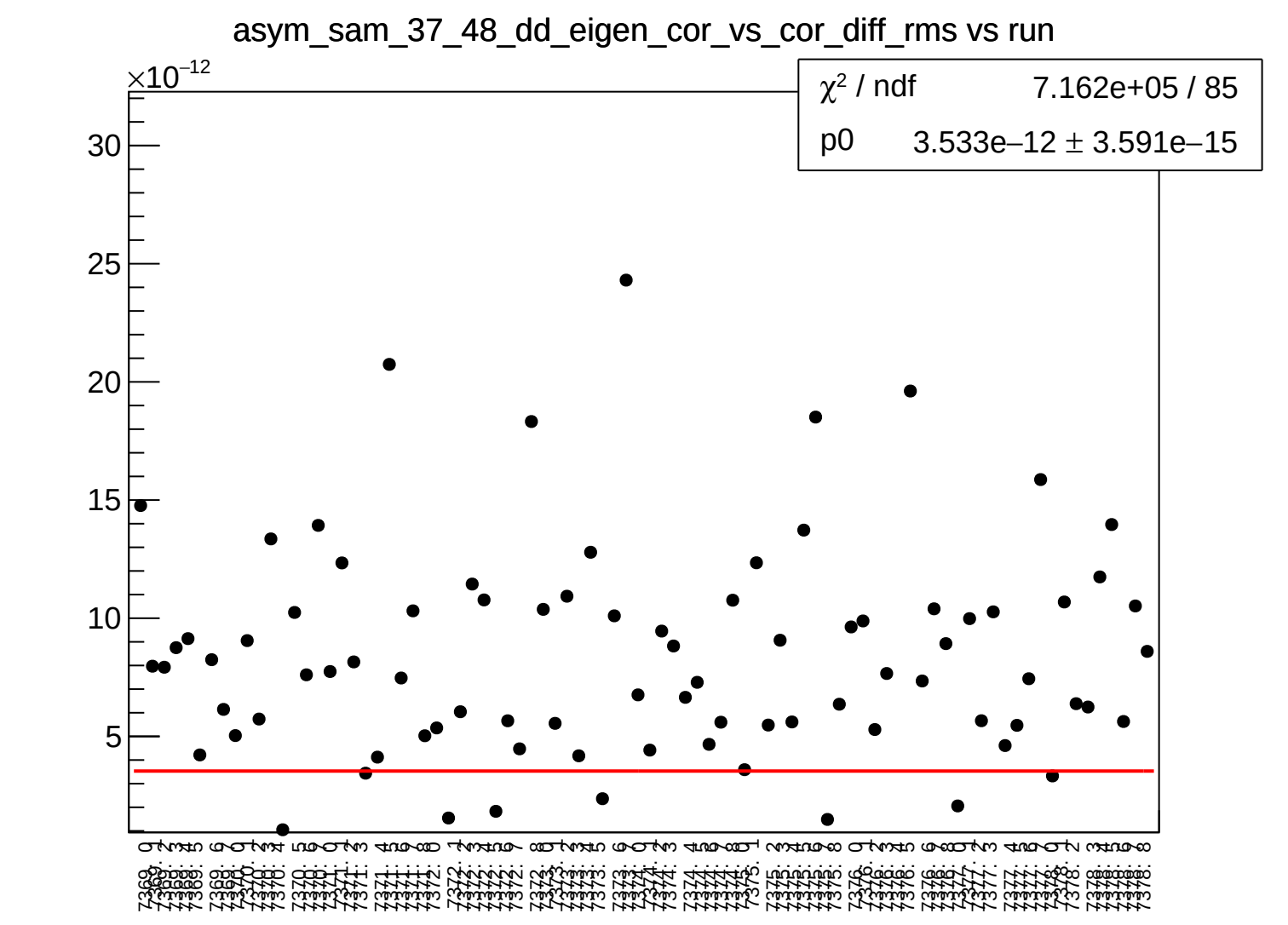


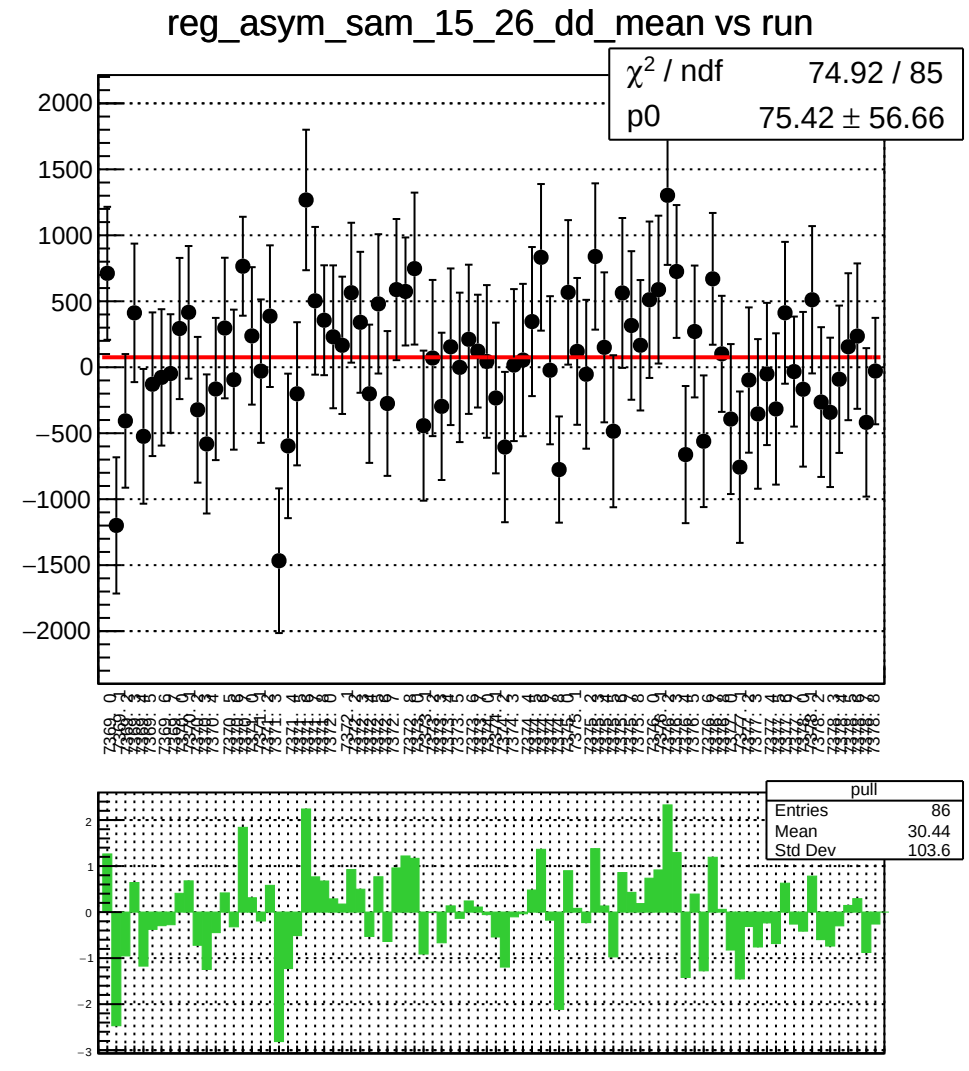


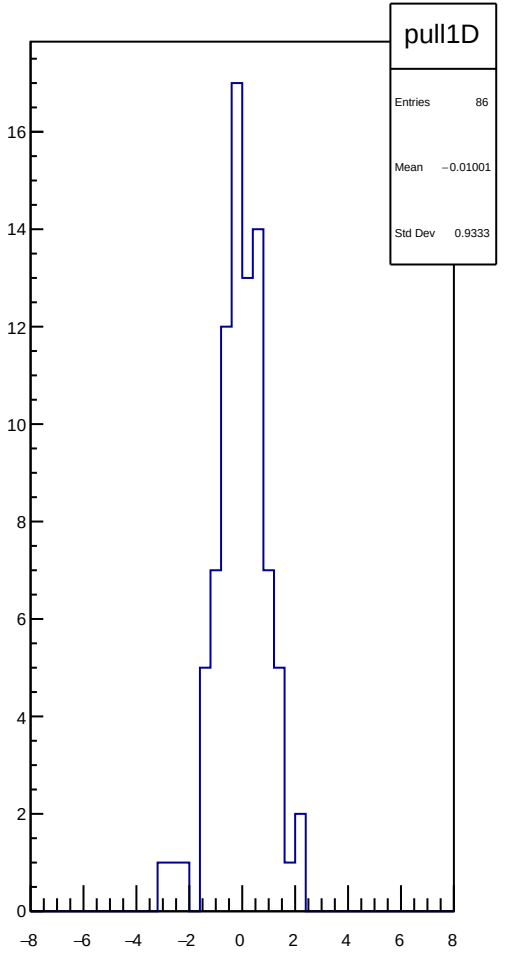

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.442e+05 / 85
p0 91.72 ± 0.07391
200
180
160
140
120
100
80
60
40

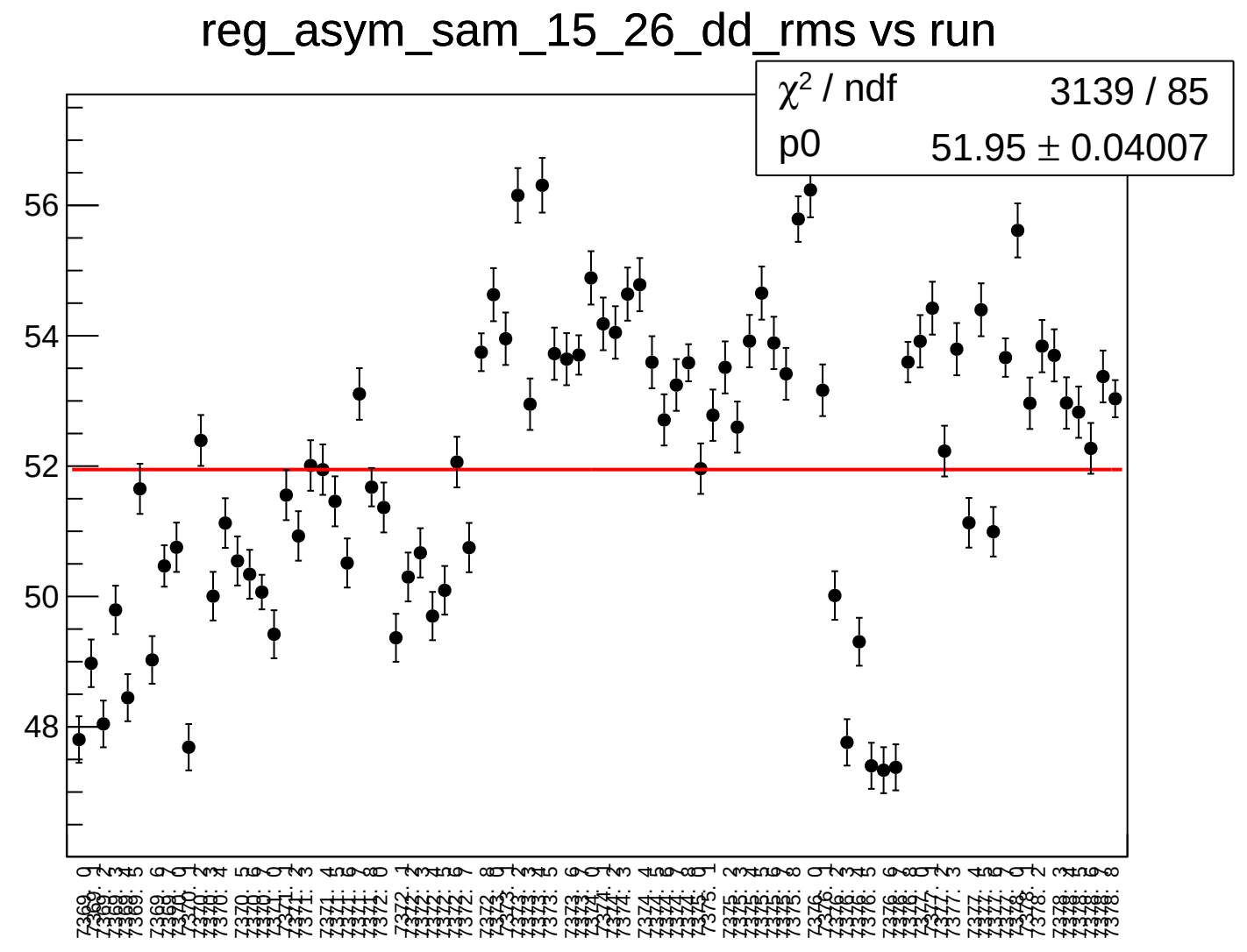

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.73 / 85
p0 3.47e−15 ± 5.079e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 86
Mean 103
Std Dev 0
2
1
0
−1
−2

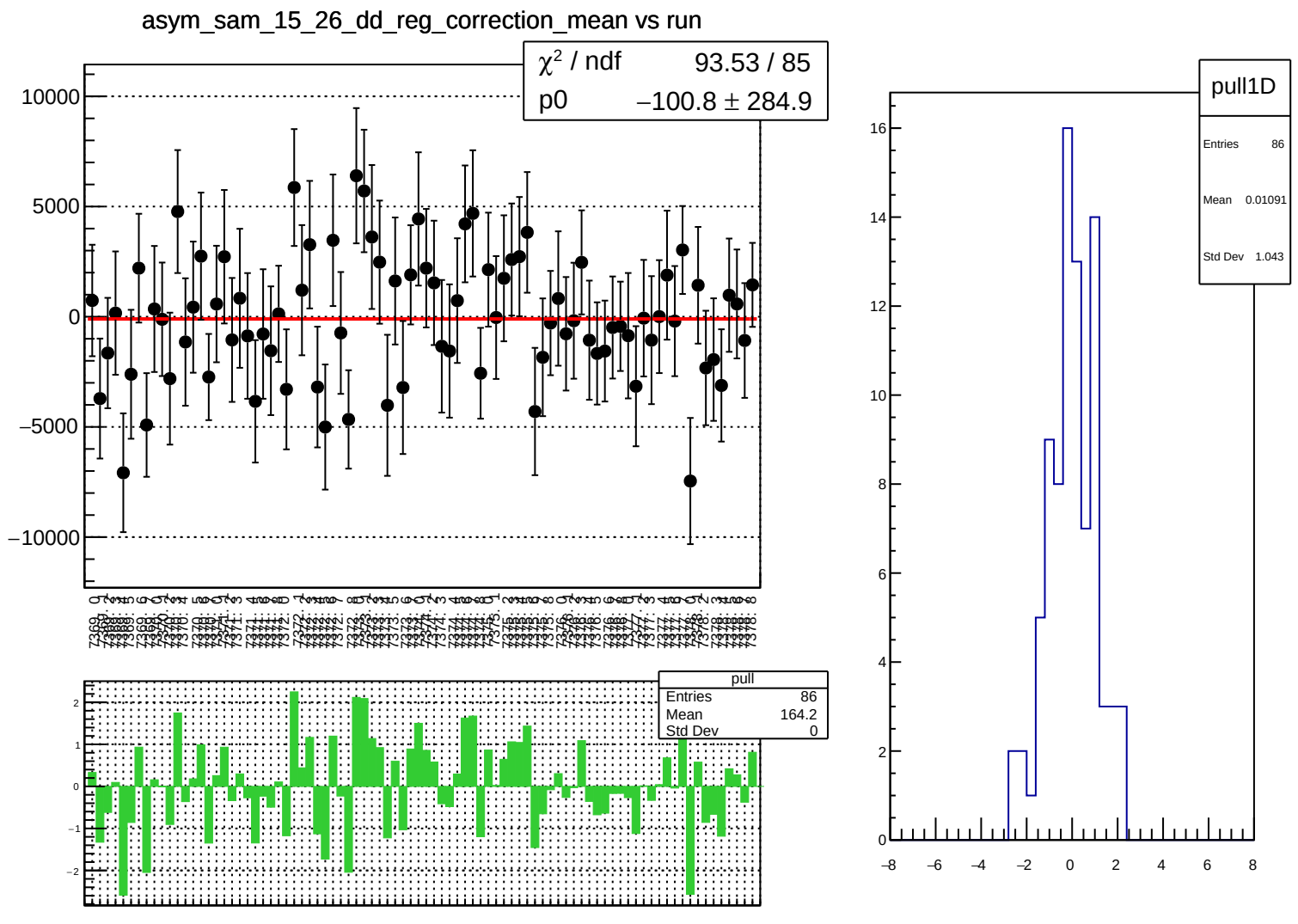

pull1D
Entries 86
Mean 0.1063
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

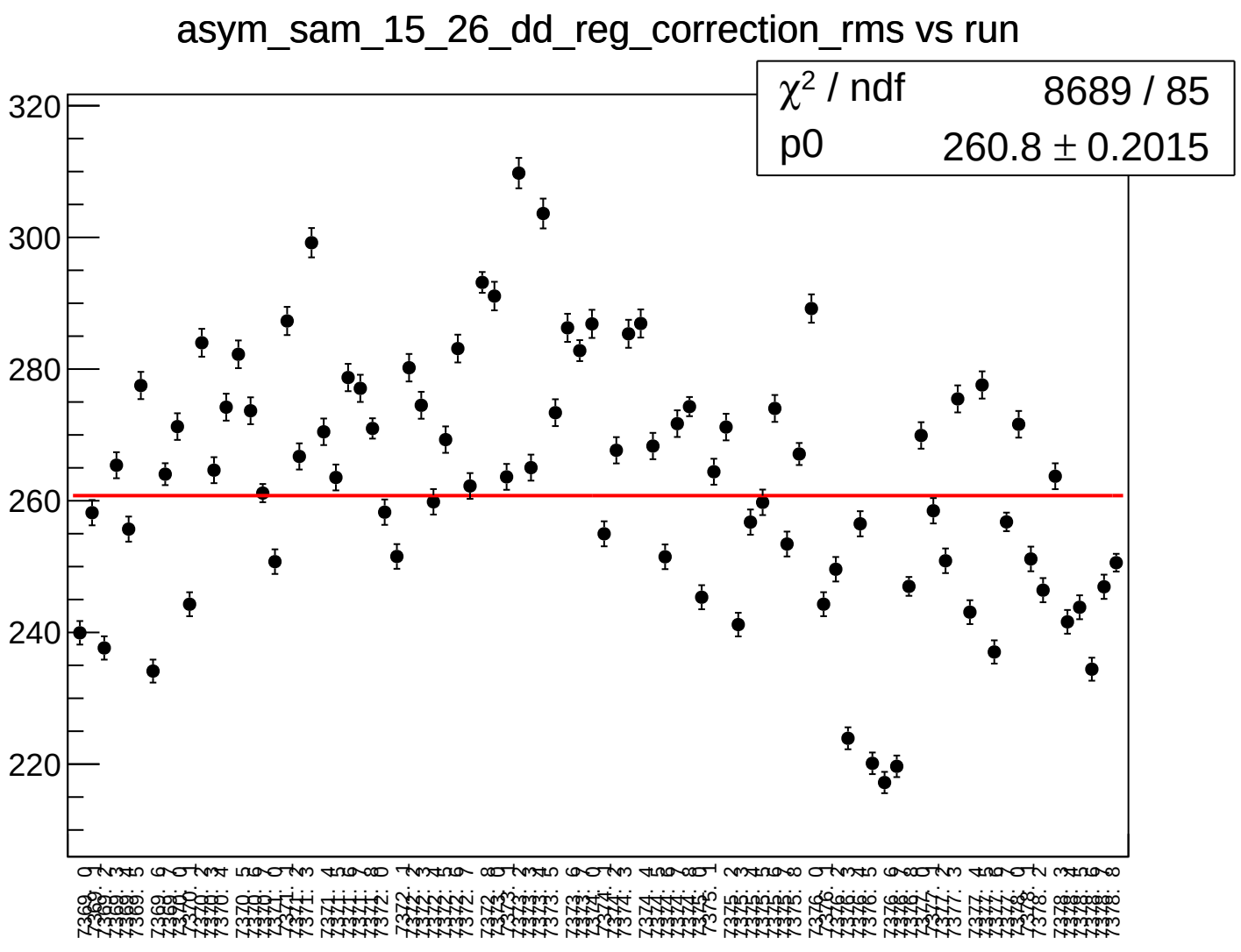

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.162e+05 / 85
p0 3.533e−12 ± 3.591e−15
30
25
20
15
10
5

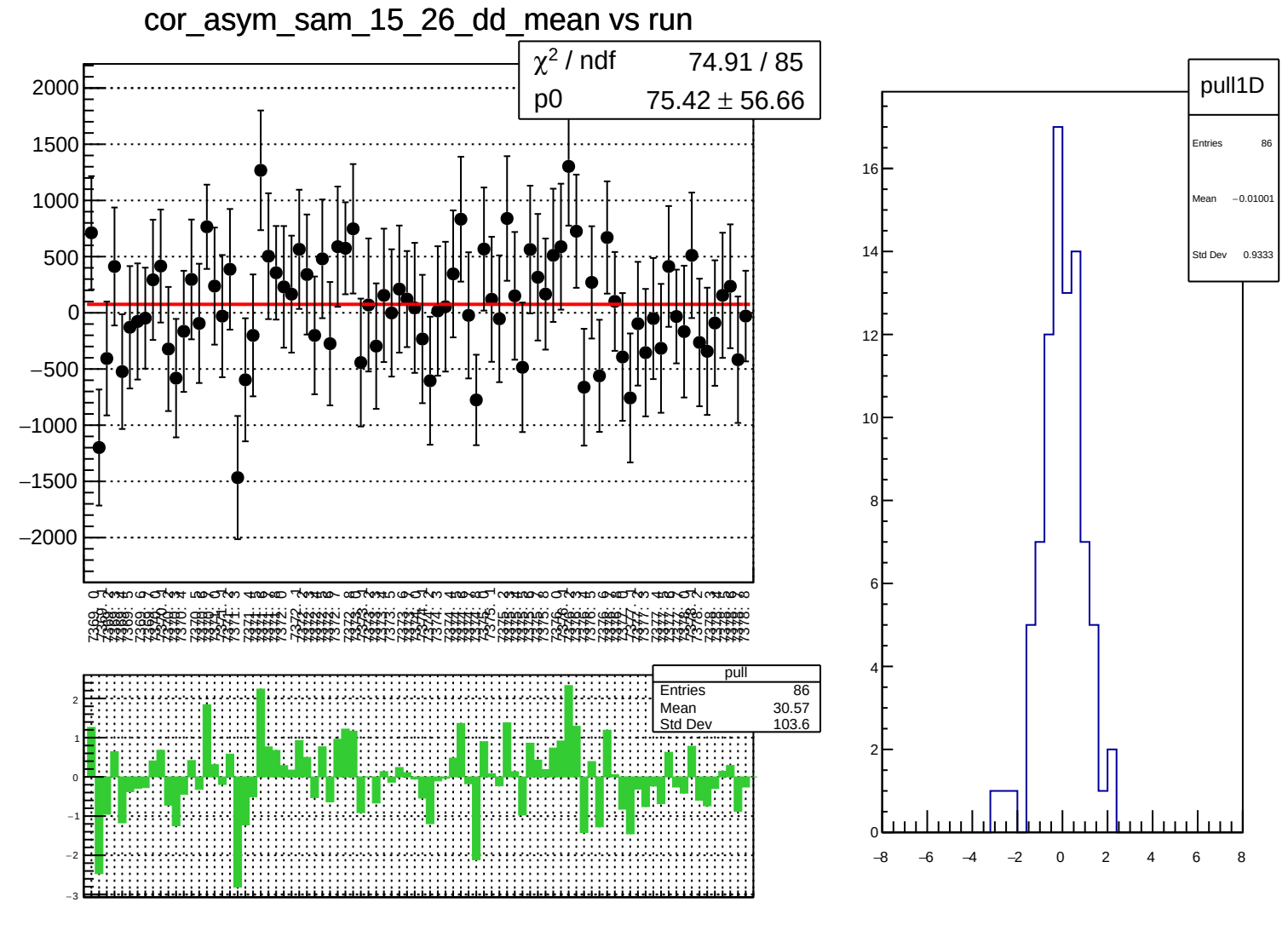

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 74.92 / 85
p0 75.42 ± 56.66
pull
Entries 86
Mean 30.44
Std Dev 103.6

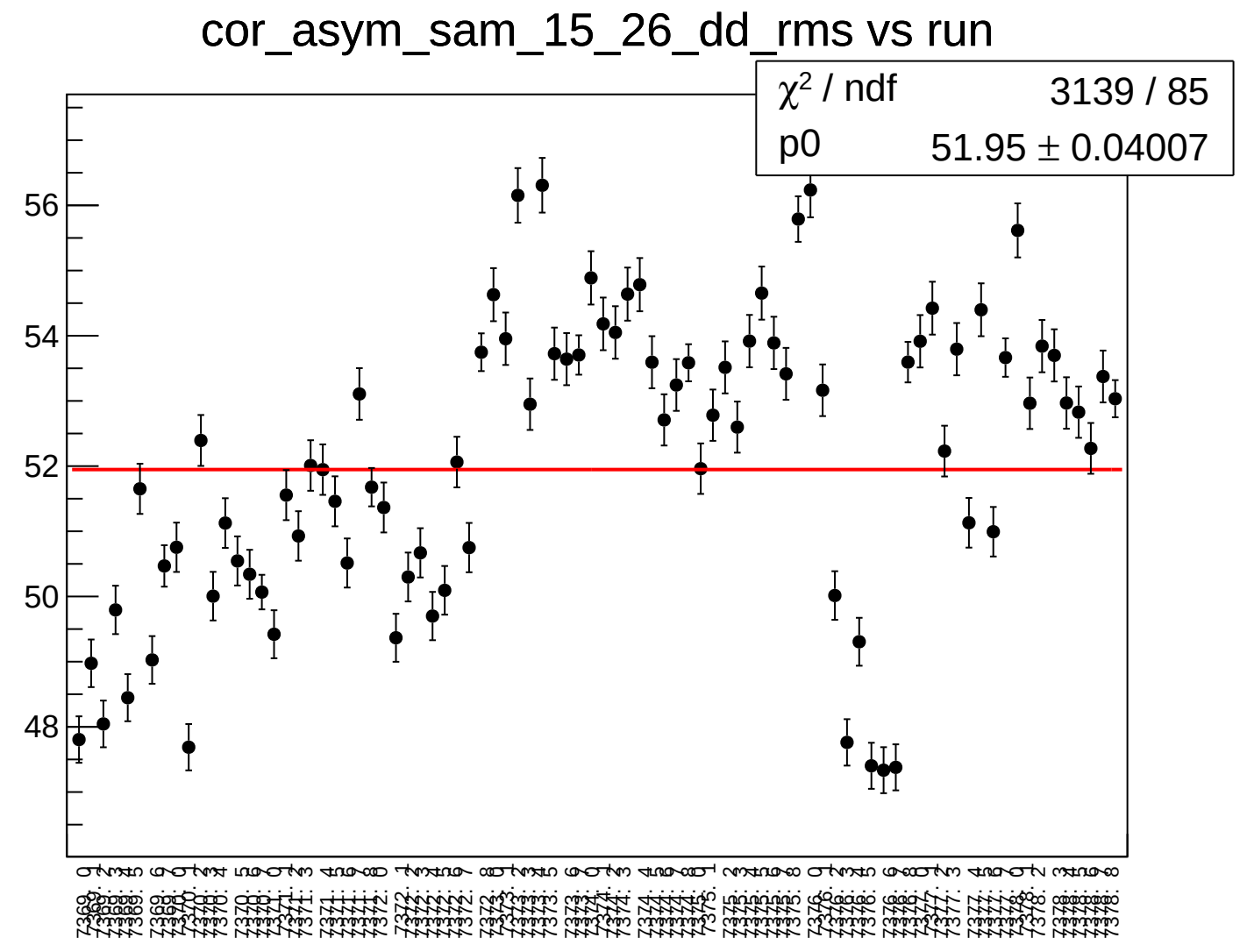

pull1D
Entries 86
Mean −0.01001
Std Dev 0.9333

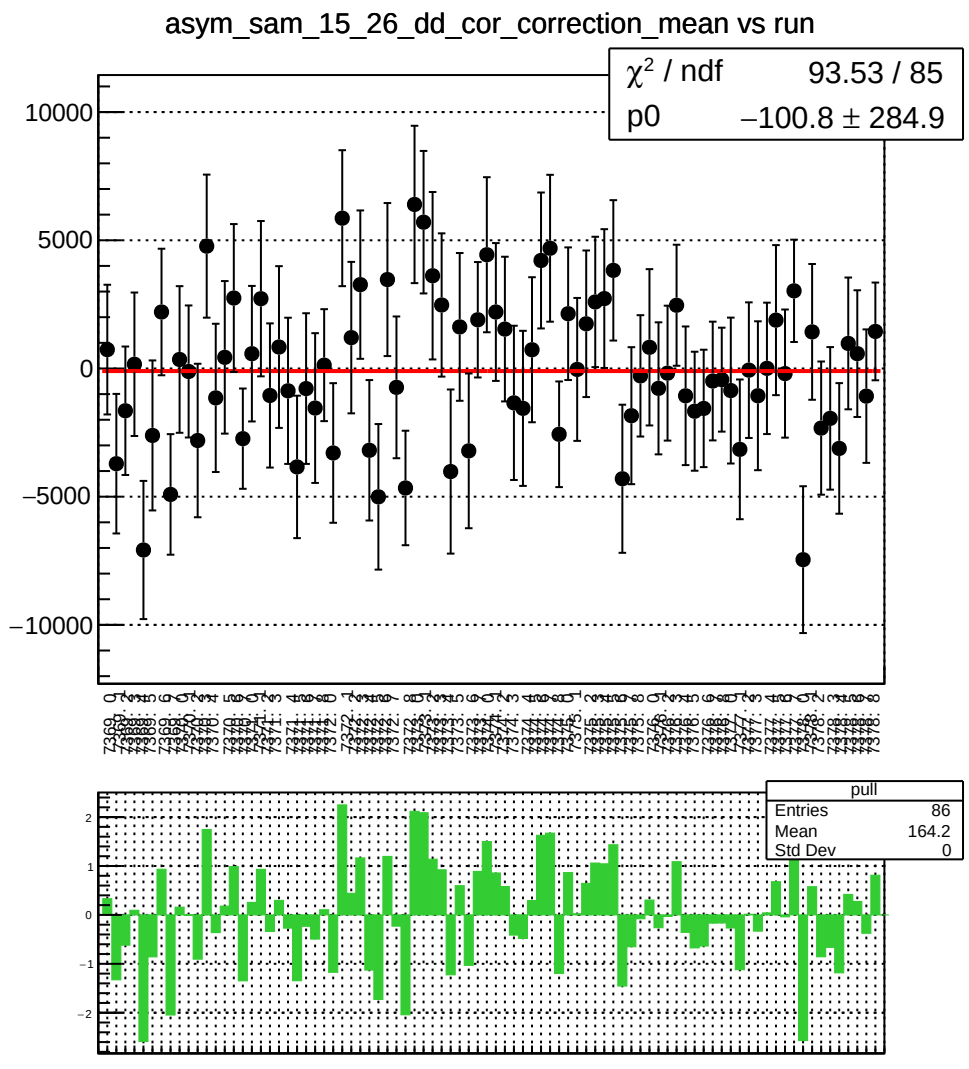

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 3139 / 85
p0 51.95 ± 0.04007
56
54
52
50
48

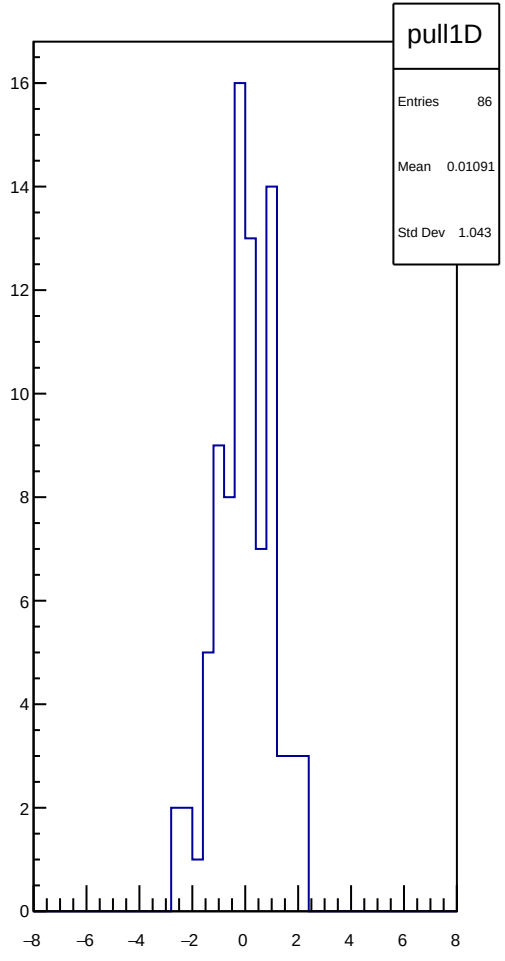

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 93.53 / 85
p0 −100.8 ± 284.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 164.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01091
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

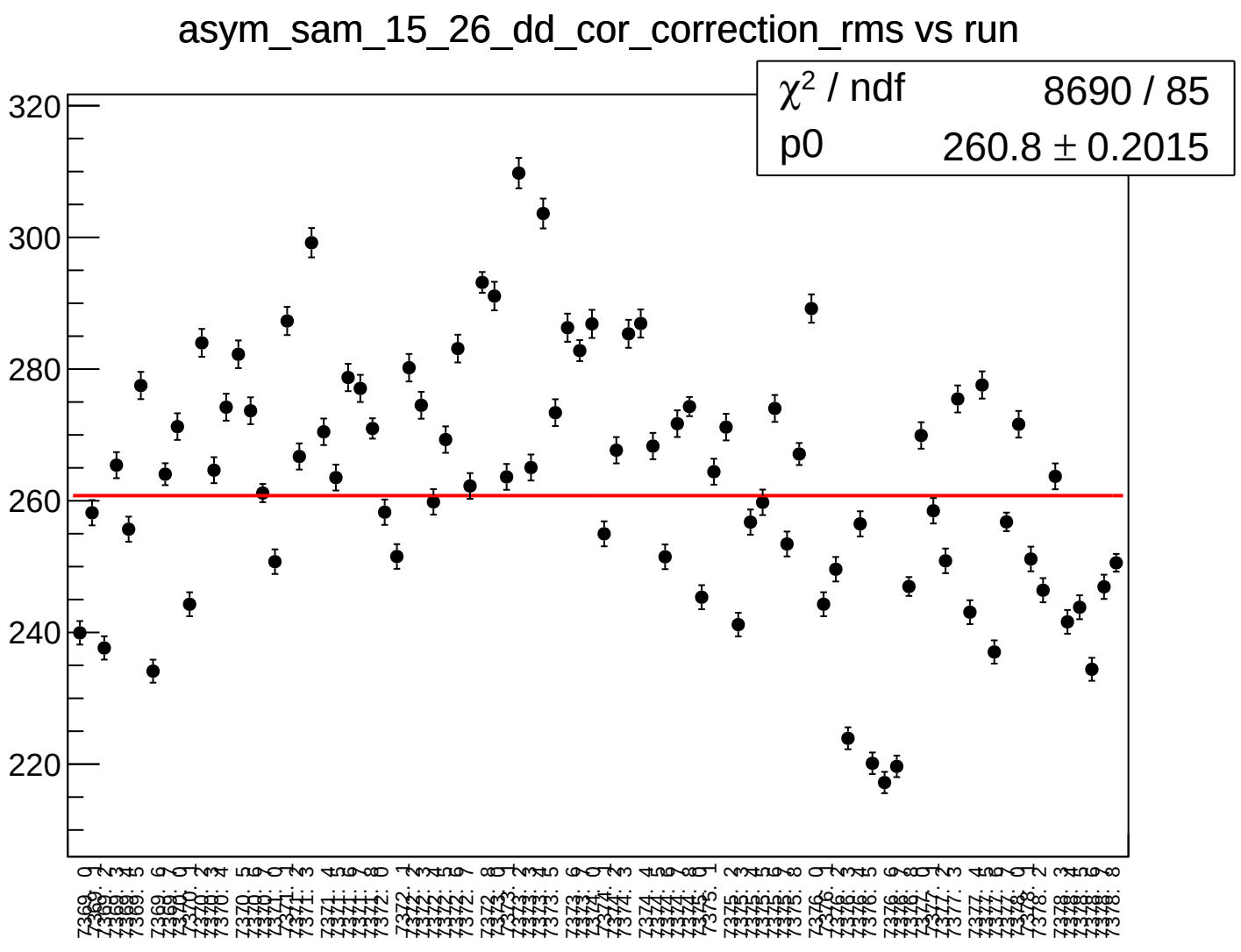

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 8689 / 85
p0 260.8 ± 0.2015
320
300
280
260
240
220

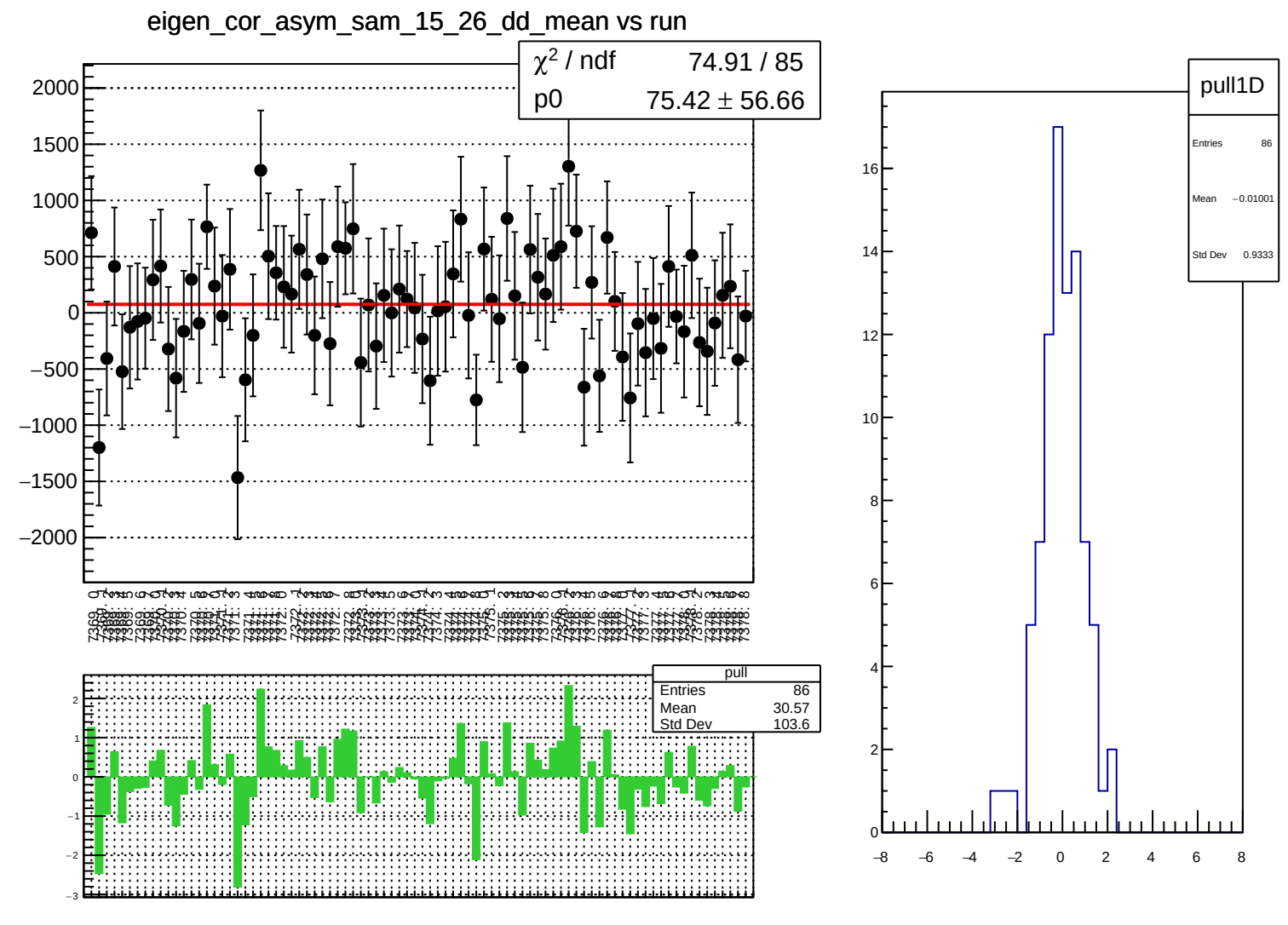

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 74.91 / 85
p0 75.42 ± 56.66
pull
Entries 86
Mean 30.57
Std Dev 103.6
pull1D
Entries 86
Mean −0.01001
Std Dev 0.9333

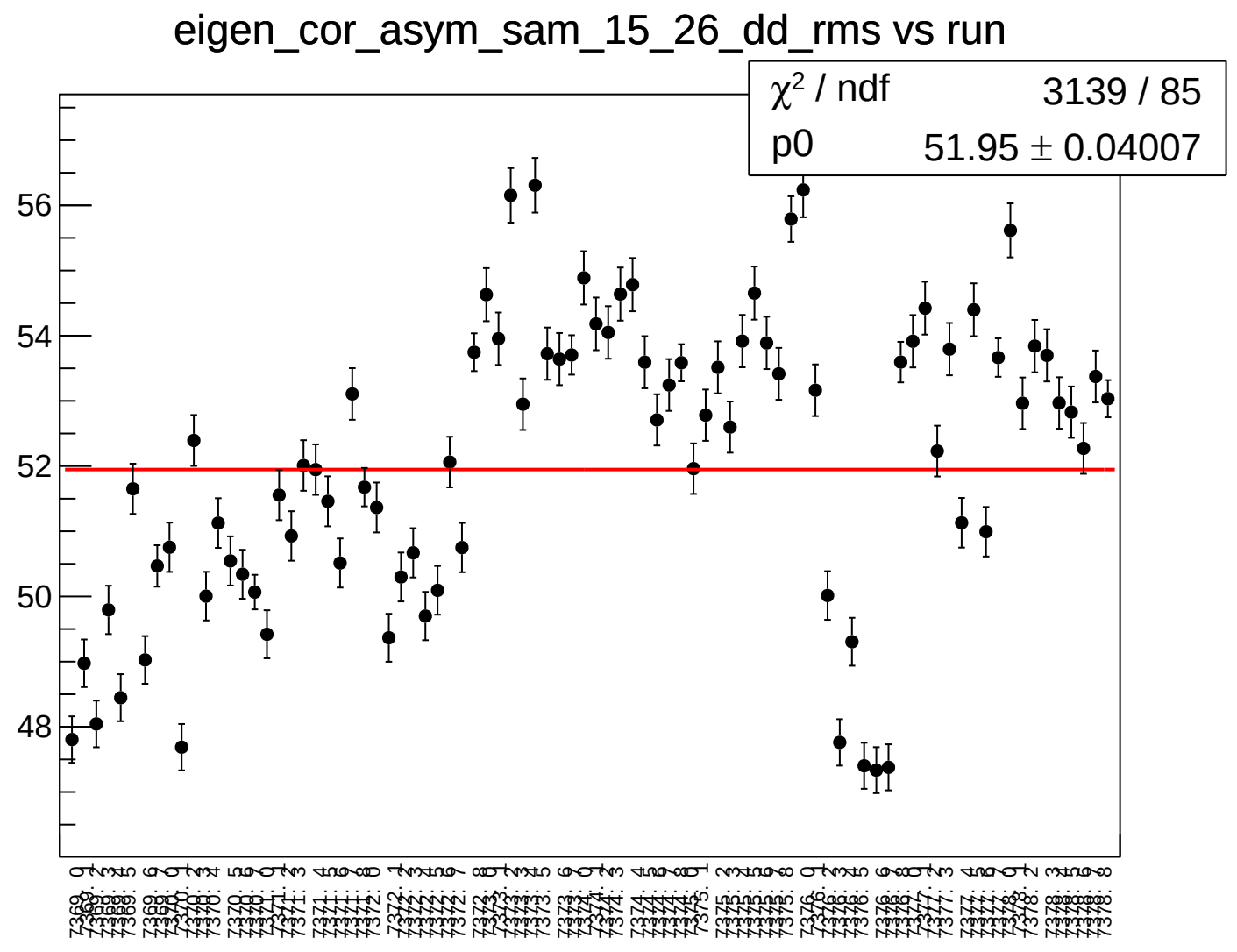

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 3139 / 85
p0 51.95 ± 0.04007
56
54
52
50
48

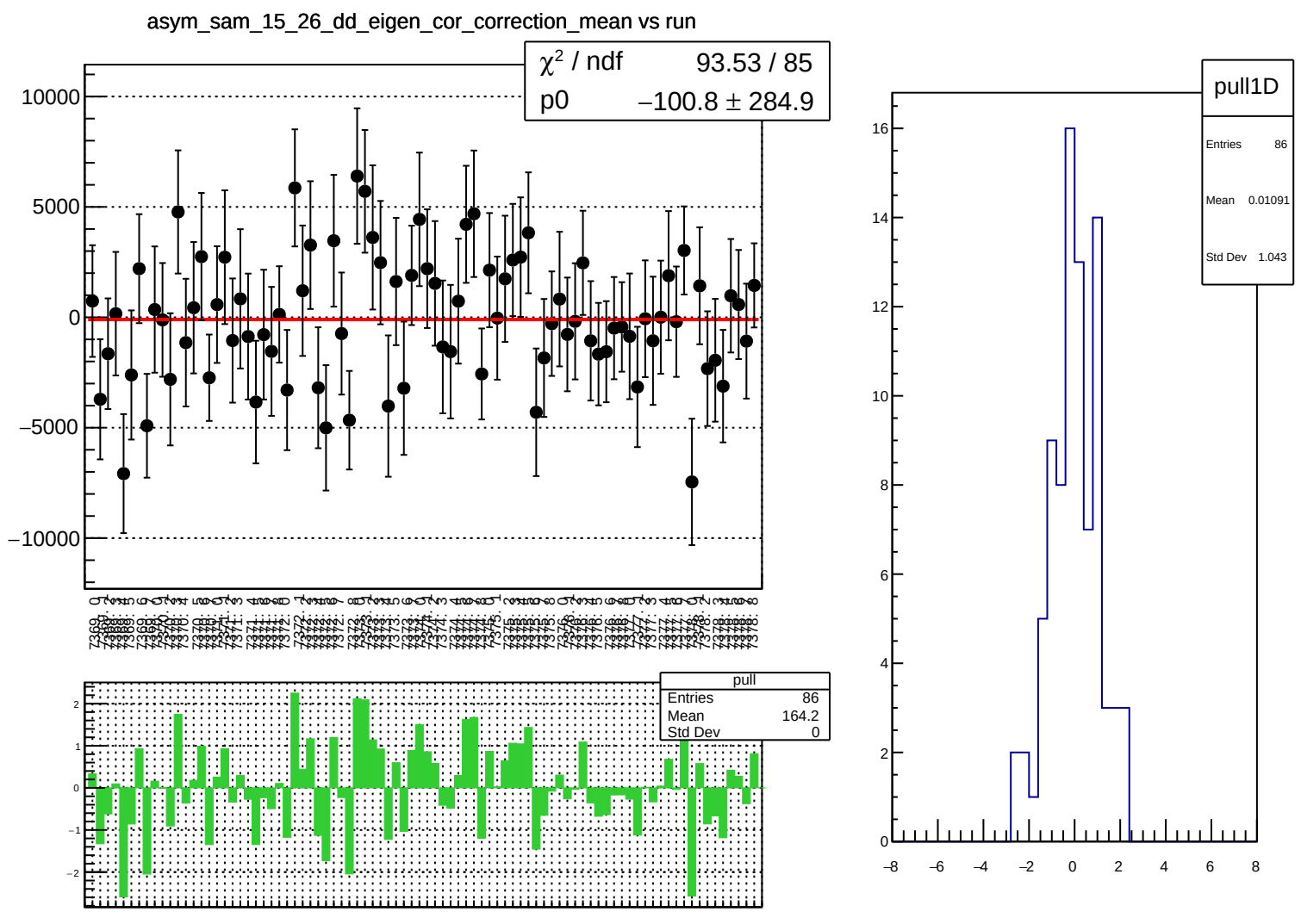

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 93.53 / 85
p0 −100.8 ± 284.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 164.2
Std Dev 0
2
1
0
−1
−2

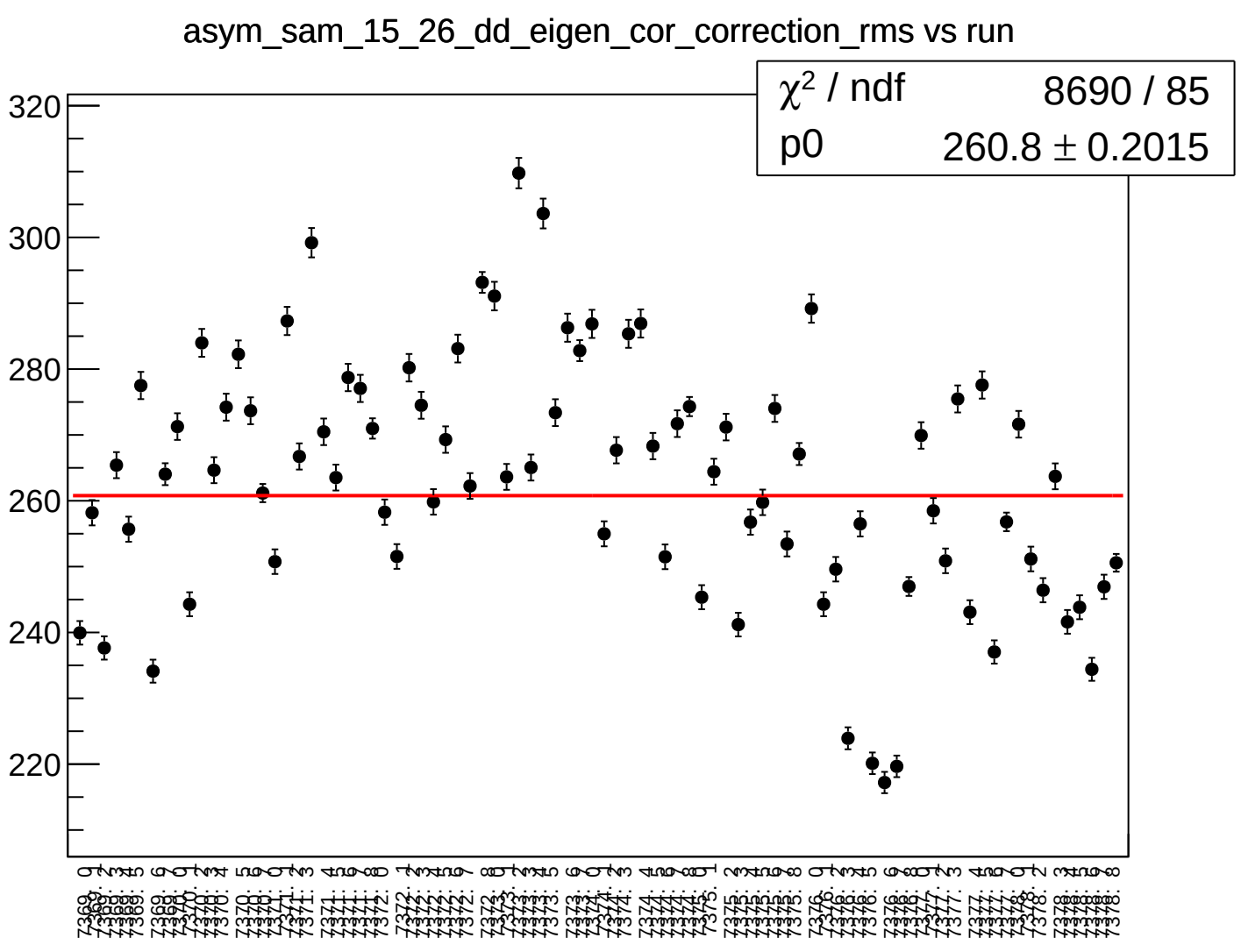

pull1D
Entries 86
Mean 0.01091
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

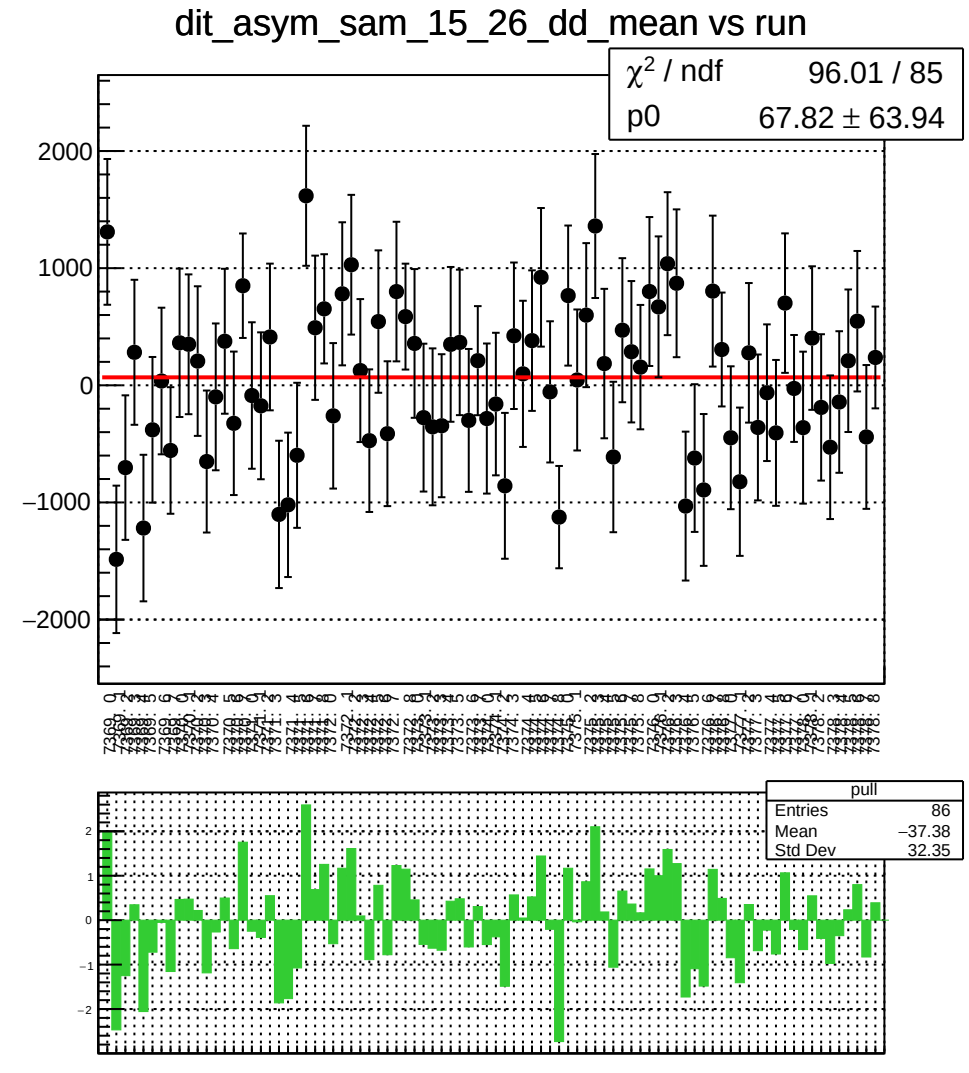

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 8690 / 85
p0 260.8 ± 0.2015
320
300
280
260
240
220

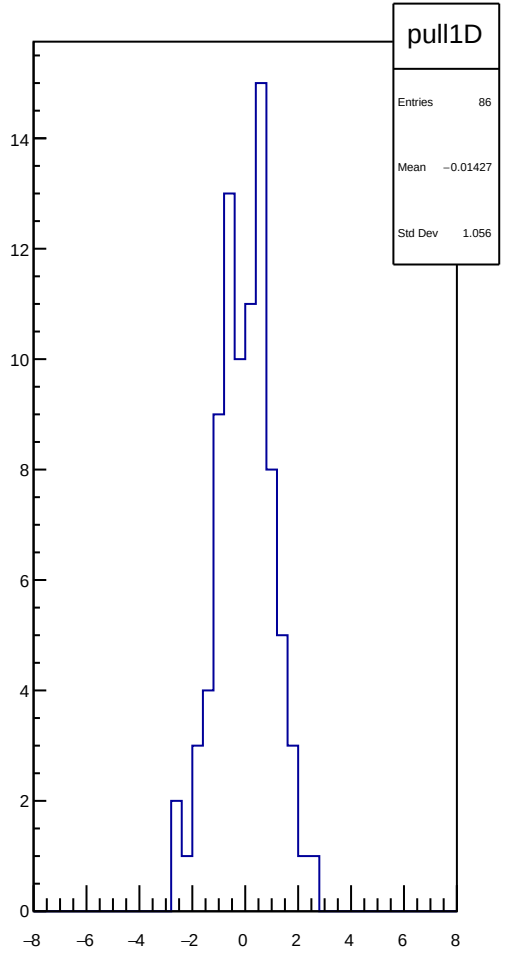

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 74.91 / 85
p0 75.42 ± 56.66
pull
Entries 86
Mean 30.57
Std Dev 103.6
pull1D
Entries 86
Mean −0.01001
Std Dev 0.9333

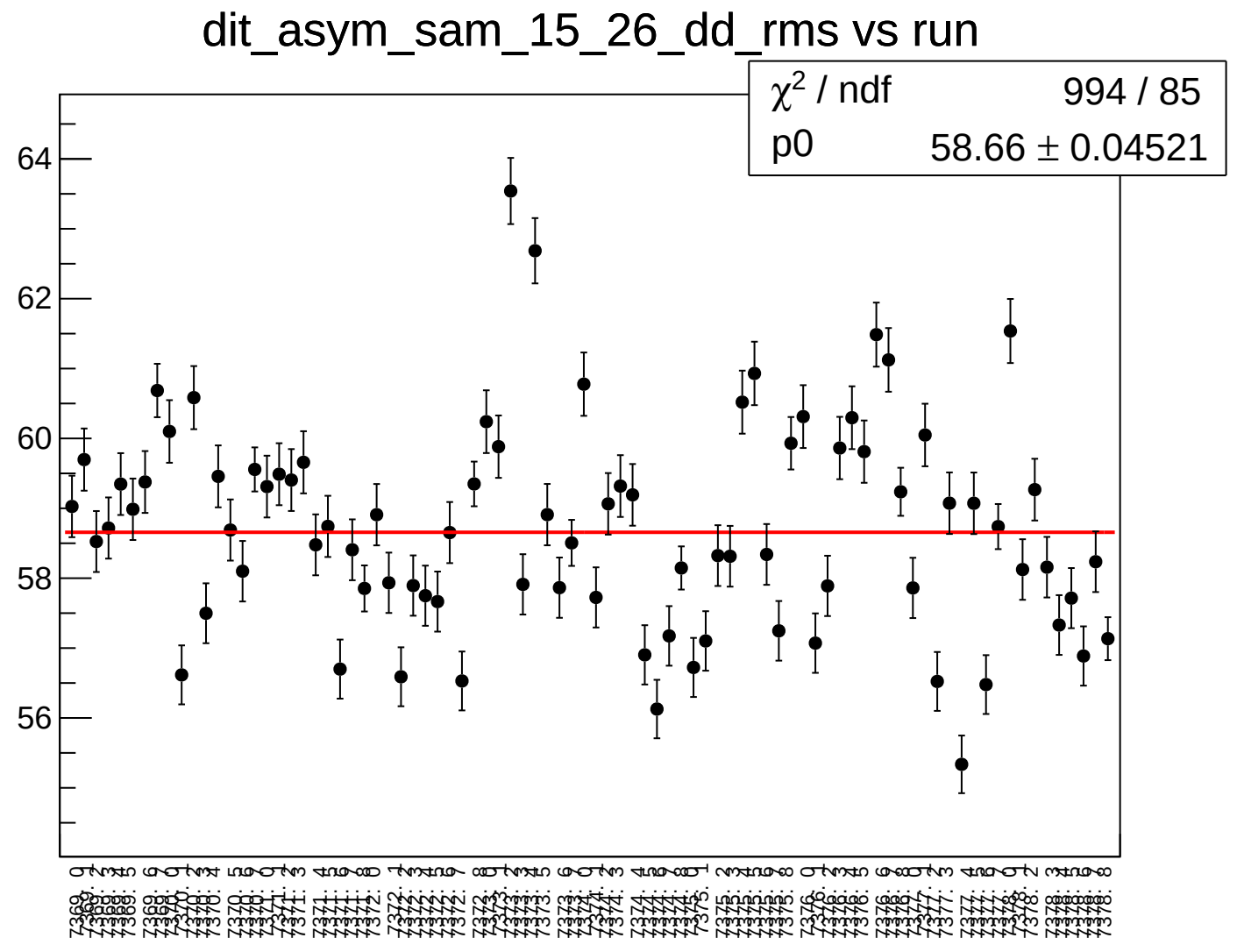

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 3139 / 85
p0 51.95 ± 0.04007
56
54
52
50
48

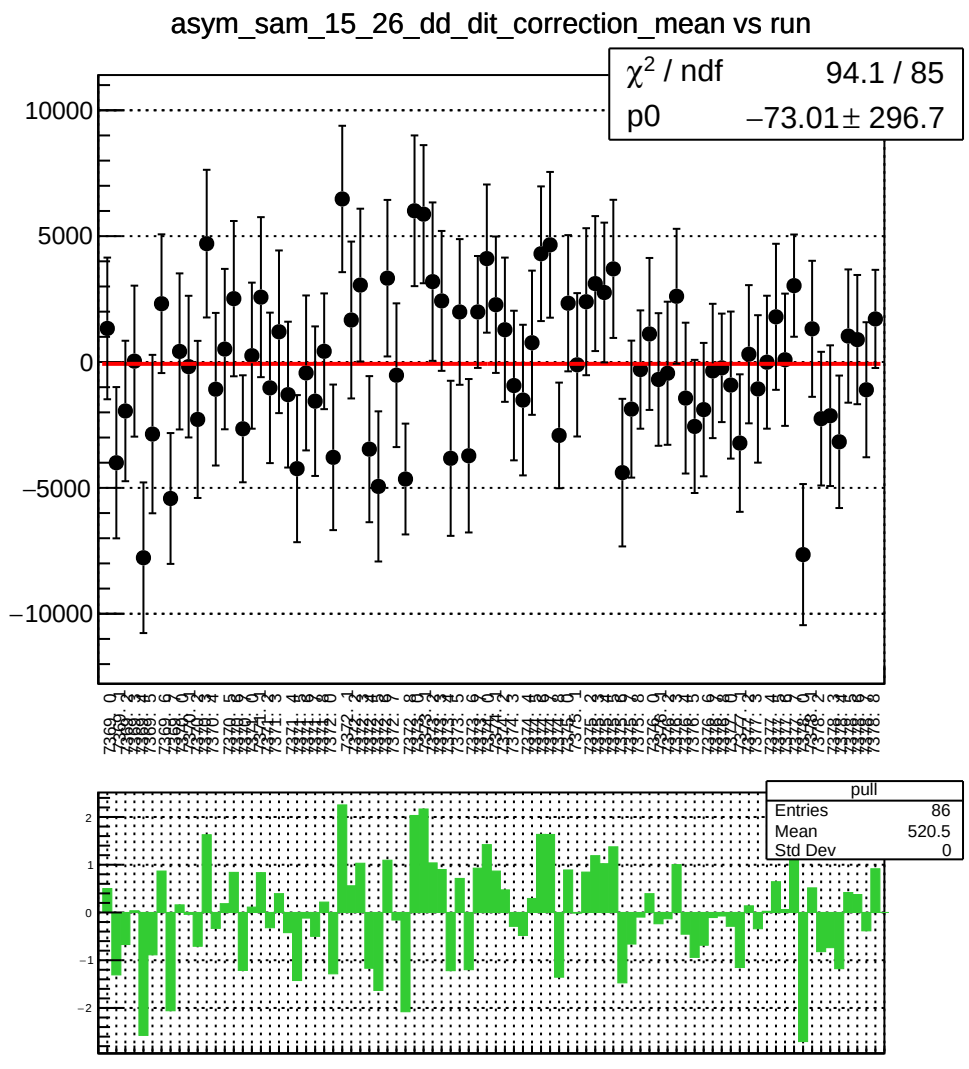

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.53 / 85
p0 −100.8 ± 284.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 164.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01091
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

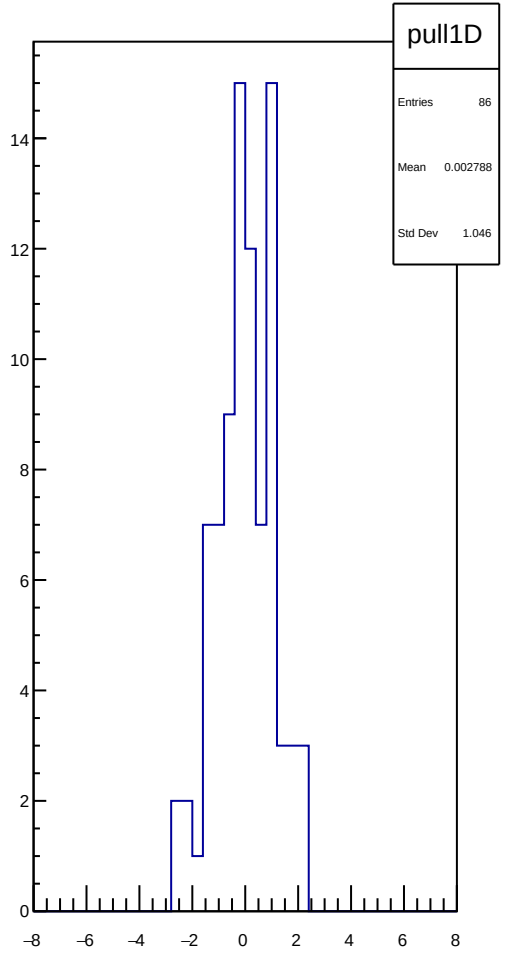

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 8690 / 85
p0 260.8 ± 0.2015
320
300
280
260
240
220

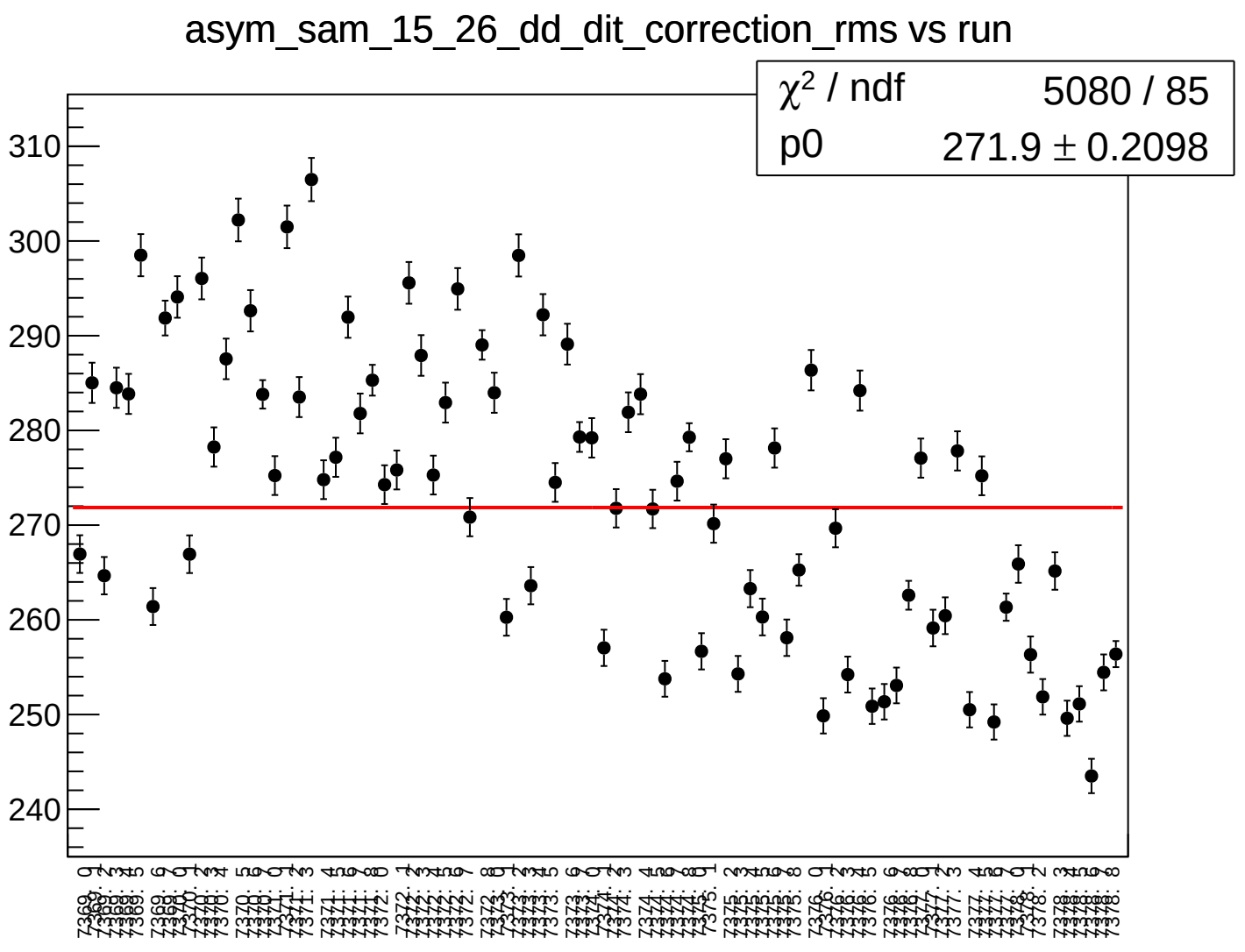

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 96.01 / 85
p0 67.82 ± 63.94
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −37.38
Std Dev 32.35
2
1
0
−1
−2

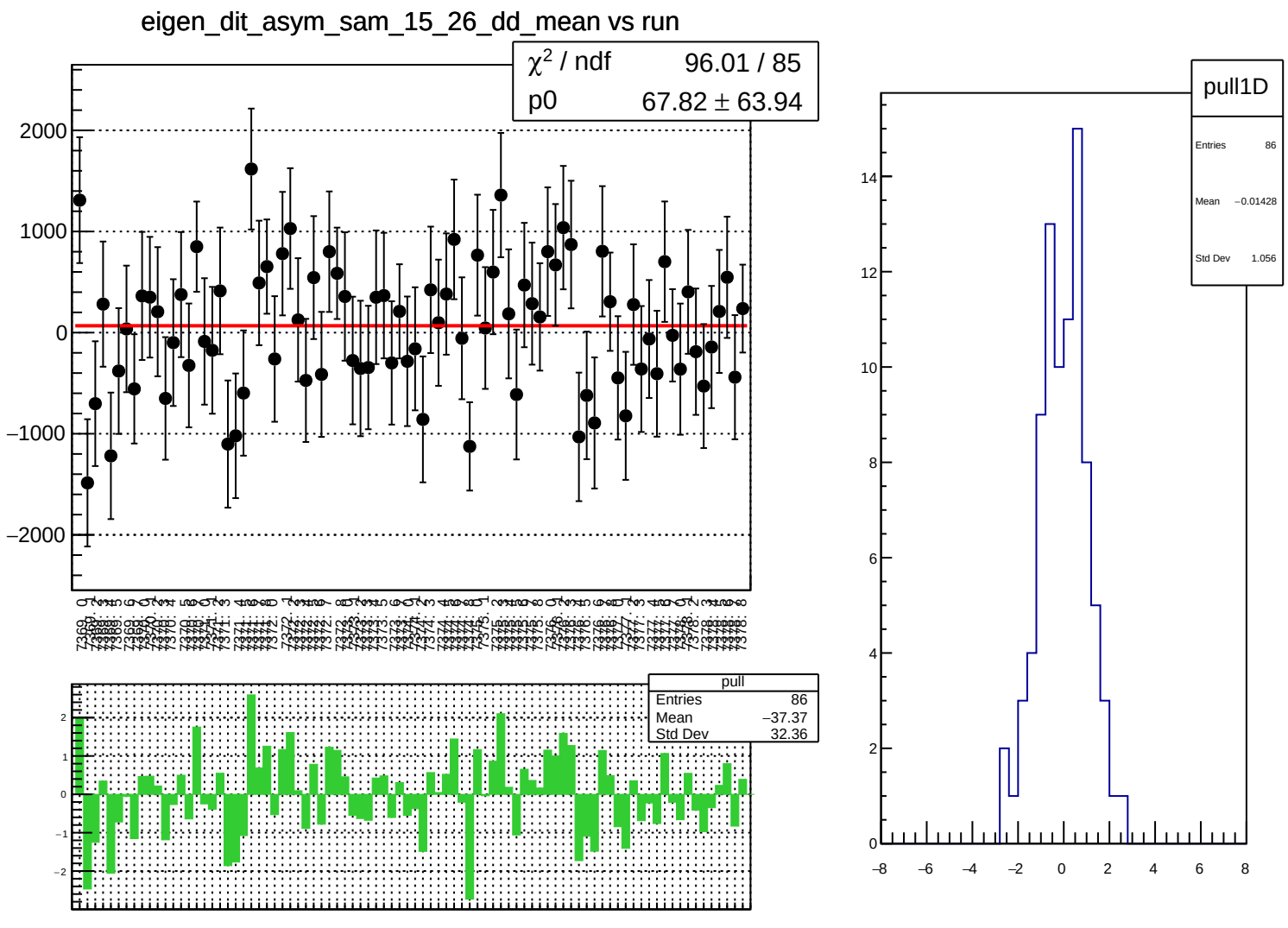

pull1D
Entries 86
Mean −0.01427
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

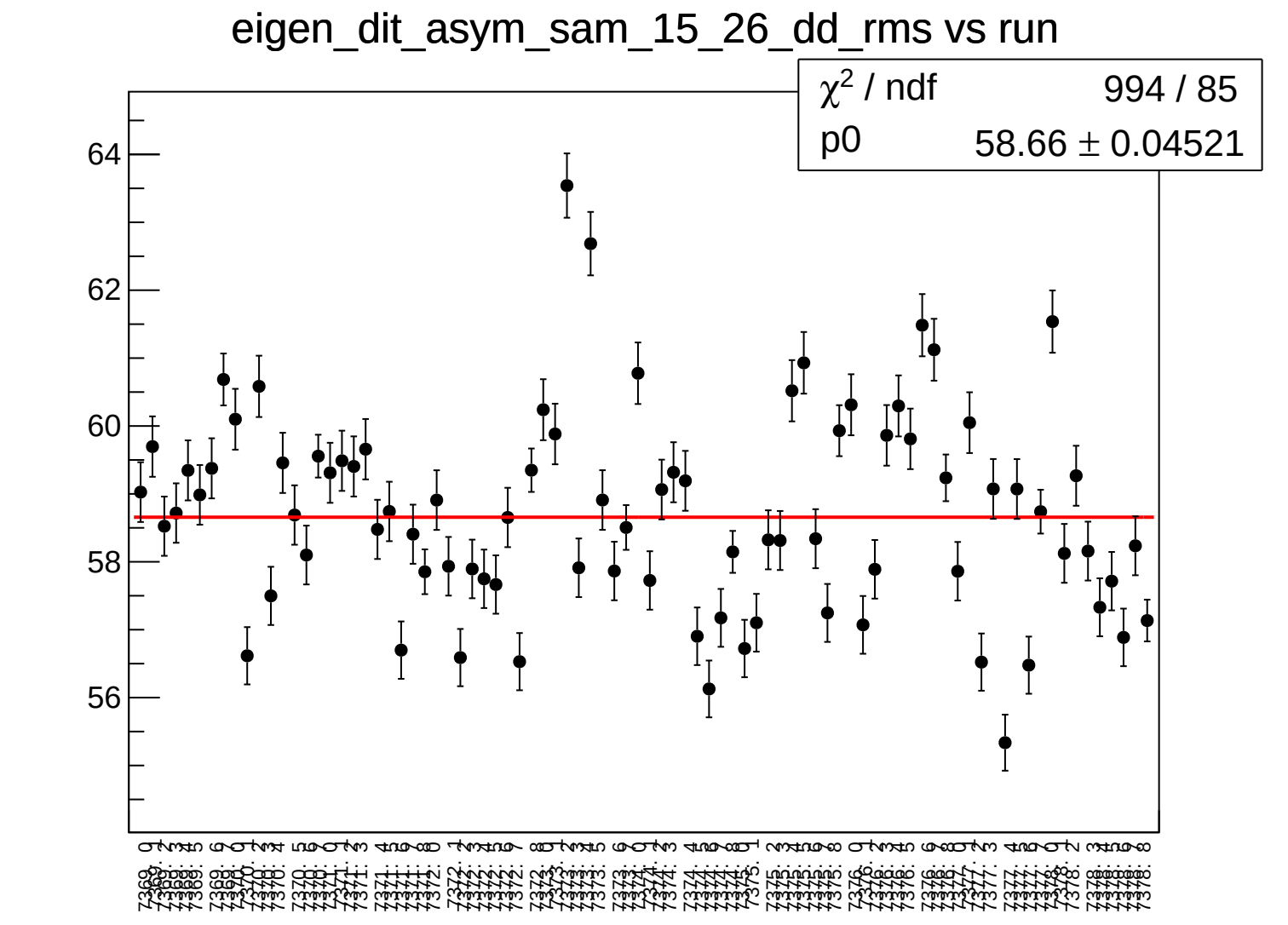

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 994 / 85
p0 58.66 ± 0.04521
64
62
60
58
56

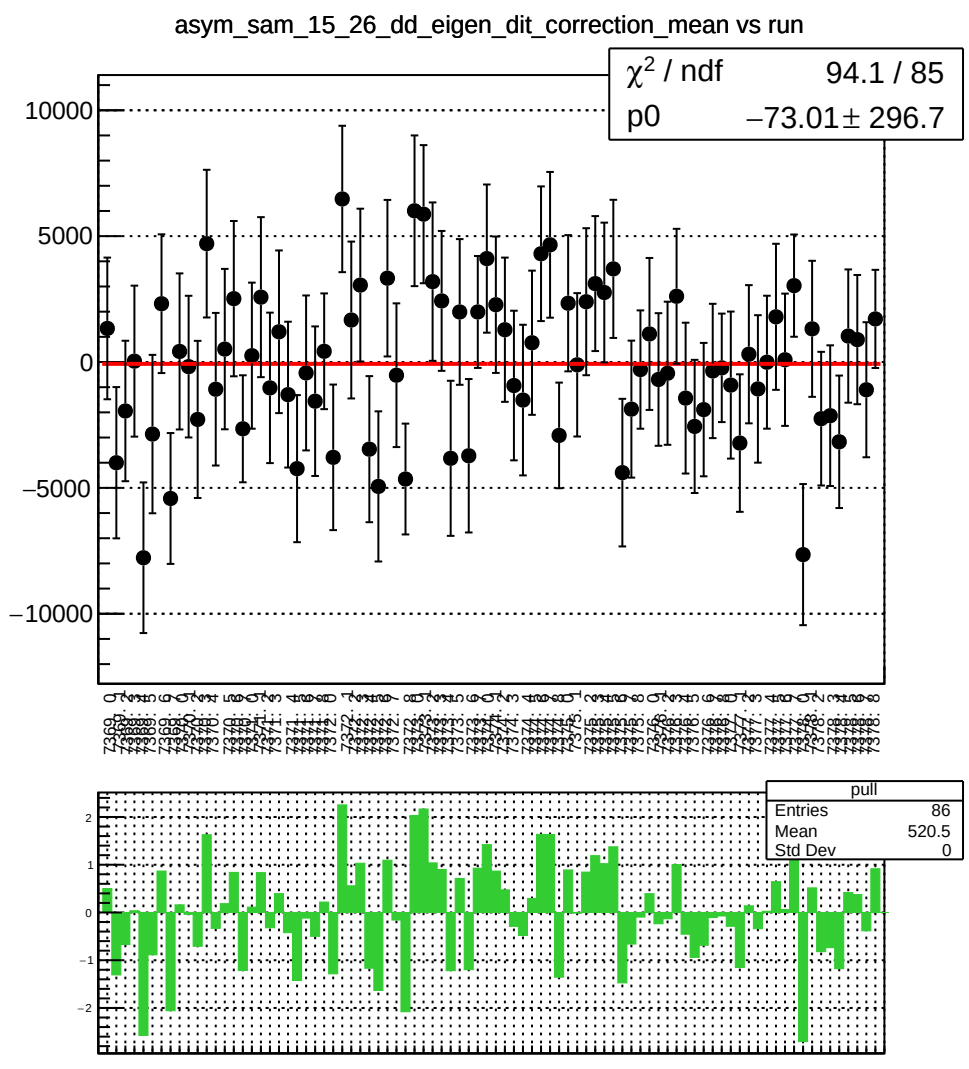

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 94.1 / 85
p0 −73.01 ± 296.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 520.5
Std Dev 0
2
1
0
−1
−2

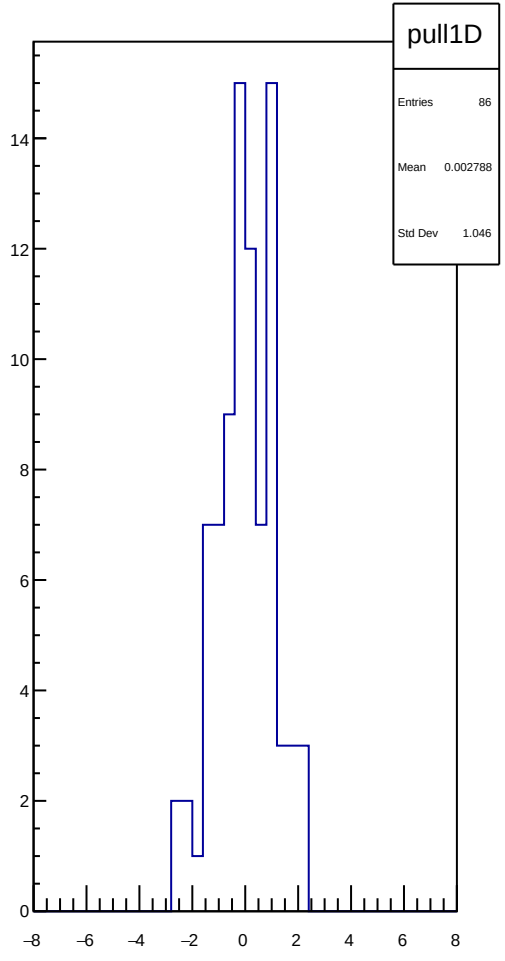

pull1D
Entries 86
Mean 0.002788
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

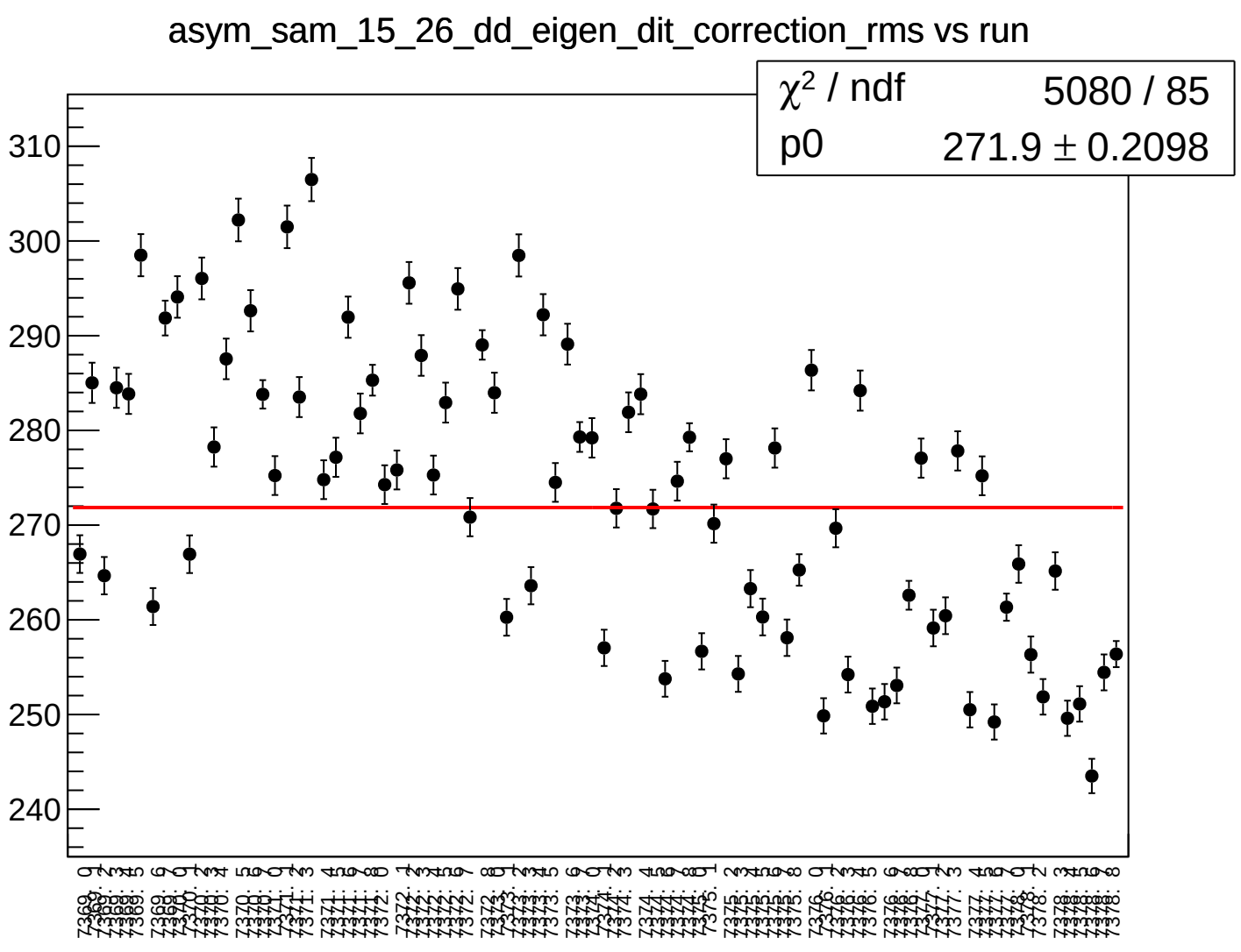

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 5080 / 85
p0 271.9 ± 0.2098
310
300
290
280
270
260
250
240

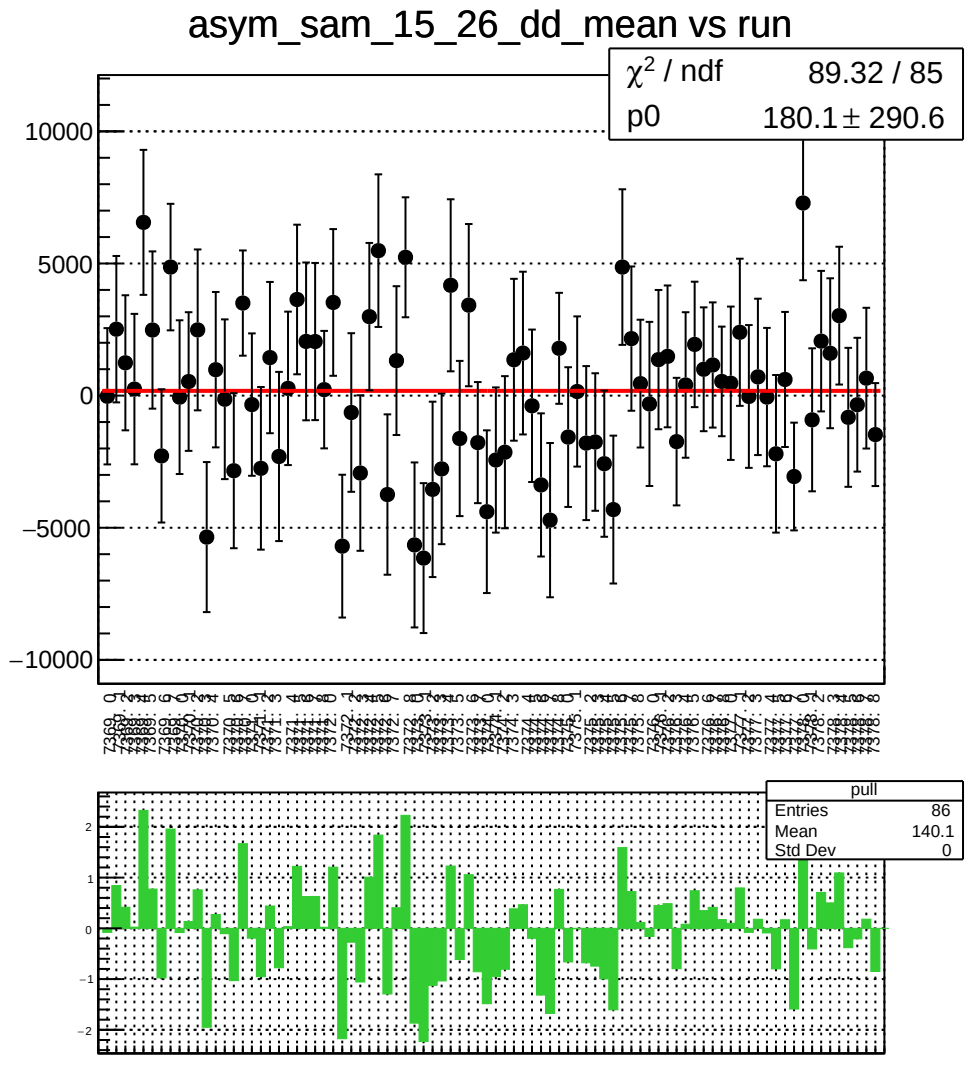

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 96.01 / 85
p0 67.82 ± 63.94
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −37.37
Std Dev 32.36
pull1D
Entries 86
Mean −0.01428
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

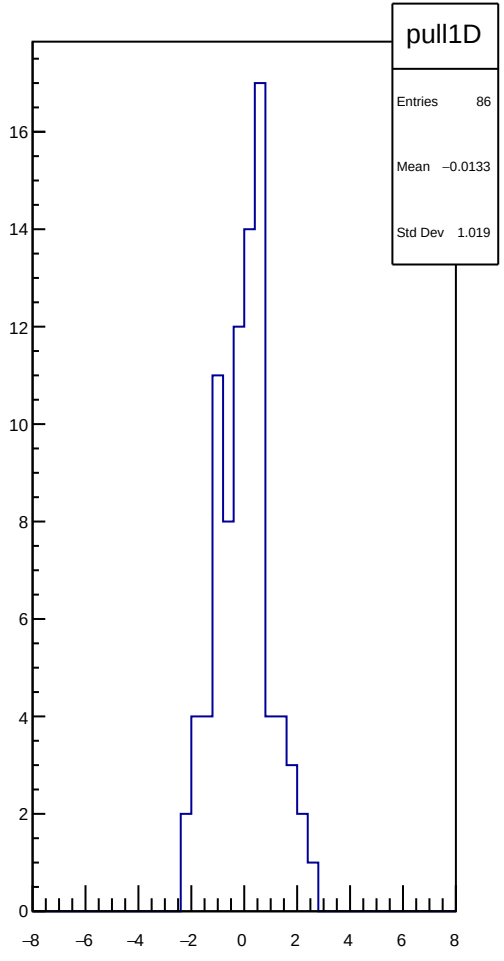

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 994 / 85
p0 58.66 ± 0.04521
64
62
60
58
56

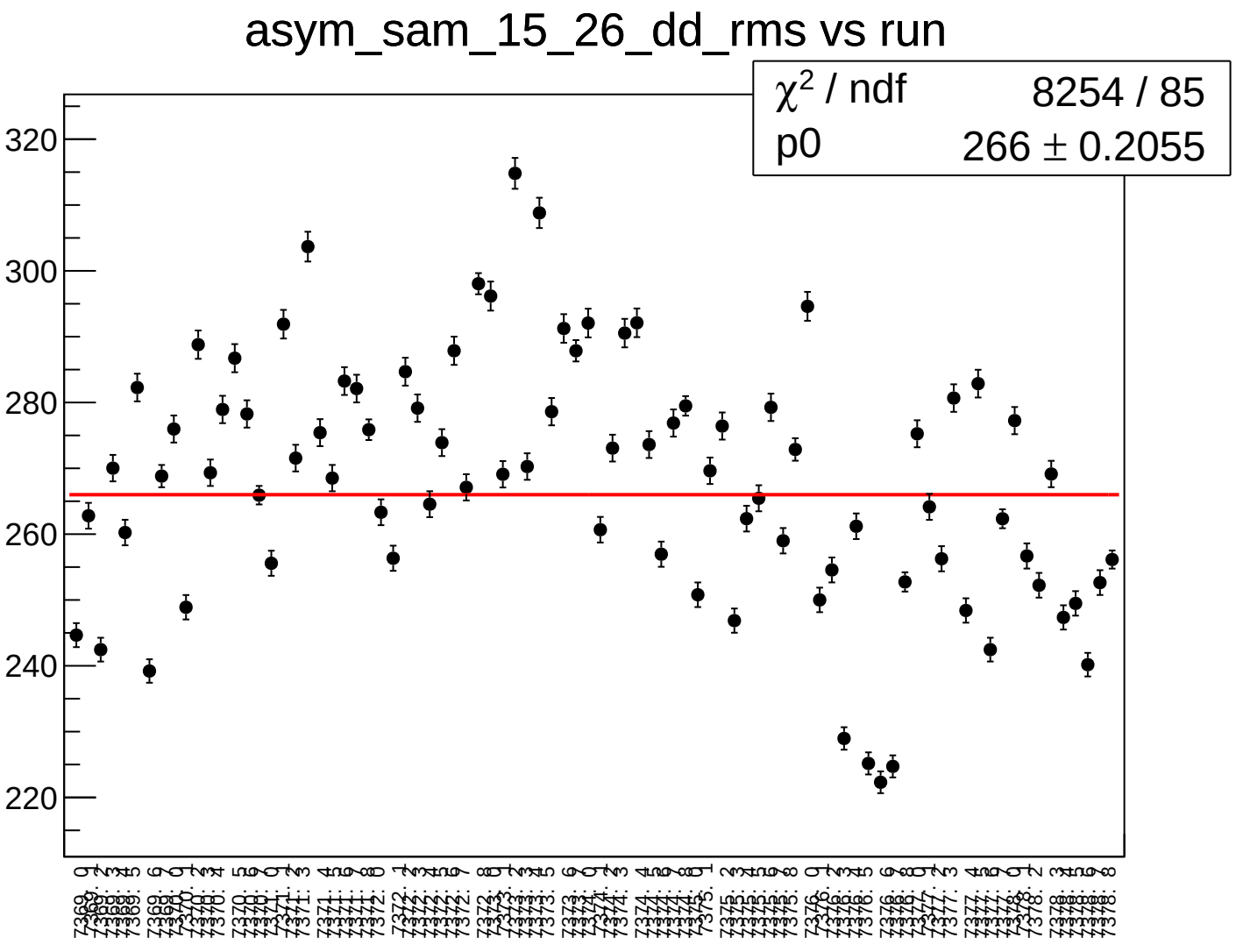

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.1 / 85
p0 −73.01 ± 296.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 520.5
Std Dev 0
2
1
0
−1
−2

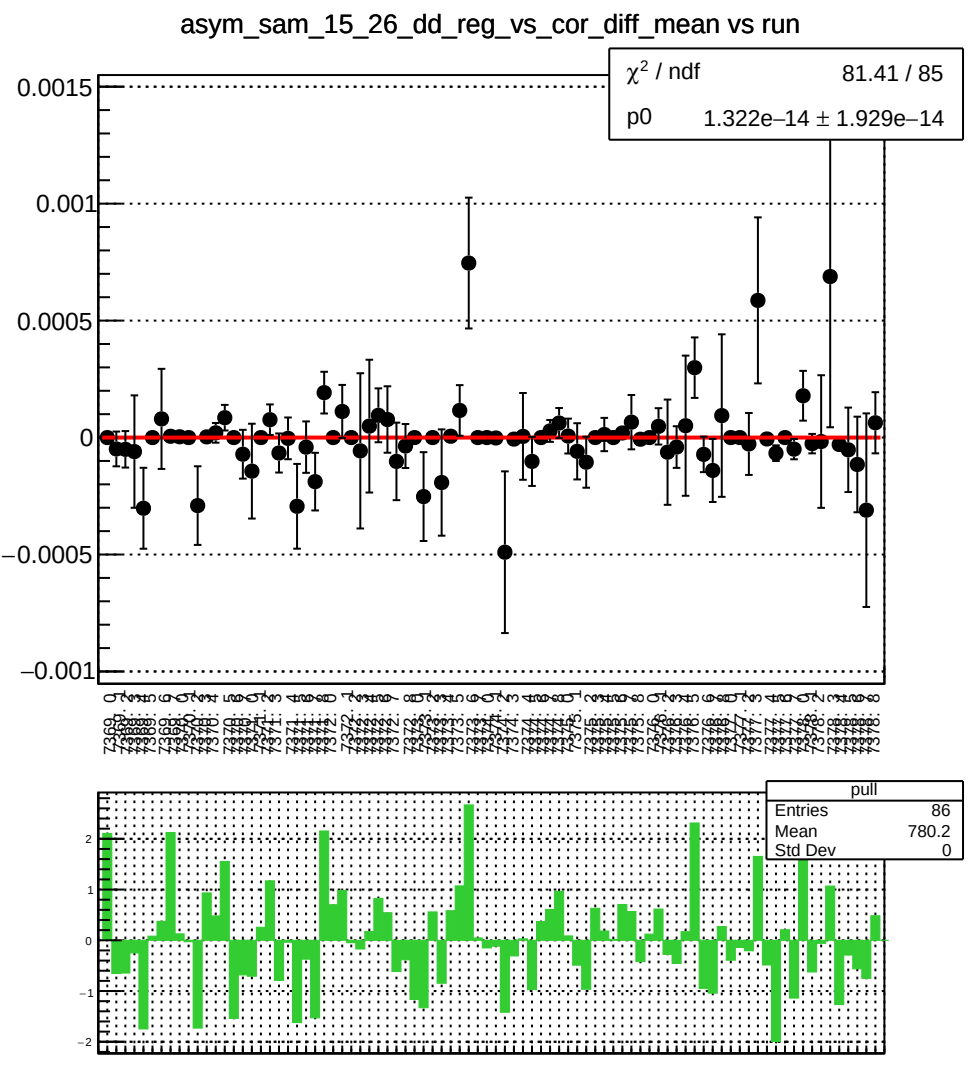

pull1D
Entries 86
Mean 0.002788
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

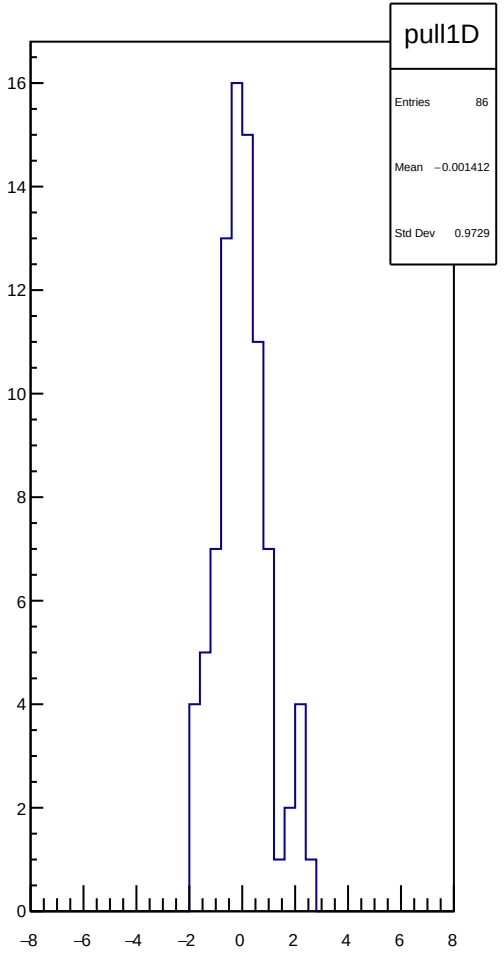

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 5080 / 85
p0 271.9 ± 0.2098
310
300
290
280
270
260
250
240

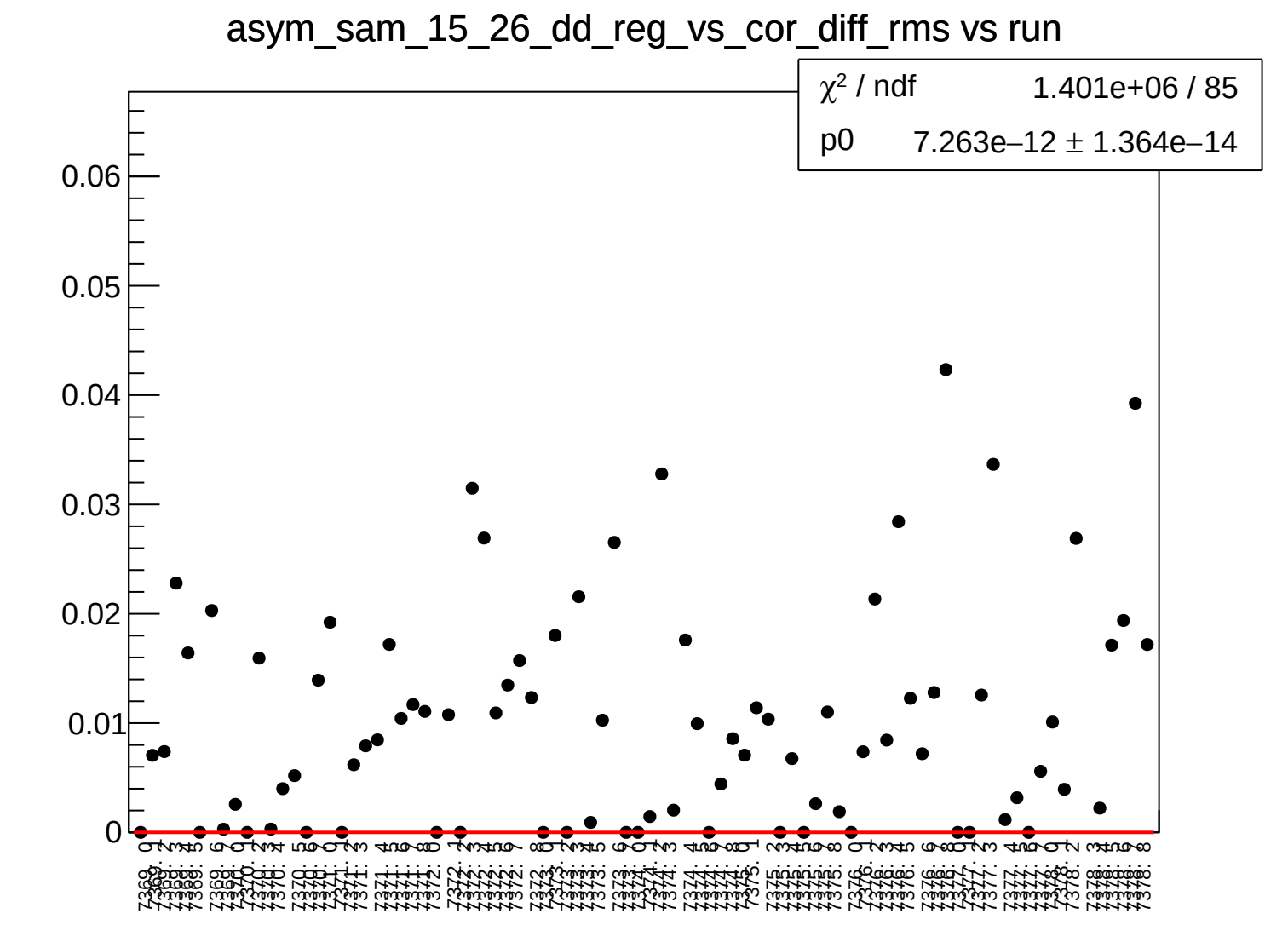

asym_sam_15_26_dd_mean vs run
χ^2 / ndf 89.32 / 85
p0 180.1 ± 290.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 140.1
Std Dev 0
2
1
0
−1
−2

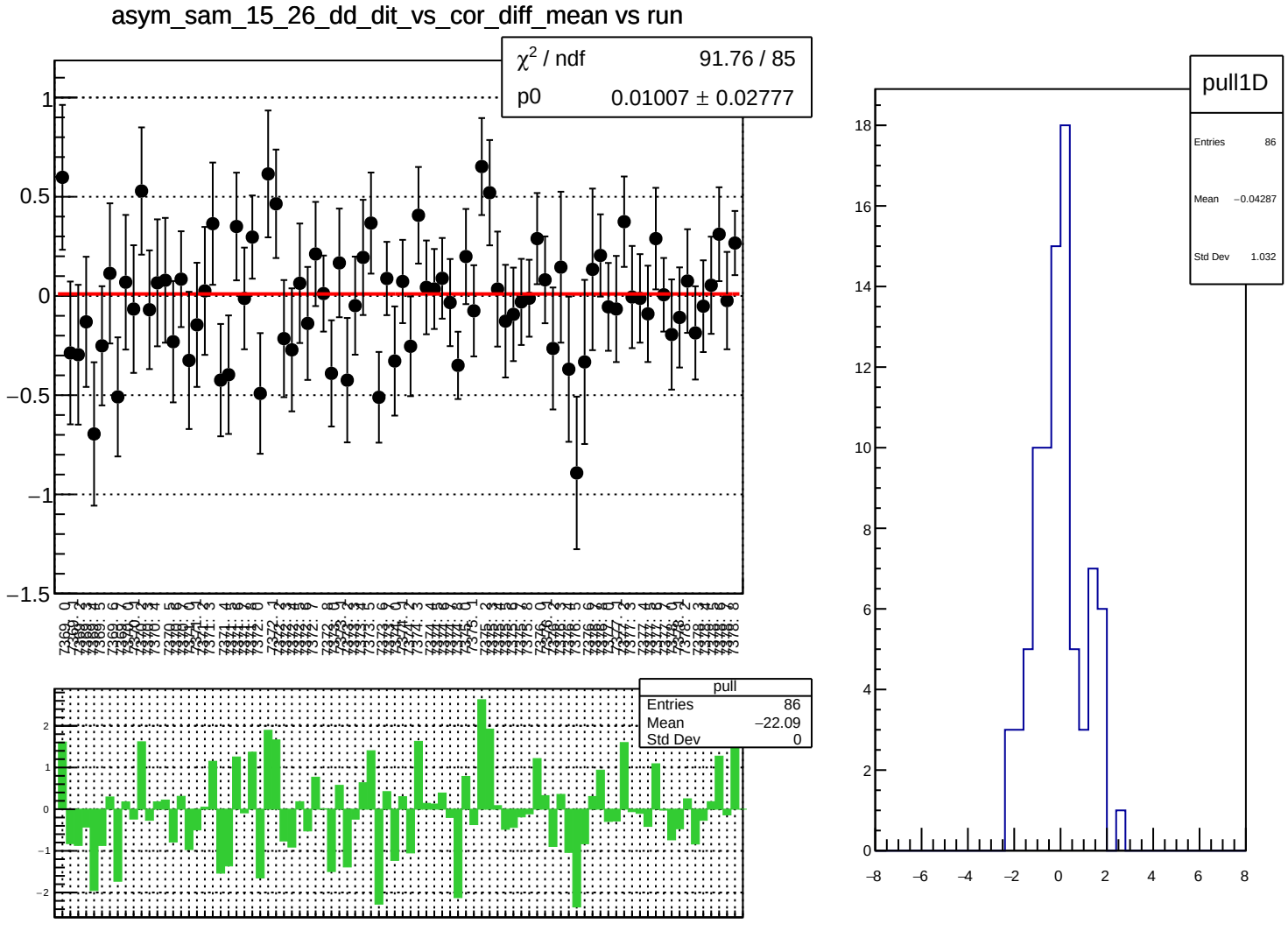

pull1D
Entries 86
Mean −0.0133
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

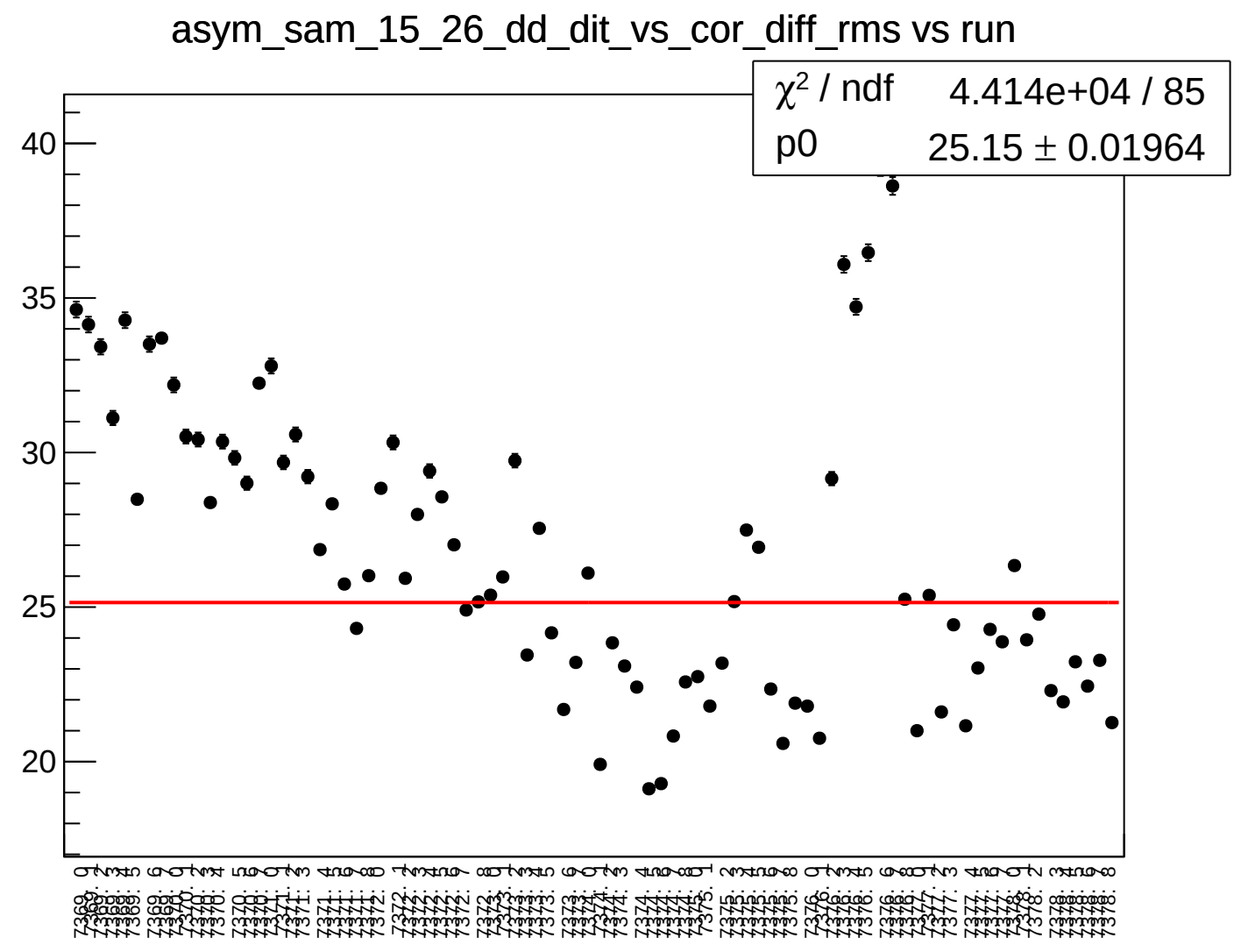

asym_sam_15_26_dd_rms vs run
χ² / ndf 8254 / 85
p0 266 ± 0.2055
320
300
280
260
240
220

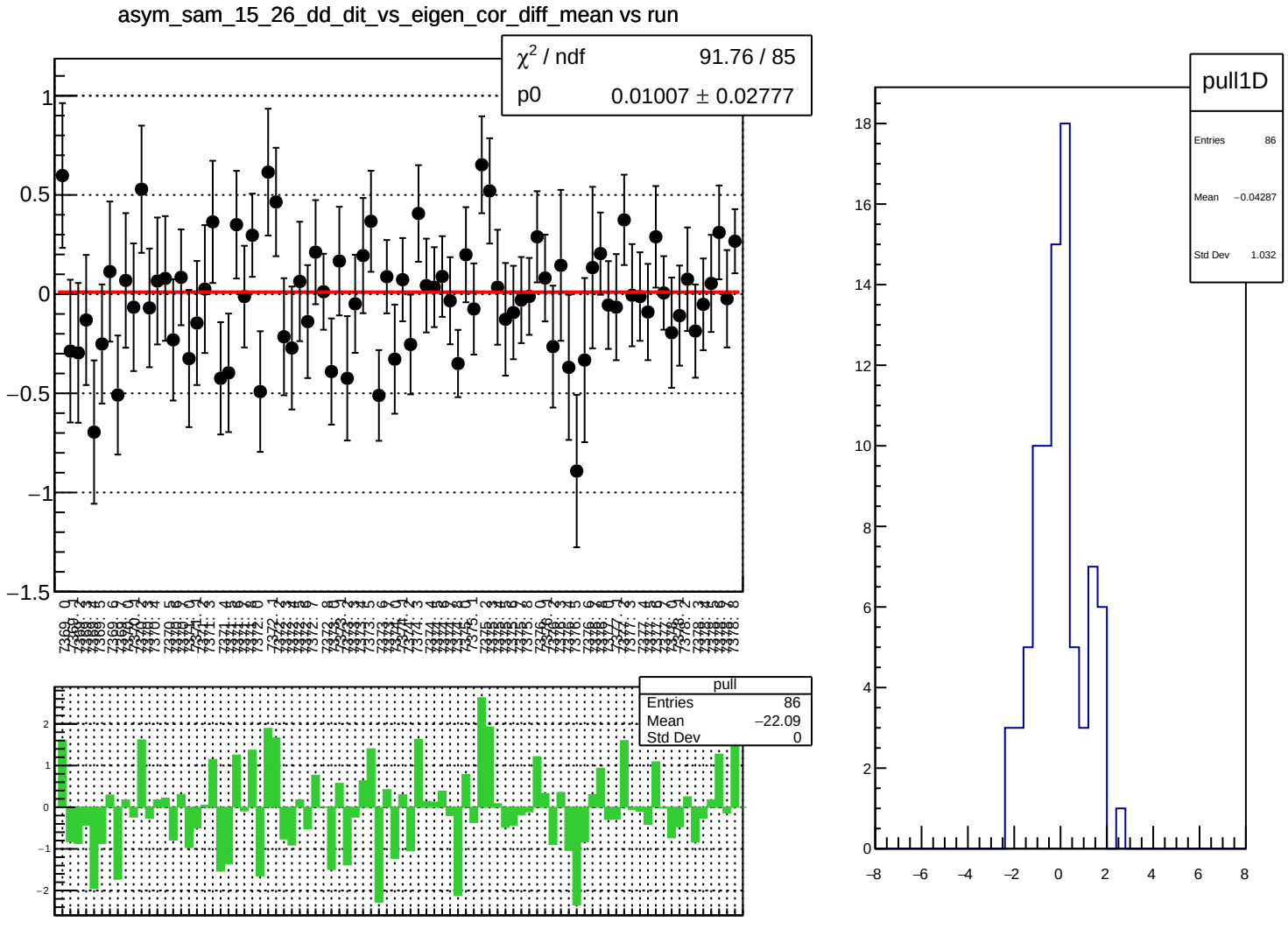

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.41 / 85
p0 1.322e−14 ± 1.929e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 780.2
Std Dev 0
2
1
0
−1
−2

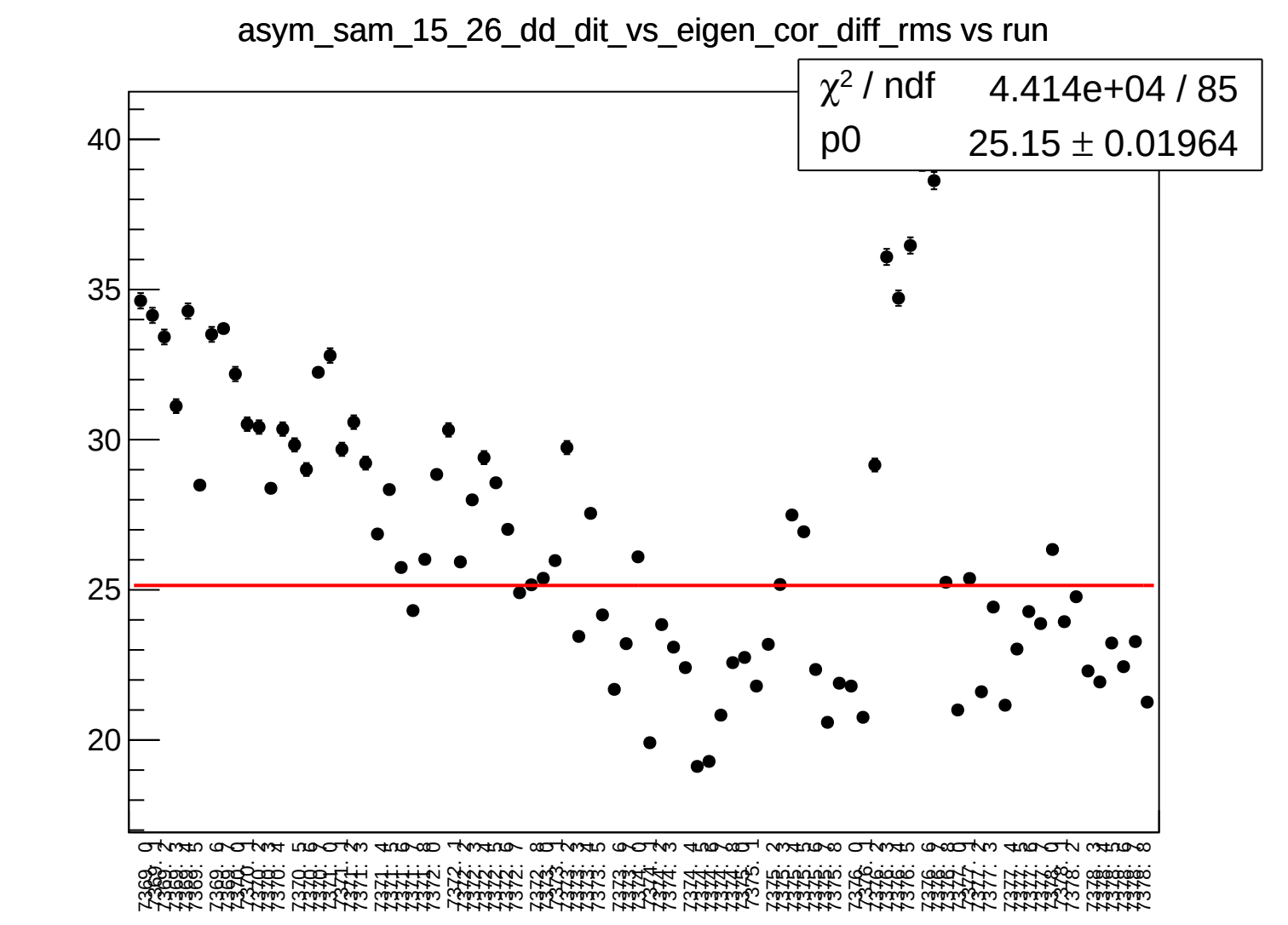

pull1D
Entries 86
Mean −0.001412
Std Dev 0.9729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

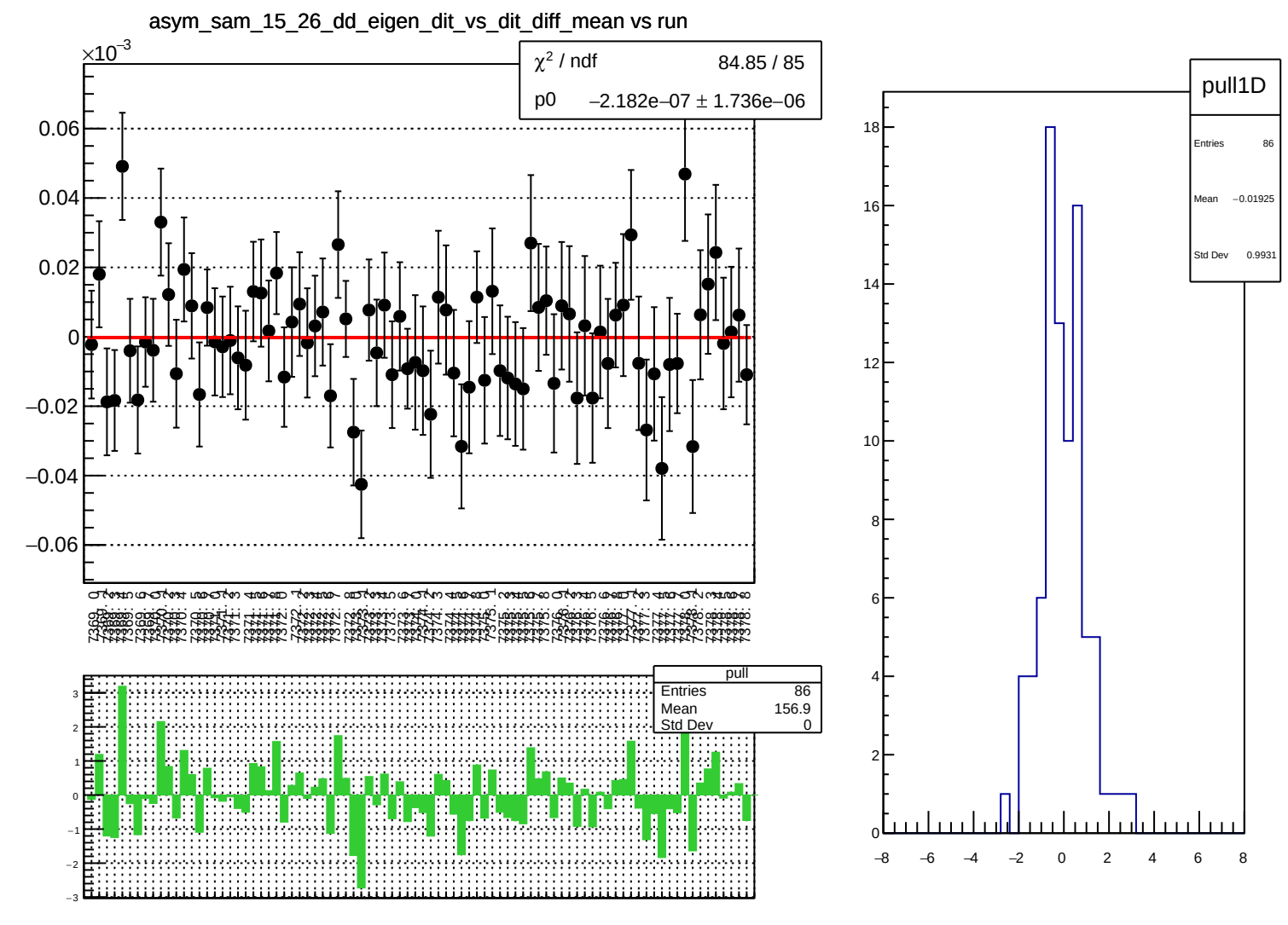

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.401e+06 / 85
p0 7.263e−12 ± 1.364e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

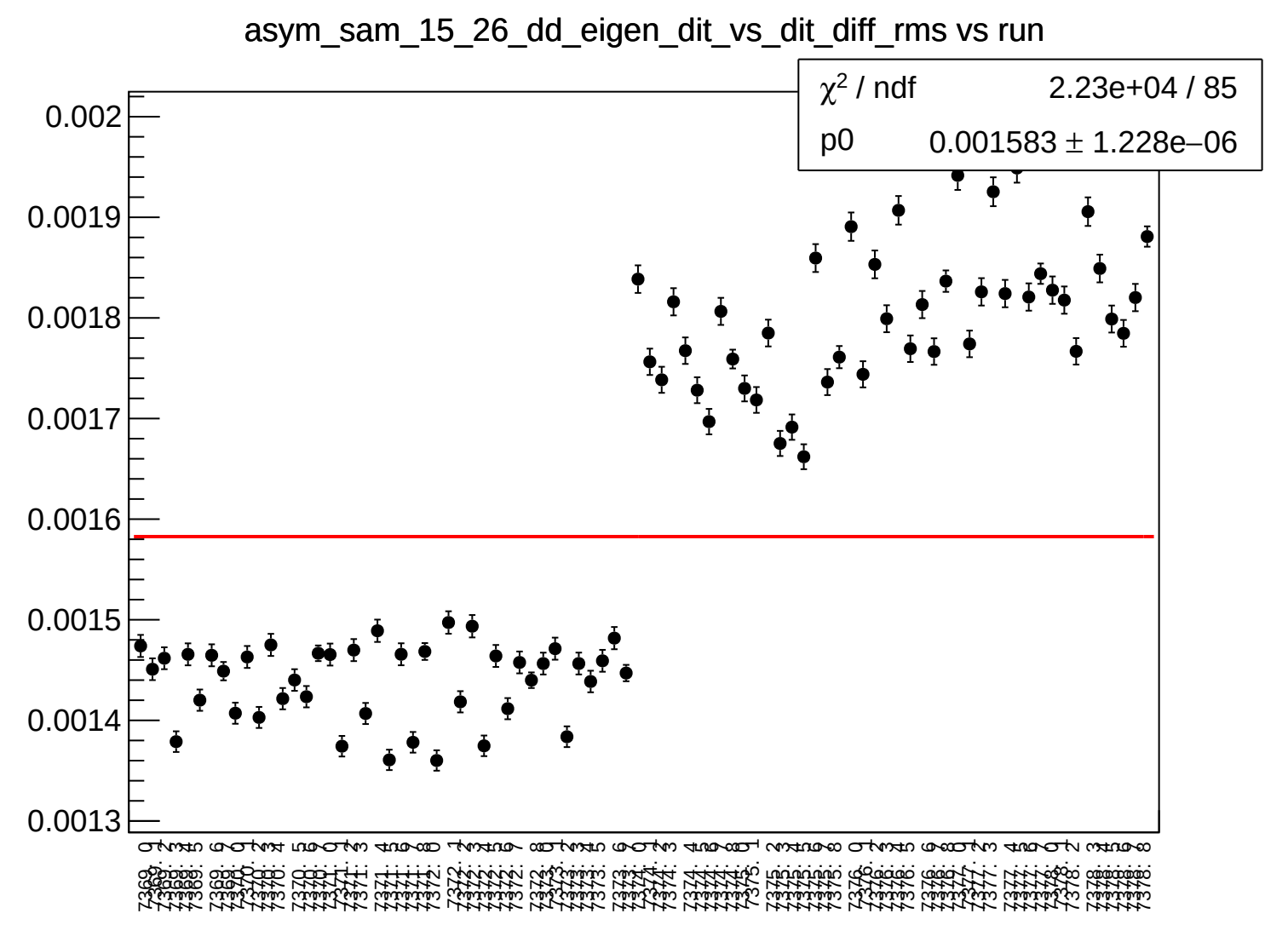

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.76 / 85
p0 0.01007 ± 0.02777
pull
Entries 86
Mean −22.09
Std Dev 0
pull1D
Entries 86
Mean −0.04287
Std Dev 1.032

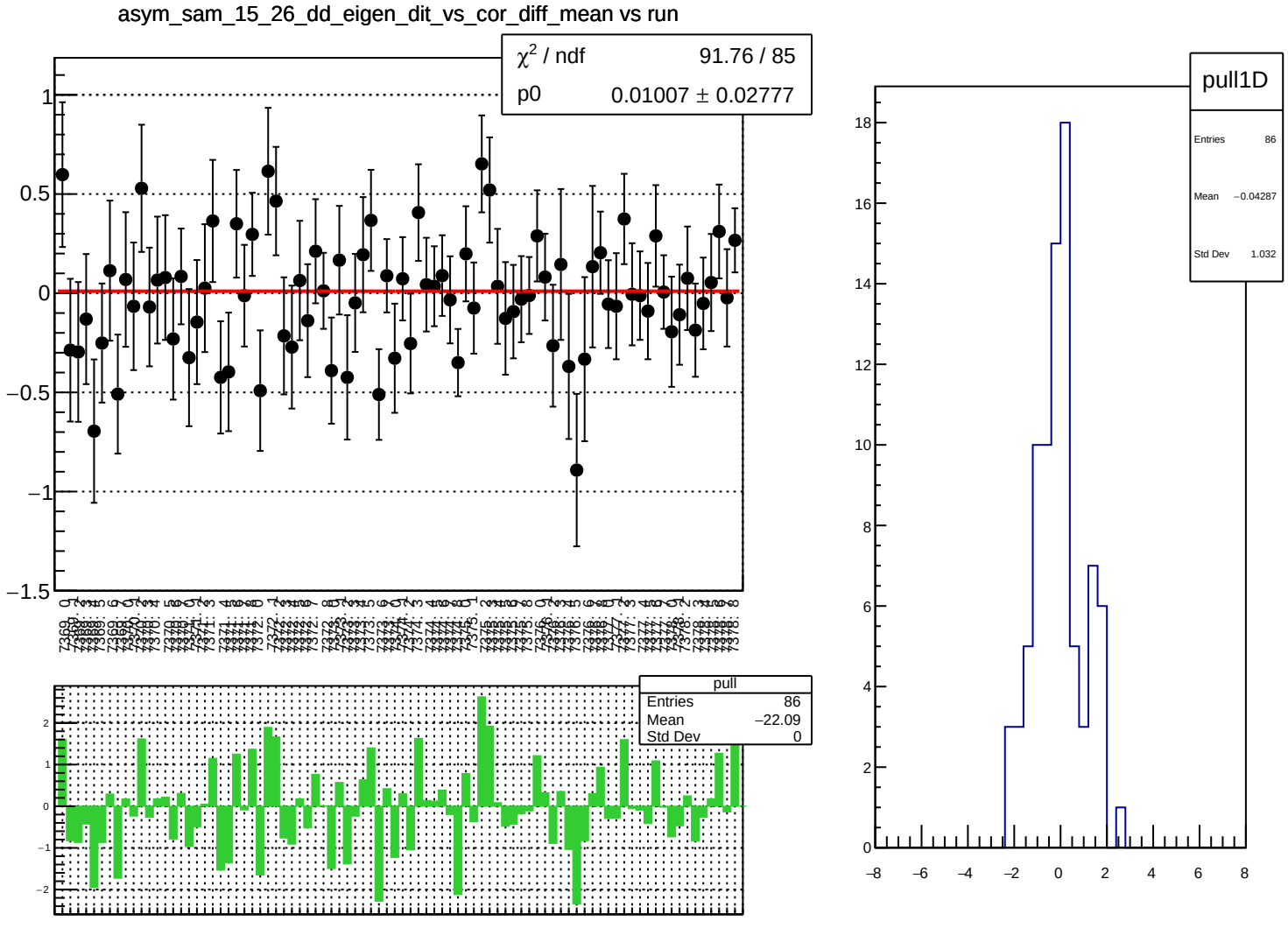

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.414e+04 / 85
p0 25.15 ± 0.01964
40
35
30
25
20

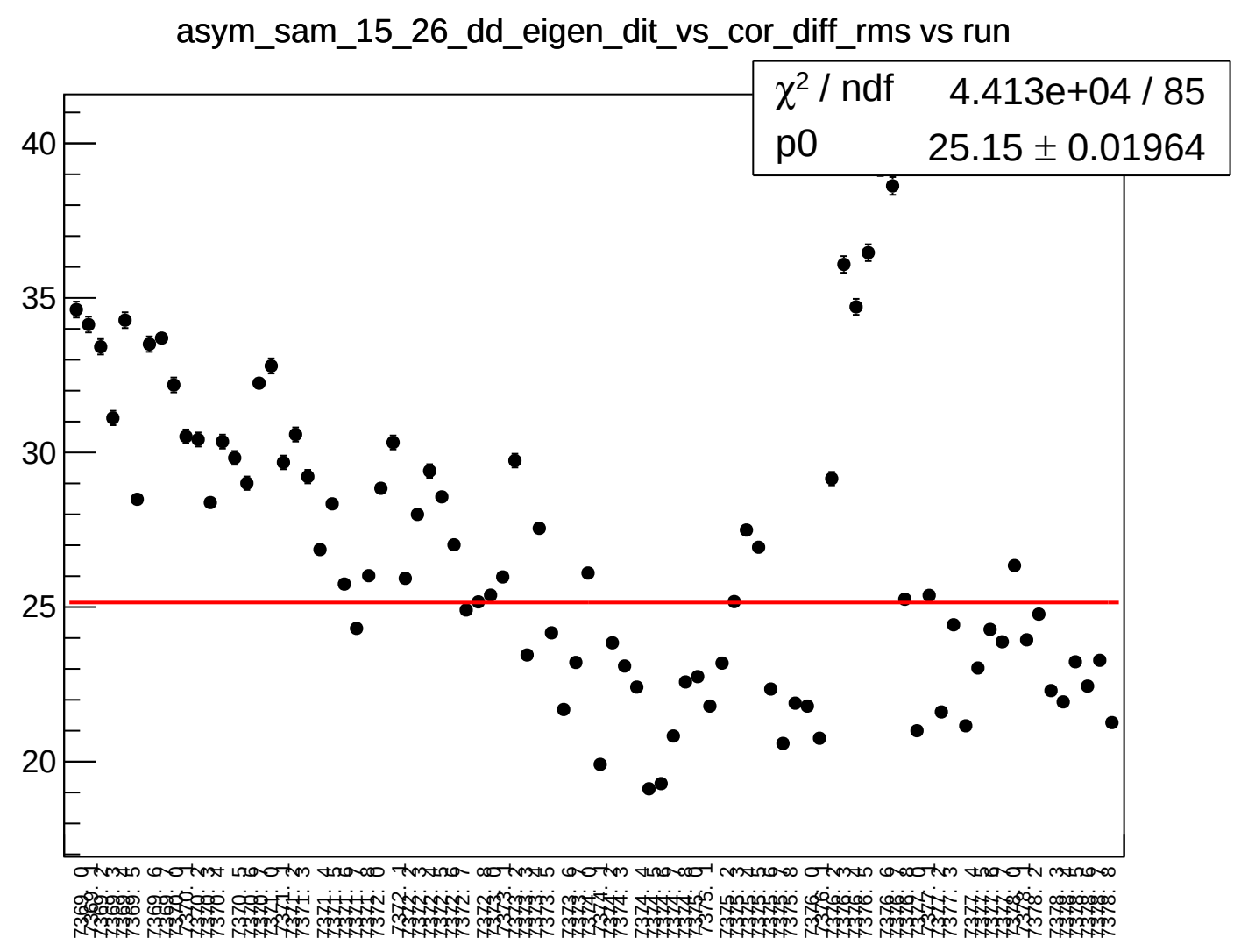

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.76 / 85
p0 0.01007 ± 0.02777
pull
Entries 86
Mean −22.09
Std Dev 0
pull1D
Entries 86
Mean −0.04287
Std Dev 1.032

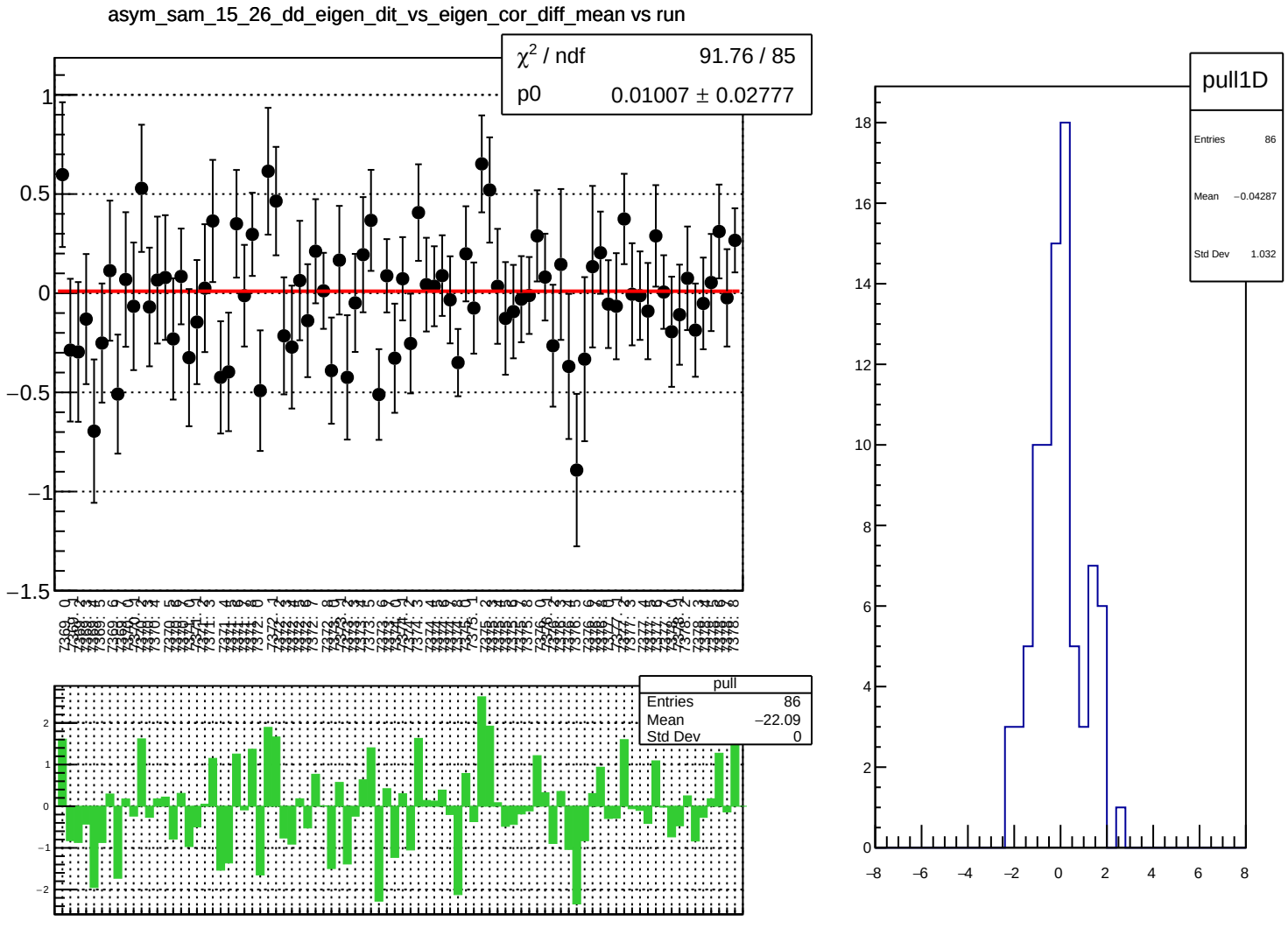

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.414e+04 / 85
p0 25.15 ± 0.01964
40
35
30
25
20

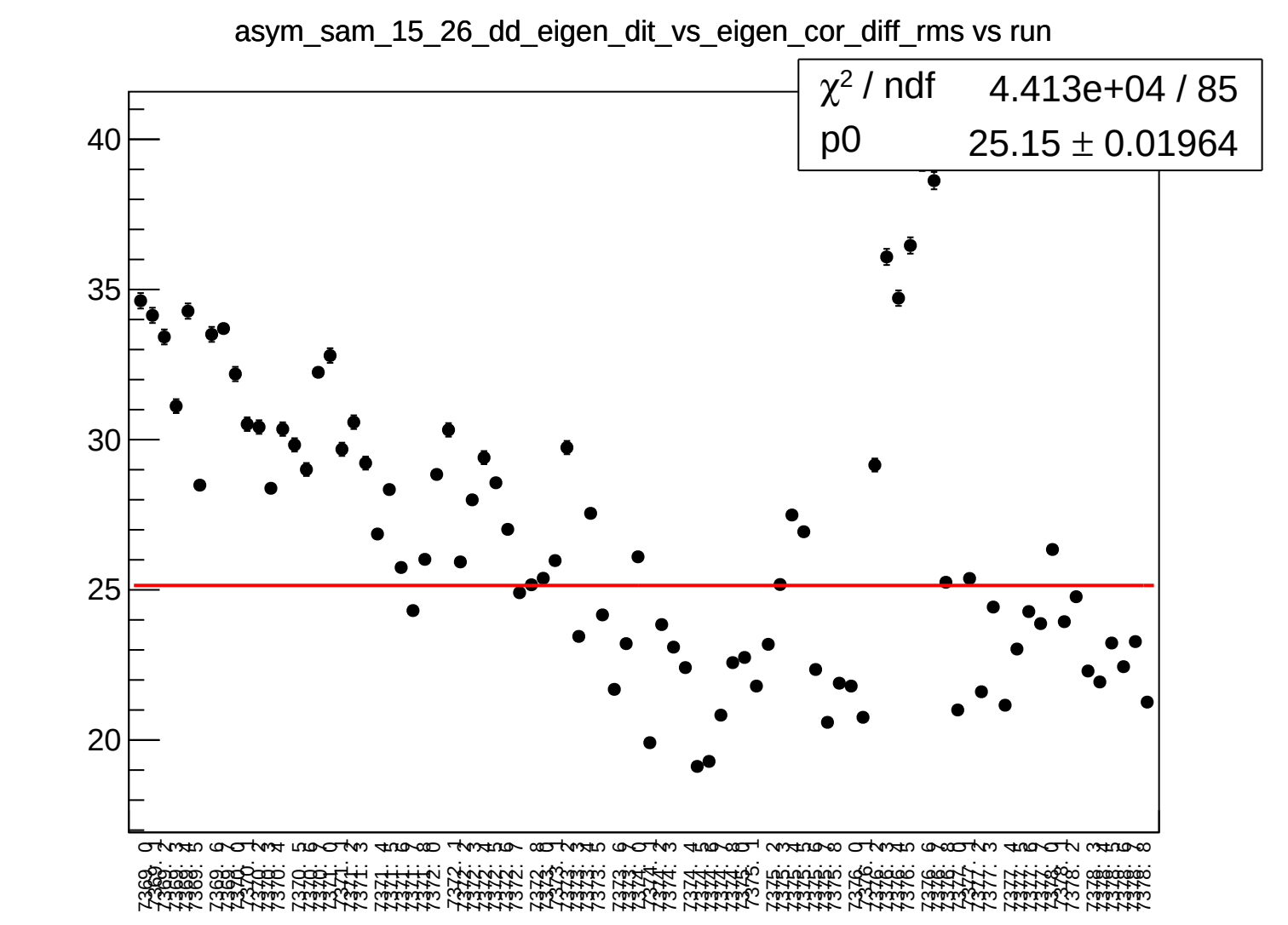

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.85 / 85
p0 −2.182e−07 ± 1.736e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 156.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01925
Std Dev 0.9931
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

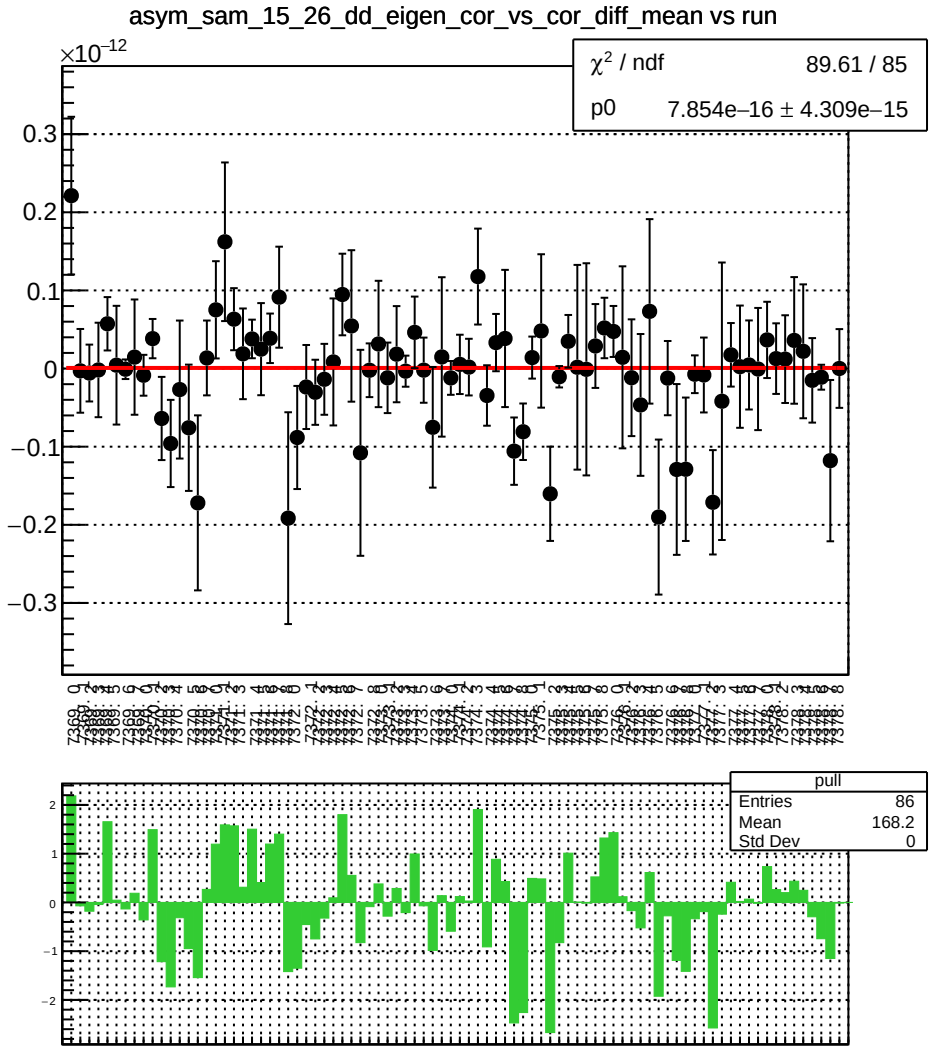

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.23e+04 / 85
p0 0.001583 ± 1.228e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

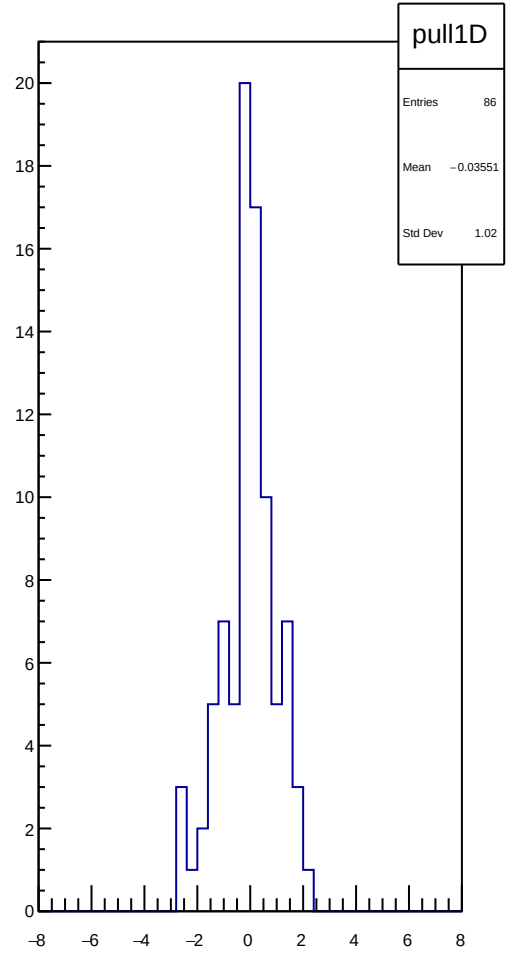

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.76 / 85
p0 0.01007 ± 0.02777
pull
Entries 86
Mean −22.09
Std Dev 0
pull1D
Entries 86
Mean −0.04287
Std Dev 1.032

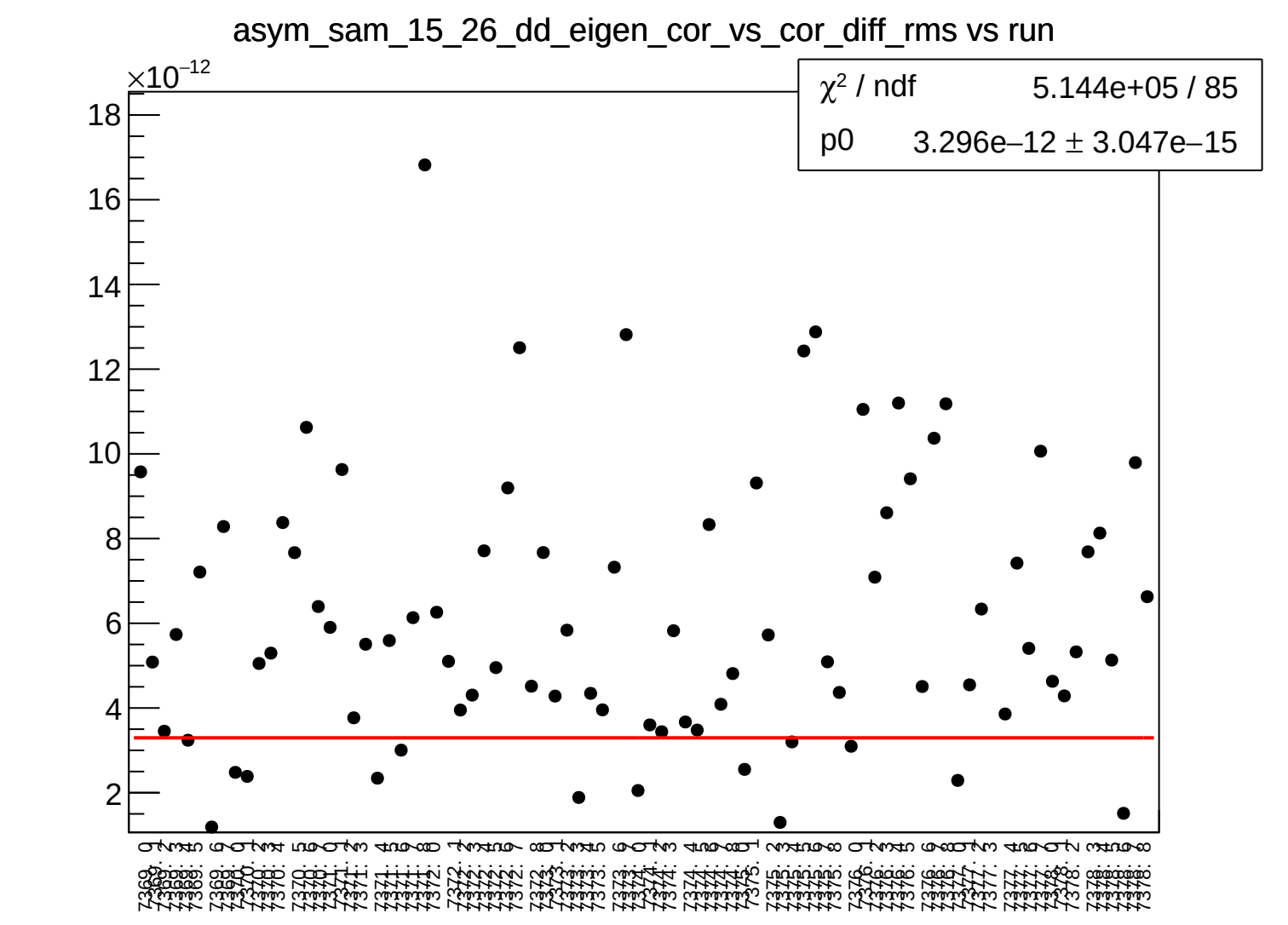

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.413e+04 / 85
p0 25.15 ± 0.01964
40
35
30
25
20

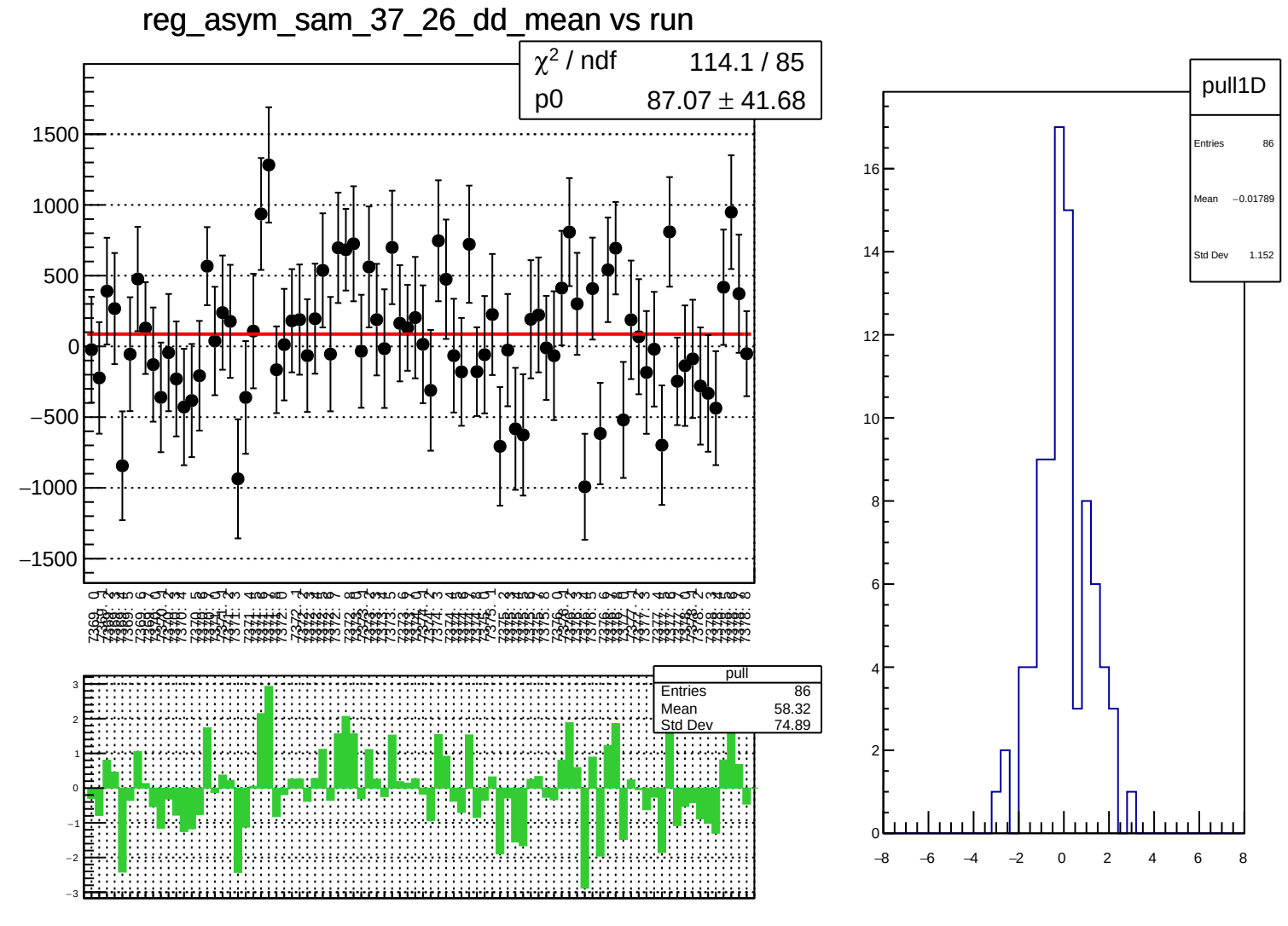

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.76 / 85
p0 0.01007 ± 0.02777
pull
Entries 86
Mean −22.09
Std Dev 0
pull1D
Entries 86
Mean −0.04287
Std Dev 1.032

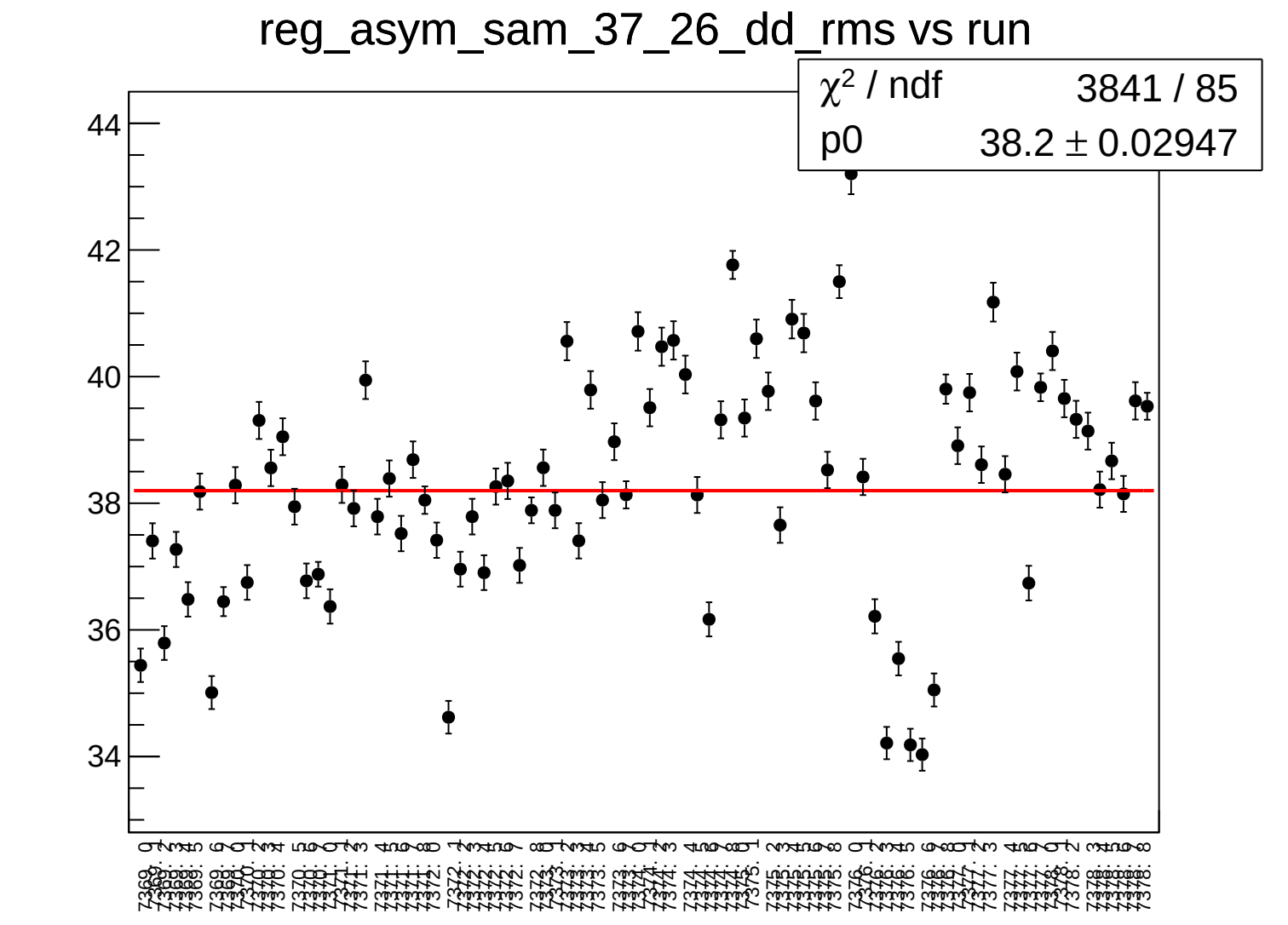

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.413e+04 / 85
p0 25.15 ± 0.01964
40
35
30
25
20

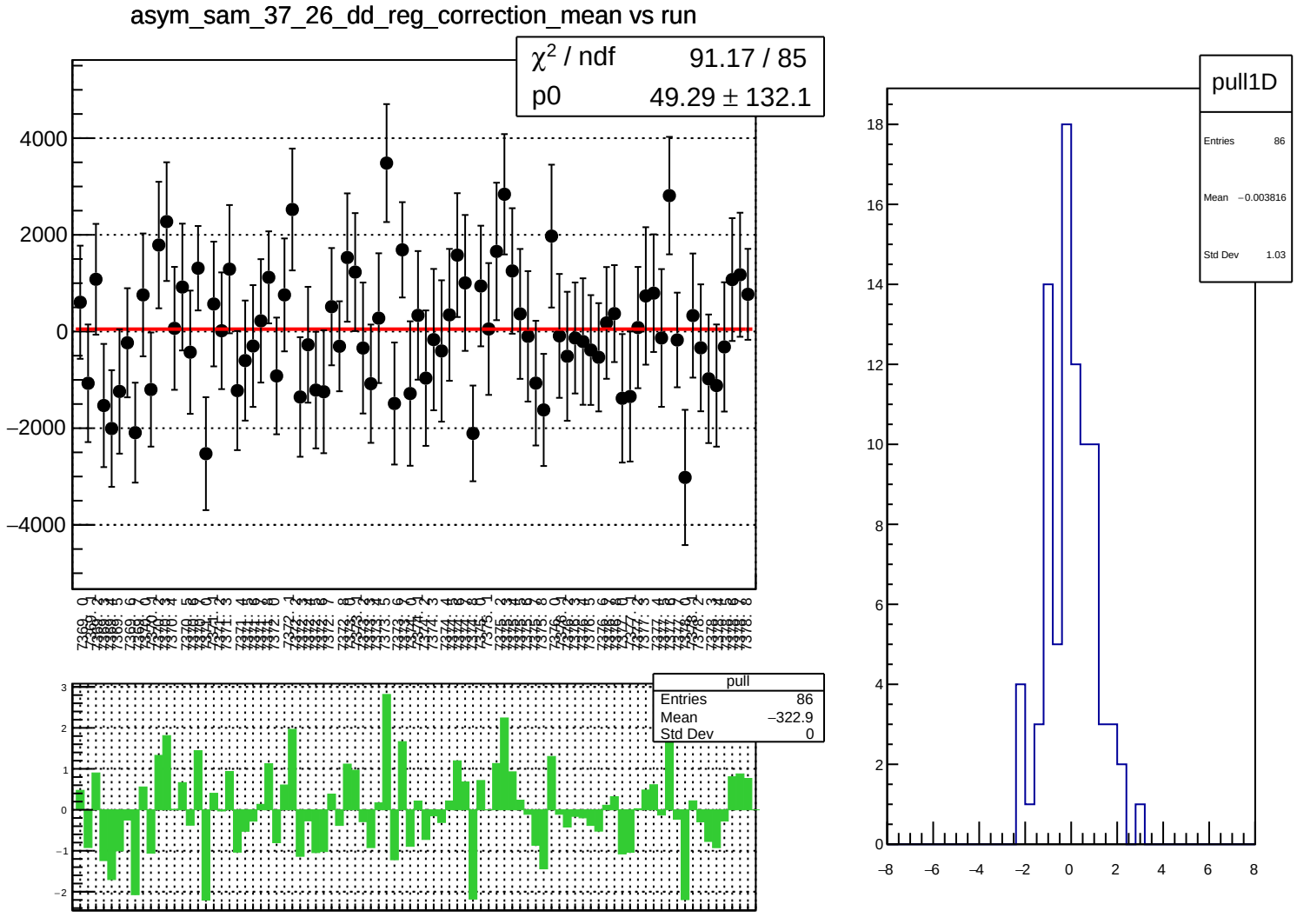

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.61 / 85
p0 7.854e−16 ± 4.309e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 86
Mean 168.2
Std Dev 0
2
1
0
−1
−2

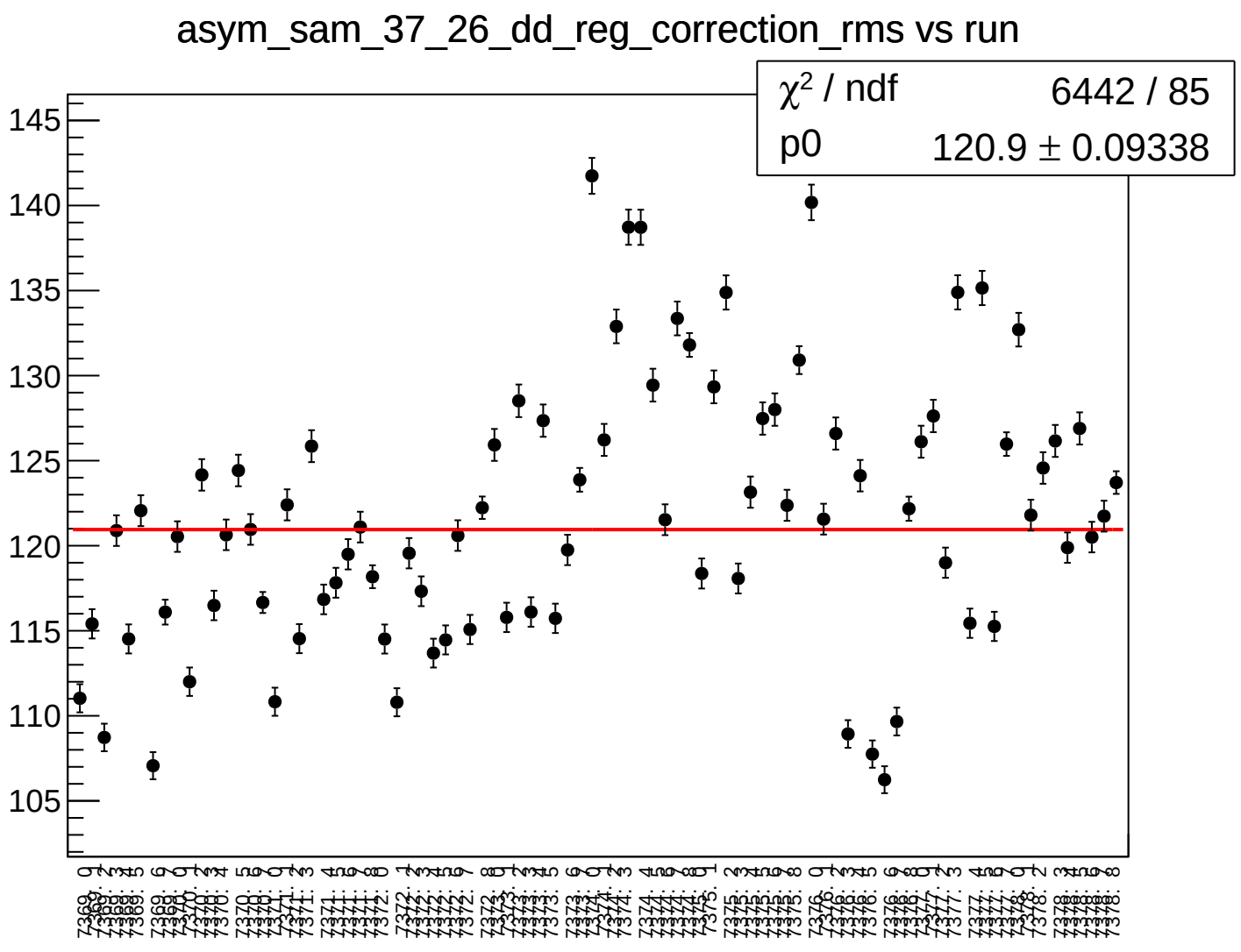

pull1D
Entries 86
Mean −0.03551
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

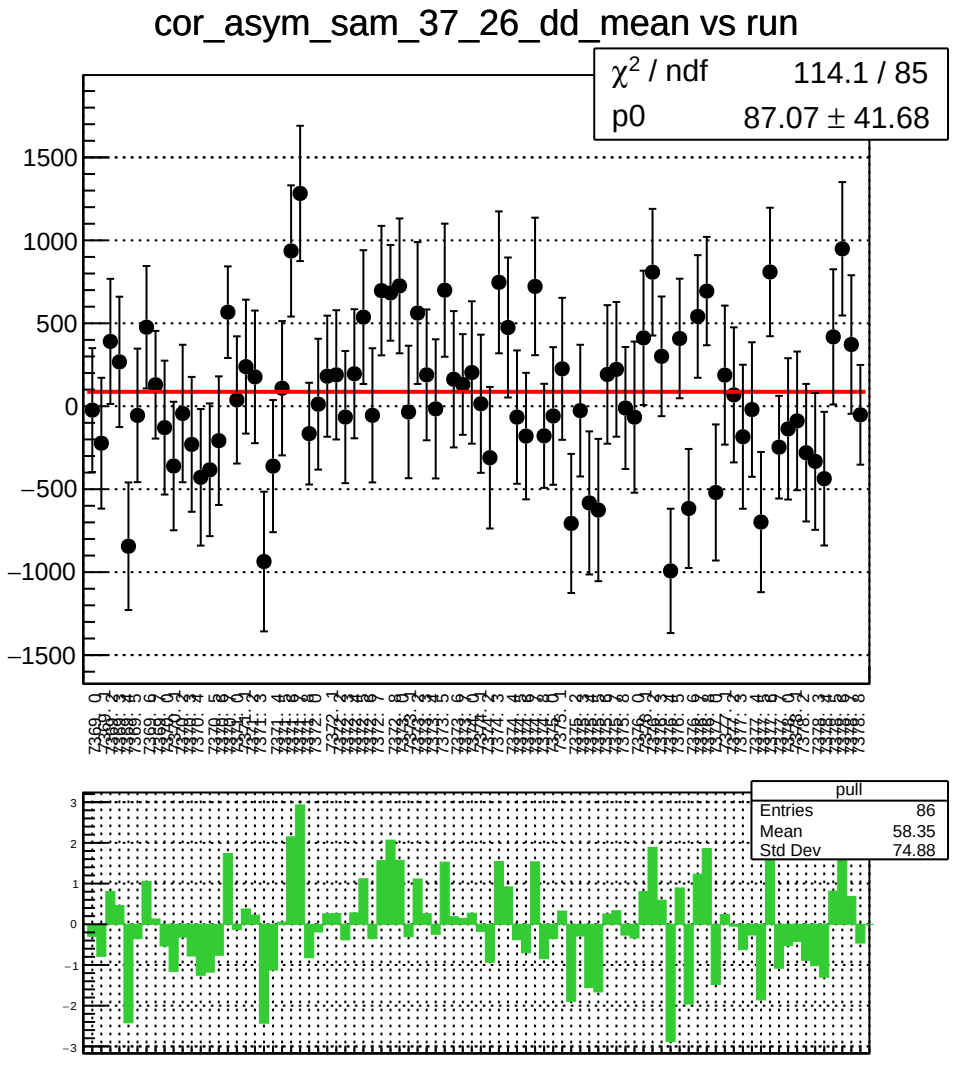

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.144e+05 / 85
p0 3.296e−12 ± 3.047e−15
18
16
14
12
10
8
6
4
2

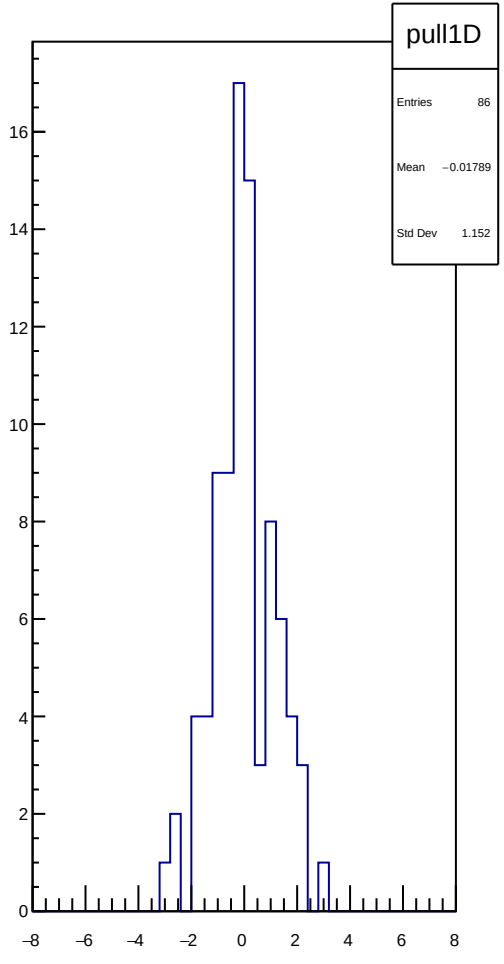

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 114.1 / 85
p0 87.07 ± 41.68
1500
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean 58.32
Std Dev 74.89
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01789
Std Dev 1.152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

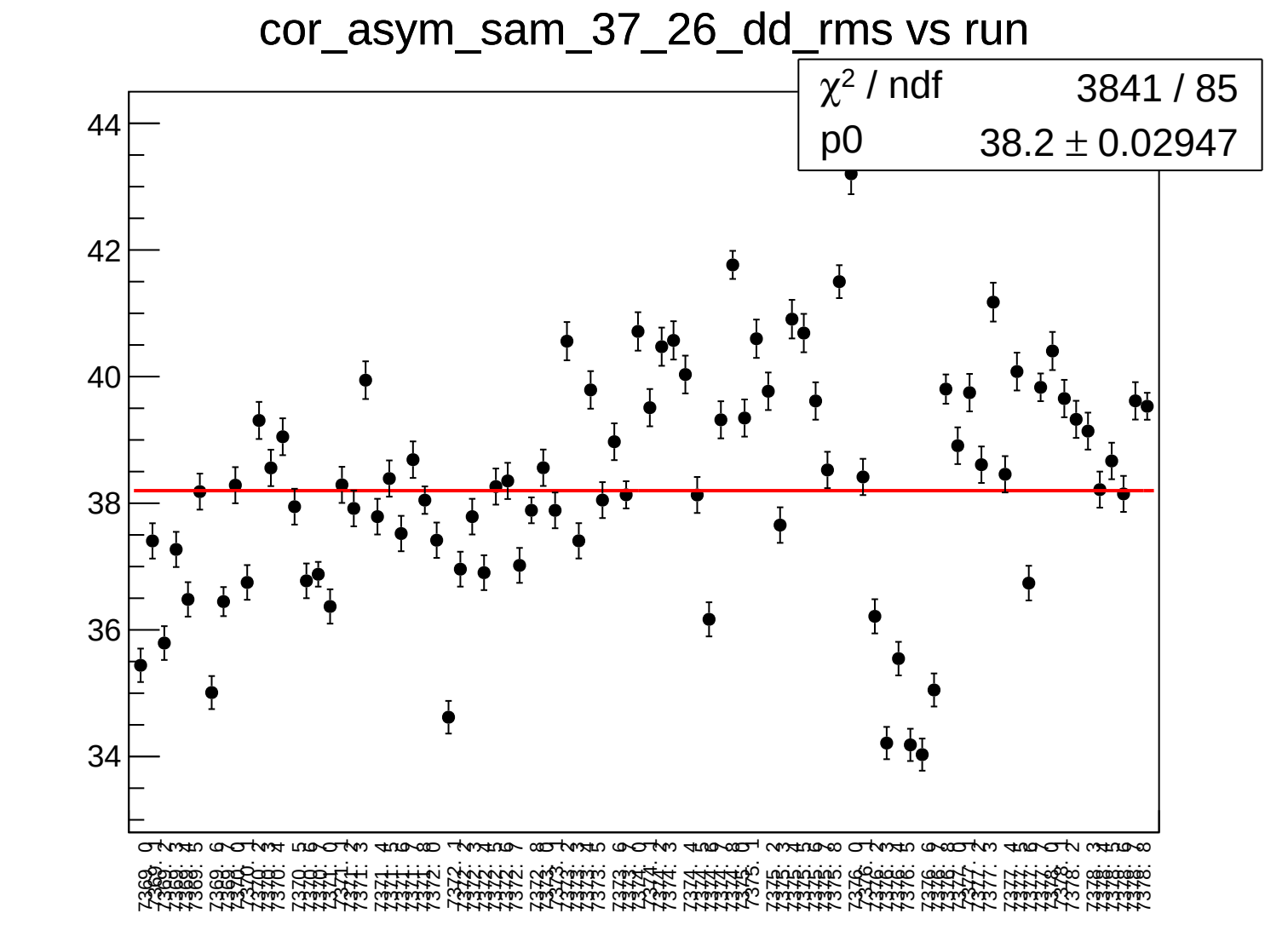

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 3841 / 85
p0 38.2 ± 0.02947
44
42
40
38
36
34

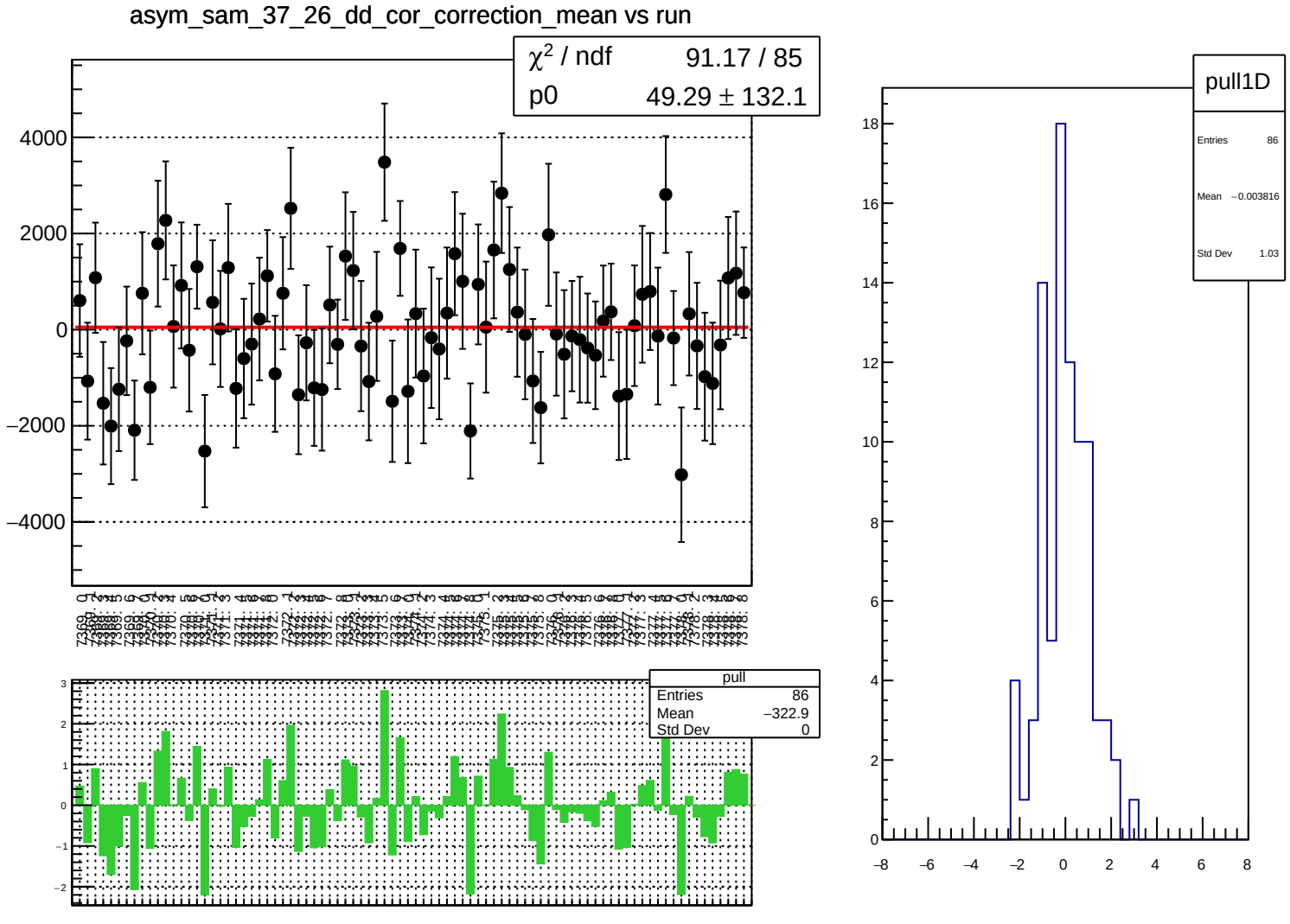

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 91.17 / 85
p0 49.29 ± 132.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −322.9
Std Dev 0
pull1D
Entries 86
Mean −0.003816
Std Dev 1.03

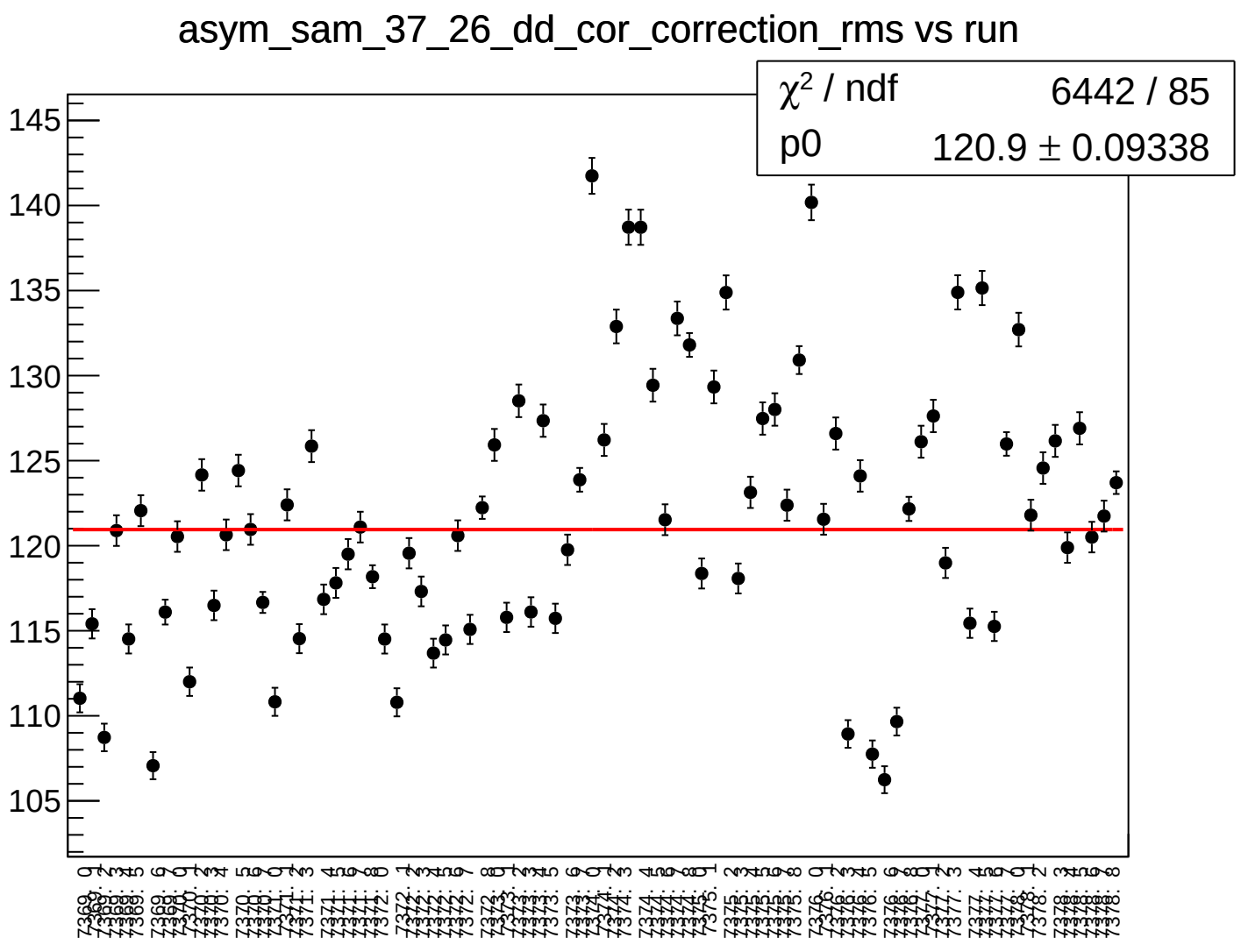

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 6442 / 85
p0 120.9 ± 0.09338
145
140
135
130
125
120
115
110
105

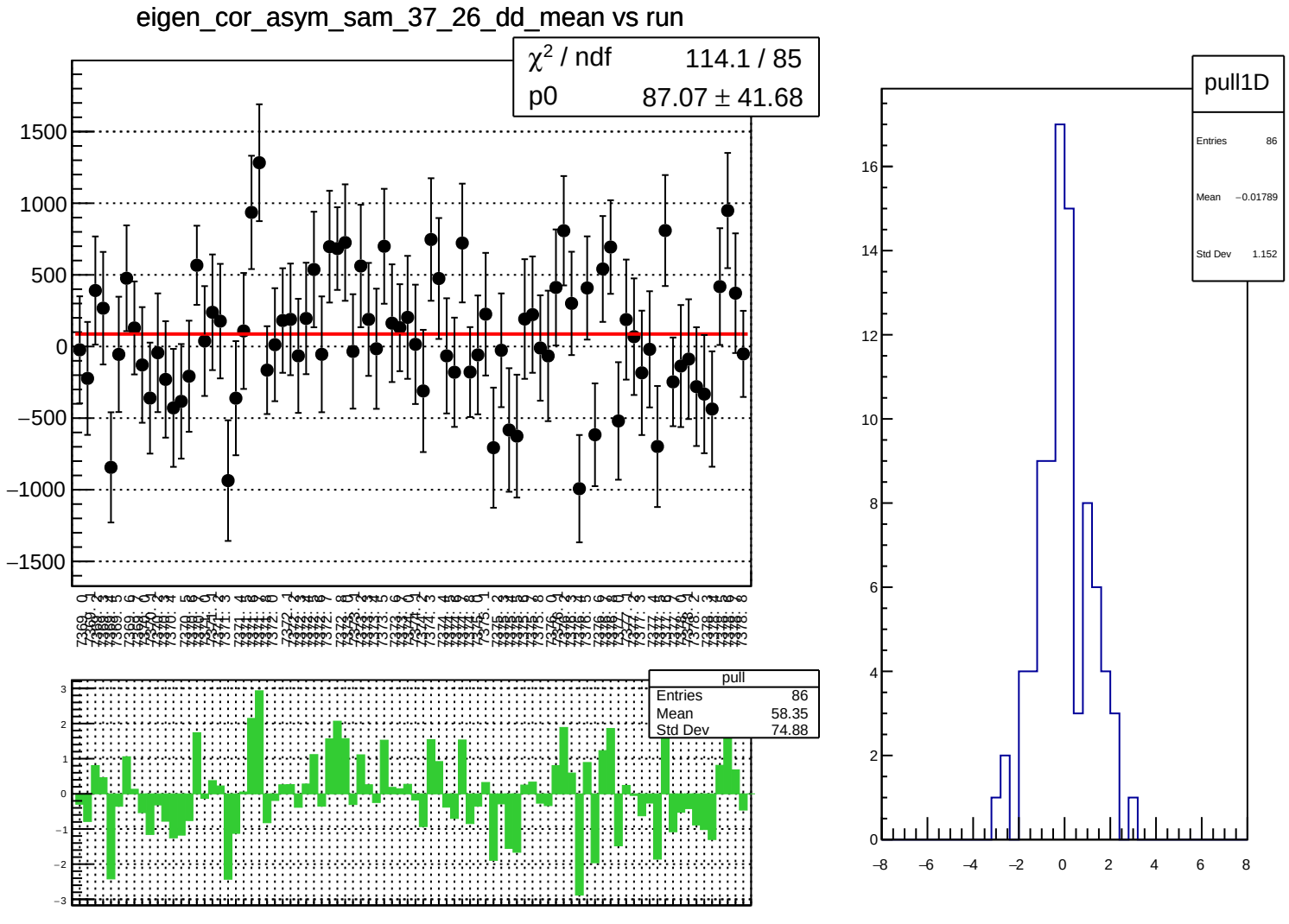

cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 114.1 / 85
p0 87.07 ± 41.68
pull
Entries 86
Mean 58.35
Std Dev 74.88

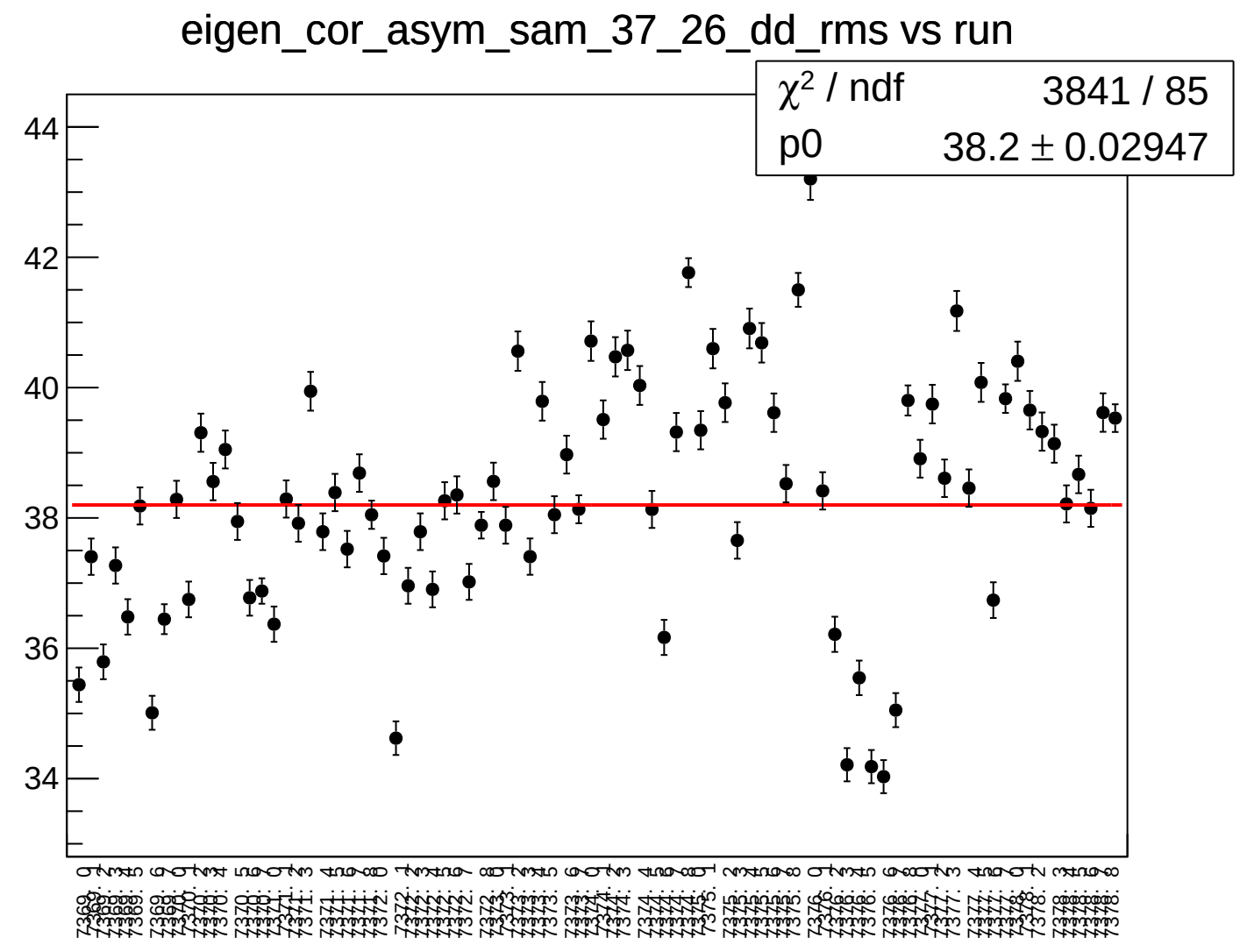

pull1D
Entries 86
Mean −0.01789
Std Dev 1.152

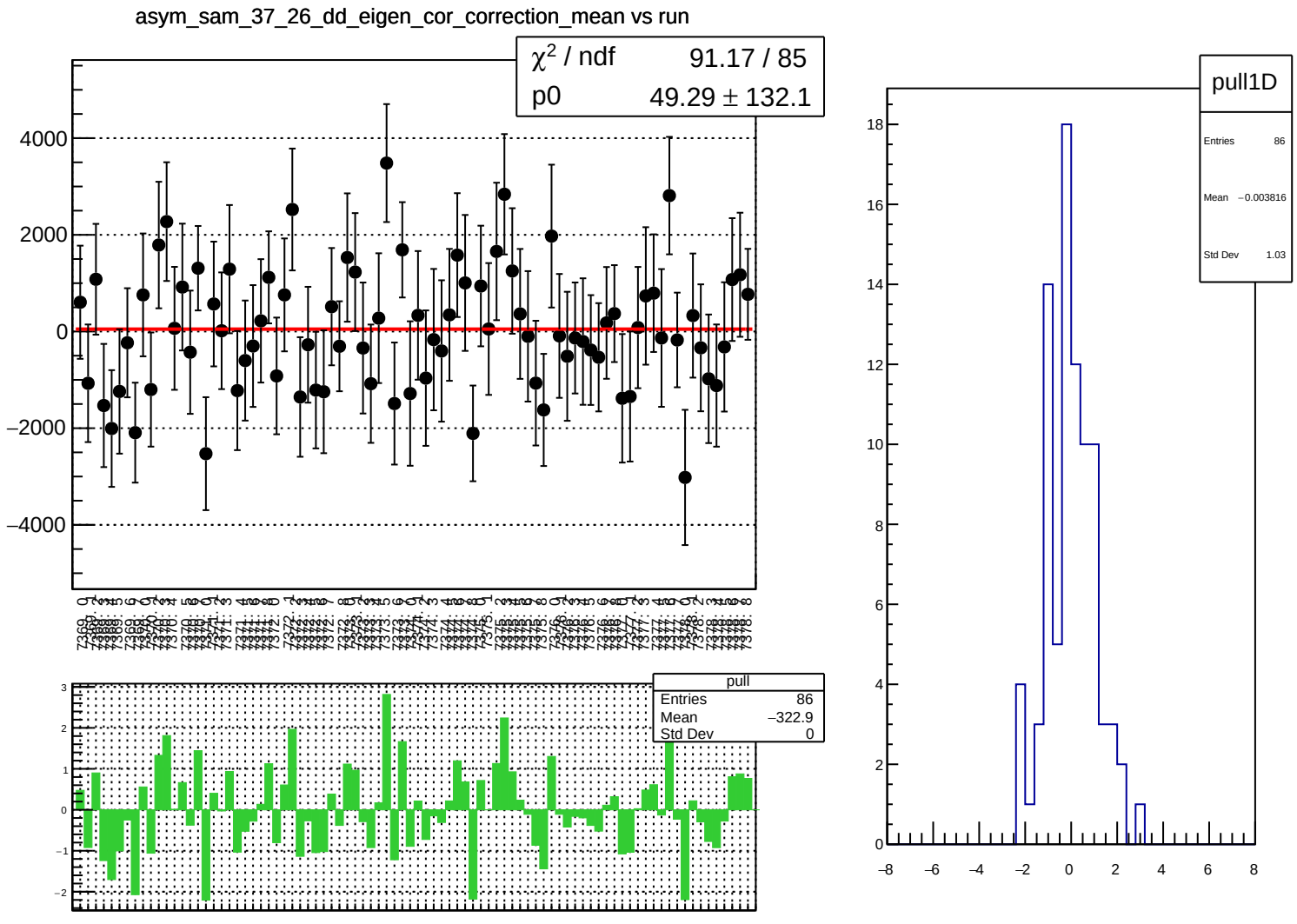

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3841 / 85
p0 38.2 ± 0.02947
44
42
40
38
36
34

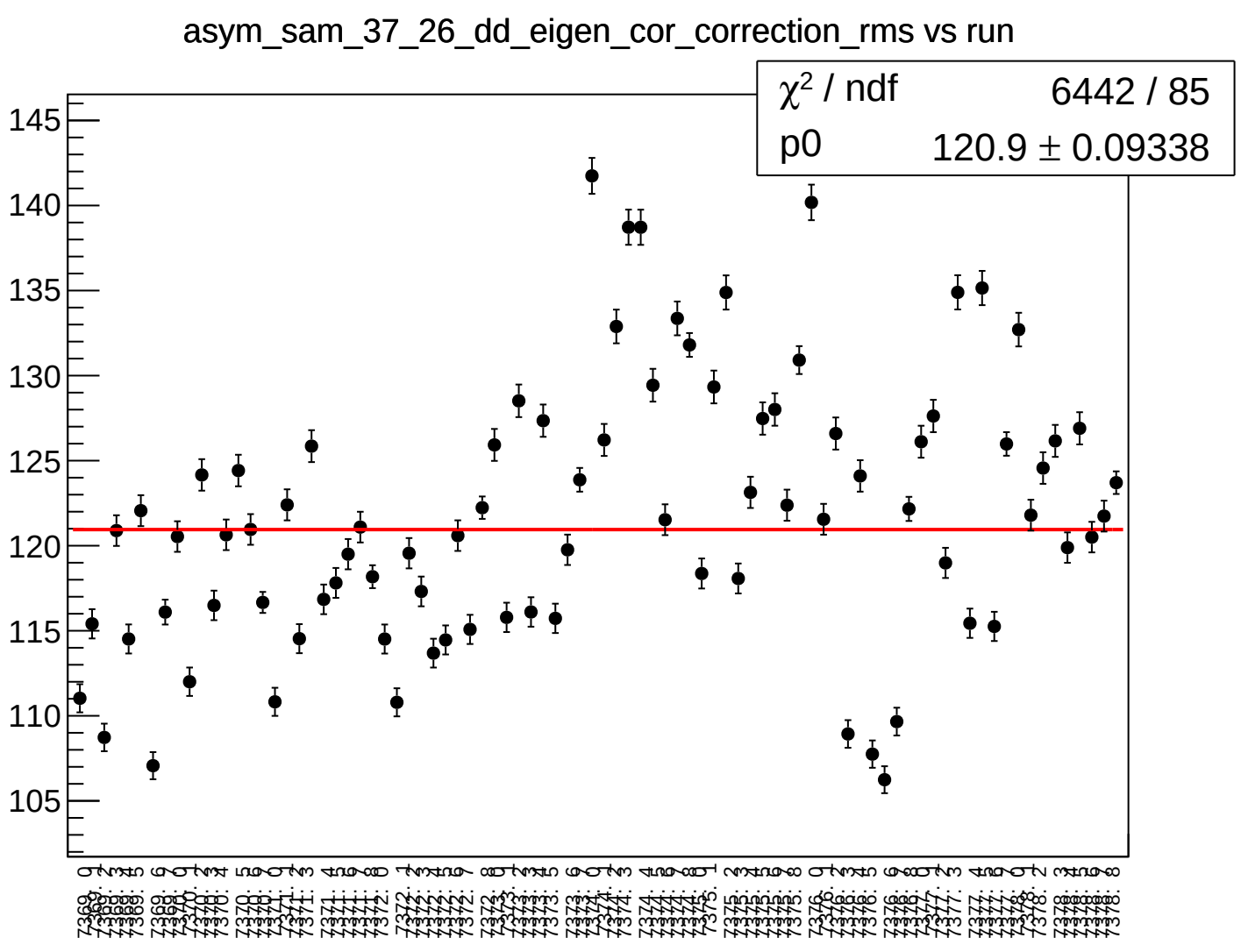

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 91.17 / 85
p0 49.29 ± 132.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −322.9
Std Dev 0
pull1D
Entries 86
Mean −0.003816
Std Dev 1.03

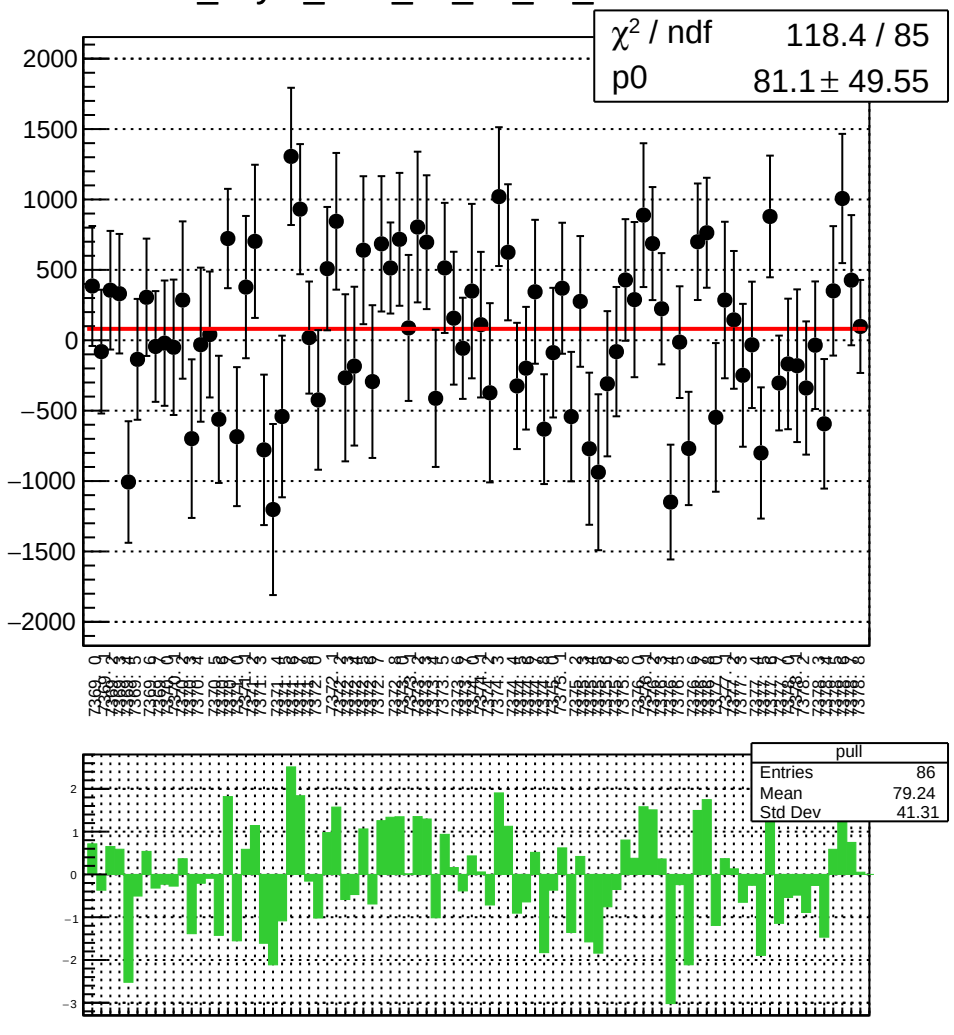

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 6442 / 85
p0 120.9 ± 0.09338
145
140
135
130
125
120
115
110
105

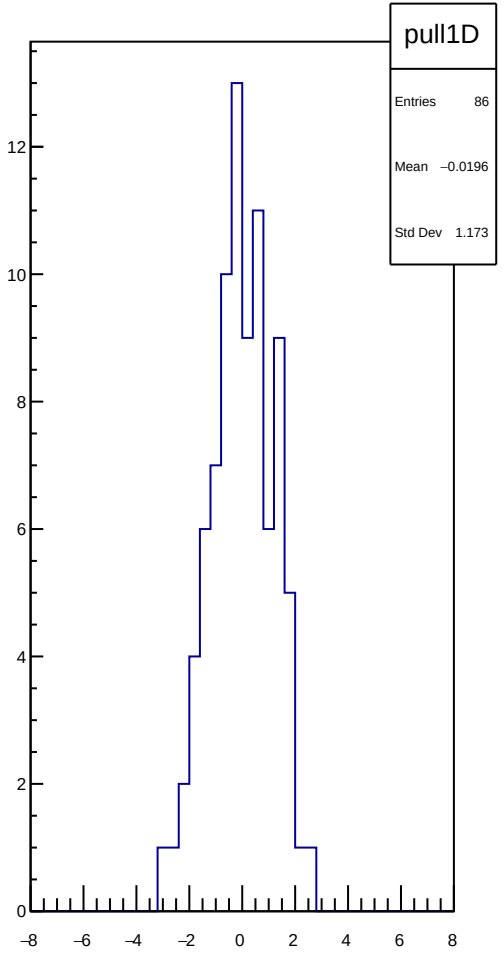

eigen_cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 114.1 / 85
p0 87.07 ± 41.68
pull
Entries 86
Mean 58.35
Std Dev 74.88
pull1D
Entries 86
Mean −0.01789
Std Dev 1.152

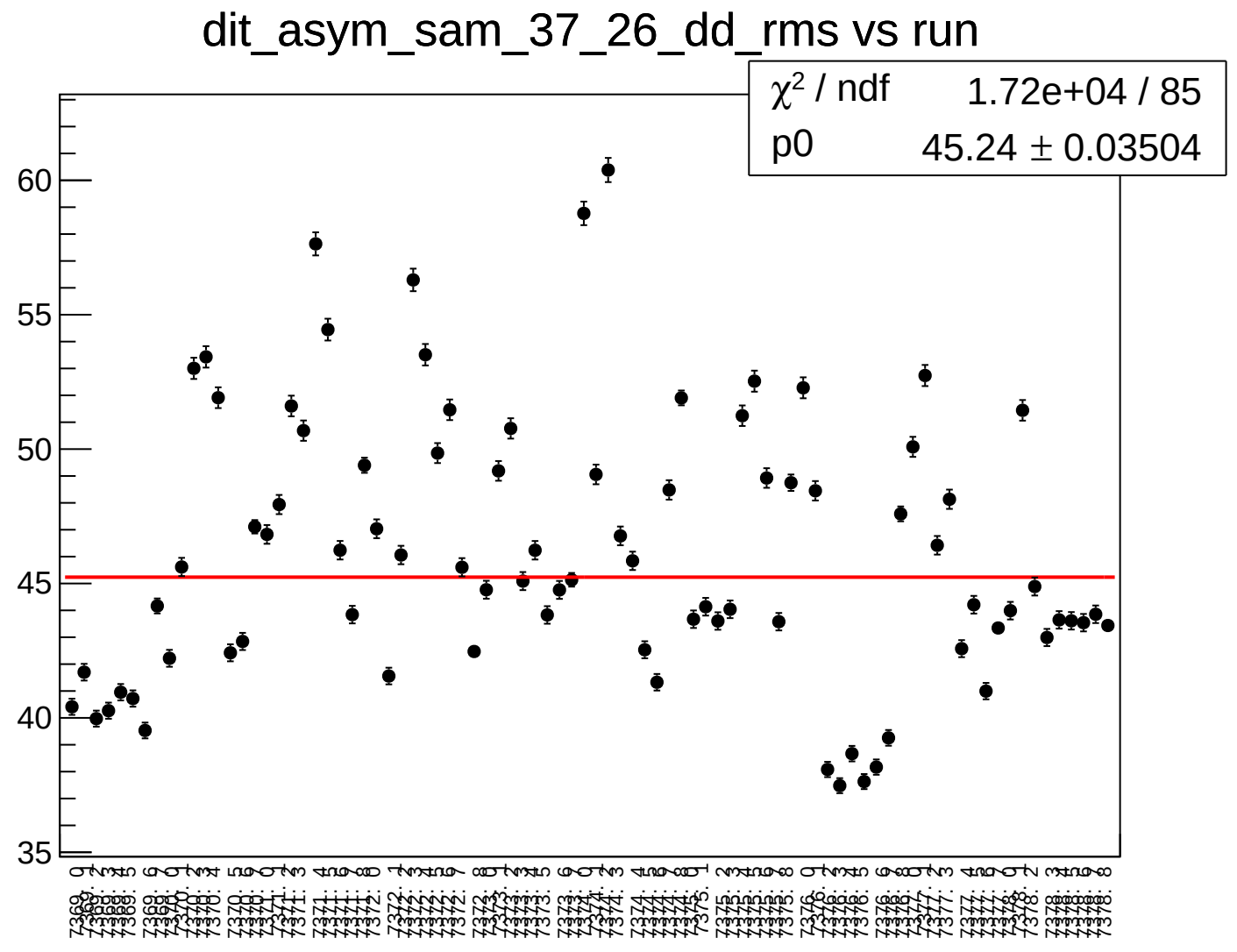

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3841 / 85
p0 38.2 ± 0.02947
44
42
40
38
36
34

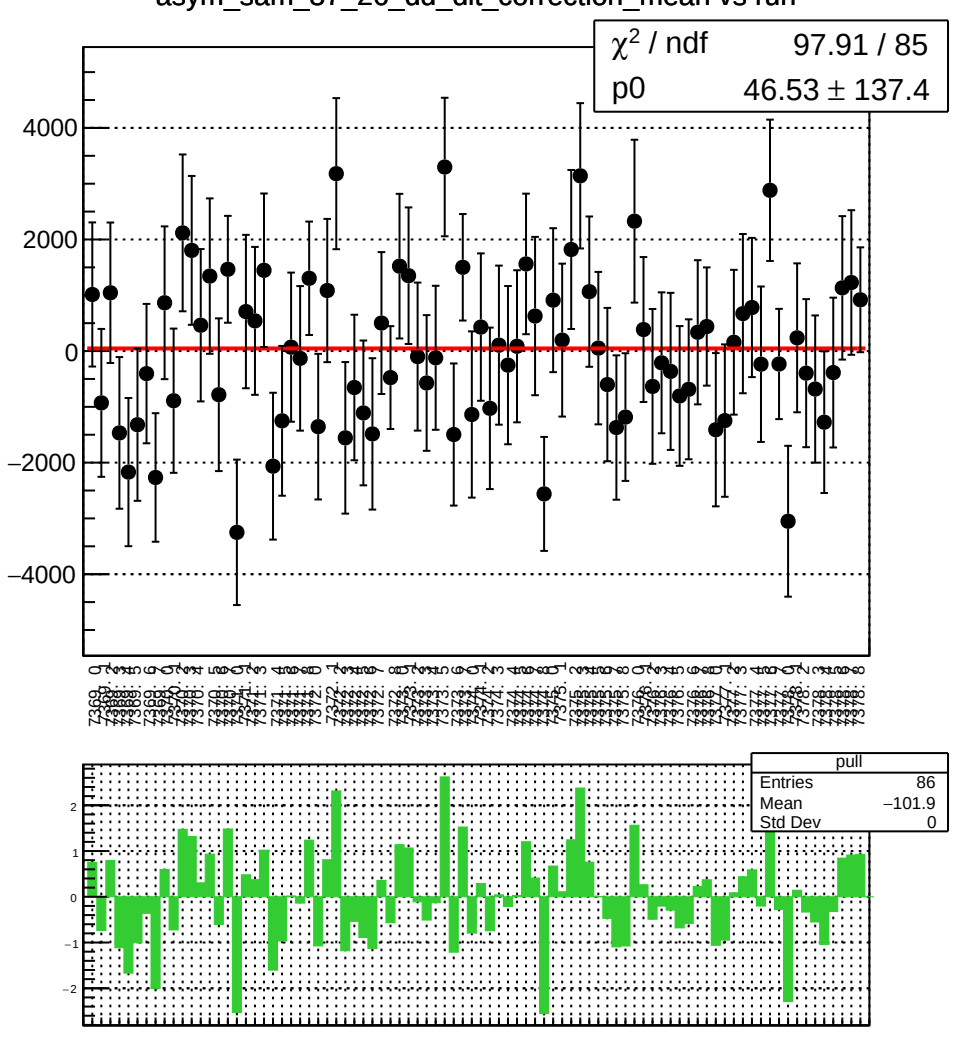

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.17 / 85
p0 49.29 ± 132.1
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −322.9
Std Dev 0
pull1D
Entries 86
Mean −0.003816
Std Dev 1.03

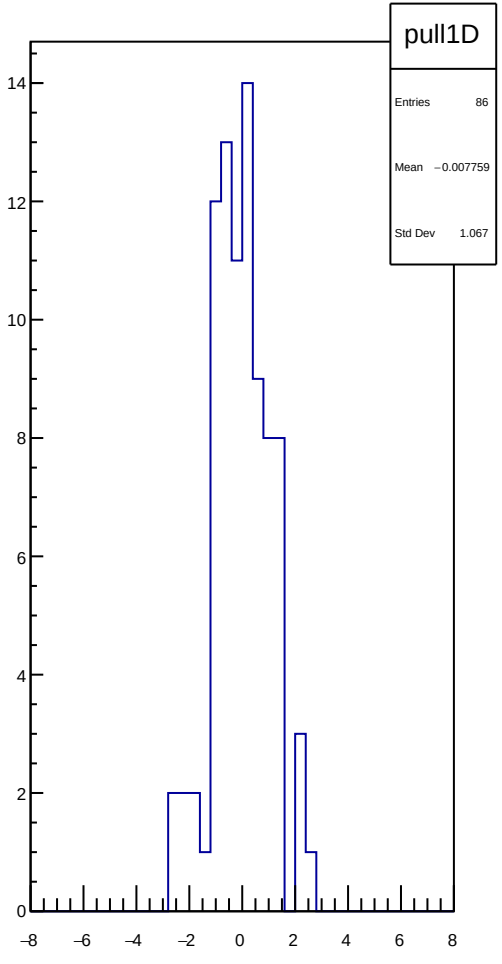

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6442 / 85
p0 120.9 ± 0.09338
145
140
135
130
125
120
115
110
105

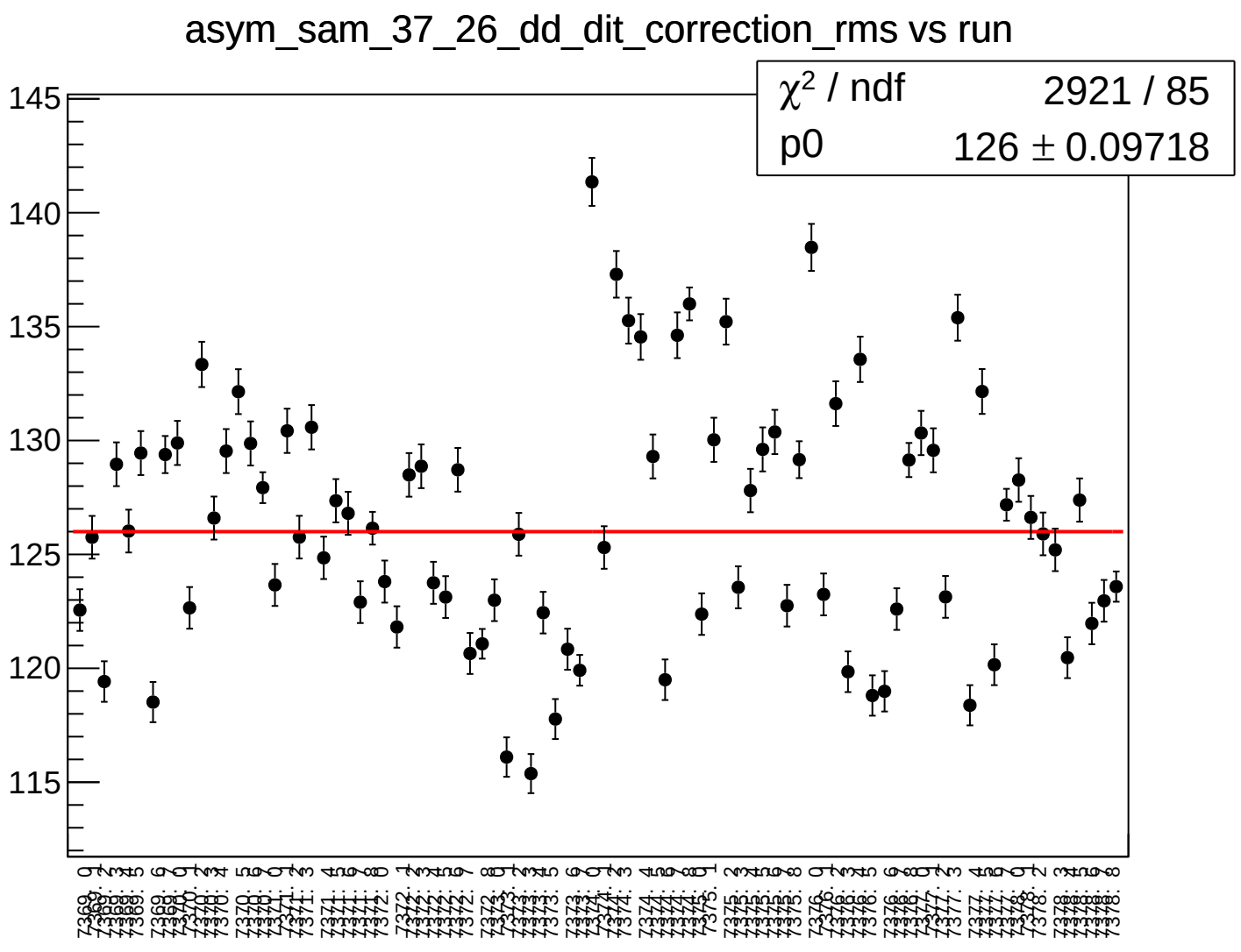

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 118.4 / 85
p0 81.1 ± 49.55
pull
Entries 86
Mean 79.24
Std Dev 41.31

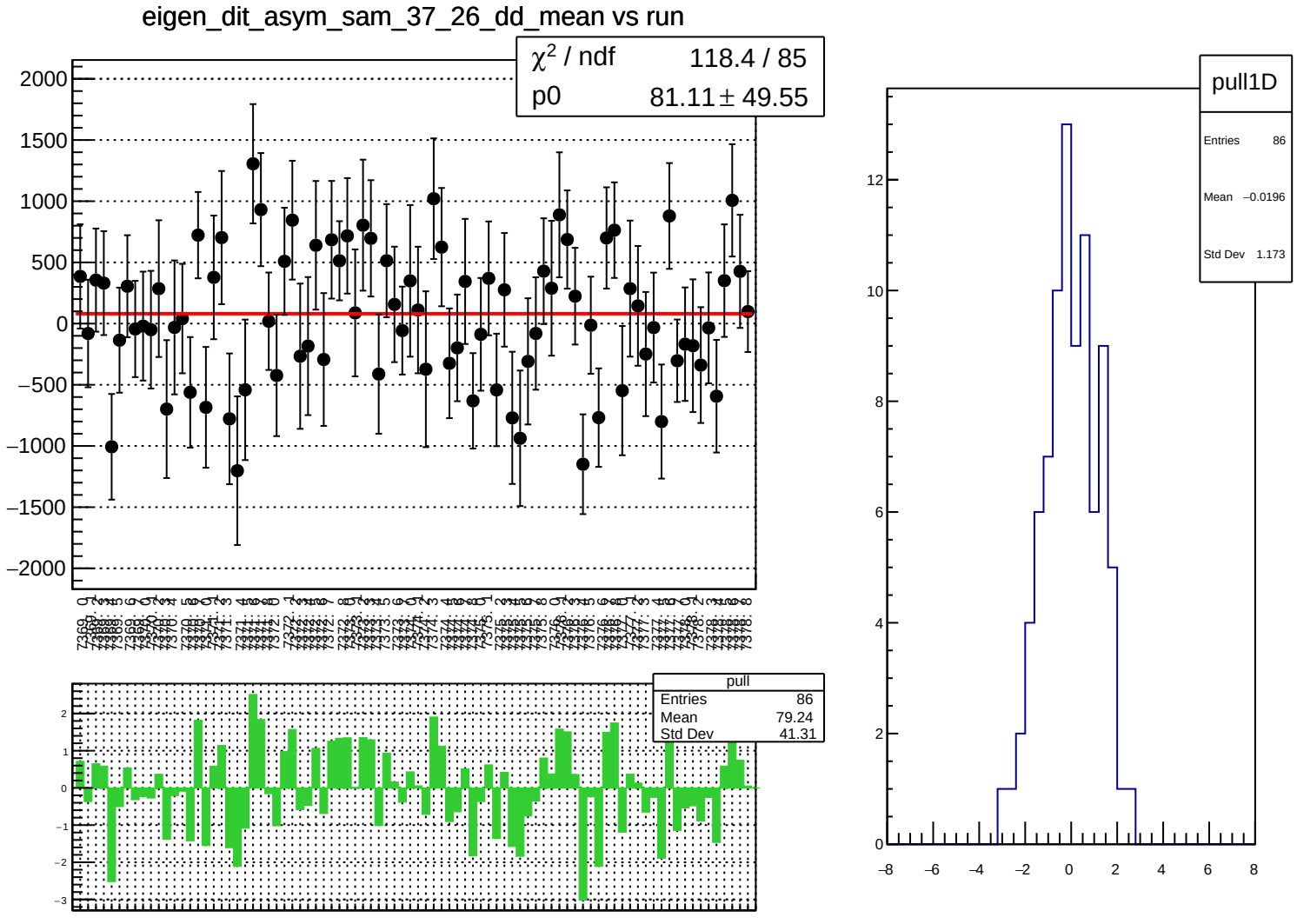

pull1D
Entries 86
Mean −0.0196
Std Dev 1.173

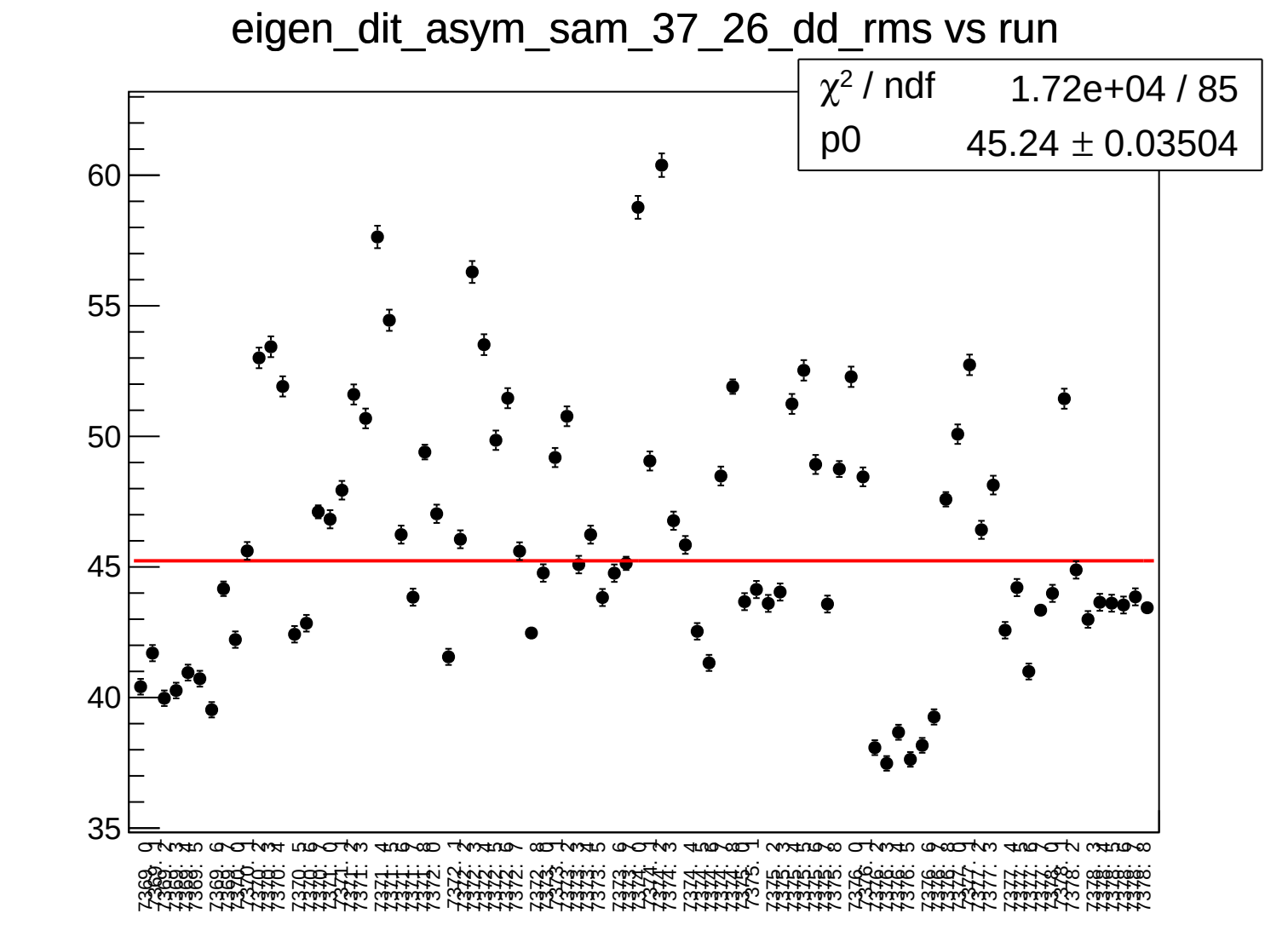

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.72e+04 / 85
p0 45.24 ± 0.03504
60
55
50
45
40
35

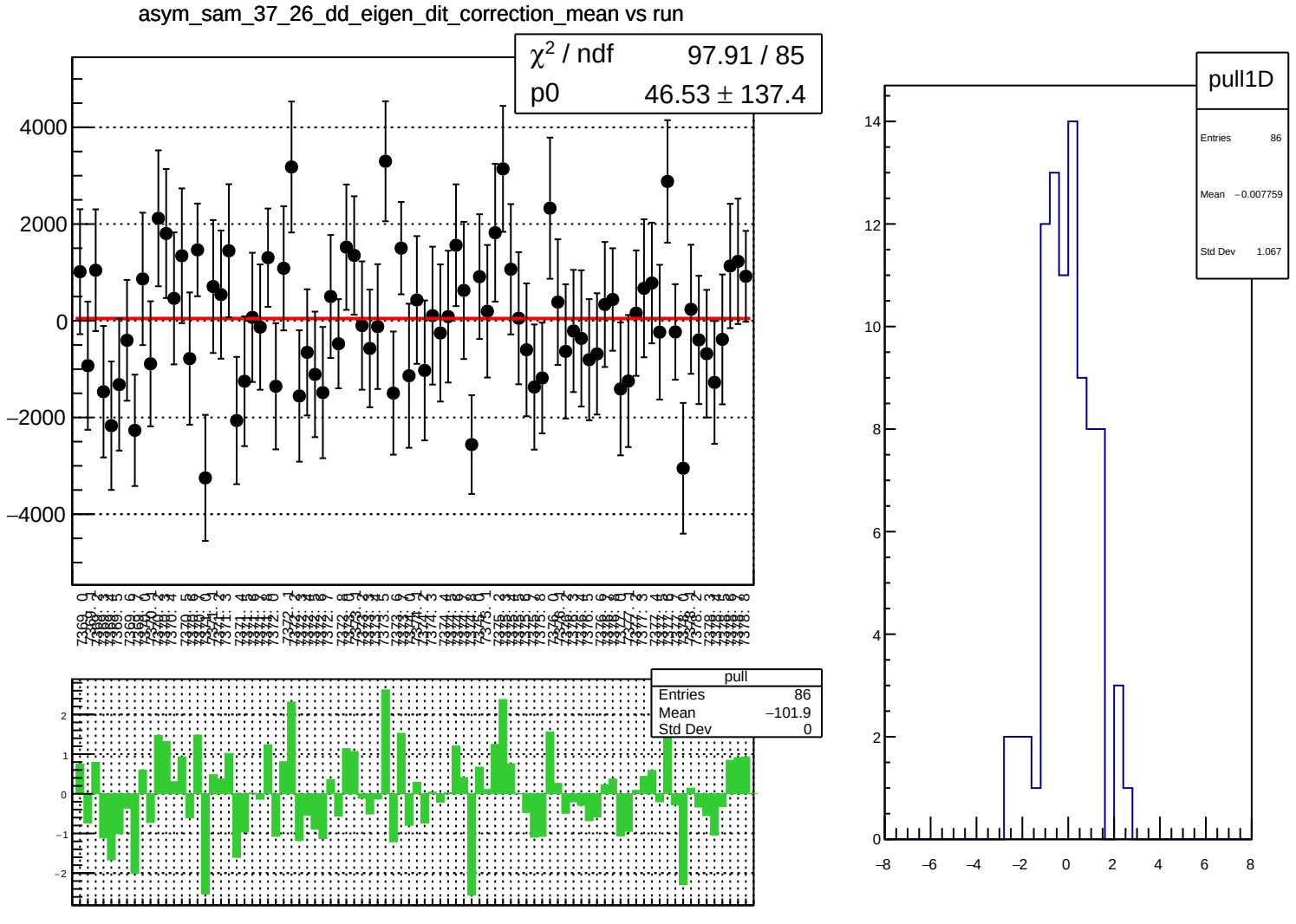

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 97.91 / 85
p0 46.53 ± 137.4
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −101.9
Std Dev 0
2
1
0
−1
−2

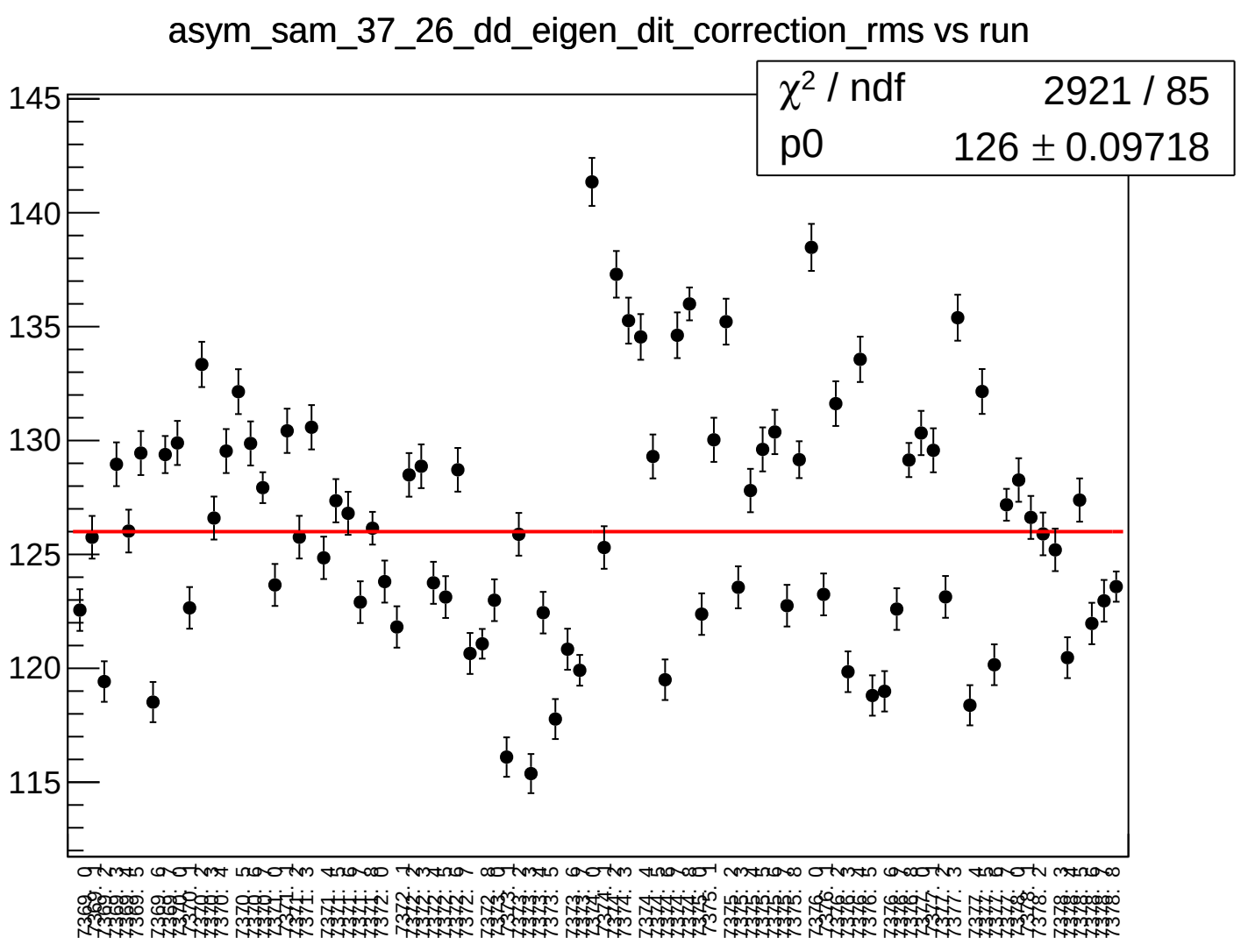

pull1D
Entries 86
Mean −0.007759
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

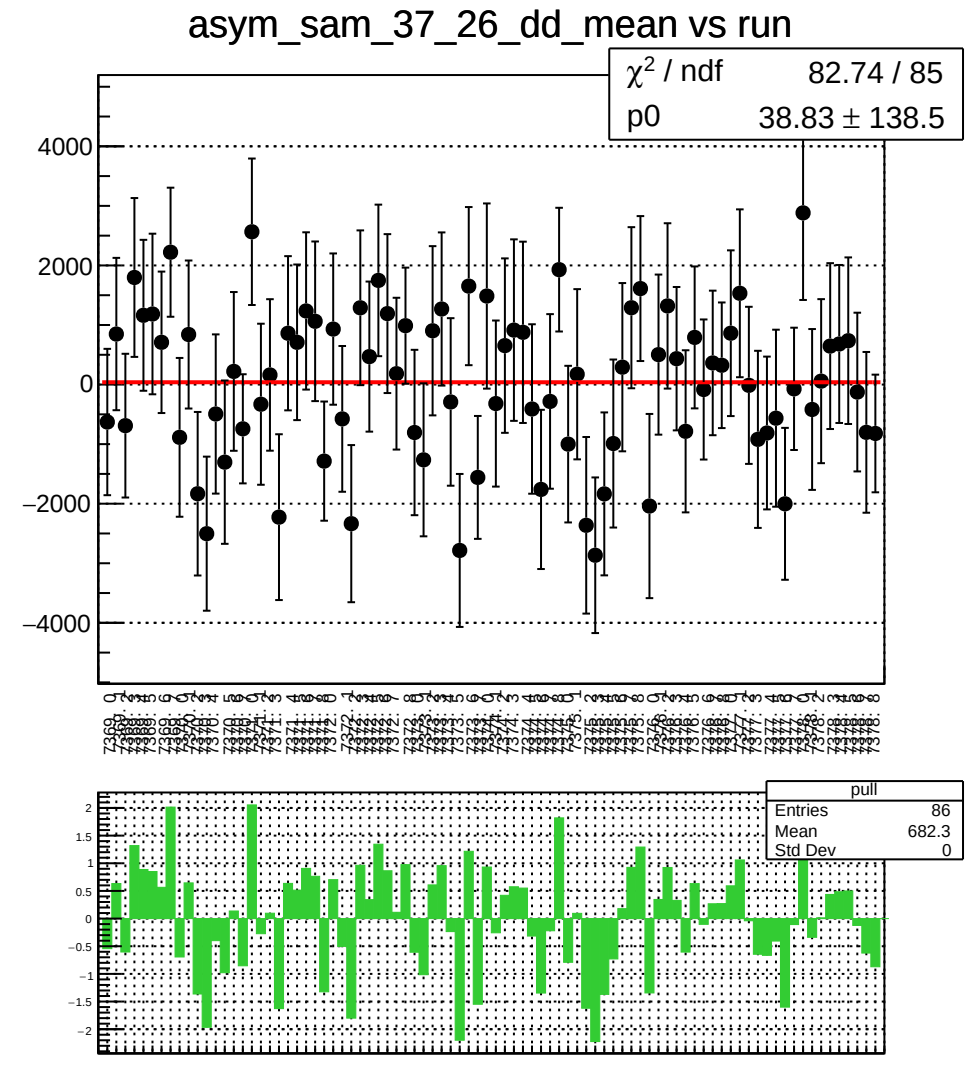

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 2921 / 85
p0 126 ± 0.09718
145
140
135
130
125
120
115

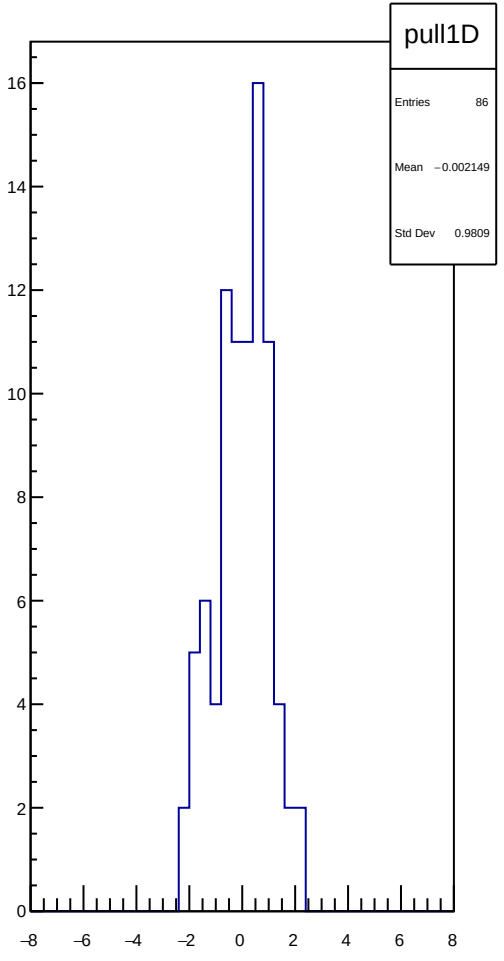

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 118.4 / 85
p0 81.11 ± 49.55
pull
Entries 86
Mean 79.24
Std Dev 41.31
pull1D
Entries 86
Mean −0.0196
Std Dev 1.173

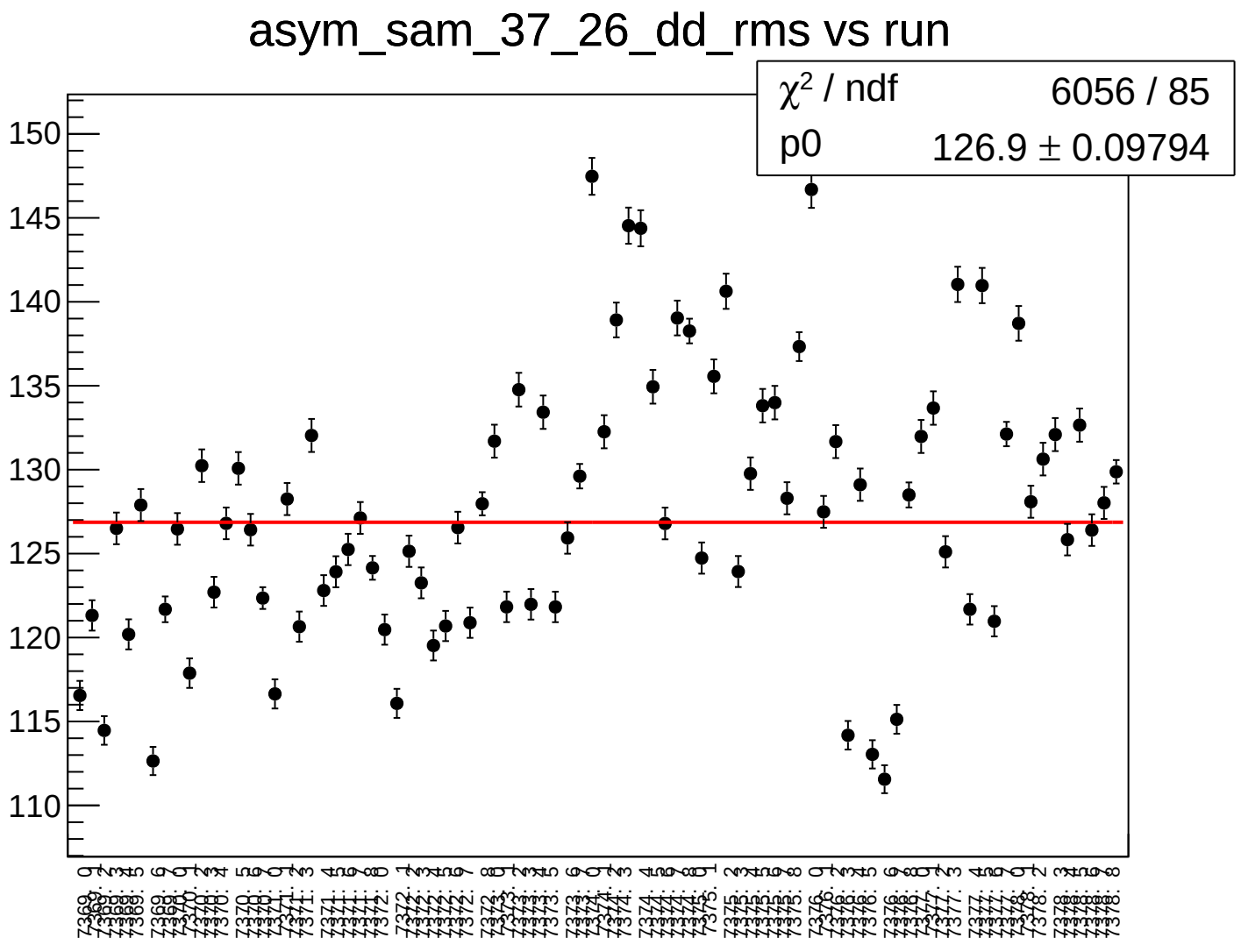

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.72e+04 / 85
p0 45.24 ± 0.03504
60
55
50
45
40
35

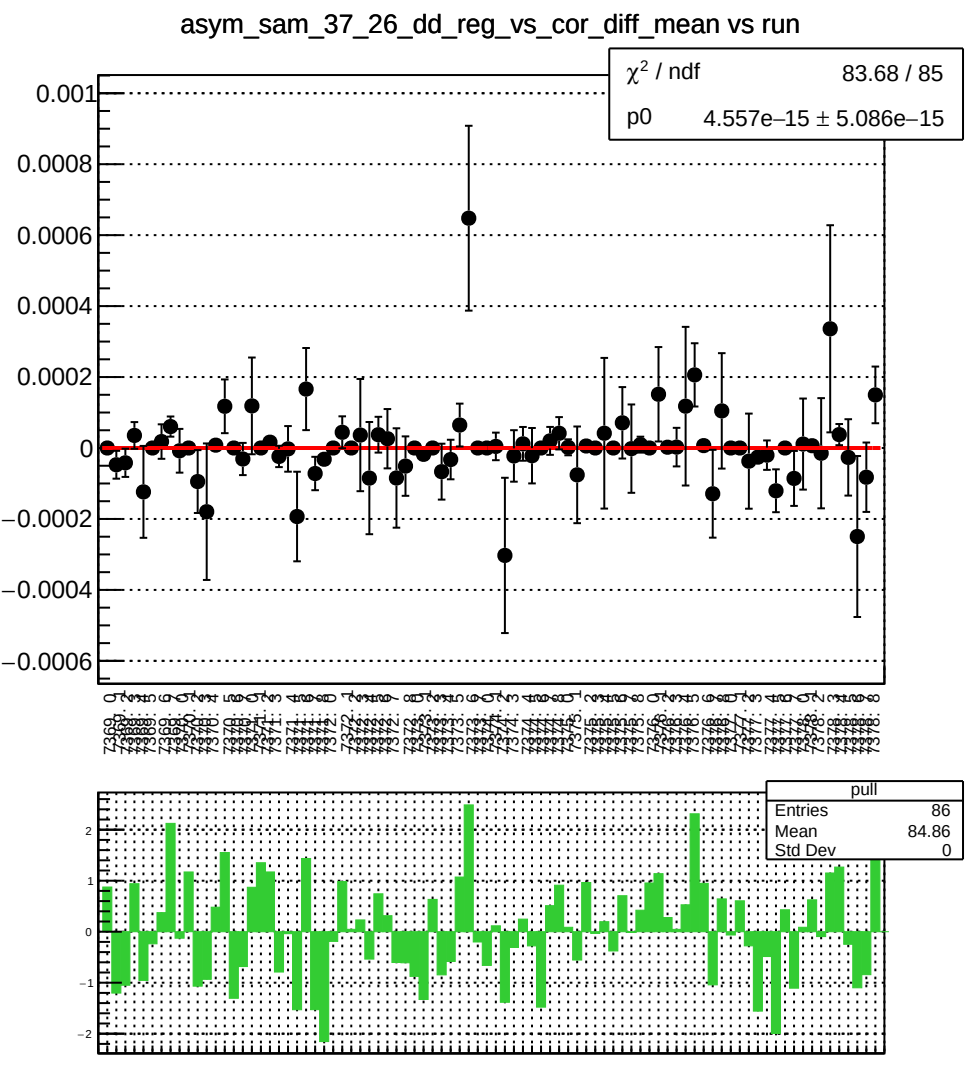

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.91 / 85
p0 46.53 ± 137.4
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −101.9
Std Dev 0
pull1D
Entries 86
Mean −0.007759
Std Dev 1.067

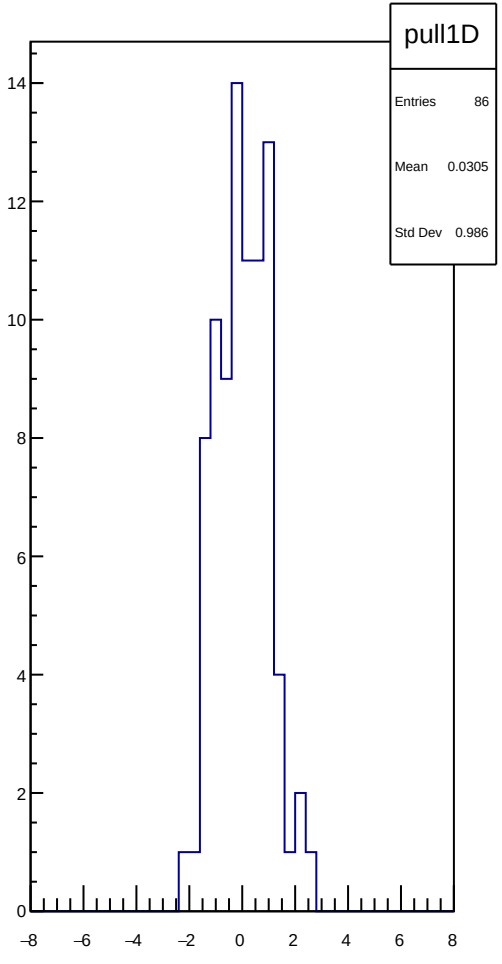

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2921 / 85
p0 126 ± 0.09718
145
140
135
130
125
120
115

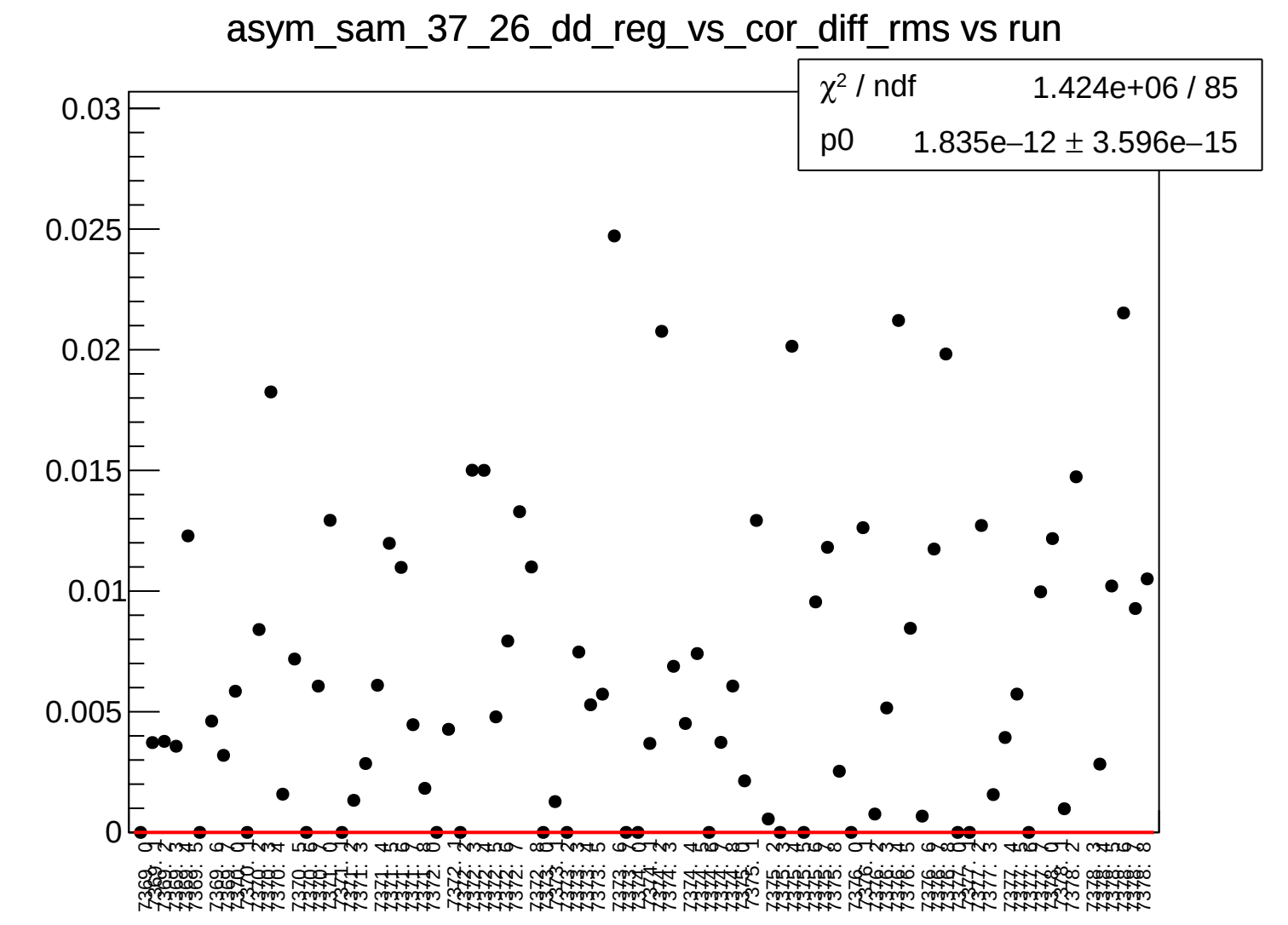

asym_sam_37_26_dd_mean vs run
χ² / ndf 82.74 / 85
p0 38.83 ± 138.5
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 682.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

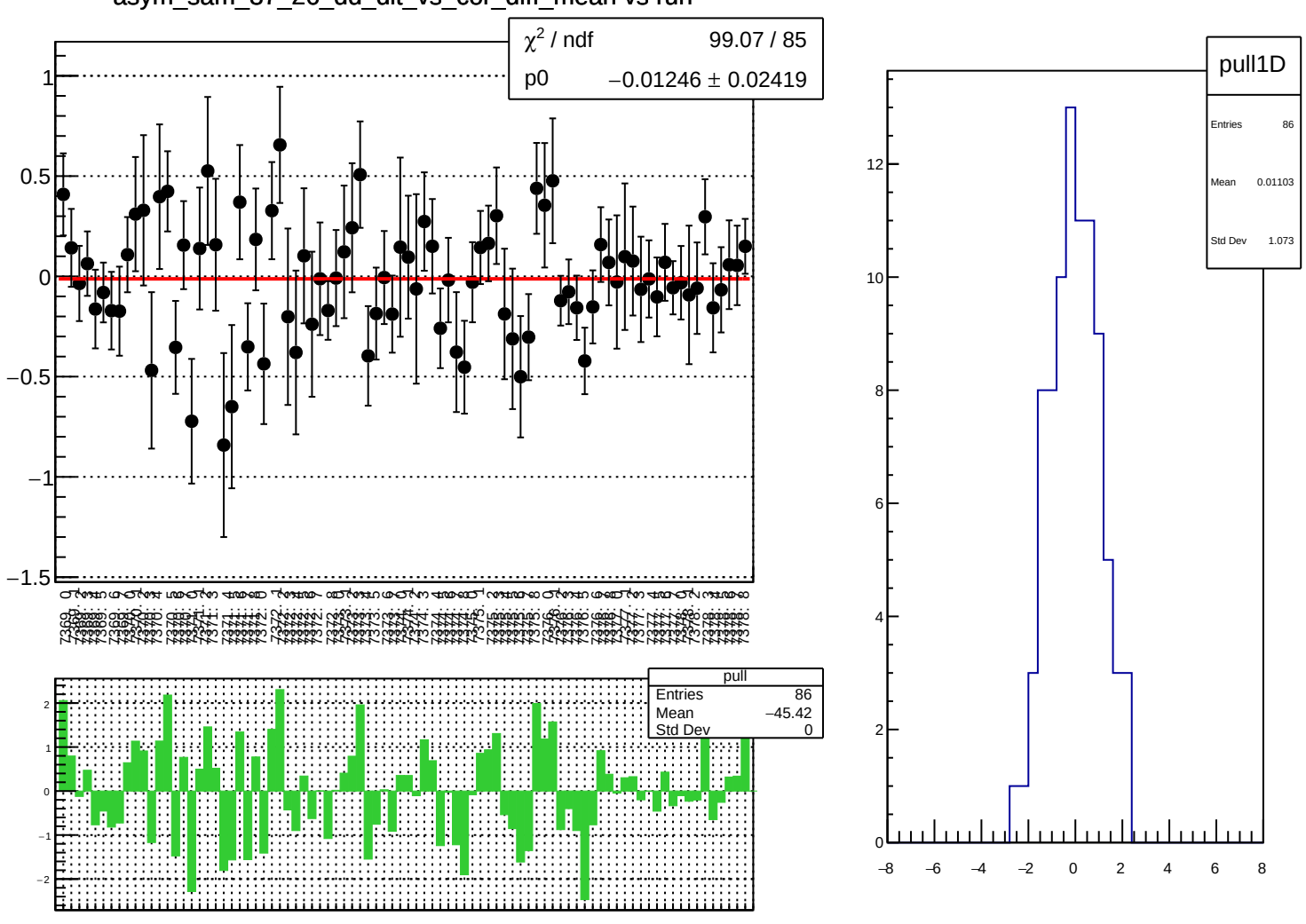

pull1D
Entries 86
Mean −0.002149
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

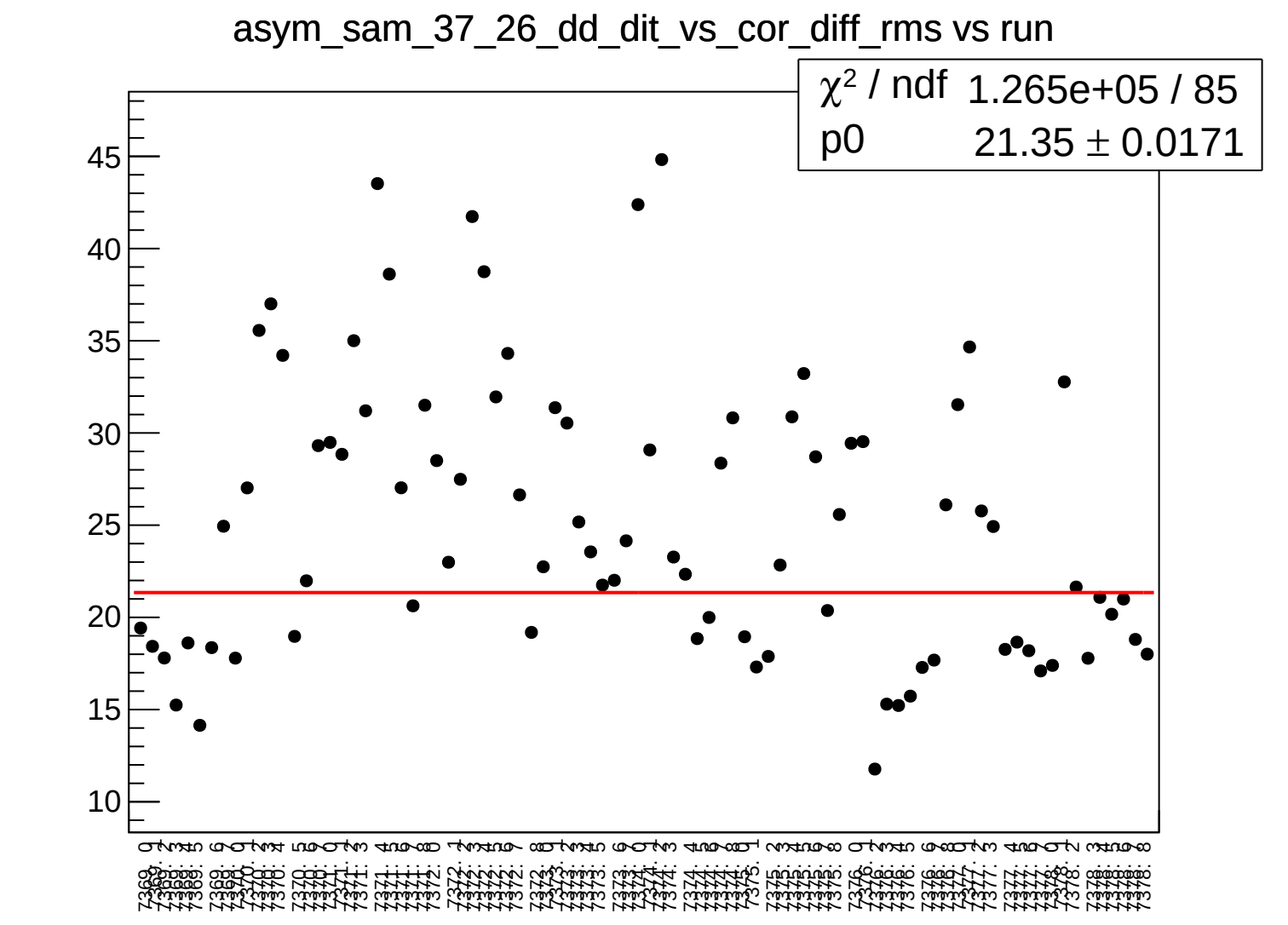

asym_sam_37_26_dd_rms vs run
χ² / ndf 6056 / 85
p0 126.9 ± 0.09794
150
145
140
135
130
125
120
115
110

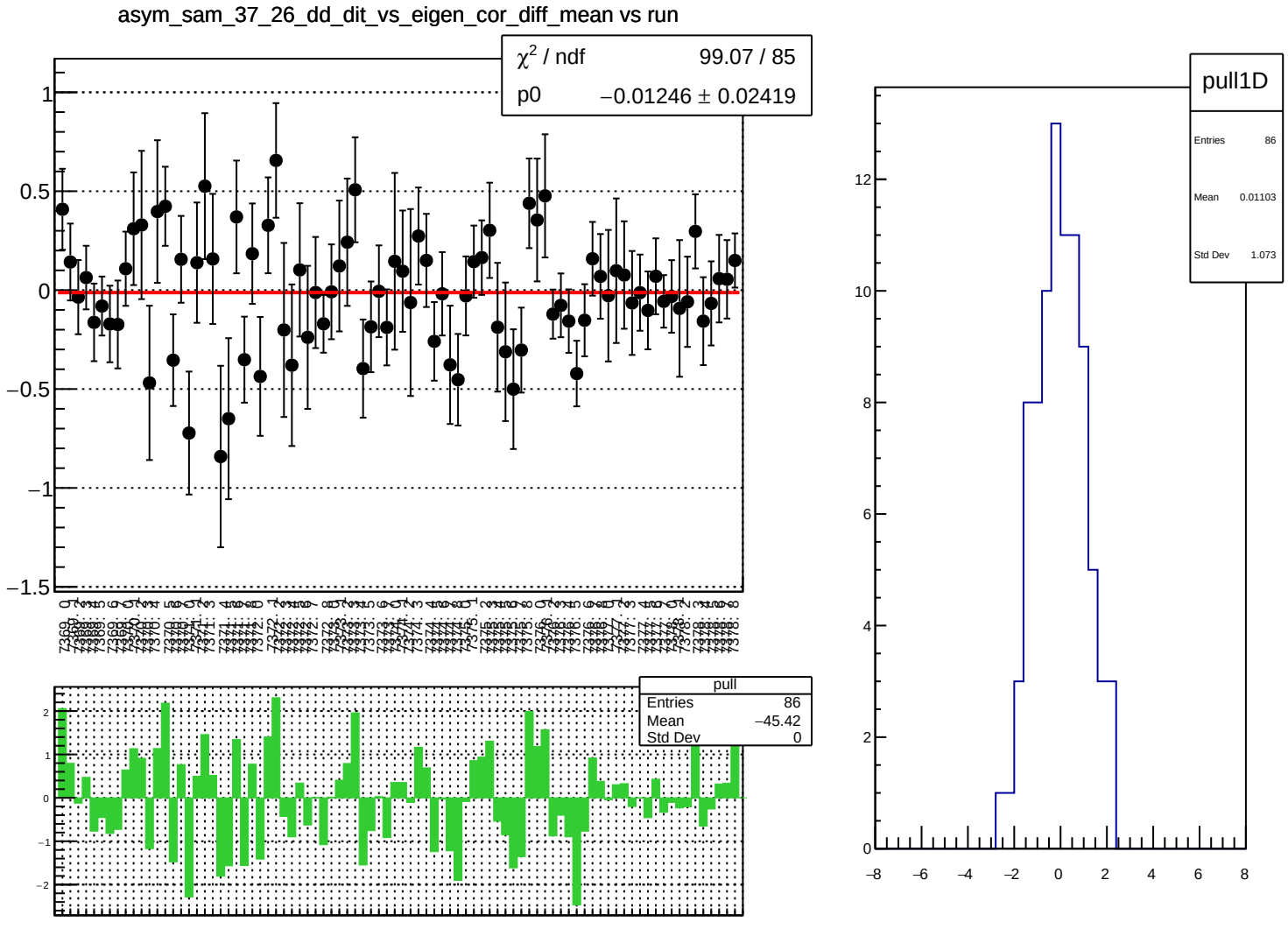

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.68 / 85
p0 4.557e−15 ± 5.086e−15
pull
Entries 86
Mean 84.86
Std Dev 0

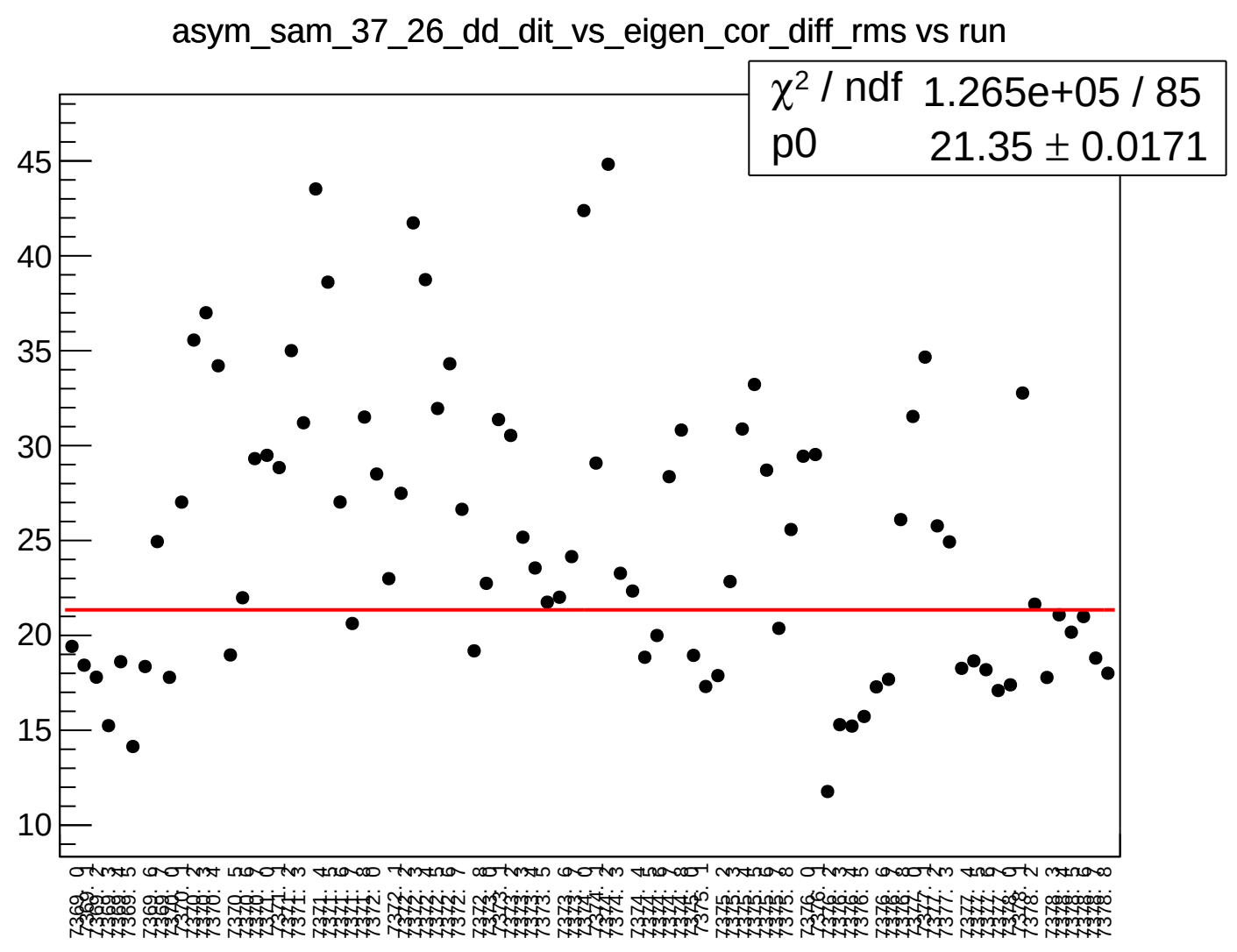

pull1D
Entries 86
Mean 0.0305
Std Dev 0.986

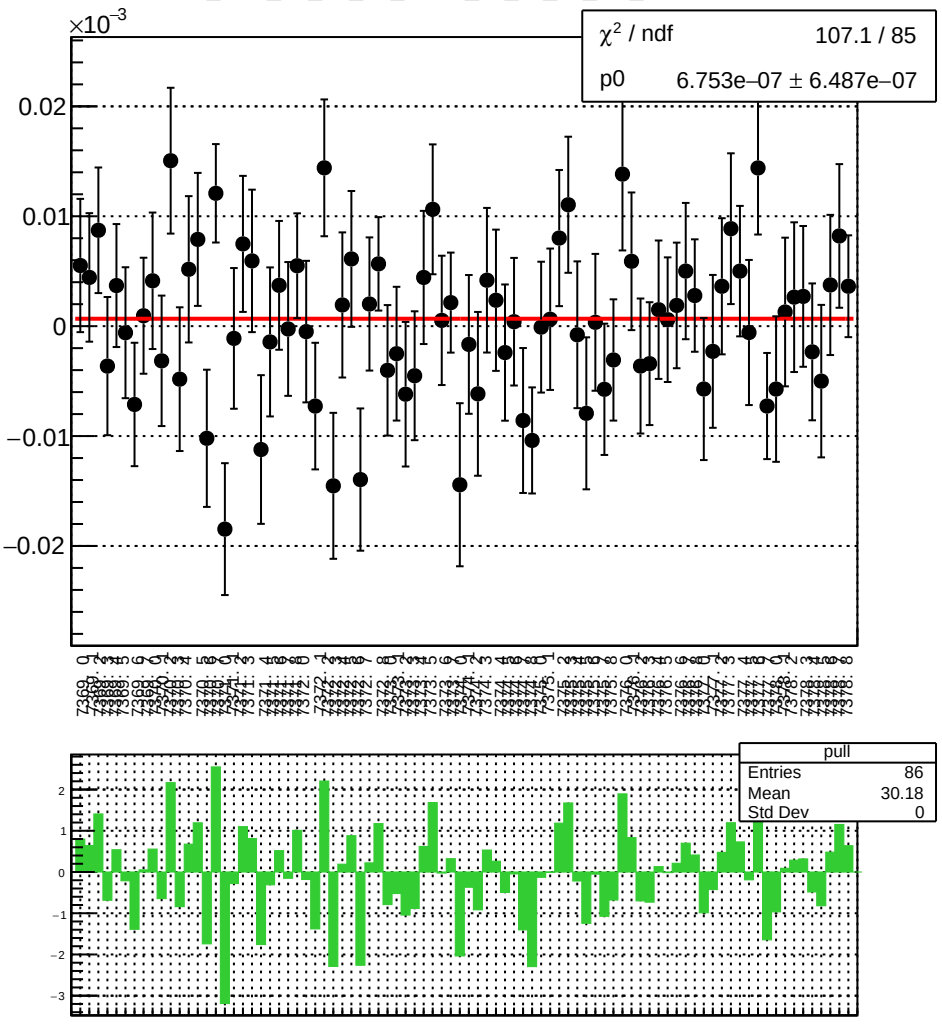

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.424e+06 / 85
p0 1.835e−12 ± 3.596e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

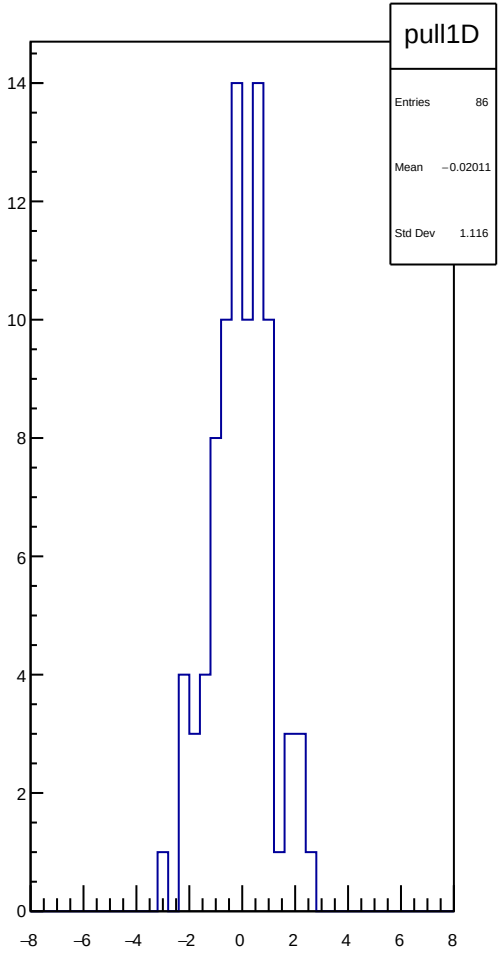

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.07 / 85
p0 −0.01246 ± 0.02419
pull
Entries 86
Mean −45.42
Std Dev 0
pull1D
Entries 86
Mean 0.01103
Std Dev 1.073

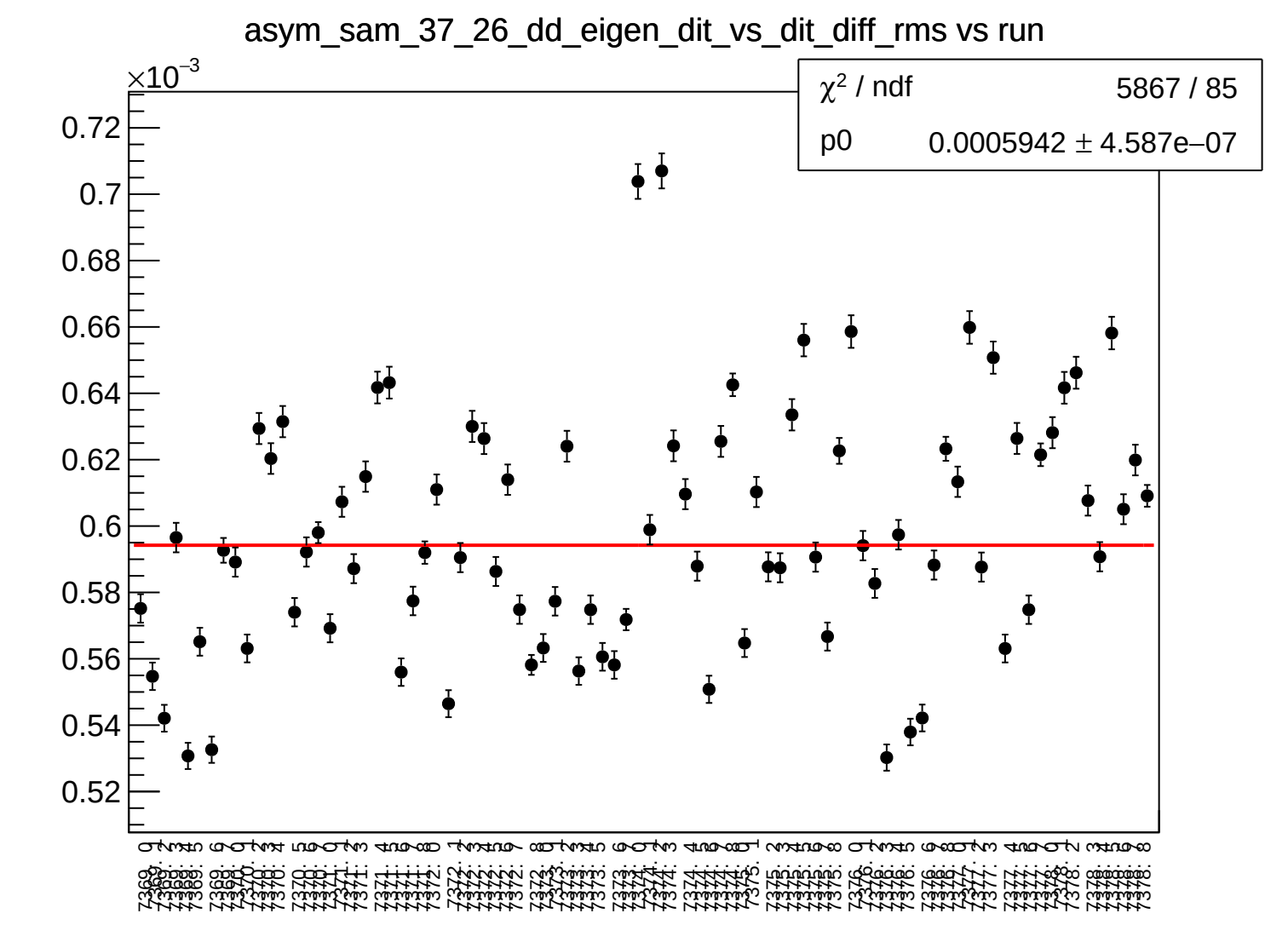

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.265e+05 / 85
p0 21.35 ± 0.0171
45
40
35
30
25
20
15
10

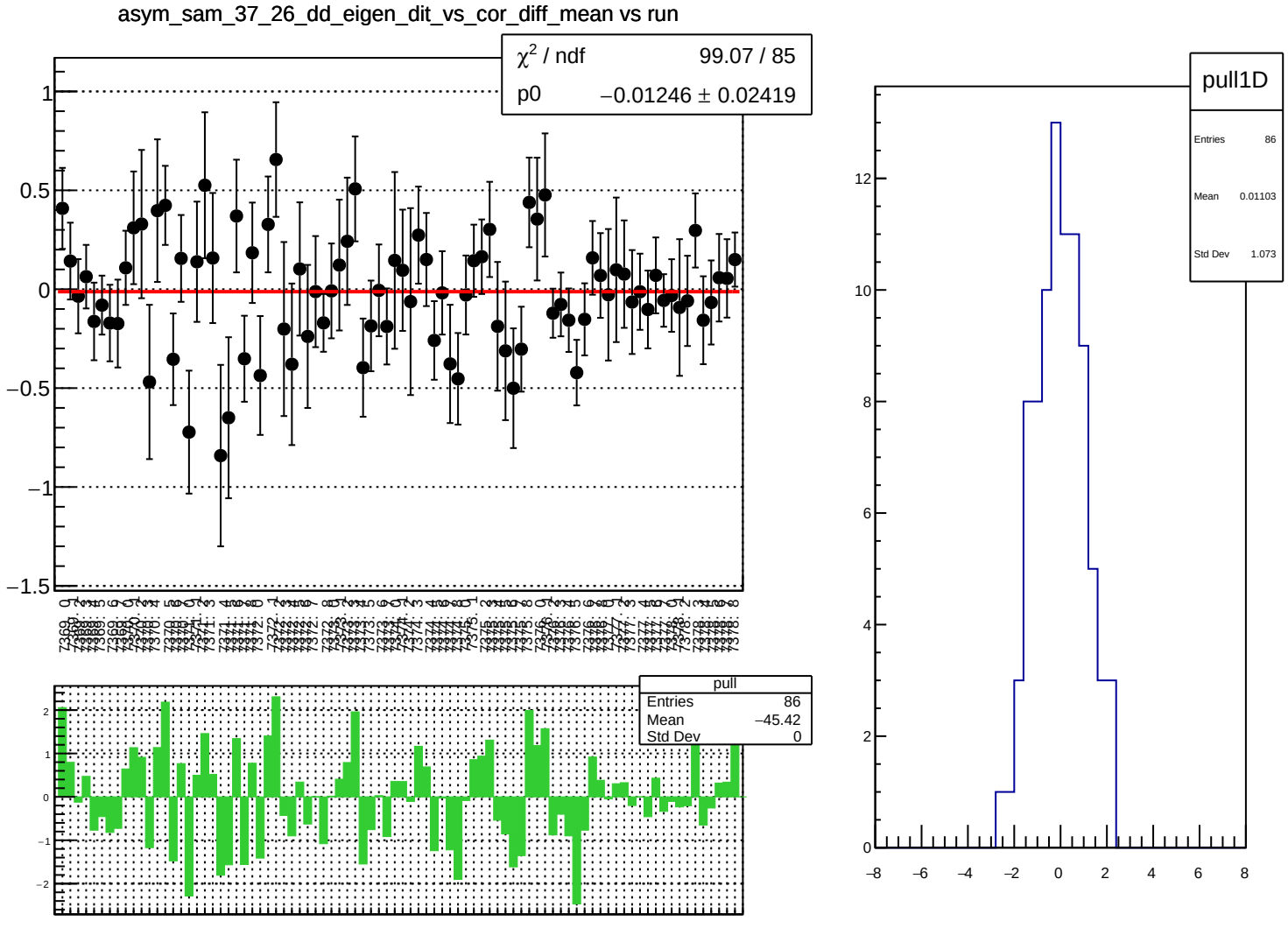

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.07 / 85
p0 −0.01246 ± 0.02419
pull
Entries 86
Mean −45.42
Std Dev 0
pull1D
Entries 86
Mean 0.01103
Std Dev 1.073

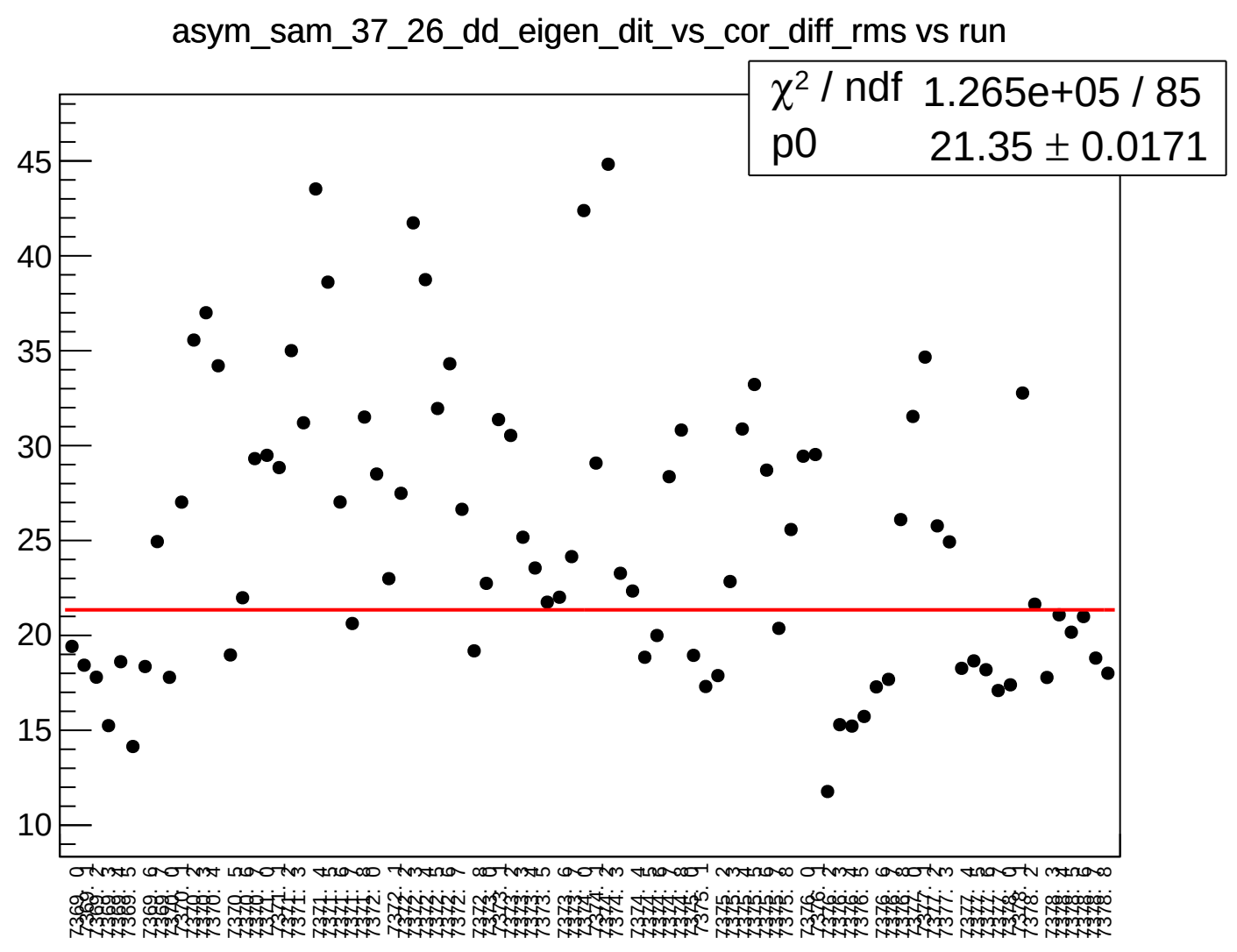

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.265e+05 / 85
p0 21.35 ± 0.0171
45
40
35
30
25
20
15
10


asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.1 / 85
p0 6.753e−07 ± 6.487e−07
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 30.18
Std Dev 0
2
1
0
−1
−2
−3

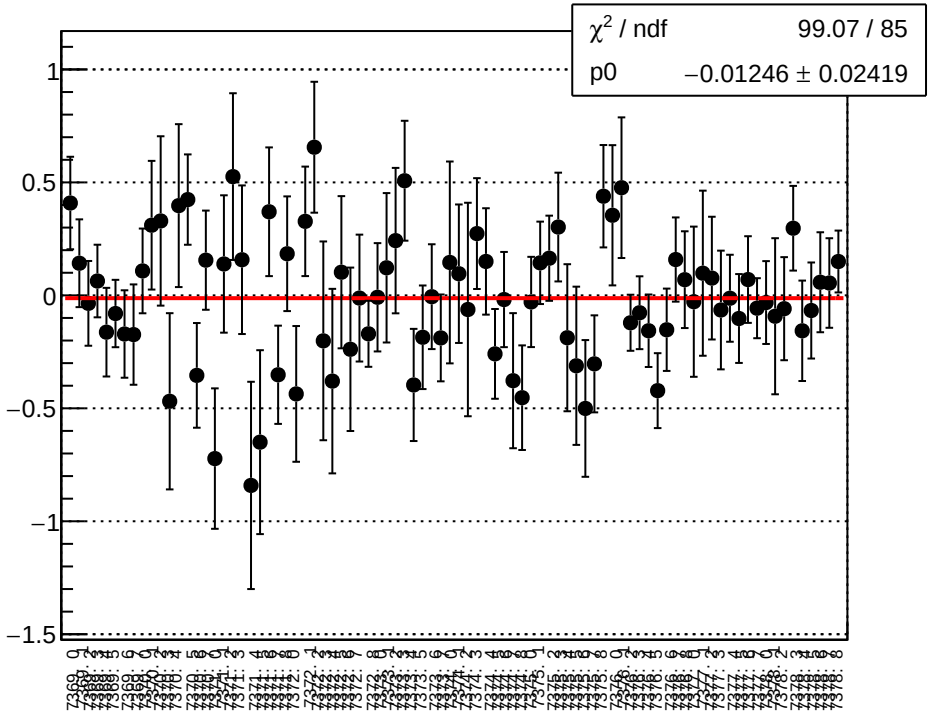

pull1D
Entries 86
Mean −0.02011
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

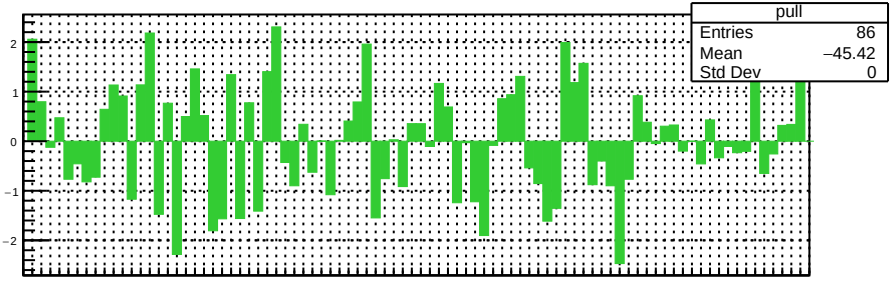

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 5867 / 85
p0 0.0005942 ± 4.587e−07
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52

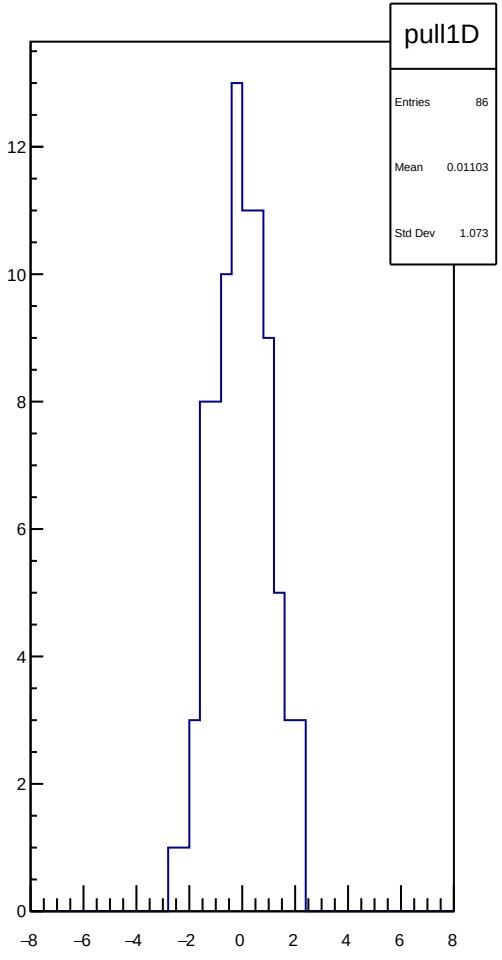

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.07 / 85
p0 −0.01246 ± 0.02419
pull
Entries 86
Mean −45.42
Std Dev 0
pull1D
Entries 86
Mean 0.01103
Std Dev 1.073

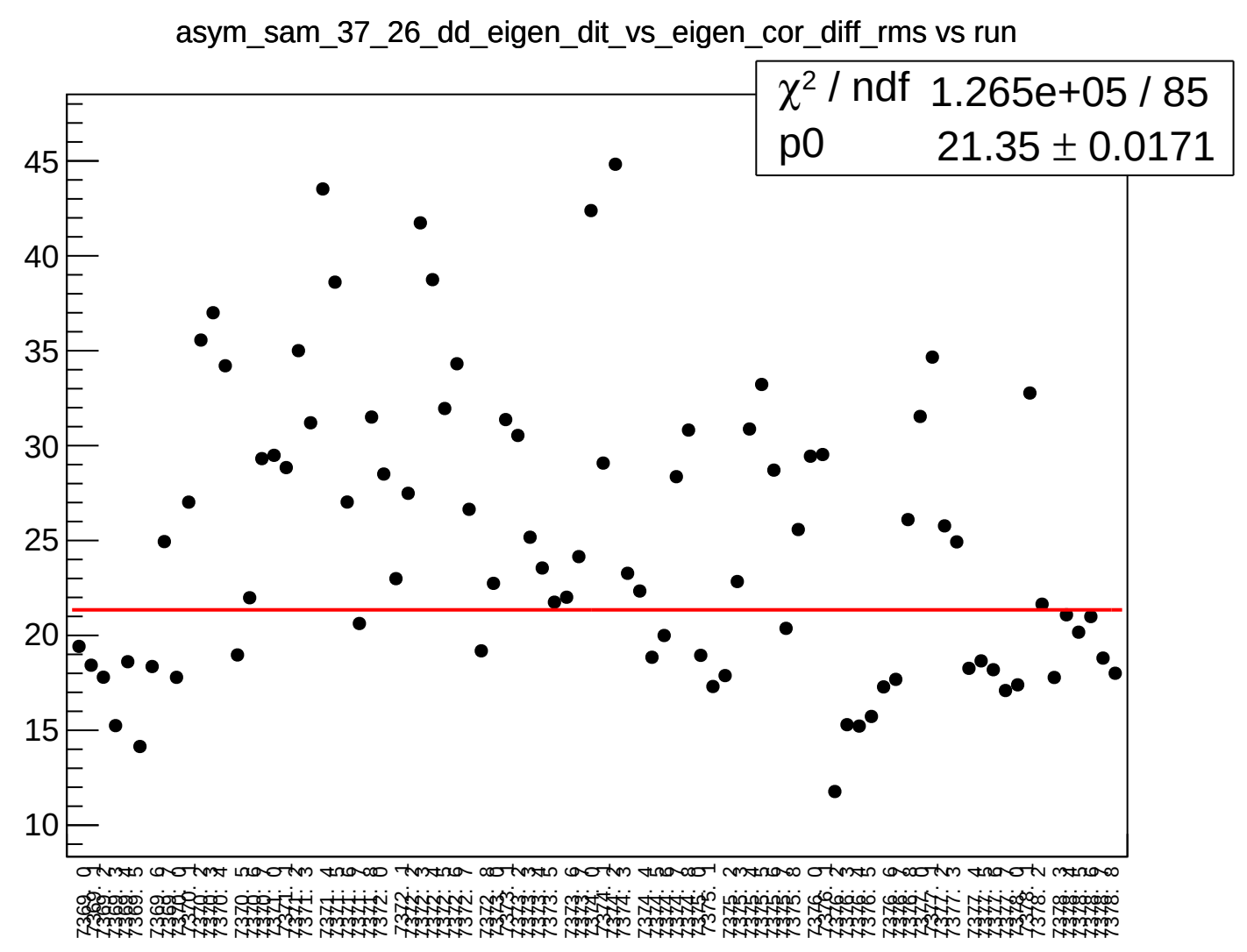

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.265e+05 / 85
p0 21.35 ± 0.0171
45
40
35
30
25
20
15
10

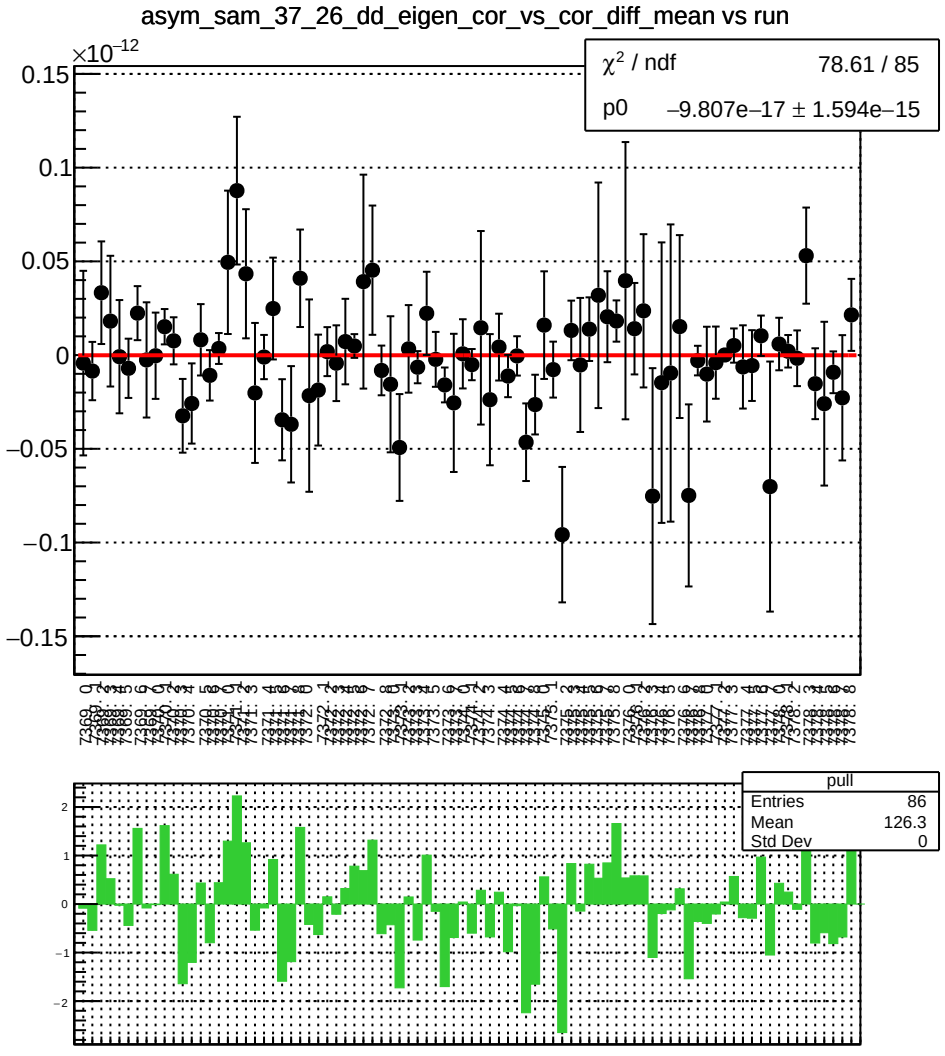
asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

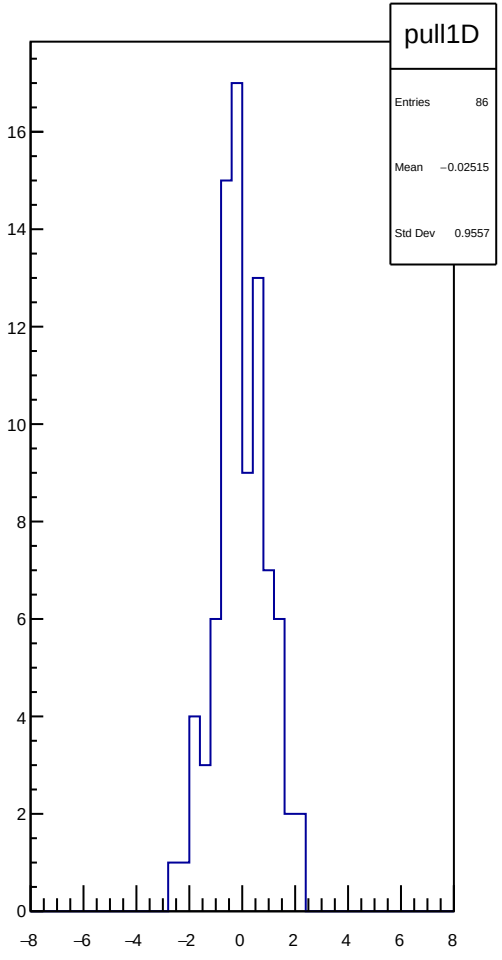


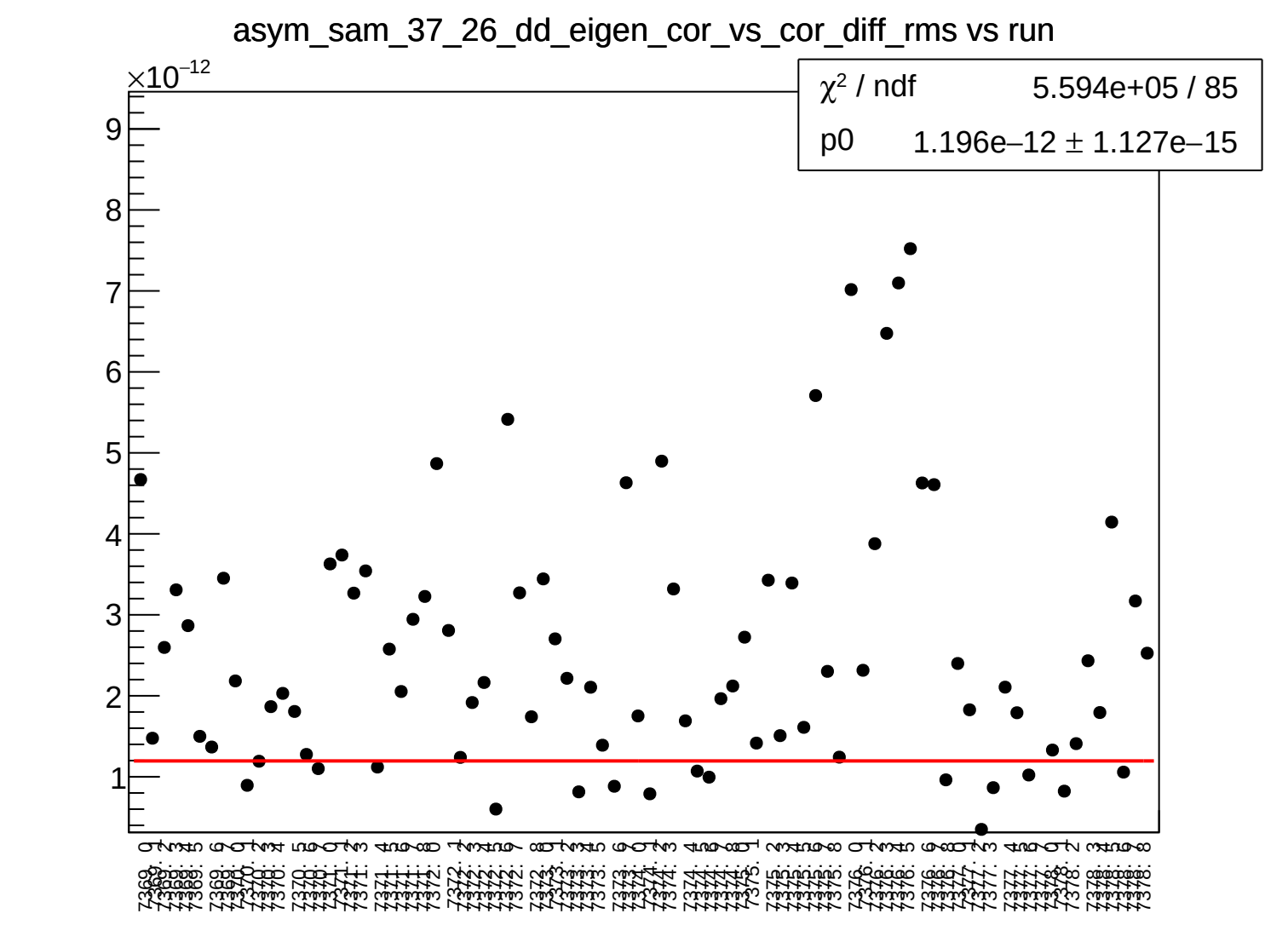


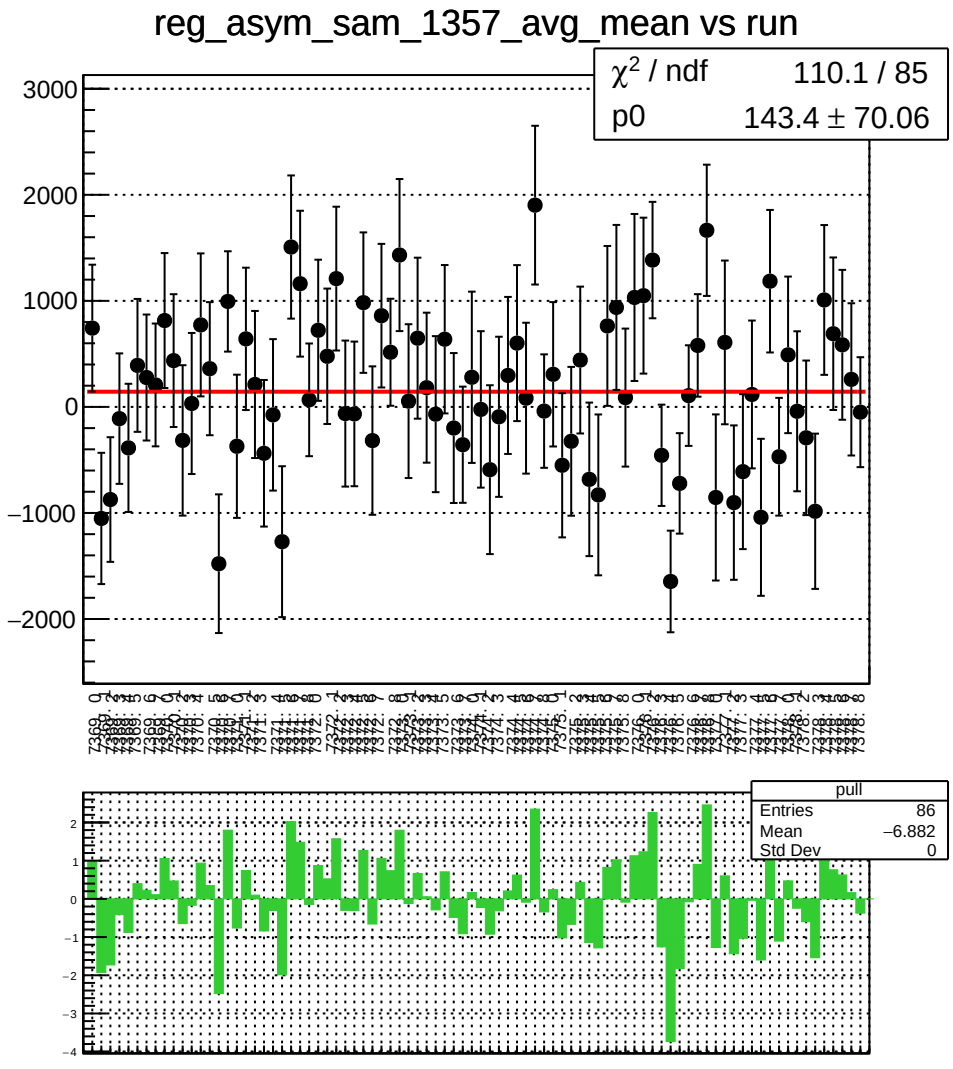


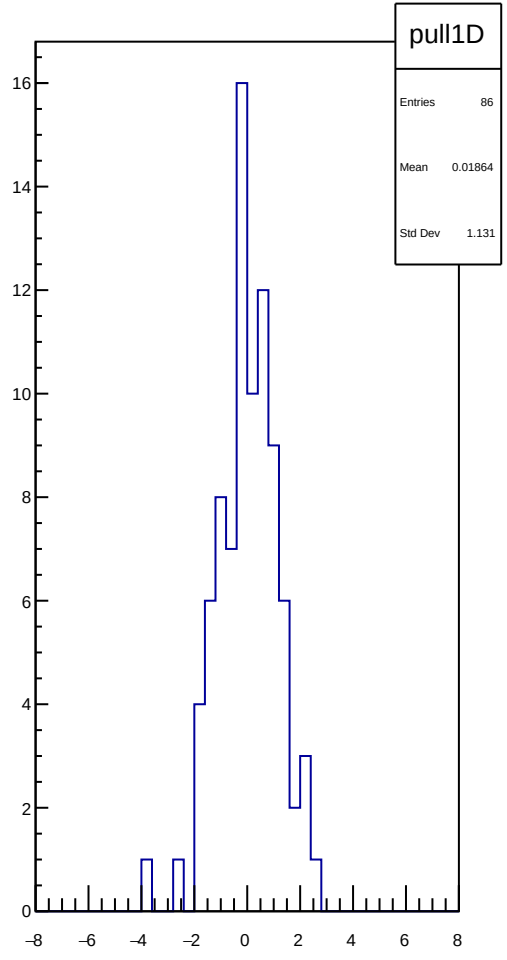

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.265e+05 / 85
p0 21.35 ± 0.0171
45
40
35
30
25
20
15
10


asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.61 / 85
p0 −9.807e−17 ± 1.594e−15
pull
Entries 86
Mean 126.3
Std Dev 0


pull1D
Entries 86
Mean −0.02515
Std Dev 0.9557


asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.594e+05 / 85
p0 1.196e−12 ± 1.127e−15
9
8
7
6
5
4
3
2
1


reg_asym_sam_1357_avg_mean vs run
χ² / ndf 110.1 / 85
p0 143.4 ± 70.06
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −6.882
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 86
Mean 0.01864
Std Dev 1.131
16
14
12
10
8
6
4
2
0
−8
−6
−4
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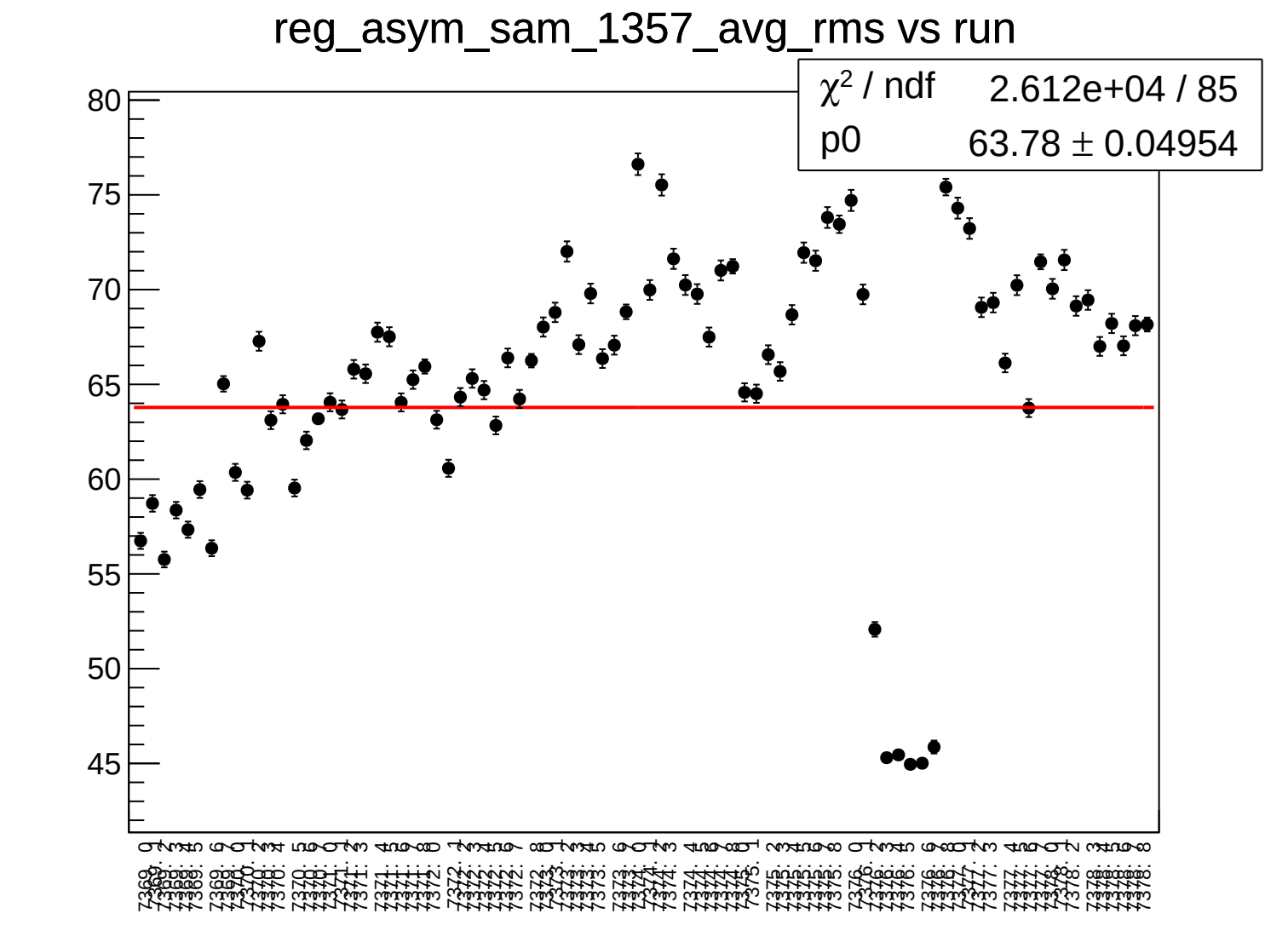
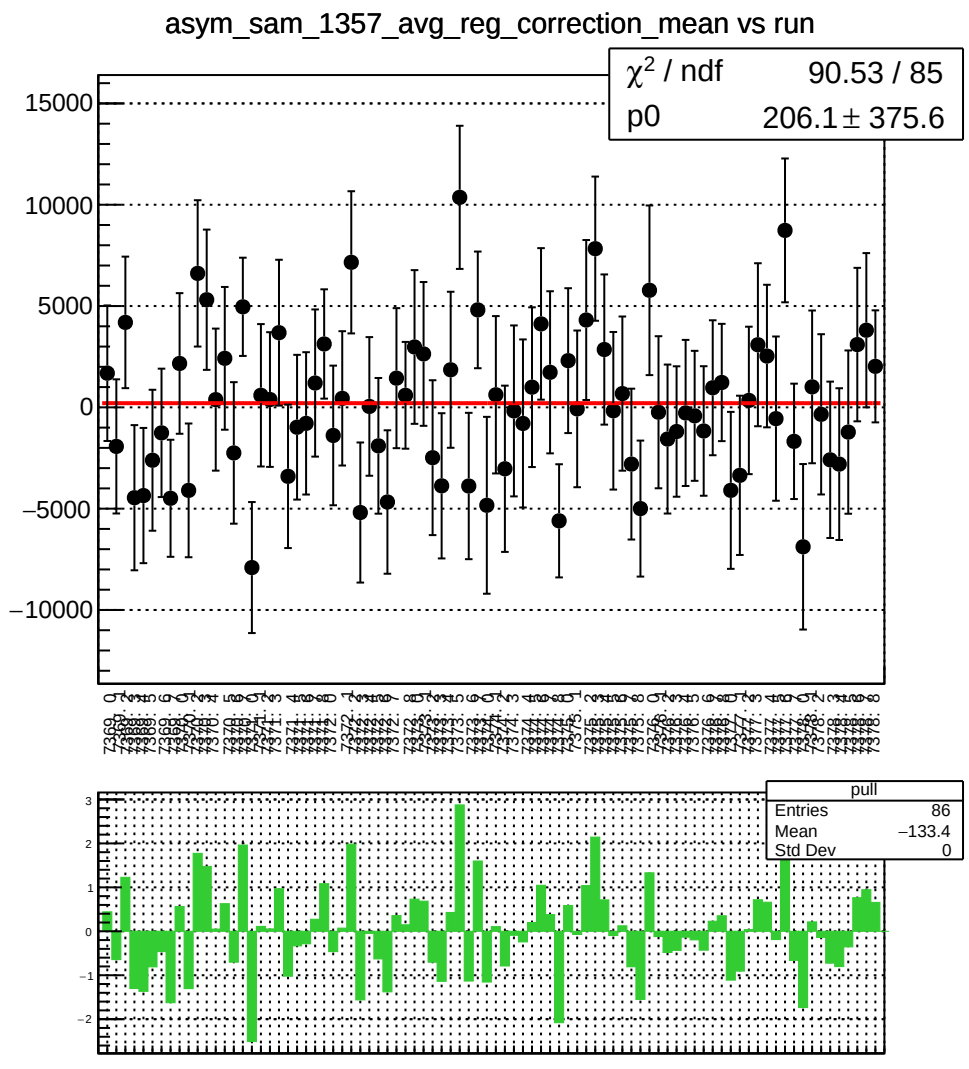
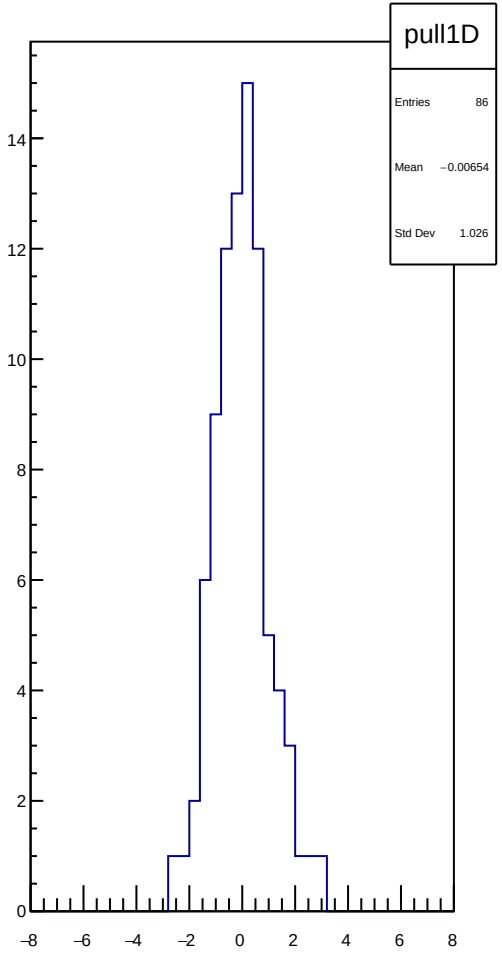
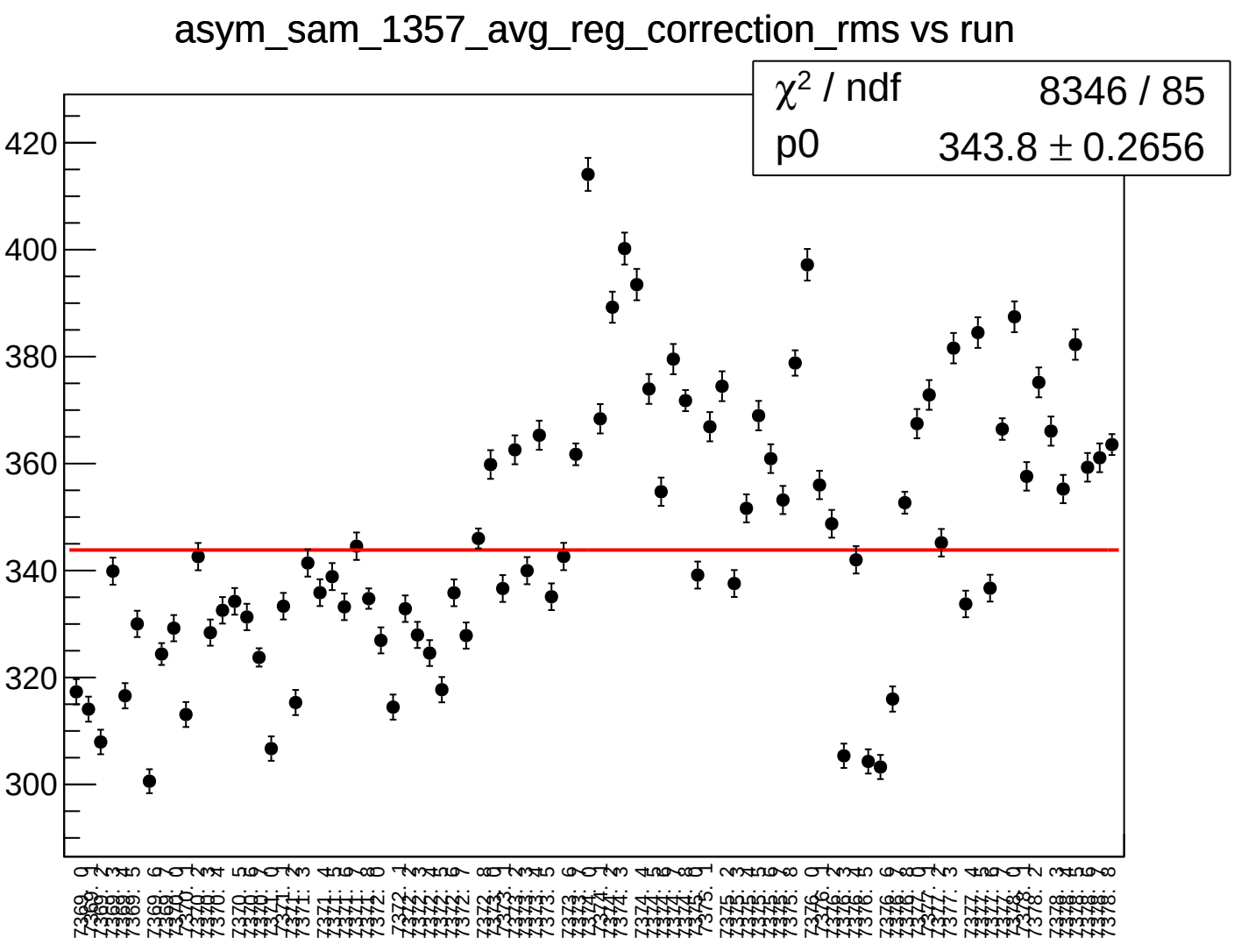
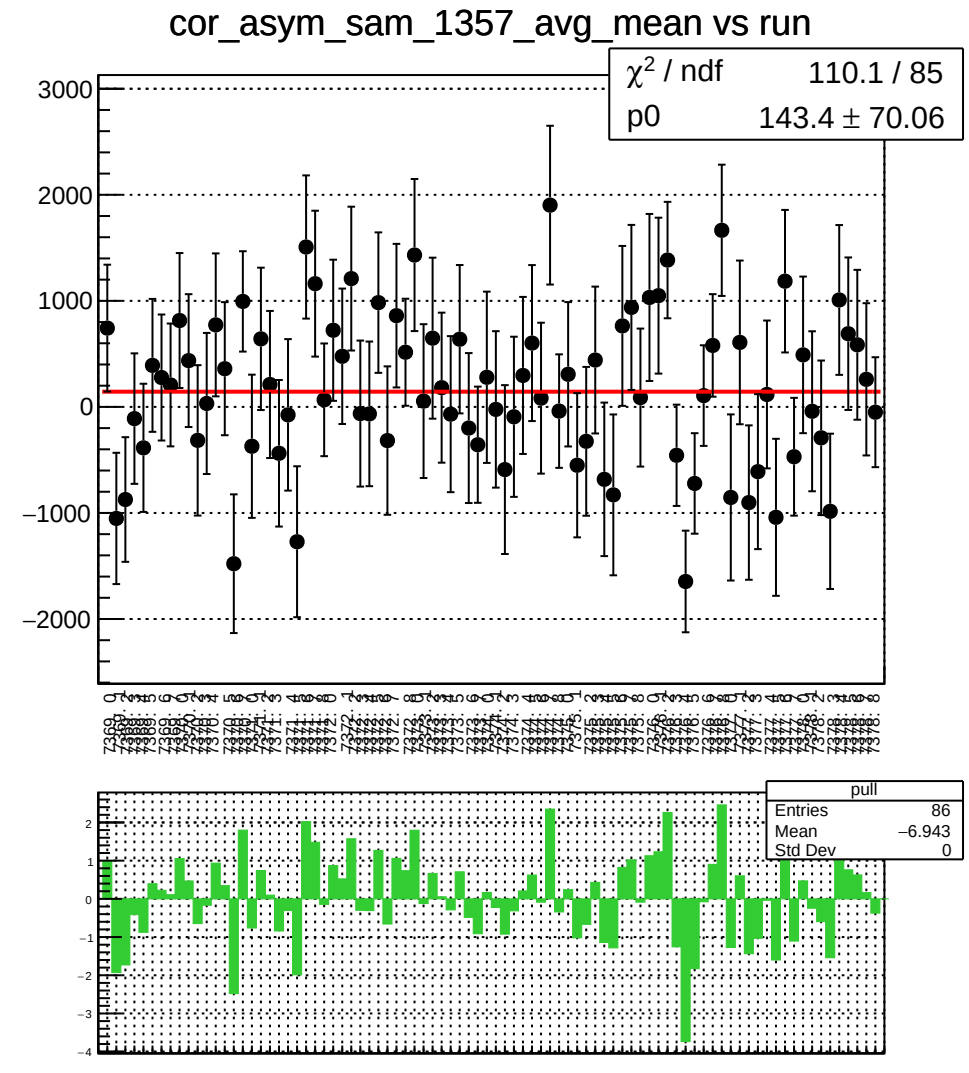
0
2
4
6
8

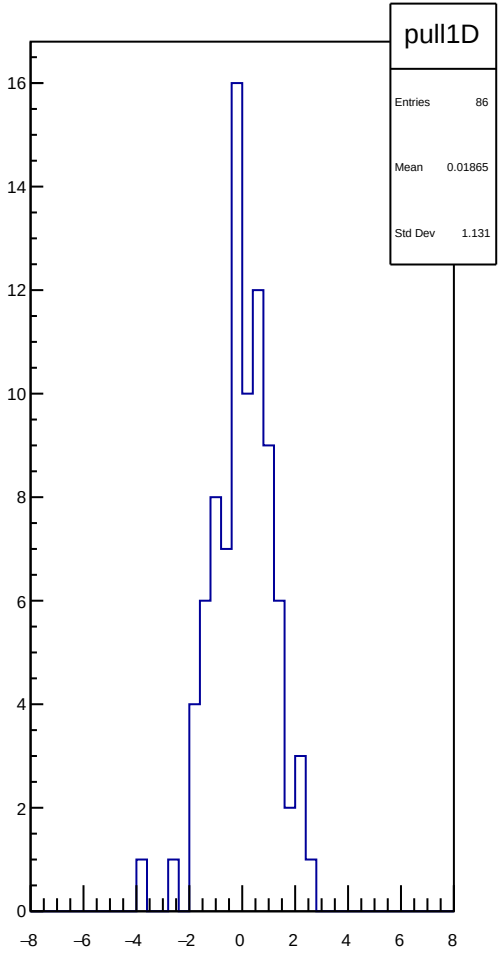

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2.612e+04 / 85
p0 63.78 ± 0.04954
80
75
70
65
60
55
50
45

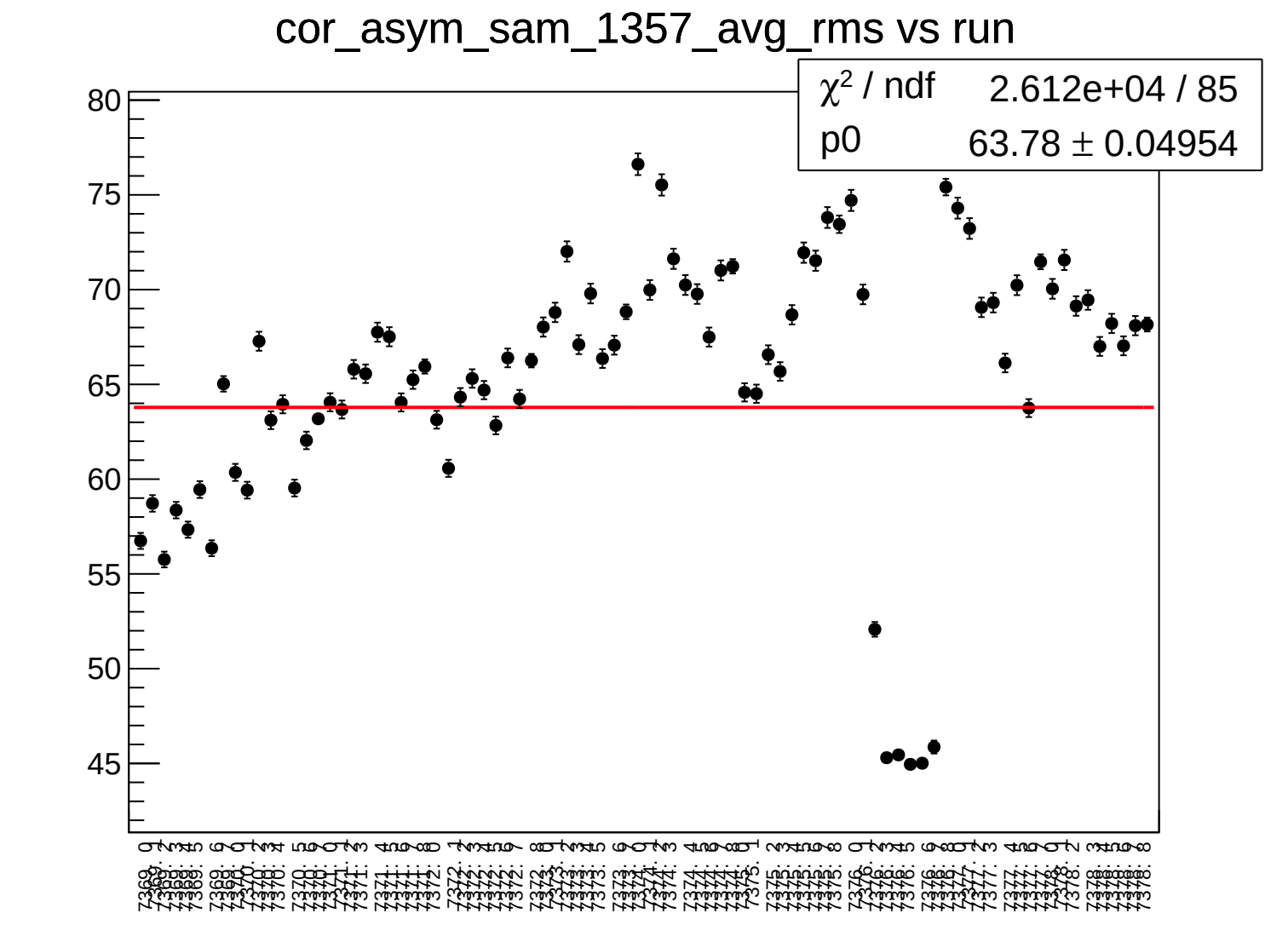

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 90.53 / 85
p0 206.1 ± 375.6
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −133.4
Std Dev 0
3
2
1
0
−1
−2

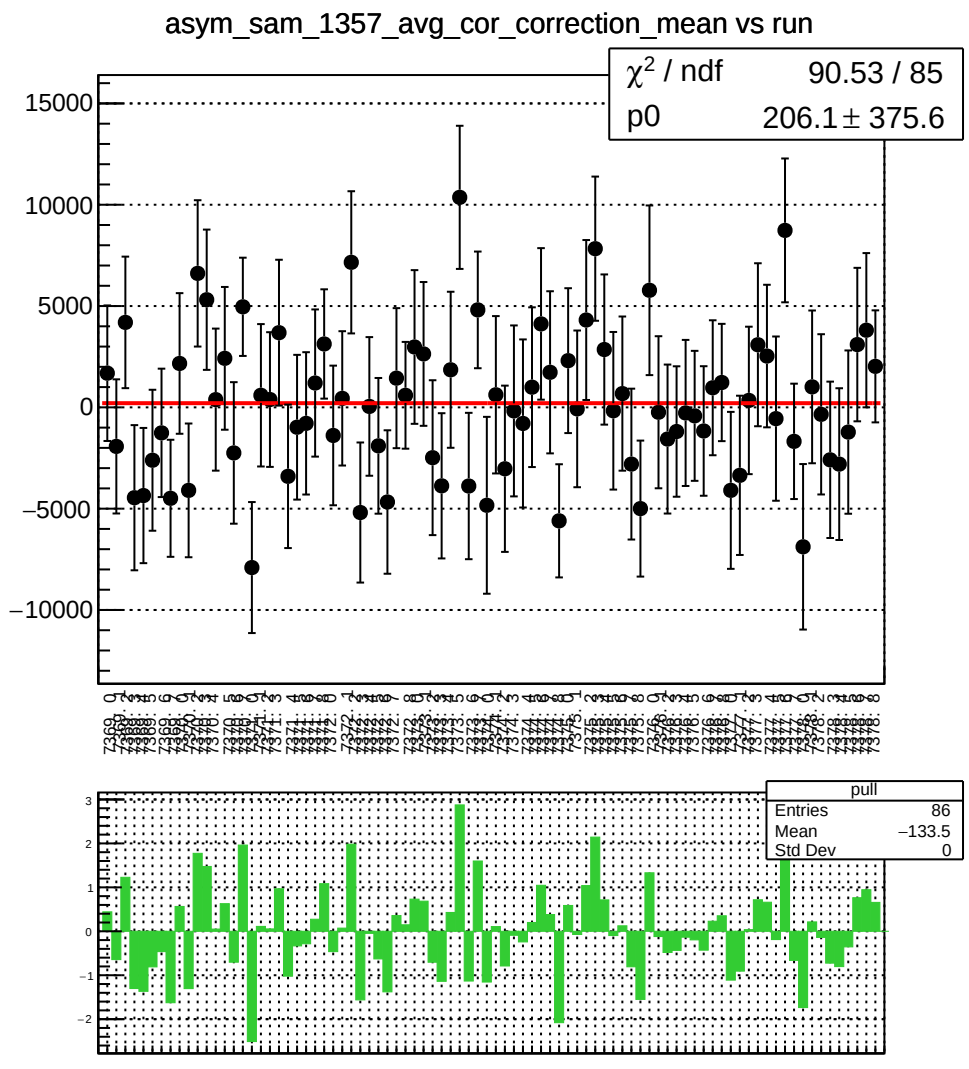

pull1D
Entries 86
Mean −0.00654
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

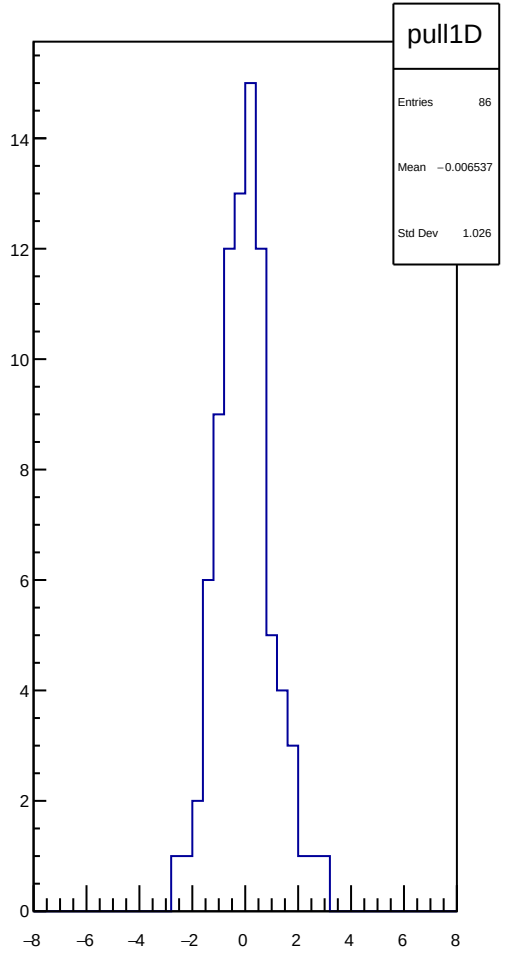

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 8346 / 85
p0 343.8 ± 0.2656
420
400
380
360
340
320
300

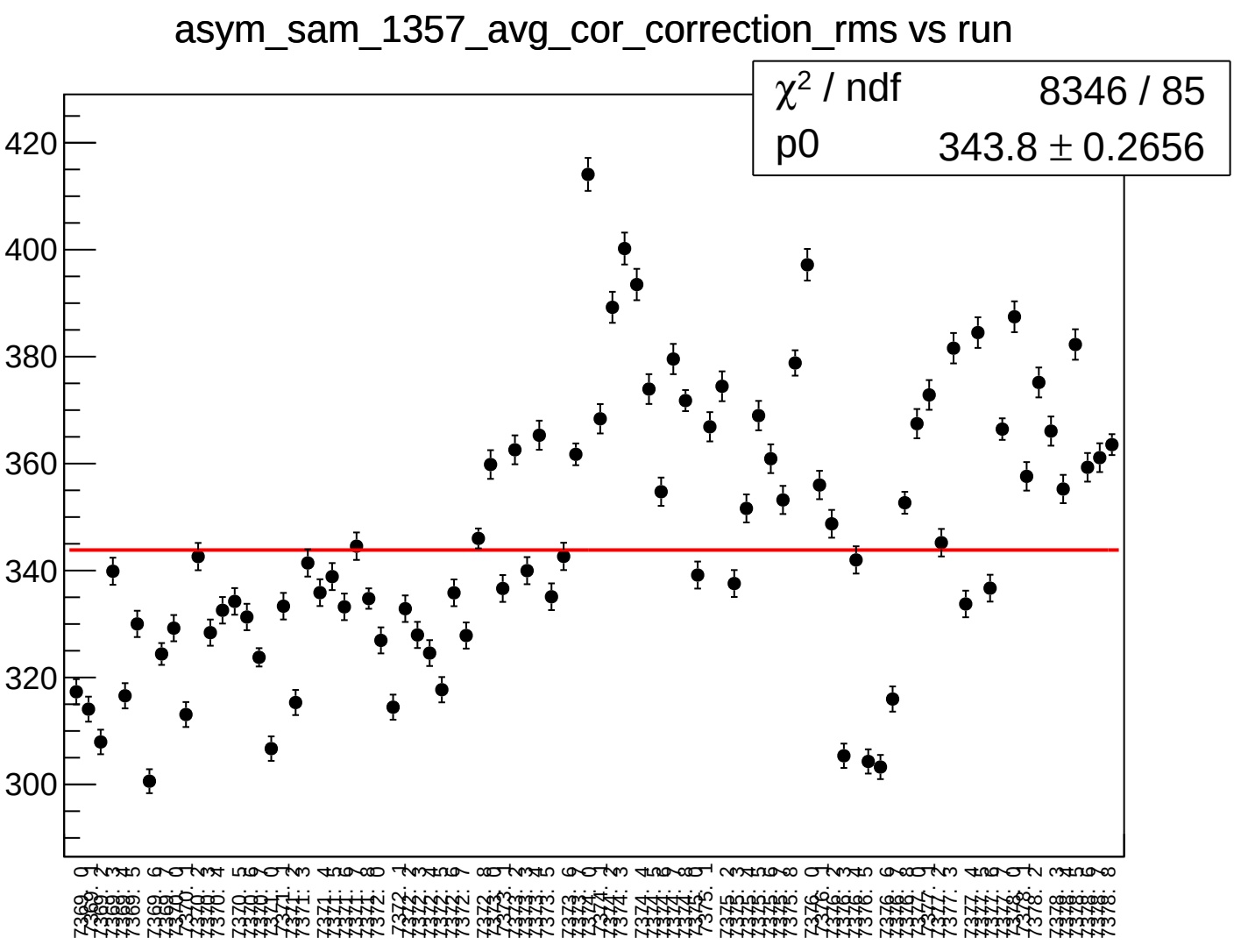

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 110.1 / 85
p0 143.4 ± 70.06
pull
Entries 86
Mean −6.943
Std Dev 0

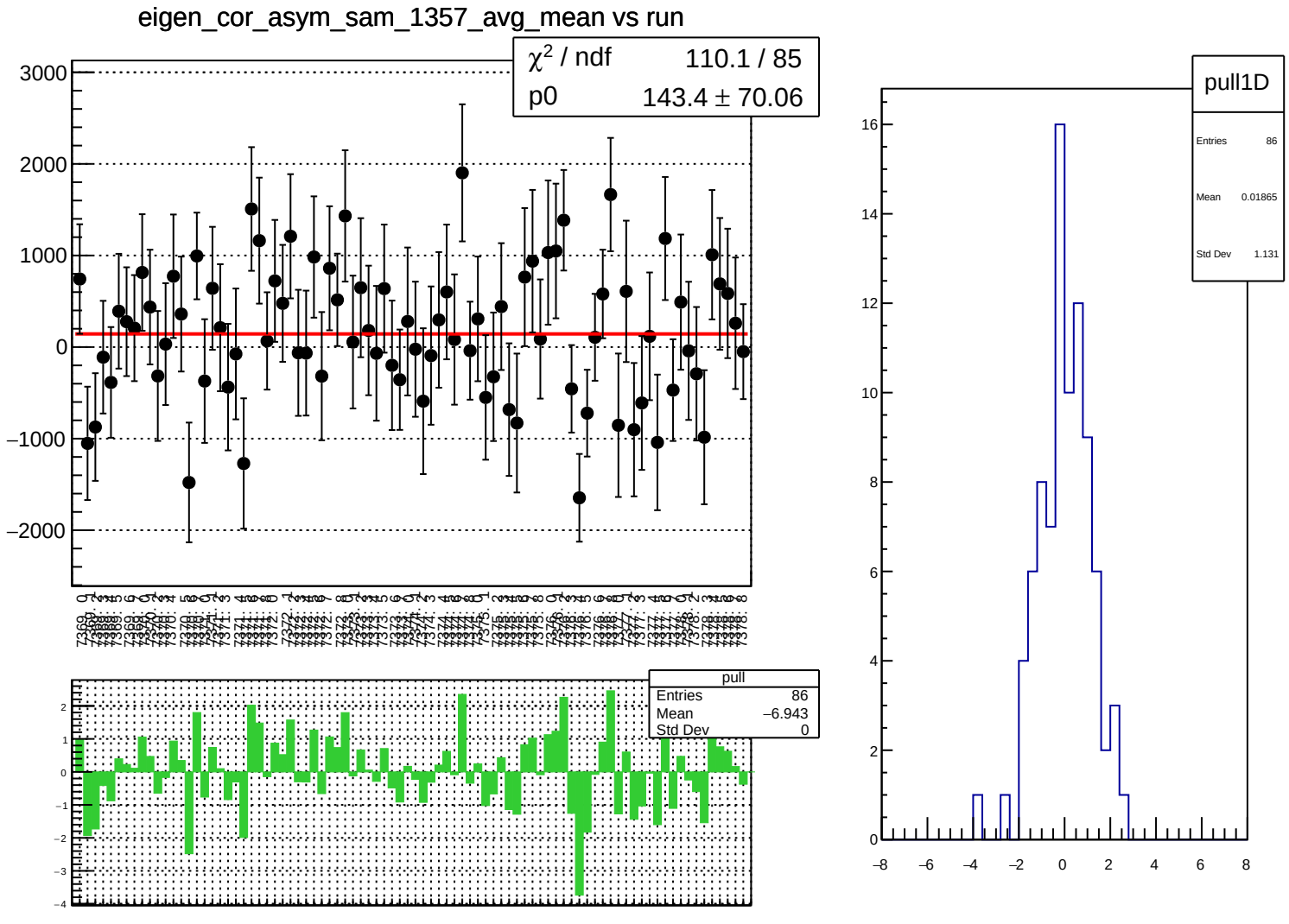

pull1D
Entries 86
Mean 0.01865
Std Dev 1.131

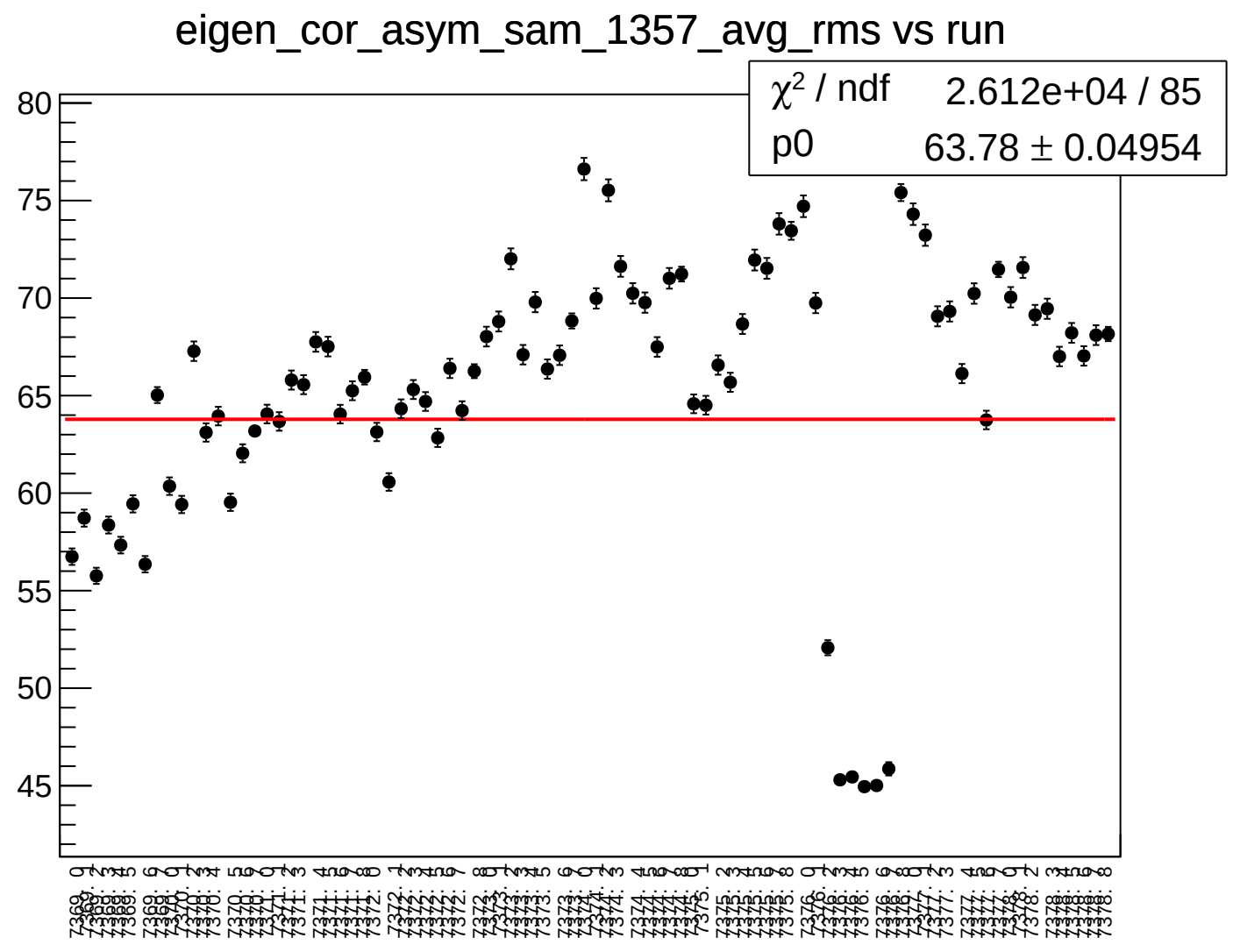

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.612e+04 / 85
p0 63.78 ± 0.04954
80
75
70
65
60
55
50
45

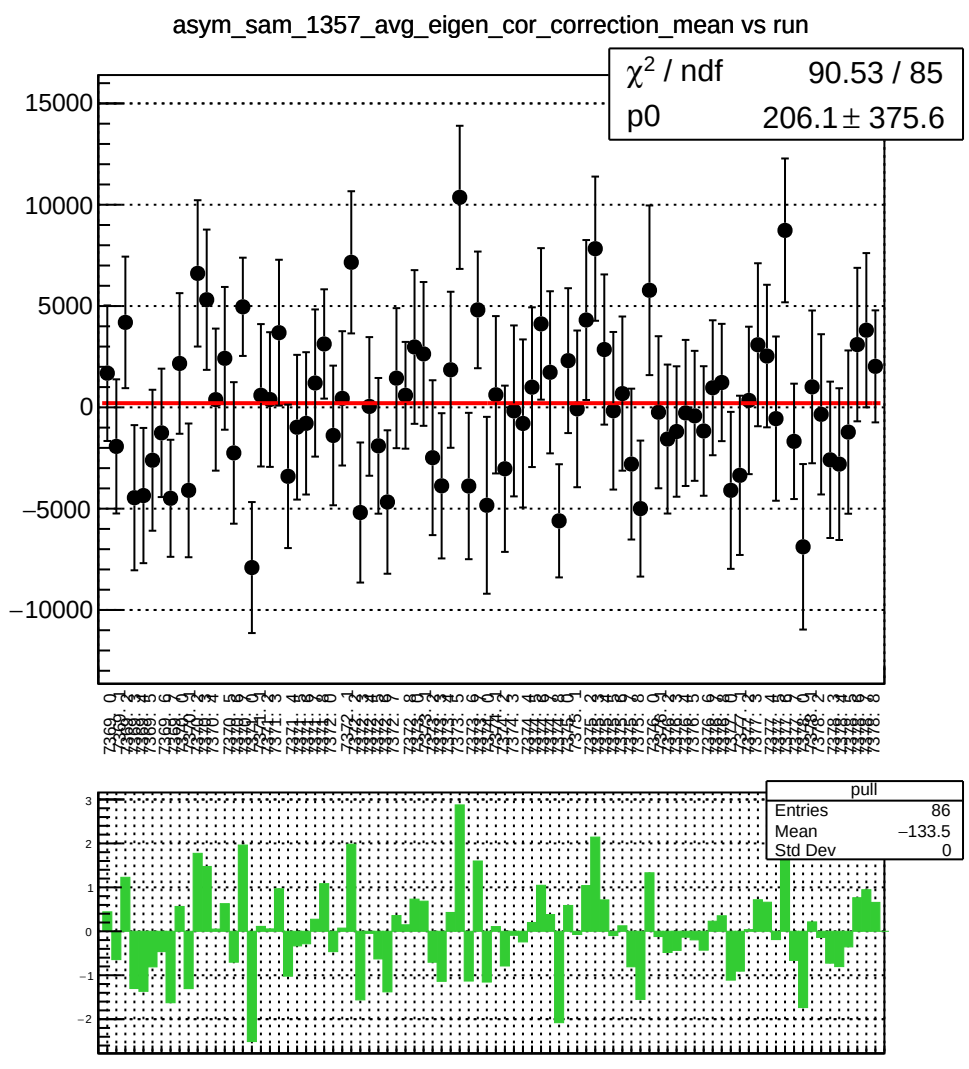

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 90.53 / 85
p0 206.1 ± 375.6
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −133.5
Std Dev 0
3
2
1
0
−1
−2

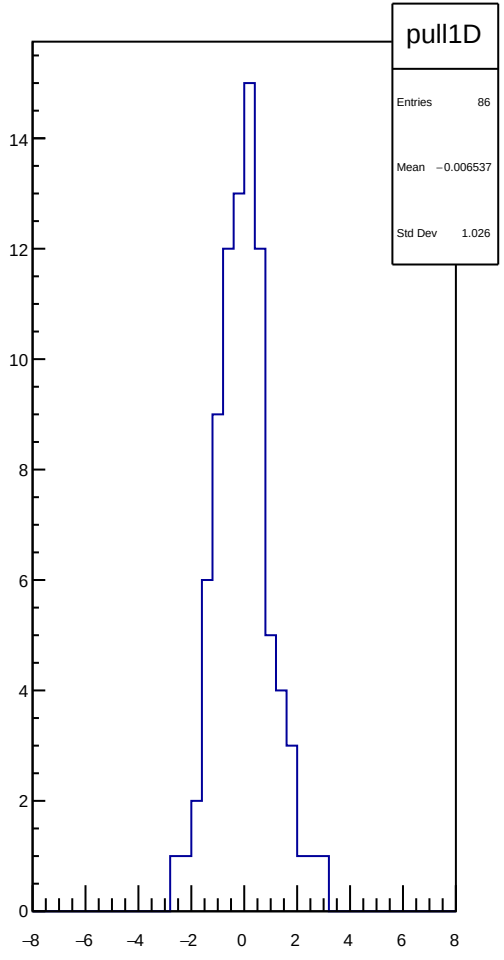

pull1D
Entries 86
Mean −0.006537
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

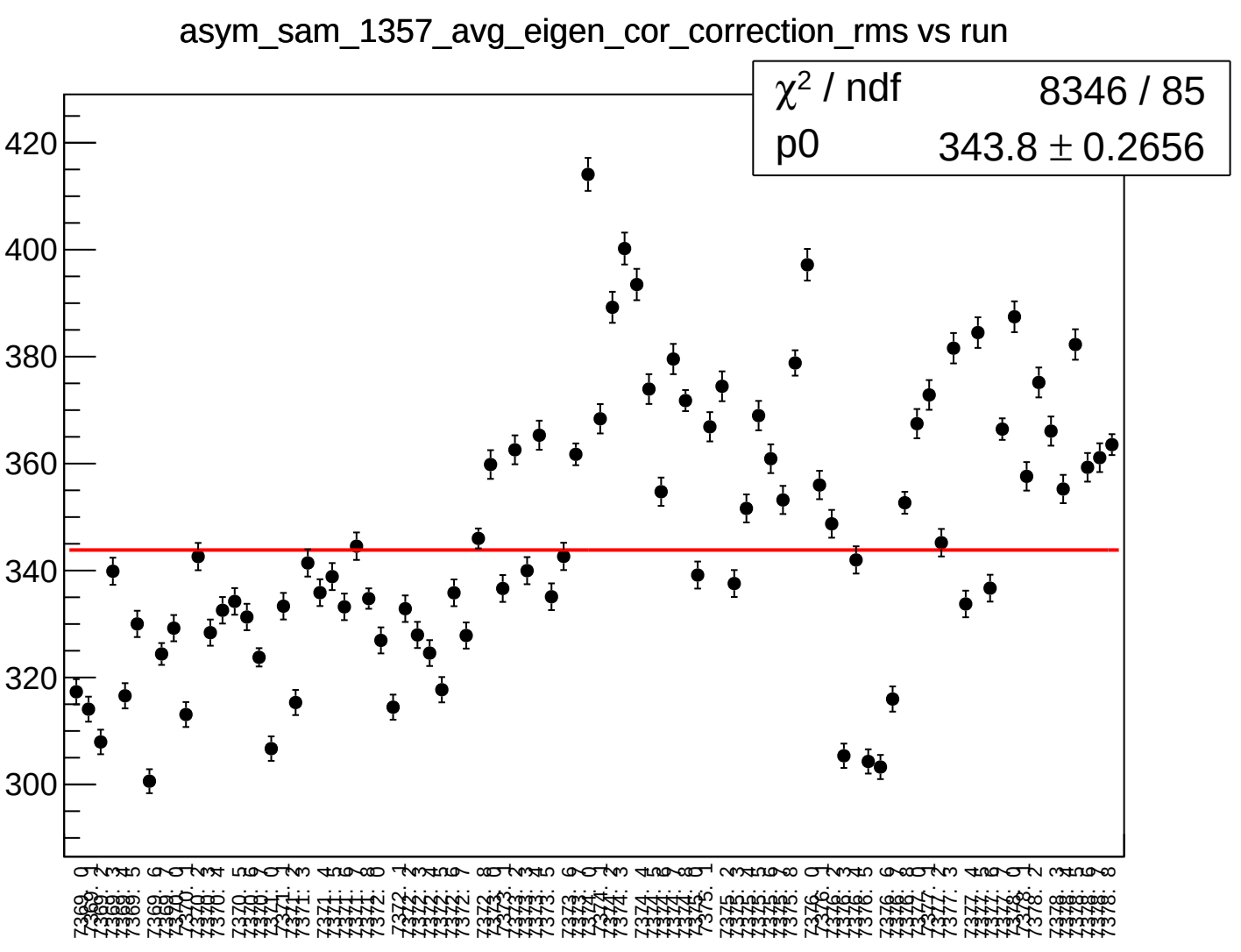

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 8346 / 85
p0 343.8 ± 0.2656
420
400
380
360
340
320
300

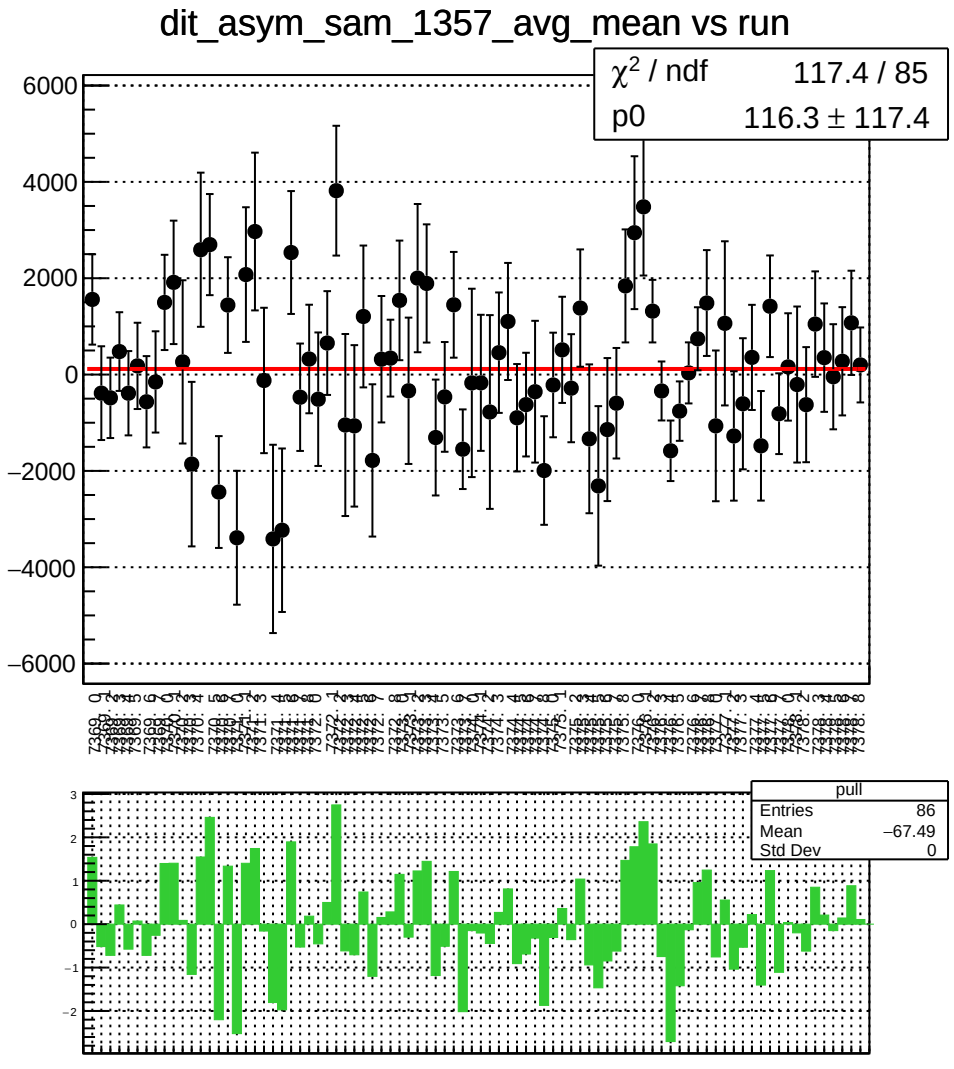

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 110.1 / 85
p0 143.4 ± 70.06
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −6.943
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean 0.01865
Std Dev 1.131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

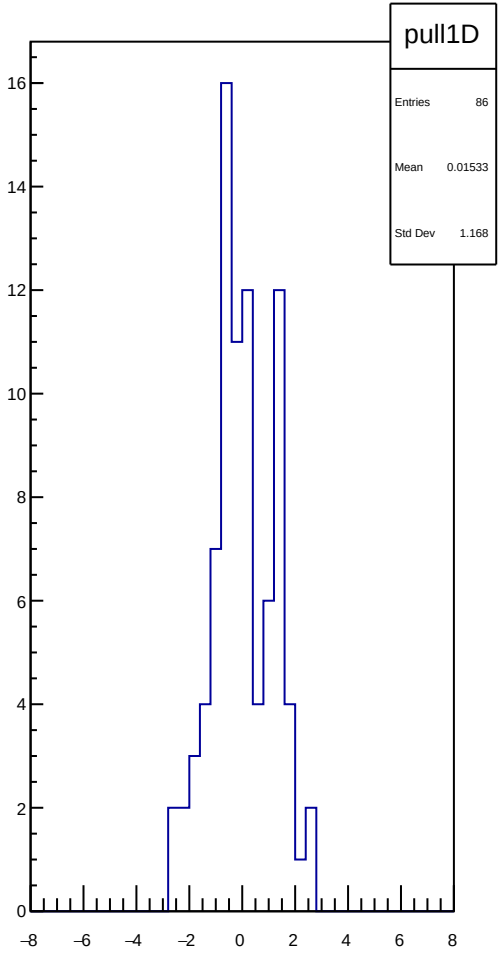

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.612e+04 / 85
p0 63.78 ± 0.04954
80
75
70
65
60
55
50
45

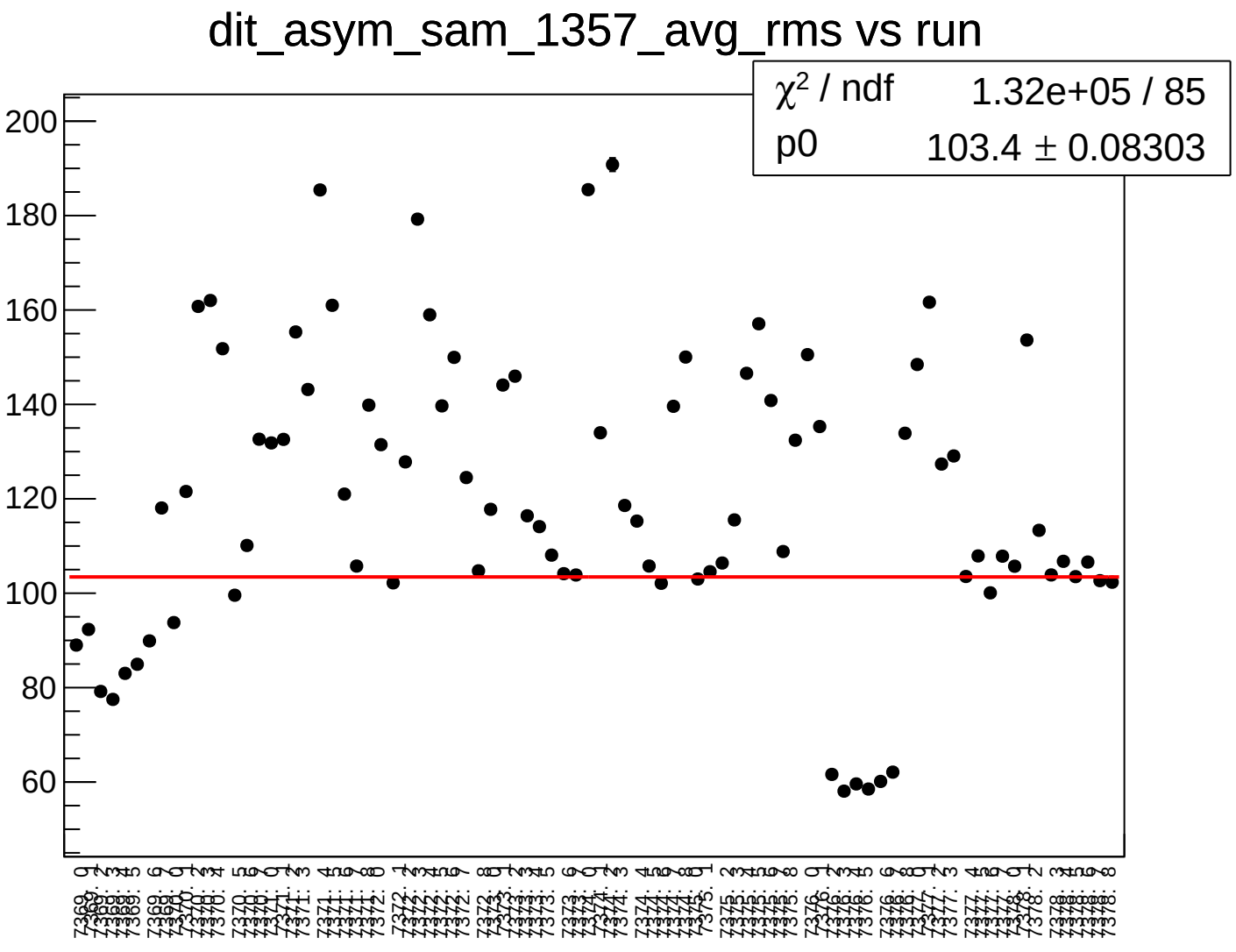

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.53 / 85
p0 206.1 ± 375.6
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −133.5
Std Dev 0
3
2
1
0
−1
−2

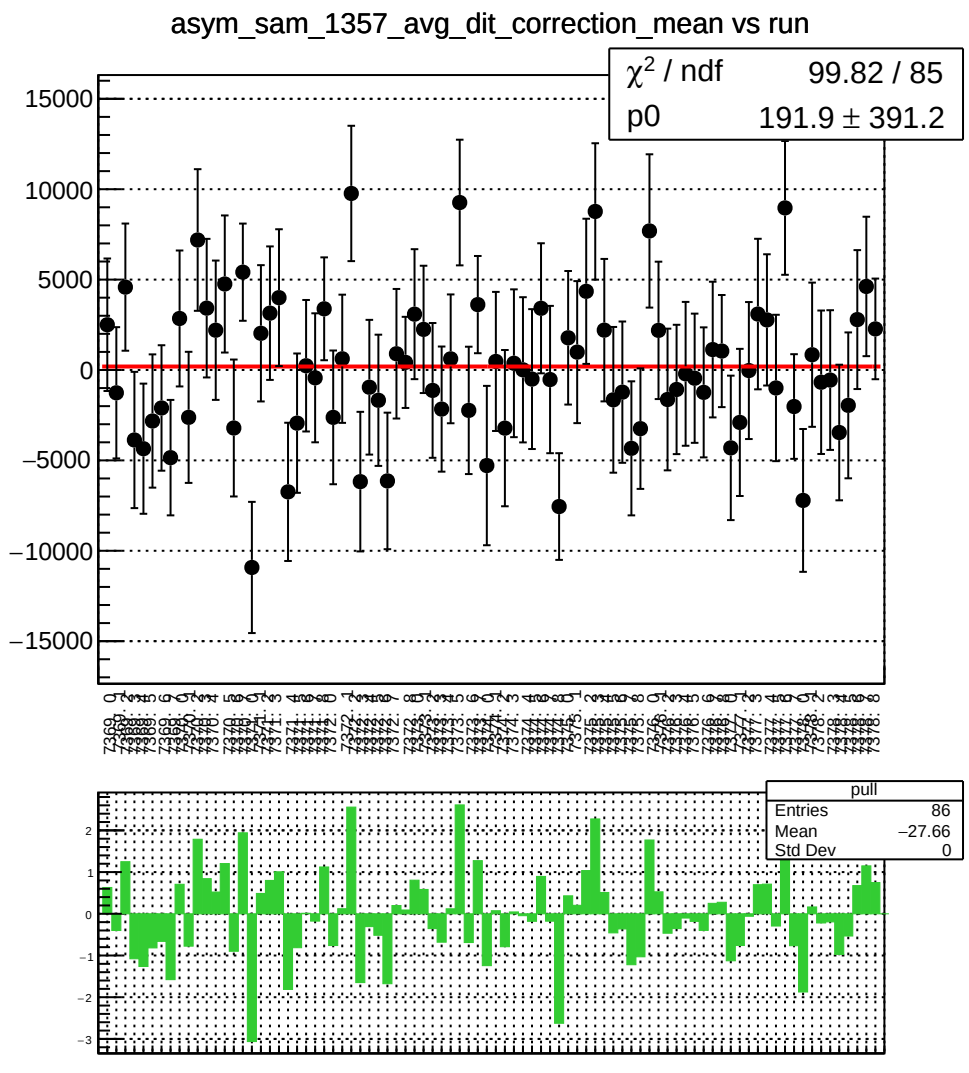

pull1D
Entries 86
Mean −0.006537
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

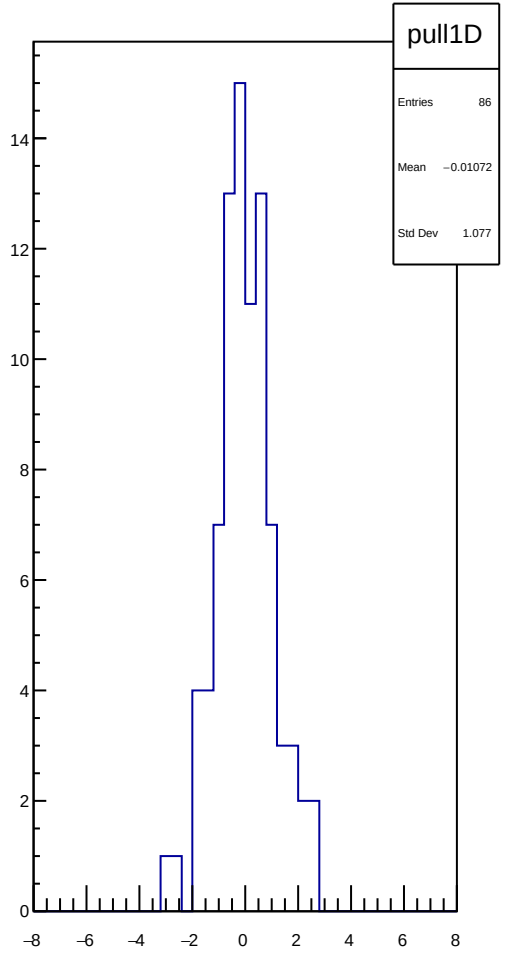

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 8346 / 85
p0 343.8 ± 0.2656
420
400
380
360
340
320
300

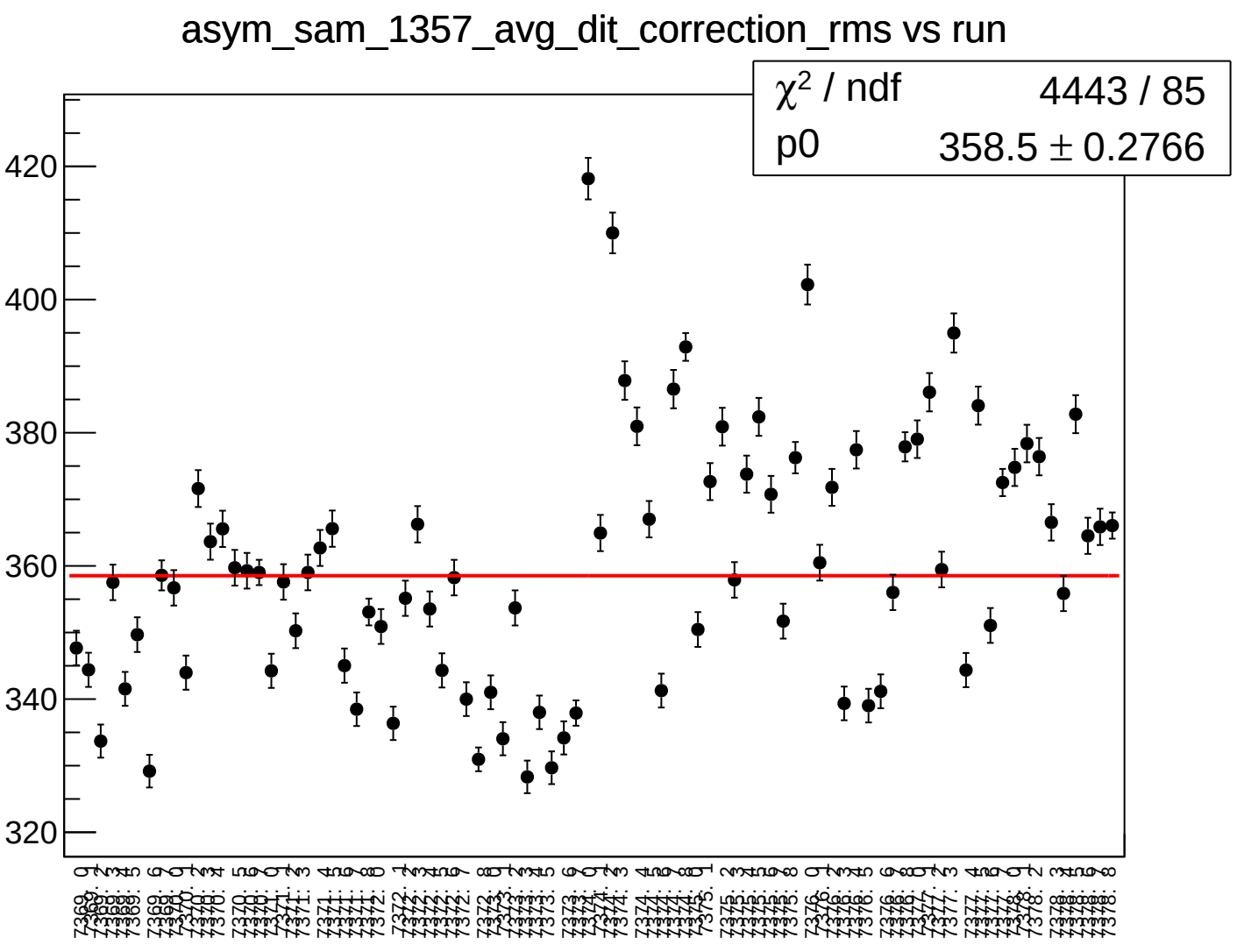

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 117.4 / 85
p0 116.3 ± 117.4
pull
Entries 86
Mean −67.49
Std Dev 0

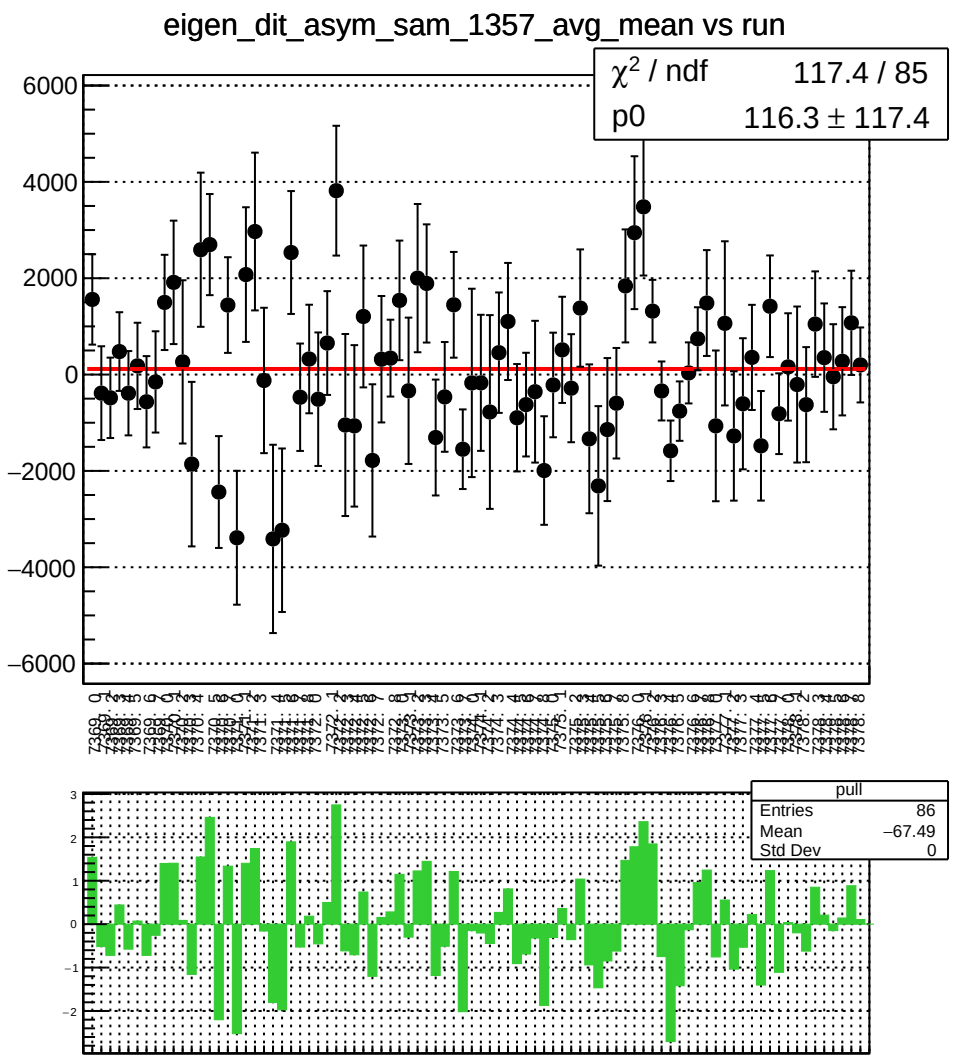

pull1D
Entries 86
Mean 0.01533
Std Dev 1.168

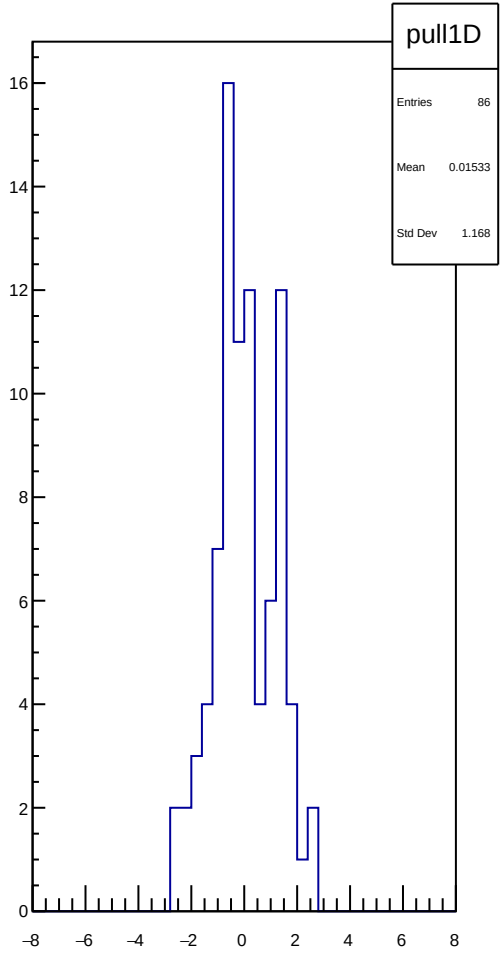

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.32e+05 / 85
p0 103.4 ± 0.08303
200
180
160
140
120
100
80
60

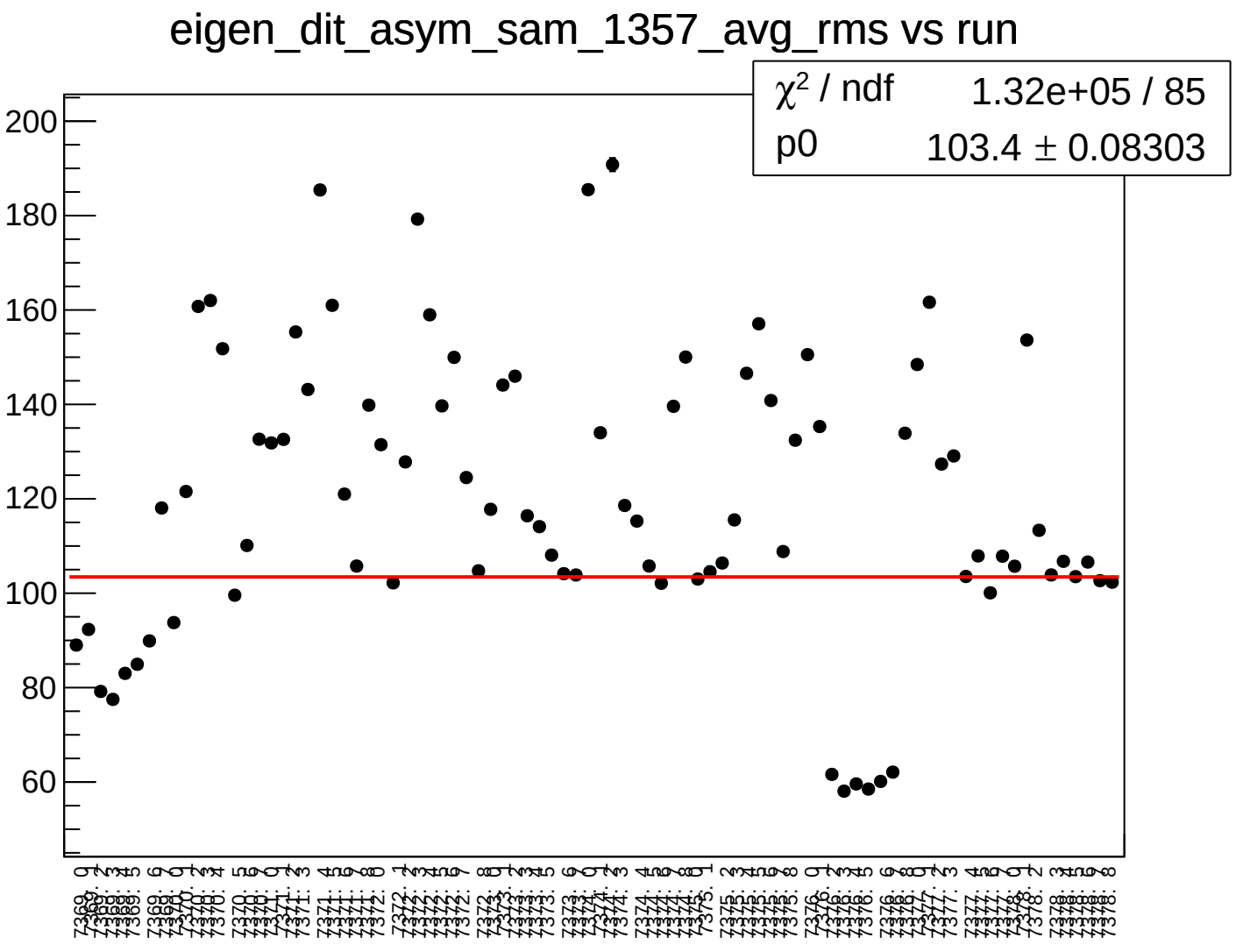

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 99.82 / 85
p0 191.9 ± 391.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −27.66
Std Dev 0
2
1
0
−1
−2
−3

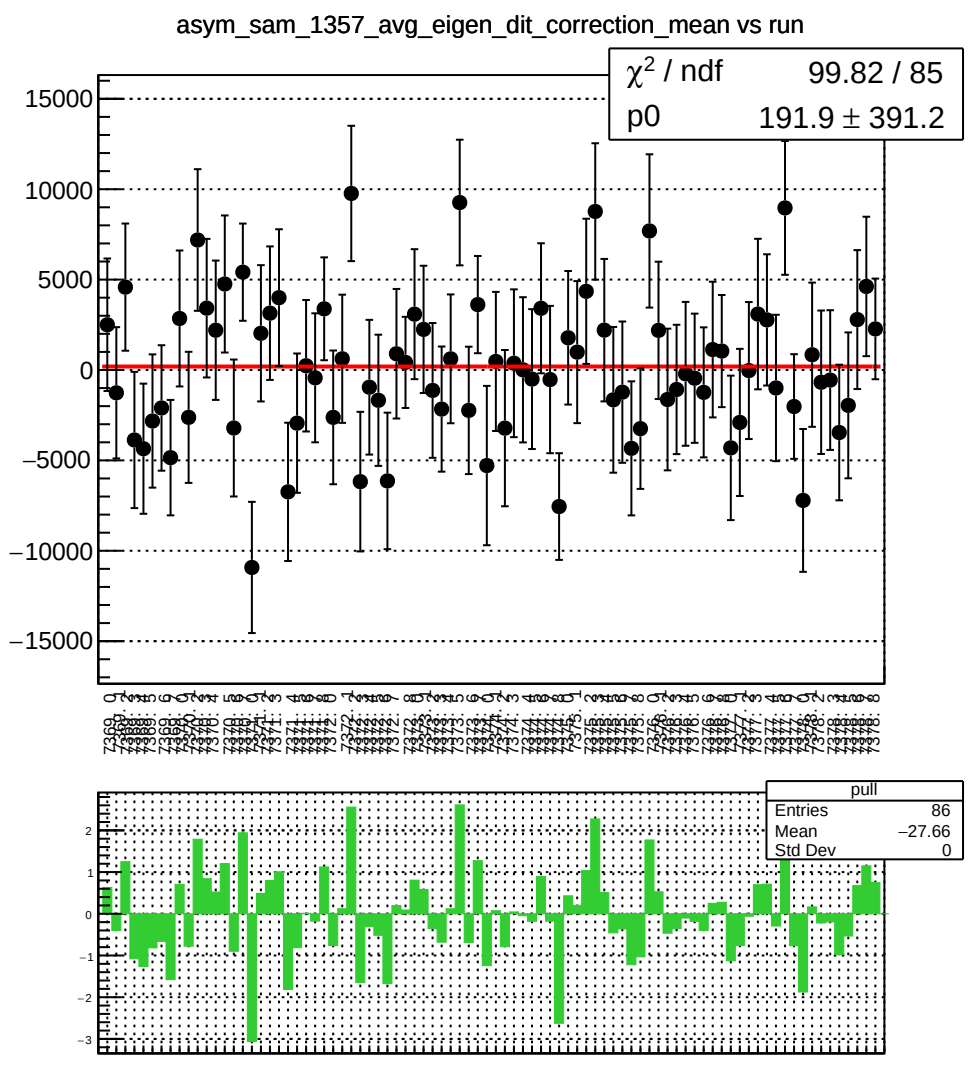

pull1D
Entries 86
Mean −0.01072
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

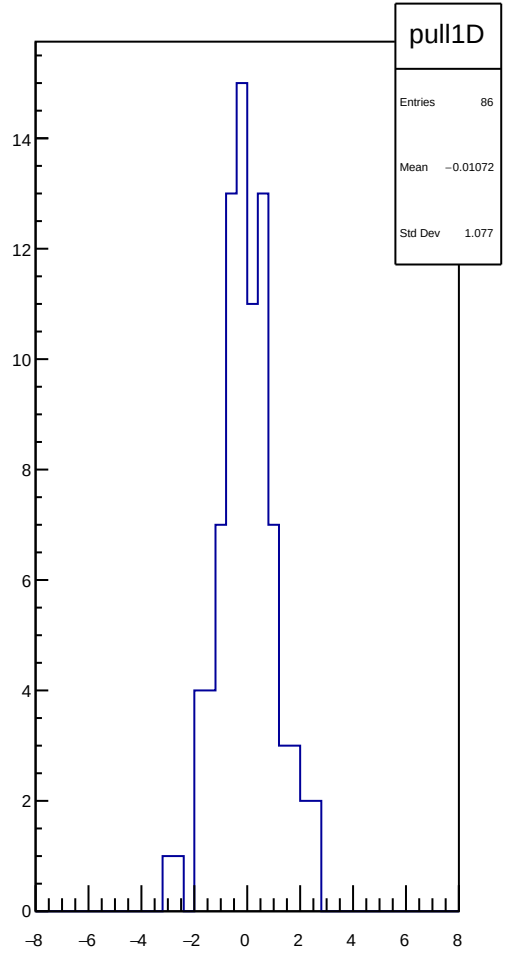

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 4443 / 85
p0 358.5 ± 0.2766
420
400
380
360
340
320

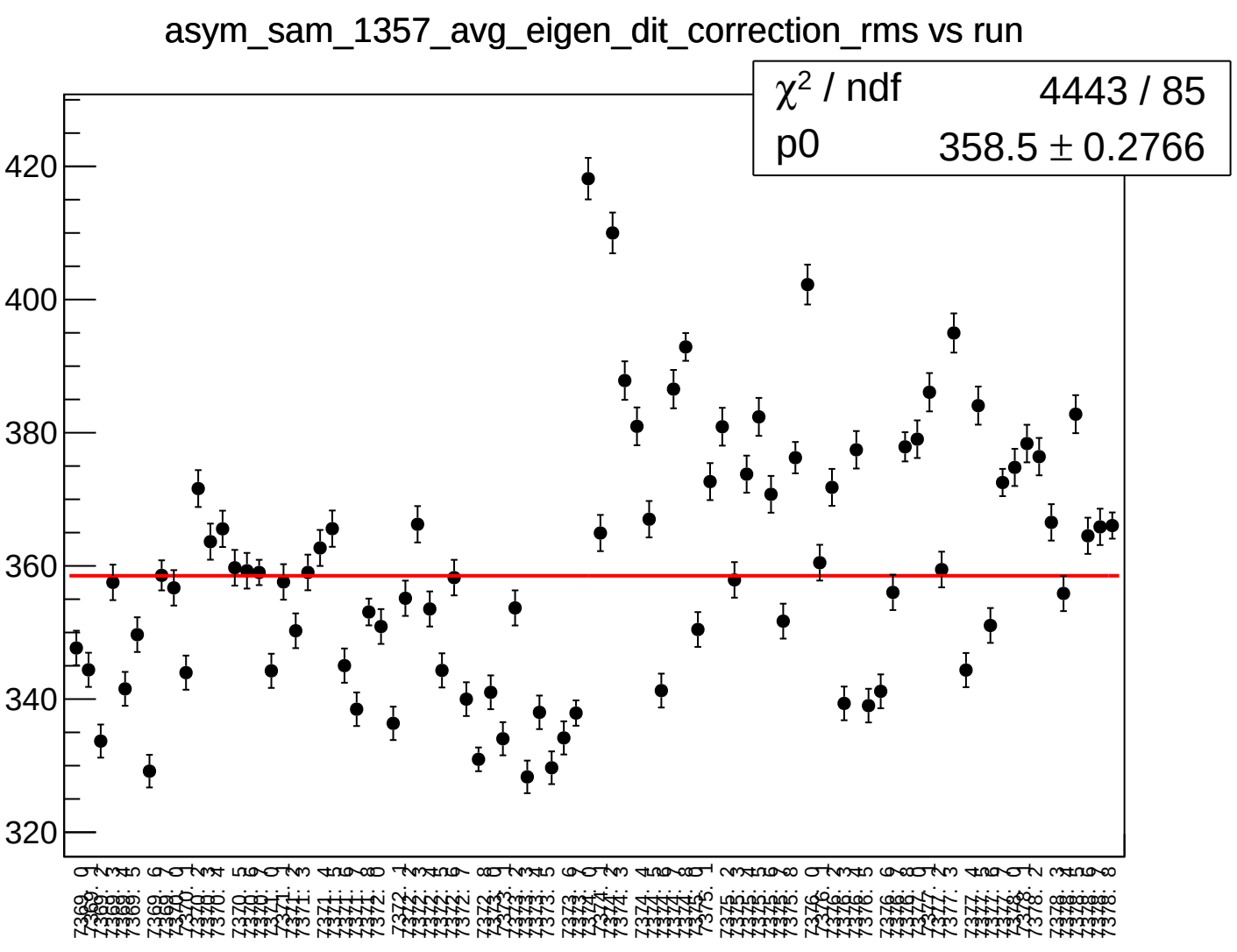

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 117.4 / 85
p0 116.3 ± 117.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −67.49
Std Dev 0
3
2
1
0
−1
−2

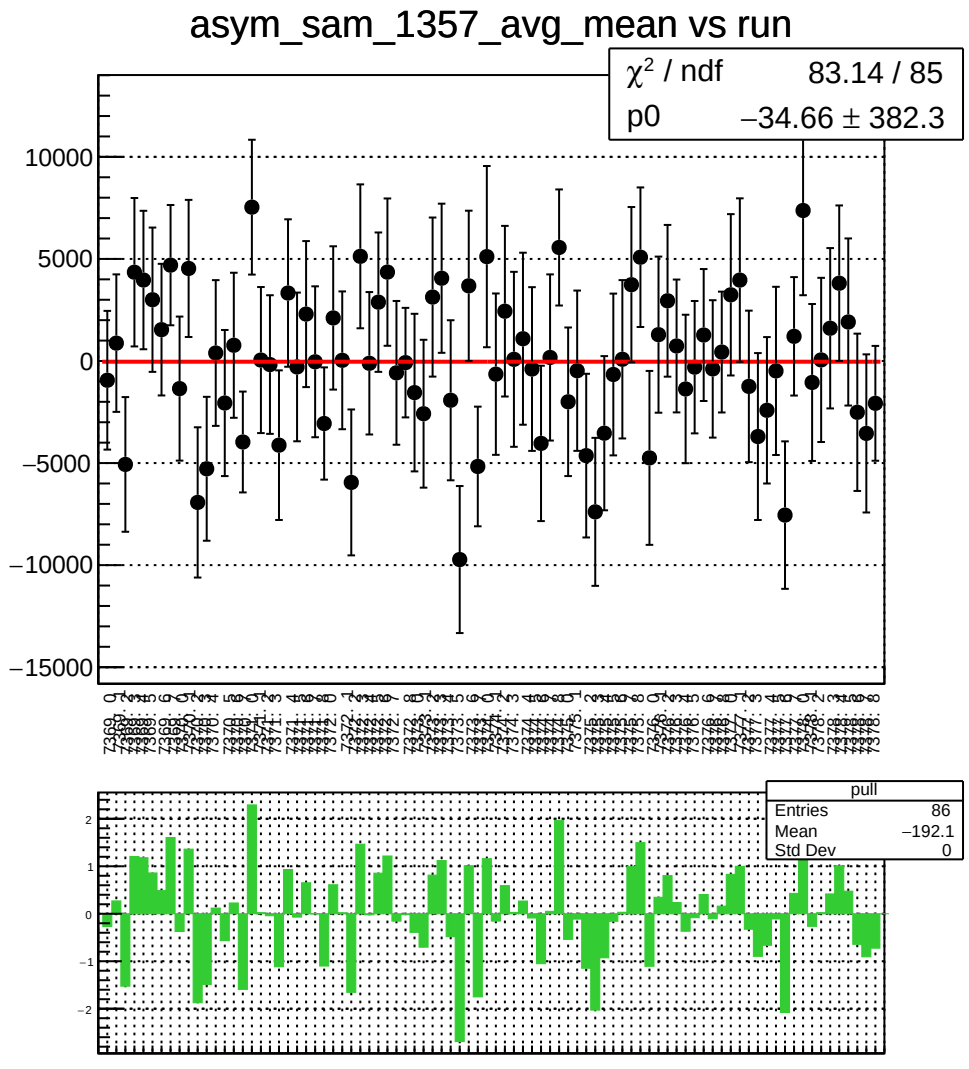

pull1D
Entries 86
Mean 0.01533
Std Dev 1.168
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

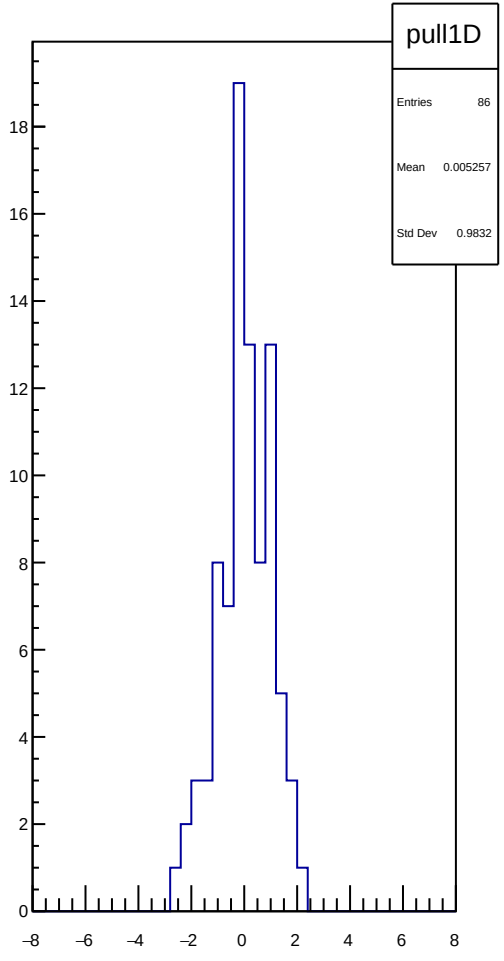

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.32e+05 / 85
p0 103.4 ± 0.08303
200
180
160
140
120
100
80
60

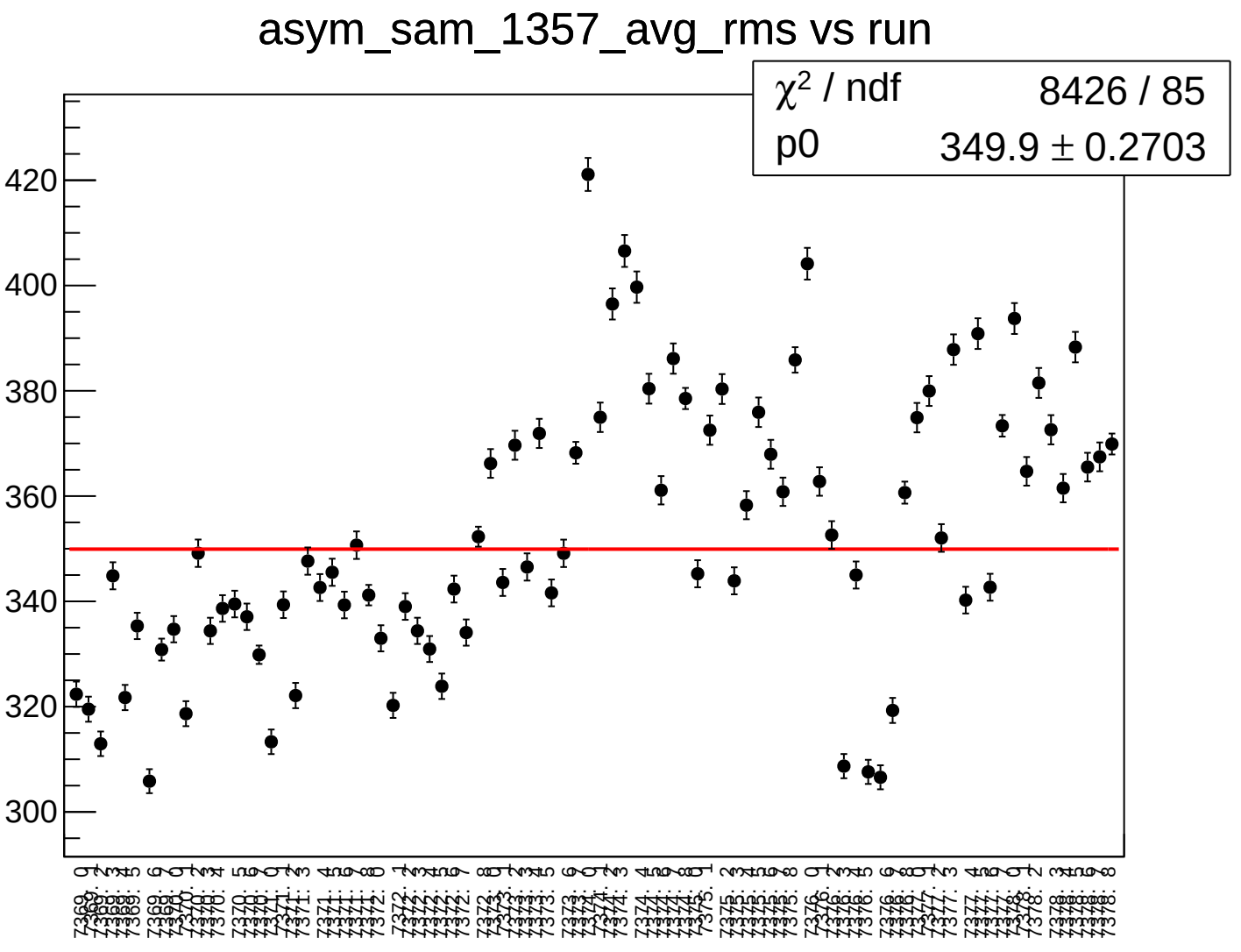

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.82 / 85
p0 191.9 ± 391.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −27.66
Std Dev 0
2
1
0
−1
−2
−3

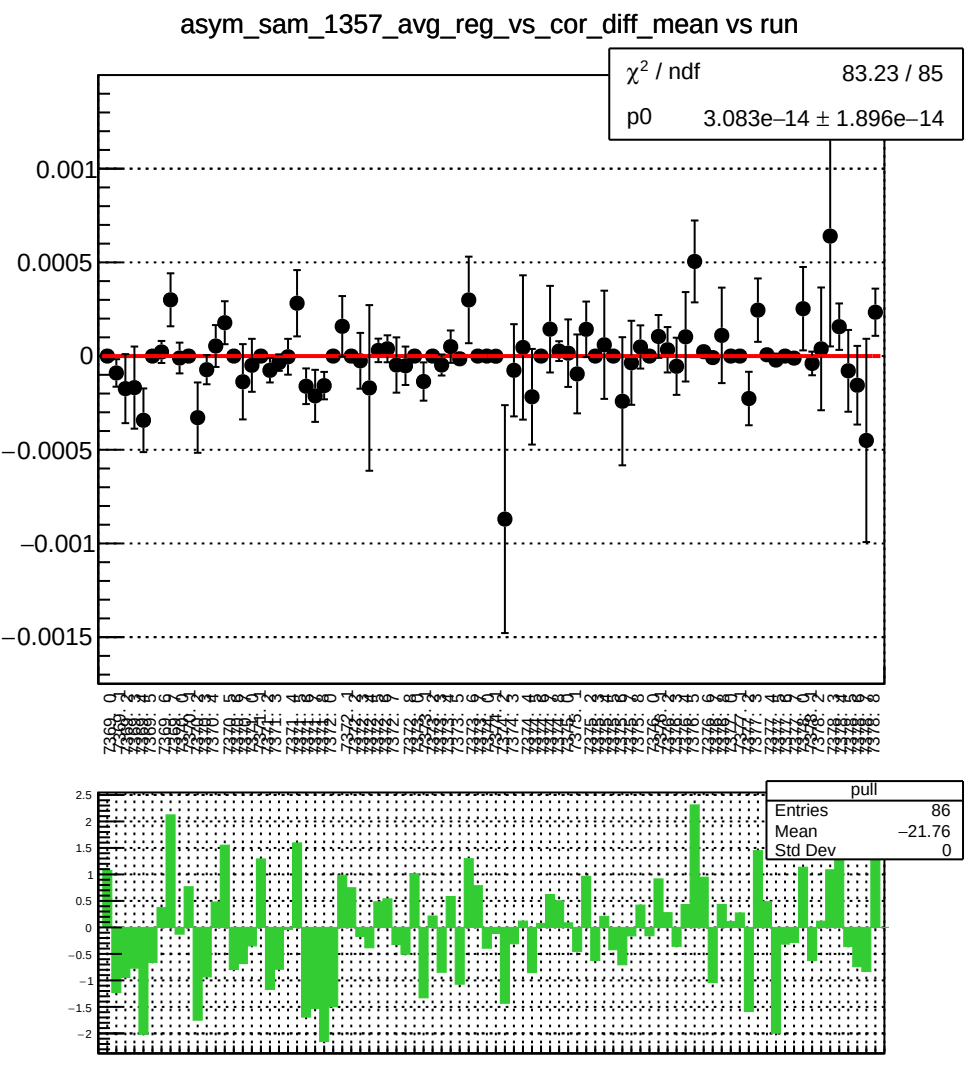

pull1D
Entries 86
Mean −0.01072
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

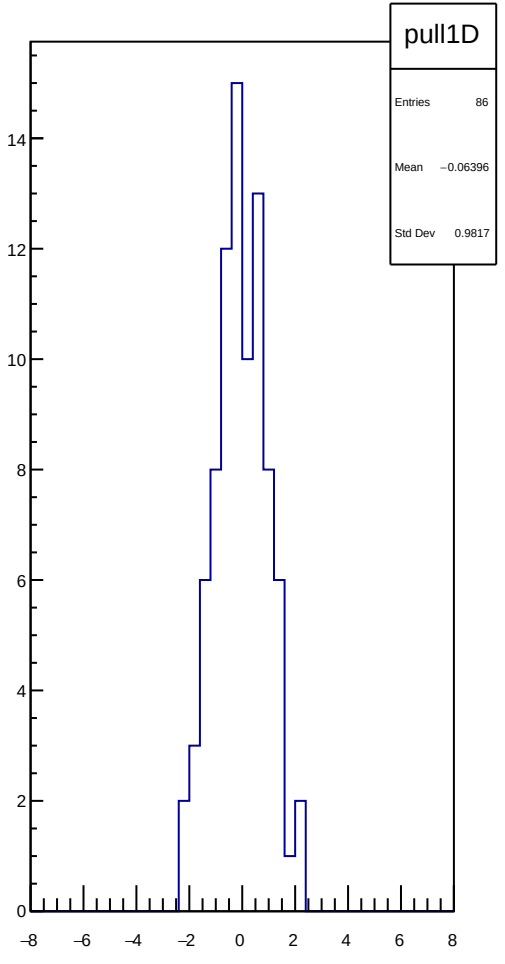

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 4443 / 85
p0 358.5 ± 0.2766
420
400
380
360
340
320

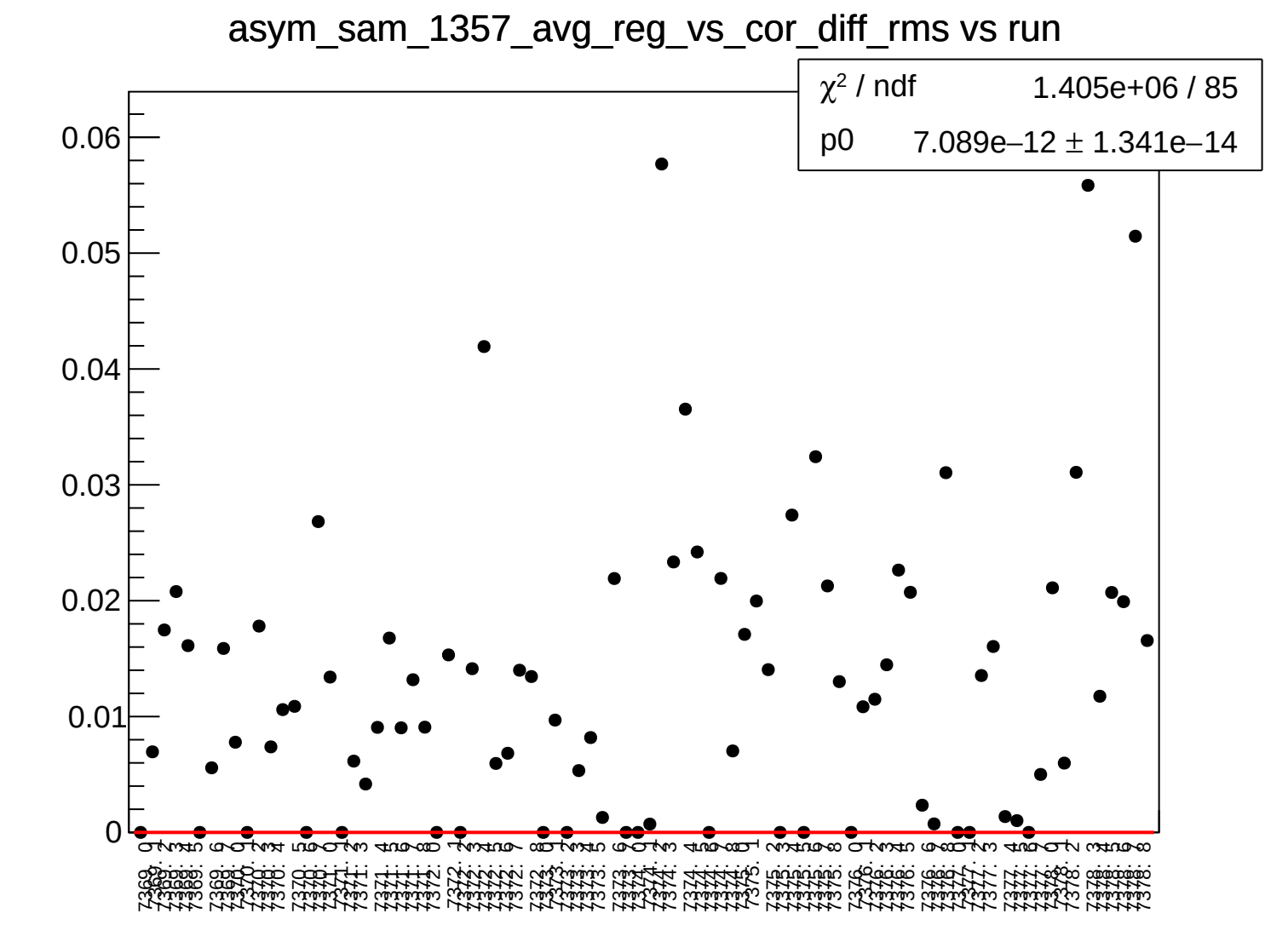

asym_sam_1357_avg_mean vs run
χ² / ndf 83.14 / 85
p0 −34.66 ± 382.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −192.1
Std Dev 0
2
1
0
−1
−2

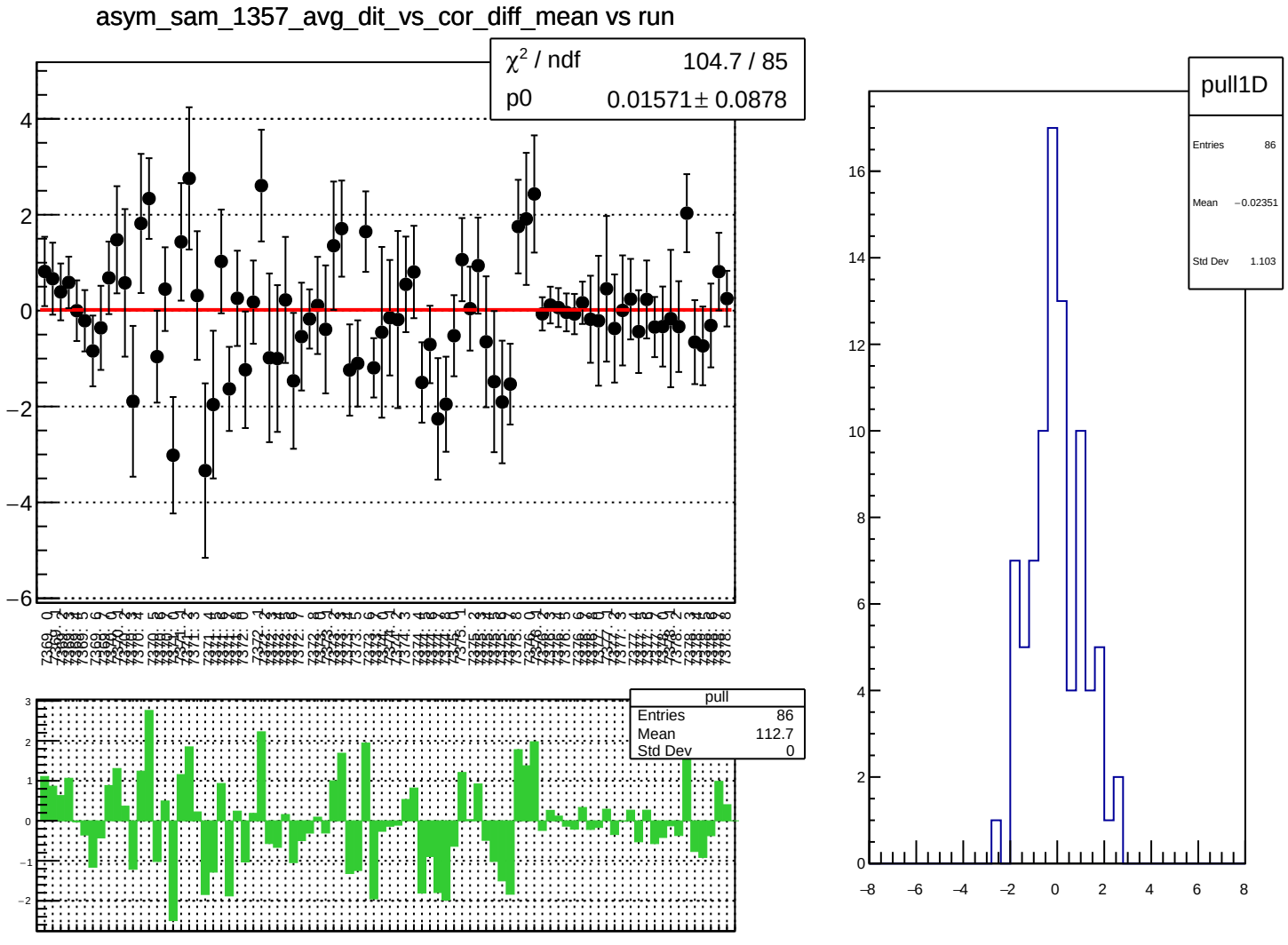

pull1D
Entries 86
Mean 0.005257
Std Dev 0.9832
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

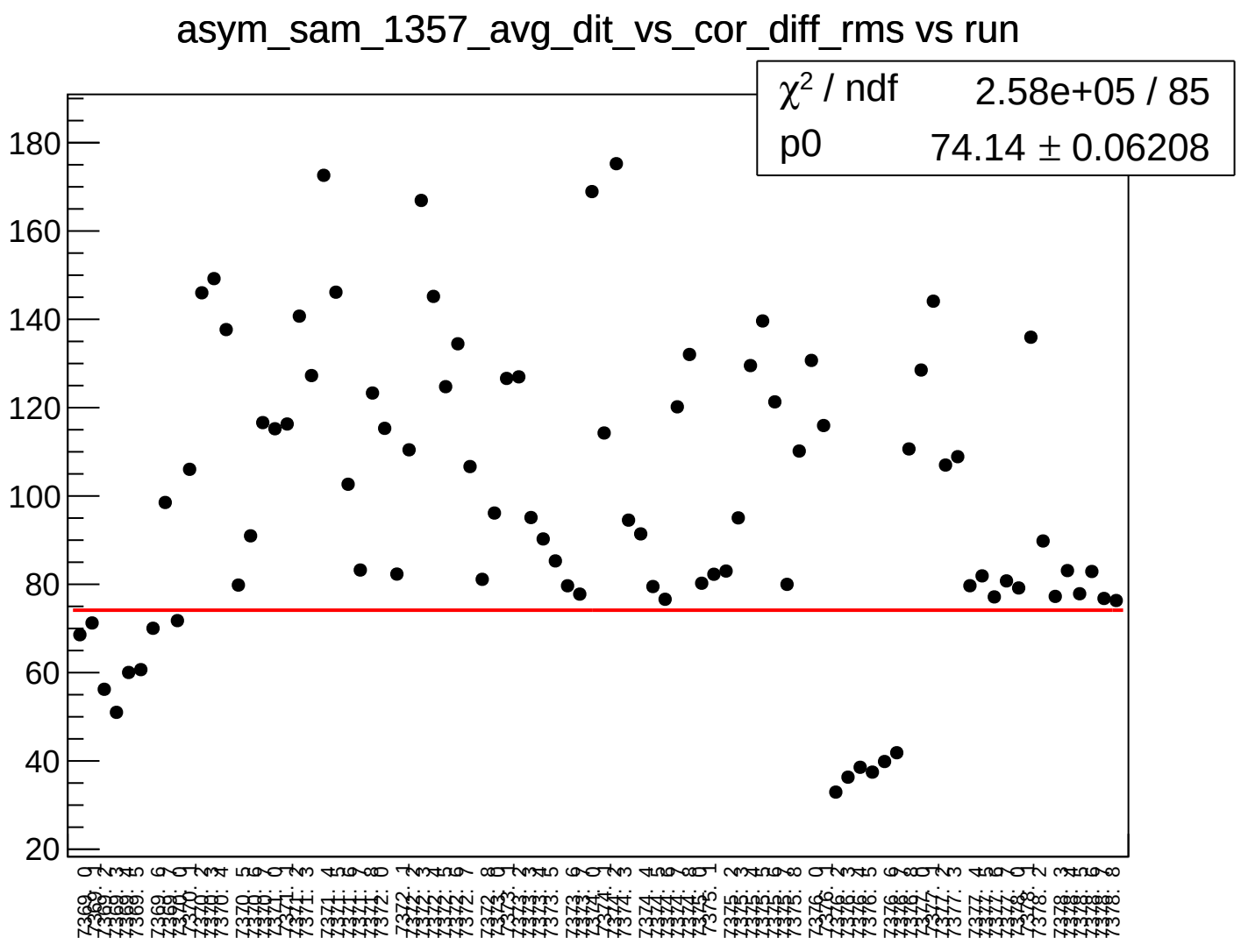

asym_sam_1357_avg_rms vs run
χ² / ndf 8426 / 85
p0 349.9 ± 0.2703
420
400
380
360
340
320
300

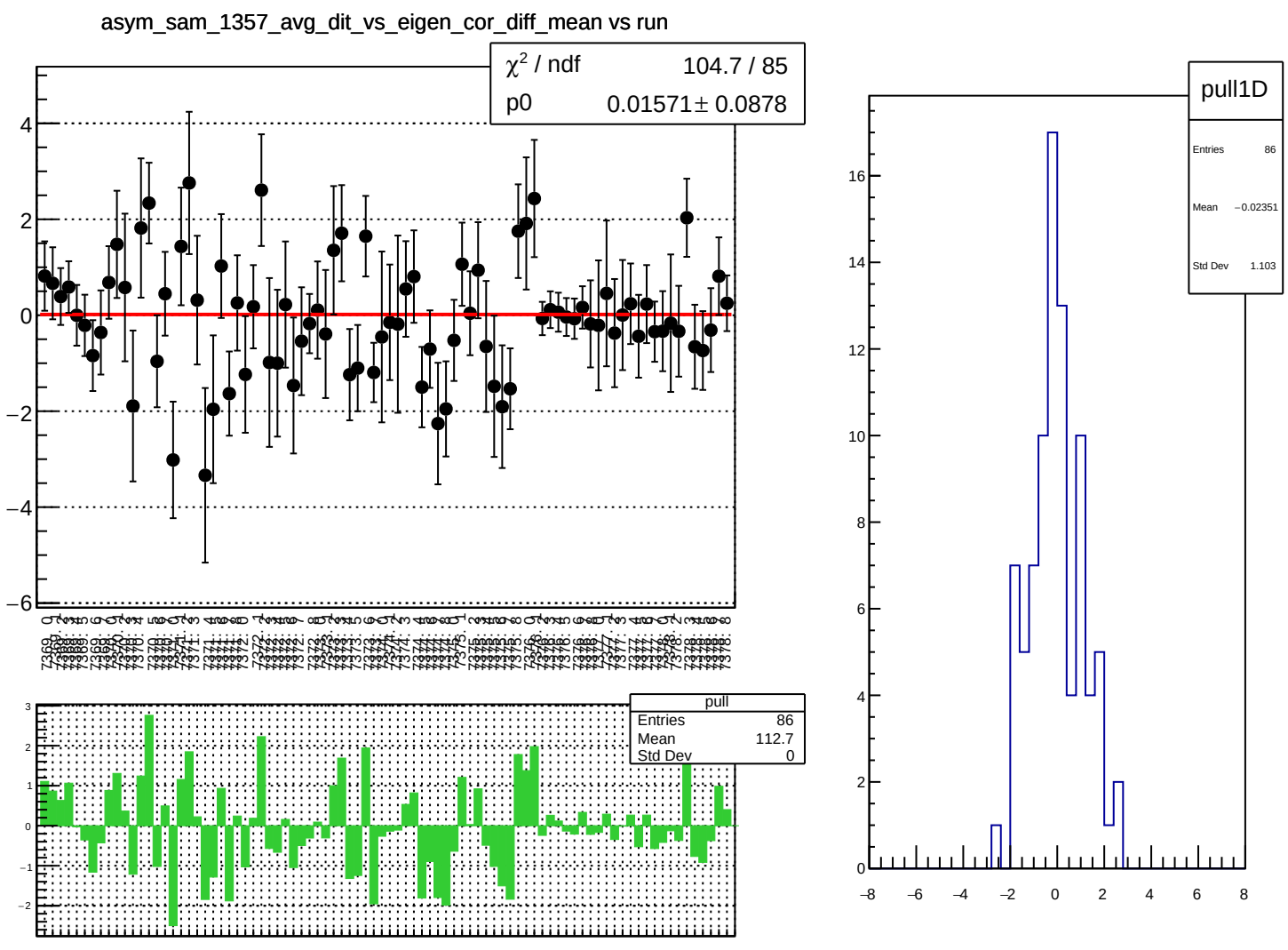

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.23 / 85
p0 3.083e−14 ± 1.896e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean −21.76
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

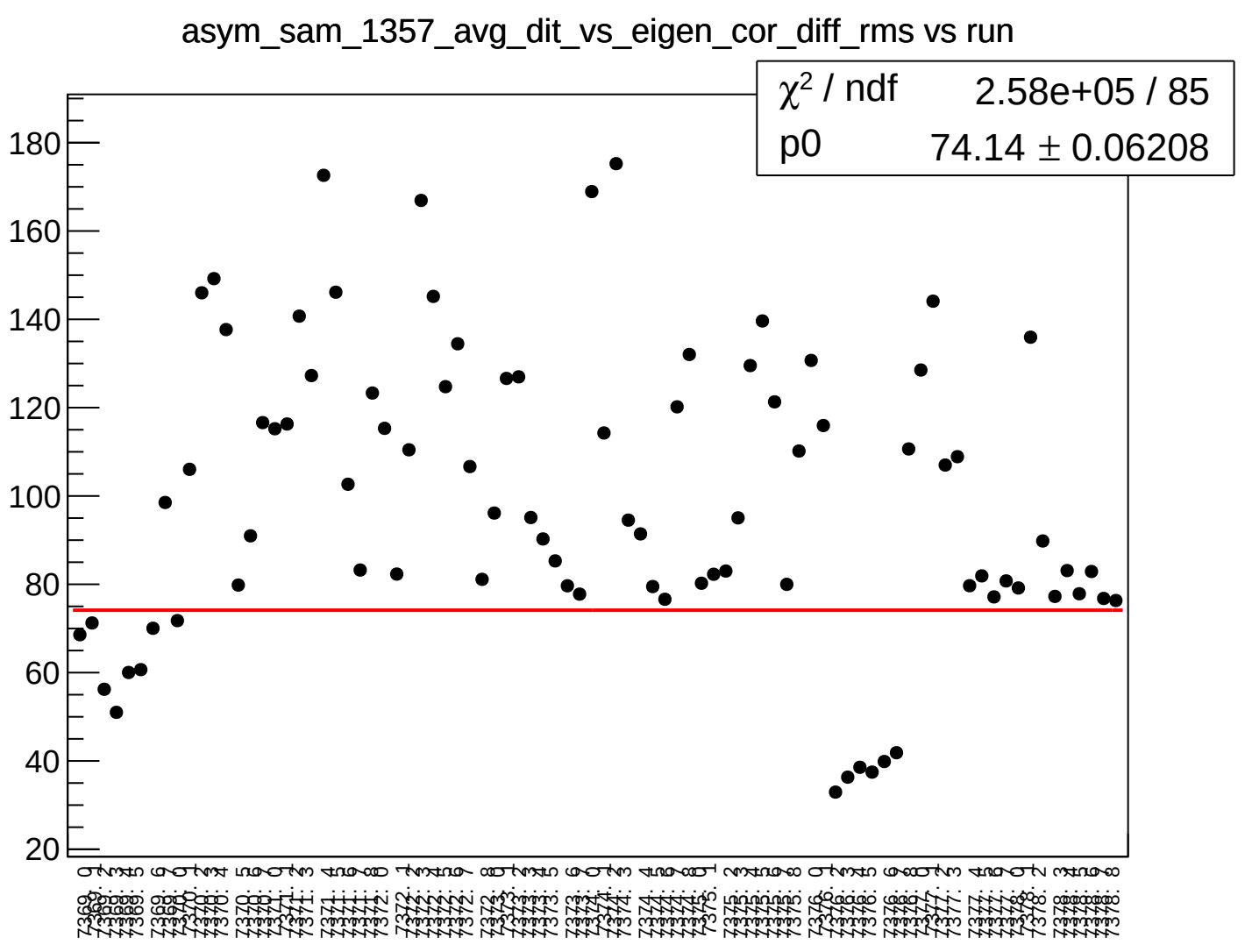

pull1D
Entries 86
Mean −0.06396
Std Dev 0.9817
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

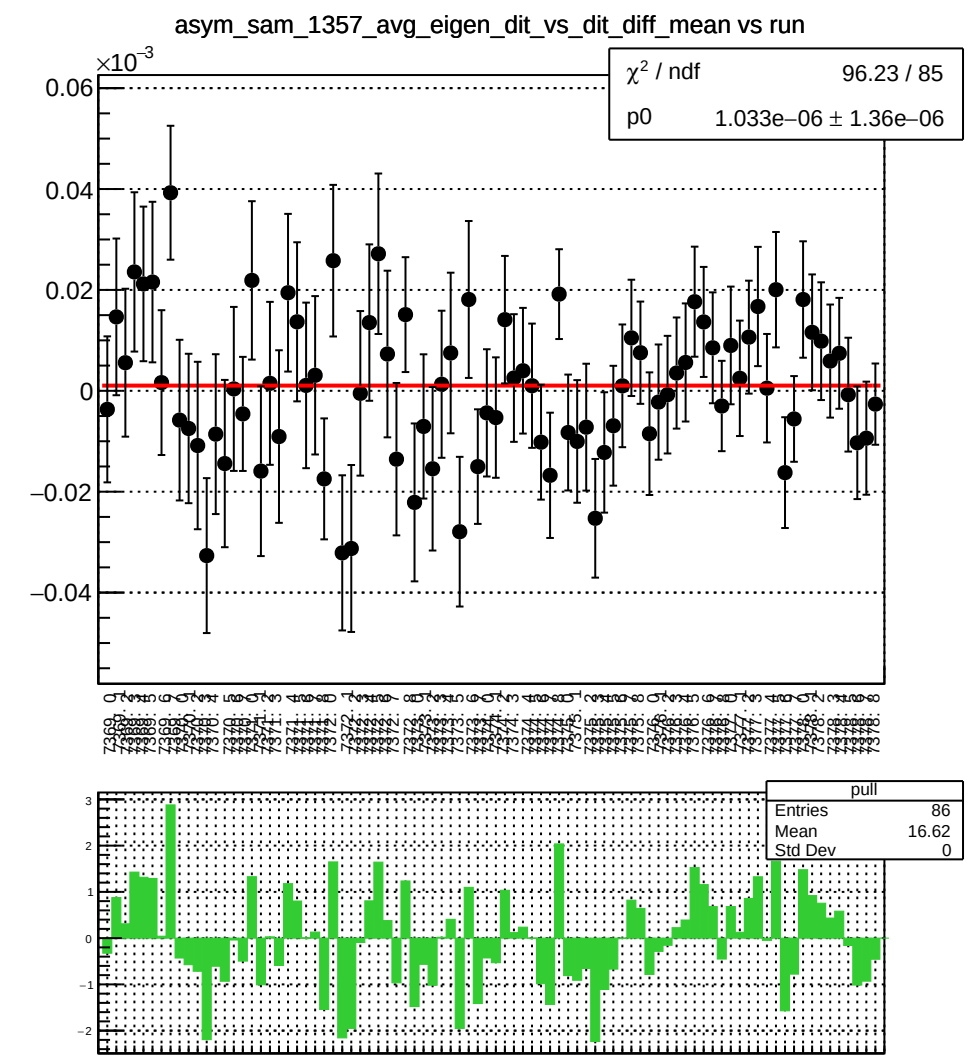

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.405e+06 / 85
p0 7.089e−12 ± 1.341e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

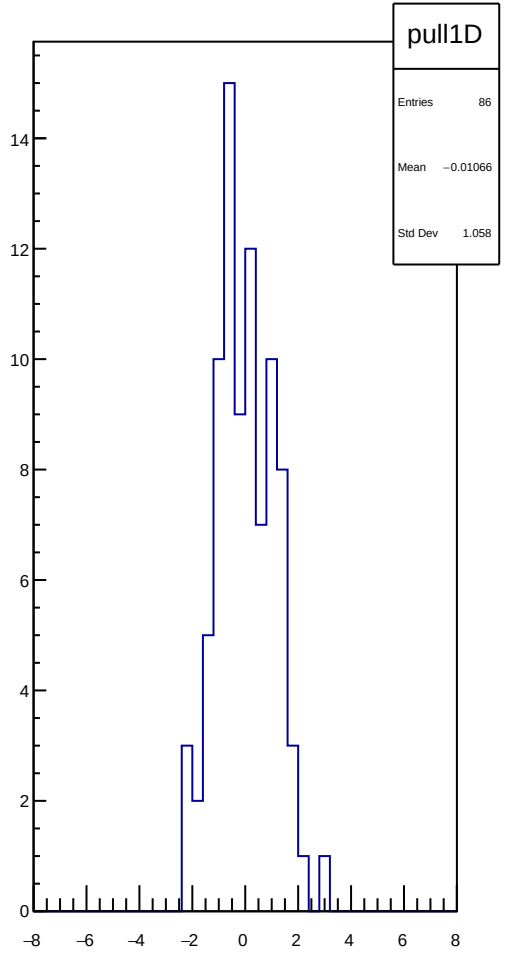

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 85
p0 0.01571 ± 0.0878
pull
Entries 86
Mean 112.7
Std Dev 0
pull1D
Entries 86
Mean −0.02351
Std Dev 1.103

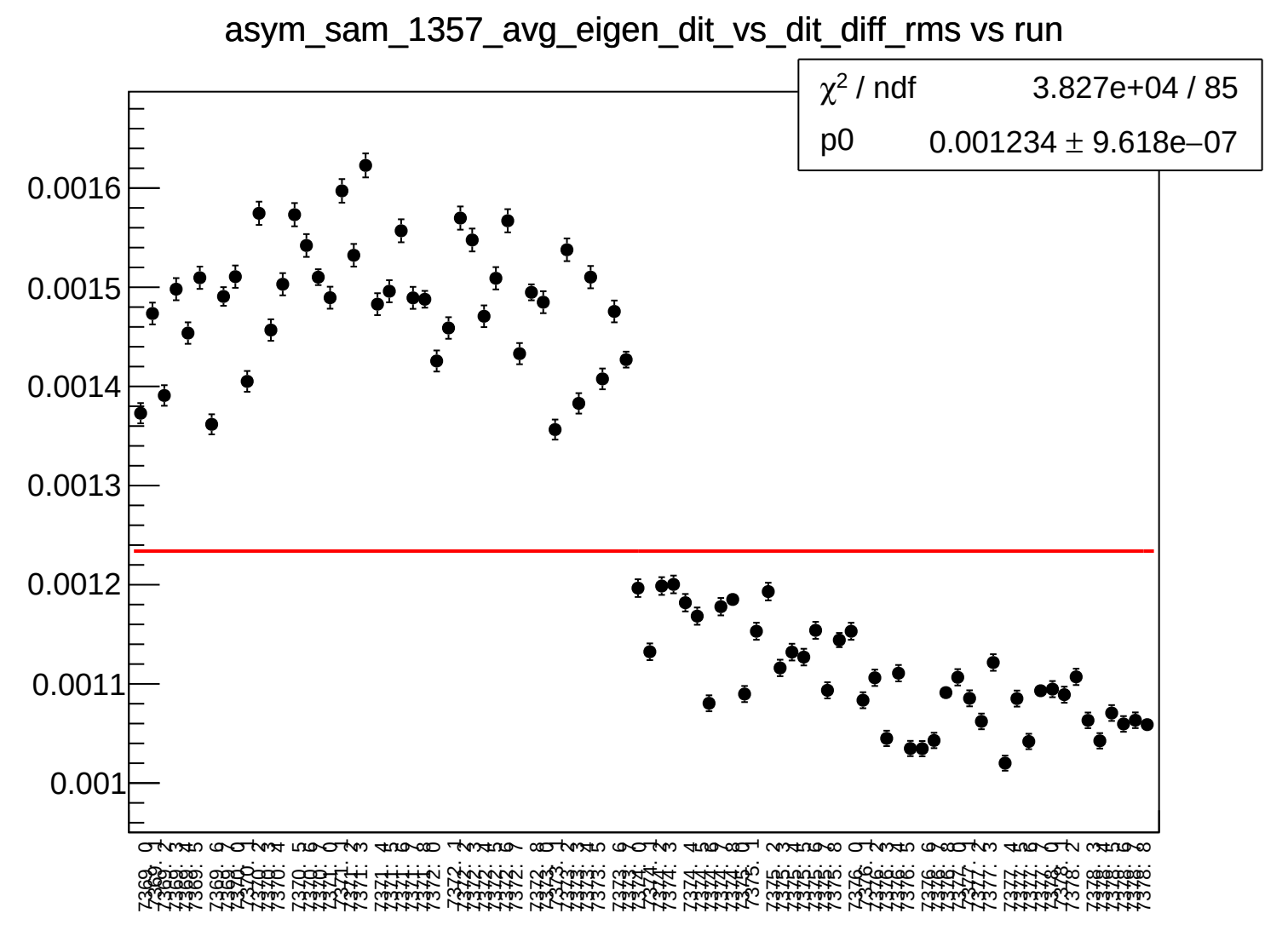

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.58e+05 / 85
p0 74.14 ± 0.06208
180
160
140
120
100
80
60
40
20

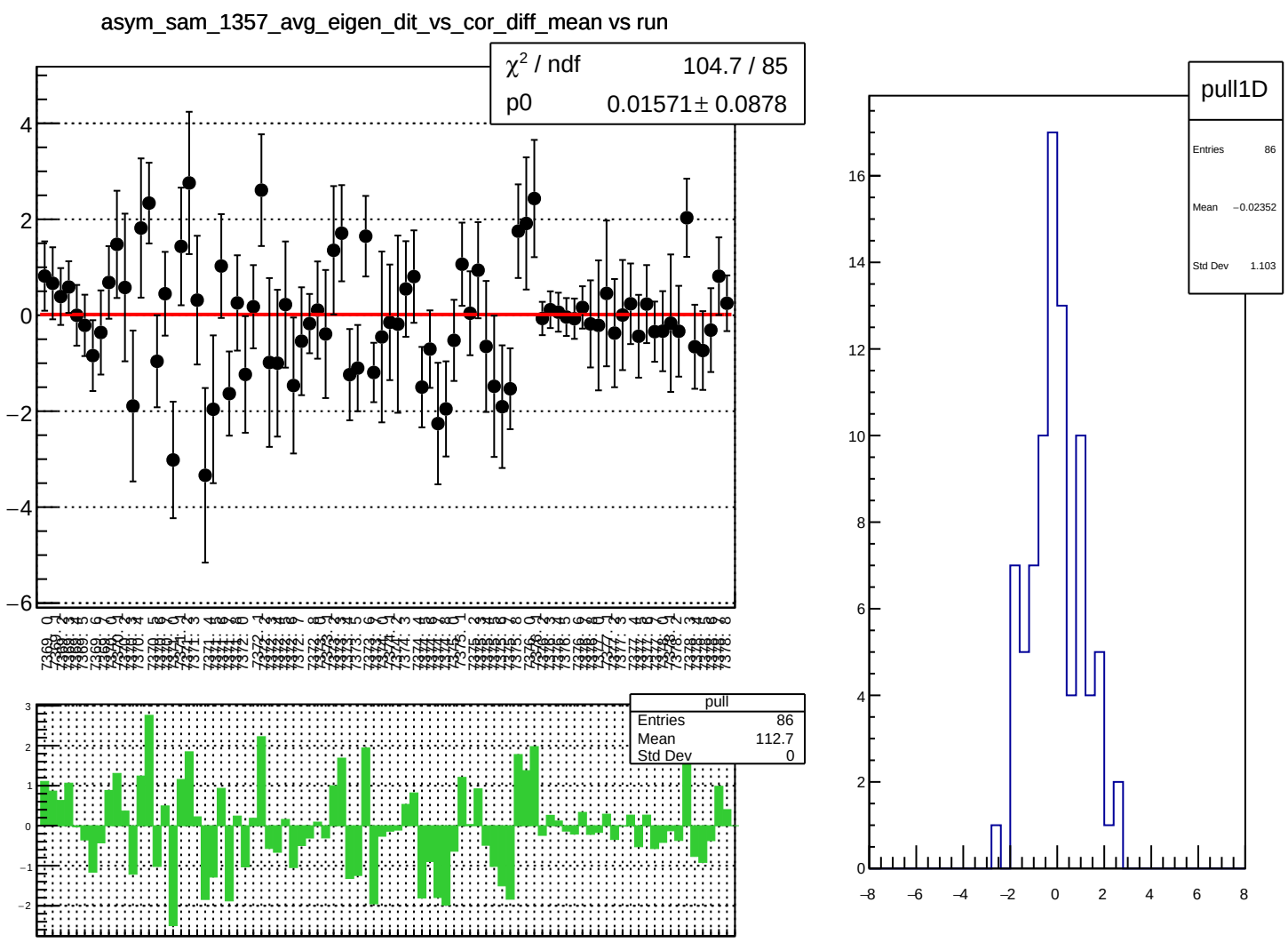

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 85
p0 0.01571 ± 0.0878
pull
Entries 86
Mean 112.7
Std Dev 0
pull1D
Entries 86
Mean −0.02351
Std Dev 1.103

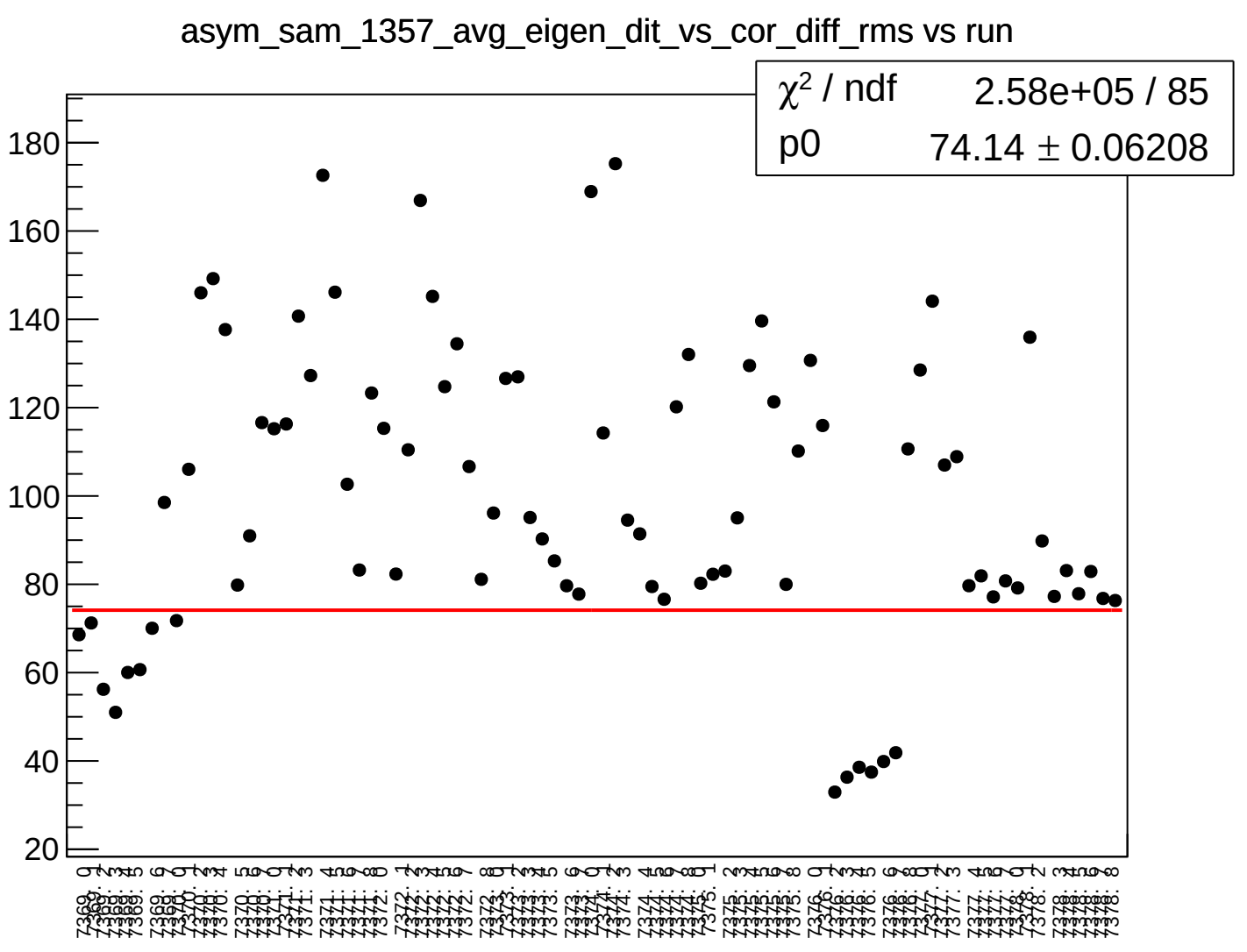

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.58e+05 / 85
p0 74.14 ± 0.06208
180
160
140
120
100
80
60
40
20

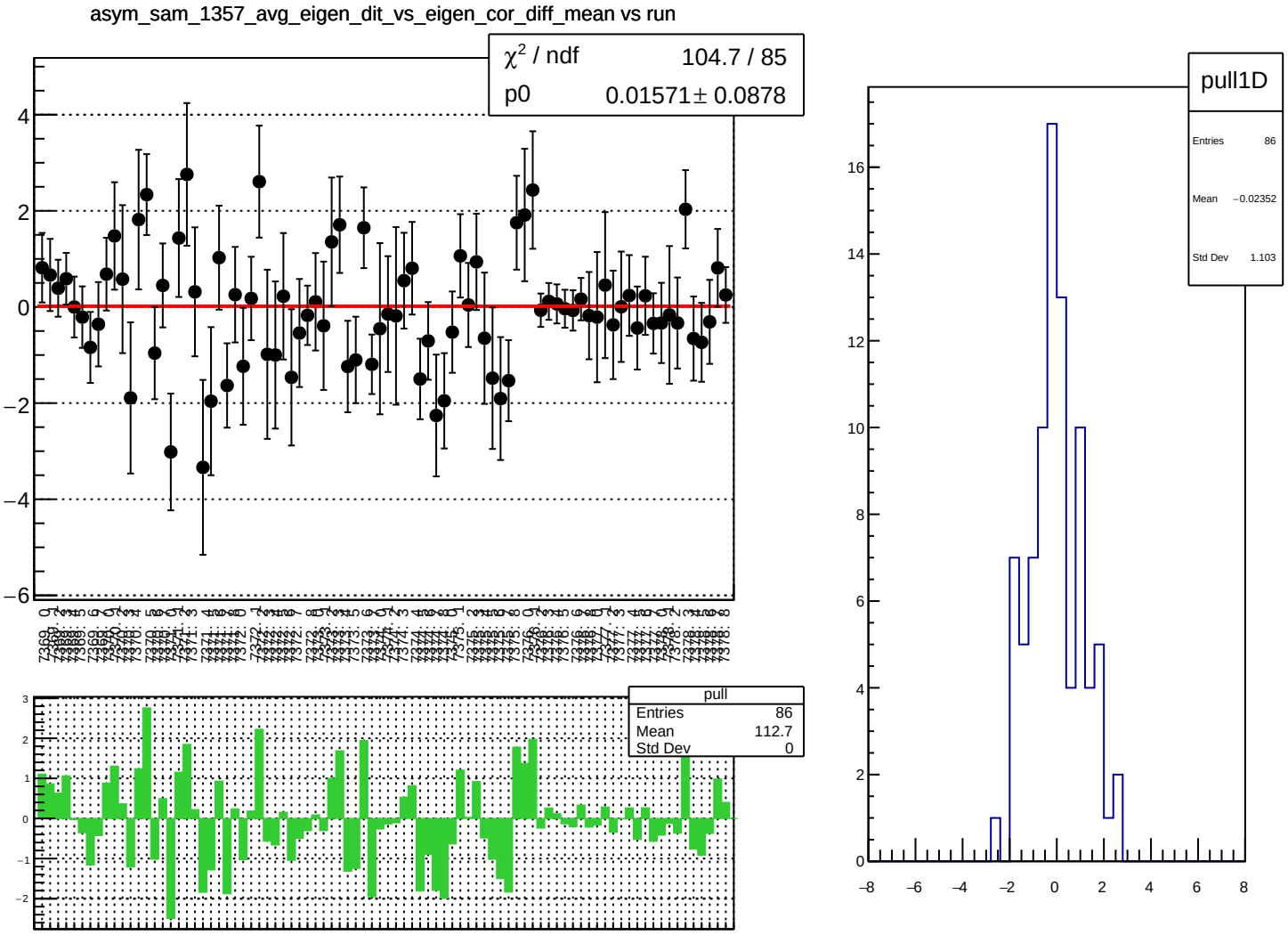

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.23 / 85
p0 1.033e−06 ± 1.36e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 86
Mean 16.62
Std Dev 0
3
2
1
0
−1
−2

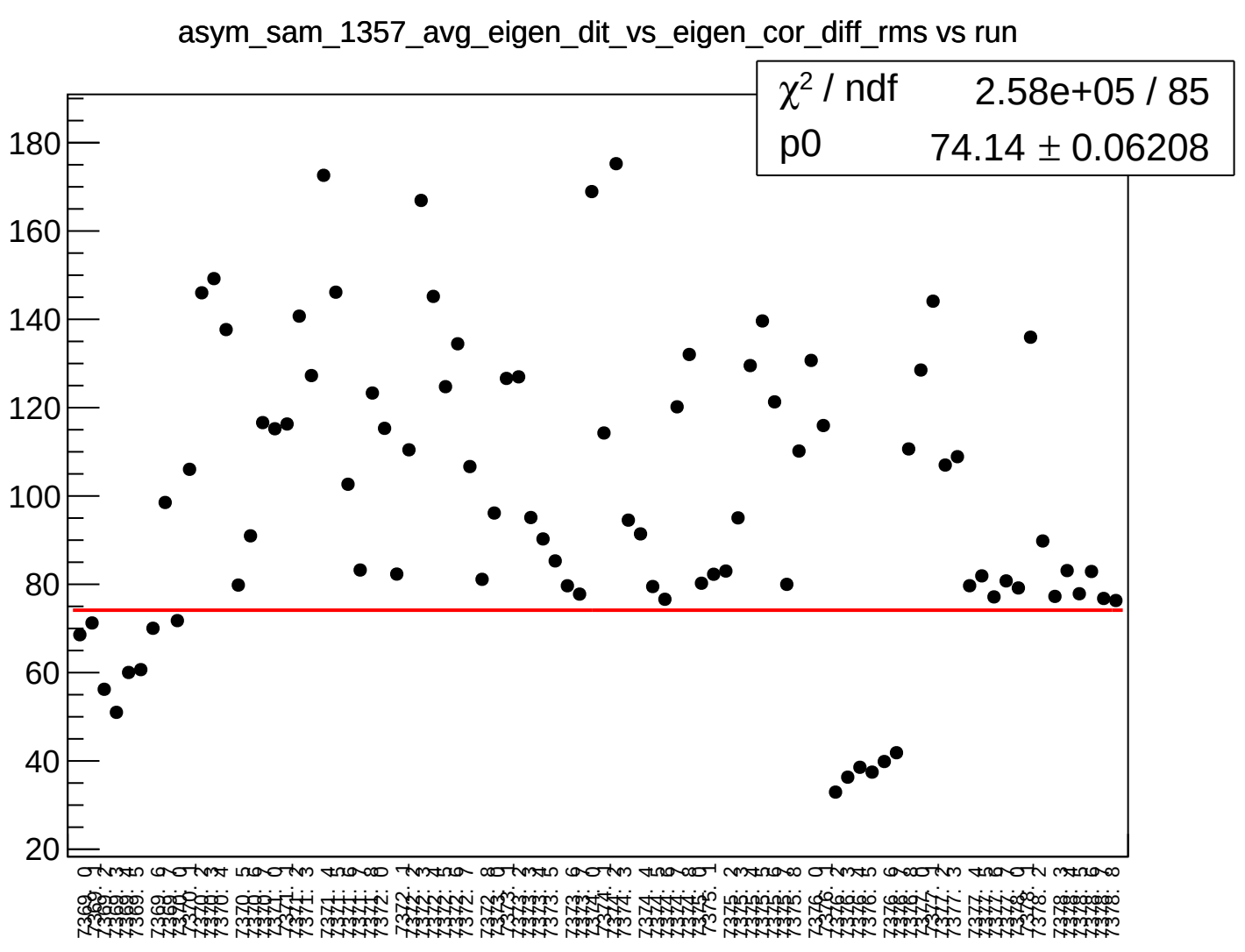

pull1D
Entries 86
Mean −0.01066
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

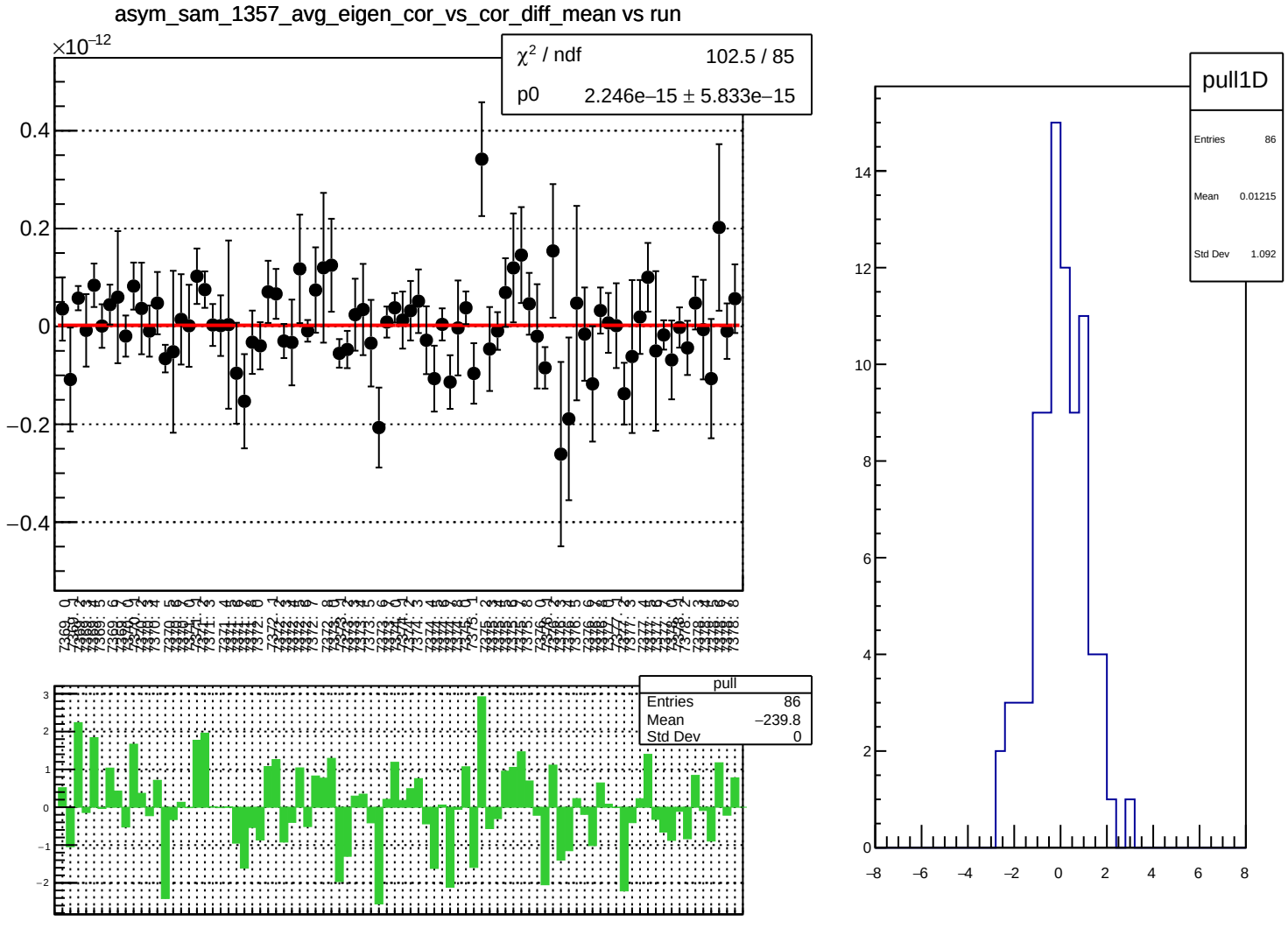

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.827e+04 / 85
p0 0.001234 ± 9.618e−07
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001

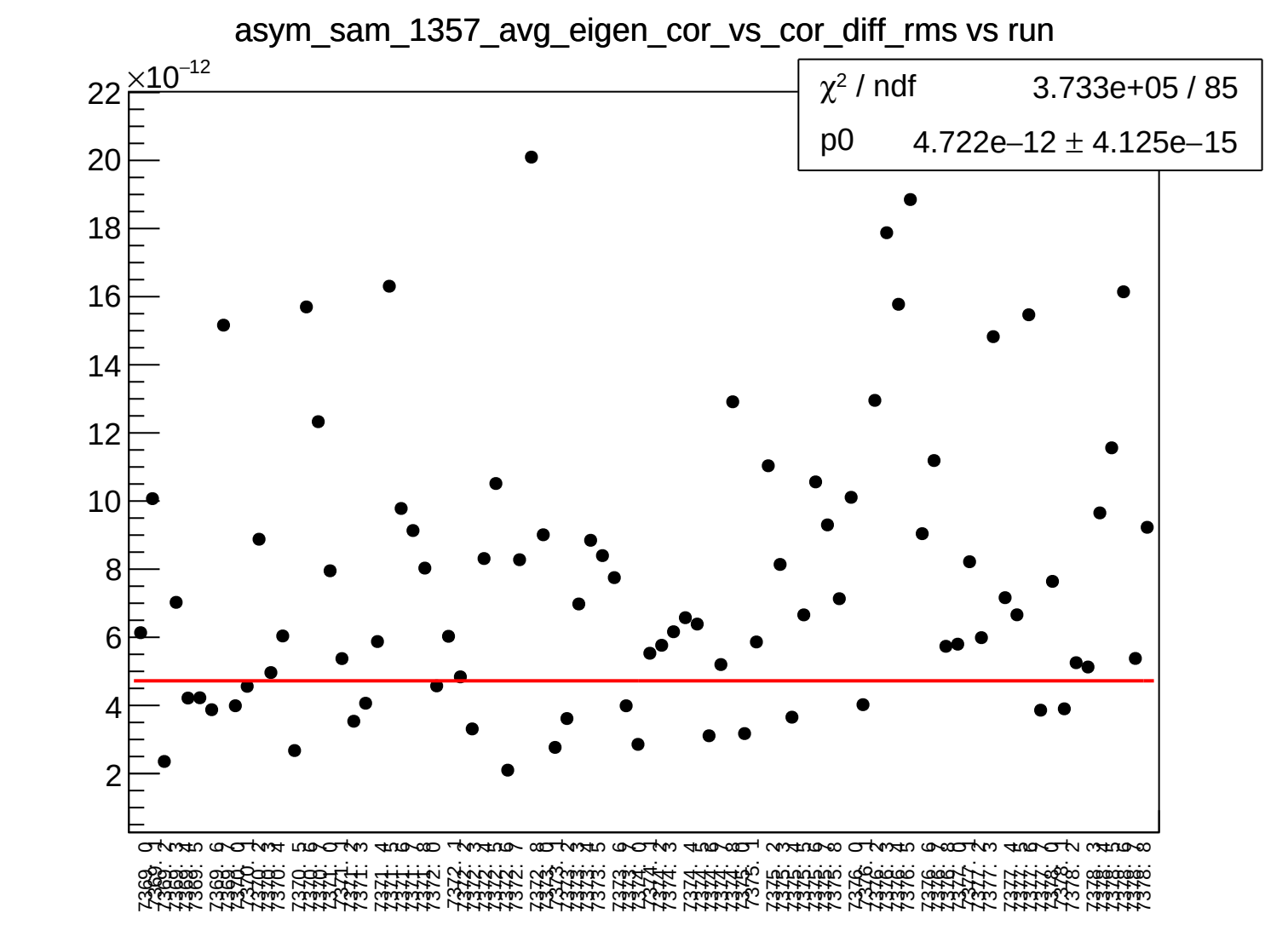

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 85
p0 0.01571 ± 0.0878
pull
Entries 86
Mean 112.7
Std Dev 0
pull1D
Entries 86
Mean −0.02352
Std Dev 1.103

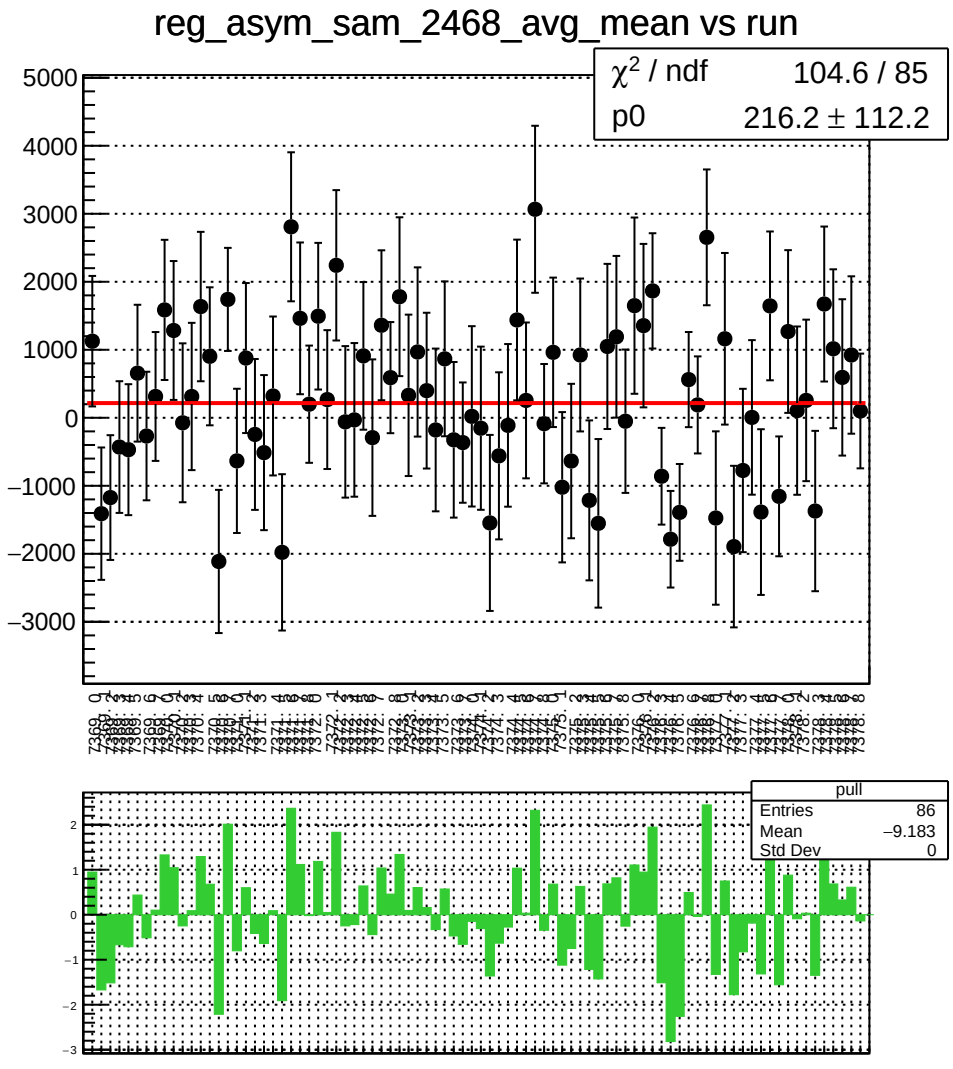

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.58e+05 / 85
p0 74.14 ± 0.06208
180
160
140
120
100
80
60
40
20

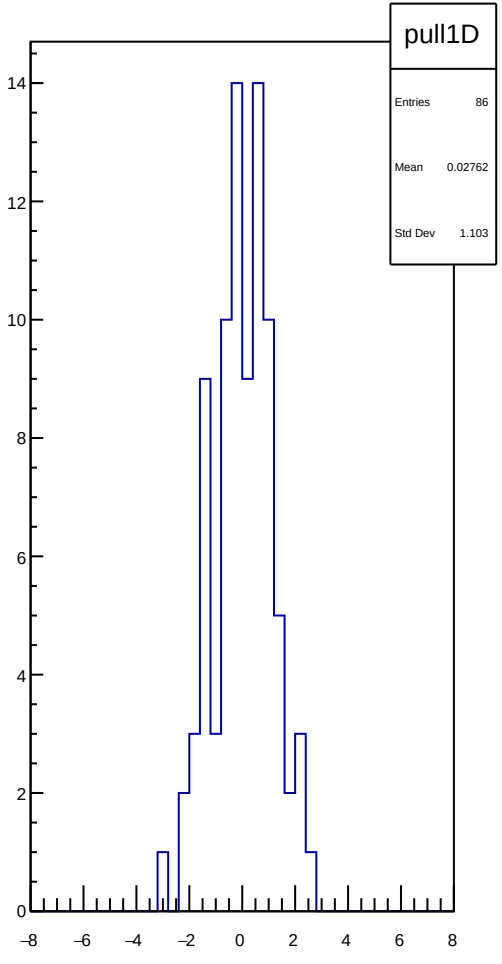

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 85
p0 0.01571 ± 0.0878
pull
Entries 86
Mean 112.7
Std Dev 0
pull1D
Entries 86
Mean −0.02352
Std Dev 1.103

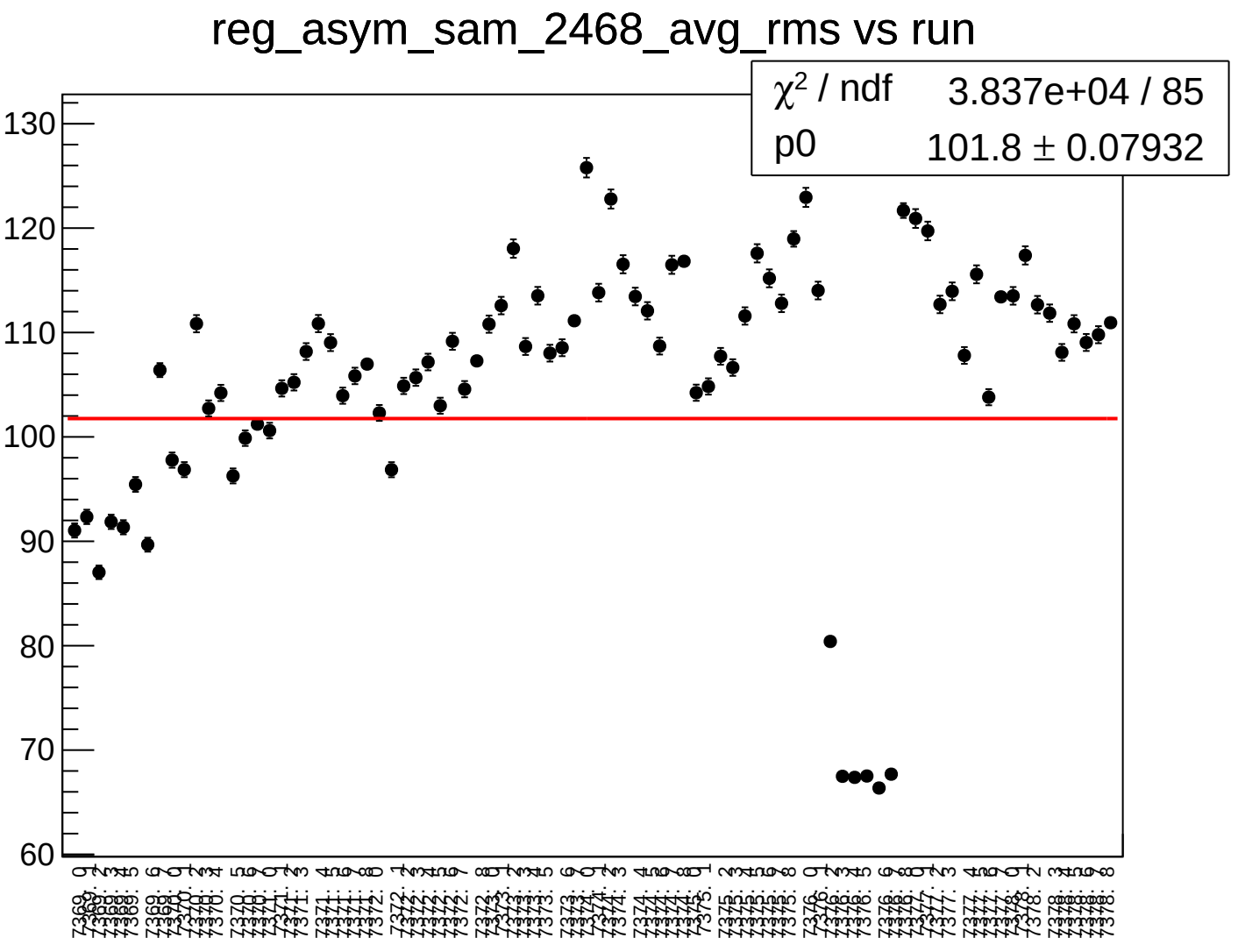

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.58e+05 / 85
p0 74.14 ± 0.06208
180
160
140
120
100
80
60
40
20

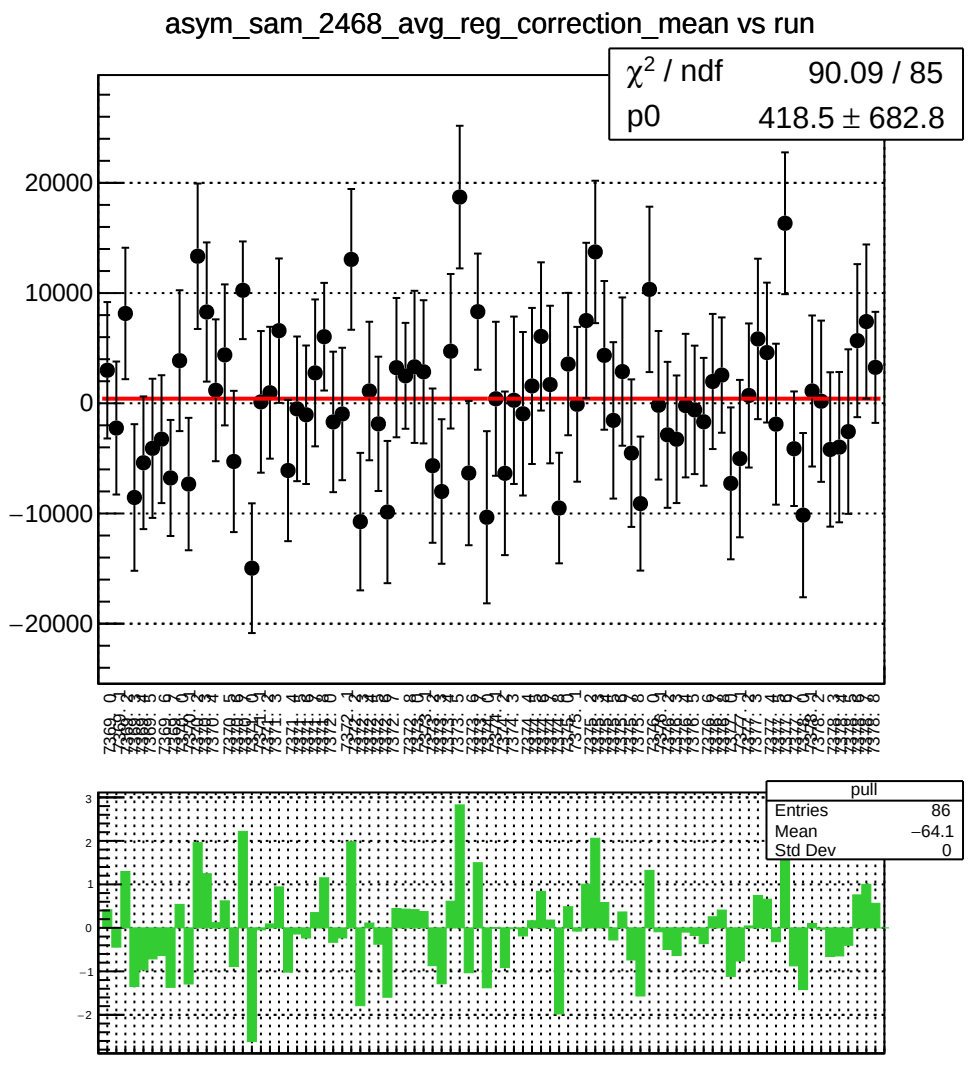

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 102.5 / 85
p0 2.246e−15 ± 5.833e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 86
Mean −239.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01215
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

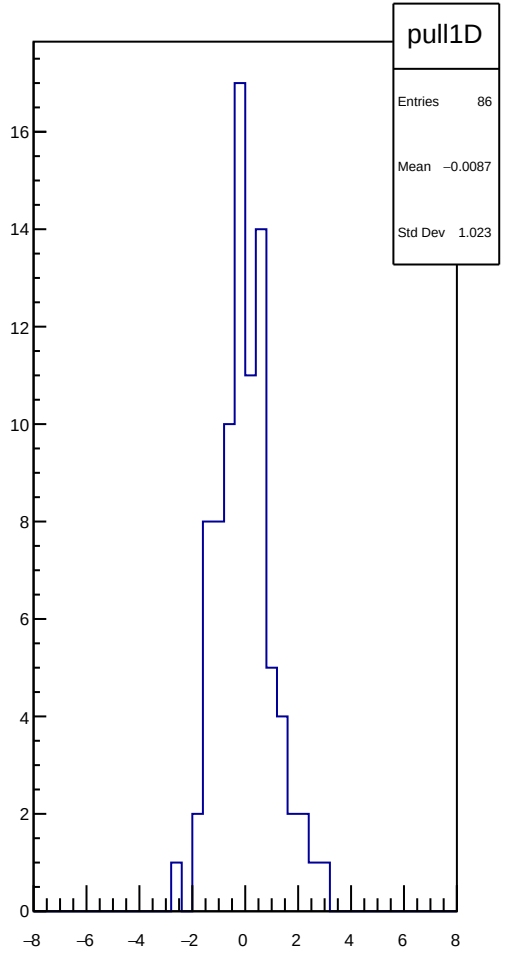

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.733e+05 / 85
p0 4.722e−12 ± 4.125e−15
22
20
18
16
14
12
10
8
6
4
2

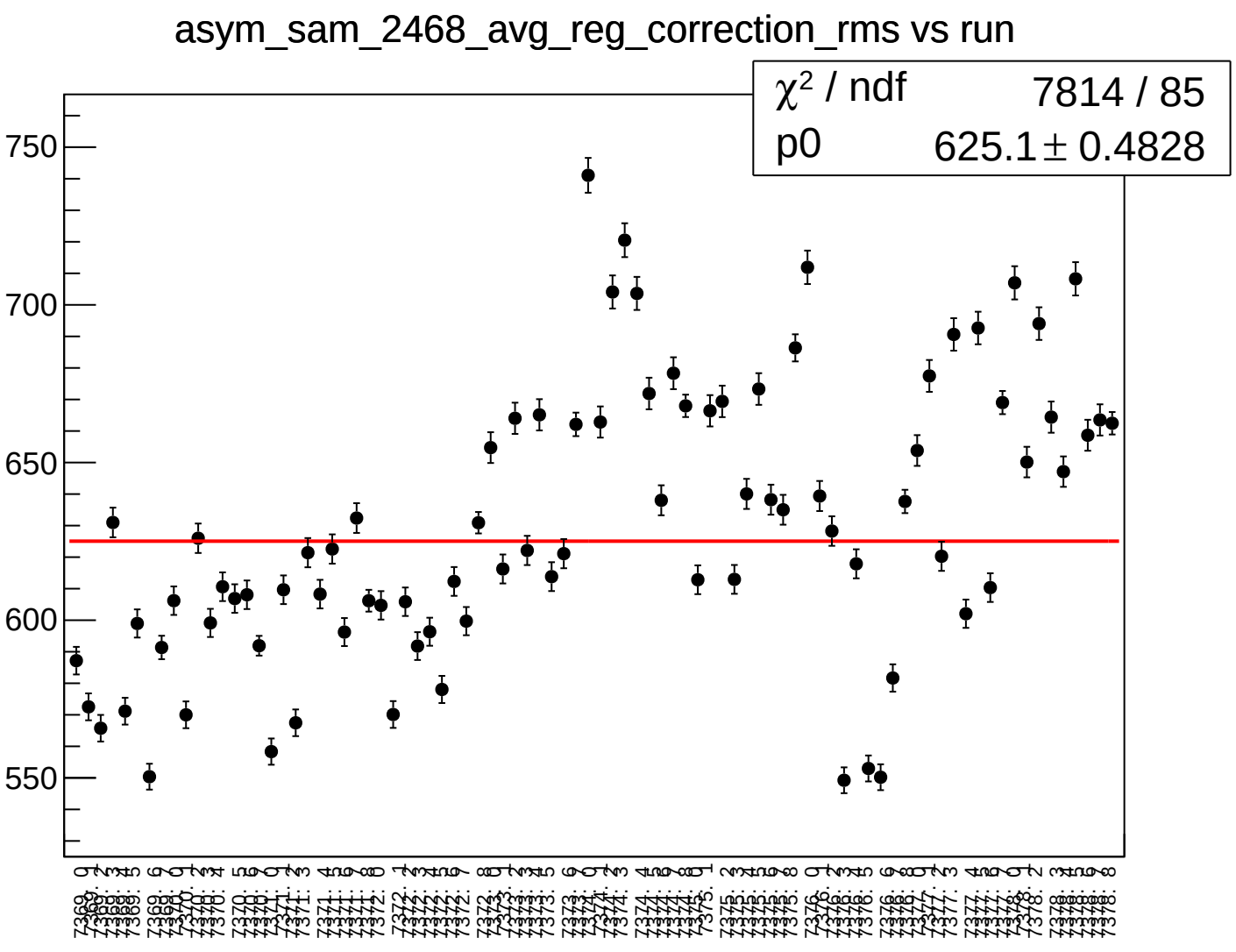

reg_asym_sam_2468_avg_mean vs run
χ^2 / ndf 104.6 / 85
p0 216.2 ± 112.2
pull
Entries 86
Mean −9.183
Std Dev 0

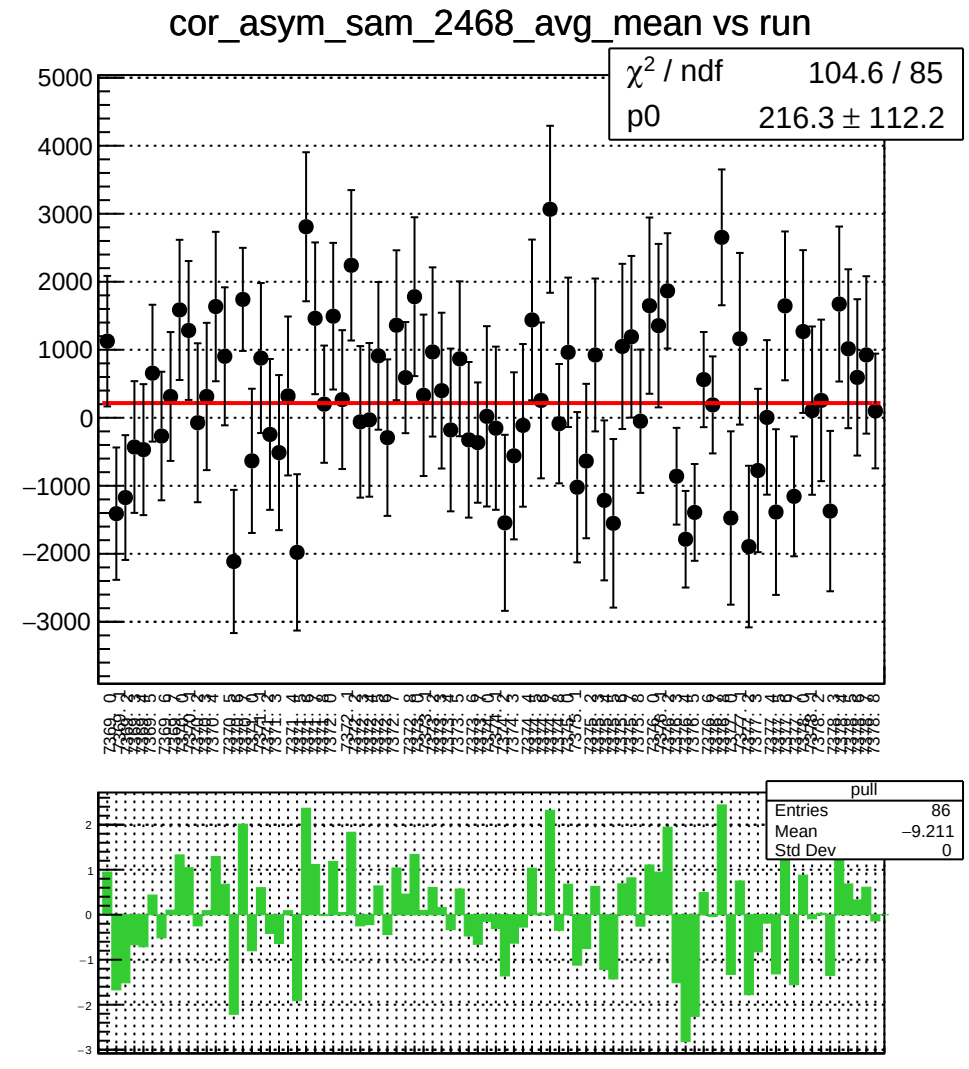

pull1D
Entries 86
Mean 0.02762
Std Dev 1.103

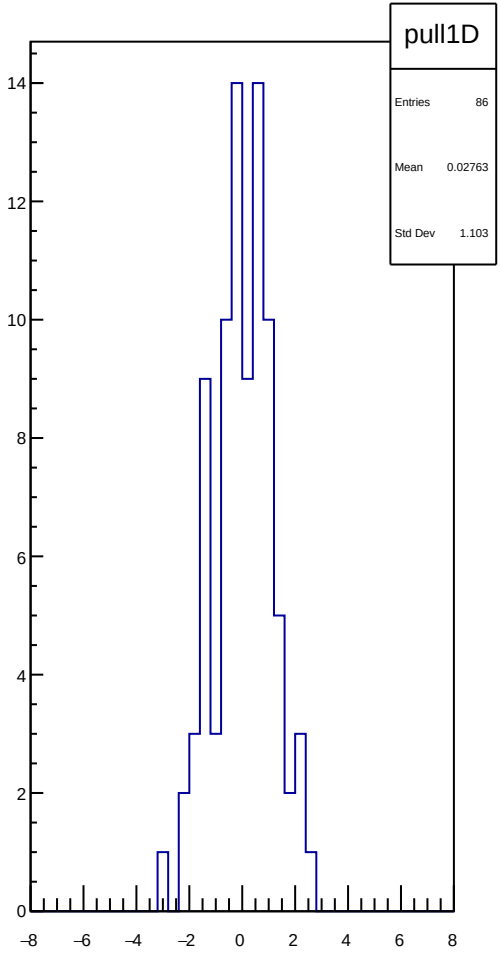

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3.837e+04 / 85
p0 101.8 ± 0.07932
130
120
110
100
90
80
70
60

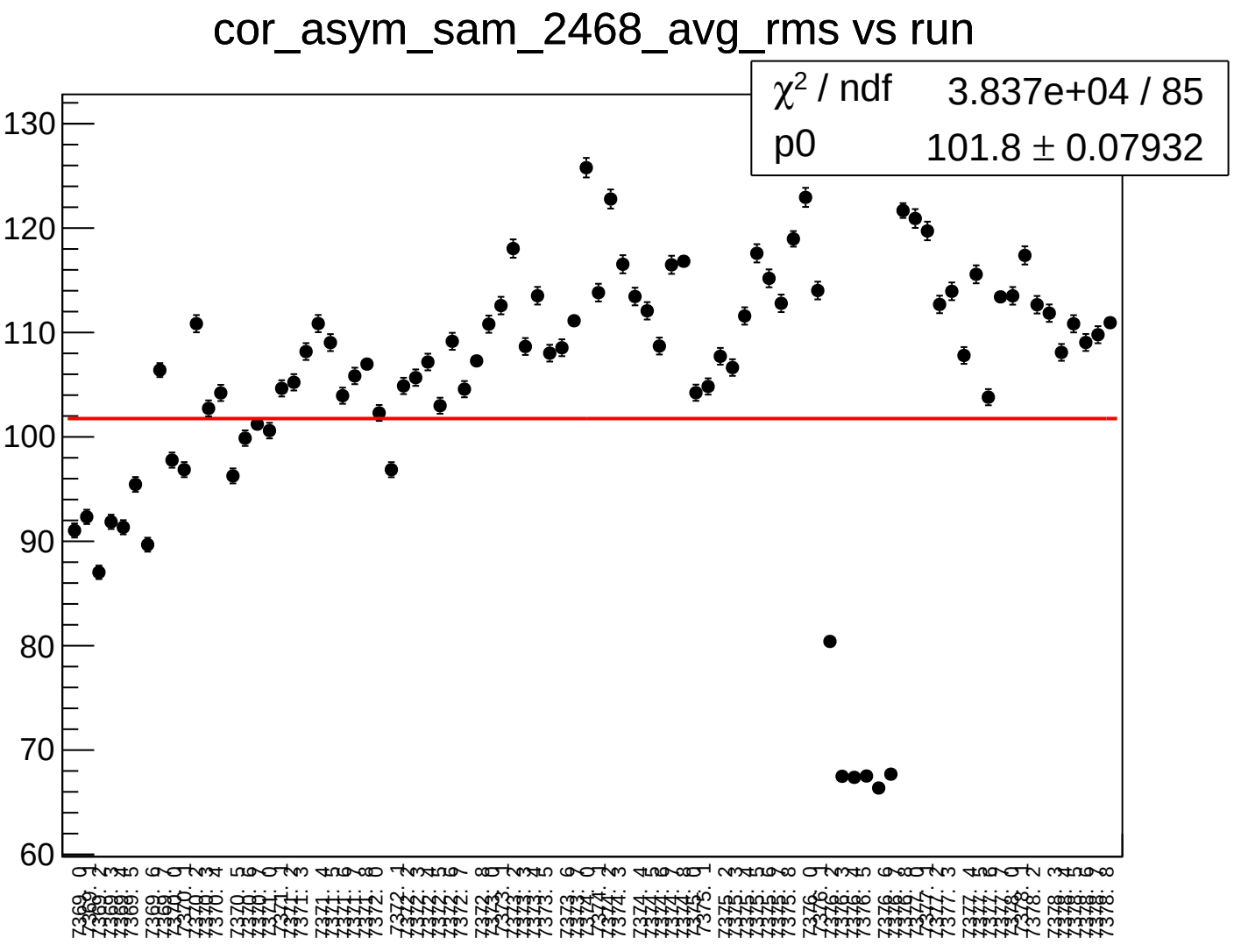

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 90.09 / 85
p0 418.5 ± 682.8
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −64.1
Std Dev 0
3
2
1
0
−1
−2

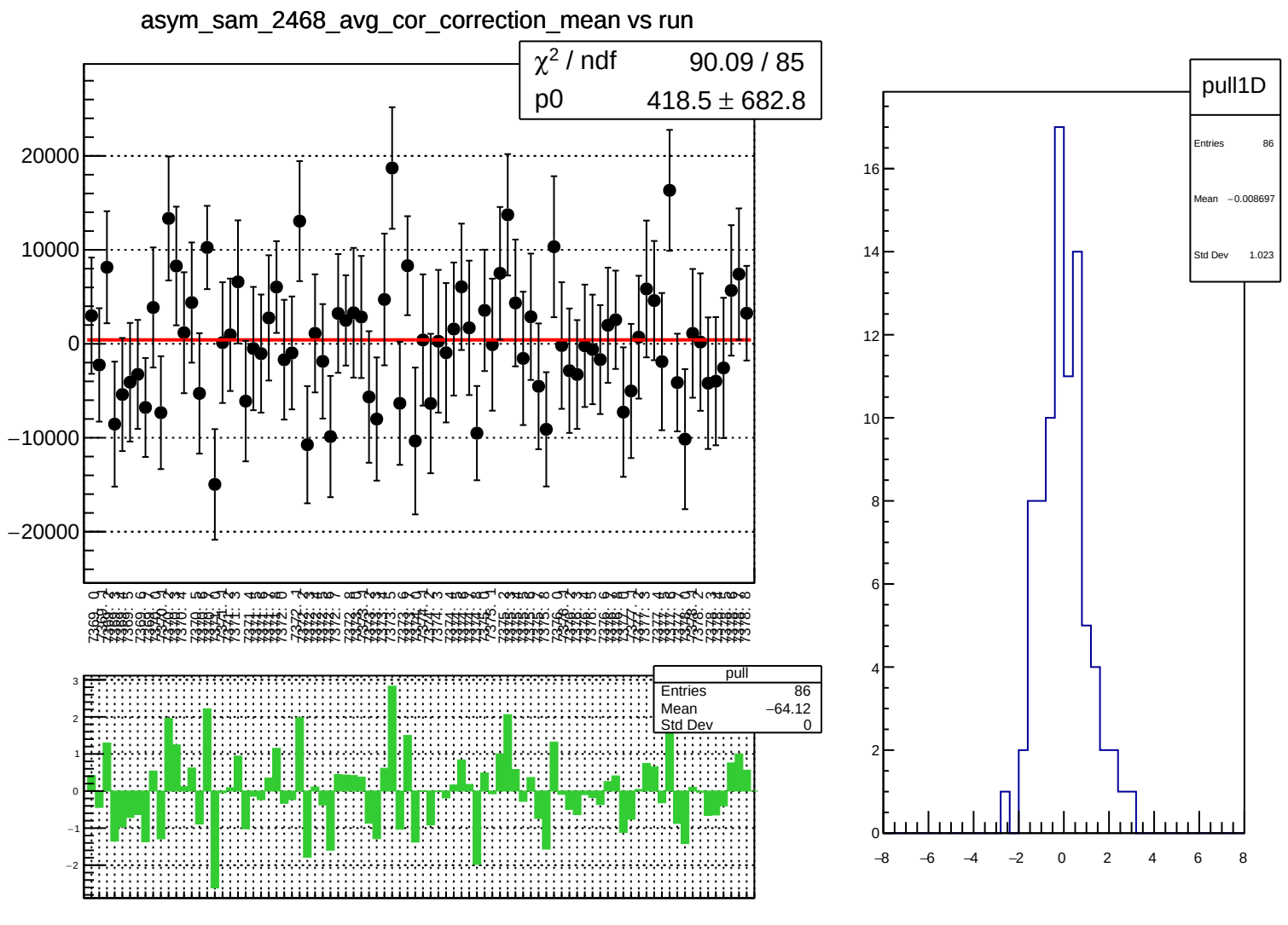

pull1D
Entries 86
Mean −0.0087
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

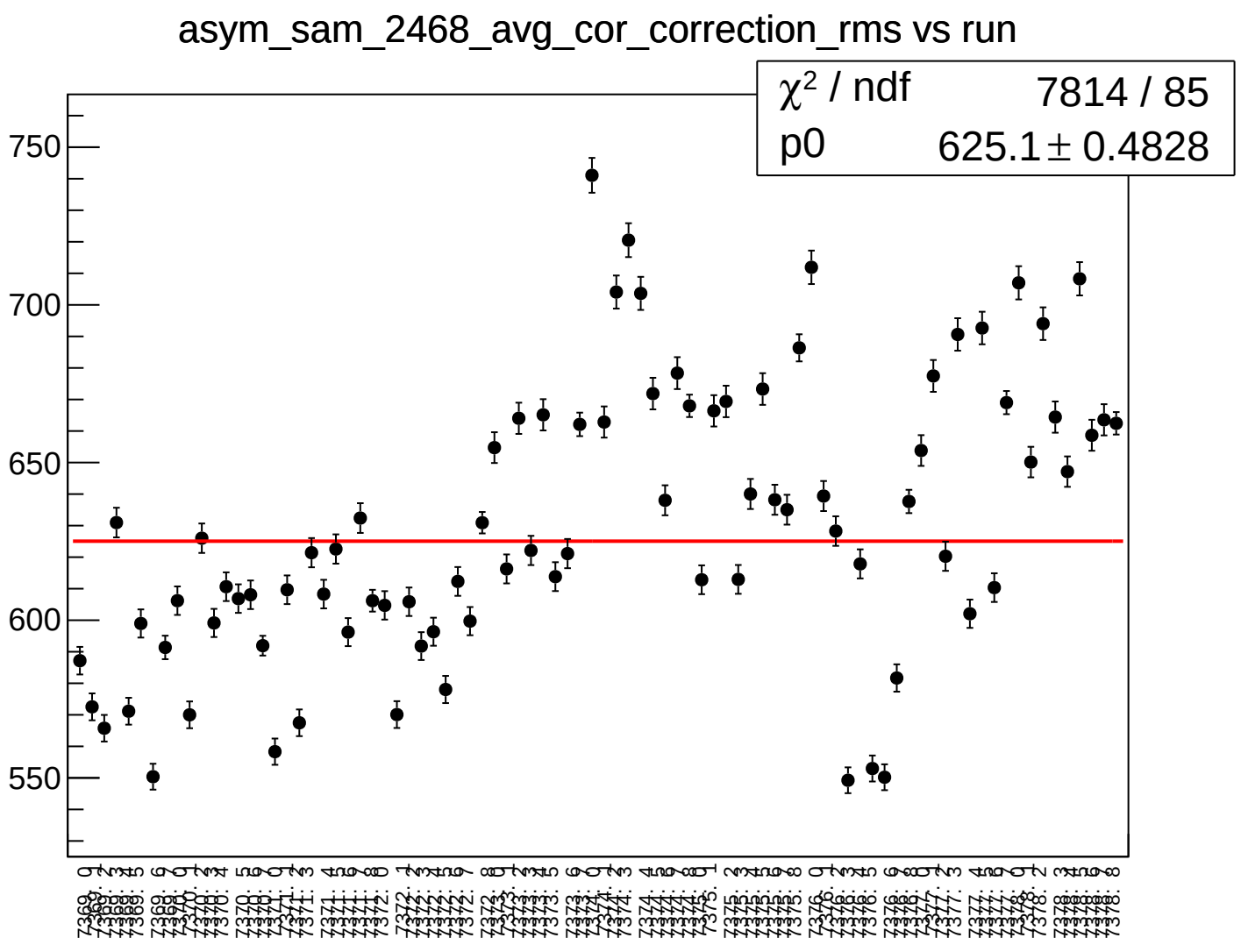

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 7814 / 85
p0 625.1 ± 0.4828
750
700
650
600
550

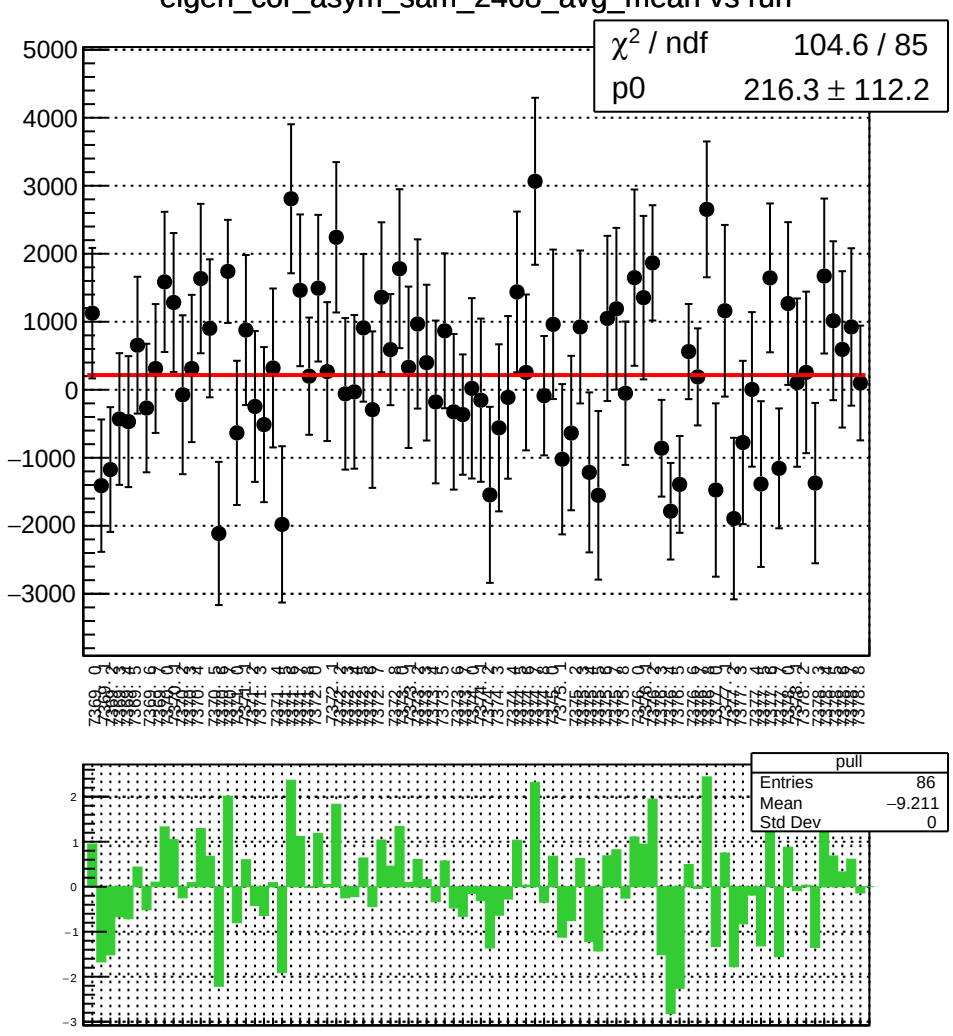

cor_asym_sam_2468_avg_mean vs run
χ^2 / ndf 104.6 / 85
p0 216.3 ± 112.2
pull
Entries 86
Mean −9.211
Std Dev 0

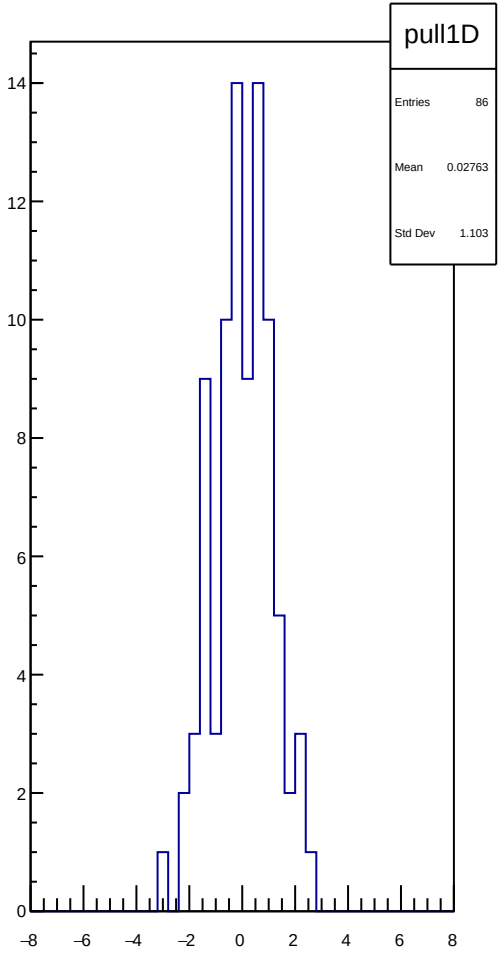

pull1D
Entries 86
Mean 0.02763
Std Dev 1.103

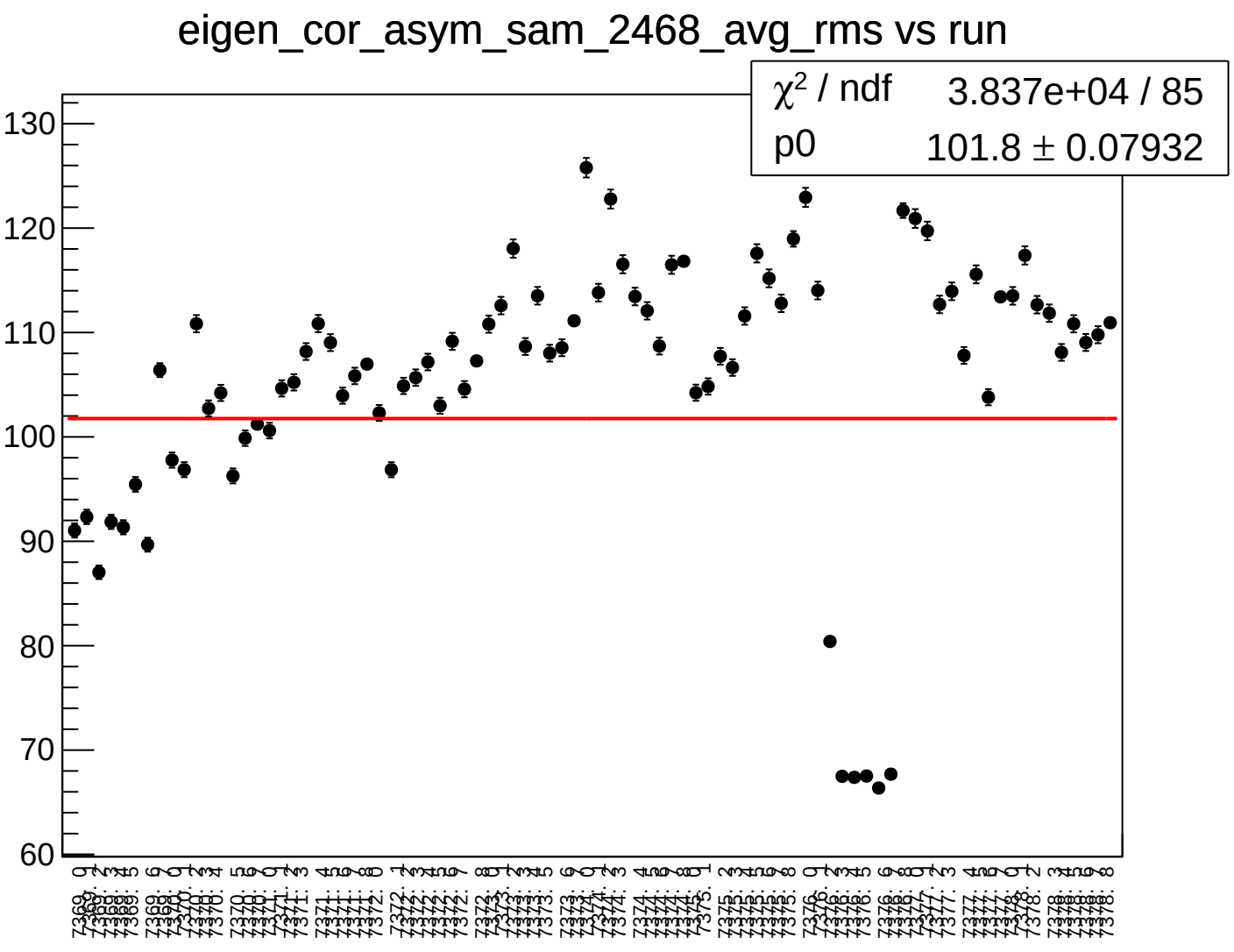

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3.837e+04 / 85
p0 101.8 ± 0.07932
130
120
110
100
90
80
70
60

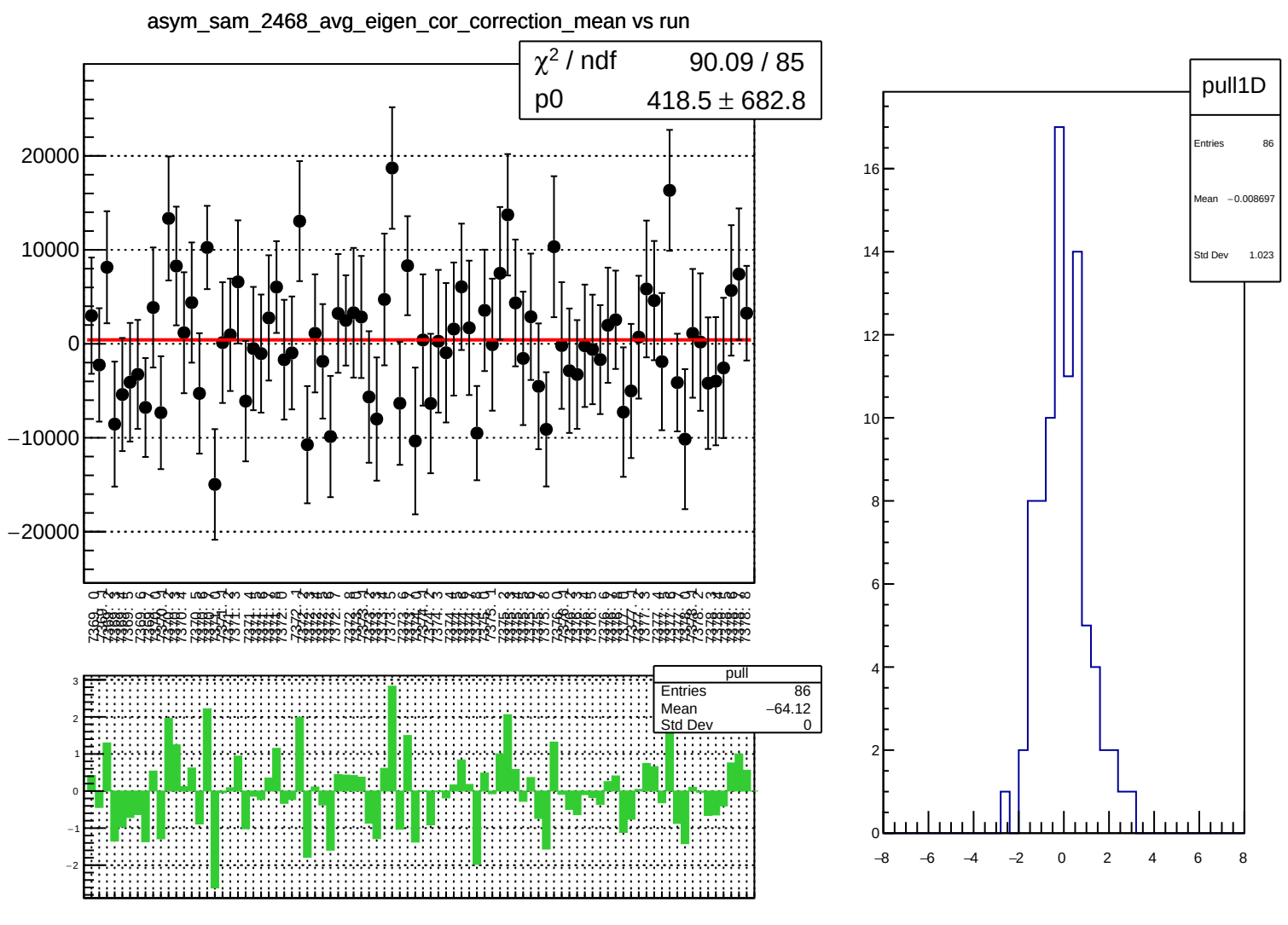

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 90.09 / 85
p0 418.5 ± 682.8
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −64.12
Std Dev 0
pull1D
Entries 86
Mean −0.008697
Std Dev 1.023

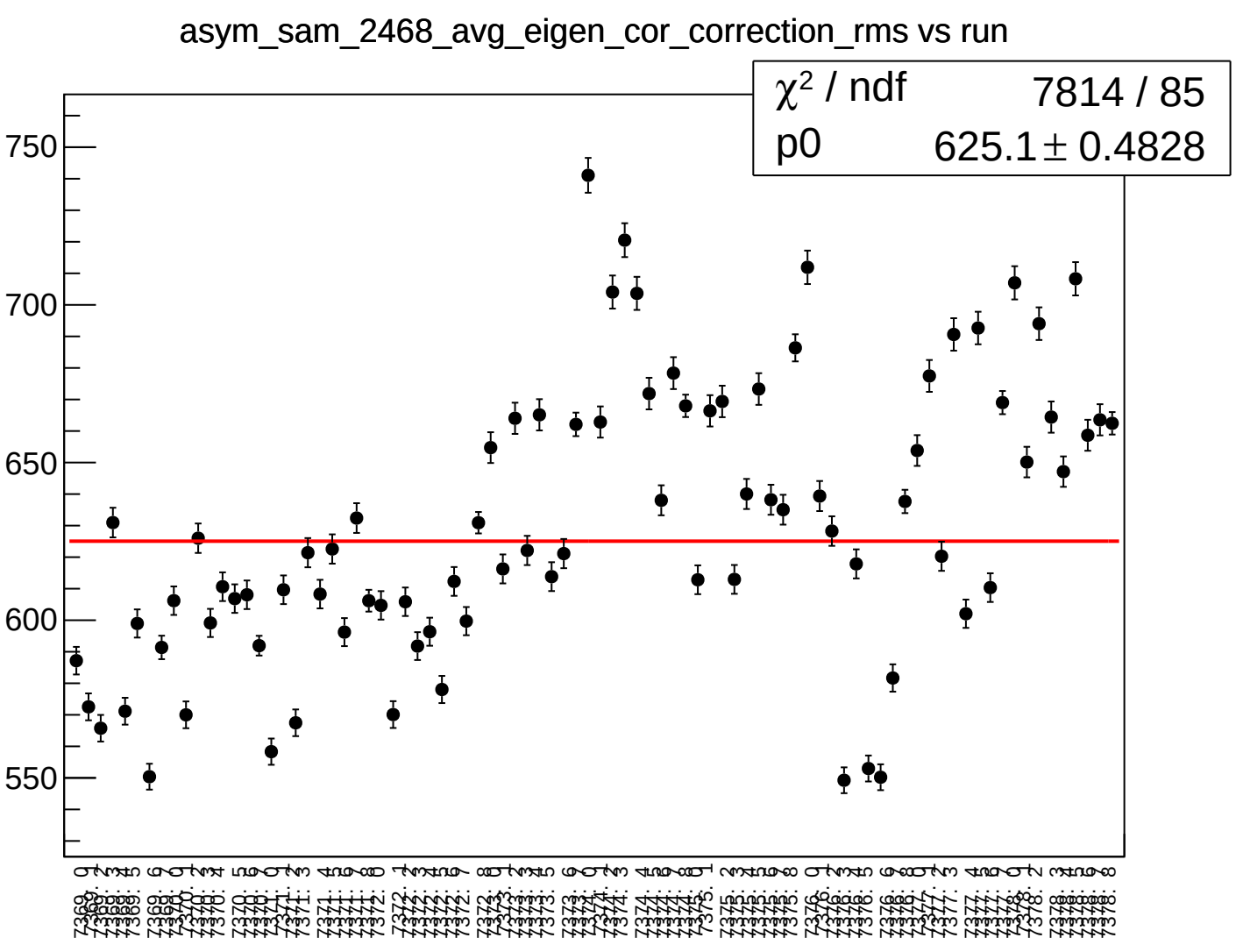

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 7814 / 85
p0 625.1 ± 0.4828
750
700
650
600
550

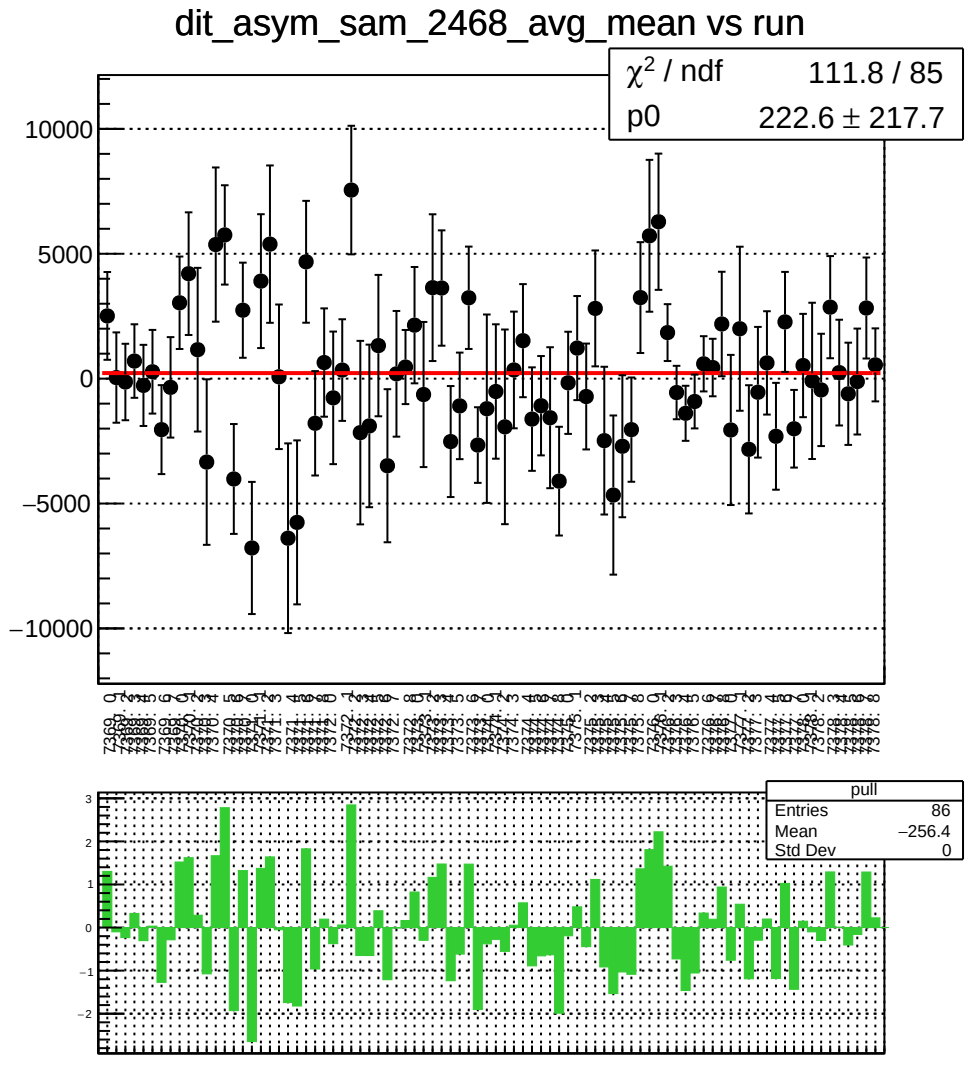

eigen_cor_asym_sam_2468_avg_mean vs run
χ^2 / ndf 104.6 / 85
p0 216.3 ± 112.2
pull
Entries 86
Mean −9.211
Std Dev 0

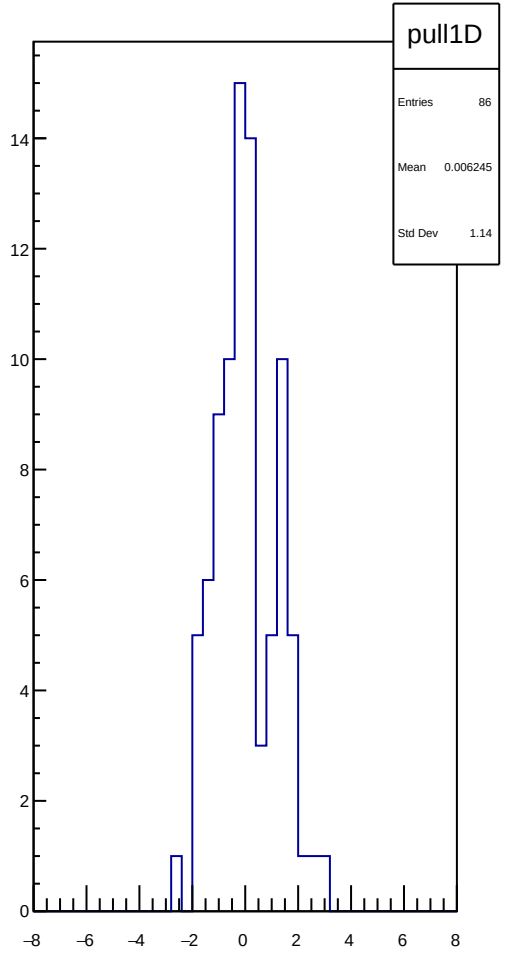

pull1D
Entries 86
Mean 0.02763
Std Dev 1.103

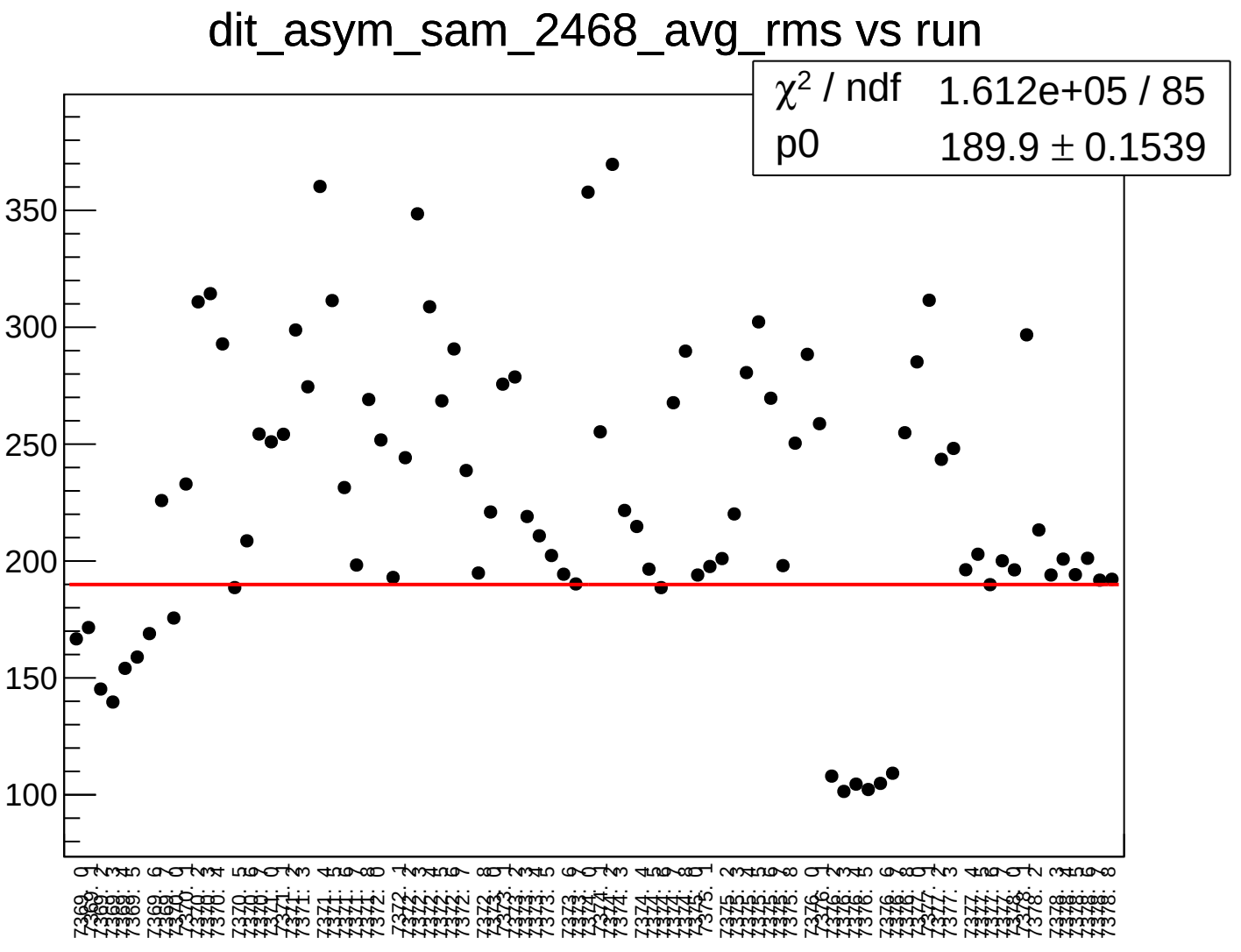

eigen_cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3.837e+04 / 85
p0 101.8 ± 0.07932
130
120
110
100
90
80
70
60

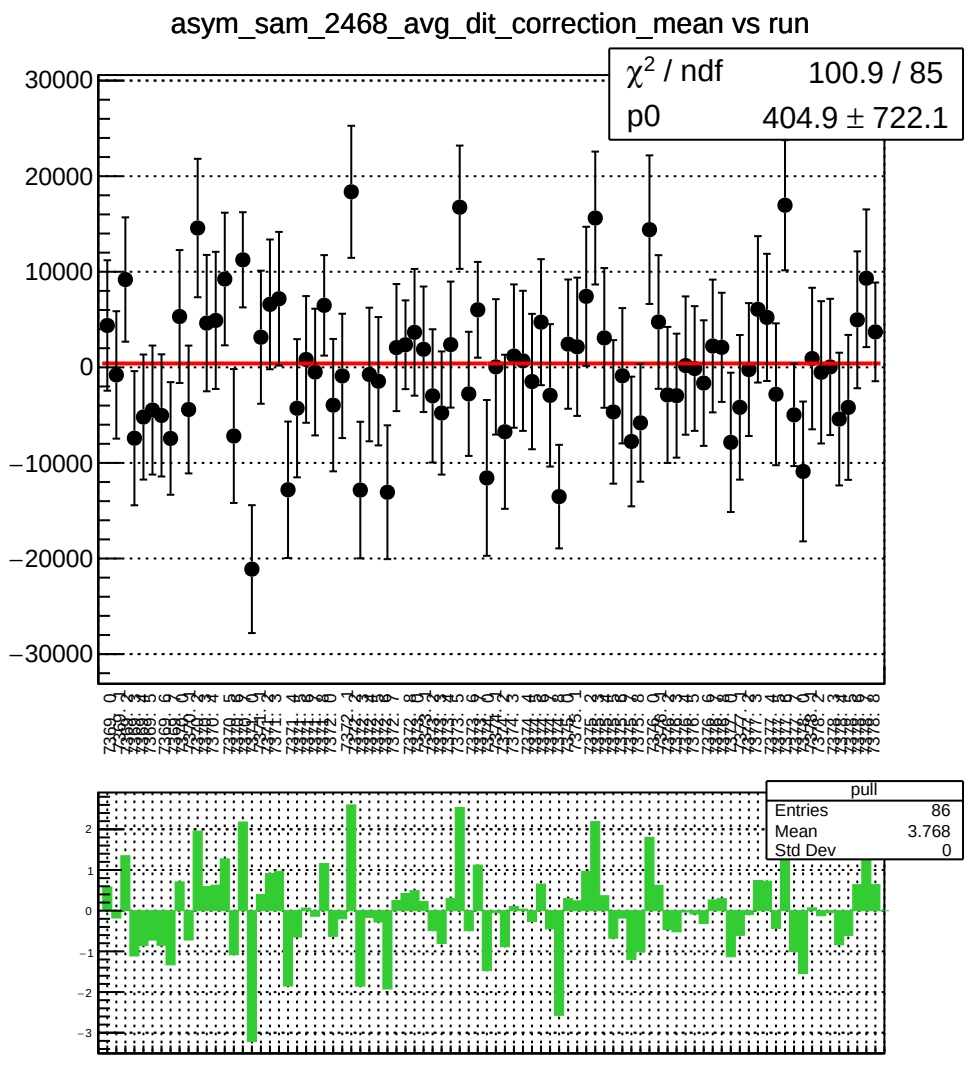

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.09 / 85
p0 418.5 ± 682.8
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −64.12
Std Dev 0
pull1D
Entries 86
Mean −0.008697
Std Dev 1.023

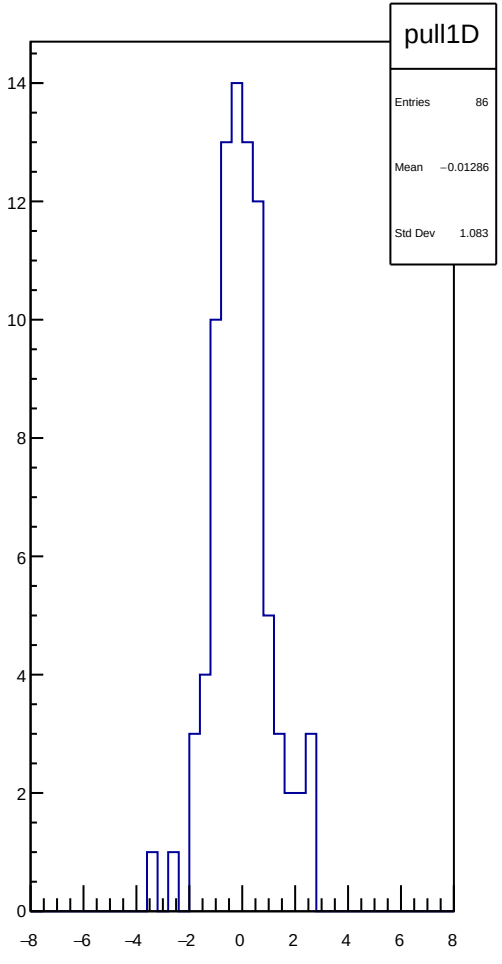

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 7814 / 85
p0 625.1 ± 0.4828
750
700
650
600
550

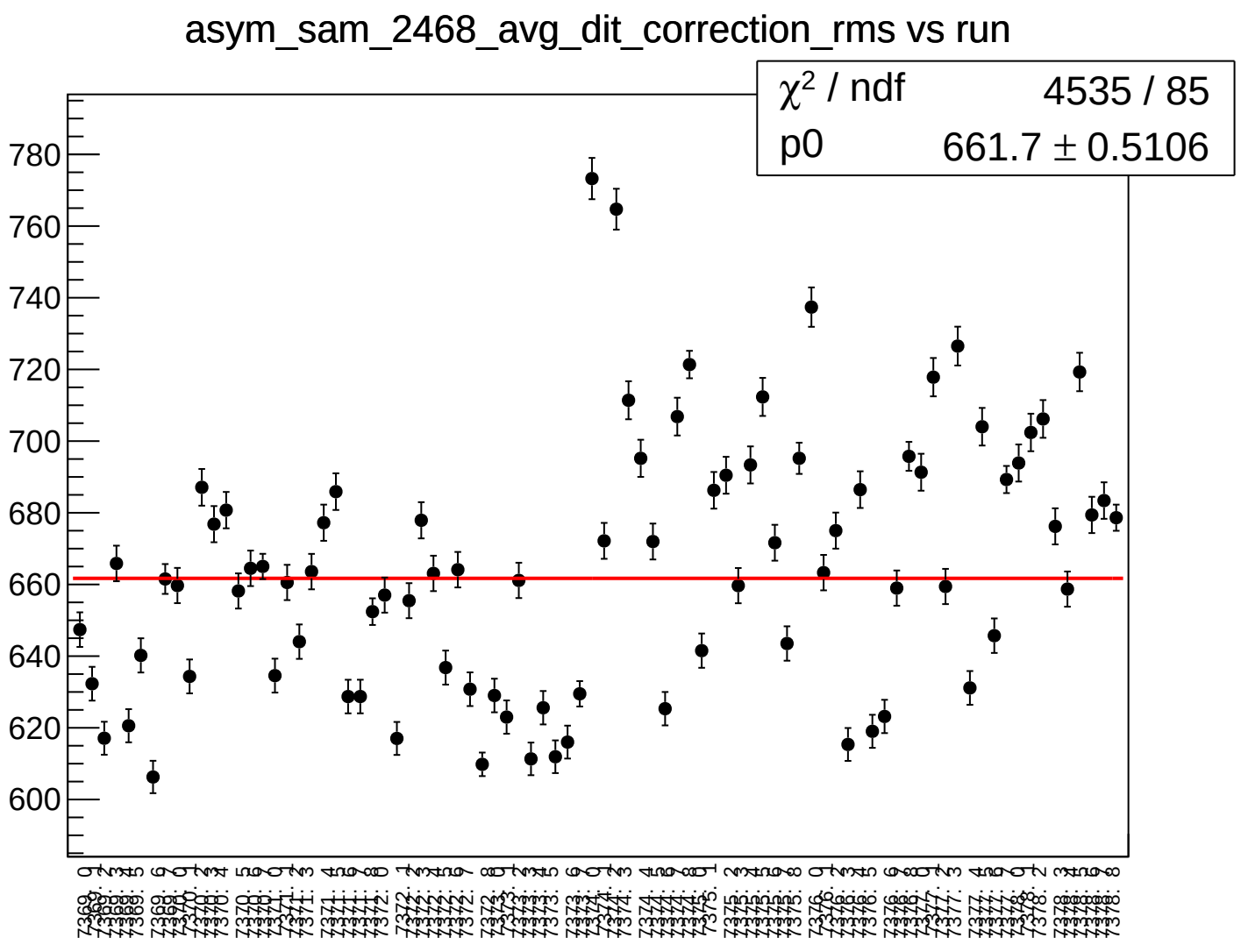

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 111.8 / 85
p0 222.6 ± 217.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −256.4
Std Dev 0
3
2
1
0
−1
−2

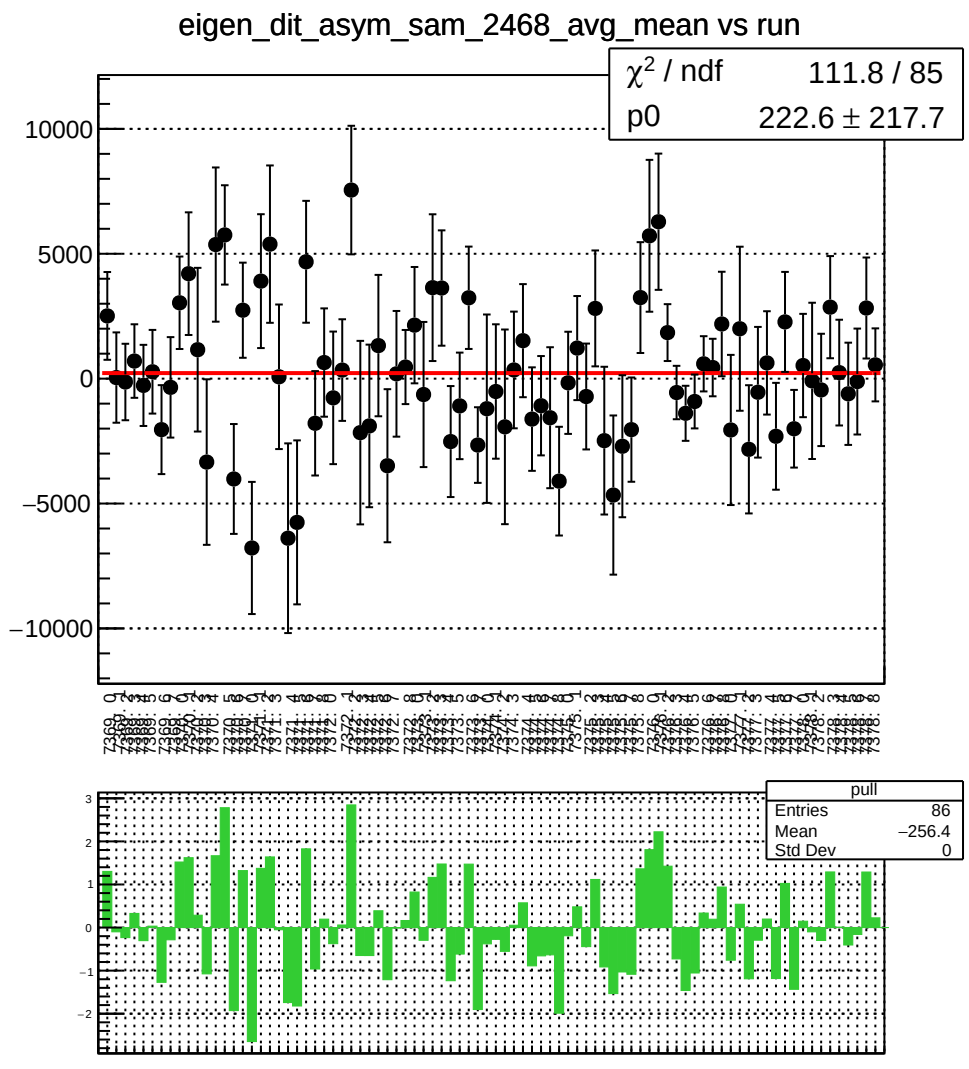

pull1D
Entries 86
Mean 0.006245
Std Dev 1.14
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

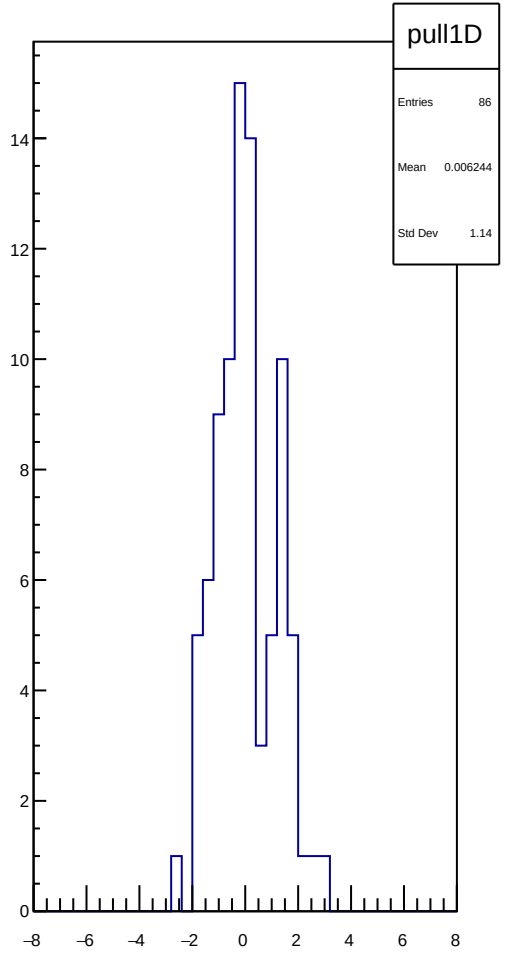

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.612e+05 / 85
p0 189.9 ± 0.1539
350
300
250
200
150
100

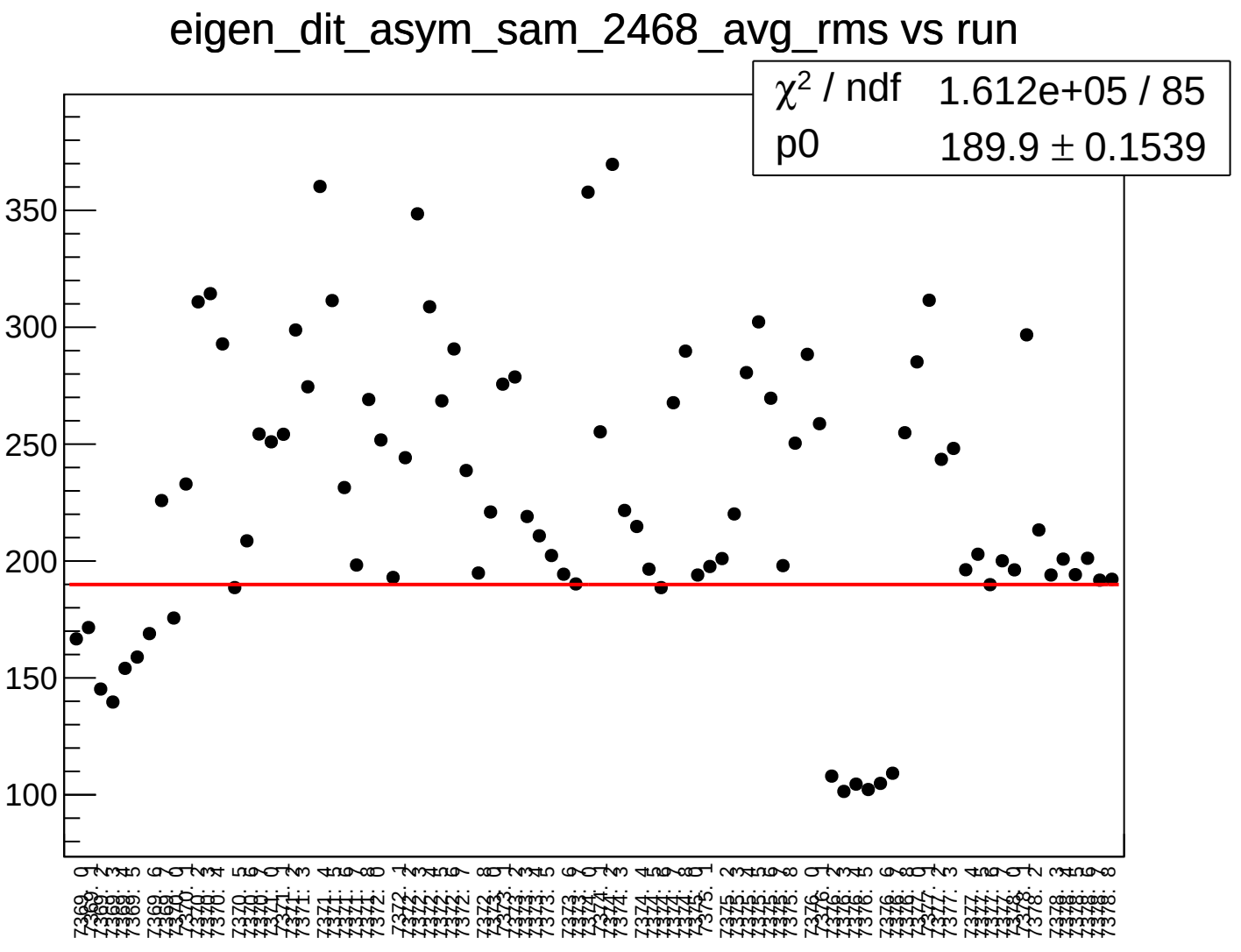

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 100.9 / 85
p0 404.9 ± 722.1
pull
Entries 86
Mean 3.768
Std Dev 0

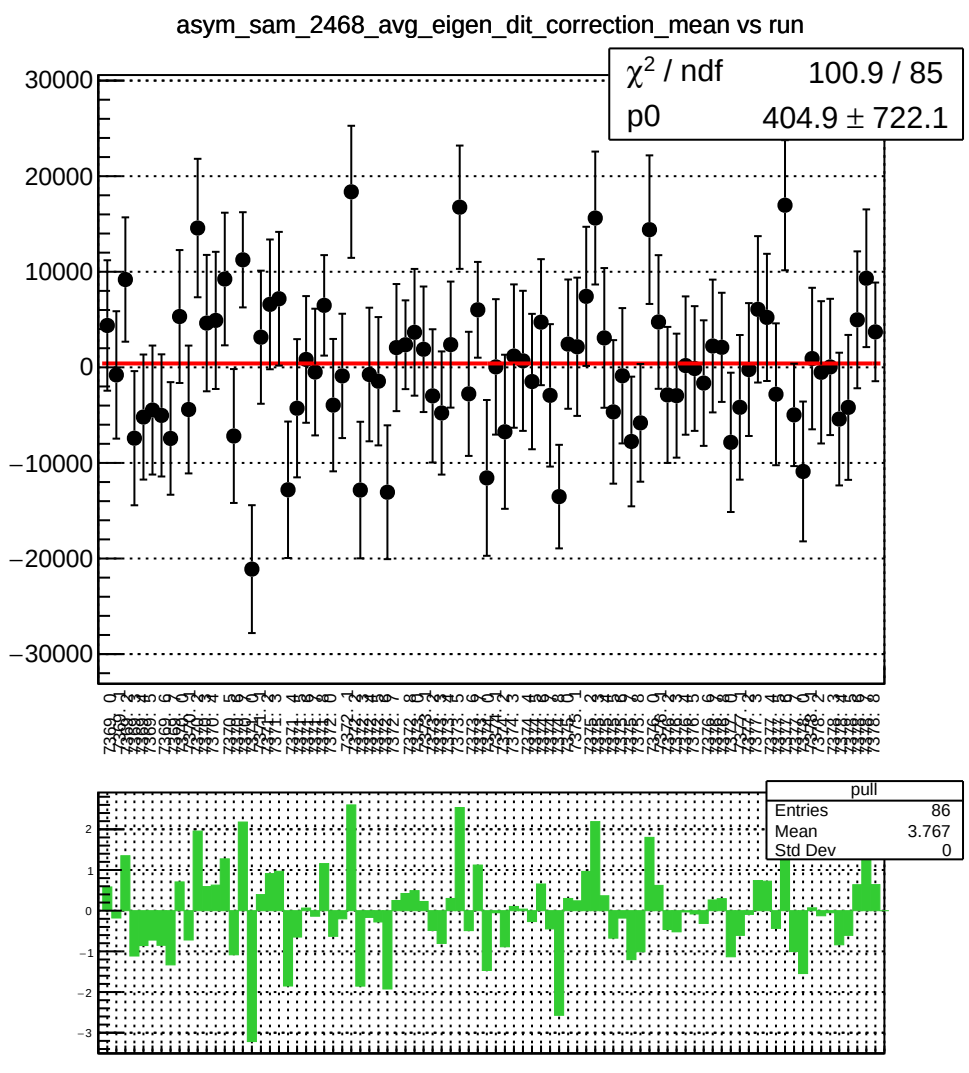

pull1D
Entries 86
Mean −0.01286
Std Dev 1.083

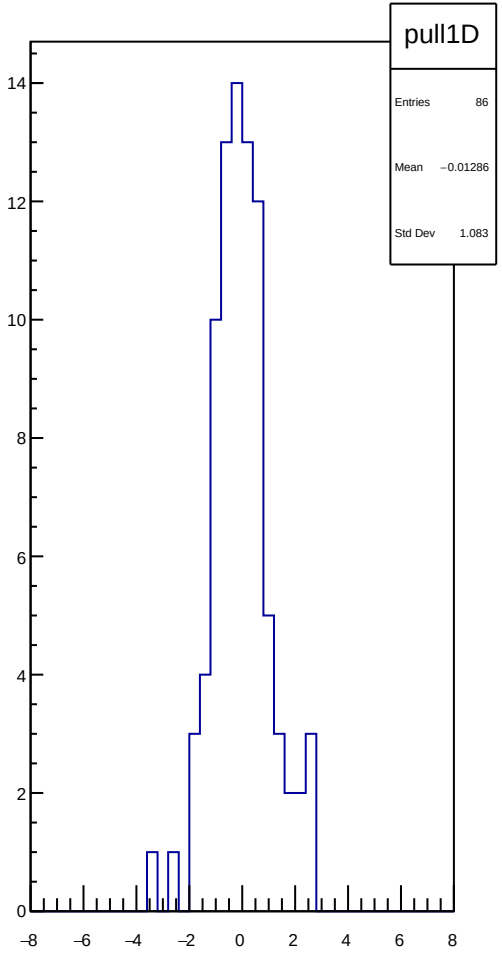

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 4535 / 85
p0 661.7 ± 0.5106
780
760
740
720
700
680
660
640
620
600

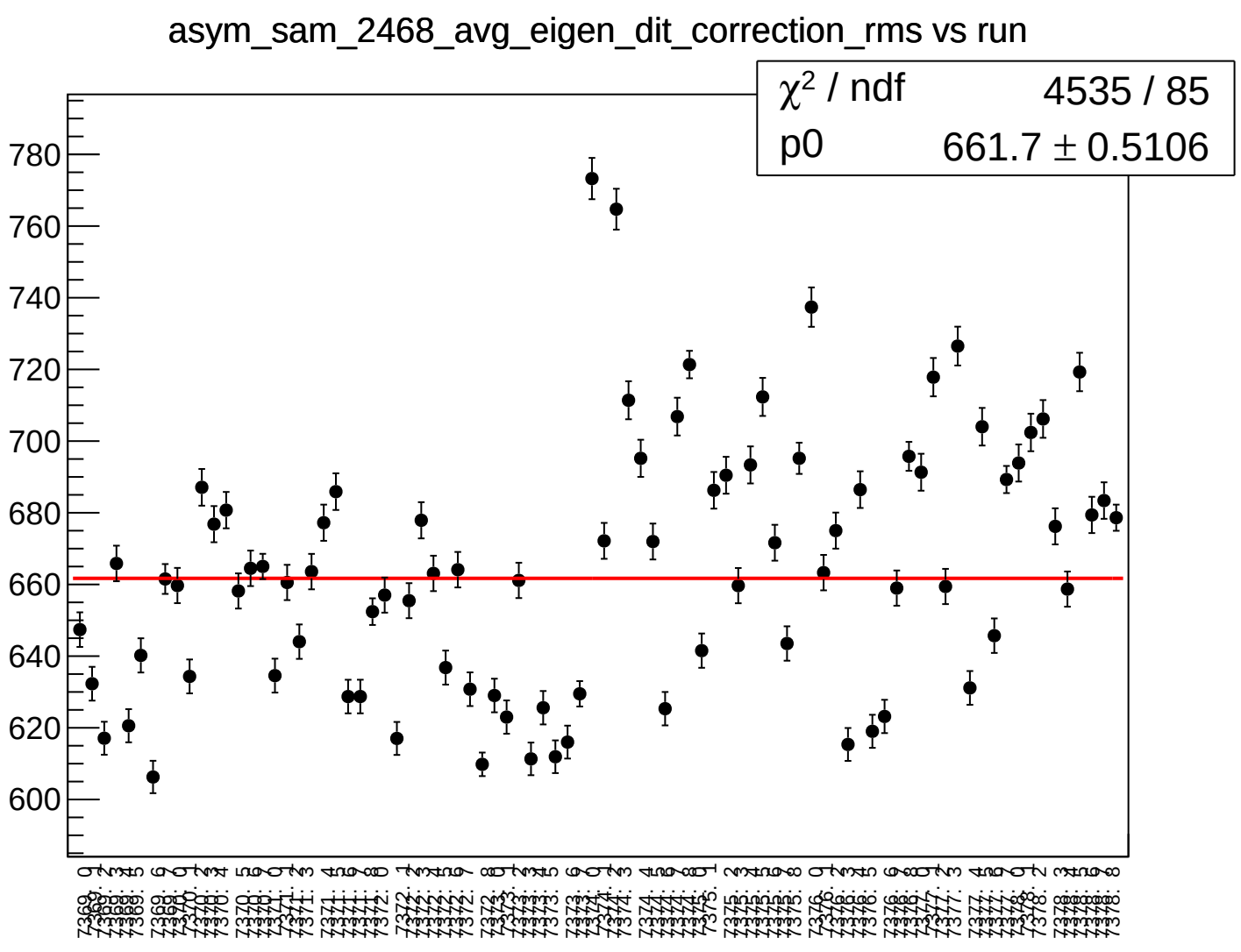

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 111.8 / 85
p0 222.6 ± 217.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −256.4
Std Dev 0
3
2
1
0
−1
−2

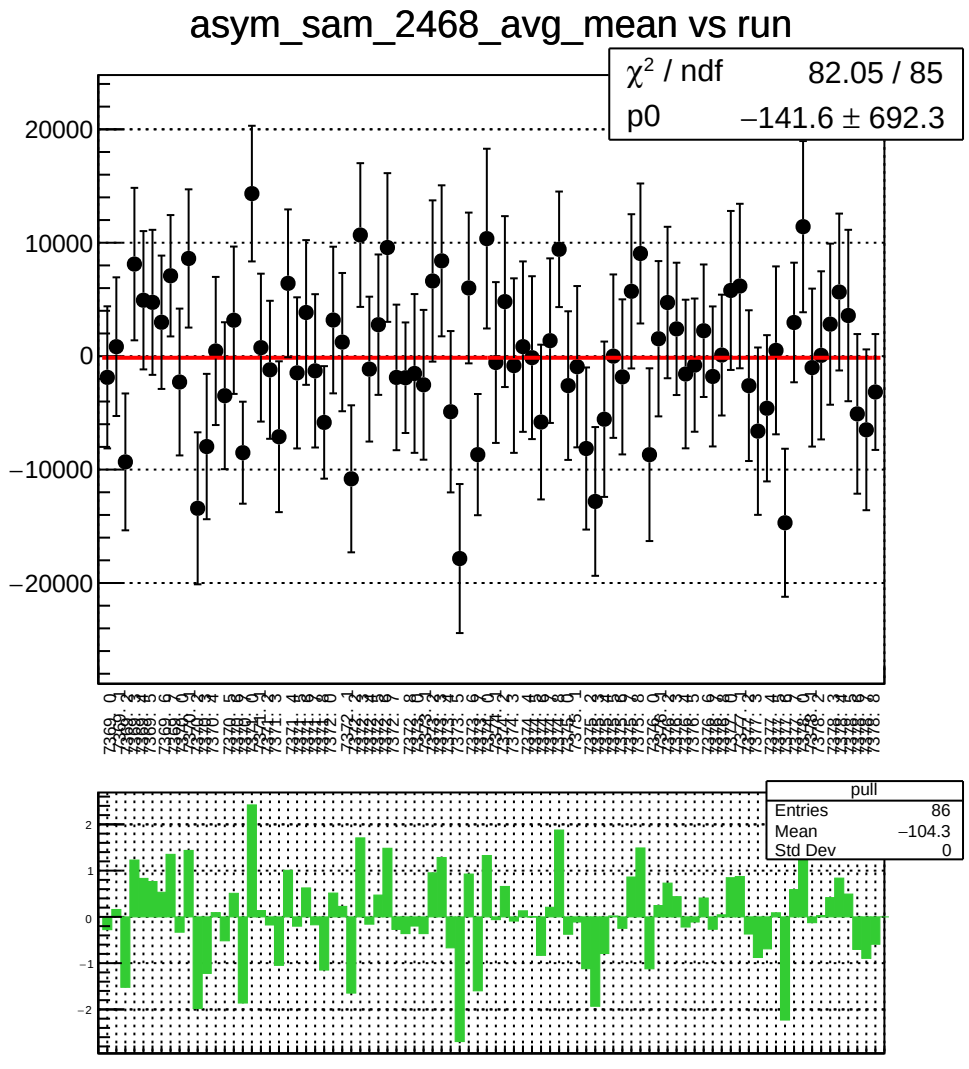

pull1D
Entries 86
Mean 0.006244
Std Dev 1.14
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

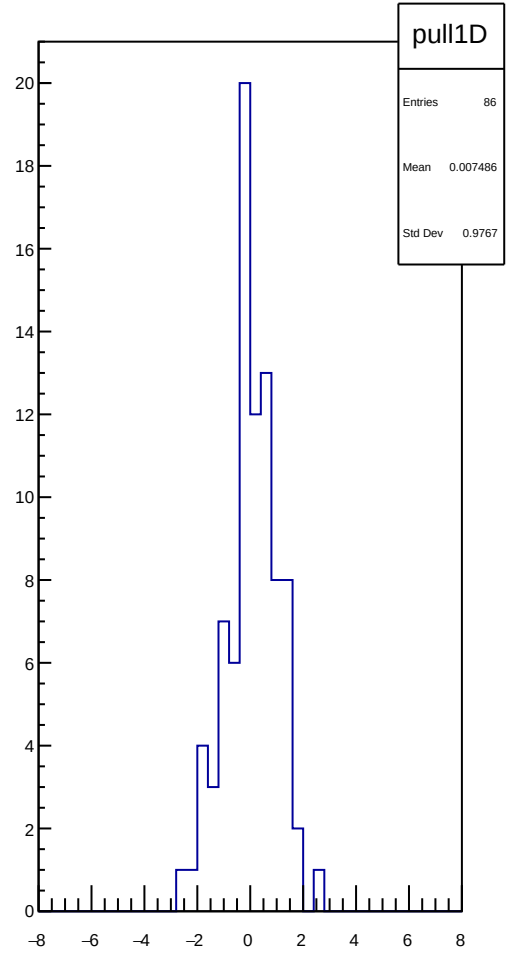

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.612e+05 / 85
p0 189.9 ± 0.1539
350
300
250
200
150
100

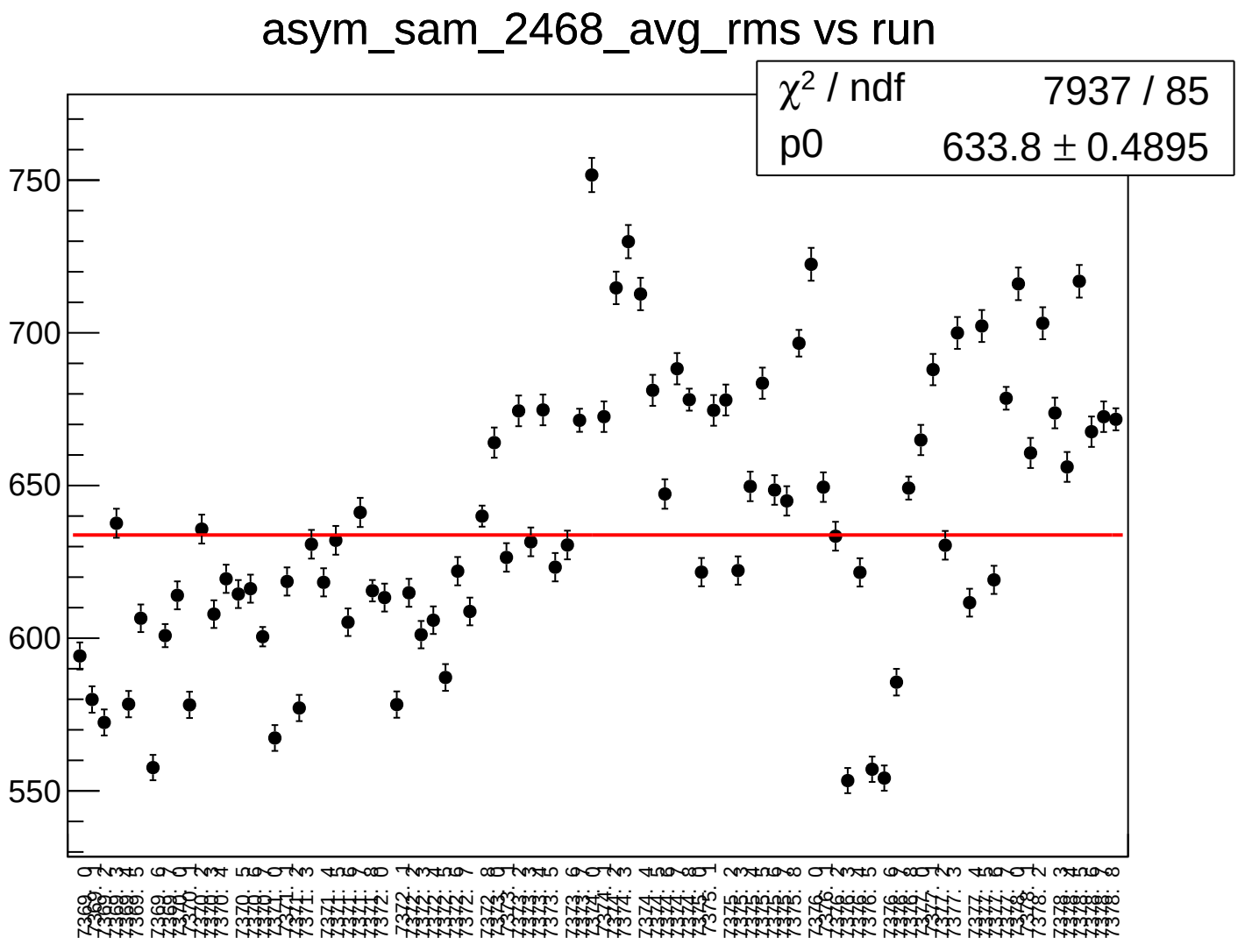

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.9 / 85
p0 404.9 ± 722.1
pull
Entries 86
Mean 3.767
Std Dev 0

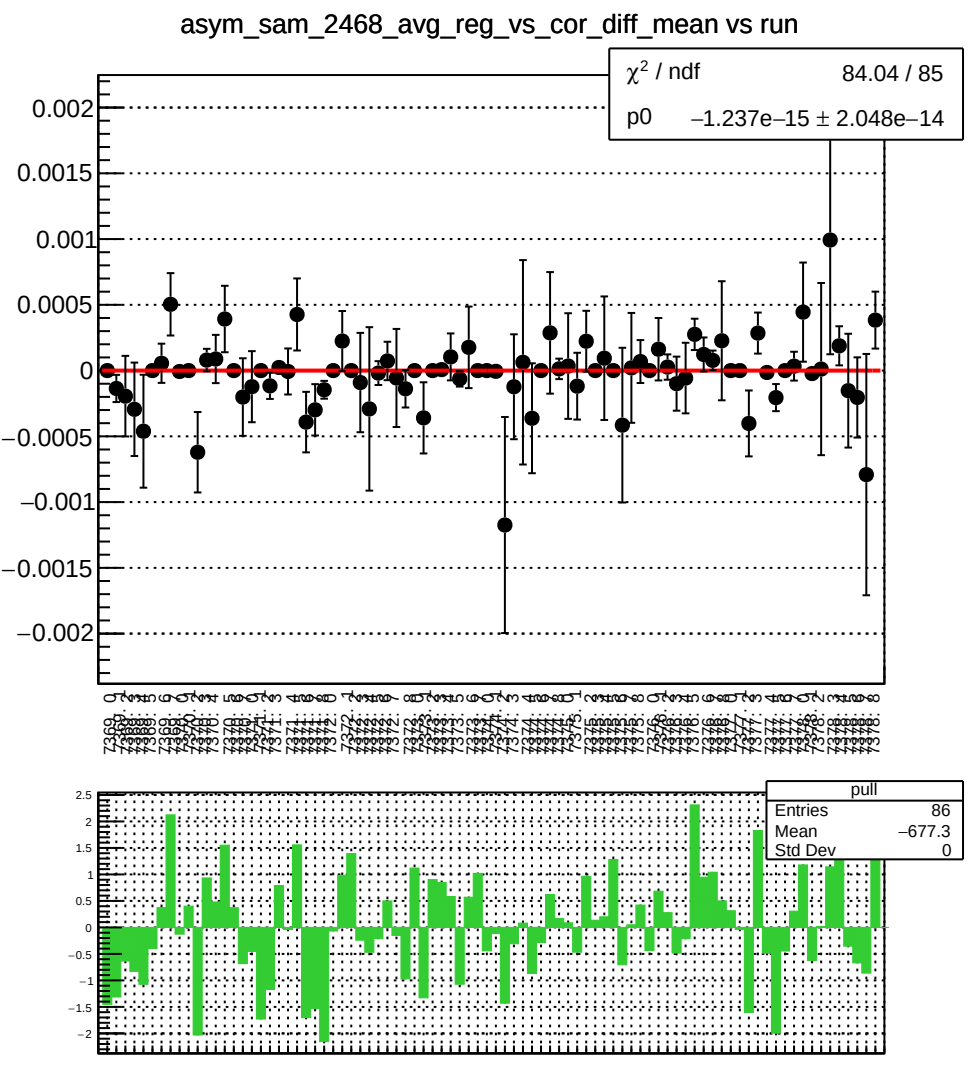

pull1D
Entries 86
Mean −0.01286
Std Dev 1.083

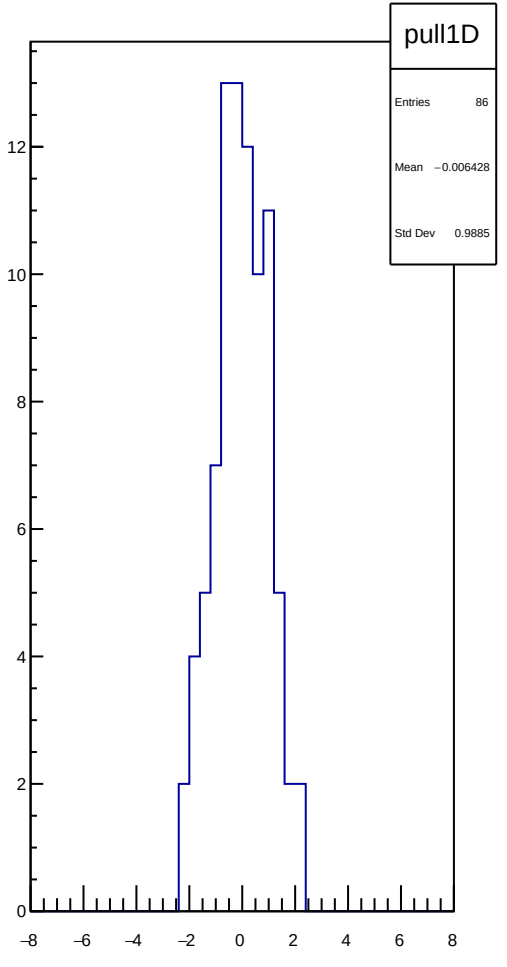

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 4535 / 85
p0 661.7 ± 0.5106
780
760
740
720
700
680
660
640
620
600

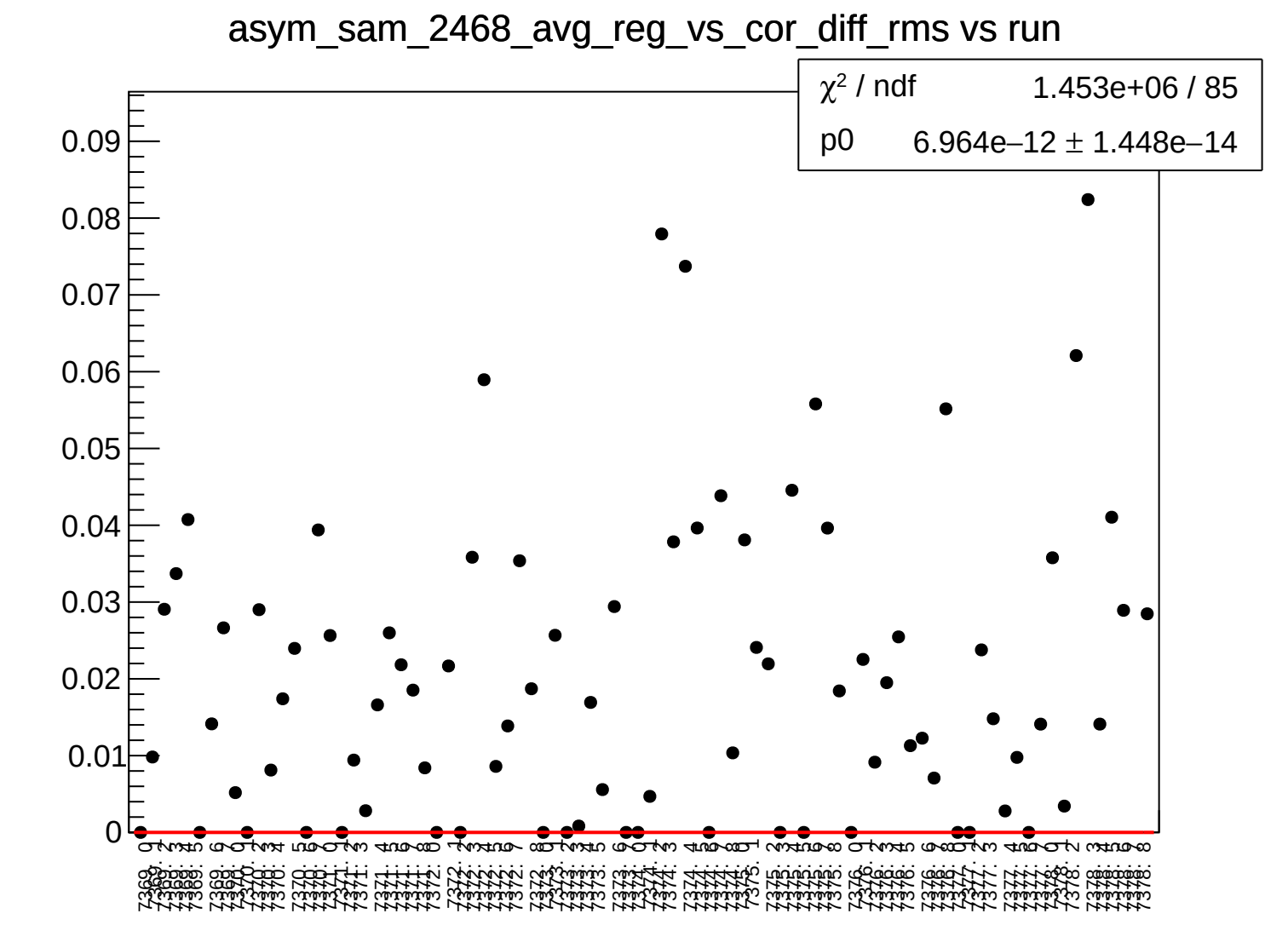

asym_sam_2468_avg_mean vs run
χ² / ndf 82.05 / 85
p0 −141.6 ± 692.3
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −104.3
Std Dev 0
2
1
0
−1
−2

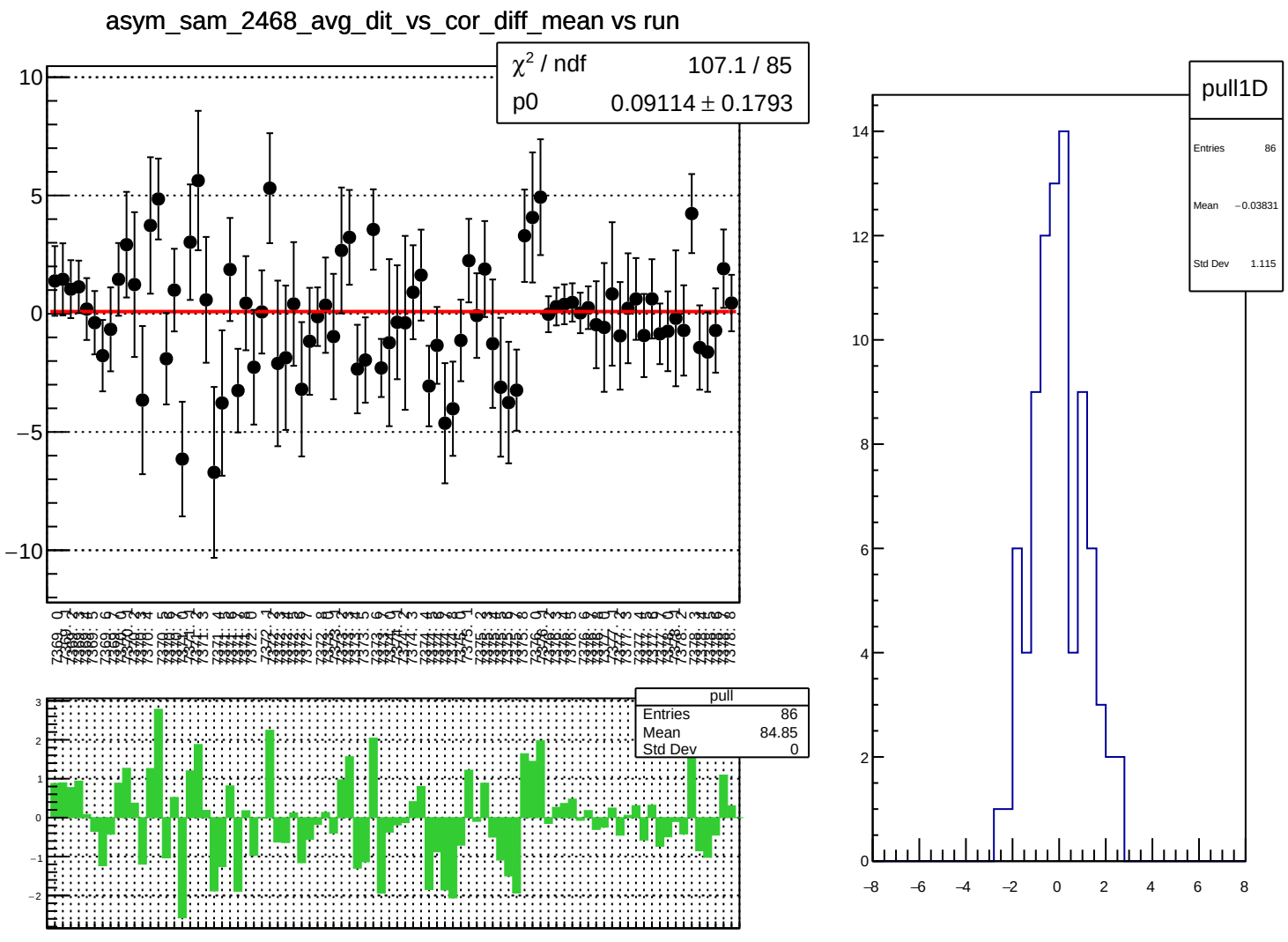

pull1D
Entries 86
Mean 0.007486
Std Dev 0.9767
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

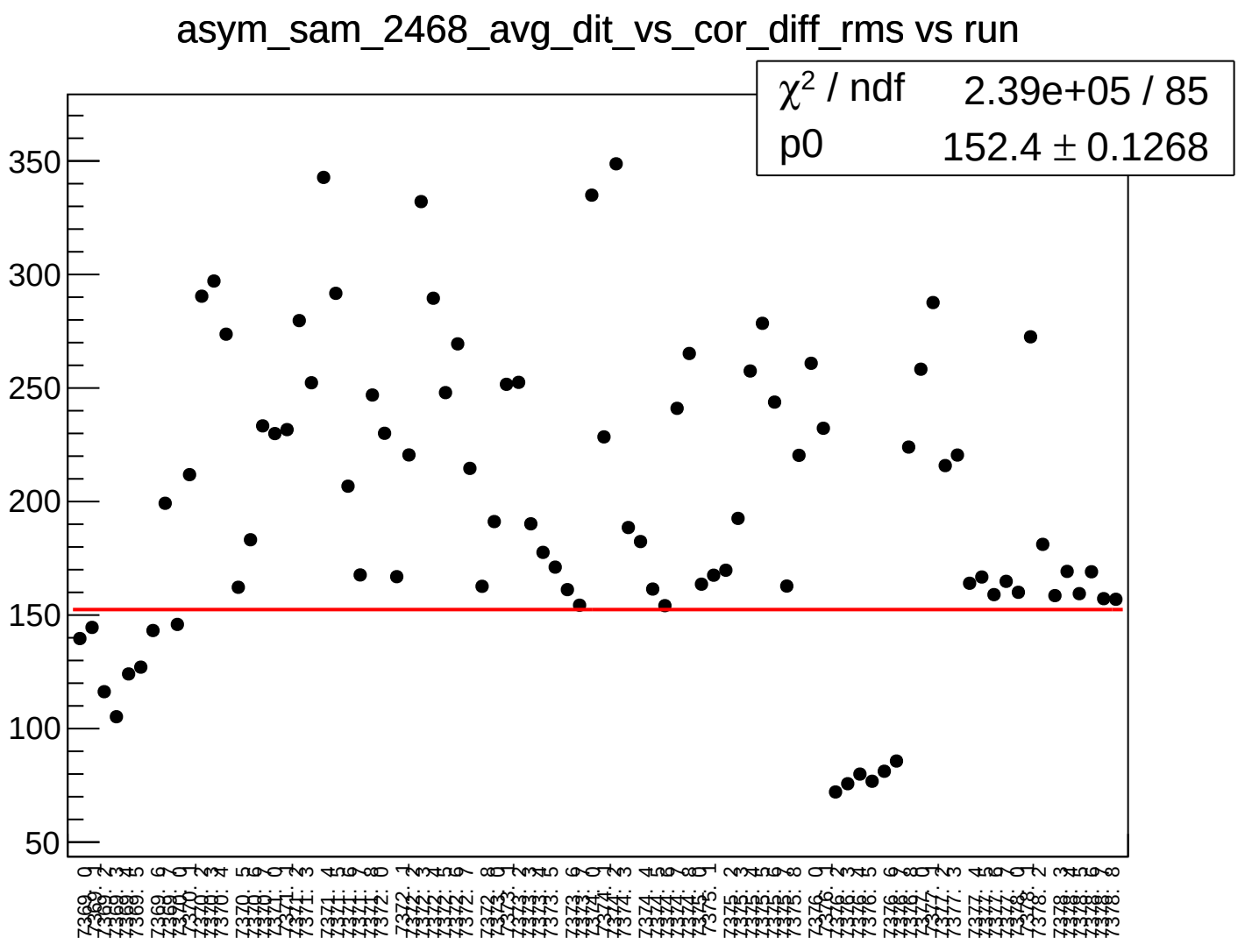

asym_sam_2468_avg_rms vs run
χ² / ndf 7937 / 85
p0 633.8 ± 0.4895
750
700
650
600
550

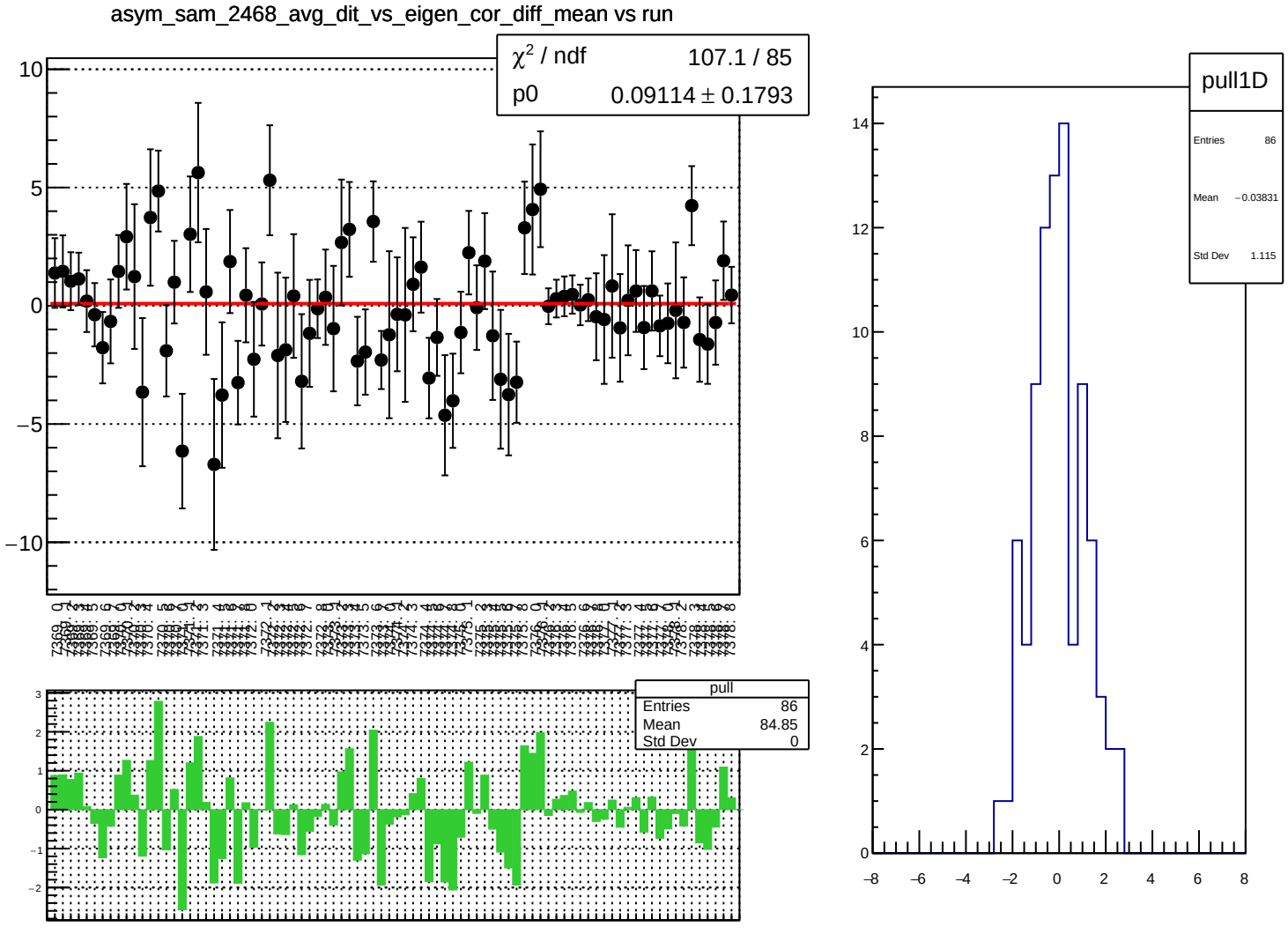

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.04 / 85
p0 −1.237e−15 ± 2.048e−14
pull
Entries 86
Mean −677.3
Std Dev 0

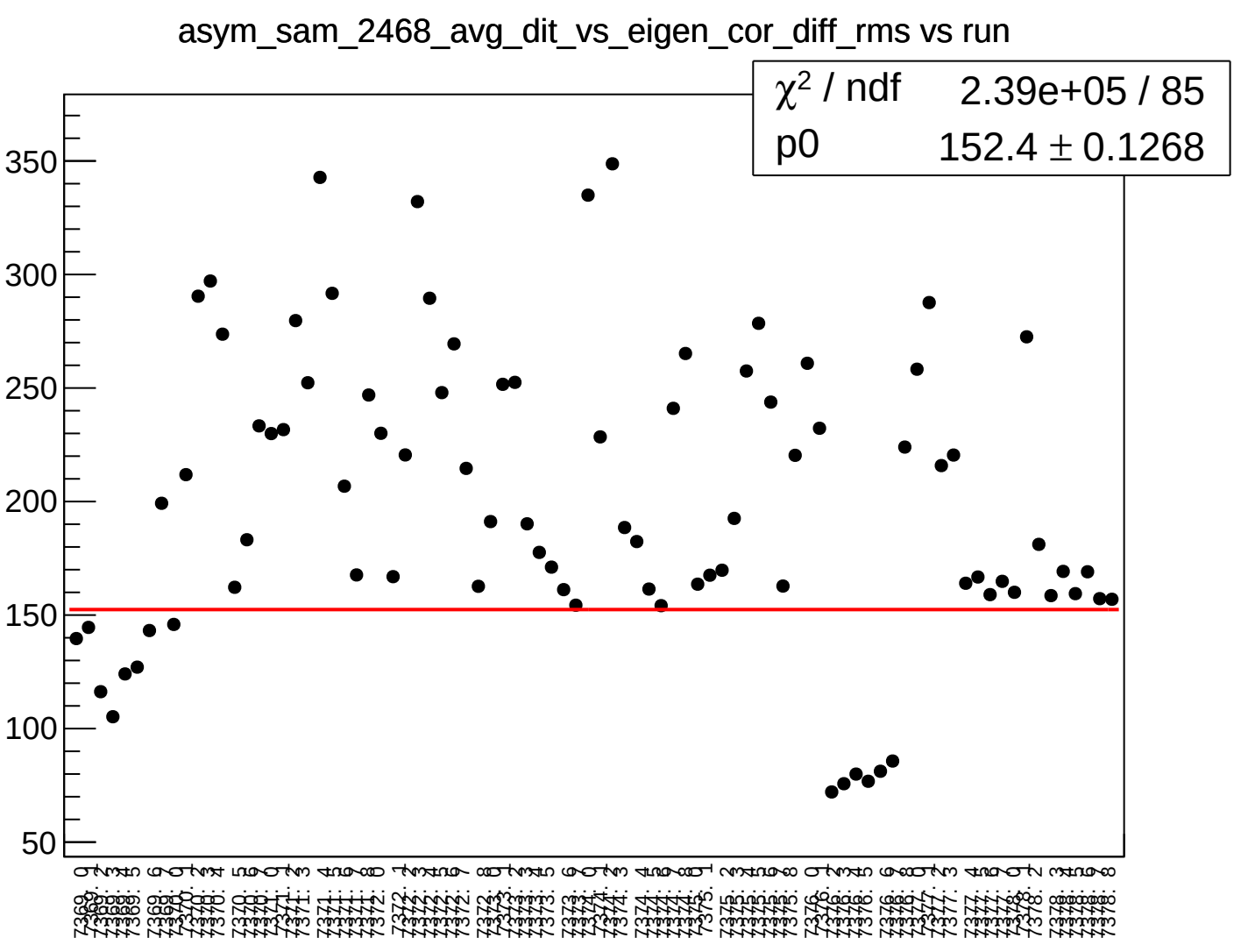

pull1D
Entries 86
Mean −0.006428
Std Dev 0.9885

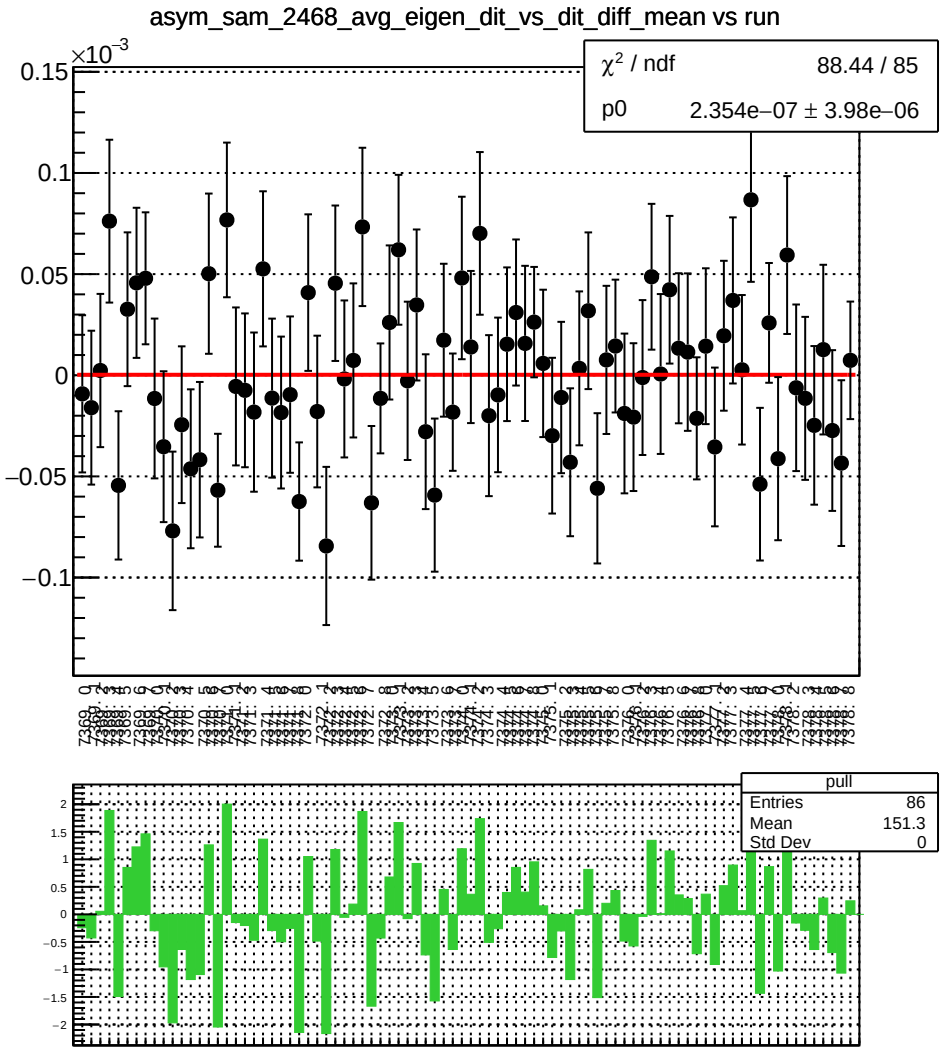

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.453e+06 / 85
p0 6.964e−12 ± 1.448e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

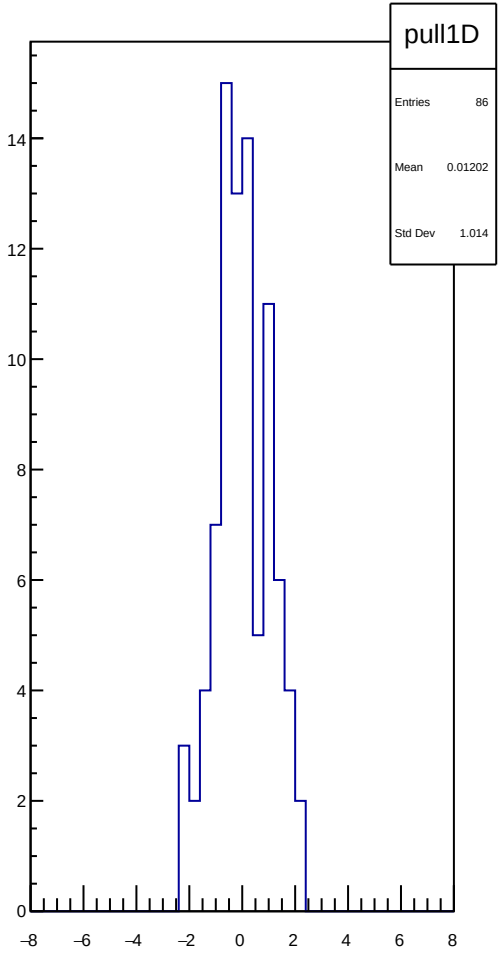

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 85
p0 0.09114 ± 0.1793
pull
Entries 86
Mean 84.85
Std Dev 0
pull1D
Entries 86
Mean −0.03831
Std Dev 1.115

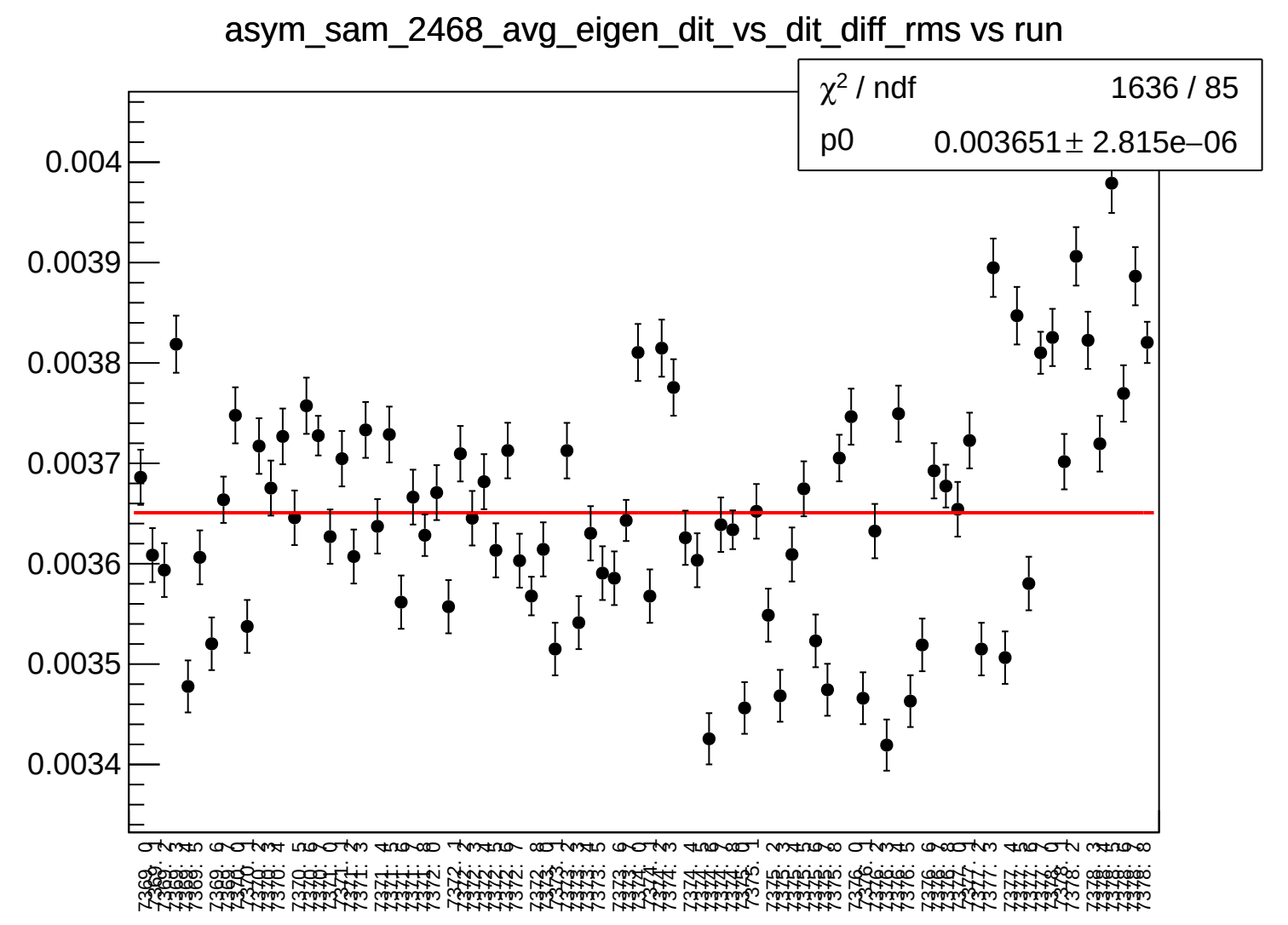

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.39e+05 / 85
p0 152.4 ± 0.1268
350
300
250
200
150
100
50

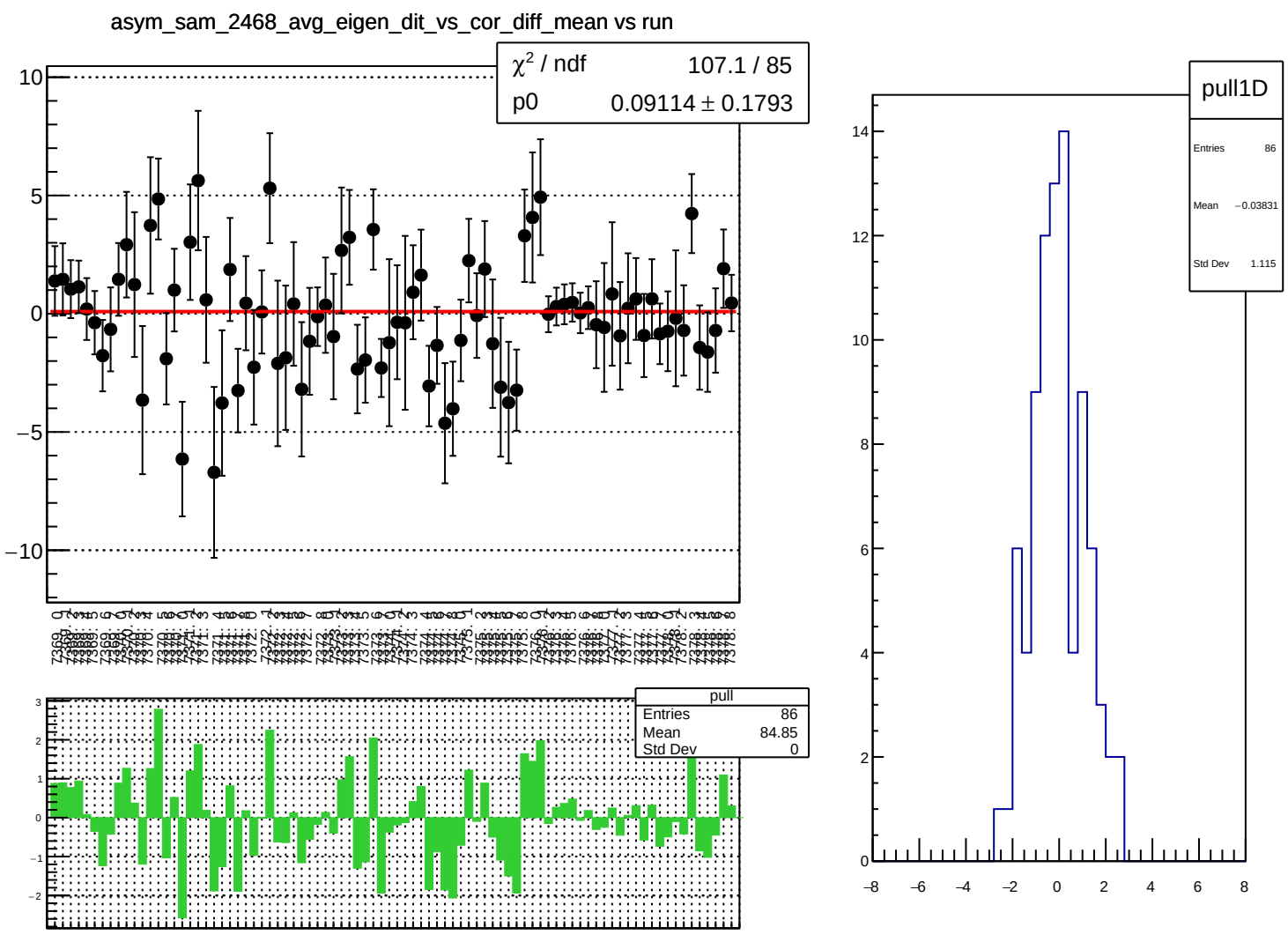

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.1 / 85
p0 0.09114 ± 0.1793
pull
Entries 86
Mean 84.85
Std Dev 0
pull1D
Entries 86
Mean −0.03831
Std Dev 1.115

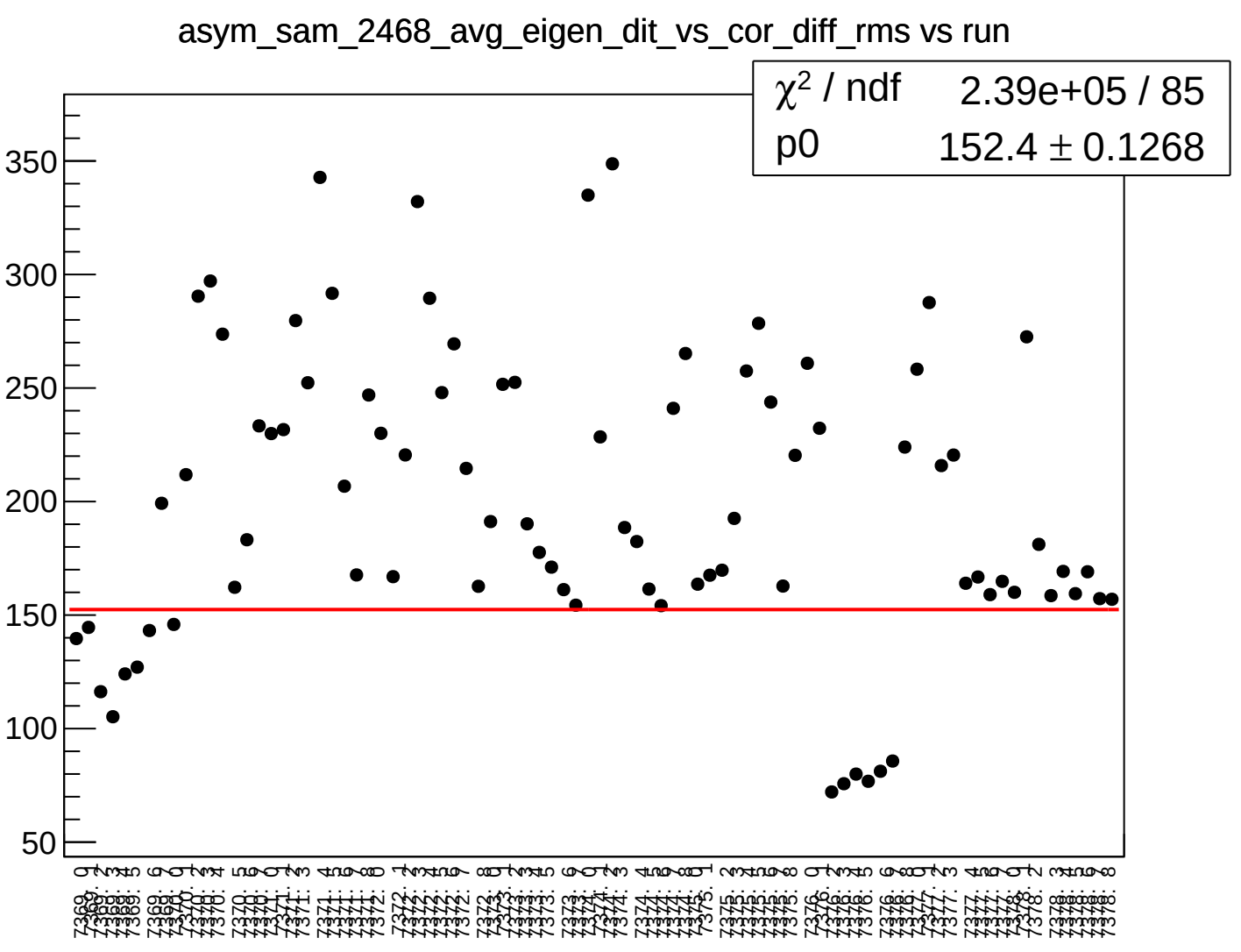

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.39e+05 / 85
p0 152.4 ± 0.1268
350
300
250
200
150
100
50

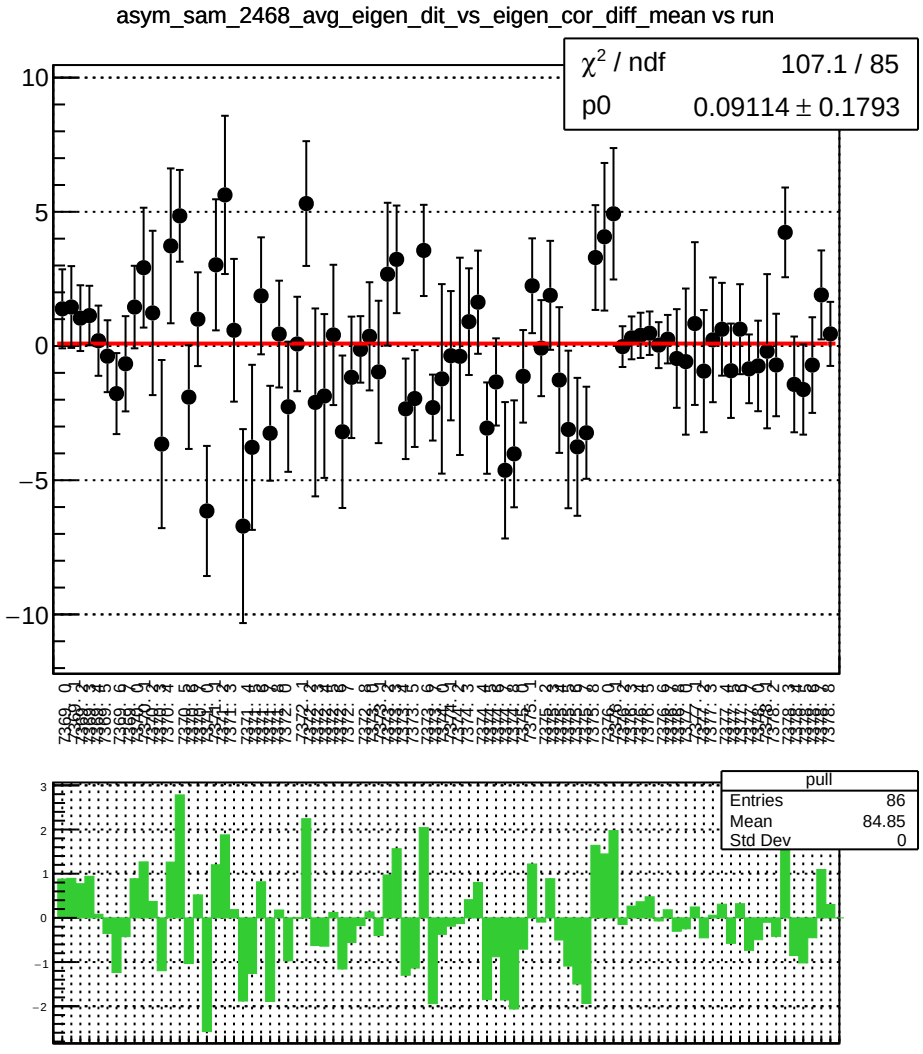

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.44 / 85
p0 2.354e−07 ± 3.98e−06
pull
Entries 86
Mean 151.3
Std Dev 0

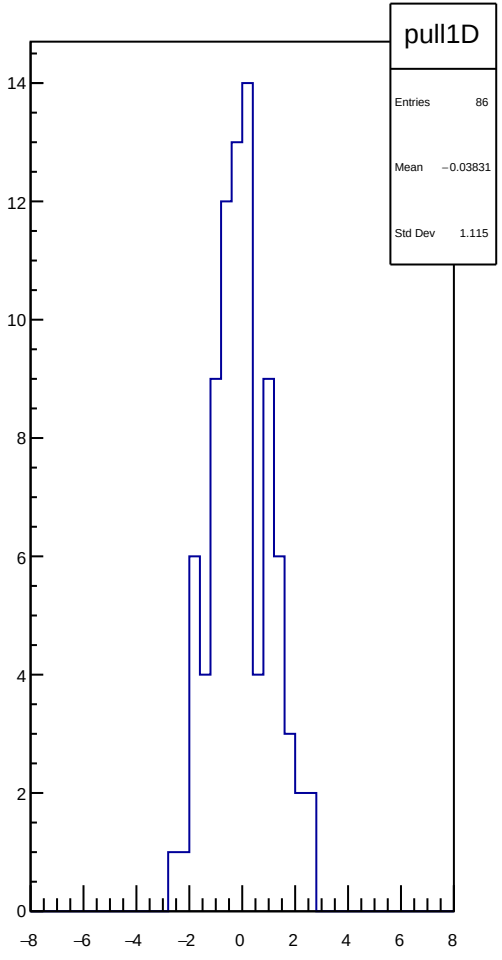

pull1D
Entries 86
Mean 0.01202
Std Dev 1.014

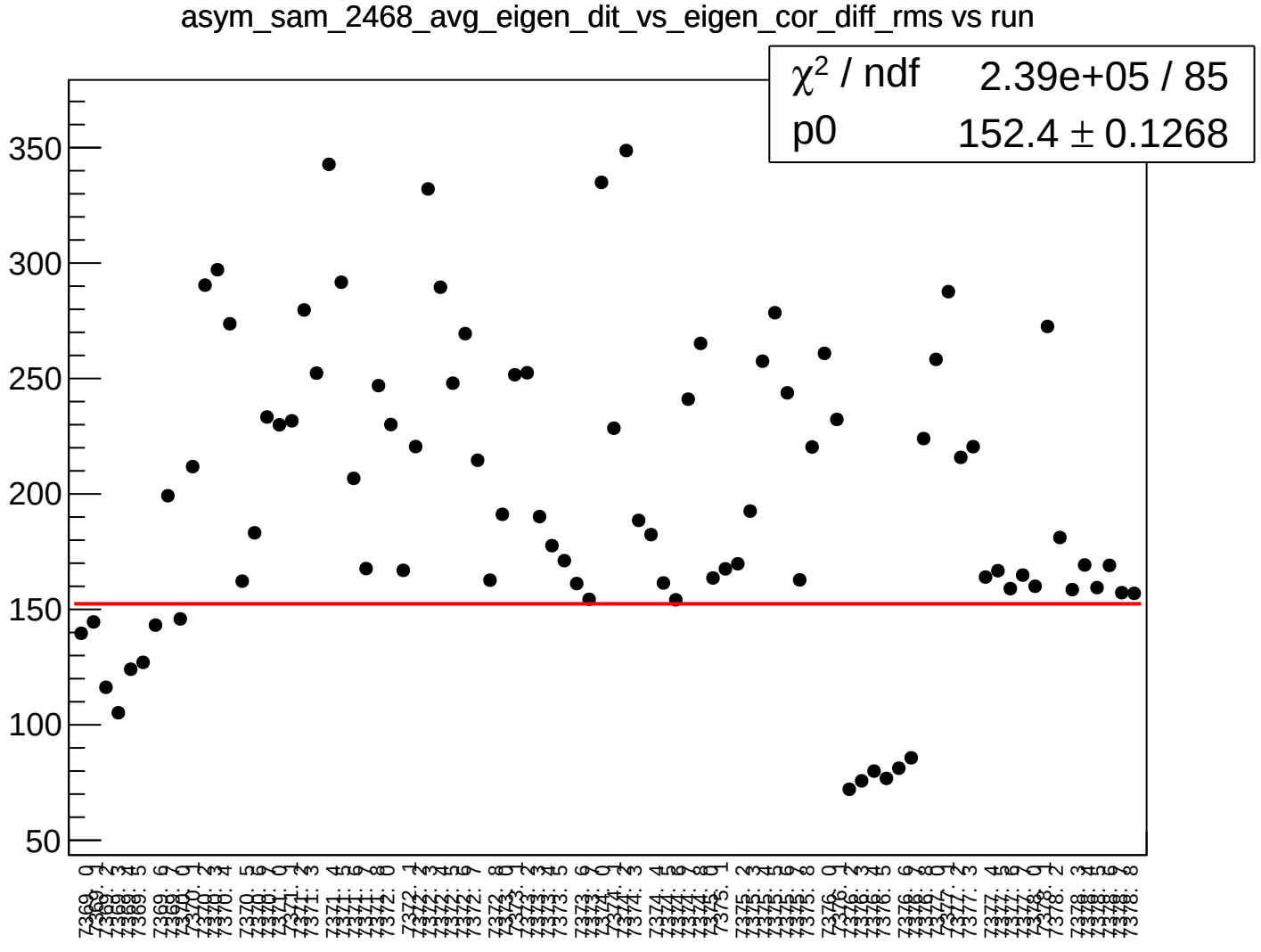

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1636 / 85
p0 0.003651 ± 2.815e−06
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034

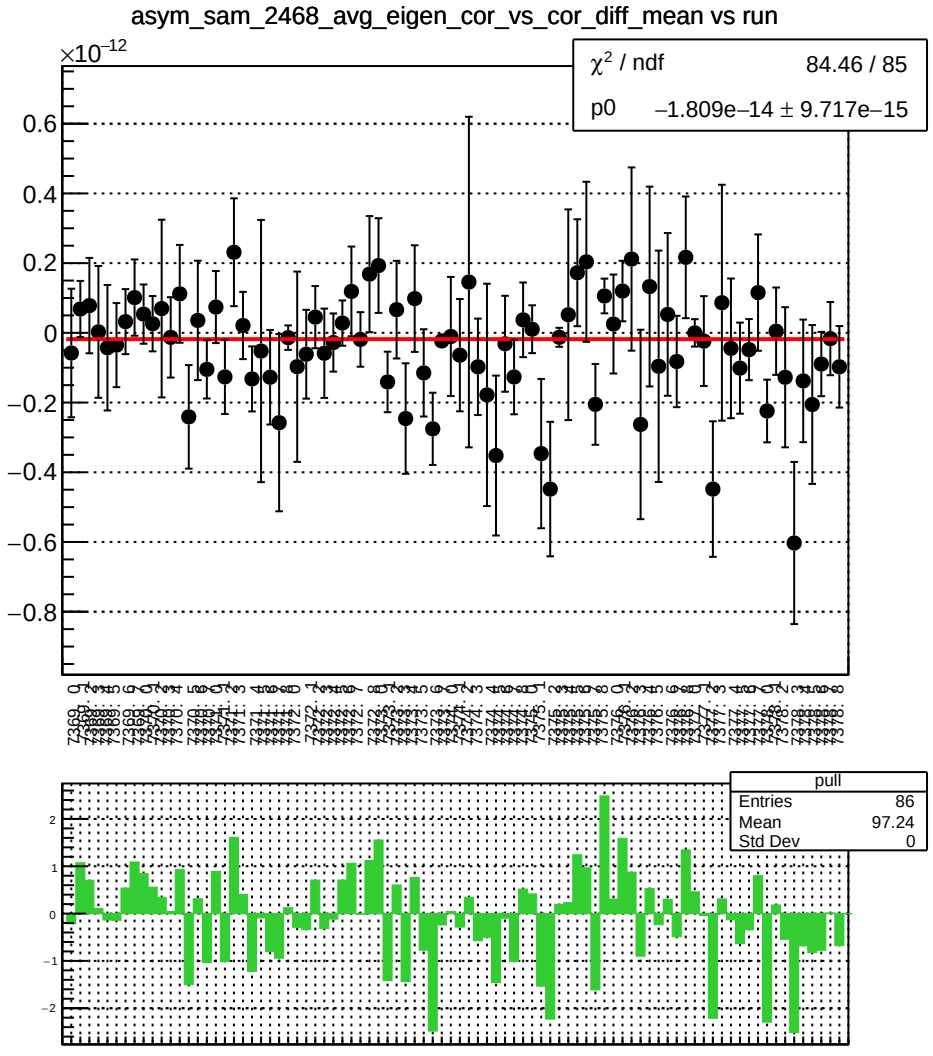

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 85
p0 0.09114 ± 0.1793
pull
Entries 86
Mean 84.85
Std Dev 0
pull1D
Entries 86
Mean −0.03831
Std Dev 1.115

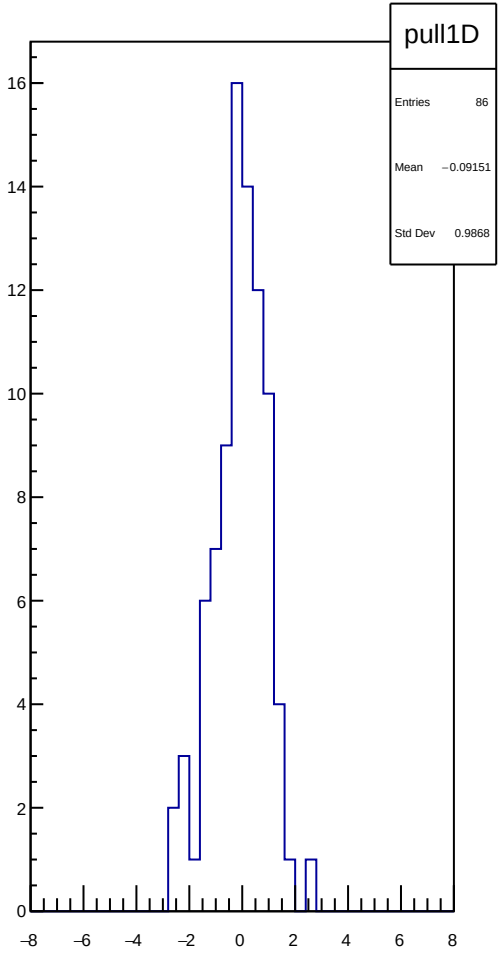

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.39e+05 / 85
p0 152.4 ± 0.1268
350
300
250
200
150
100
50

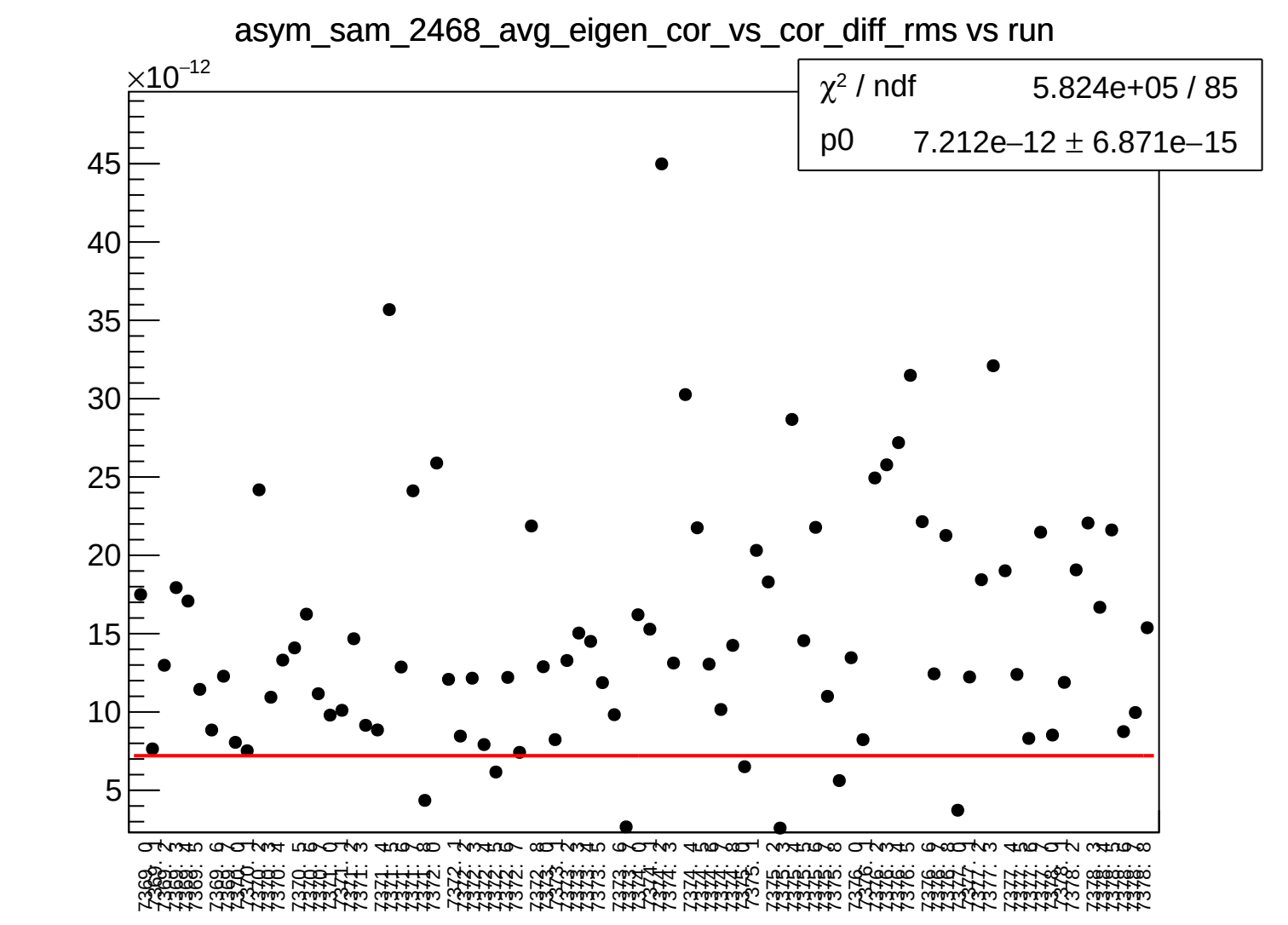

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.1 / 85
p0 0.09114 ± 0.1793
pull
Entries 86
Mean 84.85
Std Dev 0

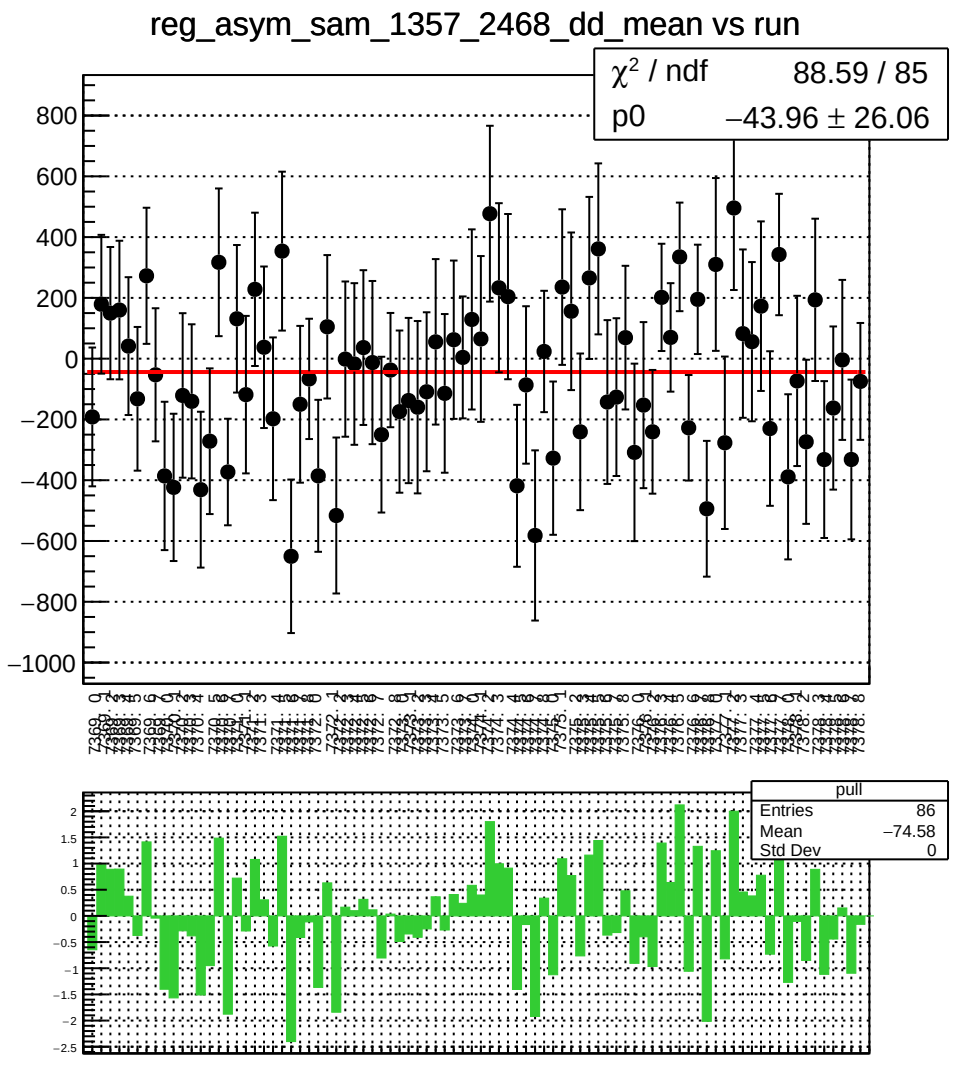

pull1D
Entries 86
Mean −0.03831
Std Dev 1.115

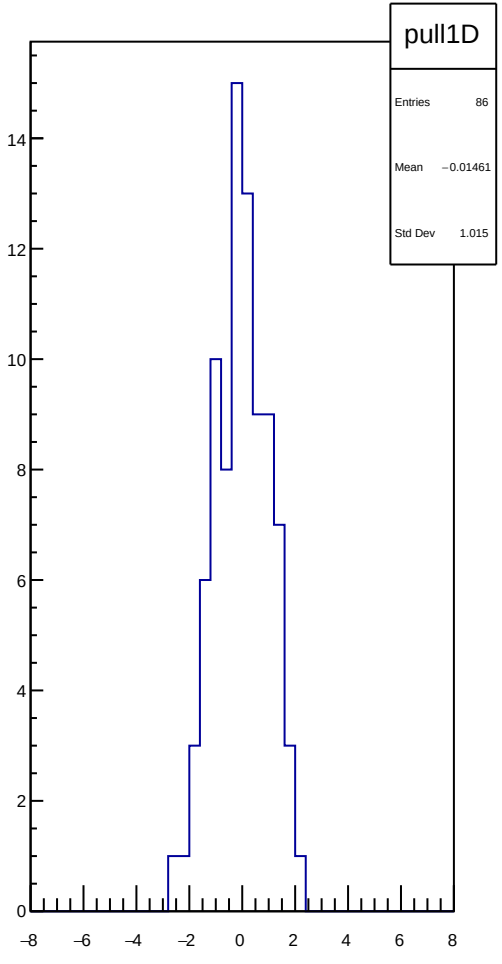

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.39e+05 / 85
p0 152.4 ± 0.1268
350
300
250
200
150
100
50

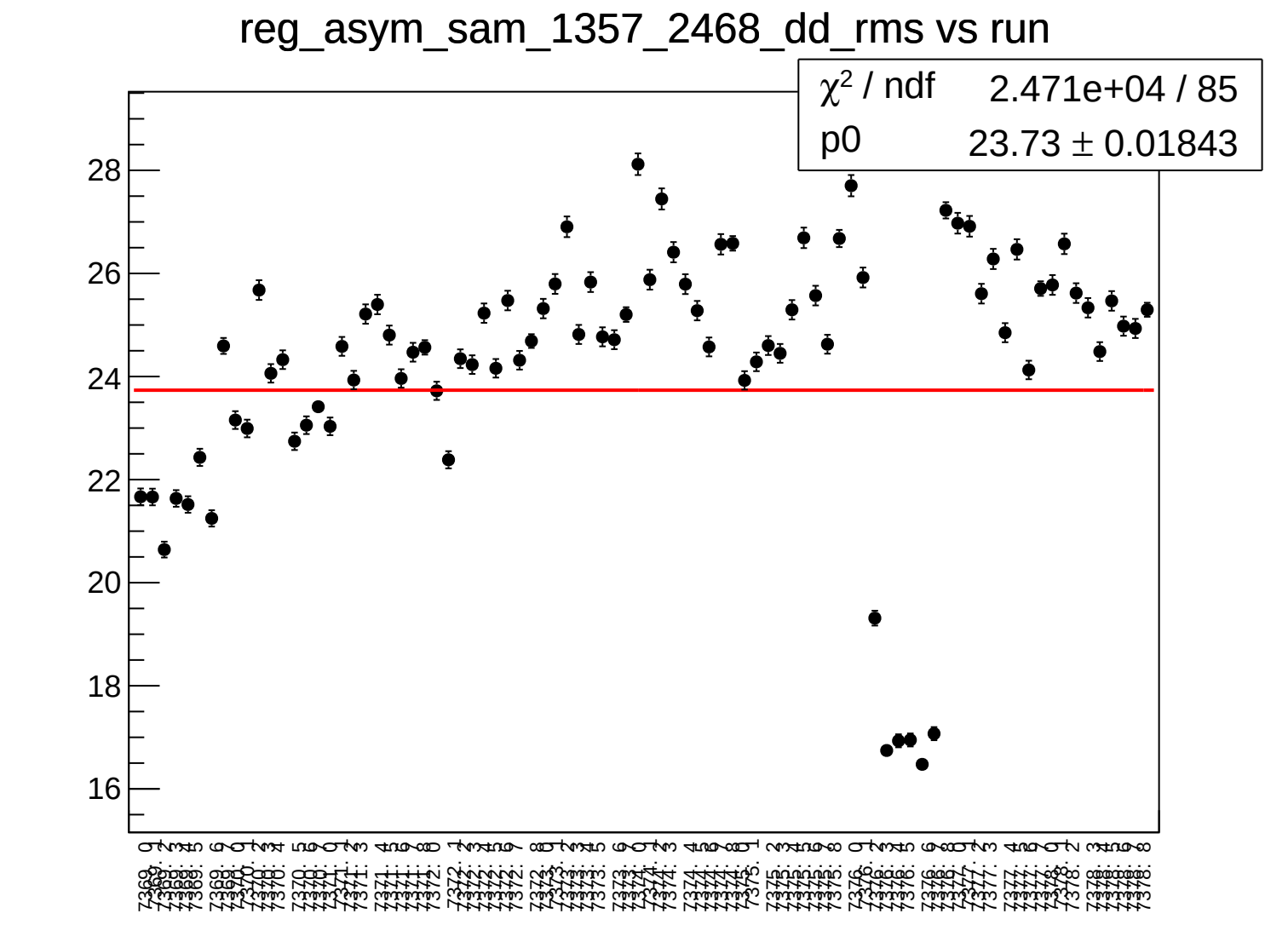

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.46 / 85
p0 −1.809e−14 ± 9.717e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 86
Mean 97.24
Std Dev 0
2
1
0
−1
−2

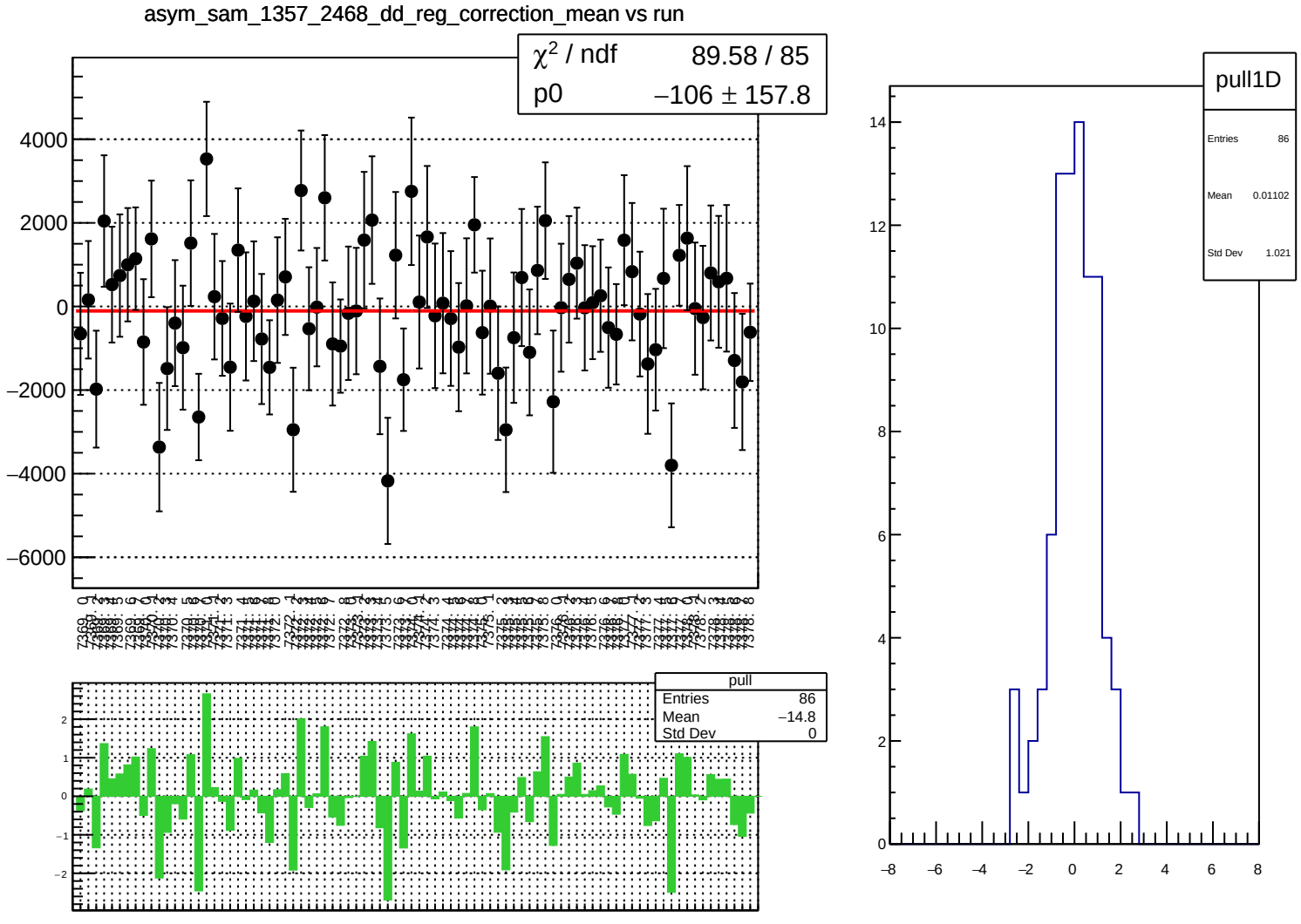

pull1D
Entries 86
Mean −0.09151
Std Dev 0.9868
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

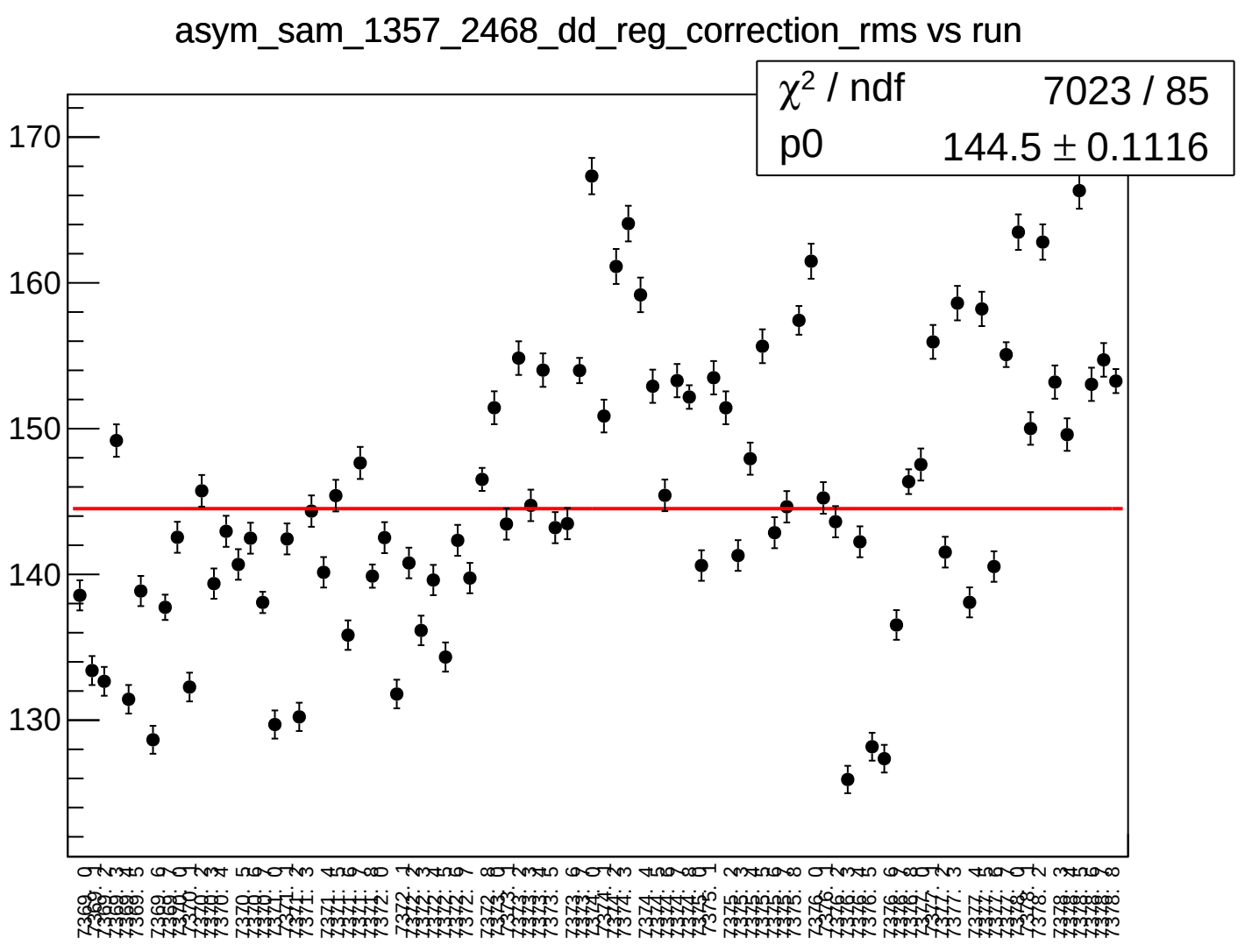

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.824e+05 / 85
p0 7.212e−12 ± 6.871e−15
45
40
35
30
25
20
15
10
5

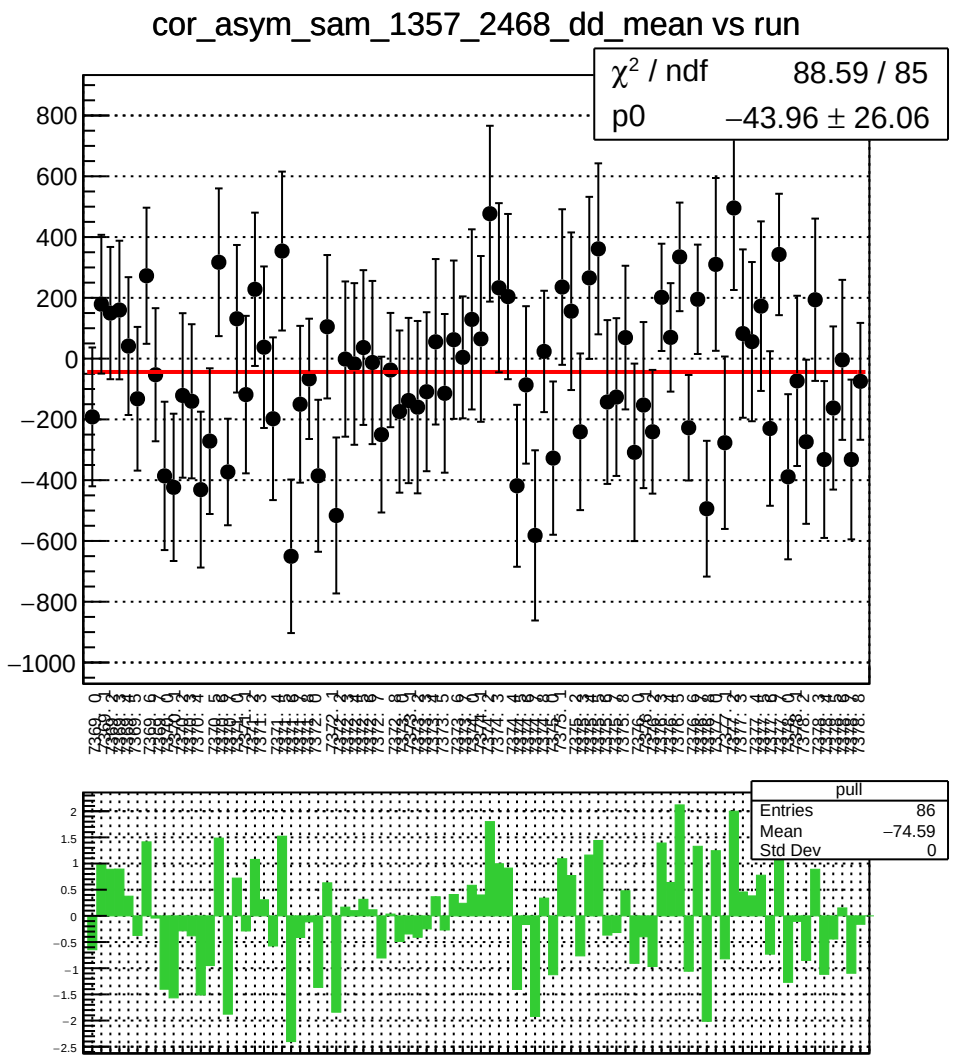

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 88.59 / 85
p0 −43.96 ± 26.06
pull
Entries 86
Mean −74.58
Std Dev 0

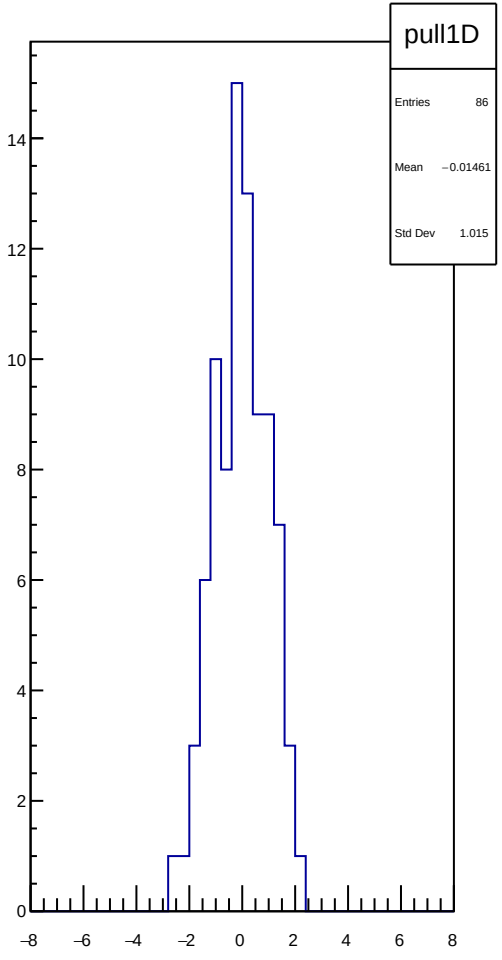

pull1D
Entries 86
Mean −0.01461
Std Dev 1.015

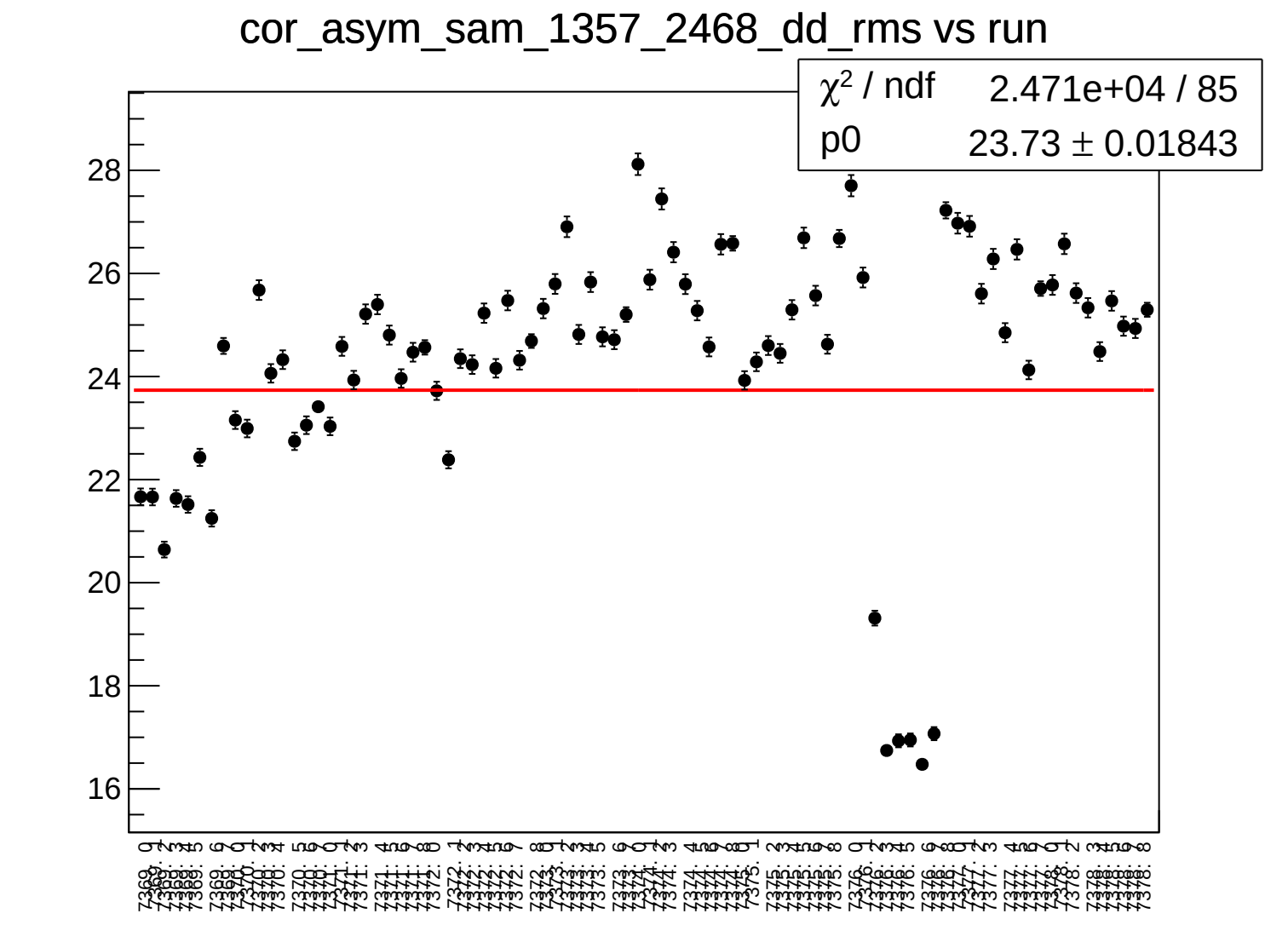

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.471e+04 / 85
p0 23.73 ± 0.01843
28
26
24
22
20
18
16

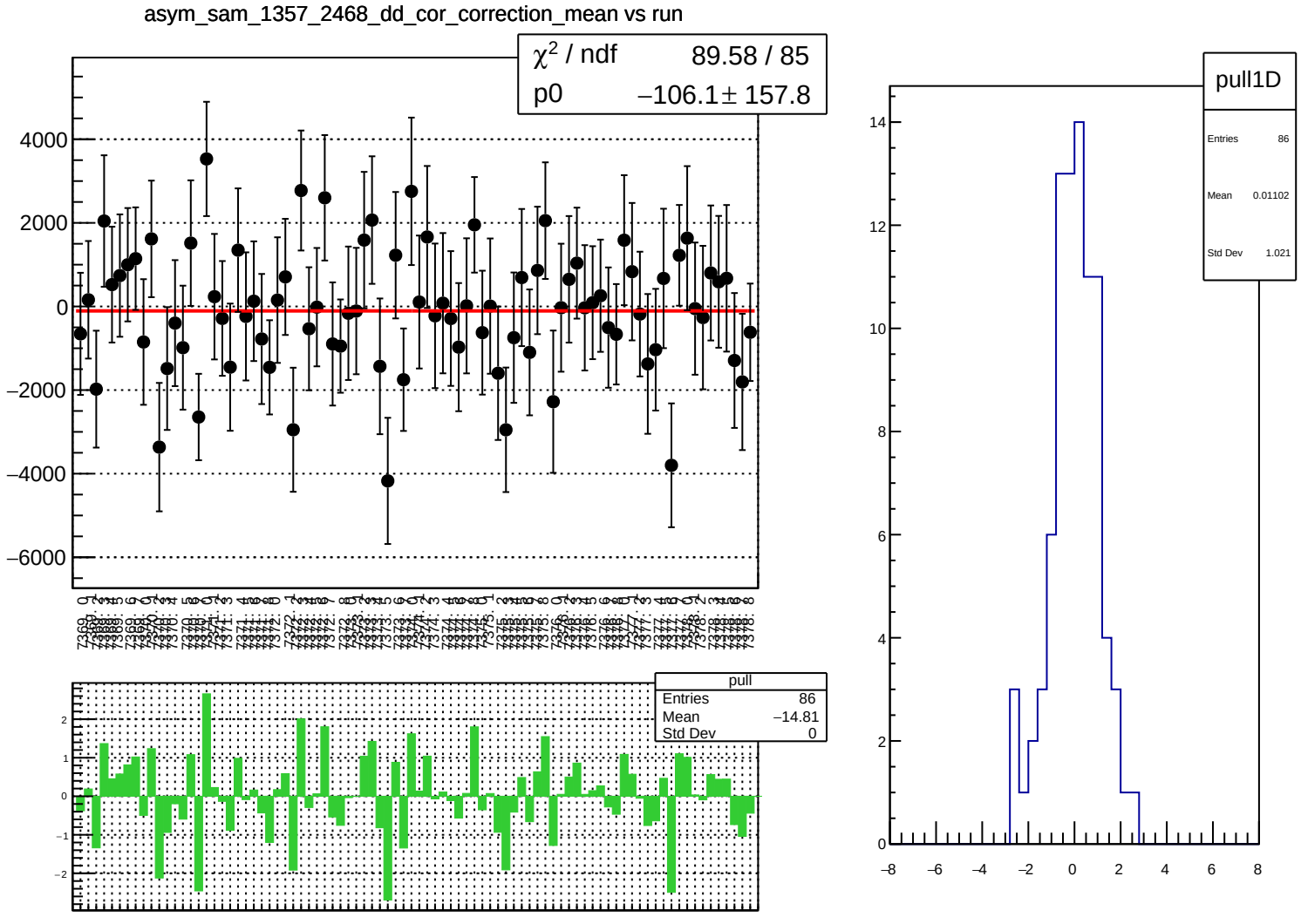

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 89.58 / 85
p0 −106 ± 157.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −14.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01102
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

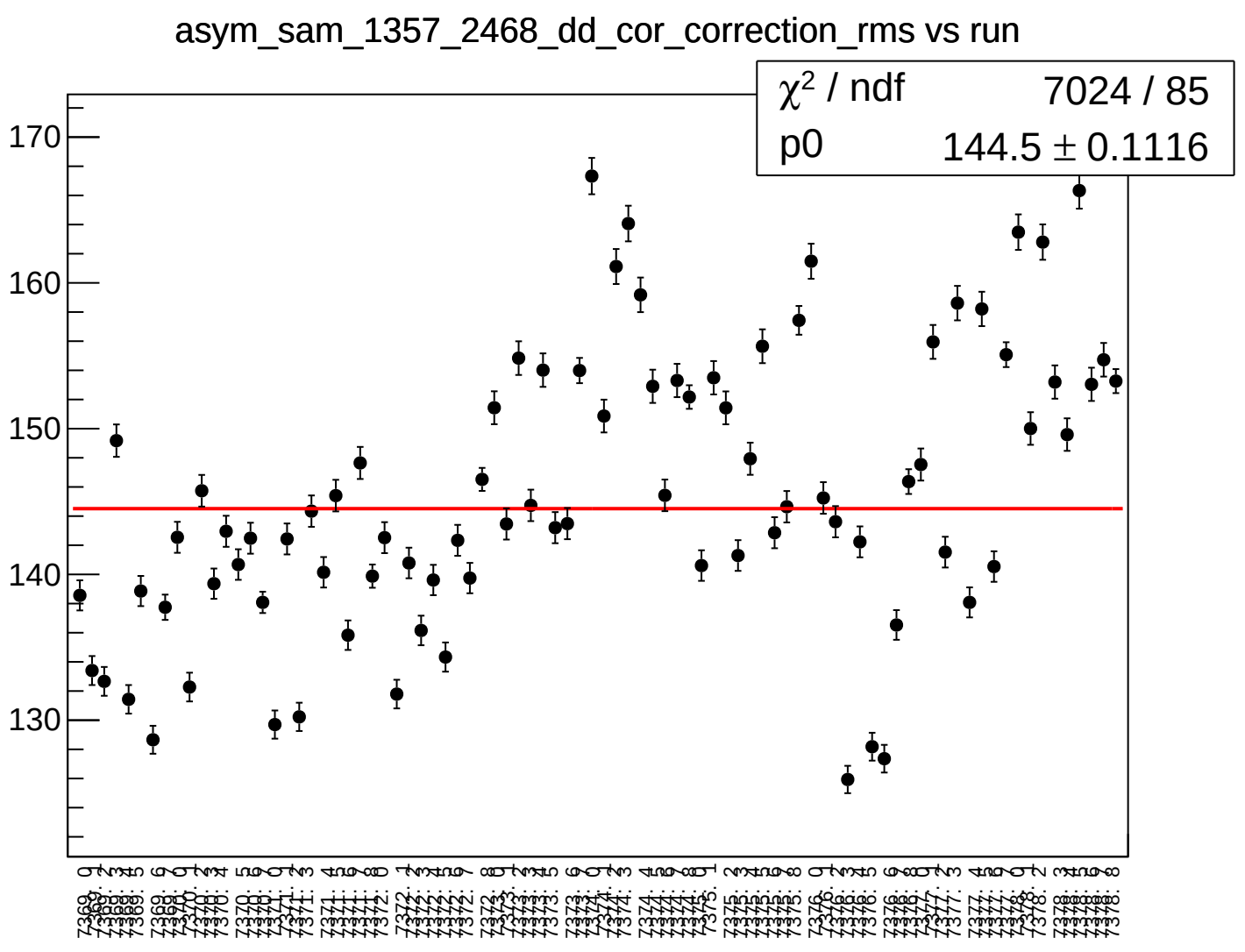

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 7023 / 85
p0 144.5 ± 0.1116
170
160
150
140
130

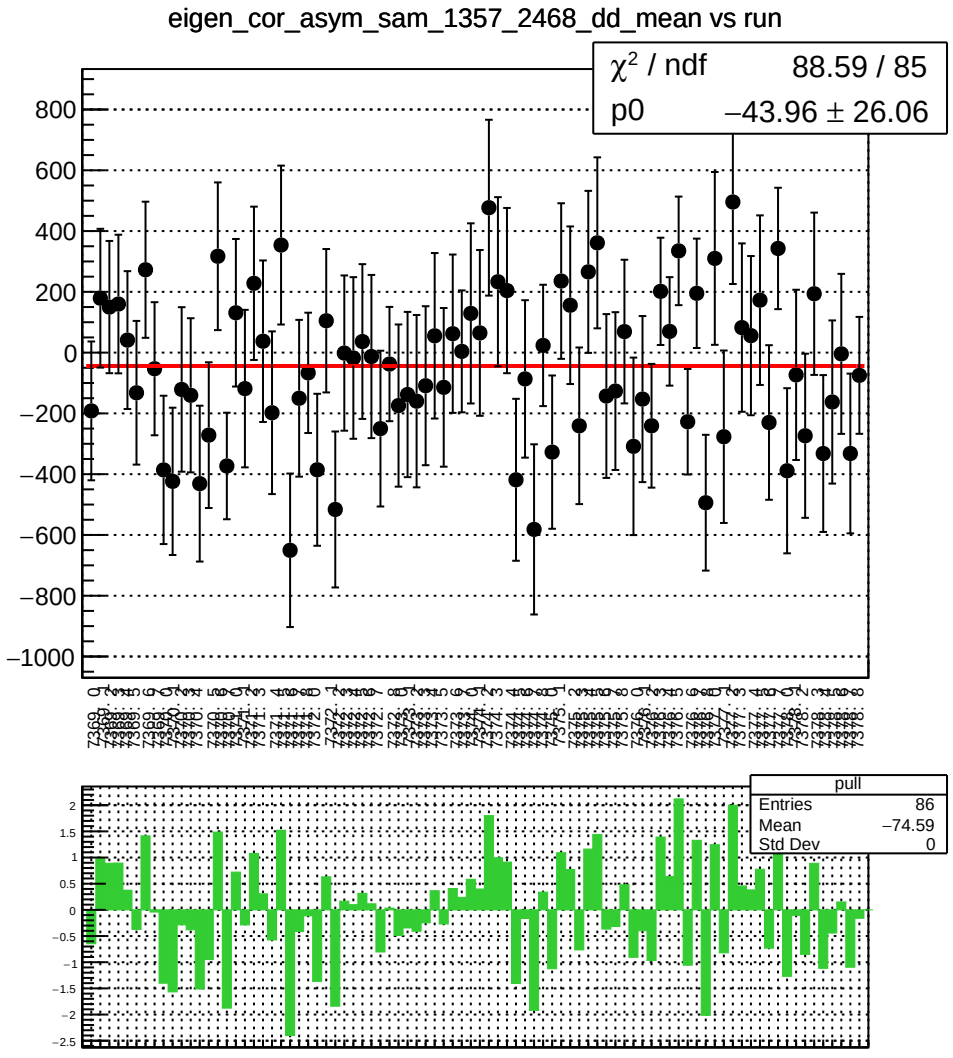

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 88.59 / 85
p0 −43.96 ± 26.06
pull
Entries 86
Mean −74.59
Std Dev 0

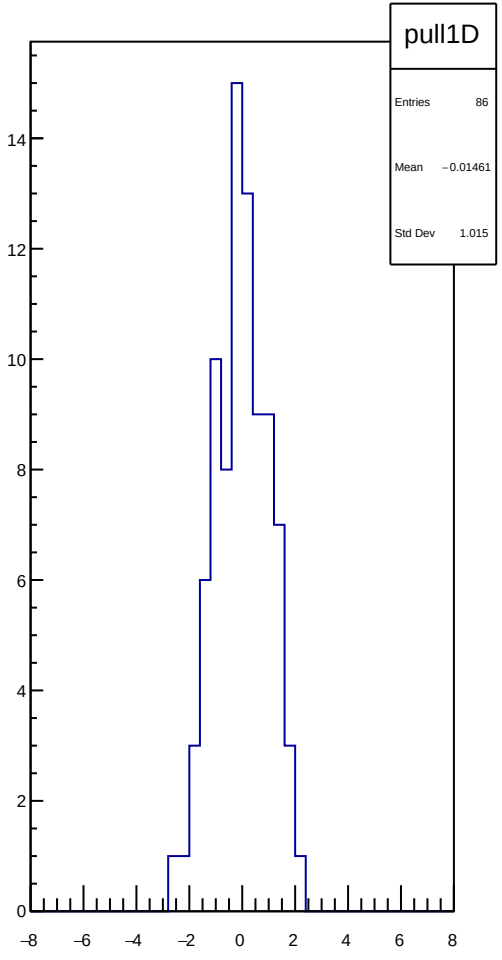

pull1D
Entries 86
Mean −0.01461
Std Dev 1.015

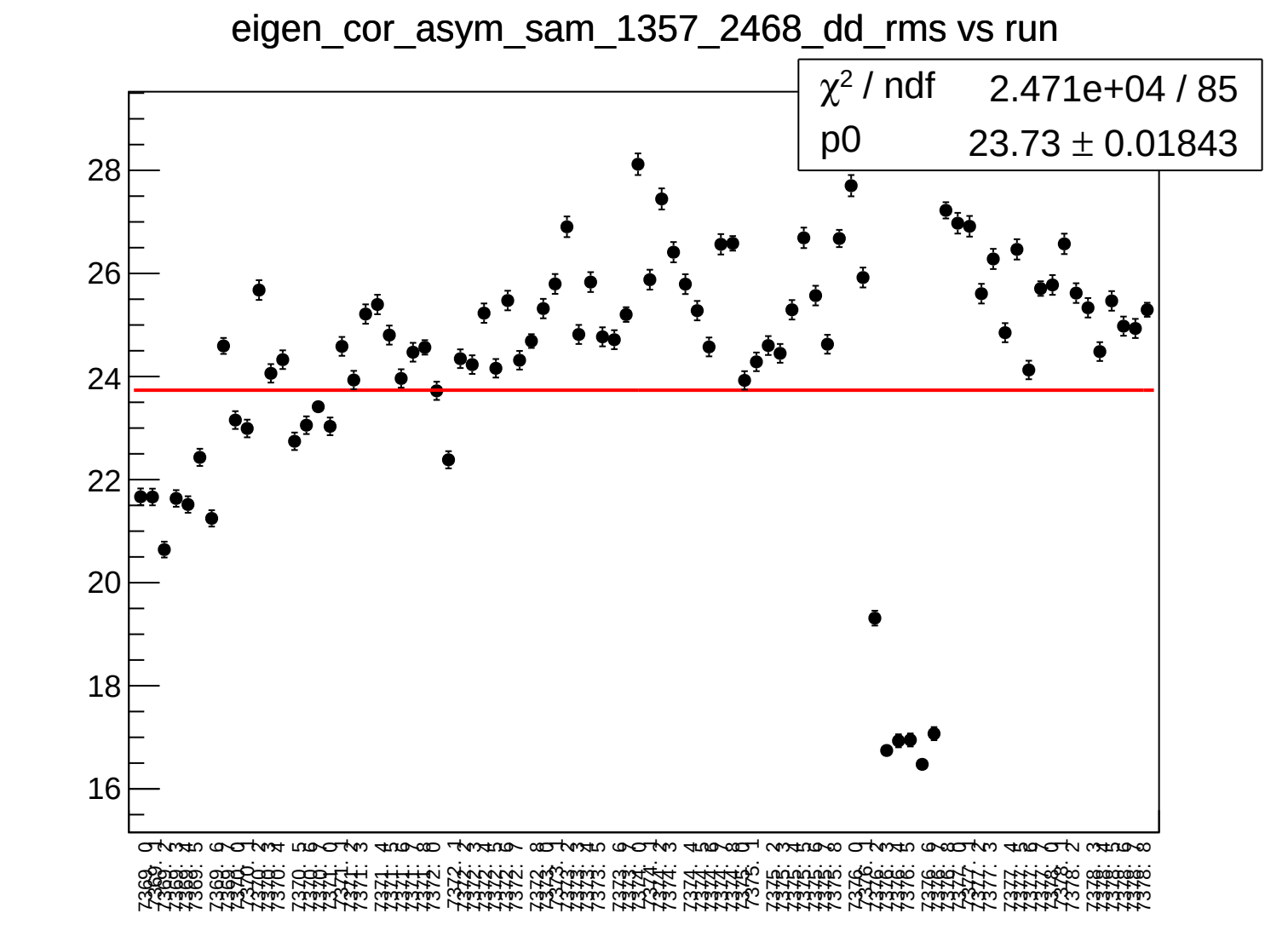

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.471e+04 / 85
p0 23.73 ± 0.01843
28
26
24
22
20
18
16

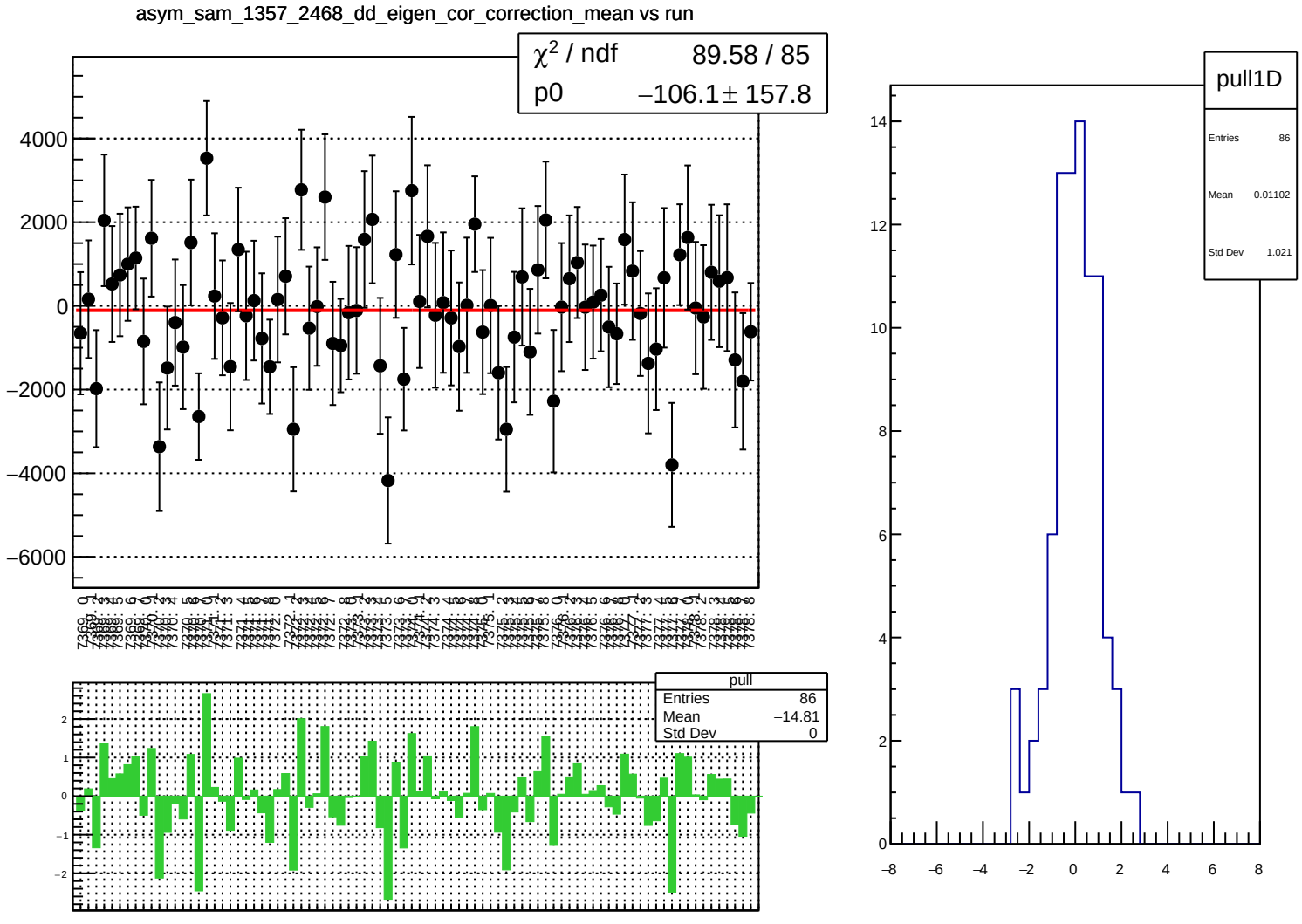

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 89.58 / 85
p0 −106.1± 157.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −14.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01102
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

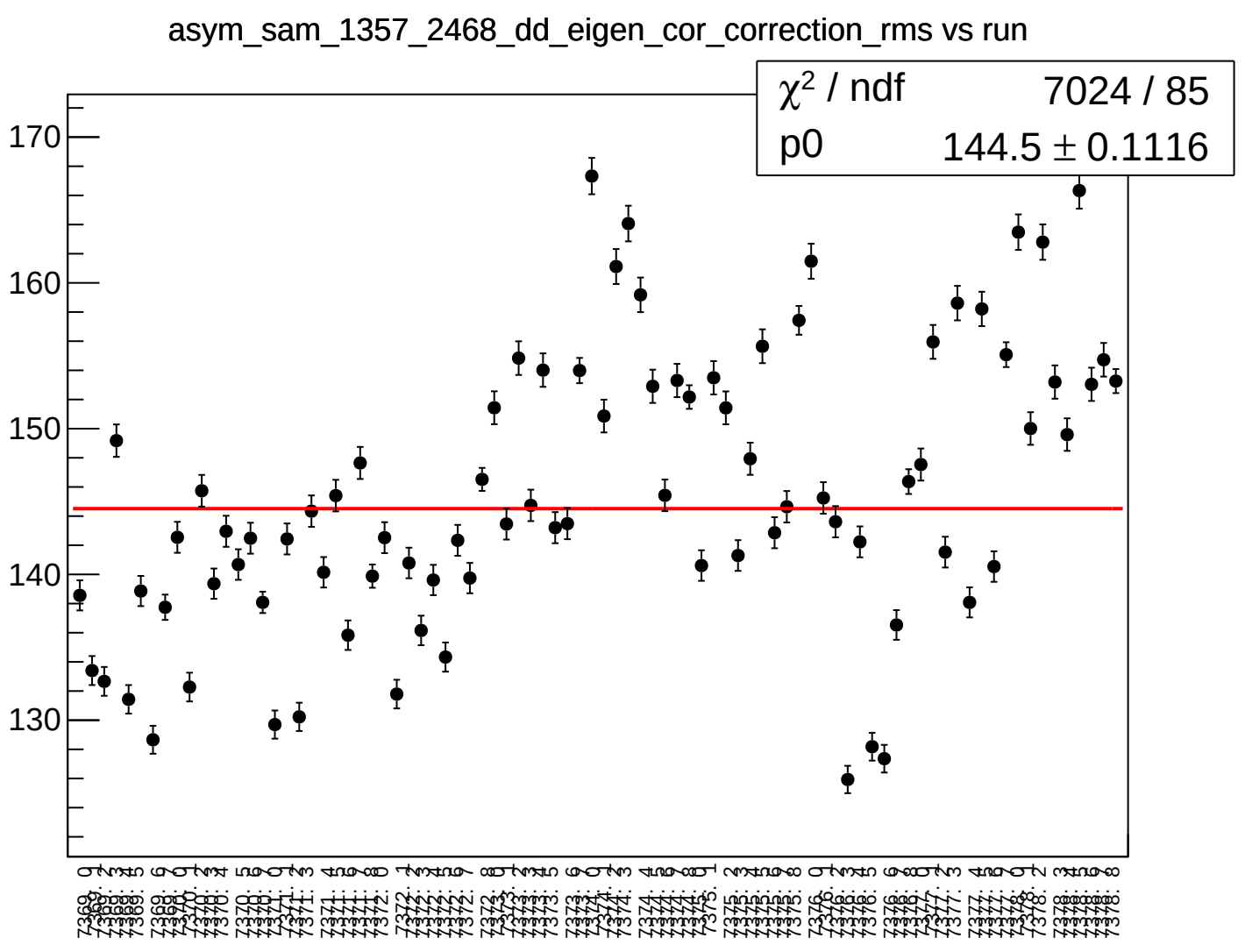

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 7024 / 85
p0 144.5 ± 0.1116
170
160
150
140
130

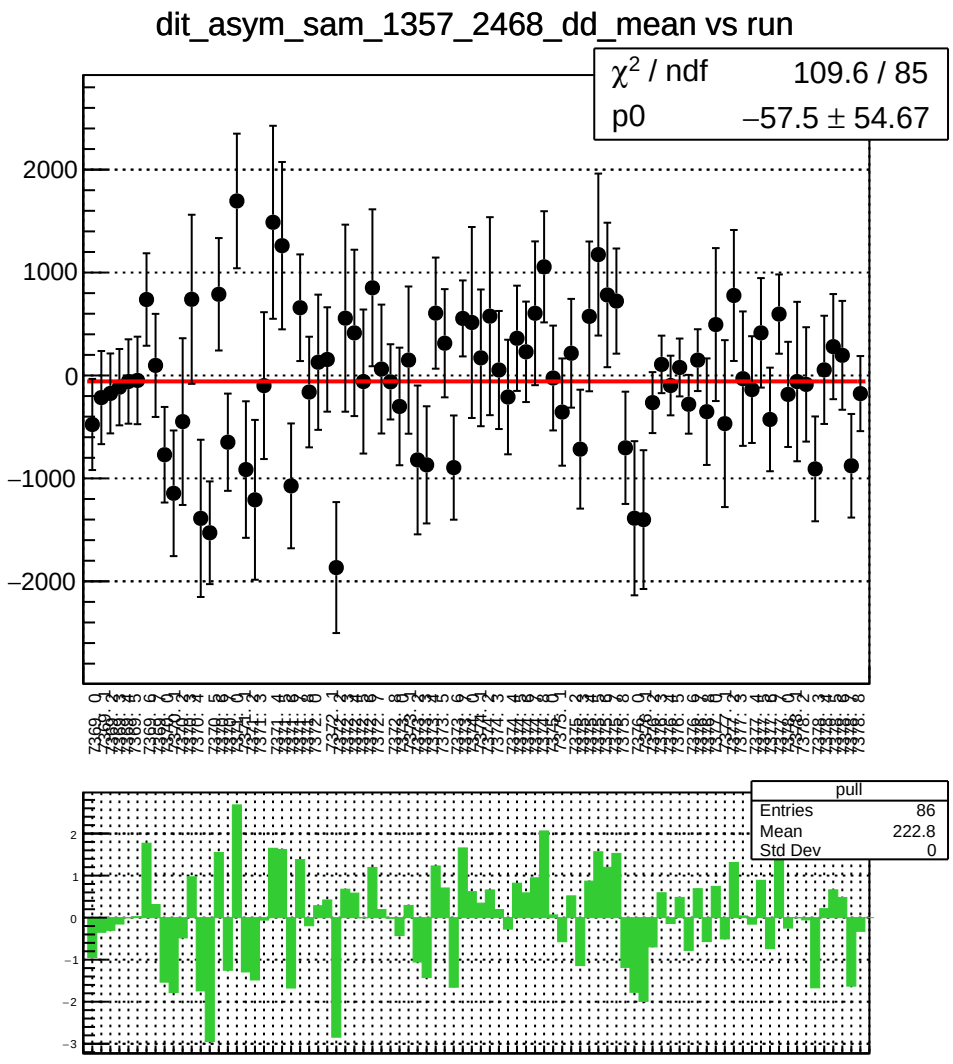

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 88.59 / 85
p0 −43.96 ± 26.06
pull
Entries 86
Mean −74.59
Std Dev 0

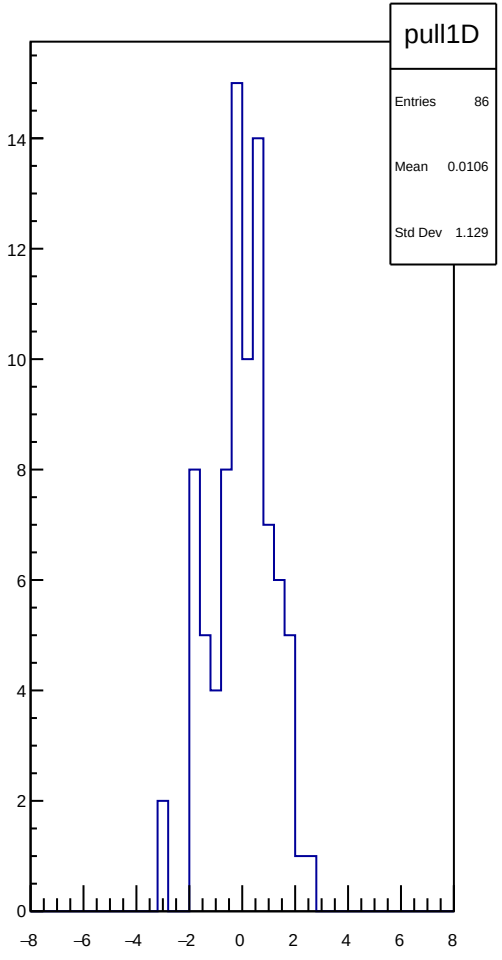

pull1D
Entries 86
Mean −0.01461
Std Dev 1.015

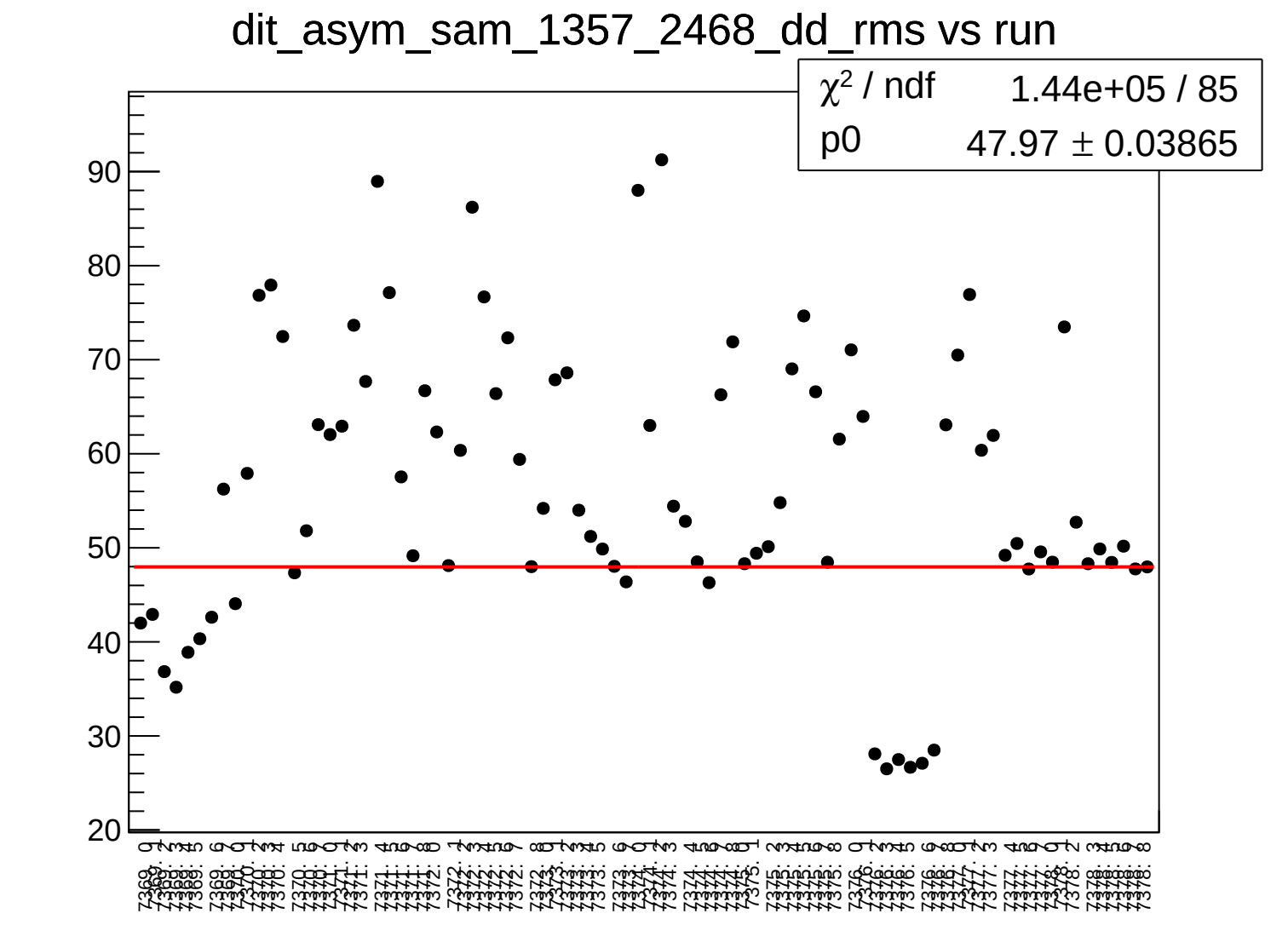

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.471e+04 / 85
p0 23.73 ± 0.01843
28
26
24
22
20
18
16

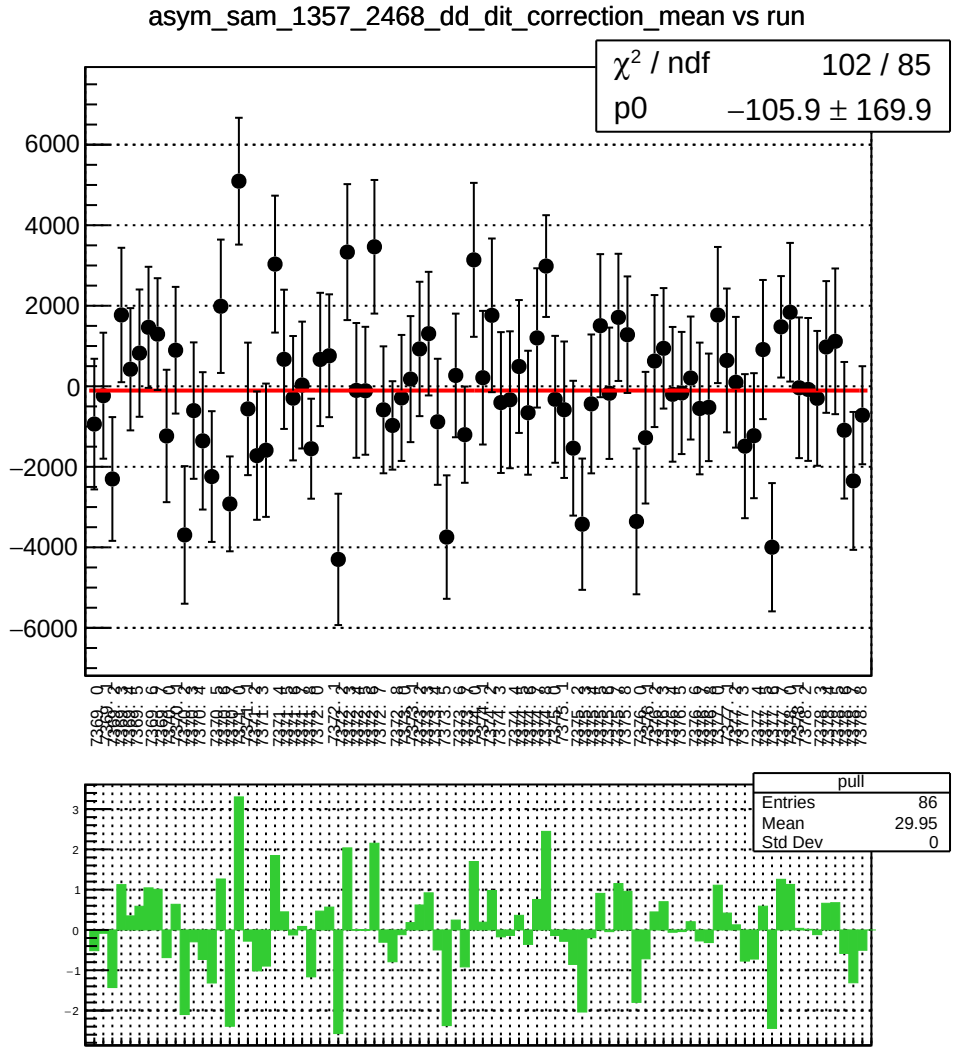

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.58 / 85
p0 −106.1± 157.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −14.81
Std Dev 0
pull1D
Entries 86
Mean 0.01102
Std Dev 1.021

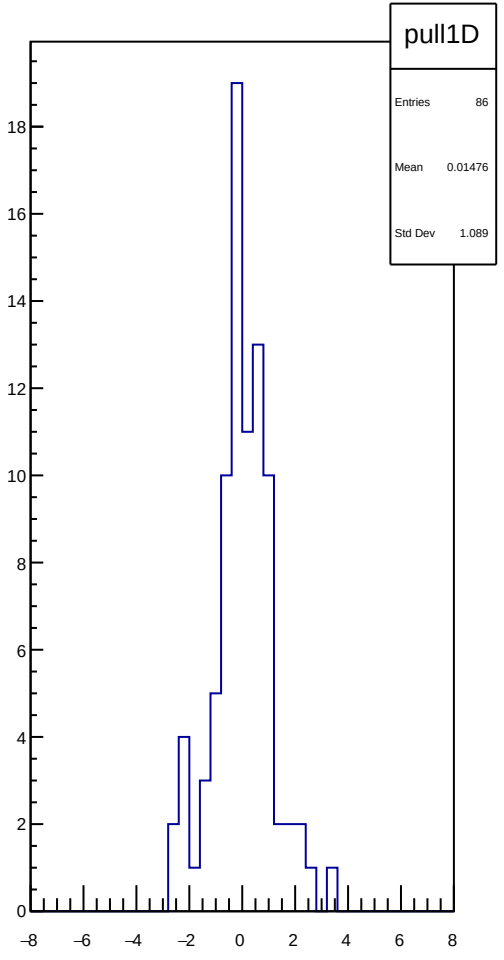

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 7024 / 85
p0 144.5 ± 0.1116
170
160
150
140
130

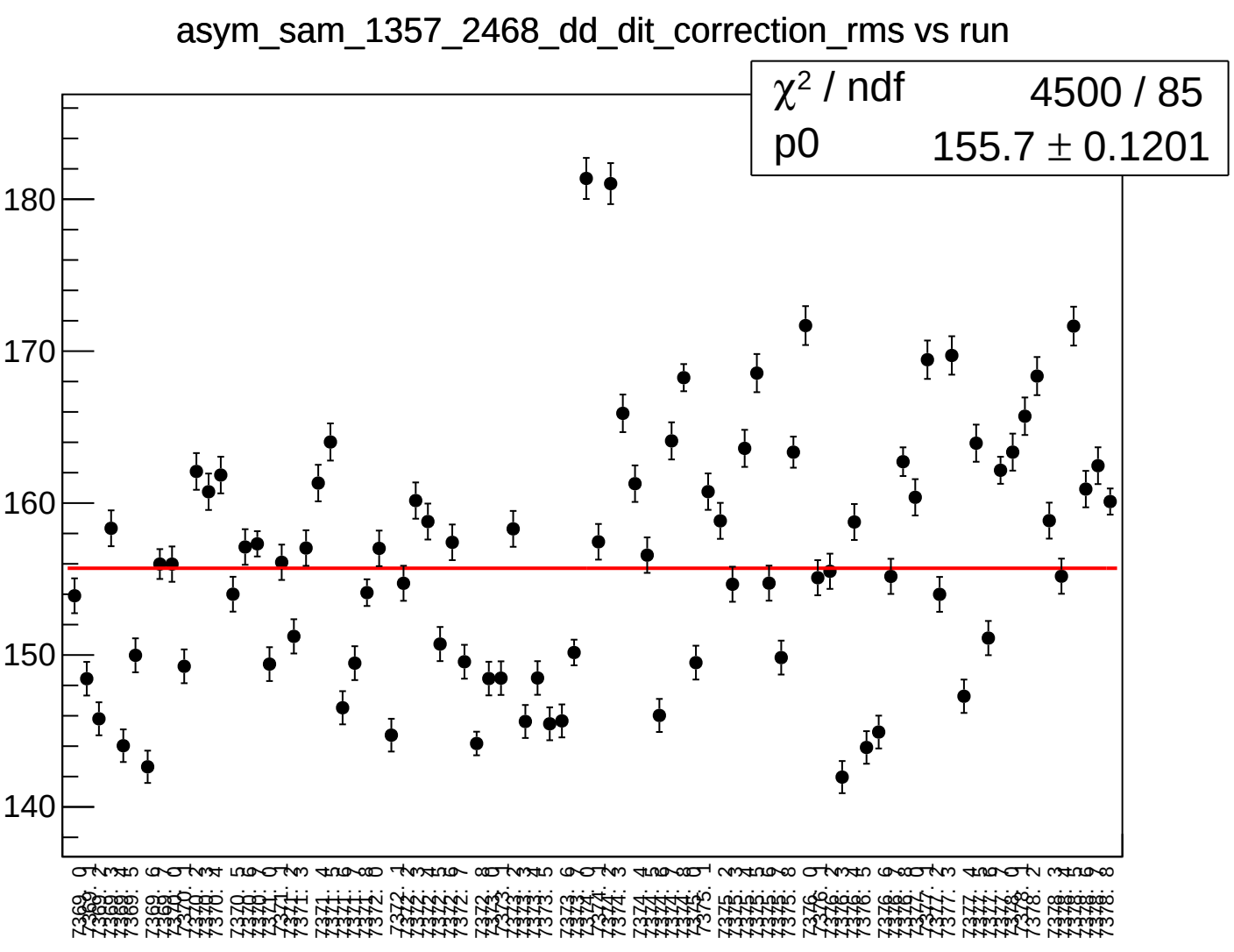

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 109.6 / 85
p0 −57.5 ± 54.67
pull
Entries 86
Mean 222.8
Std Dev 0

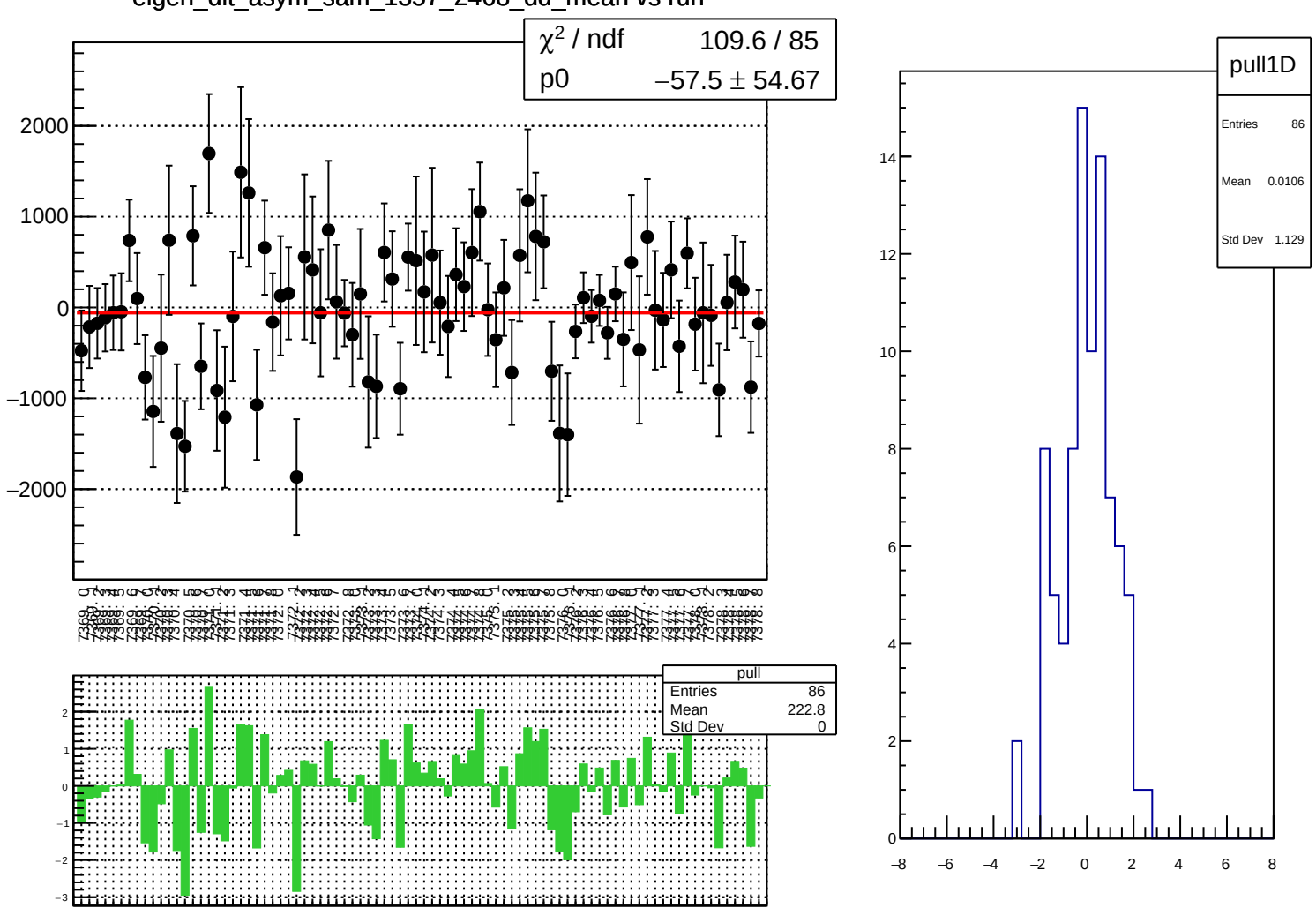

pull1D
Entries 86
Mean 0.0106
Std Dev 1.129

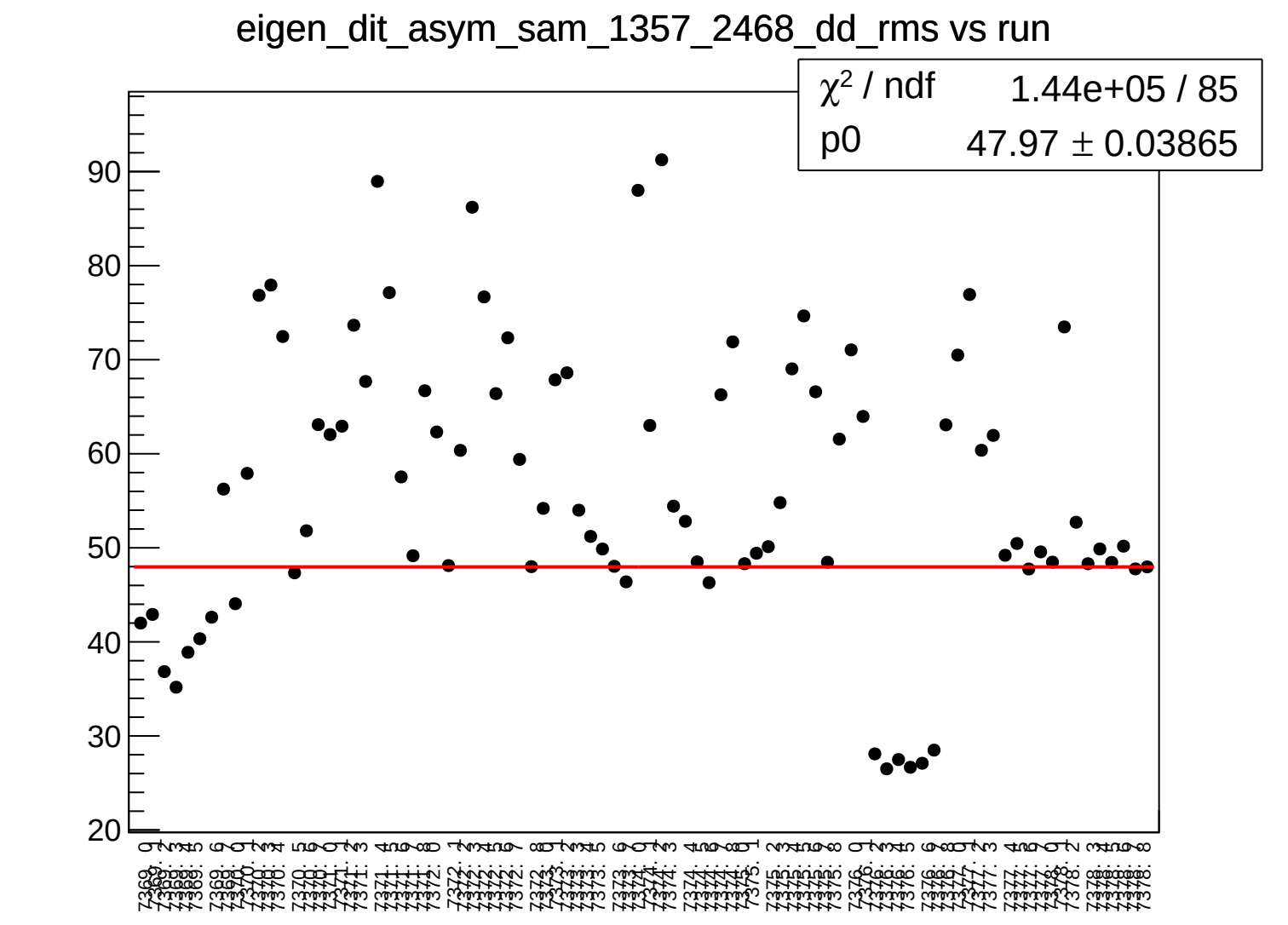

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.44e+05 / 85
p0 47.97 ± 0.03865
90
80
70
60
50
40
30
20

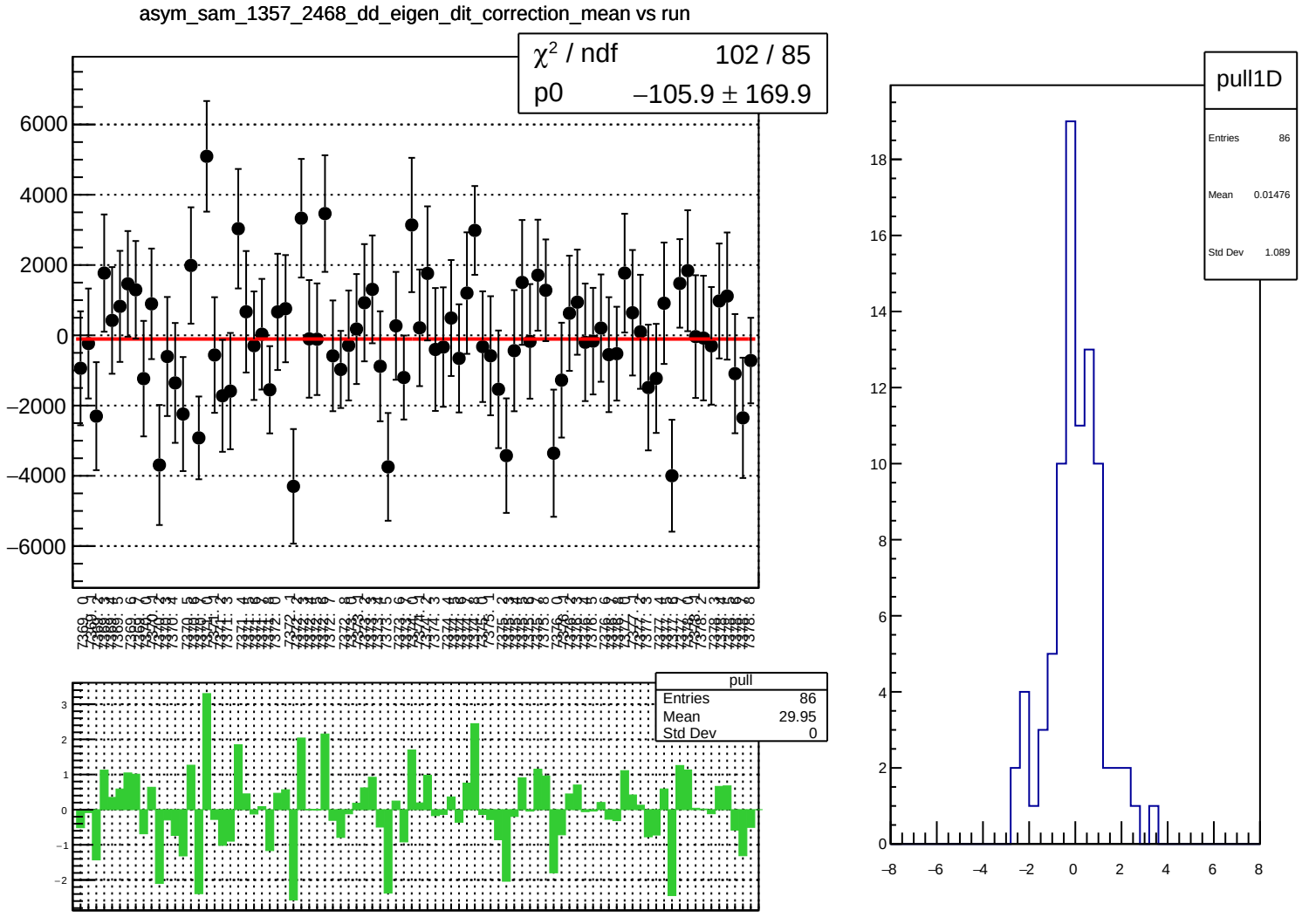

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 102 / 85
p0 −105.9 ± 169.9
pull
Entries 86
Mean 29.95
Std Dev 0

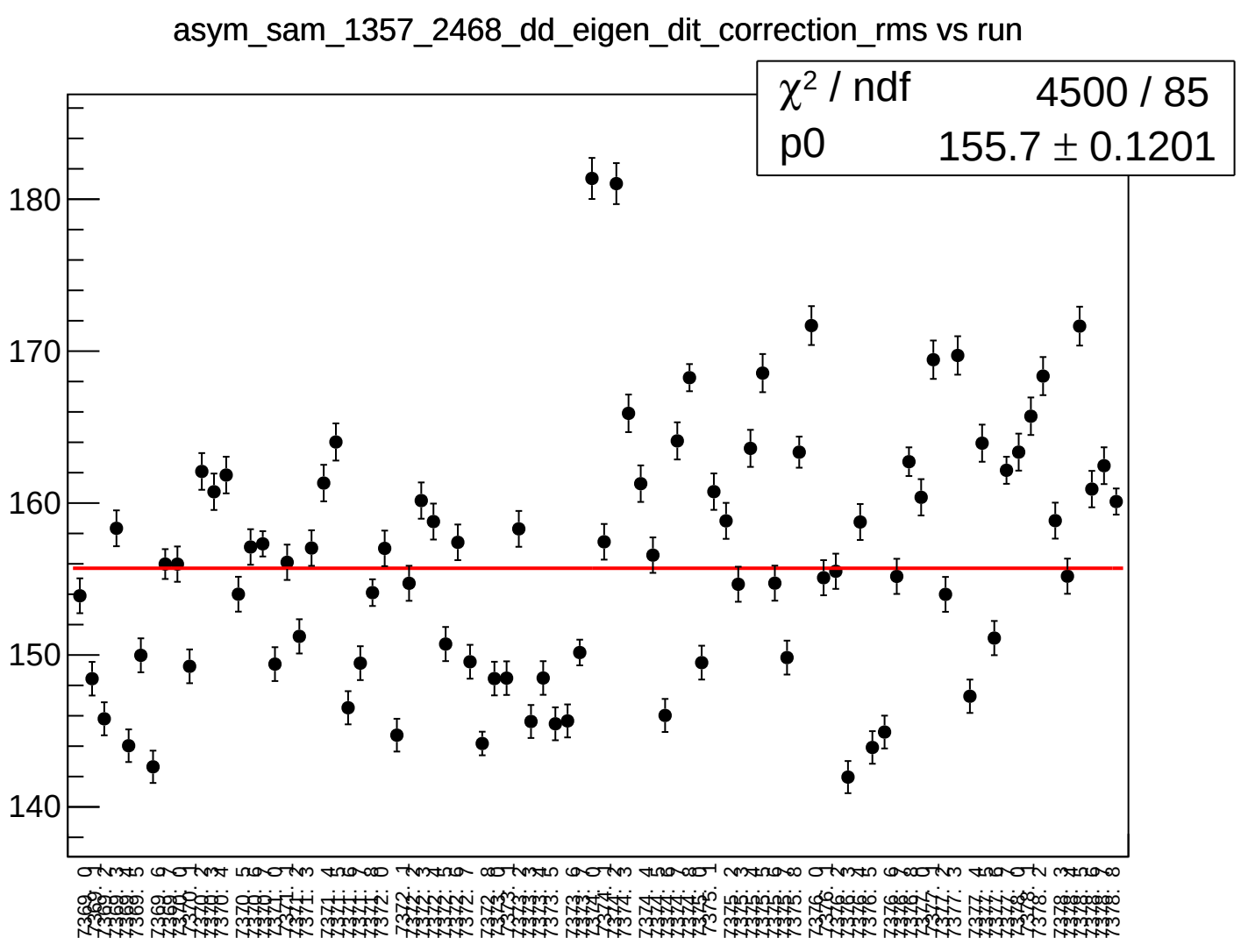

pull1D
Entries 86
Mean 0.01476
Std Dev 1.089

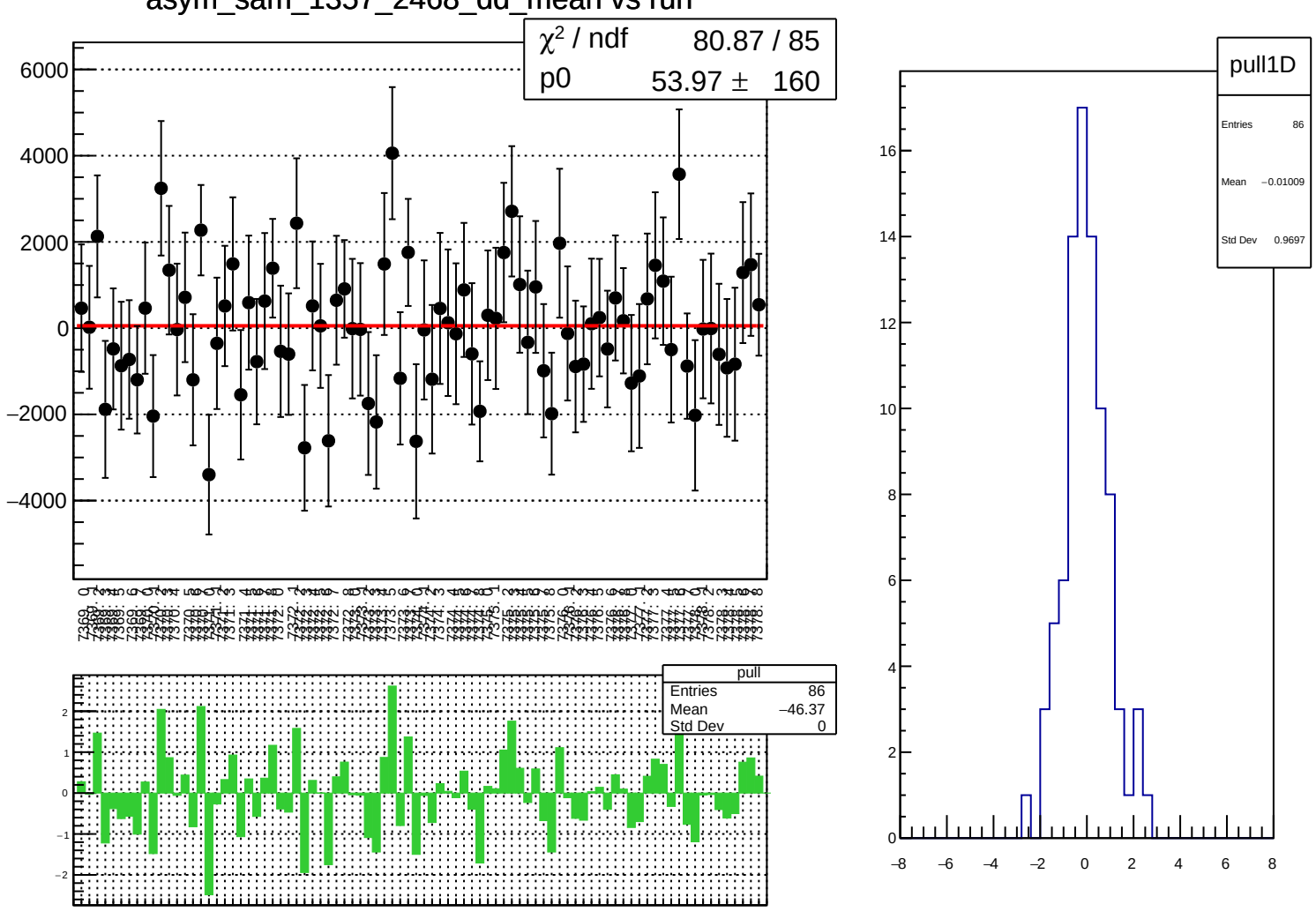

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 4500 / 85
p0 155.7 ± 0.1201
180
170
160
150
140

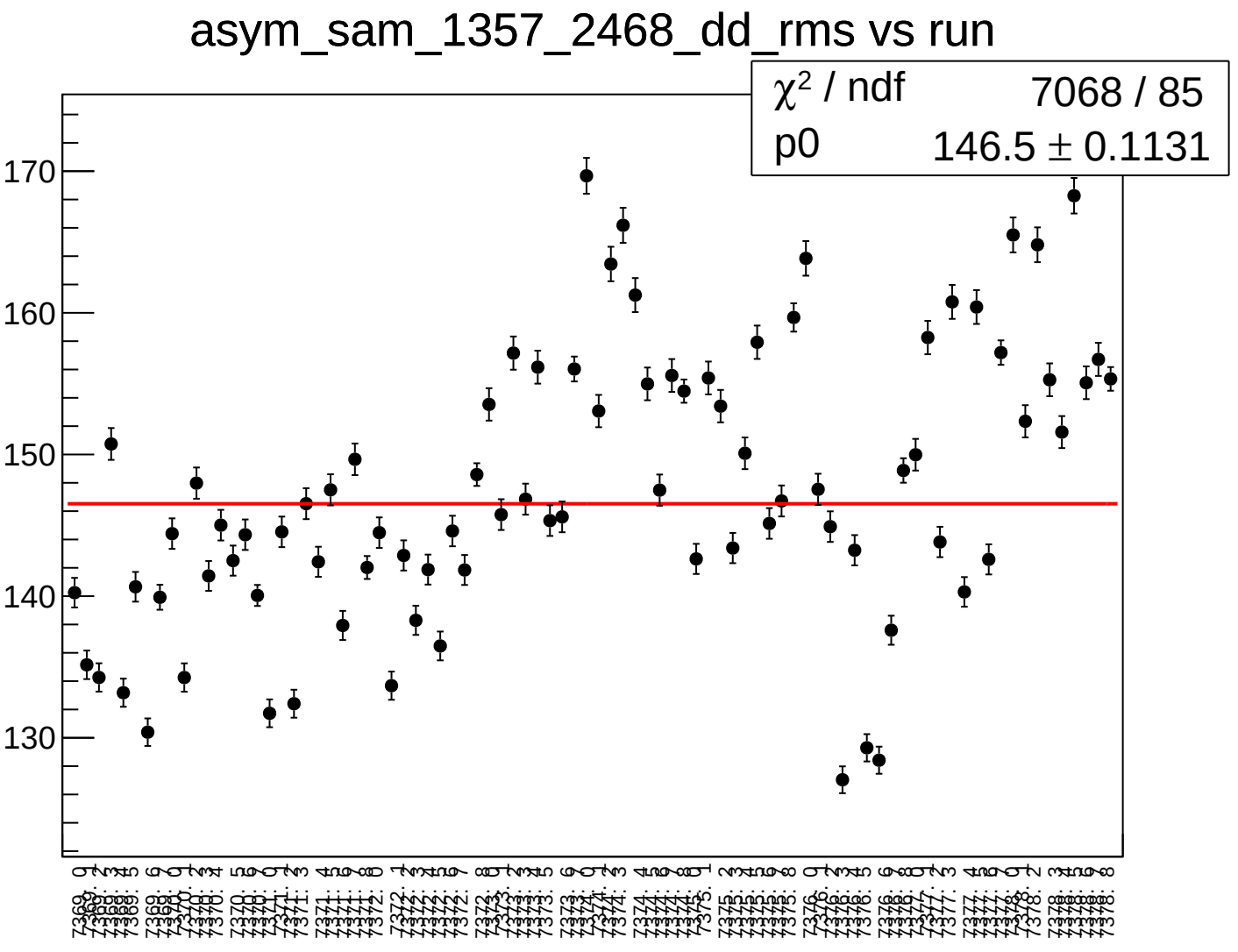

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 109.6 / 85
p0 −57.5 ± 54.67
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 222.8
Std Dev 0
pull1D
Entries 86
Mean 0.0106
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

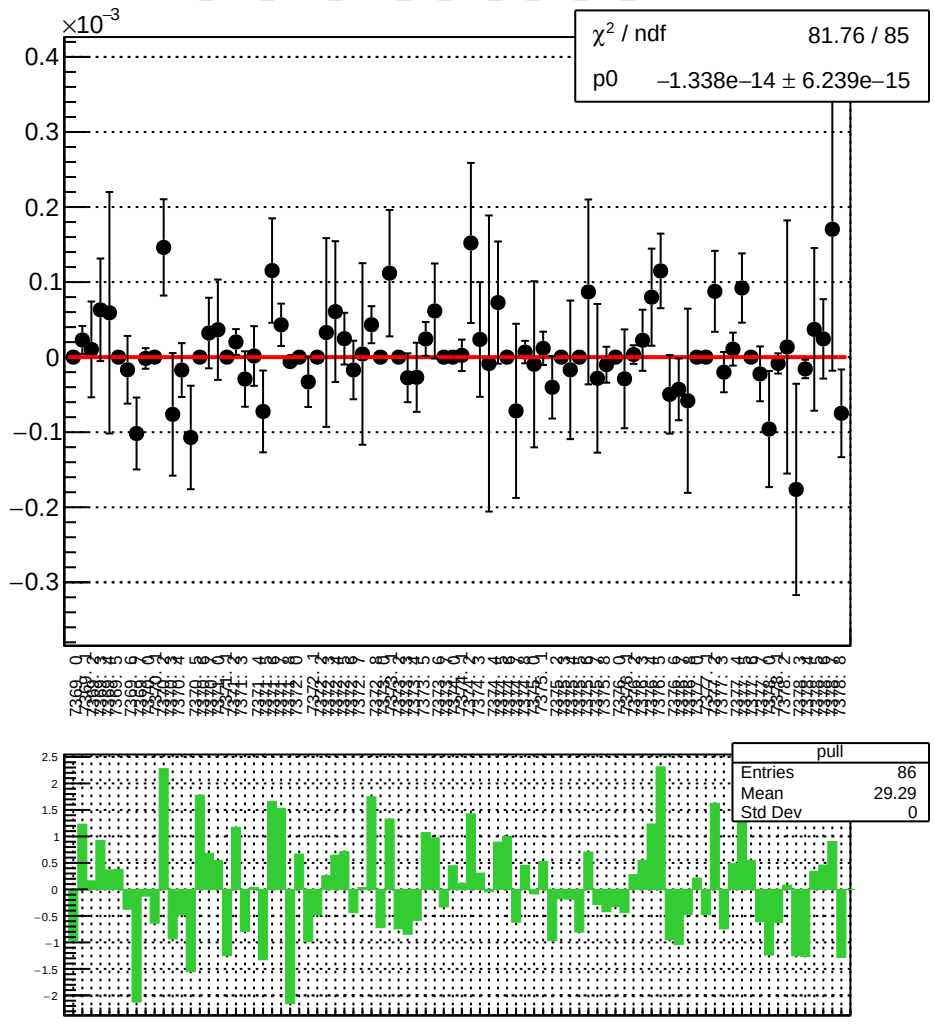

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.44e+05 / 85
p0 47.97 ± 0.03865
90
80
70
60
50
40
30
20

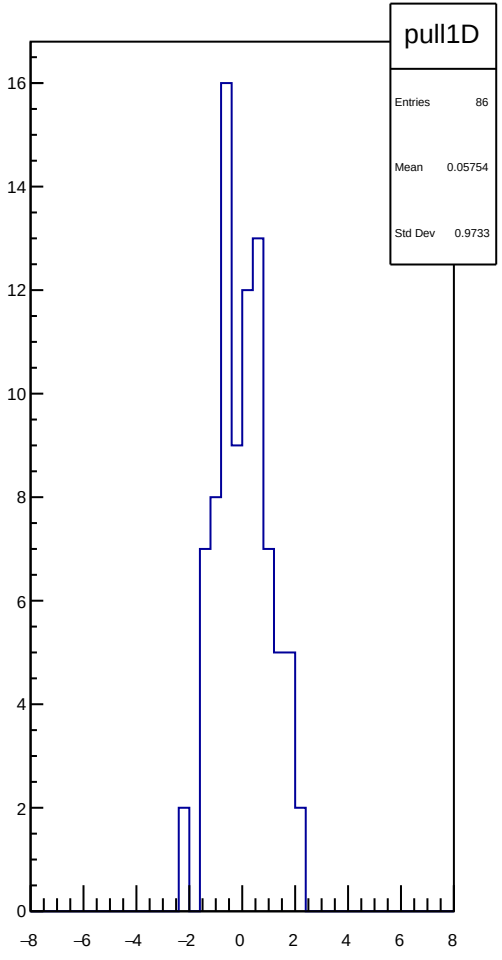

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 102 / 85
p0 −105.9 ± 169.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean 29.95
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01476
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

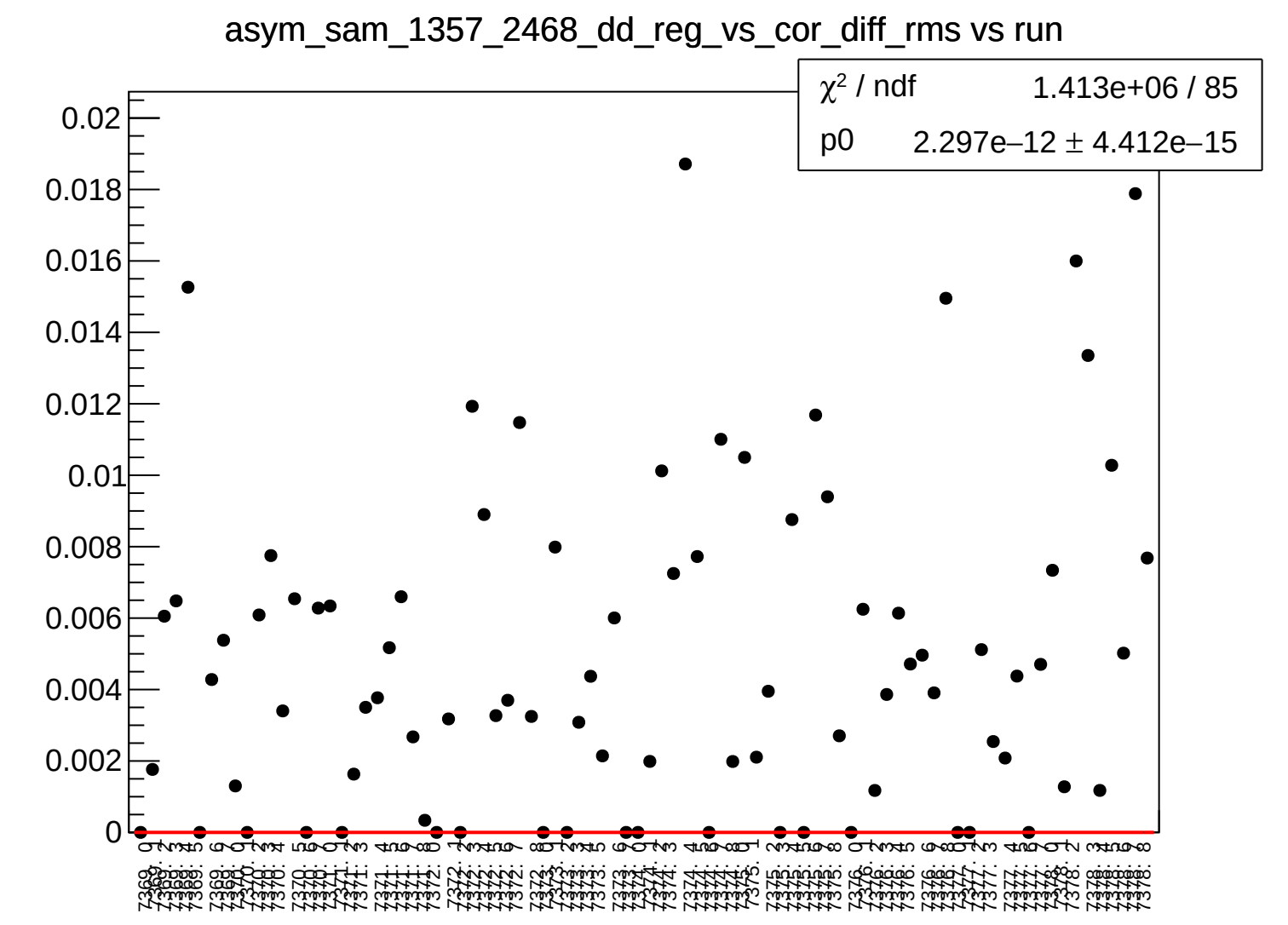

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 4500 / 85
p0 155.7 ± 0.1201
180
170
160
150
140

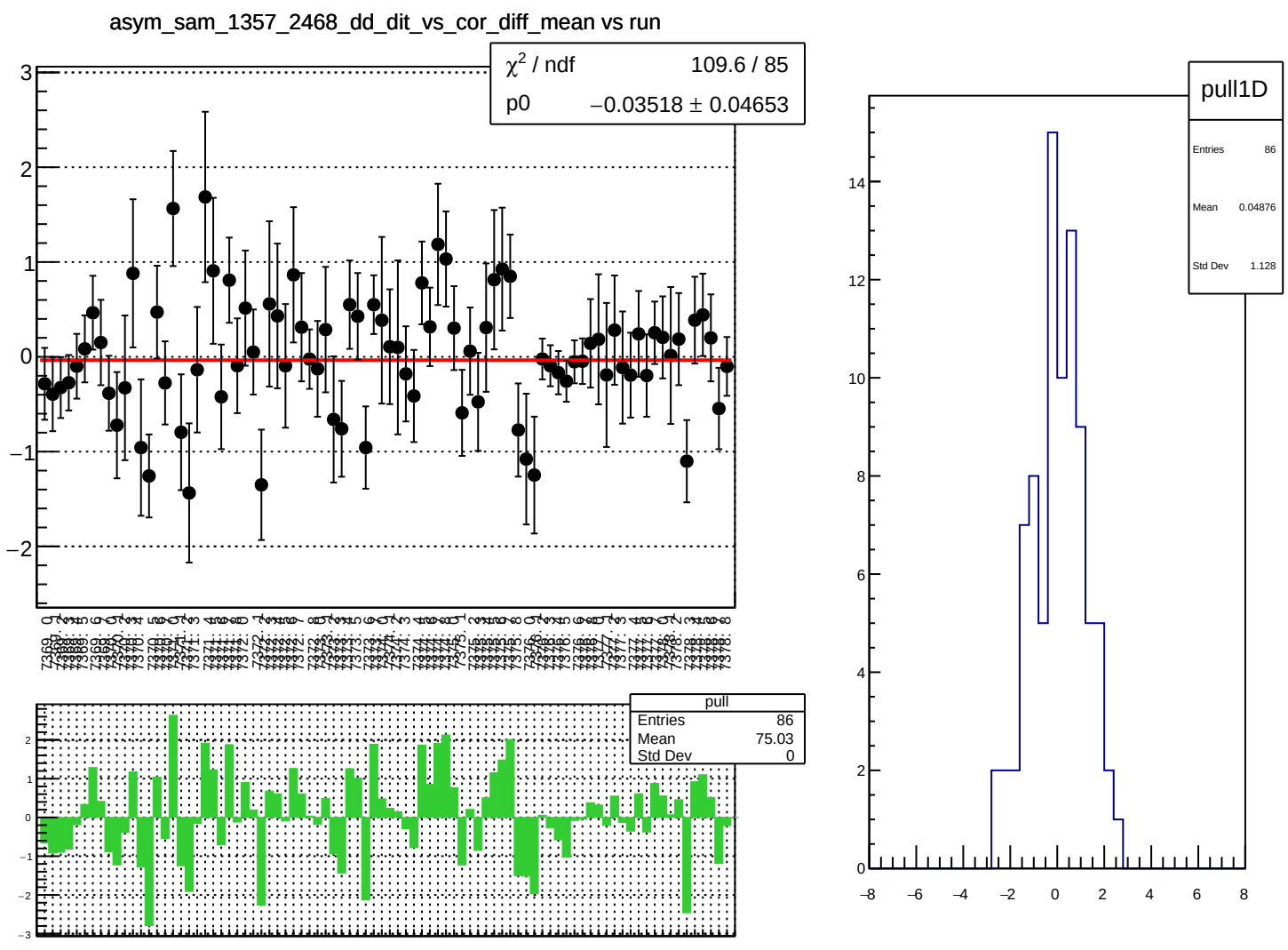

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 80.87 / 85
p0 53.97 ± 160
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −46.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01009
Std Dev 0.9697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

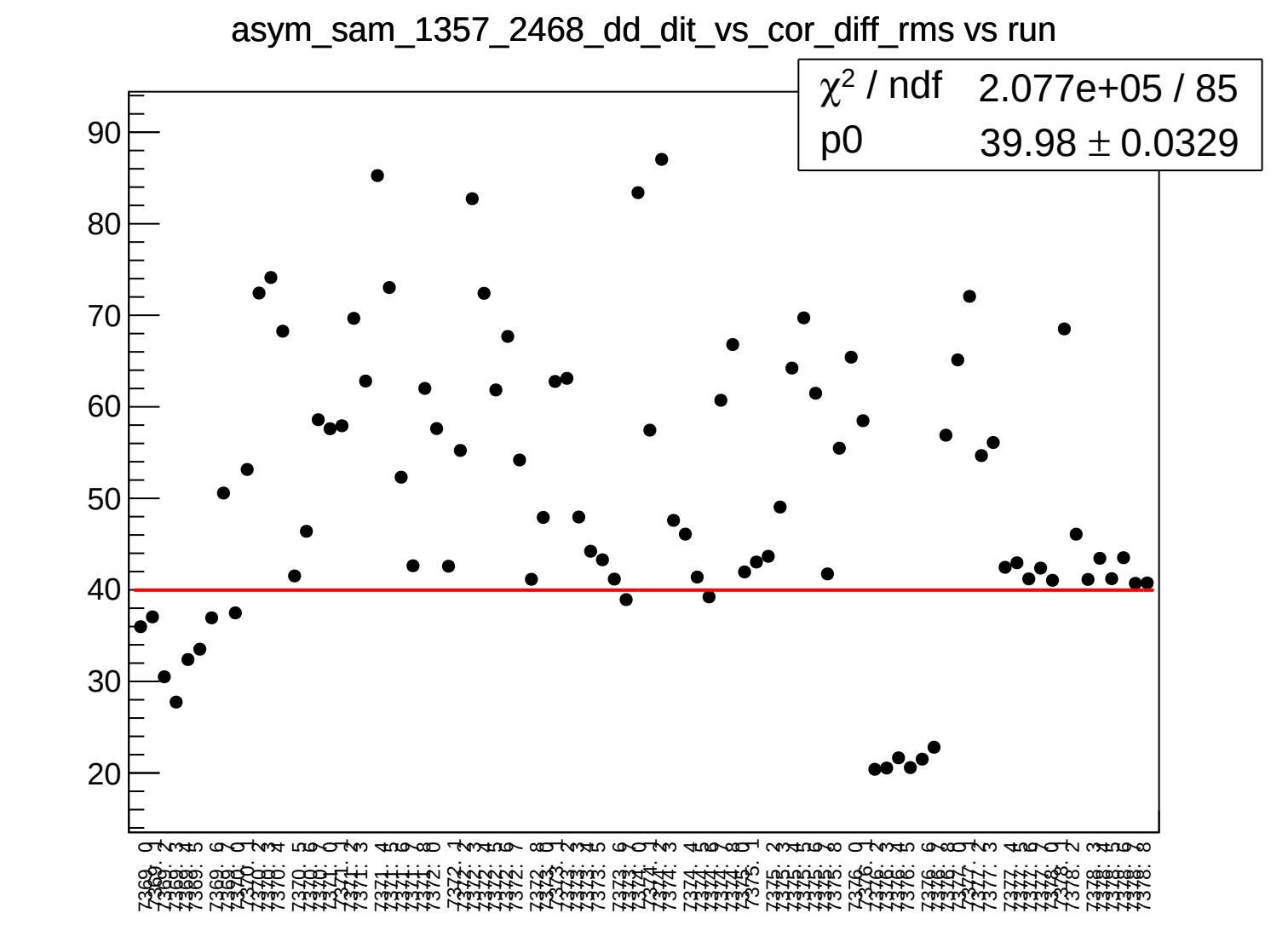

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7068 / 85
p0 146.5 ± 0.1131
170
160
150
140
130

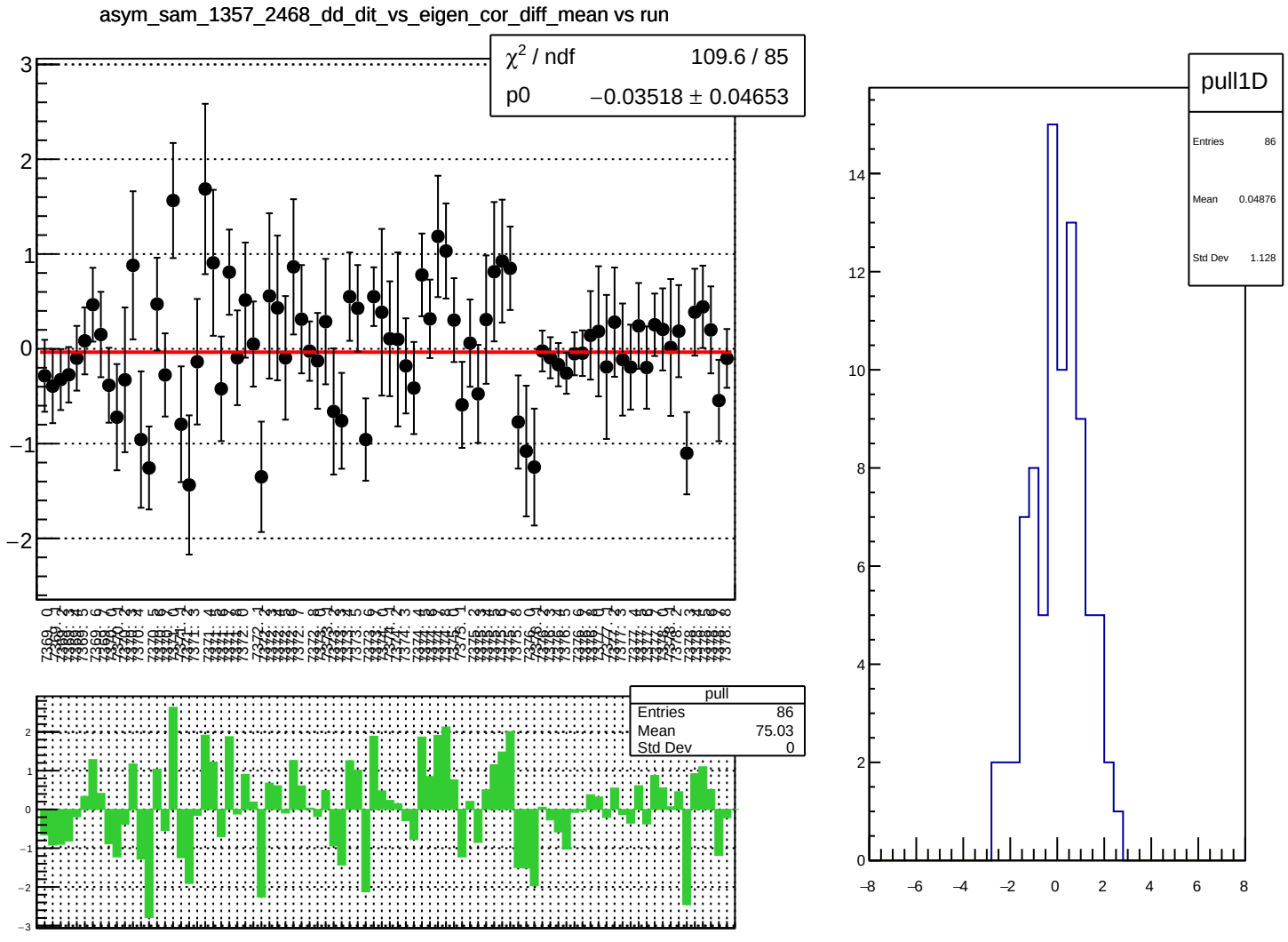

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 81.76 / 85
p0 −1.338e−14 ± 6.239e−15
pull
Entries 86
Mean 29.29
Std Dev 0

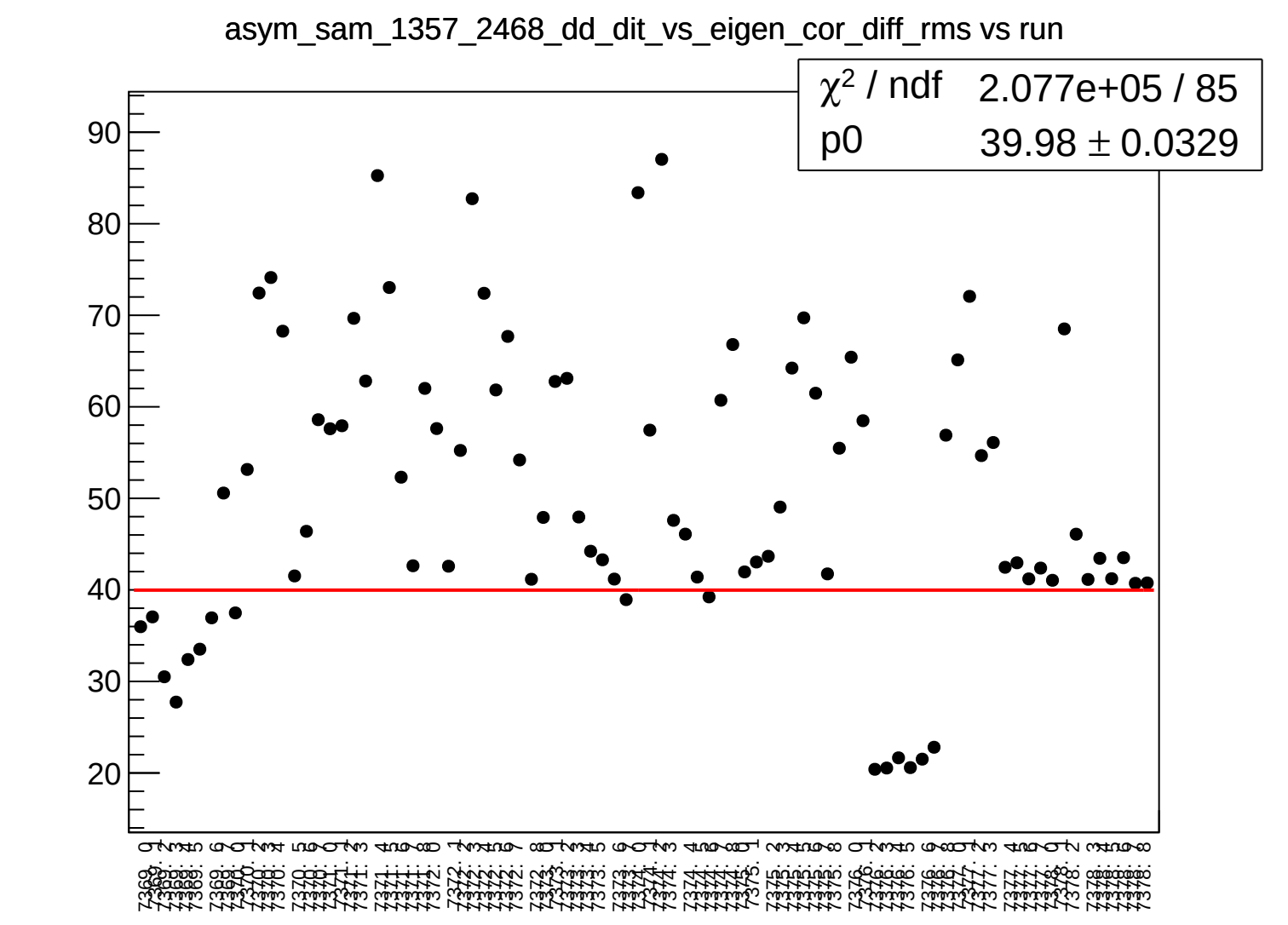

pull1D
Entries 86
Mean 0.05754
Std Dev 0.9733

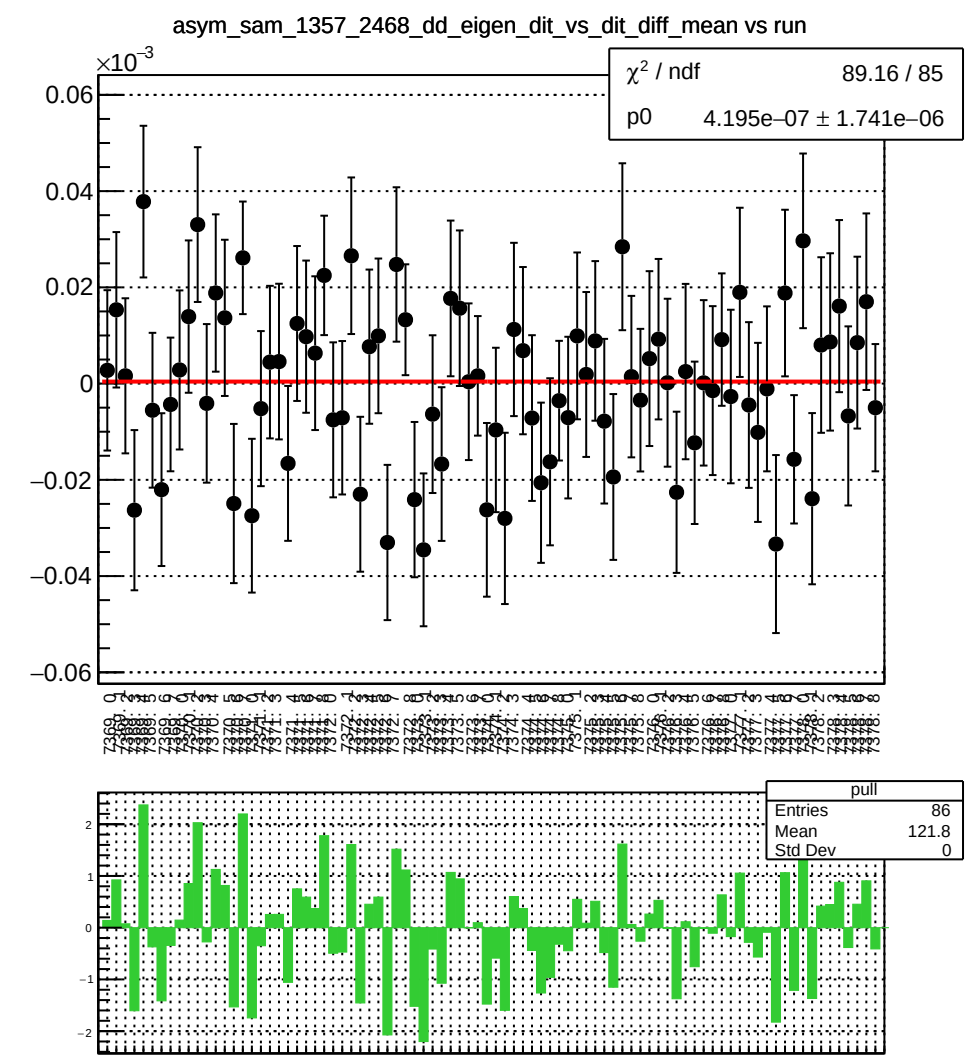

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.413e+06 / 85
p0 2.297e−12 ± 4.412e−15
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

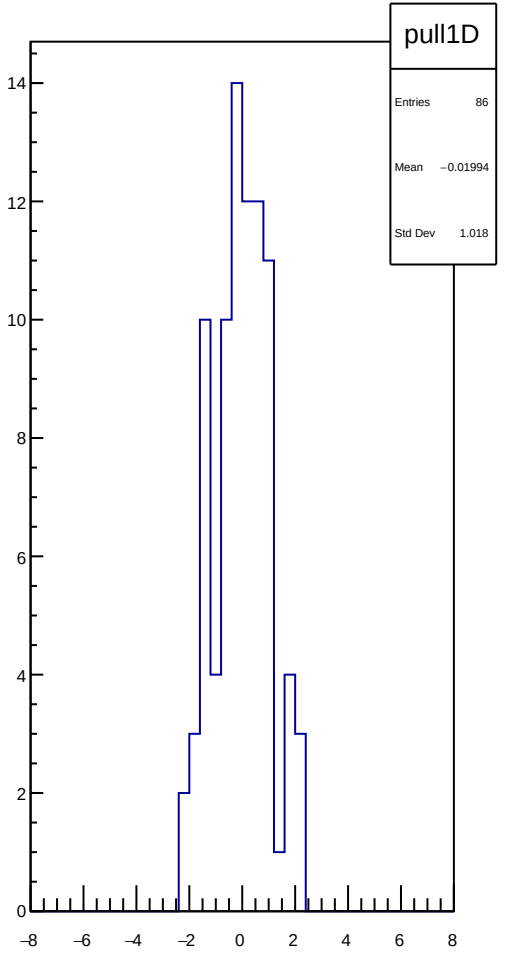

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 85
p0 −0.03518 ± 0.04653
pull
Entries 86
Mean 75.03
Std Dev 0
pull1D
Entries 86
Mean 0.04876
Std Dev 1.128

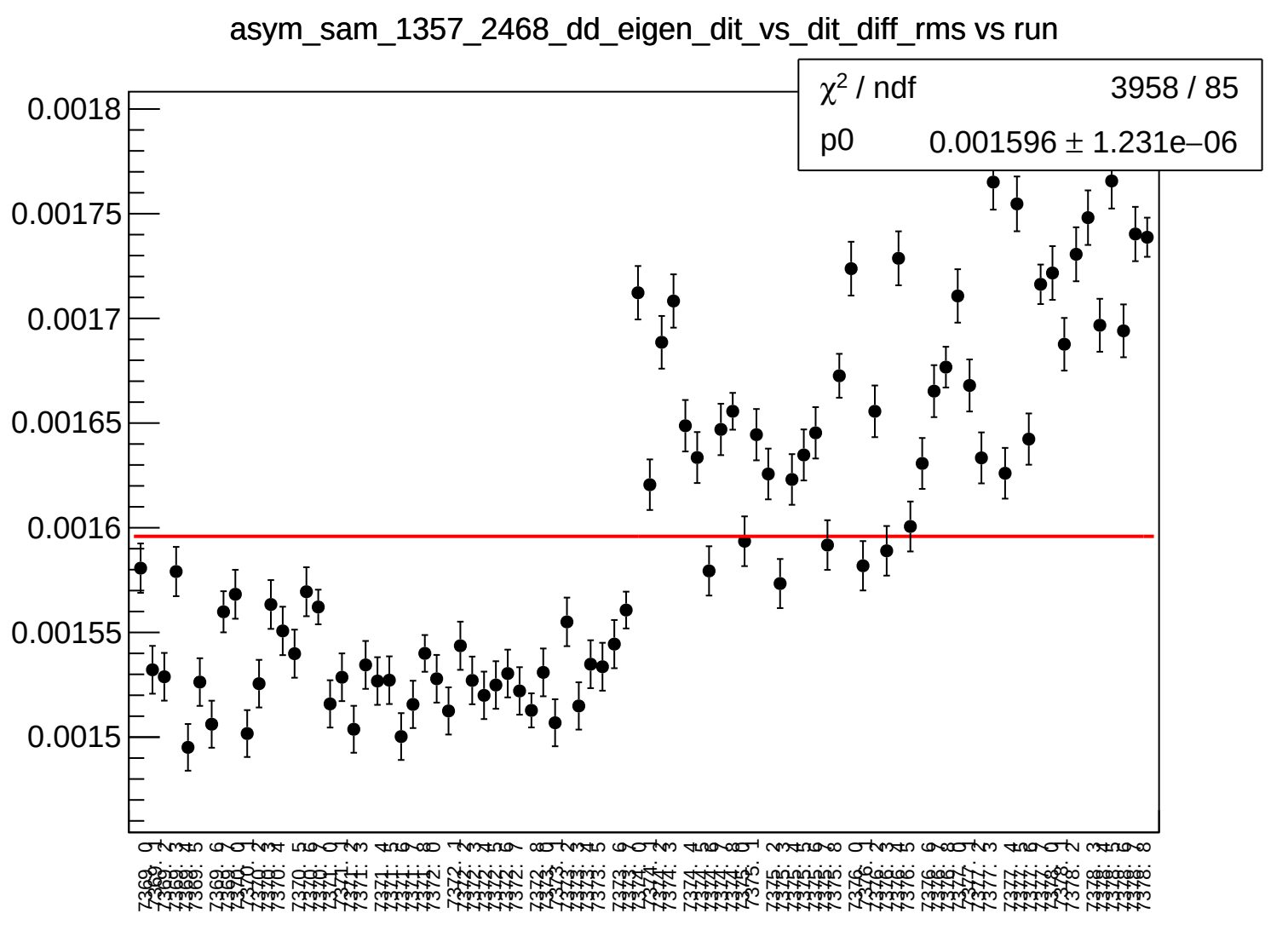

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.077e+05 / 85
p0 39.98 ± 0.0329
90
80
70
60
50
40
30
20

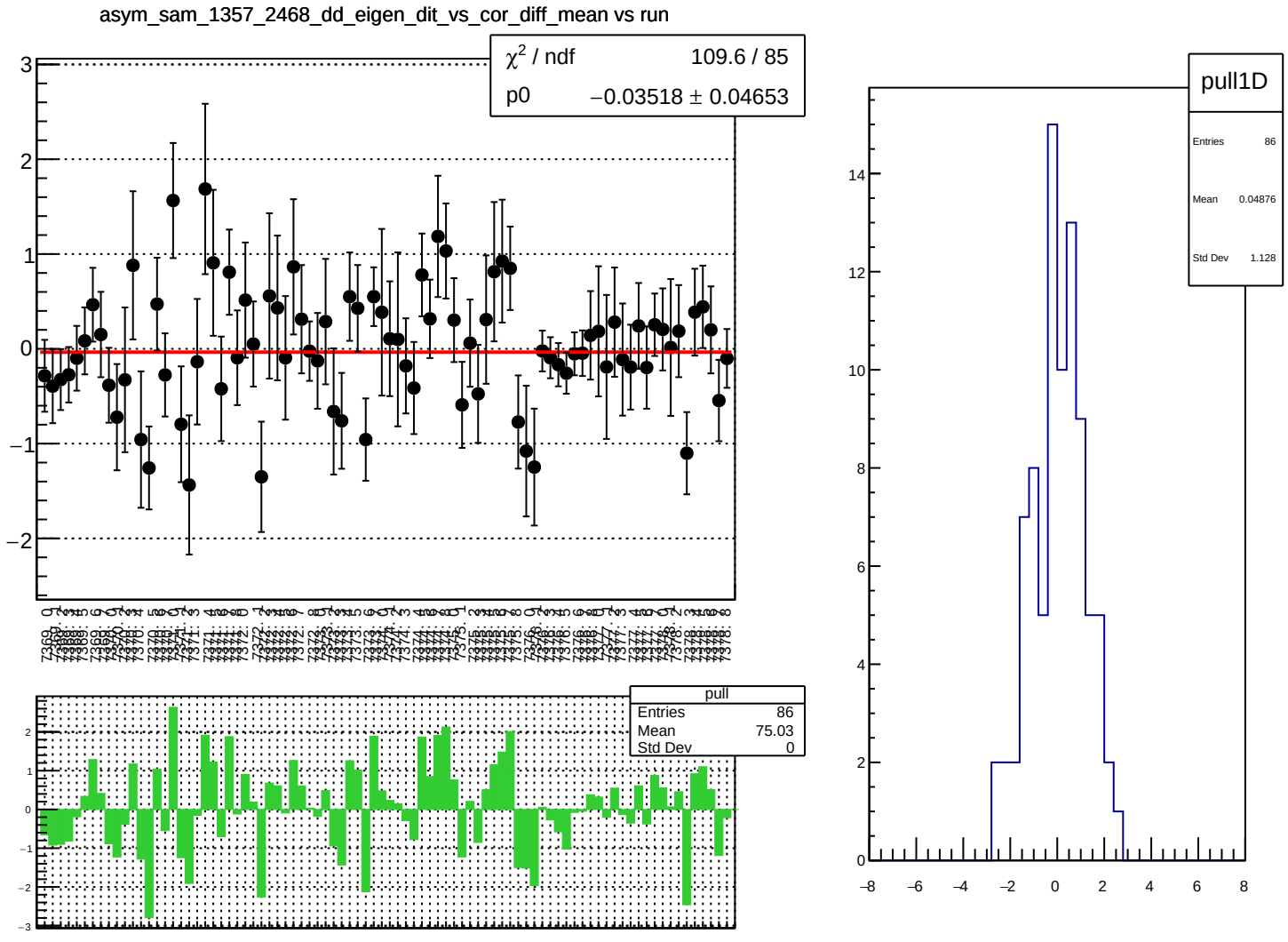

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 85
p0 −0.03518 ± 0.04653
pull
Entries 86
Mean 75.03
Std Dev 0
pull1D
Entries 86
Mean 0.04876
Std Dev 1.128

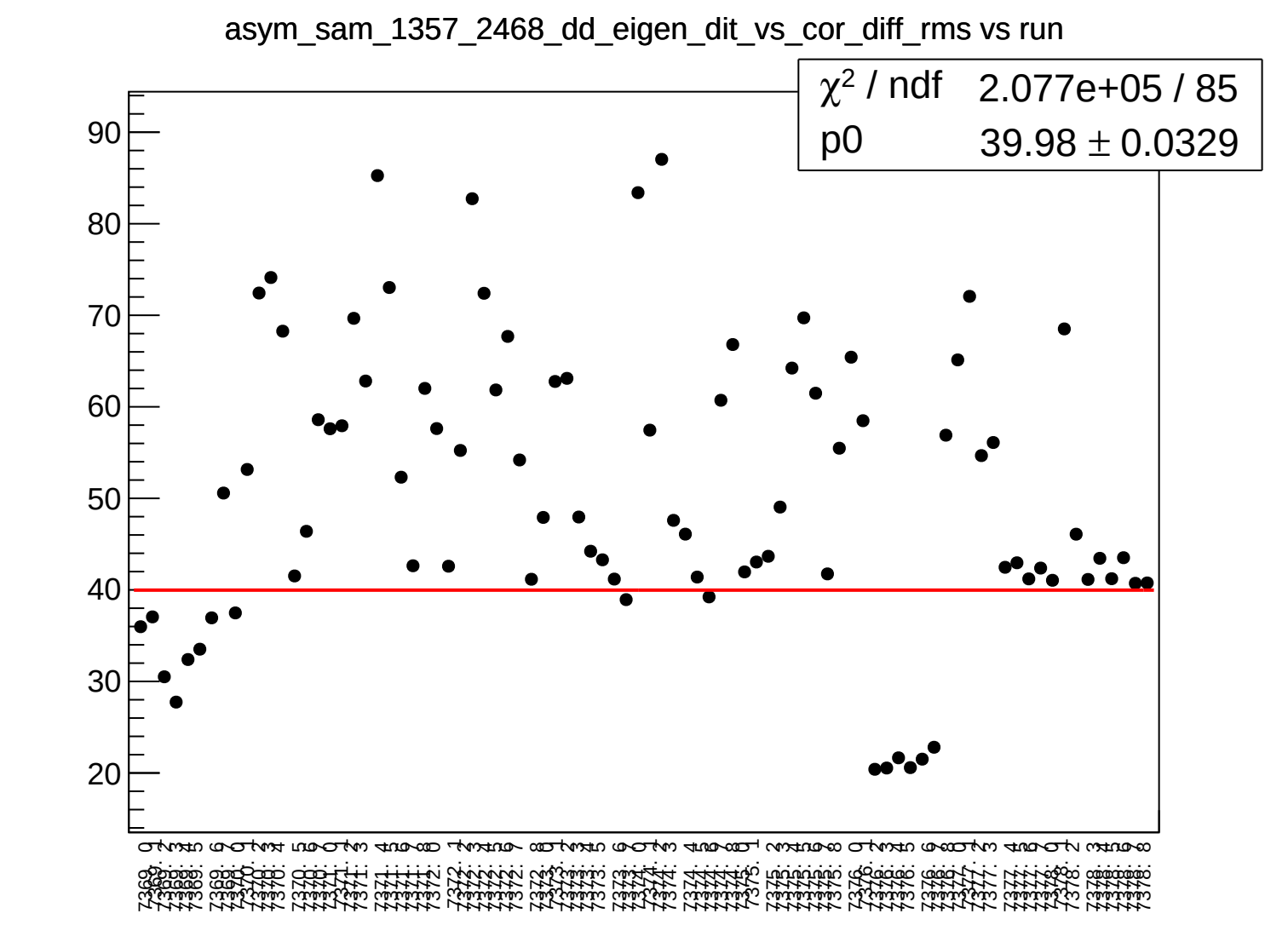

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.077e+05 / 85
p0 39.98 ± 0.0329
90
80
70
60
50
40
30
20

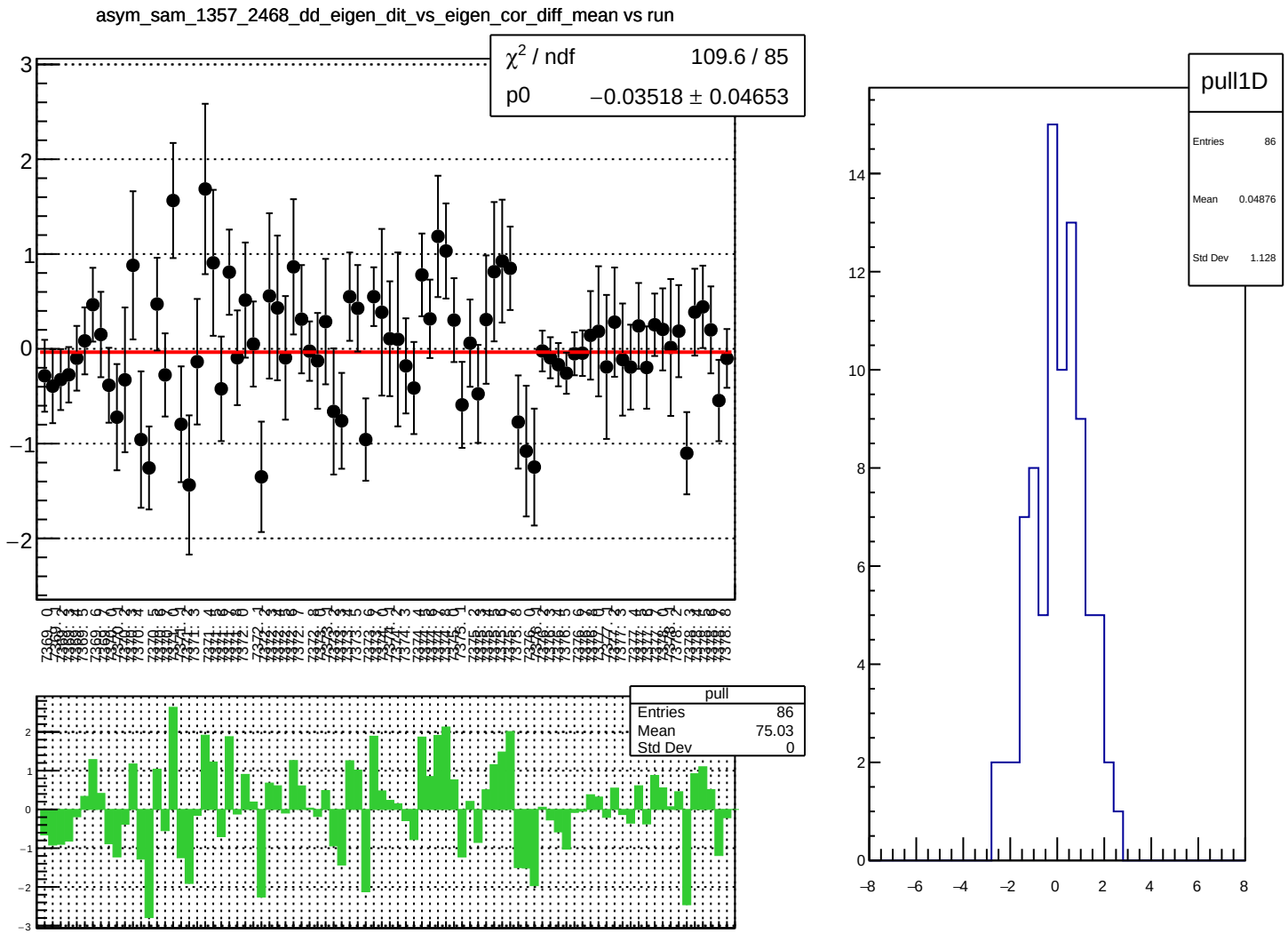

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.16 / 85
p0 4.195e−07 ± 1.741e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean 121.8
Std Dev 0
2
1
0
−1
−2

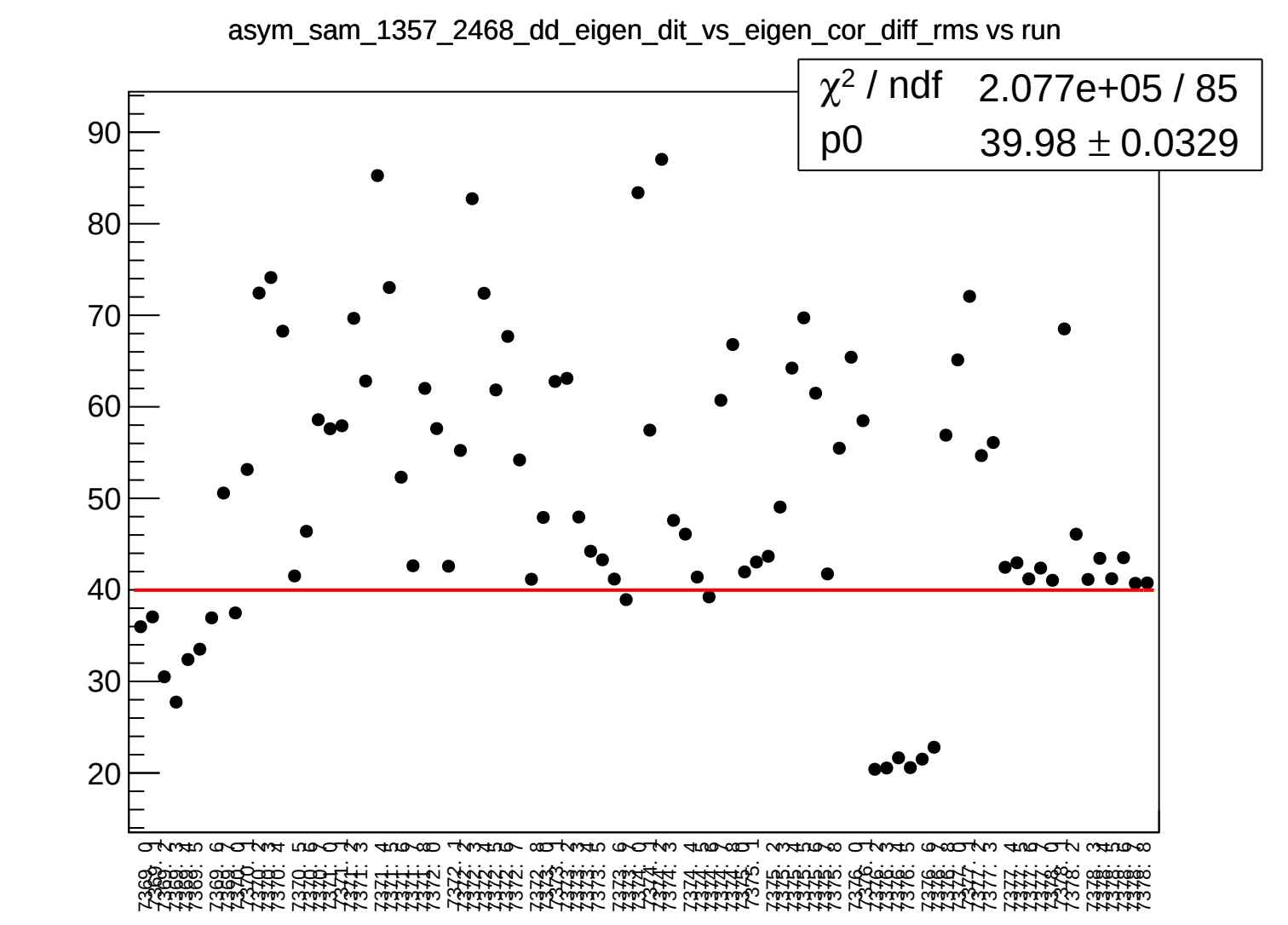

pull1D
Entries 86
Mean −0.01994
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

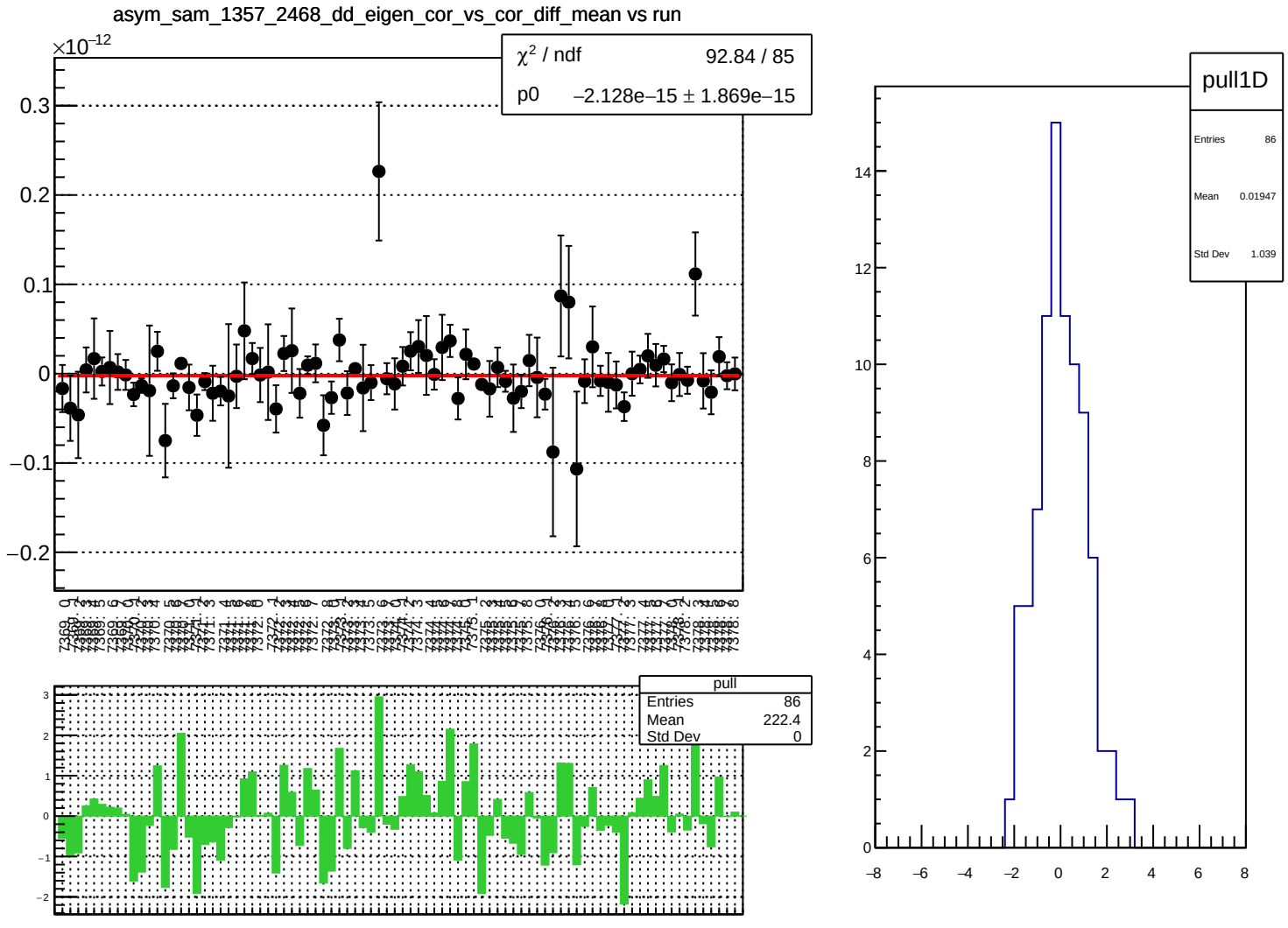

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3958 / 85
p0 0.001596 ± 1.231e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

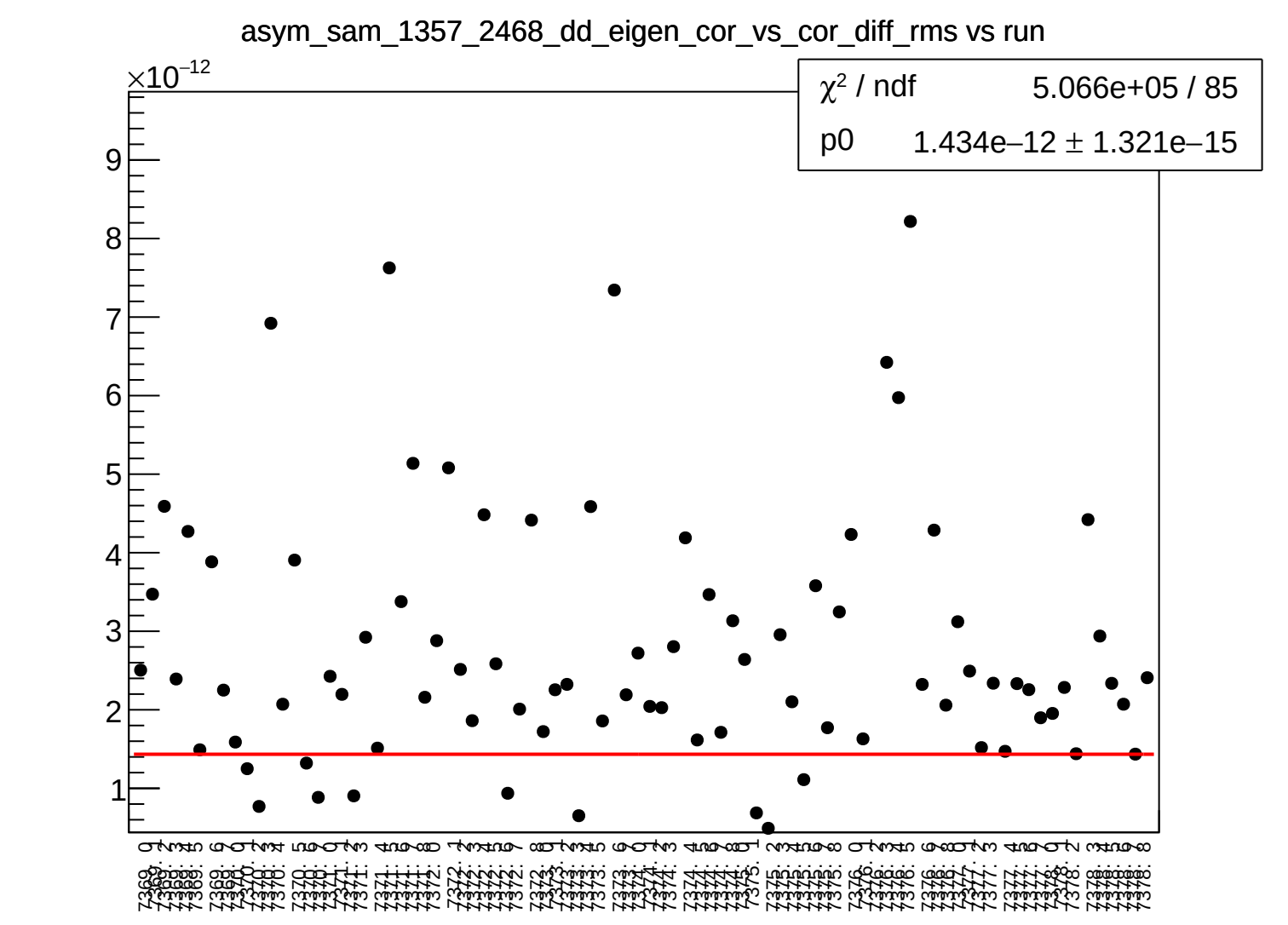

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 85
p0 −0.03518 ± 0.04653
pull
Entries 86
Mean 75.03
Std Dev 0
pull1D
Entries 86
Mean 0.04876
Std Dev 1.128

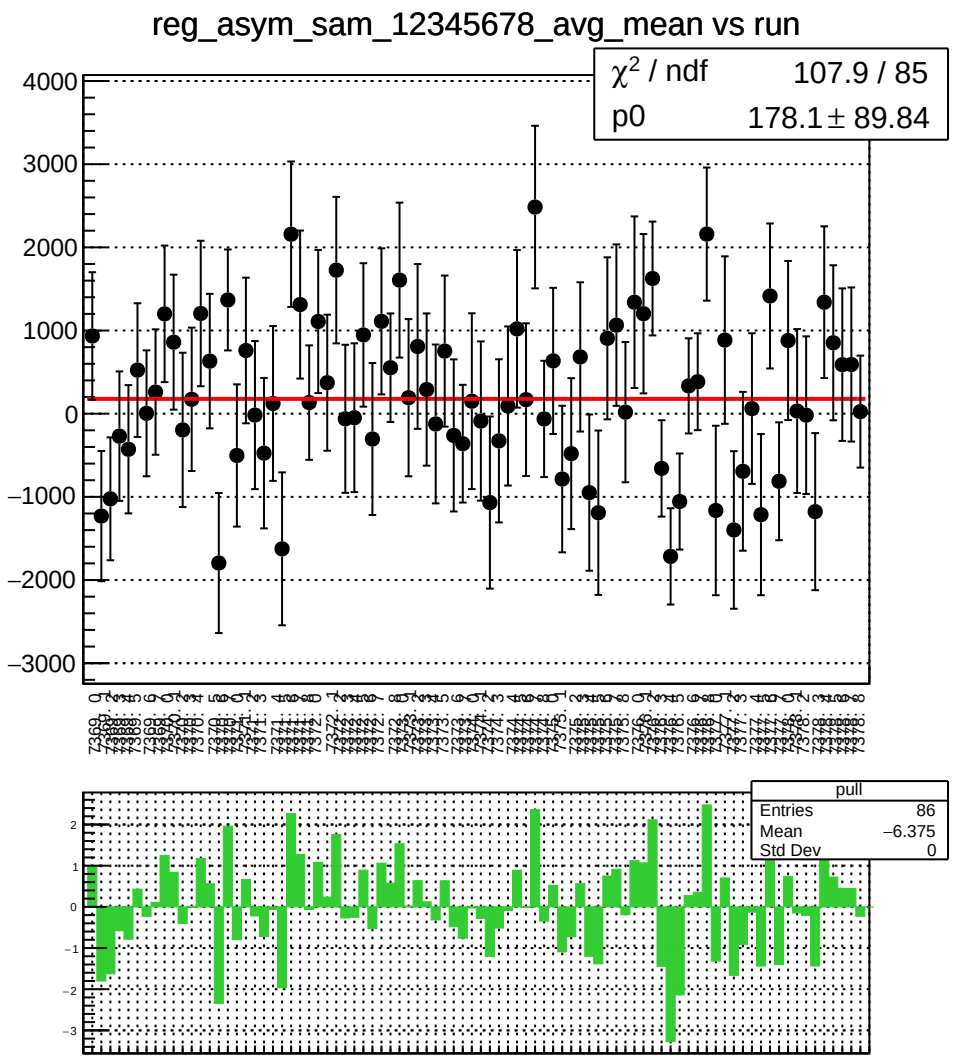

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.077e+05 / 85
p0 39.98 ± 0.0329
90
80
70
60
50
40
30
20

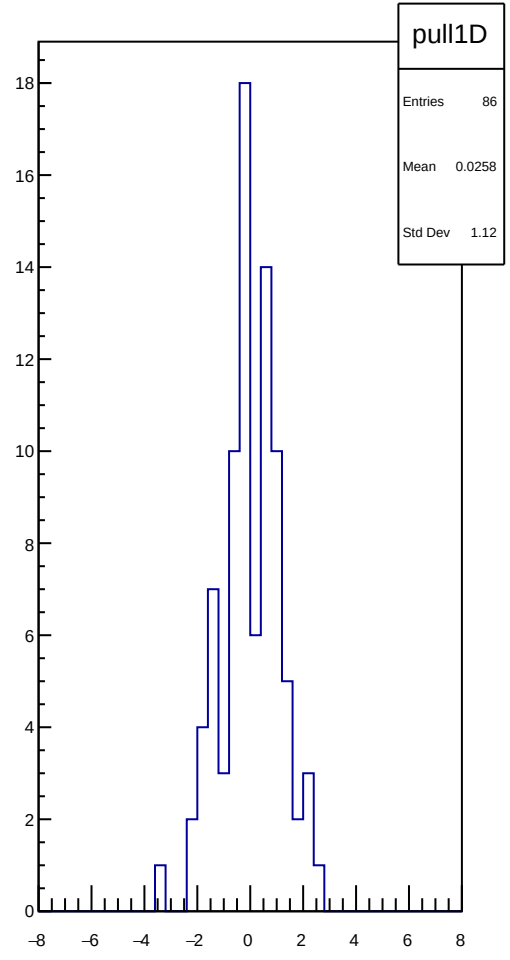

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 85
p0 −0.03518 ± 0.04653
pull
Entries 86
Mean 75.03
Std Dev 0
pull1D
Entries 86
Mean 0.04876
Std Dev 1.128

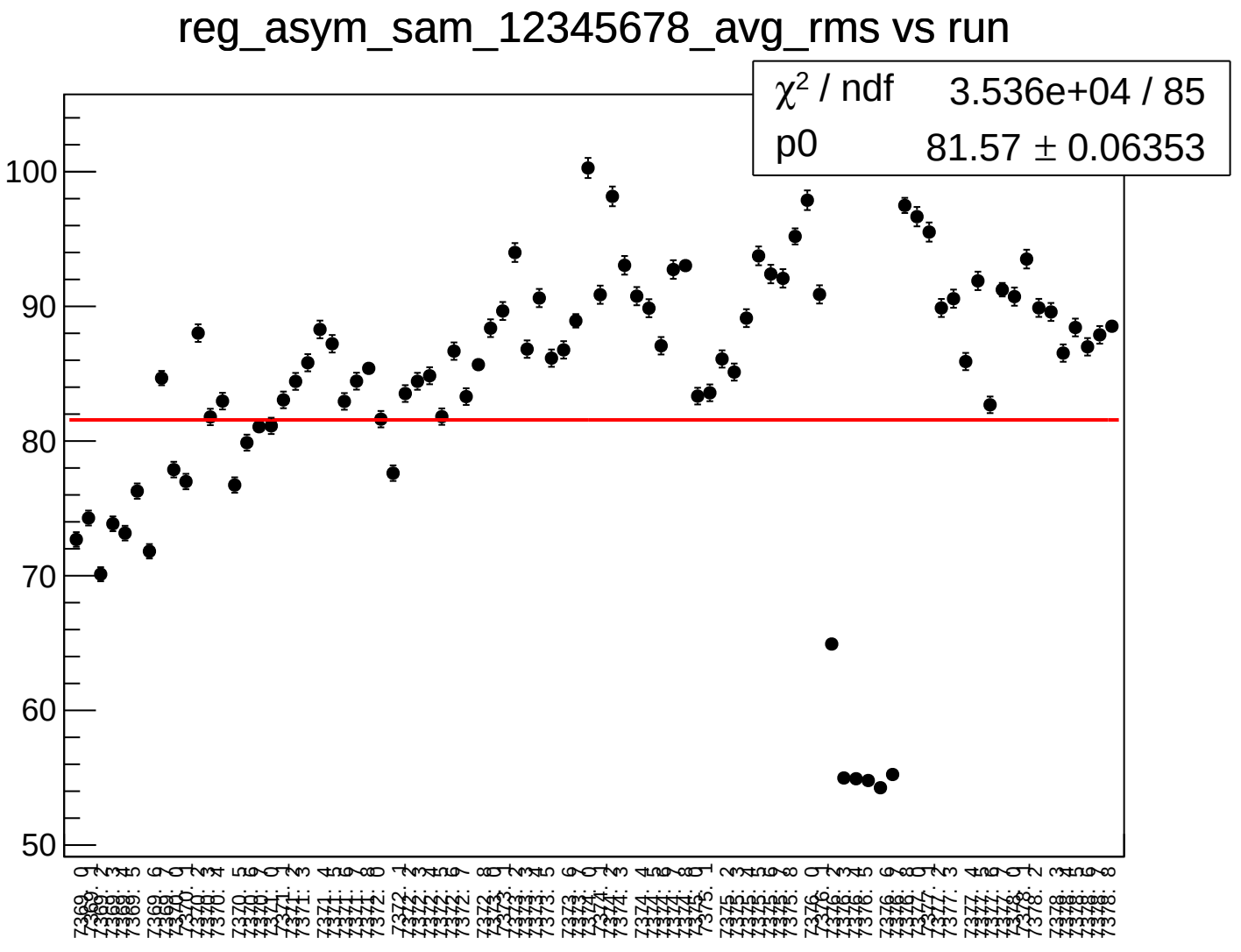

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.077e+05 / 85
p0 39.98 ± 0.0329
90
80
70
60
50
40
30
20

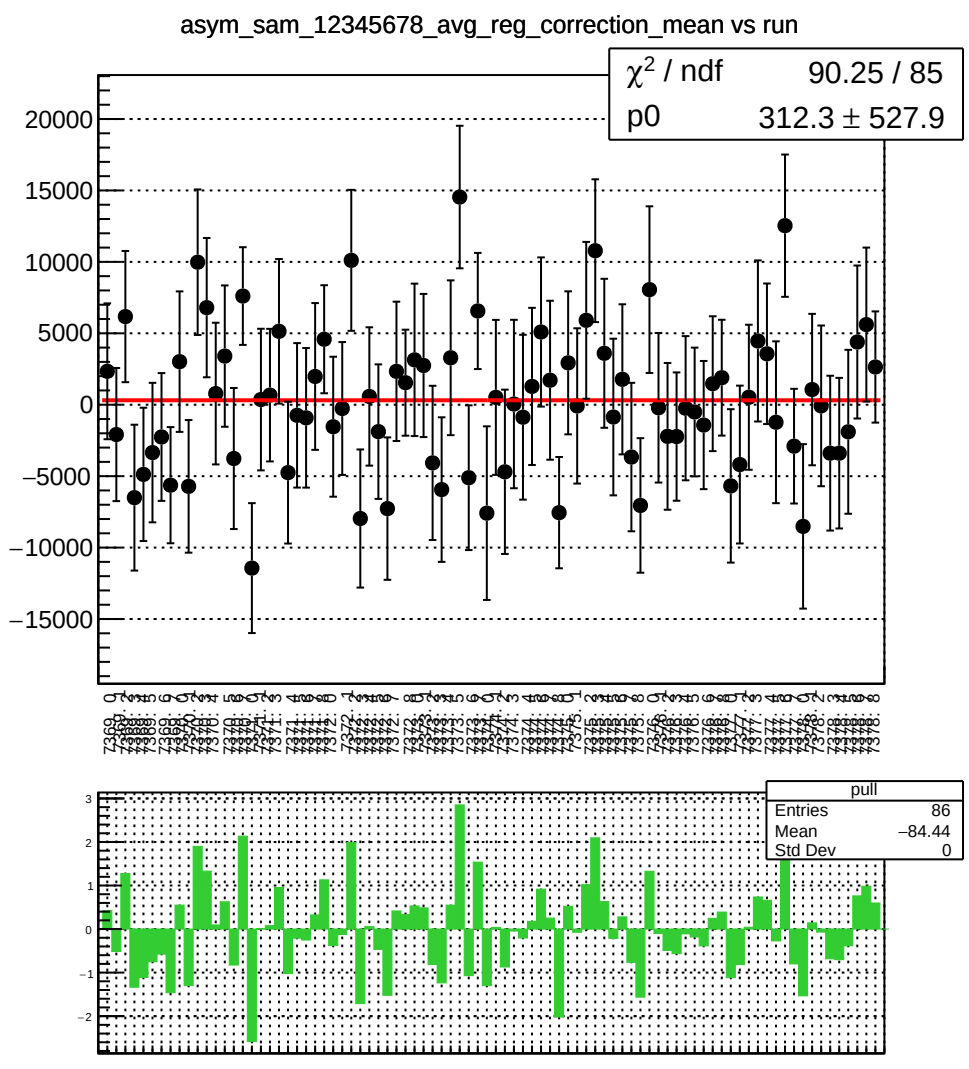

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.84 / 85
p0 −2.128e−15 ± 1.869e−15
pull
Entries 86
Mean 222.4
Std Dev 0
pull1D
Entries 86
Mean 0.01947
Std Dev 1.039

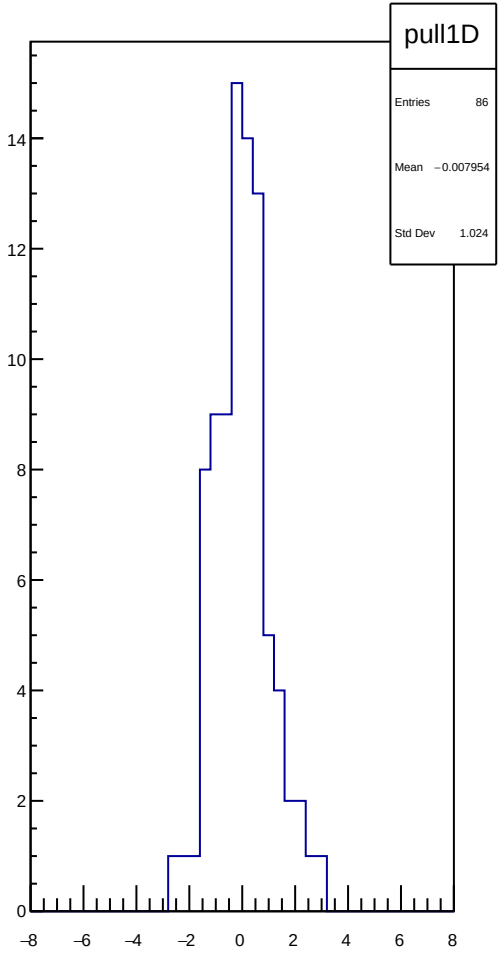

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.066e+05 / 85
p0 1.434e−12 ± 1.321e−15
9
8
7
6
5
4
3
2
1

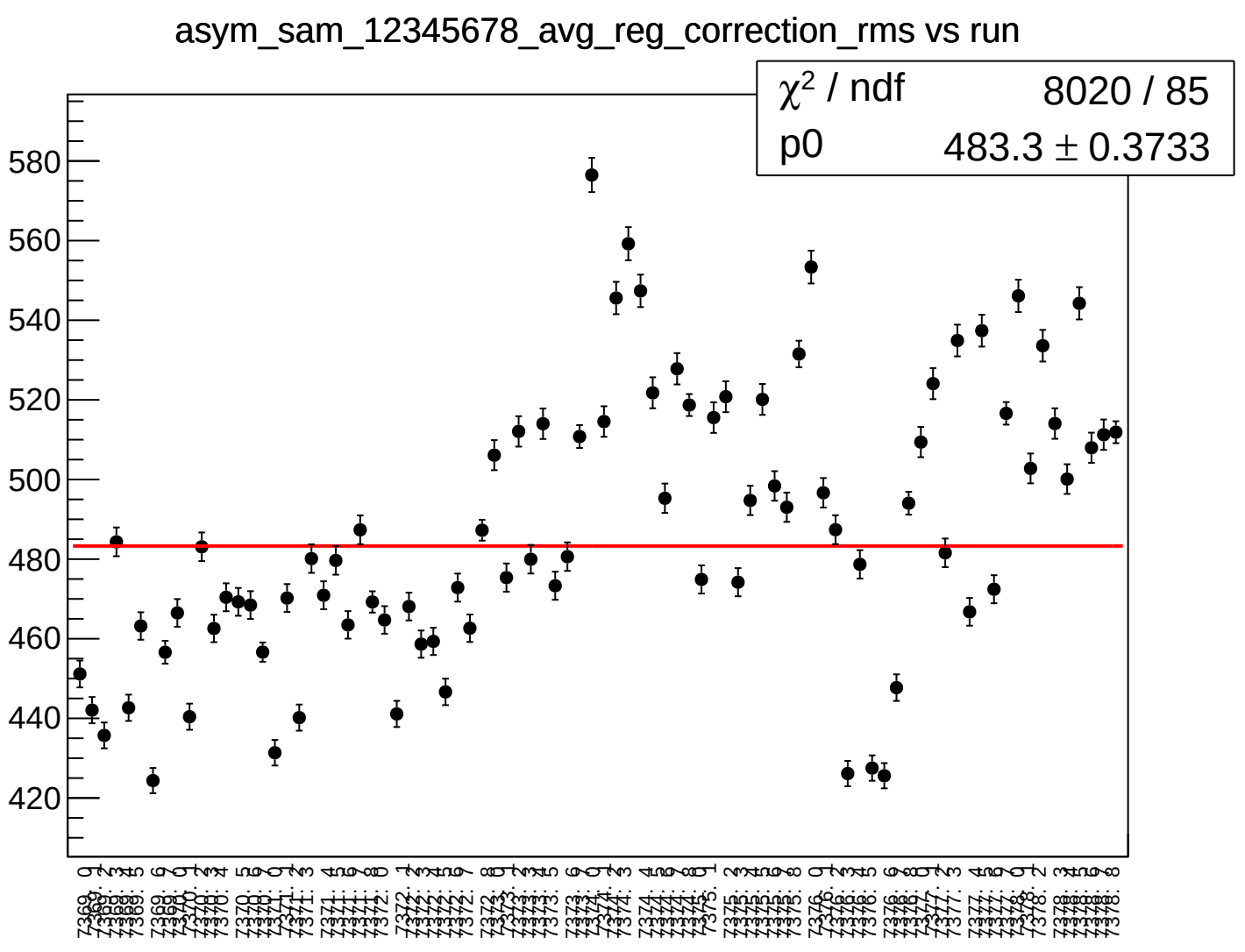

reg_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 107.9 / 85
p0 178.1 ± 89.84
pull
Entries 86
Mean −6.375
Std Dev 0

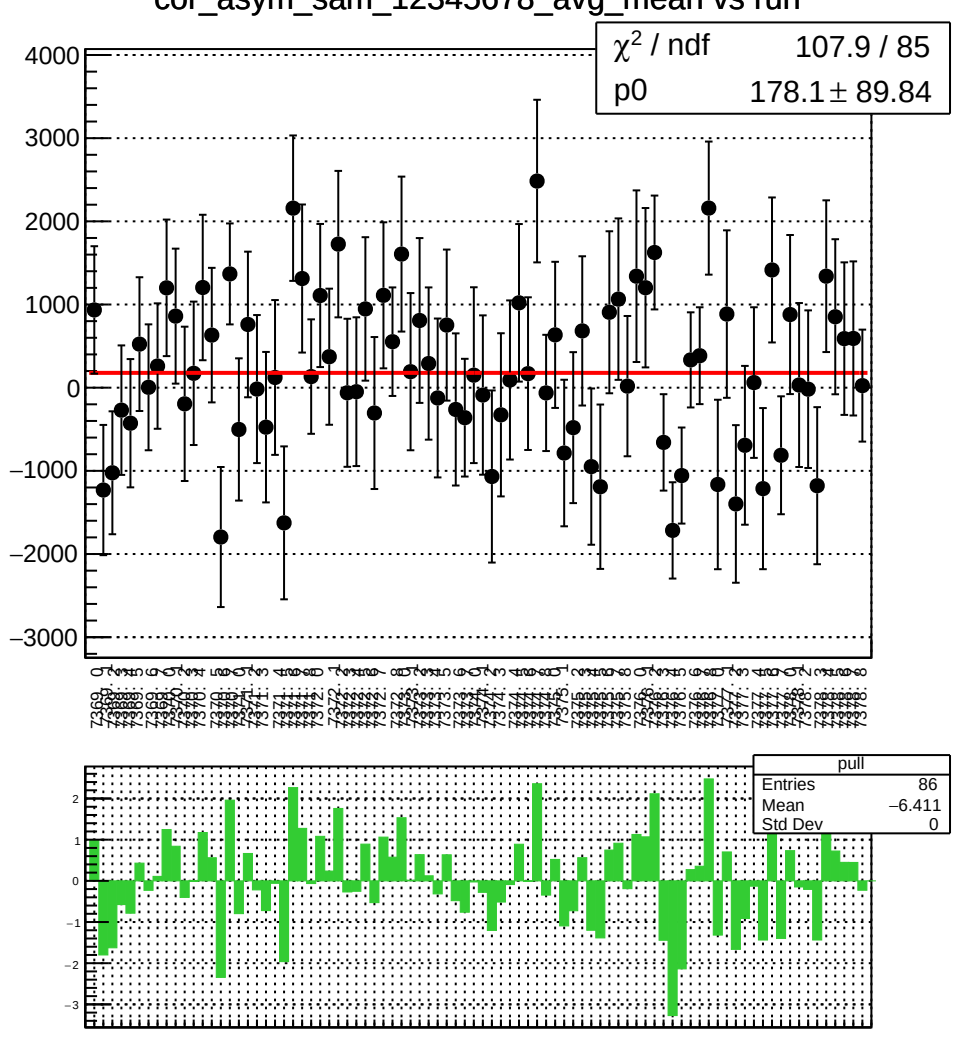

pull1D
Entries 86
Mean 0.0258
Std Dev 1.12

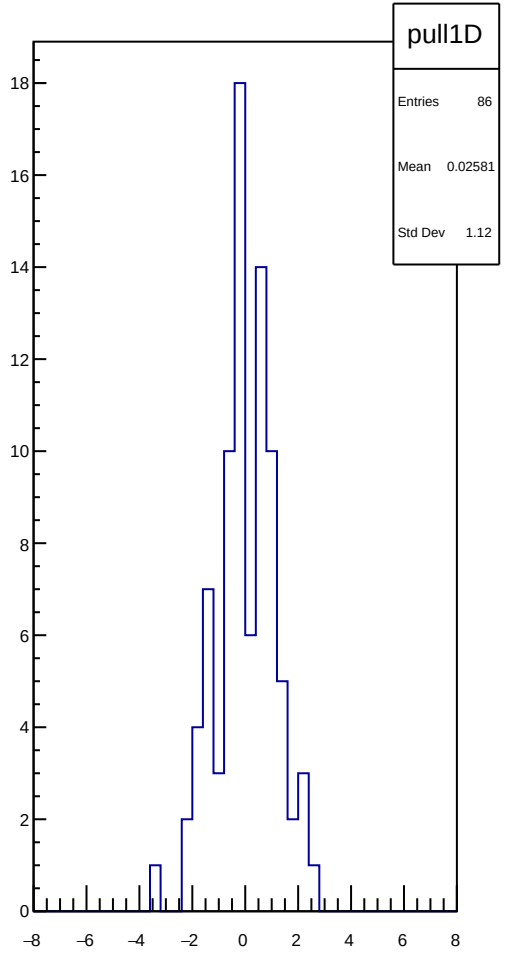

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.536e+04 / 85
p0 81.57 ± 0.06353
100
90
80
70
60
50

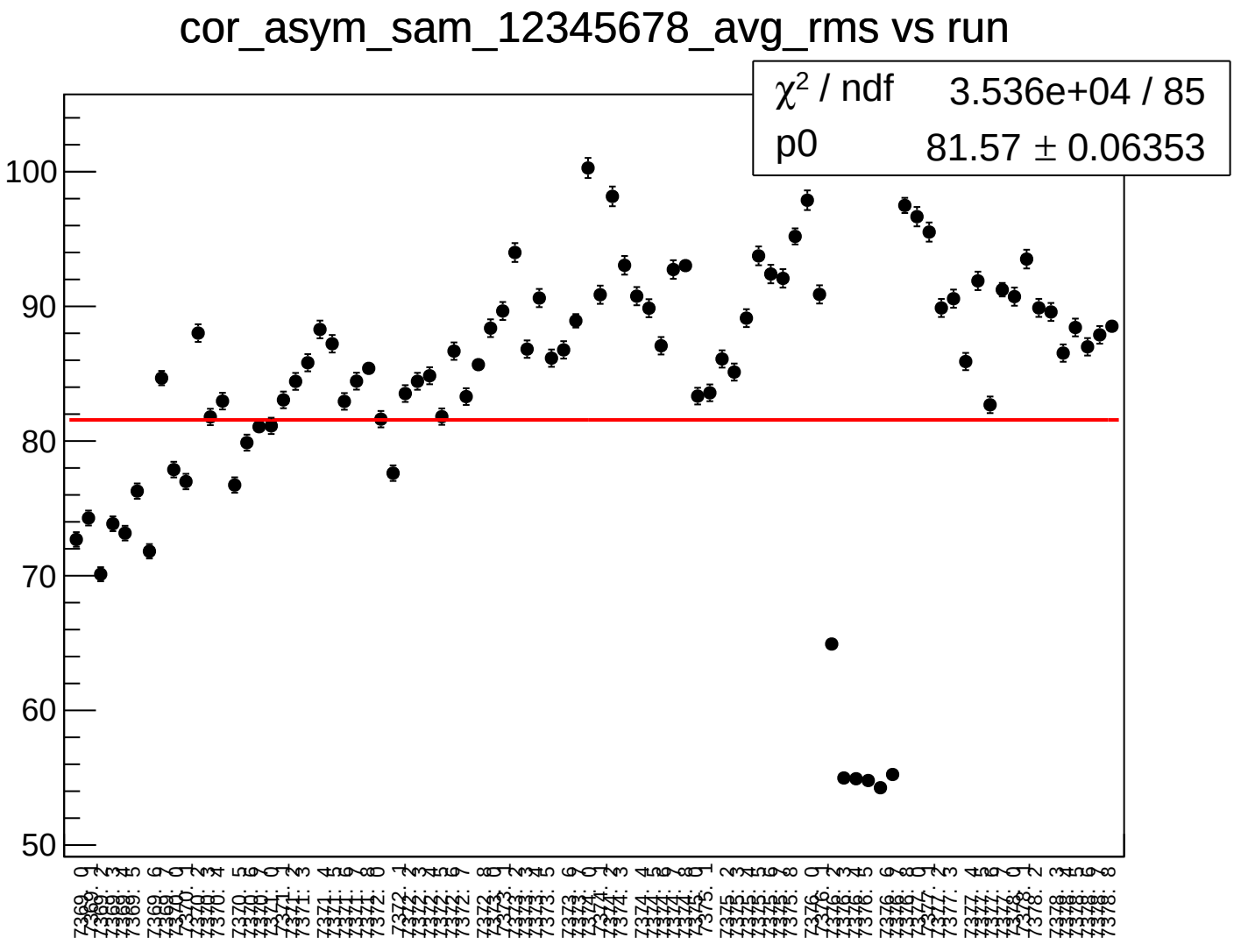

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 90.25 / 85
p0 312.3 ± 527.9
pull
Entries 86
Mean −84.44
Std Dev 0

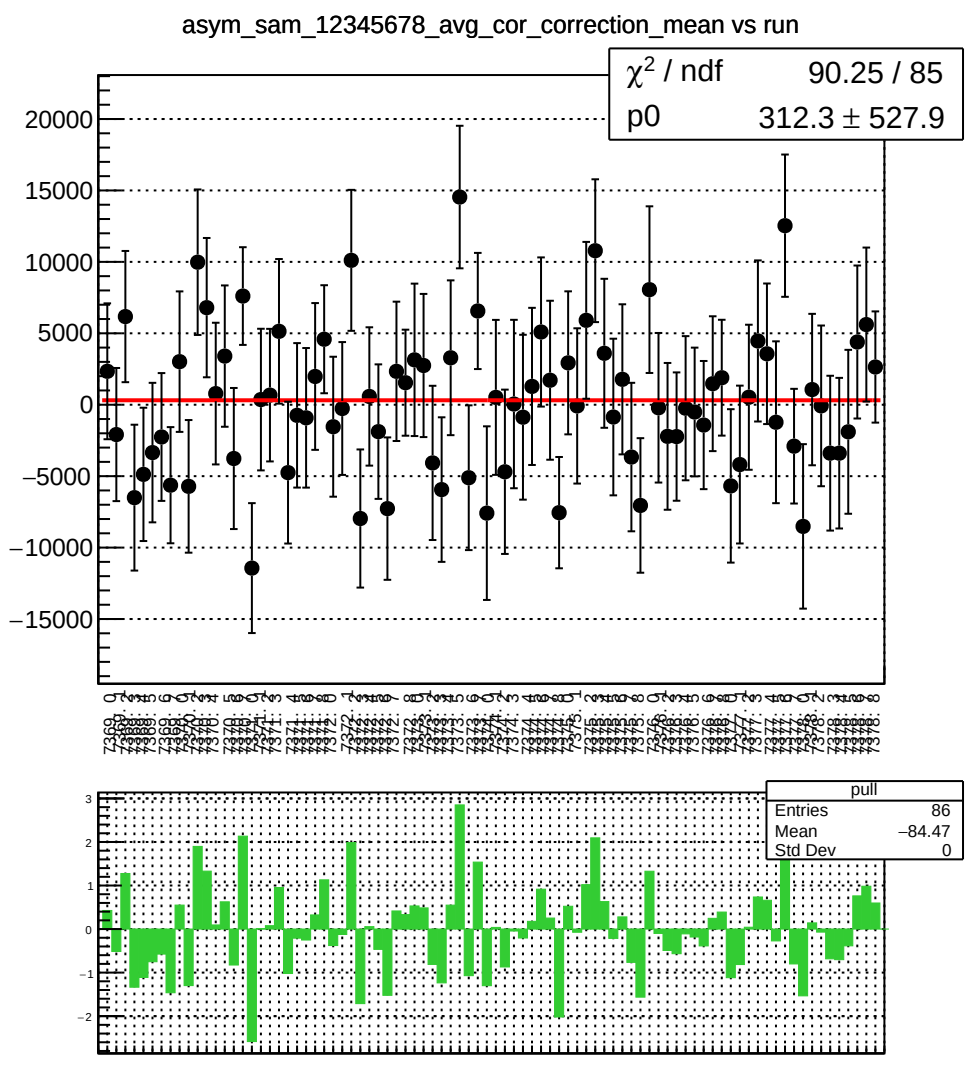

pull1D
Entries 86
Mean −0.007954
Std Dev 1.024

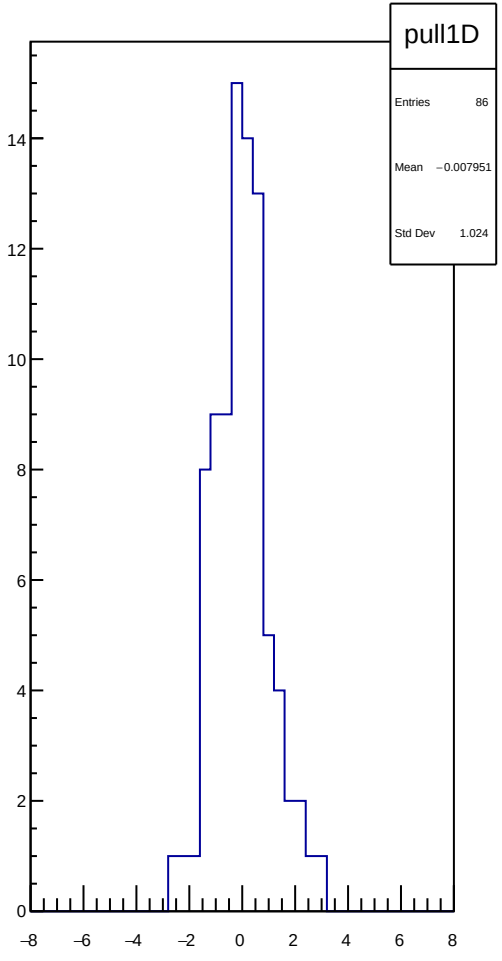

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 8020 / 85
p0 483.3 ± 0.3733
580
560
540
520
500
480
460
440
420

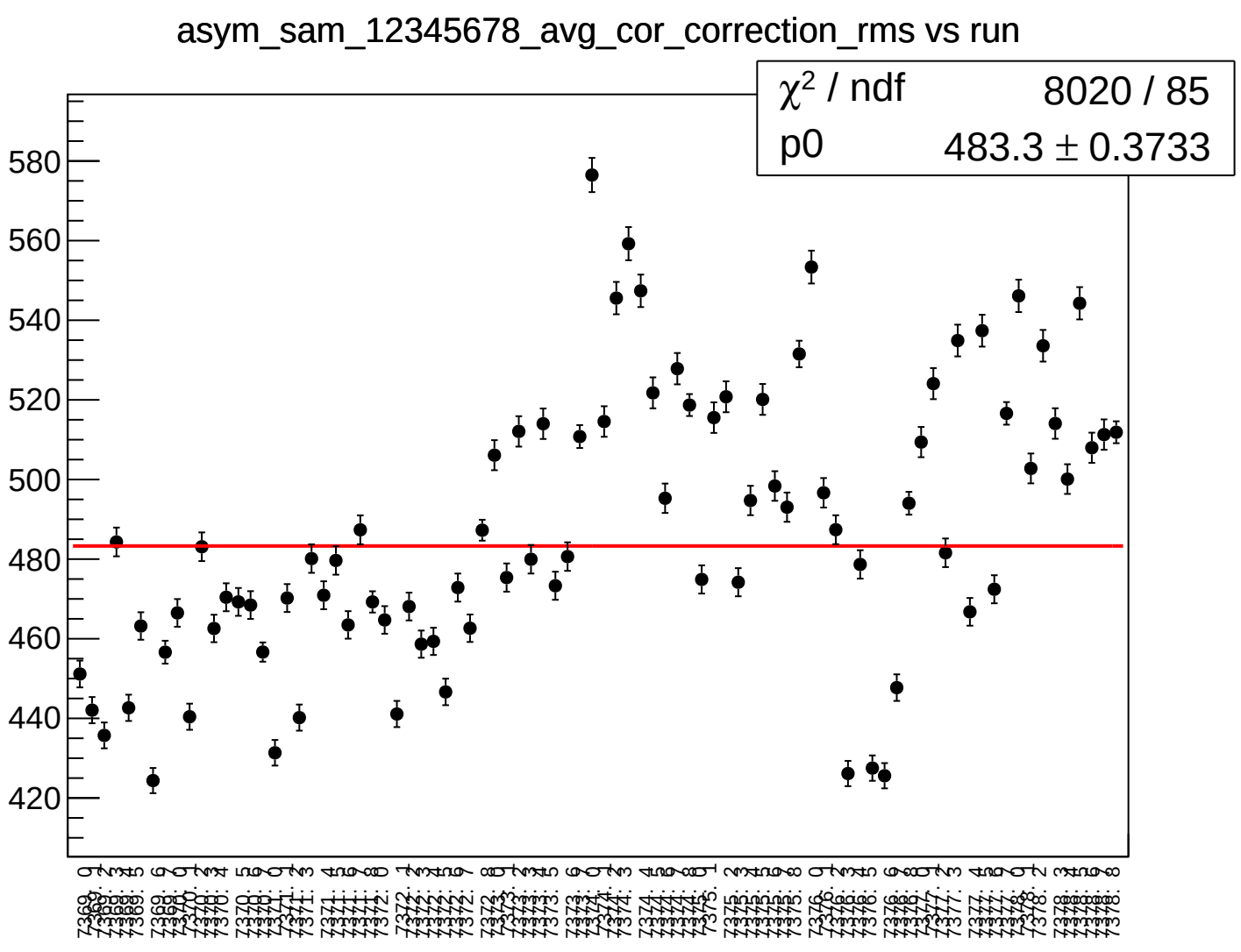

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 107.9 / 85
p0 178.1 ± 89.84
pull
Entries 86
Mean −6.411
Std Dev 0

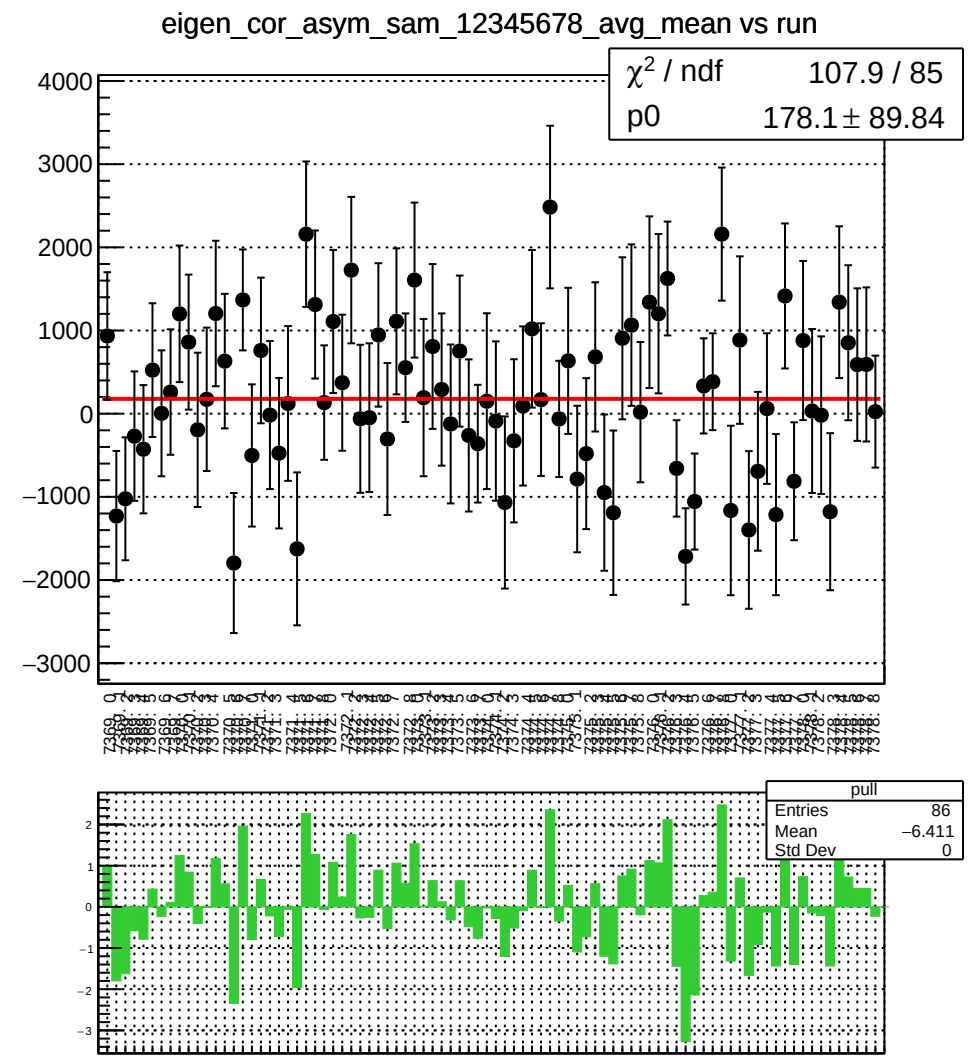

pull1D
Entries 86
Mean 0.02581
Std Dev 1.12

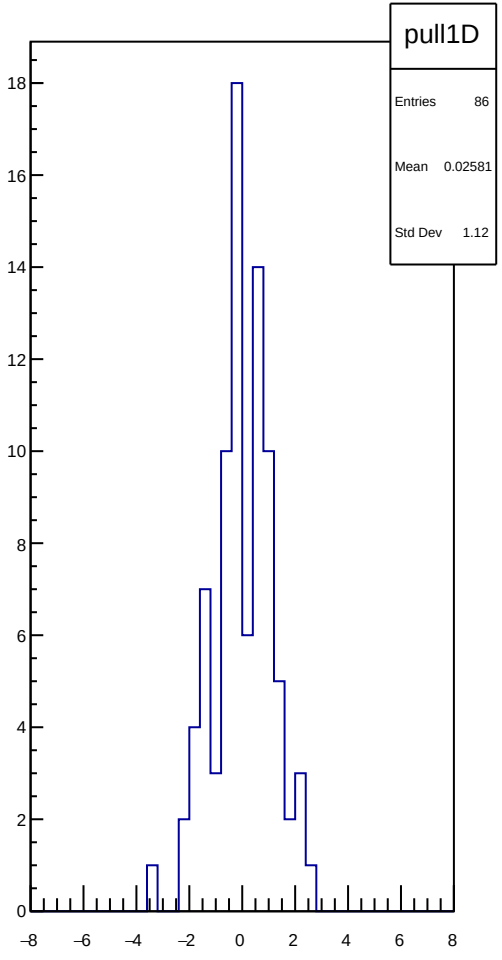

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.536e+04 / 85
p0 81.57 ± 0.06353
100
90
80
70
60
50

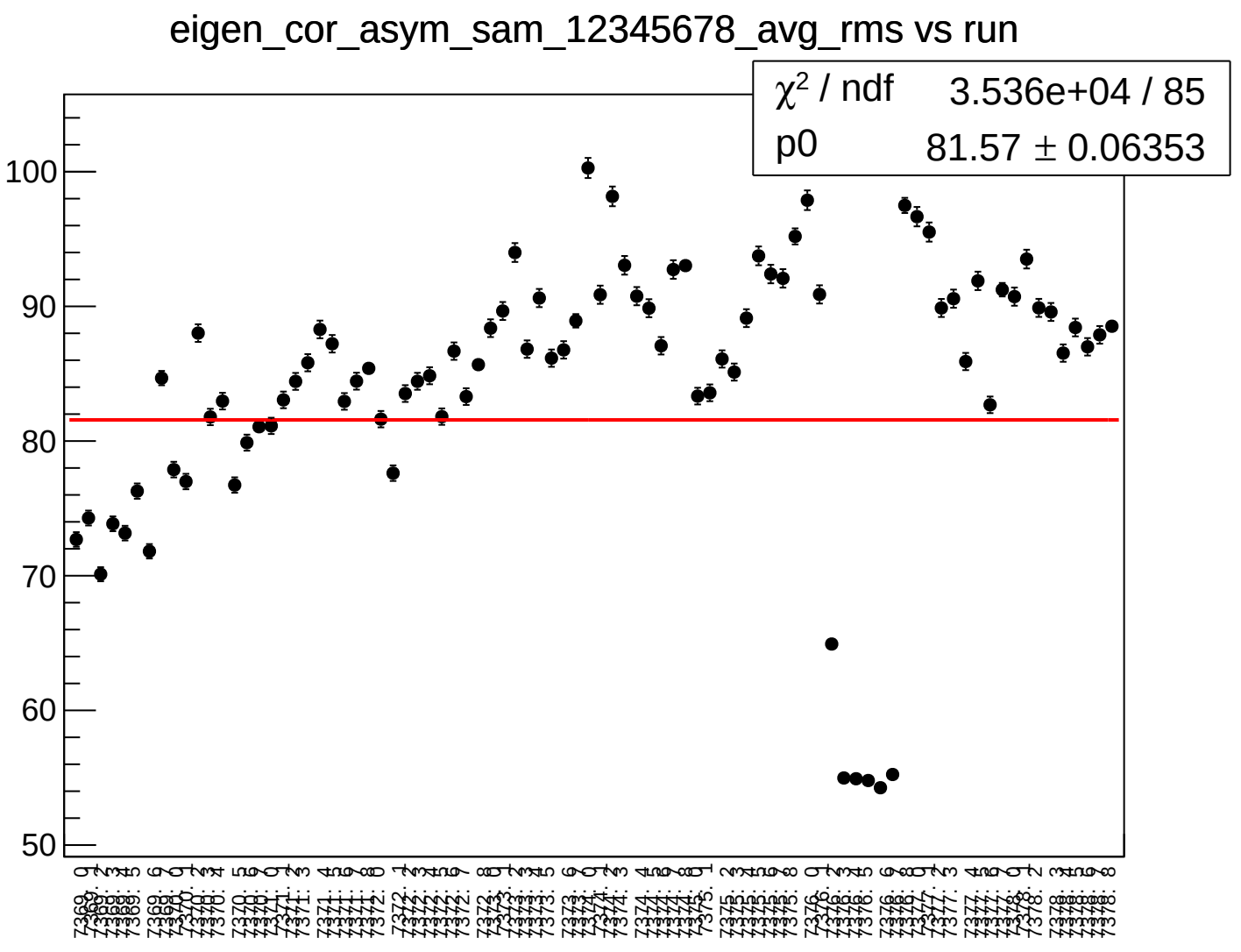

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 90.25 / 85
p0 312.3 ± 527.9
pull
Entries 86
Mean −84.47
Std Dev 0

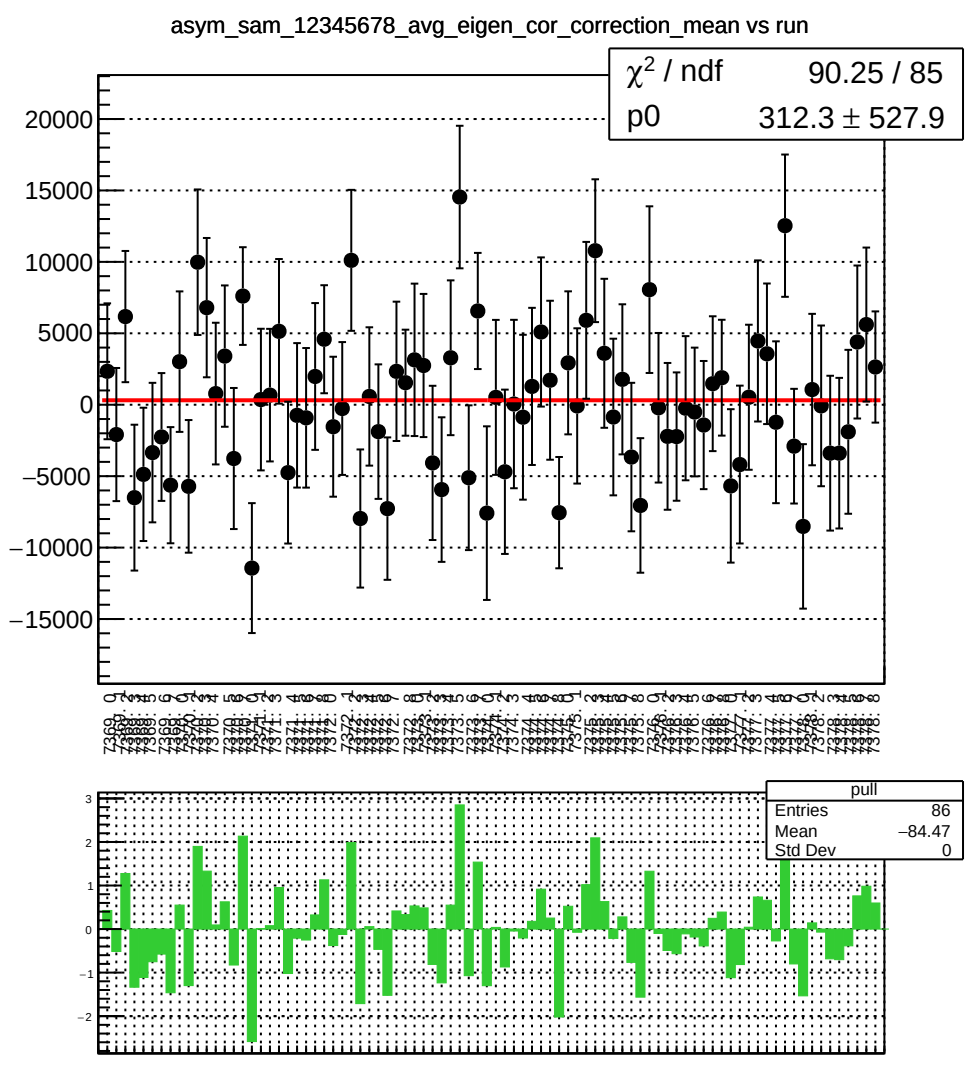

pull1D
Entries 86
Mean −0.007951
Std Dev 1.024

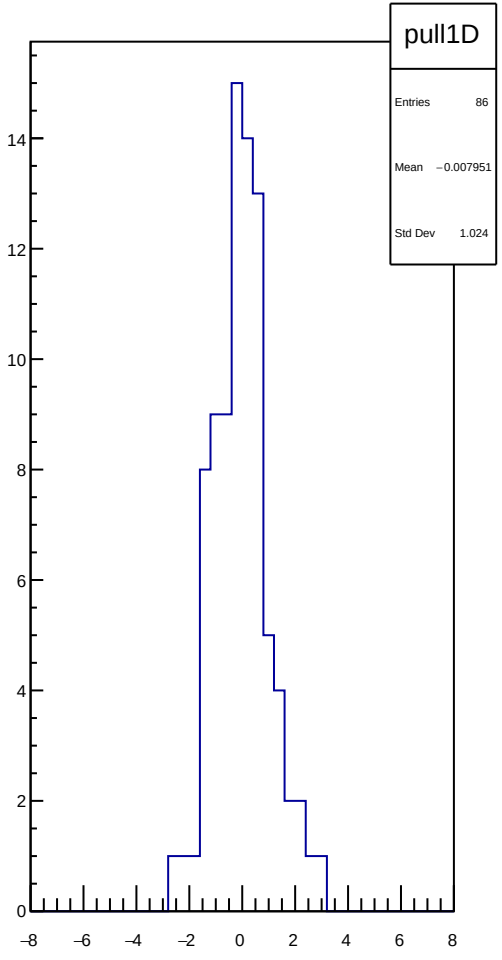

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 8020 / 85
p0 483.3 ± 0.3733
580
560
540
520
500
480
460
440
420

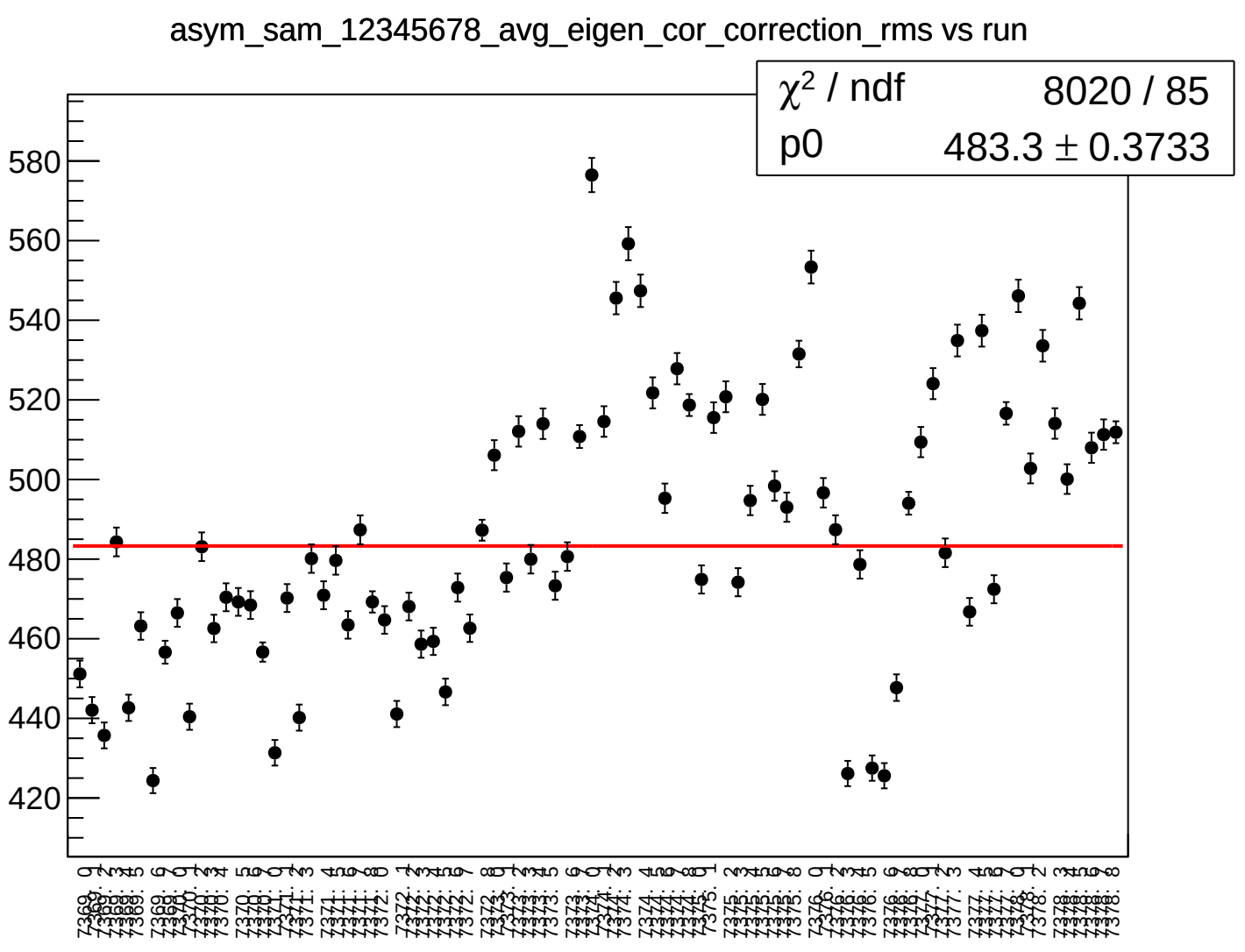

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 107.9 / 85
p0 178.1 ± 89.84
pull
Entries 86
Mean −6.411
Std Dev 0

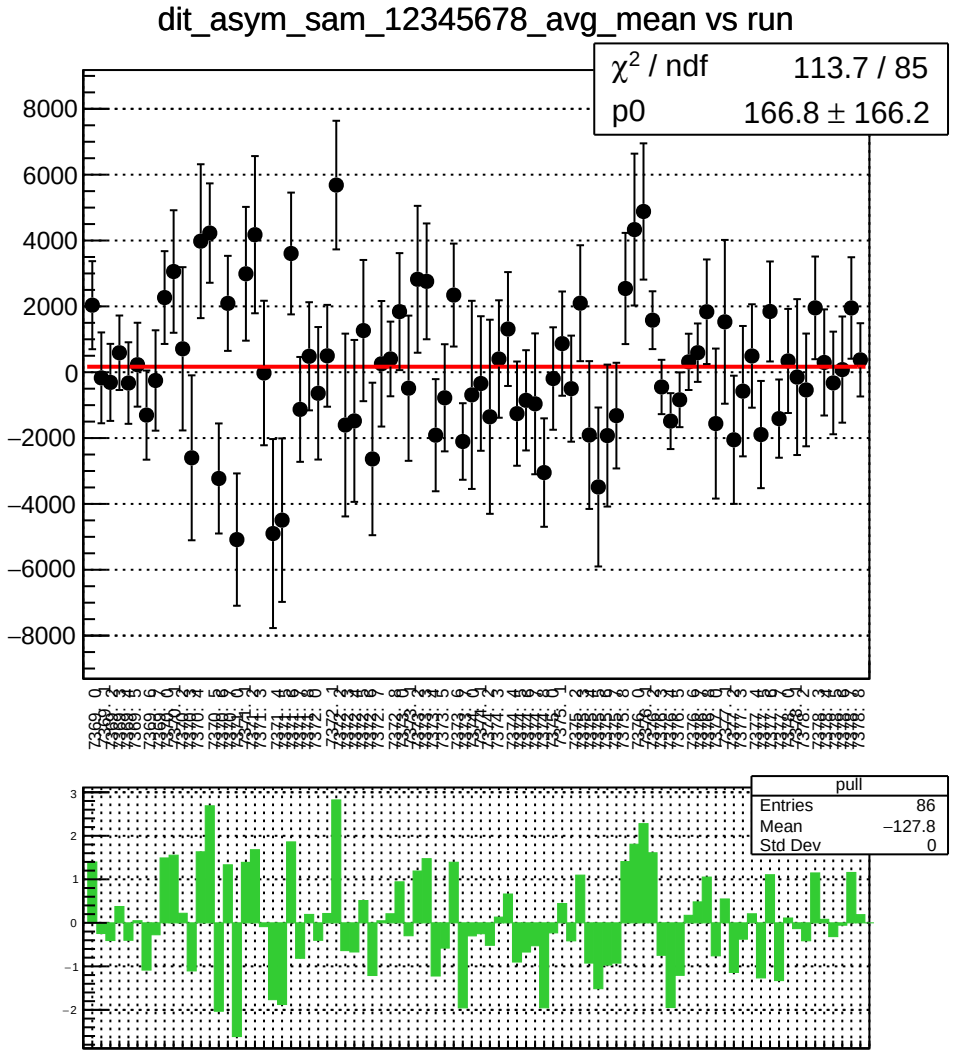

pull1D
Entries 86
Mean 0.02581
Std Dev 1.12

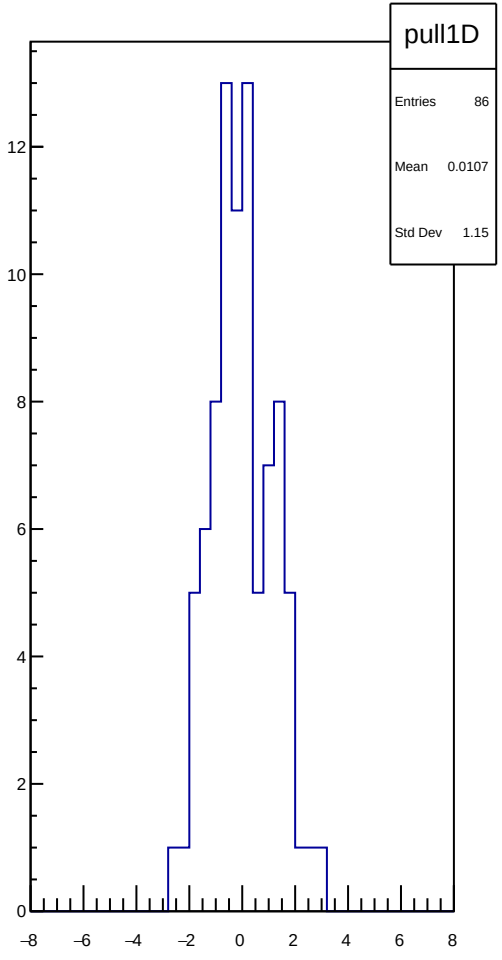

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.536e+04 / 85
p0 81.57 ± 0.06353
100
90
80
70
60
50

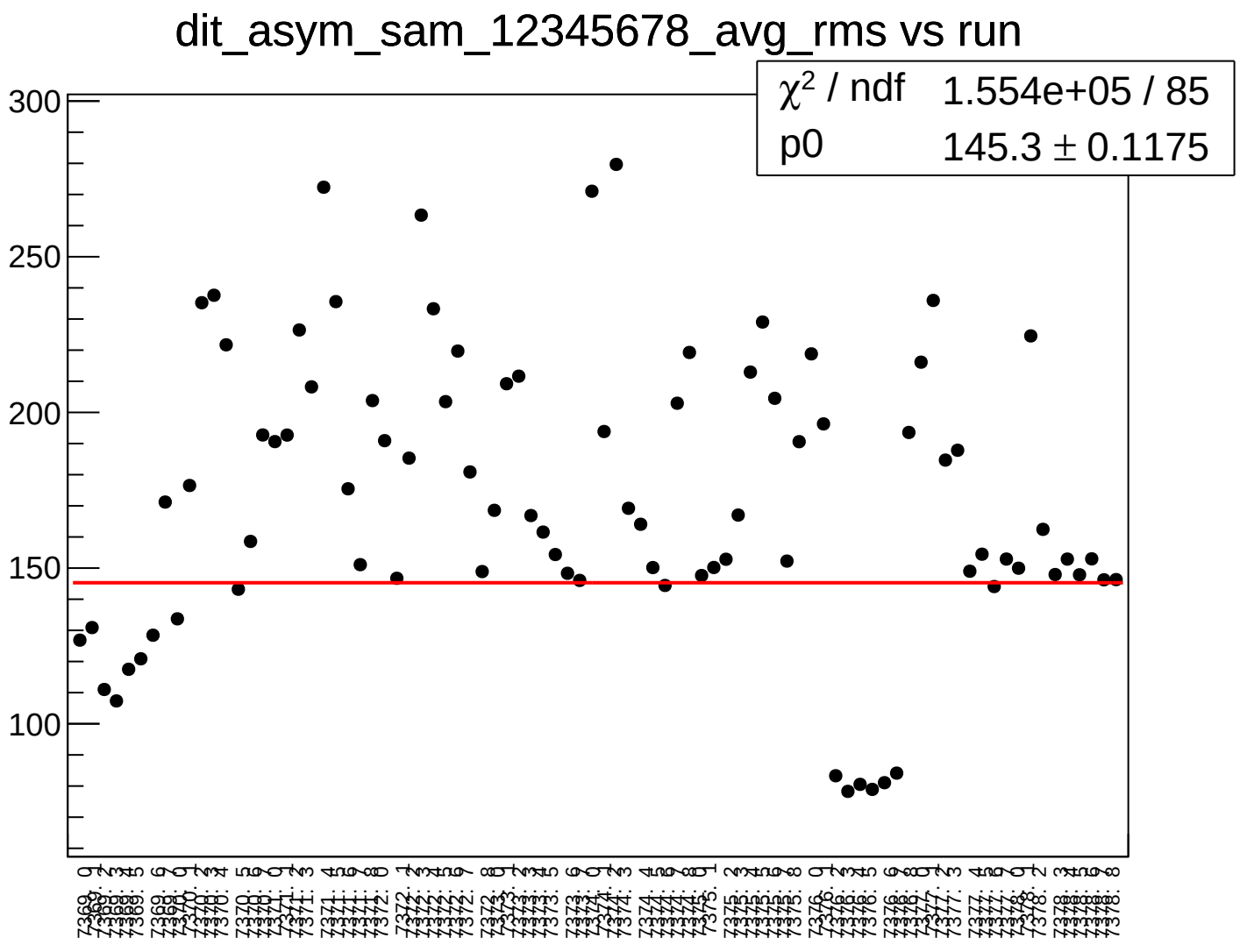

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.25 / 85
p0 312.3 ± 527.9
pull
Entries 86
Mean −84.47
Std Dev 0

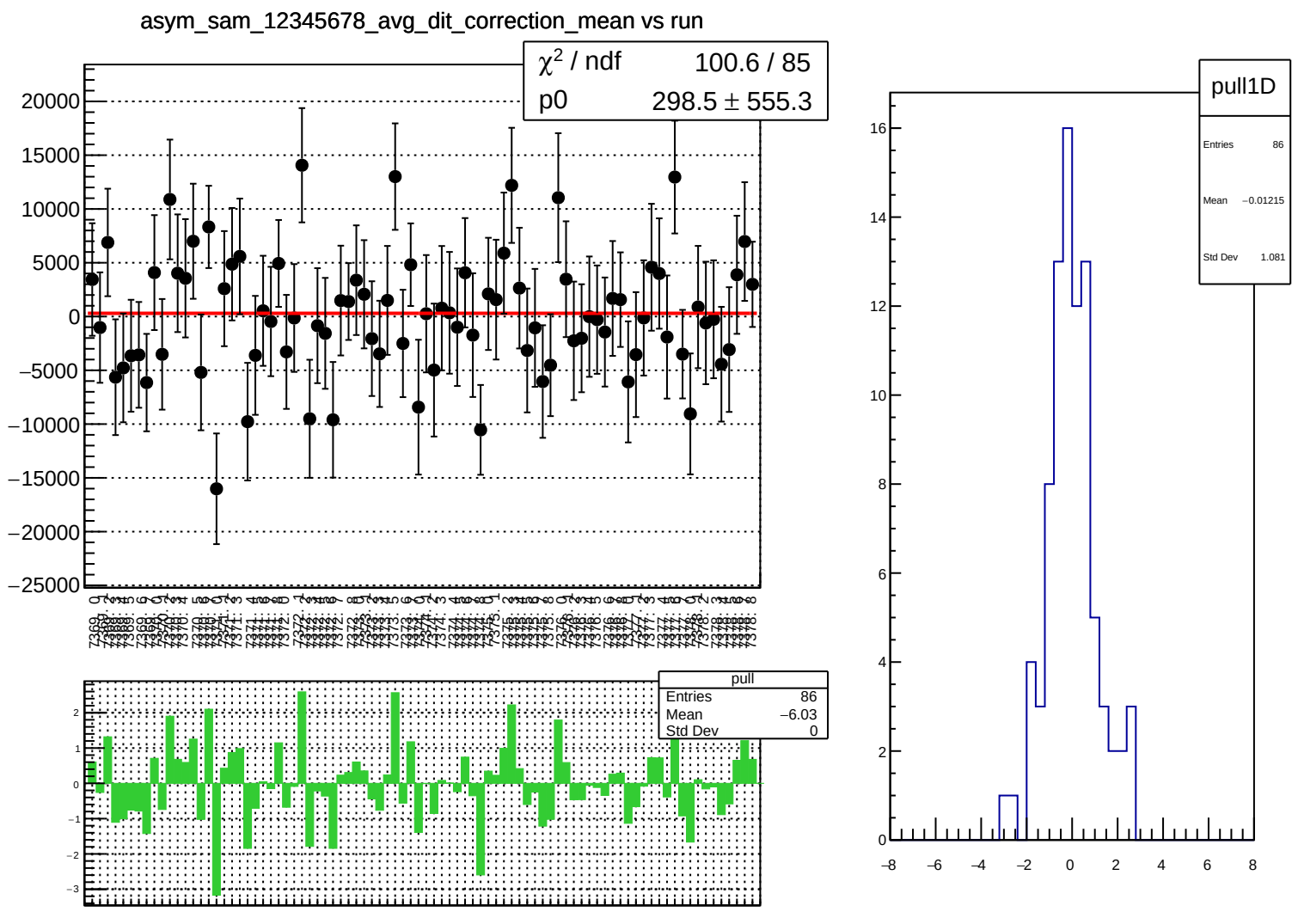

pull1D
Entries 86
Mean −0.007951
Std Dev 1.024

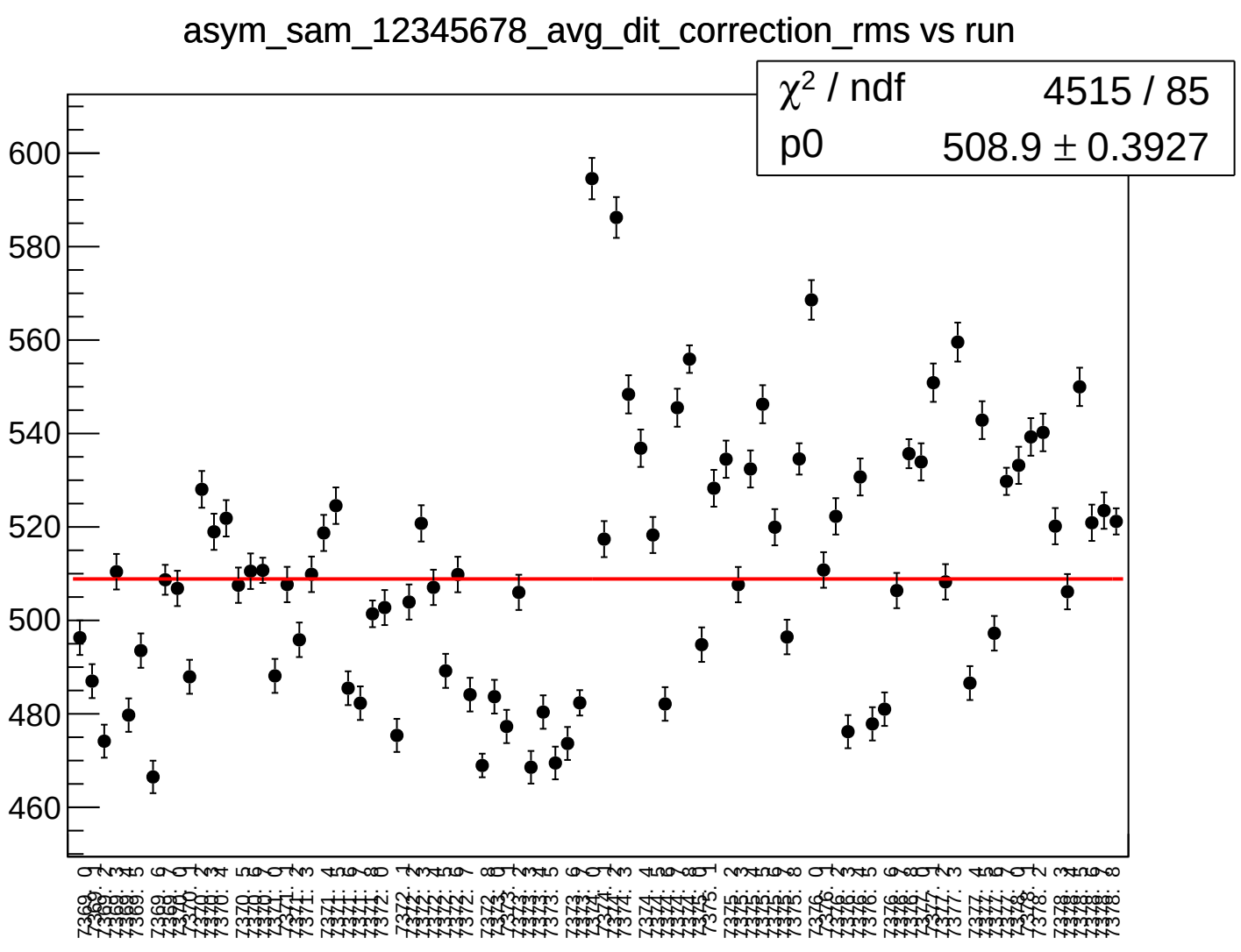

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 8020 / 85
p0 483.3 ± 0.3733
580
560
540
520
500
480
460
440
420

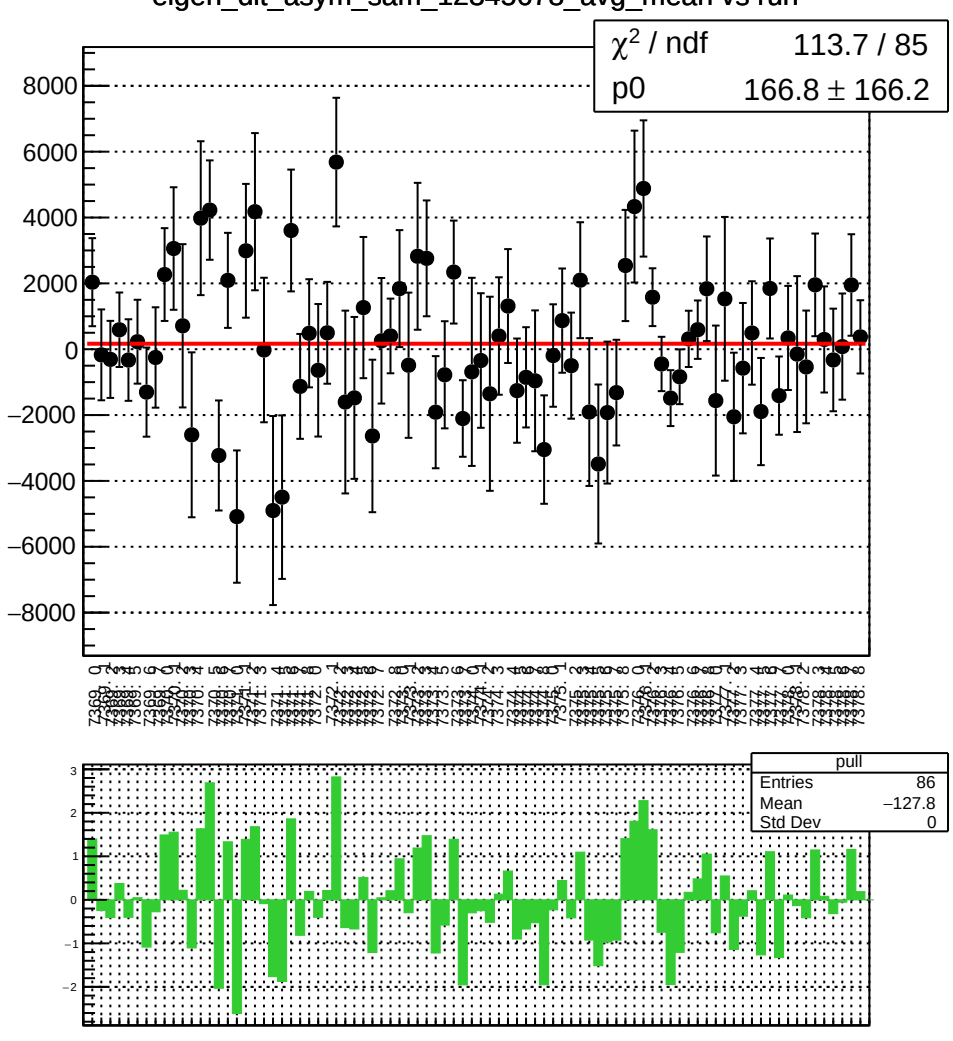

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 113.7 / 85
p0 166.8 ± 166.2
pull
Entries 86
Mean −127.8
Std Dev 0

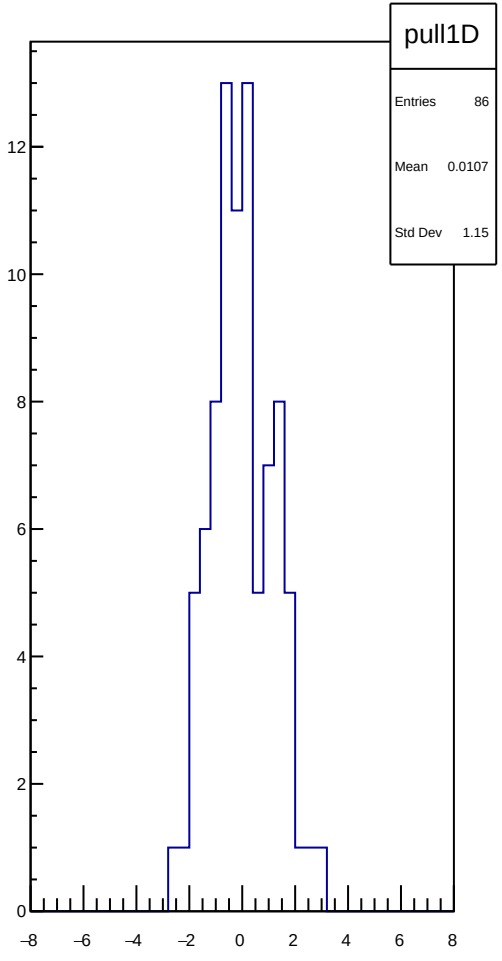

pull1D
Entries 86
Mean 0.0107
Std Dev 1.15

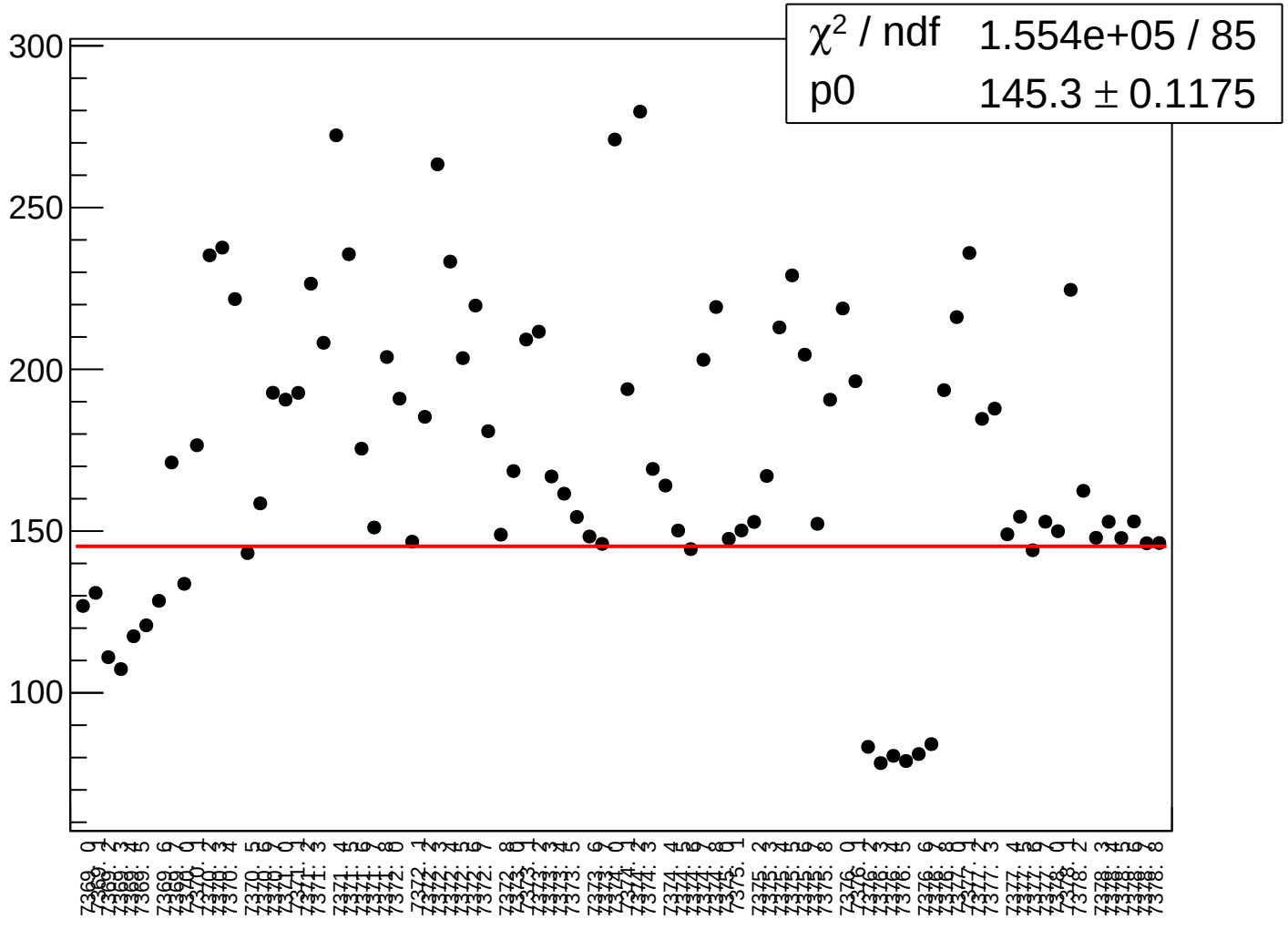

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.554e+05 / 85
p0 145.3 ± 0.1175
300
250
200
150
100

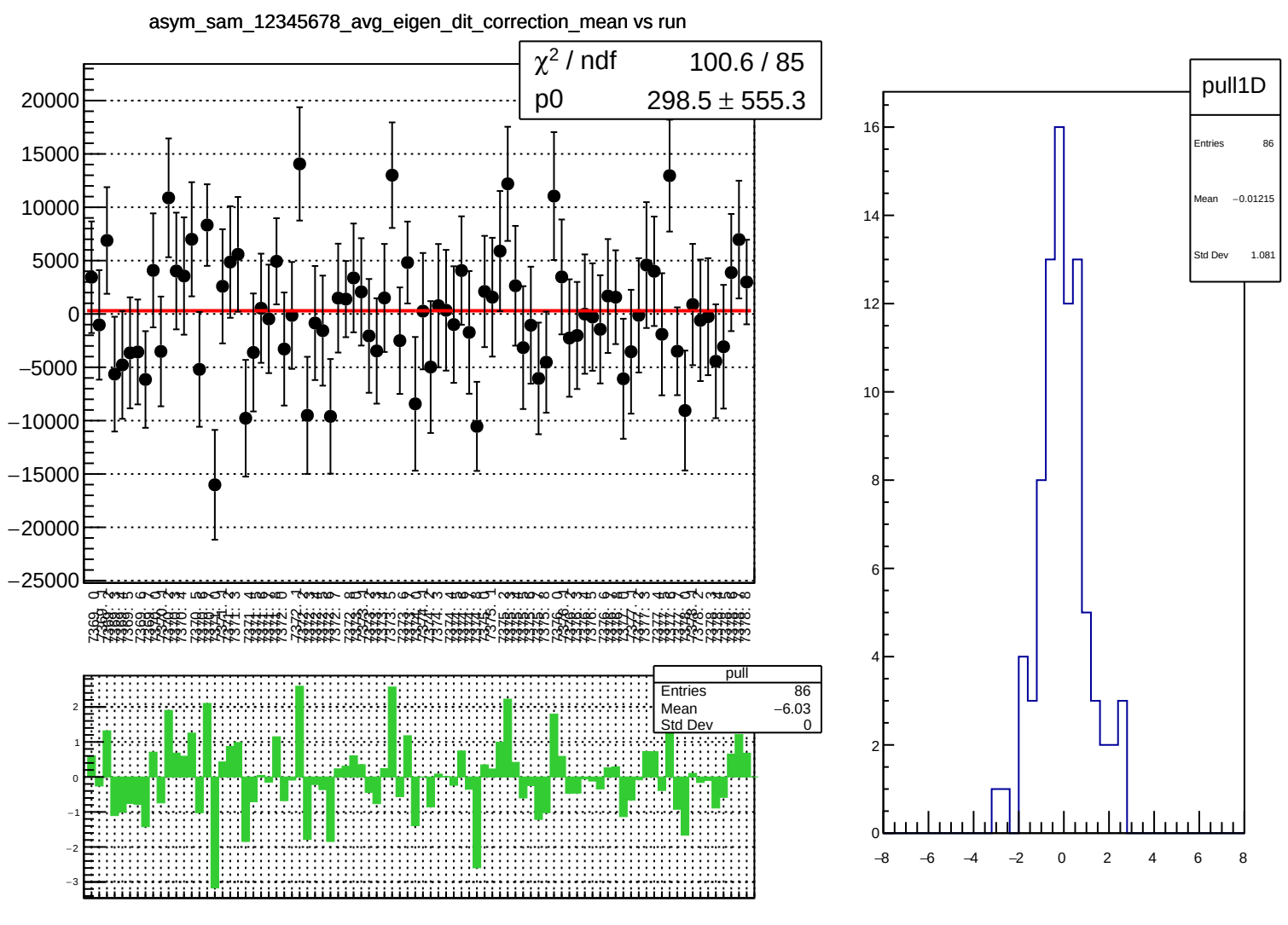

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 100.6 / 85
p0 298.5 ± 555.3
pull
Entries 86
Mean −6.03
Std Dev 0
pull1D
Entries 86
Mean −0.01215
Std Dev 1.081

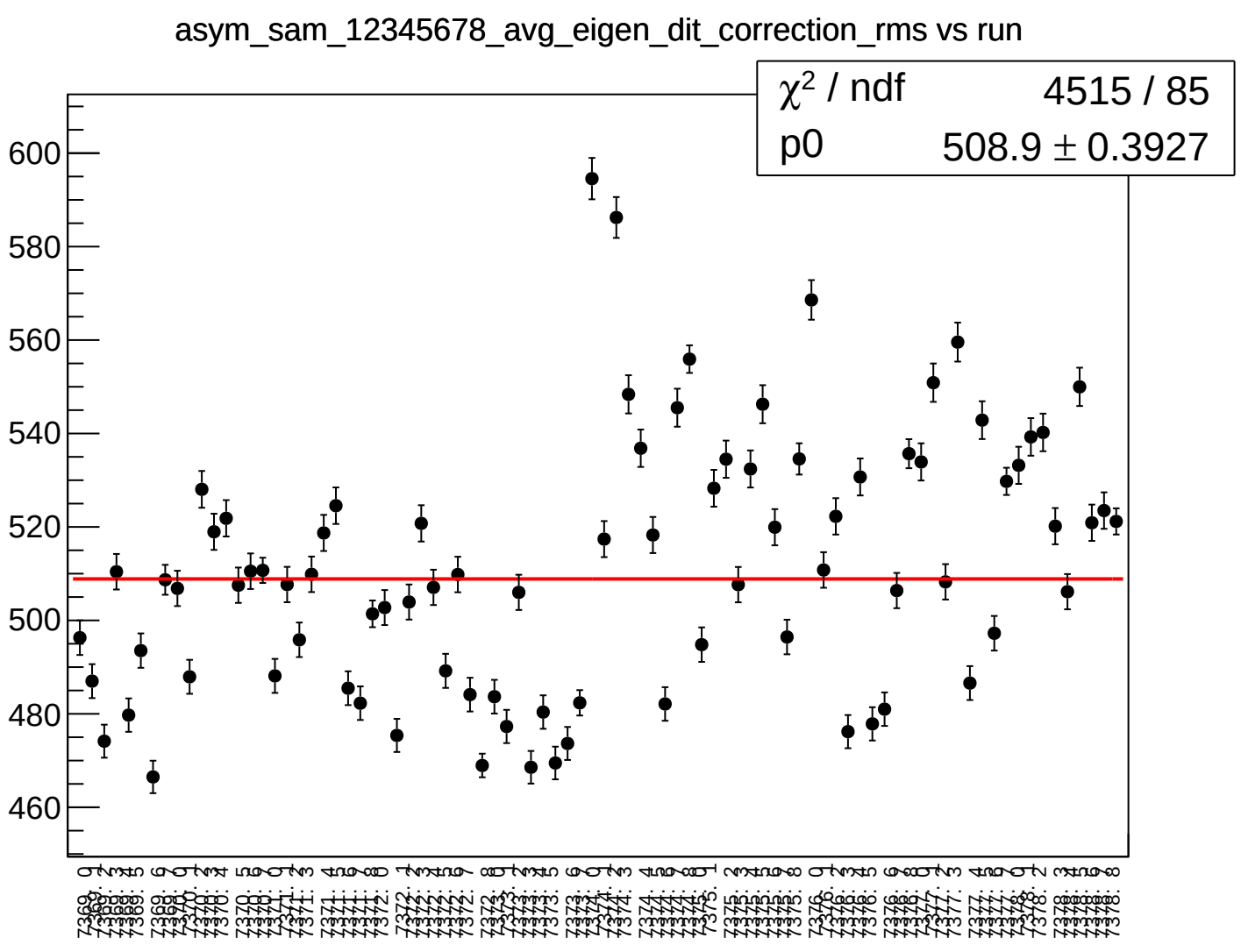

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 4515 / 85
p0 508.9 ± 0.3927
600
580
560
540
520
500
480
460

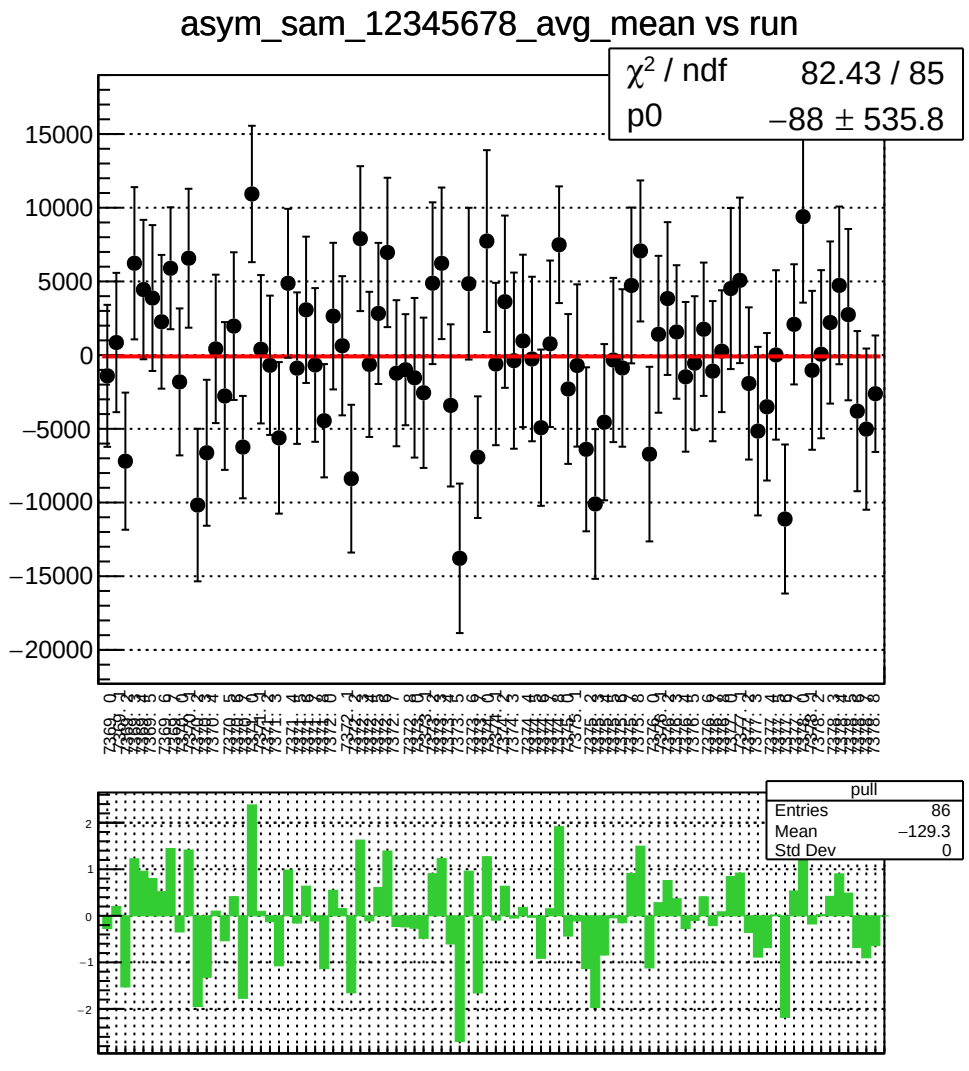

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 113.7 / 85
p0 166.8 ± 166.2
pull
Entries 86
Mean −127.8
Std Dev 0

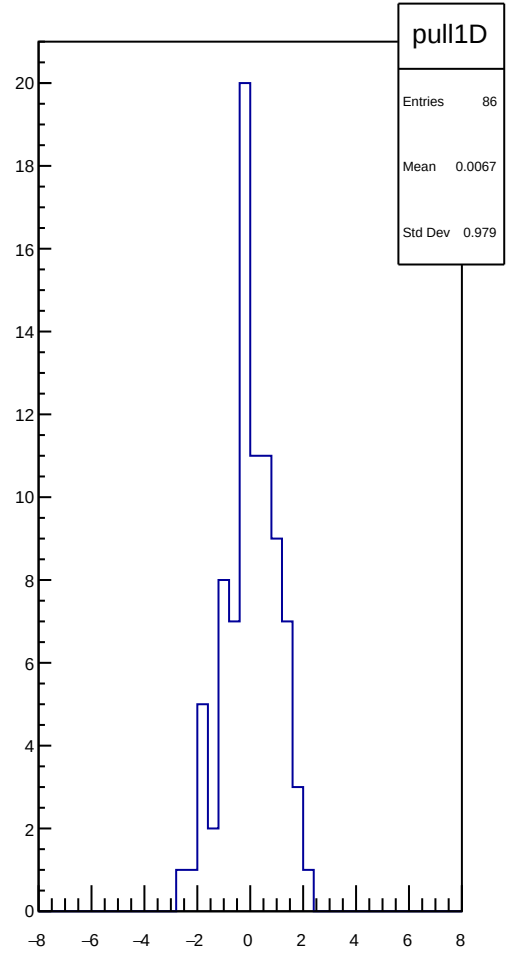

pull1D
Entries 86
Mean 0.0107
Std Dev 1.15

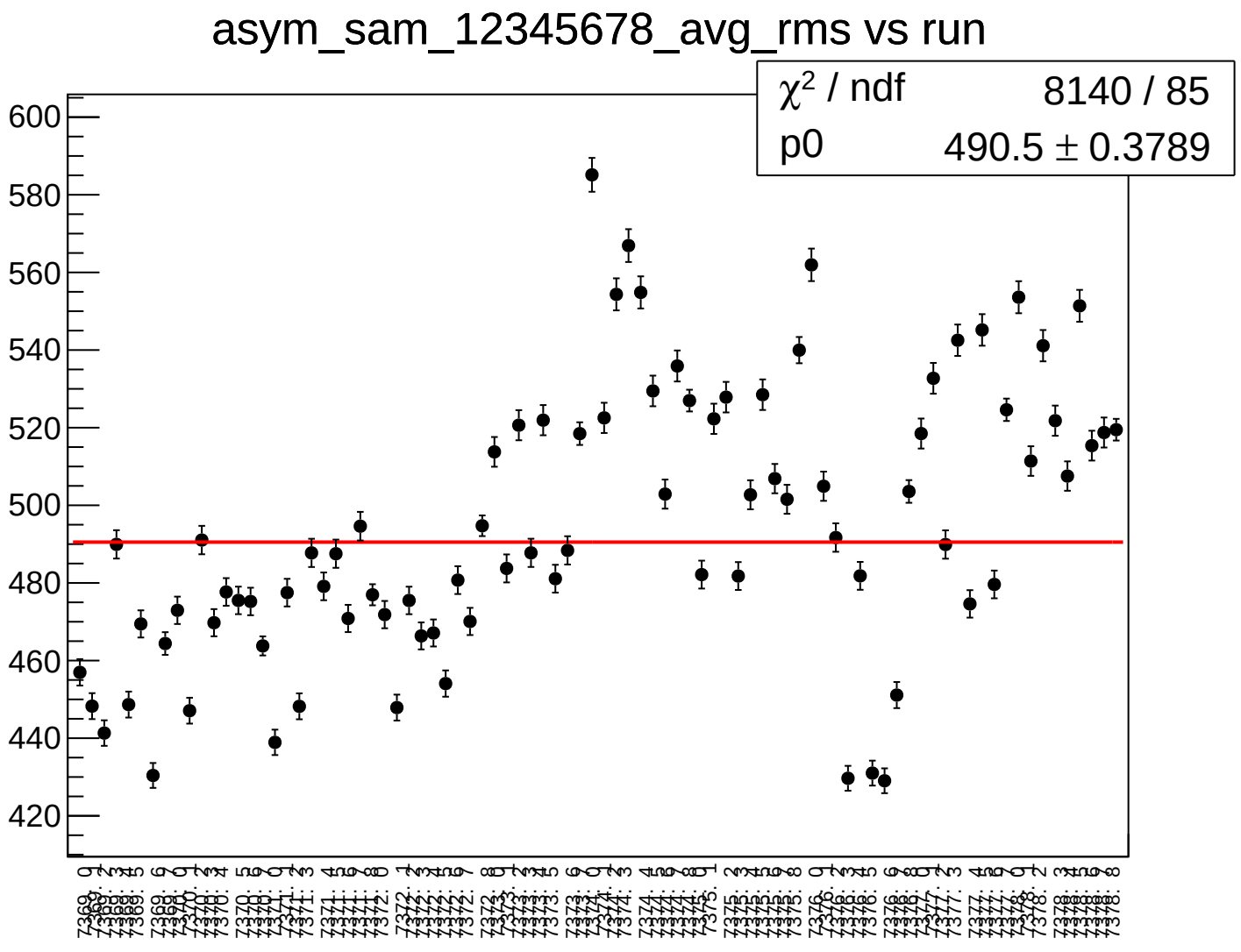

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.554e+05 / 85
p0 145.3 ± 0.1175
300
250
200
150
100

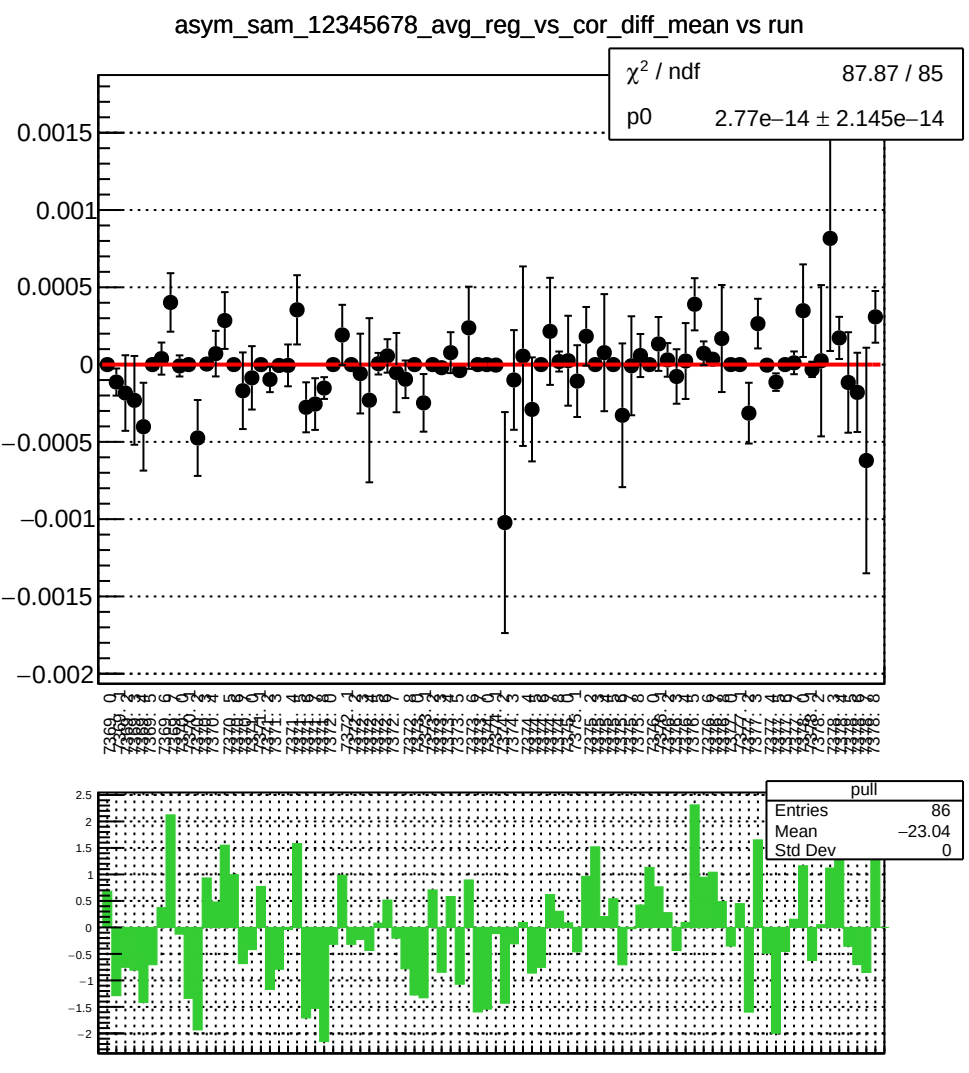

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.6 / 85
p0 298.5 ± 555.3
pull
Entries 86
Mean −6.03
Std Dev 0
pull1D
Entries 86
Mean −0.01215
Std Dev 1.081

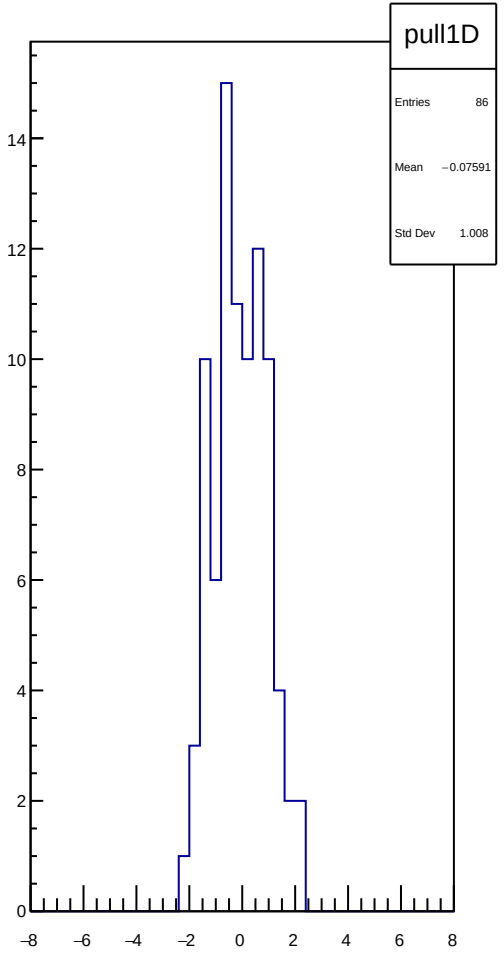

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 4515 / 85
p0 508.9 ± 0.3927
600
580
560
540
520
500
480
460

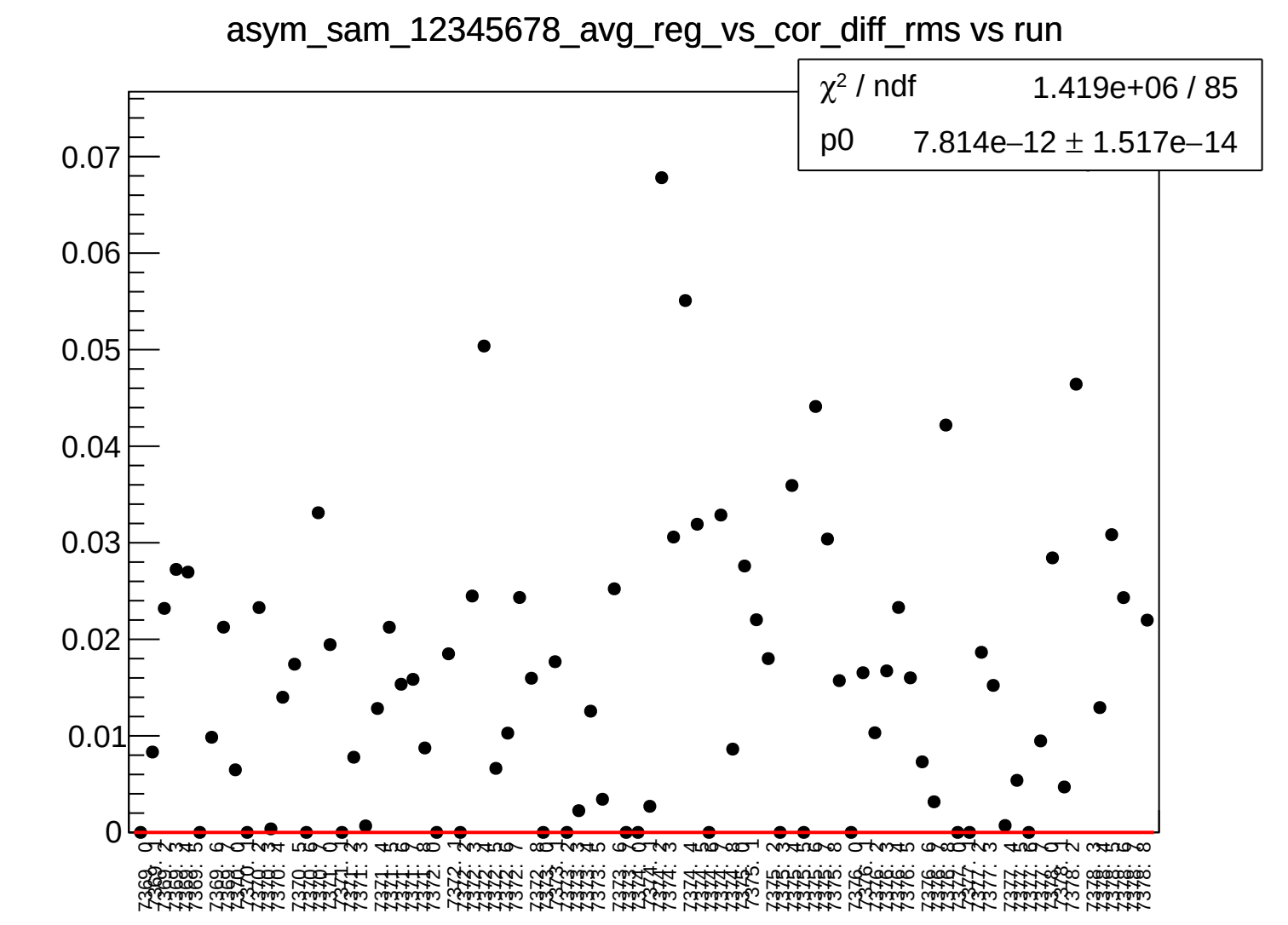

asym_sam_12345678_avg_mean vs run
χ² / ndf 82.43 / 85
p0 −88 ± 535.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −129.3
Std Dev 0
2
1
0
−1
−2

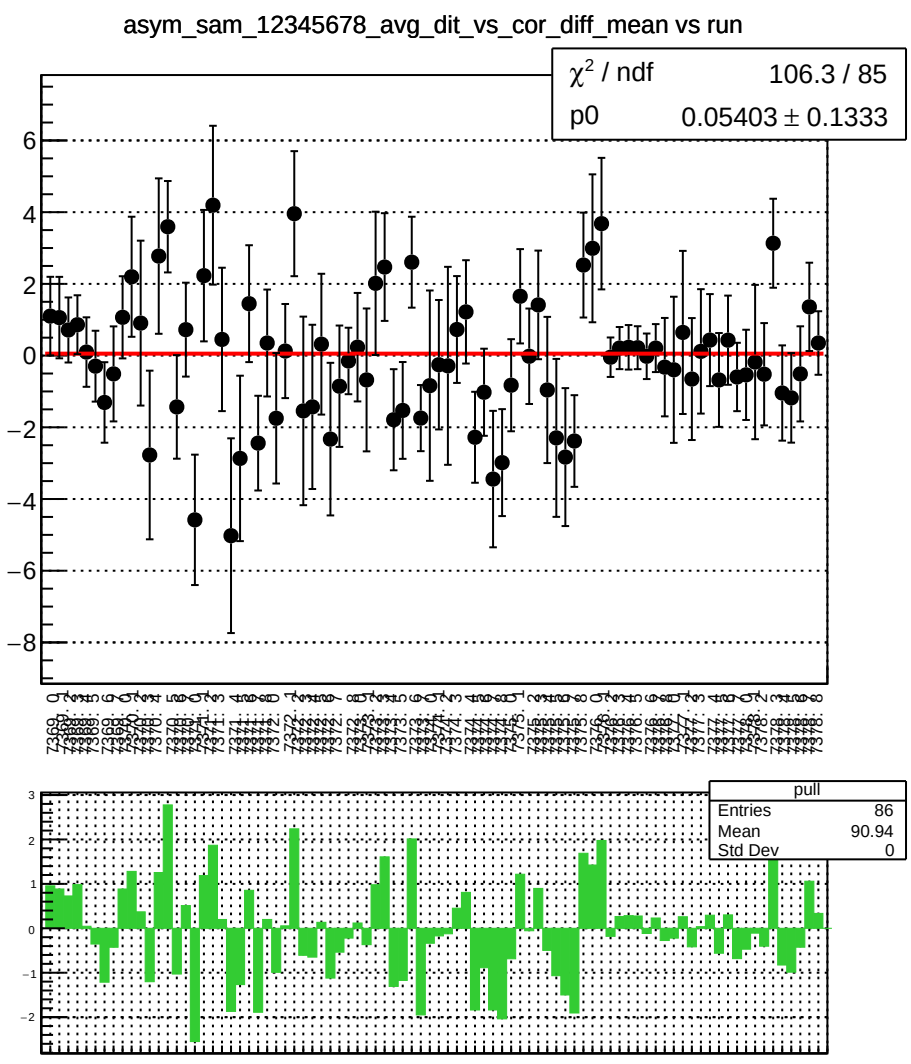

pull1D
Entries 86
Mean 0.0067
Std Dev 0.979
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

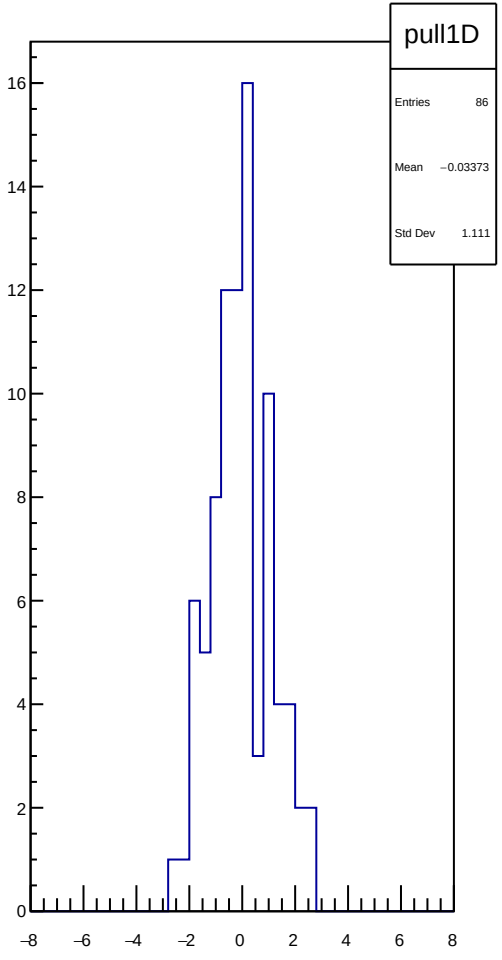

asym_sam_12345678_avg_rms vs run
χ² / ndf 8140 / 85
p0 490.5 ± 0.3789
600
580
560
540
520
500
480
460
440
420

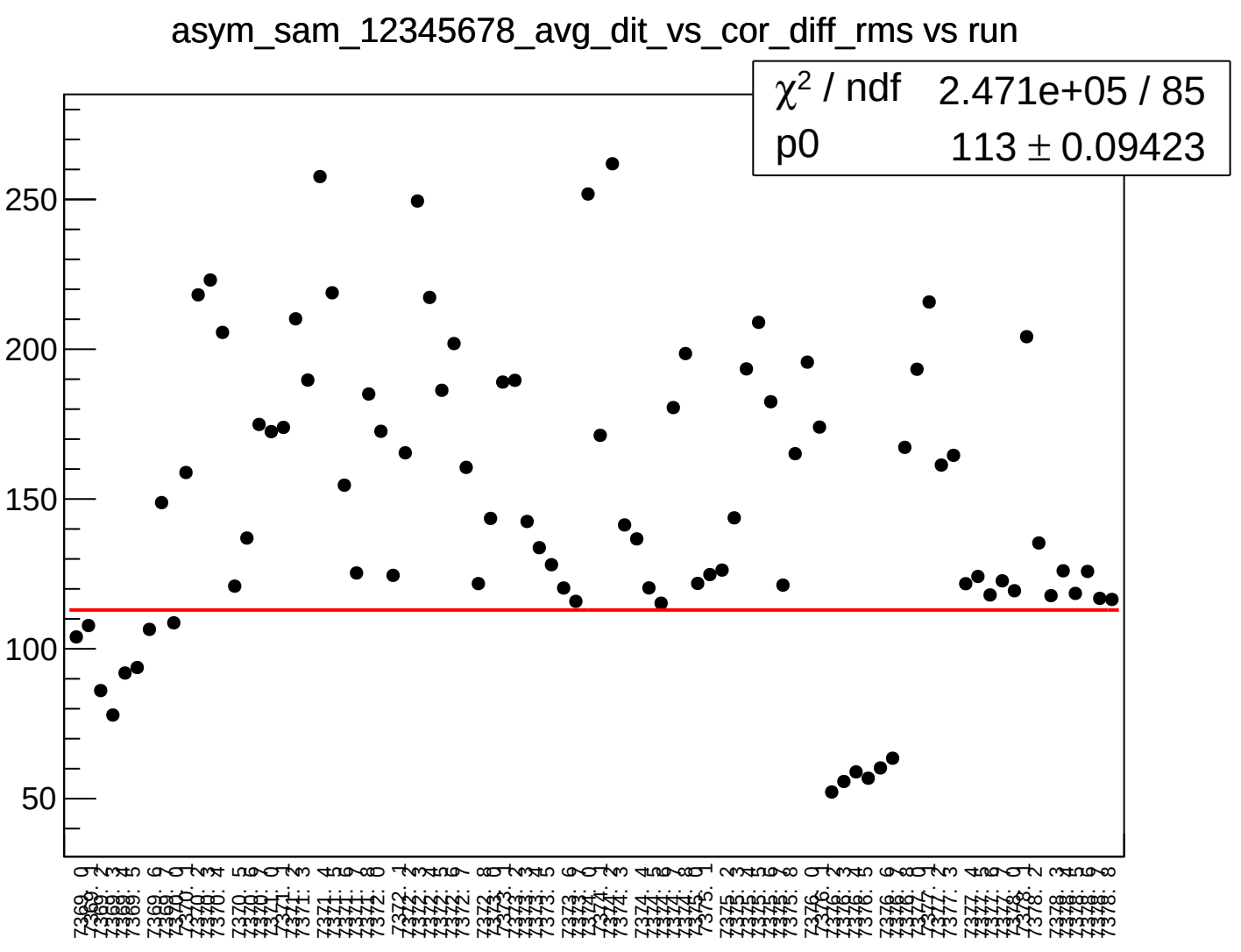

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.87 / 85
p0 2.77e−14 ± 2.145e−14
pull
Entries 86
Mean −23.04
Std Dev 0

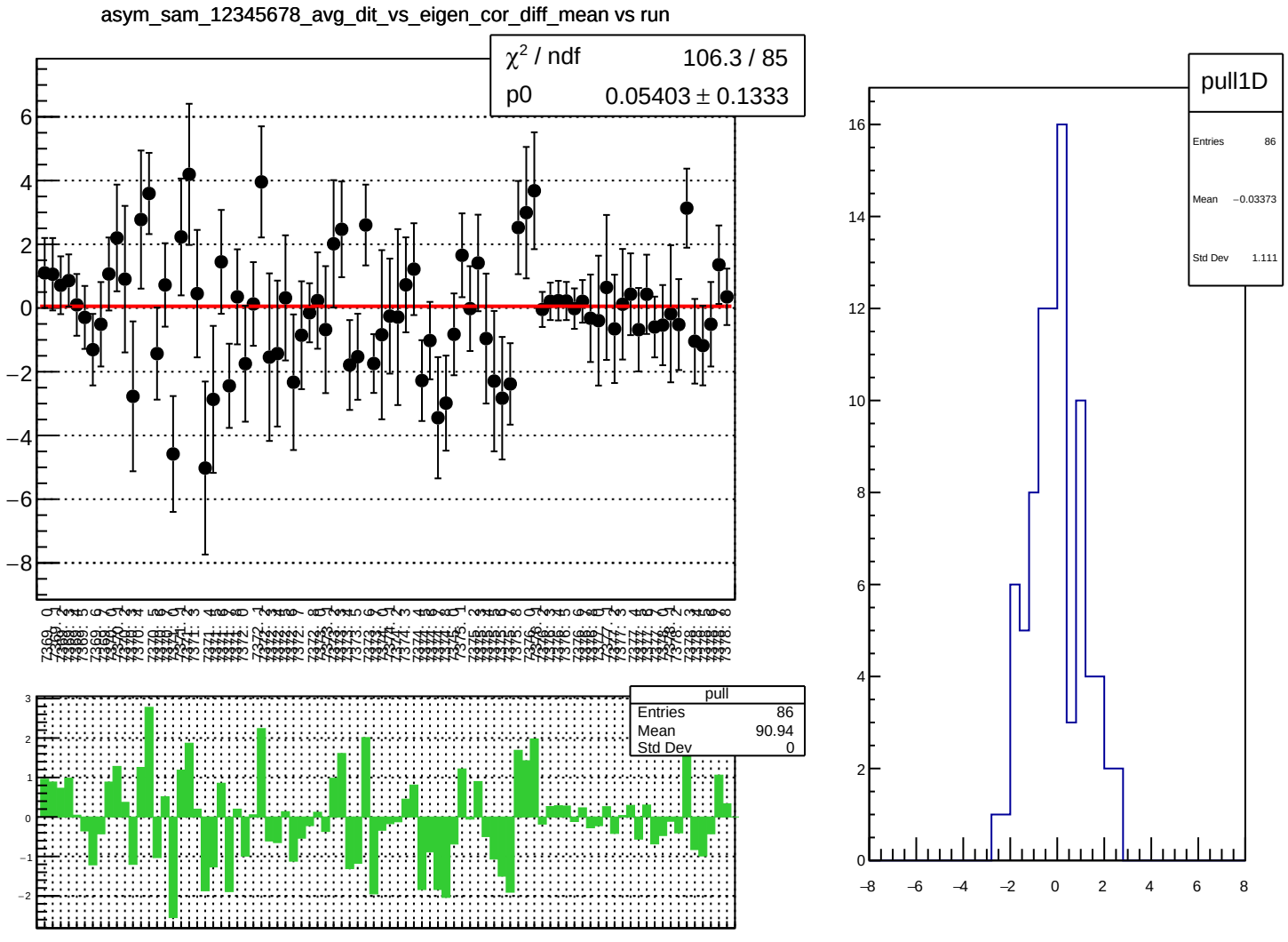

pull1D
Entries 86
Mean −0.07591
Std Dev 1.008

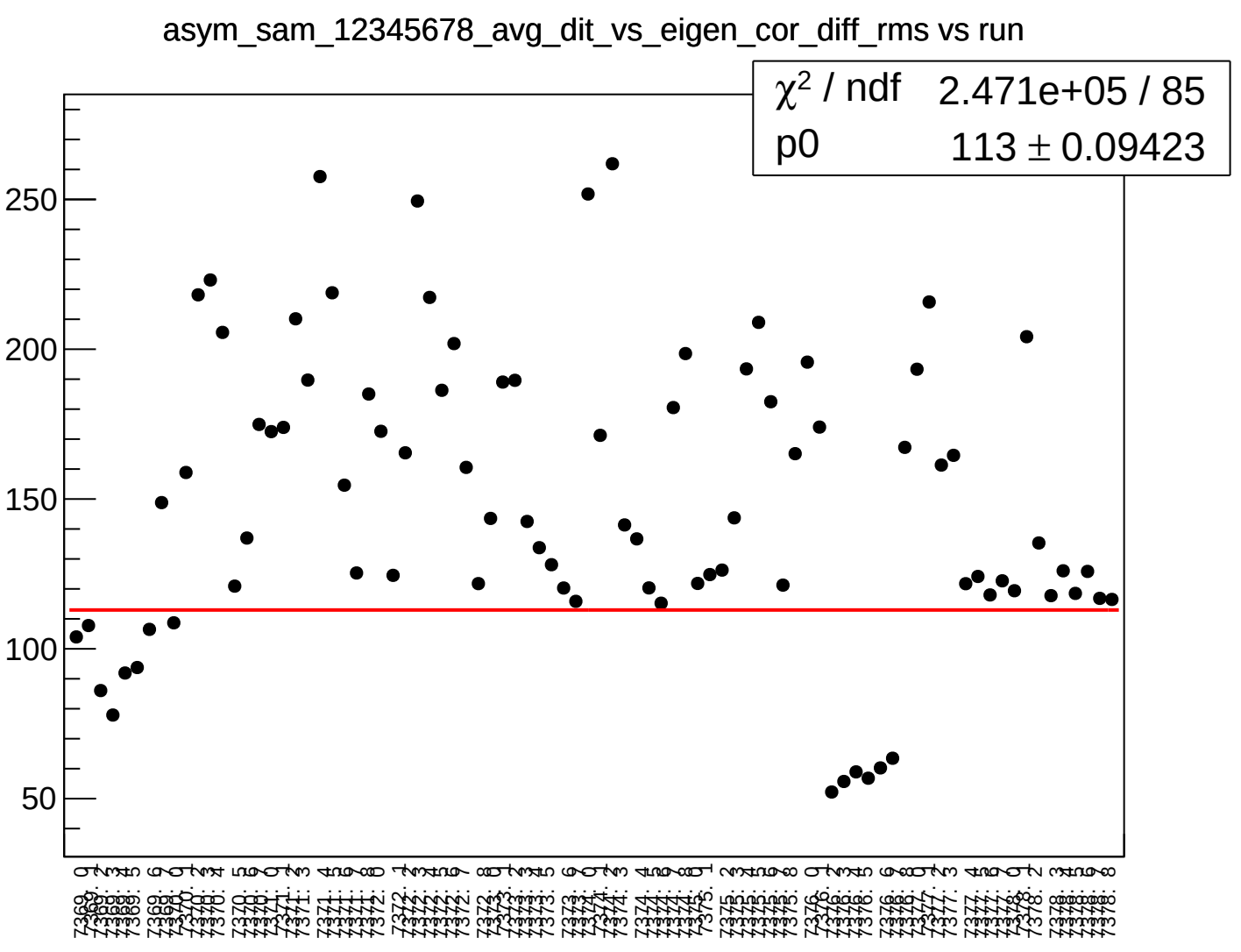

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.419e+06 / 85
p0 7.814e−12 ± 1.517e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

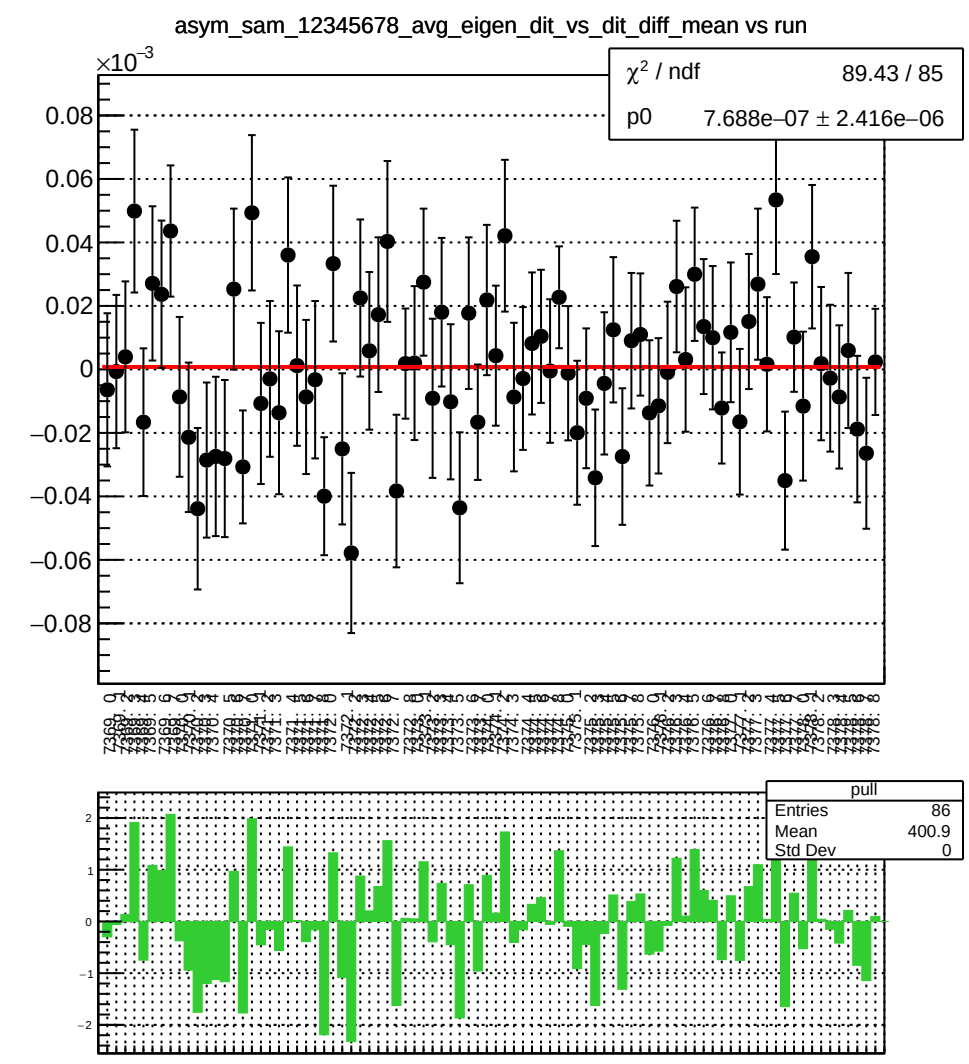

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 85
p0 0.05403 ± 0.1333
pull
Entries 86
Mean 90.94
Std Dev 0

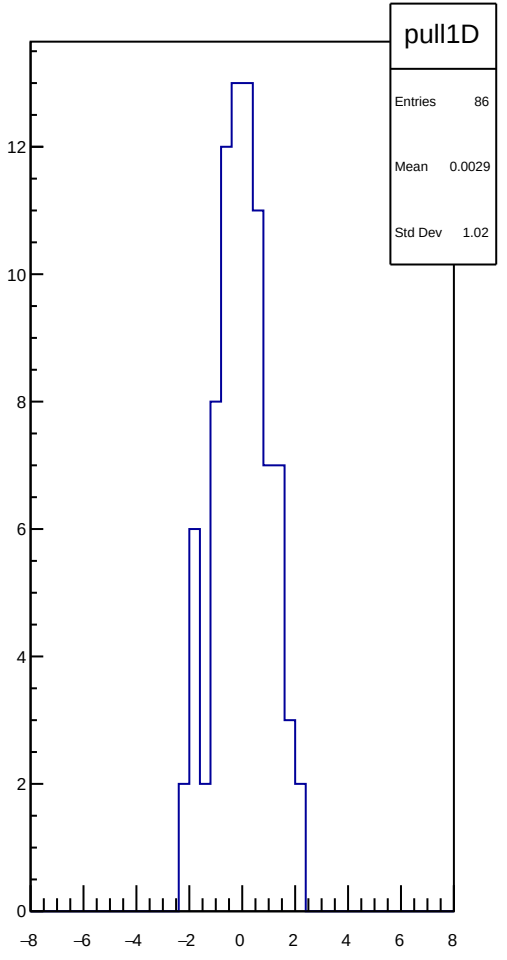

pull1D
Entries 86
Mean −0.03373
Std Dev 1.111

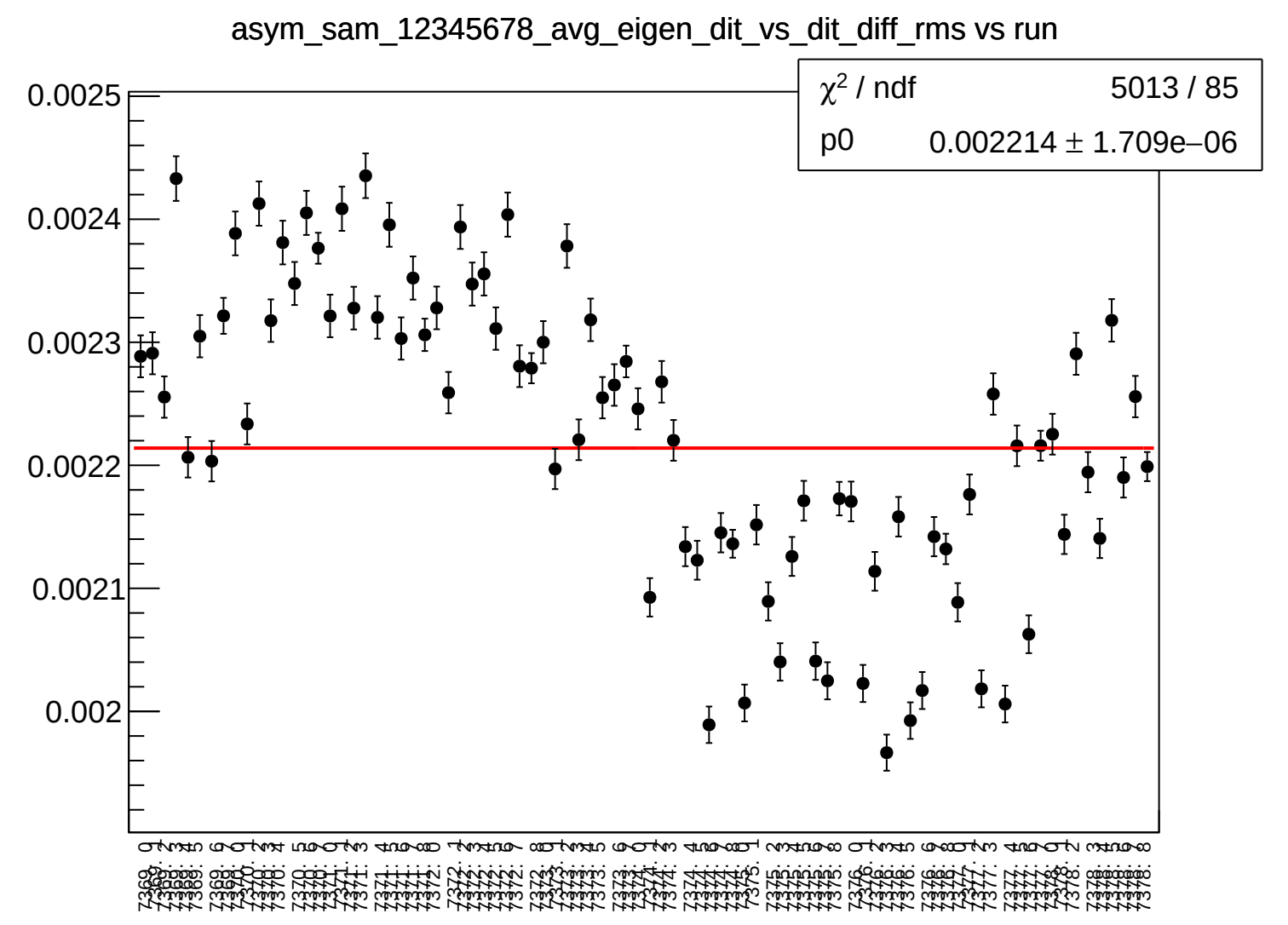

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.471e+05 / 85
p0 113 ± 0.09423
250
200
150
100
50

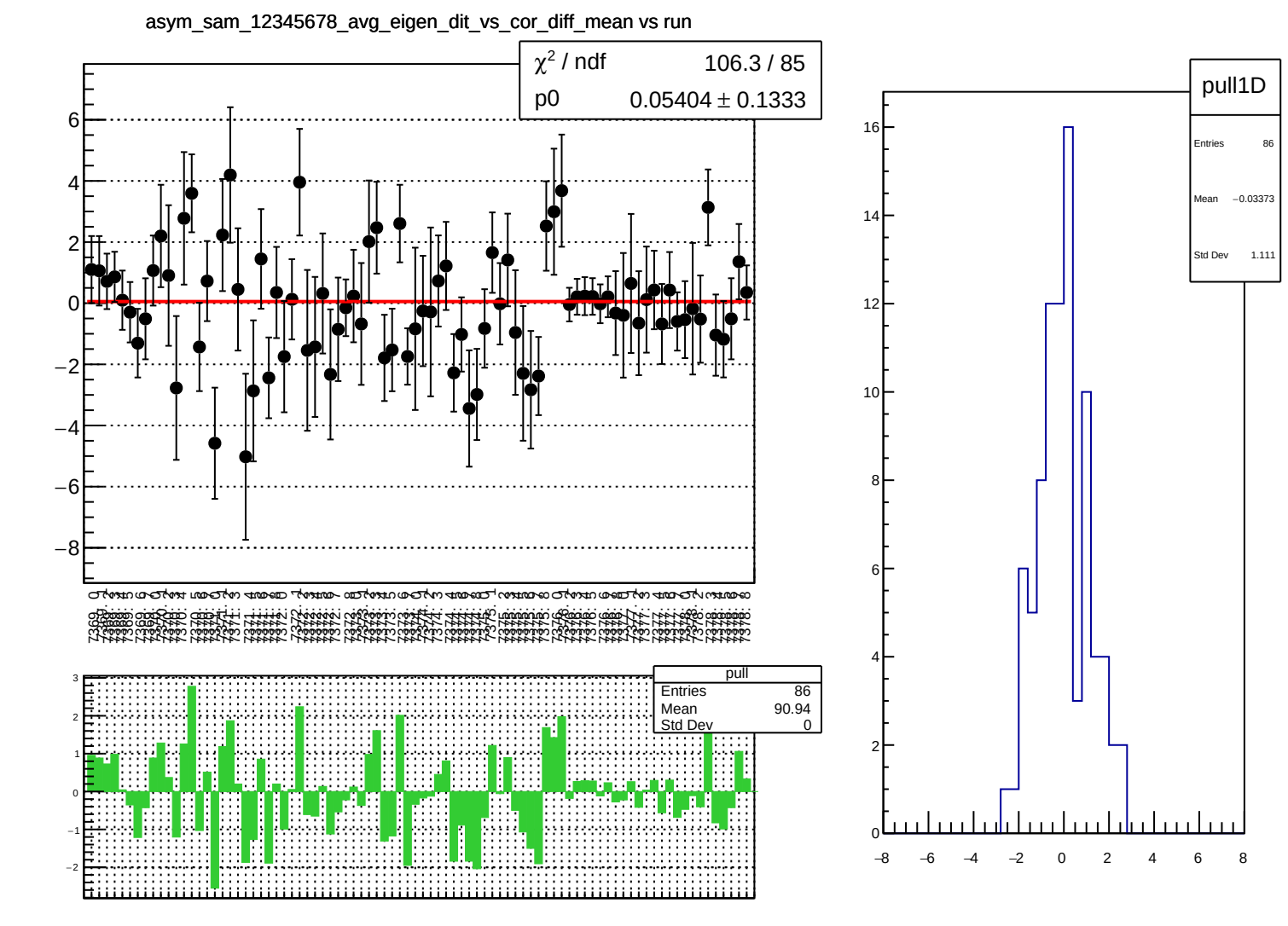

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 85
p0 0.05403 ± 0.1333
pull
Entries 86
Mean 90.94
Std Dev 0
pull1D
Entries 86
Mean −0.03373
Std Dev 1.111

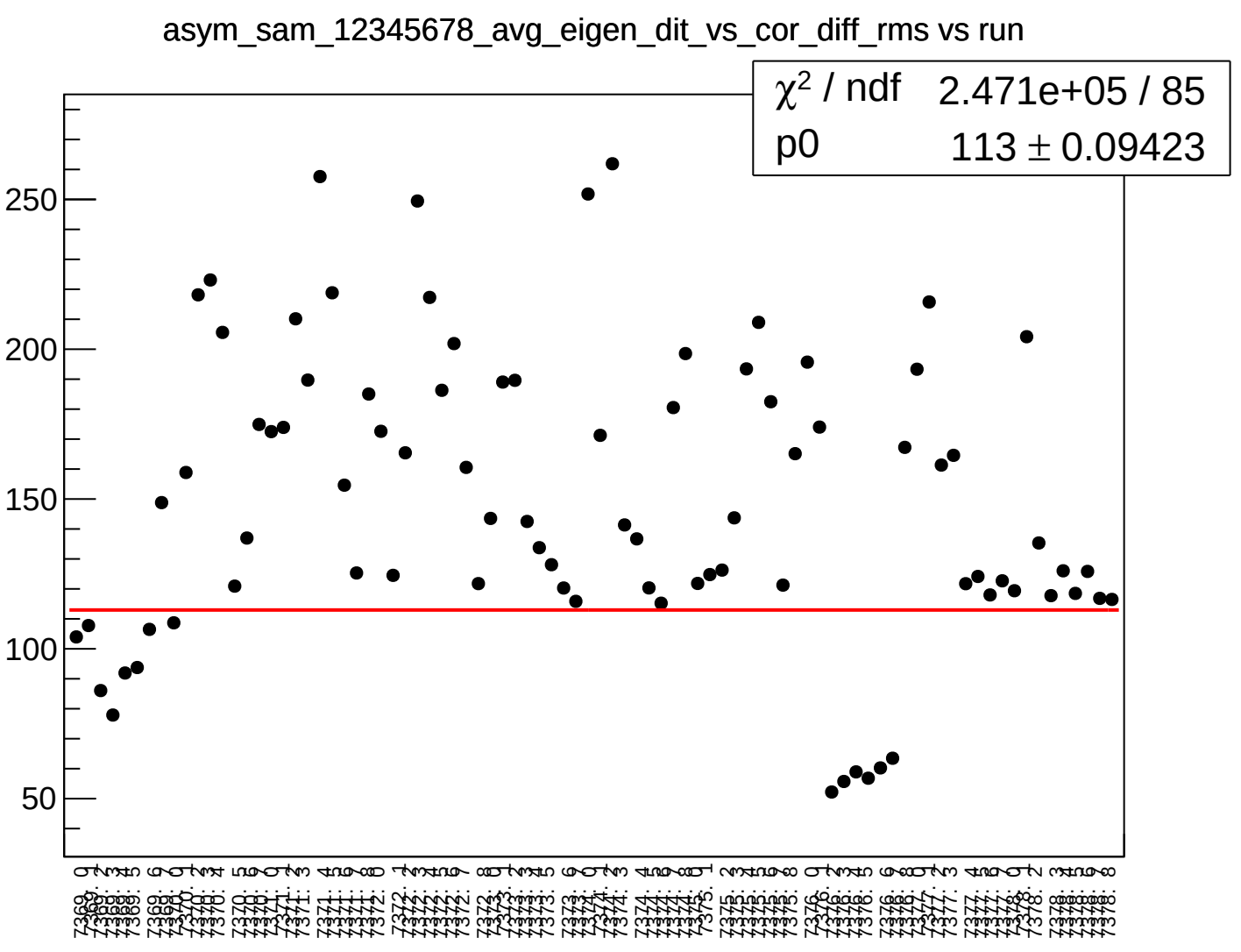

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.471e+05 / 85
p0 113 ± 0.09423
250
200
150
100
50

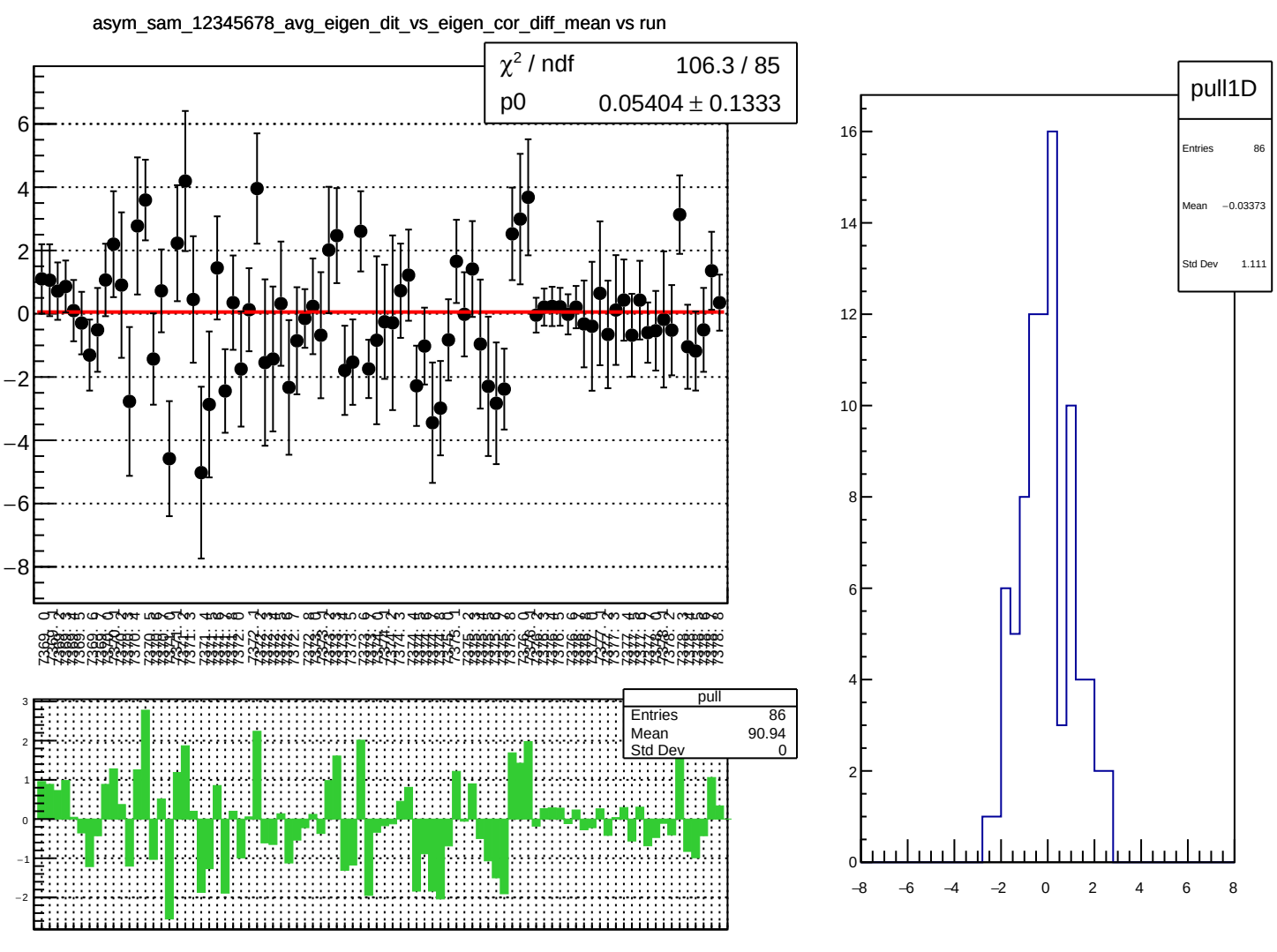

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.43 / 85
p0 7.688e−07 ± 2.416e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean 400.9
Std Dev 0
2
1
0
−1
−2

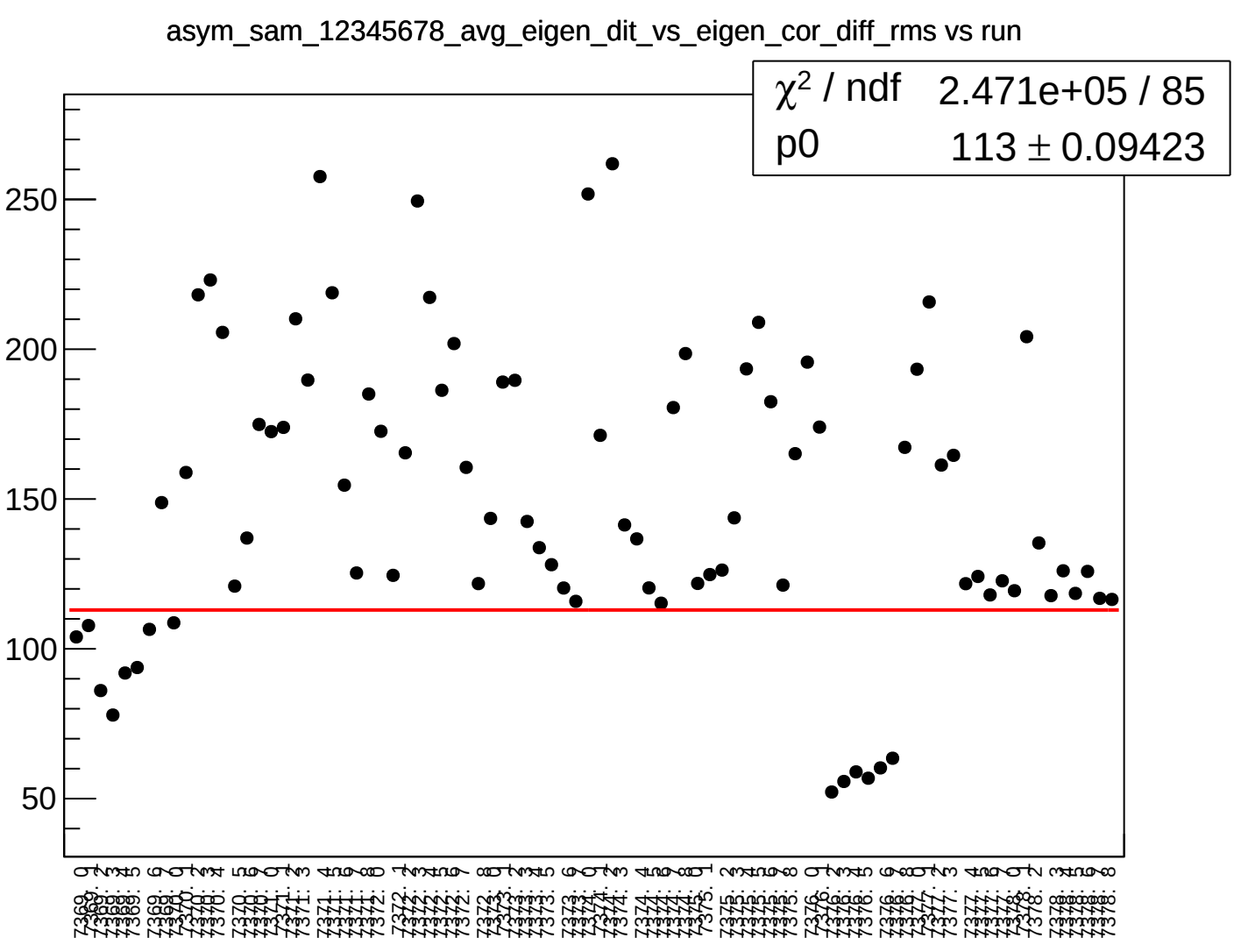

pull1D
Entries 86
Mean 0.0029
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

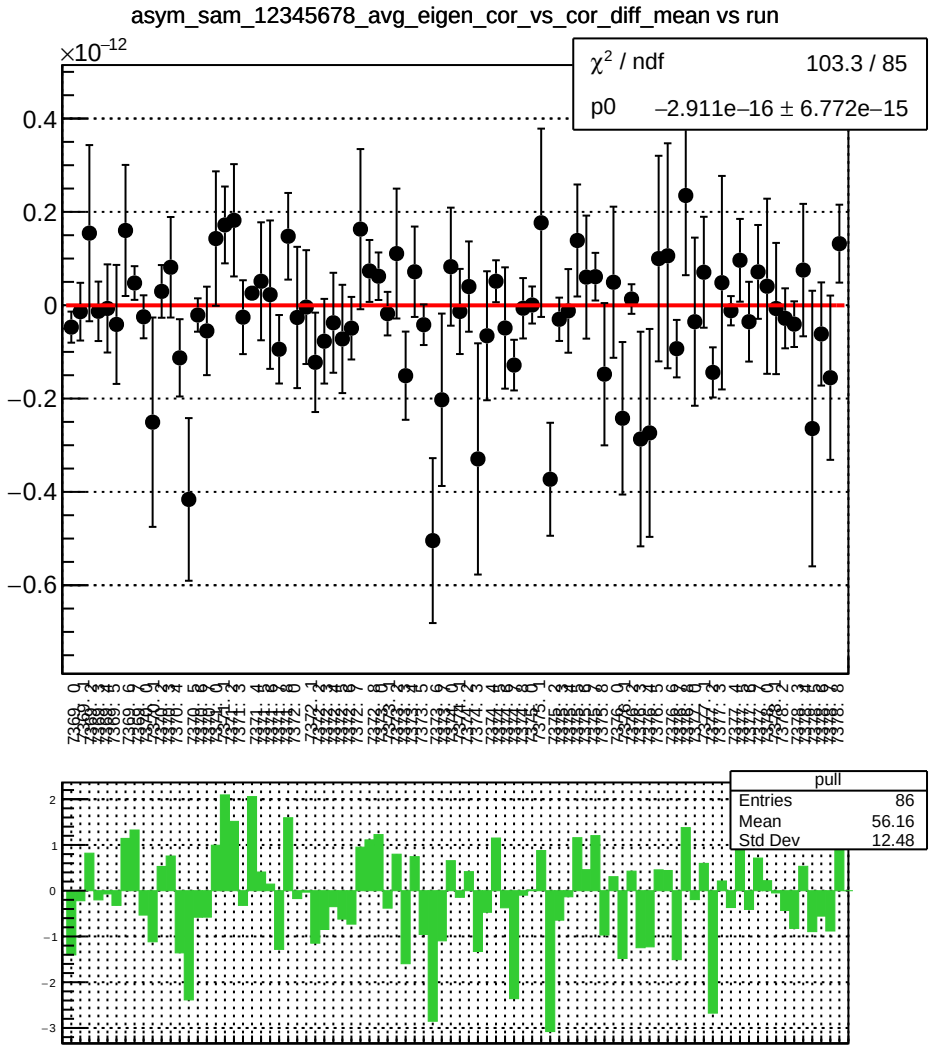

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5013 / 85
p0 0.002214 ± 1.709e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

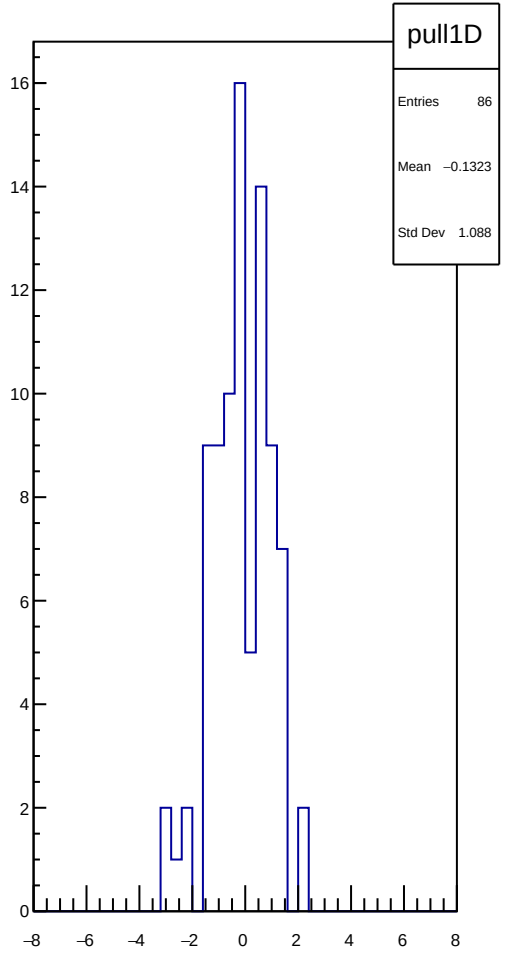

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 85
p0 0.05404 ± 0.1333
pull
Entries 86
Mean 90.94
Std Dev 0
pull1D
Entries 86
Mean −0.03373
Std Dev 1.111

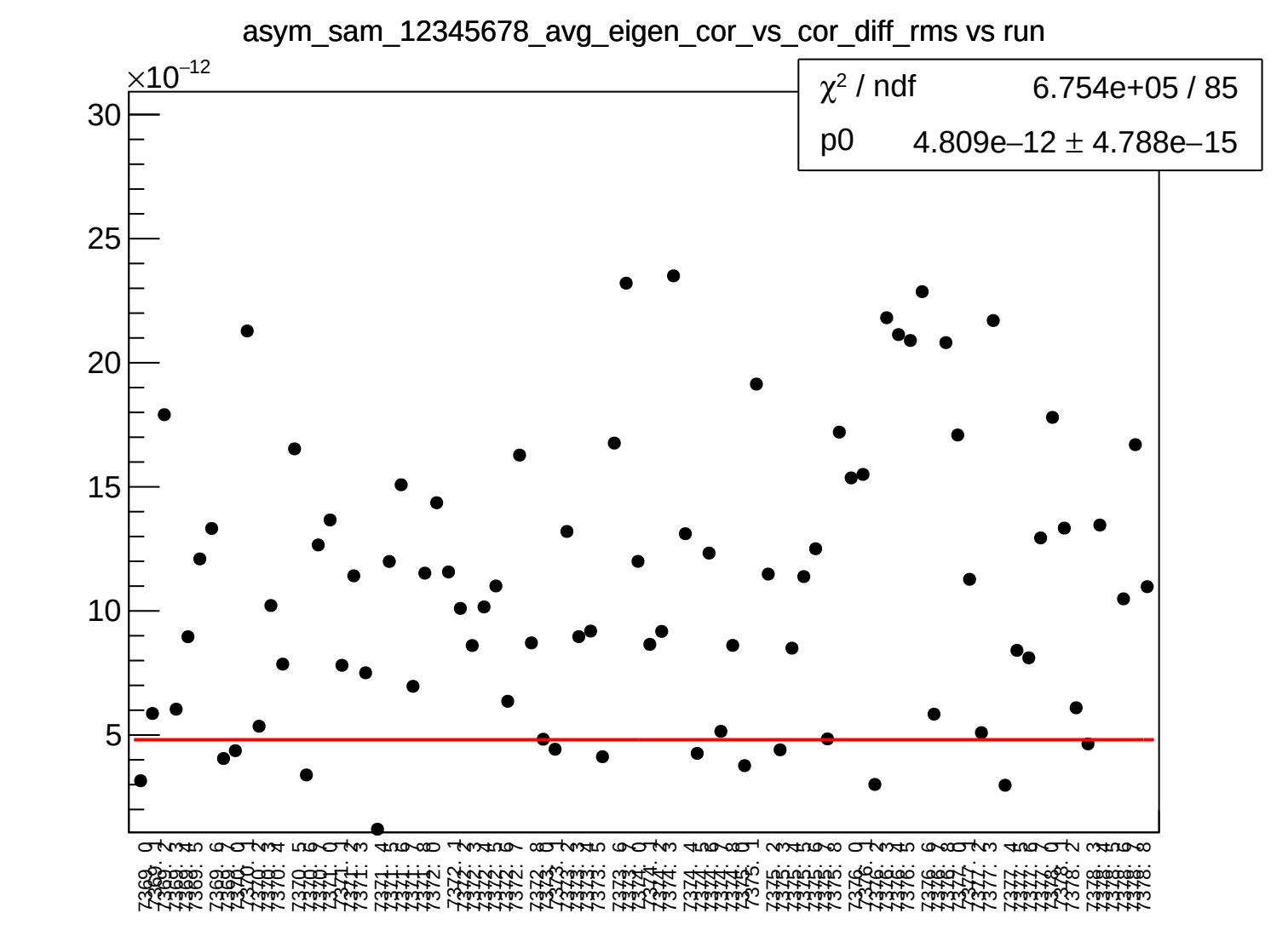

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.471e+05 / 85
p0 113 ± 0.09423
250
200
150
100
50

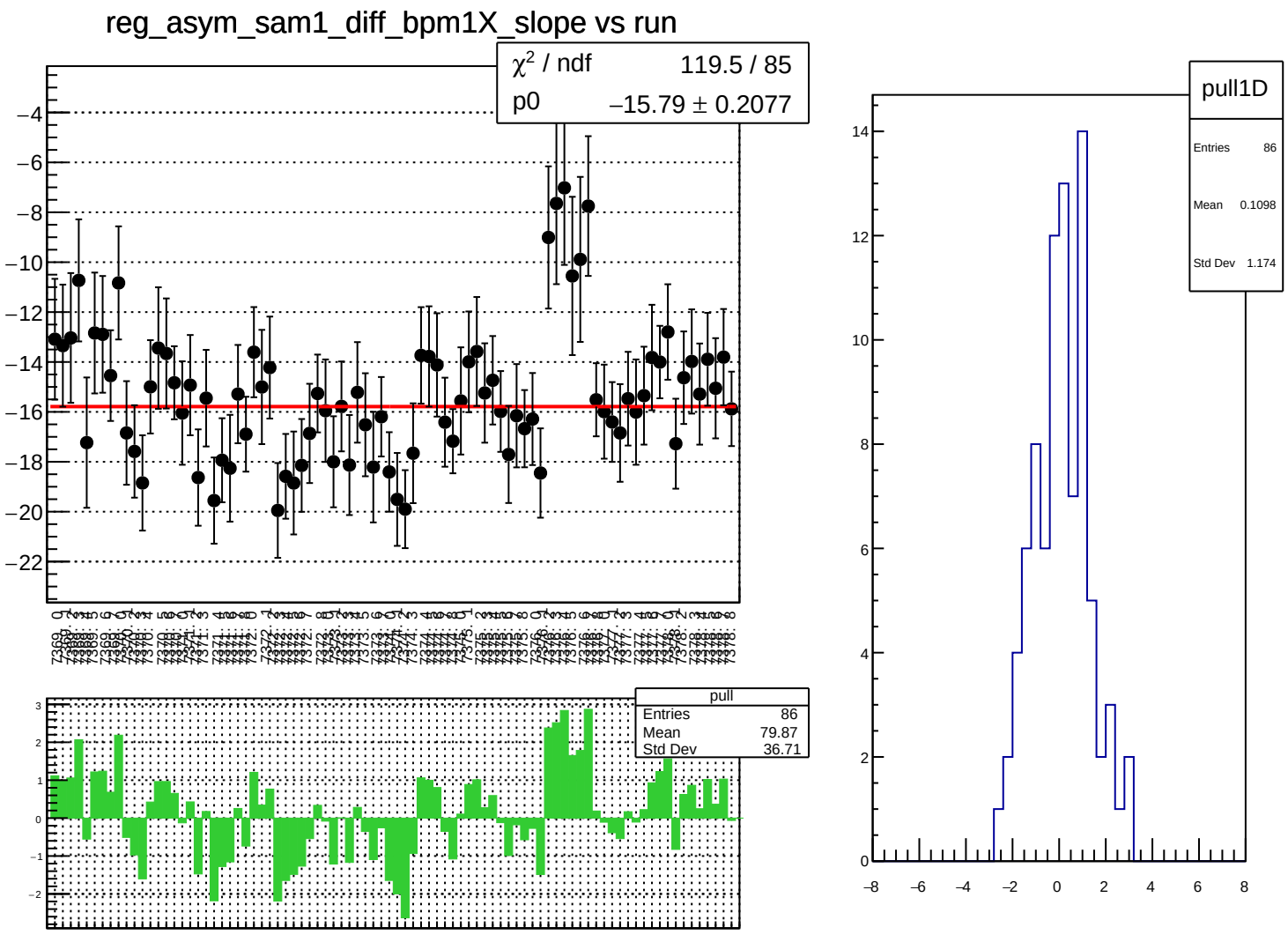

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 85
p0 0.05404 ± 0.1333
pull
Entries 86
Mean 90.94
Std Dev 0
pull1D
Entries 86
Mean −0.03373
Std Dev 1.111

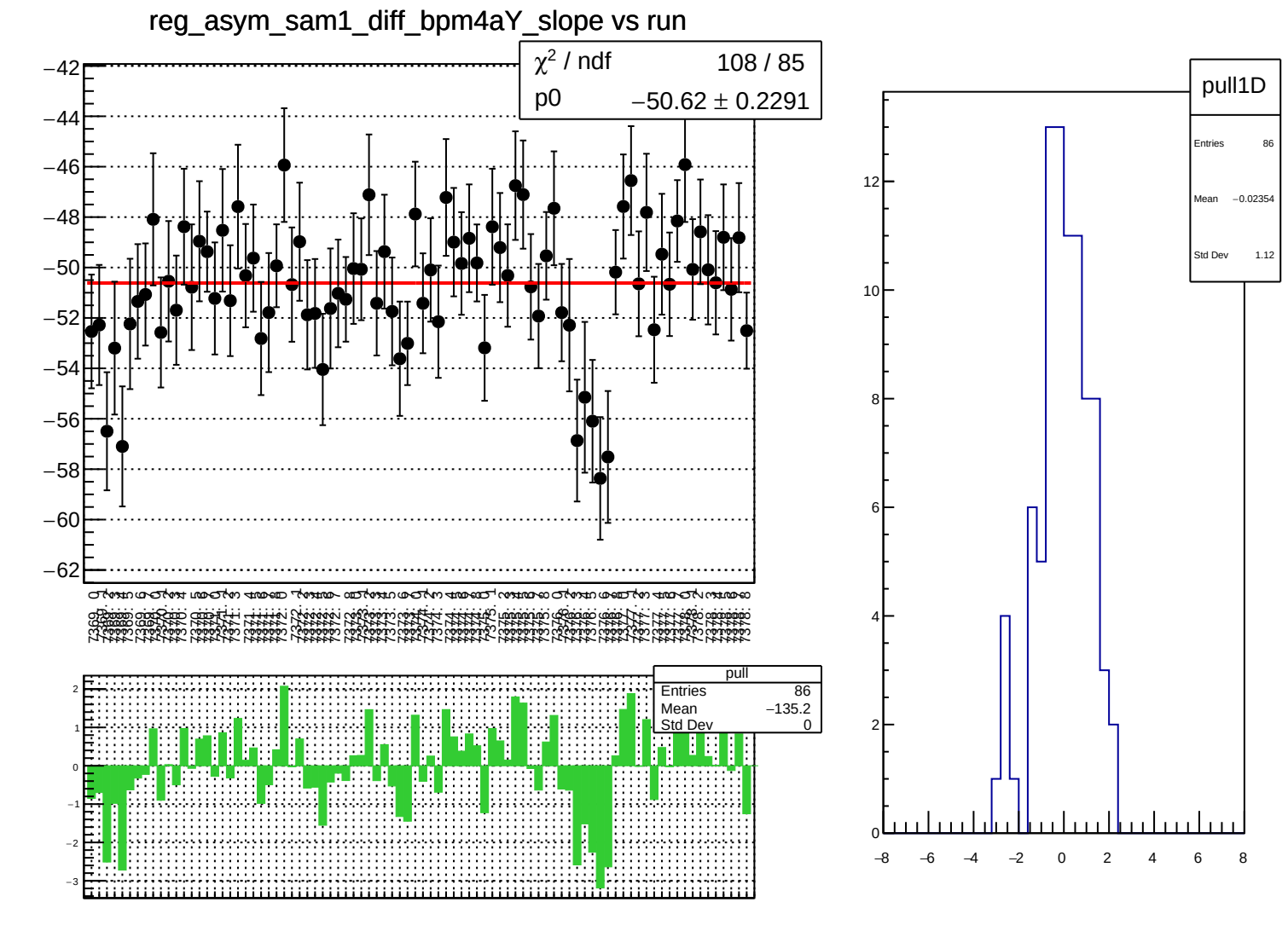

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.471e+05 / 85
p0 113 ± 0.09423
250
200
150
100
50

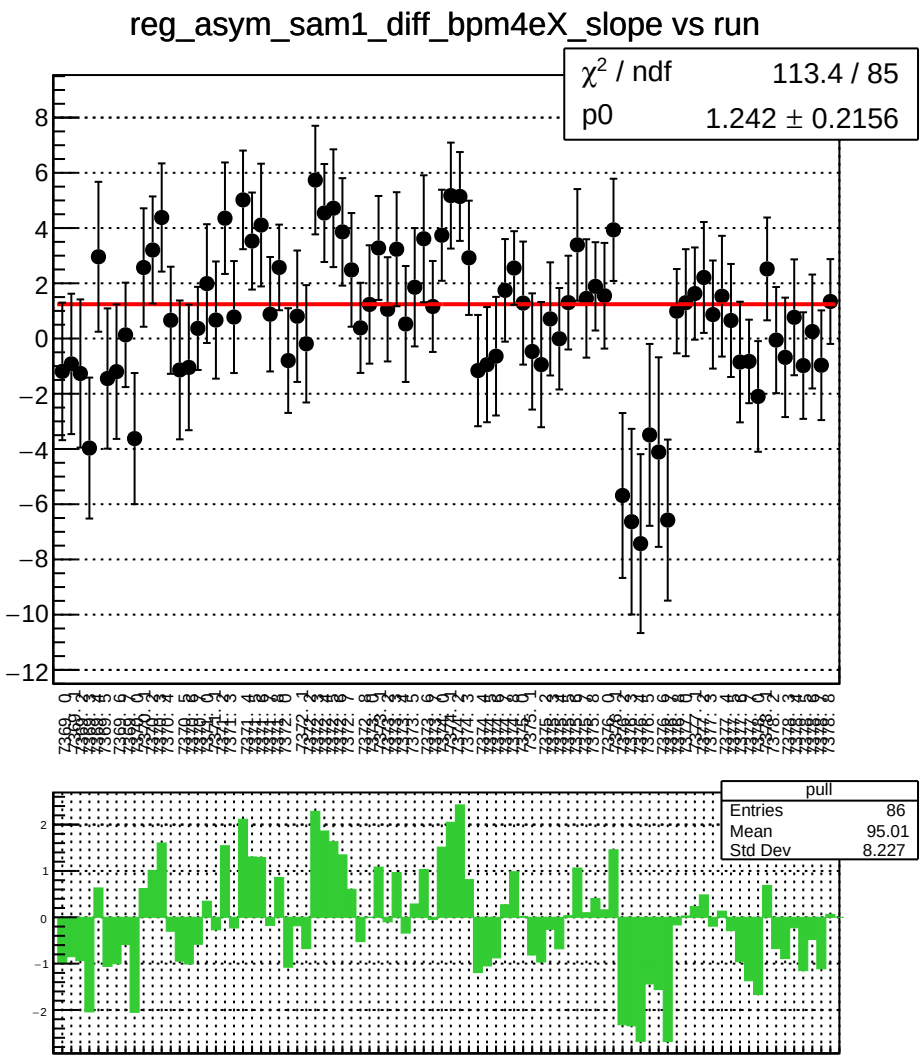

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.3 / 85
p0 −2.911e−16 ± 6.772e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 86
Mean 56.16
Std Dev 12.48
2
1
0
−1
−2
−3

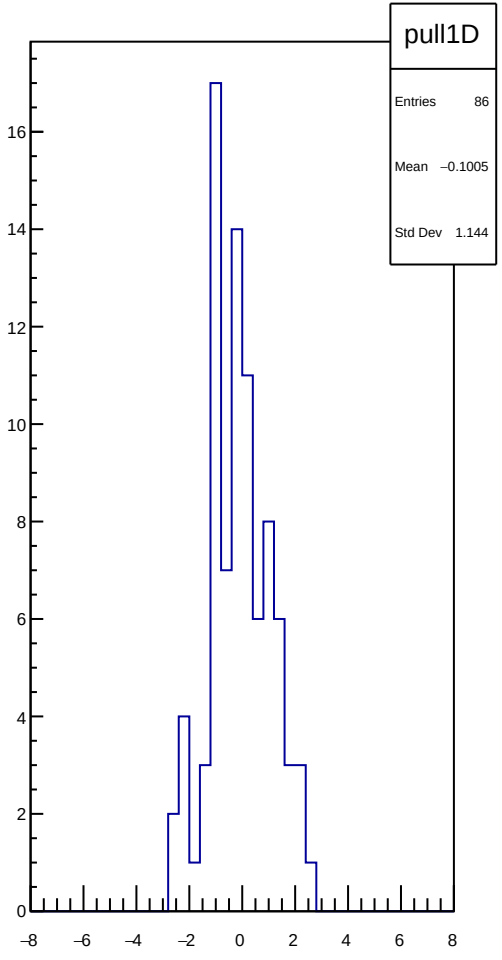

pull1D
Entries 86
Mean −0.1323
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

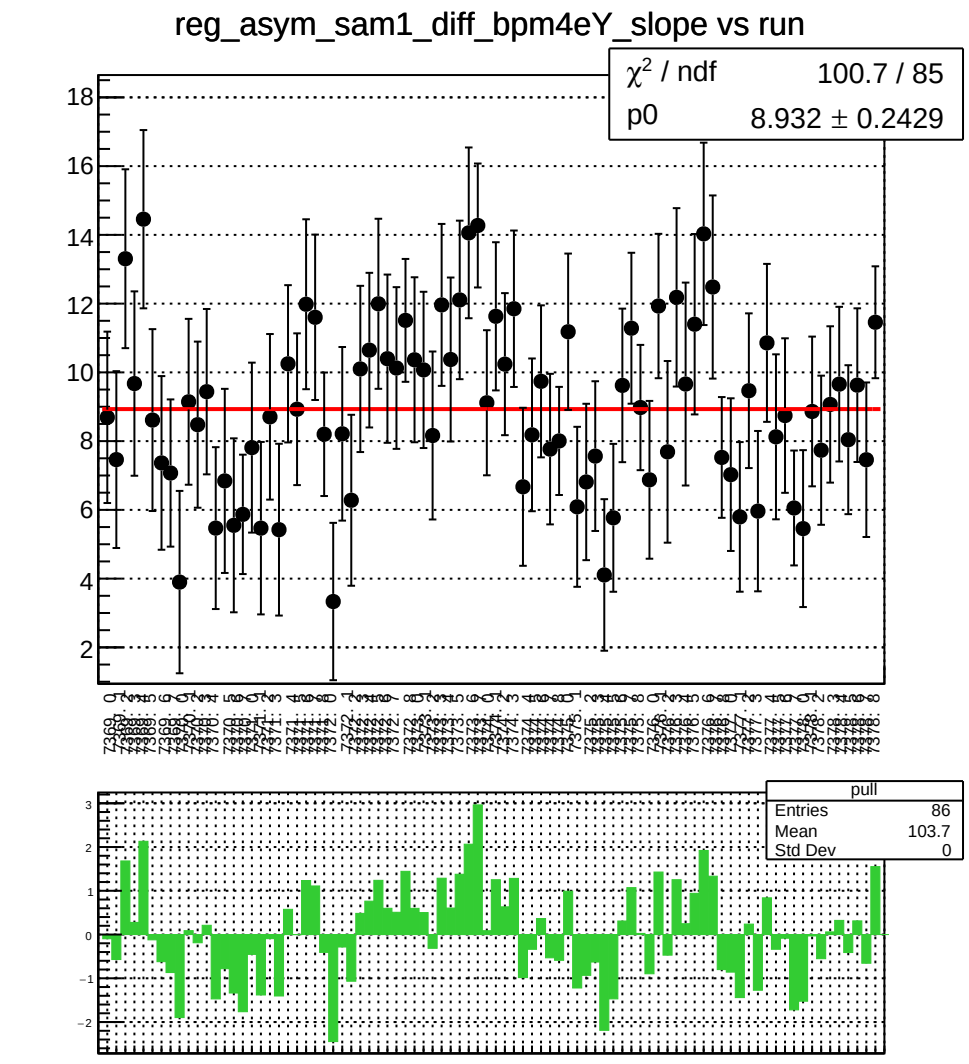

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.754e+05 / 85
p0 4.809e−12 ± 4.788e−15
30
25
20
15
10
5

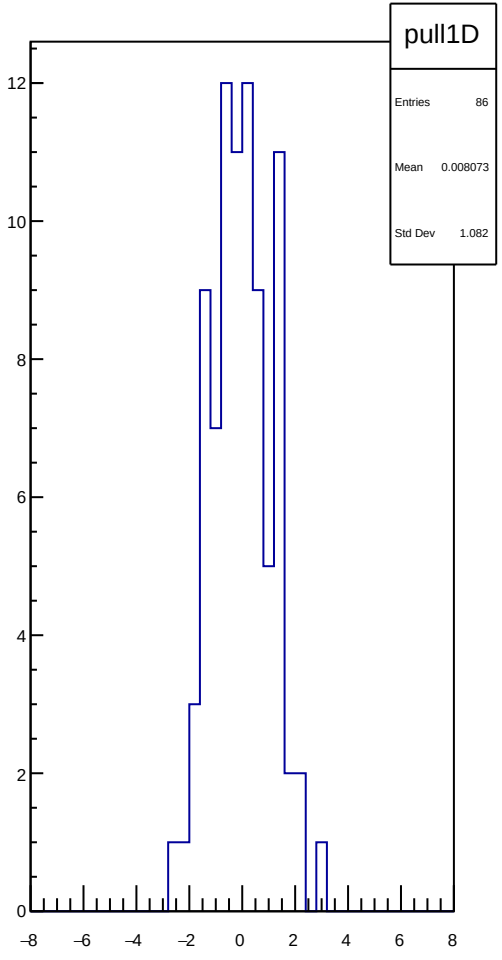

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 119.5 / 85
p0 −15.79 ± 0.2077
pull
Entries 86
Mean 79.87
Std Dev 36.71
pull1D
Entries 86
Mean 0.1098
Std Dev 1.174

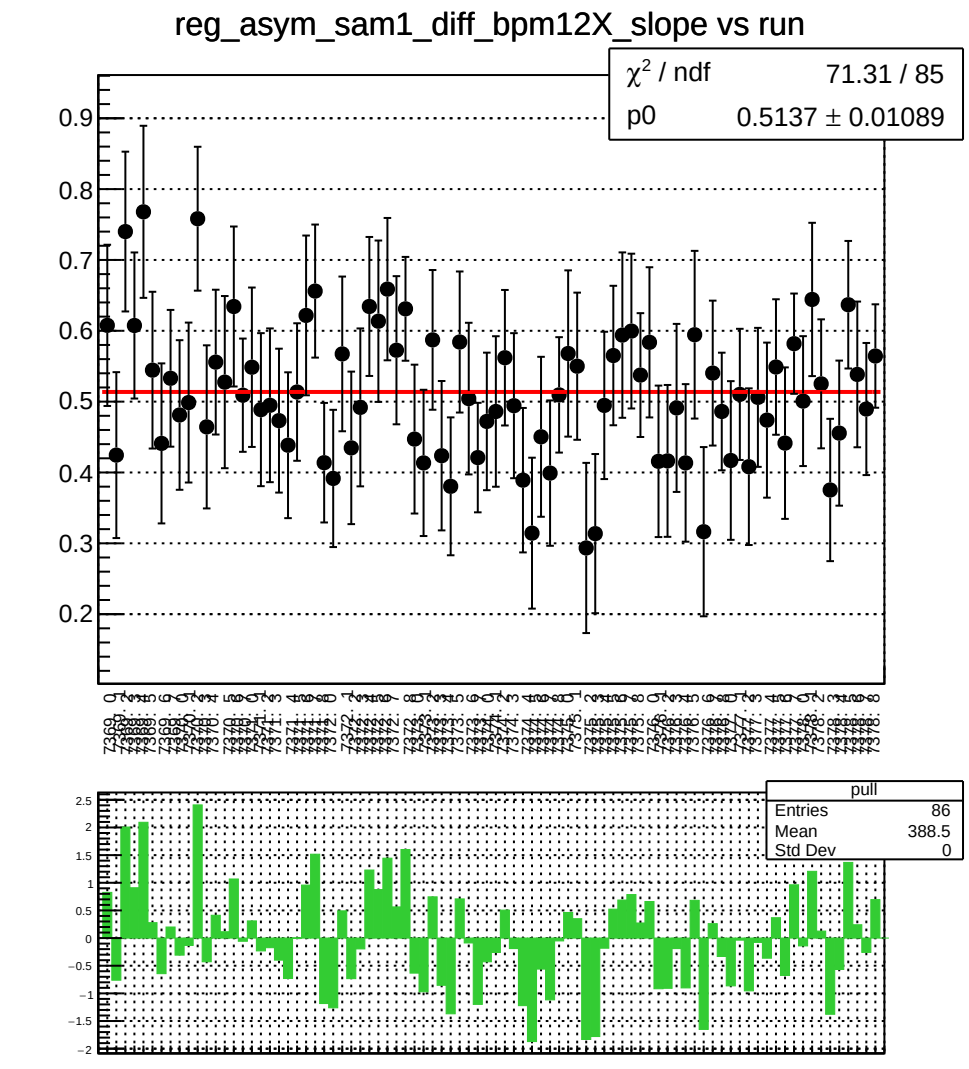

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 108 / 85
p0 −50.62 ± 0.2291
pull
Entries 86
Mean −135.2
Std Dev 0
pull1D
Entries 86
Mean −0.02354
Std Dev 1.12

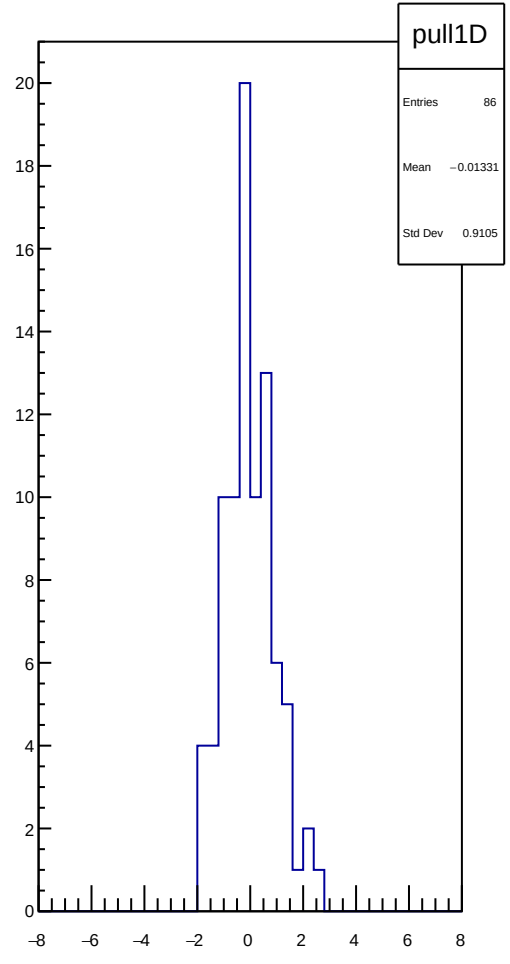

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 113.4 / 85
p0 1.242 ± 0.2156
pull
Entries 86
Mean 95.01
Std Dev 8.227

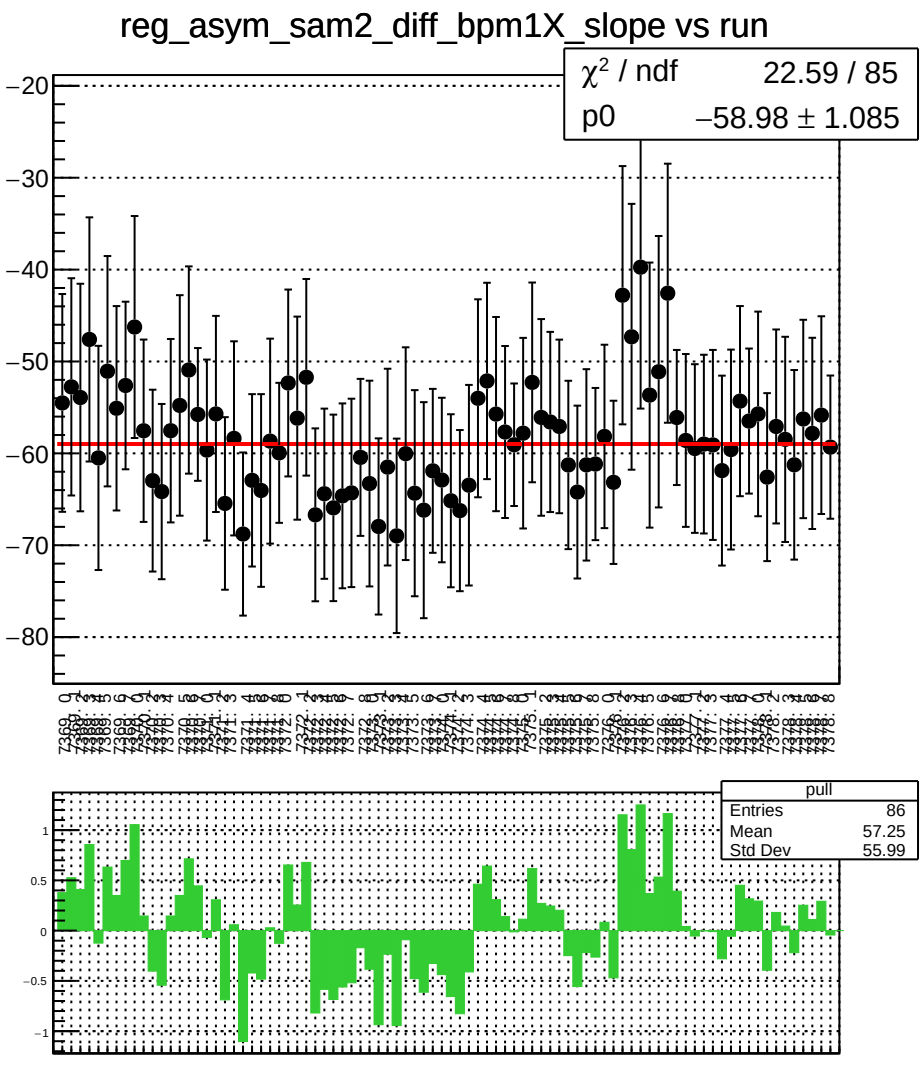

pull1D
Entries 86
Mean −0.1005
Std Dev 1.144

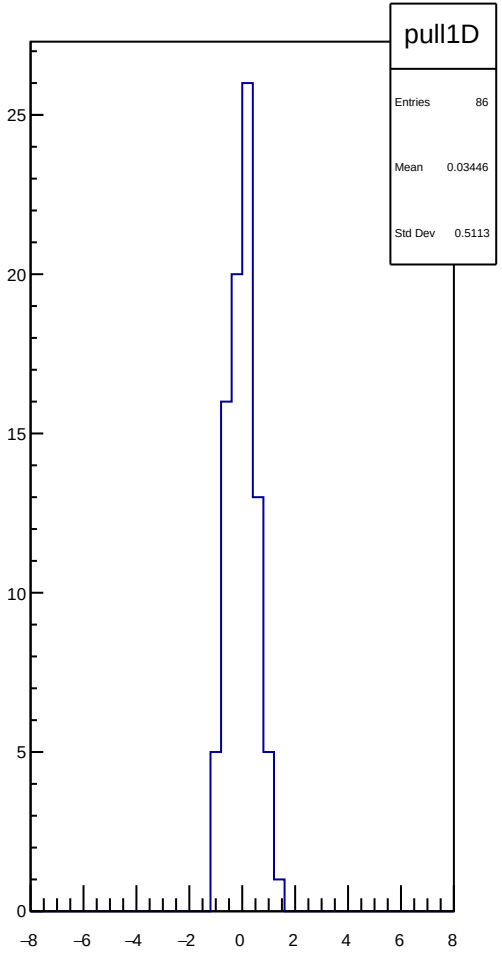

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 100.7 / 85
p0 8.932 ± 0.2429
pull
Entries 86
Mean 103.7
Std Dev 0

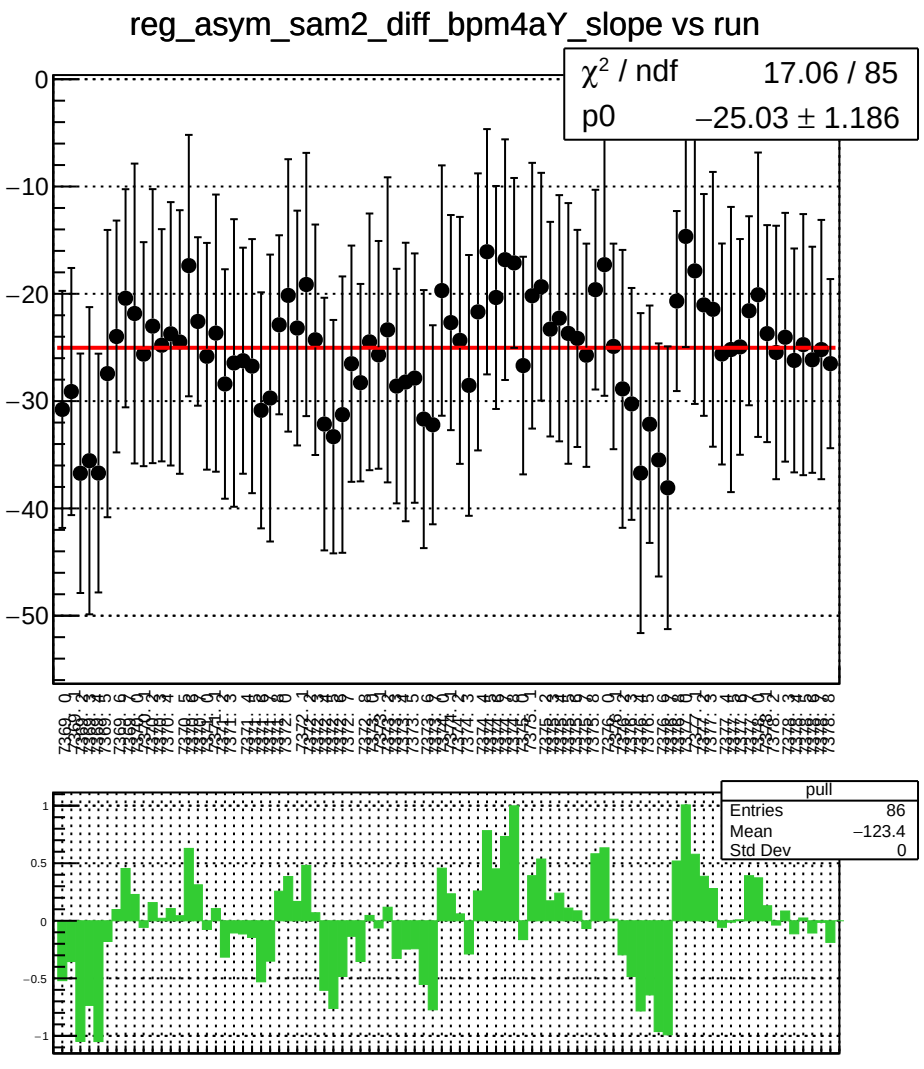

pull1D
Entries 86
Mean 0.008073
Std Dev 1.082

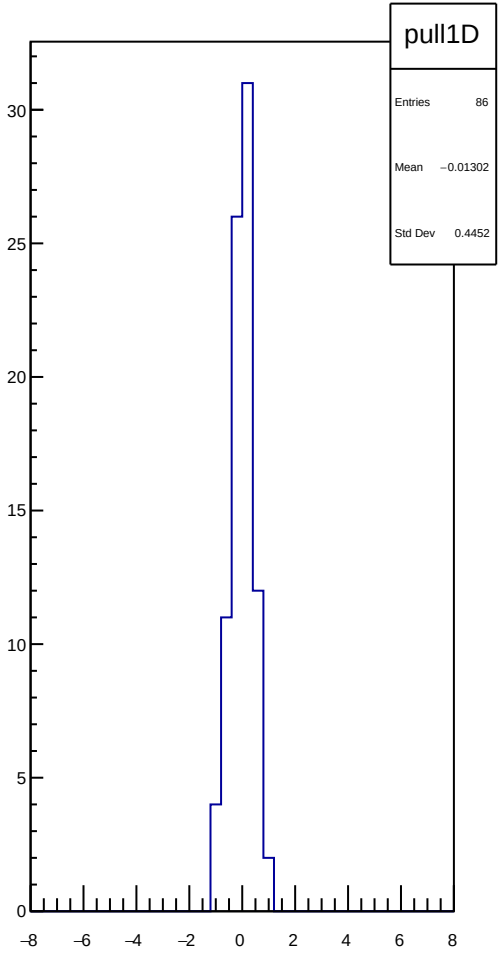

reg_asym_sam1_diff_bpm12X_slope vs run
χ^2 / ndf 71.31 / 85
p0 0.5137 ± 0.01089
pull
Entries 86
Mean 388.5
Std Dev 0

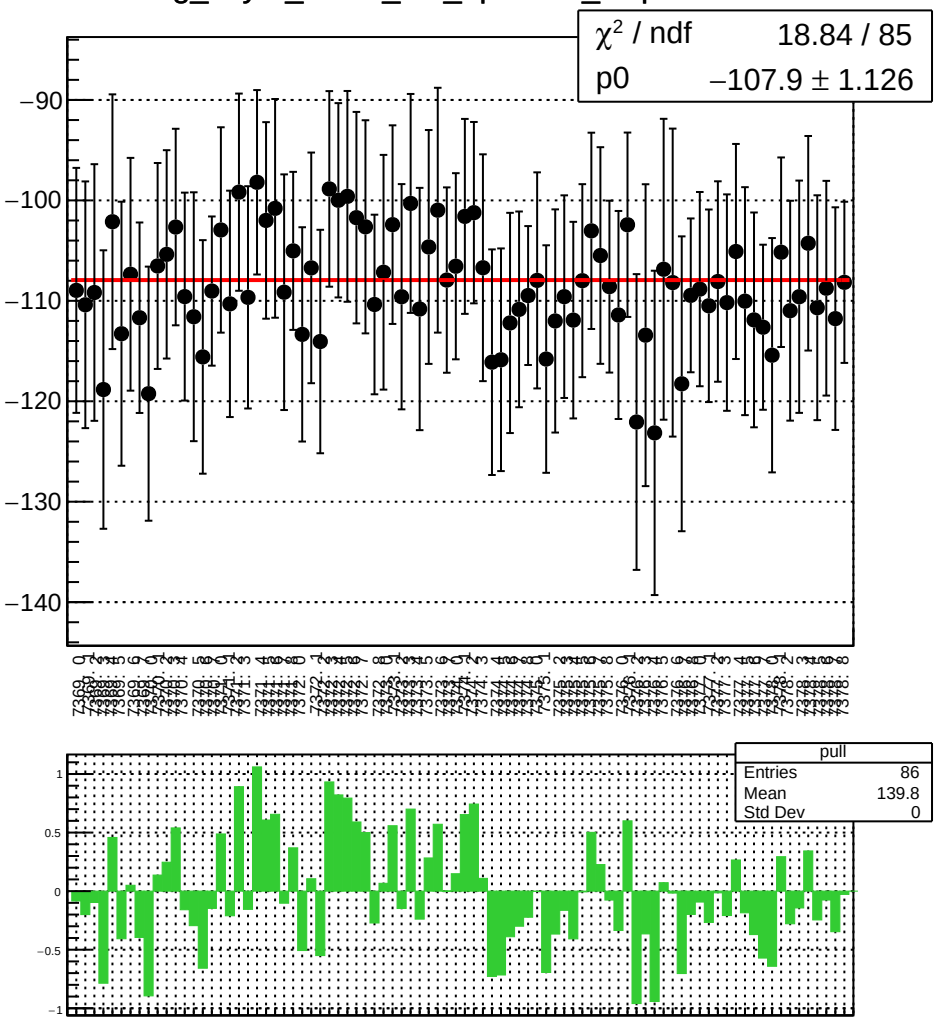

pull1D
Entries 86
Mean −0.01331
Std Dev 0.9105

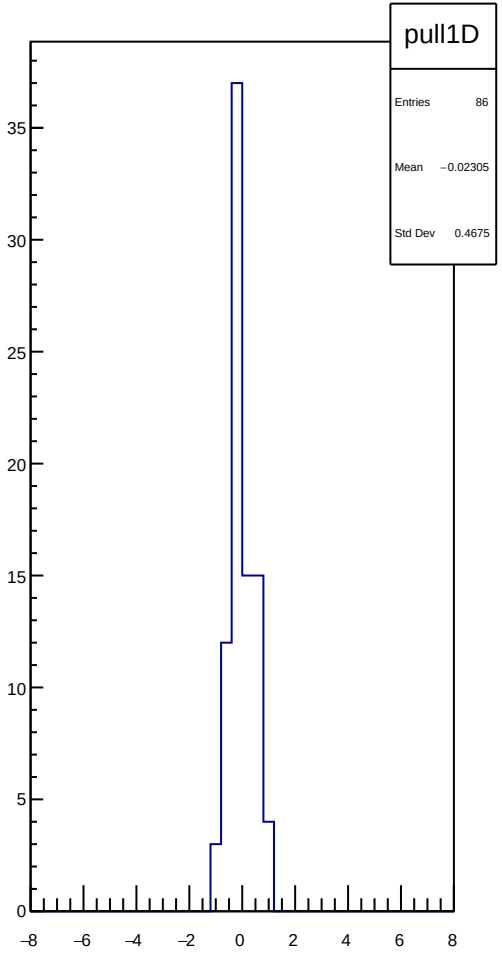

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 22.59 / 85
p0 −58.98 ± 1.085
pull
Entries 86
Mean 57.25
Std Dev 55.99

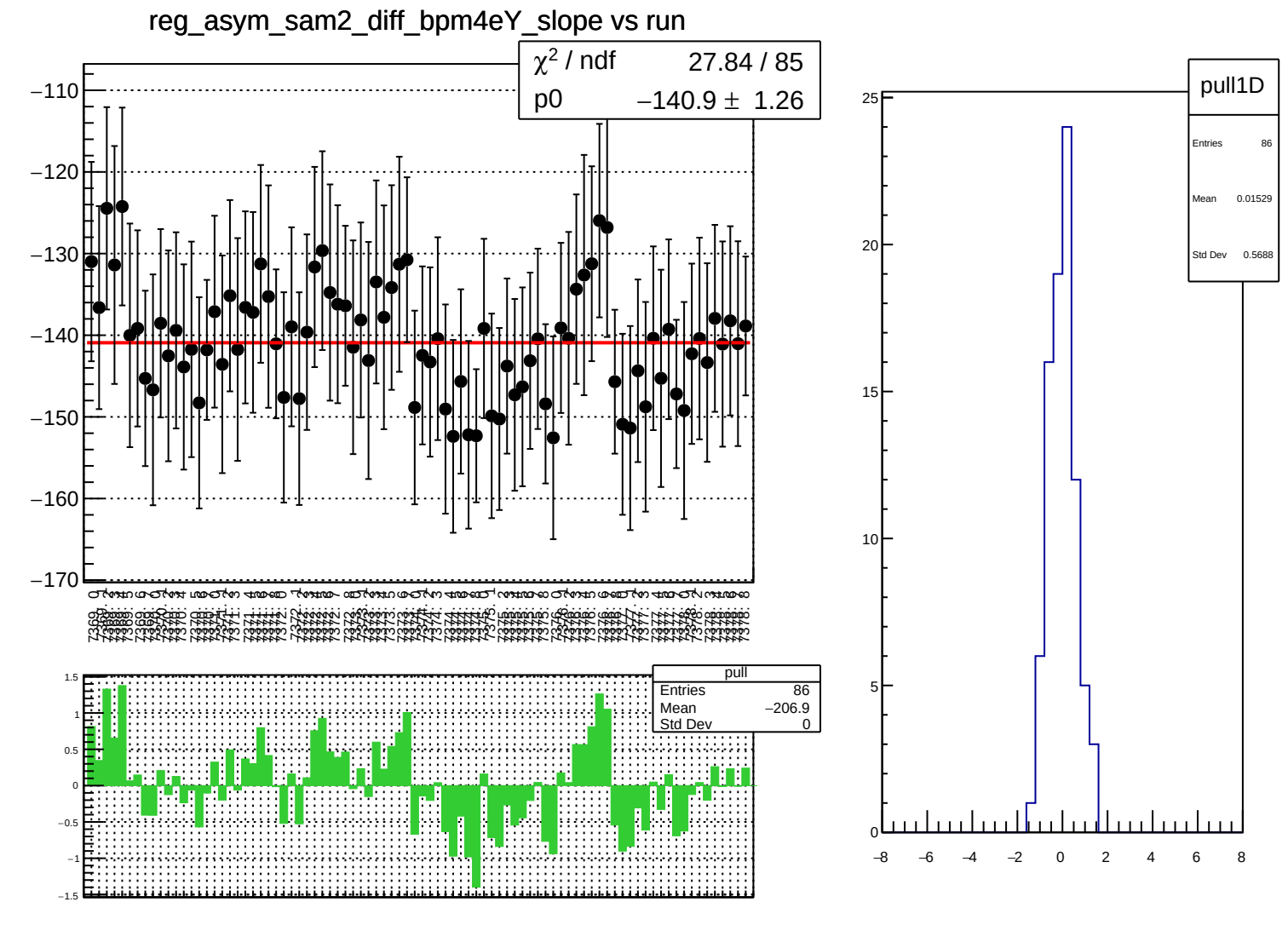

pull1D
Entries 86
Mean 0.03446
Std Dev 0.5113

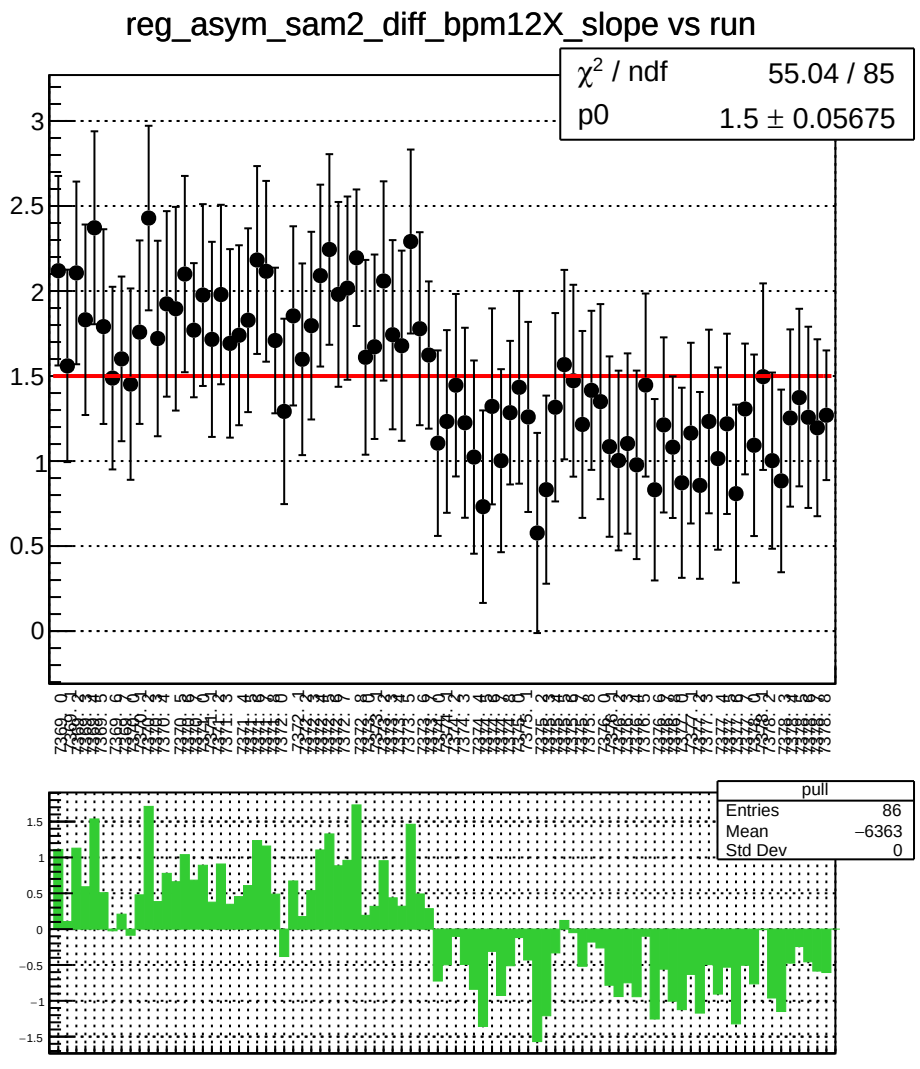

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 17.06 / 85
p0 −25.03 ± 1.186
pull
Entries 86
Mean −123.4
Std Dev 0

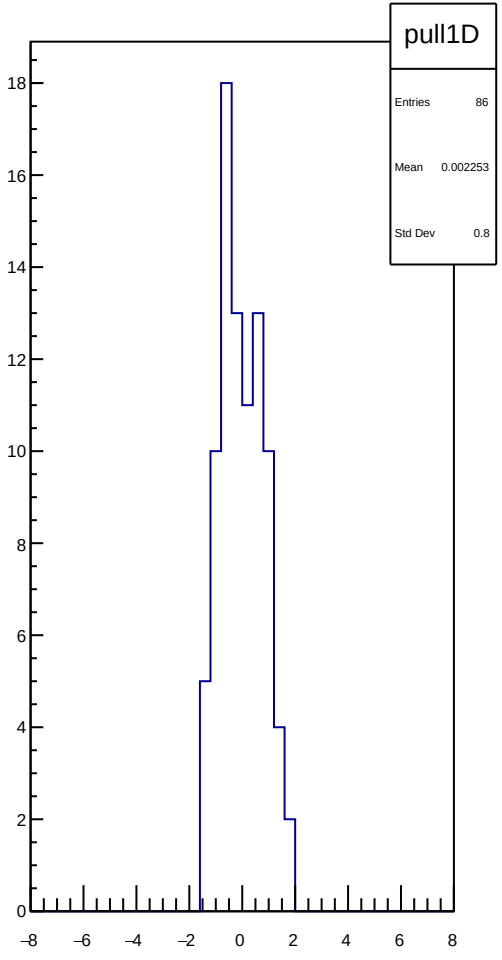

pull1D
Entries 86
Mean −0.01302
Std Dev 0.4452

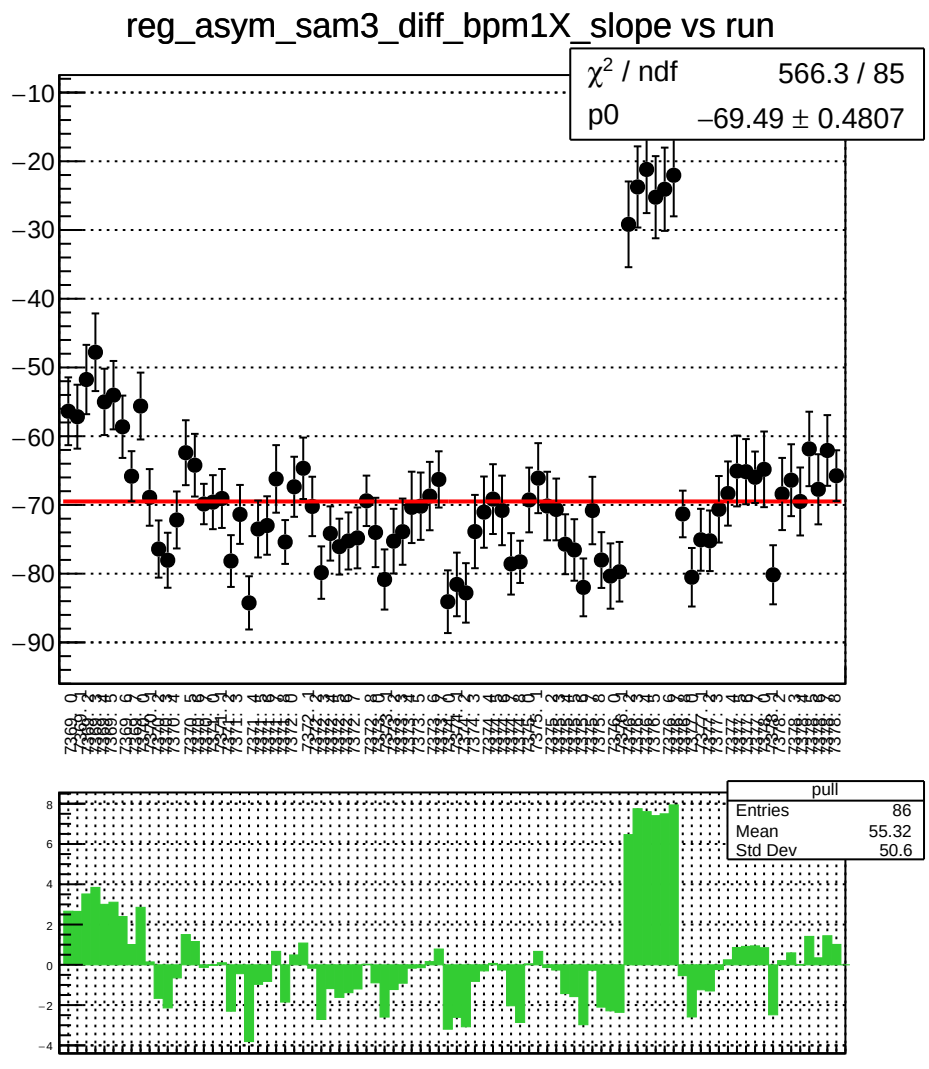

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 18.84 / 85
p0 −107.9 ± 1.126
pull
Entries 86
Mean 139.8
Std Dev 0

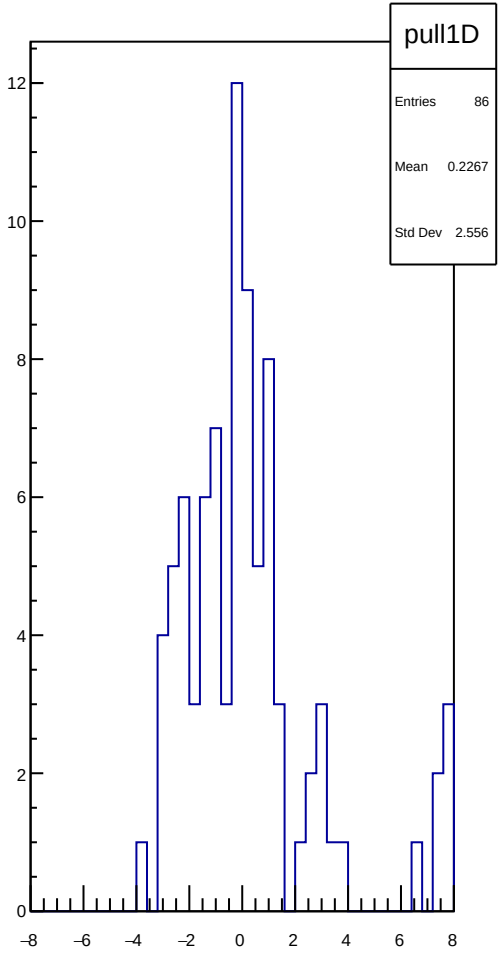

pull1D
Entries 86
Mean −0.02305
Std Dev 0.4675

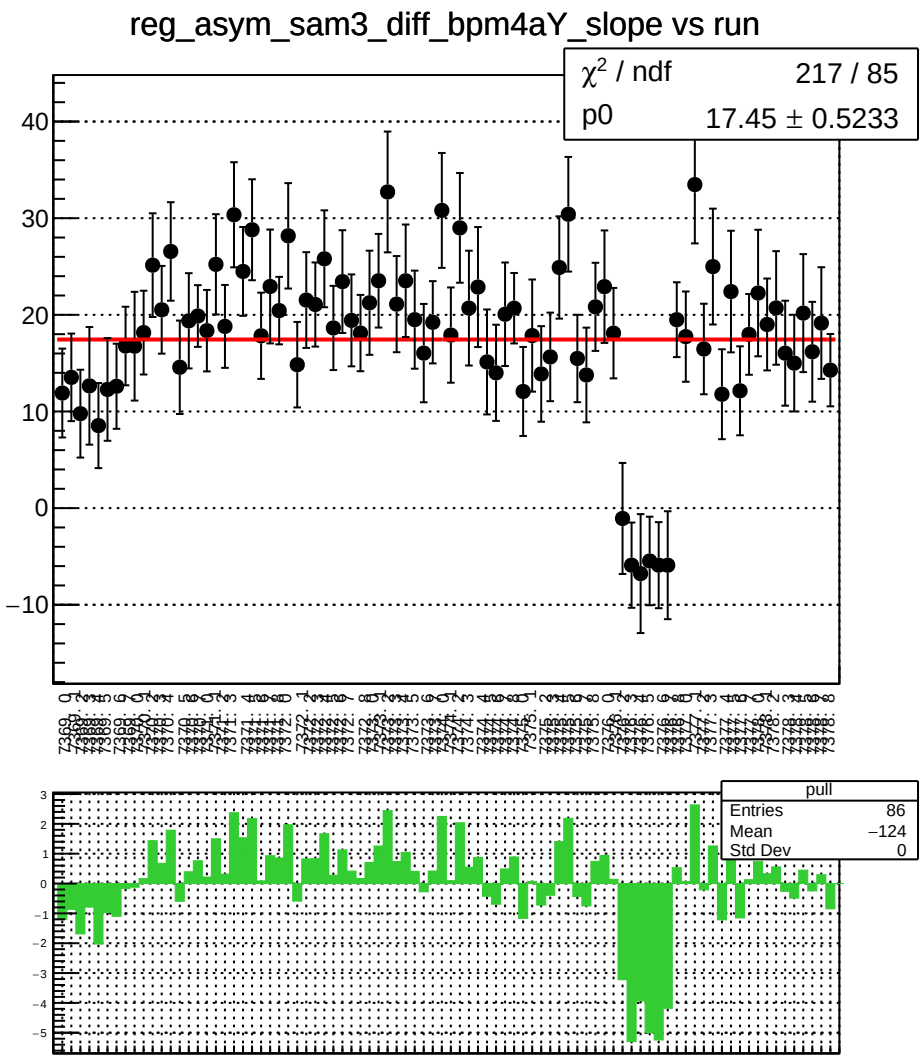

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 27.84 / 85
p0 −140.9 ± 1.26
−110
−120
−130
−140
−150
−160
−170
pull
Entries 86
Mean −206.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.01529
Std Dev 0.5688
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

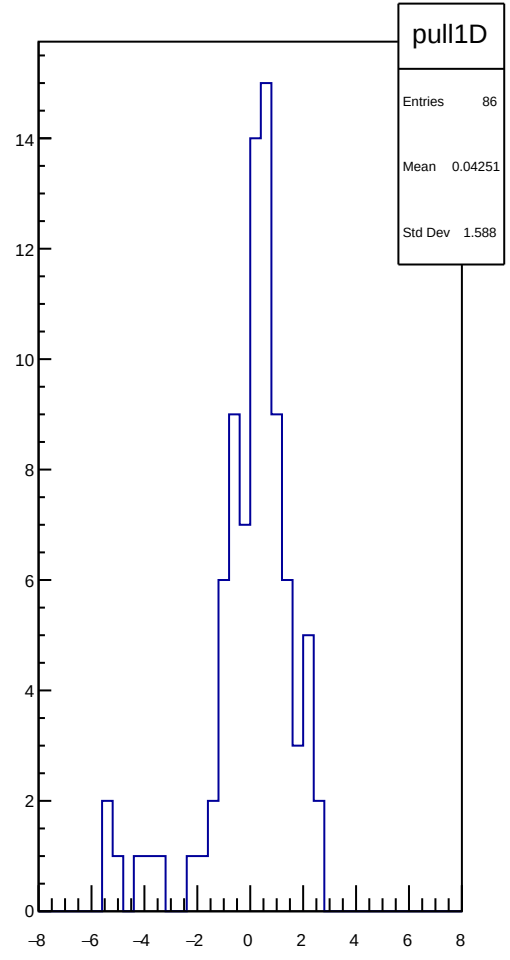

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 55.04 / 85
p0 1.5 ± 0.05675
pull
Entries 86
Mean −6363
Std Dev 0

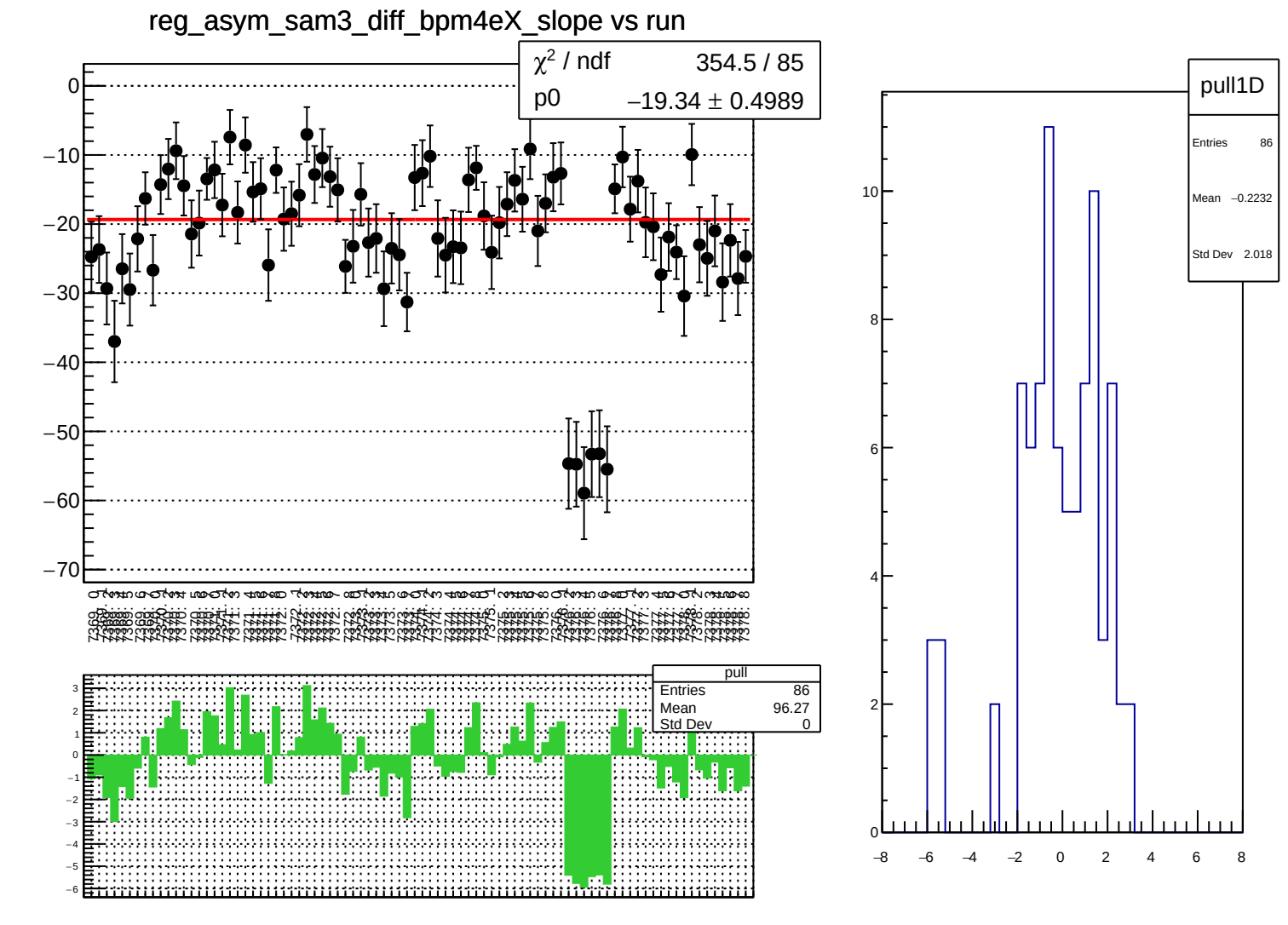

pull1D
Entries 86
Mean 0.002253
Std Dev 0.8

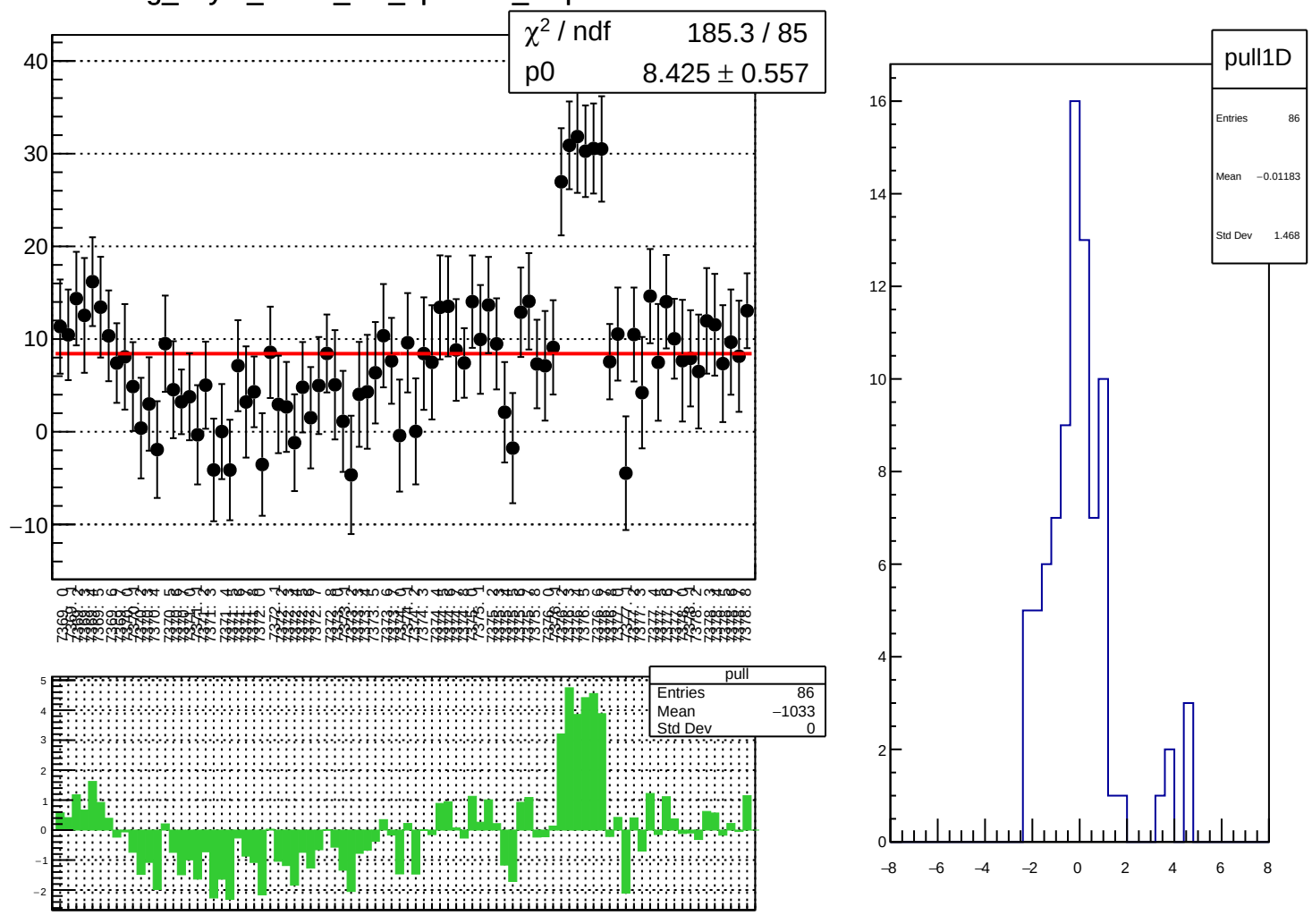

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 566.3 / 85
p0 −69.49 ± 0.4807
pull
Entries 86
Mean 55.32
Std Dev 50.6

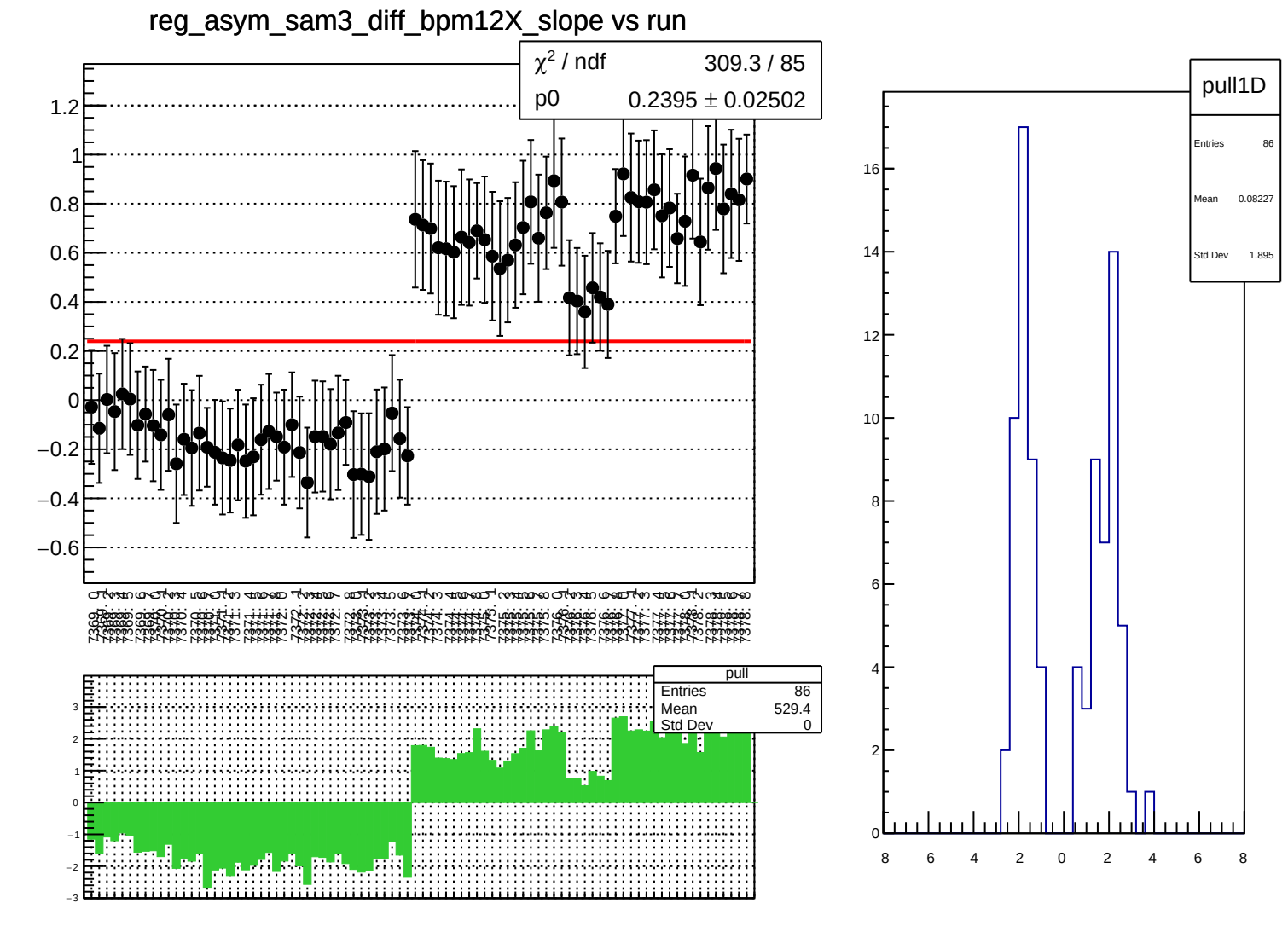

pull1D
Entries 86
Mean 0.2267
Std Dev 2.556

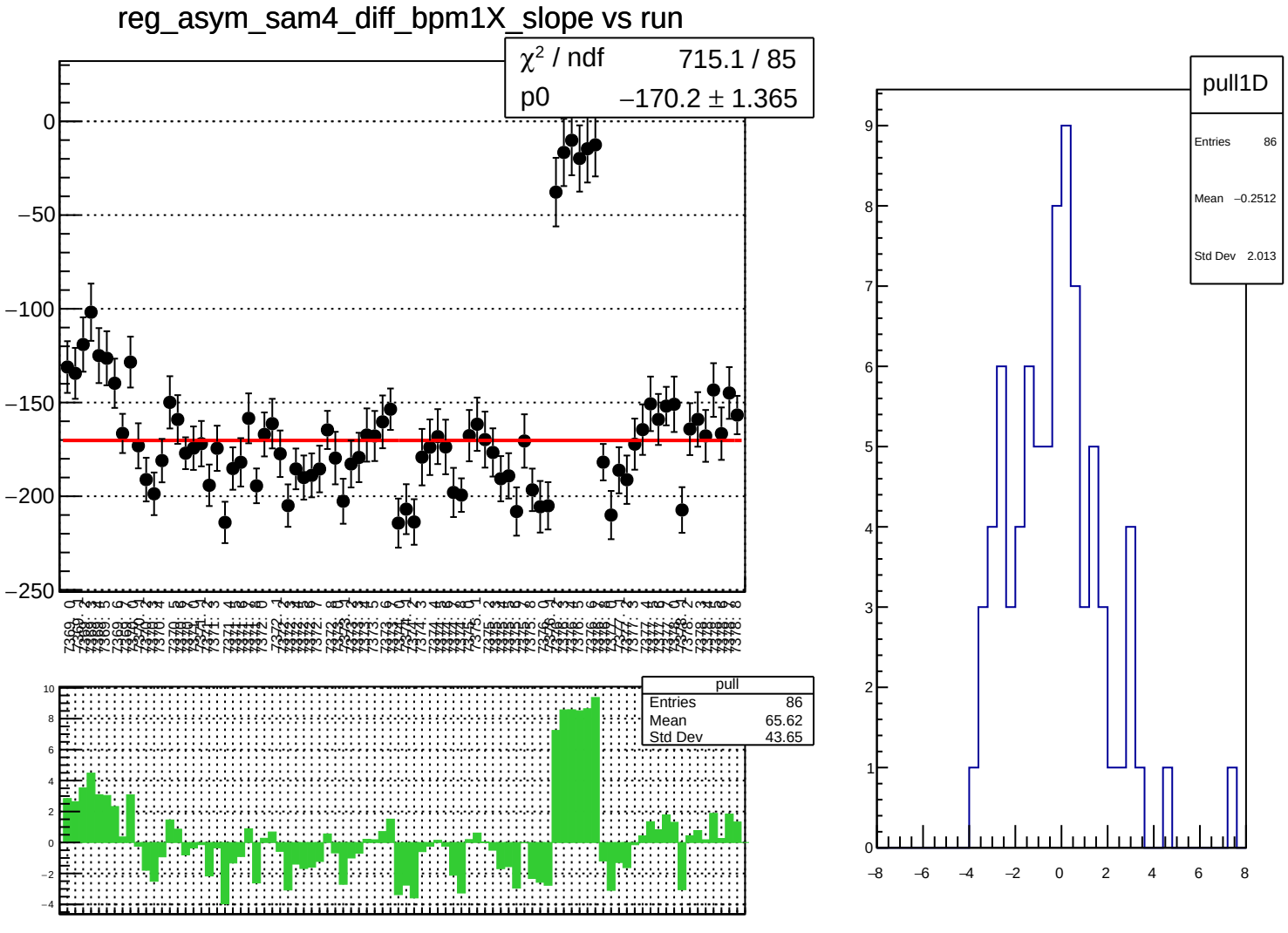

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 217 / 85
p0 17.45 ± 0.5233
pull
Entries 86
Mean −124
Std Dev 0

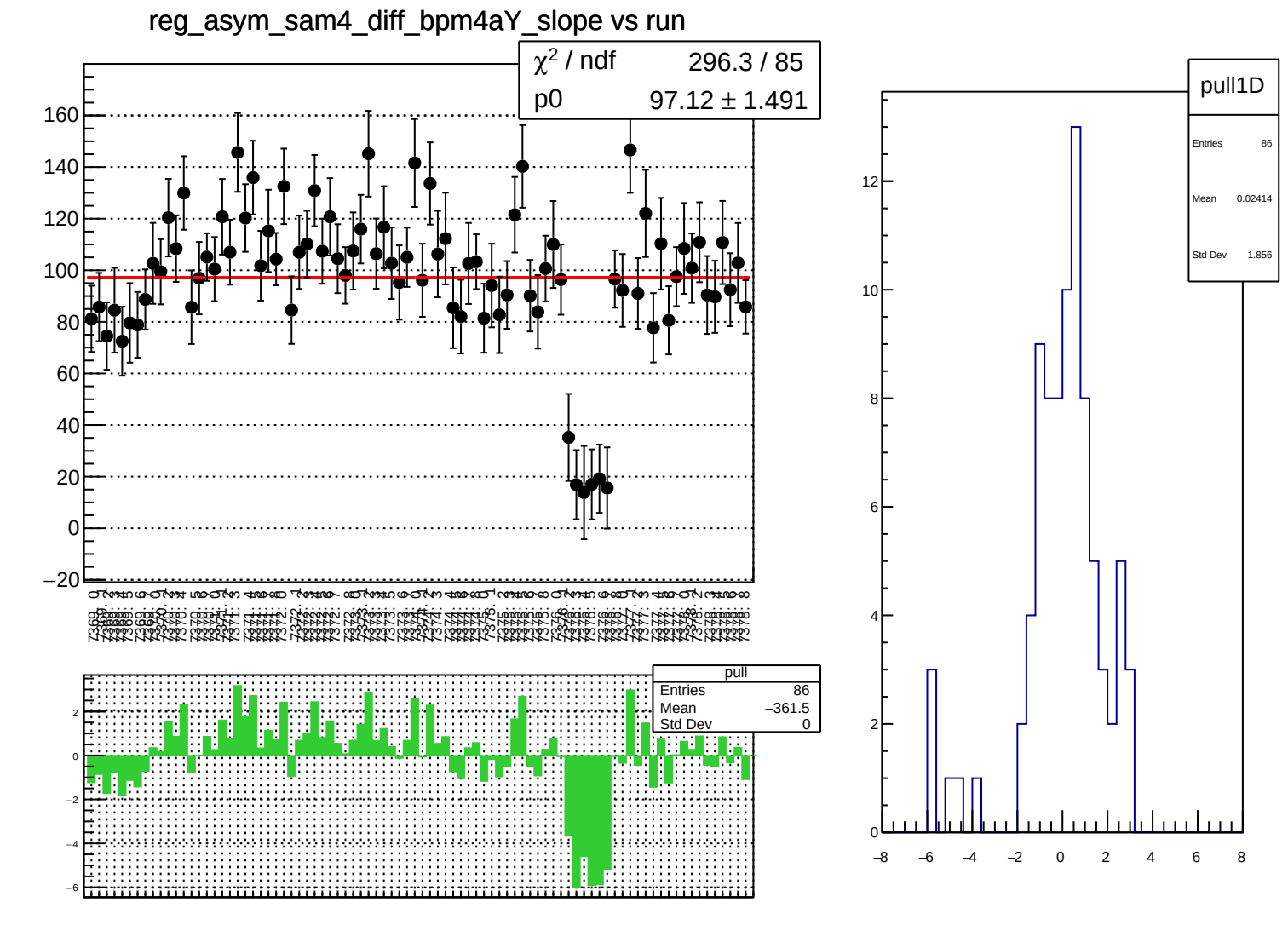

pull1D
Entries 86
Mean 0.04251
Std Dev 1.588

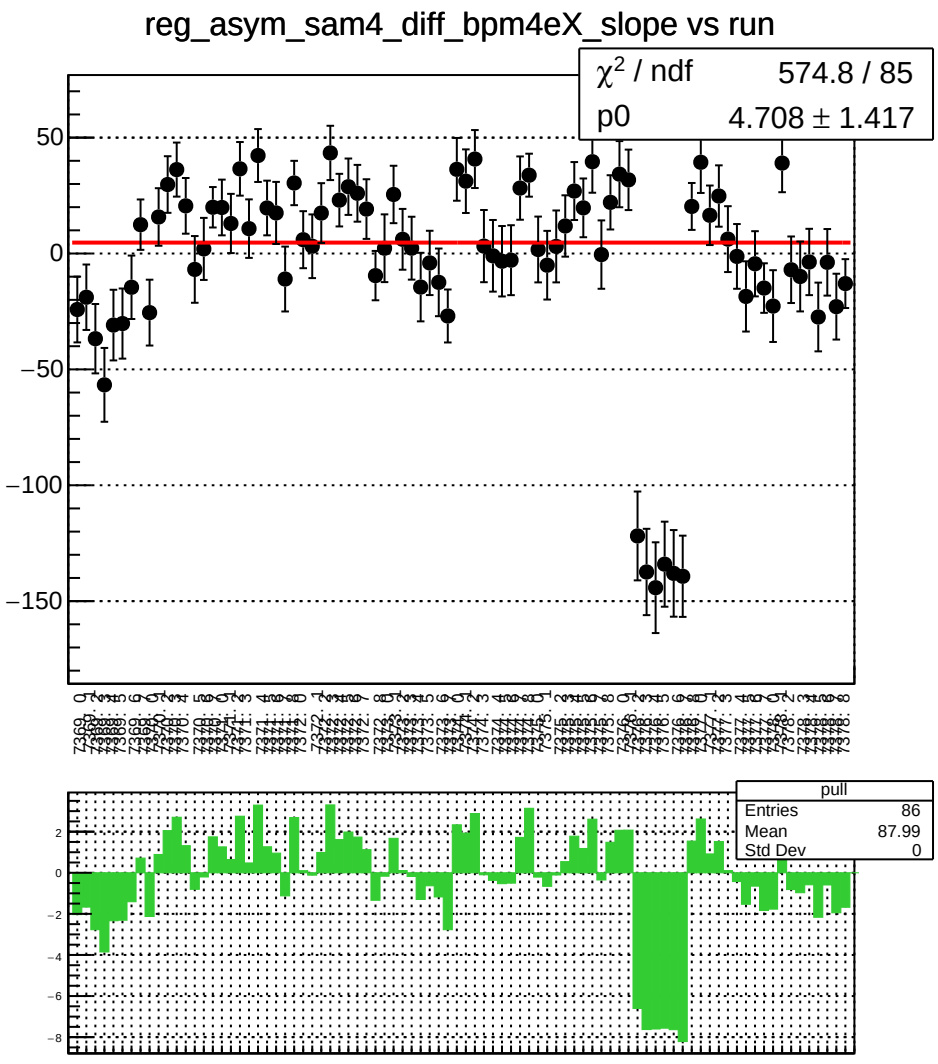

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 354.5 / 85
p0 −19.34 ± 0.4989
pull
Entries 86
Mean 96.27
Std Dev 0
pull1D
Entries 86
Mean −0.2232
Std Dev 2.018

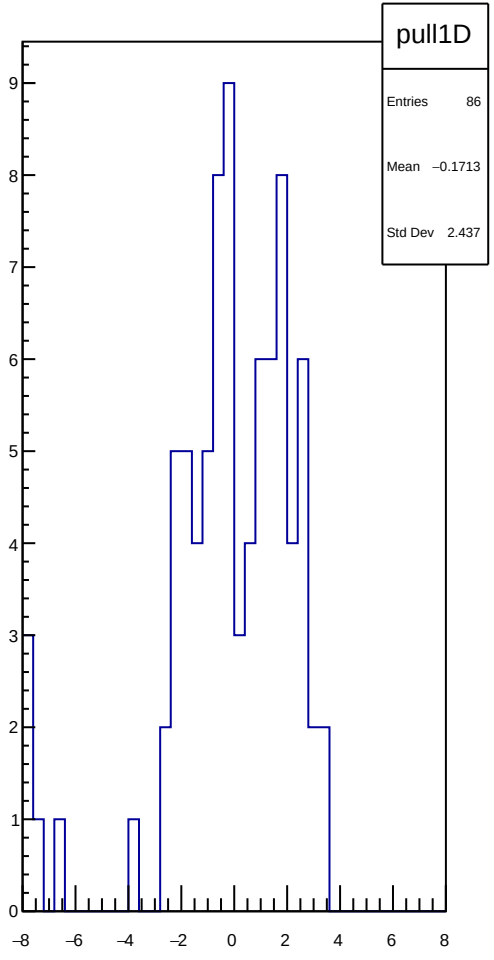

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 185.3 / 85
p0 8.425 ± 0.557
pull
Entries 86
Mean −1033
Std Dev 0
pull1D
Entries 86
Mean −0.01183
Std Dev 1.468

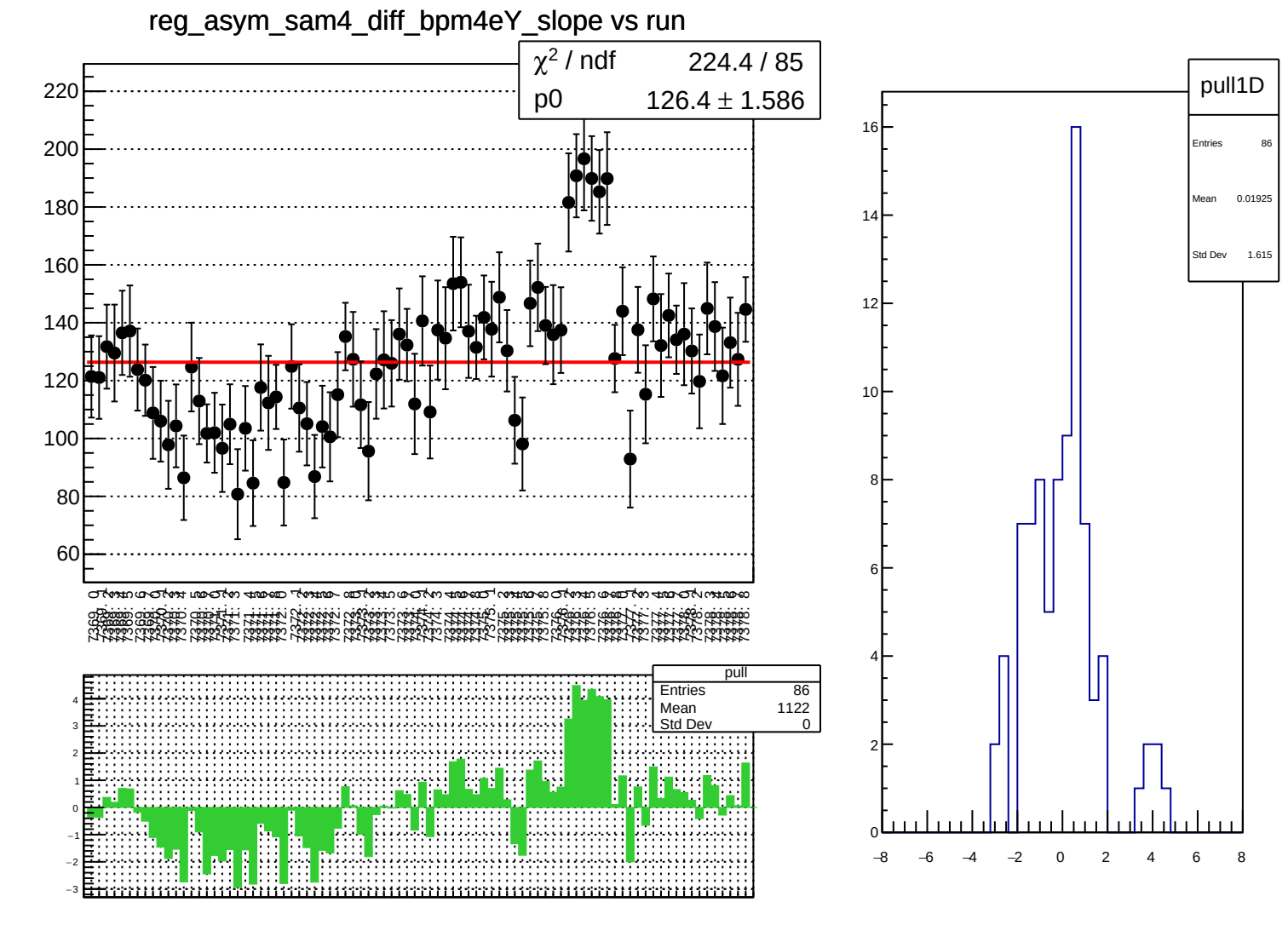

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 309.3 / 85
p0 0.2395 ± 0.02502
pull
Entries 86
Mean 529.4
Std Dev 0
pull1D
Entries 86
Mean 0.08227
Std Dev 1.895

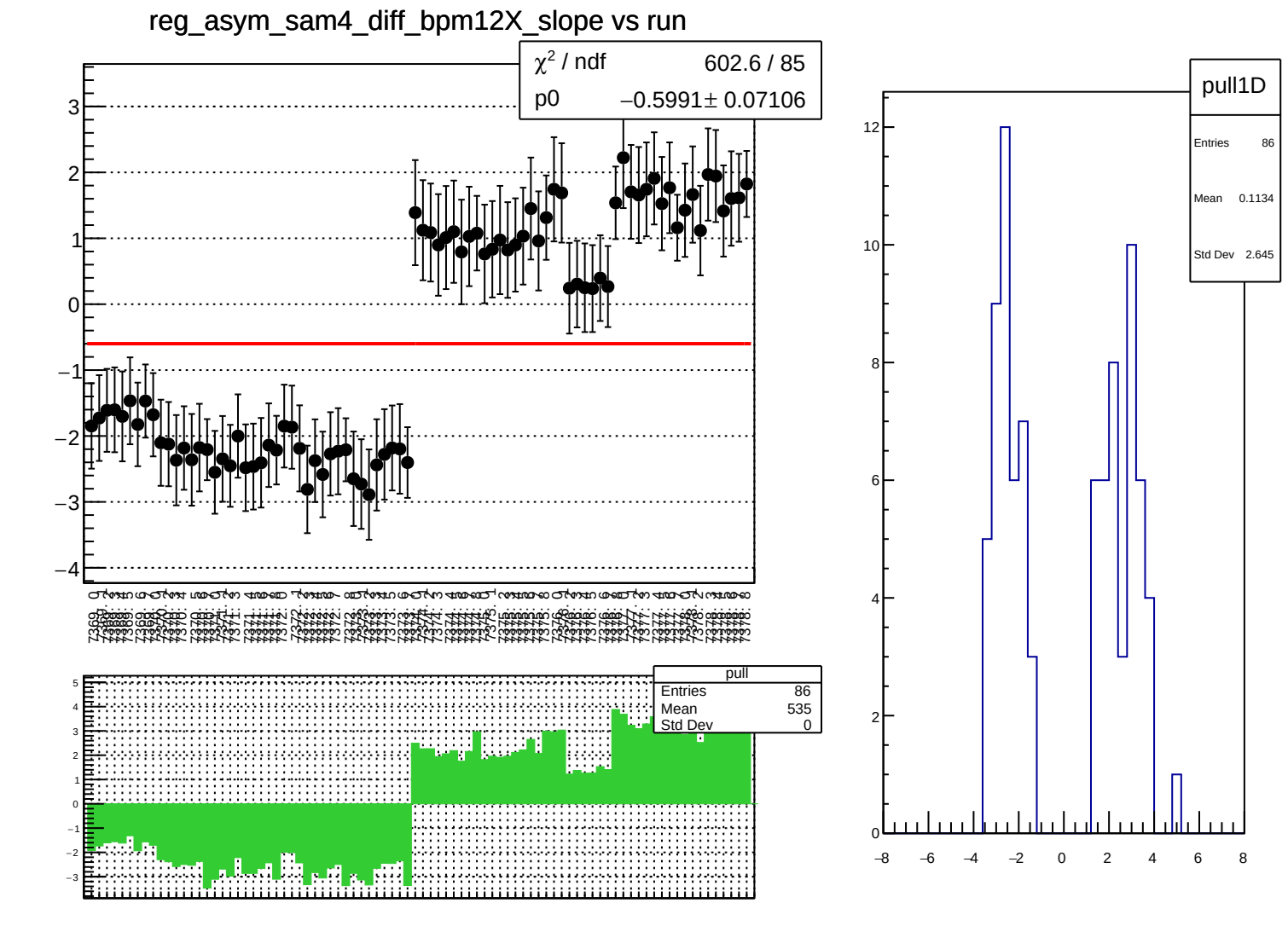

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 715.1 / 85
p0 −170.2 ± 1.365
pull
Entries 86
Mean 65.62
Std Dev 43.65
pull1D
Entries 86
Mean −0.2512
Std Dev 2.013

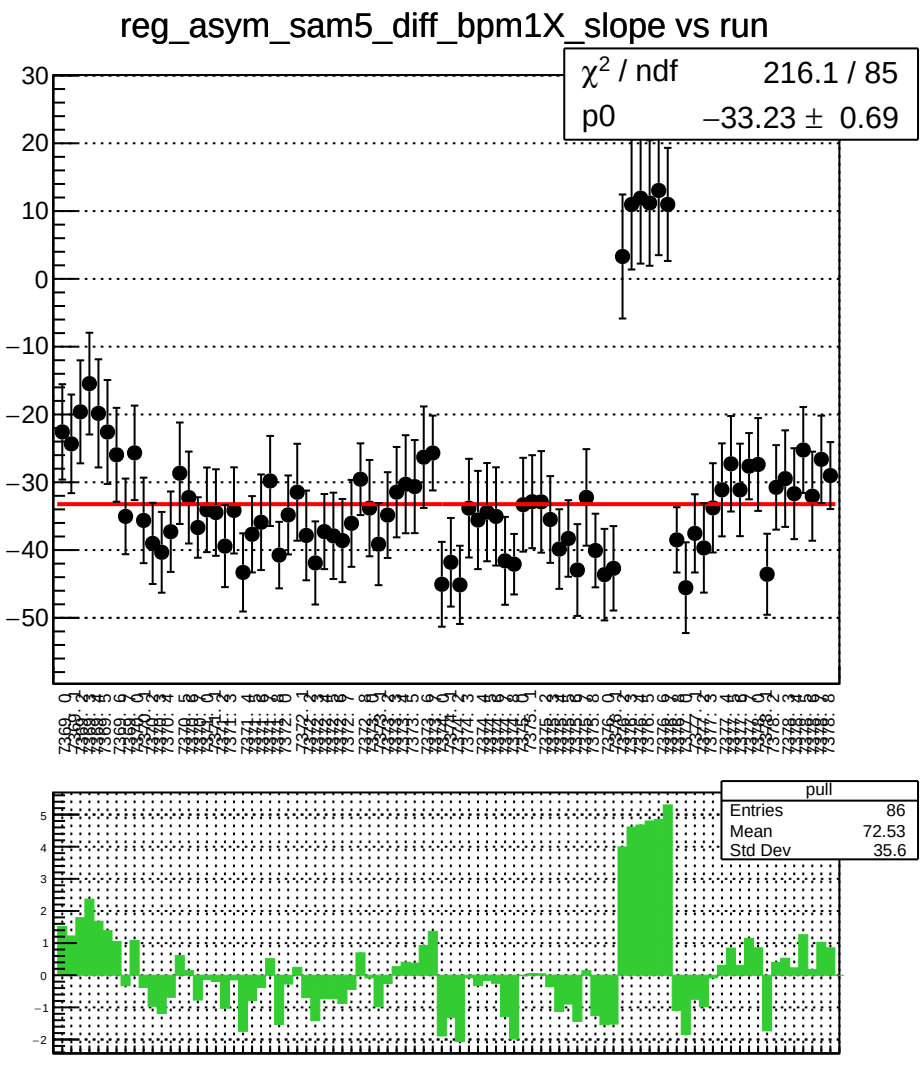

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 296.3 / 85
p0 97.12 ± 1.491
pull
Entries 86
Mean −361.5
Std Dev 0
pull1D
Entries 86
Mean 0.02414
Std Dev 1.856

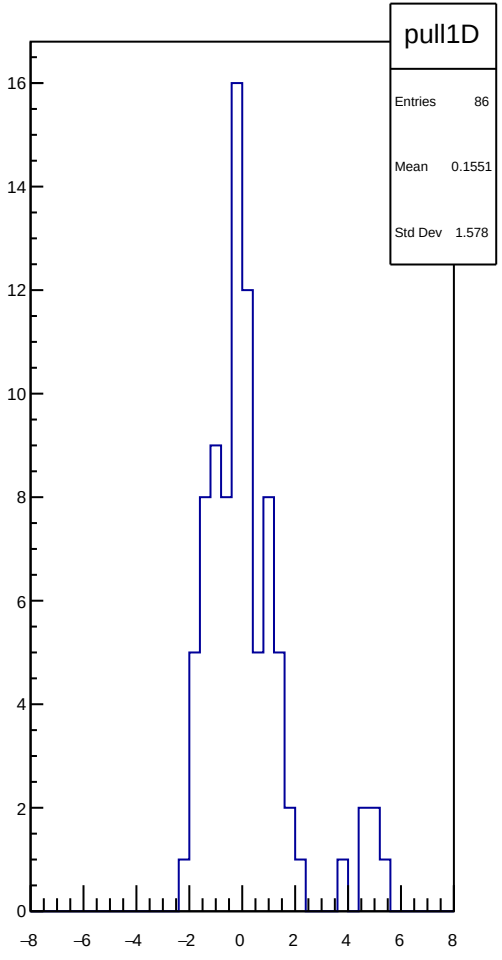

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 574.8 / 85
p0 4.708 ± 1.417
50
0
−50
−100
−150
pull
Entries 86
Mean 87.99
Std Dev 0
2
0
−2
−4
−6
−8

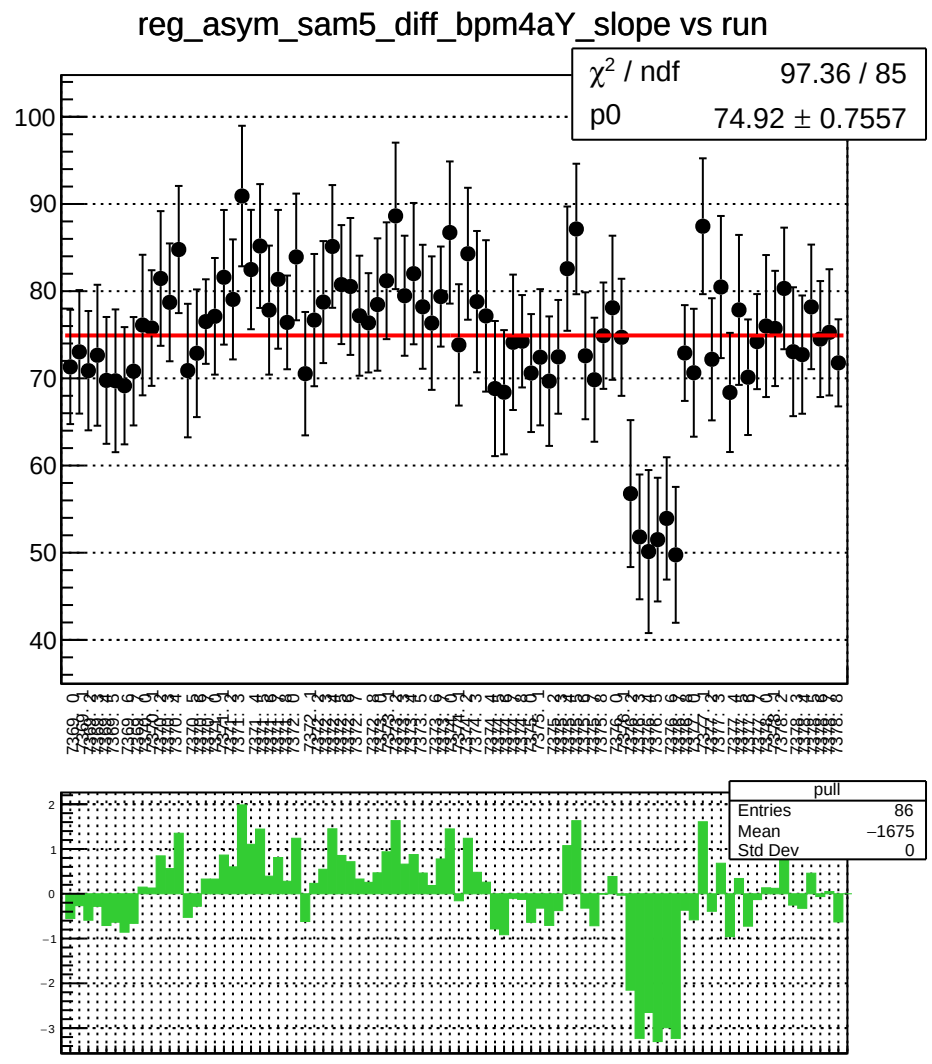

pull1D
Entries 86
Mean −0.1713
Std Dev 2.437
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

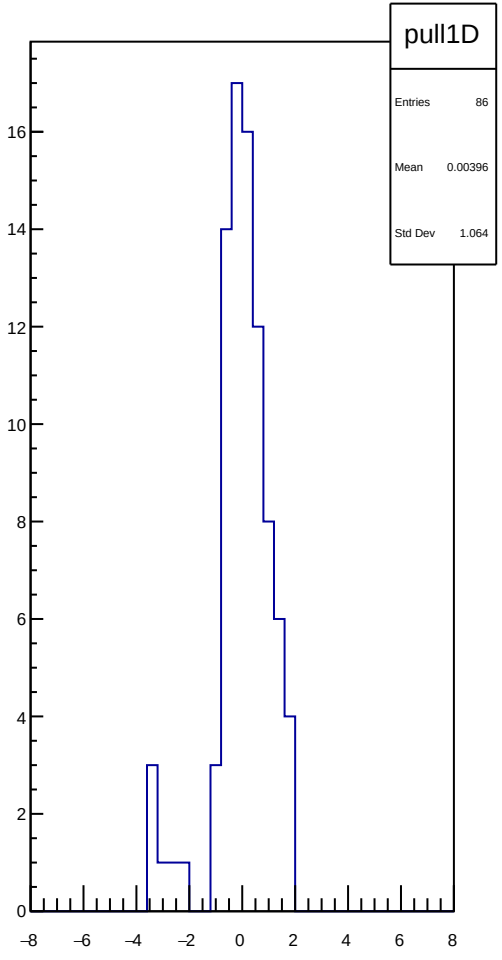

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 224.4 / 85
p0 126.4 ± 1.586
pull
Entries 86
Mean 1122
Std Dev 0
pull1D
Entries 86
Mean 0.01925
Std Dev 1.615

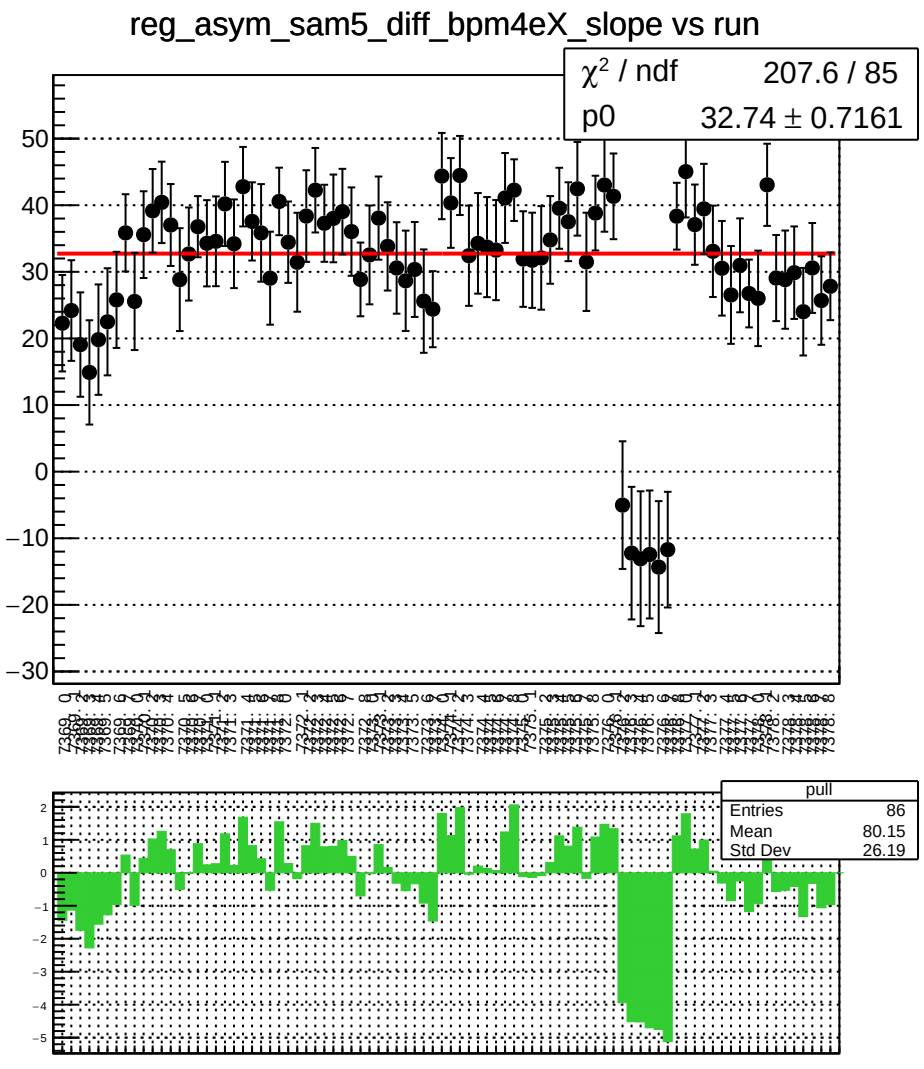

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 602.6 / 85
p0 −0.5991 ± 0.07106
pull
Entries 86
Mean 535
Std Dev 0
pull1D
Entries 86
Mean 0.1134
Std Dev 2.645

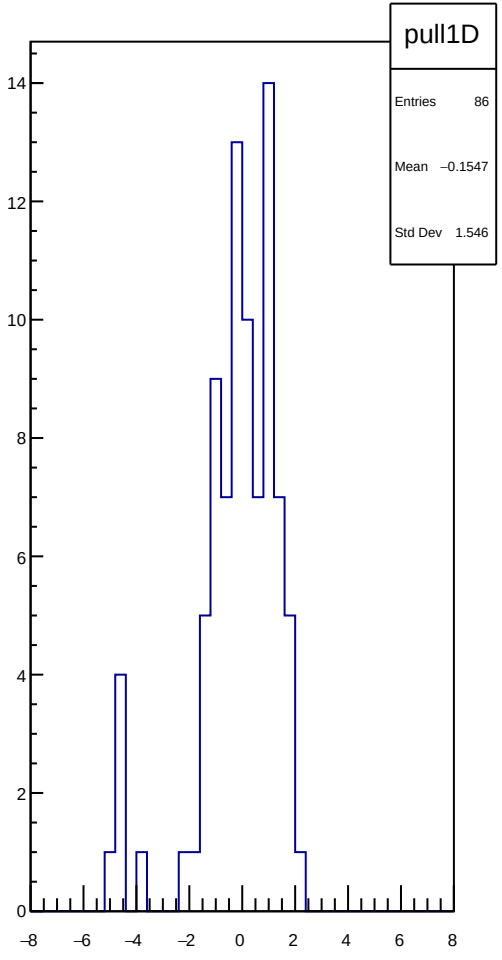

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 216.1 / 85
p0 −33.23 ± 0.69
pull
Entries 86
Mean 72.53
Std Dev 35.6

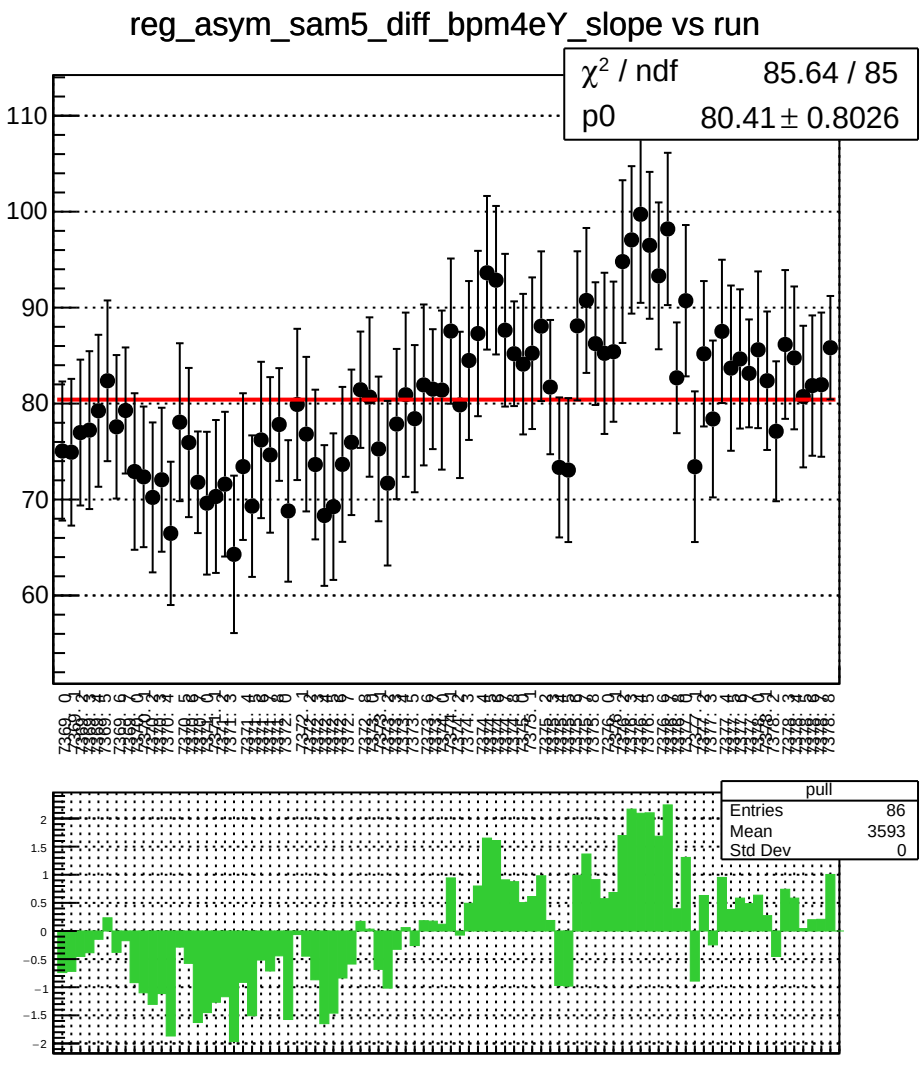

pull1D
Entries 86
Mean 0.1551
Std Dev 1.578

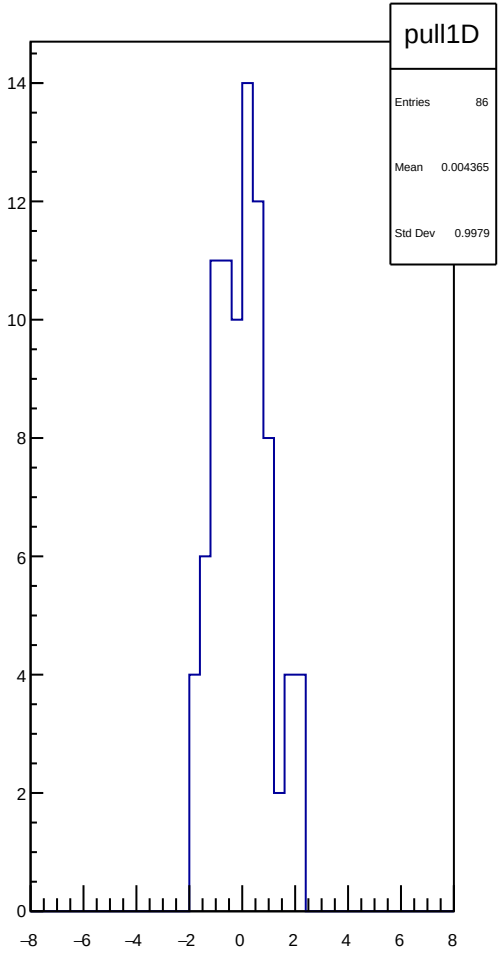

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 97.36 / 85
p0 74.92 ± 0.7557
pull
Entries 86
Mean −1675
Std Dev 0

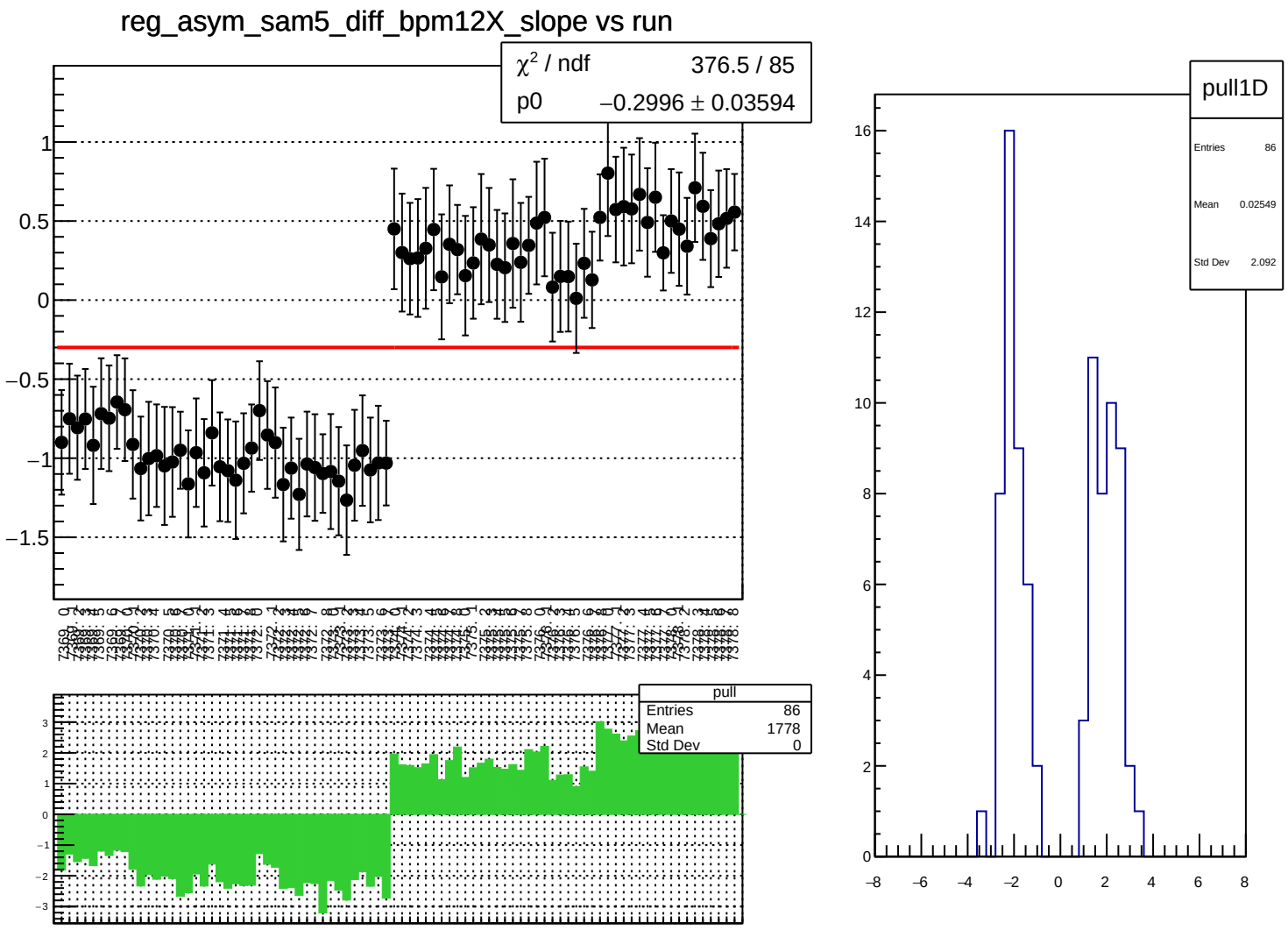

pull1D
Entries 86
Mean 0.00396
Std Dev 1.064

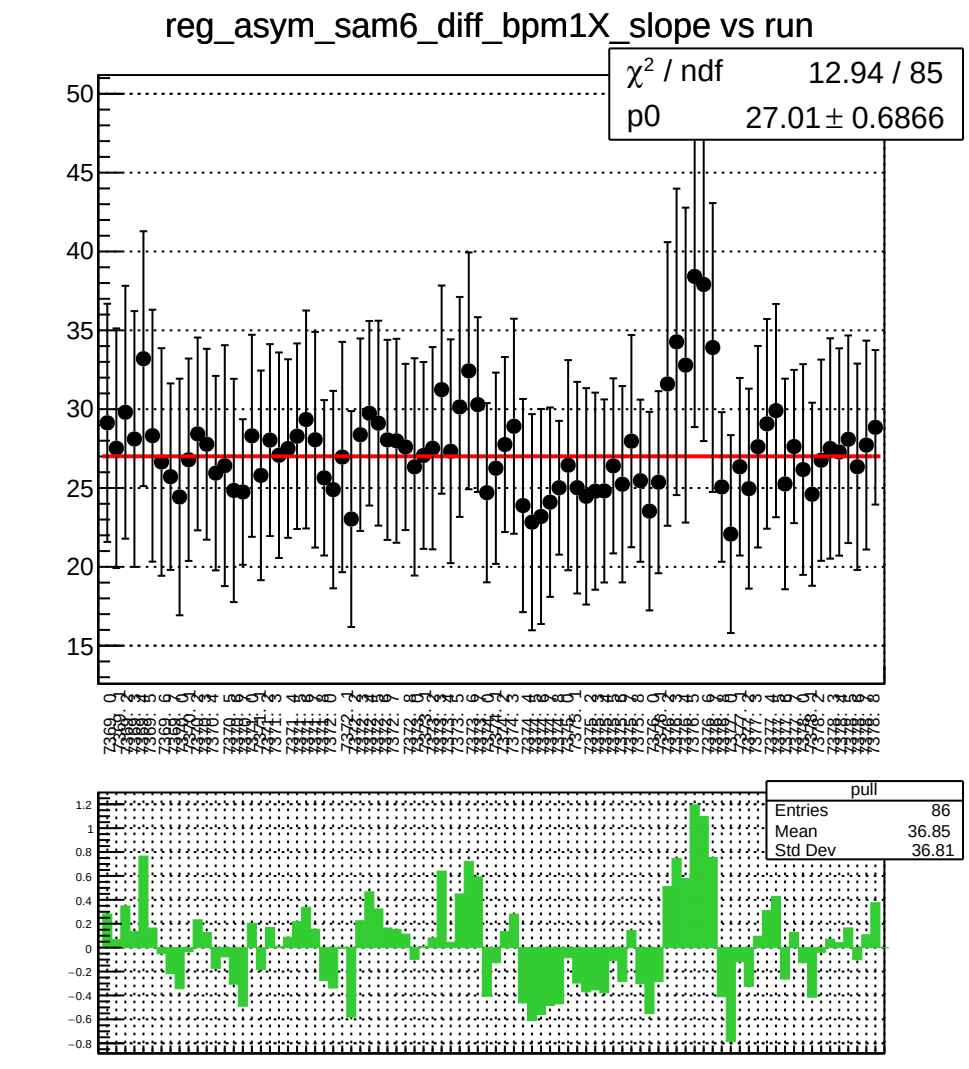

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 207.6 / 85
p0 32.74 ± 0.7161
pull
Entries 86
Mean 80.15
Std Dev 26.19

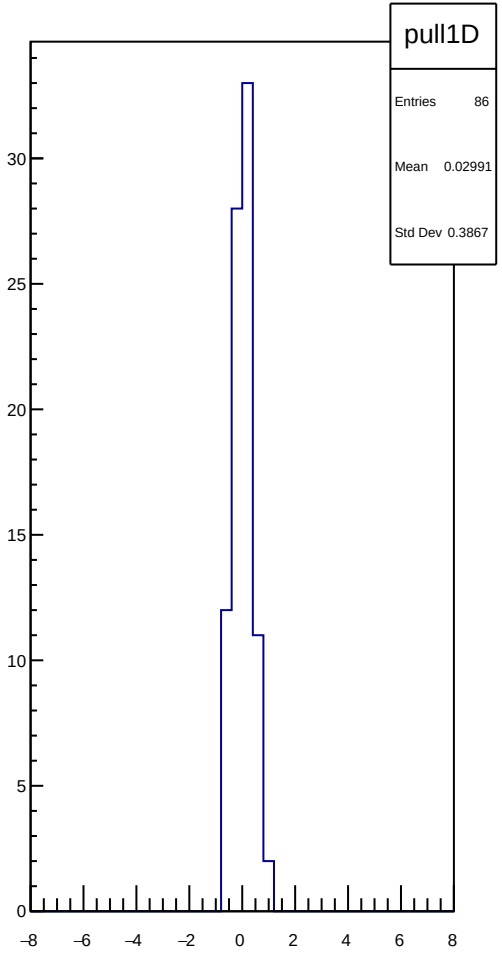

pull1D
Entries 86
Mean −0.1547
Std Dev 1.546

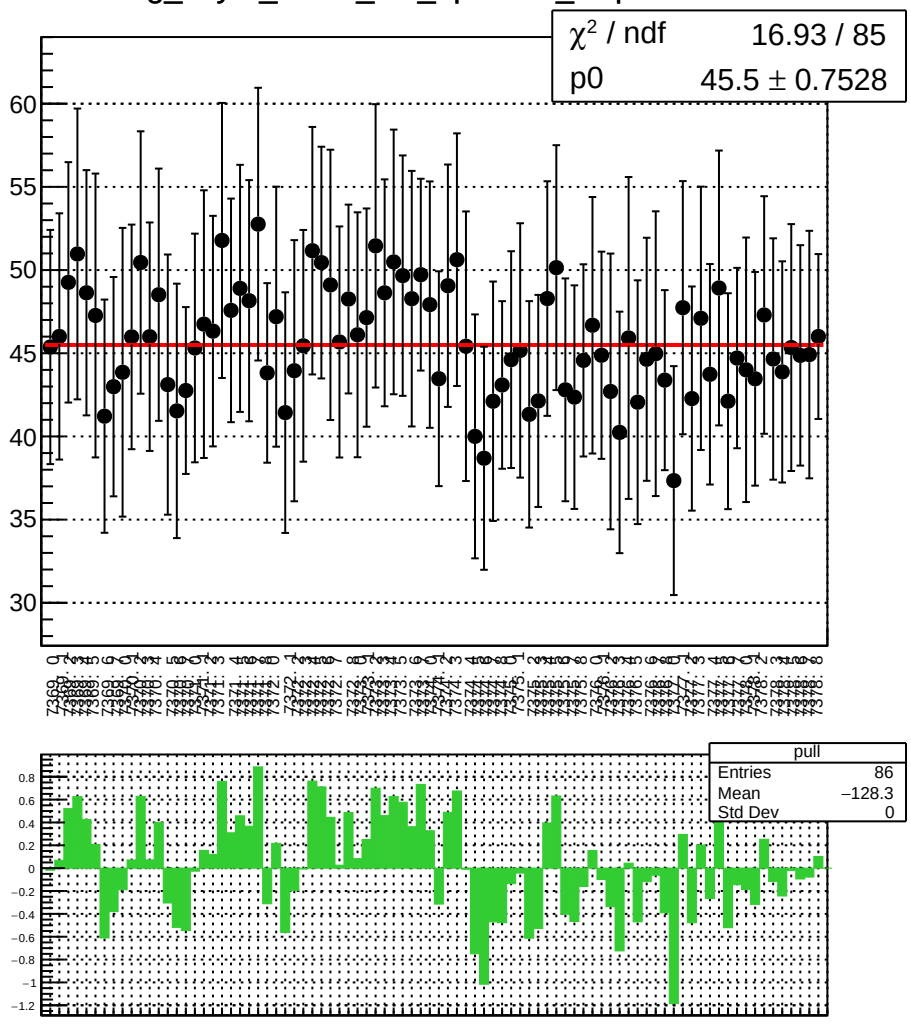

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 85.64 / 85
p0 80.41 ± 0.8026
pull
Entries 86
Mean 3593
Std Dev 0

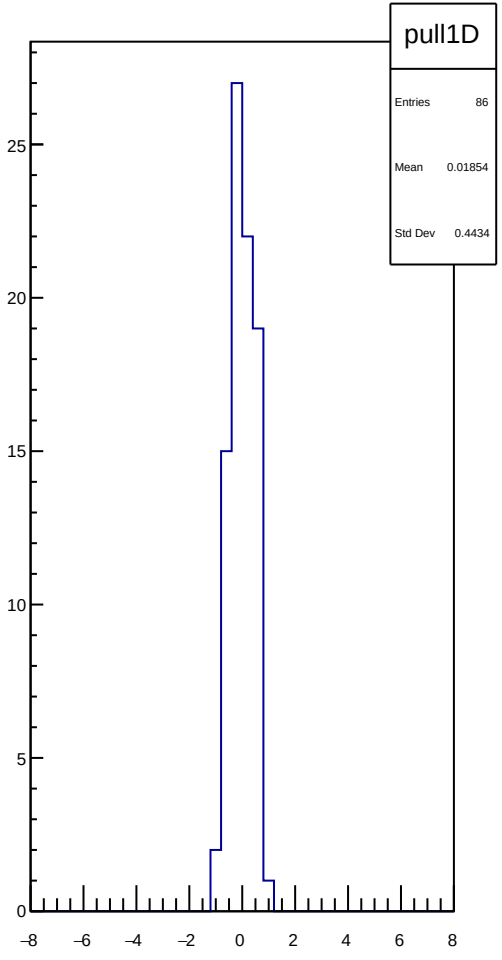

pull1D
Entries 86
Mean 0.004365
Std Dev 0.9979

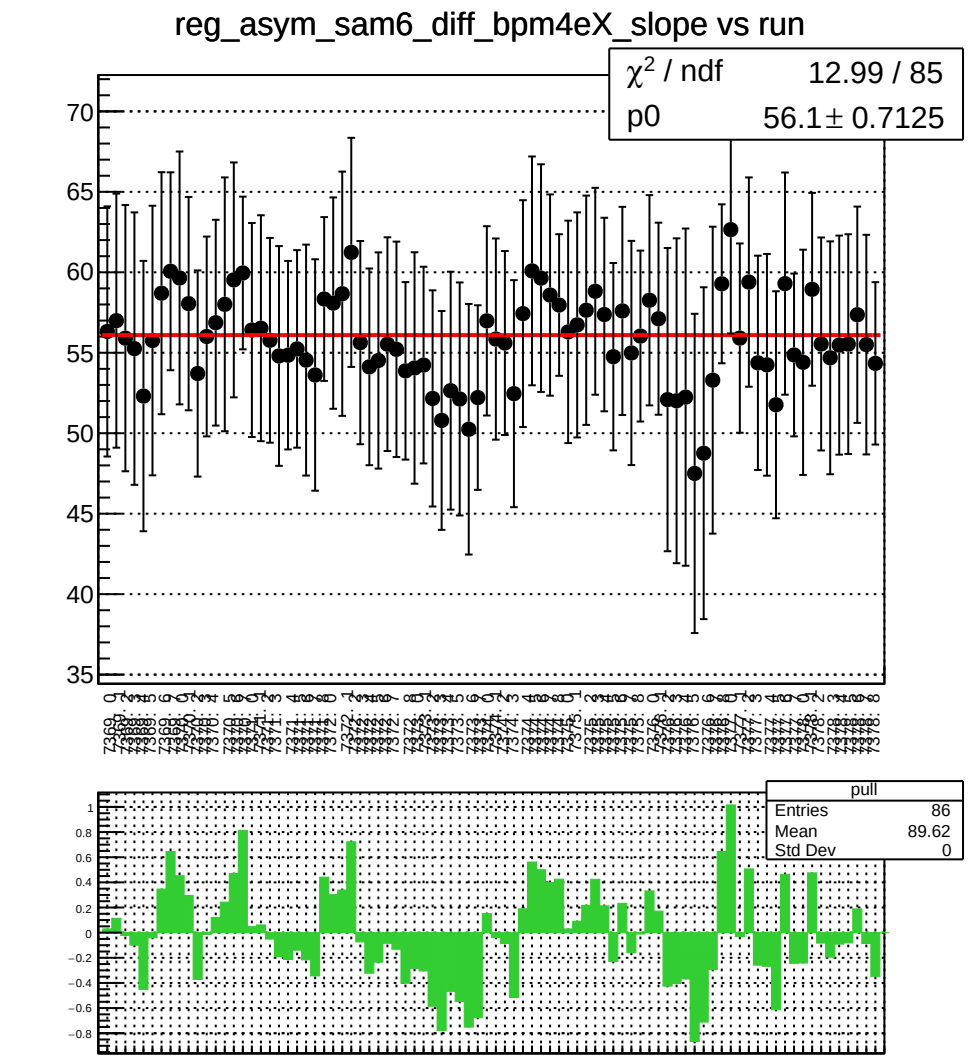

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 376.5 / 85
p0 −0.2996 ± 0.03594
pull
Entries 86
Mean 1778
Std Dev 0
pull1D
Entries 86
Mean 0.02549
Std Dev 2.092

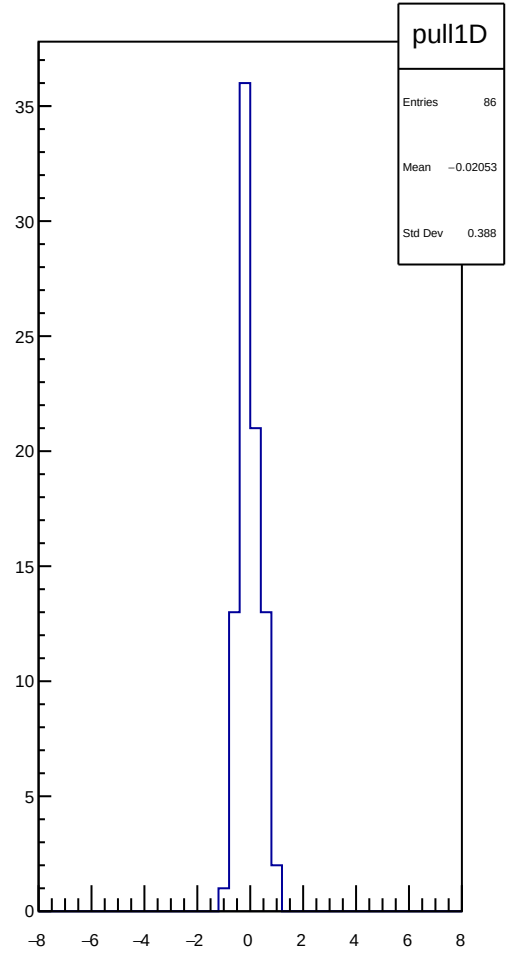

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 12.94 / 85
p0 27.01 ± 0.6866
pull
Entries 86
Mean 36.85
Std Dev 36.81

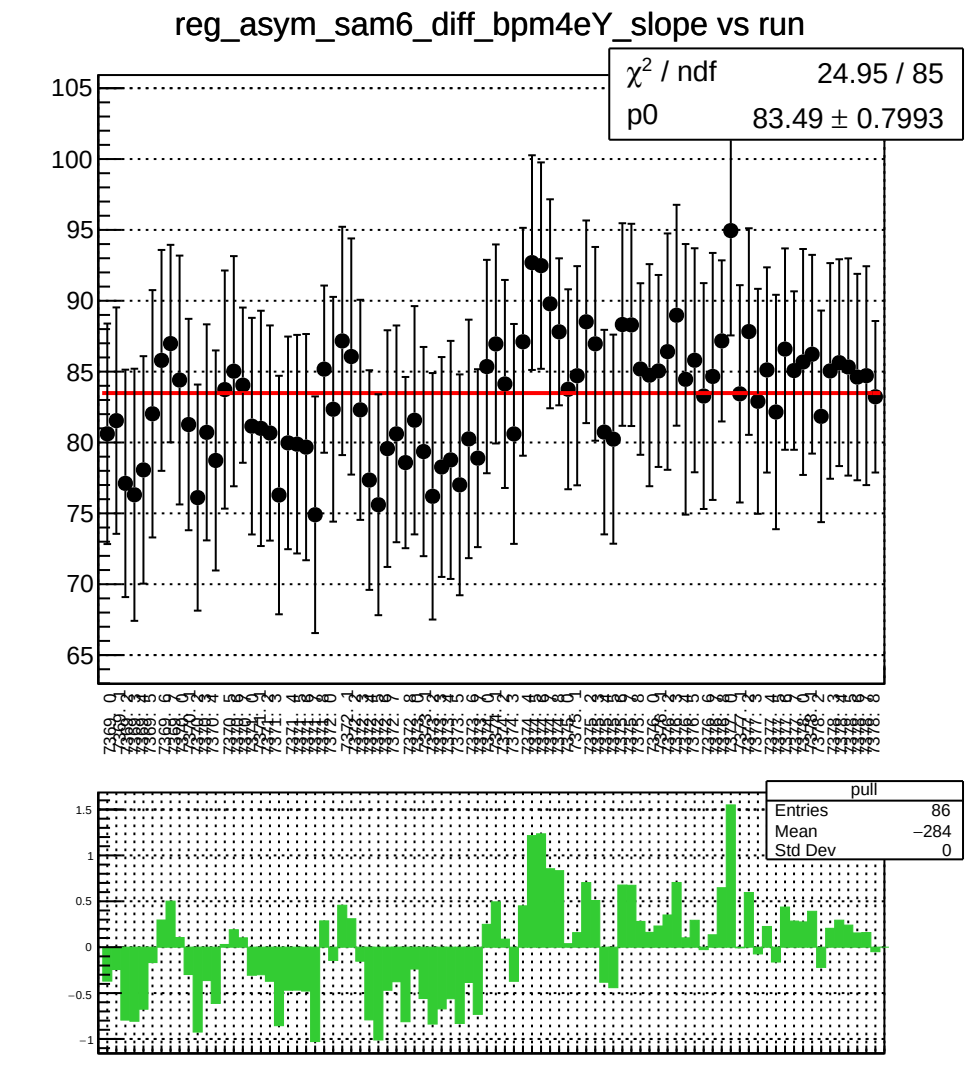

pull1D
Entries 86
Mean 0.02991
Std Dev 0.3867

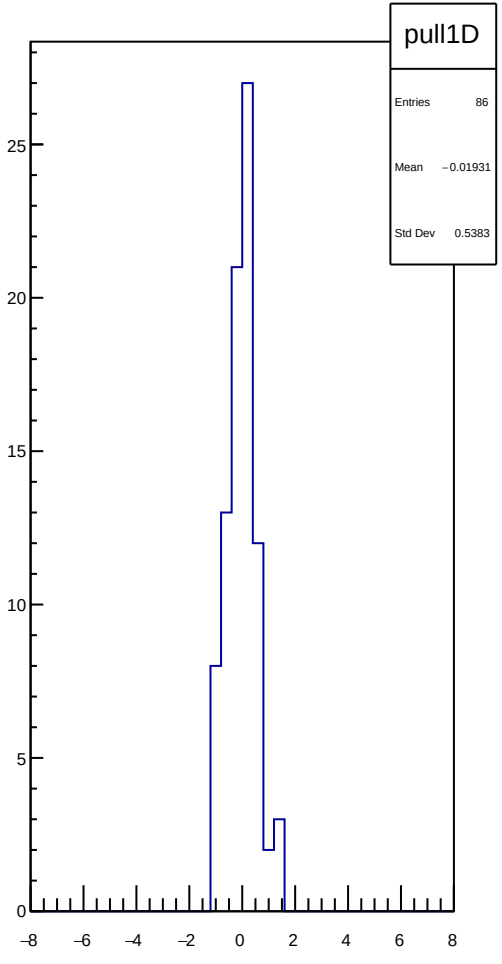

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 16.93 / 85
p0 45.5 ± 0.7528
pull
Entries 86
Mean −128.3
Std Dev 0

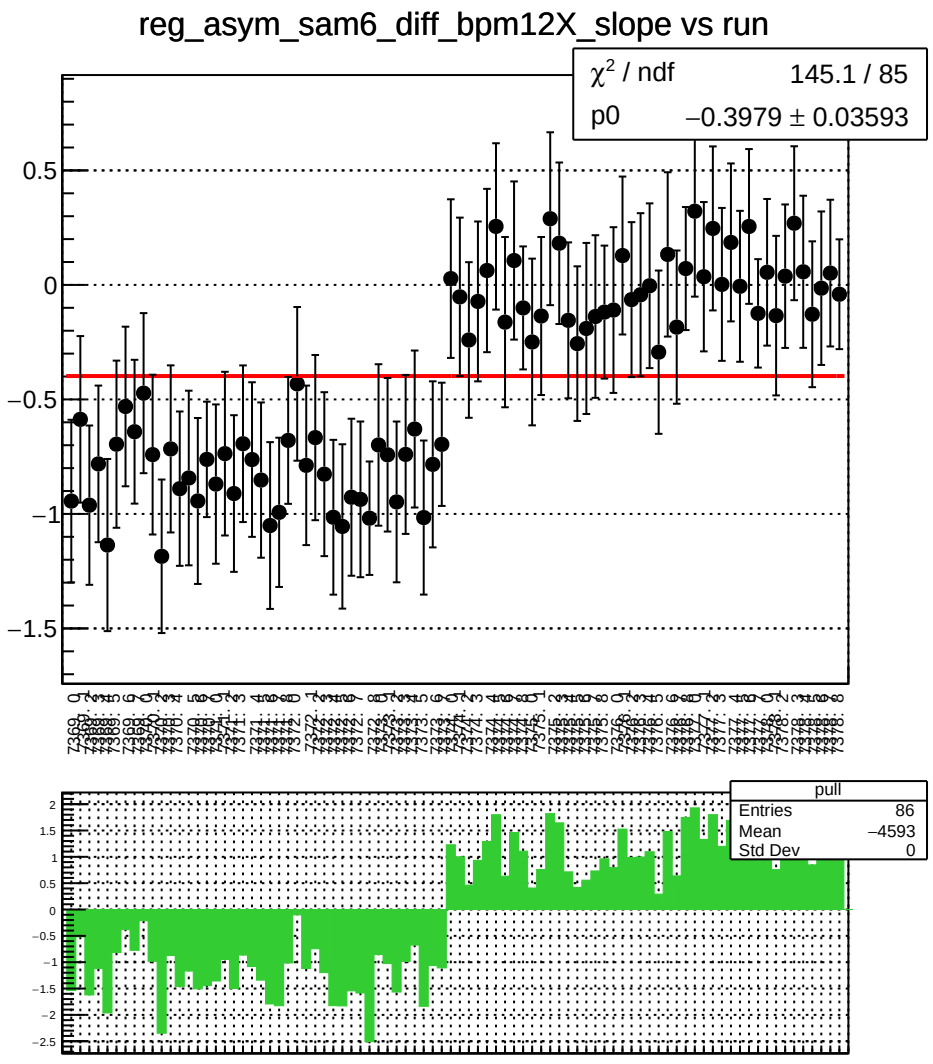

pull1D
Entries 86
Mean 0.01854
Std Dev 0.4434

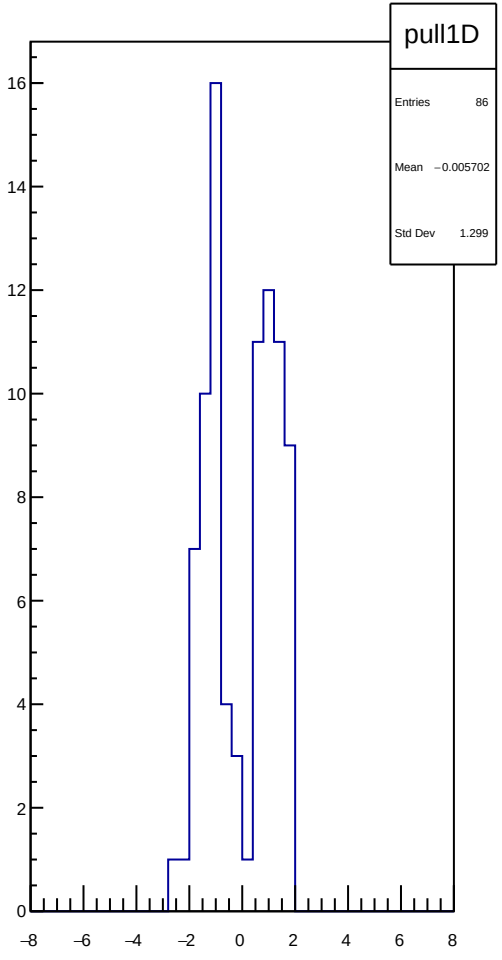

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 12.99 / 85
p0 56.1 ± 0.7125
pull
Entries 86
Mean 89.62
Std Dev 0

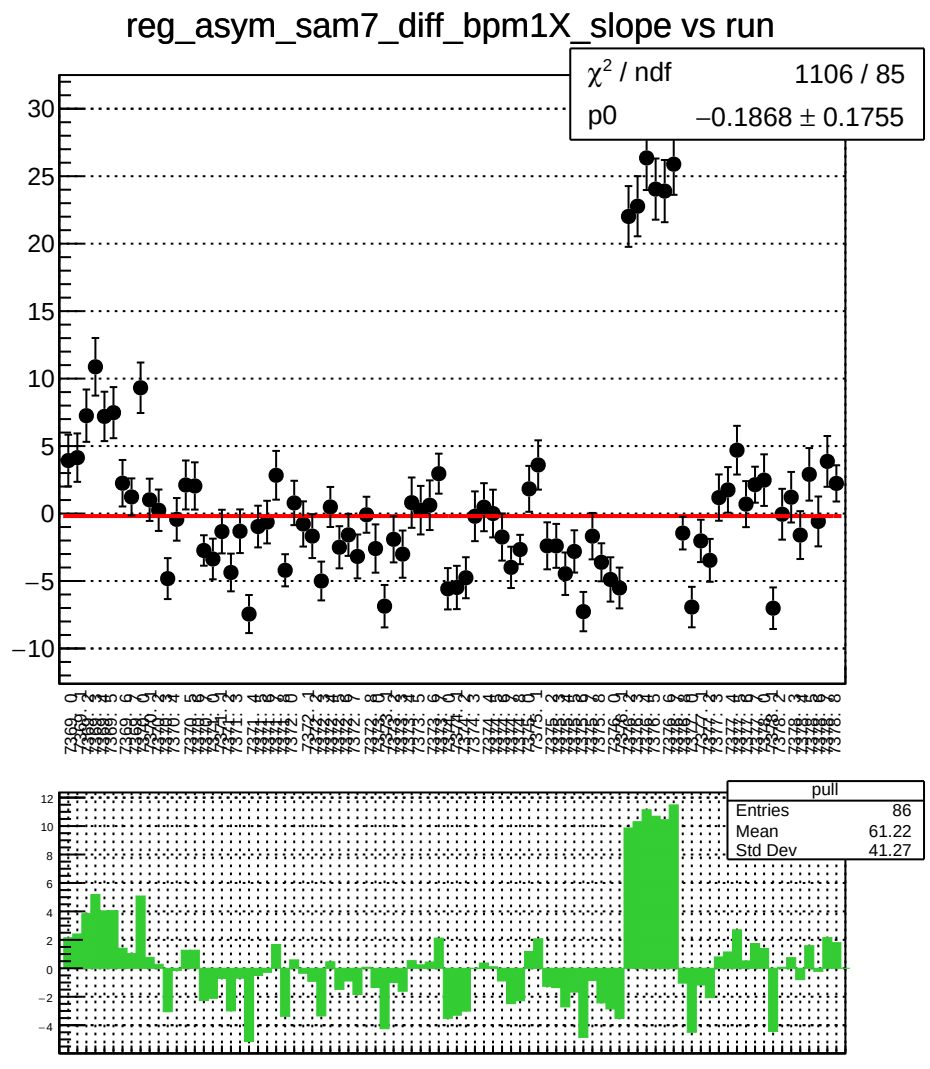

pull1D
Entries 86
Mean −0.02053
Std Dev 0.388

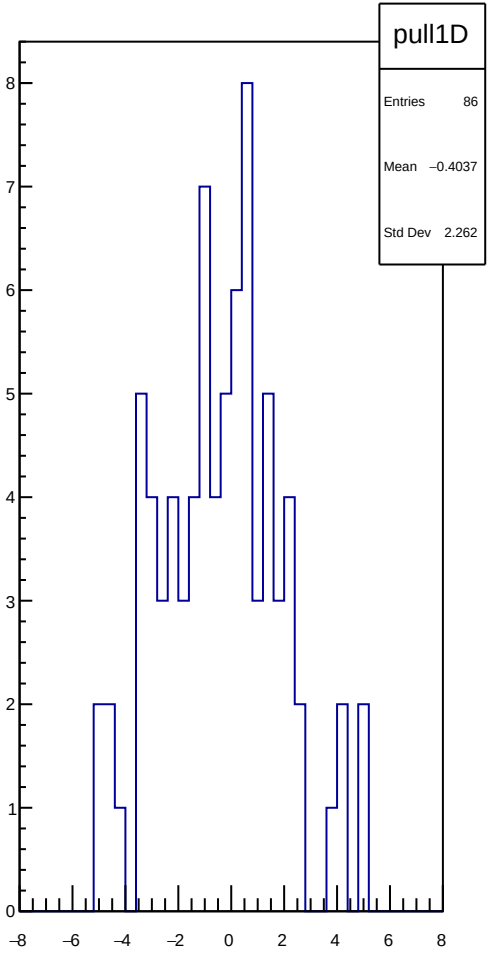

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 24.95 / 85
p0 83.49 ± 0.7993
pull
Entries 86
Mean −284
Std Dev 0

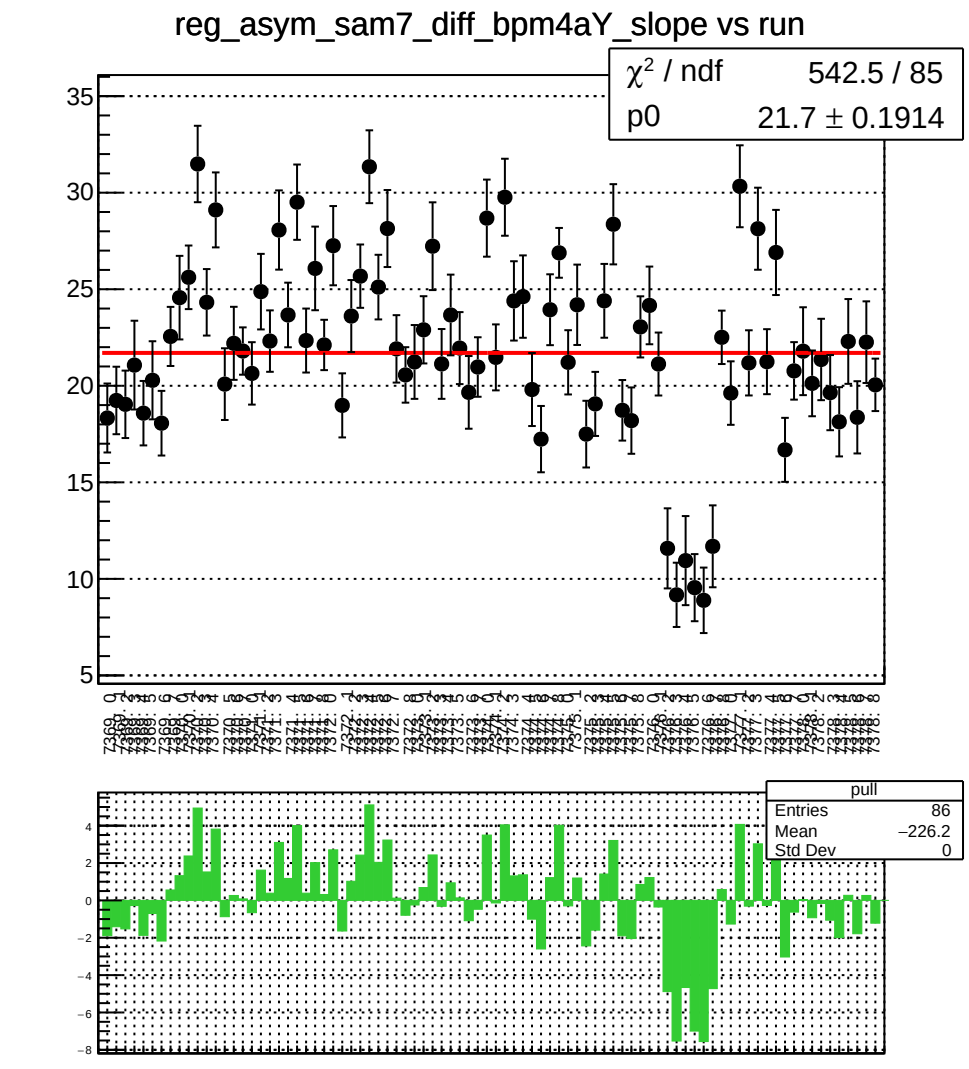

pull1D
Entries 86
Mean −0.01931
Std Dev 0.5383

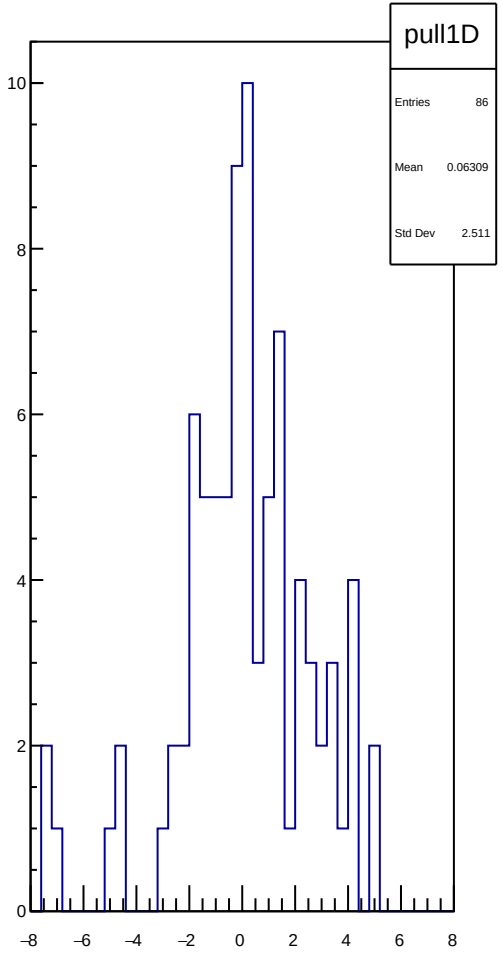

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 145.1 / 85
p0 −0.3979 ± 0.03593
pull
Entries 86
Mean −4593
Std Dev 0

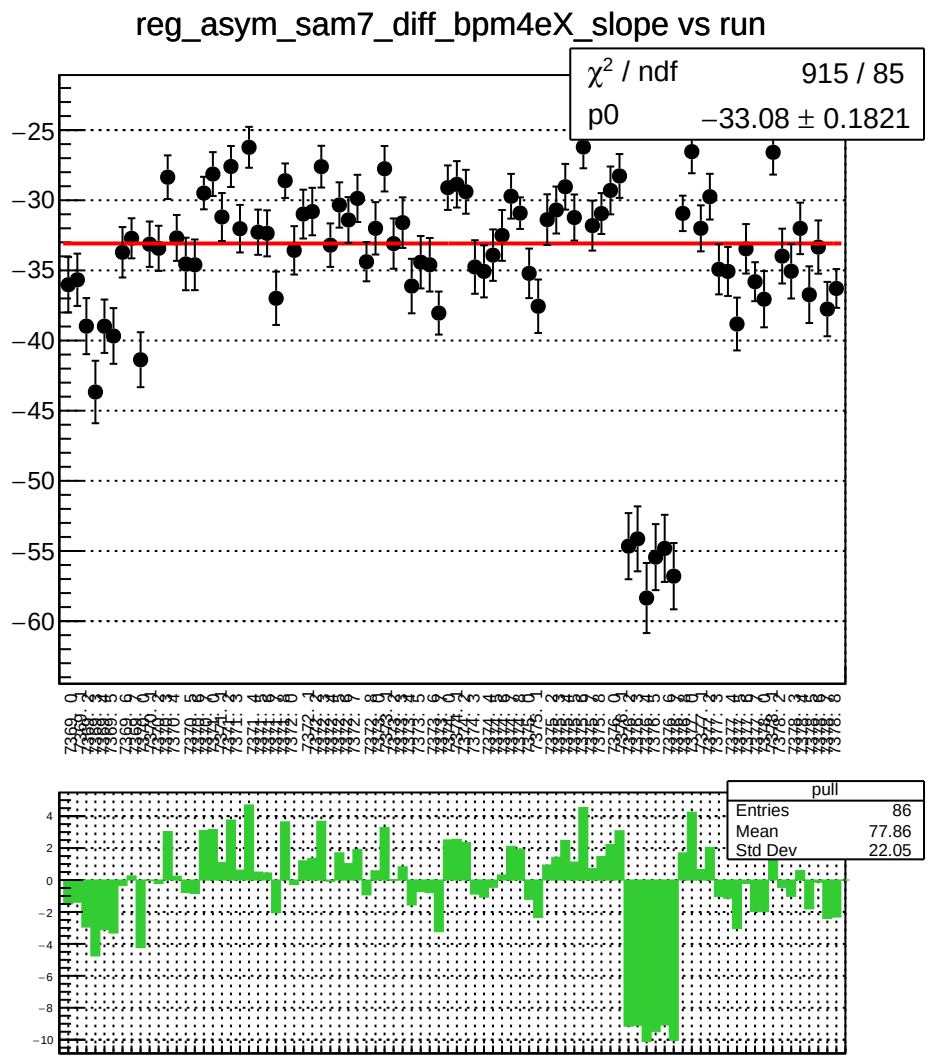

pull1D
Entries 86
Mean −0.005702
Std Dev 1.299

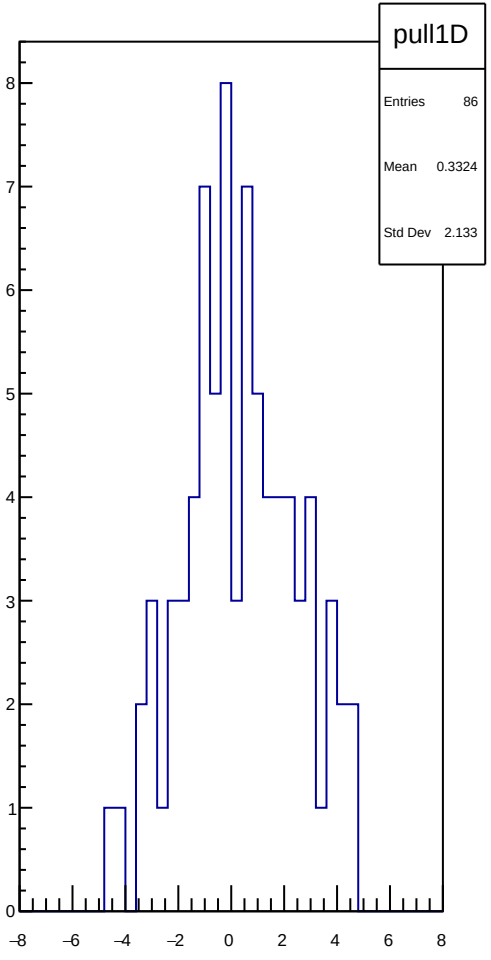

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 1106 / 85
p0 −0.1868 ± 0.1755
pull
Entries 86
Mean 61.22
Std Dev 41.27

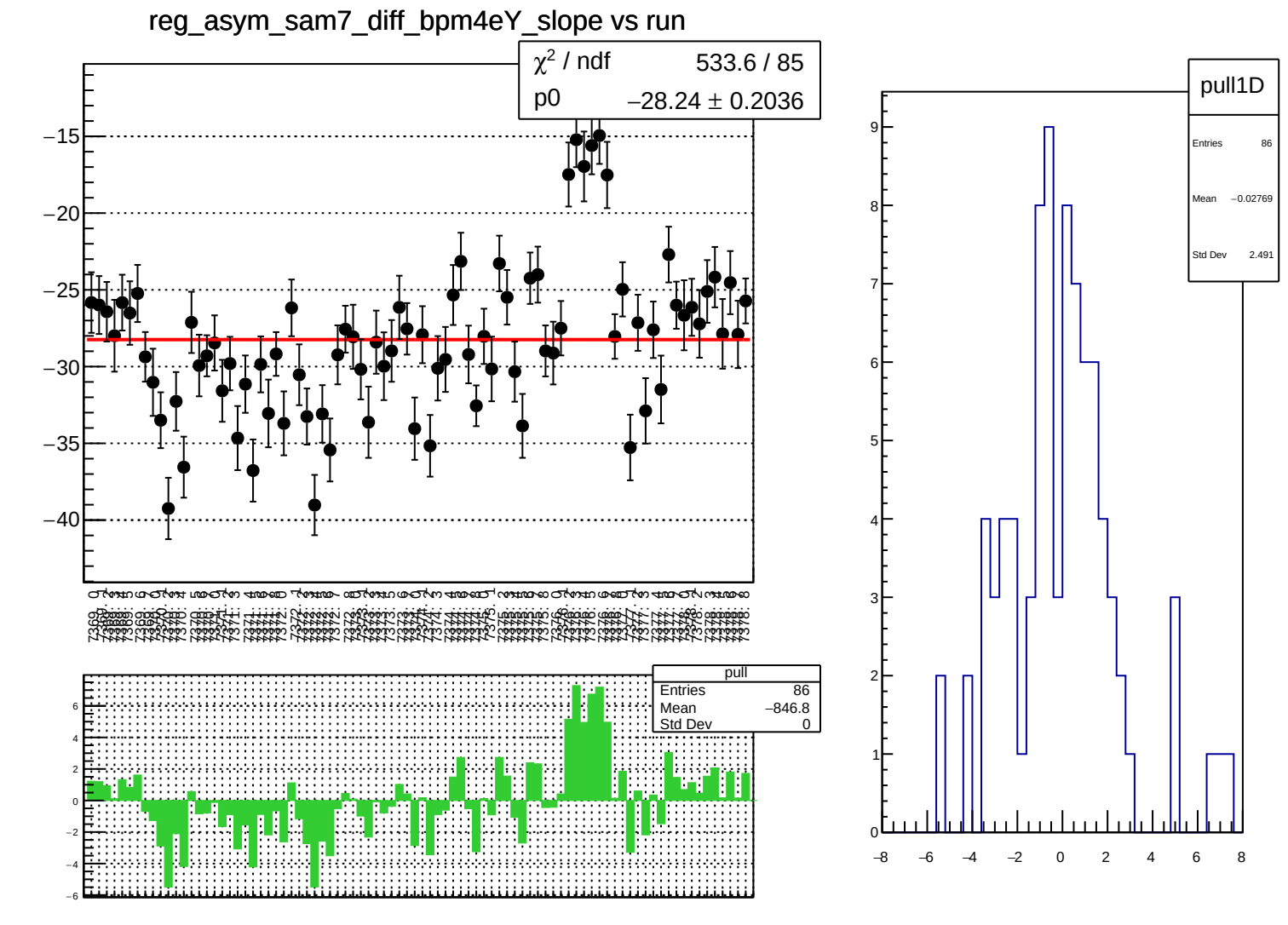

pull1D
Entries 86
Mean −0.4037
Std Dev 2.262

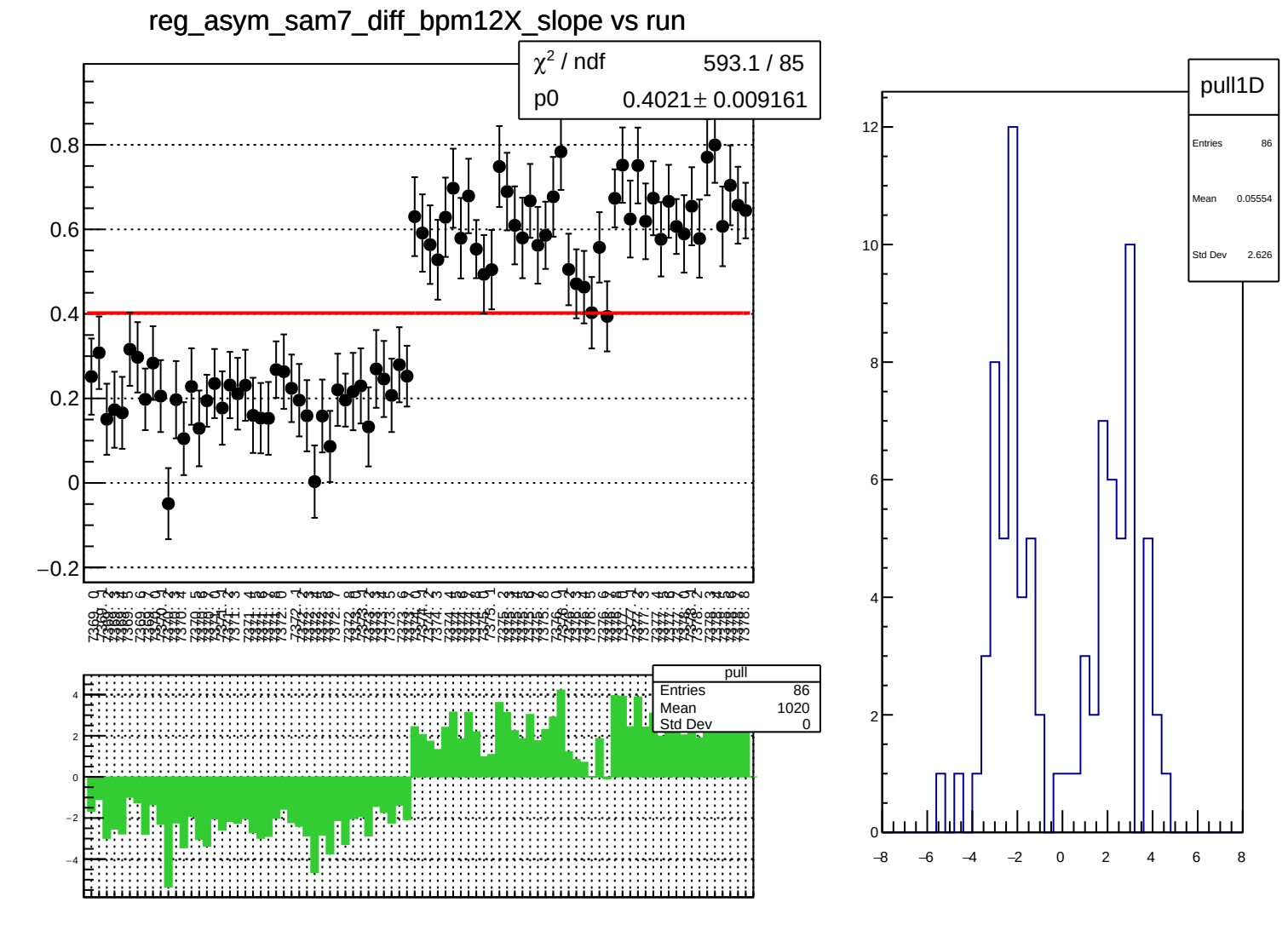

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 542.5 / 85
p0 21.7 ± 0.1914
pull
Entries 86
Mean −226.2
Std Dev 0

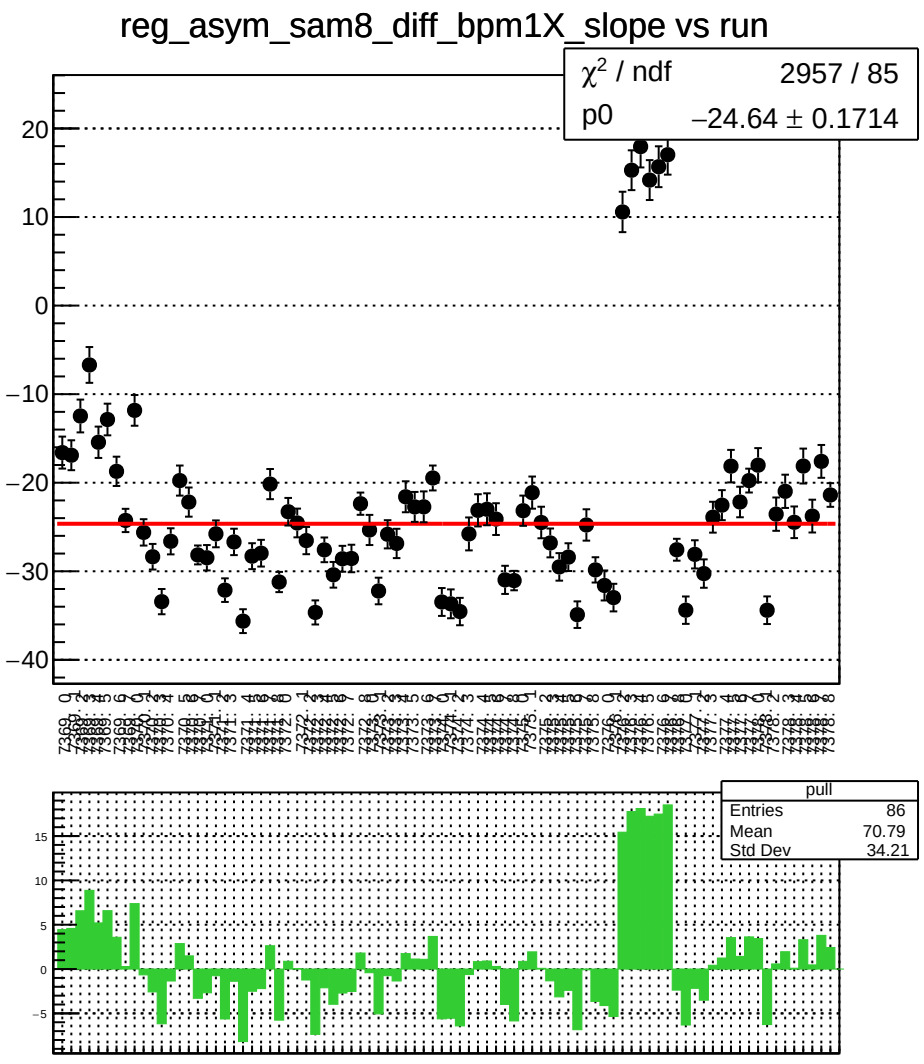

pull1D
Entries 86
Mean 0.06309
Std Dev 2.511

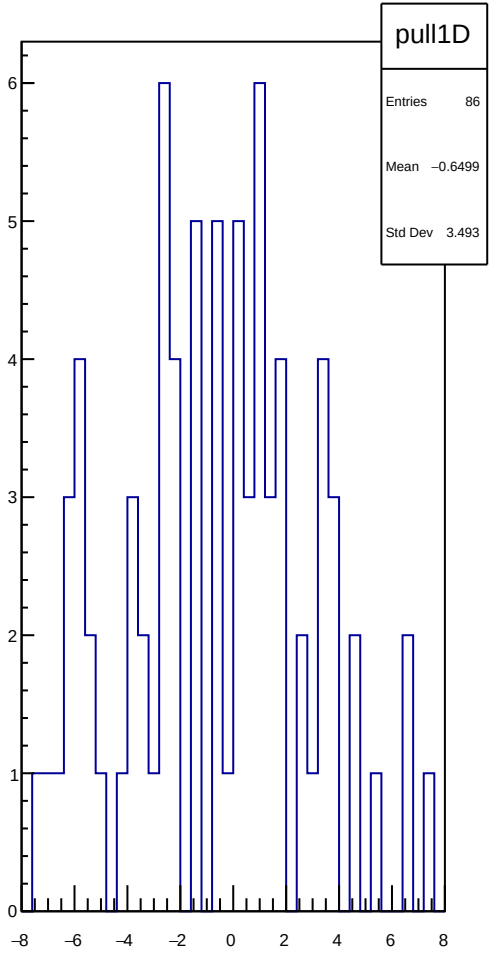

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 915 / 85
p0 −33.08 ± 0.1821
pull
Entries 86
Mean 77.86
Std Dev 22.05

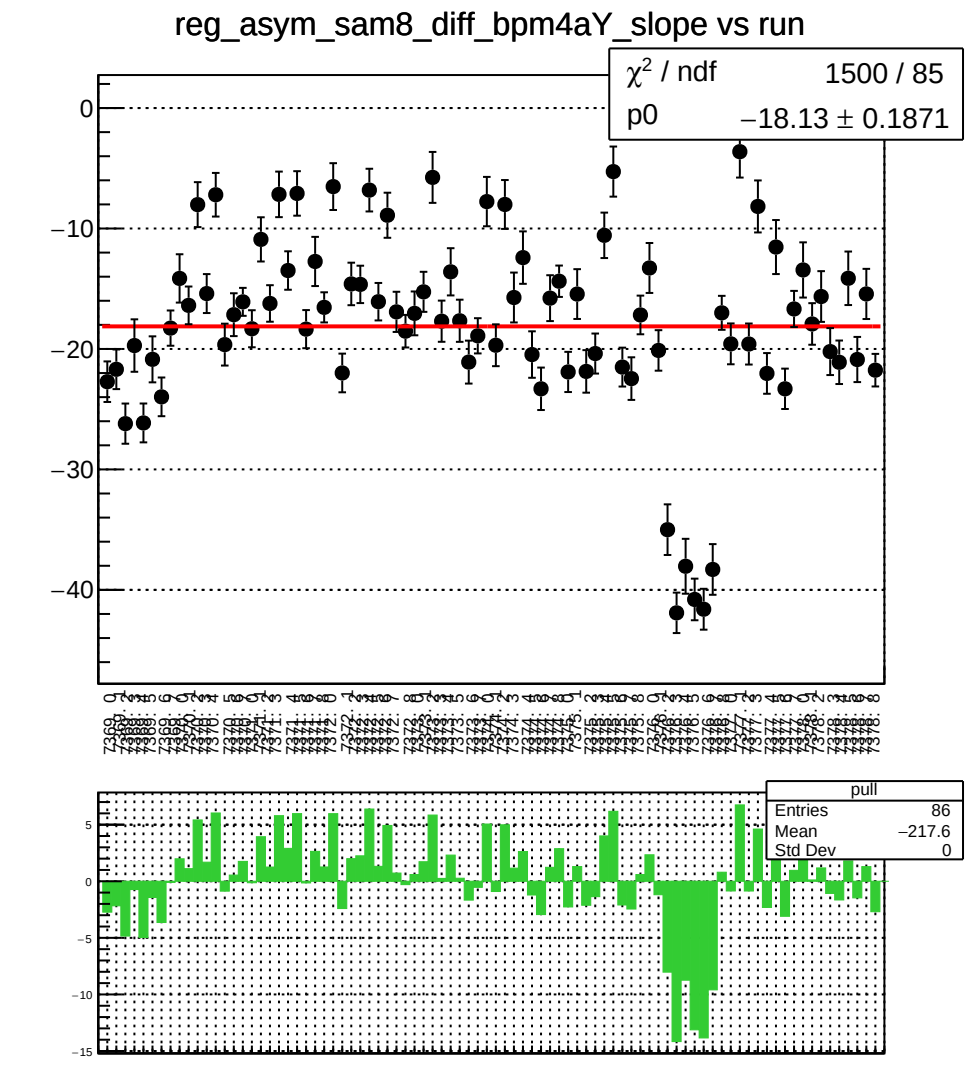

pull1D
Entries 86
Mean 0.3324
Std Dev 2.133

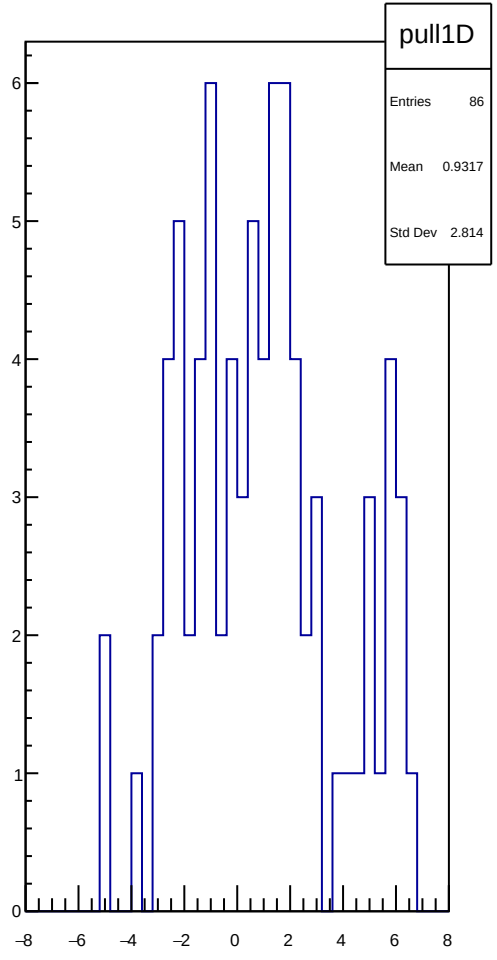

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 533.6 / 85
p0 −28.24 ± 0.2036
pull
Entries 86
Mean −846.8
Std Dev 0
pull1D
Entries 86
Mean −0.02769
Std Dev 2.491

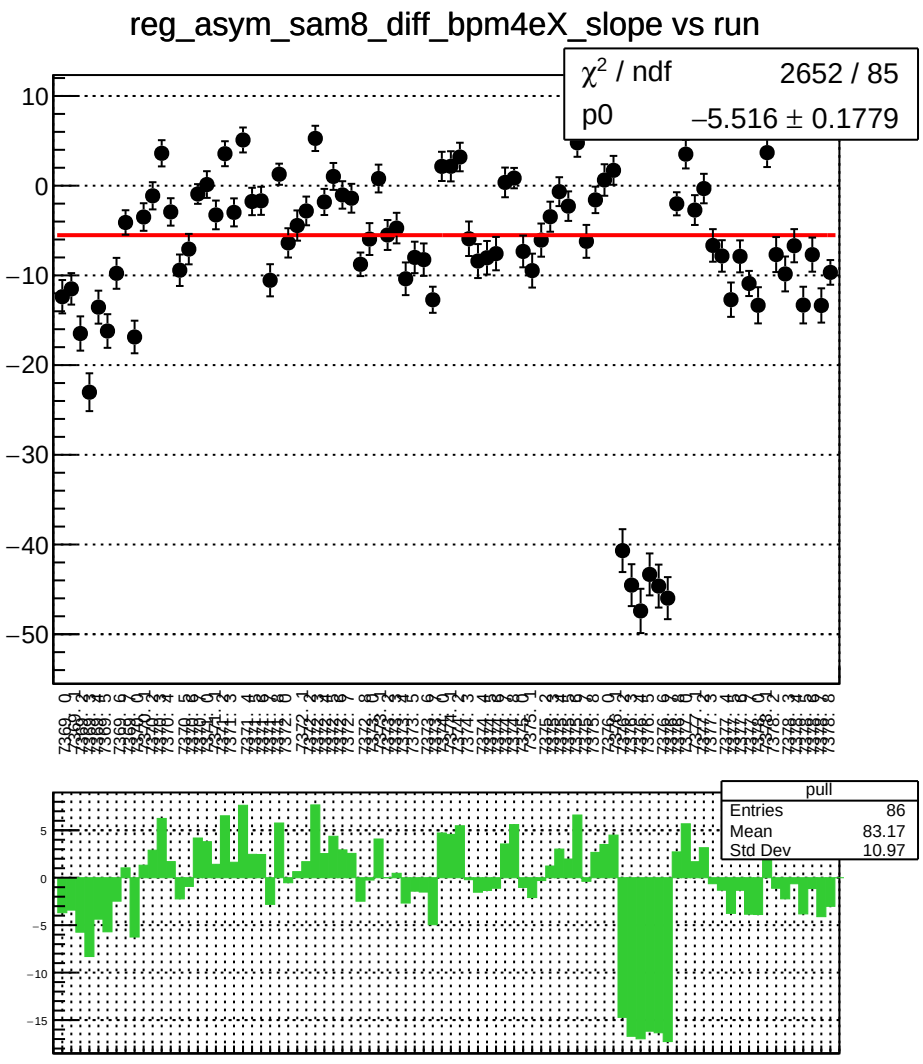

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 593.1 / 85
p0 0.4021± 0.009161
pull
Entries 86
Mean 1020
Std Dev 0
pull1D
Entries 86
Mean 0.05554
Std Dev 2.626

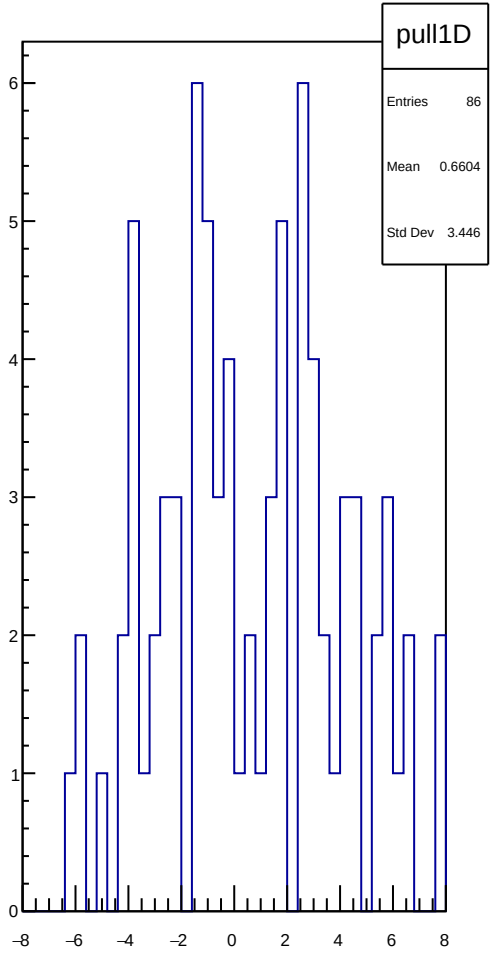

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 2957 / 85
p0 −24.64 ± 0.1714
pull
Entries 86
Mean 70.79
Std Dev 34.21

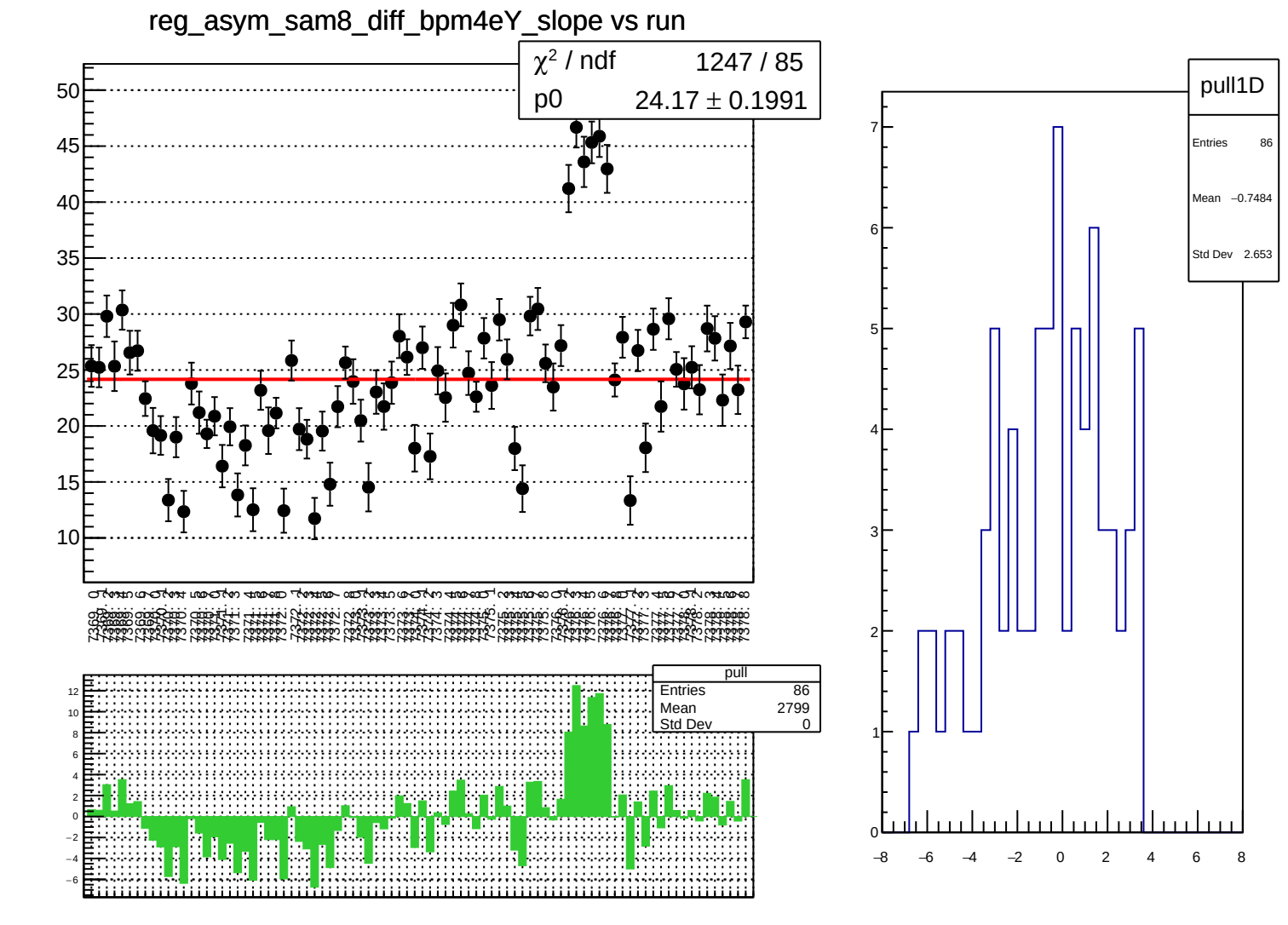

pull1D
Entries 86
Mean −0.6499
Std Dev 3.493

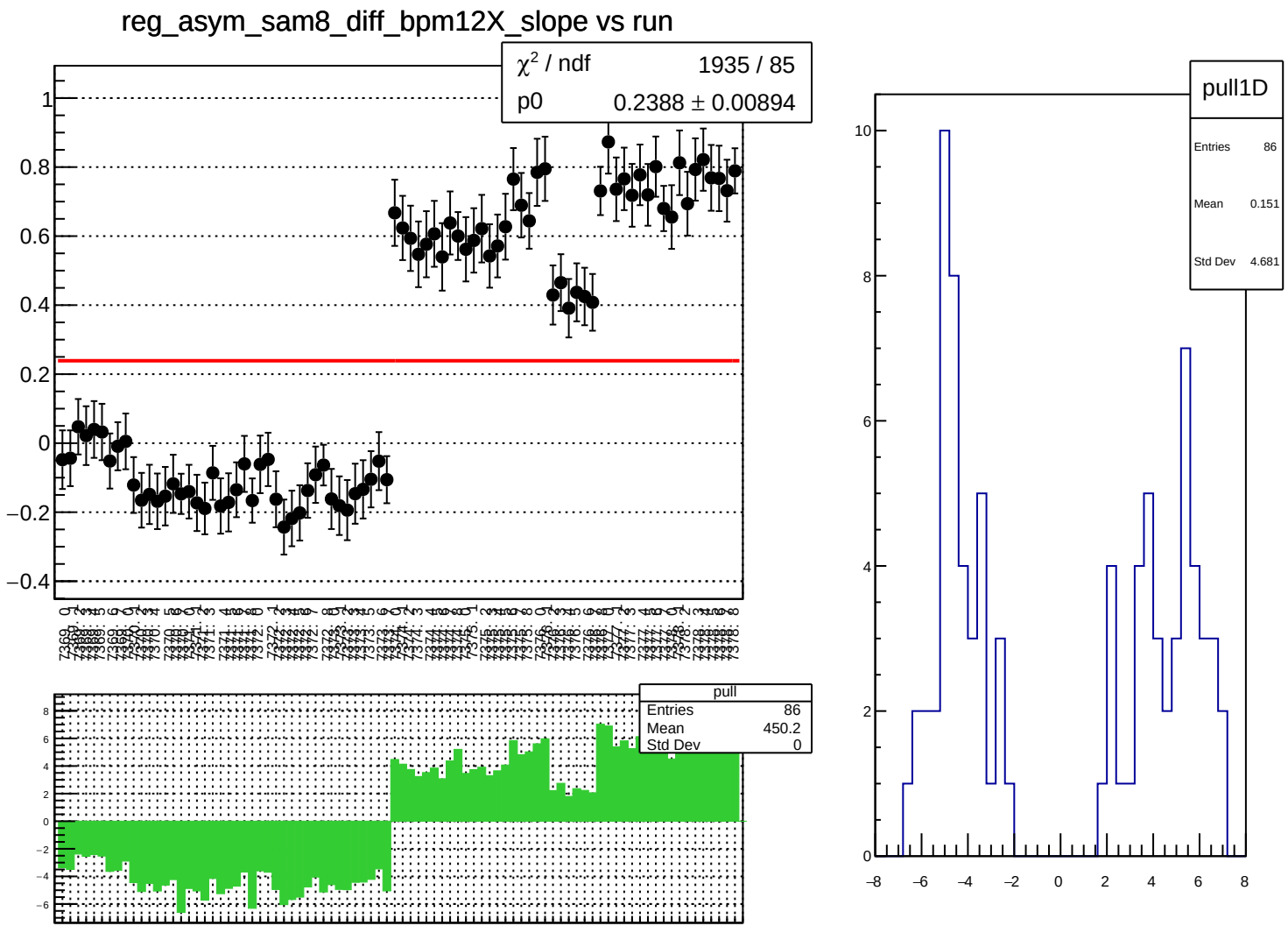

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 1500 / 85
p0 −18.13 ± 0.1871
pull
Entries 86
Mean −217.6
Std Dev 0

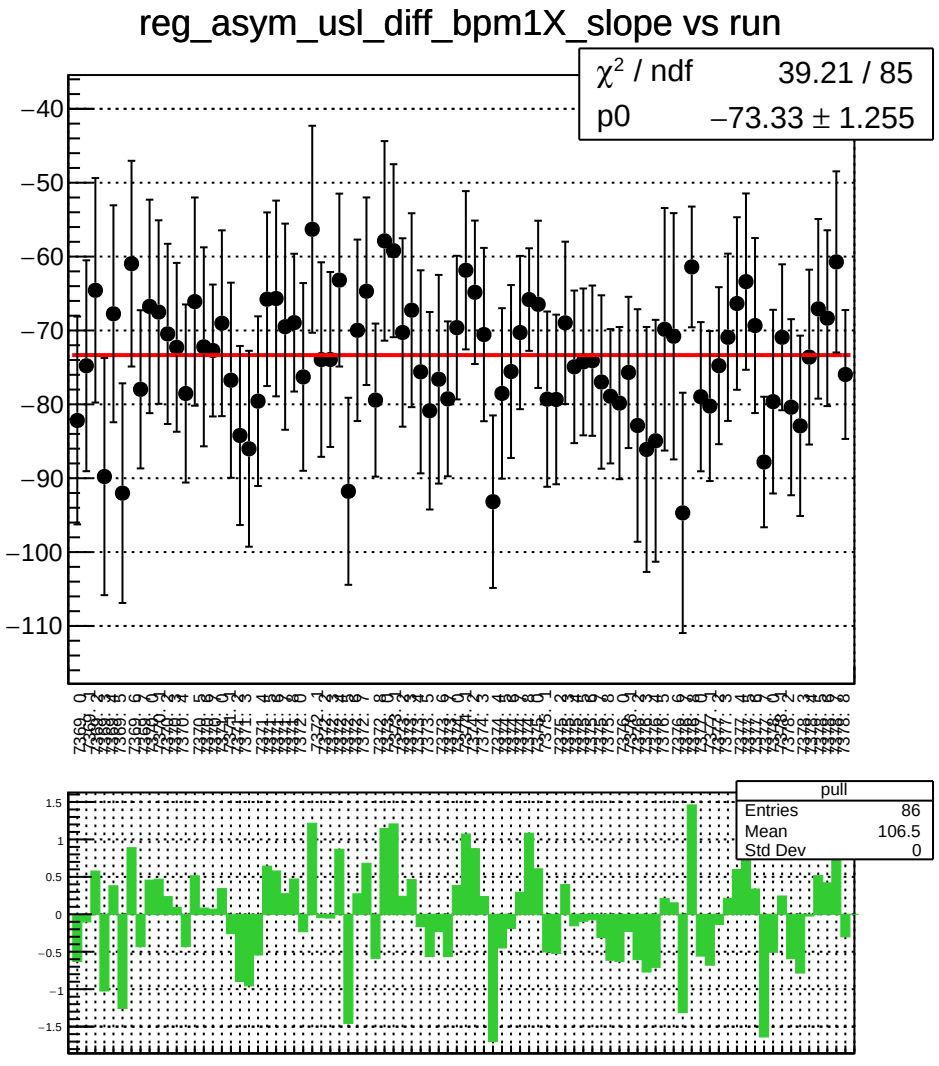

pull1D
Entries 86
Mean 0.9317
Std Dev 2.814

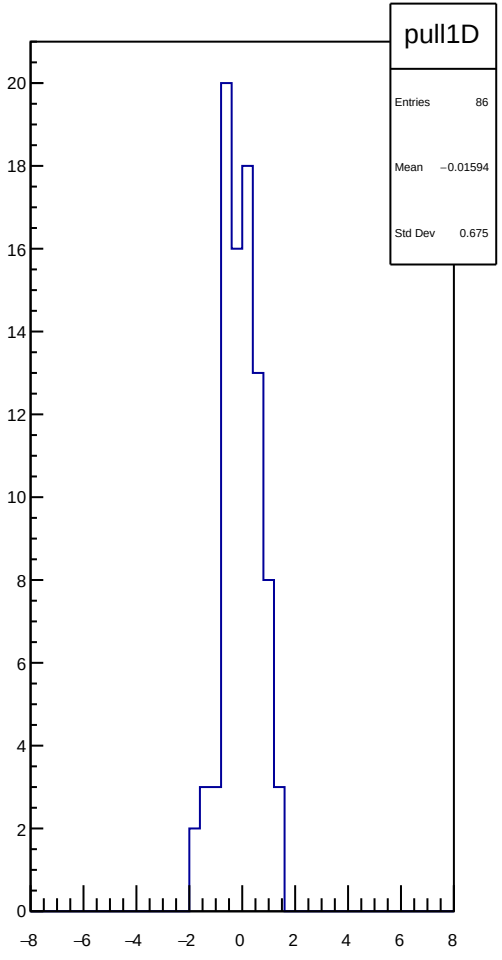

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 2652 / 85
p0 −5.516 ± 0.1779
pull
Entries 86
Mean 83.17
Std Dev 10.97

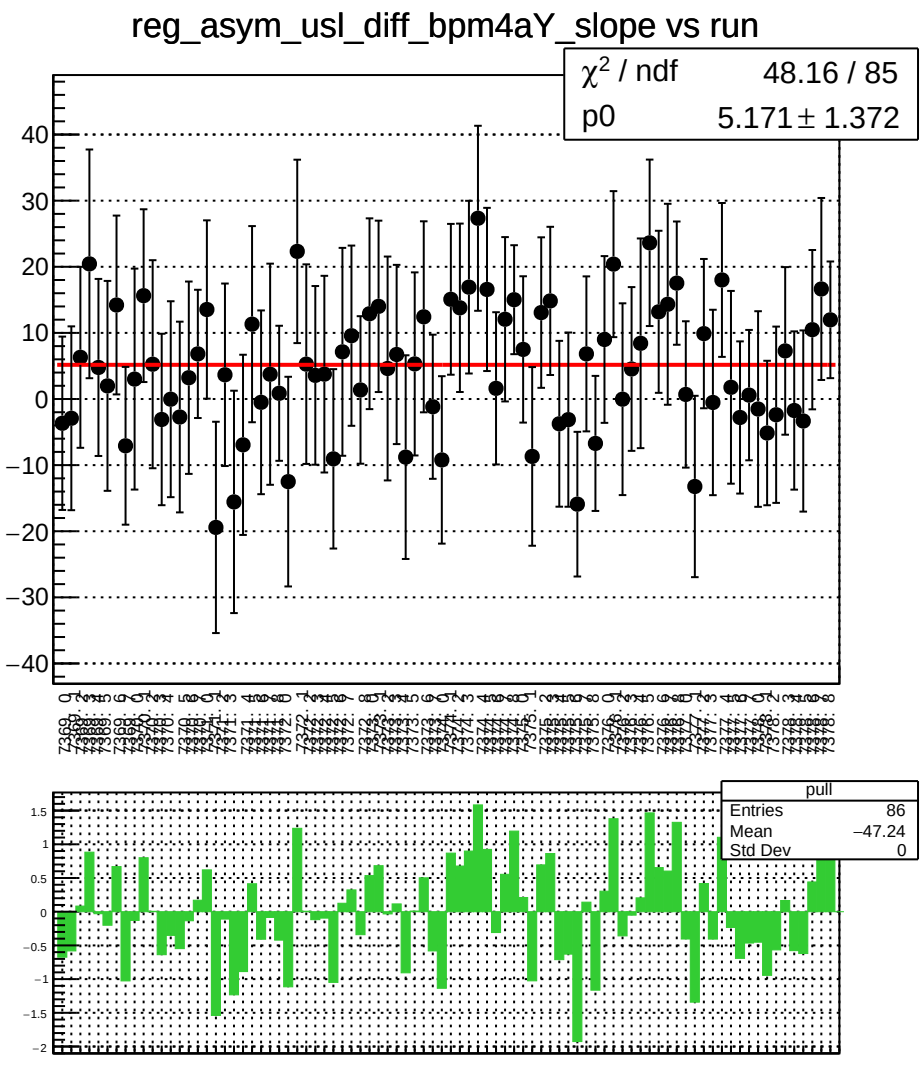

pull1D
Entries 86
Mean 0.6604
Std Dev 3.446

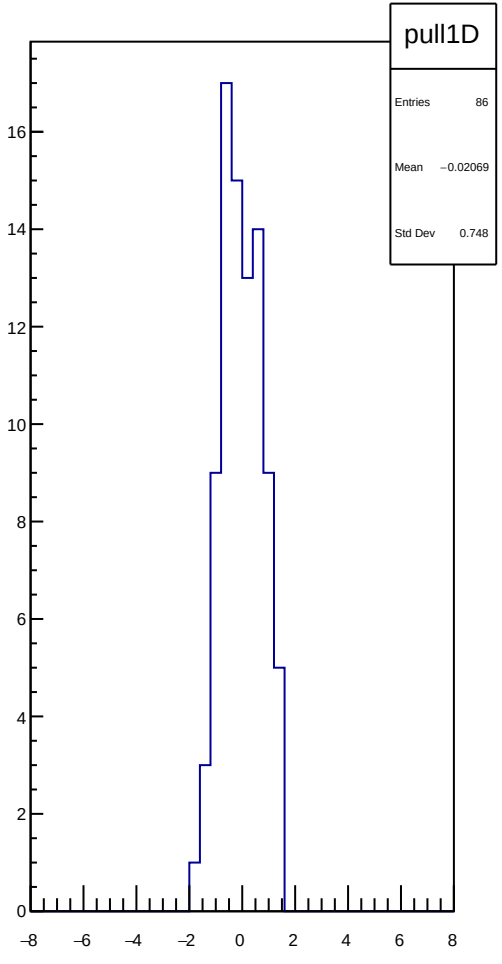

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 1247 / 85
p0 24.17 ± 0.1991
pull
Entries 86
Mean 2799
Std Dev 0
pull1D
Entries 86
Mean −0.7484
Std Dev 2.653

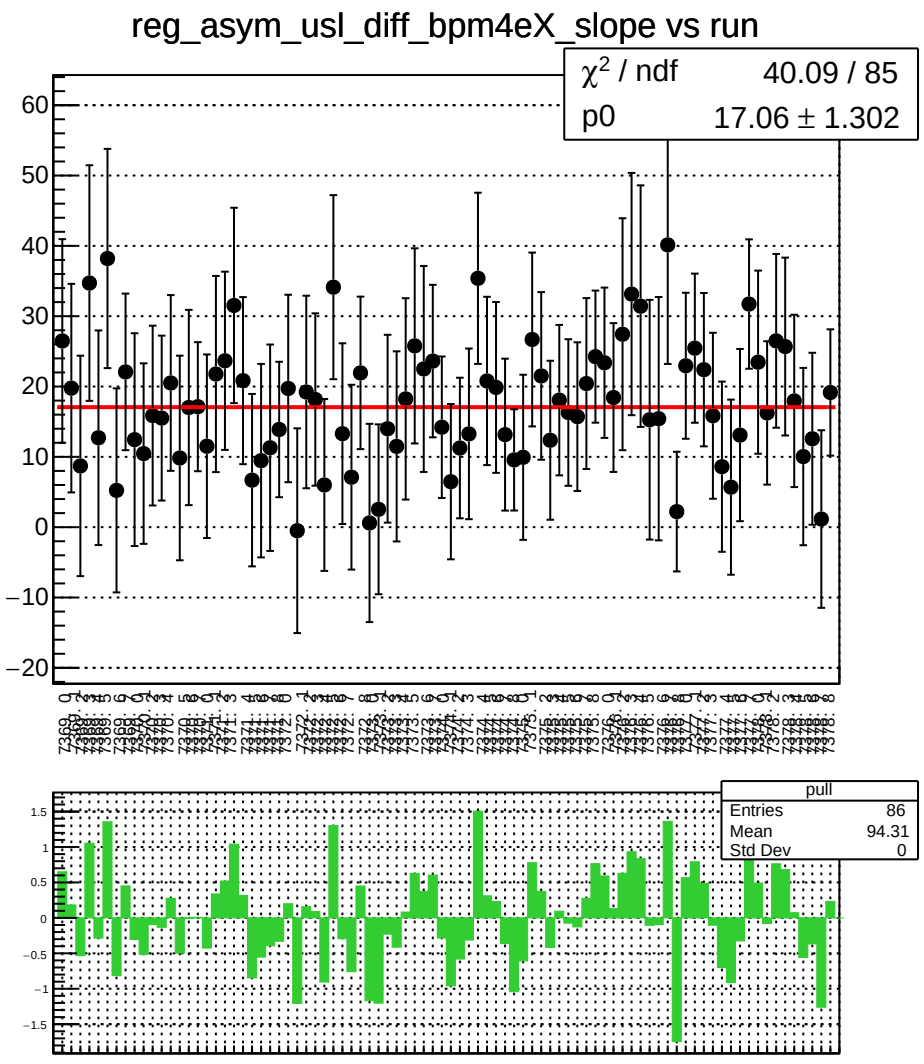

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 1935 / 85
p0 0.2388 ± 0.00894
pull
Entries 86
Mean 450.2
Std Dev 0
pull1D
Entries 86
Mean 0.151
Std Dev 4.681

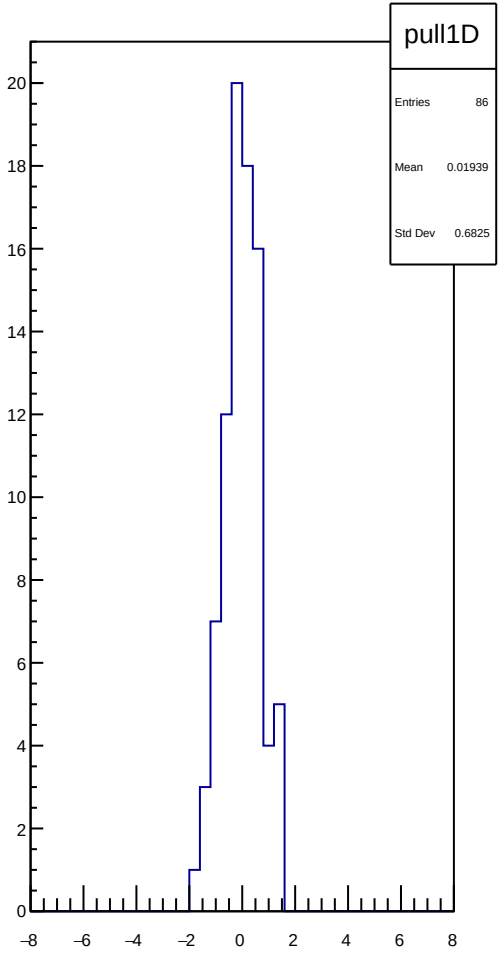

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 39.21 / 85
p0 −73.33 ± 1.255
pull
Entries 86
Mean 106.5
Std Dev 0

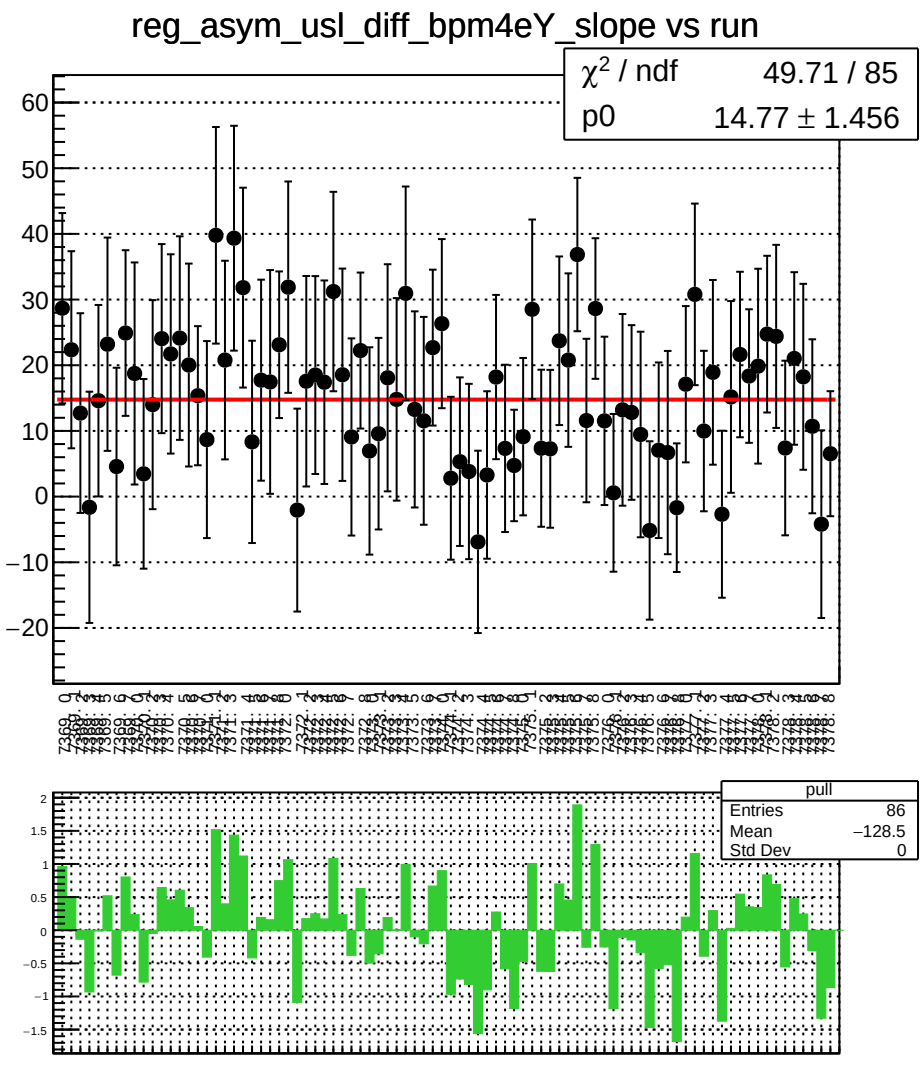

pull1D
Entries 86
Mean −0.01594
Std Dev 0.675

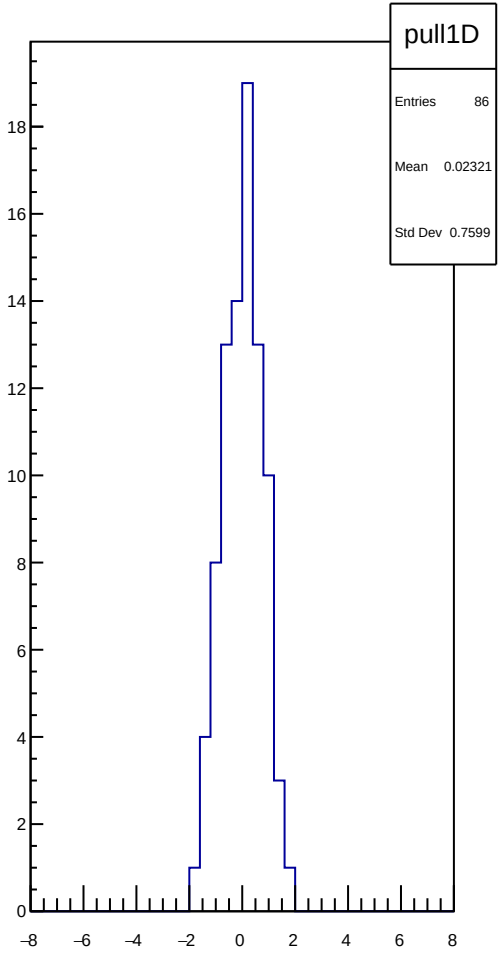

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 48.16 / 85
p0 5.171 ± 1.372
pull
Entries 86
Mean −47.24
Std Dev 0

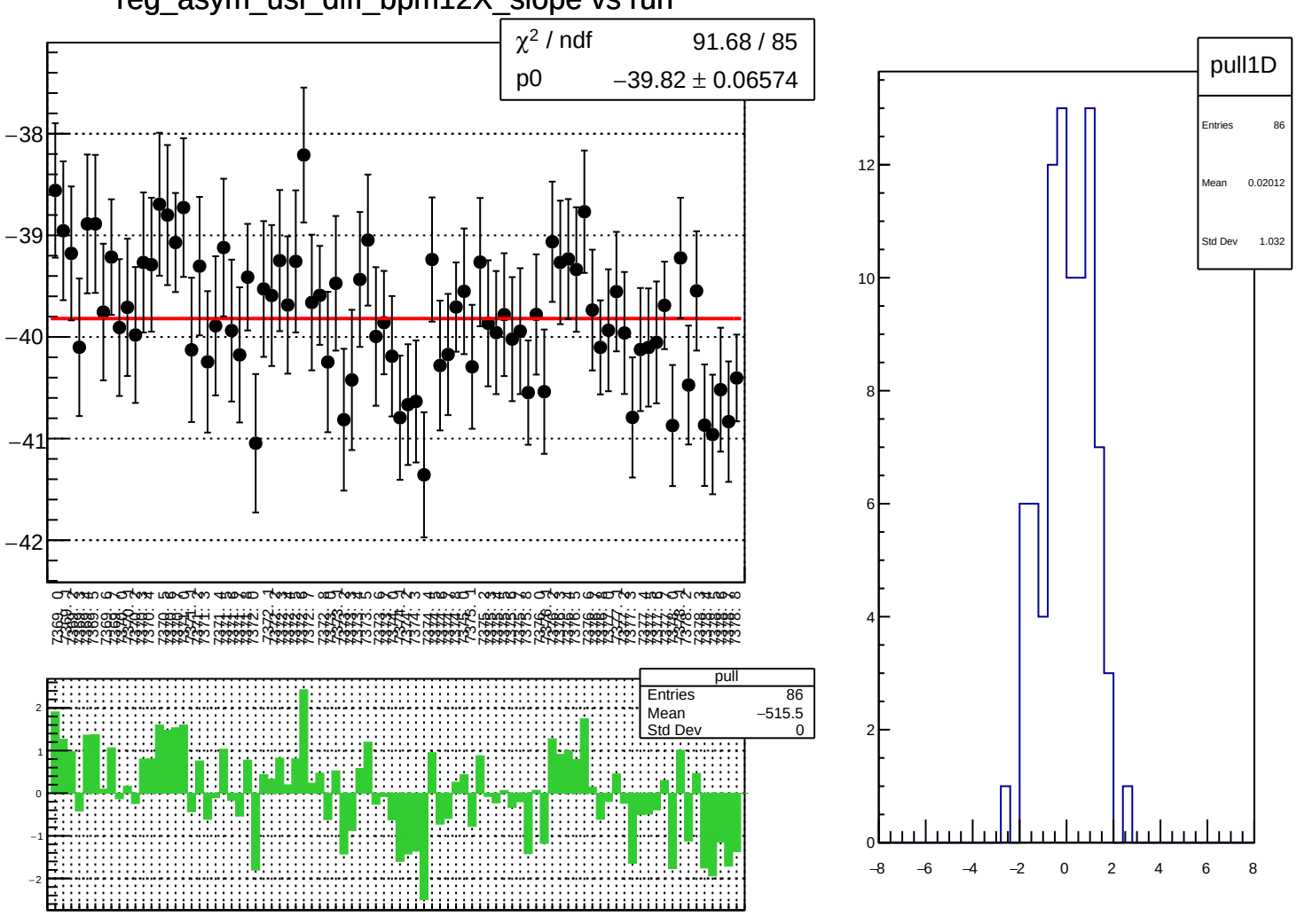

pull1D
Entries 86
Mean −0.02069
Std Dev 0.748

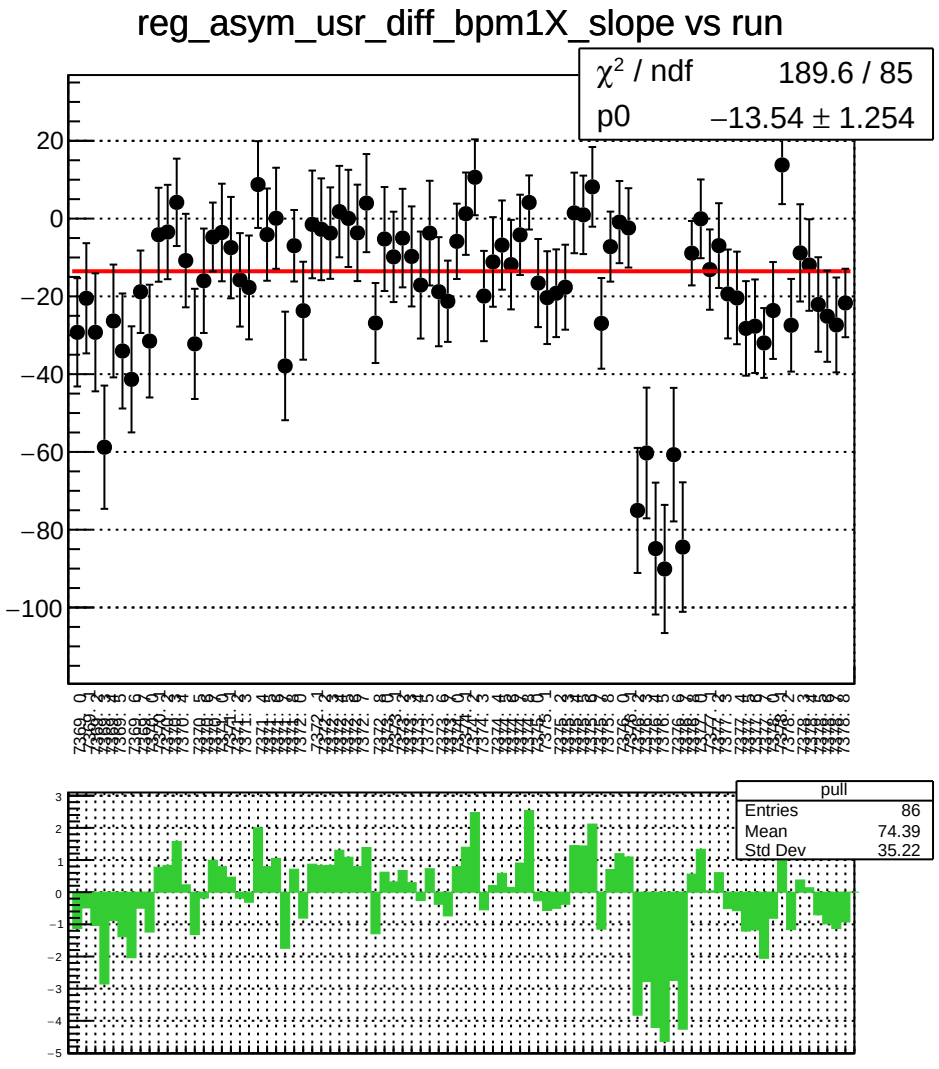

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 40.09 / 85
p0 17.06 ± 1.302
pull
Entries 86
Mean 94.31
Std Dev 0

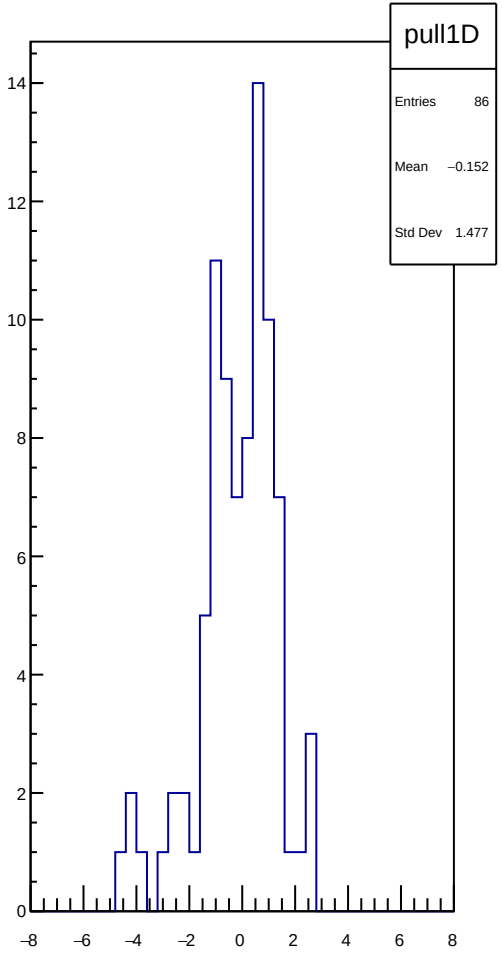

pull1D
Entries 86
Mean 0.01939
Std Dev 0.6825

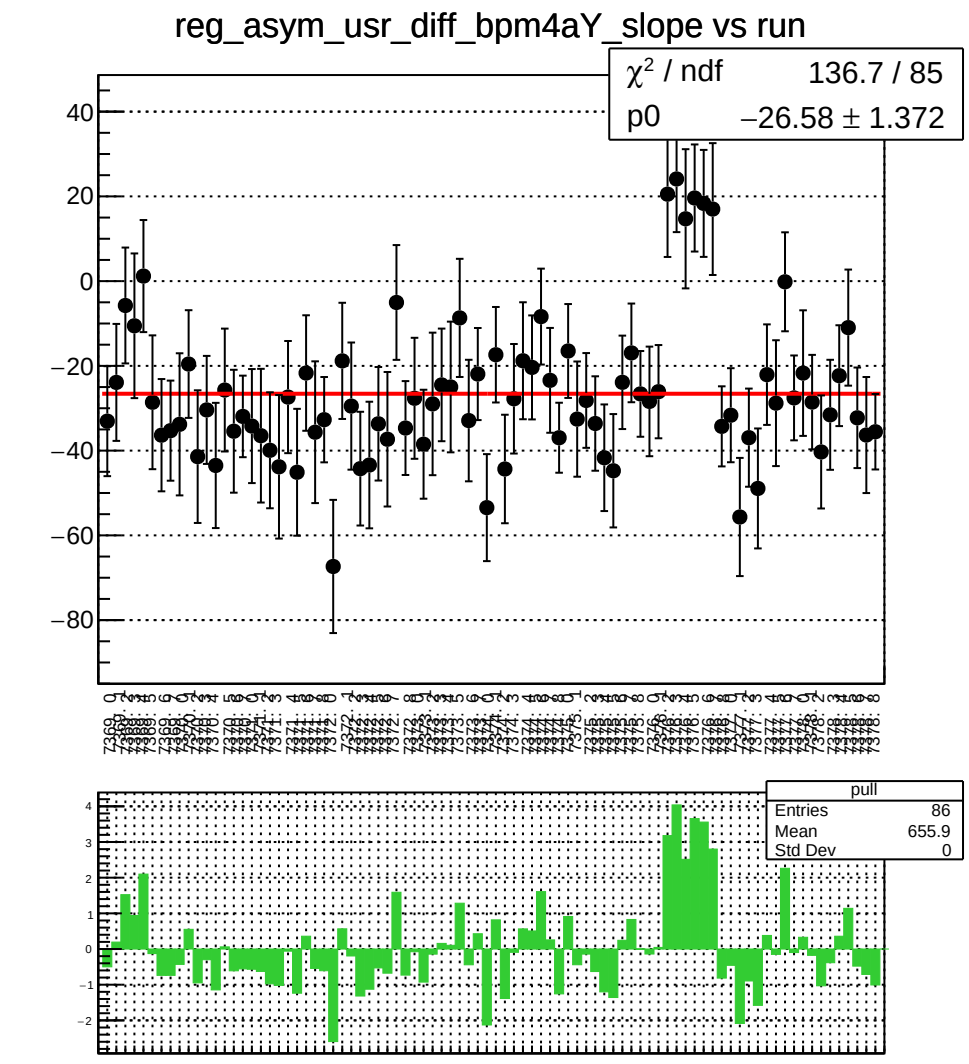

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 49.71 / 85
p0 14.77 ± 1.456
pull
Entries 86
Mean −128.5
Std Dev 0

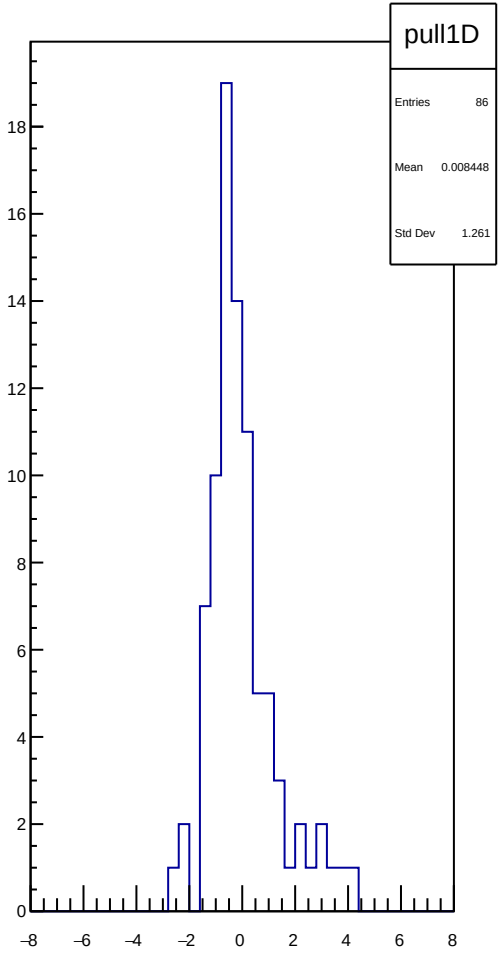

pull1D
Entries 86
Mean 0.02321
Std Dev 0.7599

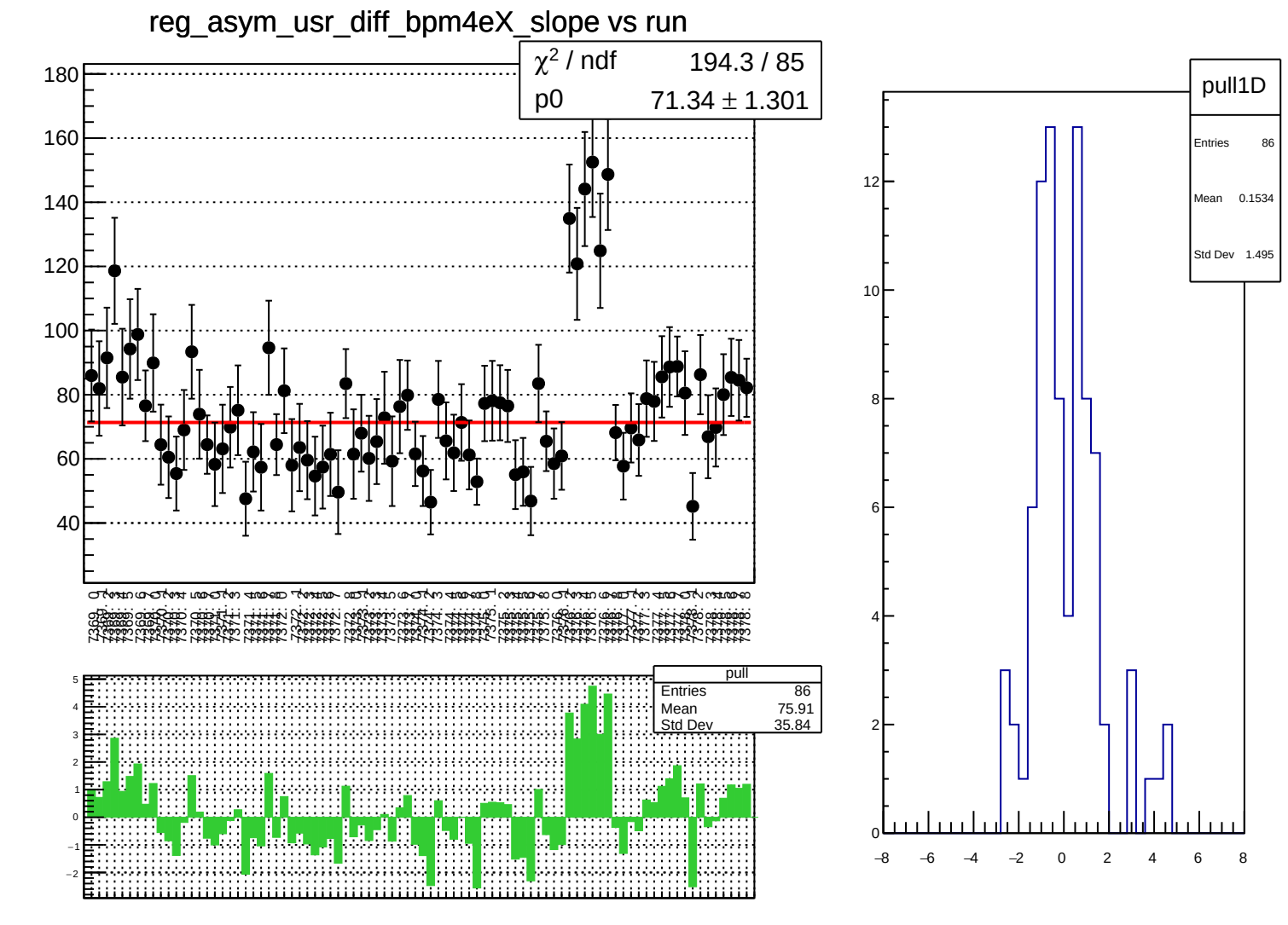

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 91.68 / 85
p0 −39.82 ± 0.06574
pull
Entries 86
Mean −515.5
Std Dev 0
pull1D
Entries 86
Mean 0.02012
Std Dev 1.032

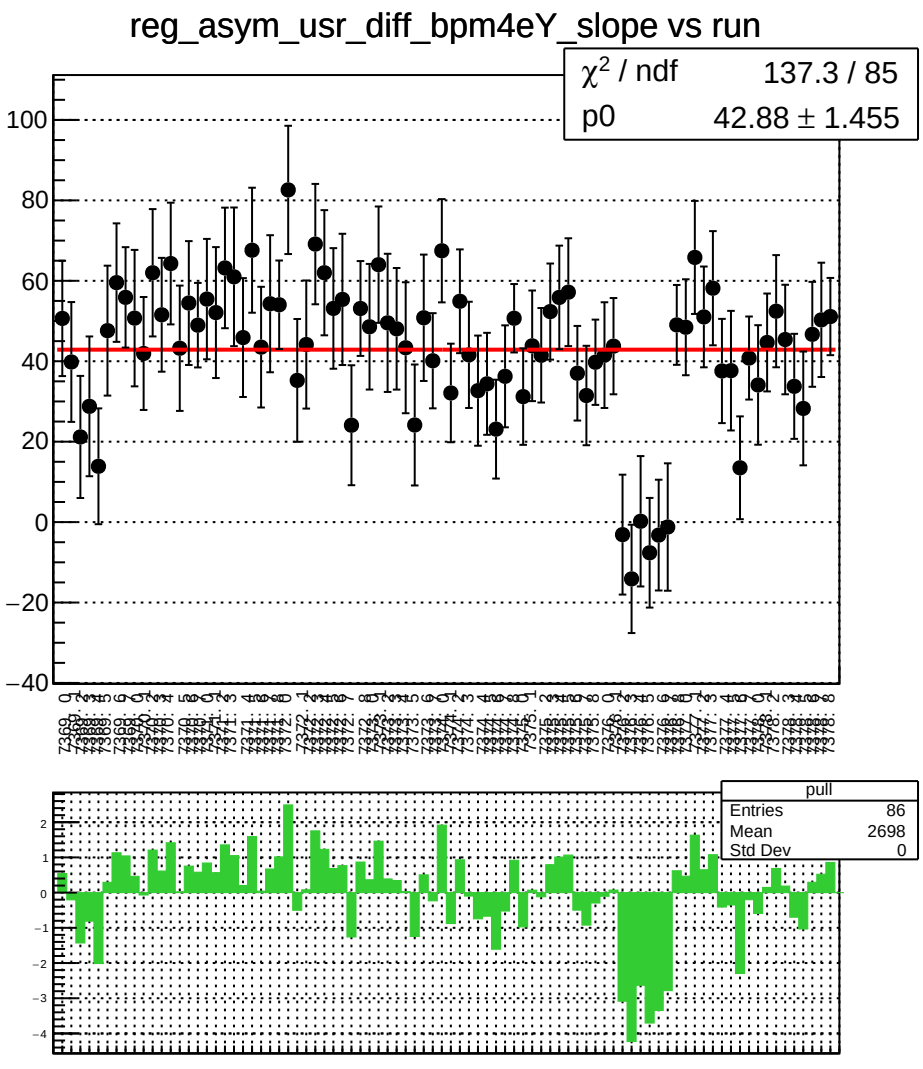

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 189.6 / 85
p0 −13.54 ± 1.254
pull
Entries 86
Mean 74.39
Std Dev 35.22

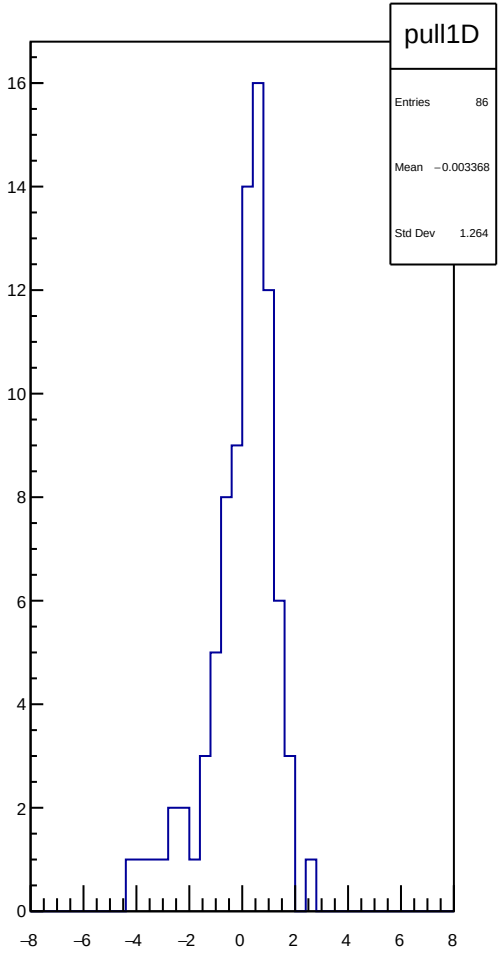

pull1D
Entries 86
Mean −0.152
Std Dev 1.477

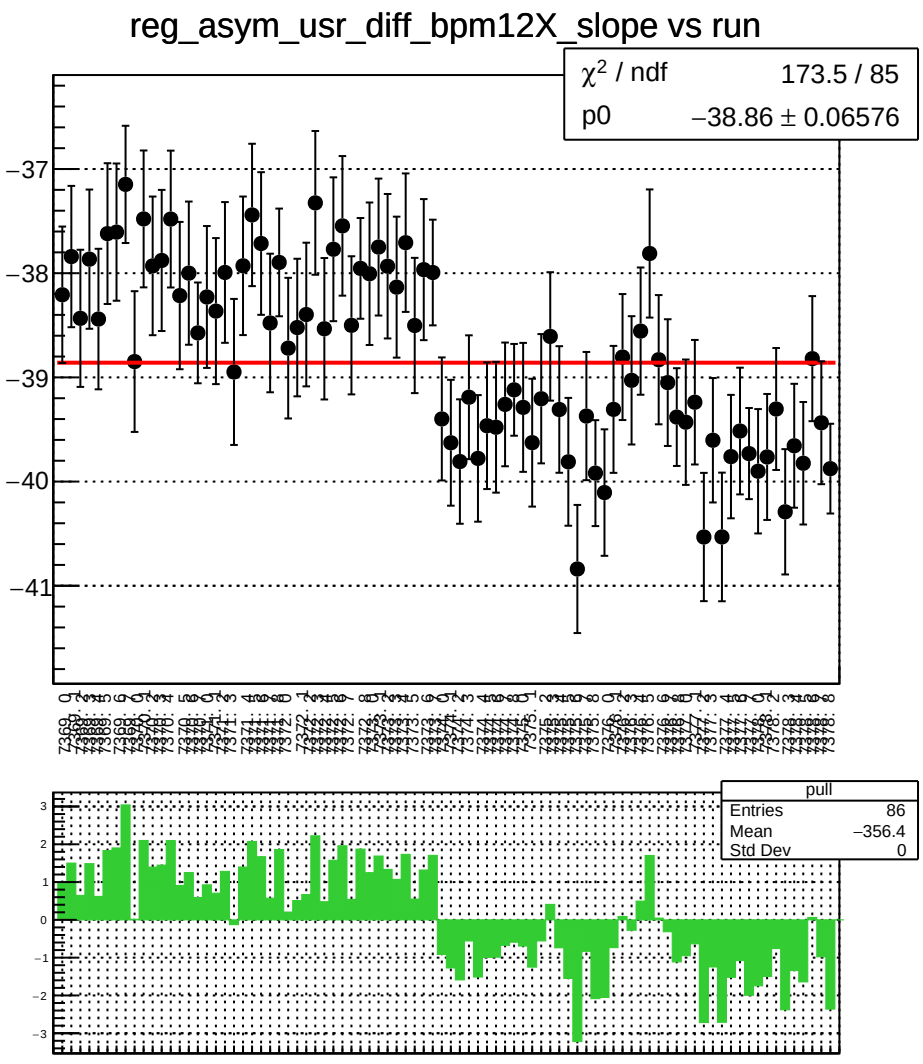

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 136.7 / 85
p0 −26.58 ± 1.372
pull
Entries 86
Mean 655.9
Std Dev 0

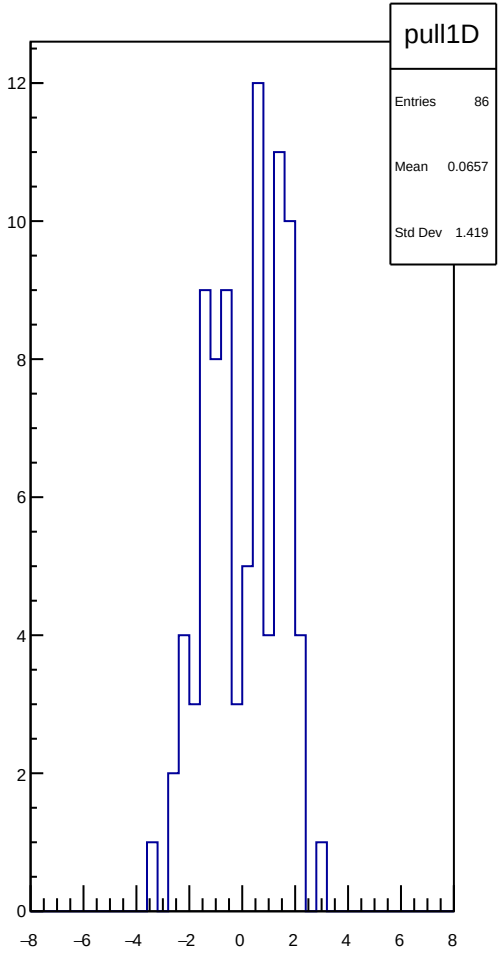

pull1D
Entries 86
Mean 0.008448
Std Dev 1.261

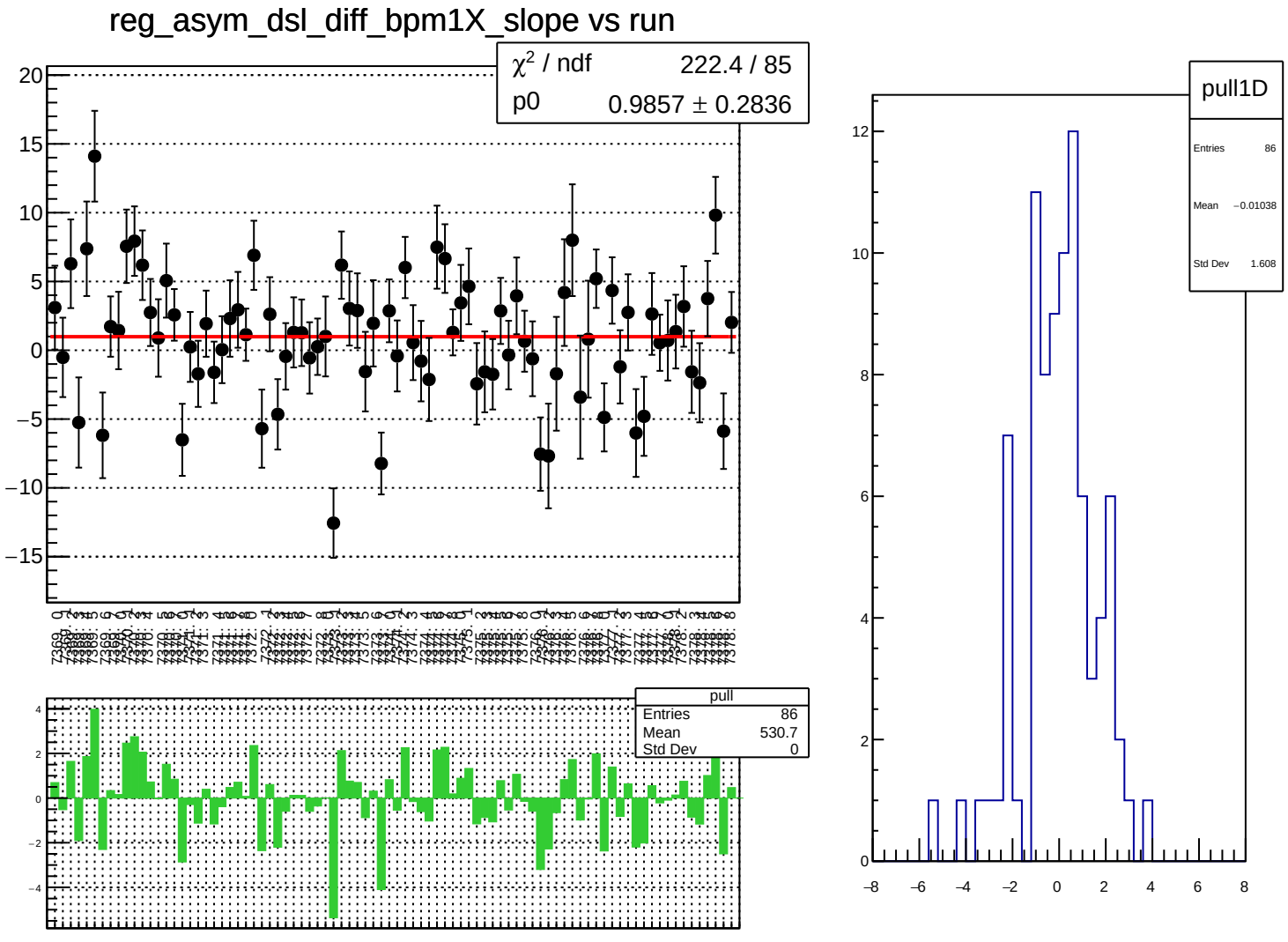

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 194.3 / 85
p0 71.34 ± 1.301
pull
Entries 86
Mean 75.91
Std Dev 35.84
pull1D
Entries 86
Mean 0.1534
Std Dev 1.495

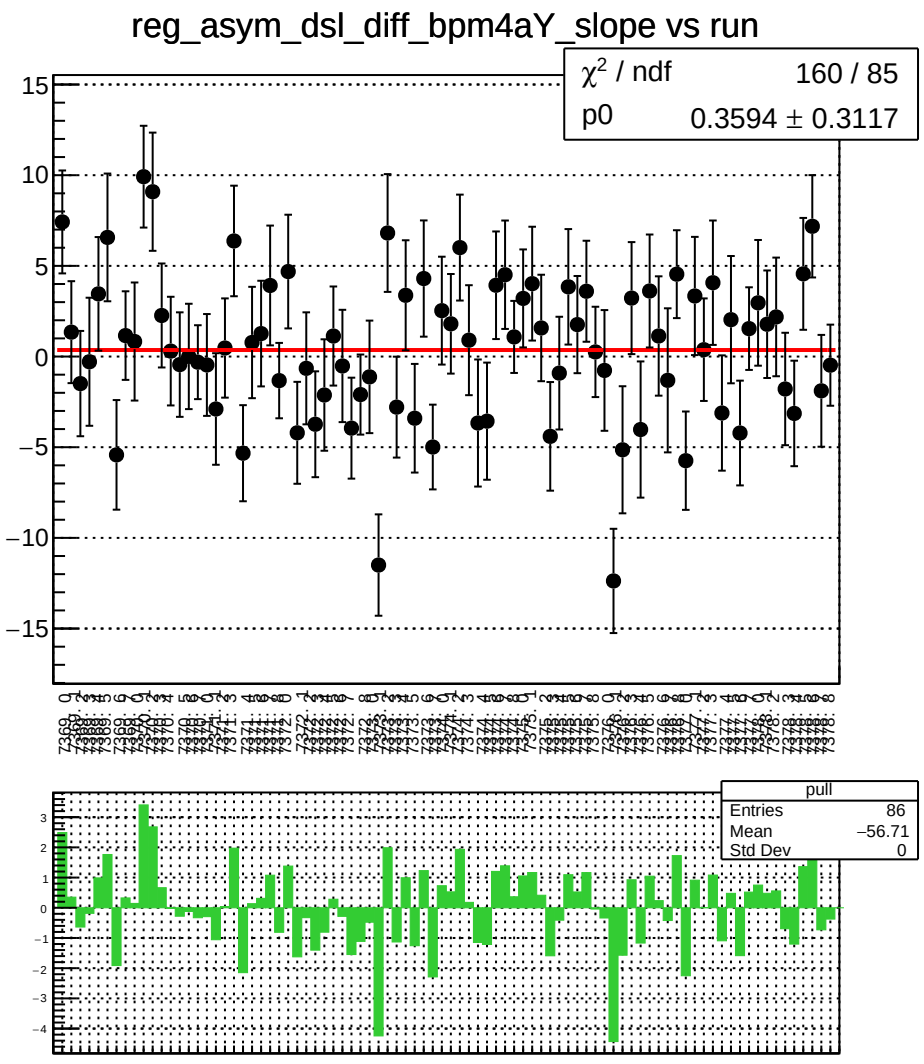

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 137.3 / 85
p0 42.88 ± 1.455
pull
Entries 86
Mean 2698
Std Dev 0

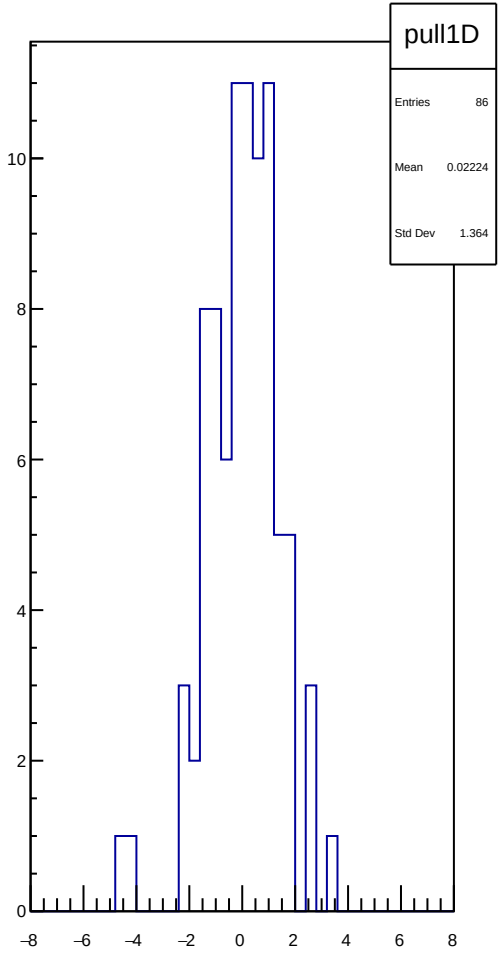

pull1D
Entries 86
Mean −0.003368
Std Dev 1.264

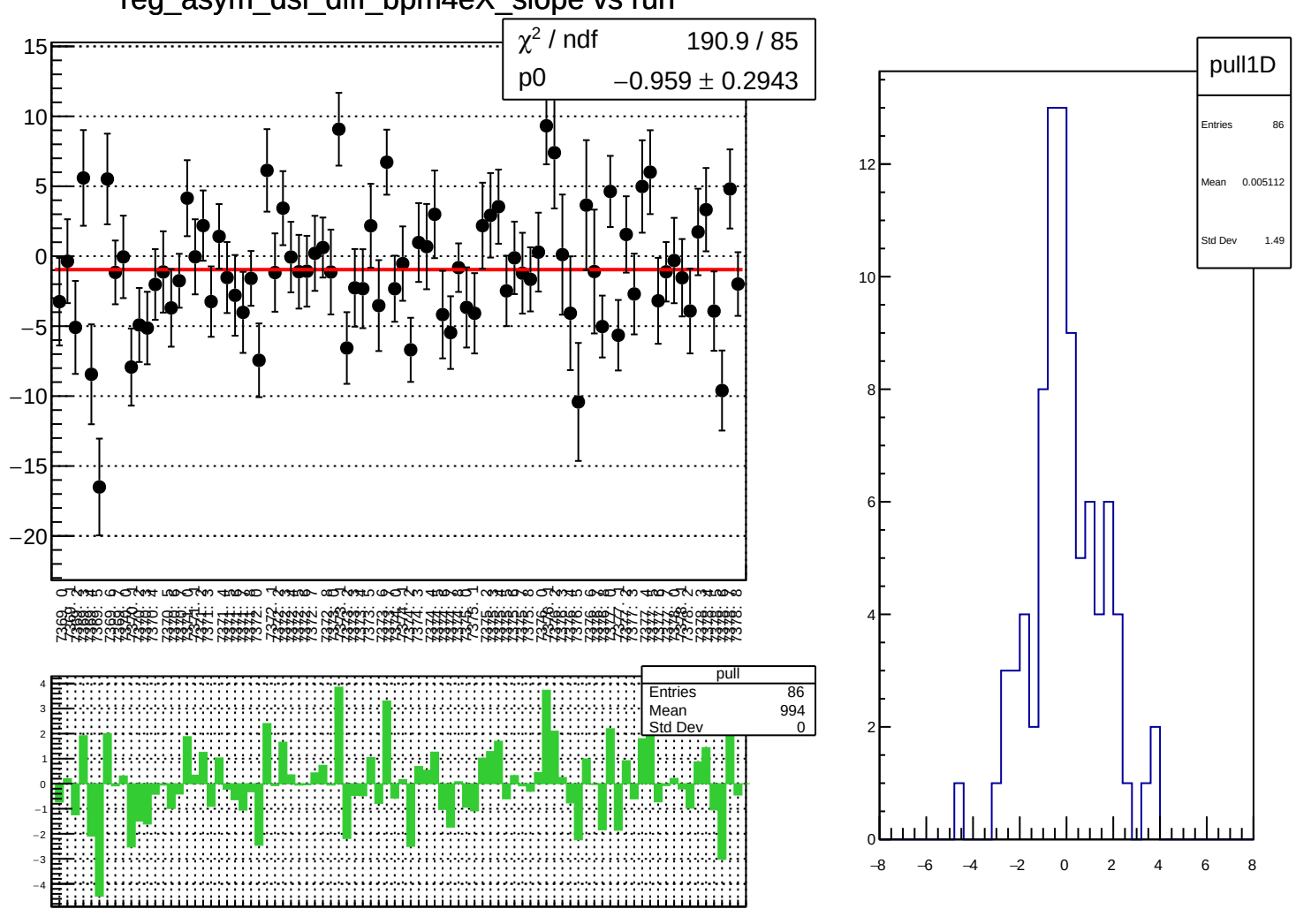

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 173.5 / 85
p0 −38.86 ± 0.06576
pull
Entries 86
Mean −356.4
Std Dev 0

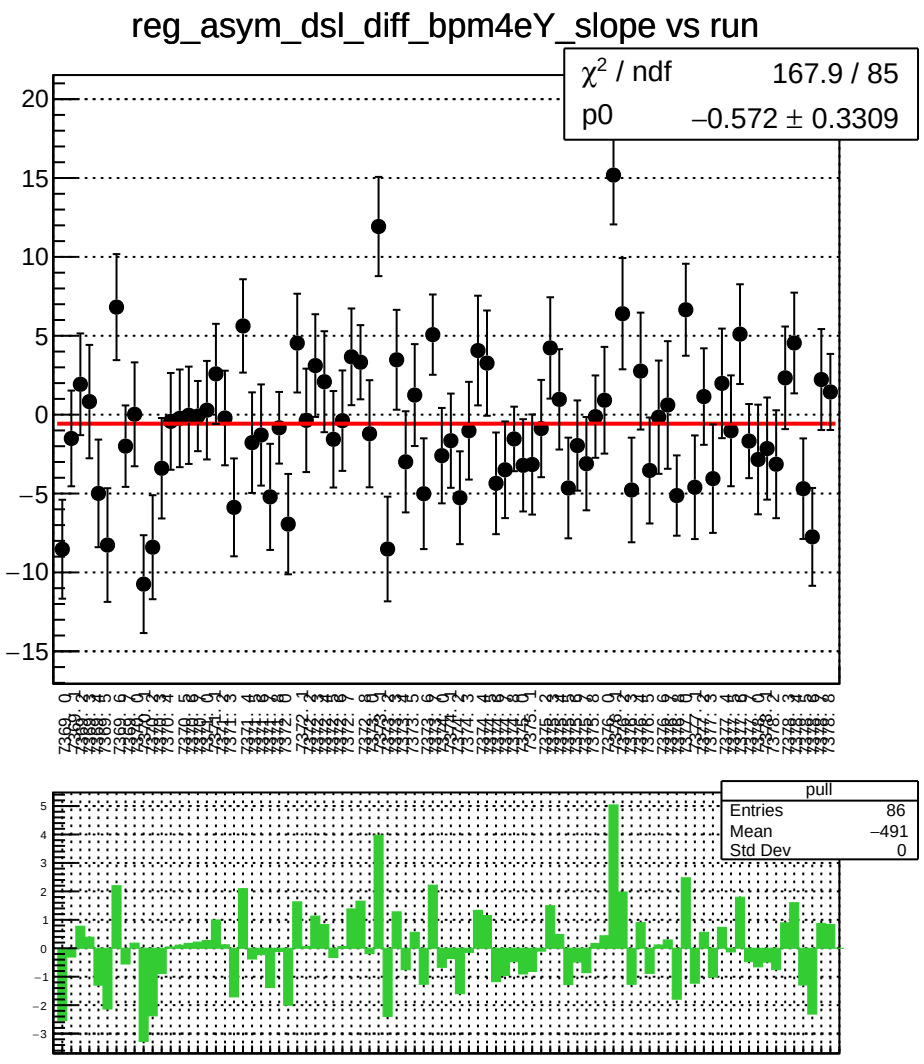

pull1D
Entries 86
Mean 0.0657
Std Dev 1.419

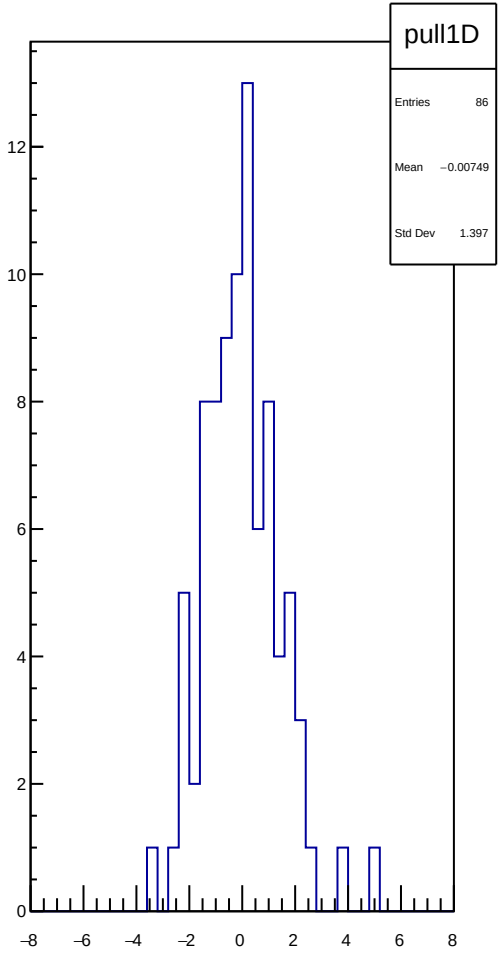

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 222.4 / 85
p0 0.9857 ± 0.2836
pull
Entries 86
Mean 530.7
Std Dev 0
pull1D
Entries 86
Mean −0.01038
Std Dev 1.608

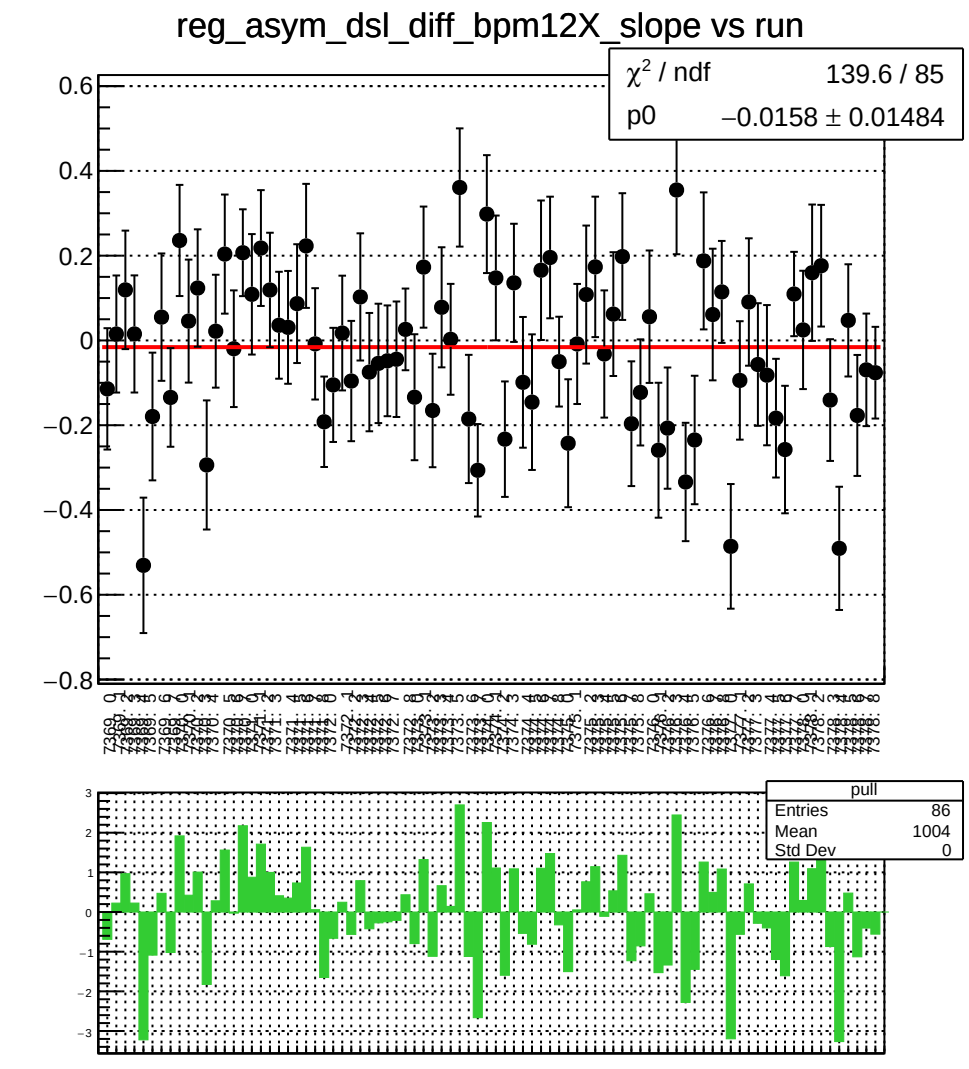

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 160 / 85
p0 0.3594 ± 0.3117
pull
Entries 86
Mean −56.71
Std Dev 0

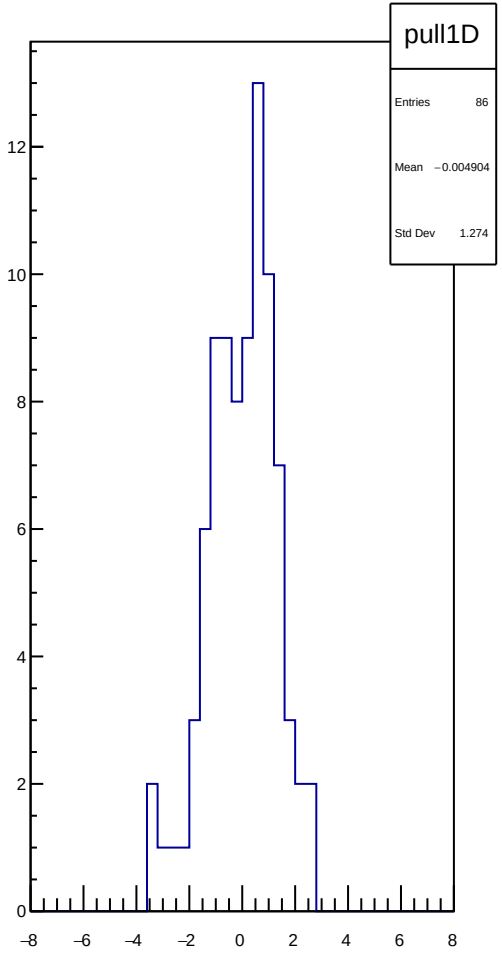

pull1D
Entries 86
Mean 0.02224
Std Dev 1.364

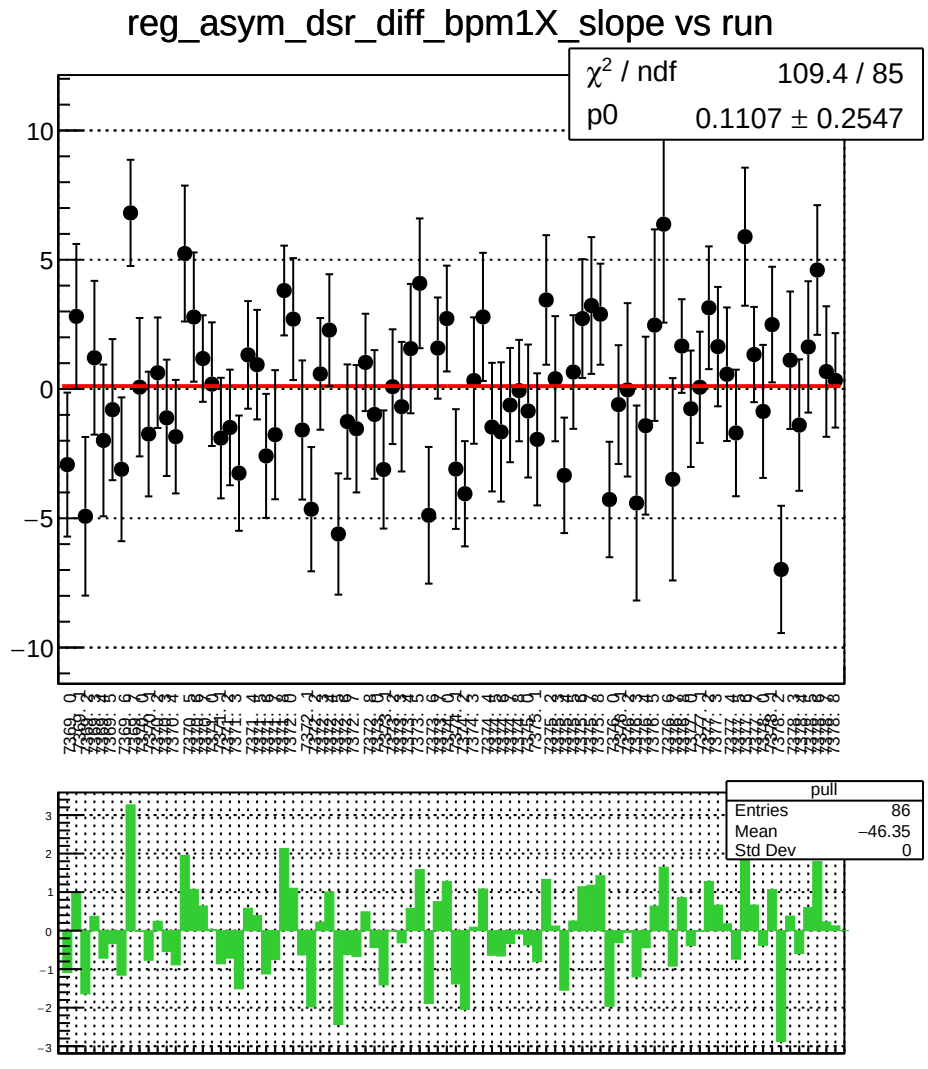

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 190.9 / 85
p0 −0.959 ± 0.2943
pull
Entries 86
Mean 994
Std Dev 0
pull1D
Entries 86
Mean 0.005112
Std Dev 1.49

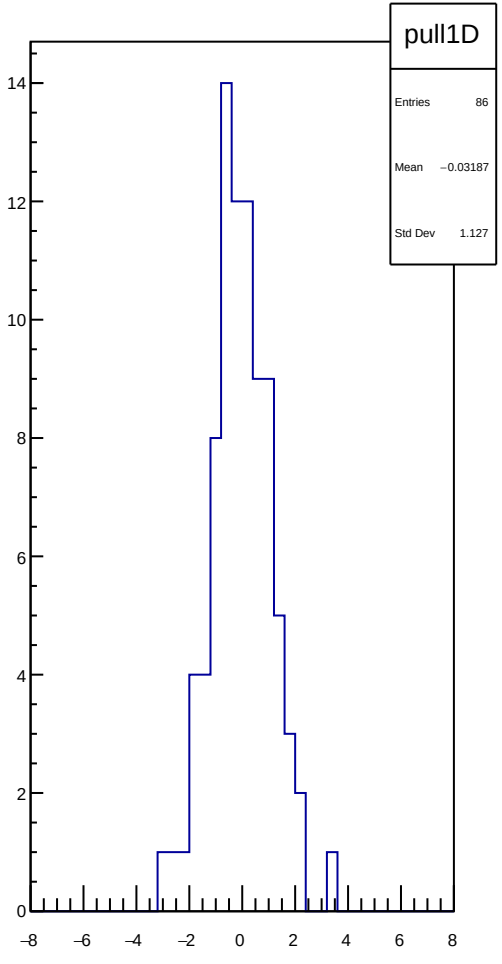

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 167.9 / 85
p0 −0.572 ± 0.3309
pull
Entries 86
Mean −491
Std Dev 0

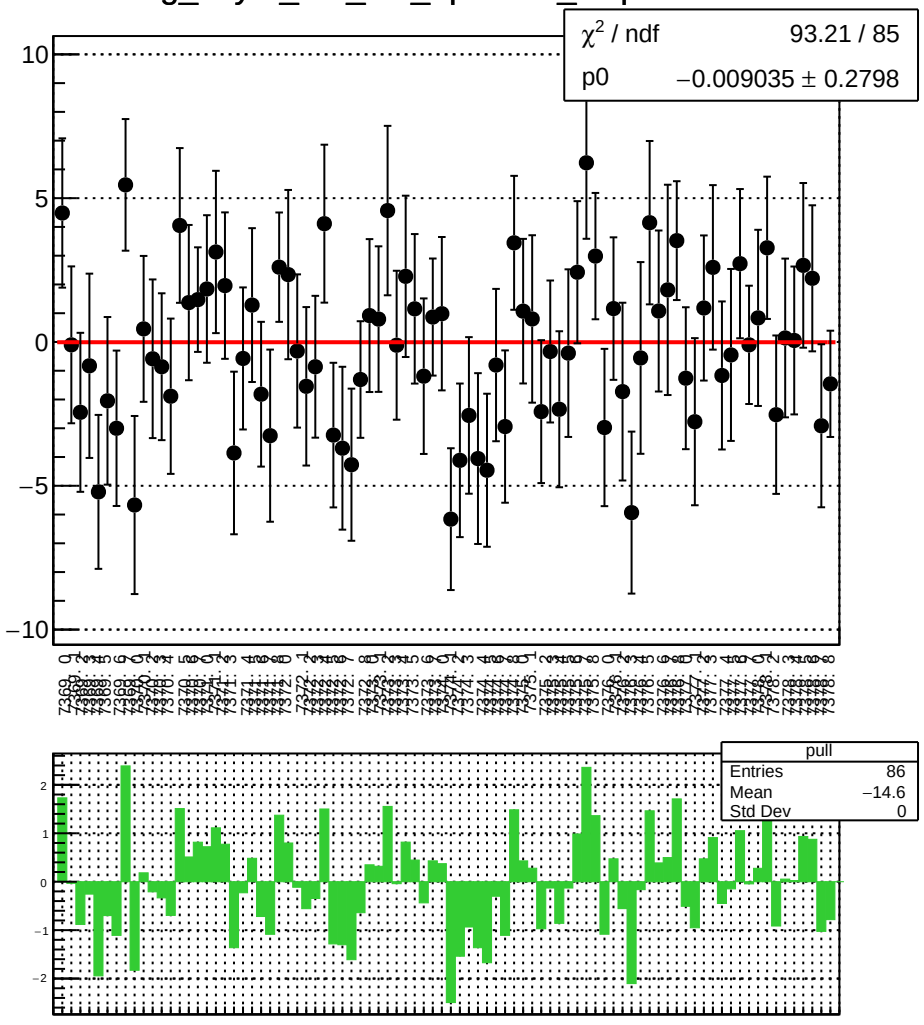

pull1D
Entries 86
Mean −0.00749
Std Dev 1.397

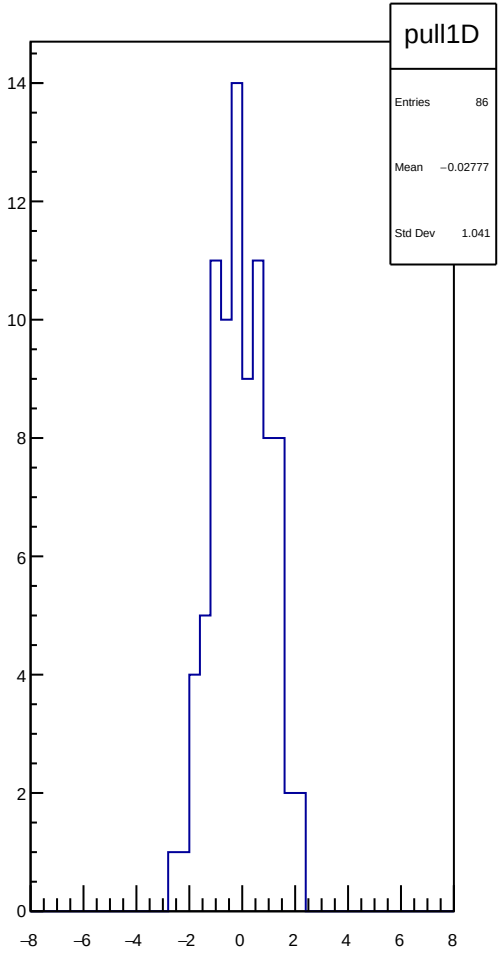

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 139.6 / 85
p0 −0.0158 ± 0.01484
pull
Entries 86
Mean 1004
Std Dev 0

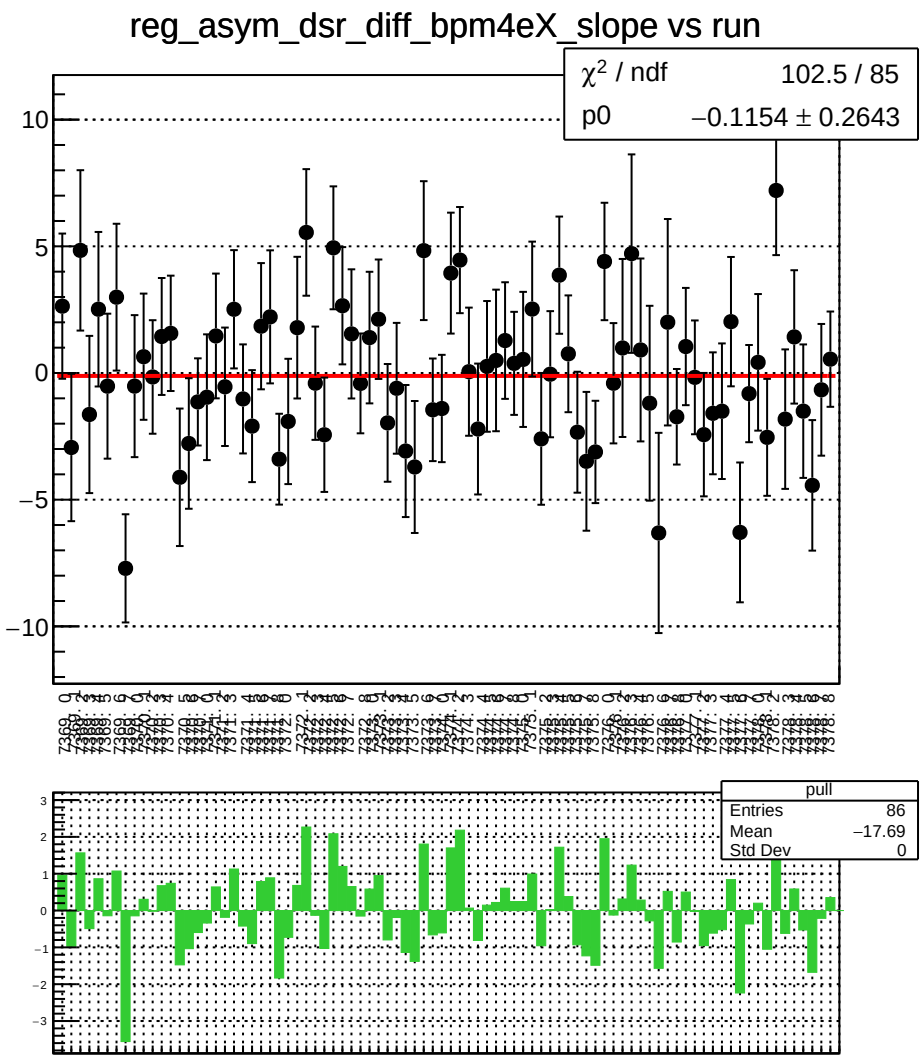

pull1D
Entries 86
Mean −0.004904
Std Dev 1.274

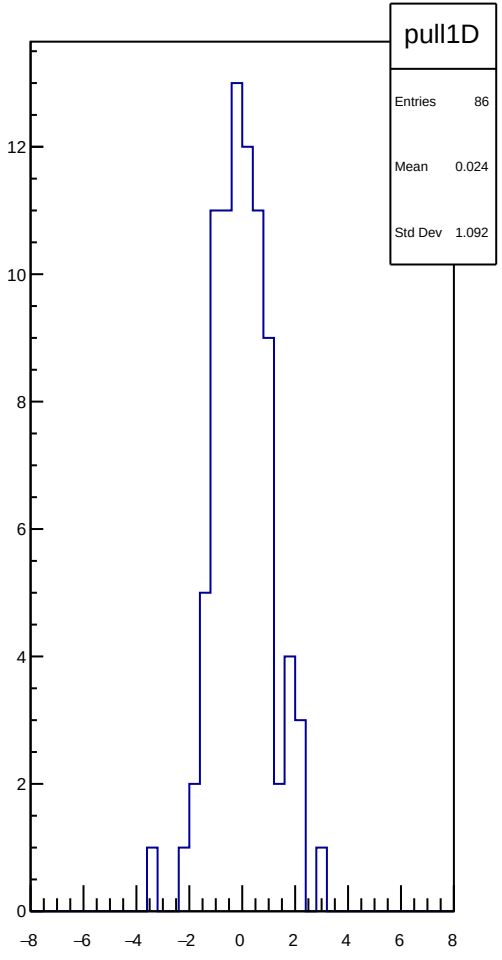

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 109.4 / 85
p0 0.1107 ± 0.2547
pull
Entries 86
Mean −46.35
Std Dev 0

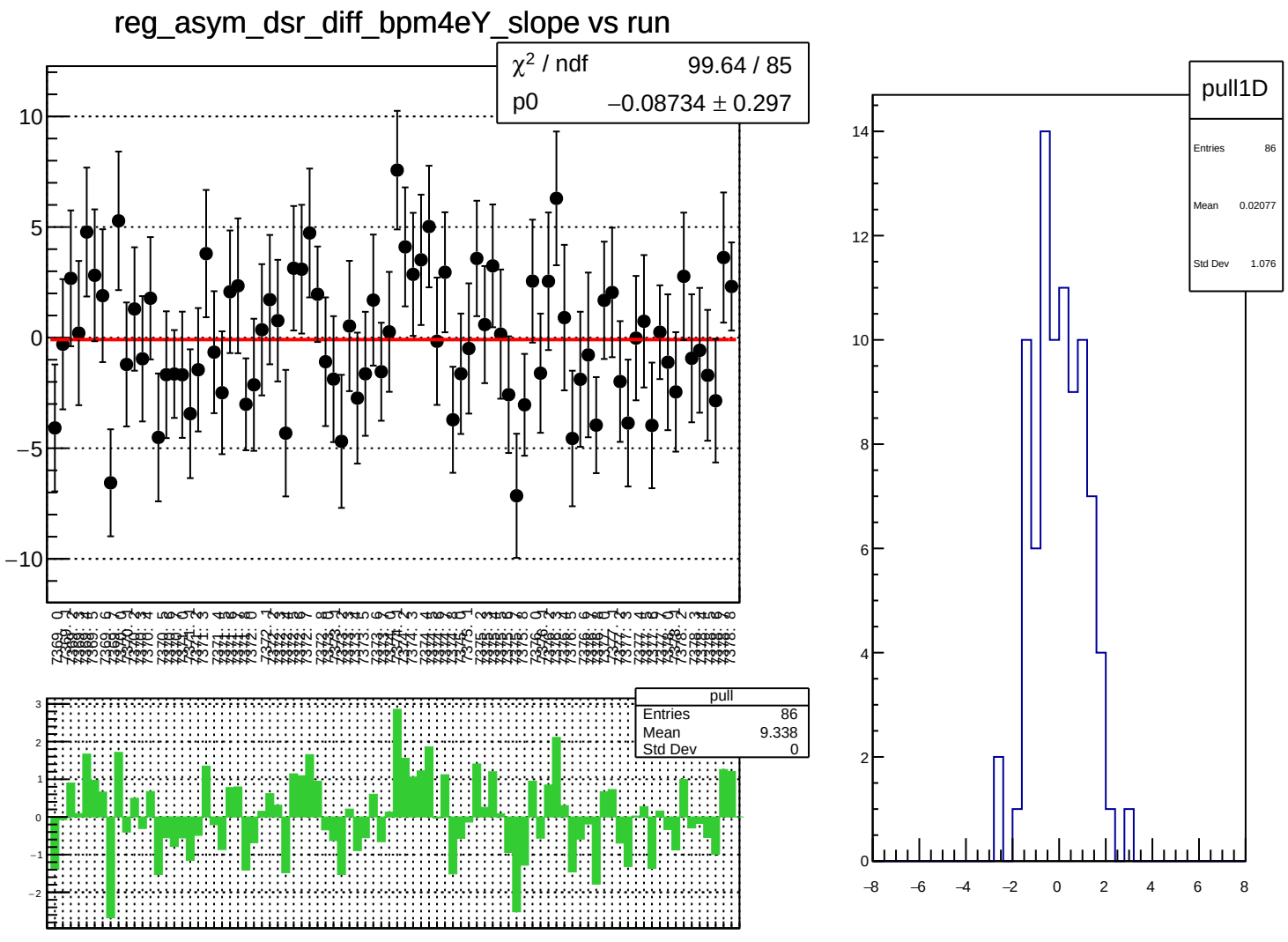

pull1D
Entries 86
Mean −0.03187
Std Dev 1.127

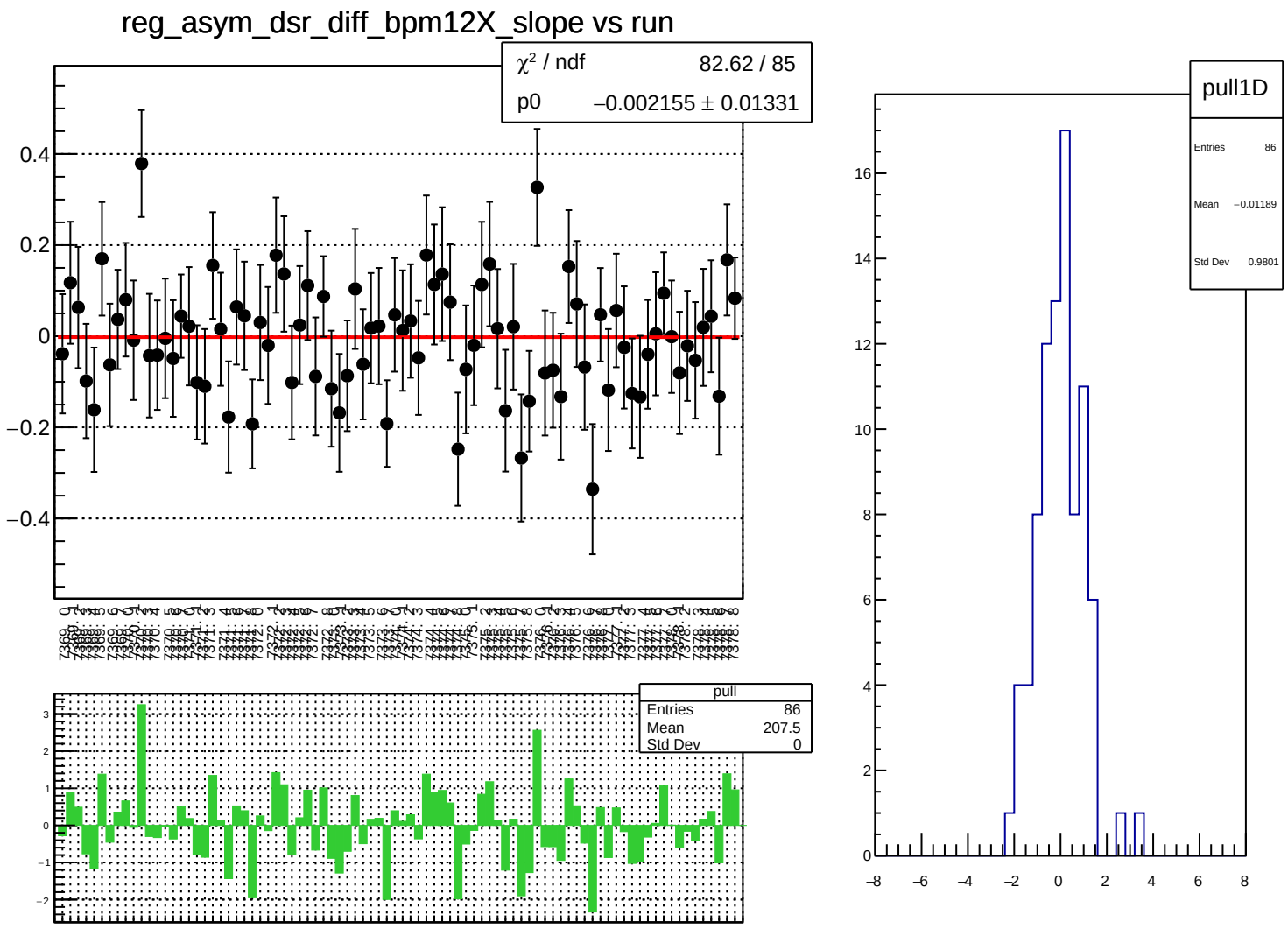

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 93.21 / 85
p0 −0.009035 ± 0.2798
pull
Entries 86
Mean −14.6
Std Dev 0

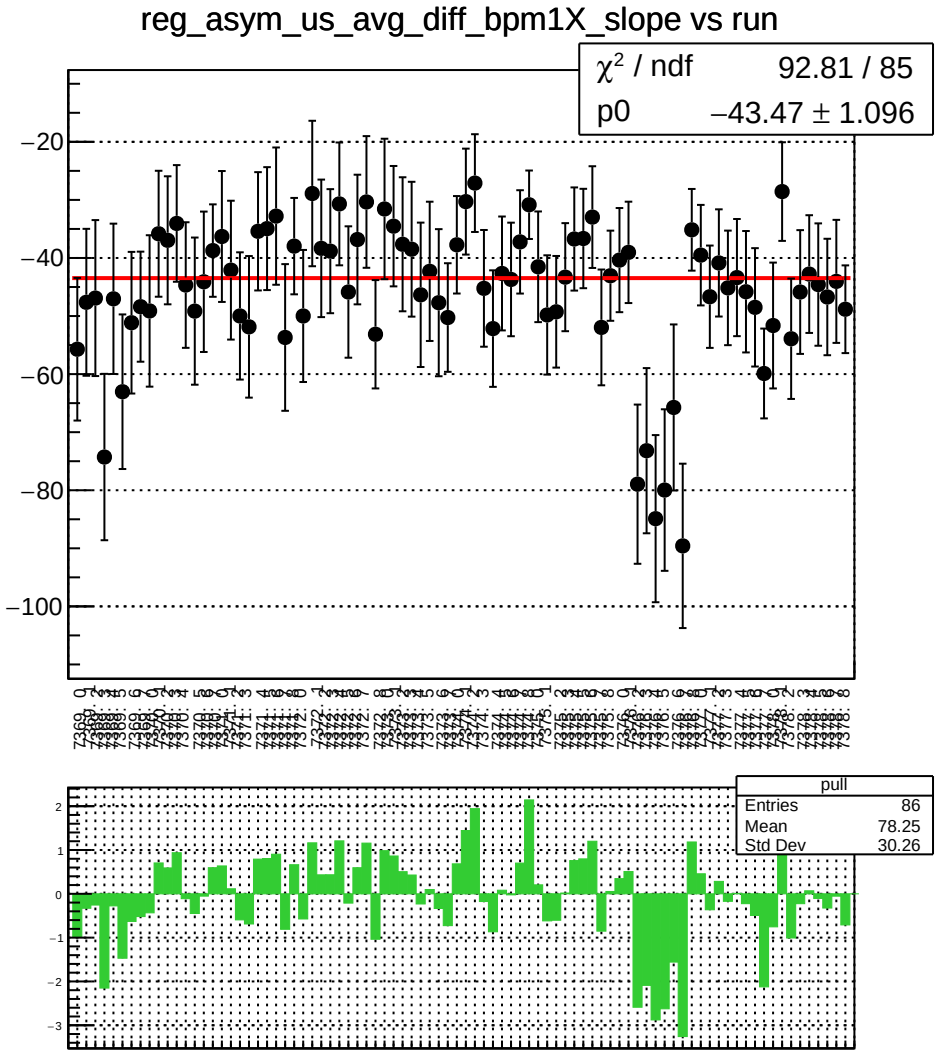

pull1D
Entries 86
Mean −0.02777
Std Dev 1.041

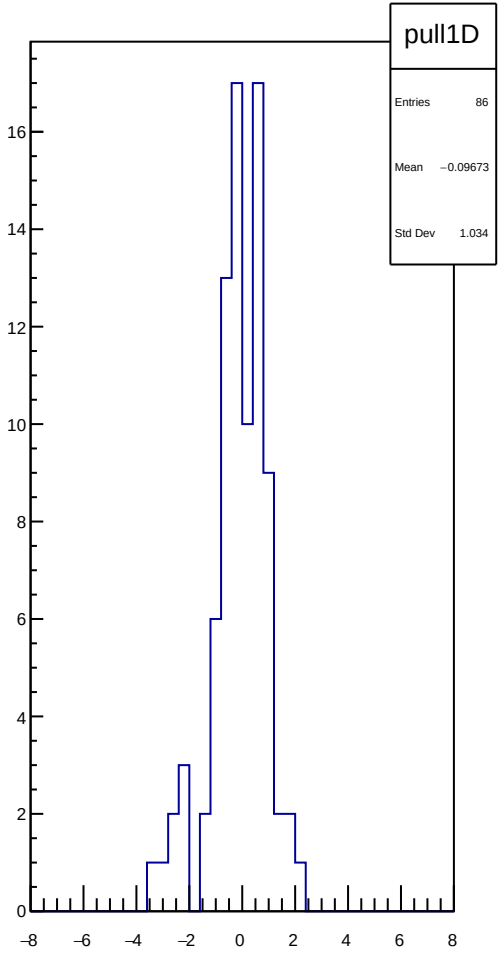

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 102.5 / 85
p0 −0.1154 ± 0.2643
pull
Entries 86
Mean −17.69
Std Dev 0

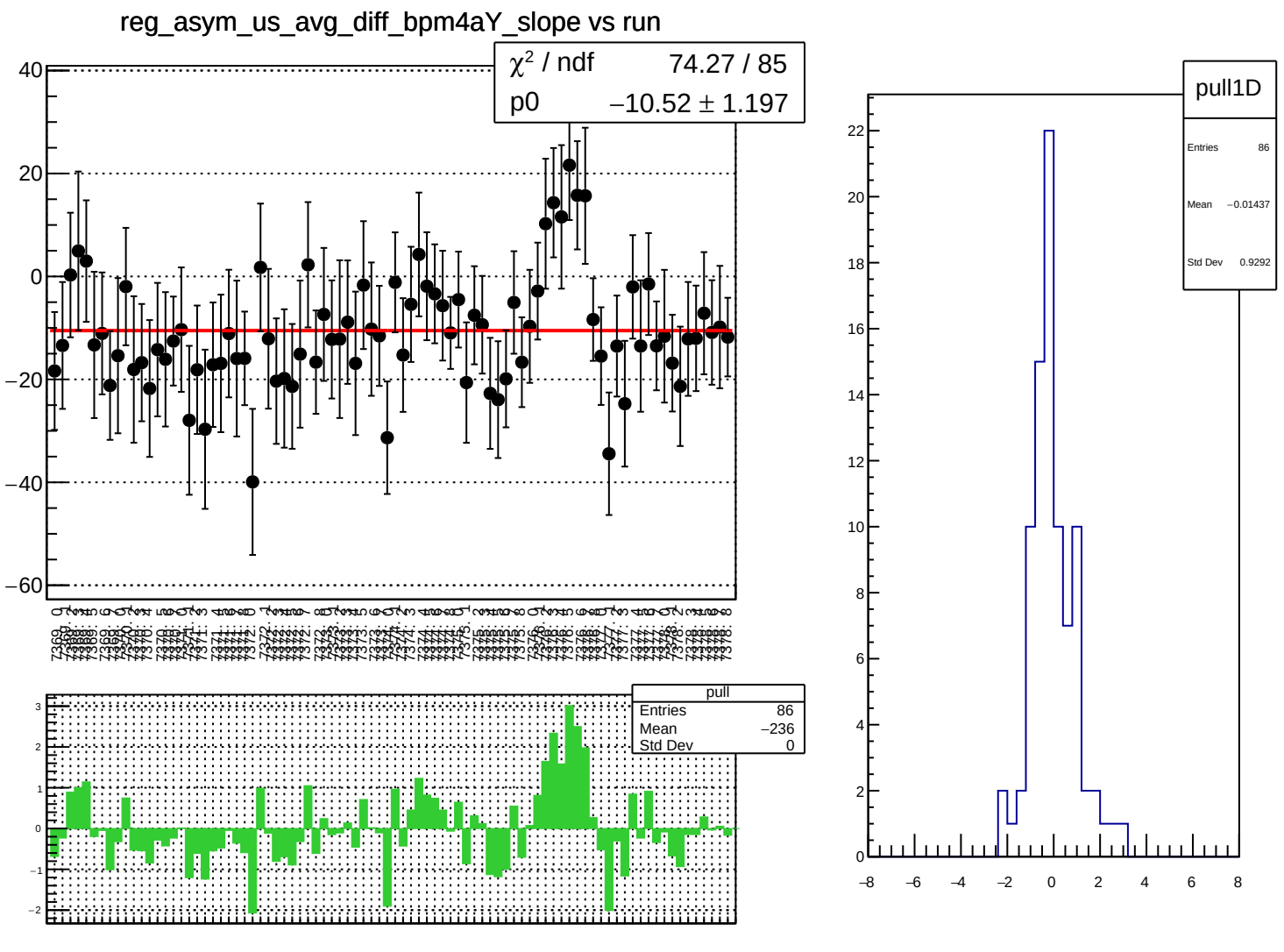

pull1D
Entries 86
Mean 0.024
Std Dev 1.092

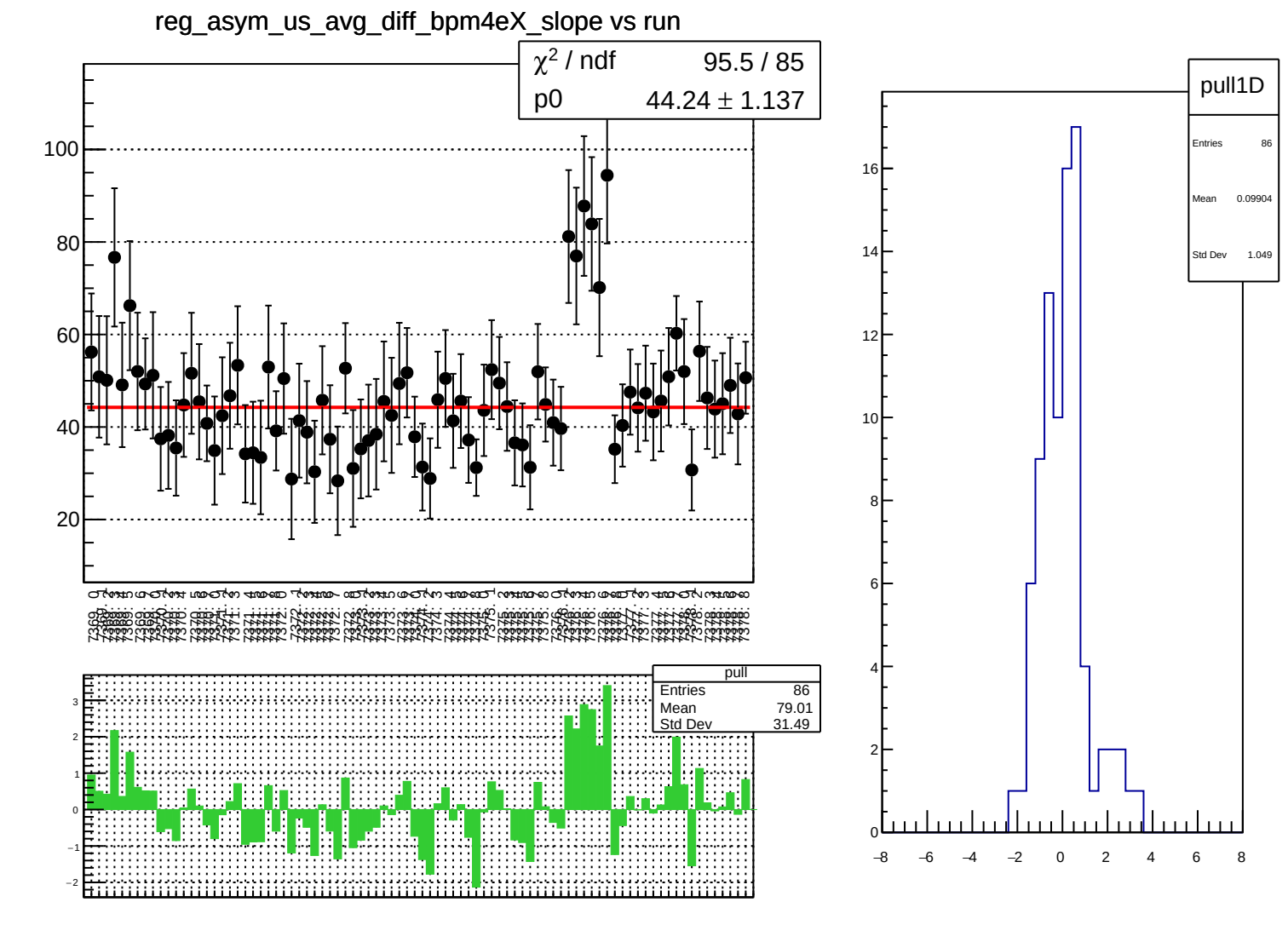

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 99.64 / 85
p0 −0.08734 ± 0.297
pull
Entries 86
Mean 9.338
Std Dev 0
pull1D
Entries 86
Mean 0.02077
Std Dev 1.076

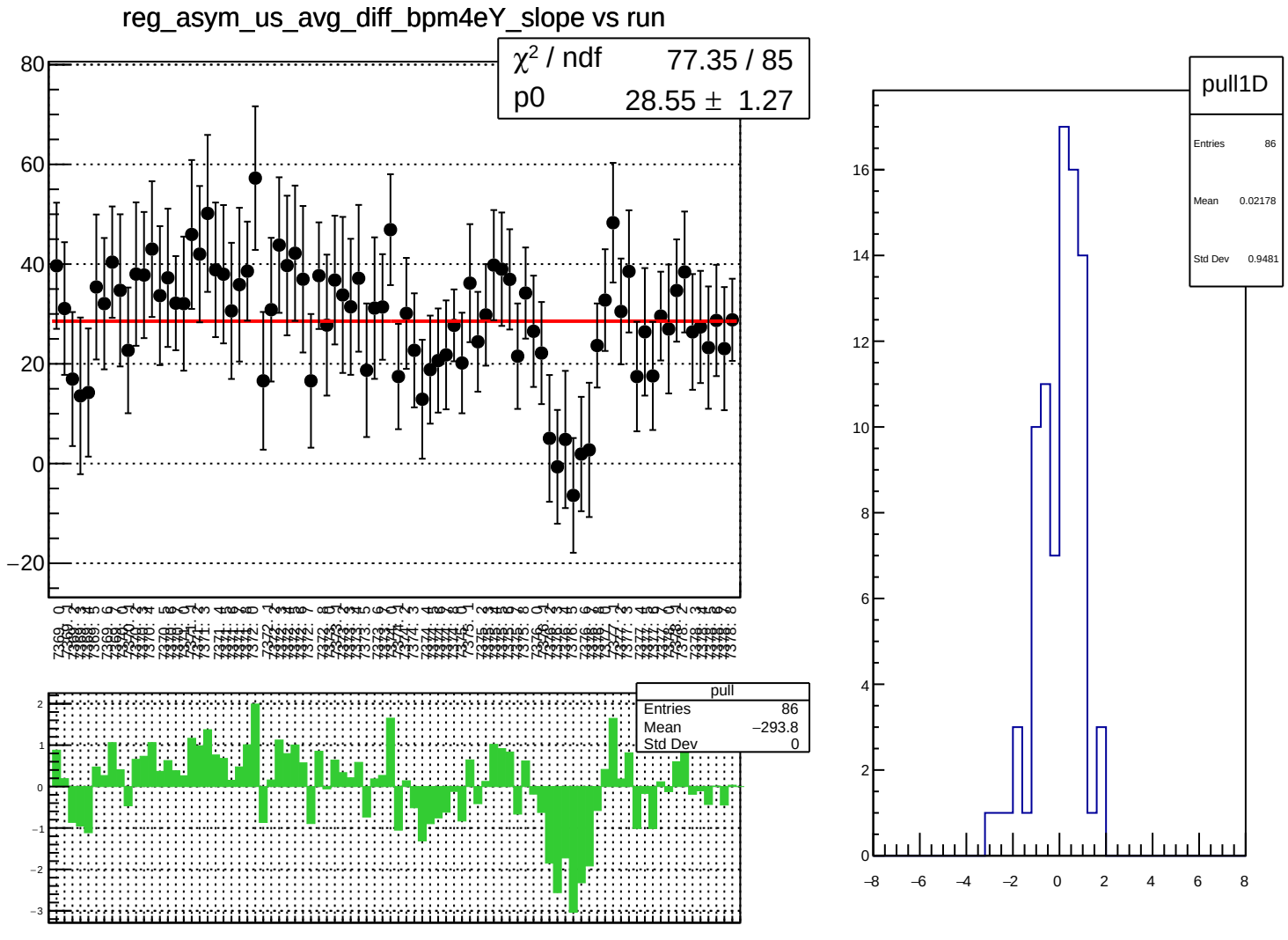

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 82.62 / 85
p0 −0.002155 ± 0.01331
pull
Entries 86
Mean 207.5
Std Dev 0
pull1D
Entries 86
Mean −0.01189
Std Dev 0.9801

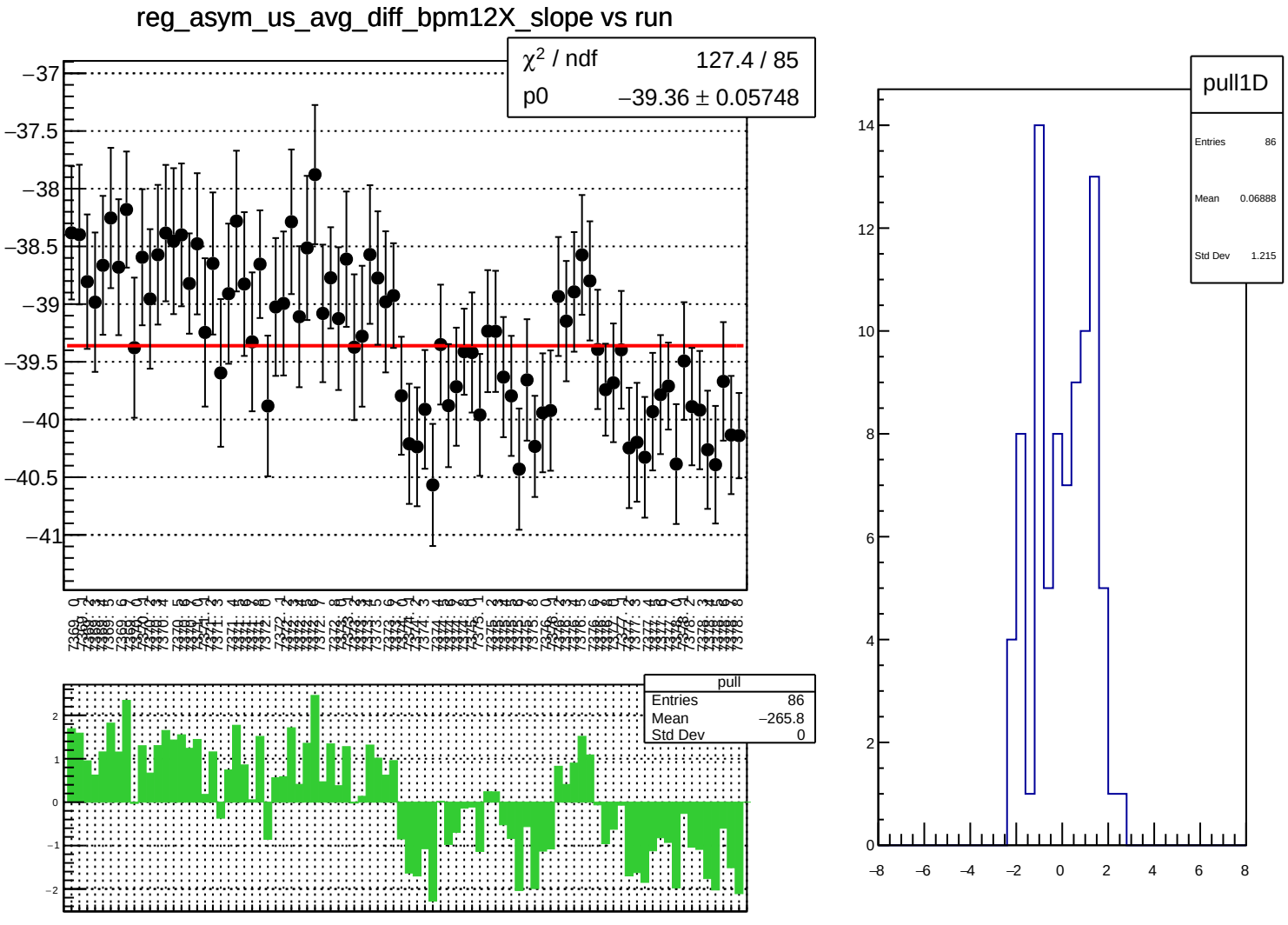

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 92.81 / 85
p0 −43.47 ± 1.096
pull
Entries 86
Mean 78.25
Std Dev 30.26

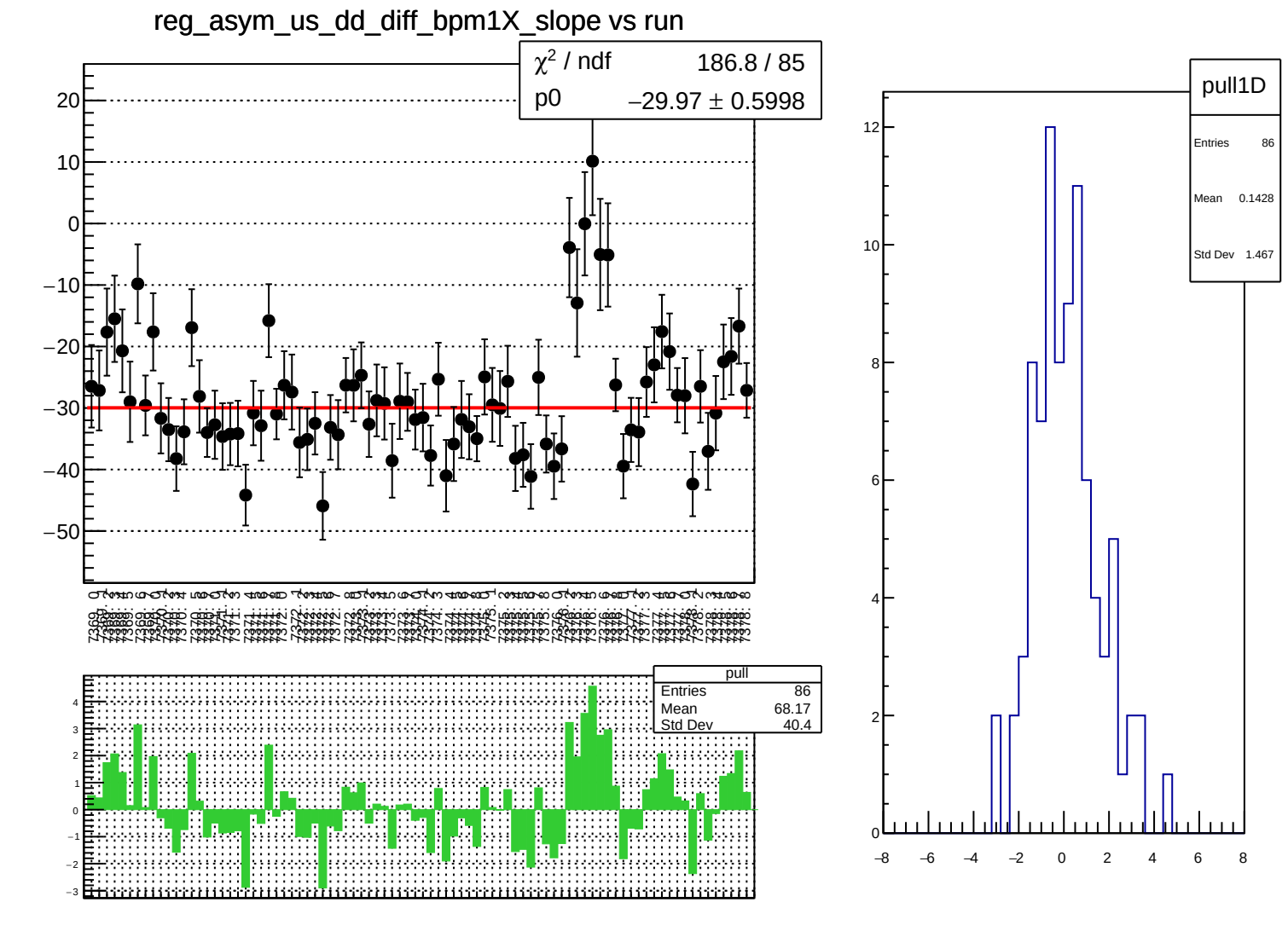

pull1D
Entries 86
Mean −0.09673
Std Dev 1.034

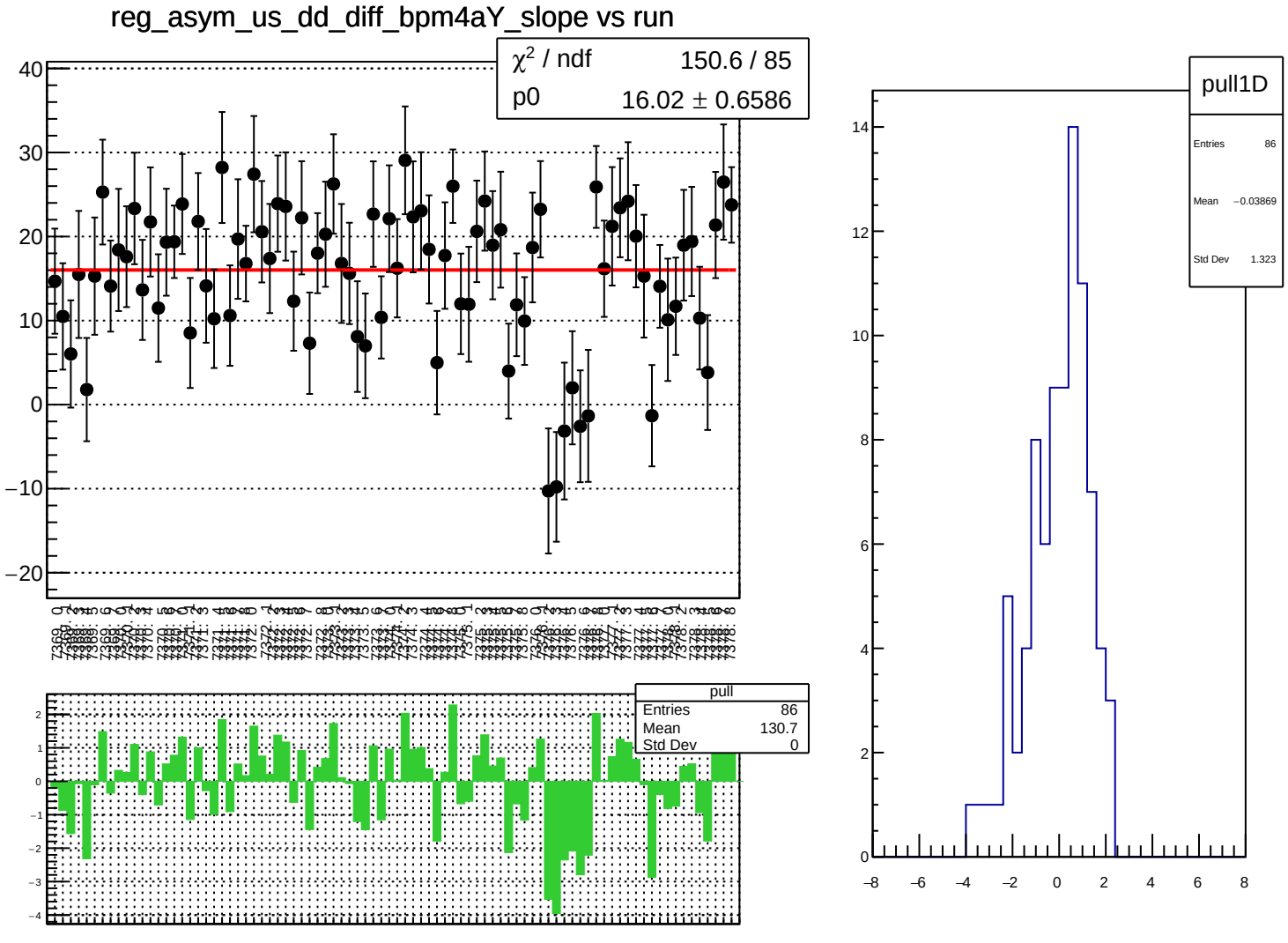

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.27 / 85
p0 −10.52 ± 1.197
pull
Entries 86
Mean −236
Std Dev 0
pull1D
Entries 86
Mean −0.01437
Std Dev 0.9292

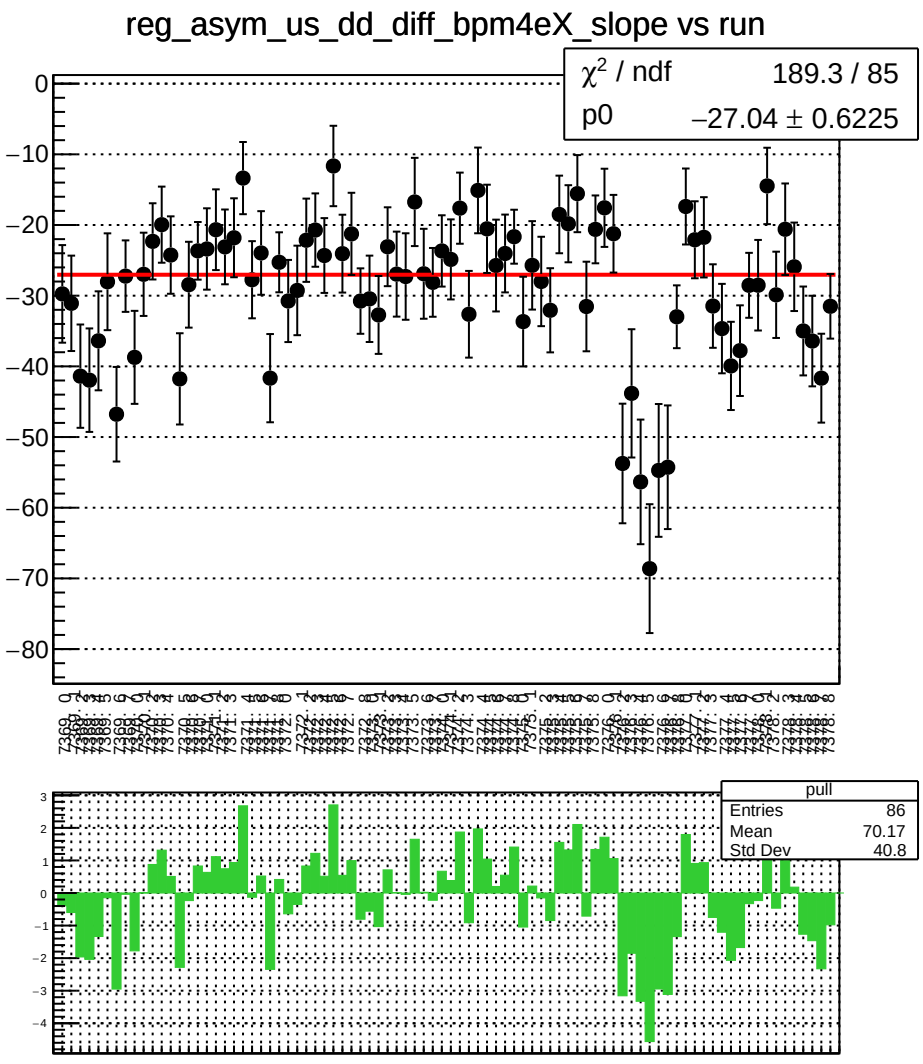

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.5 / 85
p0 44.24 ± 1.137
pull
Entries 86
Mean 79.01
Std Dev 31.49
pull1D
Entries 86
Mean 0.09904
Std Dev 1.049

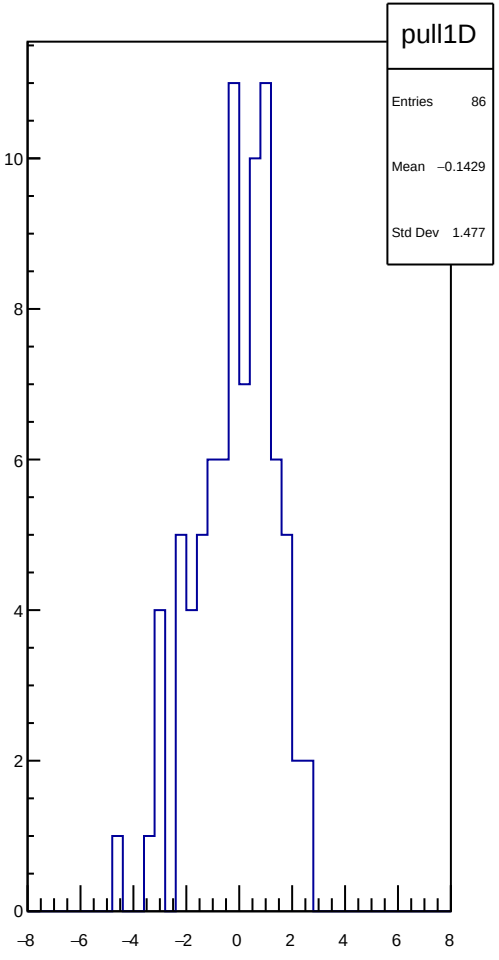

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.35 / 85
p0 28.55 ± 1.27
pull
Entries 86
Mean −293.8
Std Dev 0
pull1D
Entries 86
Mean 0.02178
Std Dev 0.9481

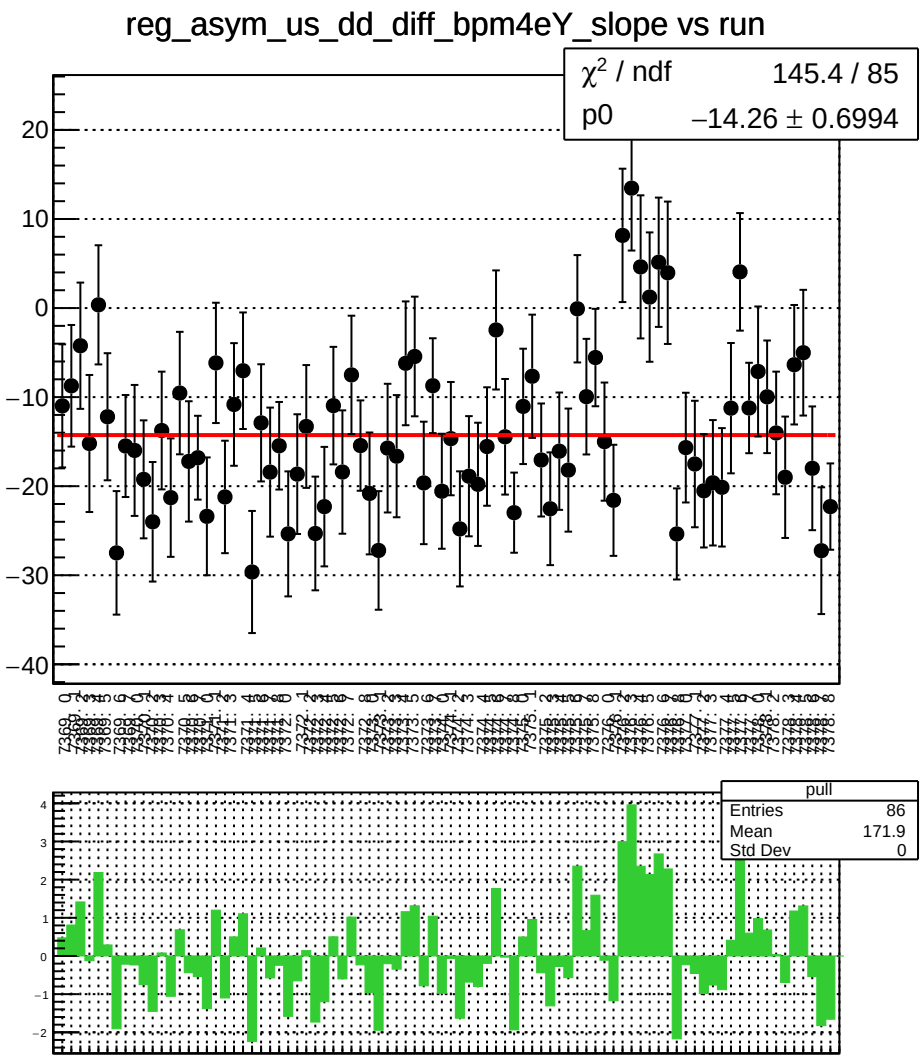

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 127.4 / 85
p0 −39.36 ± 0.05748
pull
Entries 86
Mean −265.8
Std Dev 0
pull1D
Entries 86
Mean 0.06888
Std Dev 1.215

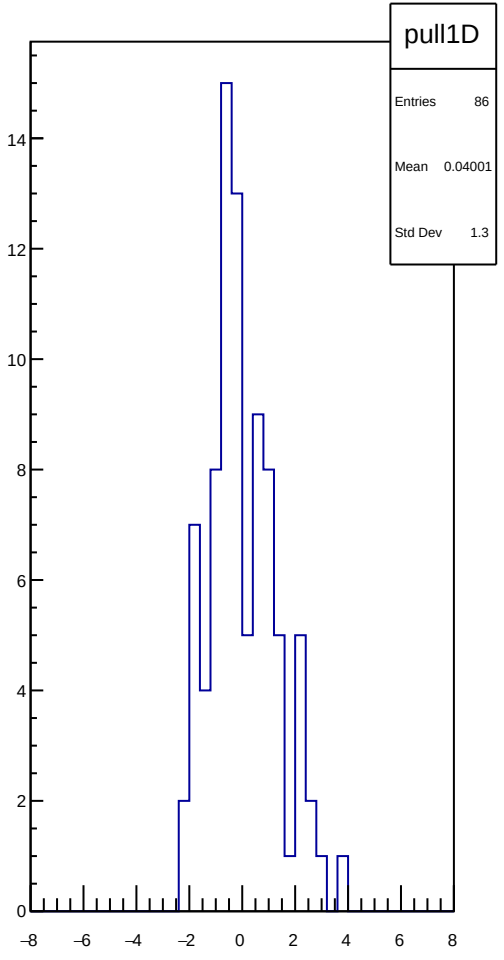

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 186.8 / 85
p0 −29.97 ± 0.5998
pull
Entries 86
Mean 68.17
Std Dev 40.4
pull1D
Entries 86
Mean 0.1428
Std Dev 1.467

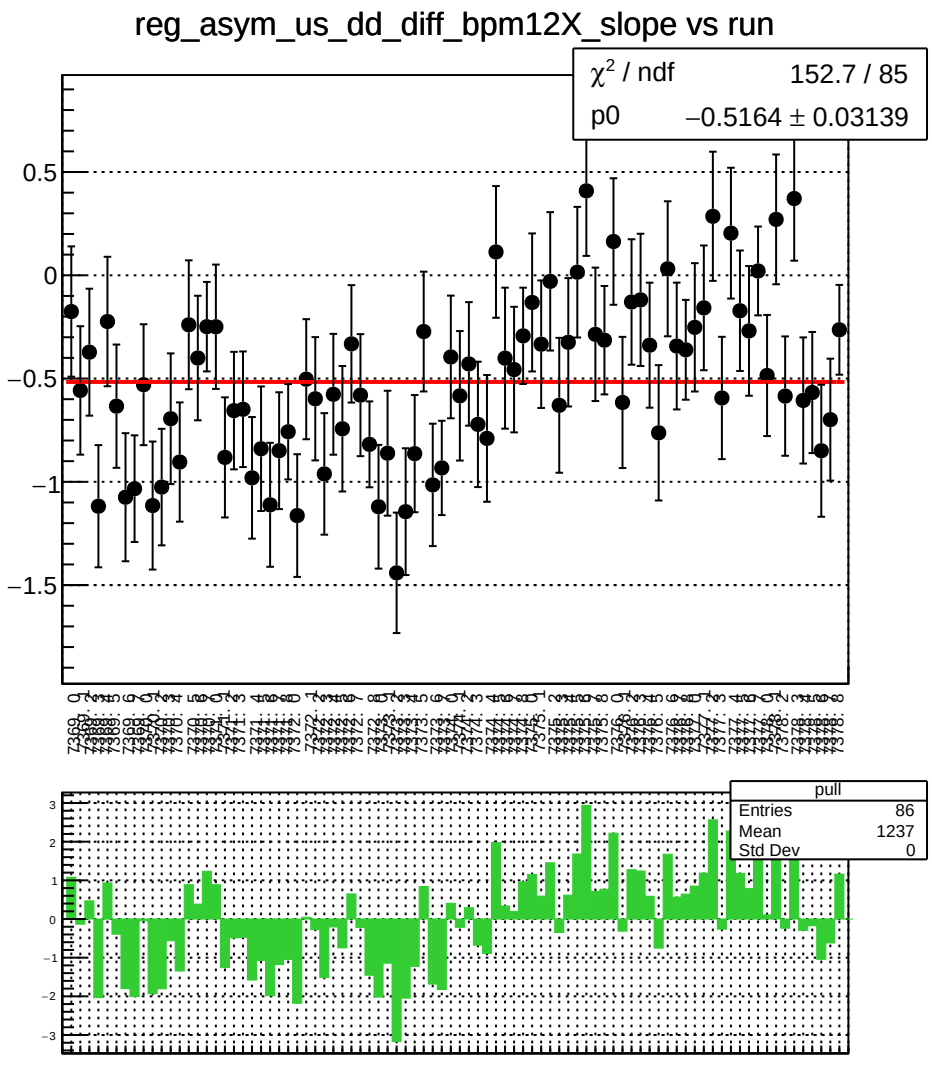

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 150.6 / 85
p0 16.02 ± 0.6586
pull
Entries 86
Mean 130.7
Std Dev 0
pull1D
Entries 86
Mean −0.03869
Std Dev 1.323

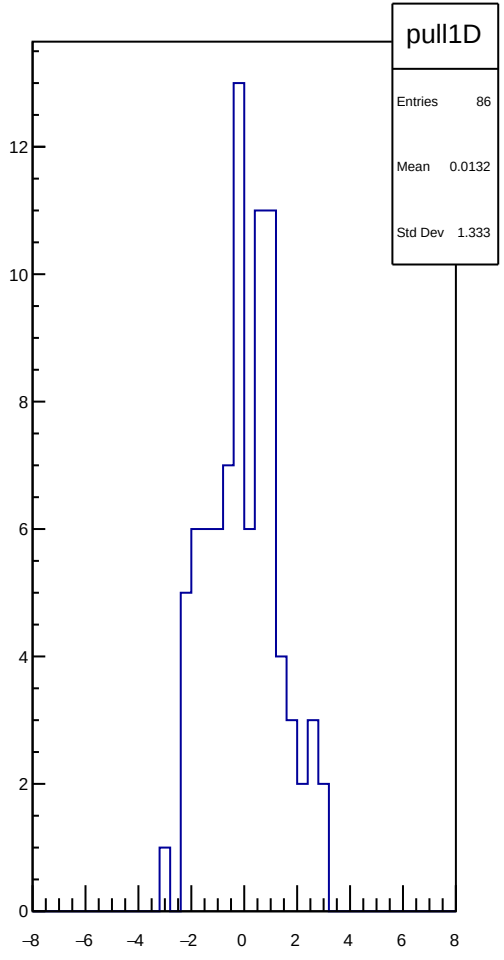

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 189.3 / 85
p0 −27.04 ± 0.6225
pull
Entries 86
Mean 70.17
Std Dev 40.8

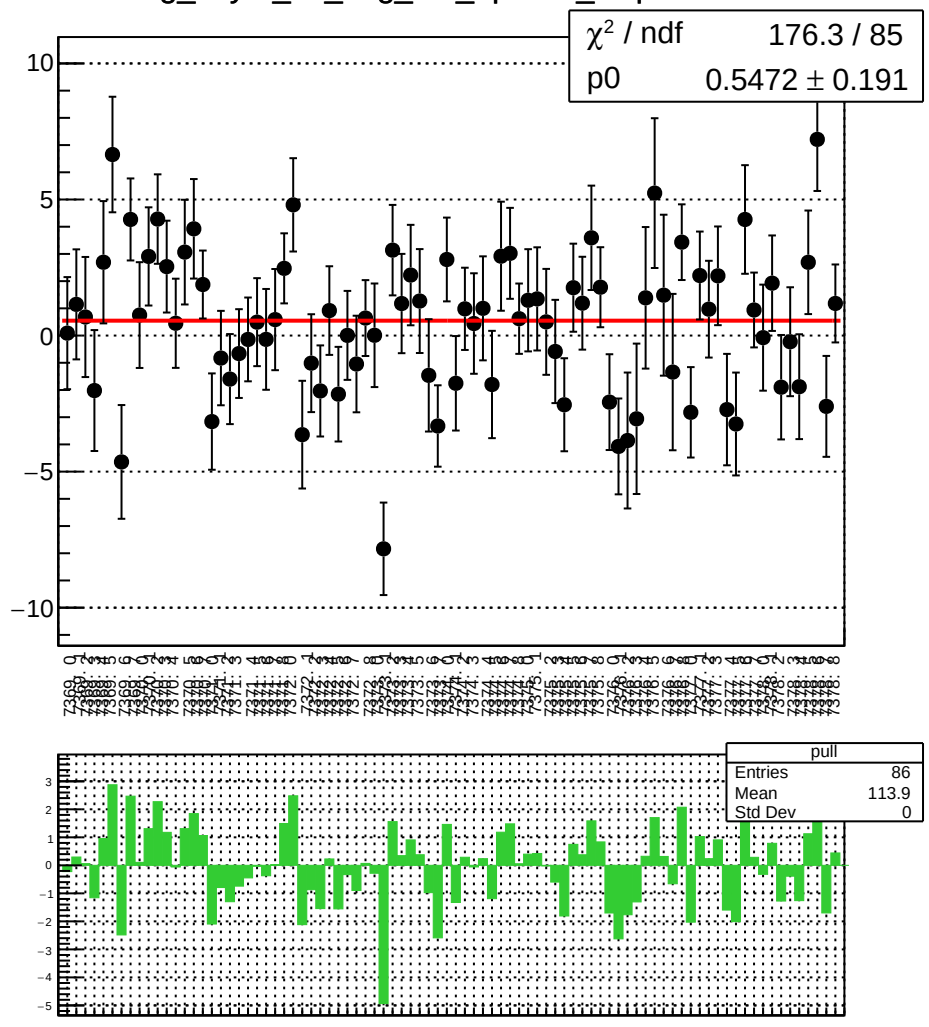

pull1D
Entries 86
Mean −0.1429
Std Dev 1.477

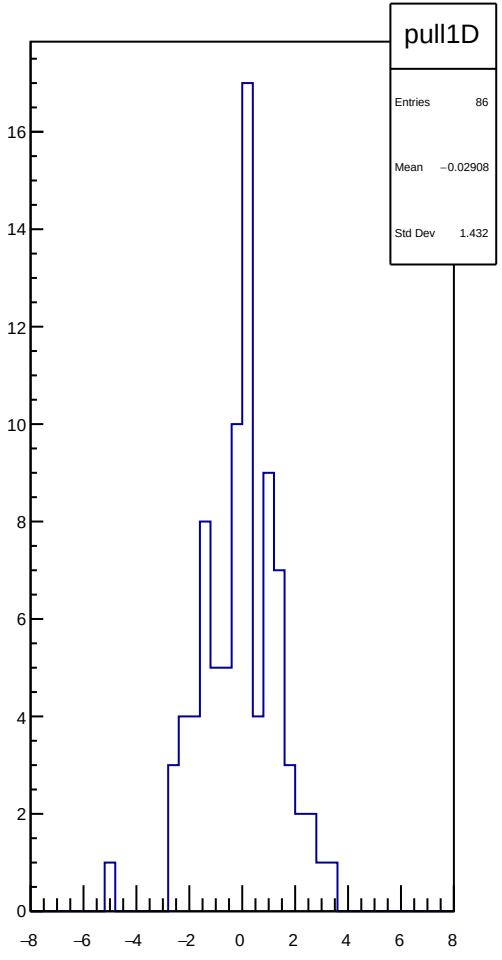

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 145.4 / 85
p0 −14.26 ± 0.6994
pull
Entries 86
Mean 171.9
Std Dev 0

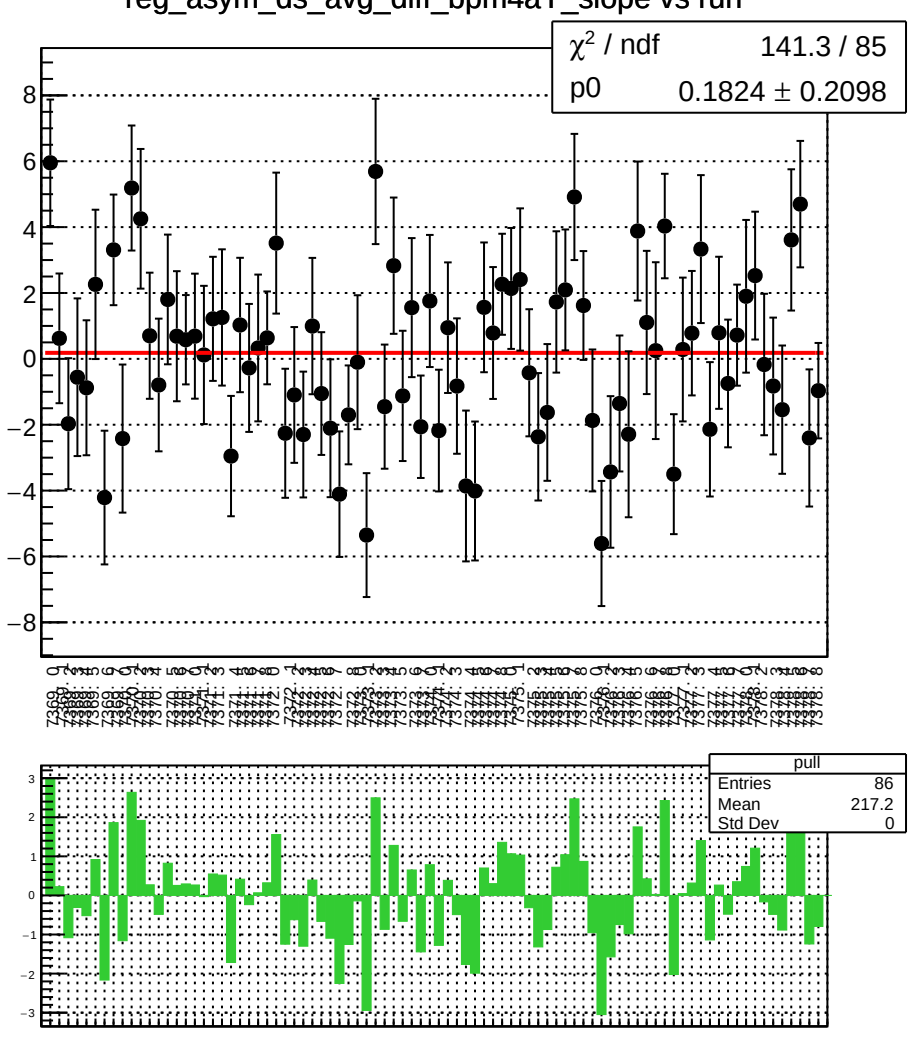

pull1D
Entries 86
Mean 0.04001
Std Dev 1.3

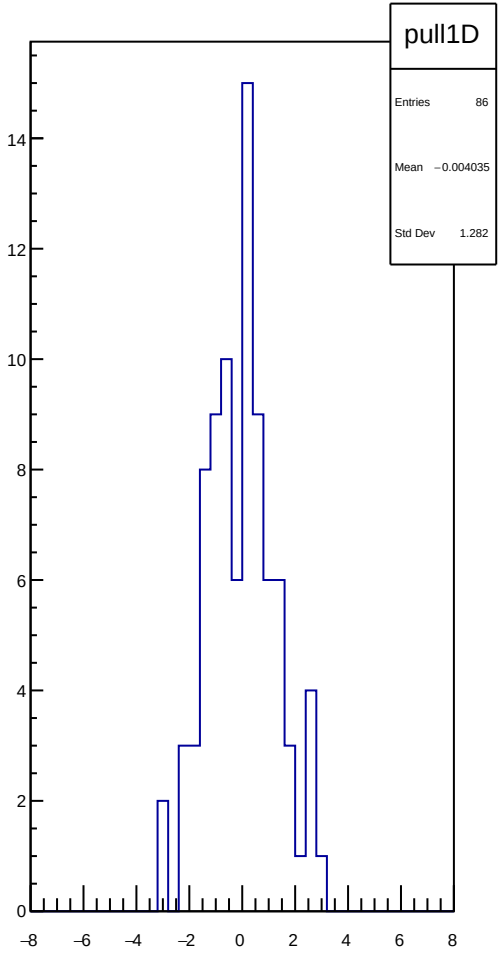

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 152.7 / 85
p0 −0.5164 ± 0.03139
0.5
0
−0.5
−1
−1.5
pull
Entries 86
Mean 1237
Std Dev 0
3
2
1
0
−1
−2
−3

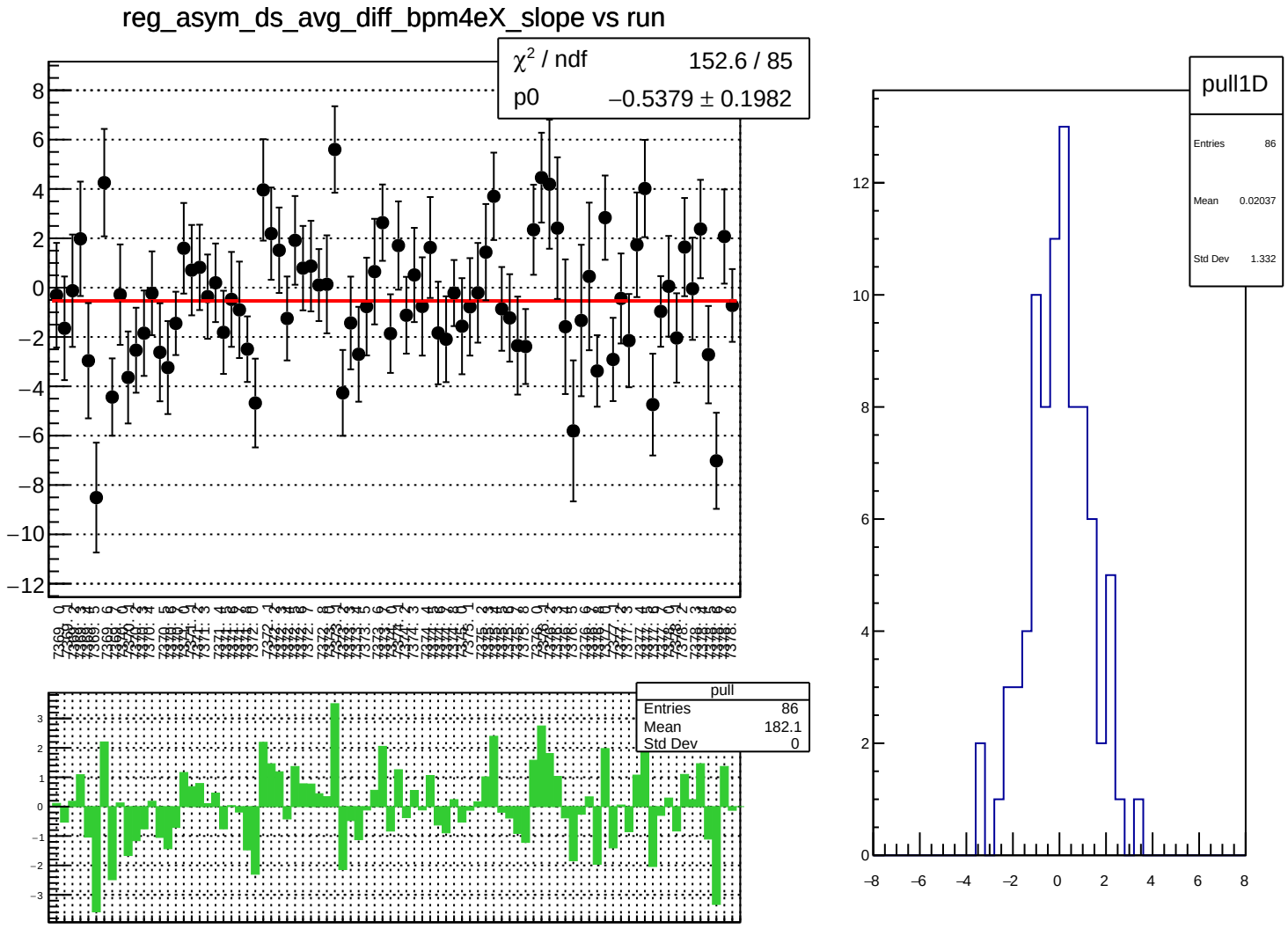

pull1D
Entries 86
Mean 0.0132
Std Dev 1.333
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

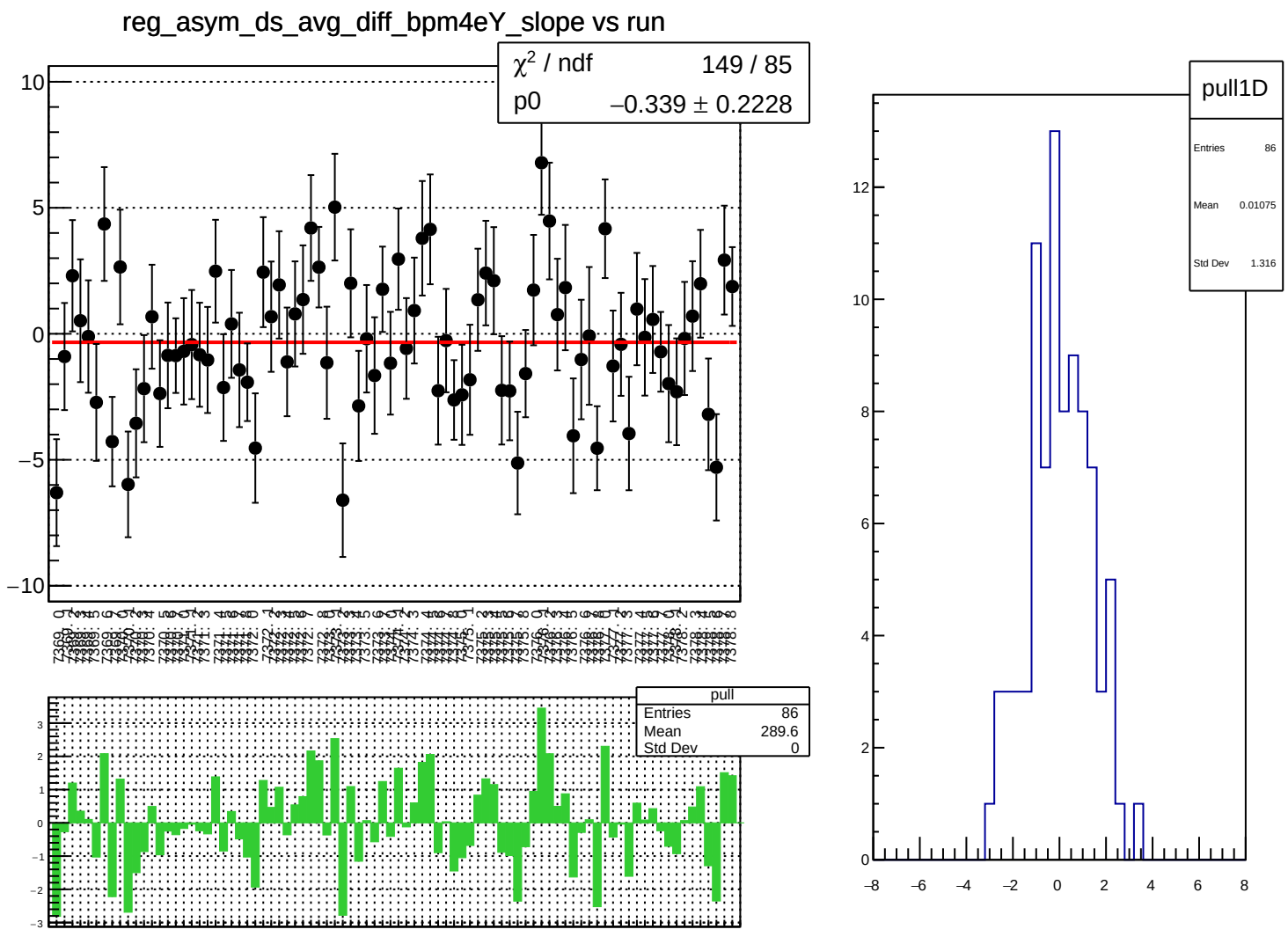

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 176.3 / 85
p0 0.5472 ± 0.191
pull
Entries 86
Mean 113.9
Std Dev 0

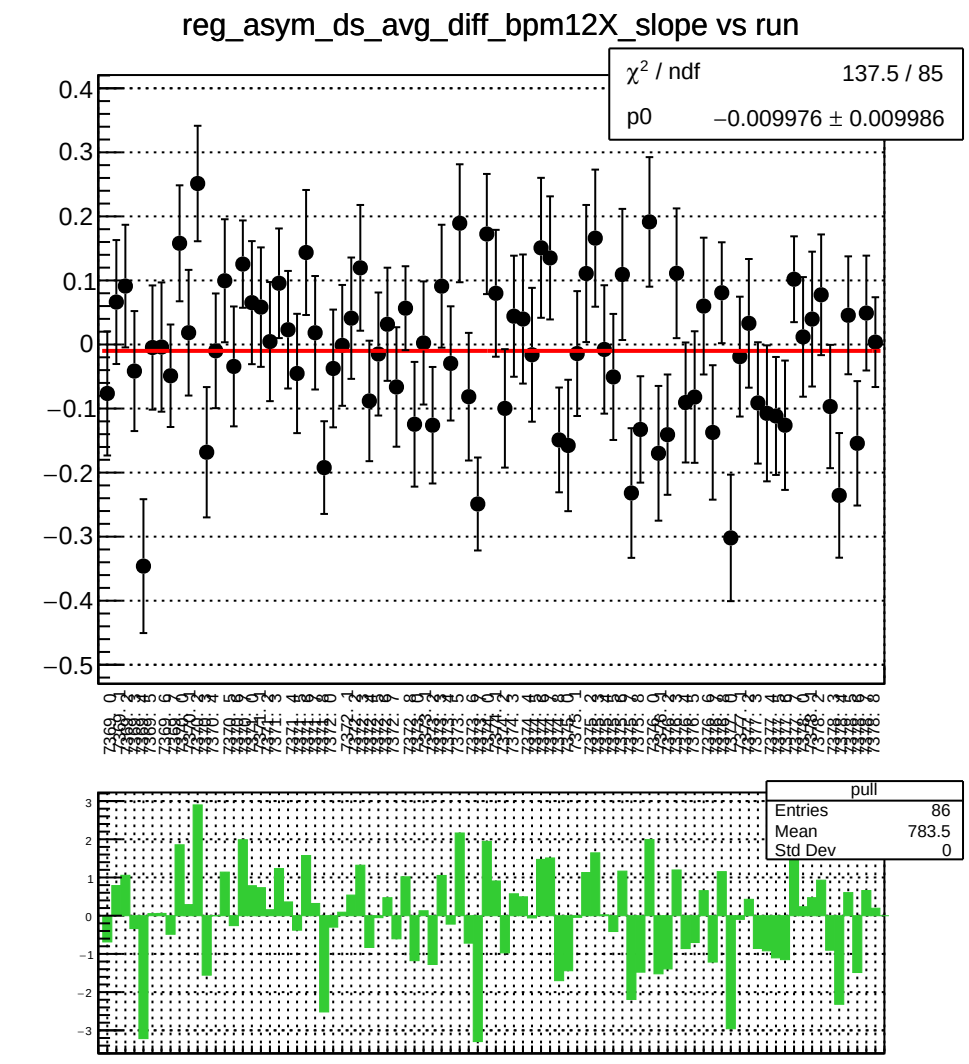

pull1D
Entries 86
Mean −0.02908
Std Dev 1.432

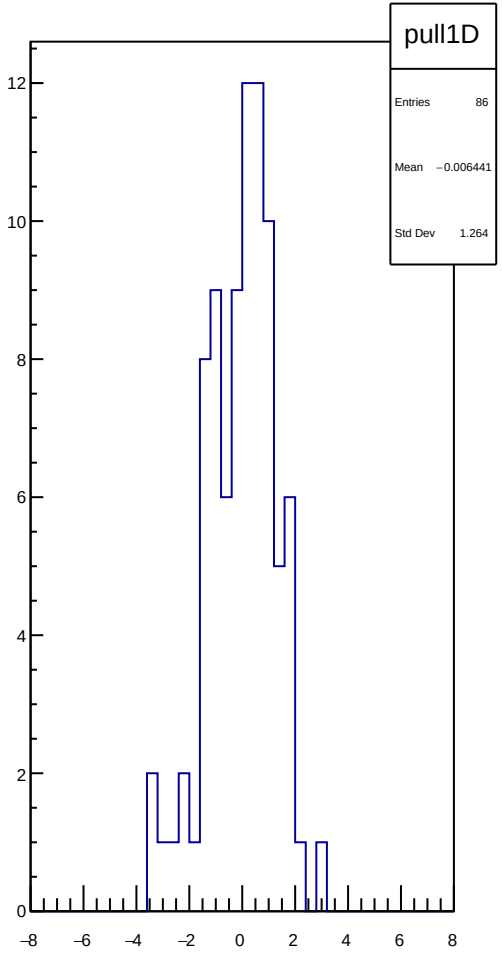

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 141.3 / 85
p0 0.1824 ± 0.2098
pull
Entries 86
Mean 217.2
Std Dev 0

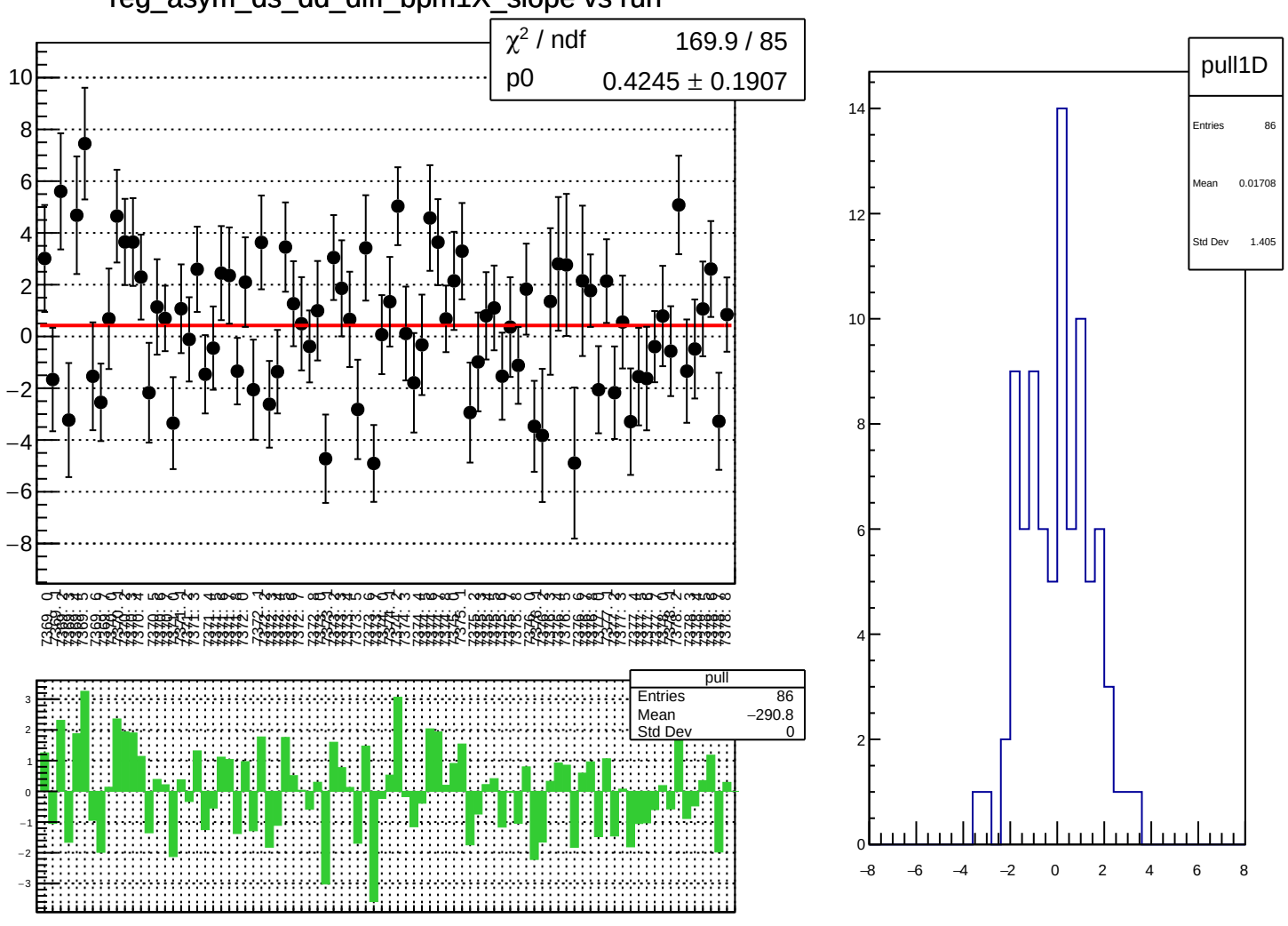

pull1D
Entries 86
Mean −0.004035
Std Dev 1.282

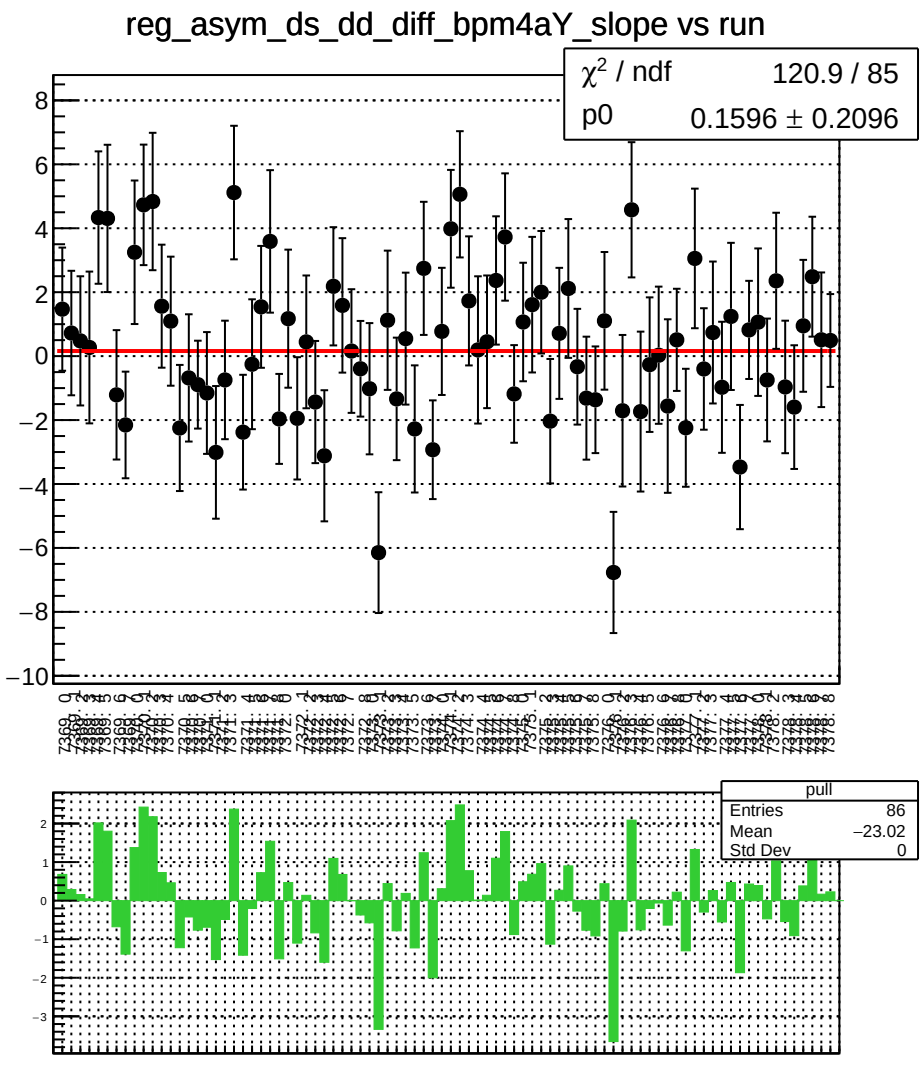

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 152.6 / 85
p0 −0.5379 ± 0.1982
pull
Entries 86
Mean 182.1
Std Dev 0
pull1D
Entries 86
Mean 0.02037
Std Dev 1.332

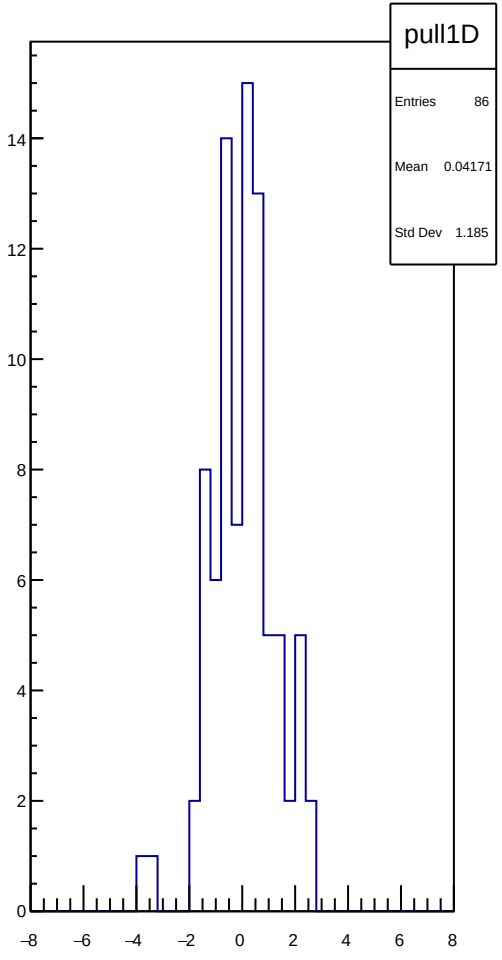

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 149 / 85
p0 −0.339 ± 0.2228
pull
Entries 86
Mean 289.6
Std Dev 0
pull1D
Entries 86
Mean 0.01075
Std Dev 1.316

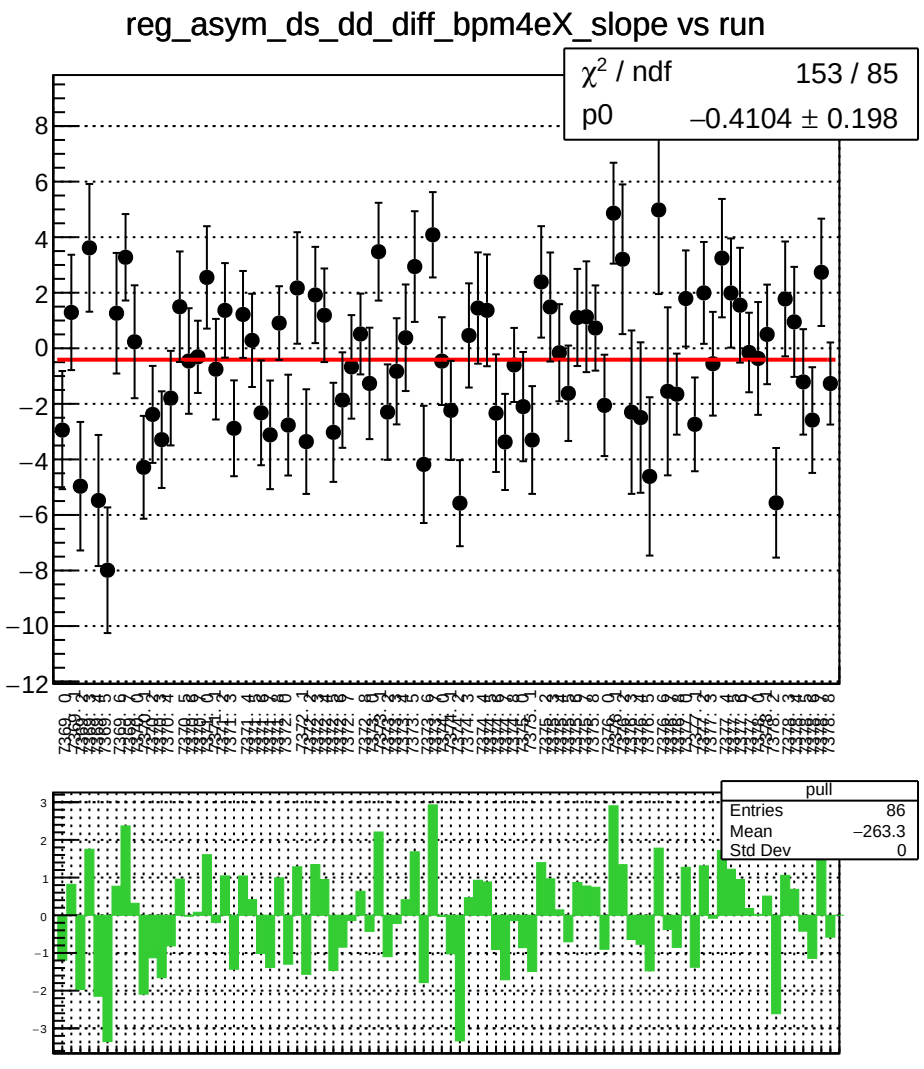

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 137.5 / 85
p0 −0.009976 ± 0.009986
pull
Entries 86
Mean 783.5
Std Dev 0

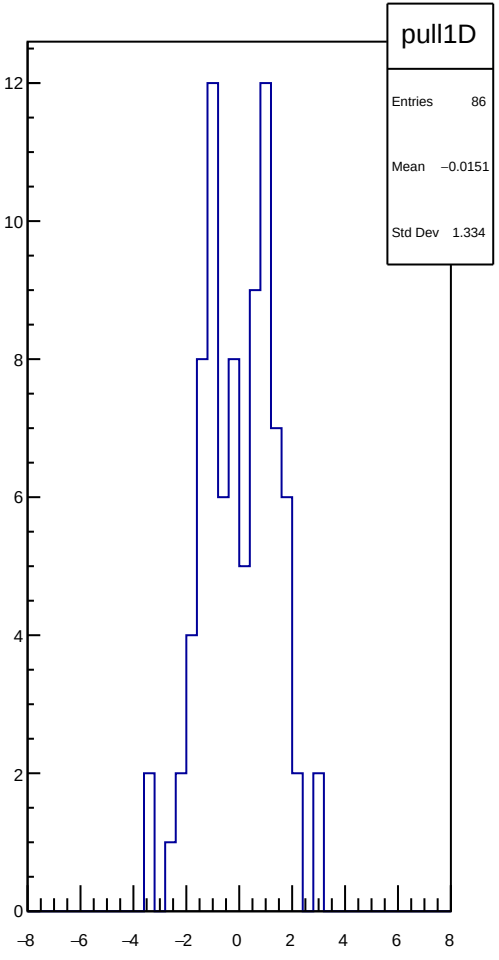

pull1D
Entries 86
Mean −0.006441
Std Dev 1.264

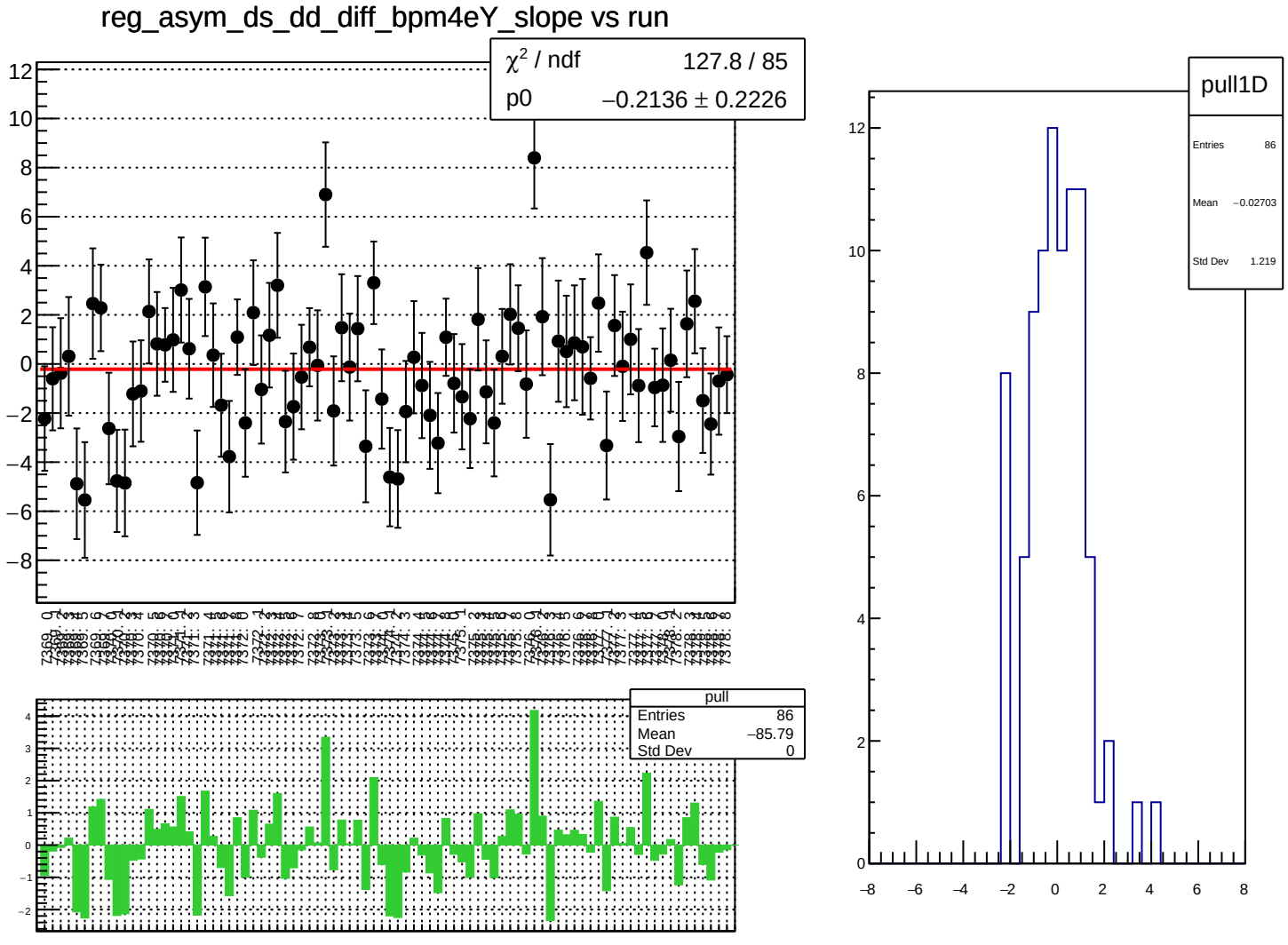

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 169.9 / 85
p0 0.4245 ± 0.1907
pull
Entries 86
Mean −290.8
Std Dev 0
pull1D
Entries 86
Mean 0.01708
Std Dev 1.405

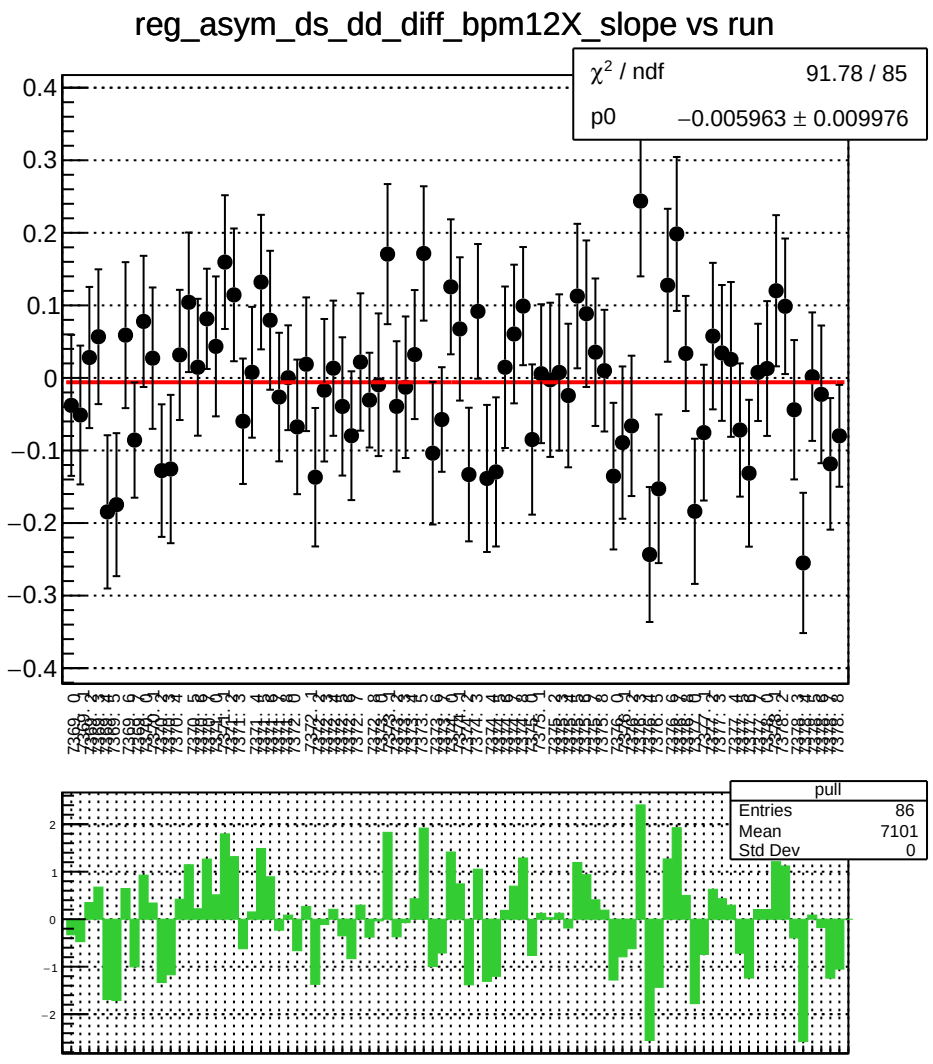

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 120.9 / 85
p0 0.1596 ± 0.2096
pull
Entries 86
Mean −23.02
Std Dev 0

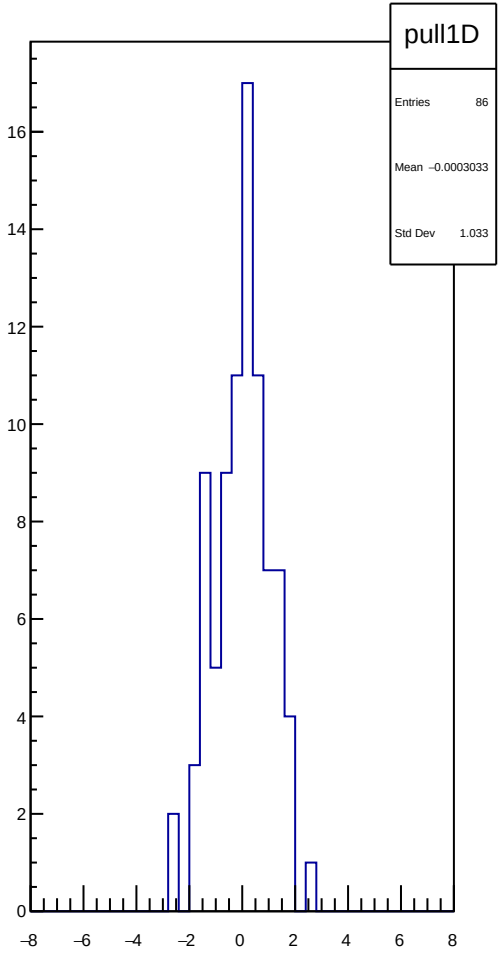

pull1D
Entries 86
Mean 0.04171
Std Dev 1.185

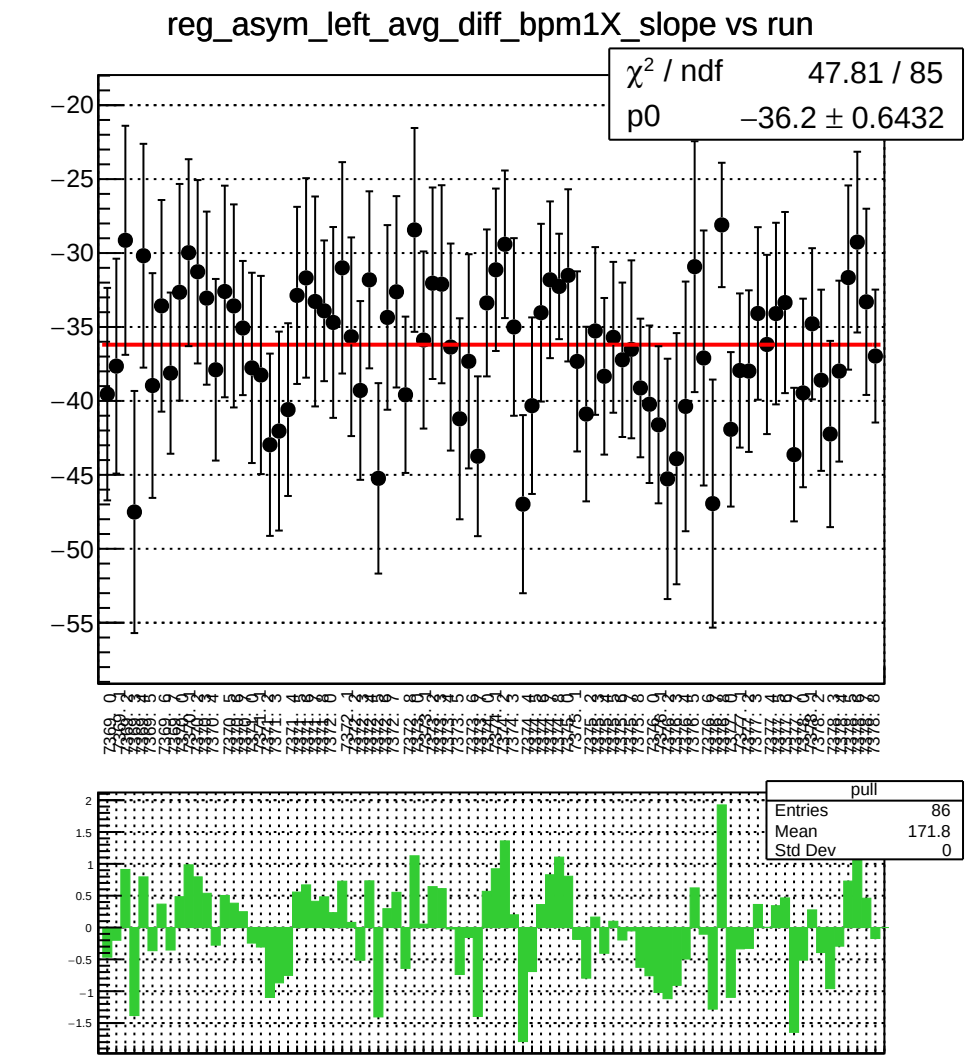

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 153 / 85
p0 −0.4104 ± 0.198
pull
Entries 86
Mean −263.3
Std Dev 0

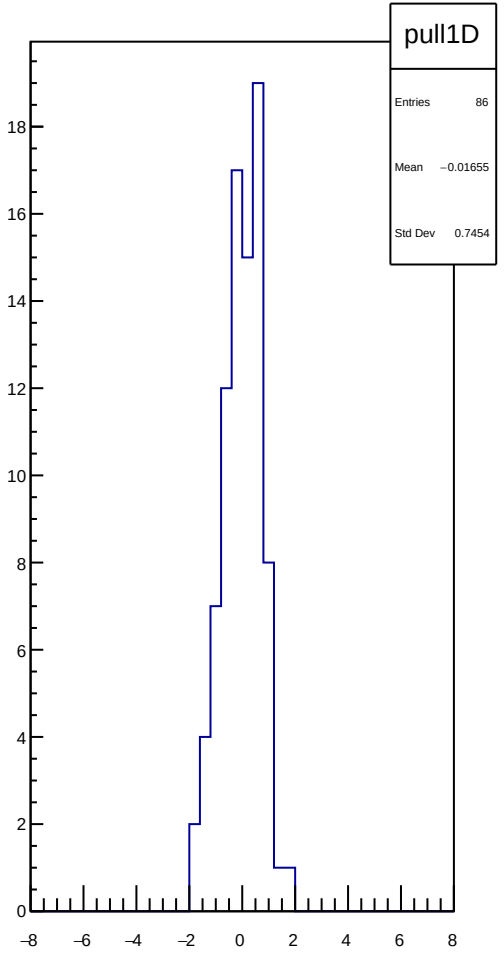

pull1D
Entries 86
Mean −0.0151
Std Dev 1.334

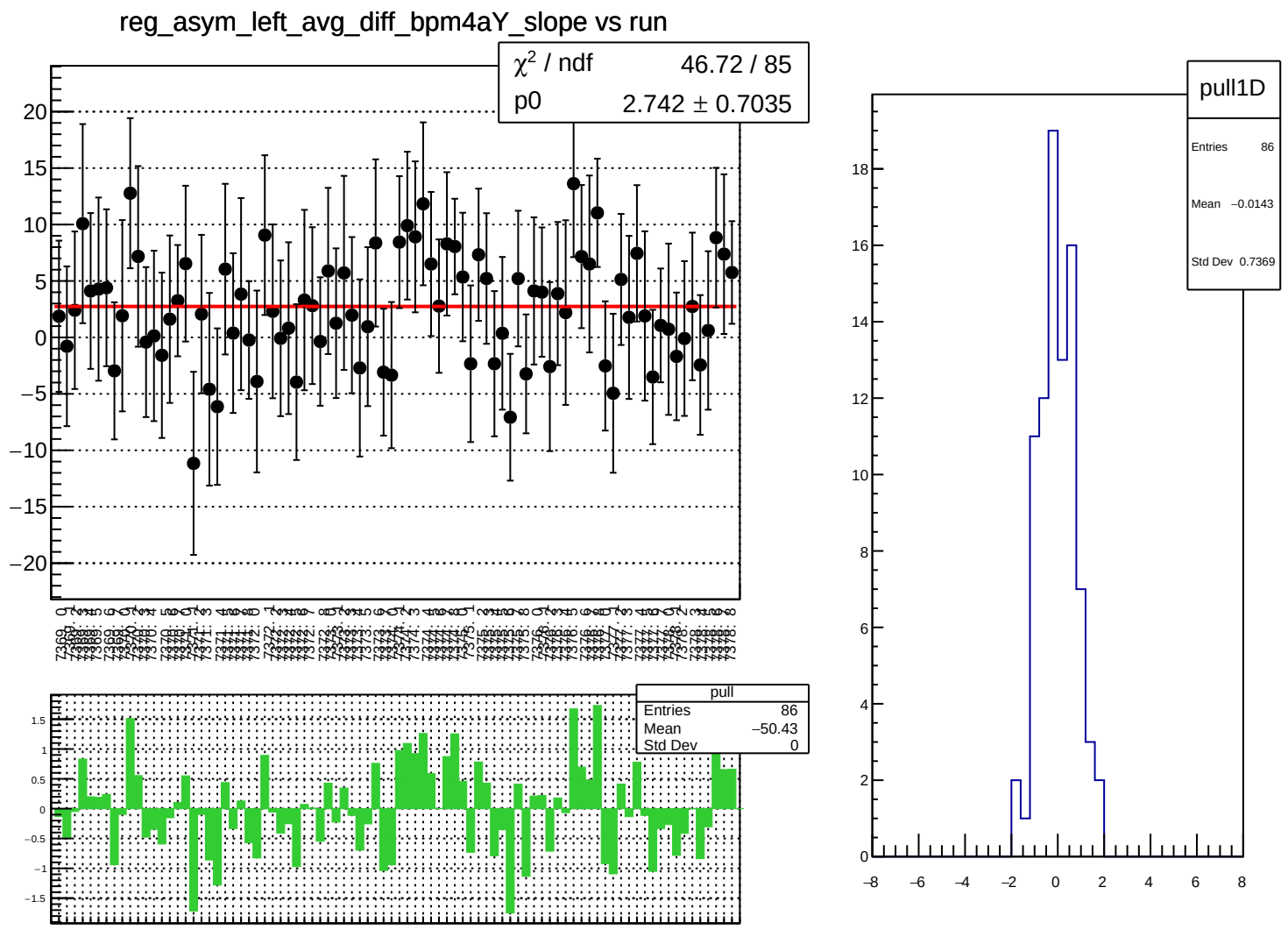

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 127.8 / 85
p0 −0.2136 ± 0.2226
pull
Entries 86
Mean −85.79
Std Dev 0
pull1D
Entries 86
Mean −0.02703
Std Dev 1.219

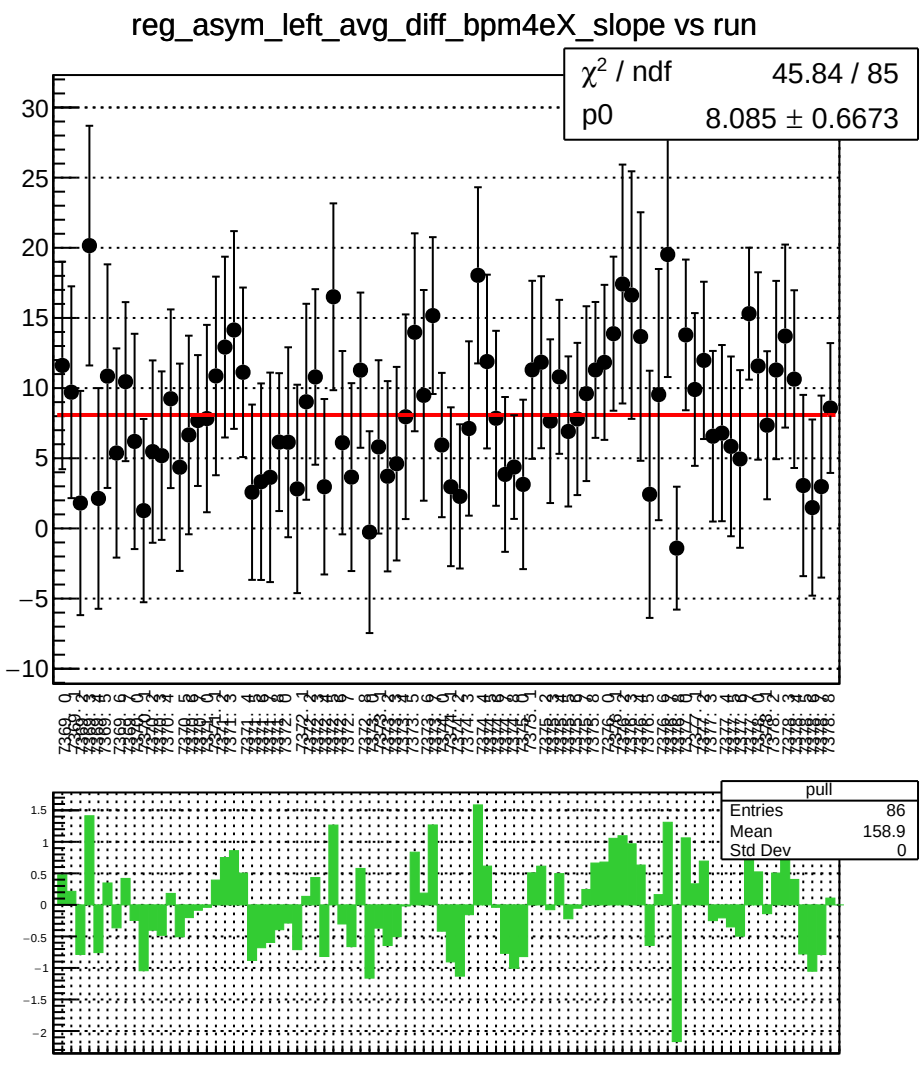

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 91.78 / 85
p0 −0.005963 ± 0.009976
pull
Entries 86
Mean 7101
Std Dev 0

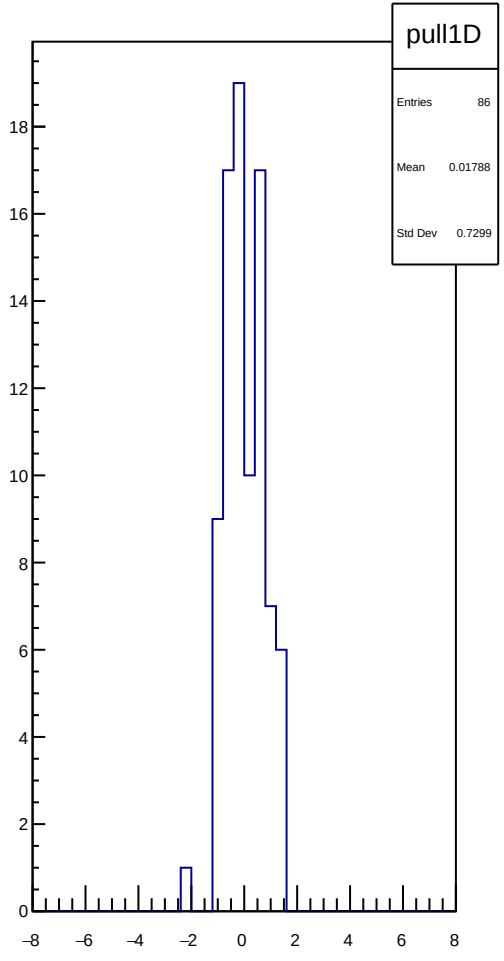

pull1D
Entries 86
Mean −0.0003033
Std Dev 1.033

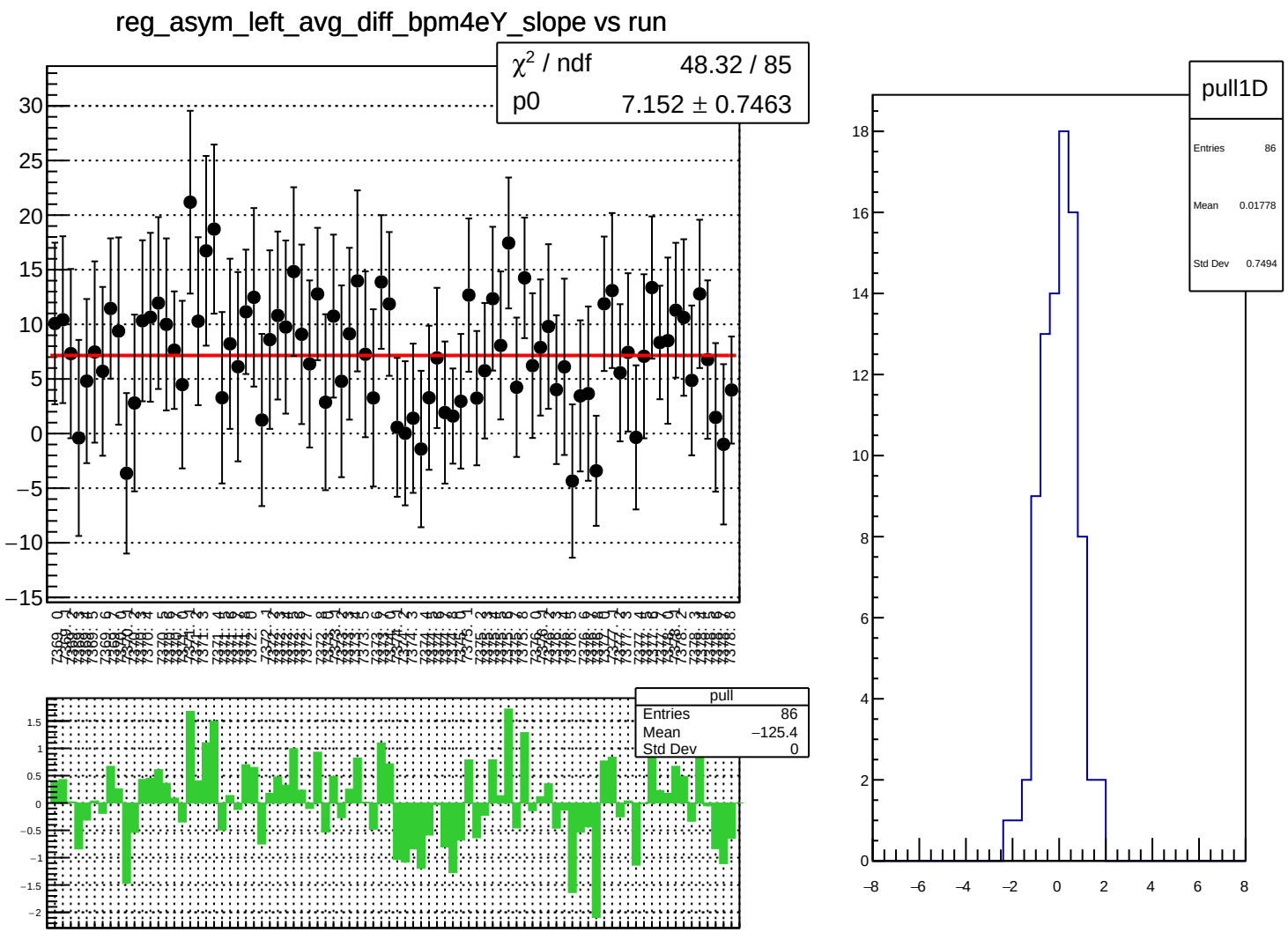

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 47.81 / 85
p0 −36.2 ± 0.6432
pull
Entries 86
Mean 171.8
Std Dev 0

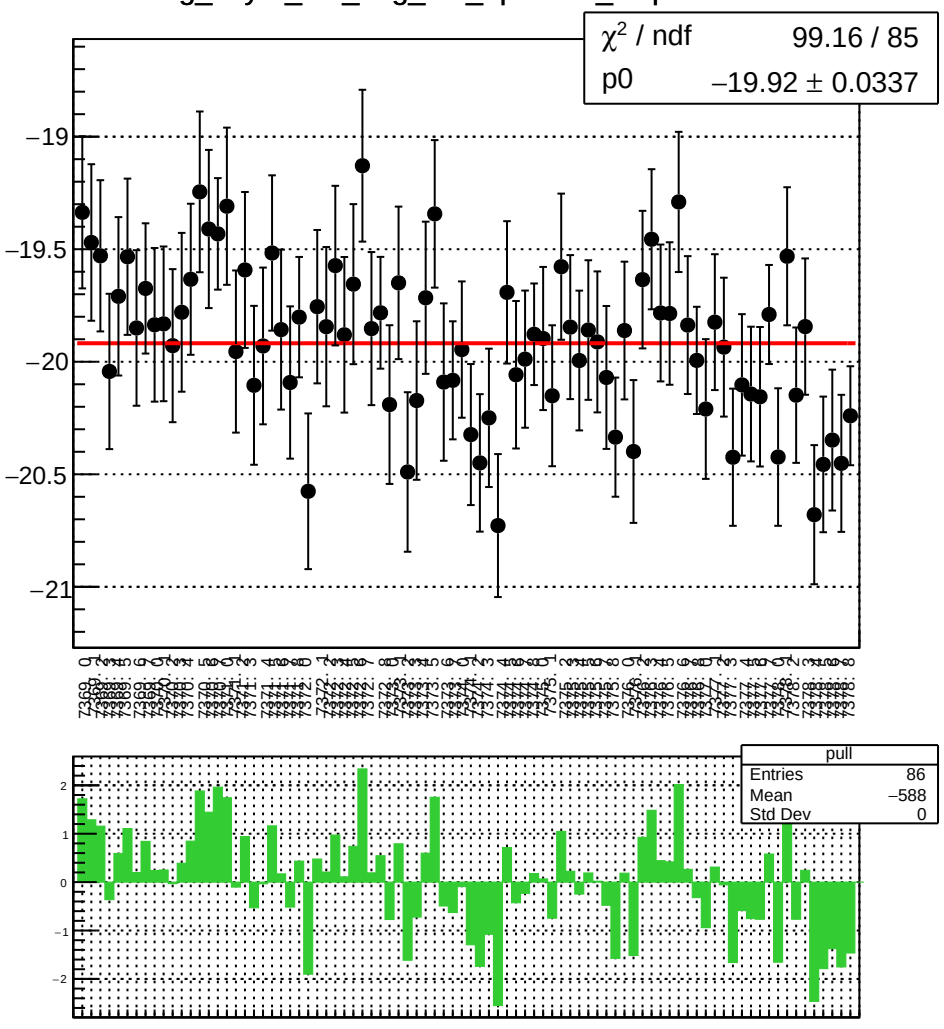

pull1D
Entries 86
Mean −0.01655
Std Dev 0.7454

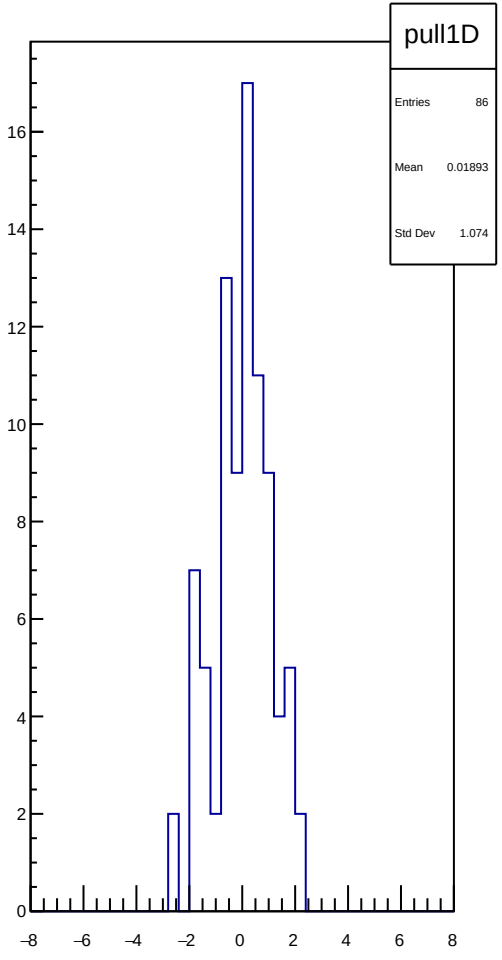

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.72 / 85
p0 2.742 ± 0.7035
pull
Entries 86
Mean −50.43
Std Dev 0
pull1D
Entries 86
Mean −0.0143
Std Dev 0.7369

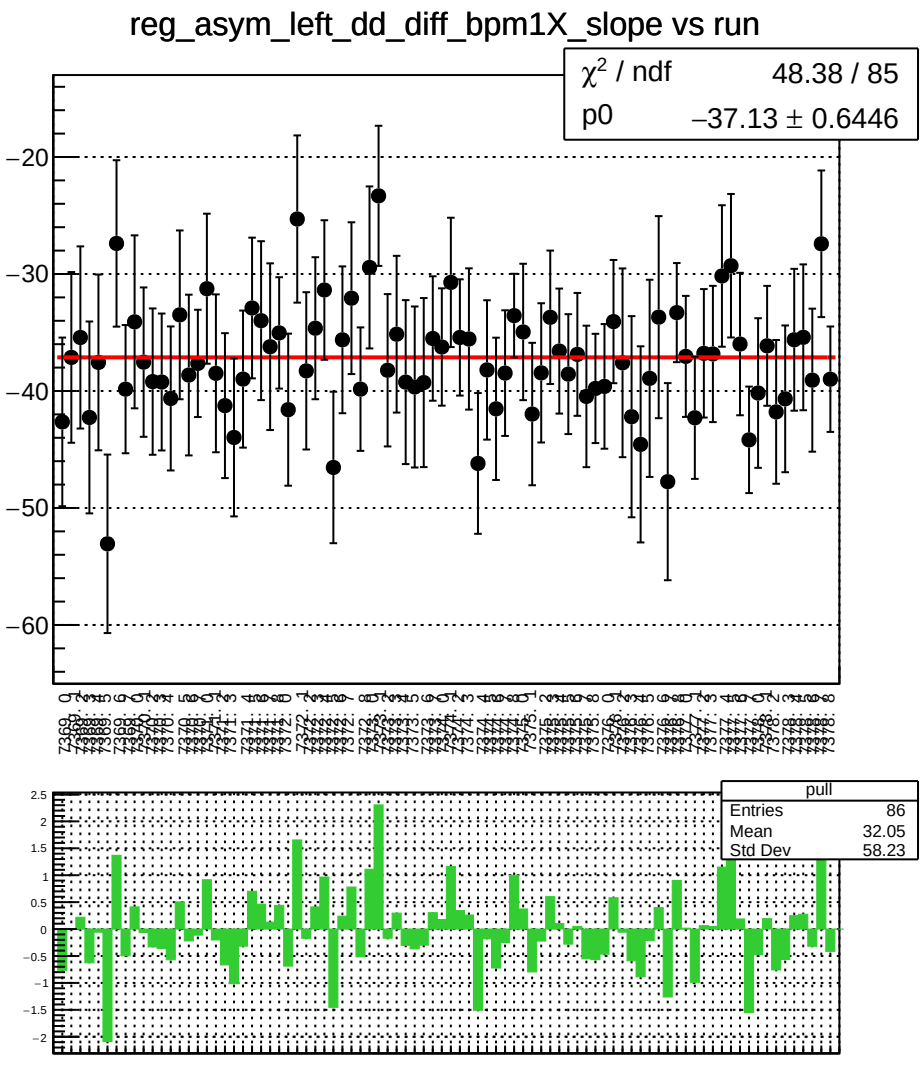

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.84 / 85
p0 8.085 ± 0.6673
pull
Entries 86
Mean 158.9
Std Dev 0

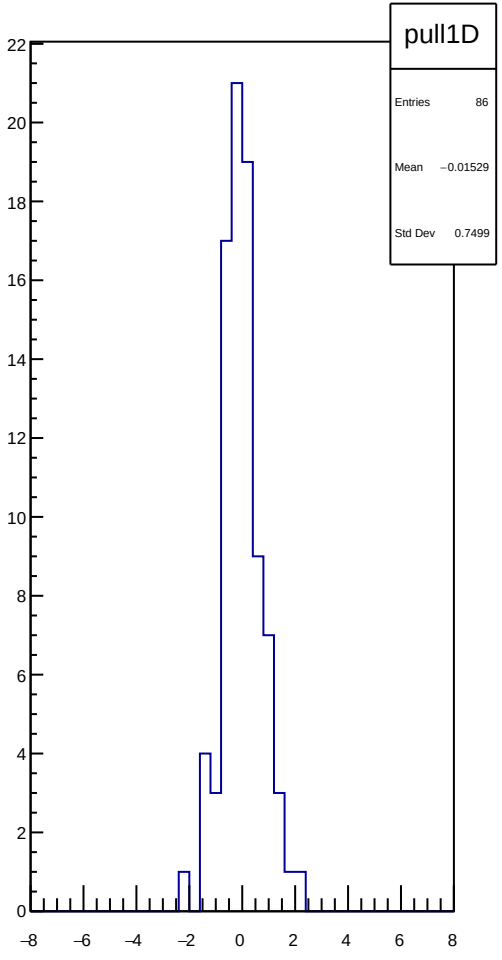

pull1D
Entries 86
Mean 0.01788
Std Dev 0.7299

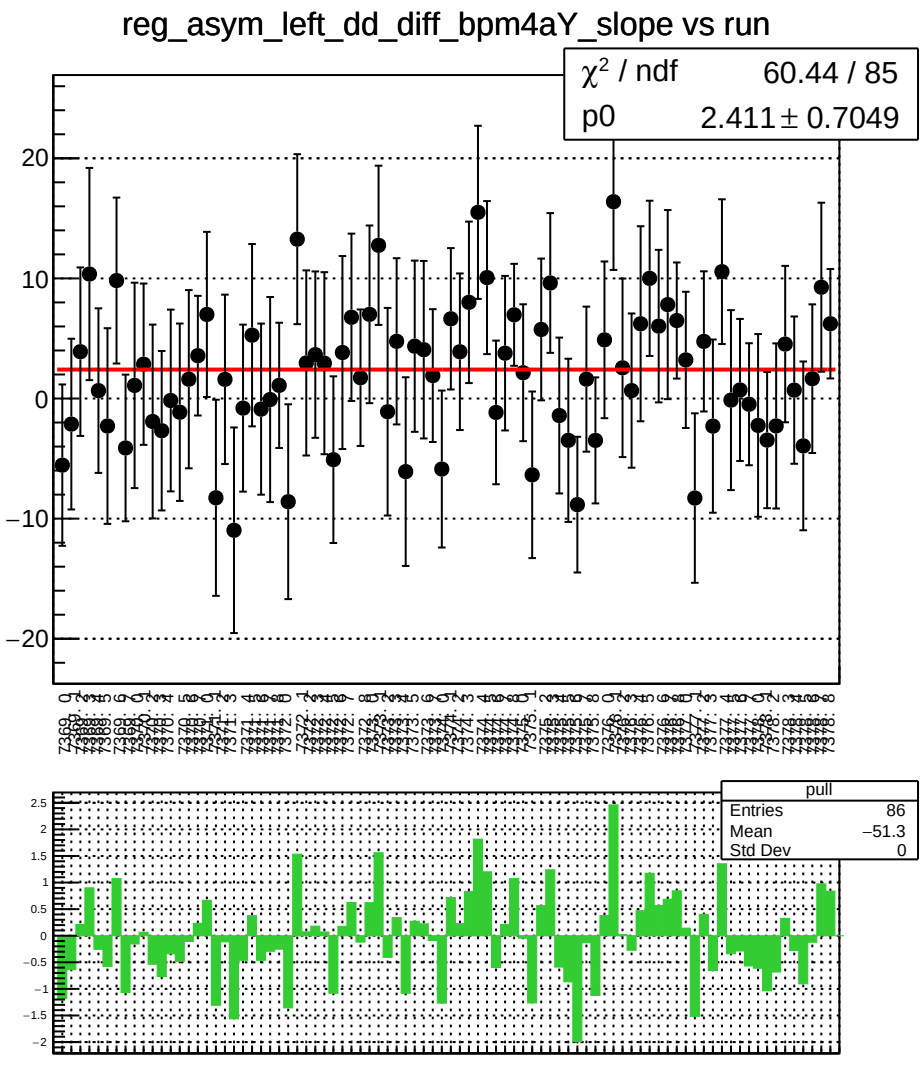

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 48.32 / 85
p0 7.152 ± 0.7463
pull
Entries 86
Mean −125.4
Std Dev 0
pull1D
Entries 86
Mean 0.01778
Std Dev 0.7494

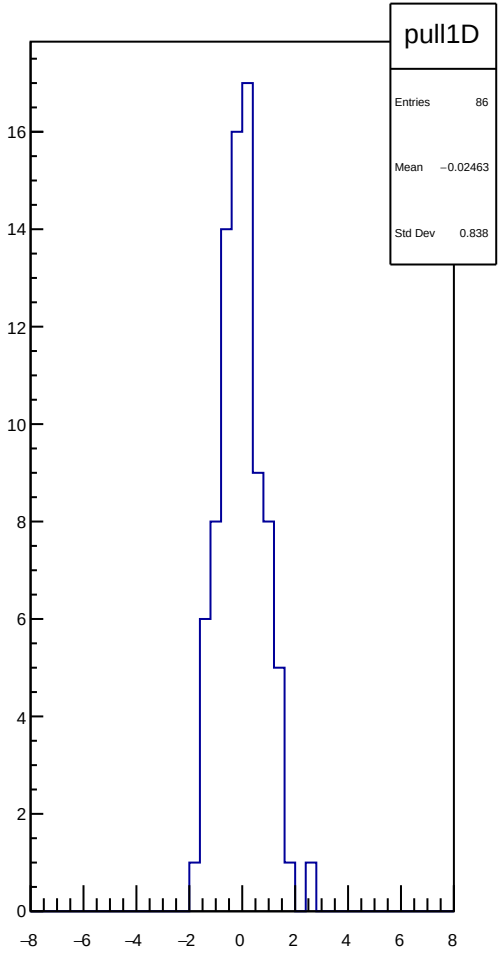

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 99.16 / 85
p0 −19.92 ± 0.0337
−19
−19.5
−20
−20.5
−21
pull
Entries 86
Mean −588
Std Dev 0
2
1
0
−1
−2

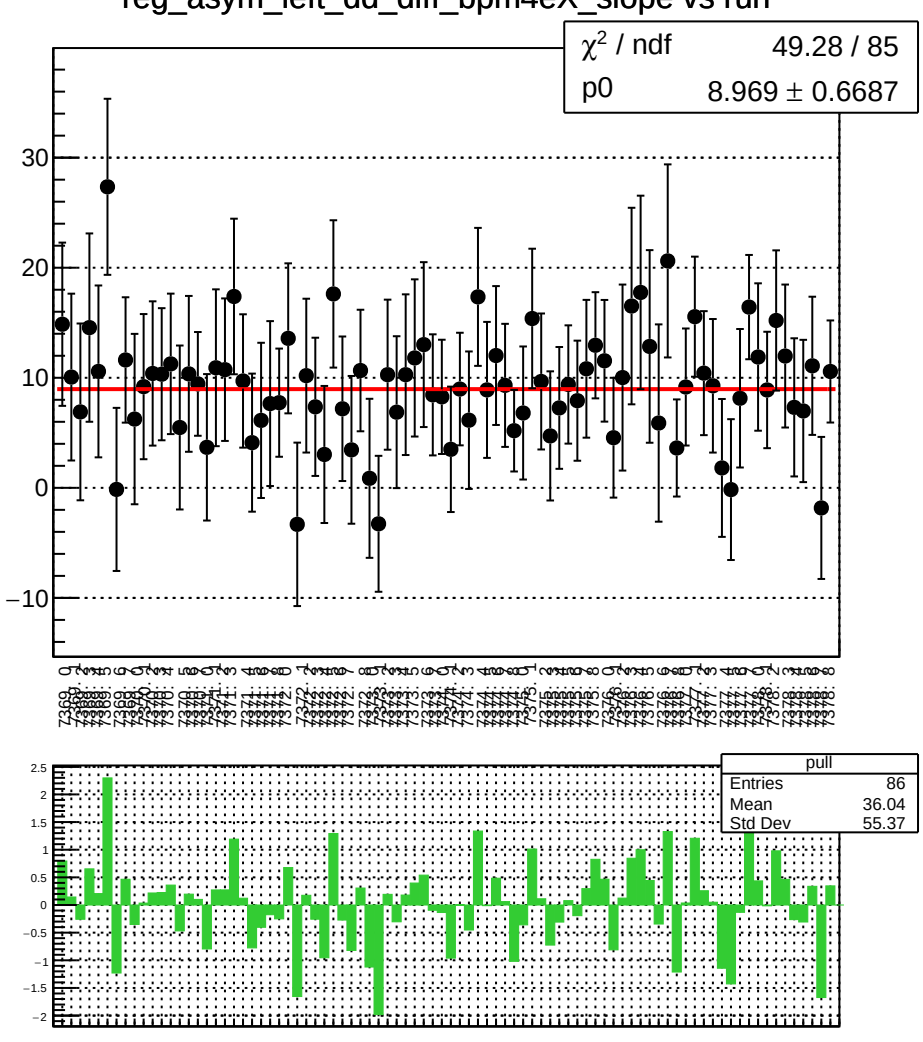

pull1D
Entries 86
Mean 0.01893
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

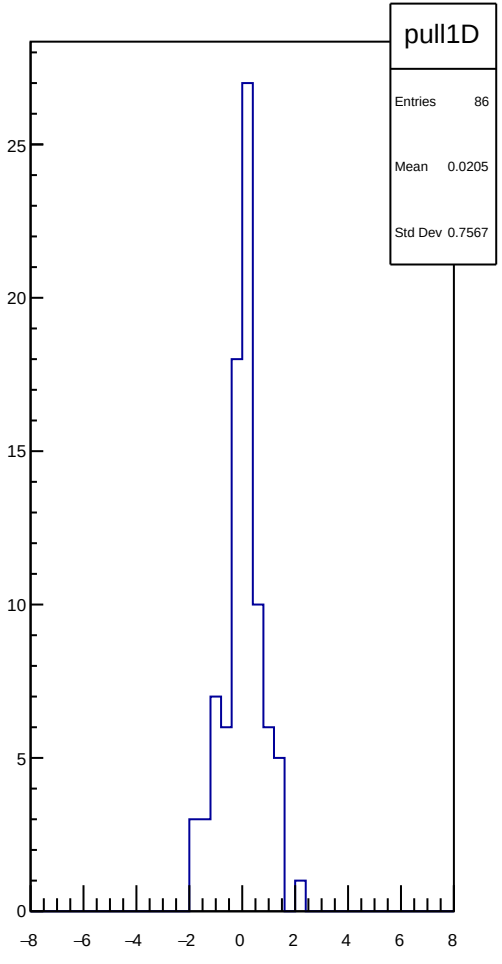

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 48.38 / 85
p0 −37.13 ± 0.6446
pull
Entries 86
Mean 32.05
Std Dev 58.23

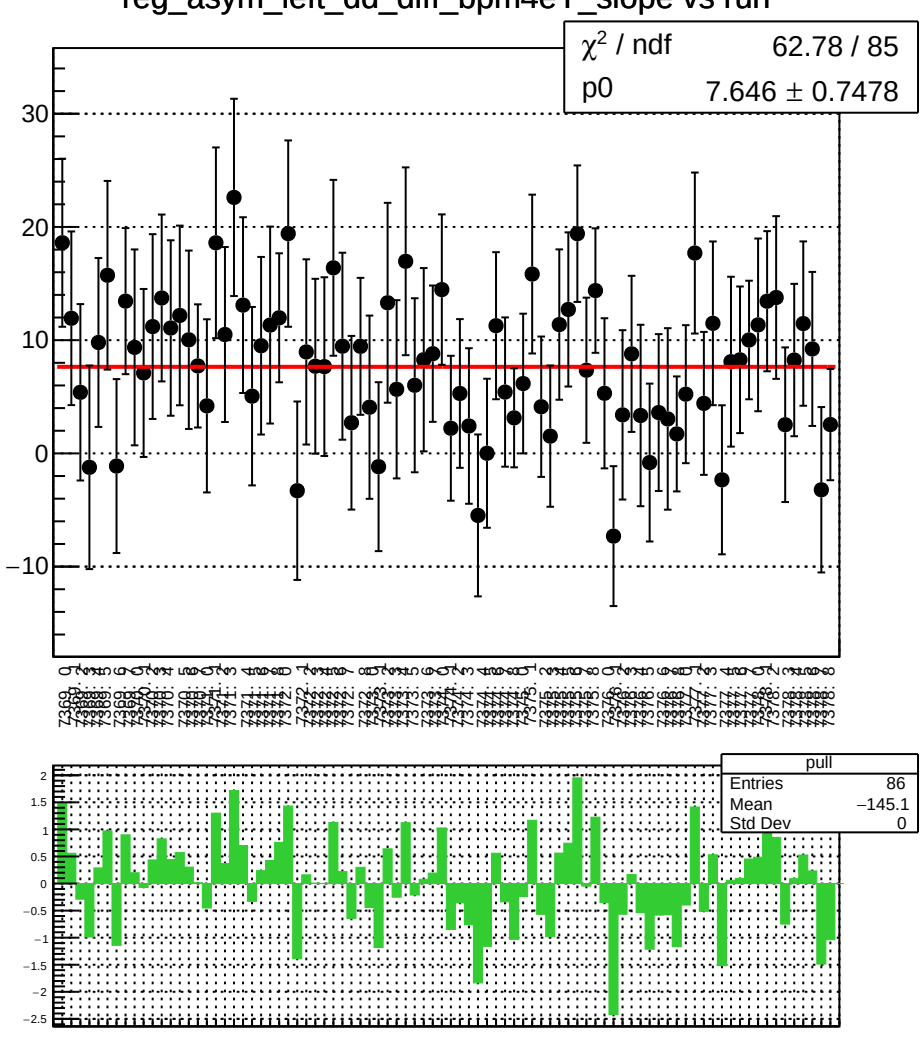

pull1D
Entries 86
Mean −0.01529
Std Dev 0.7499

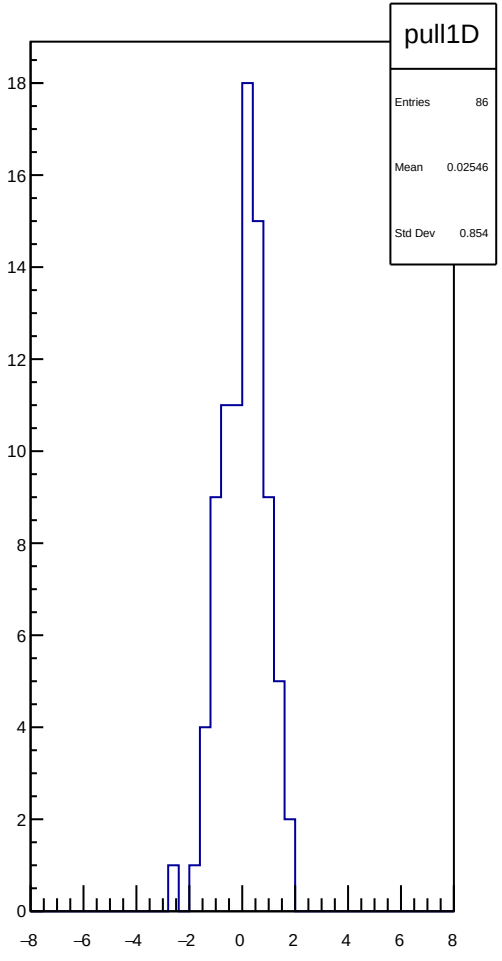

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.44 / 85
p0 2.411 ± 0.7049
pull
Entries 86
Mean −51.3
Std Dev 0

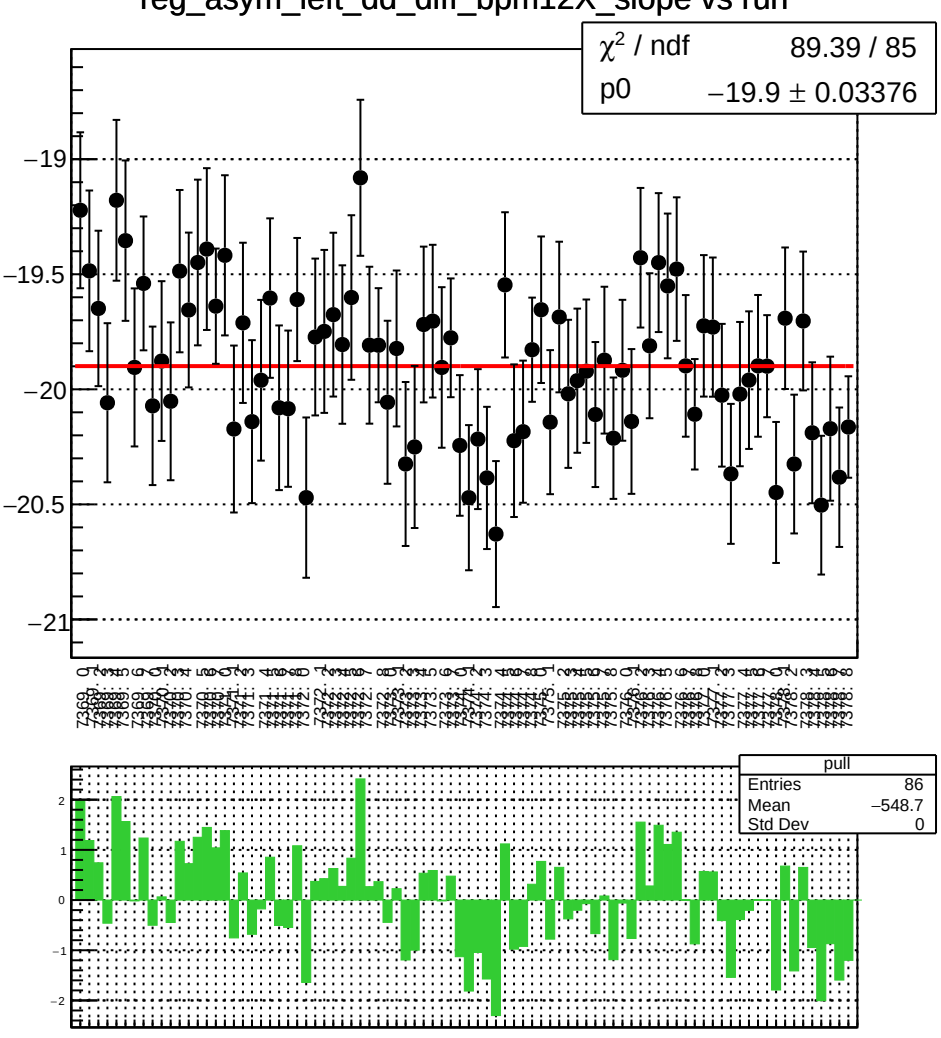

pull1D
Entries 86
Mean −0.02463
Std Dev 0.838

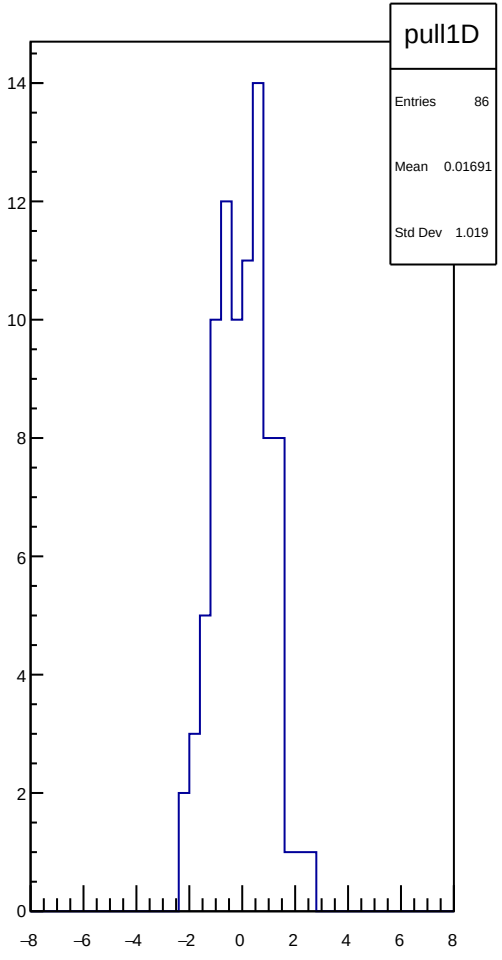

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.28 / 85
p0 8.969 ± 0.6687
pull
Entries 86
Mean 36.04
Std Dev 55.37

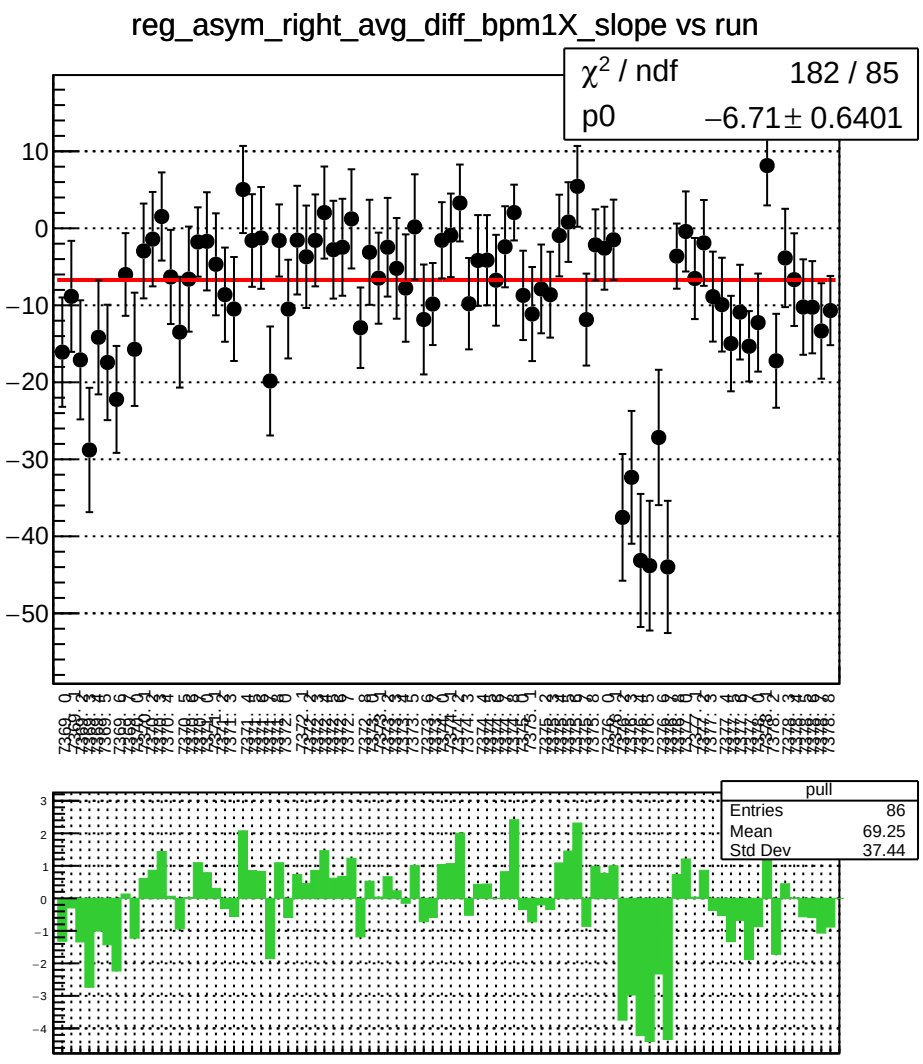

pull1D
Entries 86
Mean 0.0205
Std Dev 0.7567

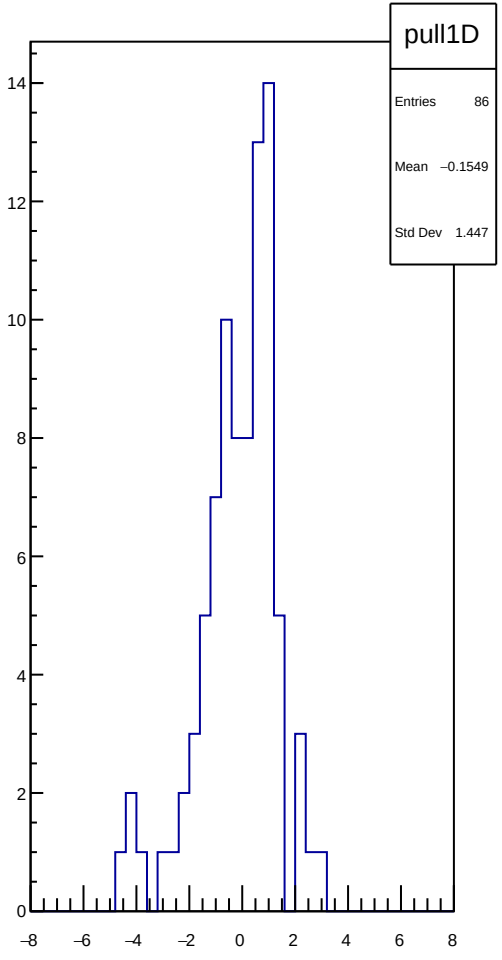

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.78 / 85
p0 7.646 ± 0.7478
pull
Entries 86
Mean −145.1
Std Dev 0

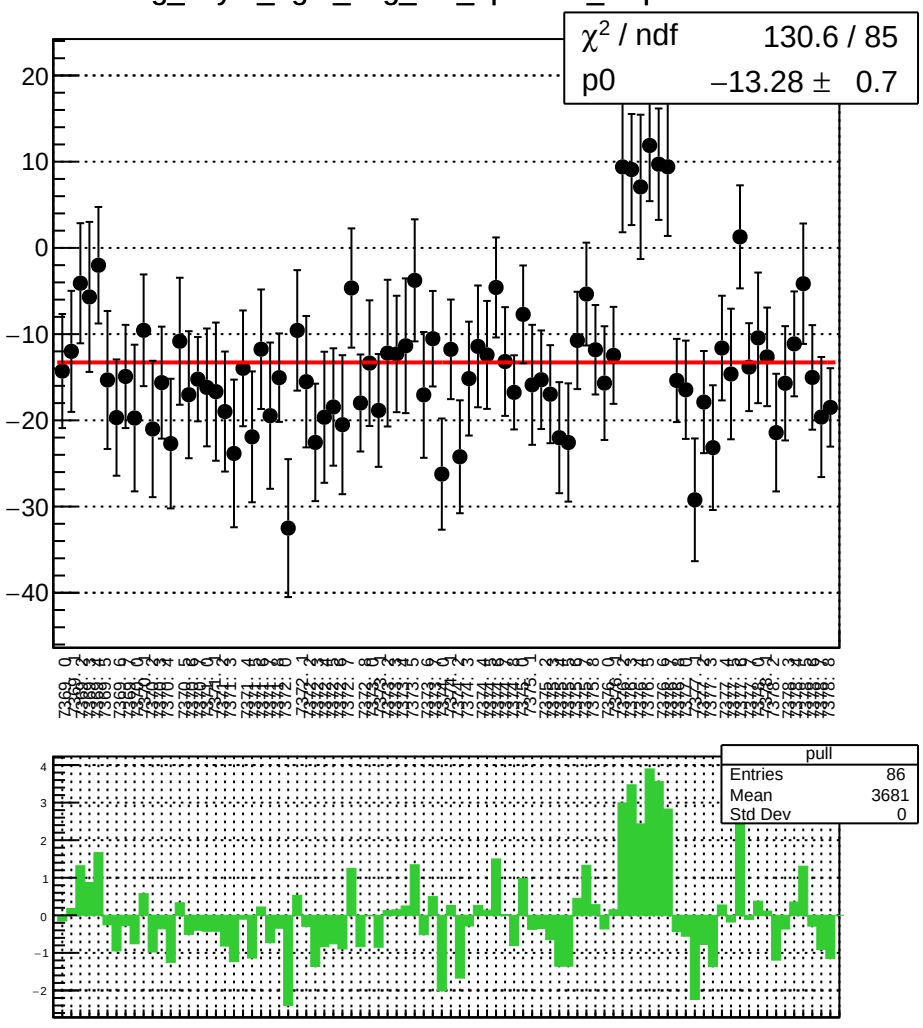

pull1D
Entries 86
Mean 0.02546
Std Dev 0.854

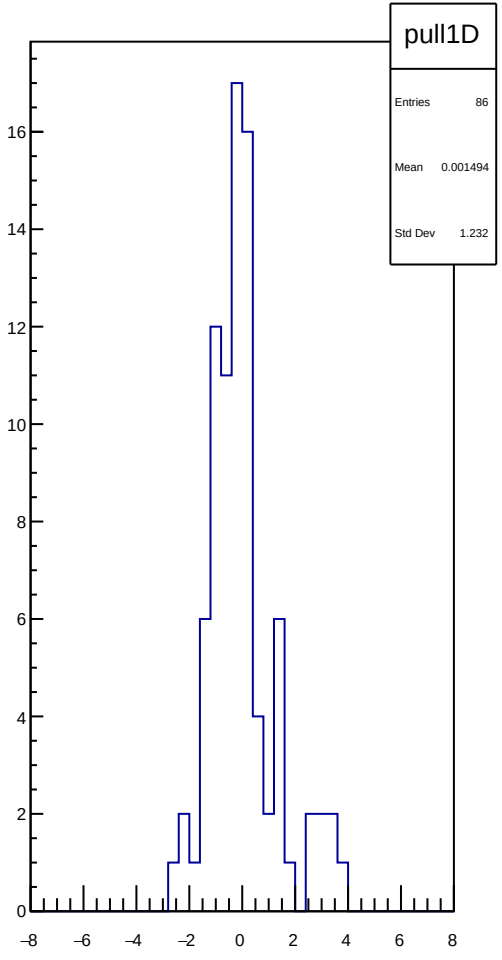

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 89.39 / 85
p0 −19.9 ± 0.03376
−19
−19.5
−20
−20.5
−21
pull
Entries 86
Mean −548.7
Std Dev 0
2
1
0
−1
−2

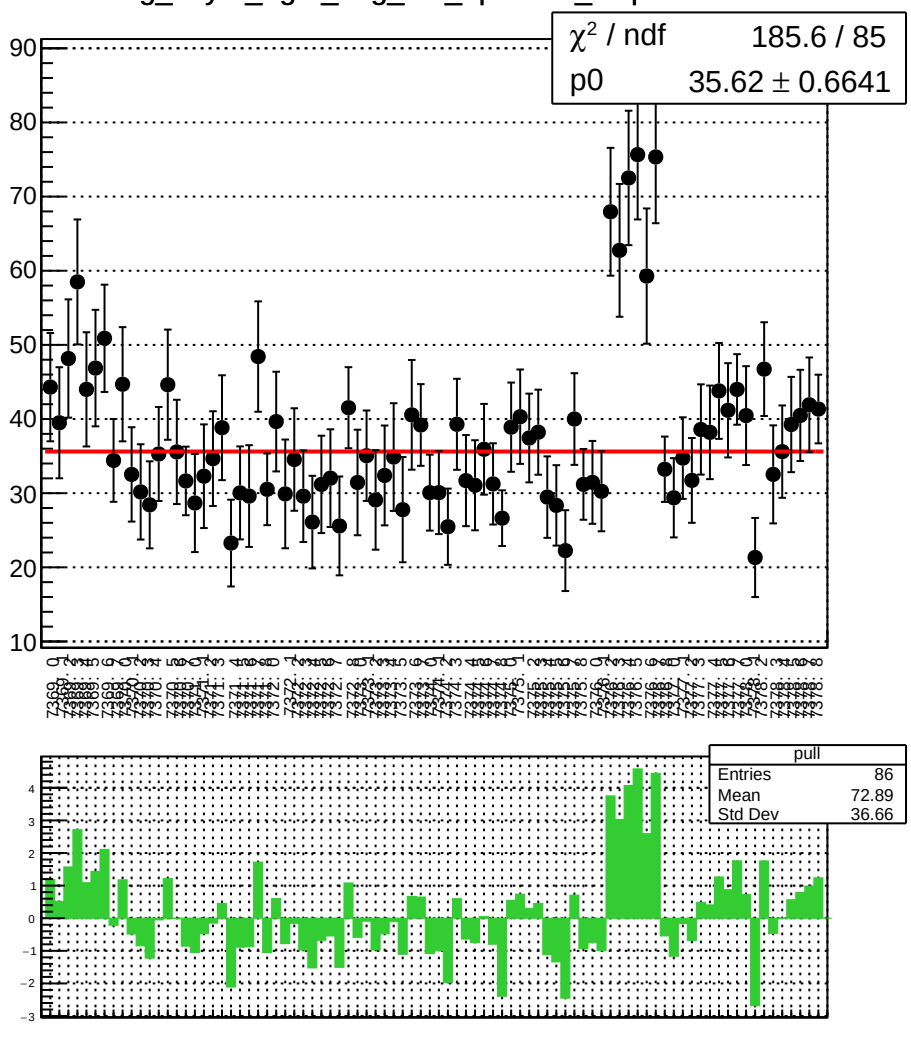

pull1D
Entries 86
Mean 0.01691
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

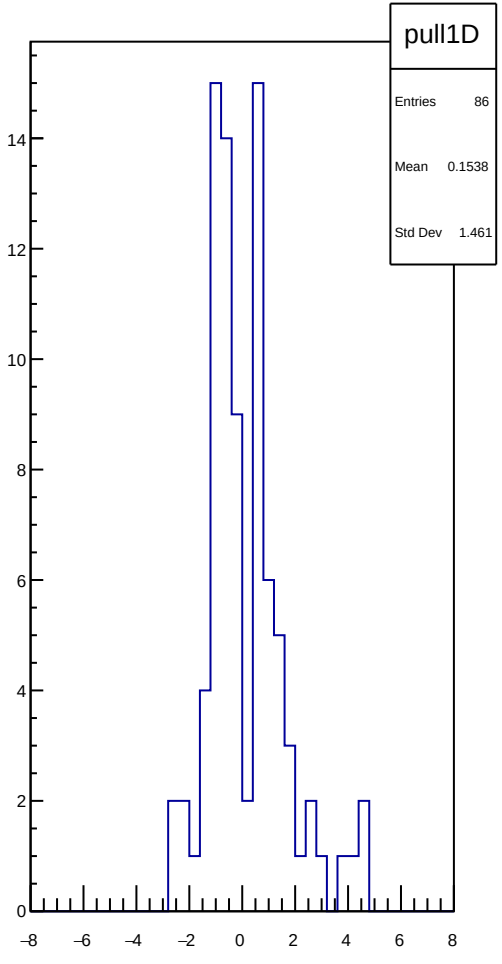

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 182 / 85
p0 −6.71 ± 0.6401
pull
Entries 86
Mean 69.25
Std Dev 37.44

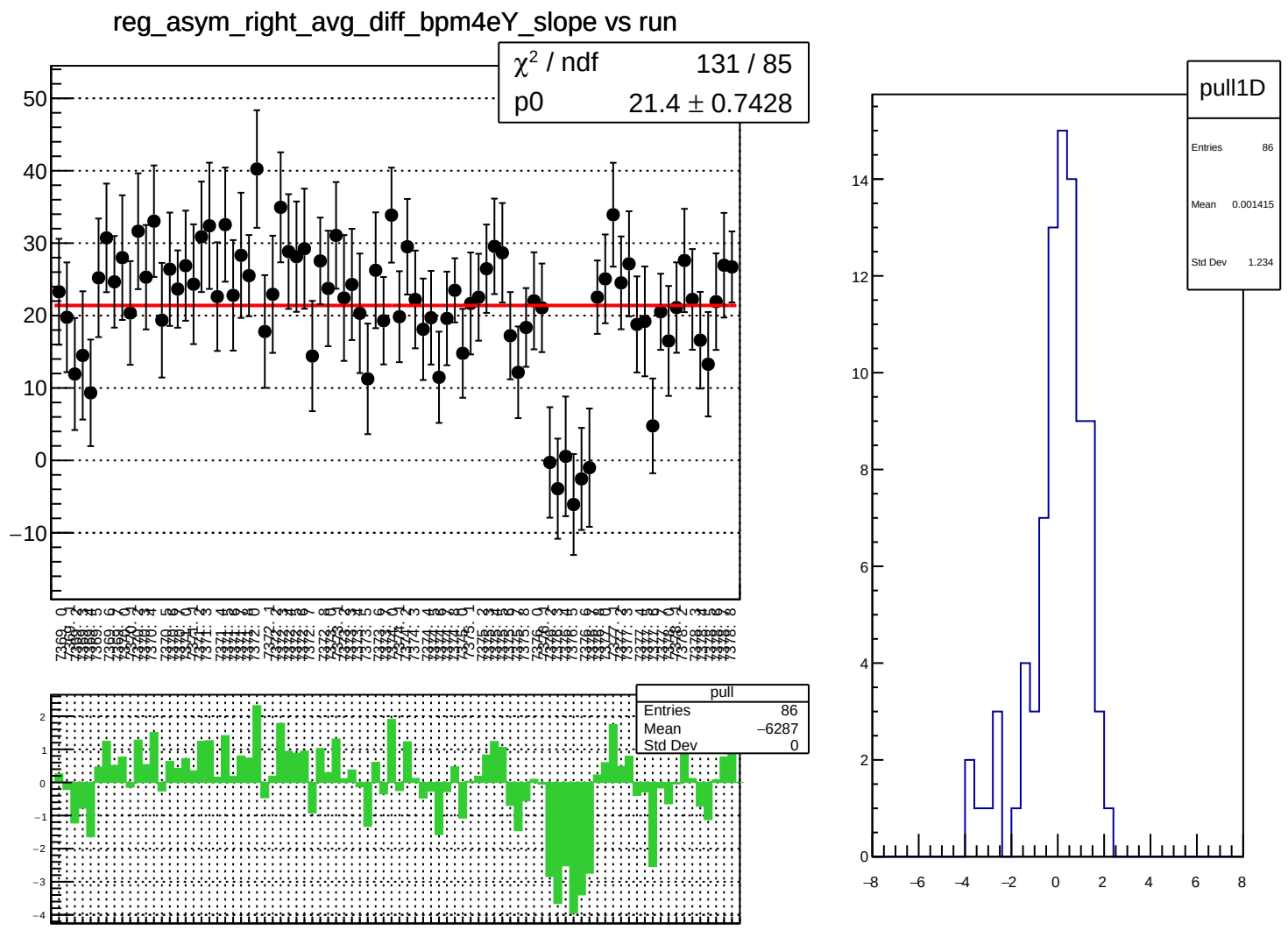

pull1D
Entries 86
Mean −0.1549
Std Dev 1.447

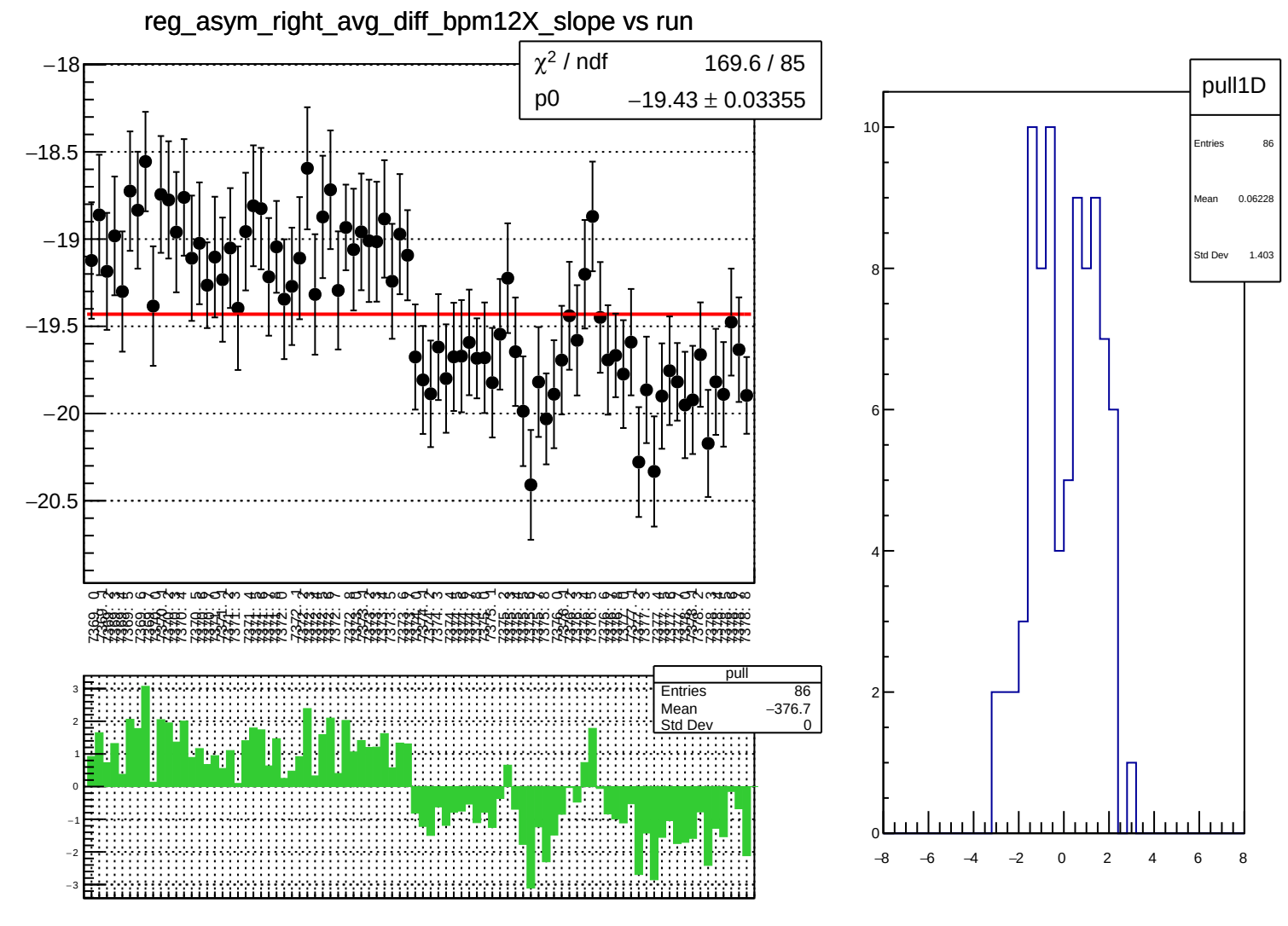

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 130.6 / 85
p0 −13.28 ± 0.7
pull
Entries 86
Mean 3681
Std Dev 0

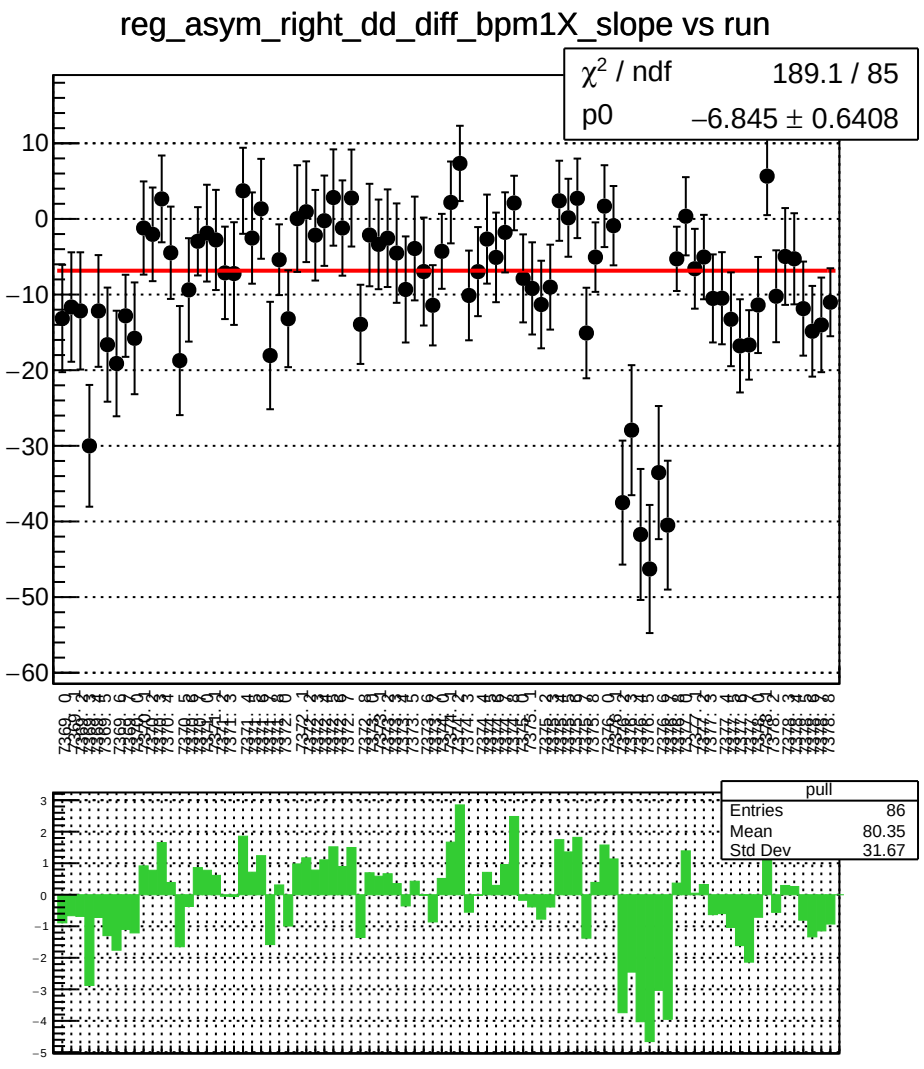

pull1D
Entries 86
Mean 0.001494
Std Dev 1.232

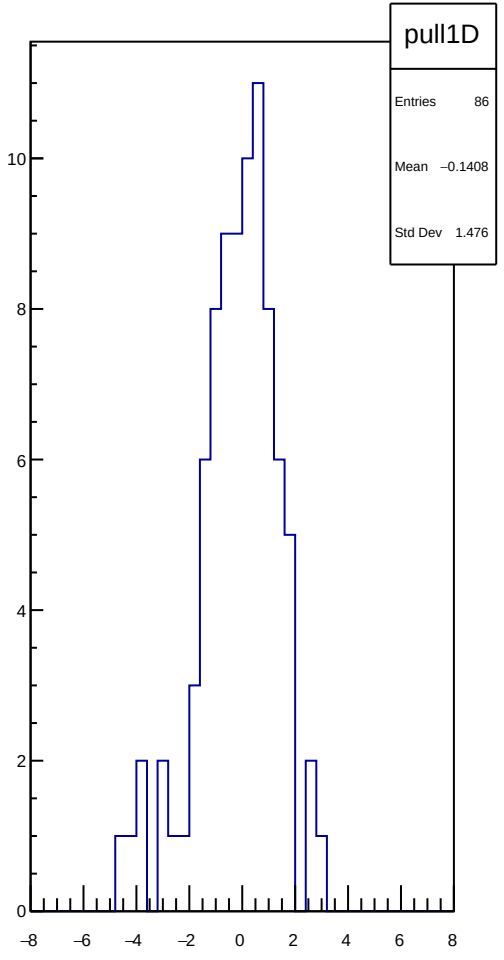

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 185.6 / 85
p0 35.62 ± 0.6641
pull
Entries 86
Mean 72.89
Std Dev 36.66

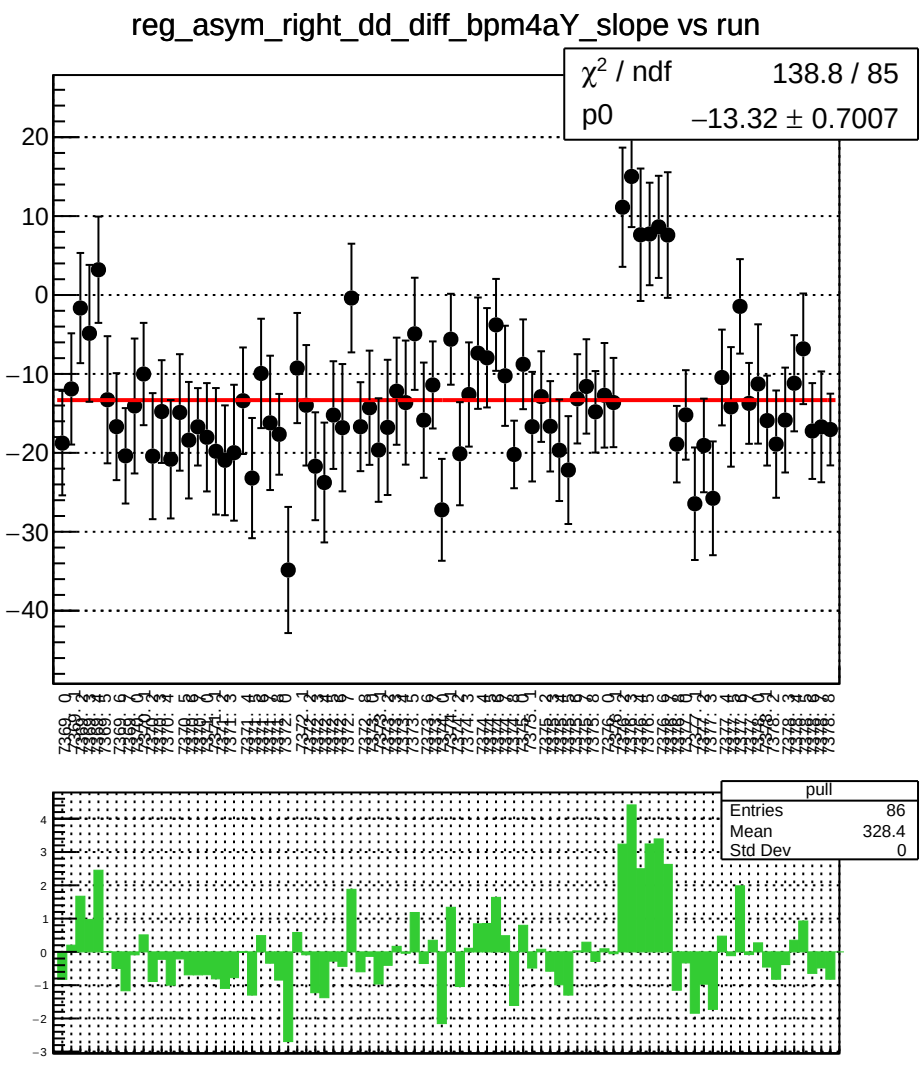

pull1D
Entries 86
Mean 0.1538
Std Dev 1.461

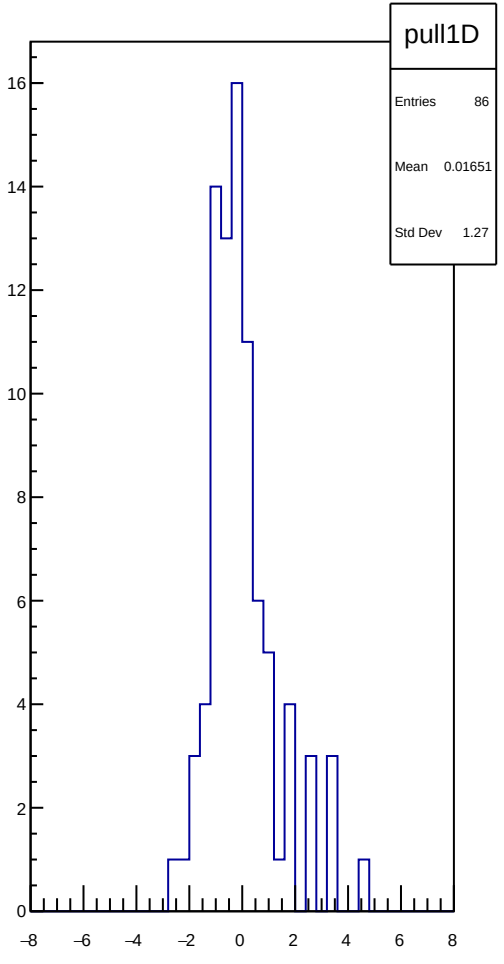

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 131 / 85
p0 21.4 ± 0.7428
pull
Entries 86
Mean −6287
Std Dev 0
pull1D
Entries 86
Mean 0.001415
Std Dev 1.234

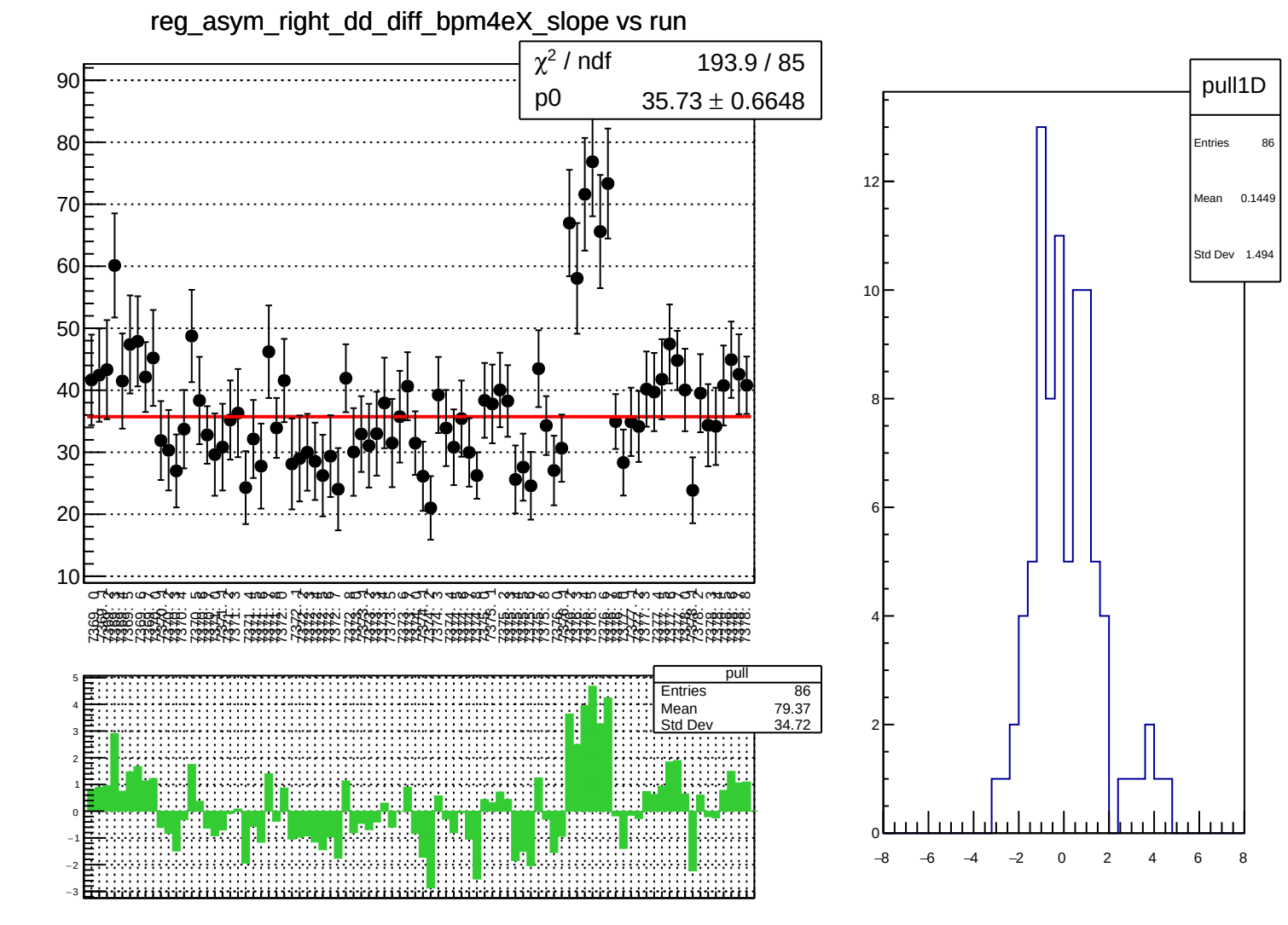

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 169.6 / 85
p0 −19.43 ± 0.03355
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 86
Mean −376.7
Std Dev 0
pull1D
Entries 86
Mean 0.06228
Std Dev 1.403

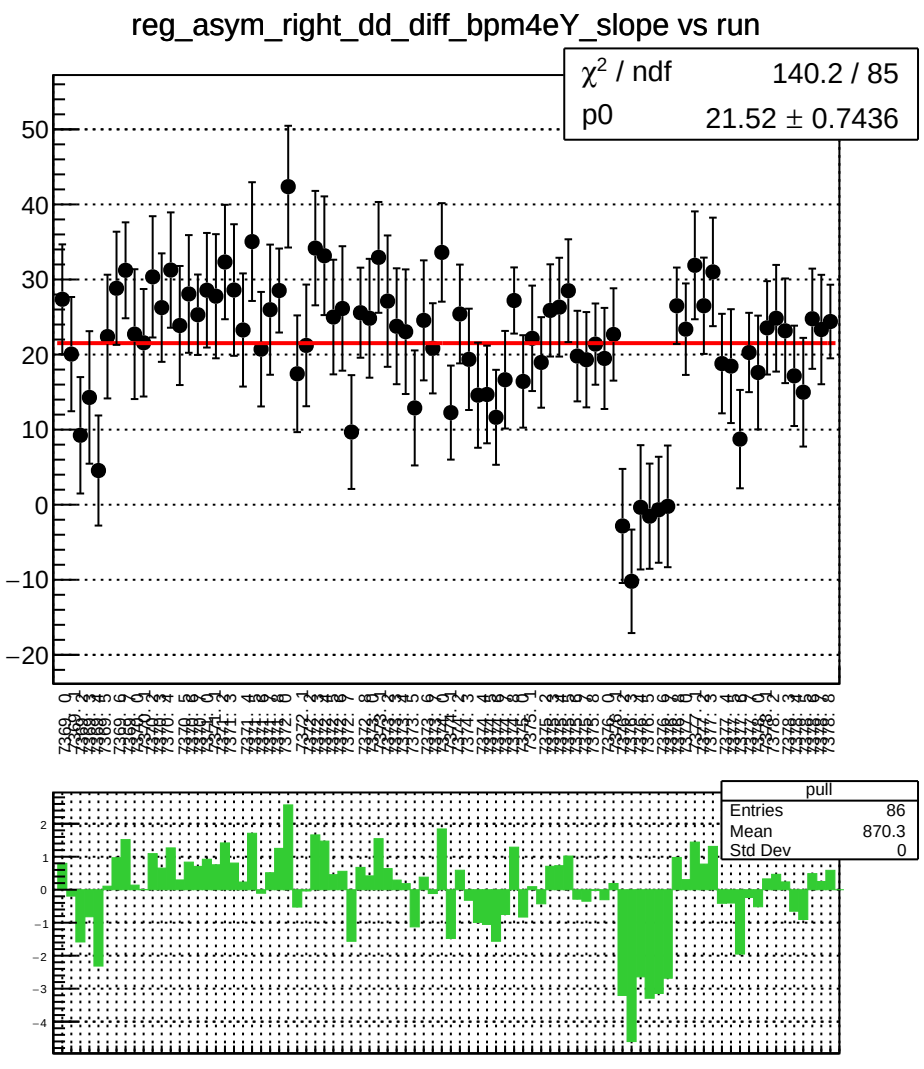

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 189.1 / 85
p0 −6.845 ± 0.6408
pull
Entries 86
Mean 80.35
Std Dev 31.67

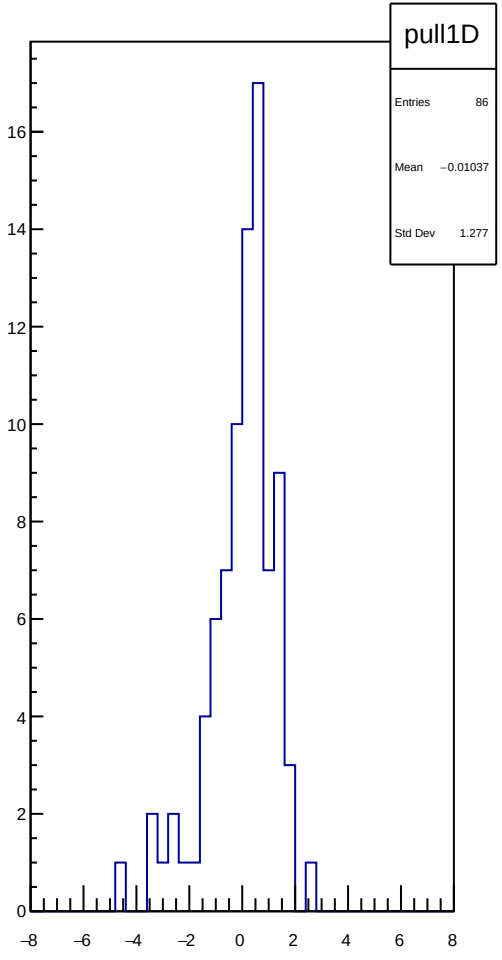

pull1D
Entries 86
Mean −0.1408
Std Dev 1.476

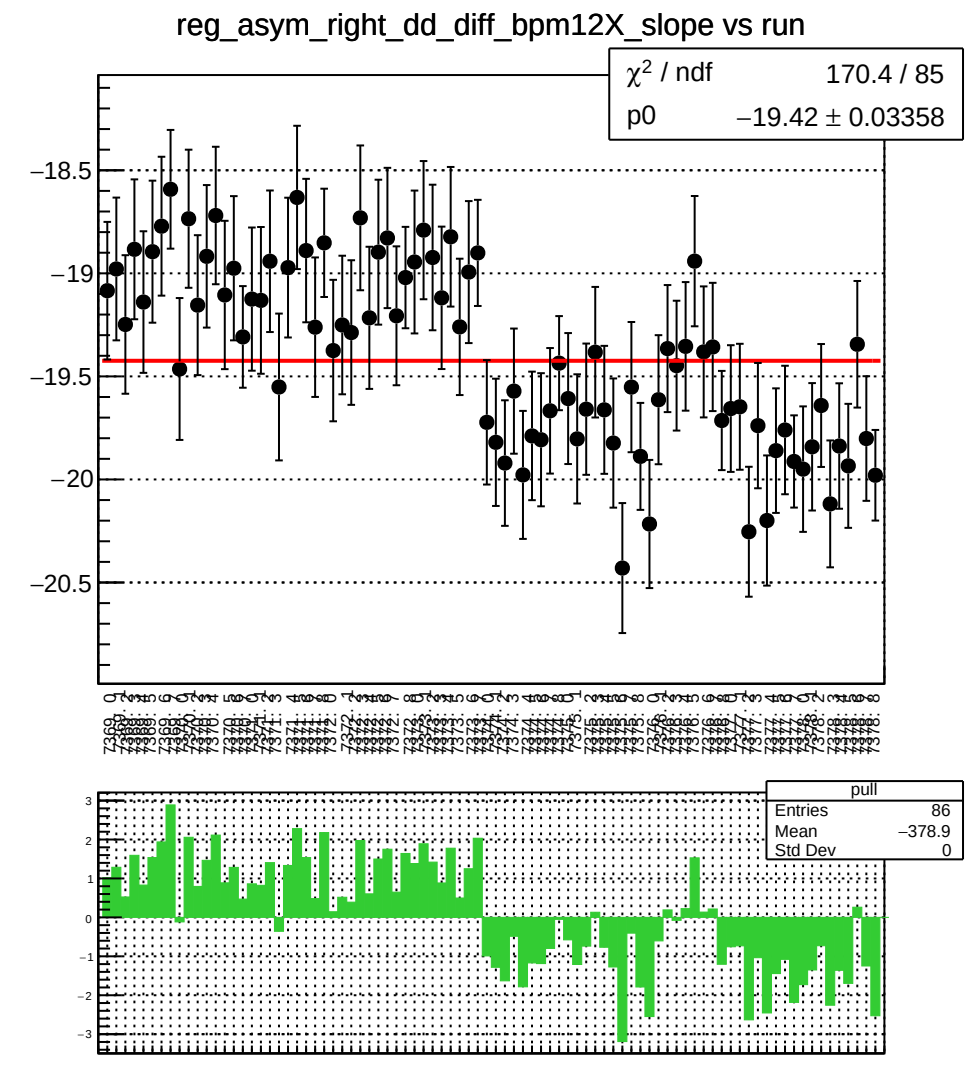

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 138.8 / 85
p0 −13.32 ± 0.7007
pull
Entries 86
Mean 328.4
Std Dev 0

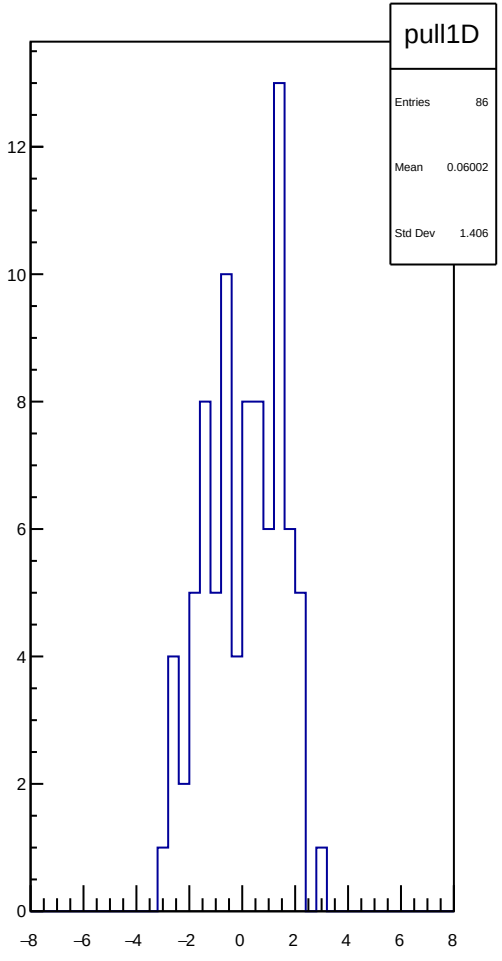

pull1D
Entries 86
Mean 0.01651
Std Dev 1.27

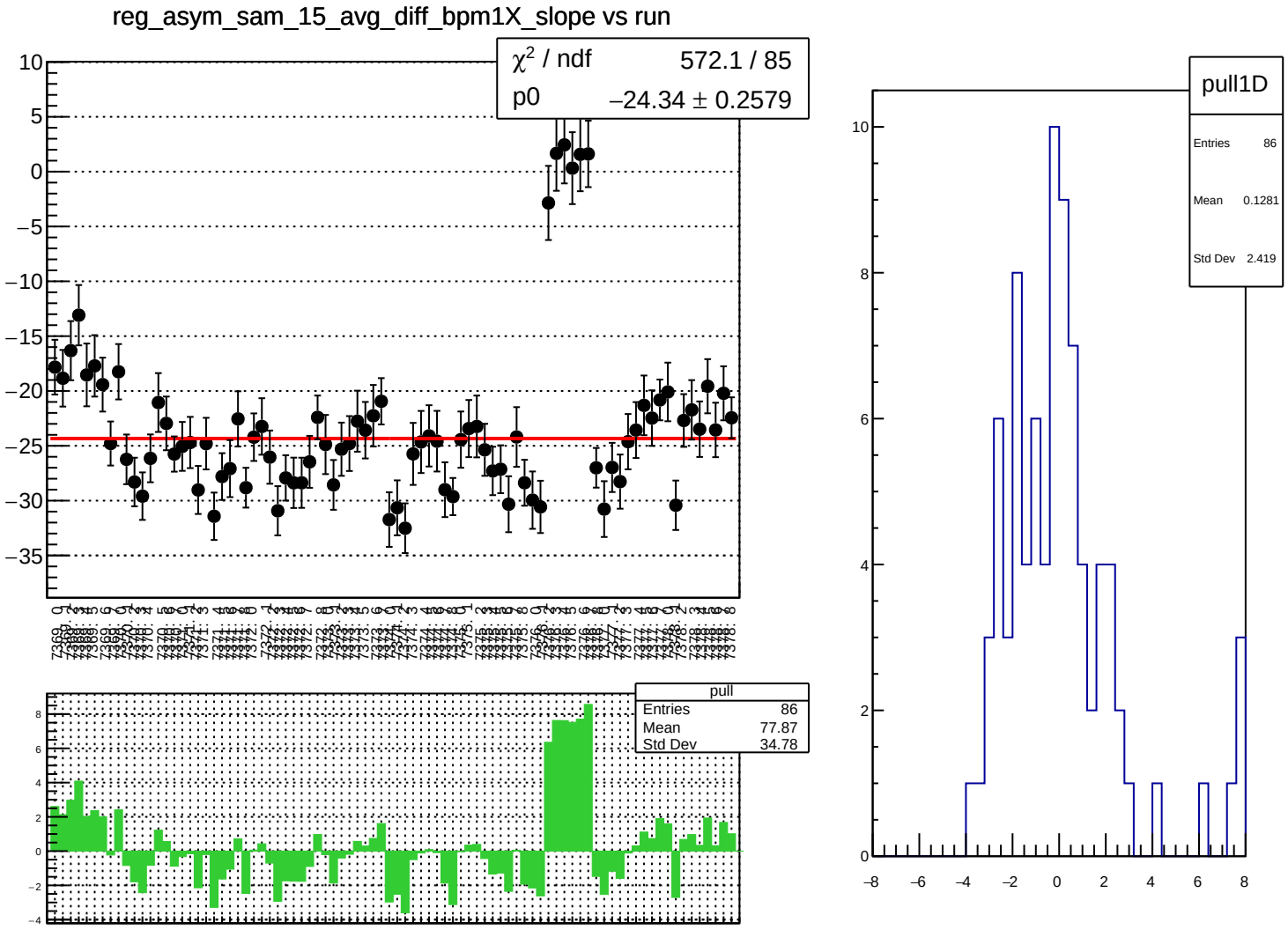

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 193.9 / 85
p0 35.73 ± 0.6648
pull
Entries 86
Mean 79.37
Std Dev 34.72
pull1D
Entries 86
Mean 0.1449
Std Dev 1.494

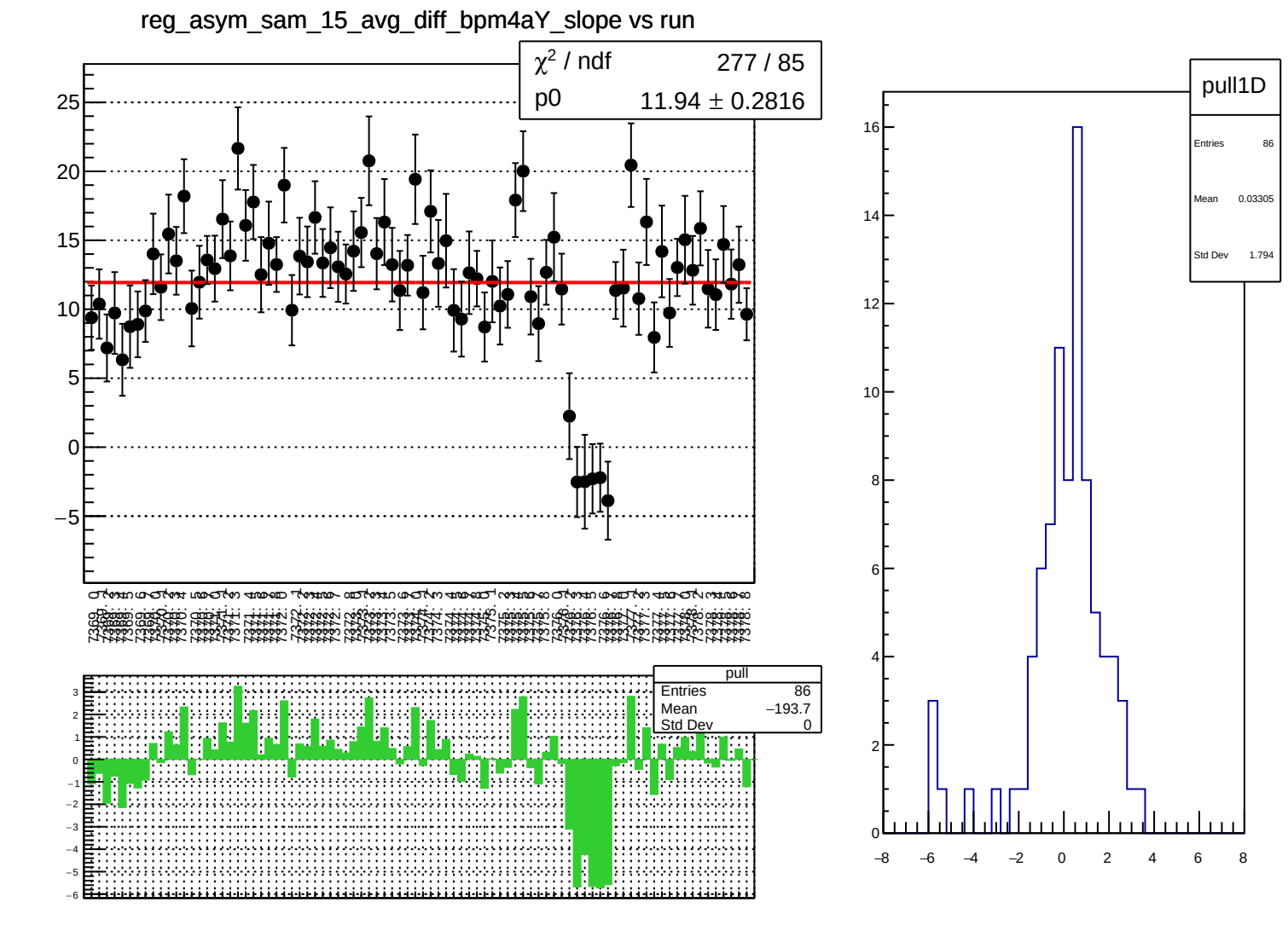

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 140.2 / 85
p0 21.52 ± 0.7436
pull
Entries 86
Mean 870.3
Std Dev 0

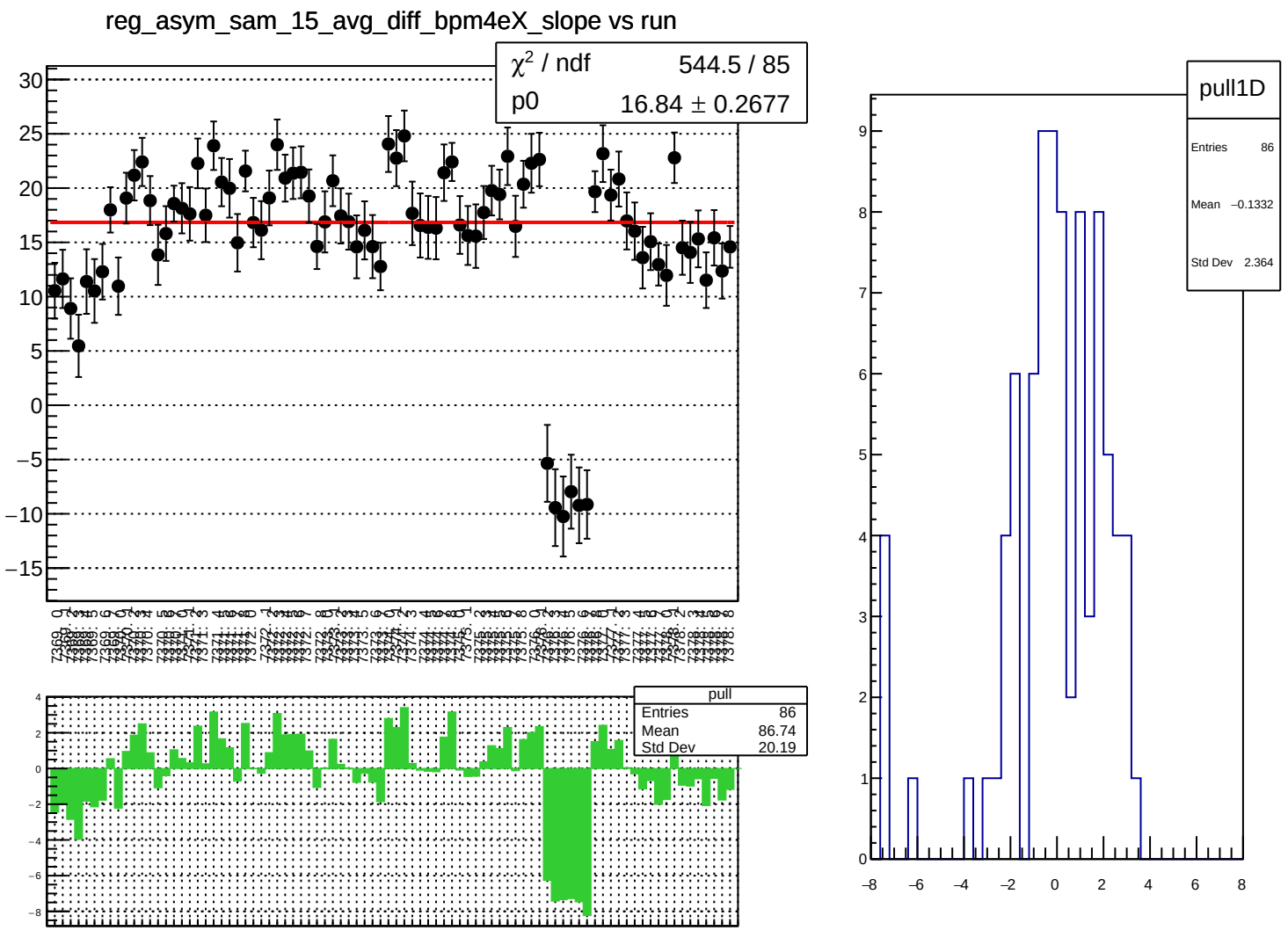

pull1D
Entries 86
Mean −0.01037
Std Dev 1.277

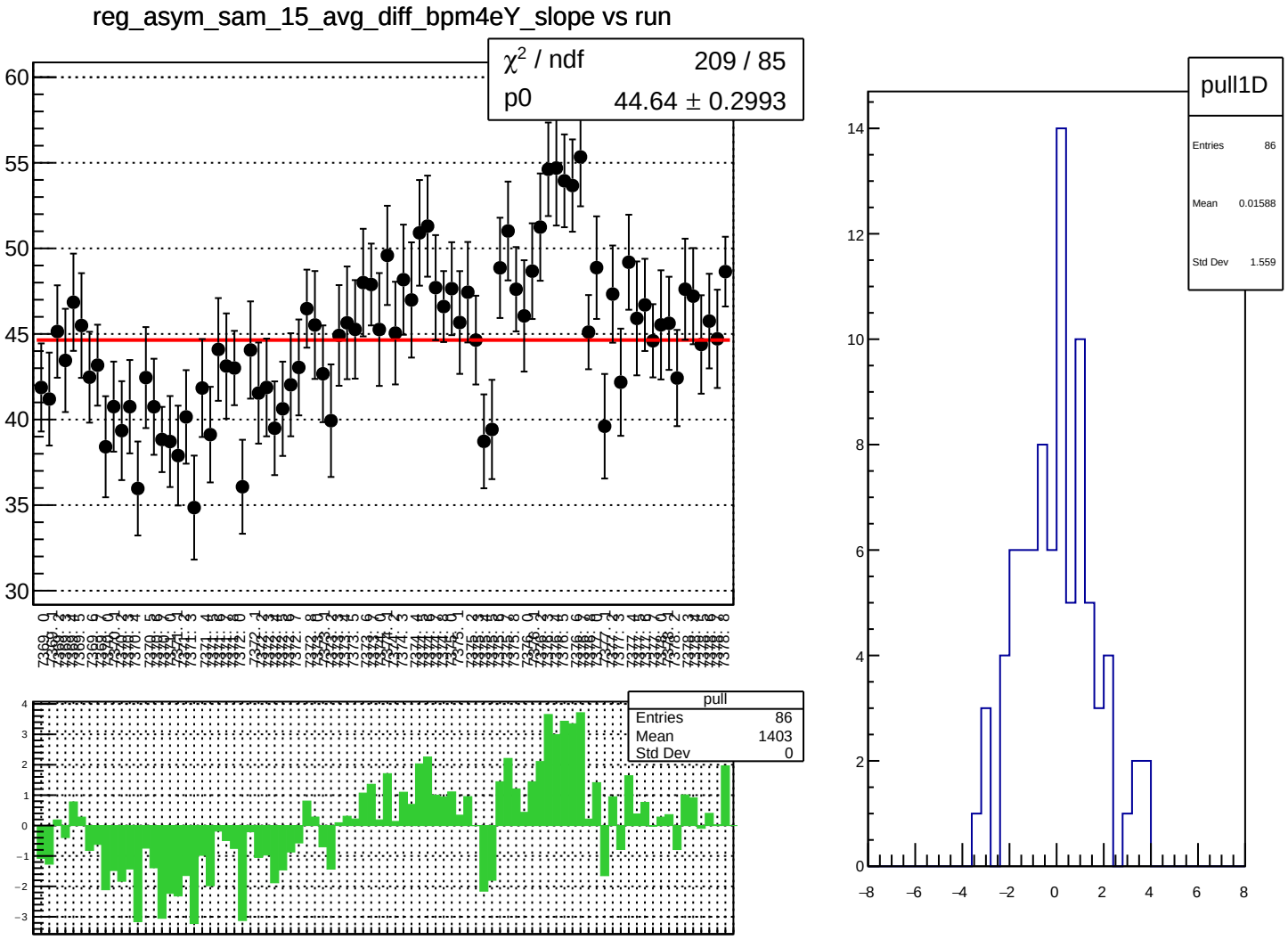

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 170.4 / 85
p0 −19.42 ± 0.03358
−18.5
−19
−19.5
−20
−20.5
pull
Entries 86
Mean −378.9
Std Dev 0

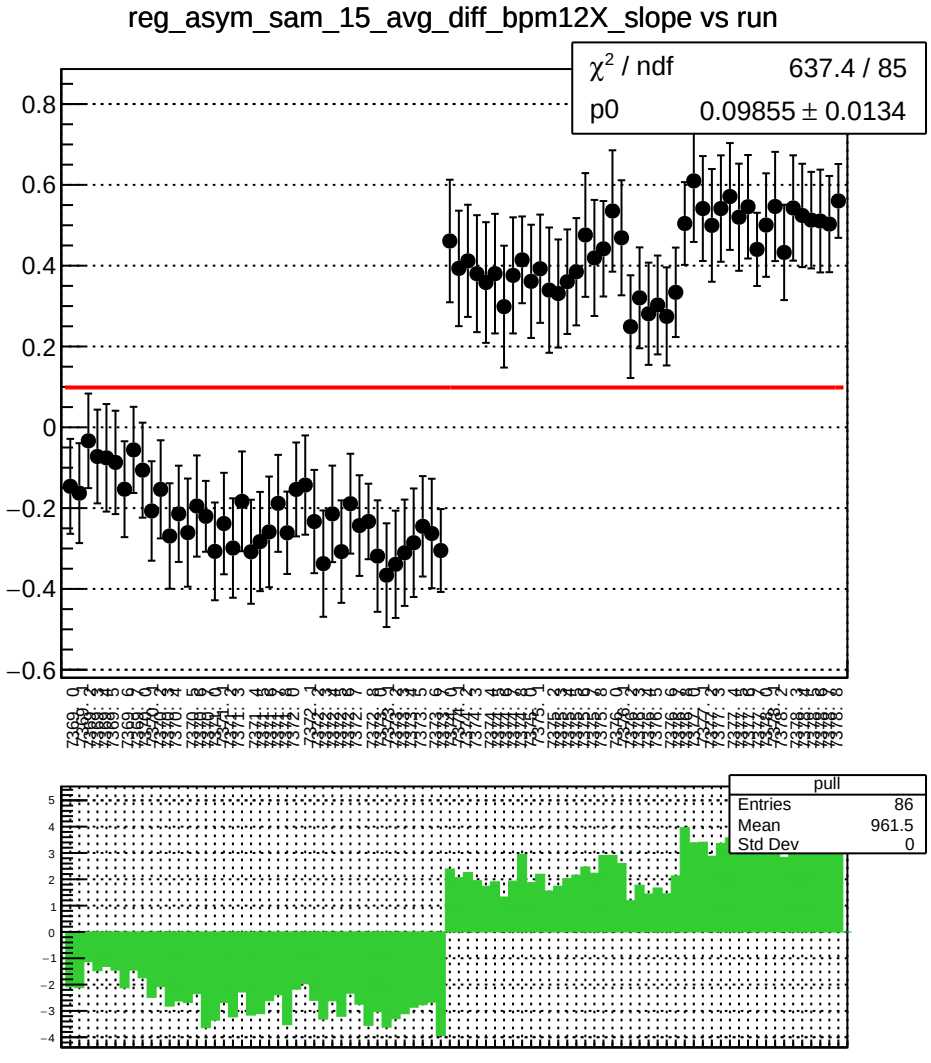

pull1D
Entries 86
Mean 0.06002
Std Dev 1.406

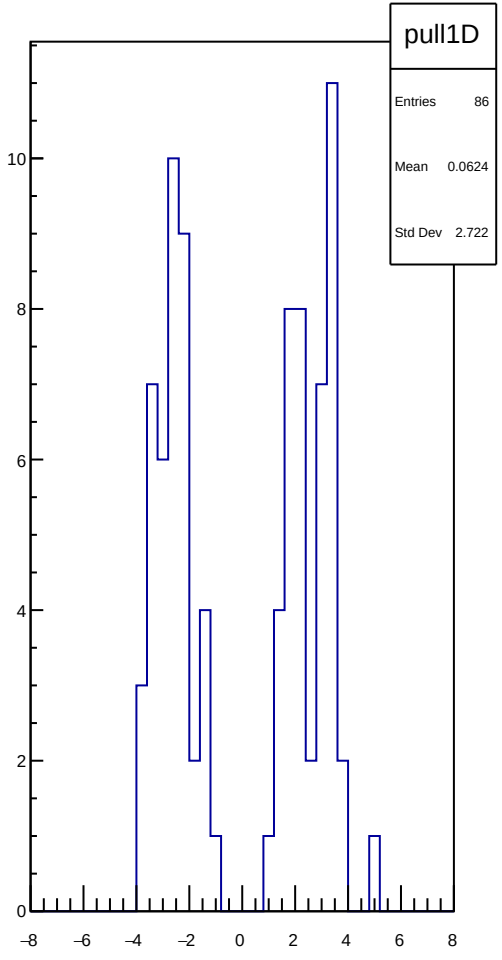

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 572.1 / 85
p0 −24.34 ± 0.2579
pull
Entries 86
Mean 77.87
Std Dev 34.78
pull1D
Entries 86
Mean 0.1281
Std Dev 2.419

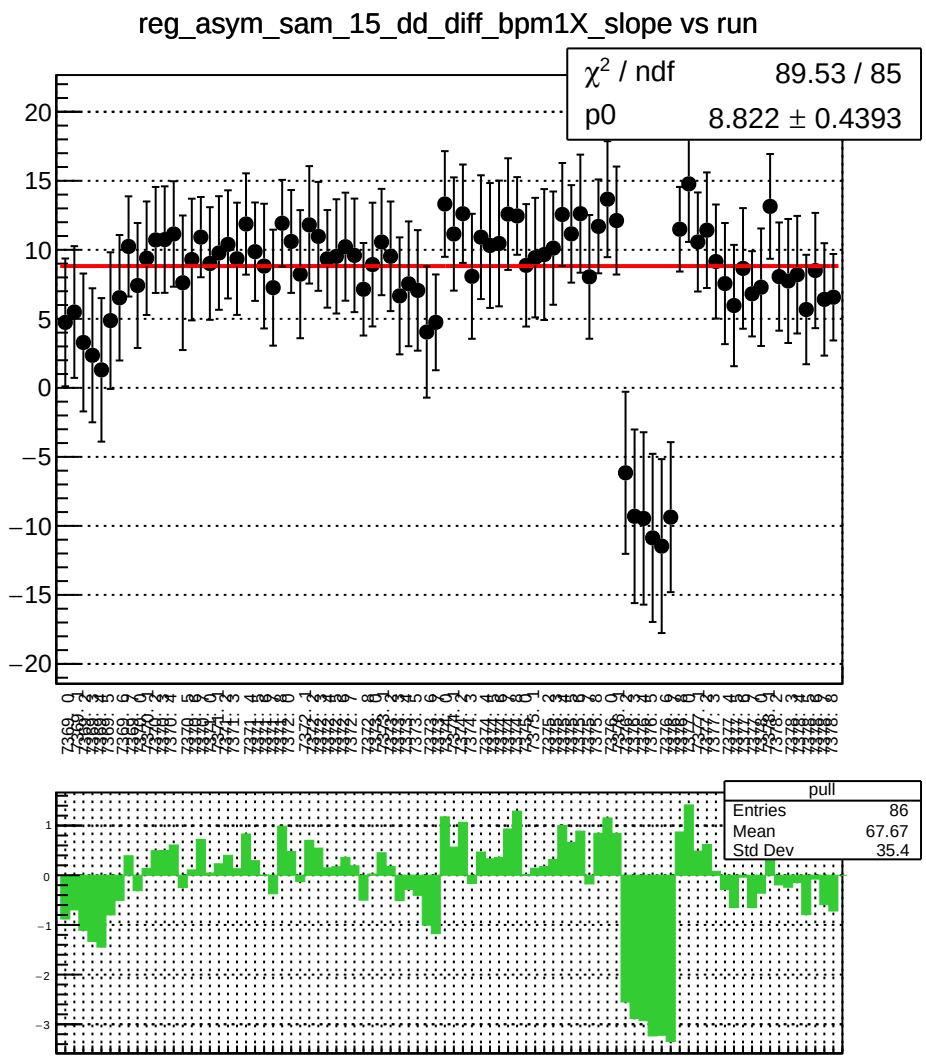

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 277 / 85
p0 11.94 ± 0.2816
pull
Entries 86
Mean −193.7
Std Dev 0
pull1D
Entries 86
Mean 0.03305
Std Dev 1.794

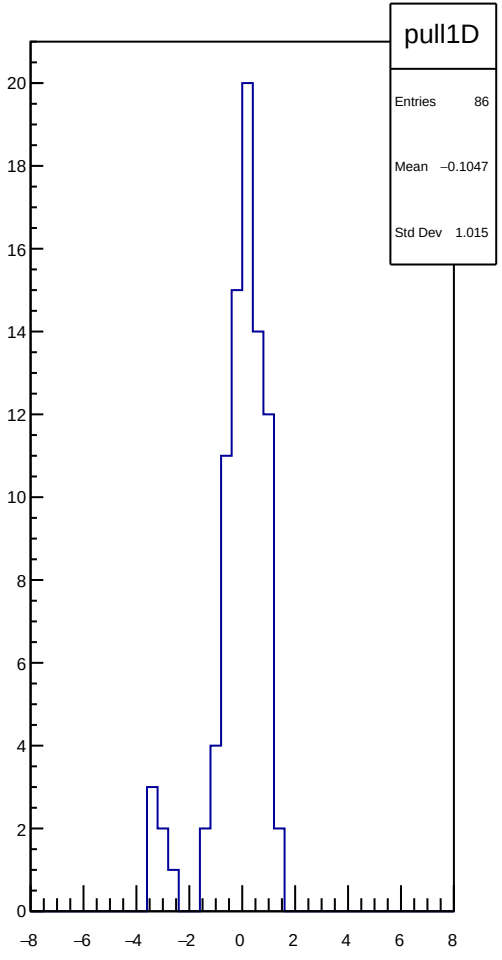

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 544.5 / 85
p0 16.84 ± 0.2677
pull
Entries 86
Mean 86.74
Std Dev 20.19
pull1D
Entries 86
Mean −0.1332
Std Dev 2.364

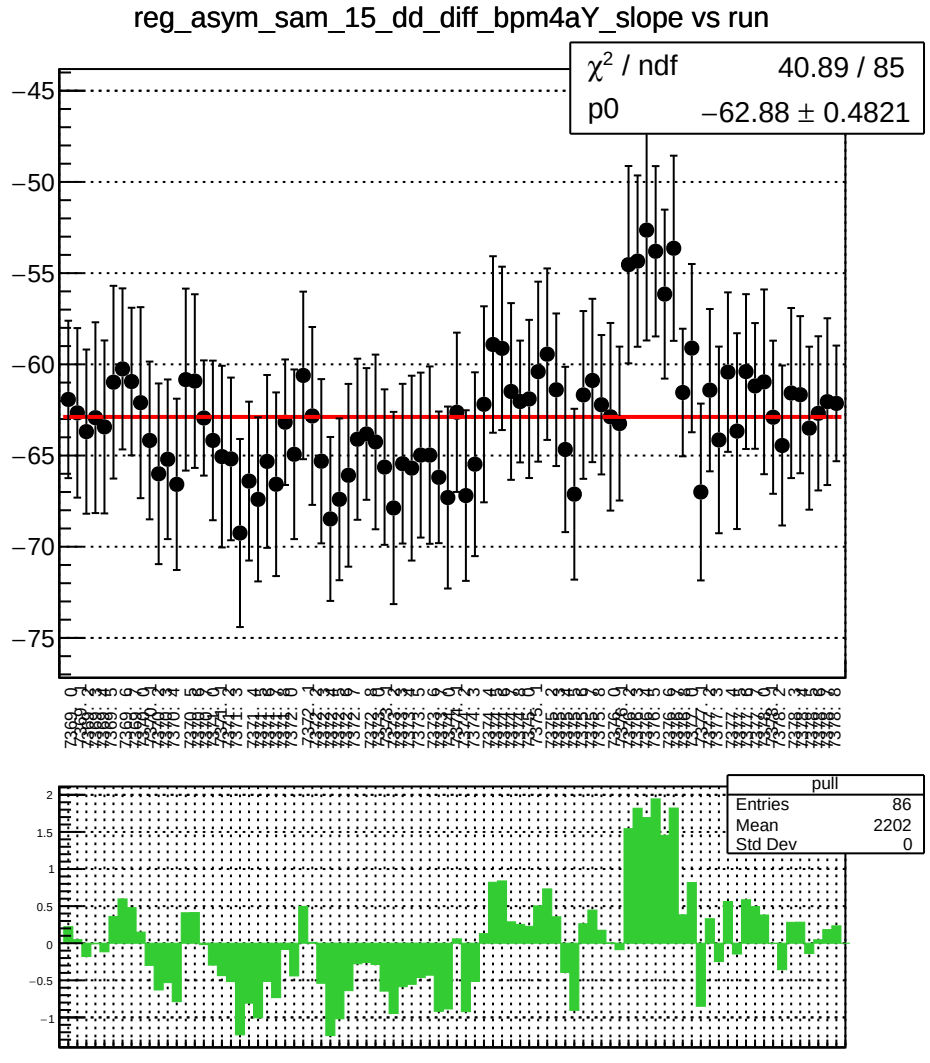

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 209 / 85
p0 44.64 ± 0.2993
pull
Entries 86
Mean 1403
Std Dev 0
pull1D
Entries 86
Mean 0.01588
Std Dev 1.559

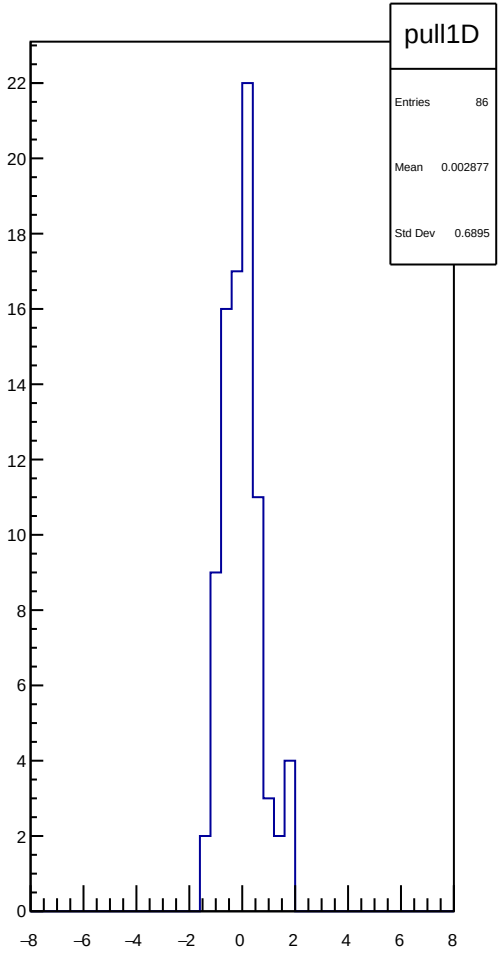

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 637.4 / 85
p0 0.09855 ± 0.0134
pull
Entries 86
Mean 961.5
Std Dev 0

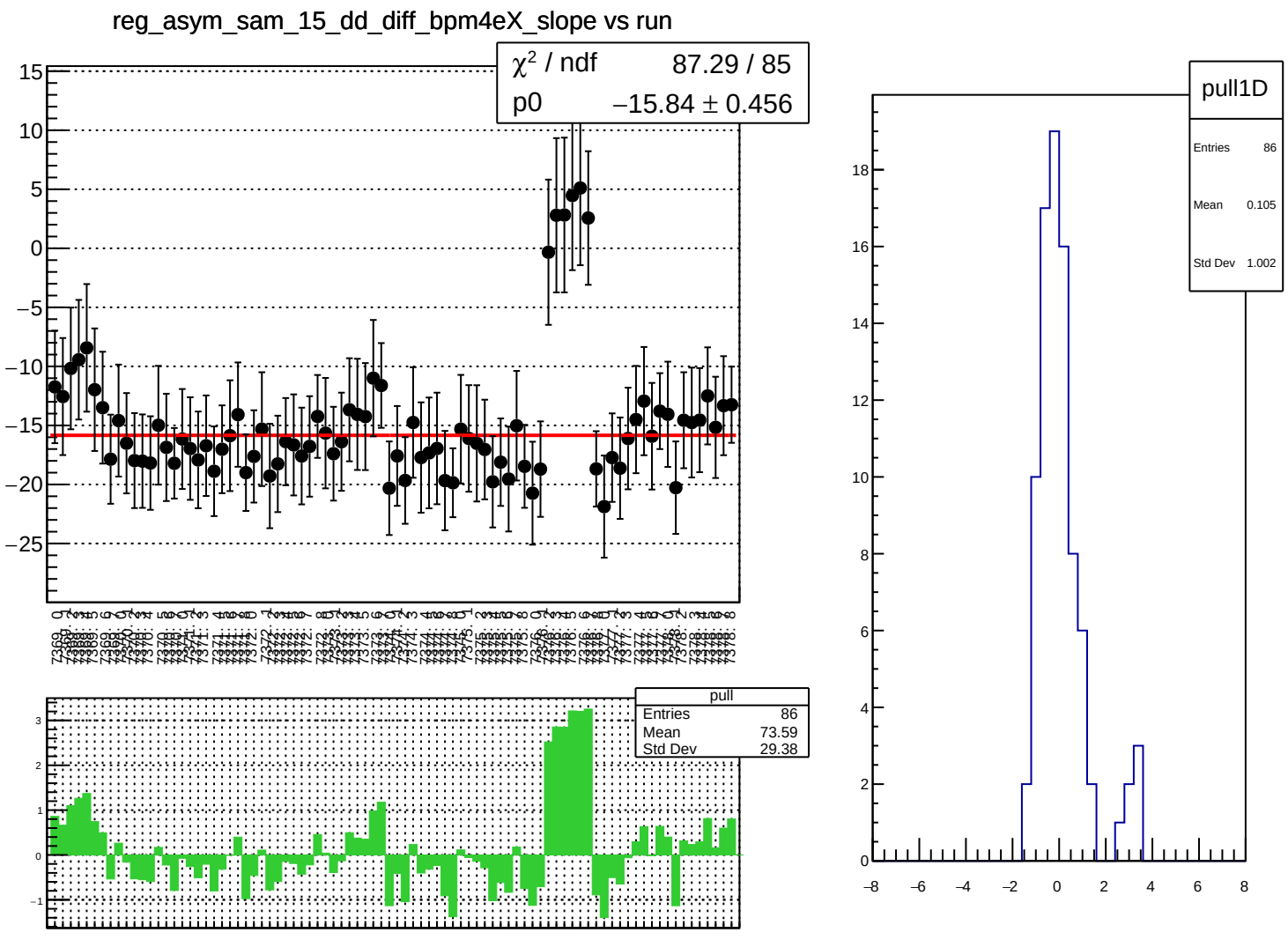

pull1D
Entries 86
Mean 0.0624
Std Dev 2.722

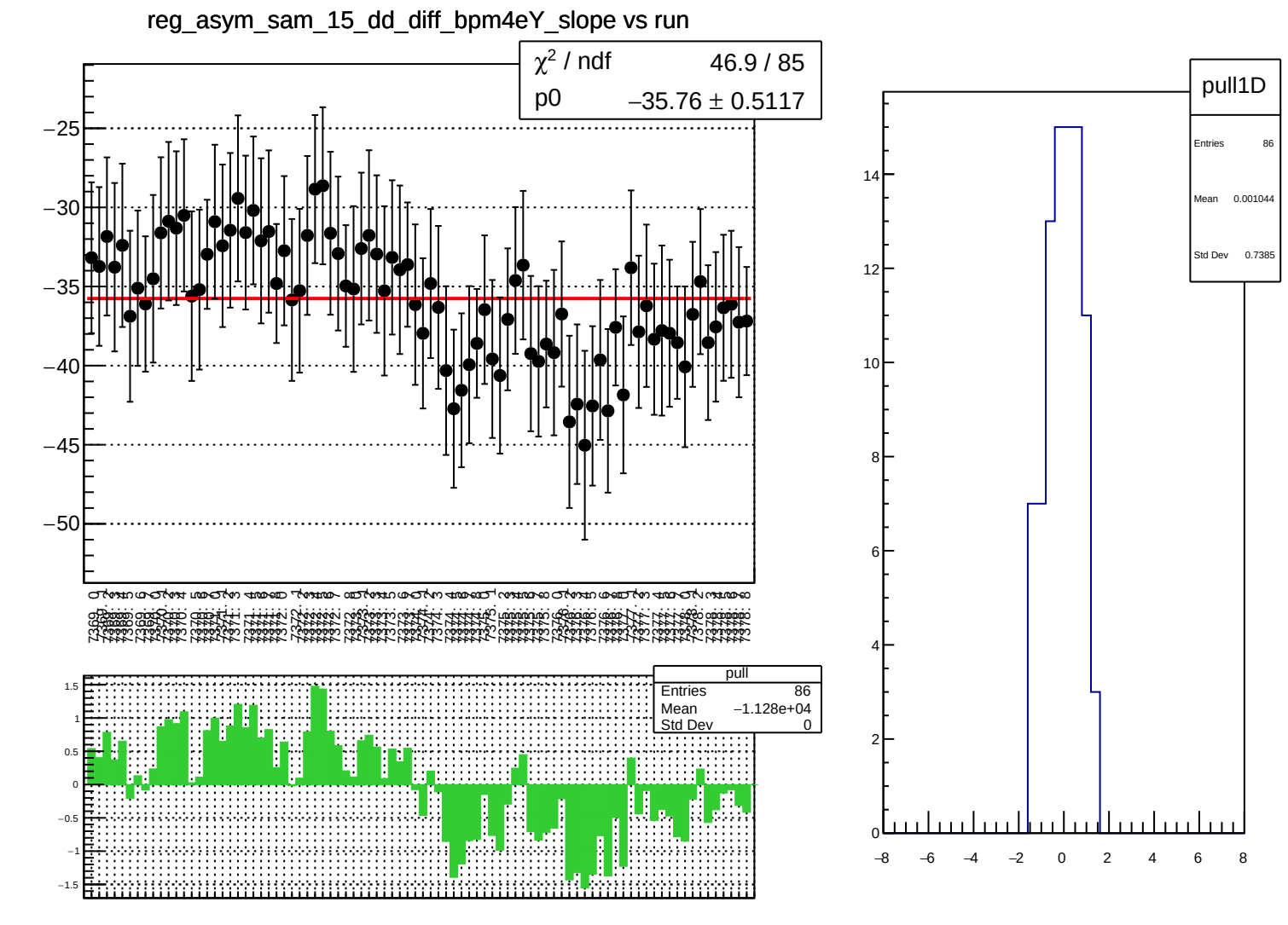

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 89.53 / 85
p0 8.822 ± 0.4393
pull
Entries 86
Mean 67.67
Std Dev 35.4

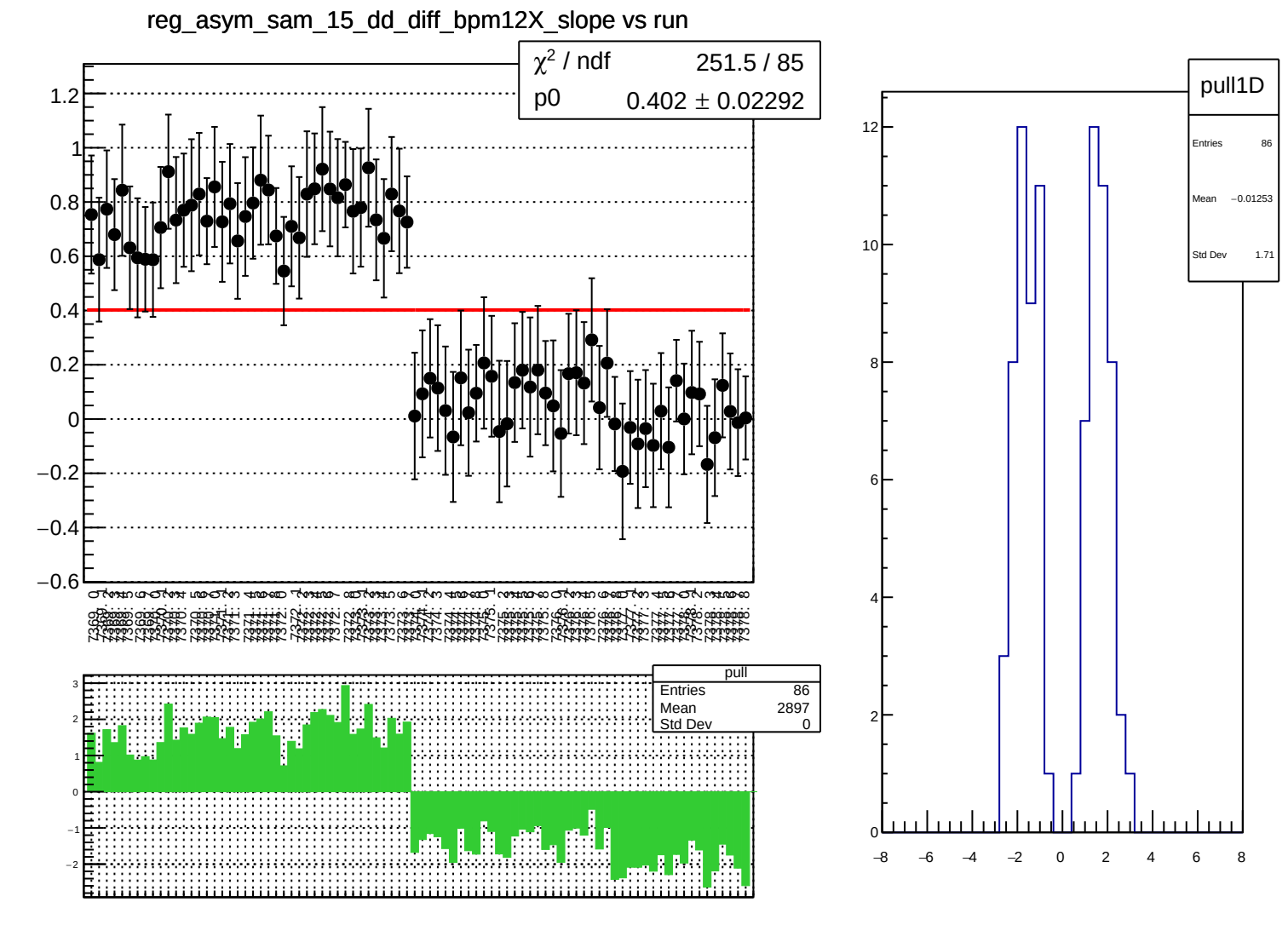

pull1D
Entries 86
Mean −0.1047
Std Dev 1.015

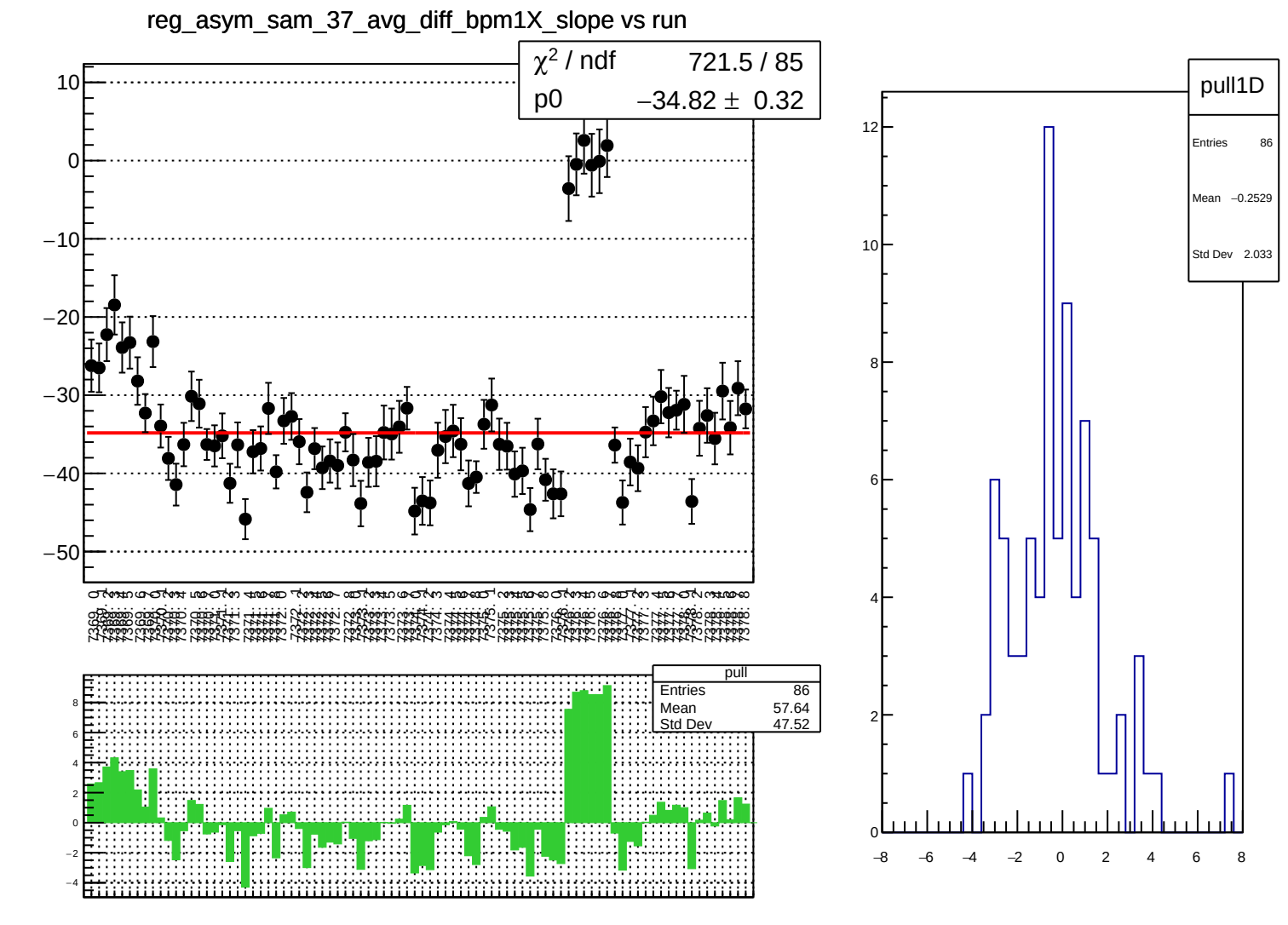

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.89 / 85
p0 −62.88 ± 0.4821
pull
Entries 86
Mean 2202
Std Dev 0

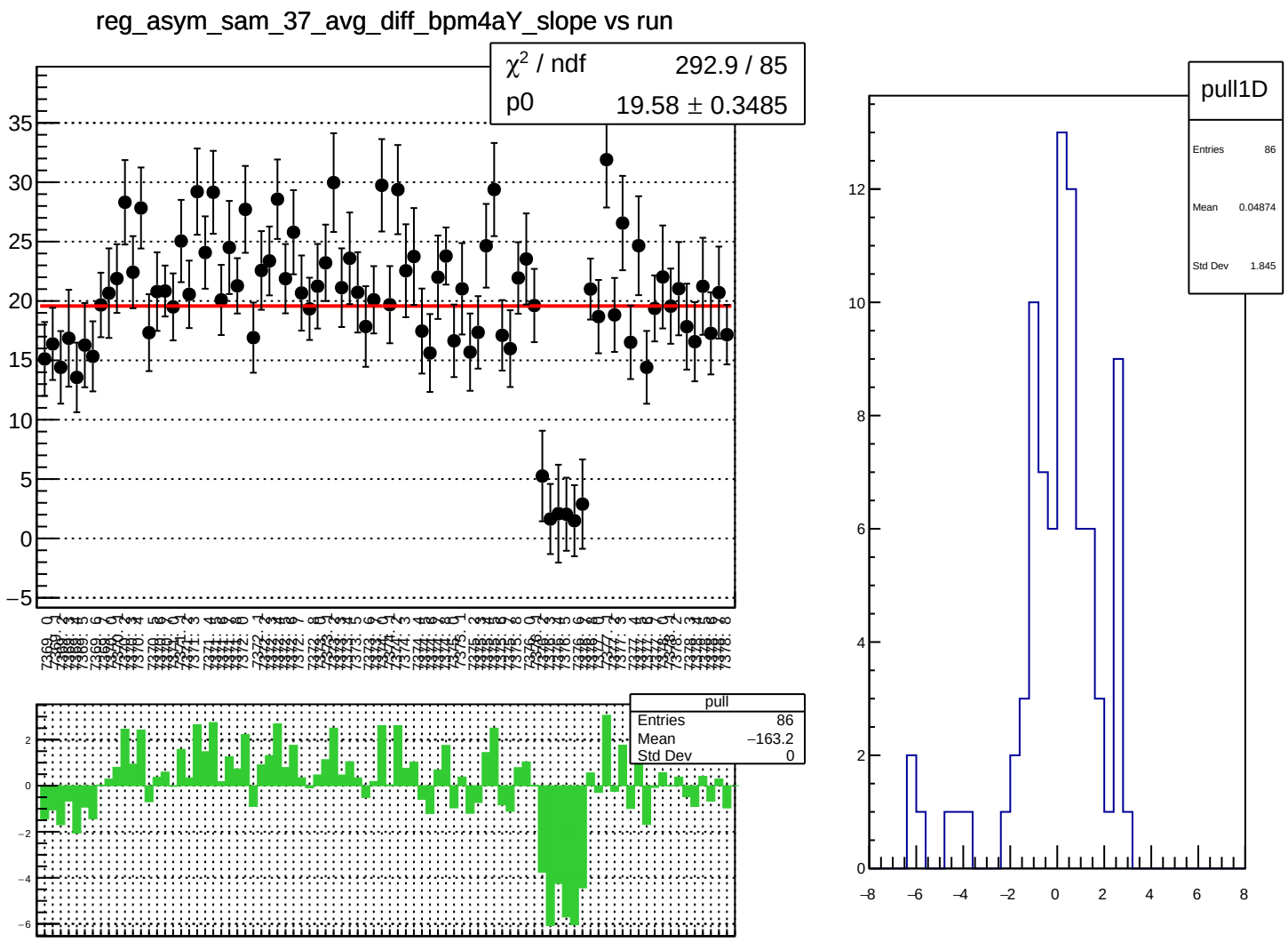

pull1D
Entries 86
Mean 0.002877
Std Dev 0.6895

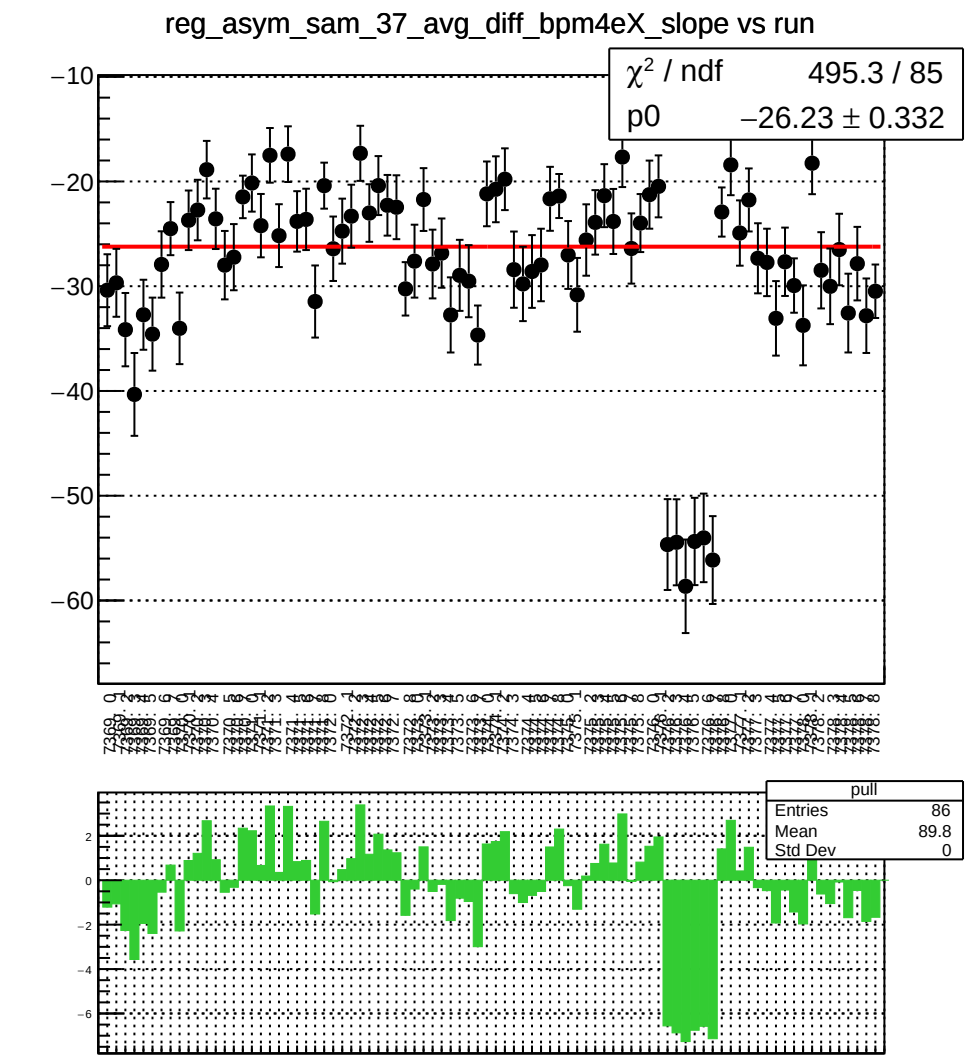

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.29 / 85
p0 −15.84 ± 0.456
pull
Entries 86
Mean 73.59
Std Dev 29.38
pull1D
Entries 86
Mean 0.105
Std Dev 1.002

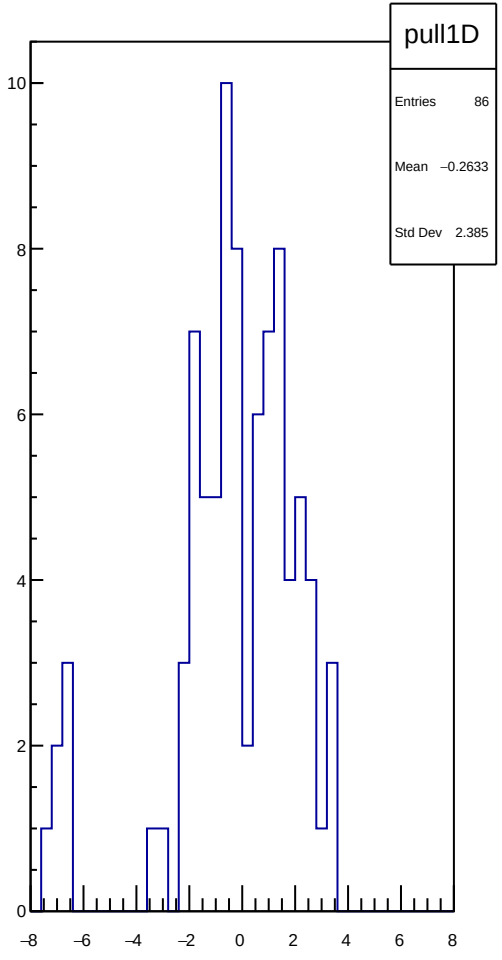

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.9 / 85
p0 −35.76 ± 0.5117
pull
Entries 86
Mean −1.128e+04
Std Dev 0
pull1D
Entries 86
Mean 0.001044
Std Dev 0.7385

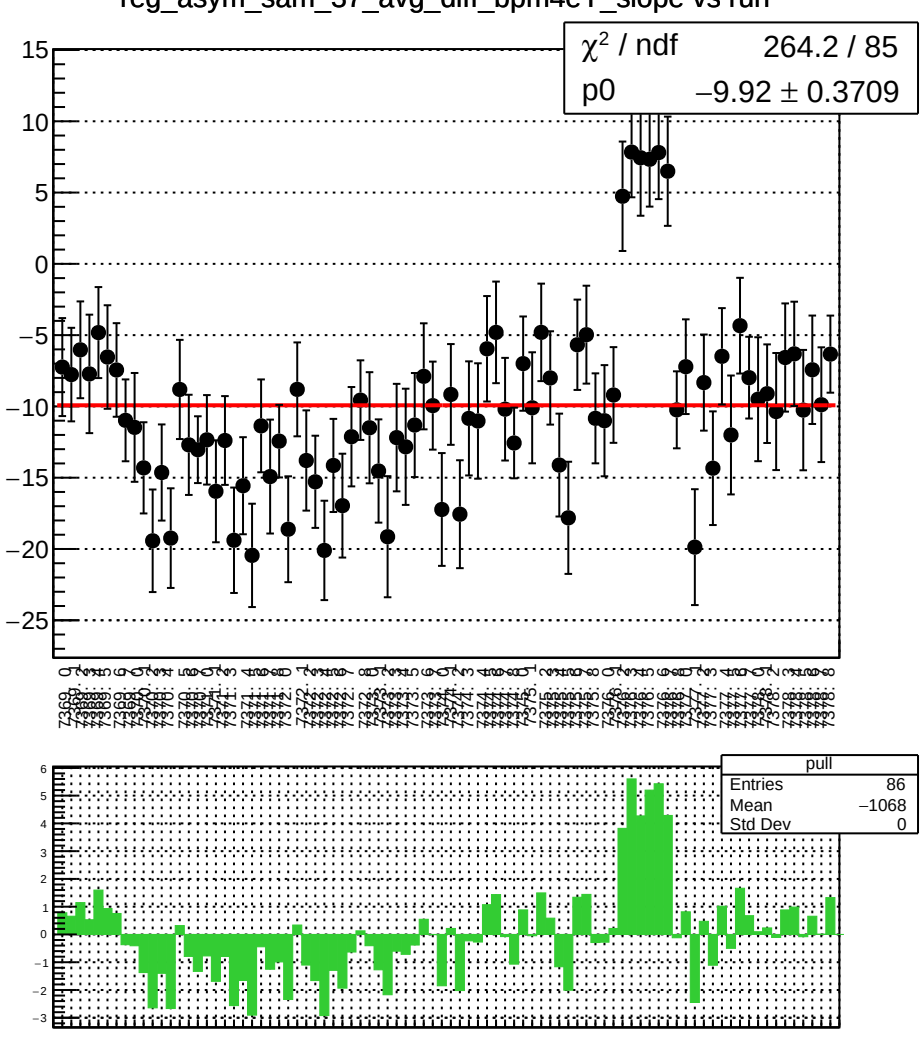

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 251.5 / 85
p0 0.402 ± 0.02292
pull
Entries 86
Mean 2897
Std Dev 0
pull1D
Entries 86
Mean −0.01253
Std Dev 1.71

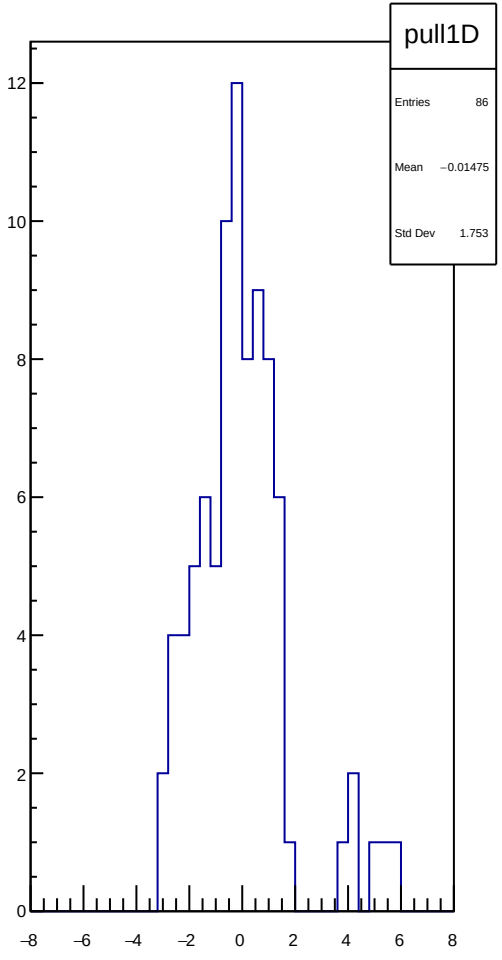

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 721.5 / 85
p0 −34.82 ± 0.32
pull
Entries 86
Mean 57.64
Std Dev 47.52
pull1D
Entries 86
Mean −0.2529
Std Dev 2.033

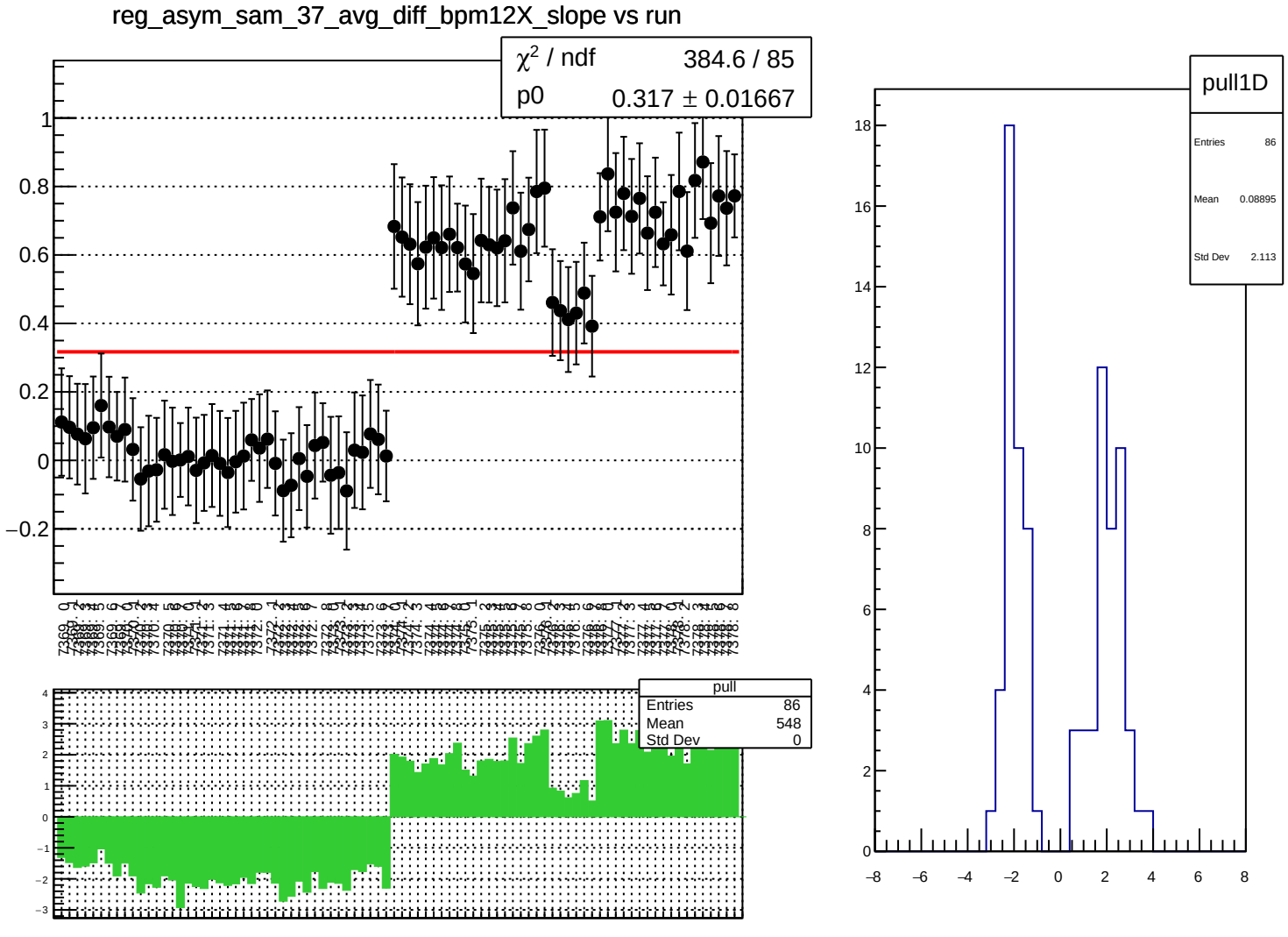

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 292.9 / 85
p0 19.58 ± 0.3485
pull
Entries 86
Mean −163.2
Std Dev 0
pull1D
Entries 86
Mean 0.04874
Std Dev 1.845

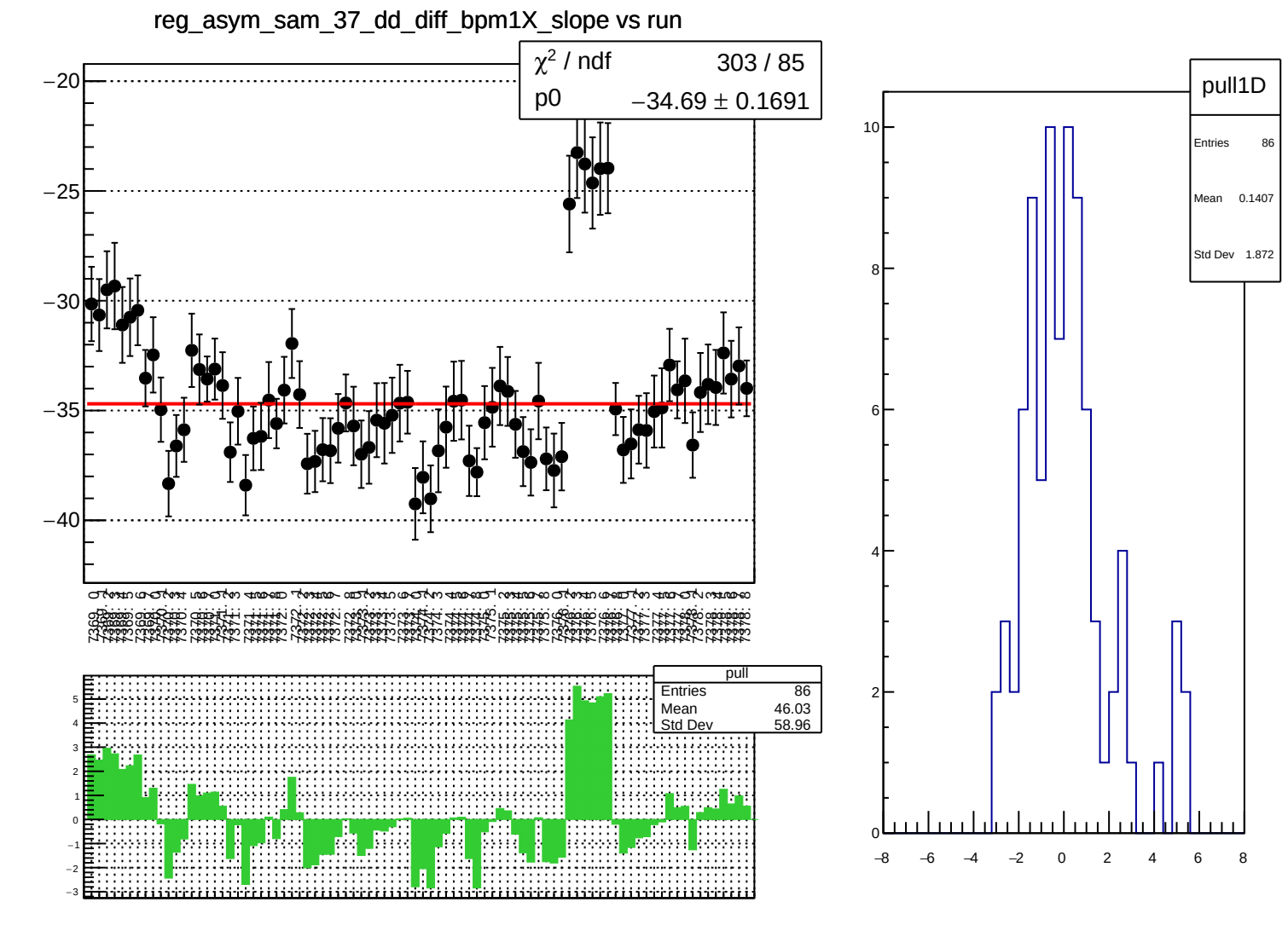

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 495.3 / 85
p0 −26.23 ± 0.332
pull
Entries 86
Mean 89.8
Std Dev 0

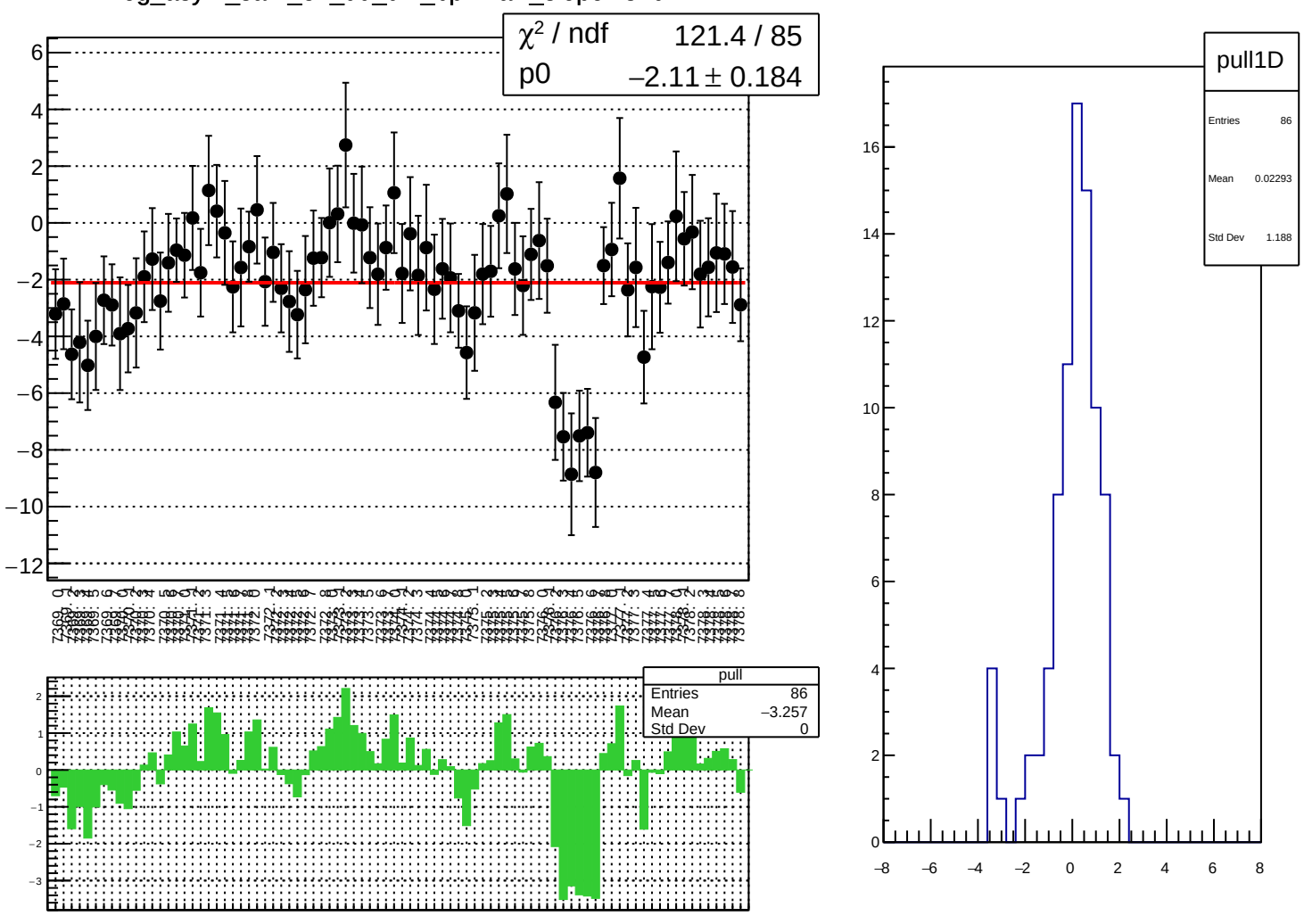

pull1D
Entries 86
Mean −0.2633
Std Dev 2.385

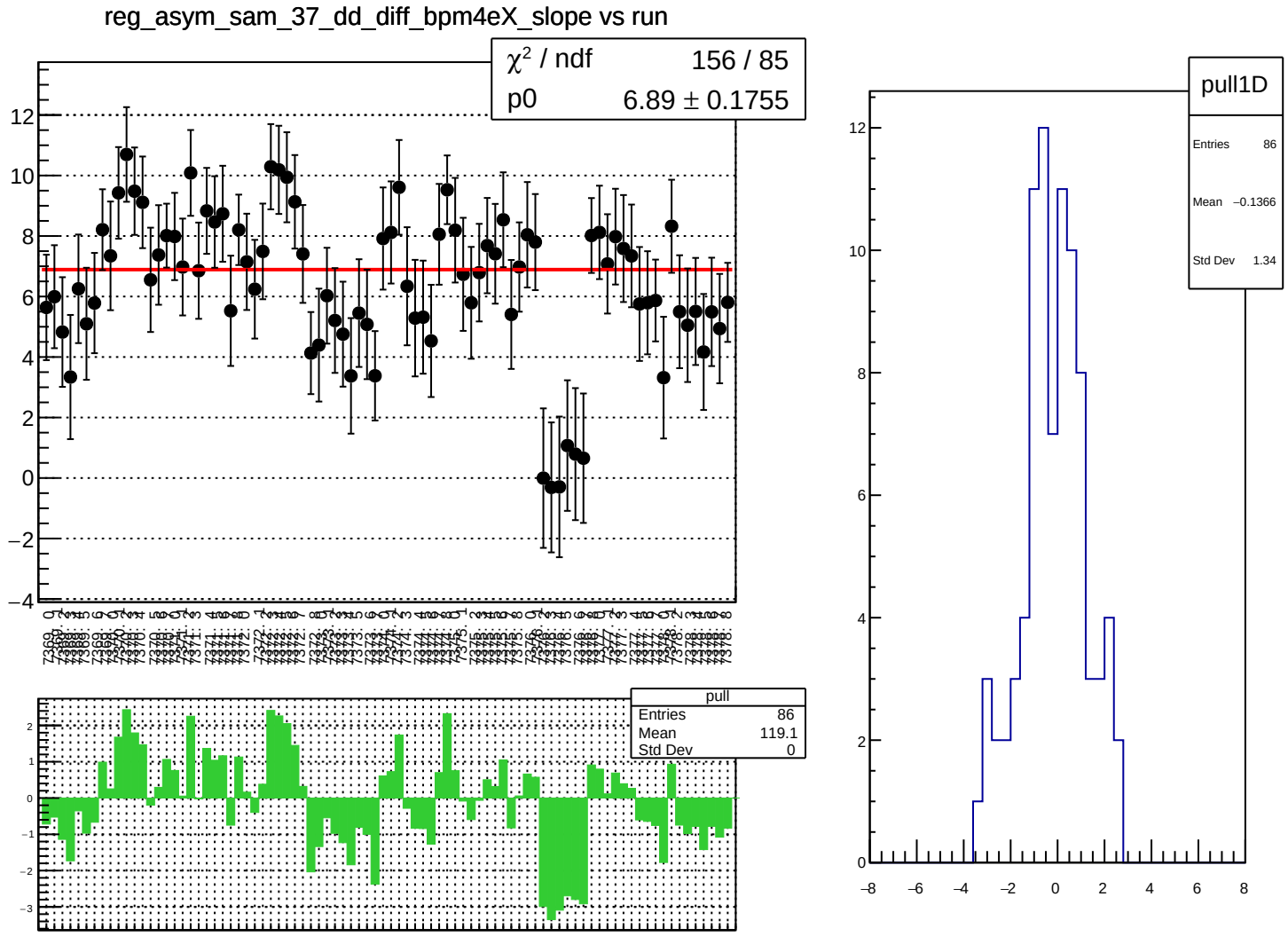

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 264.2 / 85
p0 −9.92 ± 0.3709
pull
Entries 86
Mean −1068
Std Dev 0

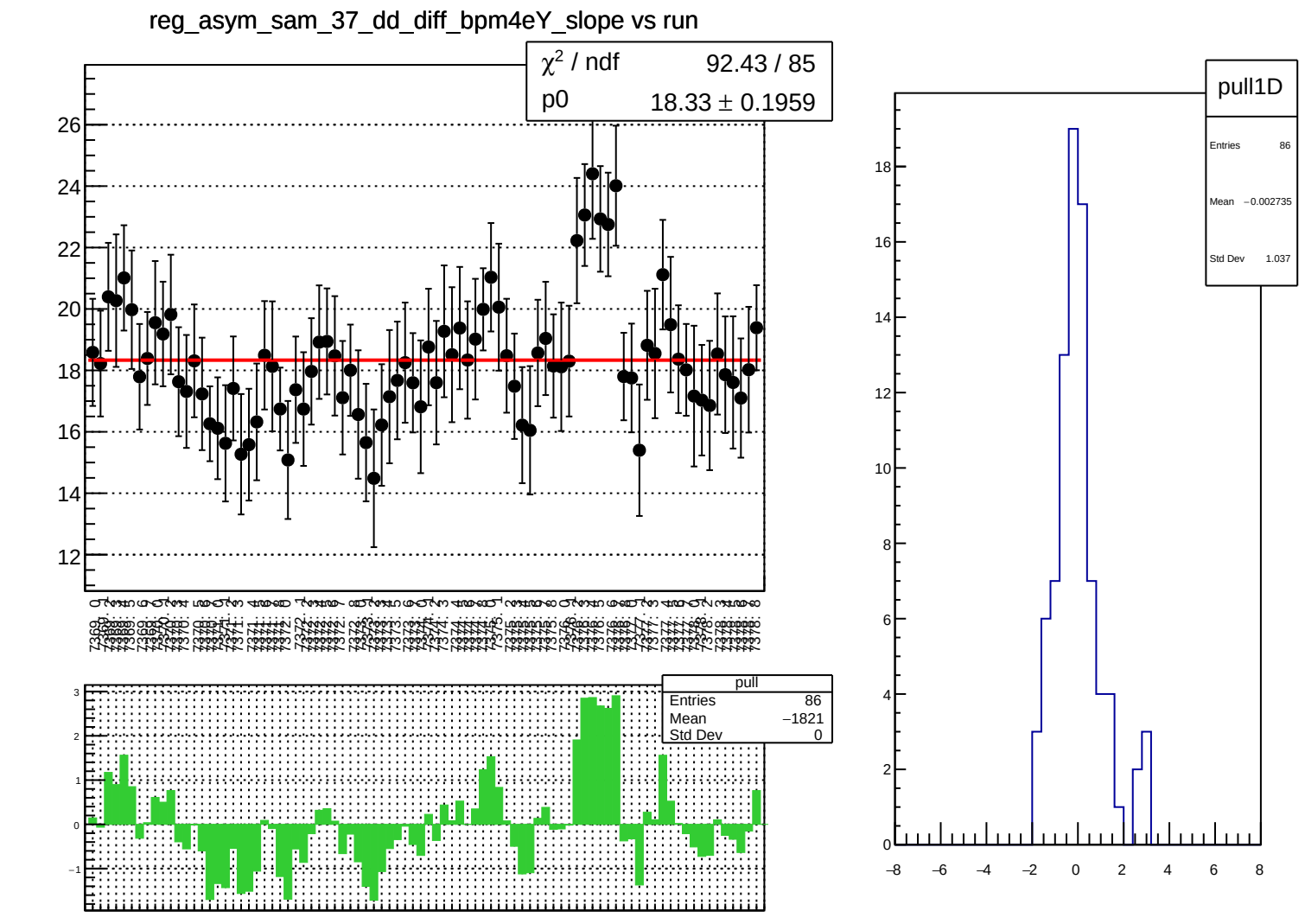

pull1D
Entries 86
Mean −0.01475
Std Dev 1.753

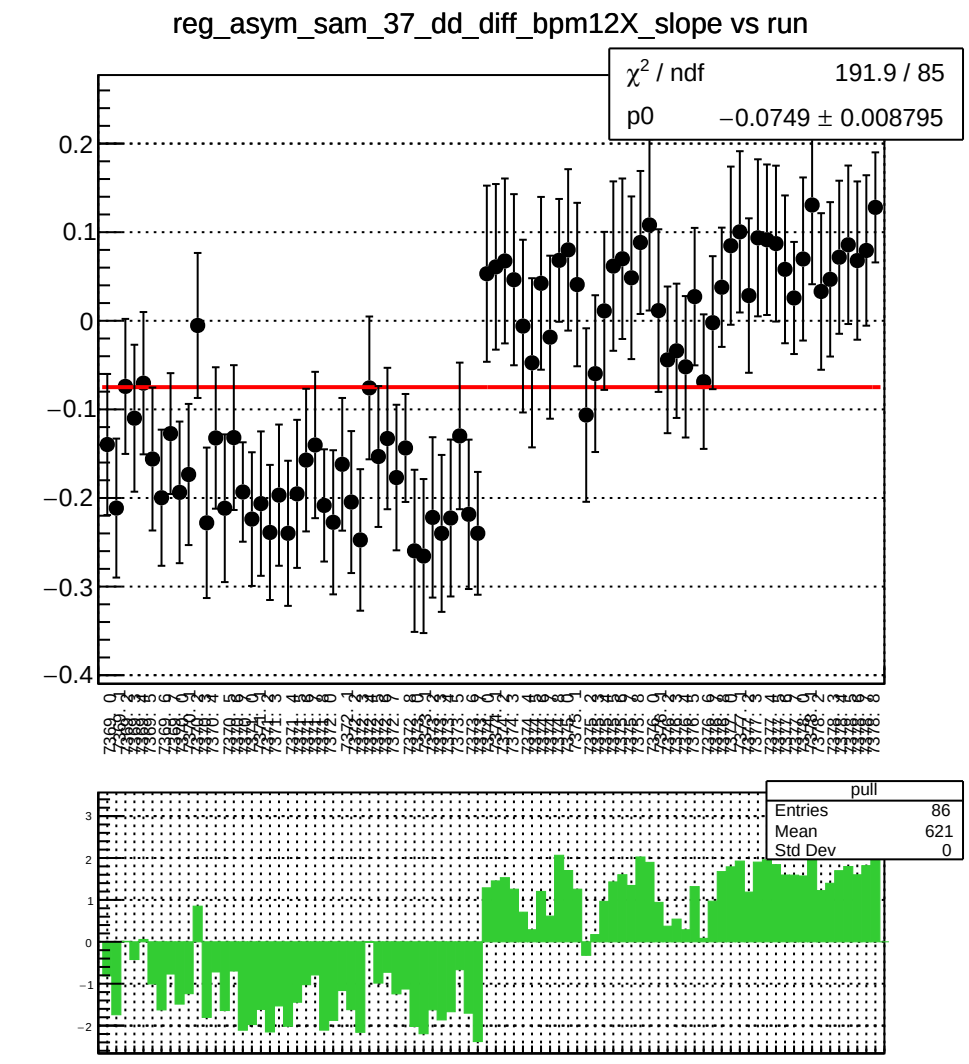

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 384.6 / 85
p0 0.317 ± 0.01667
pull
Entries 86
Mean 548
Std Dev 0
pull1D
Entries 86
Mean 0.08895
Std Dev 2.113

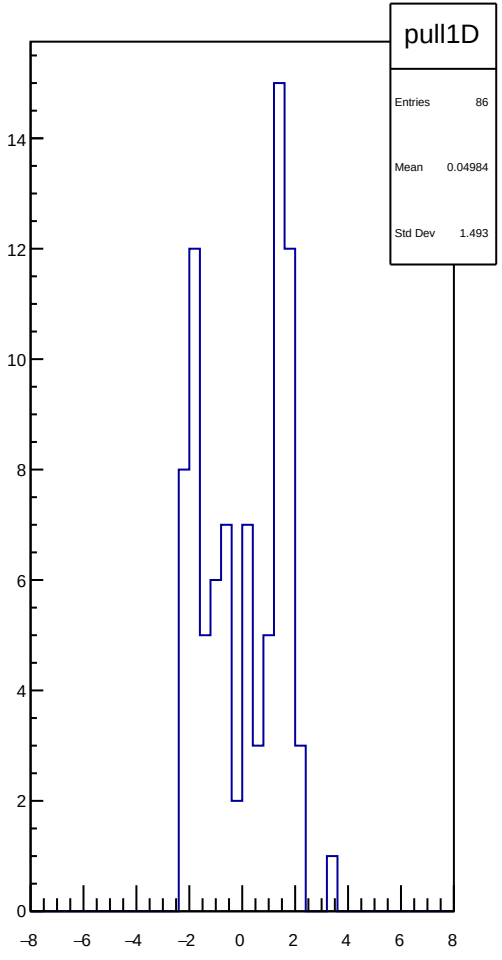

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 303 / 85
p0 −34.69 ± 0.1691
pull
Entries 86
Mean 46.03
Std Dev 58.96
pull1D
Entries 86
Mean 0.1407
Std Dev 1.872

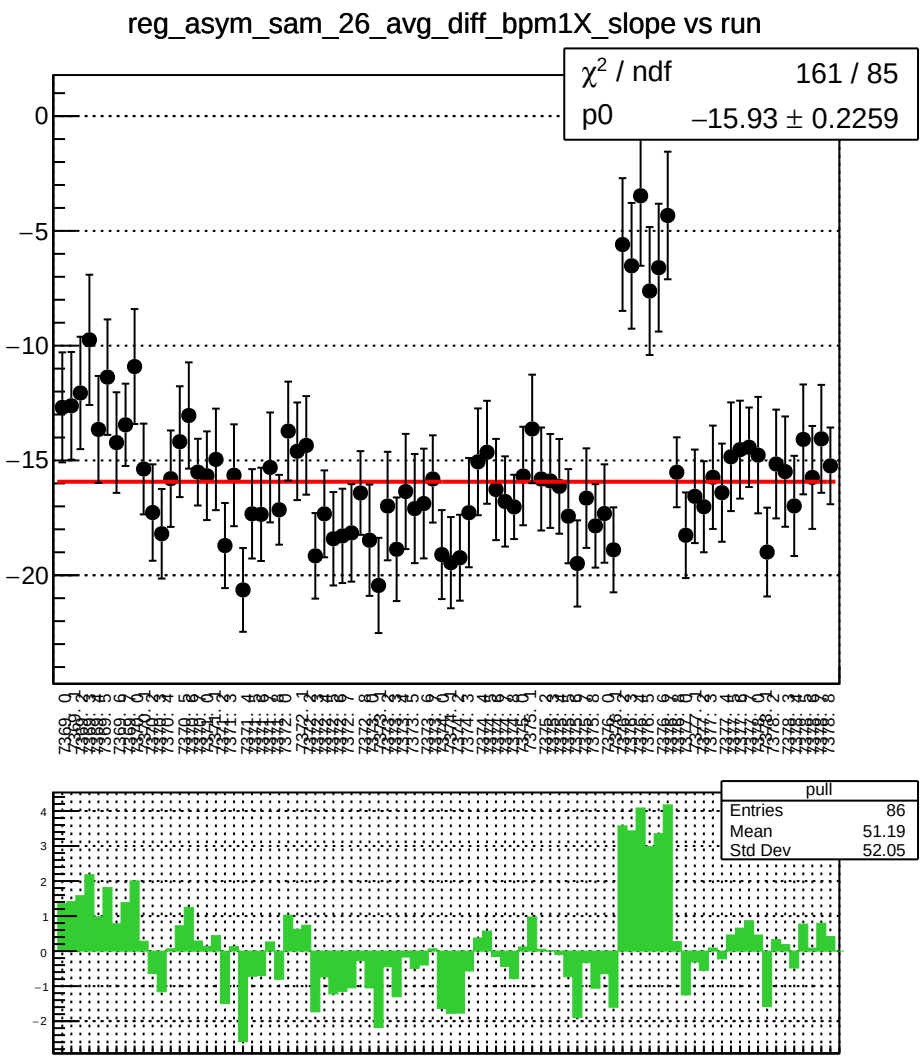

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 121.4 / 85
p0 −2.11 ± 0.184
pull
Entries 86
Mean −3.257
Std Dev 0
pull1D
Entries 86
Mean 0.02293
Std Dev 1.188

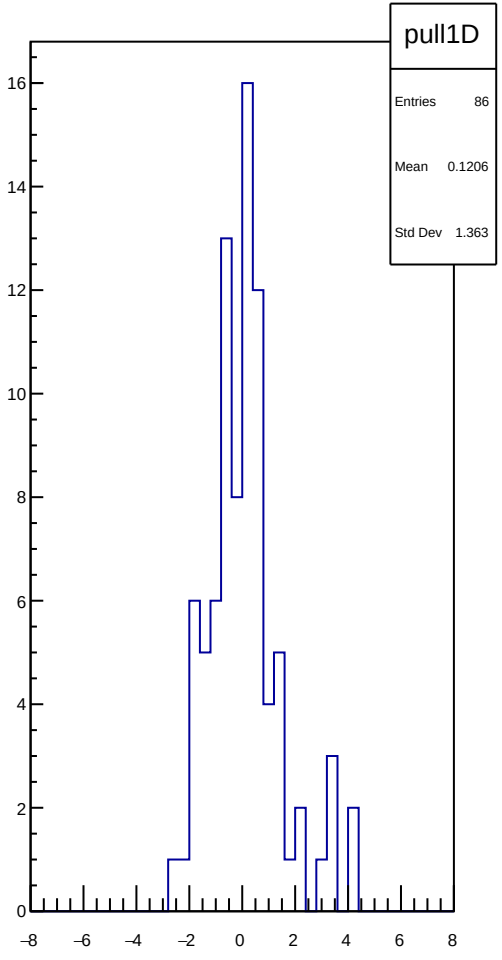

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 156 / 85
p0 6.89 ± 0.1755
pull
Entries 86
Mean 119.1
Std Dev 0
pull1D
Entries 86
Mean −0.1366
Std Dev 1.34

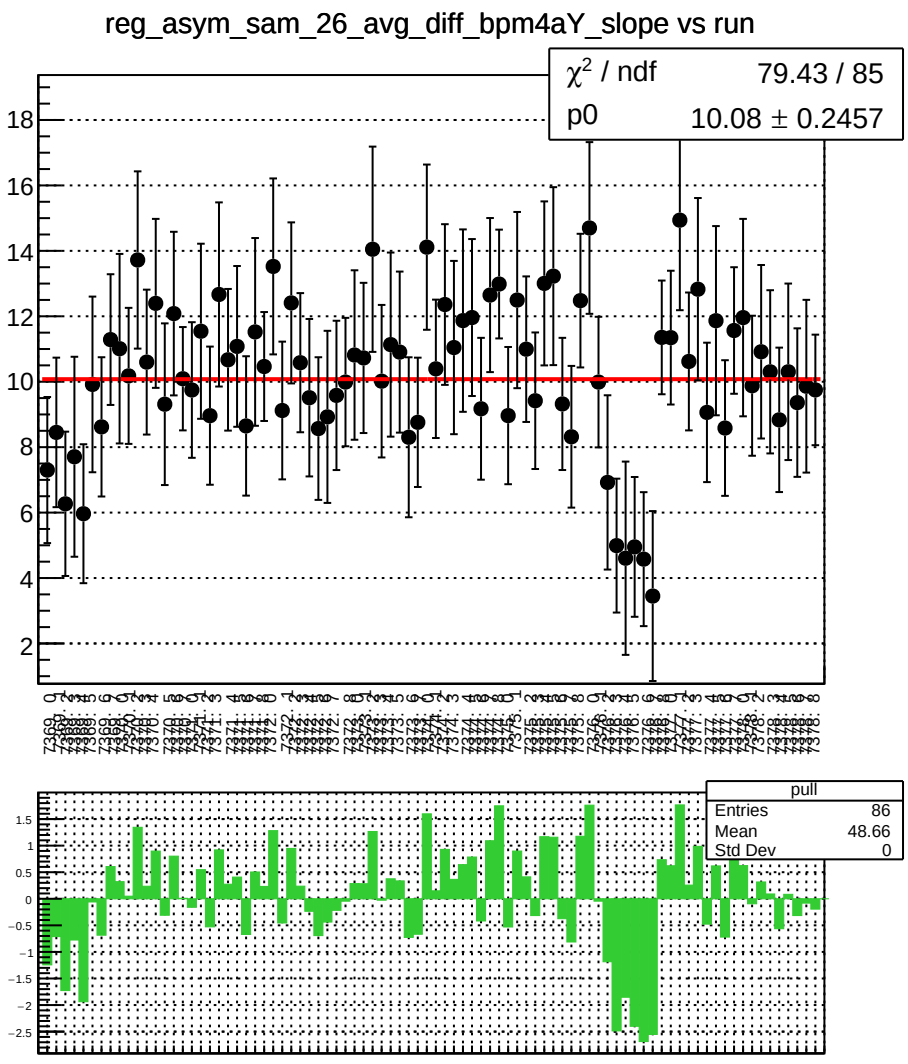

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.43 / 85
p0 18.33 ± 0.1959
pull
Entries 86
Mean −1821
Std Dev 0
pull1D
Entries 86
Mean −0.002735
Std Dev 1.037

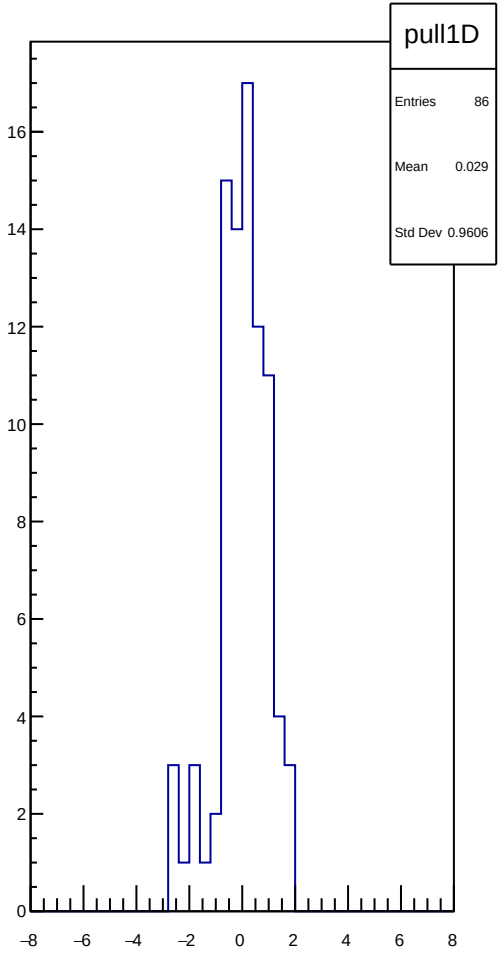

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 191.9 / 85
p0 −0.0749 ± 0.008795
pull
Entries 86
Mean 621
Std Dev 0

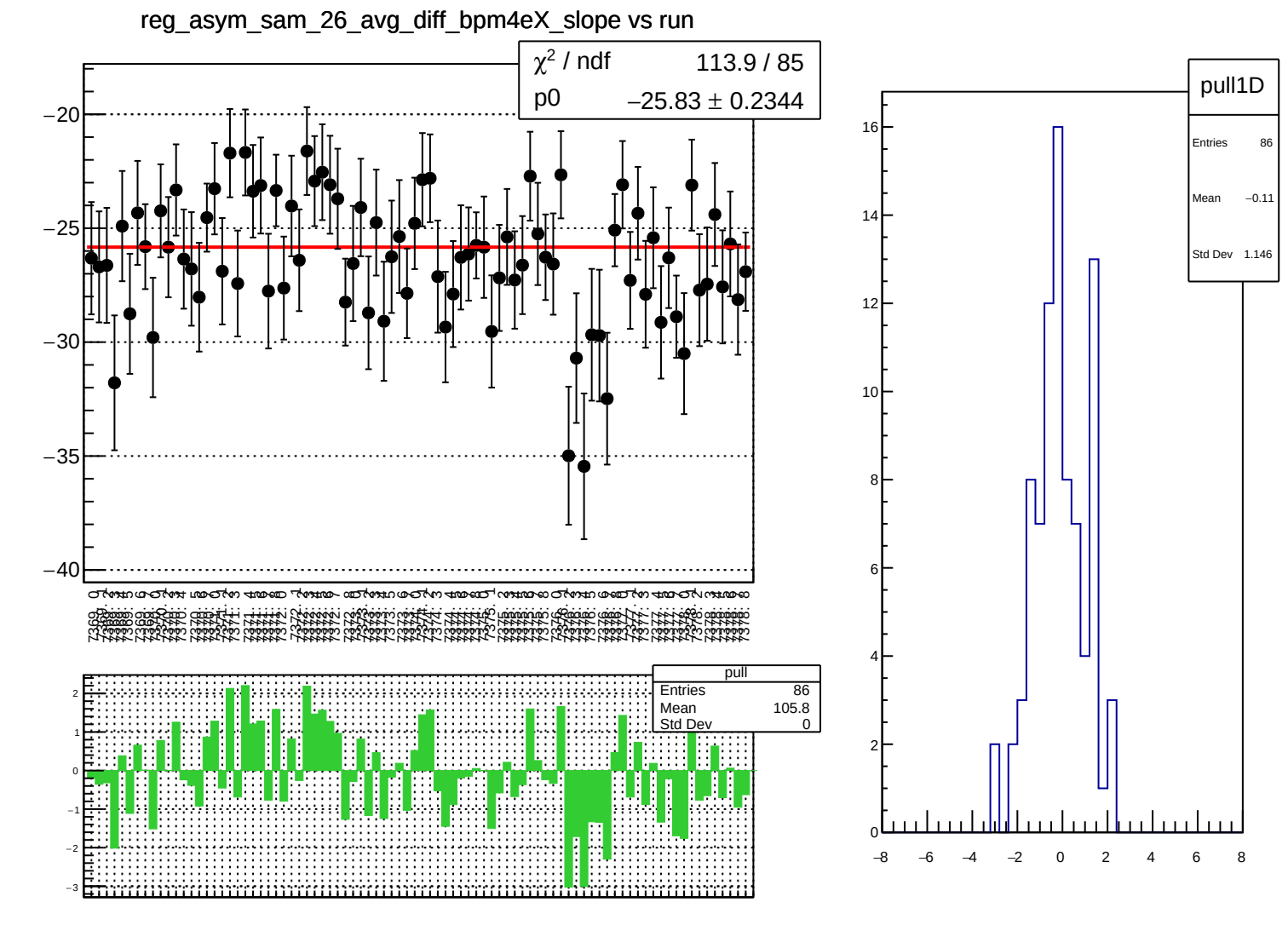

pull1D
Entries 86
Mean 0.04984
Std Dev 1.493

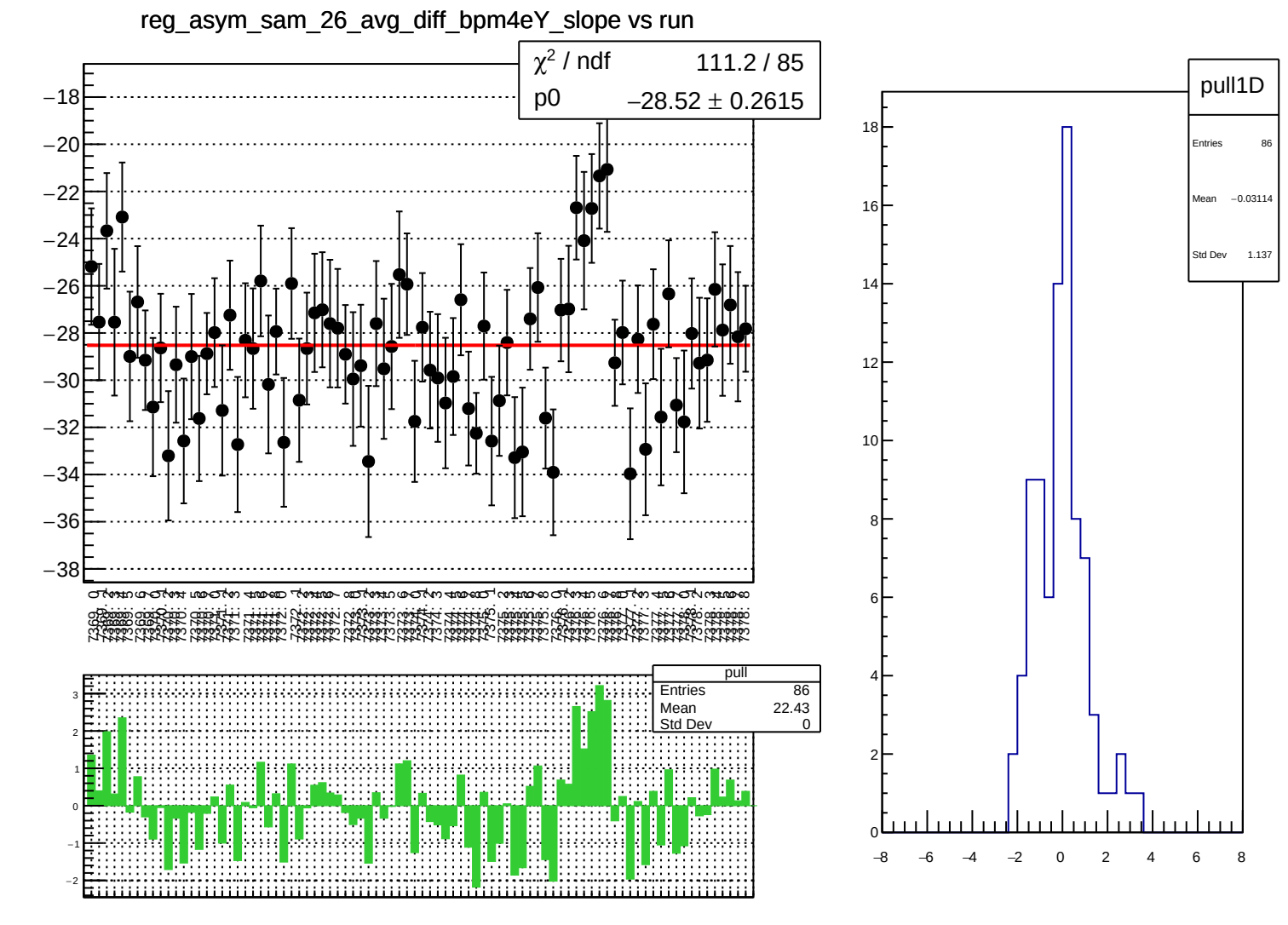

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 161 / 85
p0 −15.93 ± 0.2259
pull
Entries 86
Mean 51.19
Std Dev 52.05

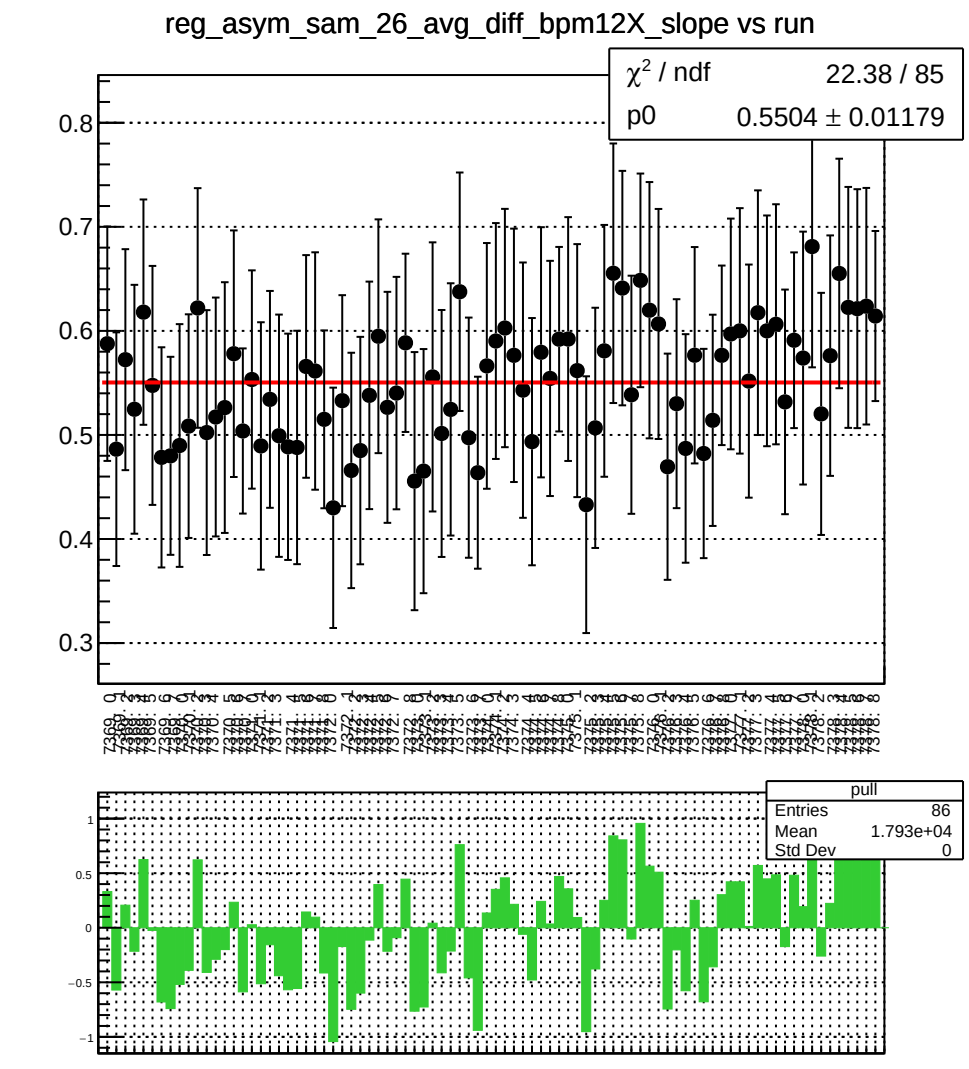

pull1D
Entries 86
Mean 0.1206
Std Dev 1.363

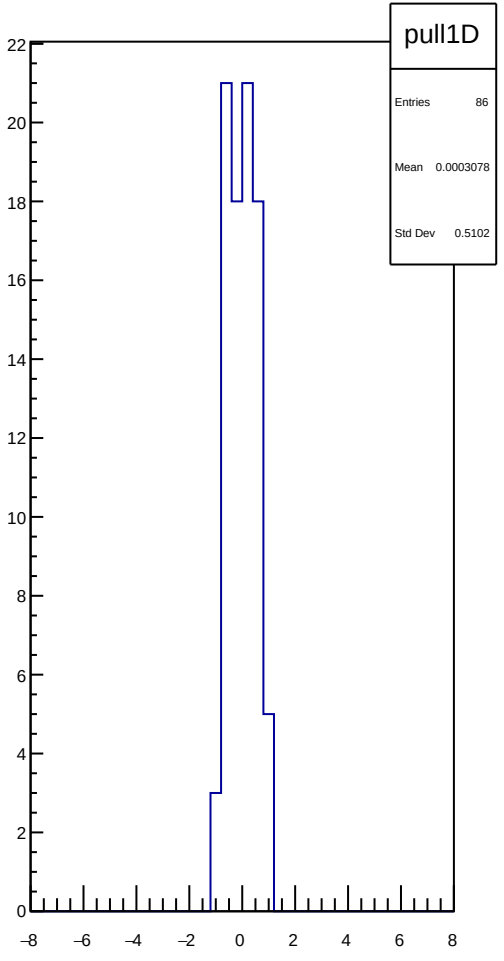

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 79.43 / 85
p0 10.08 ± 0.2457
pull
Entries 86
Mean 48.66
Std Dev 0

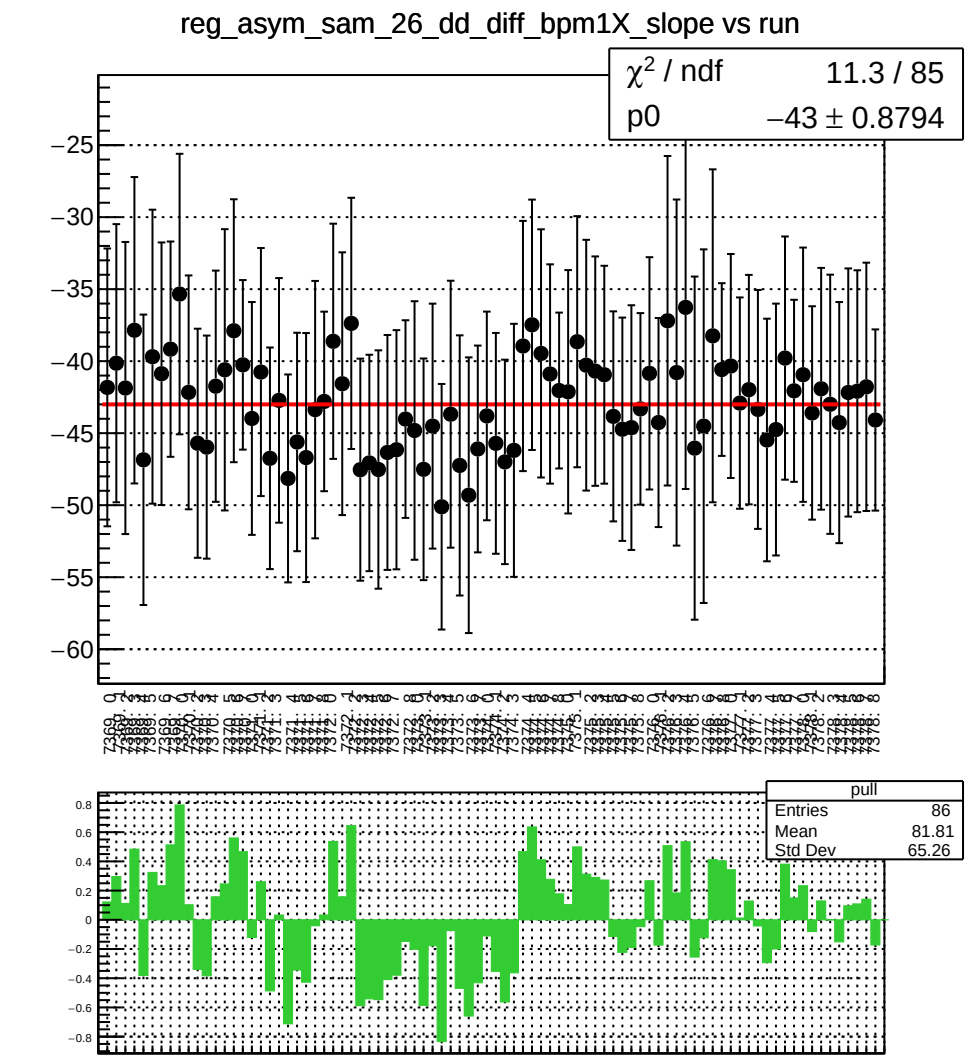

pull1D
Entries 86
Mean 0.029
Std Dev 0.9606

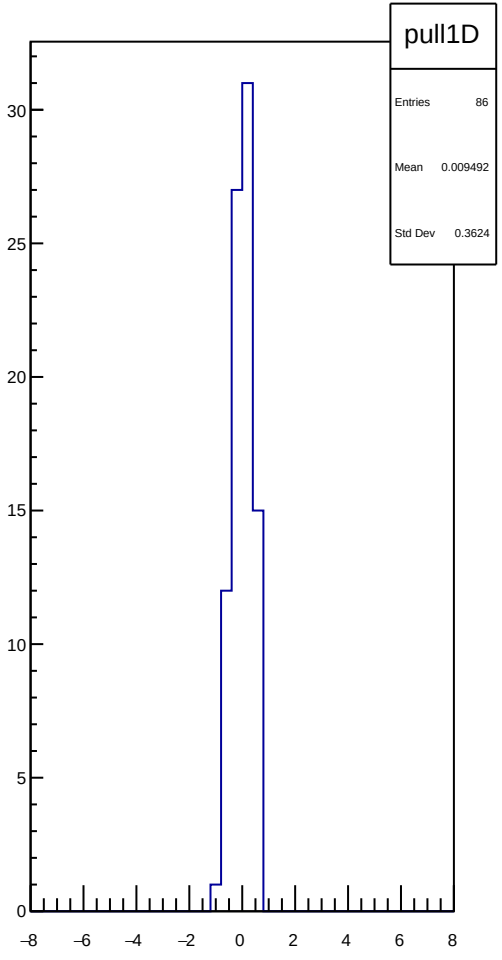

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 113.9 / 85
p0 −25.83 ± 0.2344
pull
Entries 86
Mean 105.8
Std Dev 0
pull1D
Entries 86
Mean −0.11
Std Dev 1.146

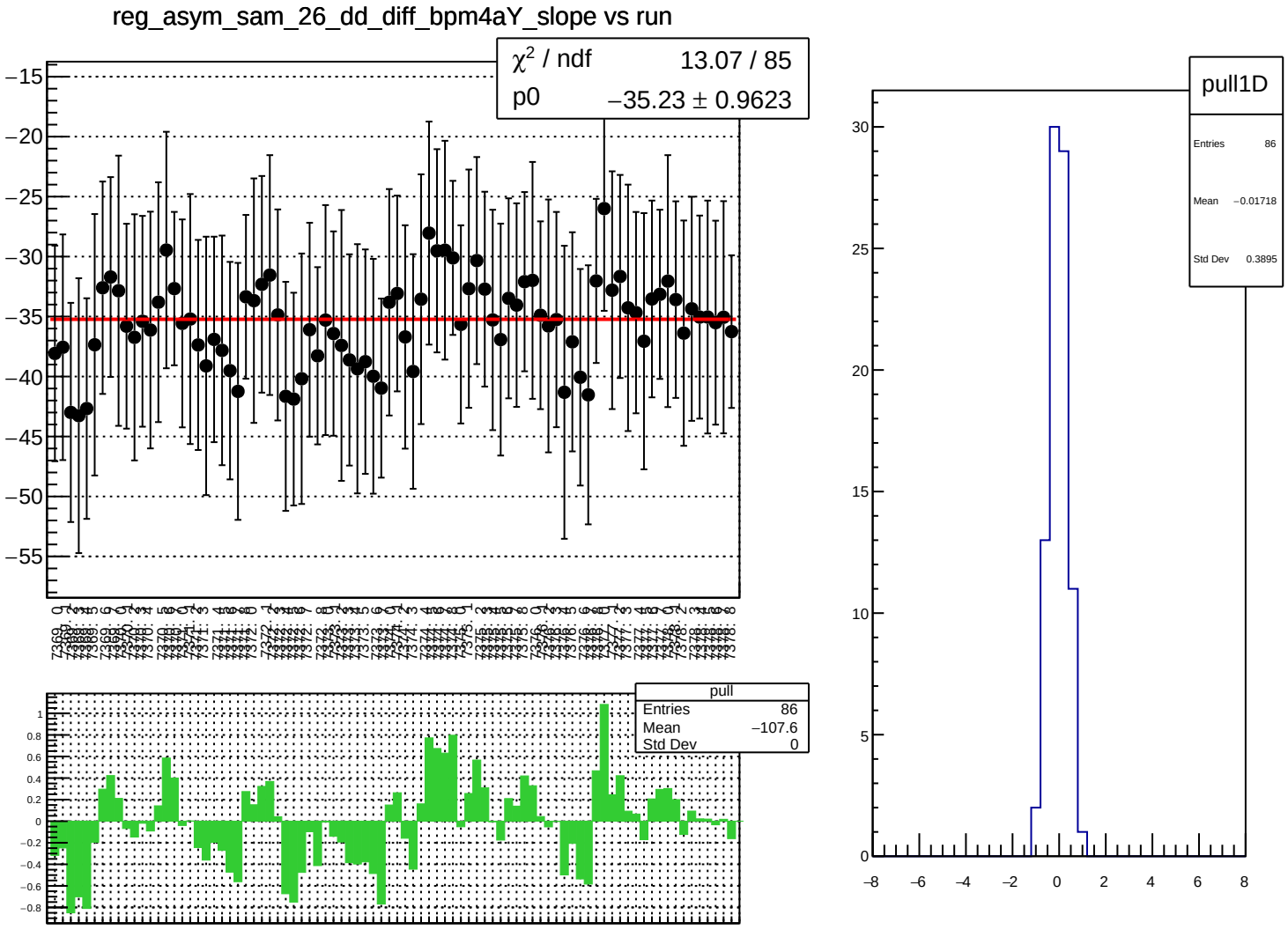

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 111.2 / 85
p0 −28.52 ± 0.2615
pull
Entries 86
Mean 22.43
Std Dev 0
pull1D
Entries 86
Mean −0.03114
Std Dev 1.137

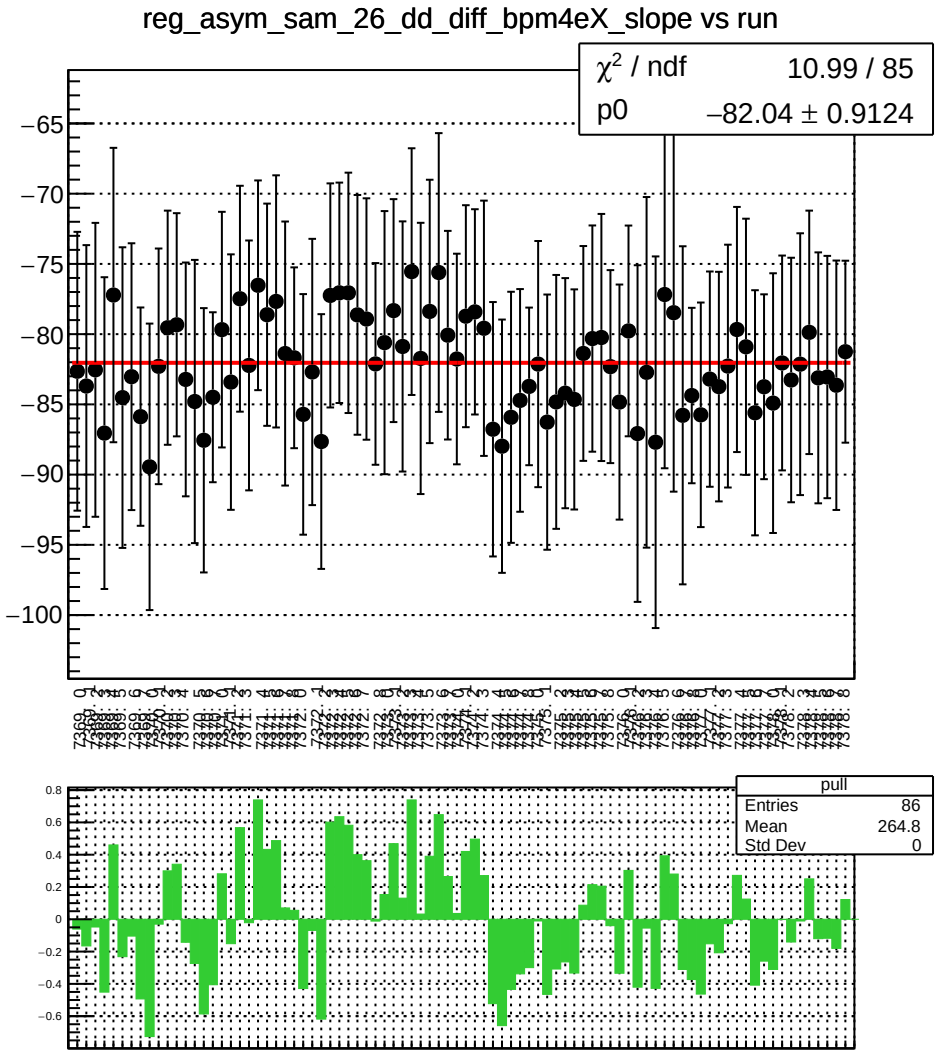

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 22.38 / 85
p0 0.5504 ± 0.01179
pull
Entries 86
Mean 1.793e+04
Std Dev 0

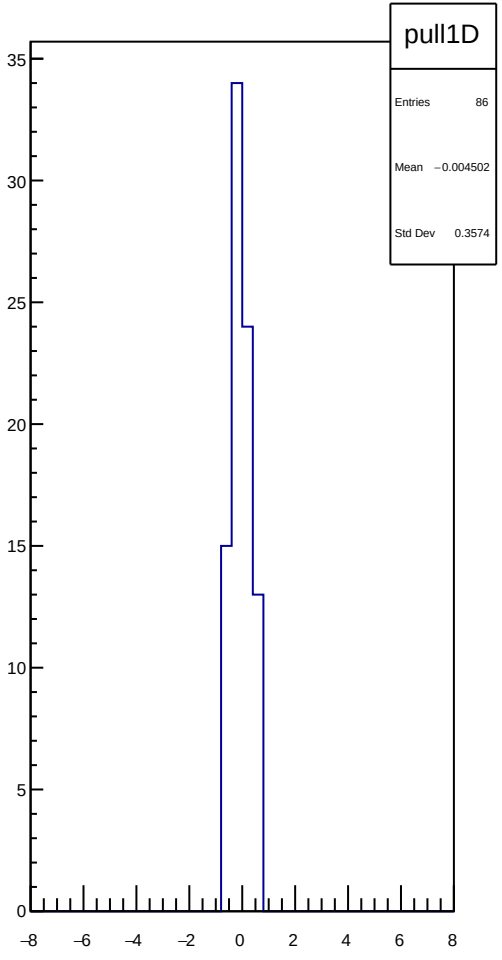

pull1D
Entries 86
Mean 0.0003078
Std Dev 0.5102

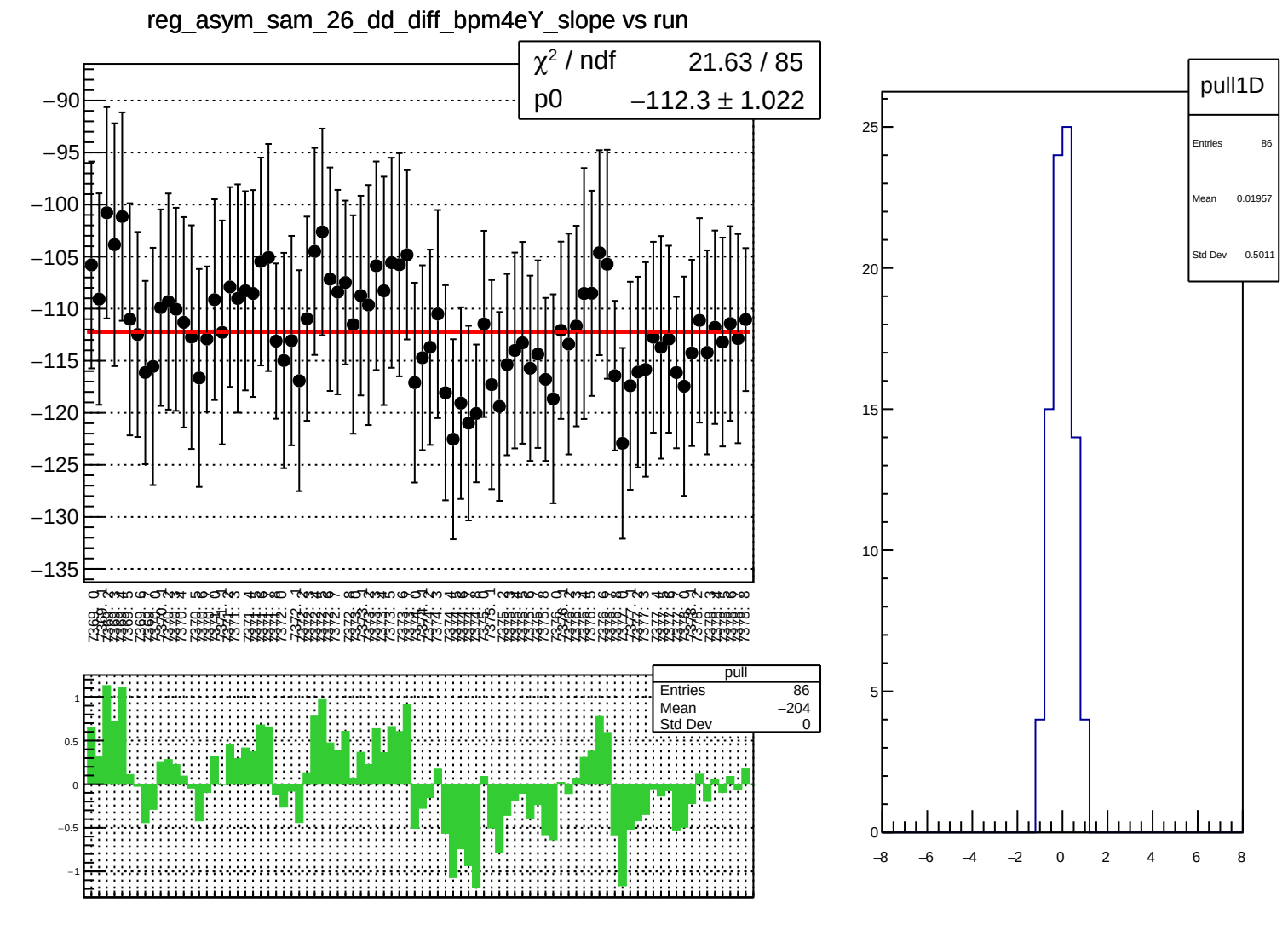

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 11.3 / 85
p0 −43 ± 0.8794
pull
Entries 86
Mean 81.81
Std Dev 65.26

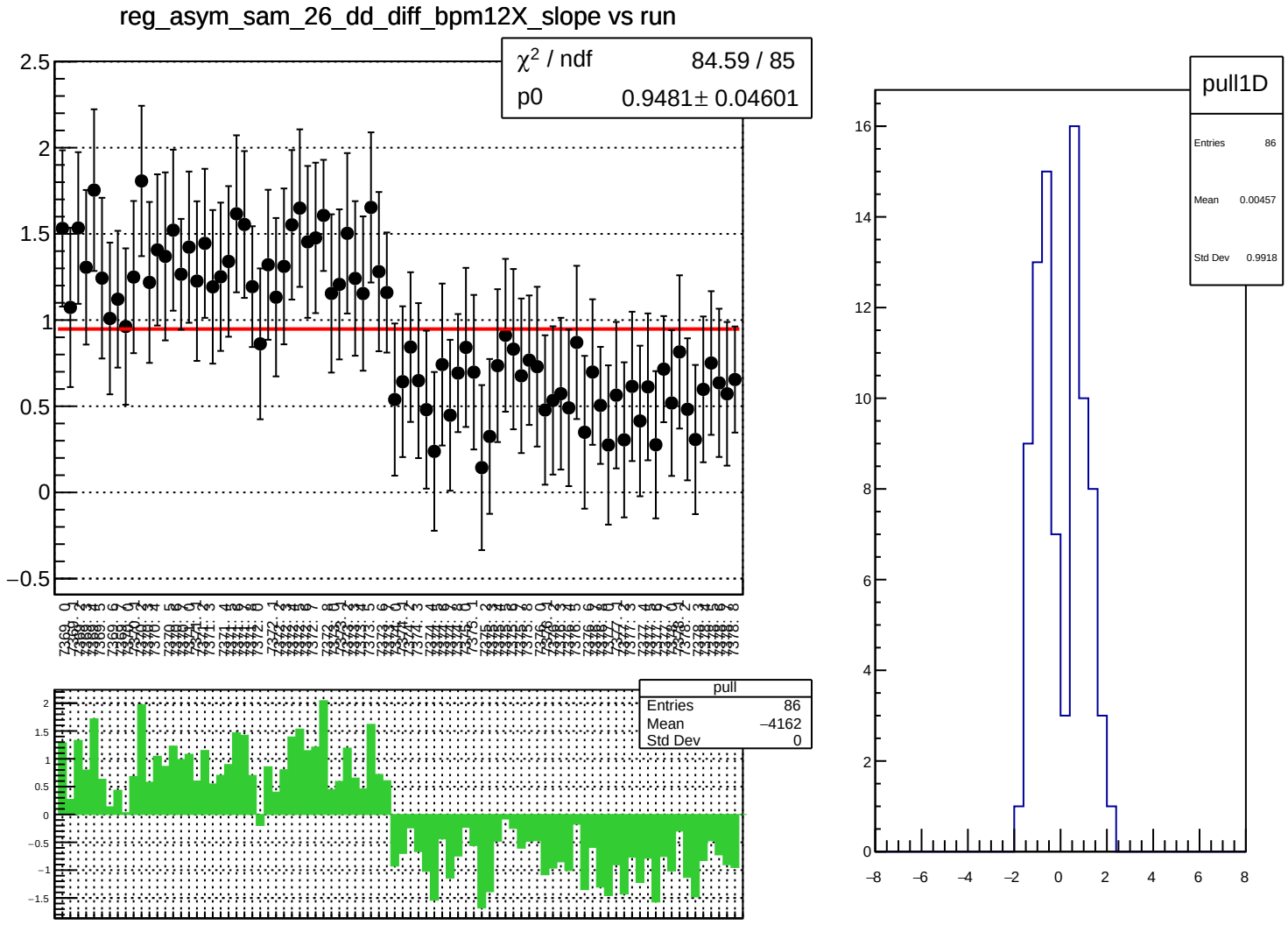

pull1D
Entries 86
Mean 0.009492
Std Dev 0.3624

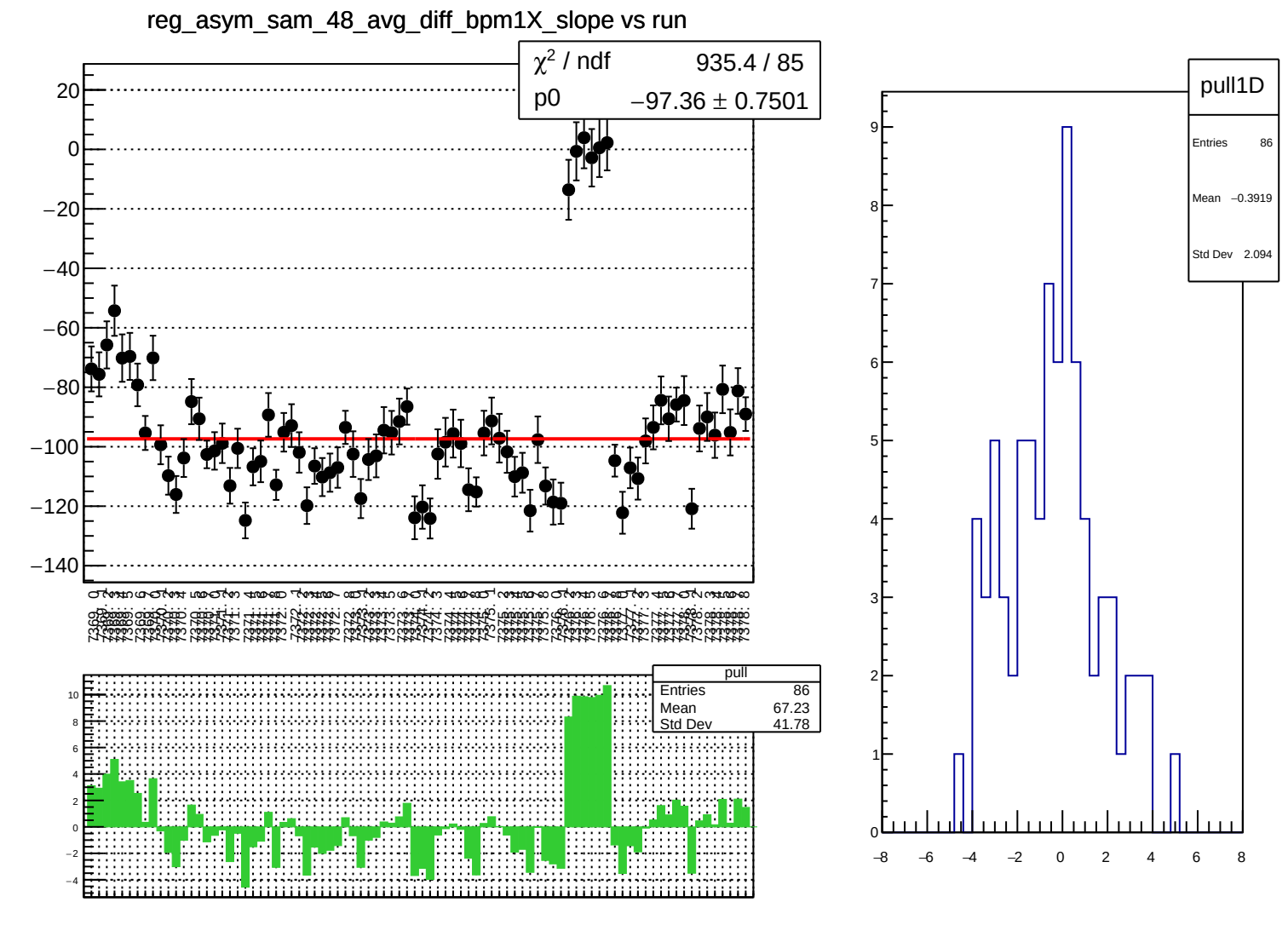

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.07 / 85
p0 −35.23 ± 0.9623
pull
Entries 86
Mean −107.6
Std Dev 0
pull1D
Entries 86
Mean −0.01718
Std Dev 0.3895

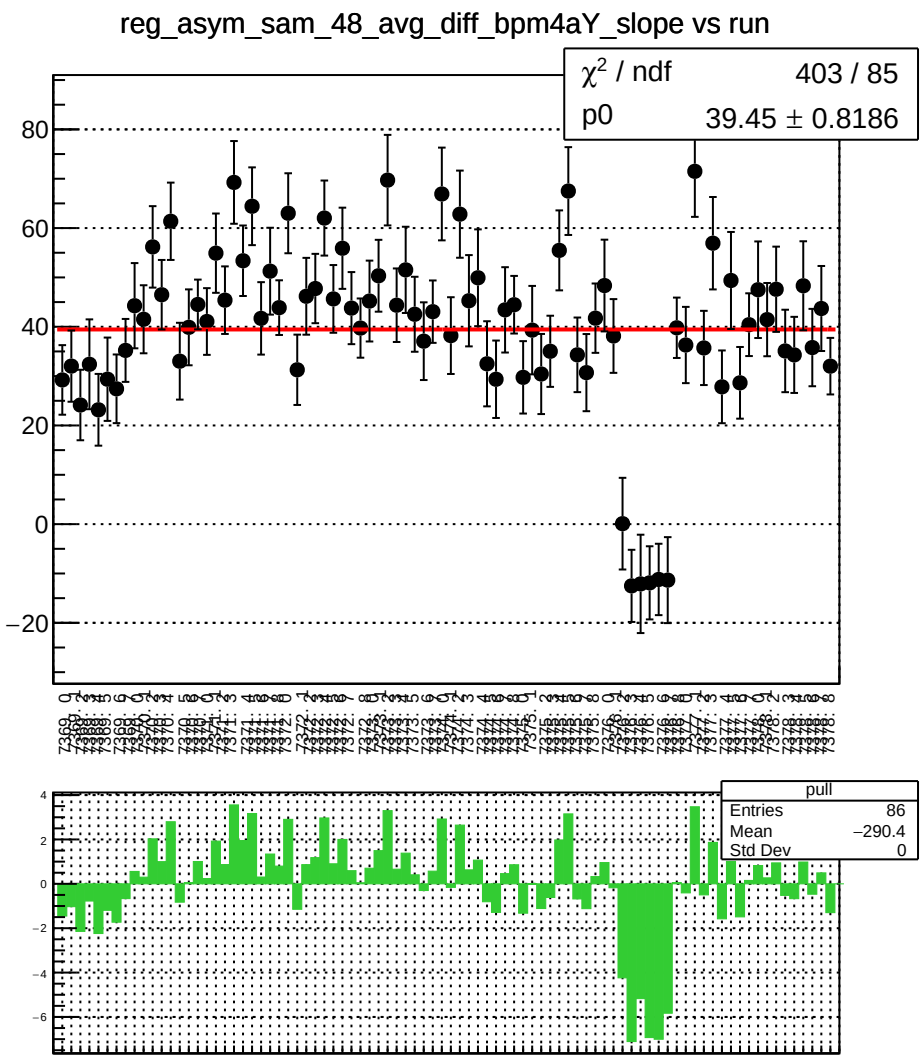

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.99 / 85
p0 −82.04 ± 0.9124
pull
Entries 86
Mean 264.8
Std Dev 0

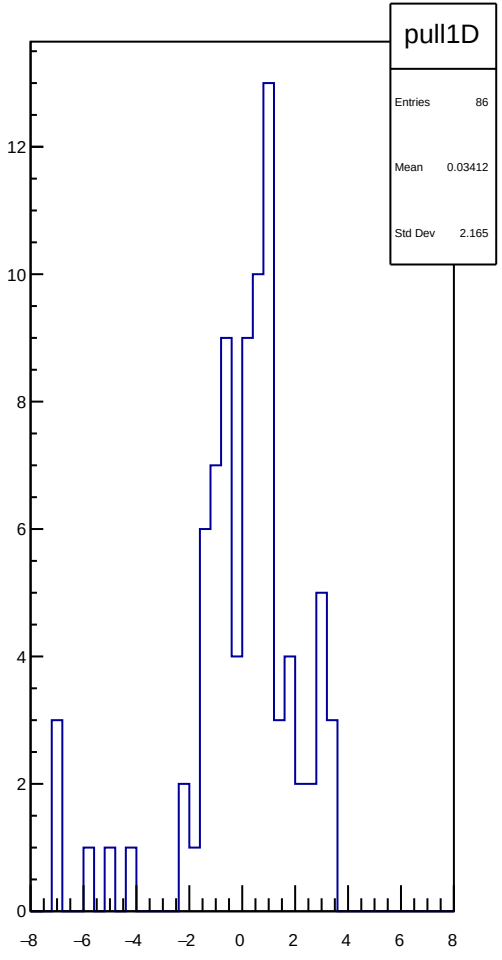

pull1D
Entries 86
Mean −0.004502
Std Dev 0.3574

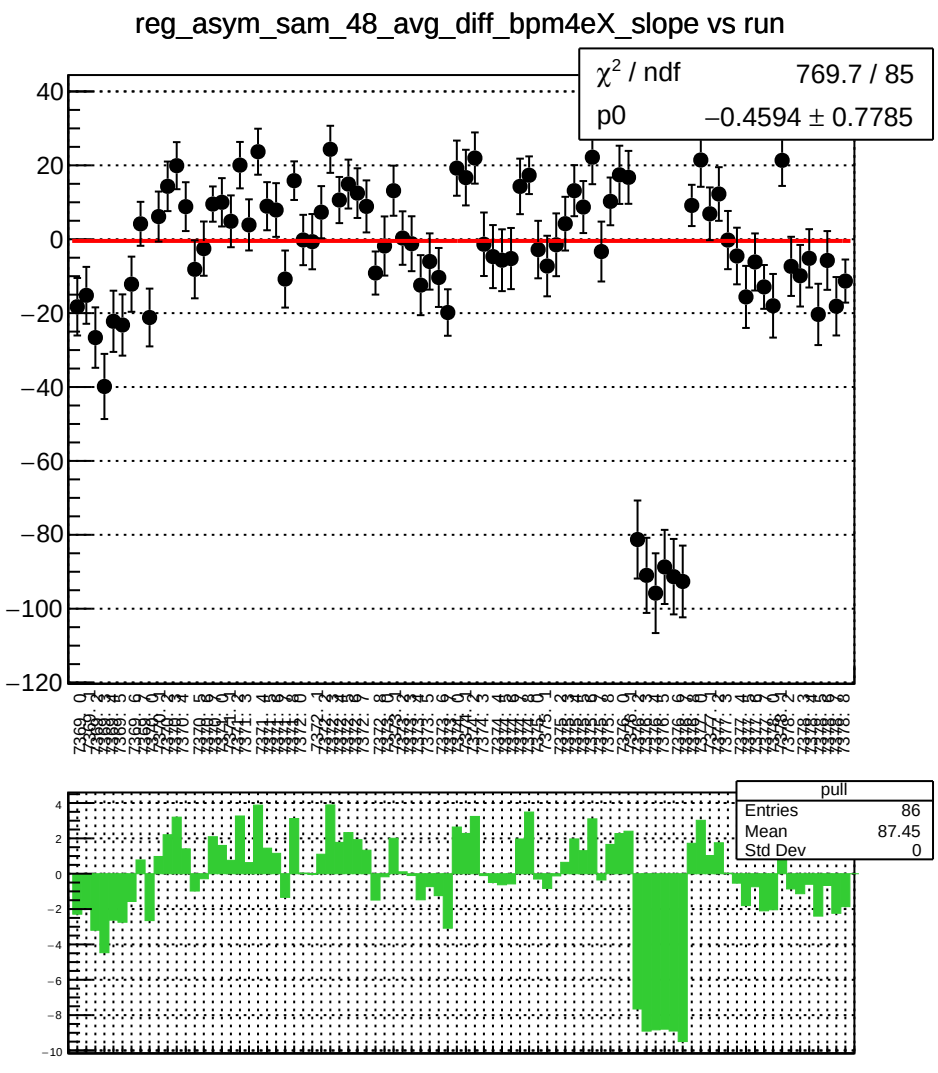

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.63 / 85
p0 −112.3 ± 1.022
pull
Entries 86
Mean −204
Std Dev 0
pull1D
Entries 86
Mean 0.01957
Std Dev 0.5011

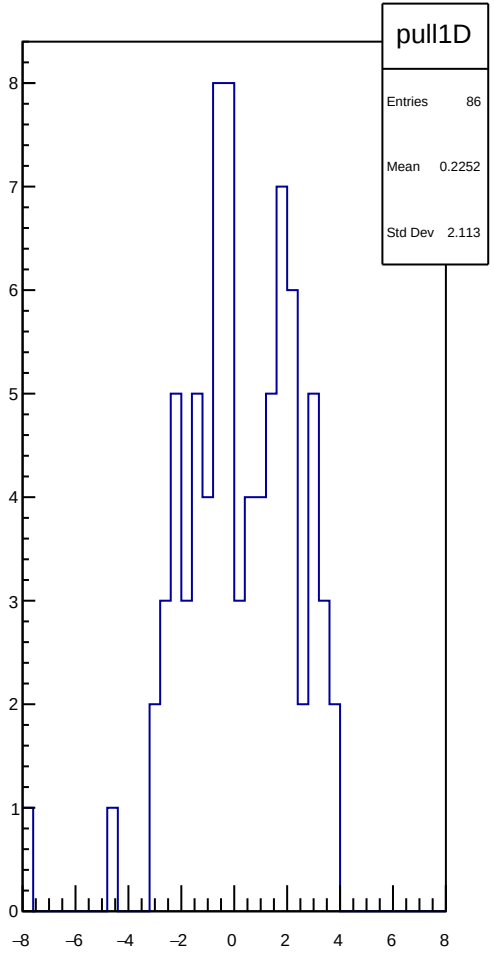

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 84.59 / 85
p0 0.9481± 0.04601
pull
Entries 86
Mean −4162
Std Dev 0
pull1D
Entries 86
Mean 0.00457
Std Dev 0.9918

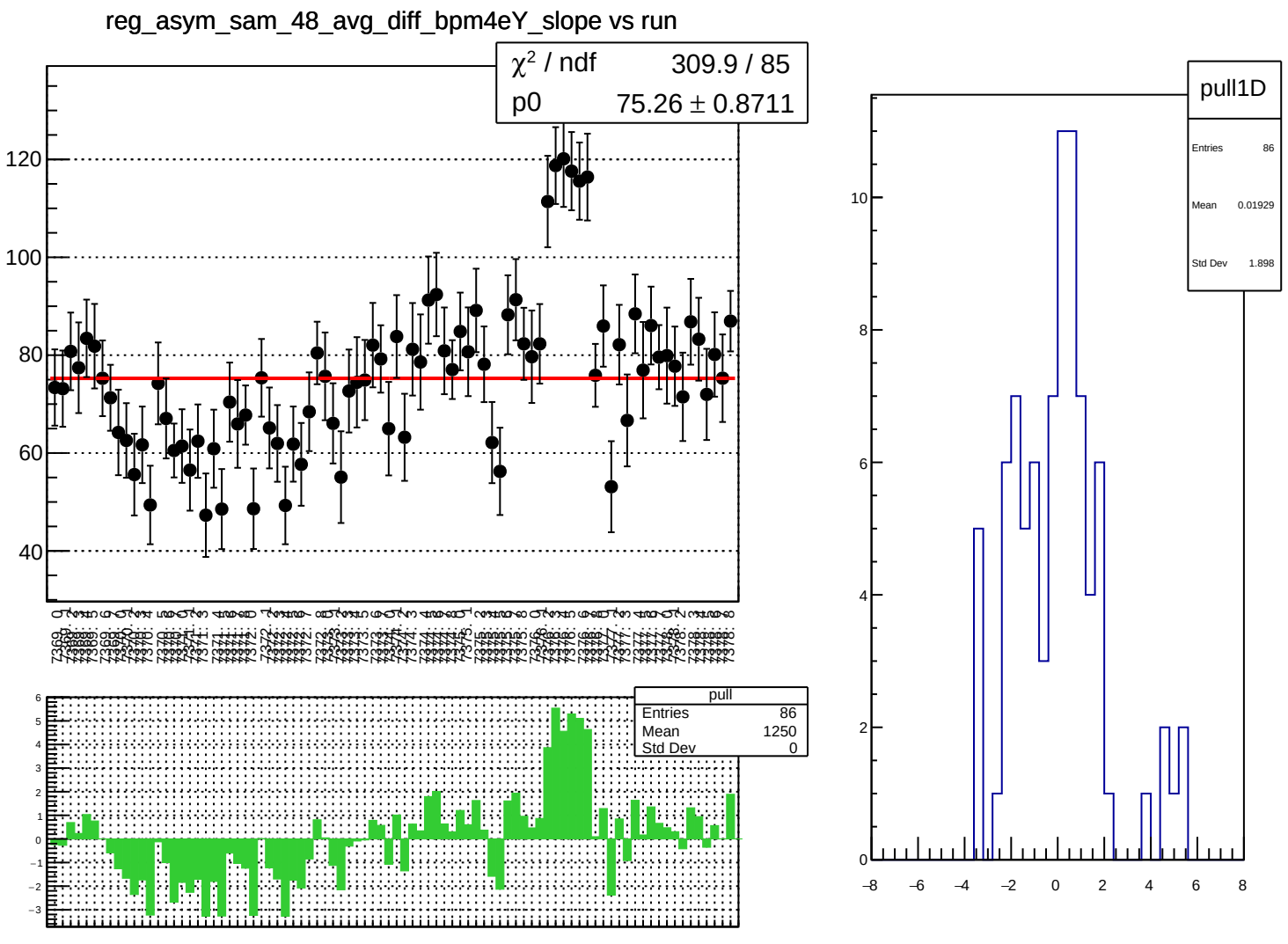

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 935.4 / 85
p0 −97.36 ± 0.7501
pull
Entries 86
Mean 67.23
Std Dev 41.78
pull1D
Entries 86
Mean −0.3919
Std Dev 2.094

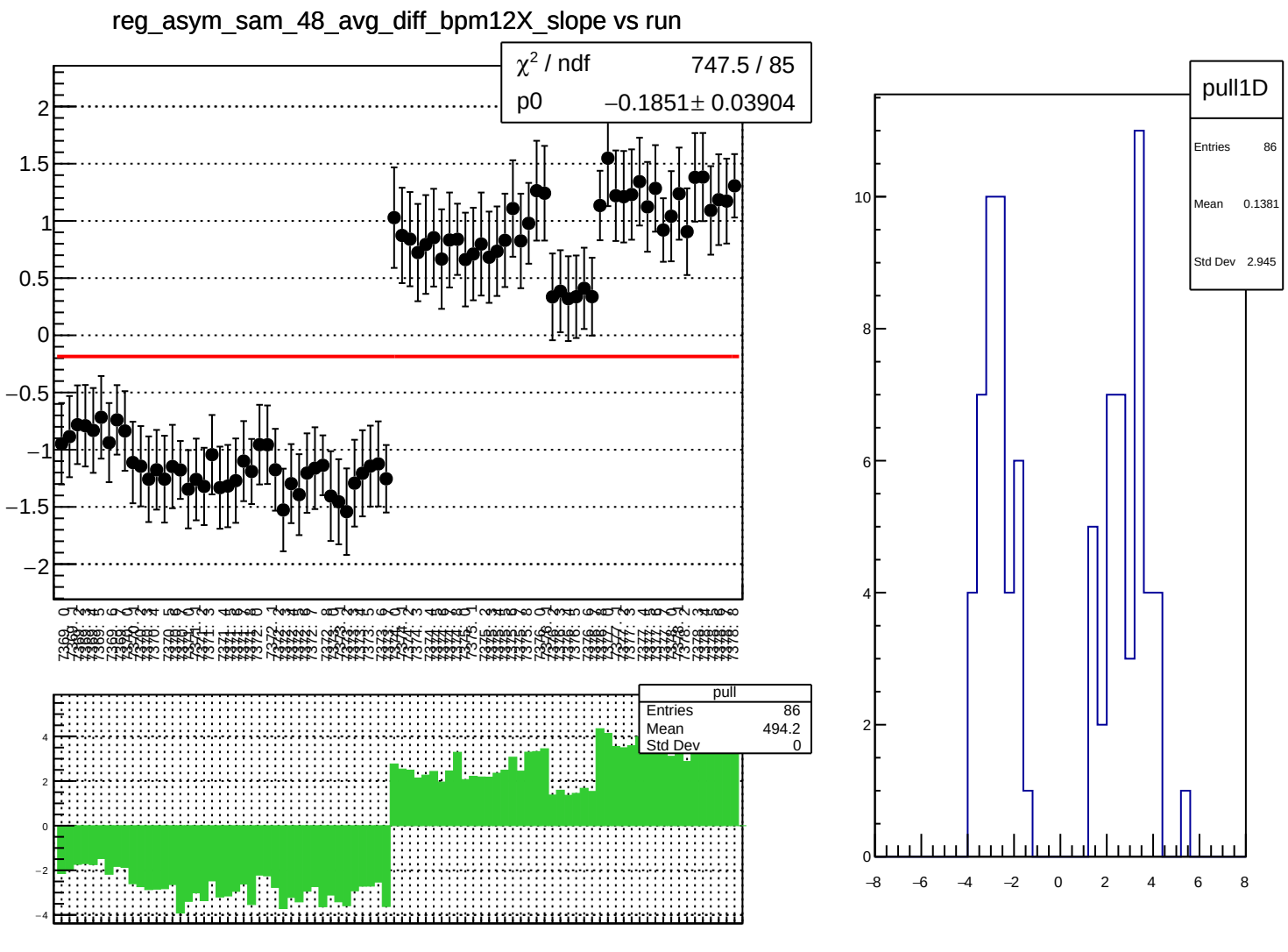

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 403 / 85
p0 39.45 ± 0.8186
pull
Entries 86
Mean −290.4
Std Dev 0

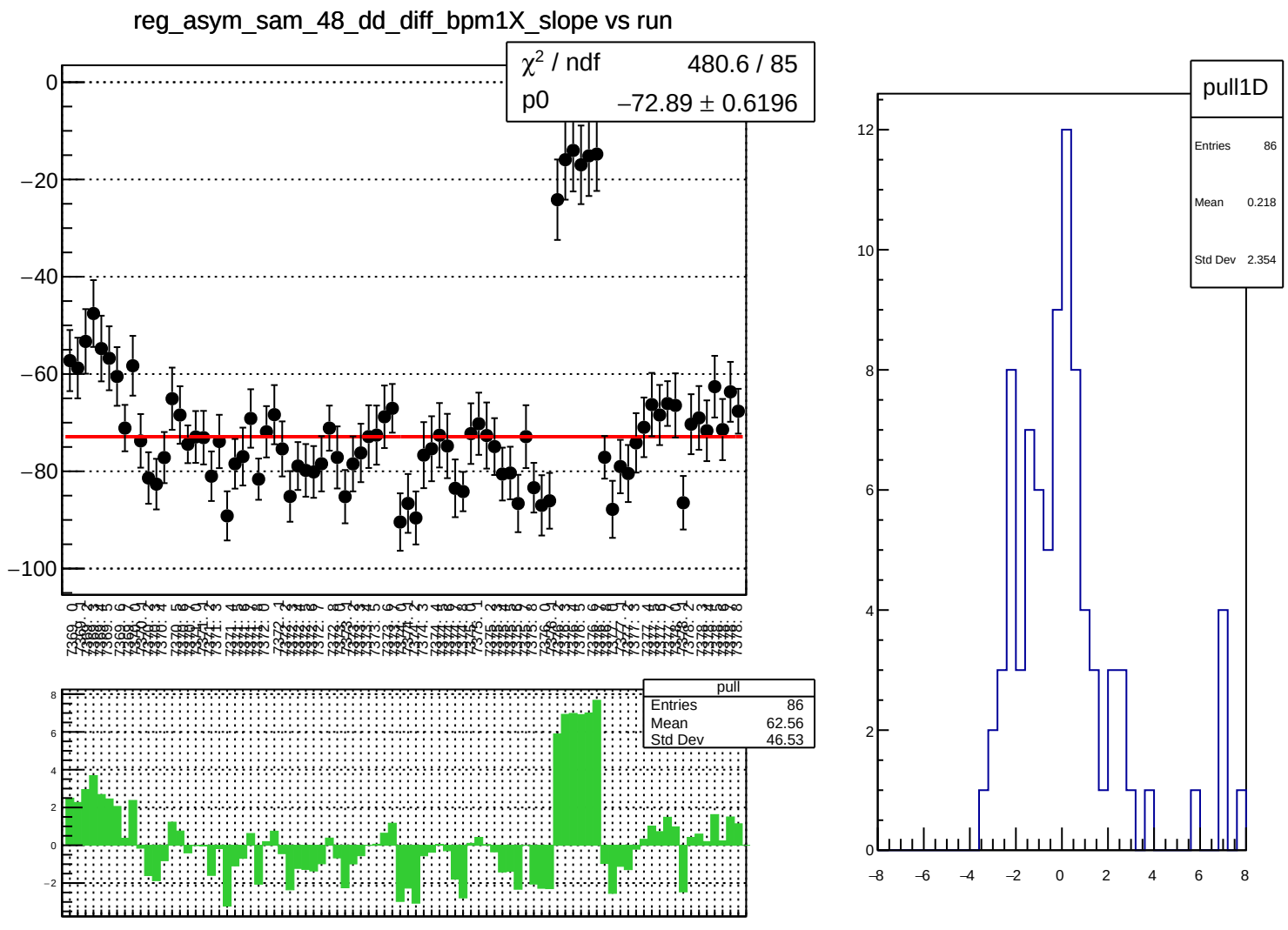

pull1D
Entries 86
Mean 0.03412
Std Dev 2.165

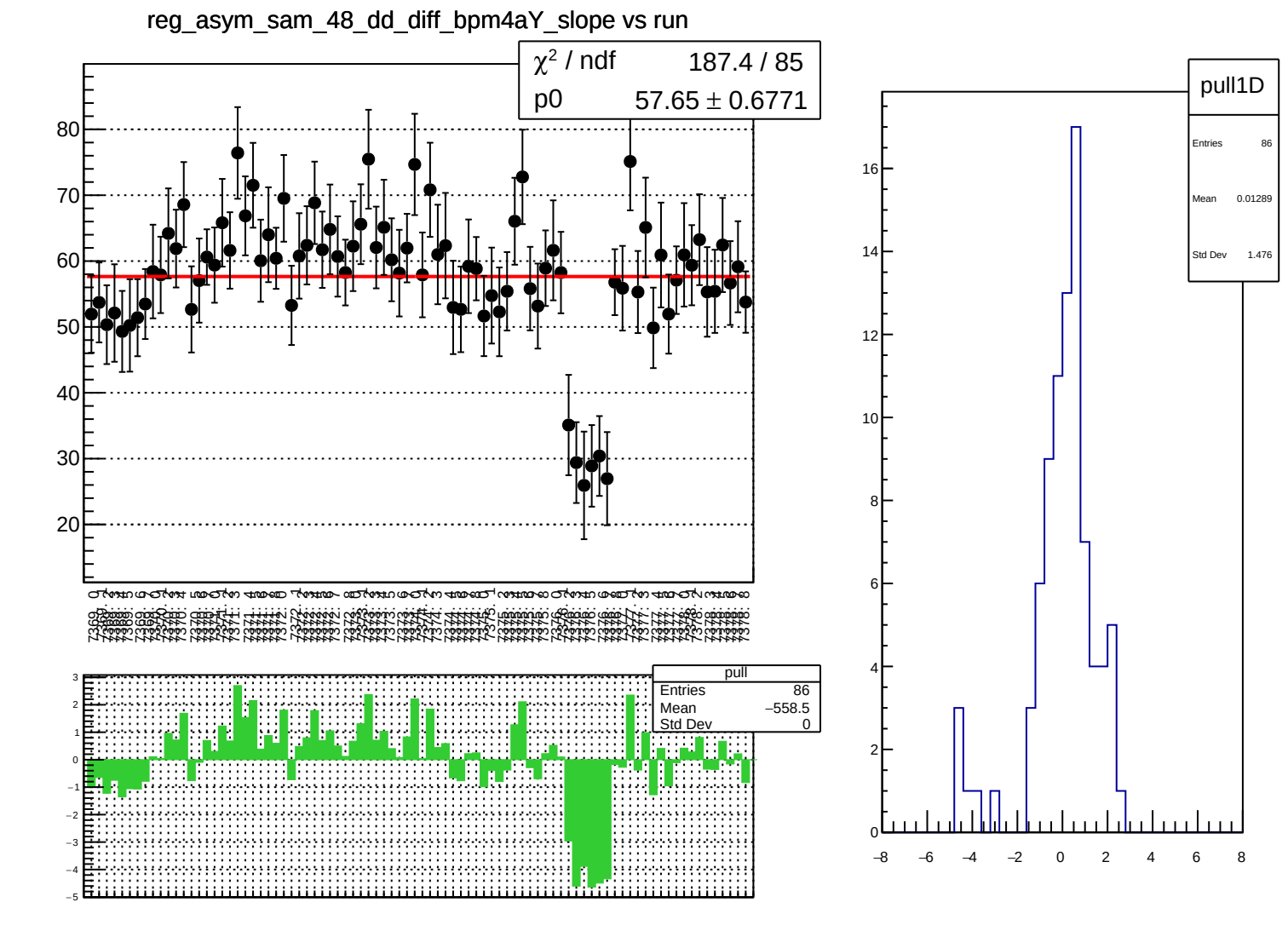

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 769.7 / 85
p0 −0.4594 ± 0.7785
pull
Entries 86
Mean 87.45
Std Dev 0

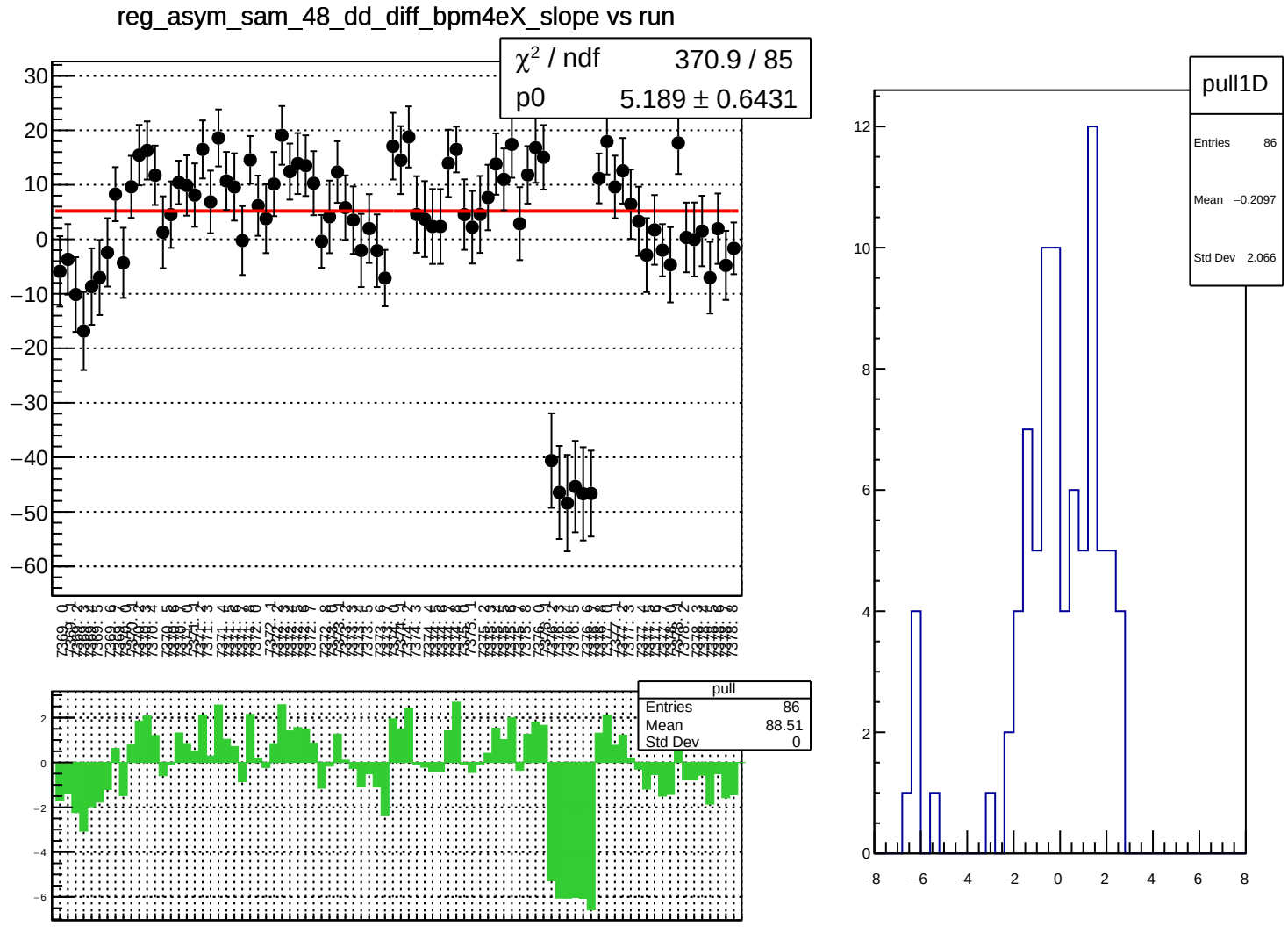

pull1D
Entries 86
Mean 0.2252
Std Dev 2.113

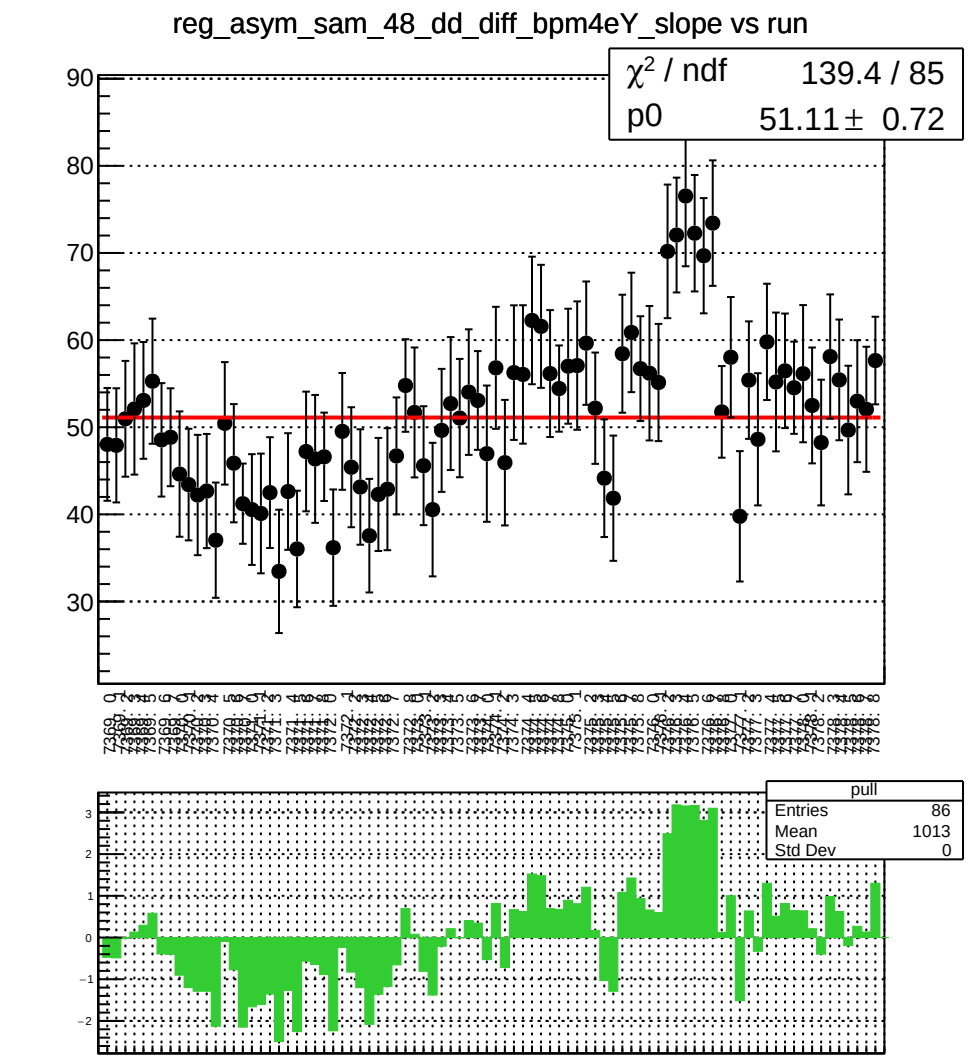

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 309.9 / 85
p0 75.26 ± 0.8711
pull
Entries 86
Mean 1250
Std Dev 0
pull1D
Entries 86
Mean 0.01929
Std Dev 1.898

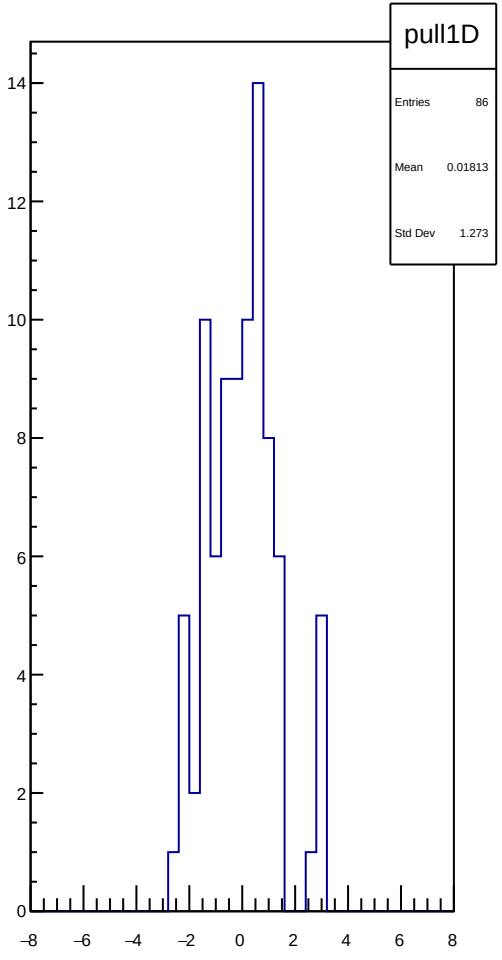

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 747.5 / 85
p0 −0.1851± 0.03904
pull
Entries 86
Mean 494.2
Std Dev 0
pull1D
Entries 86
Mean 0.1381
Std Dev 2.945

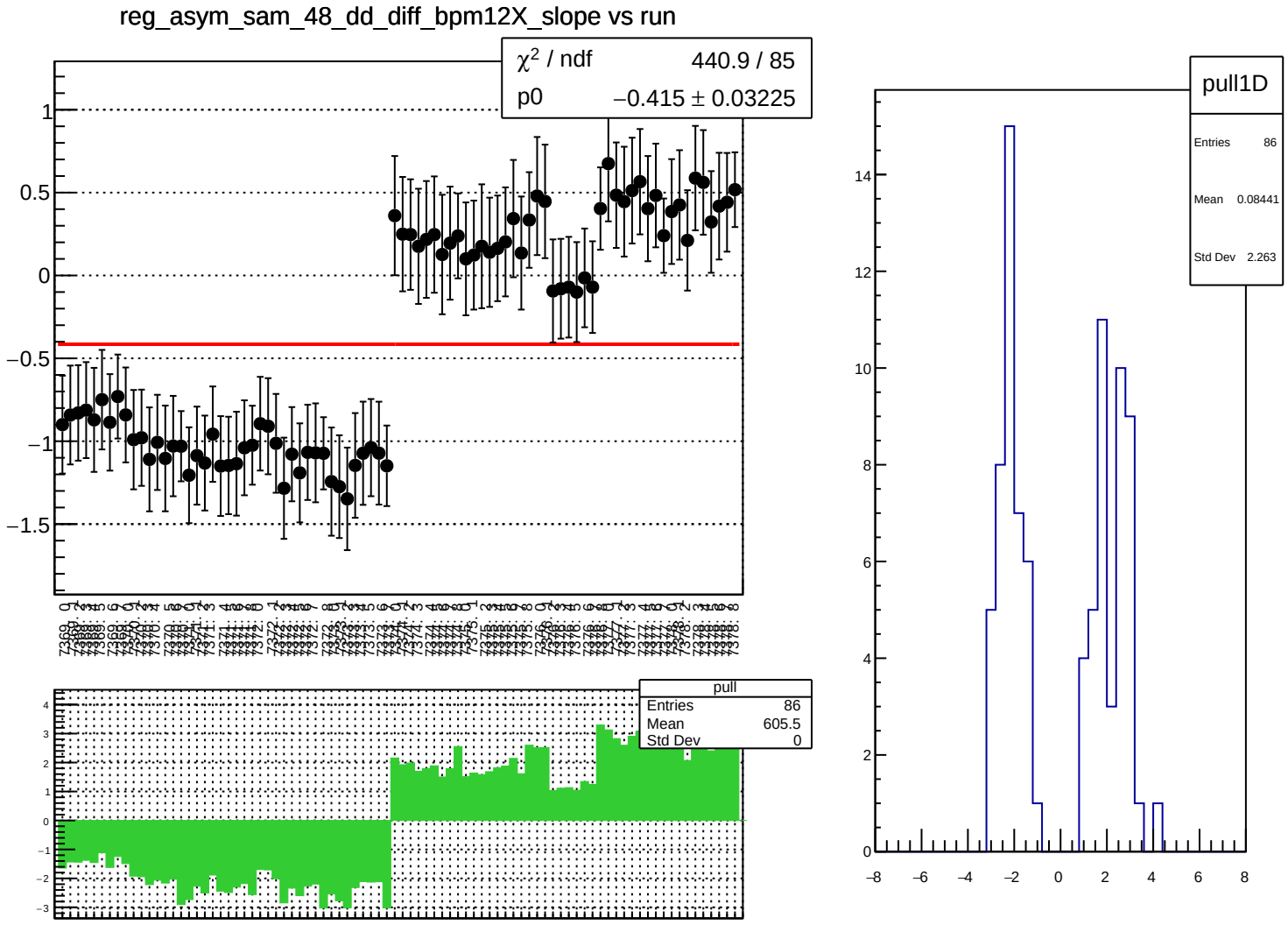

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 480.6 / 85
p0 −72.89 ± 0.6196
pull
Entries 86
Mean 62.56
Std Dev 46.53
pull1D
Entries 86
Mean 0.218
Std Dev 2.354

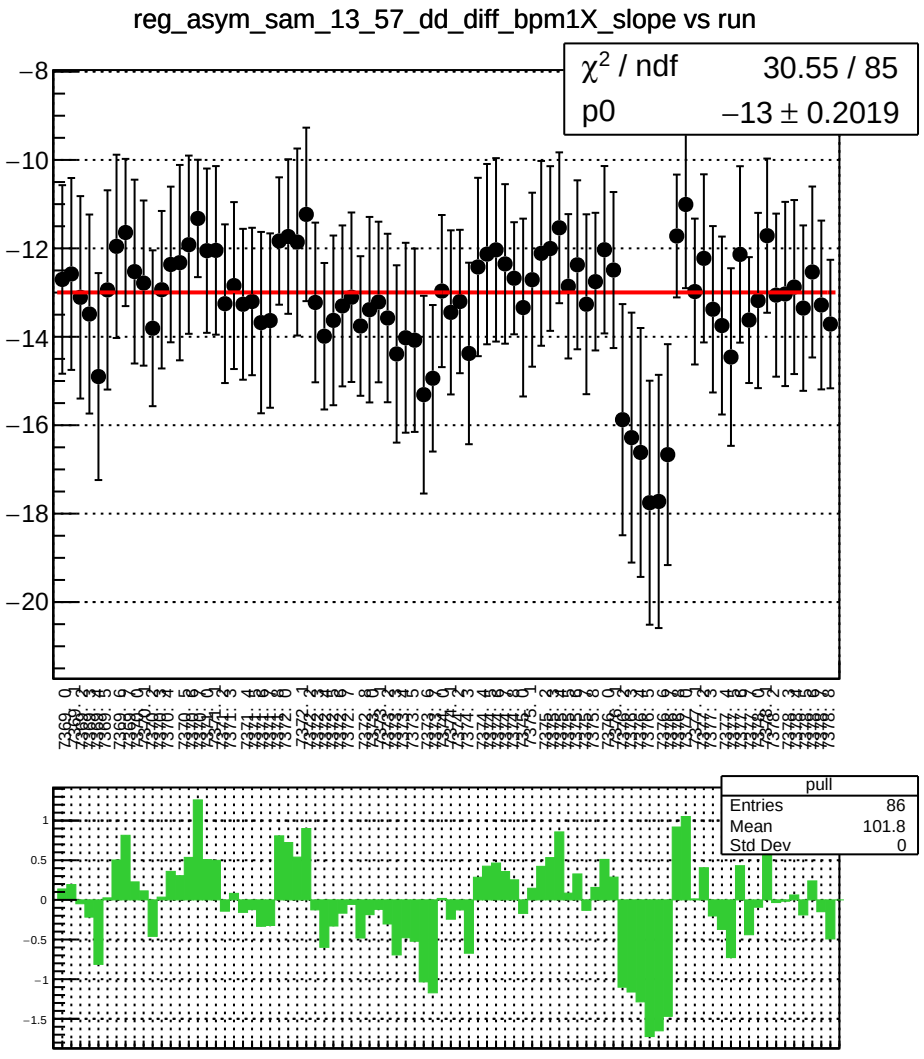

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 187.4 / 85
p0 57.65 ± 0.6771
pull
Entries 86
Mean −558.5
Std Dev 0
pull1D
Entries 86
Mean 0.01289
Std Dev 1.476

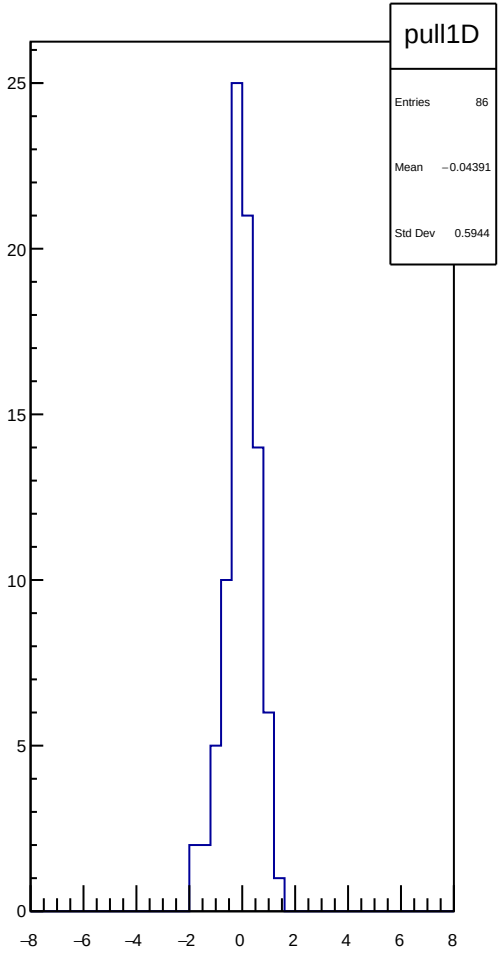

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 370.9 / 85
p0 5.189 ± 0.6431
pull
Entries 86
Mean 88.51
Std Dev 0
pull1D
Entries 86
Mean −0.2097
Std Dev 2.066

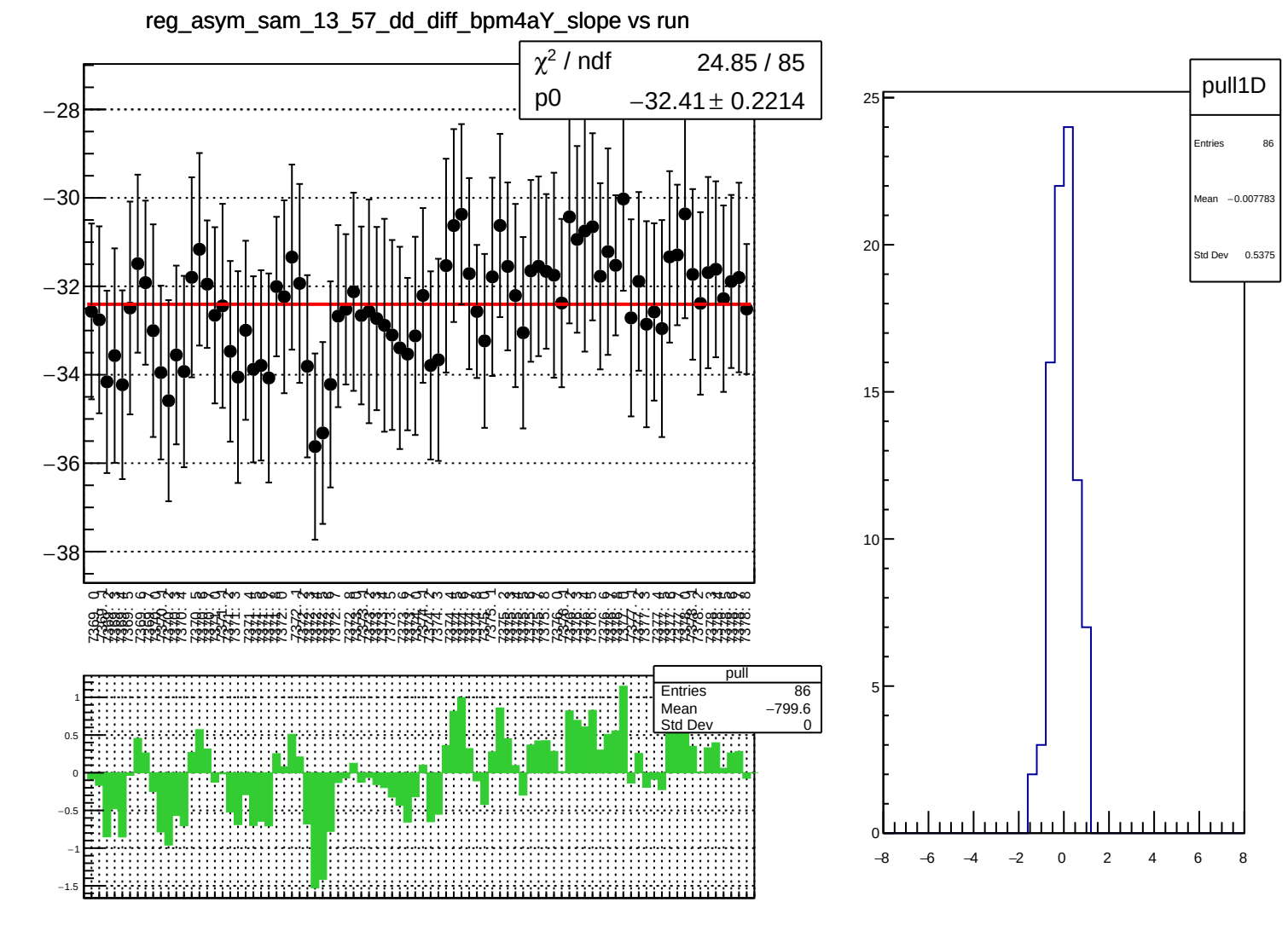

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 139.4 / 85
p0 51.11 ± 0.72
pull
Entries 86
Mean 1013
Std Dev 0

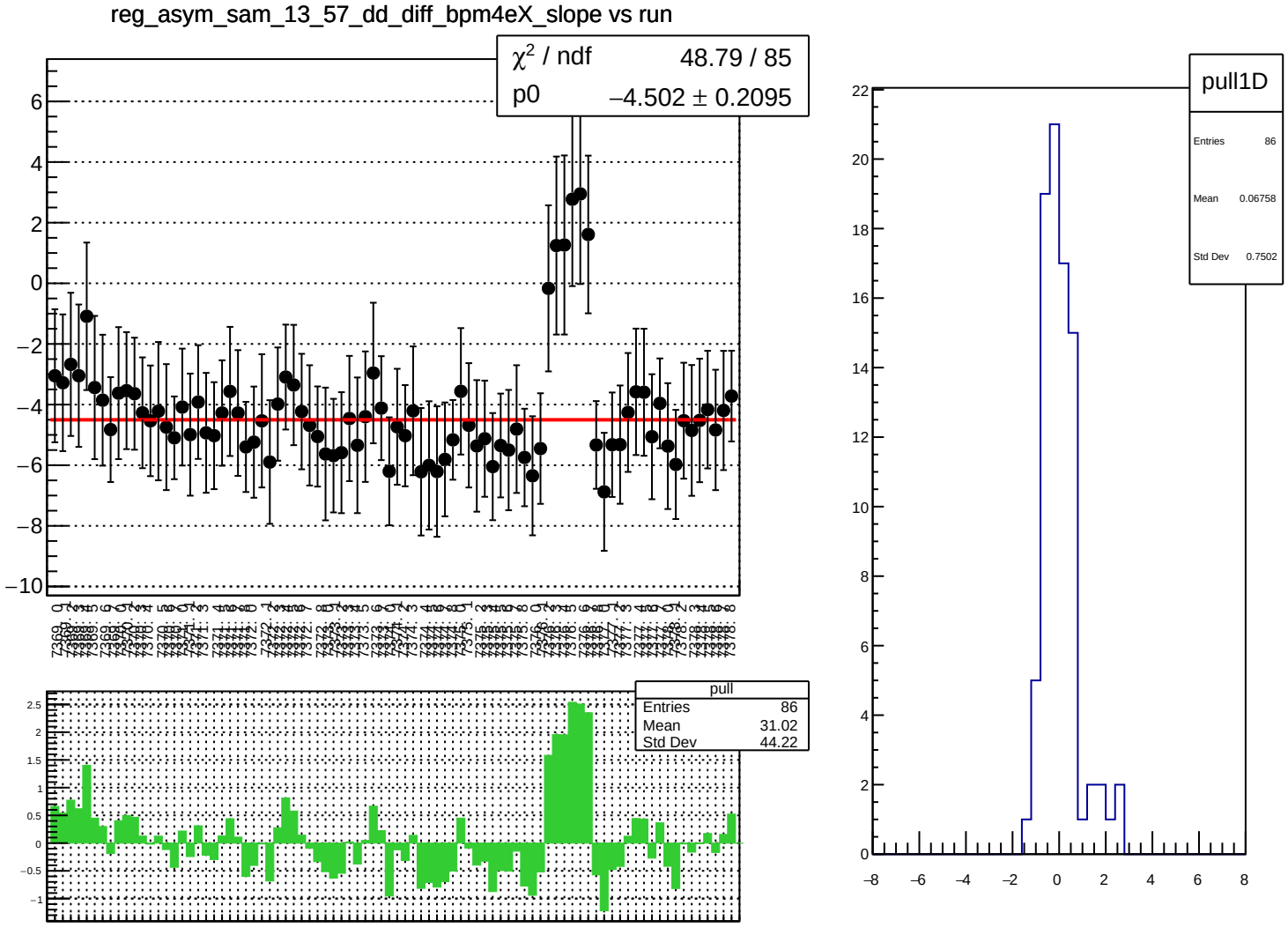

pull1D
Entries 86
Mean 0.01813
Std Dev 1.273

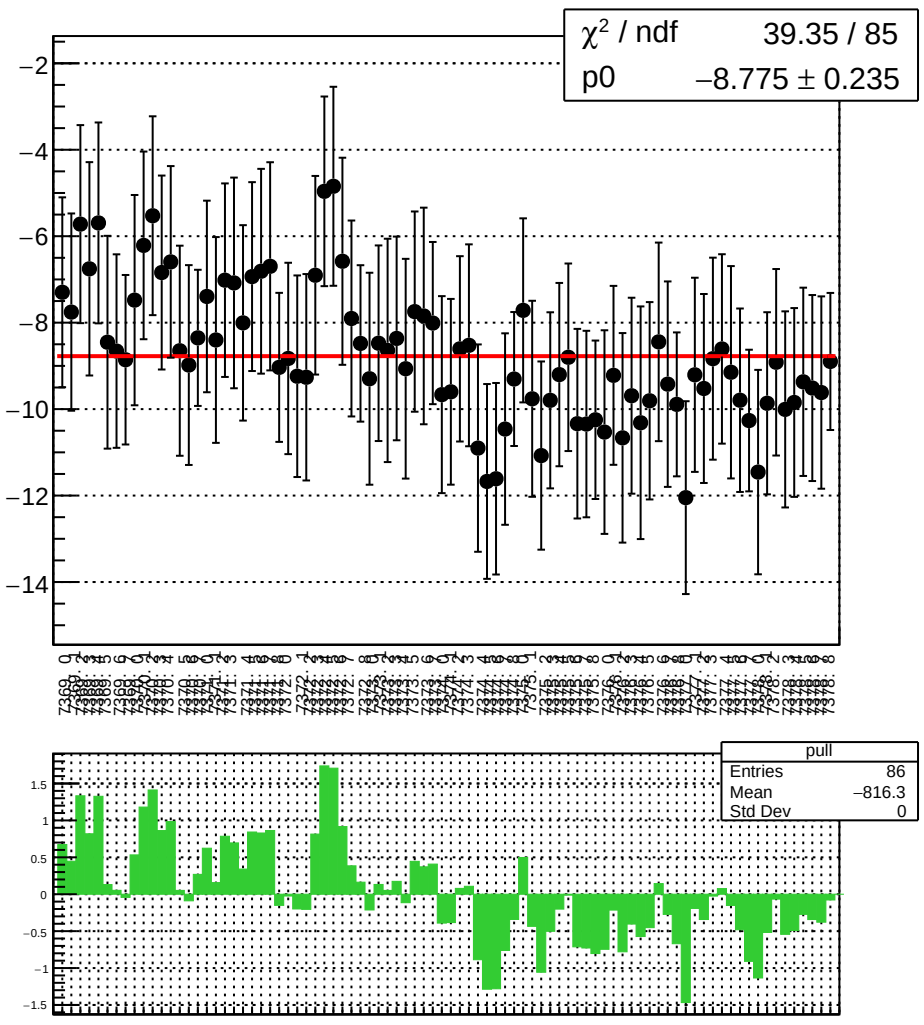

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 440.9 / 85
p0 −0.415 ± 0.03225
pull
Entries 86
Mean 605.5
Std Dev 0
pull1D
Entries 86
Mean 0.08441
Std Dev 2.263

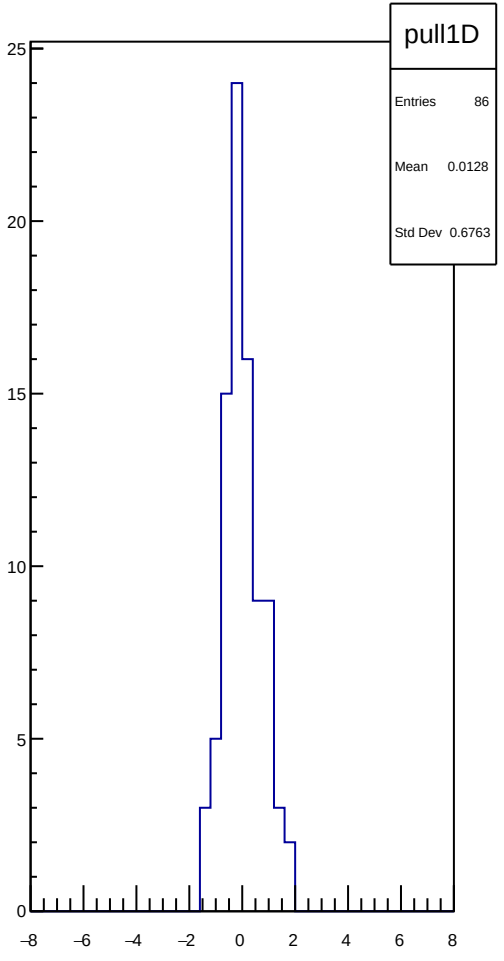

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 30.55 / 85
p0 −13 ± 0.2019
pull
Entries 86
Mean 101.8
Std Dev 0

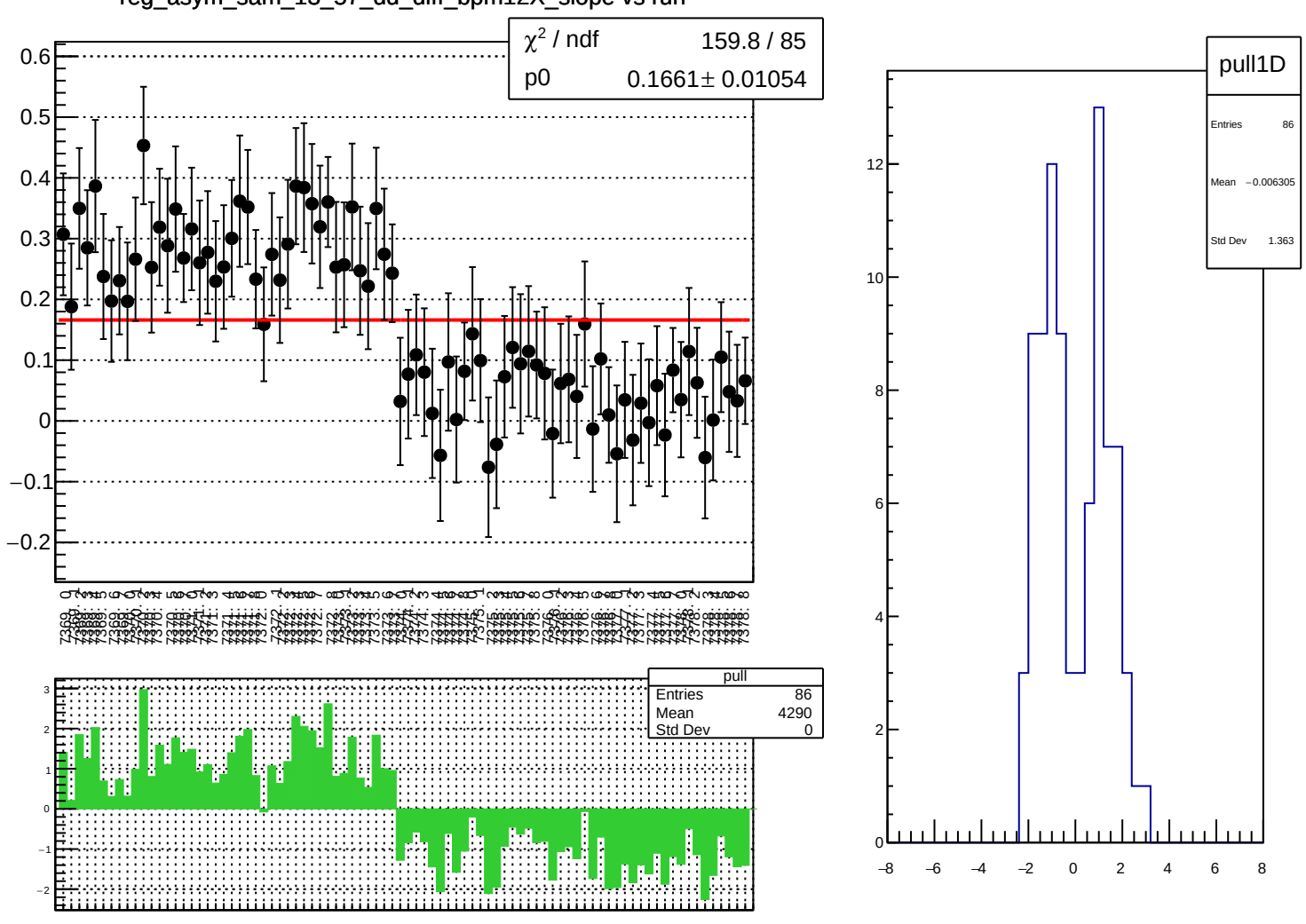

pull1D
Entries 86
Mean −0.04391
Std Dev 0.5944

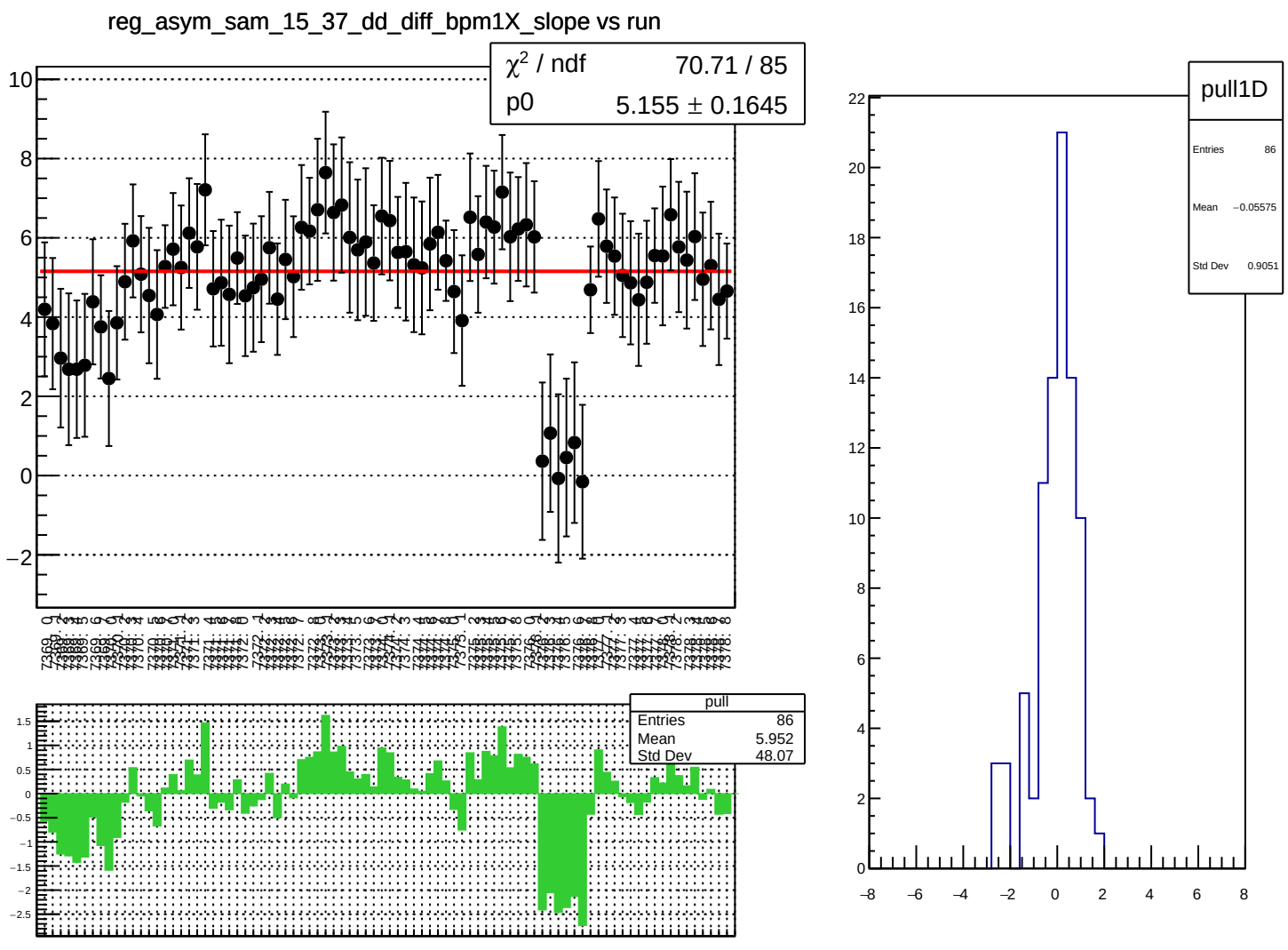

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.85 / 85
p0 −32.41 ± 0.2214
−28
−30
−32
−34
−36
−38
pull
Entries 86
Mean −799.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean −0.007783
Std Dev 0.5375
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

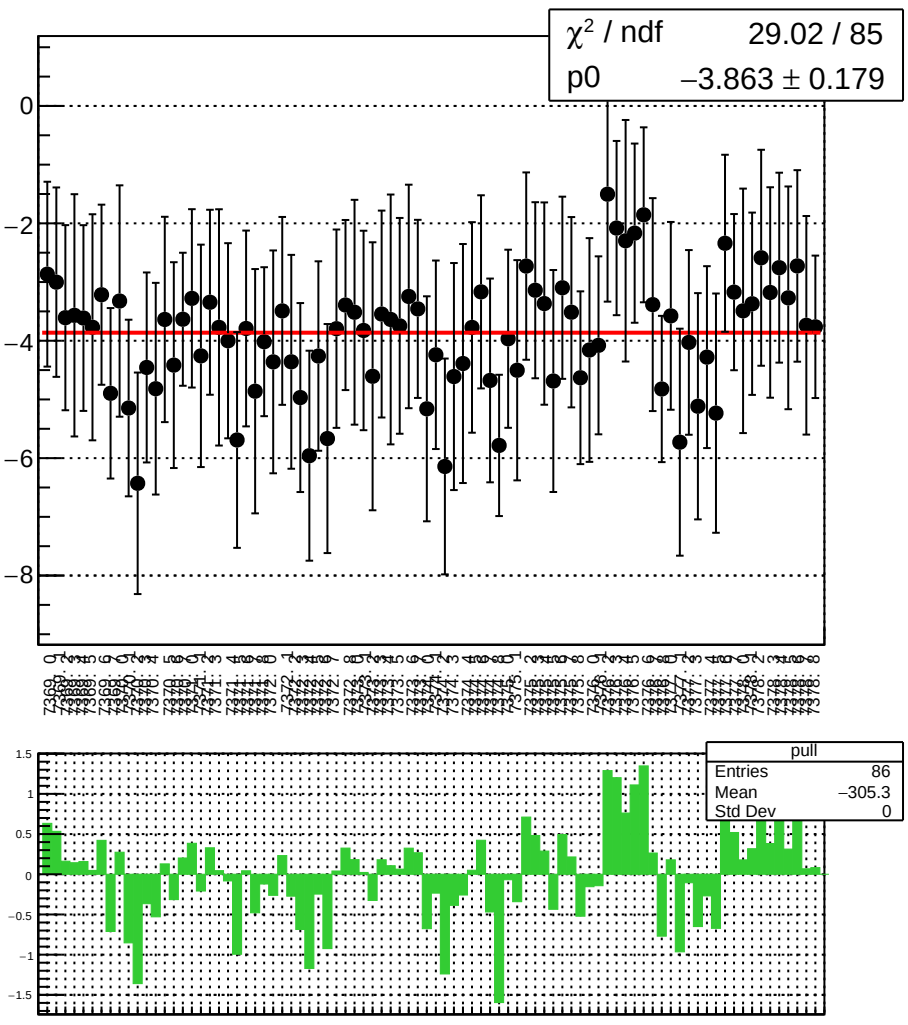

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.79 / 85
p0 −4.502 ± 0.2095
pull
Entries 86
Mean 31.02
Std Dev 44.22
pull1D
Entries 86
Mean 0.06758
Std Dev 0.7502

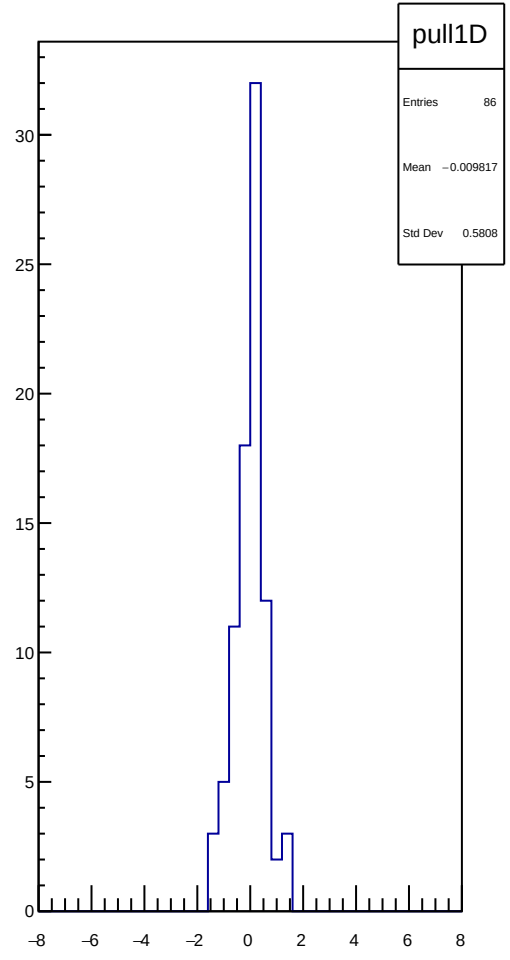

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.35 / 85
p0 −8.775 ± 0.235
pull
Entries 86
Mean −816.3
Std Dev 0

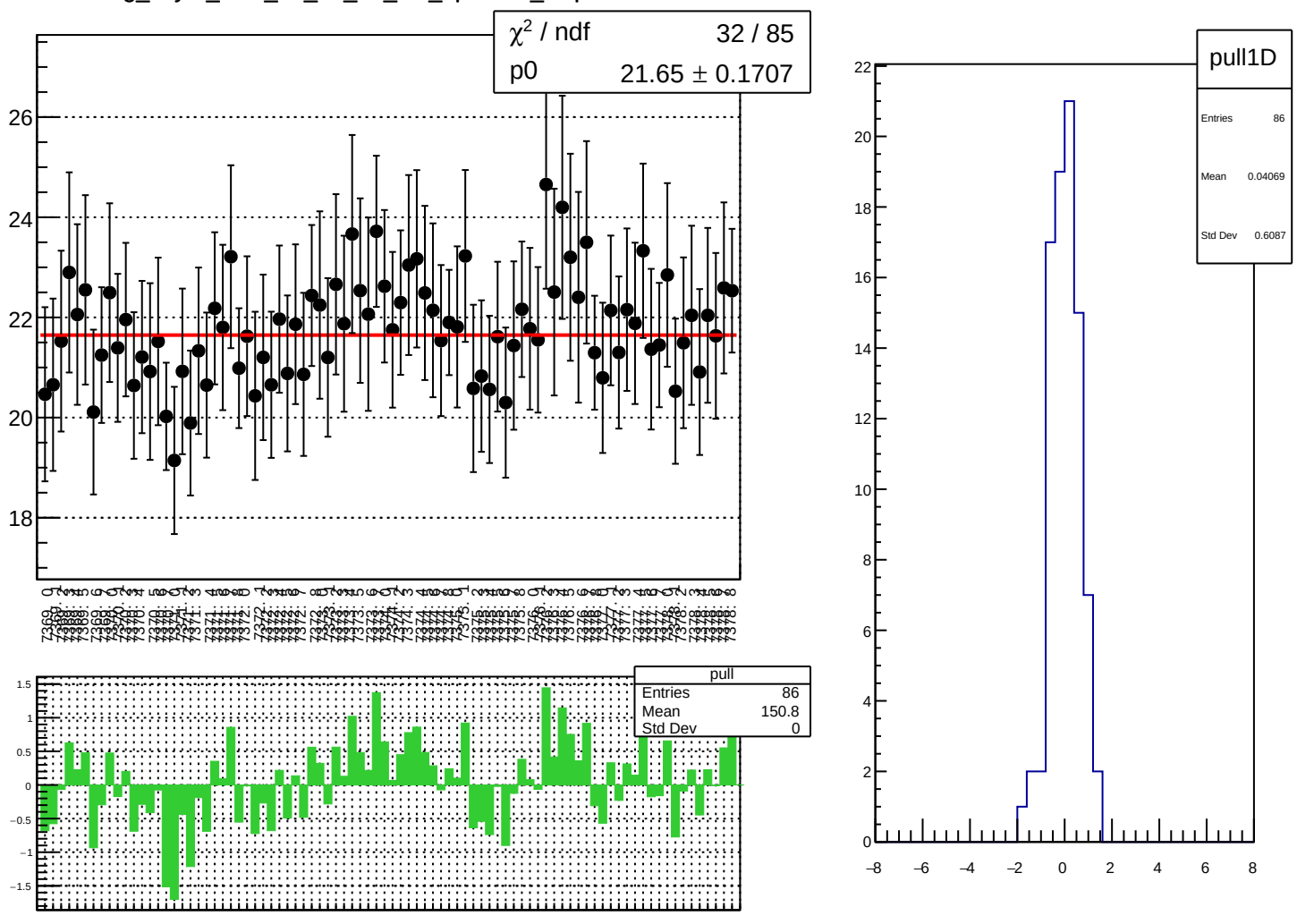

pull1D
Entries 86
Mean 0.0128
Std Dev 0.6763

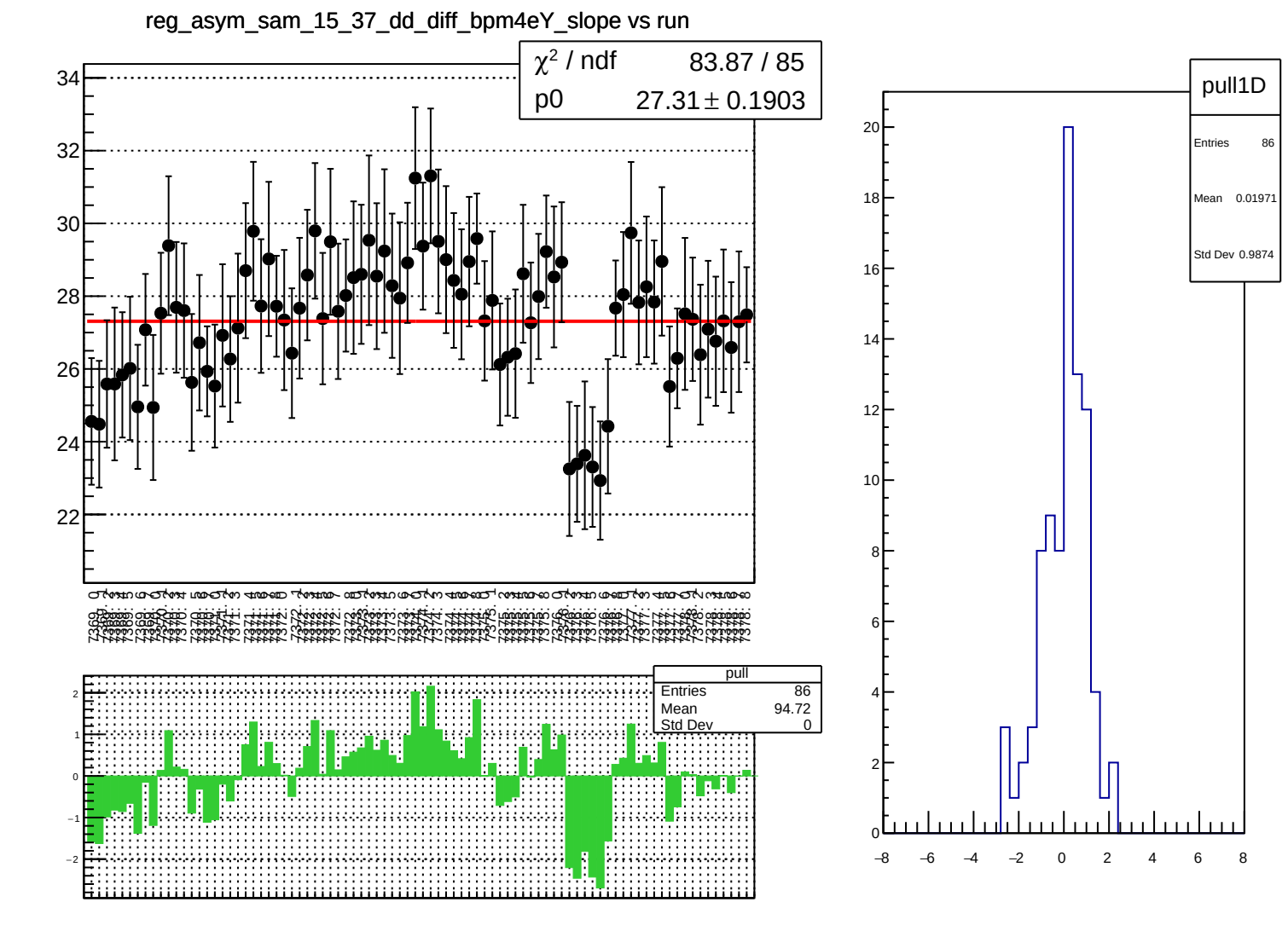

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 159.8 / 85
p0 0.1661± 0.01054
pull
Entries 86
Mean 4290
Std Dev 0
pull1D
Entries 86
Mean −0.006305
Std Dev 1.363

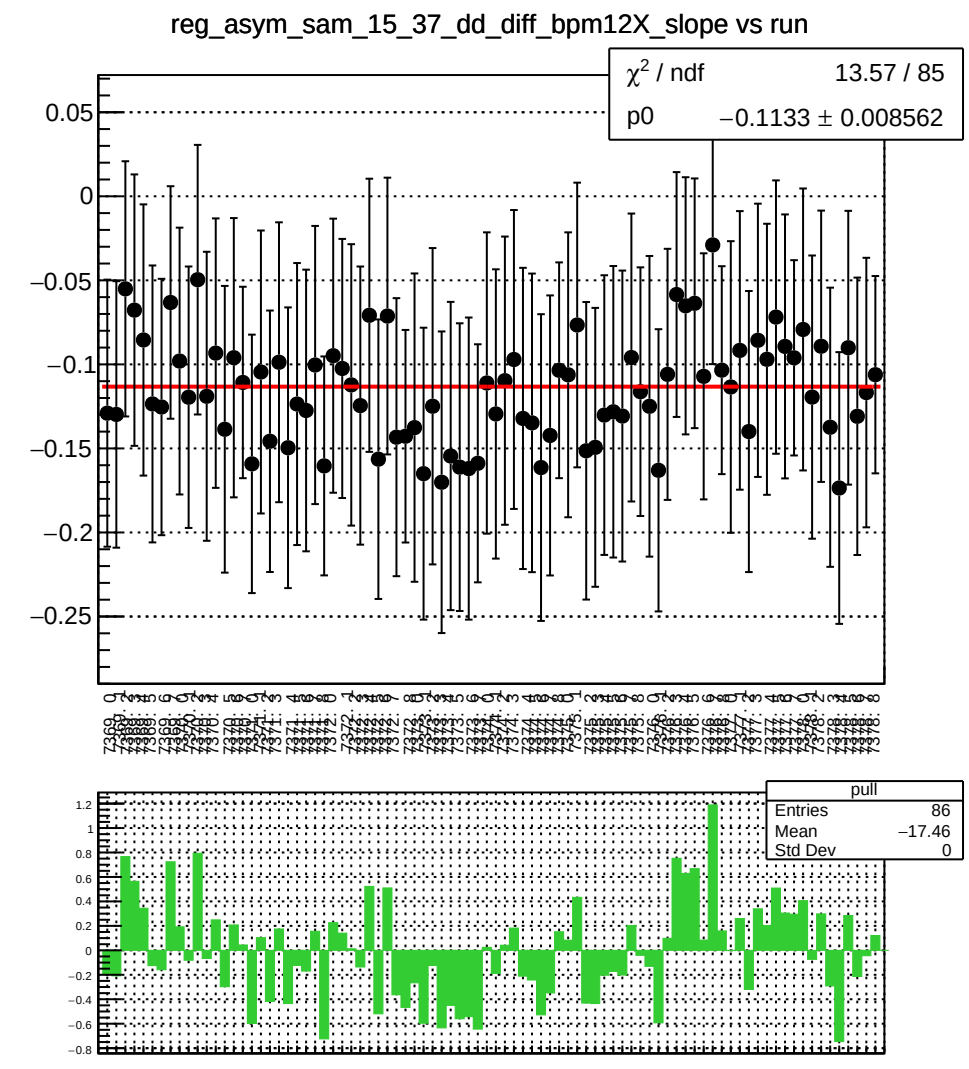

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 70.71 / 85
p0 5.155 ± 0.1645
pull
Entries 86
Mean 5.952
Std Dev 48.07
pull1D
Entries 86
Mean −0.05575
Std Dev 0.9051

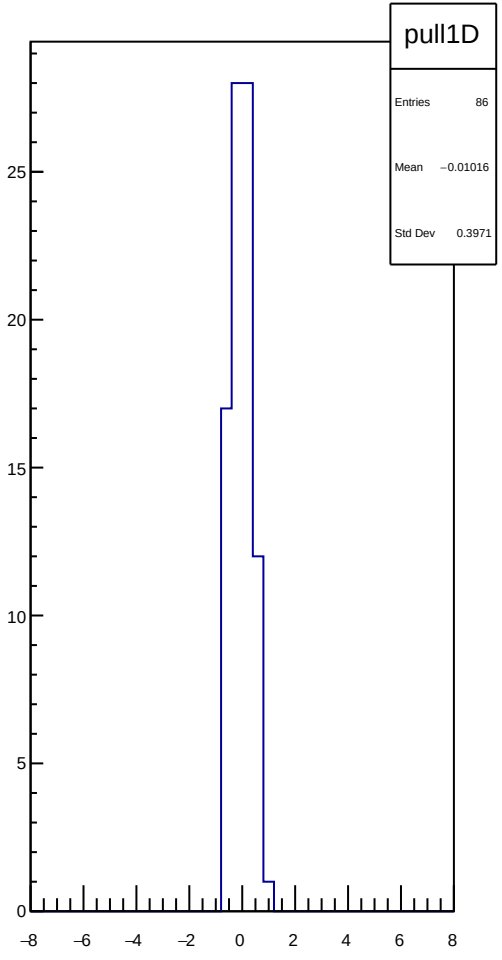

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.02 / 85
p0 −3.863 ± 0.179
pull
Entries 86
Mean −305.3
Std Dev 0

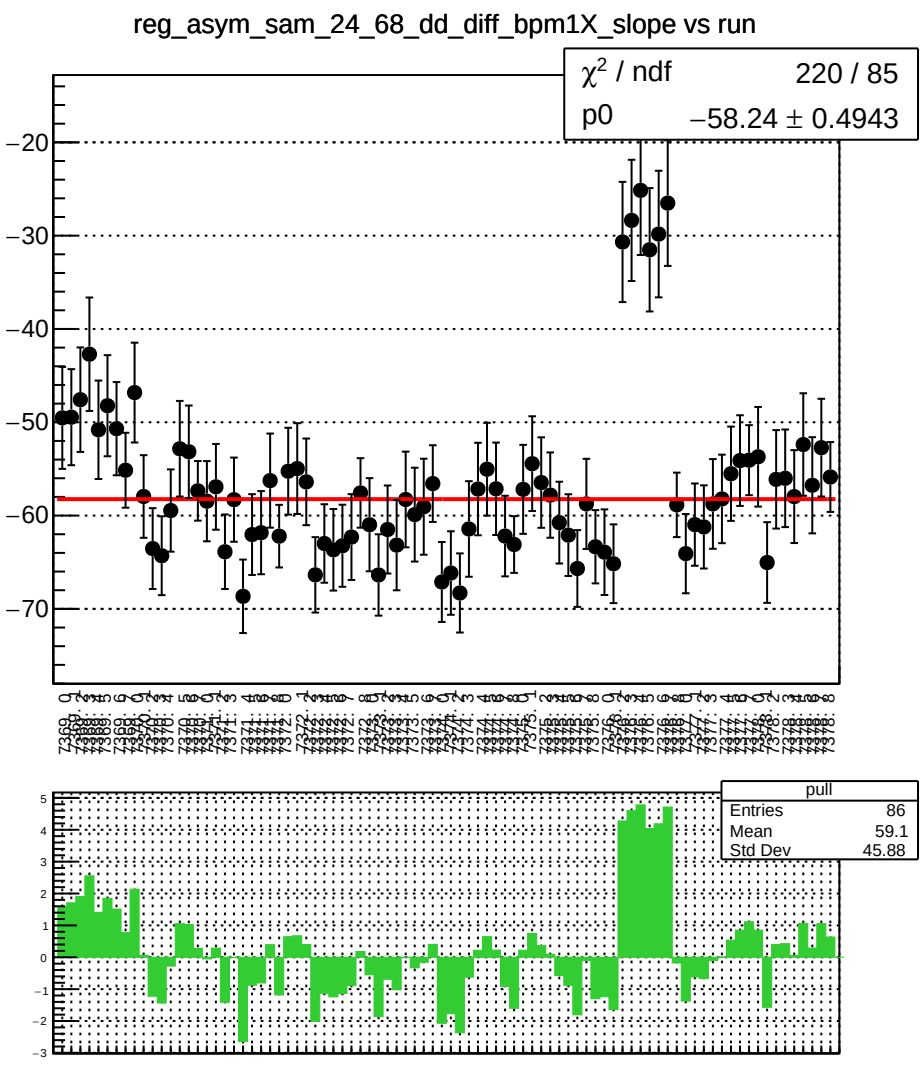

pull1D
Entries 86
Mean −0.009817
Std Dev 0.5808

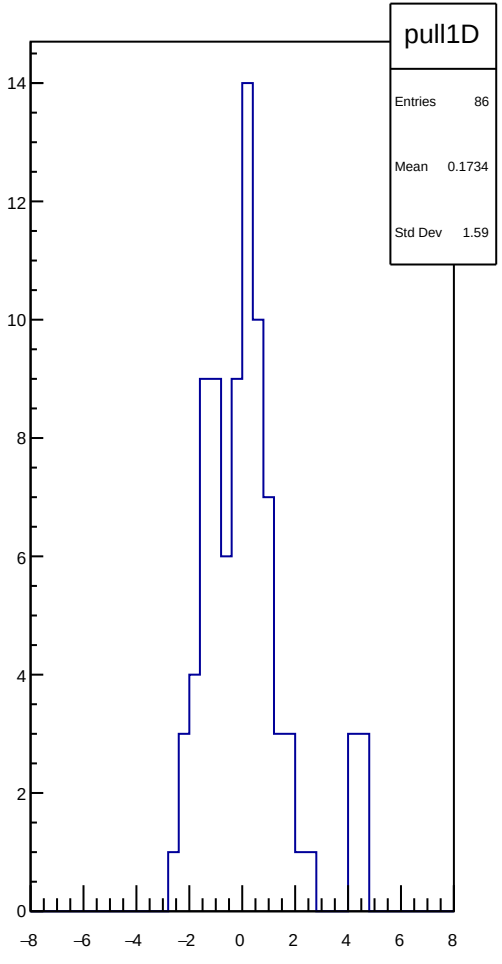

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 32 / 85
p0 21.65 ± 0.1707
pull
Entries 86
Mean 150.8
Std Dev 0
pull1D
Entries 86
Mean 0.04069
Std Dev 0.6087

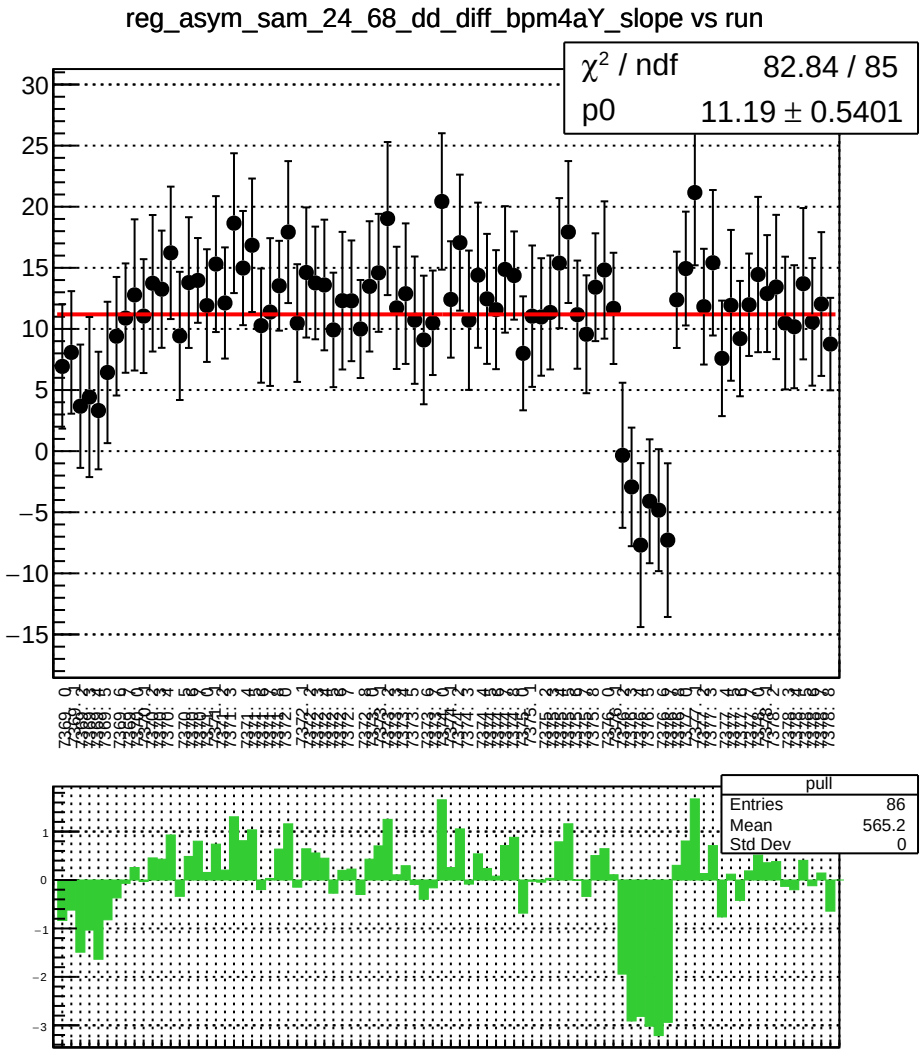

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.87 / 85
p0 27.31 ± 0.1903
pull
Entries 86
Mean 94.72
Std Dev 0
pull1D
Entries 86
Mean 0.01971
Std Dev 0.9874

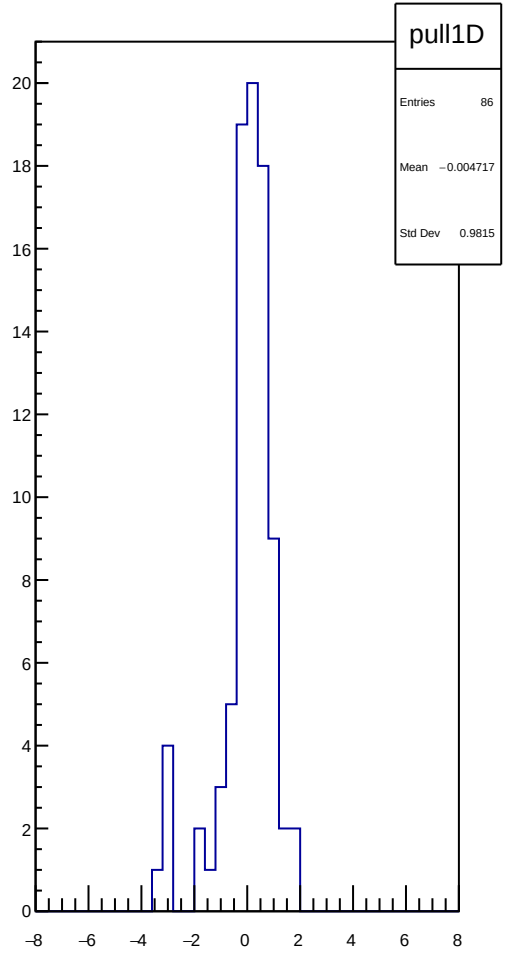

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 13.57 / 85
p0 −0.1133 ± 0.008562
pull
Entries 86
Mean −17.46
Std Dev 0

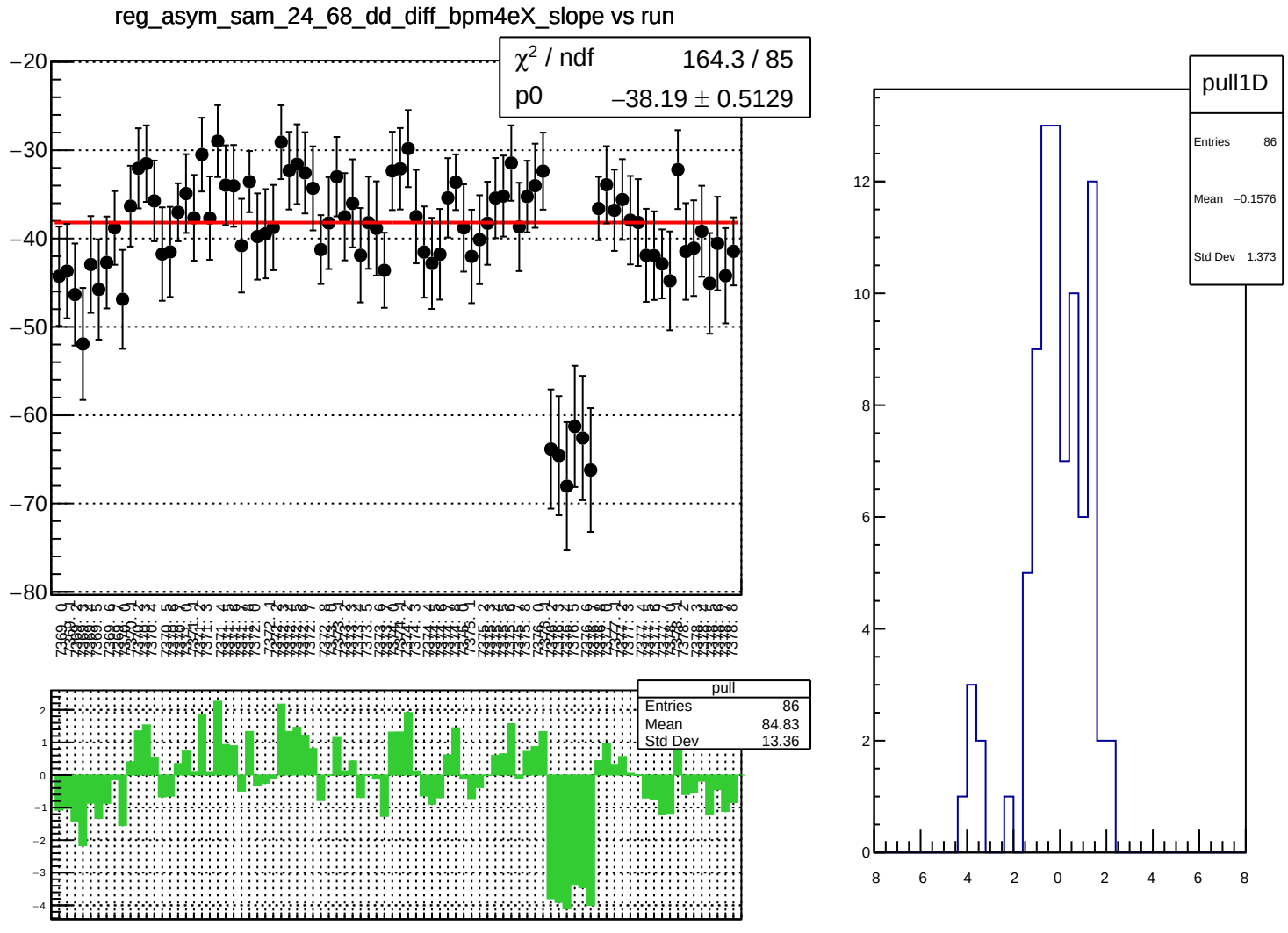

pull1D
Entries 86
Mean −0.01016
Std Dev 0.3971

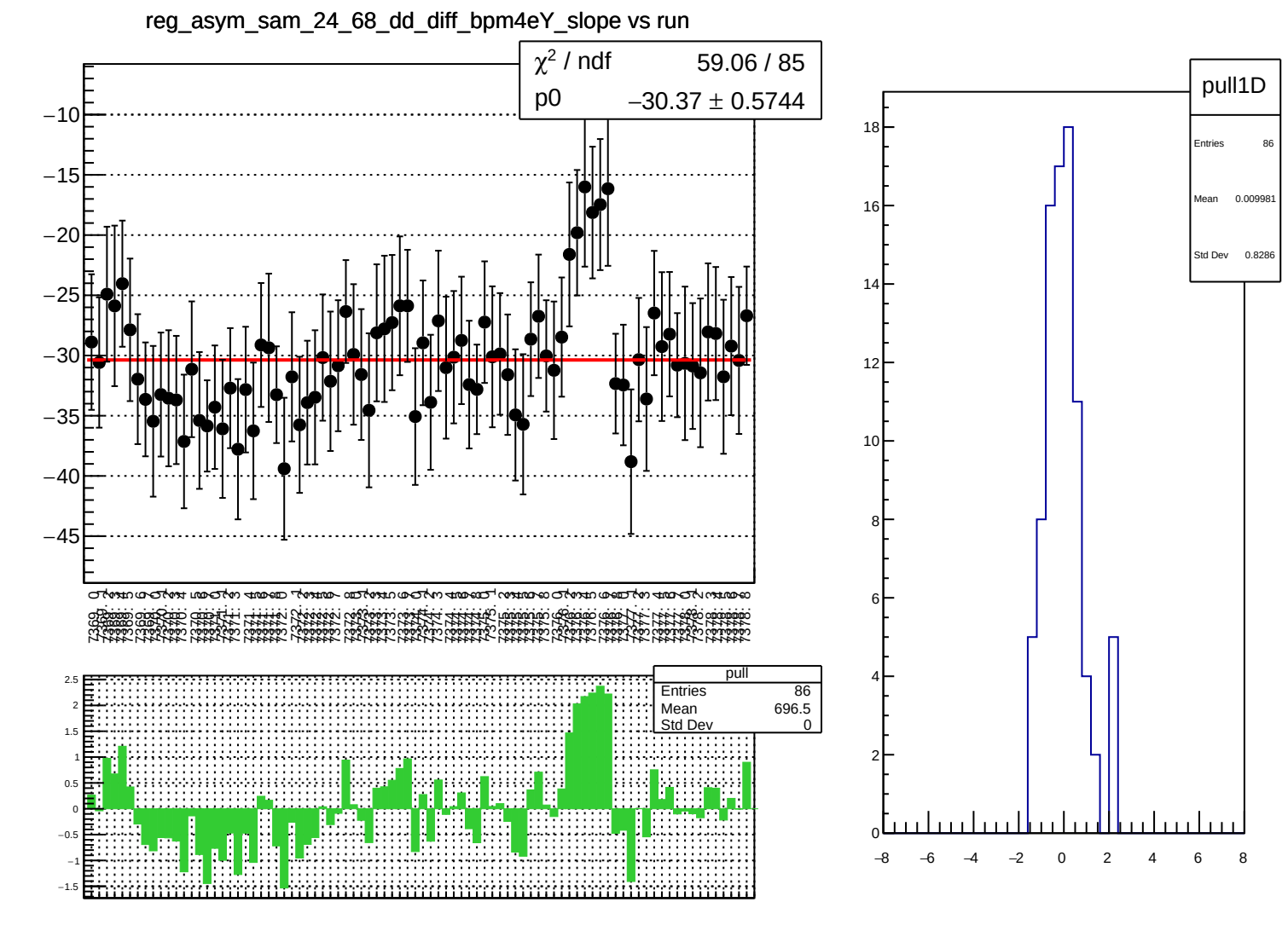

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 220 / 85
p0 −58.24 ± 0.4943
pull
Entries 86
Mean 59.1
Std Dev 45.88

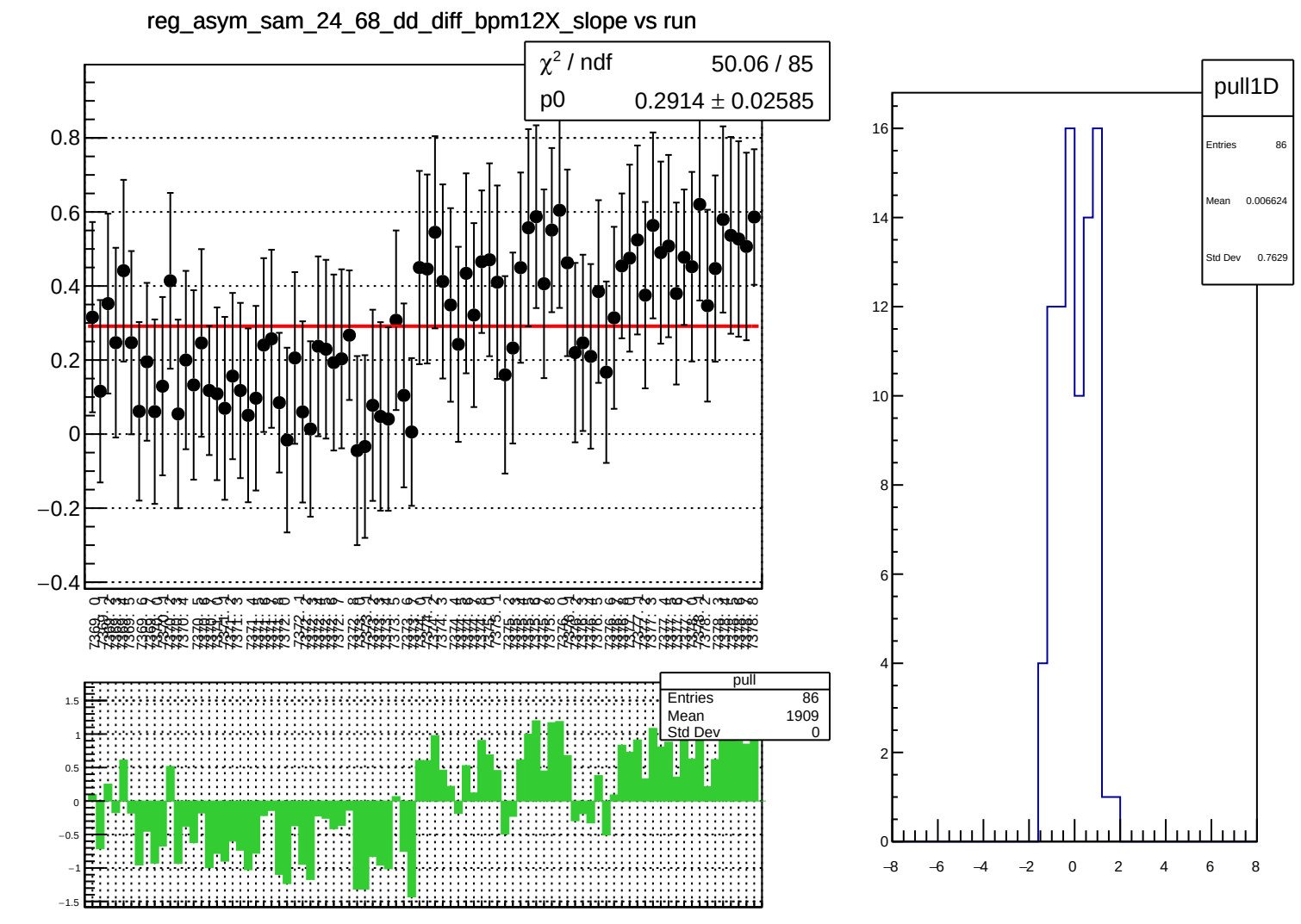

pull1D
Entries 86
Mean 0.1734
Std Dev 1.59

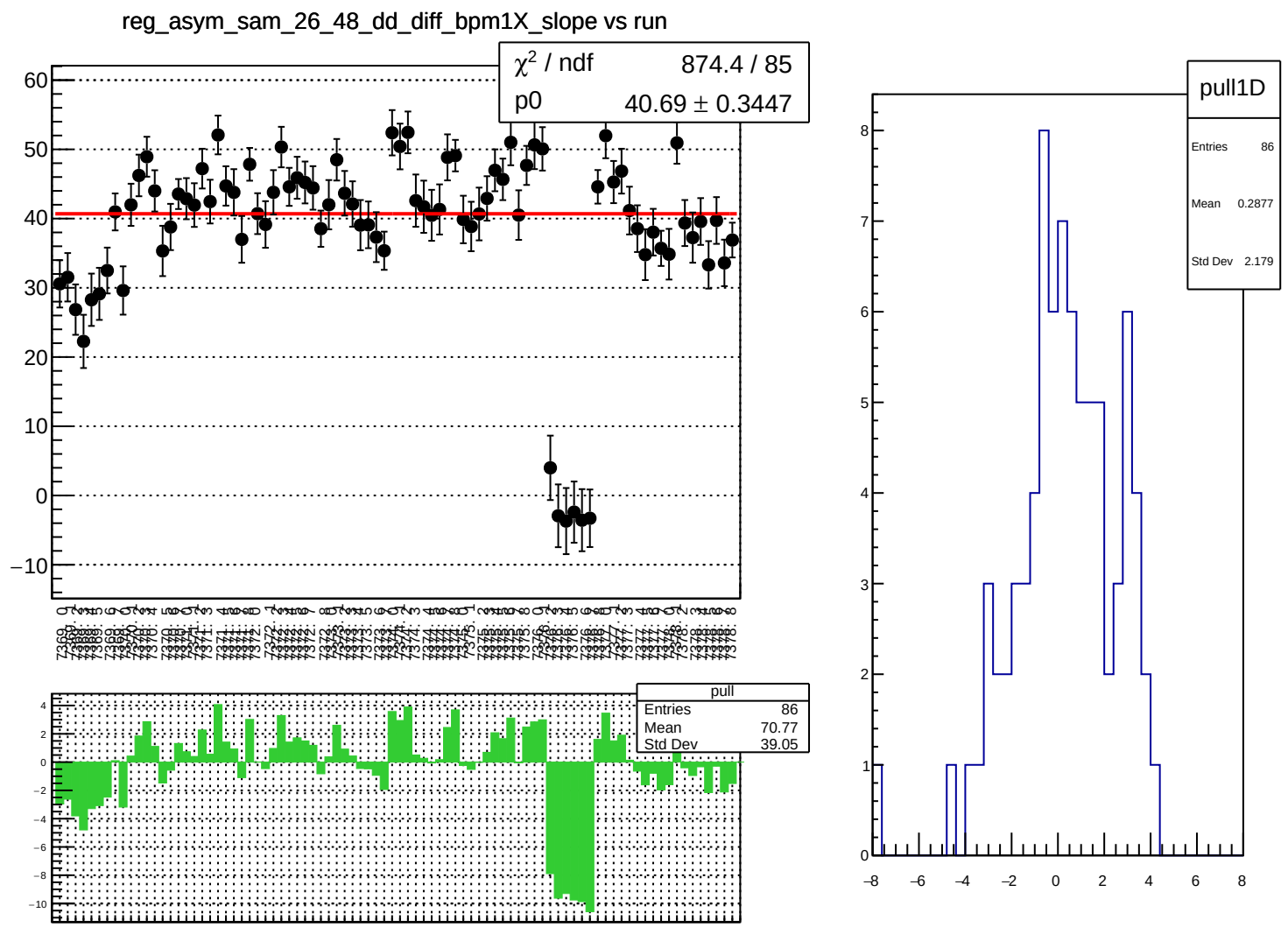

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.84 / 85
p0 11.19 ± 0.5401
pull
Entries 86
Mean 565.2
Std Dev 0

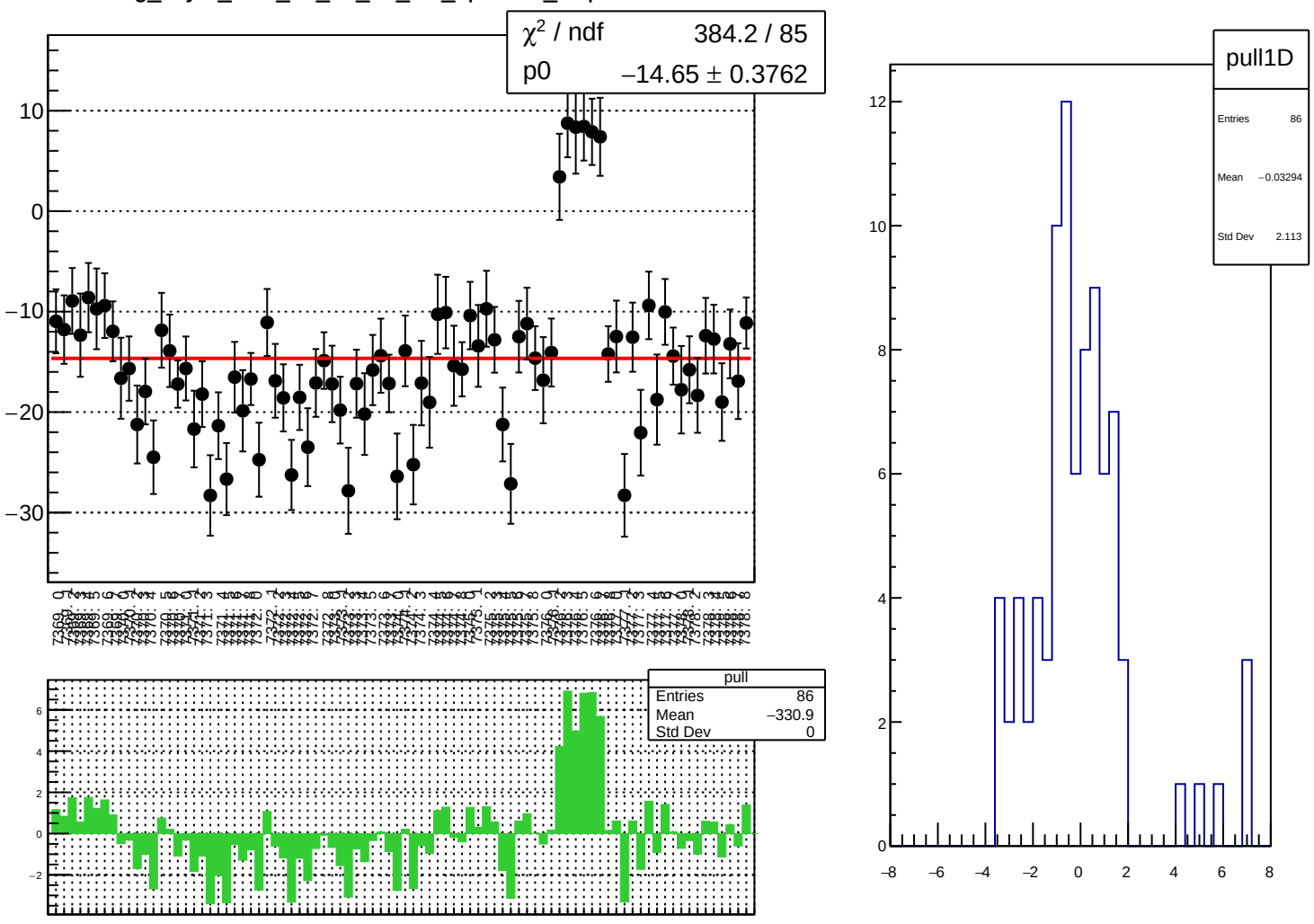

pull1D
Entries 86
Mean −0.004717
Std Dev 0.9815

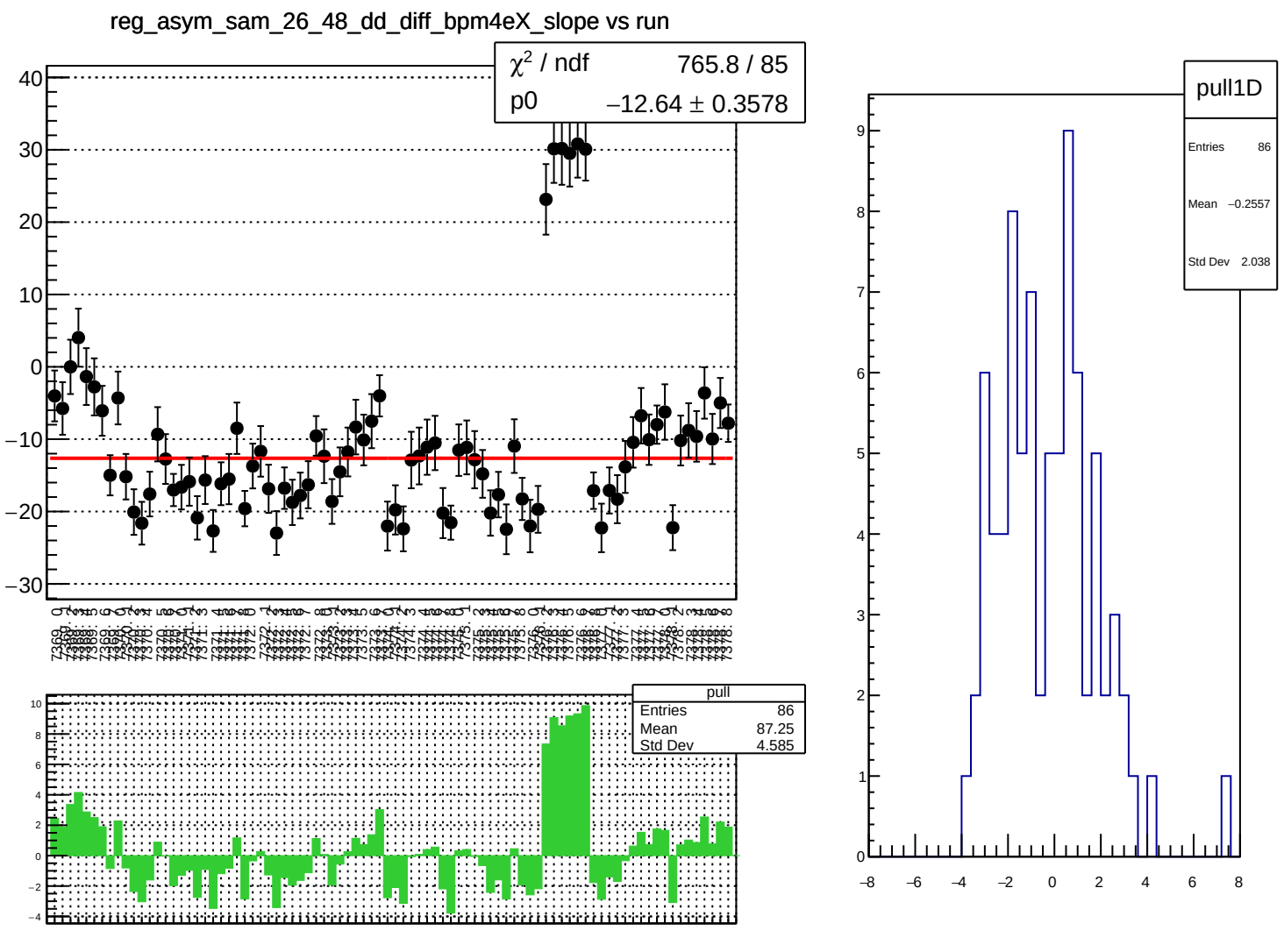

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 164.3 / 85
p0 −38.19 ± 0.5129
pull
Entries 86
Mean 84.83
Std Dev 13.36
pull1D
Entries 86
Mean −0.1576
Std Dev 1.373

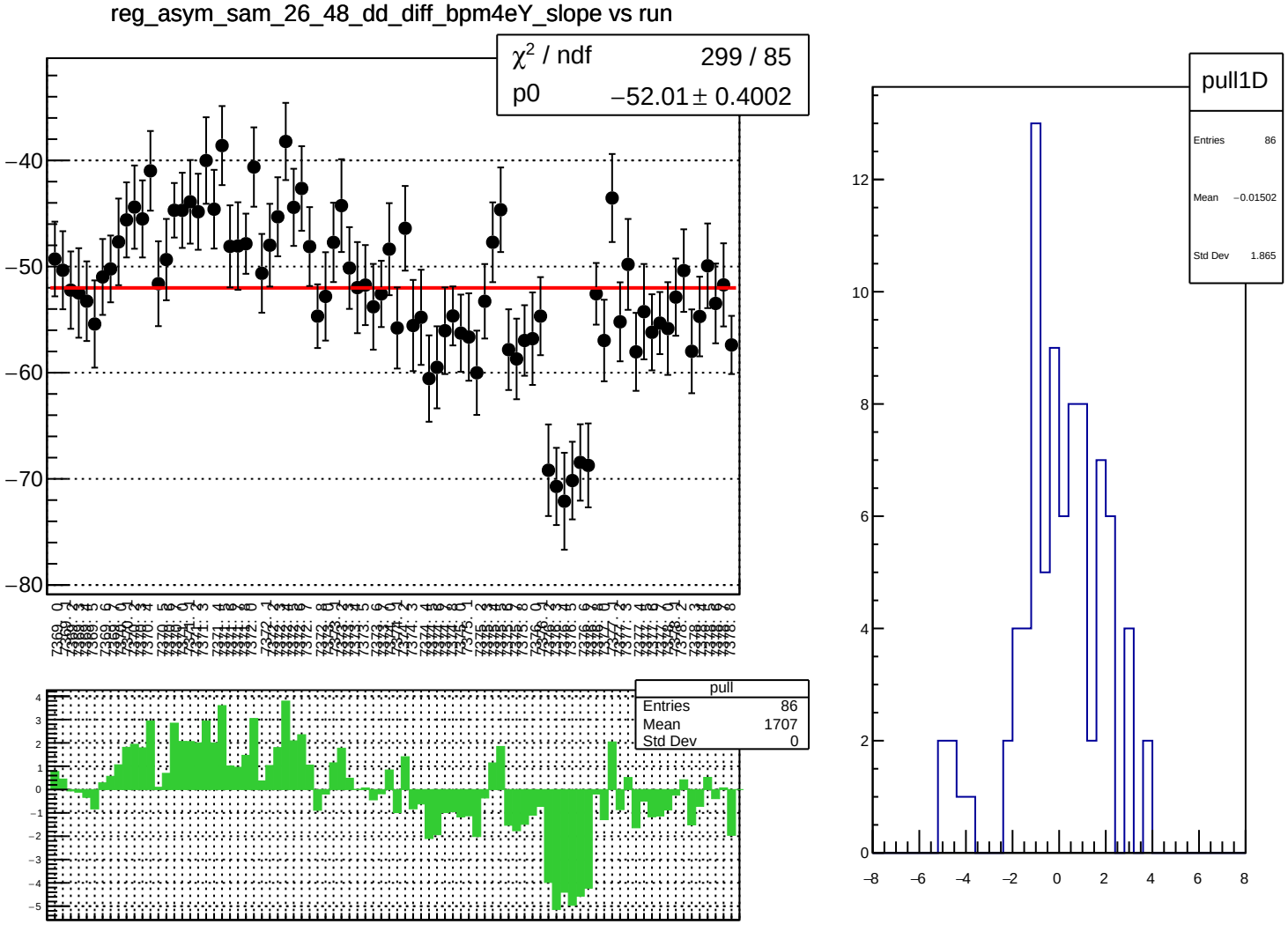

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.06 / 85
p0 −30.37 ± 0.5744
pull
Entries 86
Mean 696.5
Std Dev 0
pull1D
Entries 86
Mean 0.009981
Std Dev 0.8286

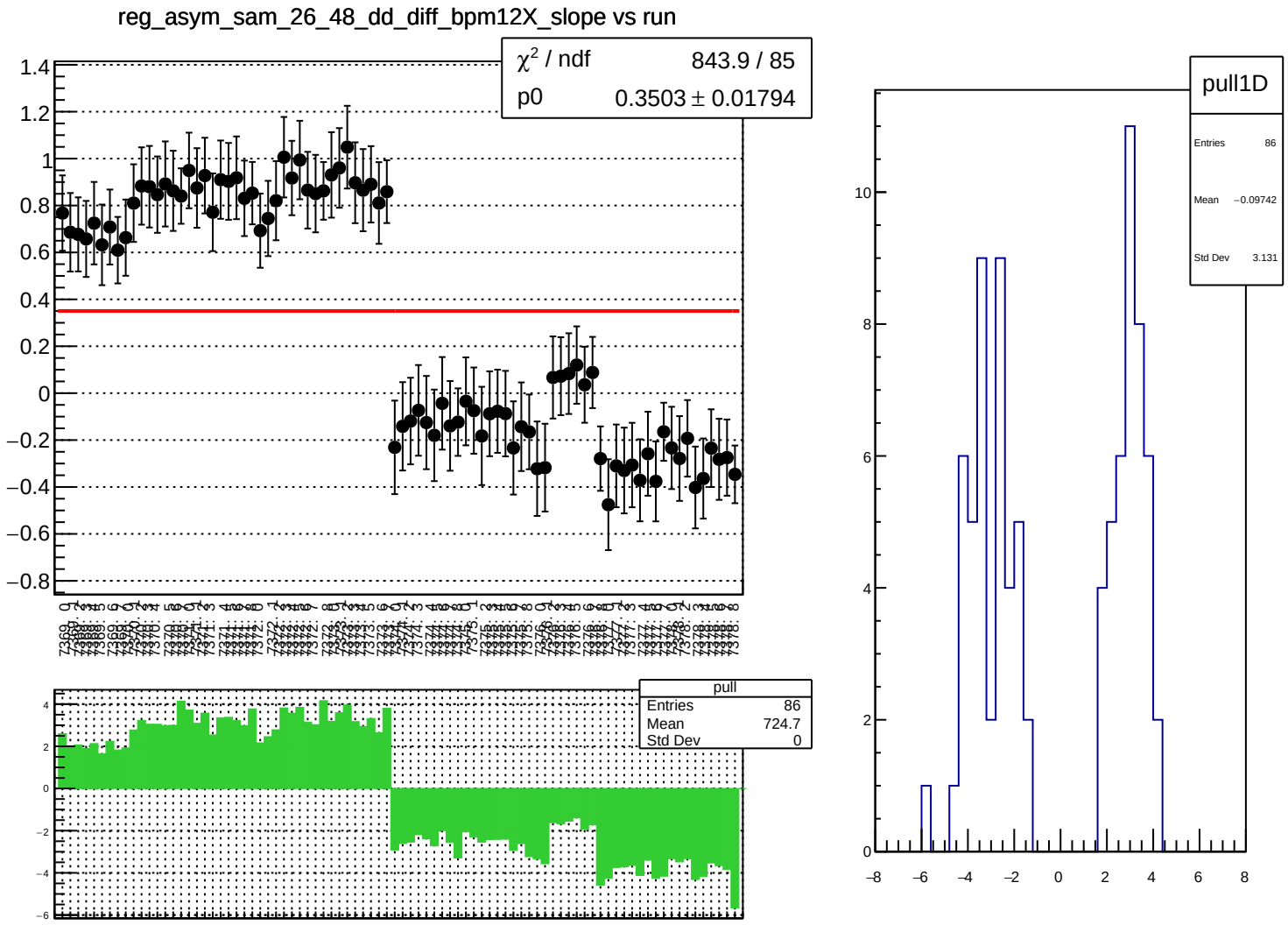

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 50.06 / 85
p0 0.2914 ± 0.02585
pull
Entries 86
Mean 1909
Std Dev 0
pull1D
Entries 86
Mean 0.006624
Std Dev 0.7629

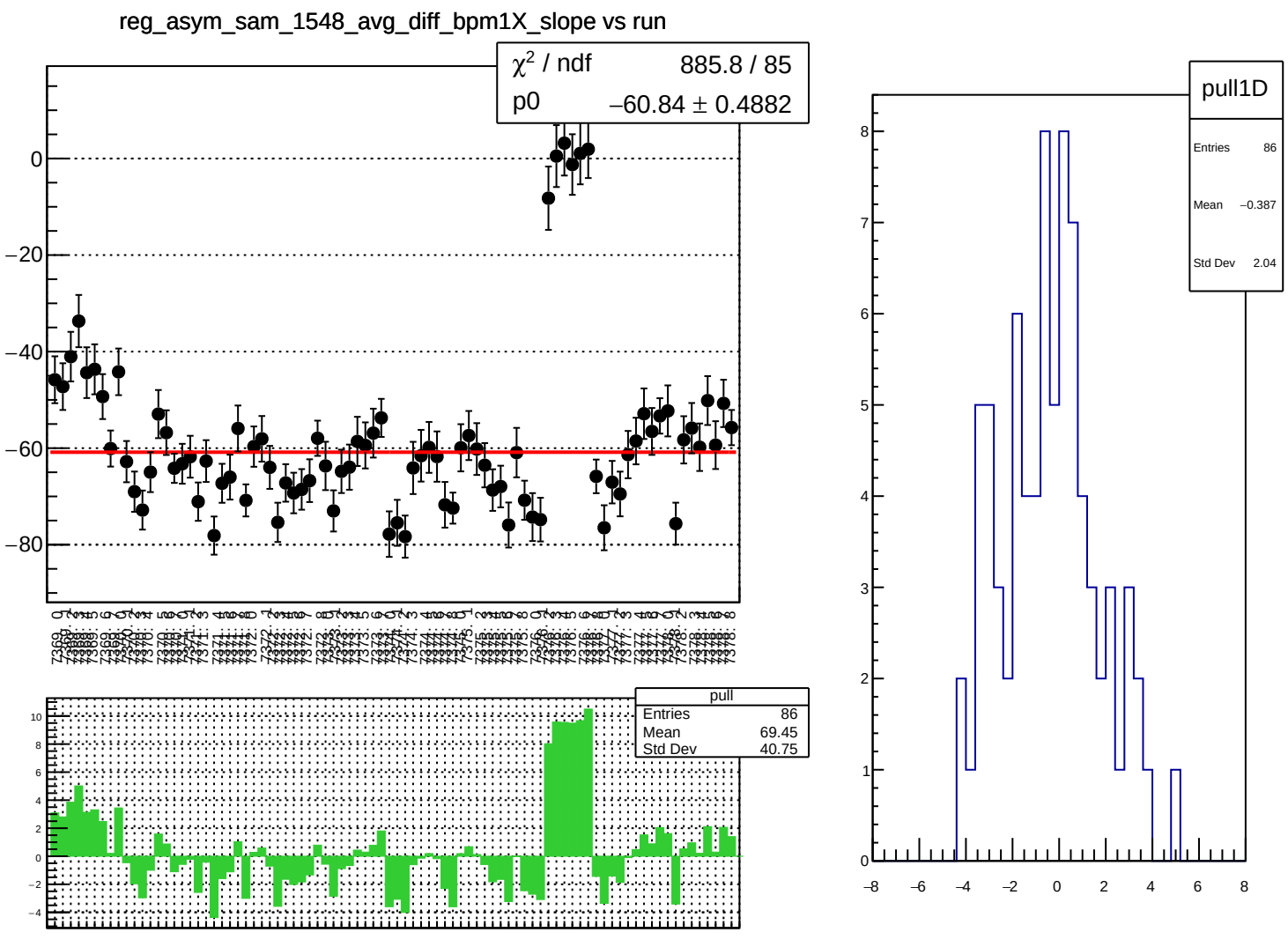

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 874.4 / 85
p0 40.69 ± 0.3447
pull
Entries 86
Mean 70.77
Std Dev 39.05
pull1D
Entries 86
Mean 0.2877
Std Dev 2.179

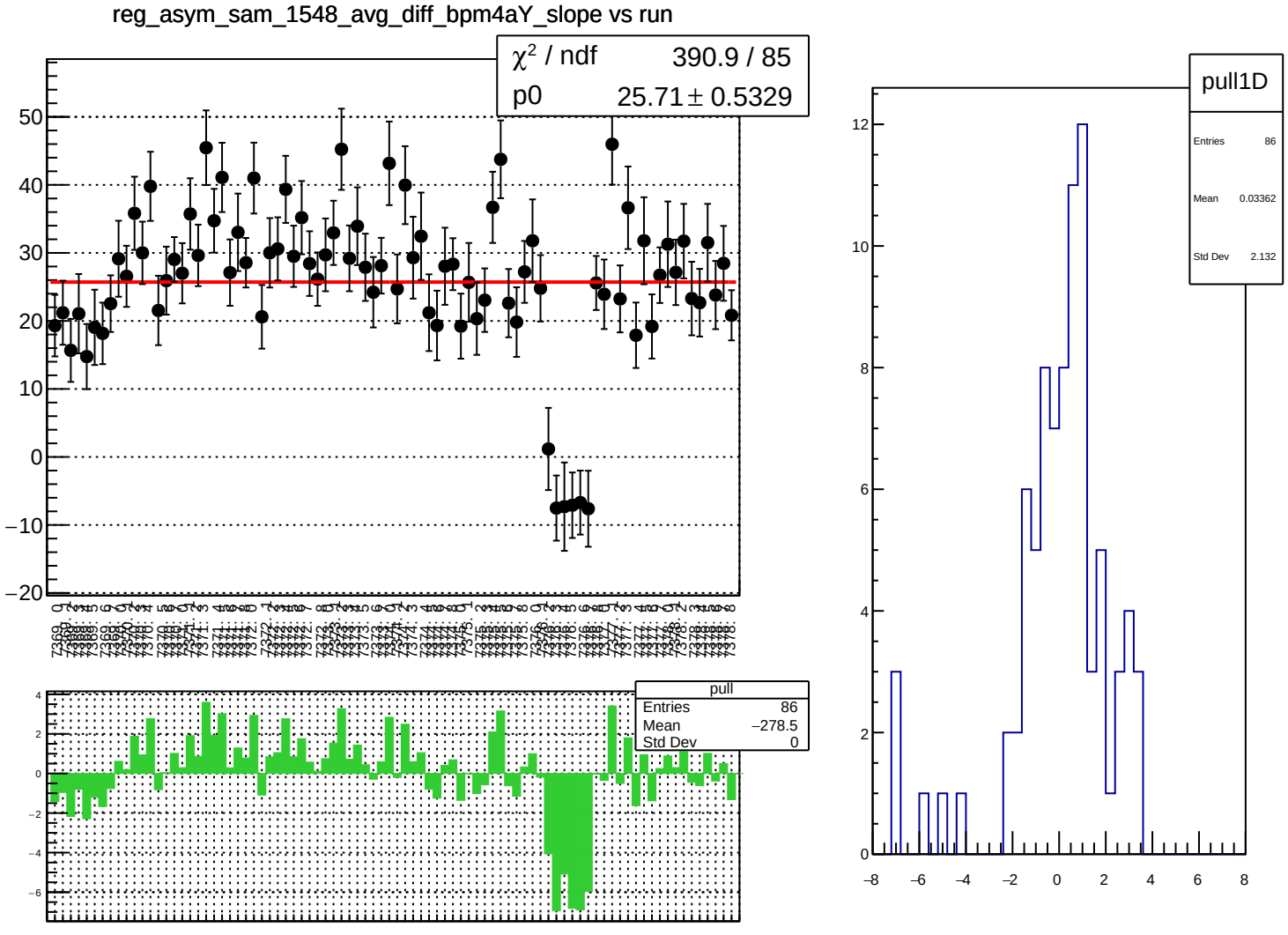

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 384.2 / 85
p0 −14.65 ± 0.3762
pull
Entries 86
Mean −330.9
Std Dev 0
pull1D
Entries 86
Mean −0.03294
Std Dev 2.113

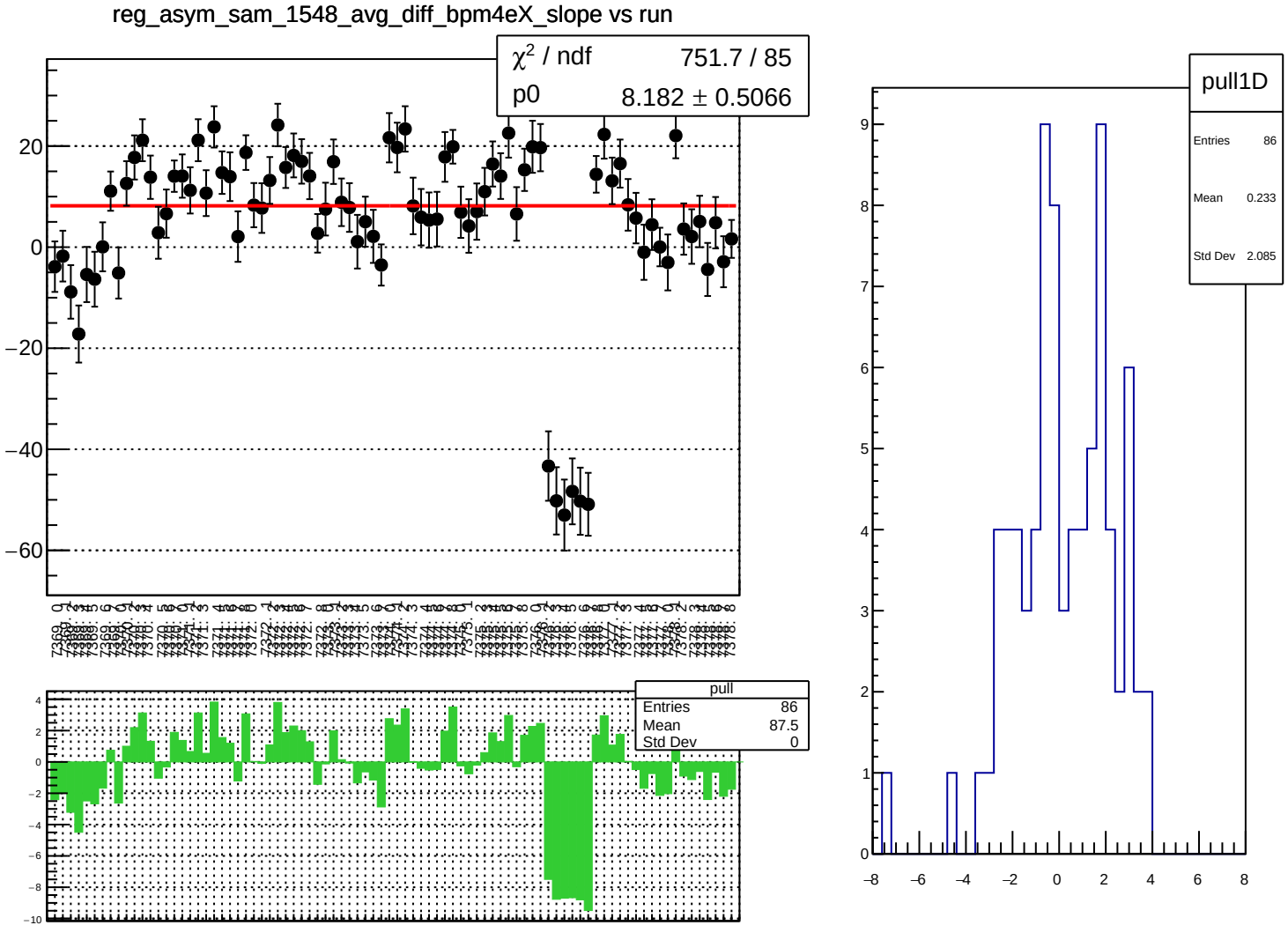

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 765.8 / 85
p0 −12.64 ± 0.3578
pull
Entries 86
Mean 87.25
Std Dev 4.585
pull1D
Entries 86
Mean −0.2557
Std Dev 2.038

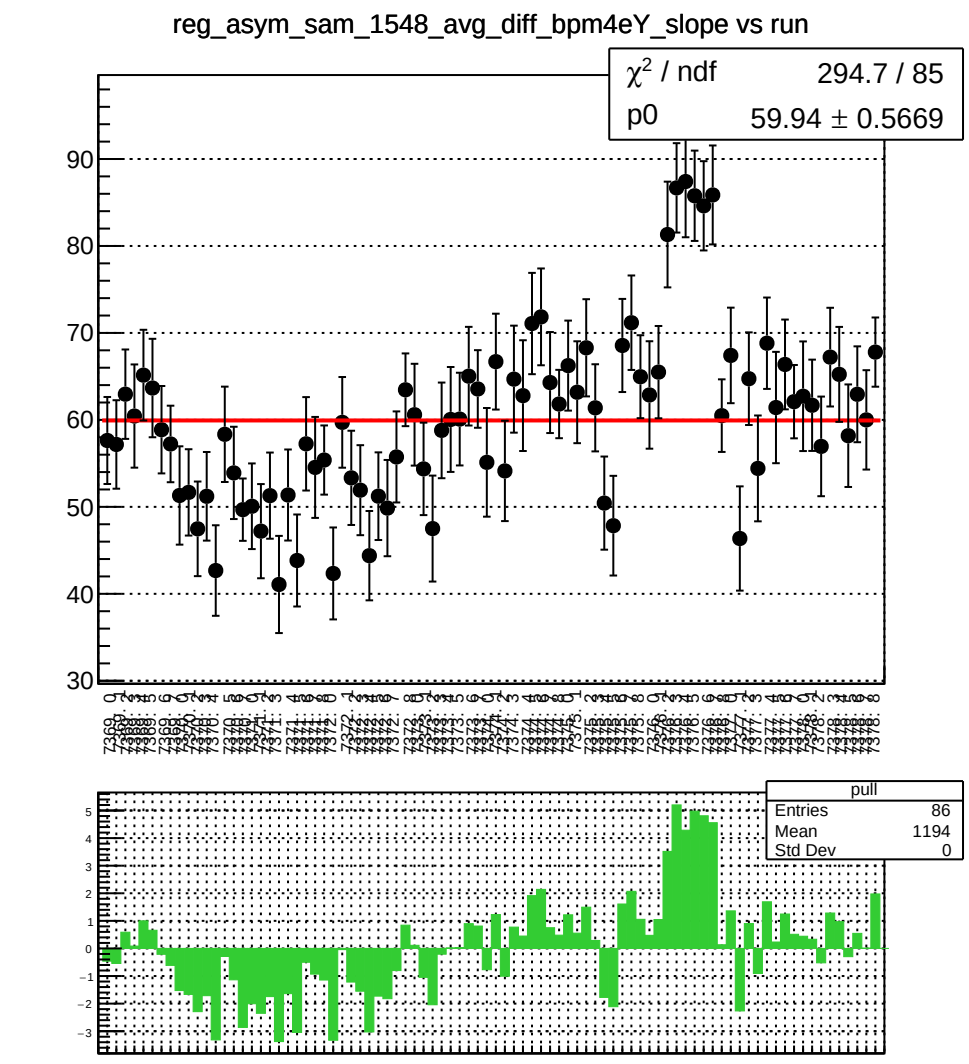

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 299 / 85
p0 −52.01 ± 0.4002
pull
Entries 86
Mean 1707
Std Dev 0
pull1D
Entries 86
Mean −0.01502
Std Dev 1.865

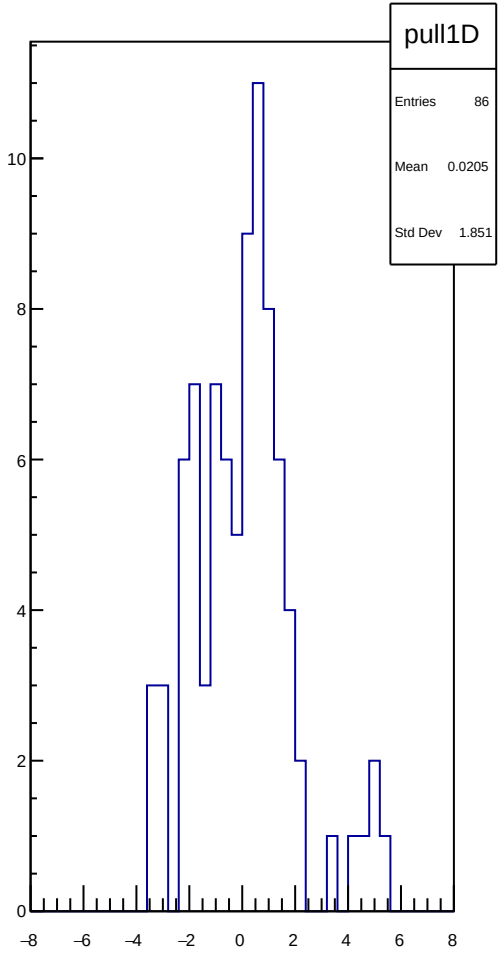

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 843.9 / 85
p0 0.3503 ± 0.01794
pull
Entries 86
Mean 724.7
Std Dev 0
pull1D
Entries 86
Mean −0.09742
Std Dev 3.131

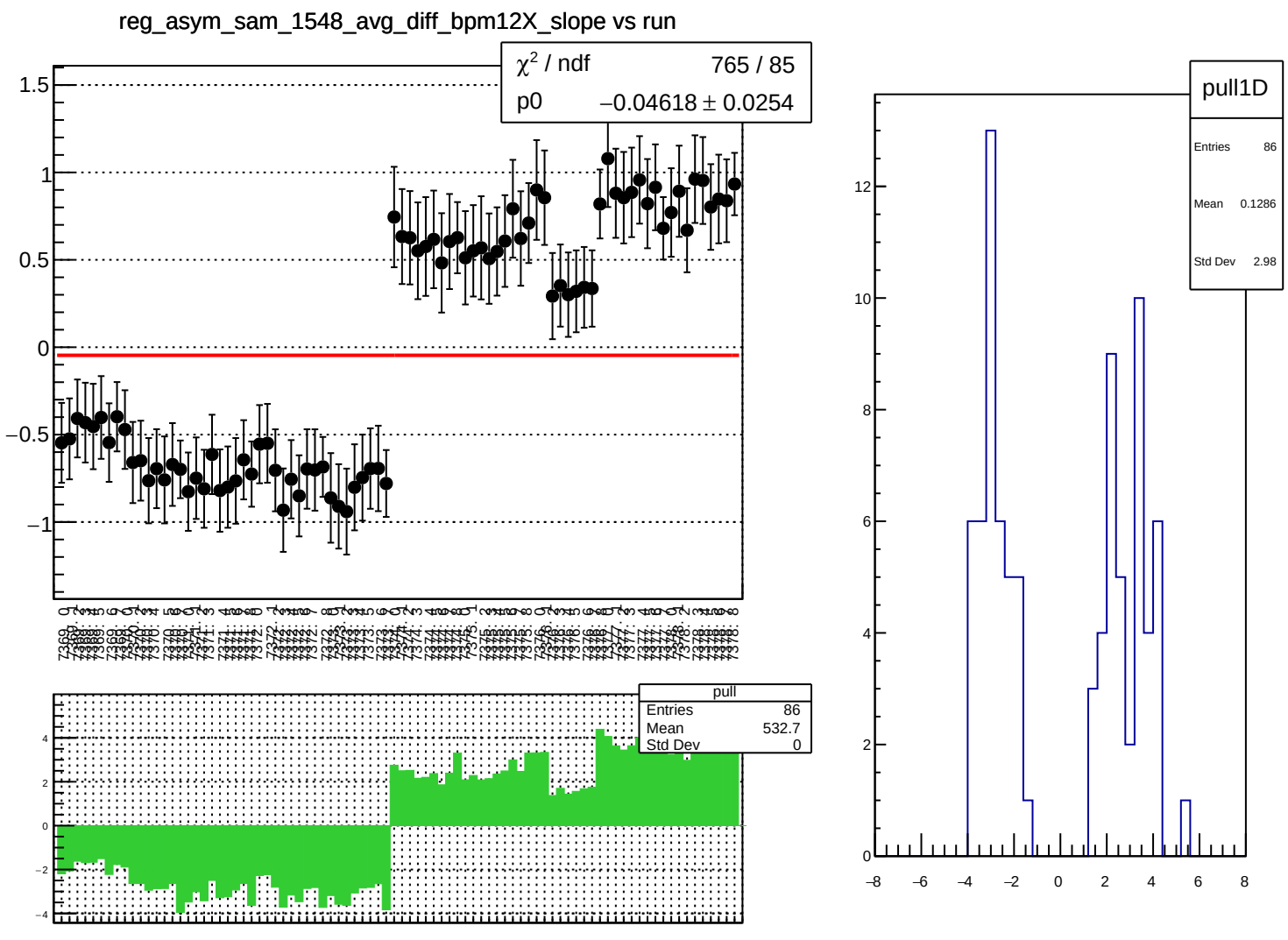

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 885.8 / 85
p0 −60.84 ± 0.4882
pull
Entries 86
Mean 69.45
Std Dev 40.75
pull1D
Entries 86
Mean −0.387
Std Dev 2.04

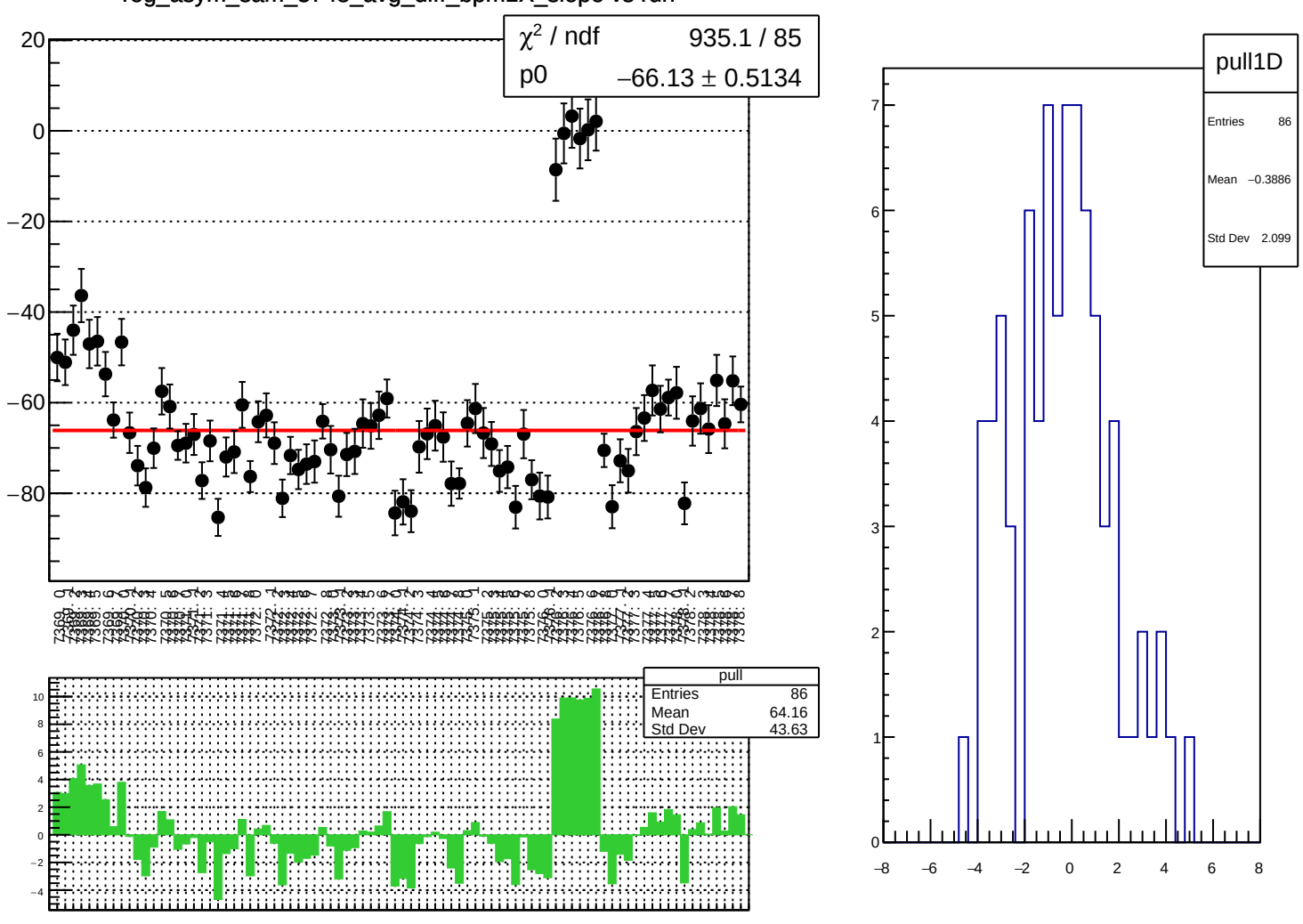

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 390.9 / 85
p0 25.71 ± 0.5329
pull
Entries 86
Mean −278.5
Std Dev 0
pull1D
Entries 86
Mean 0.03362
Std Dev 2.132

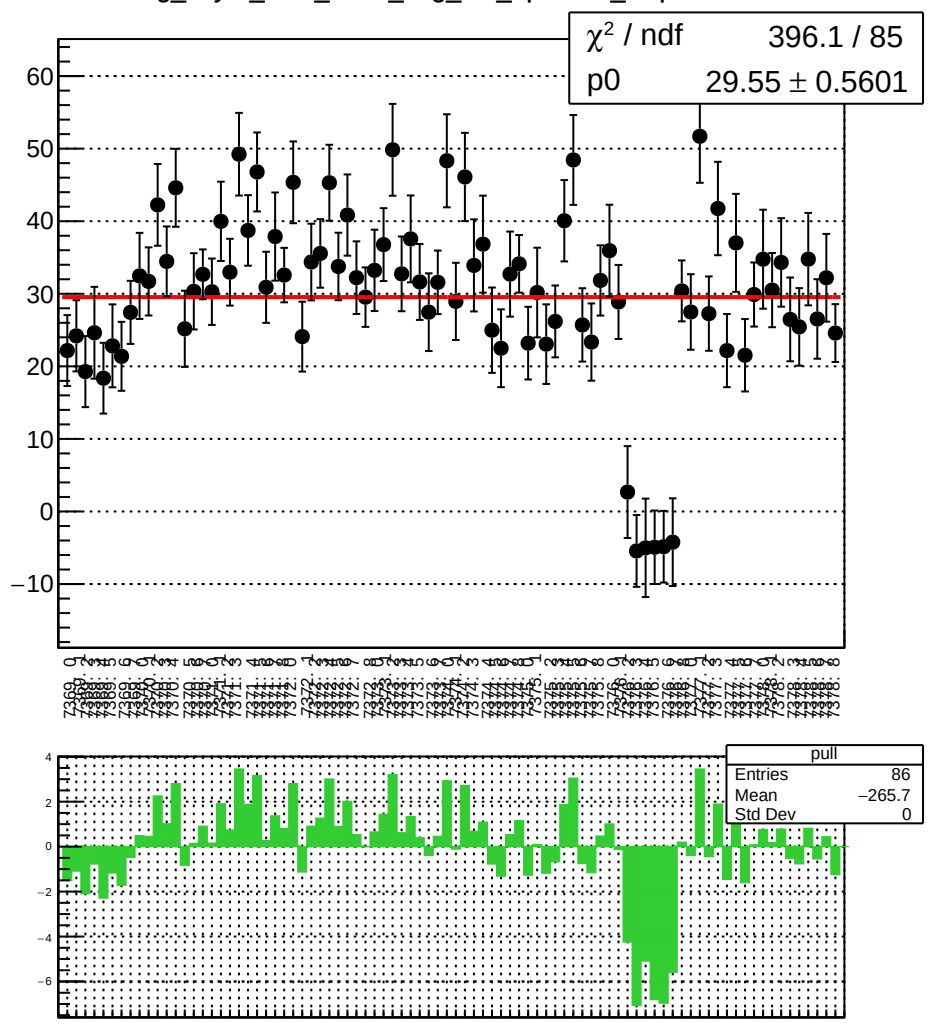

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 751.7 / 85
p0 8.182 ± 0.5066
20
0
−20
−40
−60
pull
Entries 86
Mean 87.5
Std Dev 0
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 86
Mean 0.233
Std Dev 2.085
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

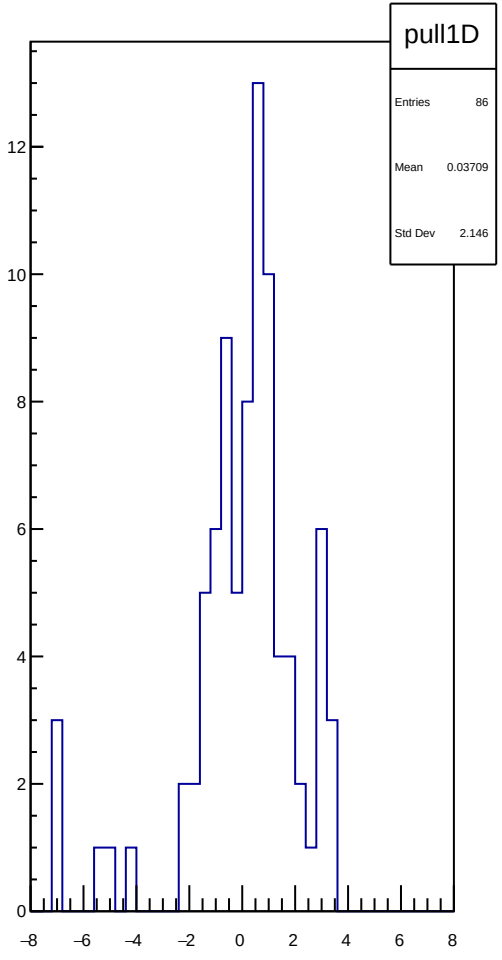

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 294.7 / 85
p0 59.94 ± 0.5669
pull
Entries 86
Mean 1194
Std Dev 0

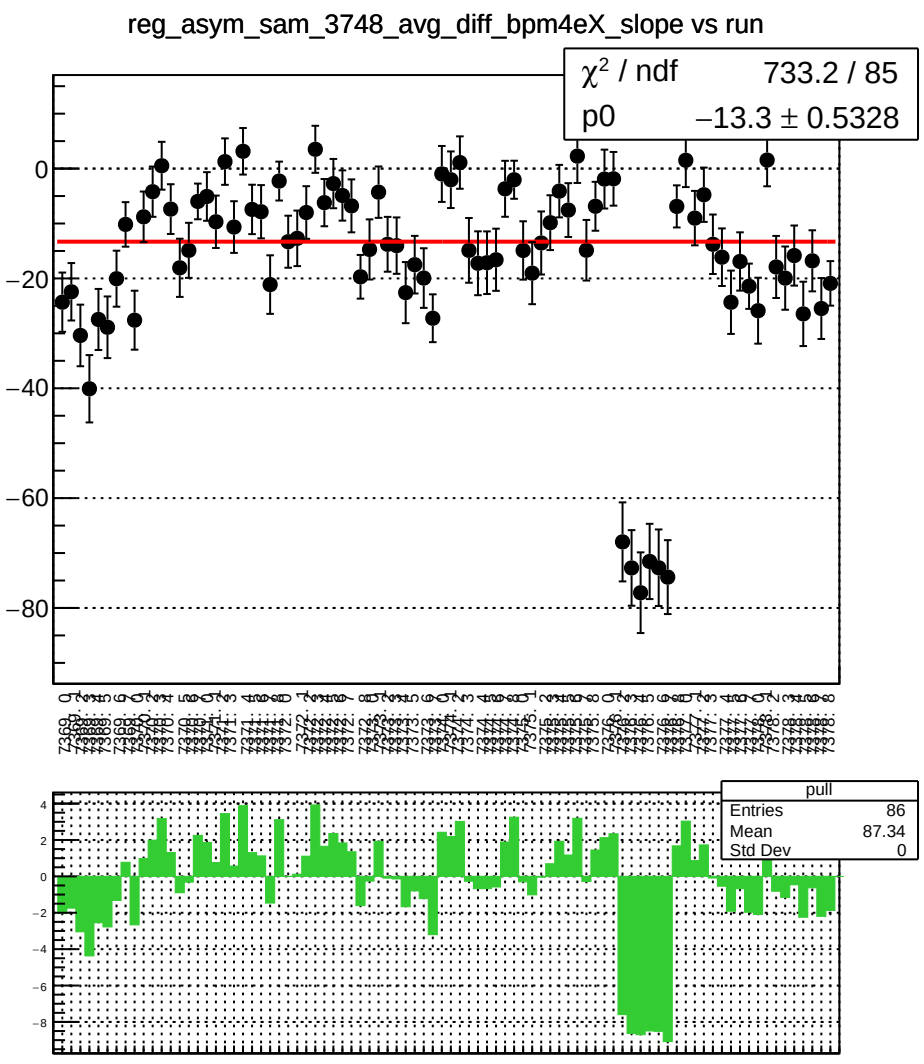

pull1D
Entries 86
Mean 0.0205
Std Dev 1.851

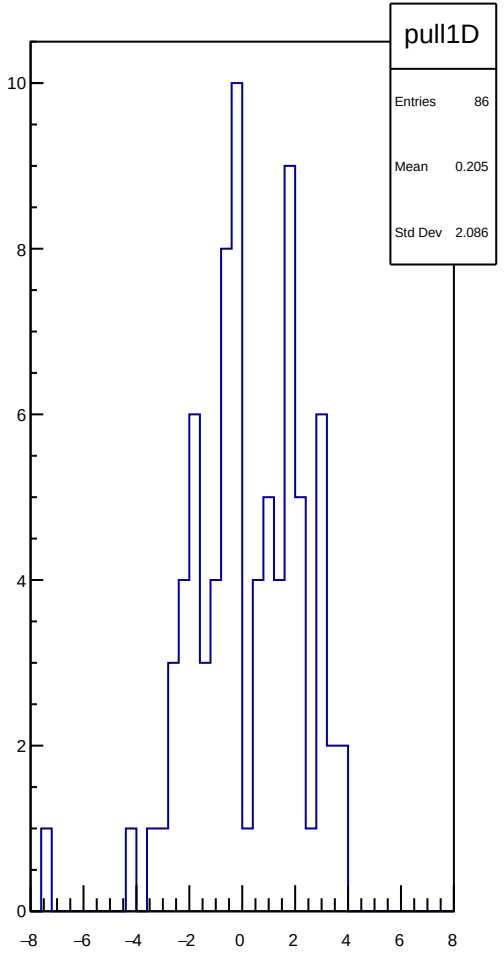

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 765 / 85
p0 −0.04618 ± 0.0254
pull
Entries 86
Mean 532.7
Std Dev 0
pull1D
Entries 86
Mean 0.1286
Std Dev 2.98

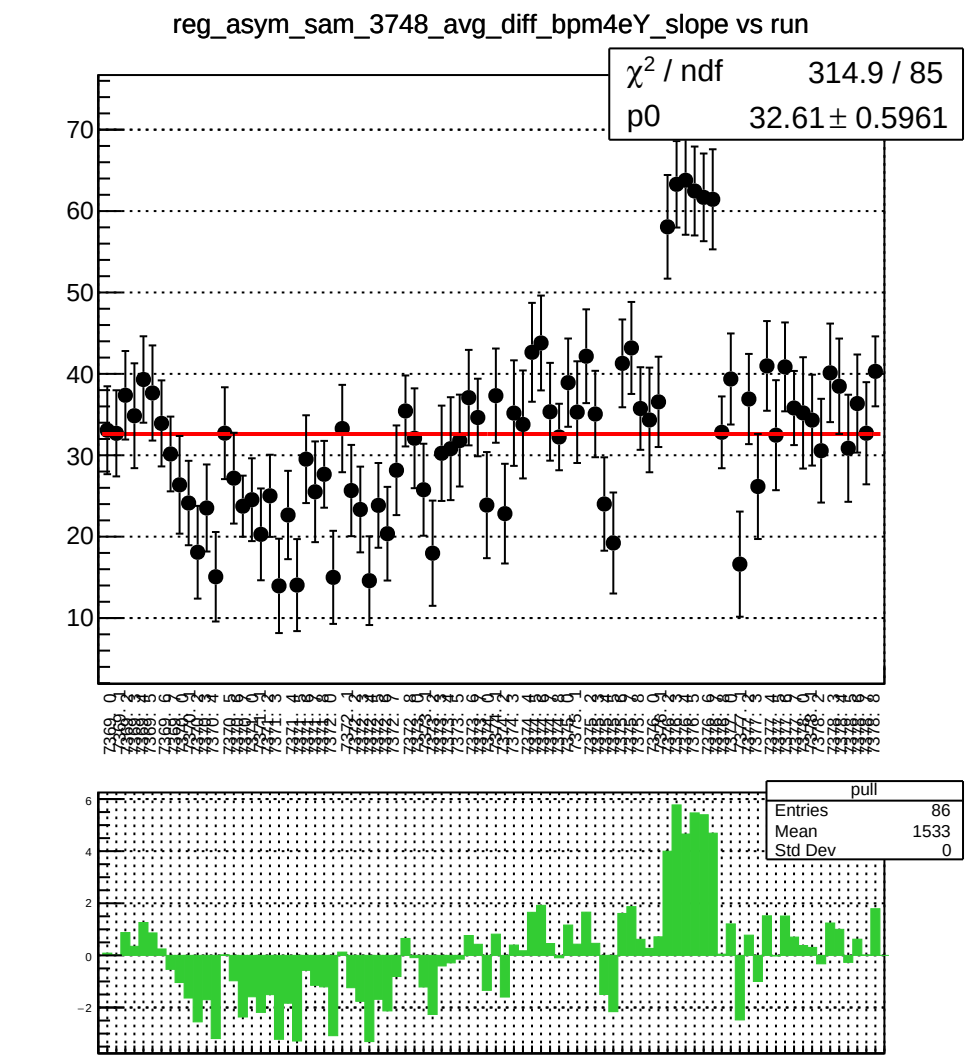

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 935.1 / 85
p0 −66.13 ± 0.5134
pull
Entries 86
Mean 64.16
Std Dev 43.63
pull1D
Entries 86
Mean −0.3886
Std Dev 2.099

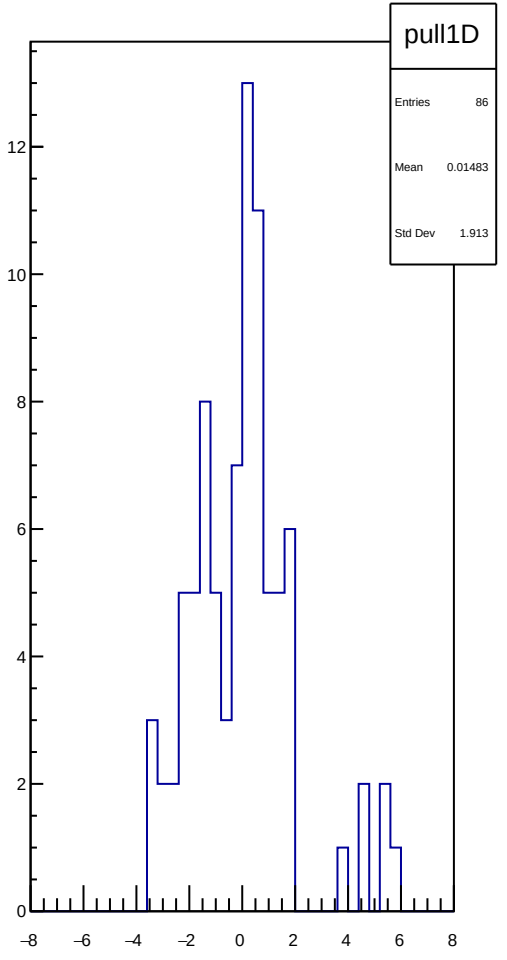

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 396.1 / 85
p0 29.55 ± 0.5601
pull
Entries 86
Mean −265.7
Std Dev 0

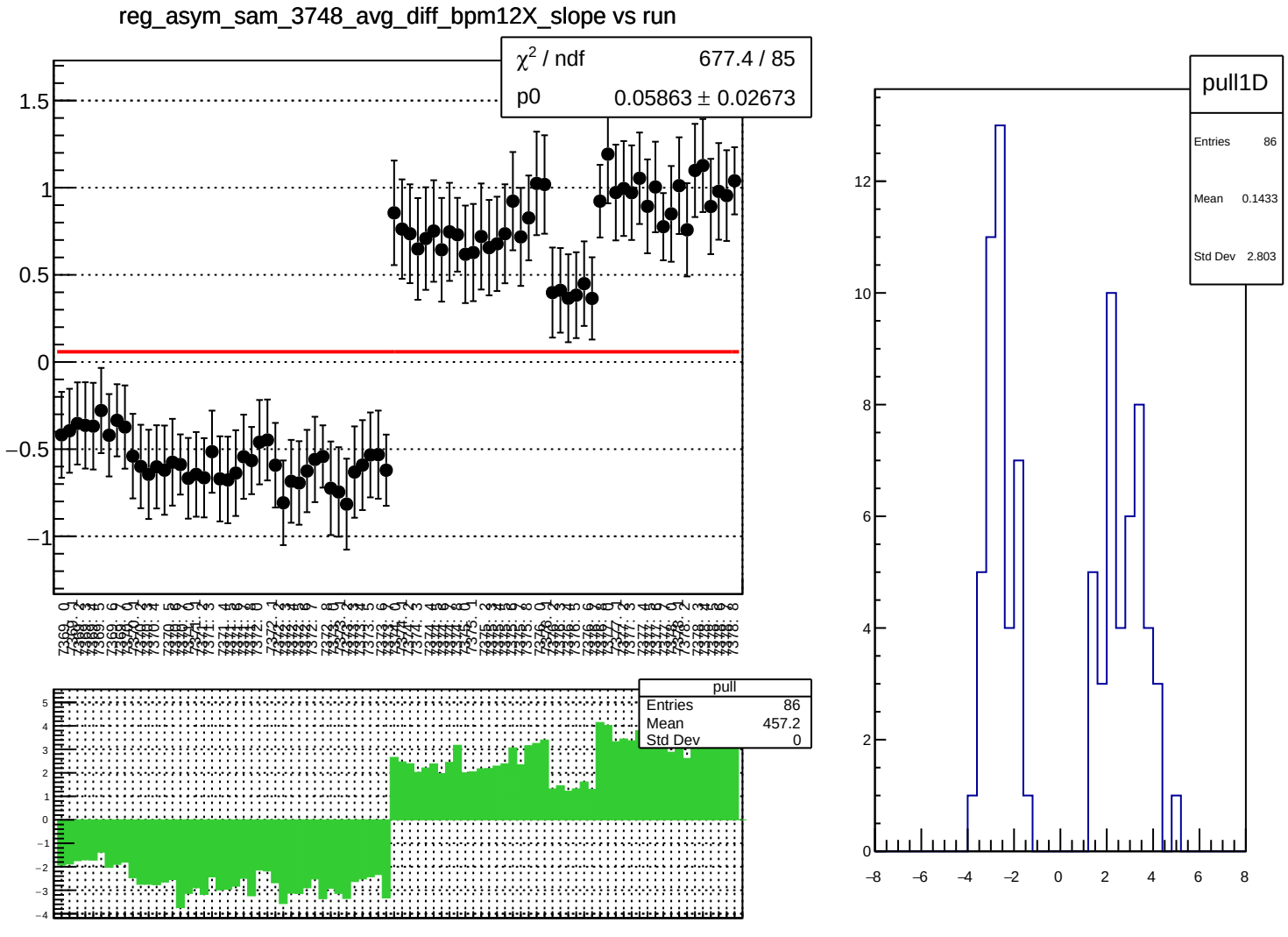

pull1D
Entries 86
Mean 0.03709
Std Dev 2.146

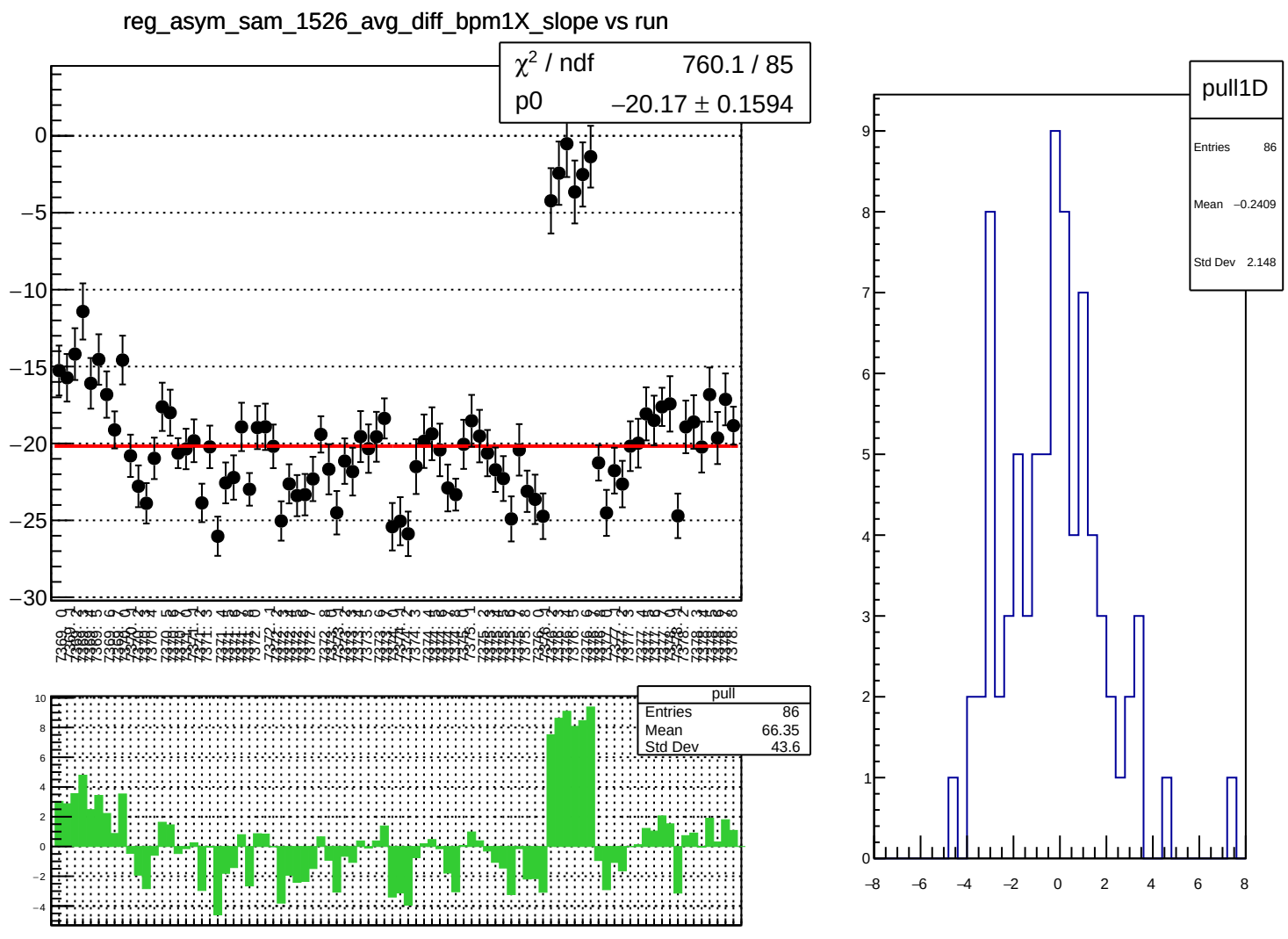

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 733.2 / 85
p0 −13.3 ± 0.5328
pull
Entries 86
Mean 87.34
Std Dev 0

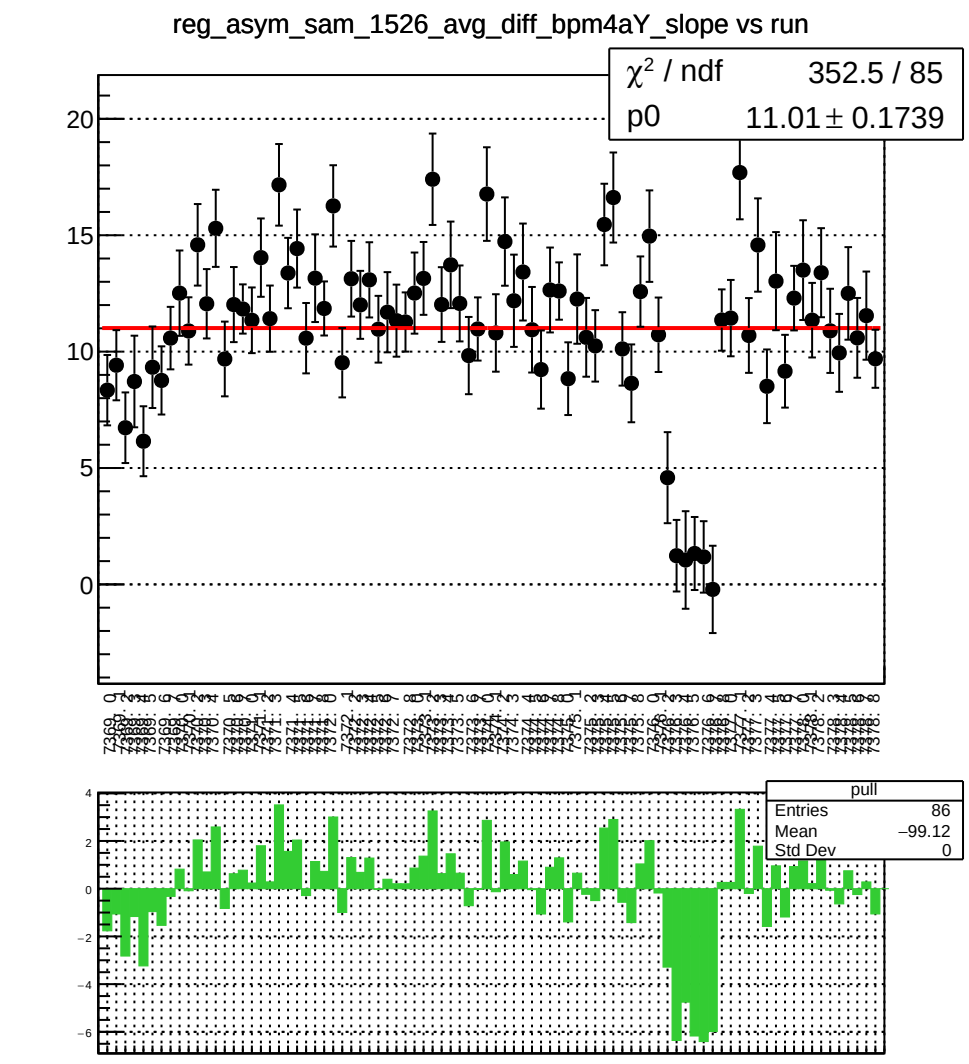

pull1D
Entries 86
Mean 0.205
Std Dev 2.086

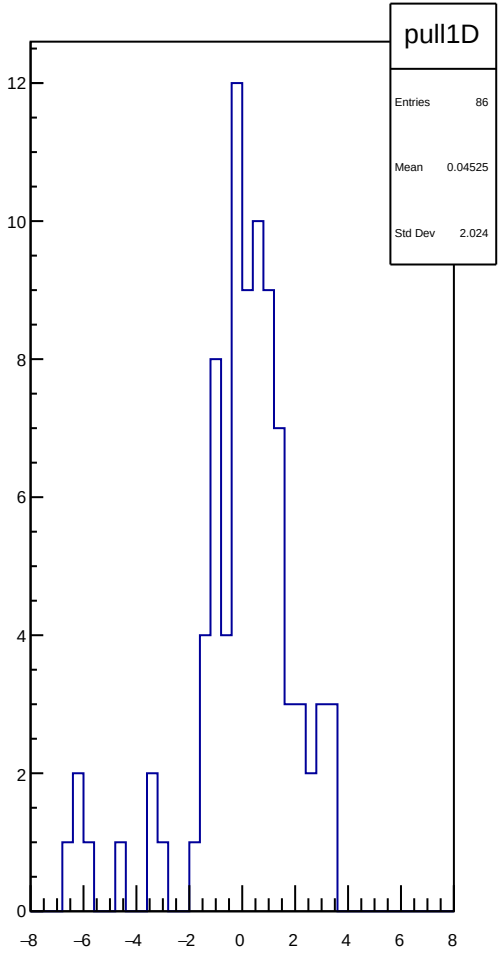

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 314.9 / 85
p0 32.61 ± 0.5961
pull
Entries 86
Mean 1533
Std Dev 0

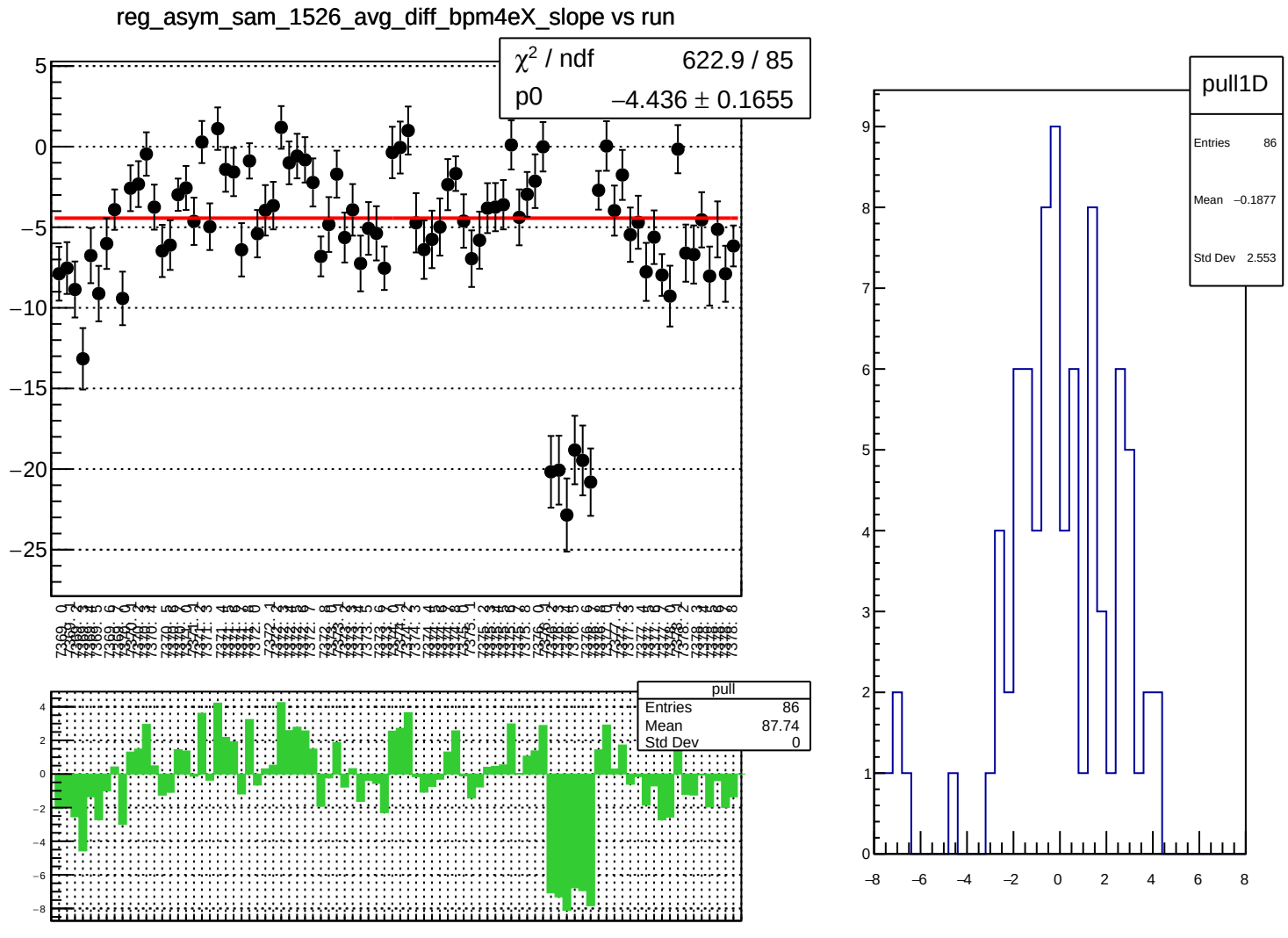

pull1D
Entries 86
Mean 0.01483
Std Dev 1.913

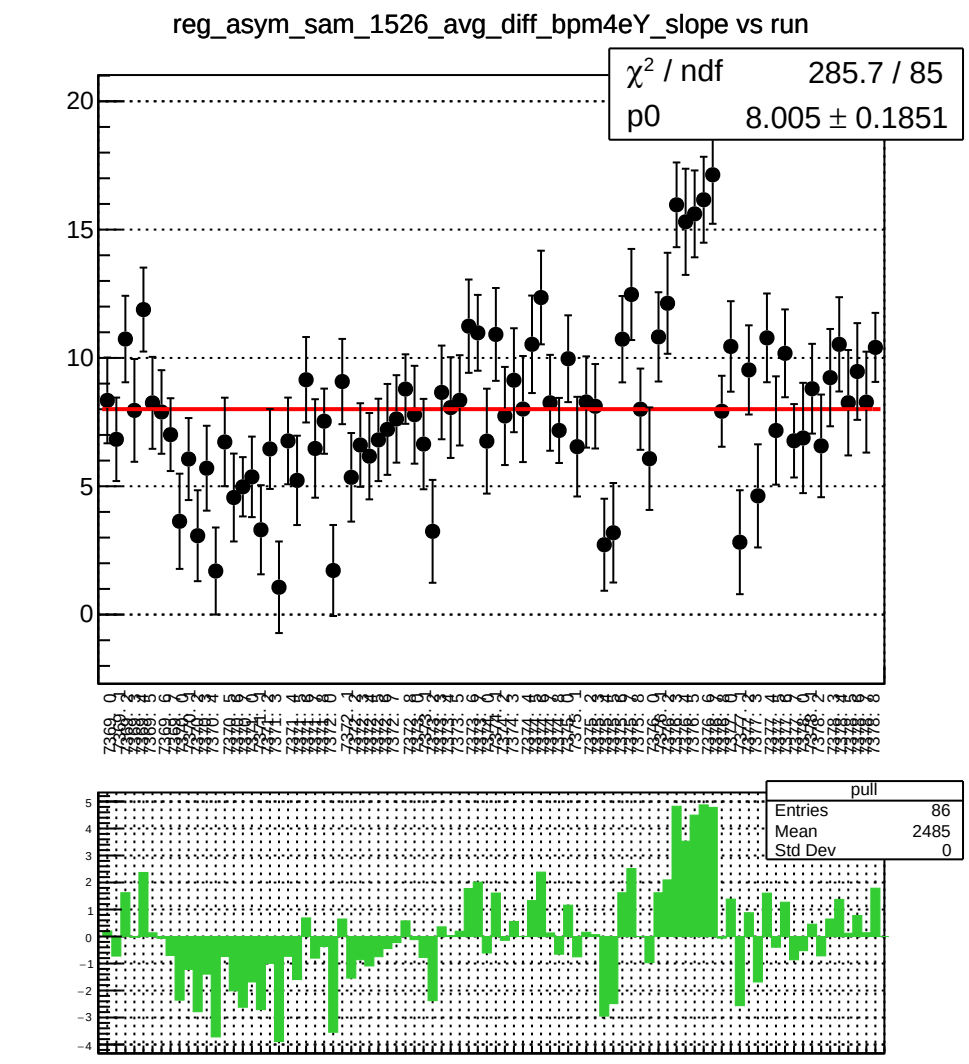

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 677.4 / 85
p0 0.05863 ± 0.02673
pull
Entries 86
Mean 457.2
Std Dev 0
pull1D
Entries 86
Mean 0.1433
Std Dev 2.803

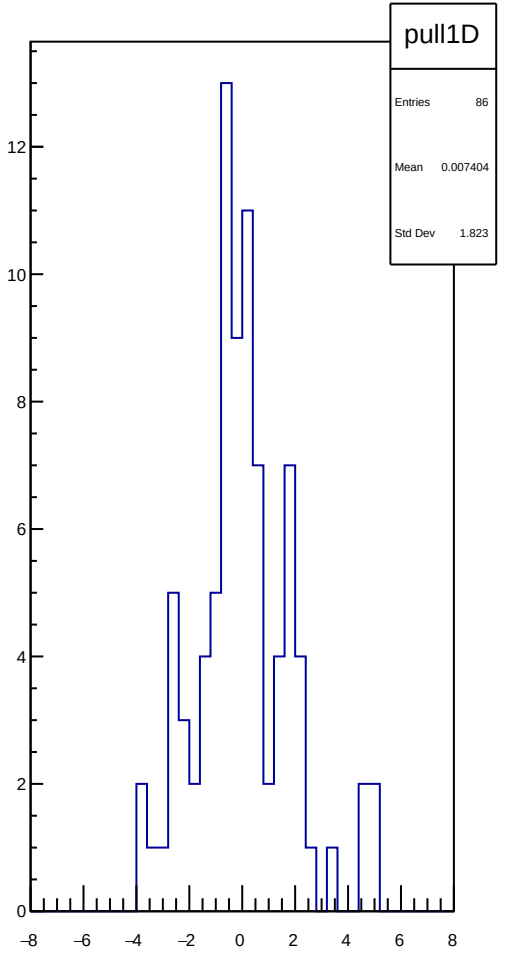

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 760.1 / 85
p0 −20.17 ± 0.1594
pull
Entries 86
Mean 66.35
Std Dev 43.6
pull1D
Entries 86
Mean −0.2409
Std Dev 2.148

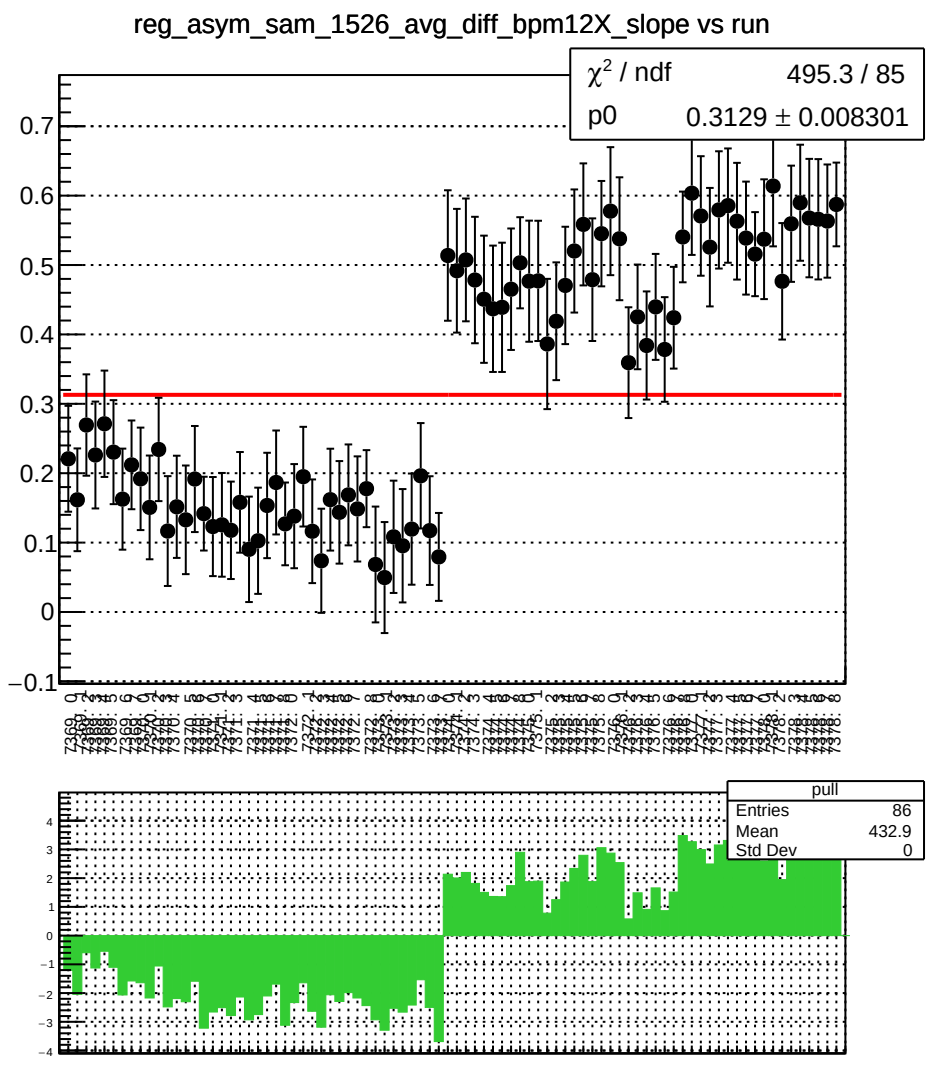

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 352.5 / 85
p0 11.01 ± 0.1739
pull
Entries 86
Mean −99.12
Std Dev 0

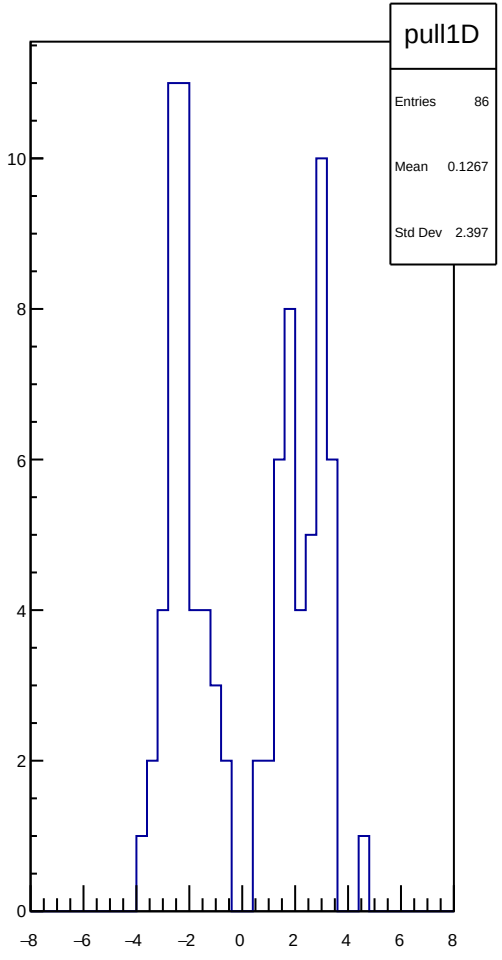

pull1D
Entries 86
Mean 0.04525
Std Dev 2.024

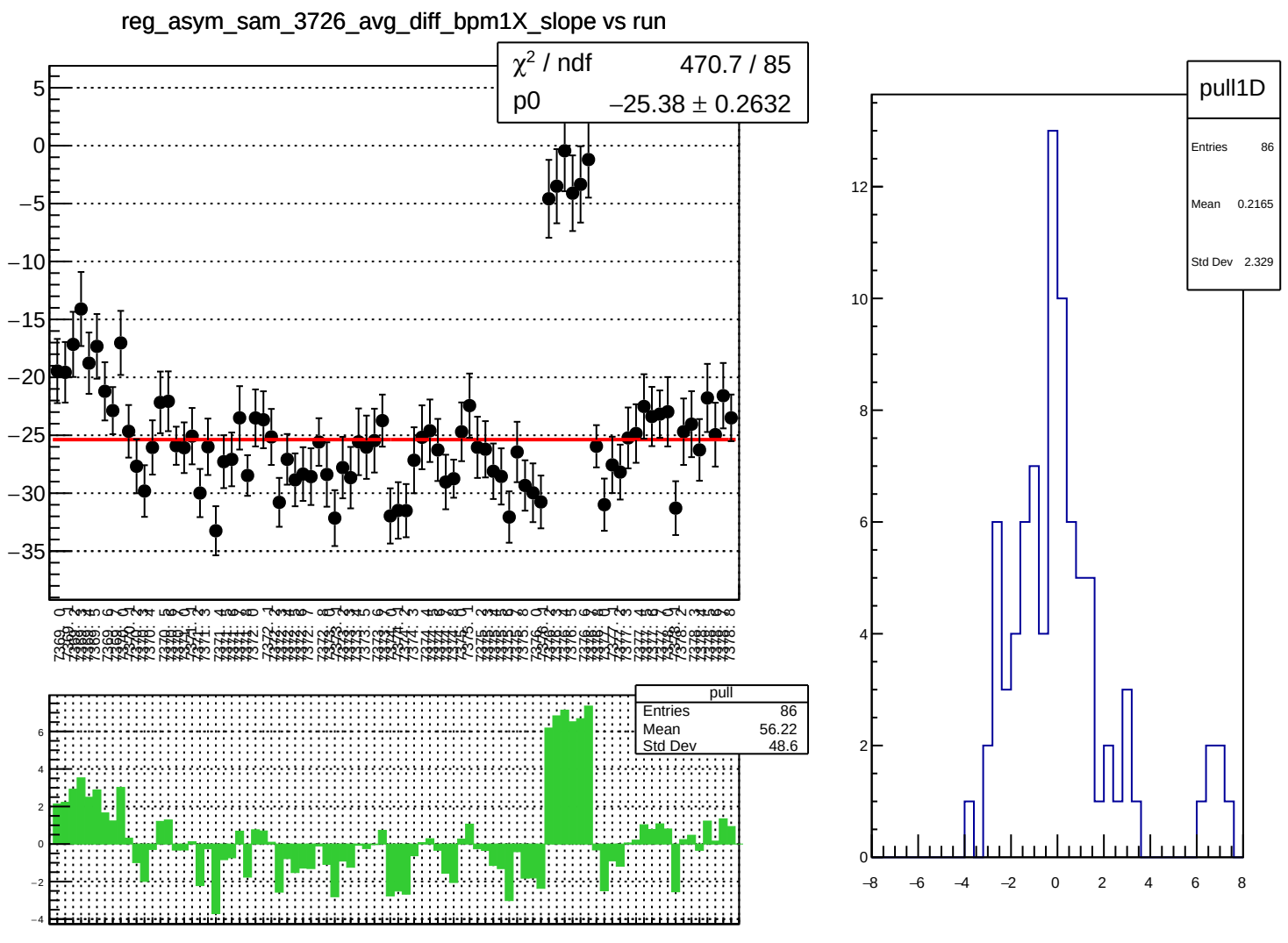

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 622.9 / 85
p0 −4.436 ± 0.1655
pull
Entries 86
Mean 87.74
Std Dev 0
pull1D
Entries 86
Mean −0.1877
Std Dev 2.553

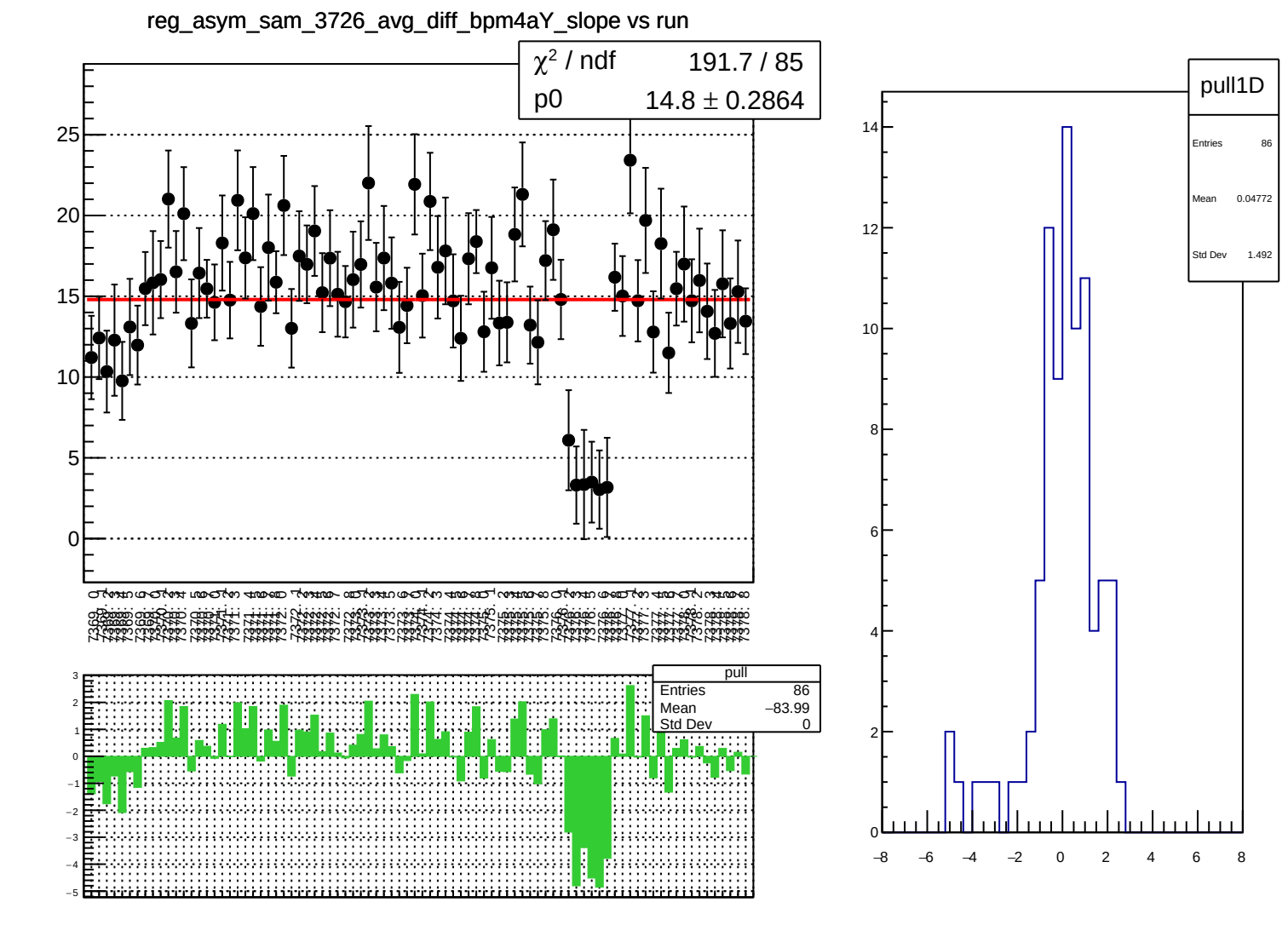

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 285.7 / 85
p0 8.005 ± 0.1851
pull
Entries 86
Mean 2485
Std Dev 0

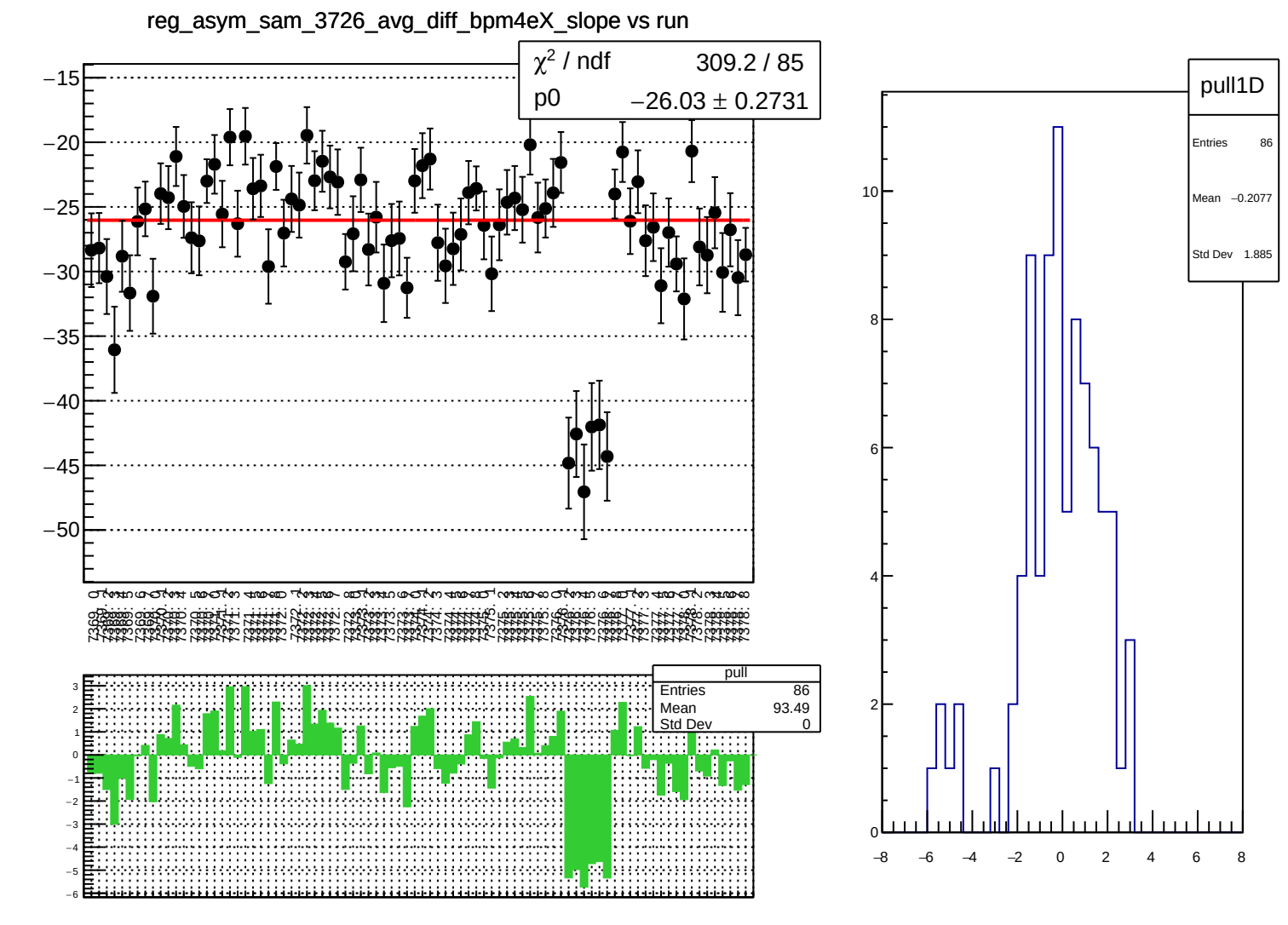

pull1D
Entries 86
Mean 0.007404
Std Dev 1.823

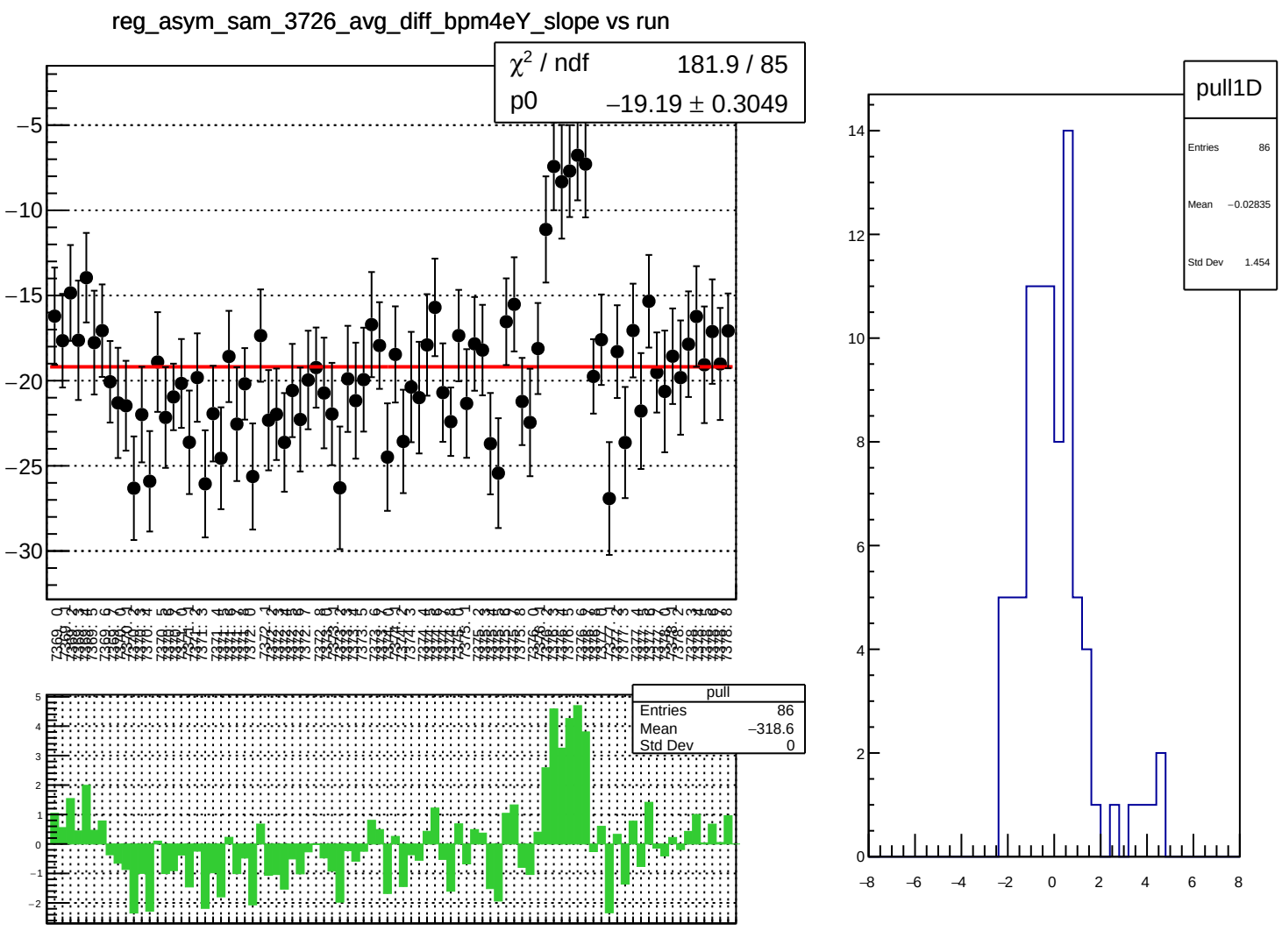

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 495.3 / 85
p0 0.3129 ± 0.008301
pull
Entries 86
Mean 432.9
Std Dev 0

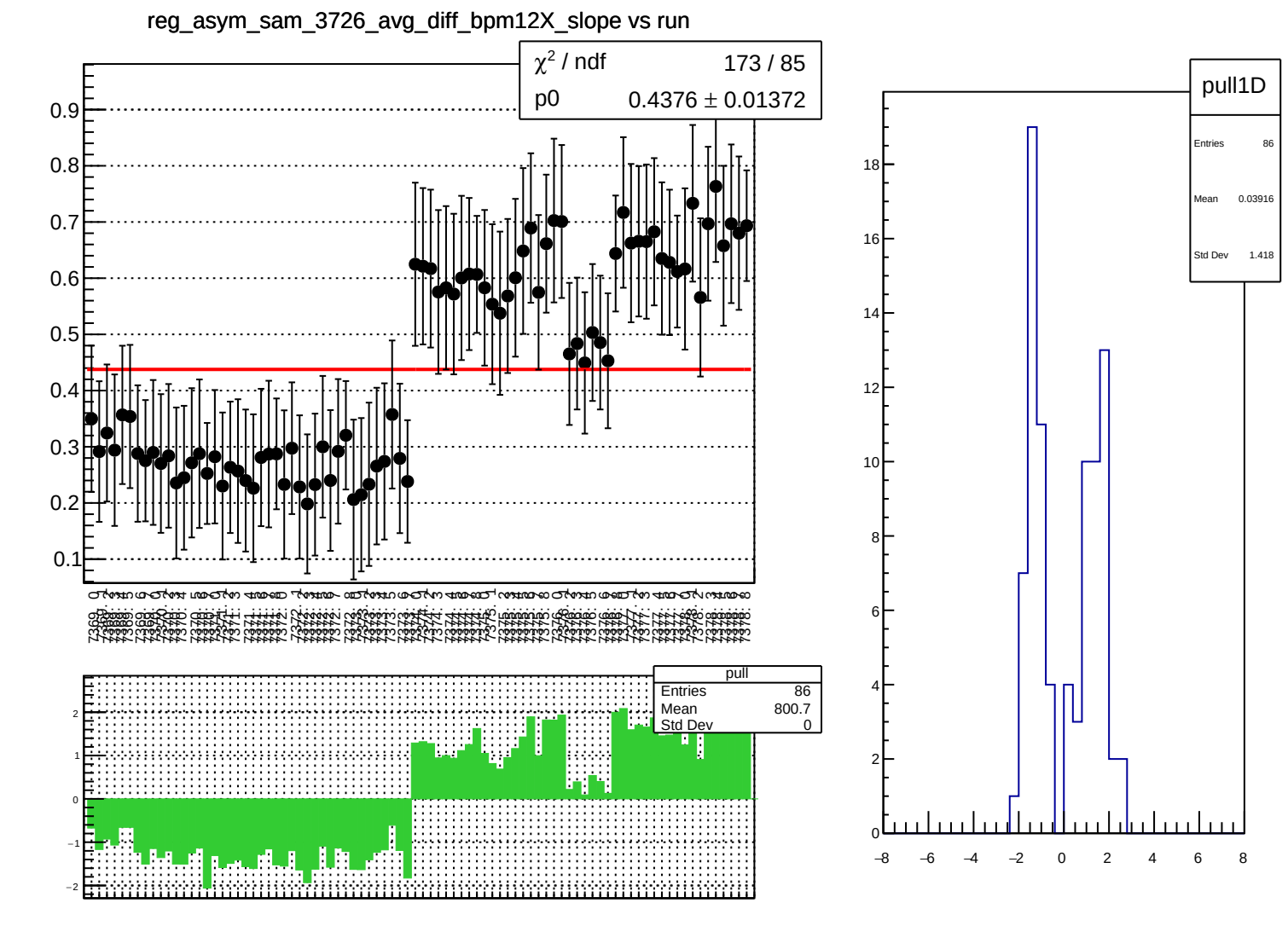

pull1D
Entries 86
Mean 0.1267
Std Dev 2.397

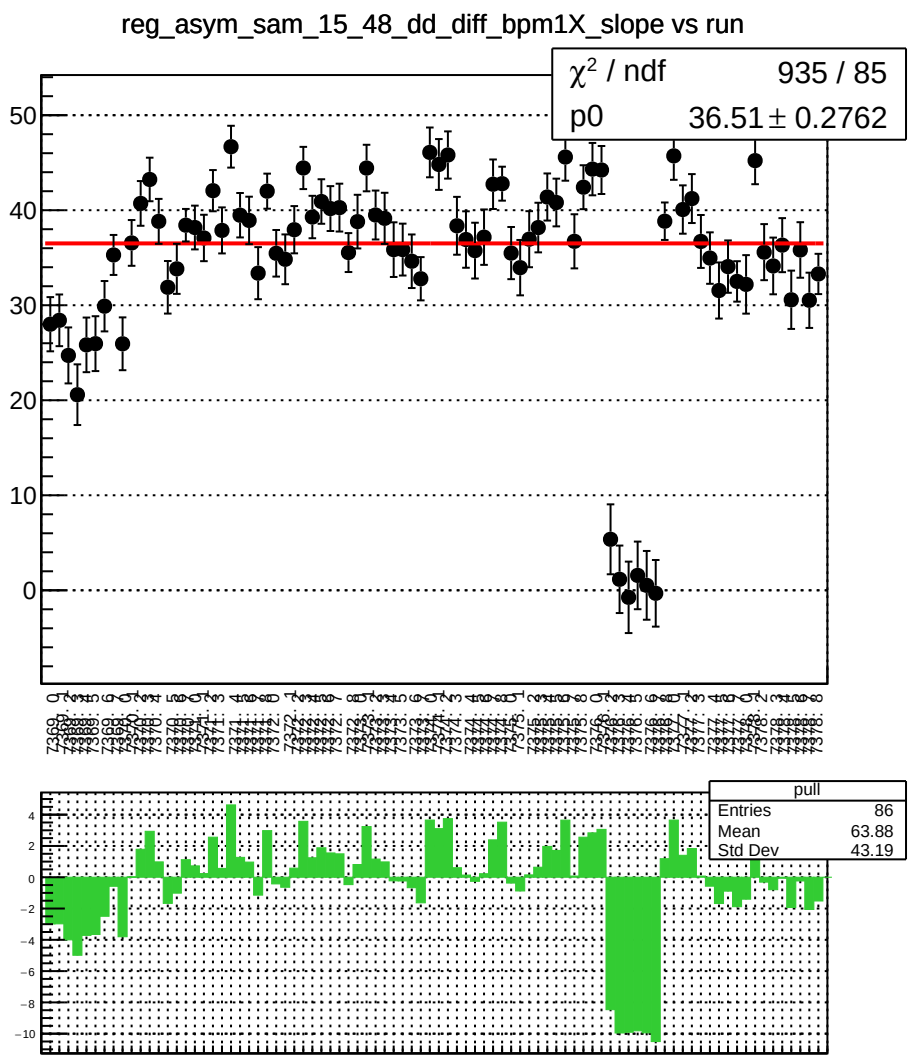

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 470.7 / 85
p0 −25.38 ± 0.2632
pull
Entries 86
Mean 56.22
Std Dev 48.6
pull1D
Entries 86
Mean 0.2165
Std Dev 2.329

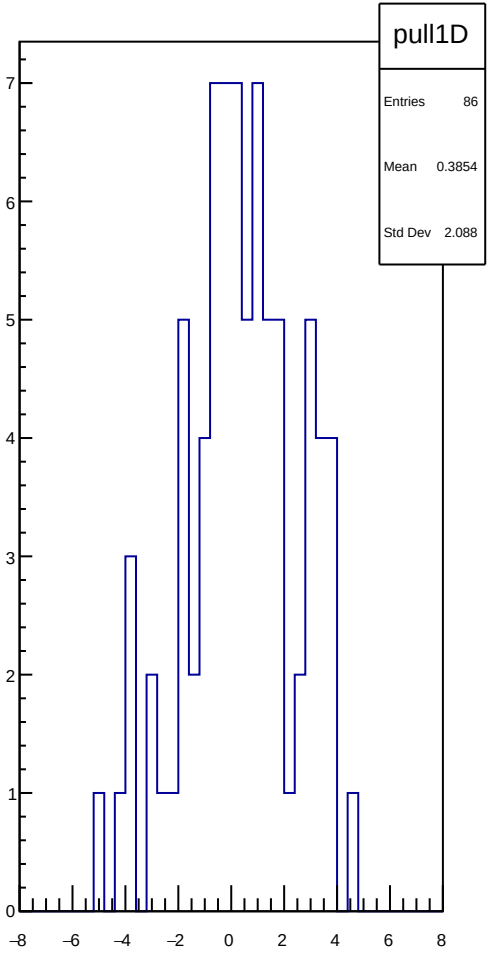

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 191.7 / 85
p0 14.8 ± 0.2864
pull
Entries 86
Mean −83.99
Std Dev 0
pull1D
Entries 86
Mean 0.04772
Std Dev 1.492

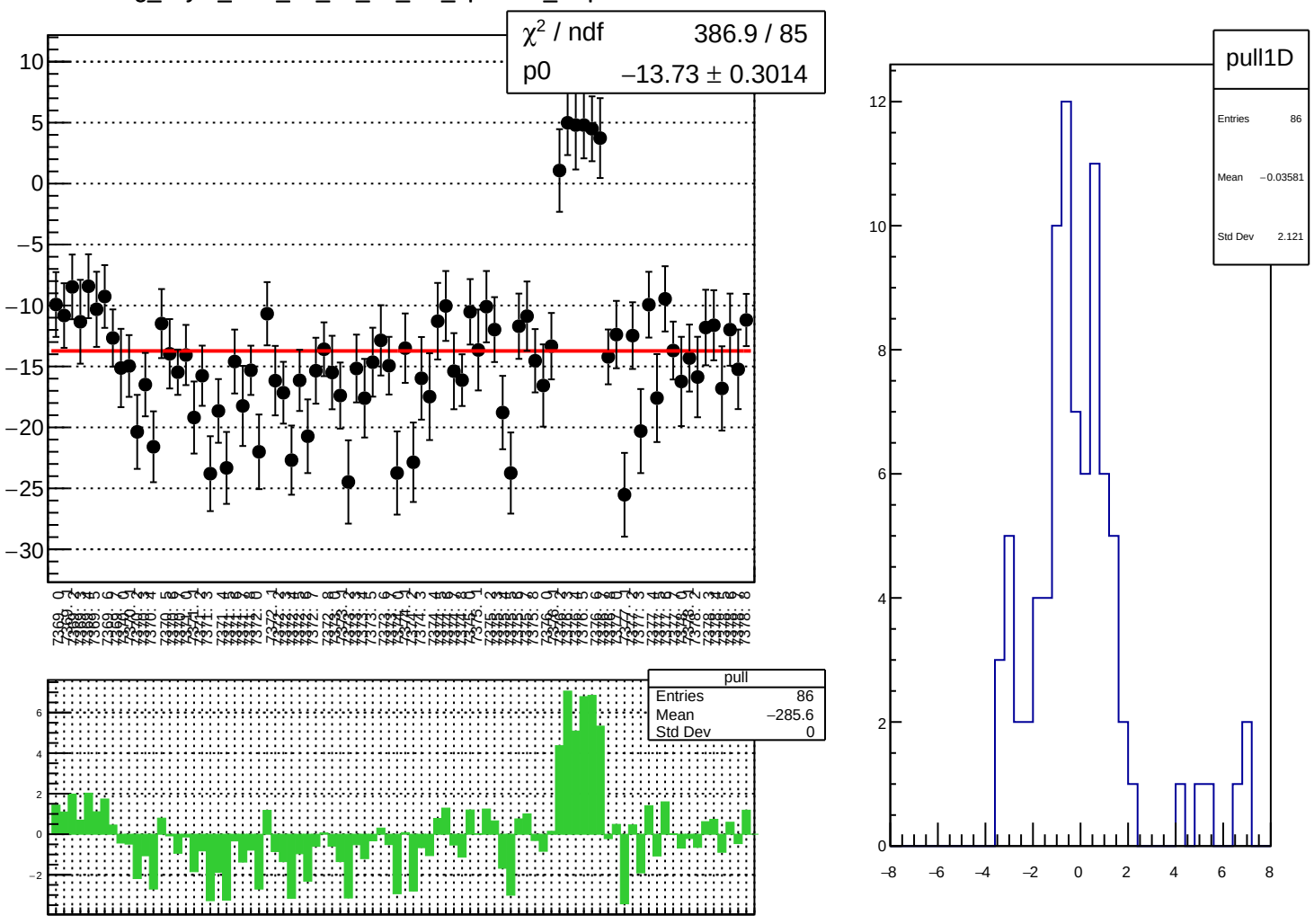

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 309.2 / 85
p0 −26.03 ± 0.2731
pull
Entries 86
Mean 93.49
Std Dev 0
pull1D
Entries 86
Mean −0.2077
Std Dev 1.885

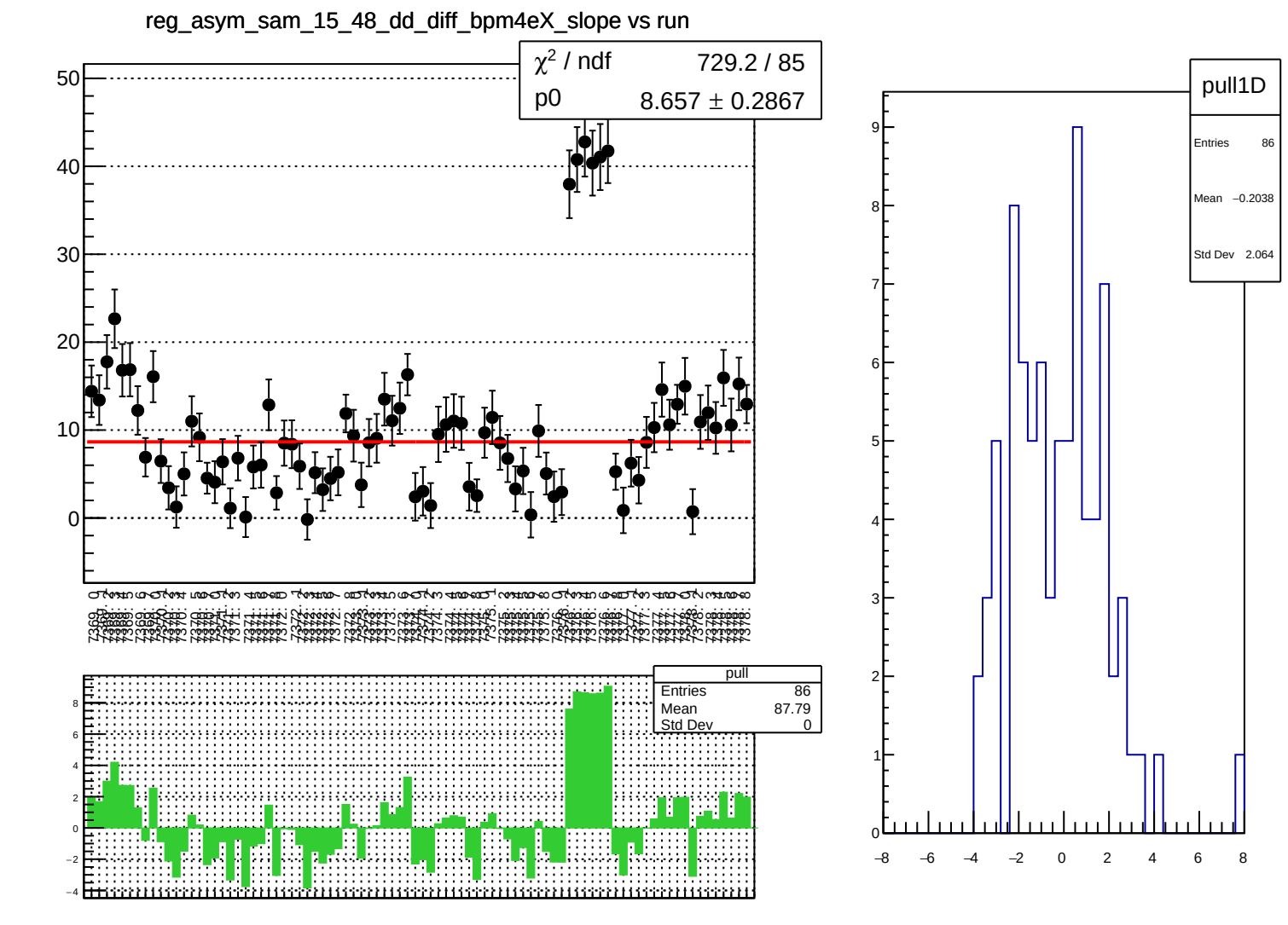

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 181.9 / 85
p0 −19.19 ± 0.3049
pull
Entries 86
Mean −318.6
Std Dev 0
pull1D
Entries 86
Mean −0.02835
Std Dev 1.454

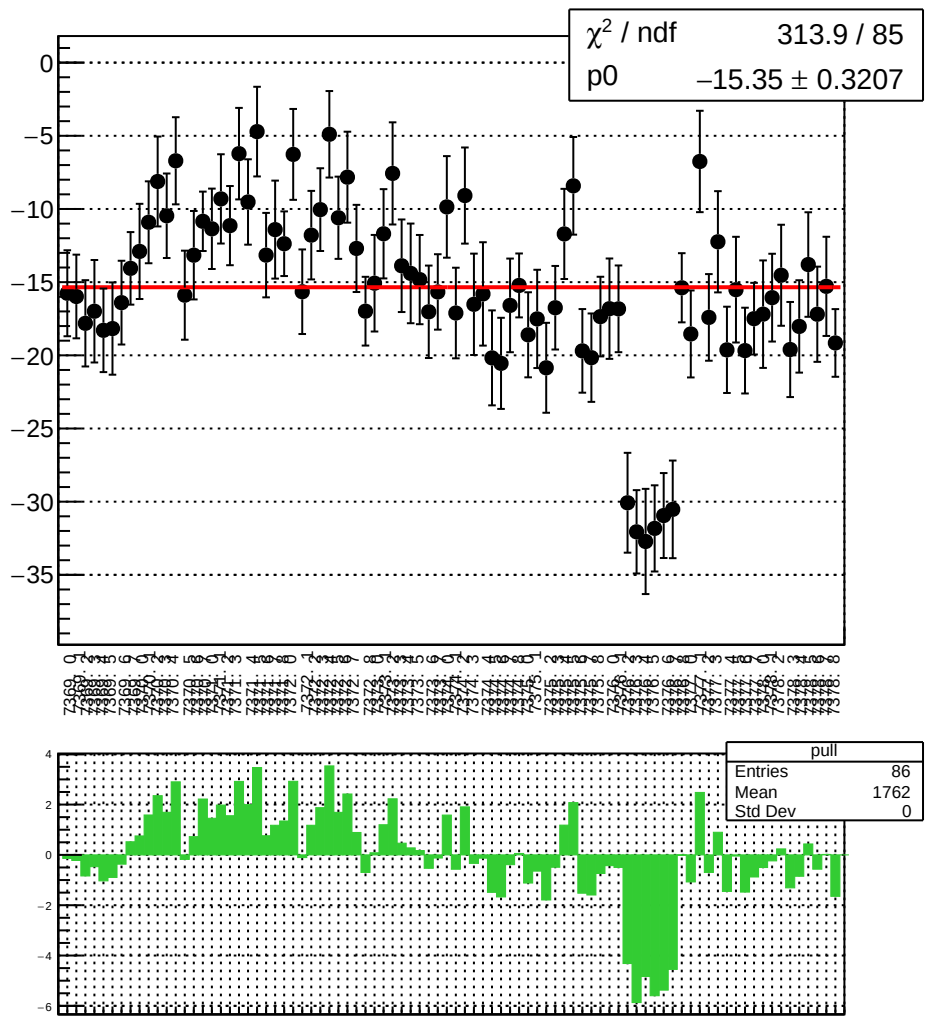

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 173 / 85
p0 0.4376 ± 0.01372
pull
Entries 86
Mean 800.7
Std Dev 0
pull1D
Entries 86
Mean 0.03916
Std Dev 1.418

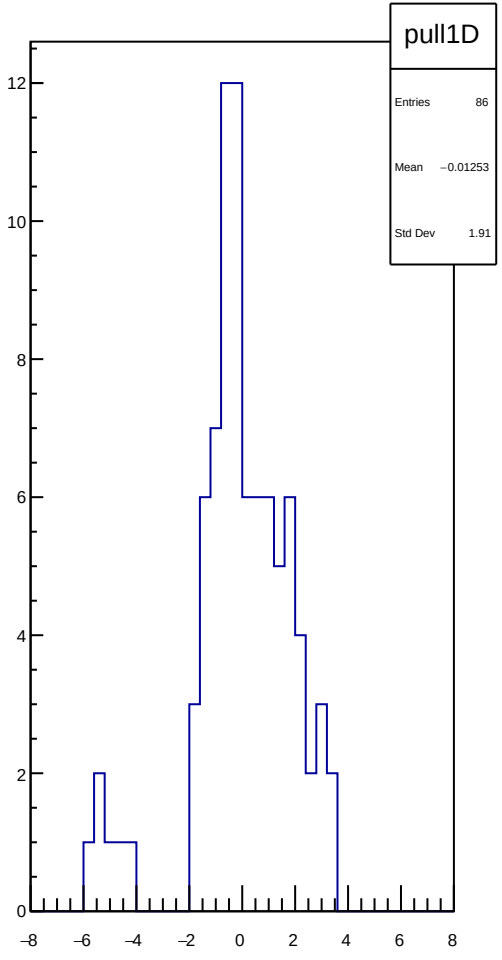

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 935 / 85
p0 36.51 ± 0.2762
pull
Entries 86
Mean 63.88
Std Dev 43.19

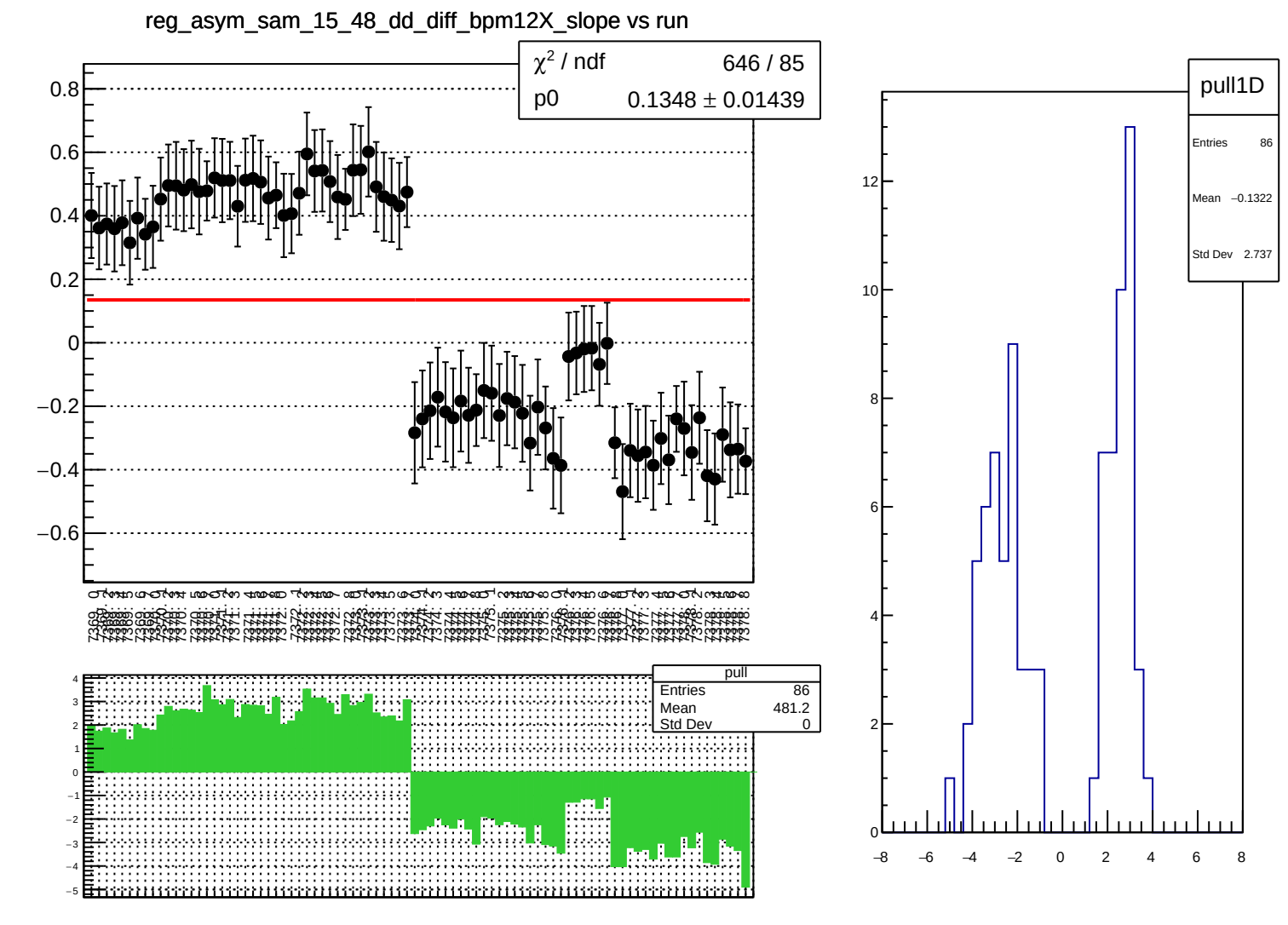

pull1D
Entries 86
Mean 0.3854
Std Dev 2.088

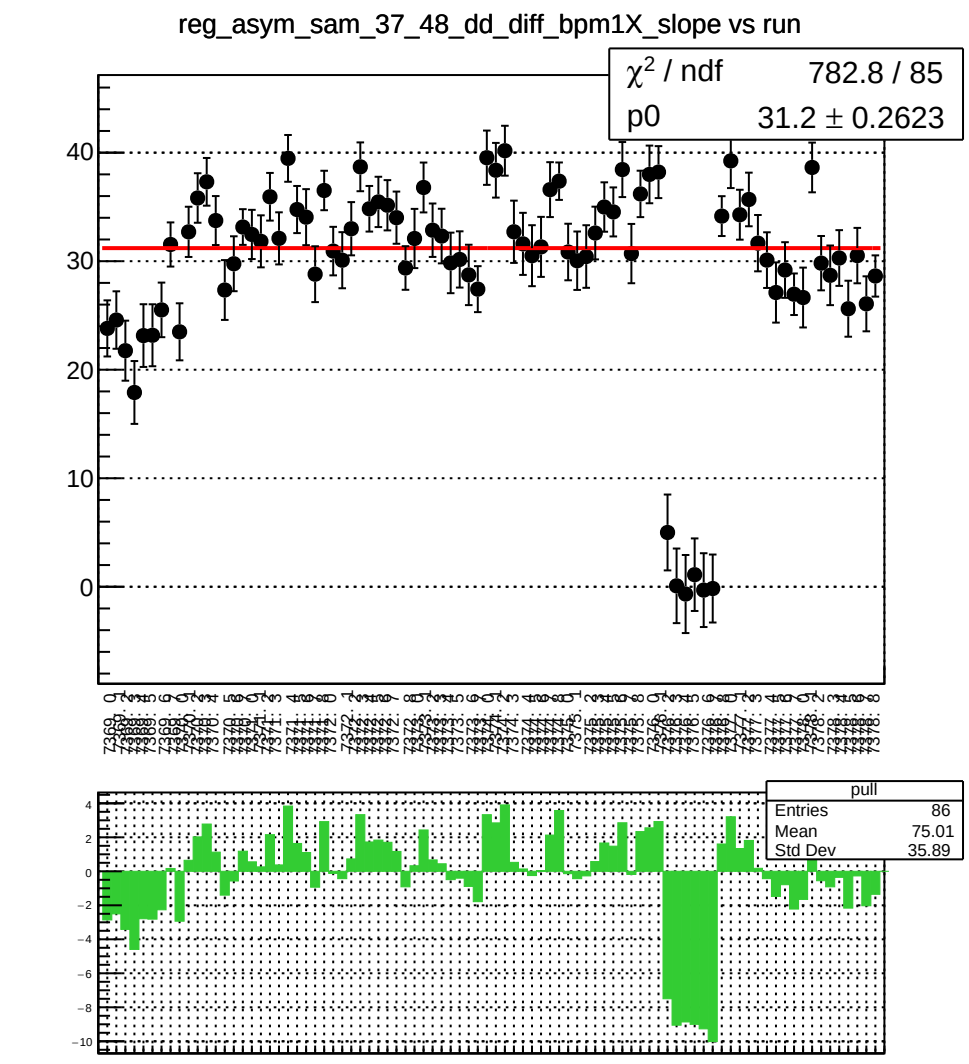

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 386.9 / 85
p0 −13.73 ± 0.3014
pull
Entries 86
Mean −285.6
Std Dev 0
pull1D
Entries 86
Mean −0.03581
Std Dev 2.121

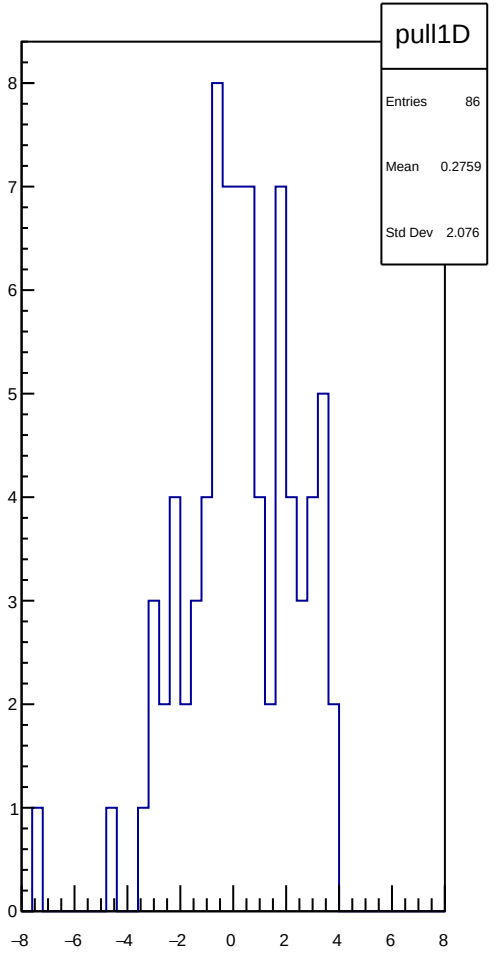

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 729.2 / 85
p0 8.657 ± 0.2867
pull
Entries 86
Mean 87.79
Std Dev 0
pull1D
Entries 86
Mean −0.2038
Std Dev 2.064

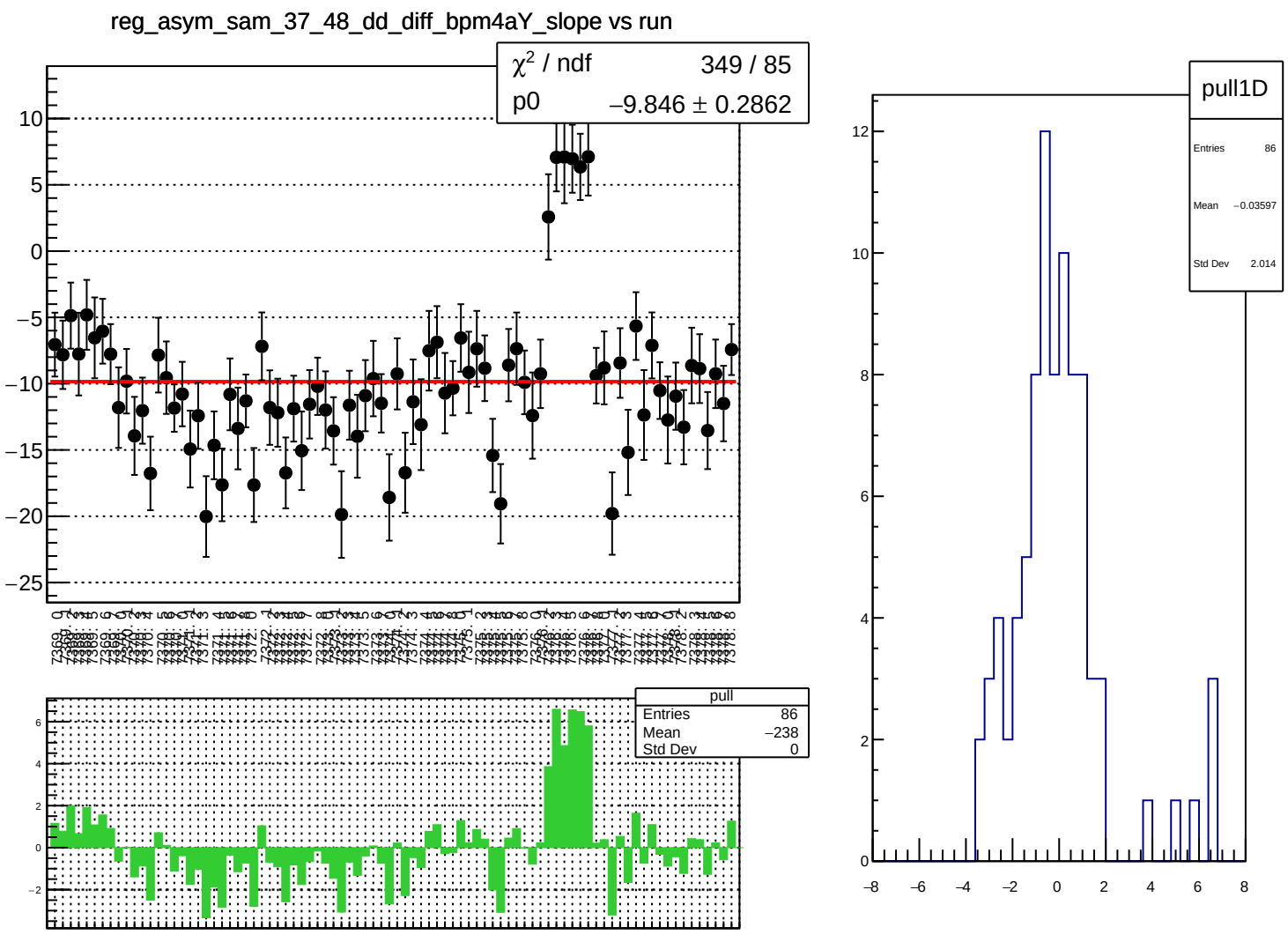

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 313.9 / 85
p0 −15.35 ± 0.3207
pull
Entries 86
Mean 1762
Std Dev 0

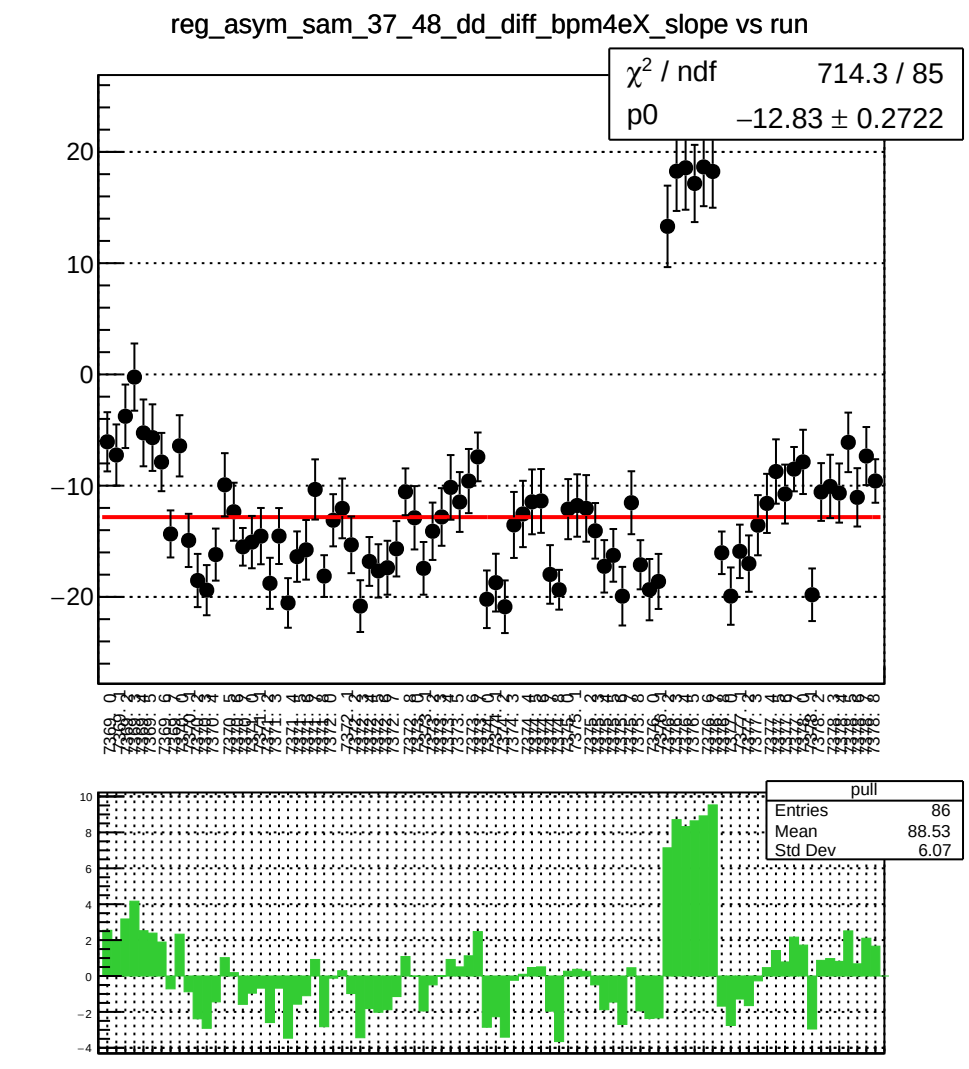

pull1D
Entries 86
Mean −0.01253
Std Dev 1.91

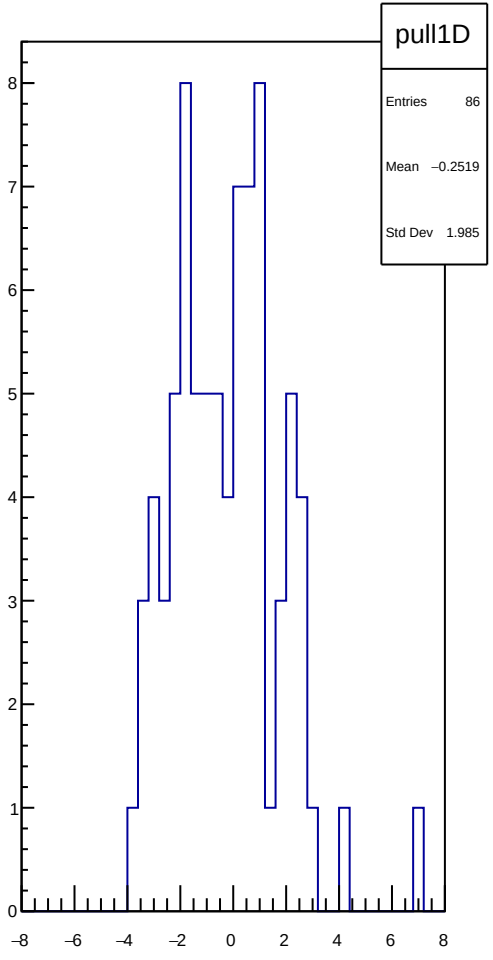

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 646 / 85
p0 0.1348 ± 0.01439
pull
Entries 86
Mean 481.2
Std Dev 0
pull1D
Entries 86
Mean −0.1322
Std Dev 2.737

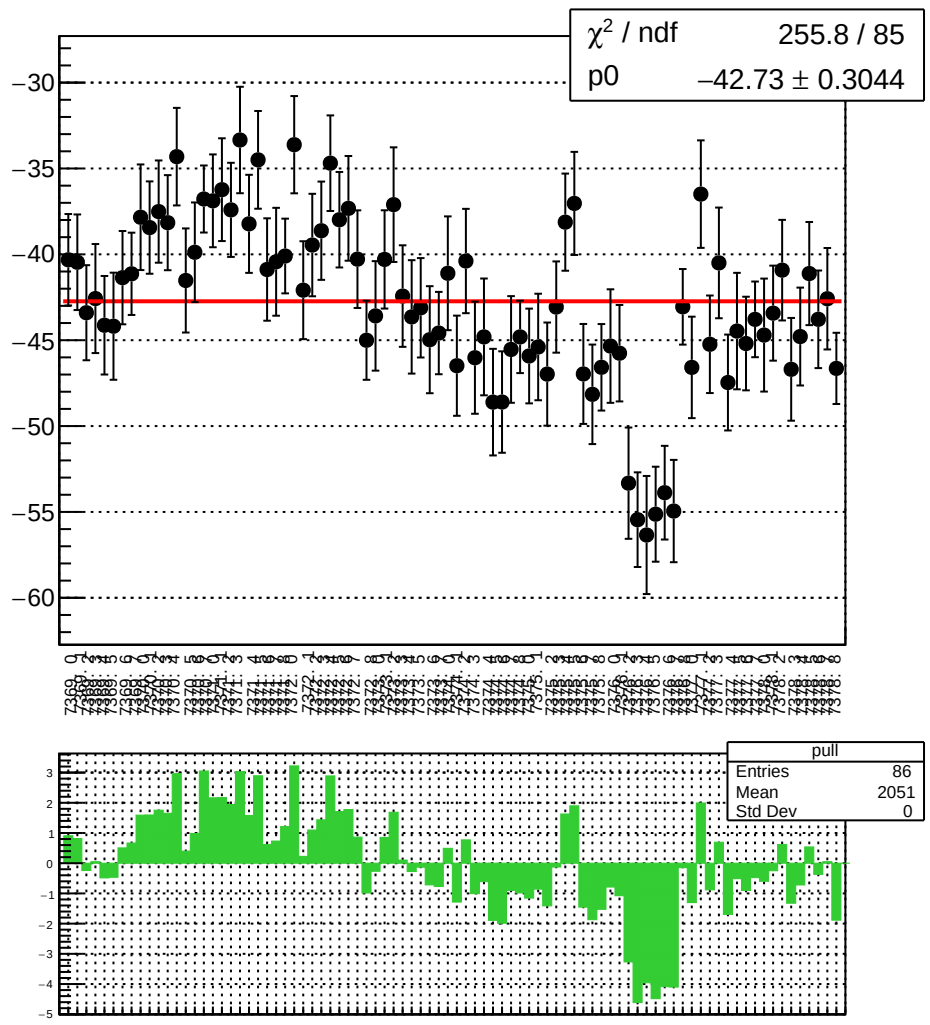

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 782.8 / 85
p0 31.2 ± 0.2623
pull
Entries 86
Mean 75.01
Std Dev 35.89

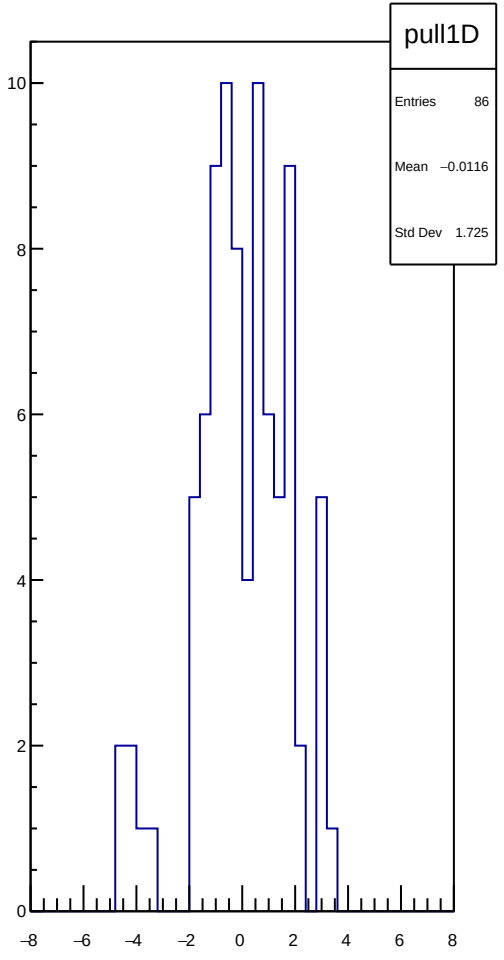

pull1D
Entries 86
Mean 0.2759
Std Dev 2.076

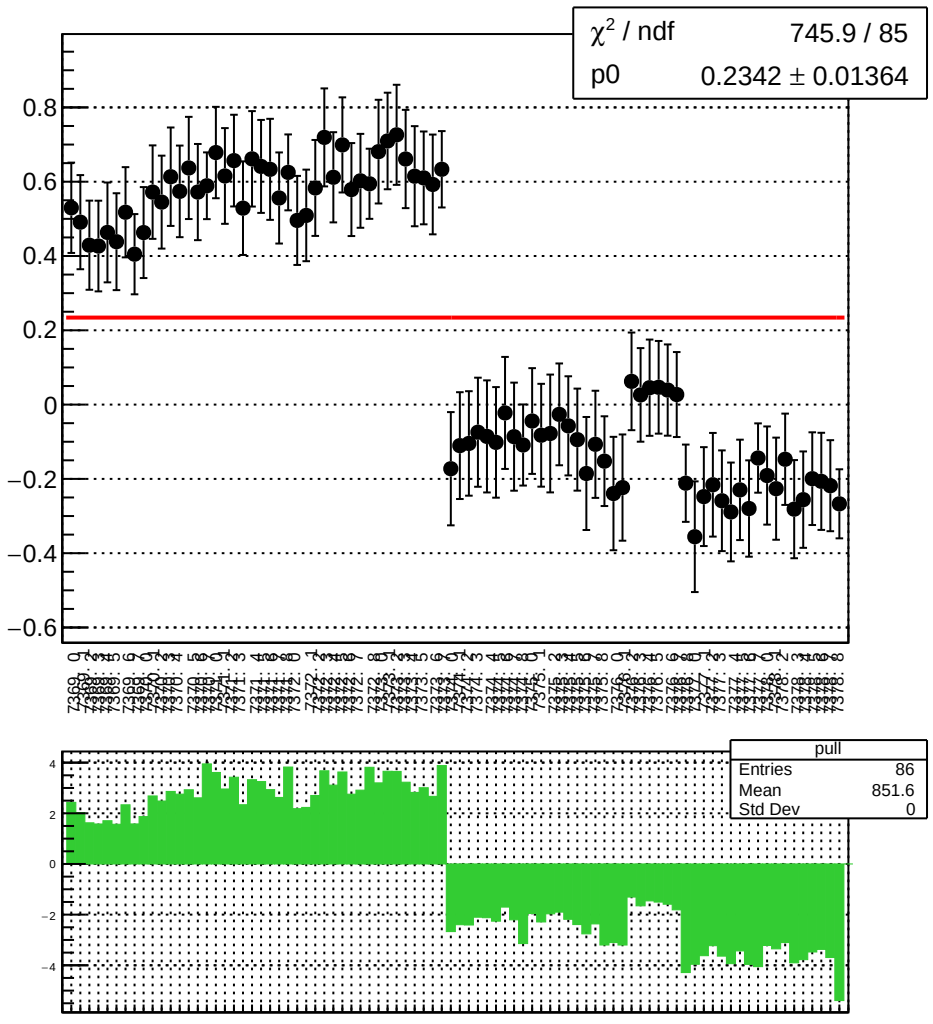

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 349 / 85
p0 −9.846 ± 0.2862
pull
Entries 86
Mean −238
Std Dev 0
pull1D
Entries 86
Mean −0.03597
Std Dev 2.014

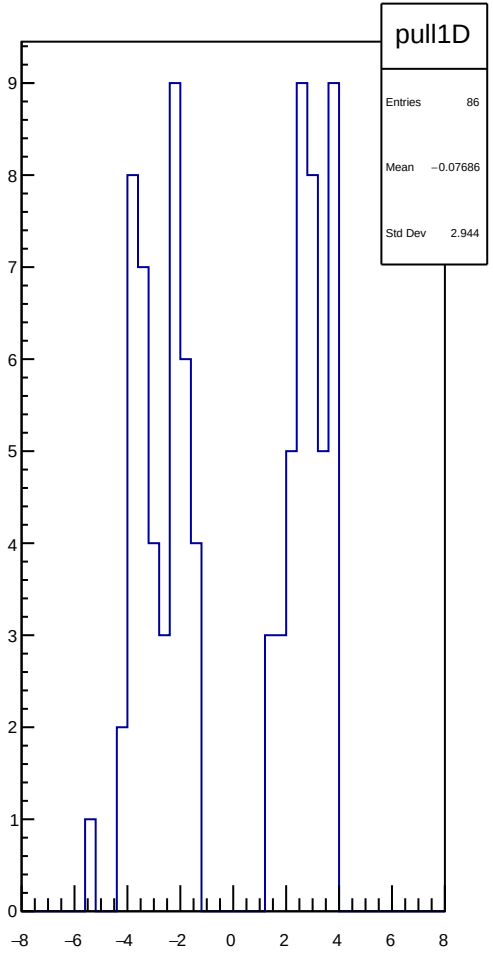

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 714.3 / 85
p0 −12.83 ± 0.2722
pull
Entries 86
Mean 88.53
Std Dev 6.07

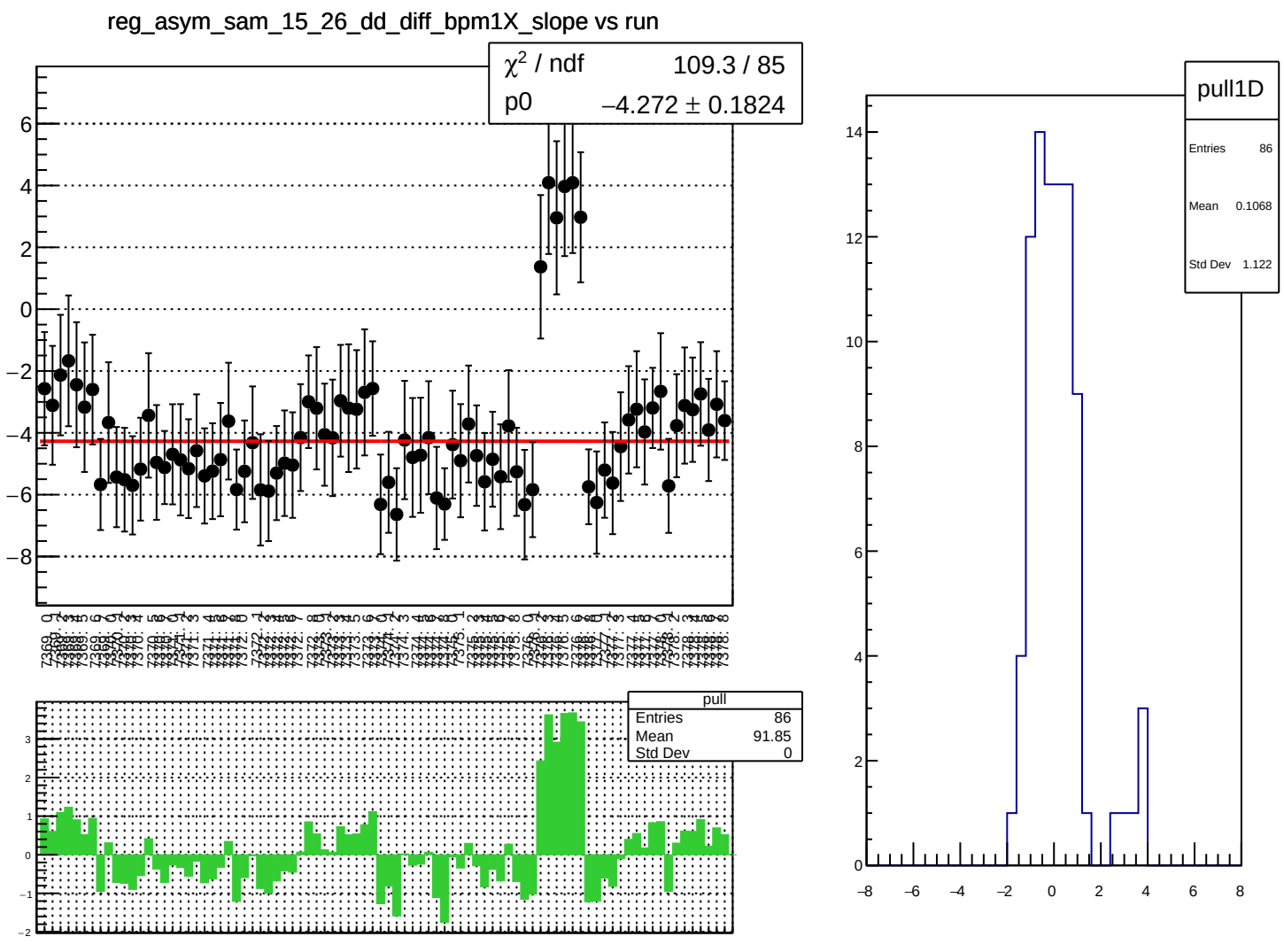

pull1D
Entries 86
Mean −0.2519
Std Dev 1.985

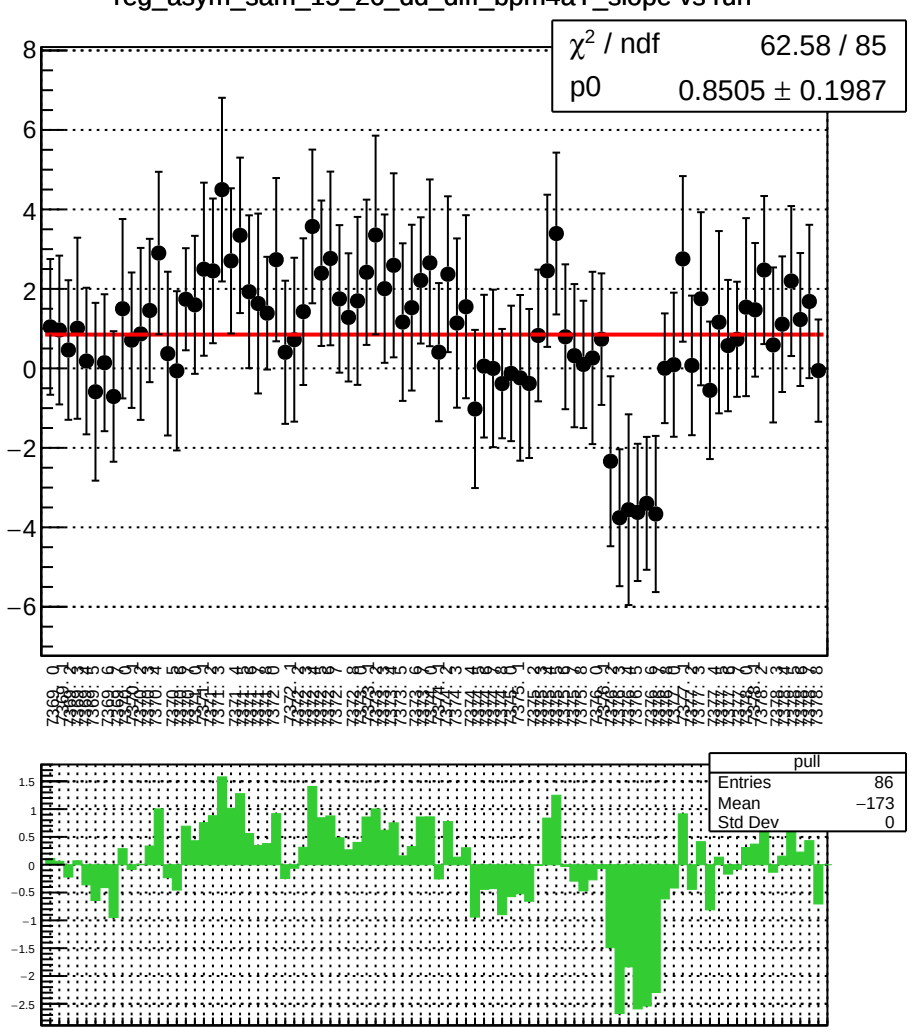

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 255.8 / 85
p0 −42.73 ± 0.3044
pull
Entries 86
Mean 2051
Std Dev 0

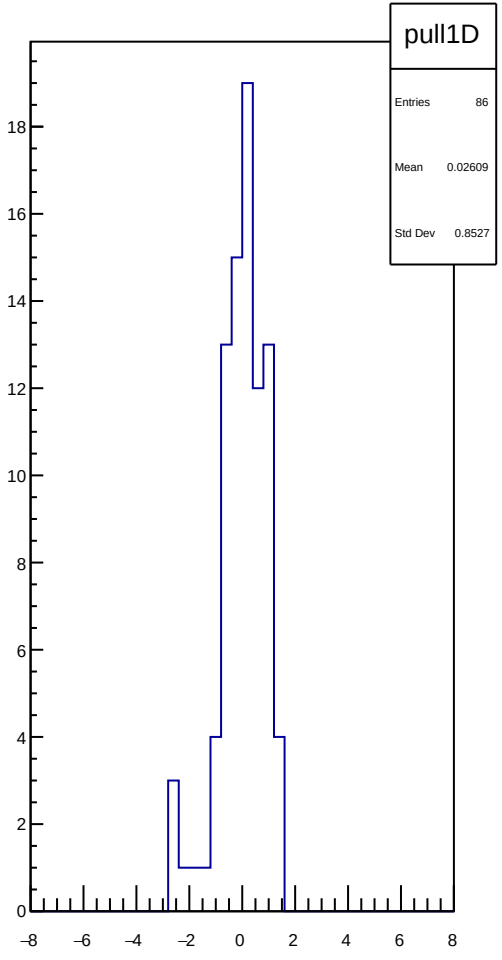

pull1D
Entries 86
Mean −0.0116
Std Dev 1.725

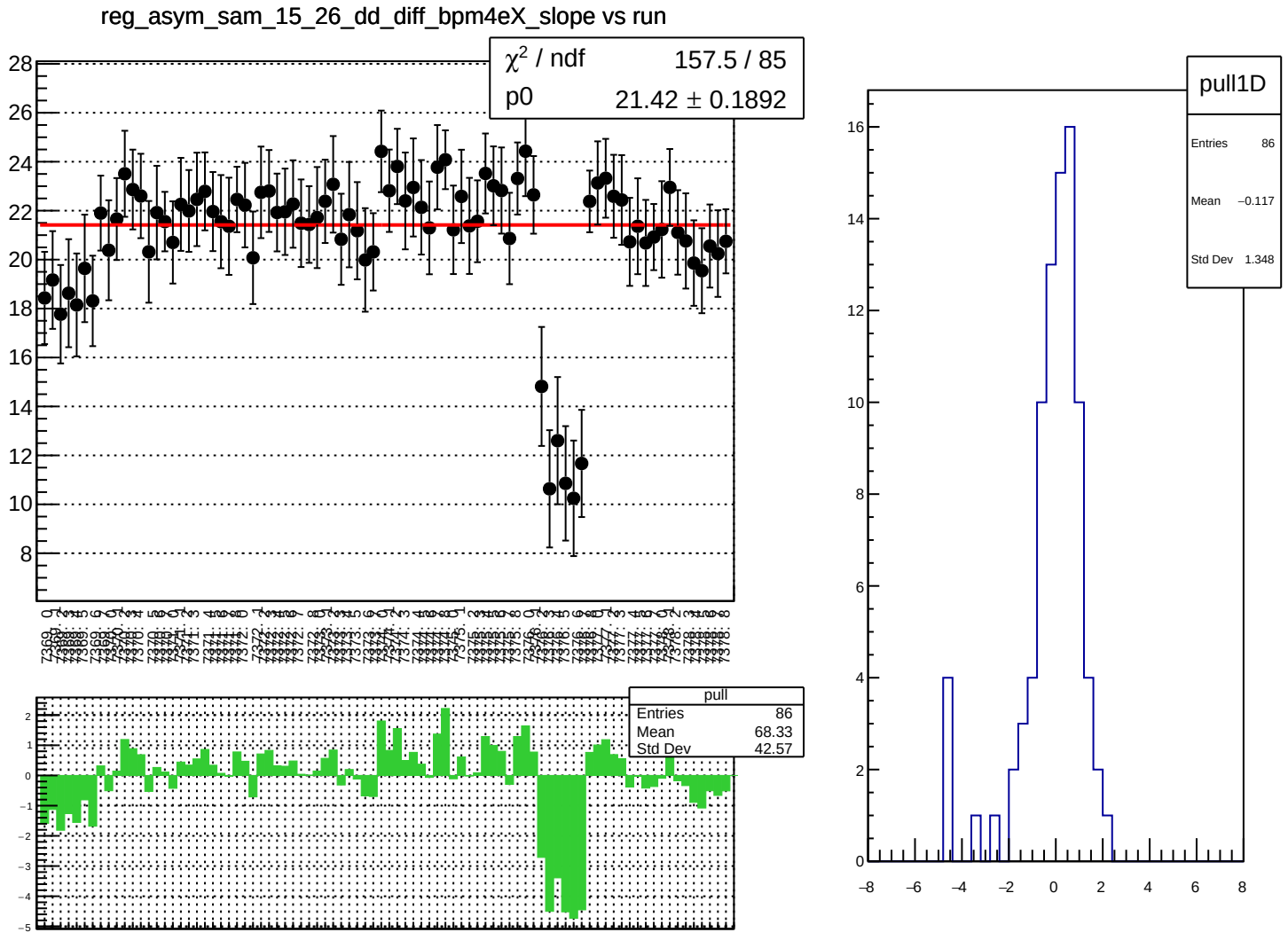

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 745.9 / 85
p0 0.2342 ± 0.01364
pull
Entries 86
Mean 851.6
Std Dev 0

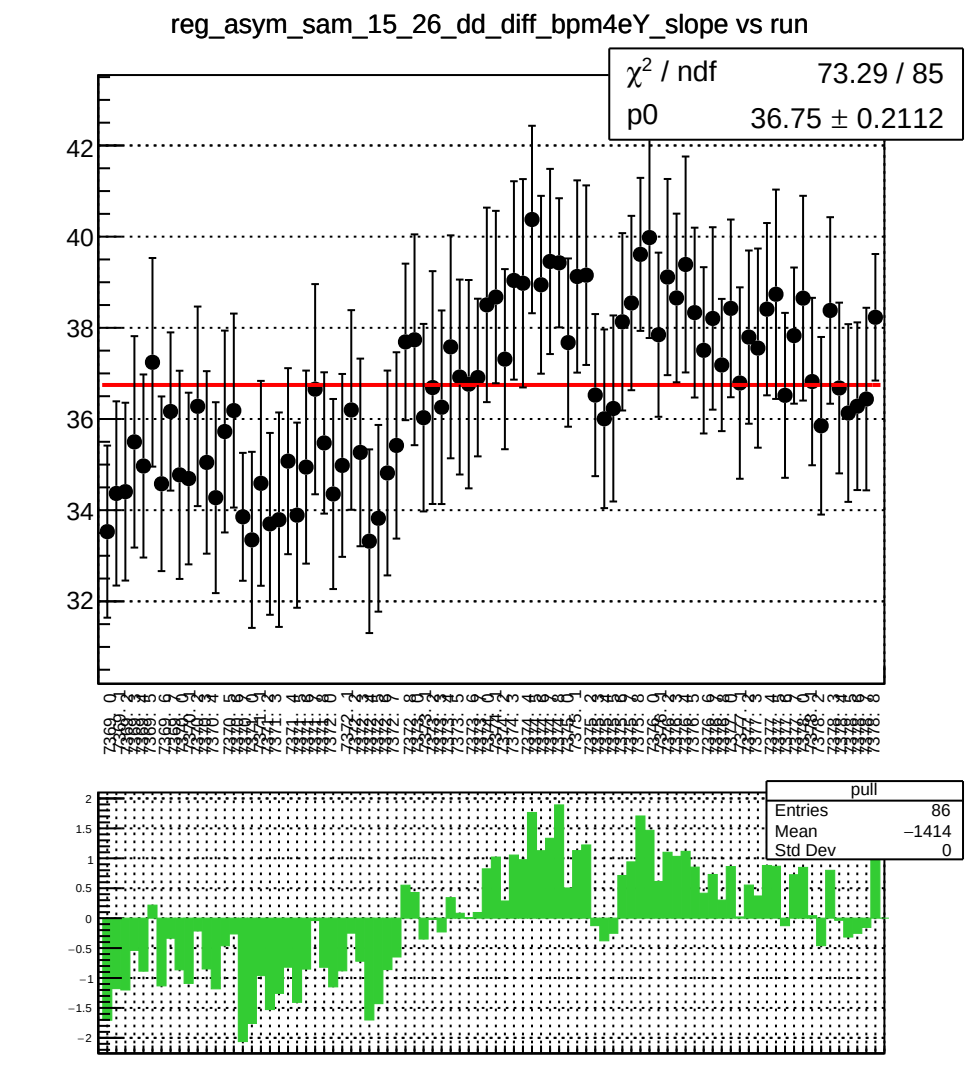

pull1D
Entries 86
Mean −0.07686
Std Dev 2.944

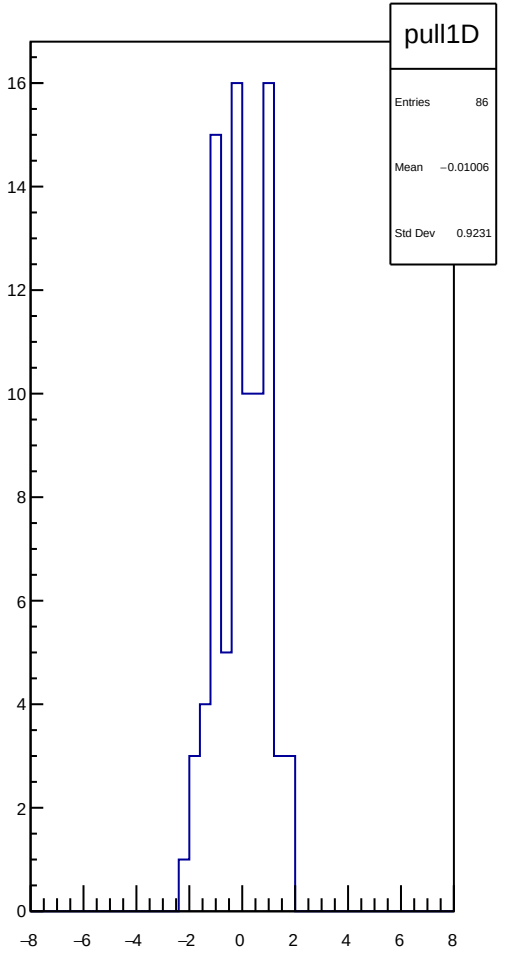

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 109.3 / 85
p0 −4.272 ± 0.1824
pull
Entries 86
Mean 91.85
Std Dev 0
pull1D
Entries 86
Mean 0.1068
Std Dev 1.122

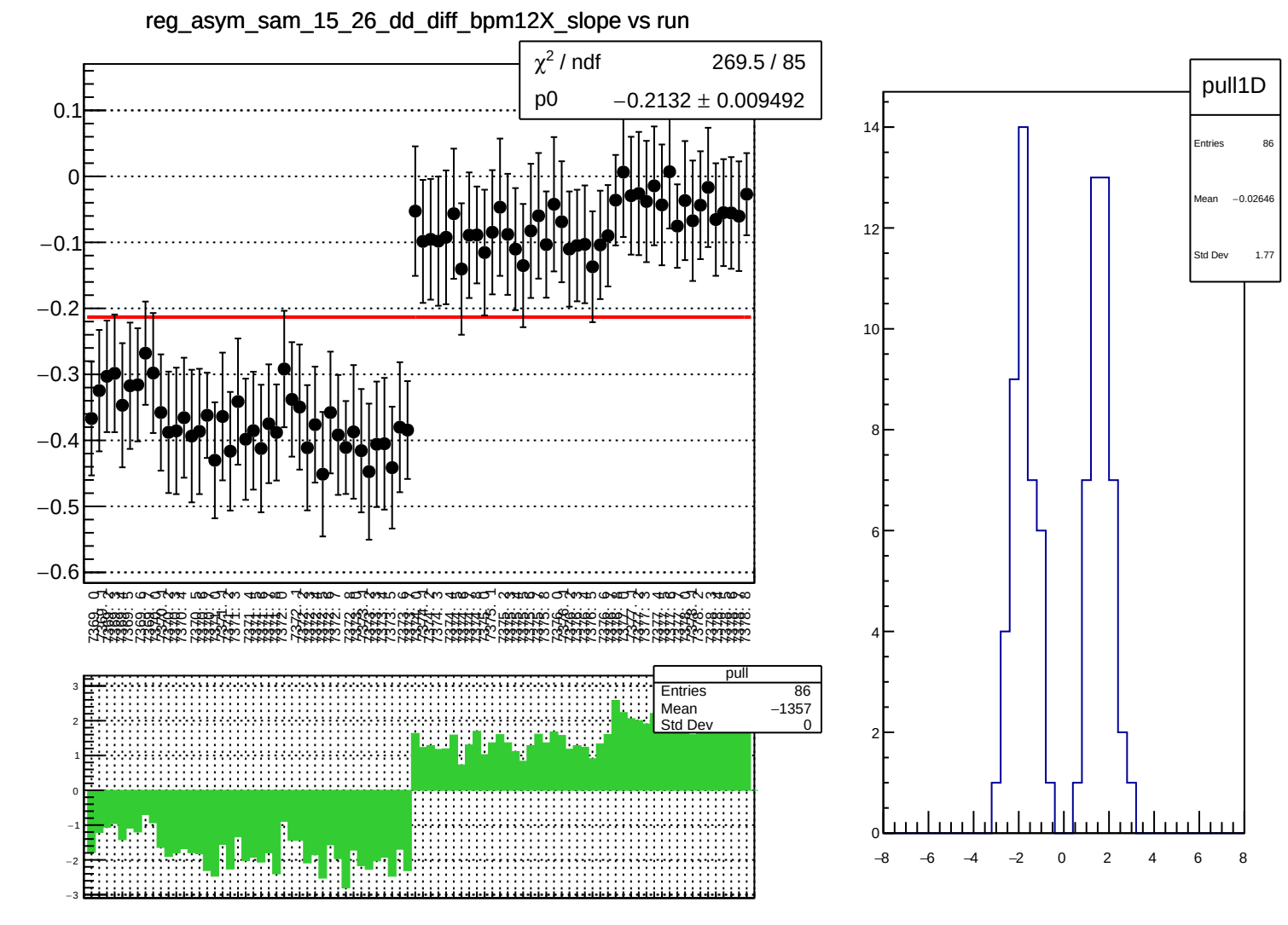

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.58 / 85
p0 0.8505 ± 0.1987
pull
Entries 86
Mean −173
Std Dev 0

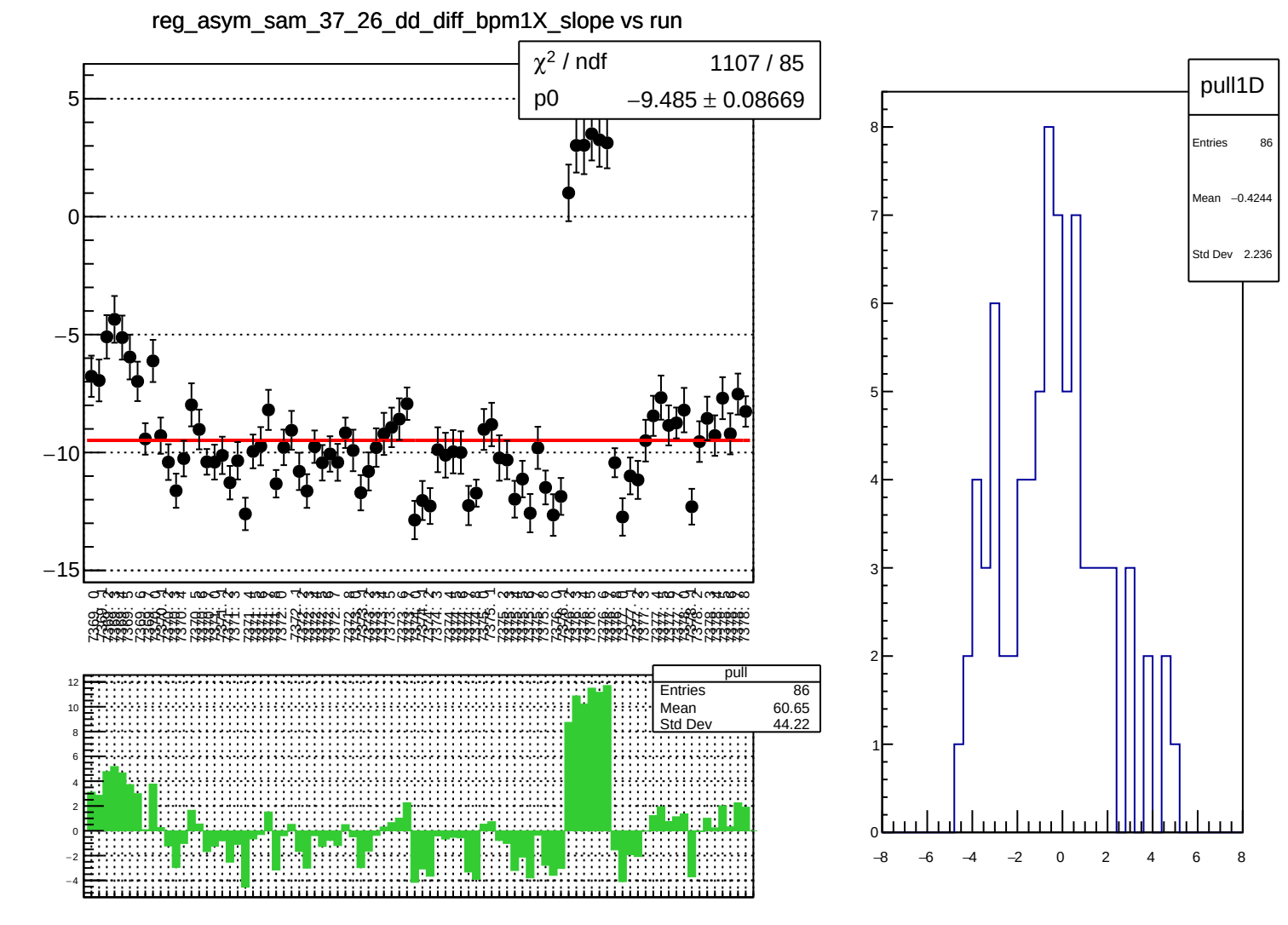

pull1D
Entries 86
Mean 0.02609
Std Dev 0.8527

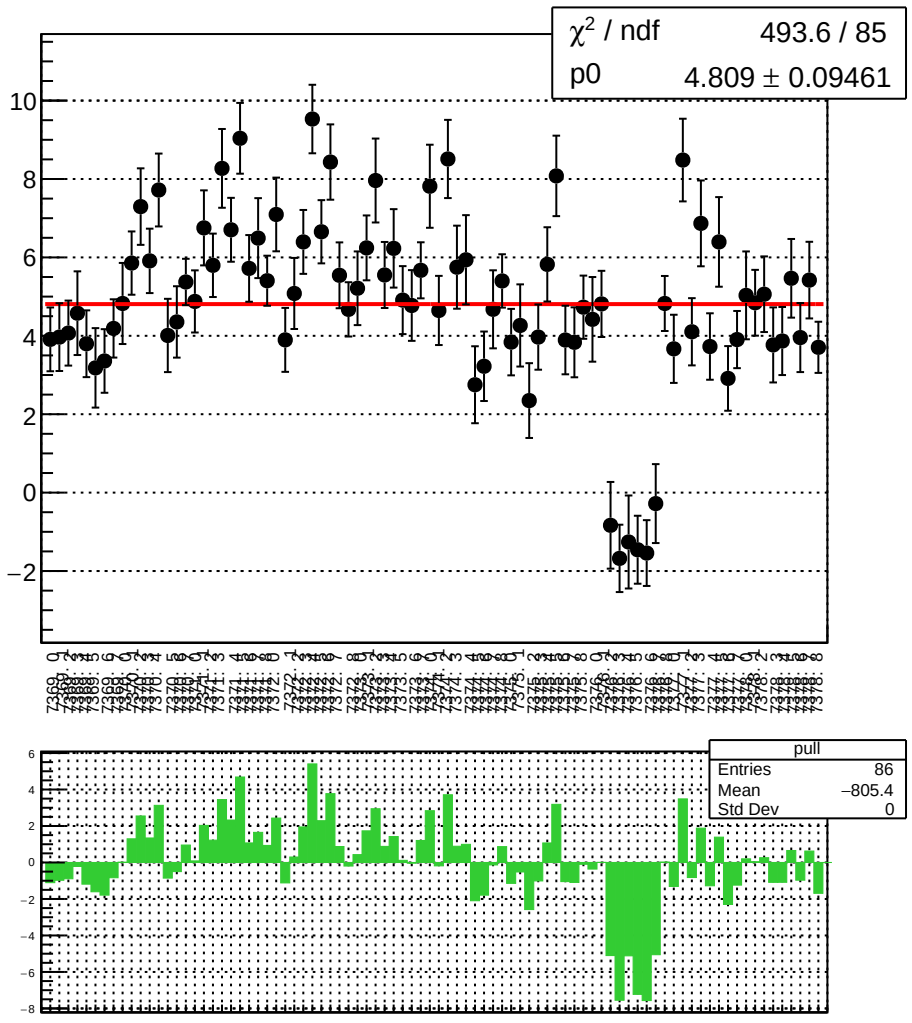

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 157.5 / 85
p0 21.42 ± 0.1892
pull
Entries 86
Mean 68.33
Std Dev 42.57
pull1D
Entries 86
Mean −0.117
Std Dev 1.348

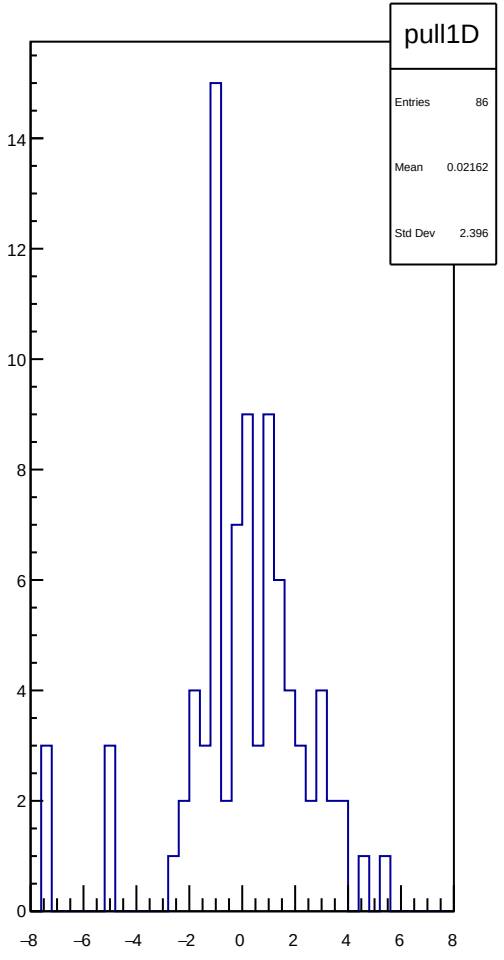

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.29 / 85
p0 36.75 ± 0.2112
pull
Entries 86
Mean −1414
Std Dev 0

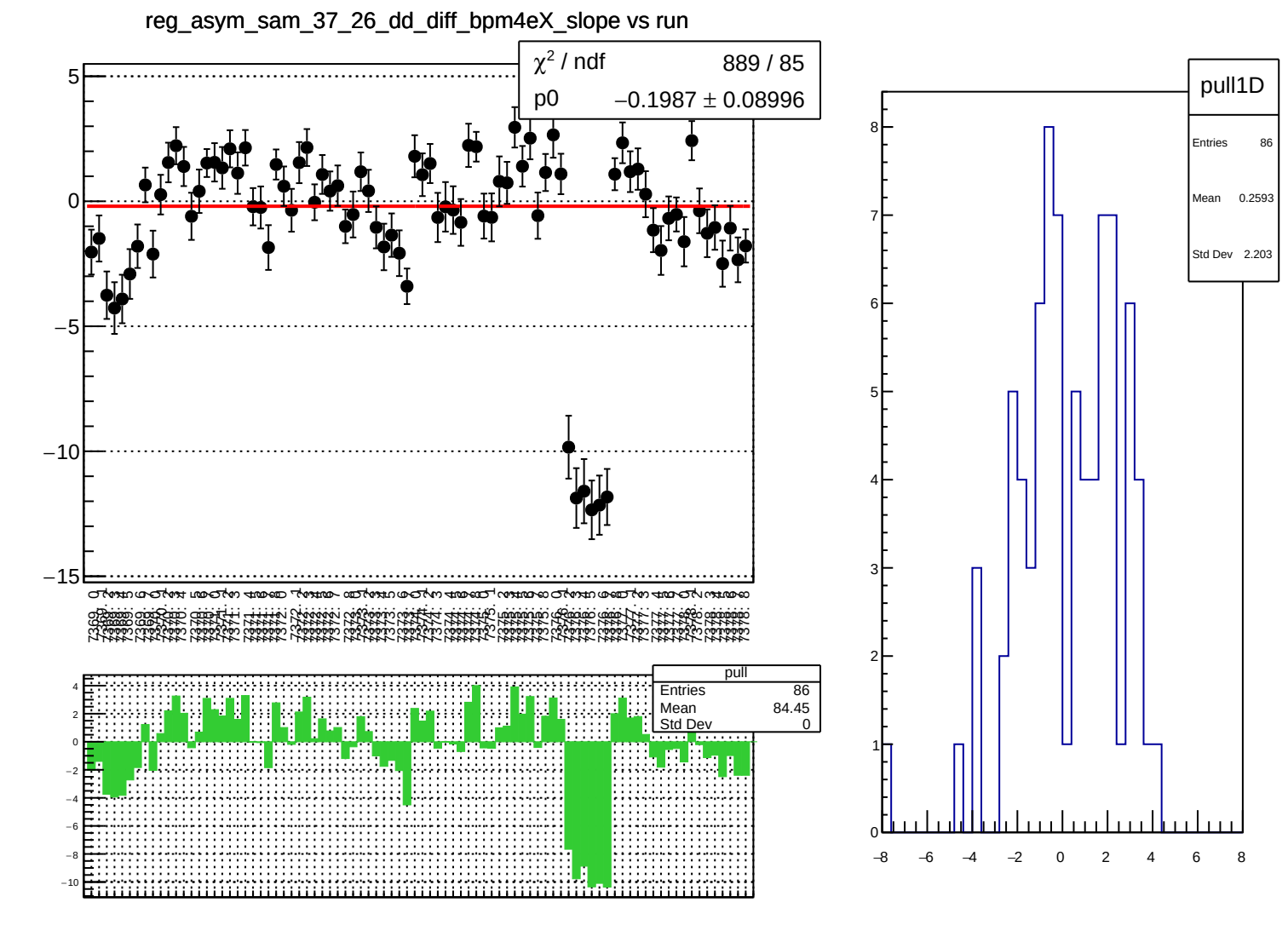

pull1D
Entries 86
Mean −0.01006
Std Dev 0.9231

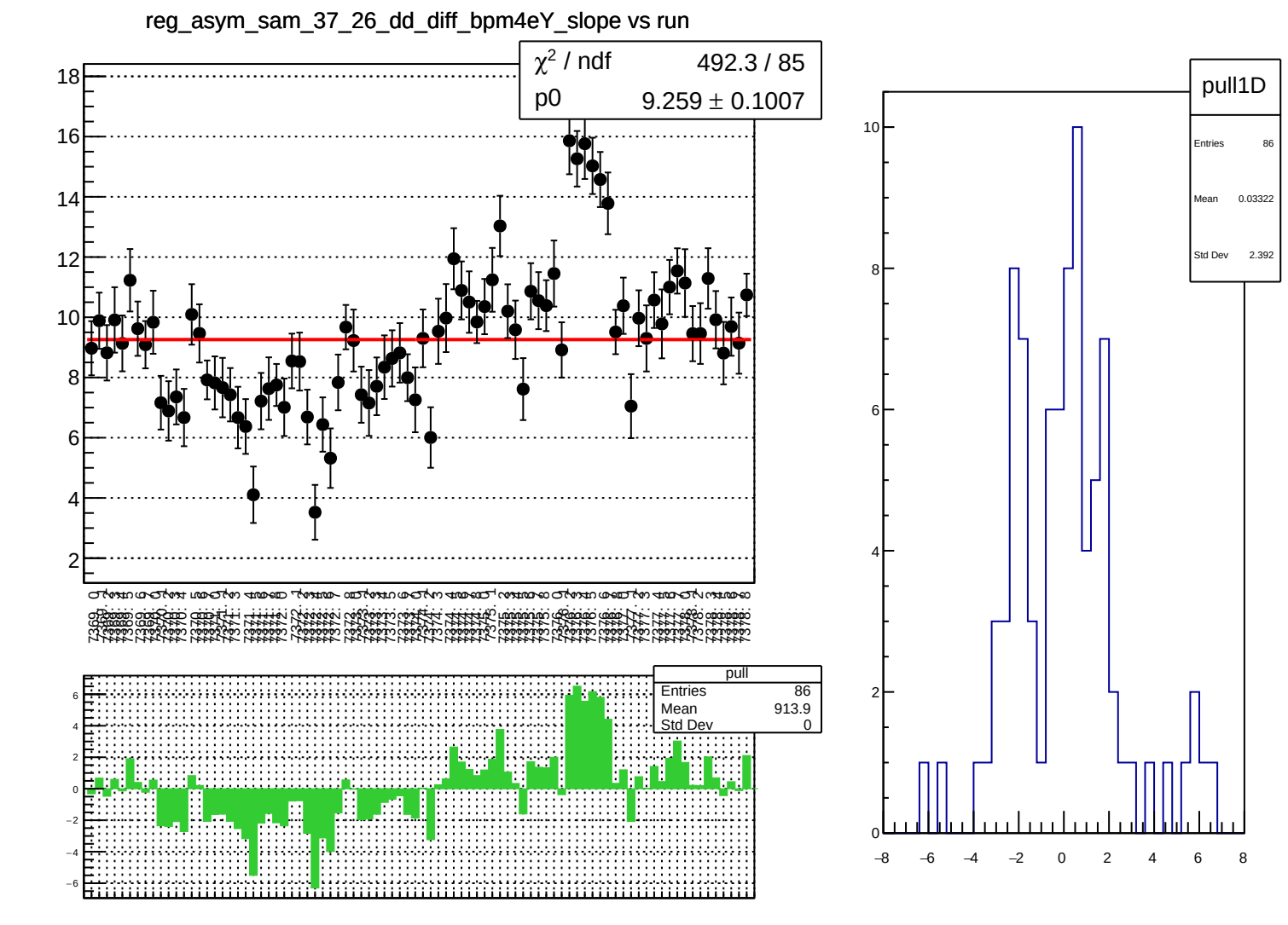

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 269.5 / 85
p0 −0.2132 ± 0.009492
pull
Entries 86
Mean −1357
Std Dev 0
pull1D
Entries 86
Mean −0.02646
Std Dev 1.77

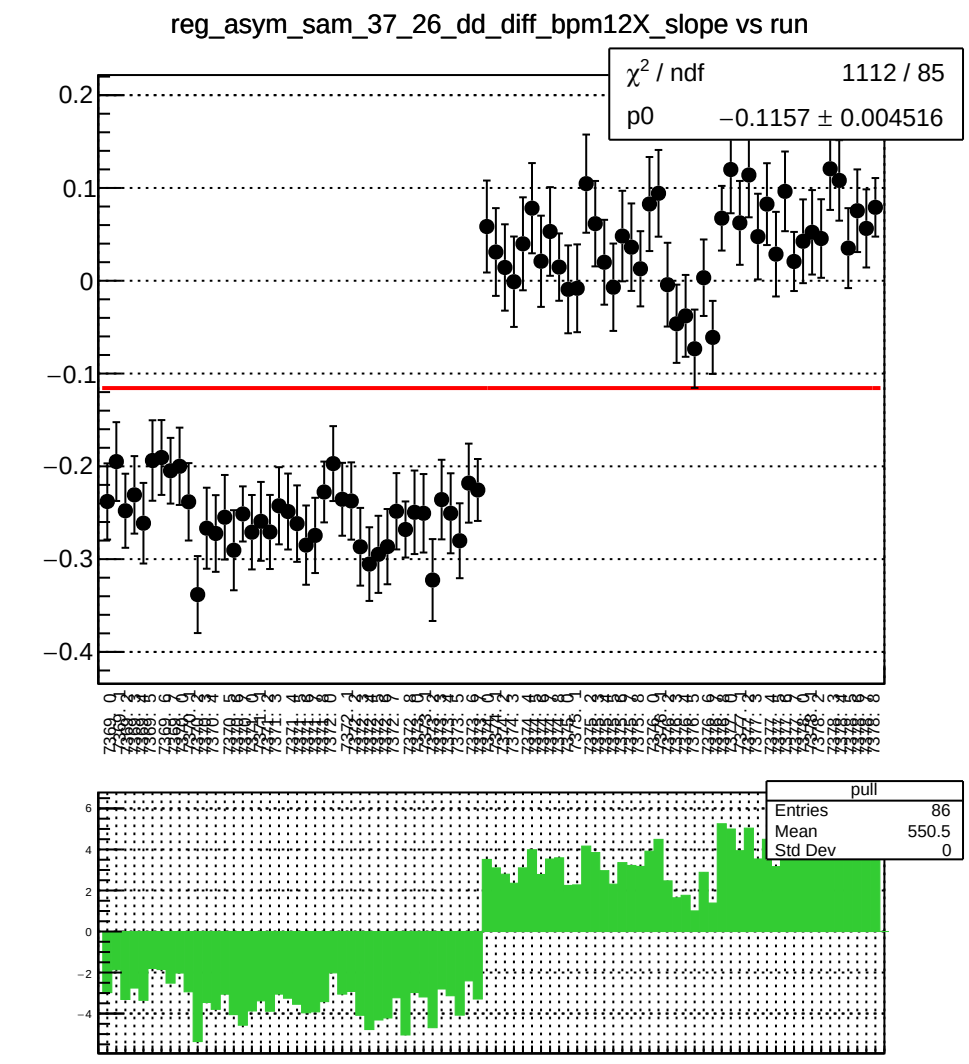

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1107 / 85
p0 −9.485 ± 0.08669
pull
Entries 86
Mean 60.65
Std Dev 44.22
pull1D
Entries 86
Mean −0.4244
Std Dev 2.236

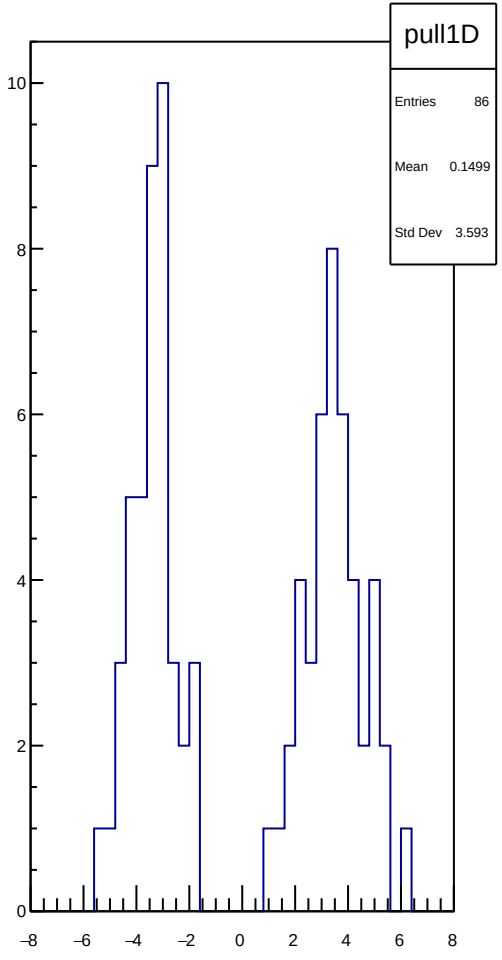

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 493.6 / 85
p0 4.809 ± 0.09461
pull
Entries 86
Mean −805.4
Std Dev 0

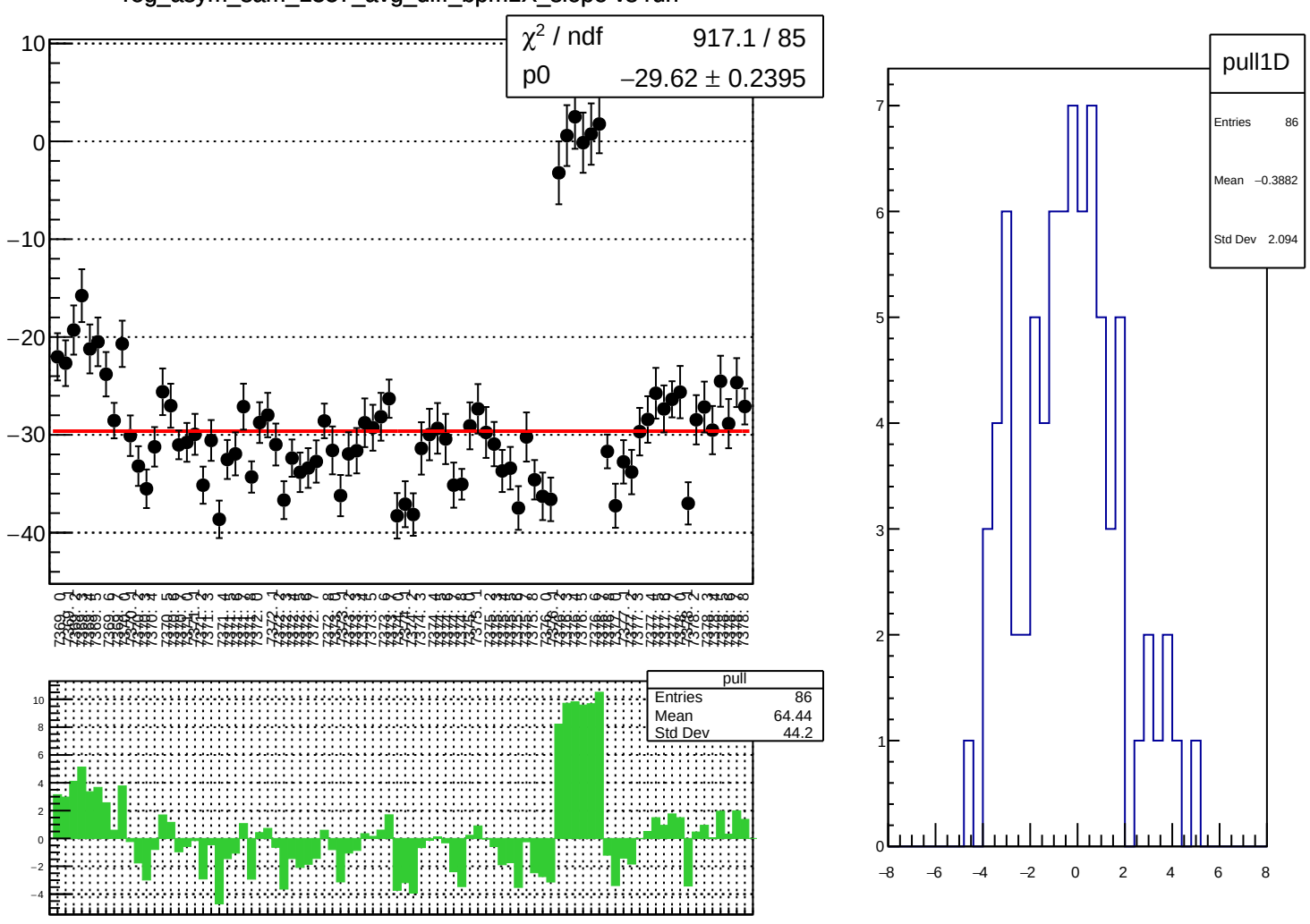

pull1D
Entries 86
Mean 0.02162
Std Dev 2.396

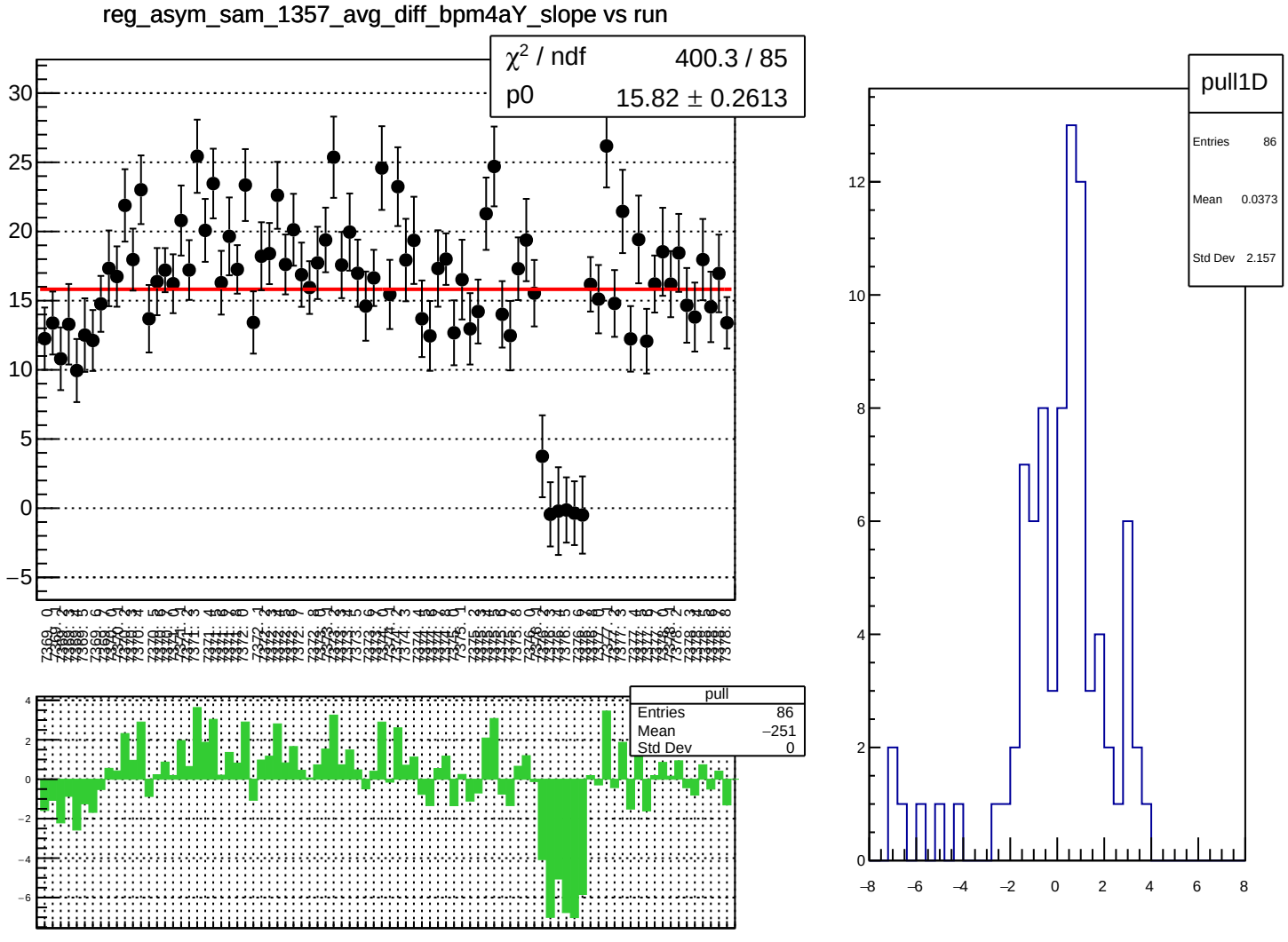

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 889 / 85
p0 −0.1987 ± 0.08996
pull
Entries 86
Mean 84.45
Std Dev 0
pull1D
Entries 86
Mean 0.2593
Std Dev 2.203

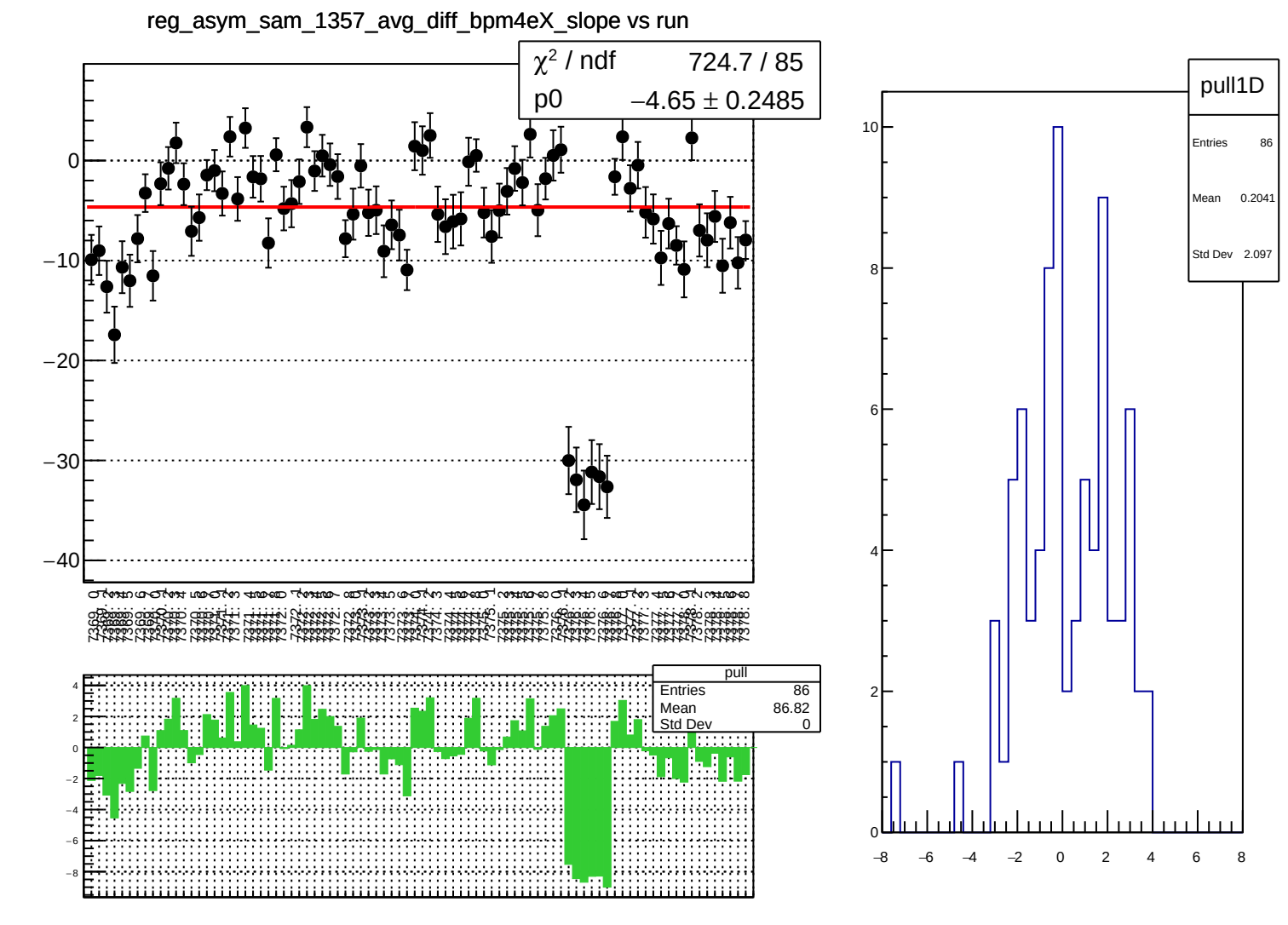

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 492.3 / 85
p0 9.259 ± 0.1007
pull
Entries 86
Mean 913.9
Std Dev 0
pull1D
Entries 86
Mean 0.03322
Std Dev 2.392

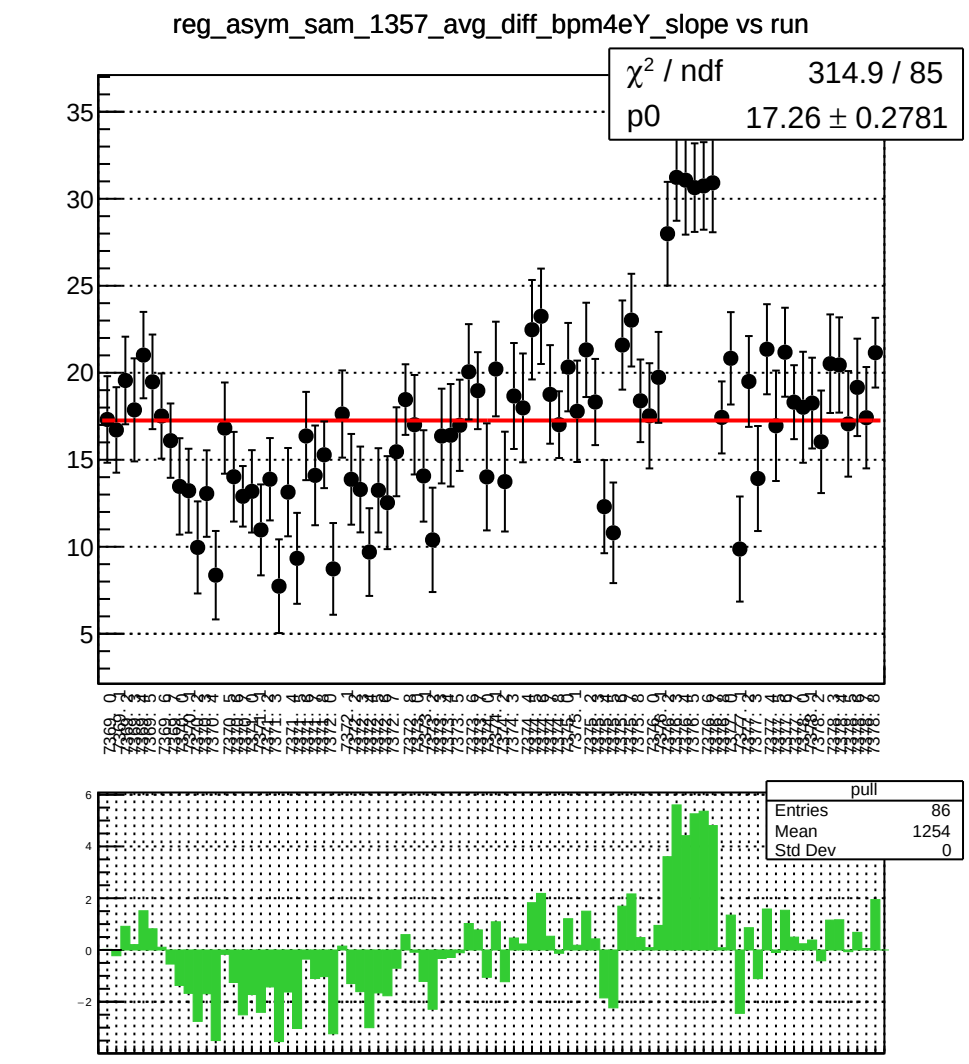

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1112 / 85
p0 −0.1157 ± 0.004516
pull
Entries 86
Mean 550.5
Std Dev 0

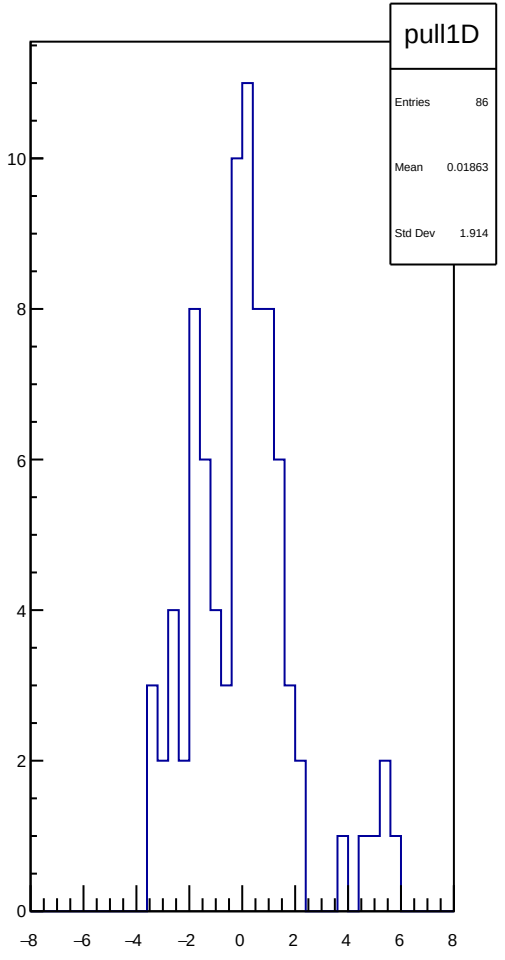

pull1D
Entries 86
Mean 0.1499
Std Dev 3.593

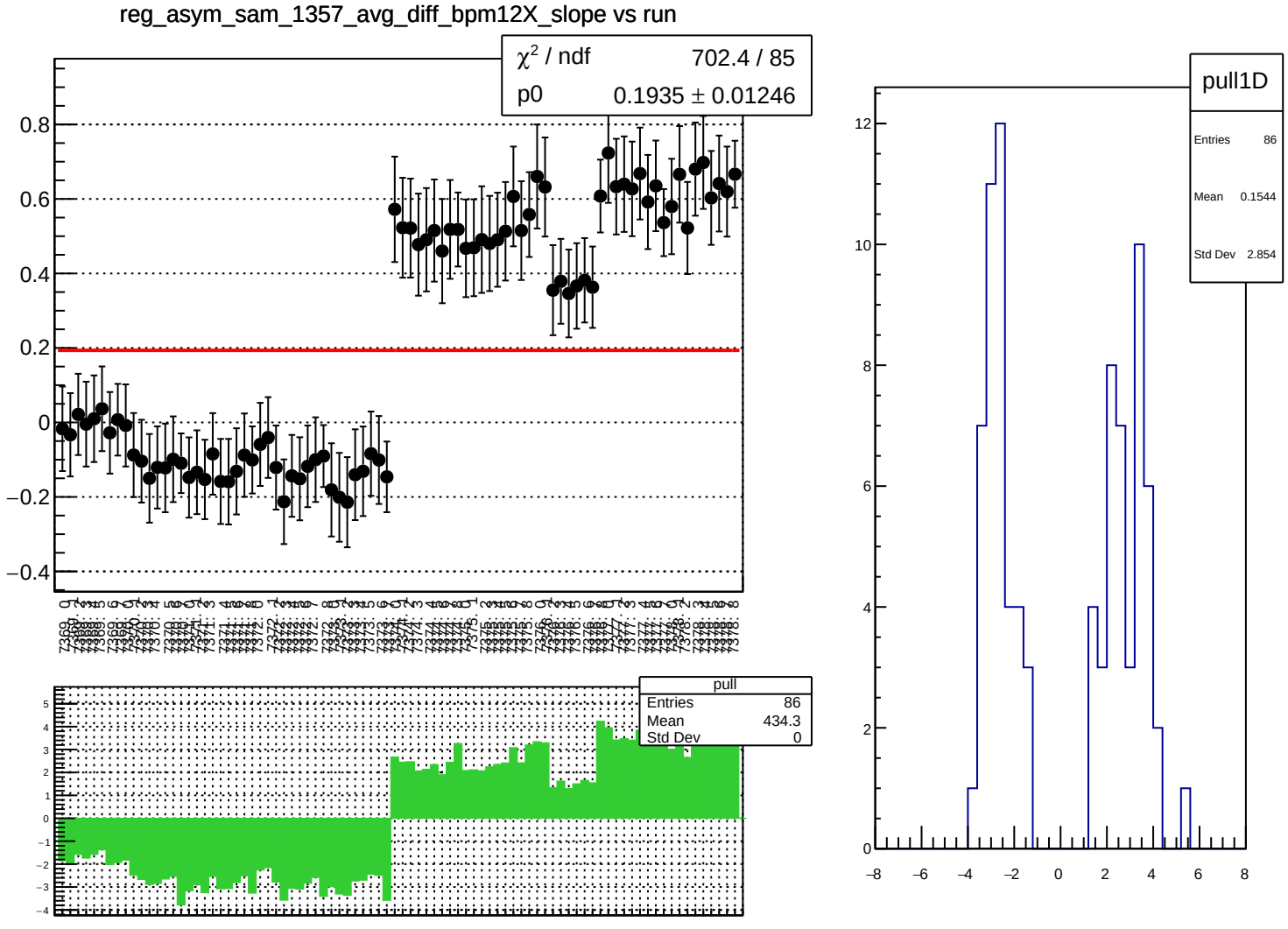

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 917.1 / 85
p0 −29.62 ± 0.2395
pull
Entries 86
Mean 64.44
Std Dev 44.2
pull1D
Entries 86
Mean −0.3882
Std Dev 2.094

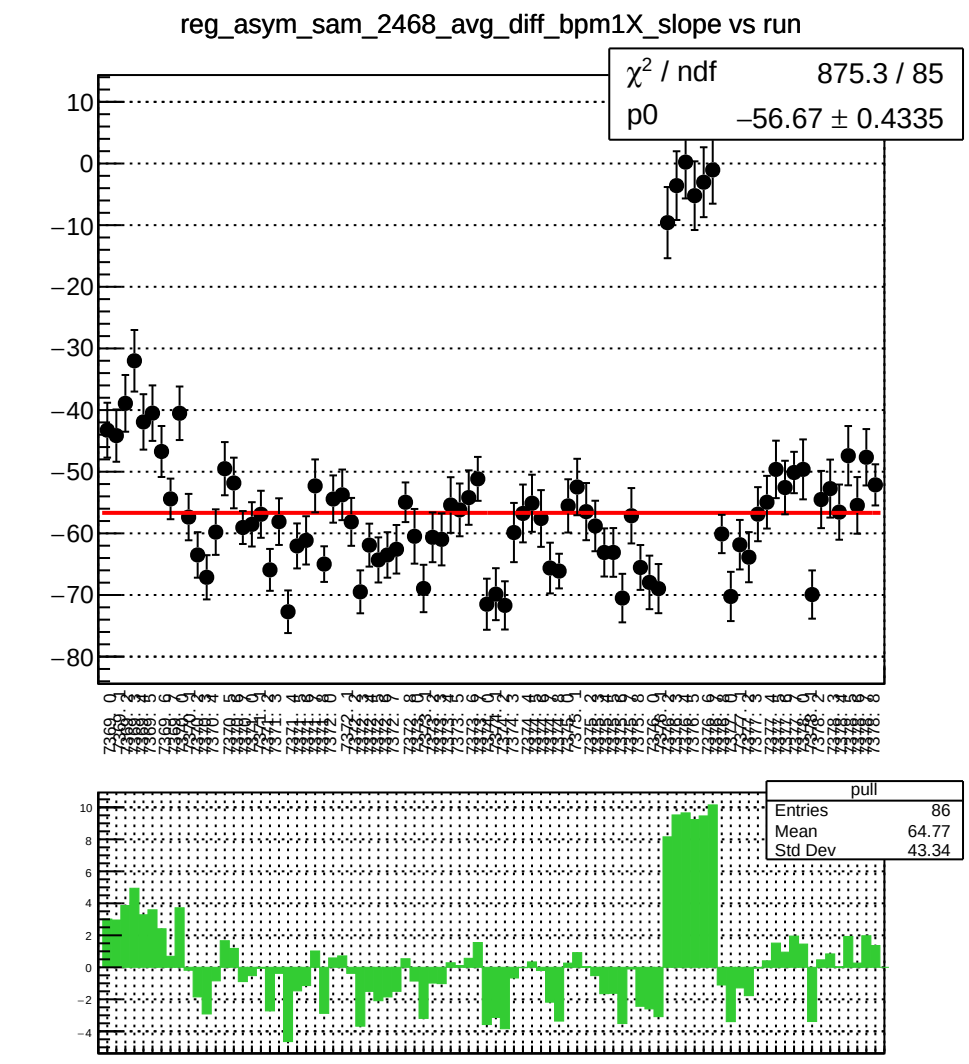

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 400.3 / 85
p0 15.82 ± 0.2613
pull
Entries 86
Mean −251
Std Dev 0
pull1D
Entries 86
Mean 0.0373
Std Dev 2.157

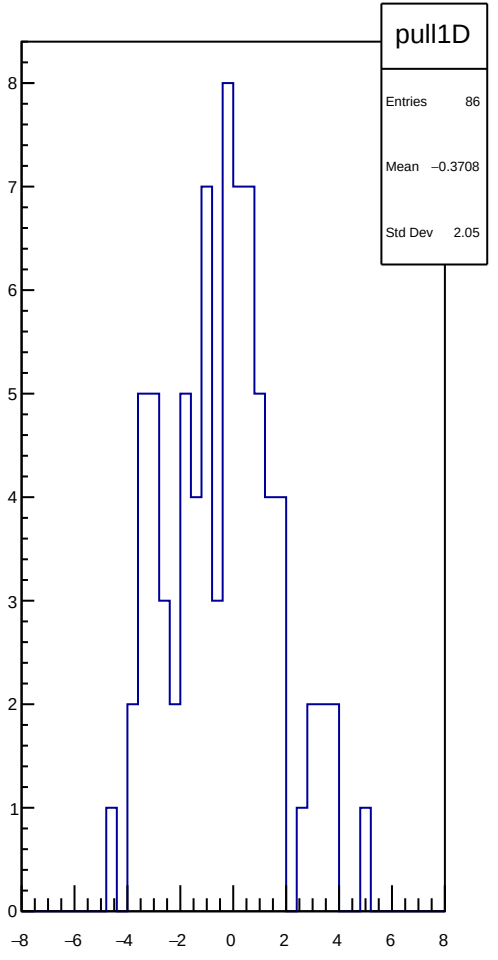

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 724.7 / 85
p0 −4.65 ± 0.2485
pull
Entries 86
Mean 86.82
Std Dev 0
pull1D
Entries 86
Mean 0.2041
Std Dev 2.097

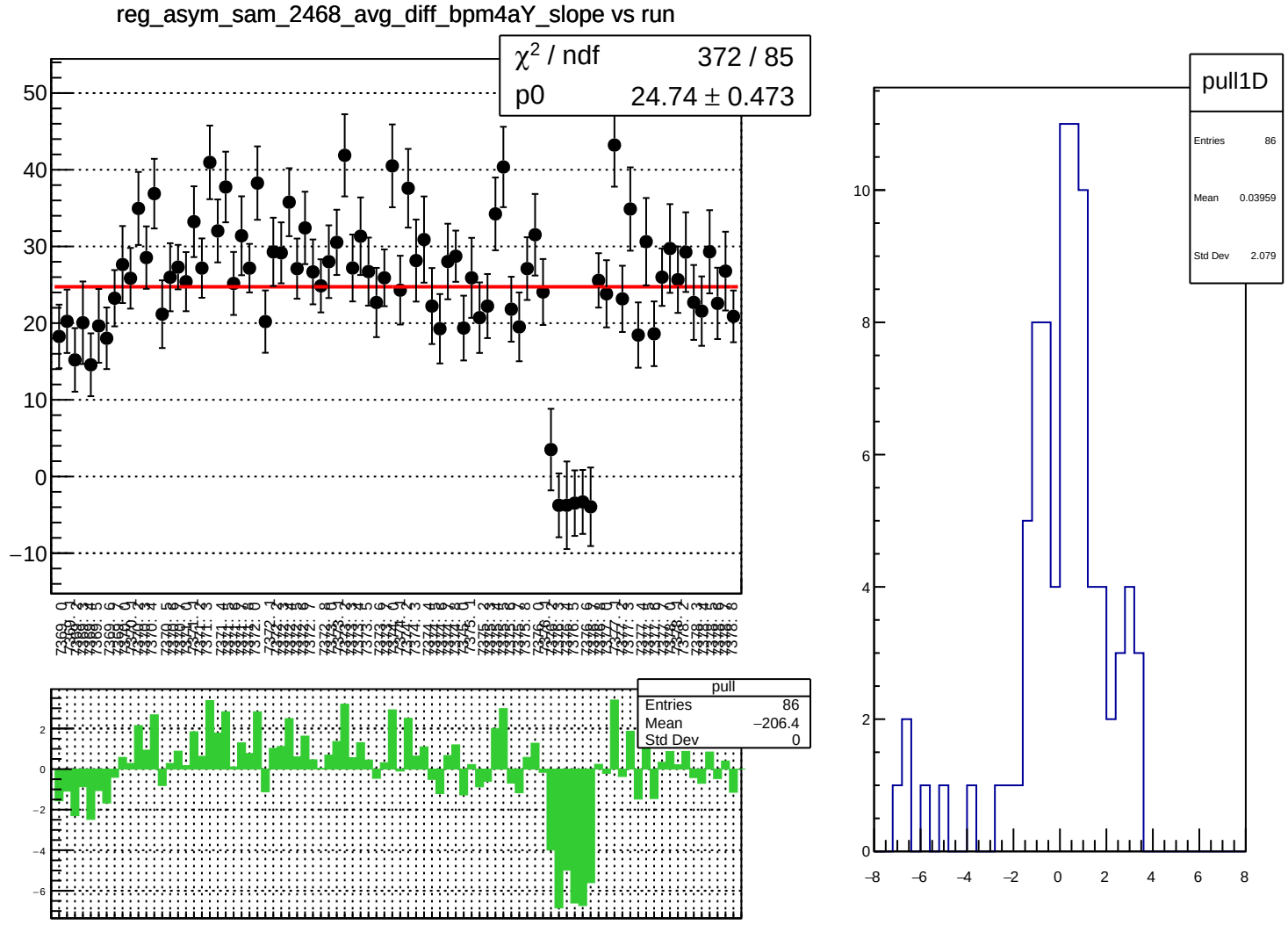

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 314.9 / 85
p0 17.26 ± 0.2781
pull
Entries 86
Mean 1254
Std Dev 0

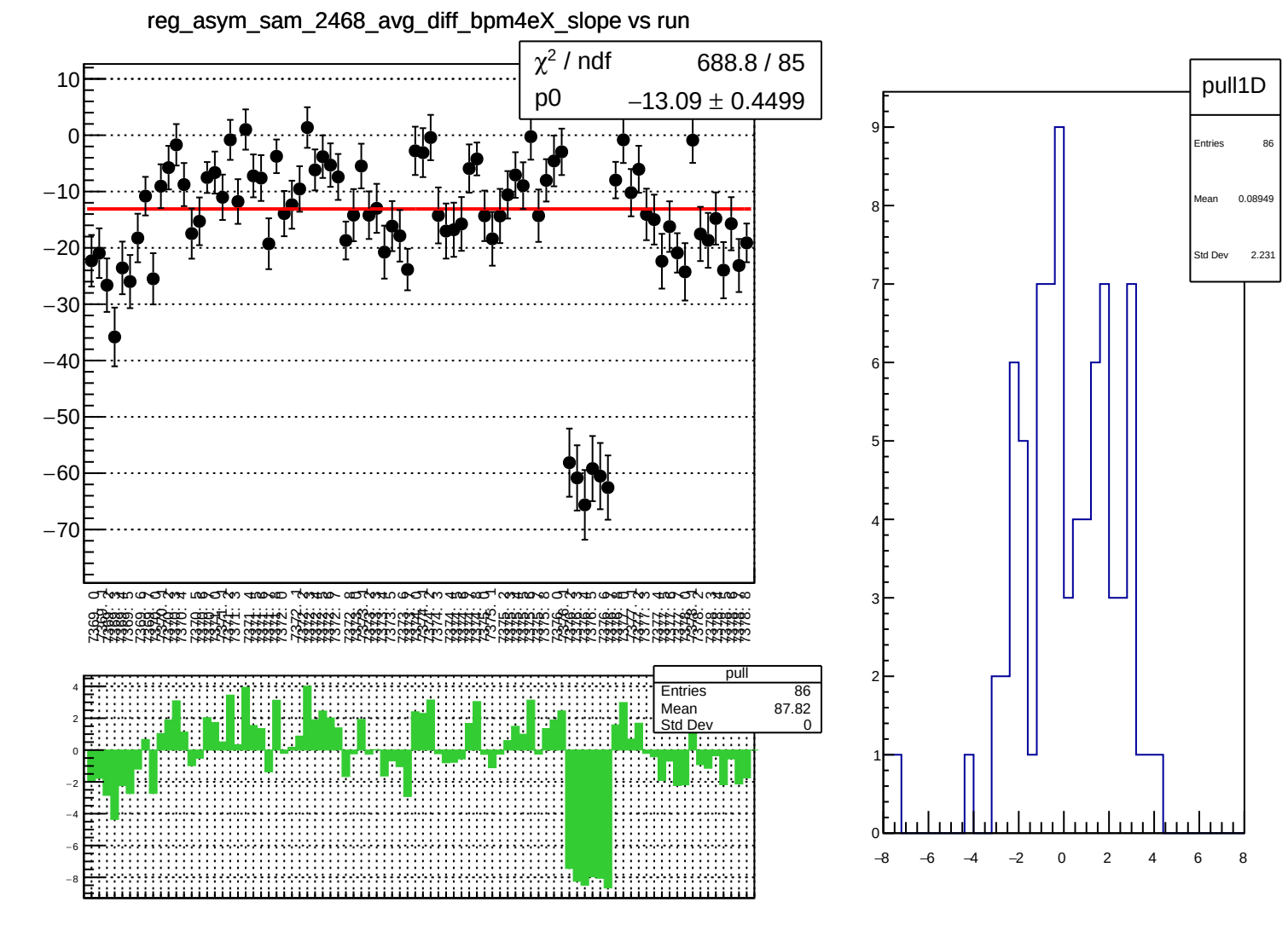

pull1D
Entries 86
Mean 0.01863
Std Dev 1.914

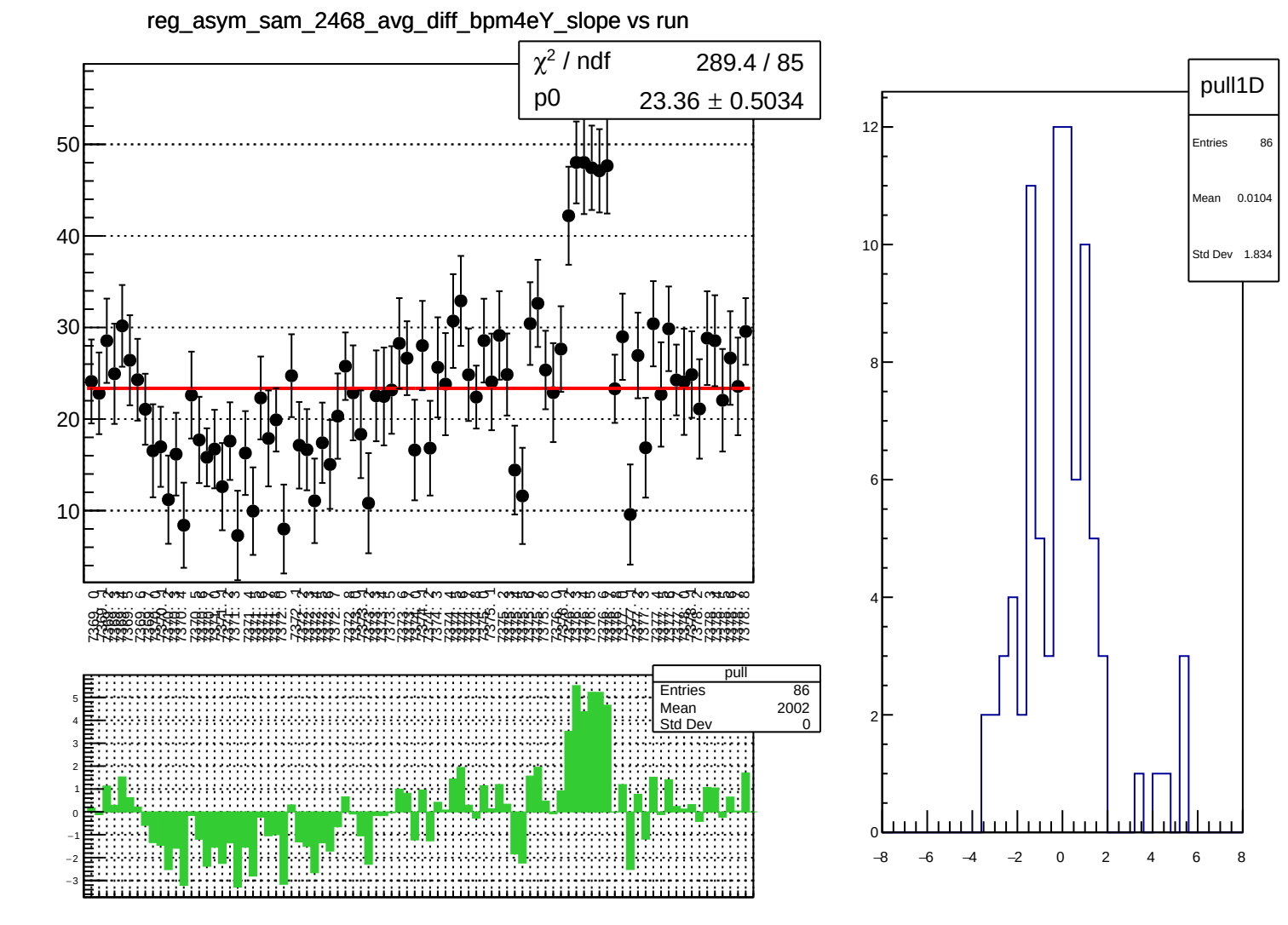

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 702.4 / 85
p0 0.1935 ± 0.01246
pull
Entries 86
Mean 434.3
Std Dev 0
pull1D
Entries 86
Mean 0.1544
Std Dev 2.854

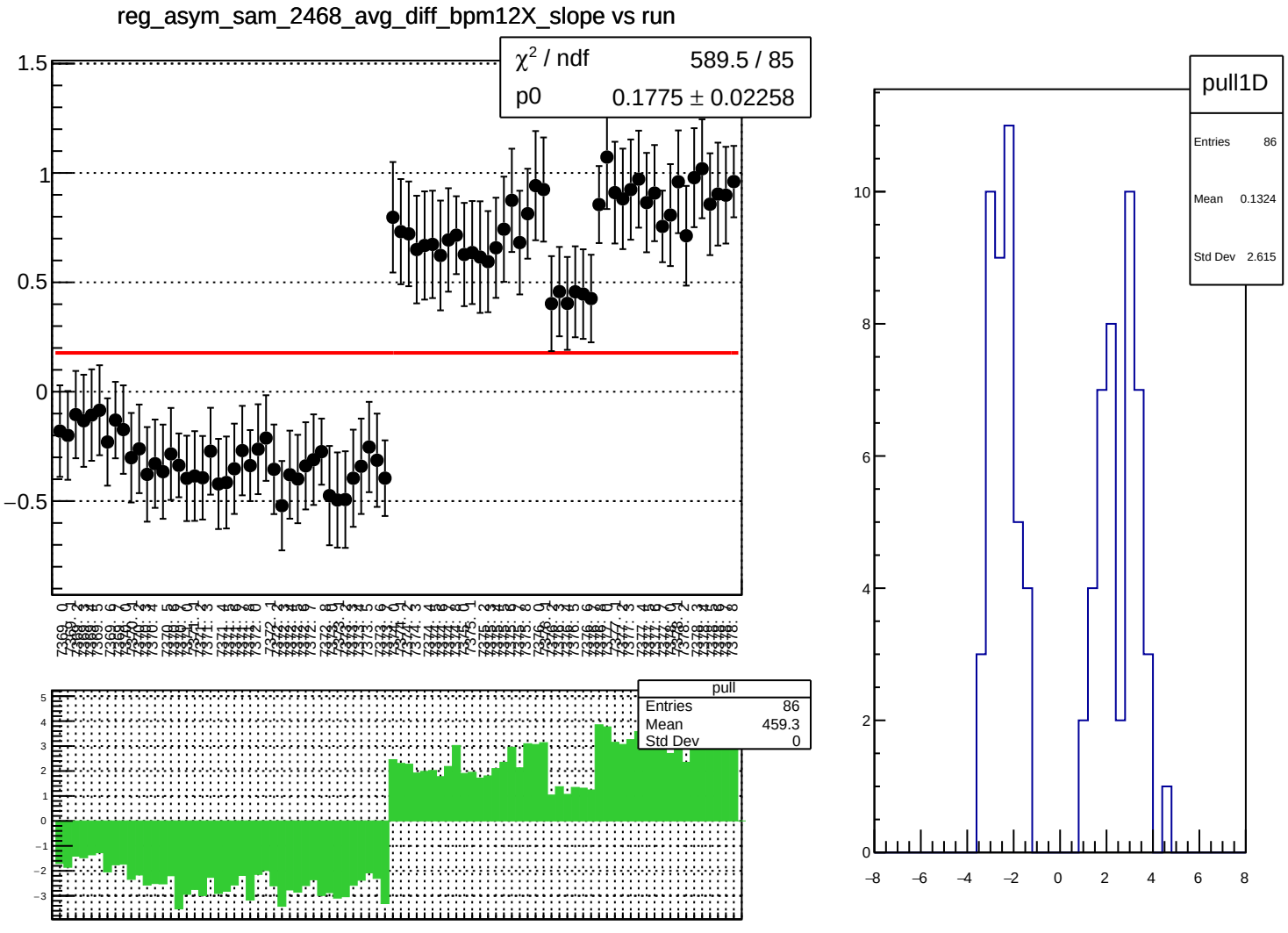

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 875.3 / 85
p0 −56.67 ± 0.4335
pull
Entries 86
Mean 64.77
Std Dev 43.34

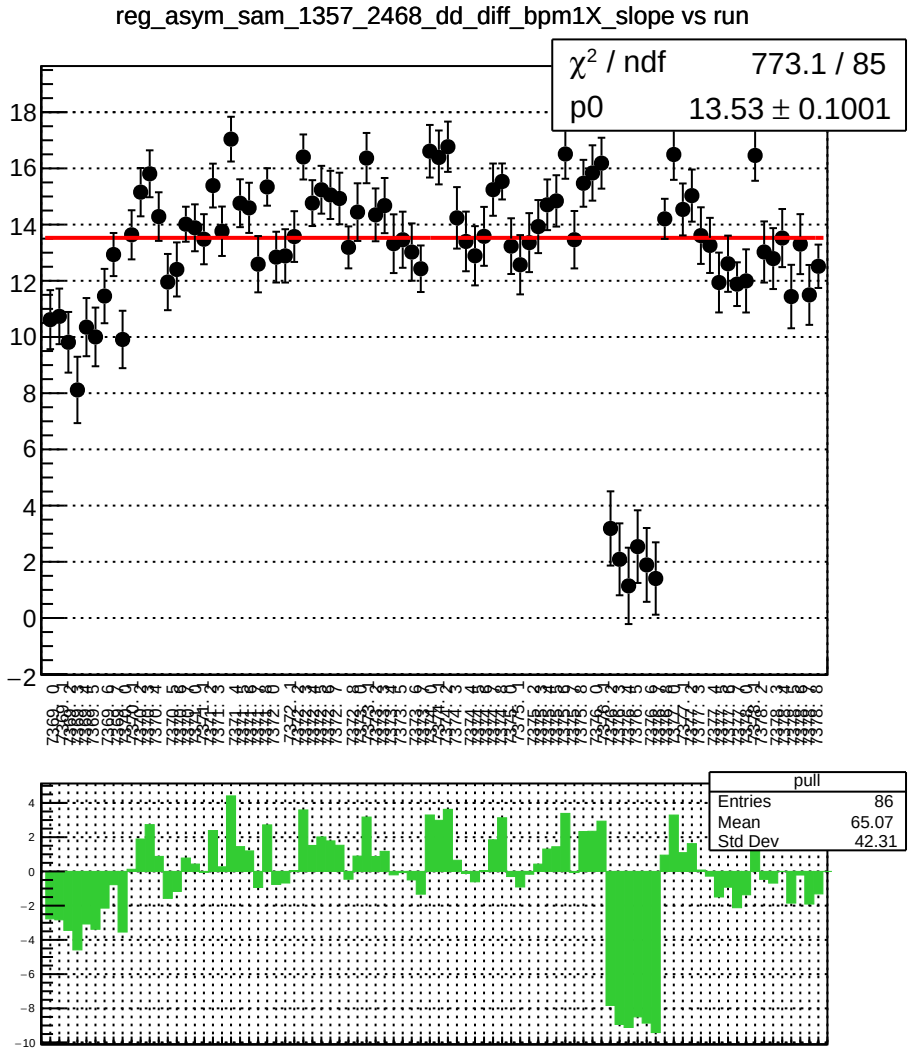

pull1D
Entries 86
Mean −0.3708
Std Dev 2.05

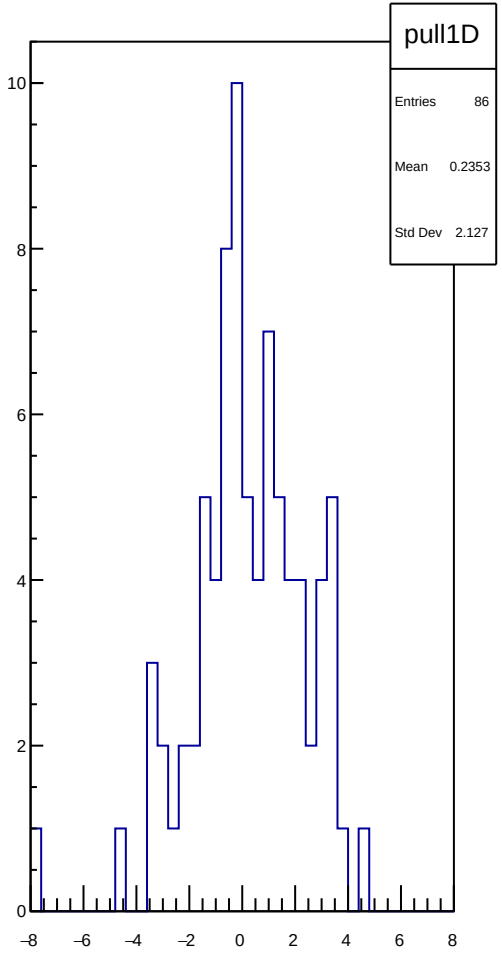

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 372 / 85
p0 24.74 ± 0.473
pull
Entries 86
Mean −206.4
Std Dev 0
pull1D
Entries 86
Mean 0.03959
Std Dev 2.079

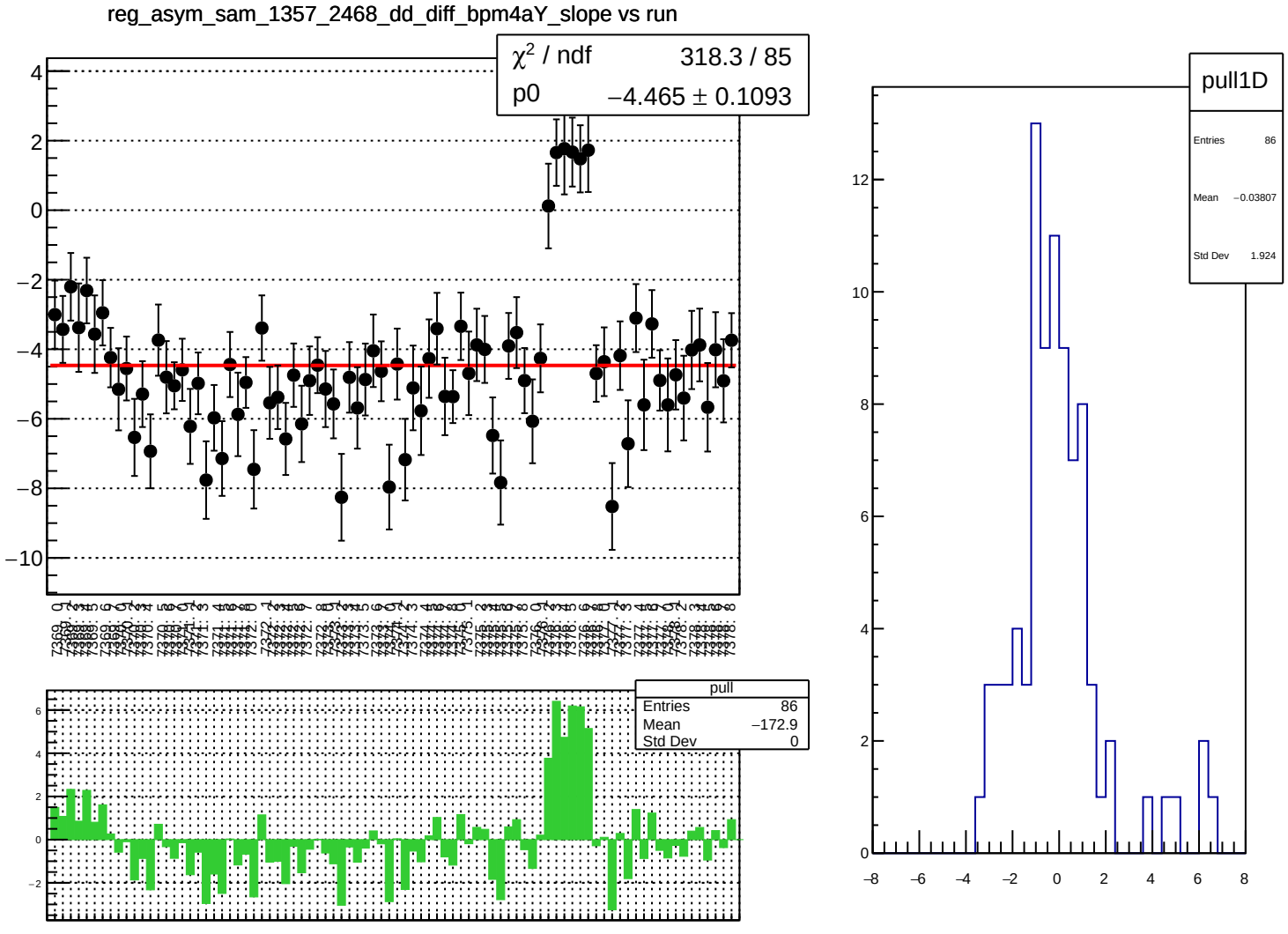

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 688.8 / 85
p0 −13.09 ± 0.4499
pull
Entries 86
Mean 87.82
Std Dev 0
pull1D
Entries 86
Mean 0.08949
Std Dev 2.231

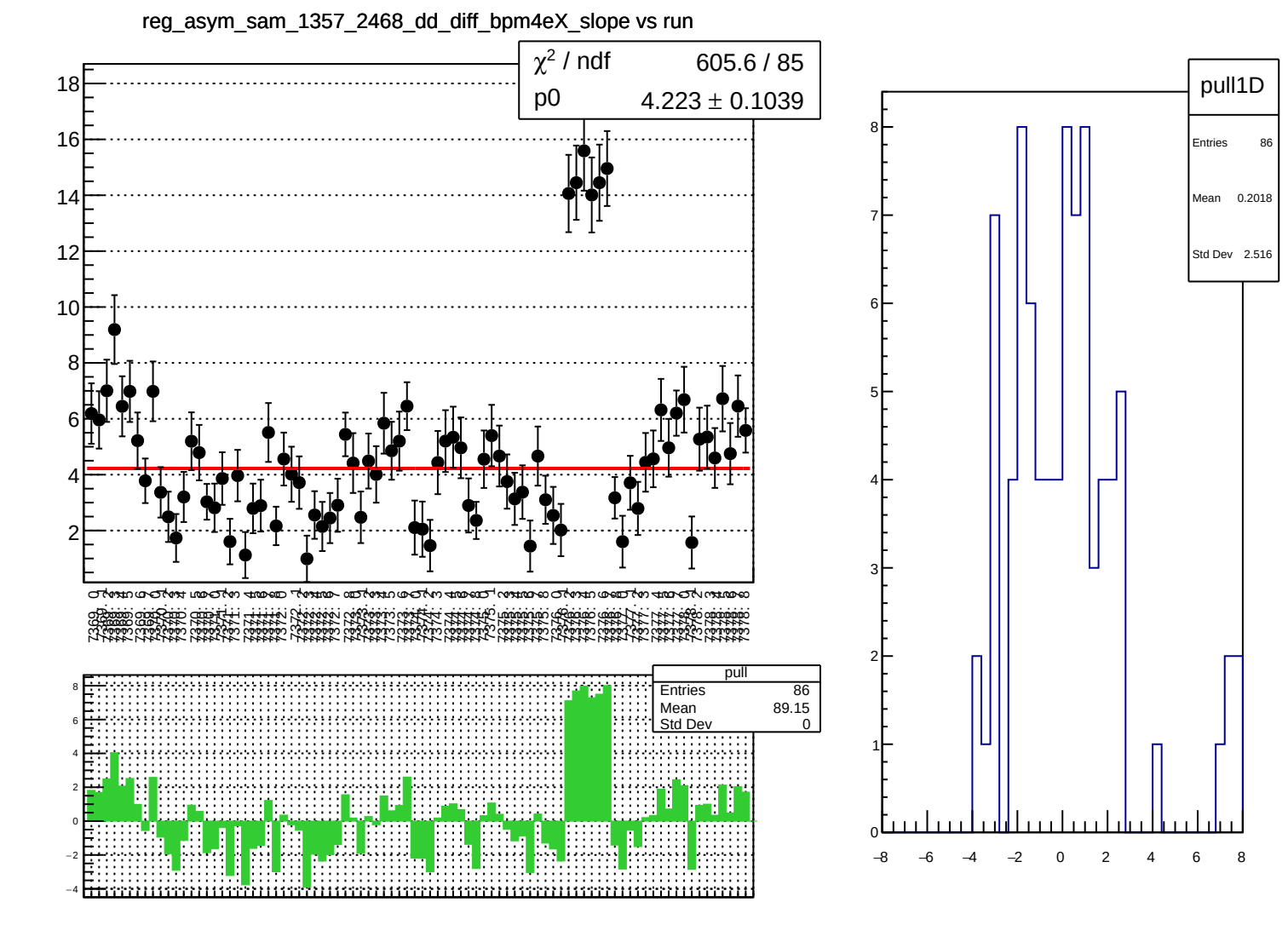

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 289.4 / 85
p0 23.36 ± 0.5034
pull
Entries 86
Mean 2002
Std Dev 0
pull1D
Entries 86
Mean 0.0104
Std Dev 1.834

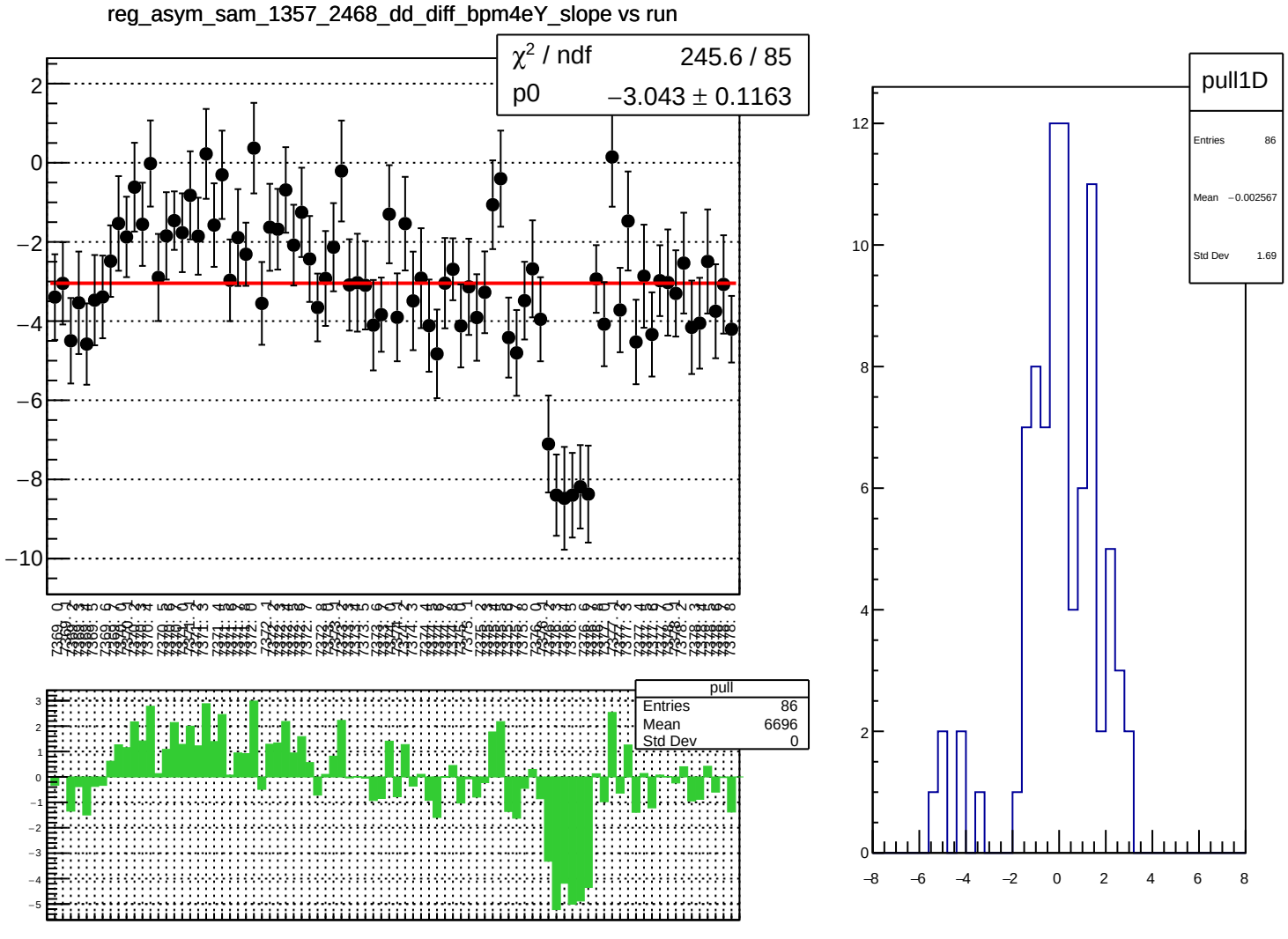

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 589.5 / 85
p0 0.1775 ± 0.02258
pull
Entries 86
Mean 459.3
Std Dev 0
pull1D
Entries 86
Mean 0.1324
Std Dev 2.615

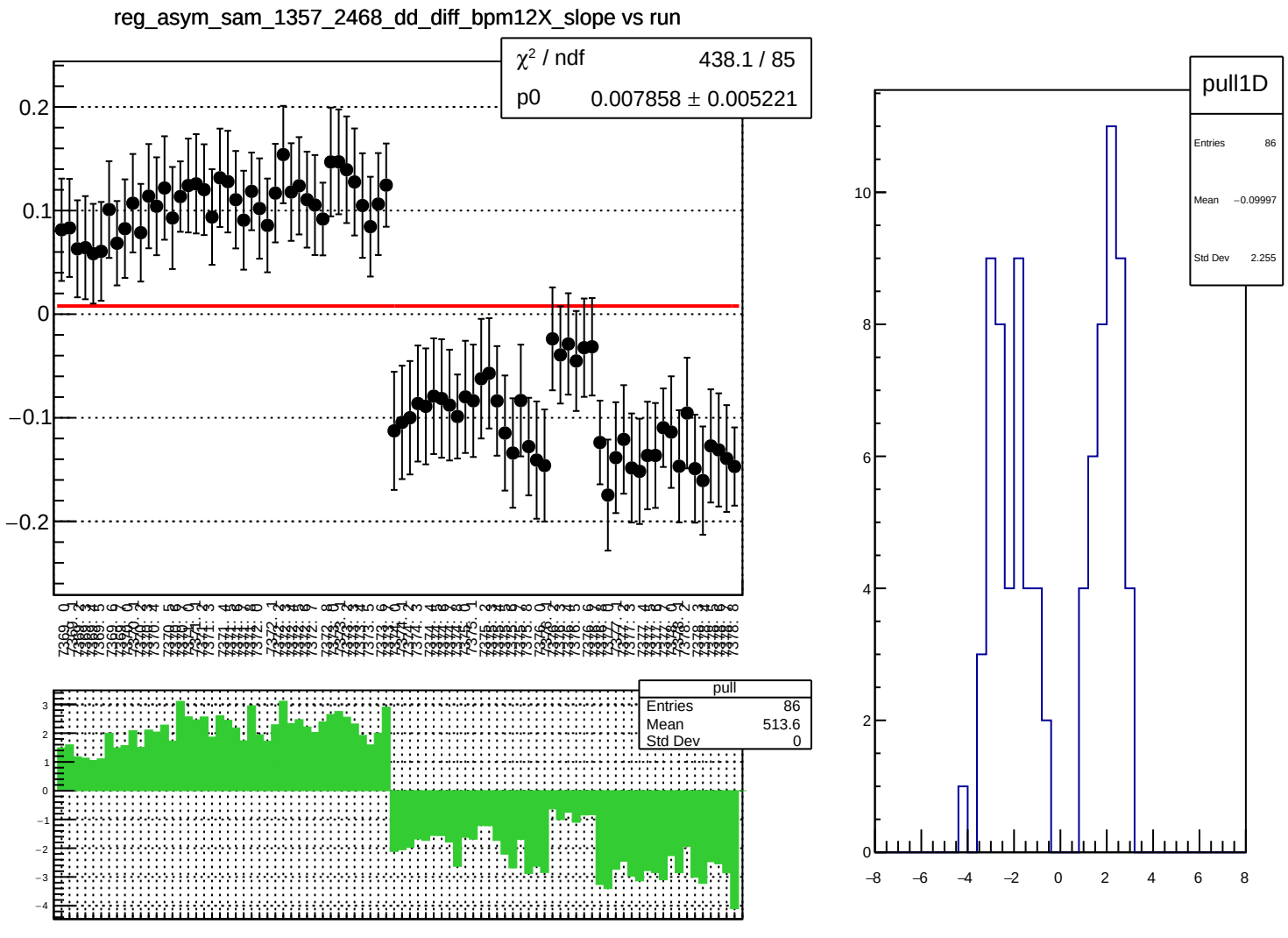

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 773.1 / 85
p0 13.53 ± 0.1001
pull
Entries 86
Mean 65.07
Std Dev 42.31

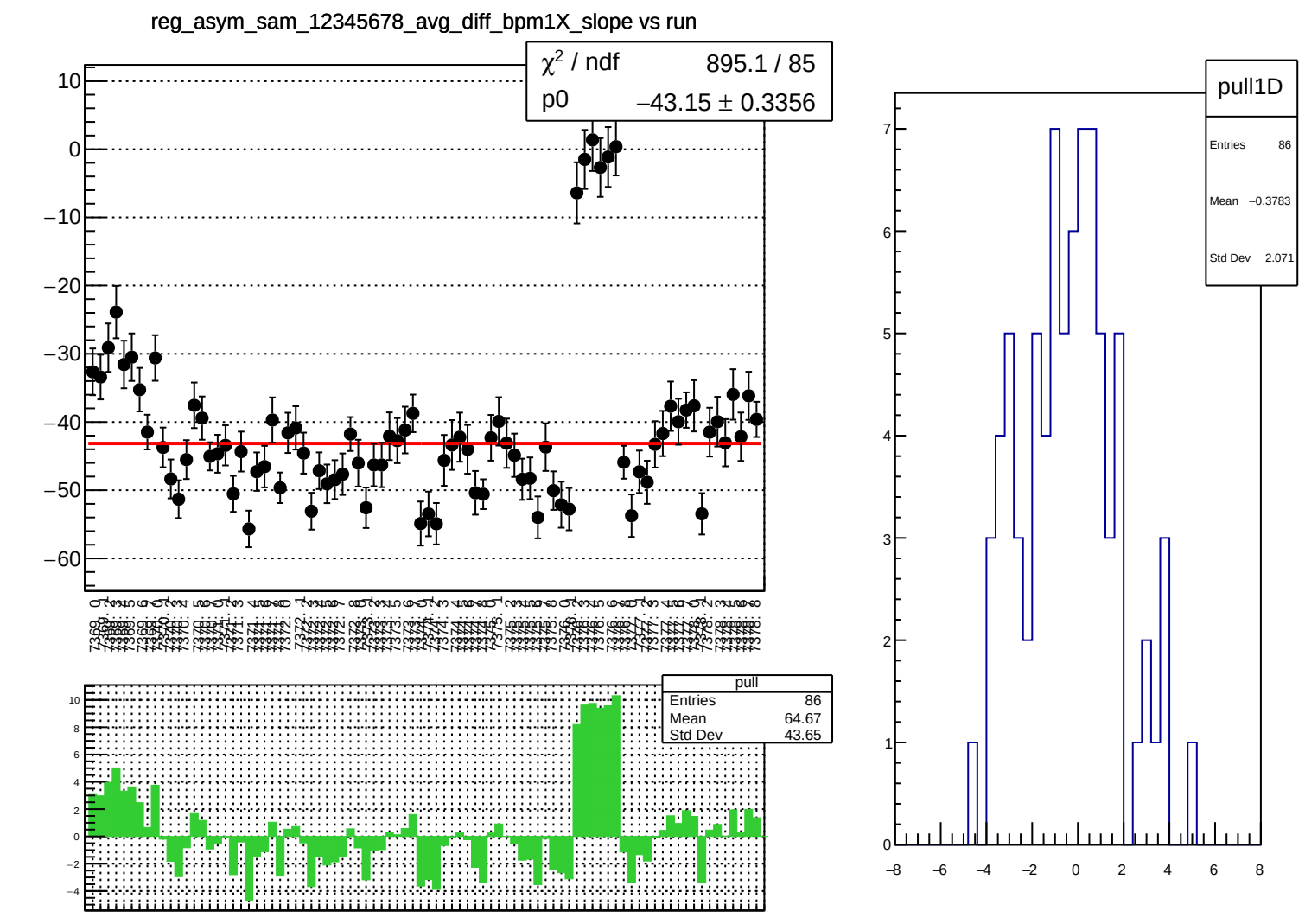

pull1D
Entries 86
Mean 0.2353
Std Dev 2.127

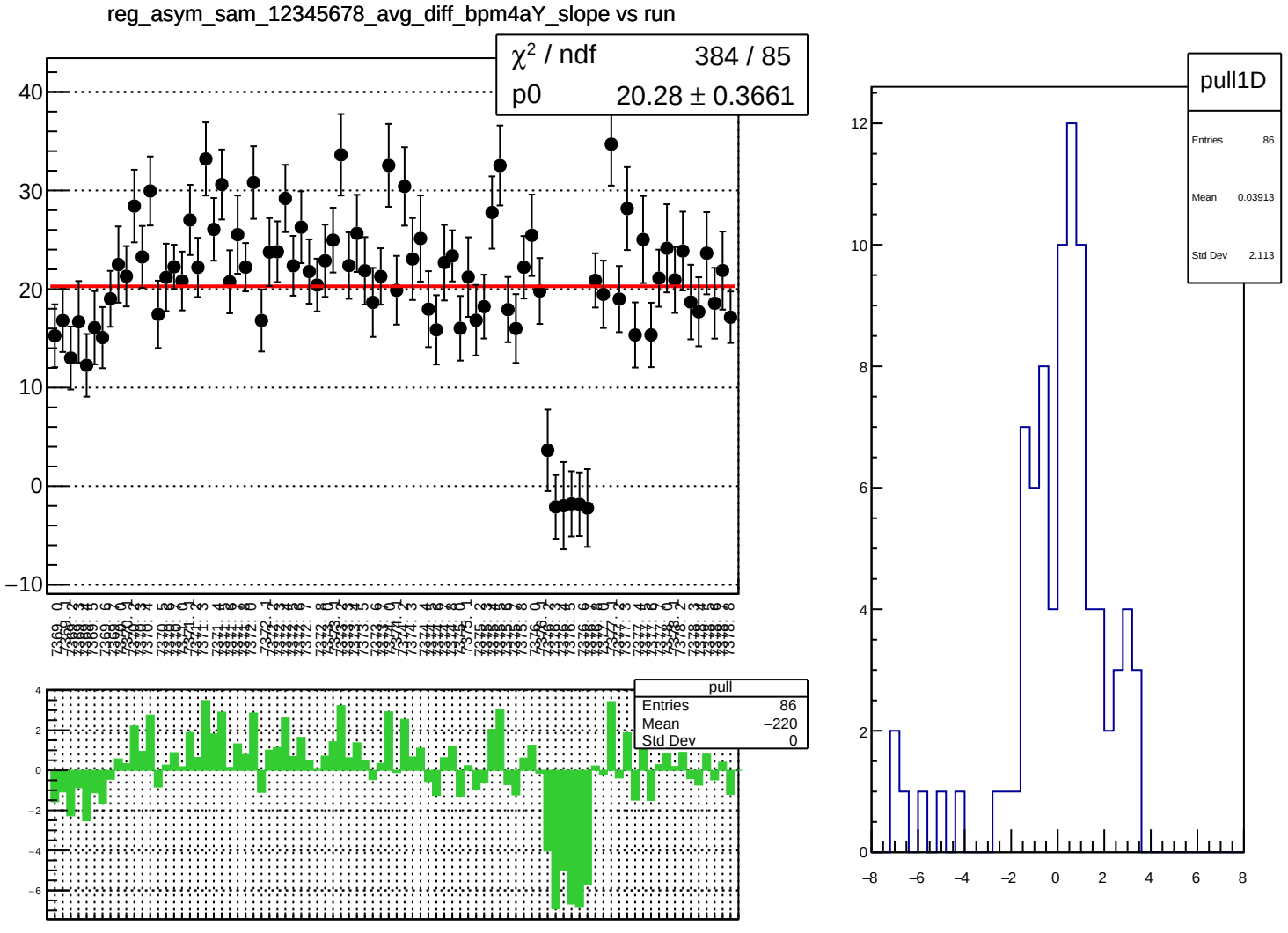

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 318.3 / 85
p0 −4.465 ± 0.1093
pull
Entries 86
Mean −172.9
Std Dev 0
pull1D
Entries 86
Mean −0.03807
Std Dev 1.924

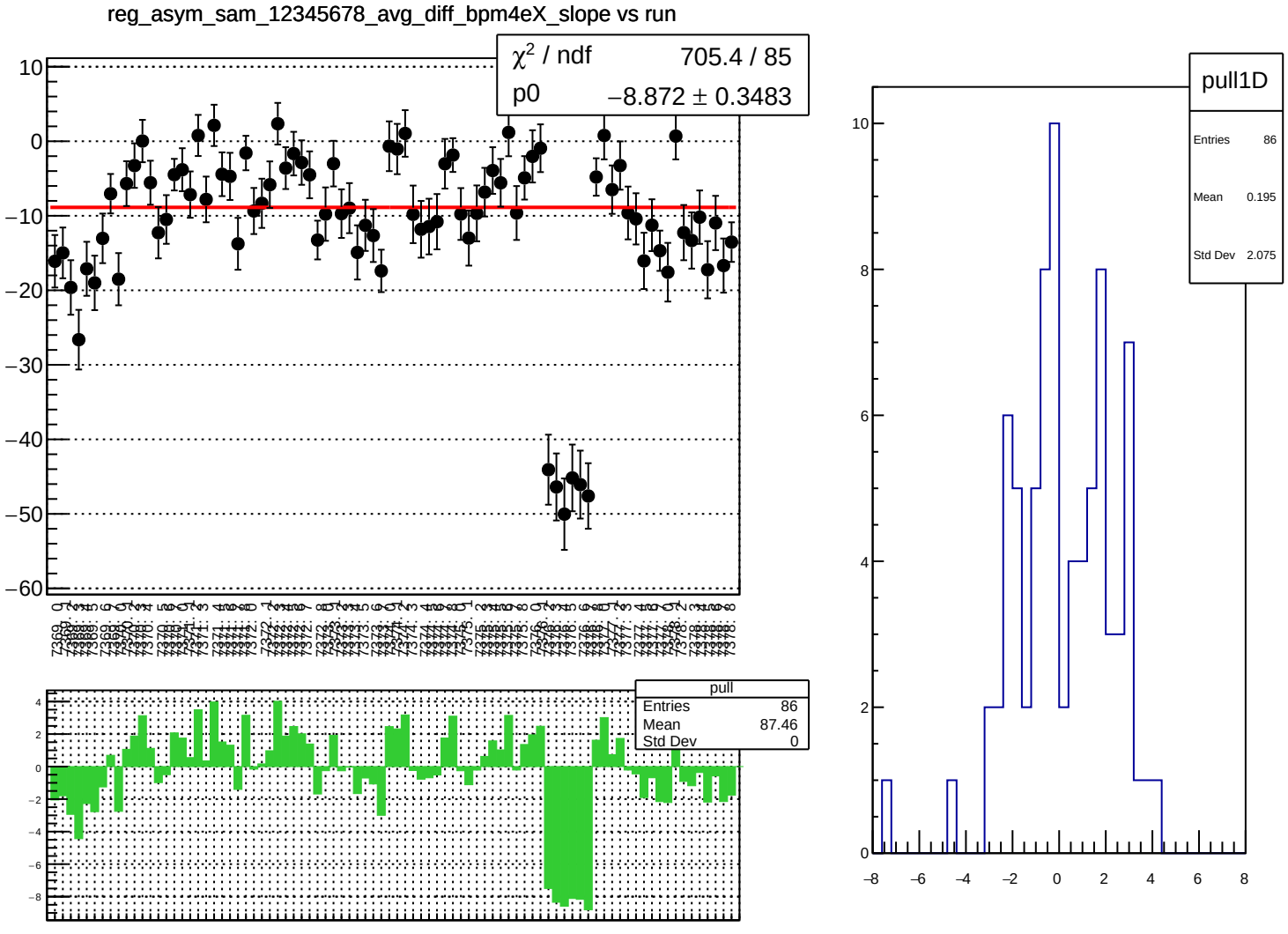

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 605.6 / 85
p0 4.223 ± 0.1039
pull
Entries 86
Mean 89.15
Std Dev 0
pull1D
Entries 86
Mean 0.2018
Std Dev 2.516

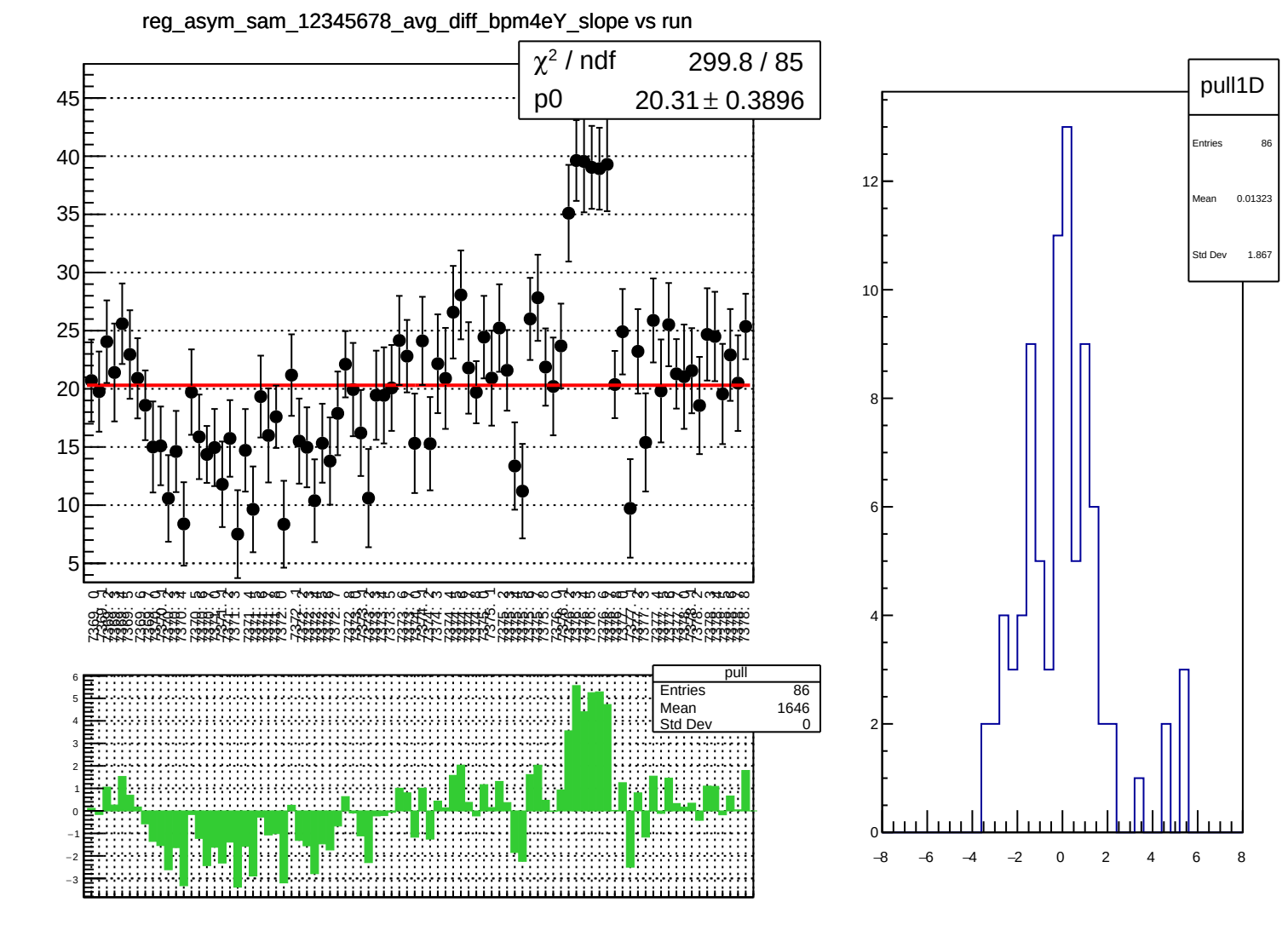

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 245.6 / 85
p0 −3.043 ± 0.1163
pull
Entries 86
Mean 6696
Std Dev 0
pull1D
Entries 86
Mean −0.002567
Std Dev 1.69

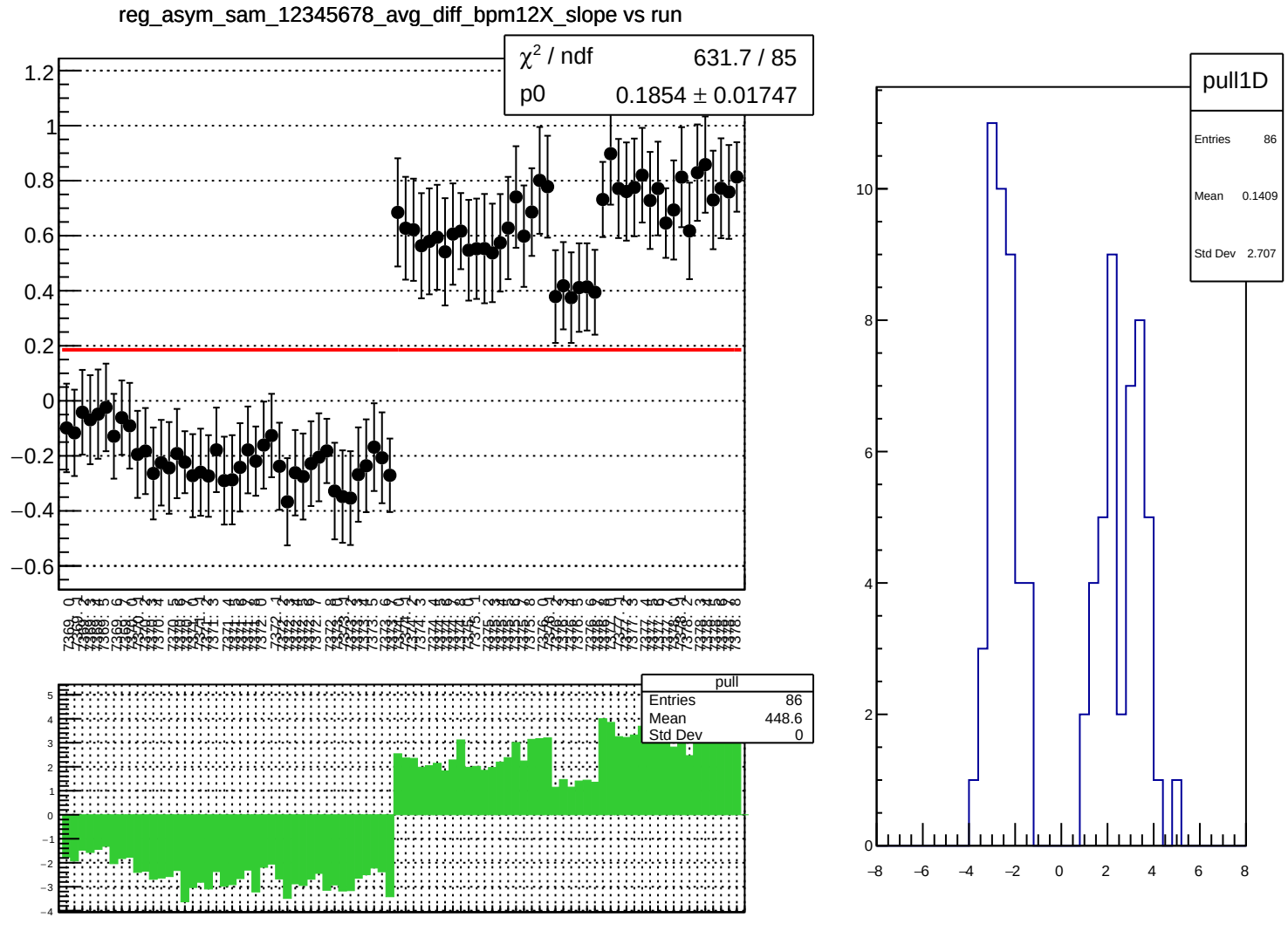

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 438.1 / 85
p0 0.007858 ± 0.005221
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean 513.6
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean −0.09997
Std Dev 2.255
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

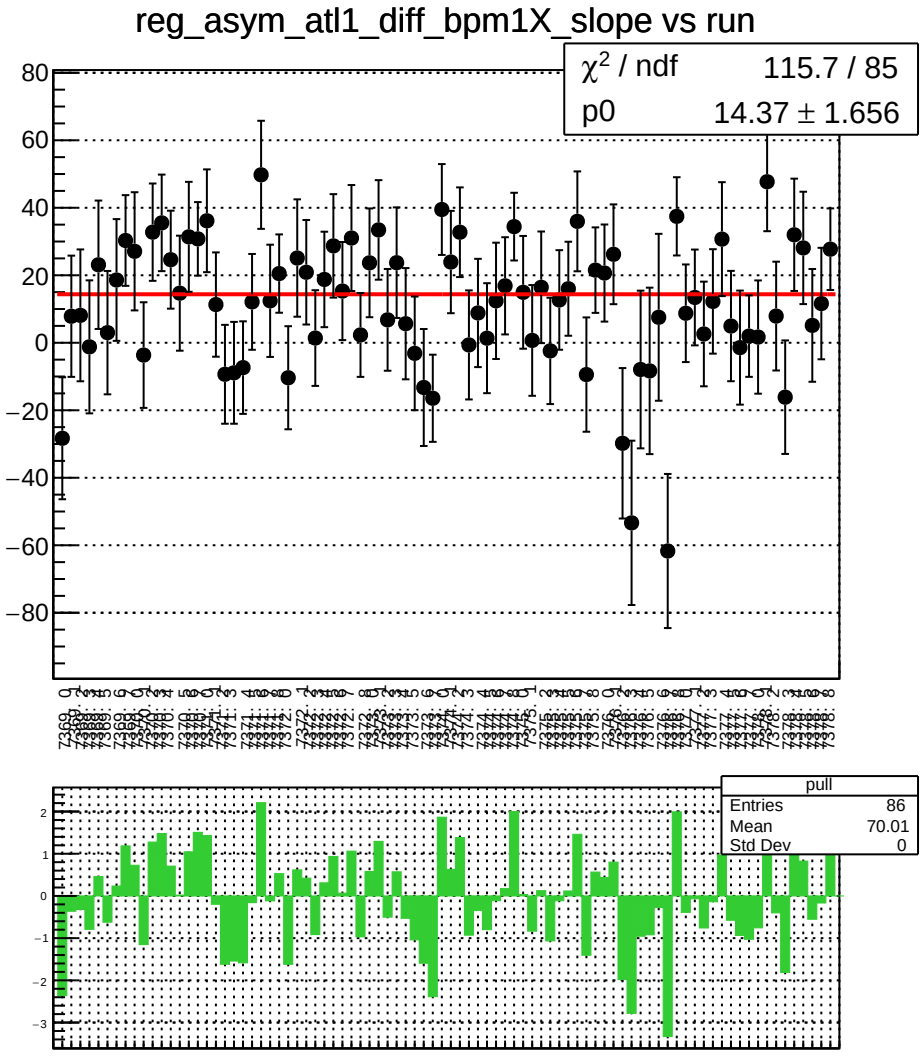

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 895.1 / 85
p0 −43.15 ± 0.3356
pull
Entries 86
Mean 64.67
Std Dev 43.65
pull1D
Entries 86
Mean −0.3783
Std Dev 2.071

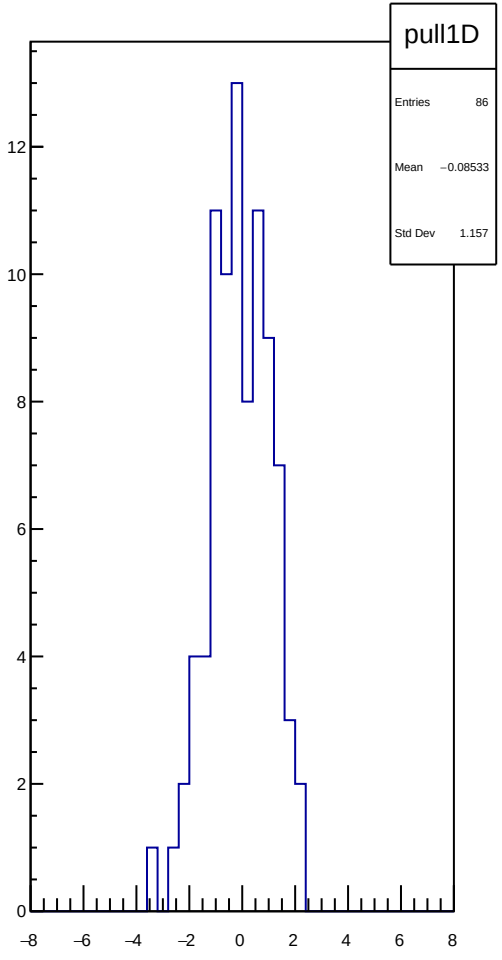

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 384 / 85
p0 20.28 ± 0.3661
pull
Entries 86
Mean −220
Std Dev 0
pull1D
Entries 86
Mean 0.03913
Std Dev 2.113

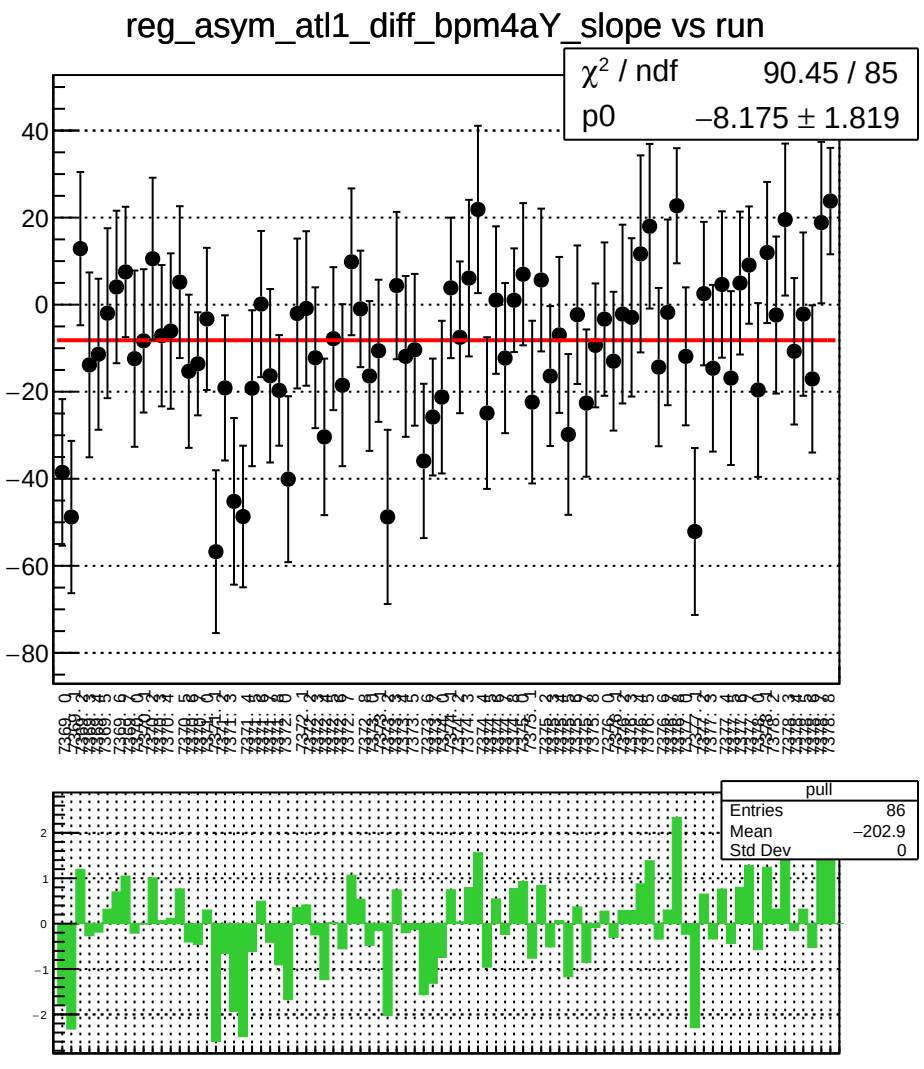

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 705.4 / 85
p0 −8.872 ± 0.3483
pull
Entries 86
Mean 87.46
Std Dev 0
pull1D
Entries 86
Mean 0.195
Std Dev 2.075

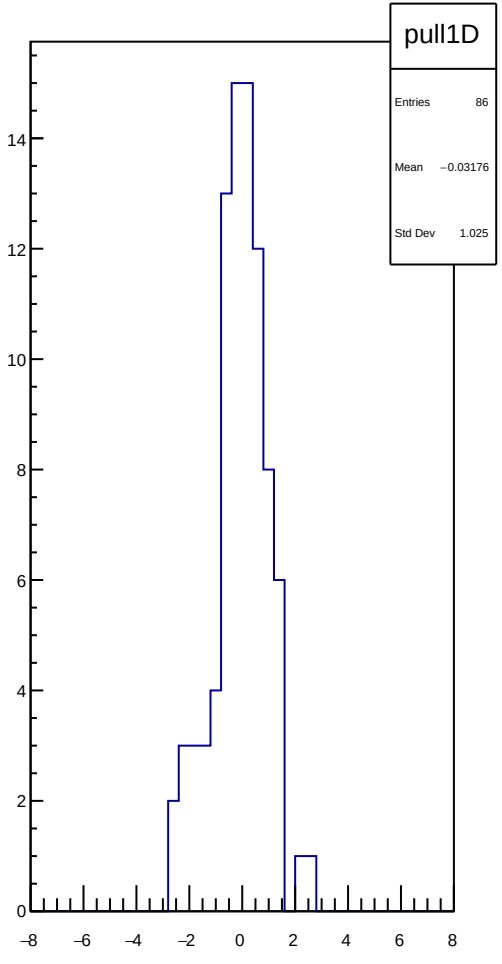

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 299.8 / 85
p0 20.31 ± 0.3896
pull
Entries 86
Mean 1646
Std Dev 0
pull1D
Entries 86
Mean 0.01323
Std Dev 1.867

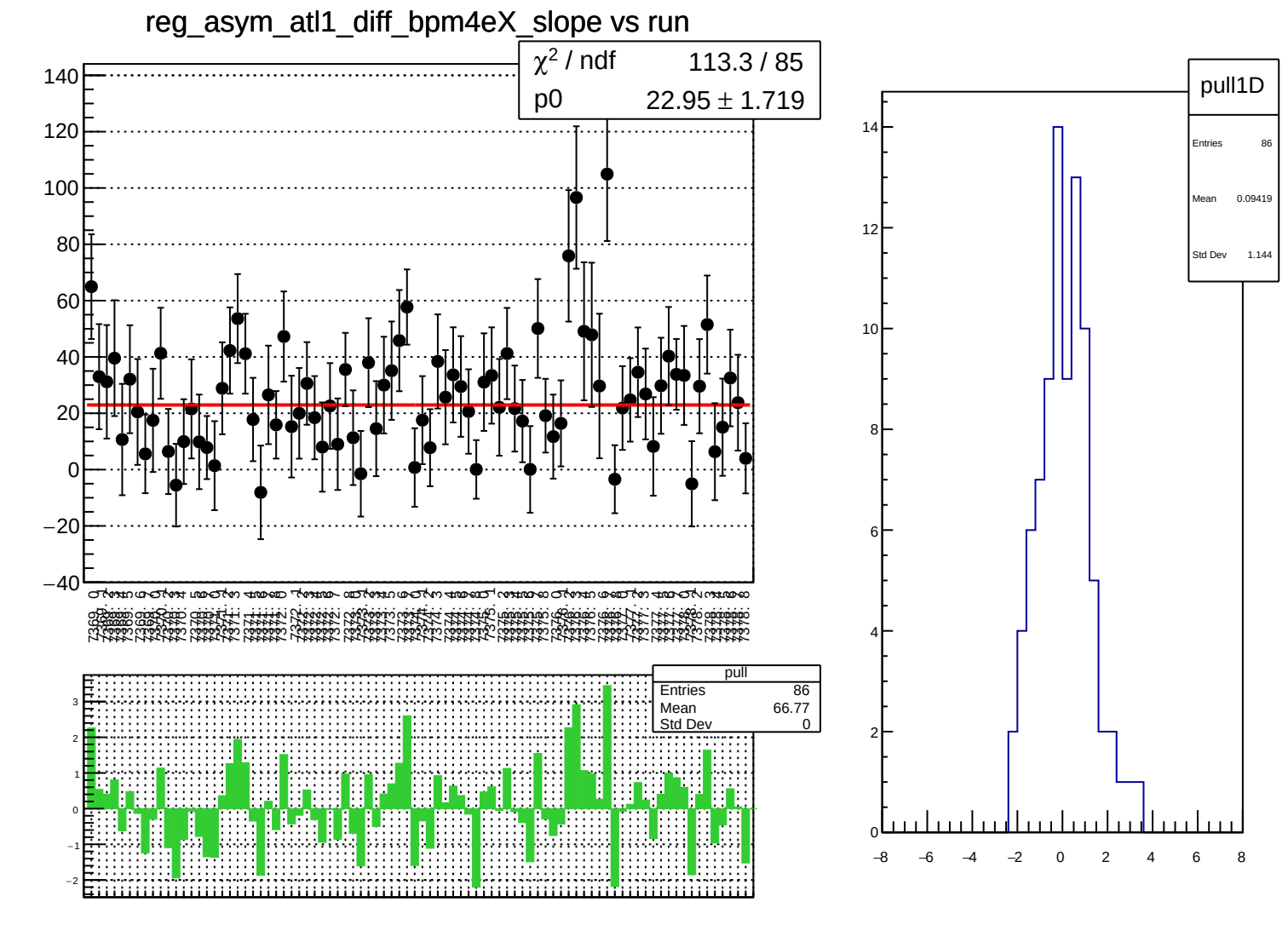

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 631.7 / 85
p0 0.1854 ± 0.01747
pull
Entries 86
Mean 448.6
Std Dev 0
pull1D
Entries 86
Mean 0.1409
Std Dev 2.707

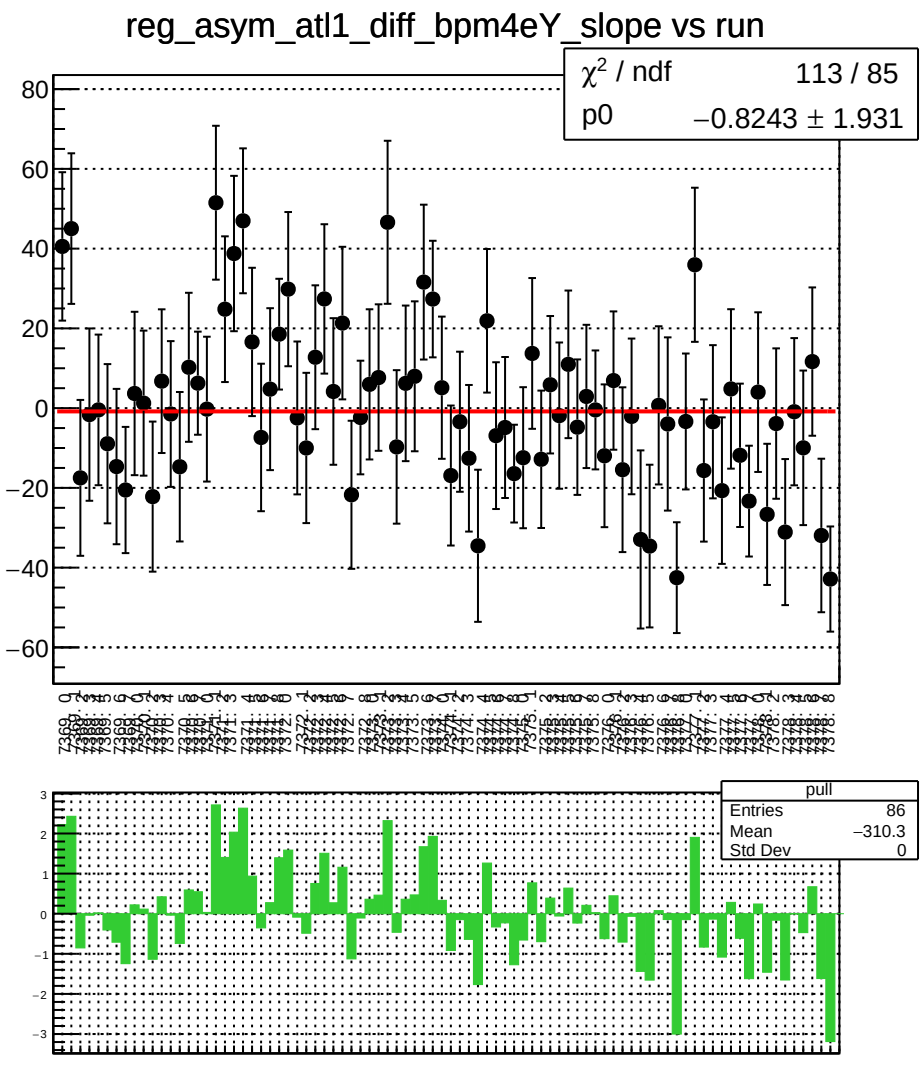

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 115.7 / 85
p0 14.37 ± 1.656
pull
Entries 86
Mean 70.01
Std Dev 0

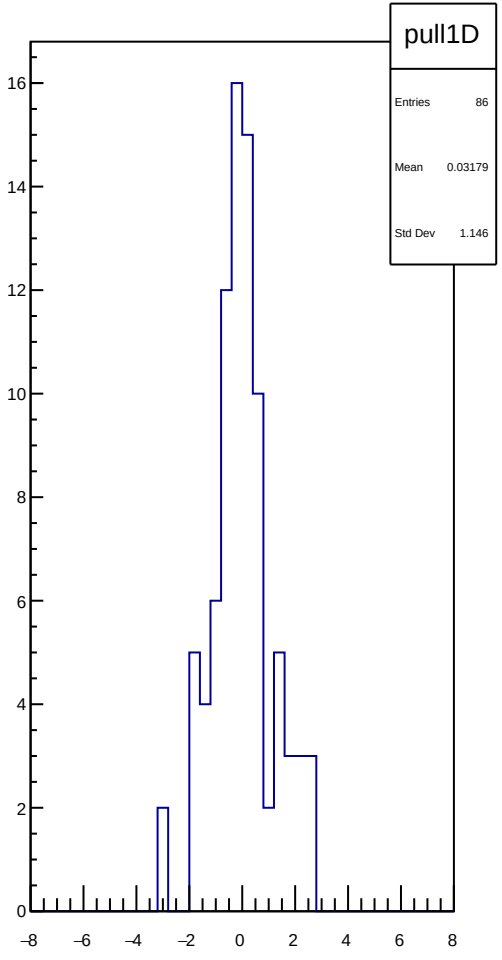

pull1D
Entries 86
Mean −0.08533
Std Dev 1.157

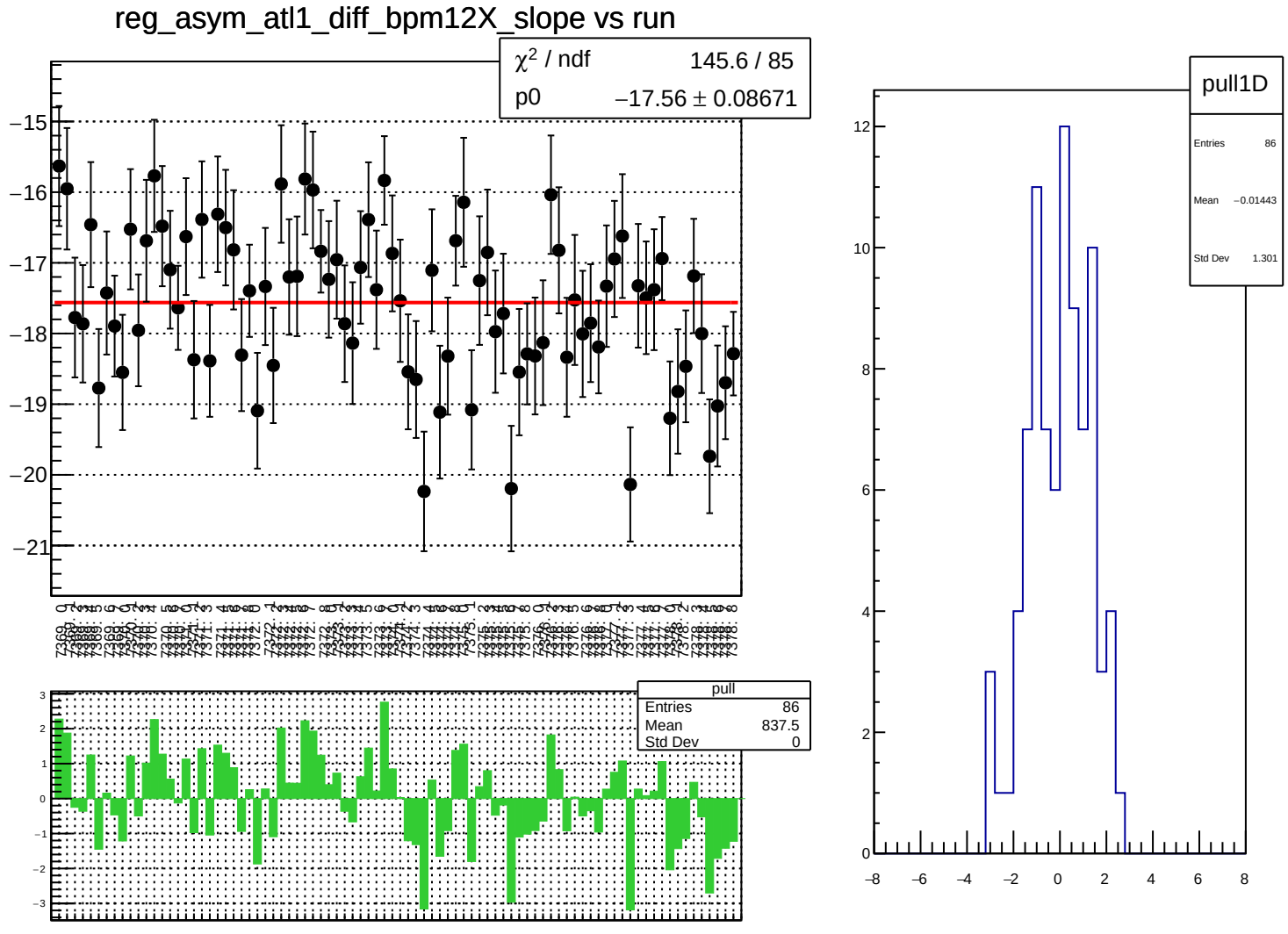

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 90.45 / 85
p0 −8.175 ± 1.819
pull
Entries 86
Mean −202.9
Std Dev 0

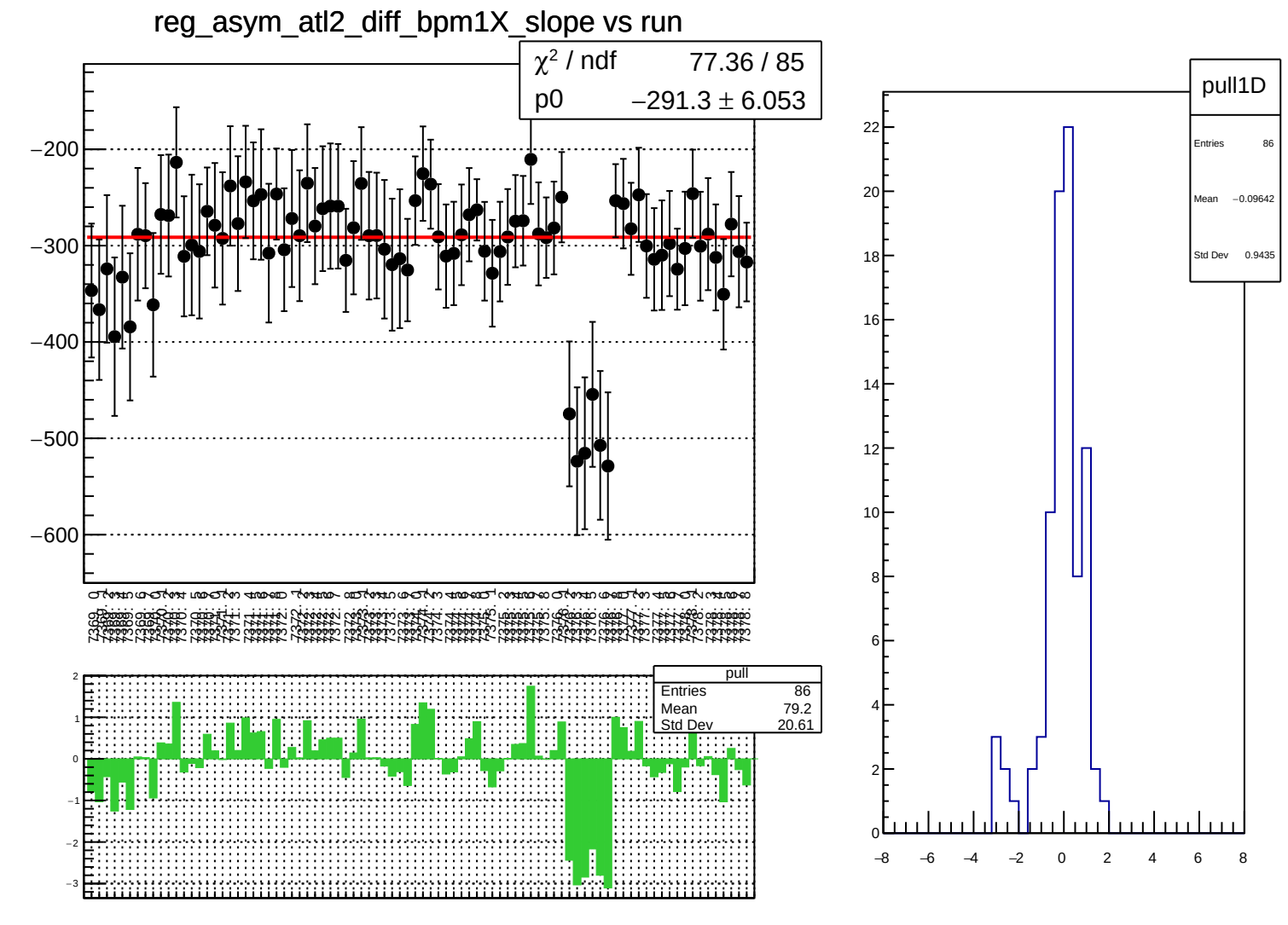

pull1D
Entries 86
Mean −0.03176
Std Dev 1.025

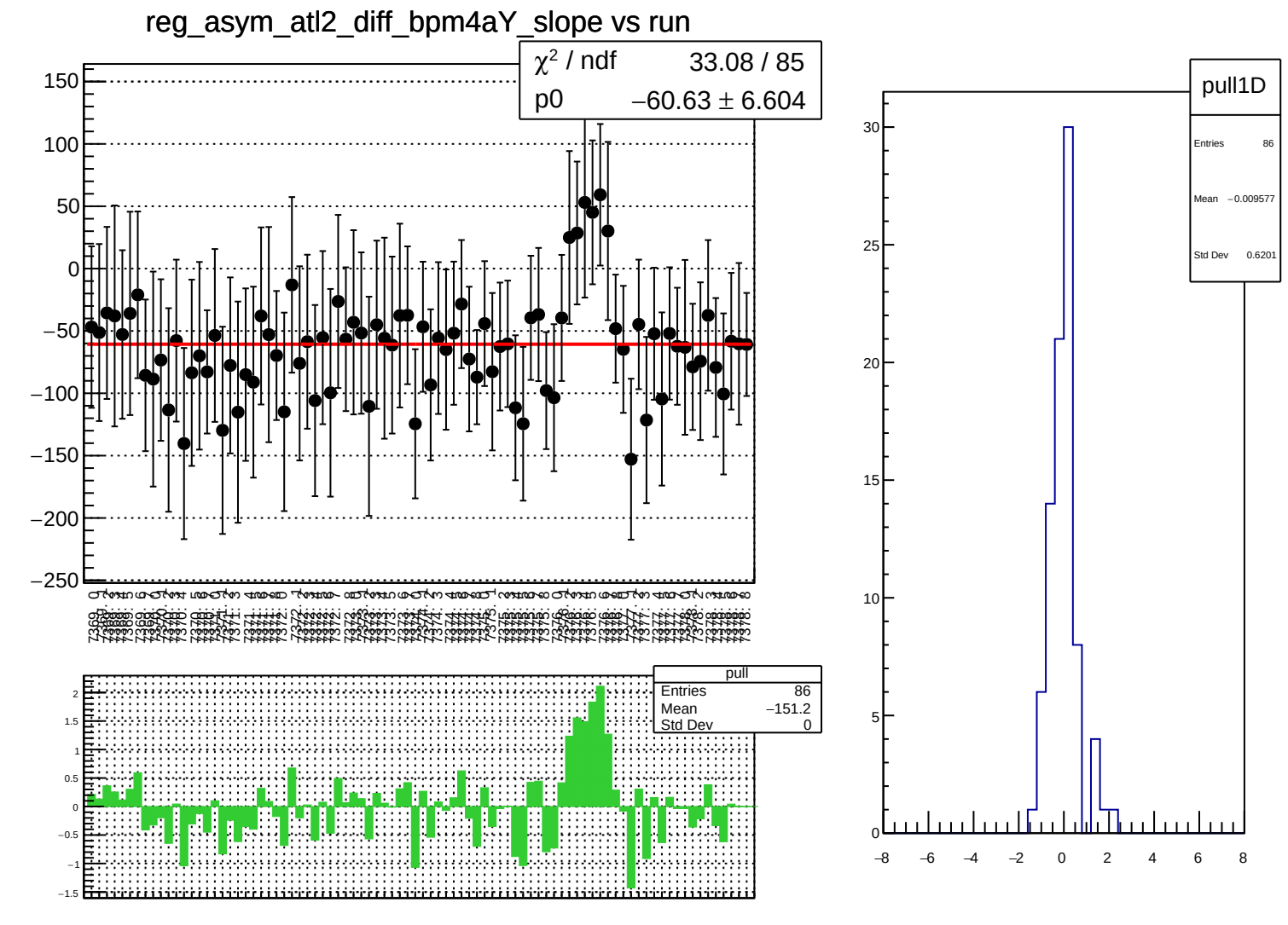

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 113.3 / 85
p0 22.95 ± 1.719
pull
Entries 86
Mean 66.77
Std Dev 0
pull1D
Entries 86
Mean 0.09419
Std Dev 1.144

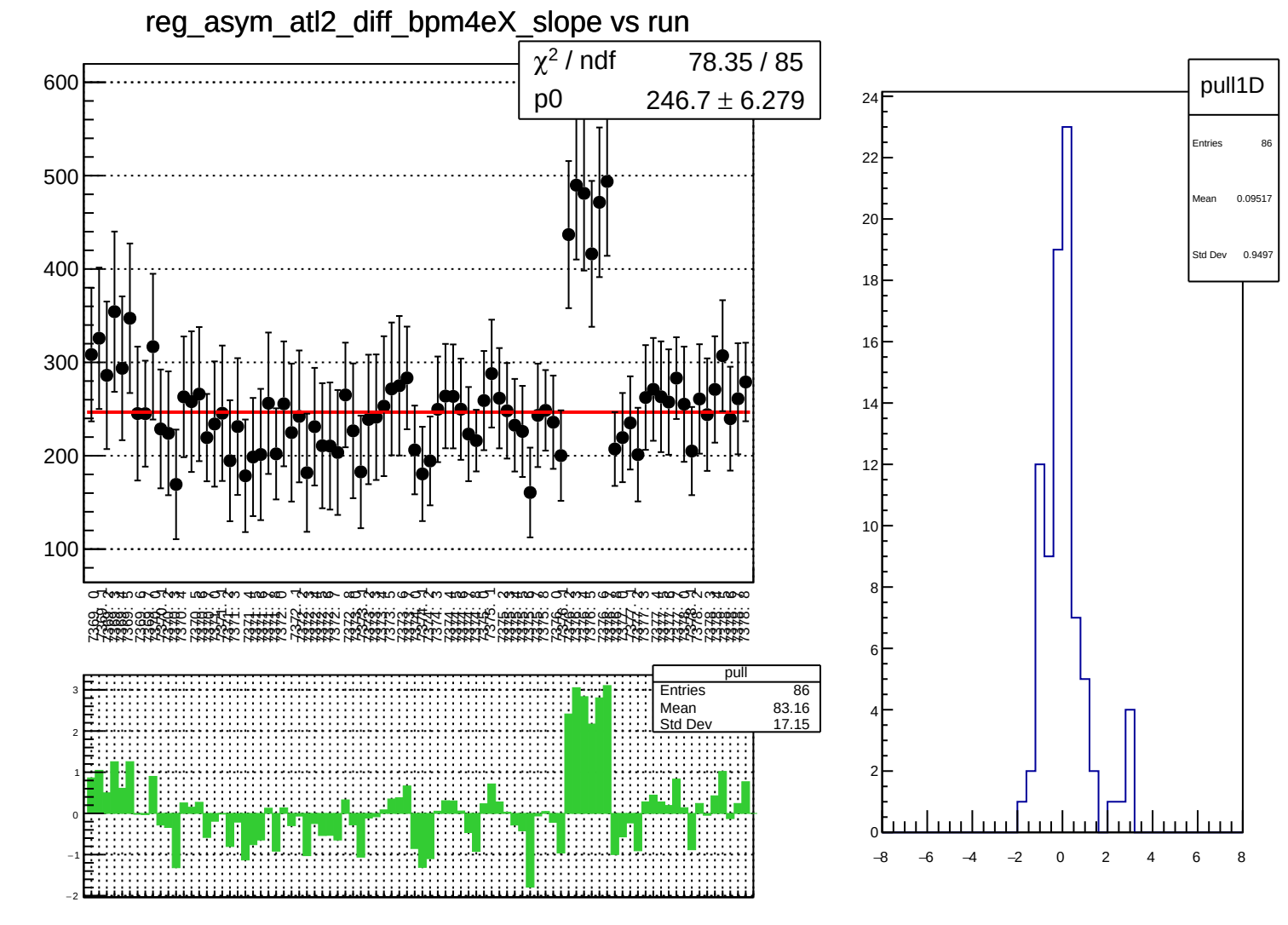

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 113 / 85
p0 −0.8243 ± 1.931
pull
Entries 86
Mean −310.3
Std Dev 0

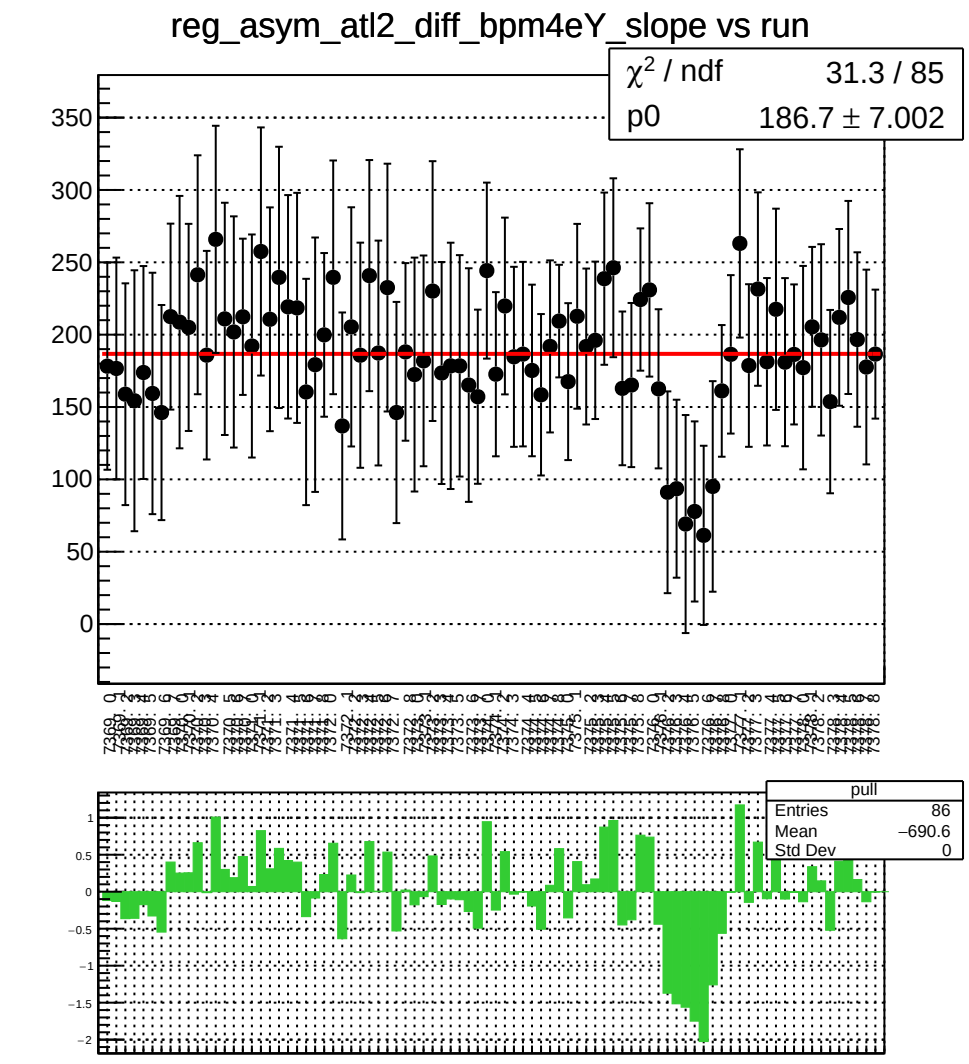

pull1D
Entries 86
Mean 0.03179
Std Dev 1.146

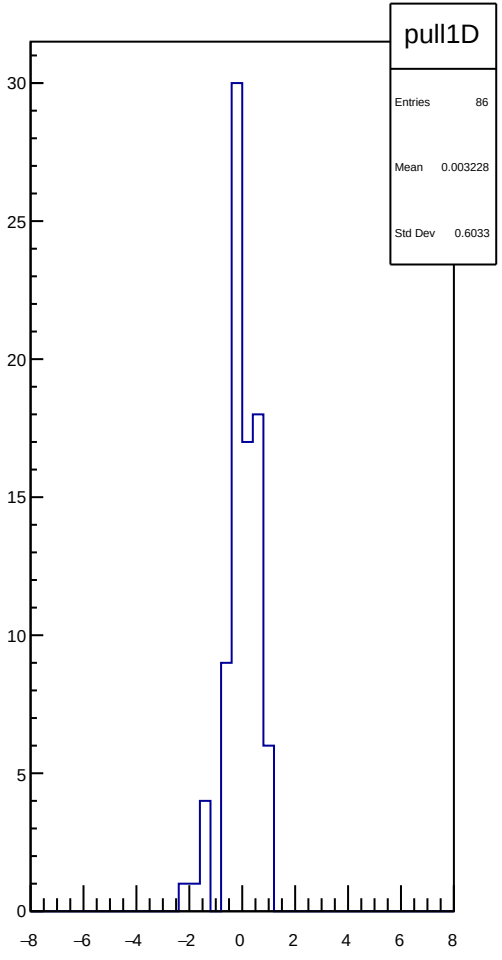

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 145.6 / 85
p0 −17.56 ± 0.08671
pull
Entries 86
Mean 837.5
Std Dev 0
pull1D
Entries 86
Mean −0.01443
Std Dev 1.301

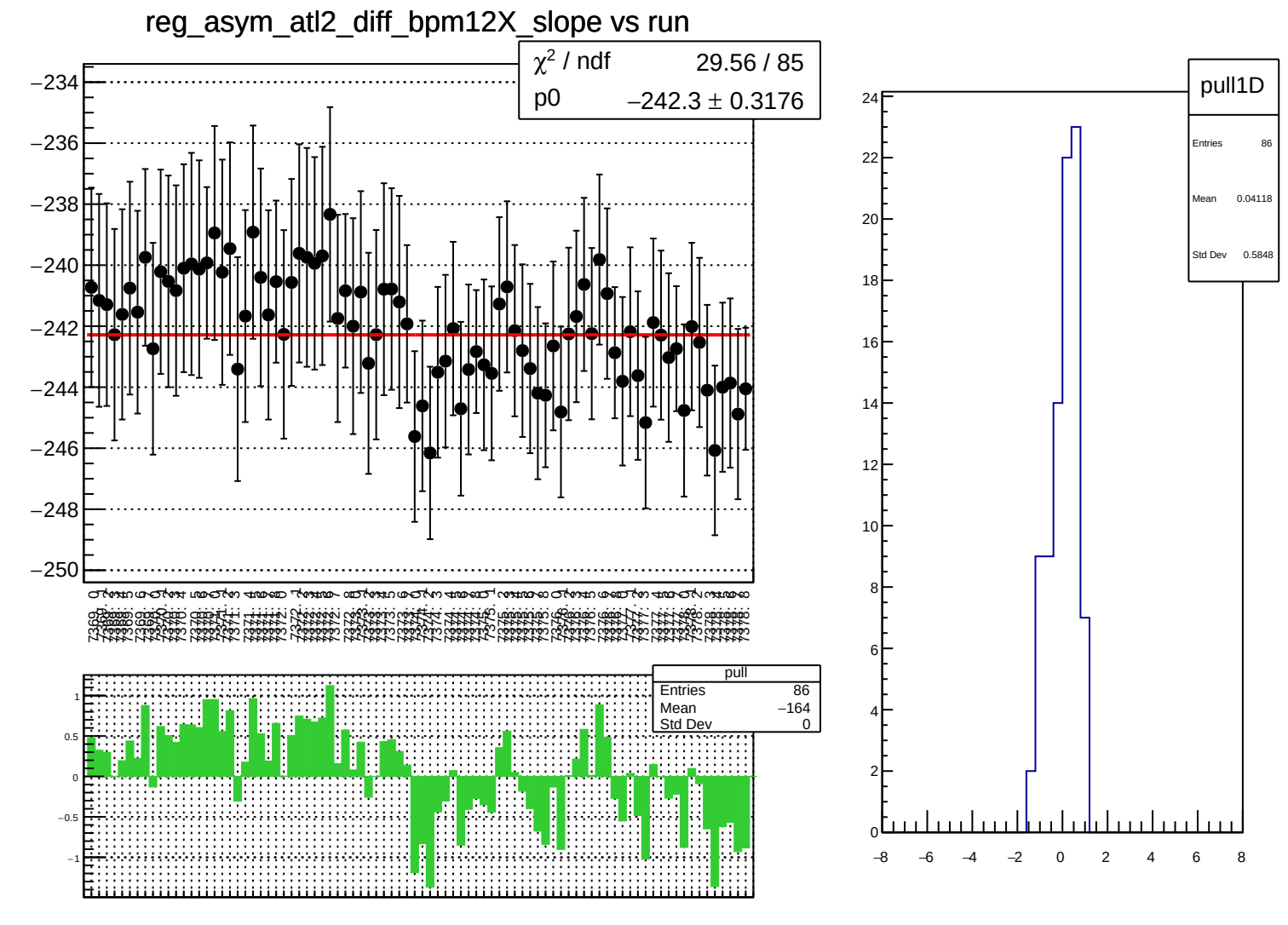

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 77.36 / 85
p0 −291.3 ± 6.053
−200
−300
−400
−500
−600
pull
Entries 86
Mean 79.2
Std Dev 20.61
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.09642
Std Dev 0.9435
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

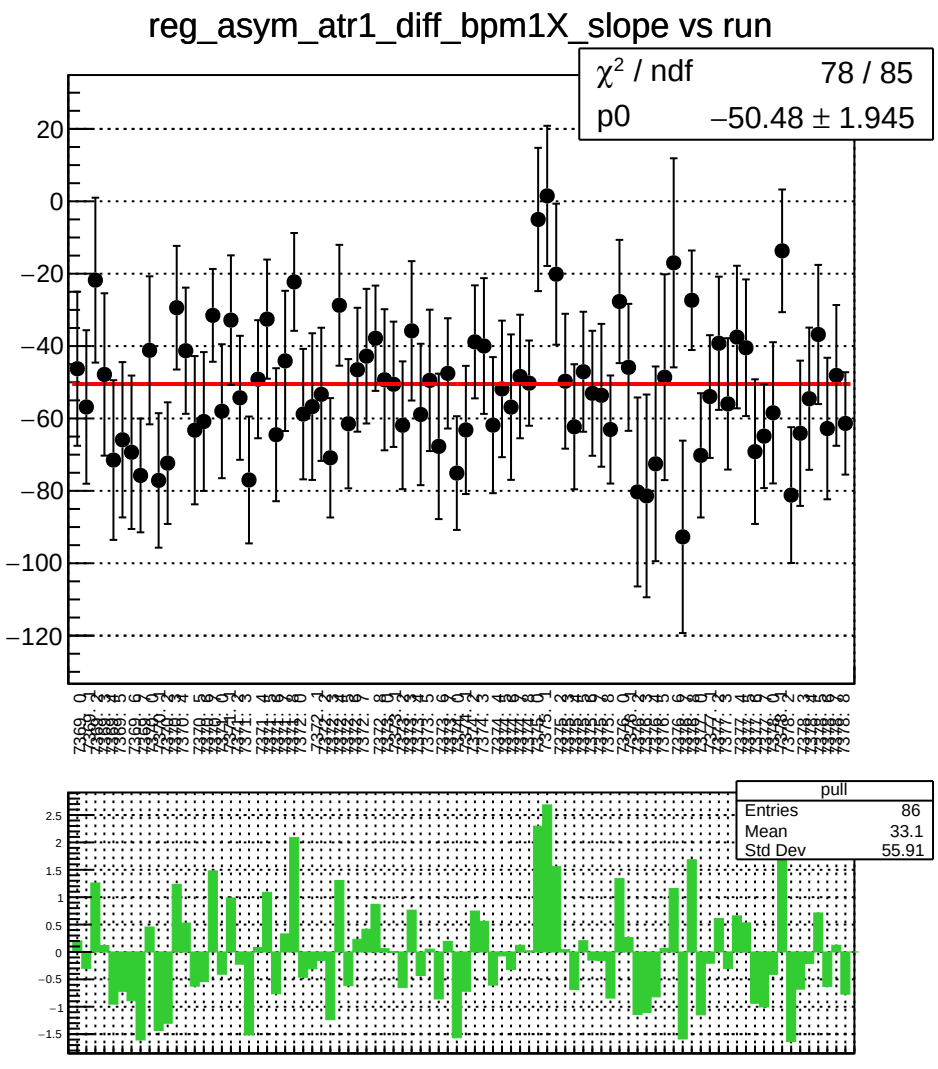

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 33.08 / 85
p0 −60.63 ± 6.604
pull
Entries 86
Mean −151.2
Std Dev 0
pull1D
Entries 86
Mean −0.009577
Std Dev 0.6201

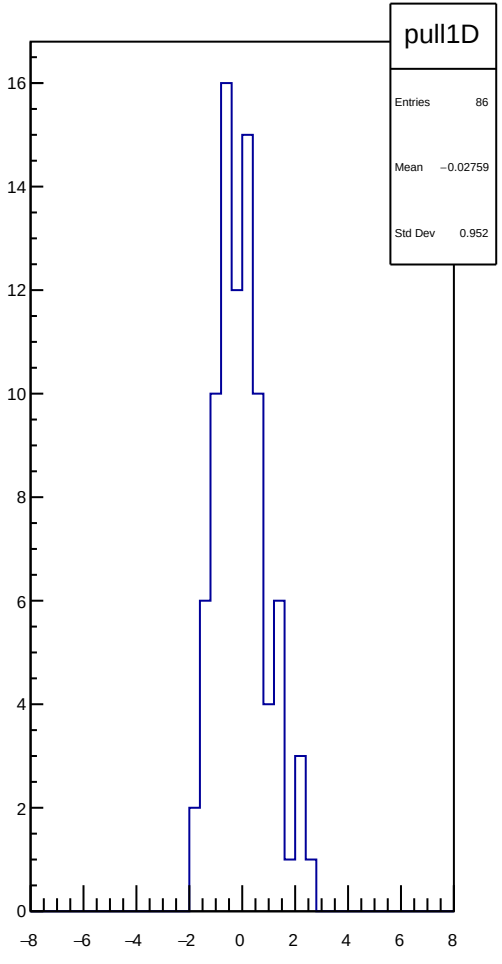

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 78.35 / 85
p0 246.7 ± 6.279
pull
Entries 86
Mean 83.16
Std Dev 17.15
pull1D
Entries 86
Mean 0.09517
Std Dev 0.9497

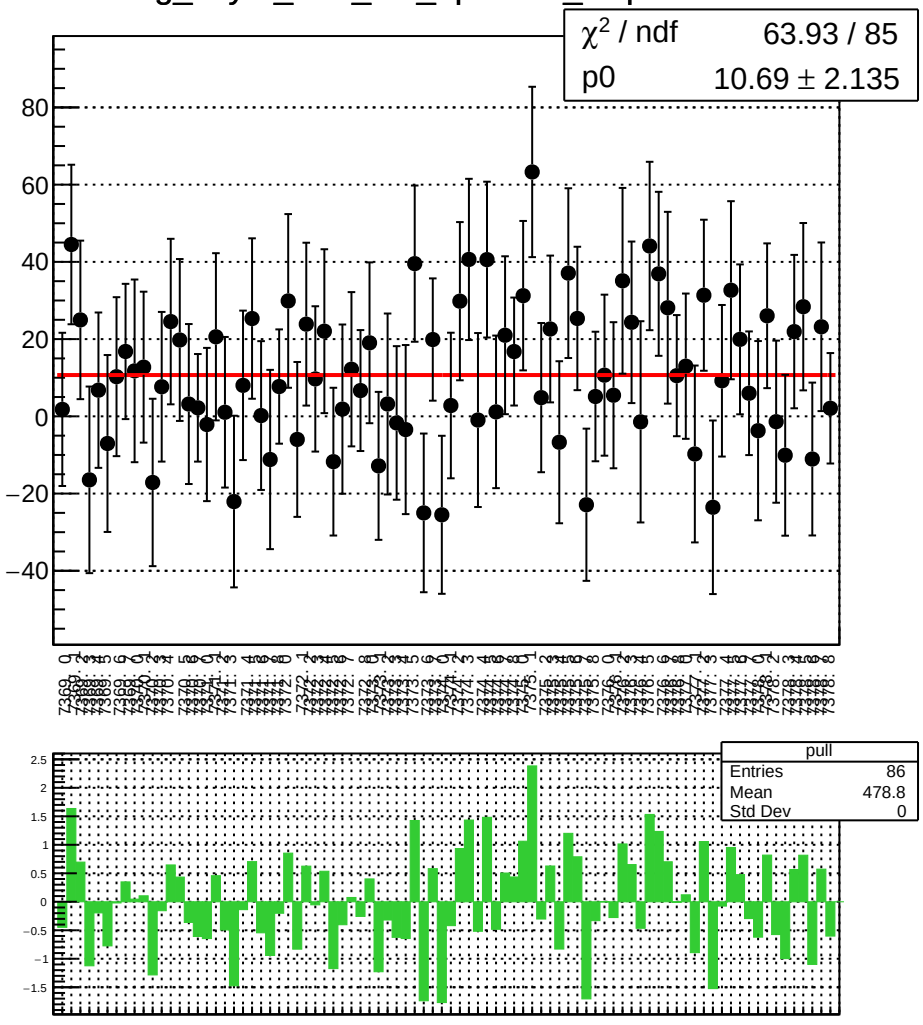

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 31.3 / 85
p0 186.7 ± 7.002
pull
Entries 86
Mean −690.6
Std Dev 0

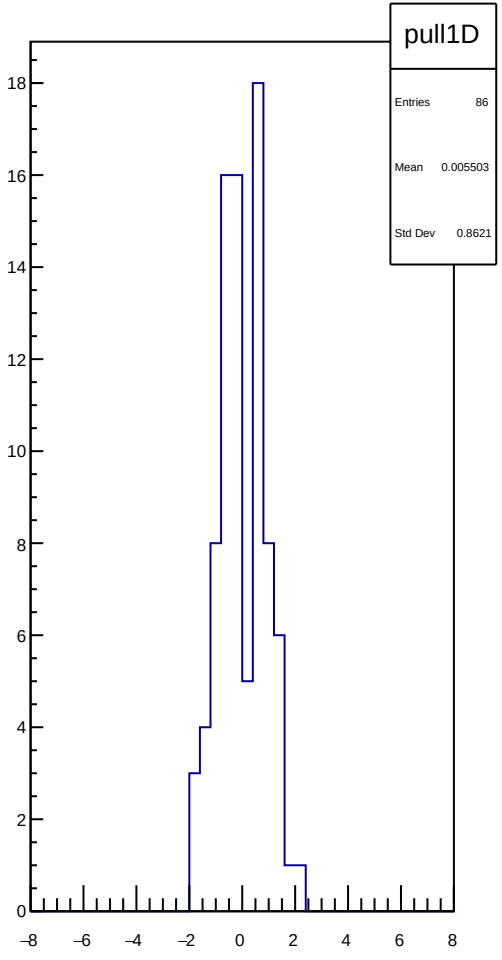

pull1D
Entries 86
Mean 0.003228
Std Dev 0.6033

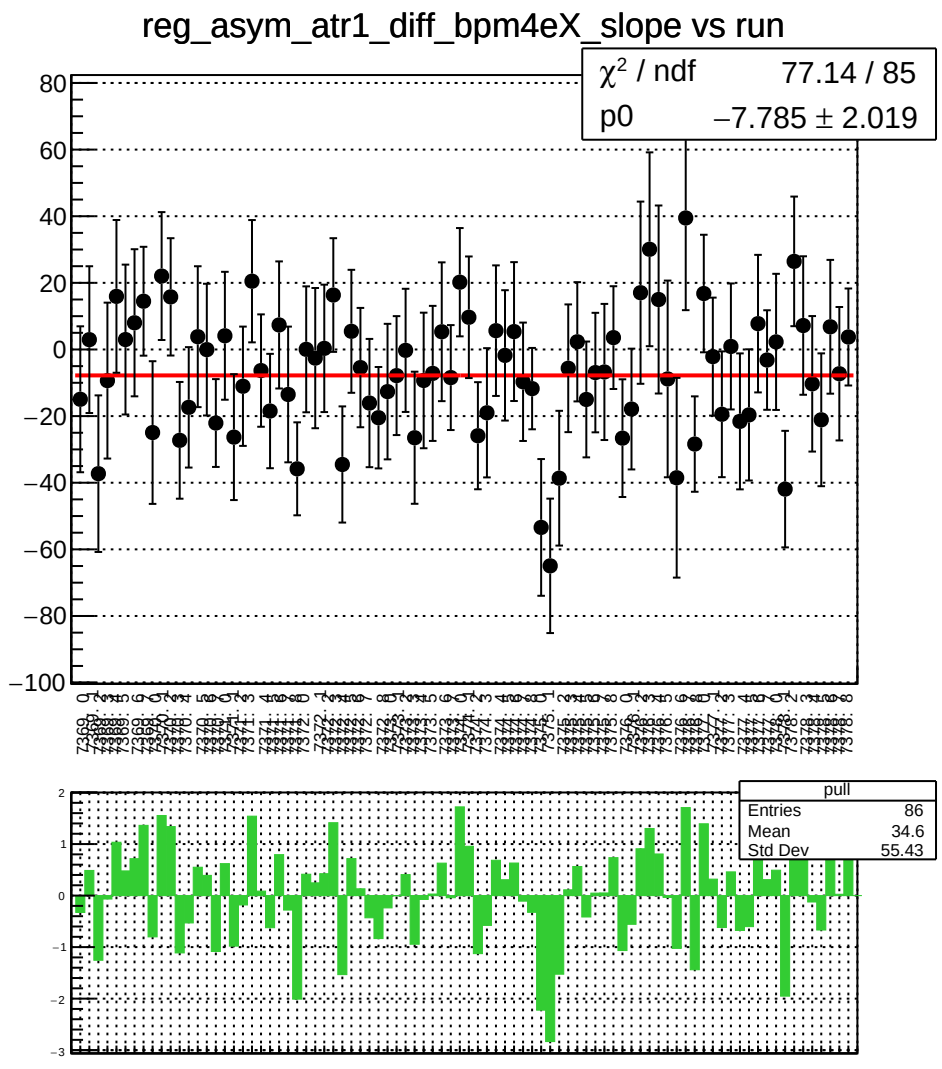

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 29.56 / 85
p0 −242.3 ± 0.3176
pull
Entries 86
Mean −164
Std Dev 0
pull1D
Entries 86
Mean 0.04118
Std Dev 0.5848

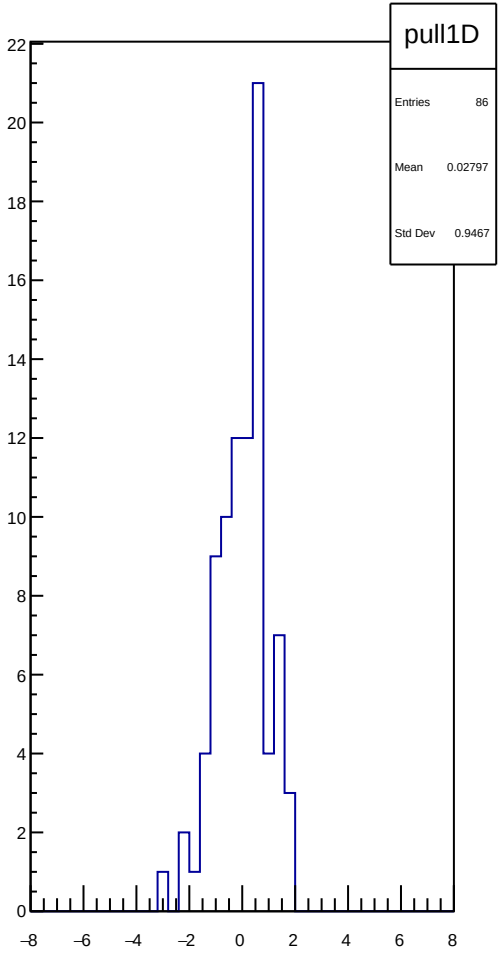

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 78 / 85
p0 −50.48 ± 1.945
pull
Entries 86
Mean 33.1
Std Dev 55.91

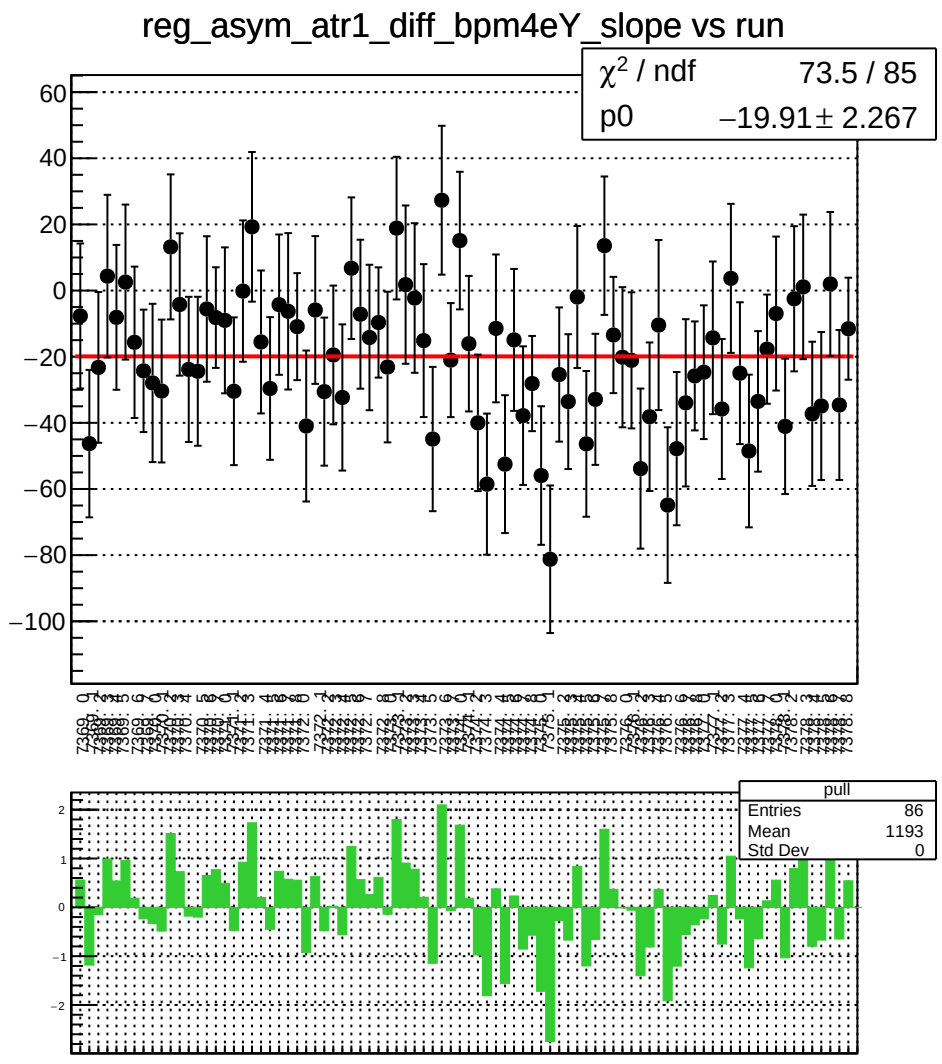

pull1D
Entries 86
Mean −0.02759
Std Dev 0.952

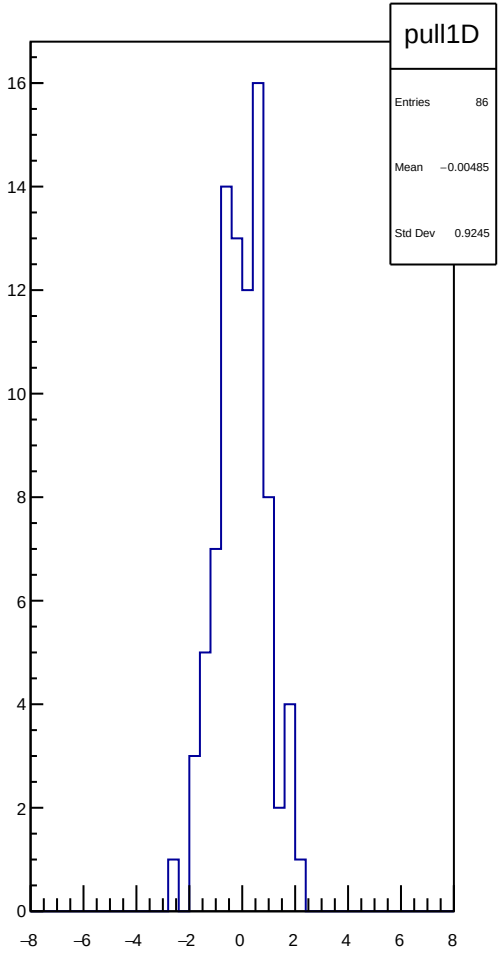

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 63.93 / 85
p0 10.69 ± 2.135
pull
Entries 86
Mean 478.8
Std Dev 0

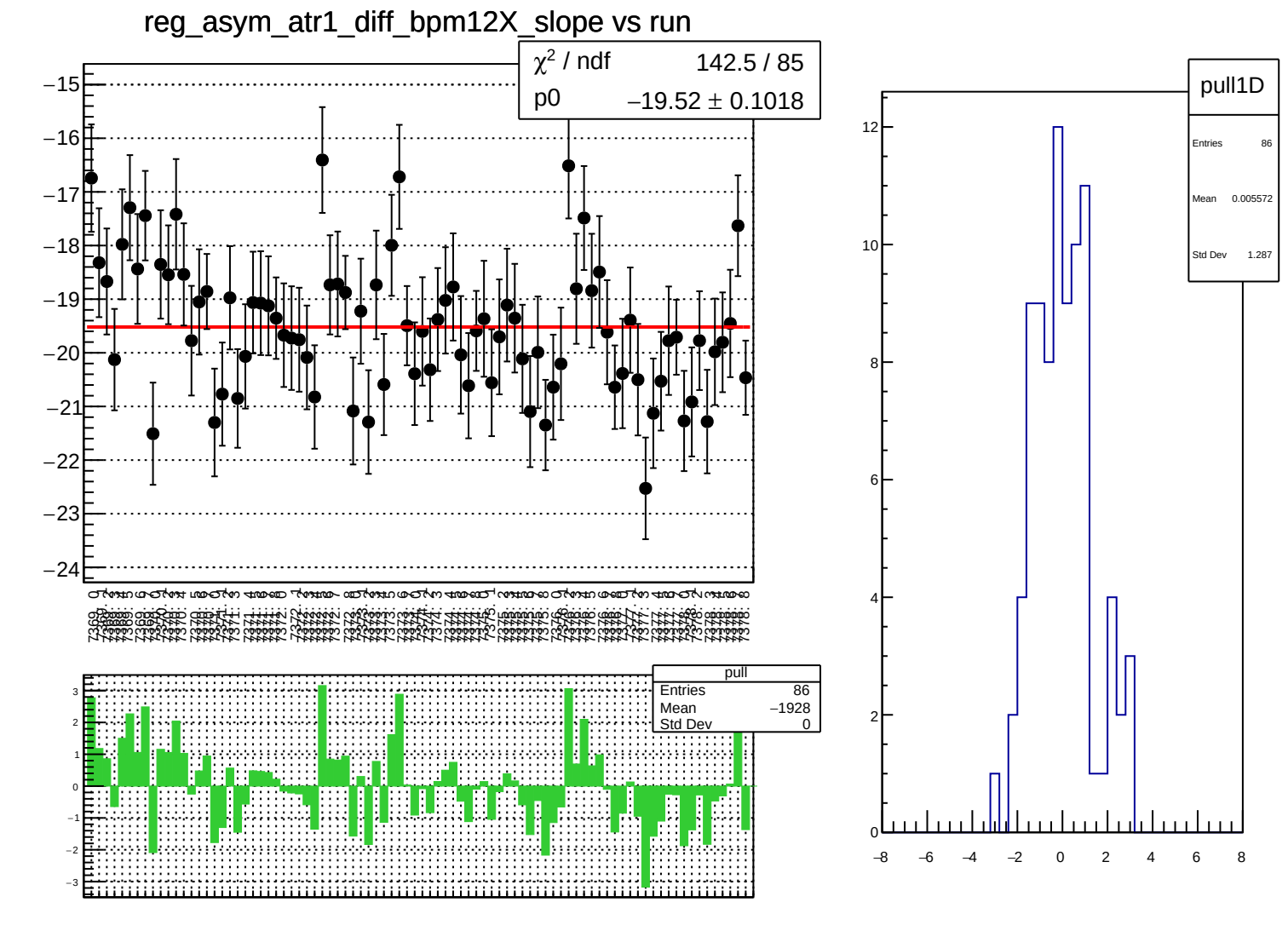

pull1D
Entries 86
Mean 0.005503
Std Dev 0.8621

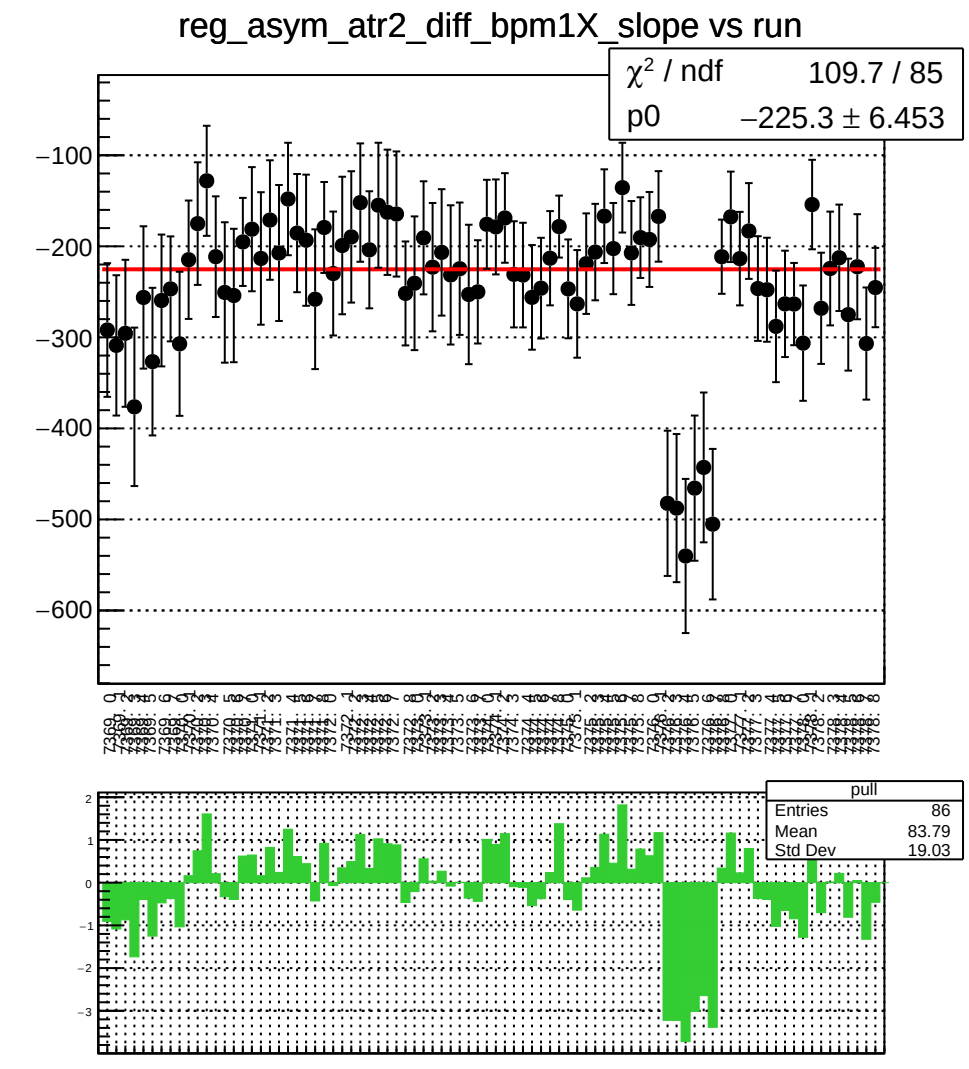

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 77.14 / 85
p0 −7.785 ± 2.019
pull
Entries 86
Mean 34.6
Std Dev 55.43

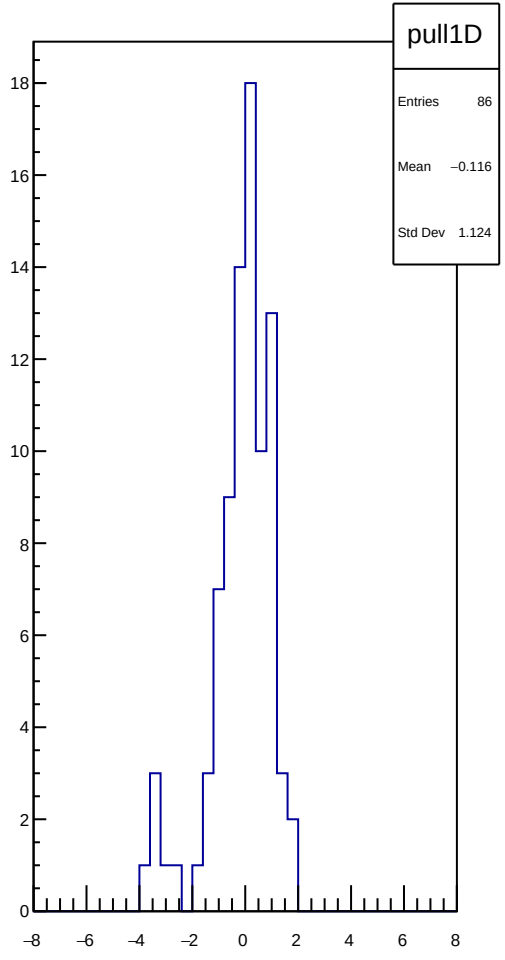

pull1D
Entries 86
Mean 0.02797
Std Dev 0.9467

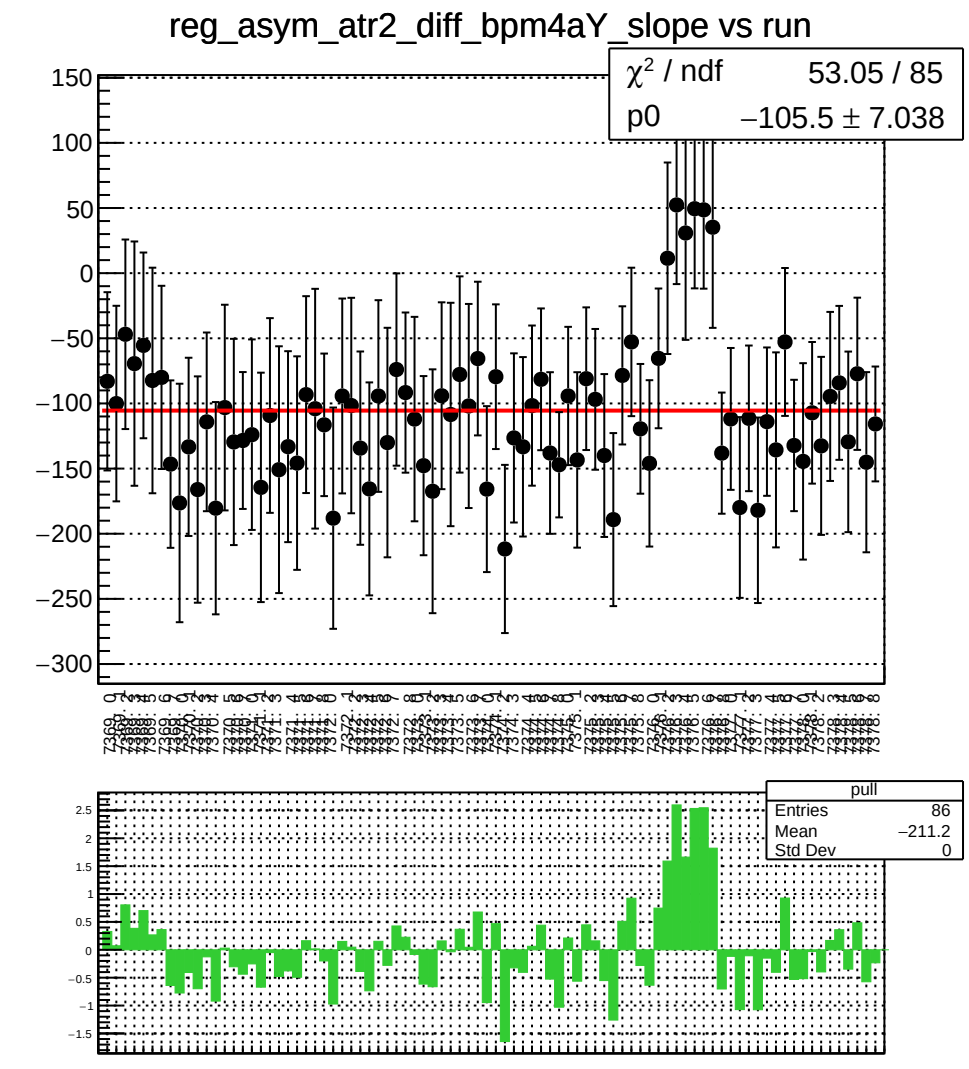

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 73.5 / 85
p0 −19.91± 2.267
pull
Entries 86
Mean 1193
Std Dev 0

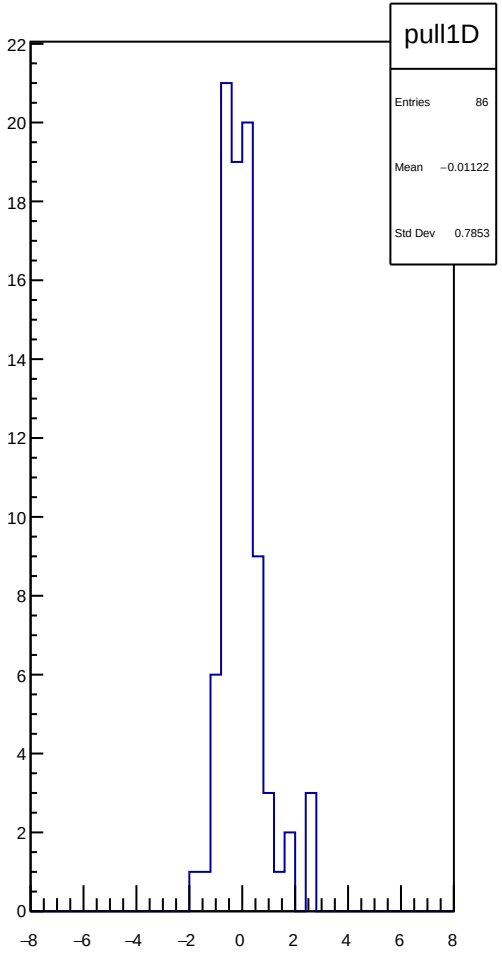

pull1D
Entries 86
Mean −0.00485
Std Dev 0.9245

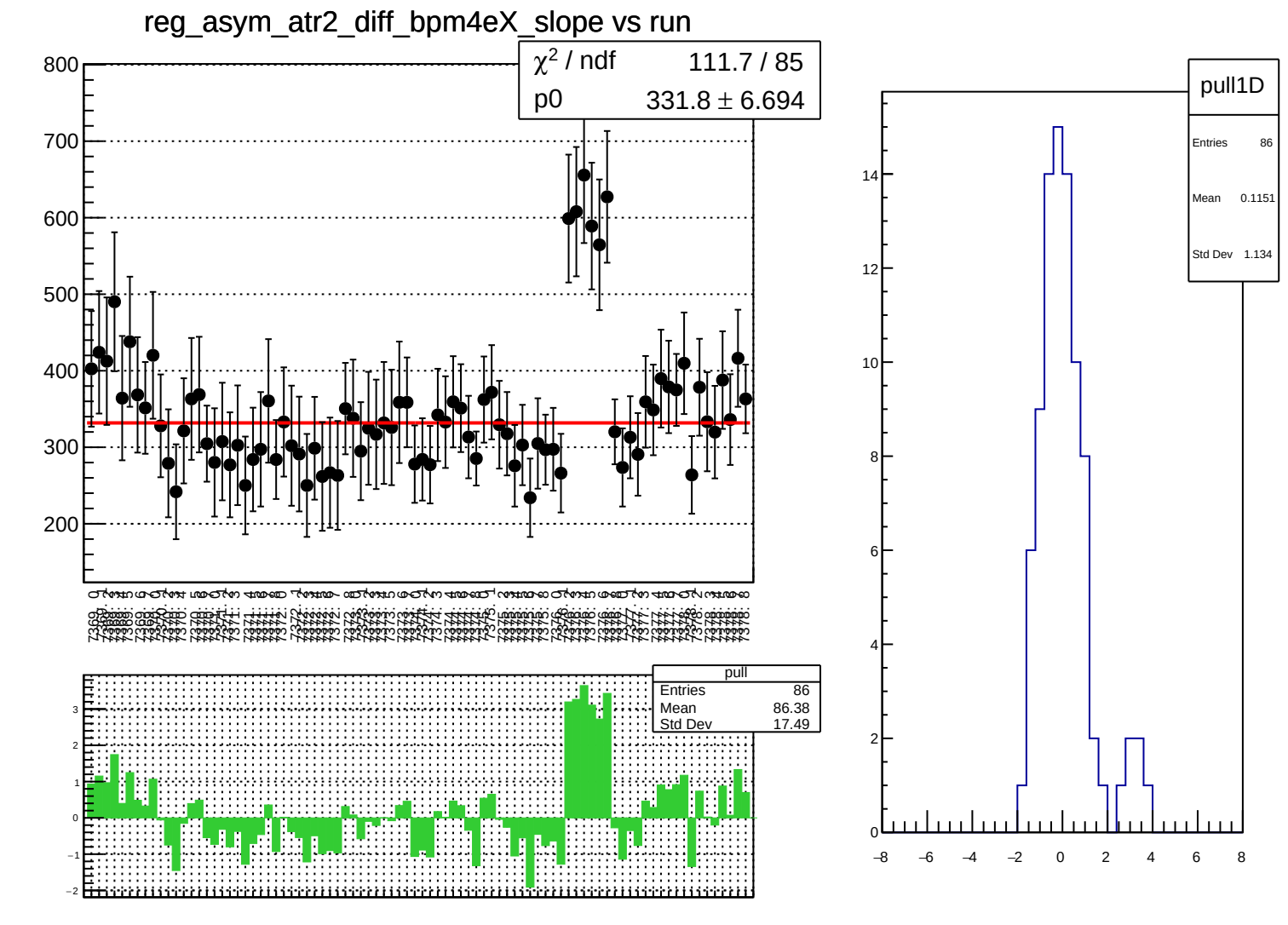

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 142.5 / 85
p0 −19.52 ± 0.1018
pull
Entries 86
Mean −1928
Std Dev 0
pull1D
Entries 86
Mean 0.005572
Std Dev 1.287

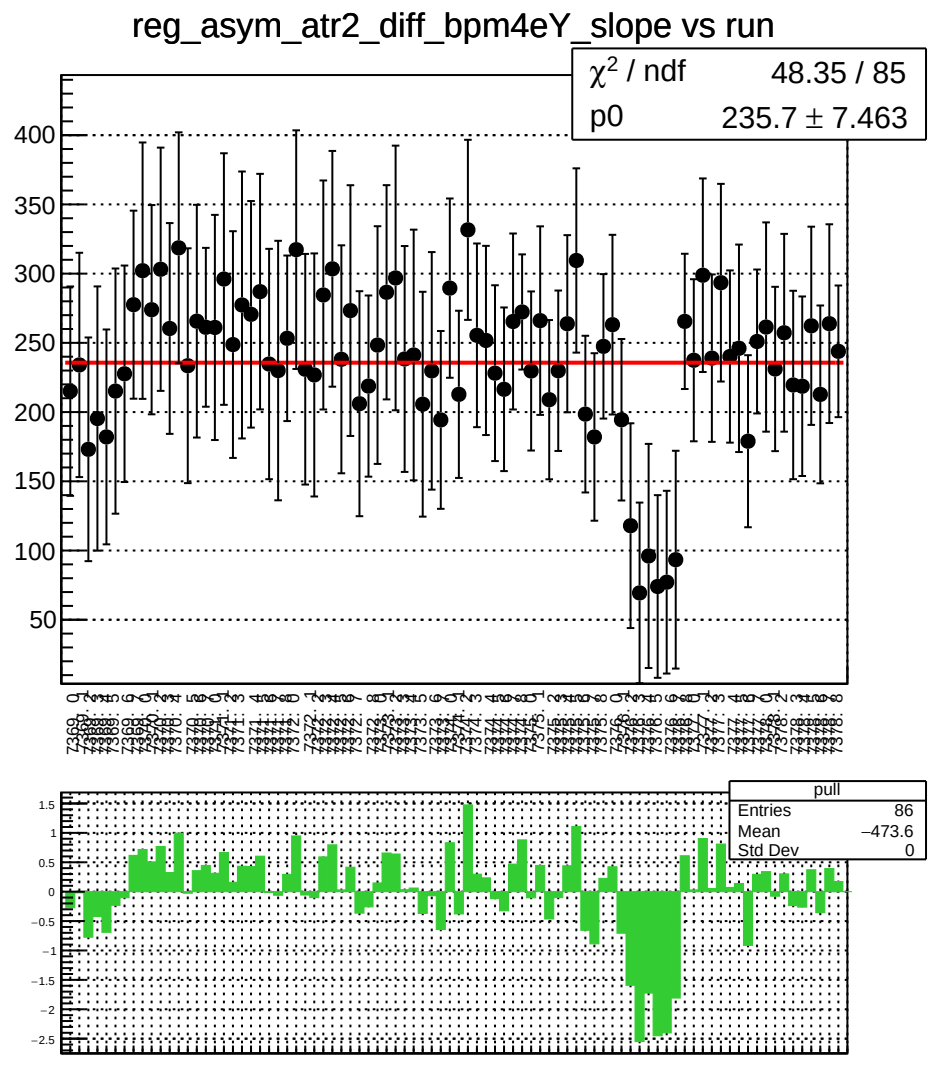

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 109.7 / 85
p0 −225.3 ± 6.453
−100
−200
−300
−400
−500
−600
pull
Entries 86
Mean 83.79
Std Dev 19.03
2
1
0
−1
−2
−3

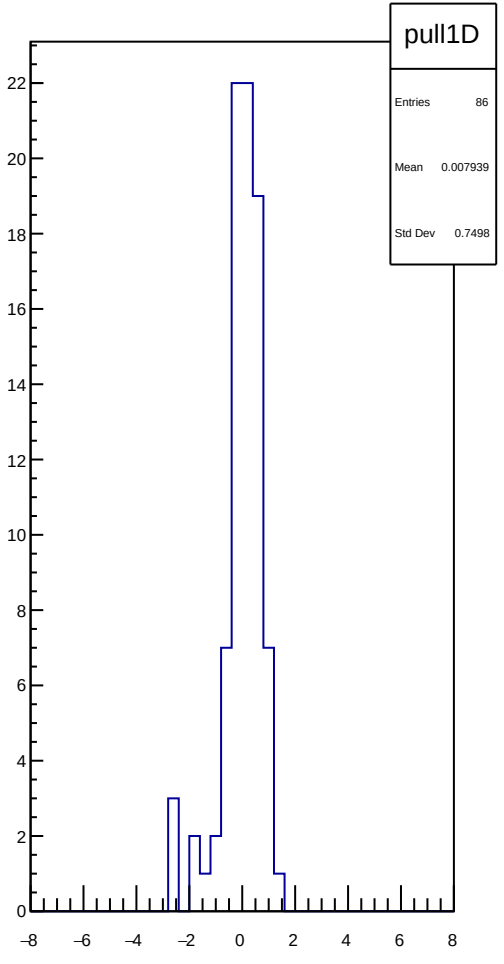

pull1D
Entries 86
Mean −0.116
Std Dev 1.124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

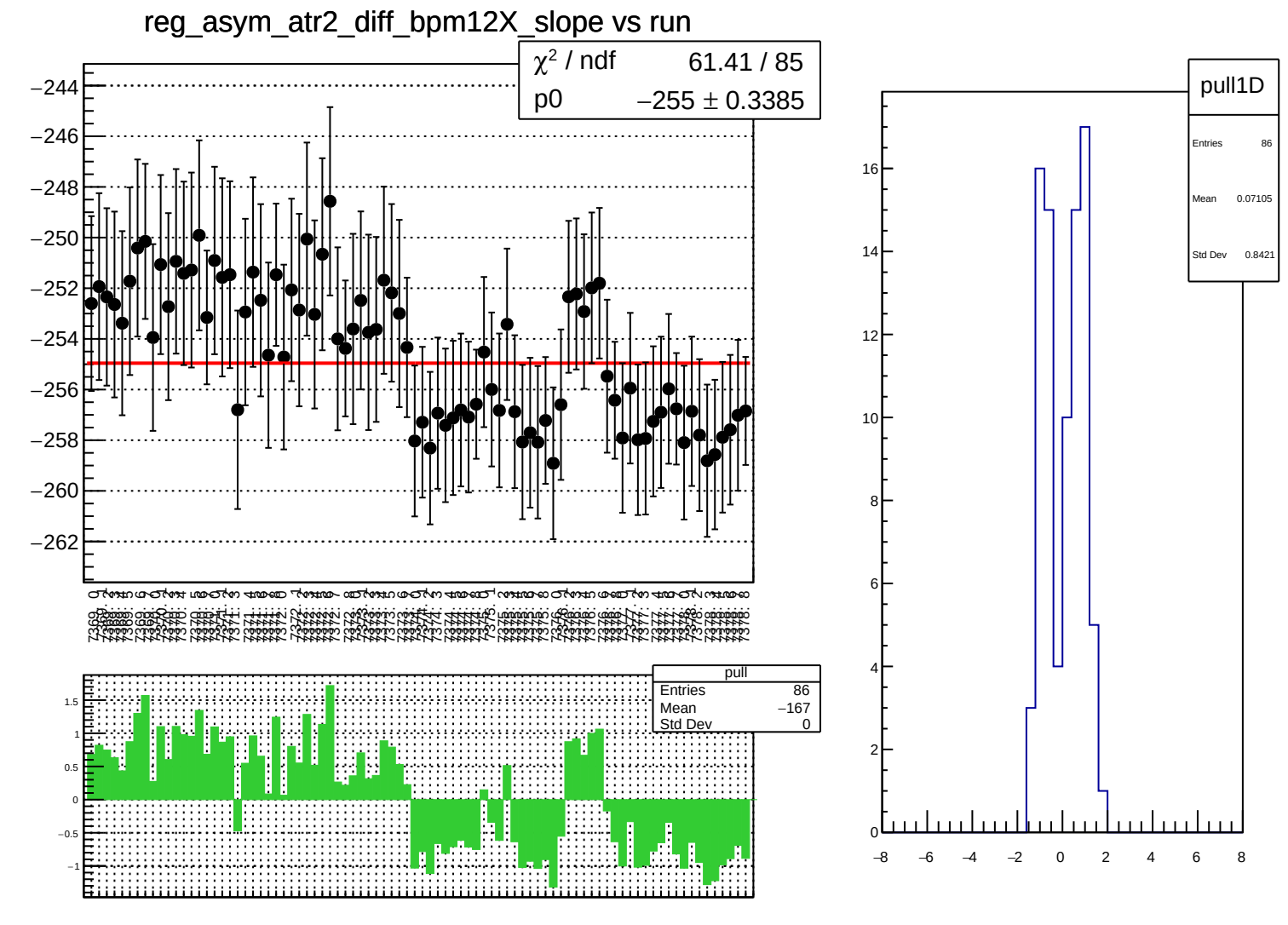

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 53.05 / 85
p0 −105.5 ± 7.038
pull
Entries 86
Mean −211.2
Std Dev 0

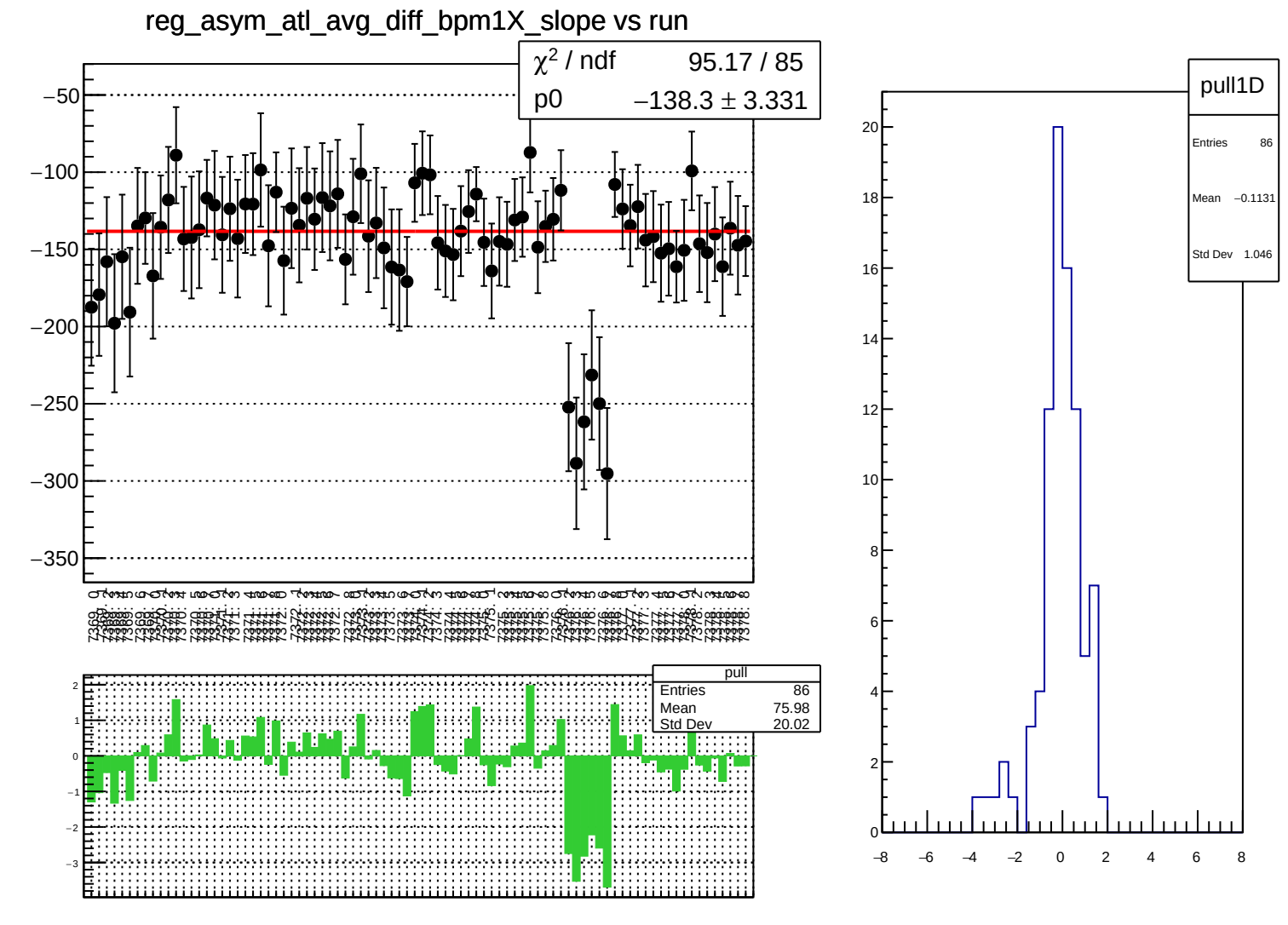

pull1D
Entries 86
Mean −0.01122
Std Dev 0.7853

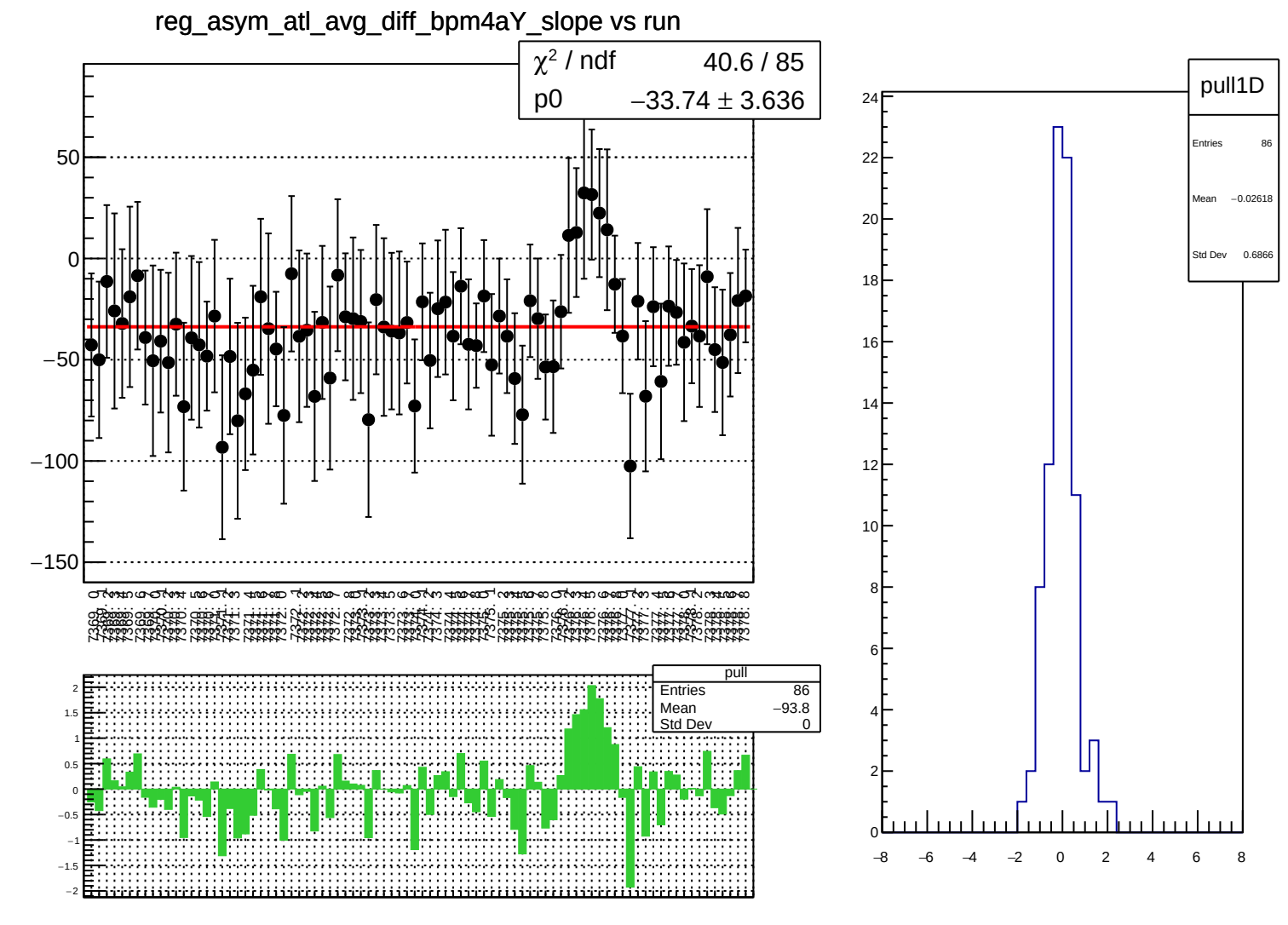

reg_asym_atr2_diff_bpm4eX_slope vs run
χ^2 / ndf 111.7 / 85
p0 331.8 ± 6.694
pull
Entries 86
Mean 86.38
Std Dev 17.49
pull1D
Entries 86
Mean 0.1151
Std Dev 1.134

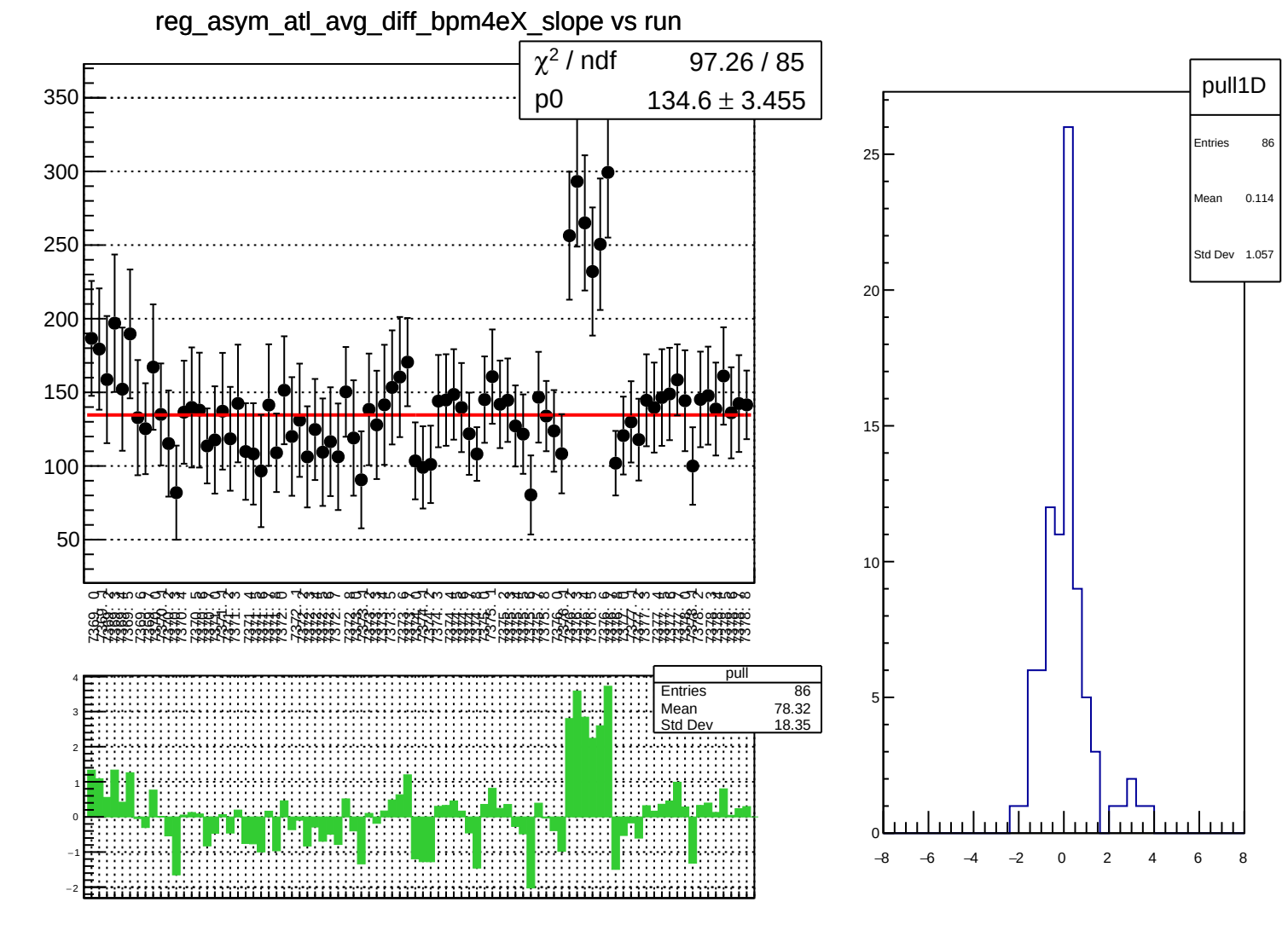

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 48.35 / 85
p0 235.7 ± 7.463
pull
Entries 86
Mean −473.6
Std Dev 0

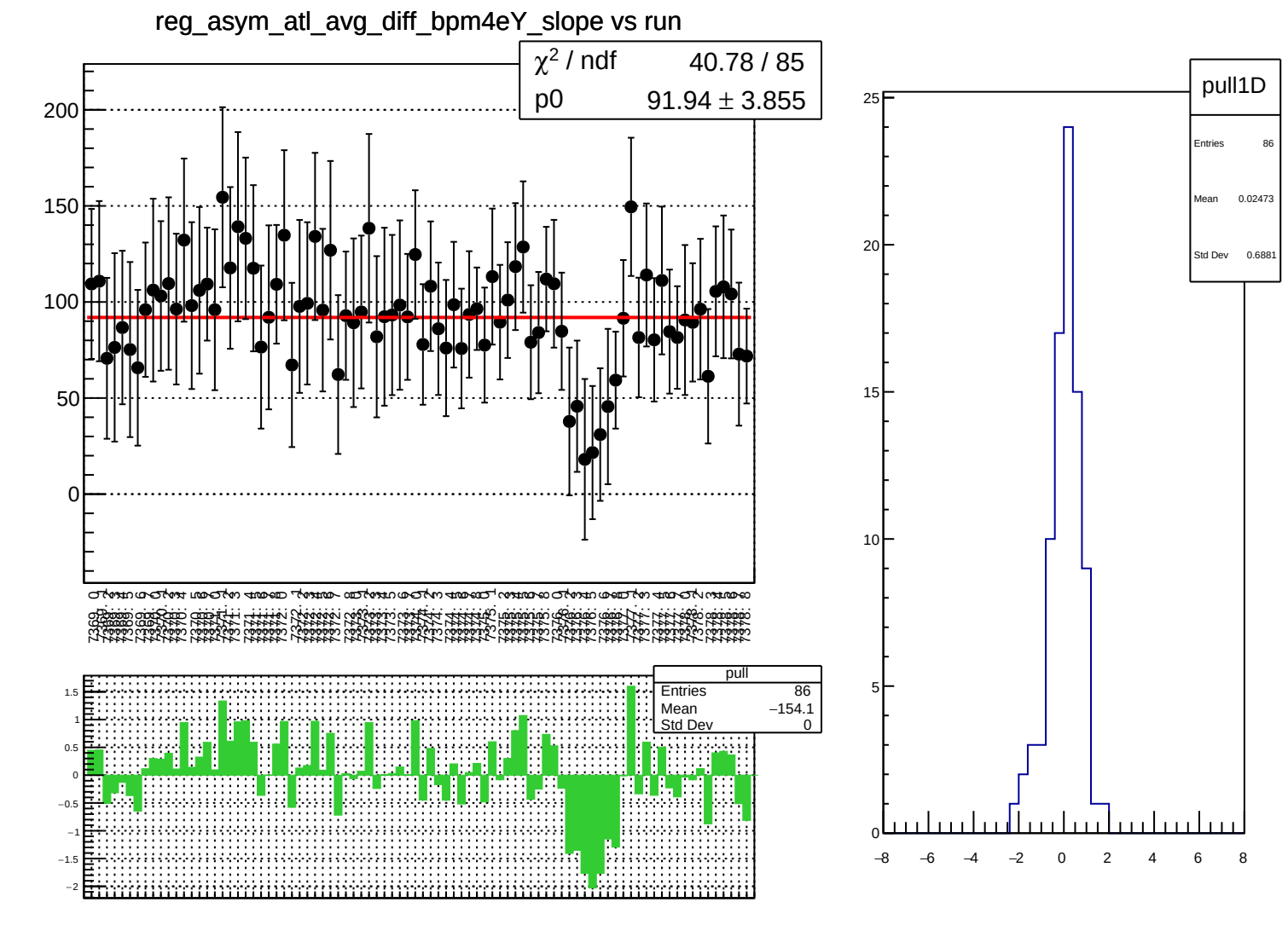

pull1D
Entries 86
Mean 0.007939
Std Dev 0.7498

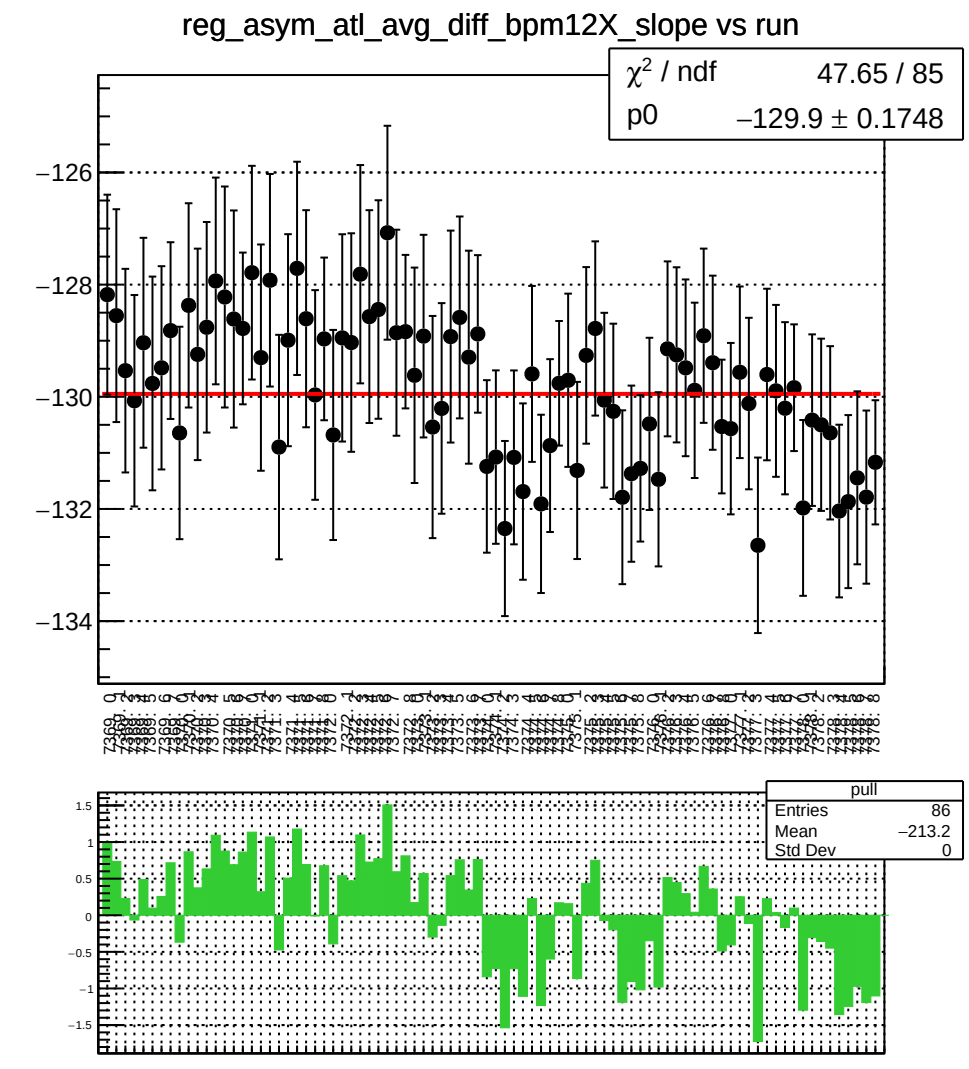

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 61.41 / 85
p0 −255 ± 0.3385
pull
Entries 86
Mean −167
Std Dev 0
pull1D
Entries 86
Mean 0.07105
Std Dev 0.8421

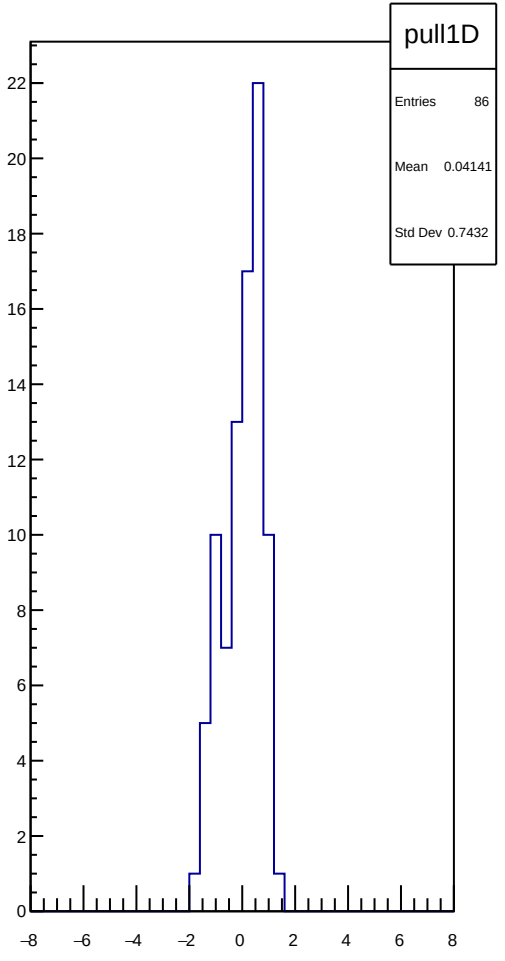

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 95.17 / 85
p0 −138.3 ± 3.331
pull
Entries 86
Mean 75.98
Std Dev 20.02
pull1D
Entries 86
Mean −0.1131
Std Dev 1.046

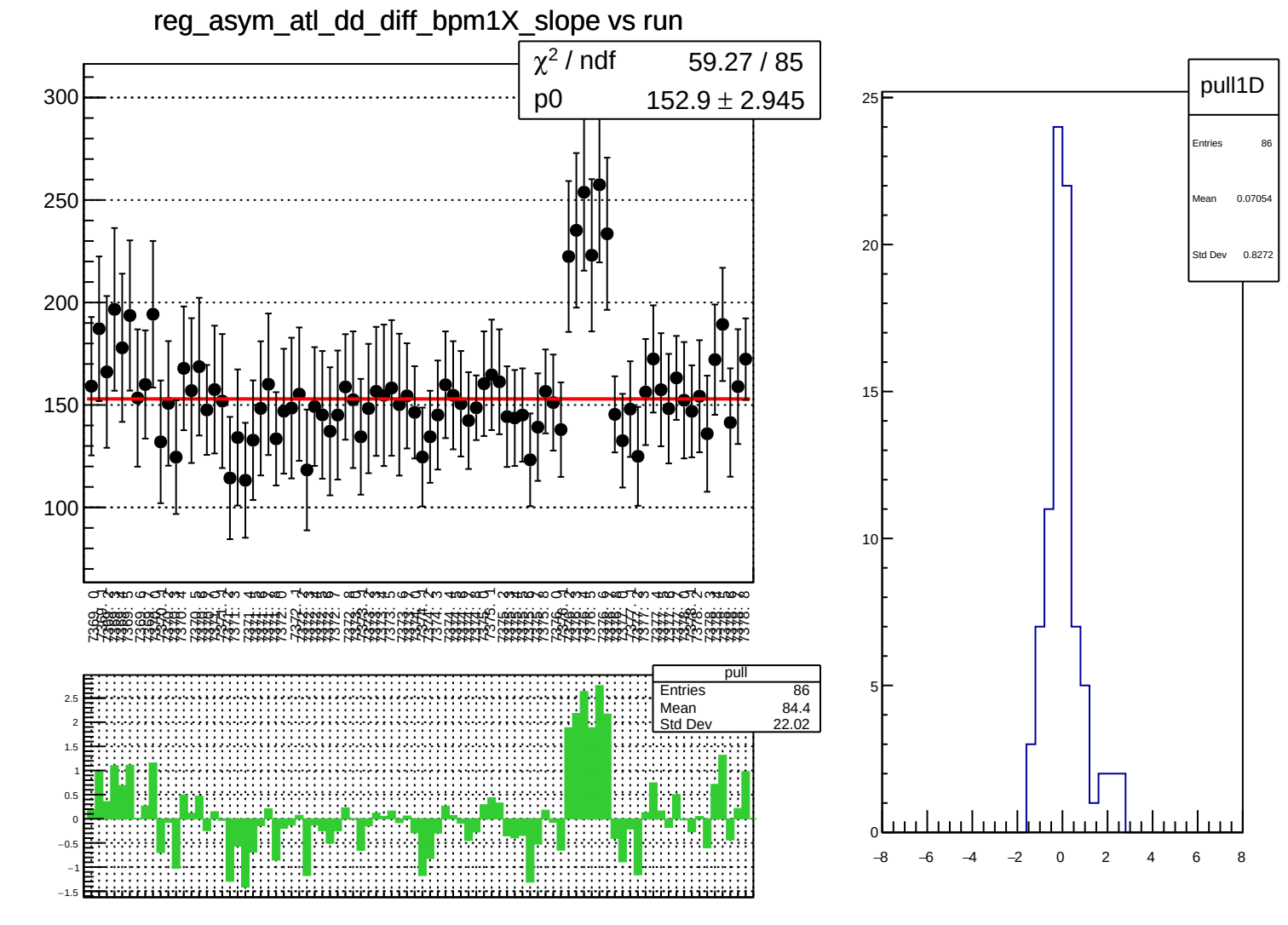

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.6 / 85
p0 −33.74 ± 3.636
50
0
−50
−100
−150
pull
Entries 86
Mean −93.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.02618
Std Dev 0.6866
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

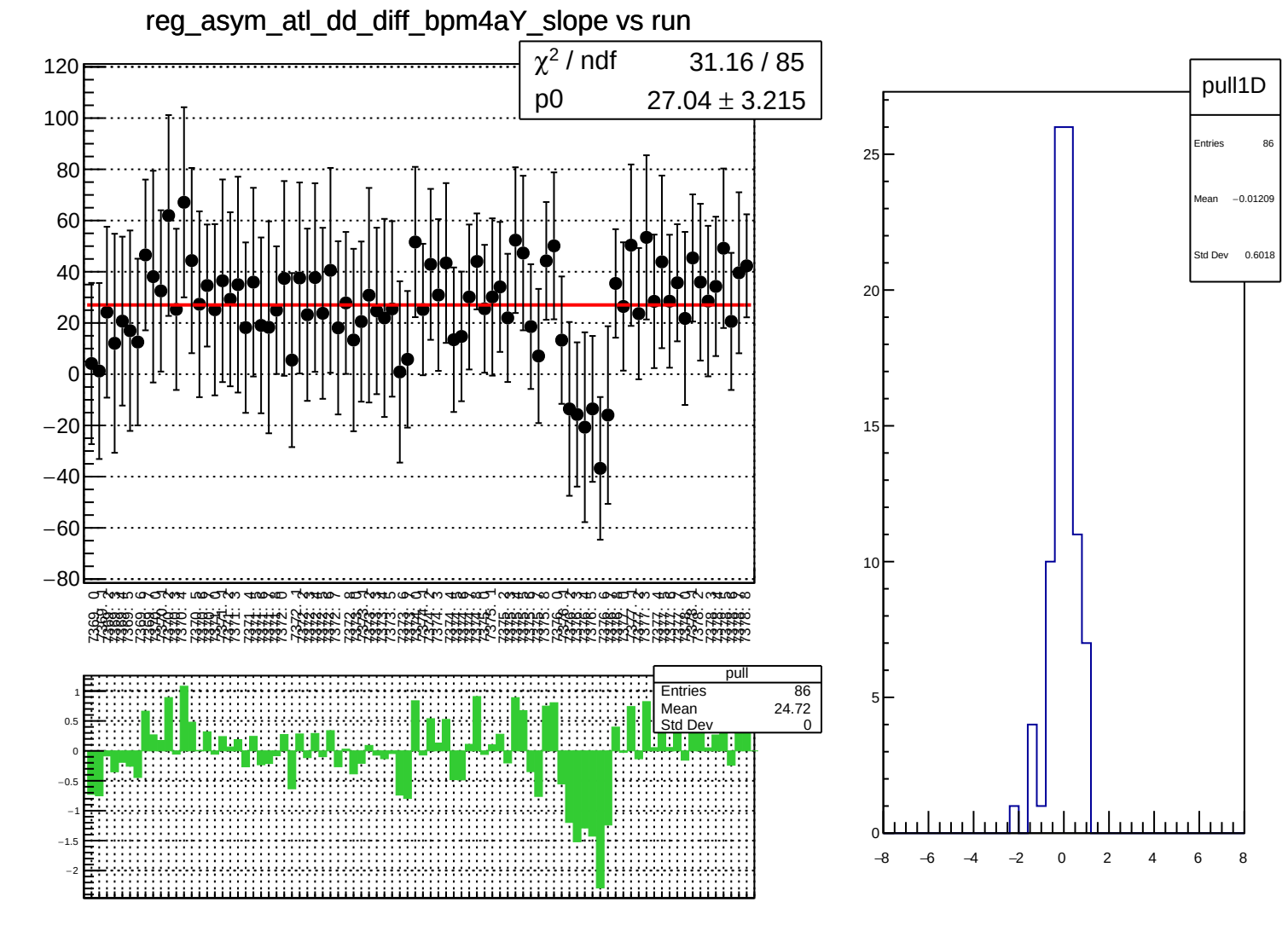

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 97.26 / 85
p0 134.6 ± 3.455
pull
Entries 86
Mean 78.32
Std Dev 18.35
pull1D
Entries 86
Mean 0.114
Std Dev 1.057

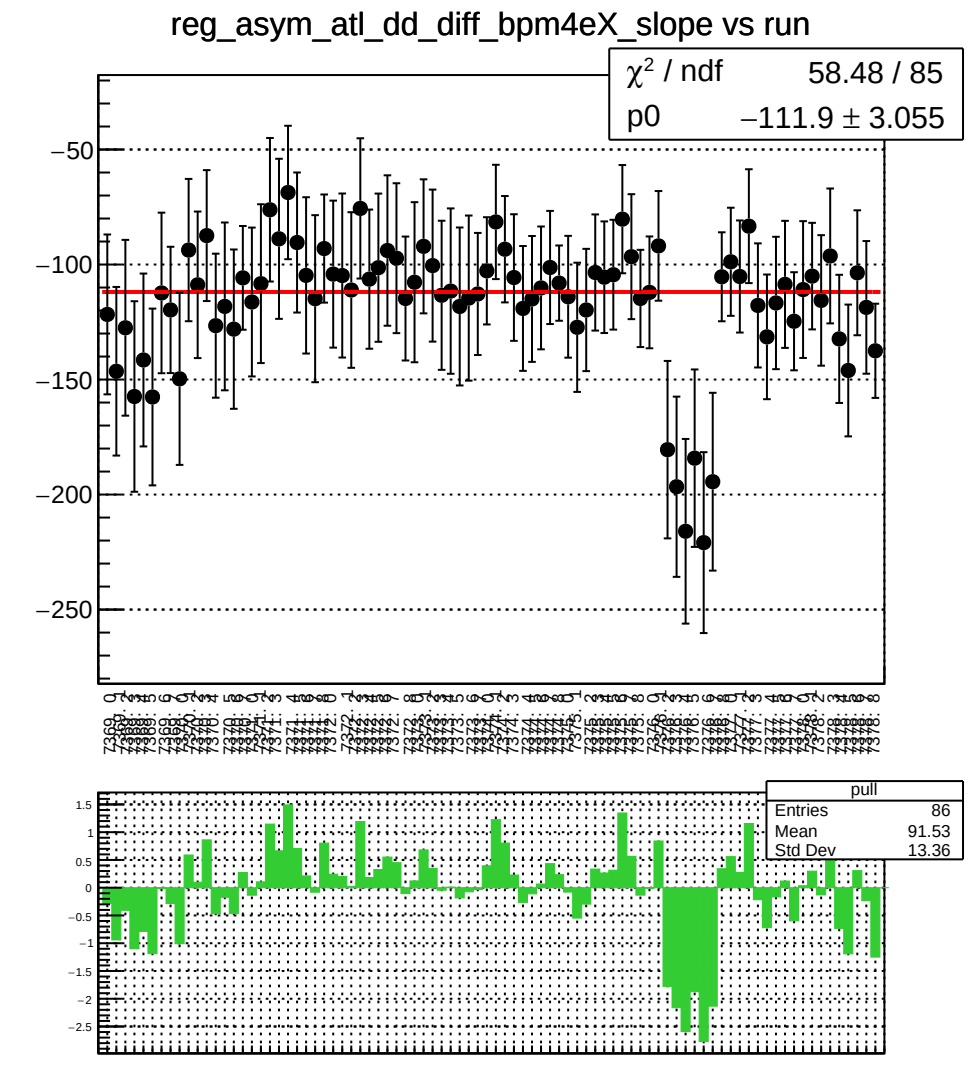

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.78 / 85
p0 91.94 ± 3.855
200
150
100
50
0
pull
Entries 86
Mean −154.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean 0.02473
Std Dev 0.6881
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

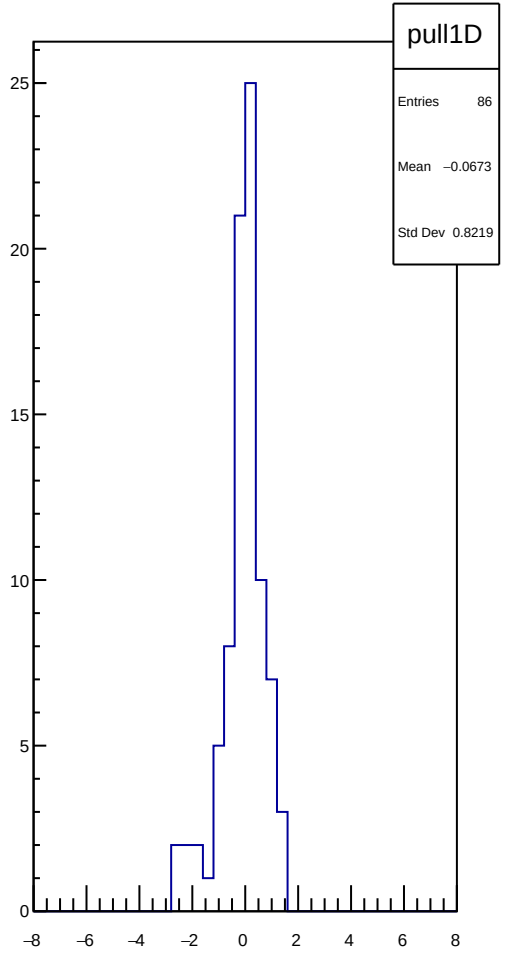

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 47.65 / 85
p0 −129.9 ± 0.1748
pull
Entries 86
Mean −213.2
Std Dev 0

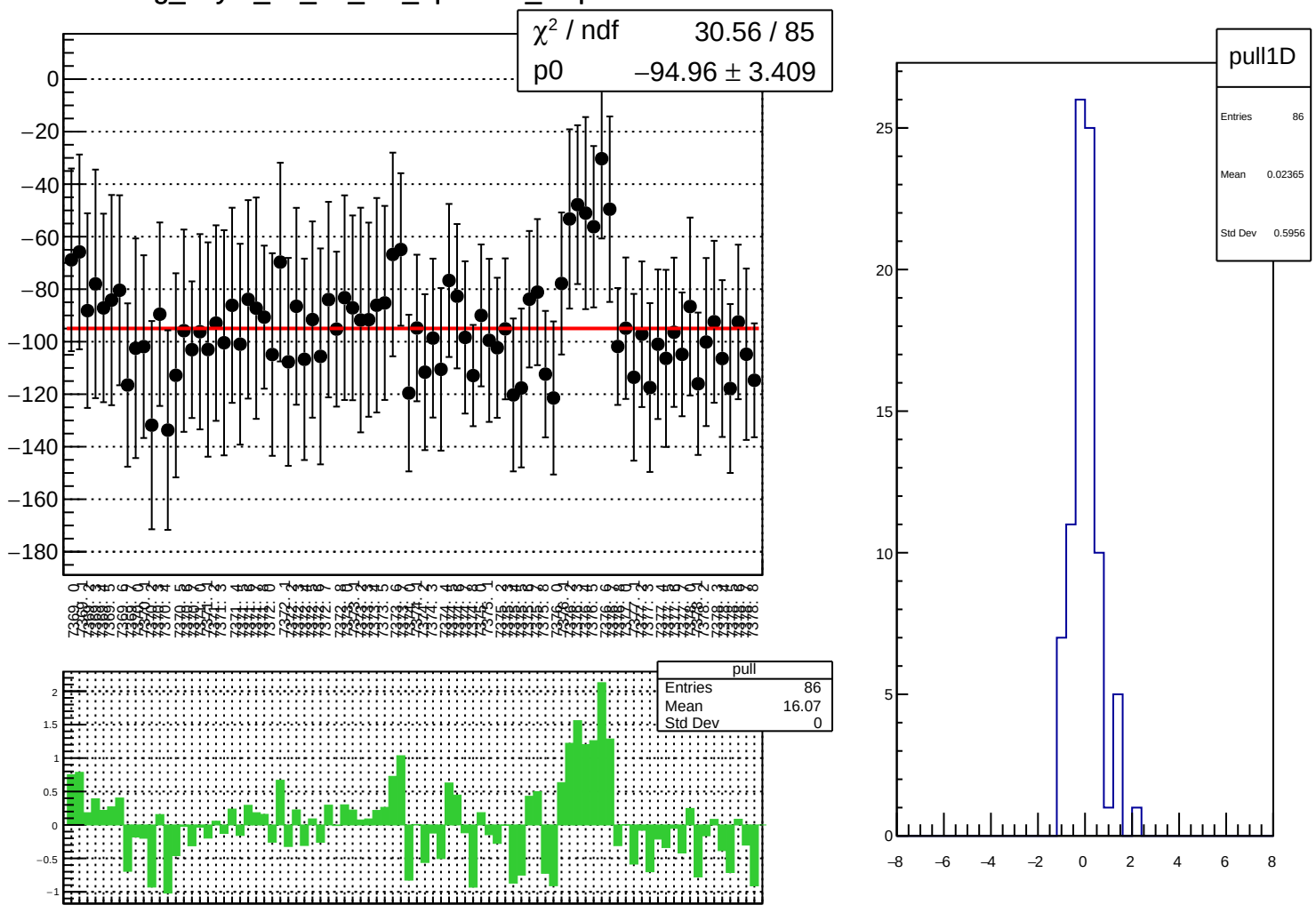

pull1D
Entries 86
Mean 0.04141
Std Dev 0.7432

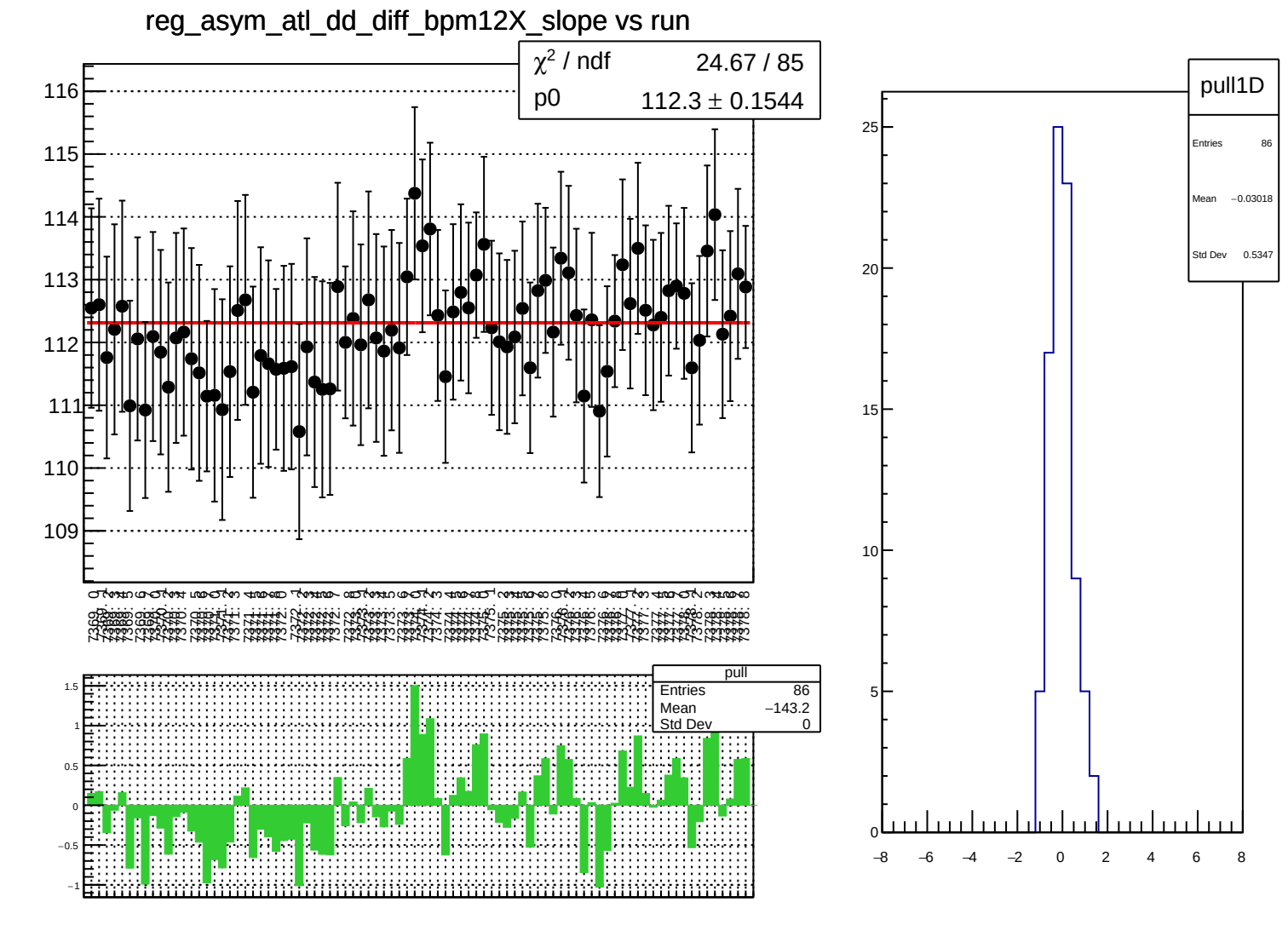

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 59.27 / 85
p0 152.9 ± 2.945
pull
Entries 86
Mean 84.4
Std Dev 22.02
pull1D
Entries 86
Mean 0.07054
Std Dev 0.8272

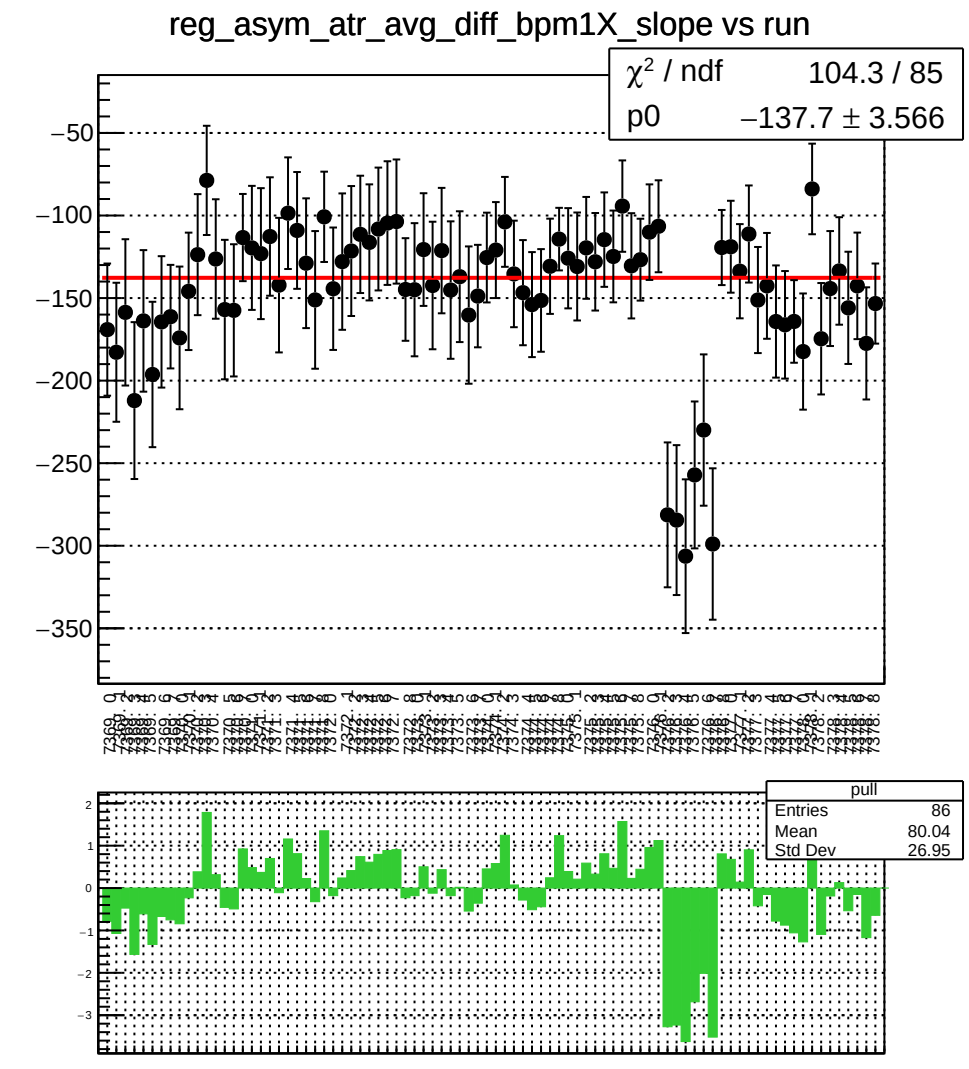

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.16 / 85
p0 27.04 ± 3.215
pull
Entries 86
Mean 24.72
Std Dev 0
pull1D
Entries 86
Mean −0.01209
Std Dev 0.6018

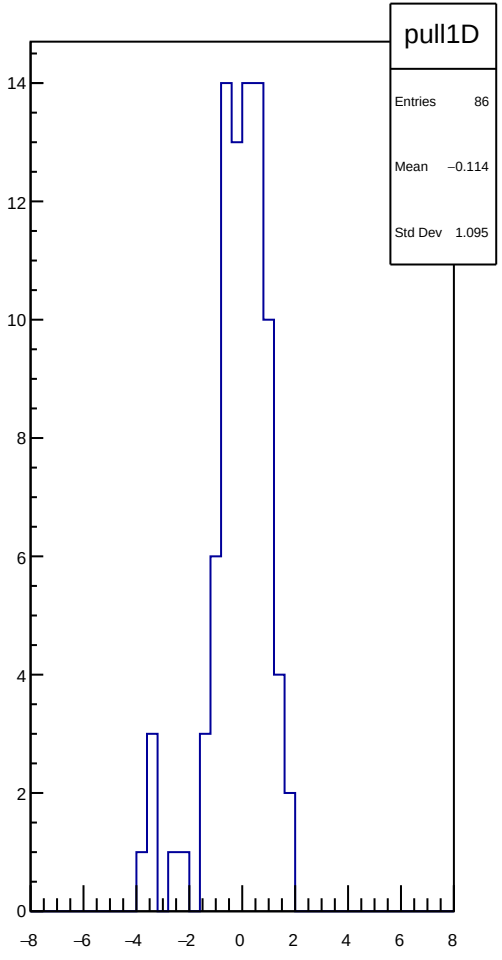

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.48 / 85
p0 −111.9 ± 3.055
−50
−100
−150
−200
−250
pull
Entries 86
Mean 91.53
Std Dev 13.36
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

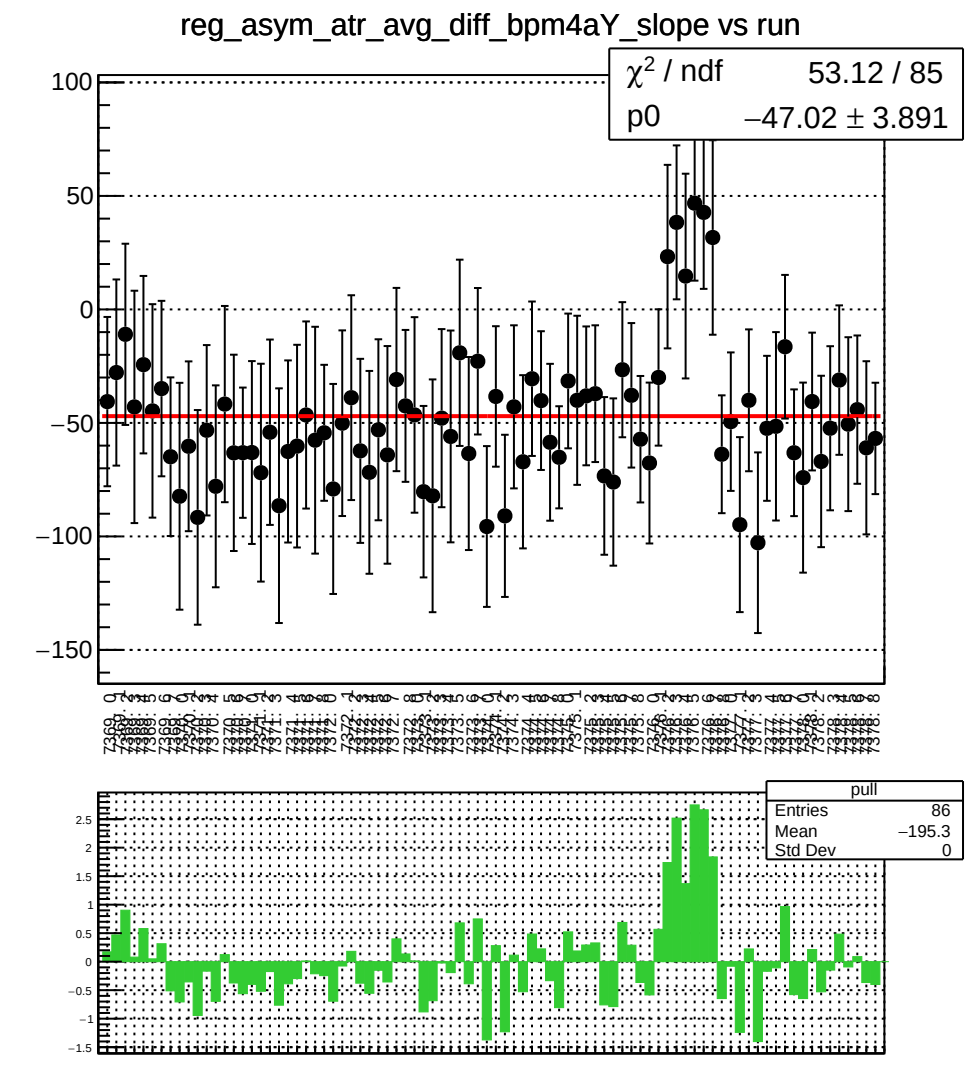

pull1D
Entries 86
Mean −0.0673
Std Dev 0.8219
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

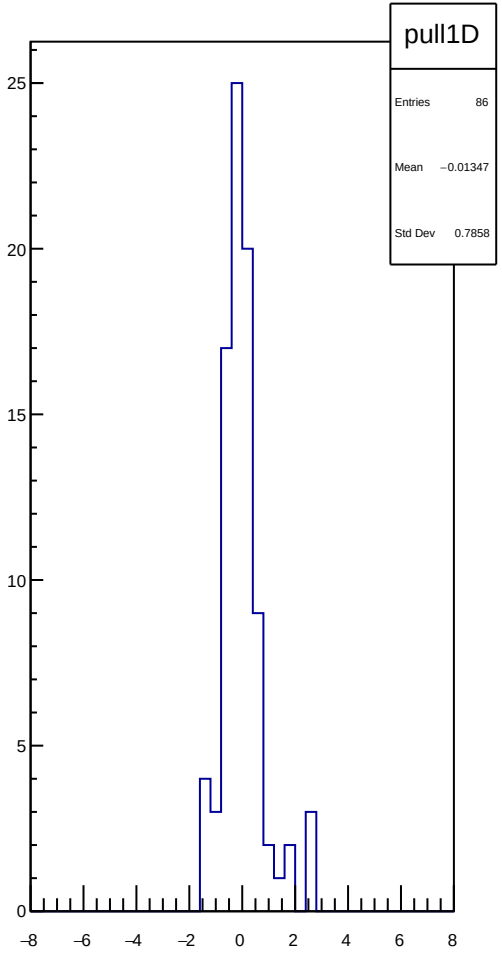

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.56 / 85
p0 −94.96 ± 3.409
pull
Entries 86
Mean 16.07
Std Dev 0
pull1D
Entries 86
Mean 0.02365
Std Dev 0.5956

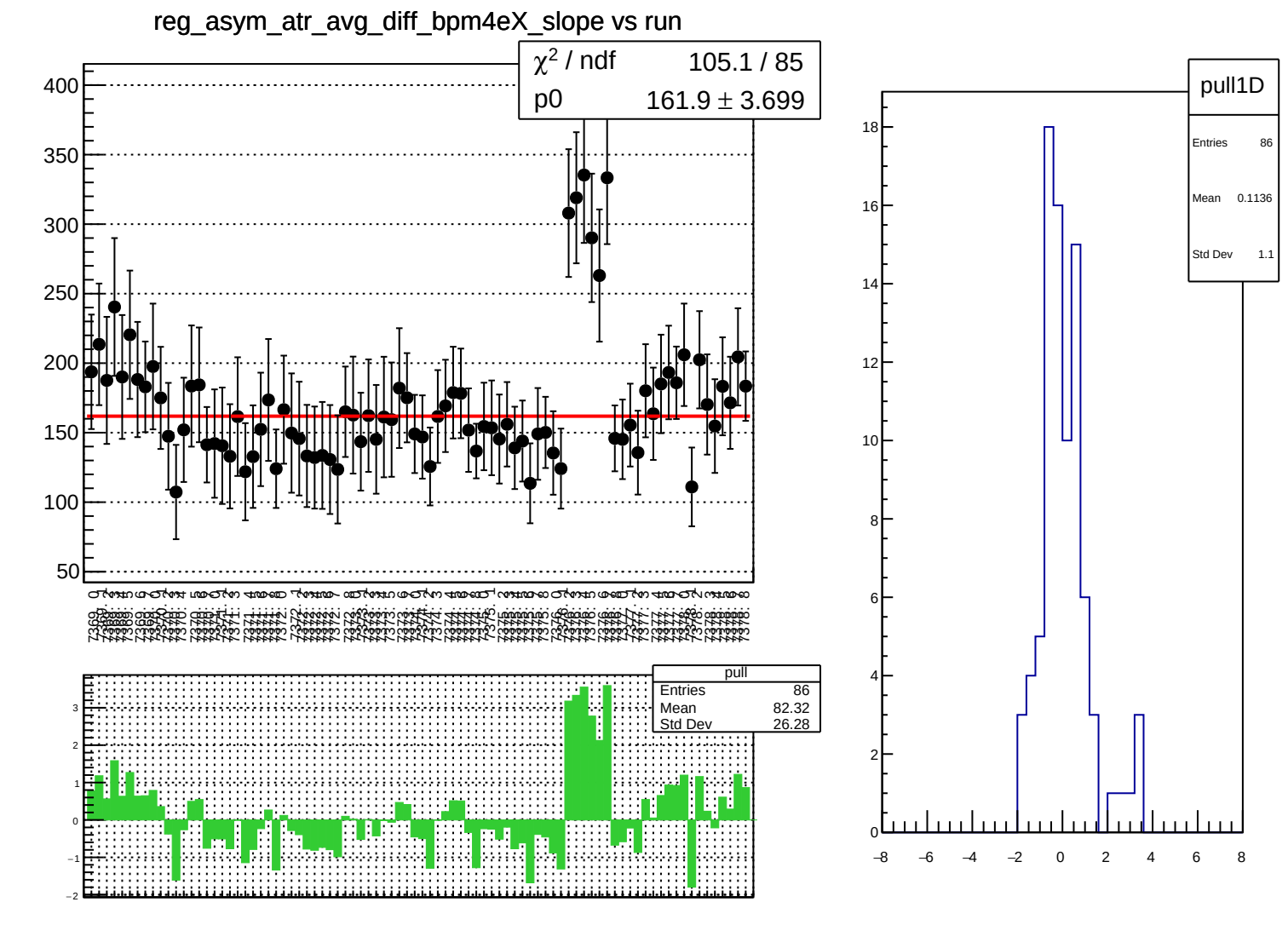

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 24.67 / 85
p0 112.3 ± 0.1544
pull
Entries 86
Mean −143.2
Std Dev 0
pull1D
Entries 86
Mean −0.03018
Std Dev 0.5347

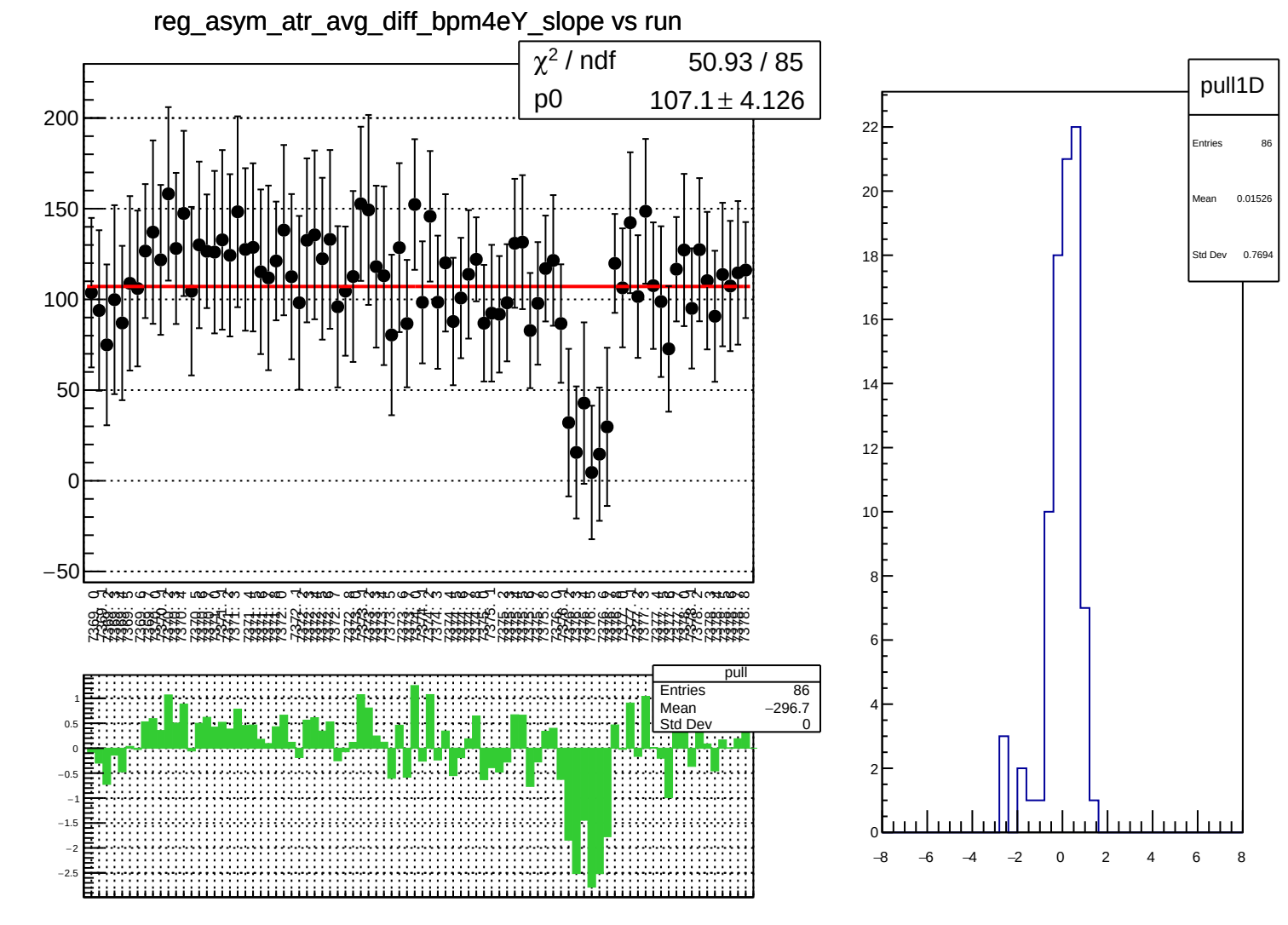

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 104.3 / 85
p0 −137.7 ± 3.566
pull
Entries 86
Mean 80.04
Std Dev 26.95

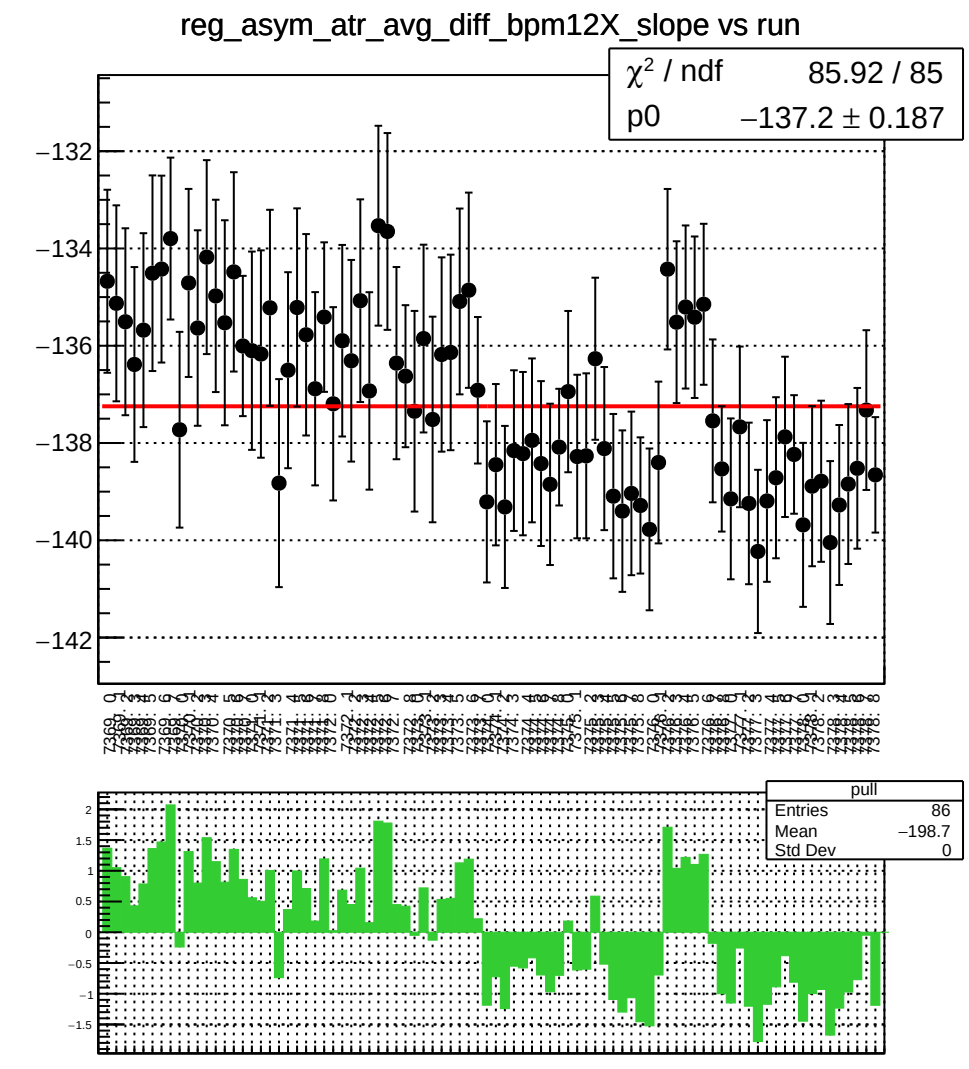

pull1D
Entries 86
Mean −0.114
Std Dev 1.095

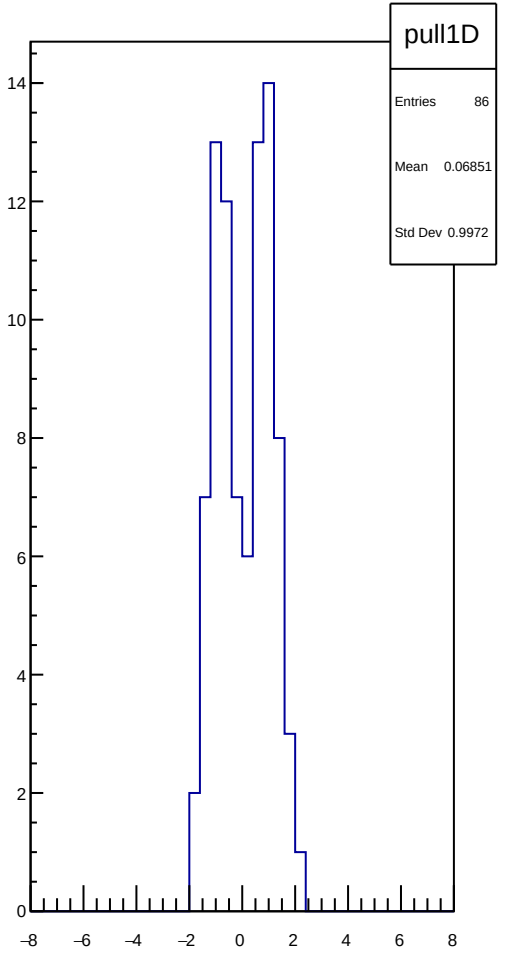

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.12 / 85
p0 −47.02 ± 3.891
pull
Entries 86
Mean −195.3
Std Dev 0

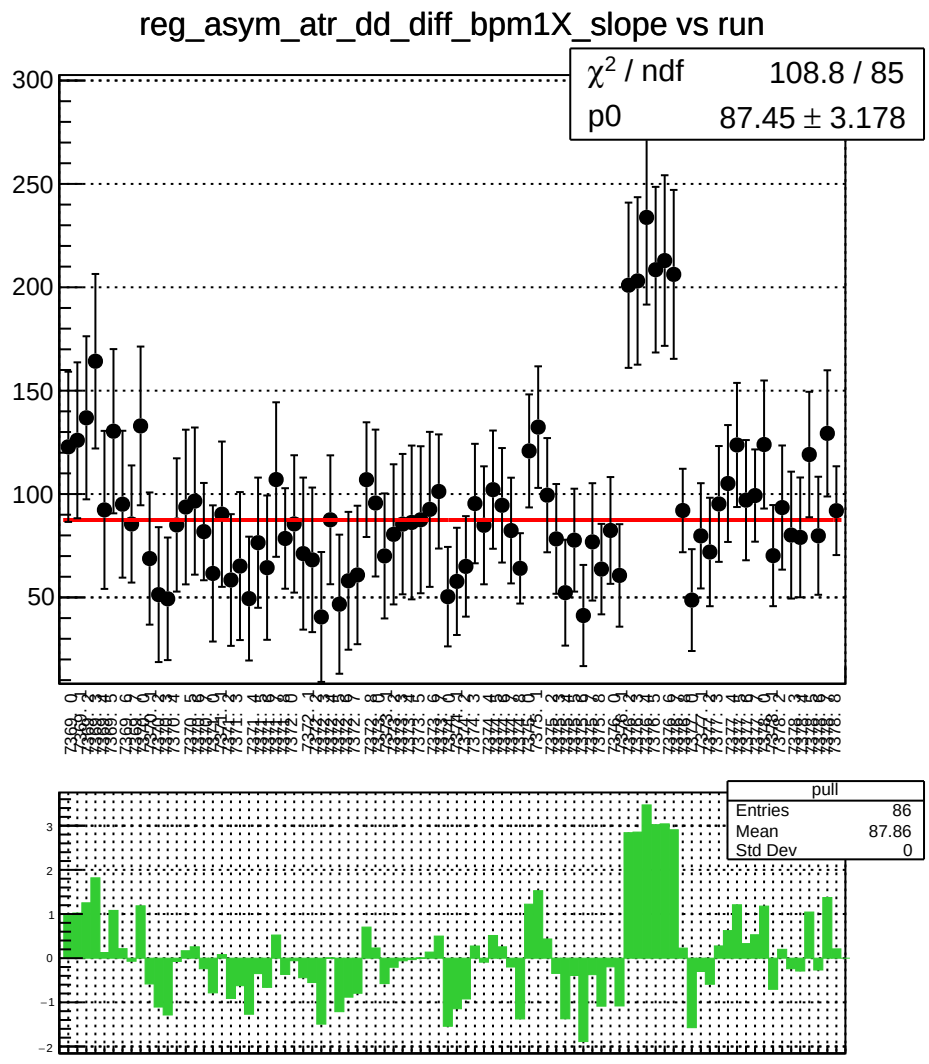

pull1D
Entries 86
Mean −0.01347
Std Dev 0.7858

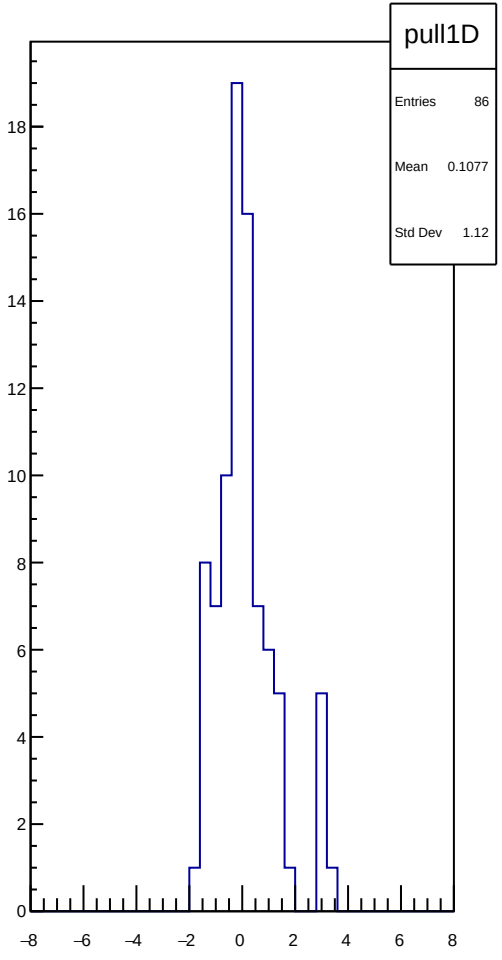

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 105.1 / 85
p0 161.9 ± 3.699
pull
Entries 86
Mean 82.32
Std Dev 26.28
pull1D
Entries 86
Mean 0.1136
Std Dev 1.1

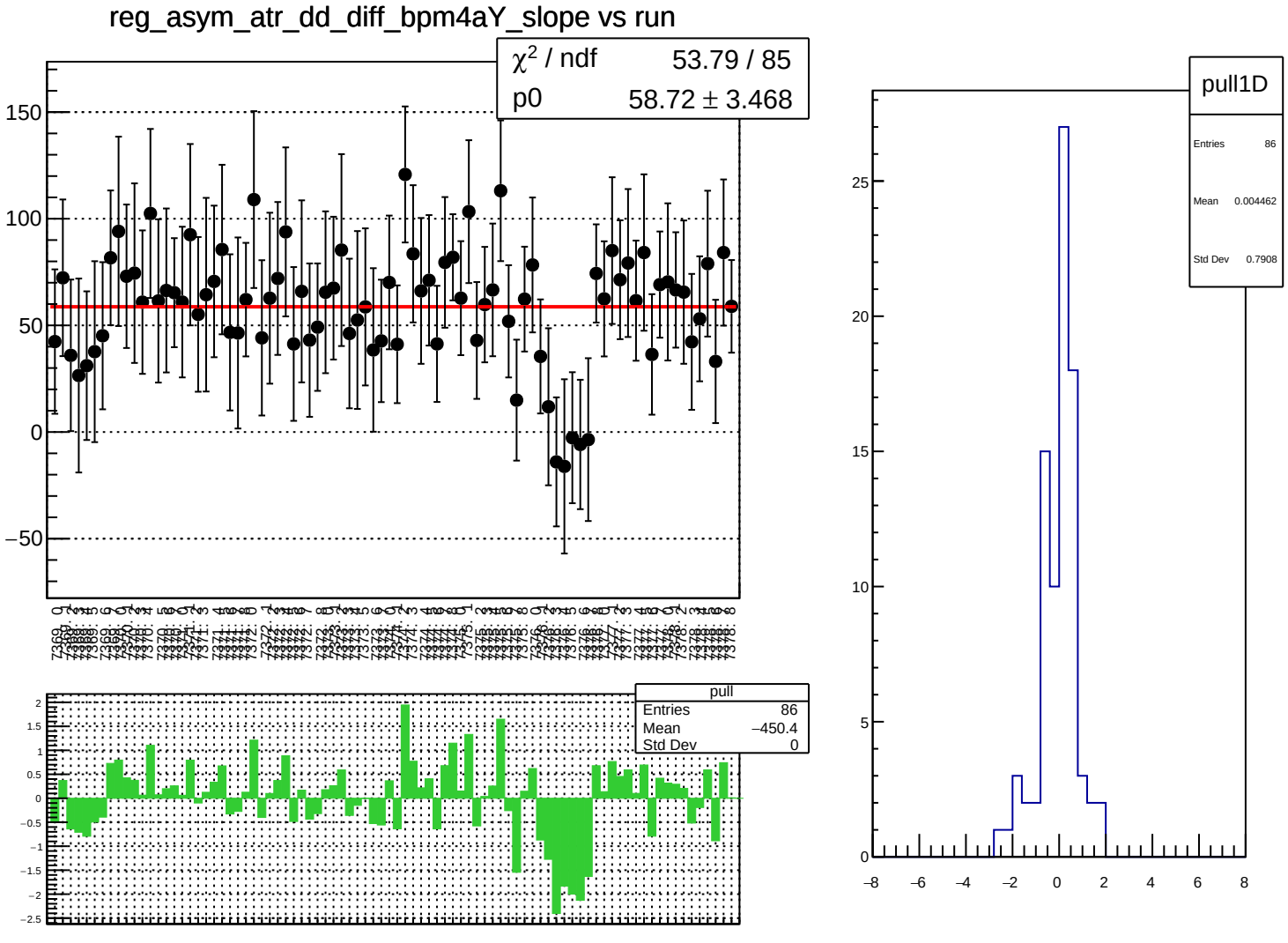

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 50.93 / 85
p0 107.1 ± 4.126
pull
Entries 86
Mean −296.7
Std Dev 0
pull1D
Entries 86
Mean 0.01526
Std Dev 0.7694

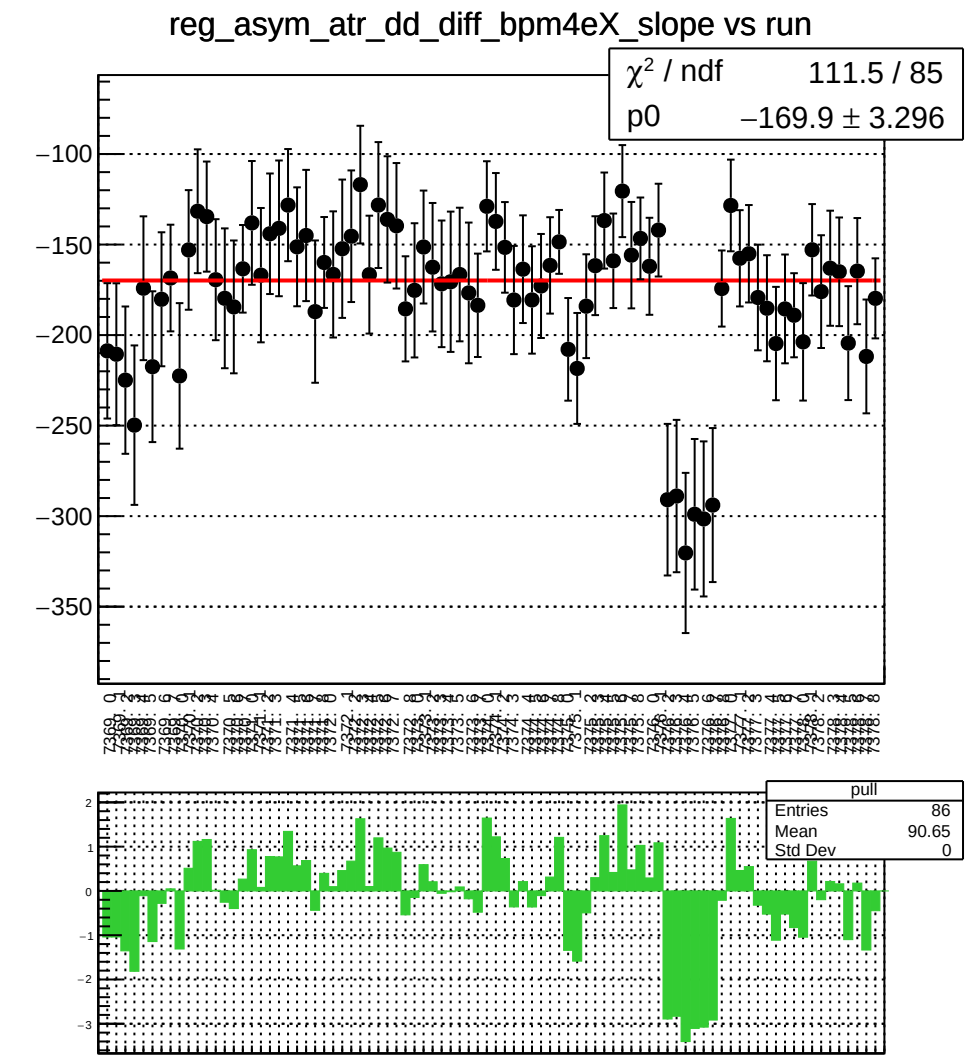

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 85.92 / 85
p0 −137.2 ± 0.187
−132
−134
−136
−138
−140
−142
pull
Entries 86
Mean −198.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

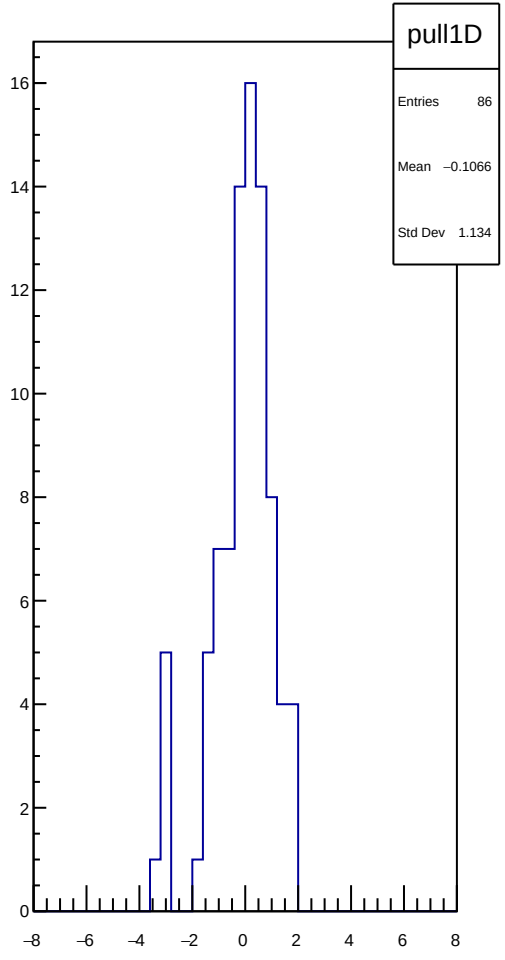

pull1D
Entries 86
Mean 0.06851
Std Dev 0.9972
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

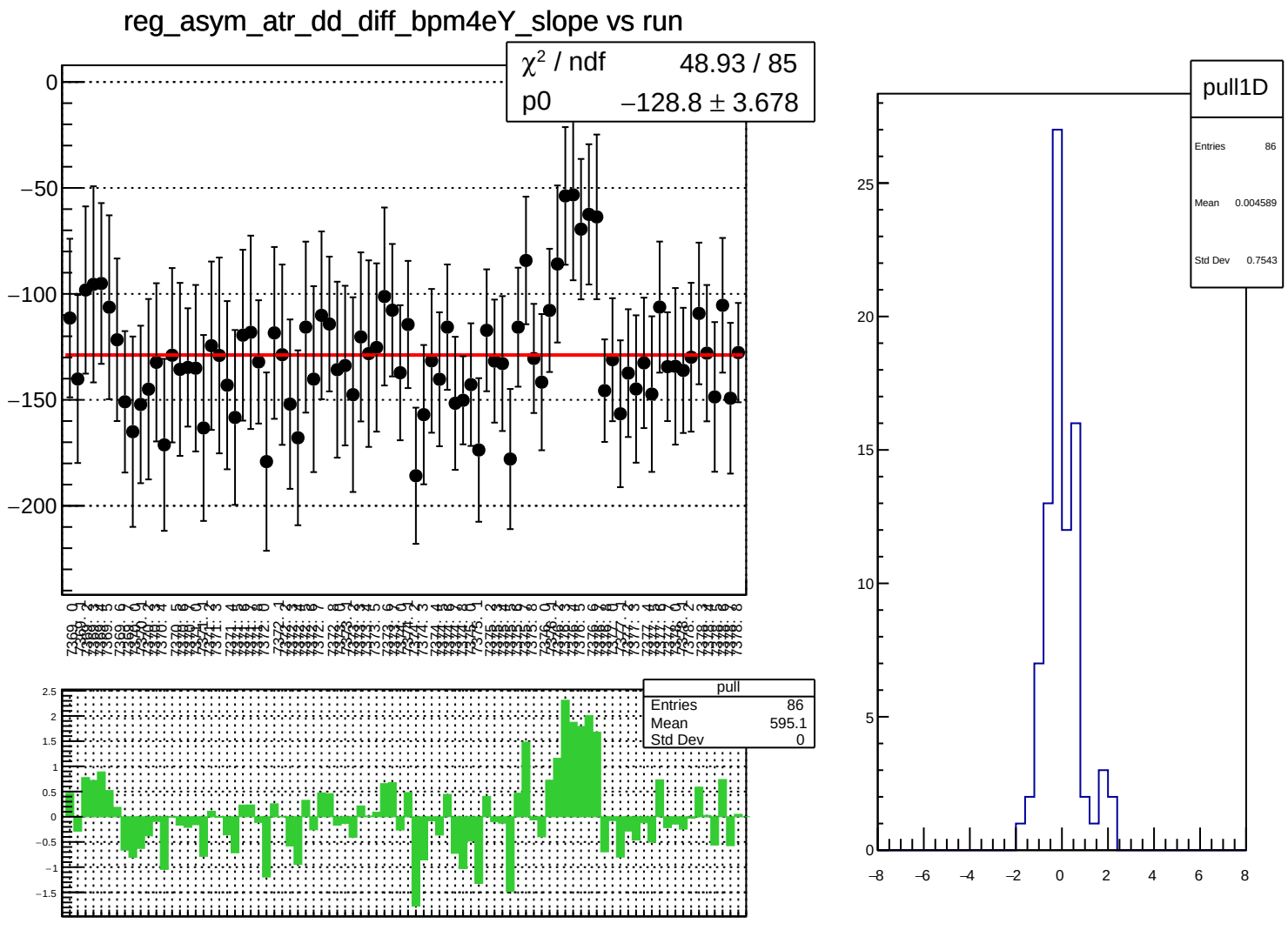

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 108.8 / 85
p0 87.45 ± 3.178
pull
Entries 86
Mean 87.86
Std Dev 0

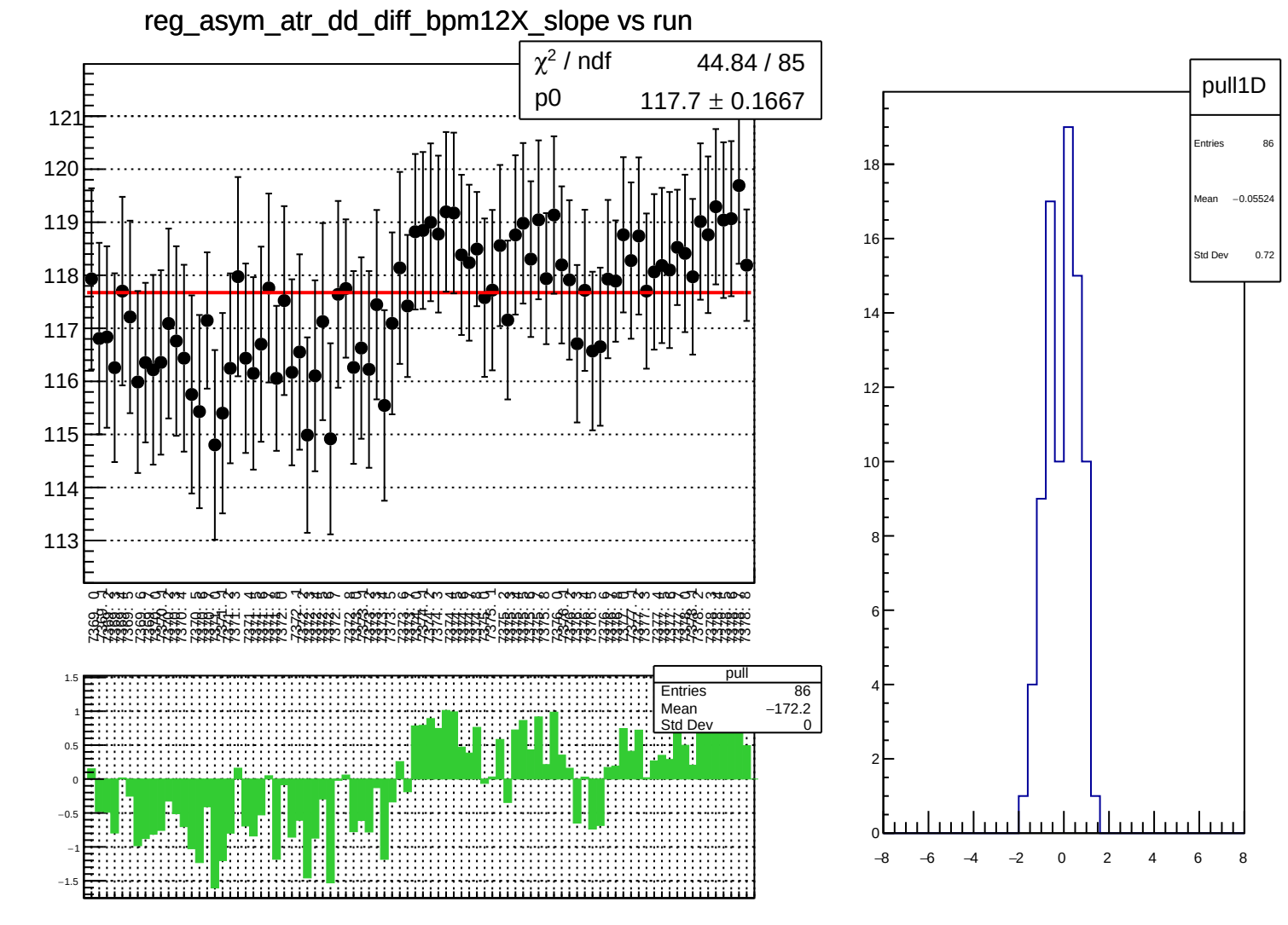

pull1D
Entries 86
Mean 0.1077
Std Dev 1.12

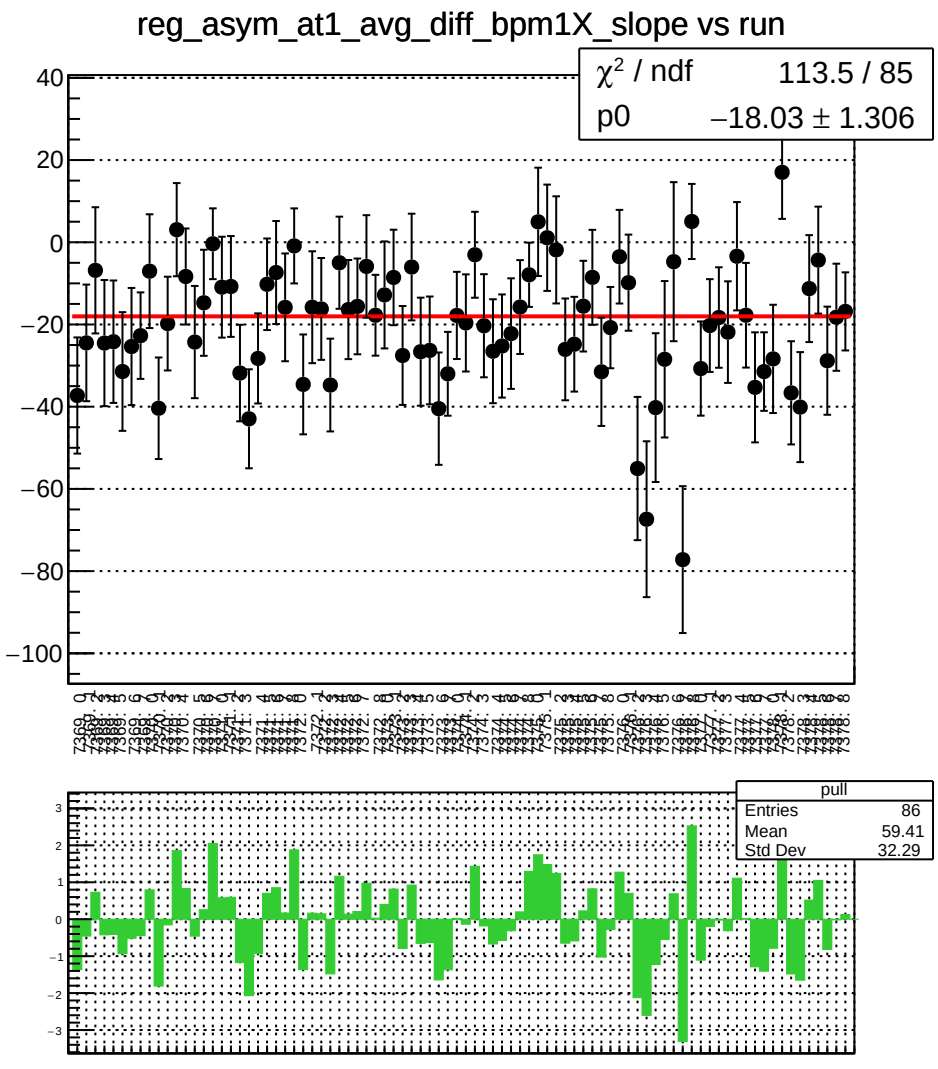

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.79 / 85
p0 58.72 ± 3.468
150
100
50
0
−50
pull
Entries 86
Mean −450.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 86
Mean 0.004462
Std Dev 0.7908
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

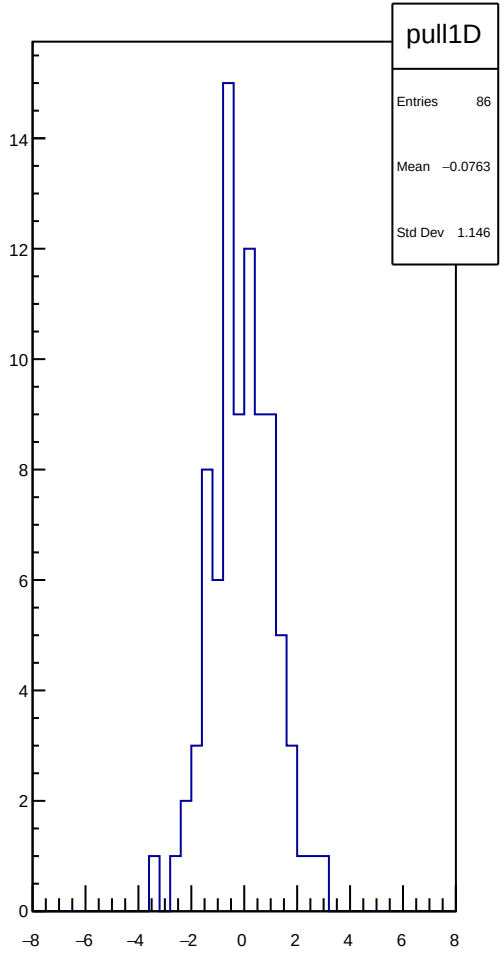

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 111.5 / 85
p0 −169.9 ± 3.296
−100
−150
−200
−250
−300
−350
pull
Entries 86
Mean 90.65
Std Dev 0
2
1
0
−1
−2
−3

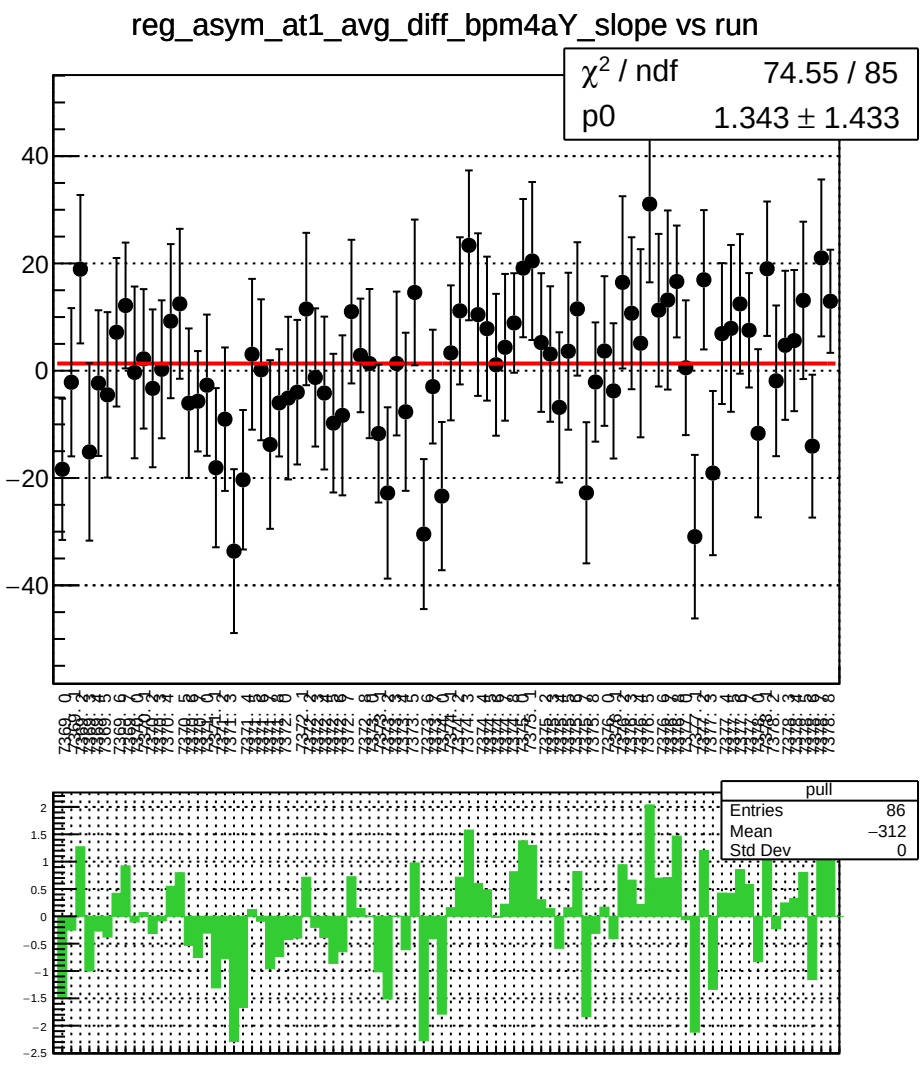

pull1D
Entries 86
Mean −0.1066
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

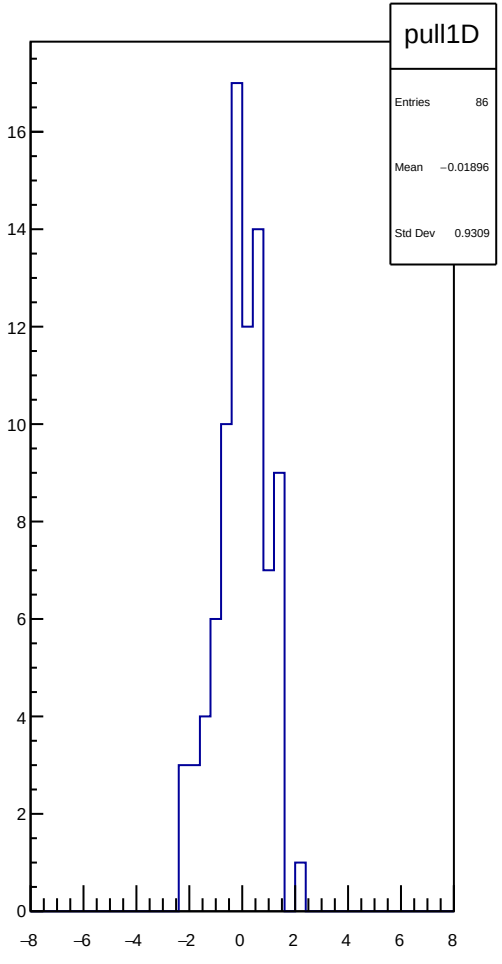

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.93 / 85
p0 −128.8 ± 3.678
0
−50
−100
−150
−200
pull
Entries 86
Mean 595.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.004589
Std Dev 0.7543
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

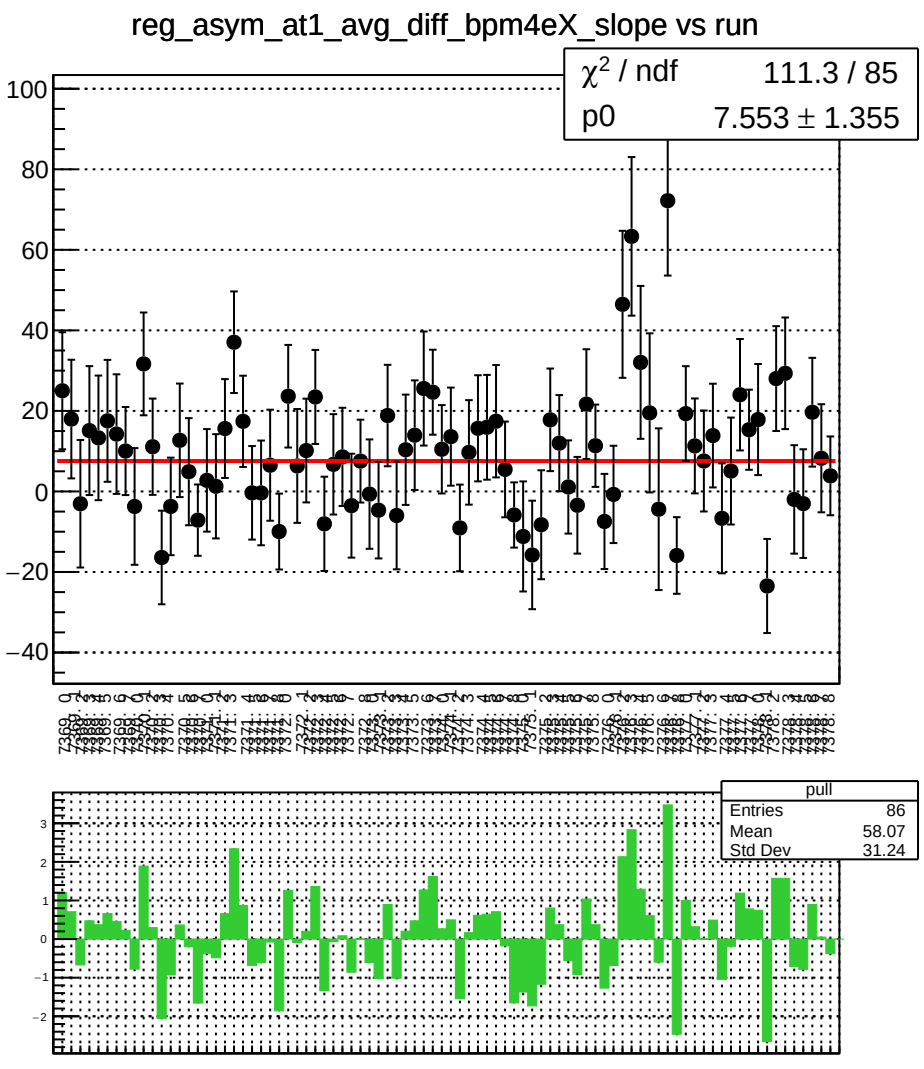

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 44.84 / 85
p0 117.7 ± 0.1667
121
120
119
118
117
116
115
114
113
pull
Entries 86
Mean −172.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean −0.05524
Std Dev 0.72
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

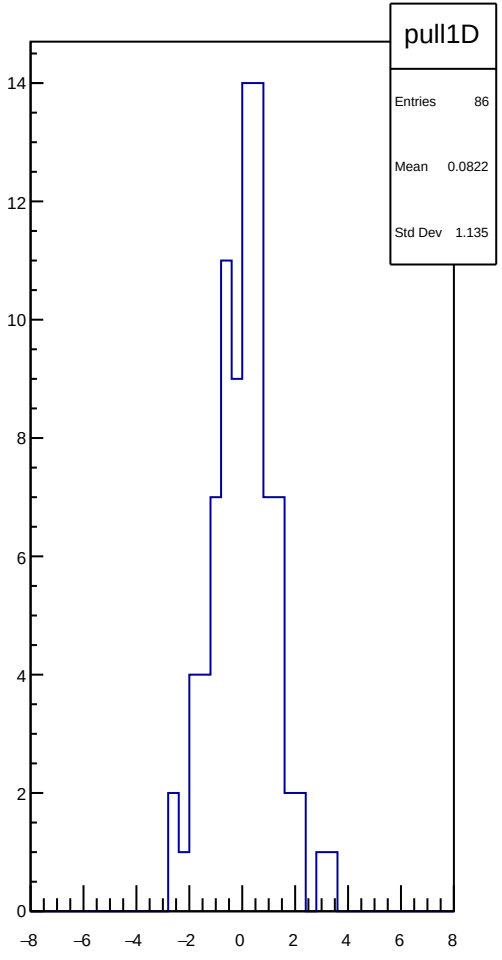

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 113.5 / 85
p0 −18.03 ± 1.306
pull
Entries 86
Mean 59.41
Std Dev 32.29

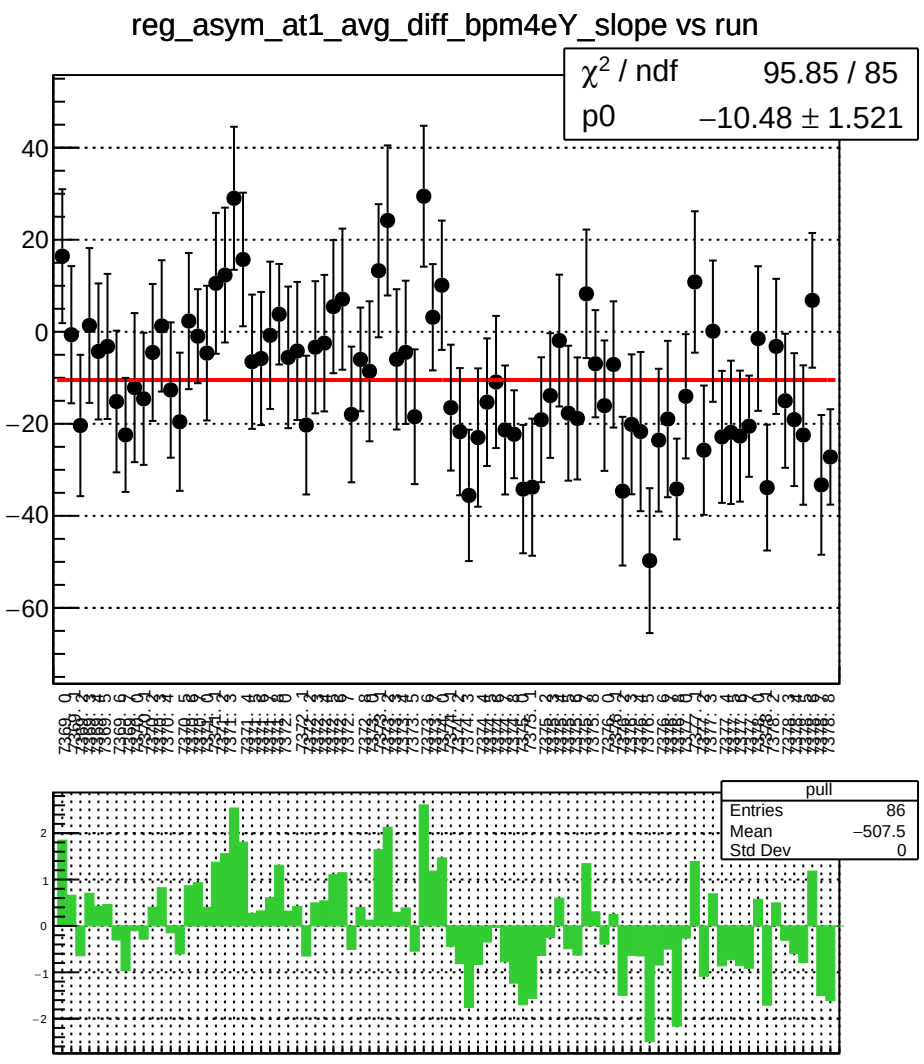

pull1D
Entries 86
Mean −0.0763
Std Dev 1.146

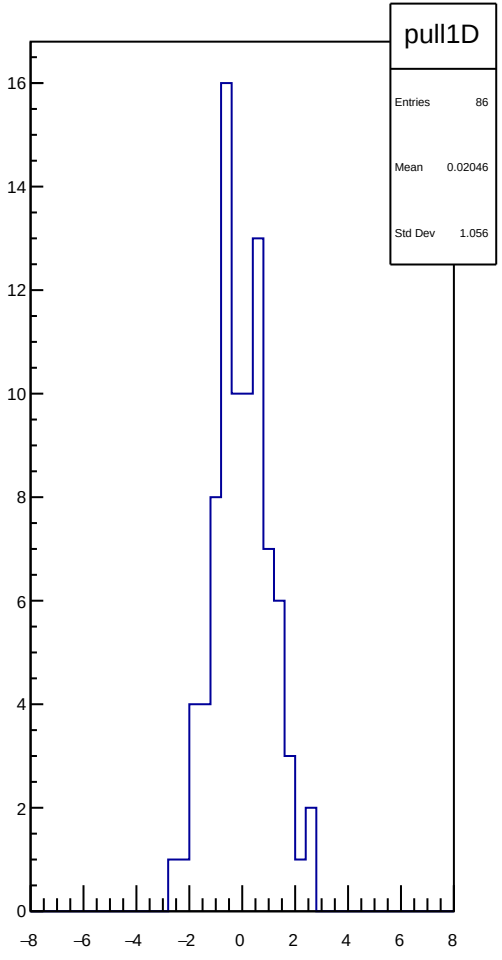

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 74.55 / 85
p0 1.343 ± 1.433
pull
Entries 86
Mean −312
Std Dev 0

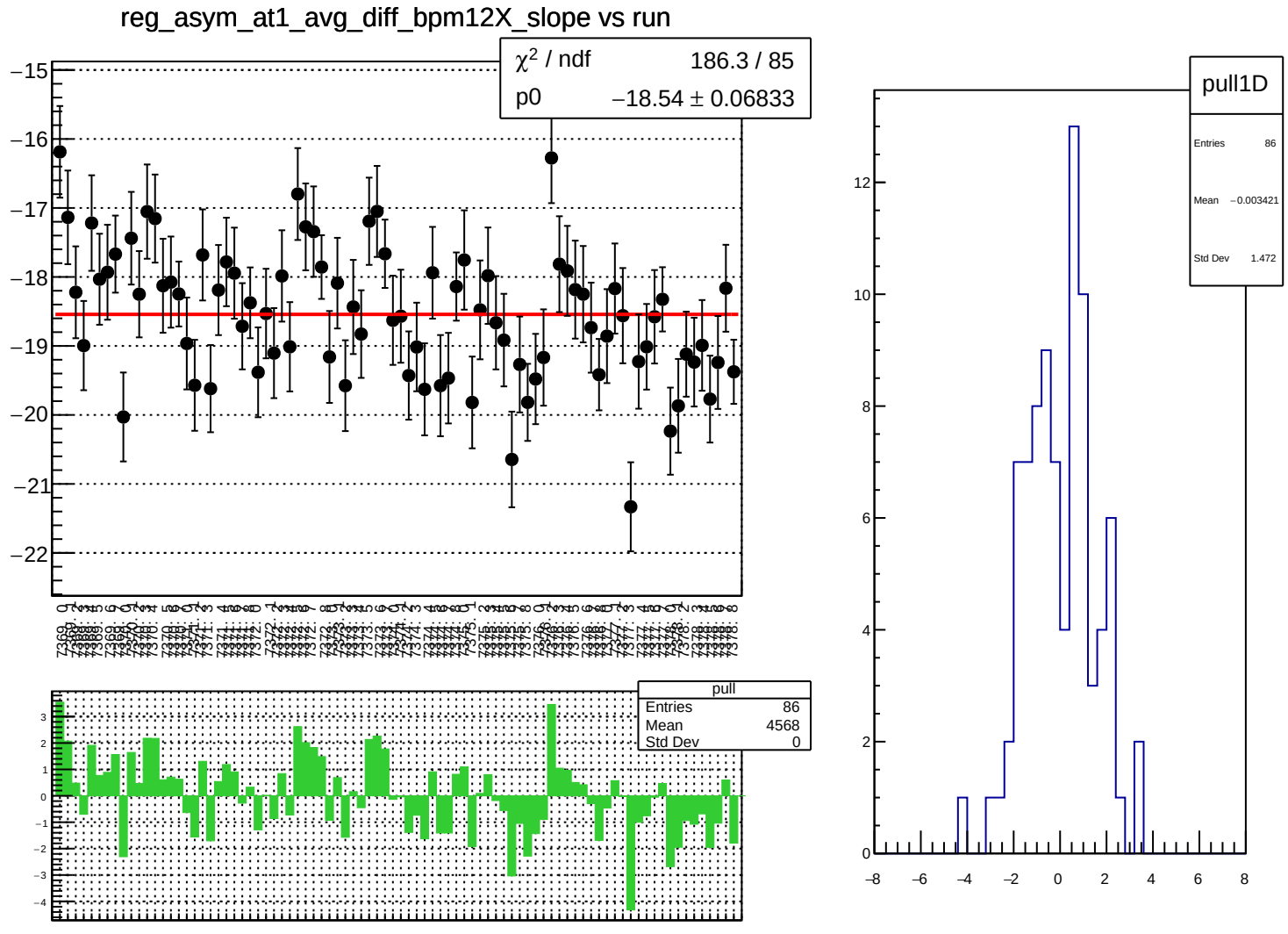

pull1D
Entries 86
Mean −0.01896
Std Dev 0.9309

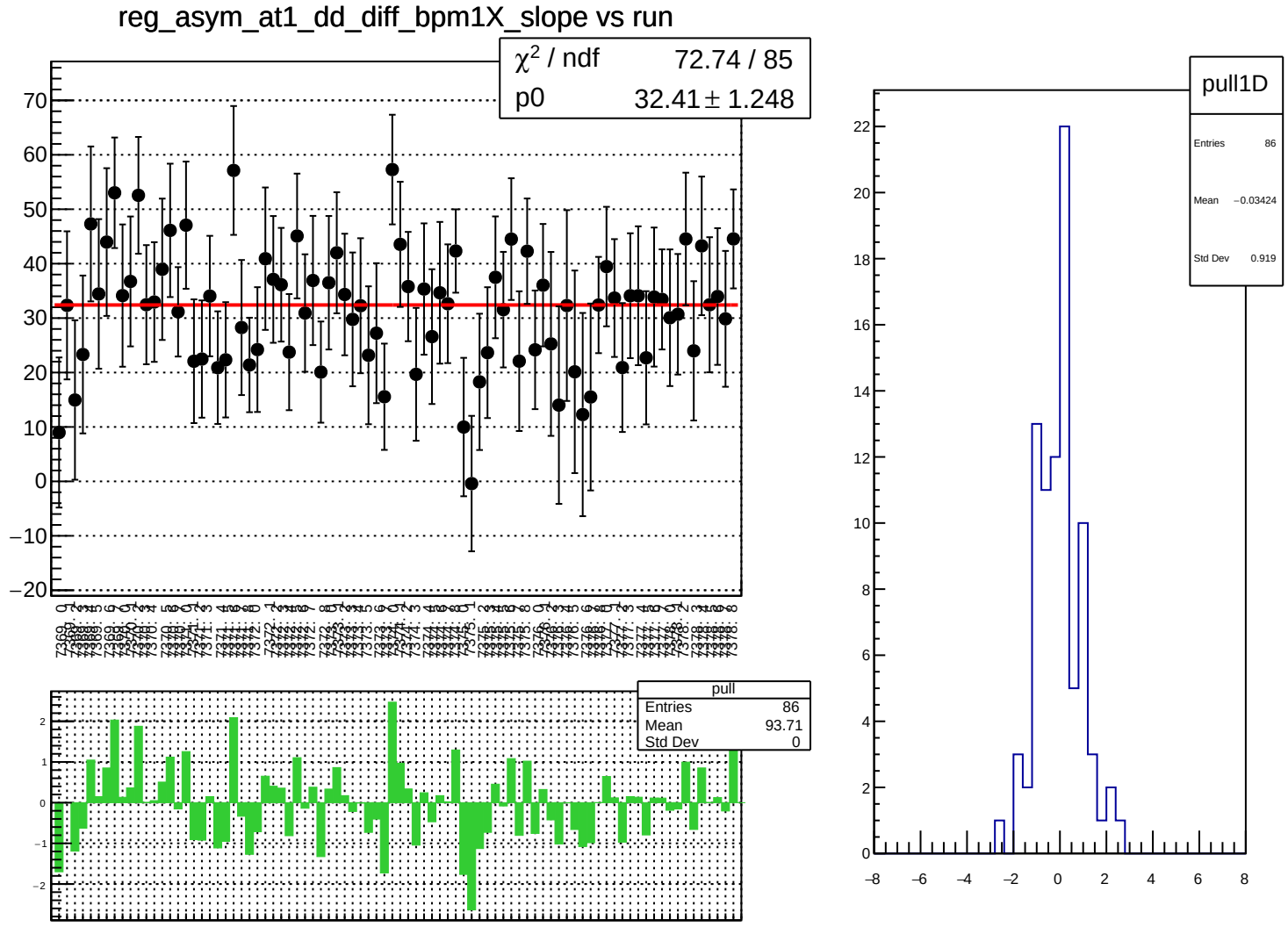

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 111.3 / 85
p0 7.553 ± 1.355
pull
Entries 86
Mean 58.07
Std Dev 31.24

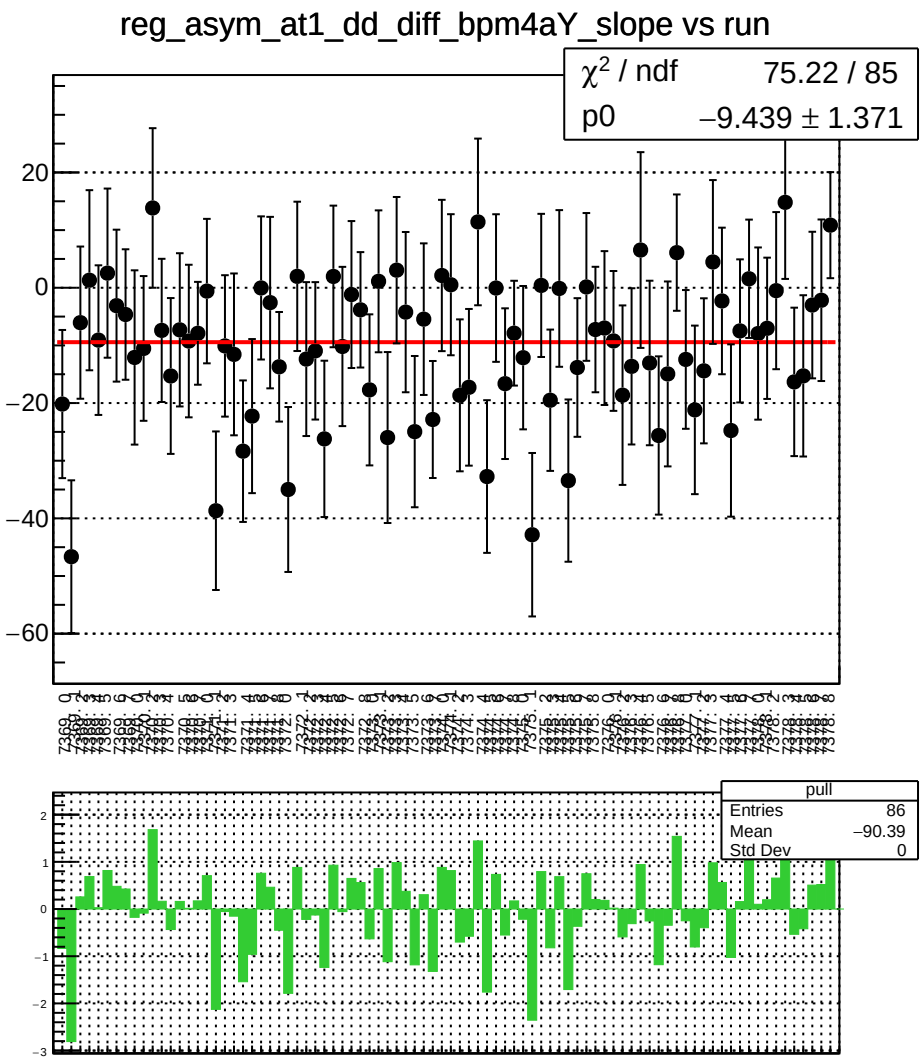

pull1D
Entries 86
Mean 0.0822
Std Dev 1.135

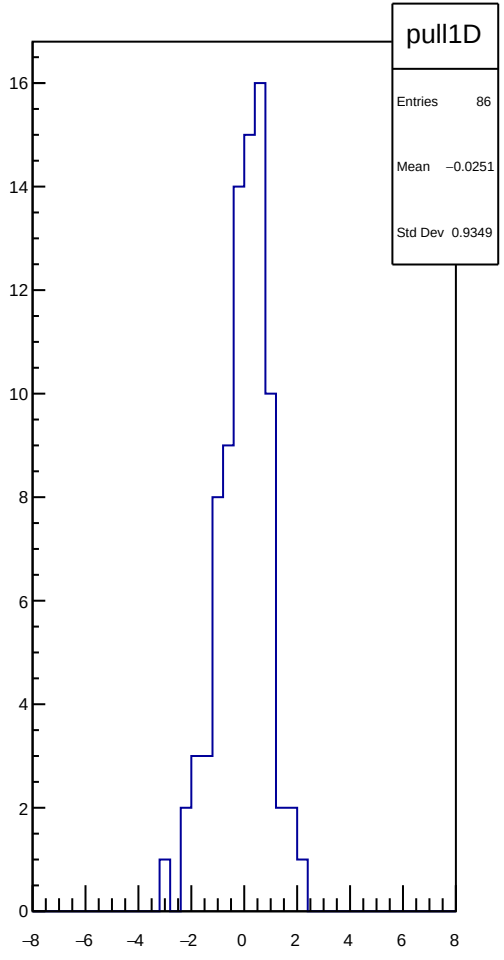

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 95.85 / 85
p0 −10.48 ± 1.521
pull
Entries 86
Mean −507.5
Std Dev 0

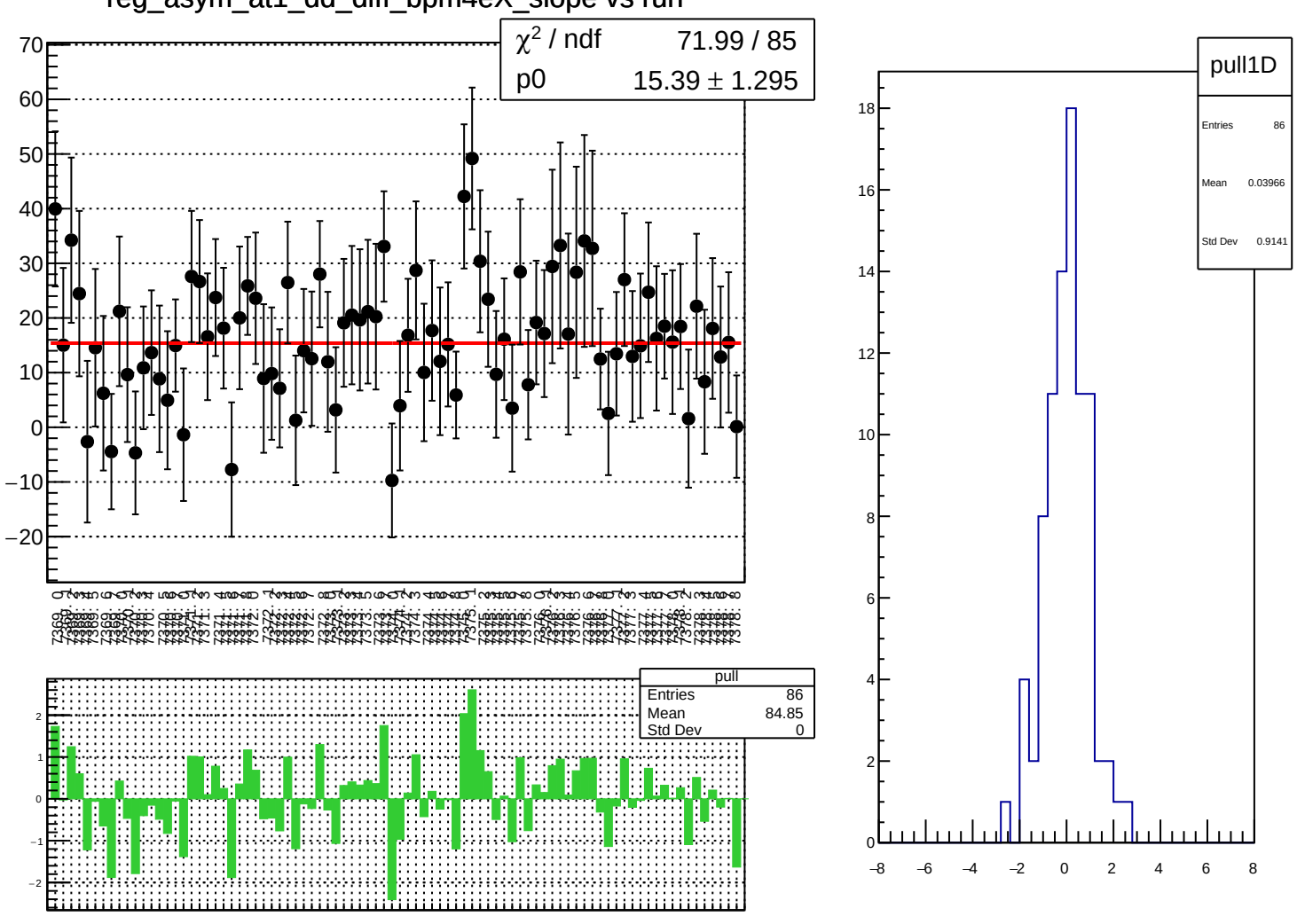

pull1D
Entries 86
Mean 0.02046
Std Dev 1.056

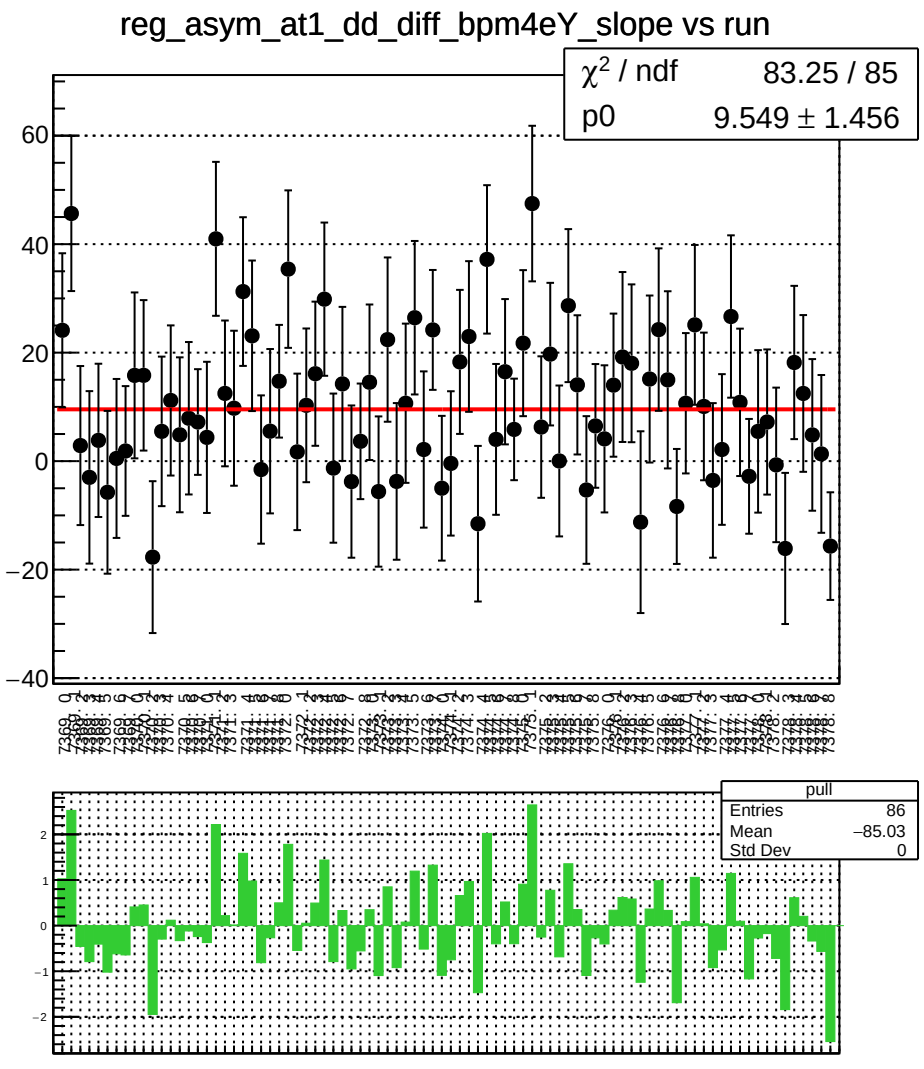

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 186.3 / 85
p0 −18.54 ± 0.06833
pull
Entries 86
Mean 4568
Std Dev 0
pull1D
Entries 86
Mean −0.003421
Std Dev 1.472

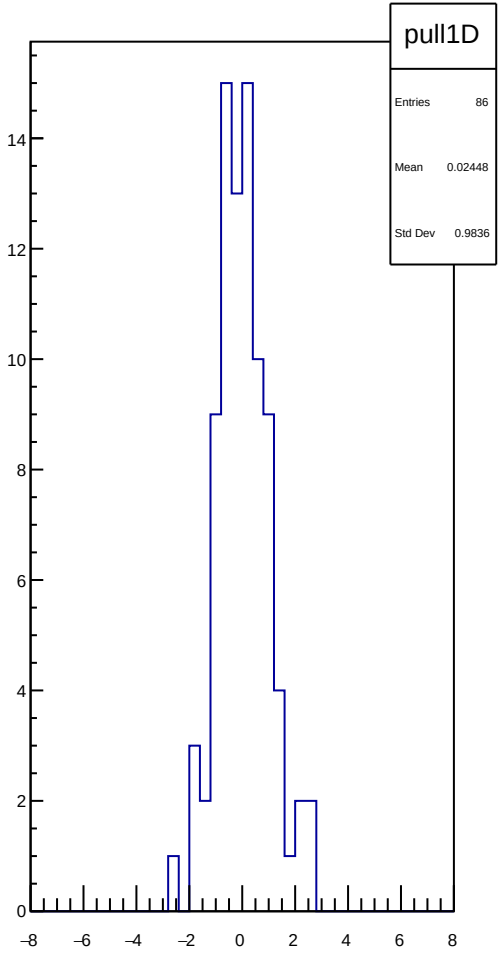

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 72.74 / 85
p0 32.41 ± 1.248
pull
Entries 86
Mean 93.71
Std Dev 0
pull1D
Entries 86
Mean −0.03424
Std Dev 0.919

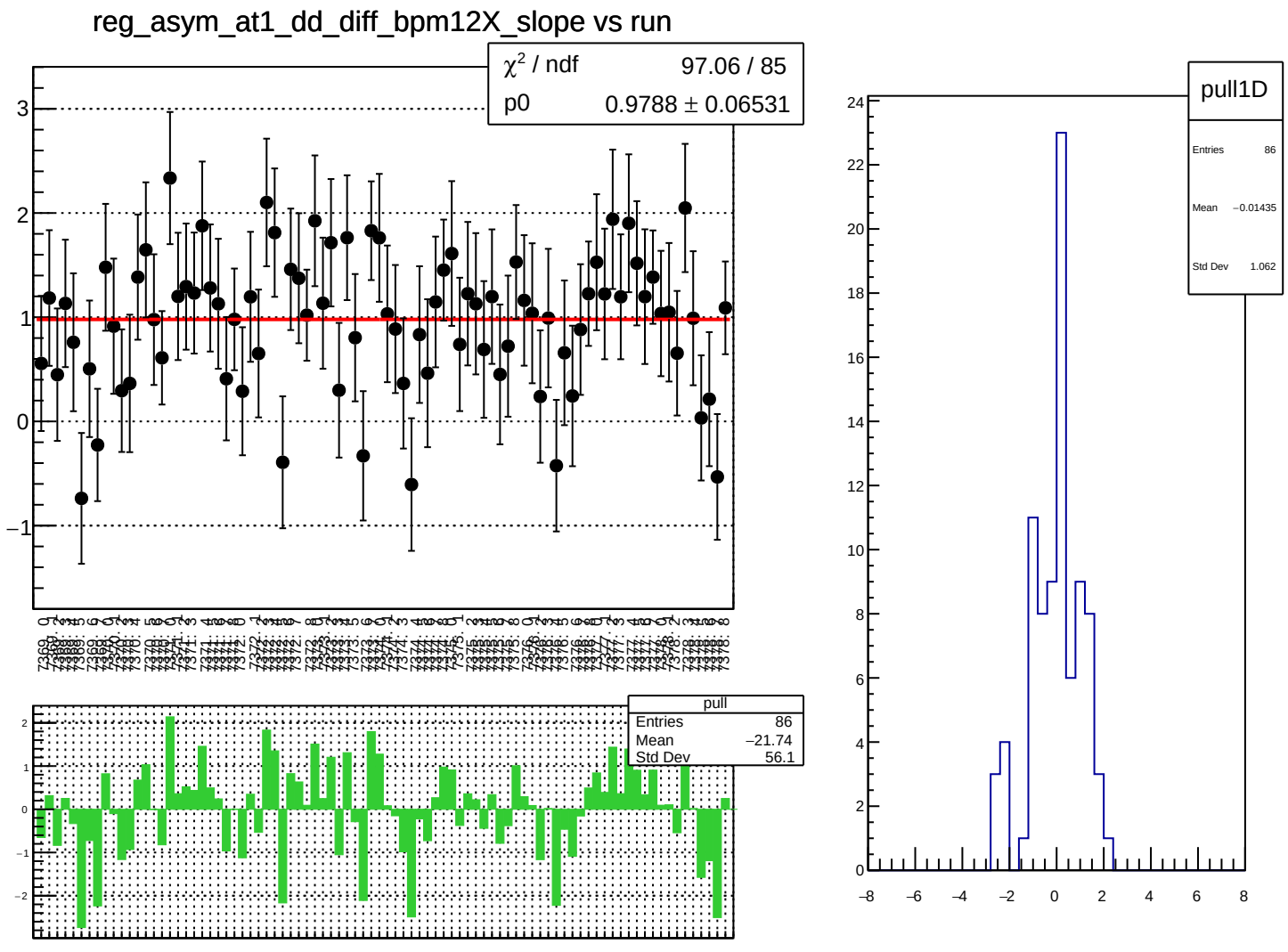

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.22 / 85
p0 −9.439 ± 1.371
20
0
−20
−40
−60
pull
Entries 86
Mean −90.39
Std Dev 0
2
1
0
−1
−2
−3

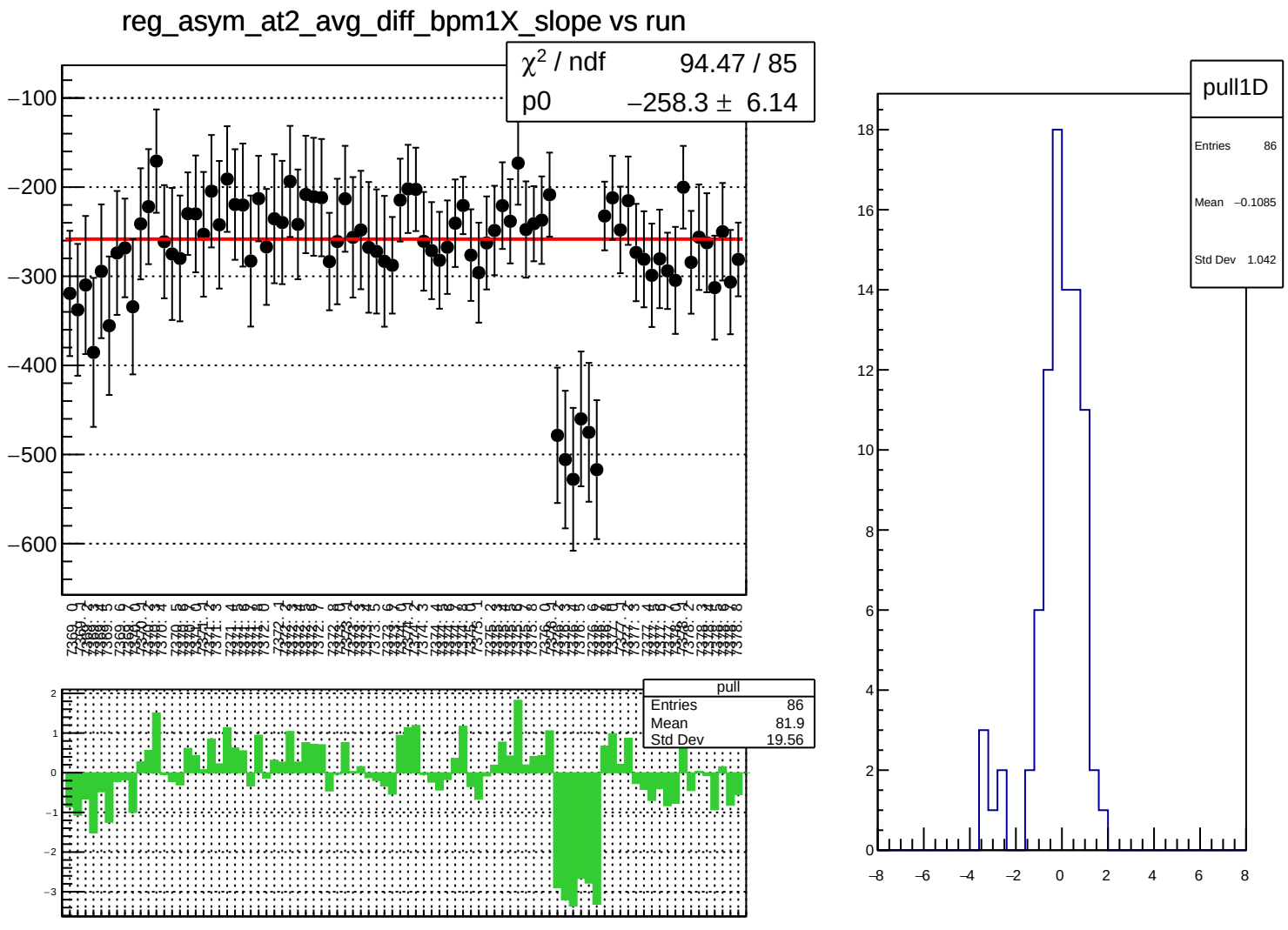

pull1D
Entries 86
Mean −0.0251
Std Dev 0.9349
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

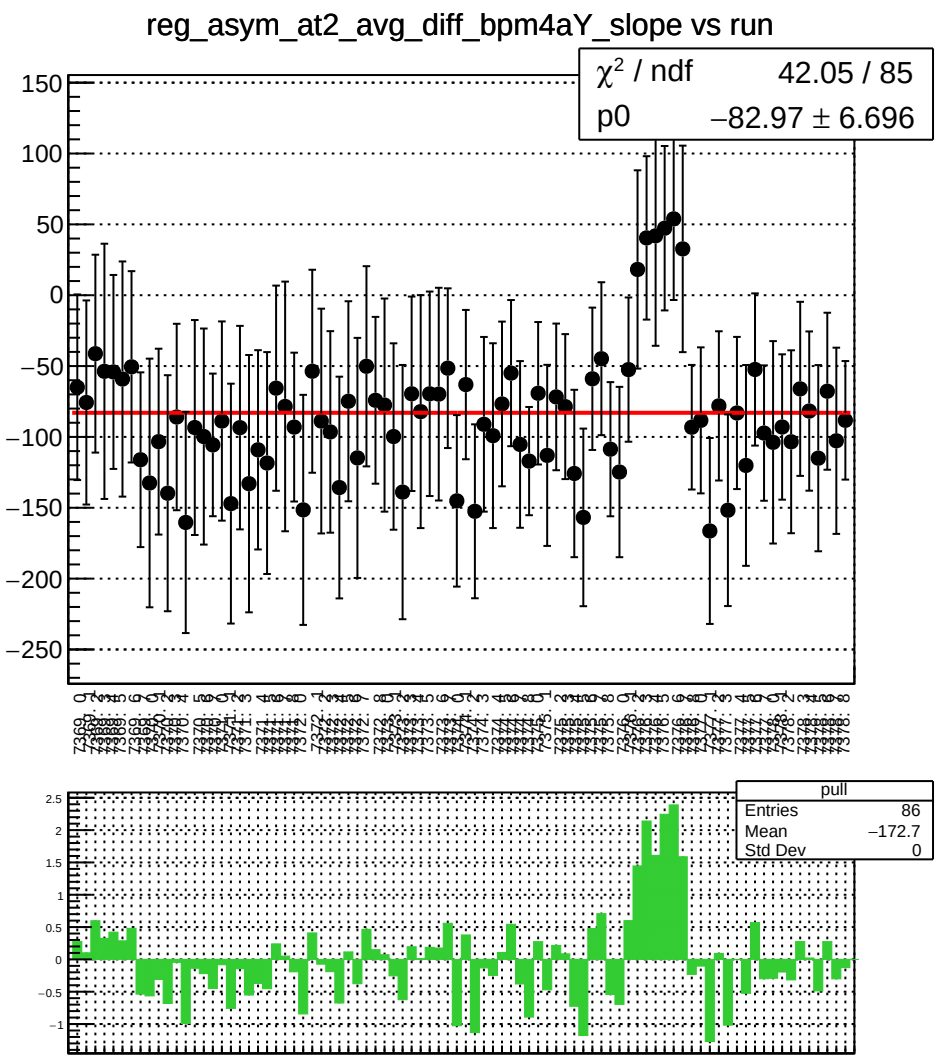

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 71.99 / 85
p0 15.39 ± 1.295
pull
Entries 86
Mean 84.85
Std Dev 0
pull1D
Entries 86
Mean 0.03966
Std Dev 0.9141

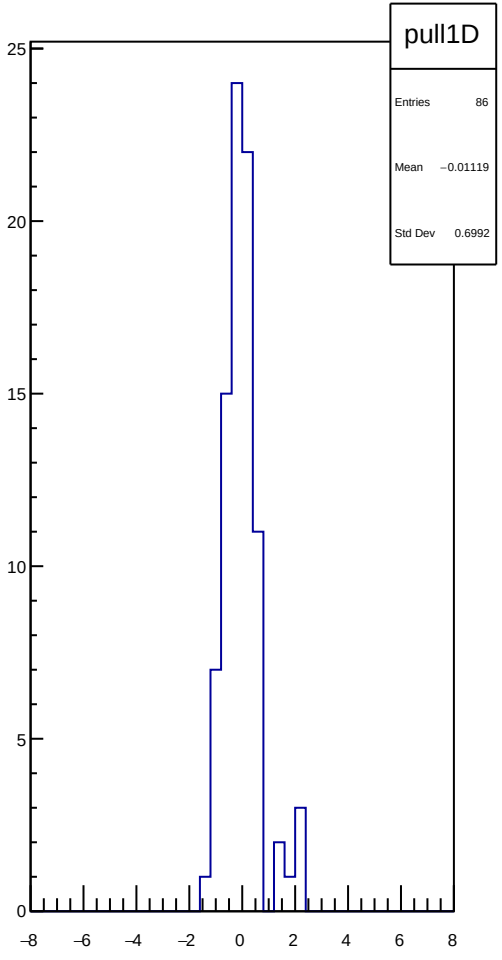

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 83.25 / 85
p0 9.549 ± 1.456
pull
Entries 86
Mean −85.03
Std Dev 0

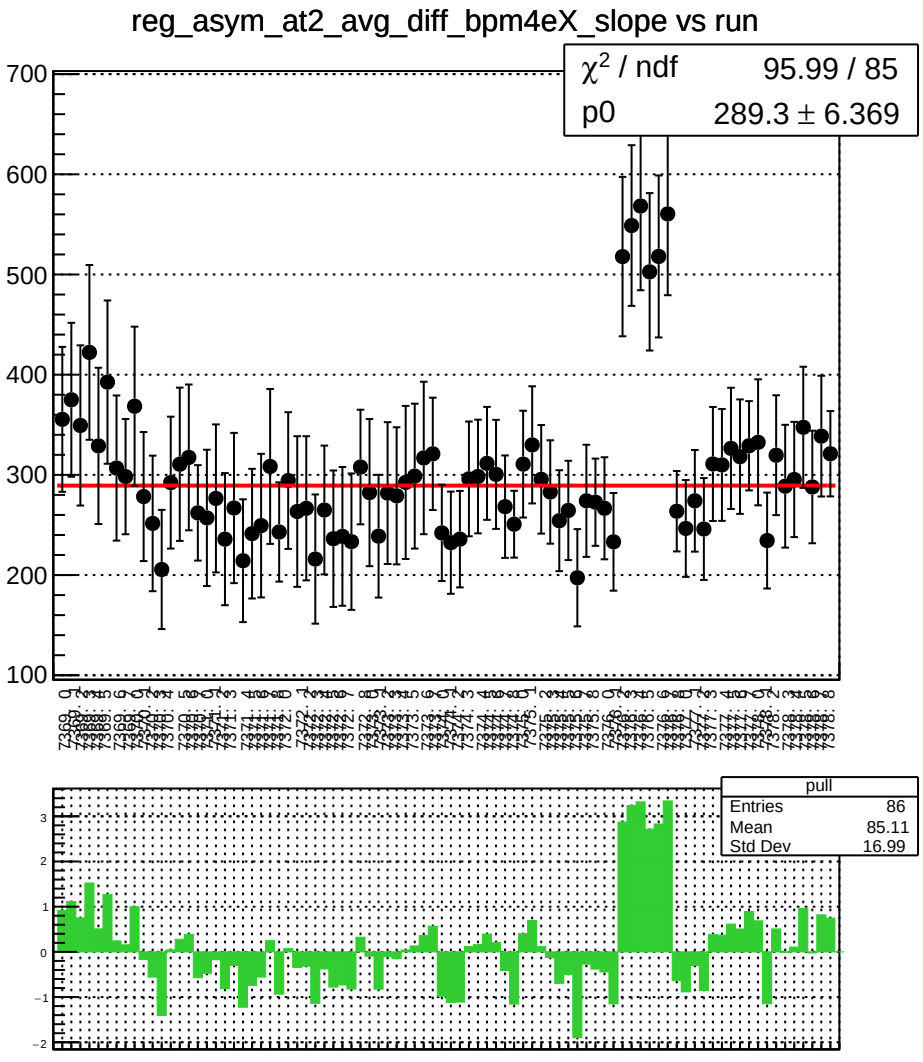

pull1D
Entries 86
Mean 0.02448
Std Dev 0.9836

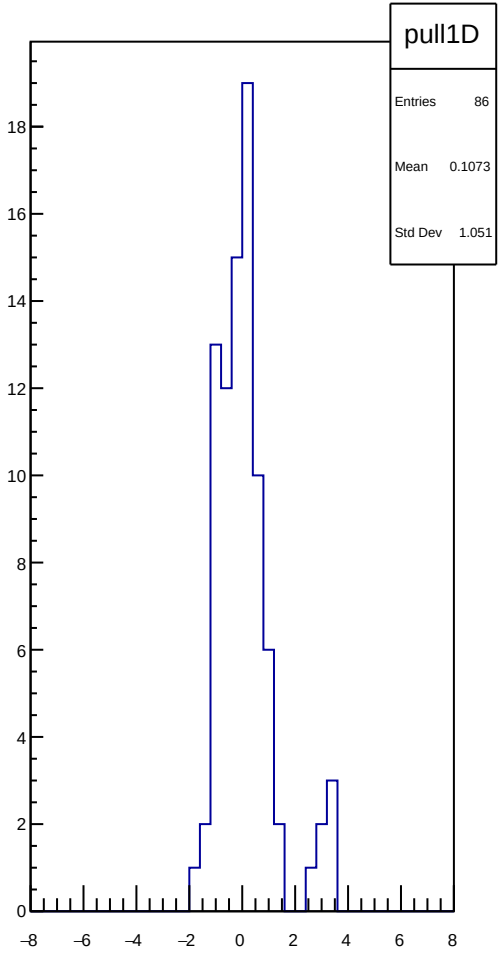

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 97.06 / 85
p0 0.9788 ± 0.06531
pull
Entries 86
Mean −21.74
Std Dev 56.1
pull1D
Entries 86
Mean −0.01435
Std Dev 1.062

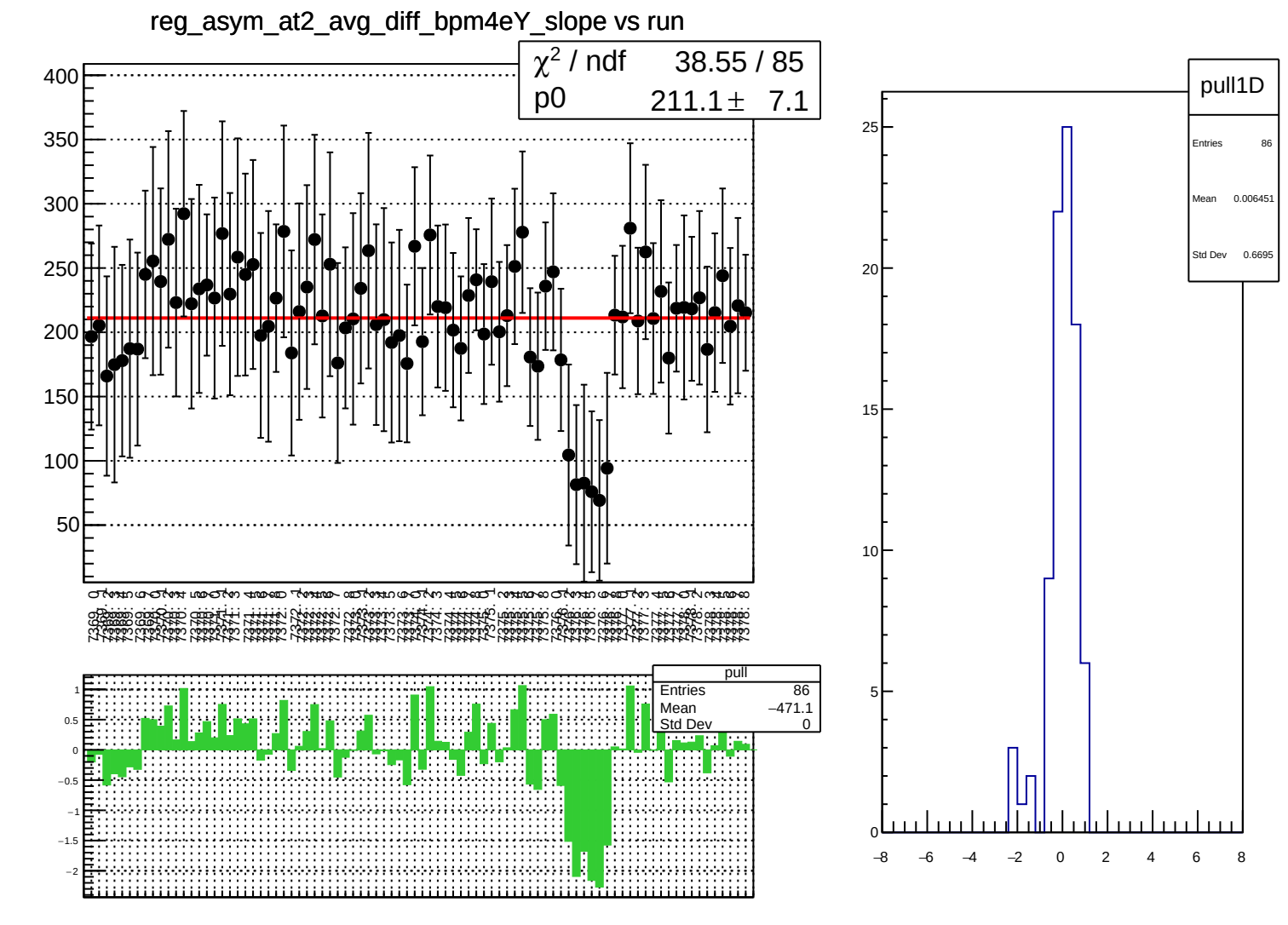

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 94.47 / 85
p0 −258.3 ± 6.14
−100
−200
−300
−400
−500
−600
pull
Entries 86
Mean 81.9
Std Dev 19.56
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.1085
Std Dev 1.042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

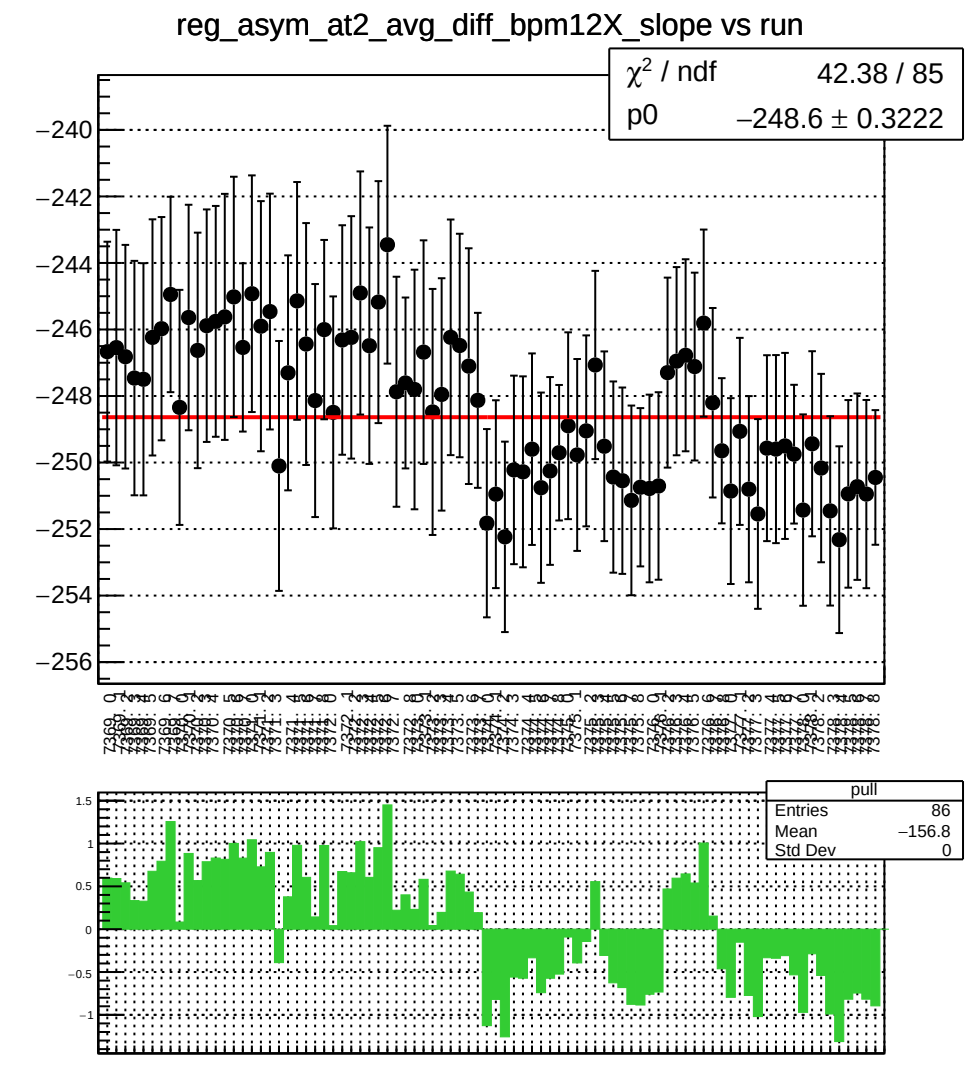

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.05 / 85
p0 −82.97 ± 6.696
pull
Entries 86
Mean −172.7
Std Dev 0

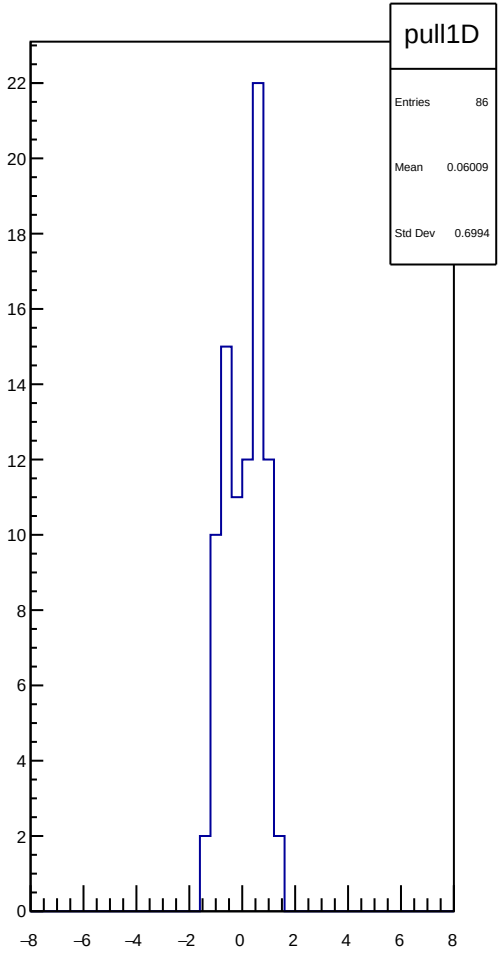

pull1D
Entries 86
Mean −0.01119
Std Dev 0.6992

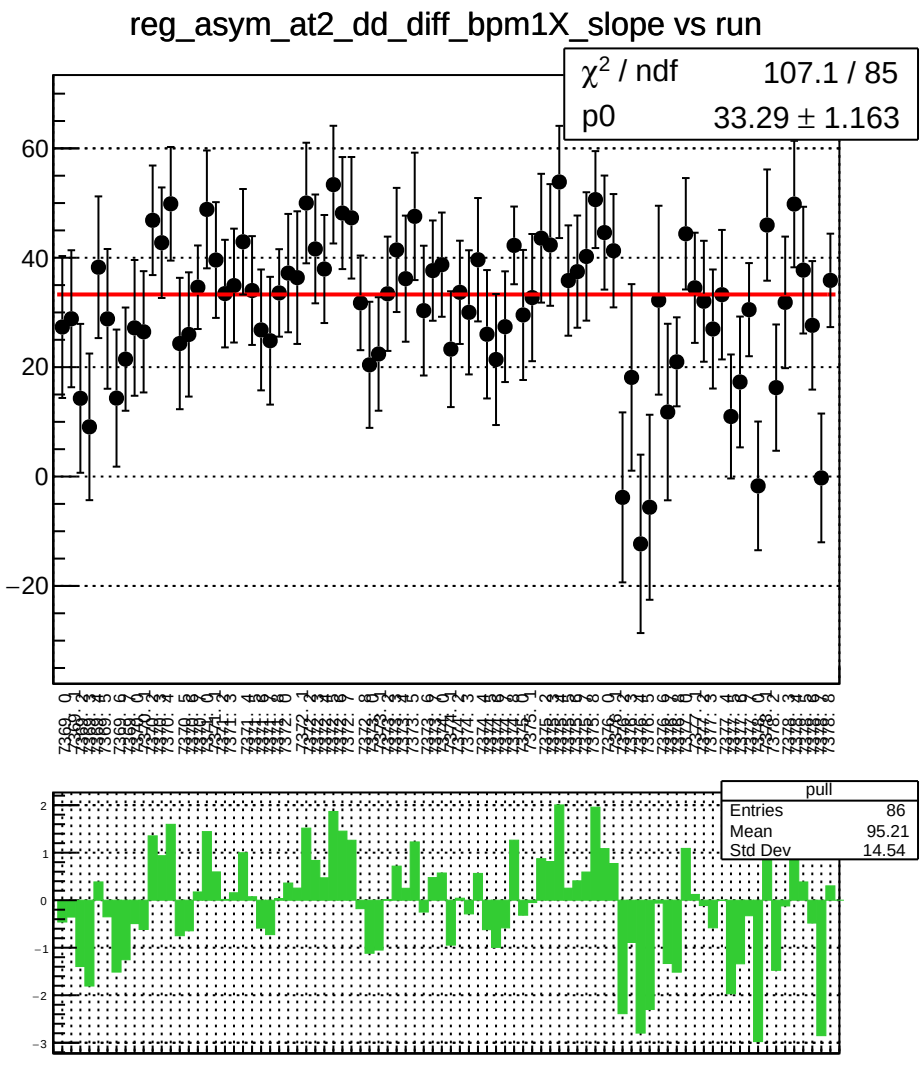

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 95.99 / 85
p0 289.3 ± 6.369
pull
Entries 86
Mean 85.11
Std Dev 16.99

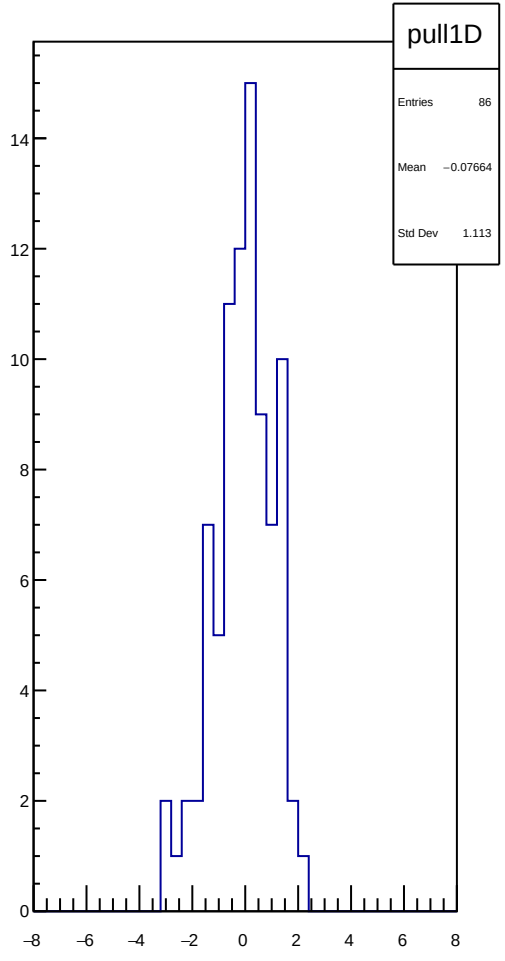

pull1D
Entries 86
Mean 0.1073
Std Dev 1.051

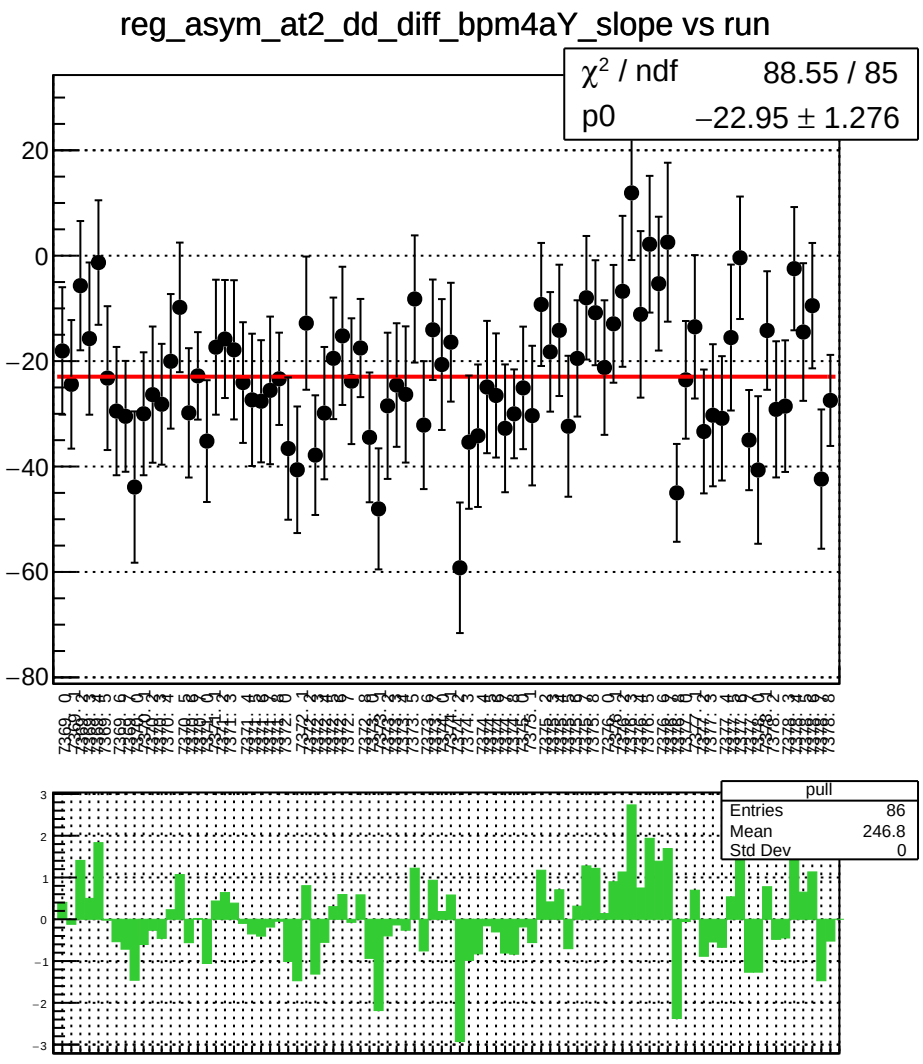

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.55 / 85
p0 211.1 ± 7.1
pull
Entries 86
Mean −471.1
Std Dev 0
pull1D
Entries 86
Mean 0.006451
Std Dev 0.6695

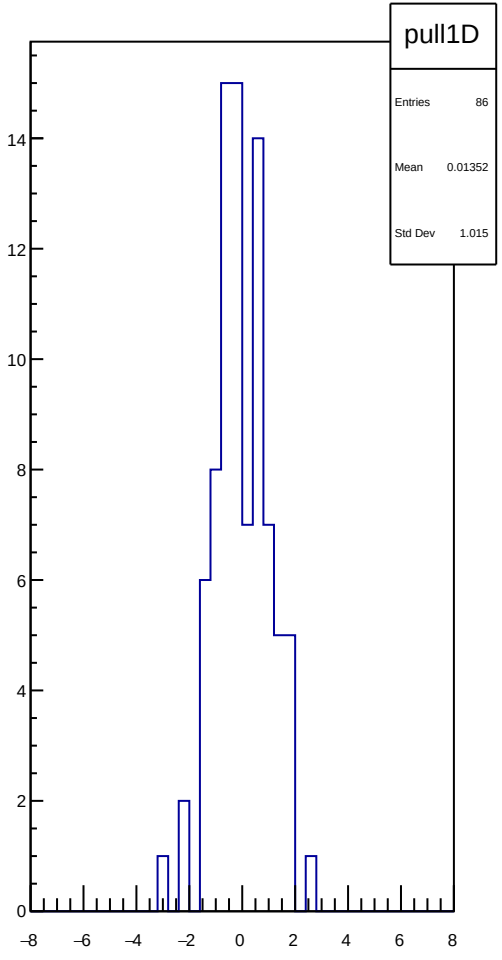

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 42.38 / 85
p0 −248.6 ± 0.3222
pull
Entries 86
Mean −156.8
Std Dev 0

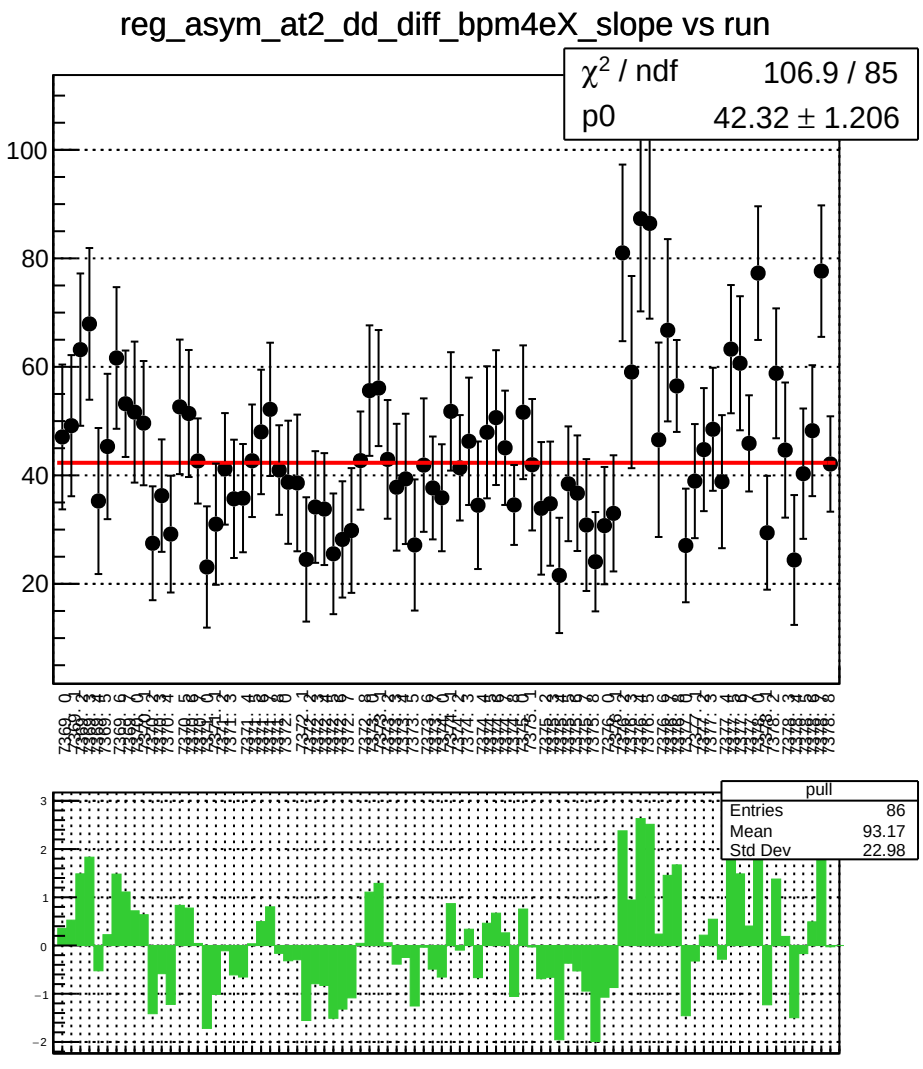

pull1D
Entries 86
Mean 0.06009
Std Dev 0.6994

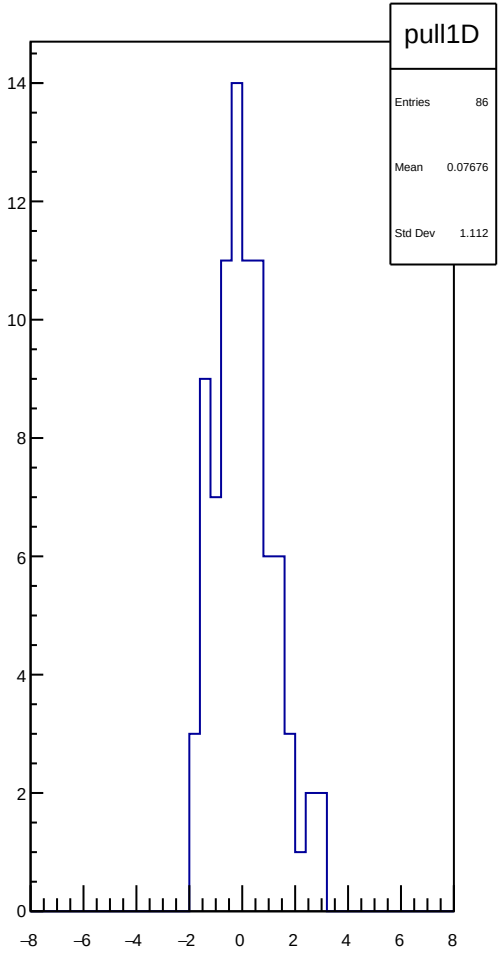

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 107.1 / 85
p0 33.29 ± 1.163
pull
Entries 86
Mean 95.21
Std Dev 14.54

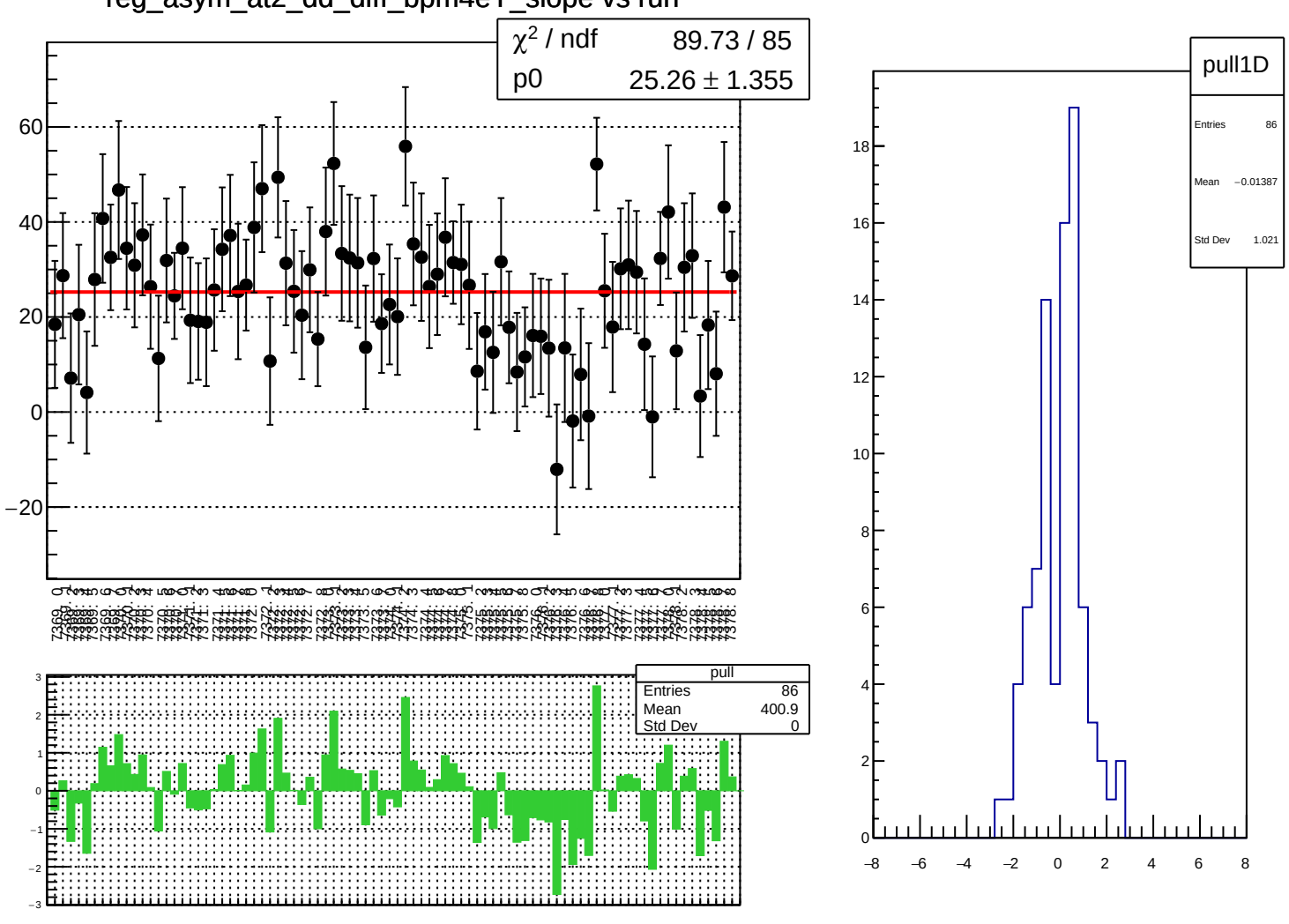

pull1D
Entries 86
Mean −0.07664
Std Dev 1.113

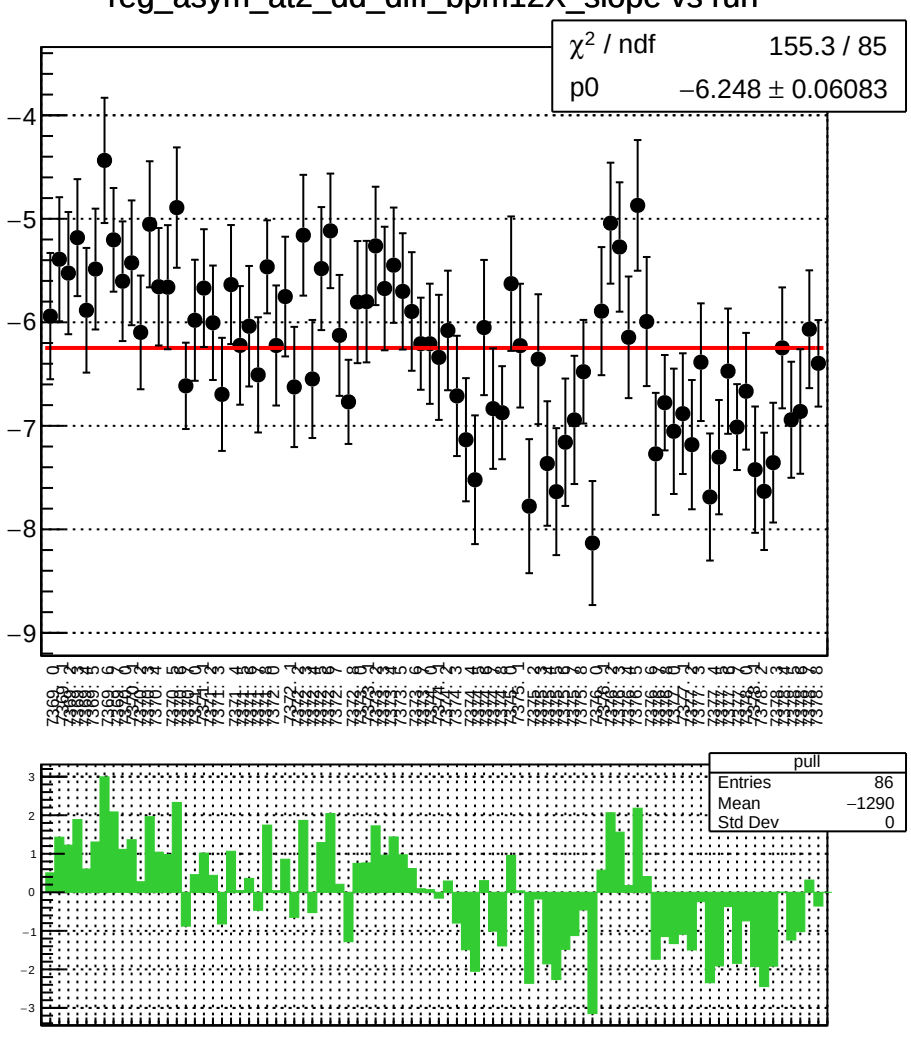

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.55 / 85
p0 −22.95 ± 1.276
pull
Entries 86
Mean 246.8
Std Dev 0

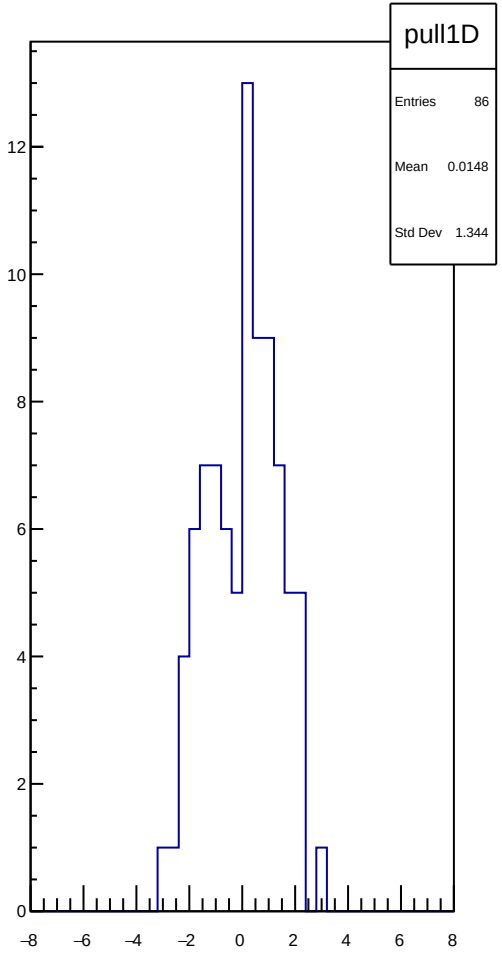

pull1D
Entries 86
Mean 0.01352
Std Dev 1.015

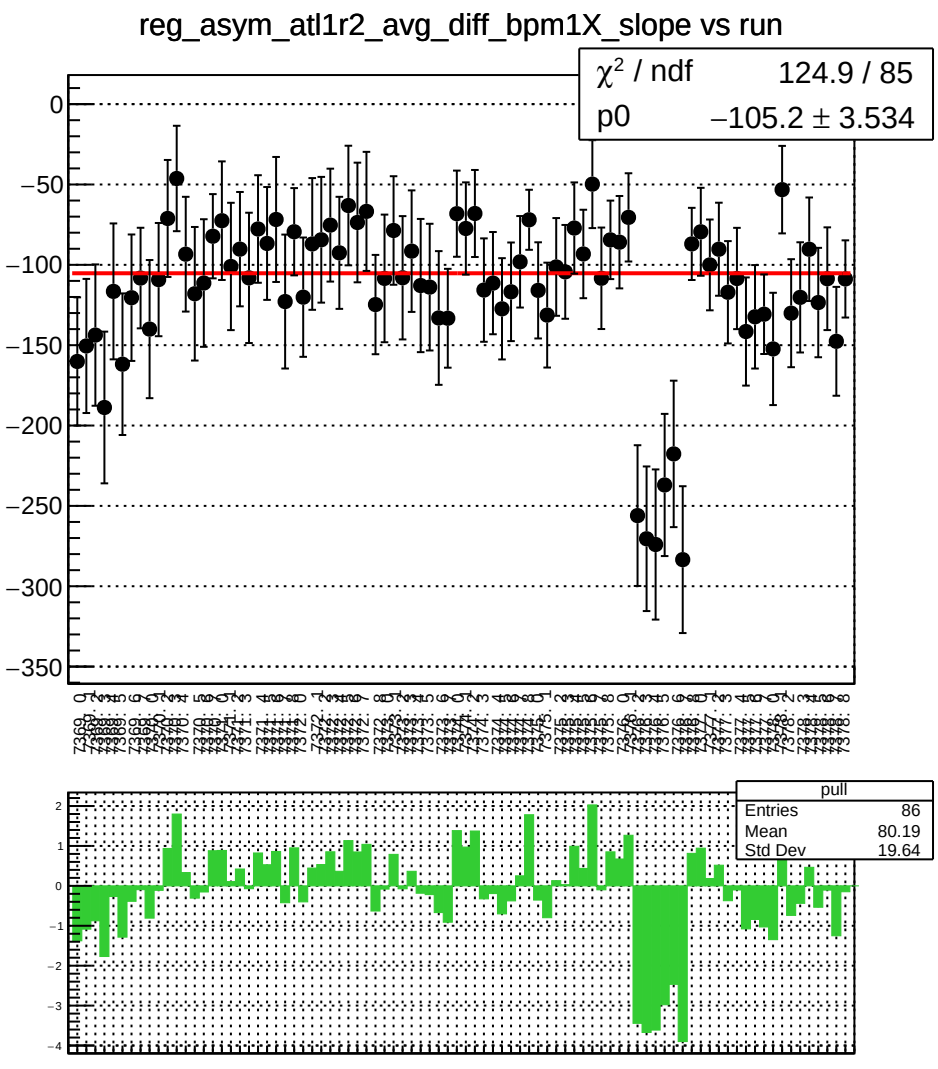

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 106.9 / 85
p0 42.32 ± 1.206
pull
Entries 86
Mean 93.17
Std Dev 22.98

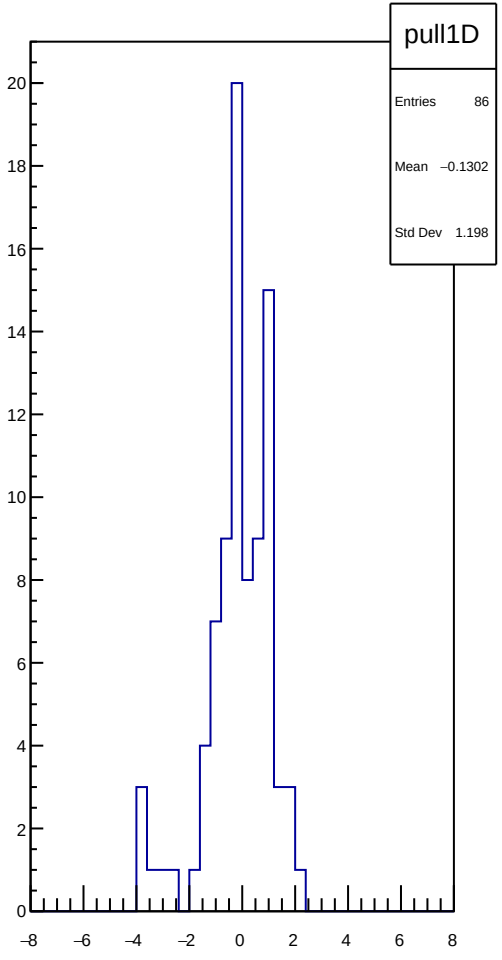

pull1D
Entries 86
Mean 0.07676
Std Dev 1.112

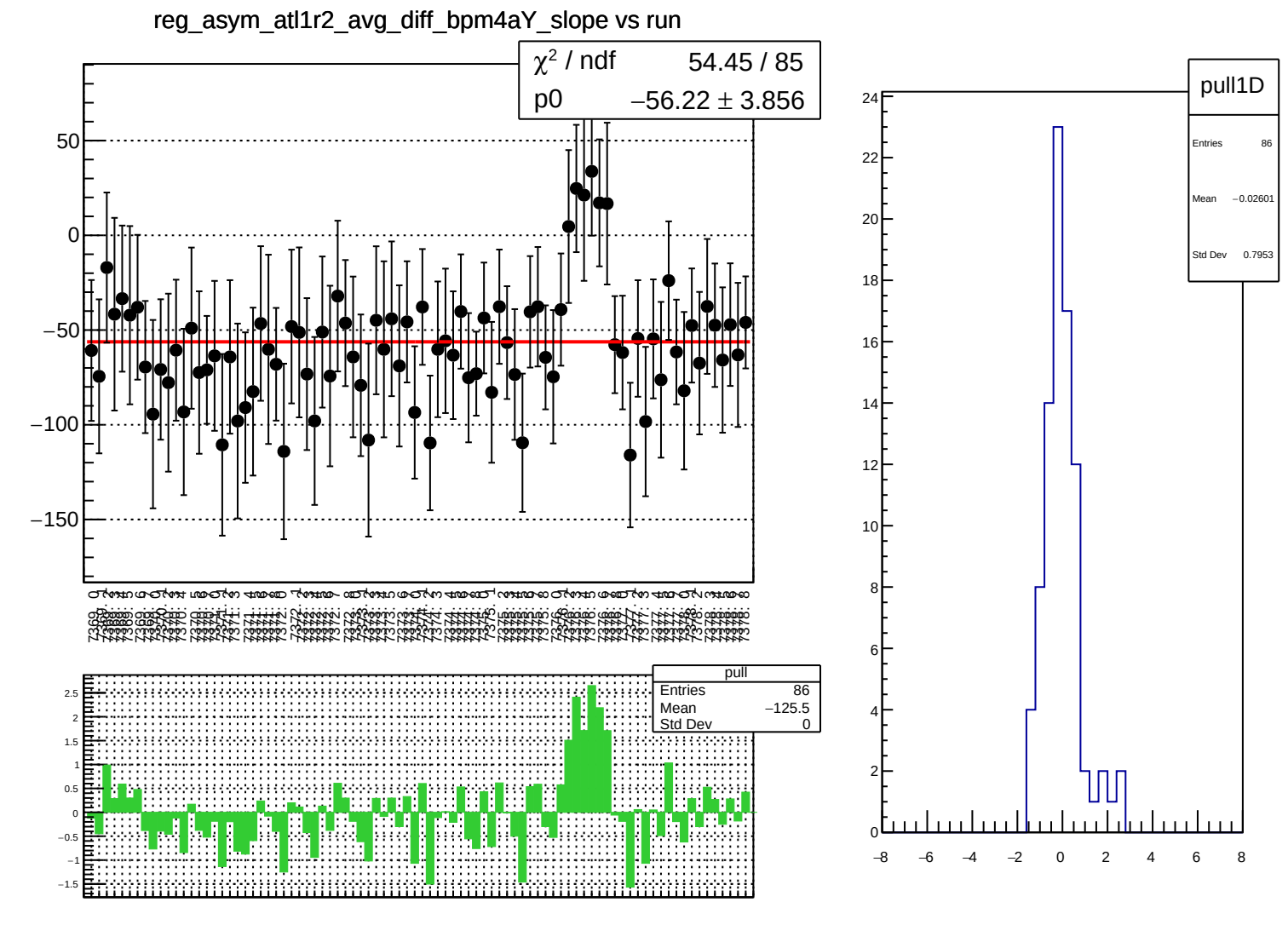

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.73 / 85
p0 25.26 ± 1.355
pull
Entries 86
Mean 400.9
Std Dev 0
pull1D
Entries 86
Mean −0.01387
Std Dev 1.021

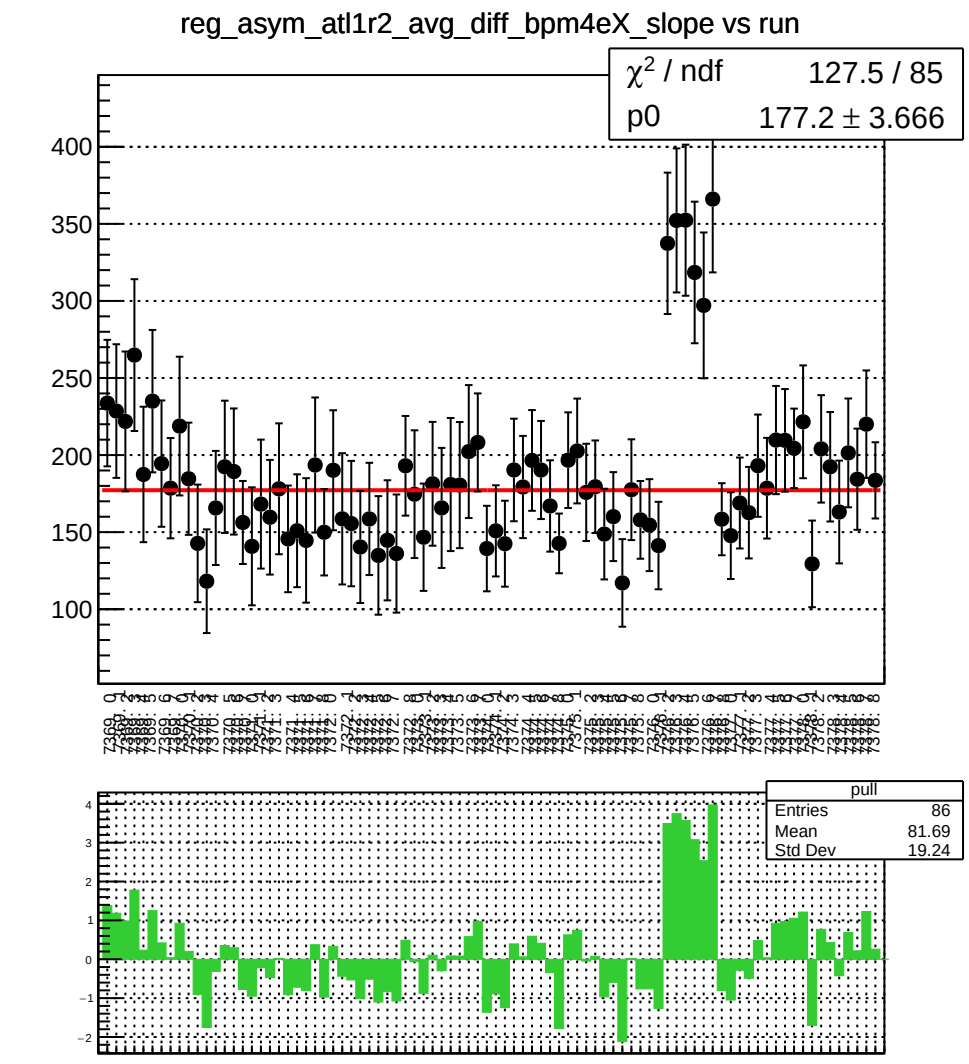

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 155.3 / 85
p0 −6.248 ± 0.06083
pull
Entries 86
Mean −1290
Std Dev 0

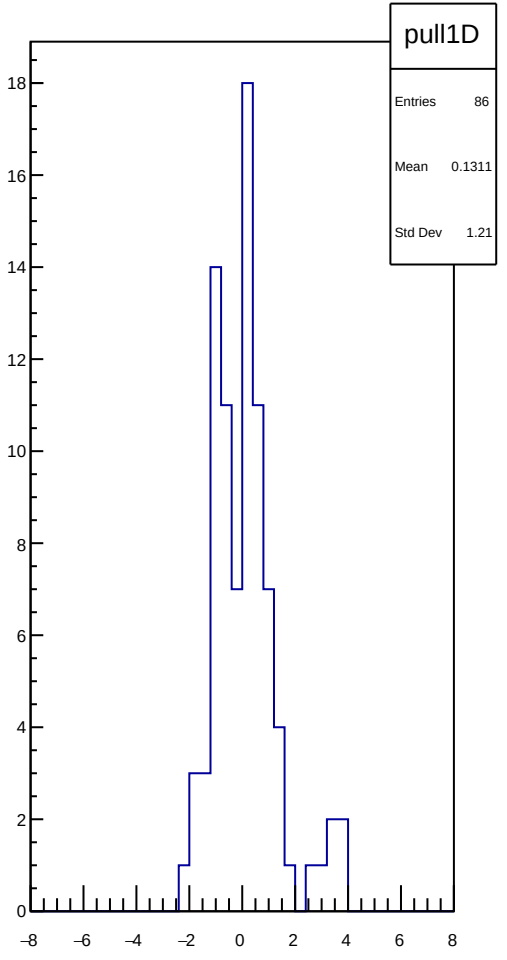

pull1D
Entries 86
Mean 0.0148
Std Dev 1.344

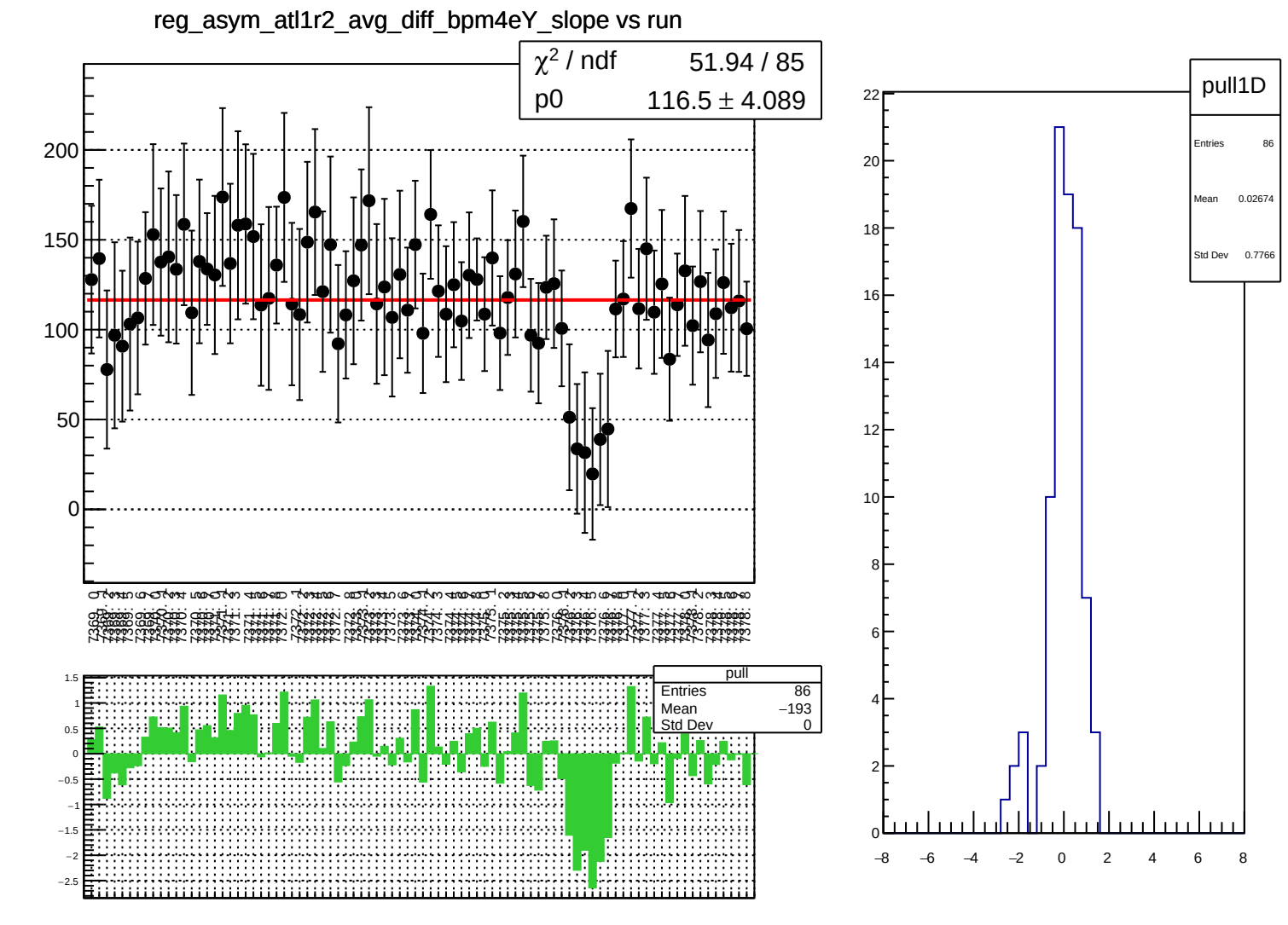

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 124.9 / 85
p0 −105.2 ± 3.534
pull
Entries 86
Mean 80.19
Std Dev 19.64

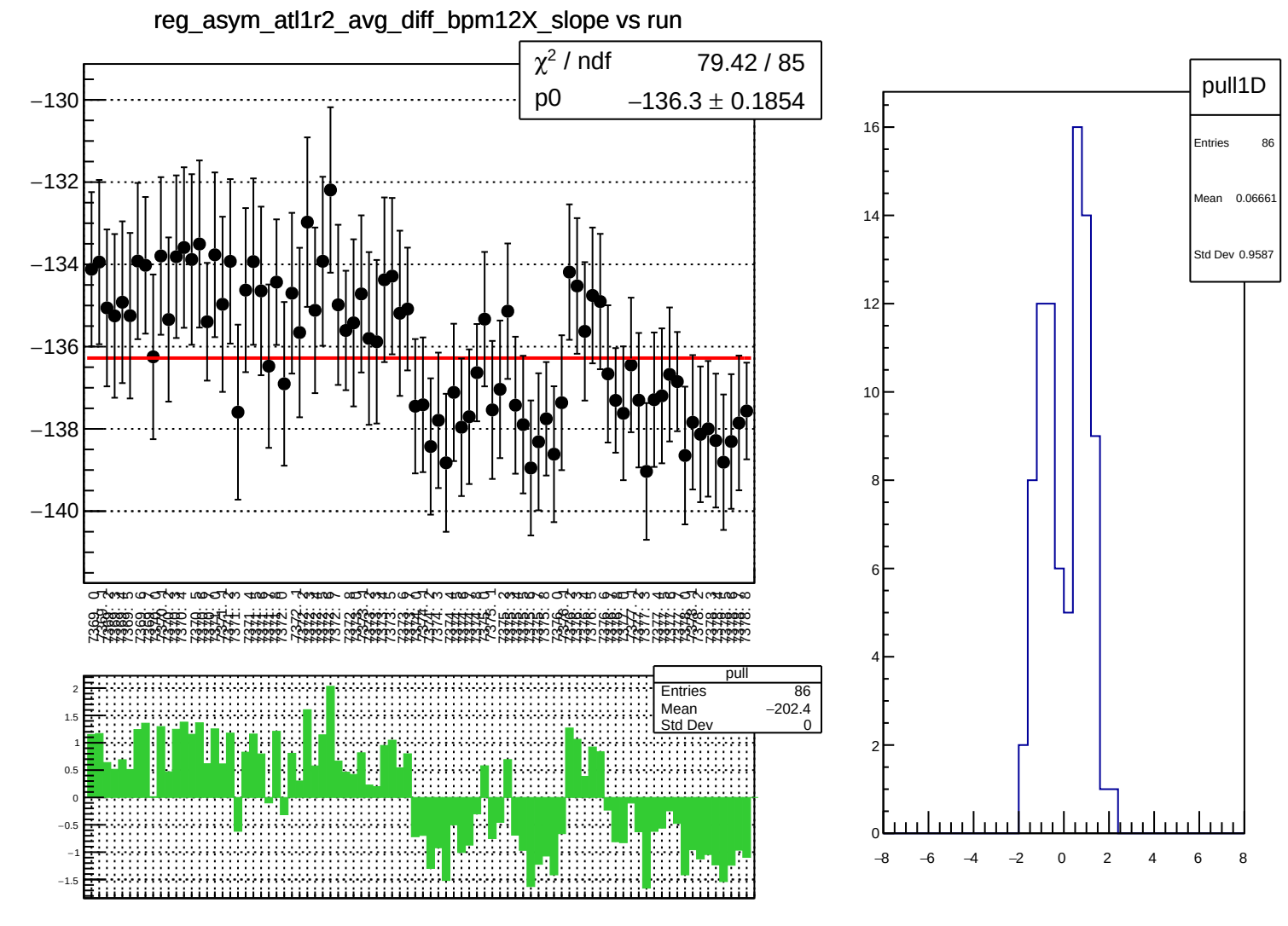

pull1D
Entries 86
Mean −0.1302
Std Dev 1.198

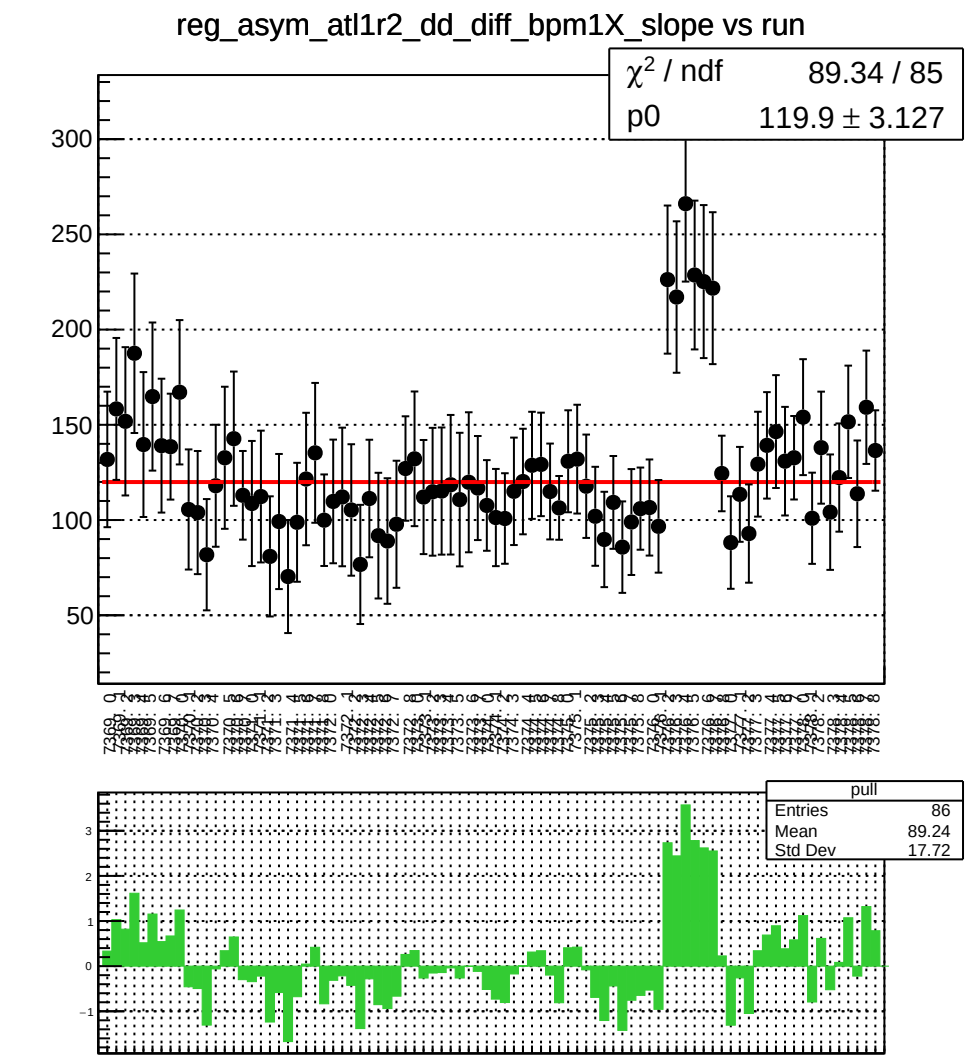

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 54.45 / 85
p0 −56.22 ± 3.856
pull
Entries 86
Mean −125.5
Std Dev 0
pull1D
Entries 86
Mean −0.02601
Std Dev 0.7953

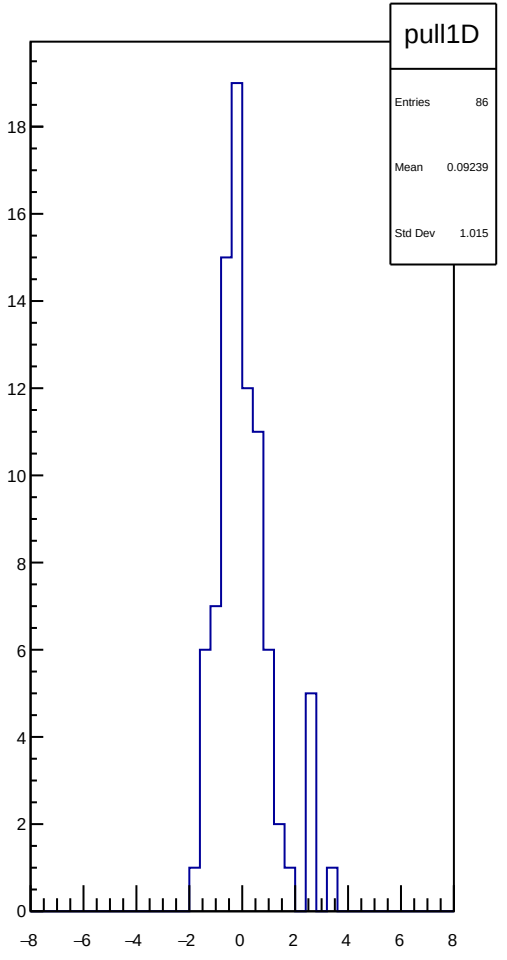

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 127.5 / 85
p0 177.2 ± 3.666
400
350
300
250
200
150
100
pull
Entries 86
Mean 81.69
Std Dev 19.24
4
3
2
1
0
−1
−2

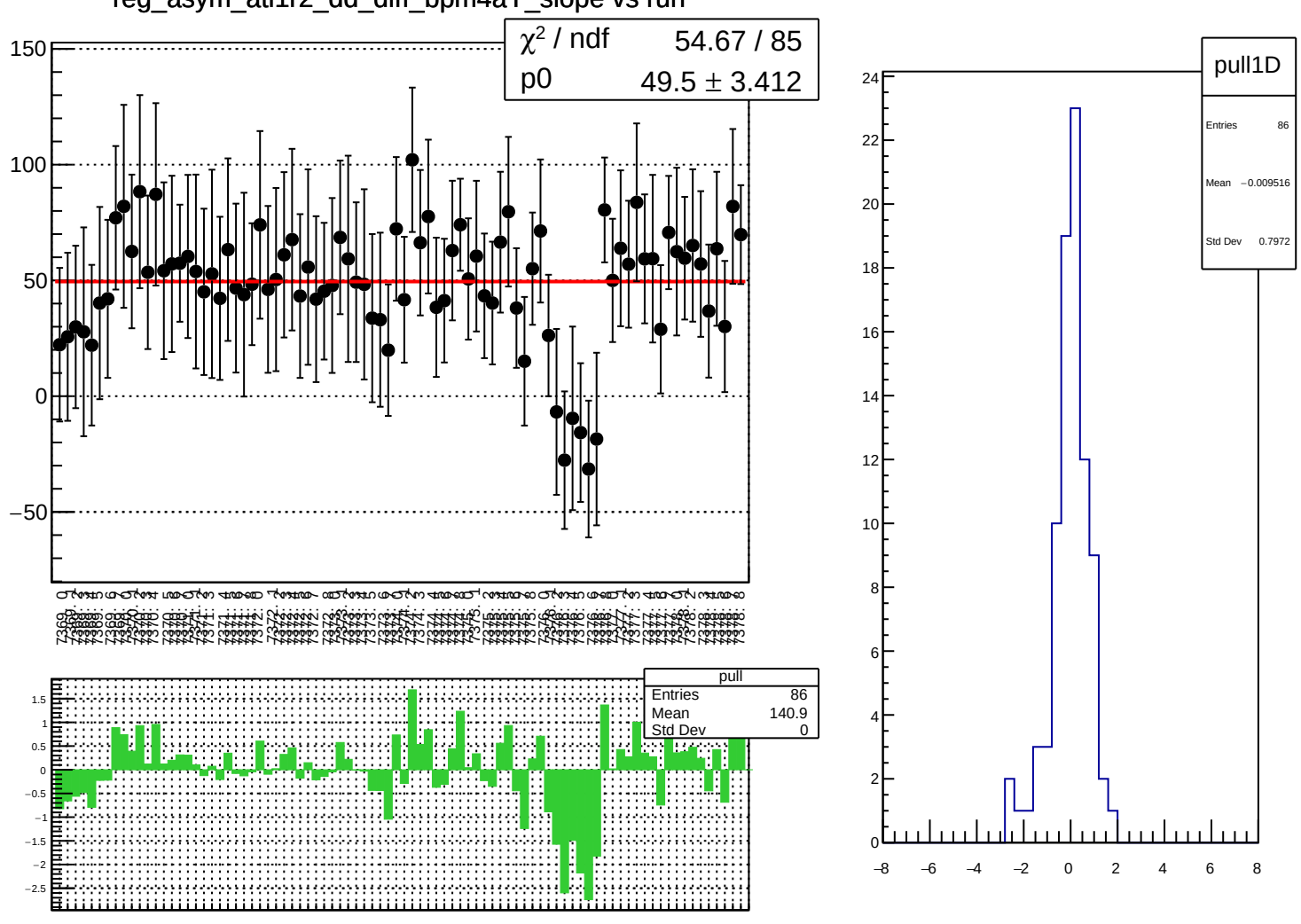

pull1D
Entries 86
Mean 0.1311
Std Dev 1.21
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

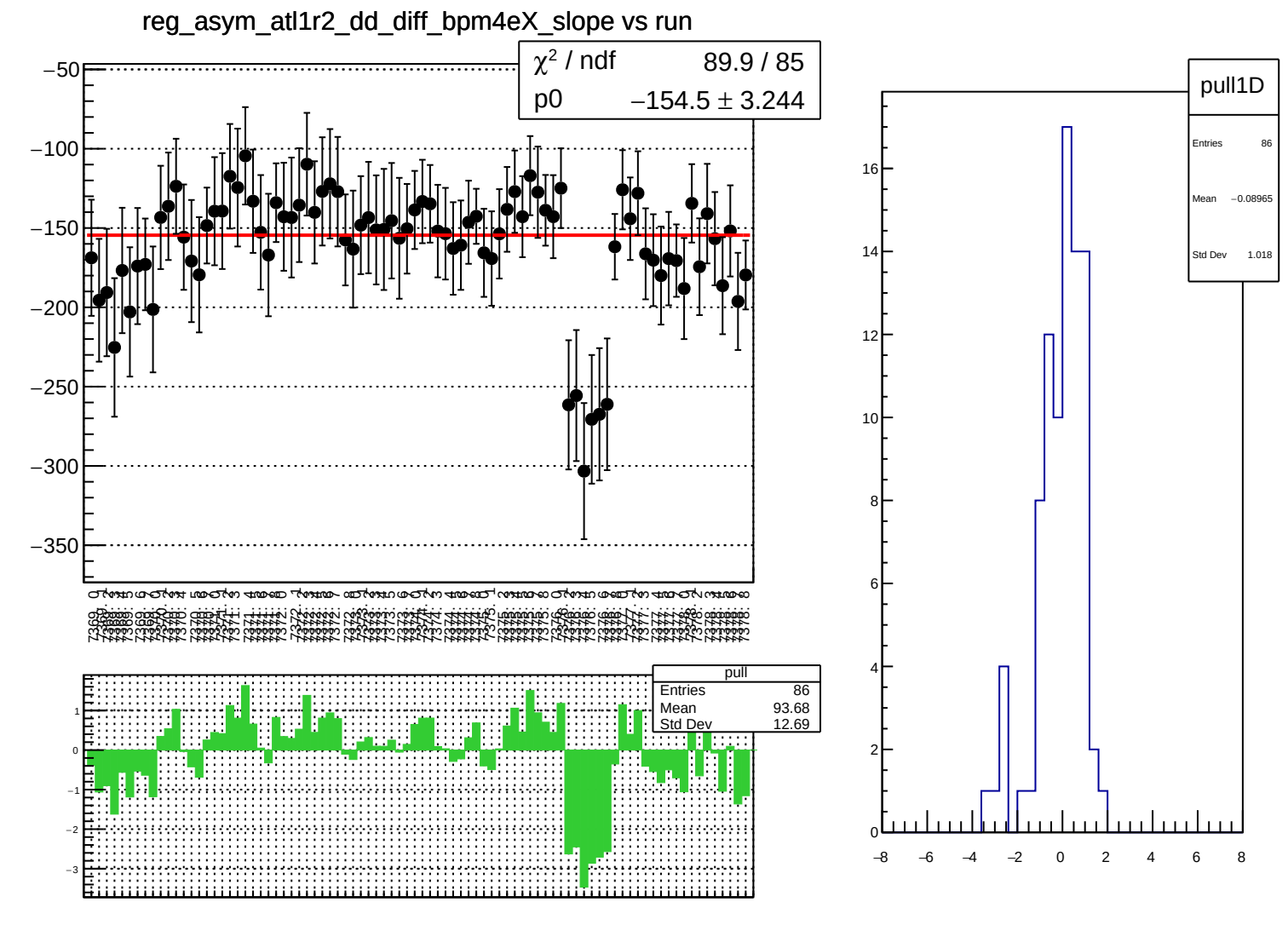

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.94 / 85
p0 116.5 ± 4.089
200
150
100
50
0
pull
Entries 86
Mean −193
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 86
Mean 0.02674
Std Dev 0.7766
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

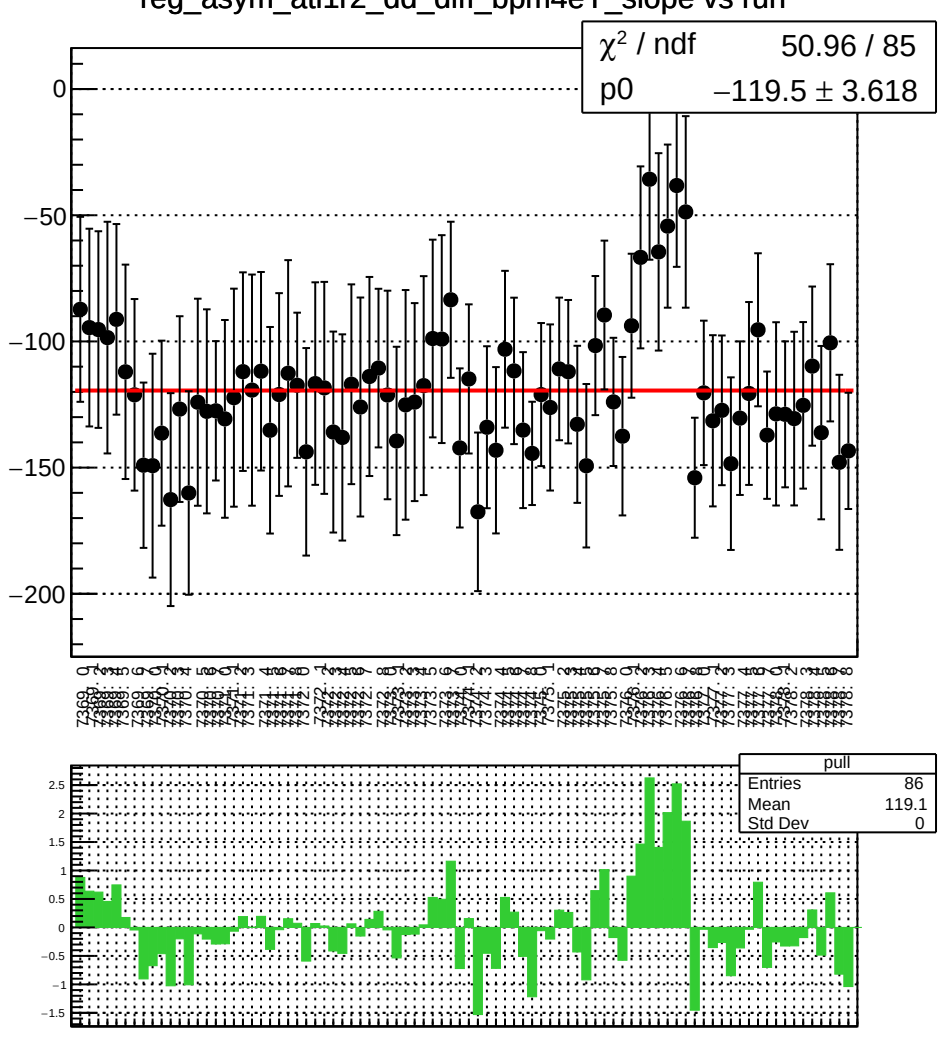

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 79.42 / 85
p0 −136.3 ± 0.1854
−130
−132
−134
−136
−138
−140
pull
Entries 86
Mean −202.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.06661
Std Dev 0.9587
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

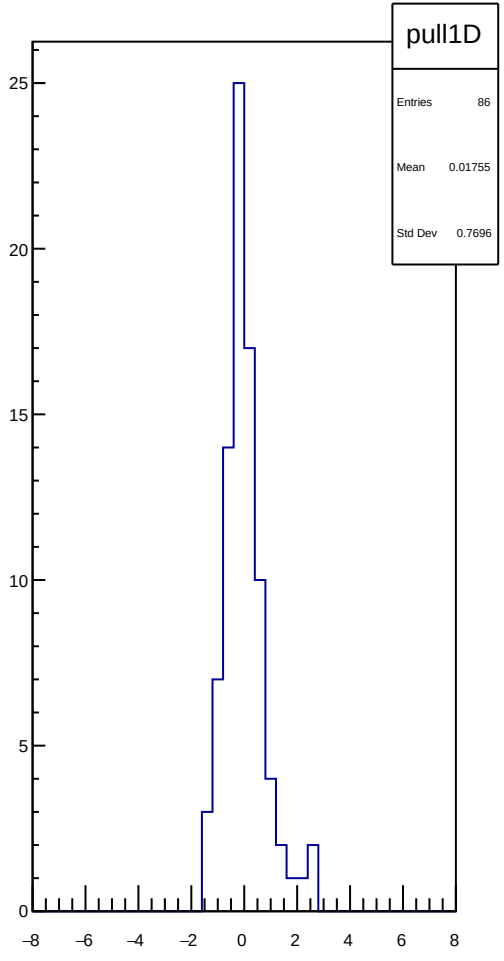

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 89.34 / 85
p0 119.9 ± 3.127
300
250
200
150
100
50
pull
Entries 86
Mean 89.24
Std Dev 17.72
3
2
1
0
−1

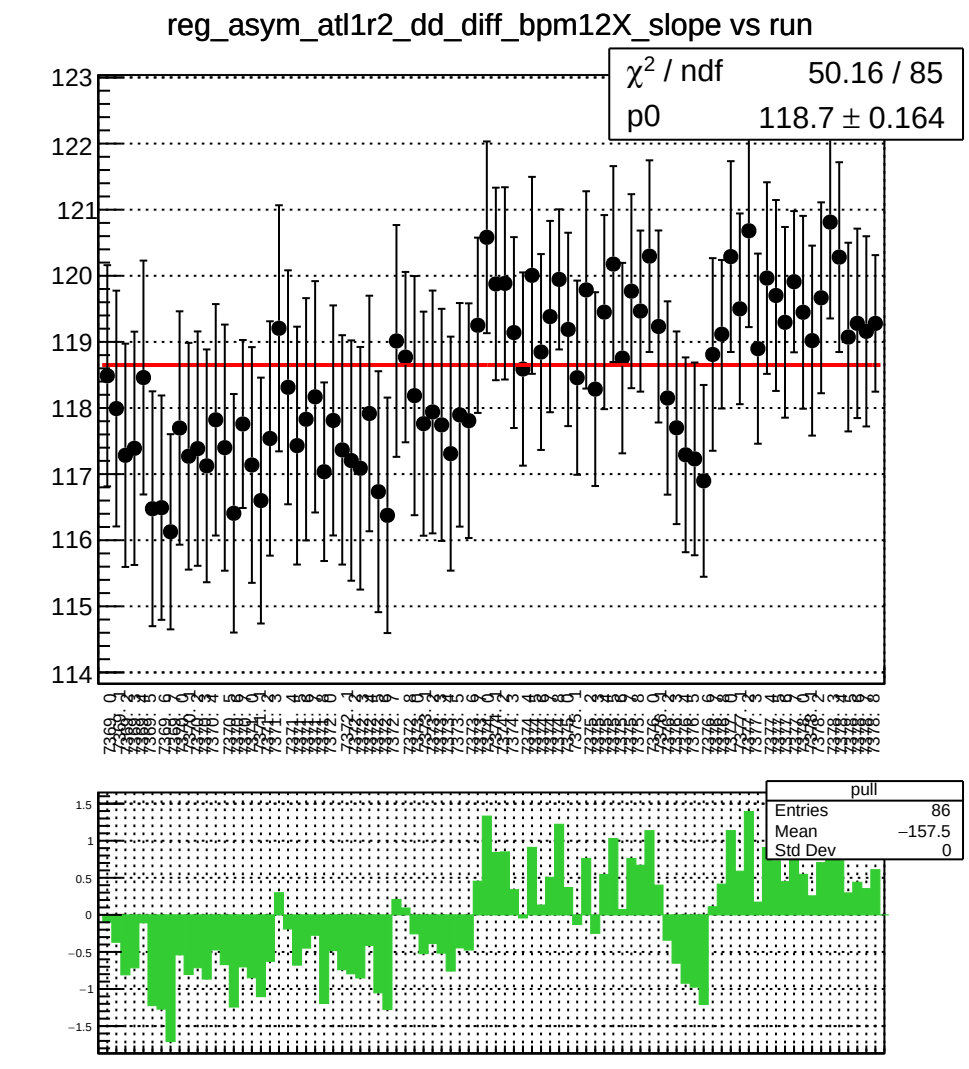

pull1D
Entries 86
Mean 0.09239
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

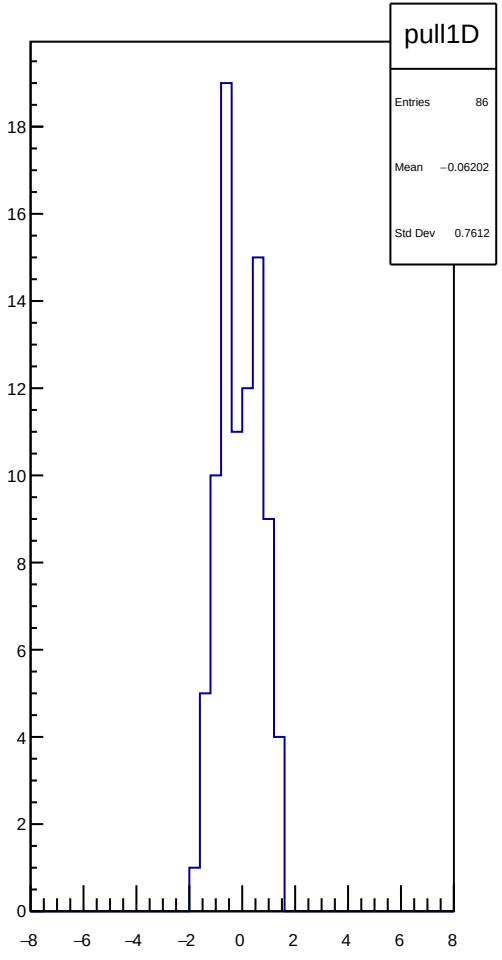

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.67 / 85
p0 49.5 ± 3.412
150
100
50
0
−50
pull
Entries 86
Mean 140.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 86
Mean −0.009516
Std Dev 0.7972
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

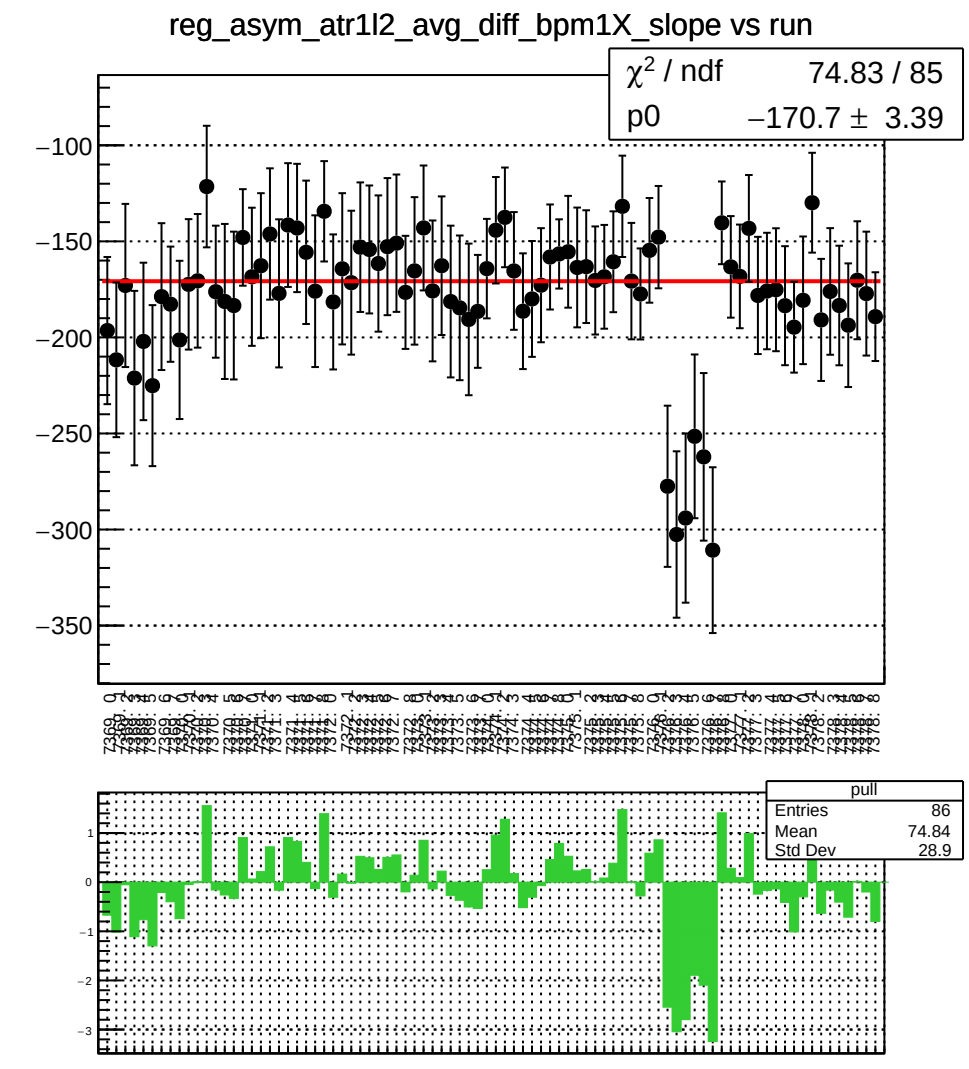

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.9 / 85
p0 −154.5 ± 3.244
pull
Entries 86
Mean 93.68
Std Dev 12.69
pull1D
Entries 86
Mean −0.08965
Std Dev 1.018

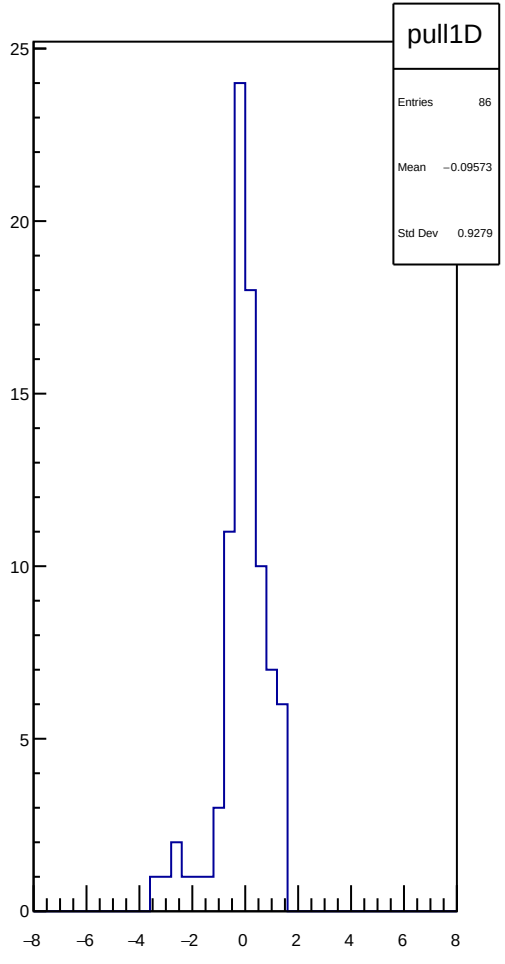

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.96 / 85
p0 −119.5 ± 3.618
0
−50
−100
−150
−200
pull
Entries 86
Mean 119.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

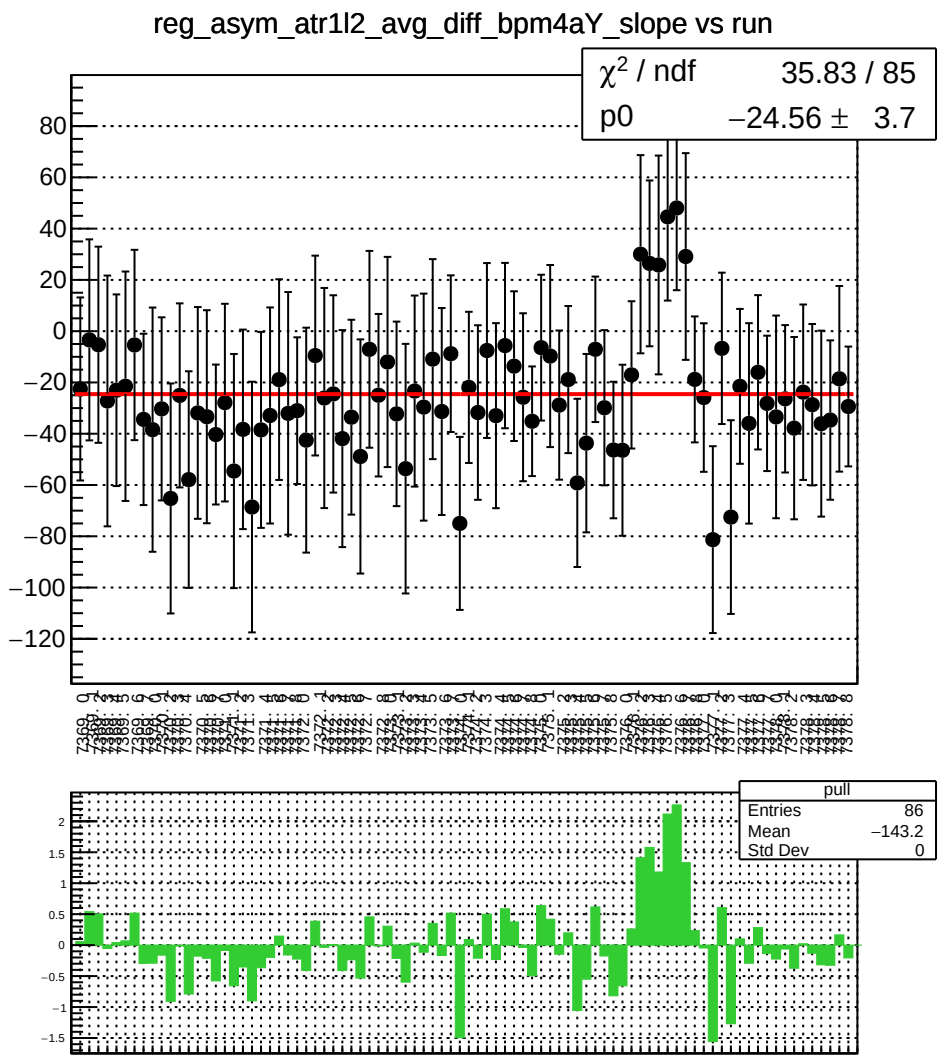

pull1D
Entries 86
Mean 0.01755
Std Dev 0.7696
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

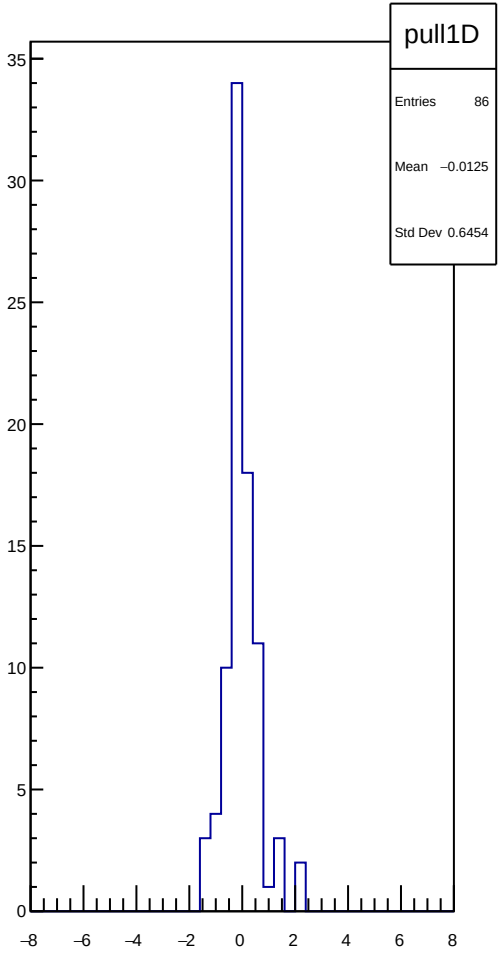

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 50.16 / 85
p0 118.7 ± 0.164
pull
Entries 86
Mean −157.5
Std Dev 0

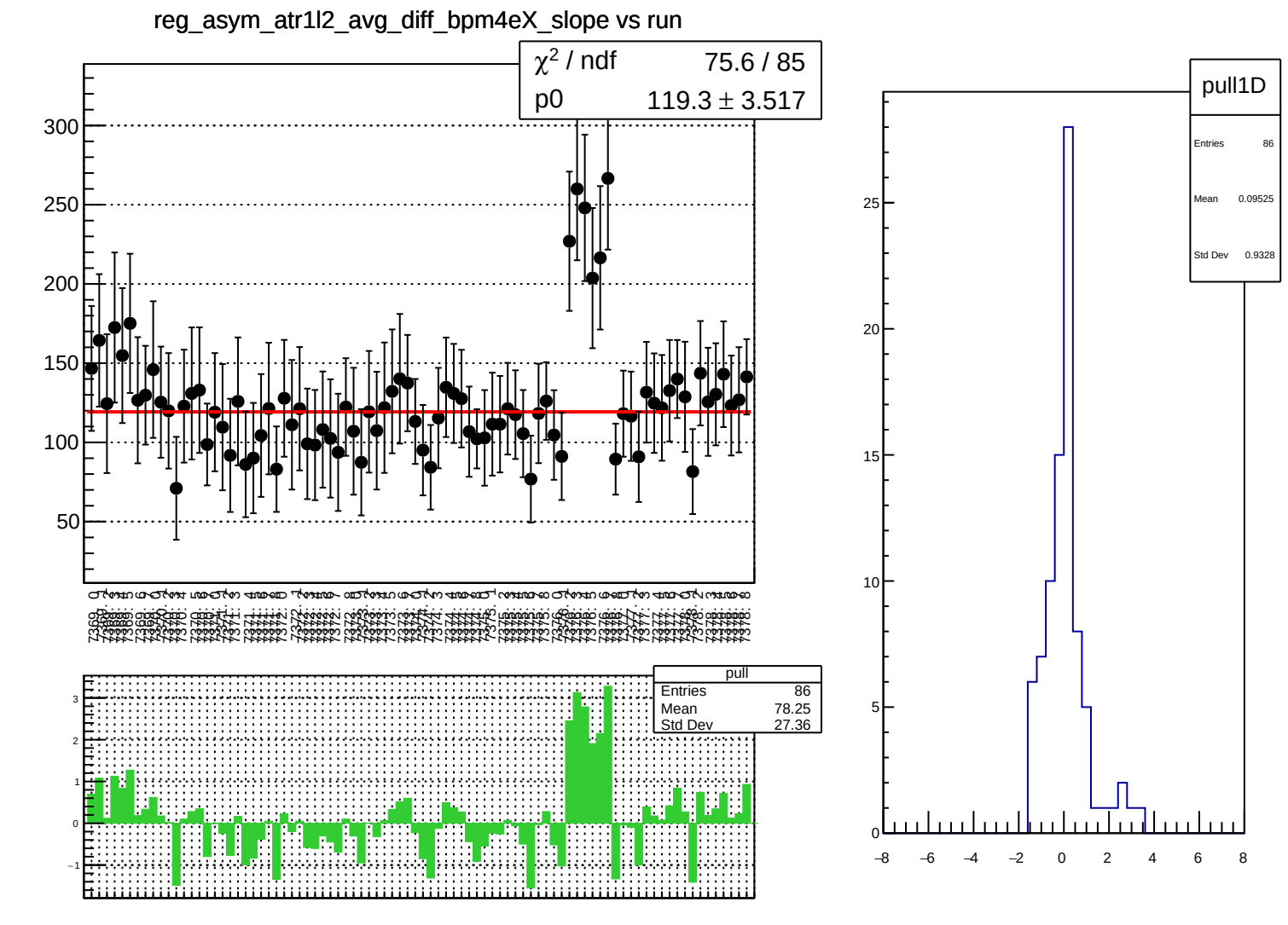

pull1D
Entries 86
Mean −0.06202
Std Dev 0.7612

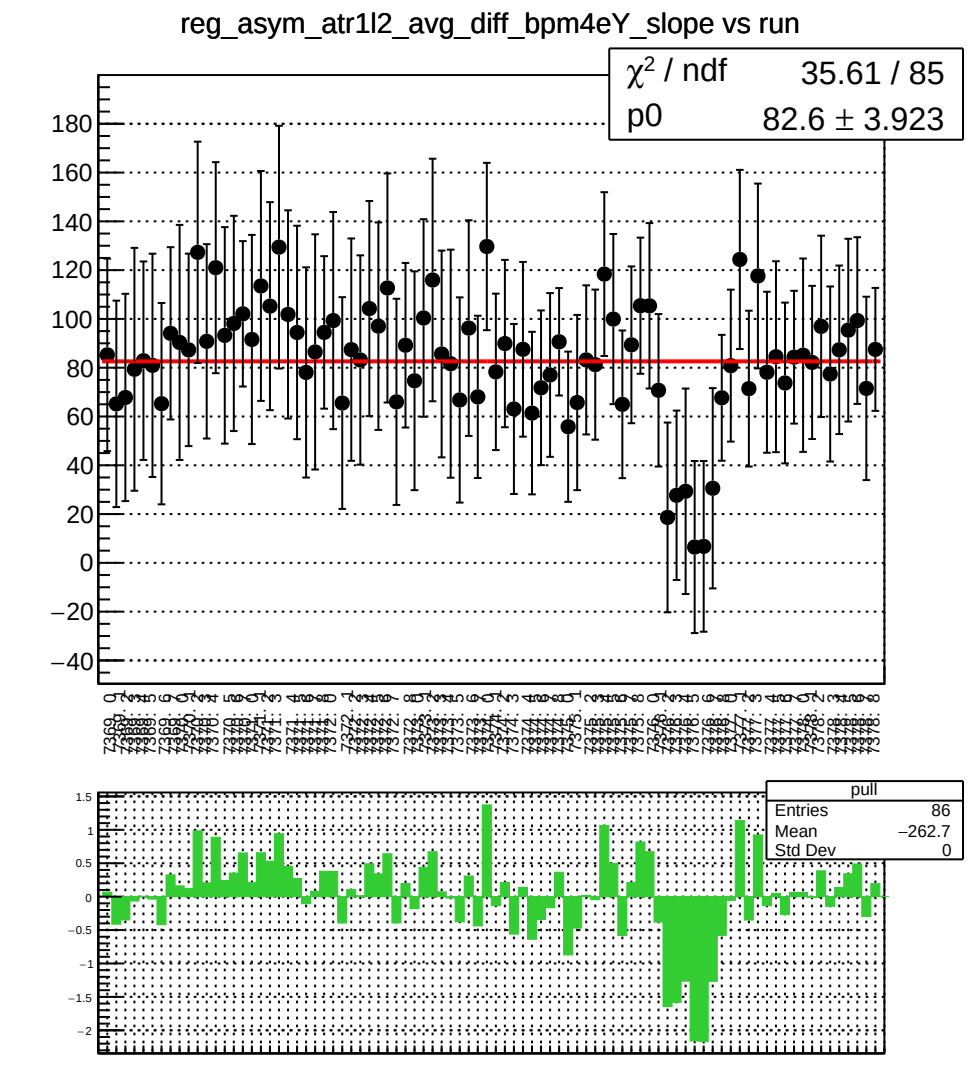

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 74.83 / 85
p0 −170.7 ± 3.39
−100
−150
−200
−250
−300
−350
pull
Entries 86
Mean 74.84
Std Dev 28.9
1
0
−1
−2
−3

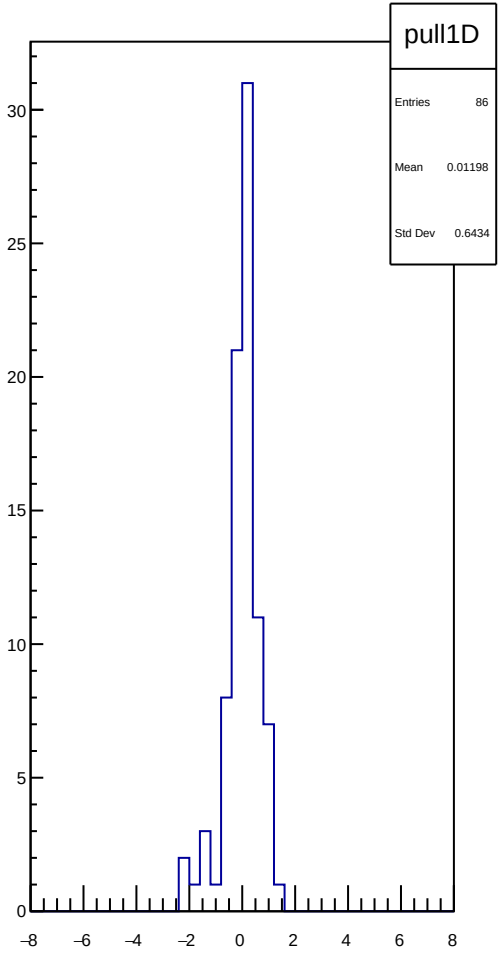

pull1D
Entries 86
Mean −0.09573
Std Dev 0.9279
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

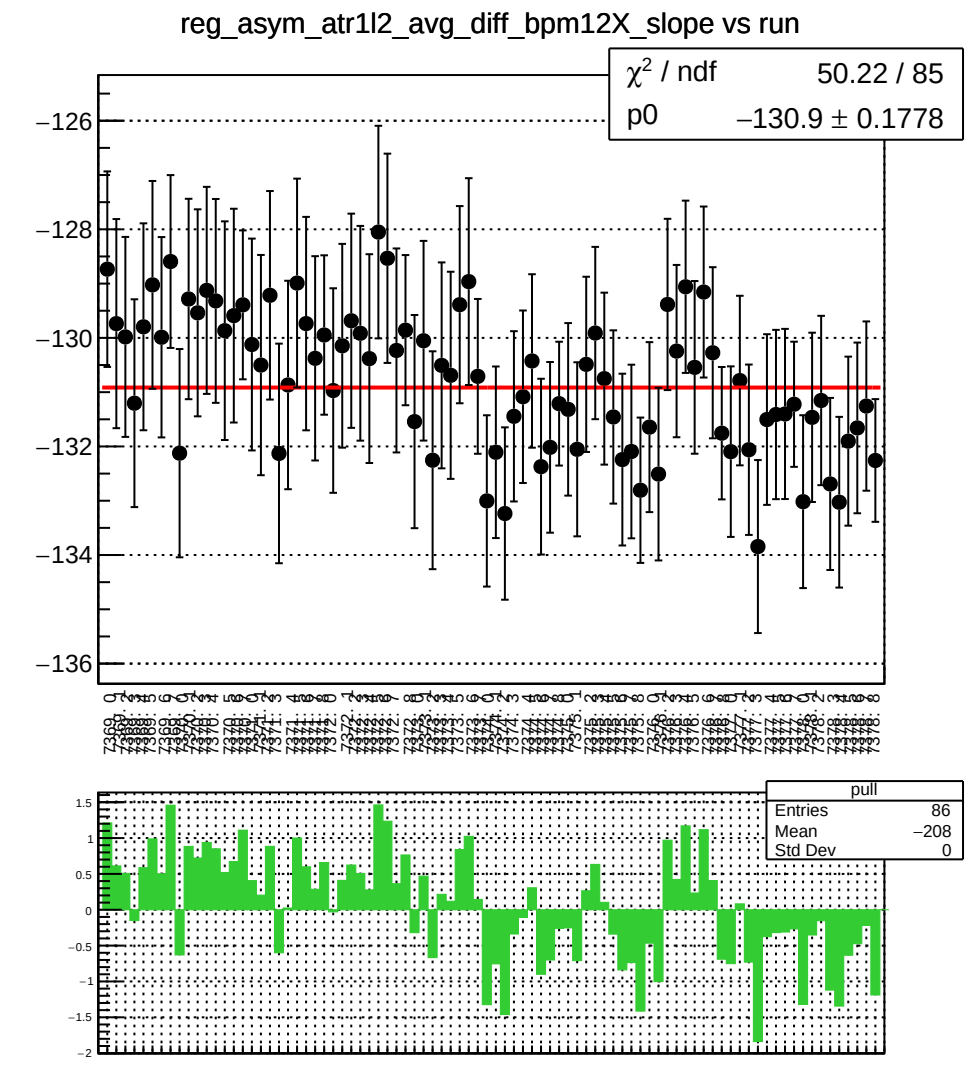

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.83 / 85
p0 −24.56 ± 3.7
pull
Entries 86
Mean −143.2
Std Dev 0

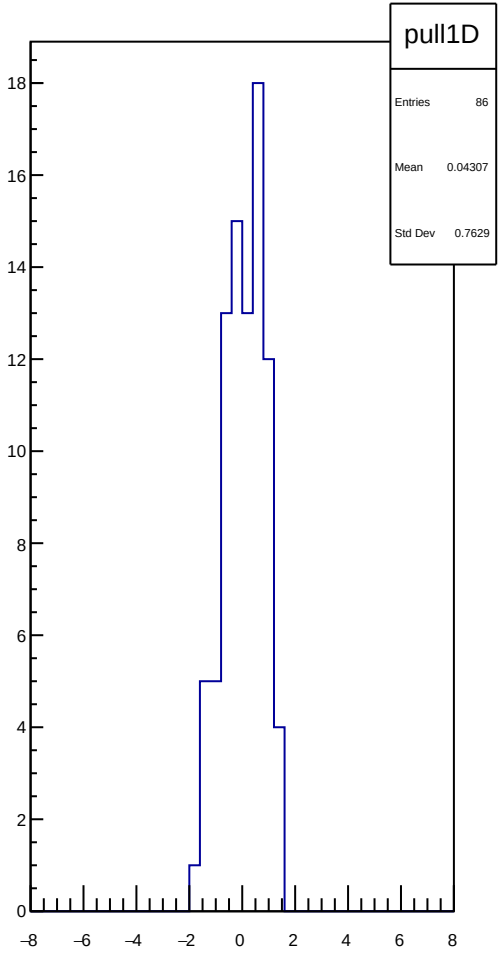

pull1D
Entries 86
Mean −0.0125
Std Dev 0.6454

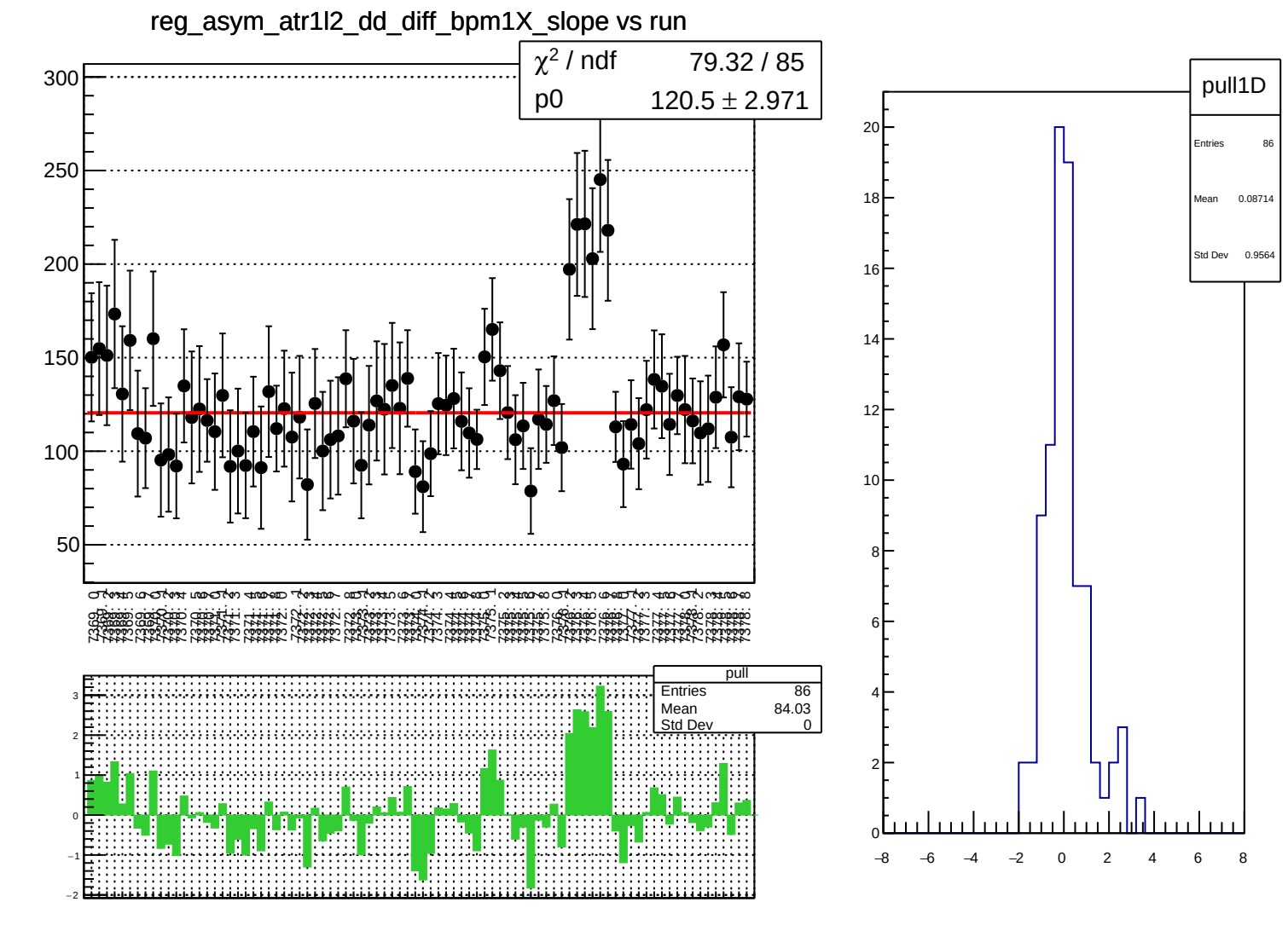

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.6 / 85
p0 119.3 ± 3.517
300
250
200
150
100
50
pull
Entries 86
Mean 78.25
Std Dev 27.36
3
2
1
0
−1
pull1D
Entries 86
Mean 0.09525
Std Dev 0.9328
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

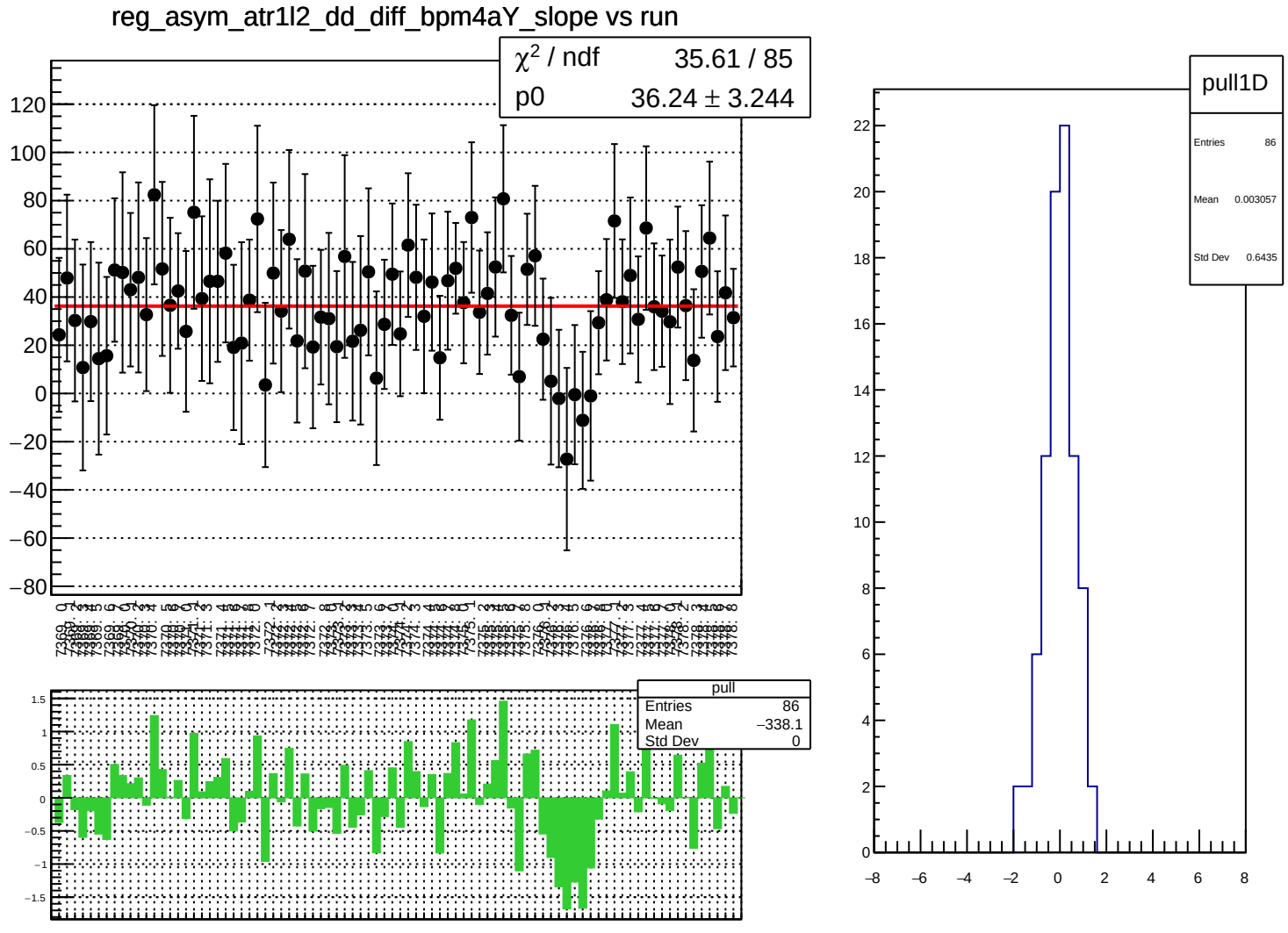

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.61 / 85
p0 82.6 ± 3.923
pull
Entries 86
Mean −262.7
Std Dev 0

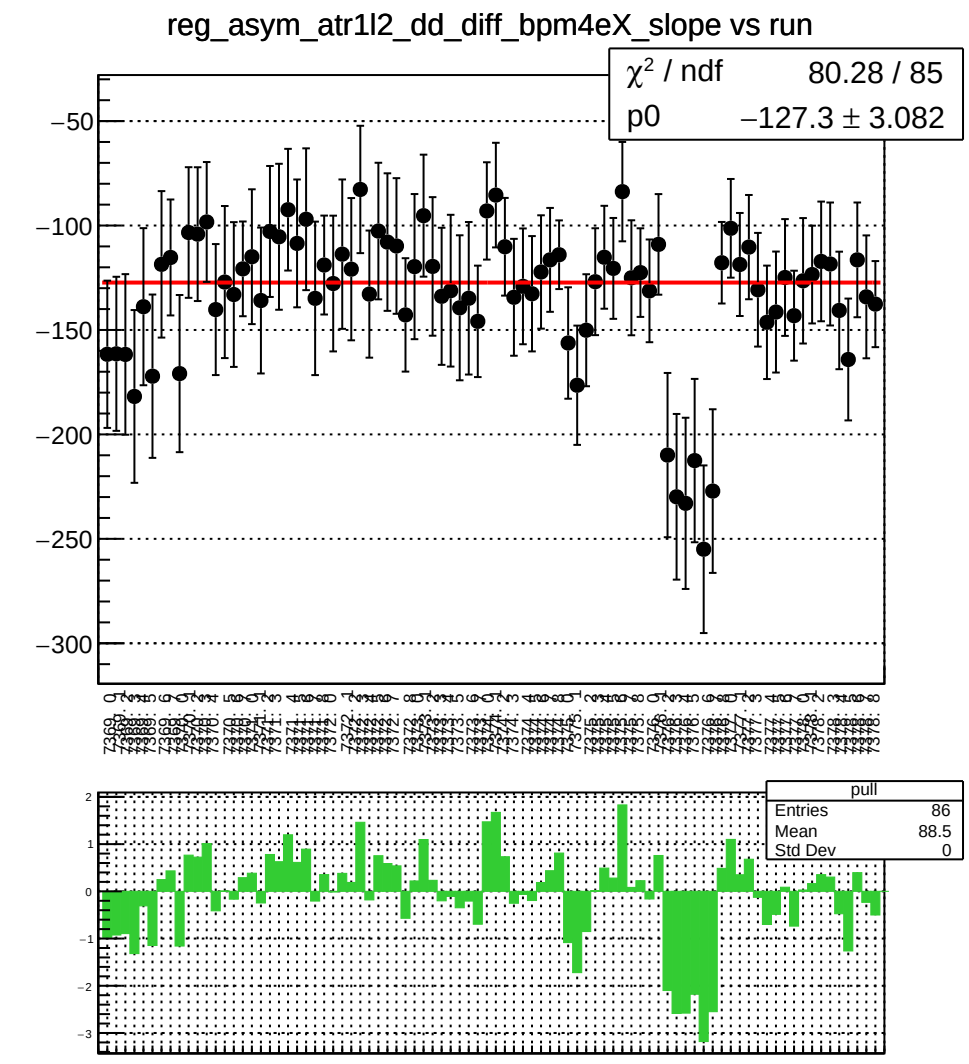

pull1D
Entries 86
Mean 0.01198
Std Dev 0.6434

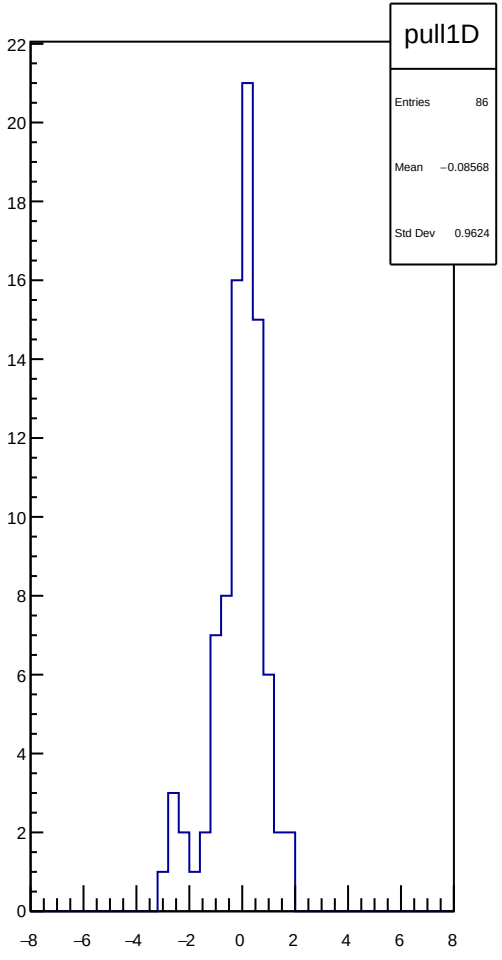

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 50.22 / 85
p0 −130.9 ± 0.1778
−126
−128
−130
−132
−134
−136
pull
Entries 86
Mean −208
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

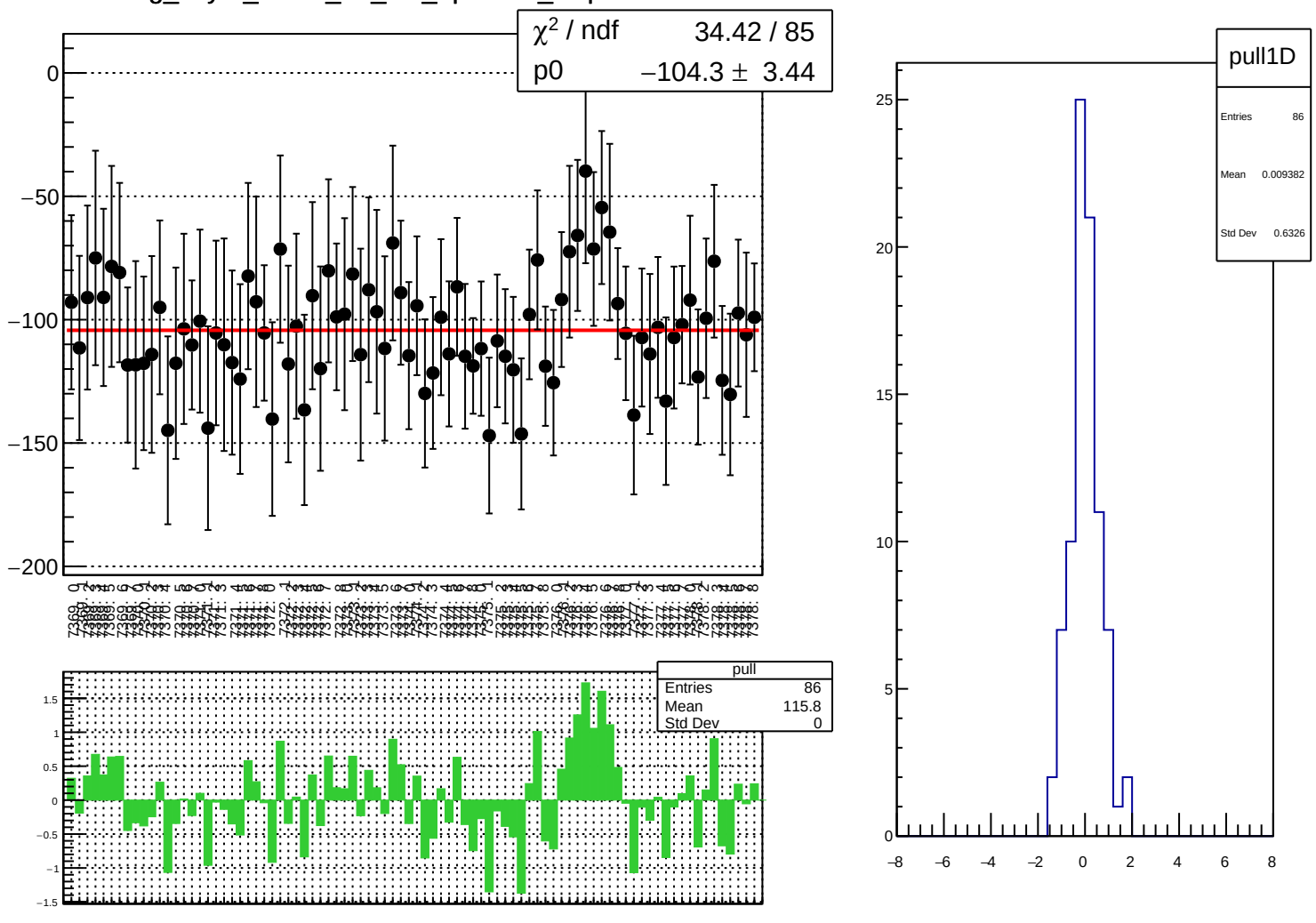

pull1D
Entries 86
Mean 0.04307
Std Dev 0.7629
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

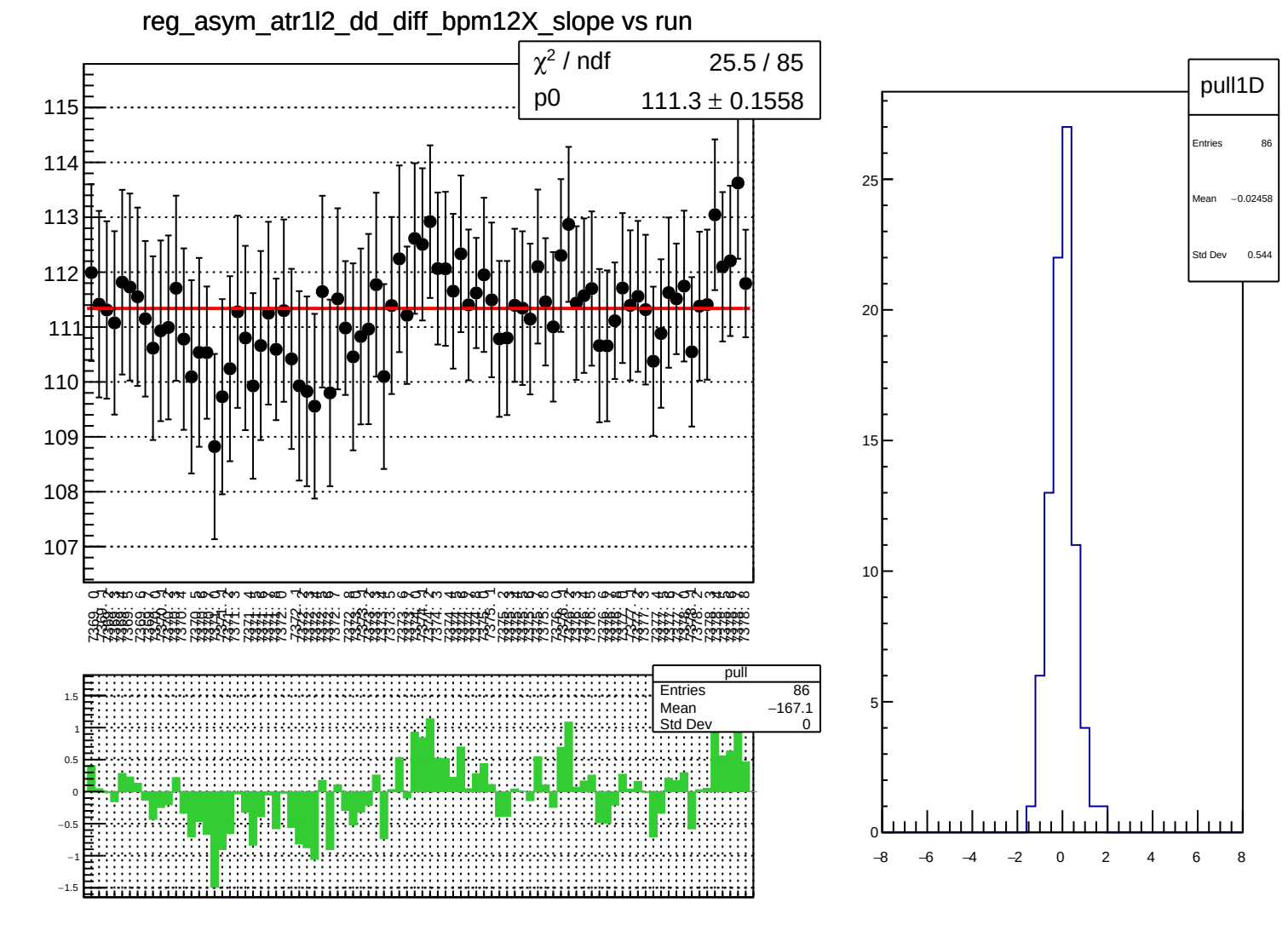

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 79.32 / 85
p0 120.5 ± 2.971
pull
Entries 86
Mean 84.03
Std Dev 0
pull1D
Entries 86
Mean 0.08714
Std Dev 0.9564

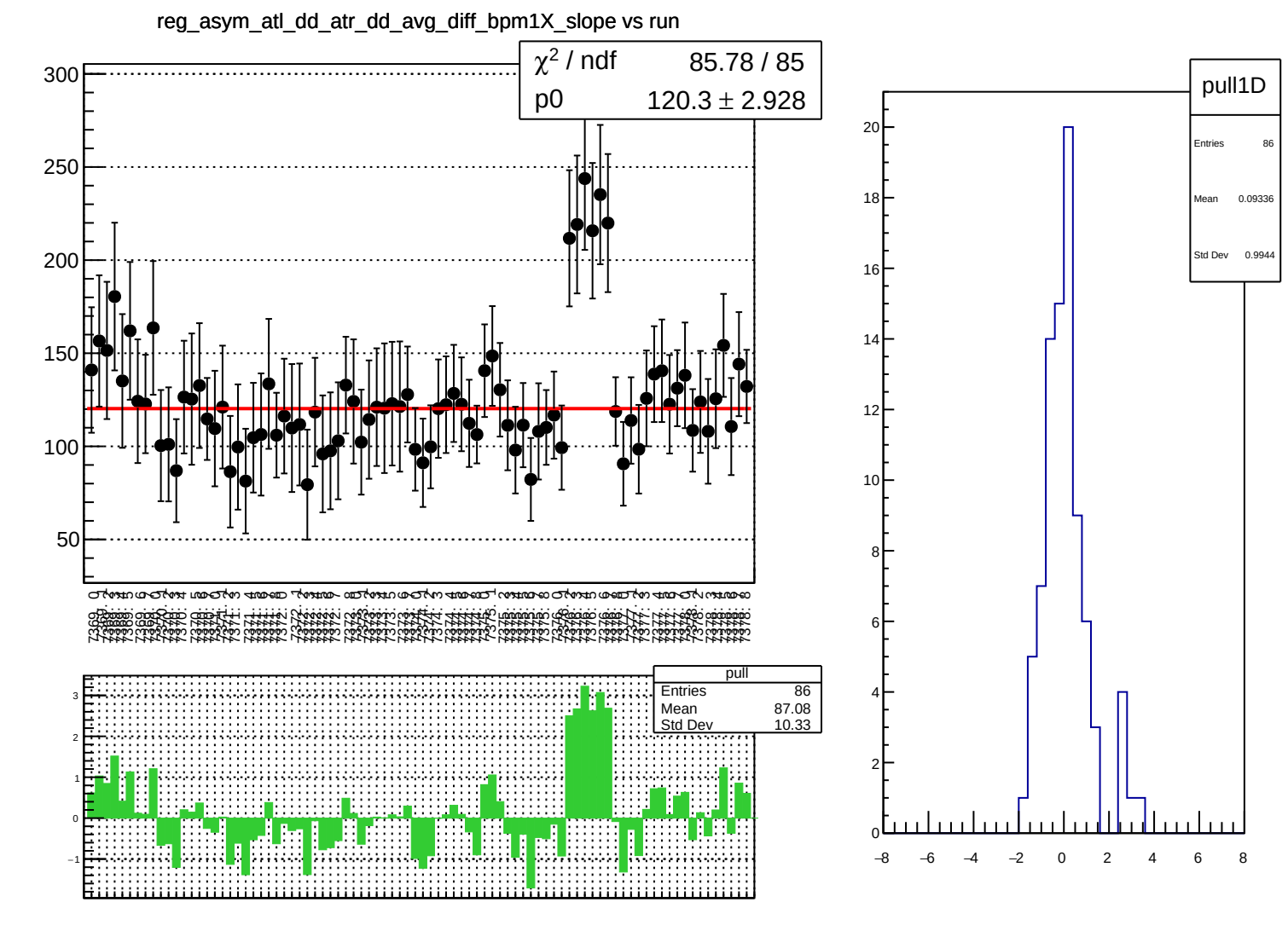

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.61 / 85
p0 36.24 ± 3.244
pull
Entries 86
Mean −338.1
Std Dev 0
pull1D
Entries 86
Mean 0.003057
Std Dev 0.6435

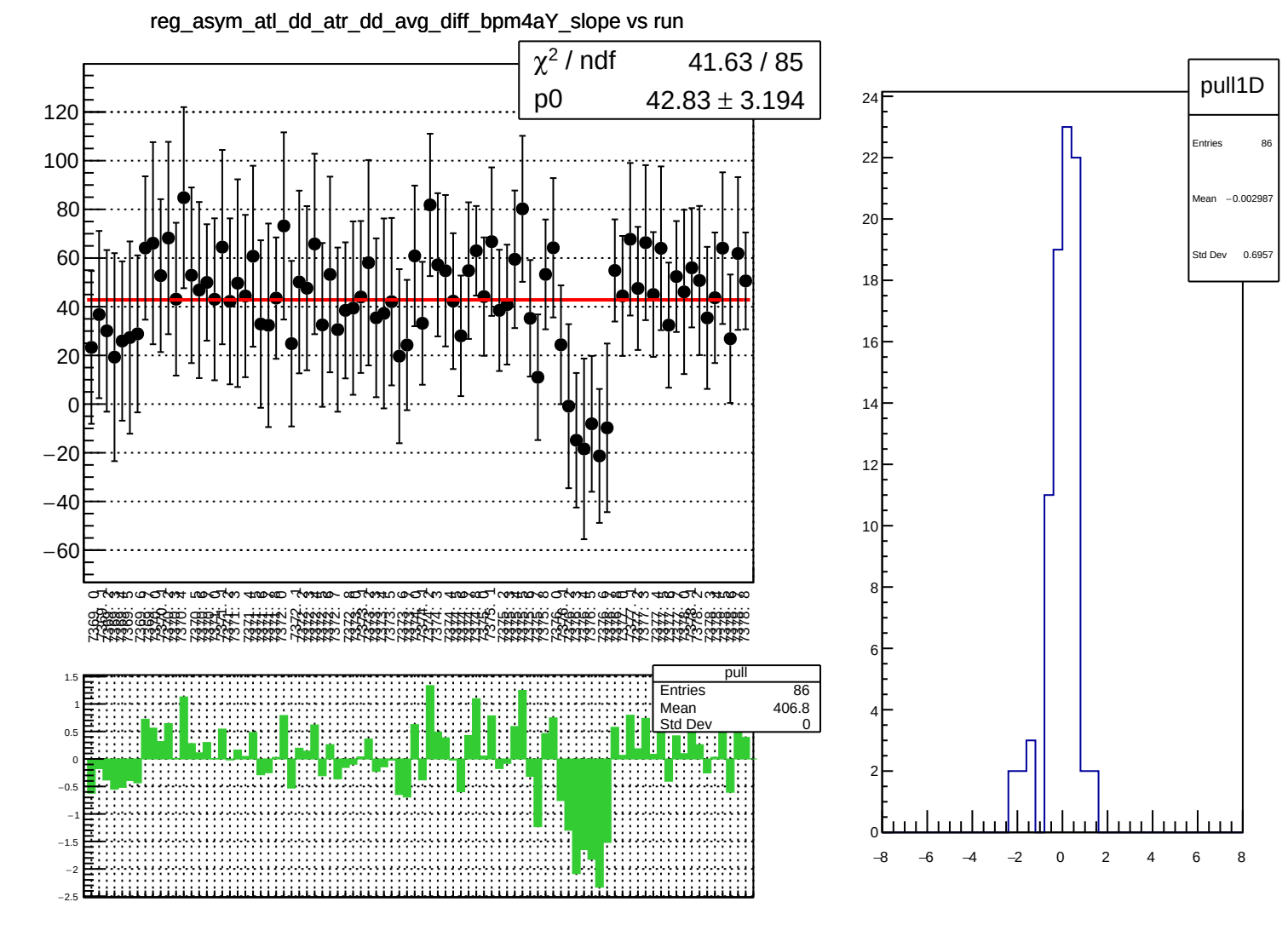

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.28 / 85
p0 −127.3 ± 3.082
pull
Entries 86
Mean 88.5
Std Dev 0

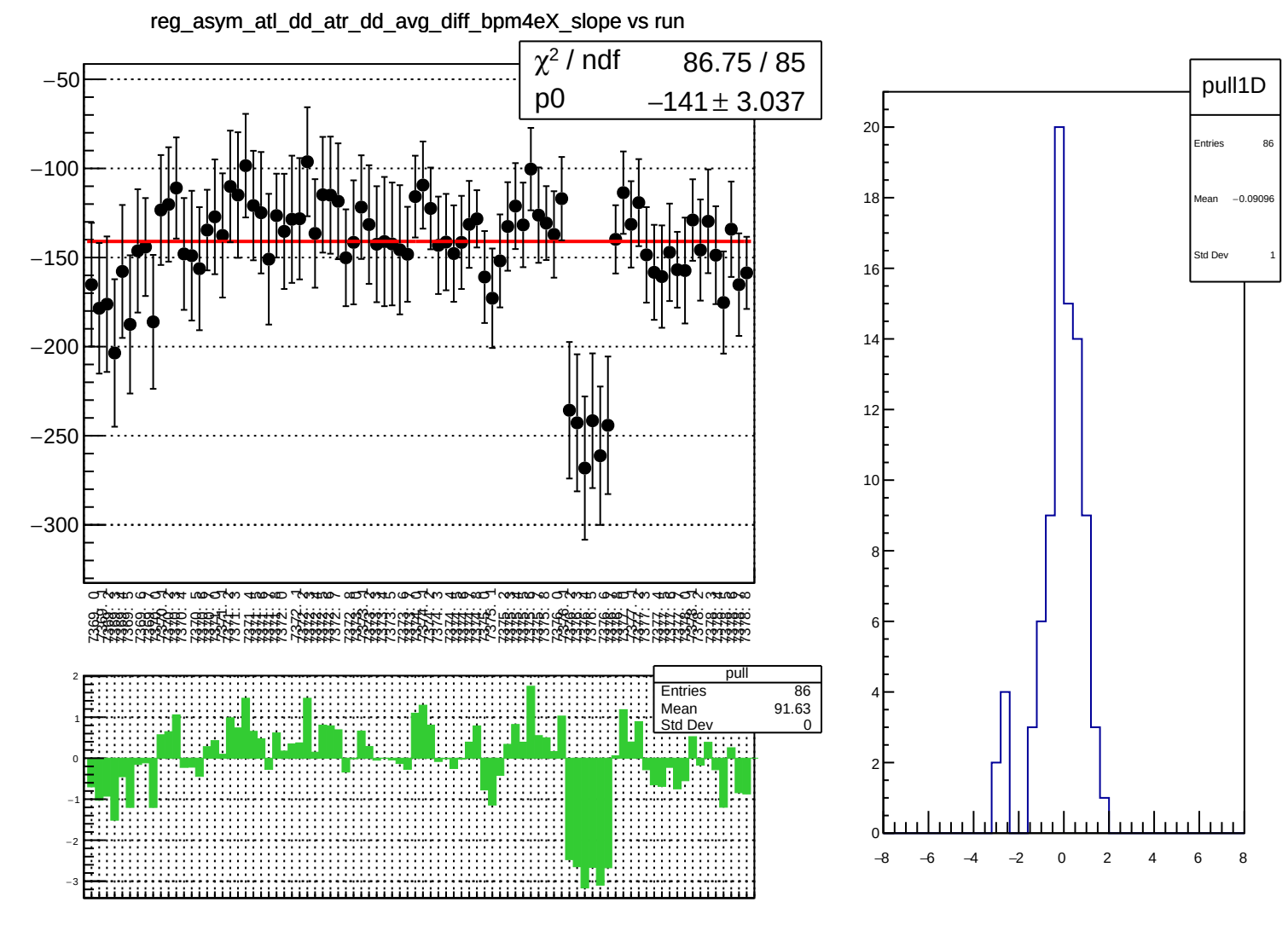

pull1D
Entries 86
Mean −0.08568
Std Dev 0.9624

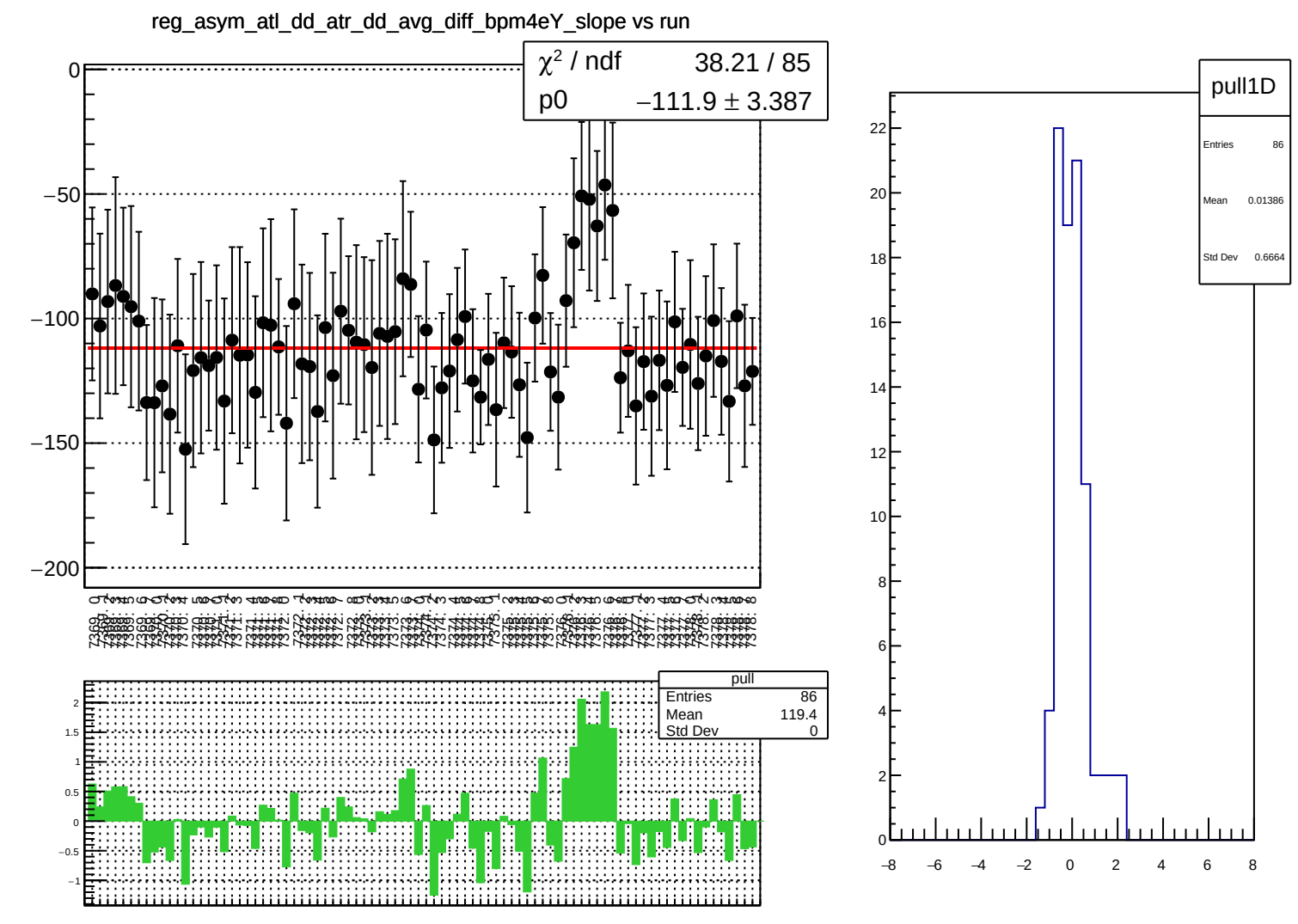

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.42 / 85
p0 −104.3 ± 3.44
pull
Entries 86
Mean 115.8
Std Dev 0
pull1D
Entries 86
Mean 0.009382
Std Dev 0.6326

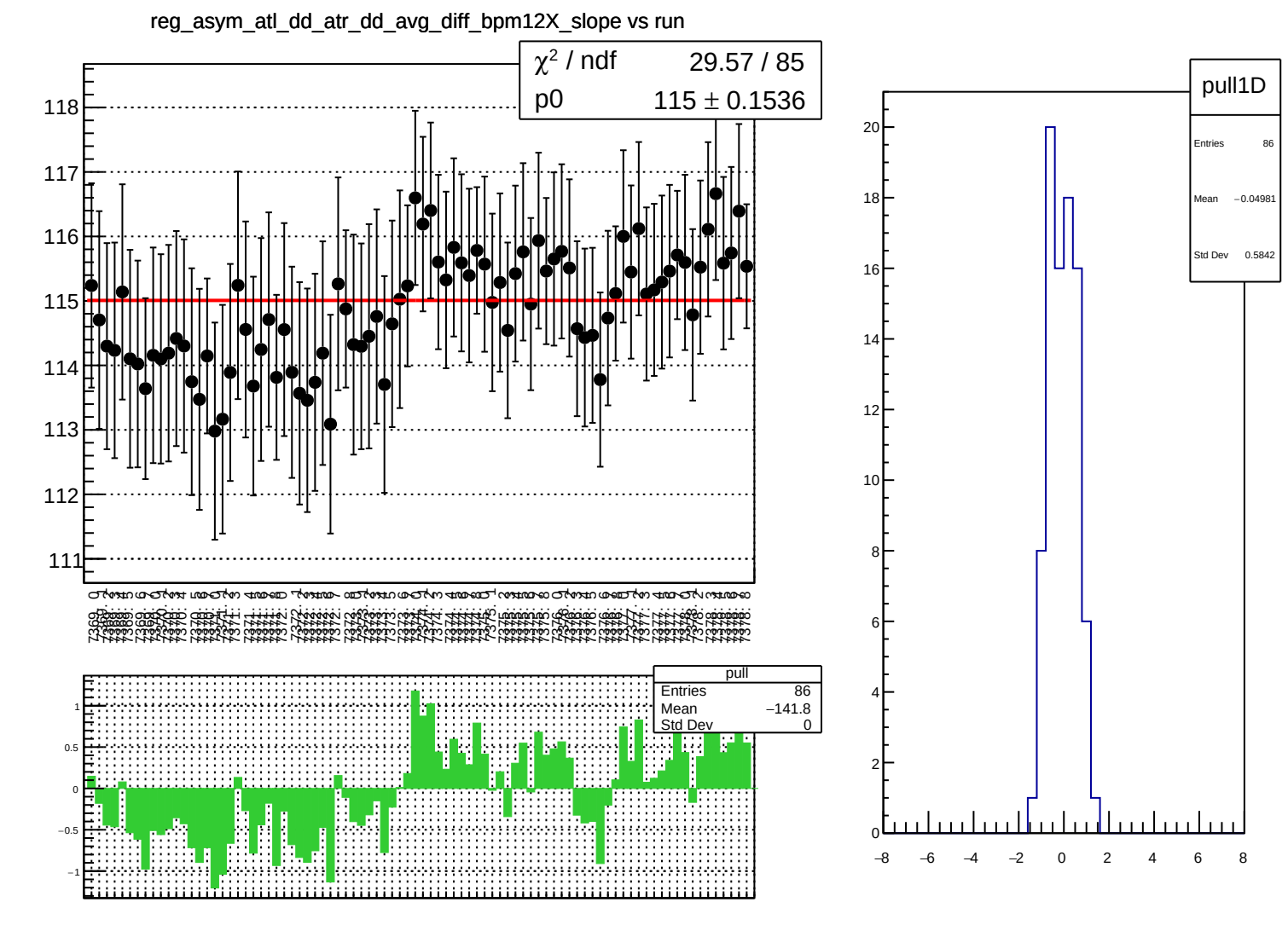

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 25.5 / 85
p0 111.3 ± 0.1558
pull
Entries 86
Mean −167.1
Std Dev 0
pull1D
Entries 86
Mean −0.02458
Std Dev 0.544

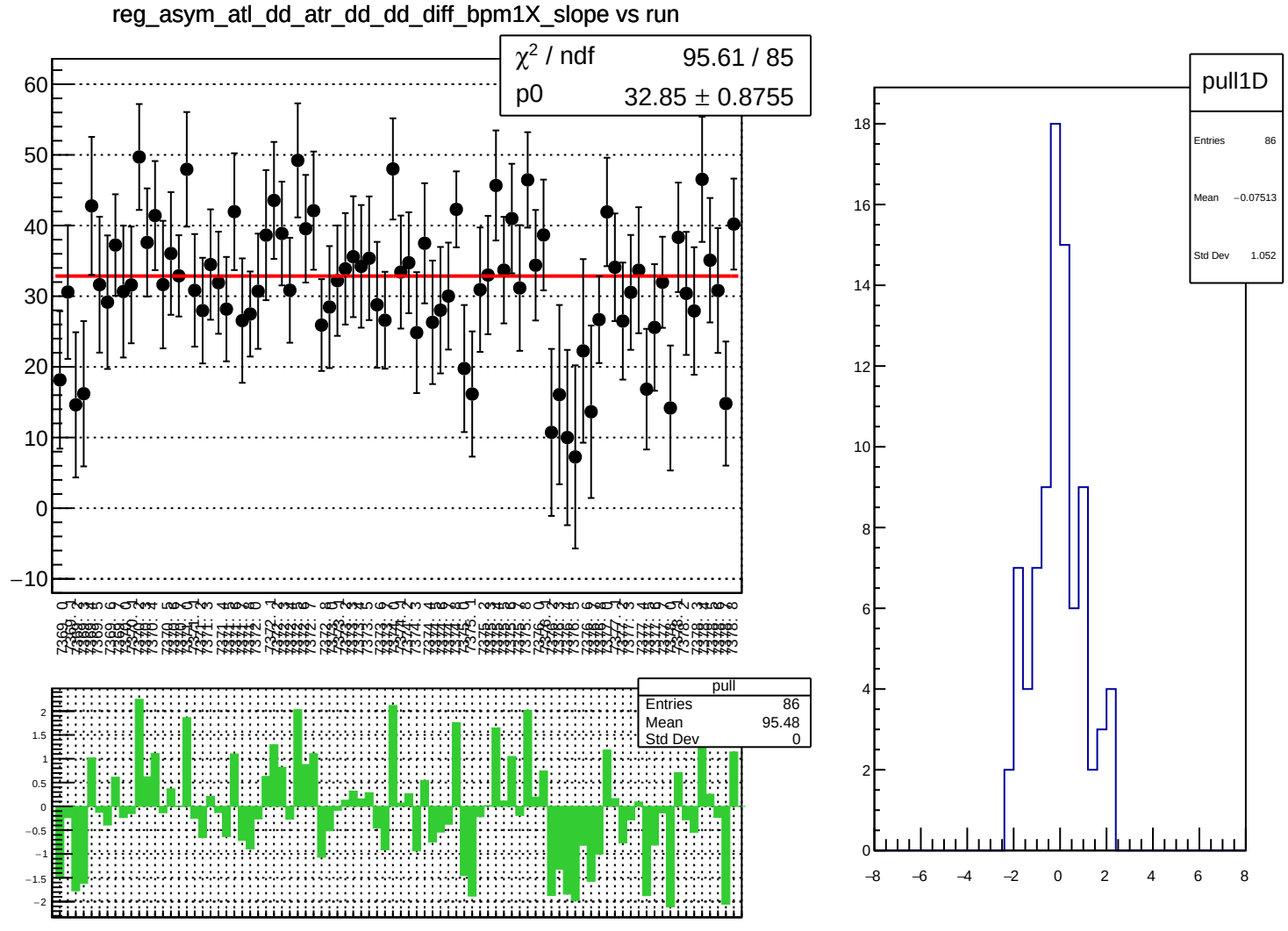

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 85.78 / 85
p0 120.3 ± 2.928
pull
Entries 86
Mean 87.08
Std Dev 10.33
pull1D
Entries 86
Mean 0.09336
Std Dev 0.9944

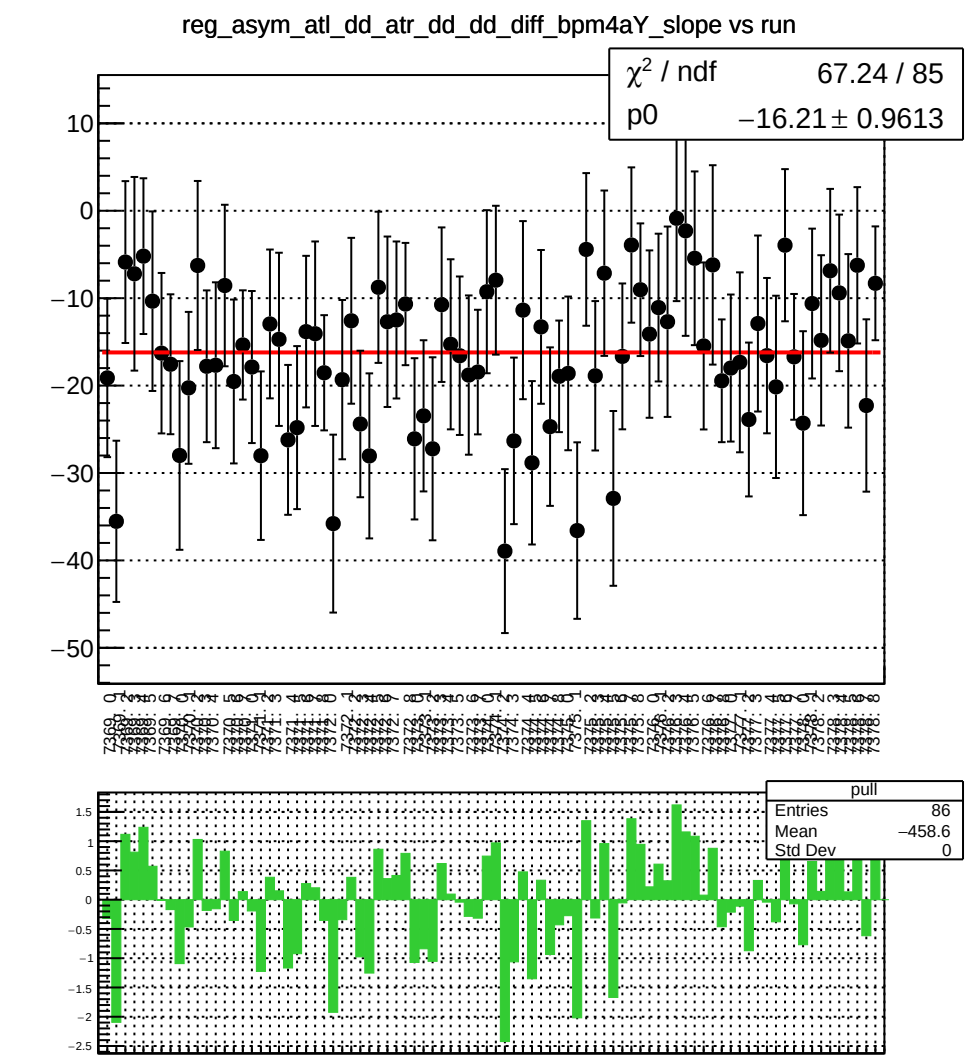

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.63 / 85
p0 42.83 ± 3.194
pull
Entries 86
Mean 406.8
Std Dev 0
pull1D
Entries 86
Mean −0.002987
Std Dev 0.6957

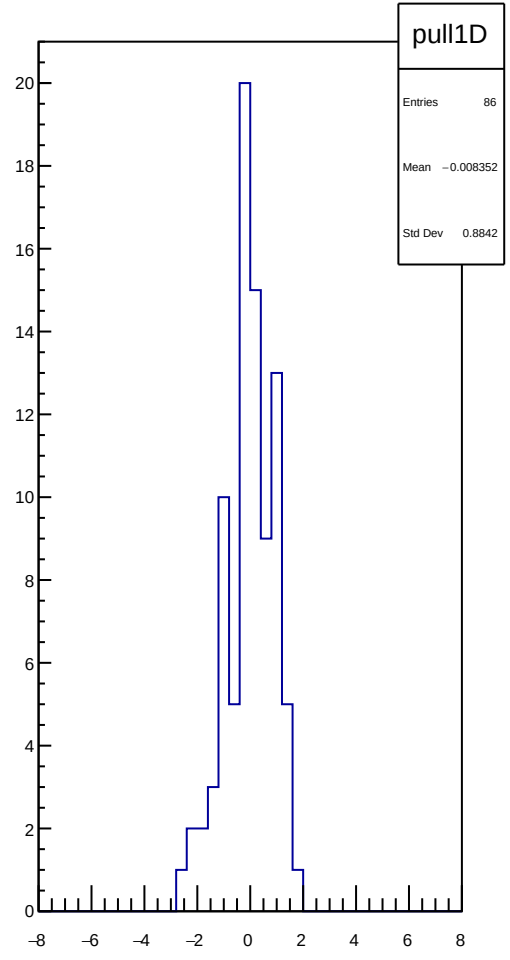

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 86.75 / 85
p0 −141 ± 3.037
pull
Entries 86
Mean 91.63
Std Dev 0
pull1D
Entries 86
Mean −0.09096
Std Dev 1

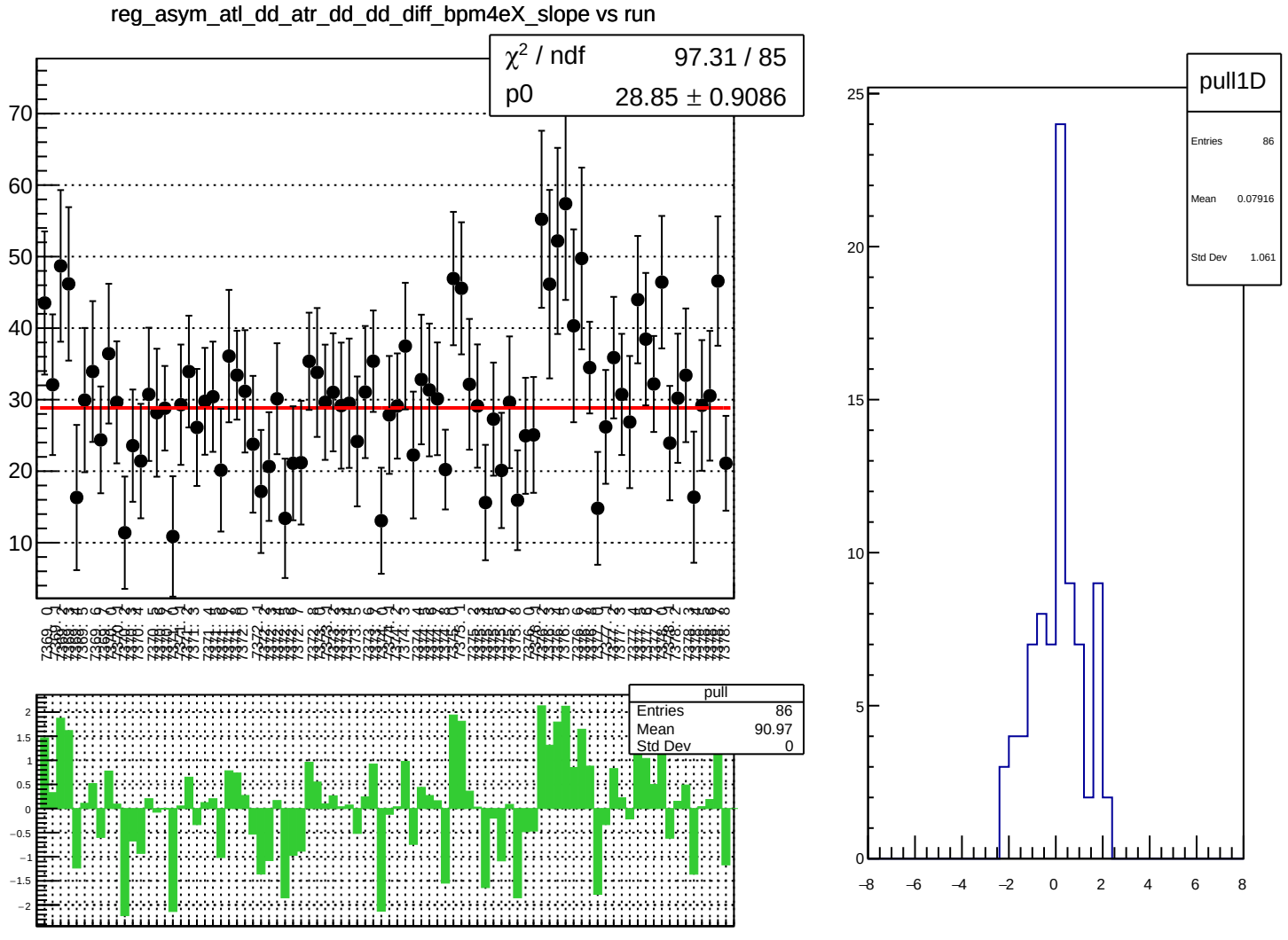

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.21 / 85
p0 −111.9 ± 3.387
pull
Entries 86
Mean 119.4
Std Dev 0
pull1D
Entries 86
Mean 0.01386
Std Dev 0.6664

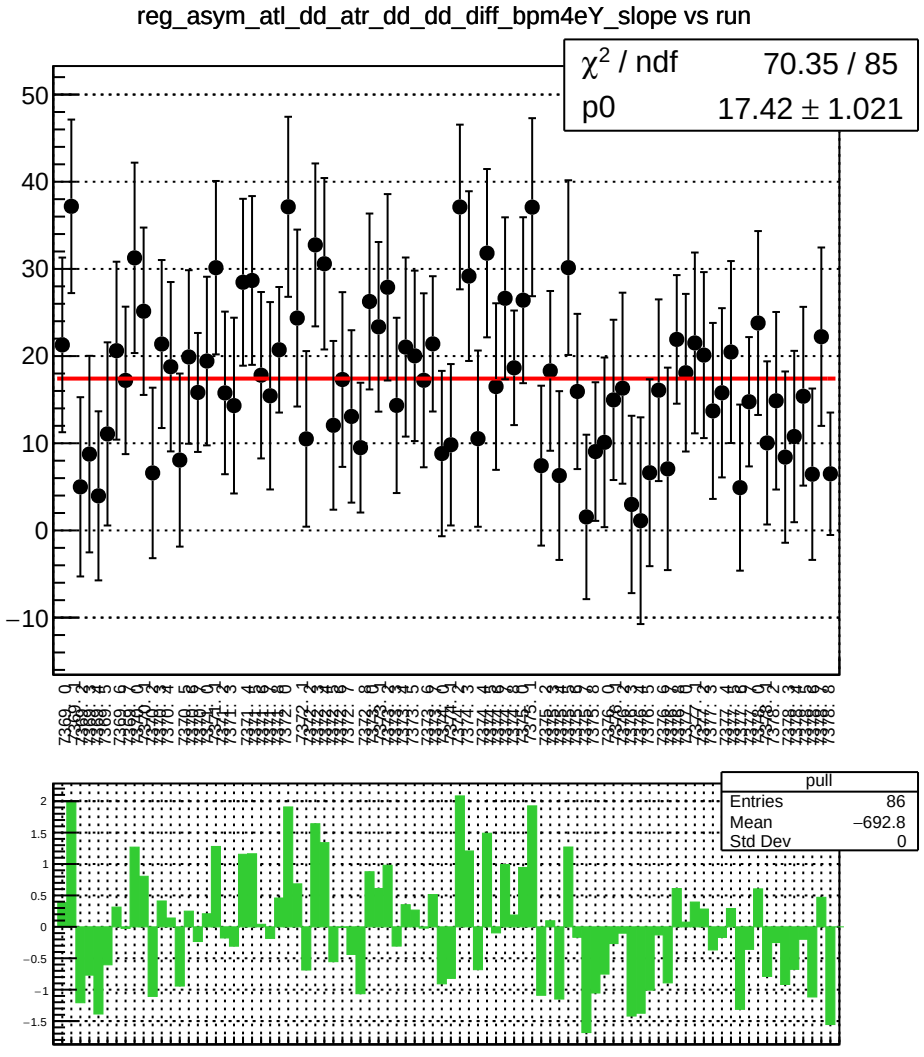

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 29.57 / 85
p0 115 ± 0.1536
pull
Entries 86
Mean −141.8
Std Dev 0
pull1D
Entries 86
Mean −0.04981
Std Dev 0.5842

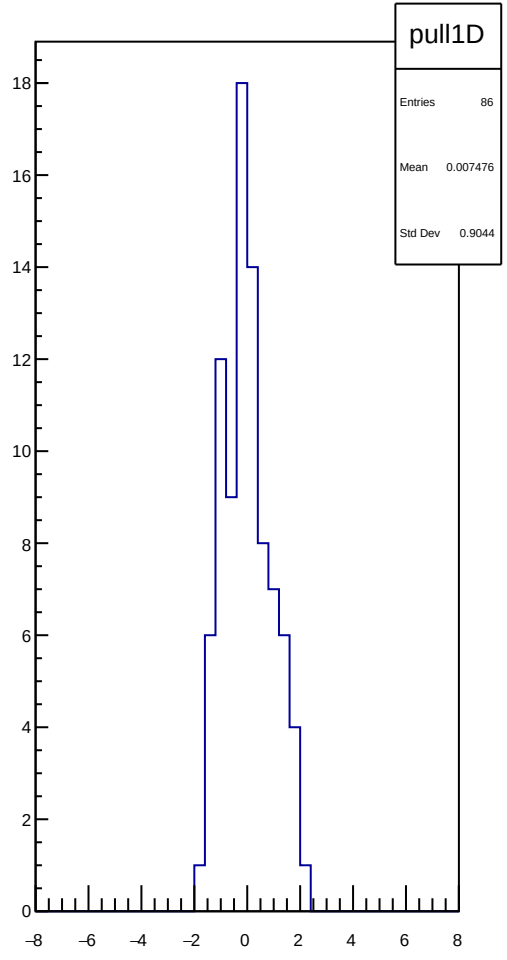

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 95.61 / 85
p0 32.85 ± 0.8755
pull
Entries 86
Mean 95.48
Std Dev 0
pull1D
Entries 86
Mean −0.07513
Std Dev 1.052

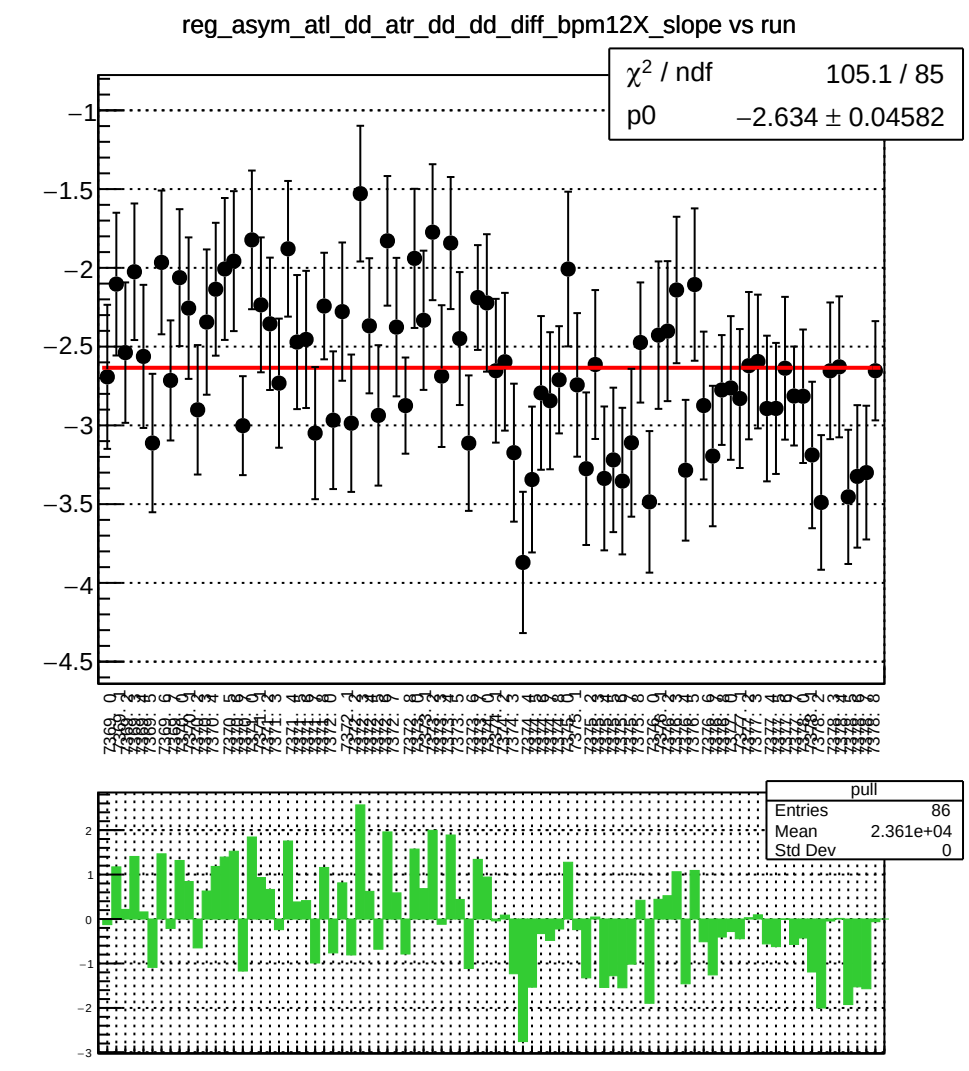

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.24 / 85
p0 −16.21 ± 0.9613
pull
Entries 86
Mean −458.6
Std Dev 0

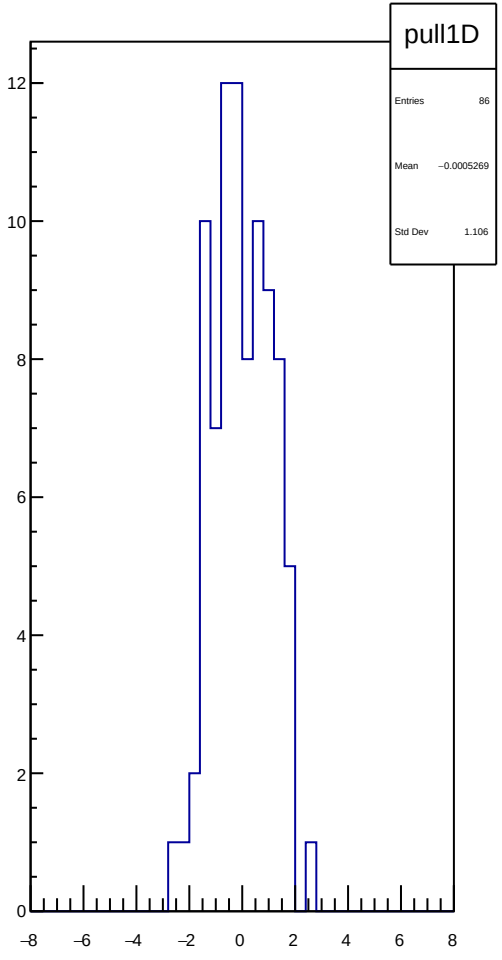

pull1D
Entries 86
Mean −0.008352
Std Dev 0.8842

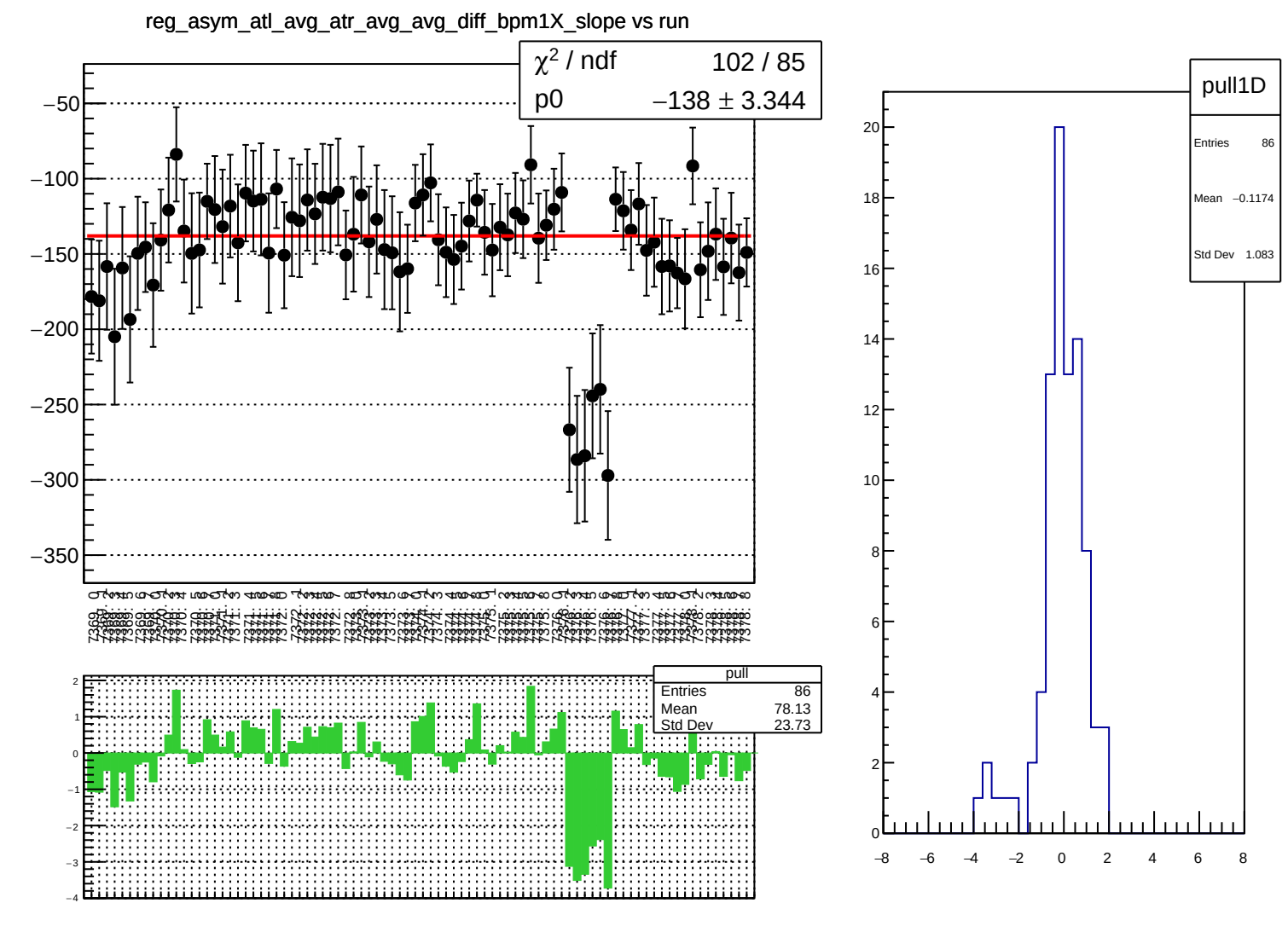

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 97.31 / 85
p0 28.85 ± 0.9086
pull
Entries 86
Mean 90.97
Std Dev 0
pull1D
Entries 86
Mean 0.07916
Std Dev 1.061

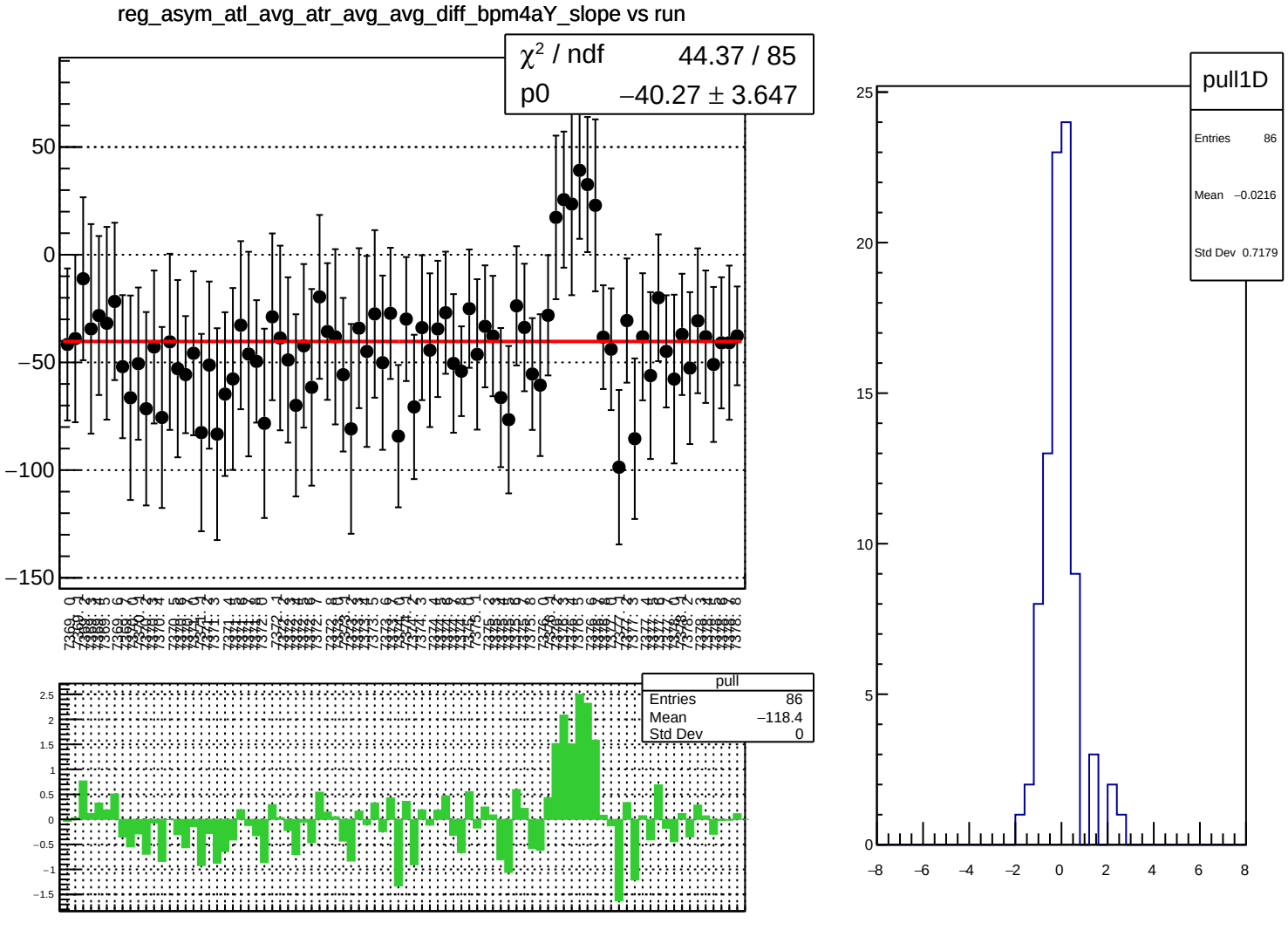

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.35 / 85
p0 17.42 ± 1.021
pull
Entries 86
Mean −692.8
Std Dev 0

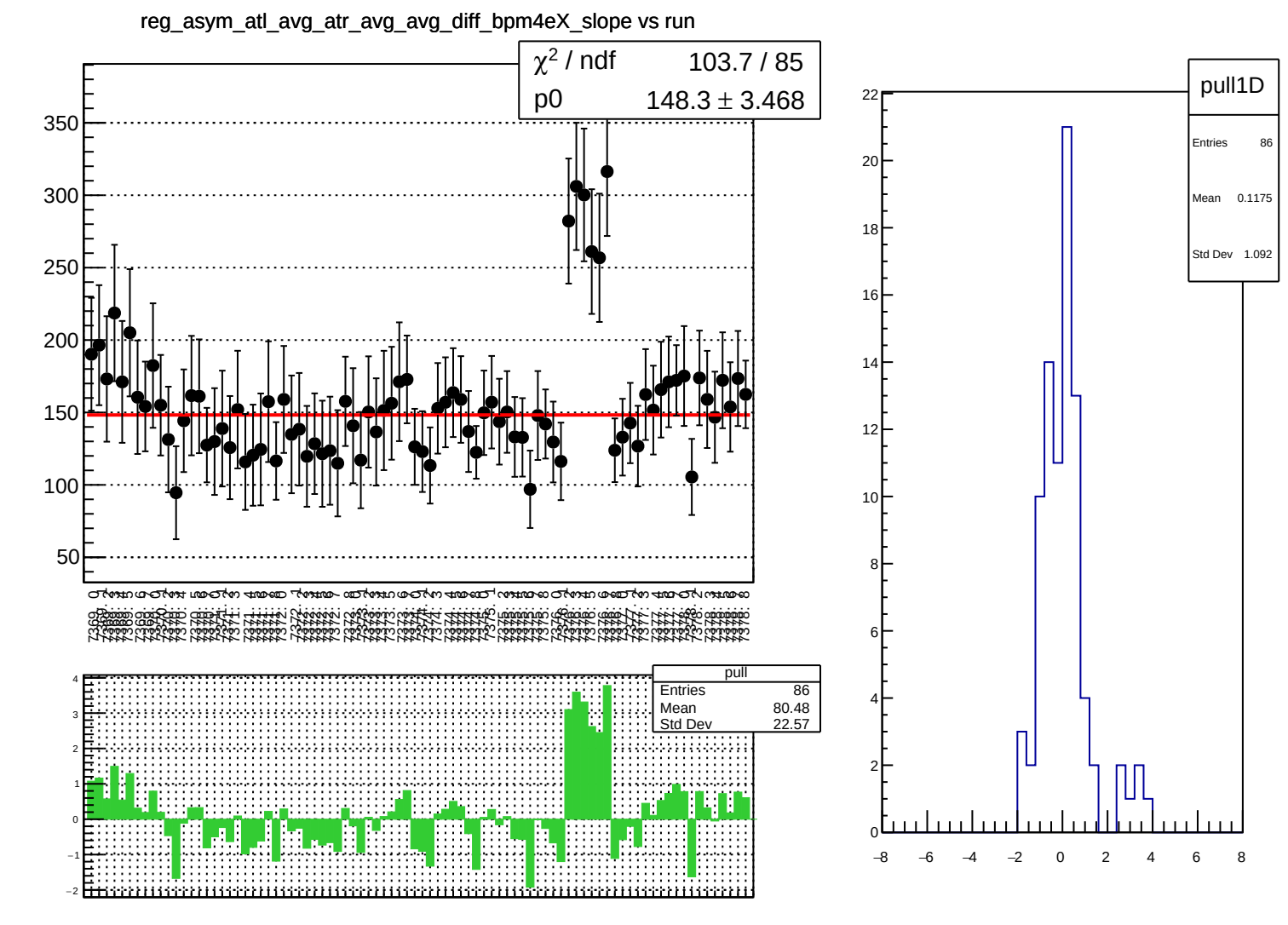

pull1D
Entries 86
Mean 0.007476
Std Dev 0.9044

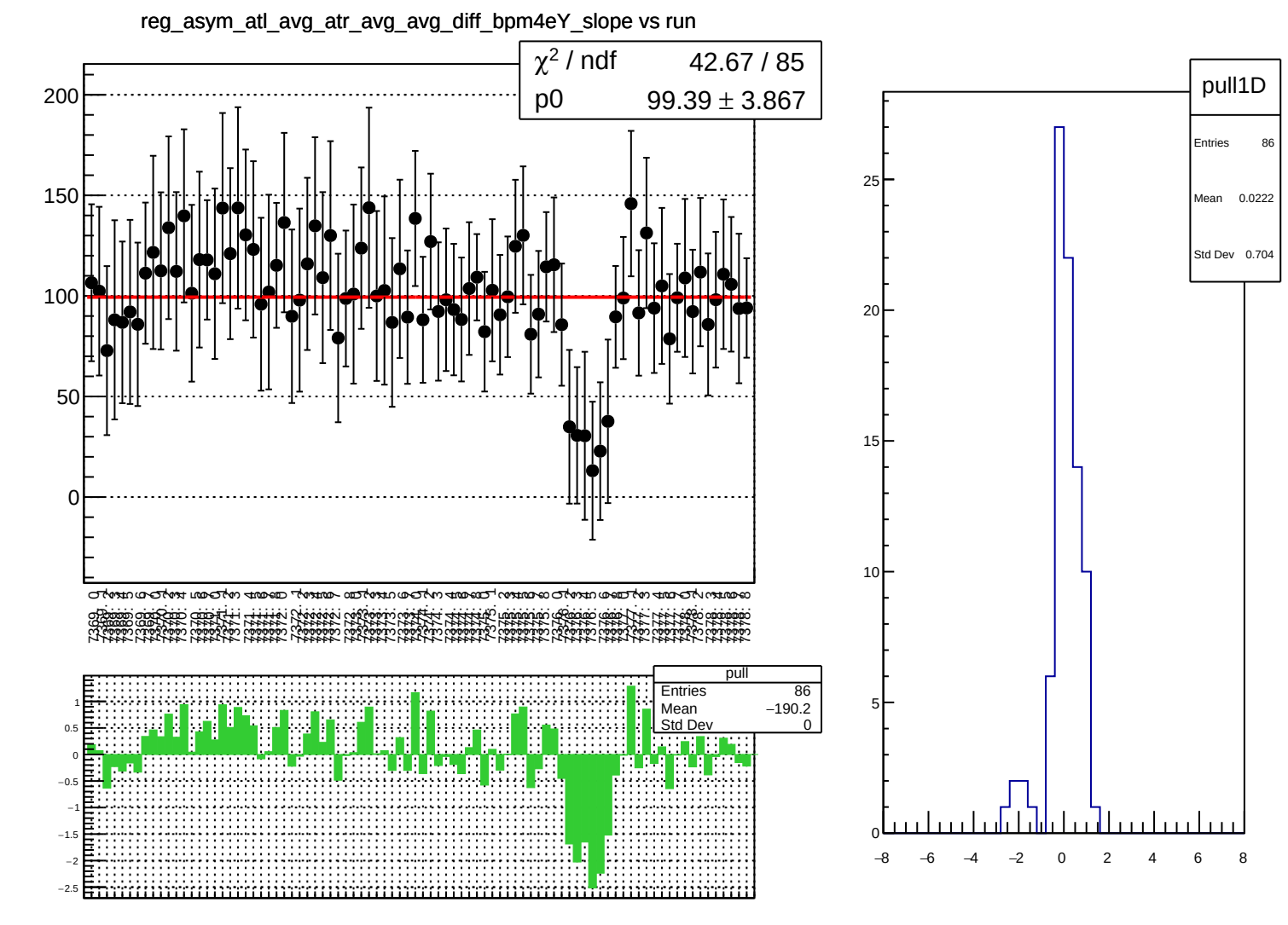

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 105.1 / 85
p0 −2.634 ± 0.04582
pull
Entries 86
Mean 2.361e+04
Std Dev 0

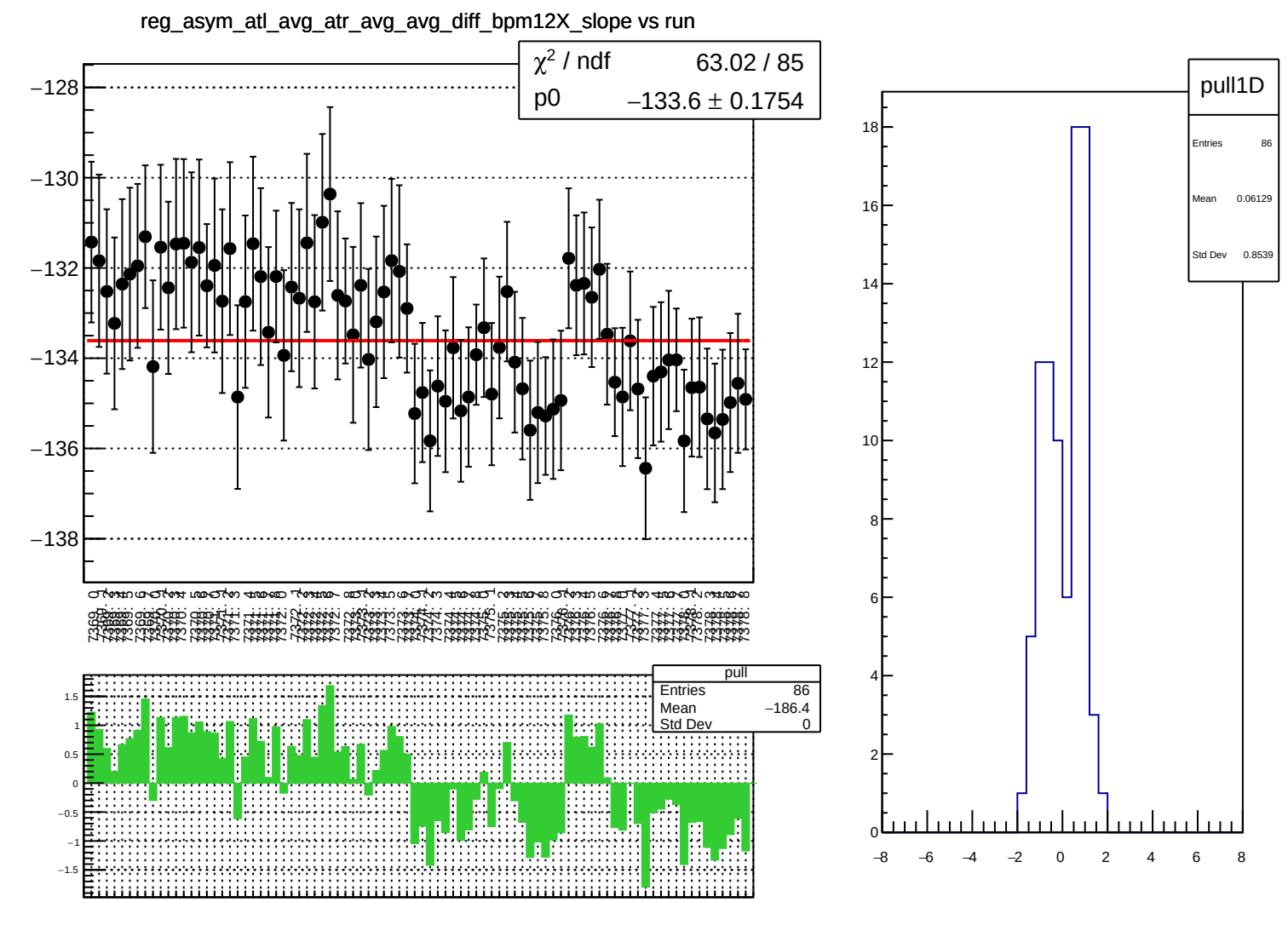

pull1D
Entries 86
Mean −0.0005269
Std Dev 1.106

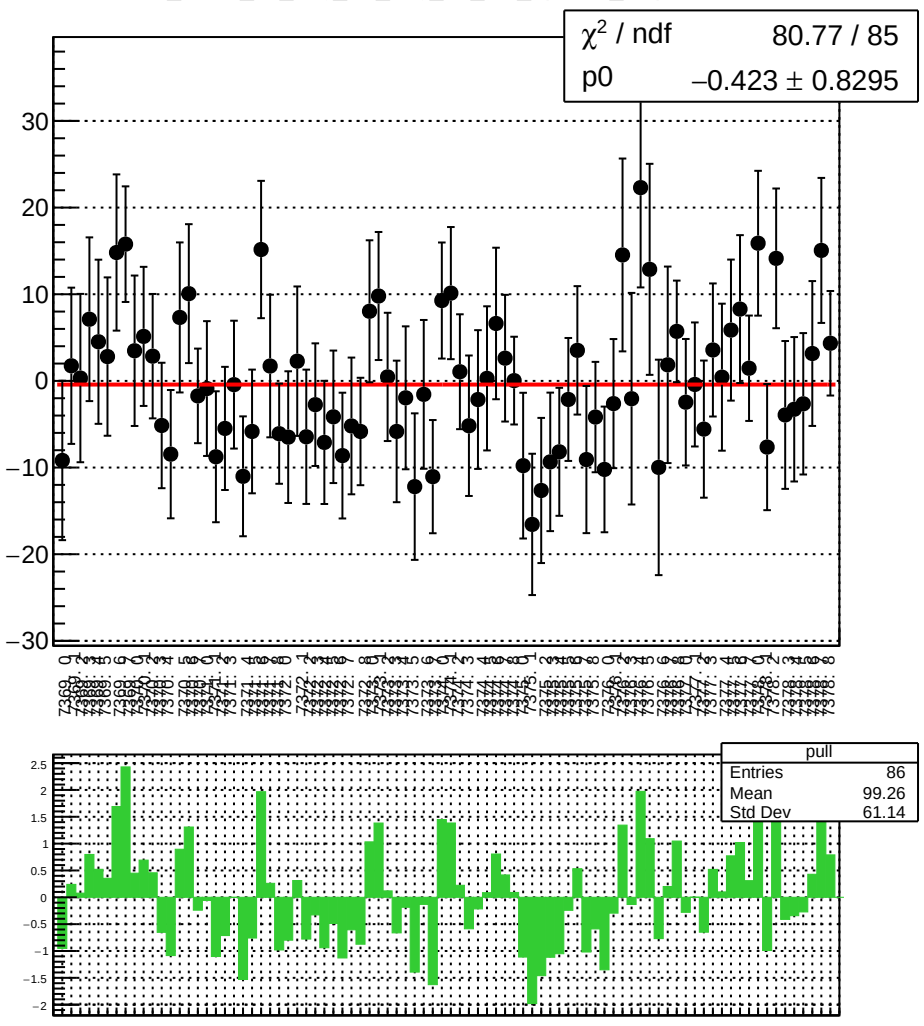

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 102 / 85
p0 −138 ± 3.344
pull
Entries 86
Mean 78.13
Std Dev 23.73
pull1D
Entries 86
Mean −0.1174
Std Dev 1.083

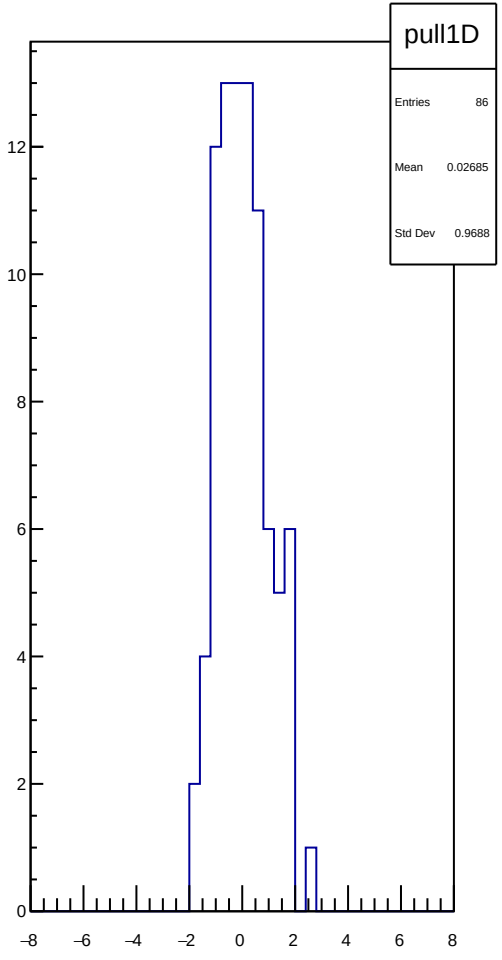

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.37 / 85
p0 −40.27 ± 3.647
pull
Entries 86
Mean −118.4
Std Dev 0
pull1D
Entries 86
Mean −0.0216
Std Dev 0.7179

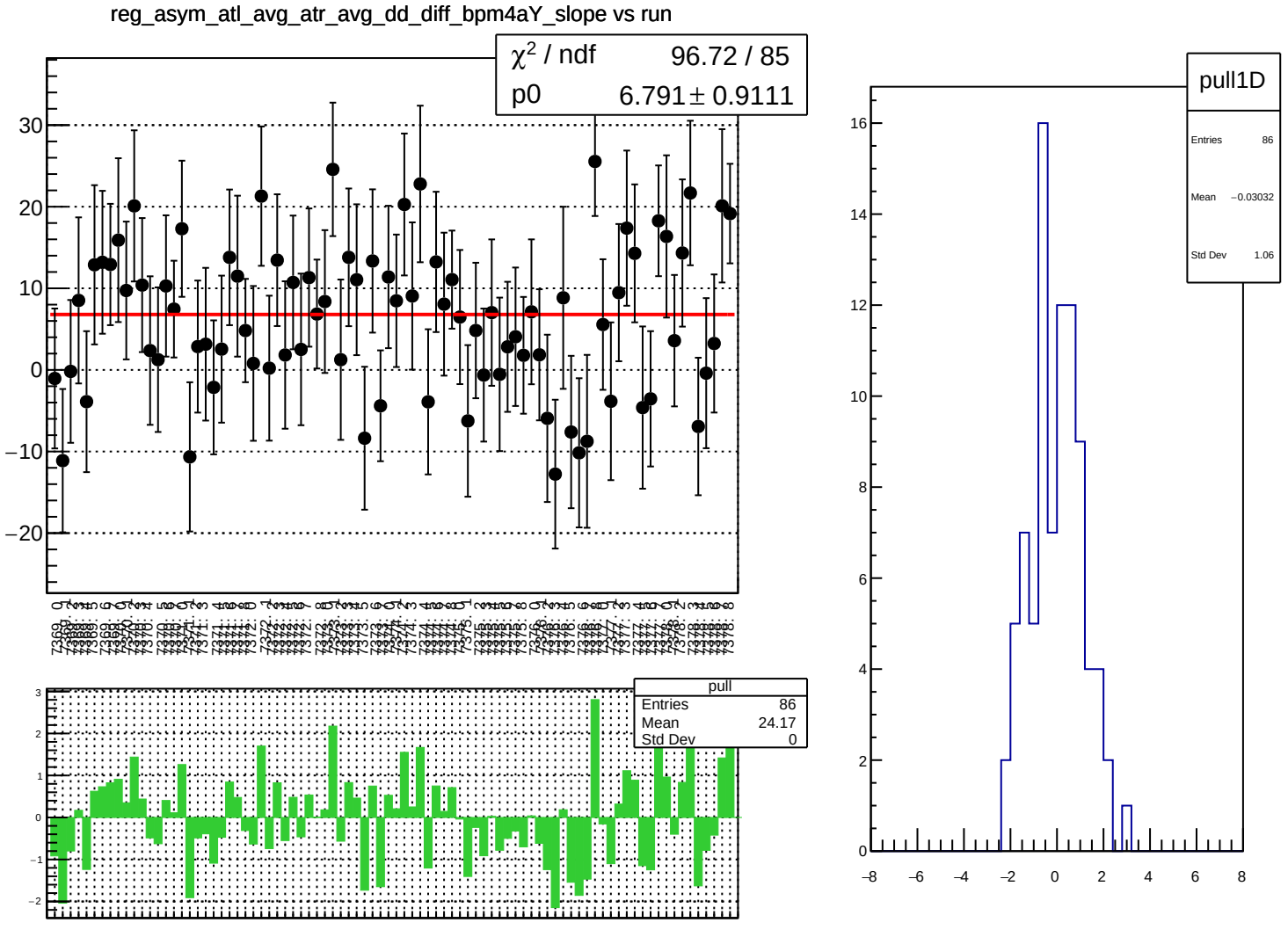

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.7 / 85
p0 148.3 ± 3.468
pull
Entries 86
Mean 80.48
Std Dev 22.57
pull1D
Entries 86
Mean 0.1175
Std Dev 1.092

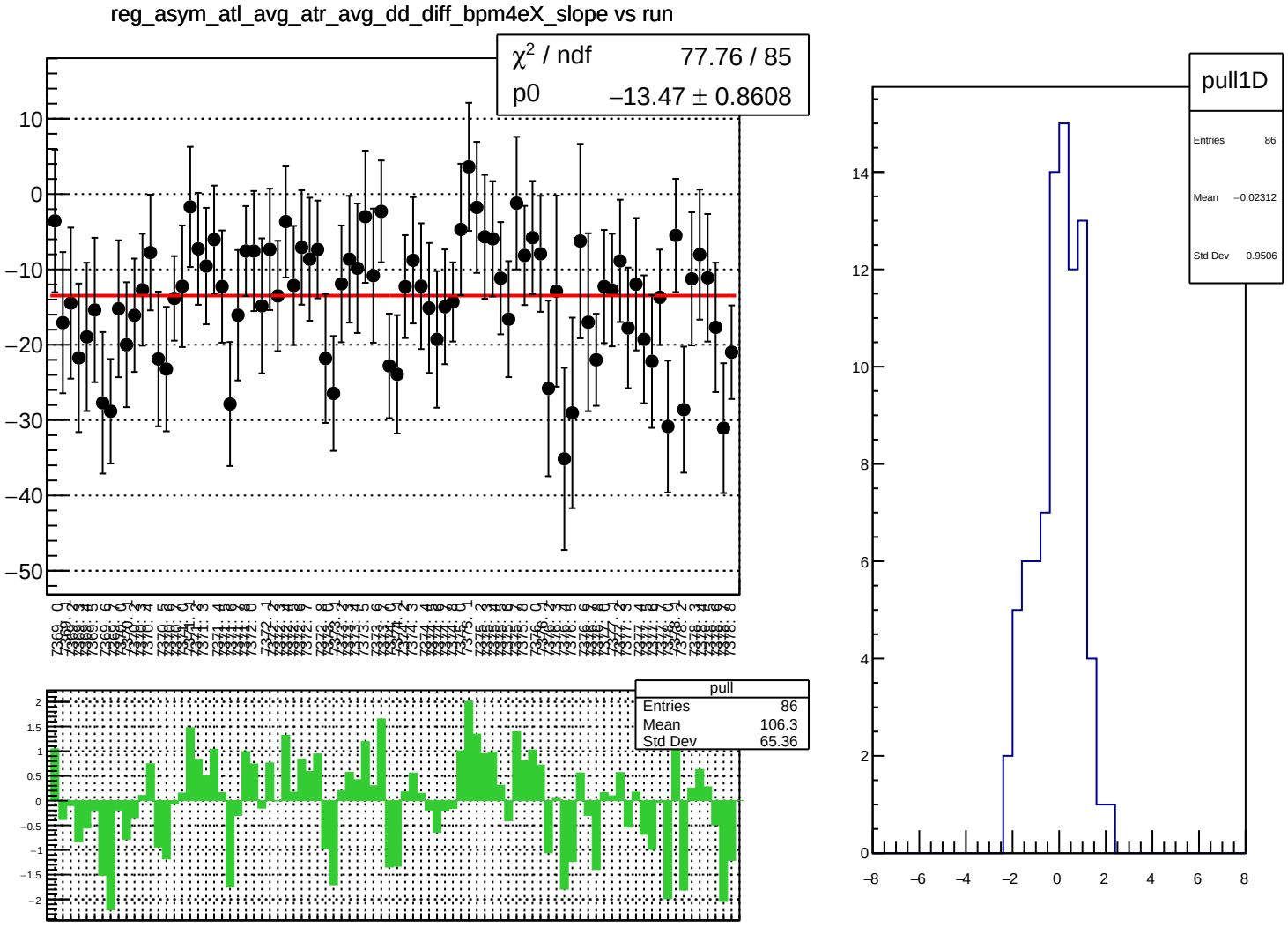

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.67 / 85
p0 99.39 ± 3.867
pull
Entries 86
Mean −190.2
Std Dev 0
pull1D
Entries 86
Mean 0.0222
Std Dev 0.704

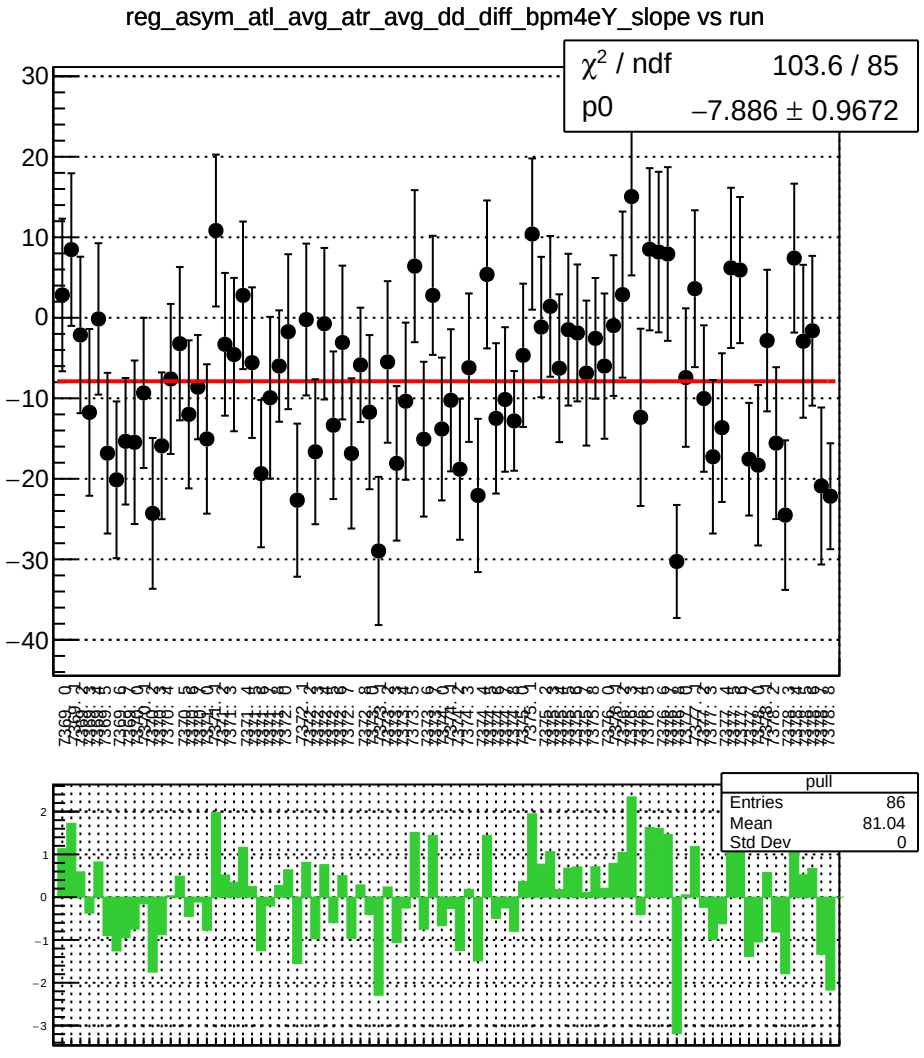

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 63.02 / 85
p0 −133.6 ± 0.1754
−128
−130
−132
−134
−136
−138
pull
Entries 86
Mean −186.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.06129
Std Dev 0.8539
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

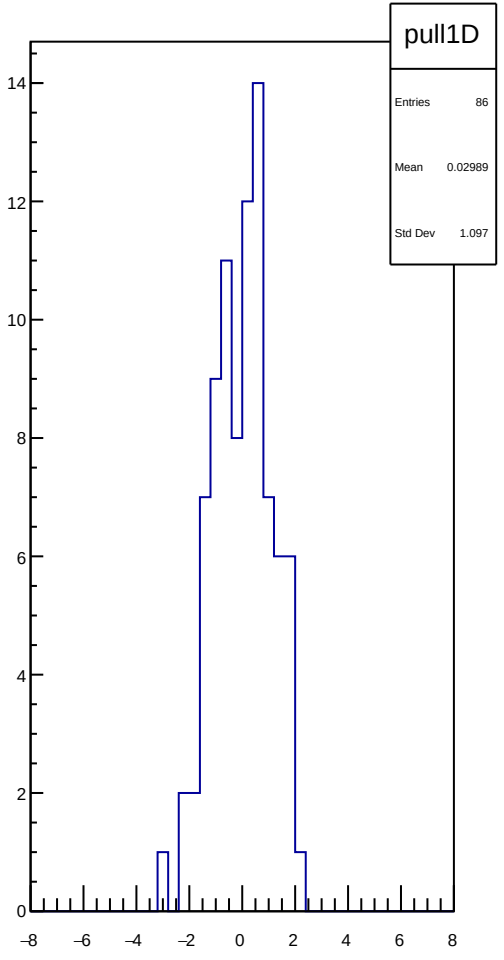

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 80.77 / 85
p0 −0.423 ± 0.8295
pull
Entries 86
Mean 99.26
Std Dev 61.14

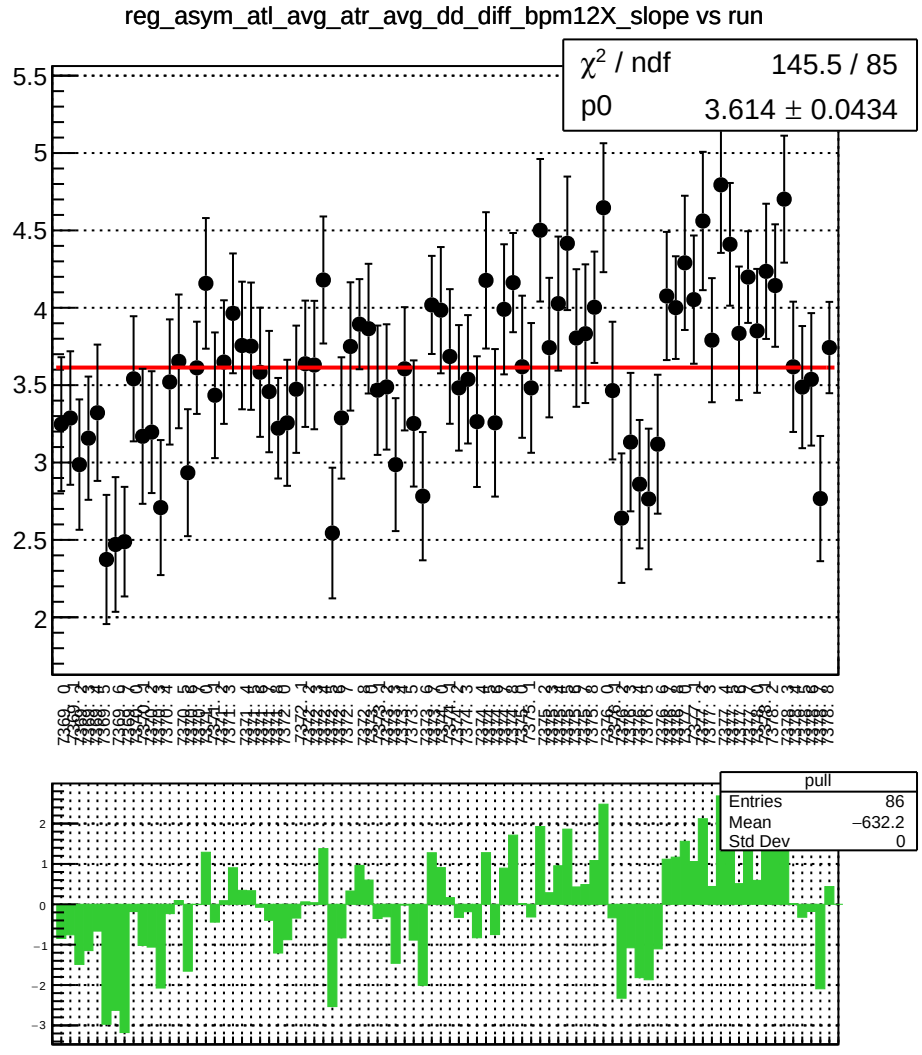

pull1D
Entries 86
Mean 0.02685
Std Dev 0.9688

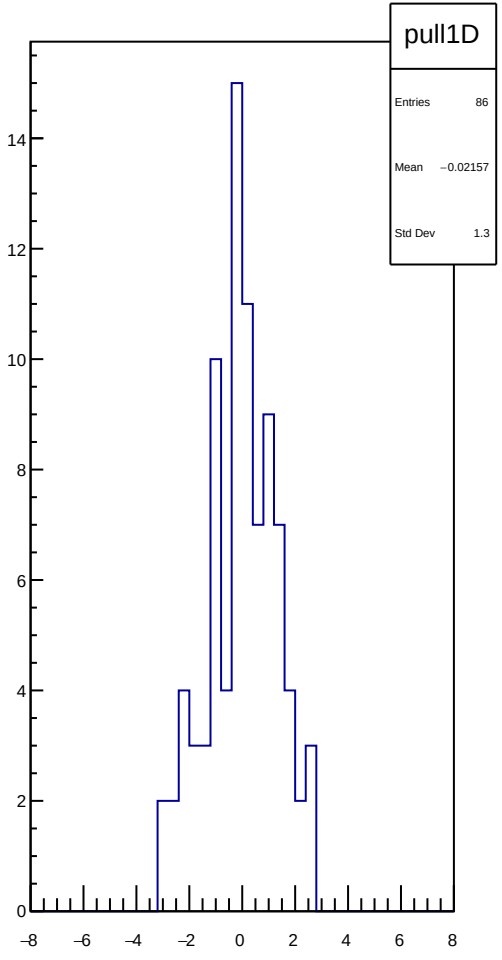

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.72 / 85
p0 6.791 ± 0.9111
pull
Entries 86
Mean 24.17
Std Dev 0
pull1D
Entries 86
Mean −0.03032
Std Dev 1.06

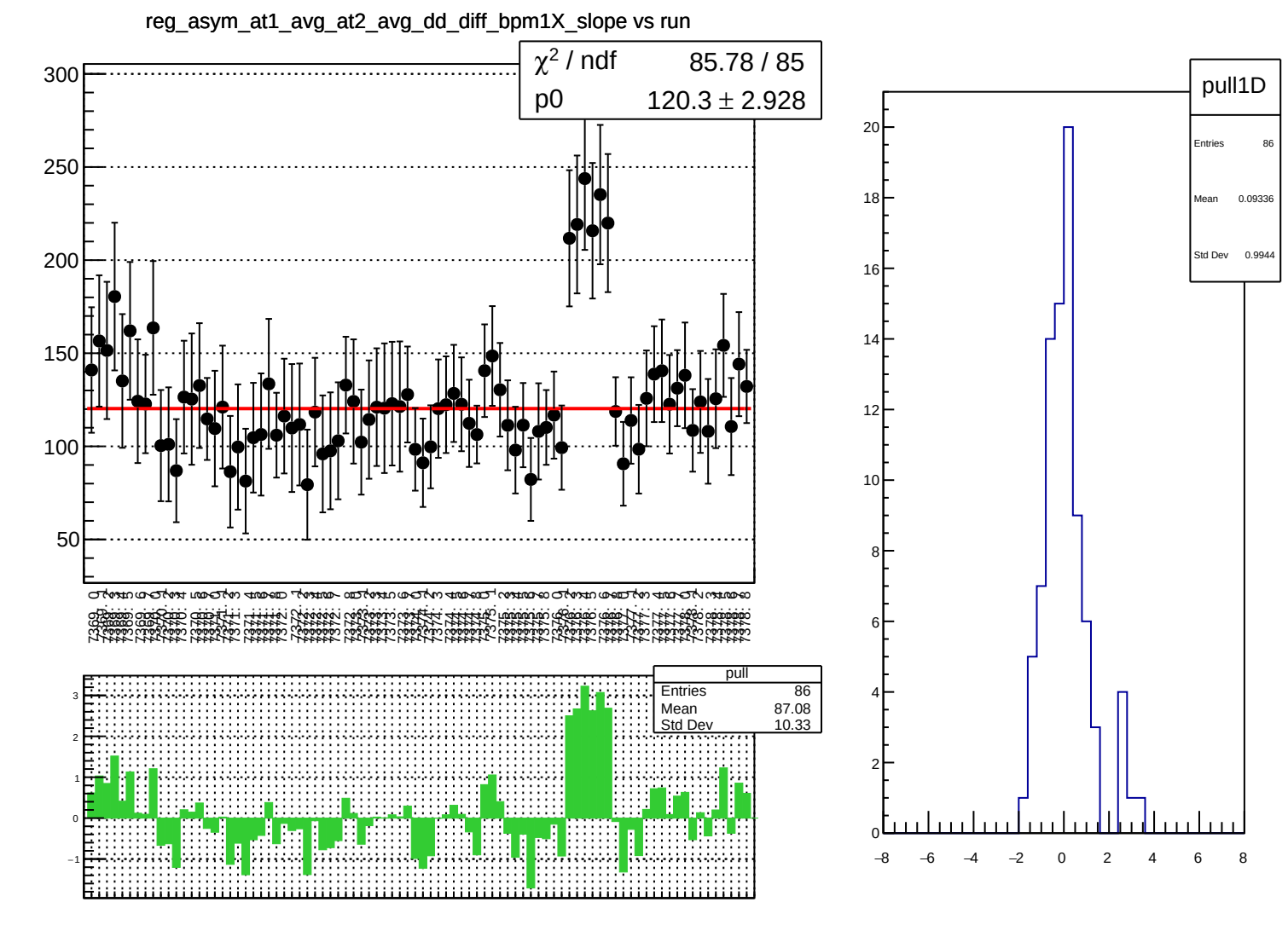

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.76 / 85
p0 −13.47 ± 0.8608
pull
Entries 86
Mean 106.3
Std Dev 65.36
pull1D
Entries 86
Mean −0.02312
Std Dev 0.9506

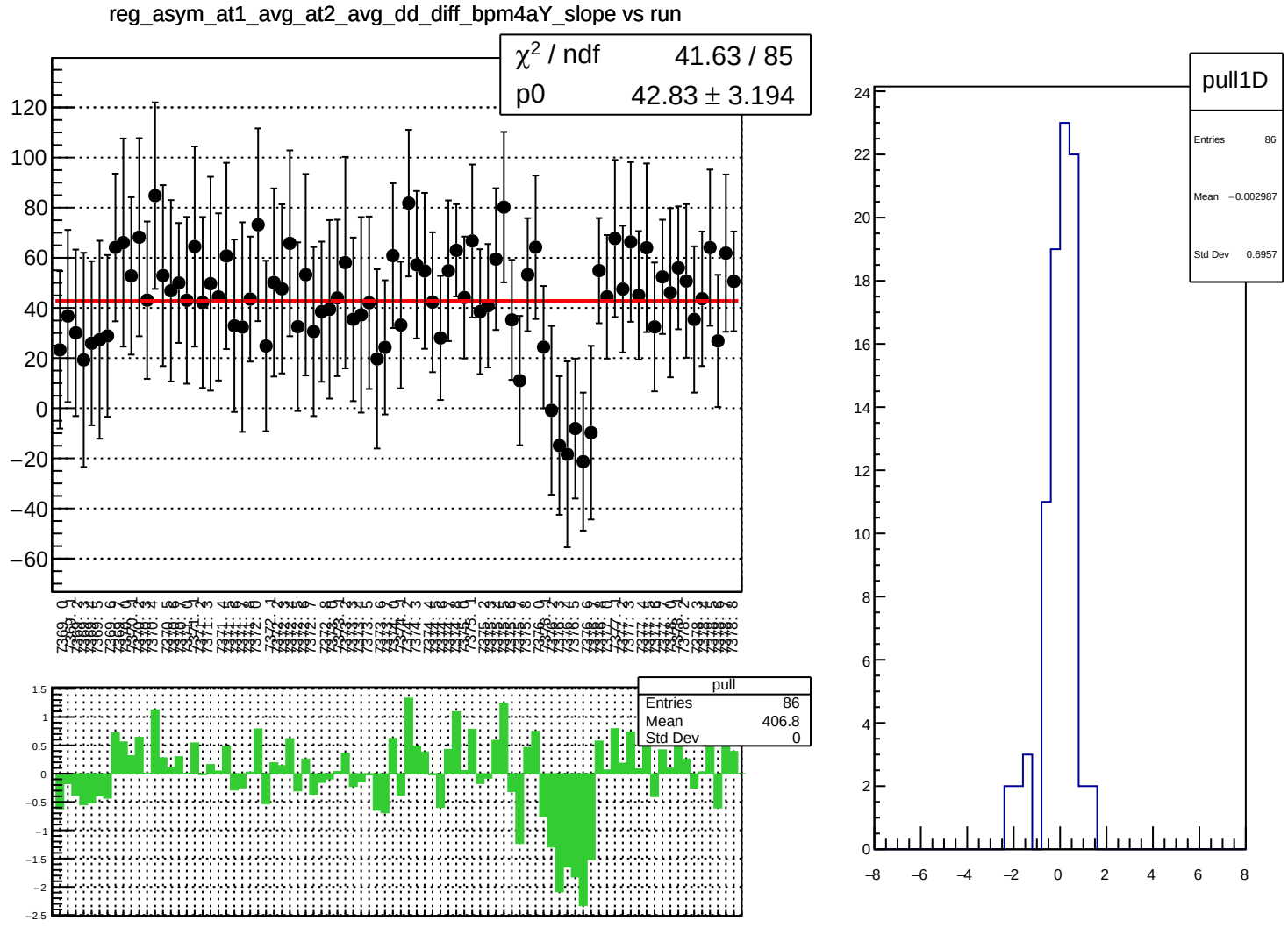

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 103.6 / 85
p0 −7.886 ± 0.9672
pull
Entries 86
Mean 81.04
Std Dev 0

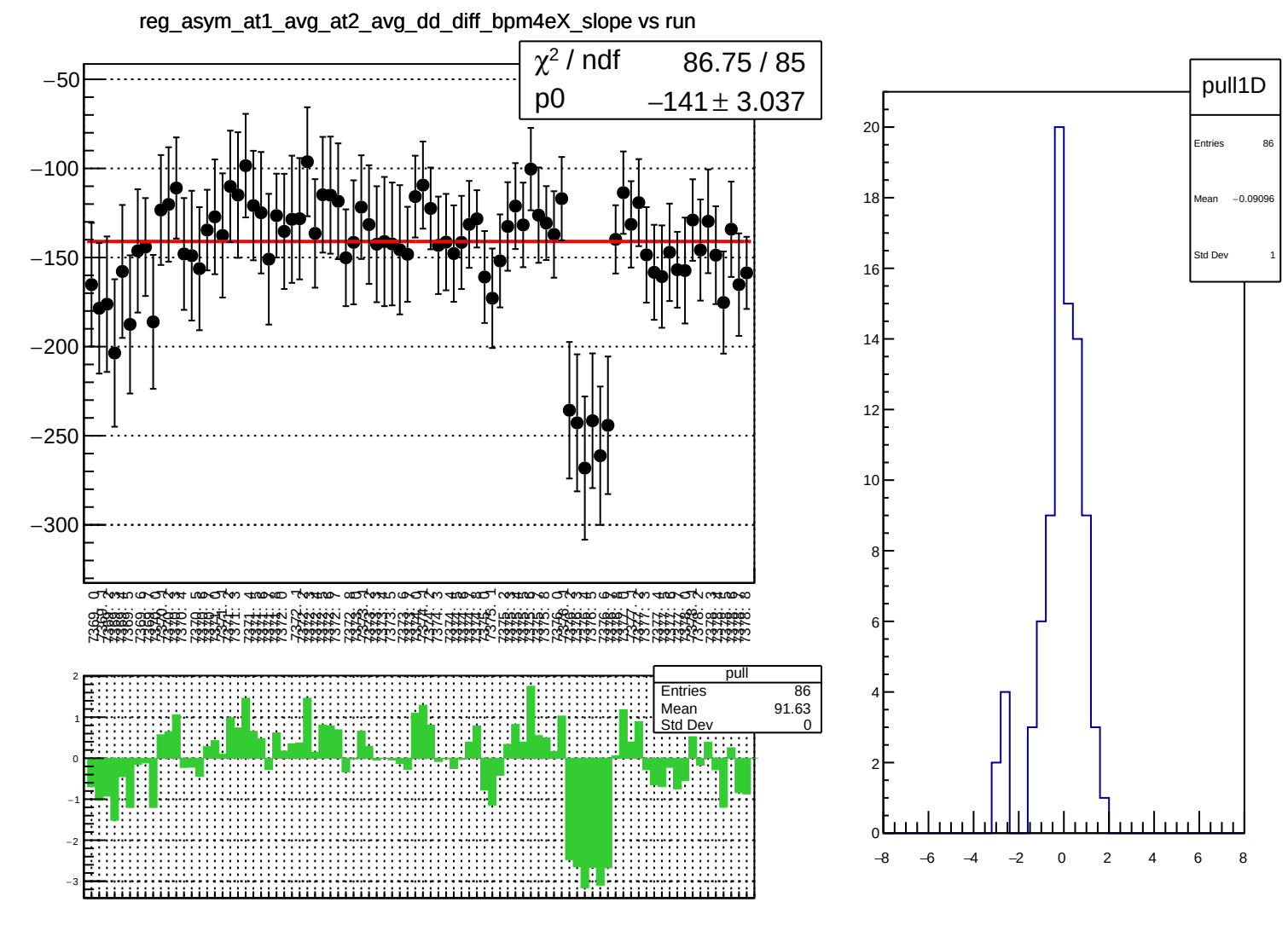

pull1D
Entries 86
Mean 0.02989
Std Dev 1.097

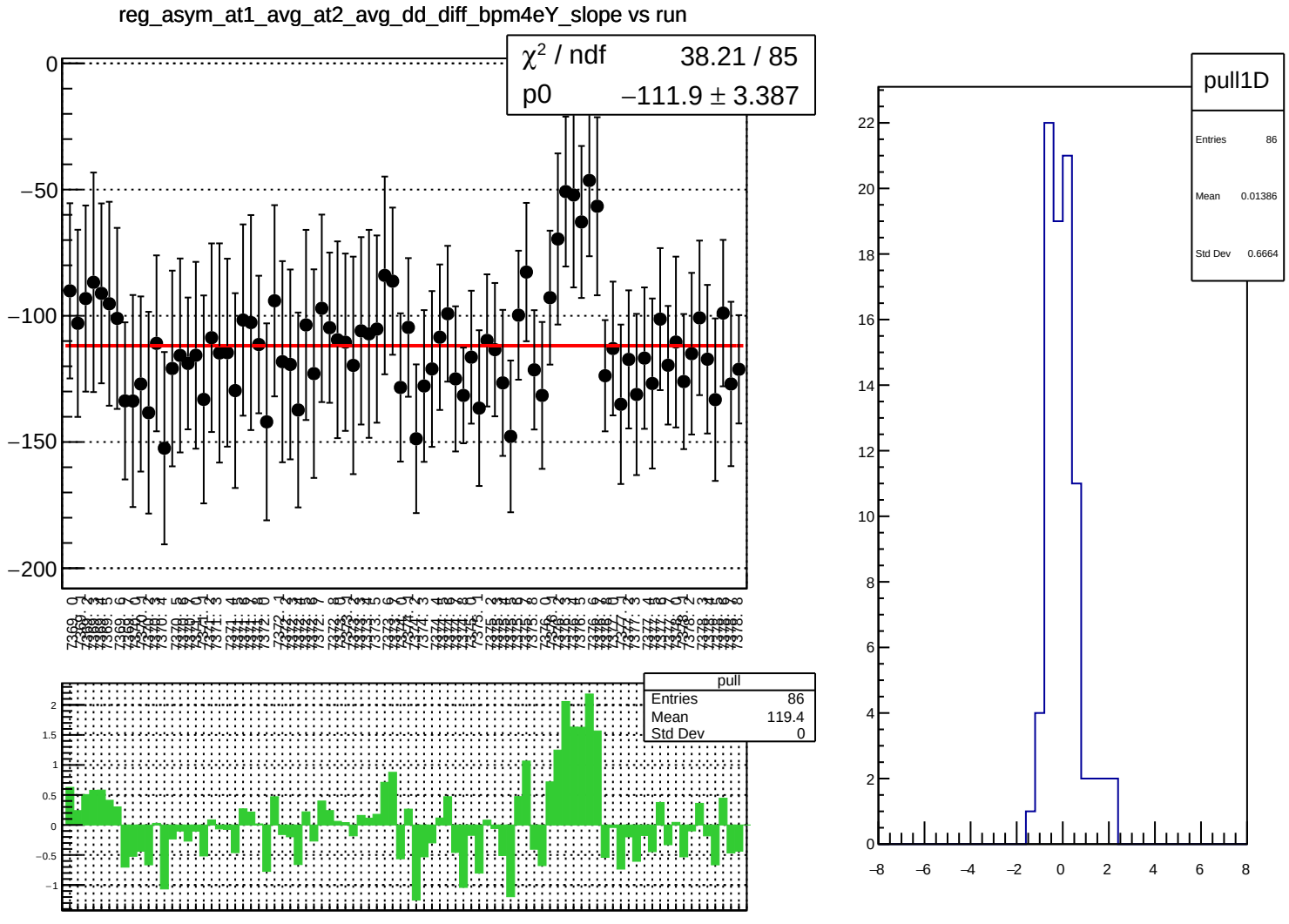

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 145.5 / 85
p0 3.614 ± 0.0434
pull
Entries 86
Mean −632.2
Std Dev 0

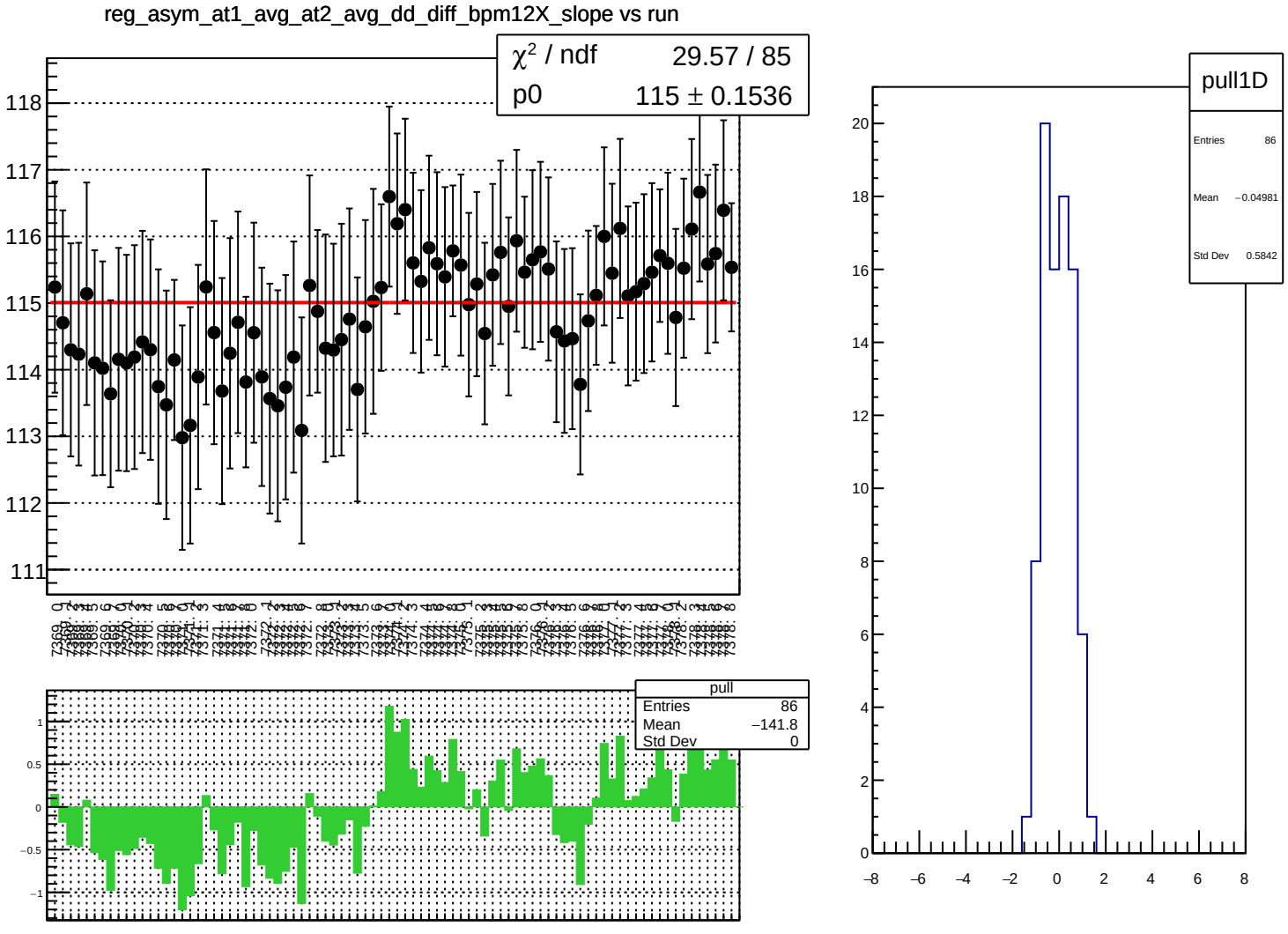

pull1D
Entries 86
Mean −0.02157
Std Dev 1.3

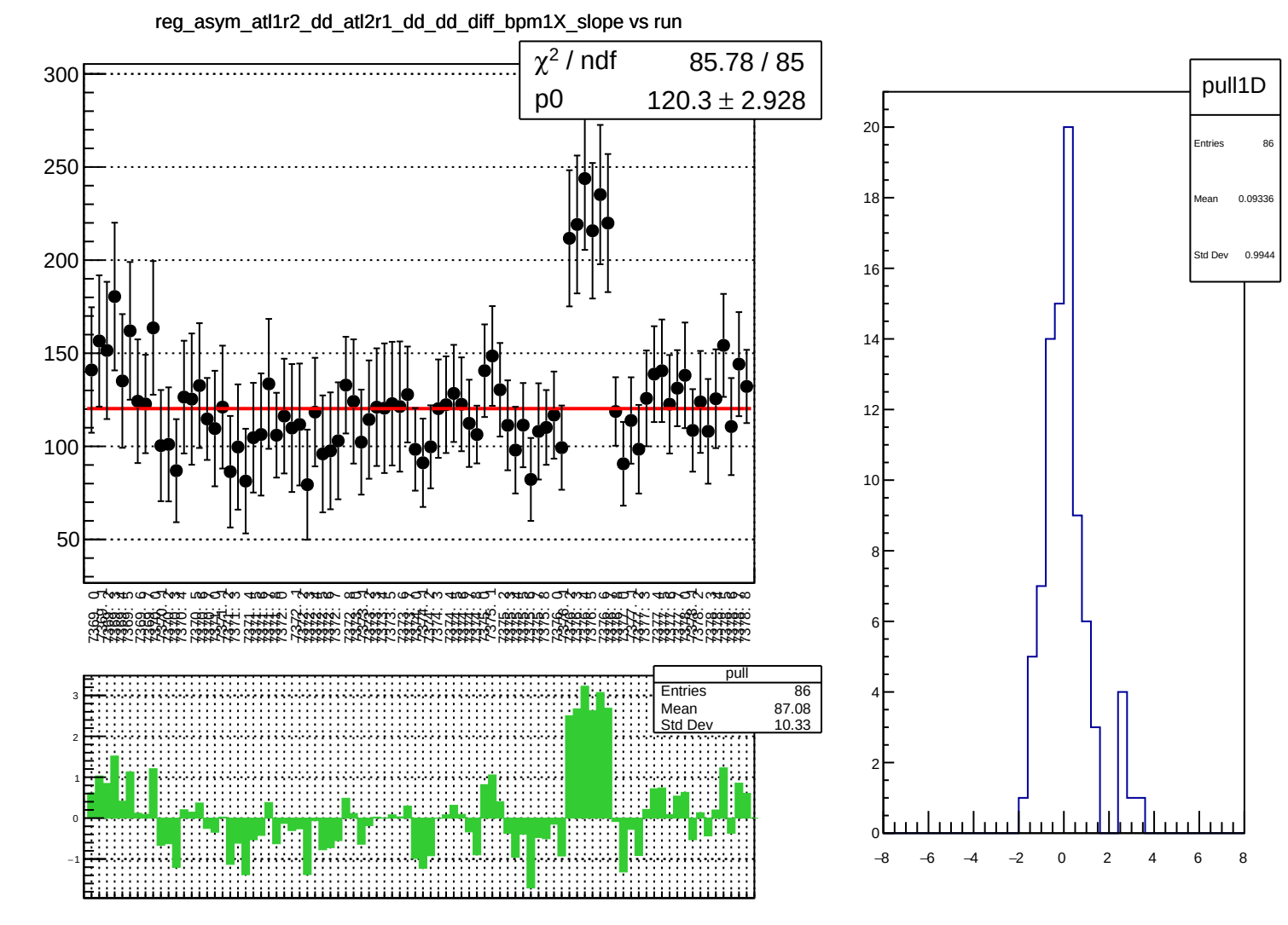

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 85.78 / 85
p0 120.3 ± 2.928
pull
Entries 86
Mean 87.08
Std Dev 10.33
pull1D
Entries 86
Mean 0.09336
Std Dev 0.9944

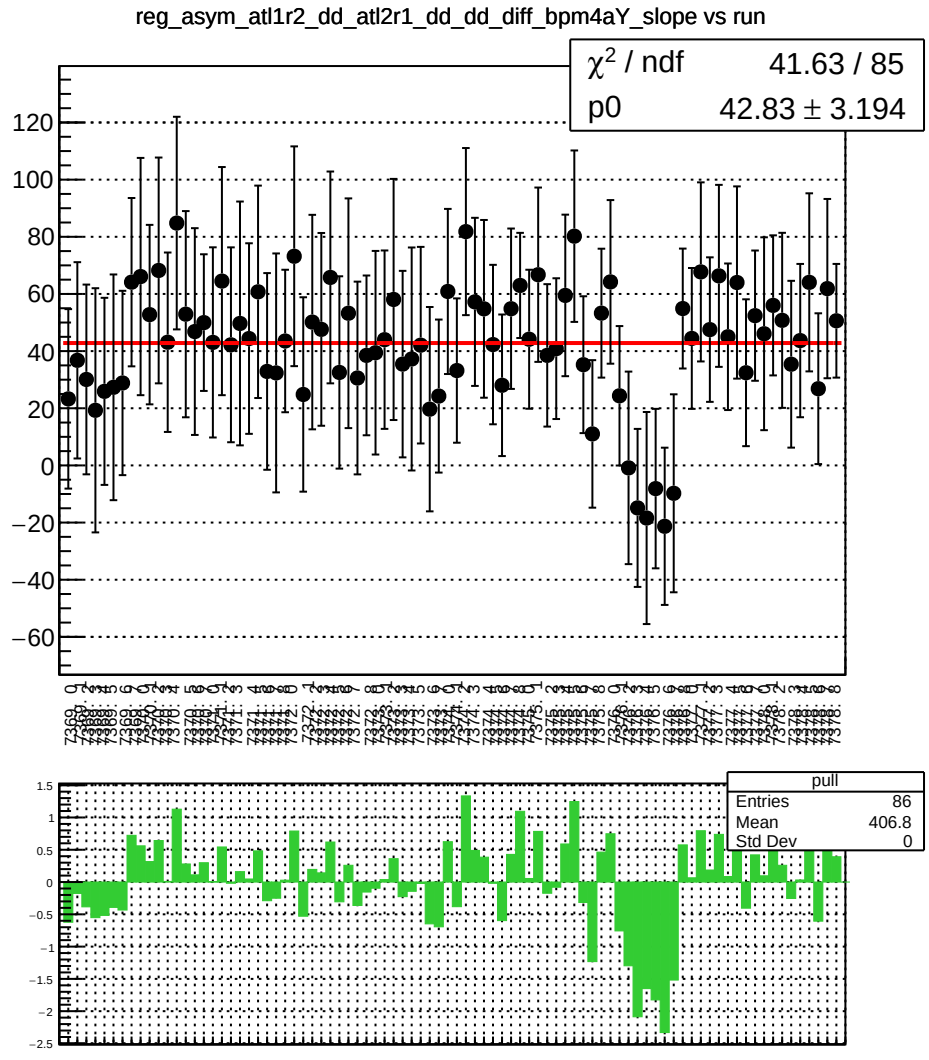

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.63 / 85
p0 42.83 ± 3.194
pull
Entries 86
Mean 406.8
Std Dev 0
pull1D
Entries 86
Mean −0.002987
Std Dev 0.6957

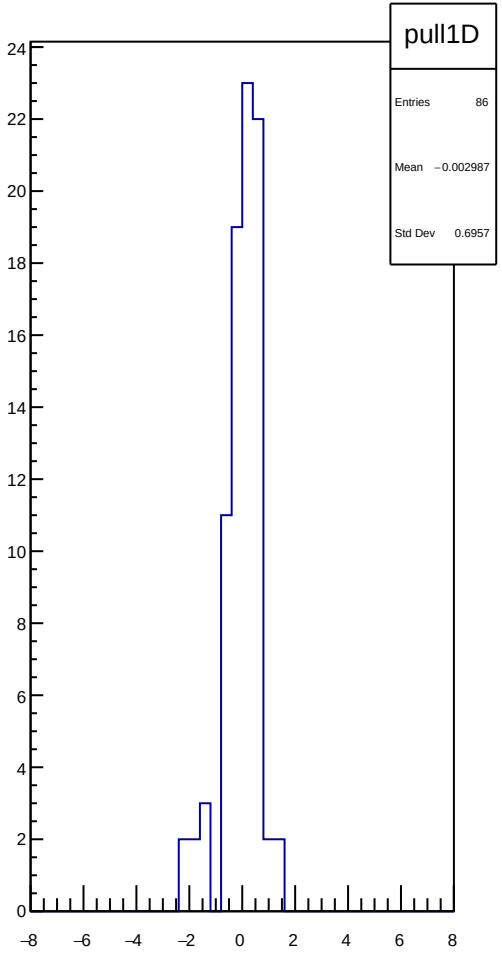

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.75 / 85
p0 −141 ± 3.037
pull
Entries 86
Mean 91.63
Std Dev 0
pull1D
Entries 86
Mean −0.09096
Std Dev 1

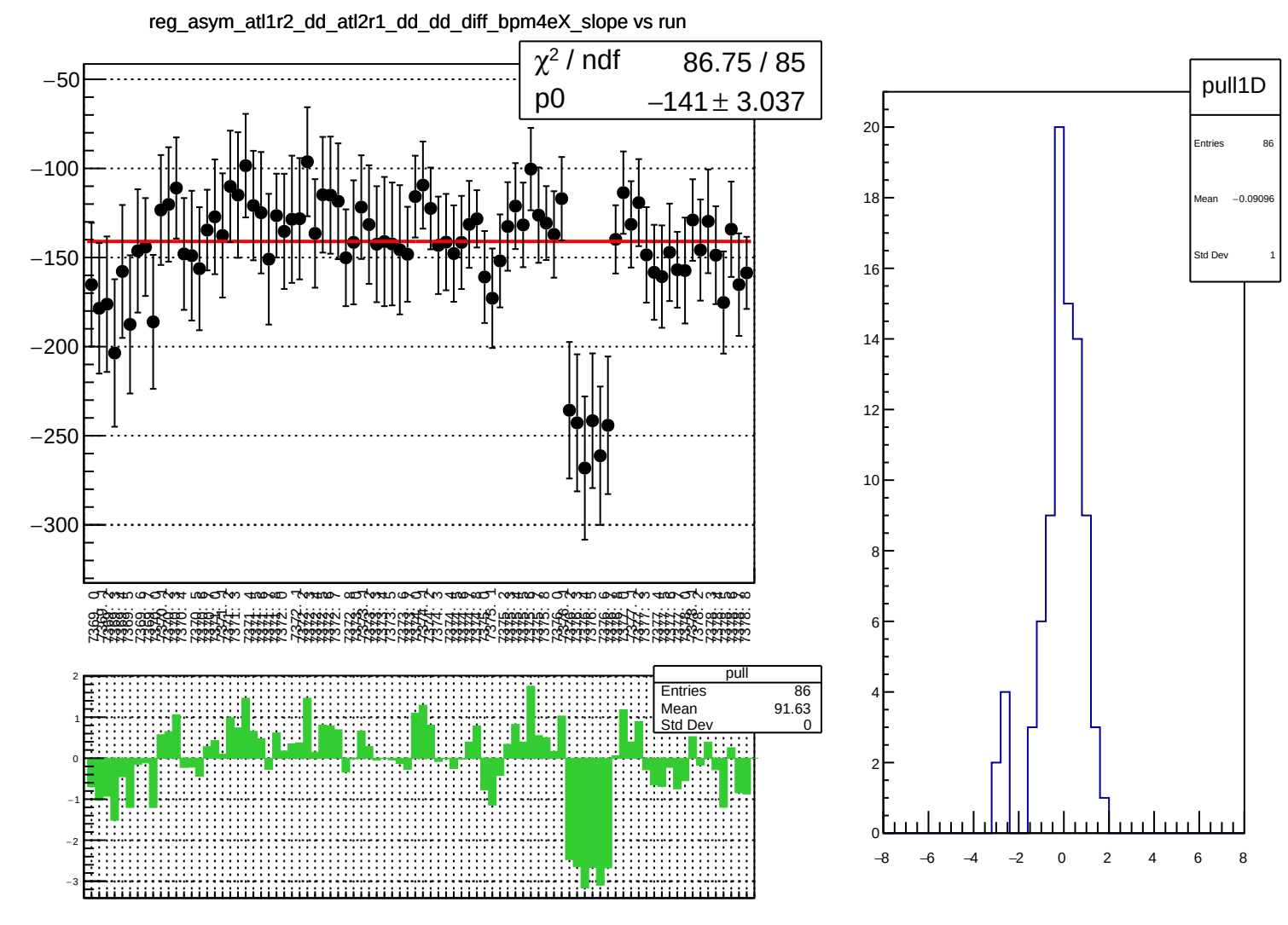

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.21 / 85
p0 −111.9 ± 3.387
pull
Entries 86
Mean 119.4
Std Dev 0
pull1D
Entries 86
Mean 0.01386
Std Dev 0.6664

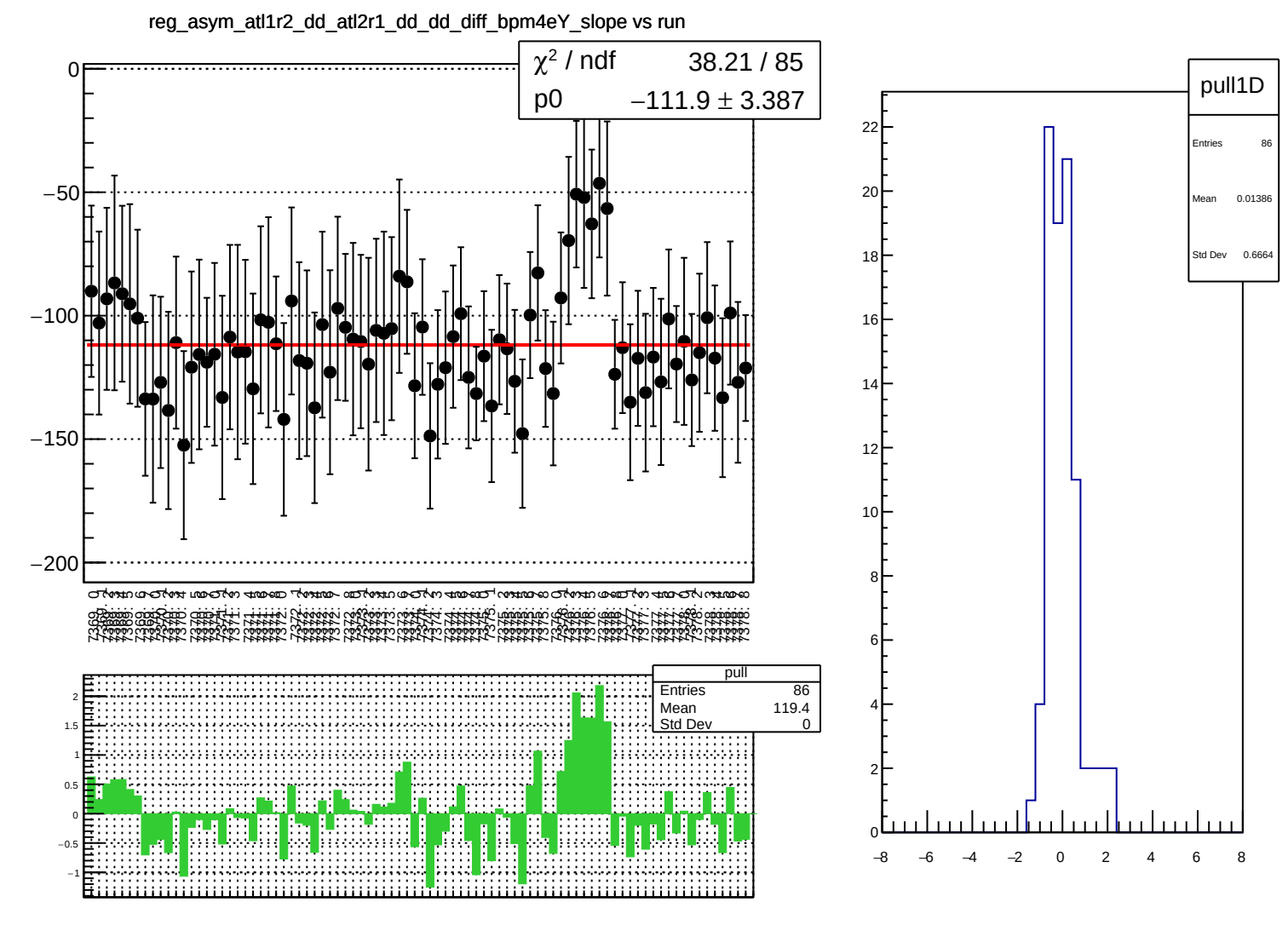

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 29.57 / 85
p0 115 ± 0.1536
pull
Entries 86
Mean −141.8
Std Dev 0
pull1D
Entries 86
Mean −0.04981
Std Dev 0.5842

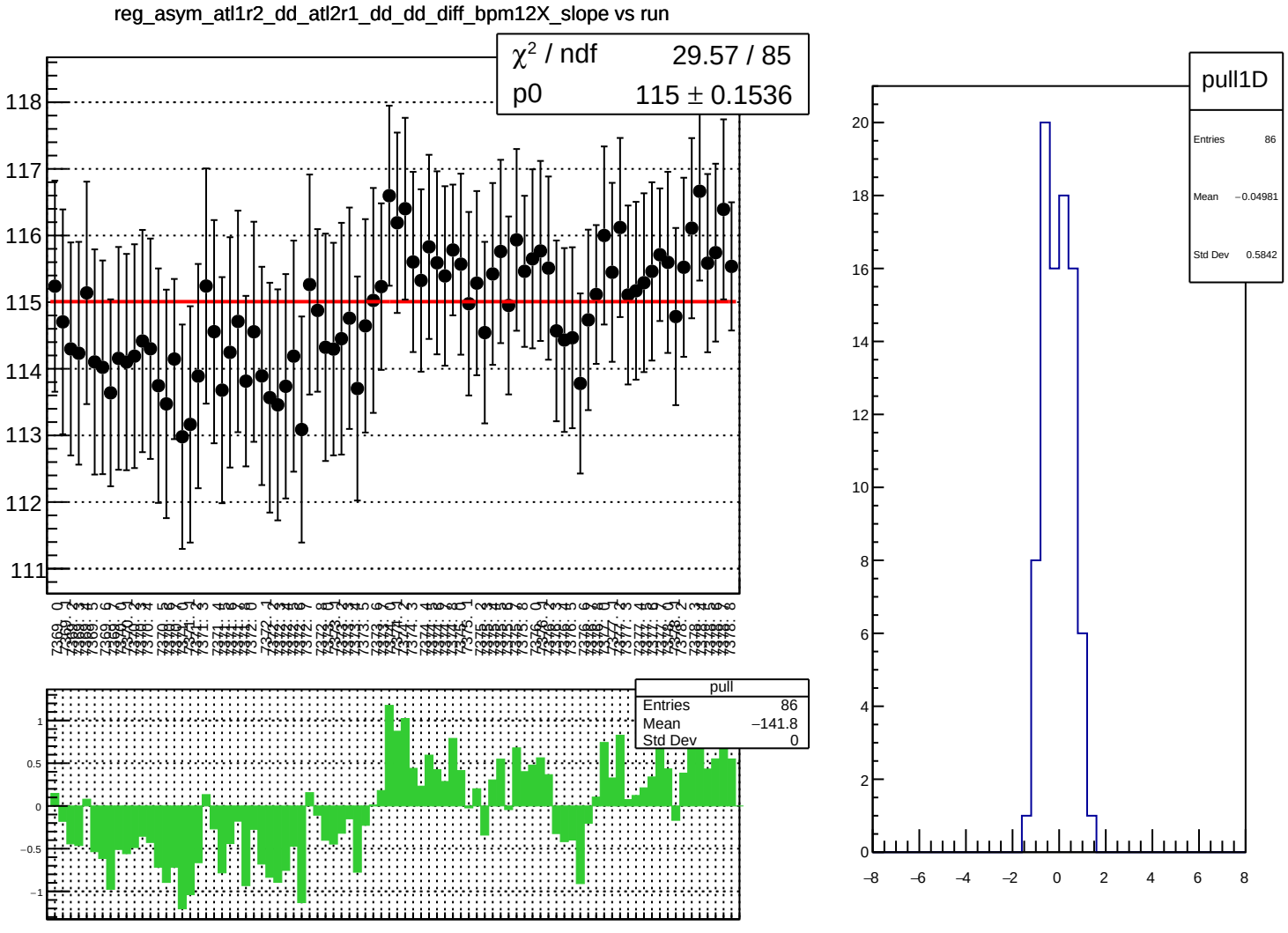

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 85.78 / 85
p0 120.3 ± 2.928
pull
Entries 86
Mean 87.08
Std Dev 10.33
pull1D
Entries 86
Mean 0.09336
Std Dev 0.9944

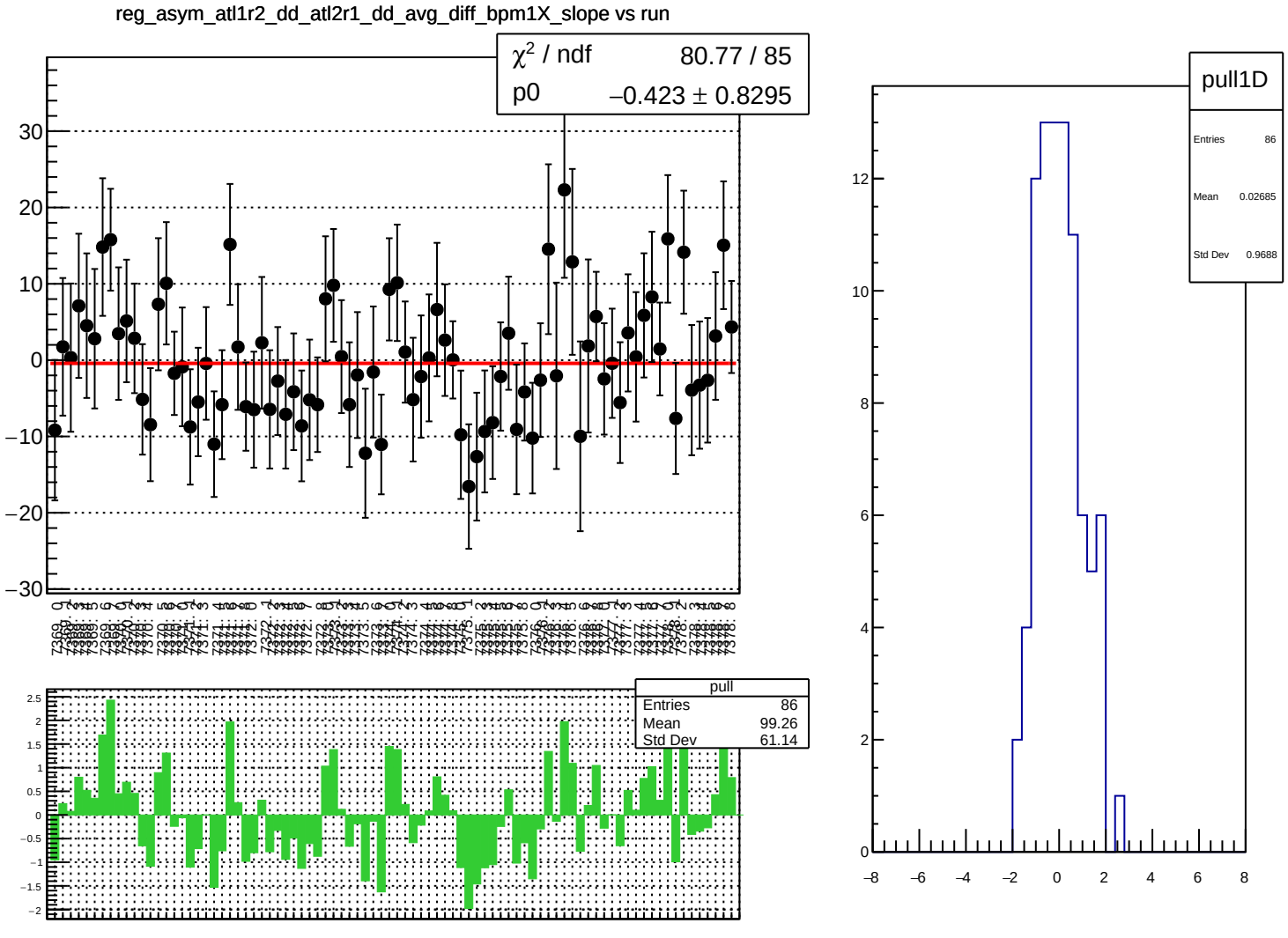

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 41.63 / 85
p0 42.83 ± 3.194
pull
Entries 86
Mean 406.8
Std Dev 0

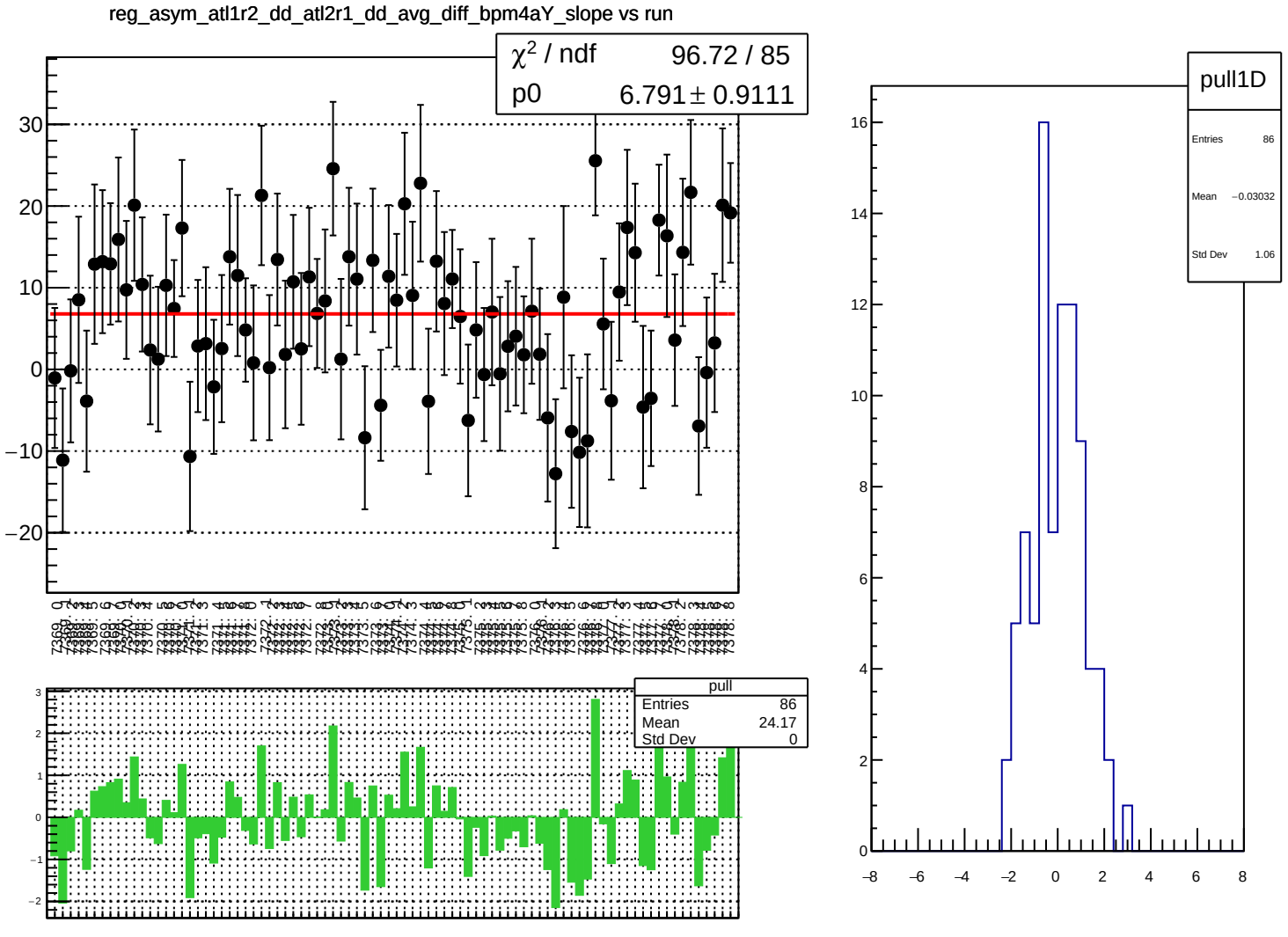

pull1D
Entries 86
Mean −0.002987
Std Dev 0.6957

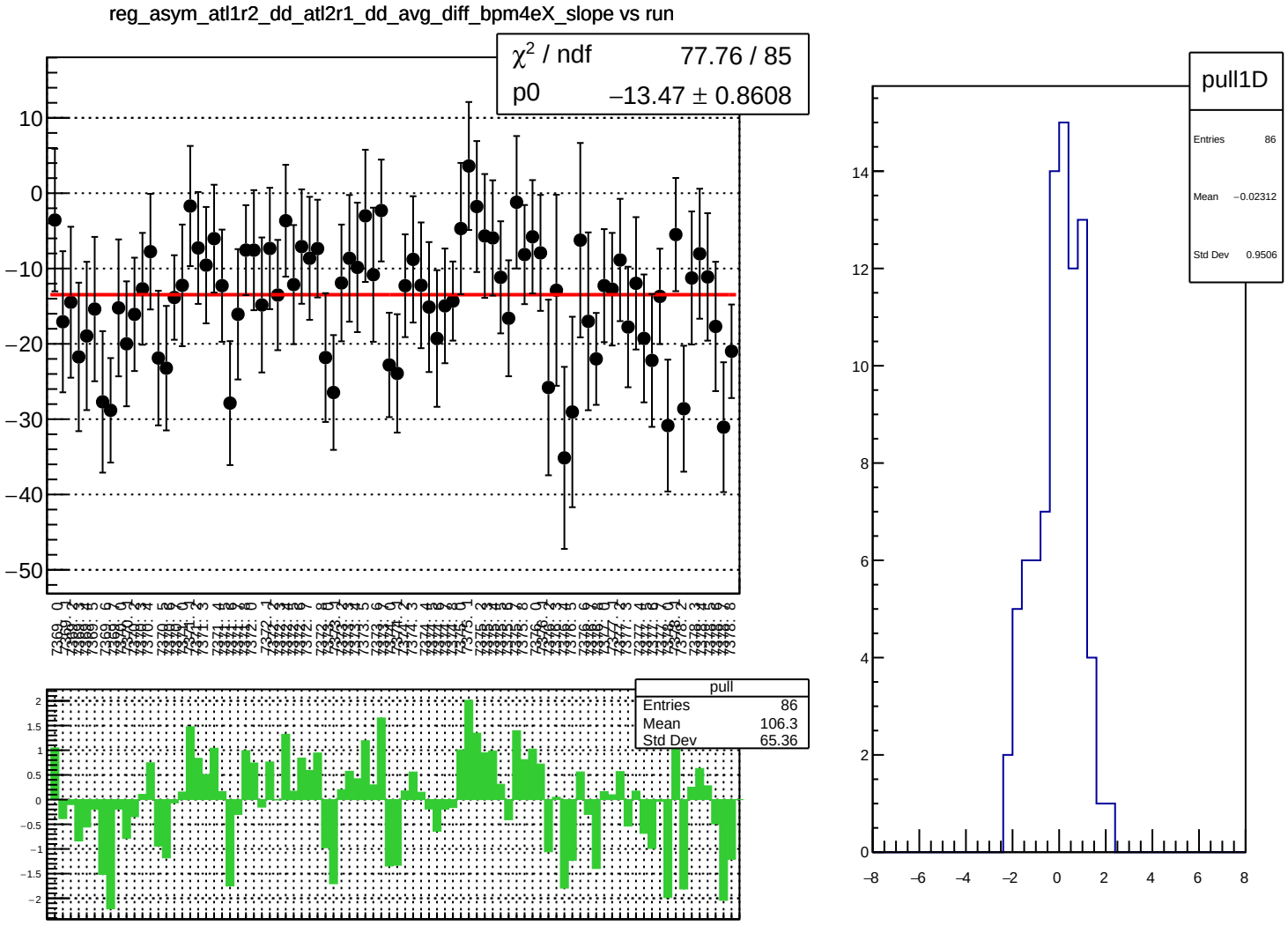

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.75 / 85
p0 −141 ± 3.037
pull
Entries 86
Mean 91.63
Std Dev 0
pull1D
Entries 86
Mean −0.09096
Std Dev 1

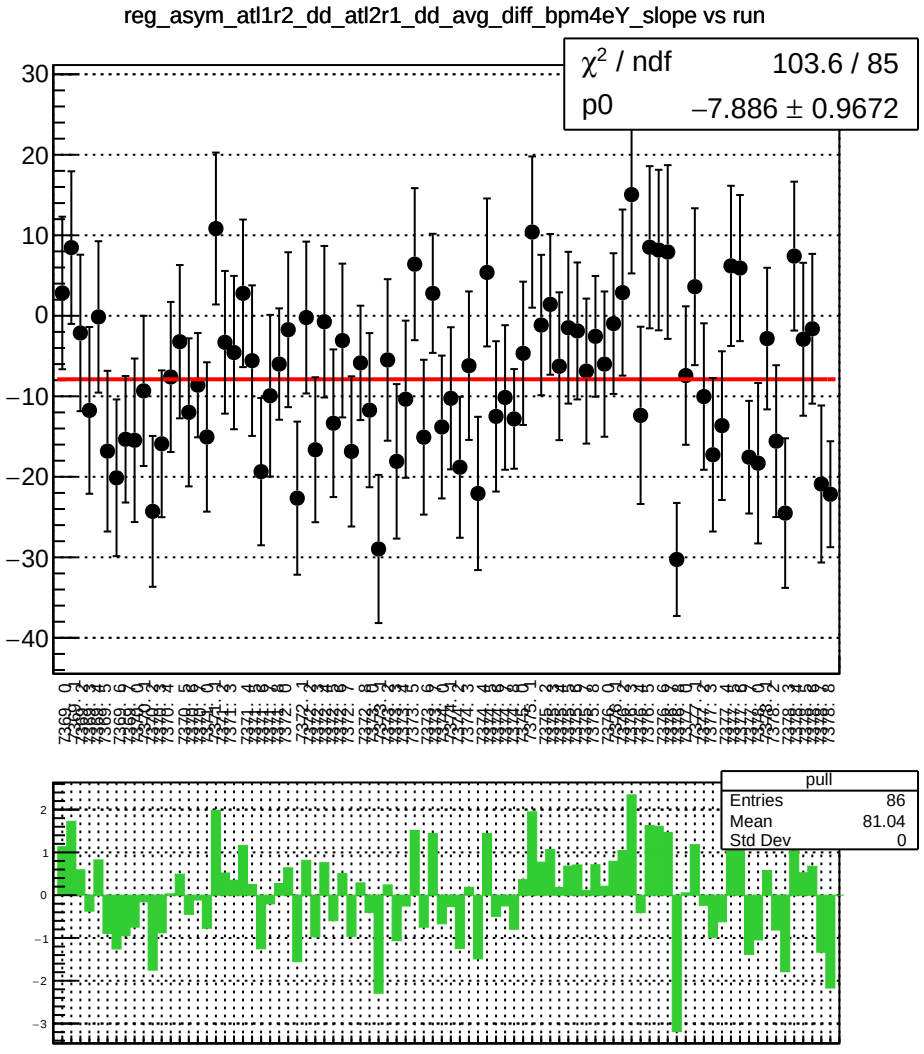

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.21 / 85
p0 −111.9 ± 3.387
pull
Entries 86
Mean 119.4
Std Dev 0
pull1D
Entries 86
Mean 0.01386
Std Dev 0.6664

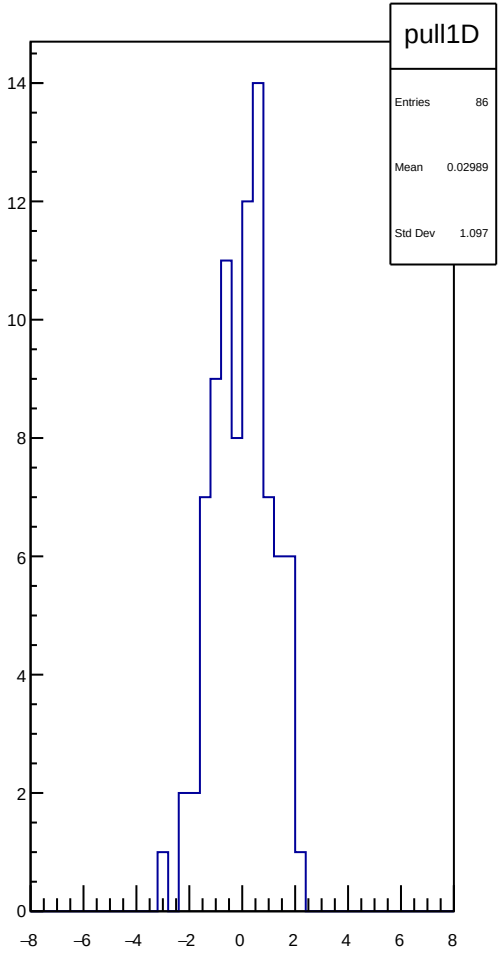

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 29.57 / 85
p0 115 ± 0.1536
pull
Entries 86
Mean −141.8
Std Dev 0
pull1D
Entries 86
Mean −0.04981
Std Dev 0.5842

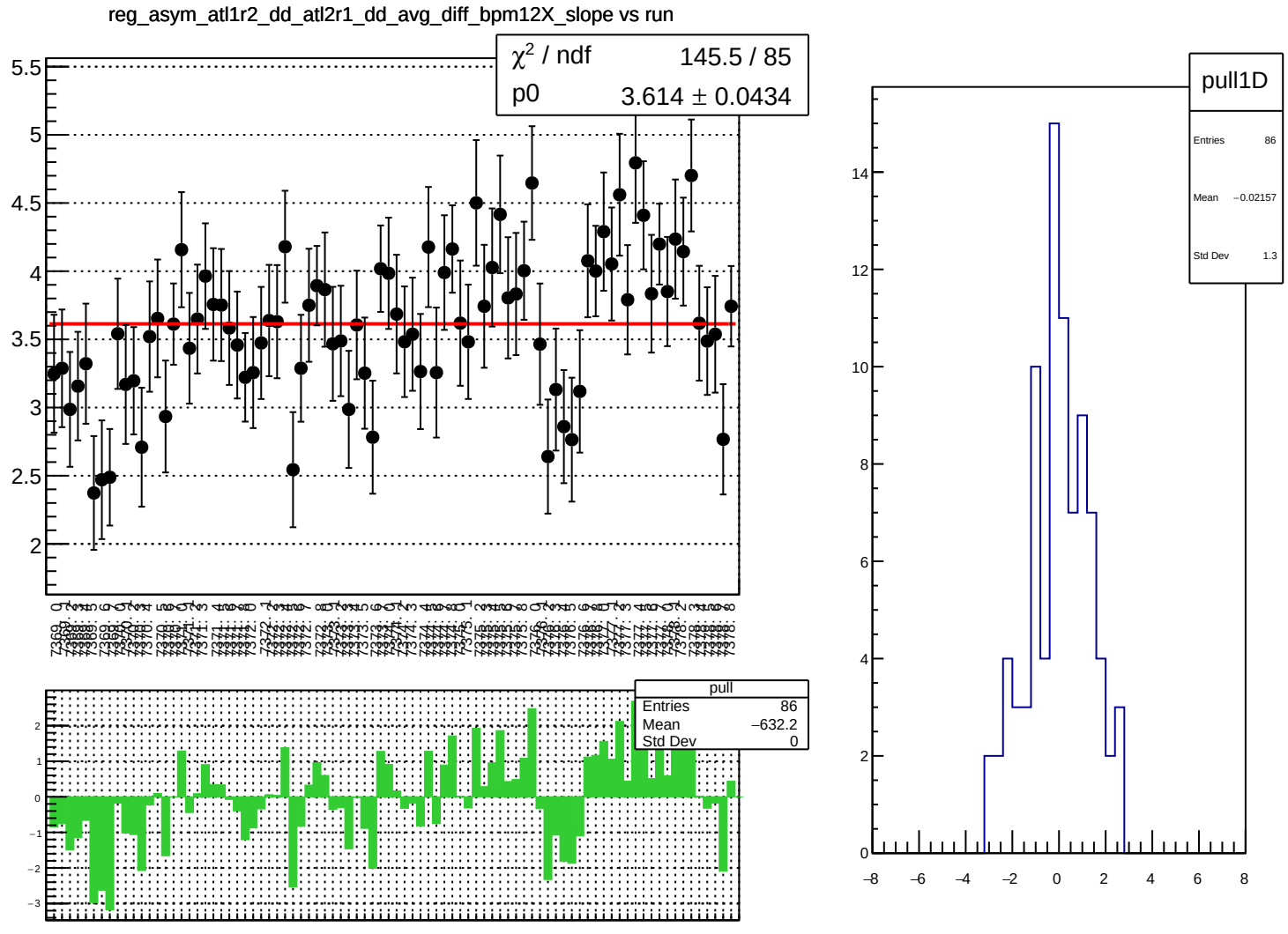

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 80.77 / 85
p0 −0.423 ± 0.8295
pull
Entries 86
Mean 99.26
Std Dev 61.14
pull1D
Entries 86
Mean 0.02685
Std Dev 0.9688

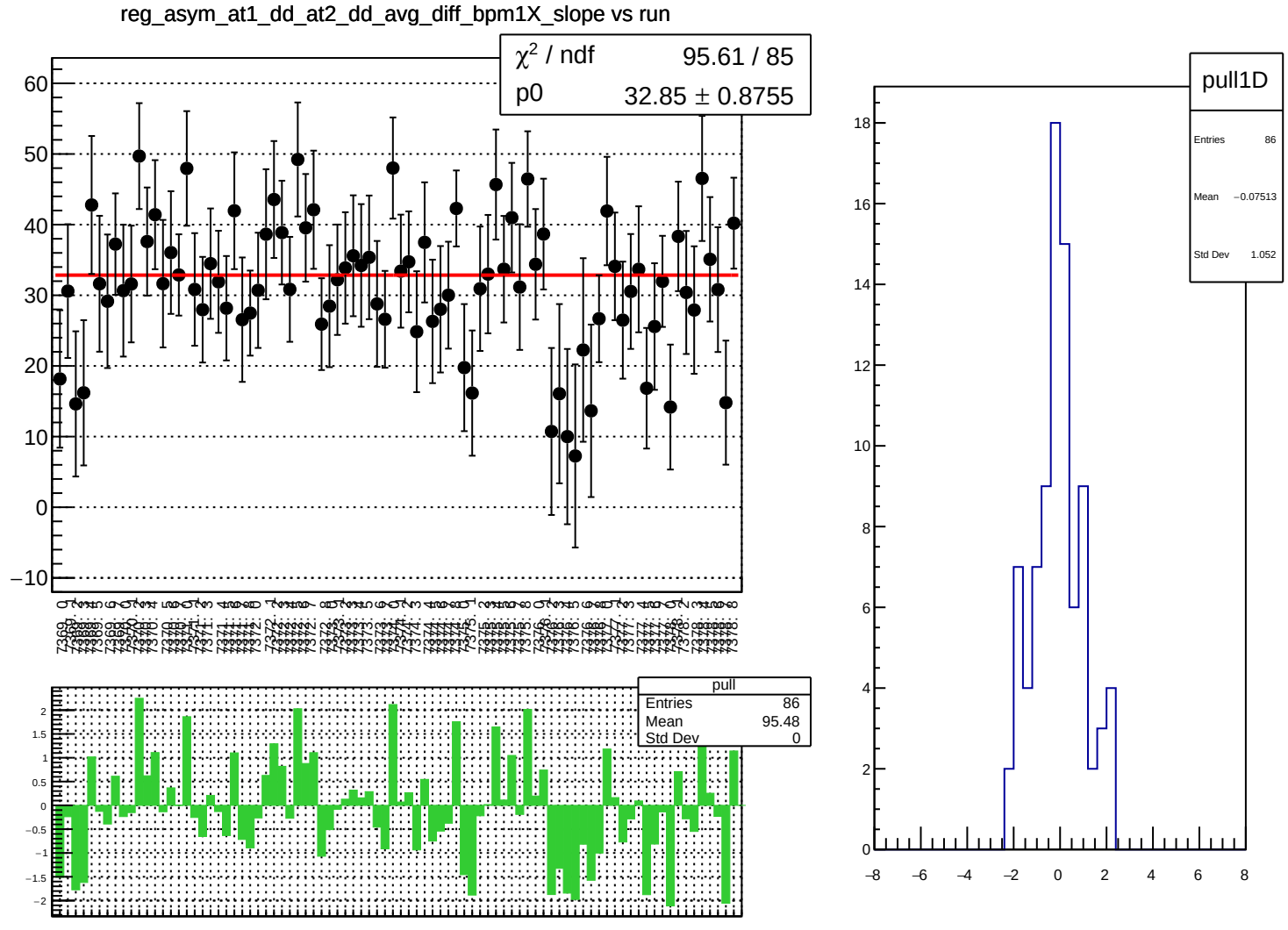

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 96.72 / 85
p0 6.791 ± 0.9111
pull
Entries 86
Mean 24.17
Std Dev 0
pull1D
Entries 86
Mean −0.03032
Std Dev 1.06

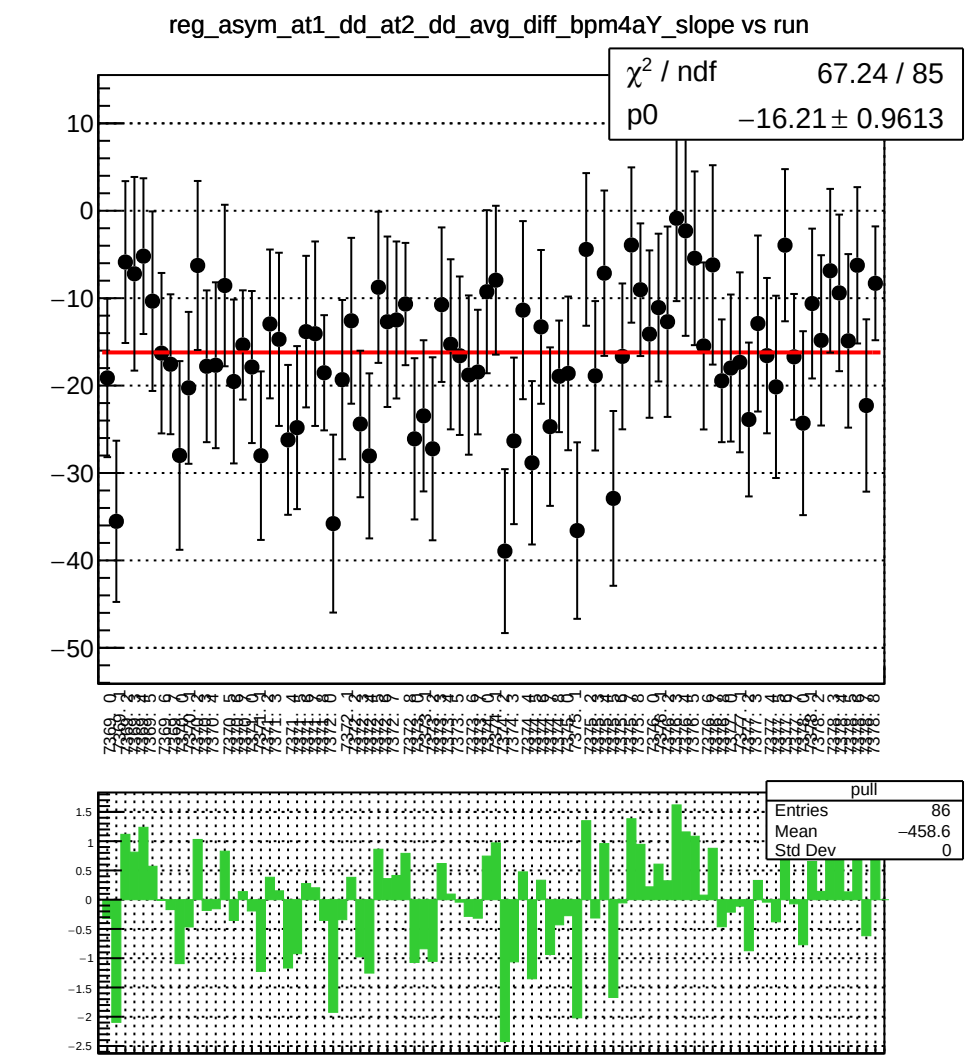

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.76 / 85
p0 −13.47 ± 0.8608
pull
Entries 86
Mean 106.3
Std Dev 65.36
pull1D
Entries 86
Mean −0.02312
Std Dev 0.9506

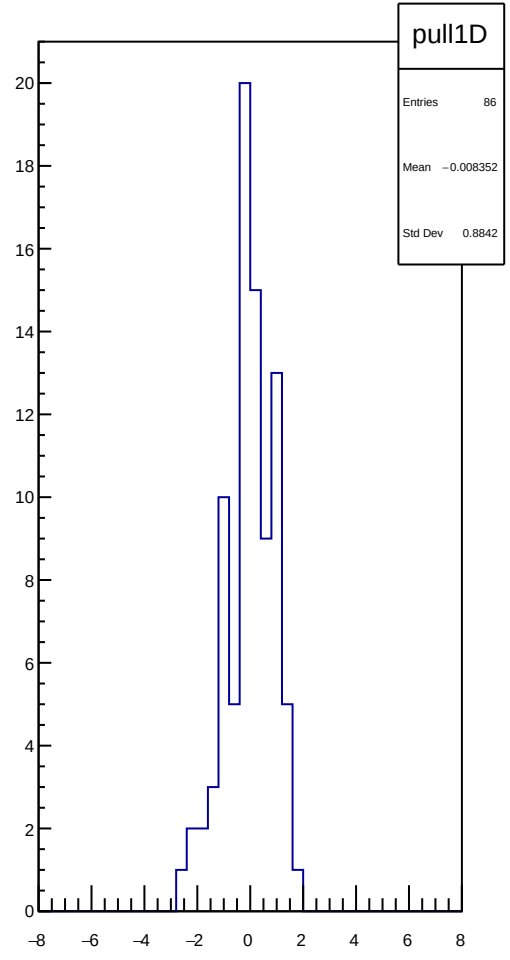

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 103.6 / 85
p0 −7.886 ± 0.9672
pull
Entries 86
Mean 81.04
Std Dev 0

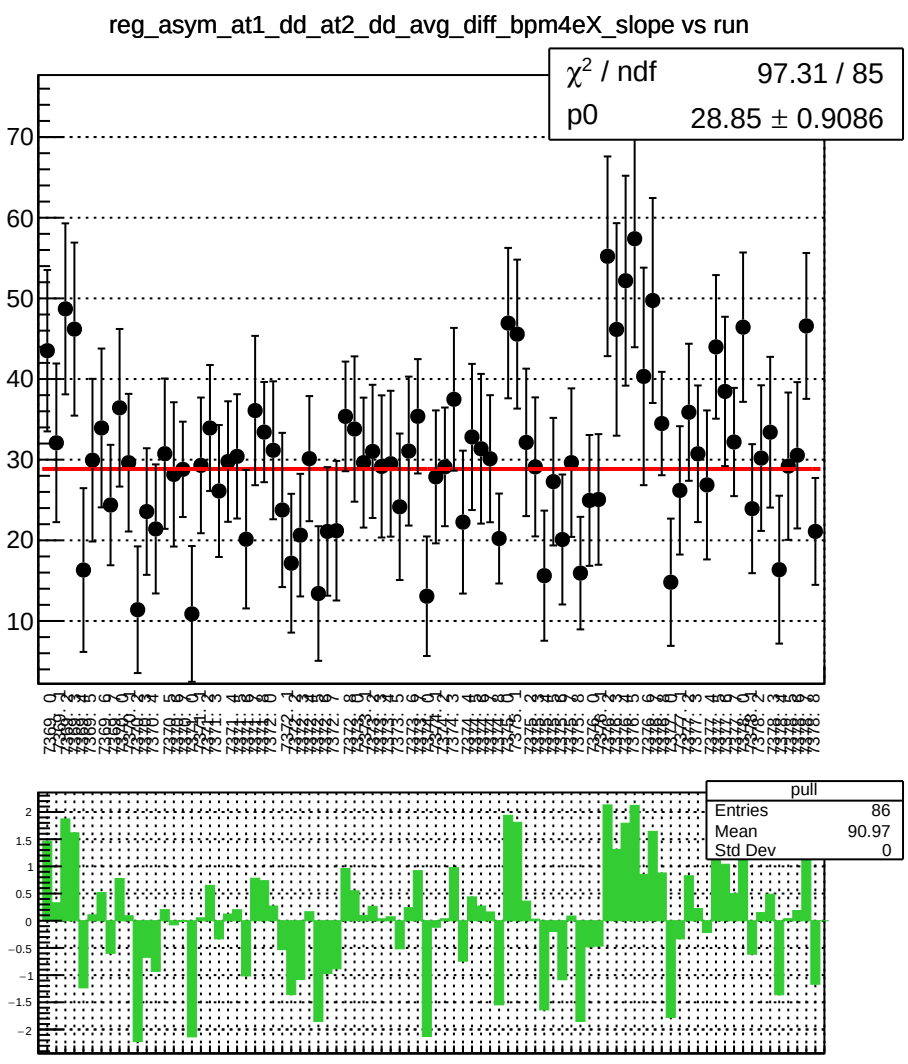

pull1D
Entries 86
Mean 0.02989
Std Dev 1.097

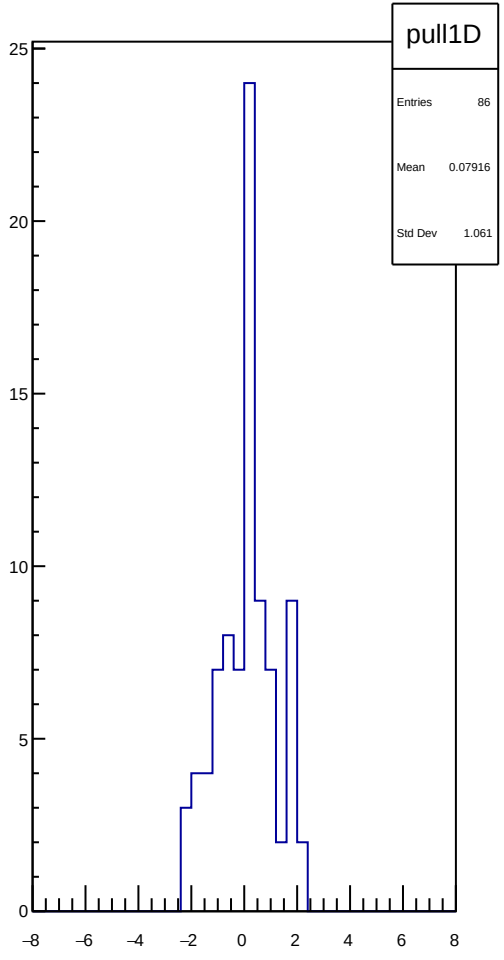

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 145.5 / 85
p0 3.614 ± 0.0434
pull
Entries 86
Mean −632.2
Std Dev 0
pull1D
Entries 86
Mean −0.02157
Std Dev 1.3

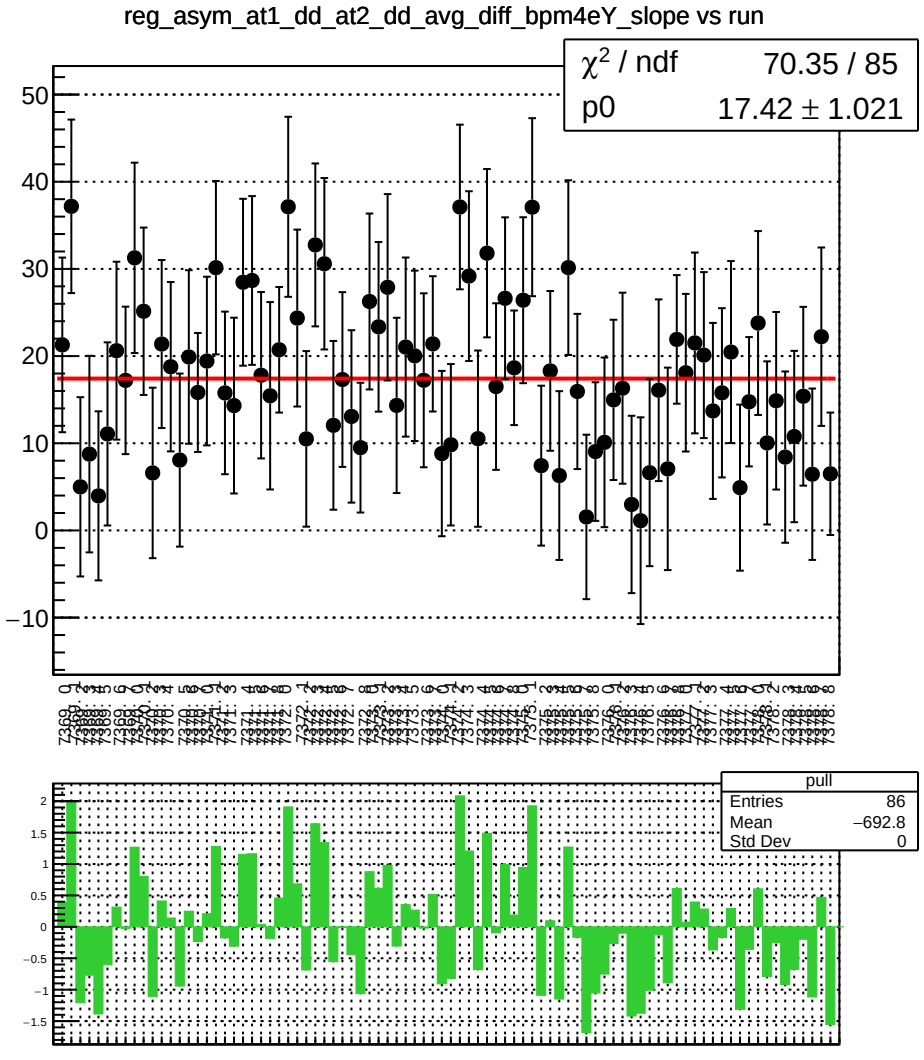

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 95.61 / 85
p0 32.85 ± 0.8755
pull
Entries 86
Mean 95.48
Std Dev 0
pull1D
Entries 86
Mean −0.07513
Std Dev 1.052

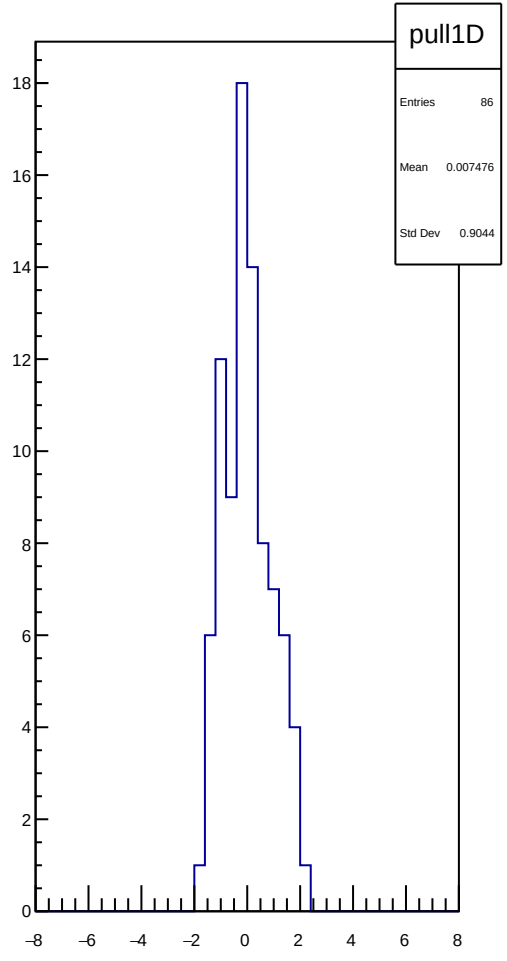

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.24 / 85
p0 −16.21 ± 0.9613
pull
Entries 86
Mean −458.6
Std Dev 0

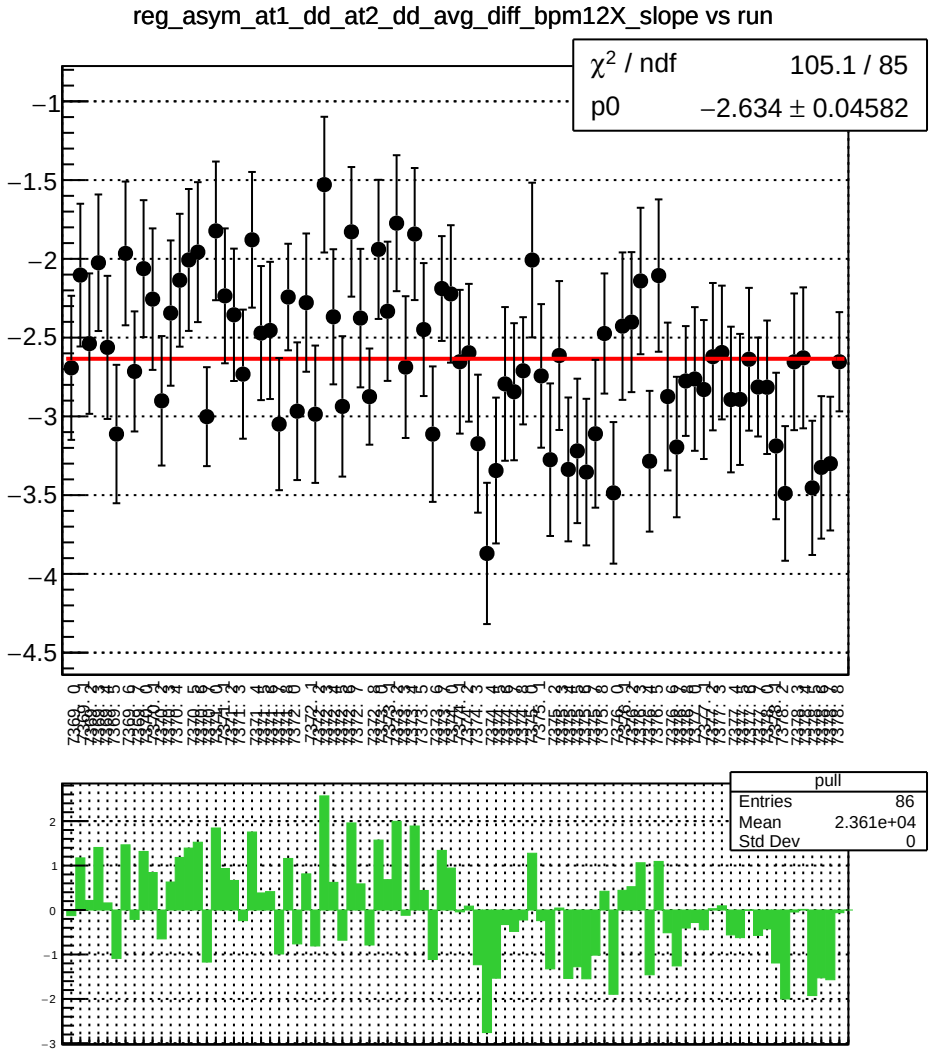

pull1D
Entries 86
Mean −0.008352
Std Dev 0.8842

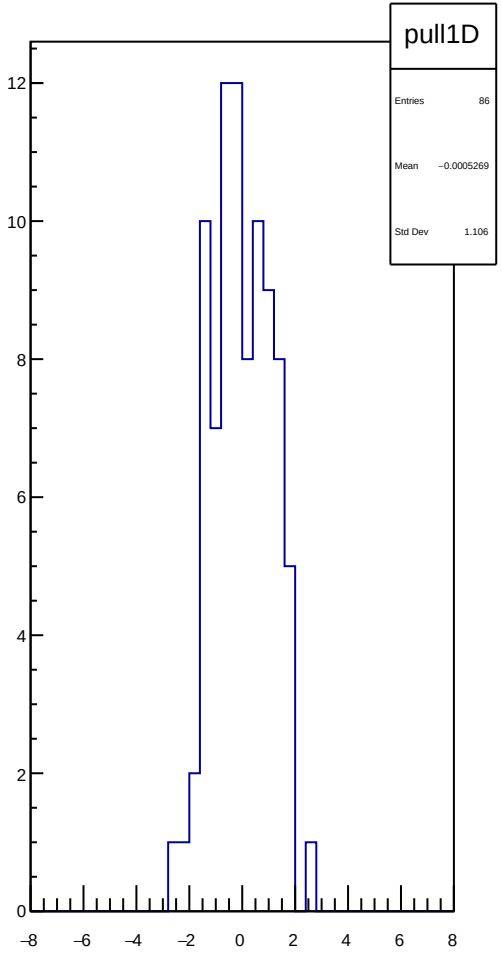

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 97.31 / 85
p0 28.85 ± 0.9086
pull
Entries 86
Mean 90.97
Std Dev 0

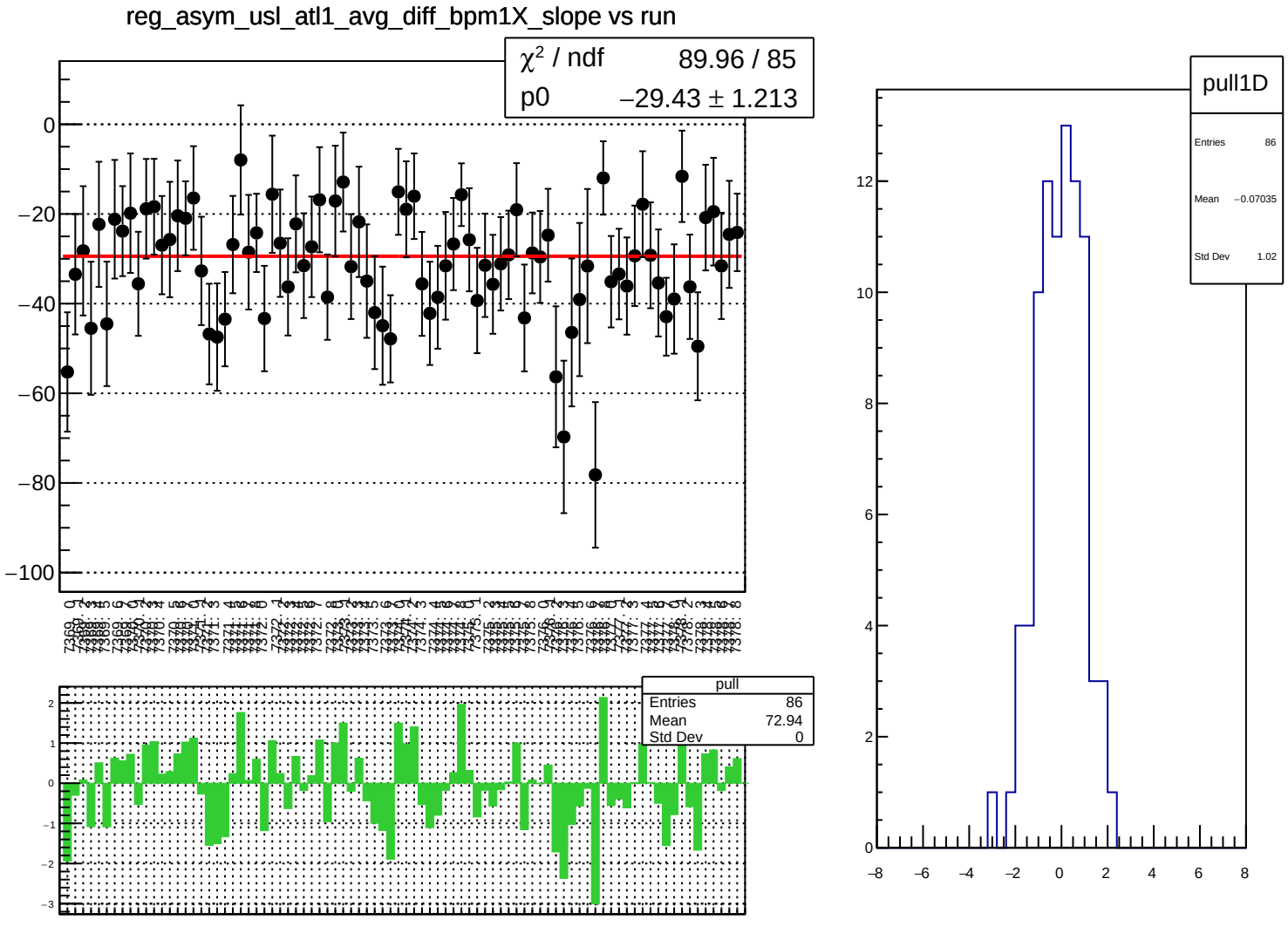

pull1D
Entries 86
Mean 0.07916
Std Dev 1.061

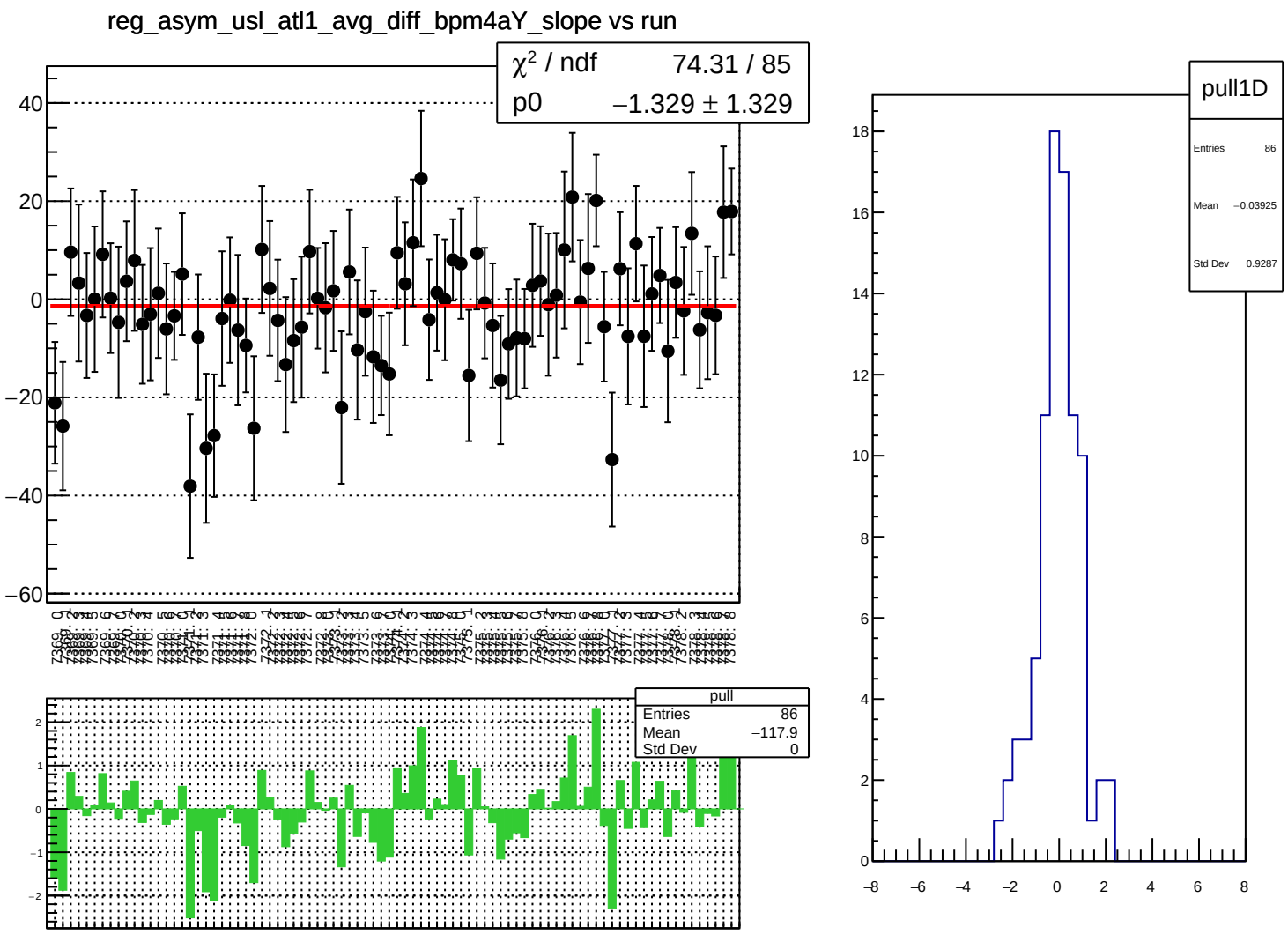

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 70.35 / 85
p0 17.42 ± 1.021
pull
Entries 86
Mean −692.8
Std Dev 0

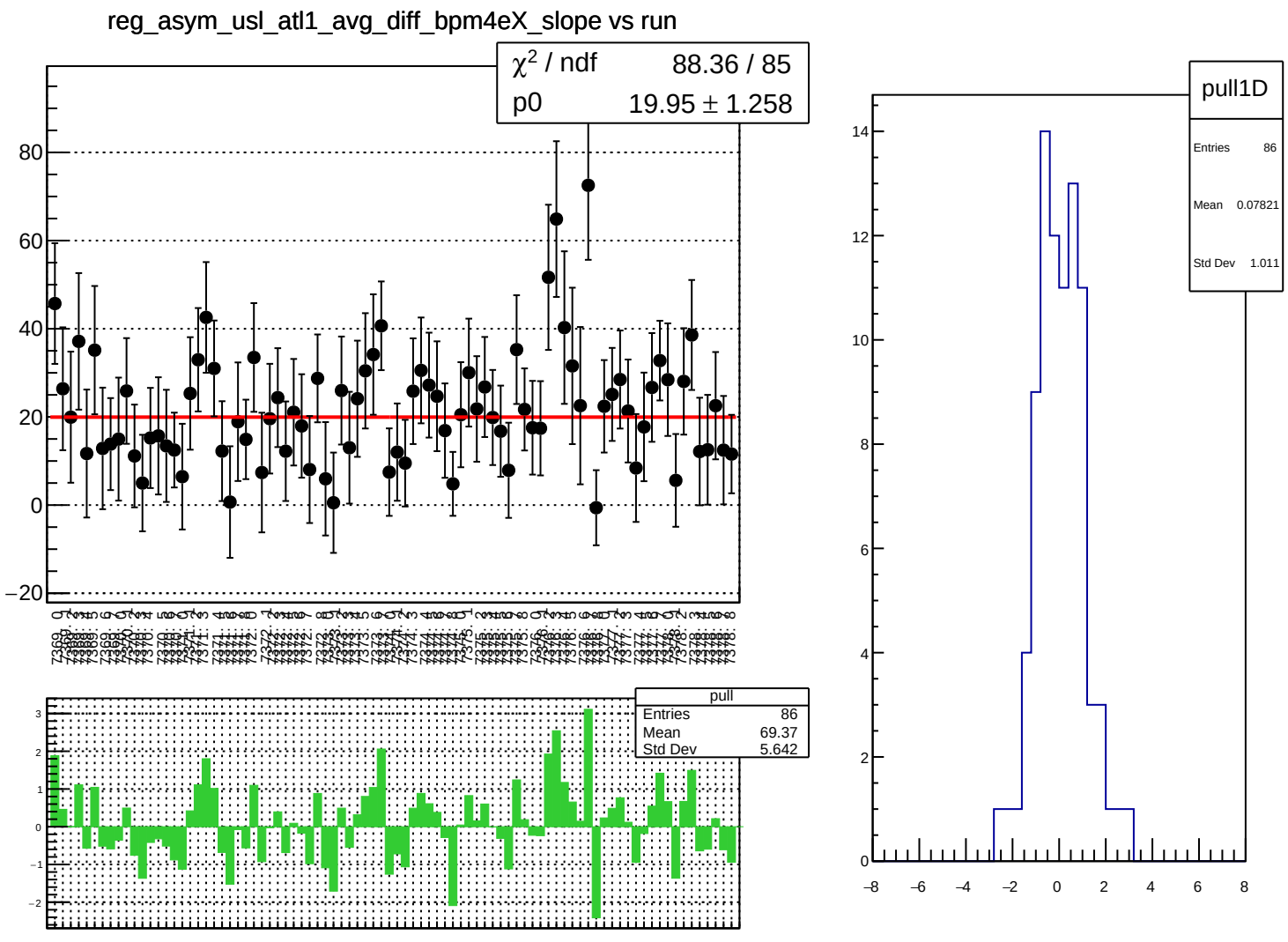

pull1D
Entries 86
Mean 0.007476
Std Dev 0.9044

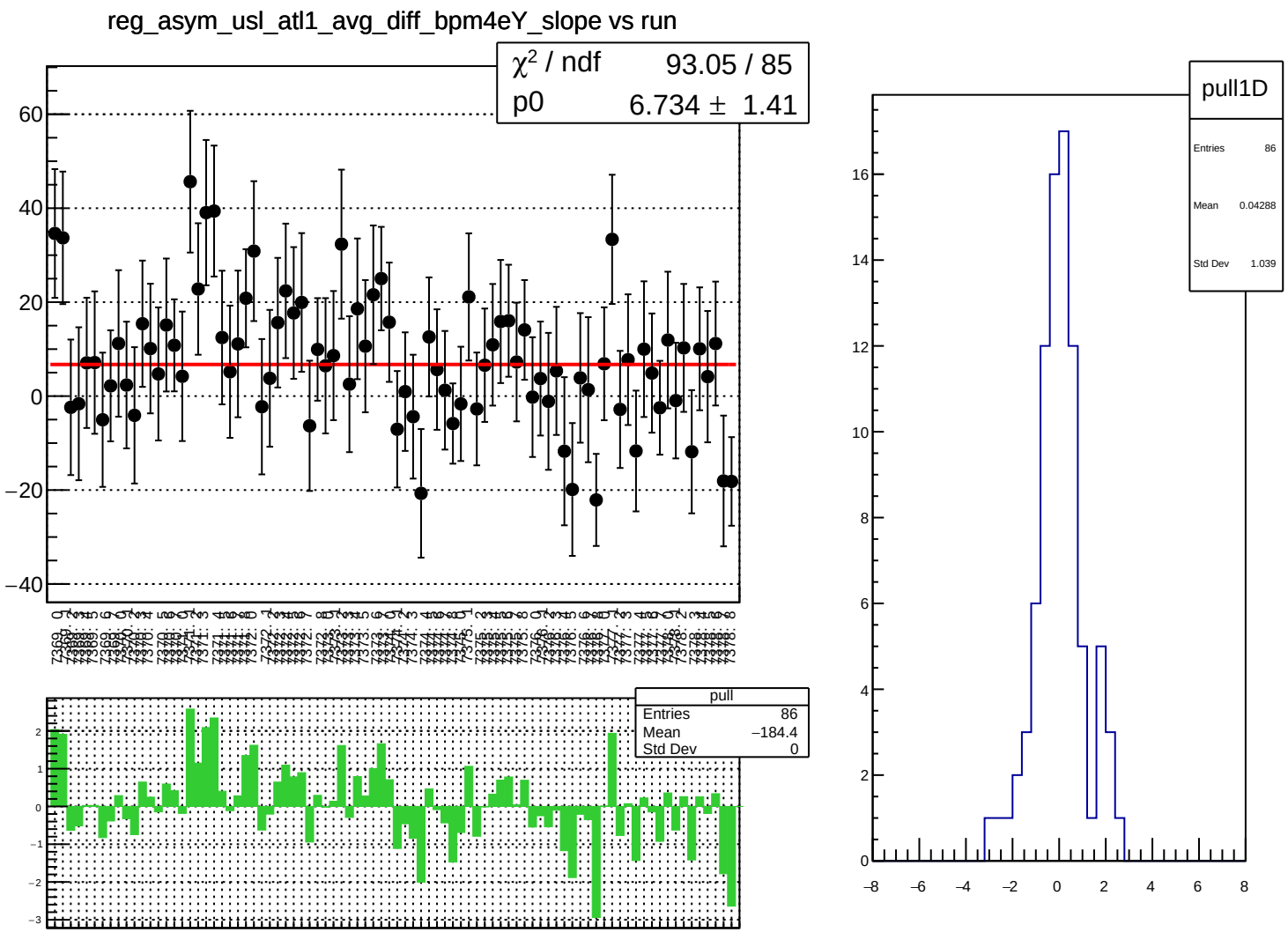

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 105.1 / 85
p0 −2.634 ± 0.04582
pull
Entries 86
Mean 2.361e+04
Std Dev 0

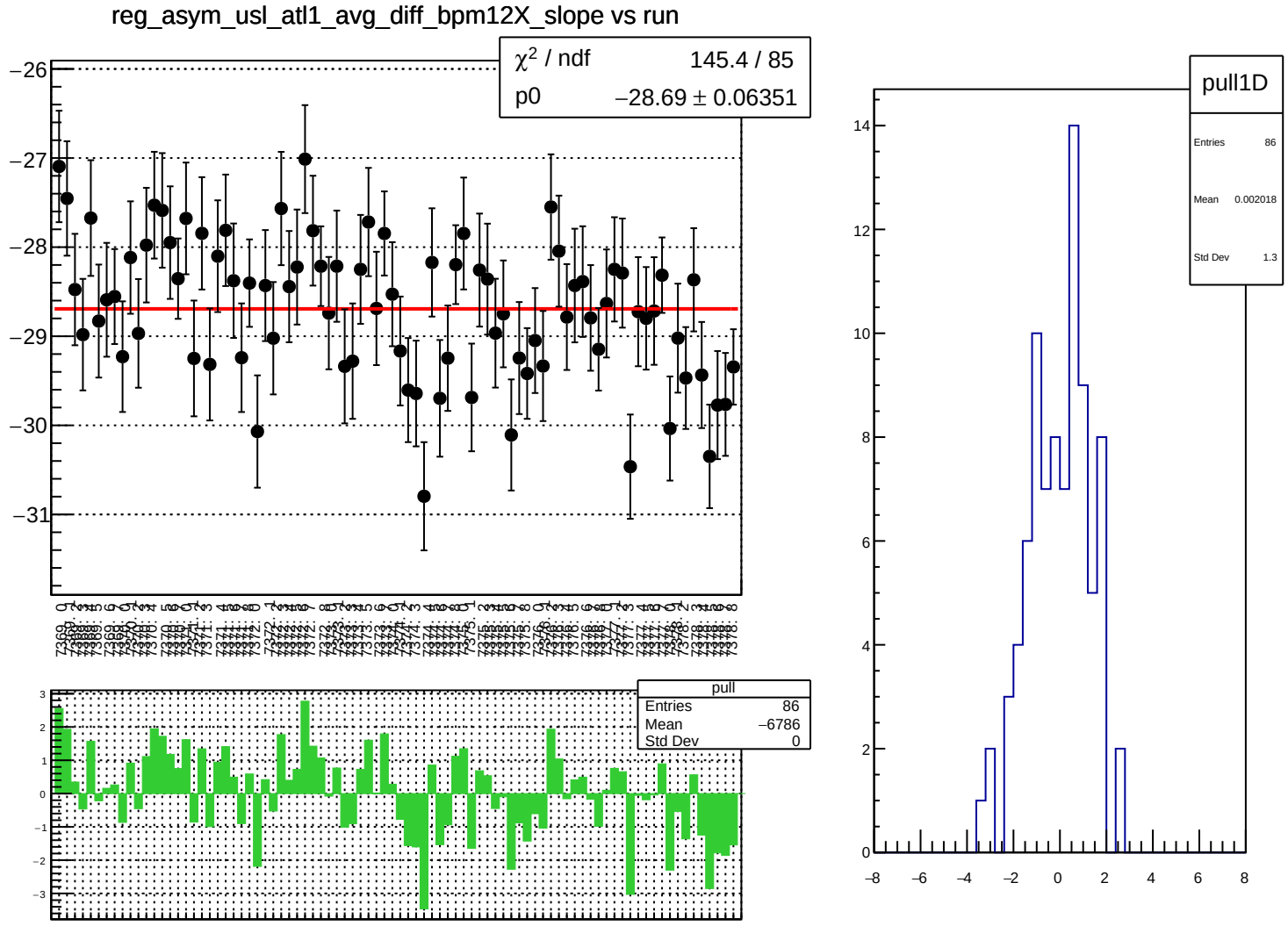

pull1D
Entries 86
Mean −0.0005269
Std Dev 1.106

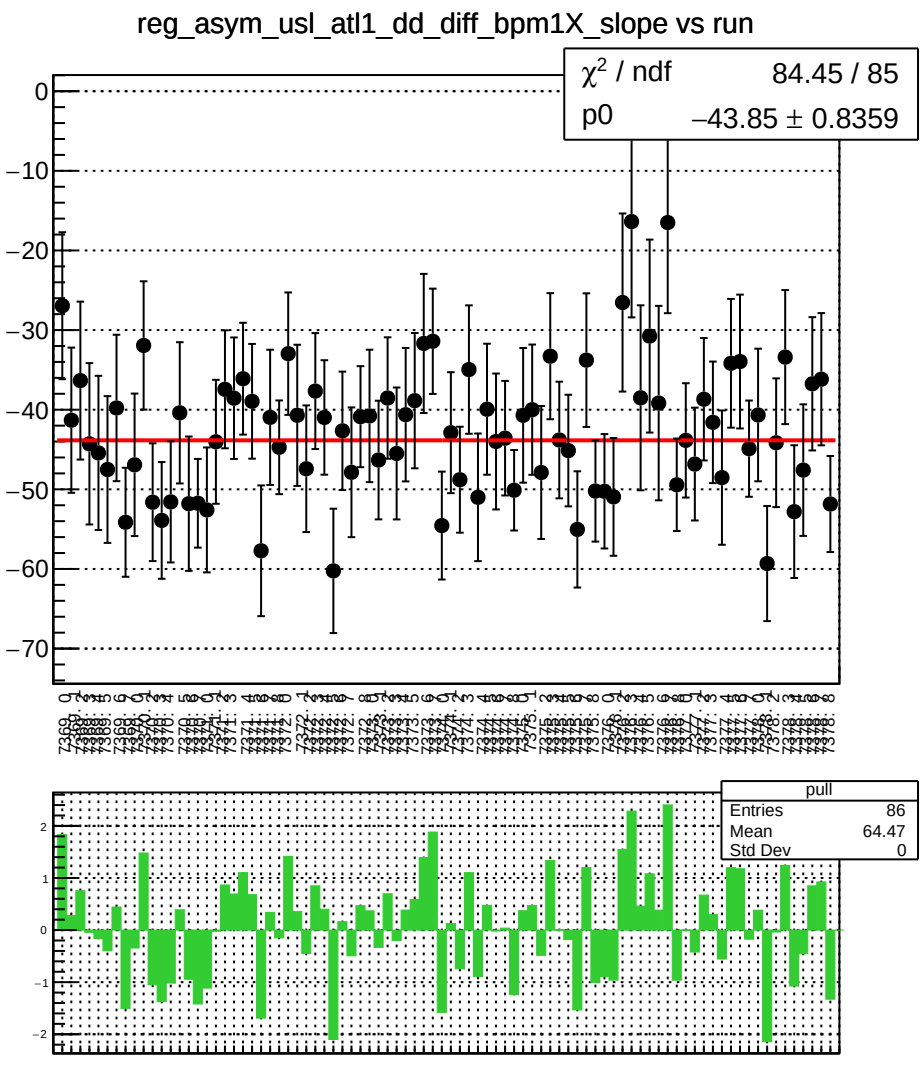

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 89.96 / 85
p0 −29.43 ± 1.213
pull
Entries 86
Mean 72.94
Std Dev 0
pull1D
Entries 86
Mean −0.07035
Std Dev 1.02

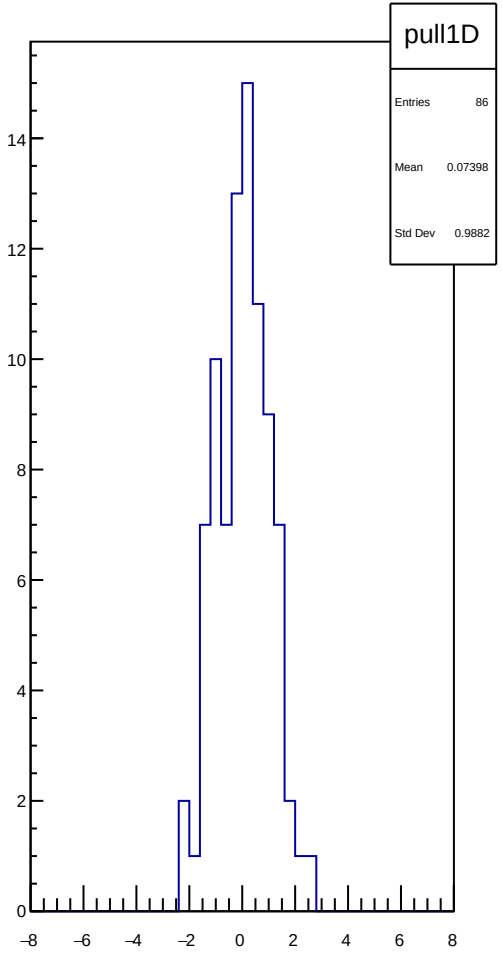

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.31 / 85
p0 −1.329 ± 1.329
pull
Entries 86
Mean −117.9
Std Dev 0
pull1D
Entries 86
Mean −0.03925
Std Dev 0.9287

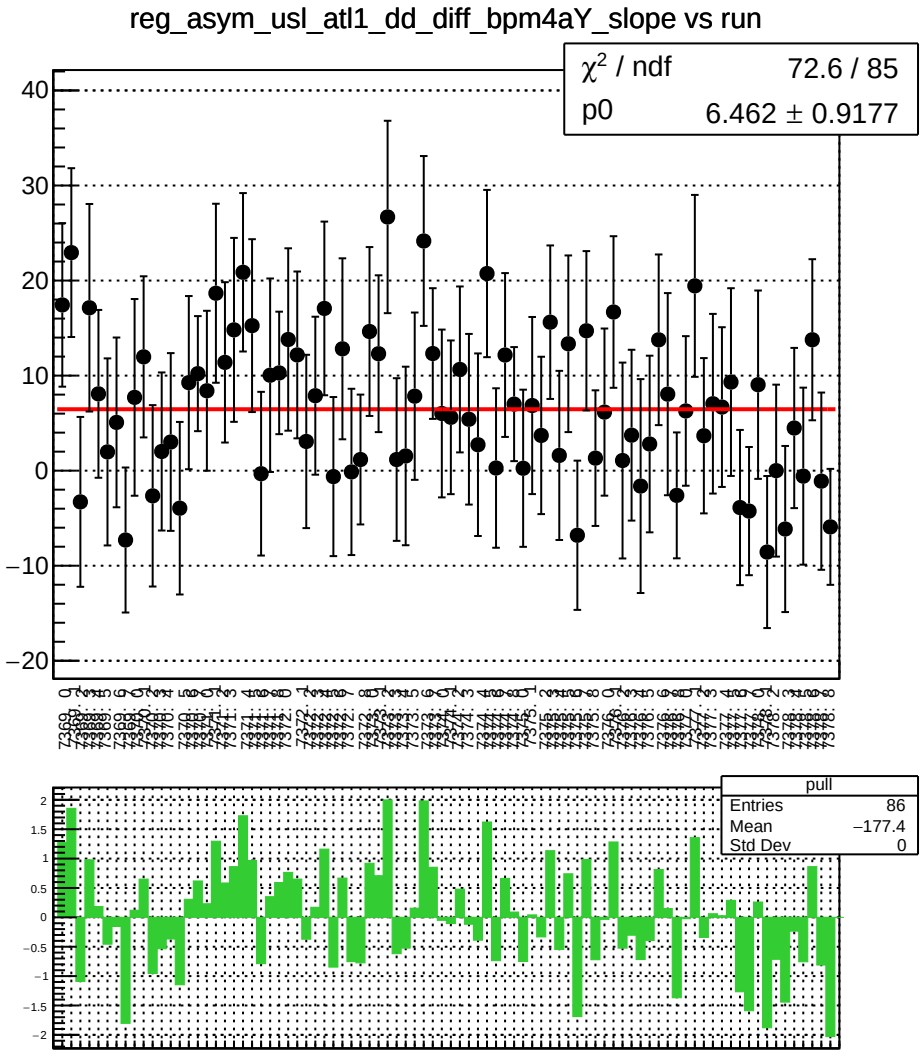

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.36 / 85
p0 19.95 ± 1.258
pull
Entries 86
Mean 69.37
Std Dev 5.642
pull1D
Entries 86
Mean 0.07821
Std Dev 1.011

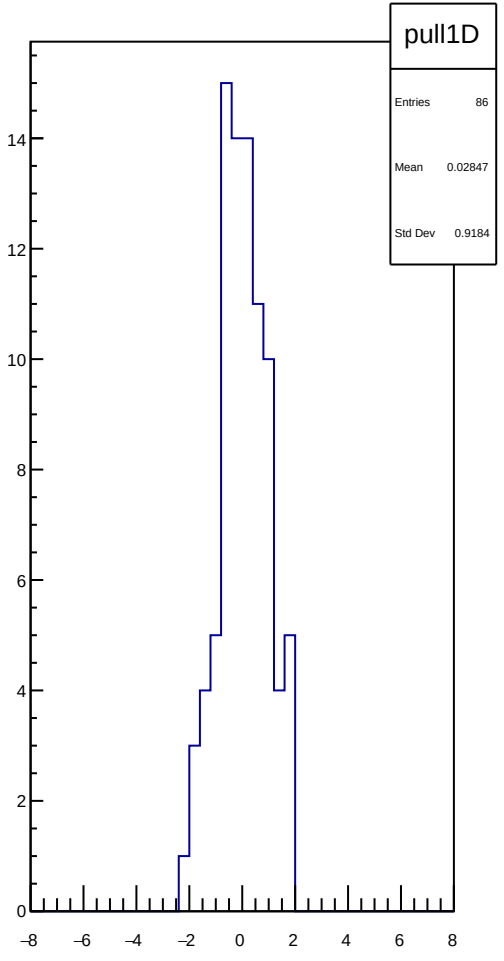

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 93.05 / 85
p0 6.734 ± 1.41
pull
Entries 86
Mean −184.4
Std Dev 0
pull1D
Entries 86
Mean 0.04288
Std Dev 1.039

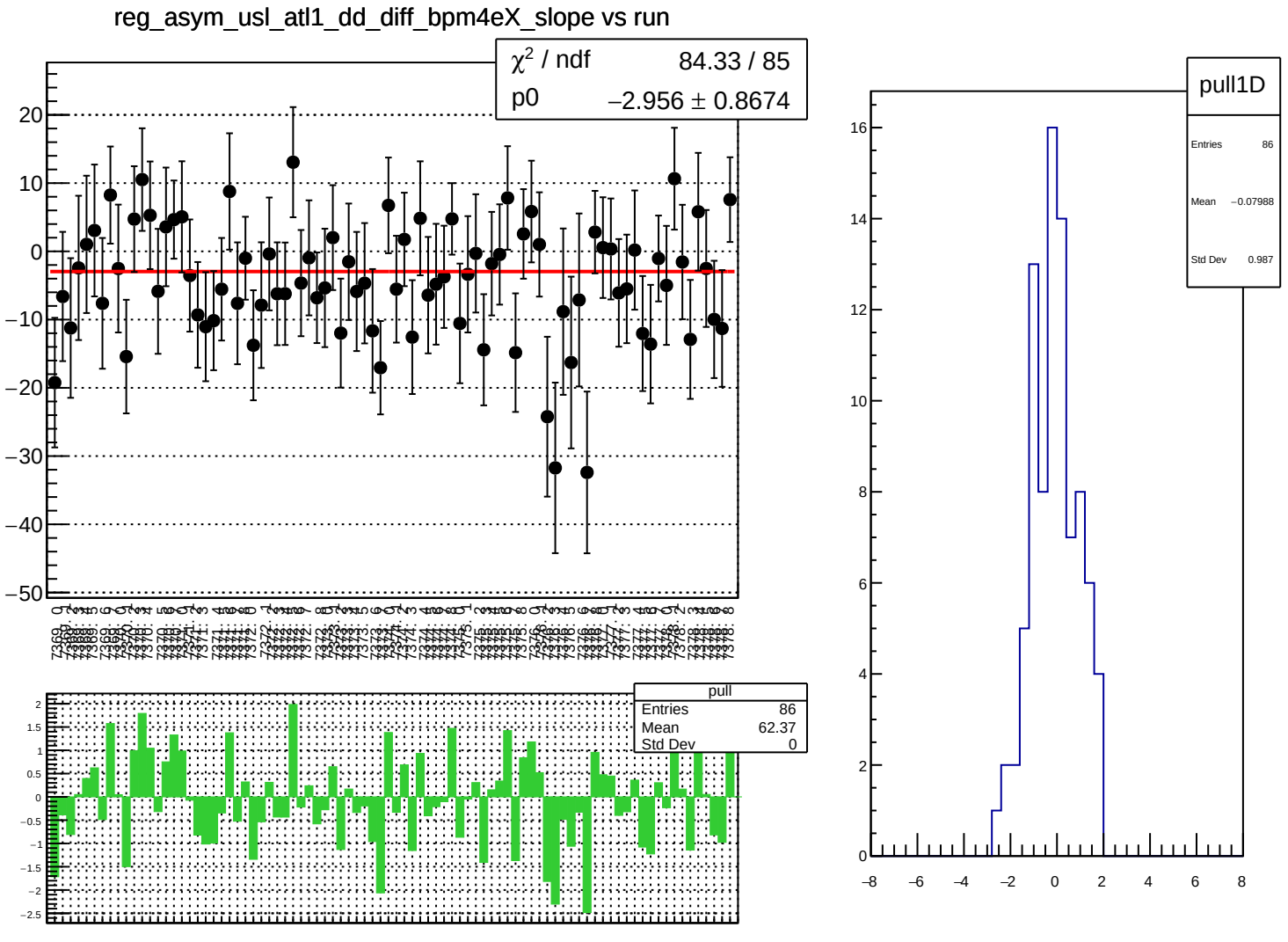

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 145.4 / 85
p0 −28.69 ± 0.06351
pull
Entries 86
Mean −6786
Std Dev 0
pull1D
Entries 86
Mean 0.002018
Std Dev 1.3

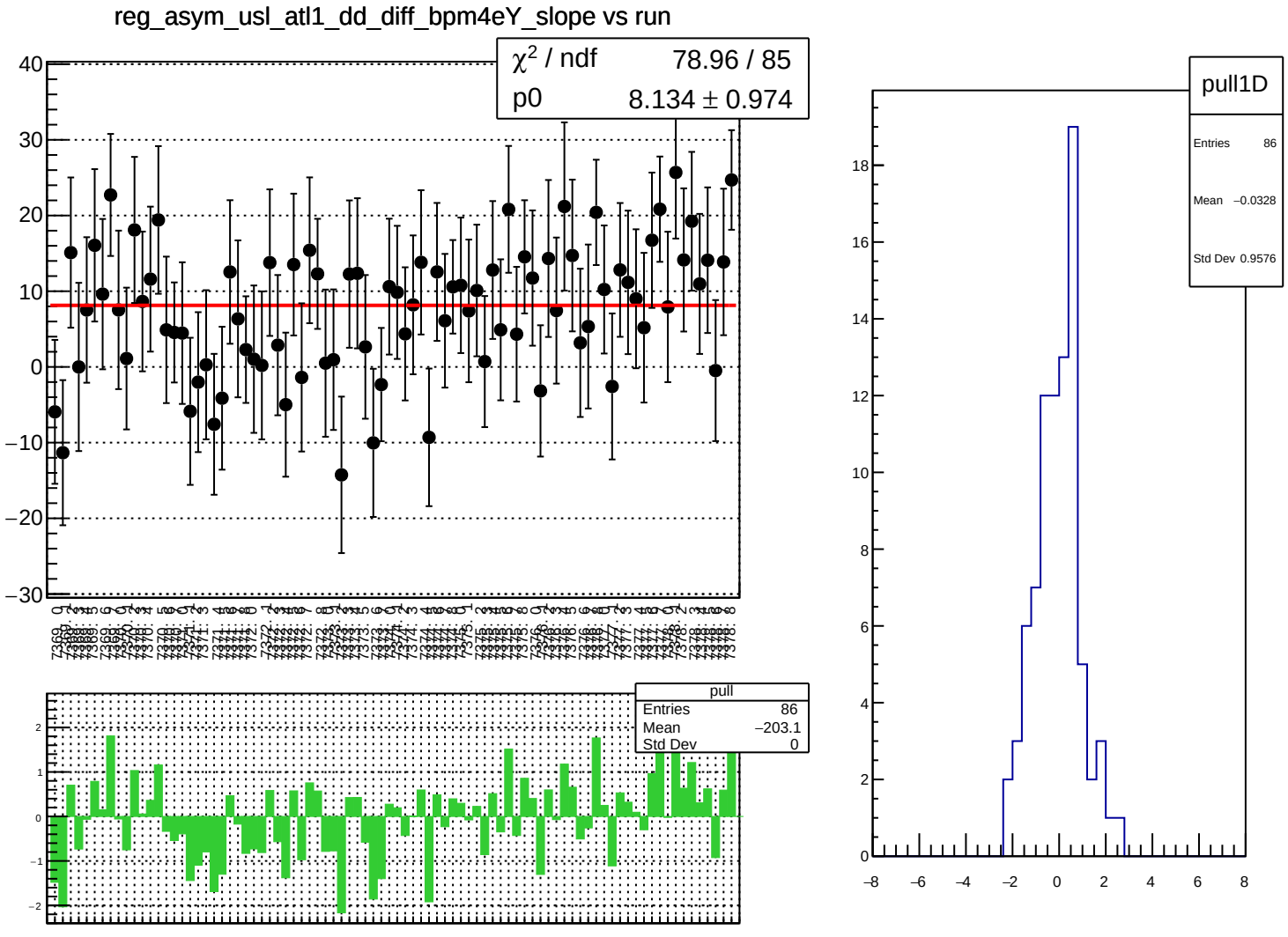

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 84.45 / 85
p0 −43.85 ± 0.8359
pull
Entries 86
Mean 64.47
Std Dev 0

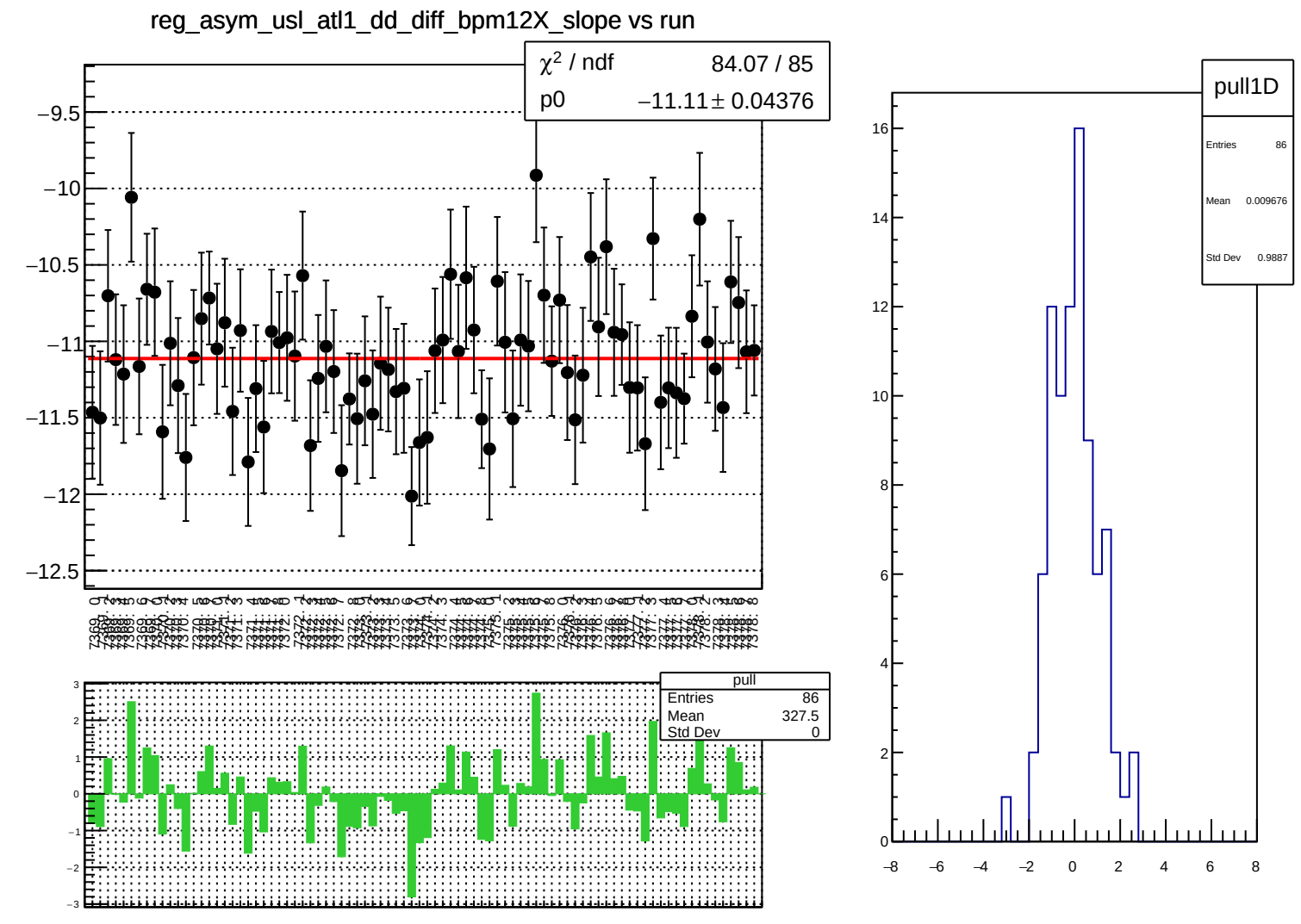

pull1D
Entries 86
Mean 0.07398
Std Dev 0.9882

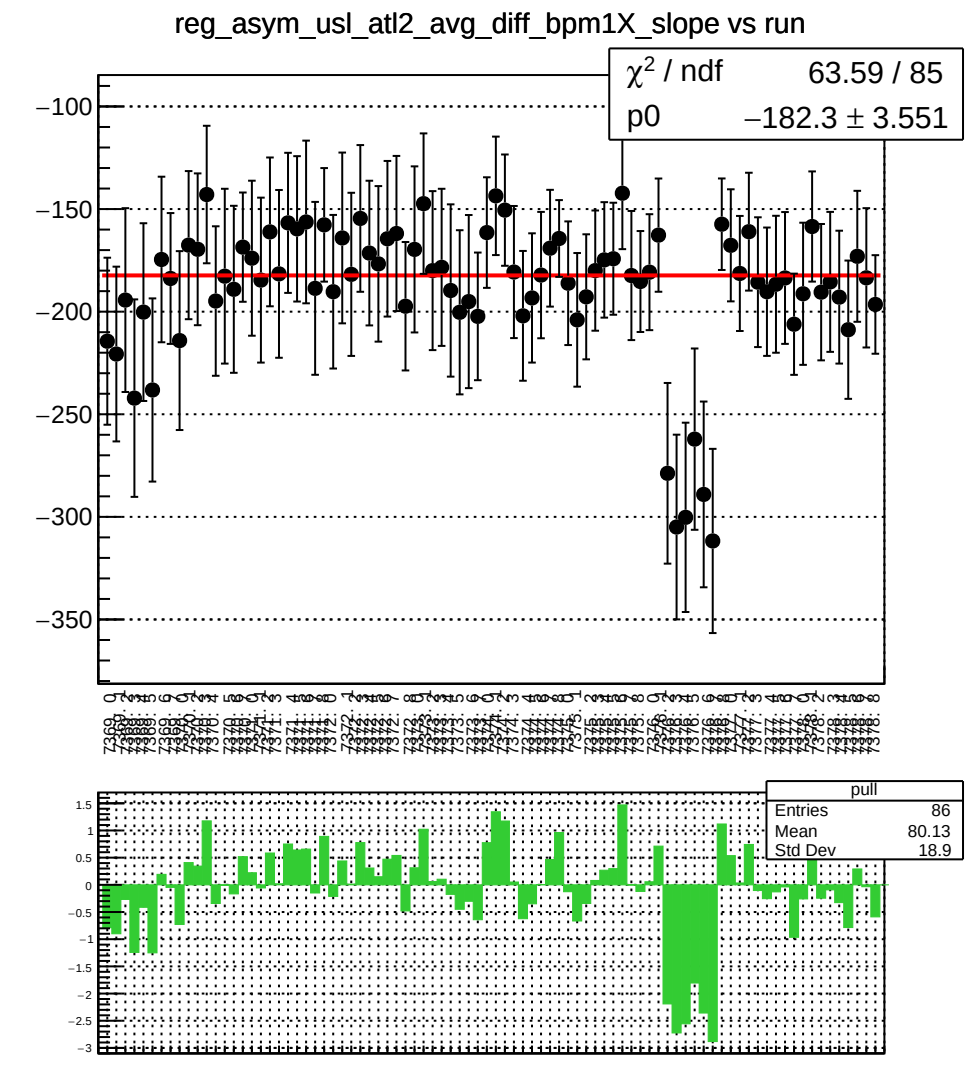

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.6 / 85
p0 6.462 ± 0.9177
pull
Entries 86
Mean −177.4
Std Dev 0

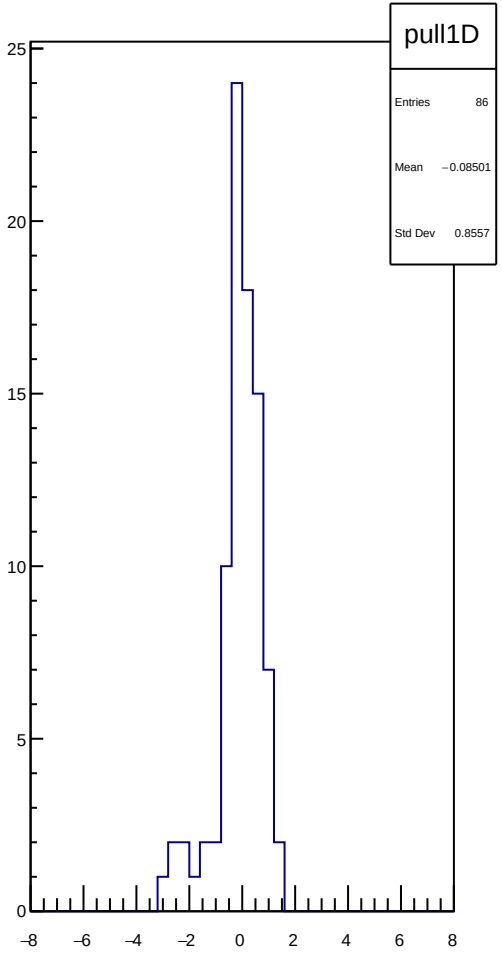

pull1D
Entries 86
Mean 0.02847
Std Dev 0.9184

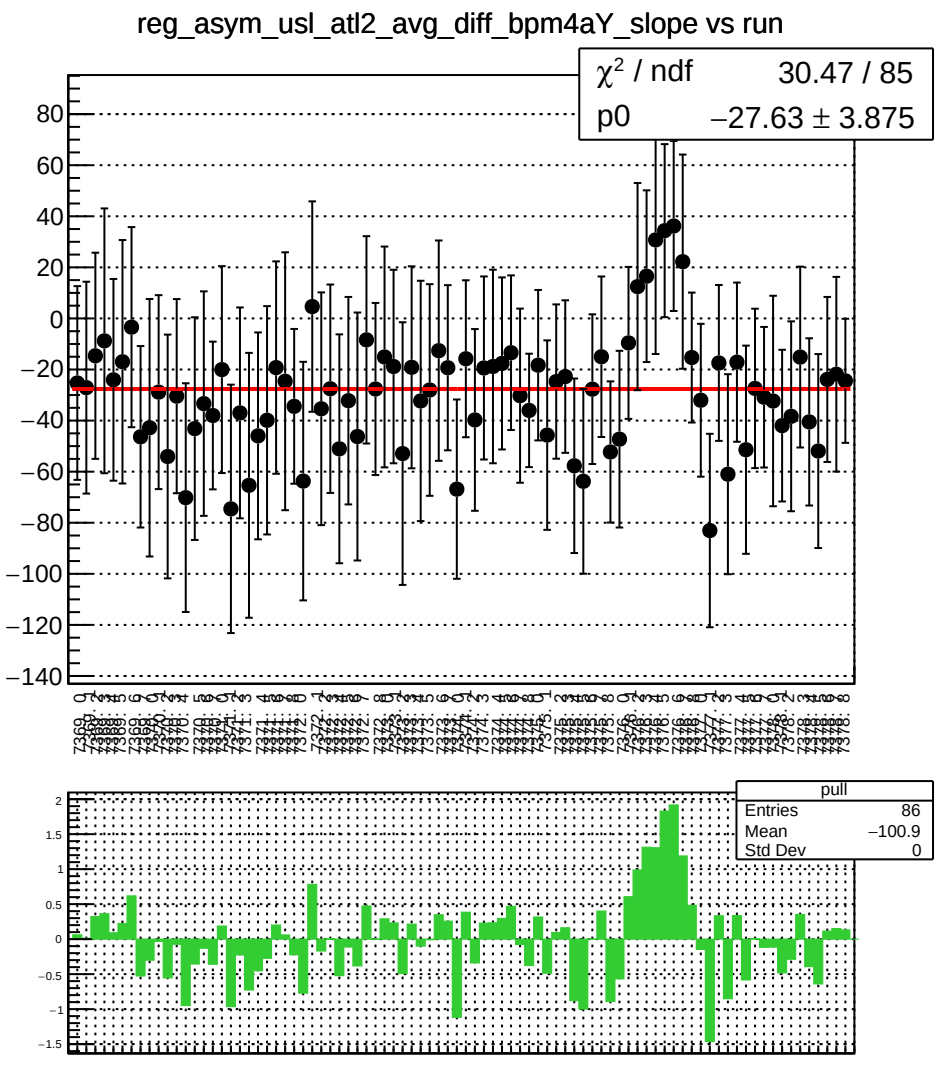

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.33 / 85
p0 −2.956 ± 0.8674
pull
Entries 86
Mean 62.37
Std Dev 0
pull1D
Entries 86
Mean −0.07988
Std Dev 0.987

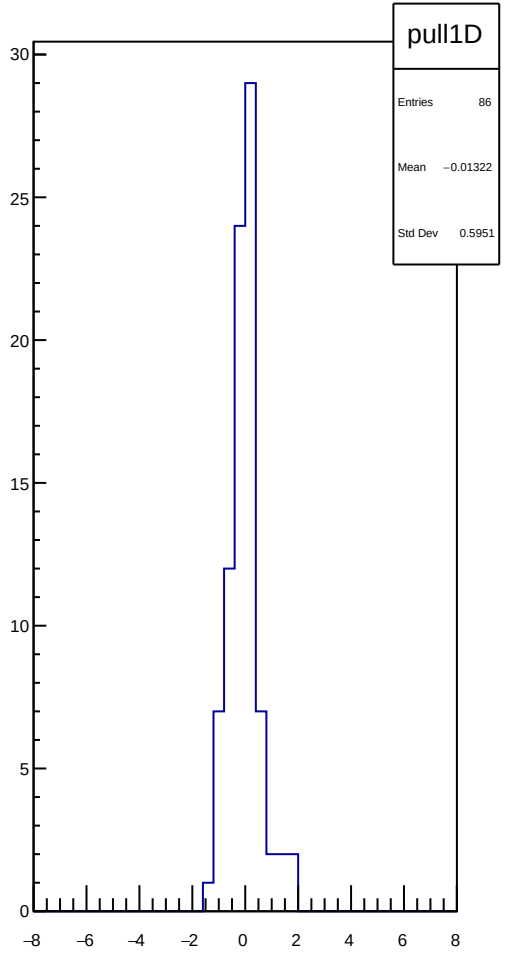

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.96 / 85
p0 8.134 ± 0.974
pull
Entries 86
Mean −203.1
Std Dev 0
pull1D
Entries 86
Mean −0.0328
Std Dev 0.9576

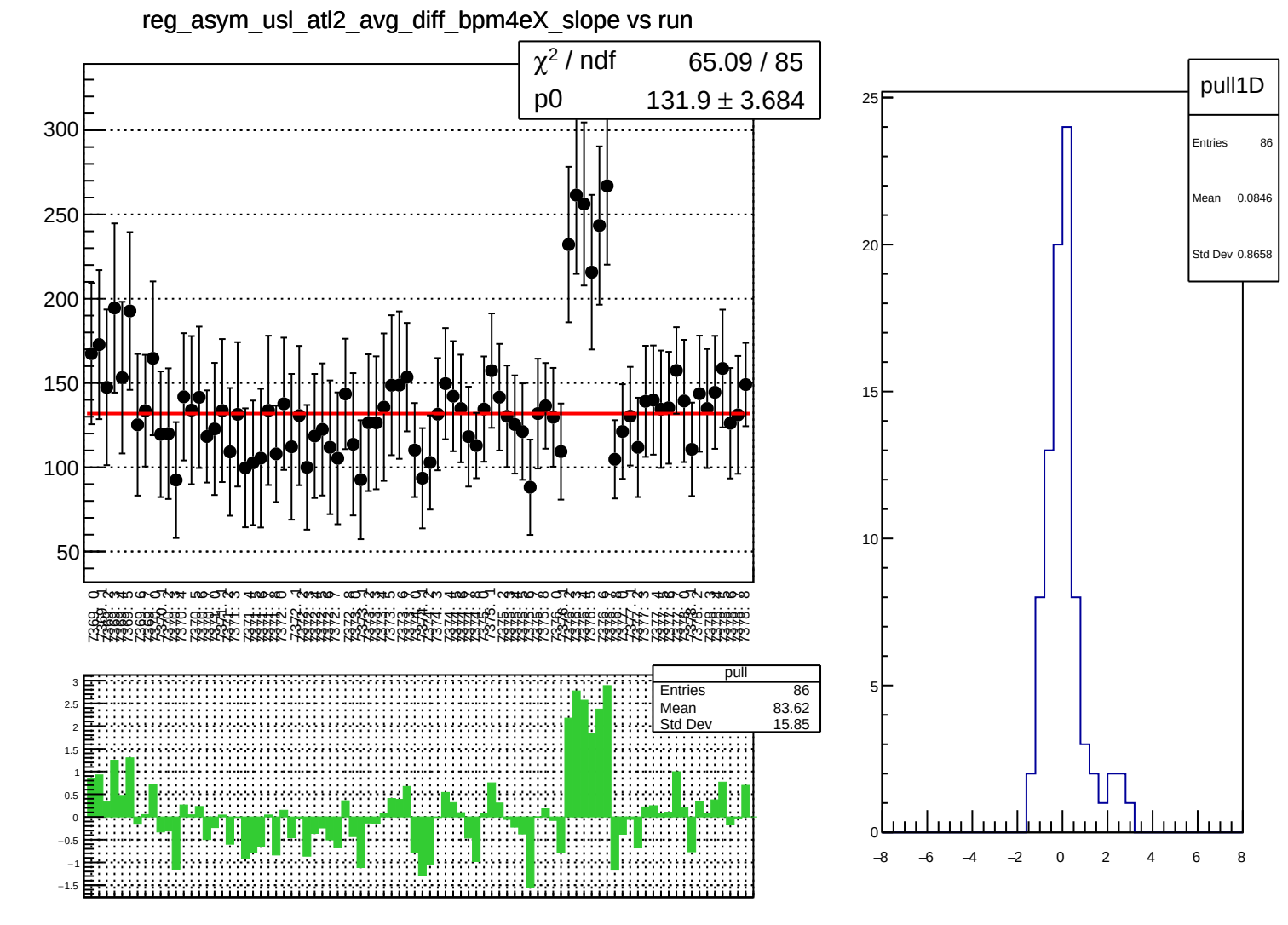

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 84.07 / 85
p0 −11.11 ± 0.04376
pull
Entries 86
Mean 327.5
Std Dev 0
pull1D
Entries 86
Mean 0.009676
Std Dev 0.9887

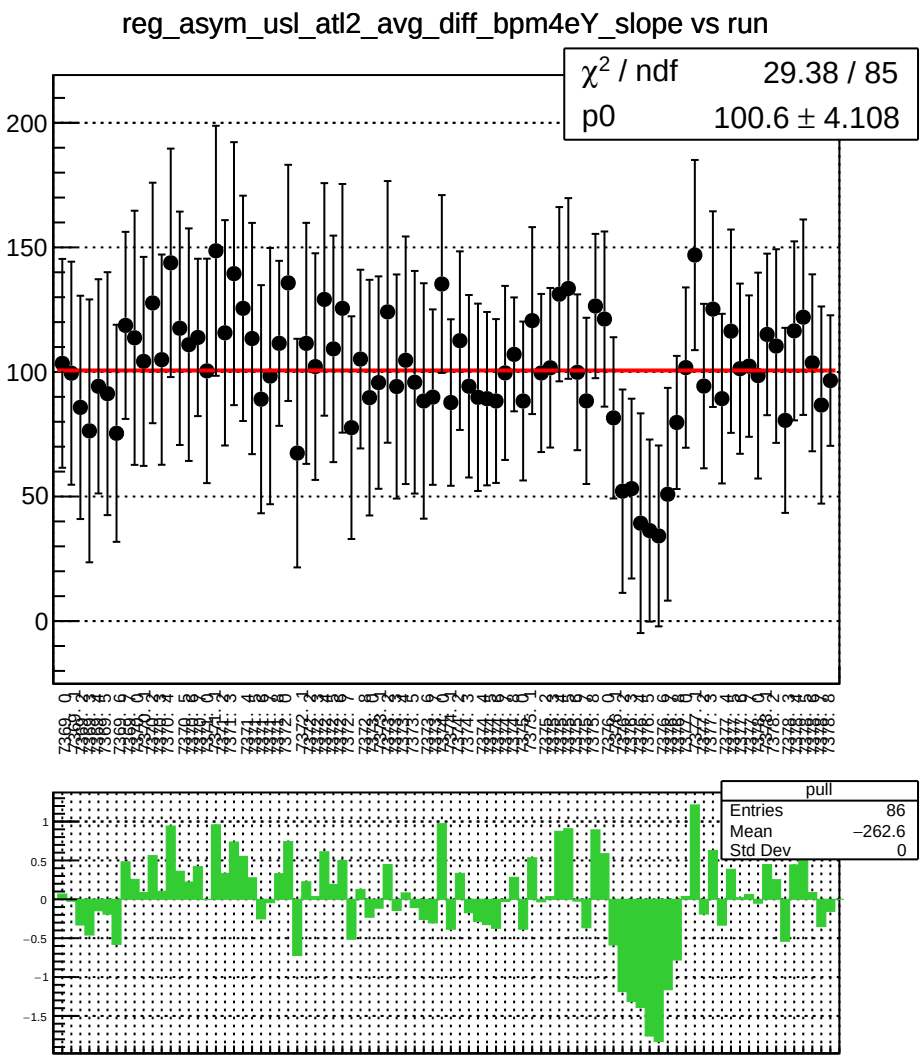

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 63.59 / 85
p0 −182.3 ± 3.551
pull
Entries 86
Mean 80.13
Std Dev 18.9

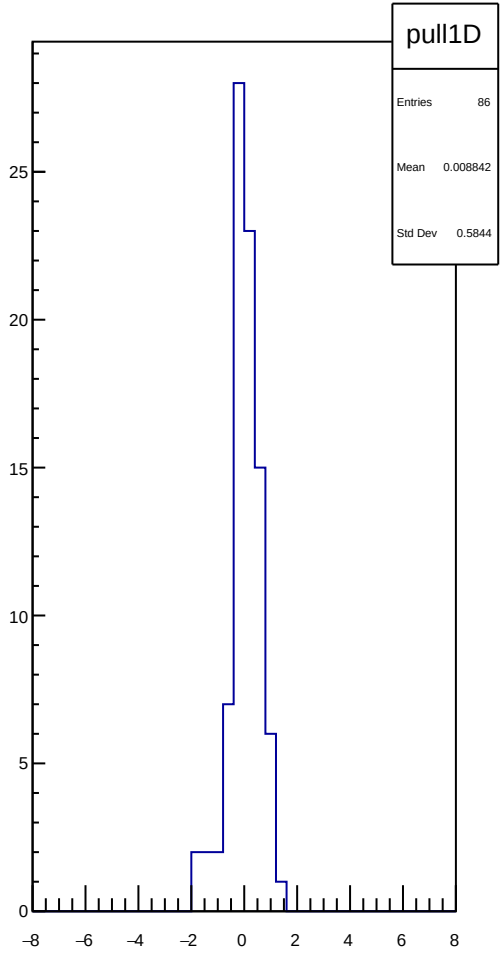

pull1D
Entries 86
Mean −0.08501
Std Dev 0.8557

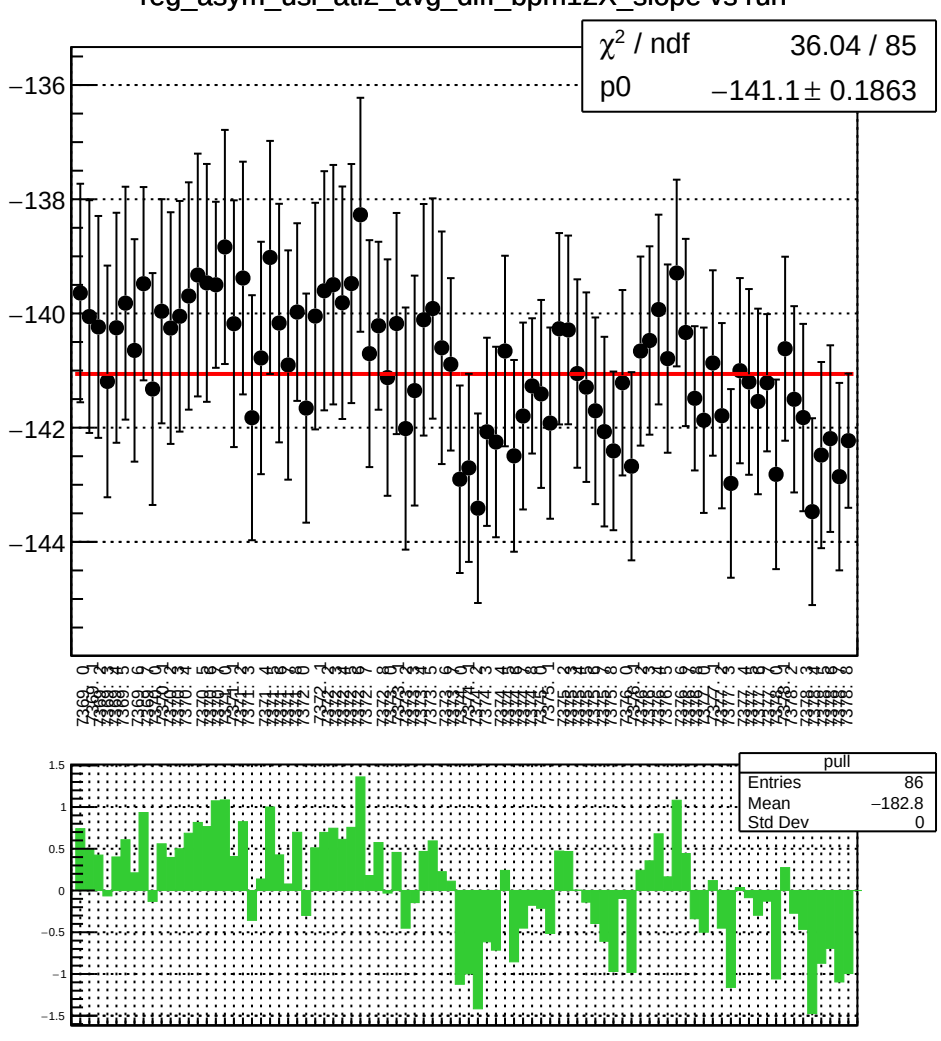

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.47 / 85
p0 −27.63 ± 3.875
pull
Entries 86
Mean −100.9
Std Dev 0

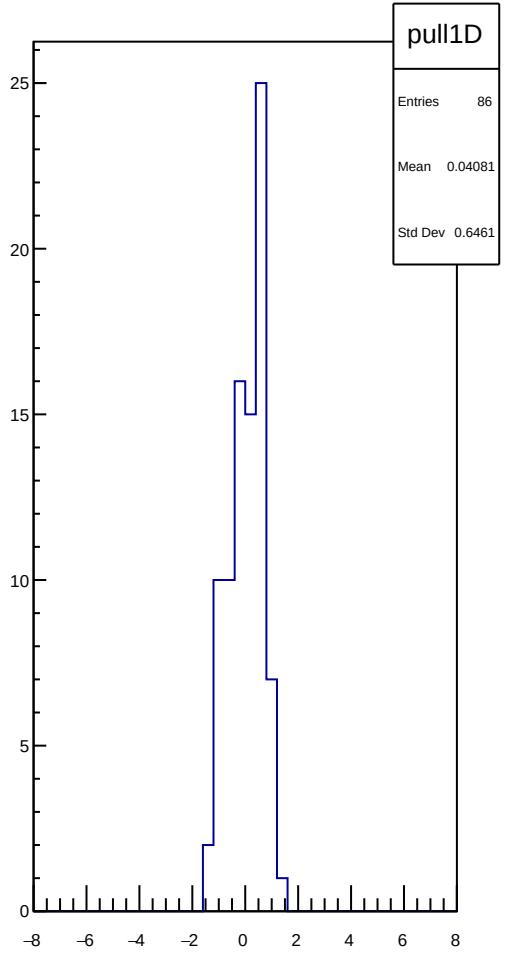

pull1D
Entries 86
Mean −0.01322
Std Dev 0.5951

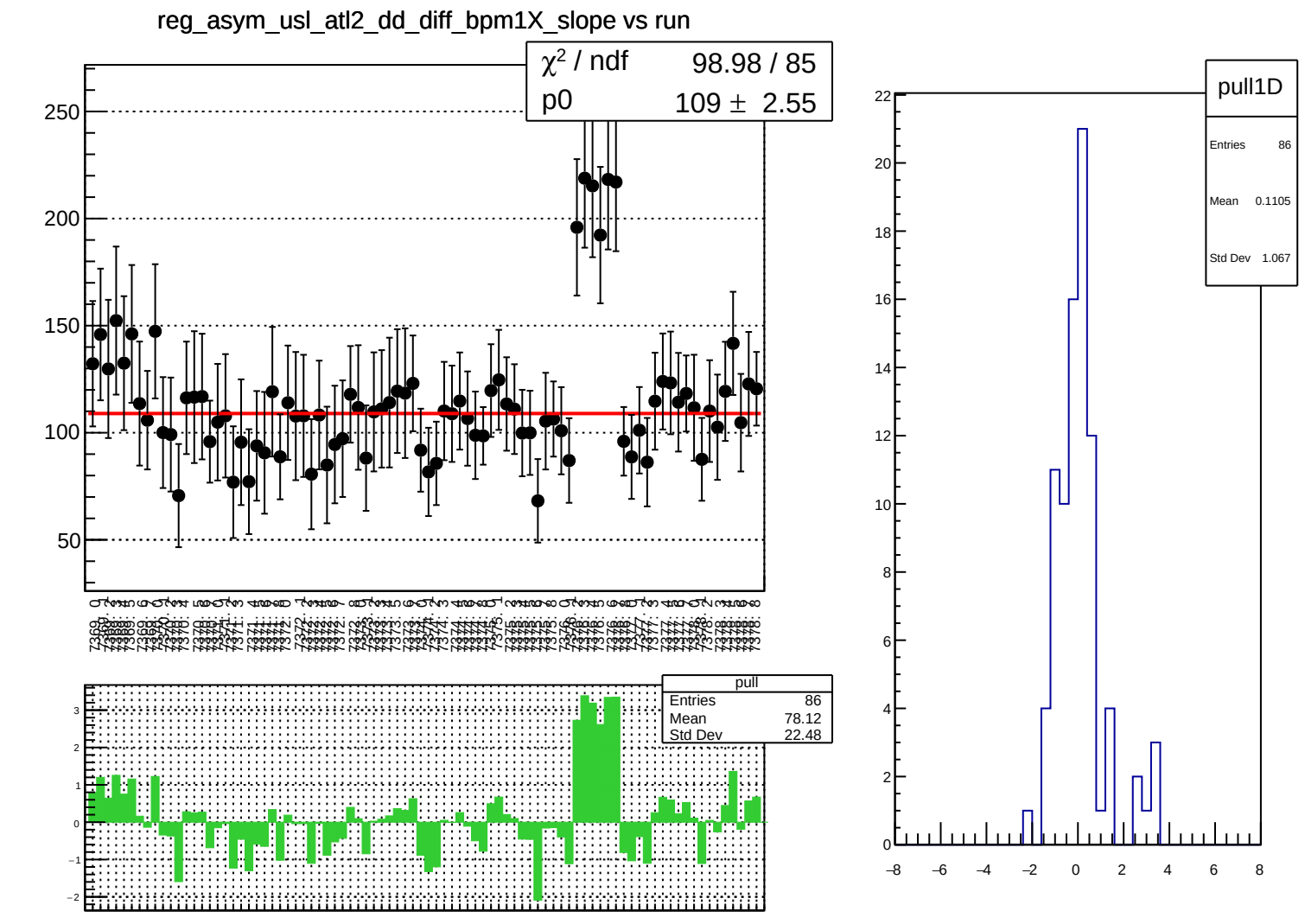

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.09 / 85
p0 131.9 ± 3.684
pull
Entries 86
Mean 83.62
Std Dev 15.85
pull1D
Entries 86
Mean 0.0846
Std Dev 0.8658

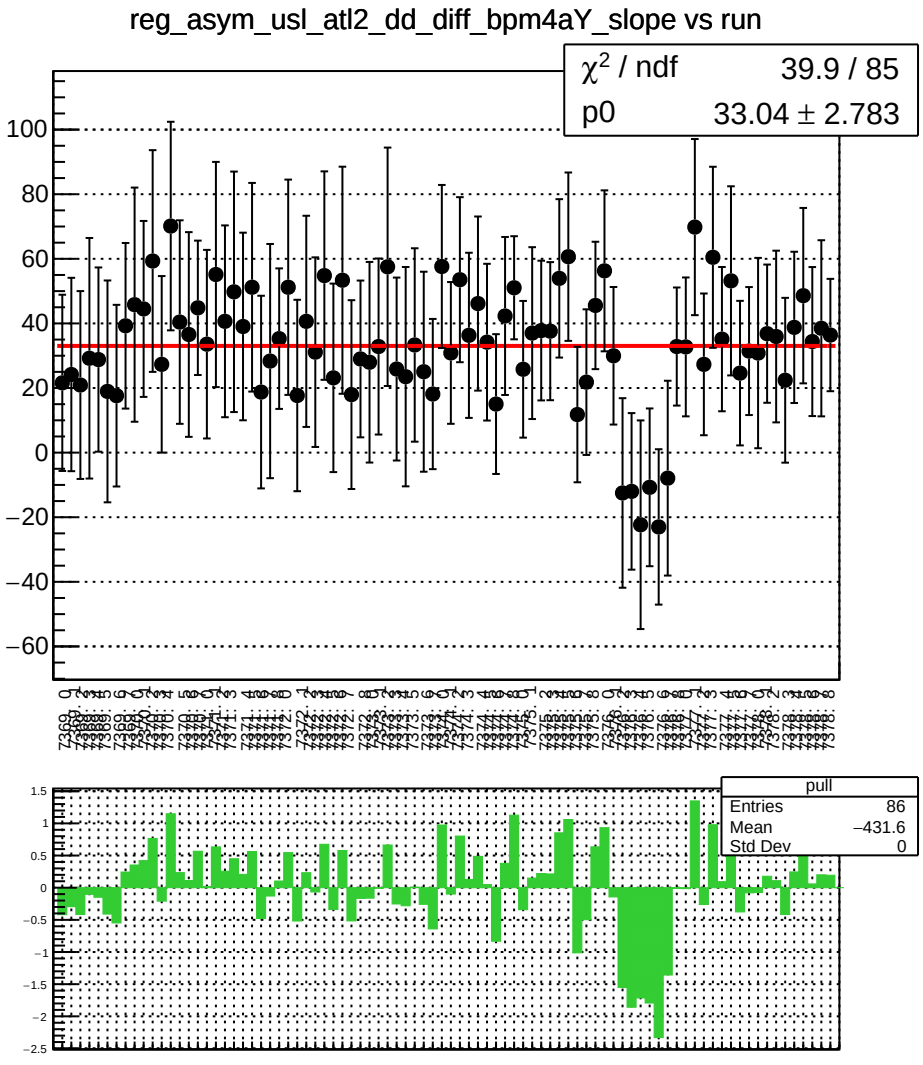

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.38 / 85
p0 100.6 ± 4.108
200
150
100
50
0
pull
Entries 86
Mean −262.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

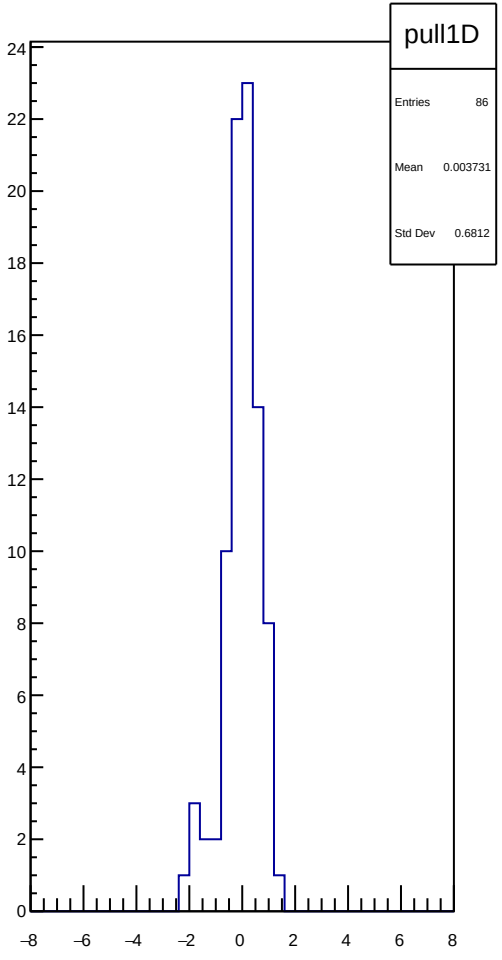

pull1D
Entries 86
Mean 0.008842
Std Dev 0.5844
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

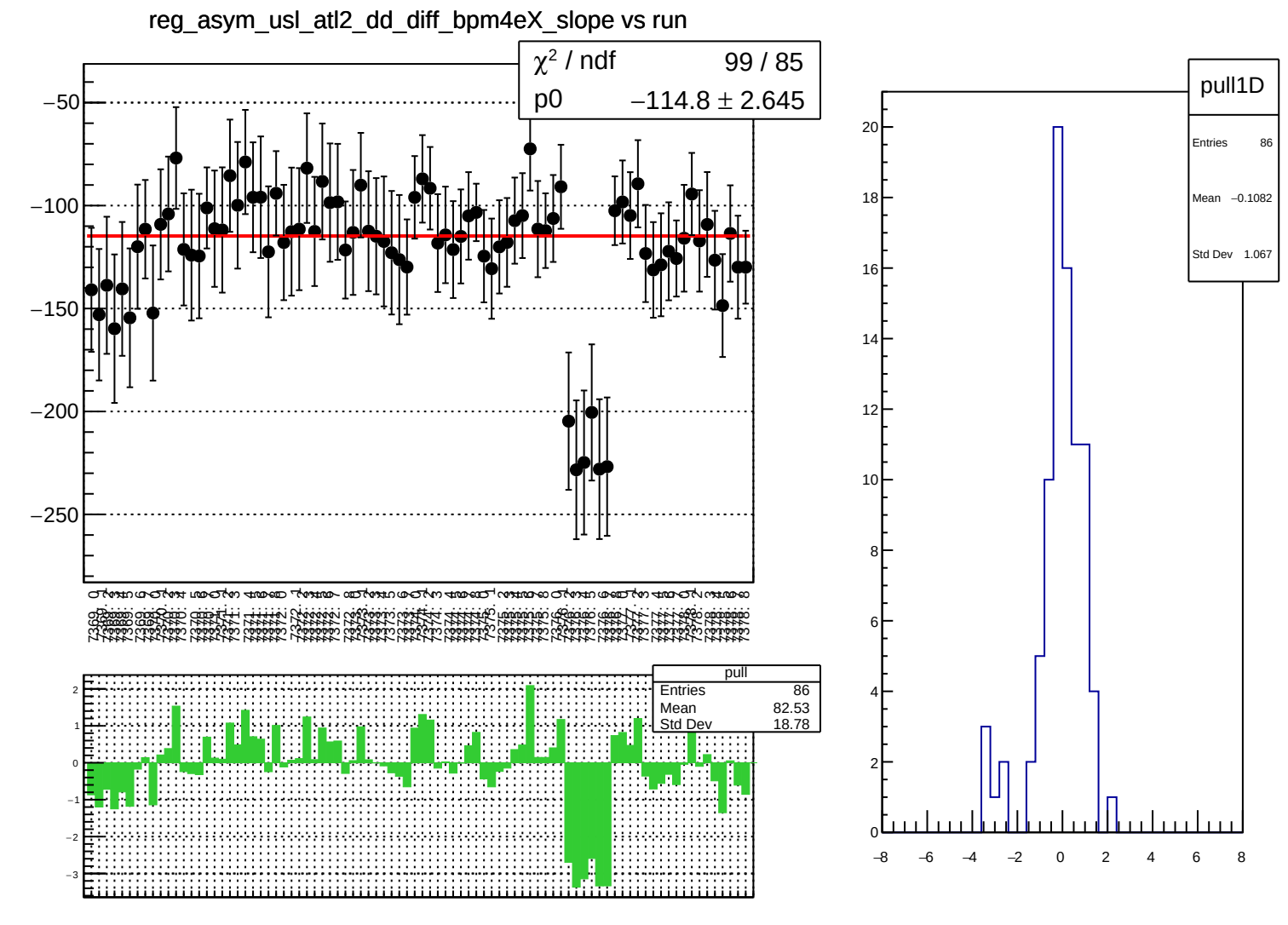

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 36.04 / 85
p0 −141.1 ± 0.1863
−136
−138
−140
−142
−144
pull
Entries 86
Mean −182.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

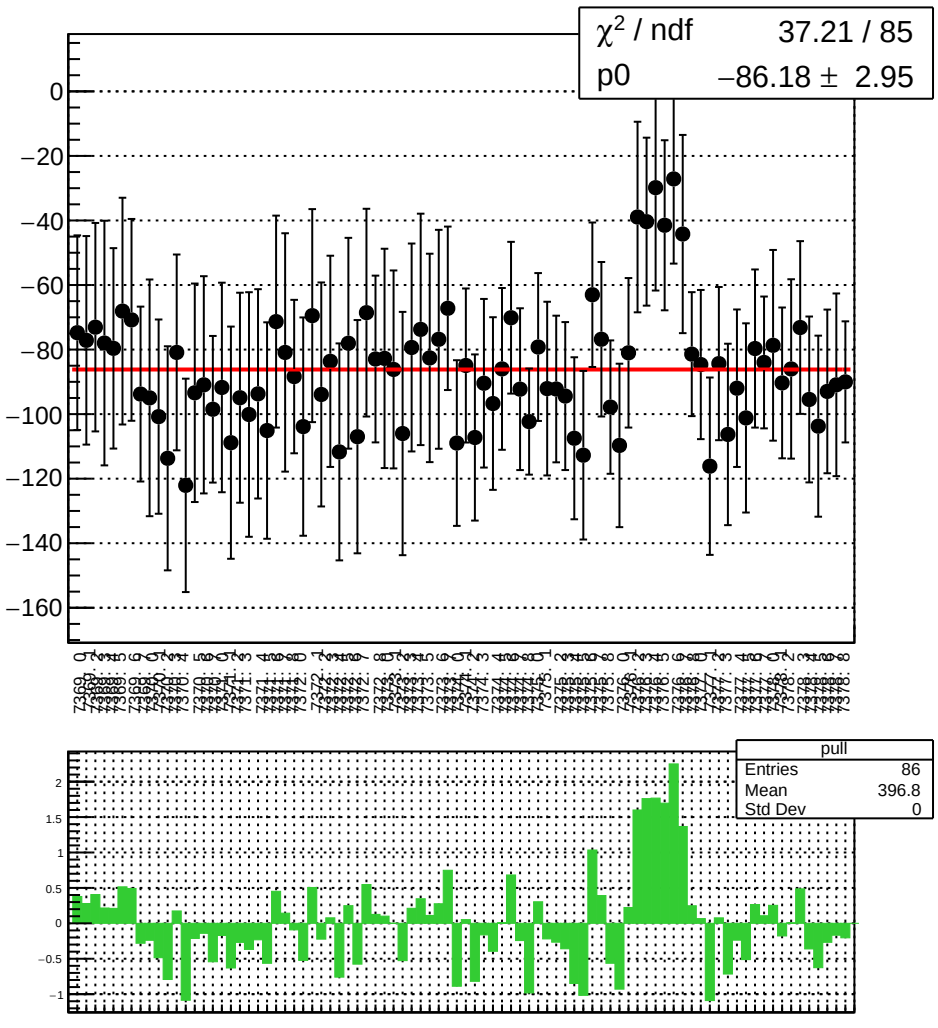

pull1D
Entries 86
Mean 0.04081
Std Dev 0.6461
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

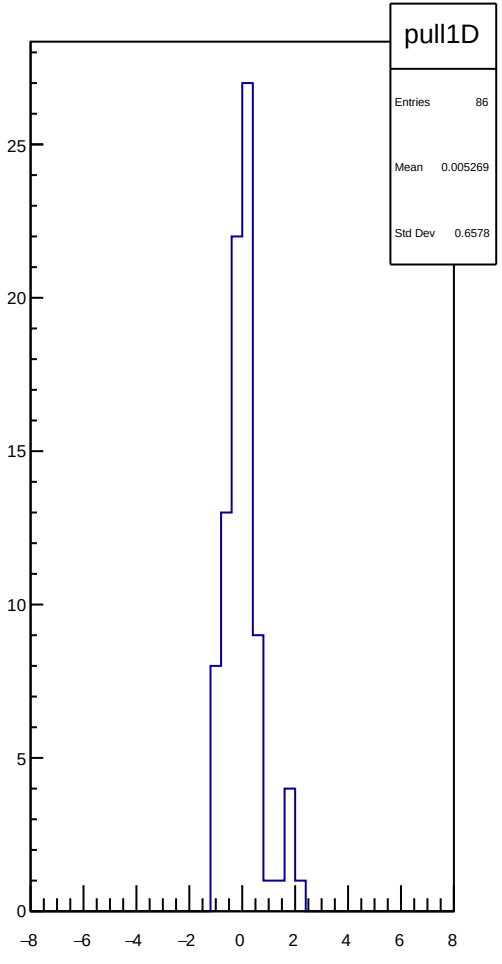

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 98.98 / 85
p0 109 ± 2.55
250
200
150
100
50
pull
Entries 86
Mean 78.12
Std Dev 22.48
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.1105
Std Dev 1.067
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

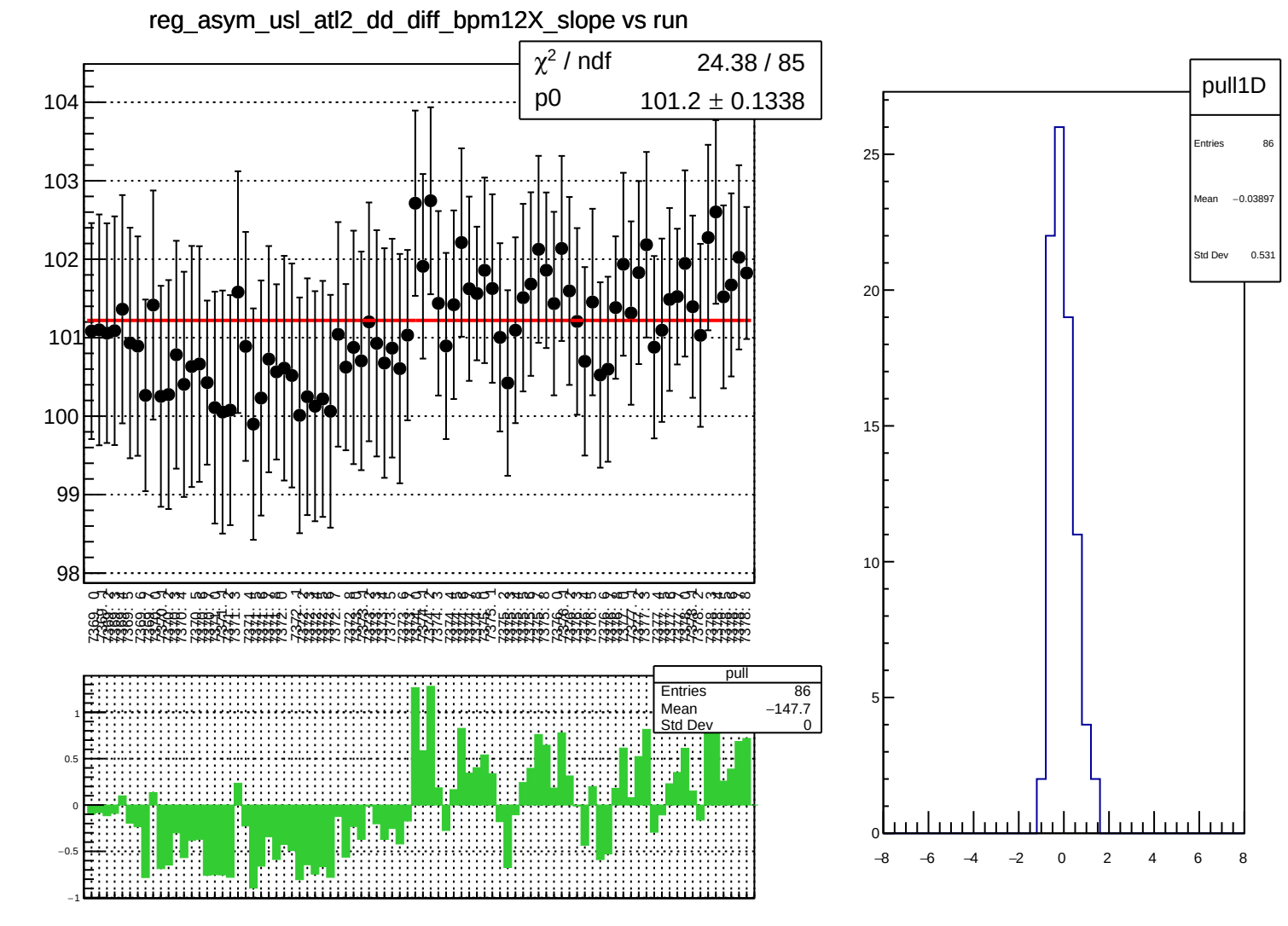

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.9 / 85
p0 33.04 ± 2.783
pull
Entries 86
Mean −431.6
Std Dev 0

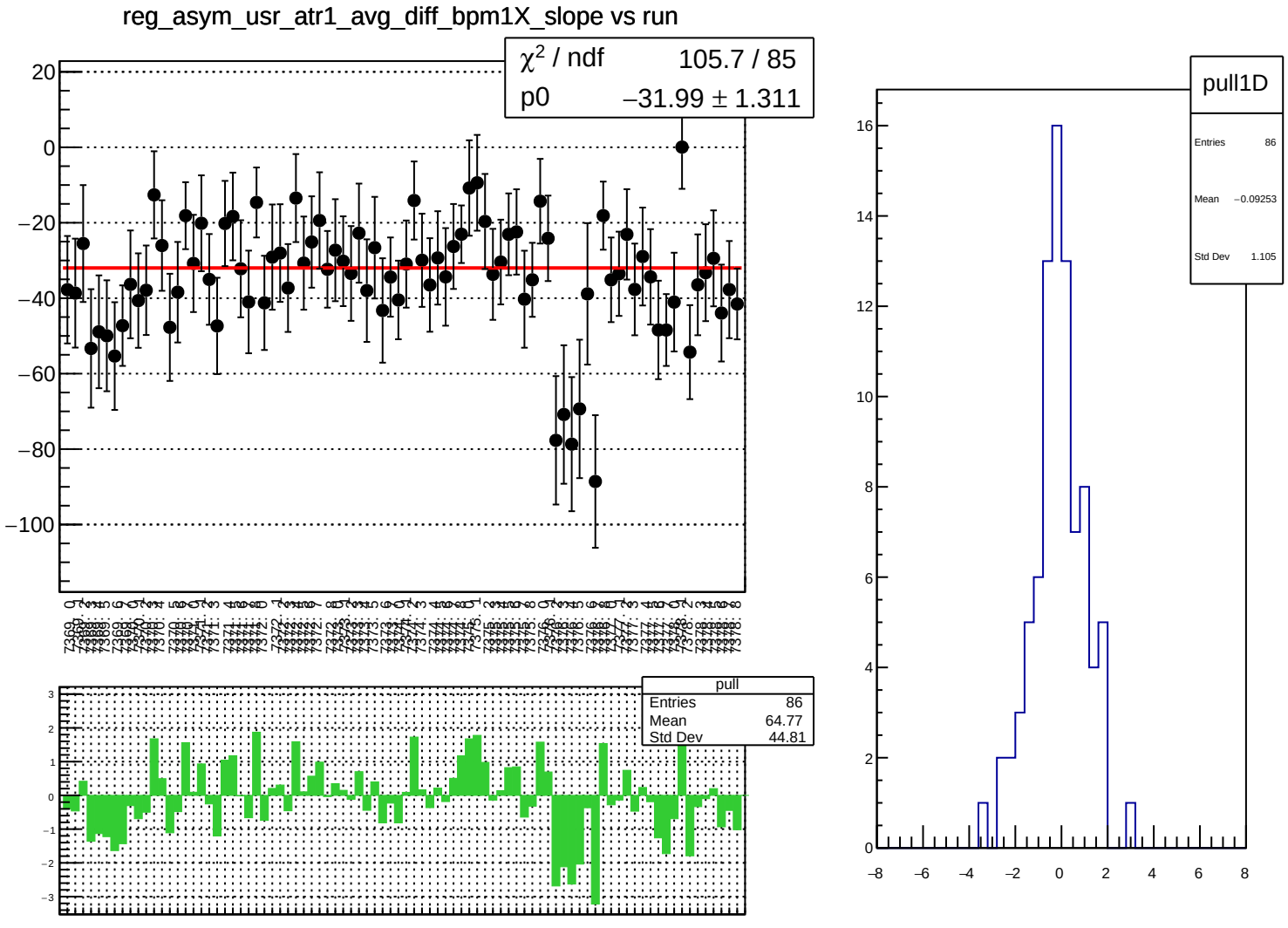

pull1D
Entries 86
Mean 0.003731
Std Dev 0.6812

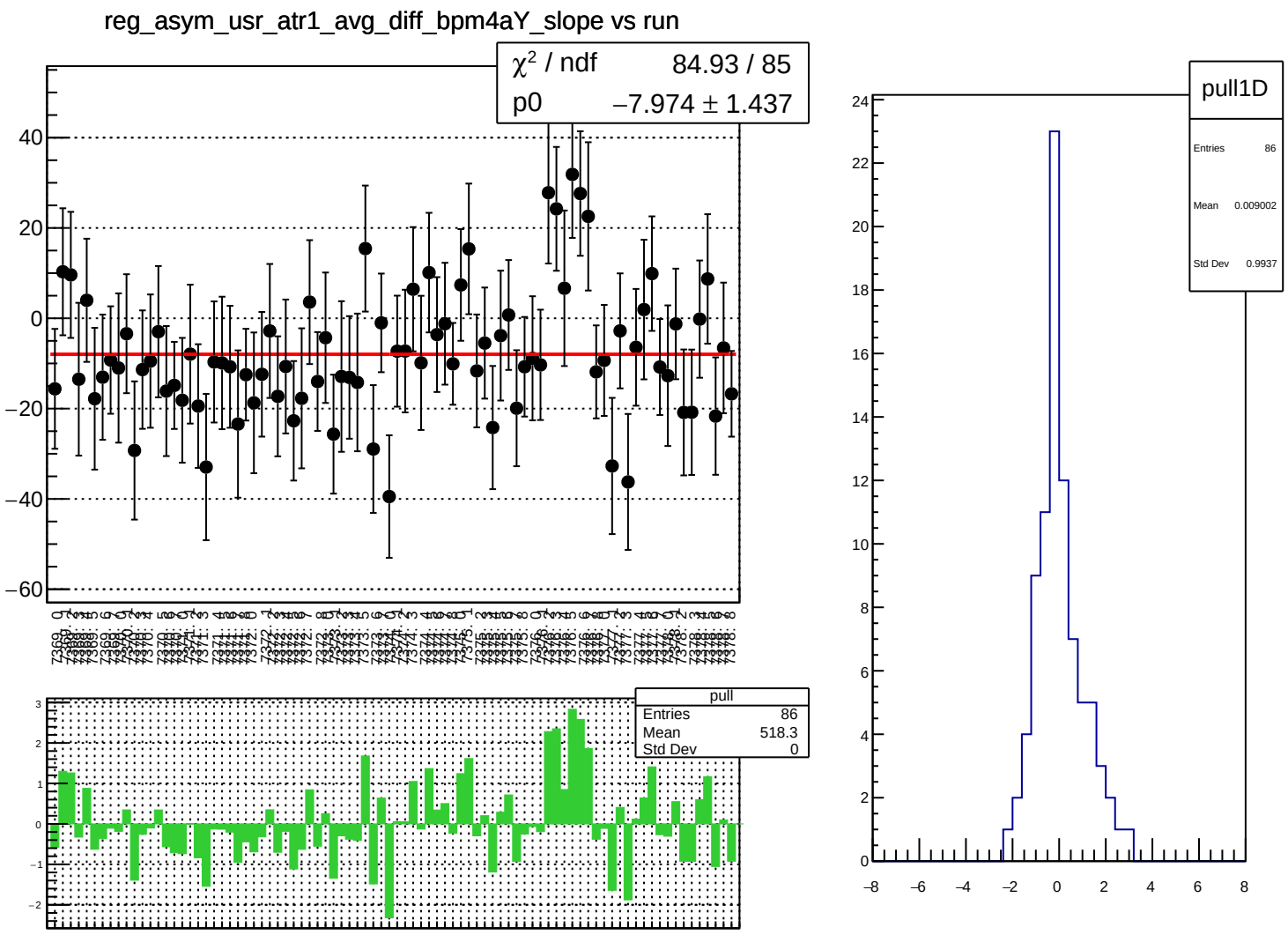

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 99 / 85
p0 −114.8 ± 2.645
−50
−100
−150
−200
−250
pull
Entries 86
Mean 82.53
Std Dev 18.78
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.1082
Std Dev 1.067
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

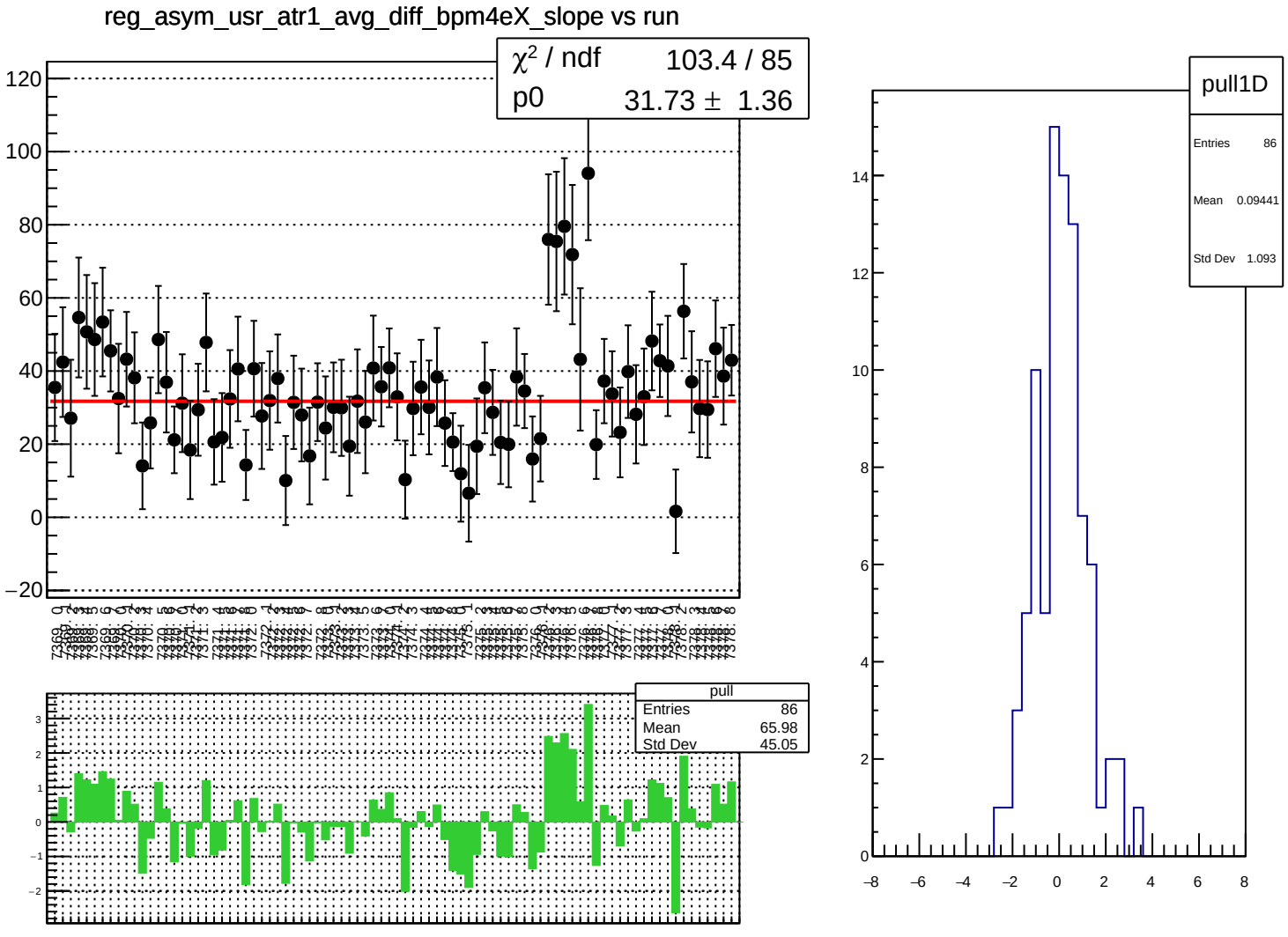

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.21 / 85
p0 −86.18 ± 2.95
pull
Entries 86
Mean 396.8
Std Dev 0

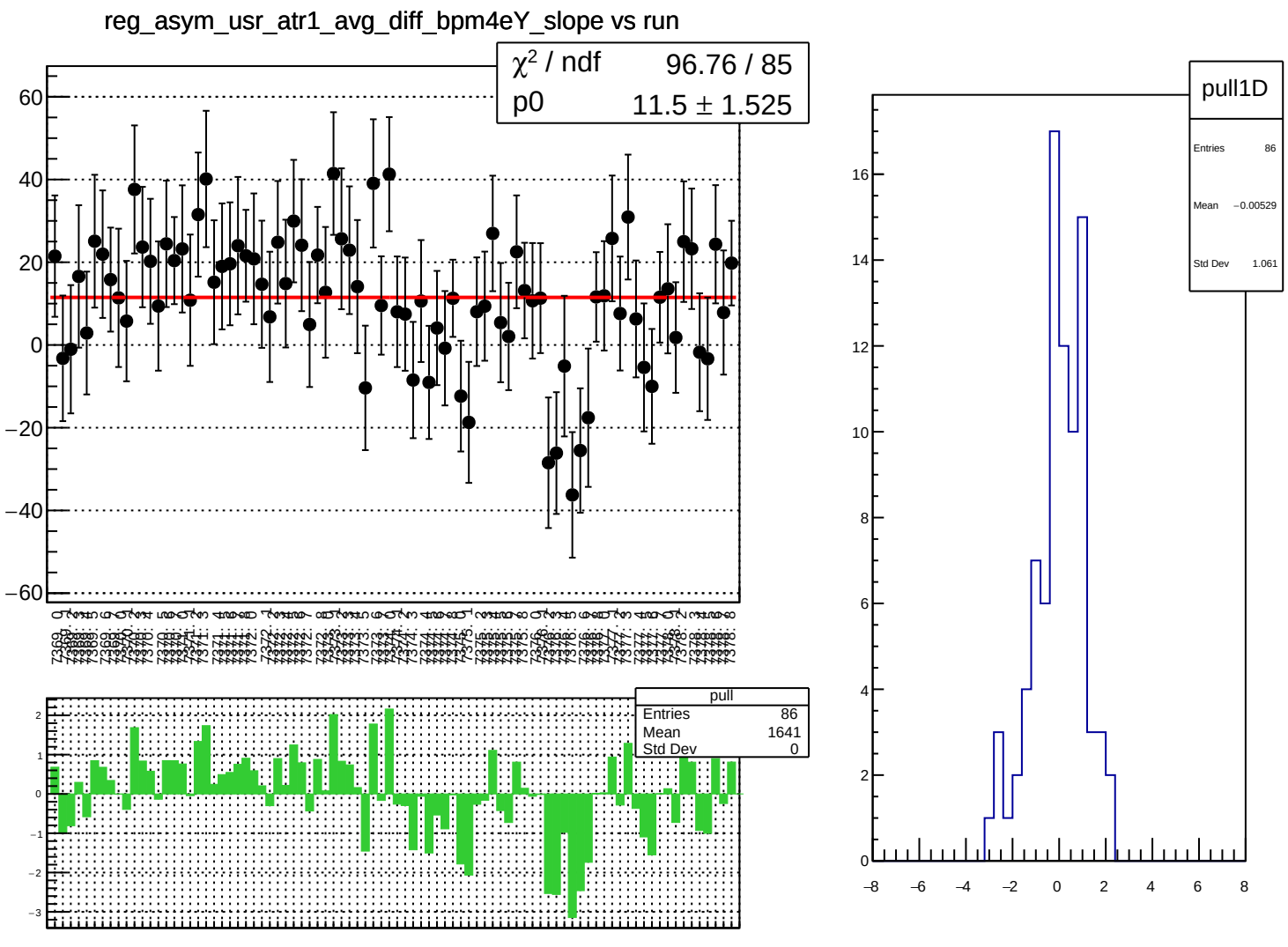

pull1D
Entries 86
Mean 0.005269
Std Dev 0.6578

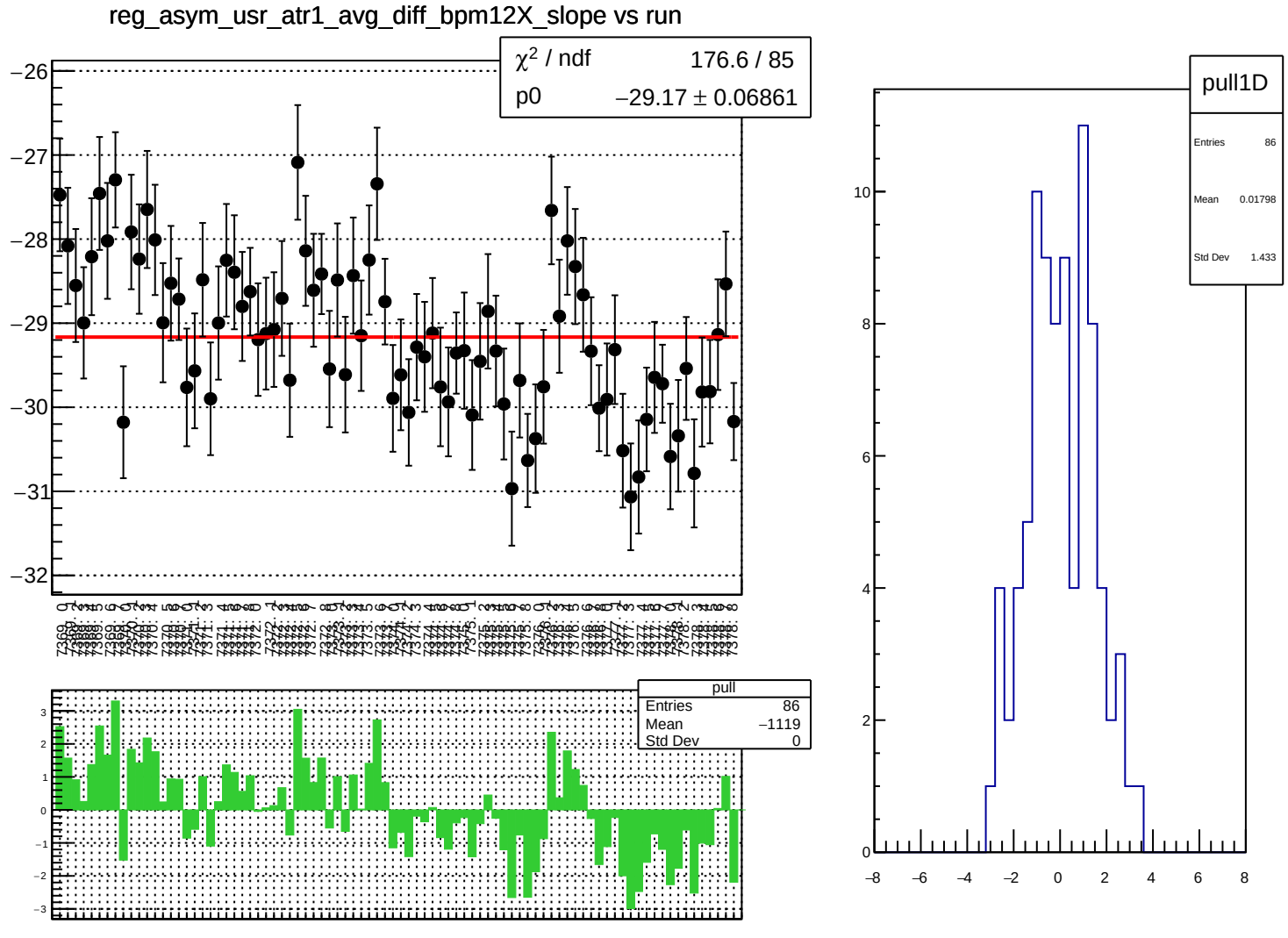

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 24.38 / 85
p0 101.2 ± 0.1338
pull
Entries 86
Mean −147.7
Std Dev 0
pull1D
Entries 86
Mean −0.03897
Std Dev 0.531

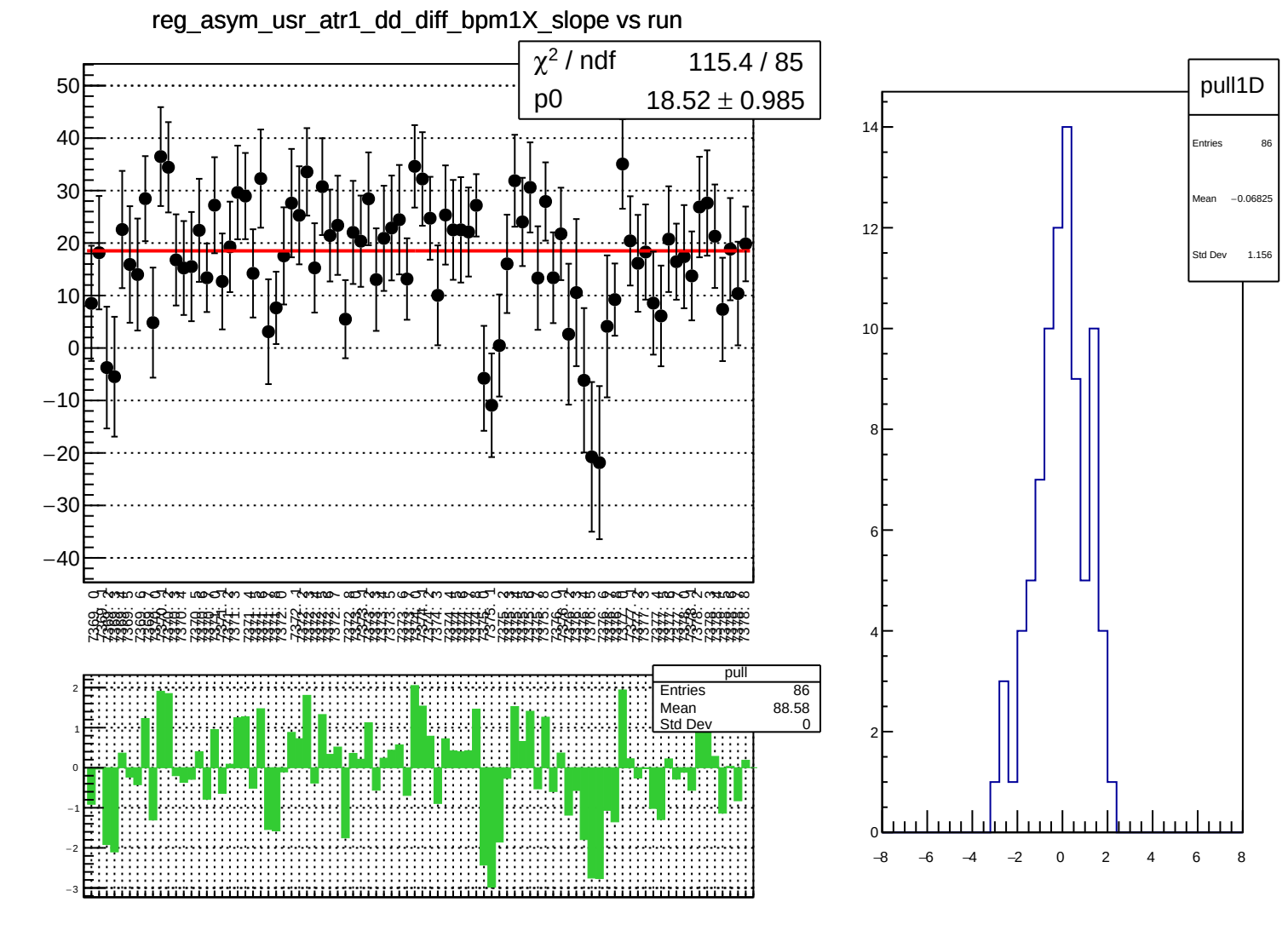

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 105.7 / 85
p0 −31.99 ± 1.311
pull
Entries 86
Mean 64.77
Std Dev 44.81
pull1D
Entries 86
Mean −0.09253
Std Dev 1.105

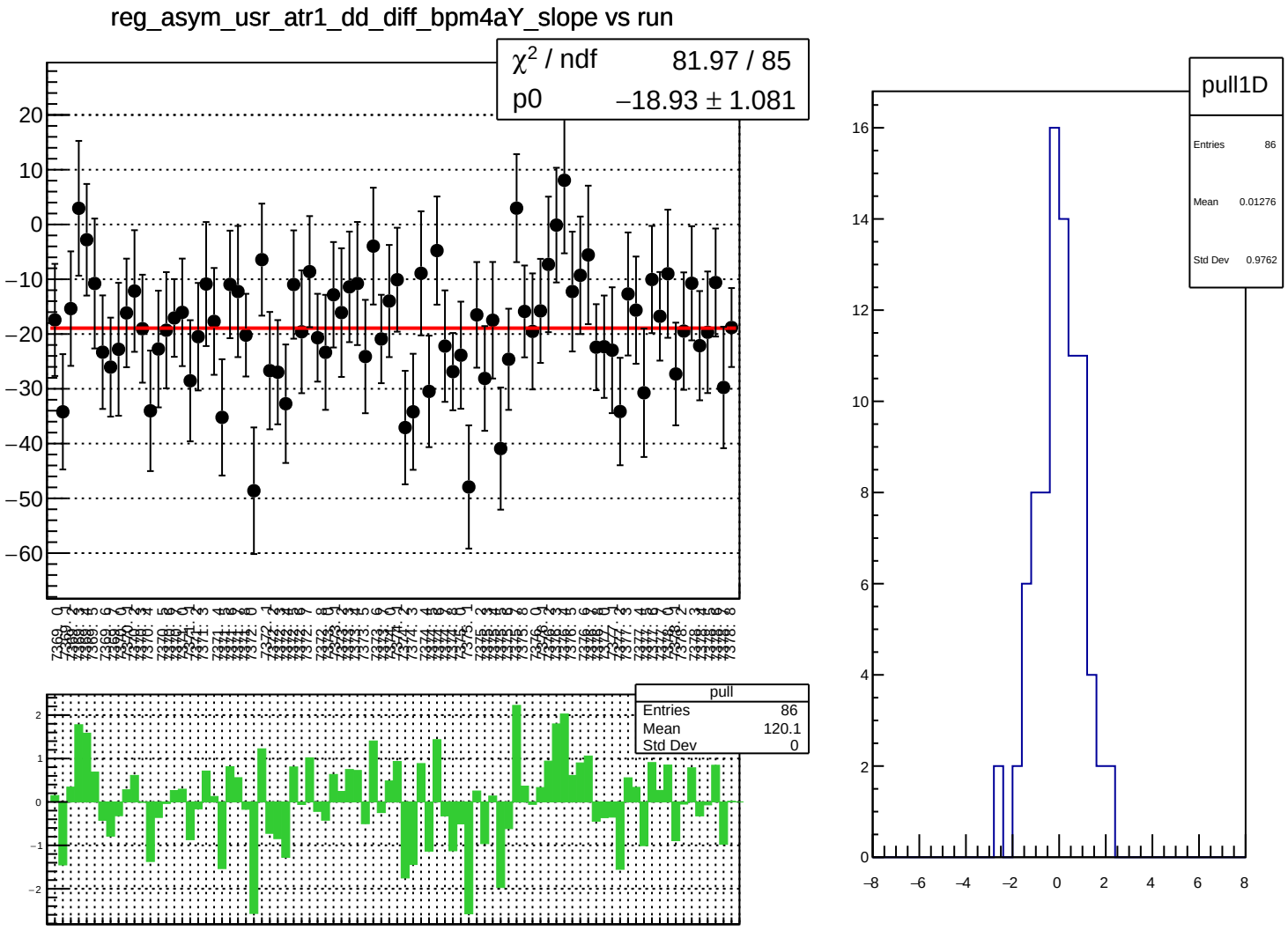

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.93 / 85
p0 −7.974 ± 1.437
pull
Entries 86
Mean 518.3
Std Dev 0
pull1D
Entries 86
Mean 0.009002
Std Dev 0.9937

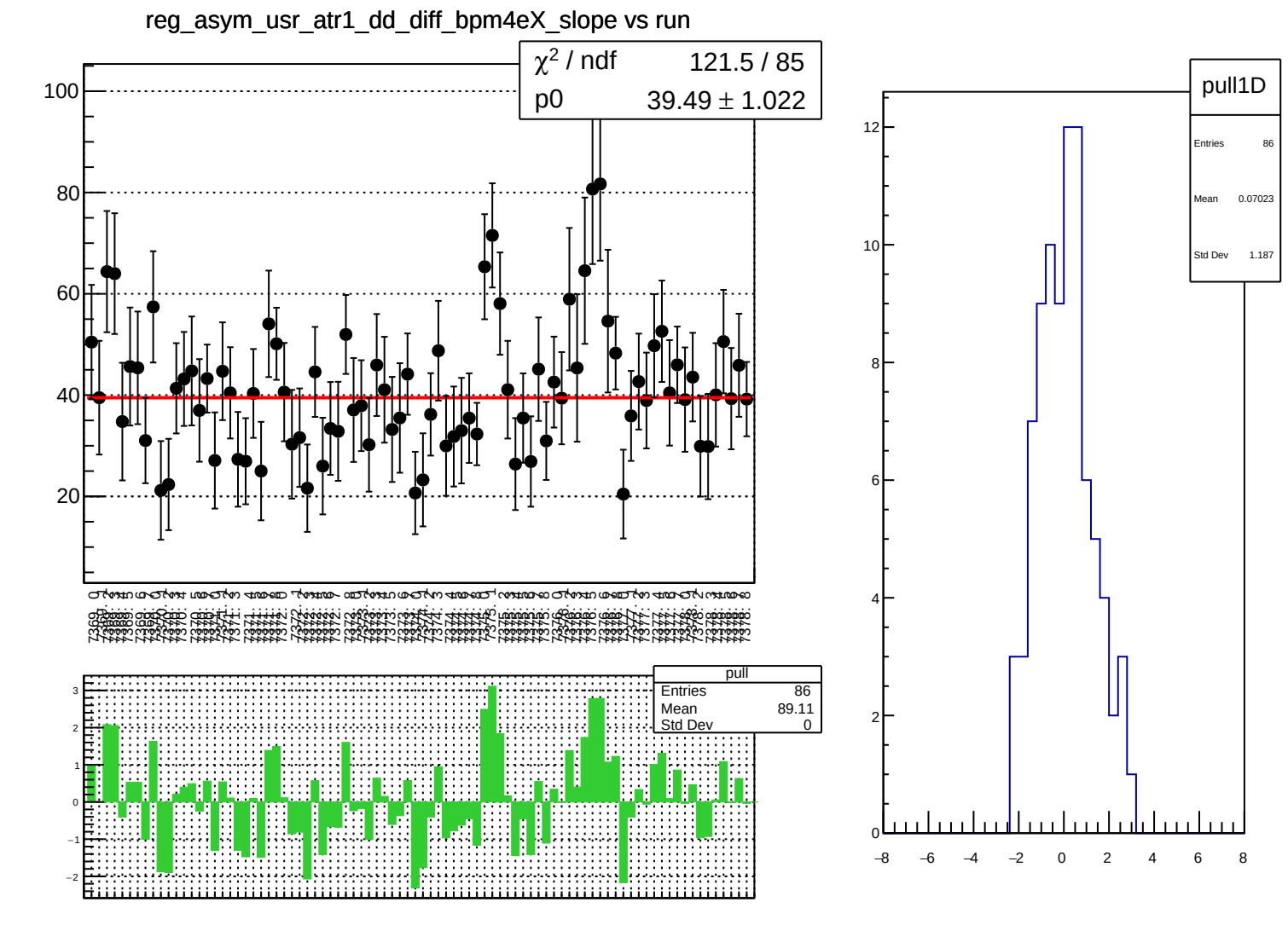

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.4 / 85
p0 31.73 ± 1.36
pull
Entries 86
Mean 65.98
Std Dev 45.05
pull1D
Entries 86
Mean 0.09441
Std Dev 1.093

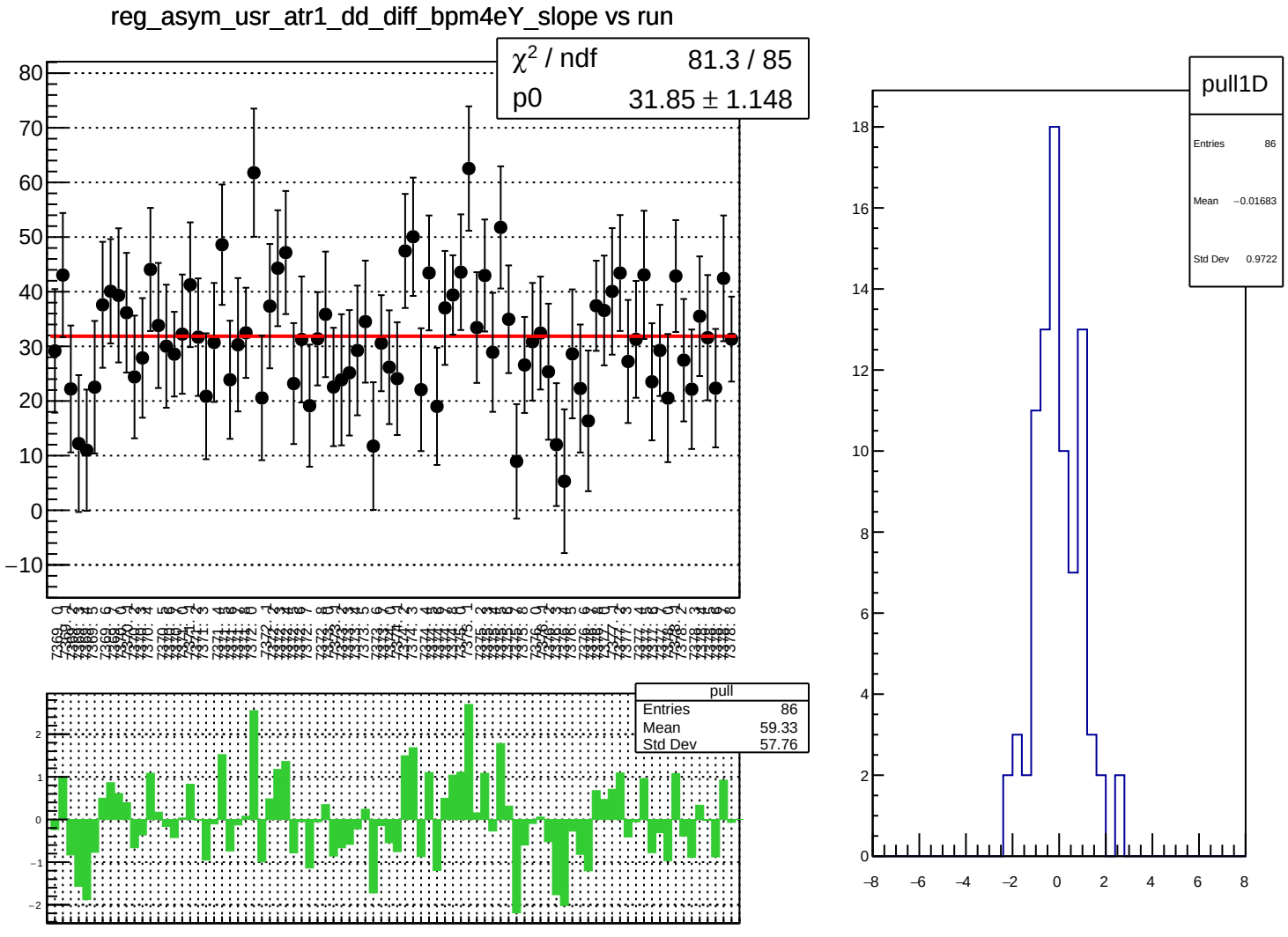

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 96.76 / 85
p0 11.5 ± 1.525
pull
Entries 86
Mean 1641
Std Dev 0
pull1D
Entries 86
Mean −0.00529
Std Dev 1.061

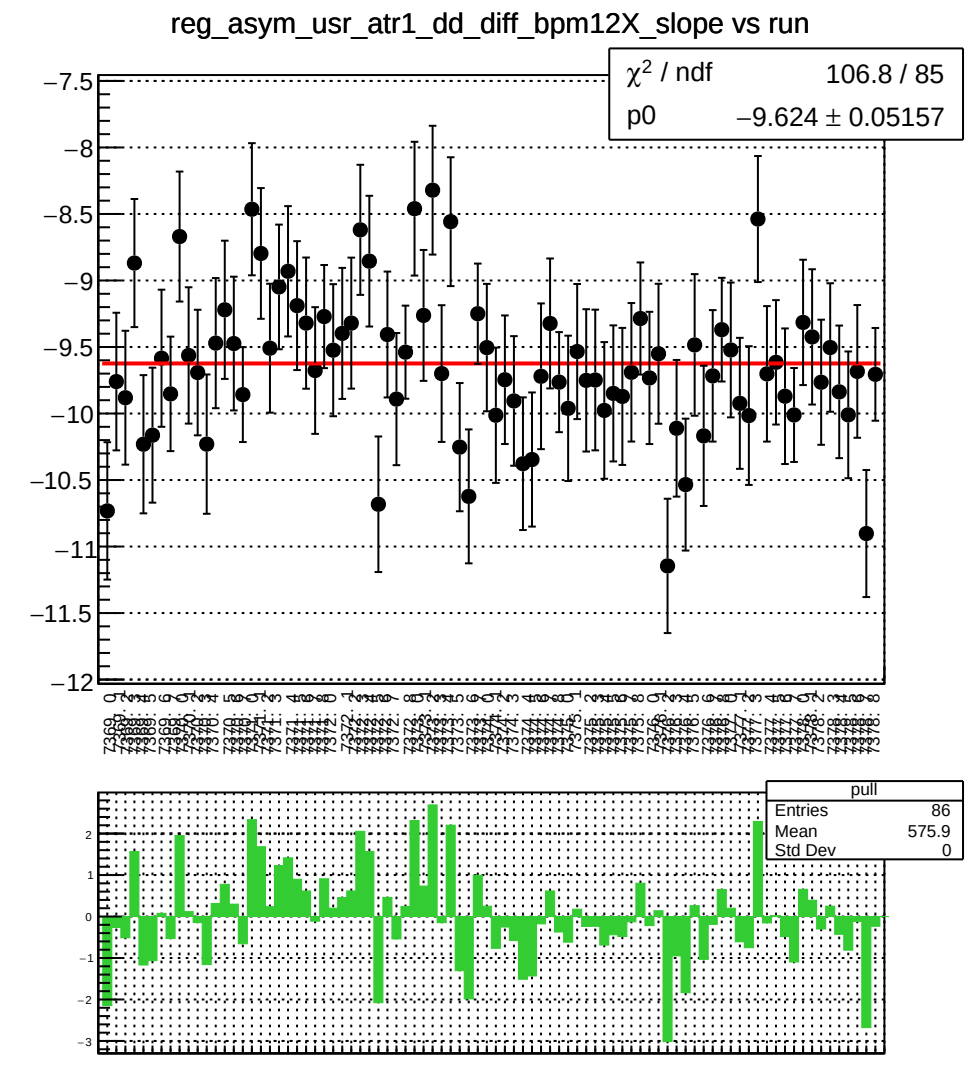

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 176.6 / 85
p0 −29.17 ± 0.06861
pull
Entries 86
Mean −1119
Std Dev 0
pull1D
Entries 86
Mean 0.01798
Std Dev 1.433

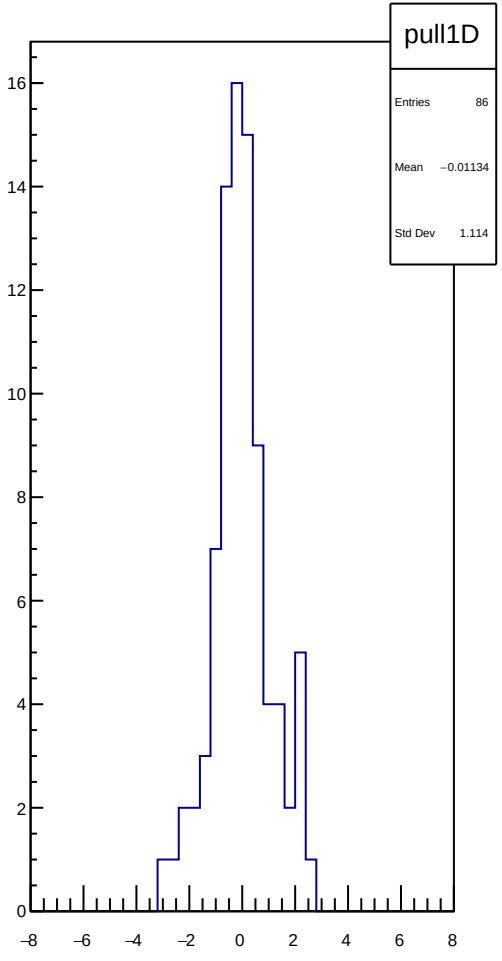

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 115.4 / 85
p0 18.52 ± 0.985
pull
Entries 86
Mean 88.58
Std Dev 0
pull1D
Entries 86
Mean −0.06825
Std Dev 1.156

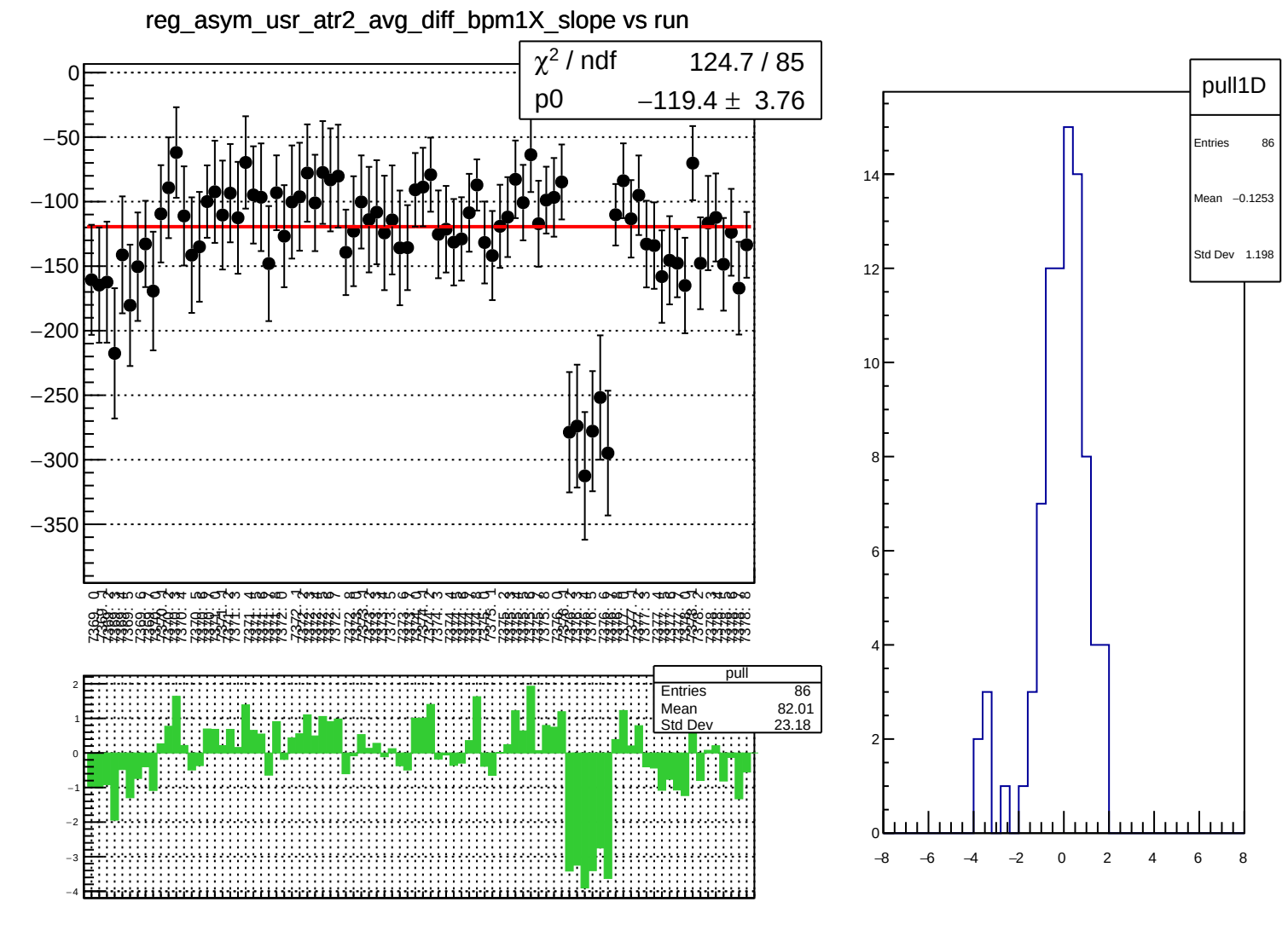

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.97 / 85
p0 −18.93 ± 1.081
pull
Entries 86
Mean 120.1
Std Dev 0
pull1D
Entries 86
Mean 0.01276
Std Dev 0.9762

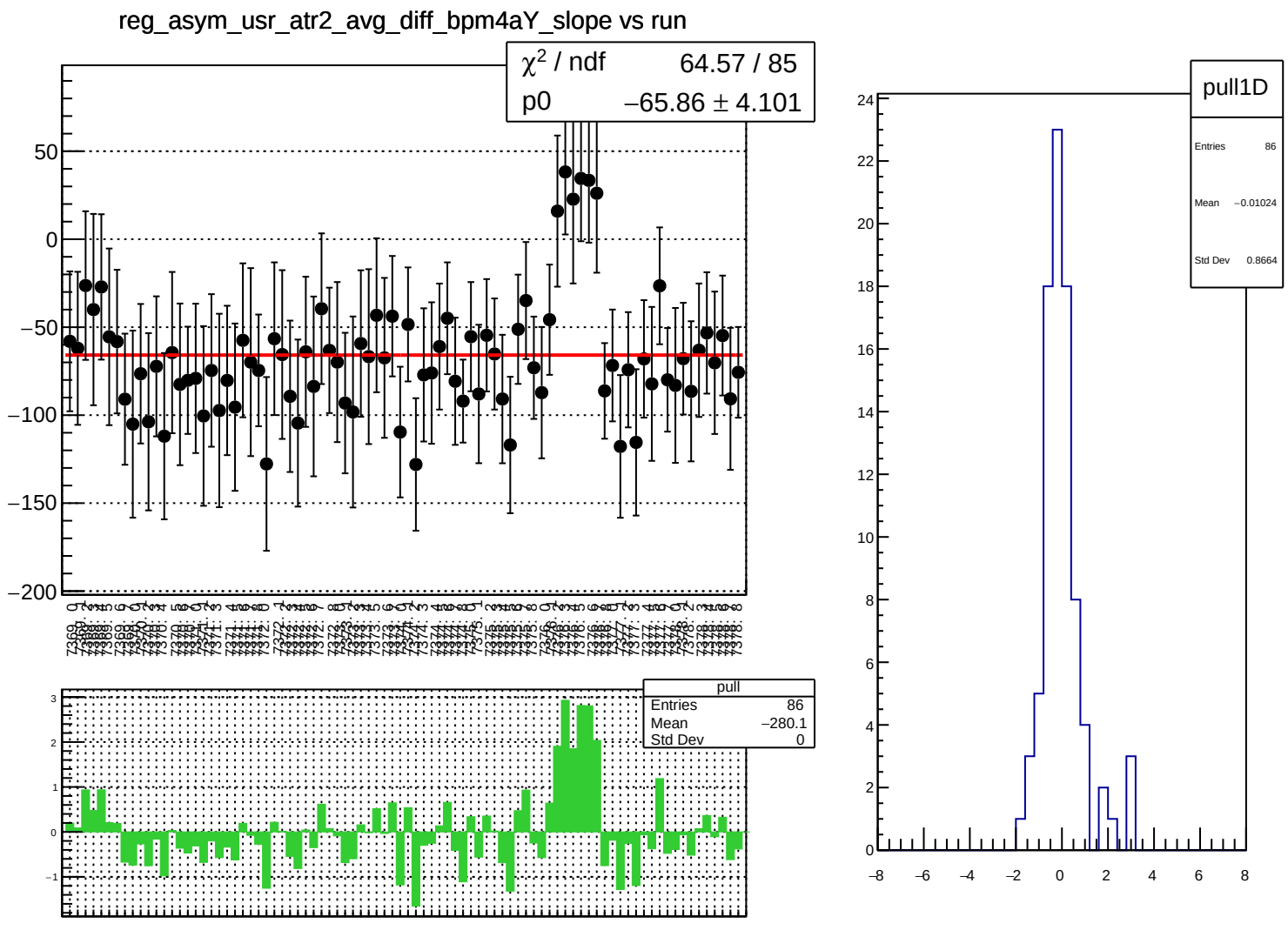

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 121.5 / 85
p0 39.49 ± 1.022
pull
Entries 86
Mean 89.11
Std Dev 0
pull1D
Entries 86
Mean 0.07023
Std Dev 1.187

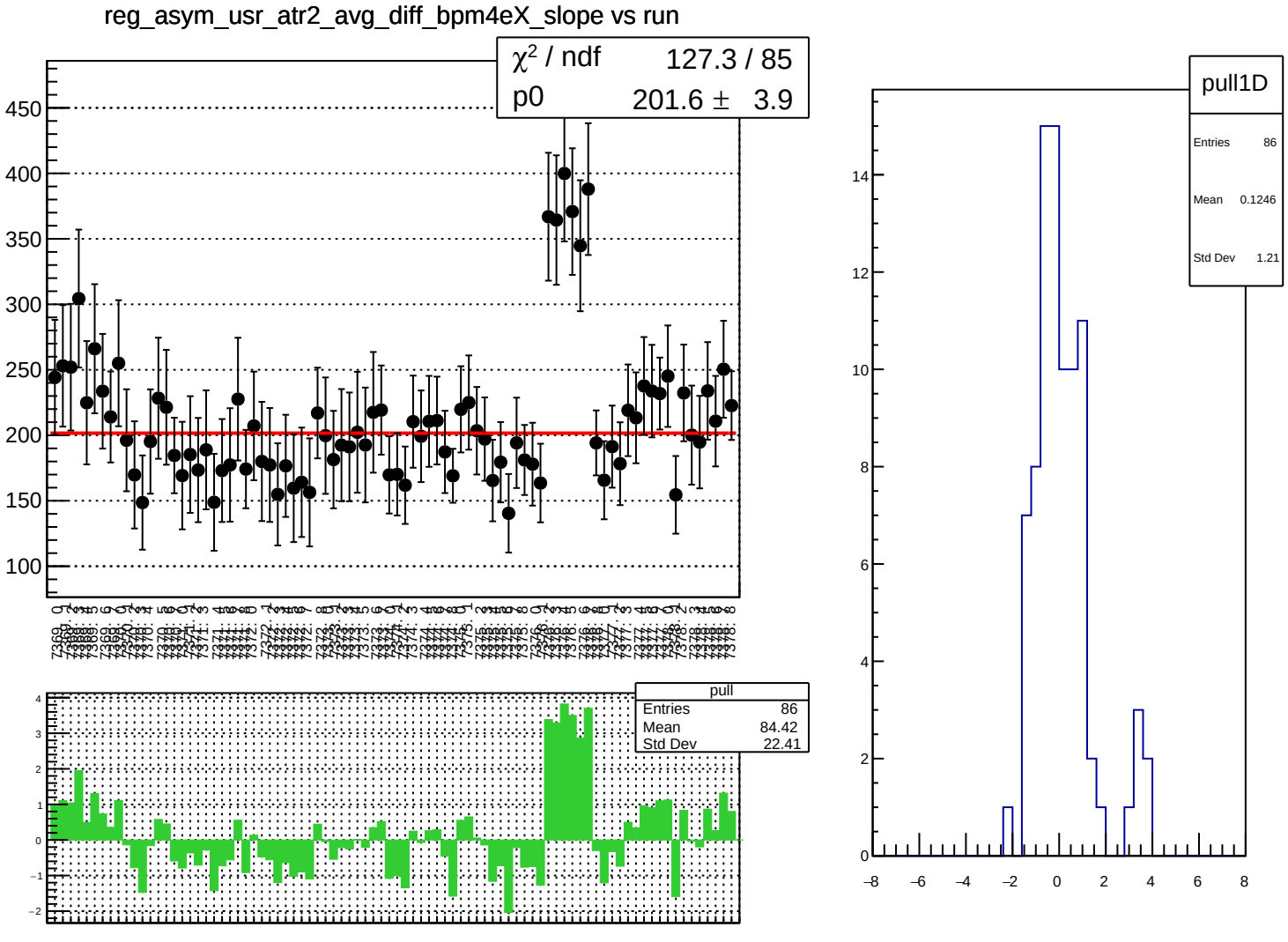

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.3 / 85
p0 31.85 ± 1.148
pull
Entries 86
Mean 59.33
Std Dev 57.76
pull1D
Entries 86
Mean −0.01683
Std Dev 0.9722

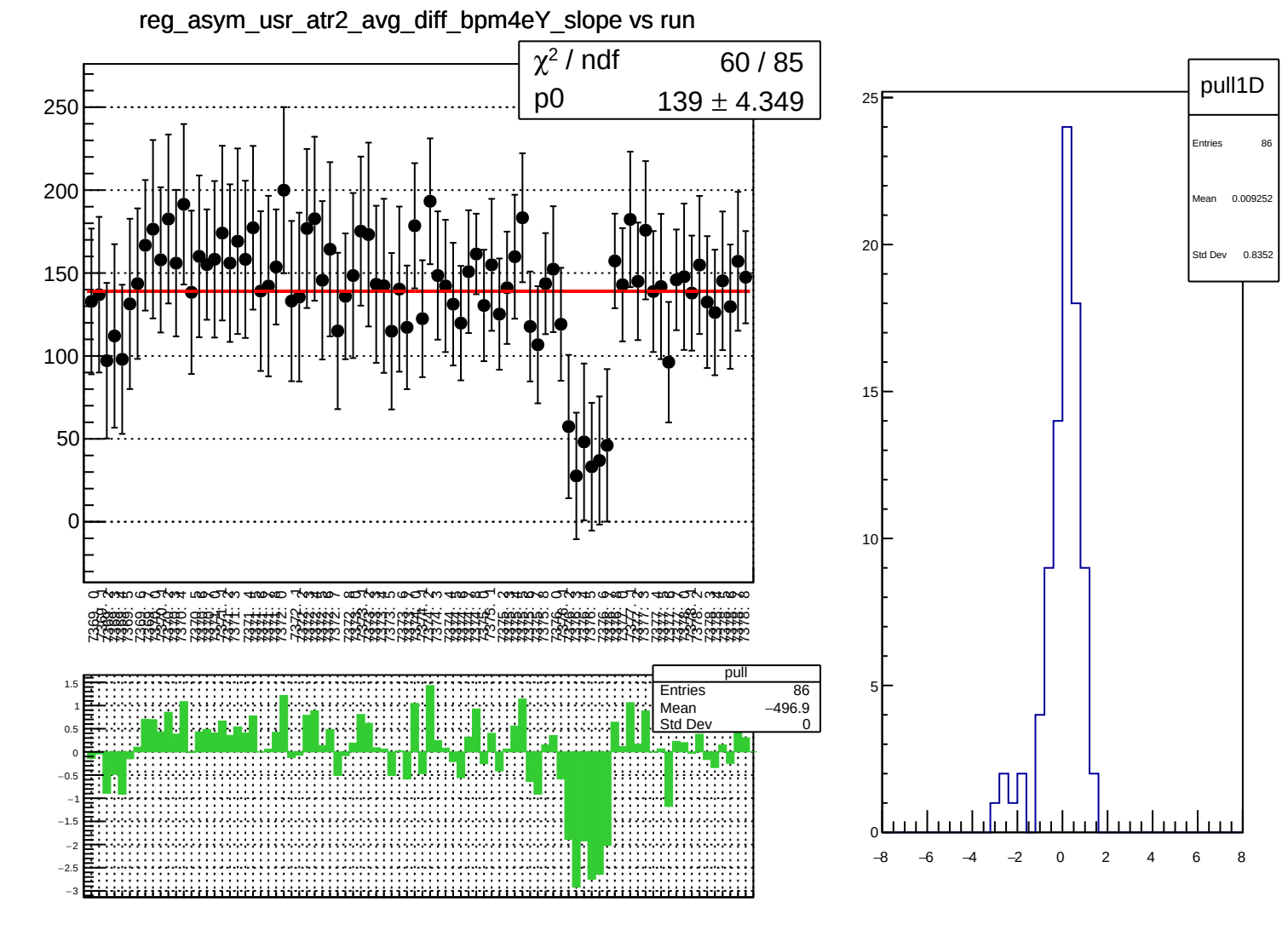

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 106.8 / 85
p0 −9.624 ± 0.05157
pull
Entries 86
Mean 575.9
Std Dev 0

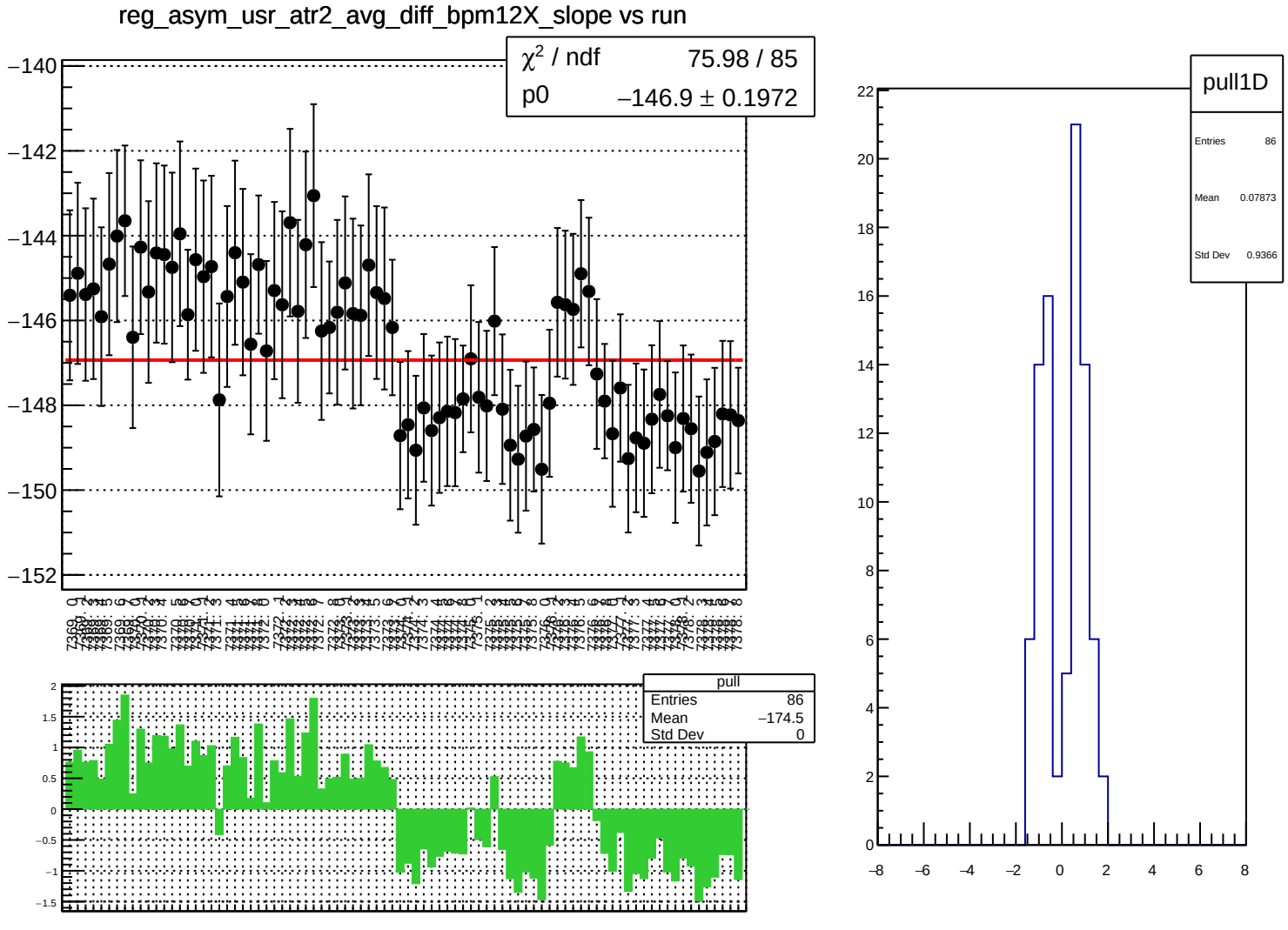

pull1D
Entries 86
Mean −0.01134
Std Dev 1.114

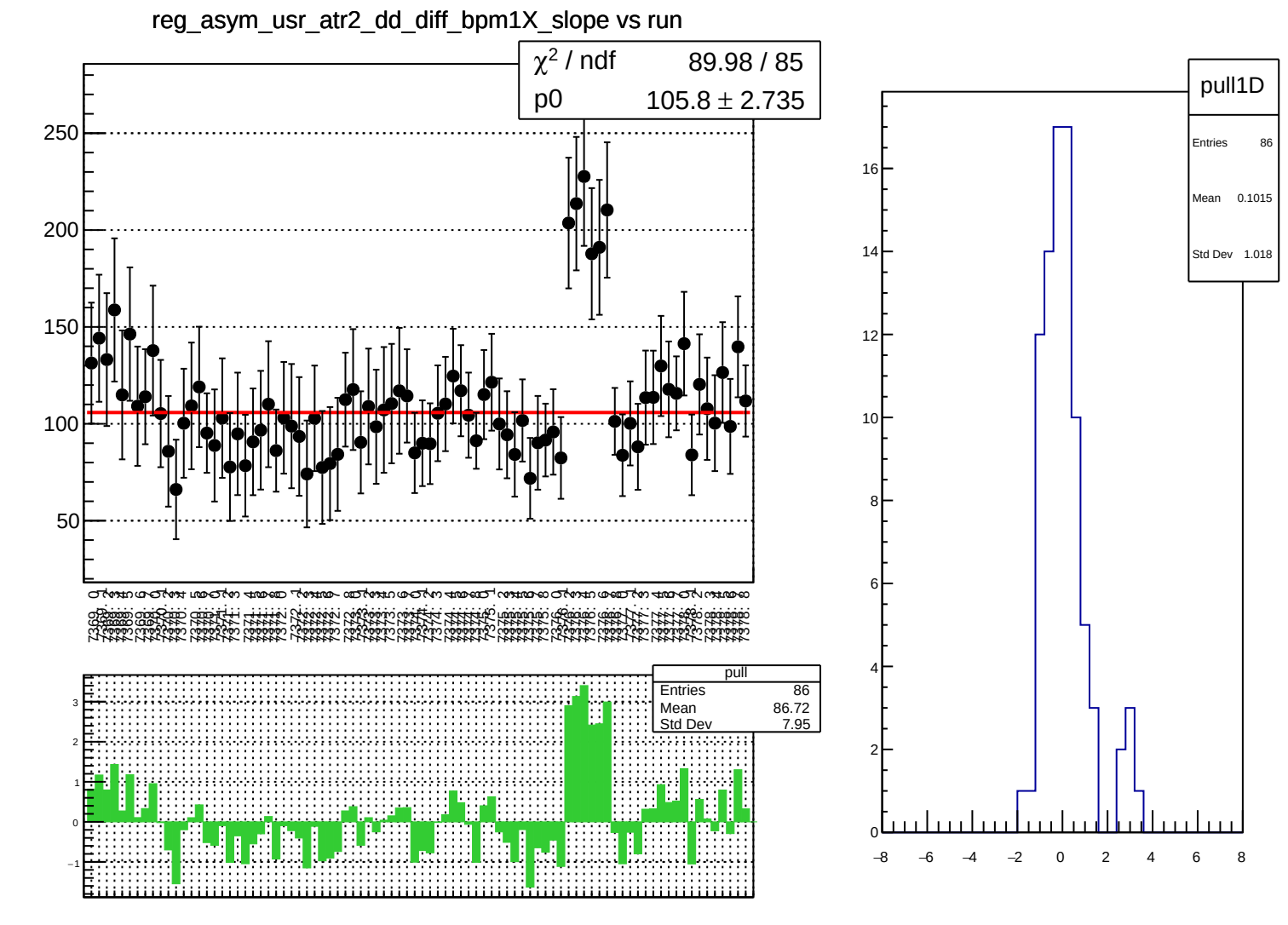

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 124.7 / 85
p0 −119.4 ± 3.76
pull
Entries 86
Mean 82.01
Std Dev 23.18
pull1D
Entries 86
Mean −0.1253
Std Dev 1.198

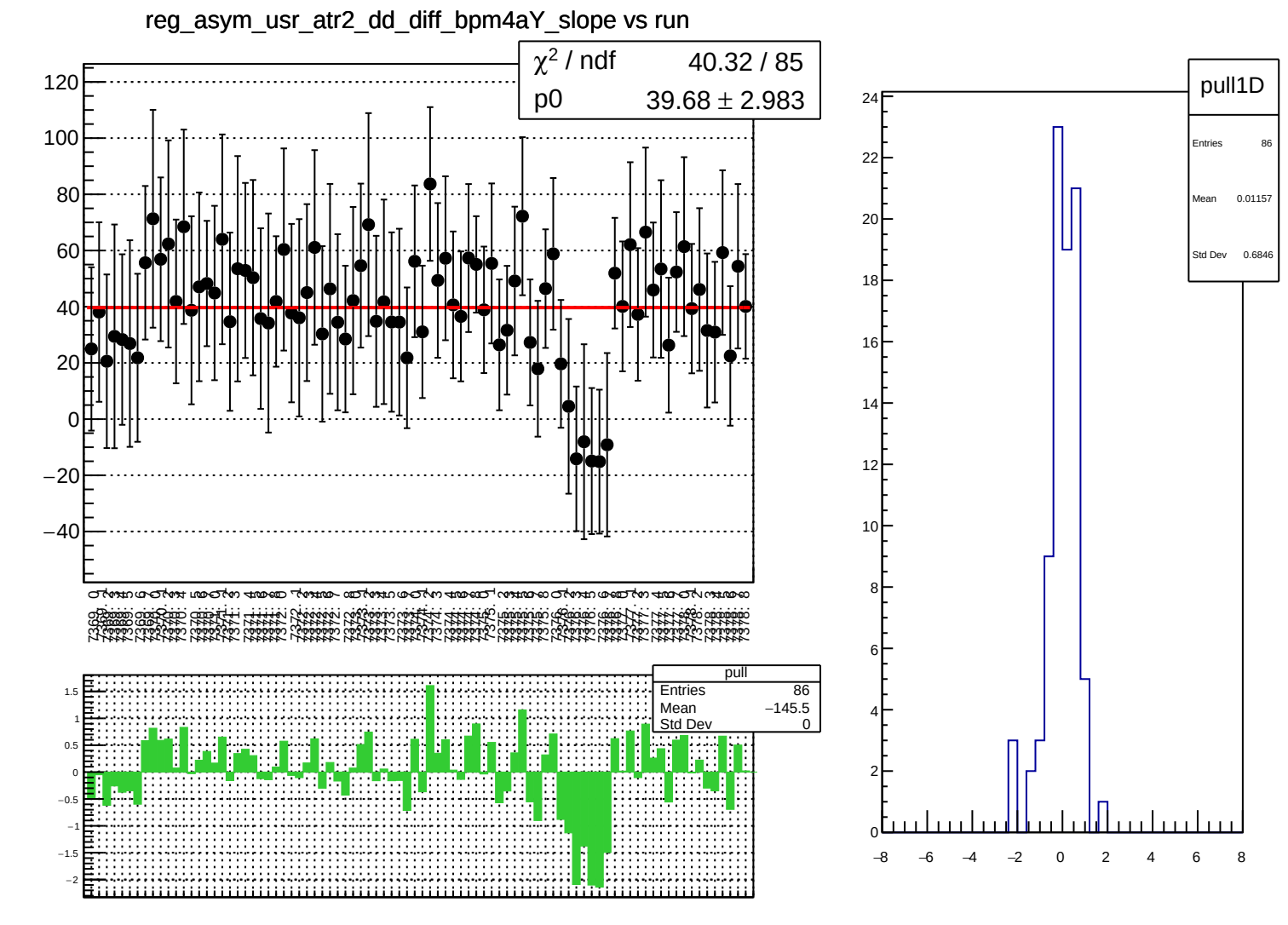

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.57 / 85
p0 −65.86 ± 4.101
pull
Entries 86
Mean −280.1
Std Dev 0
pull1D
Entries 86
Mean −0.01024
Std Dev 0.8664

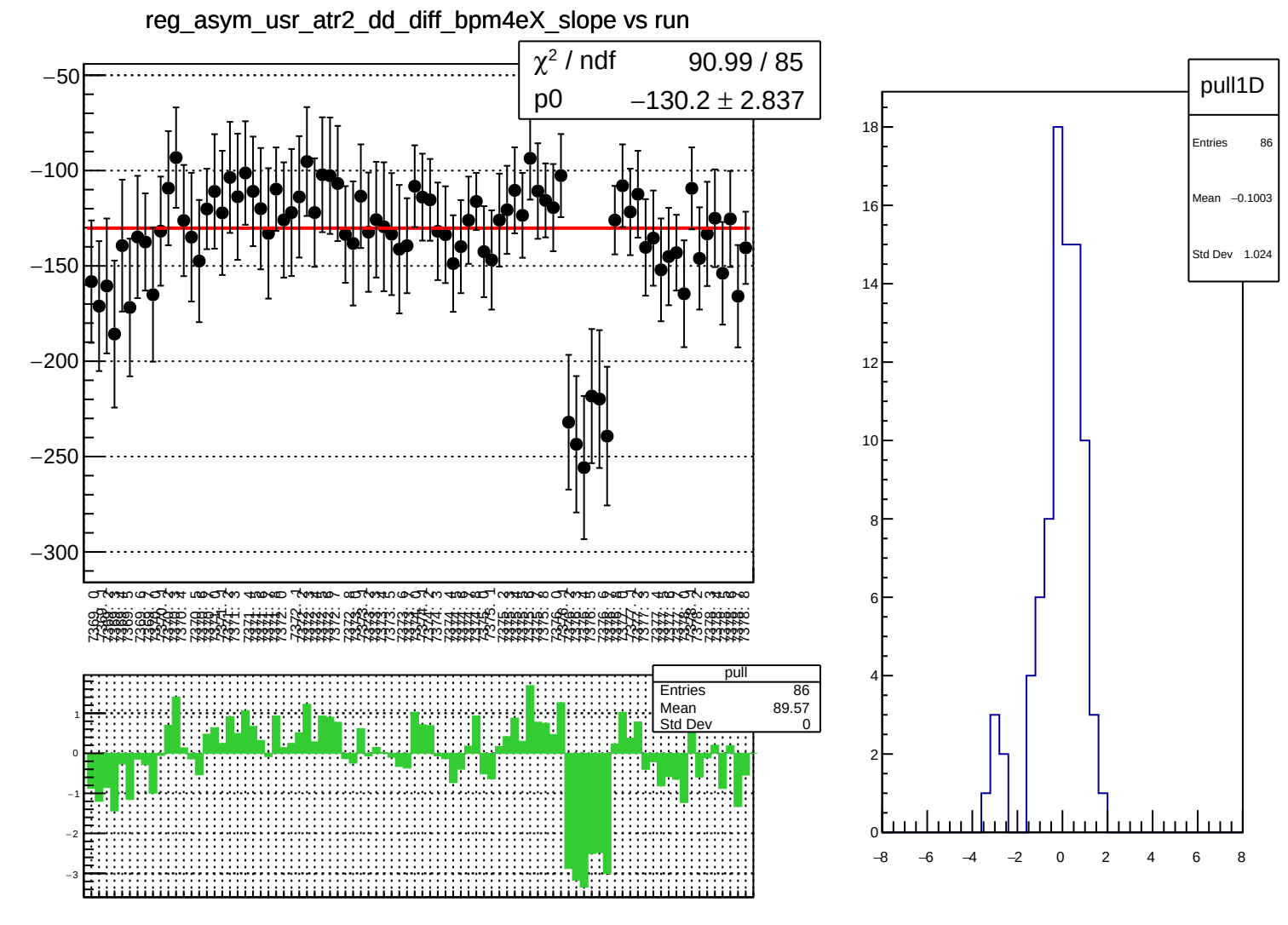

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 127.3 / 85
p0 201.6 ± 3.9
pull
Entries 86
Mean 84.42
Std Dev 22.41
pull1D
Entries 86
Mean 0.1246
Std Dev 1.21

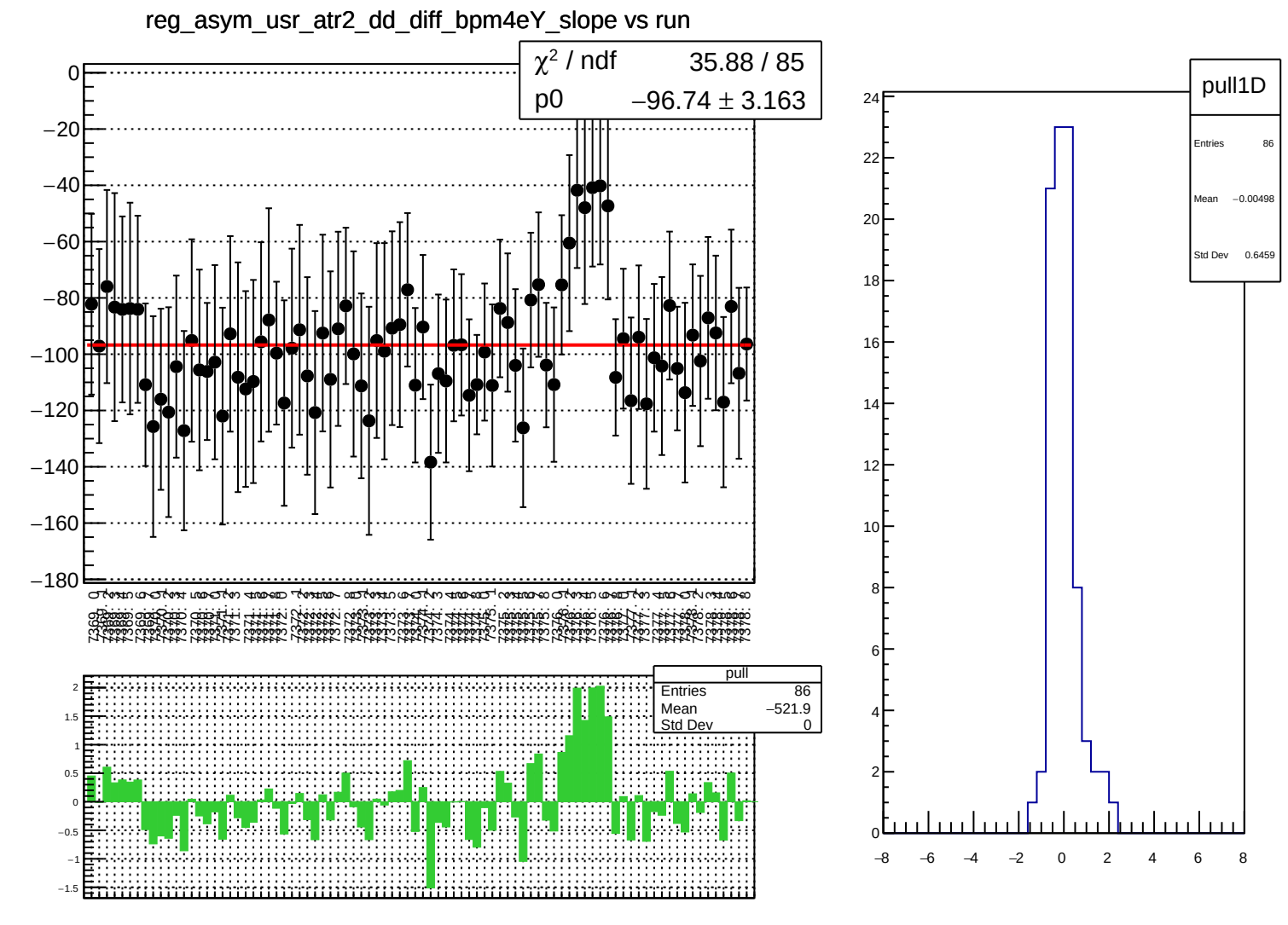

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 60 / 85
p0 139 ± 4.349
pull
Entries 86
Mean −496.9
Std Dev 0
pull1D
Entries 86
Mean 0.009252
Std Dev 0.8352

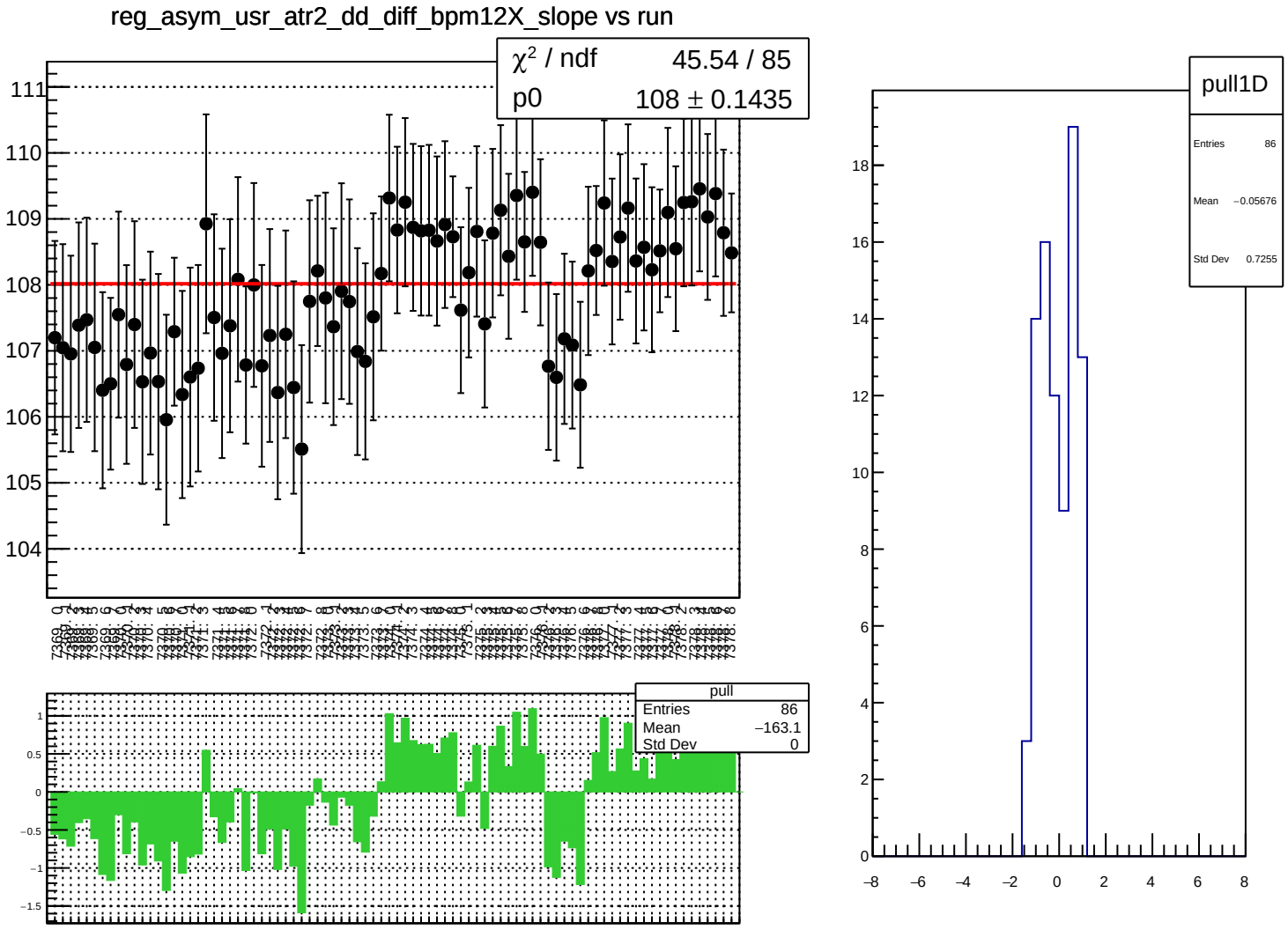

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 75.98 / 85
p0 −146.9 ± 0.1972
pull
Entries 86
Mean −174.5
Std Dev 0
pull1D
Entries 86
Mean 0.07873
Std Dev 0.9366

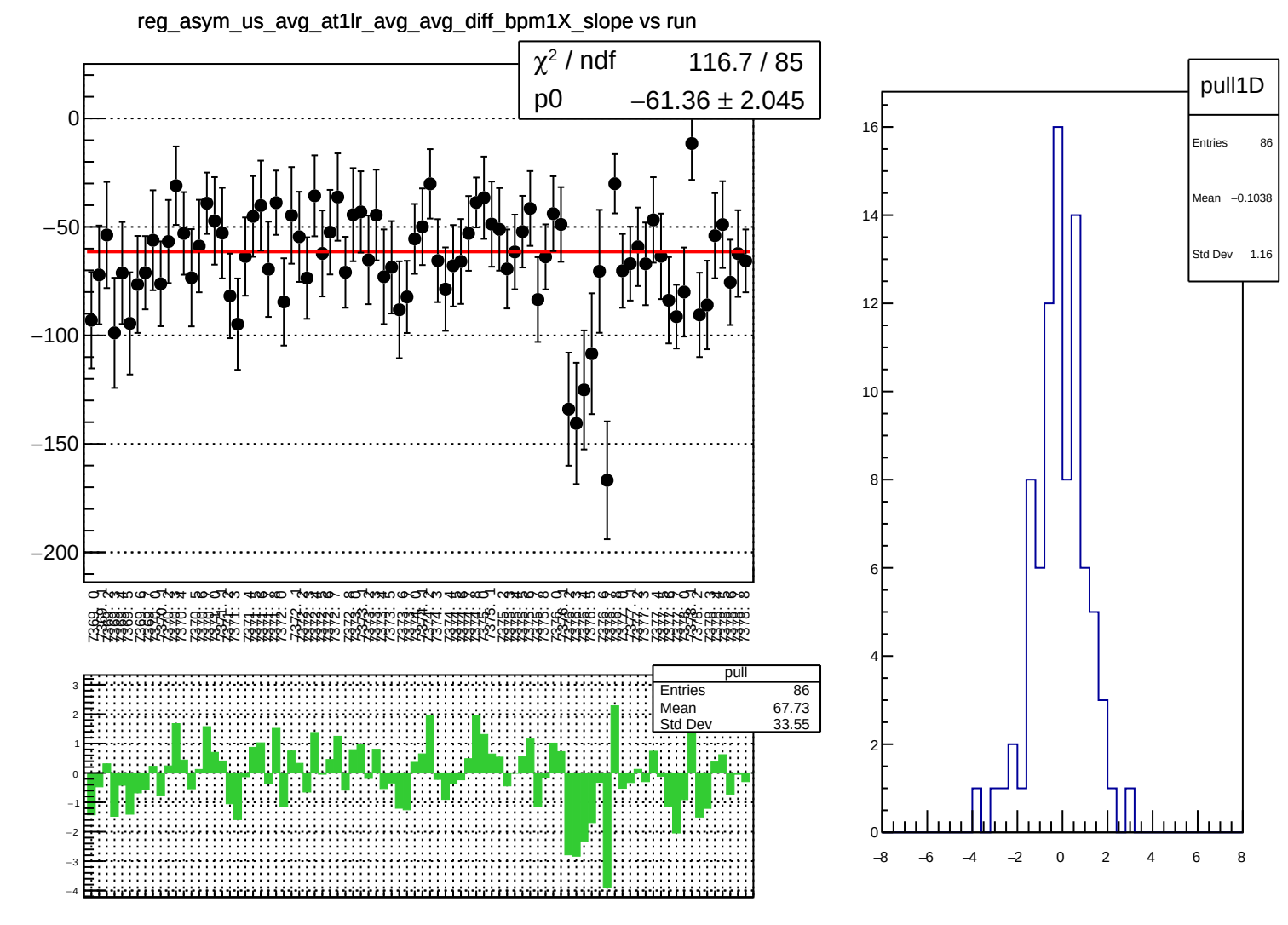

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 89.98 / 85
p0 105.8 ± 2.735
250
200
150
100
50
pull
Entries 86
Mean 86.72
Std Dev 7.95
3
2
1
0
−1
pull1D
Entries 86
Mean 0.1015
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

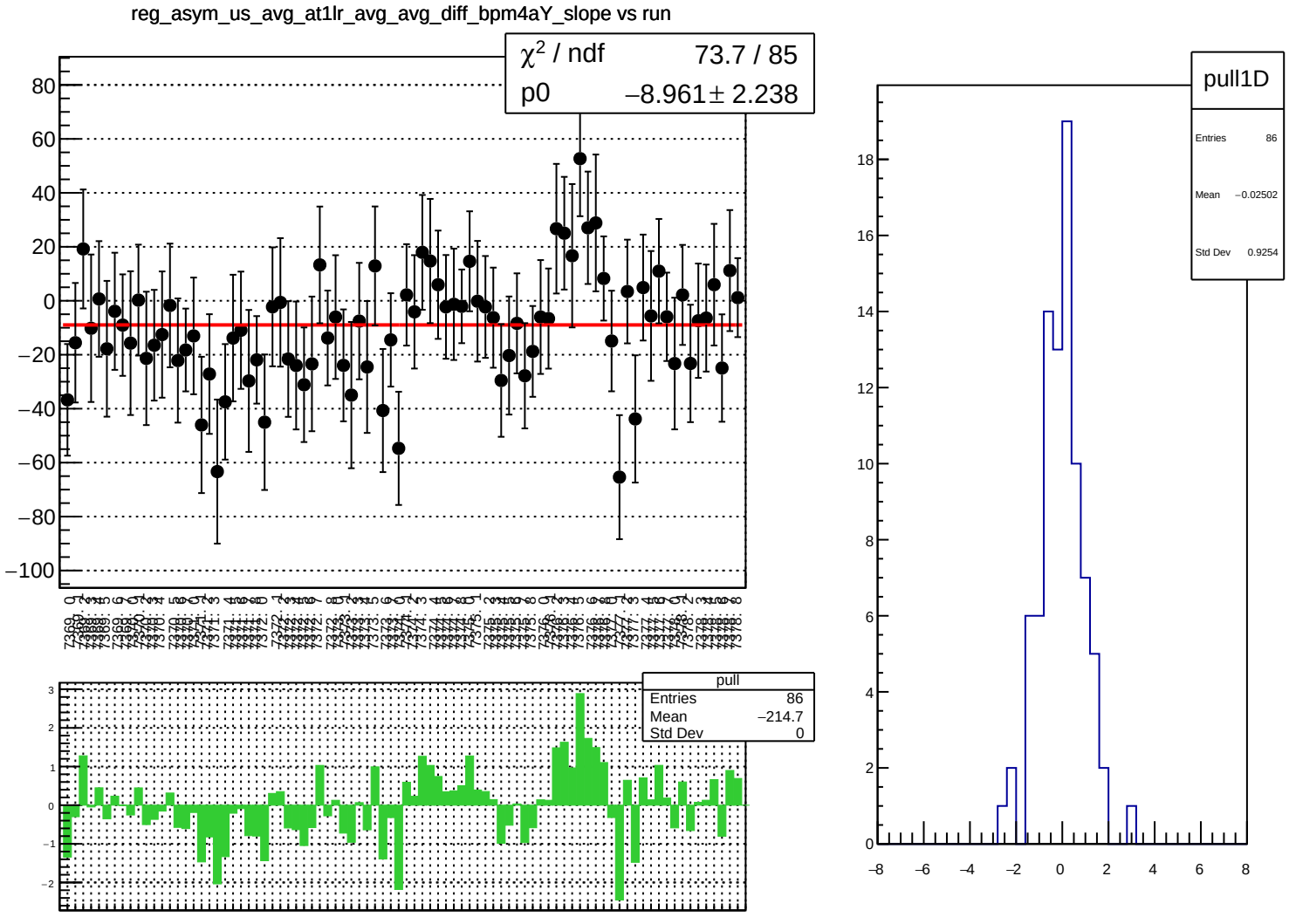

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.32 / 85
p0 39.68 ± 2.983
pull
Entries 86
Mean −145.5
Std Dev 0
pull1D
Entries 86
Mean 0.01157
Std Dev 0.6846

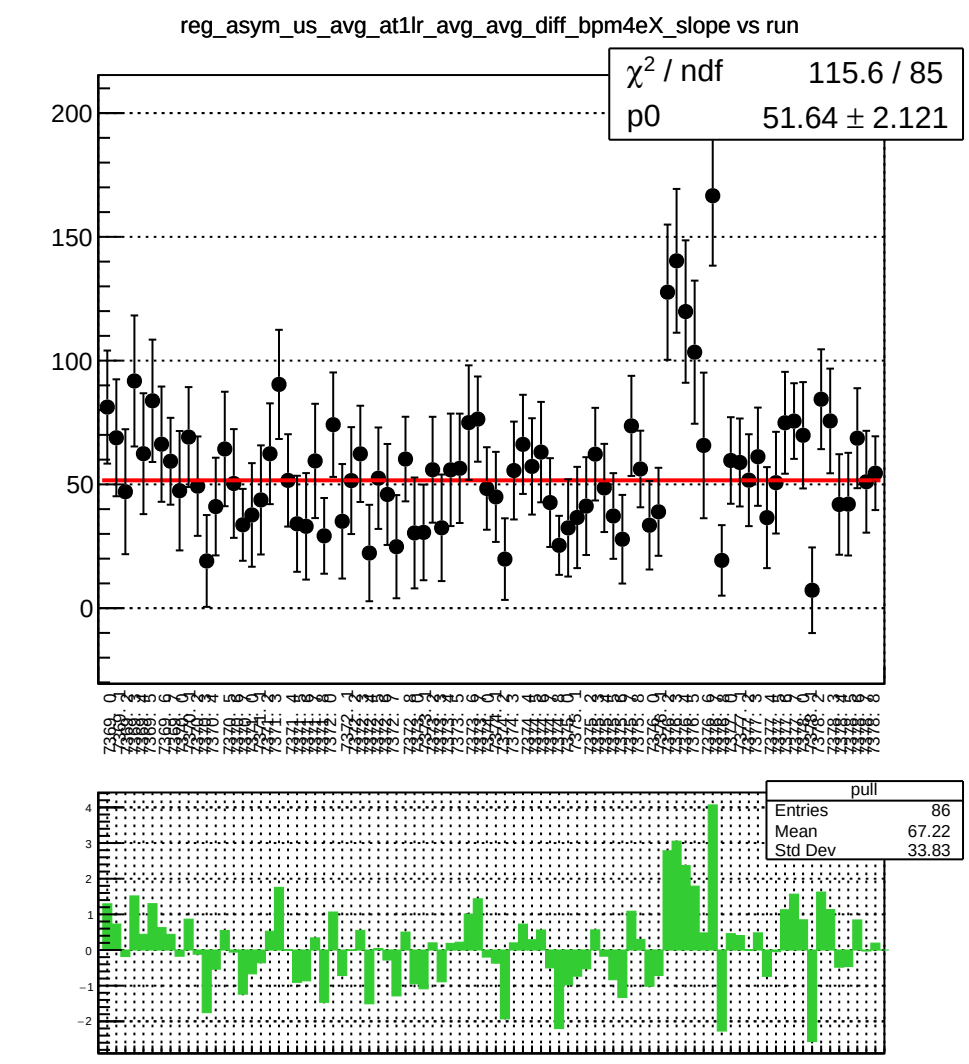

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 90.99 / 85
p0 −130.2 ± 2.837
pull
Entries 86
Mean 89.57
Std Dev 0
pull1D
Entries 86
Mean −0.1003
Std Dev 1.024

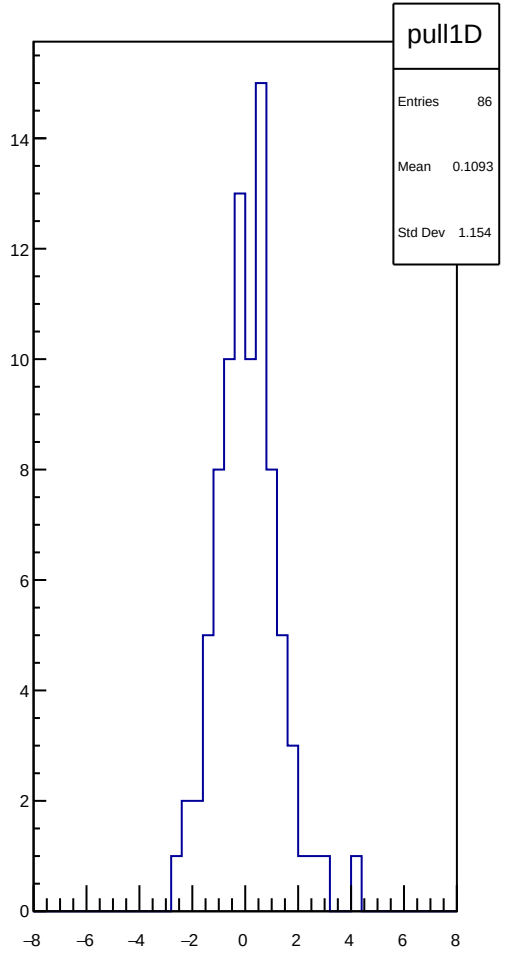

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.88 / 85
p0 −96.74 ± 3.163
pull
Entries 86
Mean −521.9
Std Dev 0
pull1D
Entries 86
Mean −0.00498
Std Dev 0.6459

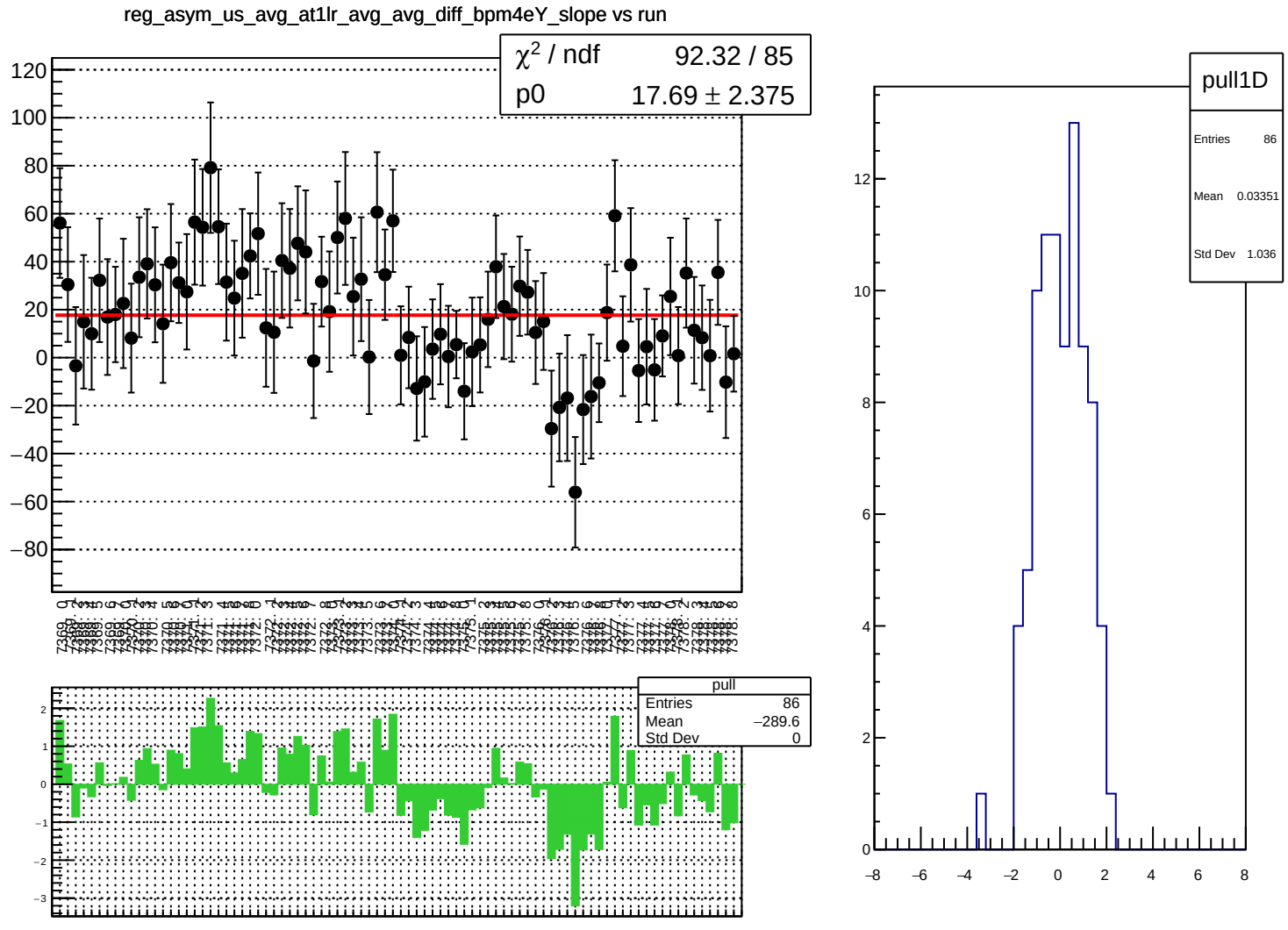

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 45.54 / 85
p0 108 ± 0.1435
pull
Entries 86
Mean −163.1
Std Dev 0
pull1D
Entries 86
Mean −0.05676
Std Dev 0.7255

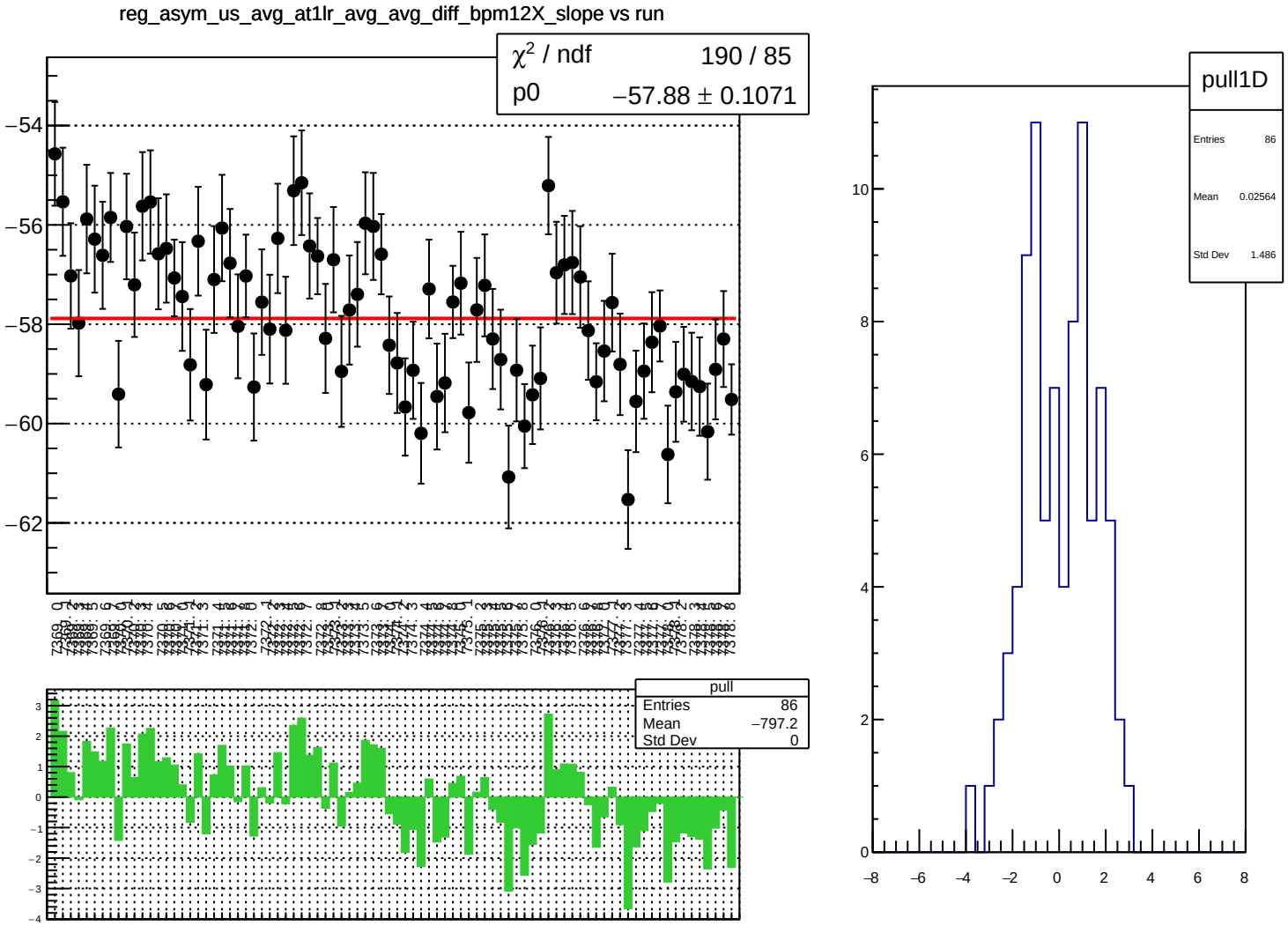

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 116.7 / 85
p0 −61.36 ± 2.045
pull
Entries 86
Mean 67.73
Std Dev 33.55
pull1D
Entries 86
Mean −0.1038
Std Dev 1.16

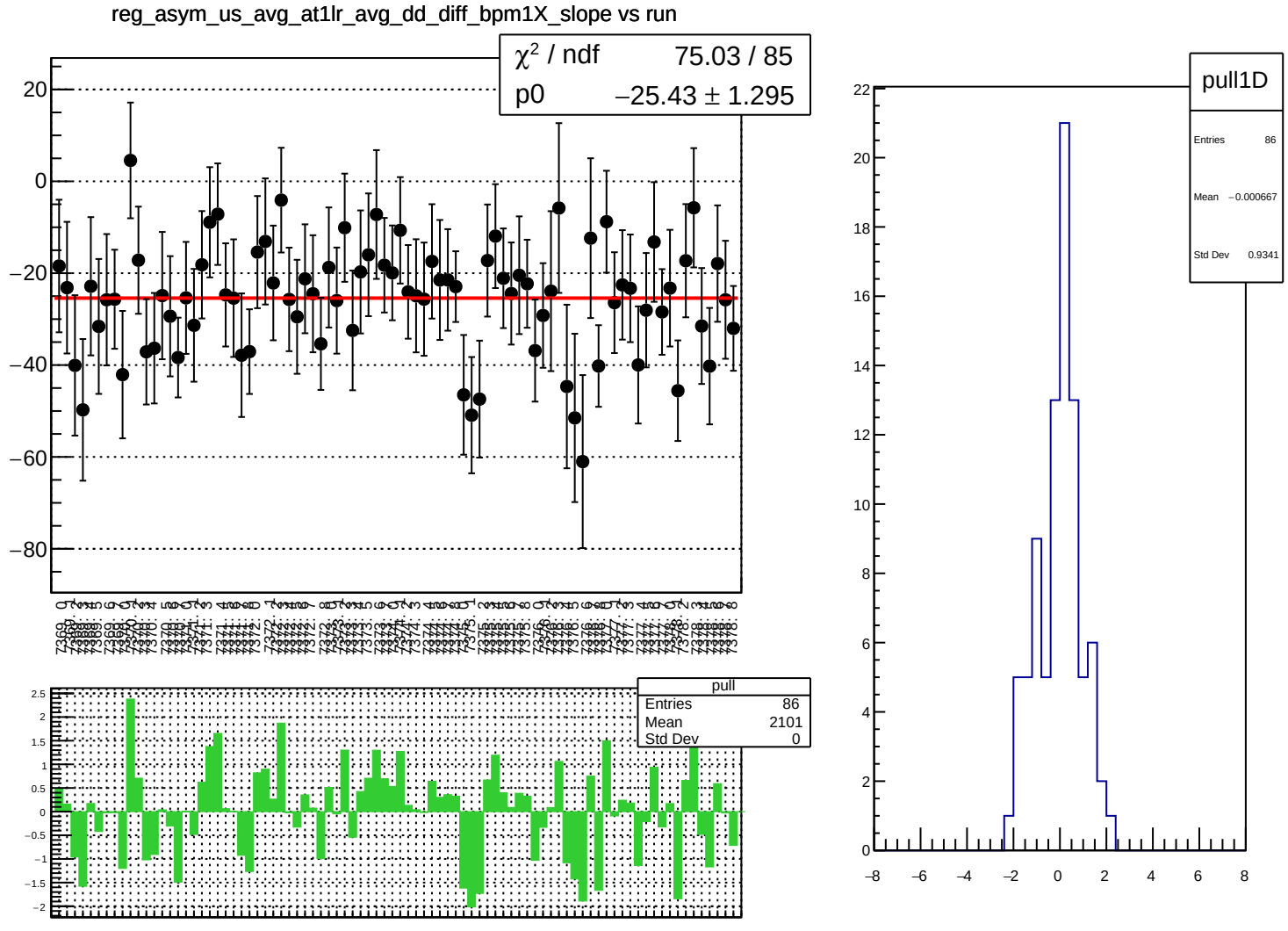

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.7 / 85
p0 −8.961 ± 2.238
pull
Entries 86
Mean −214.7
Std Dev 0
pull1D
Entries 86
Mean −0.02502
Std Dev 0.9254

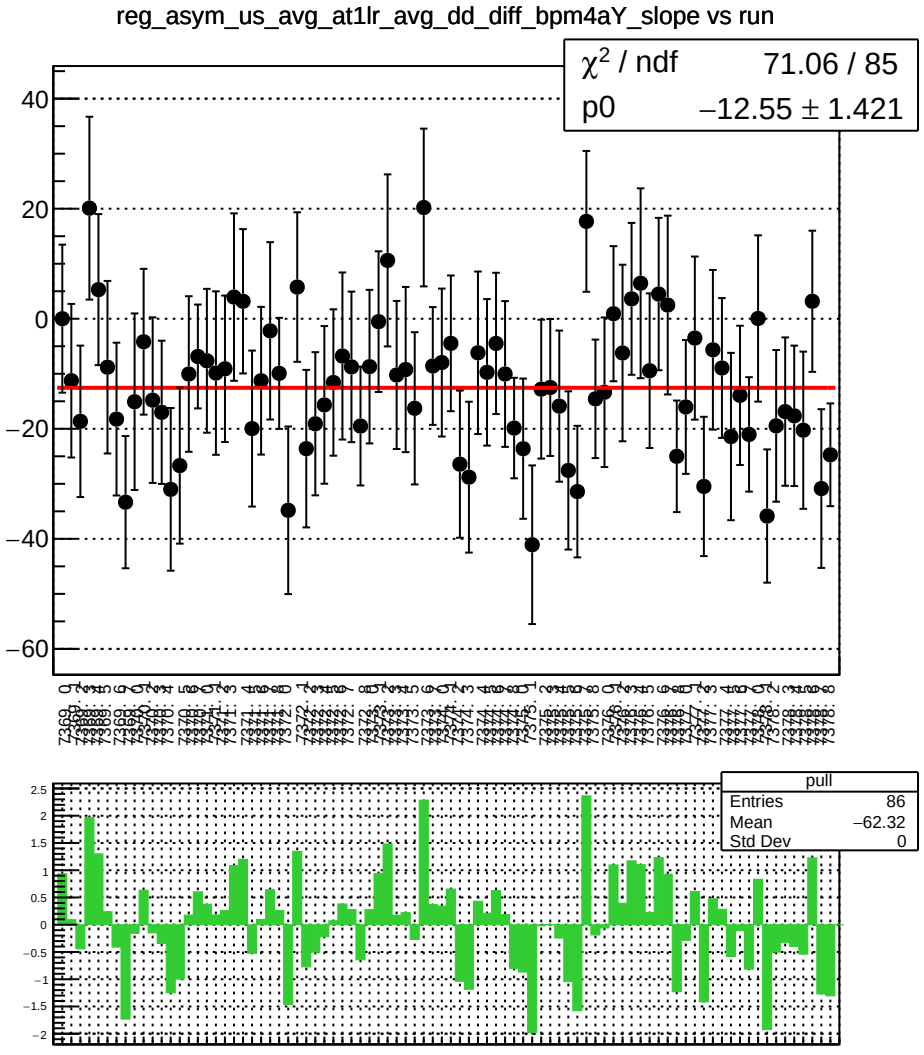

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 115.6 / 85
p0 51.64 ± 2.121
200
150
100
50
0
pull
Entries 86
Mean 67.22
Std Dev 33.83
4
3
2
1
0
−1
−2

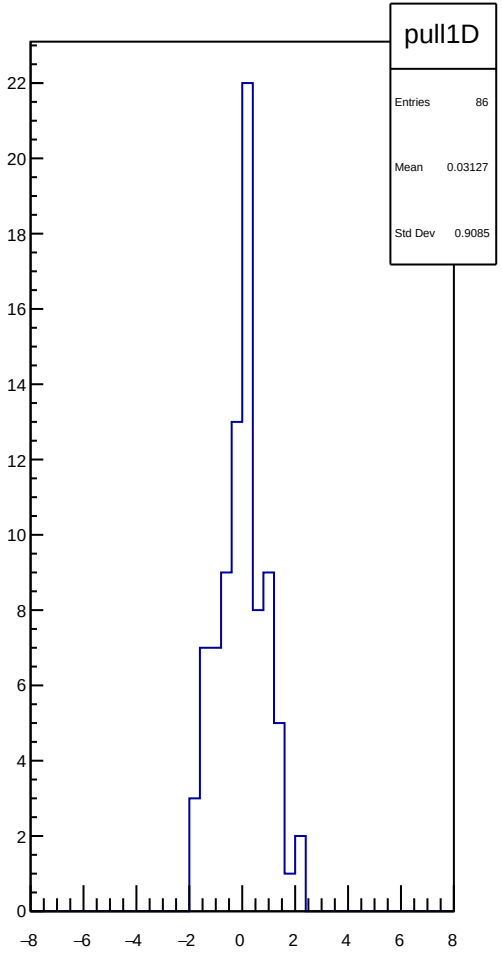

pull1D
Entries 86
Mean 0.1093
Std Dev 1.154
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

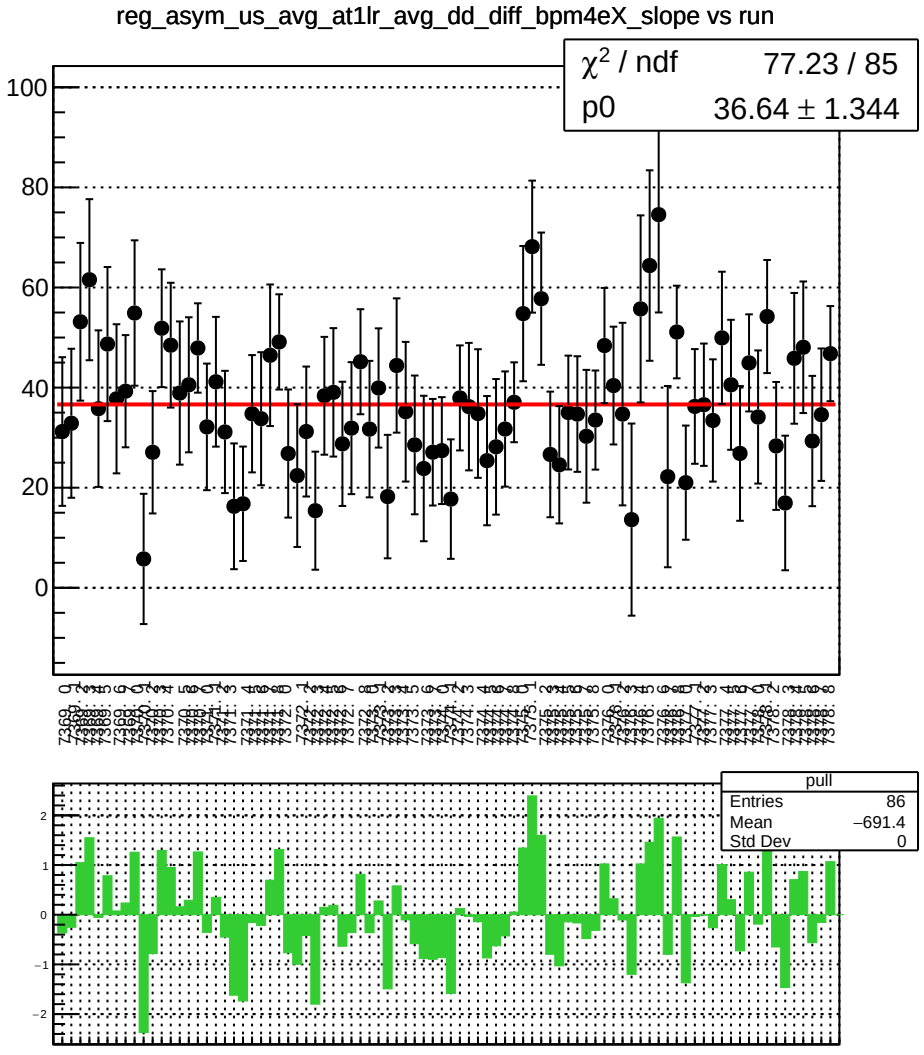

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 92.32 / 85
p0 17.69 ± 2.375
pull
Entries 86
Mean −289.6
Std Dev 0
pull1D
Entries 86
Mean 0.03351
Std Dev 1.036

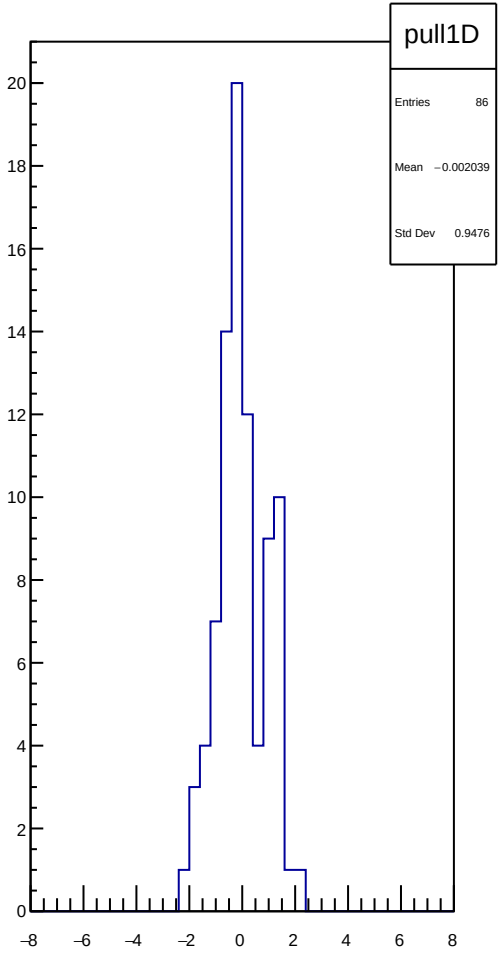

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 190 / 85
p0 −57.88 ± 0.1071
−54
−56
−58
−60
−62
pull
Entries 86
Mean −797.2
Std Dev 0
pull1D
Entries 86
Mean 0.02564
Std Dev 1.486

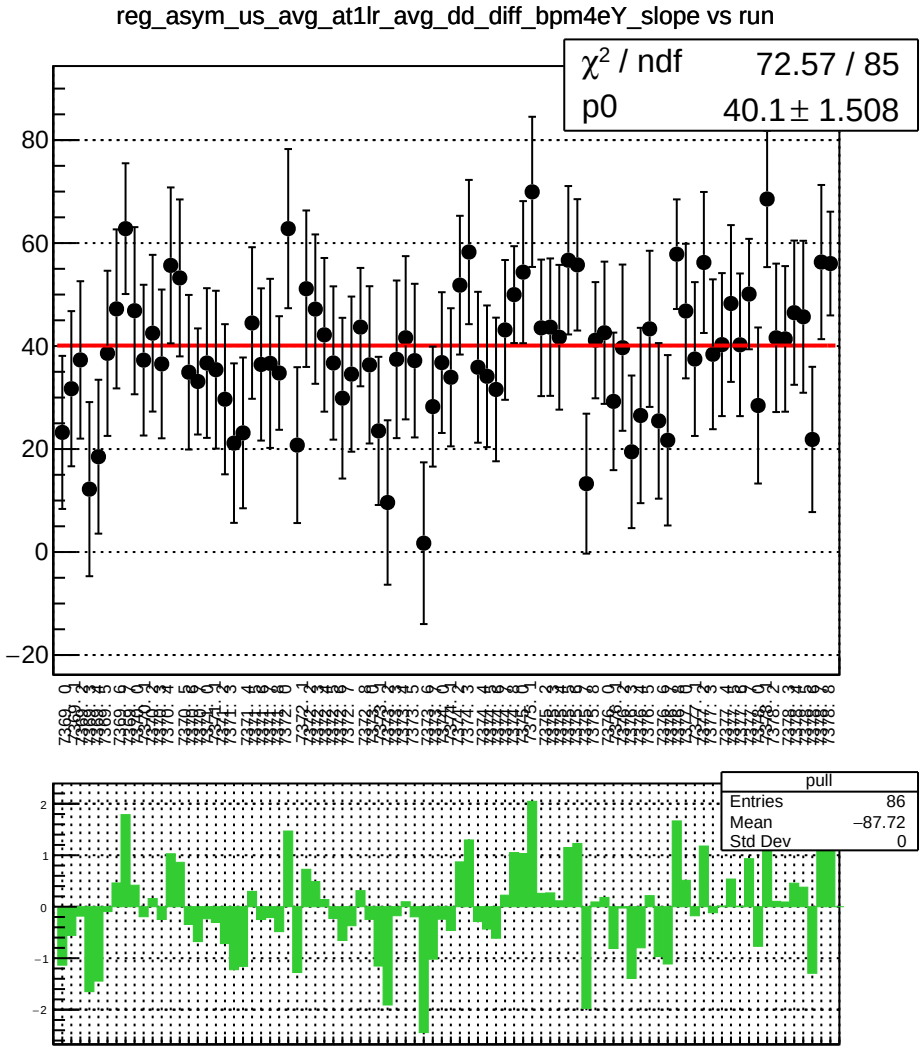

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 75.03 / 85
p0 −25.43 ± 1.295
pull
Entries 86
Mean 2101
Std Dev 0
pull1D
Entries 86
Mean −0.000667
Std Dev 0.9341

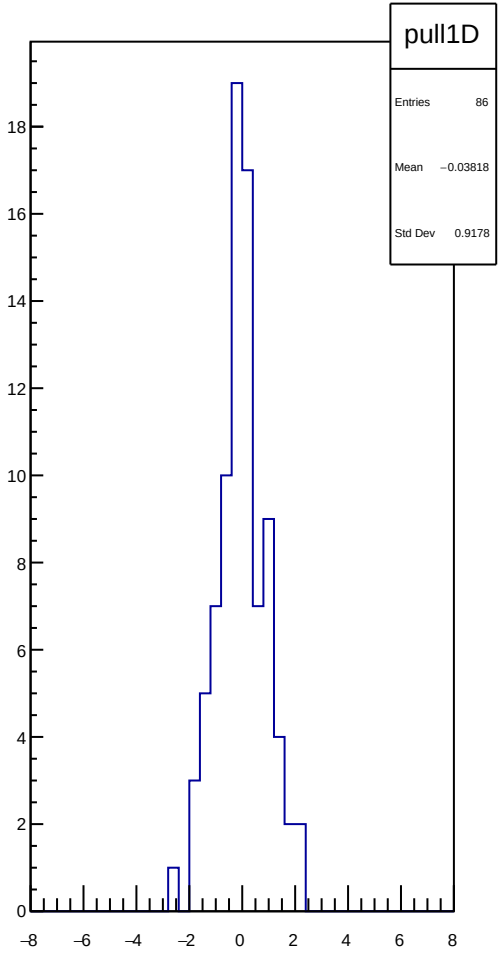

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.06 / 85
p0 −12.55 ± 1.421
pull
Entries 86
Mean −62.32
Std Dev 0

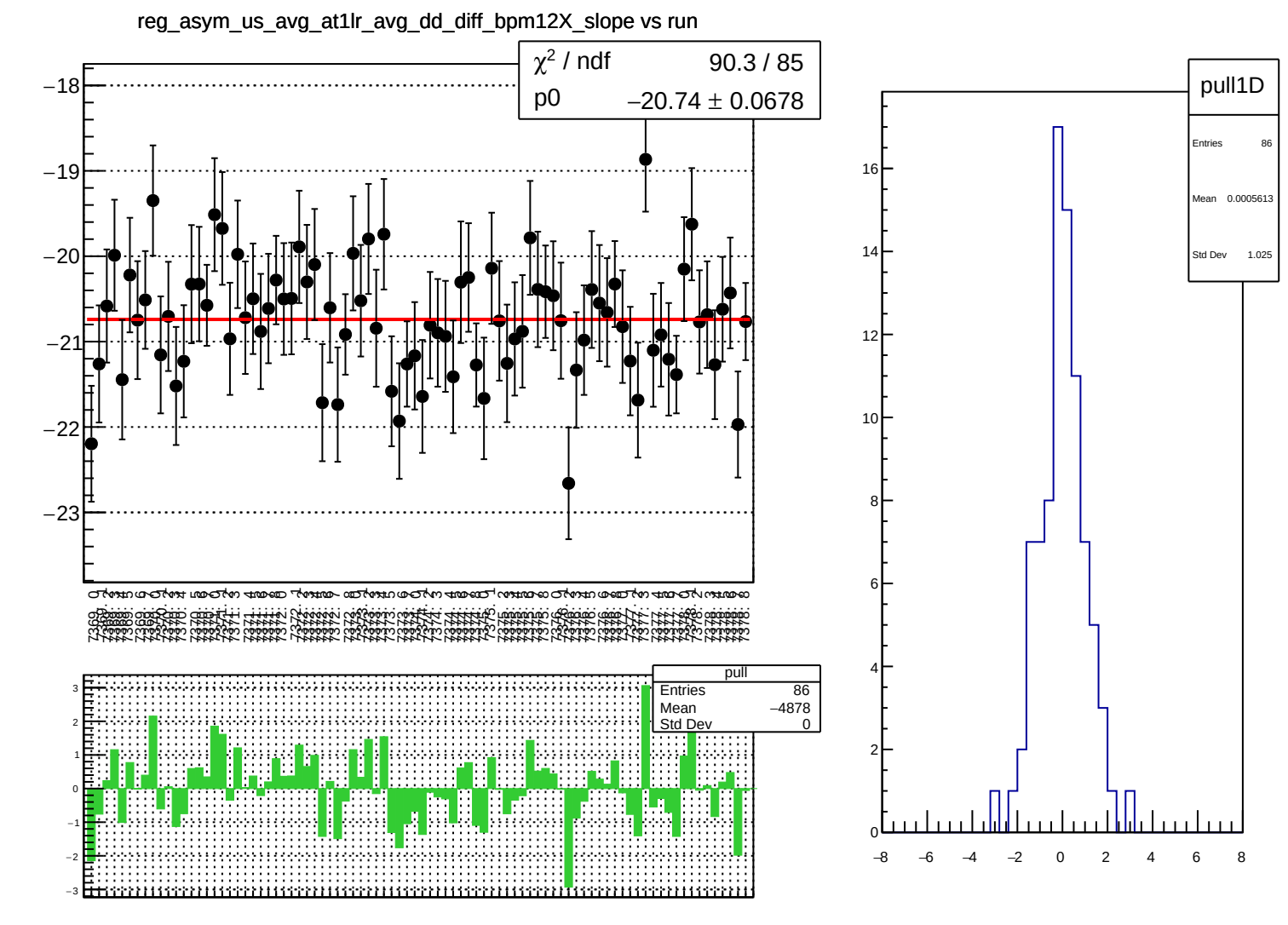

pull1D
Entries 86
Mean 0.03127
Std Dev 0.9085

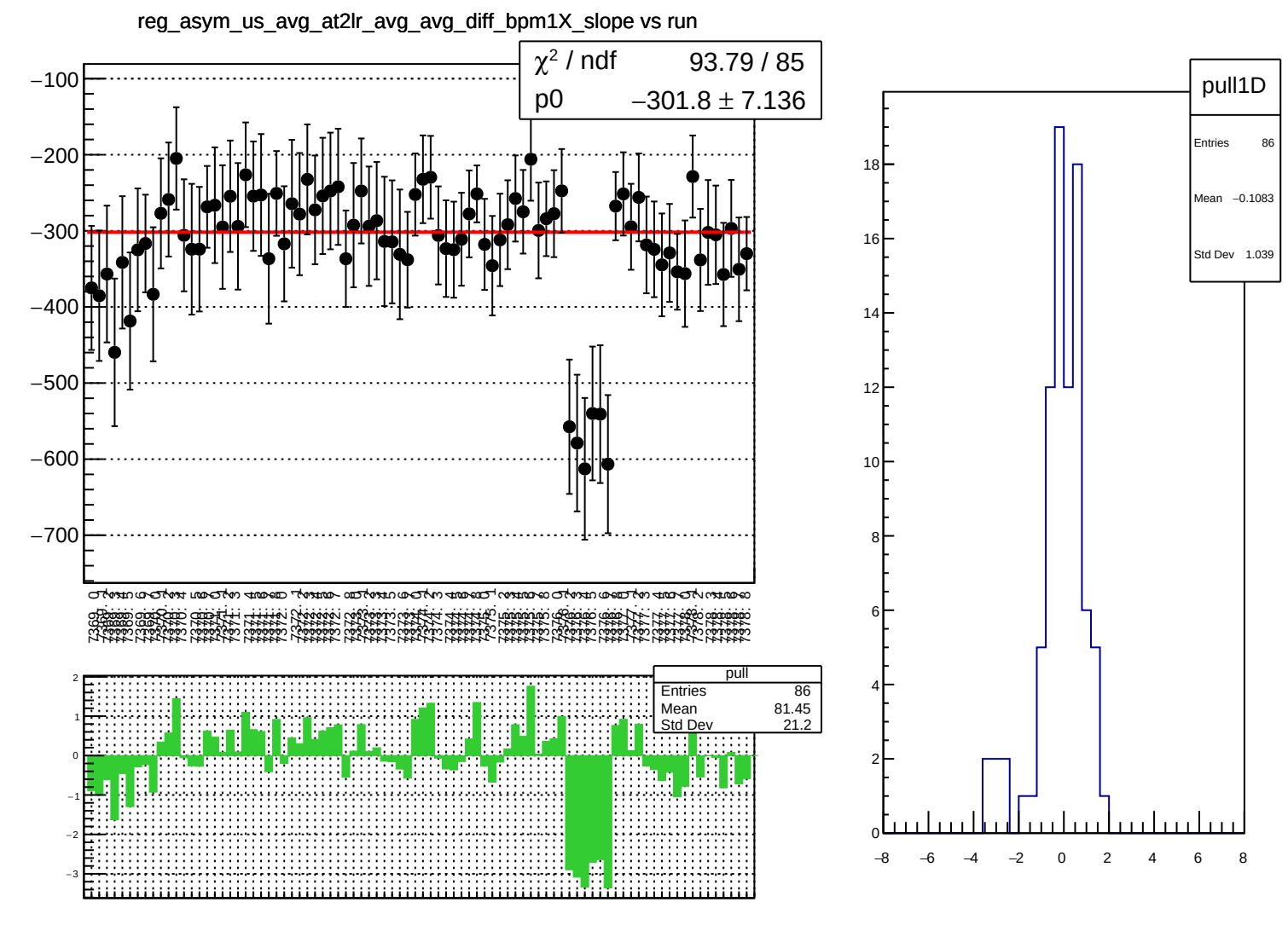

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.23 / 85
p0 36.64 ± 1.344
pull
Entries 86
Mean −691.4
Std Dev 0

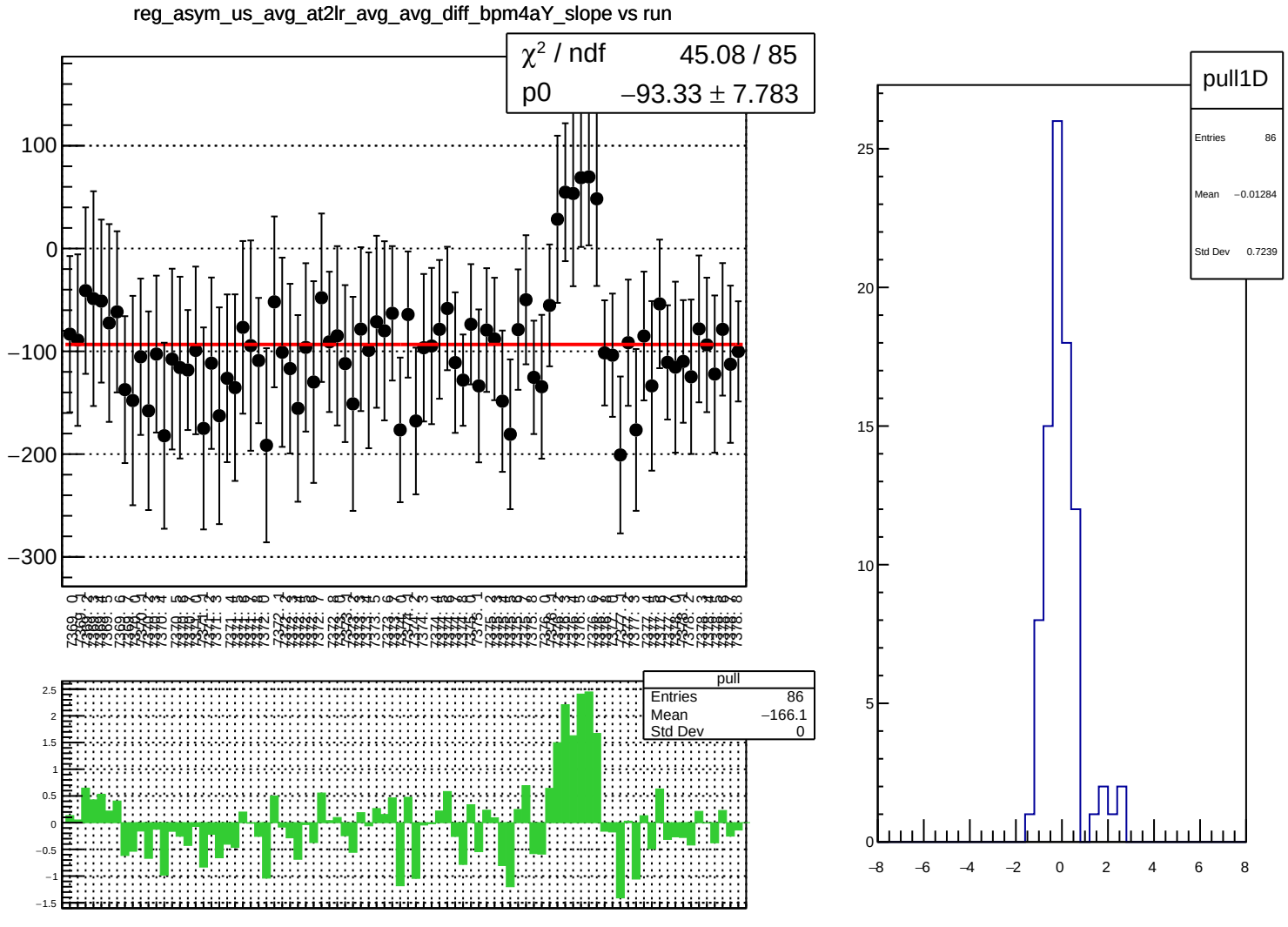

pull1D
Entries 86
Mean −0.002039
Std Dev 0.9476

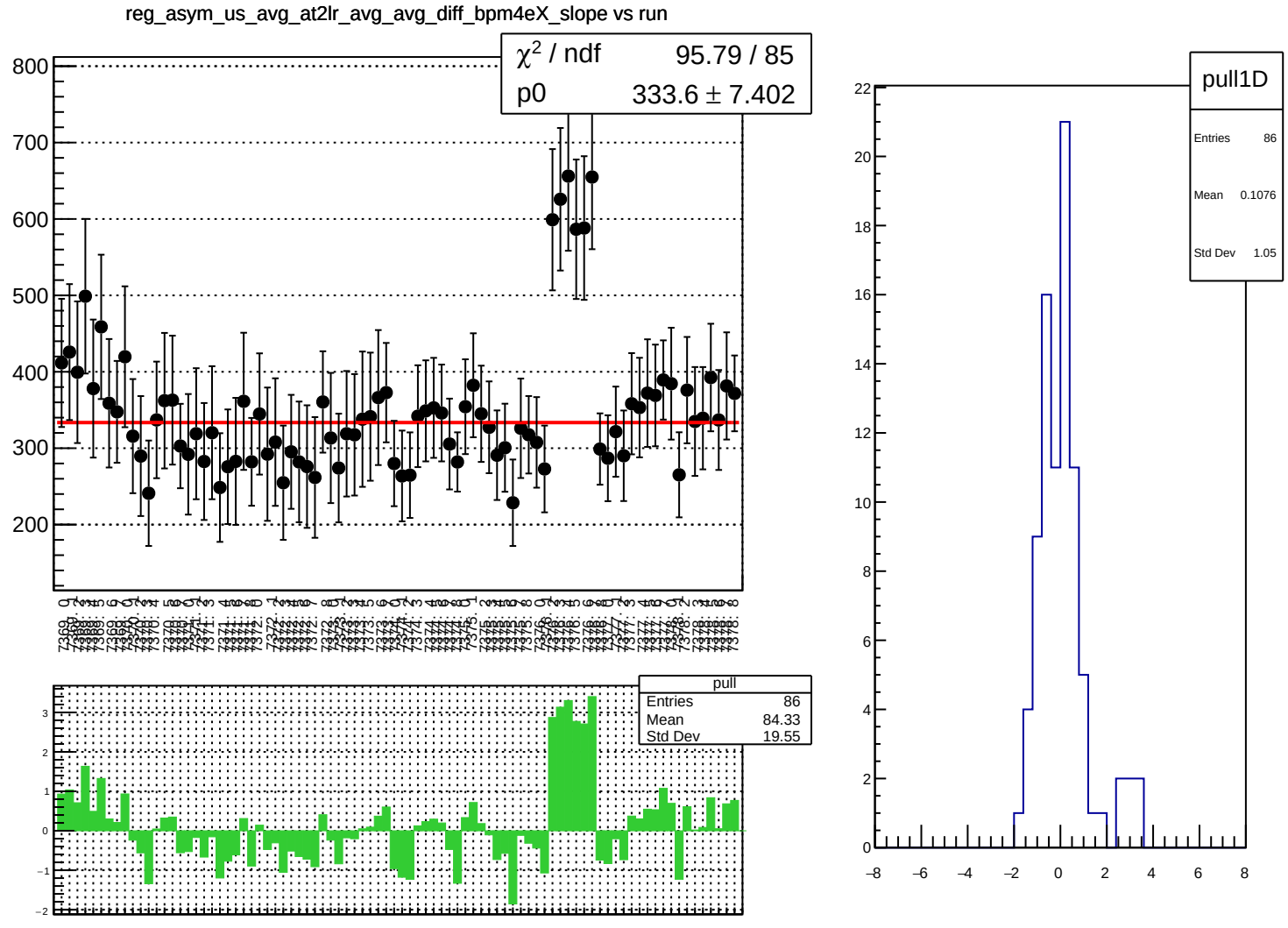

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.57 / 85
p0 40.1 ± 1.508
pull
Entries 86
Mean −87.72
Std Dev 0

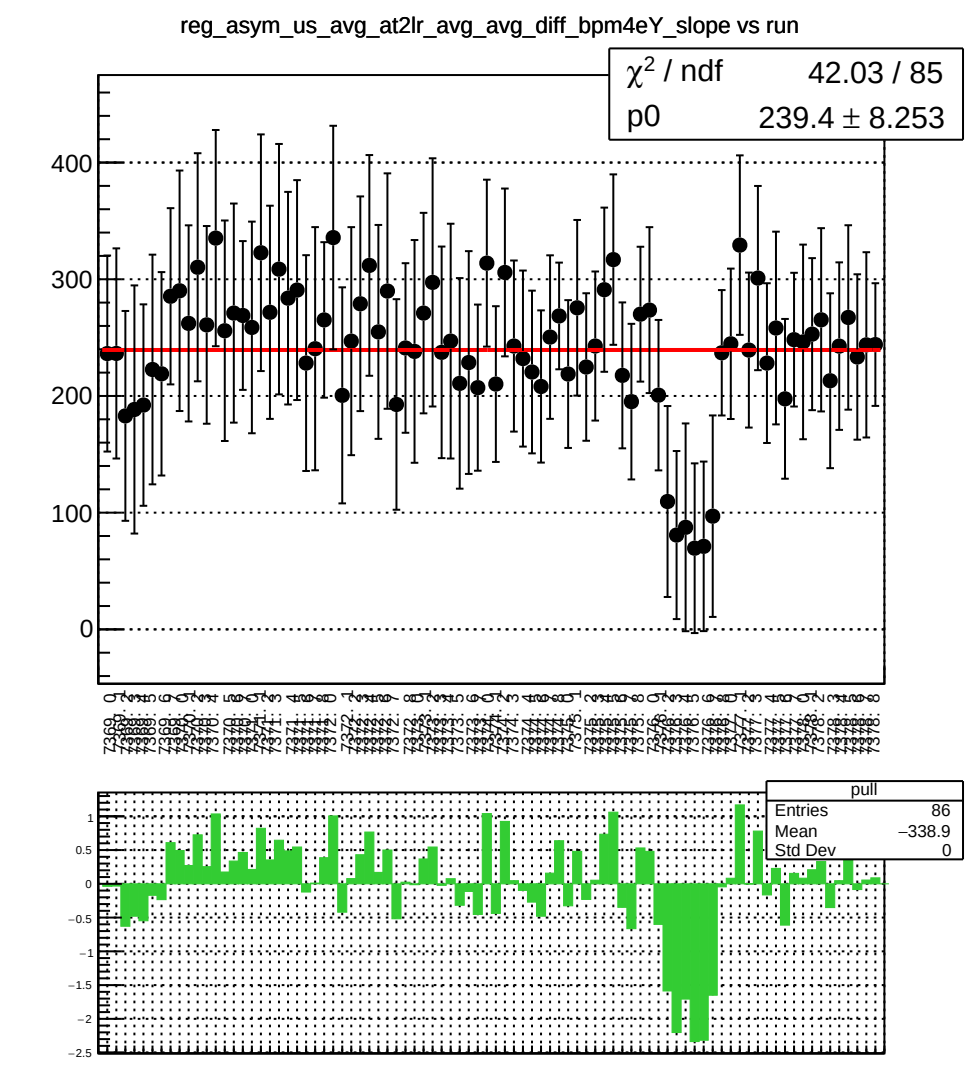

pull1D
Entries 86
Mean −0.03818
Std Dev 0.9178

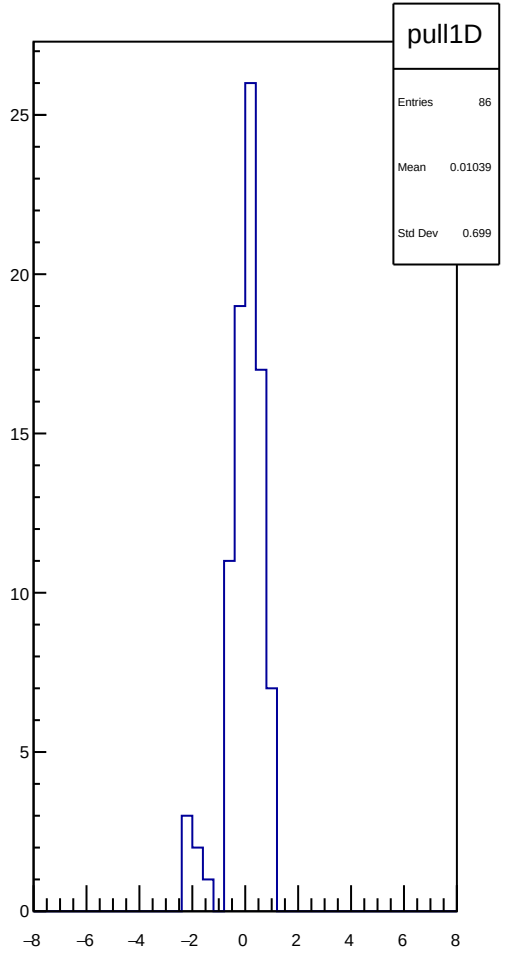

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 90.3 / 85
p0 −20.74 ± 0.0678
pull
Entries 86
Mean −4878
Std Dev 0
pull1D
Entries 86
Mean 0.0005613
Std Dev 1.025

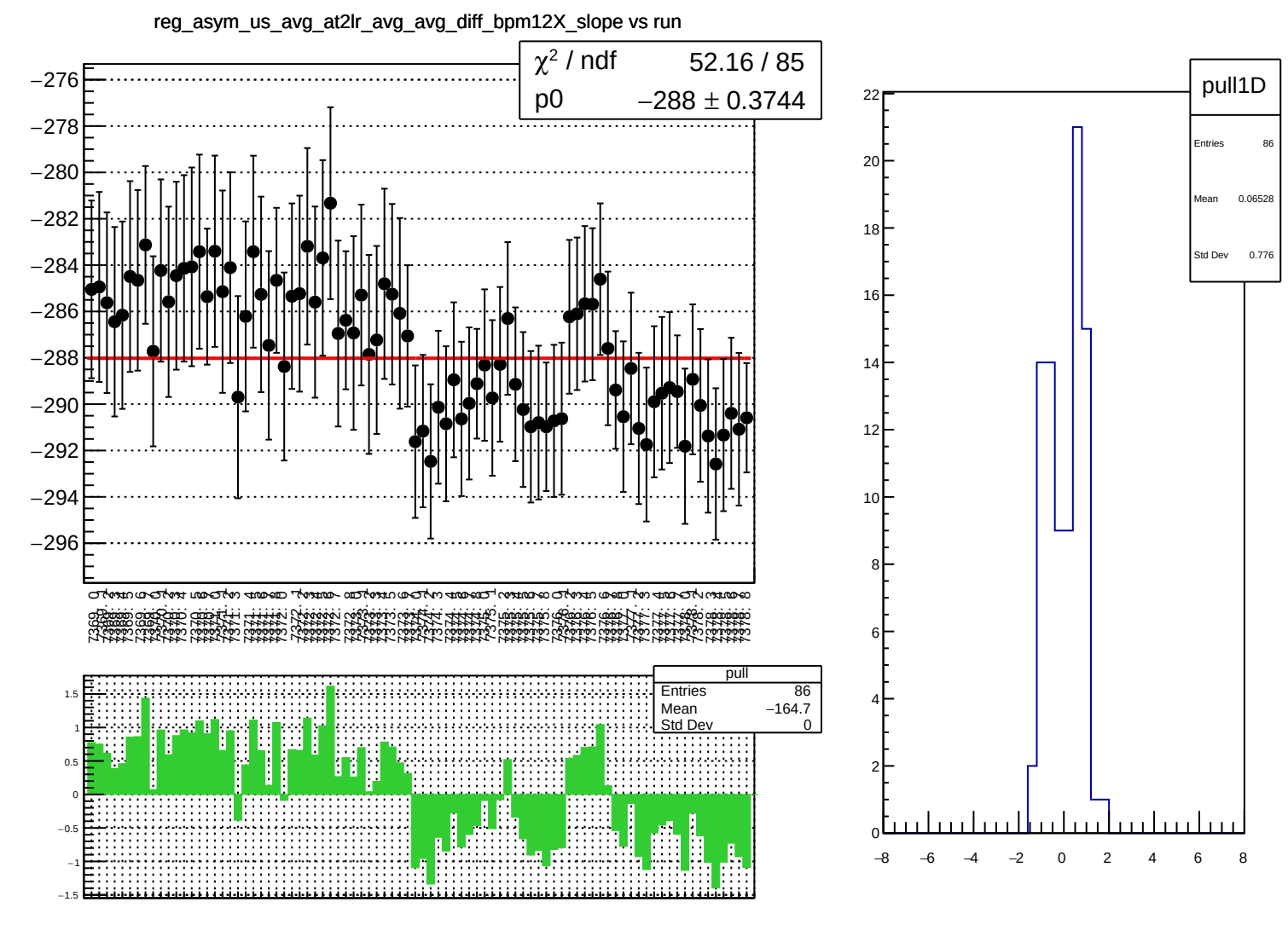

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 93.79 / 85
p0 −301.8 ± 7.136
pull
Entries 86
Mean 81.45
Std Dev 21.2
pull1D
Entries 86
Mean −0.1083
Std Dev 1.039

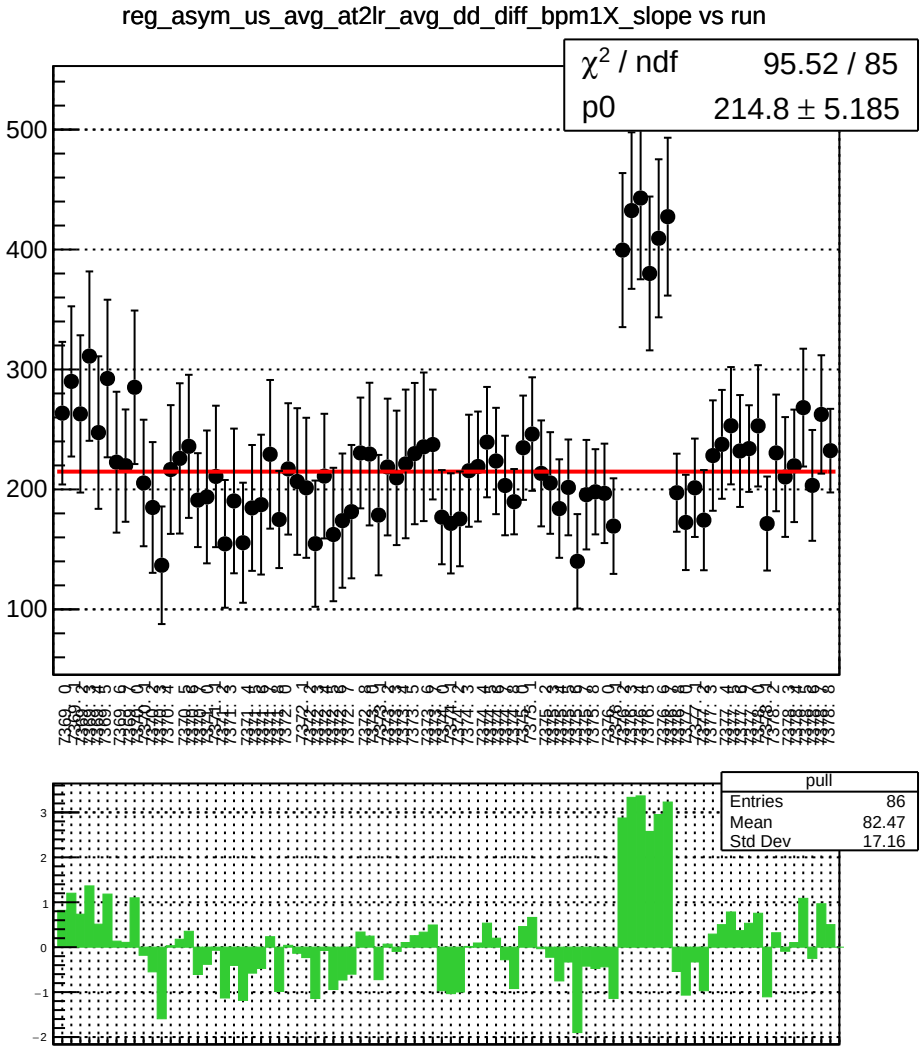

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.08 / 85
p0 −93.33 ± 7.783
pull
Entries 86
Mean −166.1
Std Dev 0
pull1D
Entries 86
Mean −0.01284
Std Dev 0.7239

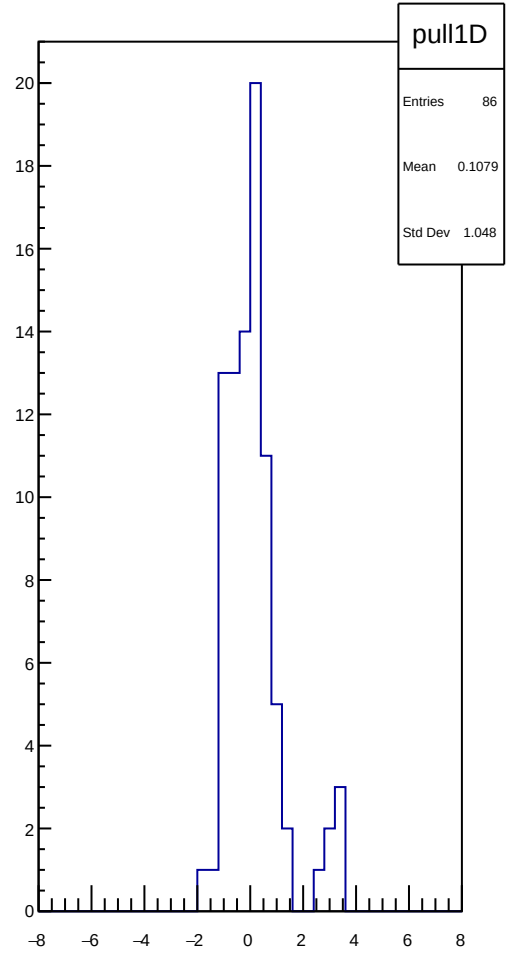

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.79 / 85
p0 333.6 ± 7.402
pull
Entries 86
Mean 84.33
Std Dev 19.55
pull1D
Entries 86
Mean 0.1076
Std Dev 1.05

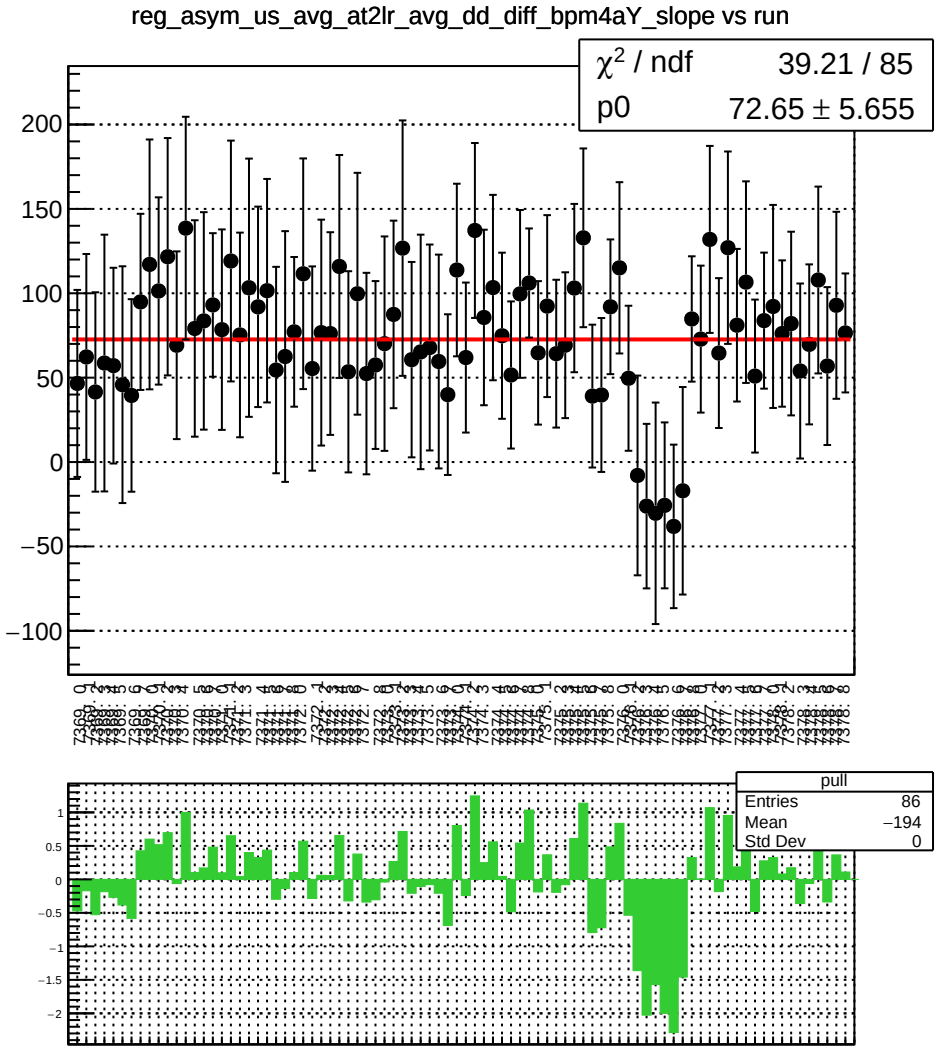

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.03 / 85
p0 239.4 ± 8.253
400
300
200
100
0
pull
Entries 86
Mean −338.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

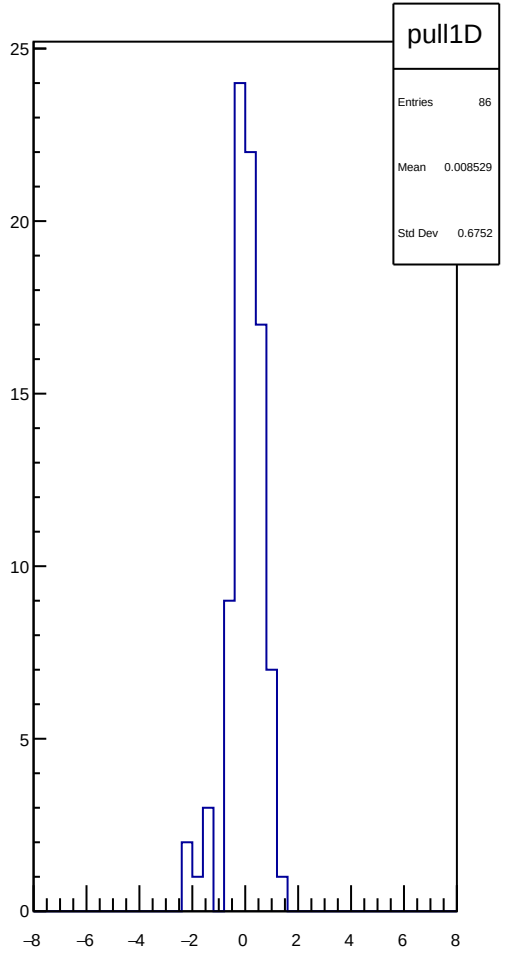

pull1D
Entries 86
Mean 0.01039
Std Dev 0.699
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

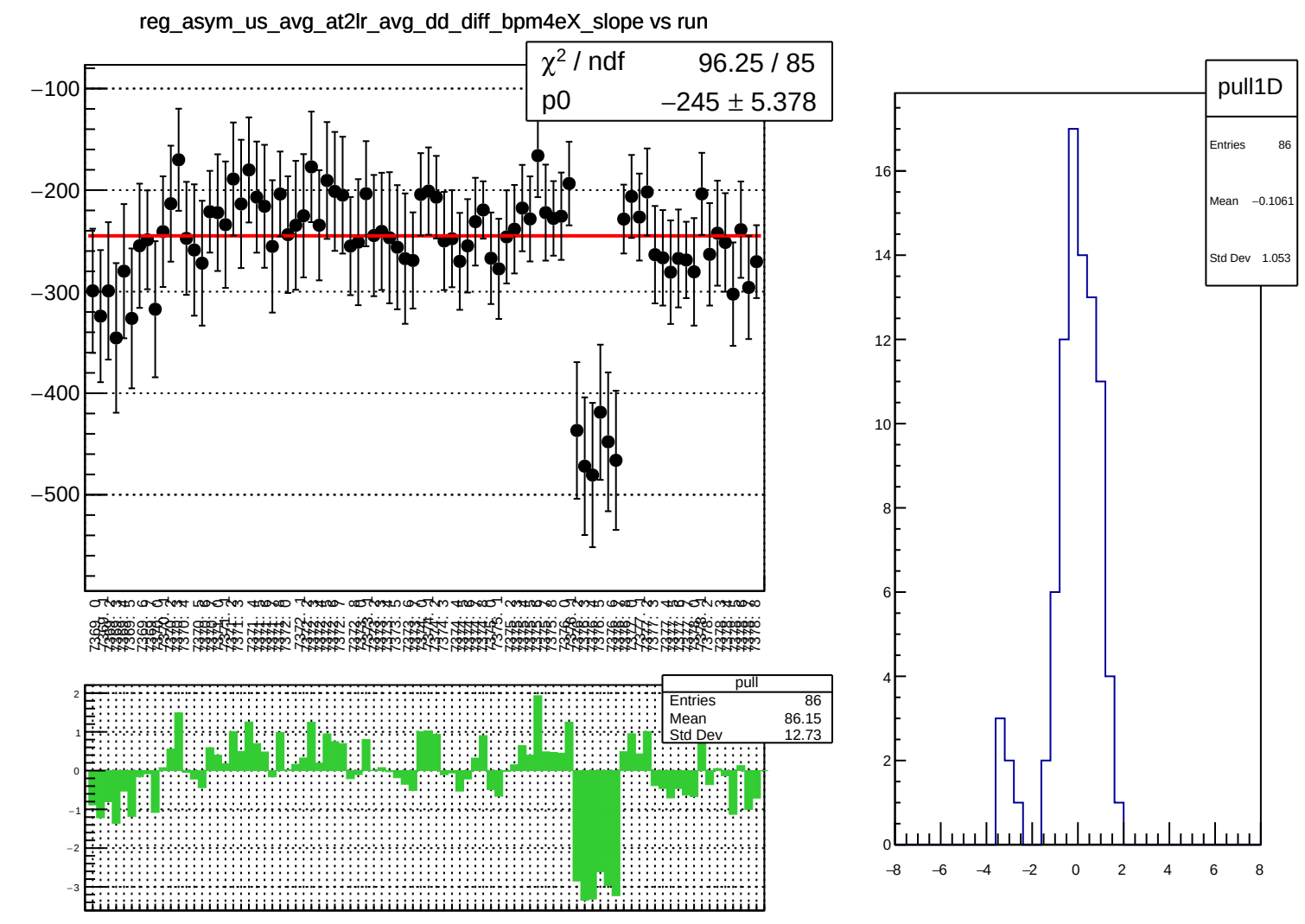

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 52.16 / 85
p0 −288 ± 0.3744
pull
Entries 86
Mean −164.7
Std Dev 0
pull1D
Entries 86
Mean 0.06528
Std Dev 0.776

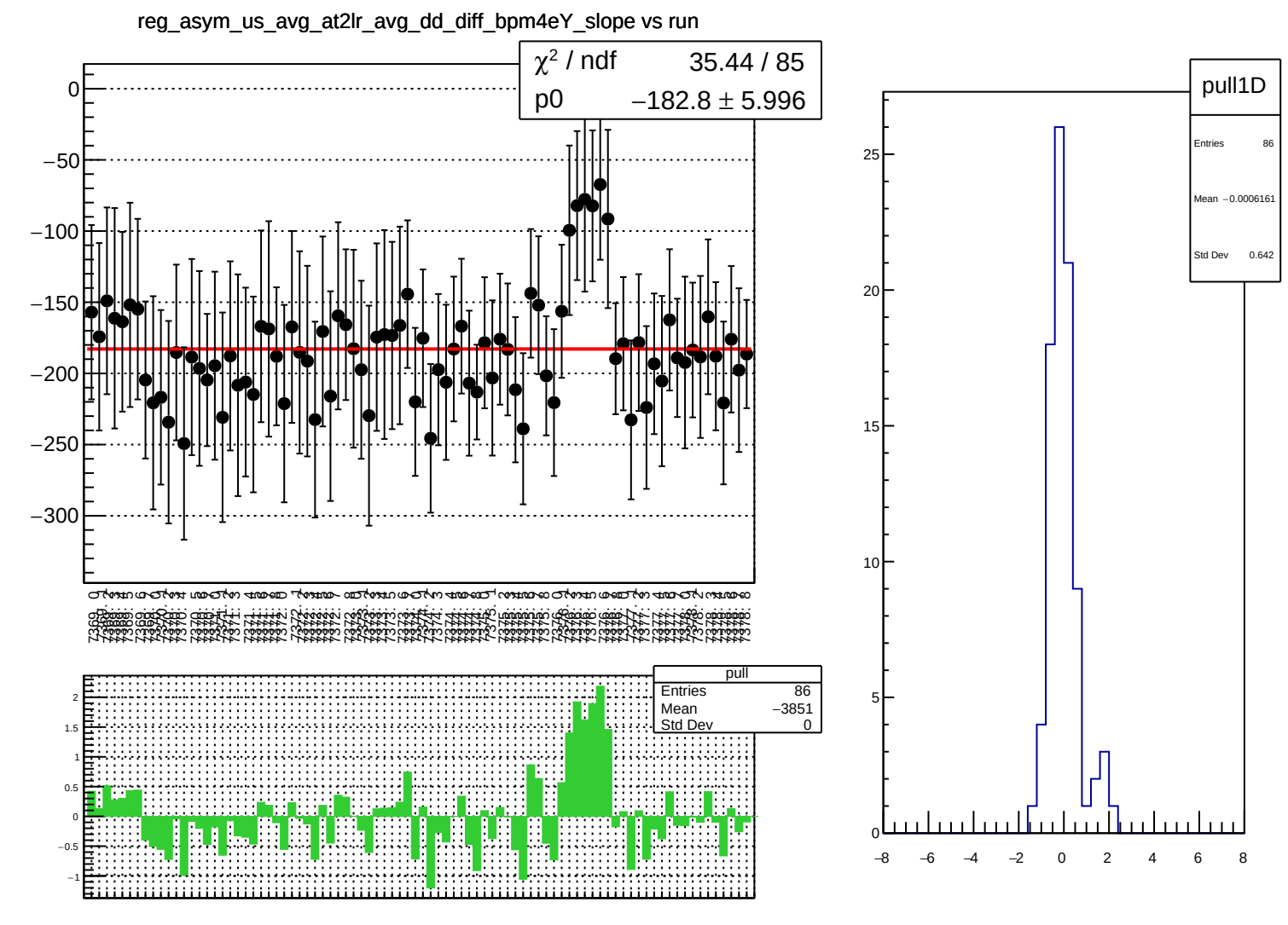

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 95.52 / 85
p0 214.8 ± 5.185
500
400
300
200
100
pull
Entries 86
Mean 82.47
Std Dev 17.16
3
2
1
0
−1
−2

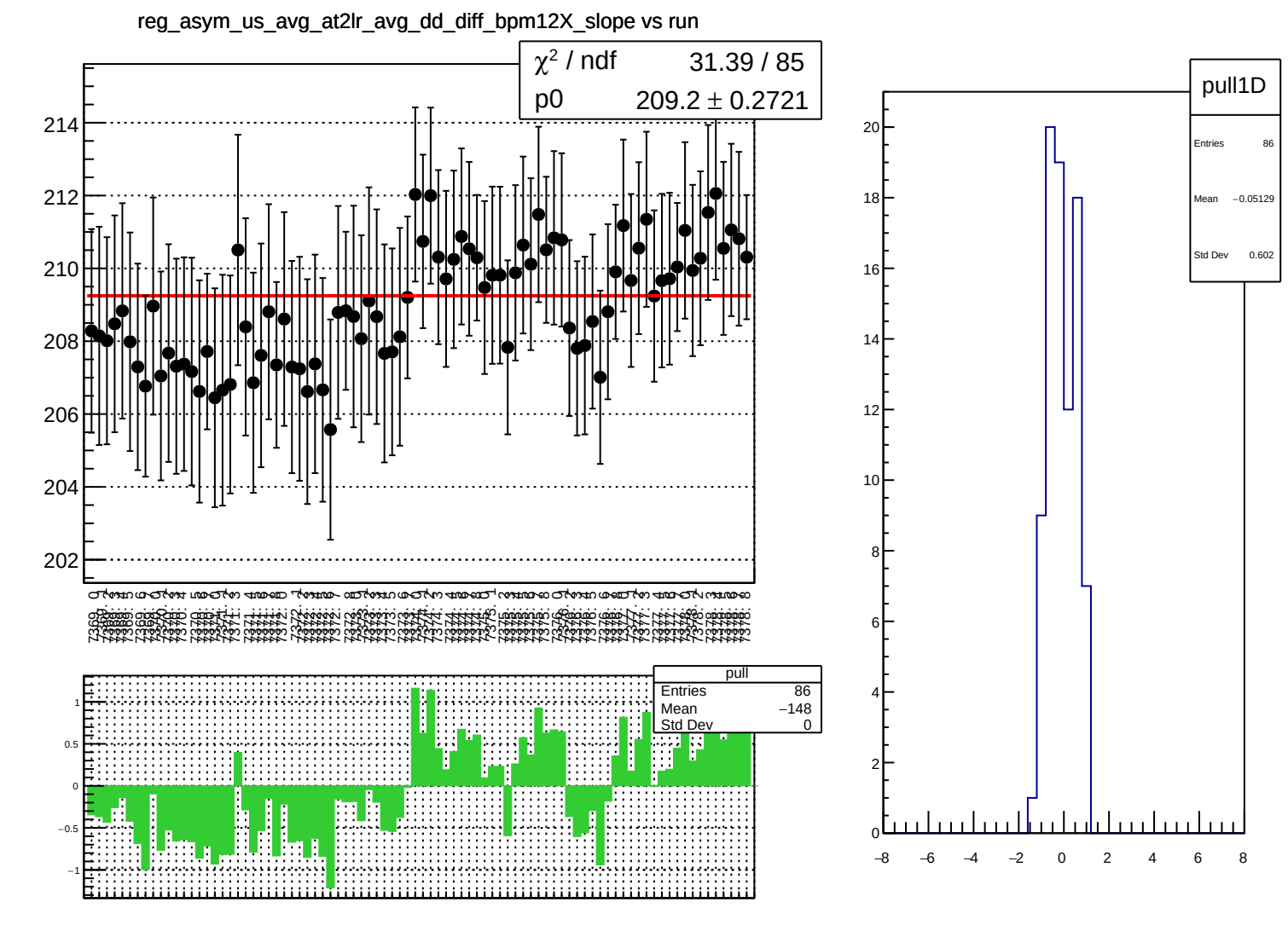

pull1D
Entries 86
Mean 0.1079
Std Dev 1.048
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

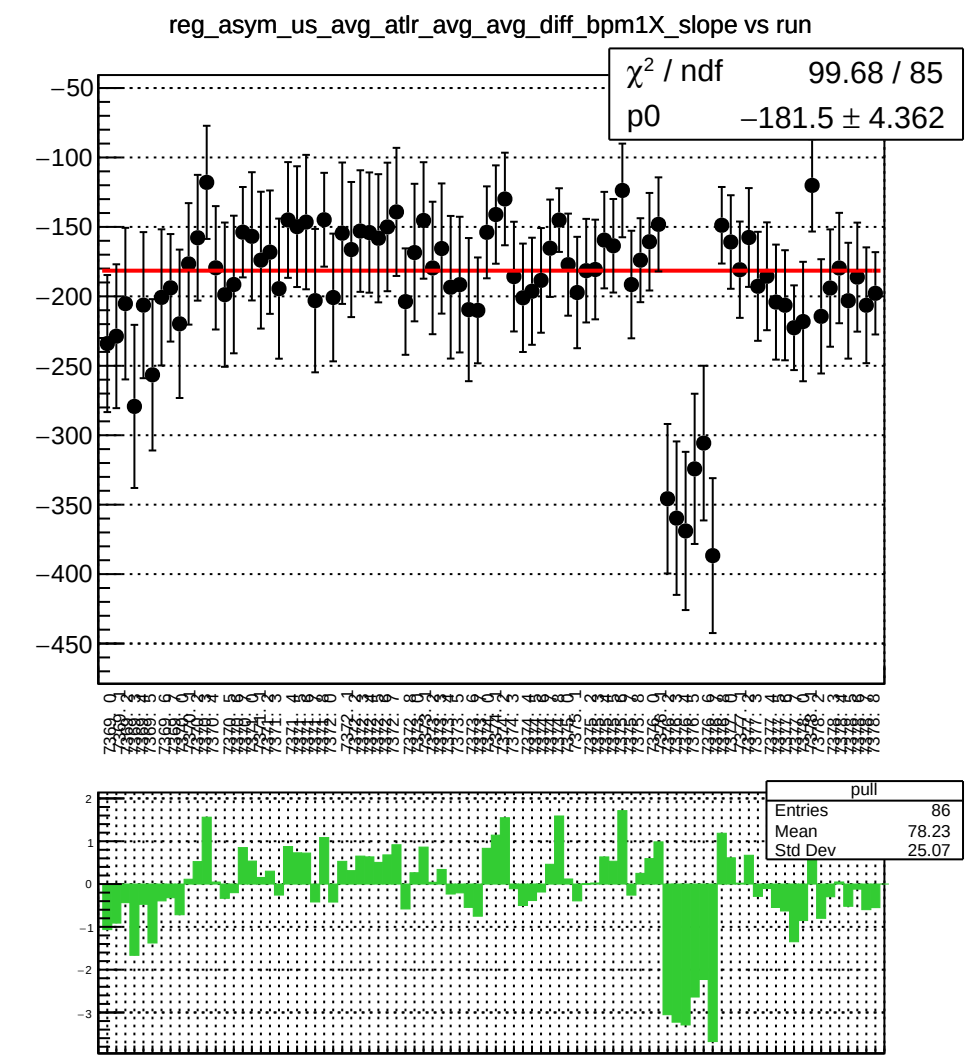

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.21 / 85
p0 72.65 ± 5.655
200
150
100
50
0
−50
−100
pull
Entries 86
Mean −194
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

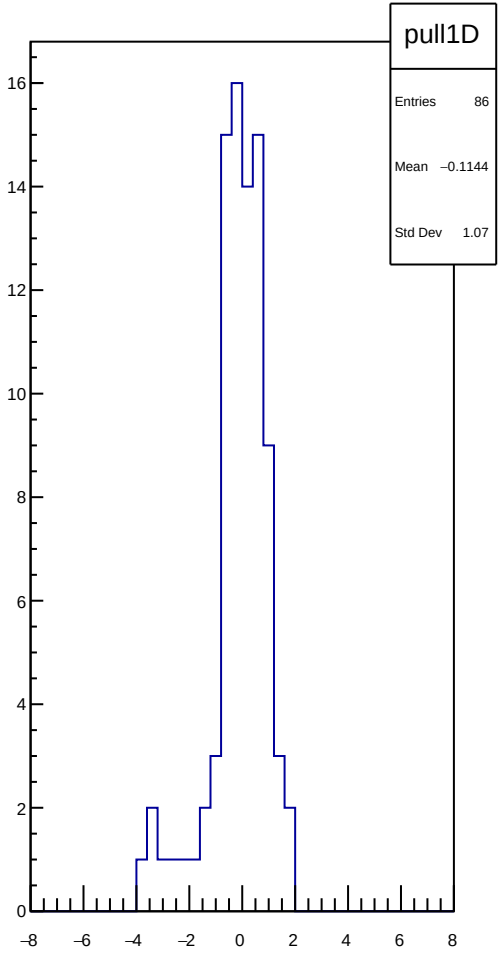

pull1D
Entries 86
Mean 0.008529
Std Dev 0.6752
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

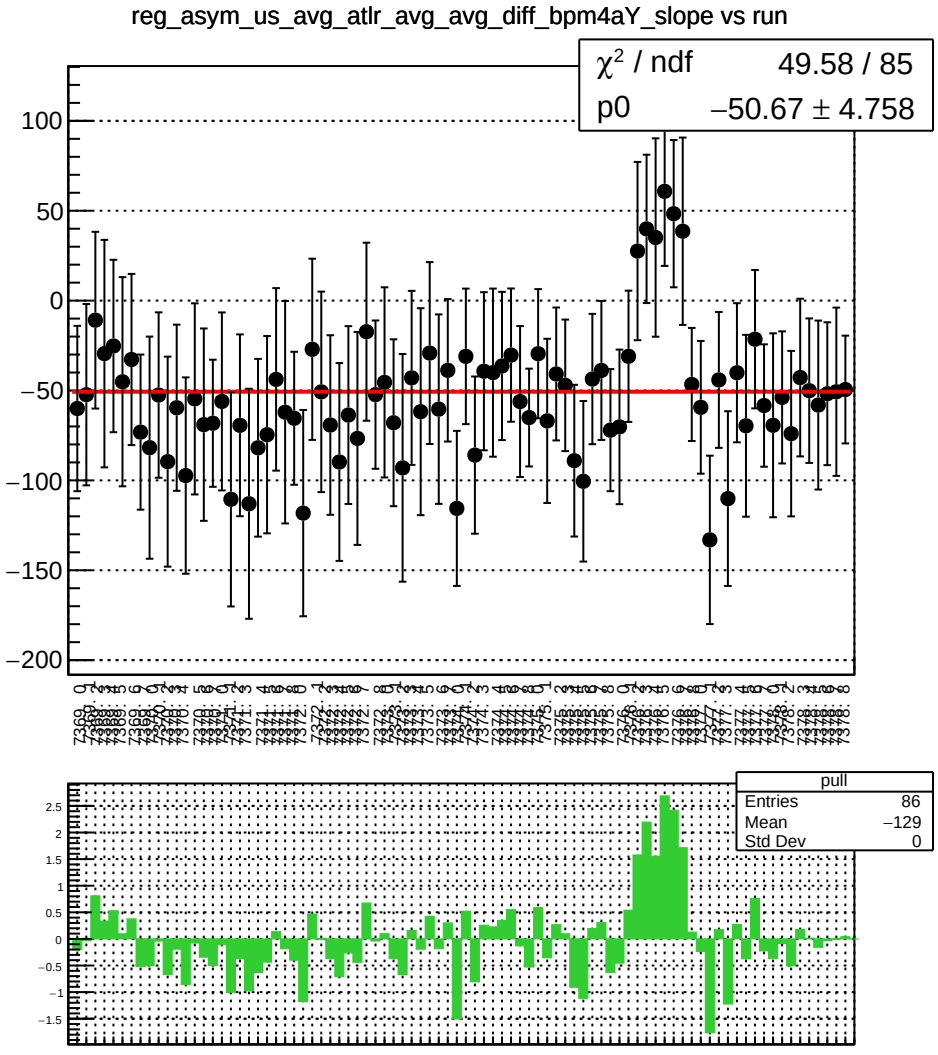

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.25 / 85
p0 −245 ± 5.378
−100
−200
−300
−400
−500
pull
Entries 86
Mean 86.15
Std Dev 12.73
pull1D
Entries 86
Mean −0.1061
Std Dev 1.053

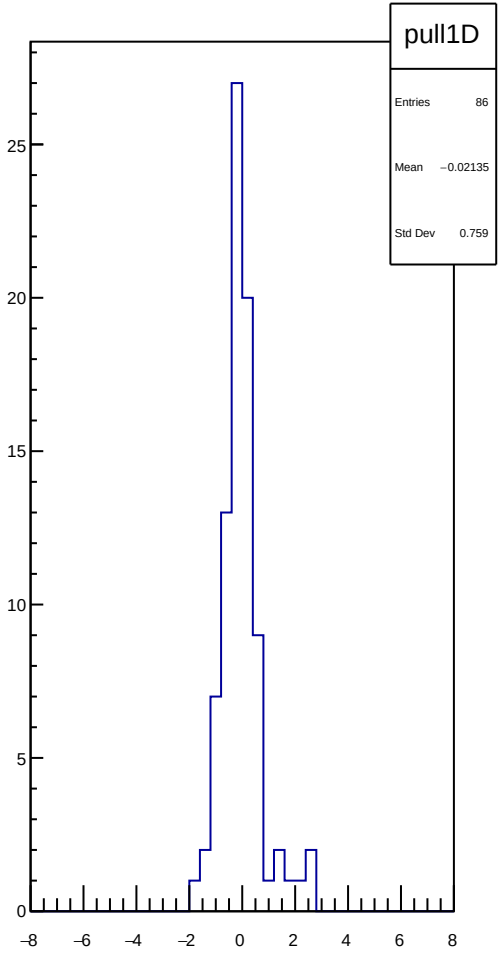

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.44 / 85
p0 −182.8 ± 5.996
pull
Entries 86
Mean −3851
Std Dev 0
pull1D
Entries 86
Mean −0.0006161
Std Dev 0.642

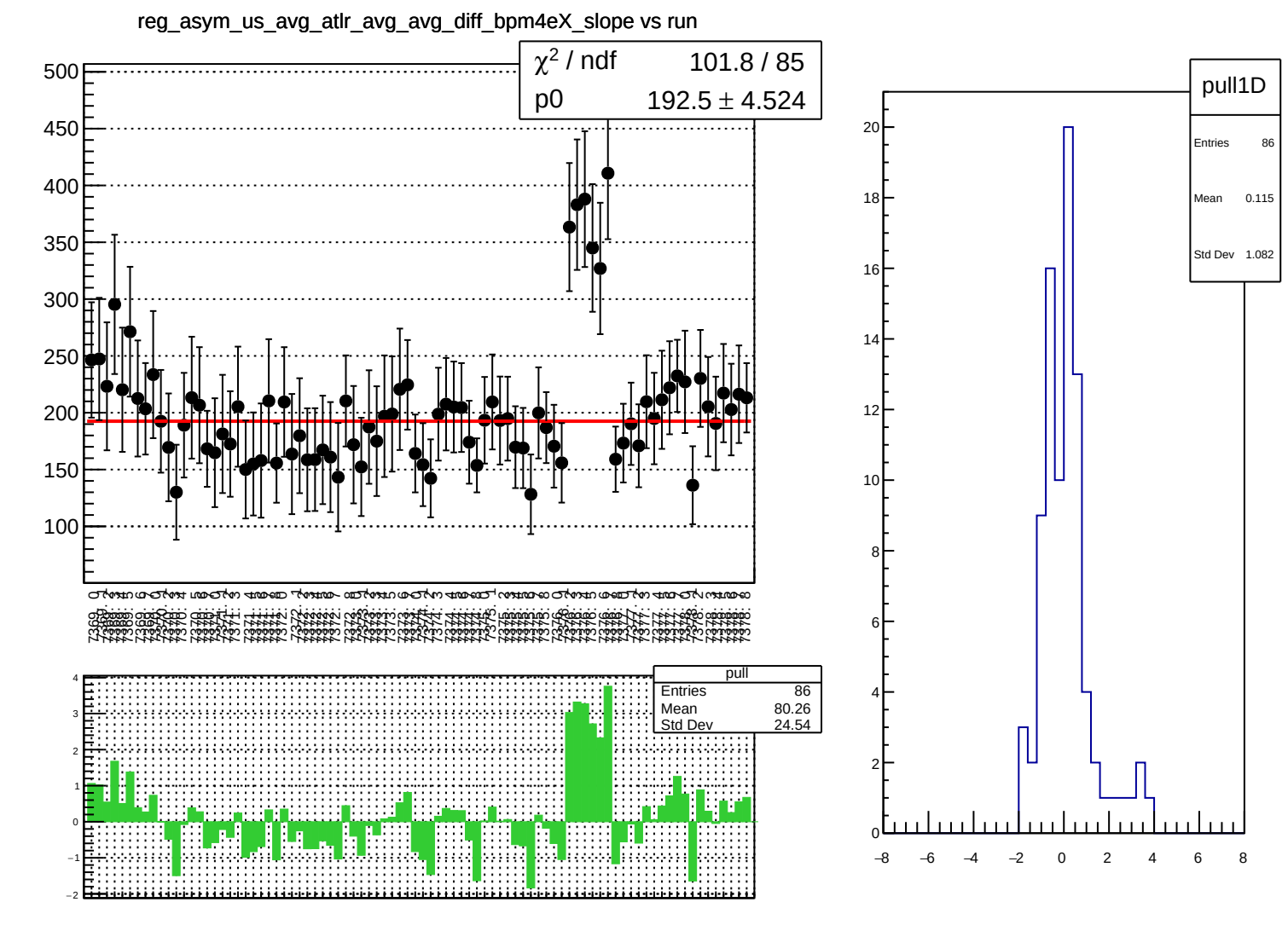

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 31.39 / 85
p0 209.2 ± 0.2721
214
212
210
208
206
204
202
pull
Entries 86
Mean −148
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.05129
Std Dev 0.602
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

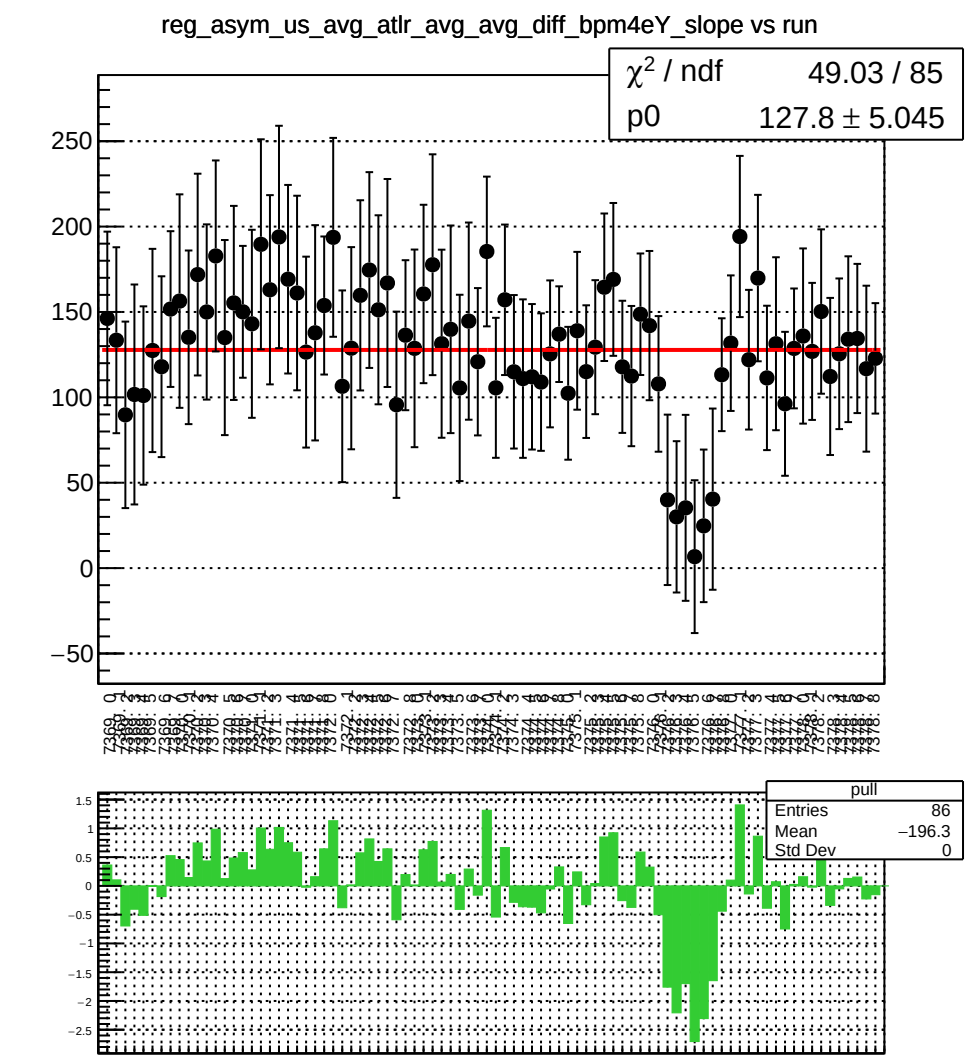

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 99.68 / 85
p0 −181.5 ± 4.362
pull
Entries 86
Mean 78.23
Std Dev 25.07

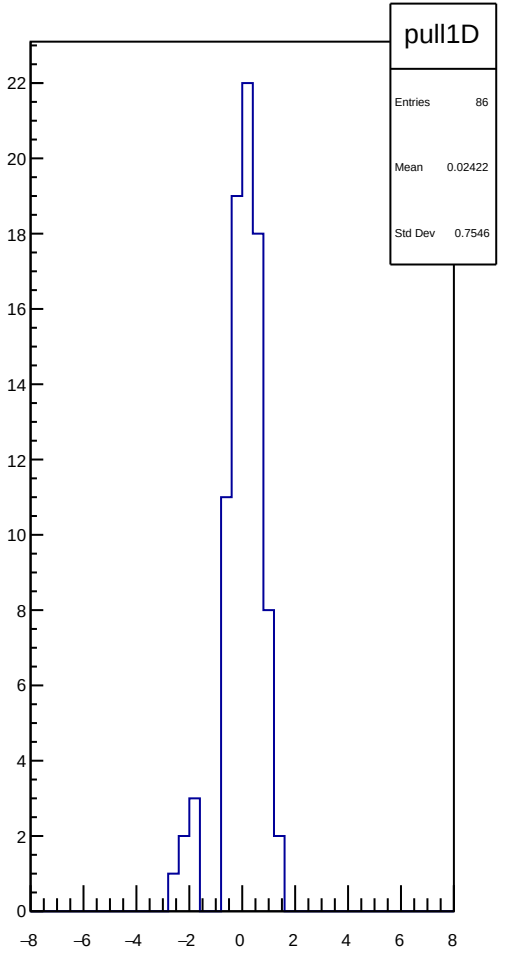

pull1D
Entries 86
Mean −0.1144
Std Dev 1.07

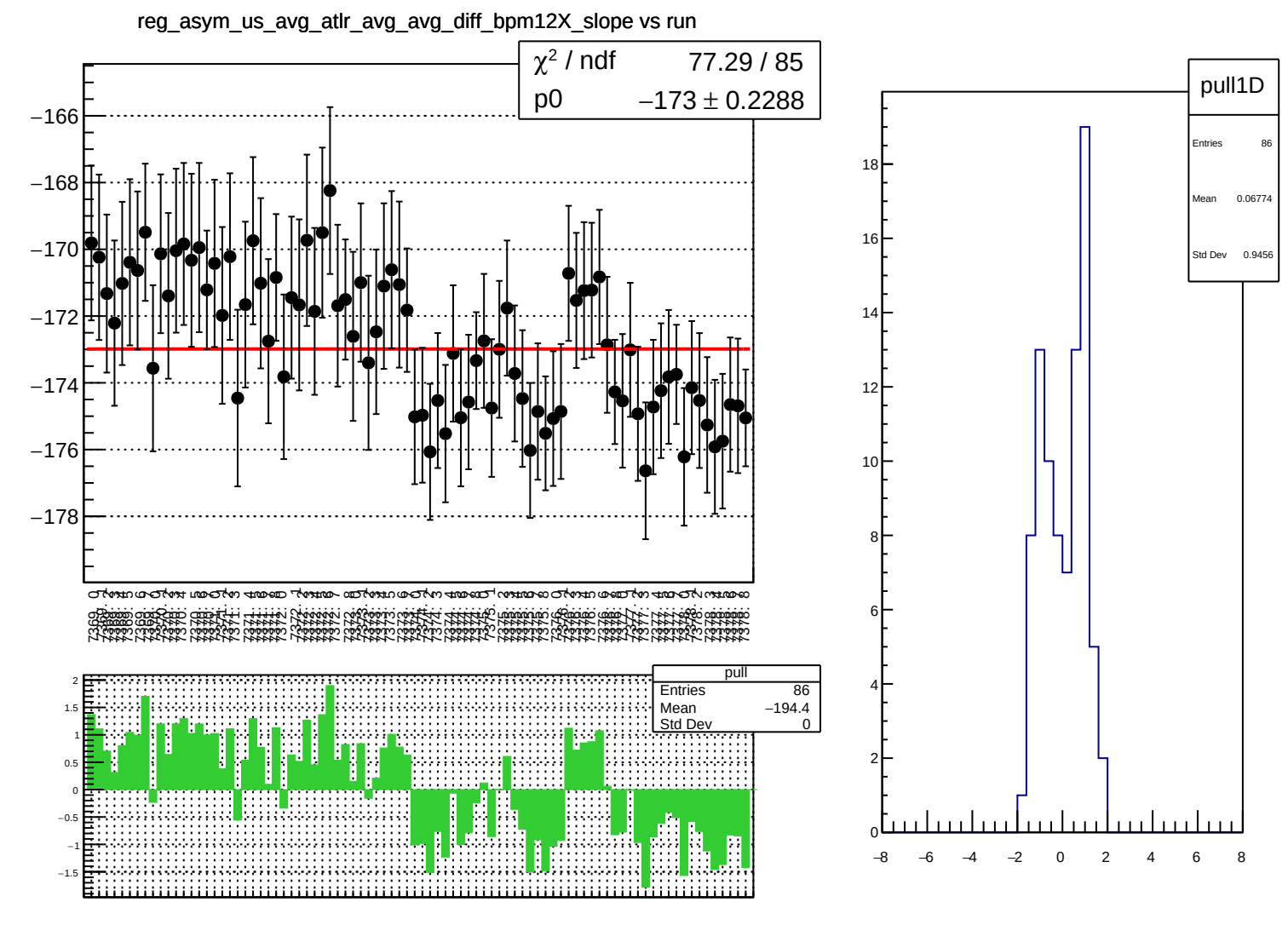

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.58 / 85
p0 −50.67 ± 4.758
pull
Entries 86
Mean −129
Std Dev 0

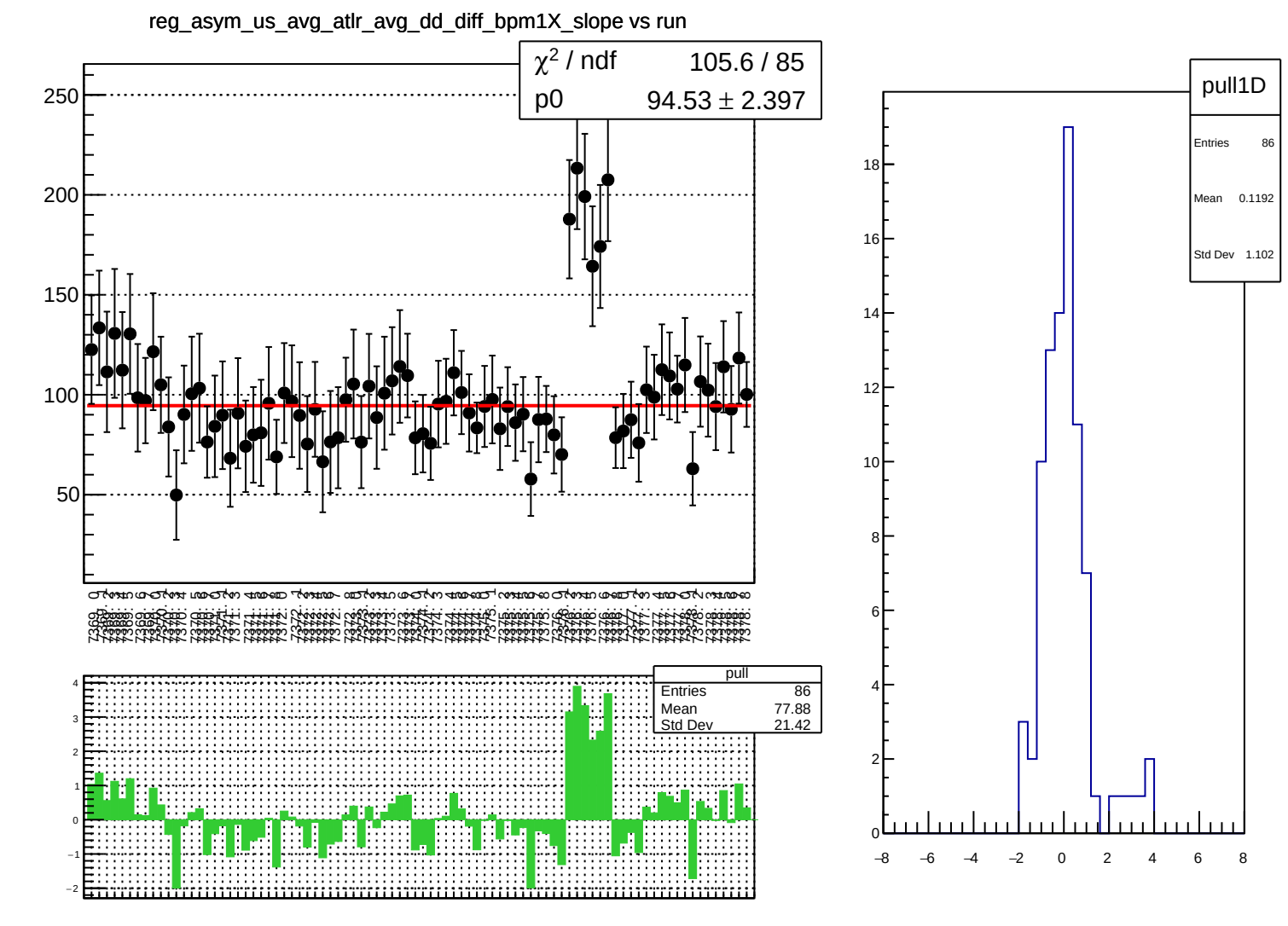

pull1D
Entries 86
Mean −0.02135
Std Dev 0.759

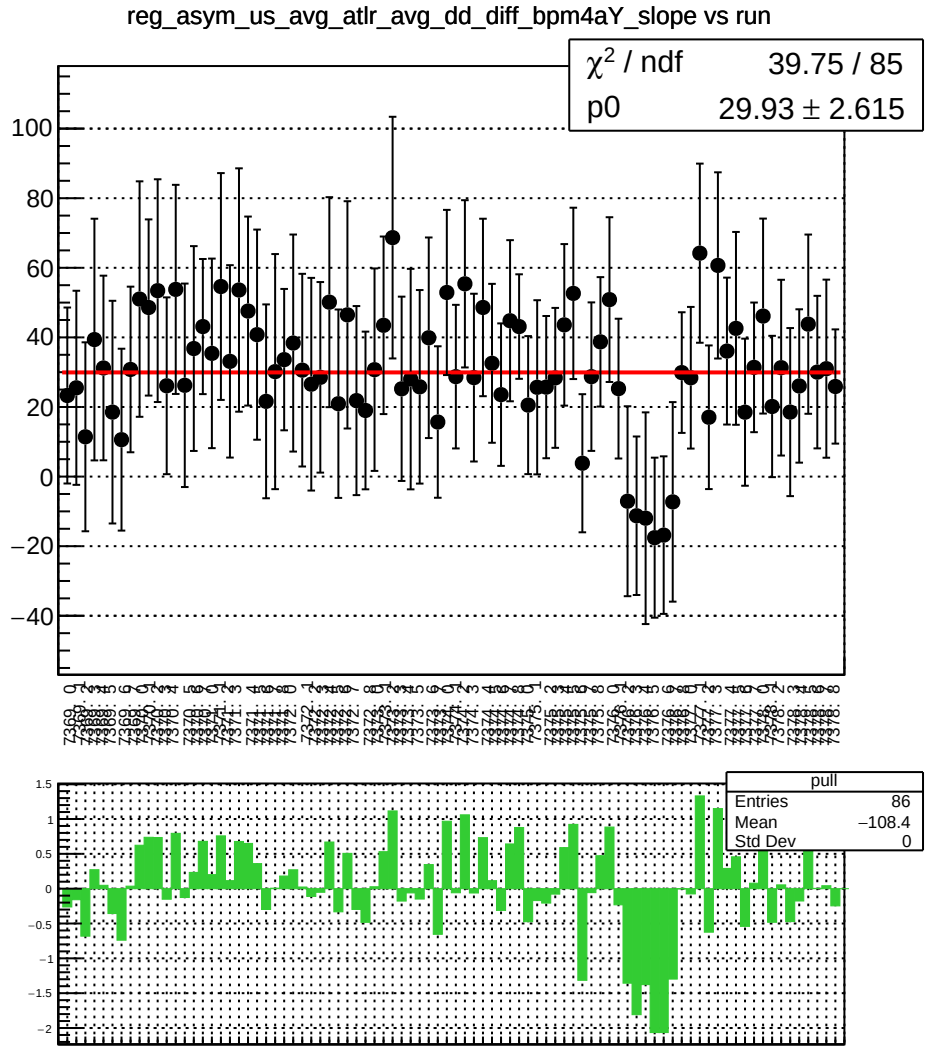

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 101.8 / 85
p0 192.5 ± 4.524
pull
Entries 86
Mean 80.26
Std Dev 24.54
pull1D
Entries 86
Mean 0.115
Std Dev 1.082

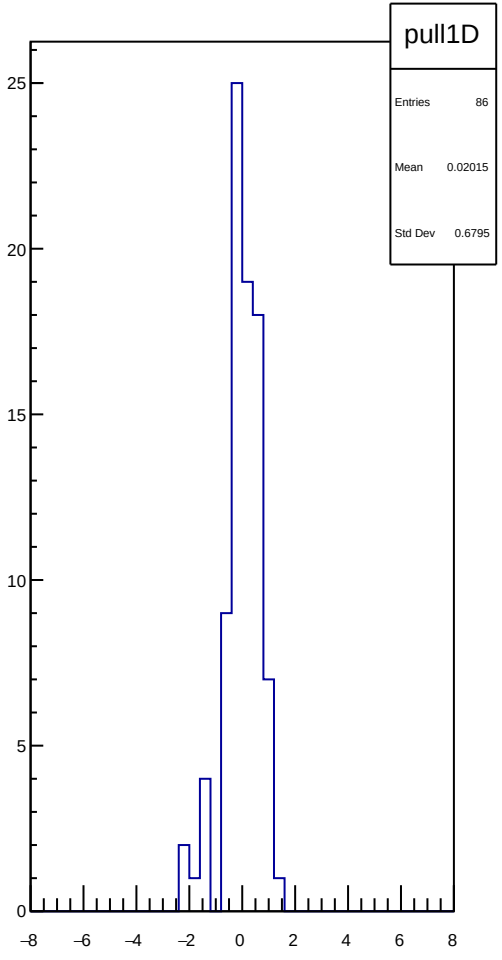

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.03 / 85
p0 127.8 ± 5.045
pull
Entries 86
Mean −196.3
Std Dev 0

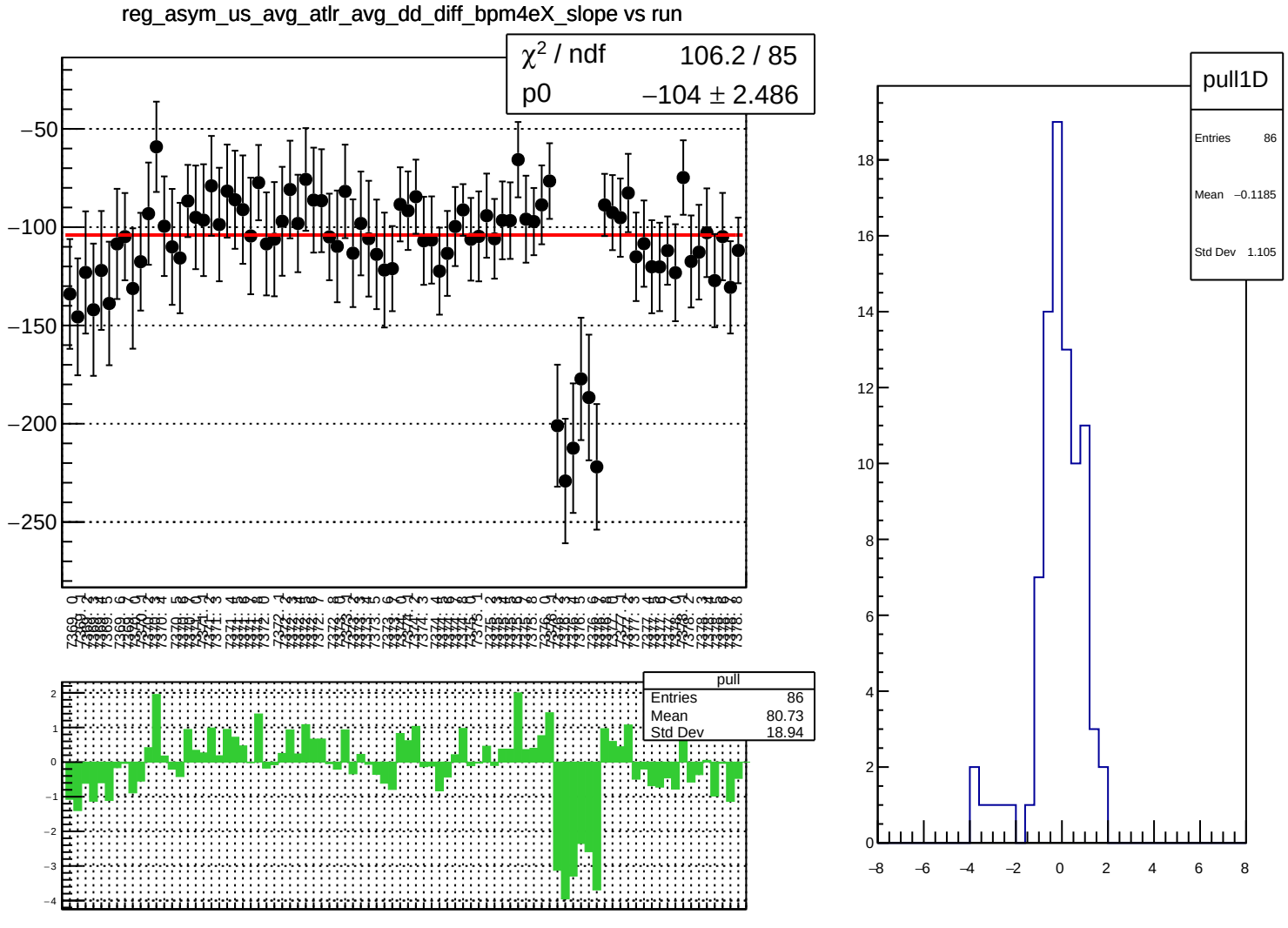

pull1D
Entries 86
Mean 0.02422
Std Dev 0.7546

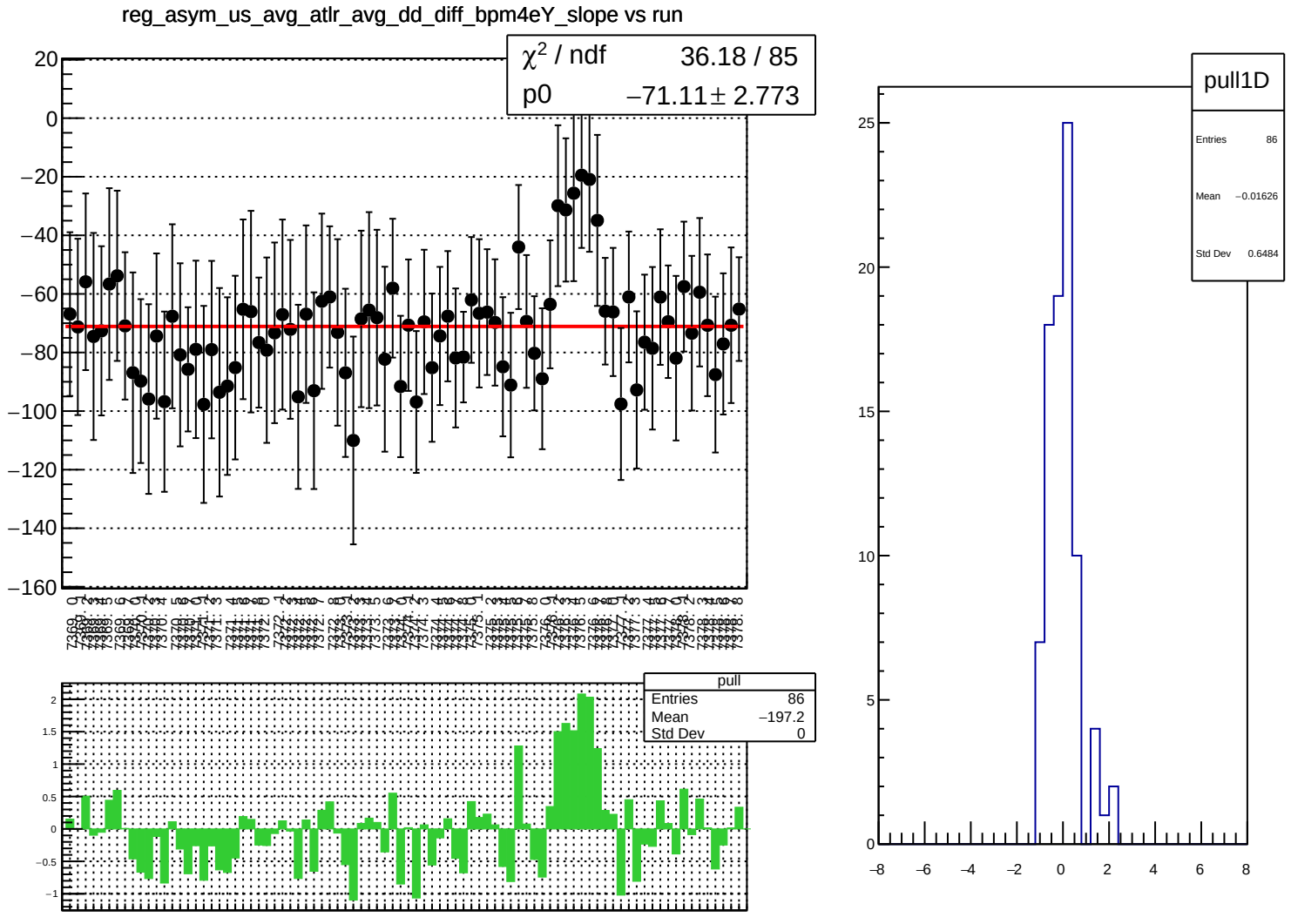

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 77.29 / 85
p0 −173 ± 0.2288
pull
Entries 86
Mean −194.4
Std Dev 0
pull1D
Entries 86
Mean 0.06774
Std Dev 0.9456

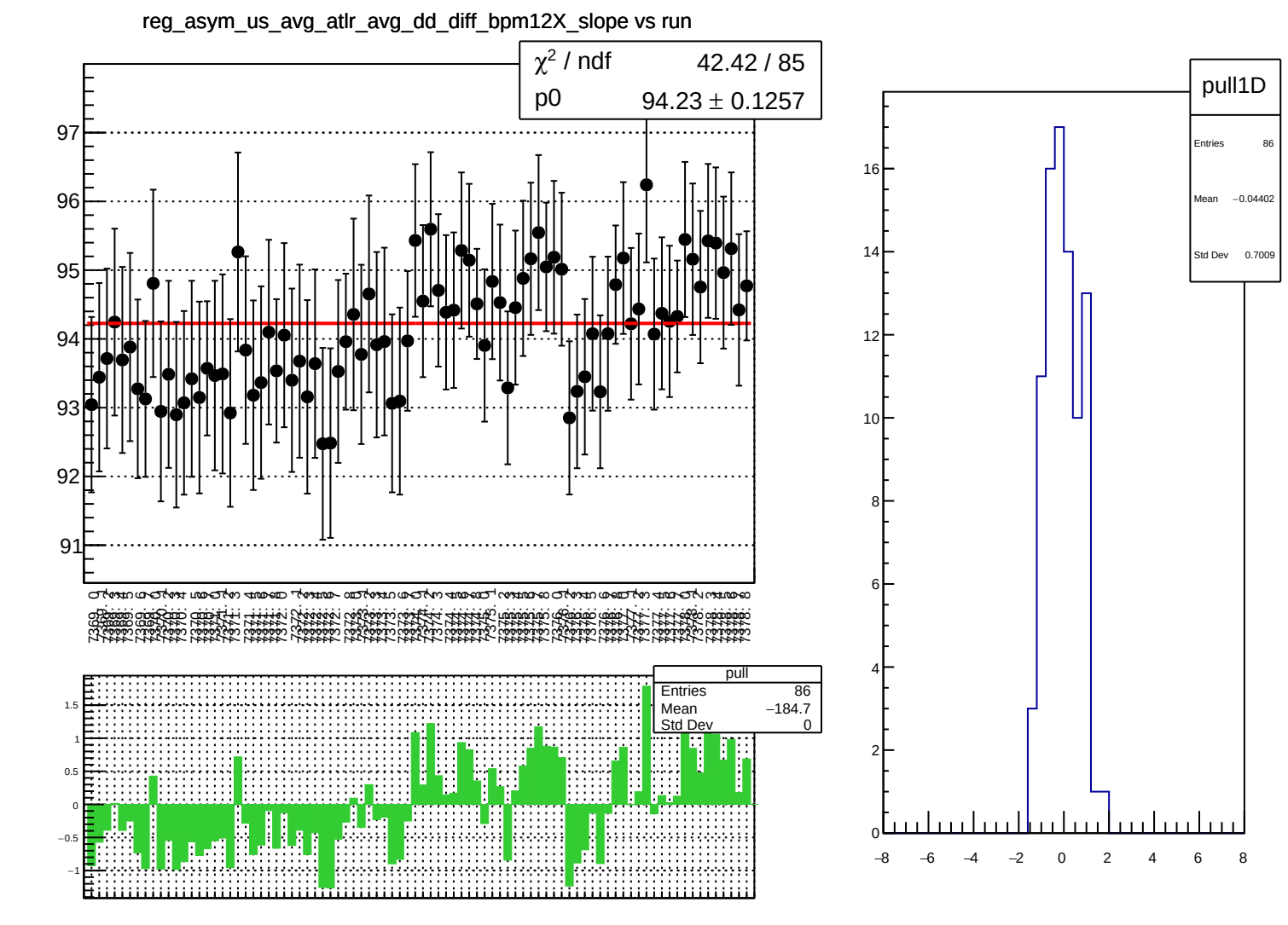

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 105.6 / 85
p0 94.53 ± 2.397
250
200
150
100
50
pull
Entries 86
Mean 77.88
Std Dev 21.42
4
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.1192
Std Dev 1.102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

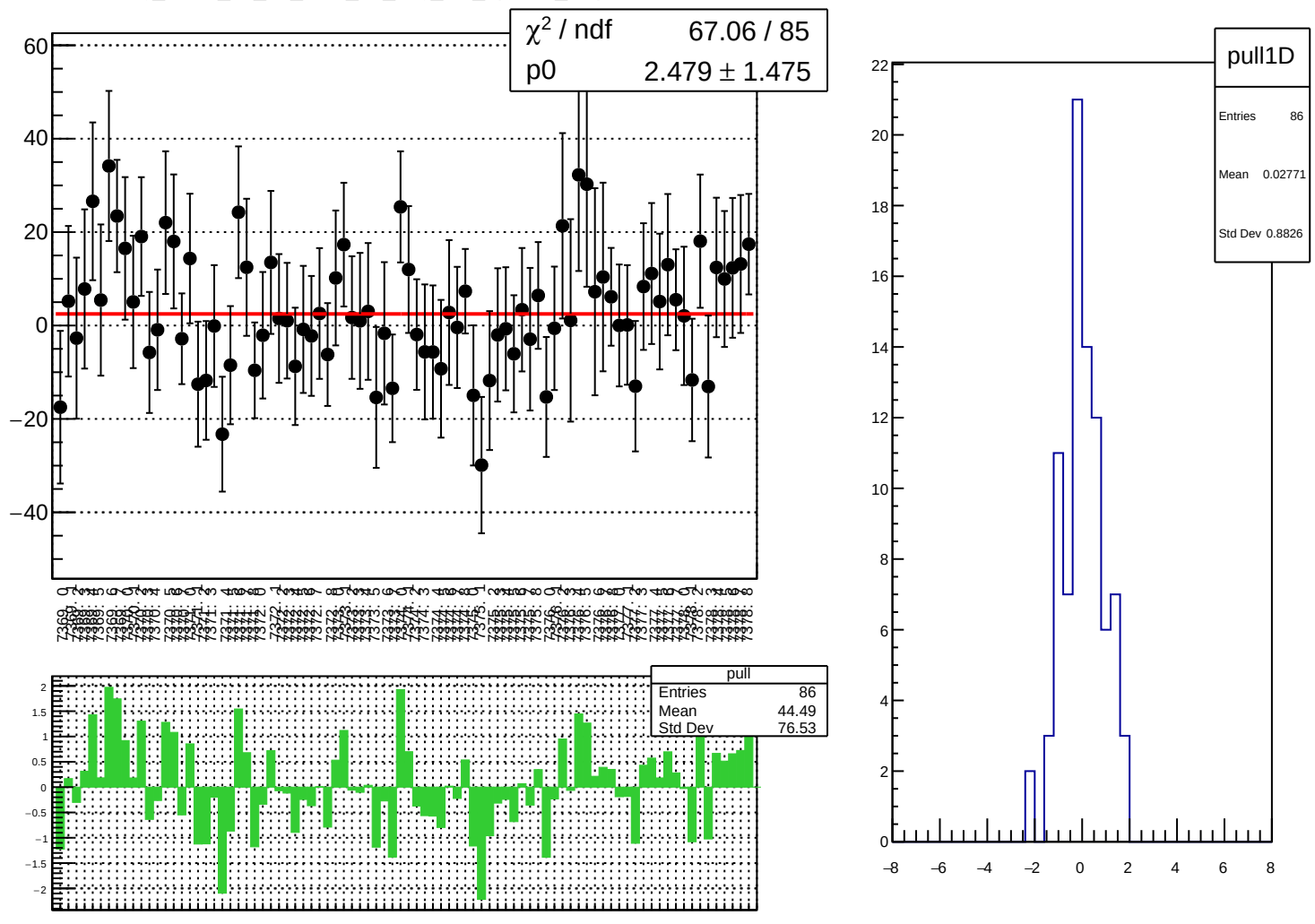

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.75 / 85
p0 29.93 ± 2.615
pull
Entries 86
Mean −108.4
Std Dev 0

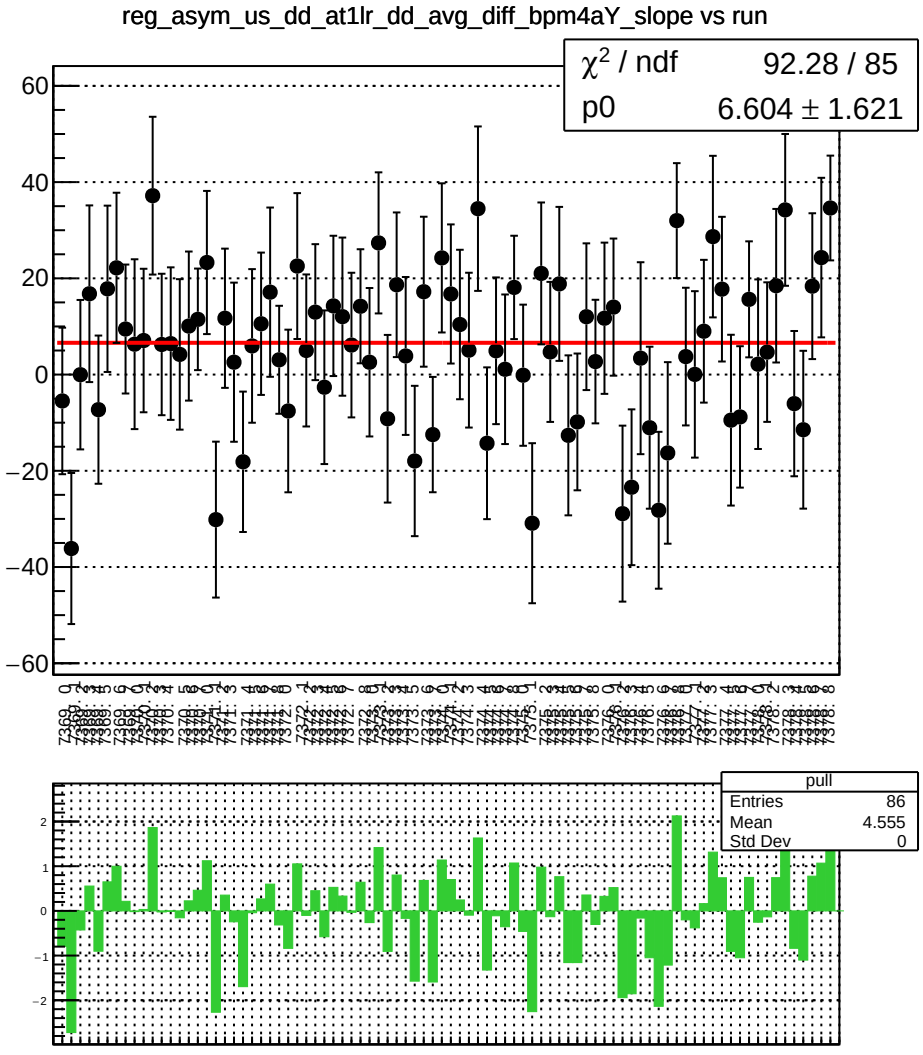

pull1D
Entries 86
Mean 0.02015
Std Dev 0.6795

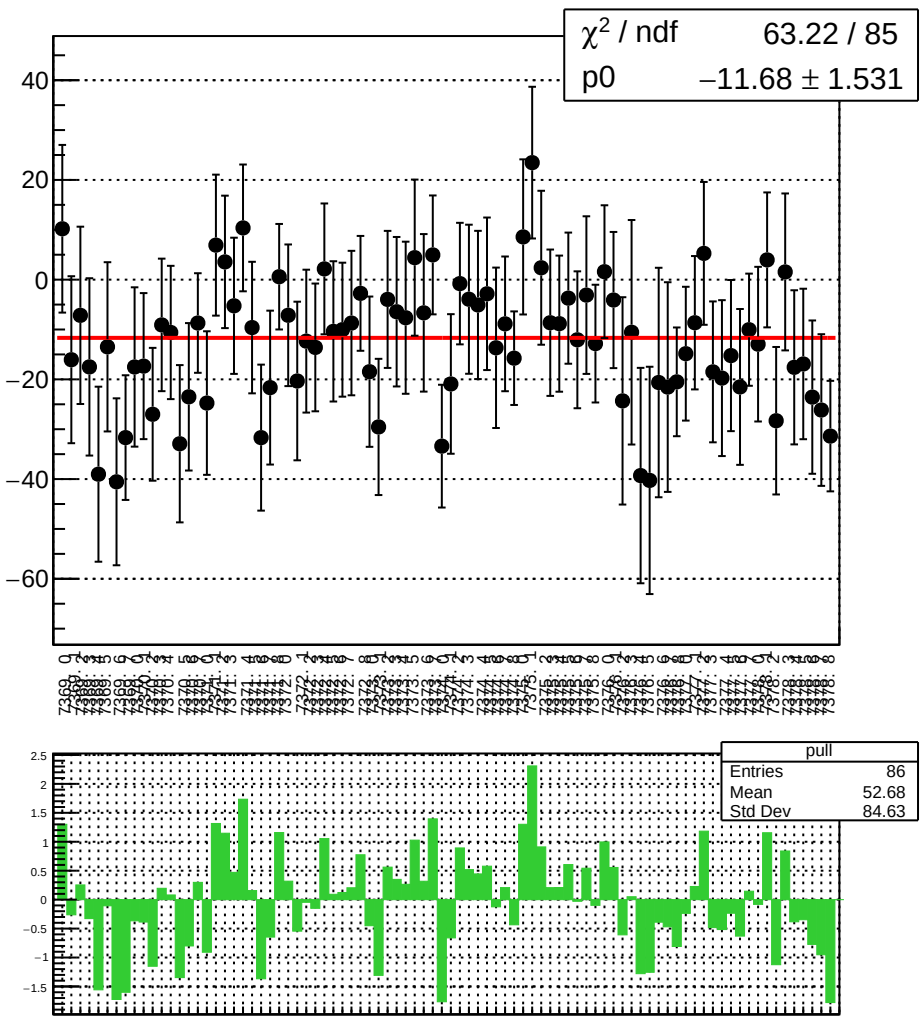

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 106.2 / 85
p0 −104 ± 2.486
−50
−100
−150
−200
−250
pull
Entries 86
Mean 80.73
Std Dev 18.94
2
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean −0.1185
Std Dev 1.105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

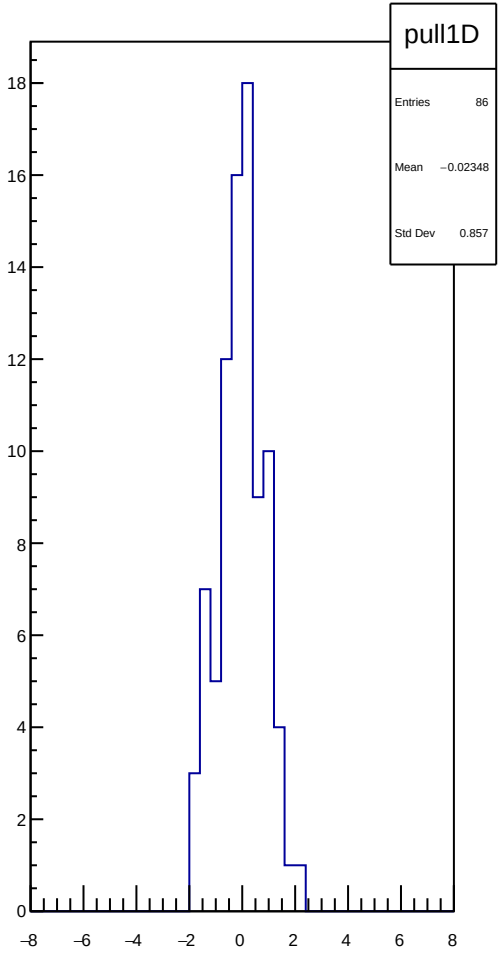

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.18 / 85
p0 −71.11 ± 2.773
pull
Entries 86
Mean −197.2
Std Dev 0
pull1D
Entries 86
Mean −0.01626
Std Dev 0.6484

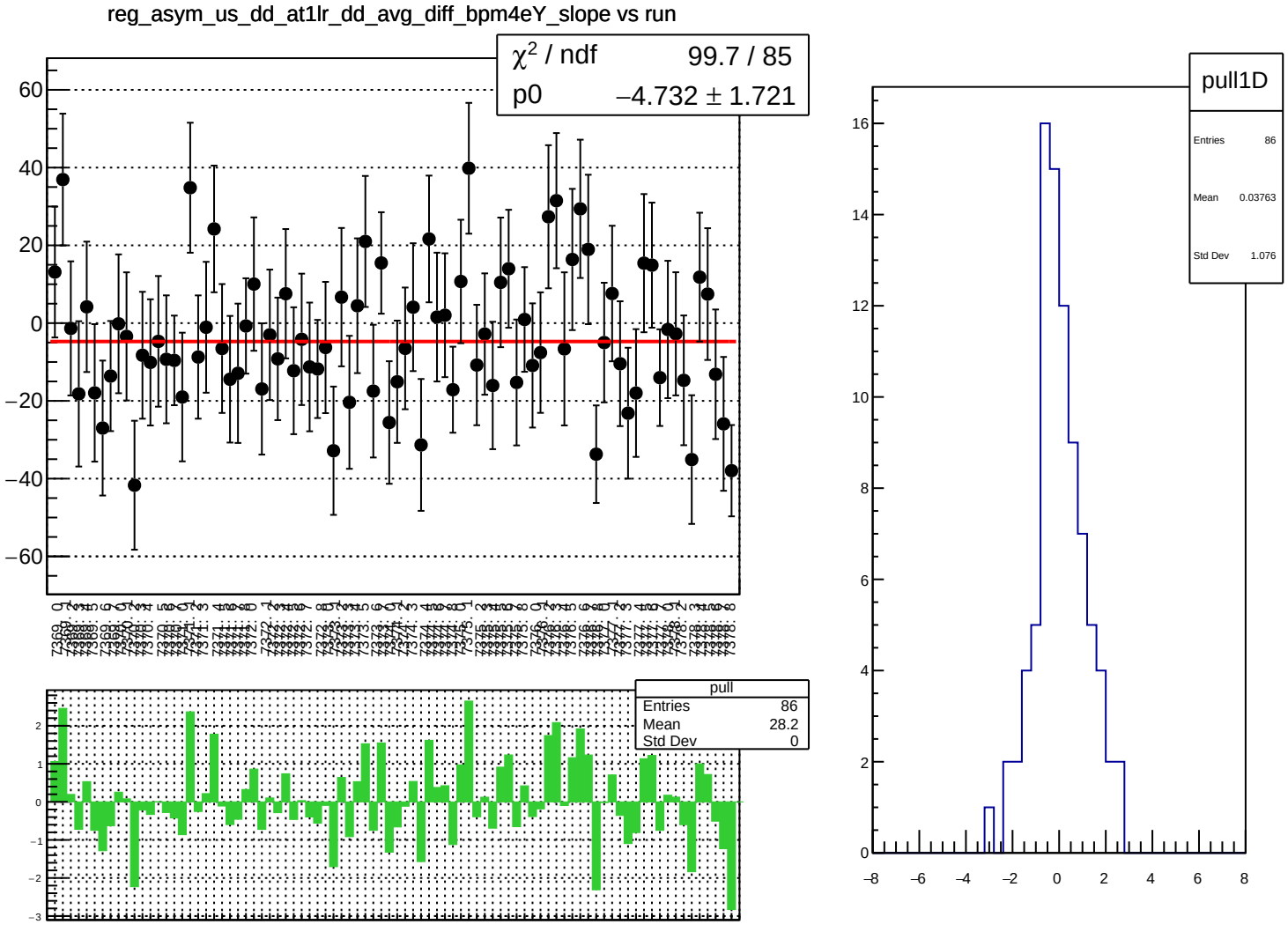

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 42.42 / 85
p0 94.23 ± 0.1257
pull
Entries 86
Mean −184.7
Std Dev 0
pull1D
Entries 86
Mean −0.04402
Std Dev 0.7009

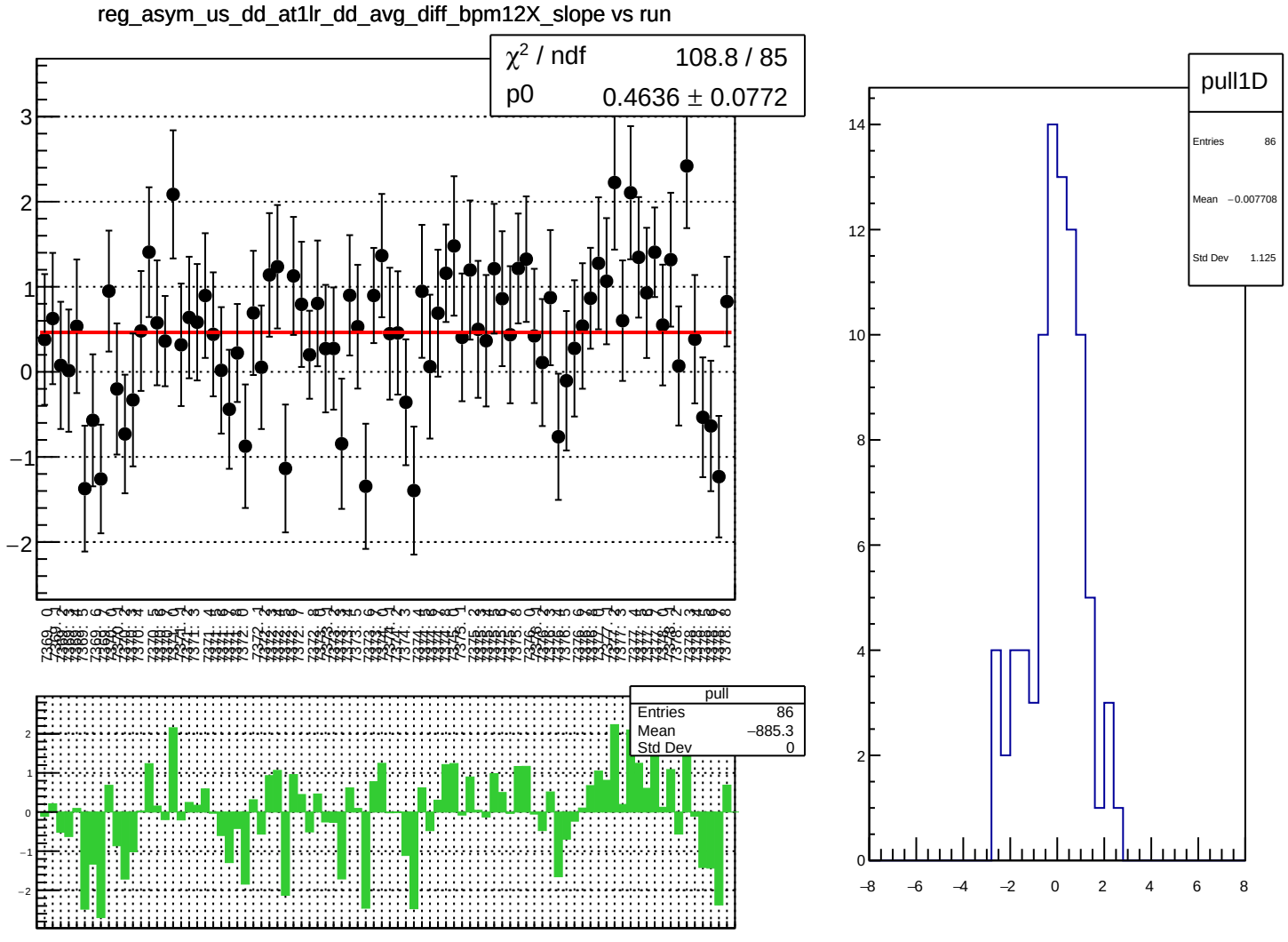

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 67.06 / 85
p0 2.479 ± 1.475
pull
Entries 86
Mean 44.49
Std Dev 76.53
pull1D
Entries 86
Mean 0.02771
Std Dev 0.8826

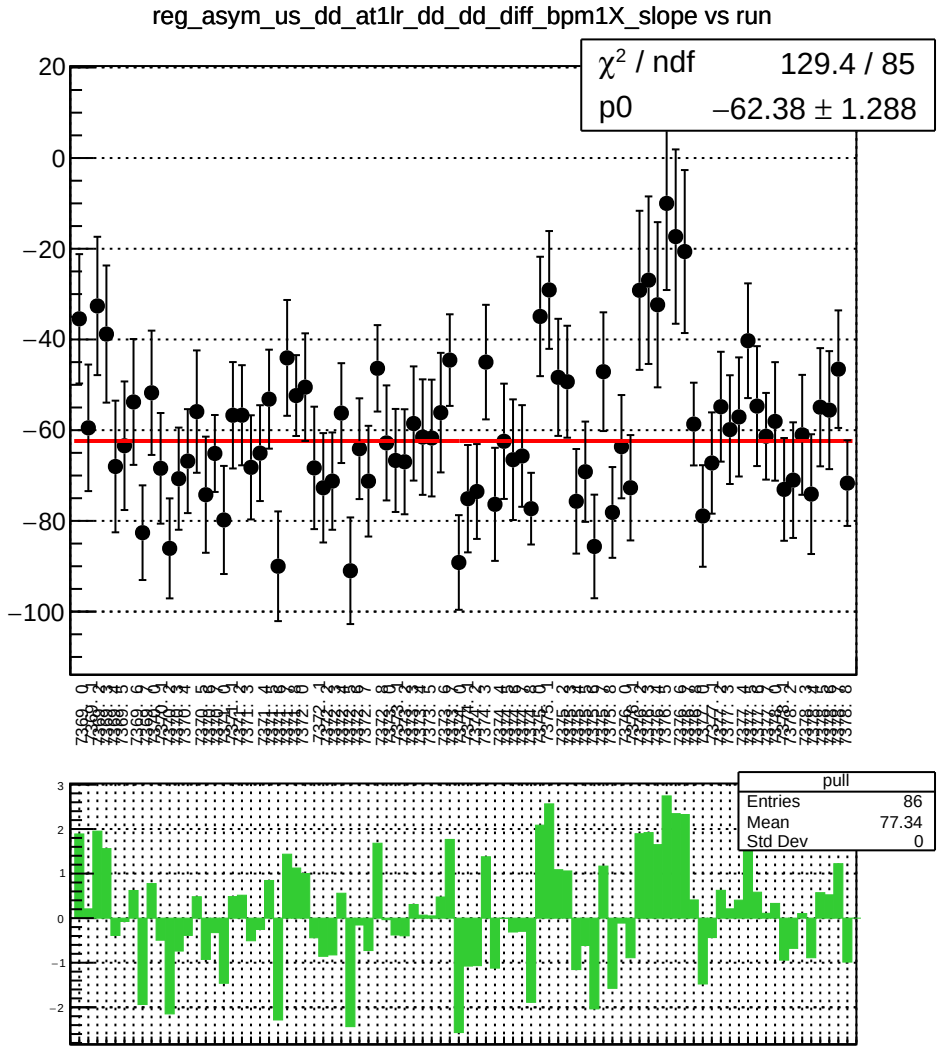

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 92.28 / 85
p0 6.604 ± 1.621
pull
Entries 86
Mean 4.555
Std Dev 0
pull1D
Entries 86
Mean −0.03778
Std Dev 1.035

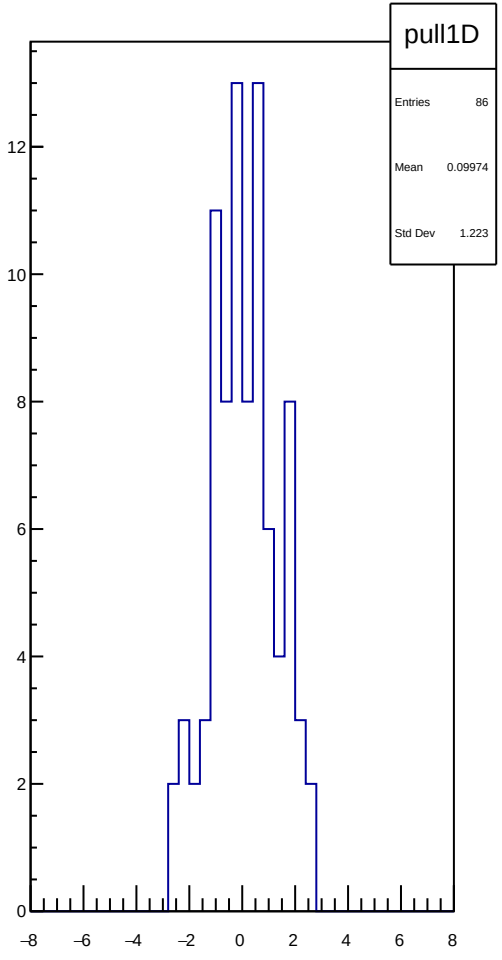

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.22 / 85
p0 −11.68 ± 1.531
pull
Entries 86
Mean 52.68
Std Dev 84.63

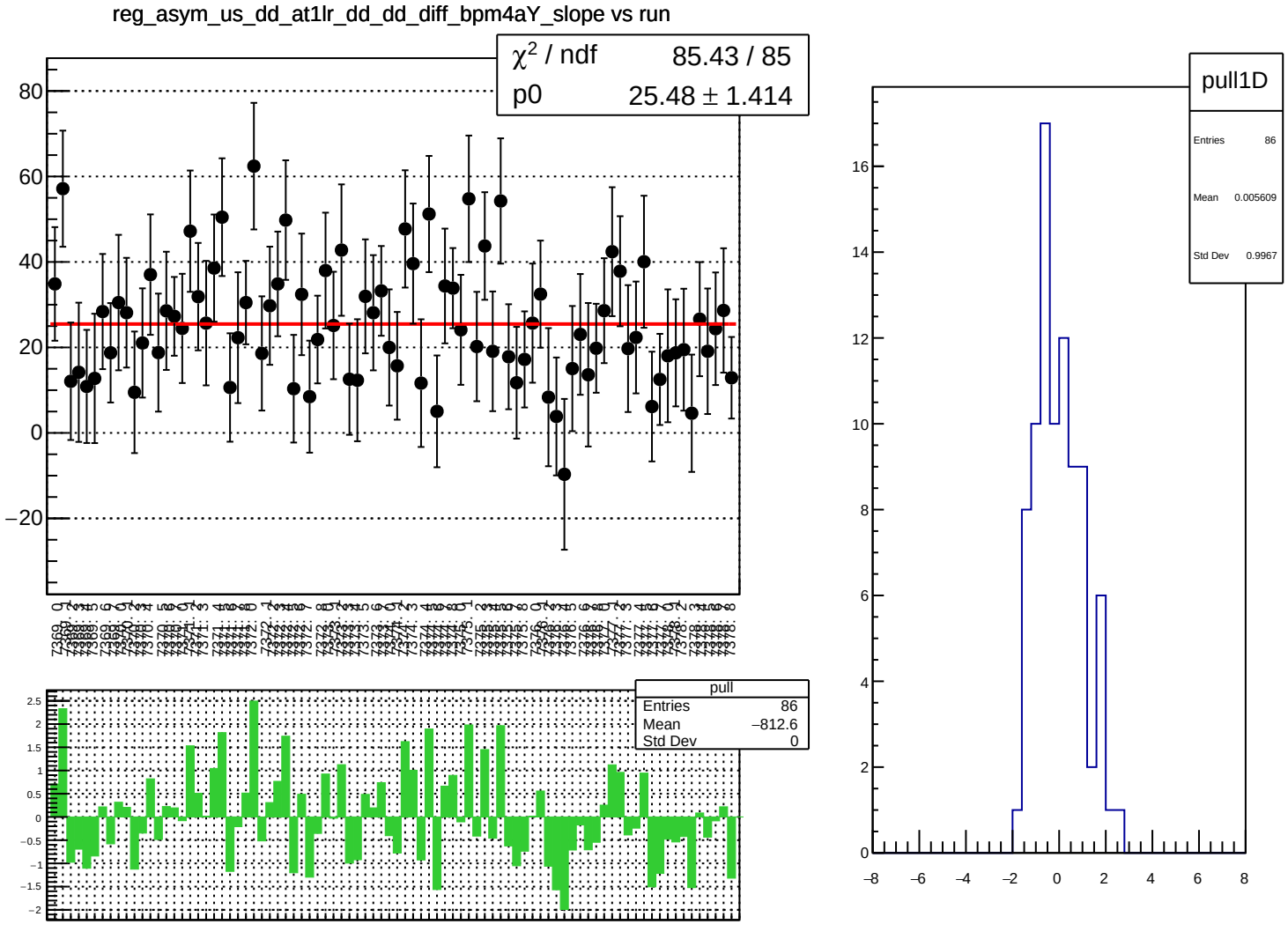

pull1D
Entries 86
Mean −0.02348
Std Dev 0.857

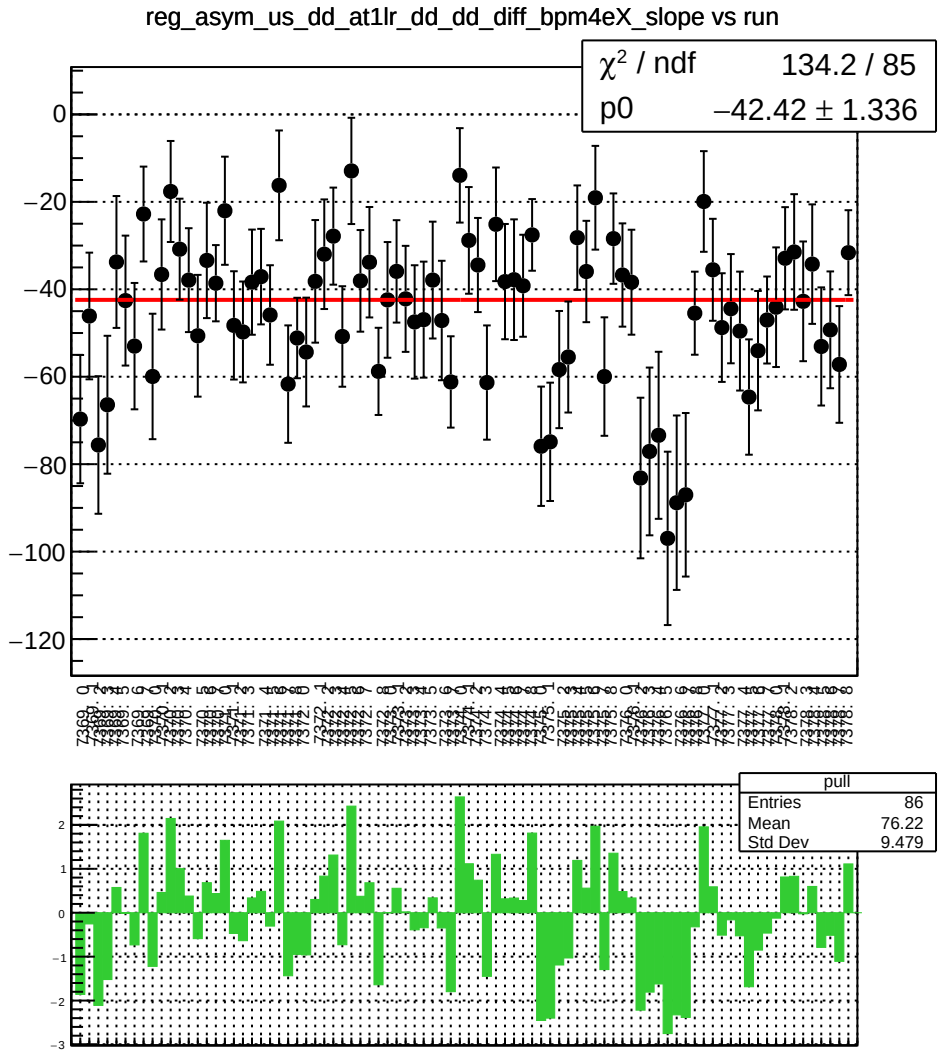

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 99.7 / 85
p0 −4.732 ± 1.721
pull
Entries 86
Mean 28.2
Std Dev 0
pull1D
Entries 86
Mean 0.03763
Std Dev 1.076

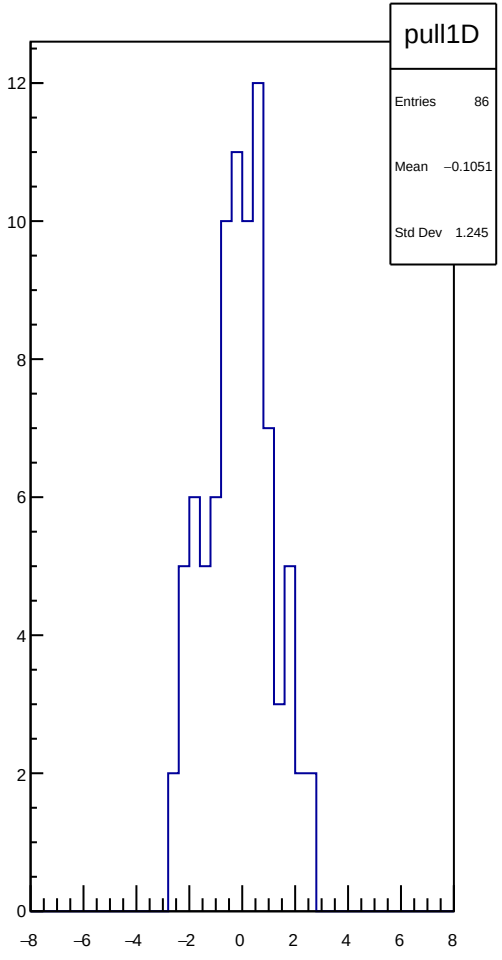

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 108.8 / 85
p0 0.4636 ± 0.0772
pull
Entries 86
Mean −885.3
Std Dev 0
pull1D
Entries 86
Mean −0.007708
Std Dev 1.125

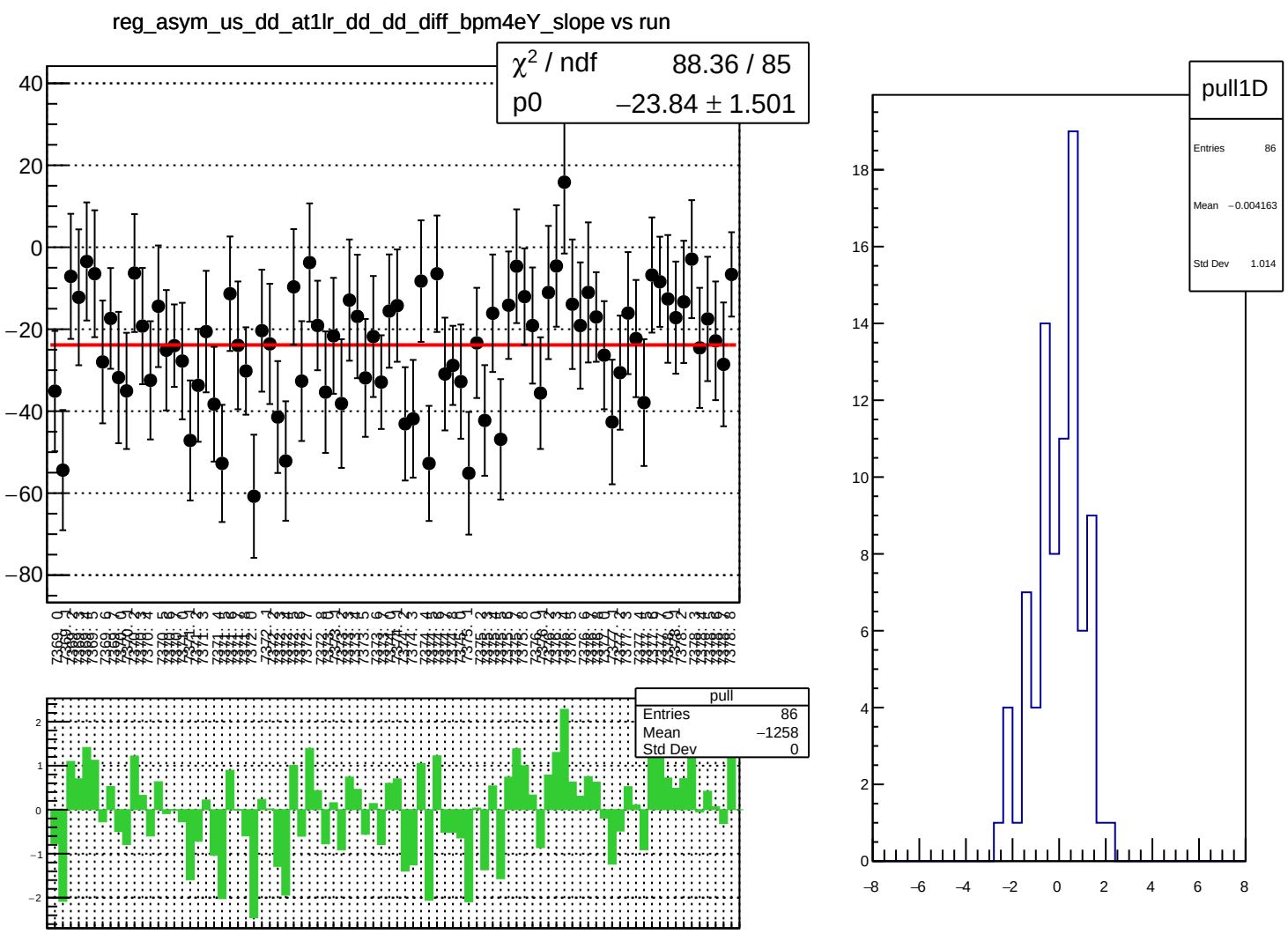

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 129.4 / 85
p0 −62.38 ± 1.288
pull
Entries 86
Mean 77.34
Std Dev 0

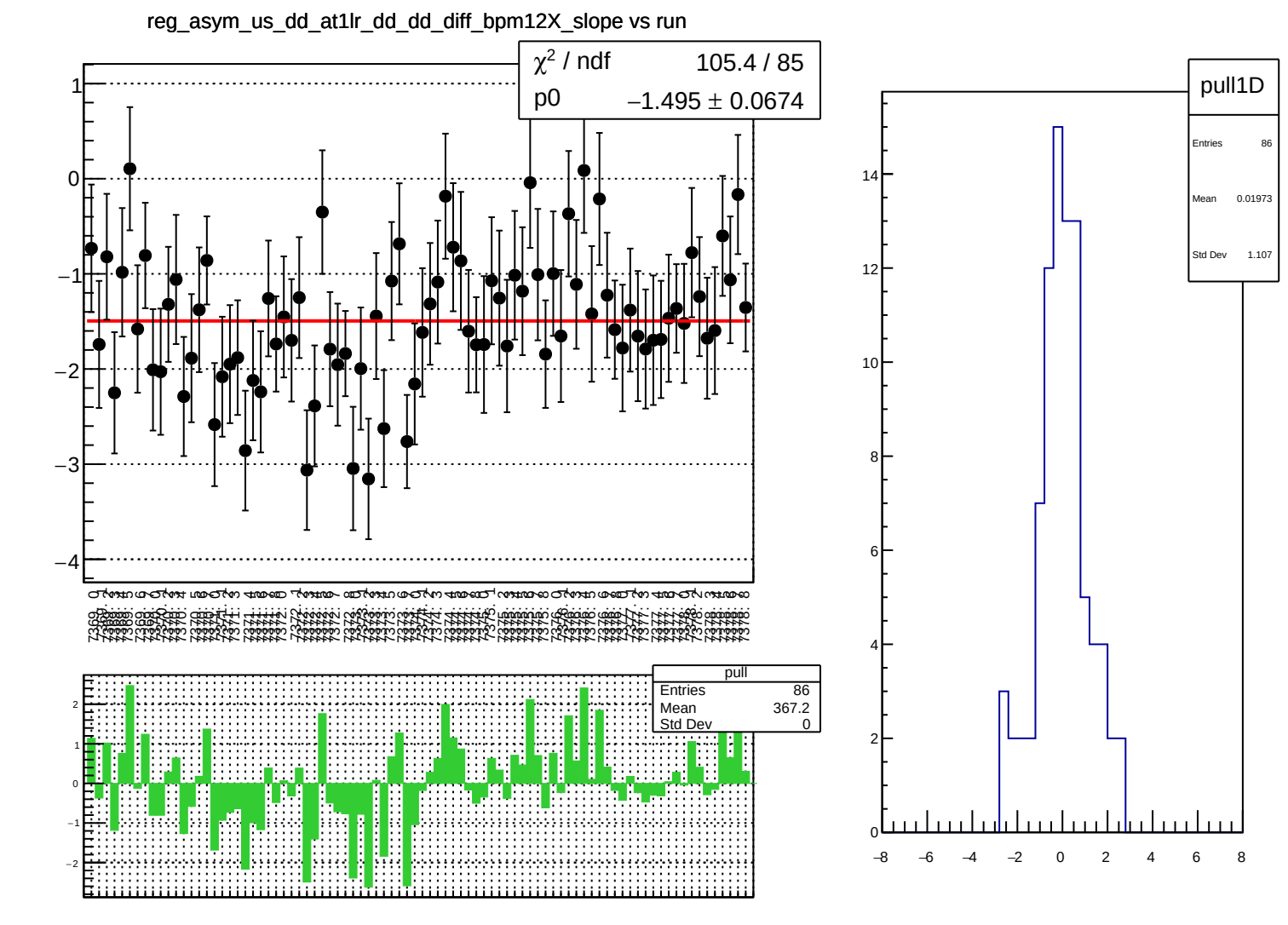

pull1D
Entries 86
Mean 0.09974
Std Dev 1.223

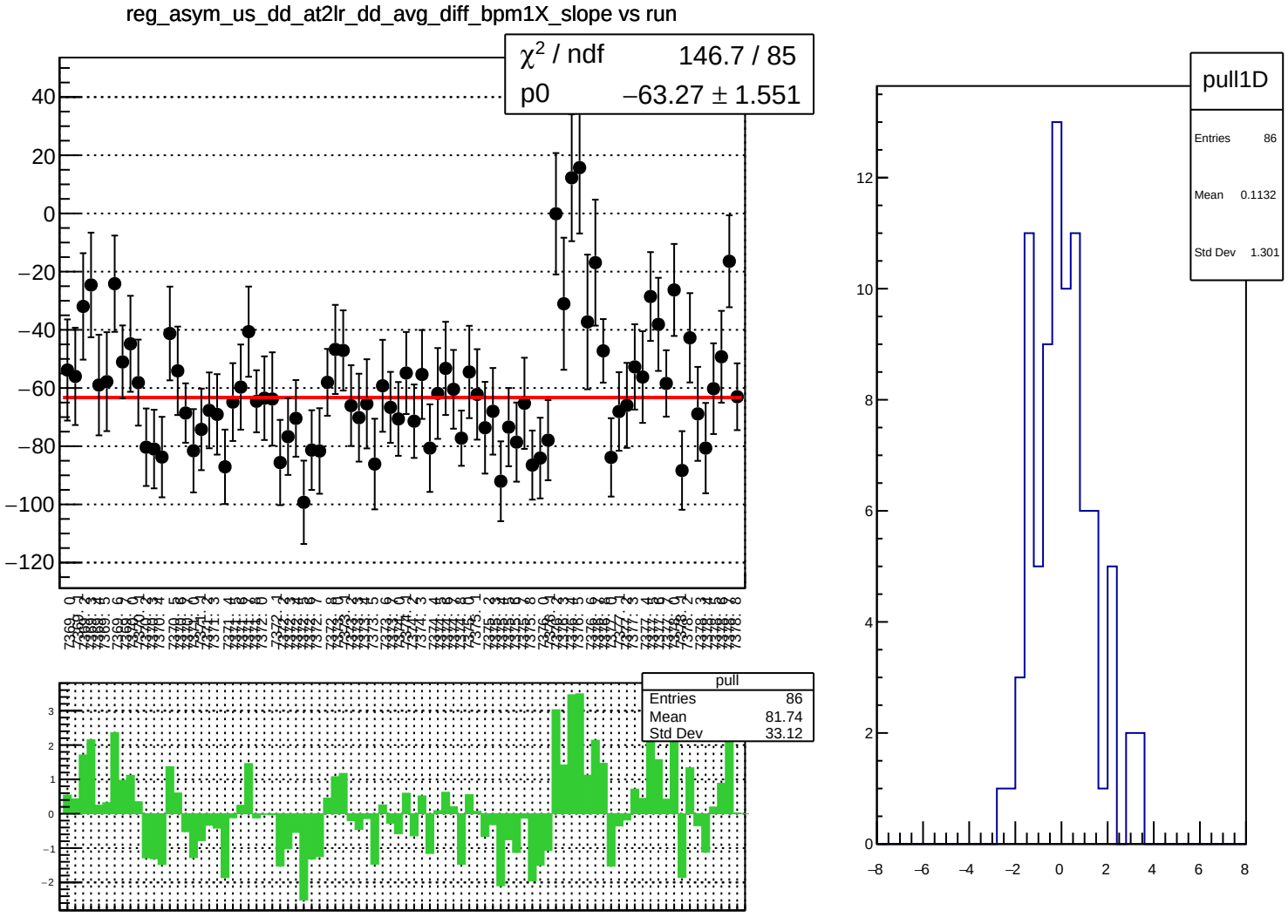

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.43 / 85
p0 25.48 ± 1.414
pull
Entries 86
Mean −812.6
Std Dev 0
pull1D
Entries 86
Mean 0.005609
Std Dev 0.9967

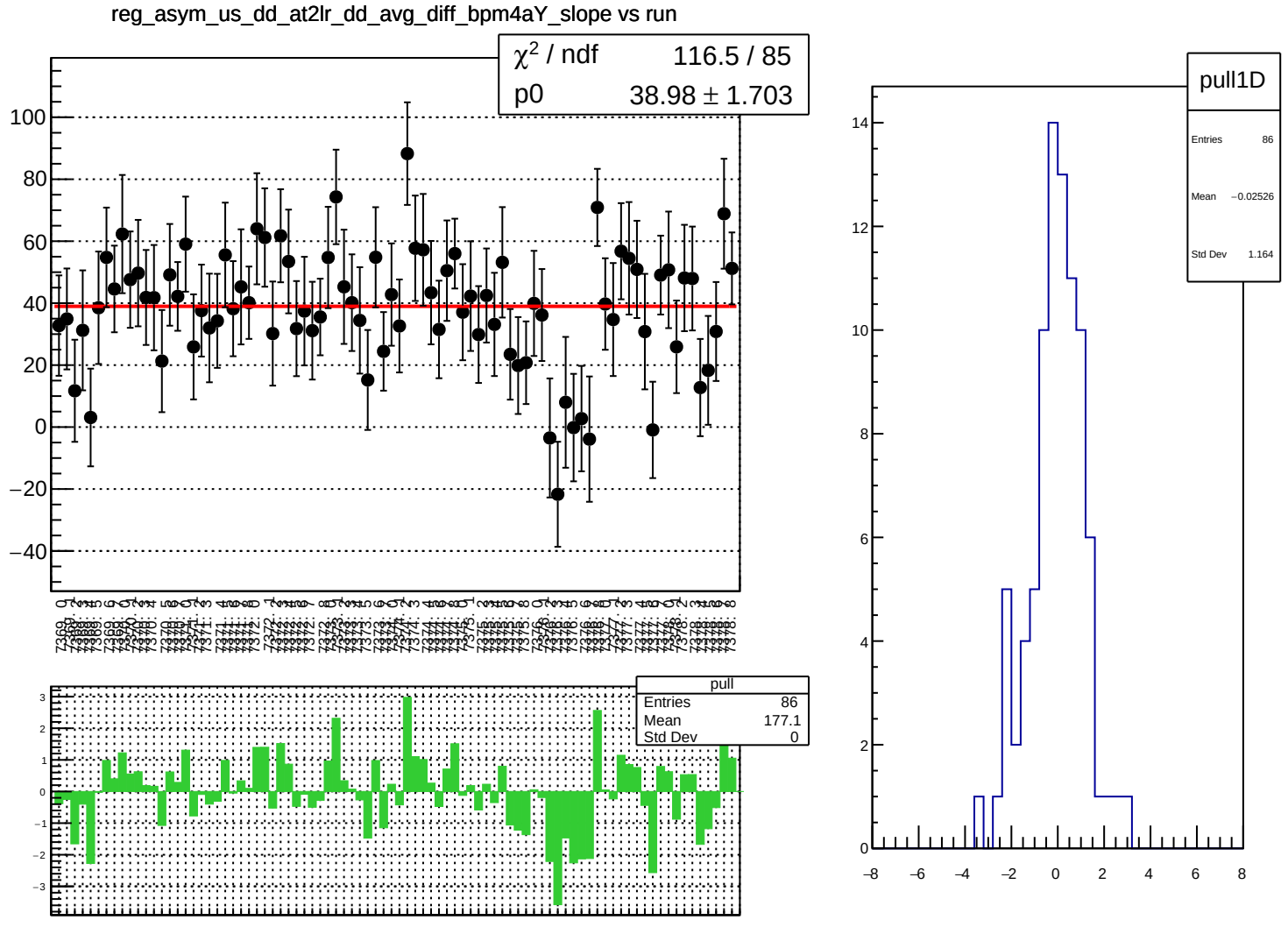

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 134.2 / 85
p0 −42.42 ± 1.336
pull
Entries 86
Mean 76.22
Std Dev 9.479

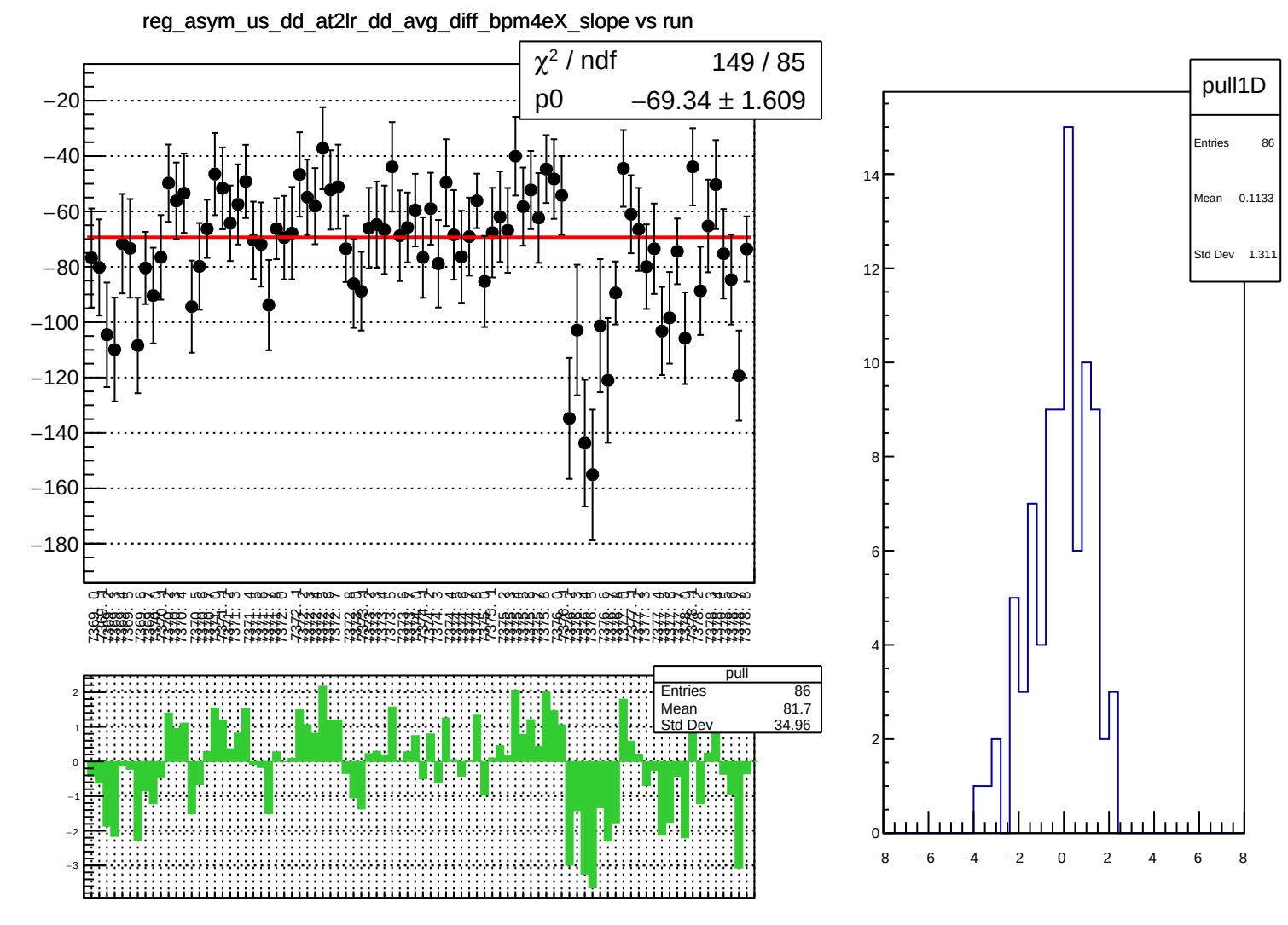

pull1D
Entries 86
Mean −0.1051
Std Dev 1.245

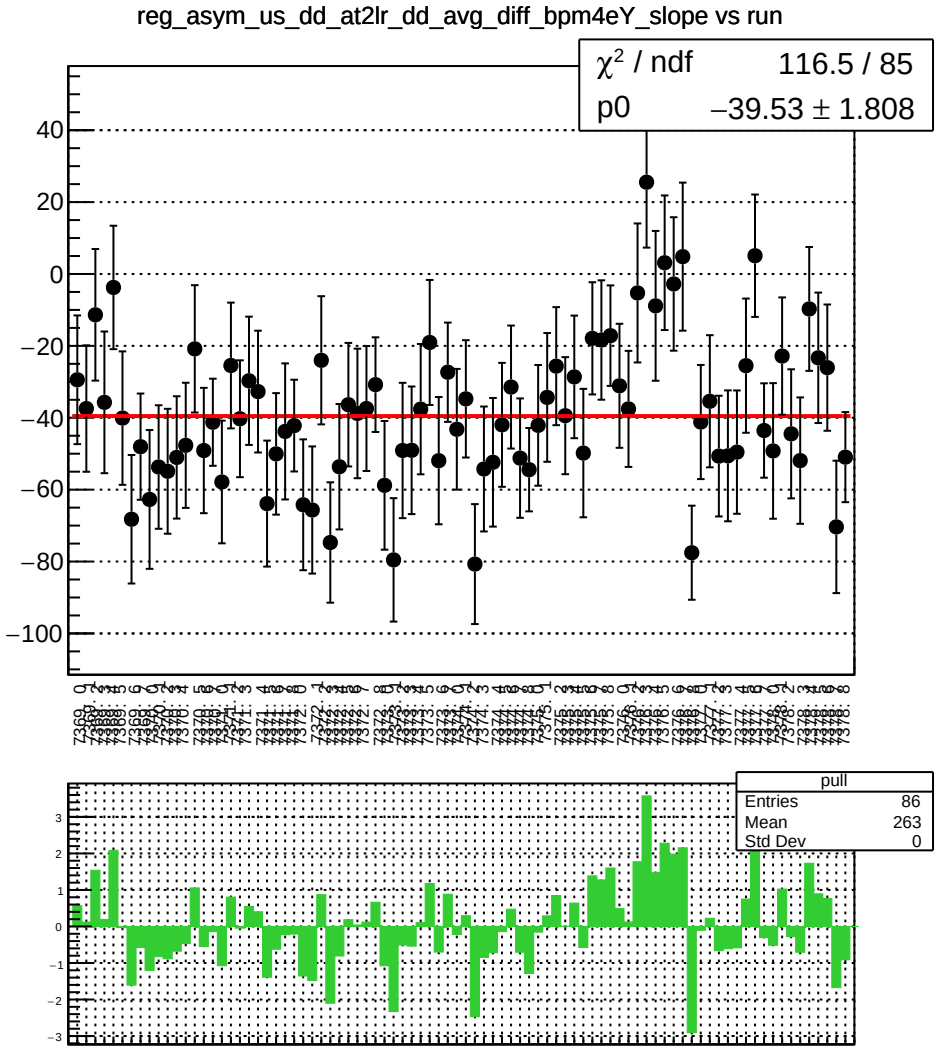

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.36 / 85
p0 −23.84 ± 1.501
pull
Entries 86
Mean −1258
Std Dev 0
pull1D
Entries 86
Mean −0.004163
Std Dev 1.014

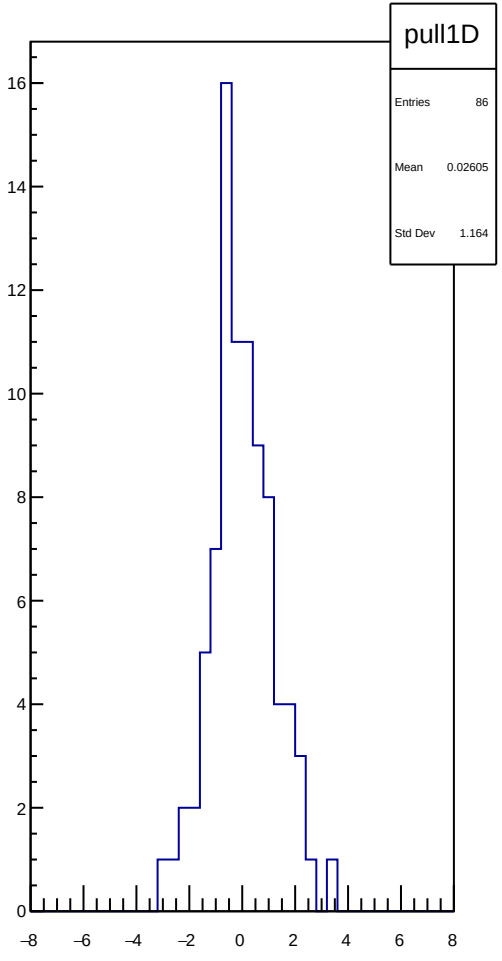

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 105.4 / 85
p0 −1.495 ± 0.0674
pull
Entries 86
Mean 367.2
Std Dev 0
pull1D
Entries 86
Mean 0.01973
Std Dev 1.107

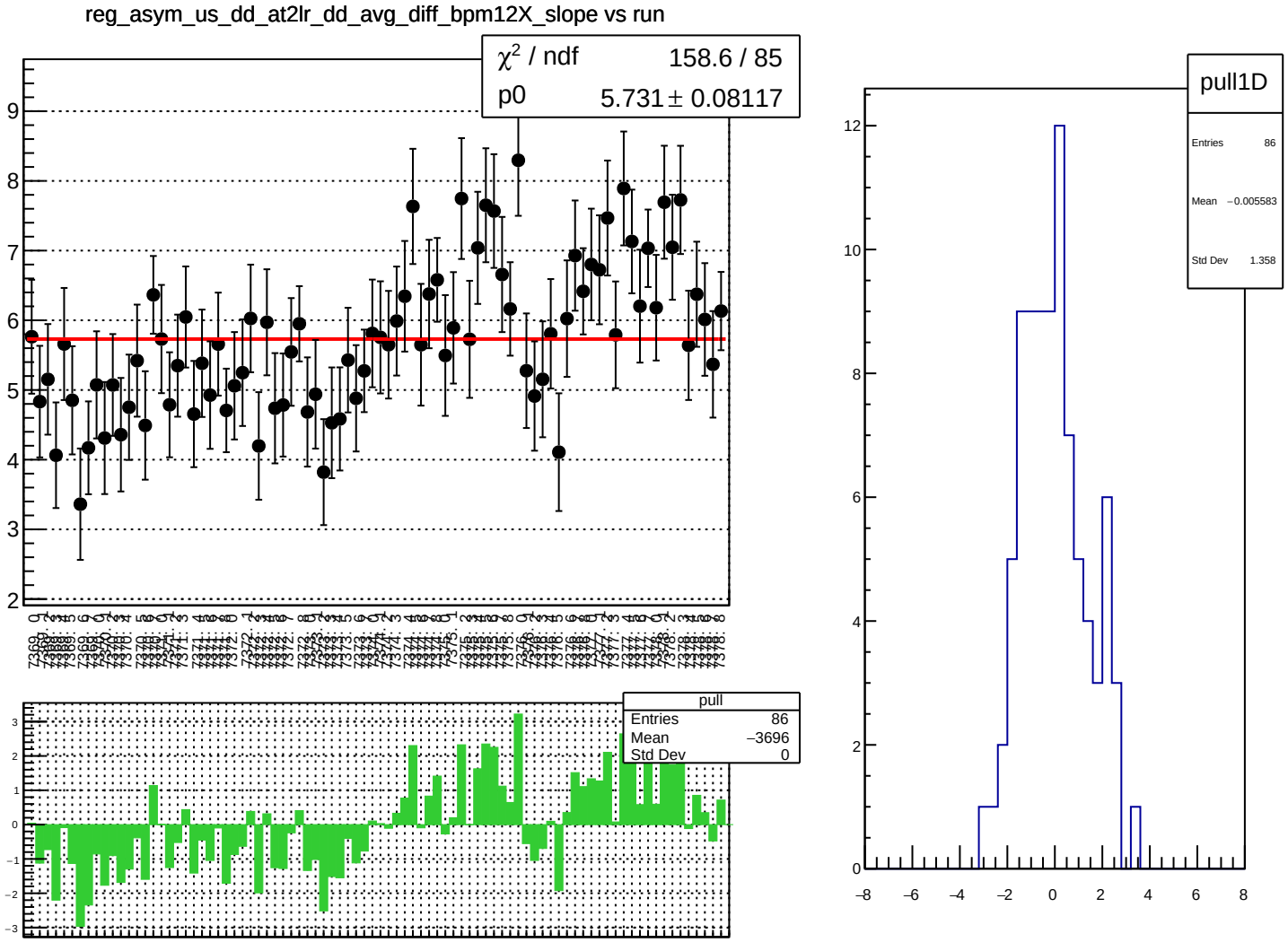

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 146.7 / 85
p0 −63.27 ± 1.551
pull
Entries 86
Mean 81.74
Std Dev 33.12
pull1D
Entries 86
Mean 0.1132
Std Dev 1.301

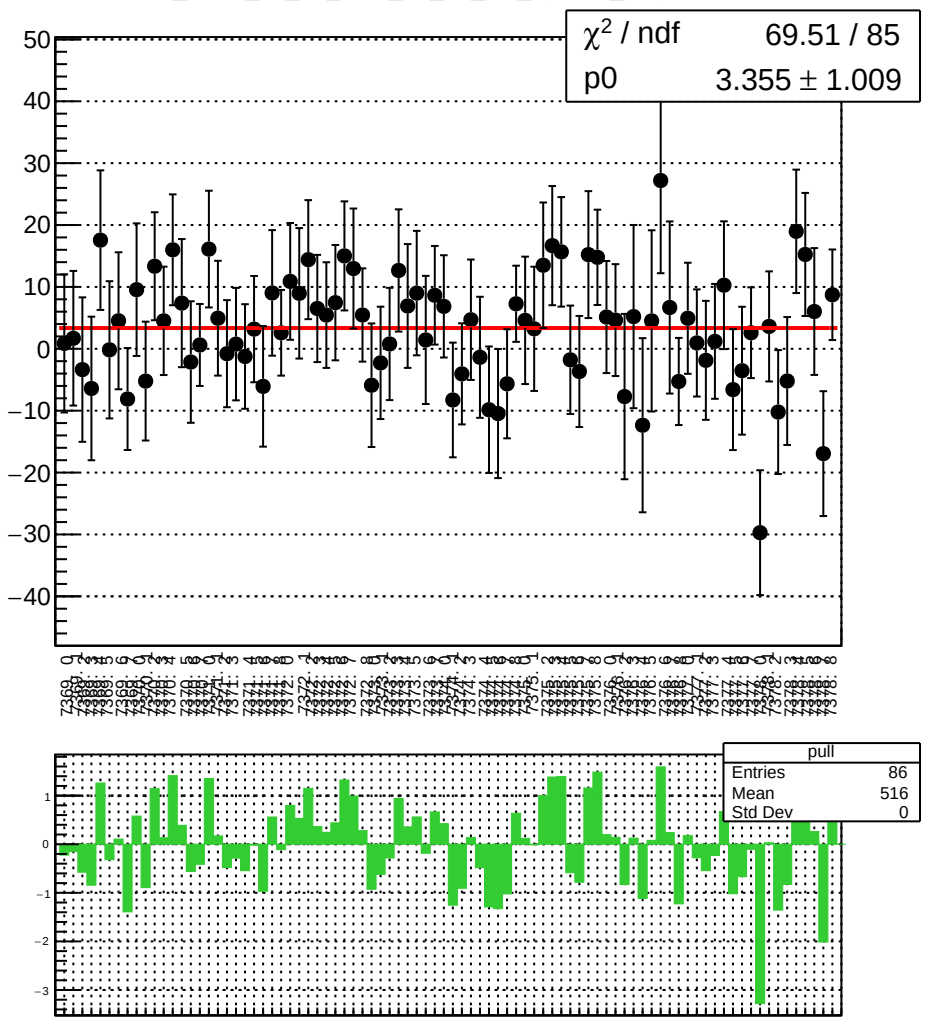

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 116.5 / 85
p0 38.98 ± 1.703
pull
Entries 86
Mean 177.1
Std Dev 0
pull1D
Entries 86
Mean −0.02526
Std Dev 1.164

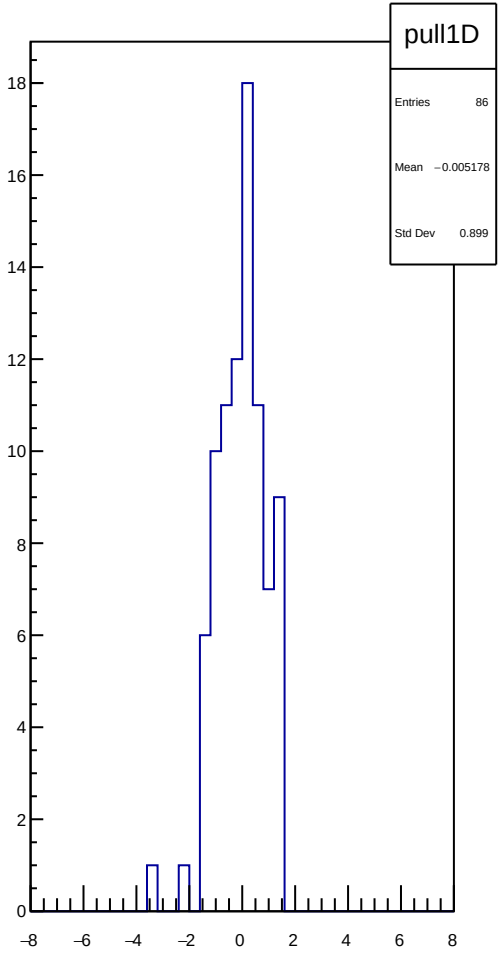

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 149 / 85
p0 −69.34 ± 1.609
pull
Entries 86
Mean 81.7
Std Dev 34.96
pull1D
Entries 86
Mean −0.1133
Std Dev 1.311

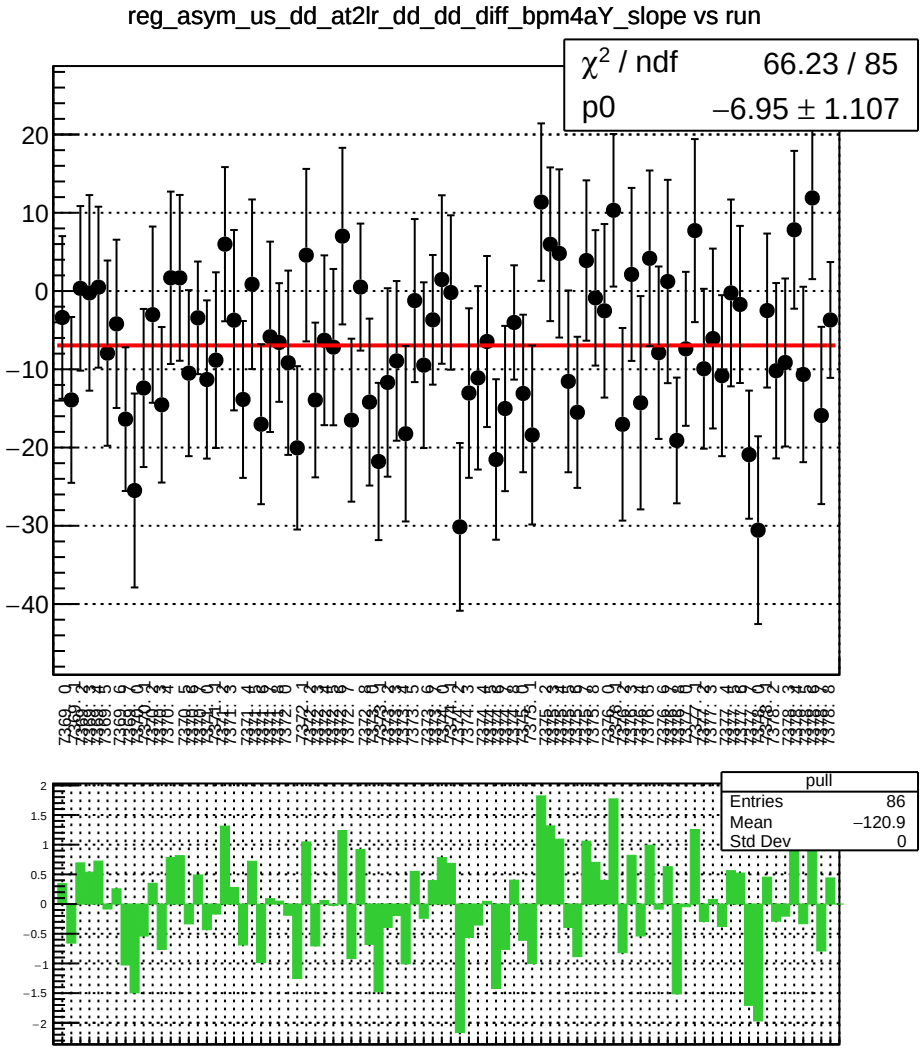

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 116.5 / 85
p0 −39.53 ± 1.808
pull
Entries 86
Mean 263
Std Dev 0

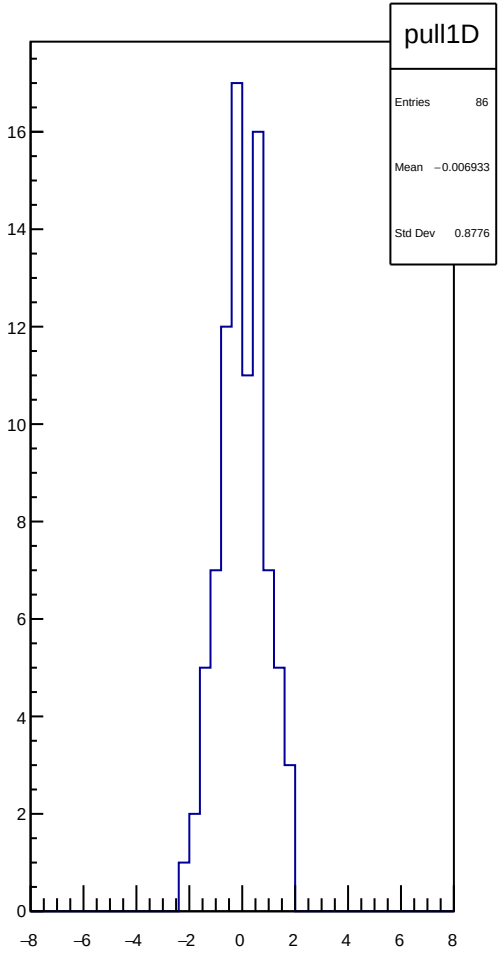

pull1D
Entries 86
Mean 0.02605
Std Dev 1.164

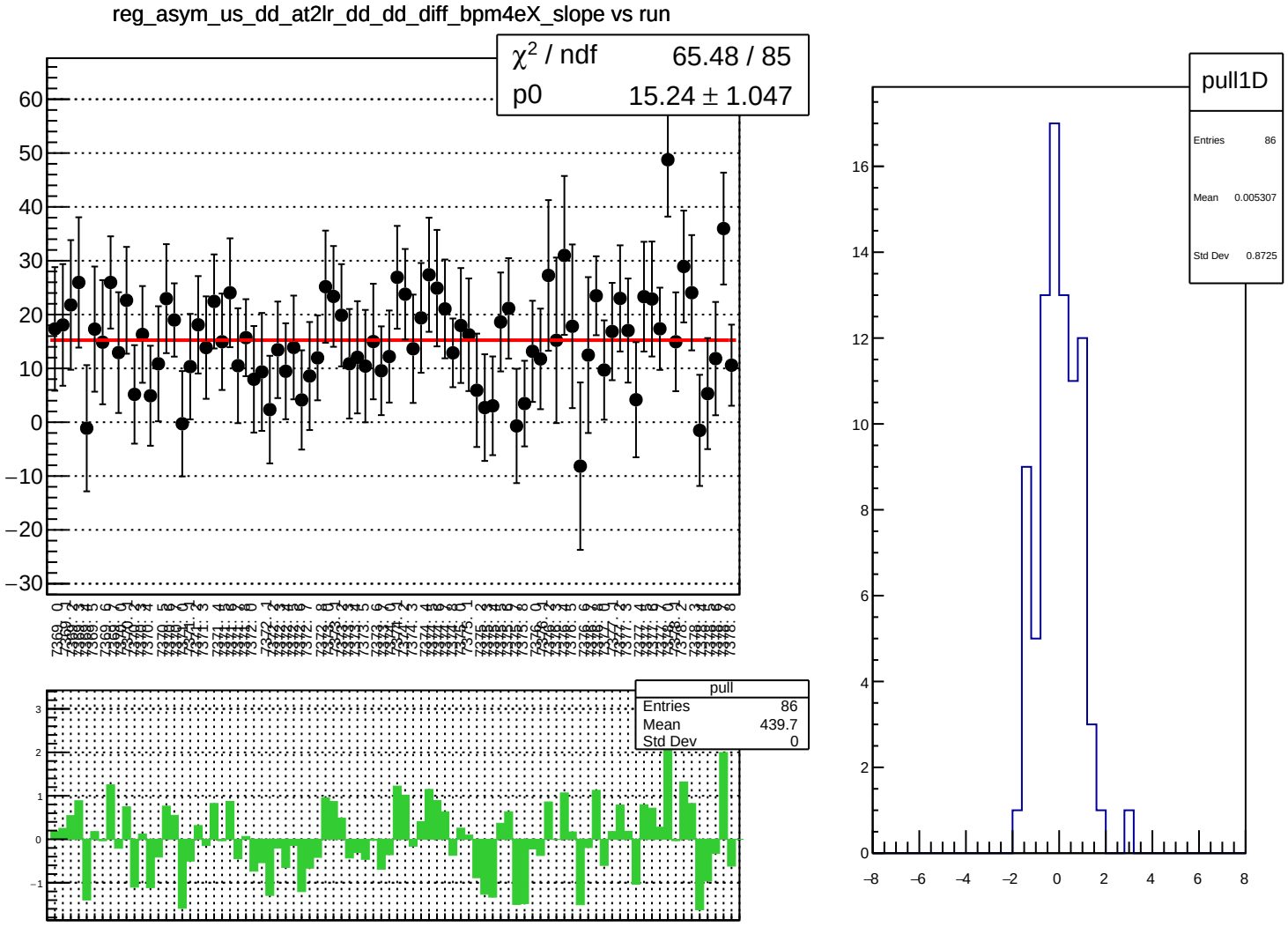

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 158.6 / 85
p0 5.731 ± 0.08117
pull
Entries 86
Mean −3696
Std Dev 0
pull1D
Entries 86
Mean −0.005583
Std Dev 1.358

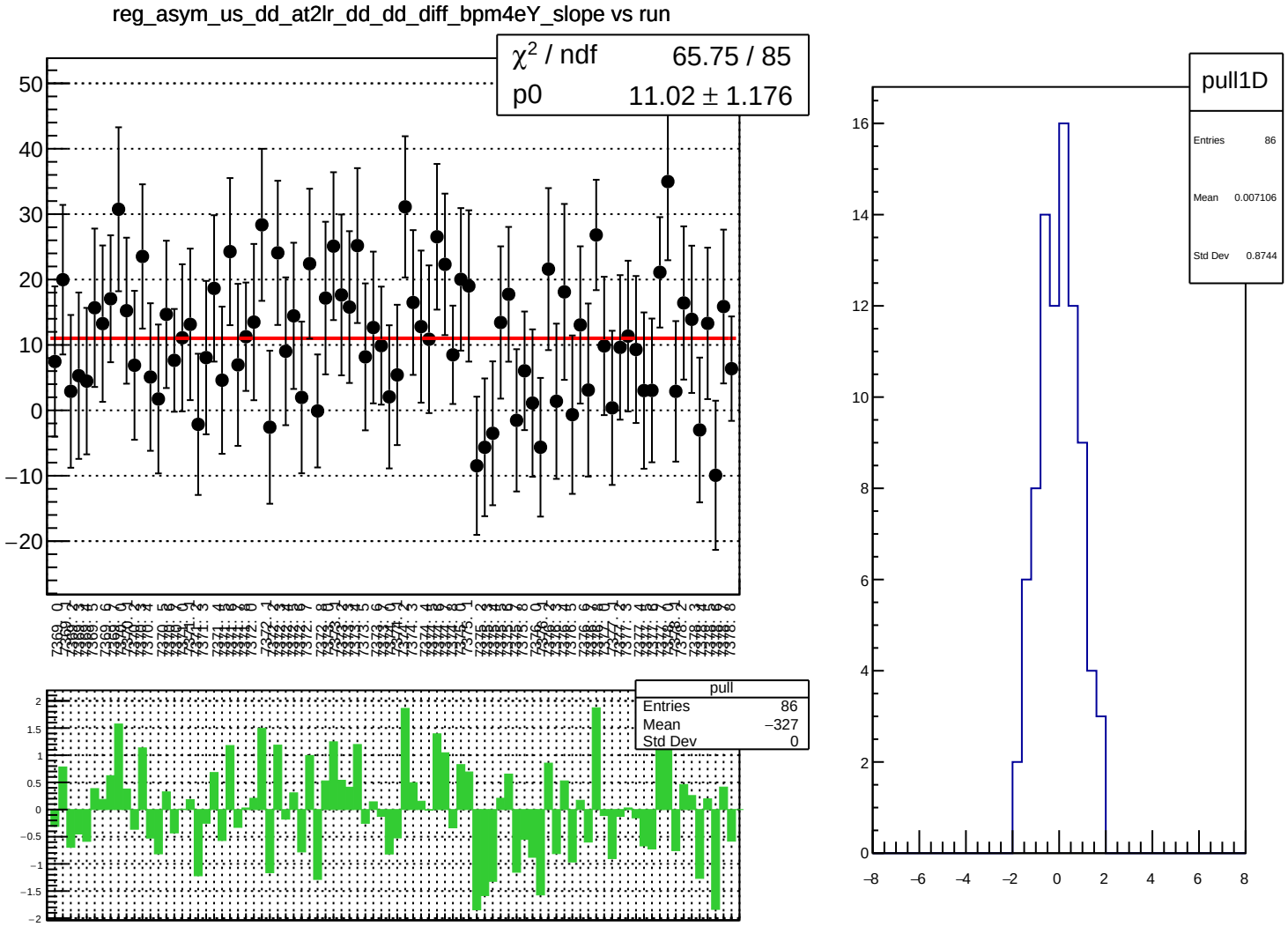

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 69.51 / 85
p0 3.355 ± 1.009
pull
Entries 86
Mean 516
Std Dev 0

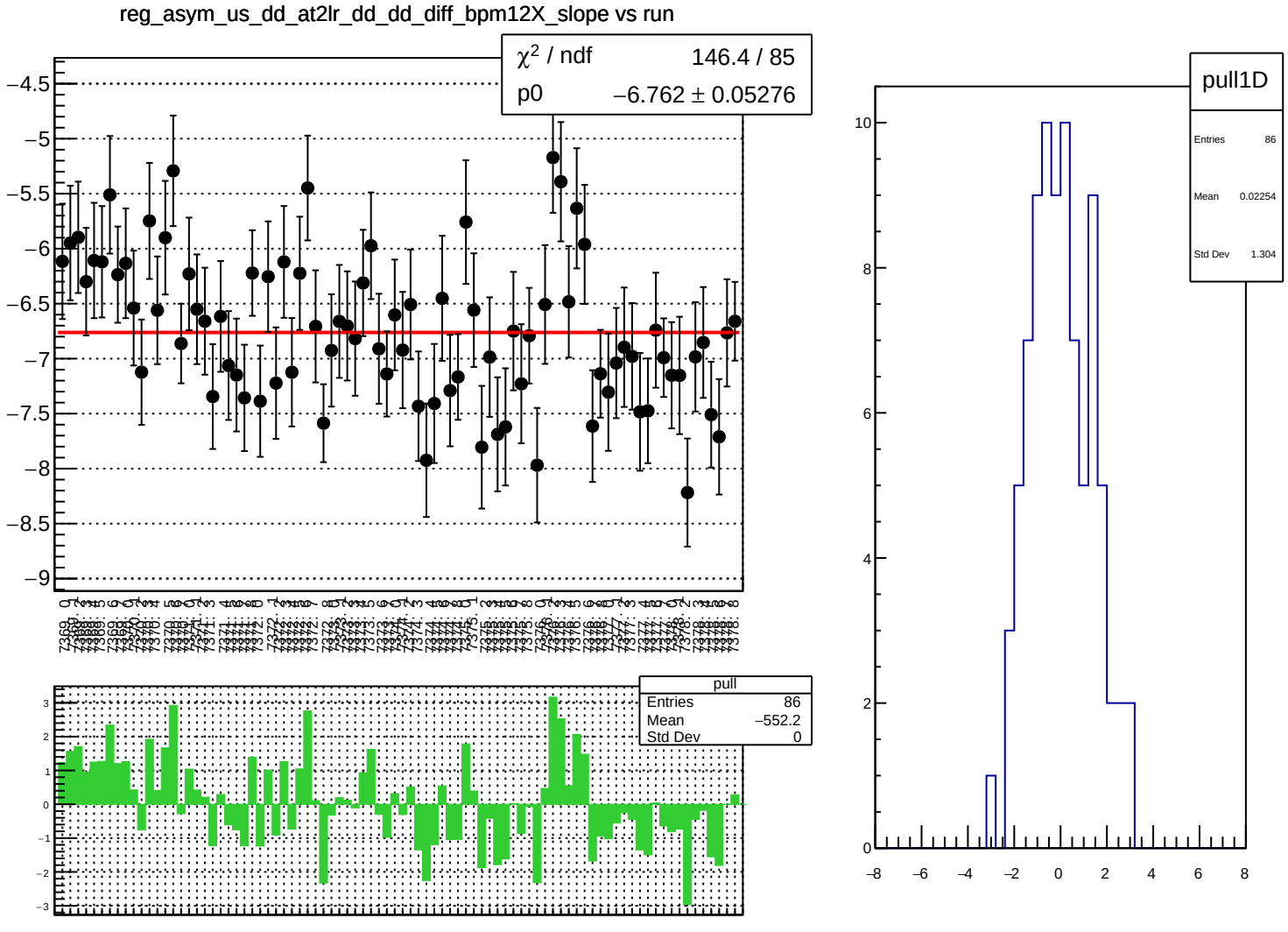

pull1D
Entries 86
Mean −0.005178
Std Dev 0.899

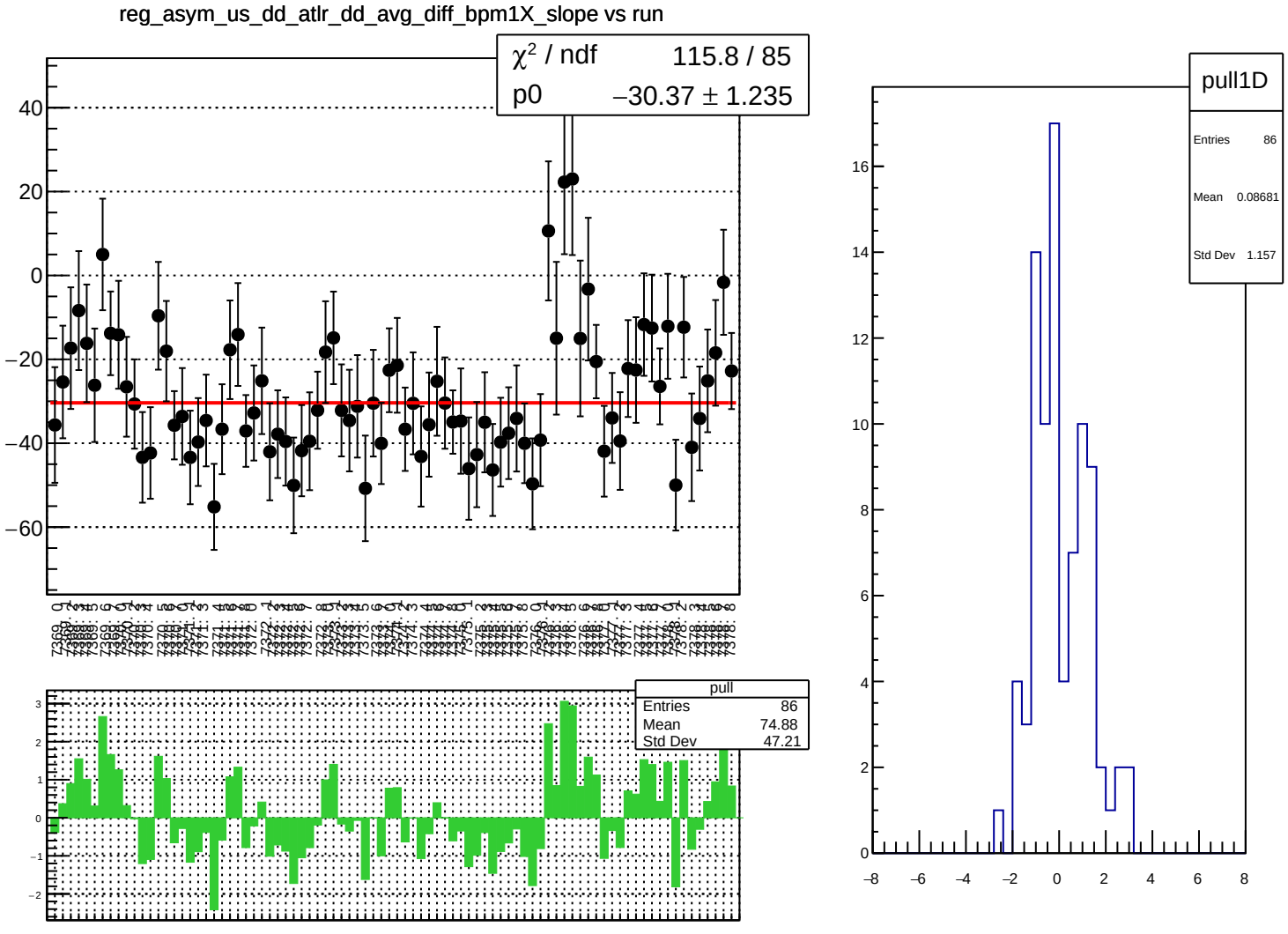

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.23 / 85
p0 −6.95 ± 1.107
pull
Entries 86
Mean −120.9
Std Dev 0

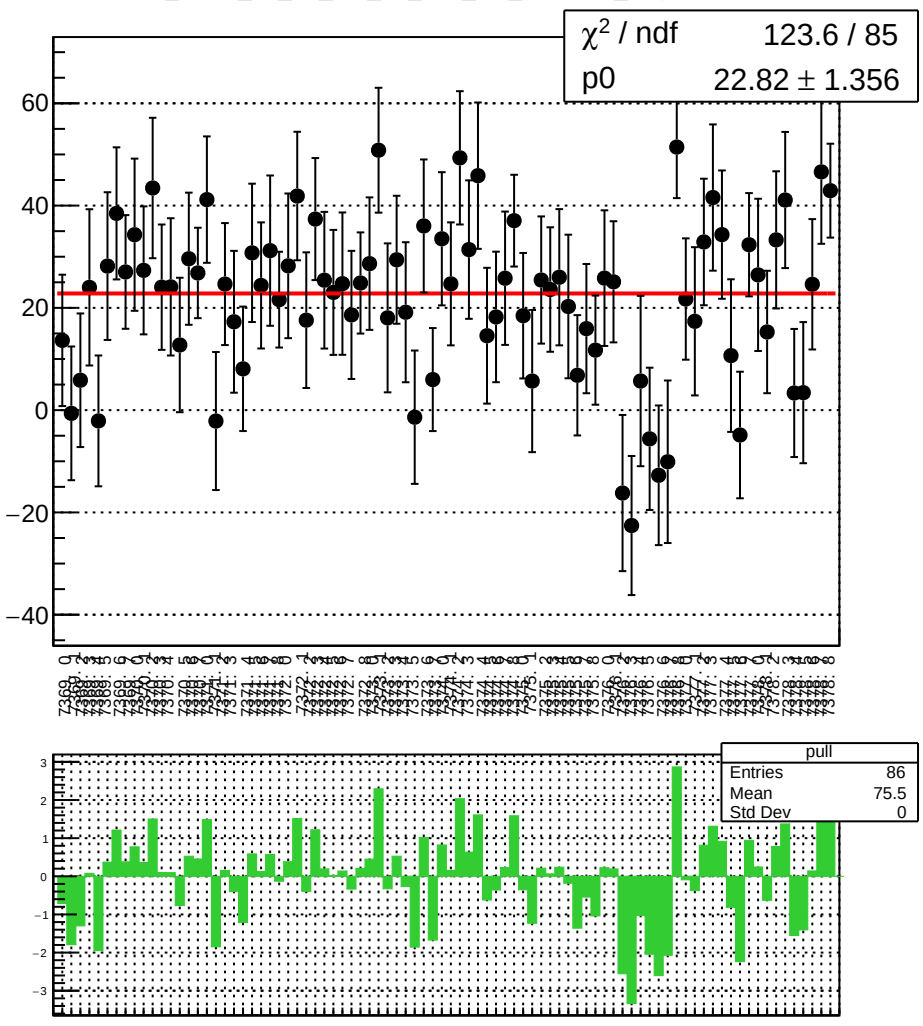

pull1D
Entries 86
Mean −0.006933
Std Dev 0.8776

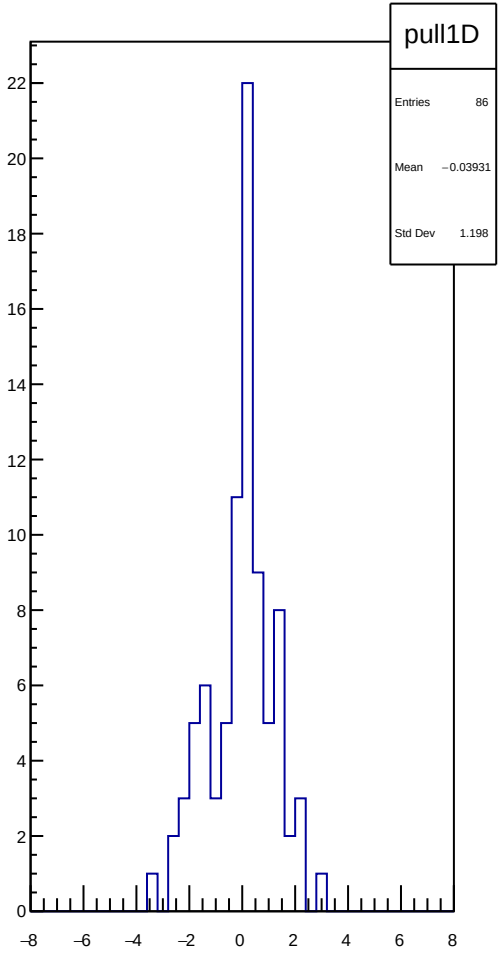

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.48 / 85
p0 15.24 ± 1.047
pull
Entries 86
Mean 439.7
Std Dev 0
pull1D
Entries 86
Mean 0.005307
Std Dev 0.8725

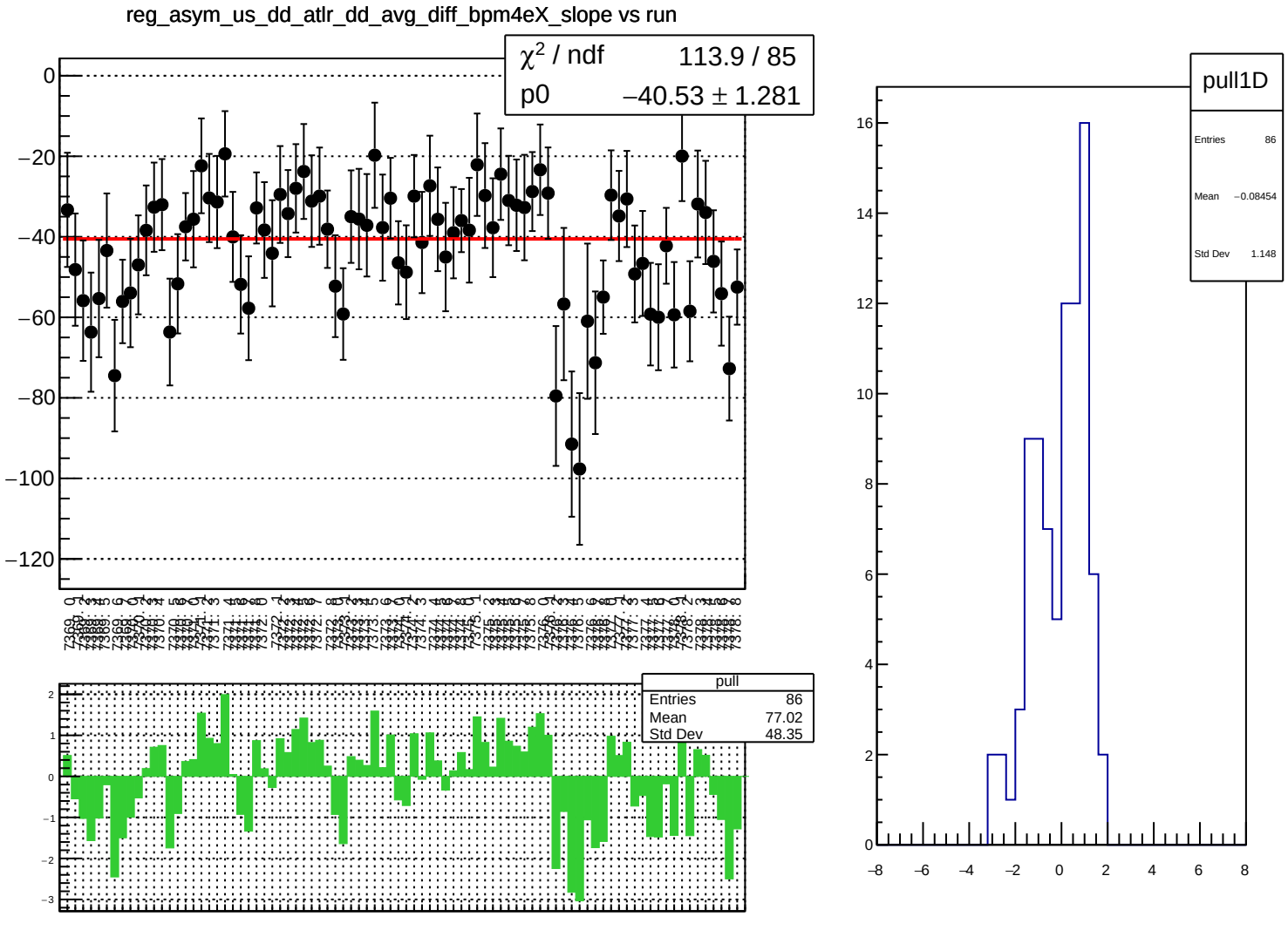

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.75 / 85
p0 11.02 ± 1.176
pull
Entries 86
Mean −327
Std Dev 0
pull1D
Entries 86
Mean 0.007106
Std Dev 0.8744

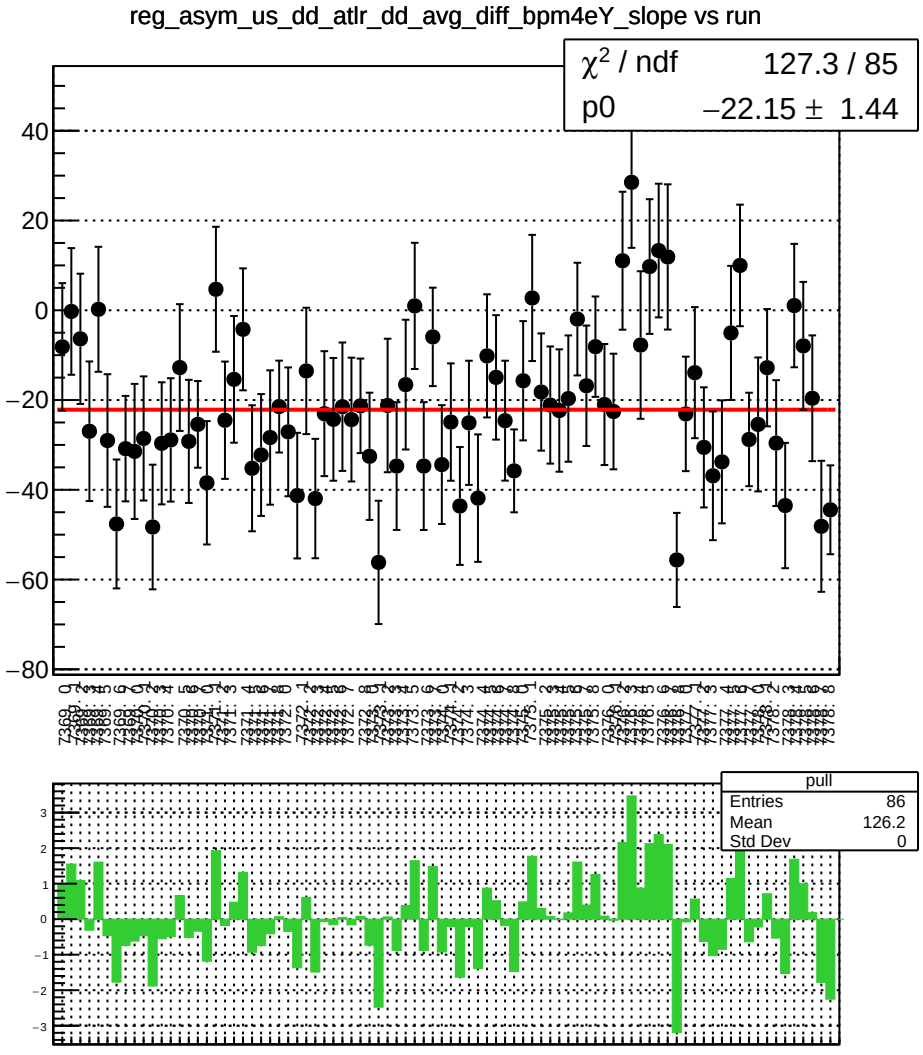

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 146.4 / 85
p0 −6.762 ± 0.05276
pull
Entries 86
Mean −552.2
Std Dev 0
pull1D
Entries 86
Mean 0.02254
Std Dev 1.304

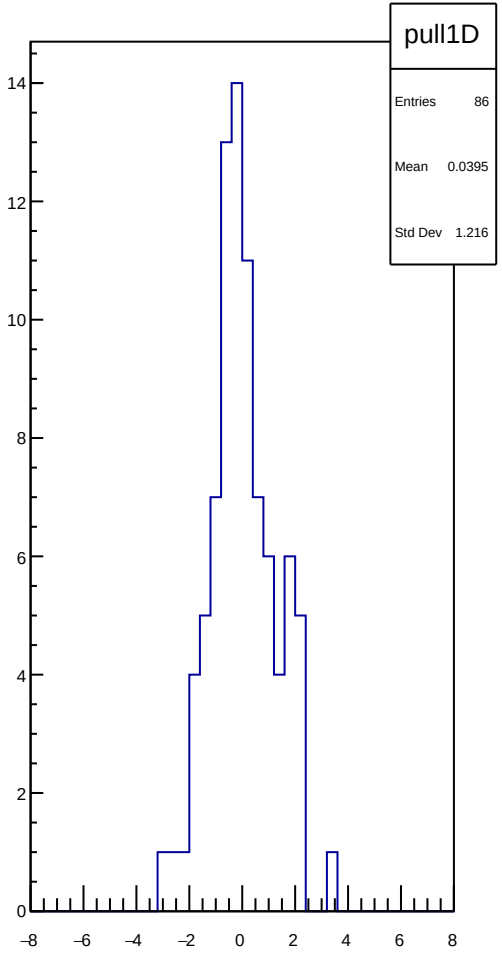

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 115.8 / 85
p0 −30.37 ± 1.235
pull
Entries 86
Mean 74.88
Std Dev 47.21
pull1D
Entries 86
Mean 0.08681
Std Dev 1.157

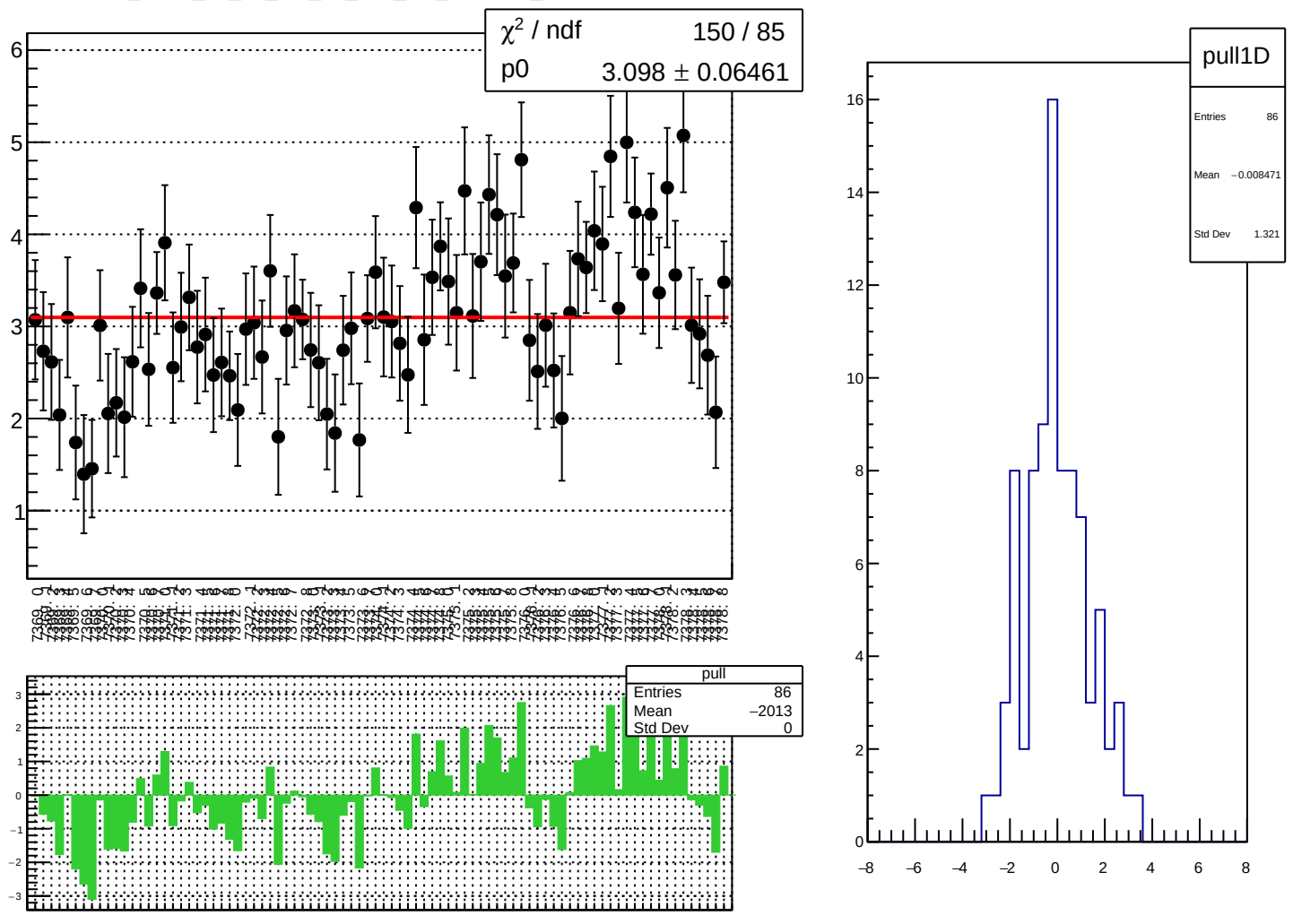

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 123.6 / 85
p0 22.82 ± 1.356
pull
Entries 86
Mean 75.5
Std Dev 0

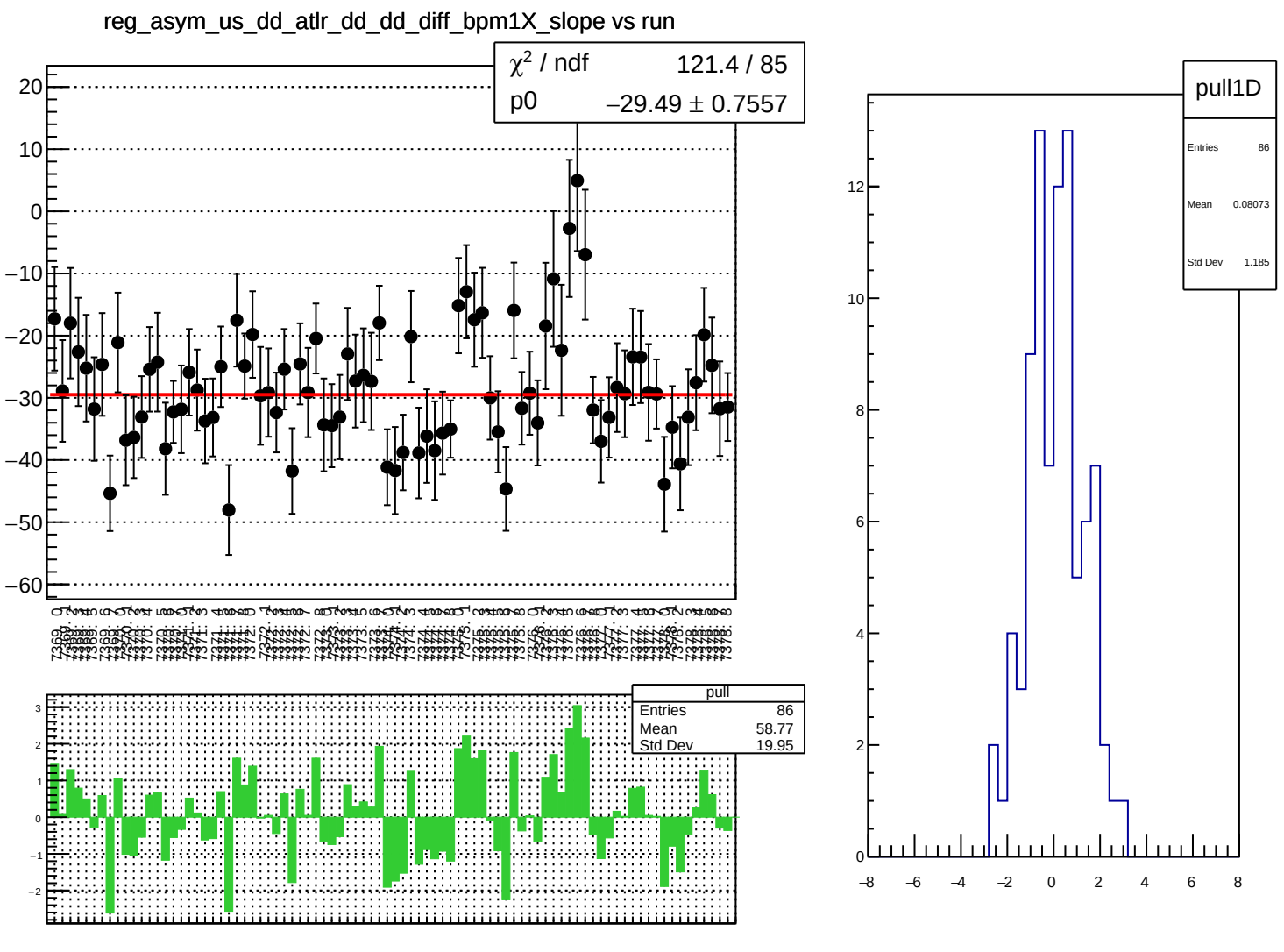

pull1D
Entries 86
Mean −0.03931
Std Dev 1.198

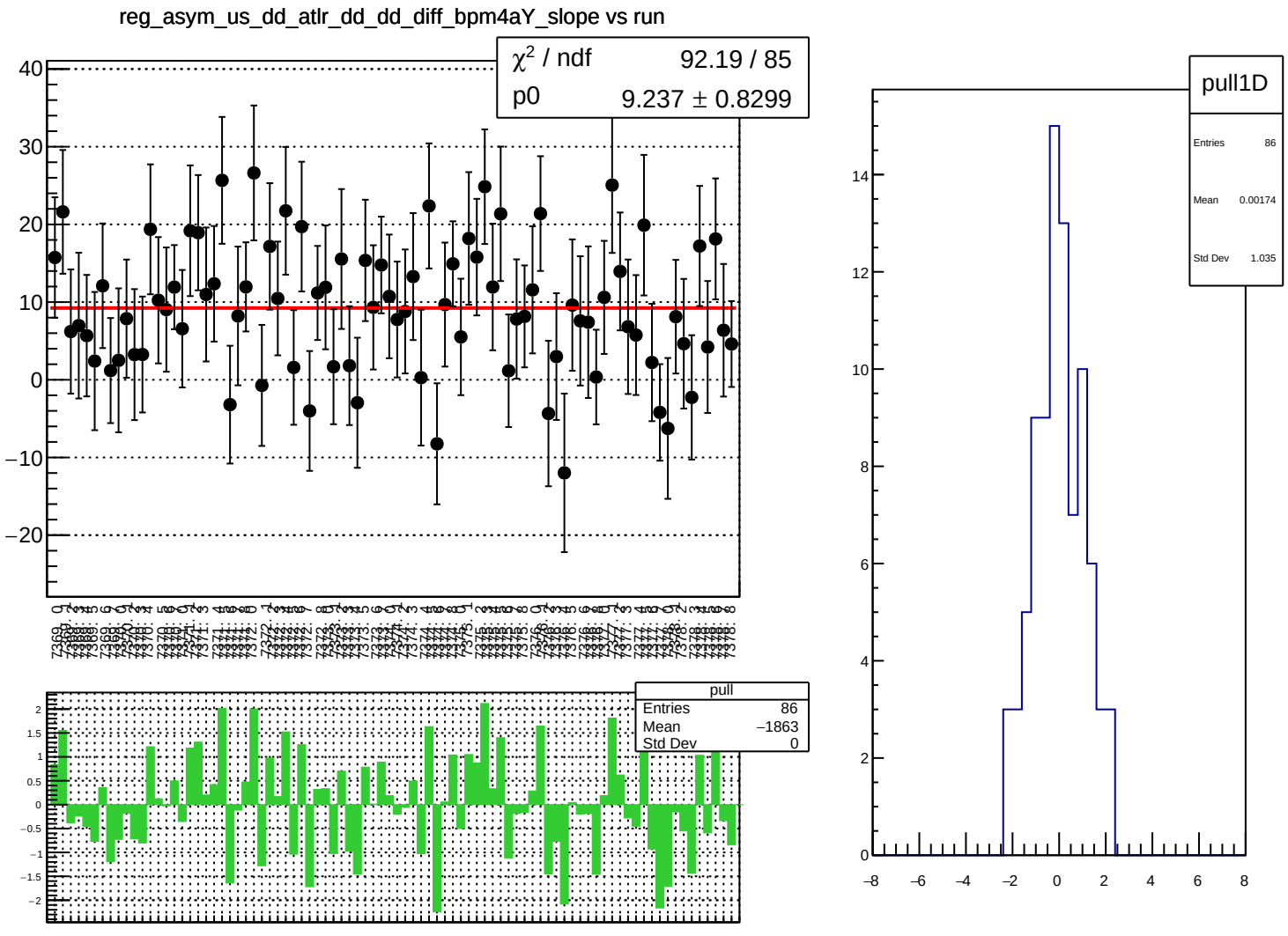

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 113.9 / 85
p0 −40.53 ± 1.281
pull
Entries 86
Mean 77.02
Std Dev 48.35
pull1D
Entries 86
Mean −0.08454
Std Dev 1.148

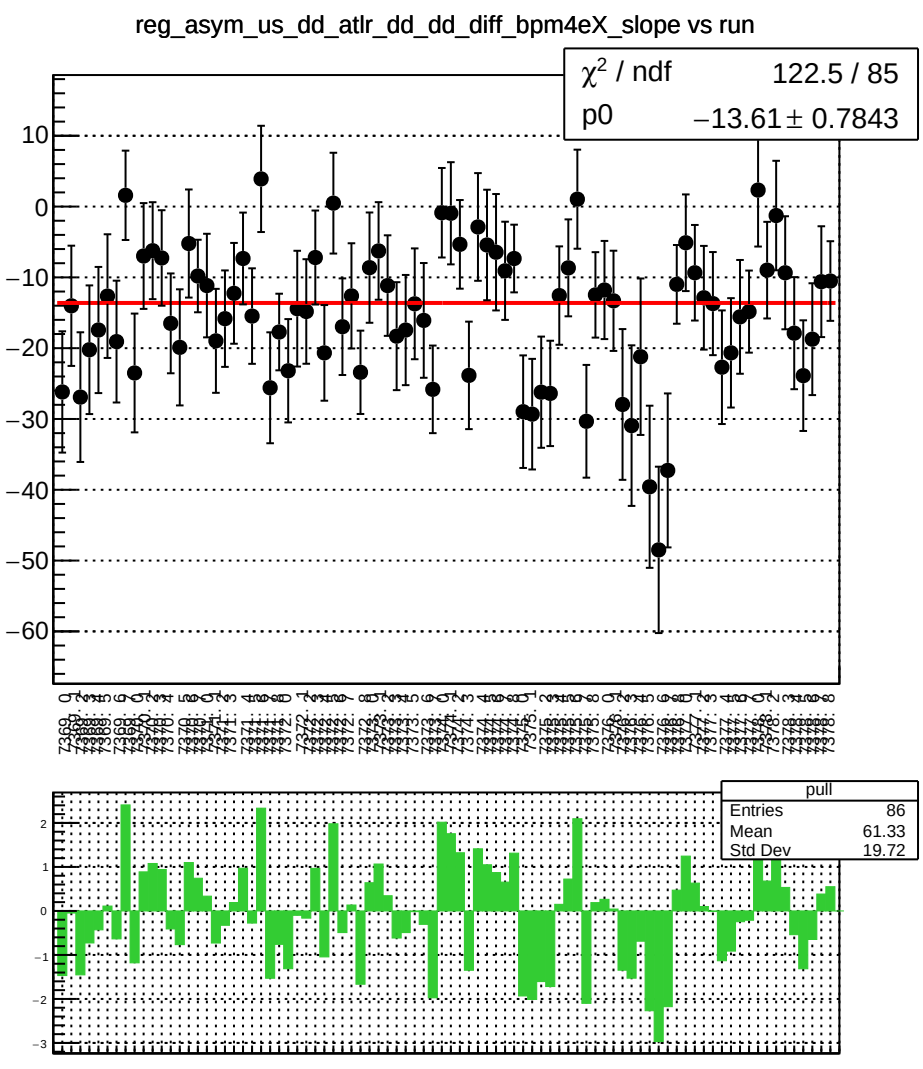

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 127.3 / 85
p0 −22.15 ± 1.44
pull
Entries 86
Mean 126.2
Std Dev 0

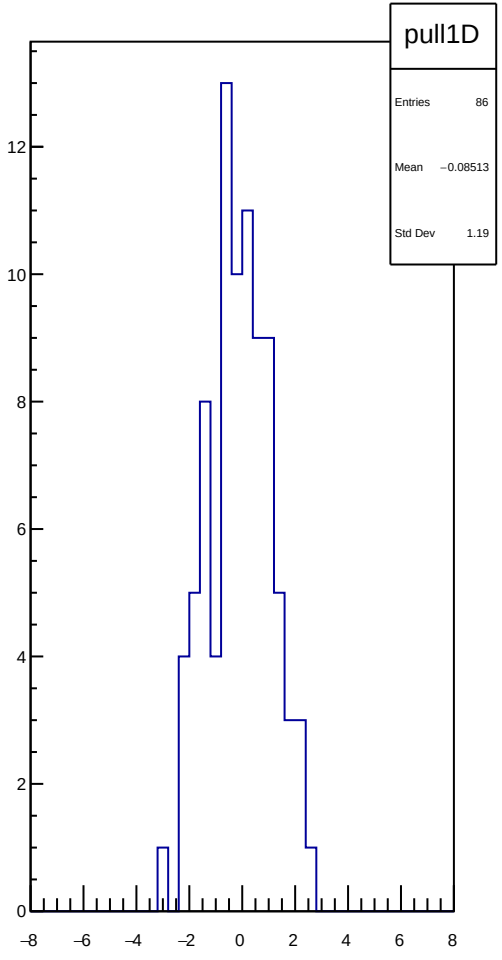

pull1D
Entries 86
Mean 0.0395
Std Dev 1.216

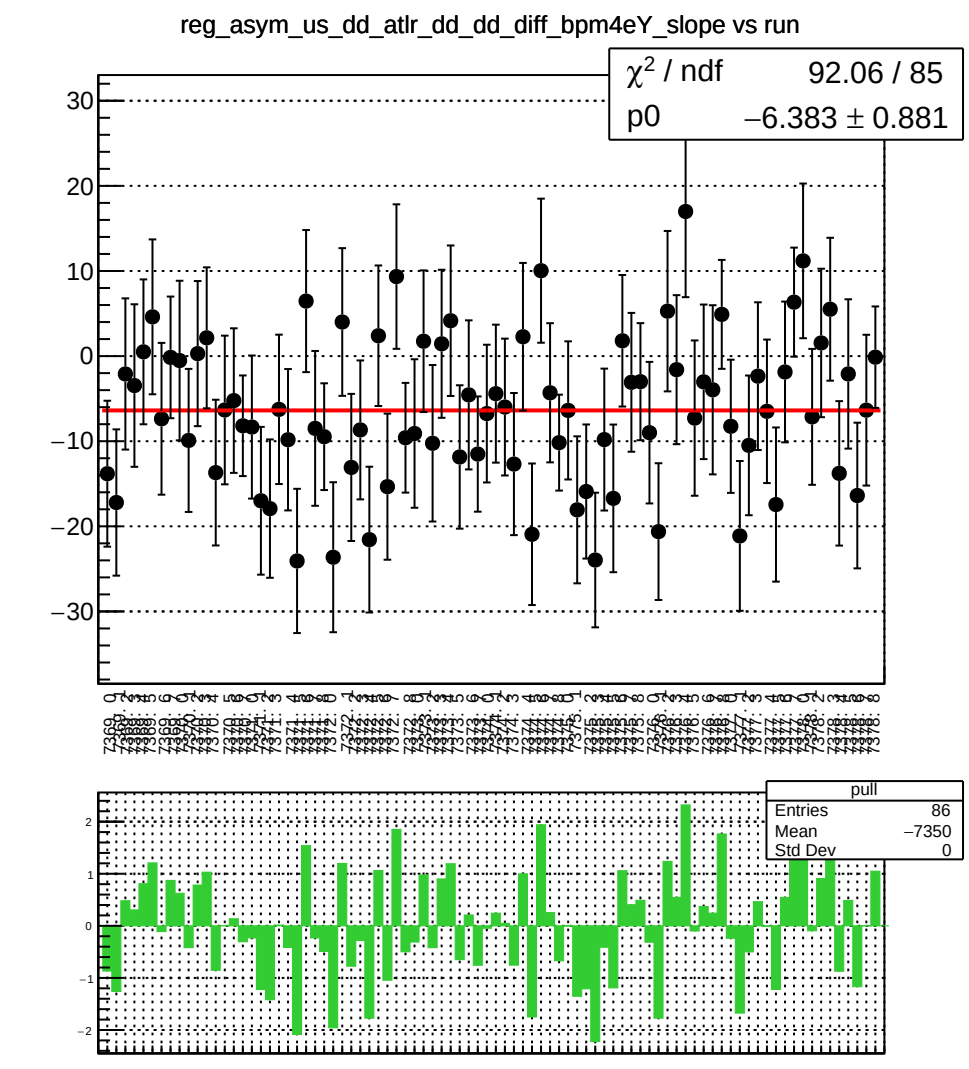

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 150 / 85
p0 3.098 ± 0.06461
pull
Entries 86
Mean −2013
Std Dev 0
pull1D
Entries 86
Mean −0.008471
Std Dev 1.321

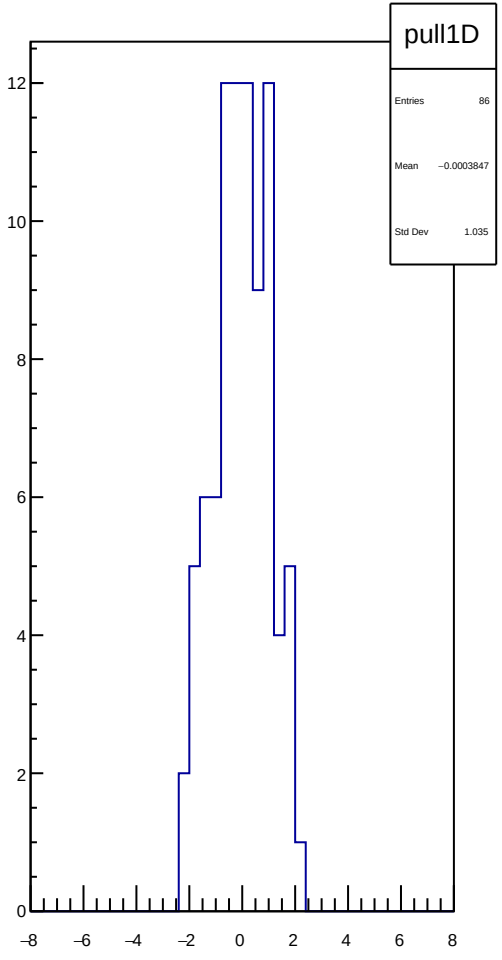

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 121.4 / 85
p0 −29.49 ± 0.7557
pull
Entries 86
Mean 58.77
Std Dev 19.95
pull1D
Entries 86
Mean 0.08073
Std Dev 1.185

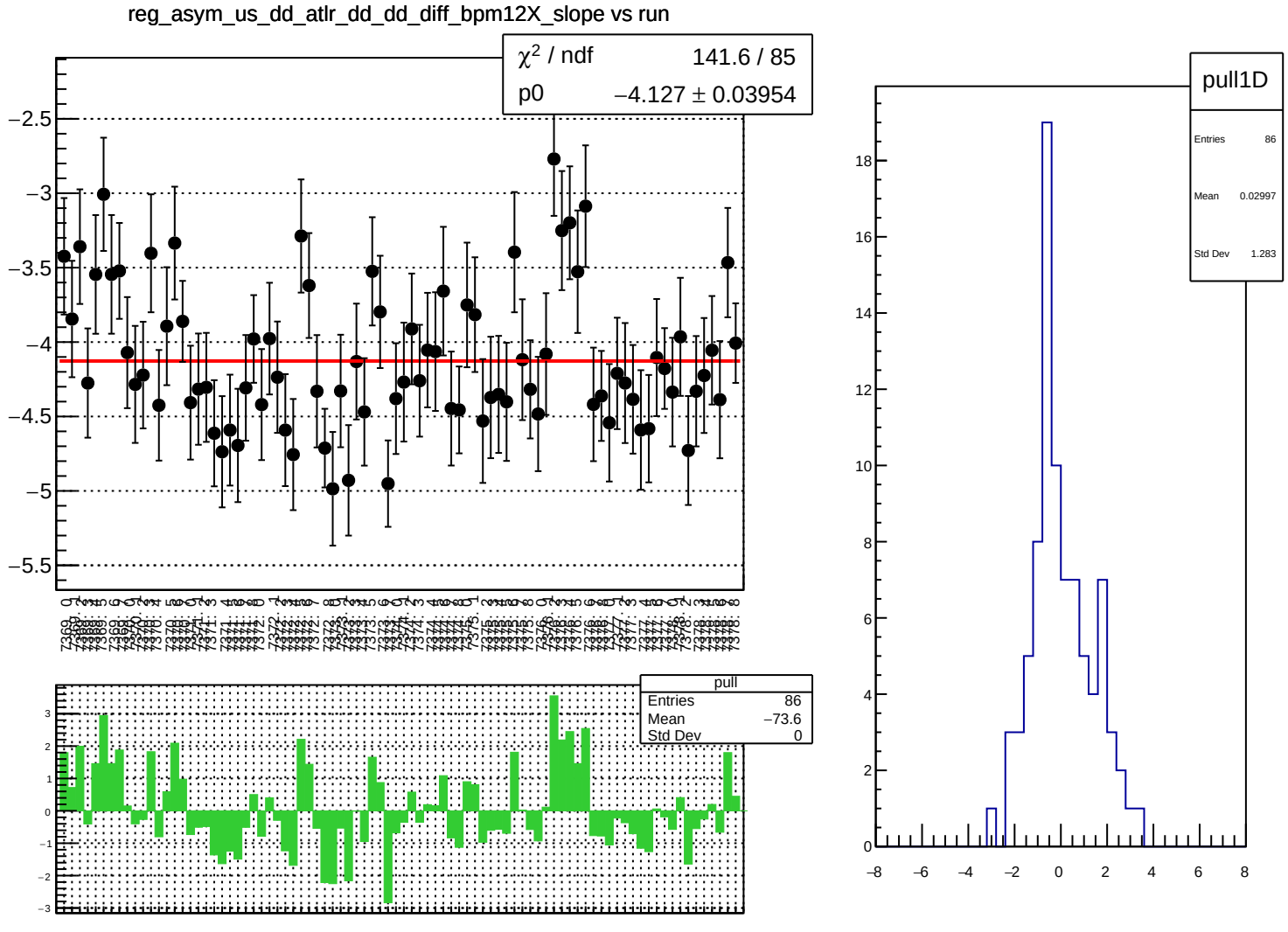

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 92.19 / 85
p0 9.237 ± 0.8299
pull
Entries 86
Mean −1863
Std Dev 0
pull1D
Entries 86
Mean 0.00174
Std Dev 1.035

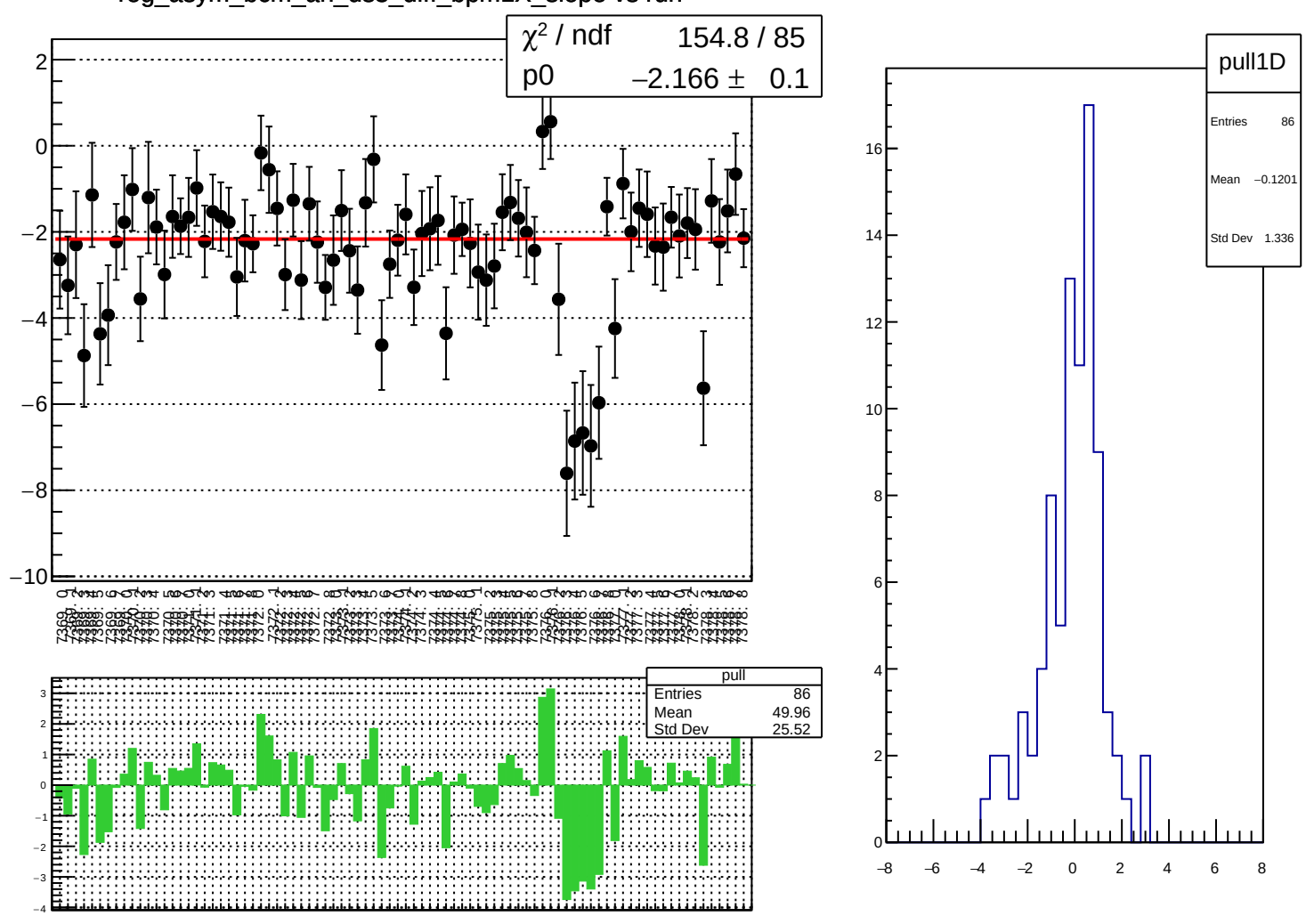

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 122.5 / 85
p0 −13.61 ± 0.7843
pull
Entries 86
Mean 61.33
Std Dev 19.72

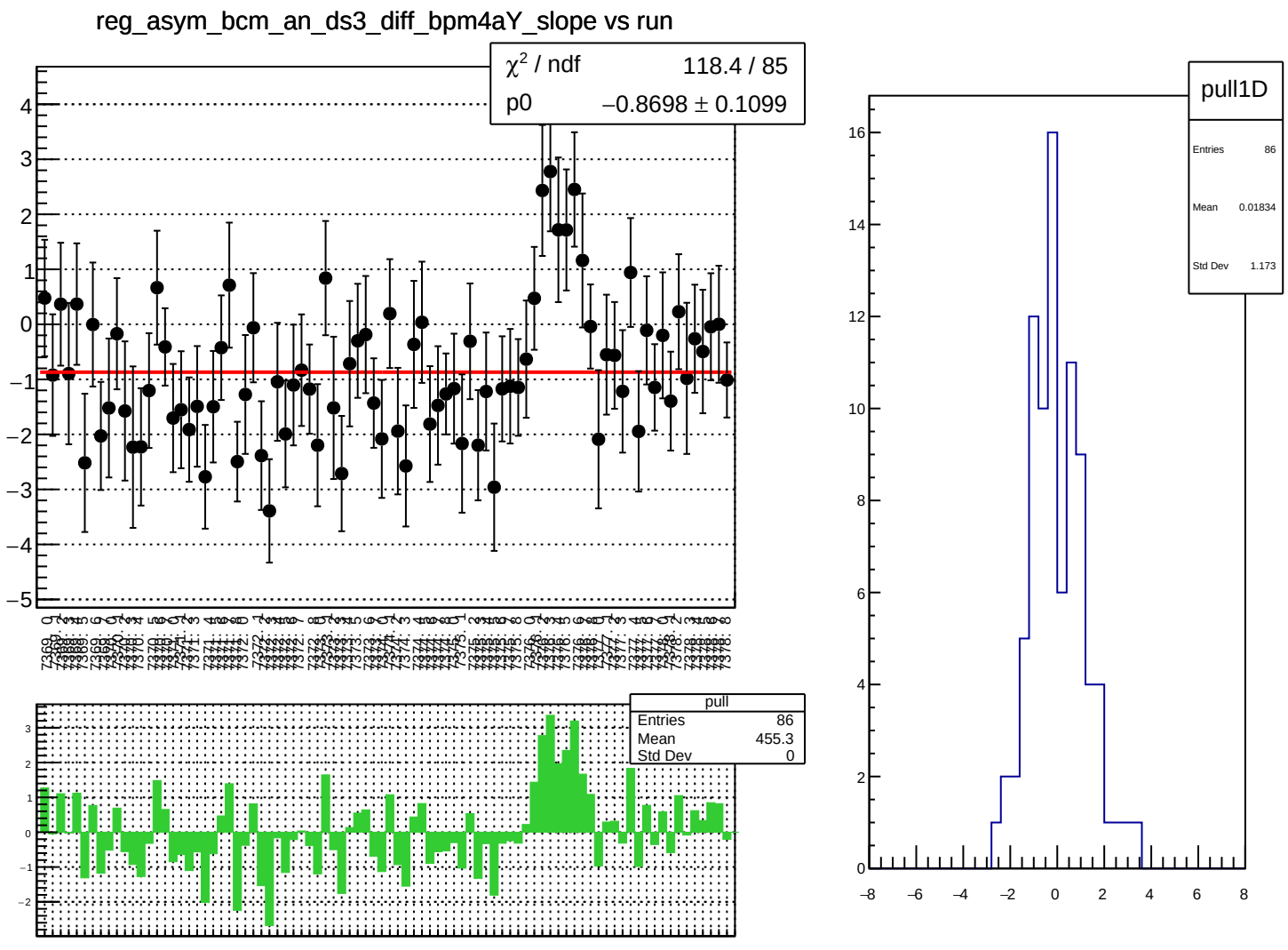

pull1D
Entries 86
Mean −0.08513
Std Dev 1.19

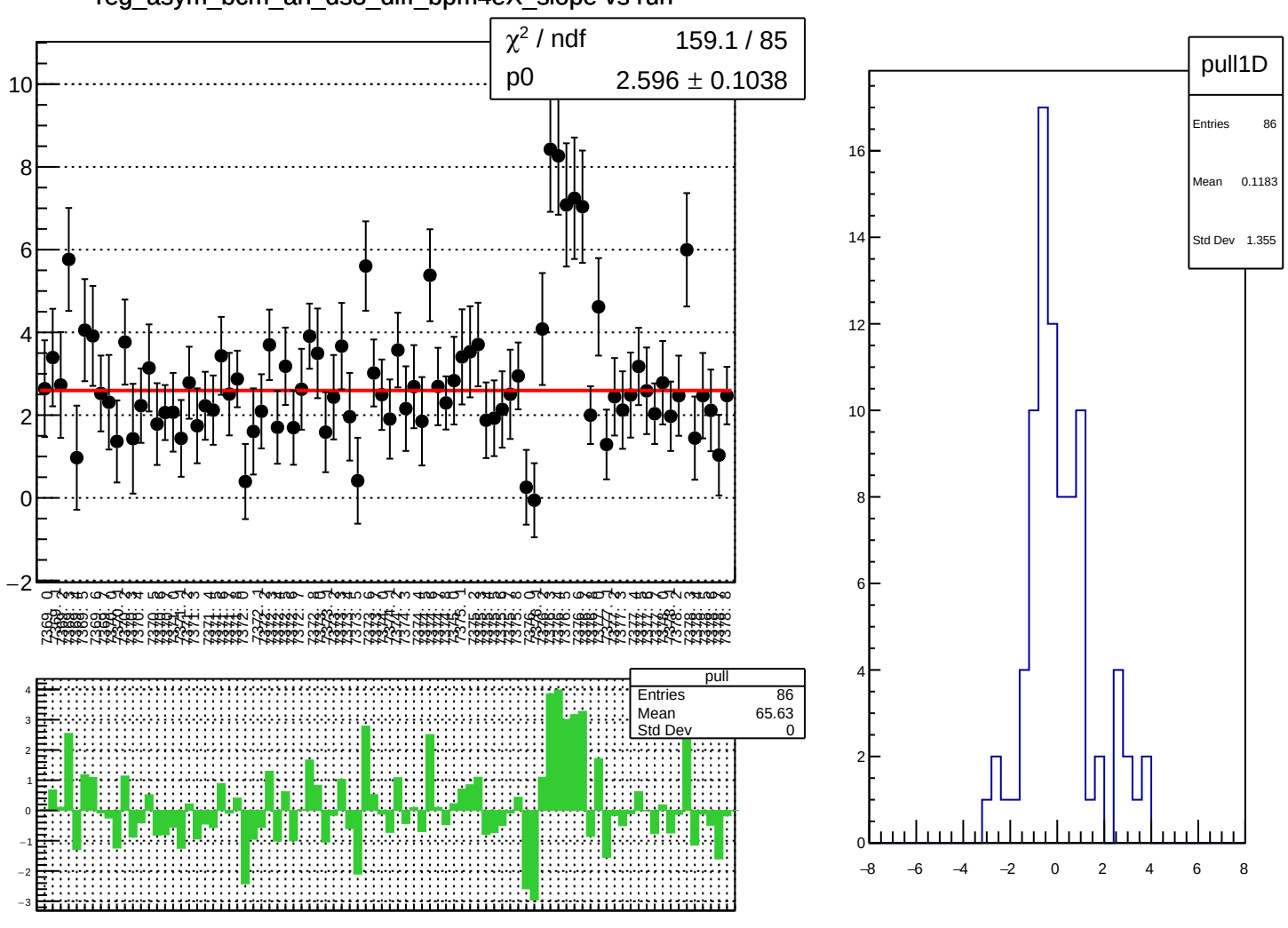

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.06 / 85
p0 −6.383 ± 0.881
pull
Entries 86
Mean −7350
Std Dev 0

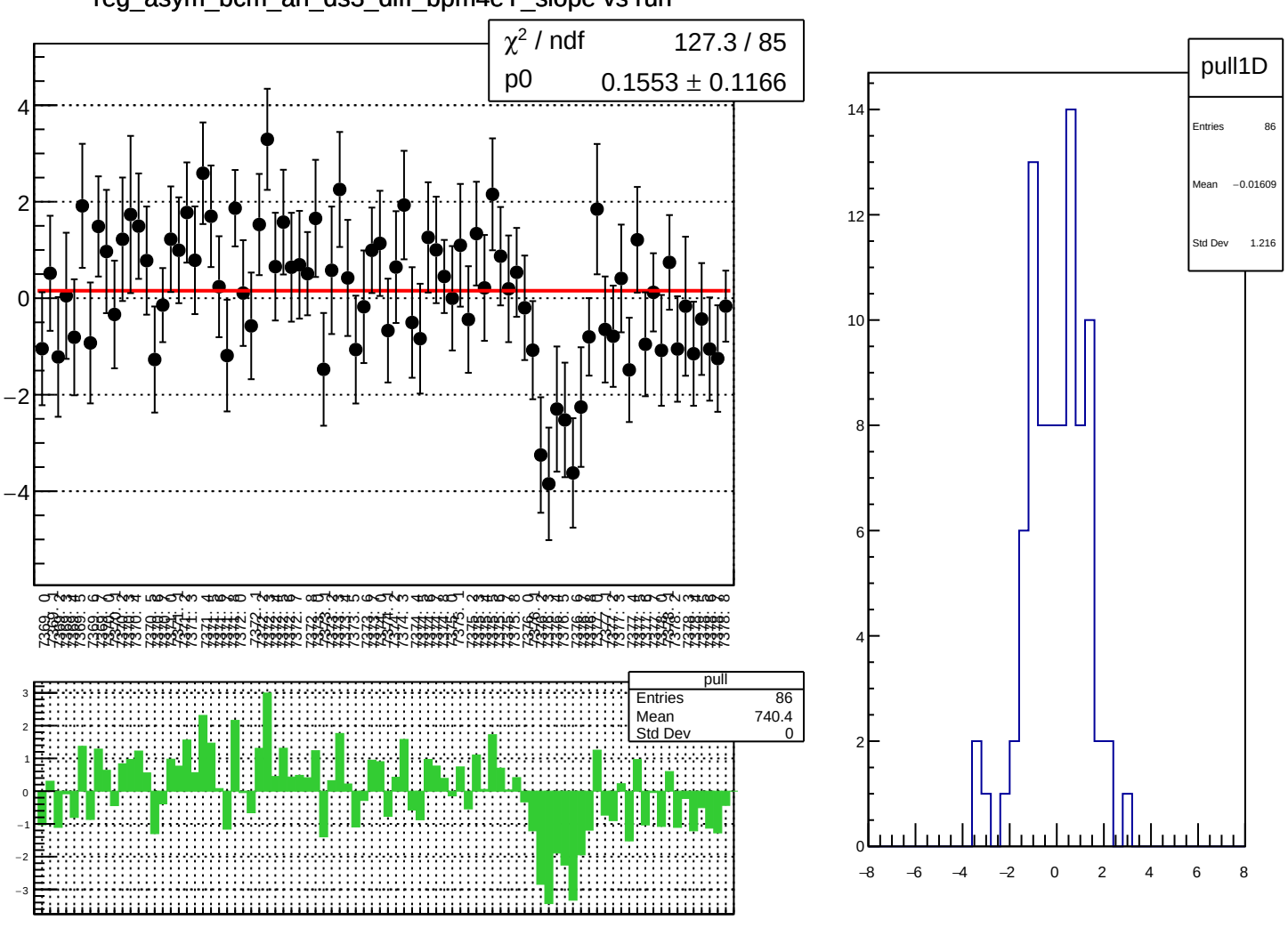

pull1D
Entries 86
Mean −0.0003847
Std Dev 1.035

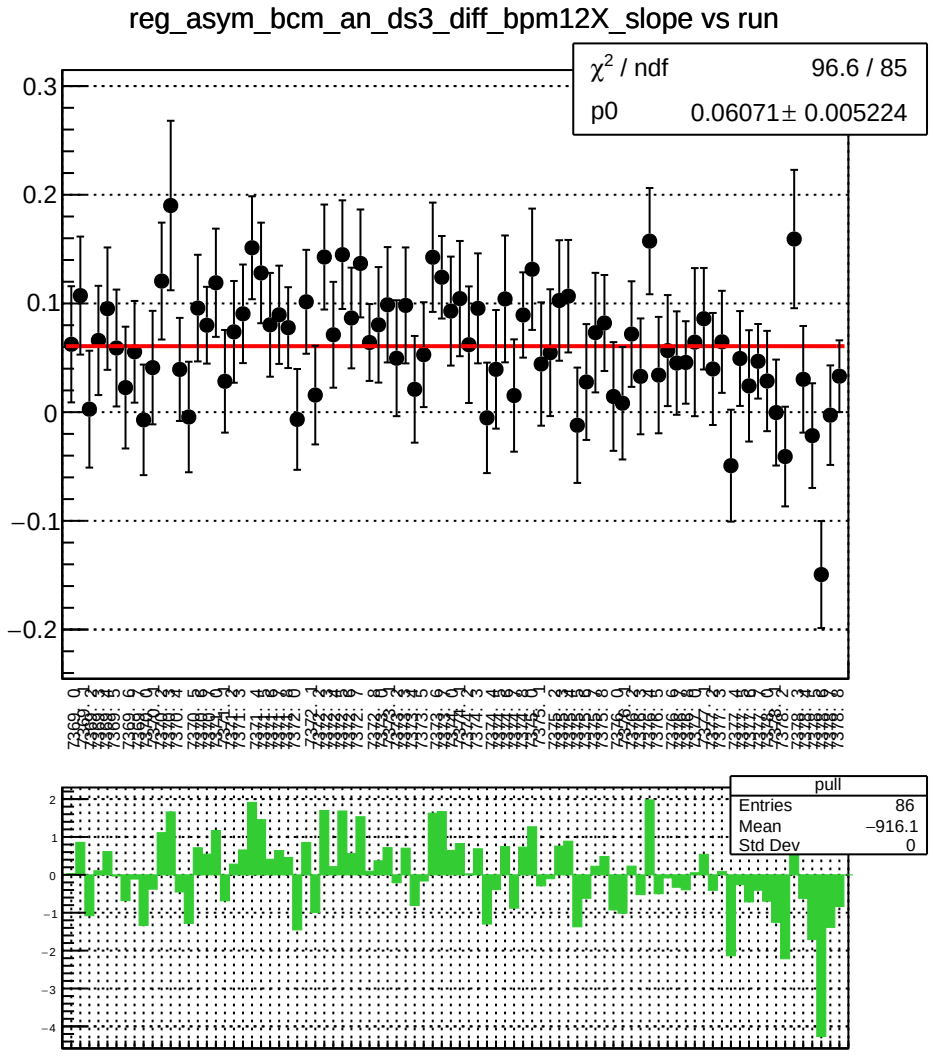

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 141.6 / 85
p0 −4.127 ± 0.03954
pull
Entries 86
Mean −73.6
Std Dev 0
pull1D
Entries 86
Mean 0.02997
Std Dev 1.283

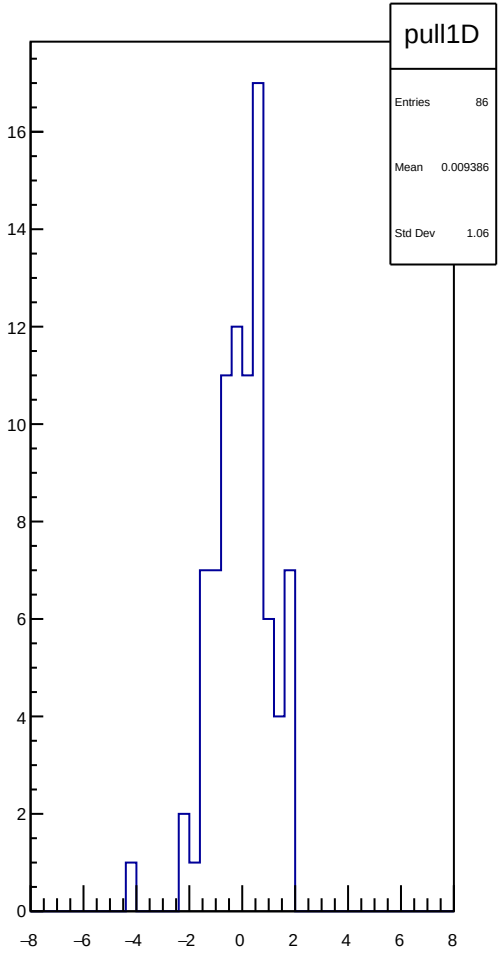

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 154.8 / 85
p0 −2.166 ± 0.1
pull
Entries 86
Mean 49.96
Std Dev 25.52
pull1D
Entries 86
Mean −0.1201
Std Dev 1.336

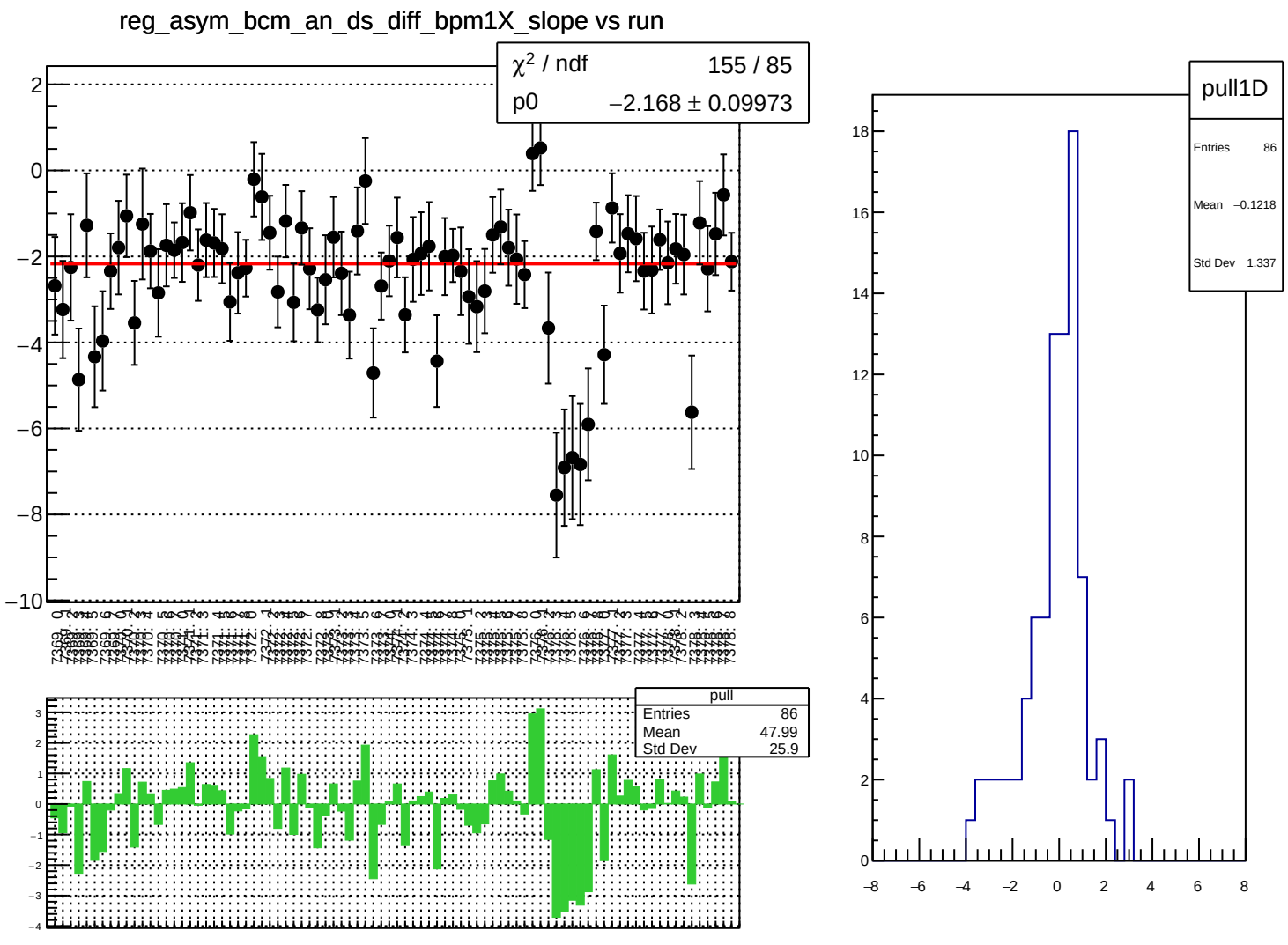

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 118.4 / 85
p0 −0.8698 ± 0.1099
pull
Entries 86
Mean 455.3
Std Dev 0
pull1D
Entries 86
Mean 0.01834
Std Dev 1.173

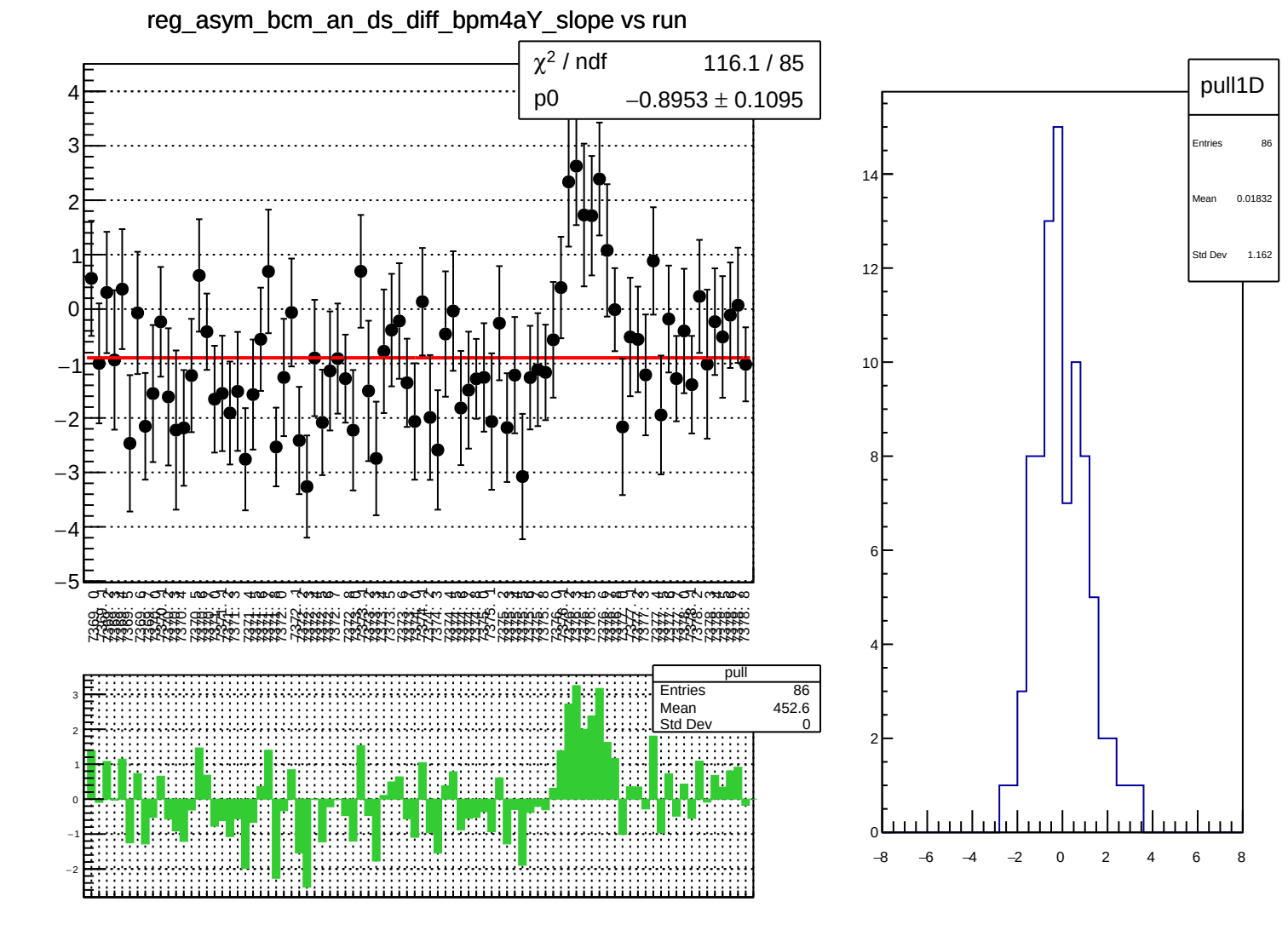

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 159.1 / 85
p0 2.596 ± 0.1038
pull
Entries 86
Mean 65.63
Std Dev 0
pull1D
Entries 86
Mean 0.1183
Std Dev 1.355

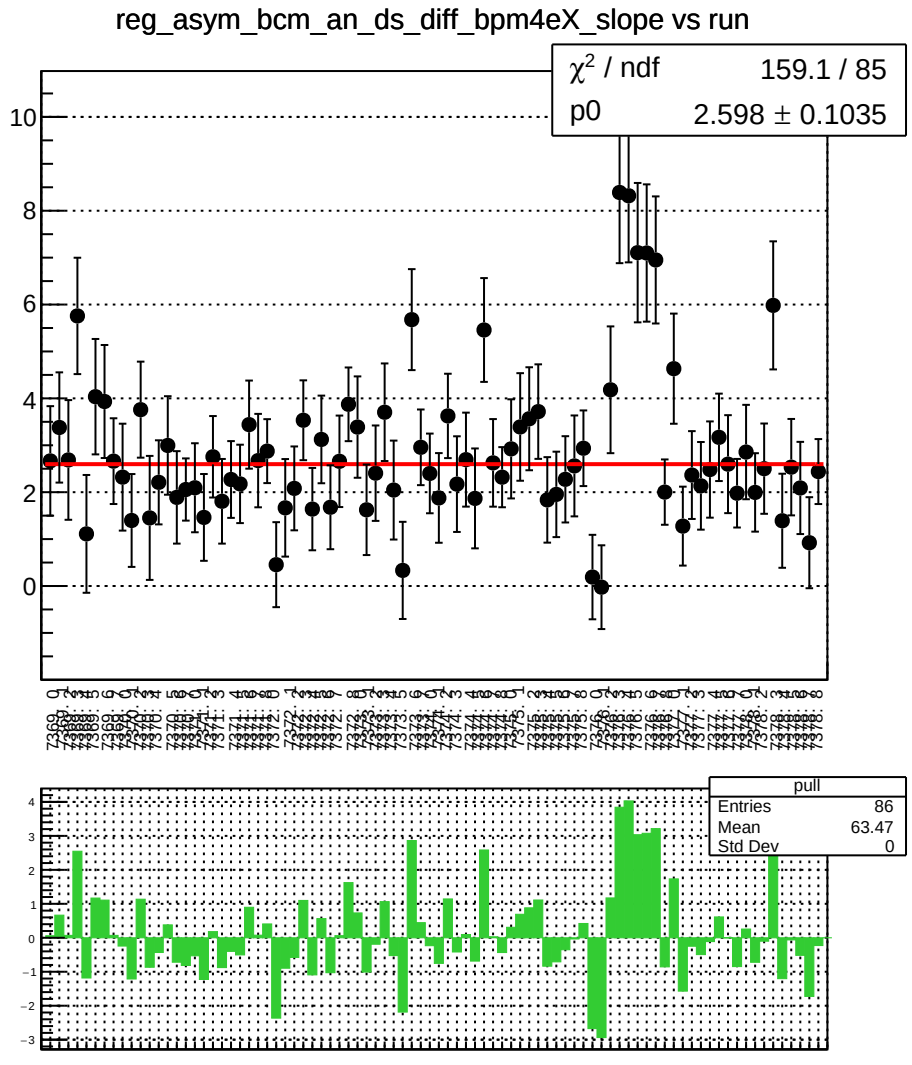

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 127.3 / 85
p0 0.1553 ± 0.1166
pull
Entries 86
Mean 740.4
Std Dev 0
pull1D
Entries 86
Mean −0.01609
Std Dev 1.216

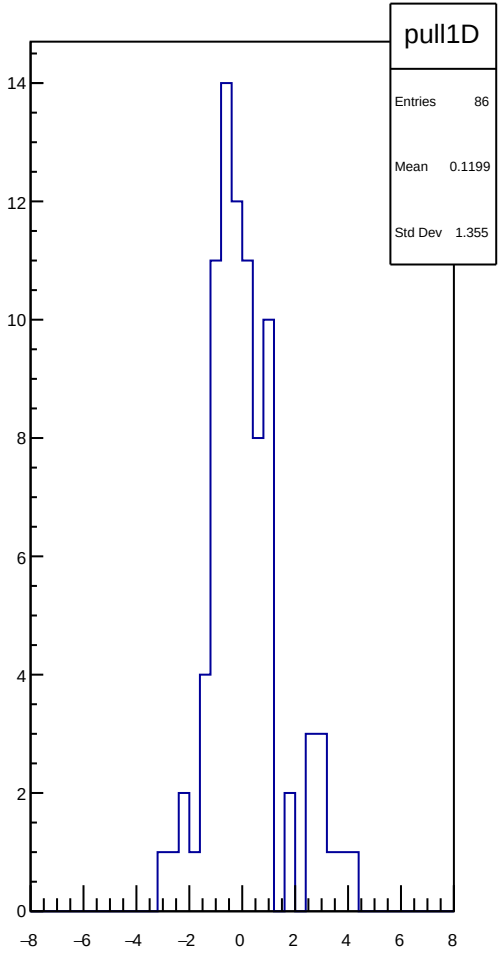

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 96.6 / 85
p0 0.06071± 0.005224
pull
Entries 86
Mean −916.1
Std Dev 0

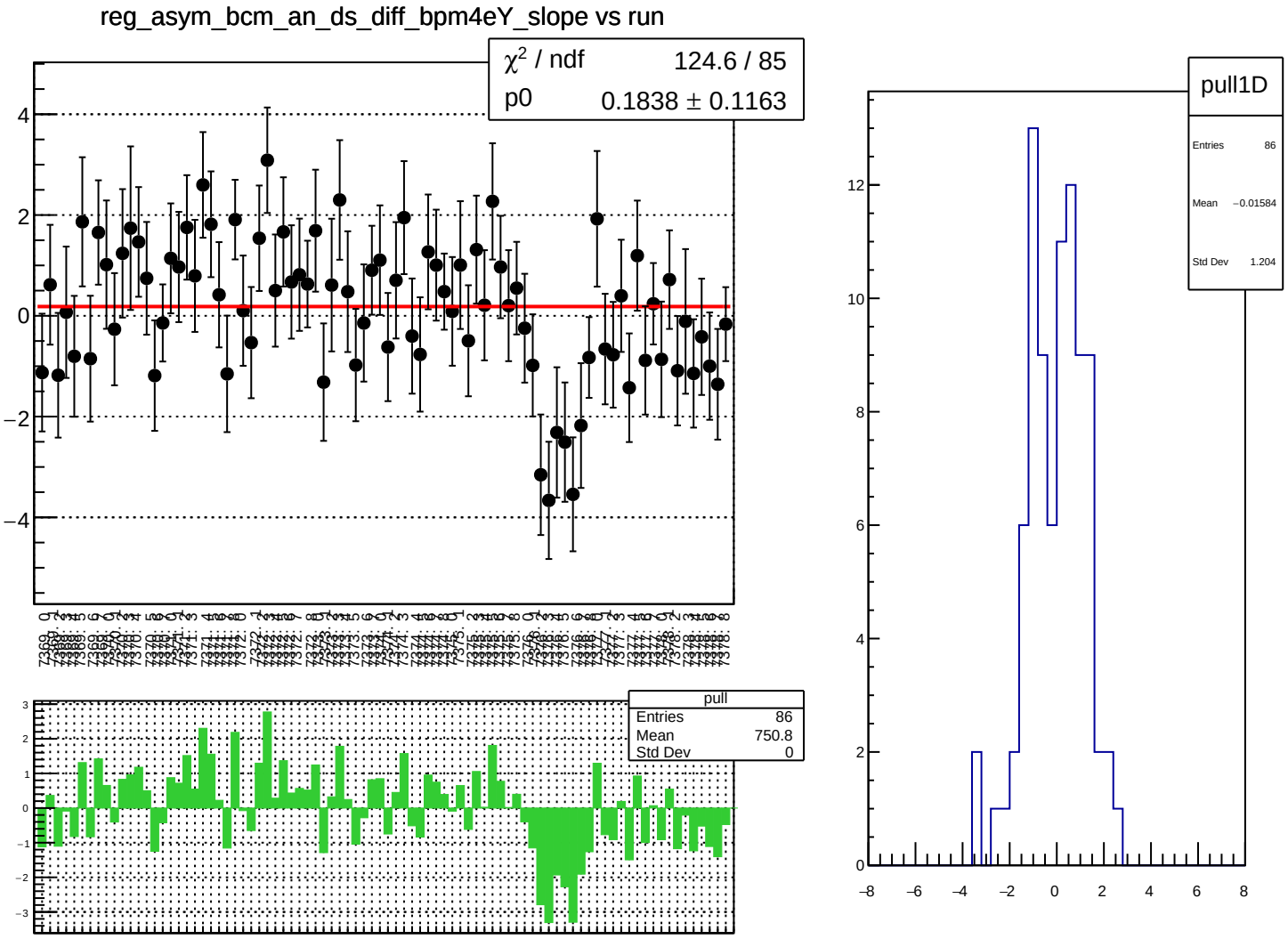

pull1D
Entries 86
Mean 0.009386
Std Dev 1.06

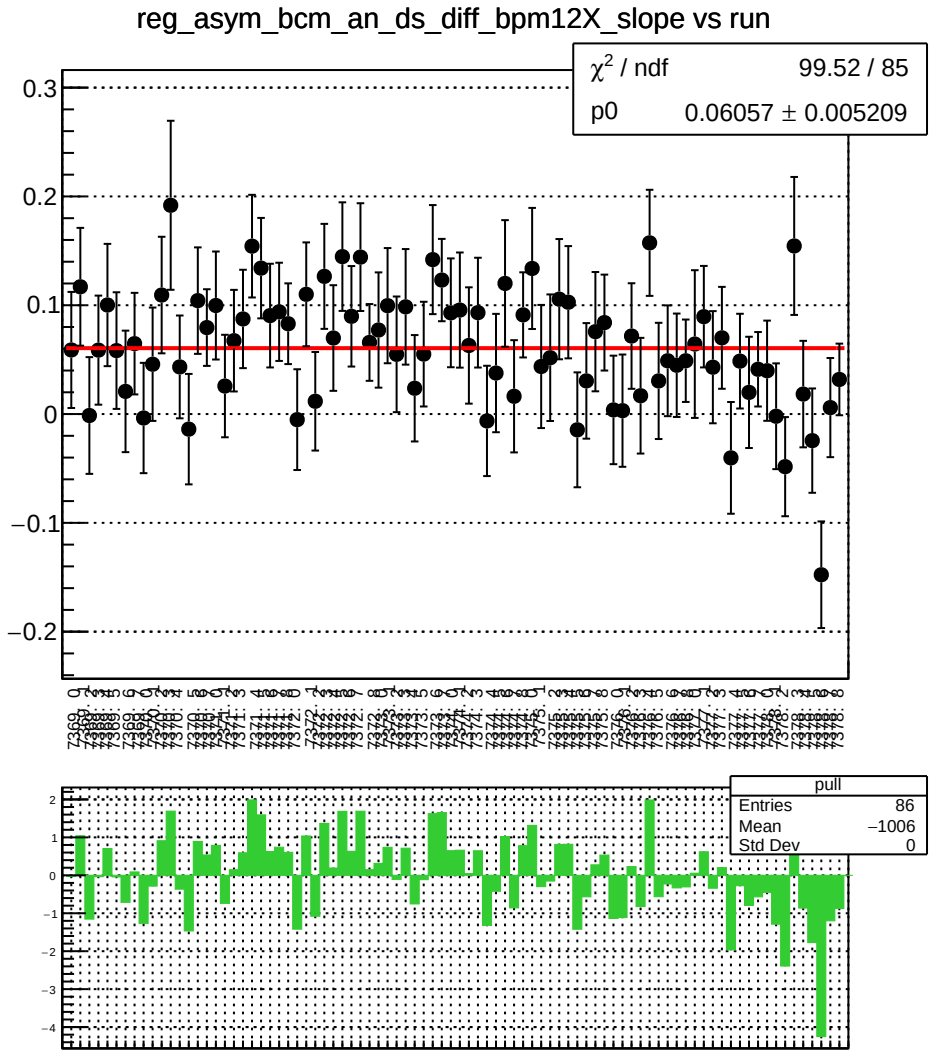

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 155 / 85
p0 −2.168 ± 0.09973
pull
Entries 86
Mean 47.99
Std Dev 25.9
pull1D
Entries 86
Mean −0.1218
Std Dev 1.337

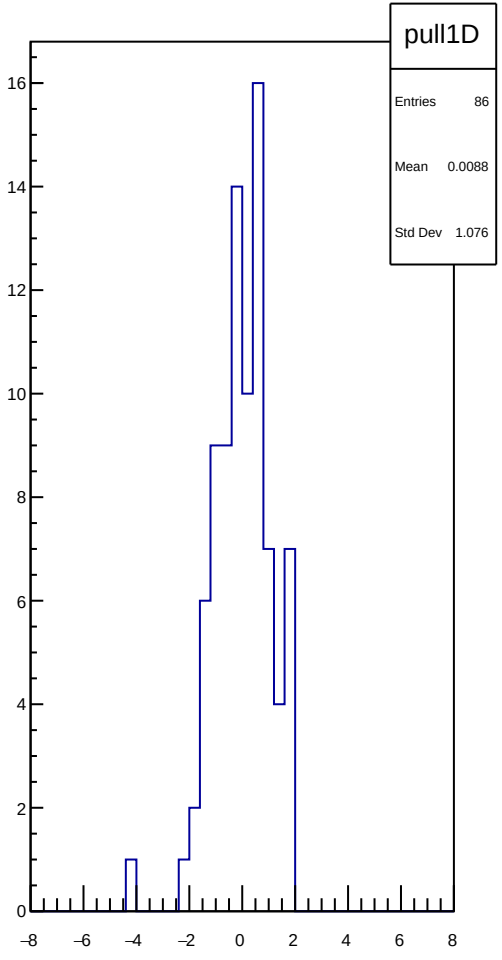

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 116.1 / 85
p0 −0.8953 ± 0.1095
pull
Entries 86
Mean 452.6
Std Dev 0
pull1D
Entries 86
Mean 0.01832
Std Dev 1.162

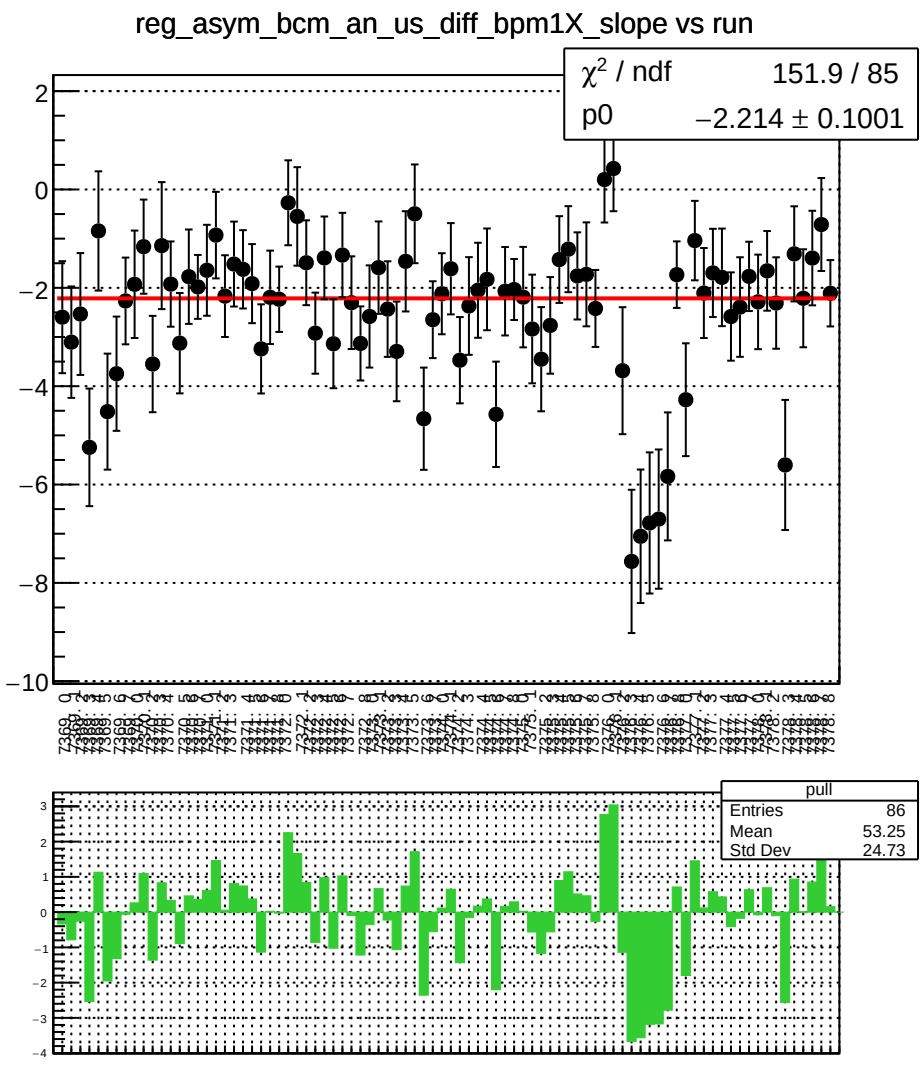

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 159.1 / 85
p0 2.598 ± 0.1035
pull
Entries 86
Mean 63.47
Std Dev 0

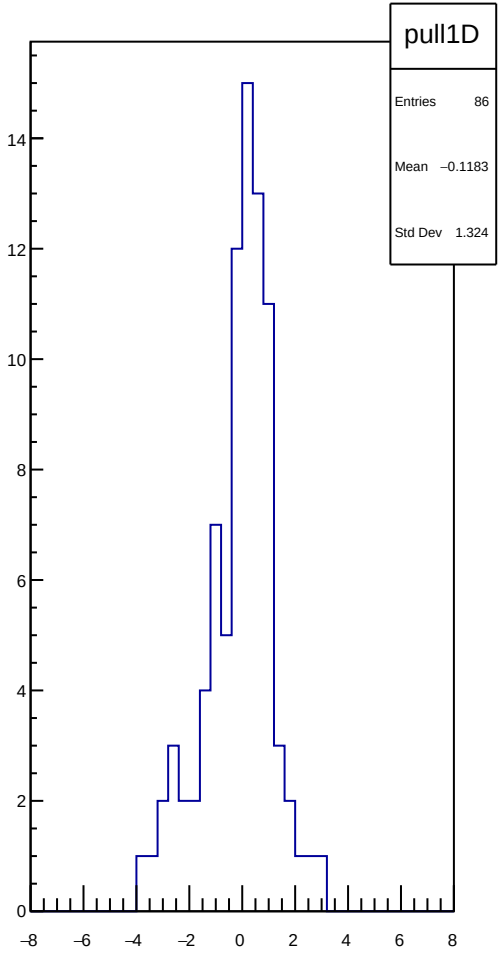

pull1D
Entries 86
Mean 0.1199
Std Dev 1.355

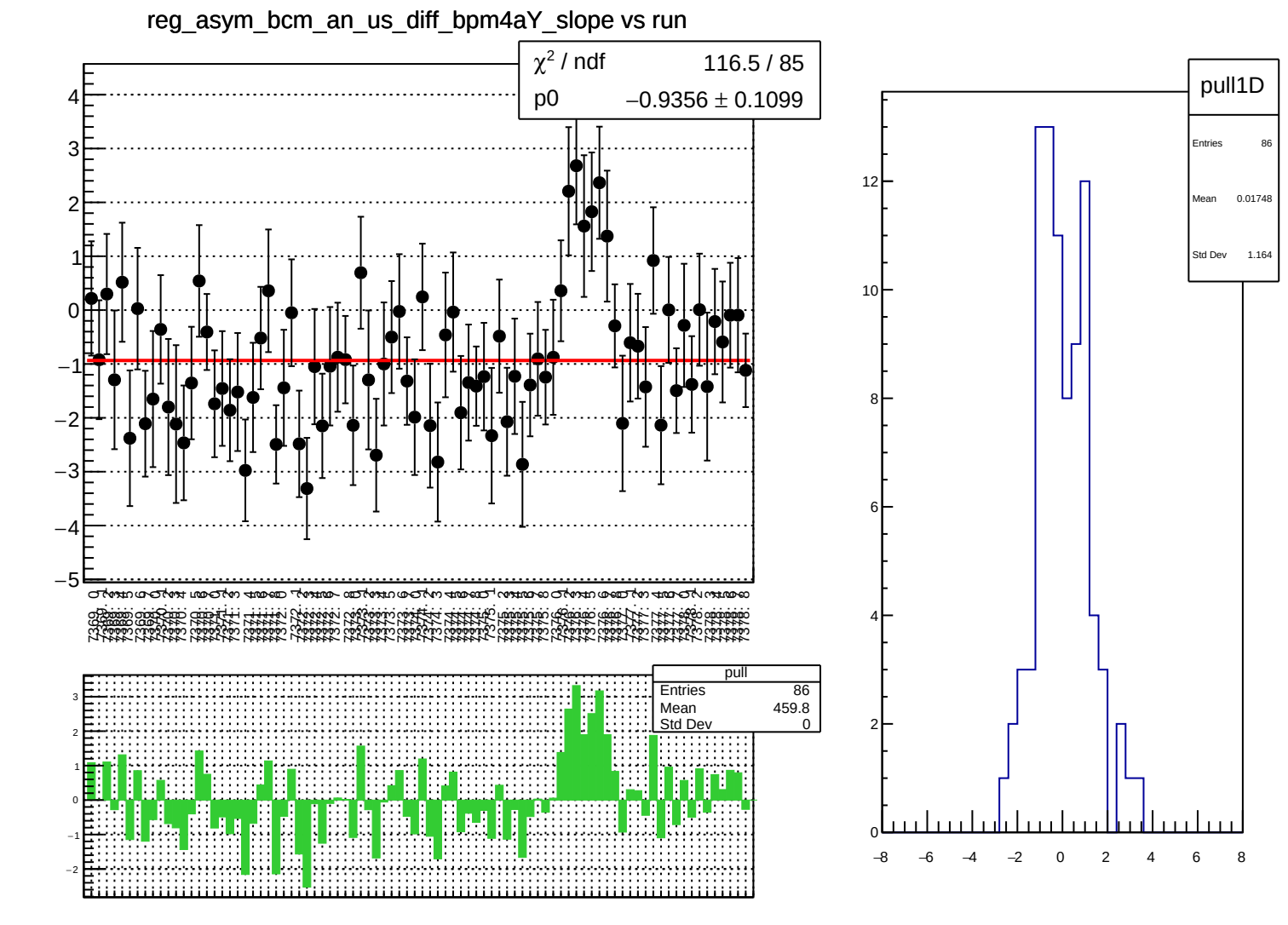

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 124.6 / 85
p0 0.1838 ± 0.1163
pull
Entries 86
Mean 750.8
Std Dev 0
pull1D
Entries 86
Mean −0.01584
Std Dev 1.204

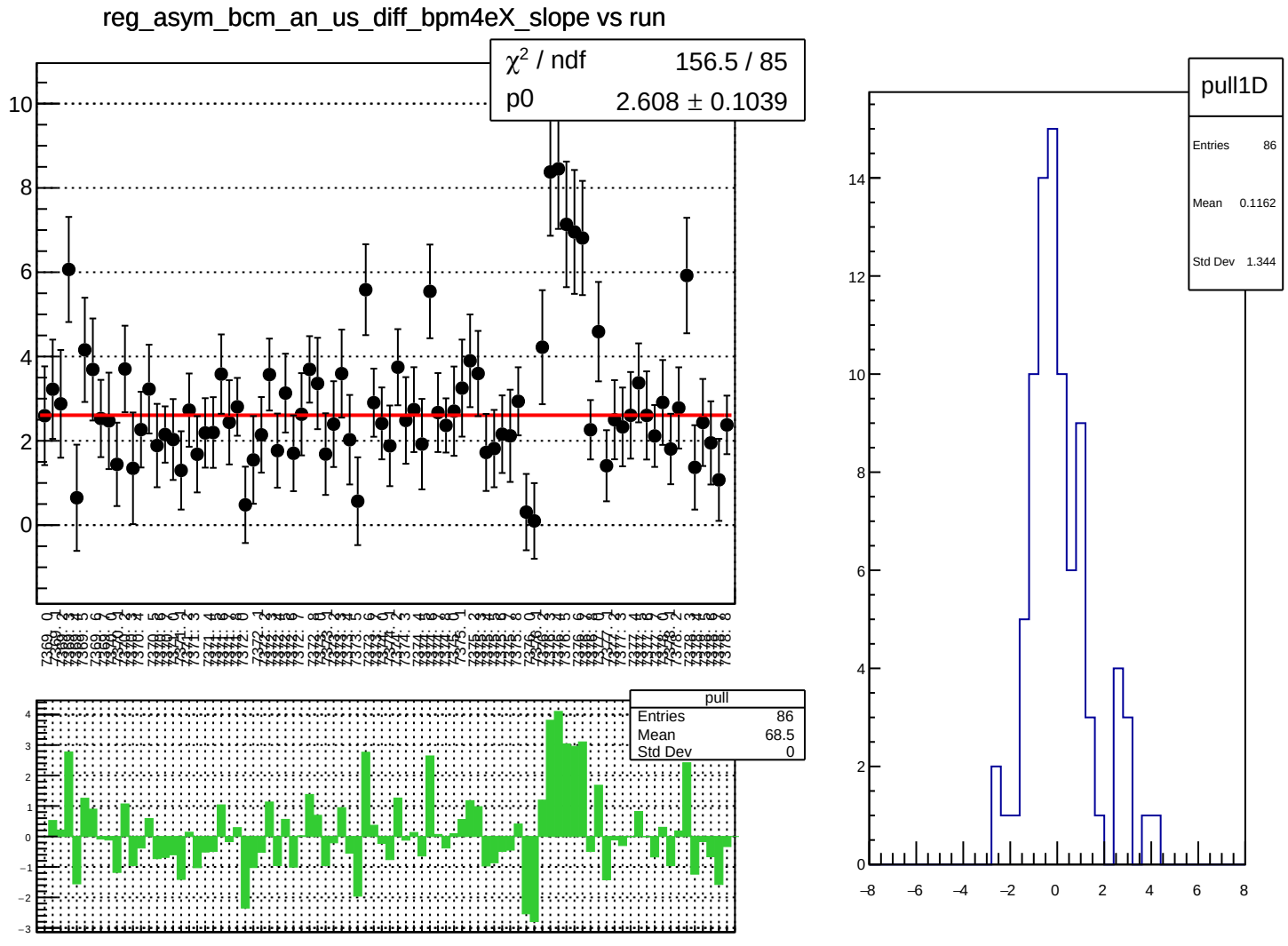

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 99.52 / 85
p0 0.06057 ± 0.005209
pull
Entries 86
Mean −1006
Std Dev 0

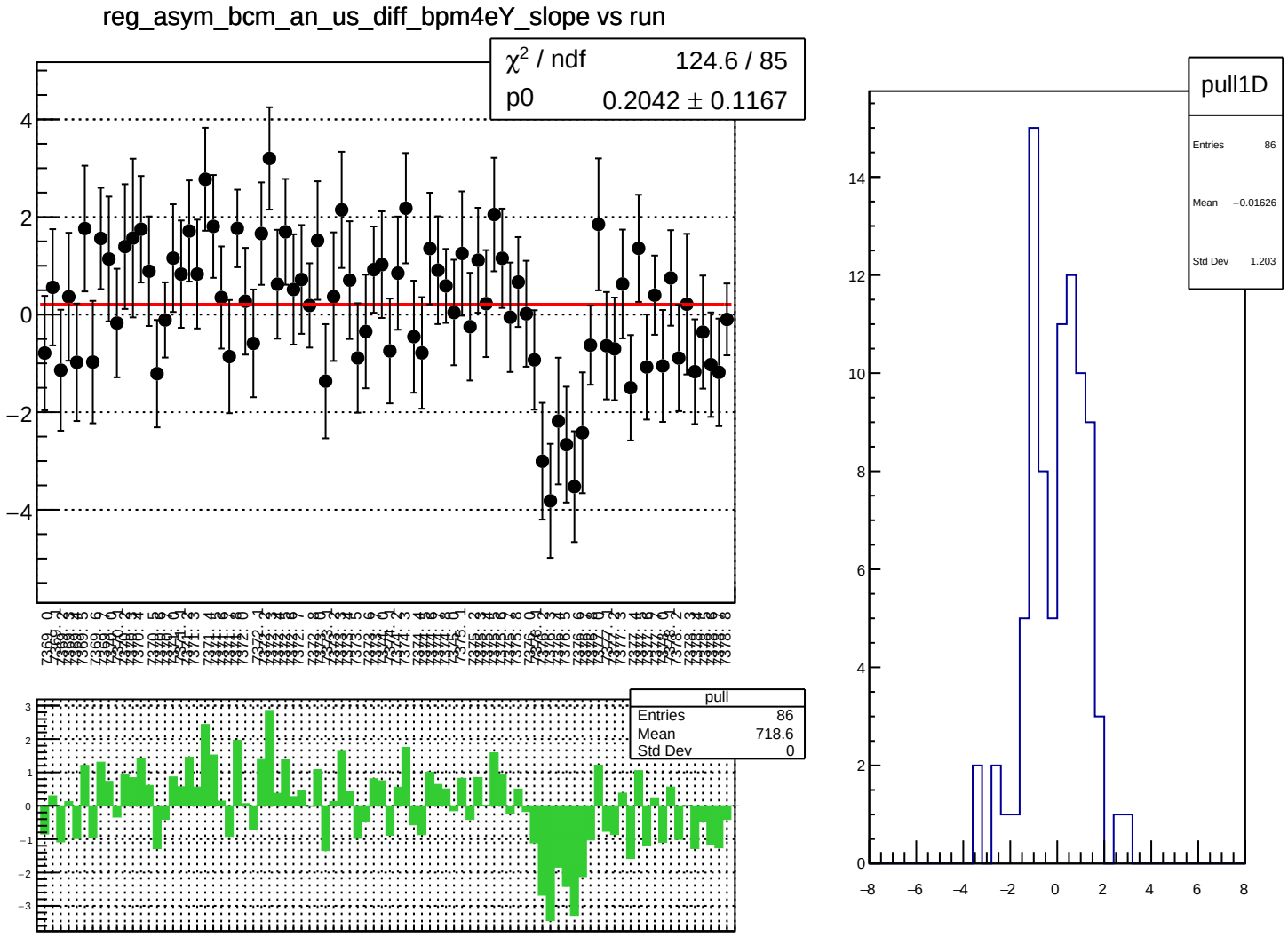

pull1D
Entries 86
Mean 0.0088
Std Dev 1.076

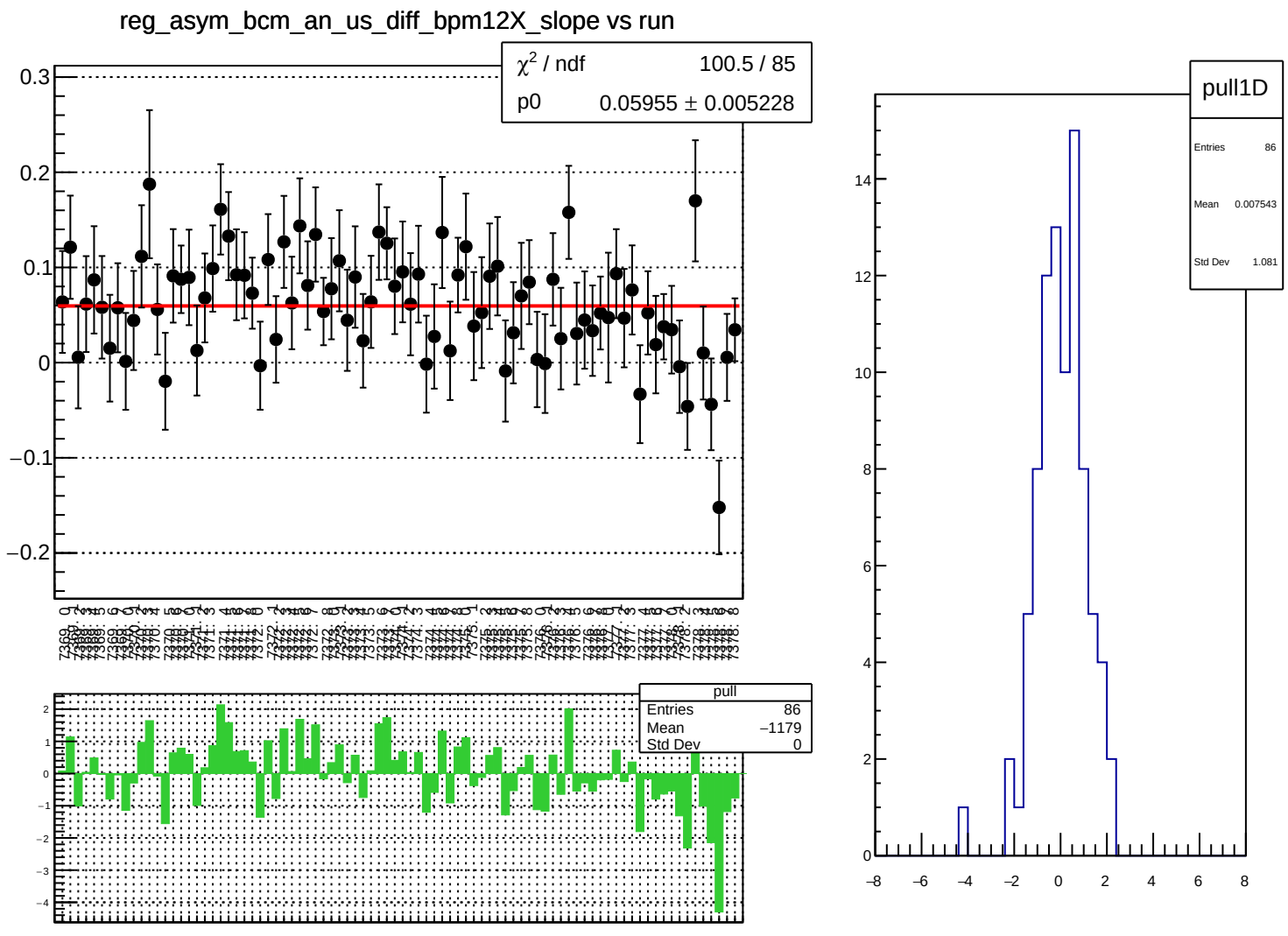

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 151.9 / 85
p0 −2.214 ± 0.1001
pull
Entries 86
Mean 53.25
Std Dev 24.73

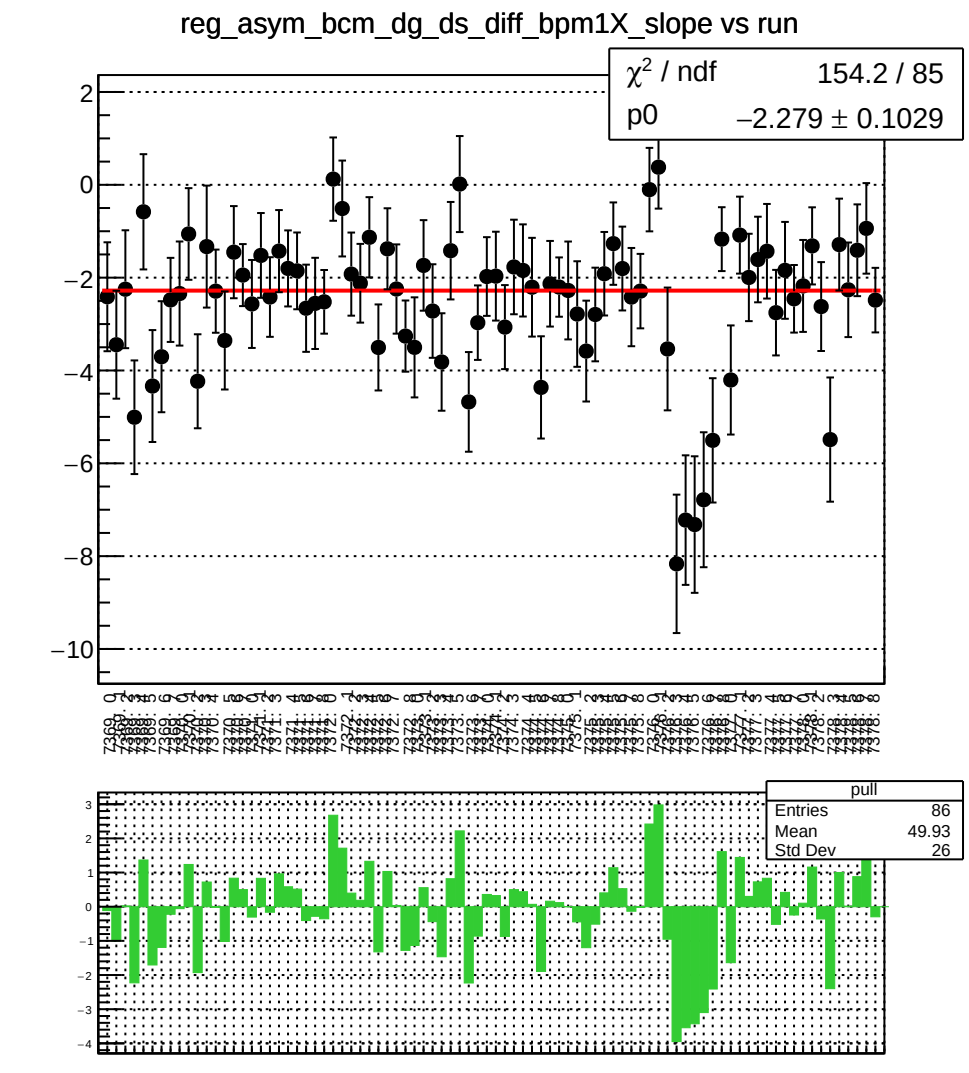

pull1D
Entries 86
Mean −0.1183
Std Dev 1.324

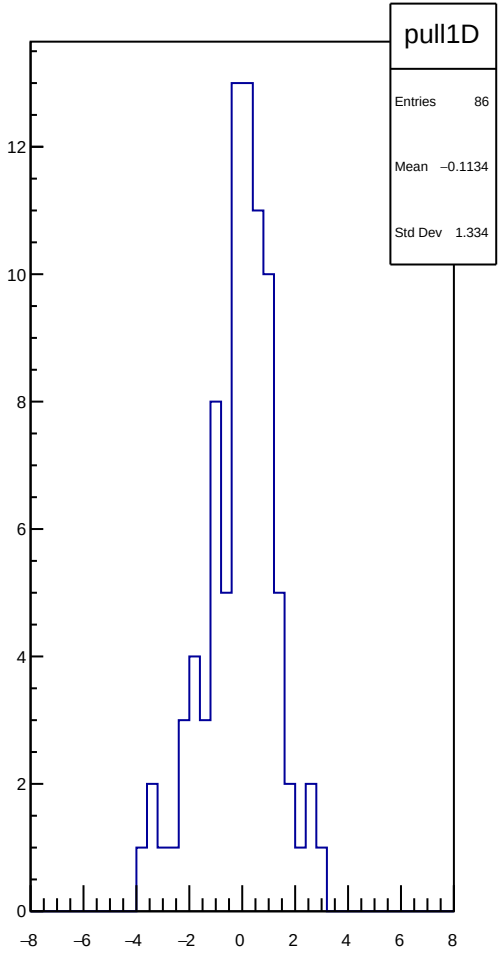

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 116.5 / 85
p0 −0.9356 ± 0.1099
pull
Entries 86
Mean 459.8
Std Dev 0
pull1D
Entries 86
Mean 0.01748
Std Dev 1.164

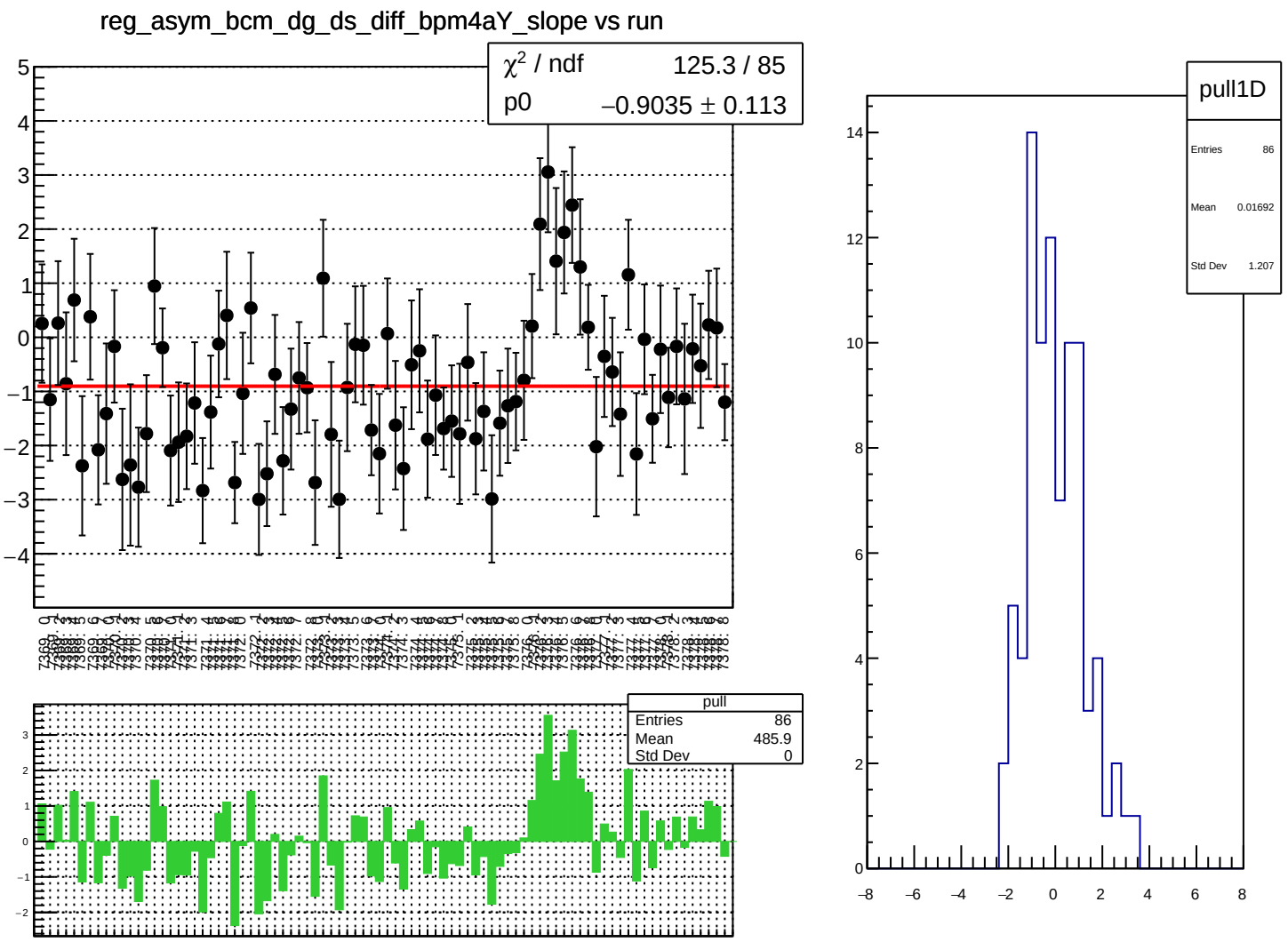

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 156.5 / 85
p0 2.608 ± 0.1039
pull
Entries 86
Mean 68.5
Std Dev 0
pull1D
Entries 86
Mean 0.1162
Std Dev 1.344

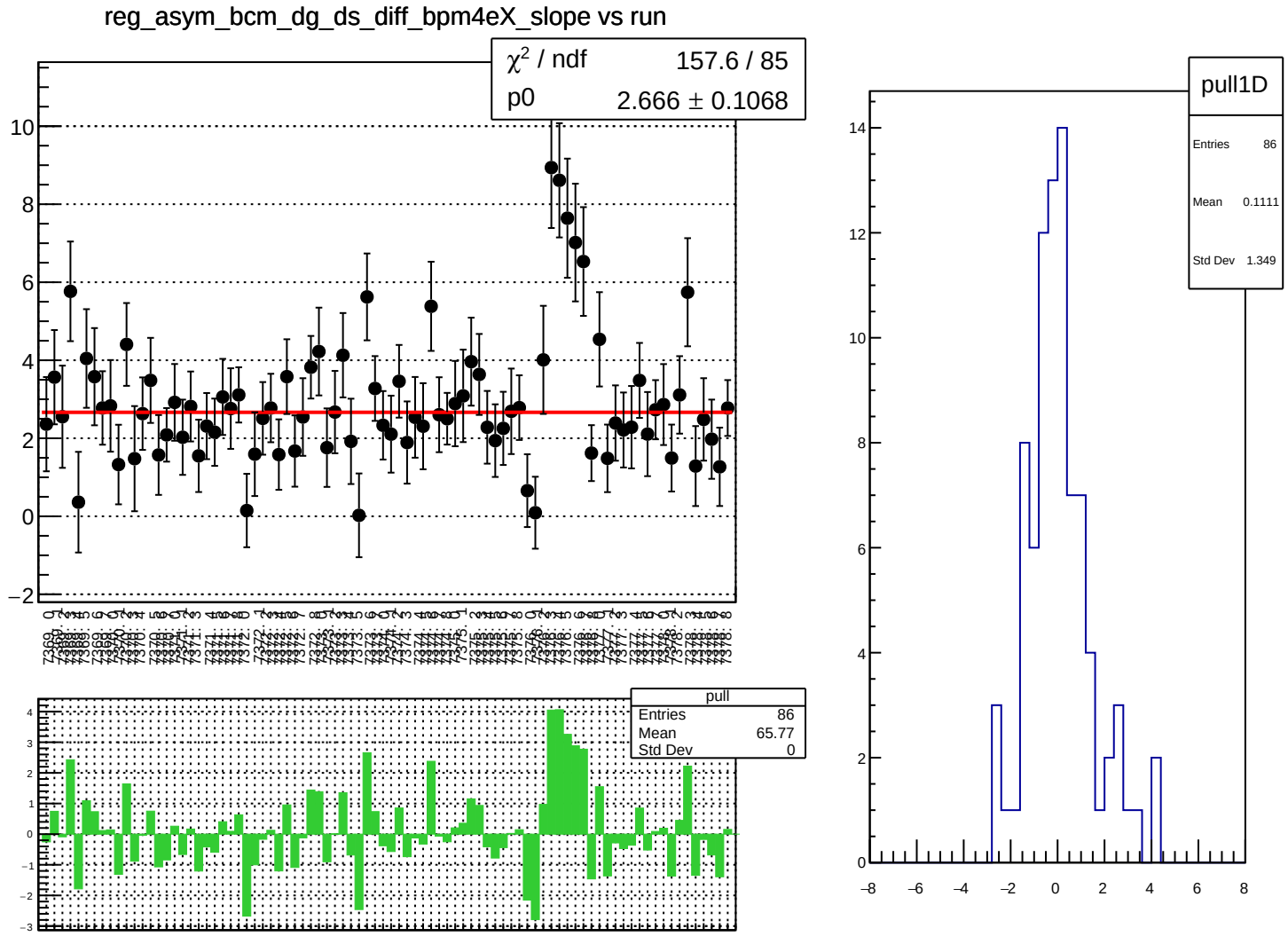

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 124.6 / 85
p0 0.2042 ± 0.1167
pull
Entries 86
Mean 718.6
Std Dev 0
pull1D
Entries 86
Mean −0.01626
Std Dev 1.203

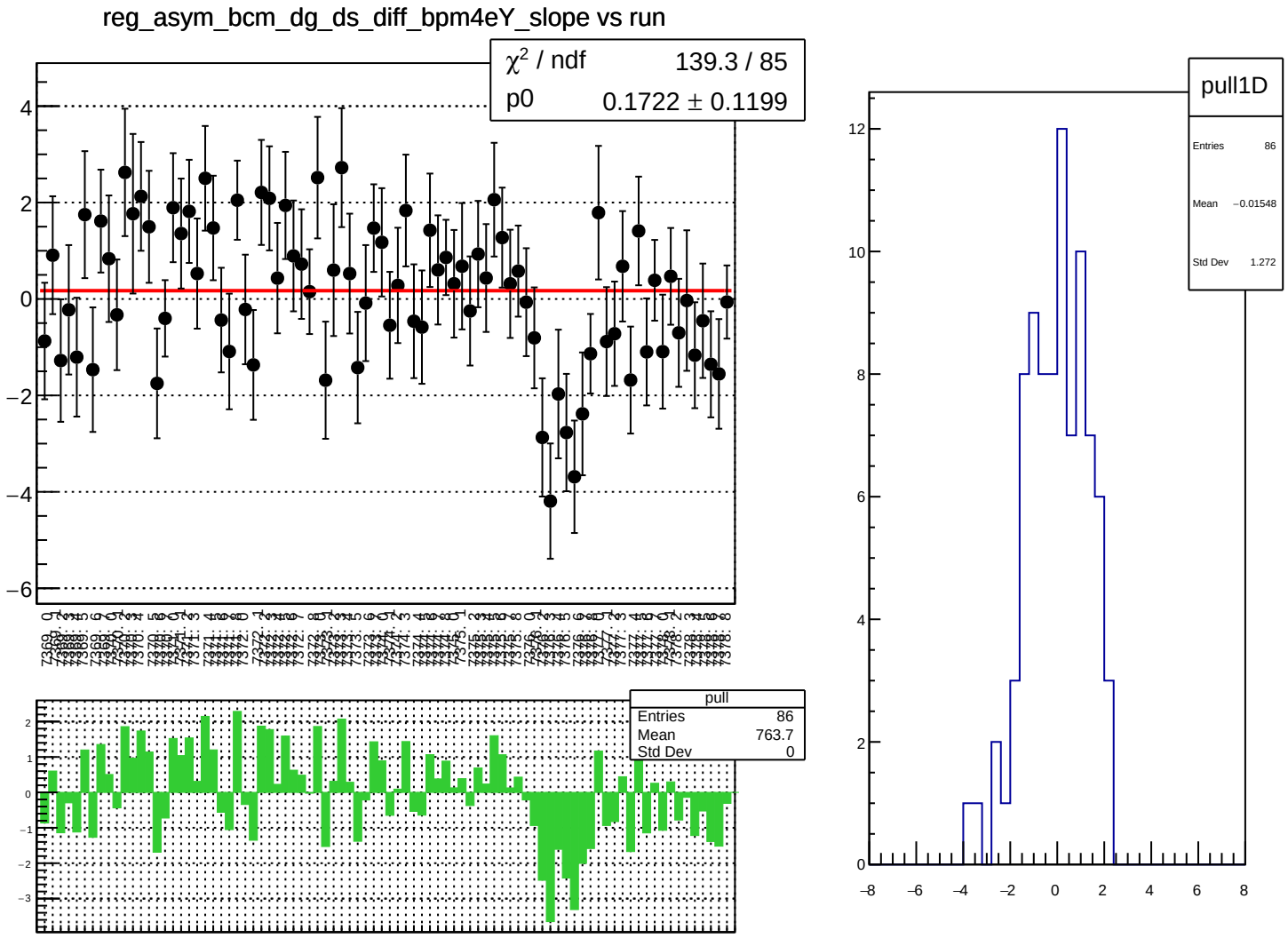

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 100.5 / 85
p0 0.05955 ± 0.005228
pull
Entries 86
Mean −1179
Std Dev 0
pull1D
Entries 86
Mean 0.007543
Std Dev 1.081

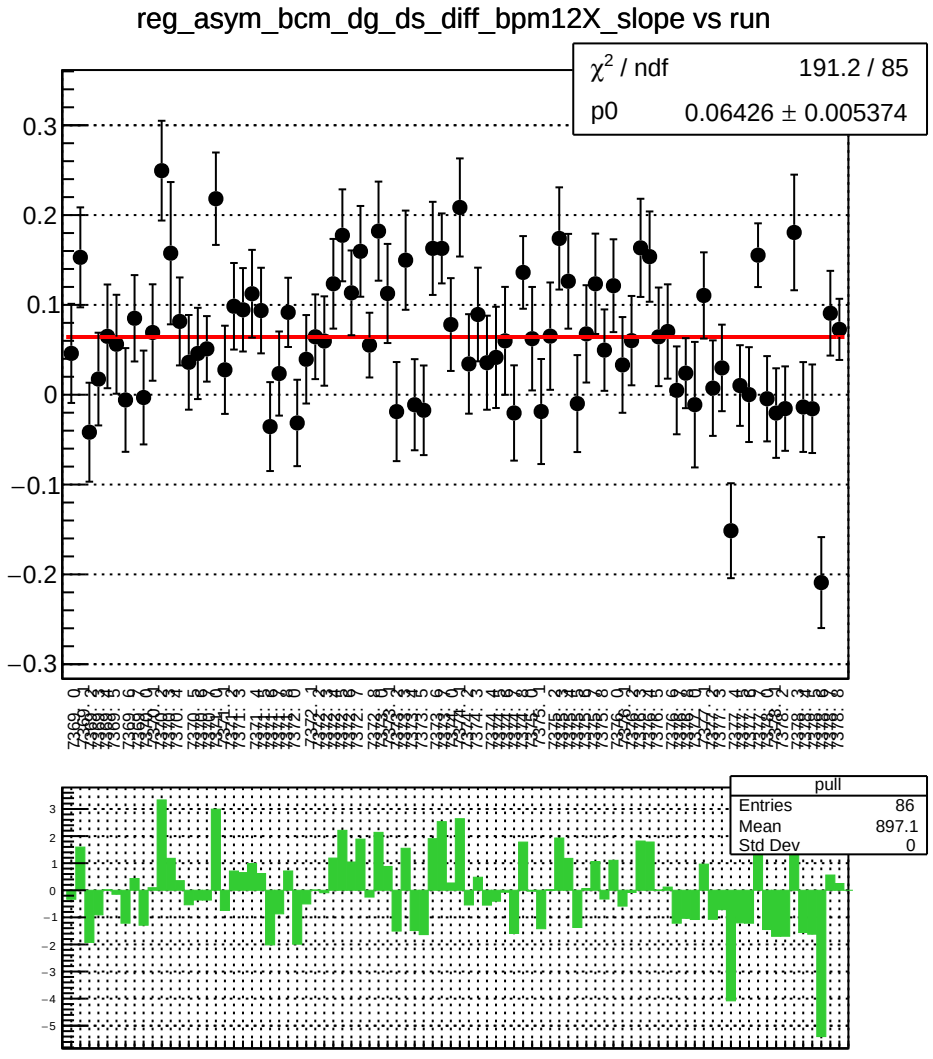

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 154.2 / 85
p0 −2.279 ± 0.1029
pull
Entries 86
Mean 49.93
Std Dev 26

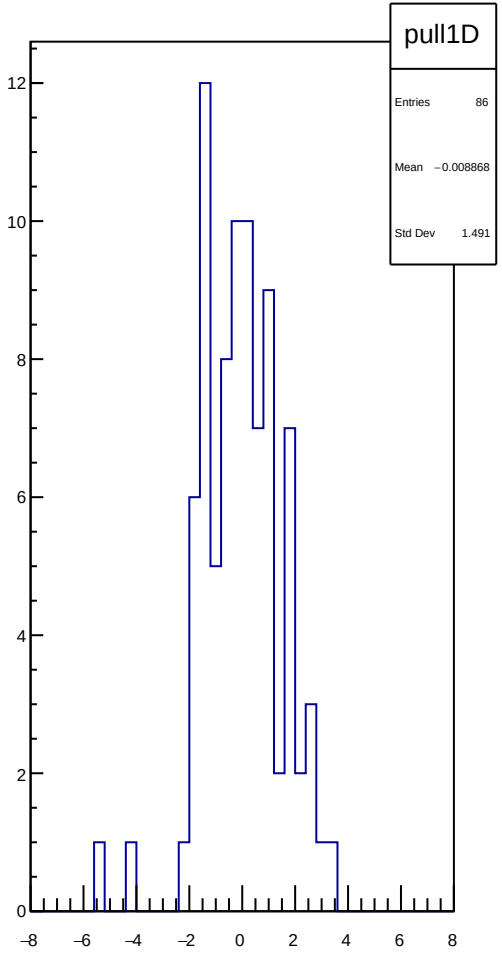

pull1D
Entries 86
Mean −0.1134
Std Dev 1.334

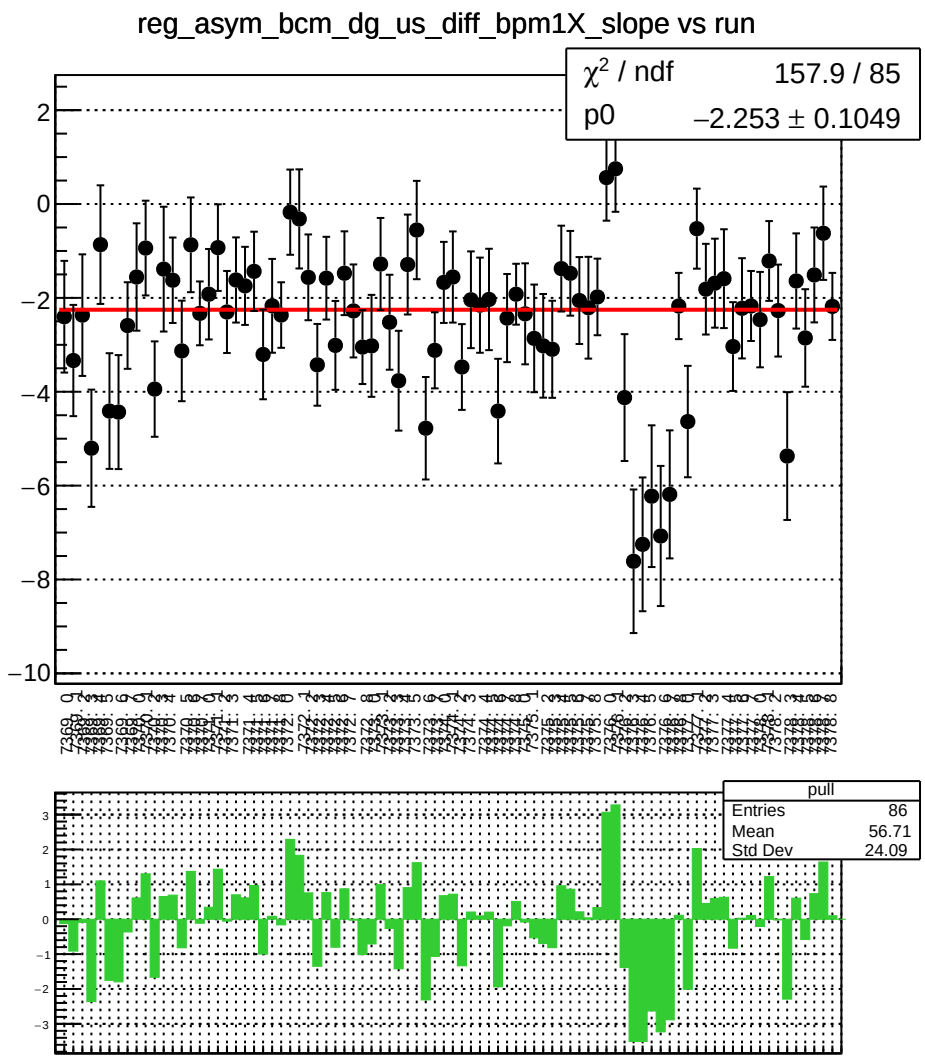

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 125.3 / 85
p0 −0.9035 ± 0.113
pull
Entries 86
Mean 485.9
Std Dev 0
pull1D
Entries 86
Mean 0.01692
Std Dev 1.207

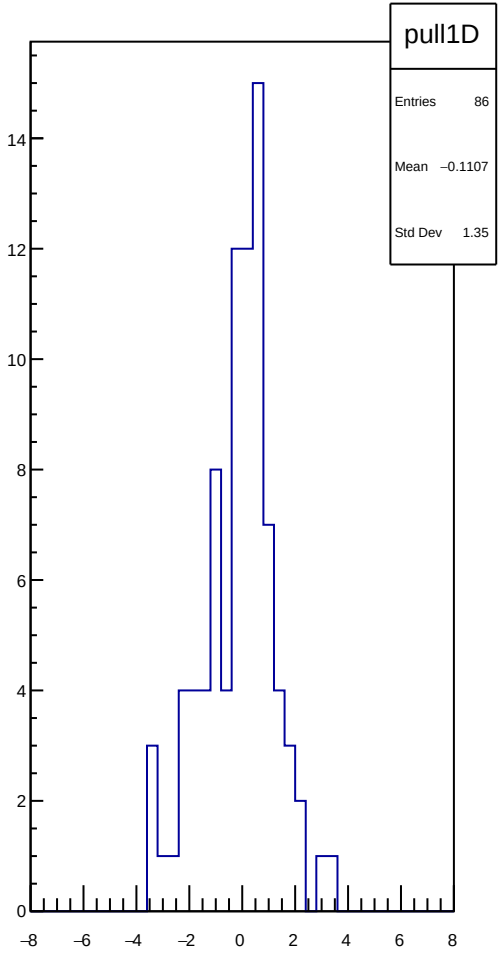

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 157.6 / 85
p0 2.666 ± 0.1068
pull
Entries 86
Mean 65.77
Std Dev 0
pull1D
Entries 86
Mean 0.1111
Std Dev 1.349

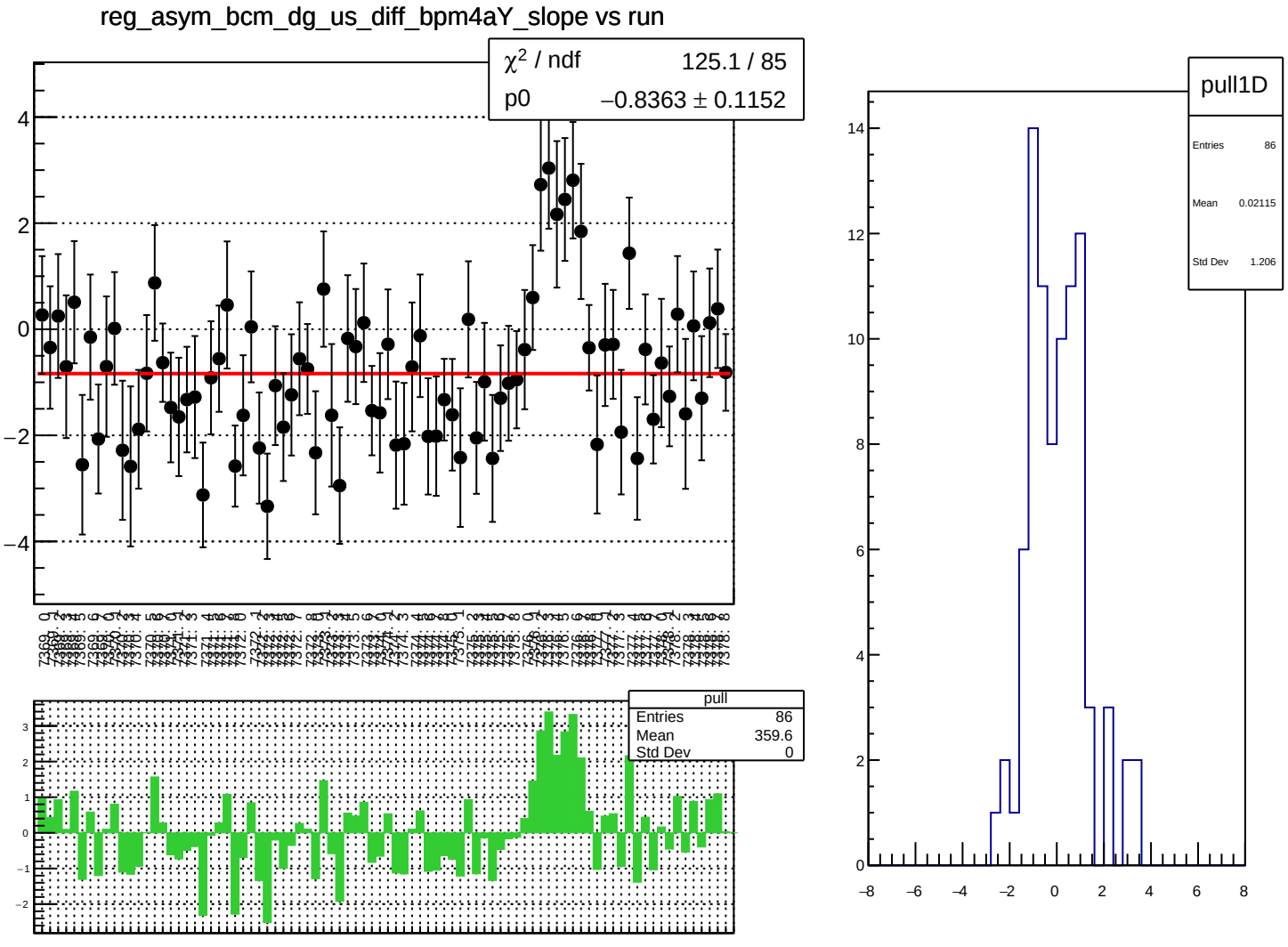

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 139.3 / 85
p0 0.1722 ± 0.1199
pull
Entries 86
Mean 763.7
Std Dev 0
pull1D
Entries 86
Mean −0.01548
Std Dev 1.272

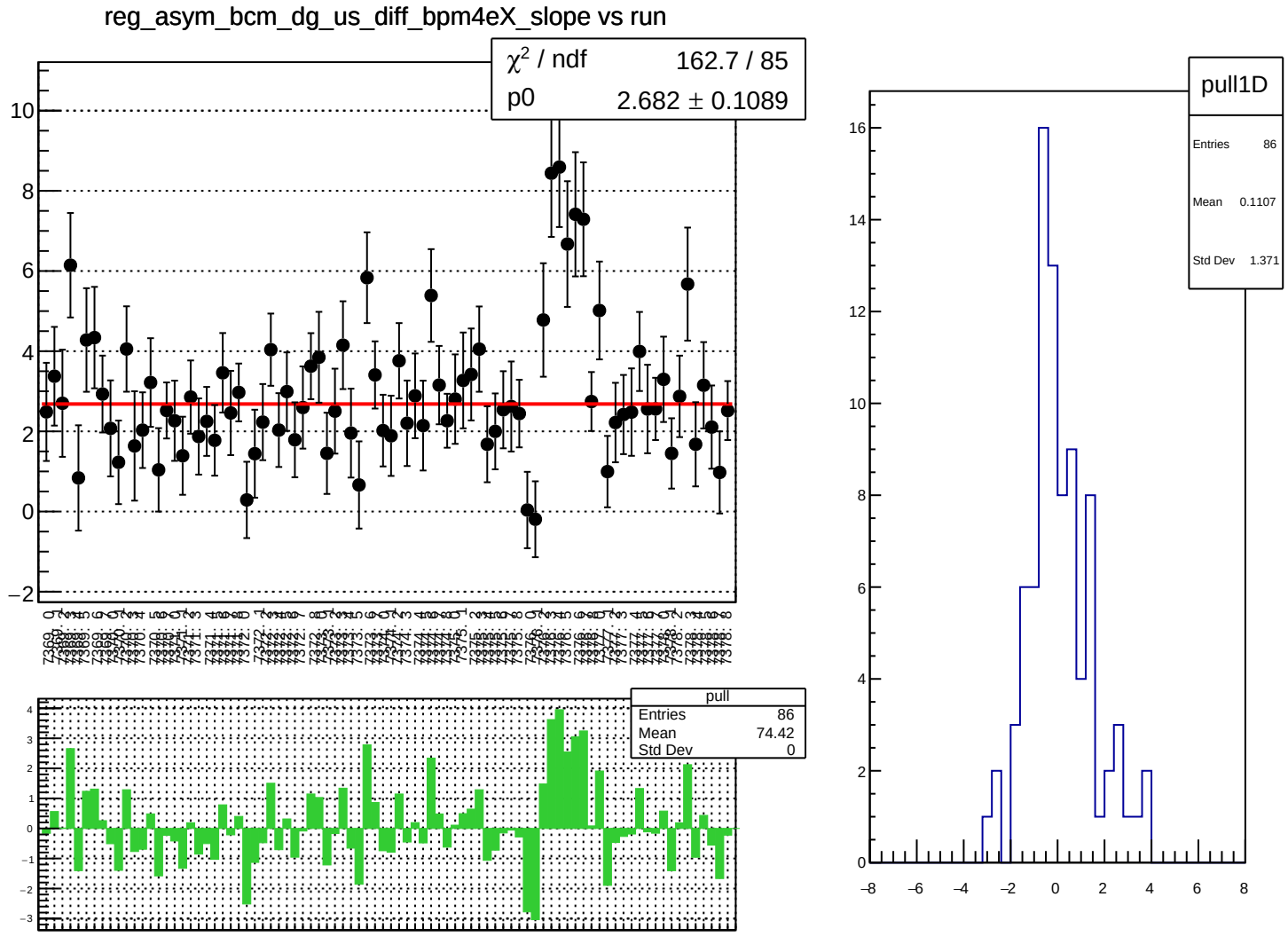

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 191.2 / 85
p0 0.06426 ± 0.005374
pull
Entries 86
Mean 897.1
Std Dev 0

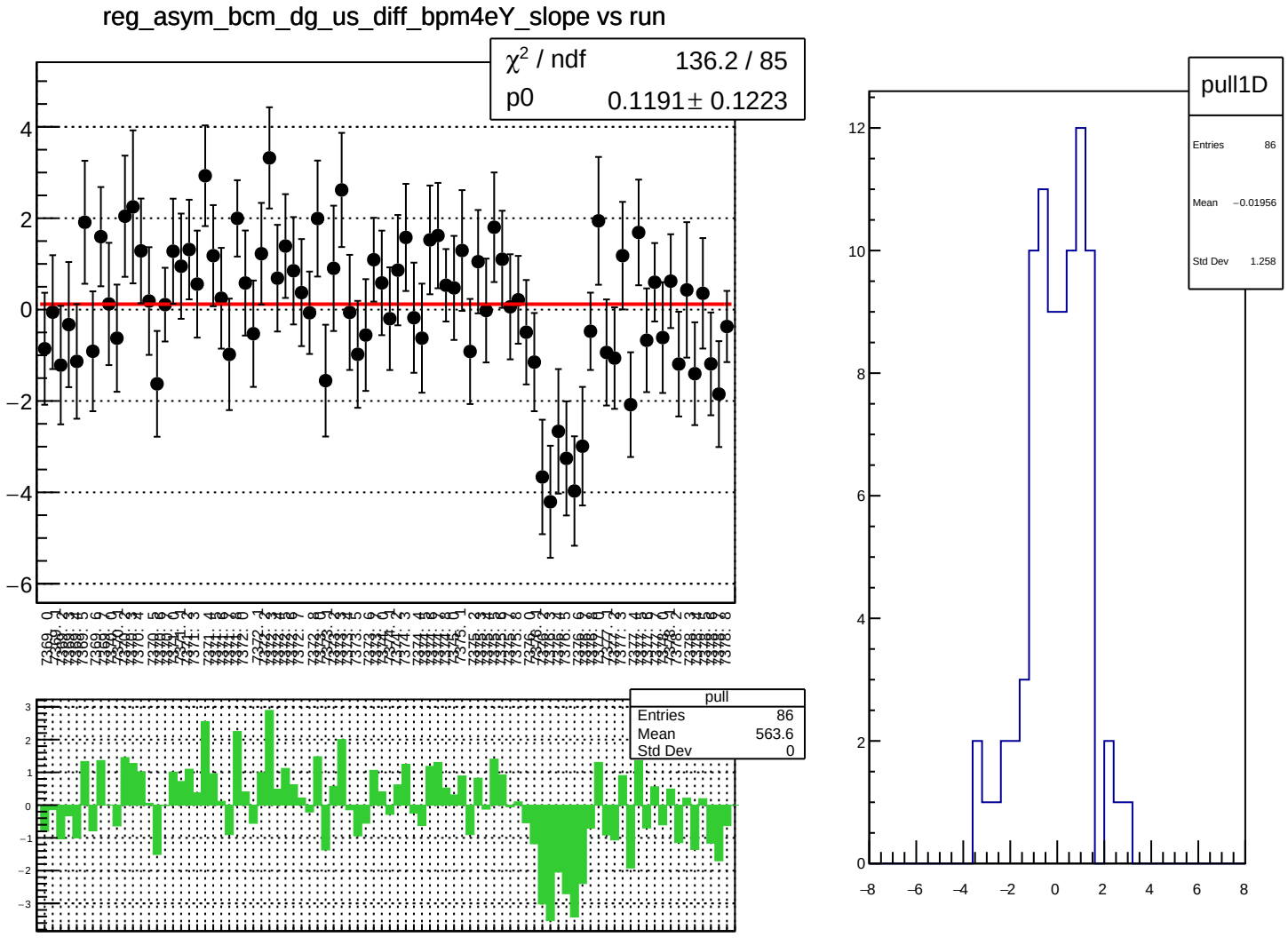

pull1D
Entries 86
Mean −0.008868
Std Dev 1.491

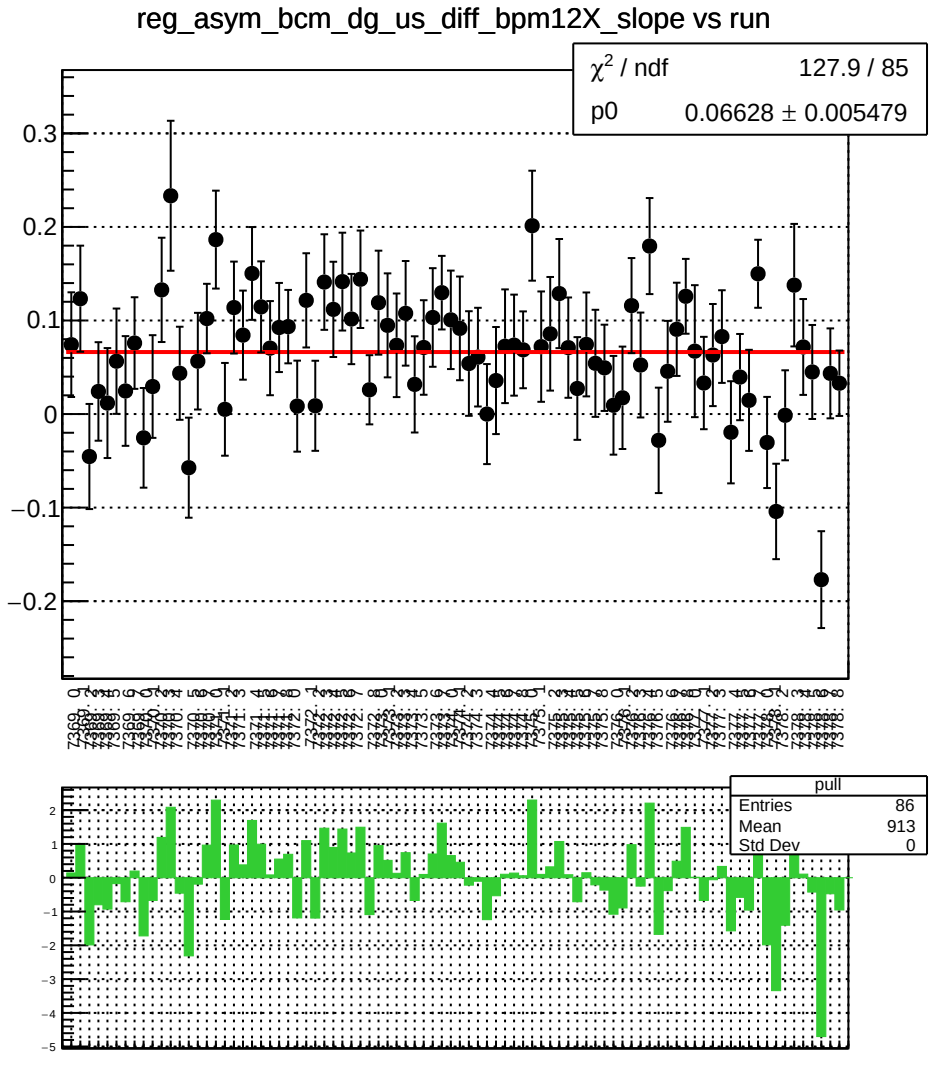

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 157.9 / 85
p0 −2.253 ± 0.1049
pull
Entries 86
Mean 56.71
Std Dev 24.09

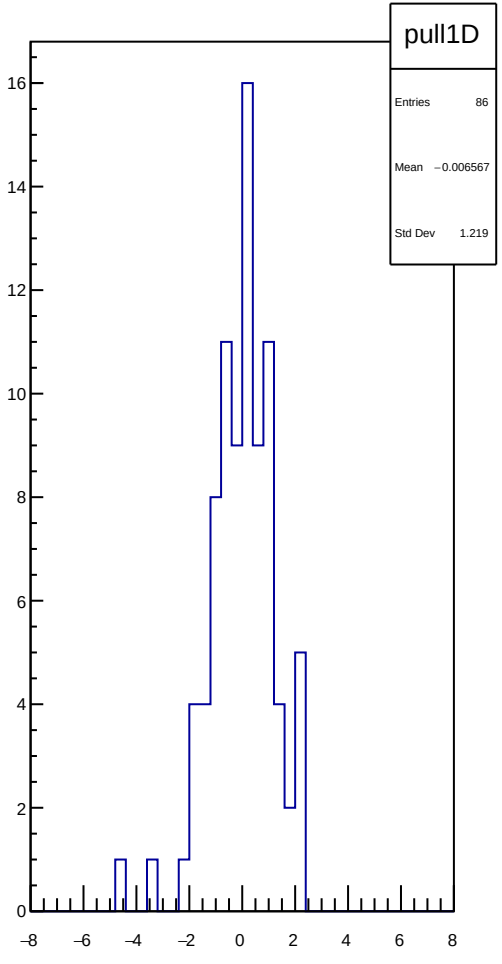

pull1D
Entries 86
Mean −0.1107
Std Dev 1.35

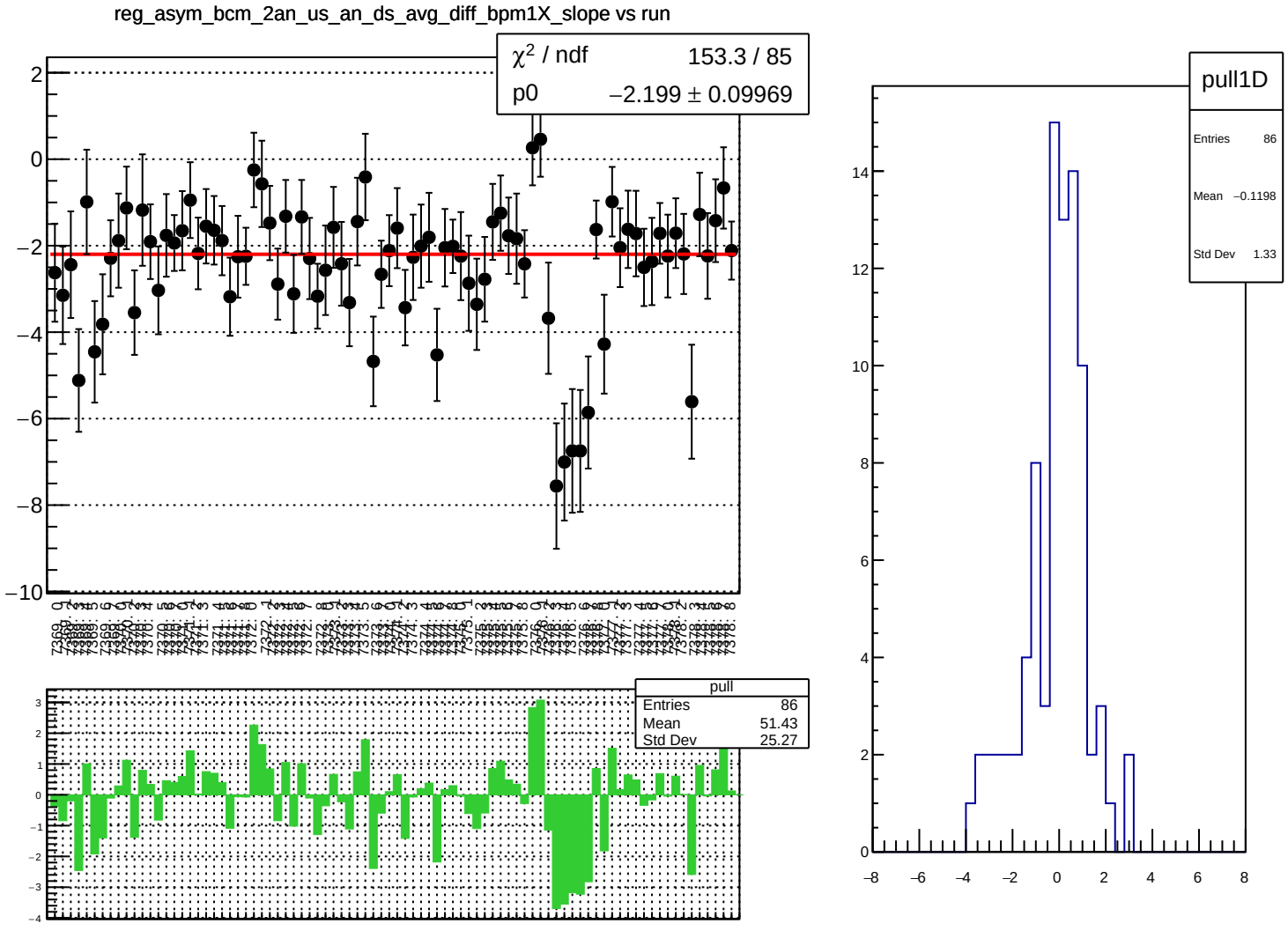

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 125.1 / 85
p0 −0.8363 ± 0.1152
pull
Entries 86
Mean 359.6
Std Dev 0
pull1D
Entries 86
Mean 0.02115
Std Dev 1.206

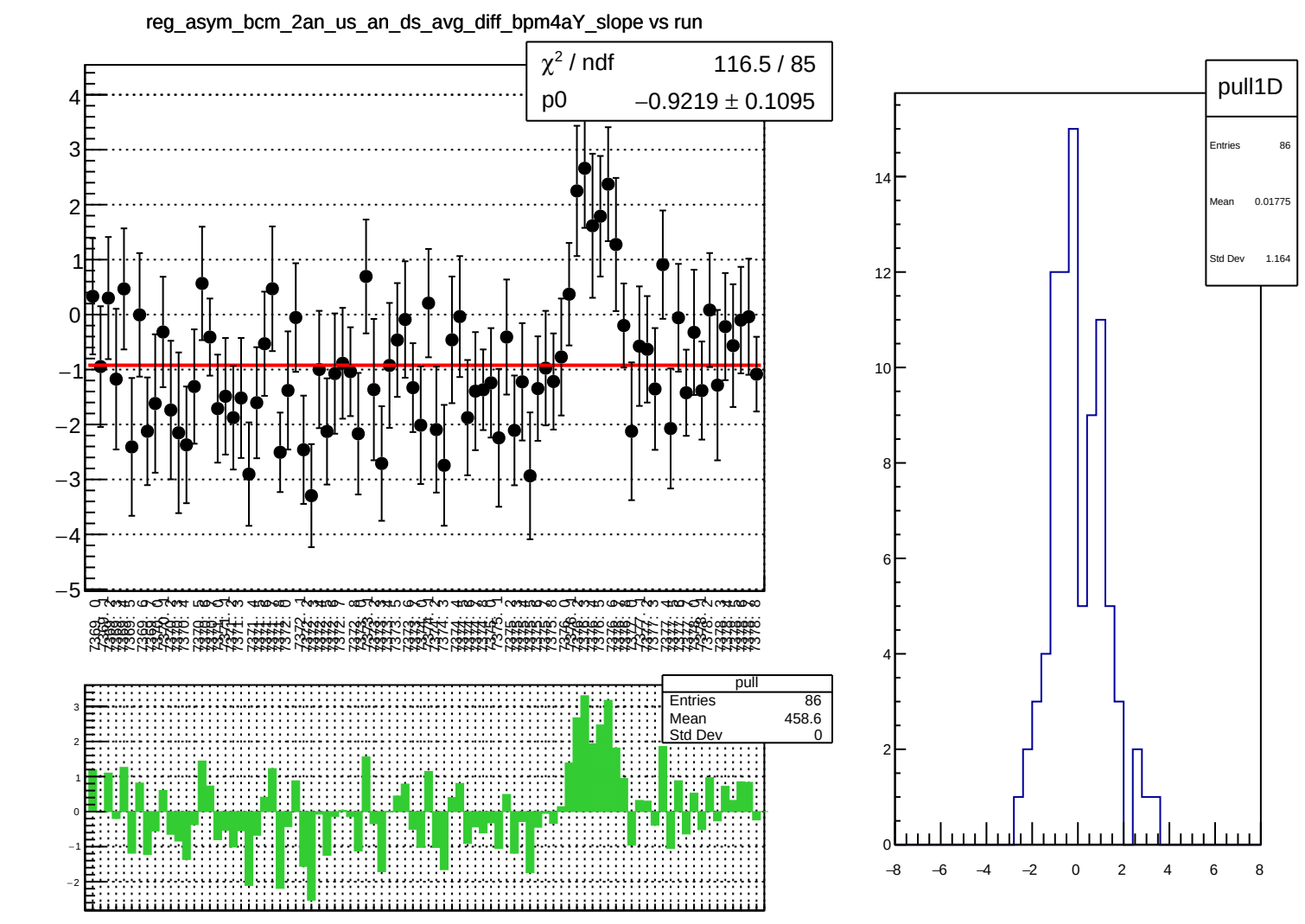

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 162.7 / 85
p0 2.682 ± 0.1089
pull
Entries 86
Mean 74.42
Std Dev 0
pull1D
Entries 86
Mean 0.1107
Std Dev 1.371

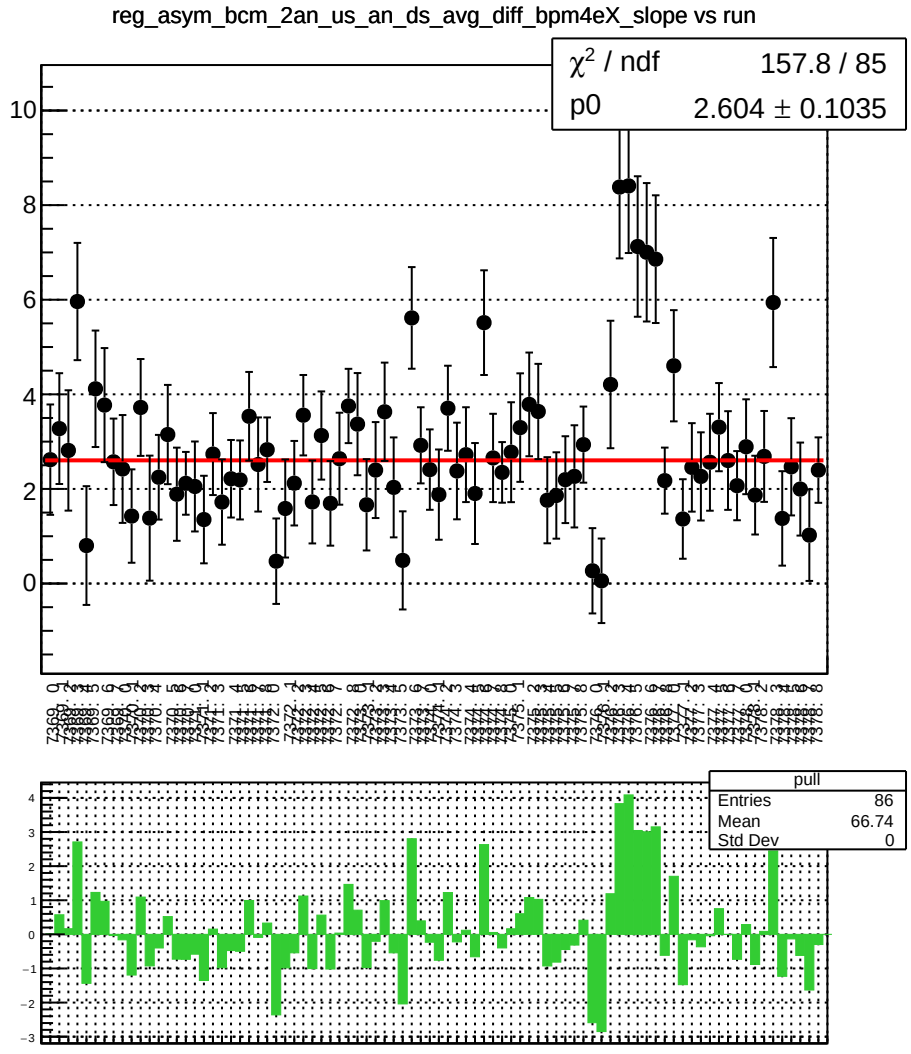

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 136.2 / 85
p0 0.1191± 0.1223
pull
Entries 86
Mean 563.6
Std Dev 0
pull1D
Entries 86
Mean −0.01956
Std Dev 1.258

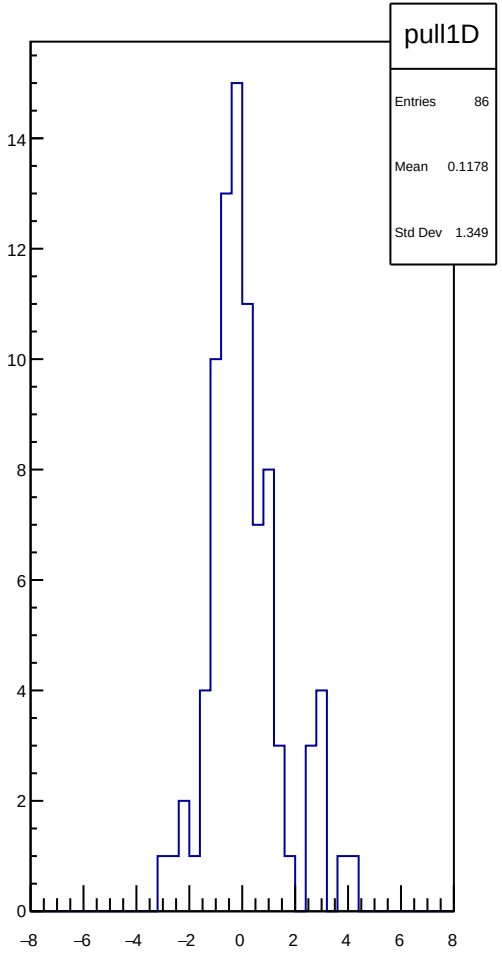

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 127.9 / 85
p0 0.06628 ± 0.005479
pull
Entries 86
Mean 913
Std Dev 0

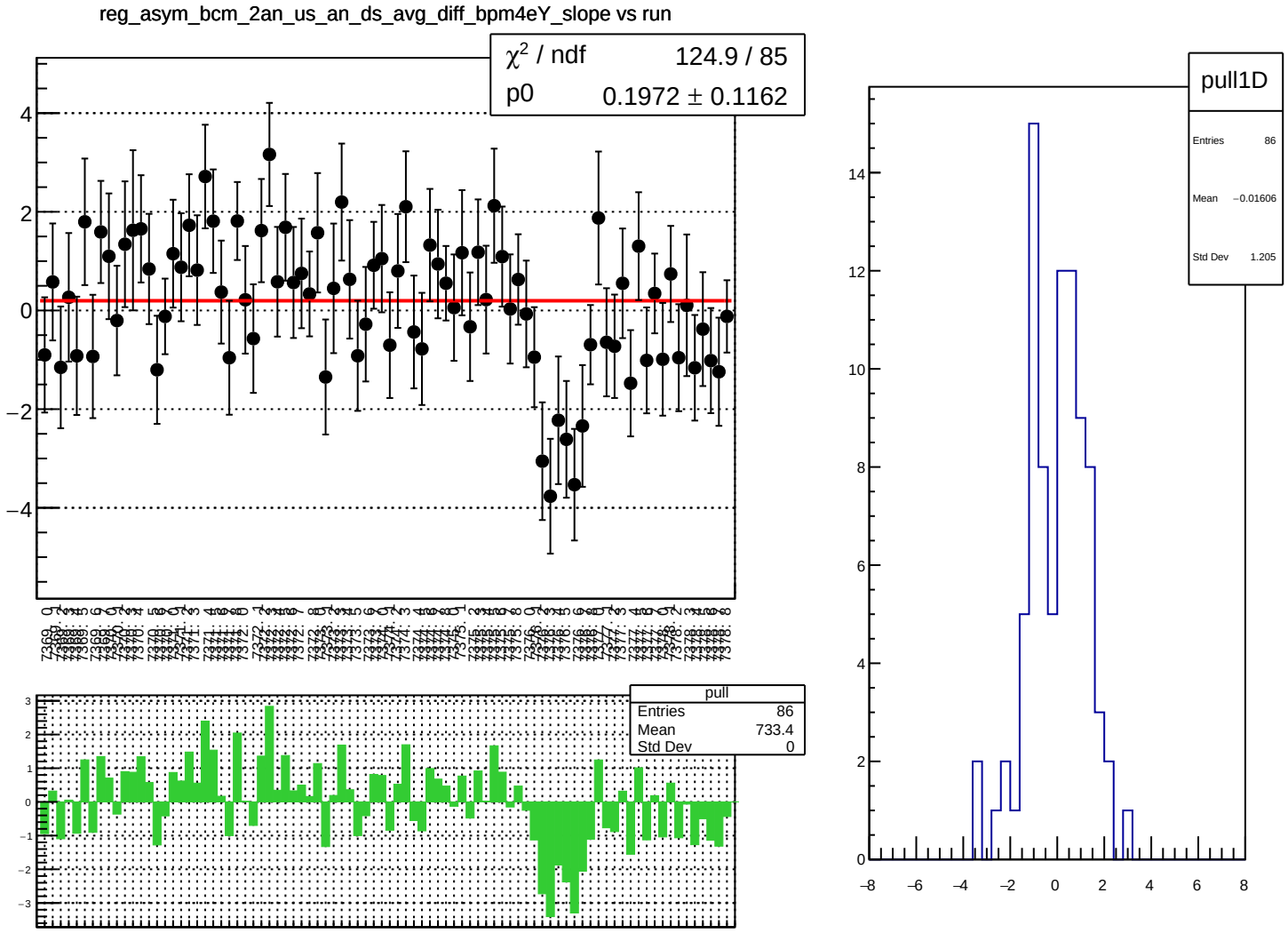

pull1D
Entries 86
Mean −0.006567
Std Dev 1.219

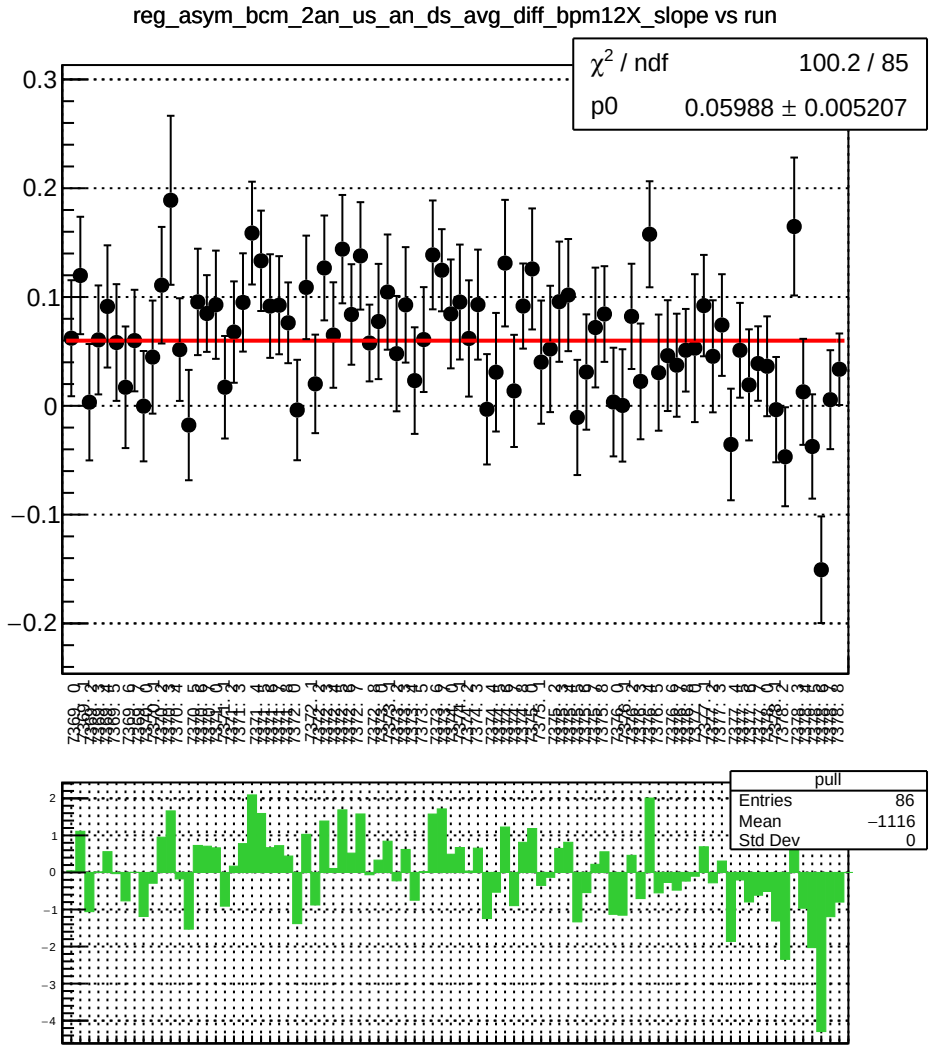

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 153.3 / 85
p0 −2.199 ± 0.09969
pull
Entries 86
Mean 51.43
Std Dev 25.27
pull1D
Entries 86
Mean −0.1198
Std Dev 1.33

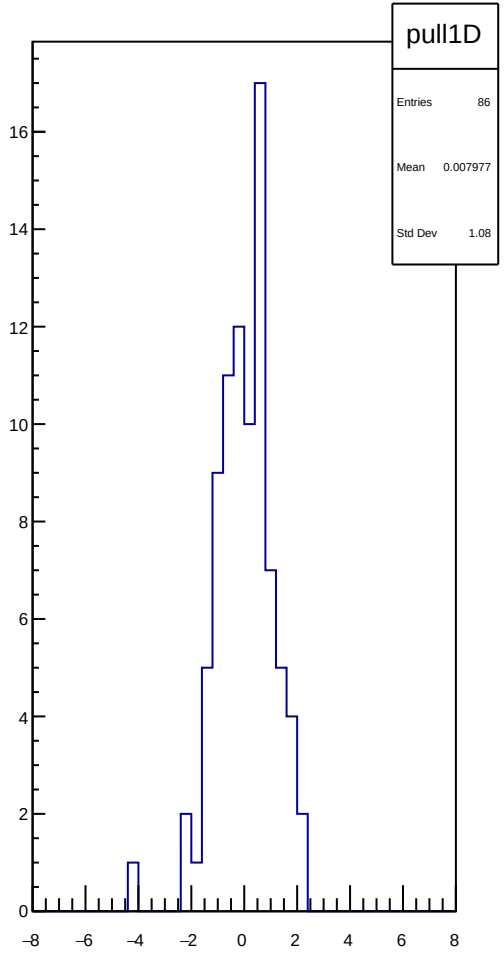

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 116.5 / 85
p0 −0.9219 ± 0.1095
pull
Entries 86
Mean 458.6
Std Dev 0
pull1D
Entries 86
Mean 0.01775
Std Dev 1.164

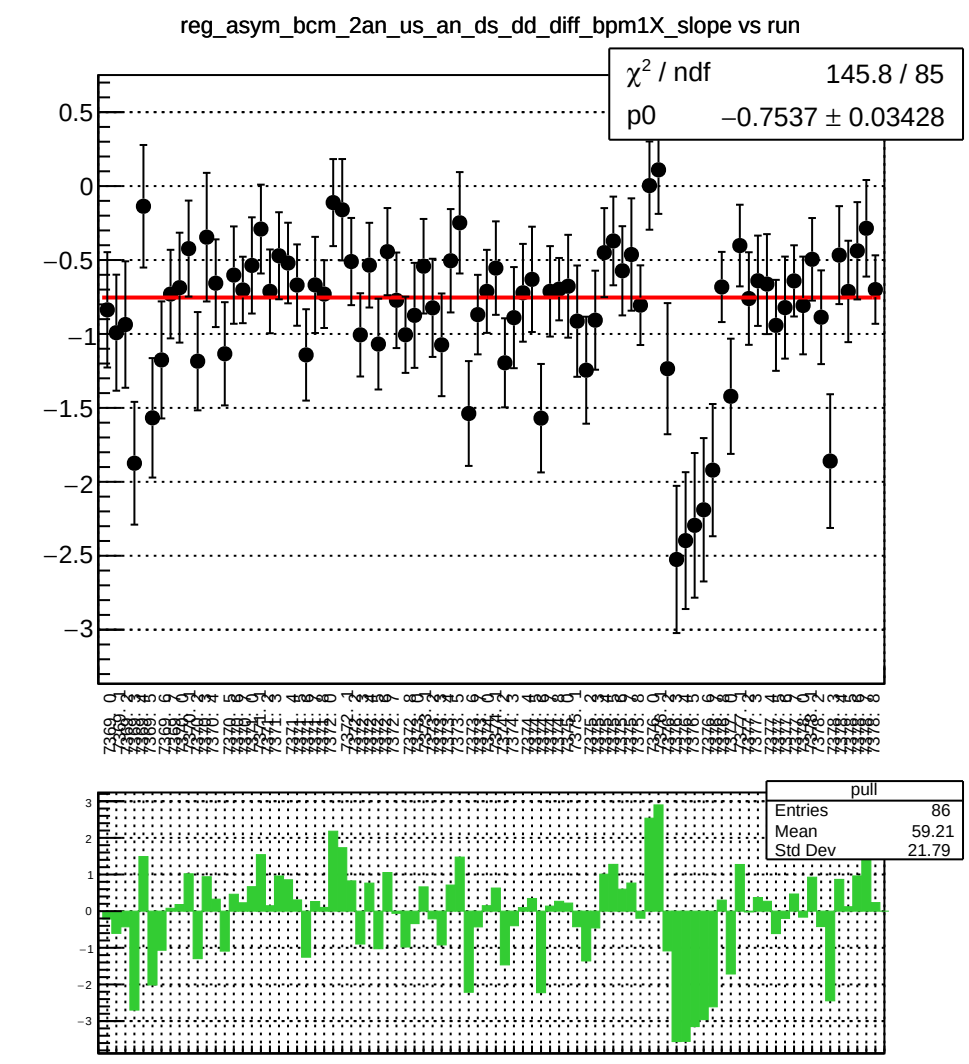

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 157.8 / 85
p0 2.604 ± 0.1035
pull
Entries 86
Mean 66.74
Std Dev 0

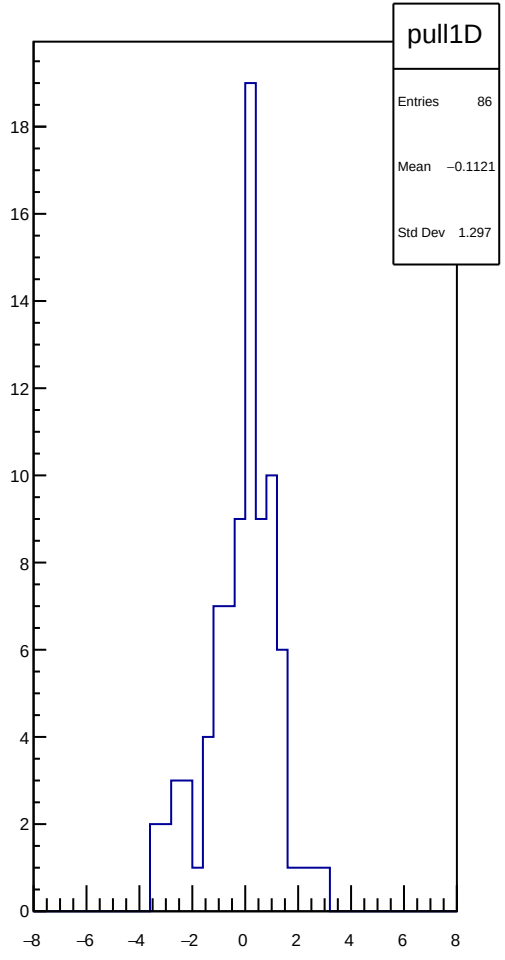

pull1D
Entries 86
Mean 0.1178
Std Dev 1.349

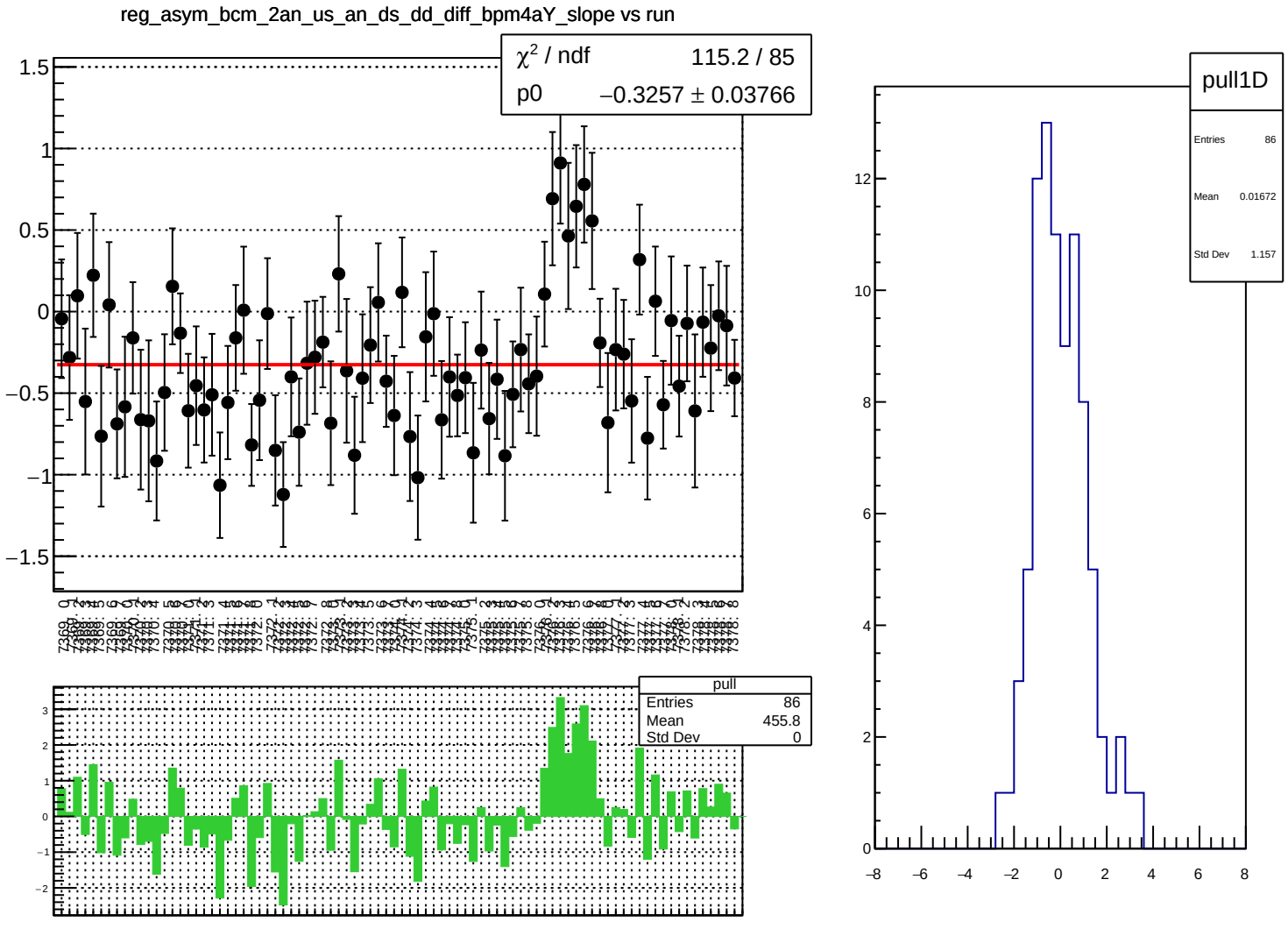

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 124.9 / 85
p0 0.1972 ± 0.1162
pull
Entries 86
Mean 733.4
Std Dev 0
pull1D
Entries 86
Mean −0.01606
Std Dev 1.205

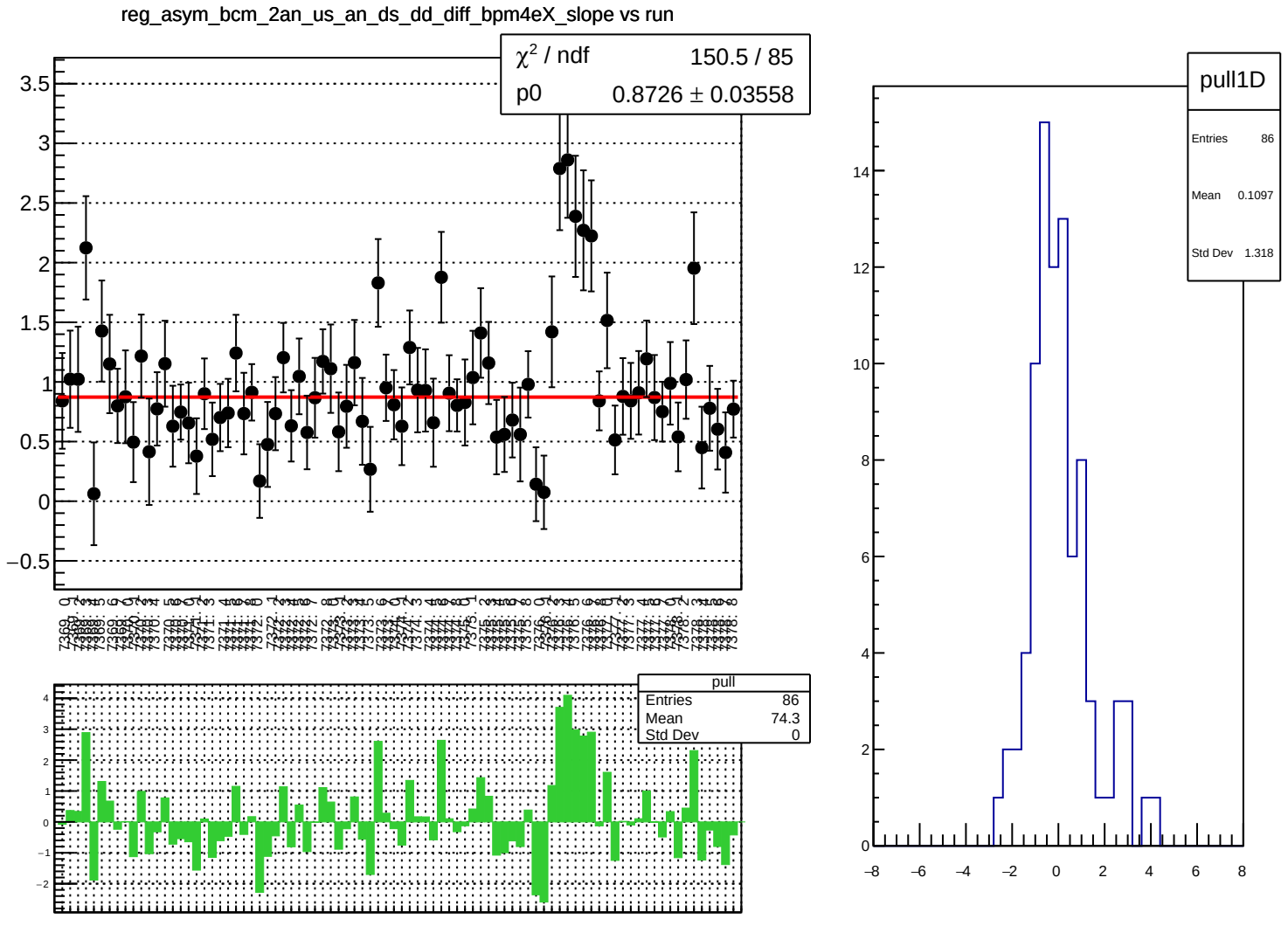

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 100.2 / 85
p0 0.05988 ± 0.005207
pull
Entries 86
Mean −1116
Std Dev 0

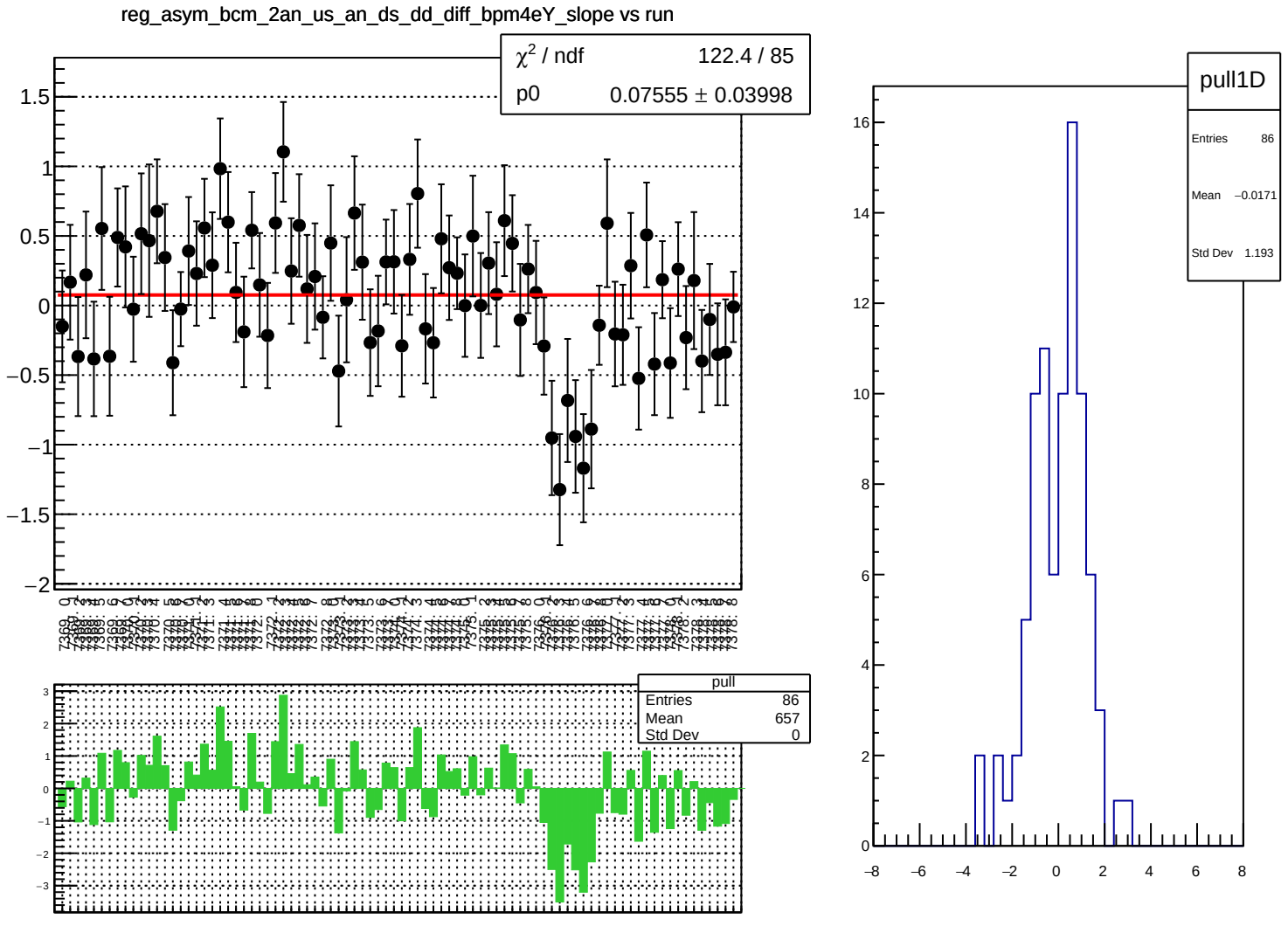

pull1D
Entries 86
Mean 0.007977
Std Dev 1.08

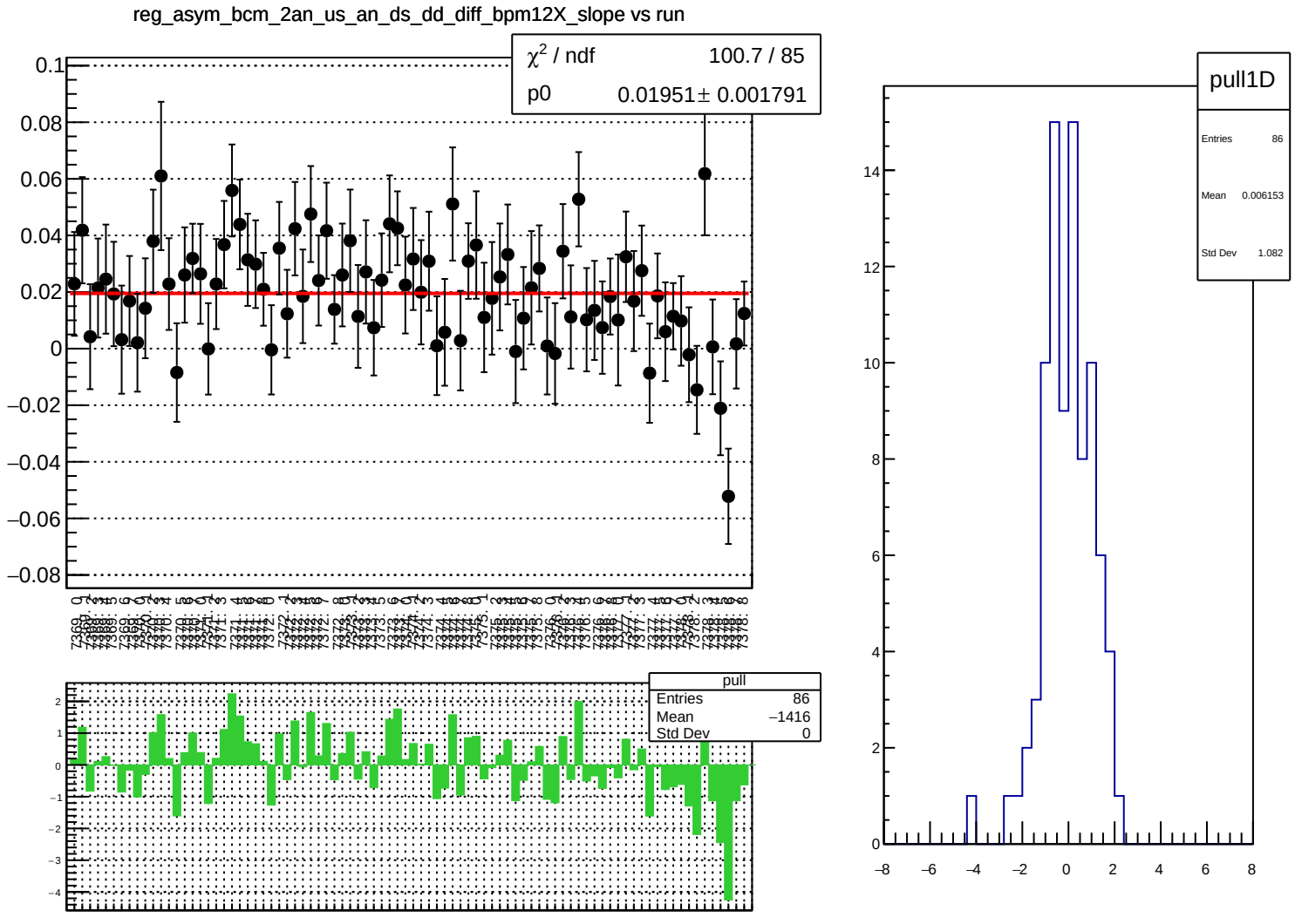

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 145.8 / 85
p0 −0.7537 ± 0.03428
pull
Entries 86
Mean 59.21
Std Dev 21.79

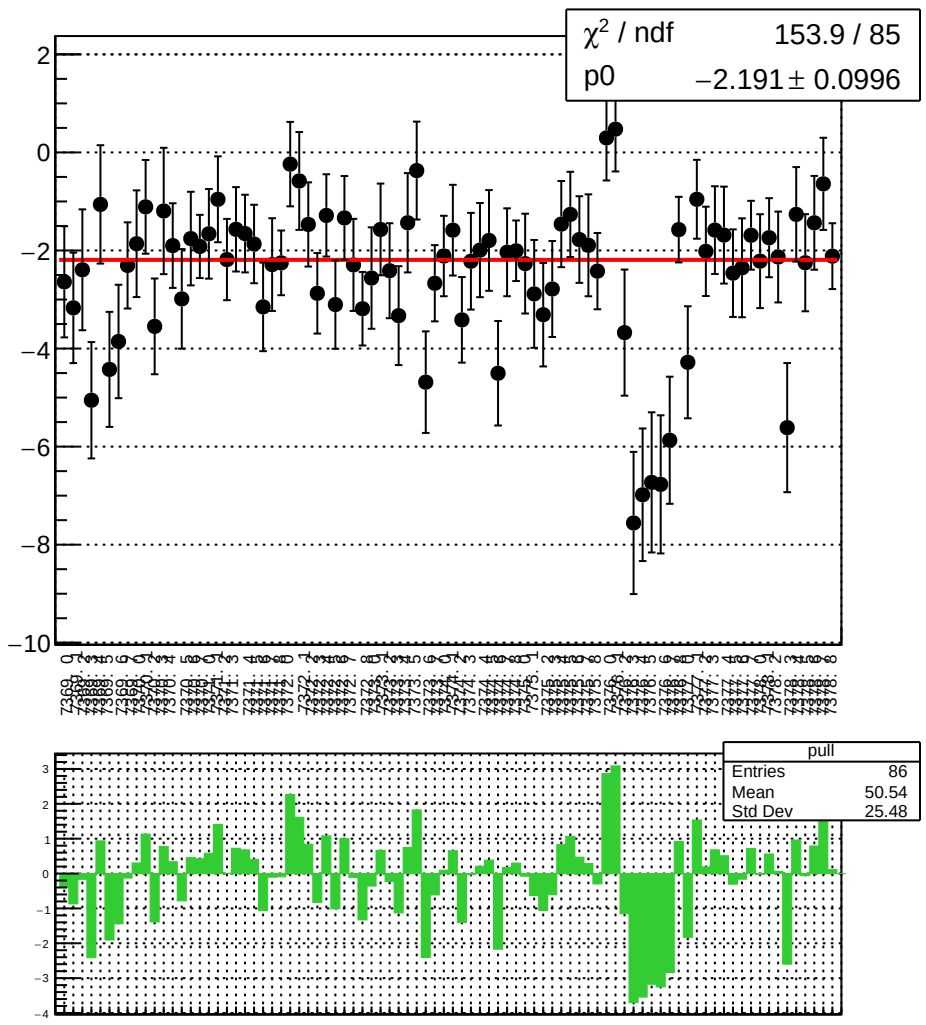

pull1D
Entries 86
Mean −0.1121
Std Dev 1.297

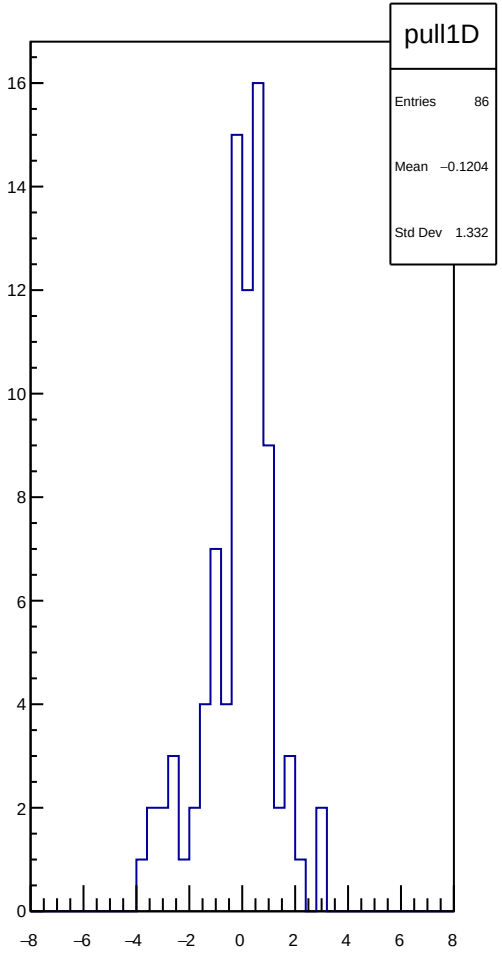

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 115.2 / 85
p0 −0.3257 ± 0.03766
pull
Entries 86
Mean 455.8
Std Dev 0
pull1D
Entries 86
Mean 0.01672
Std Dev 1.157

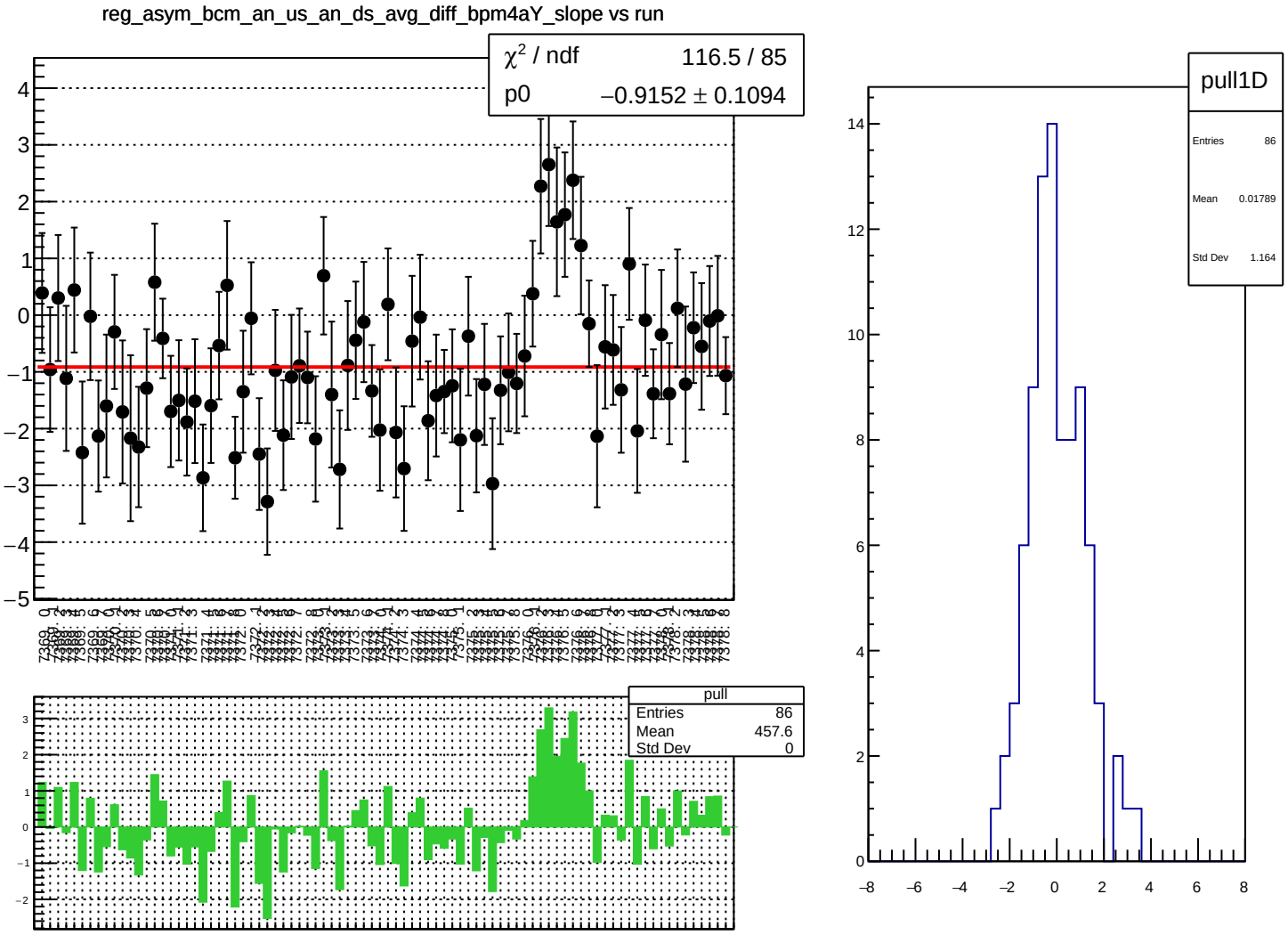

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 150.5 / 85
p0 0.8726 ± 0.03558
pull
Entries 86
Mean 74.3
Std Dev 0
pull1D
Entries 86
Mean 0.1097
Std Dev 1.318

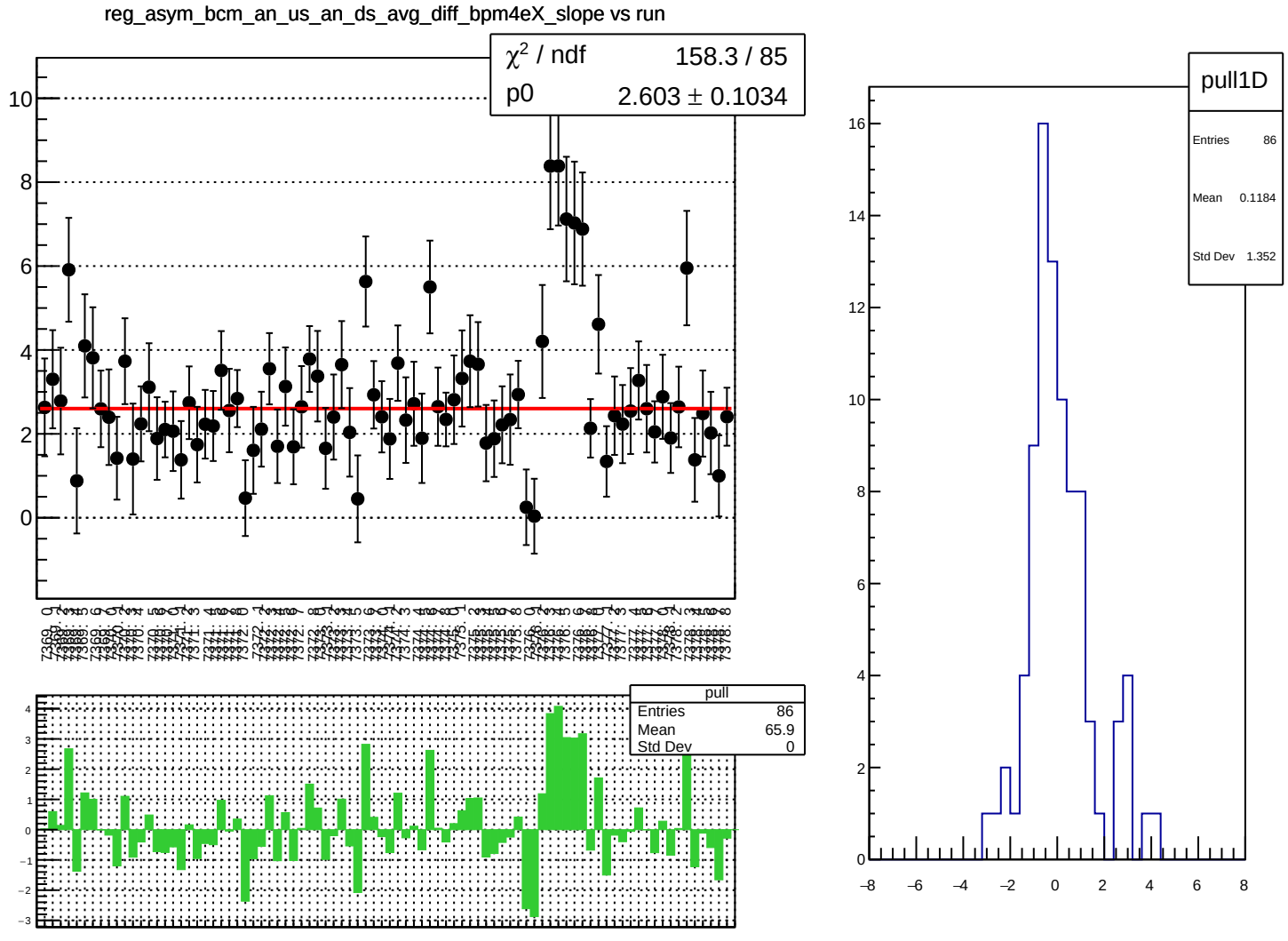

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 122.4 / 85
p0 0.07555 ± 0.03998
pull
Entries 86
Mean 657
Std Dev 0
pull1D
Entries 86
Mean −0.0171
Std Dev 1.193

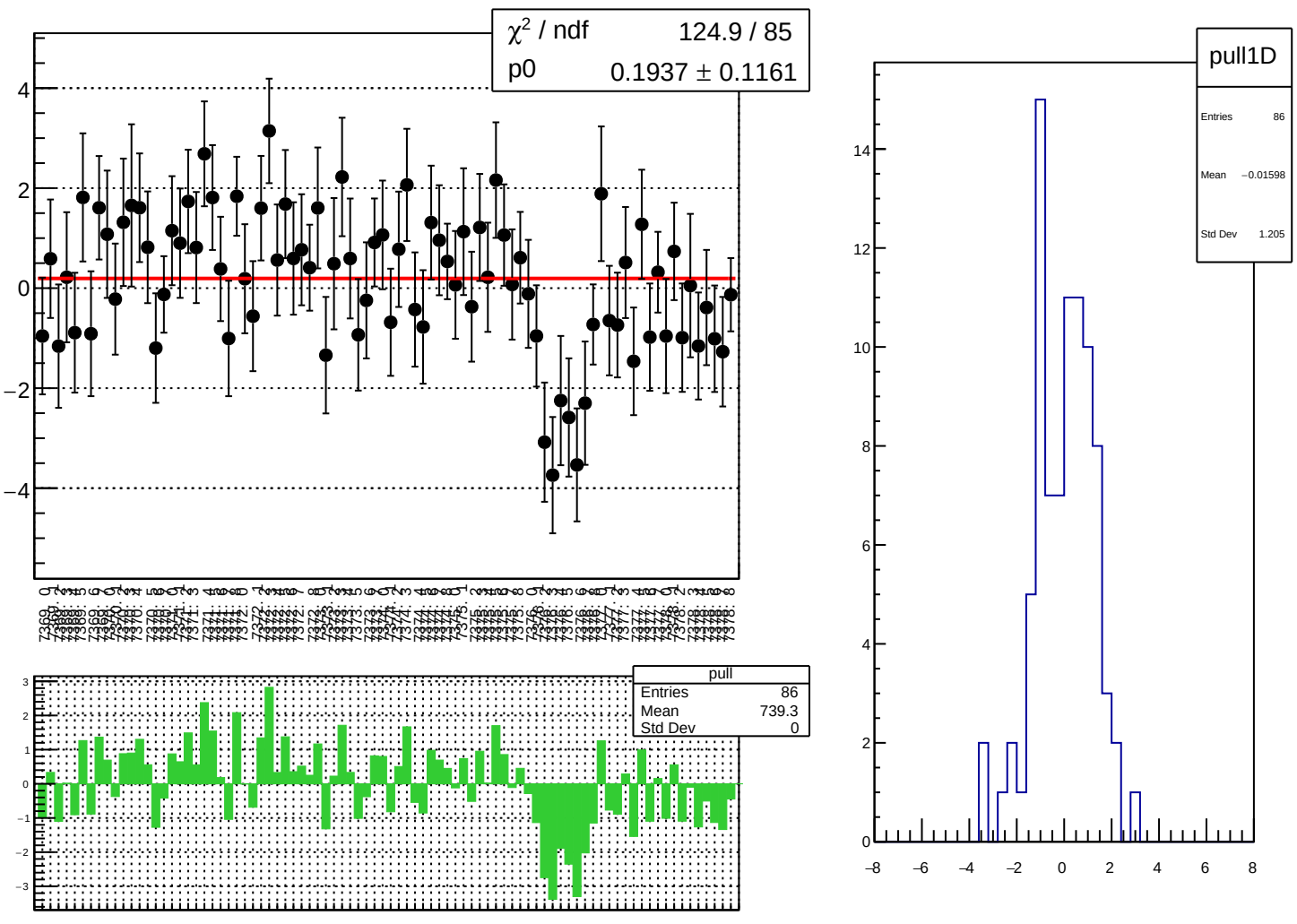

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 100.7 / 85
p0 0.01951± 0.001791
pull
Entries 86
Mean −1416
Std Dev 0
pull1D
Entries 86
Mean 0.006153
Std Dev 1.082

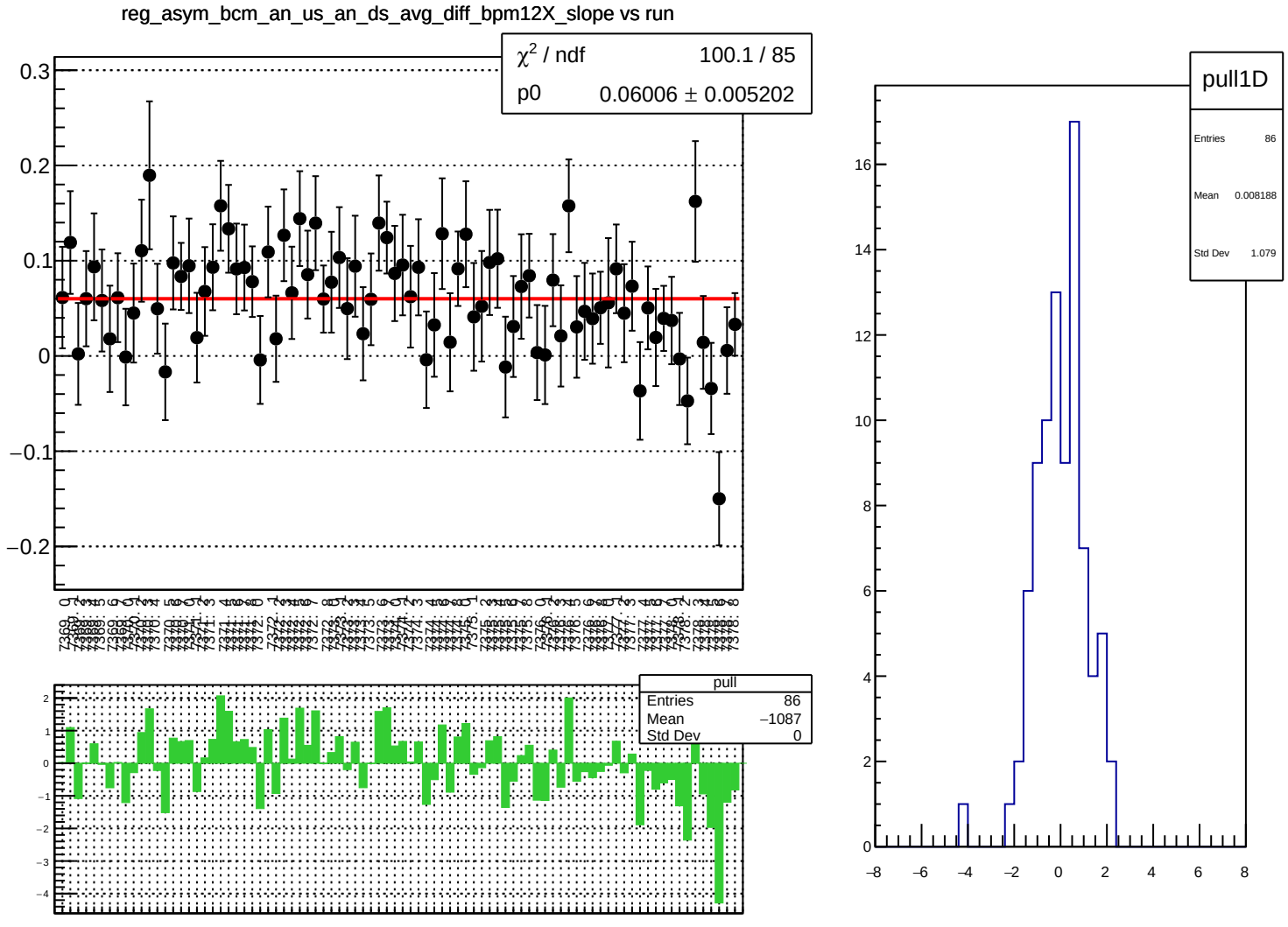

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 153.9 / 85
p0 −2.191 ± 0.0996
pull
Entries 86
Mean 50.54
Std Dev 25.48

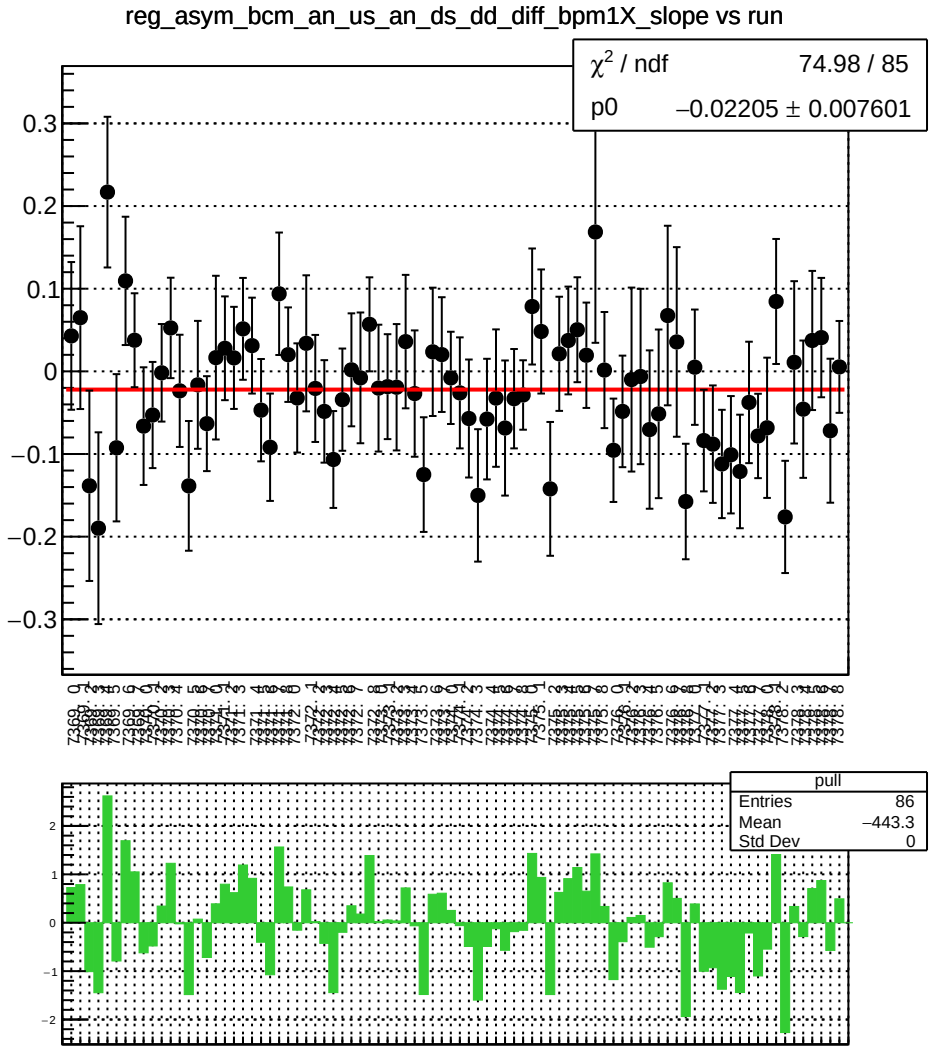

pull1D
Entries 86
Mean −0.1204
Std Dev 1.332

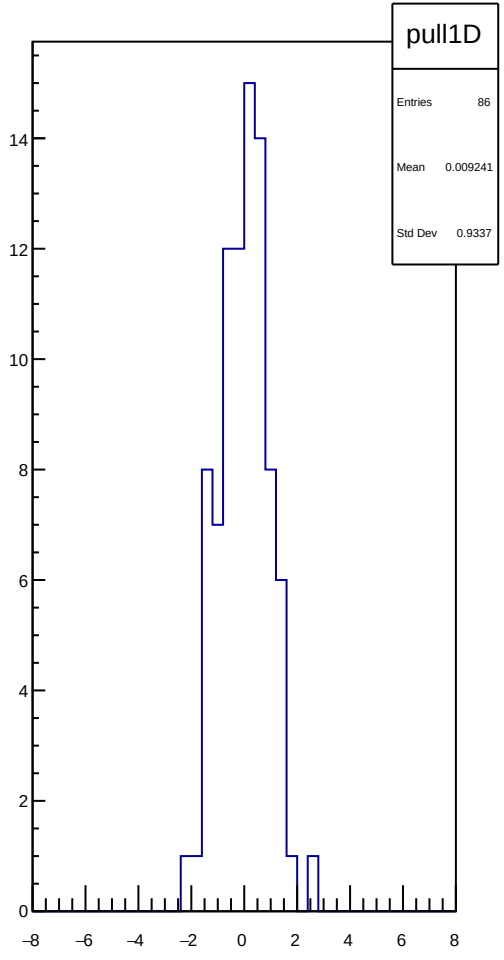

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 116.5 / 85
p0 −0.9152 ± 0.1094
pull
Entries 86
Mean 457.6
Std Dev 0
pull1D
Entries 86
Mean 0.01789
Std Dev 1.164

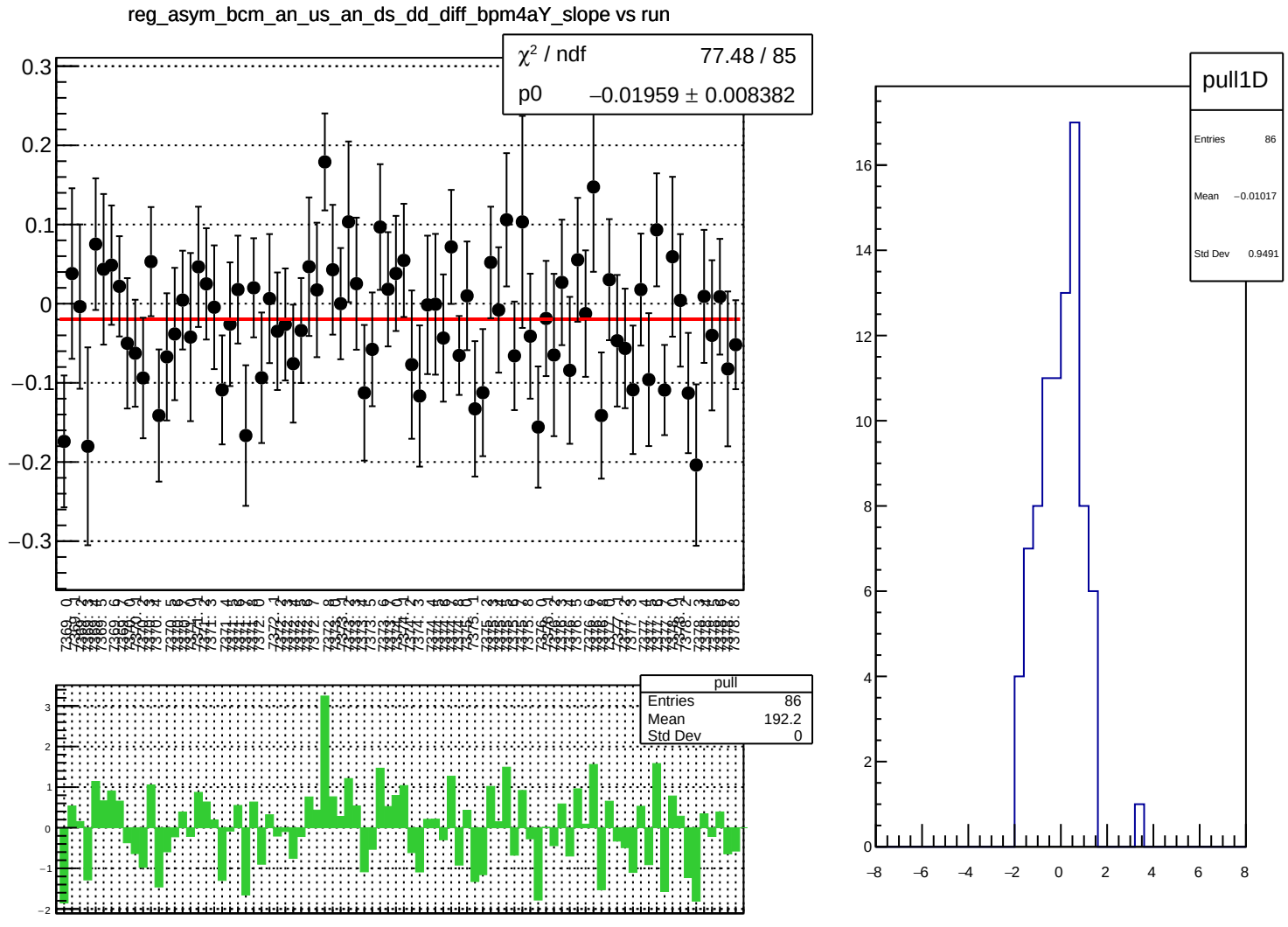

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 158.3 / 85
p0 2.603 ± 0.1034
pull
Entries 86
Mean 65.9
Std Dev 0
pull1D
Entries 86
Mean 0.1184
Std Dev 1.352

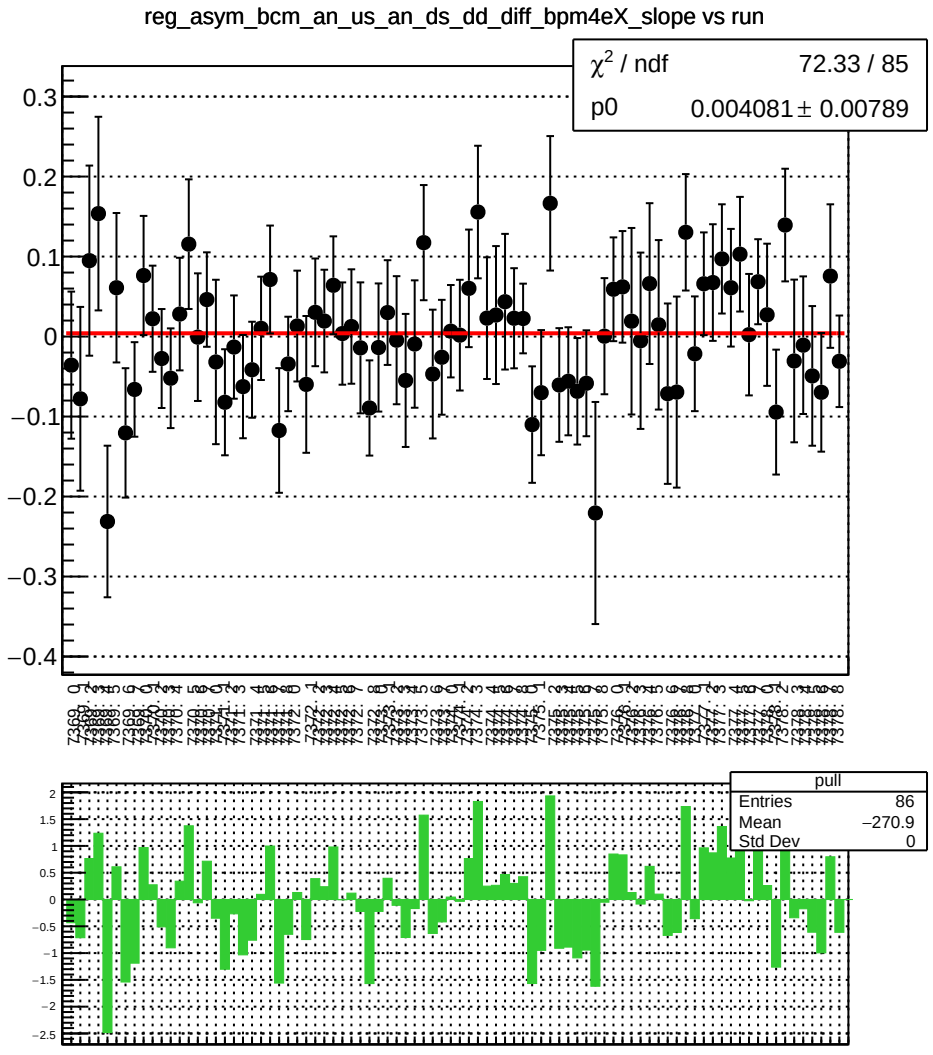

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 124.9 / 85
p0 0.1937 ± 0.1161
pull
Entries 86
Mean 739.3
Std Dev 0
pull1D
Entries 86
Mean −0.01598
Std Dev 1.205

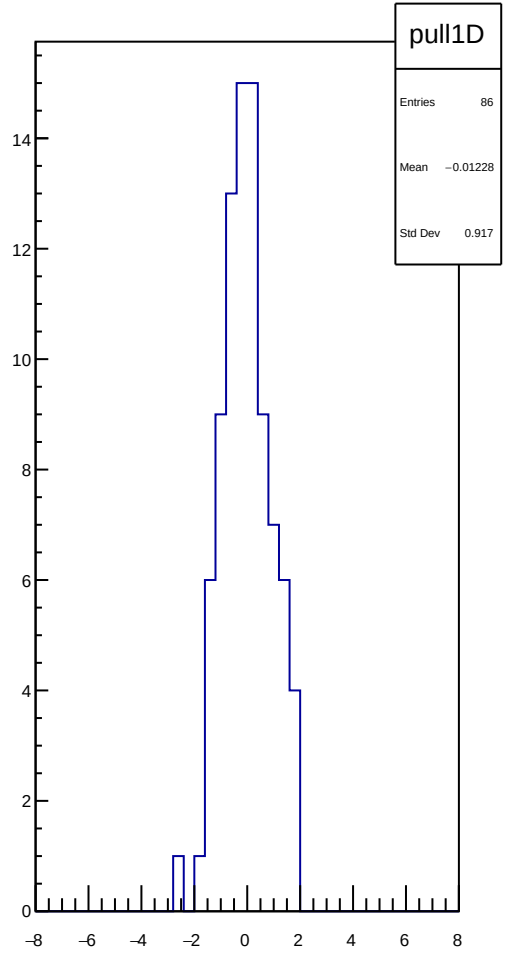

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 100.1 / 85
p0 0.06006 ± 0.005202
pull
Entries 86
Mean −1087
Std Dev 0
pull1D
Entries 86
Mean 0.008188
Std Dev 1.079

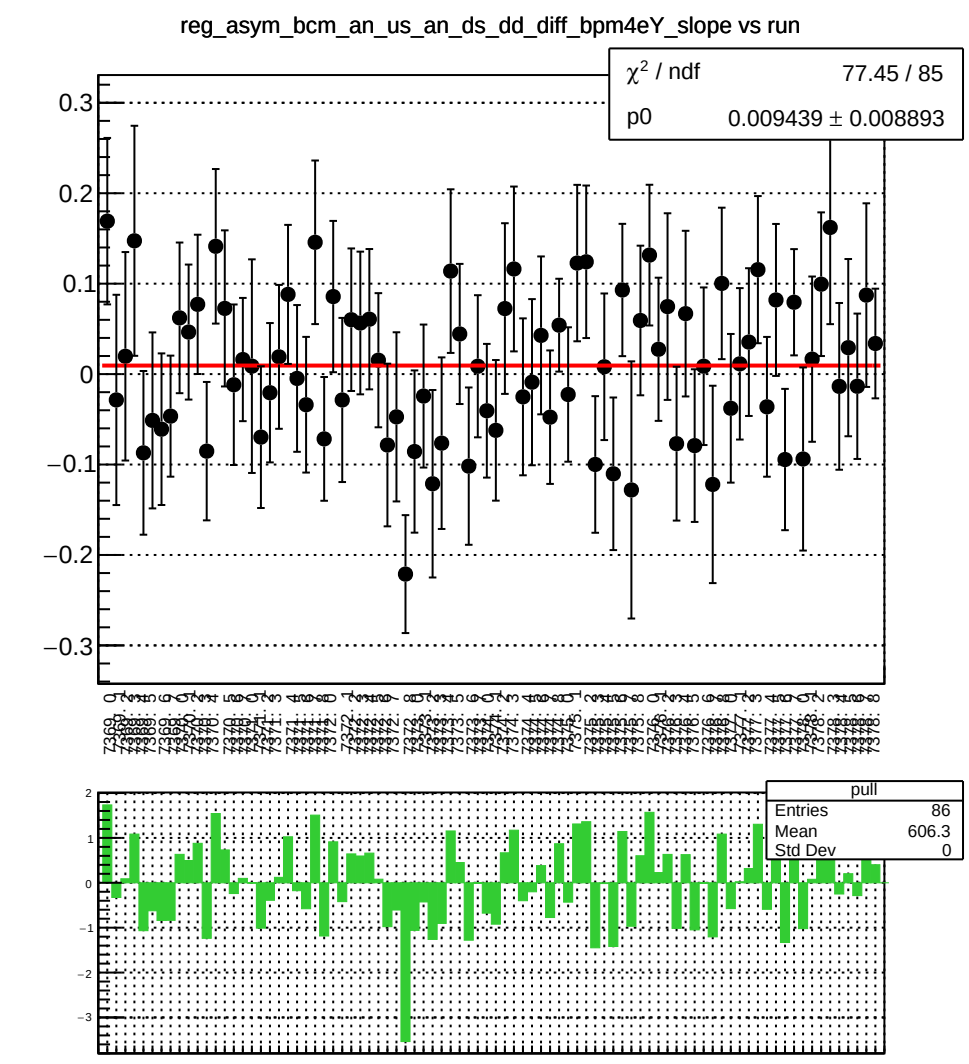

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 74.98 / 85
p0 −0.02205 ± 0.007601
pull
Entries 86
Mean −443.3
Std Dev 0

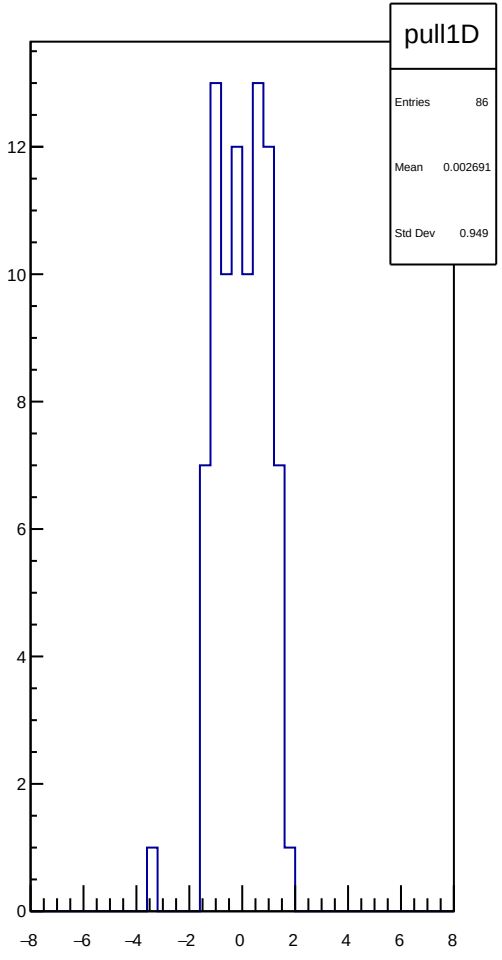

pull1D
Entries 86
Mean 0.009241
Std Dev 0.9337

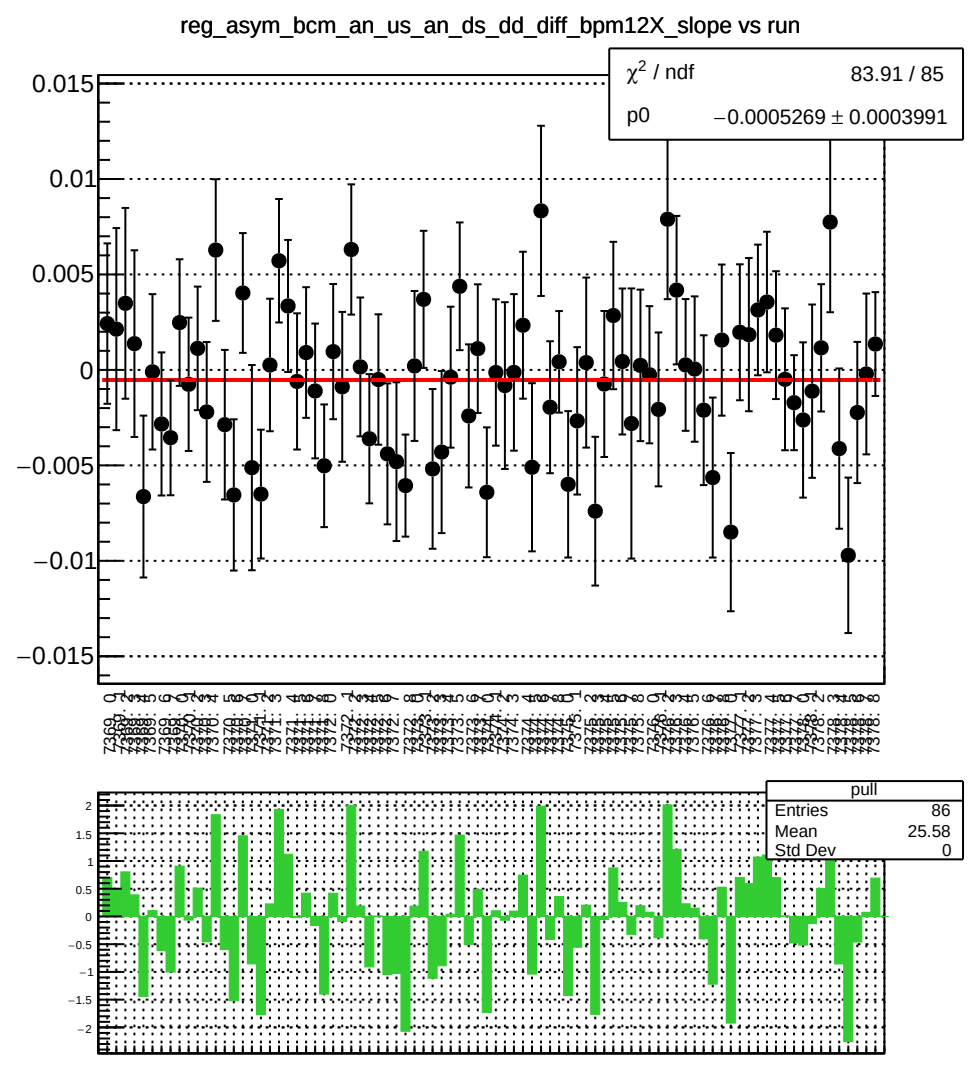

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.48 / 85
p0 −0.01959 ± 0.008382
pull
Entries 86
Mean 192.2
Std Dev 0
pull1D
Entries 86
Mean −0.01017
Std Dev 0.9491

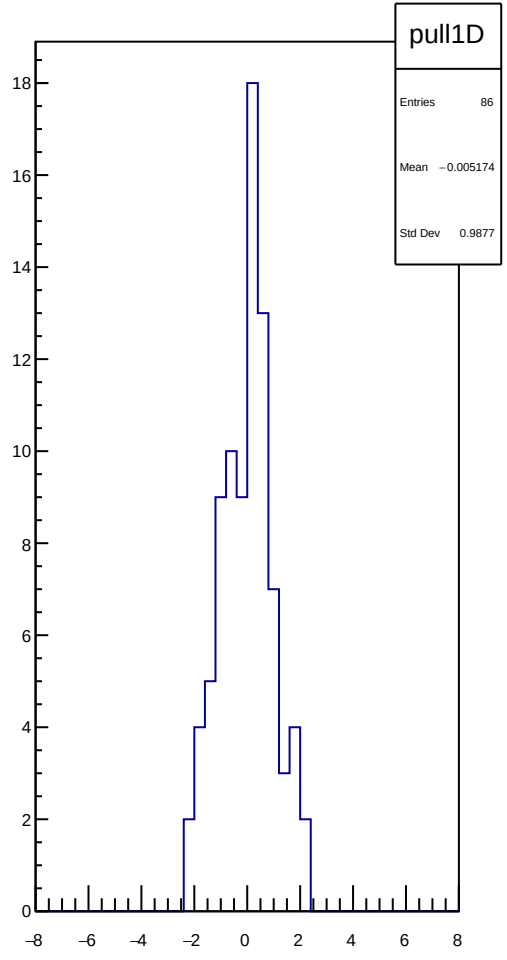

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.33 / 85
p0 0.004081 ± 0.00789
pull
Entries 86
Mean −270.9
Std Dev 0

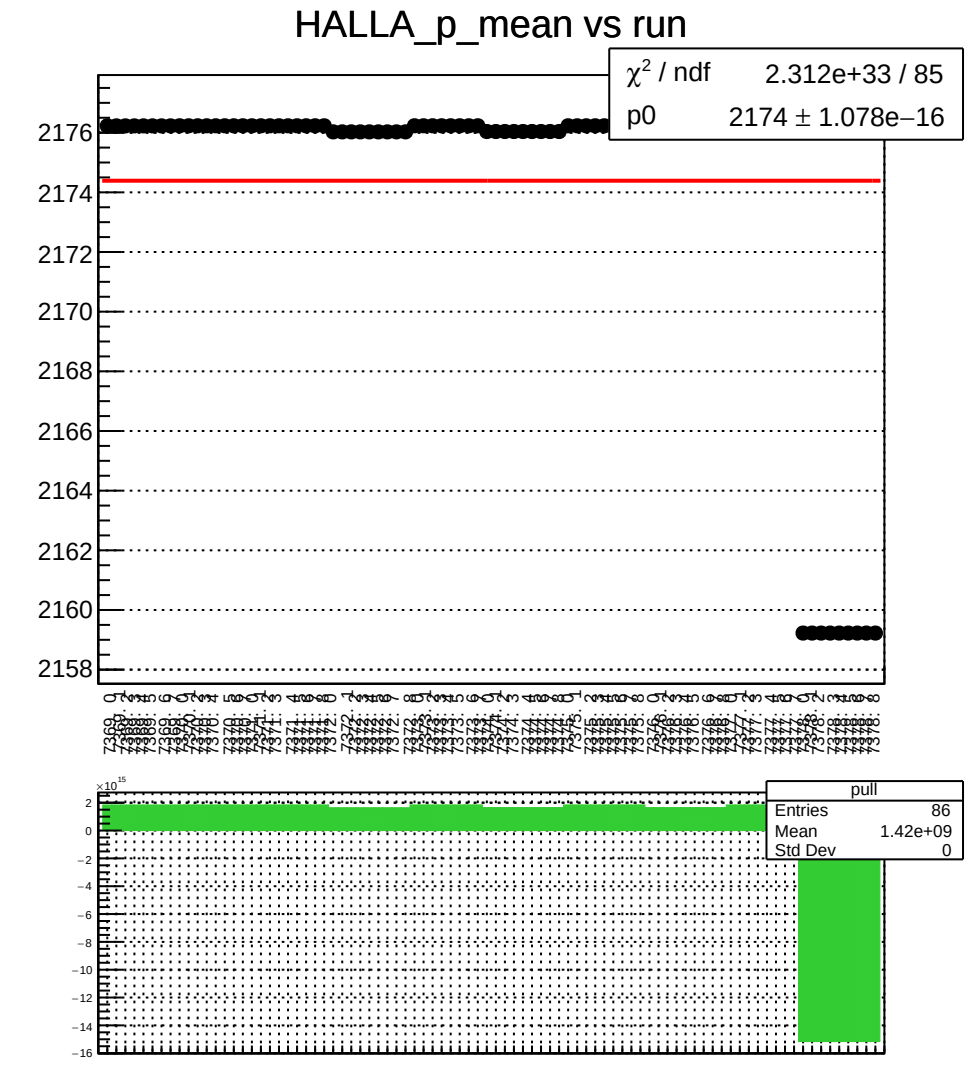

pull1D
Entries 86
Mean −0.01228
Std Dev 0.917

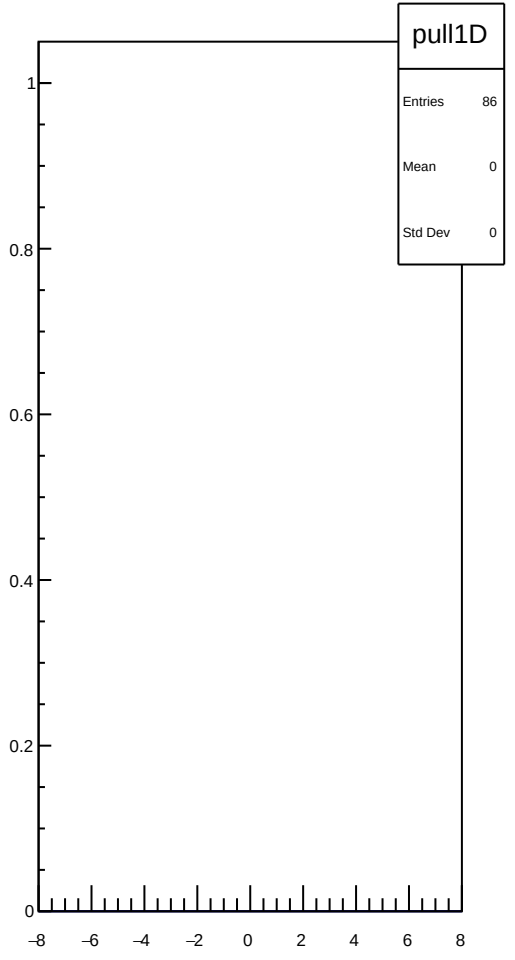

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.45 / 85
p0 0.009439 ± 0.008893
pull
Entries 86
Mean 606.3
Std Dev 0

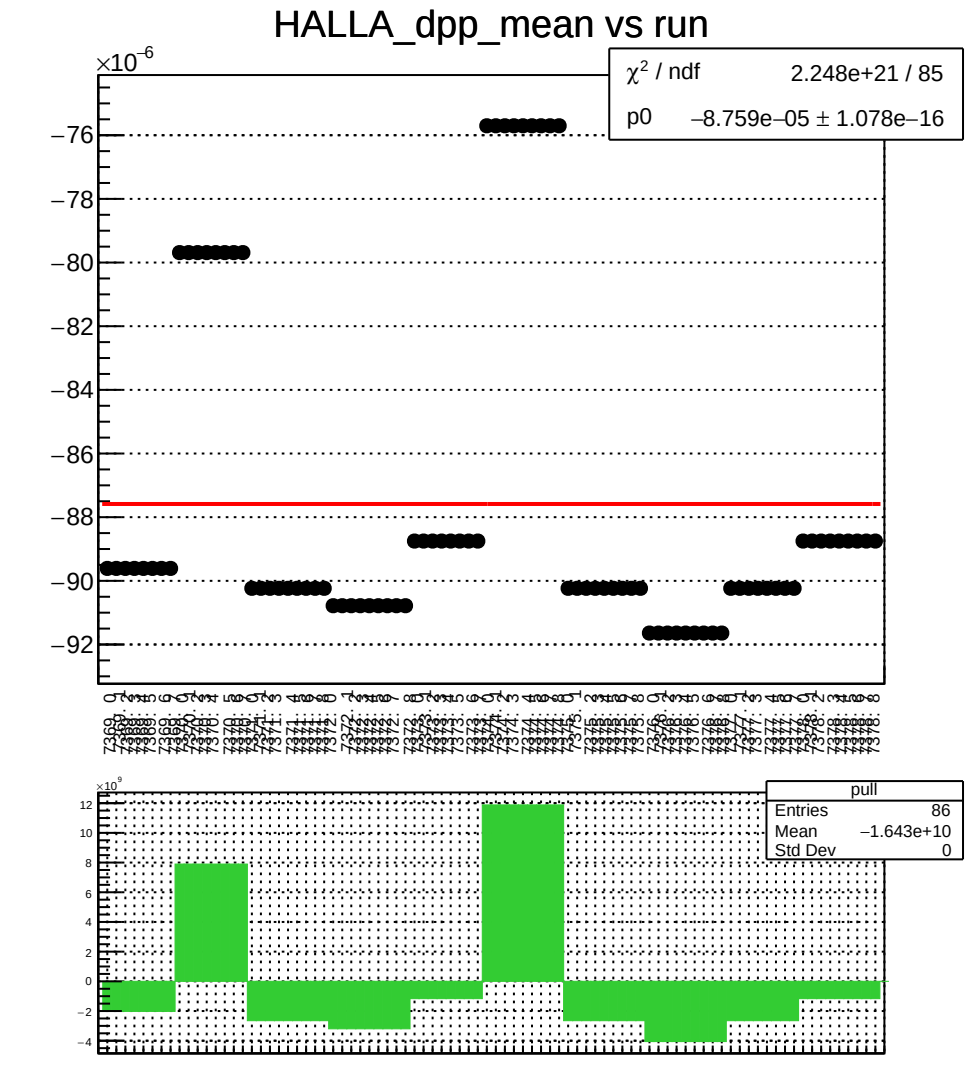

pull1D
Entries 86
Mean 0.002691
Std Dev 0.949

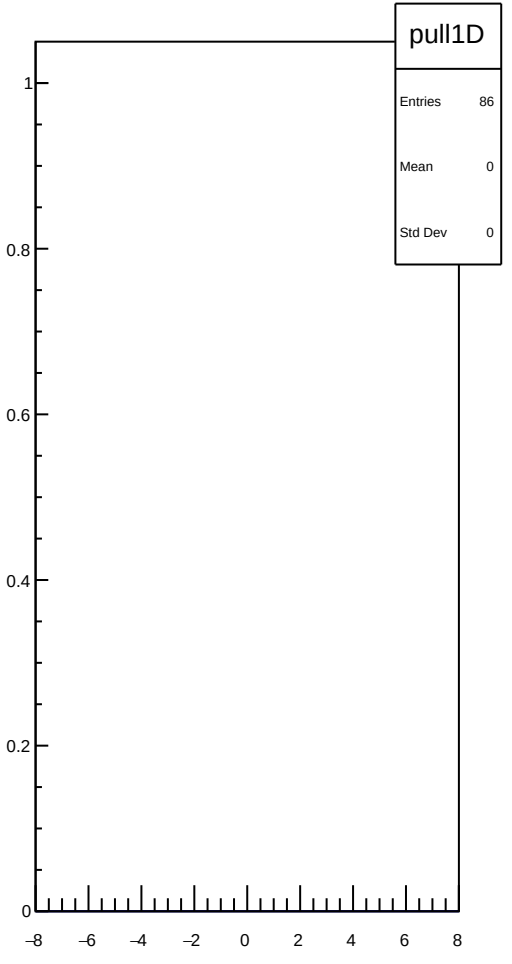

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 83.91 / 85
p0 −0.0005269 ± 0.0003991
pull
Entries 86
Mean 25.58
Std Dev 0

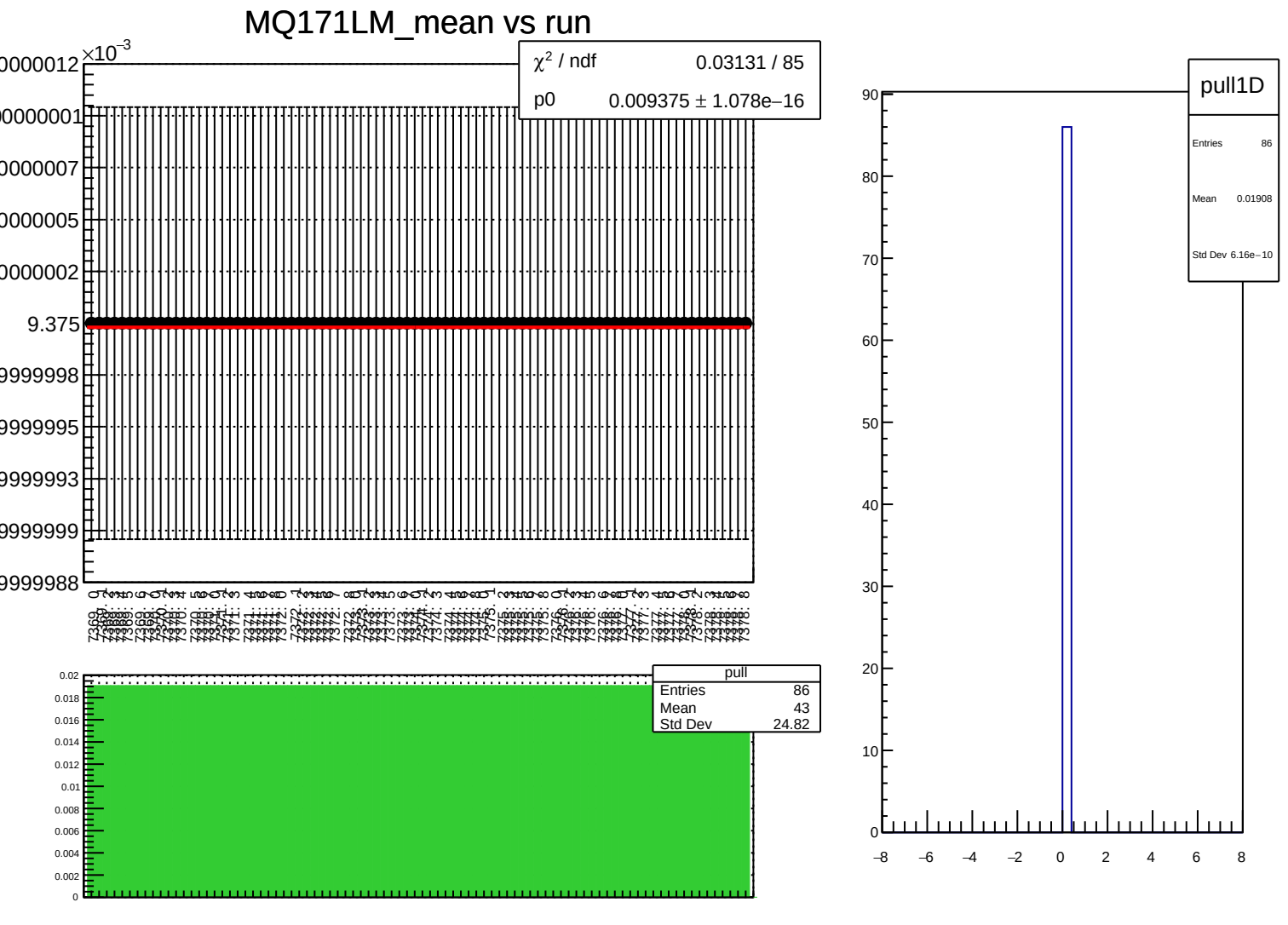

pull1D
Entries 86
Mean −0.005174
Std Dev 0.9877

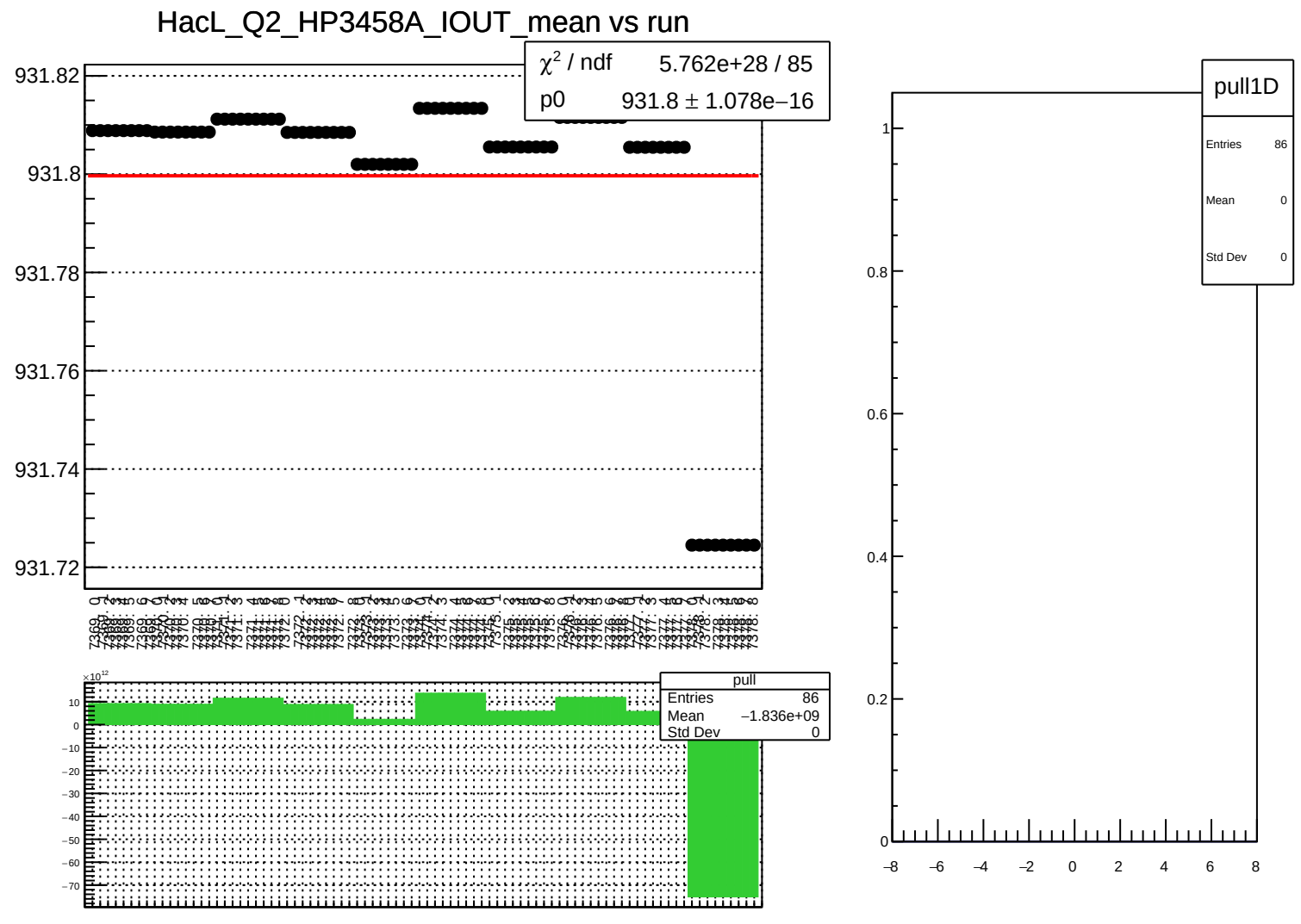

HALLA_p_mean vs run
χ² / ndf 2.312e+33 / 85
p0 2174 ± 1.078e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 86
Mean 1.42e+09
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

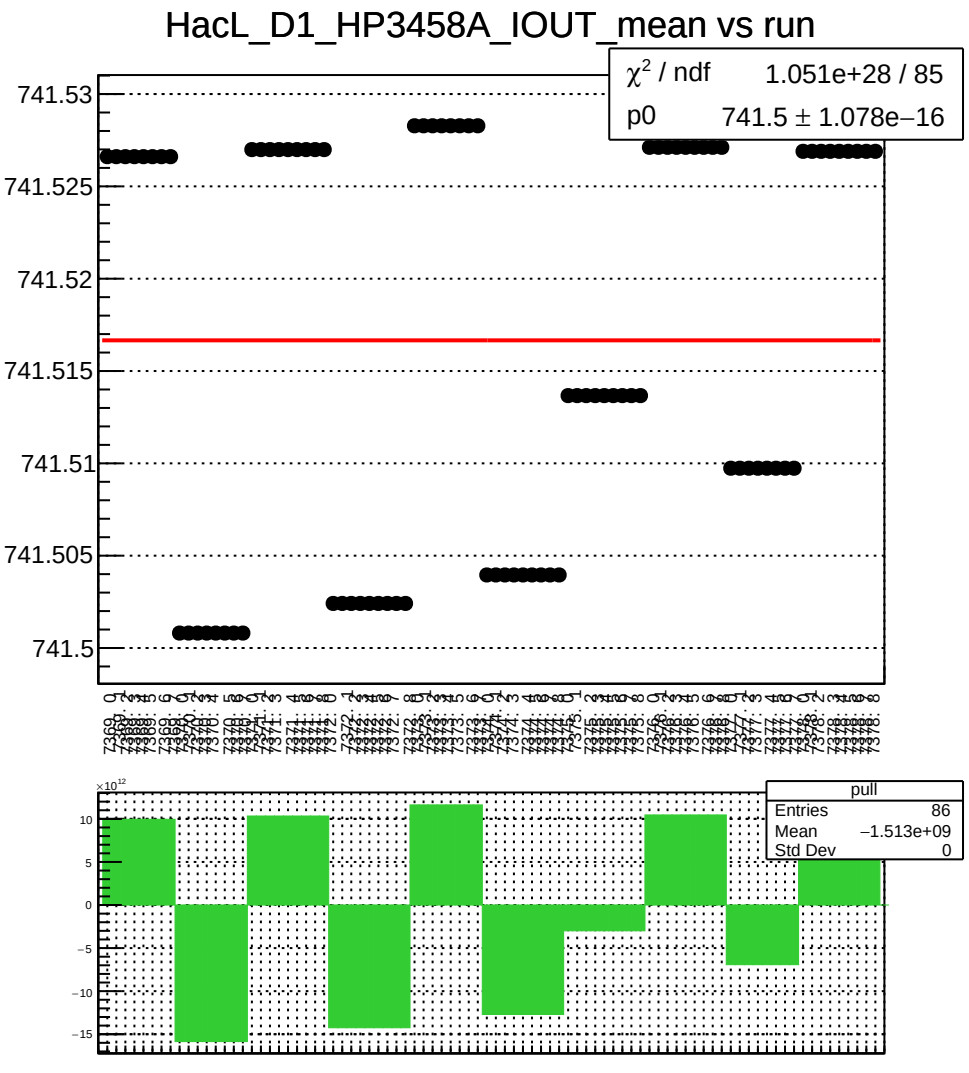

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

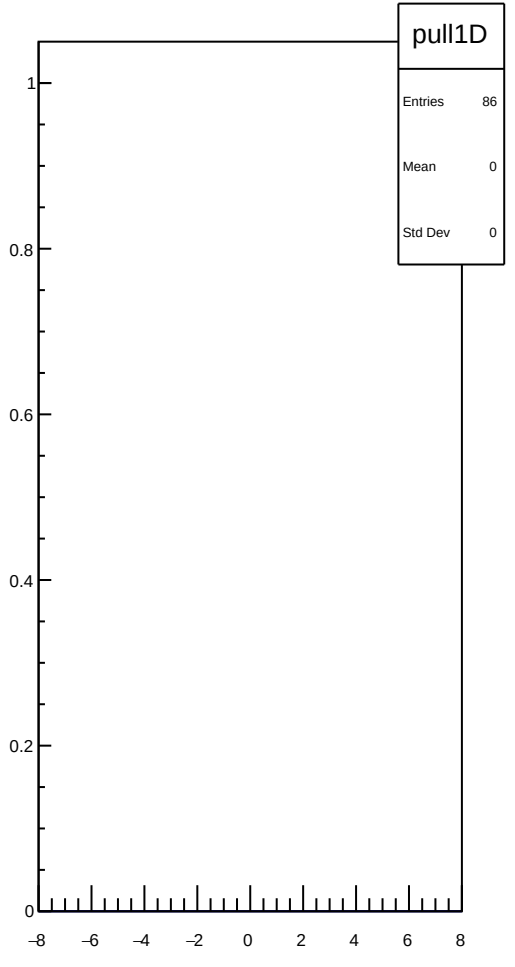

HALLA_dpp_mean vs run
×10⁻⁶
χ² / ndf 2.248e+21 / 85
p0 −8.759e−05 ± 1.078e−16
−76
−78
−80
−82
−84
−86
−88
−90
−92
×10⁹
pull
Entries 86
Mean −1.643e+10
Std Dev 0
12
10
8
6
4
2
0
−2
−4

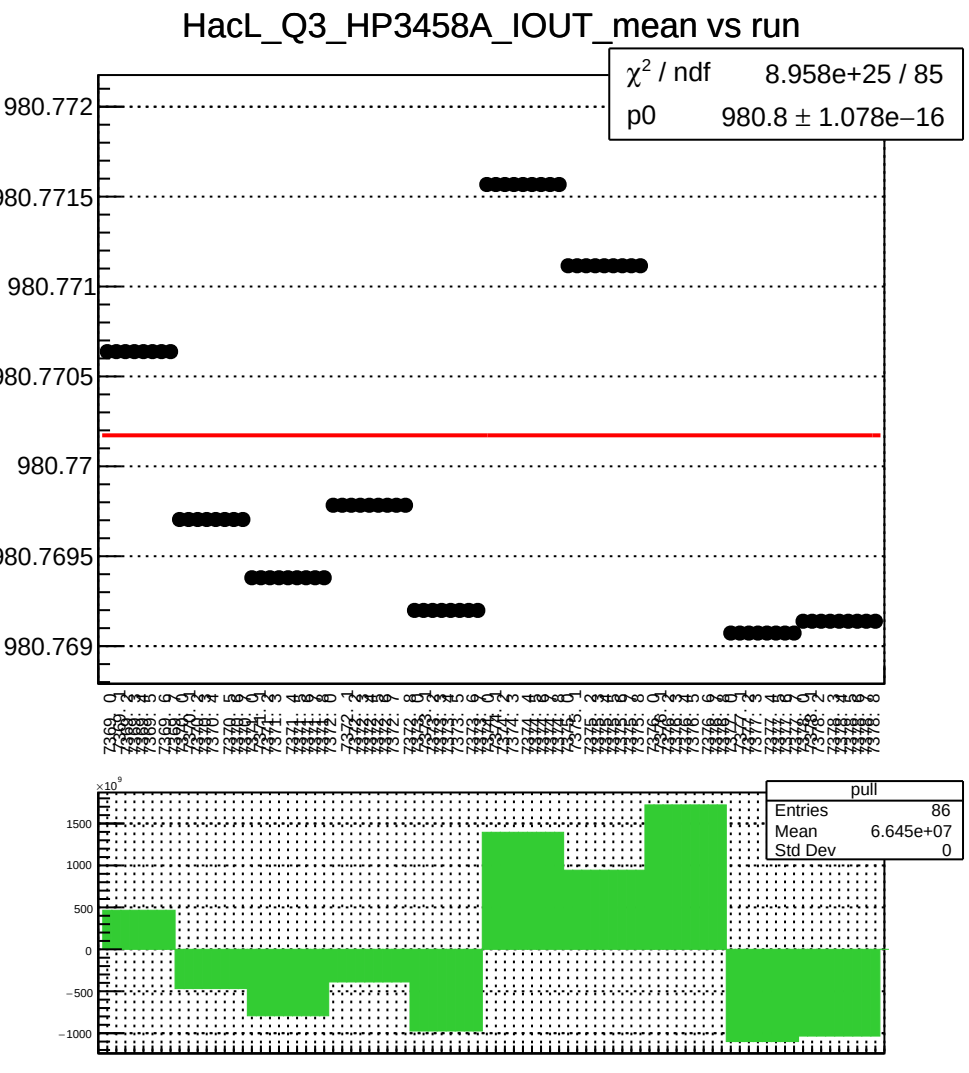

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

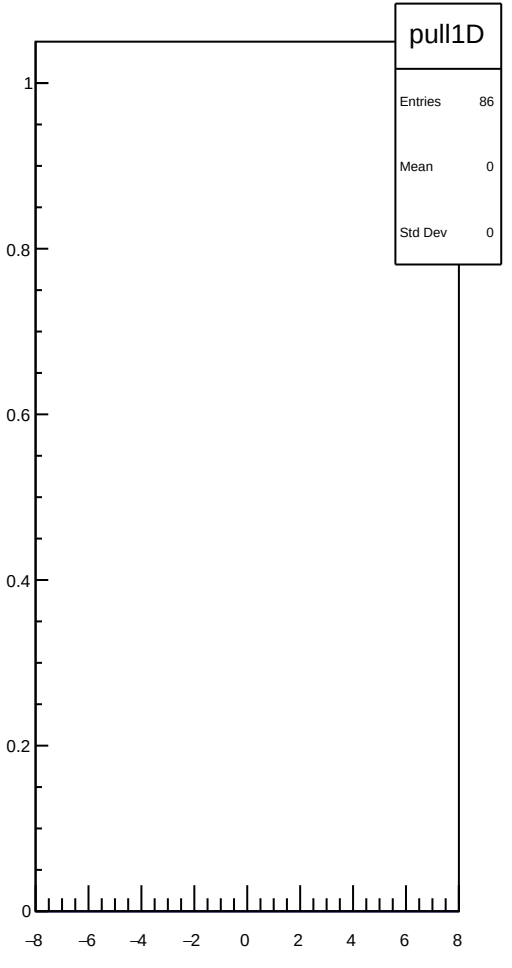

MQ171LM_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
9.375
pull
Entries 86
Mean 43
Std Dev 24.82
pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

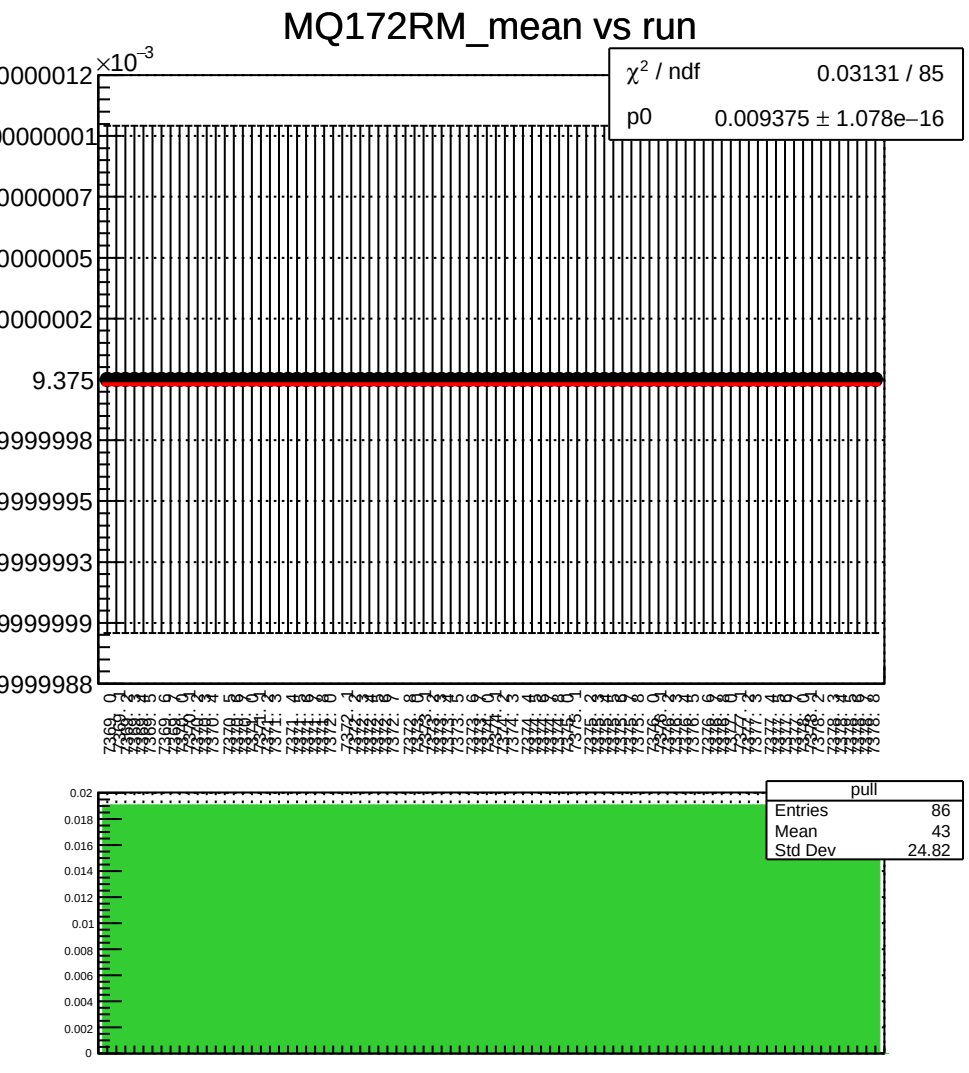

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.762e+28 / 85
p0 931.8 ± 1.078e−16
931.82
931.8
931.78
931.76
931.74
931.72
pull
Entries 86
Mean −1.836e+09
Std Dev 0
pull1D
Entries 86
Mean 0
Std Dev 0

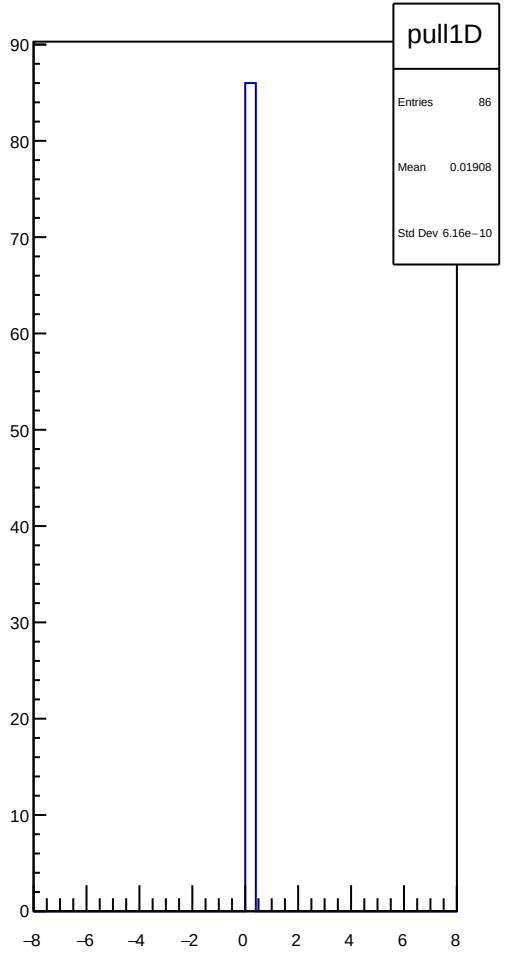

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.051e+28 / 85
p0 741.5 ± 1.078e−16
741.53
741.525
741.52
741.515
741.51
741.505
741.5
pull
Entries 86
Mean −1.513e+09
Std Dev 0
×10¹²
10
5
0
−5
−10
−15

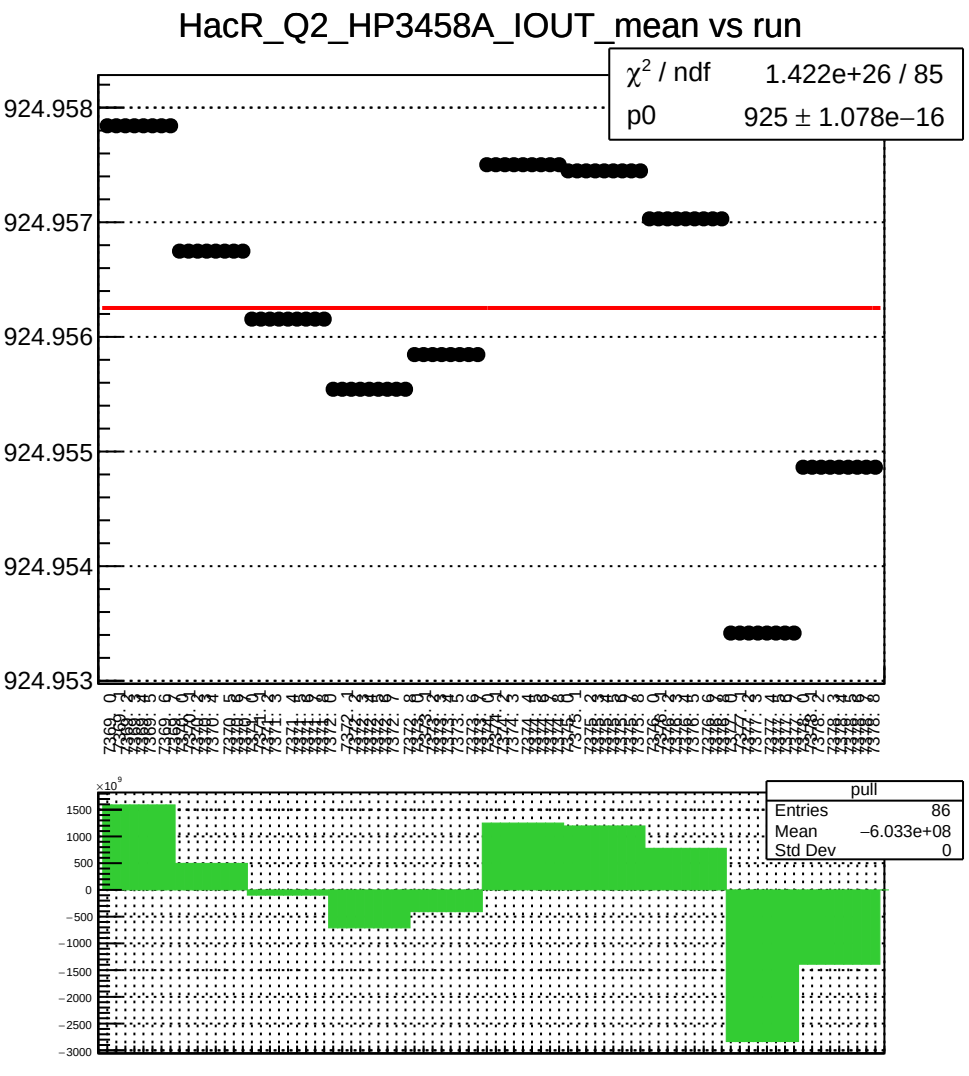

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

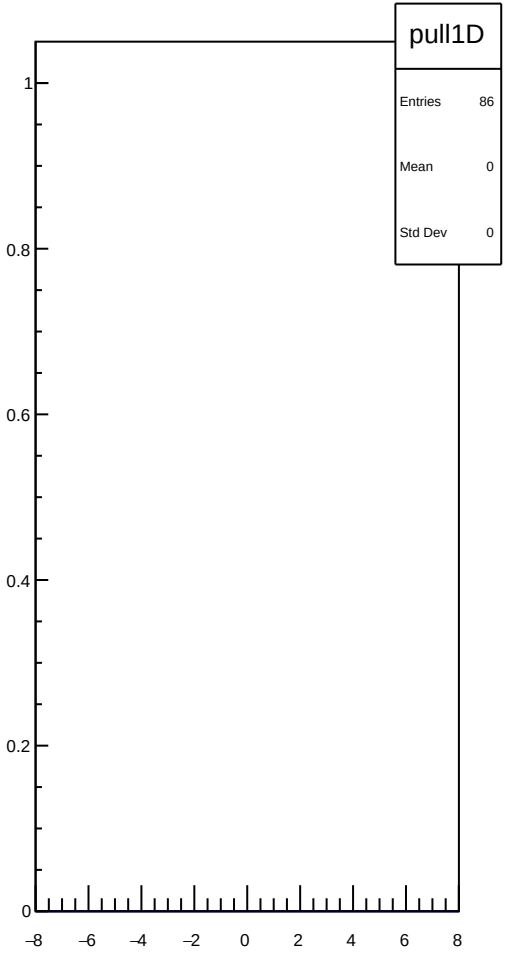

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 8.958e+25 / 85
p0 980.8 ± 1.078e−16
980.772
980.7715
980.771
980.7705
980.77
980.7695
980.769
pull
Entries 86
Mean 6.645e+07
Std Dev 0
×10⁹
1500
1000
500
0
−500
−1000

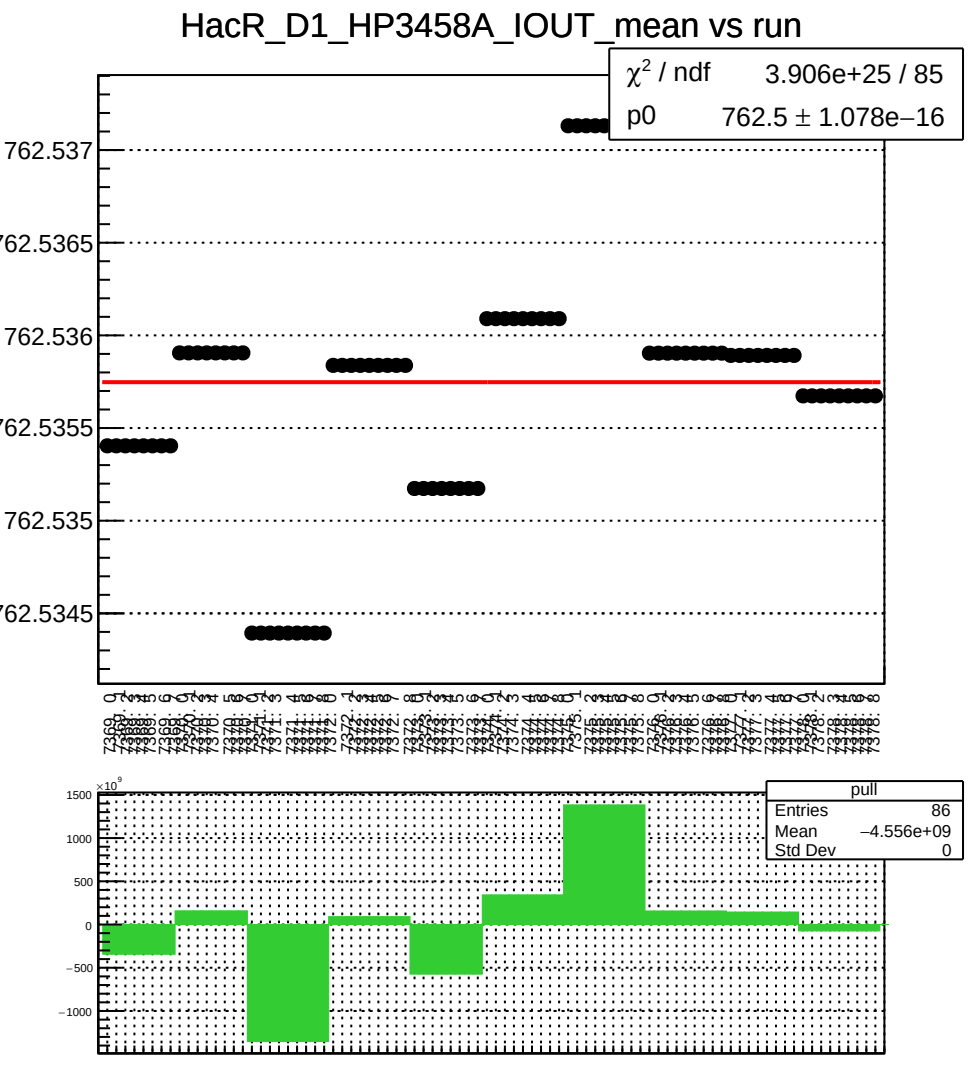

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

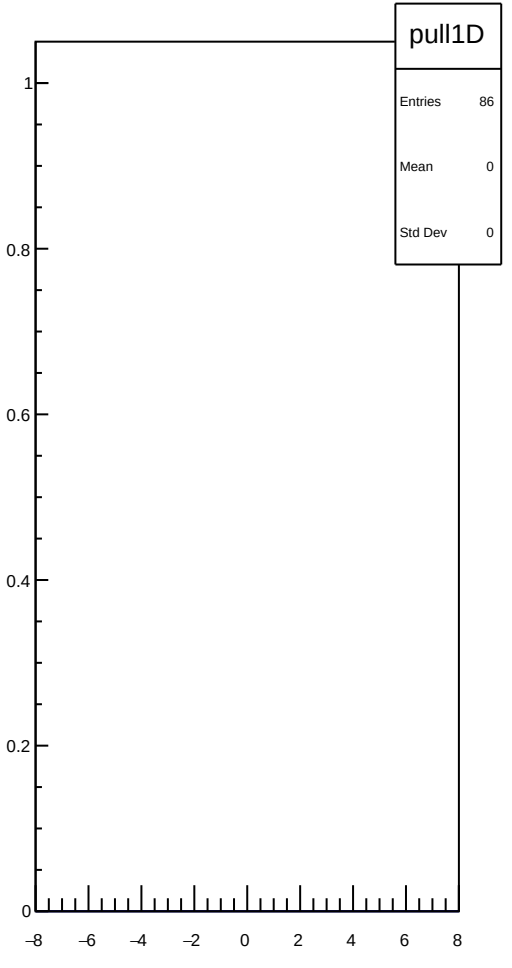

MQ172RM_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
9.375
pull
Entries 86
Mean 43
Std Dev 24.82

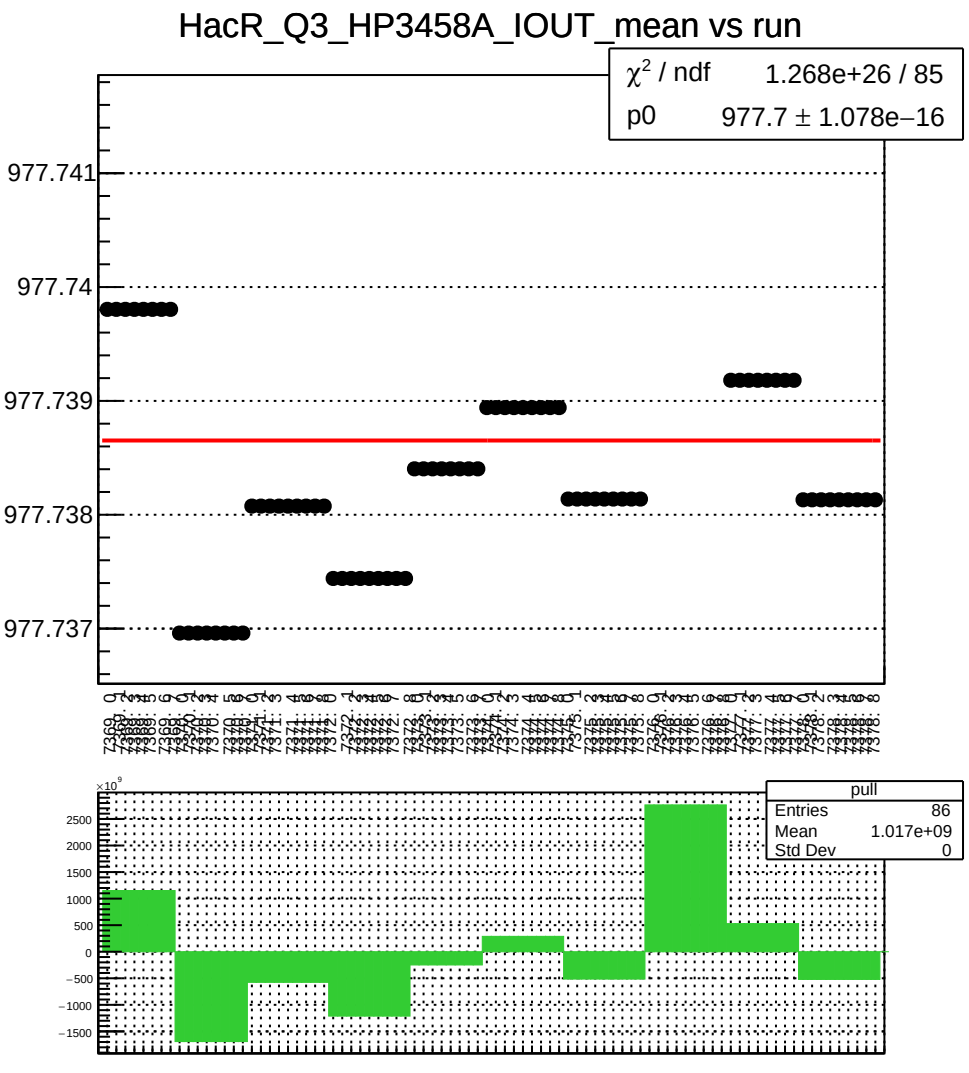

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

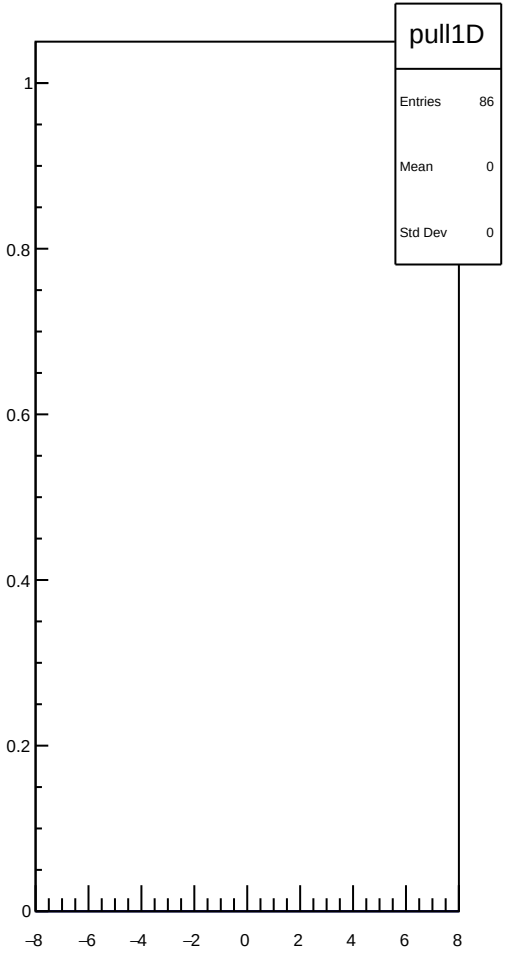

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.422e+26 / 85
p0 925 ± 1.078e−16
924.958
924.957
924.956
924.955
924.954
924.953
pull
Entries 86
Mean −6.033e+08
Std Dev 0
×10⁹
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

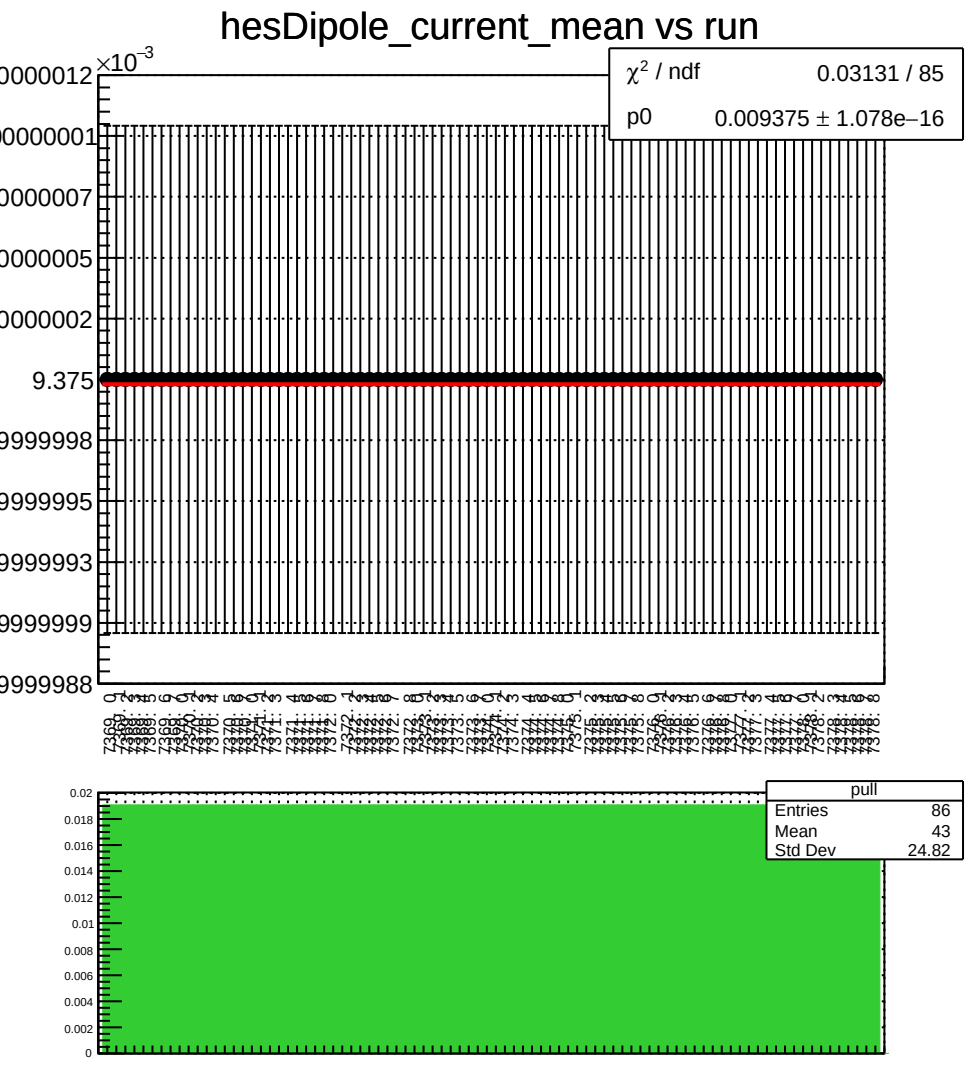

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

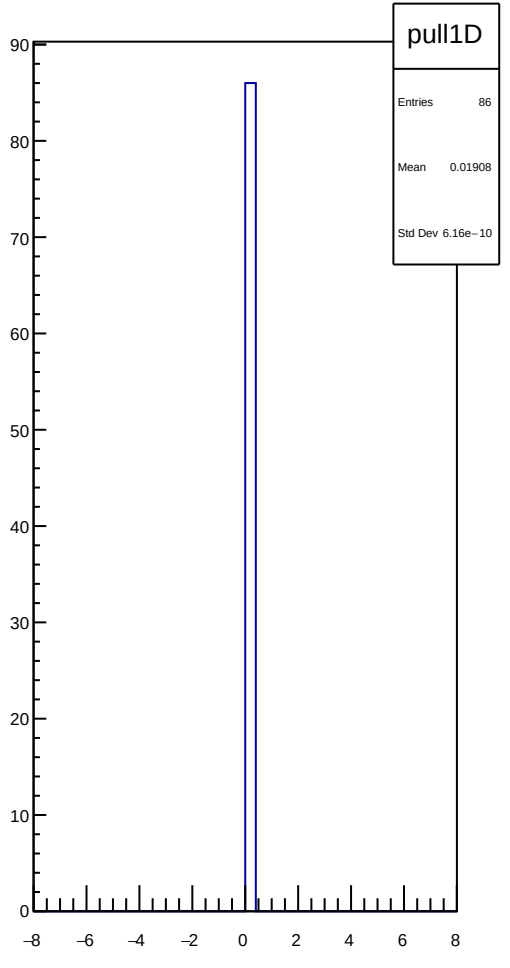

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.906e+25 / 85
p0 762.5 ± 1.078e−16
762.537
762.5365
762.536
762.5355
762.535
762.5345
pull
Entries 86
Mean −4.556e+09
Std Dev 0
×10⁹
1500
1000
500
0
−500
−1000

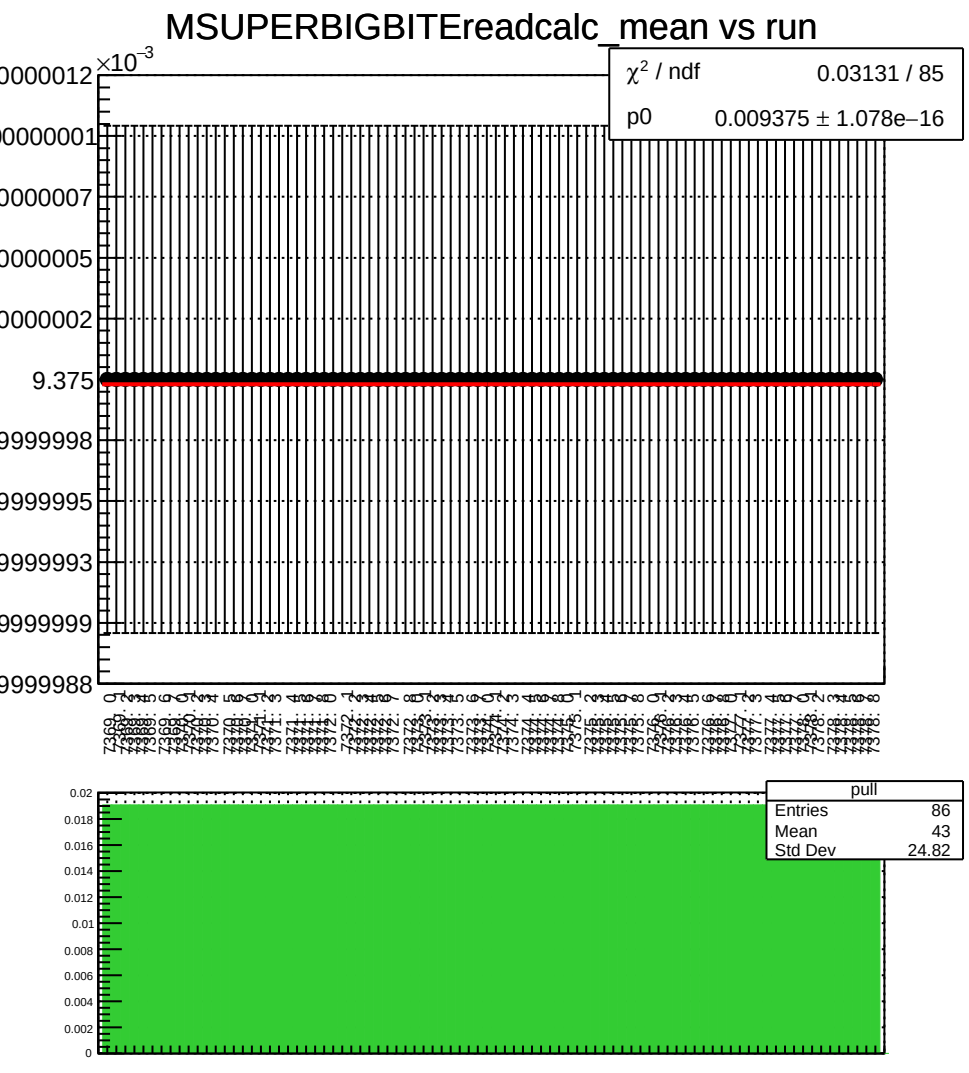

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

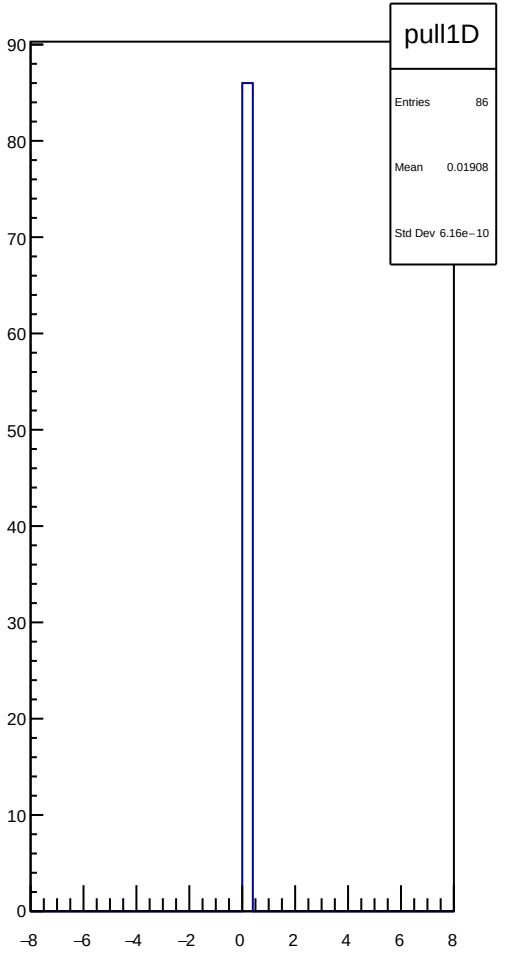

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.268e+26 / 85
p0 977.7 ± 1.078e−16
977.741
977.74
977.739
977.738
977.737
pull
Entries 86
Mean 1.017e+09
Std Dev 0
×10⁹
2500
2000
1500
1000
500
0
−500
−1000
−1500

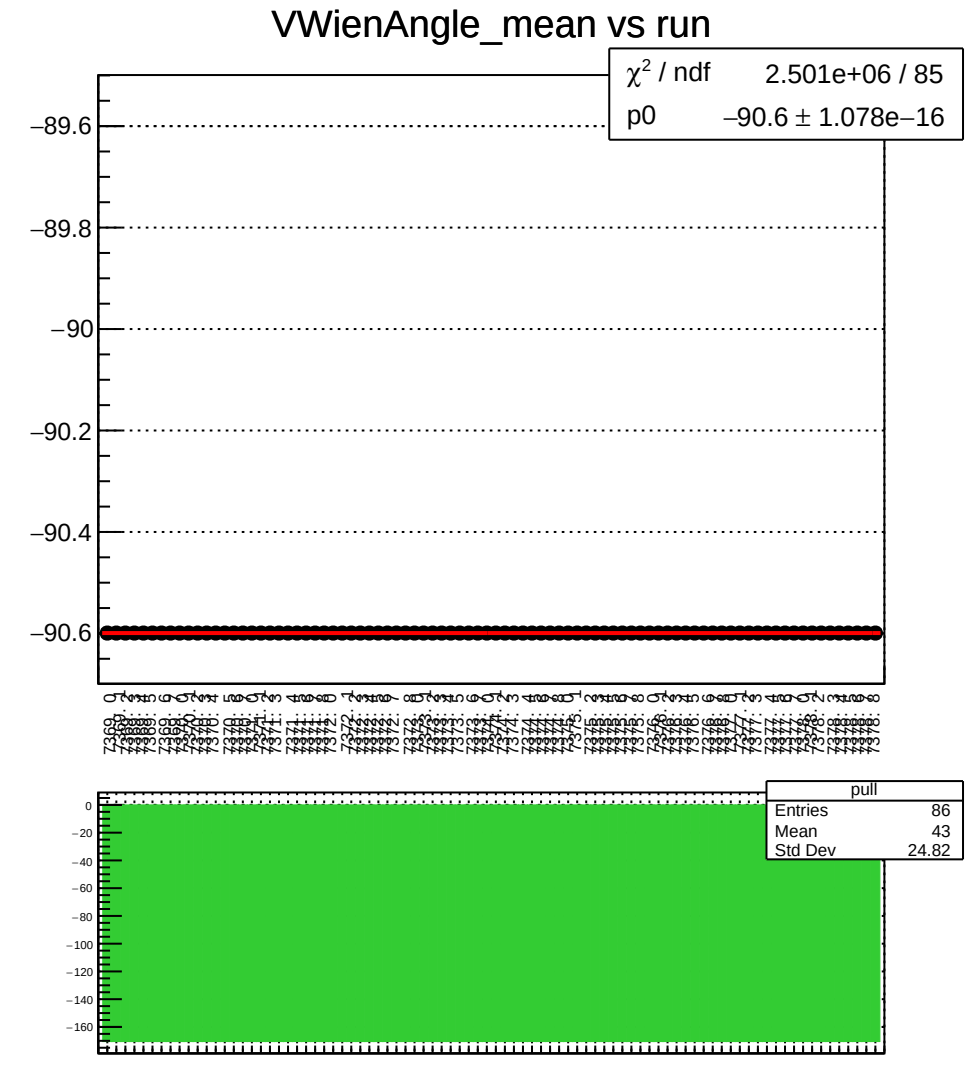

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

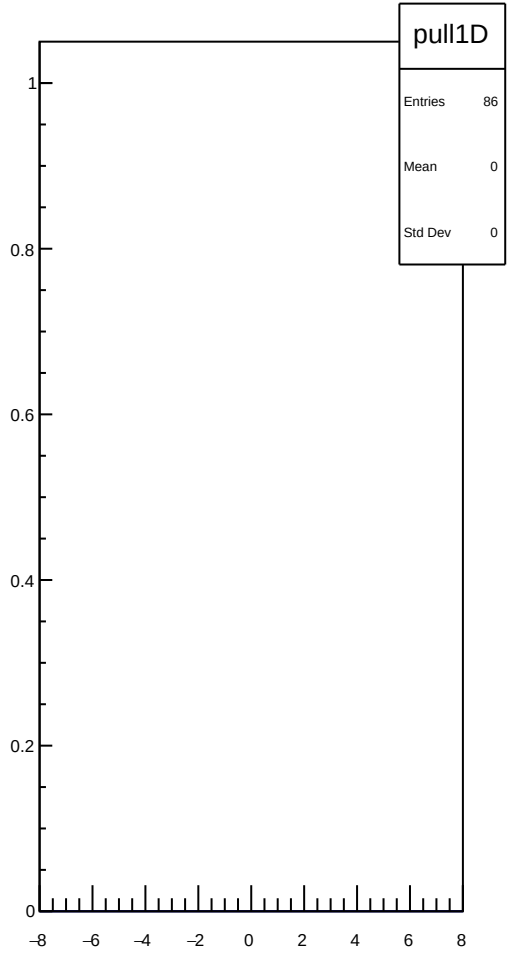

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
9.375
pull
Entries 86
Mean 43
Std Dev 24.82

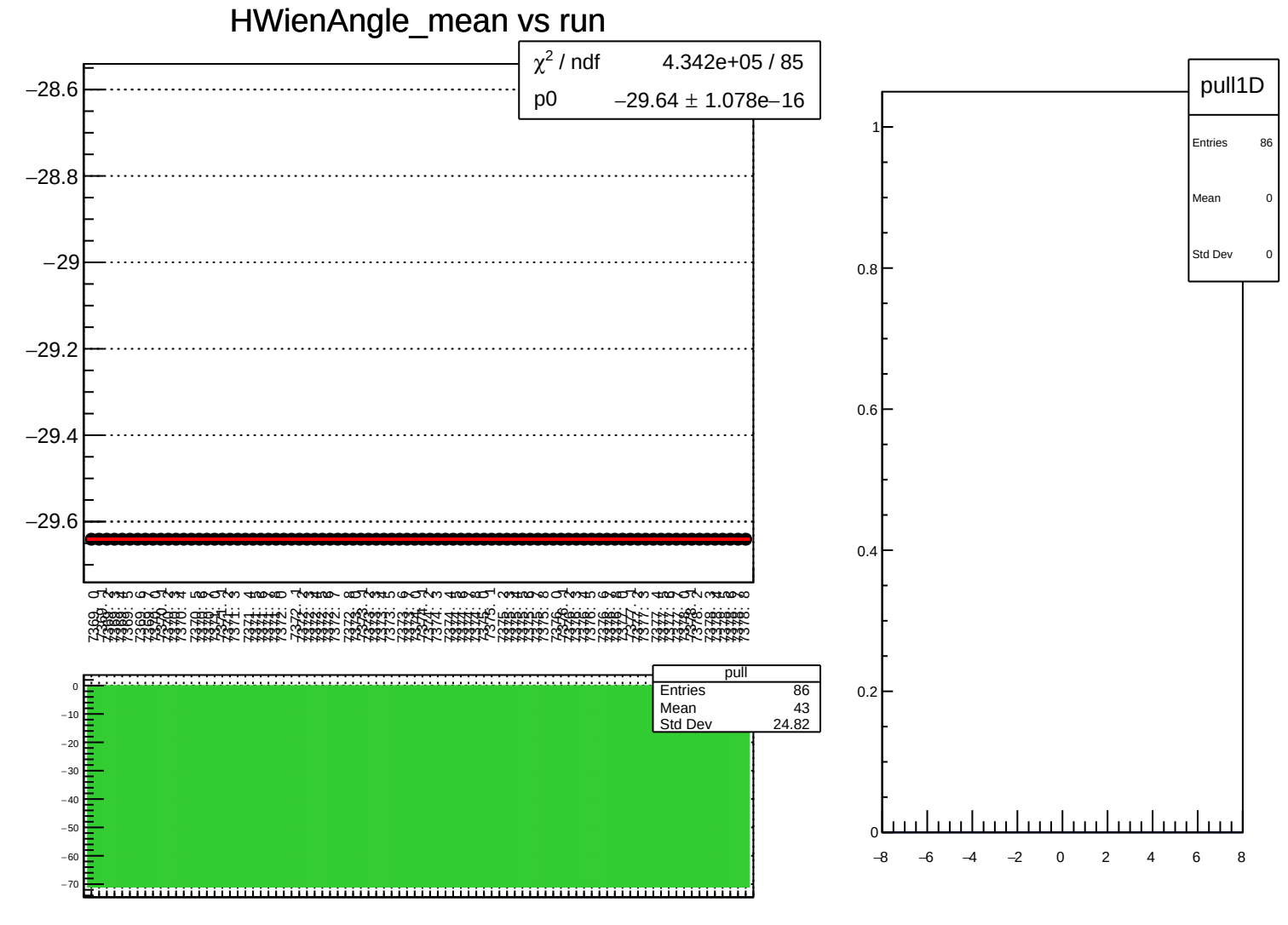

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

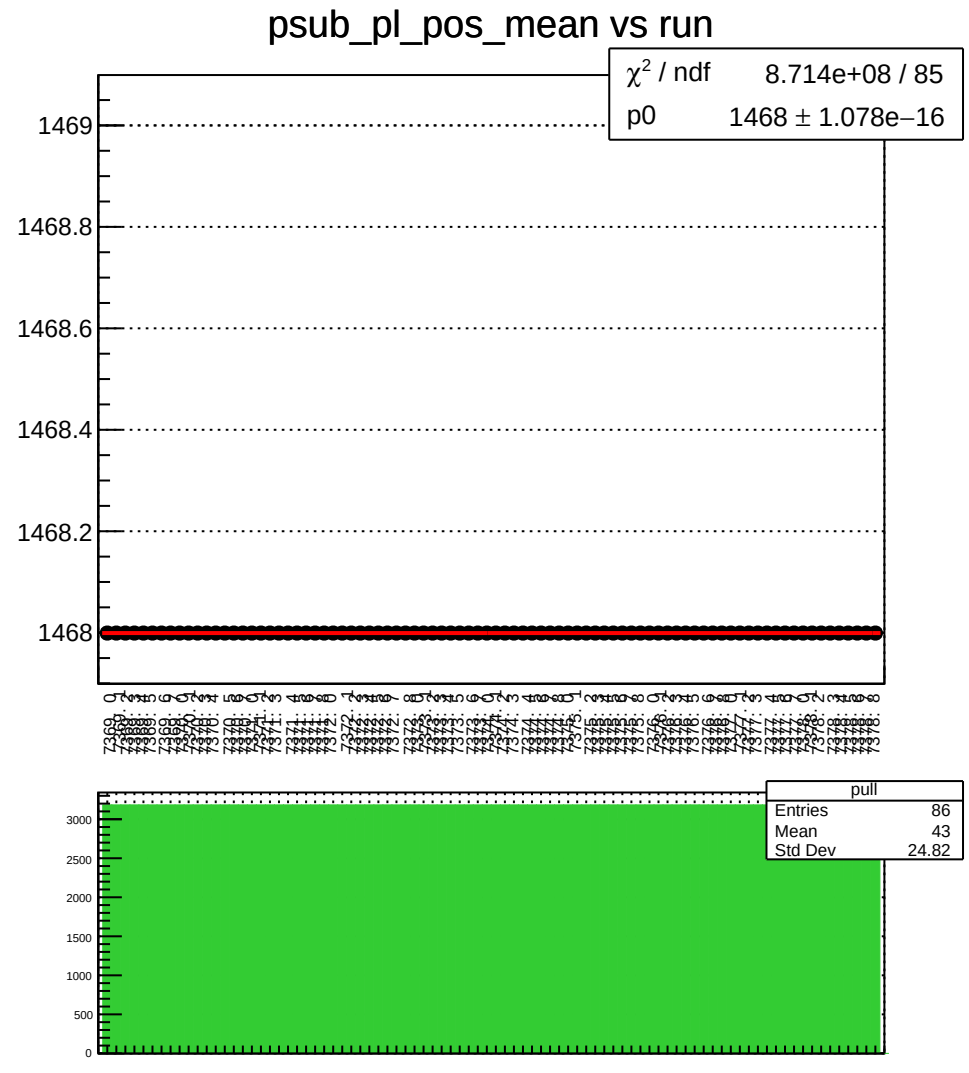

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82

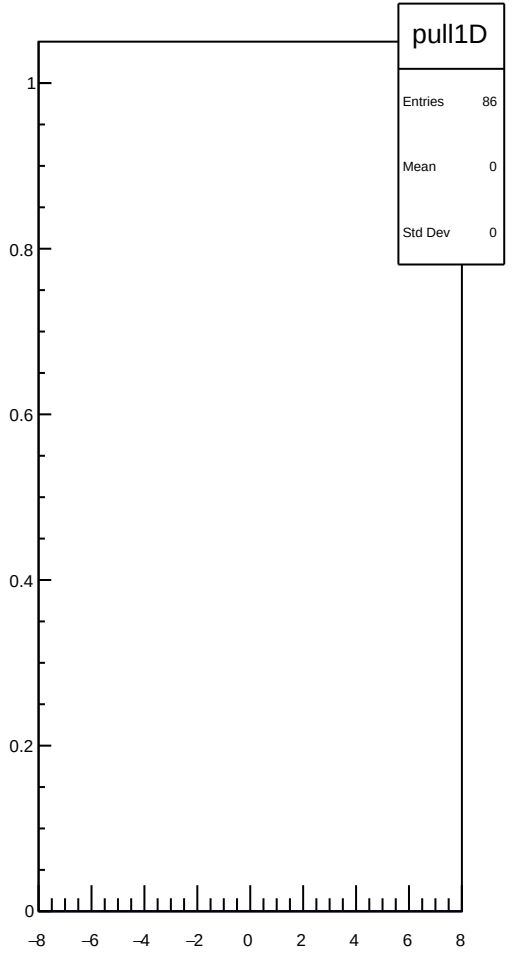

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

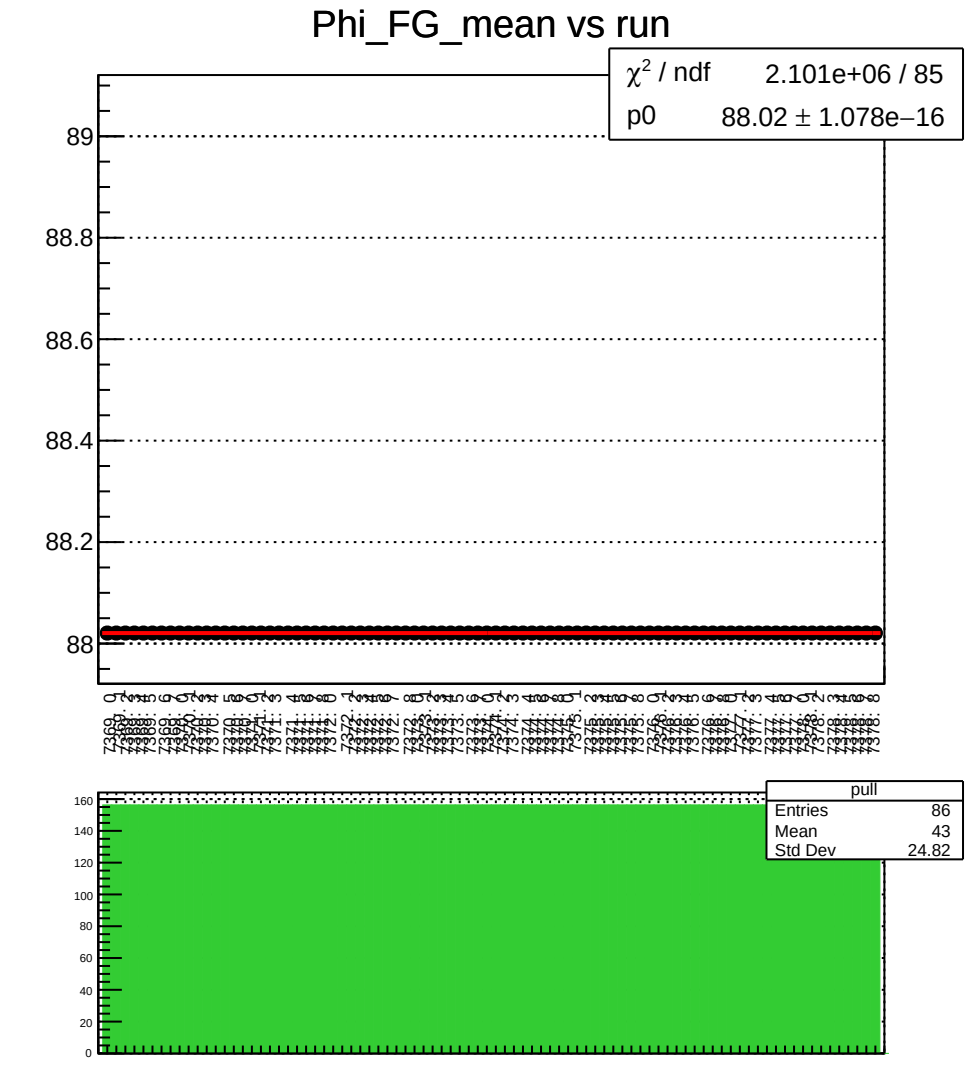

VWienAngle_mean vs run
χ² / ndf 2.501e+06 / 85
p0 −90.6 ± 1.078e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 86
Mean 43
Std Dev 24.82
0
−20
−40
−60
−80
−100
−120
−140
−160

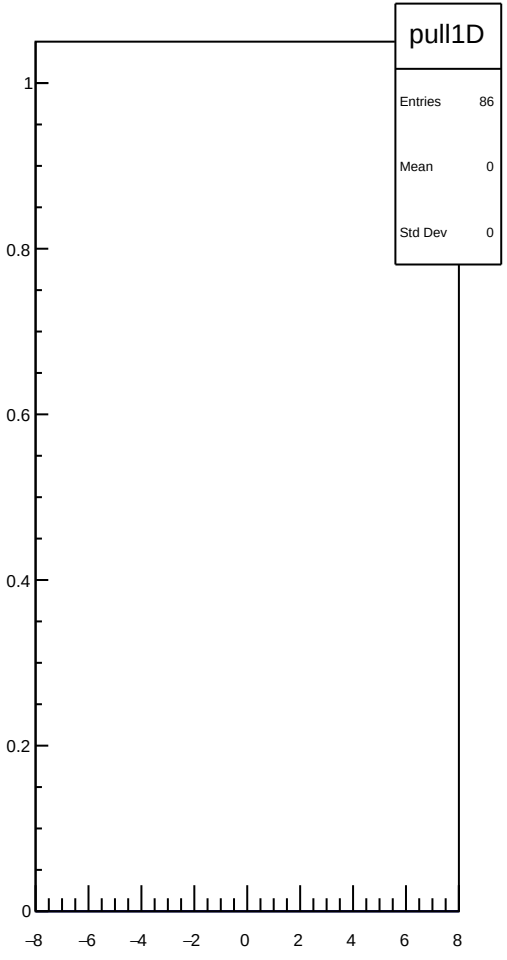

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

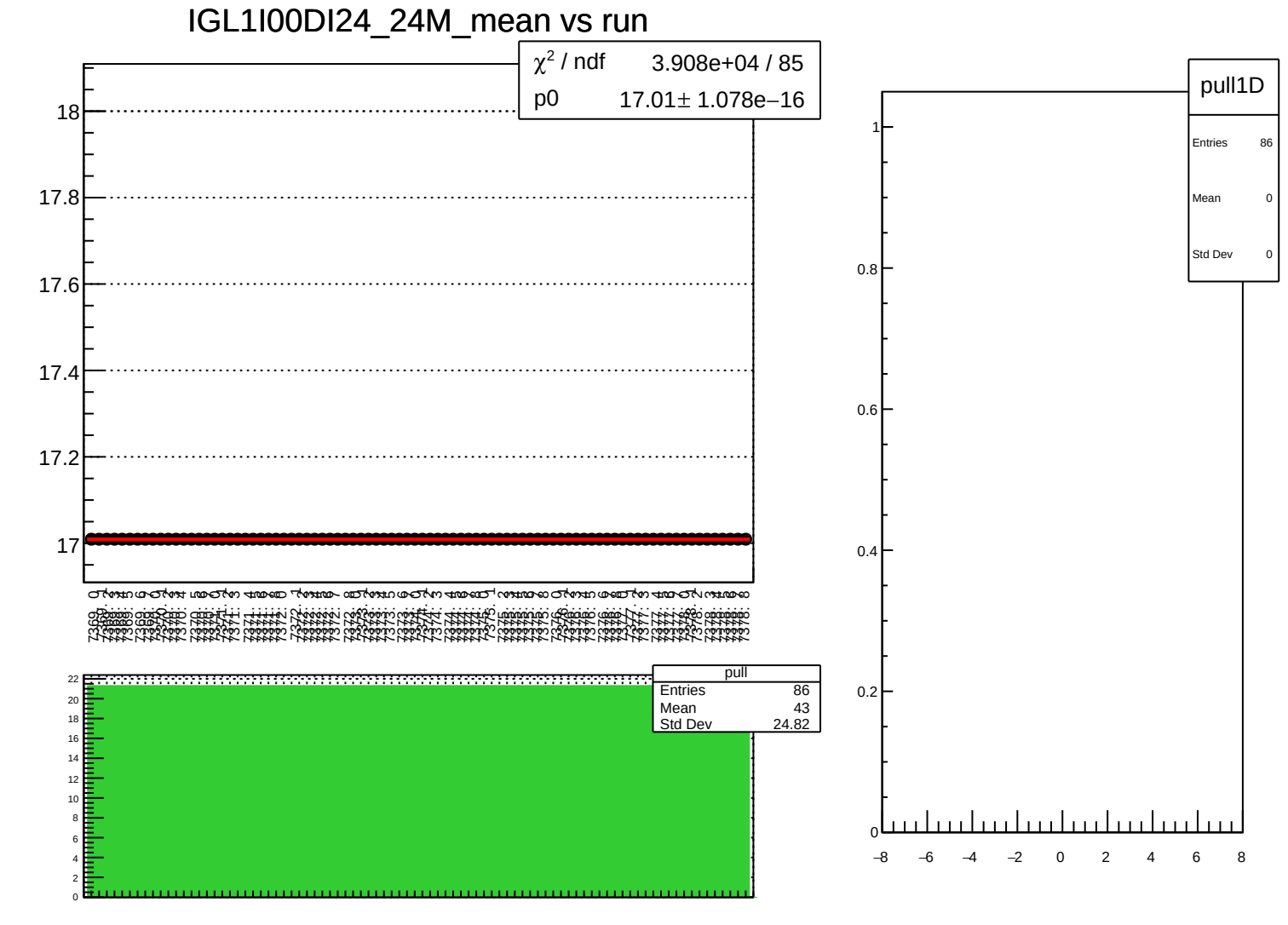

HWienAngle_mean vs run
χ² / ndf 4.342e+05 / 85
p0 −29.64 ± 1.078e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 86
Mean 43
Std Dev 24.82
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

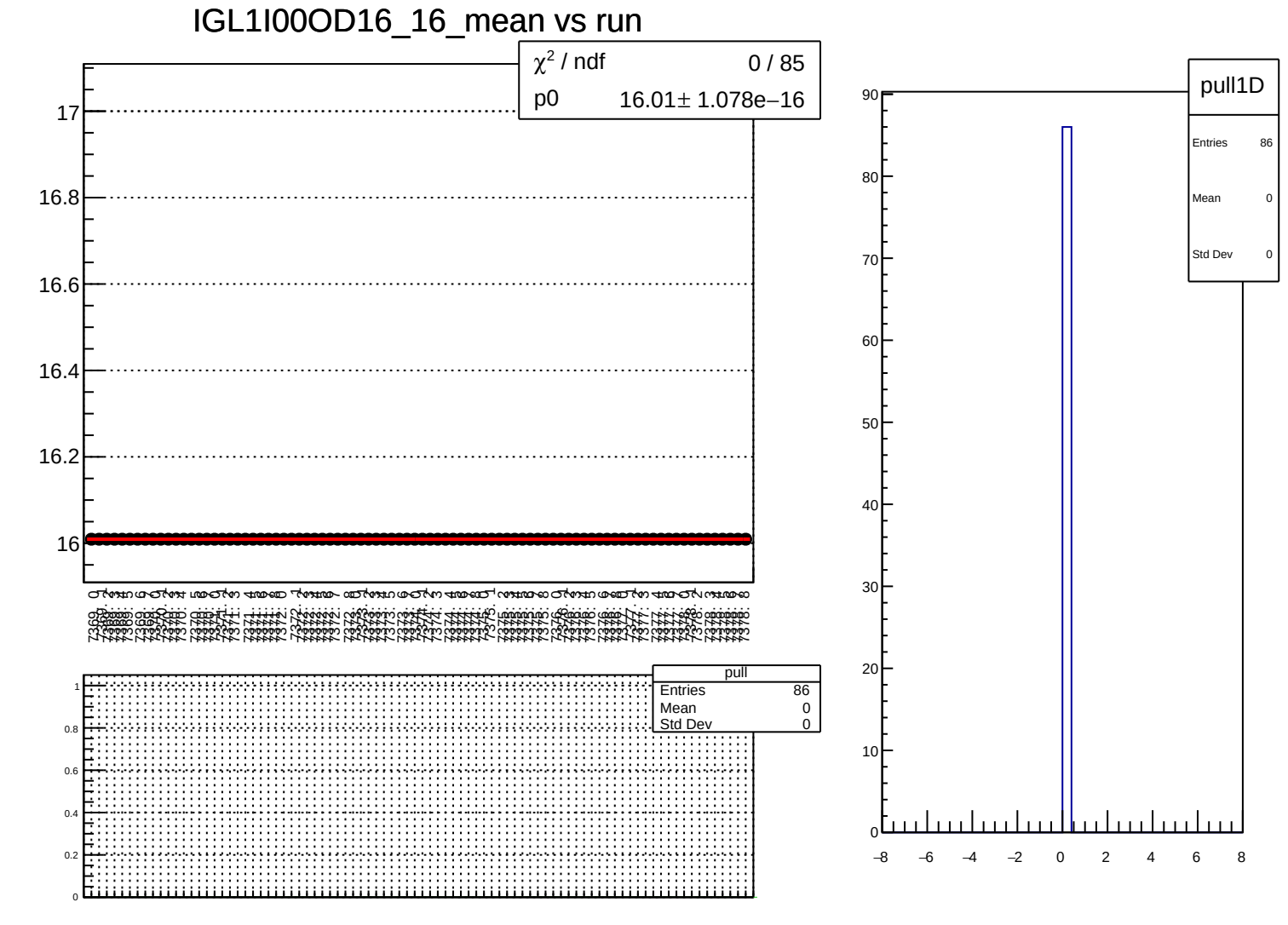

psub_pl_pos_mean vs run
χ² / ndf 8.714e+08 / 85
p0 1468 ± 1.078e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 86
Mean 43
Std Dev 24.82
3000
2500
2000
1500
1000
500
0

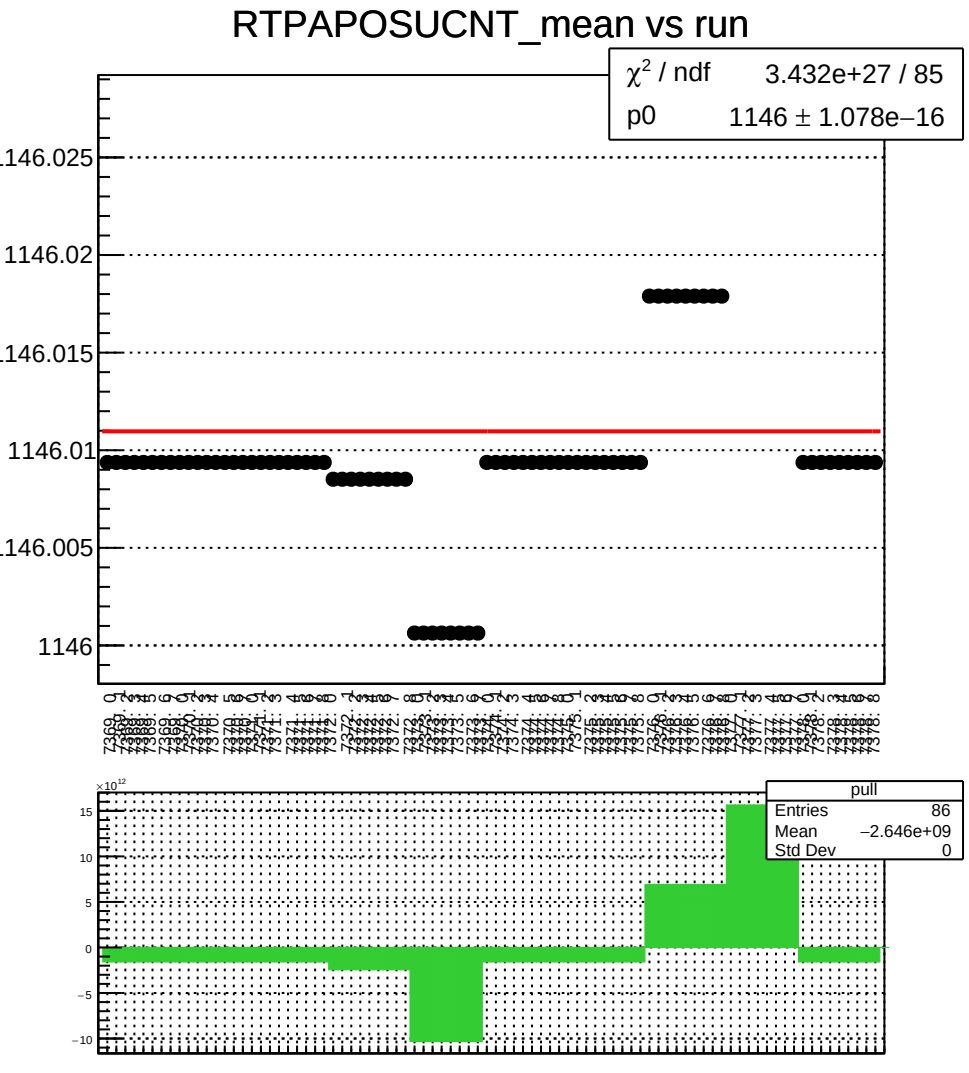

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

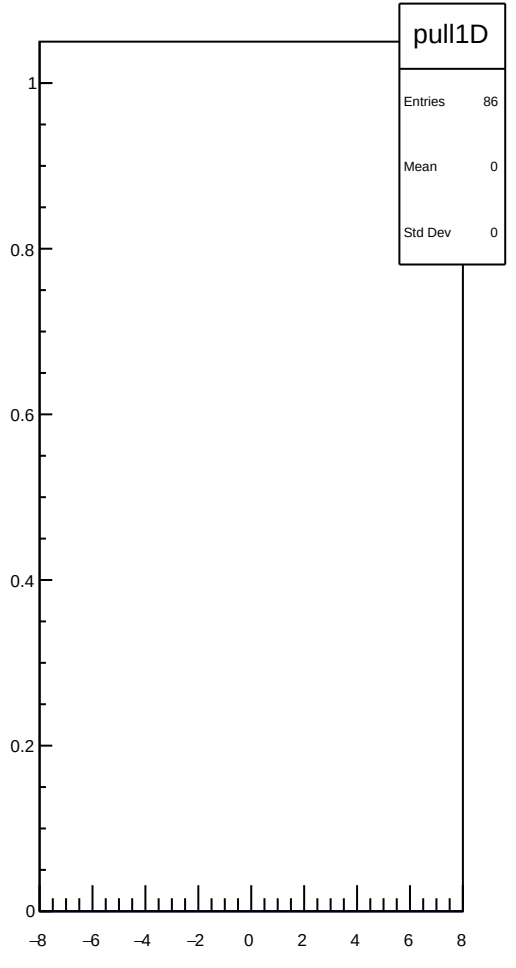

Phi_FG_mean vs run
χ² / ndf 2.101e+06 / 85
p0 88.02 ± 1.078e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 86
Mean 43
Std Dev 24.82
160
140
120
100
80
60
40
20
0

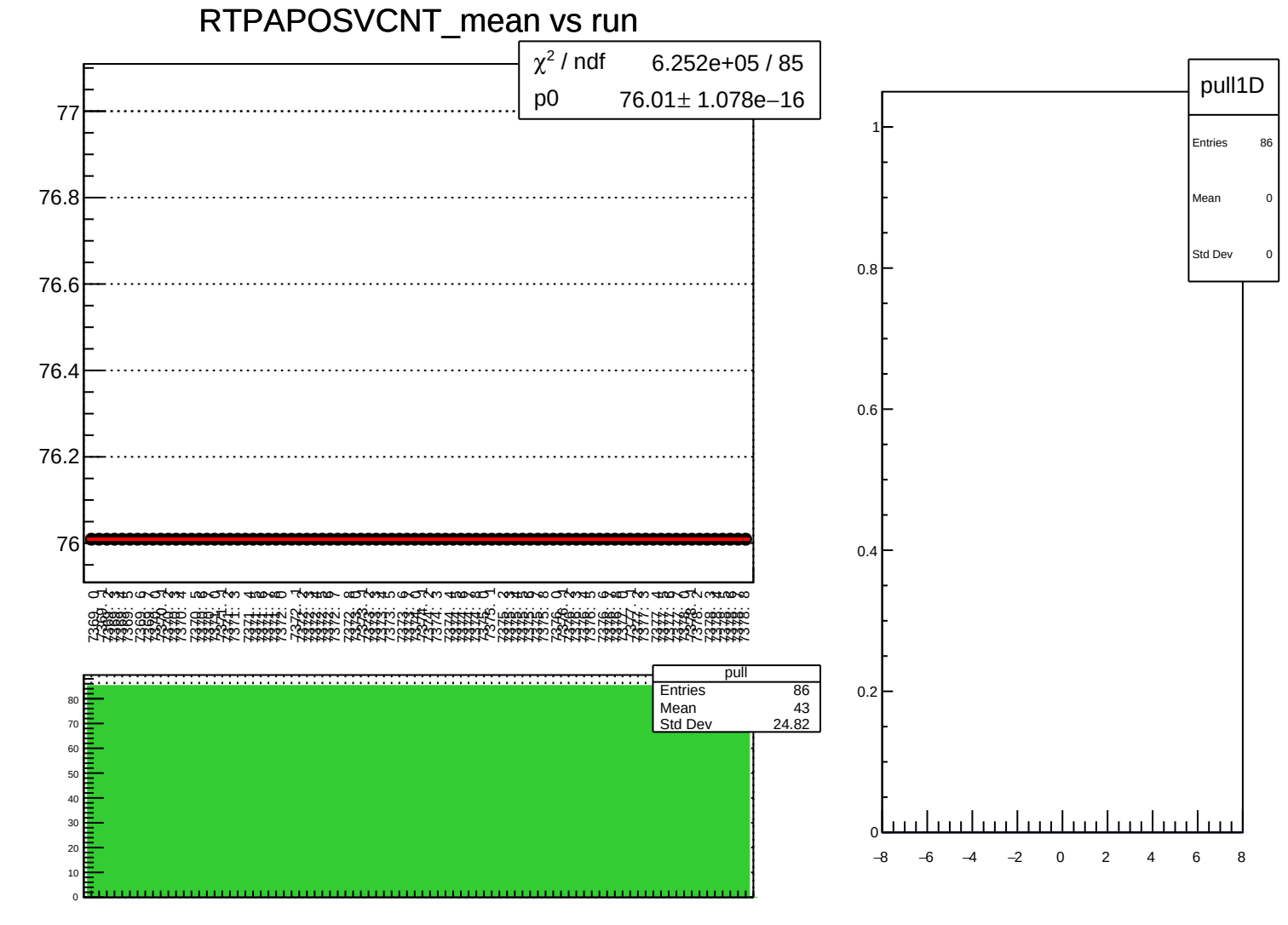

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

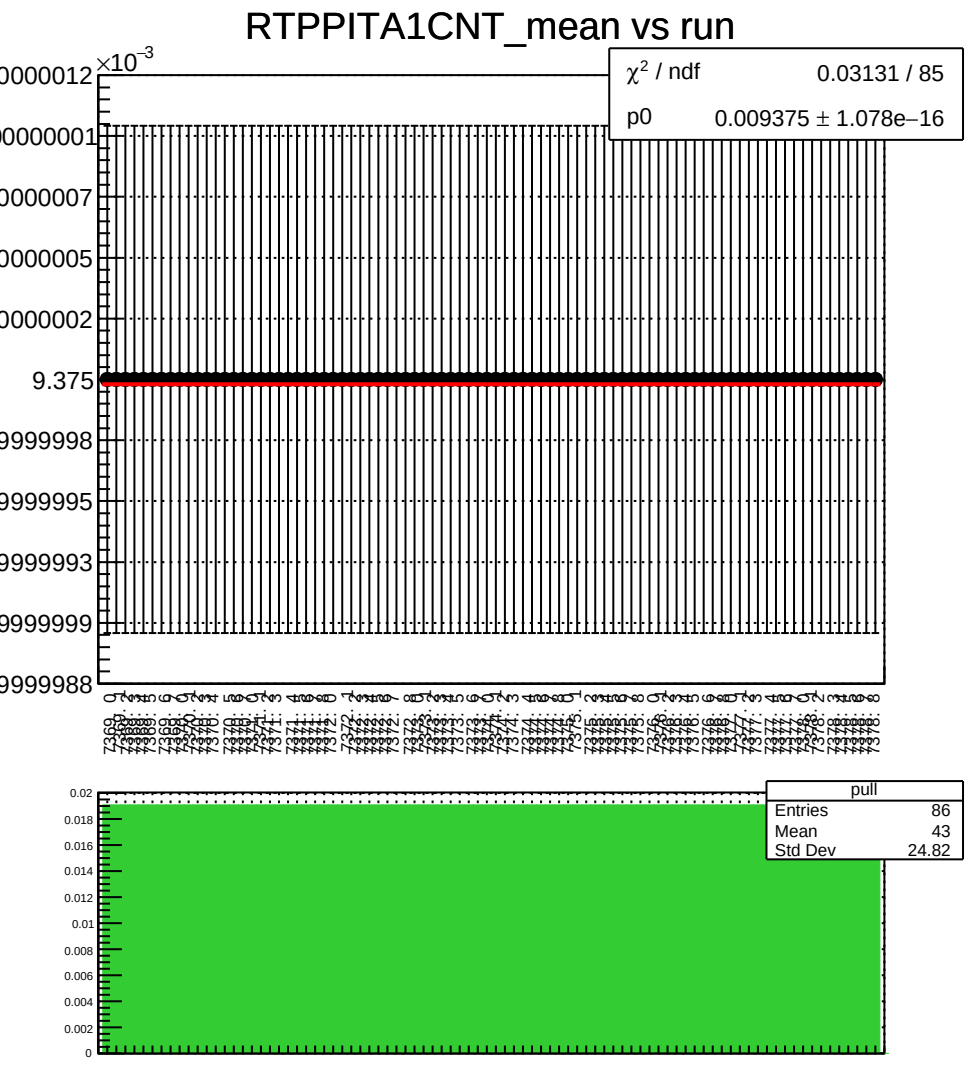

IGL1I00DI24_24M_mean vs run
χ² / ndf 3.908e+04 / 85
p0 17.01± 1.078e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 86
Mean 43
Std Dev 24.82
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

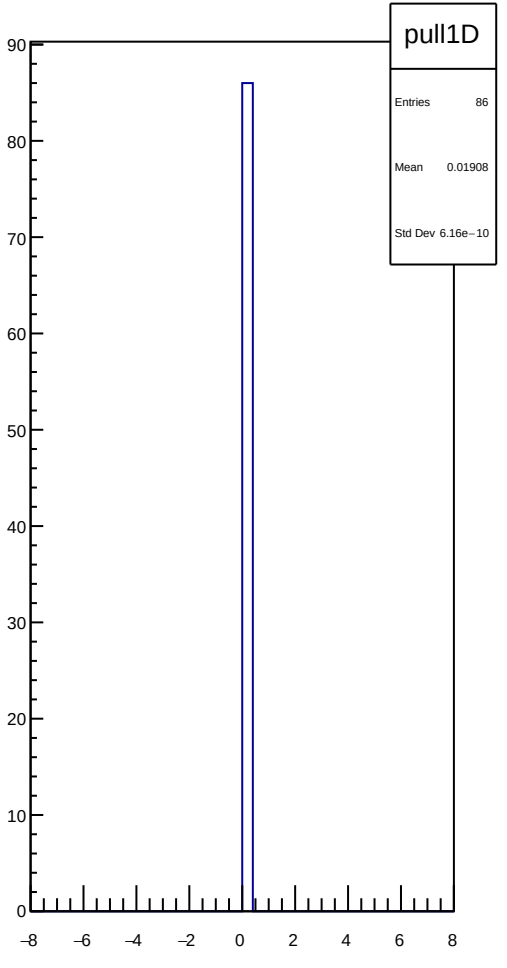

IGL1I00OD16_16_mean vs run
χ² / ndf 0 / 85
p0 16.01± 1.078e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 86
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

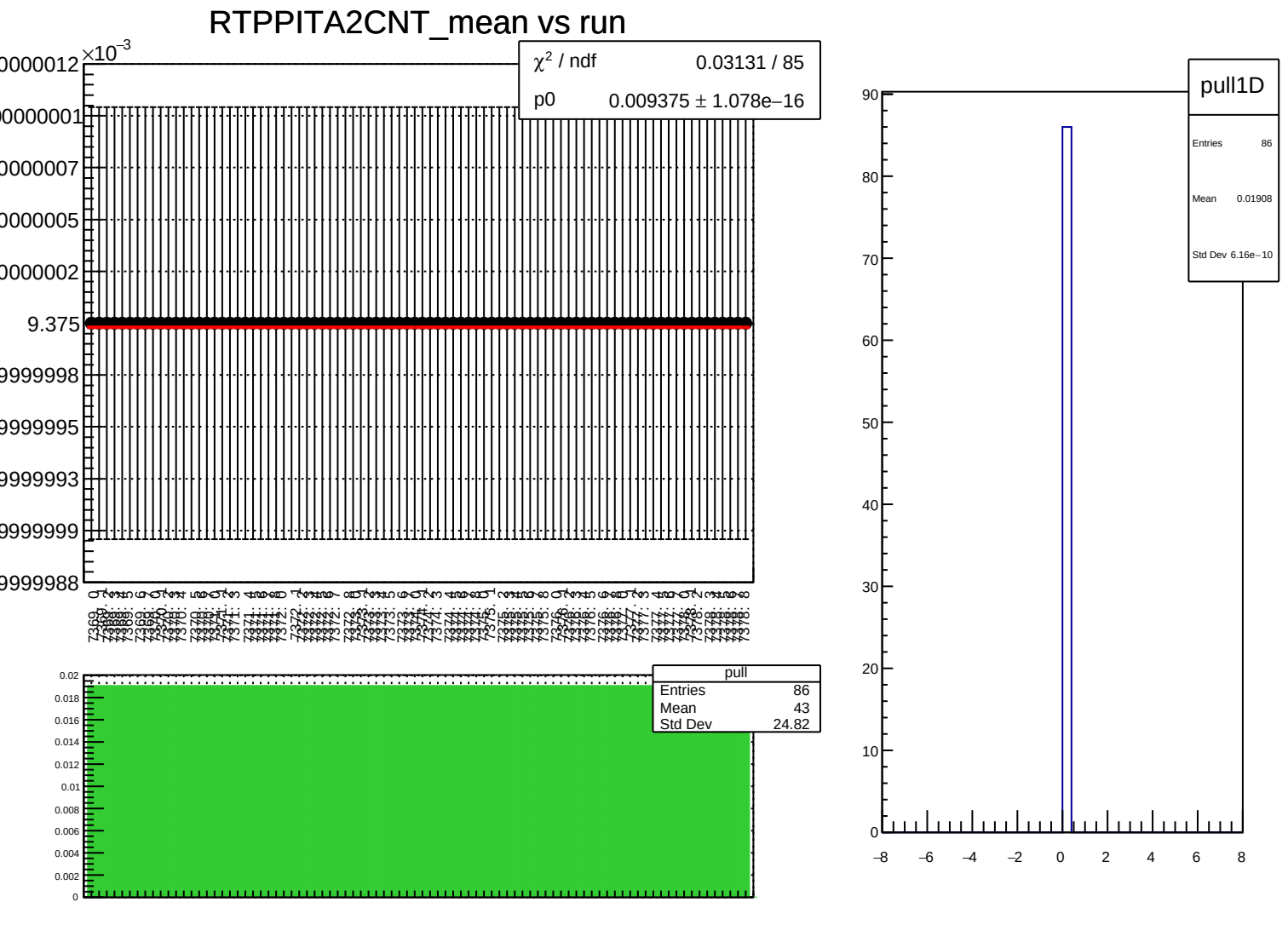

RTPAPOSUCNT_mean vs run
χ² / ndf 3.432e+27 / 85
p0 1146 ± 1.078e−16
1146.025
1146.02
1146.015
1146.01
1146.005
1146
pull
Entries 86
Mean −2.646e+09
Std Dev 0
×10¹²
15
10
5
0
−5
−10


pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 6.252e+05 / 85
p0 76.01± 1.078e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 86
Mean 43
Std Dev 24.82
80
70
60
50
40
30
20
10
0
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82


pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10


RTPPITA2CNT_mean vs run
×10⁻³
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
9.375
pull
Entries 86
Mean 43
Std Dev 24.82
pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10