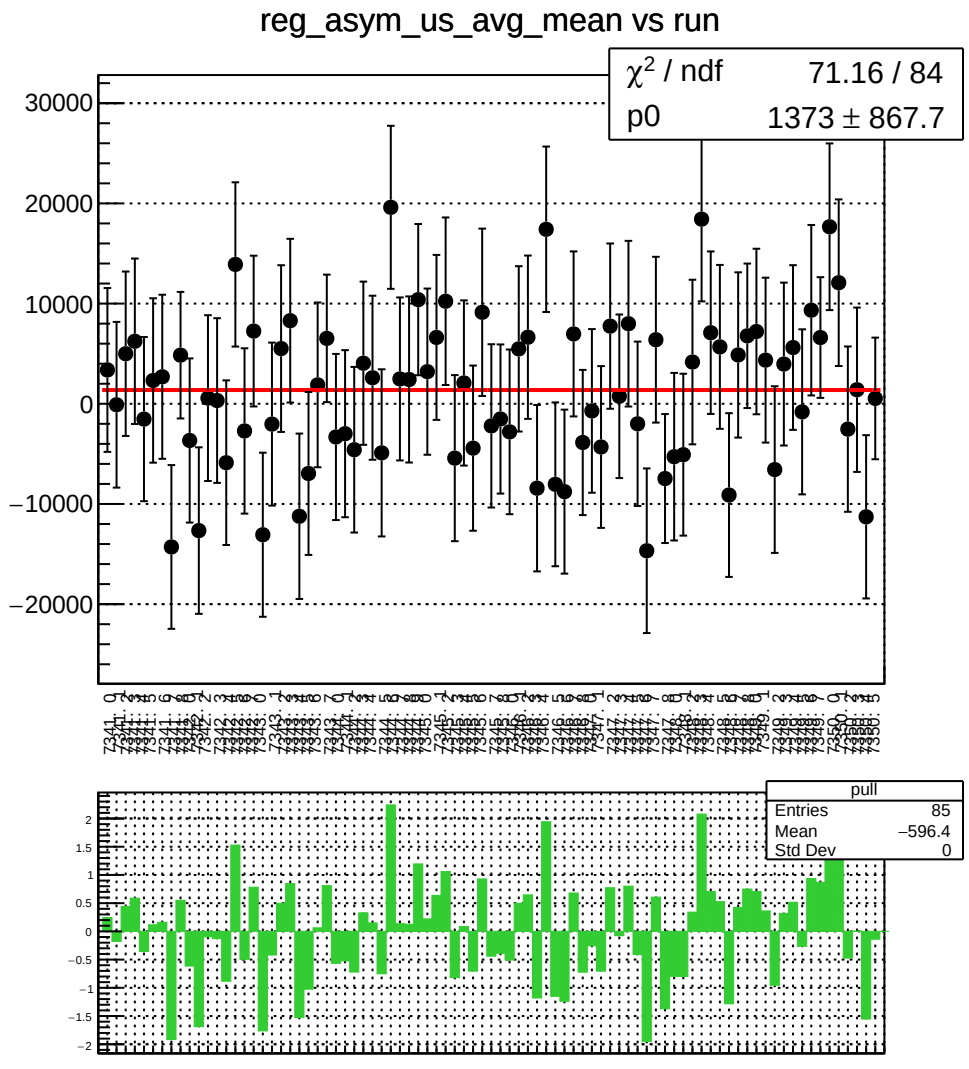
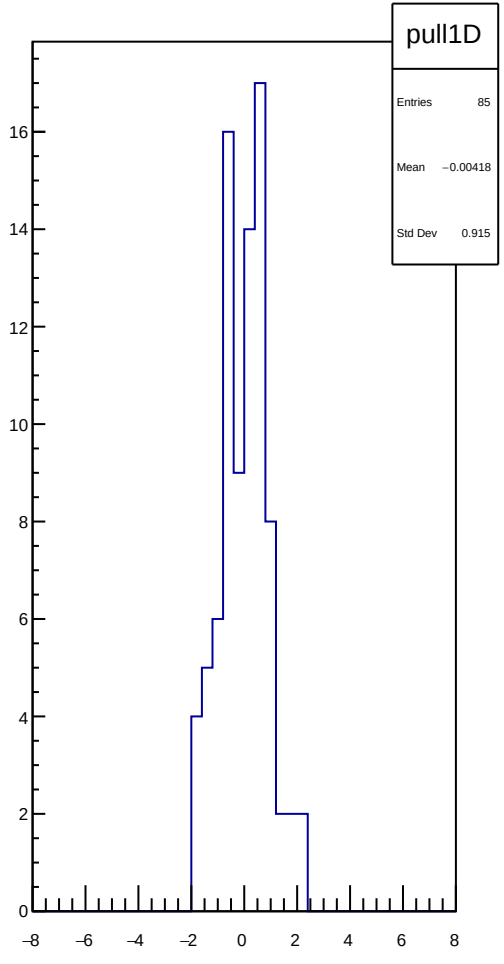
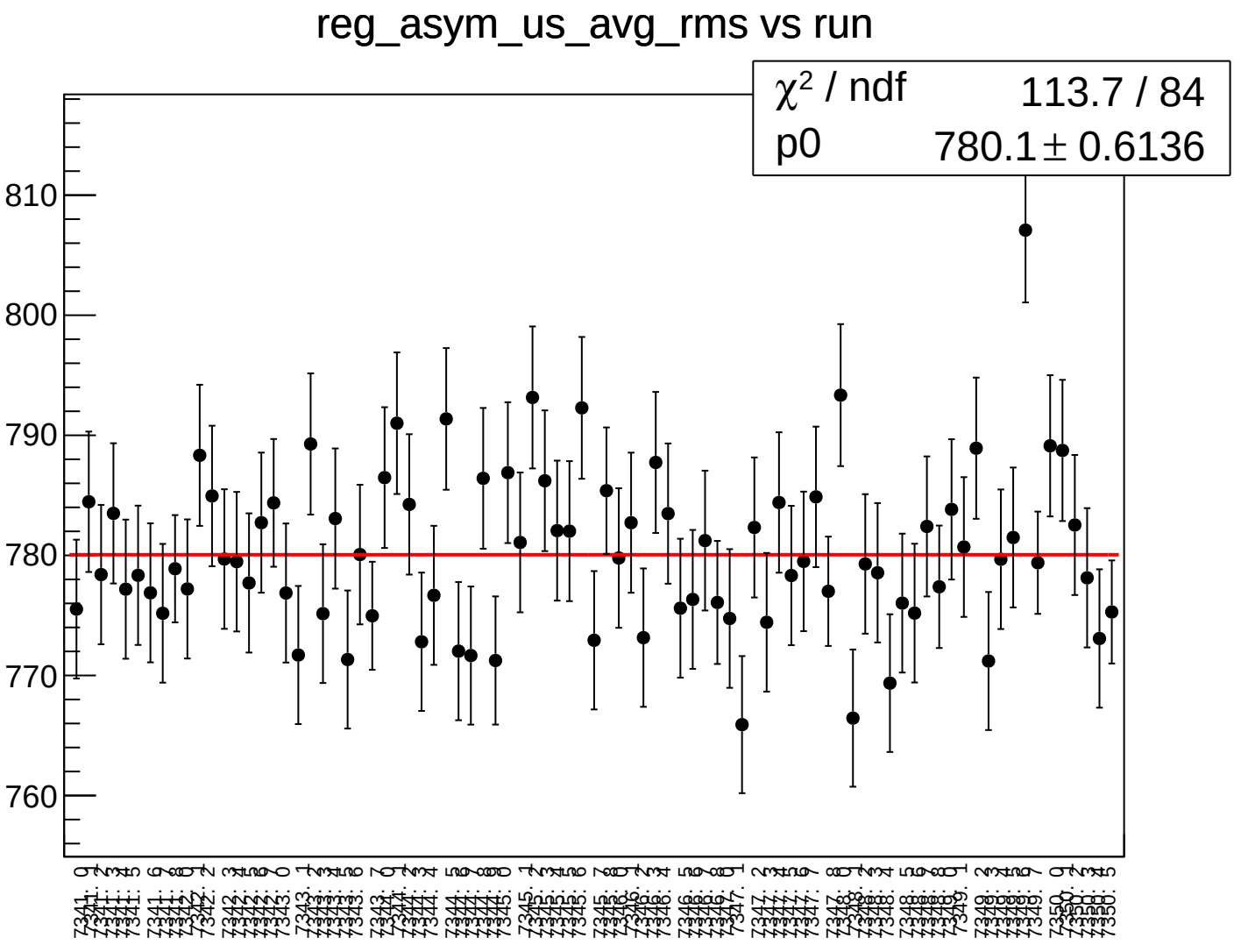
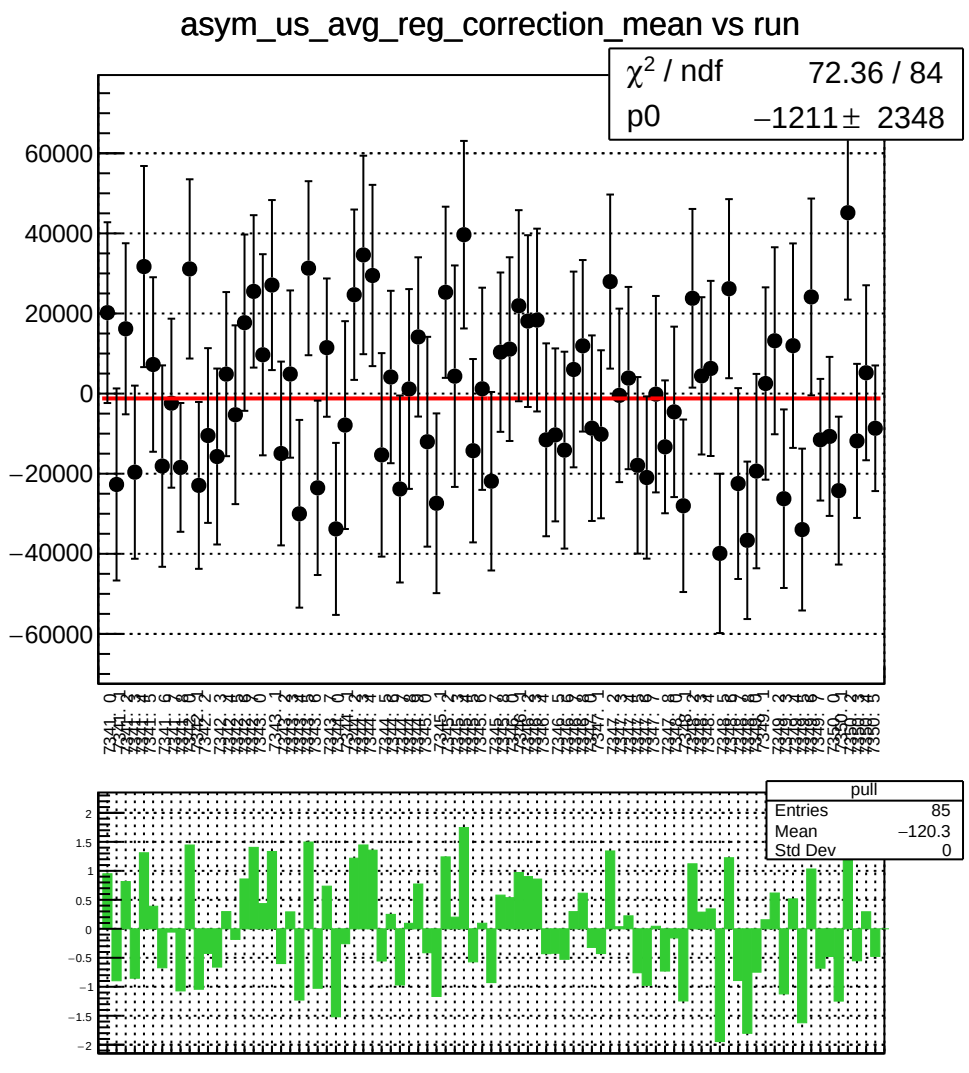
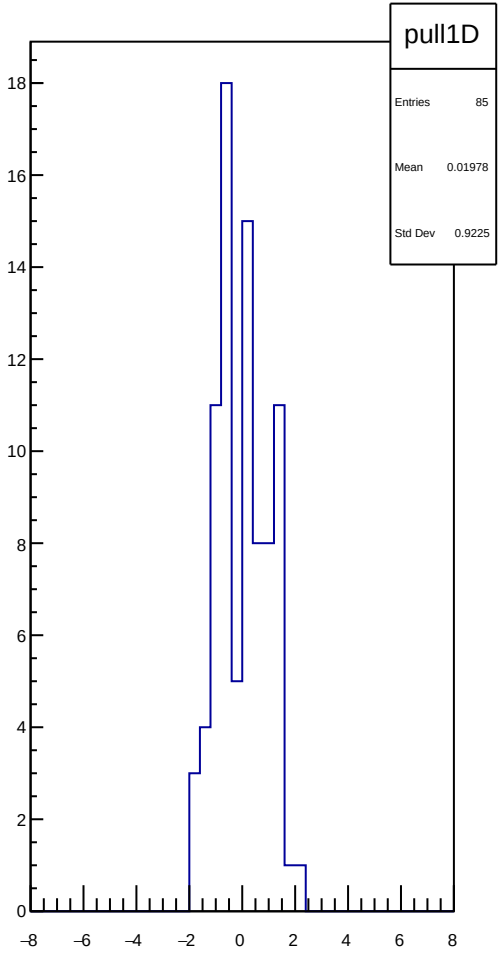
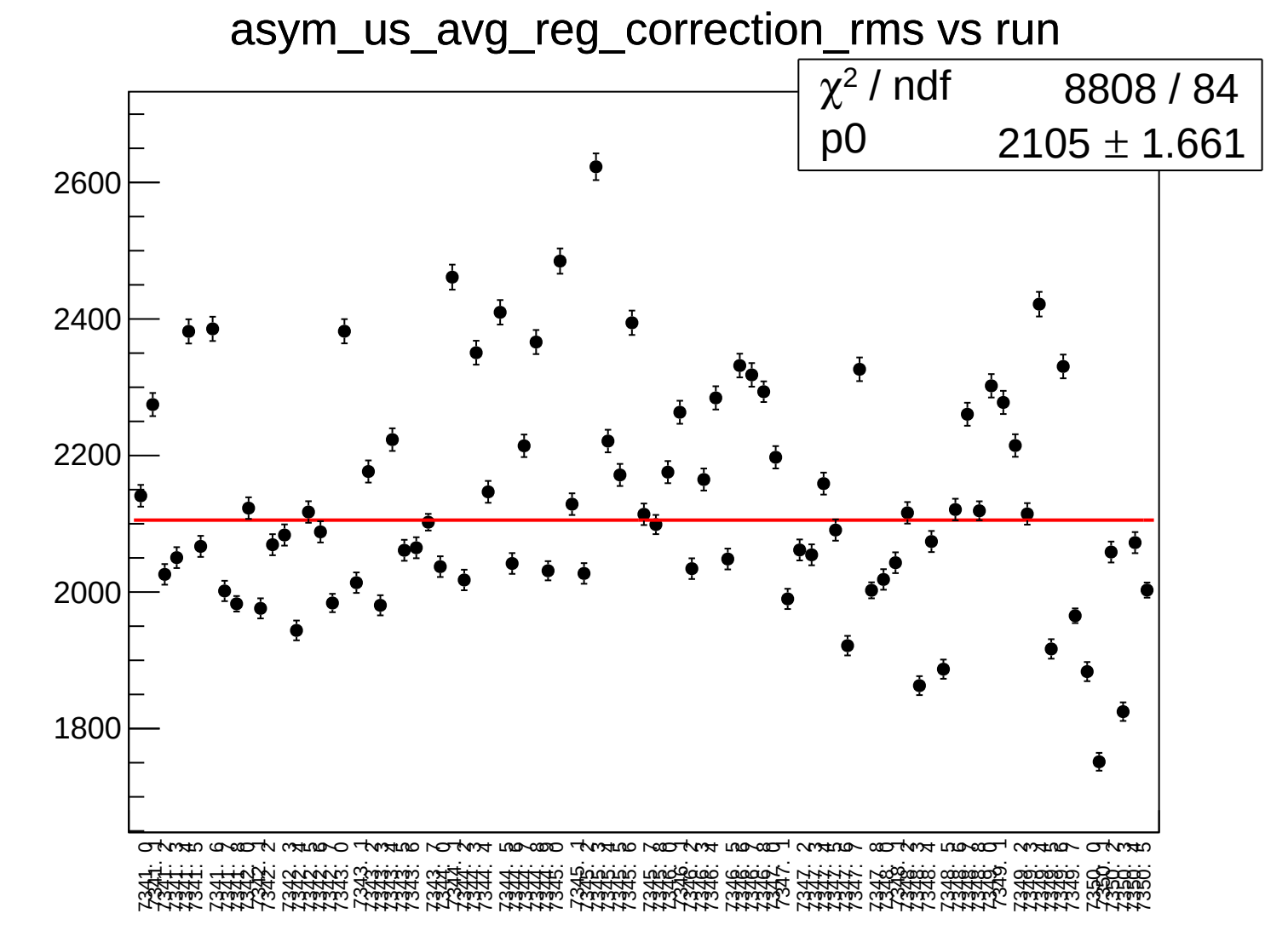

reg_asym_us_avg_mean vs run
χ² / ndf 71.16 / 84
p0 1373 ± 867.7
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −596.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

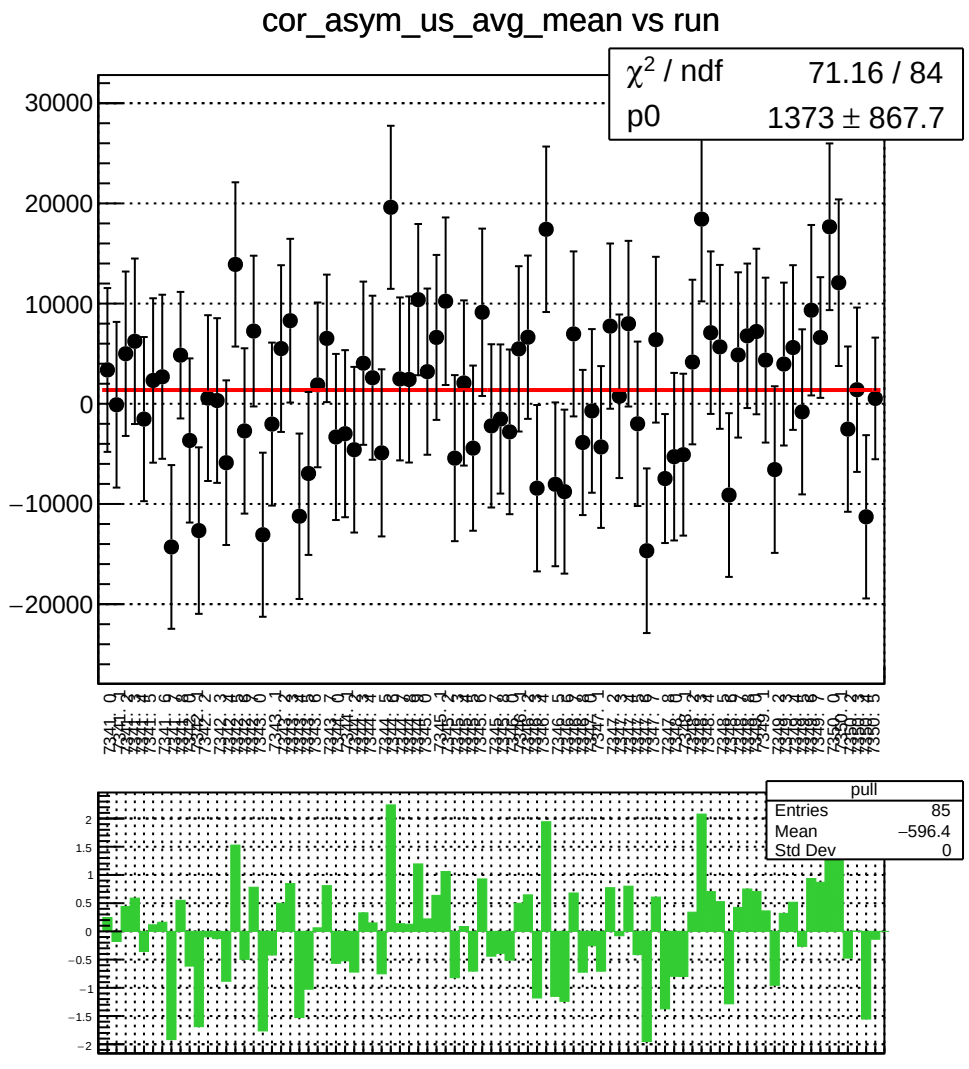

pull1D
Entries 85
Mean −0.00418
Std Dev 0.915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

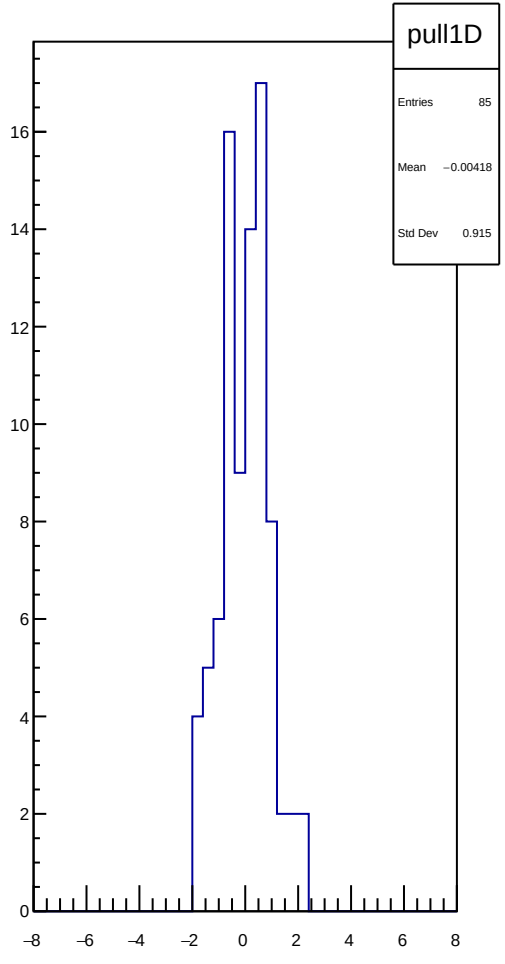

reg_asym_us_avg_rms vs run
χ² / ndf 113.7 / 84
p0 780.1 ± 0.6136
810
800
790
780
770
760

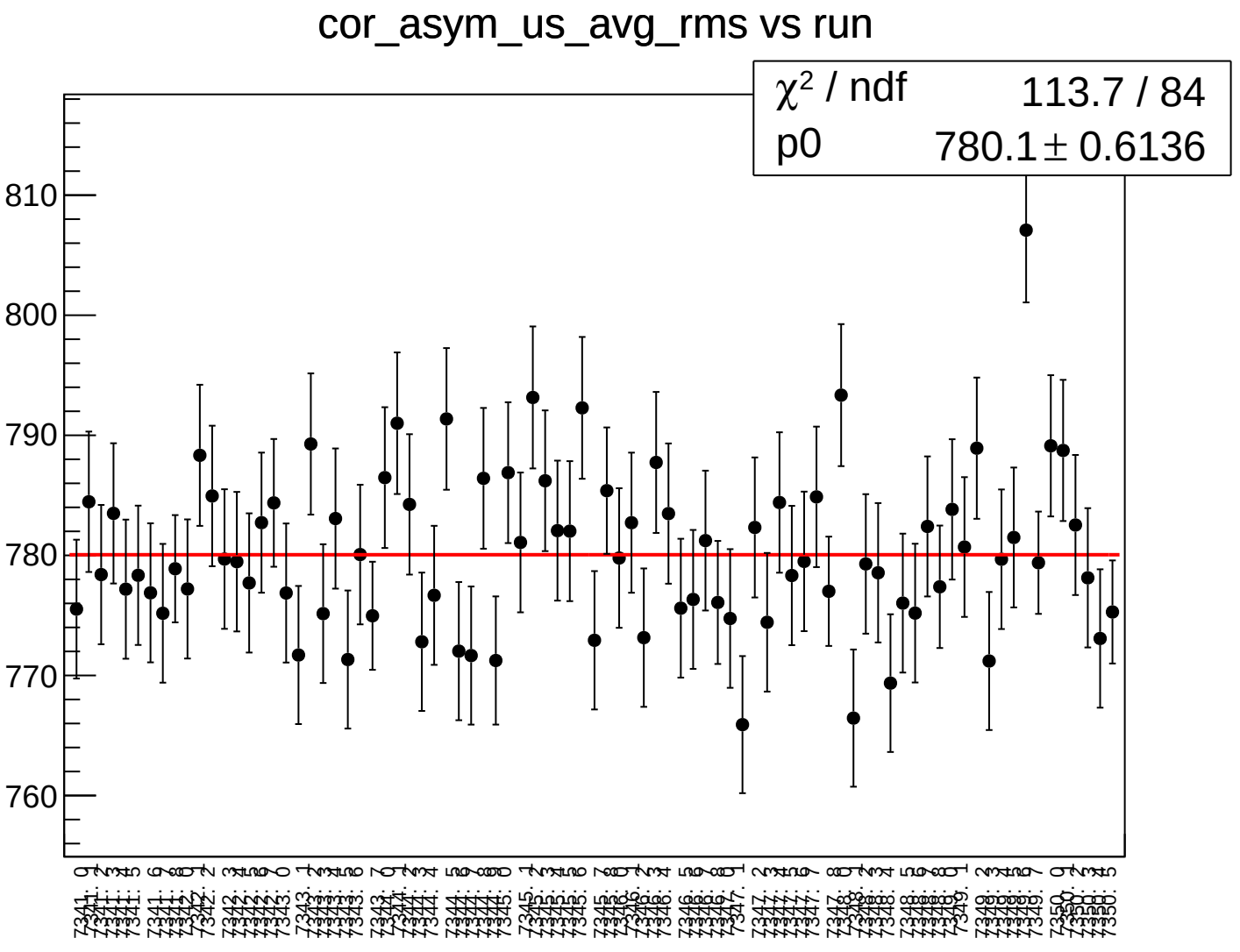

asym_us_avg_reg_correction_mean vs run
χ² / ndf 72.36 / 84
p0 −1211 ± 2348
pull
Entries 85
Mean −120.3
Std Dev 0

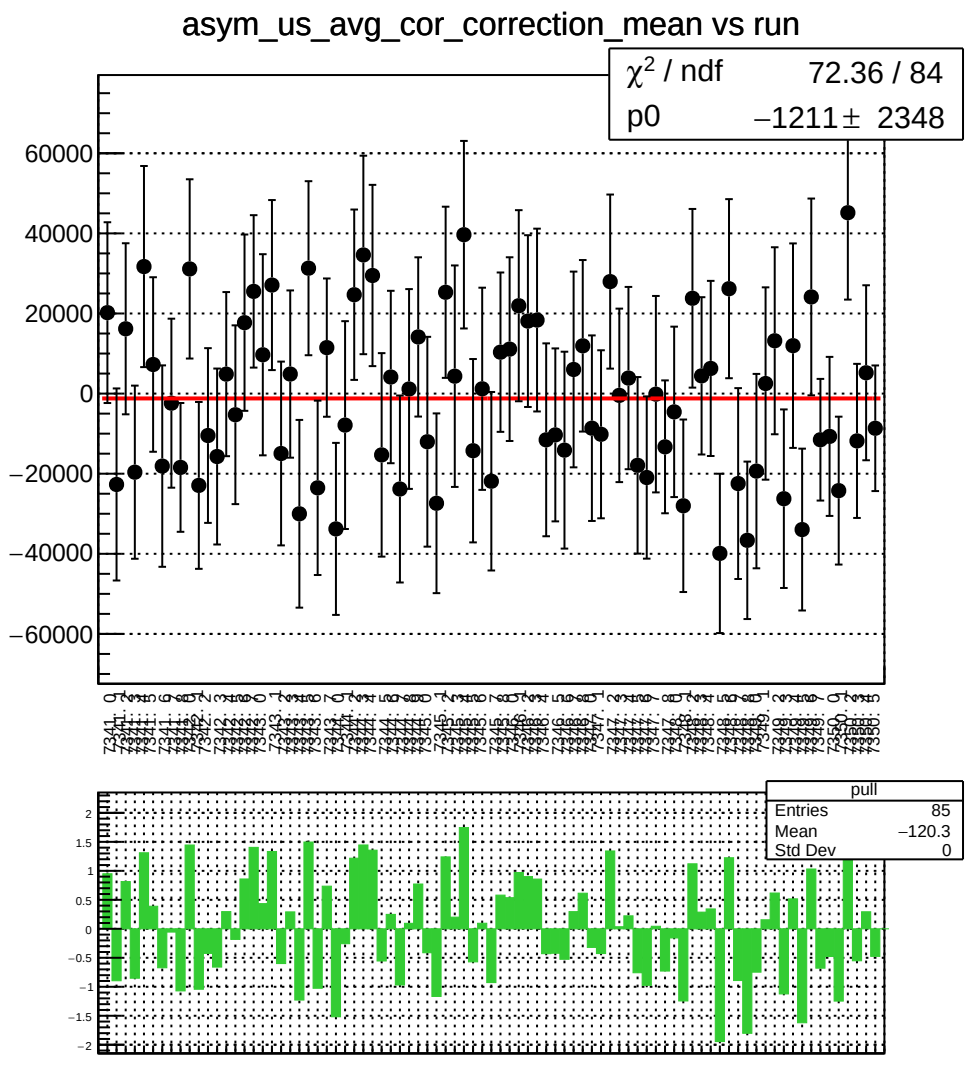

pull1D
Entries 85
Mean 0.01978
Std Dev 0.9225

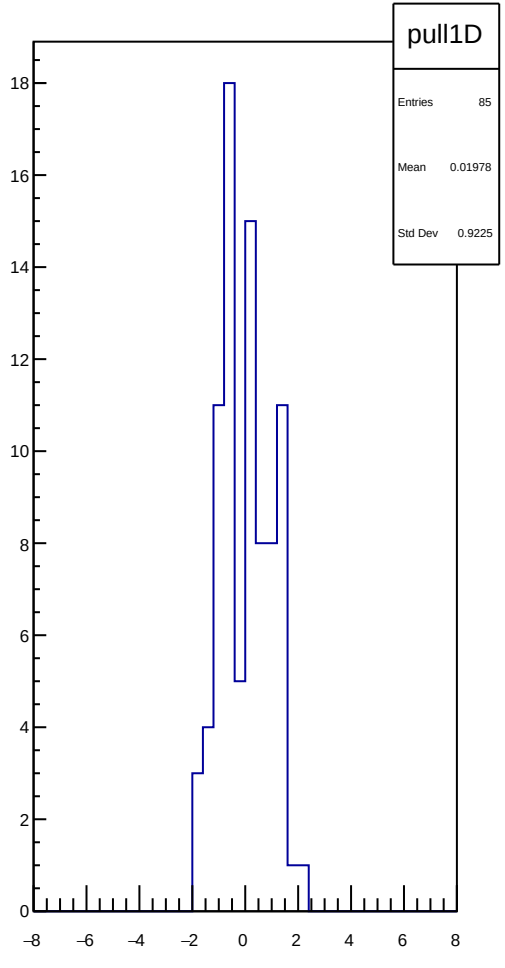

asym_us_avg_reg_correction_rms vs run
χ² / ndf 8808 / 84
p0 2105 ± 1.661
2600
2400
2200
2000
1800

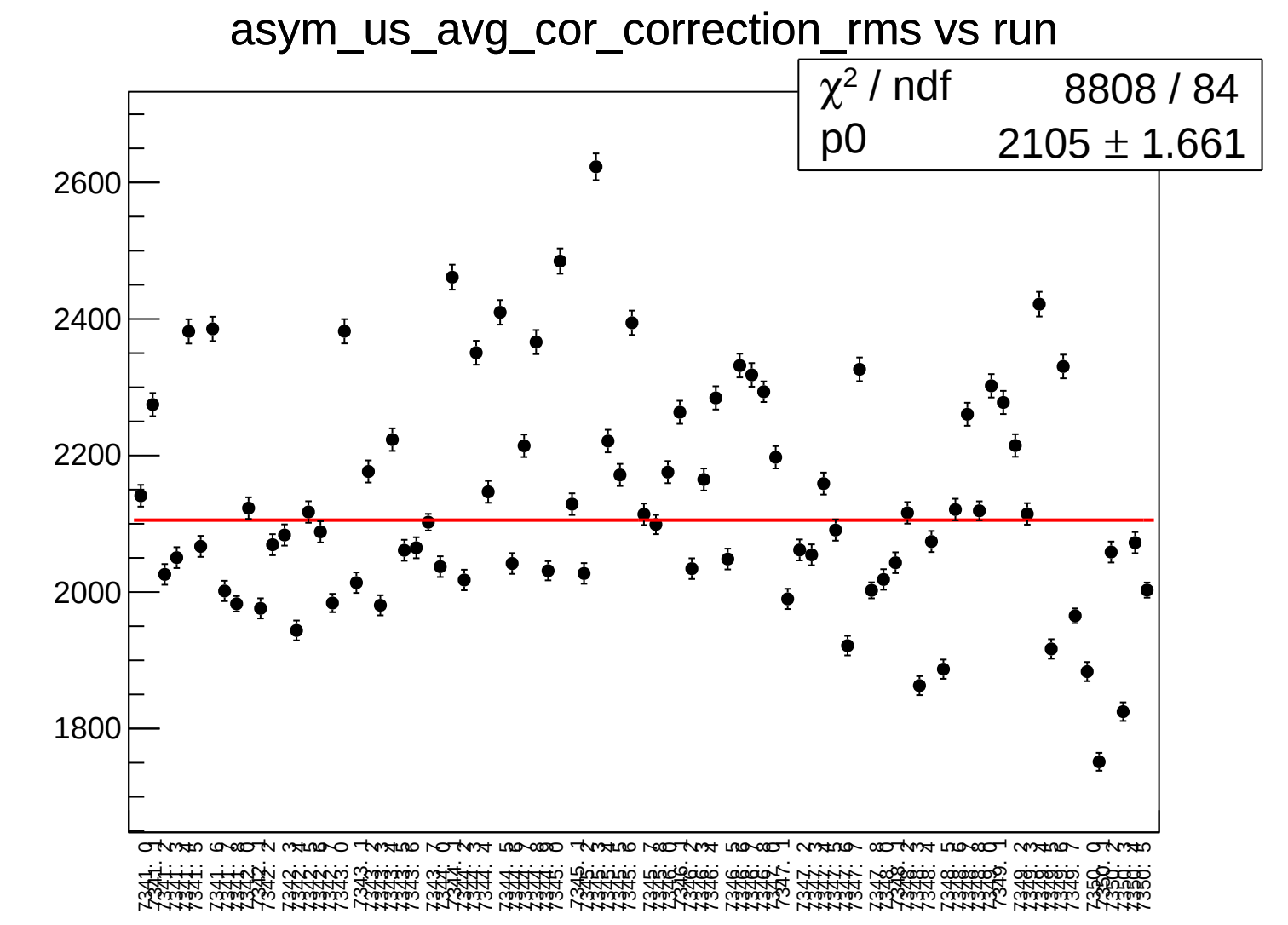

cor_asym_us_avg_mean vs run
χ² / ndf 71.16 / 84
p0 1373 ± 867.7
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −596.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

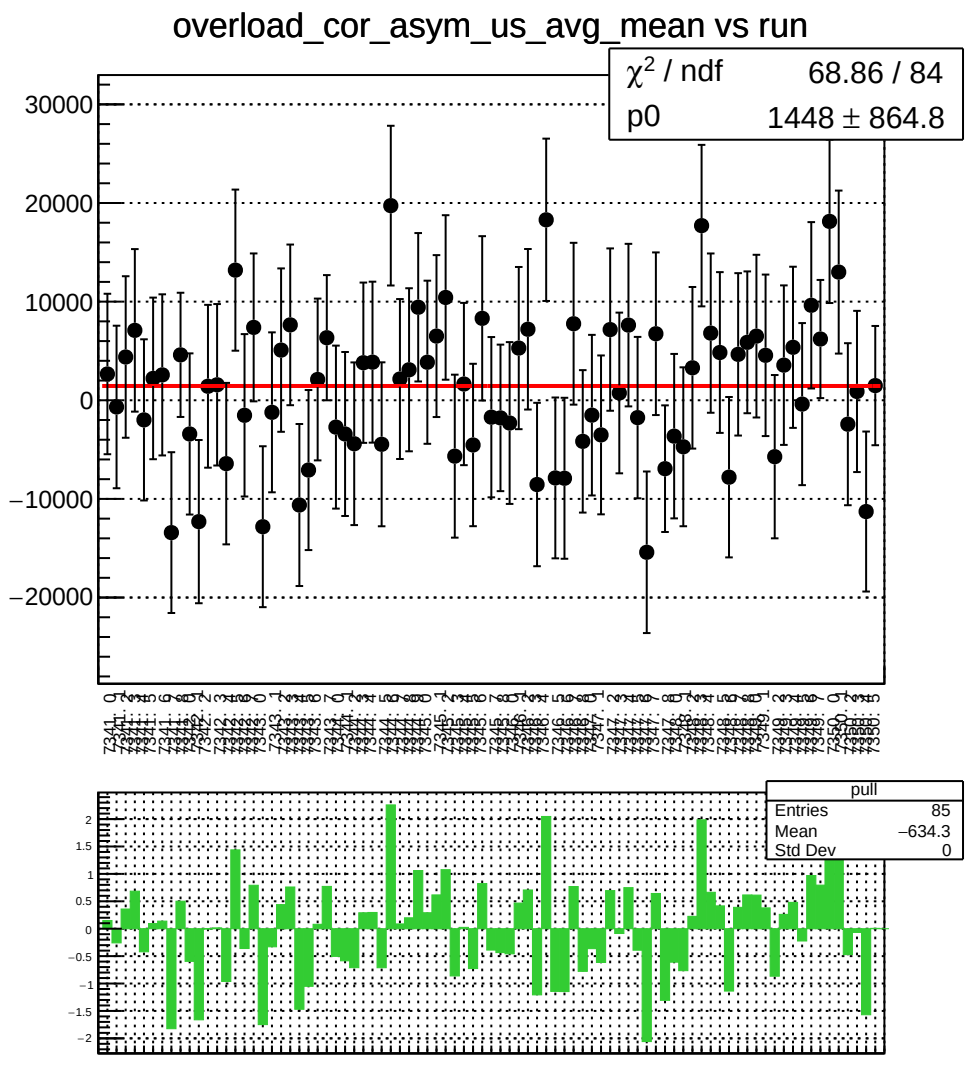

pull1D
Entries 85
Mean −0.00418
Std Dev 0.915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

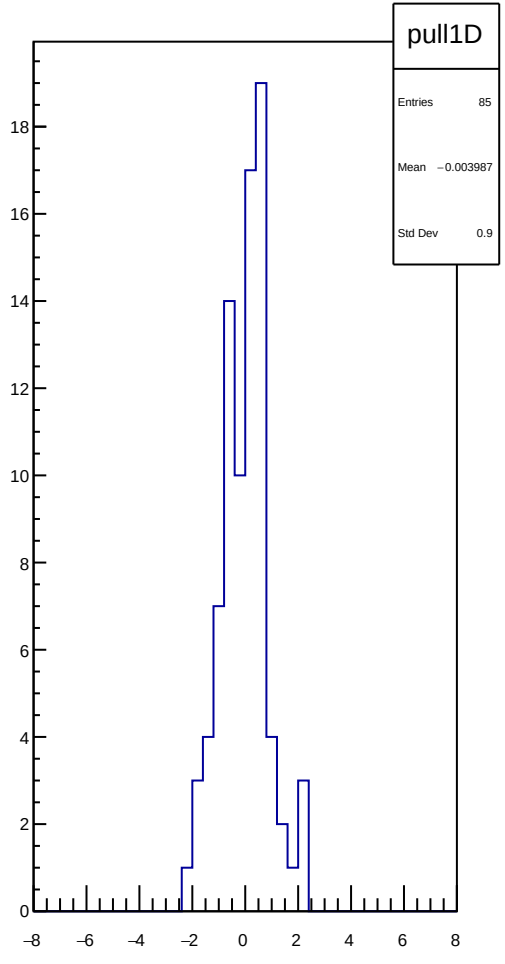

cor_asym_us_avg_rms vs run
χ² / ndf 113.7 / 84
p0 780.1 ± 0.6136
810
800
790
780
770
760

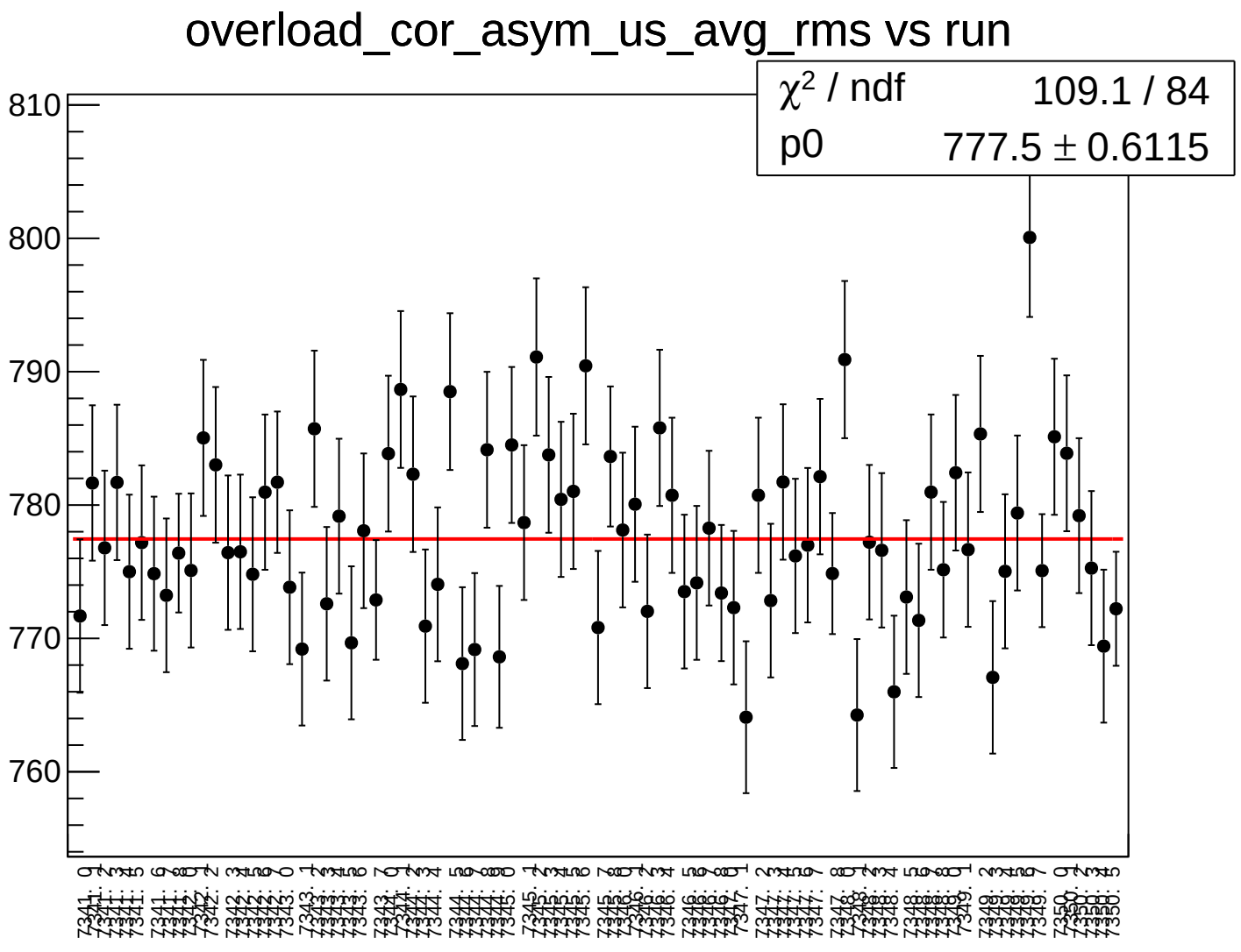

asym_us_avg_cor_correction_mean vs run
χ² / ndf 72.36 / 84
p0 −1211 ± 2348
pull
Entries 85
Mean −120.3
Std Dev 0

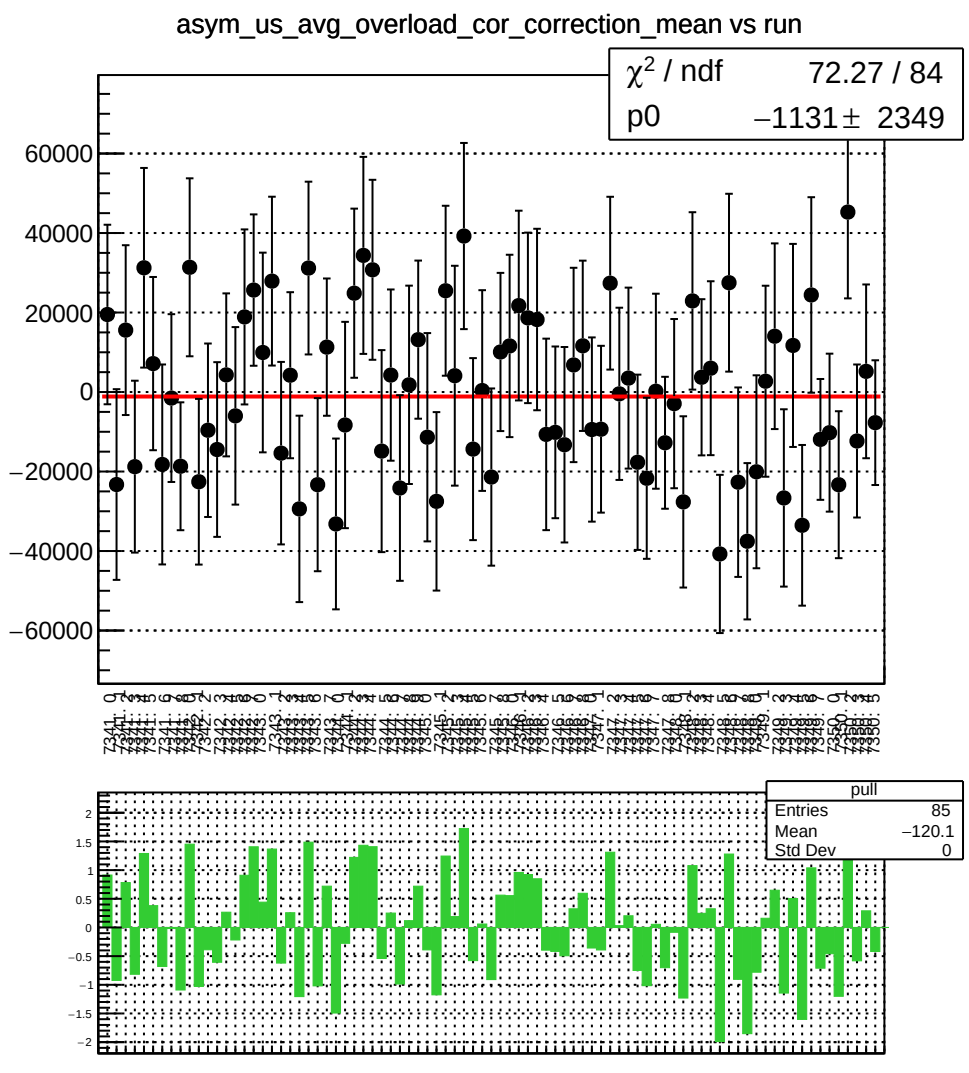

pull1D
Entries 85
Mean 0.01978
Std Dev 0.9225

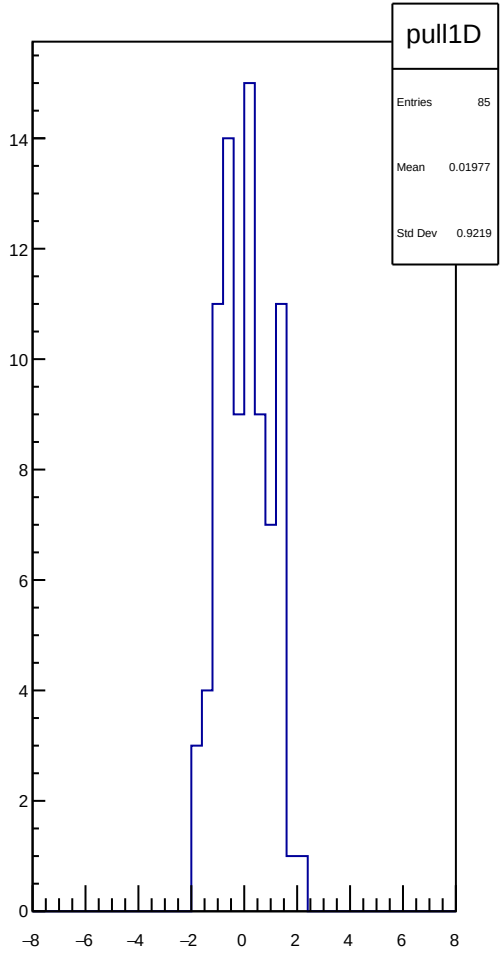

asym_us_avg_cor_correction_rms vs run
χ² / ndf 8808 / 84
p0 2105 ± 1.661
2600
2400
2200
2000
1800


overload_cor_asym_us_avg_mean vs run
χ² / ndf 68.86 / 84
p0 1448 ± 864.8
pull
Entries 85
Mean −634.3
Std Dev 0


pull1D
Entries 85
Mean −0.003987
Std Dev 0.9


overload_cor_asym_us_avg_rms vs run
χ² / ndf 109.1 / 84
p0 777.5 ± 0.6115
810
800
790
780
770
760


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 72.27 / 84
p0 −1131 ± 2349
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −120.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 85
Mean 0.01977
Std Dev 0.9219
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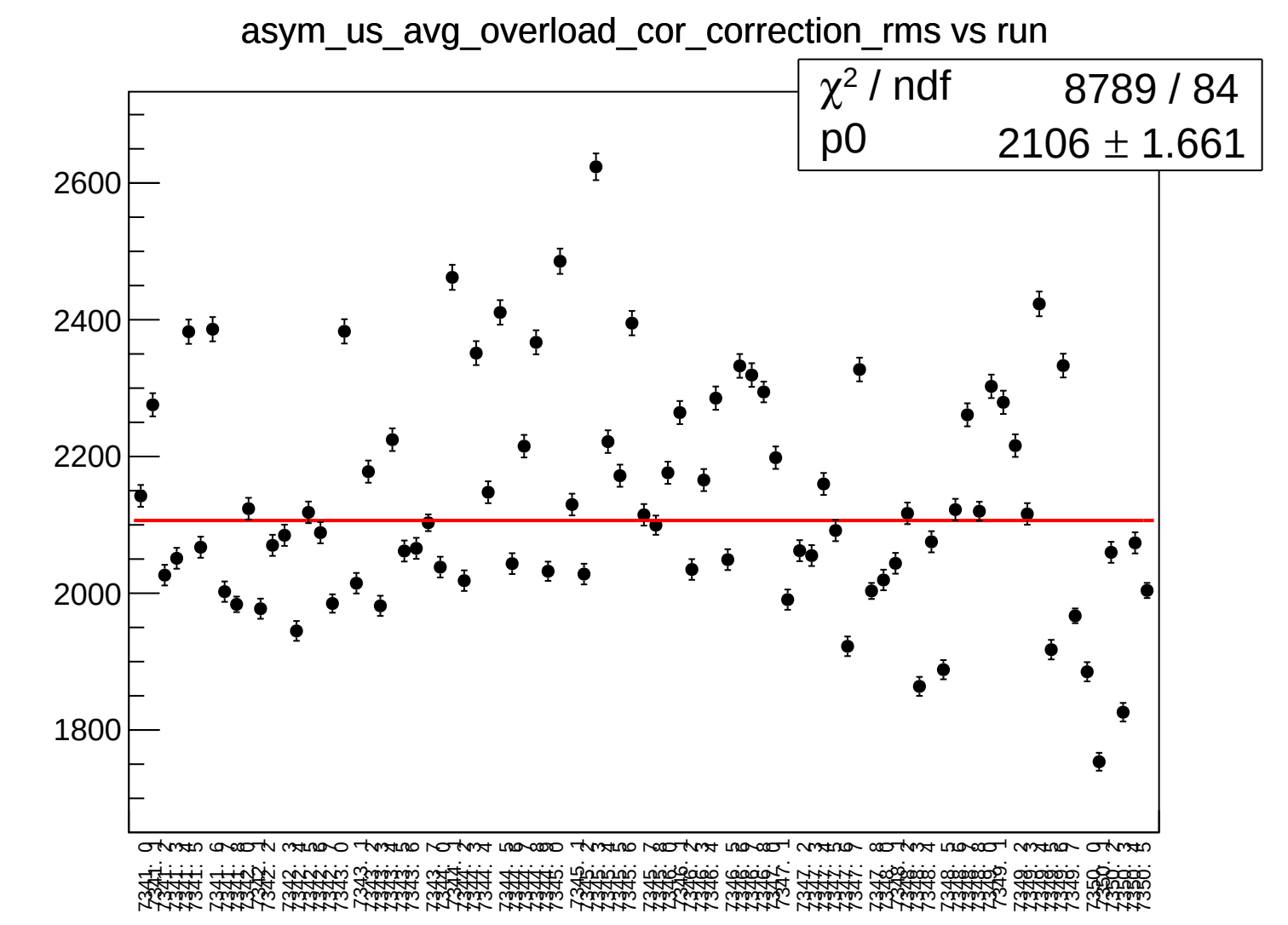
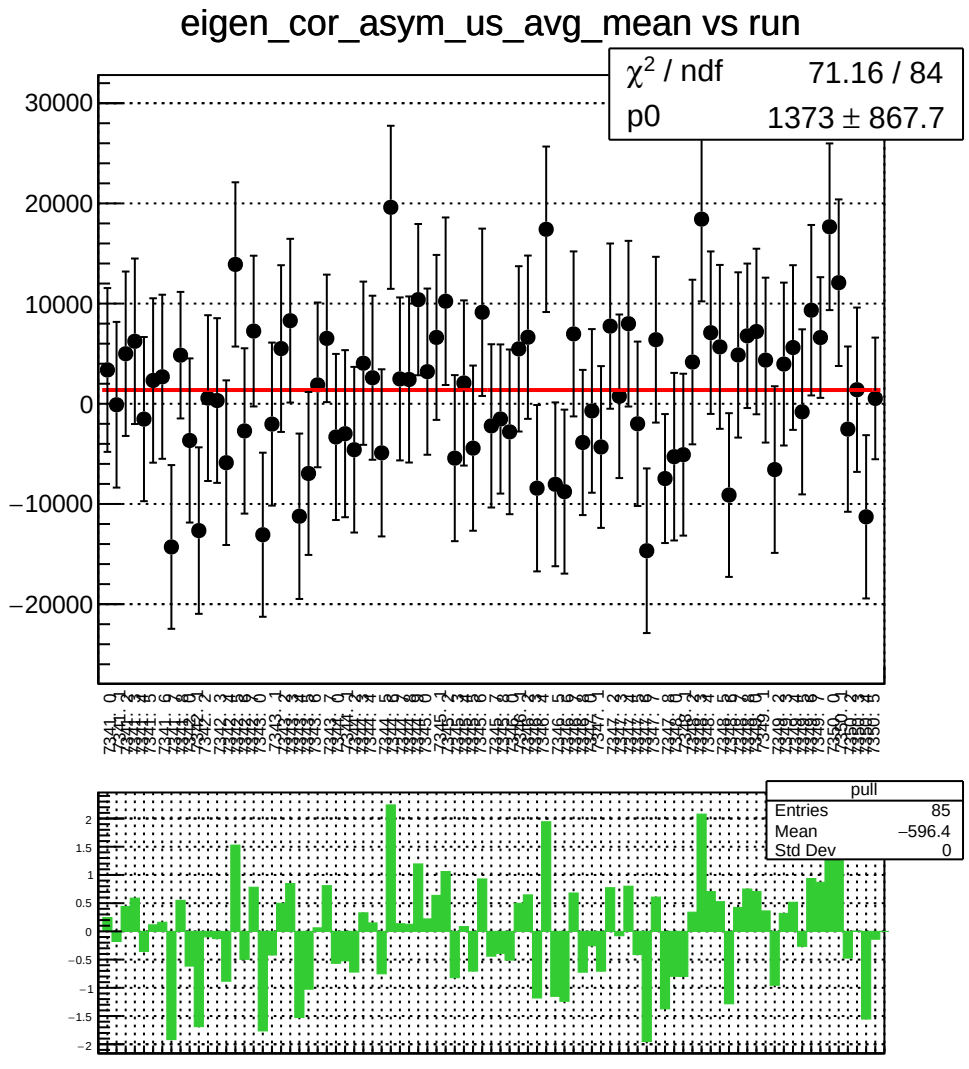
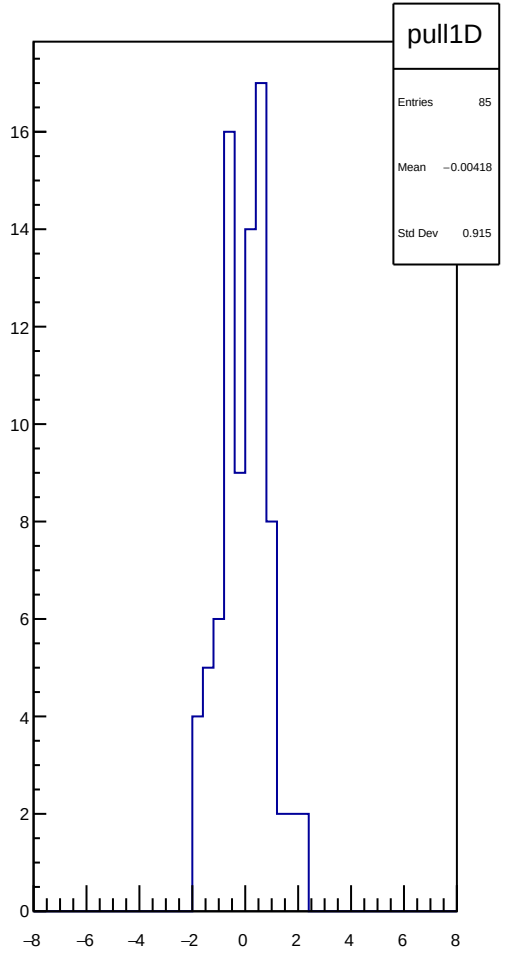
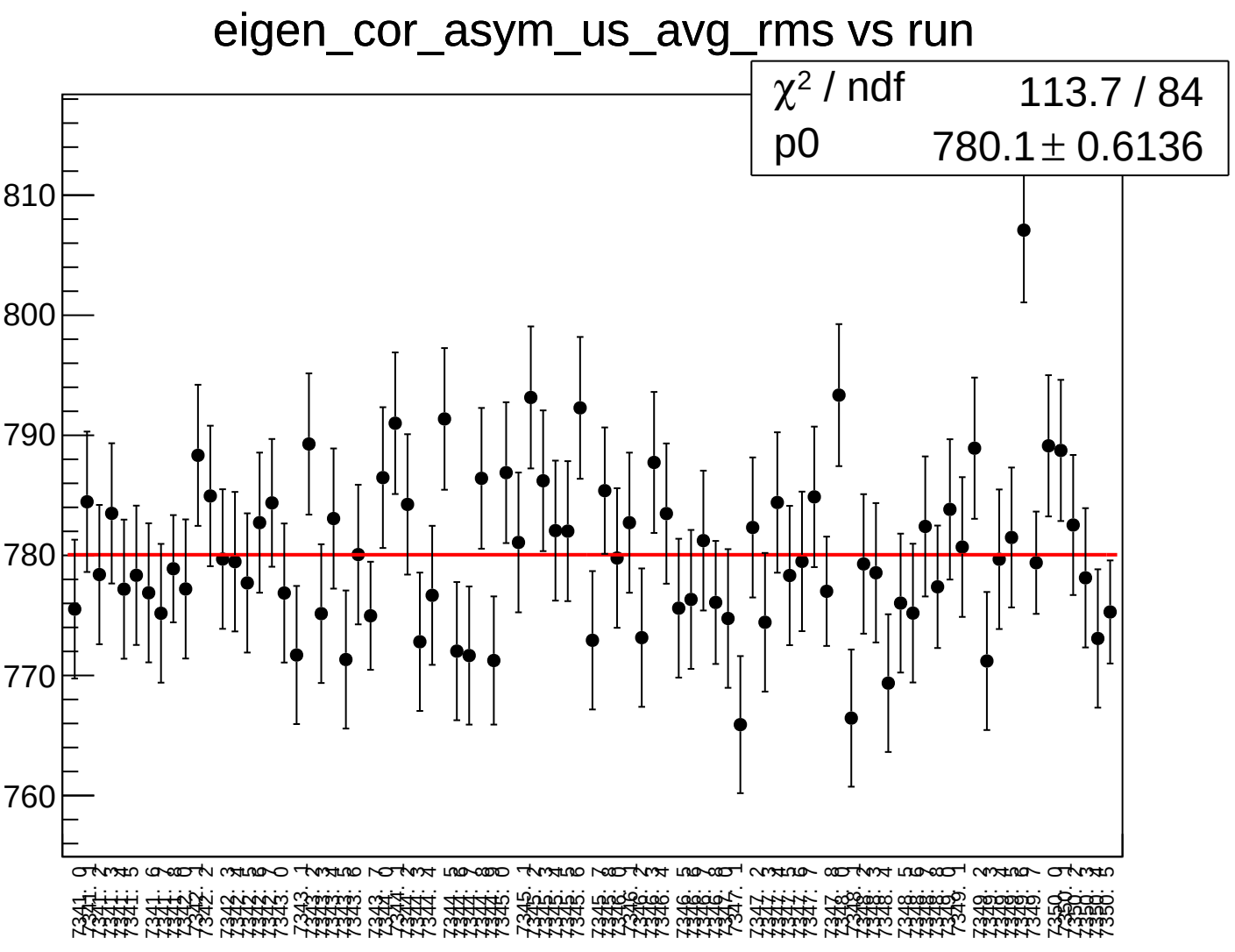
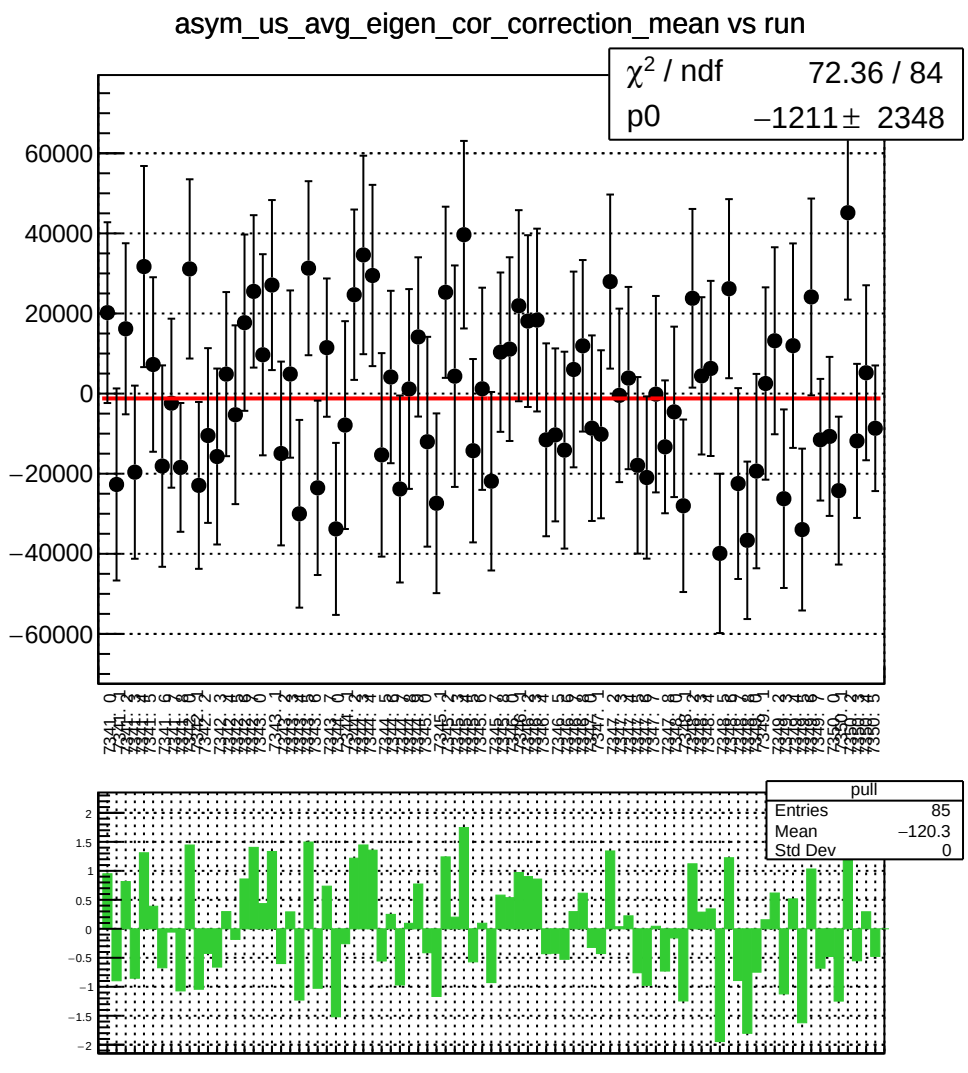
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

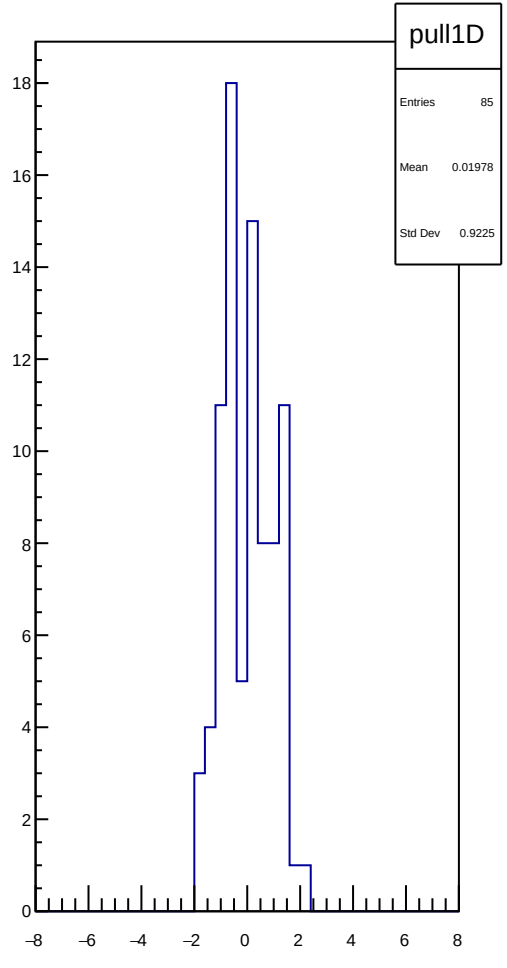

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 8789 / 84
p0 2106 ± 1.661
2600
2400
2200
2000
1800

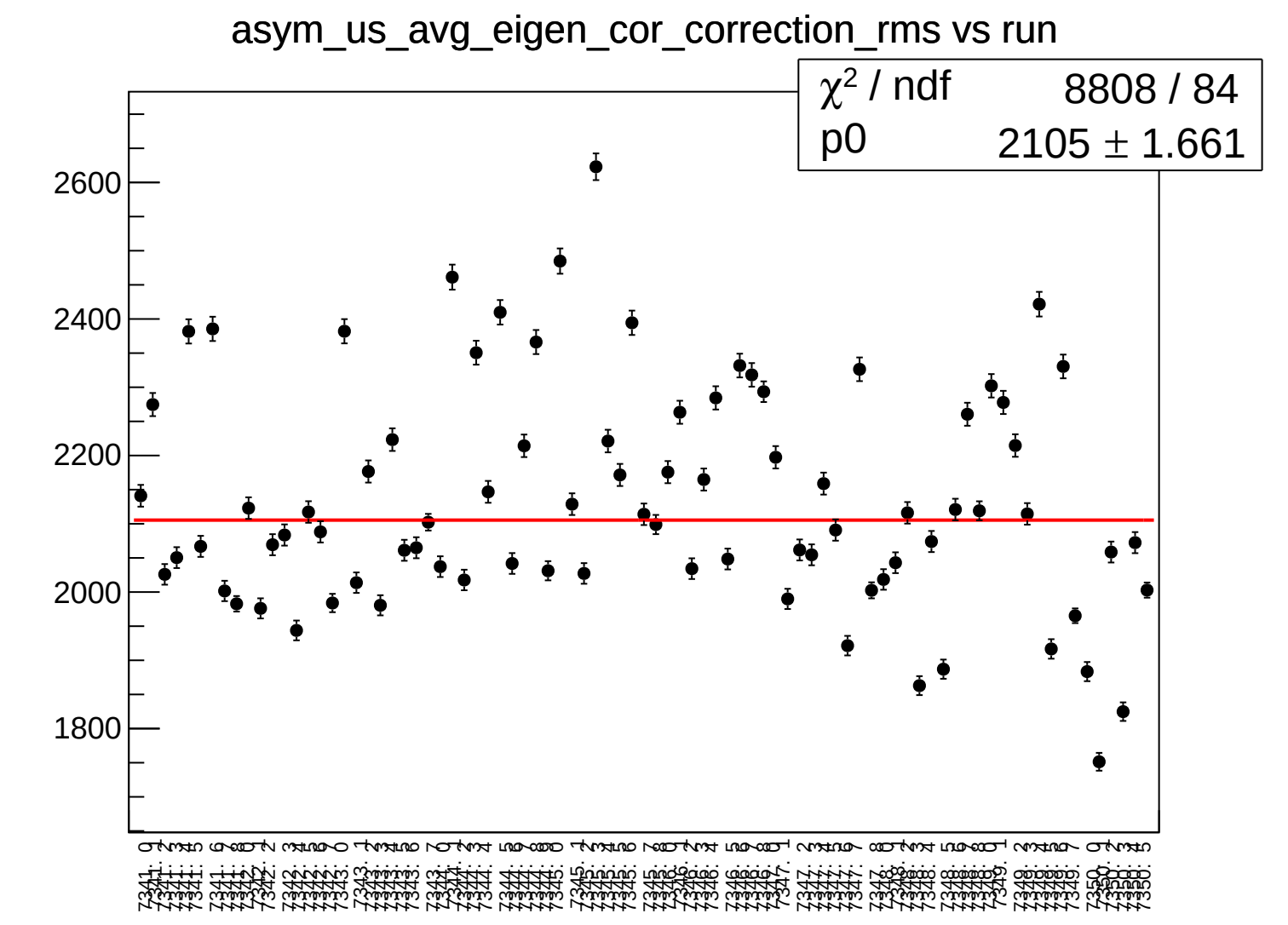

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 71.16 / 84
p0 1373 ± 867.7
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −596.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

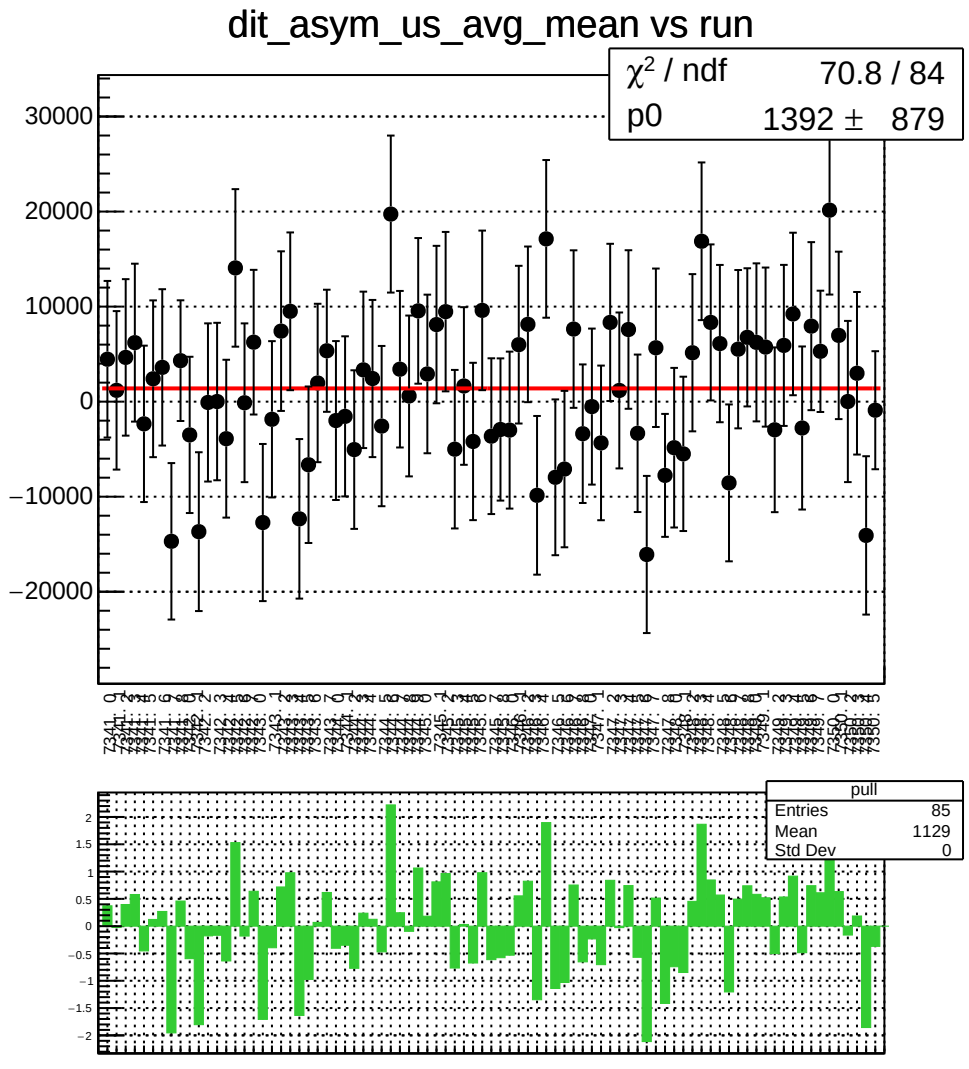

pull1D
Entries 85
Mean −0.00418
Std Dev 0.915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

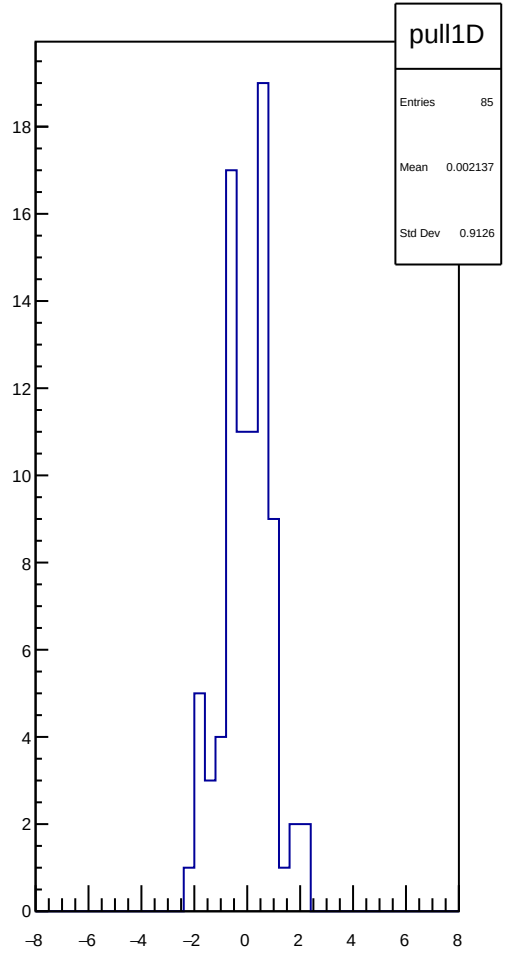

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 113.7 / 84
p0 780.1 ± 0.6136
810
800
790
780
770
760

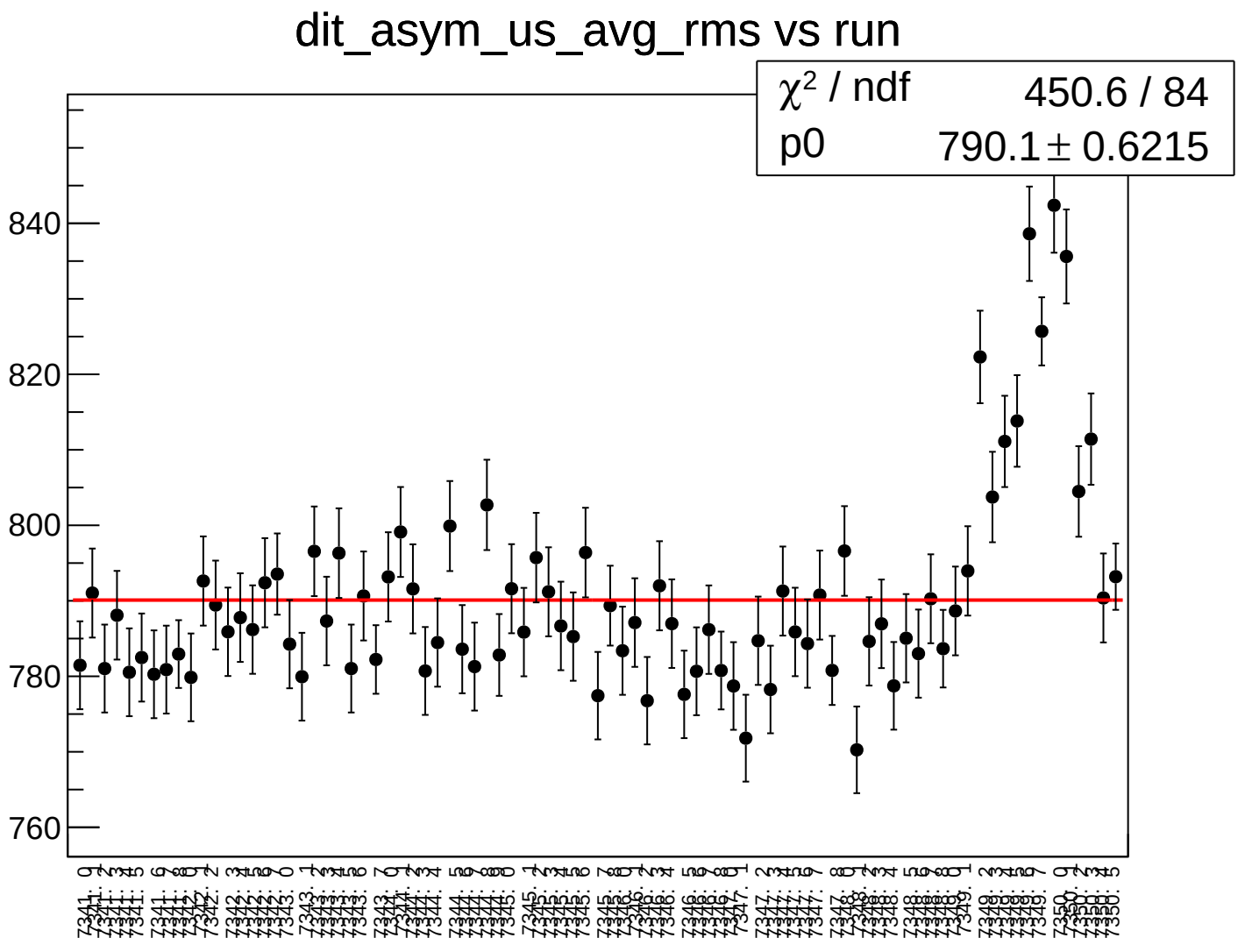

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.36 / 84
p0 −1211 ± 2348
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −120.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

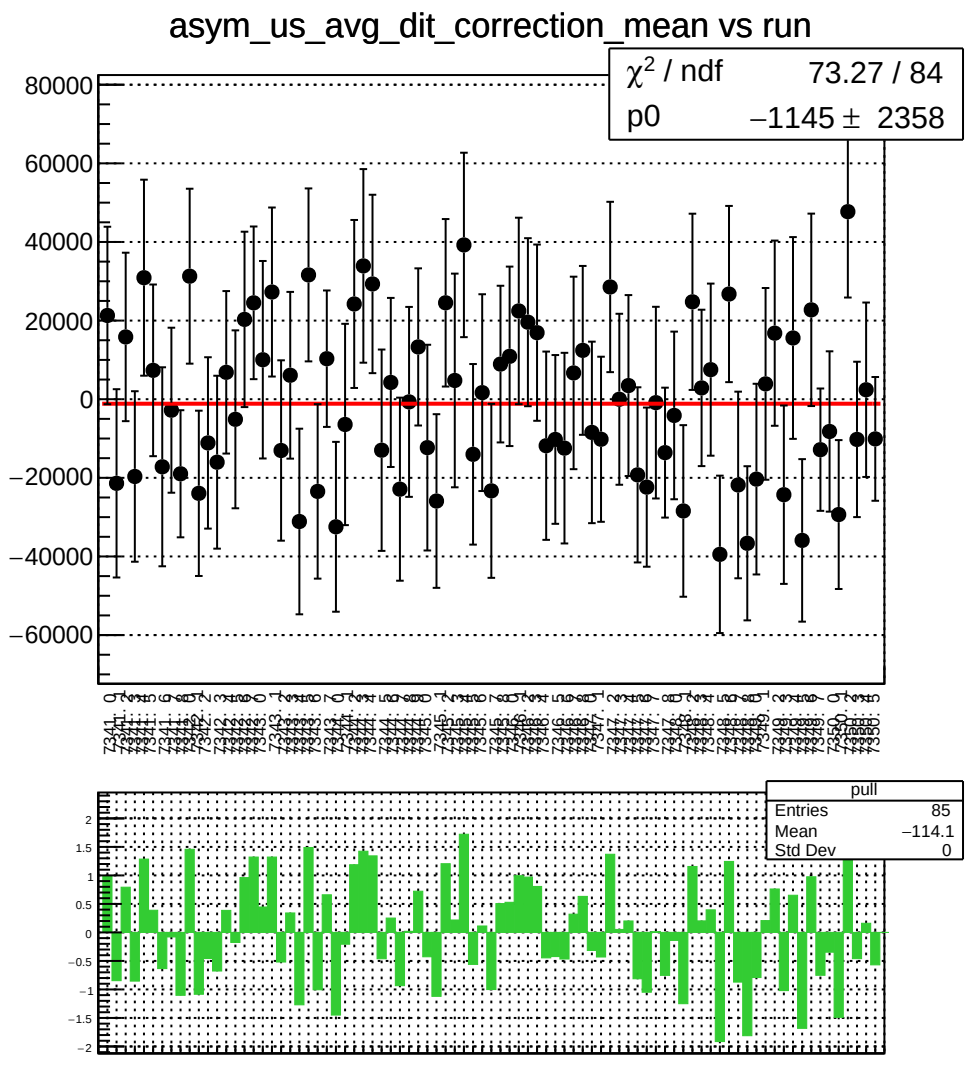

pull1D
Entries 85
Mean 0.01978
Std Dev 0.9225
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

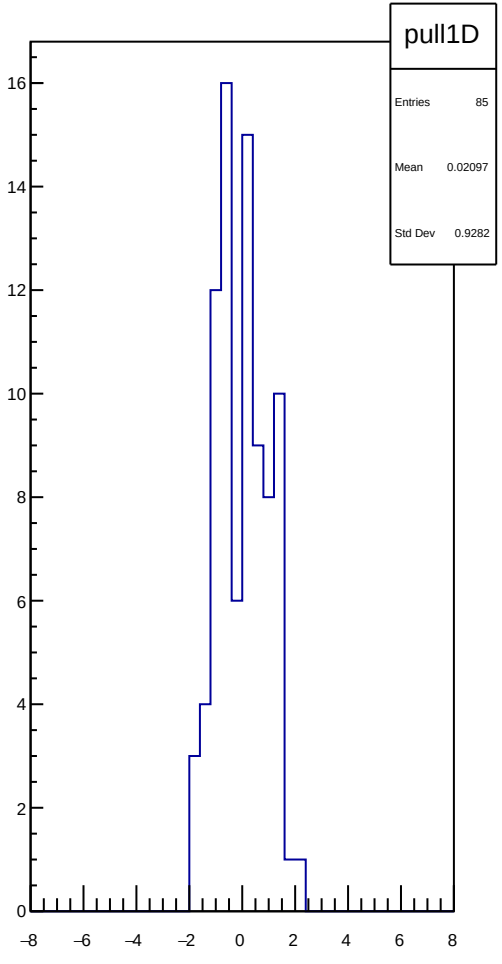

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 8808 / 84
p0 2105 ± 1.661
2600
2400
2200
2000
1800

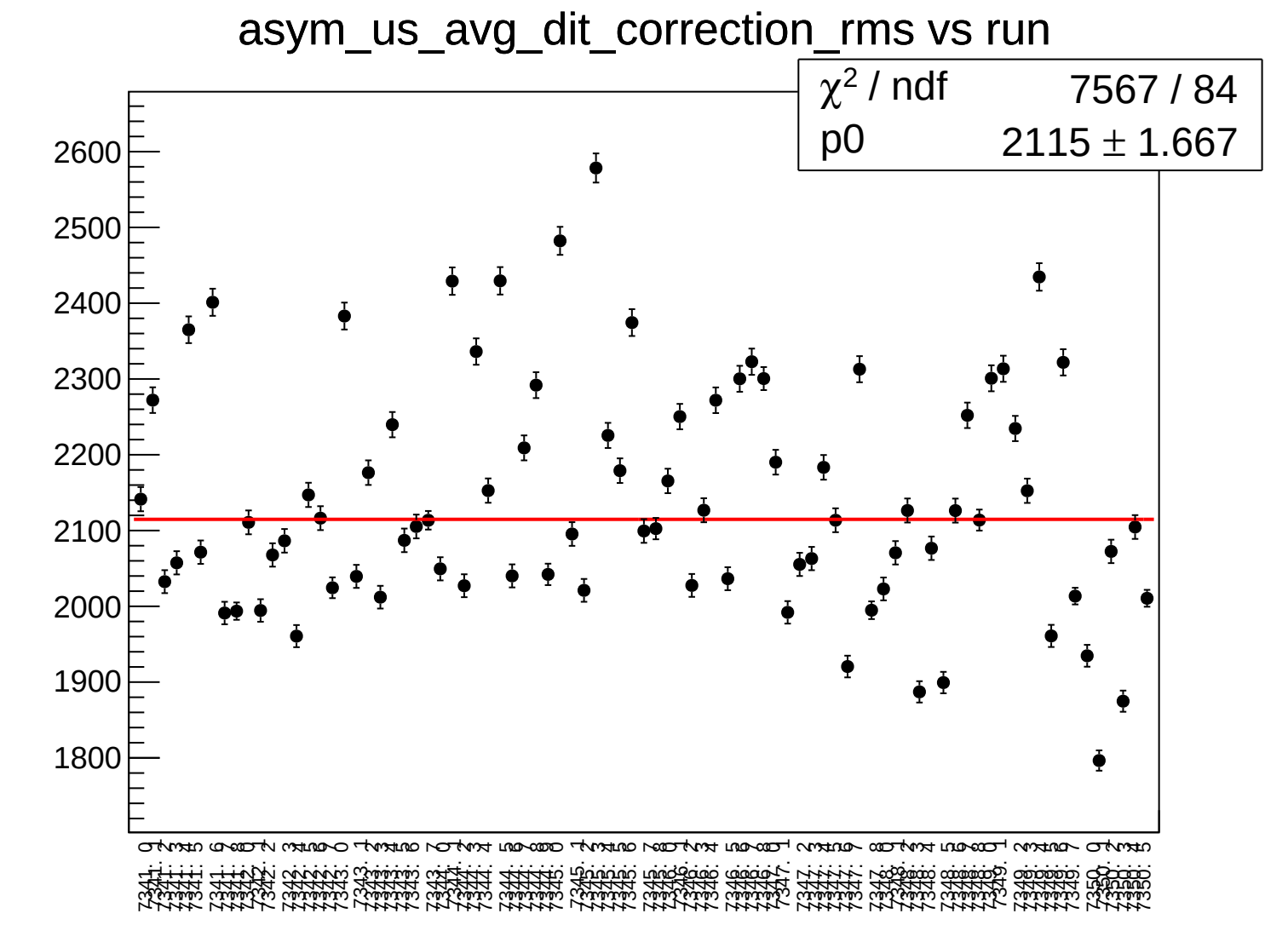

dit_asym_us_avg_mean vs run
χ² / ndf 70.8 / 84
p0 1392 ± 879
pull
Entries 85
Mean 1129
Std Dev 0

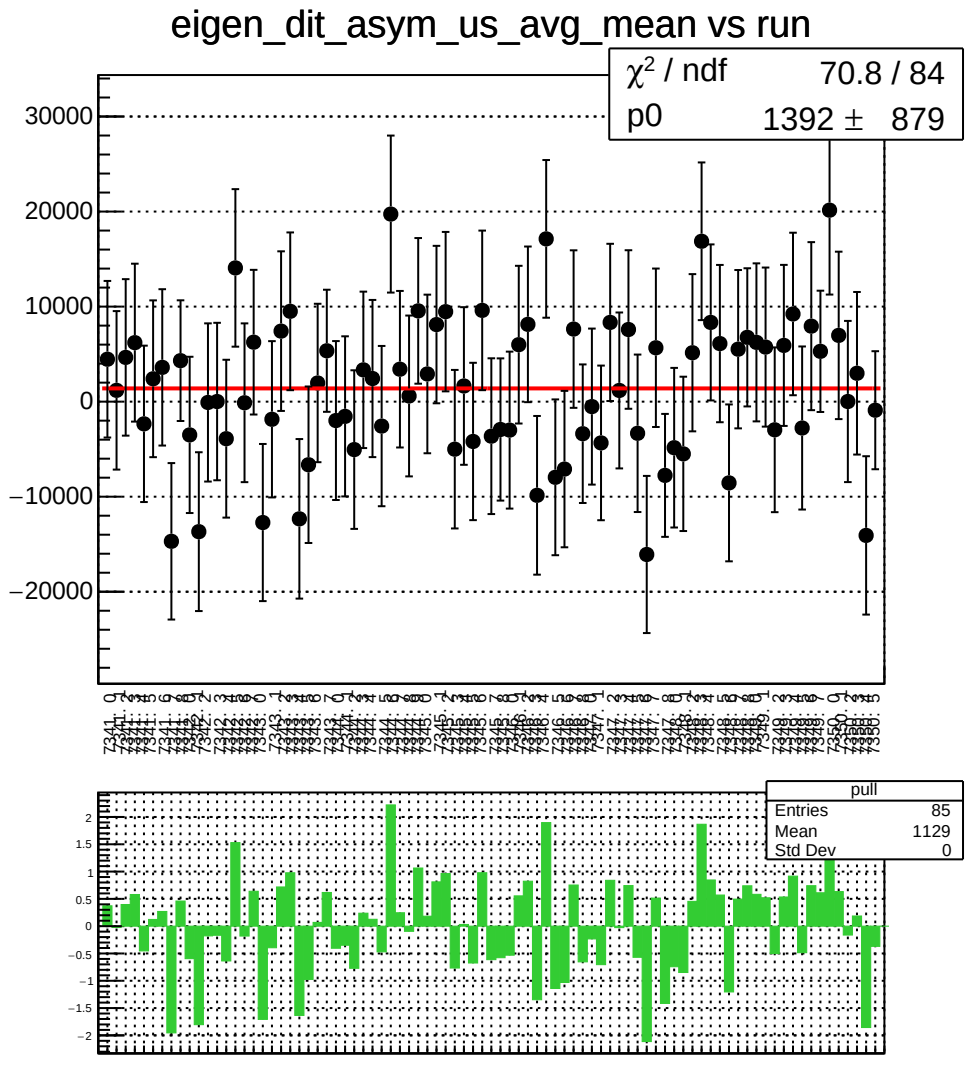

pull1D
Entries 85
Mean 0.002137
Std Dev 0.9126

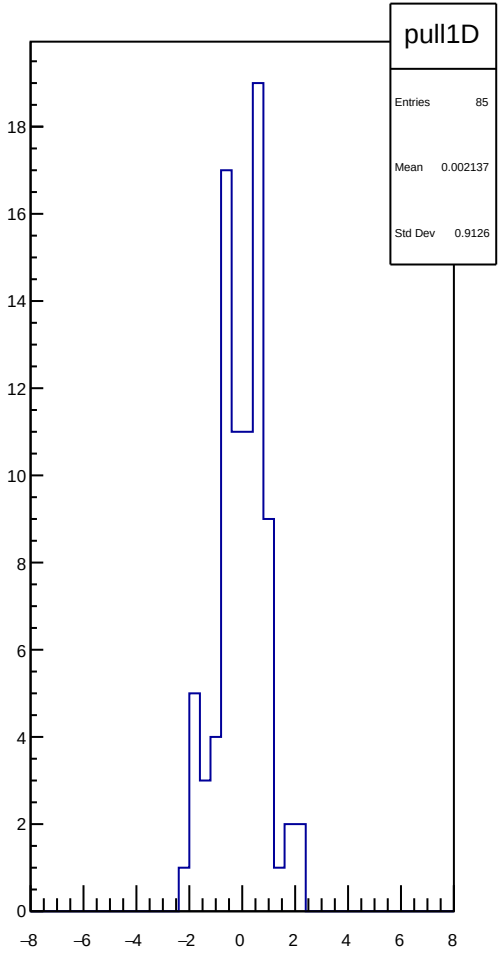

dit_asym_us_avg_rms vs run
χ² / ndf 450.6 / 84
p0 790.1 ± 0.6215
840
820
800
780
760

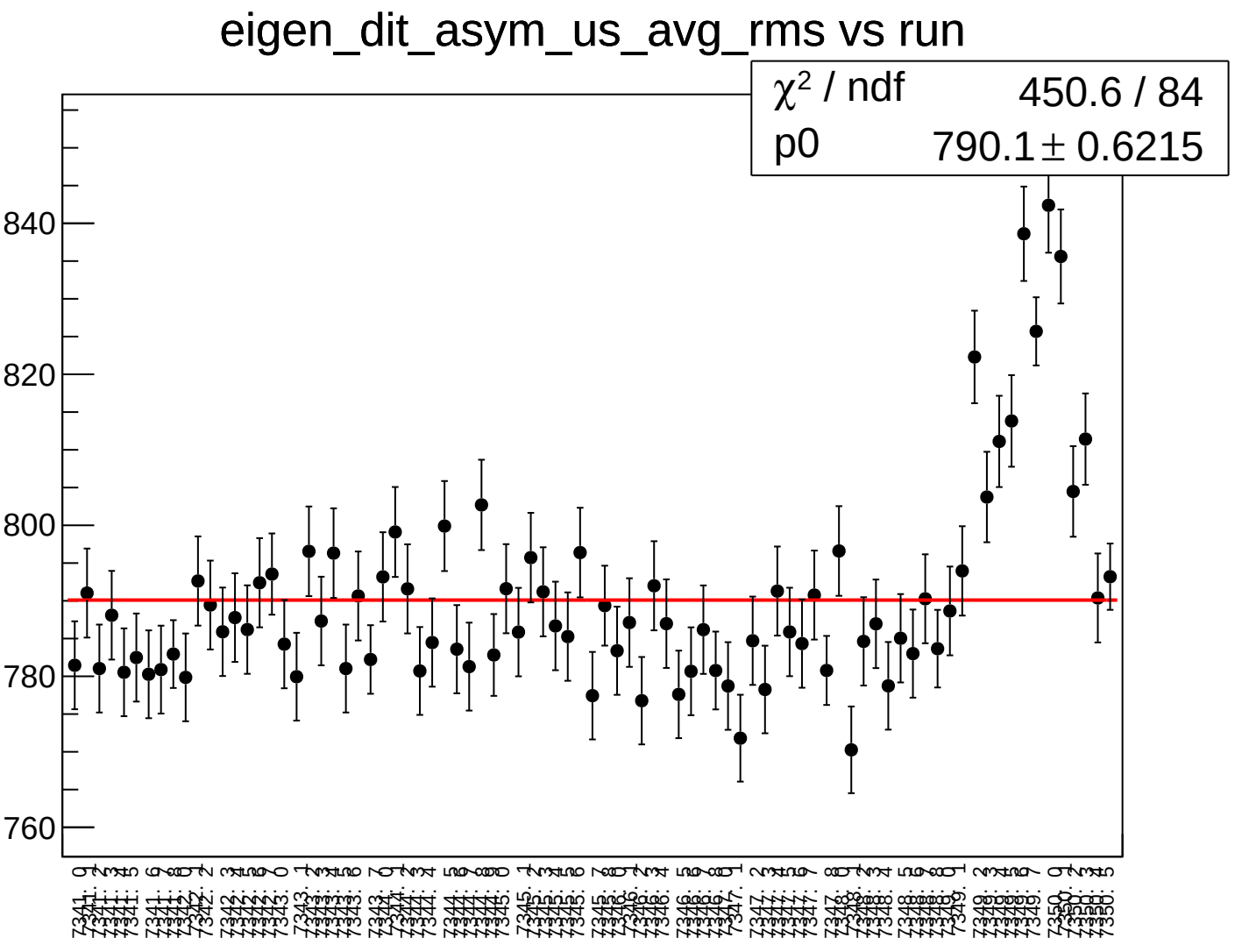

asym_us_avg_dit_correction_mean vs run
χ² / ndf 73.27 / 84
p0 −1145 ± 2358
pull
Entries 85
Mean −114.1
Std Dev 0

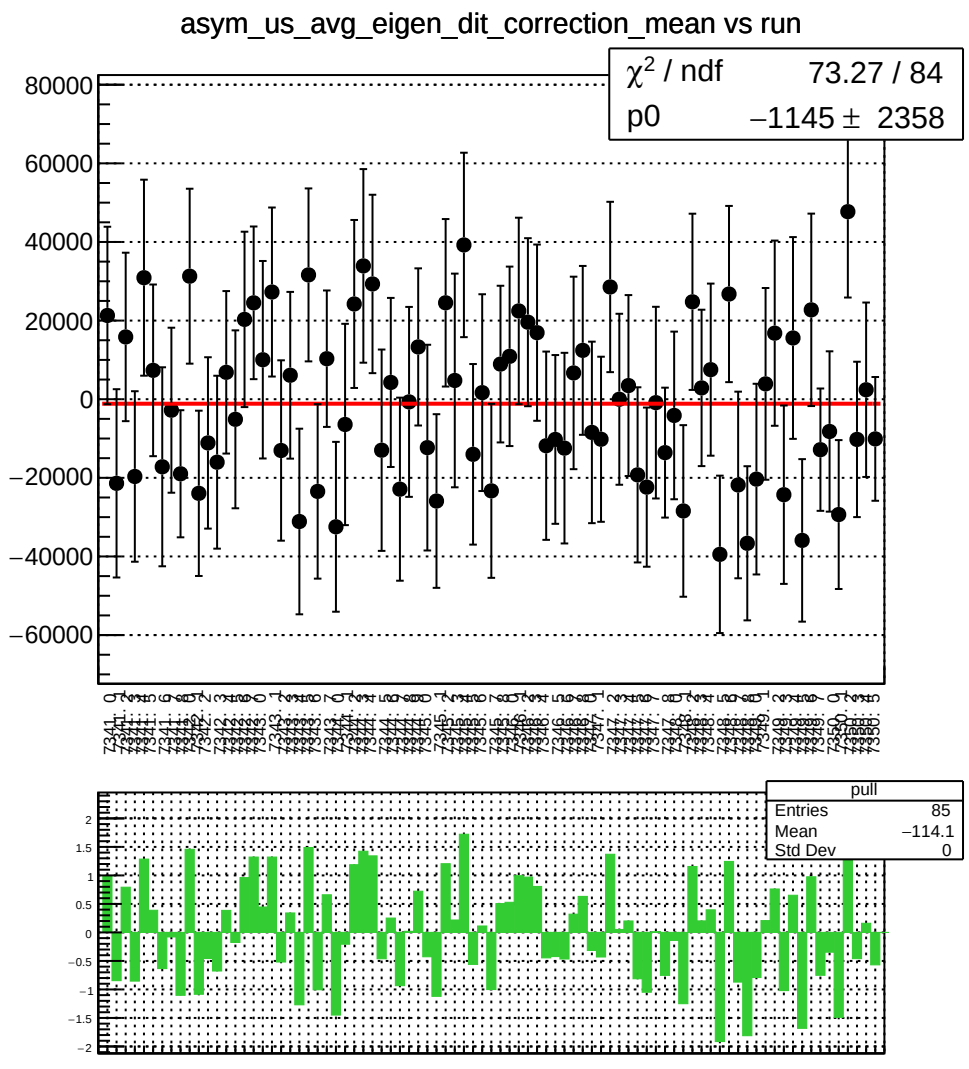

pull1D
Entries 85
Mean 0.02097
Std Dev 0.9282

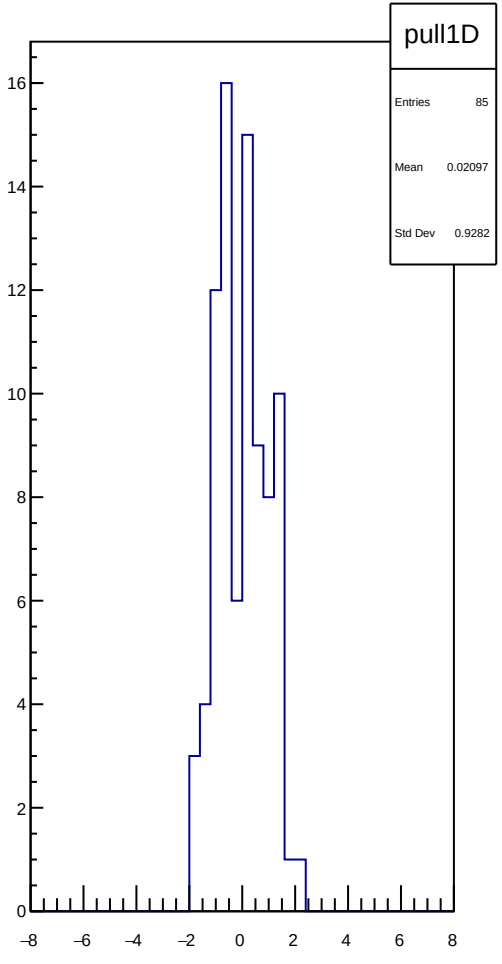

asym_us_avg_dit_correction_rms vs run
χ² / ndf 7567 / 84
p0 2115 ± 1.667
2600
2500
2400
2300
2200
2100
2000
1900
1800

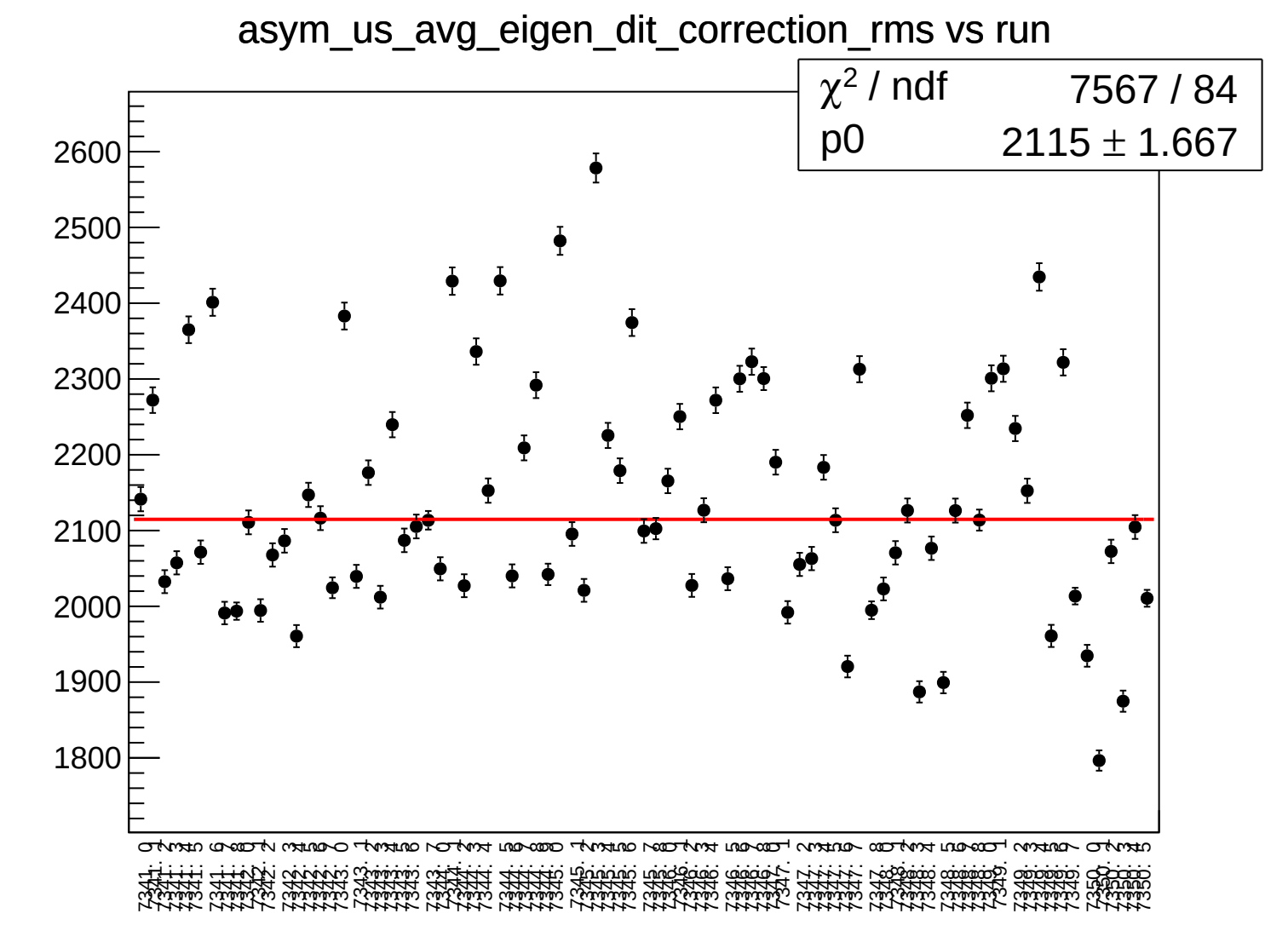

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 70.8 / 84
p0 1392 ± 879
pull
Entries 85
Mean 1129
Std Dev 0

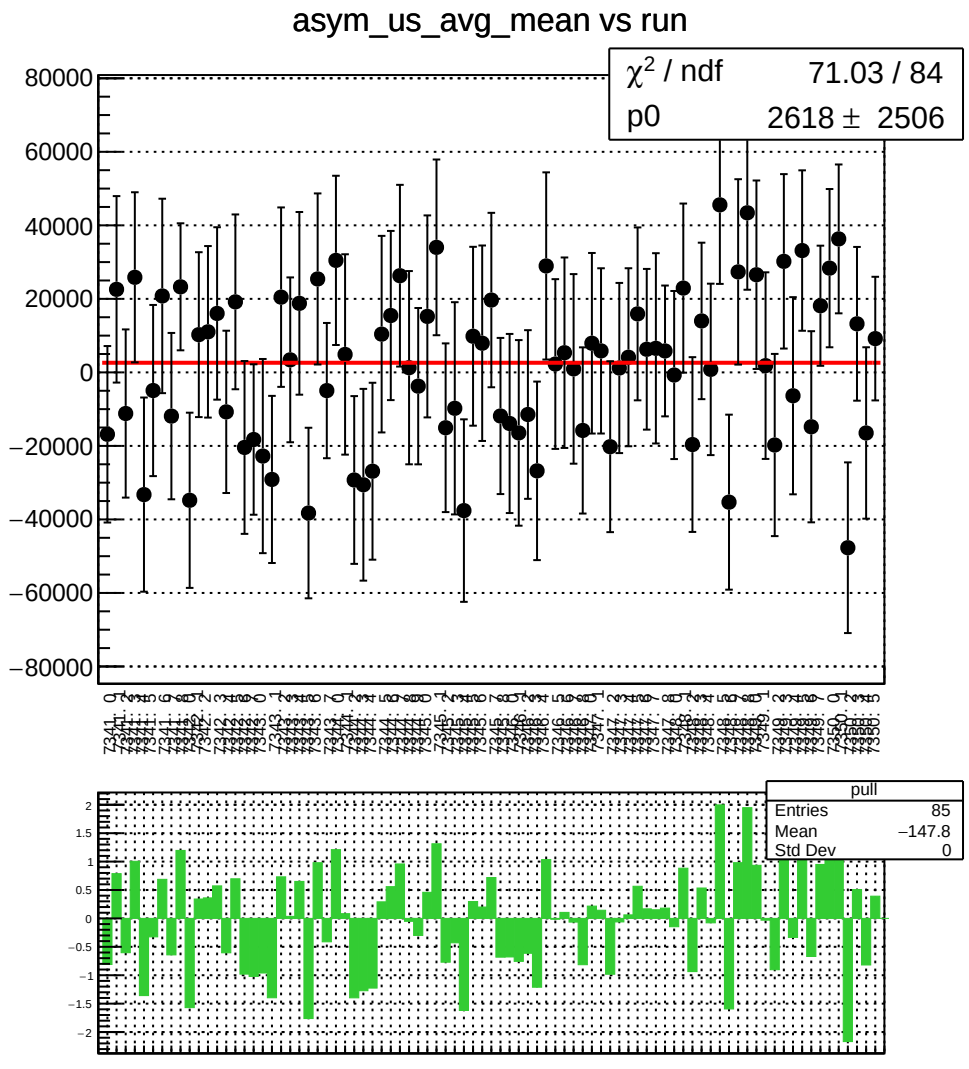

pull1D
Entries 85
Mean 0.002137
Std Dev 0.9126

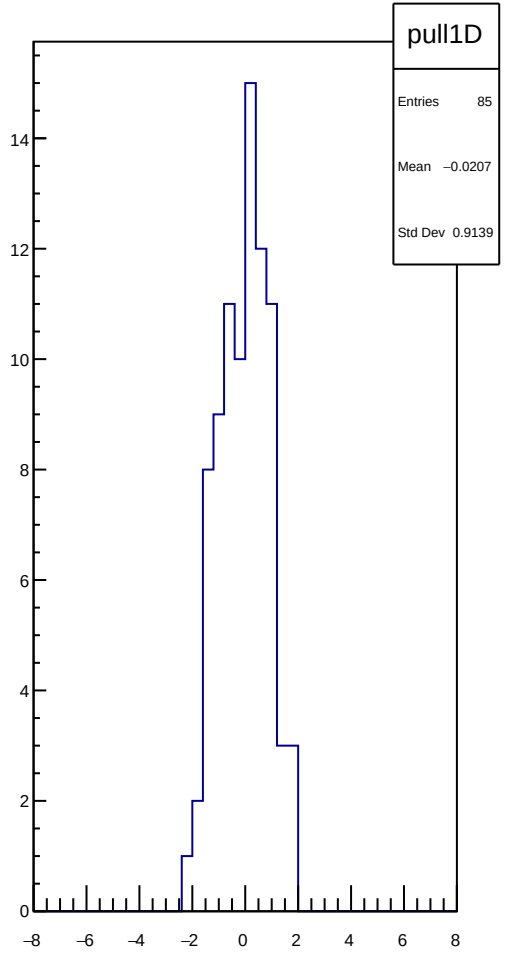

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 450.6 / 84
p0 790.1 ± 0.6215
840
820
800
780
760

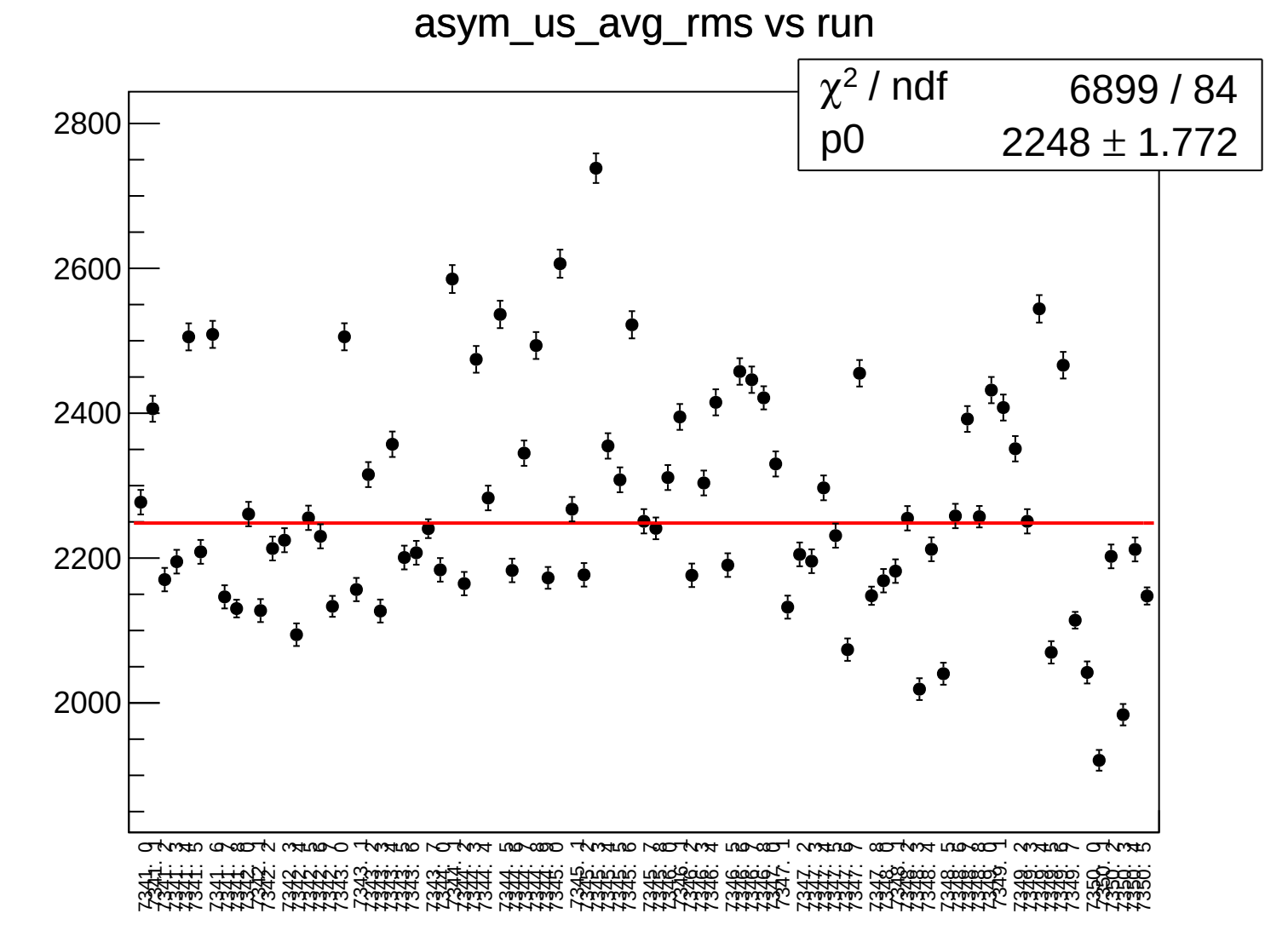

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.27 / 84
p0 −1145 ± 2358
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −114.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

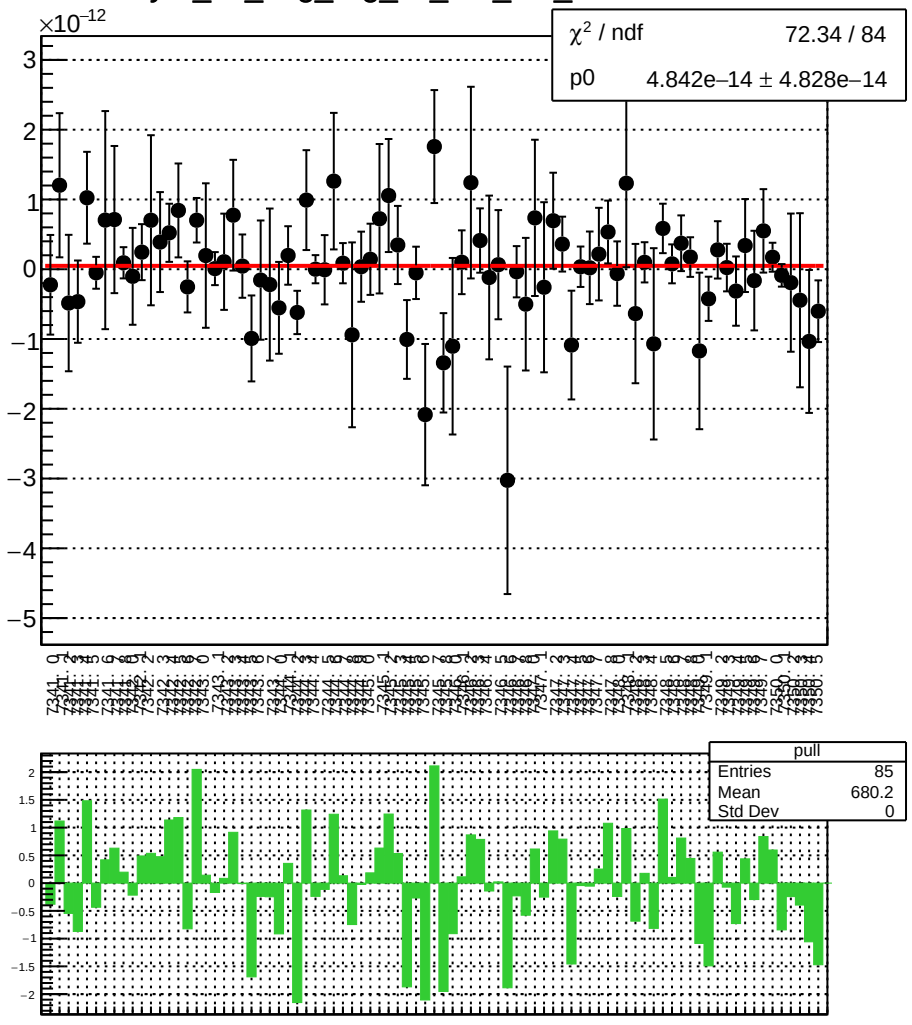

pull1D
Entries 85
Mean 0.02097
Std Dev 0.9282
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

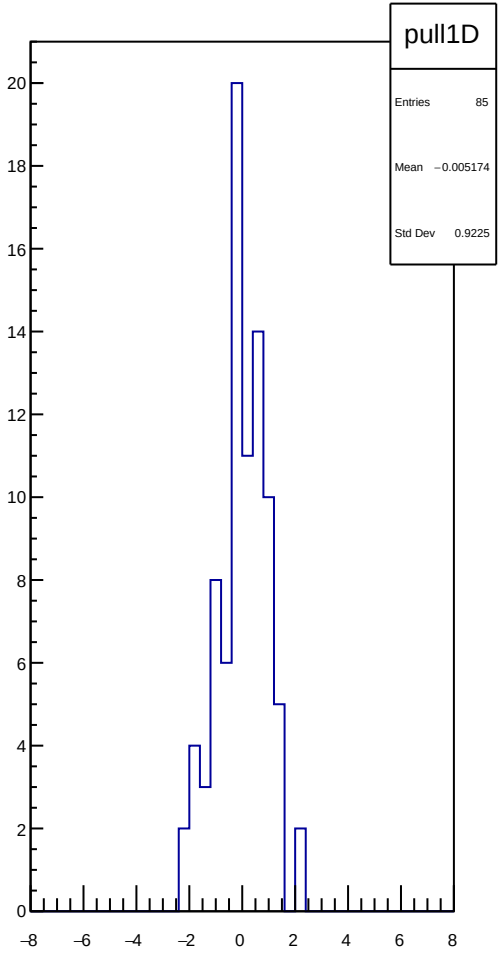

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 7567 / 84
p0 2115 ± 1.667
2600
2500
2400
2300
2200
2100
2000
1900
1800

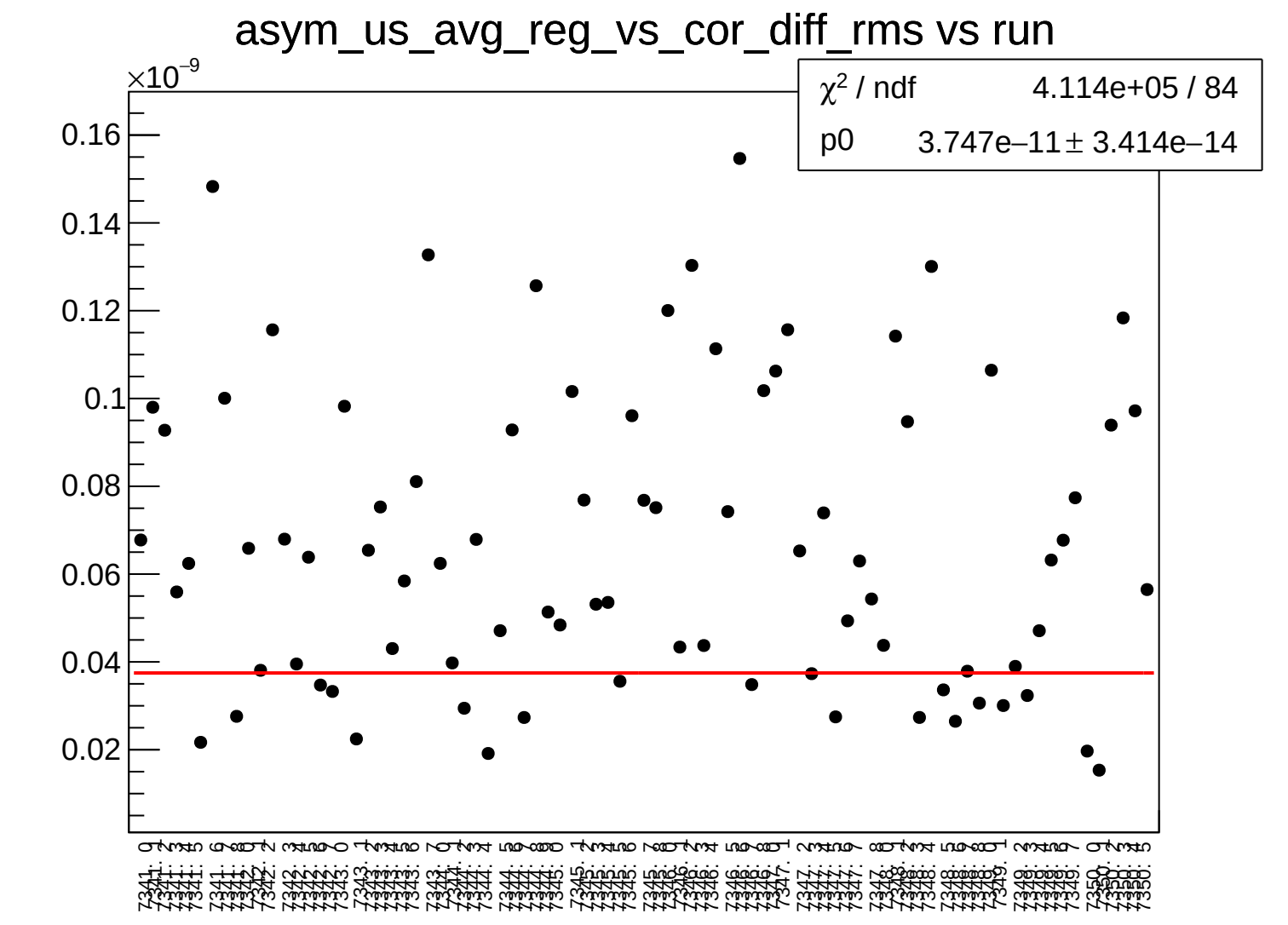

asym_us_avg_mean vs run
χ² / ndf 71.03 / 84
p0 2618 ± 2506
pull
Entries 85
Mean −147.8
Std Dev 0

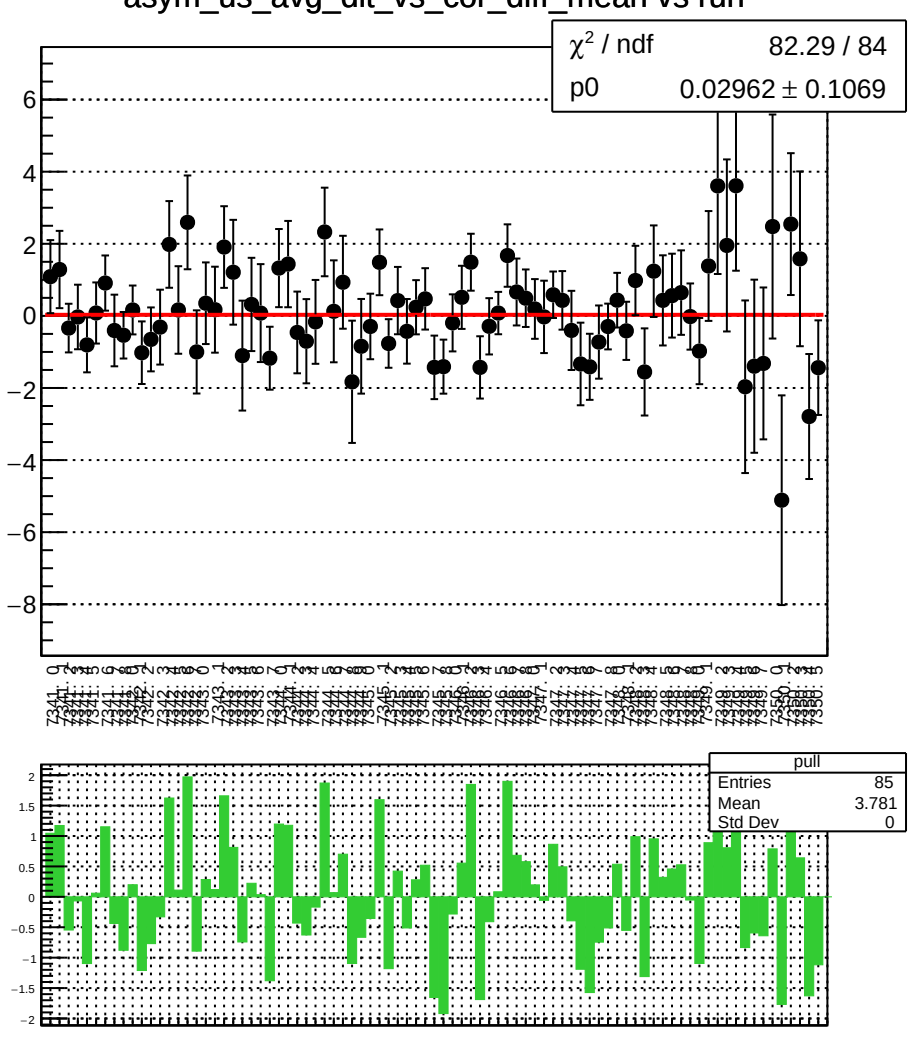

pull1D
Entries 85
Mean −0.0207
Std Dev 0.9139

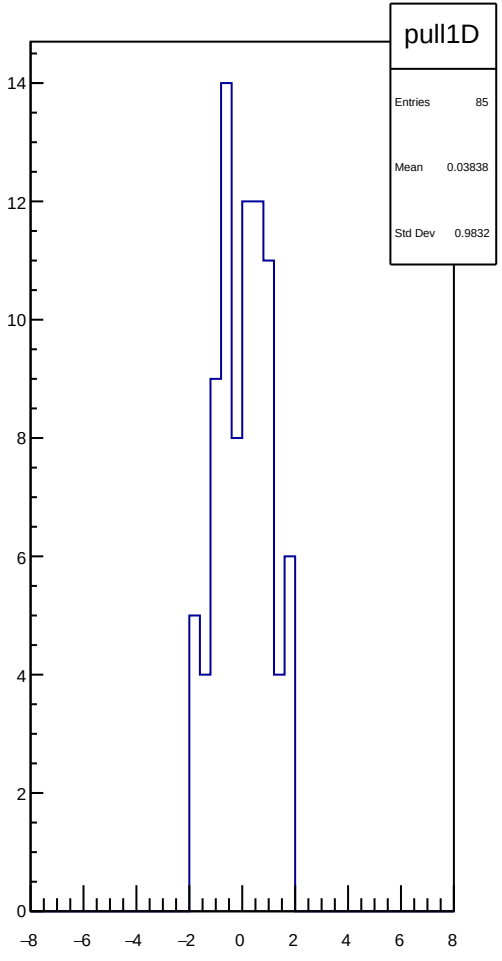

asym_us_avg_rms vs run
χ^2 / ndf 6899 / 84
p0 2248 ± 1.772
2800
2600
2400
2200
2000

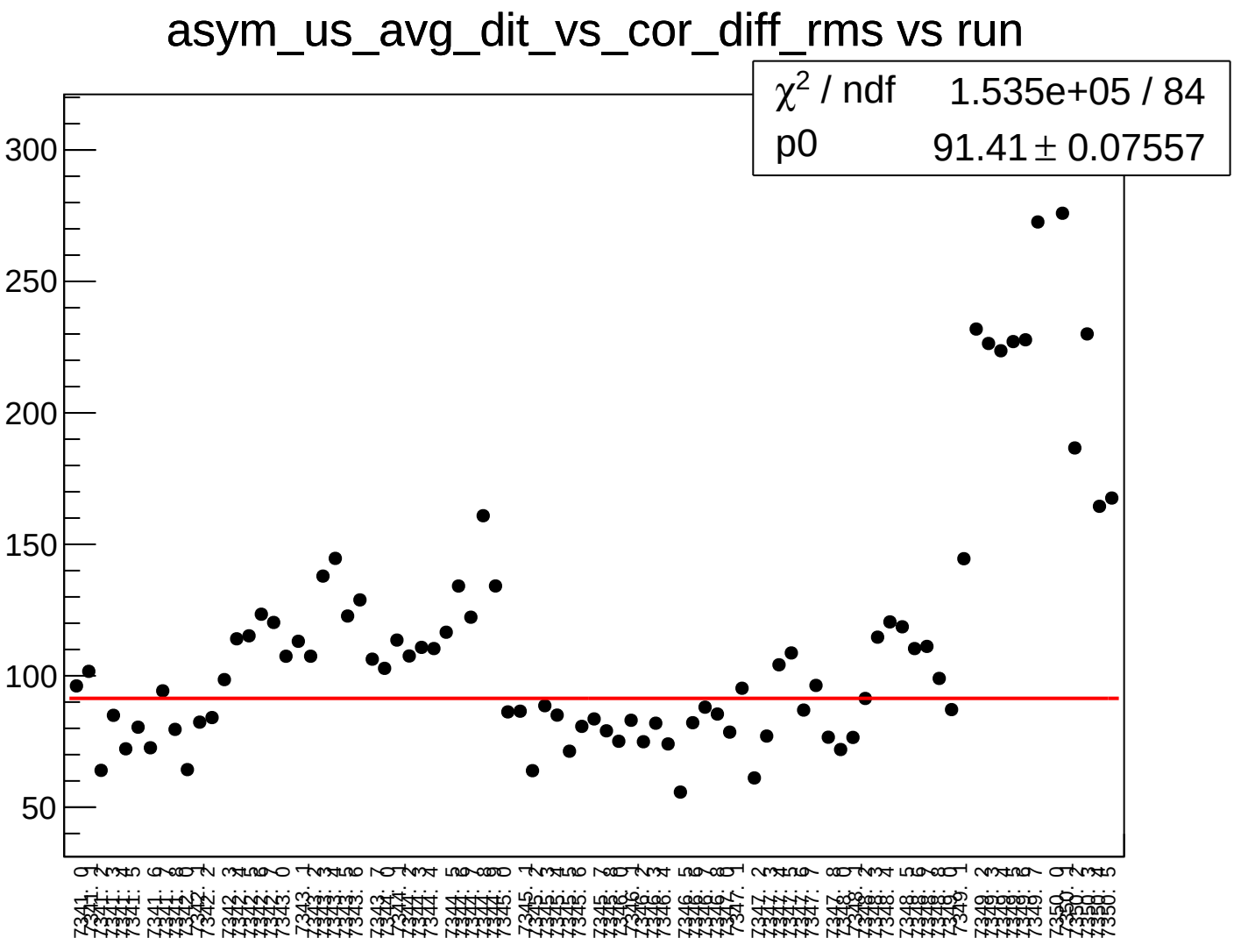

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.34 / 84
p0 4.842e−14 ± 4.828e−14
pull
Entries 85
Mean 680.2
Std Dev 0

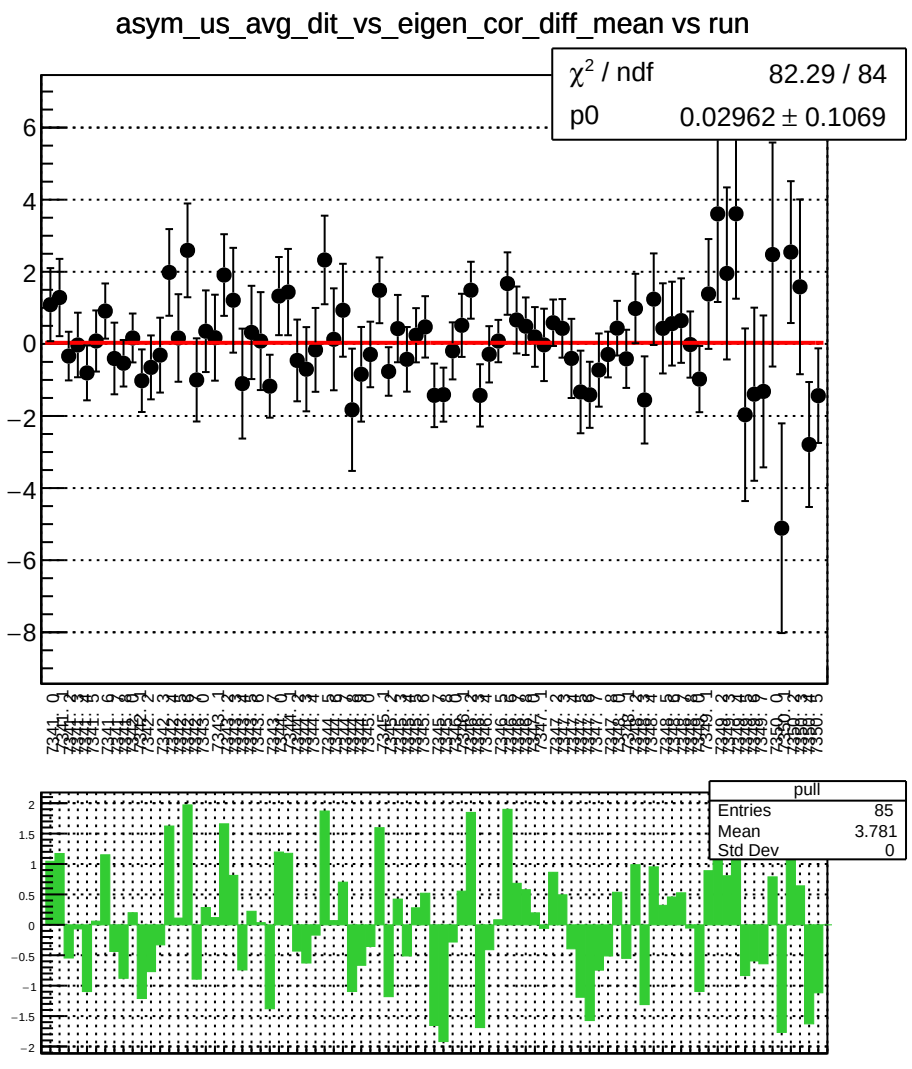

pull1D
Entries 85
Mean −0.005174
Std Dev 0.9225

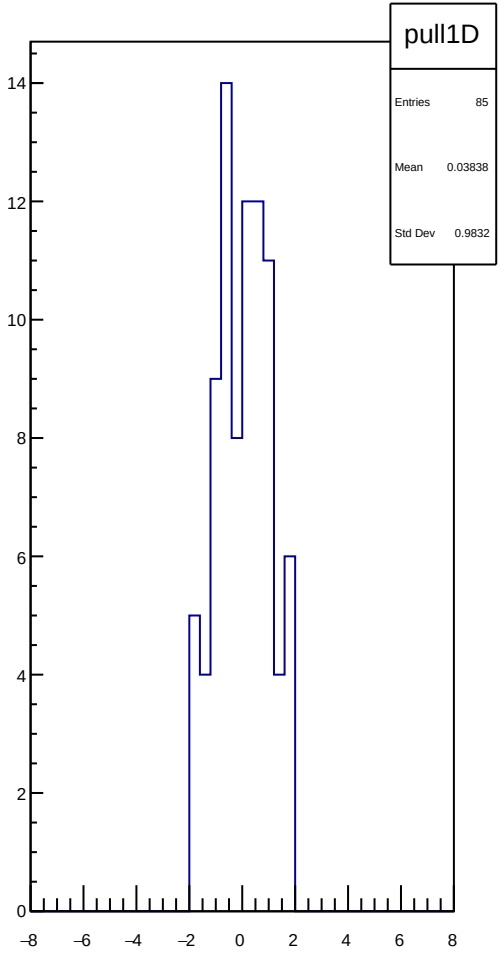

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.114e+05 / 84
p0 3.747e−11 ± 3.414e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

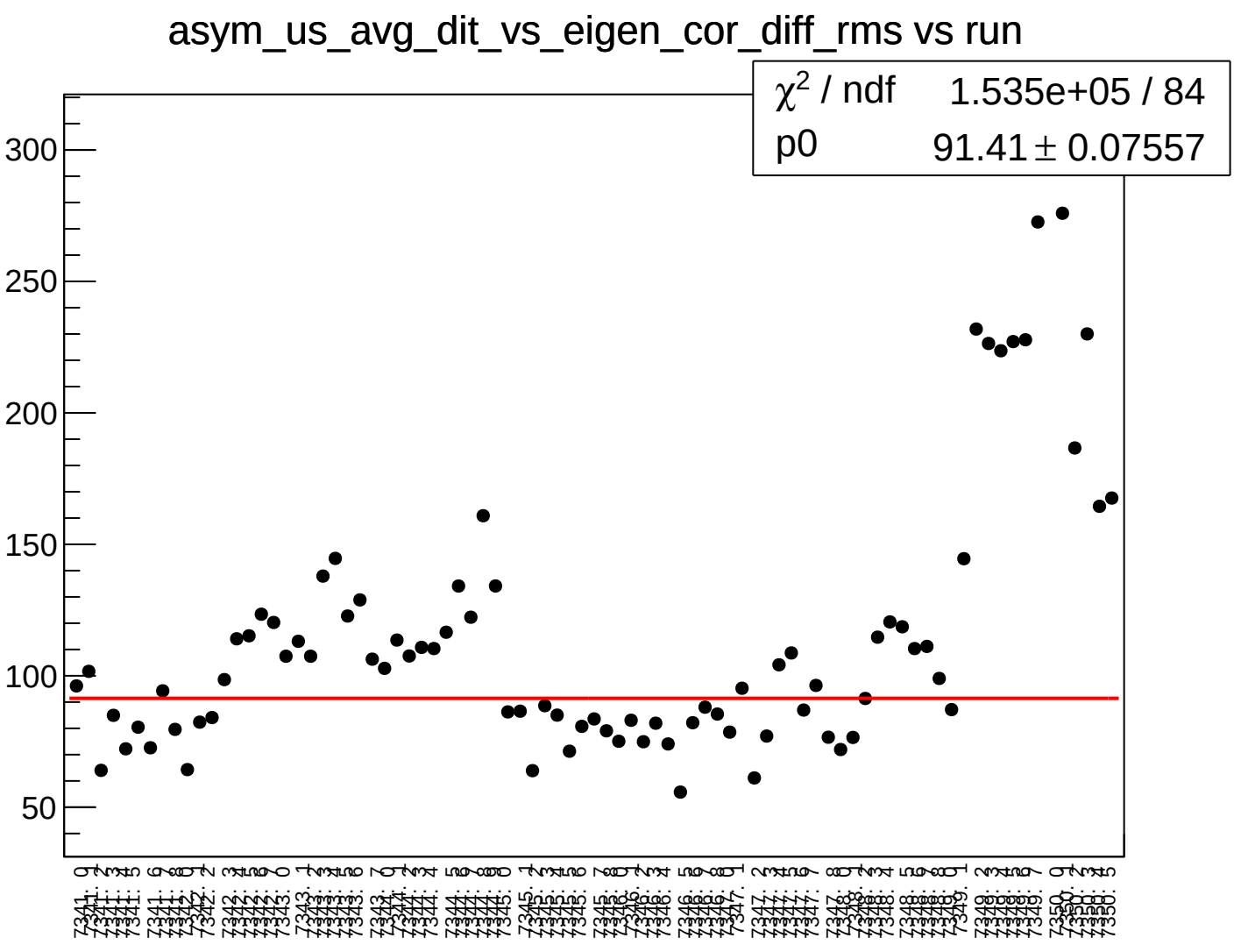

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.29 / 84
p0 0.02962 ± 0.1069
pull
Entries 85
Mean 3.781
Std Dev 0

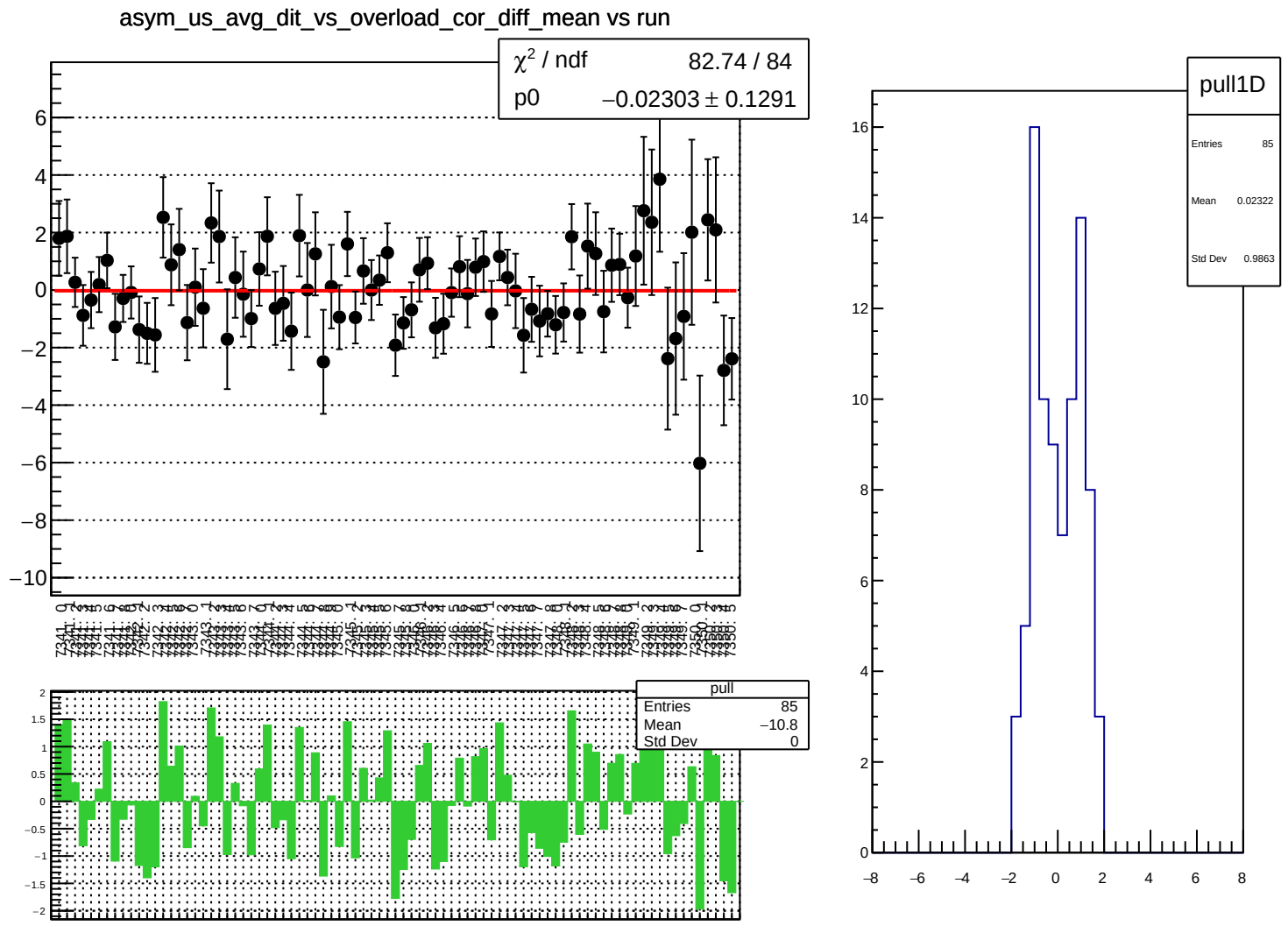

pull1D
Entries 85
Mean 0.03838
Std Dev 0.9832

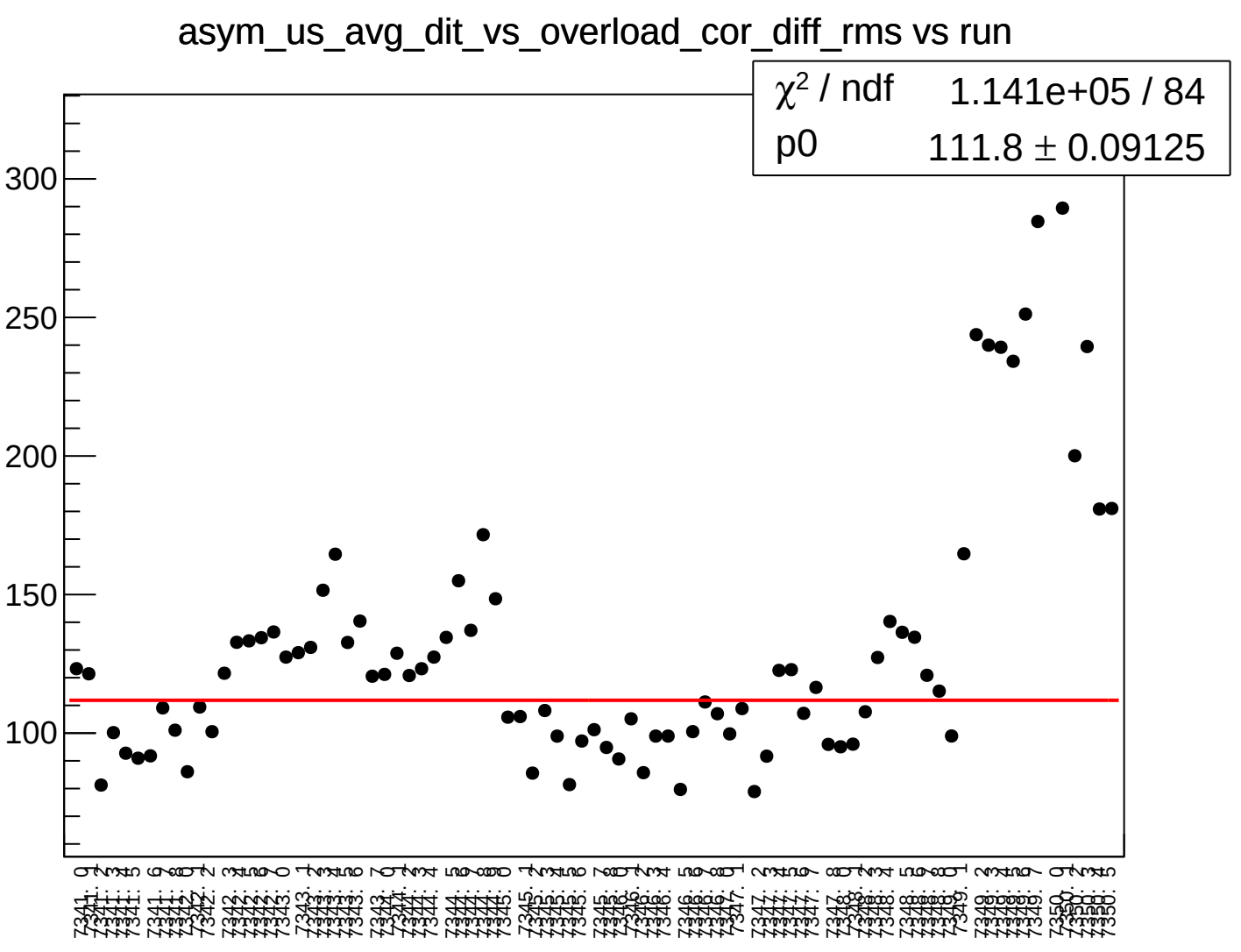

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.535e+05 / 84
p0 91.41 ± 0.07557
300
250
200
150
100
50

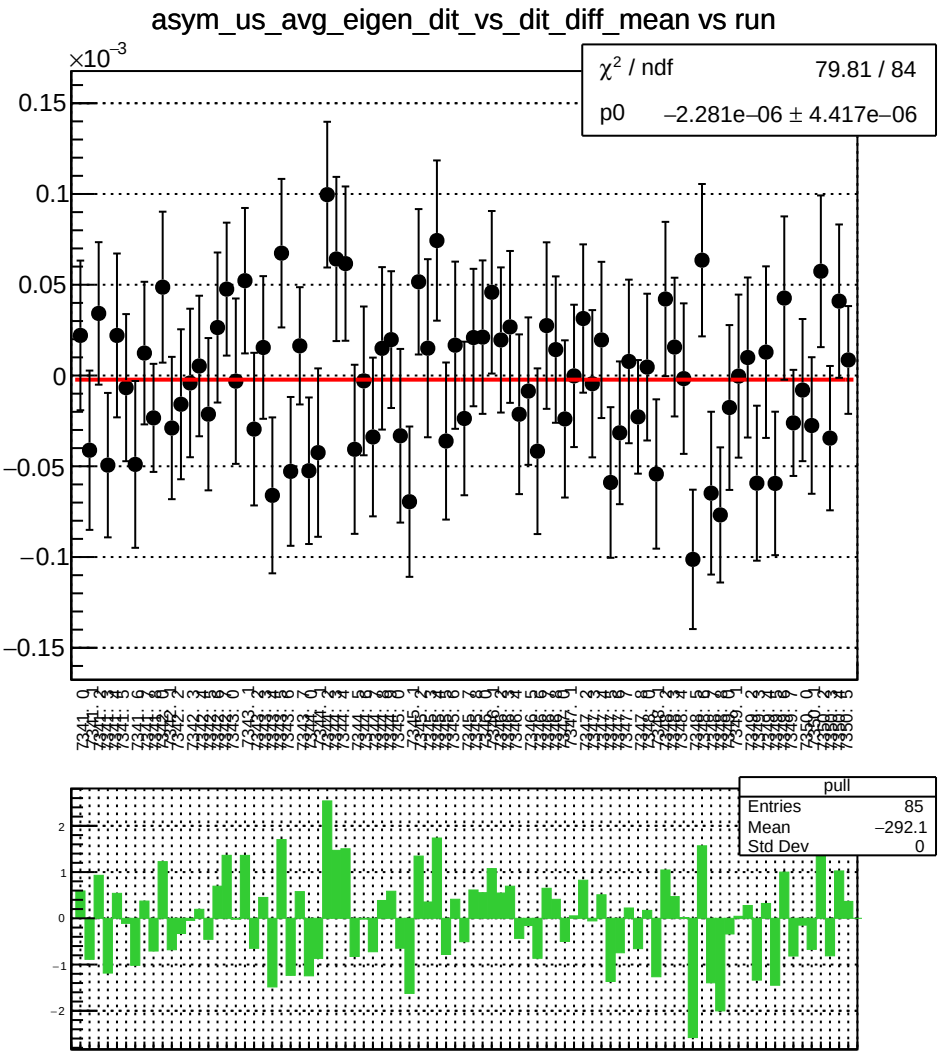

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.29 / 84
p0 0.02962 ± 0.1069
pull
Entries 85
Mean 3.781
Std Dev 0

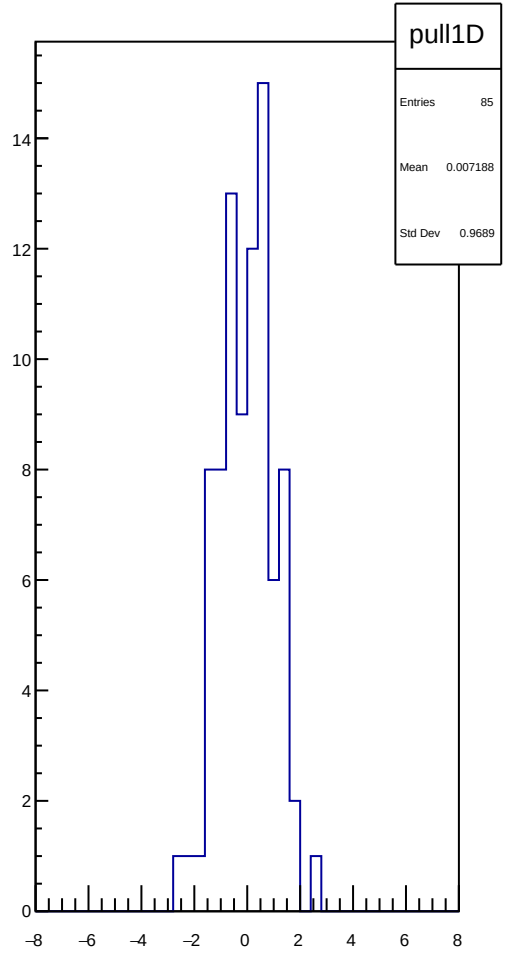

pull1D
Entries 85
Mean 0.03838
Std Dev 0.9832

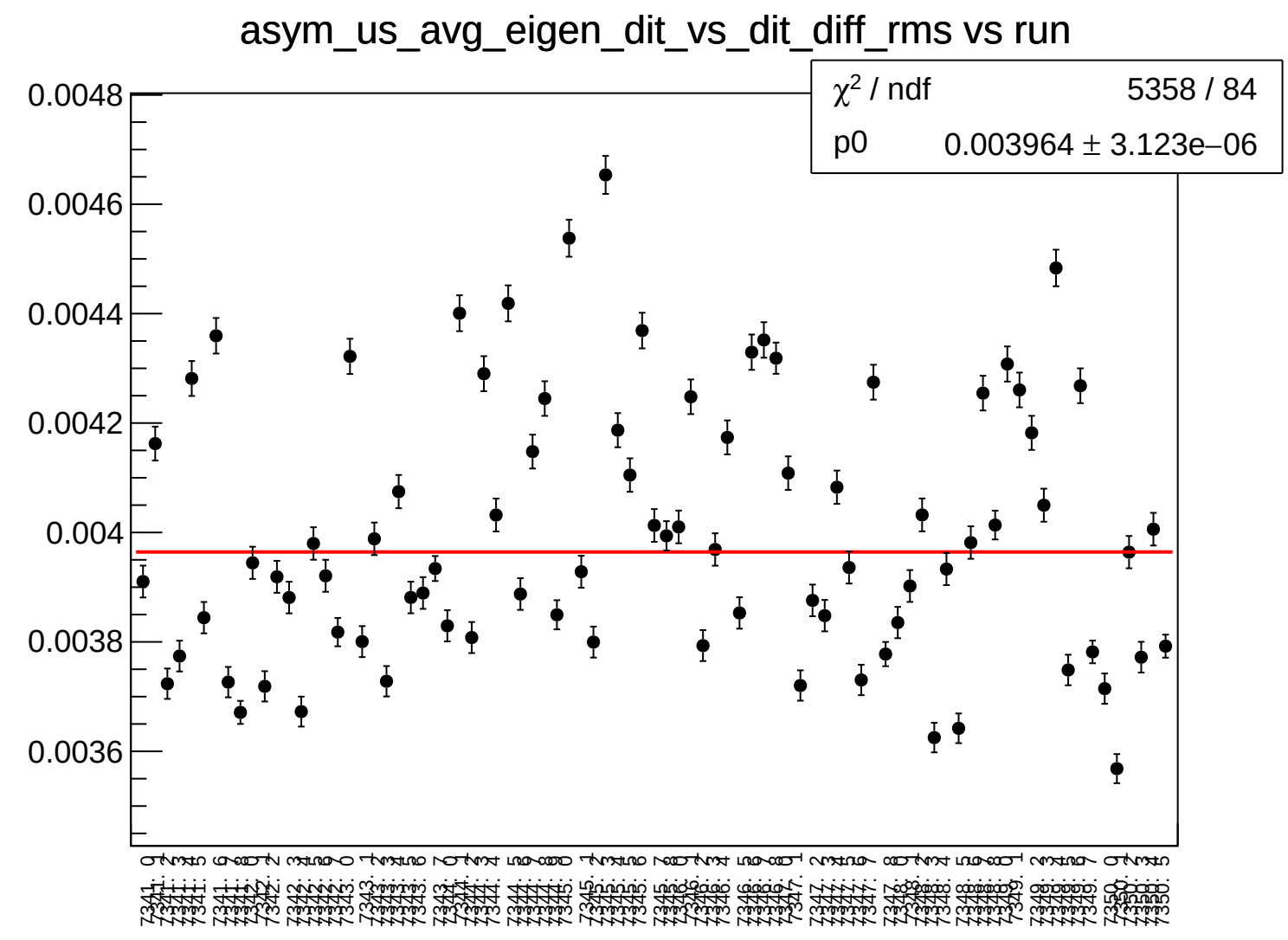

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.535e+05 / 84
p0 91.41 ± 0.07557
300
250
200
150
100
50

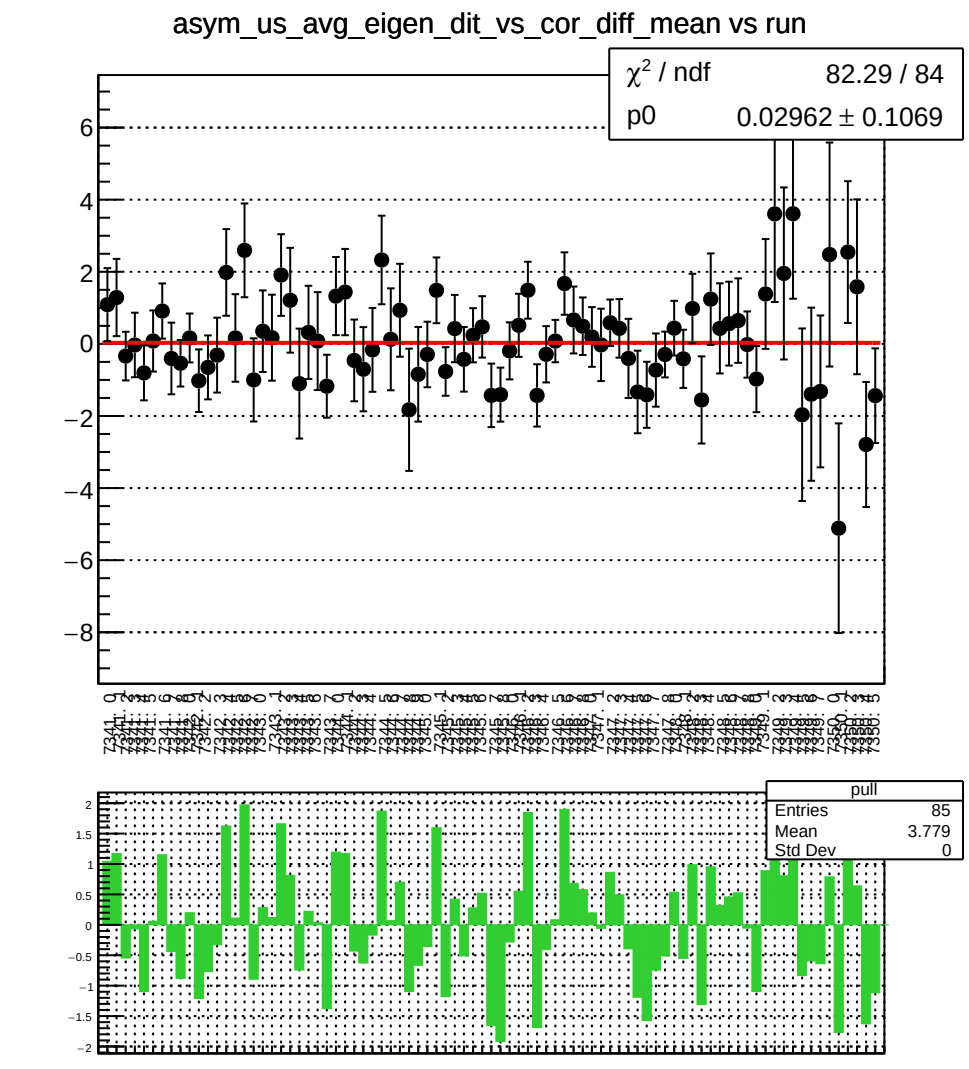

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 82.74 / 84
p0 −0.02303 ± 0.1291
pull
Entries 85
Mean −10.8
Std Dev 0
pull1D
Entries 85
Mean 0.02322
Std Dev 0.9863

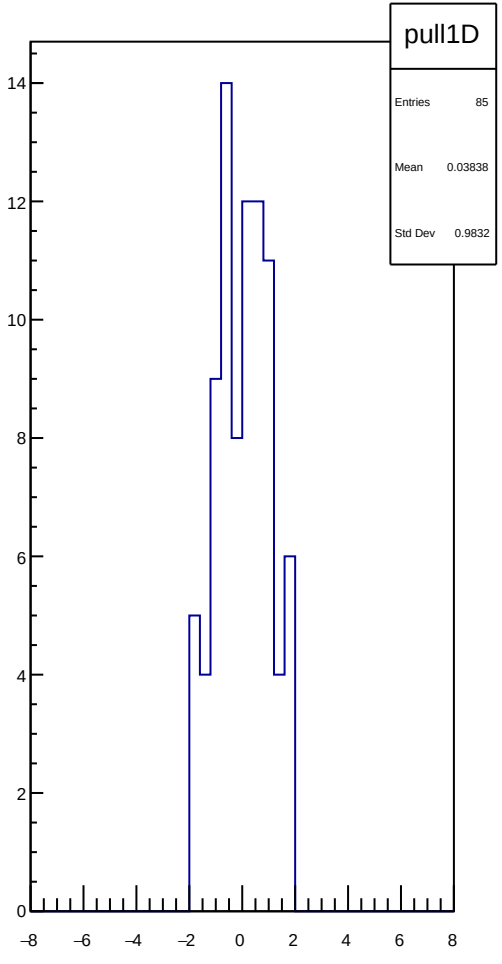

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.141e+05 / 84
p0 111.8 ± 0.09125
300
250
200
150
100

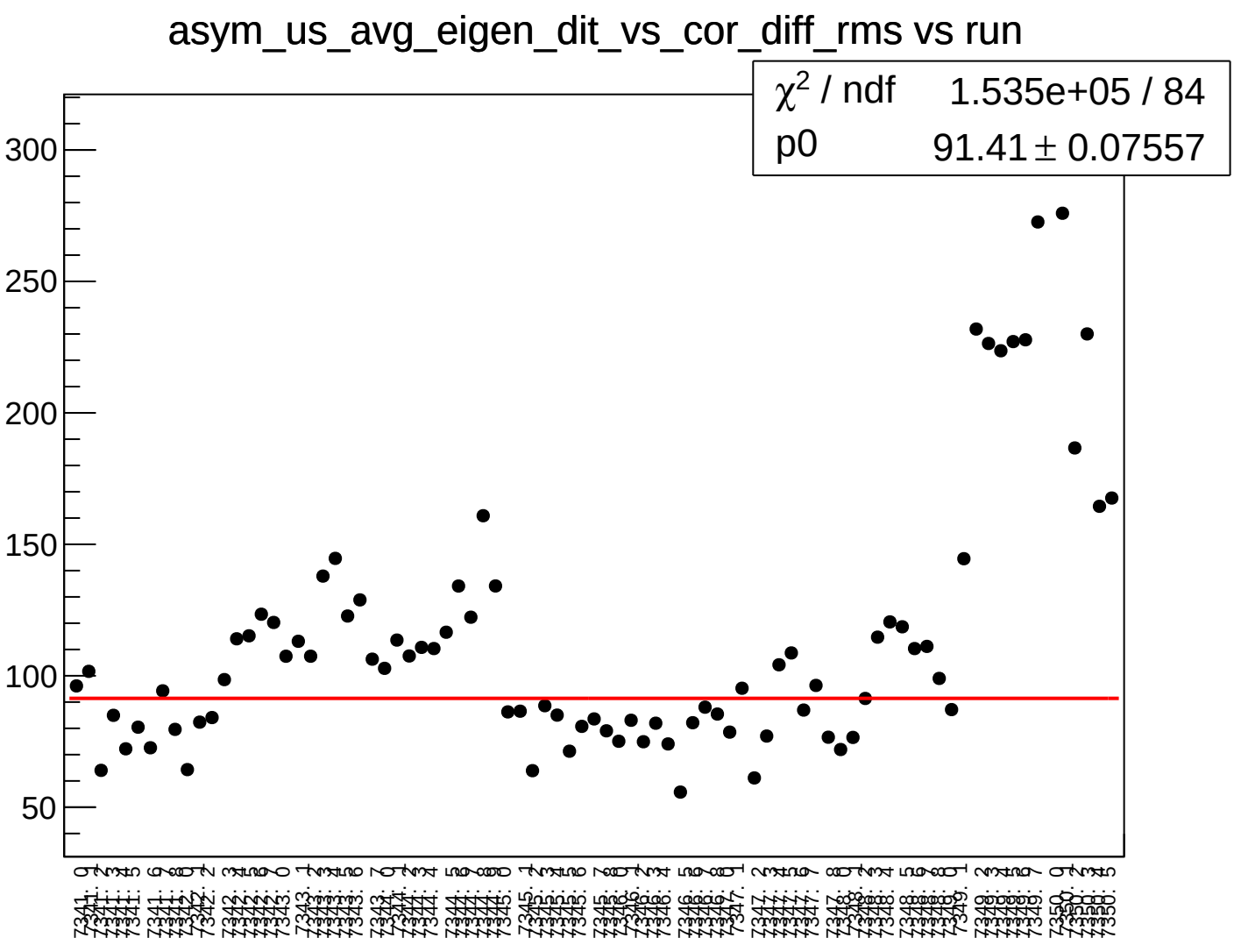

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.81 / 84
p0 −2.281e−06 ± 4.417e−06
pull
Entries 85
Mean −292.1
Std Dev 0

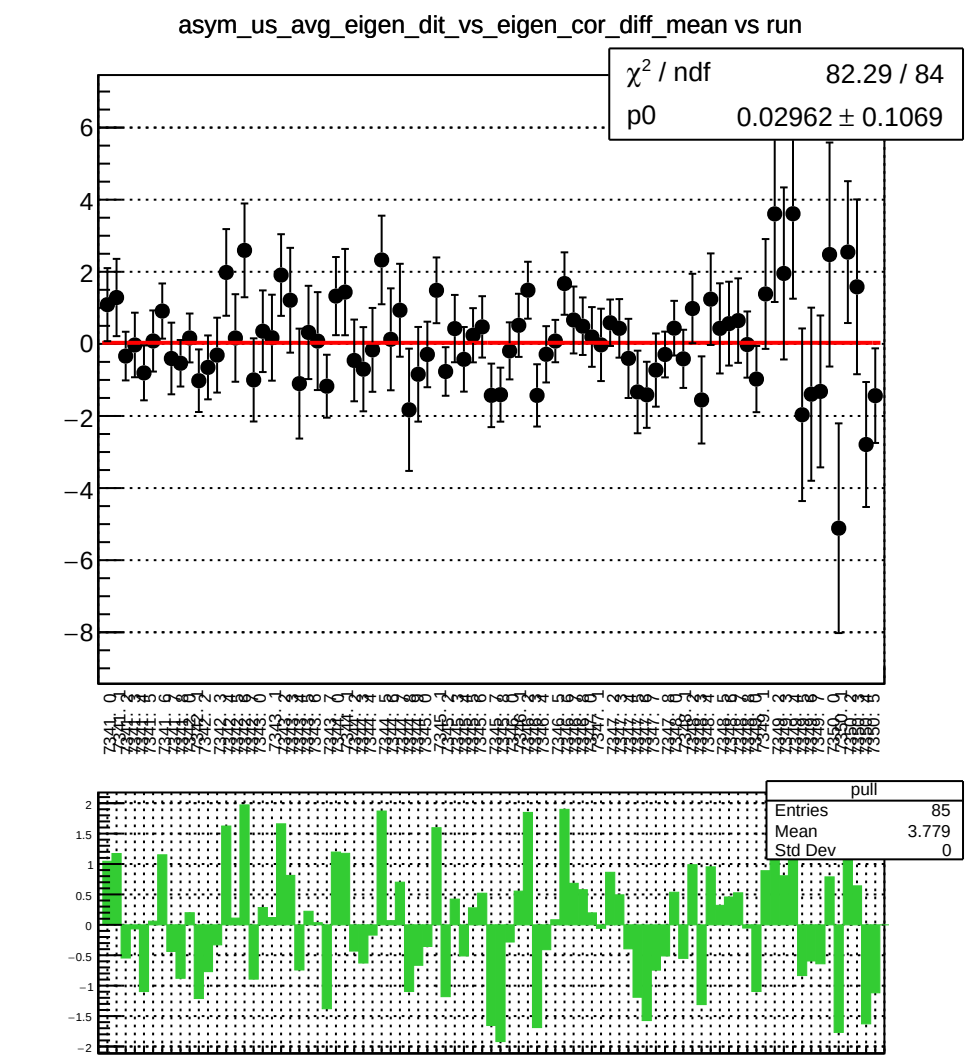

pull1D
Entries 85
Mean 0.007188
Std Dev 0.9689

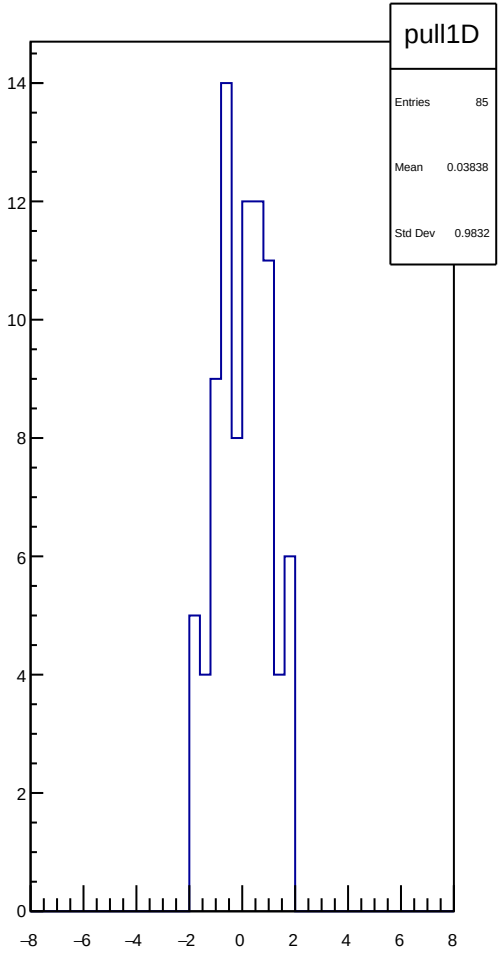

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5358 / 84
p0 0.003964 ± 3.123e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

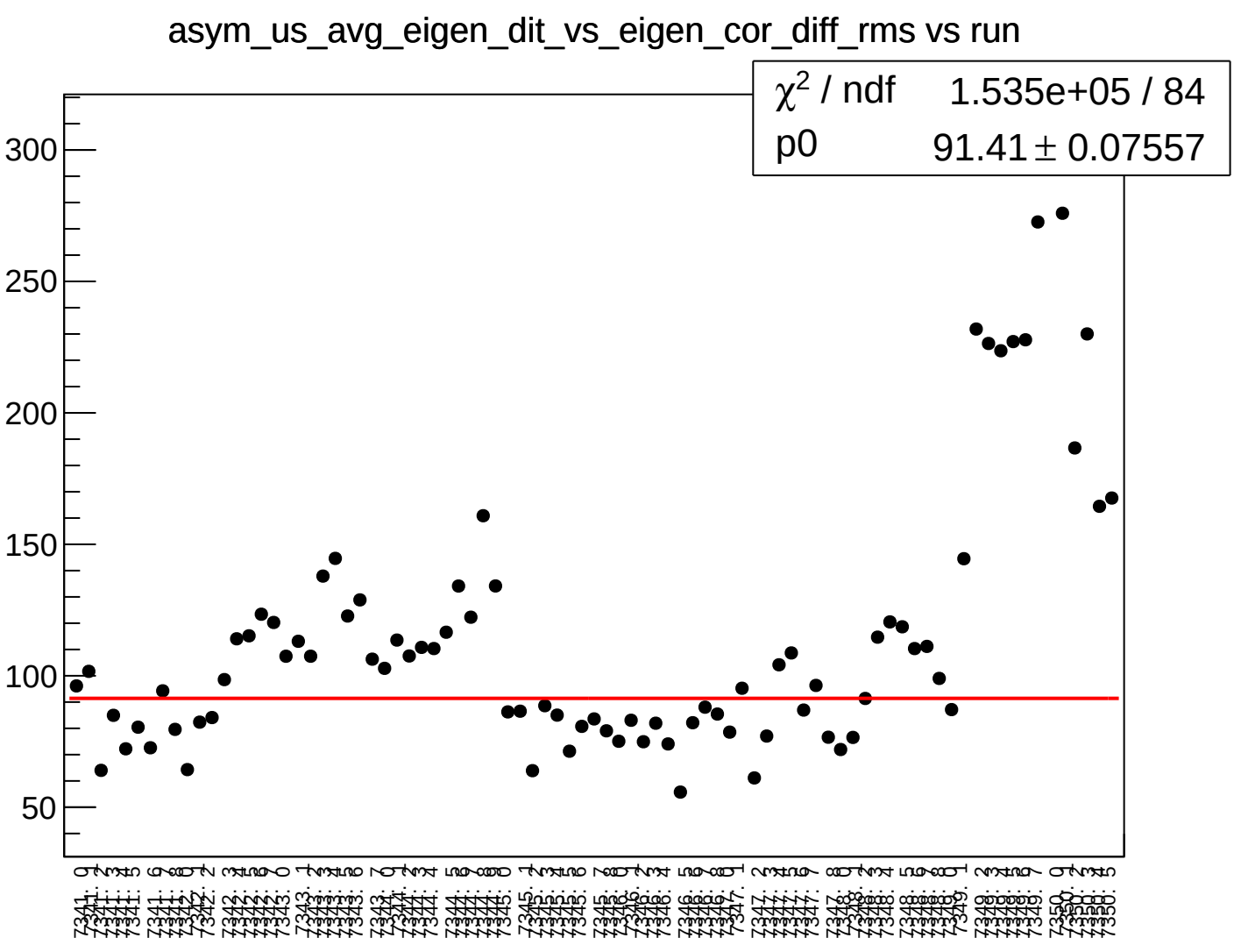

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.29 / 84
p0 0.02962 ± 0.1069
pull
Entries 85
Mean 3.779
Std Dev 0

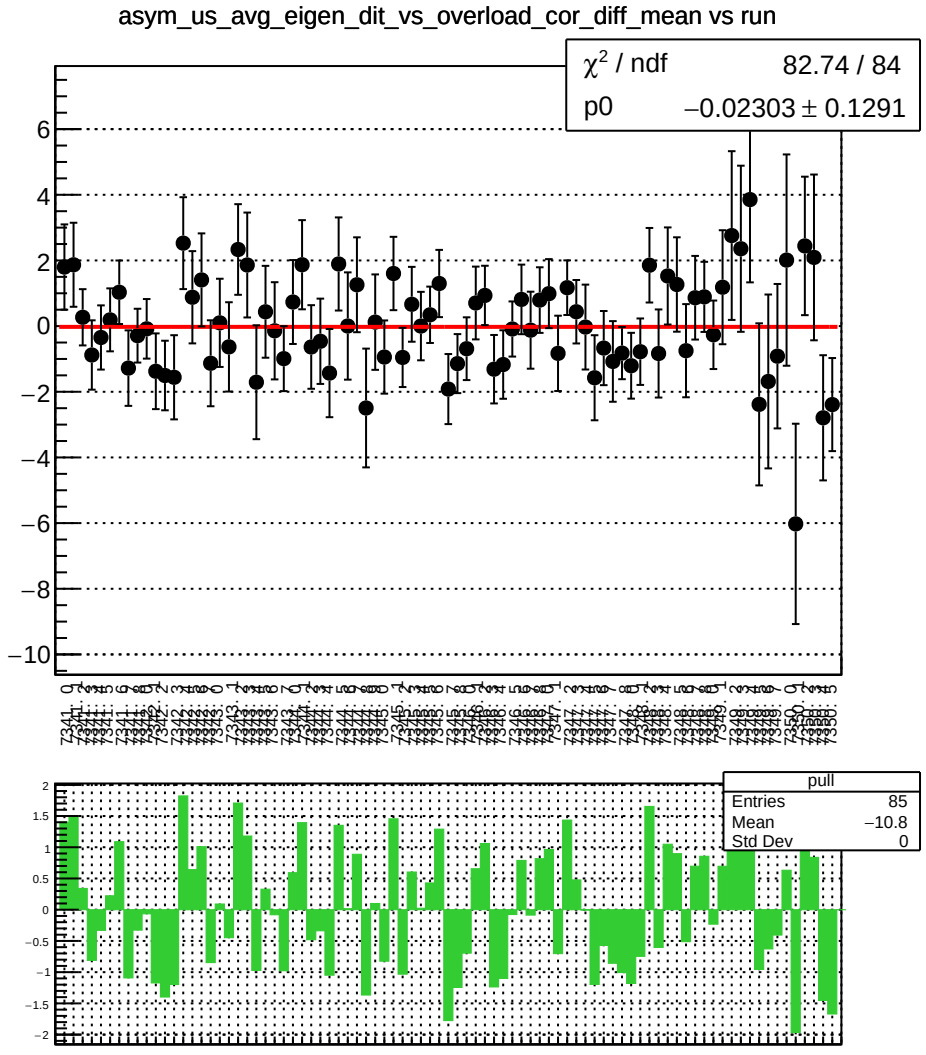

pull1D
Entries 85
Mean 0.03838
Std Dev 0.9832

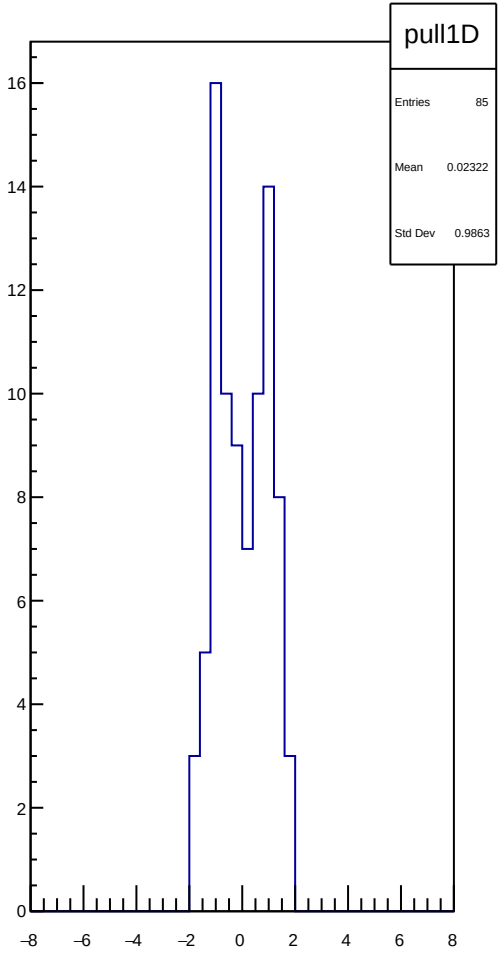

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.535e+05 / 84
p0 91.41 ± 0.07557
300
250
200
150
100
50

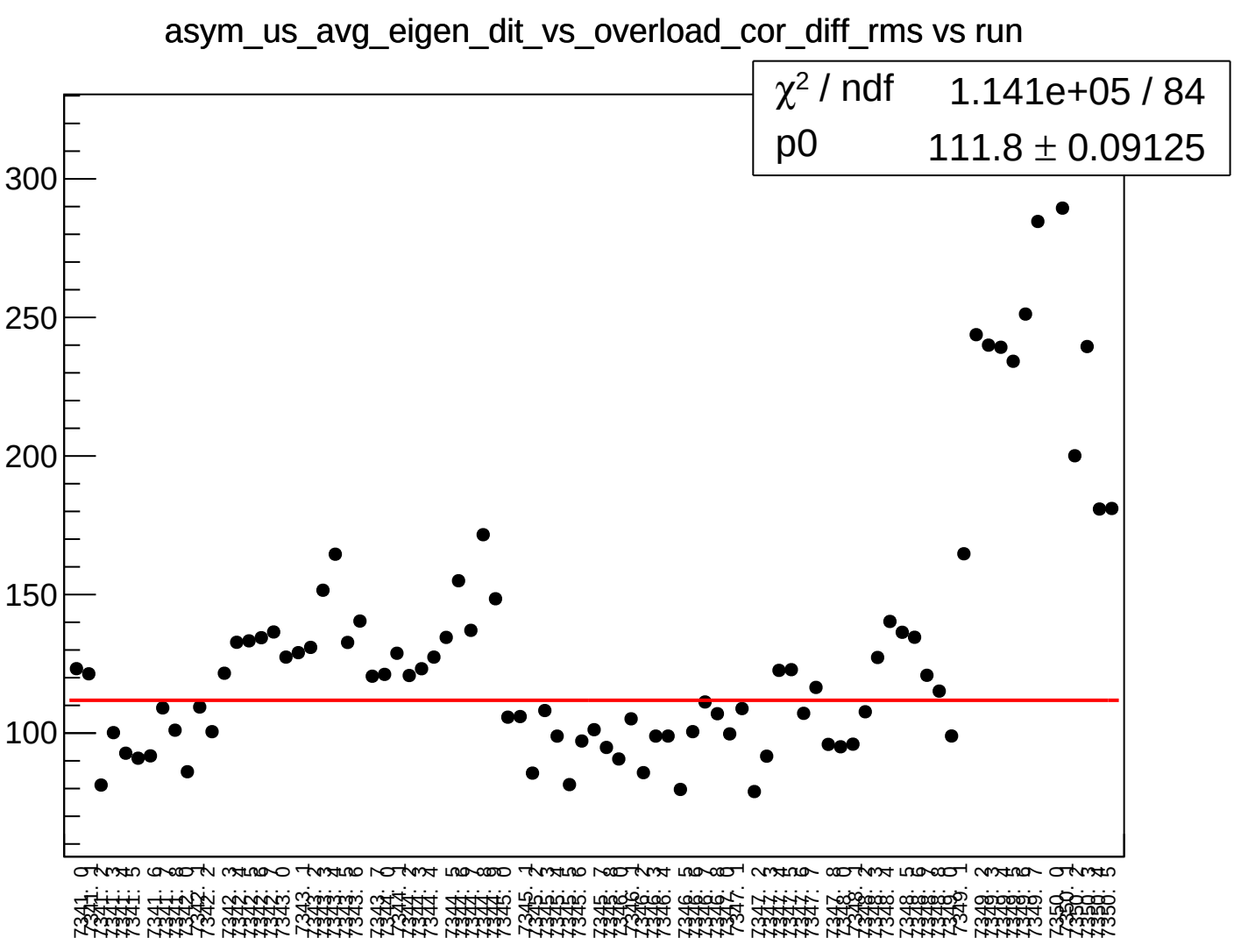

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.29 / 84
p0 0.02962 ± 0.1069
pull
Entries 85
Mean 3.779
Std Dev 0

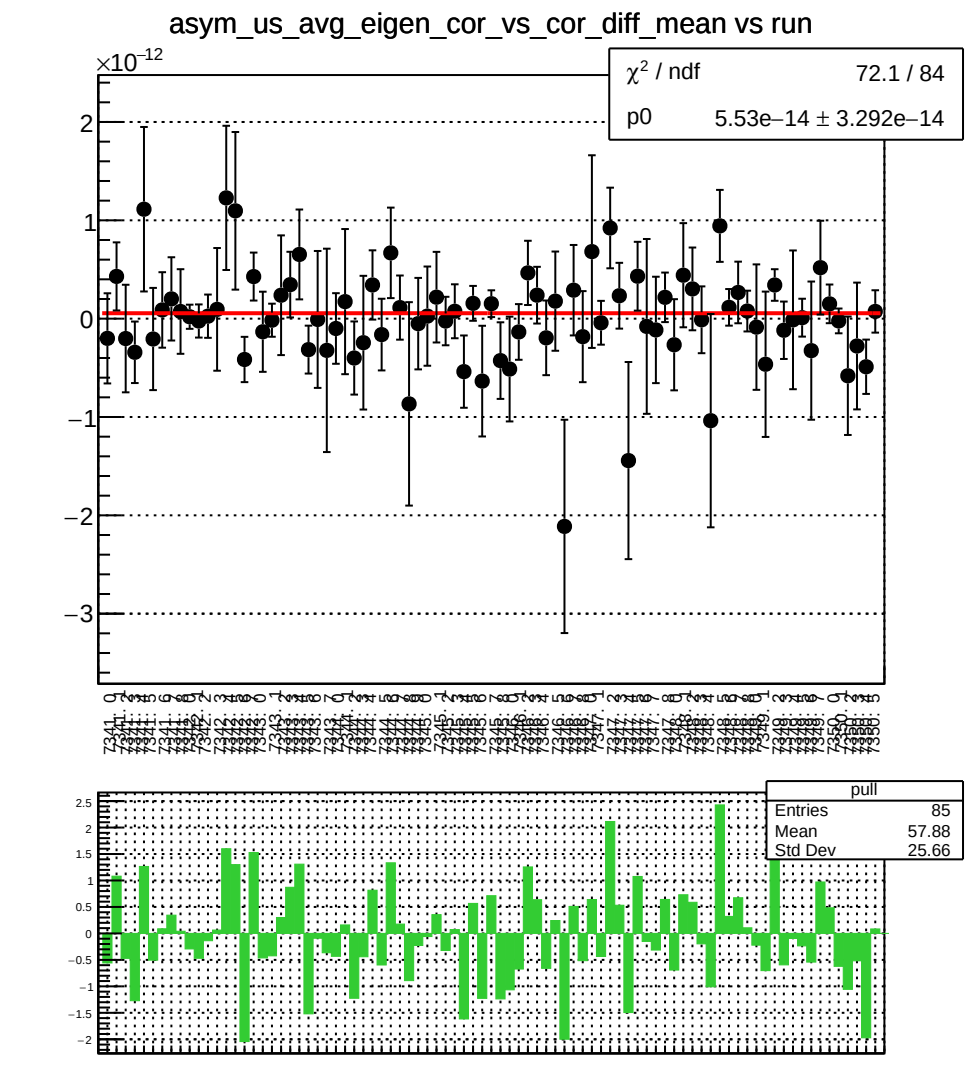

pull1D
Entries 85
Mean 0.03838
Std Dev 0.9832

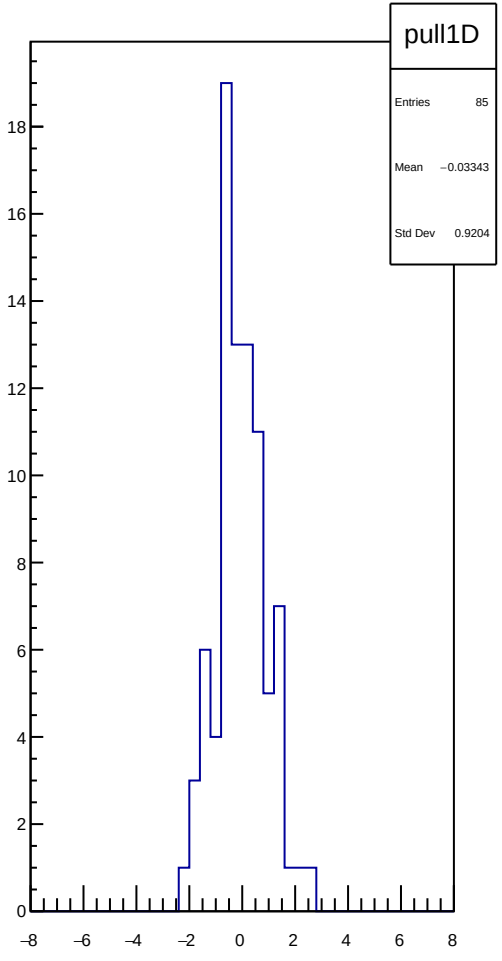

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.535e+05 / 84
p0 91.41 ± 0.07557
300
250
200
150
100
50

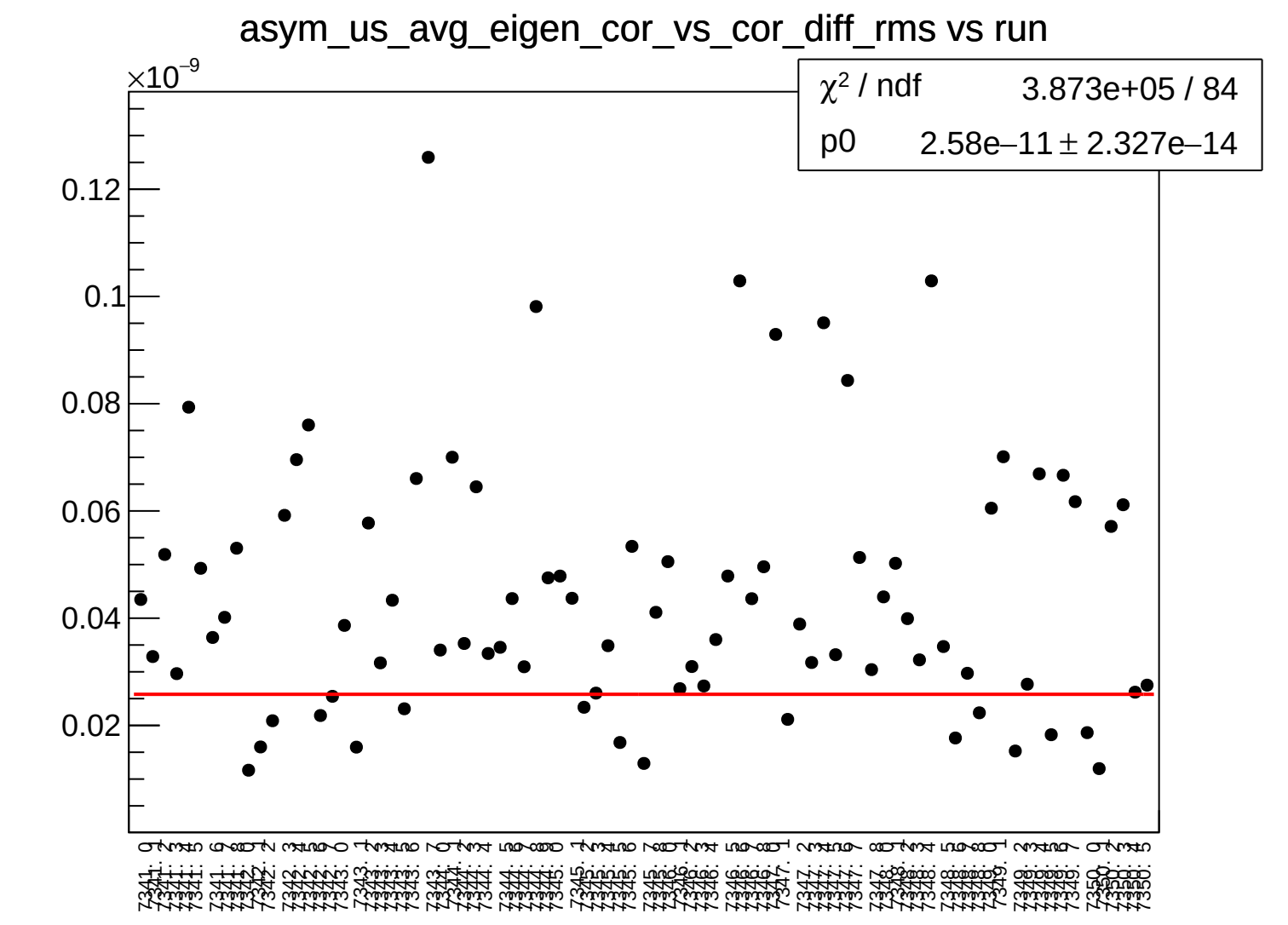

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 82.74 / 84
p0 −0.02303 ± 0.1291
pull
Entries 85
Mean −10.8
Std Dev 0

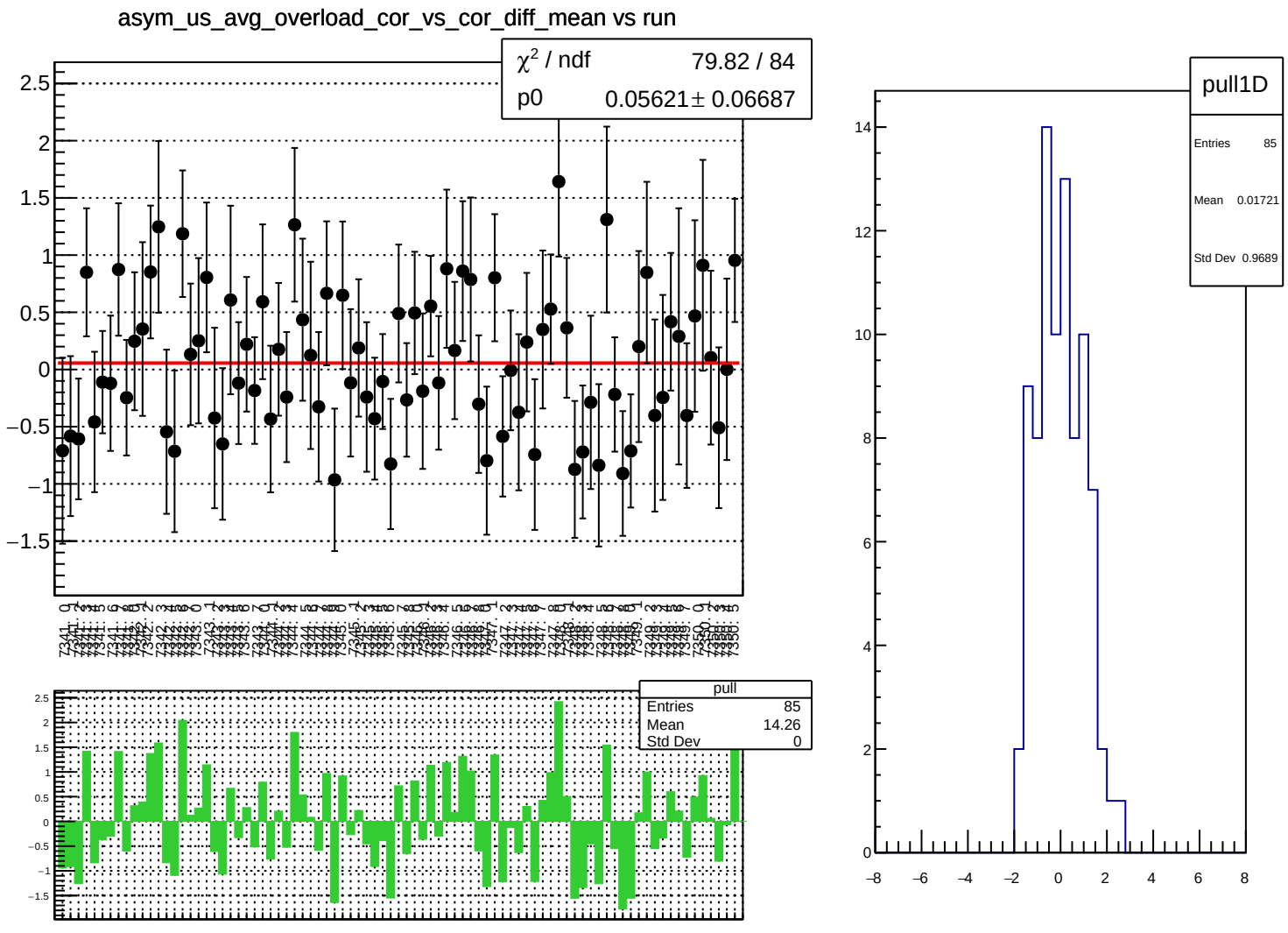

pull1D
Entries 85
Mean 0.02322
Std Dev 0.9863

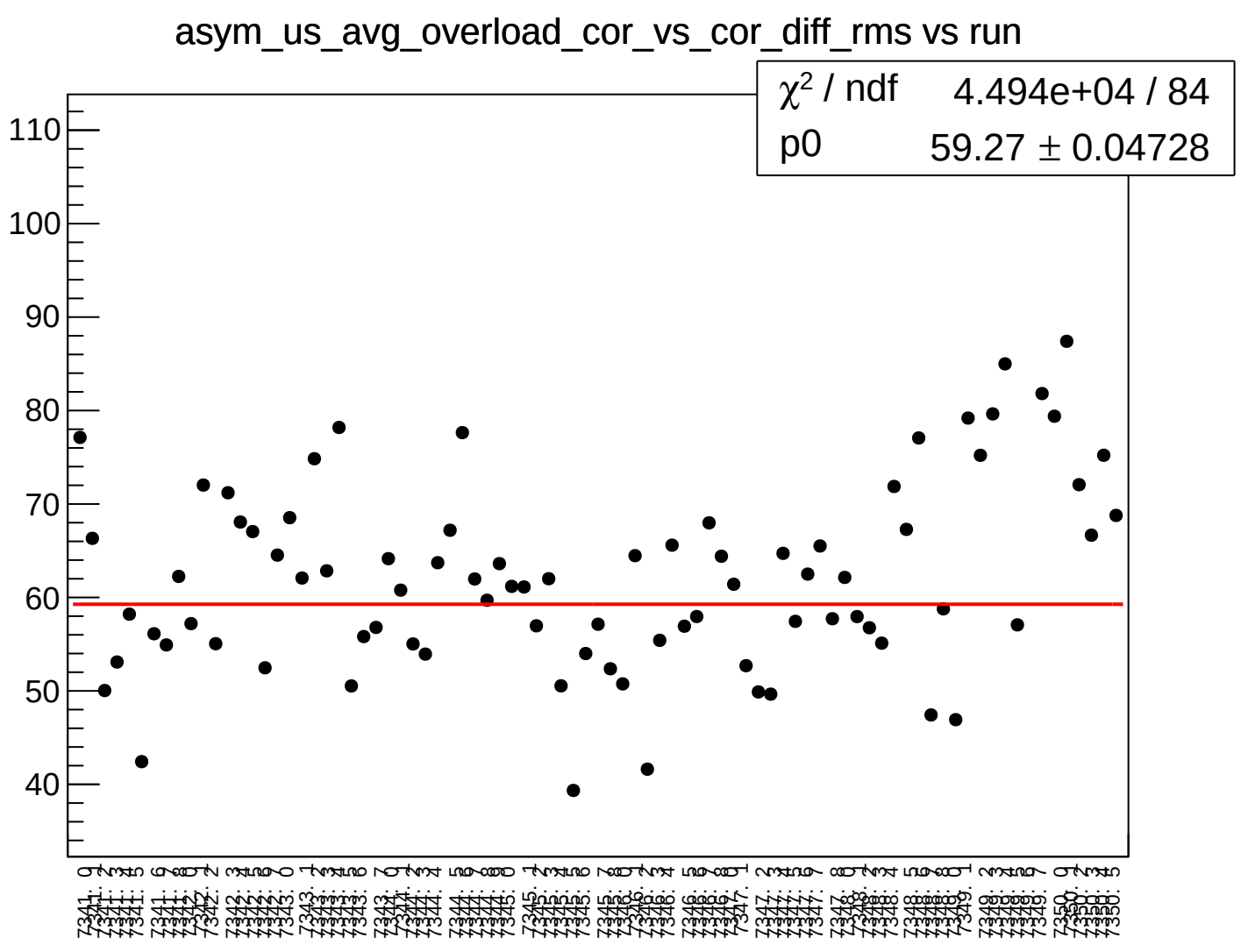

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.141e+05 / 84
p0 111.8 ± 0.09125
300
250
200
150
100

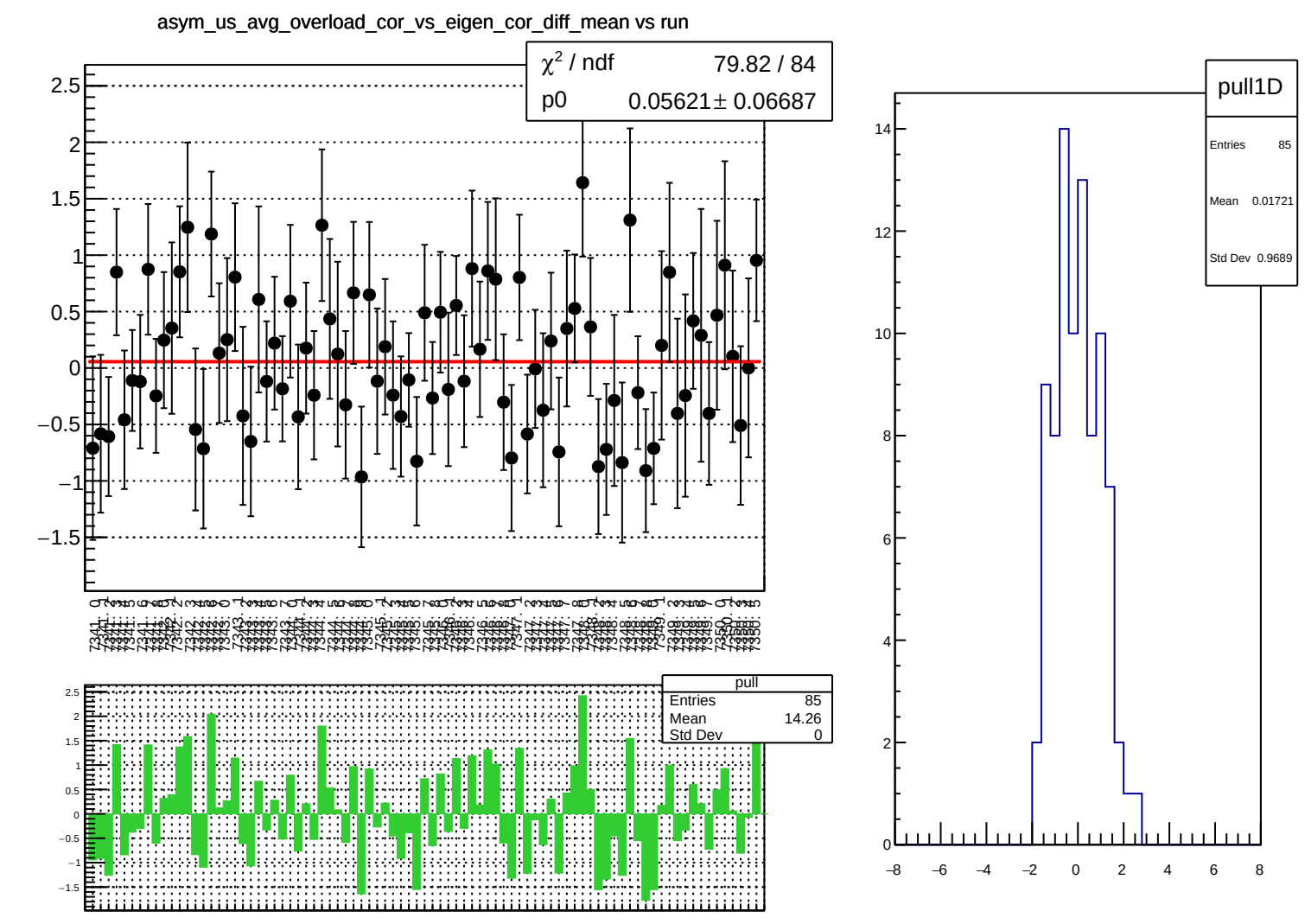

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.1 / 84
p0 5.53e−14 ± 3.292e−14
pull
Entries 85
Mean 57.88
Std Dev 25.66

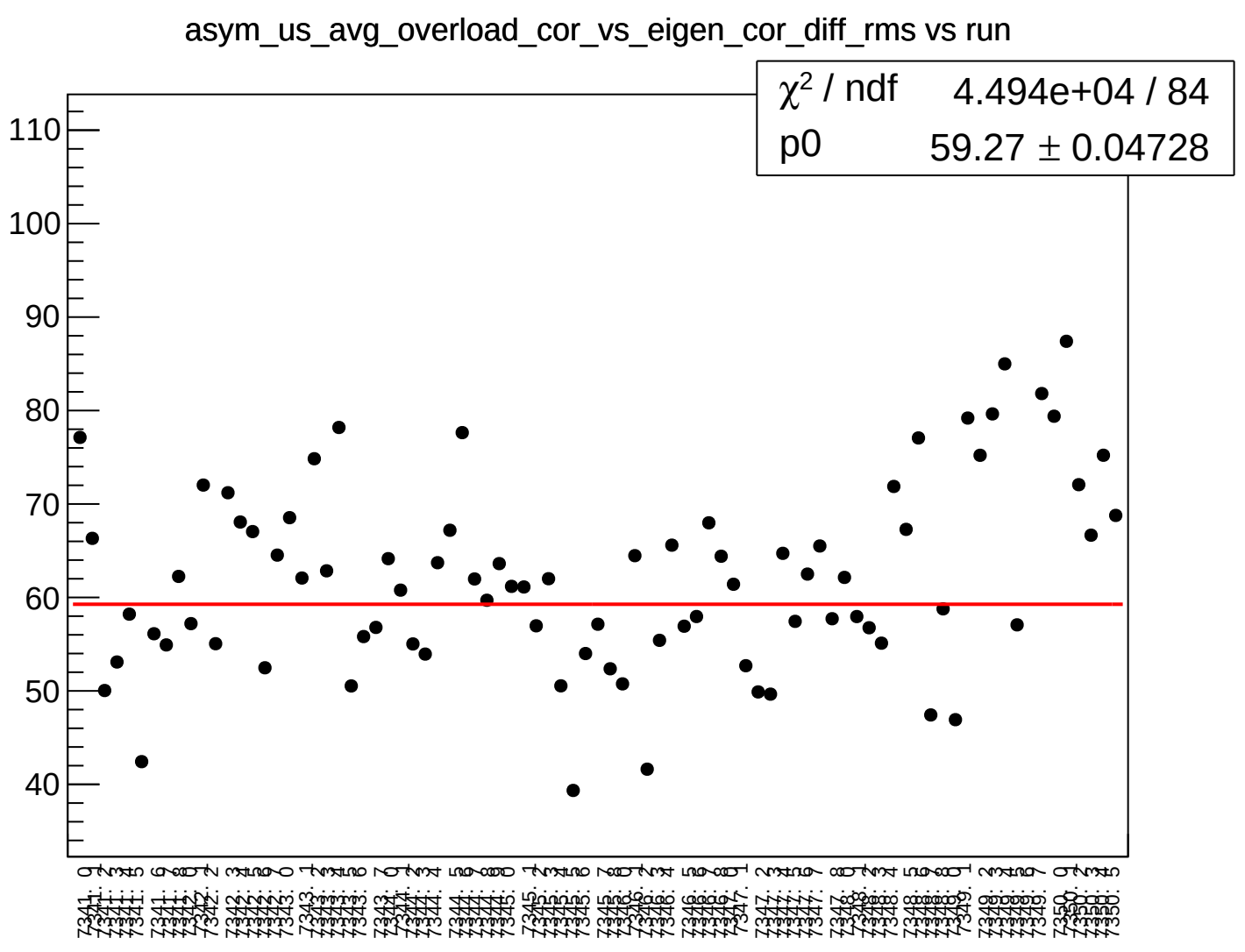

pull1D
Entries 85
Mean −0.03343
Std Dev 0.9204

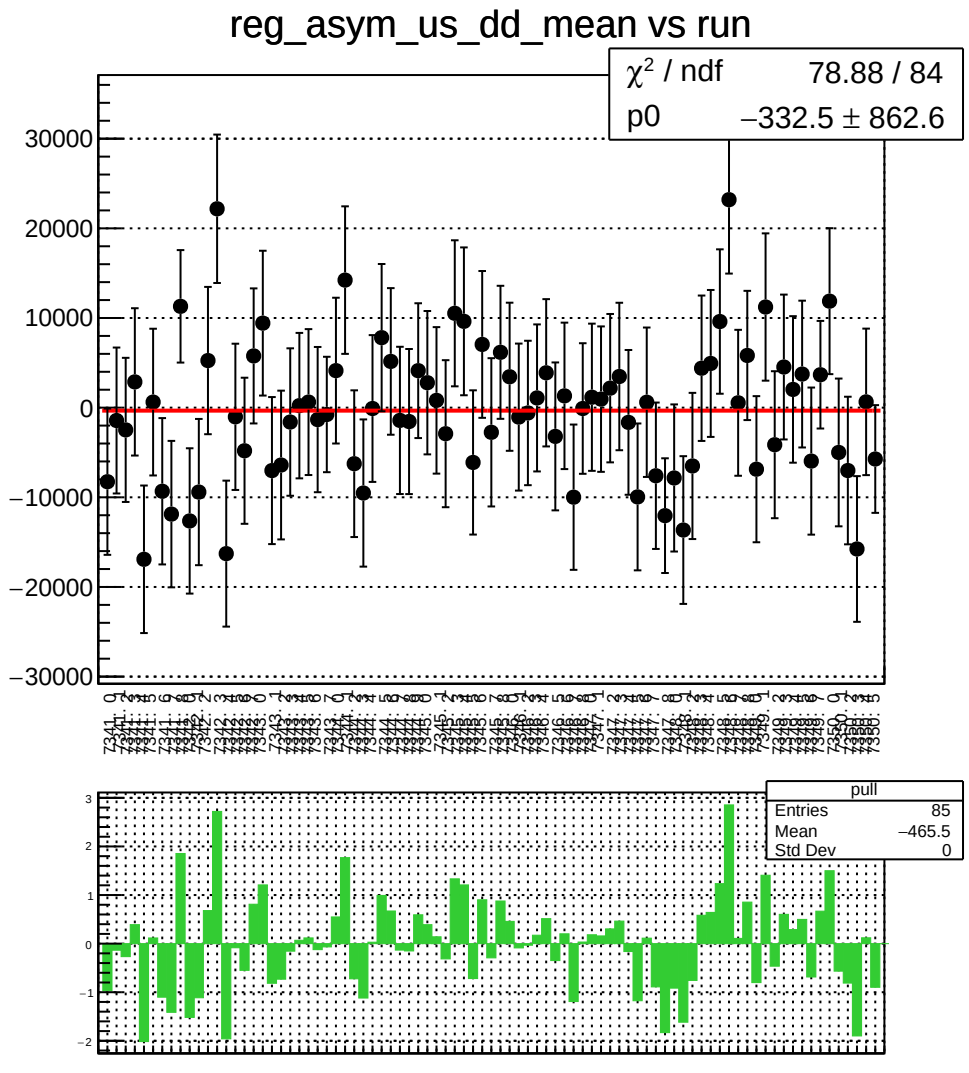

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.873e+05 / 84
p0 2.58e−11 ± 2.327e−14
0.12
0.1
0.08
0.06
0.04
0.02

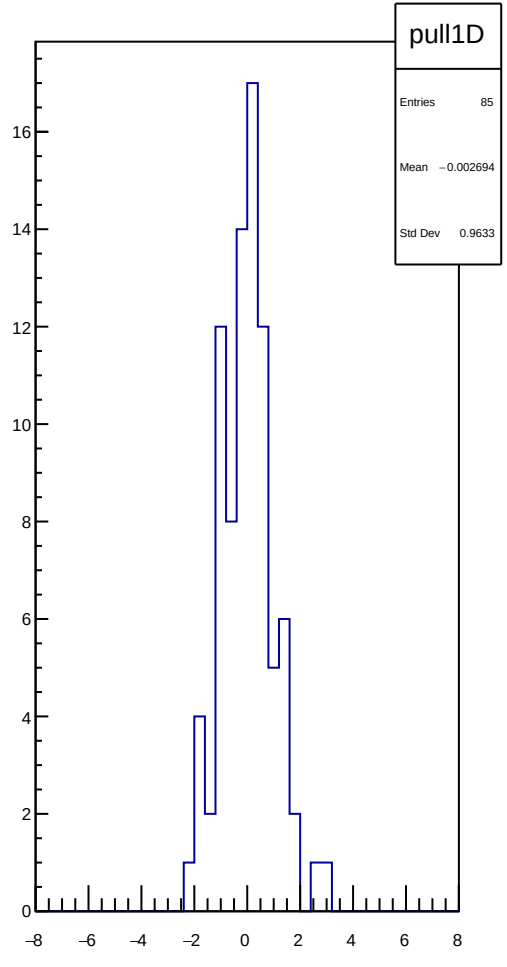

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 79.82 / 84
p0 0.05621 ± 0.06687
pull
Entries 85
Mean 14.26
Std Dev 0
pull1D
Entries 85
Mean 0.01721
Std Dev 0.9689

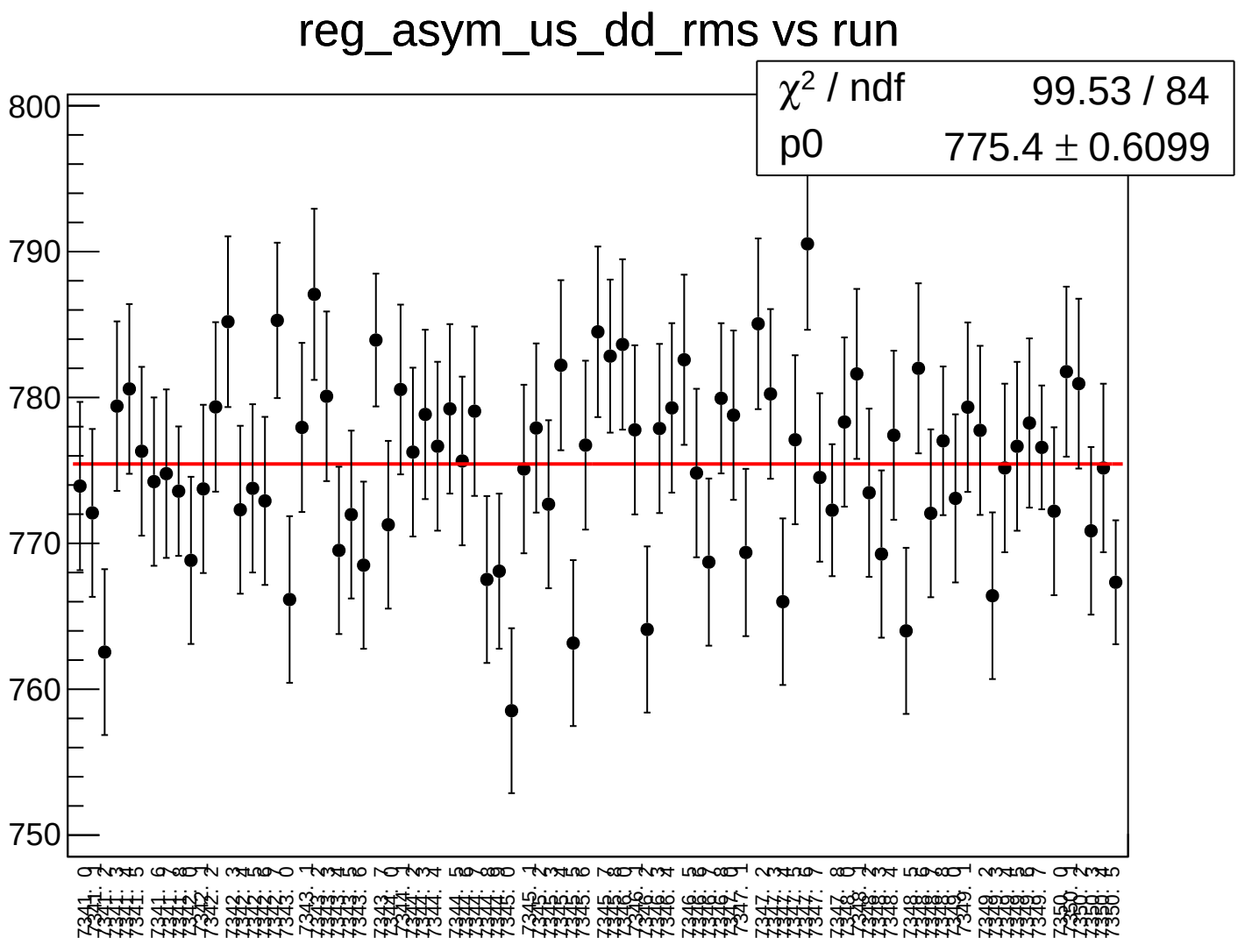

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 4.494e+04 / 84
p0 59.27 ± 0.04728
110
100
90
80
70
60
50
40

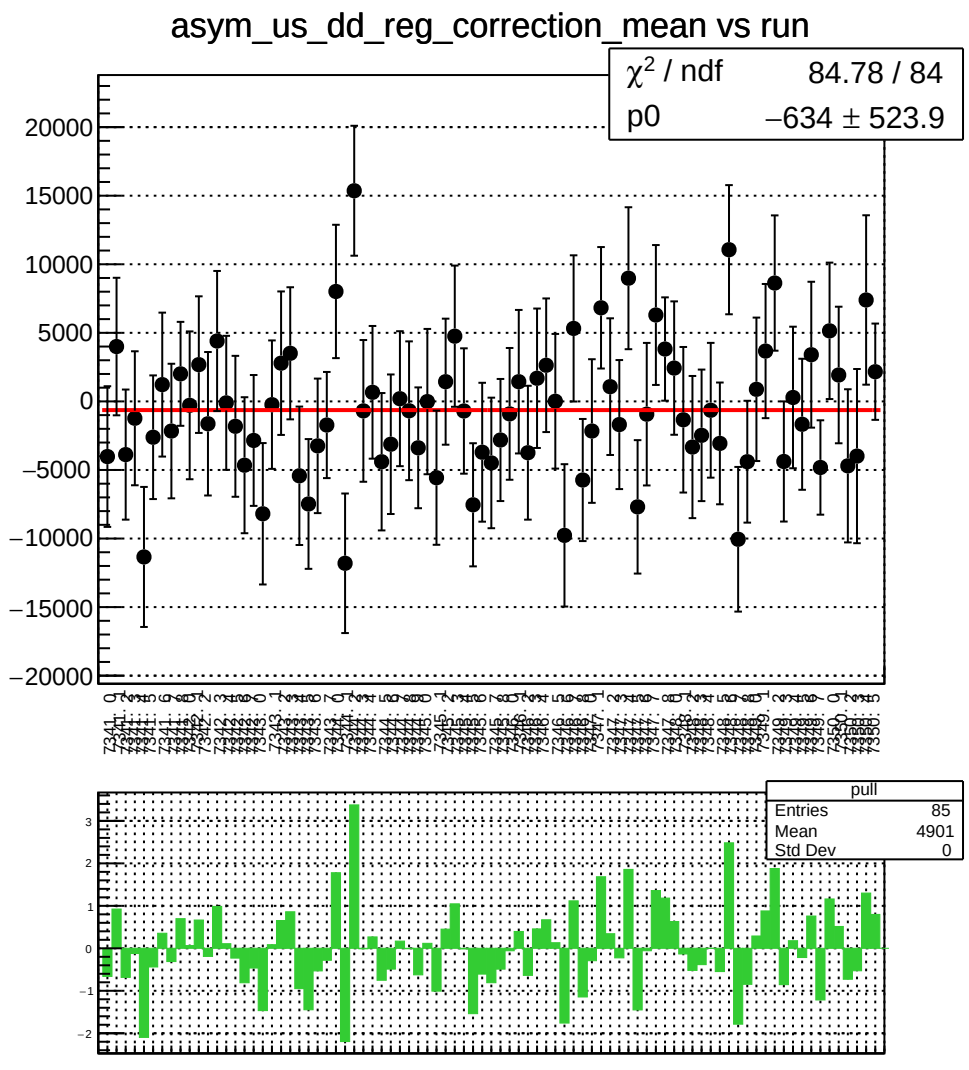

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.82 / 84
p0 0.05621 ± 0.06687
pull
Entries 85
Mean 14.26
Std Dev 0
pull1D
Entries 85
Mean 0.01721
Std Dev 0.9689

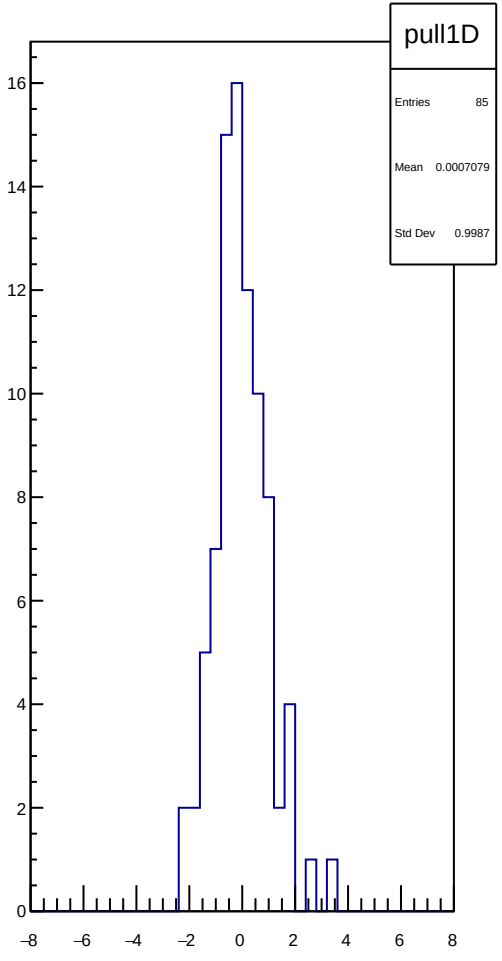

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.494e+04 / 84
p0 59.27 ± 0.04728
110
100
90
80
70
60
50
40

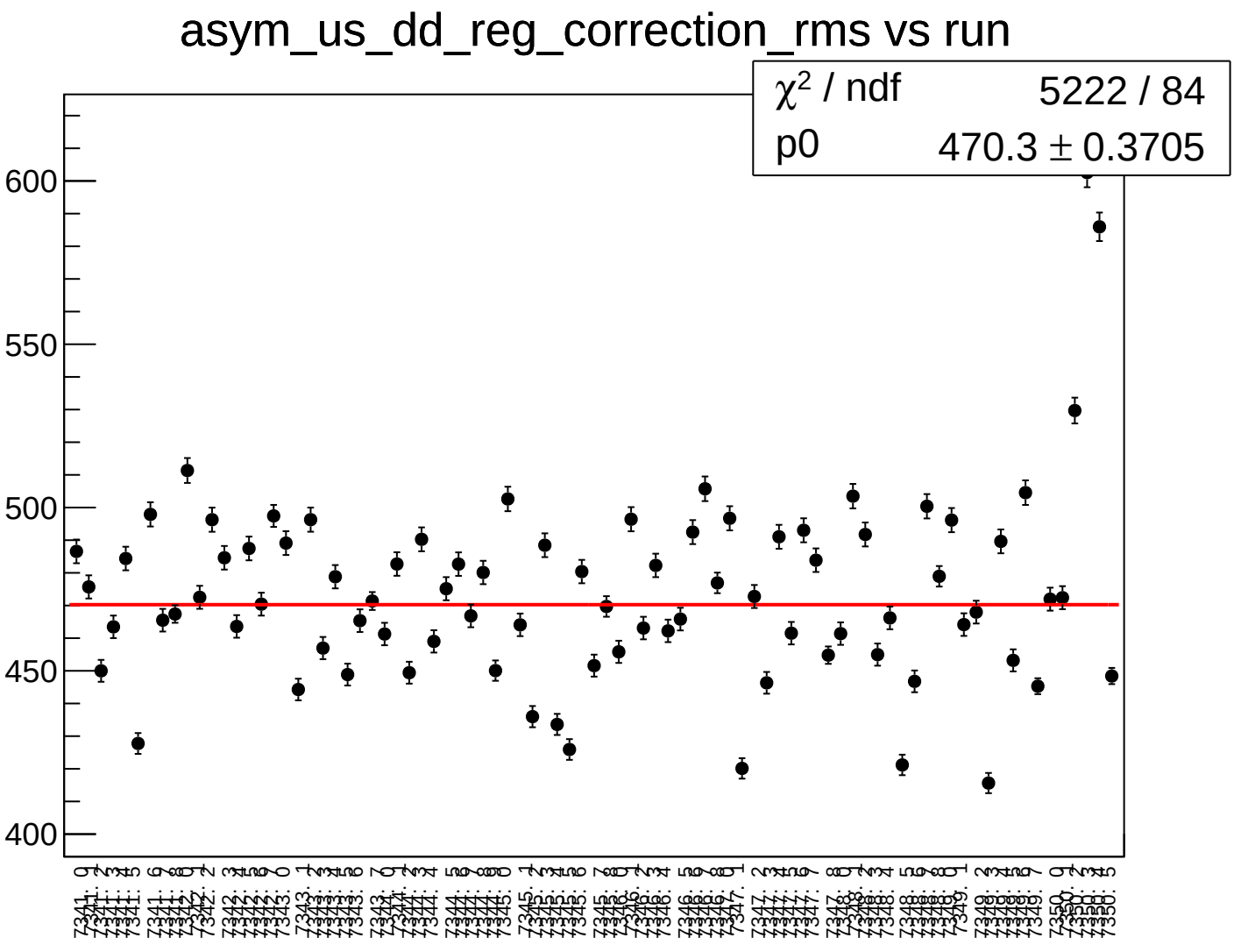

reg_asym_us_dd_mean vs run
χ² / ndf 78.88 / 84
p0 −332.5 ± 862.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −465.5
Std Dev 0
3
2
1
0
−1
−2

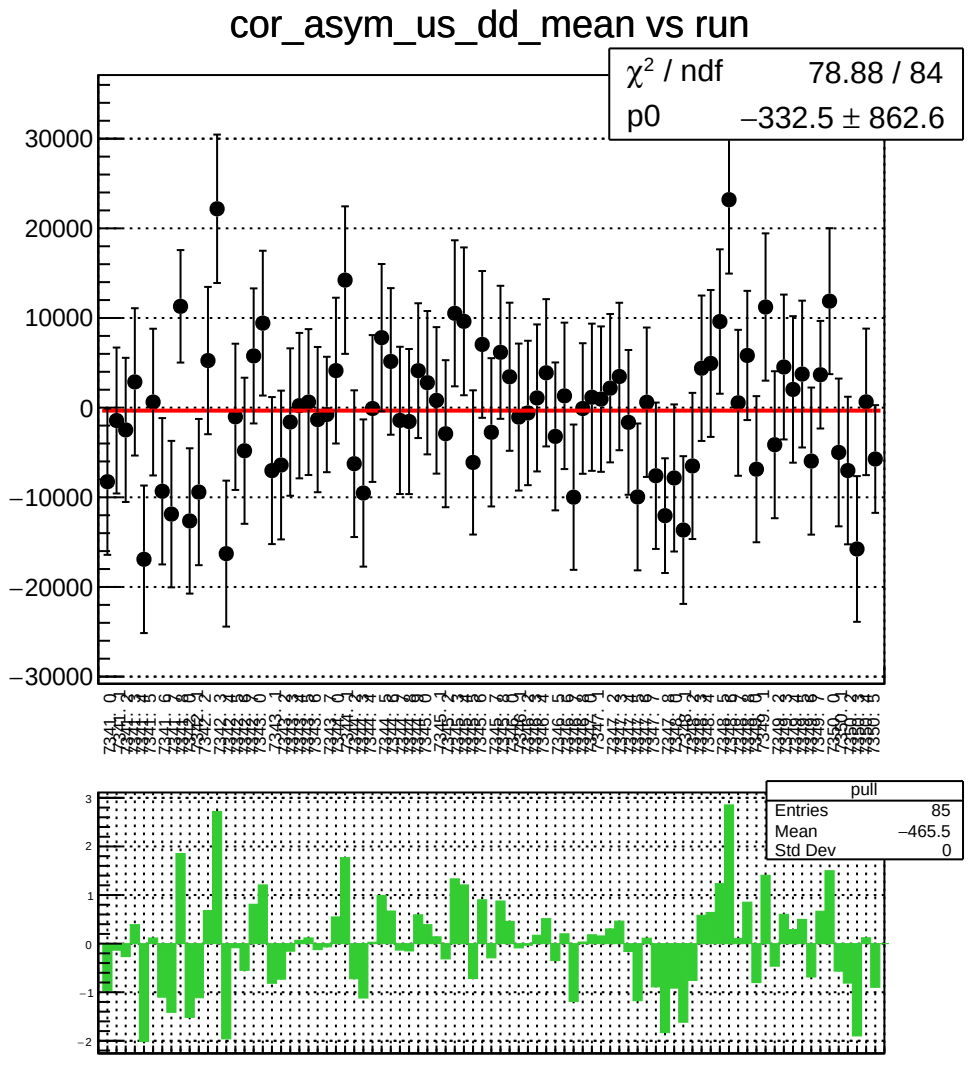

pull1D
Entries 85
Mean −0.002694
Std Dev 0.9633
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

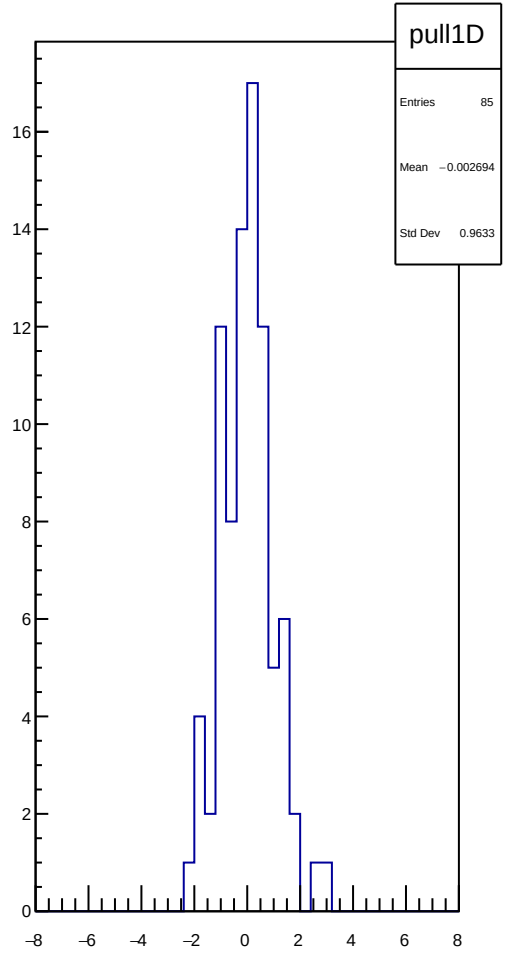

reg_asym_us_dd_rms vs run
χ^2 / ndf 99.53 / 84
p0 775.4 ± 0.6099
800
790
780
770
760
750

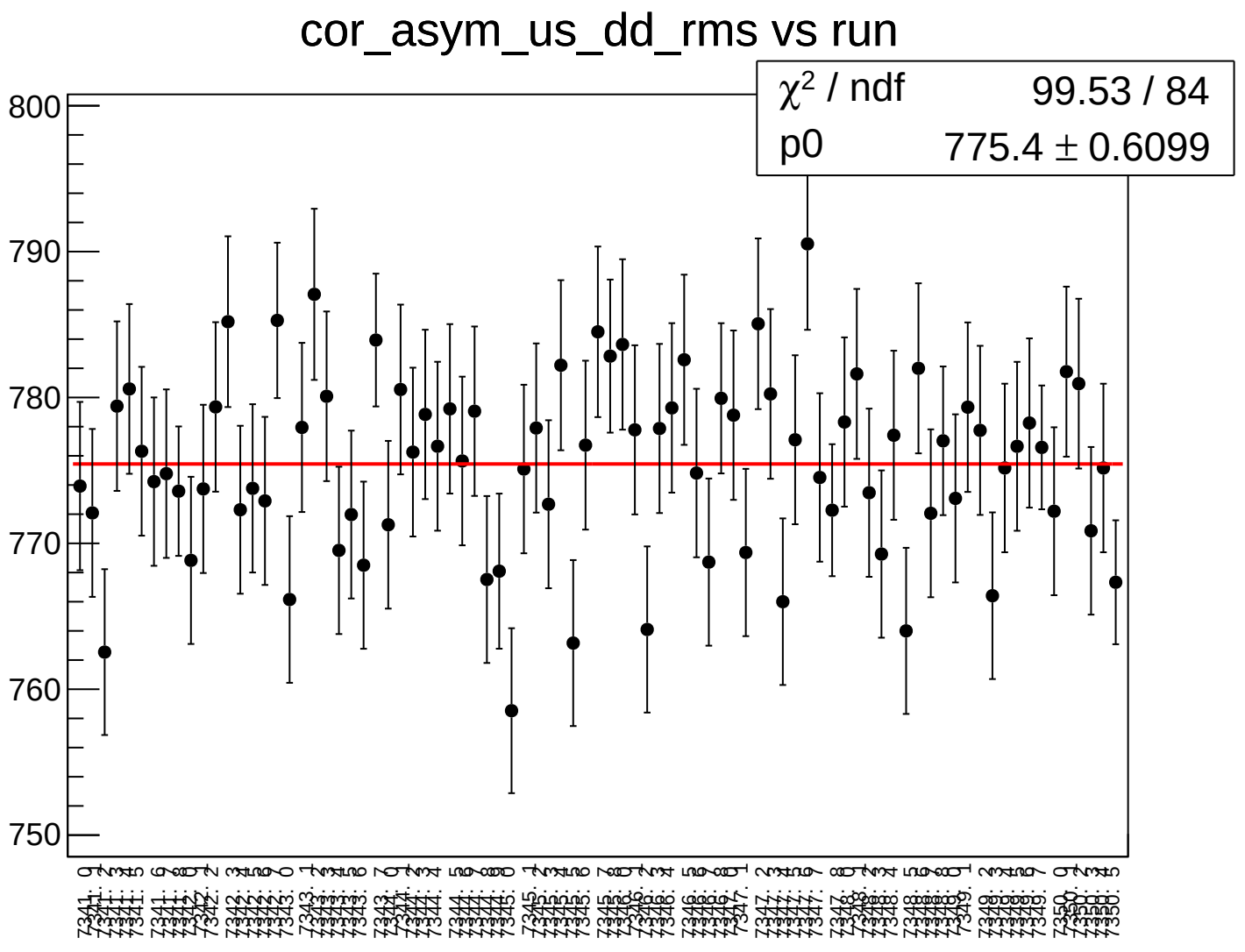

asym_us_dd_reg_correction_mean vs run
χ² / ndf 84.78 / 84
p0 −634 ± 523.9
pull
Entries 85
Mean 4901
Std Dev 0

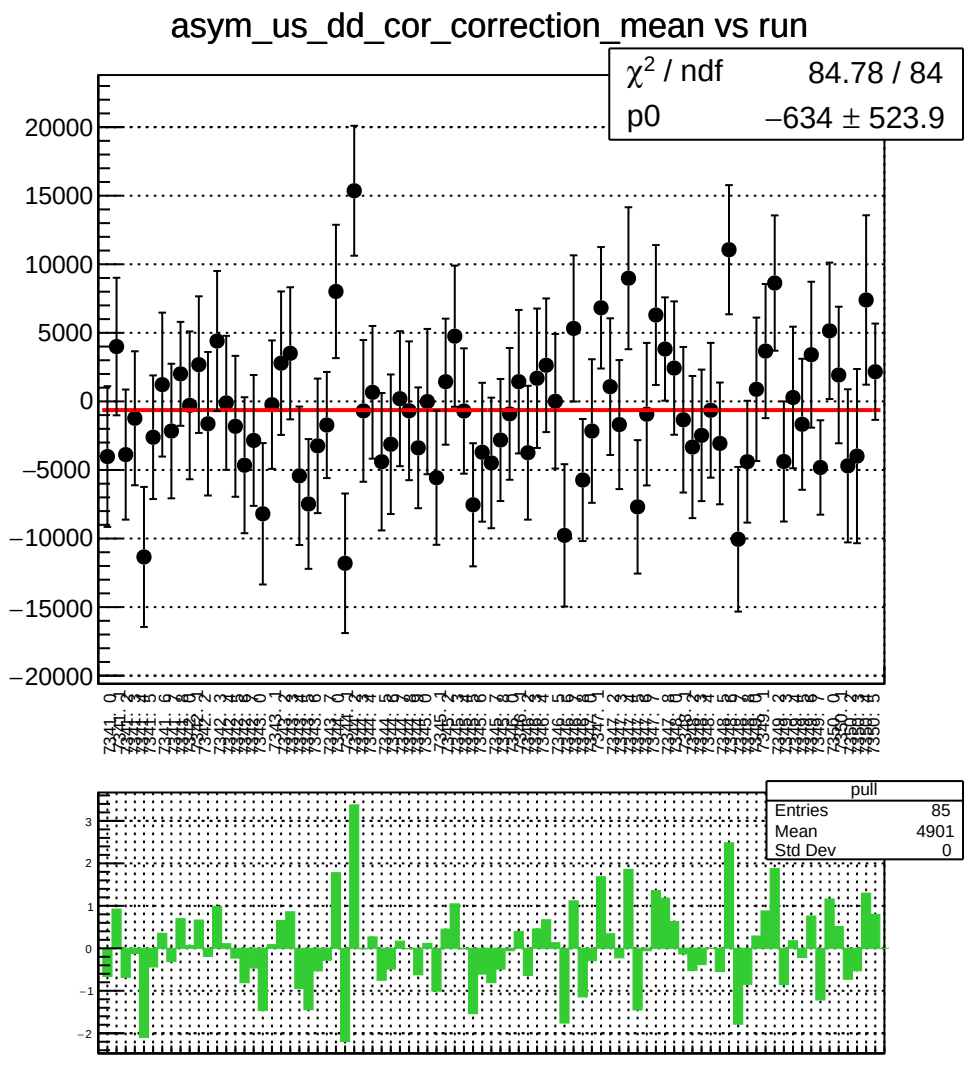

pull1D
Entries 85
Mean 0.0007079
Std Dev 0.9987

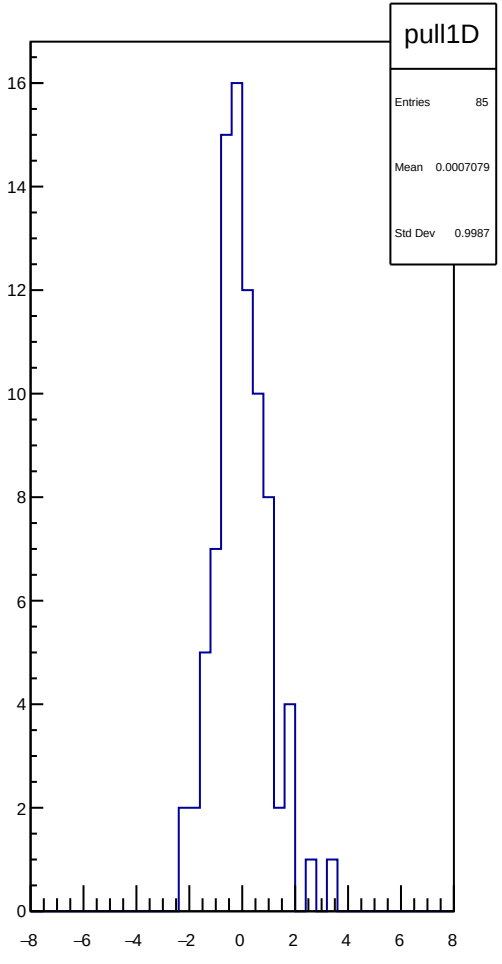

asym_us_dd_reg_correction_rms vs run
χ² / ndf 5222 / 84
p0 470.3 ± 0.3705
600
550
500
450
400

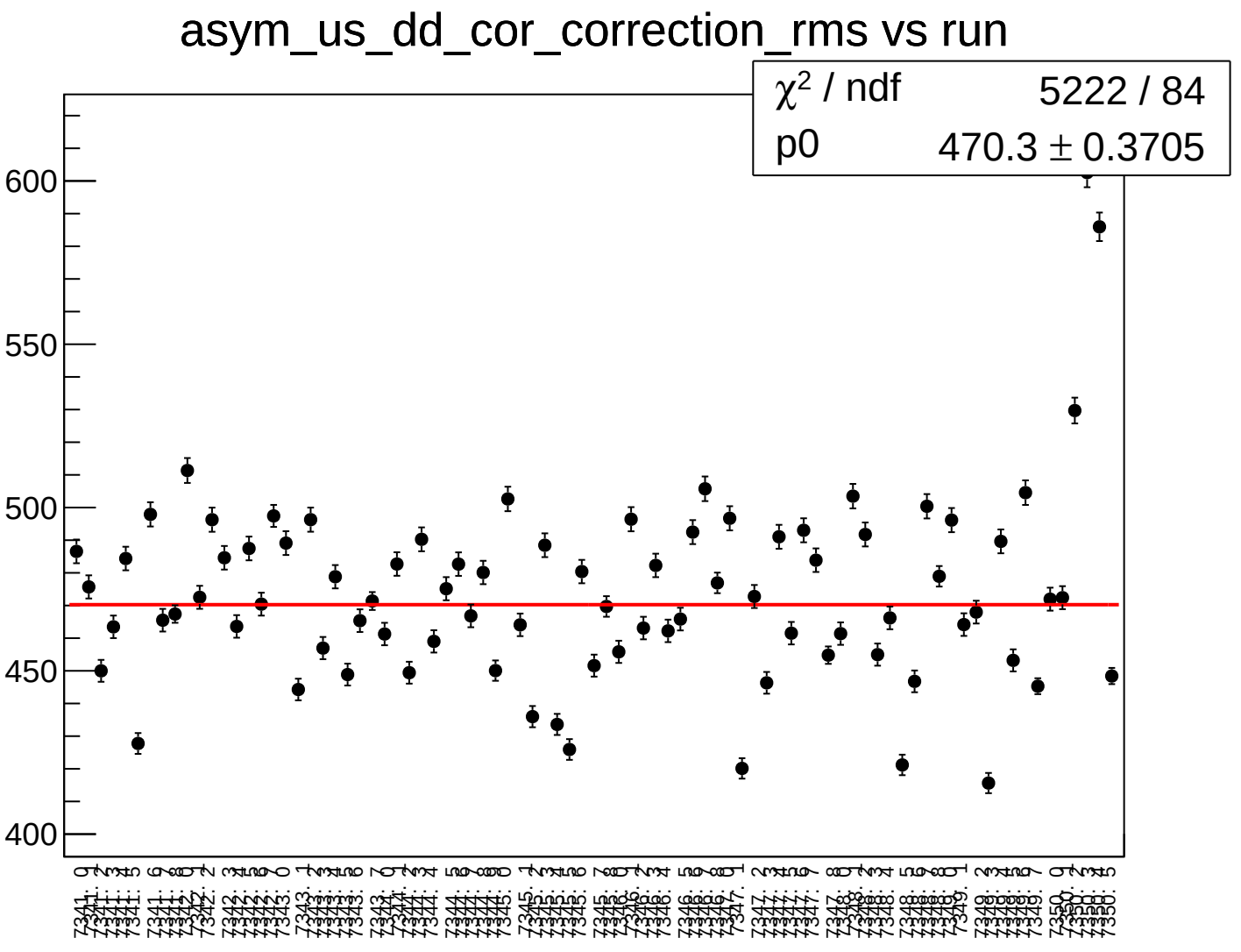

cor_asym_us_dd_mean vs run
χ² / ndf 78.88 / 84
p0 −332.5 ± 862.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −465.5
Std Dev 0
3
2
1
0
−1
−2

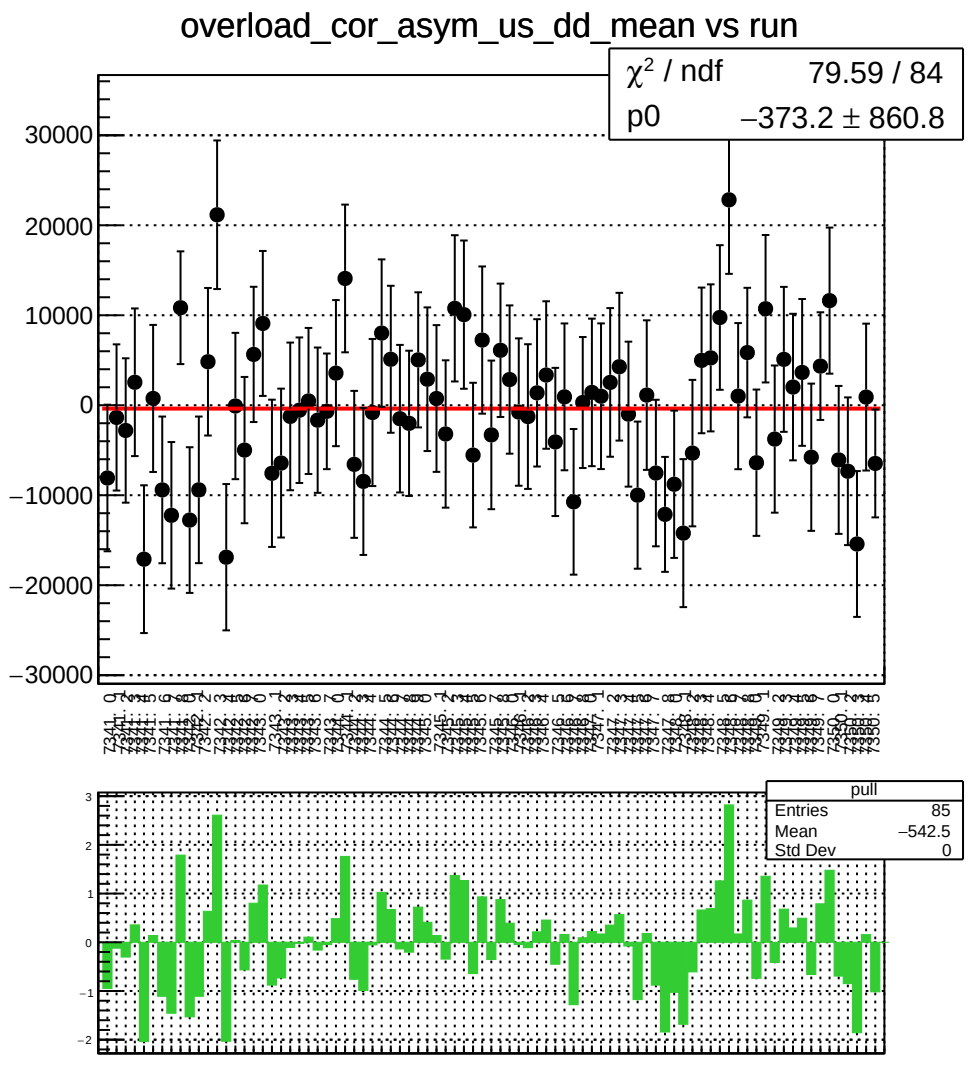

pull1D
Entries 85
Mean −0.002694
Std Dev 0.9633
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

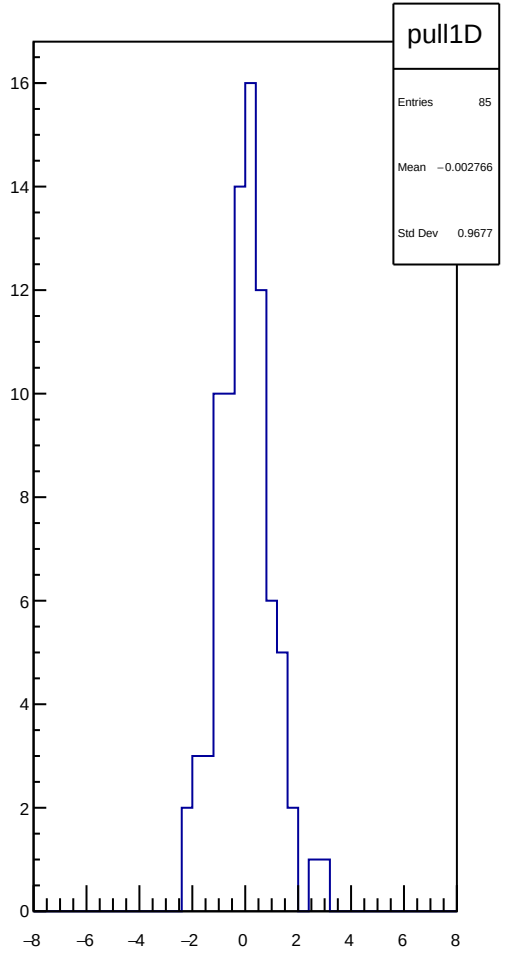

cor_asym_us_dd_rms vs run
χ² / ndf 99.53 / 84
p0 775.4 ± 0.6099
800
790
780
770
760
750

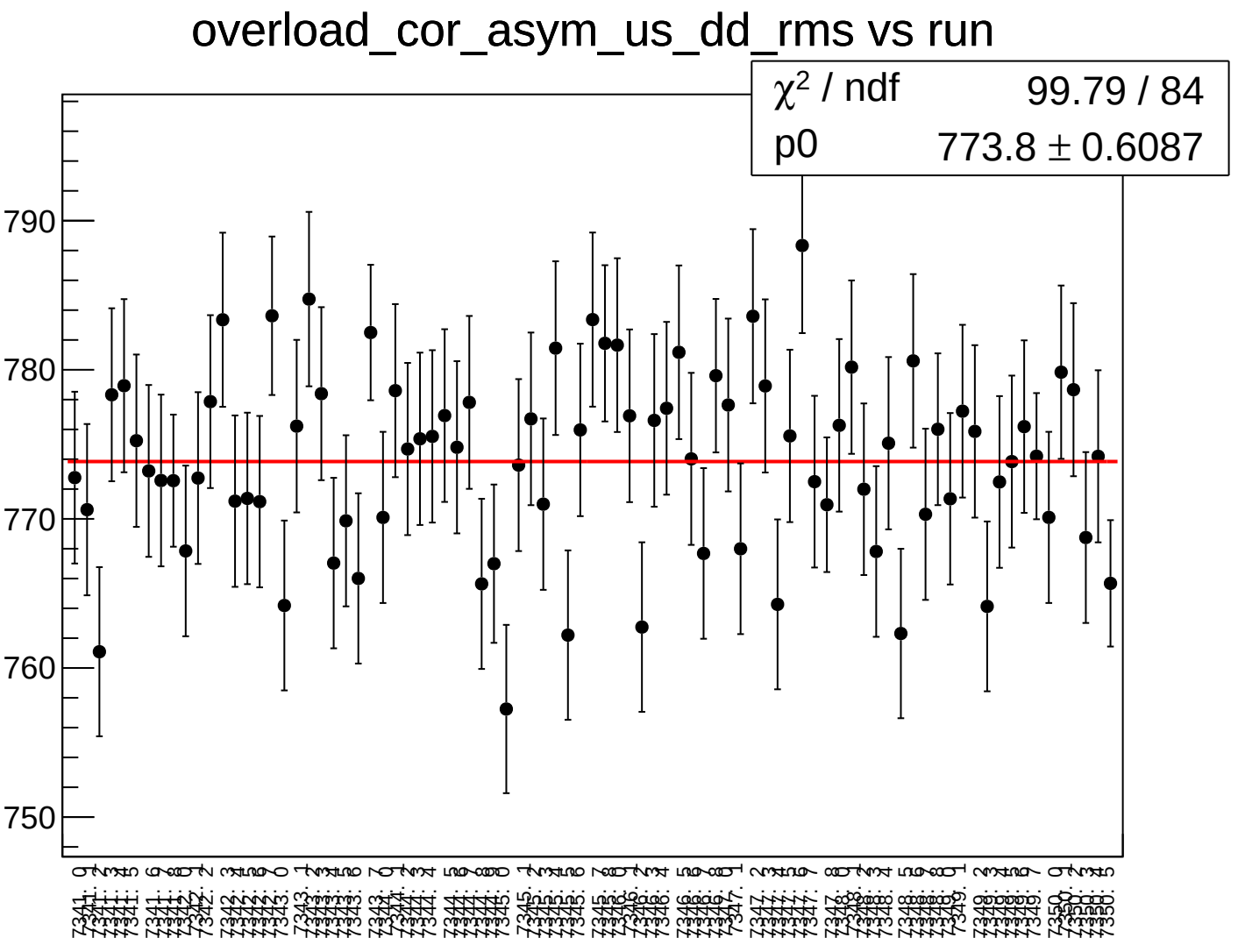

asym_us_dd_cor_correction_mean vs run
χ² / ndf 84.78 / 84
p0 −634 ± 523.9
pull
Entries 85
Mean 4901
Std Dev 0

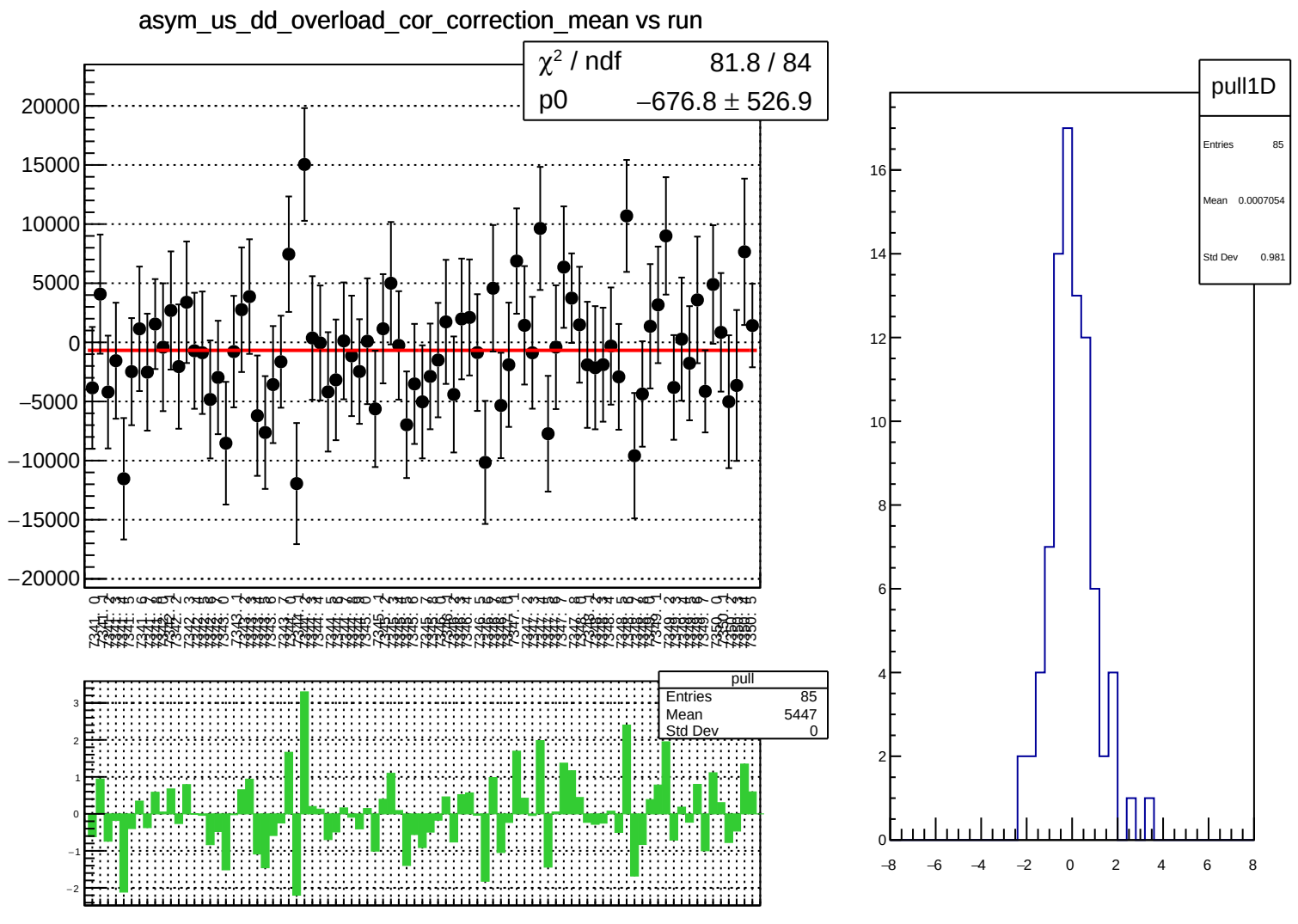

pull1D
Entries 85
Mean 0.0007079
Std Dev 0.9987

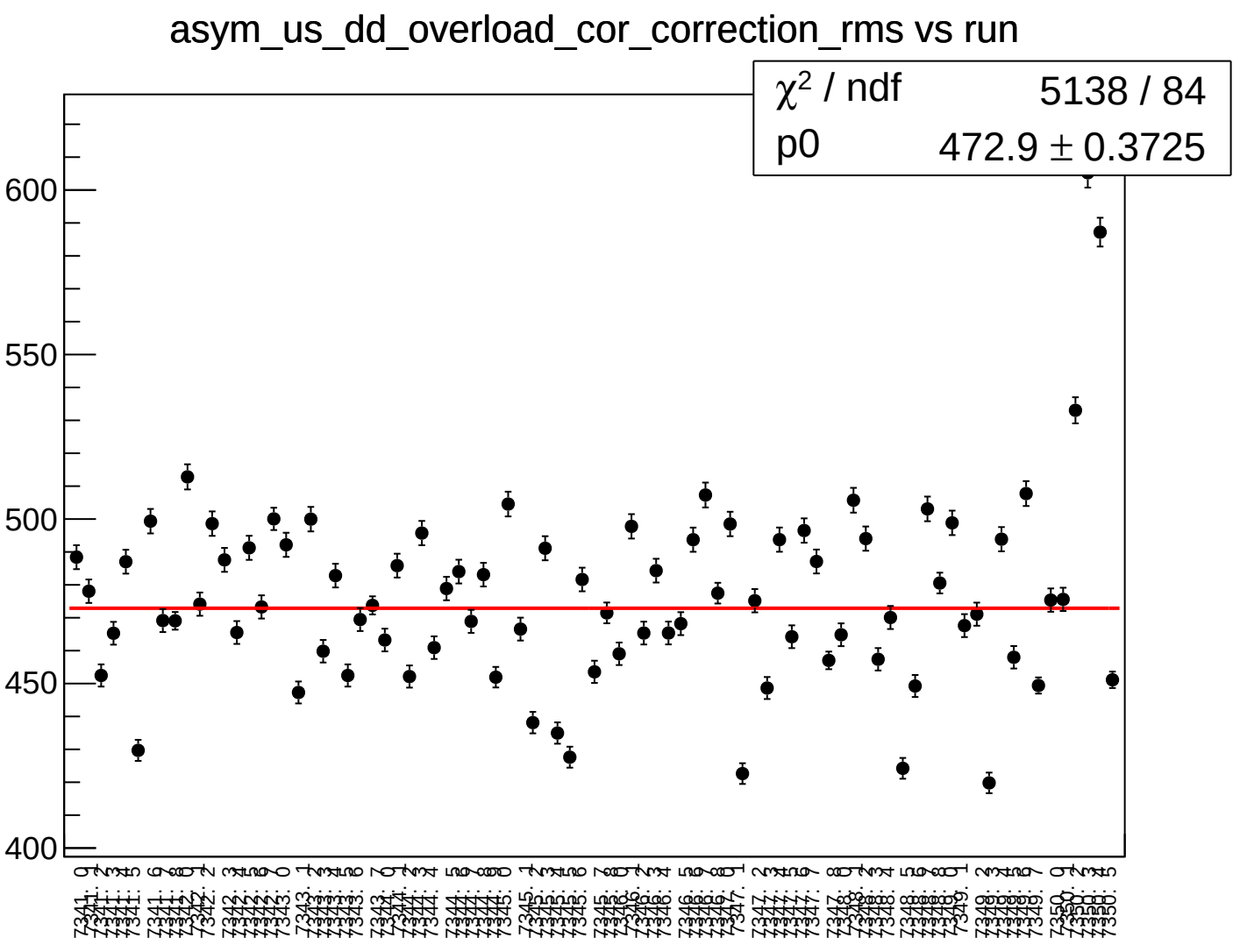

asym_us_dd_cor_correction_rms vs run
χ² / ndf 5222 / 84
p0 470.3 ± 0.3705
600
550
500
450
400

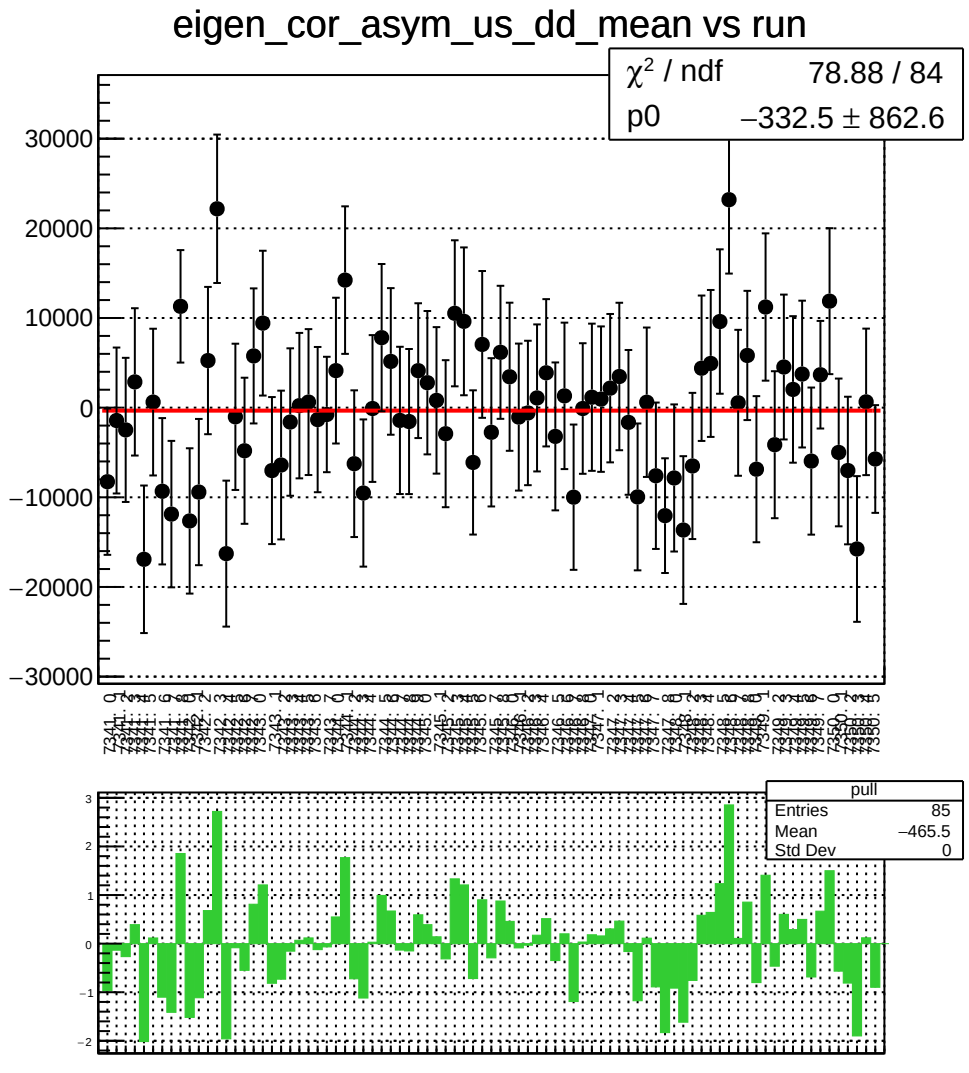

overload_cor_asym_us_dd_mean vs run
χ² / ndf 79.59 / 84
p0 −373.2 ± 860.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −542.5
Std Dev 0
3
2
1
0
−1
−2

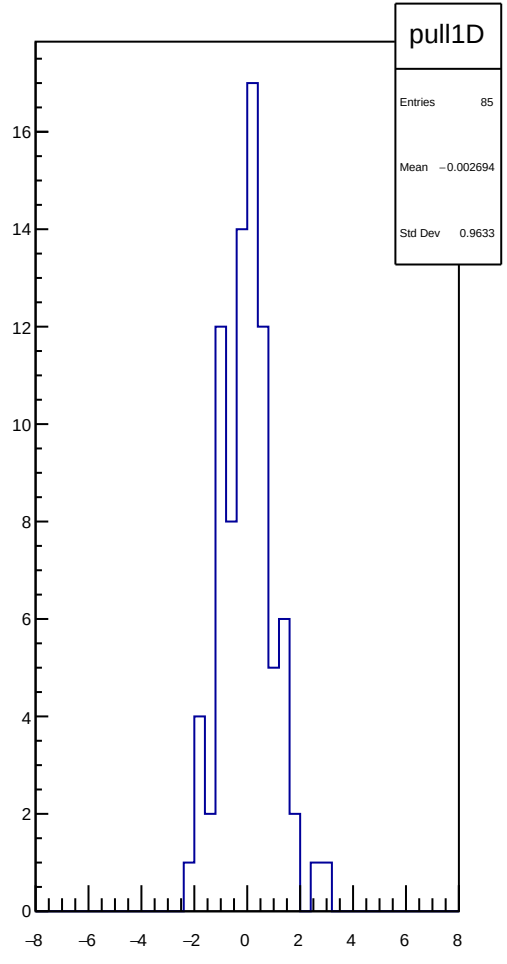

pull1D
Entries 85
Mean −0.002766
Std Dev 0.9677
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

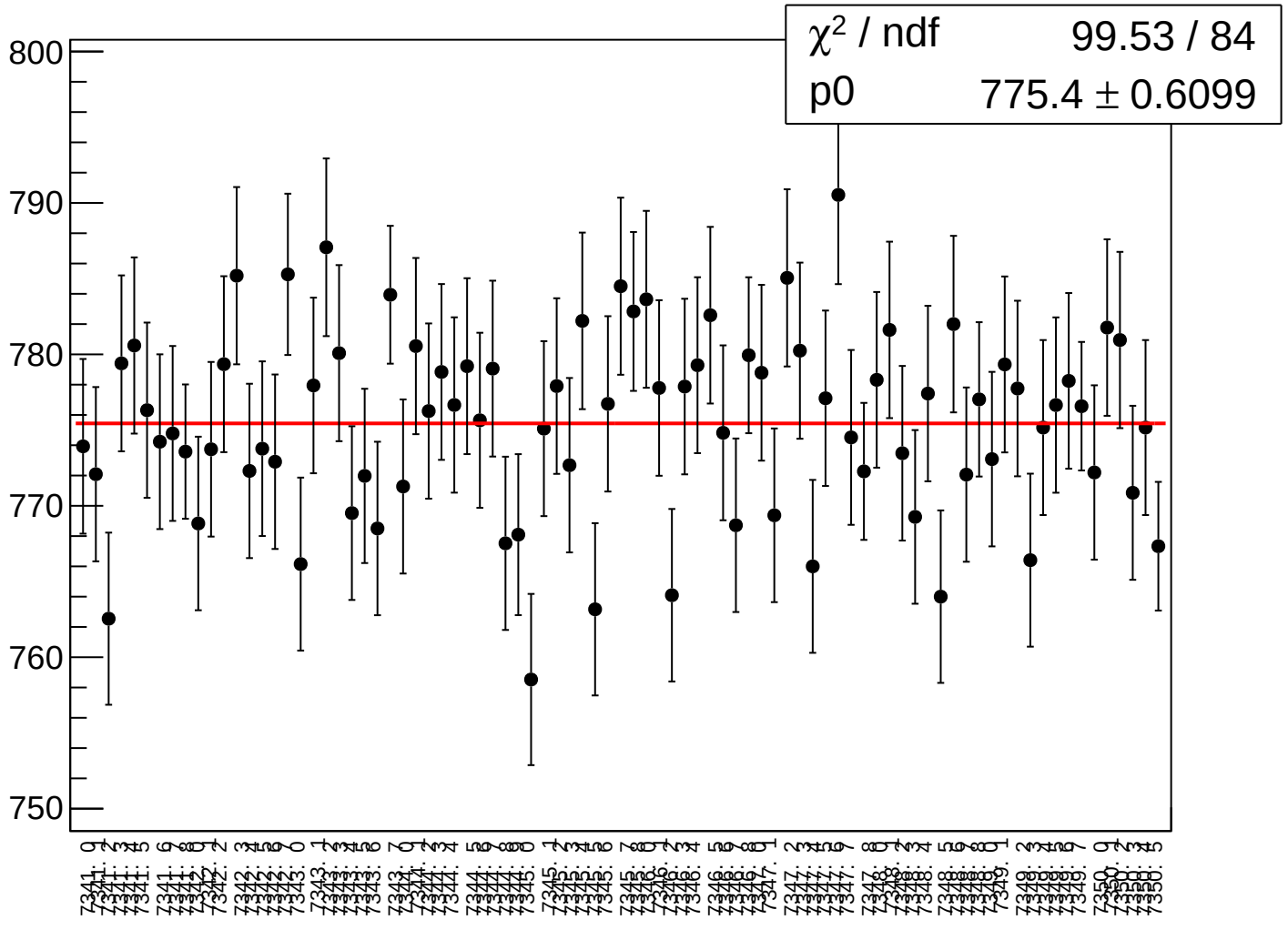

overload_cor_asym_us_dd_rms vs run
χ² / ndf 99.79 / 84
p0 773.8 ± 0.6087
790
780
770
760
750

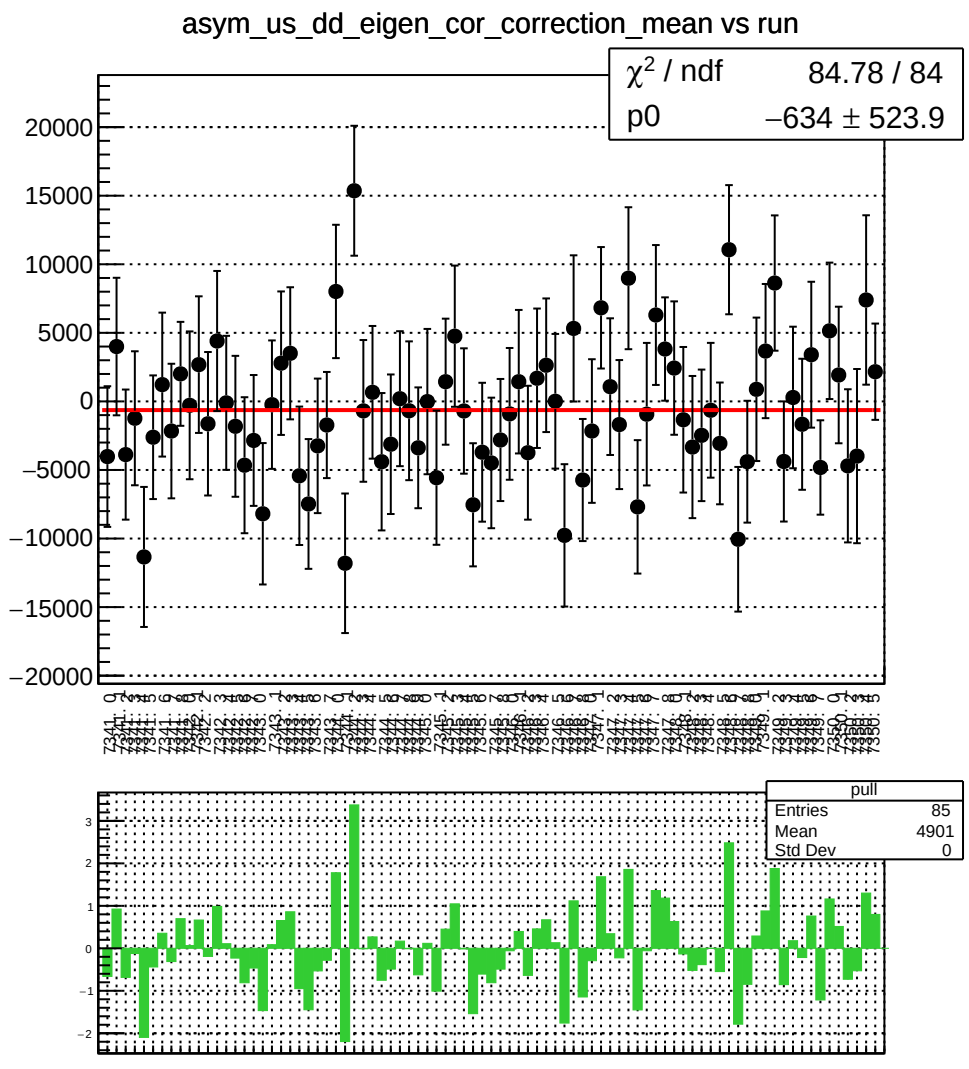

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 81.8 / 84
p0 −676.8 ± 526.9
pull
Entries 85
Mean 5447
Std Dev 0
pull1D
Entries 85
Mean 0.0007054
Std Dev 0.981

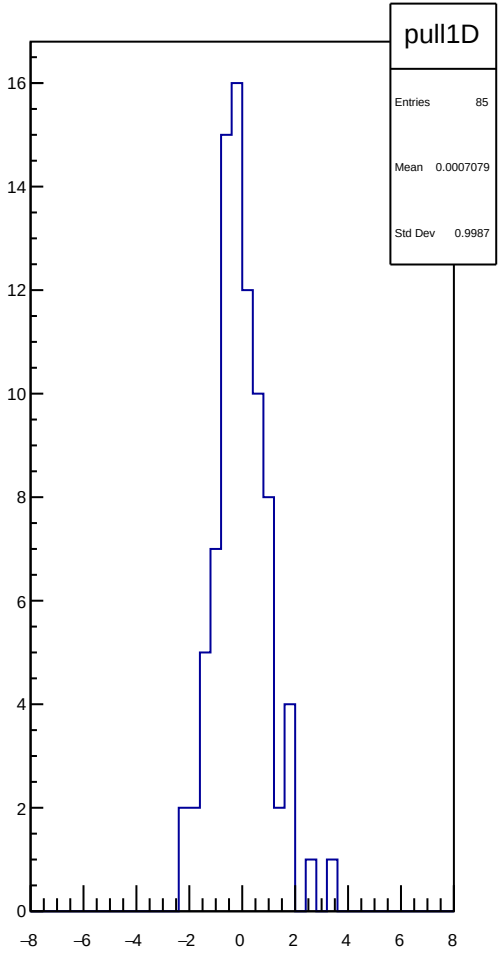

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 5138 / 84
p0 472.9 ± 0.3725
600
550
500
450
400

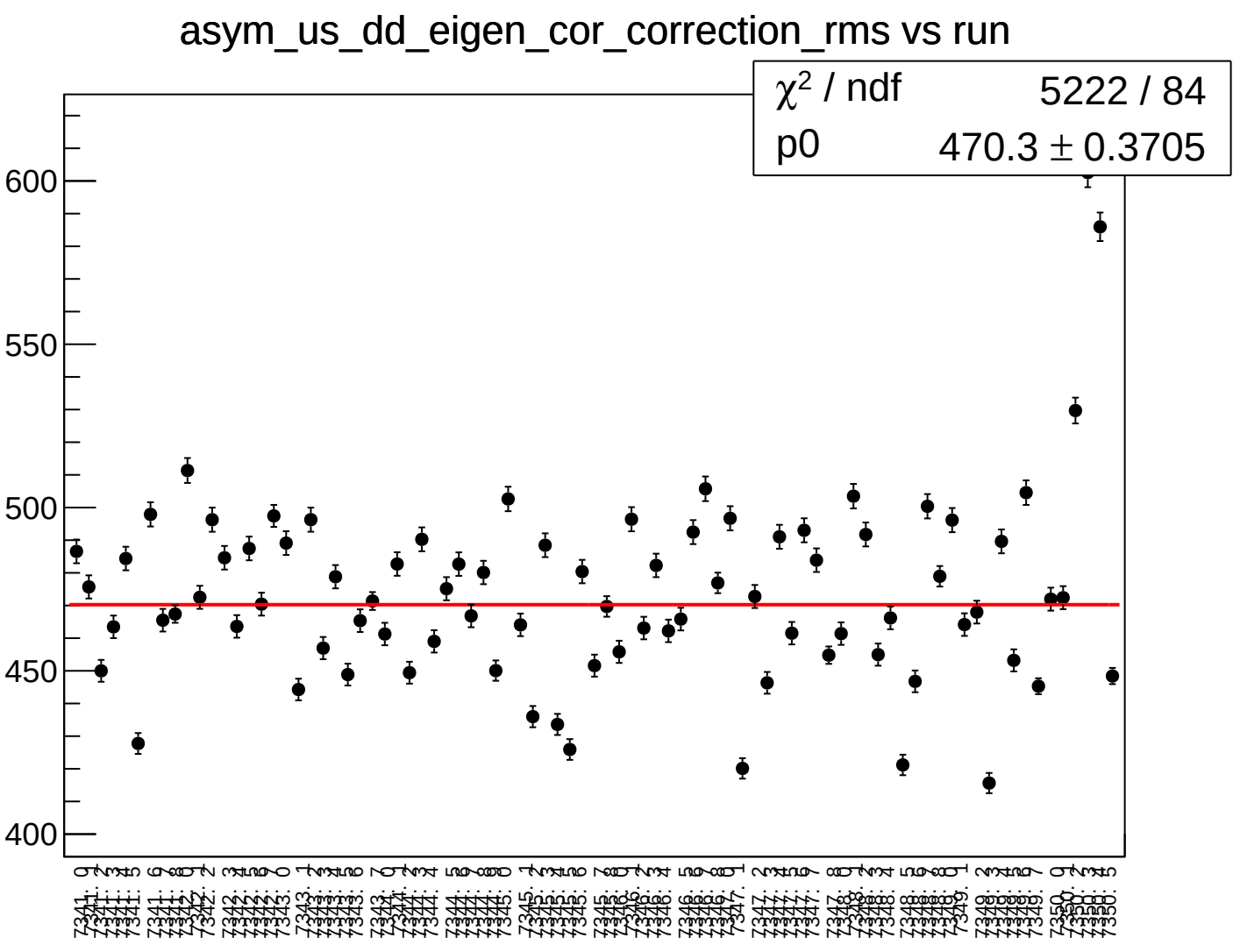

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 78.88 / 84
p0 −332.5 ± 862.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −465.5
Std Dev 0
3
2
1
0
−1
−2

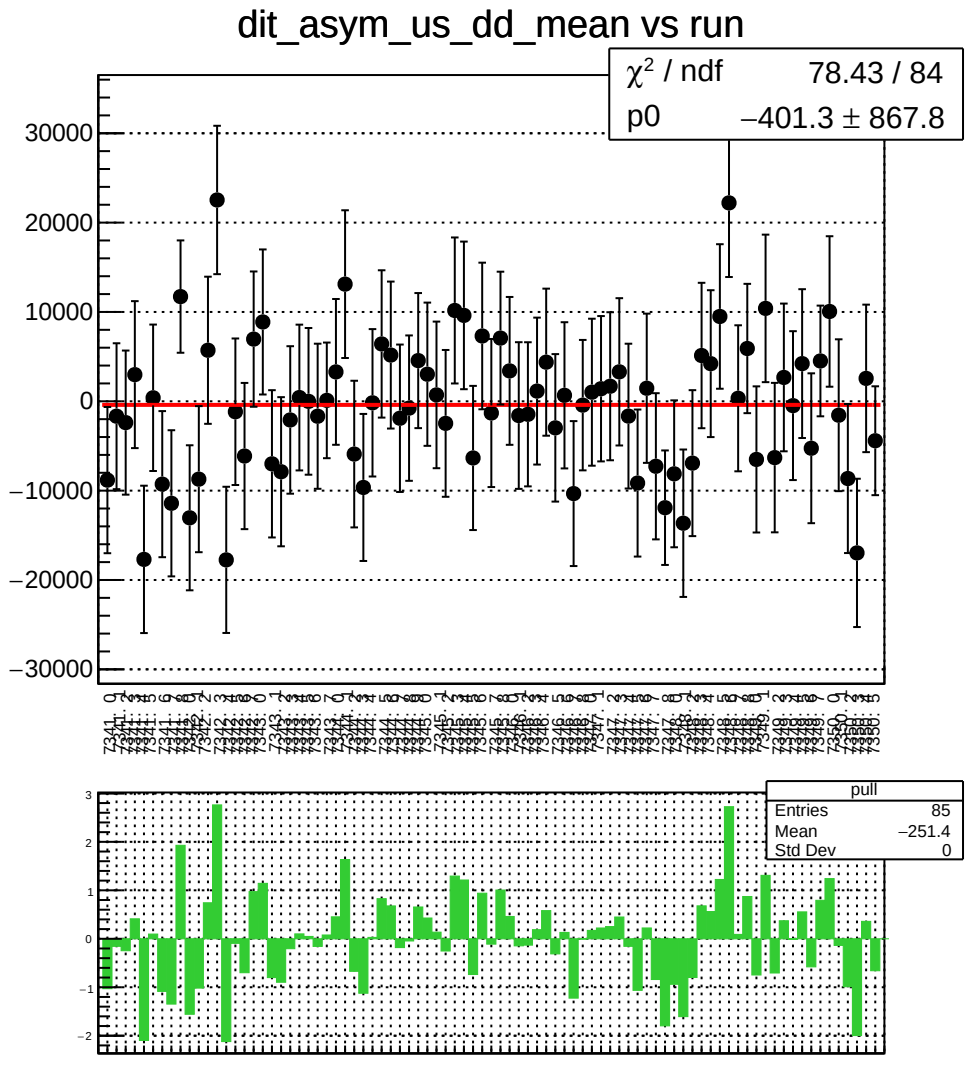

pull1D
Entries 85
Mean −0.002694
Std Dev 0.9633
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

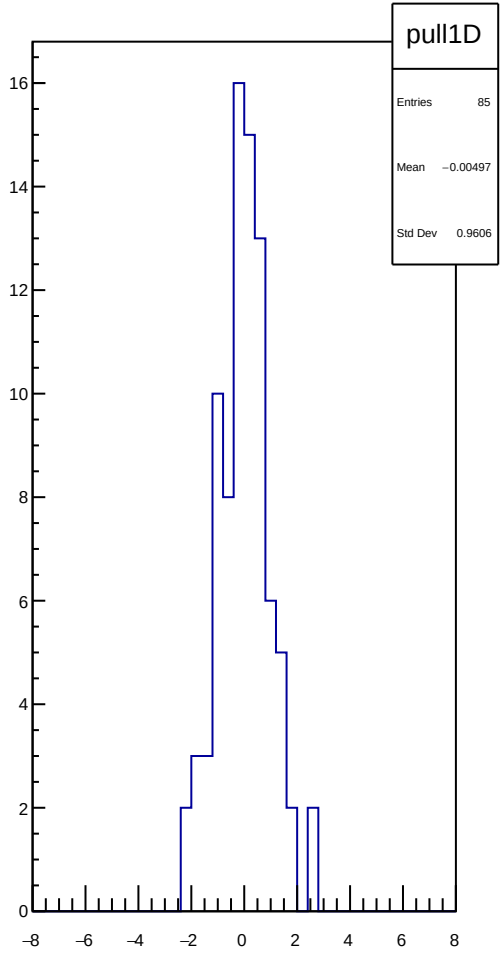

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 99.53 / 84
p0 775.4 ± 0.6099
800
790
780
770
760
750

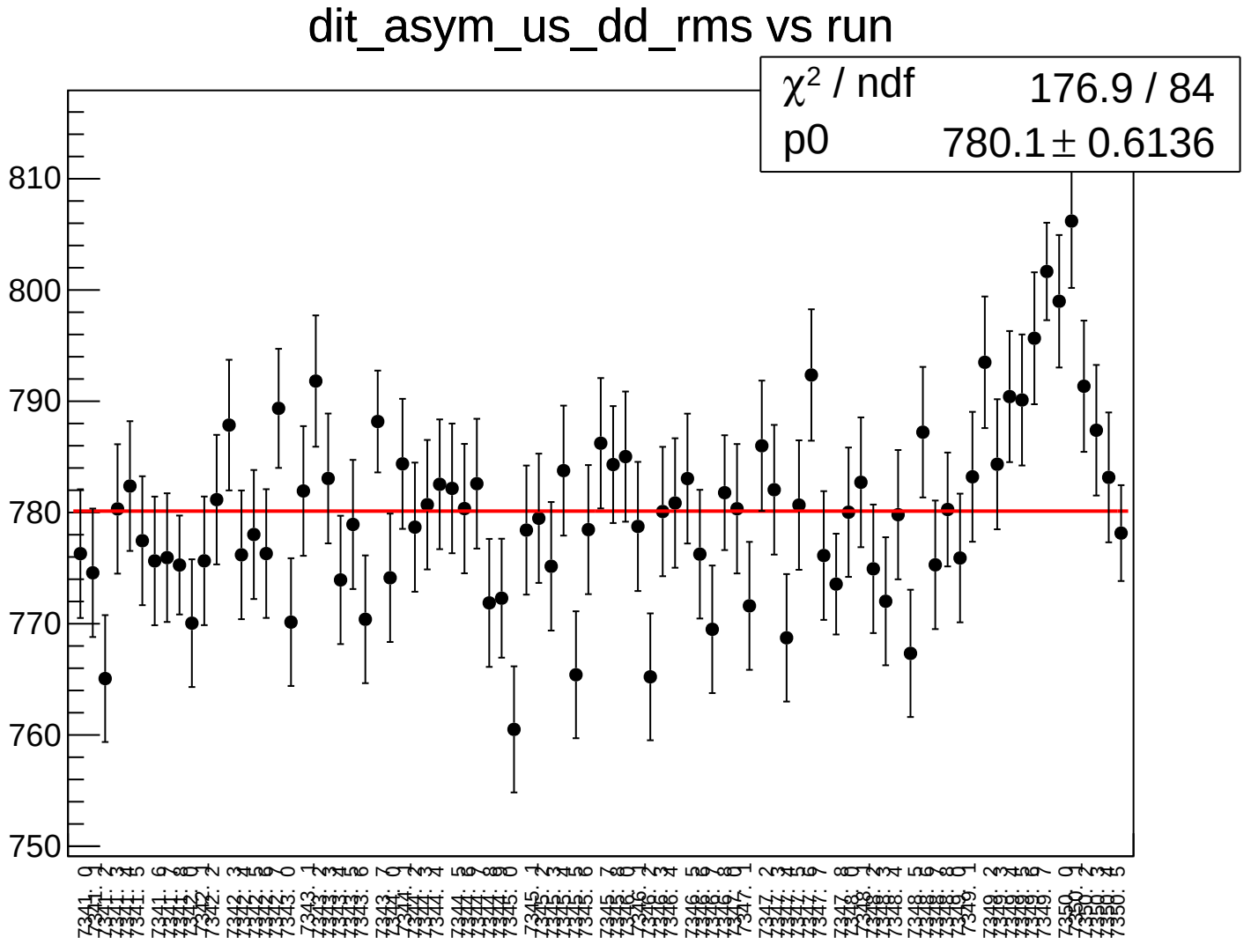

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.78 / 84
p0 −634 ± 523.9
pull
Entries 85
Mean 4901
Std Dev 0

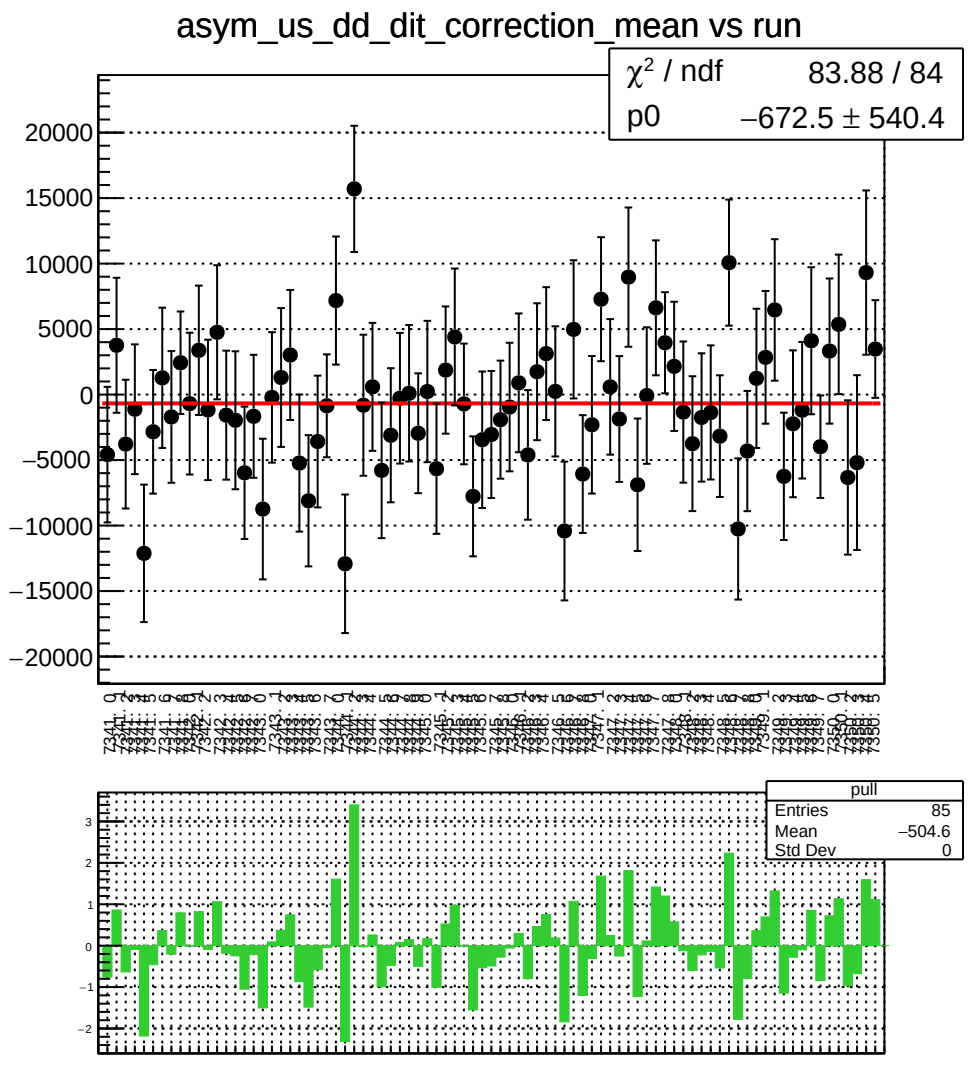

pull1D
Entries 85
Mean 0.0007079
Std Dev 0.9987

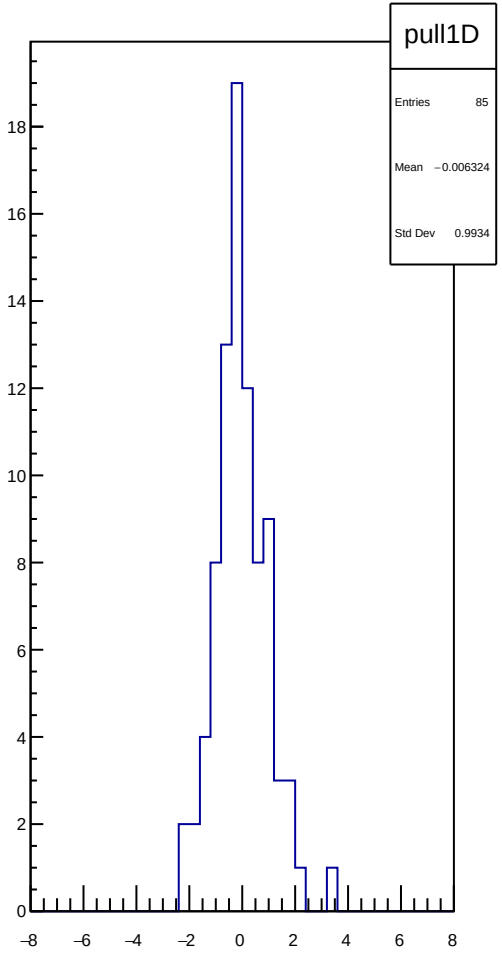

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 5222 / 84
p0 470.3 ± 0.3705
600
550
500
450
400

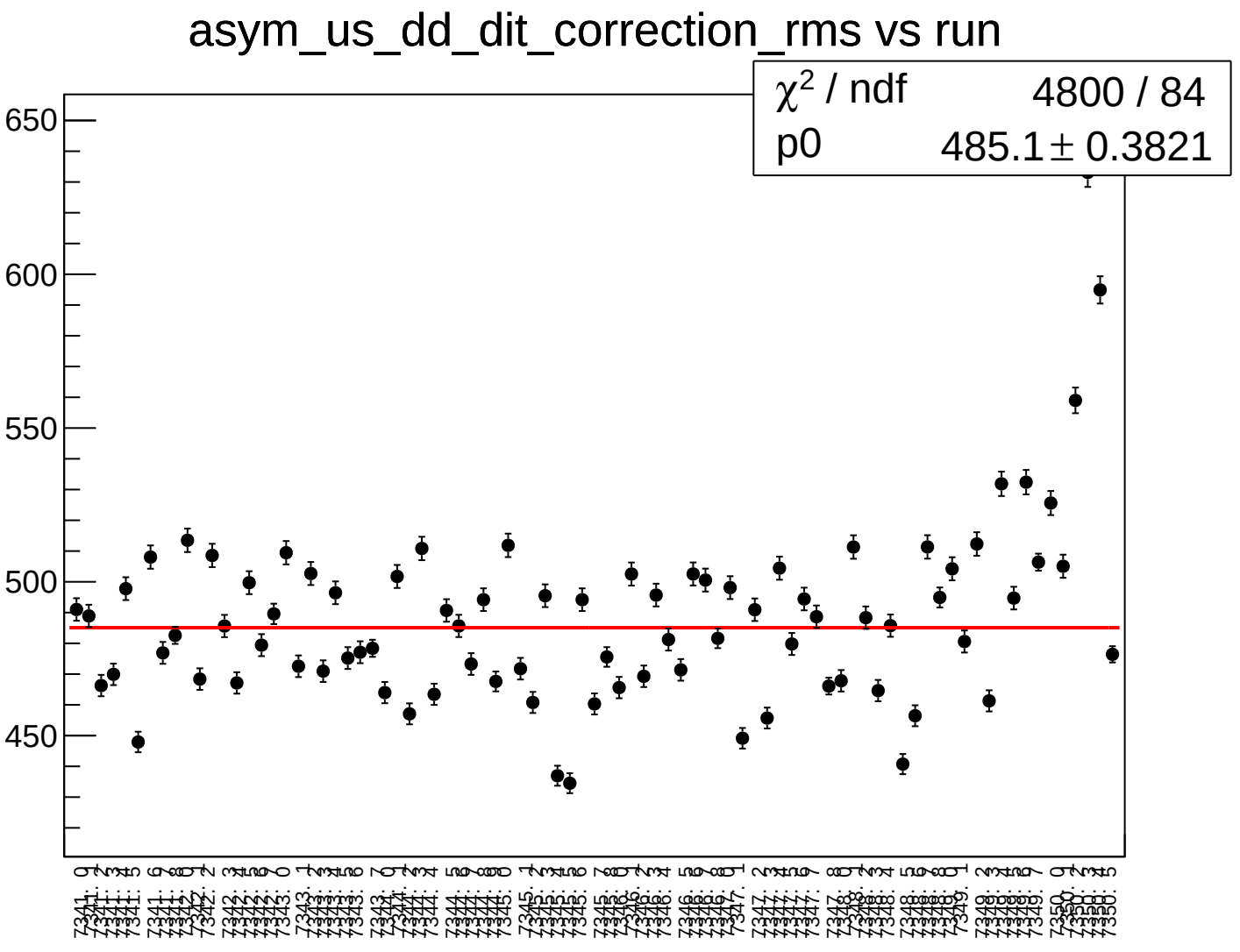

dit_asym_us_dd_mean vs run
χ² / ndf 78.43 / 84
p0 −401.3 ± 867.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −251.4
Std Dev 0
3
2
1
0
−1
−2

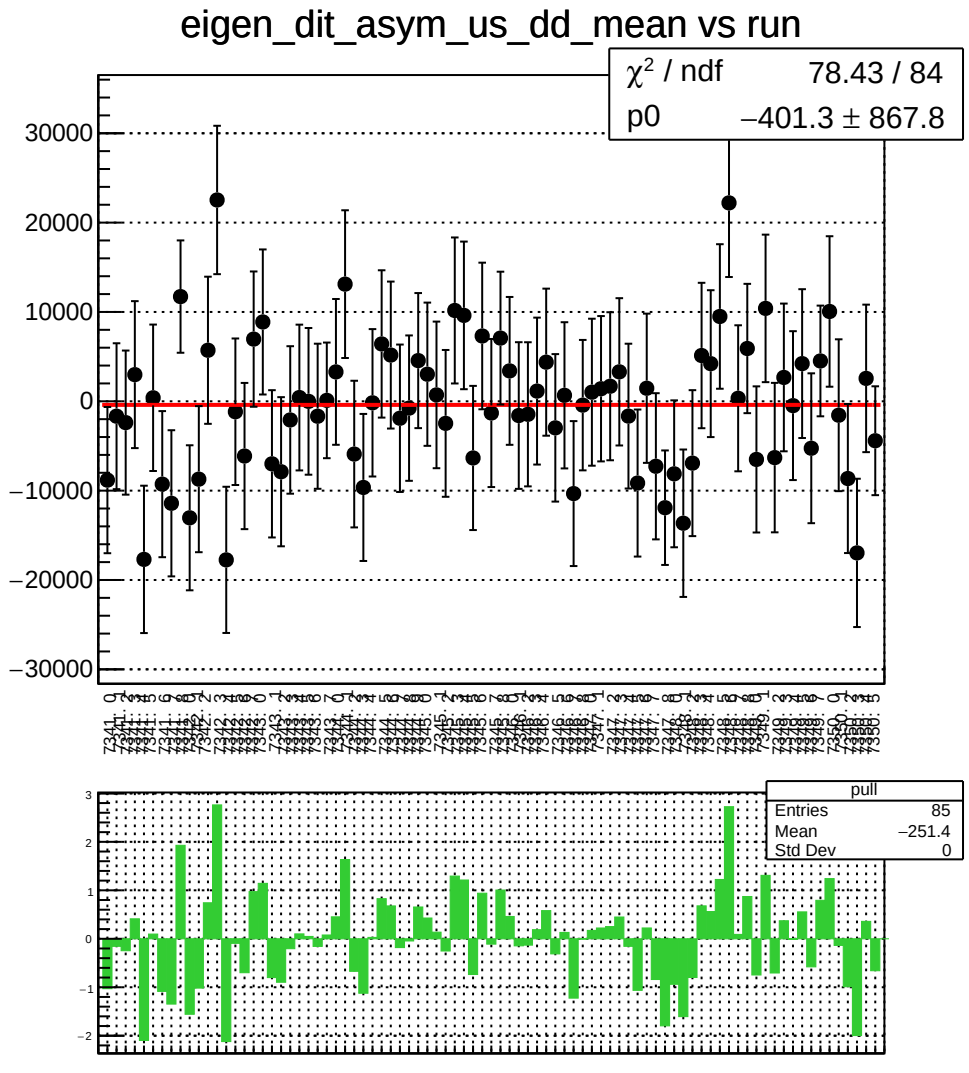

pull1D
Entries 85
Mean −0.00497
Std Dev 0.9606
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

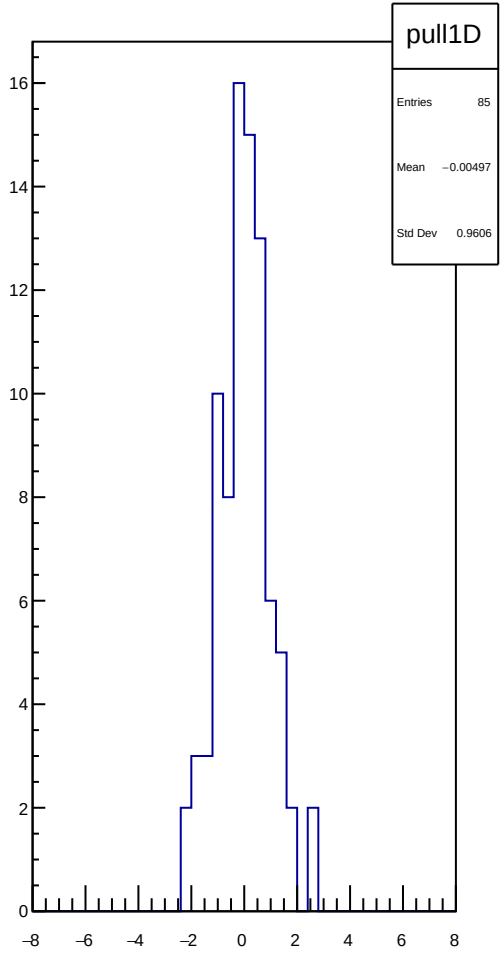

dit_asym_us_dd_rms vs run
χ² / ndf 176.9 / 84
p0 780.1 ± 0.6136
810
800
790
780
770
760
750

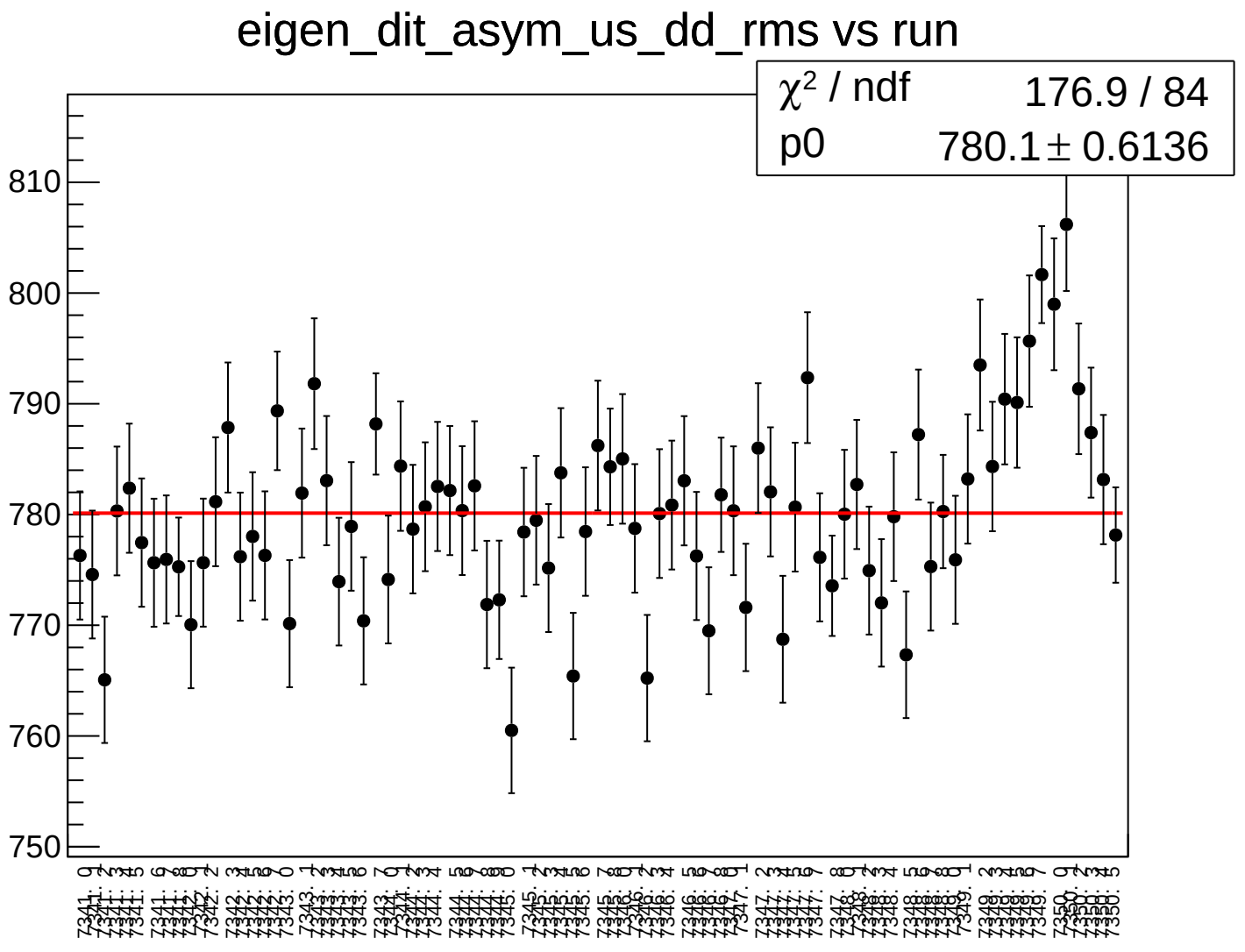

asym_us_dd_dit_correction_mean vs run
χ² / ndf 83.88 / 84
p0 −672.5 ± 540.4
pull
Entries 85
Mean −504.6
Std Dev 0

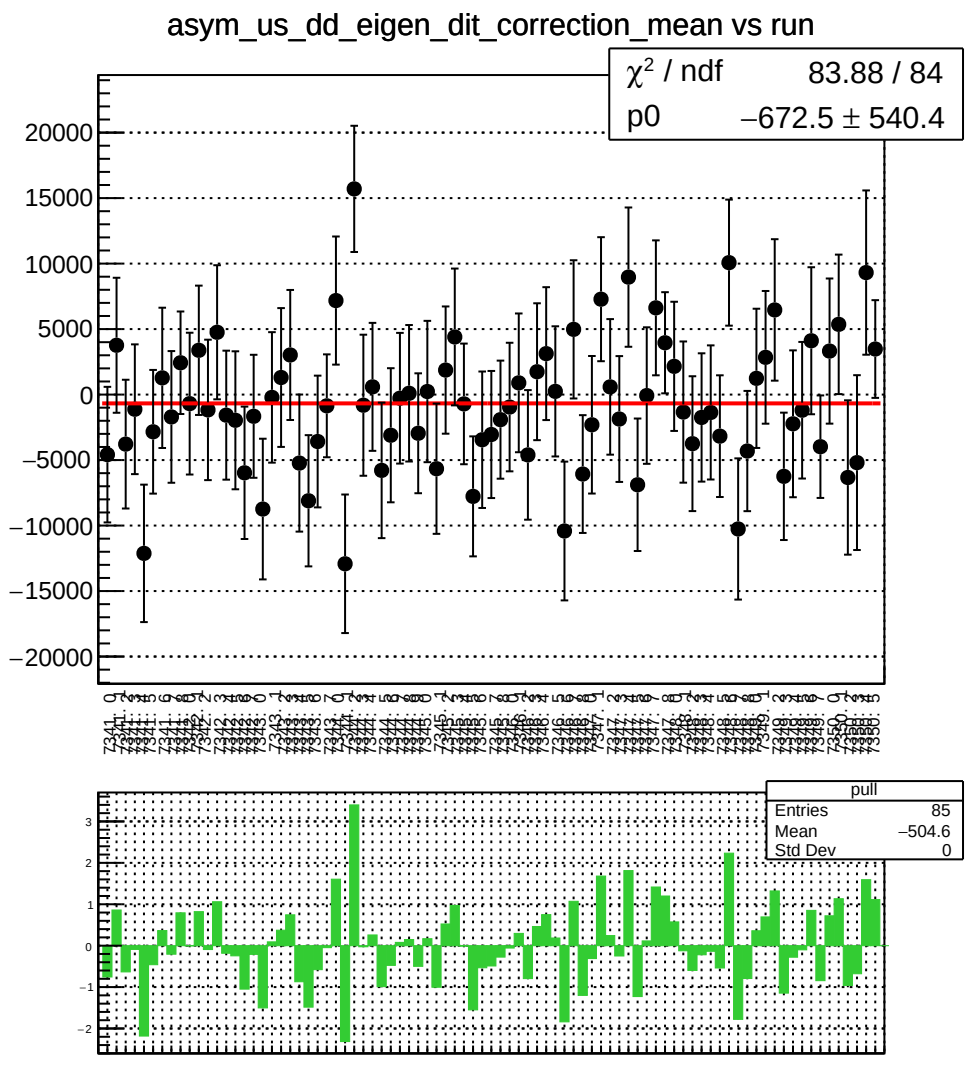

pull1D
Entries 85
Mean −0.006324
Std Dev 0.9934

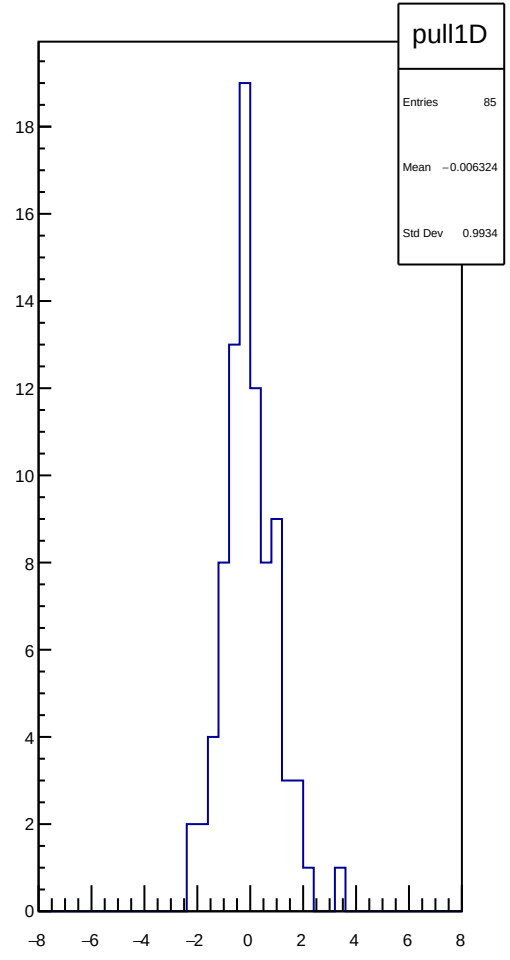

asym_us_dd_dit_correction_rms vs run
χ² / ndf 4800 / 84
p0 485.1 ± 0.3821
650
600
550
500
450

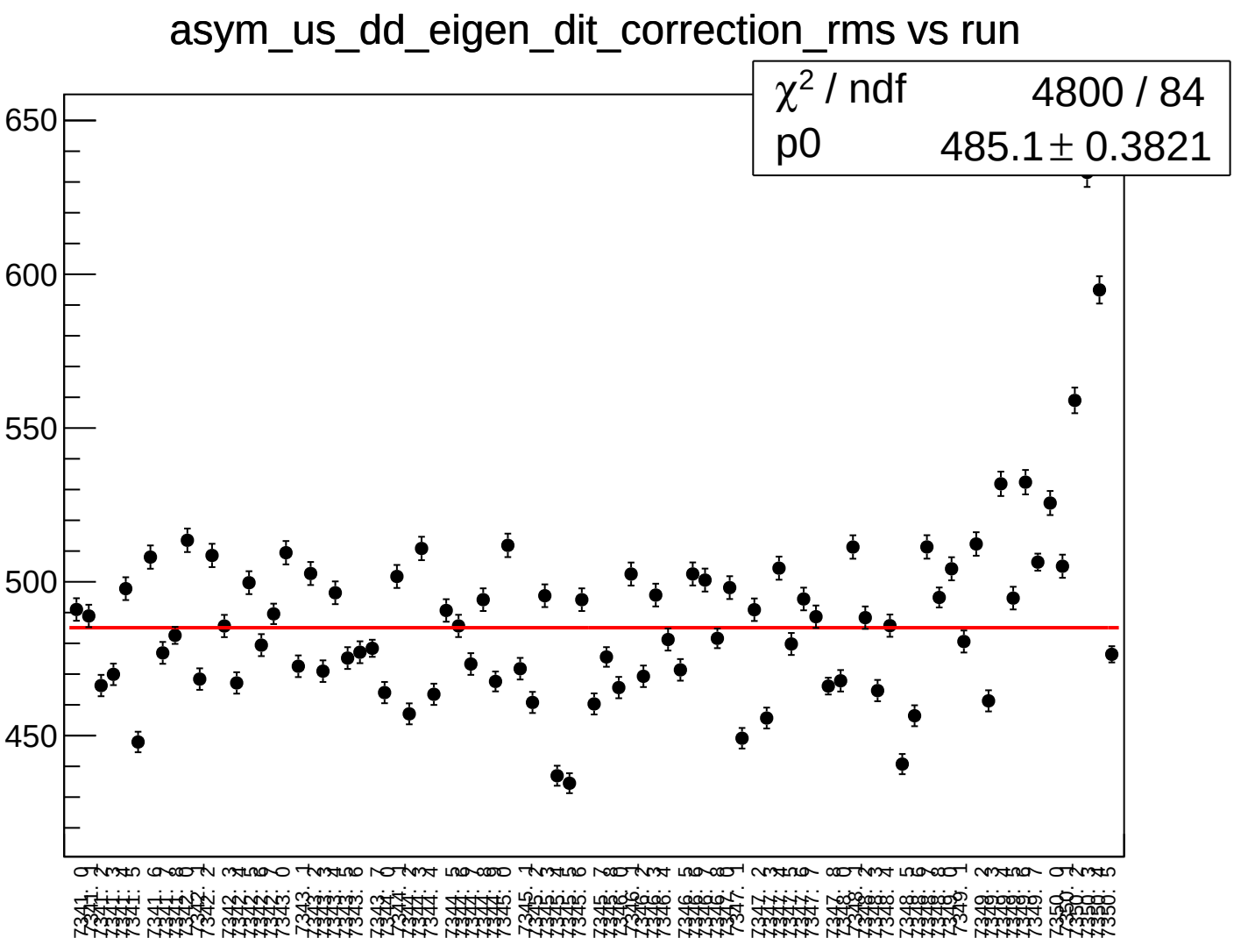

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 78.43 / 84
p0 −401.3 ± 867.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −251.4
Std Dev 0
3
2
1
0
−1
−2

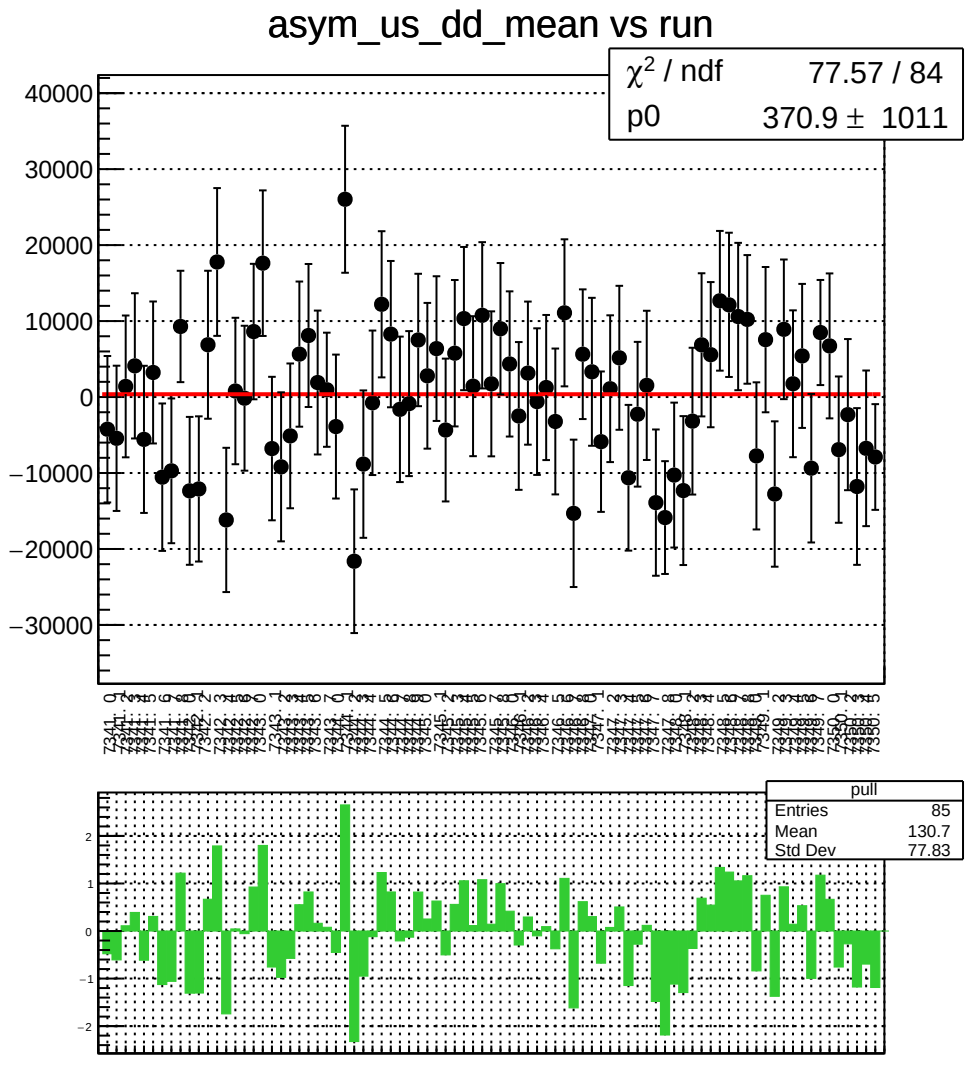

pull1D
Entries 85
Mean −0.00497
Std Dev 0.9606
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

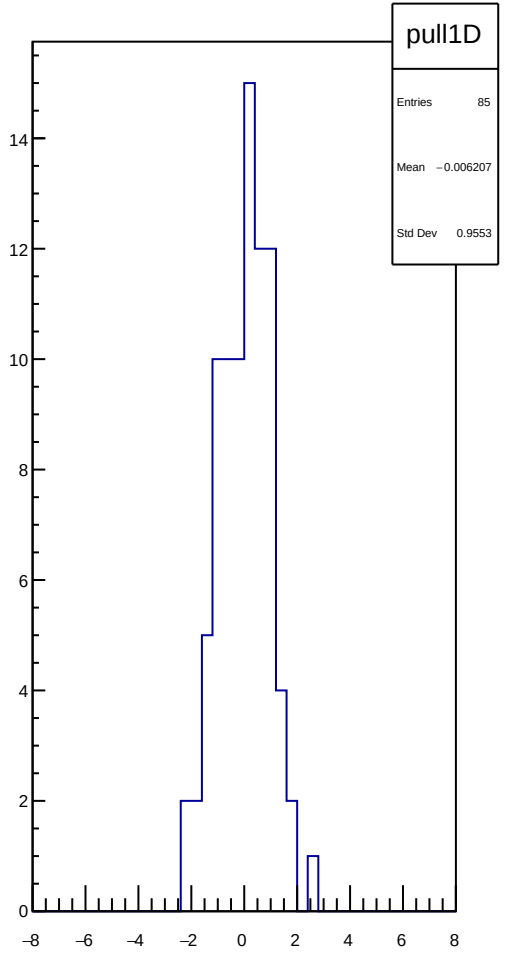

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 176.9 / 84
p0 780.1 ± 0.6136
810
800
790
780
770
760
750

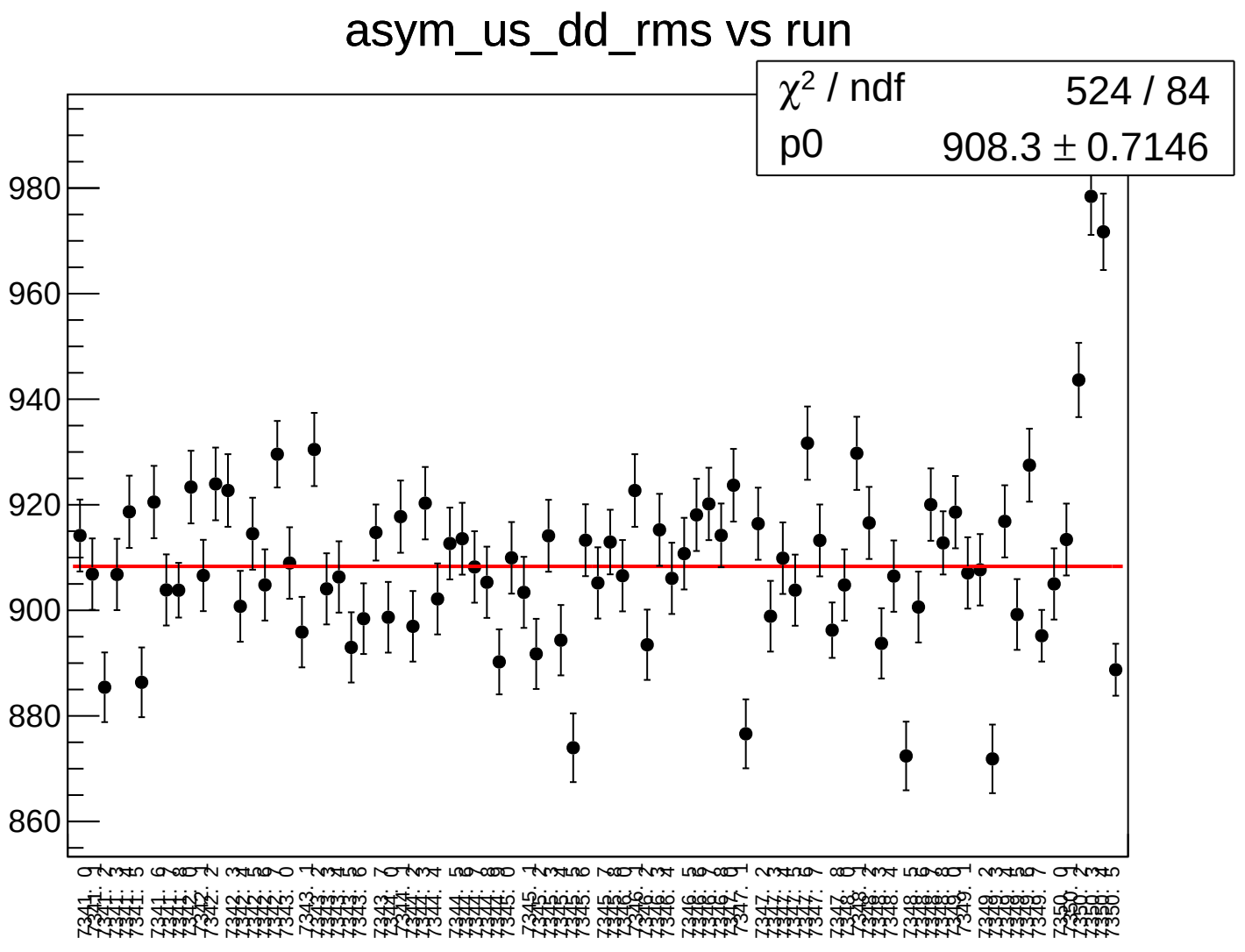

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.88 / 84
p0 −672.5 ± 540.4
pull
Entries 85
Mean −504.6
Std Dev 0

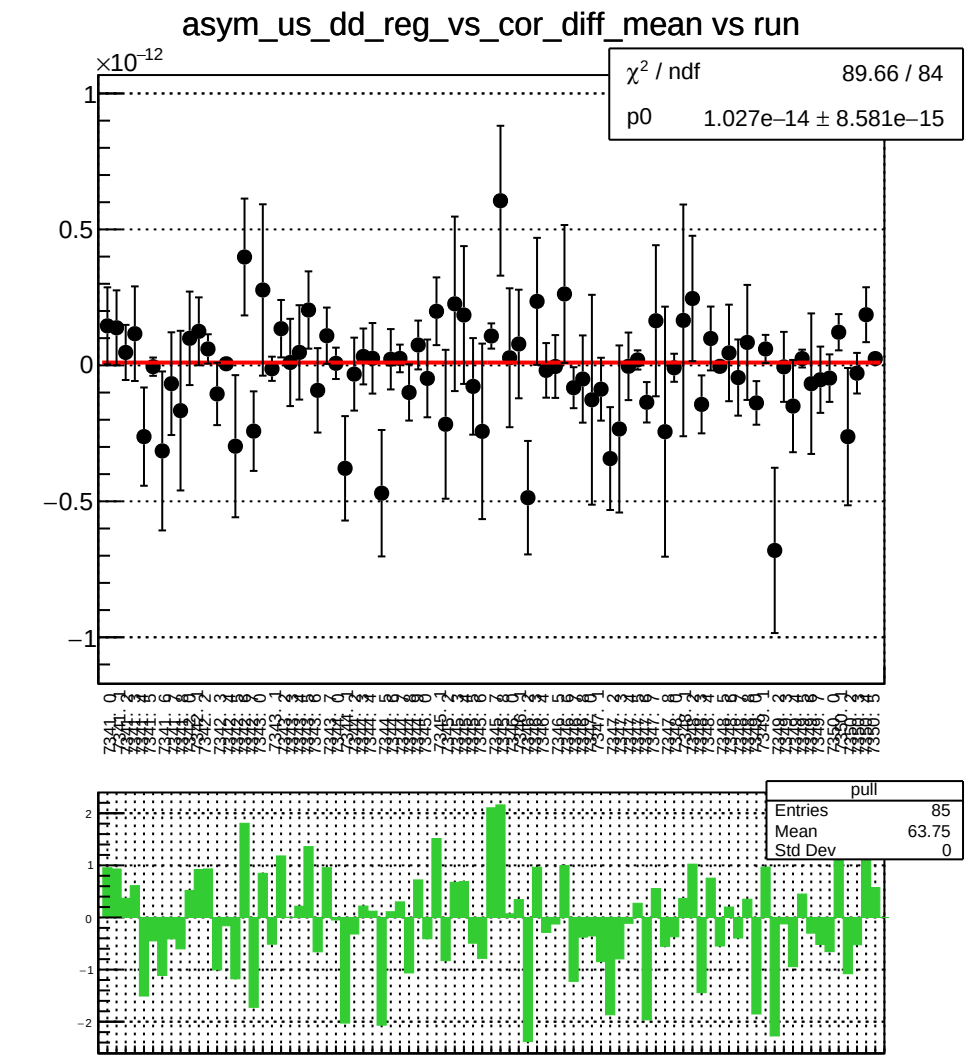

pull1D
Entries 85
Mean −0.006324
Std Dev 0.9934

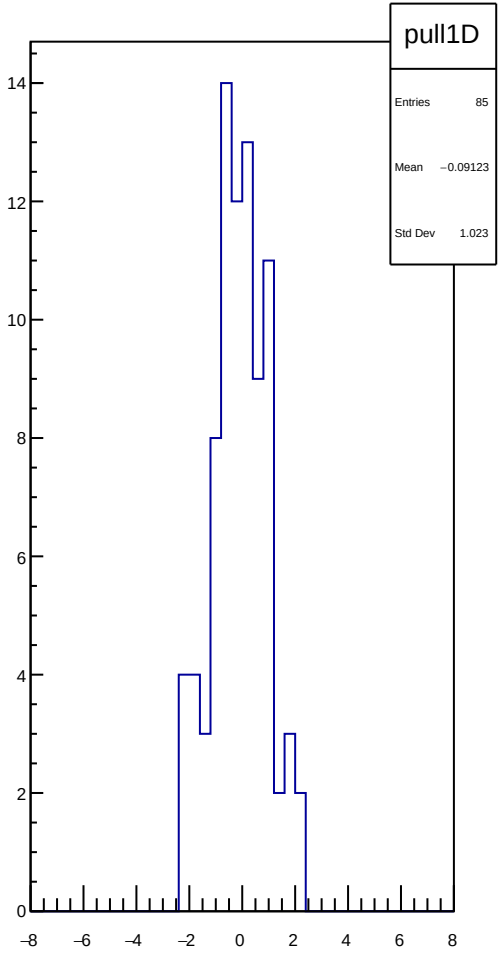

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 4800 / 84
p0 485.1 ± 0.3821
650
600
550
500
450

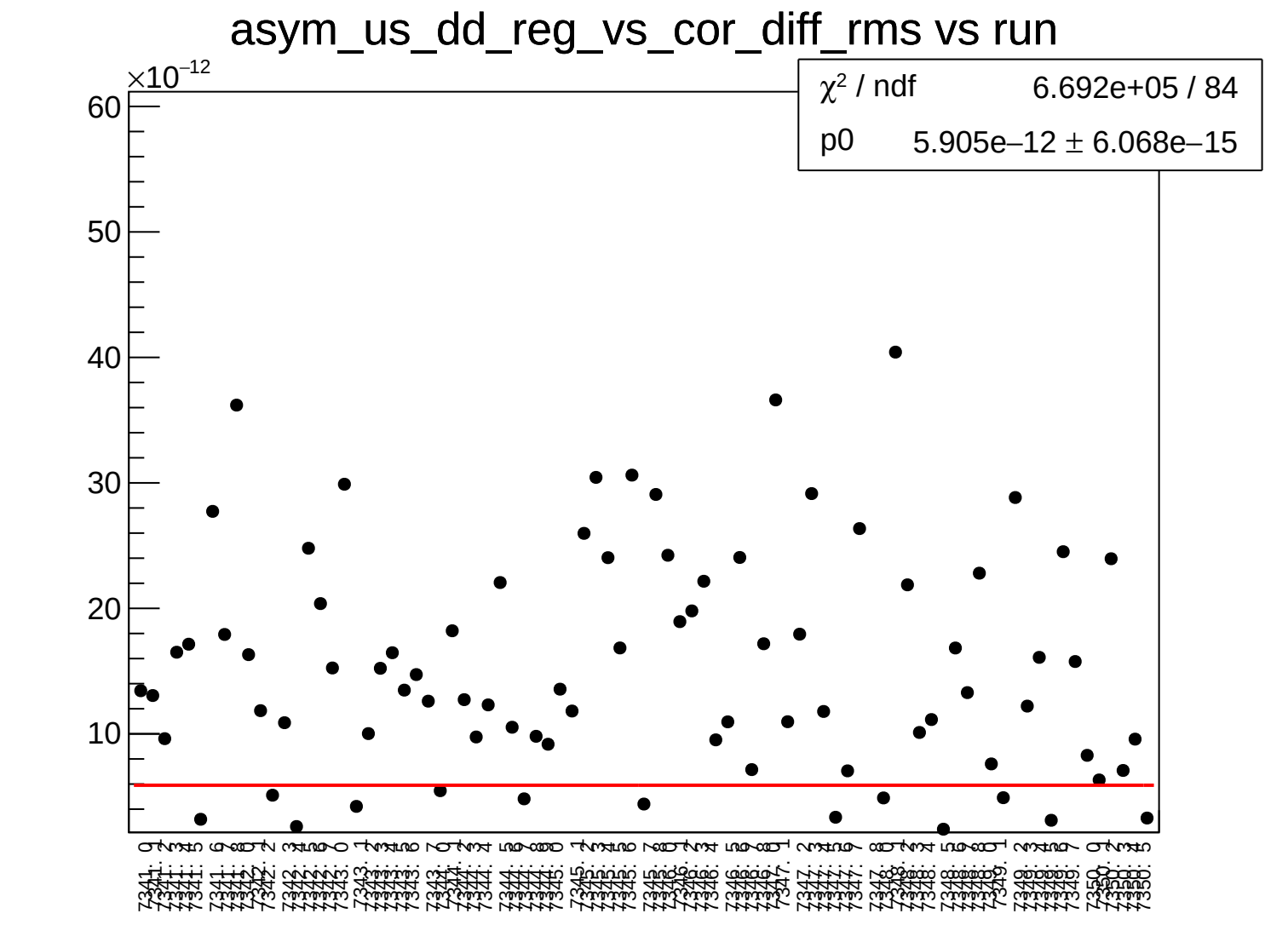

asym_us_dd_mean vs run
χ² / ndf 77.57 / 84
p0 370.9 ± 1011
pull
Entries 85
Mean 130.7
Std Dev 77.83

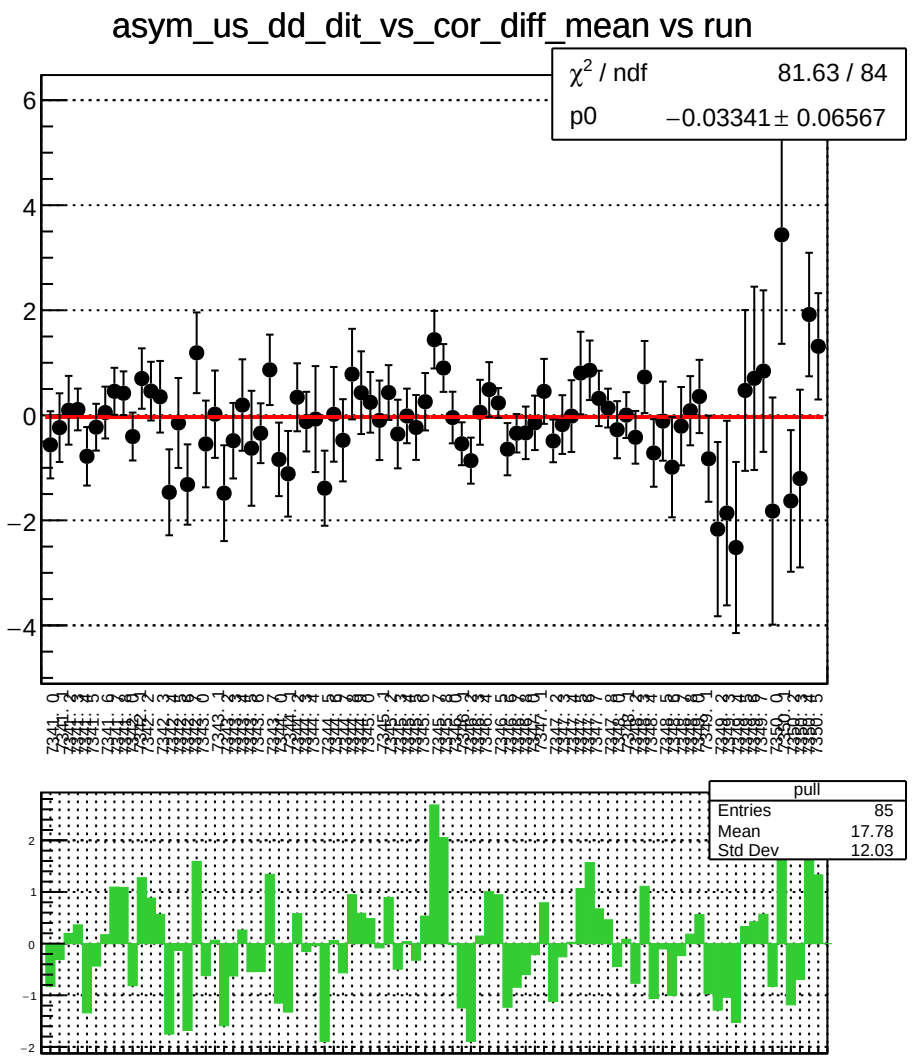

pull1D
Entries 85
Mean −0.006207
Std Dev 0.9553

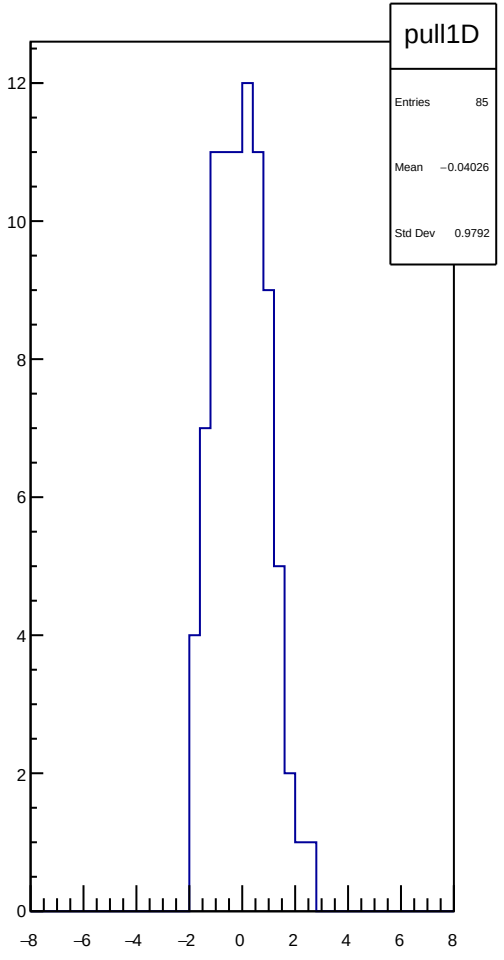

asym_us_dd_rms vs run
χ^2 / ndf 524 / 84
p0 908.3 ± 0.7146
980
960
940
920
900
880
860

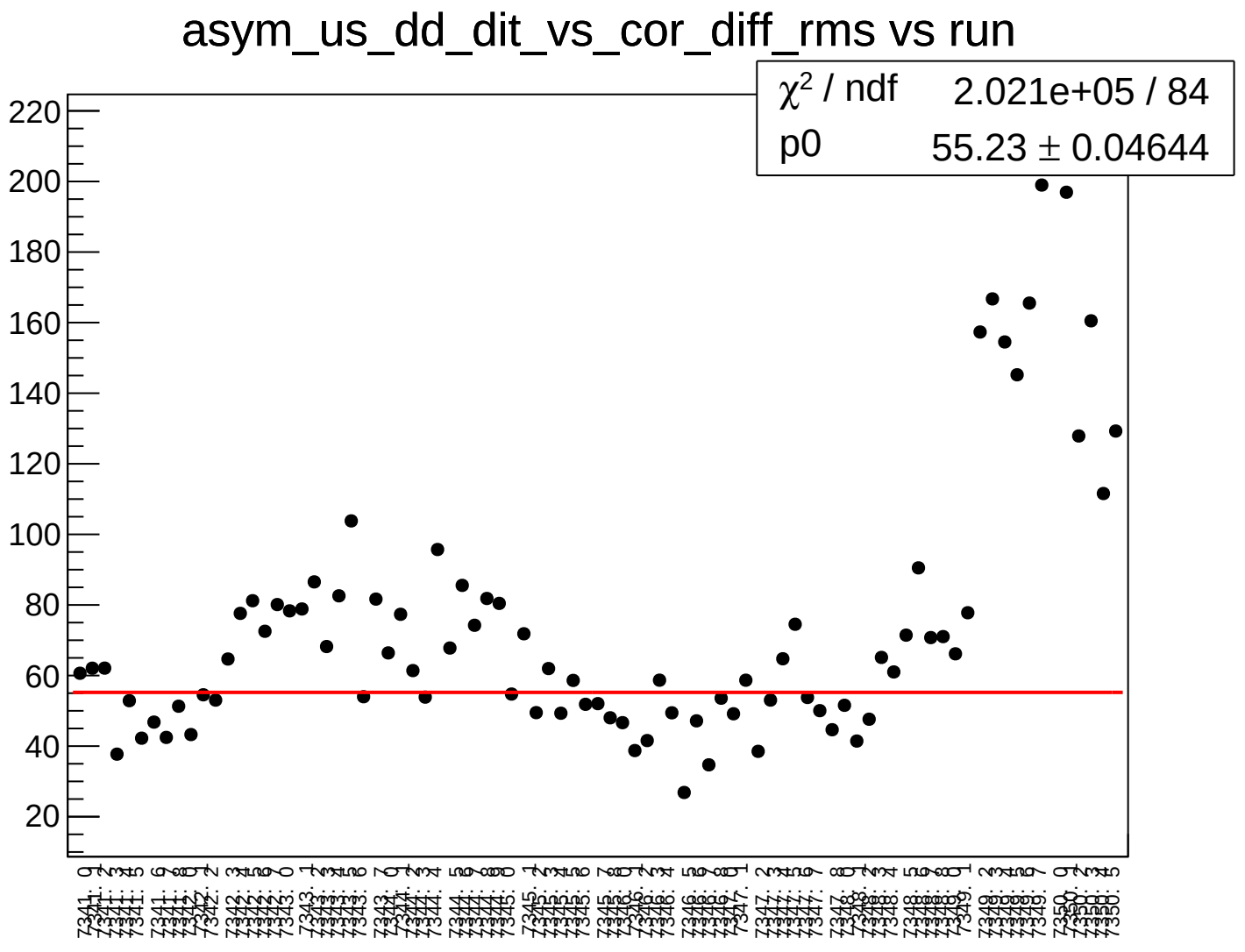

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.66 / 84
p0 1.027e−14 ± 8.581e−15
pull
Entries 85
Mean 63.75
Std Dev 0

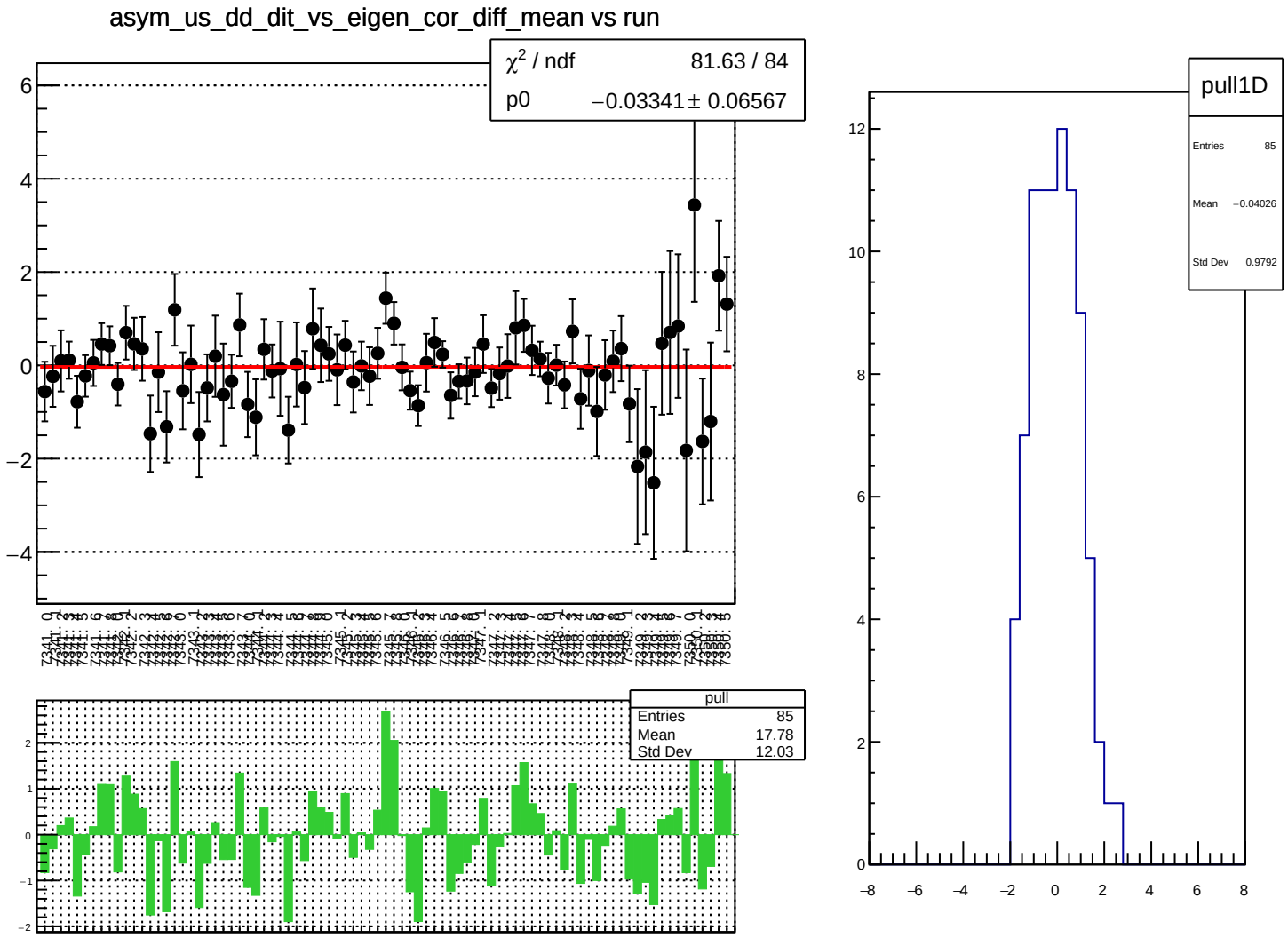

pull1D
Entries 85
Mean −0.09123
Std Dev 1.023

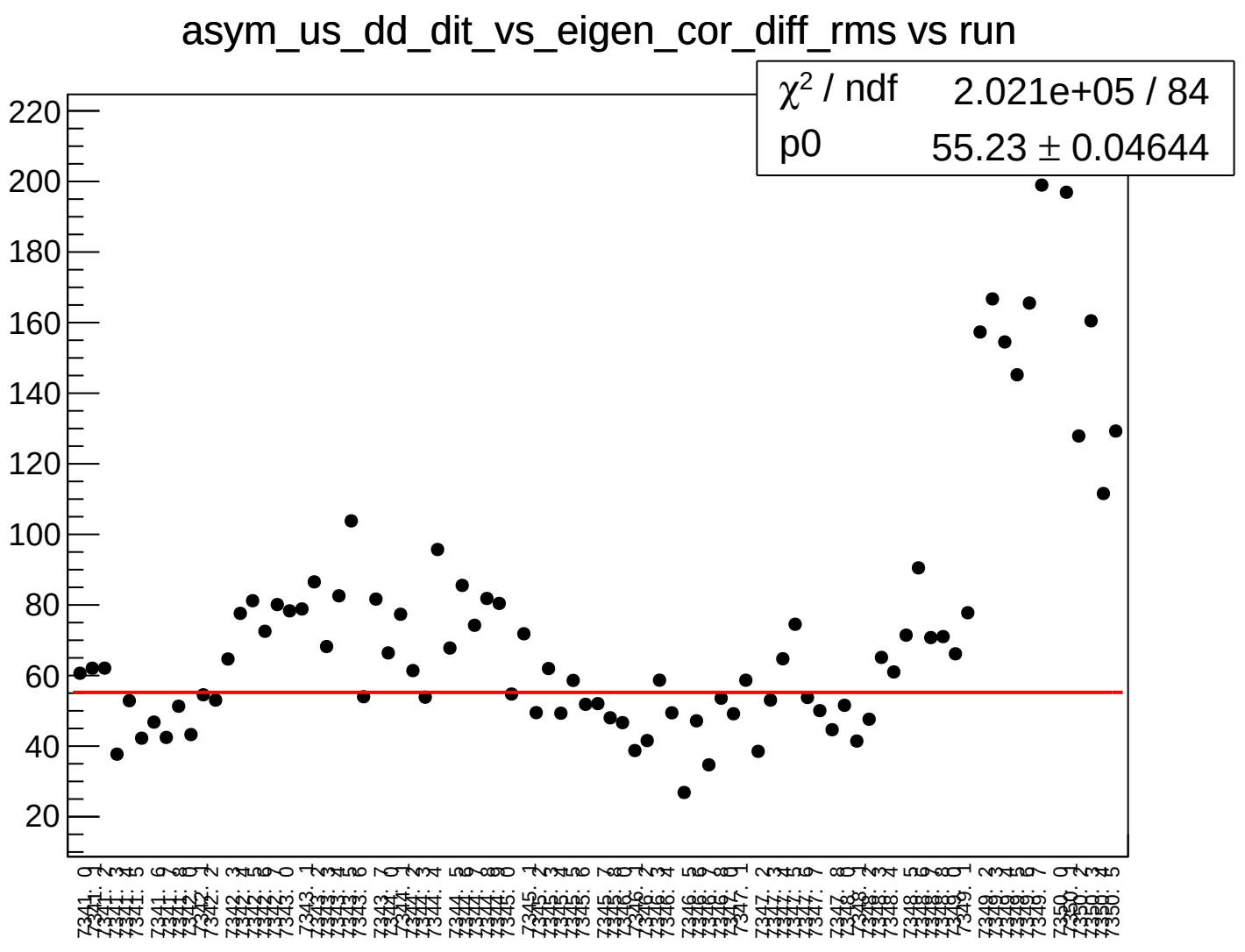

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.692e+05 / 84
p0 5.905e−12 ± 6.068e−15
60
50
40
30
20
10

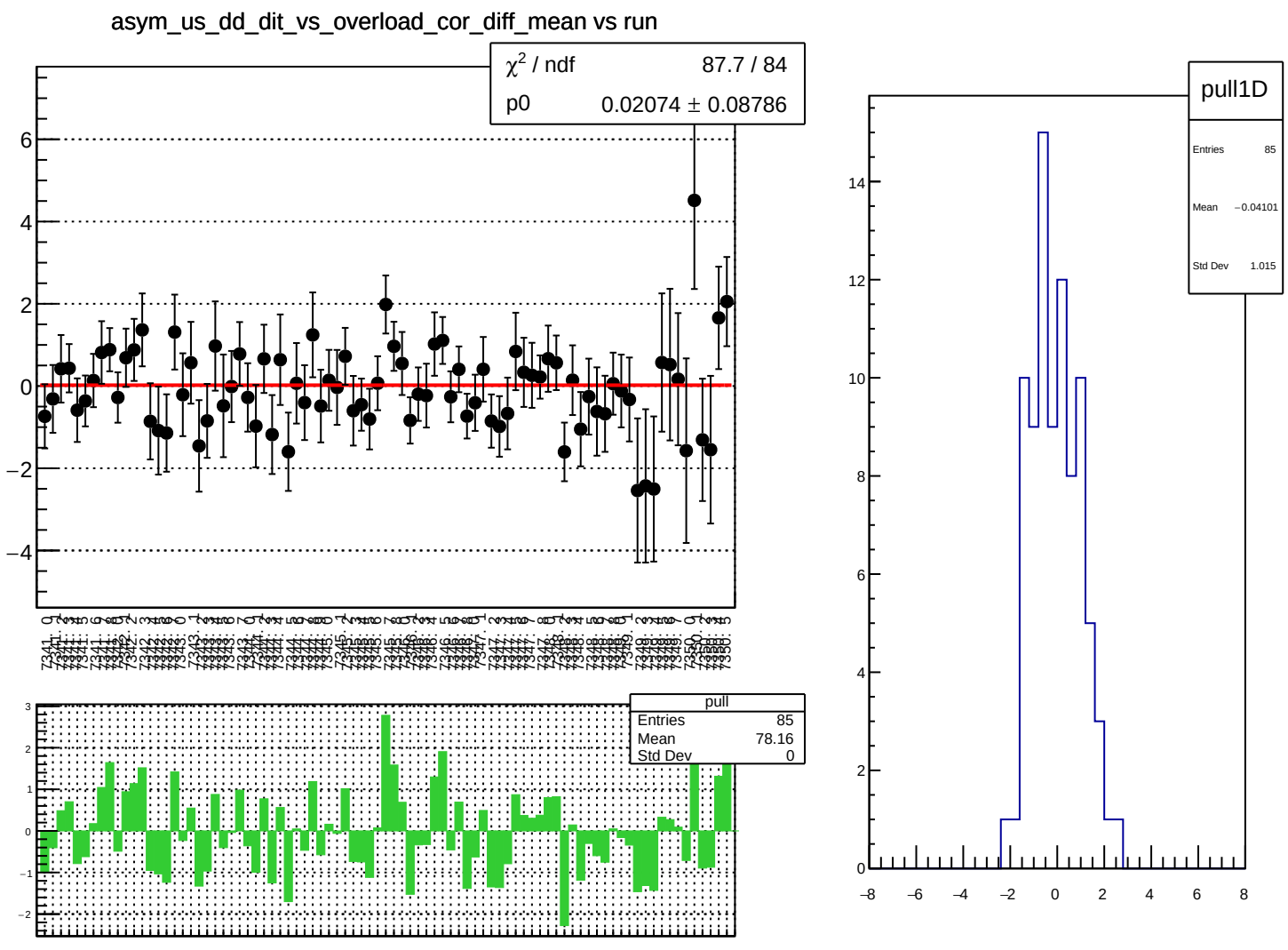

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.63 / 84
p0 −0.03341 ± 0.06567
pull
Entries 85
Mean 17.78
Std Dev 12.03

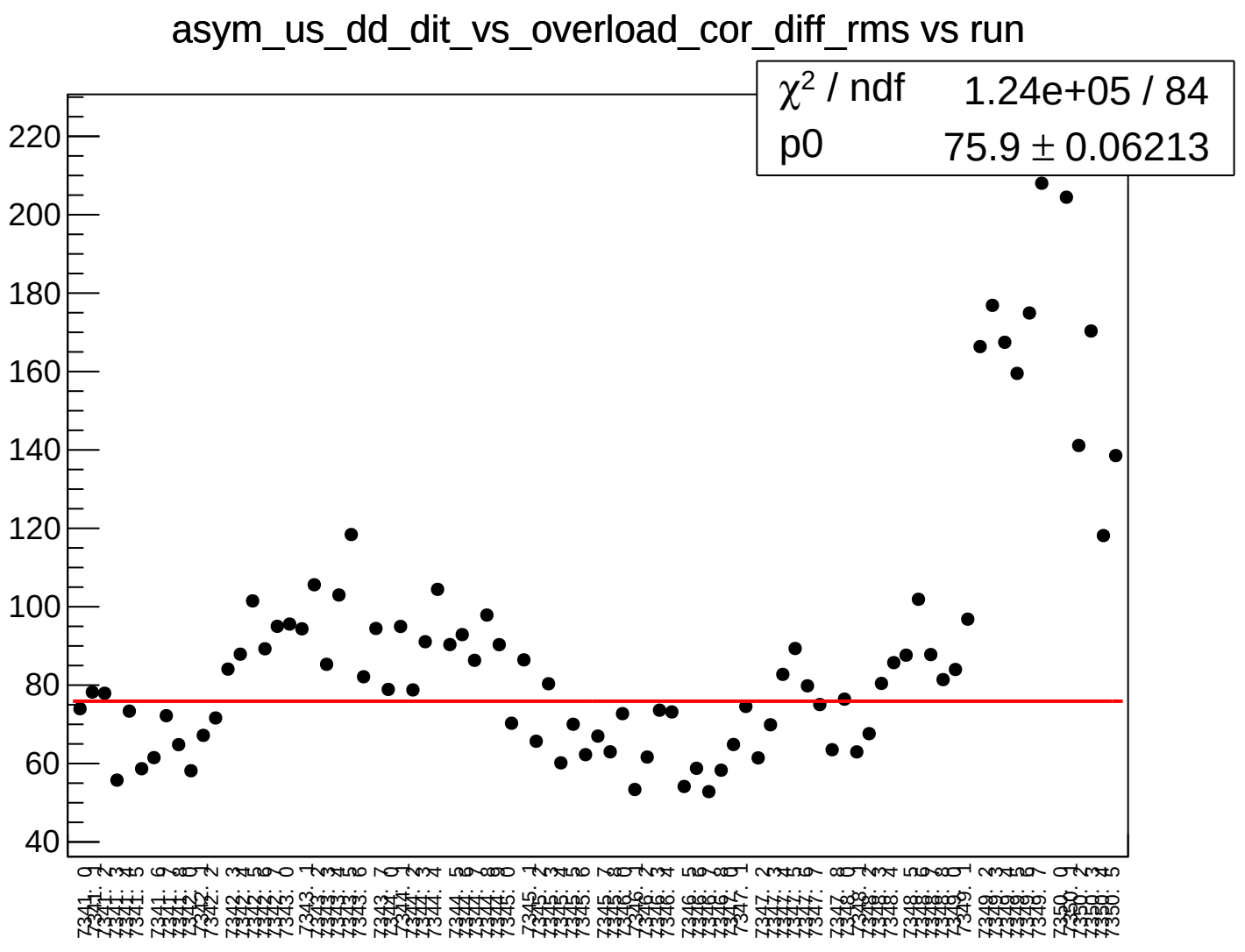

pull1D
Entries 85
Mean −0.04026
Std Dev 0.9792

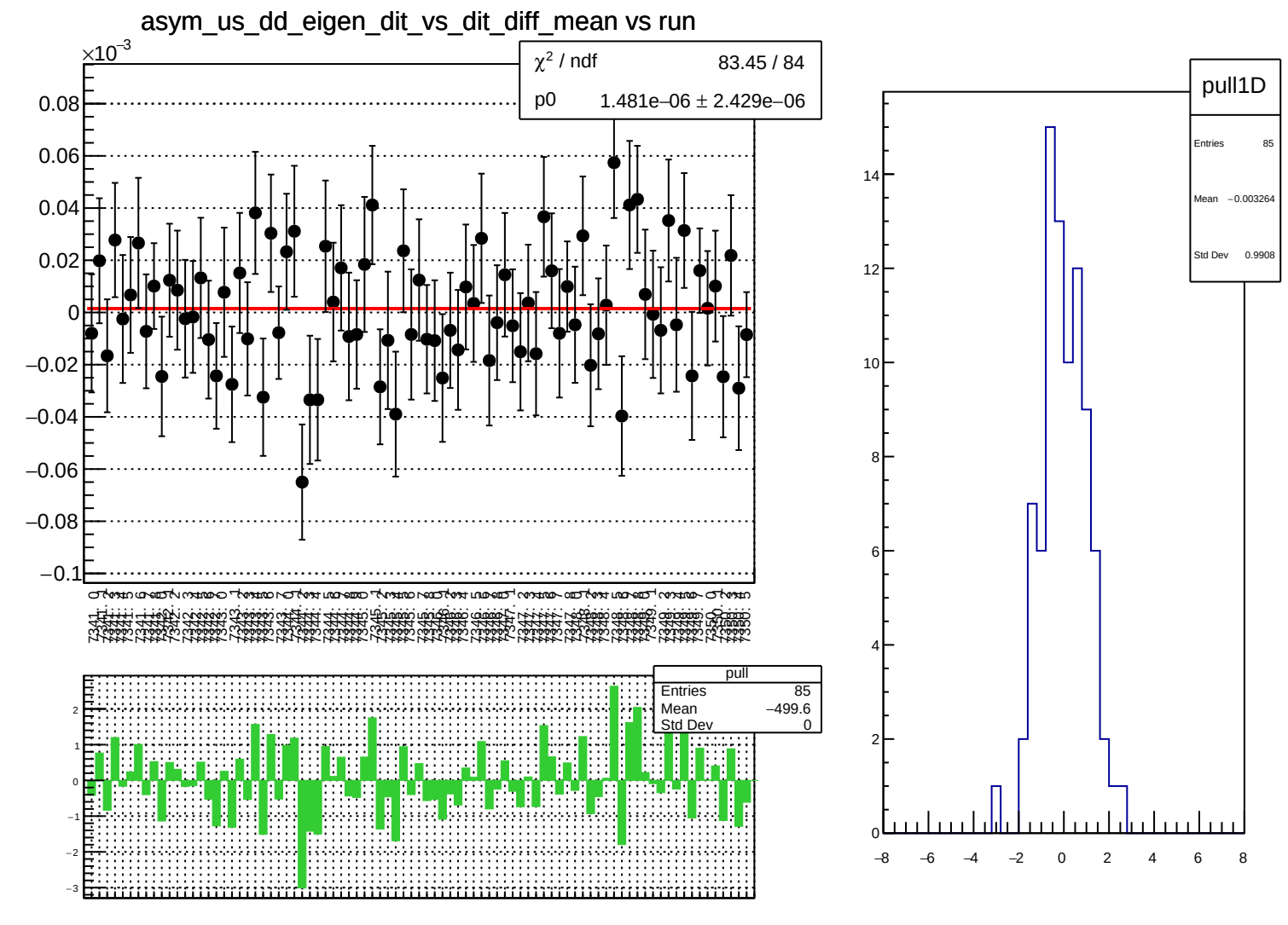

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.021e+05 / 84
p0 55.23 ± 0.04644
220
200
180
160
140
120
100
80
60
40
20

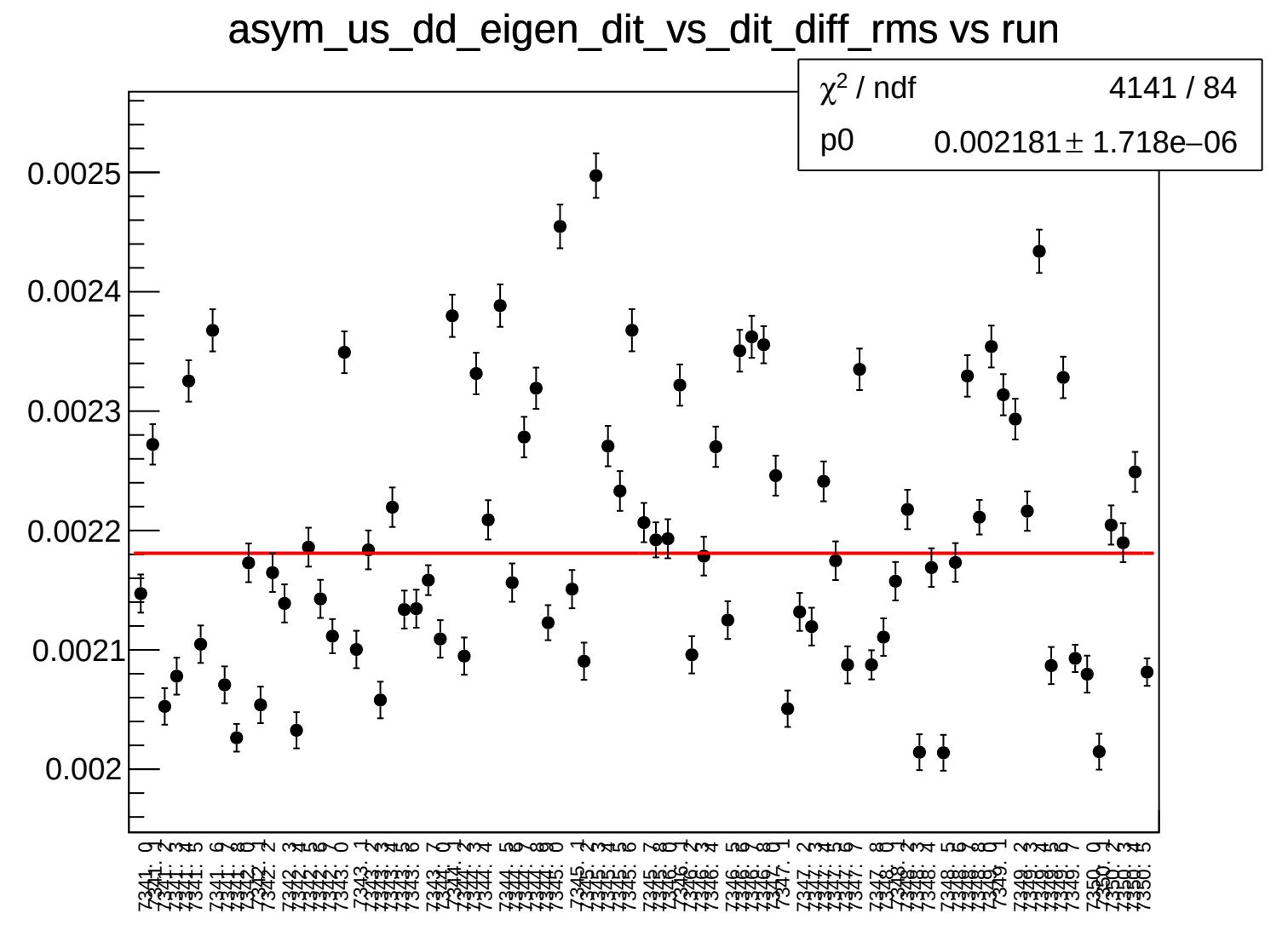

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.63 / 84
p0 −0.03341 ± 0.06567
pull
Entries 85
Mean 17.78
Std Dev 12.03
pull1D
Entries 85
Mean −0.04026
Std Dev 0.9792

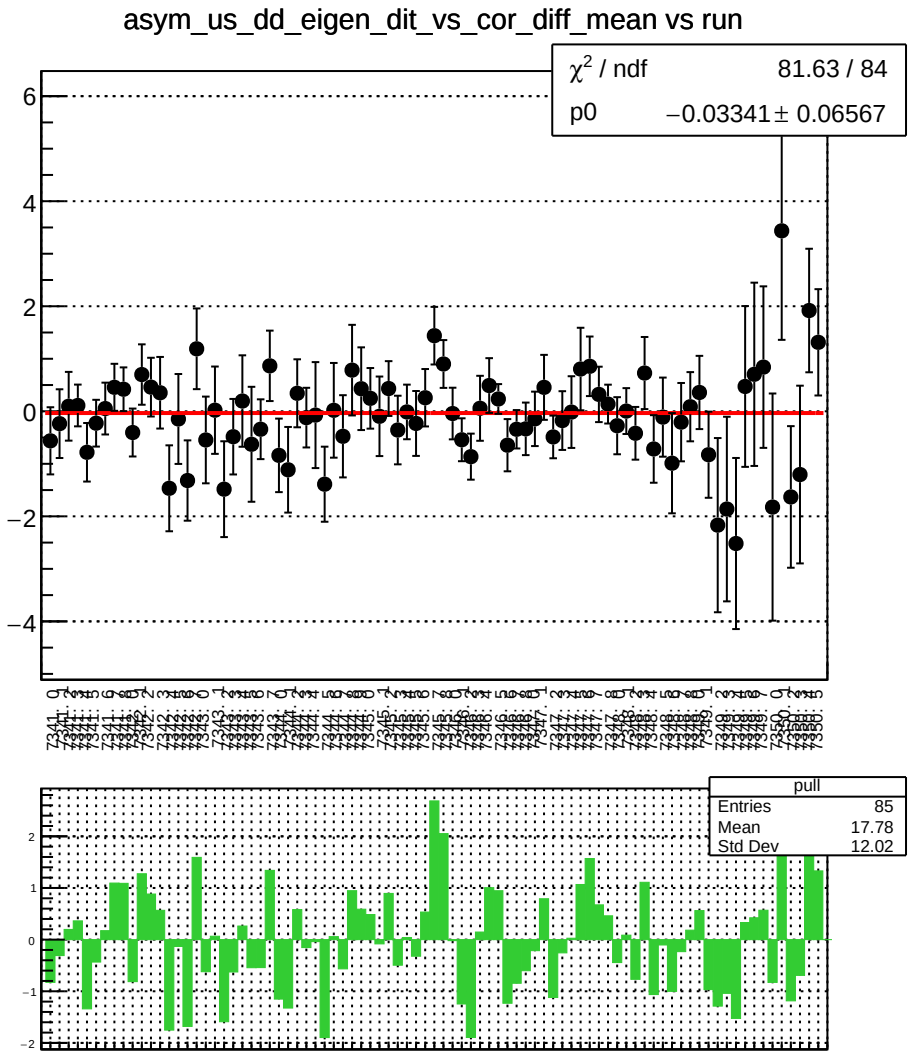

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.021e+05 / 84
p0 55.23 ± 0.04644
220
200
180
160
140
120
100
80
60
40
20

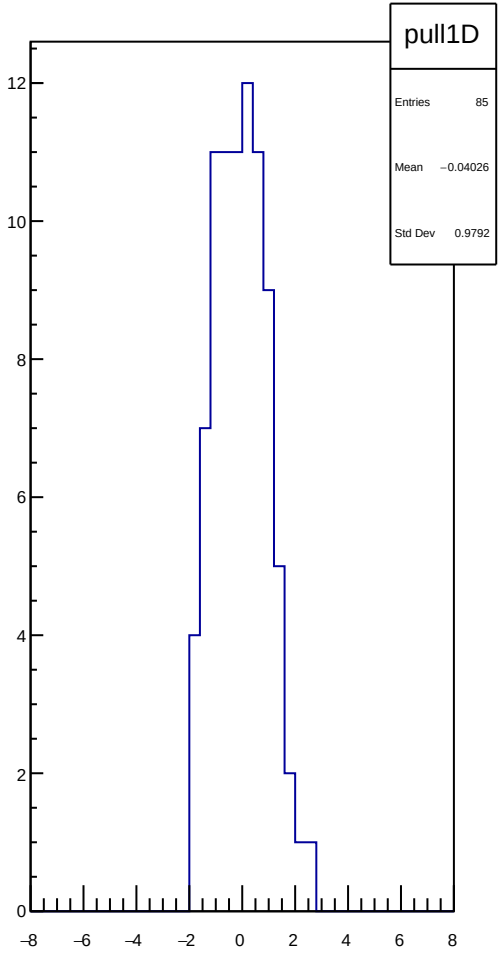

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.7 / 84
p0 0.02074 ± 0.08786
pull
Entries 85
Mean 78.16
Std Dev 0
pull1D
Entries 85
Mean −0.04101
Std Dev 1.015

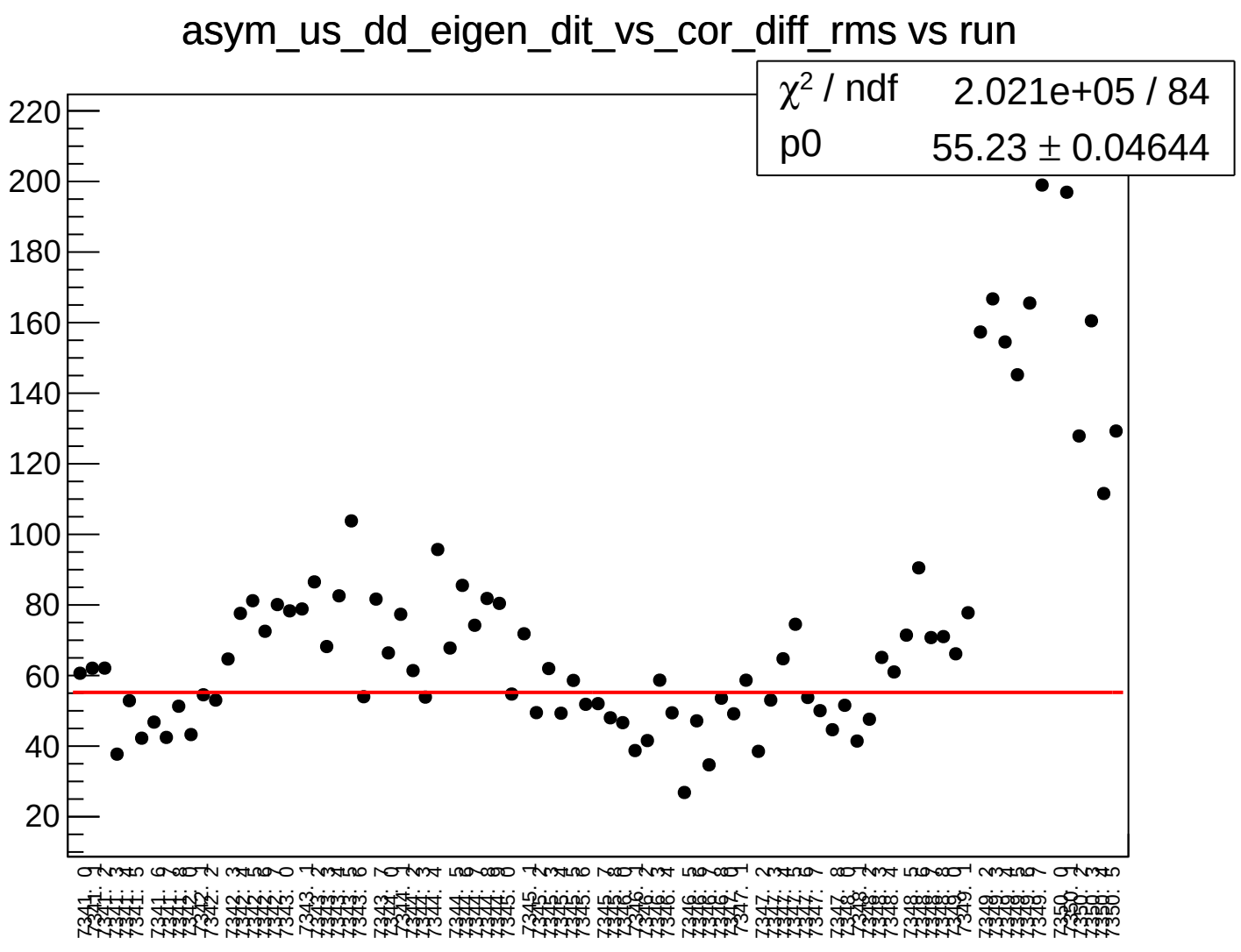

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.24e+05 / 84
p0 75.9 ± 0.06213
220
200
180
160
140
120
100
80
60
40

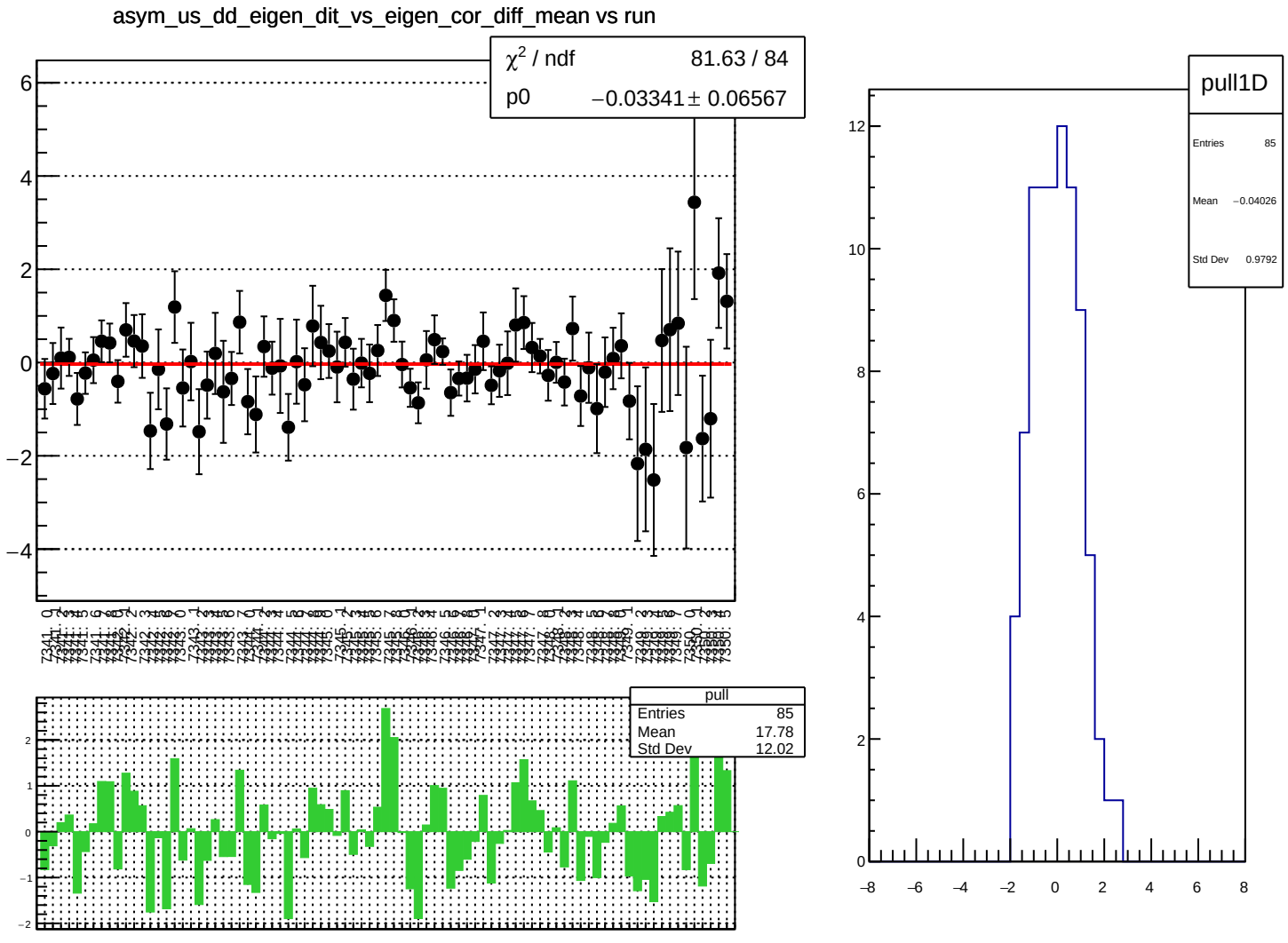

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.45 / 84
p0 1.481e−06 ± 2.429e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 85
Mean −499.6
Std Dev 0
pull1D
Entries 85
Mean −0.003264
Std Dev 0.9908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

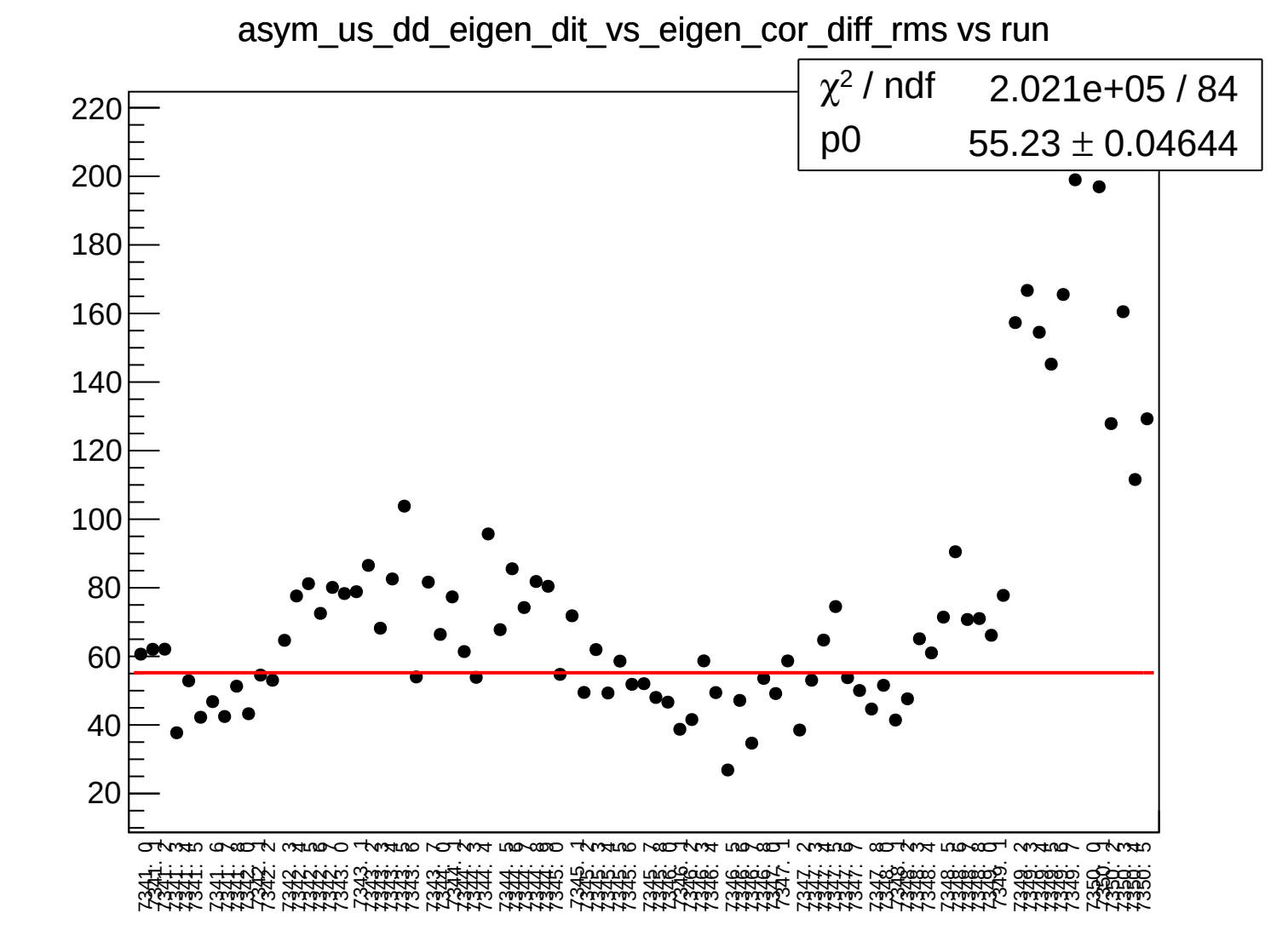

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4141 / 84
p0 0.002181 ± 1.718e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

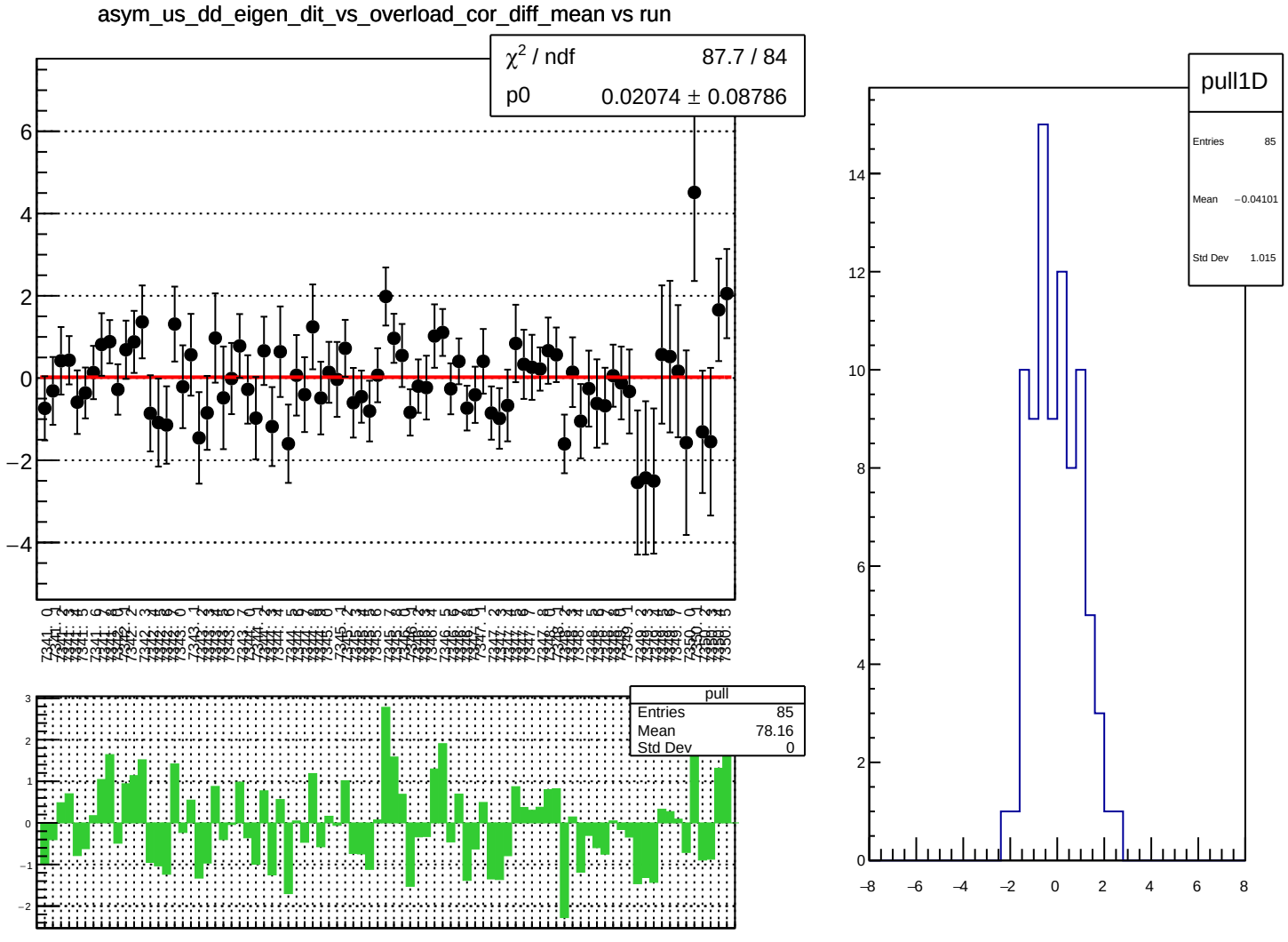

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.63 / 84
p0 −0.03341 ± 0.06567
pull
Entries 85
Mean 17.78
Std Dev 12.02

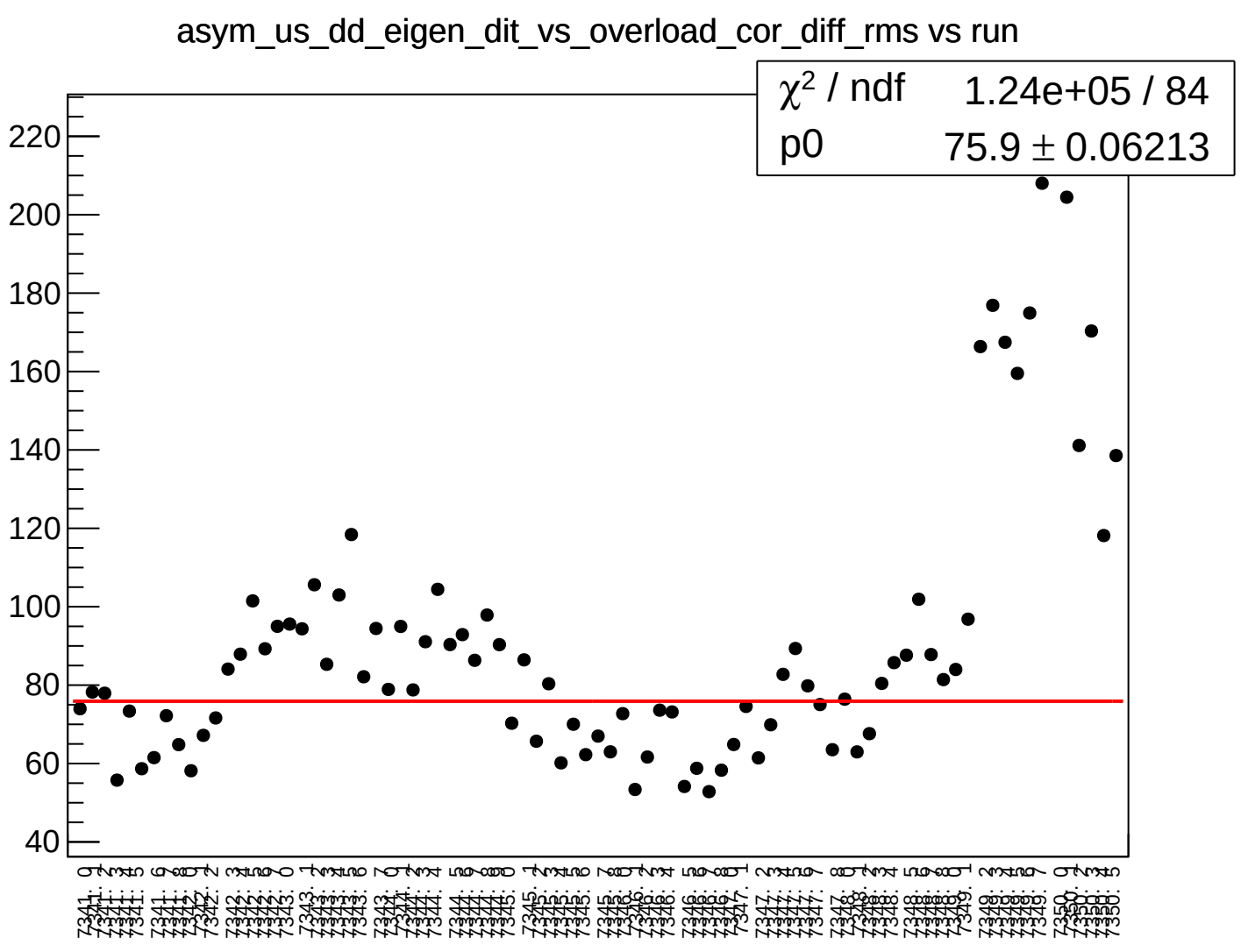

pull1D
Entries 85
Mean −0.04026
Std Dev 0.9792

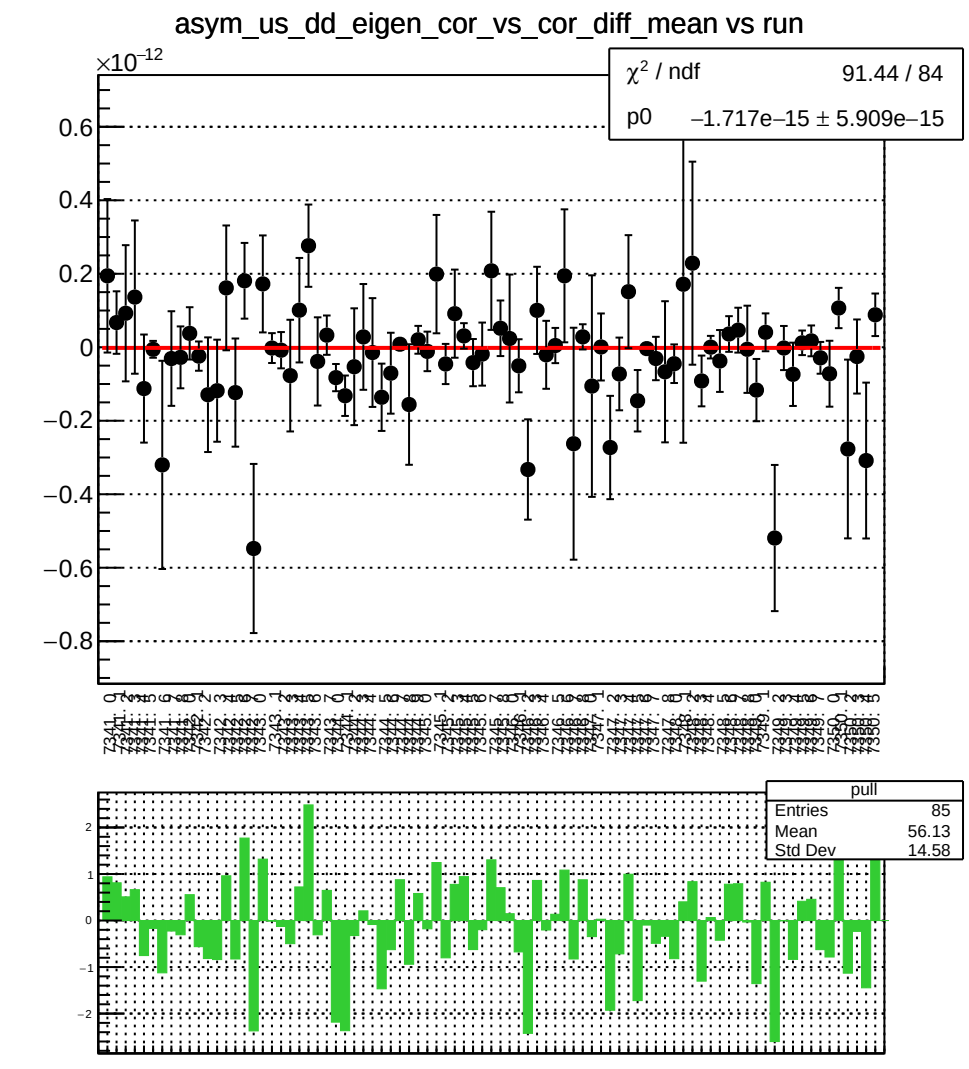

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.021e+05 / 84
p0 55.23 ± 0.04644
220
200
180
160
140
120
100
80
60
40
20

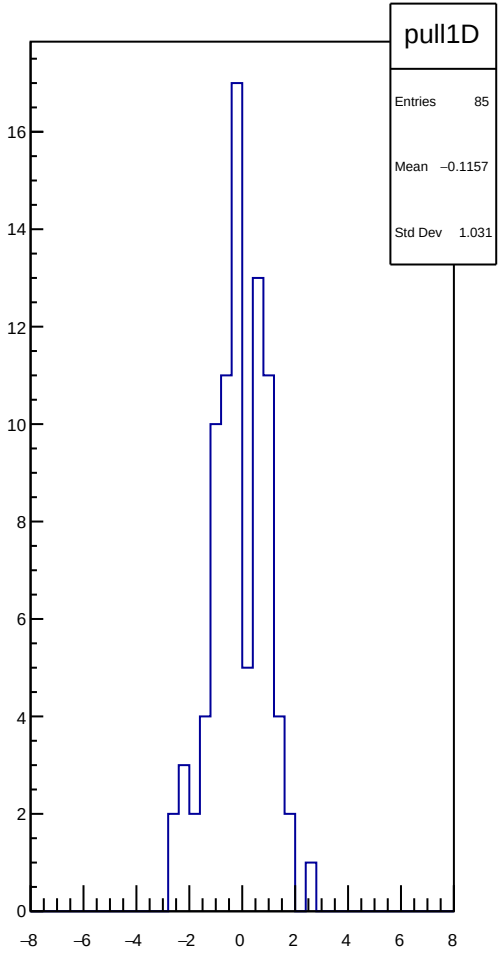

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.63 / 84
p0 −0.03341 ± 0.06567
pull
Entries 85
Mean 17.78
Std Dev 12.02
pull1D
Entries 85
Mean −0.04026
Std Dev 0.9792

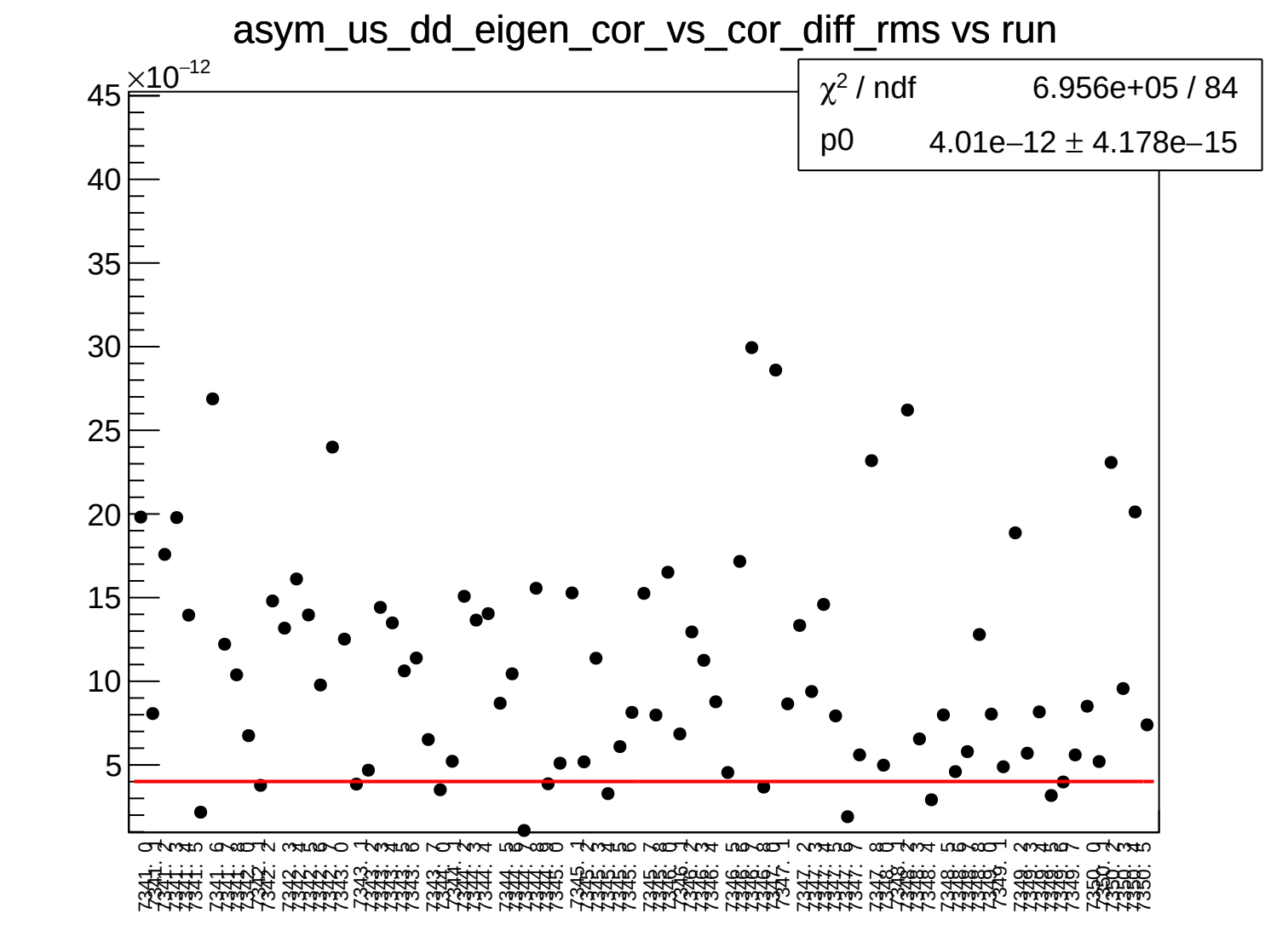

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.021e+05 / 84
p0 55.23 ± 0.04644
220
200
180
160
140
120
100
80
60
40
20

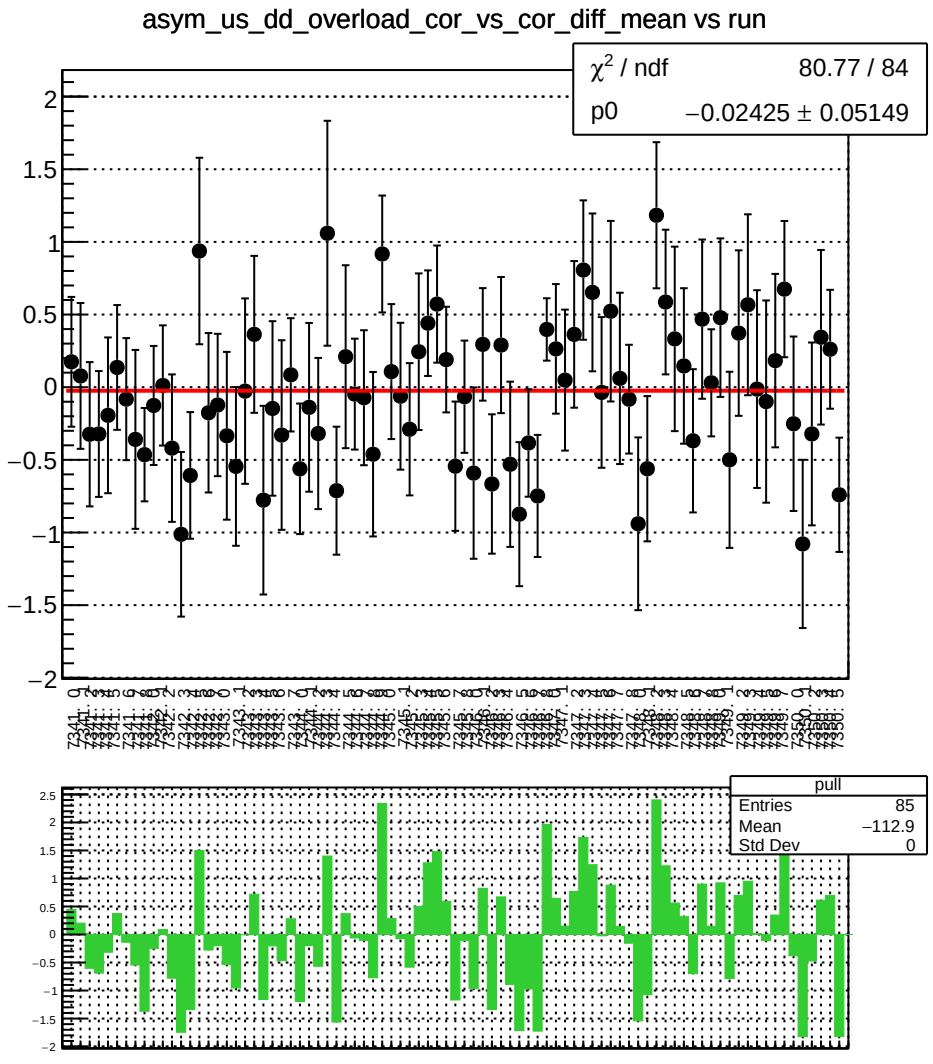

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.7 / 84
p0 0.02074 ± 0.08786
pull
Entries 85
Mean 78.16
Std Dev 0
pull1D
Entries 85
Mean −0.04101
Std Dev 1.015

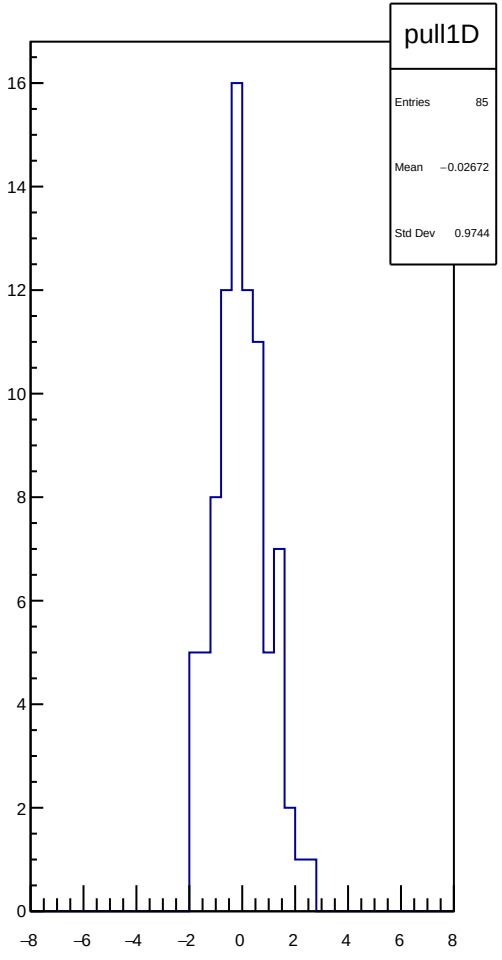

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.24e+05 / 84
p0 75.9 ± 0.06213
220
200
180
160
140
120
100
80
60
40

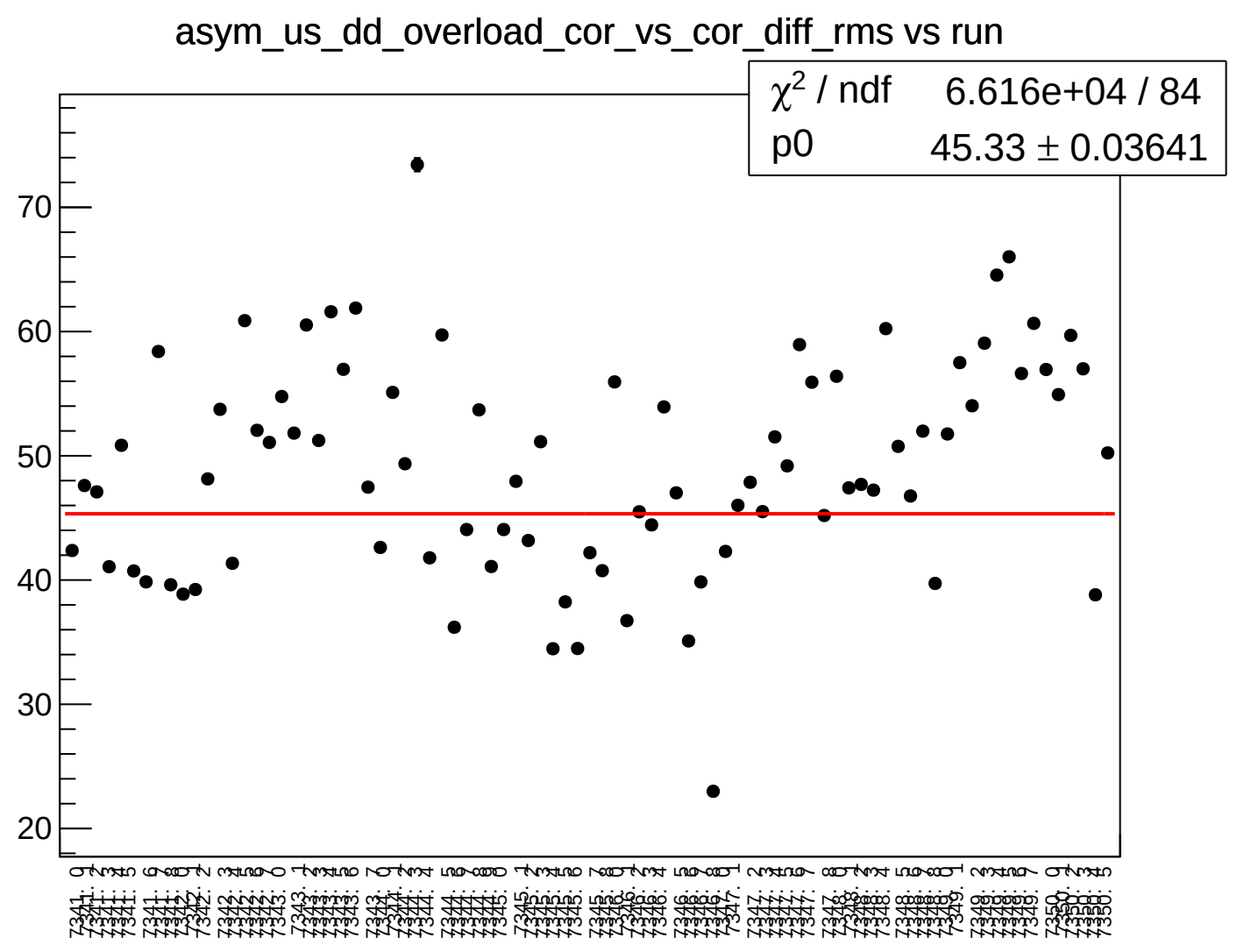

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.44 / 84
p0 −1.717e−15 ± 5.909e−15
pull
Entries 85
Mean 56.13
Std Dev 14.58

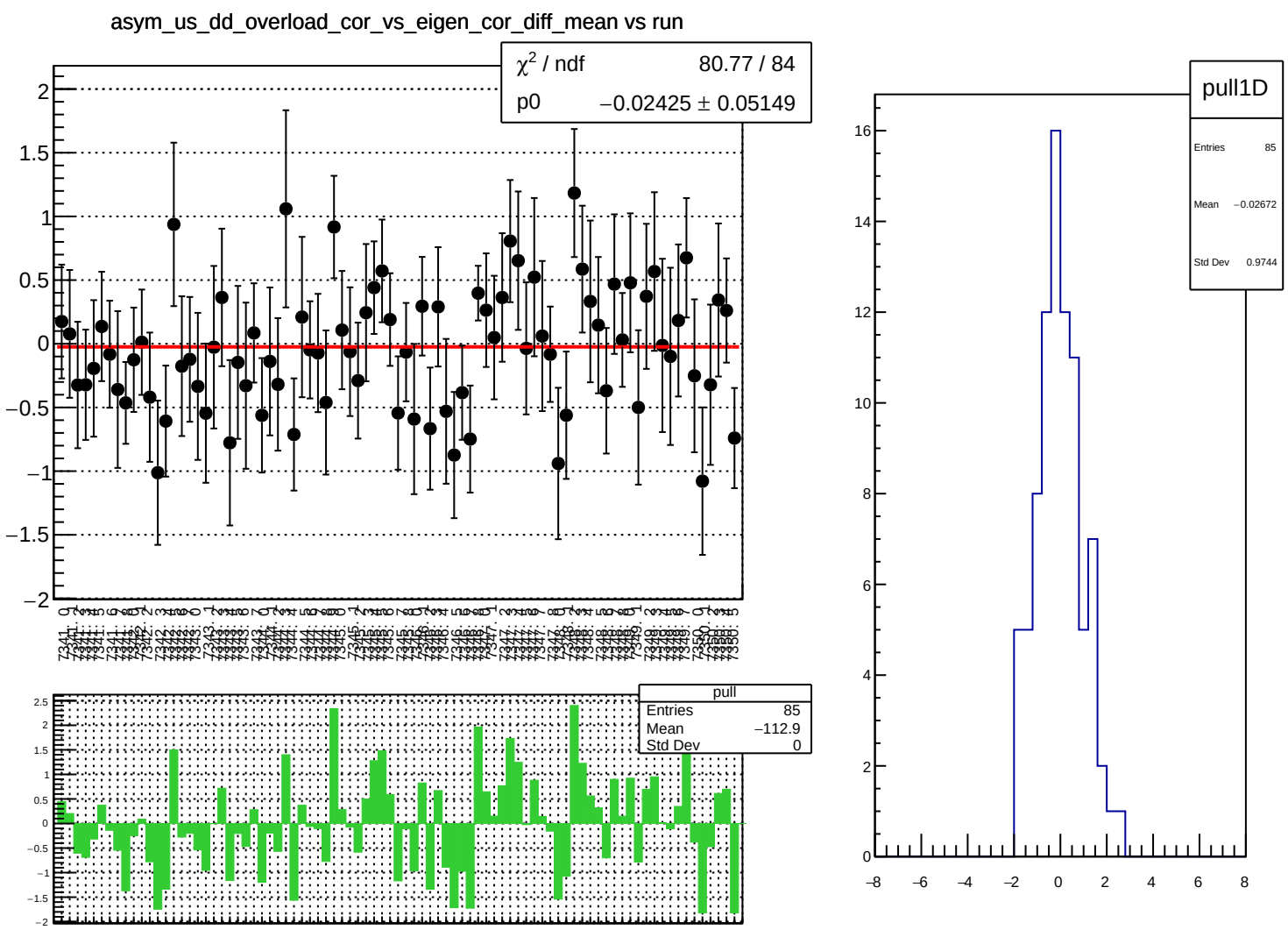

pull1D
Entries 85
Mean −0.1157
Std Dev 1.031

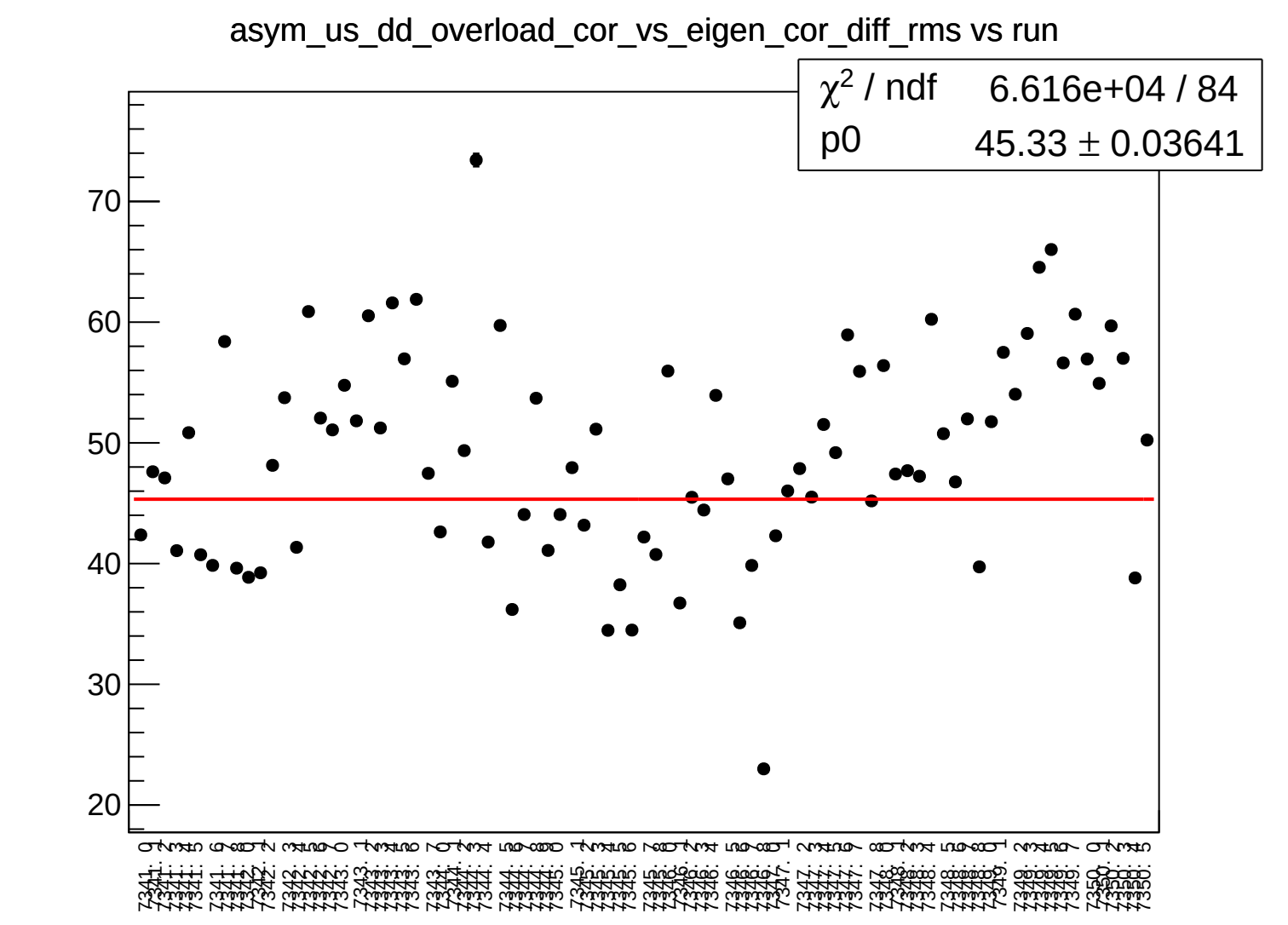

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
45
40
35
30
25
20
15
10
5
χ² / ndf 6.956e+05 / 84
p0 4.01e−12 ± 4.178e−15

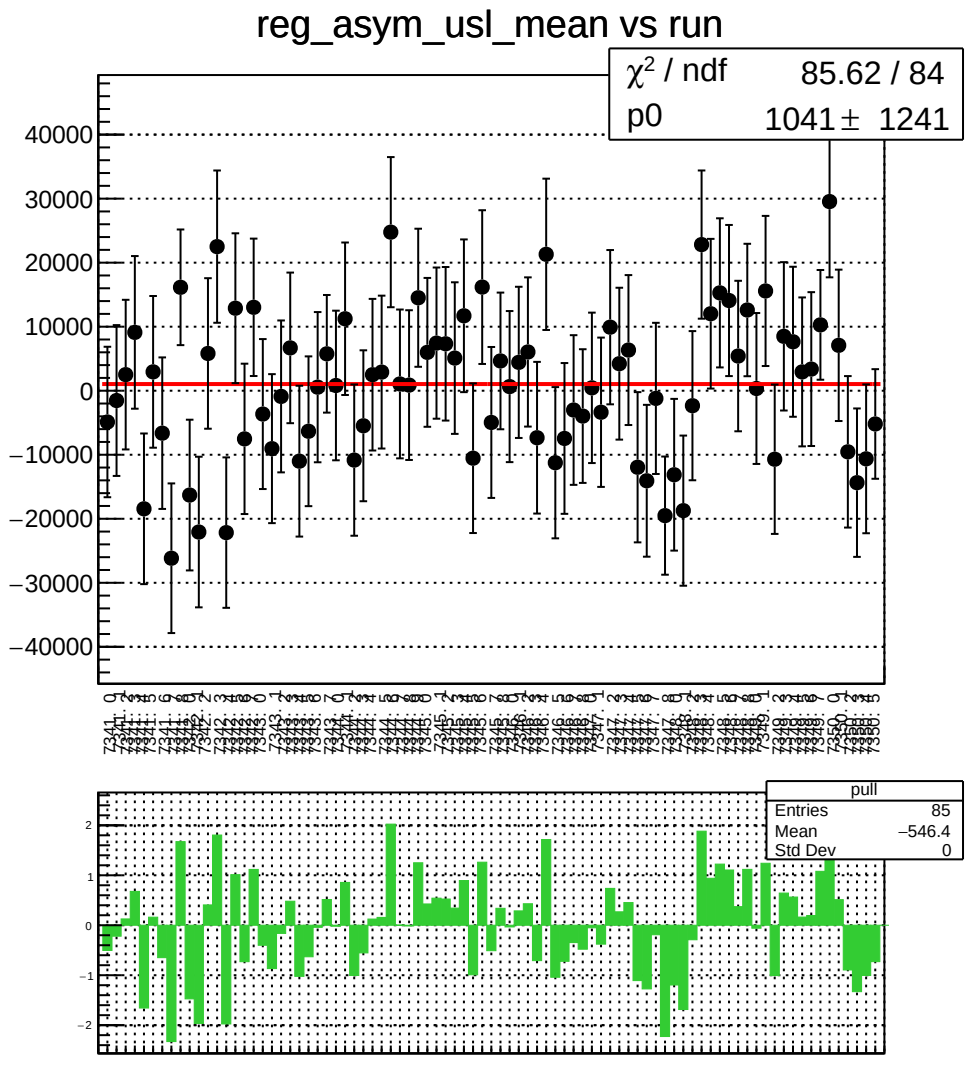

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 80.77 / 84
p0 −0.02425 ± 0.05149
pull
Entries 85
Mean −112.9
Std Dev 0

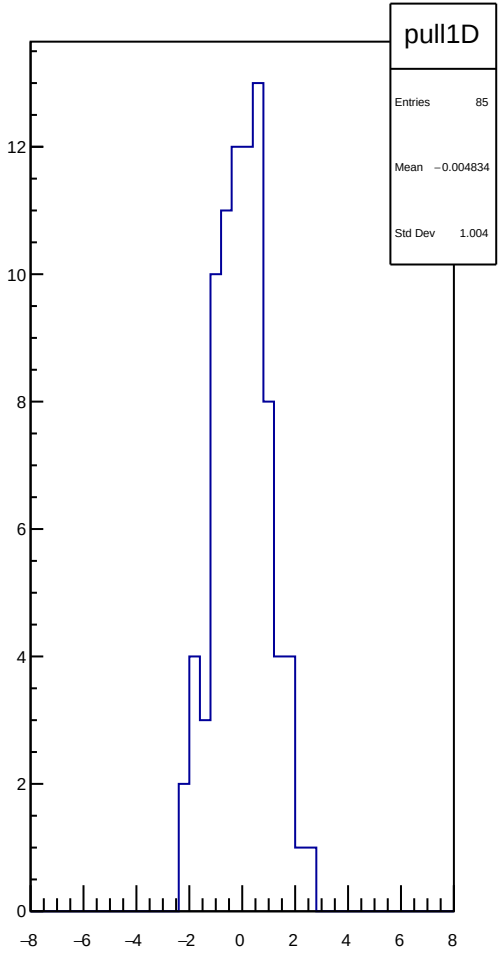

pull1D
Entries 85
Mean −0.02672
Std Dev 0.9744

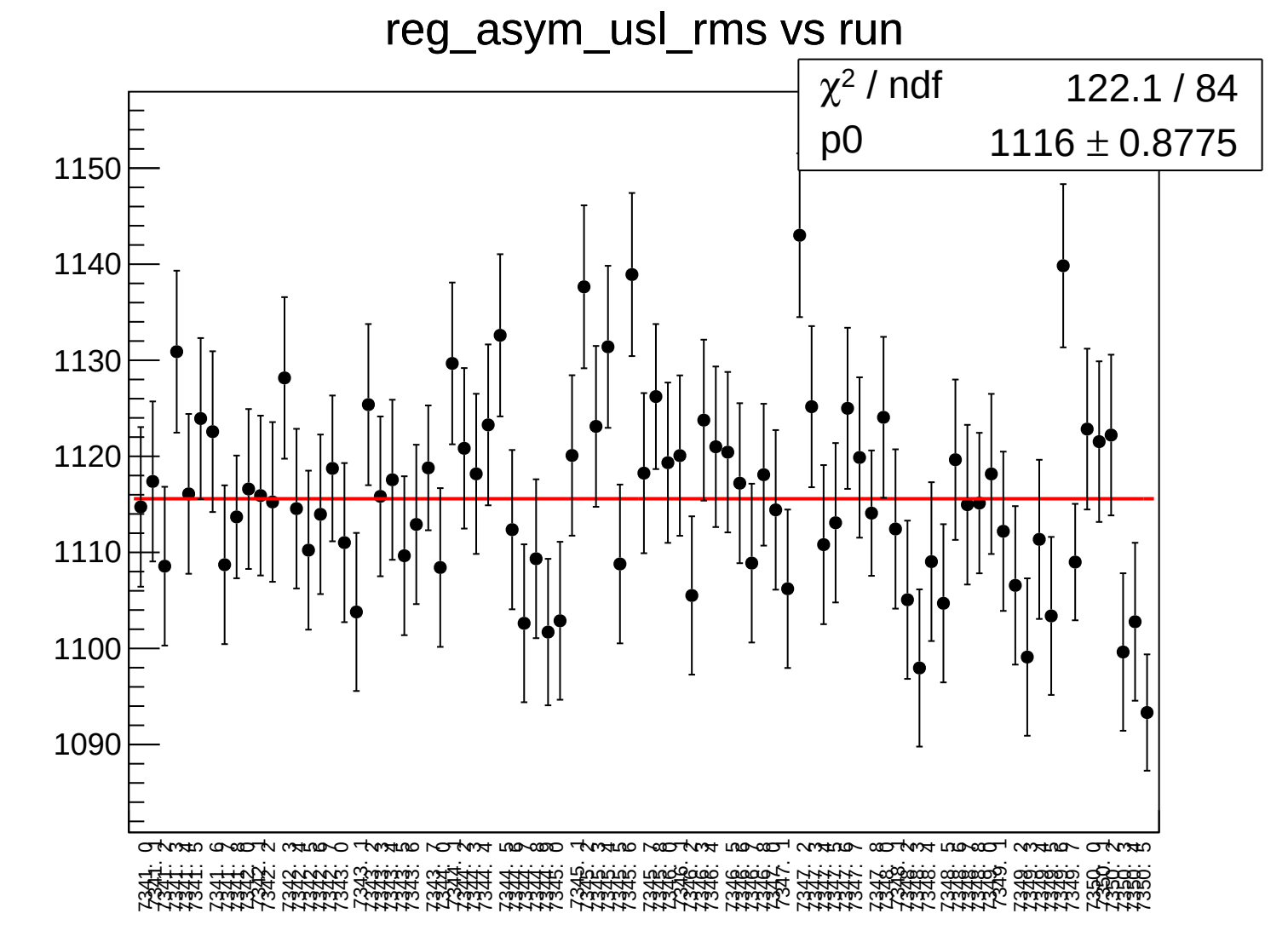

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 6.616e+04 / 84
p0 45.33 ± 0.03641
70
60
50
40
30
20

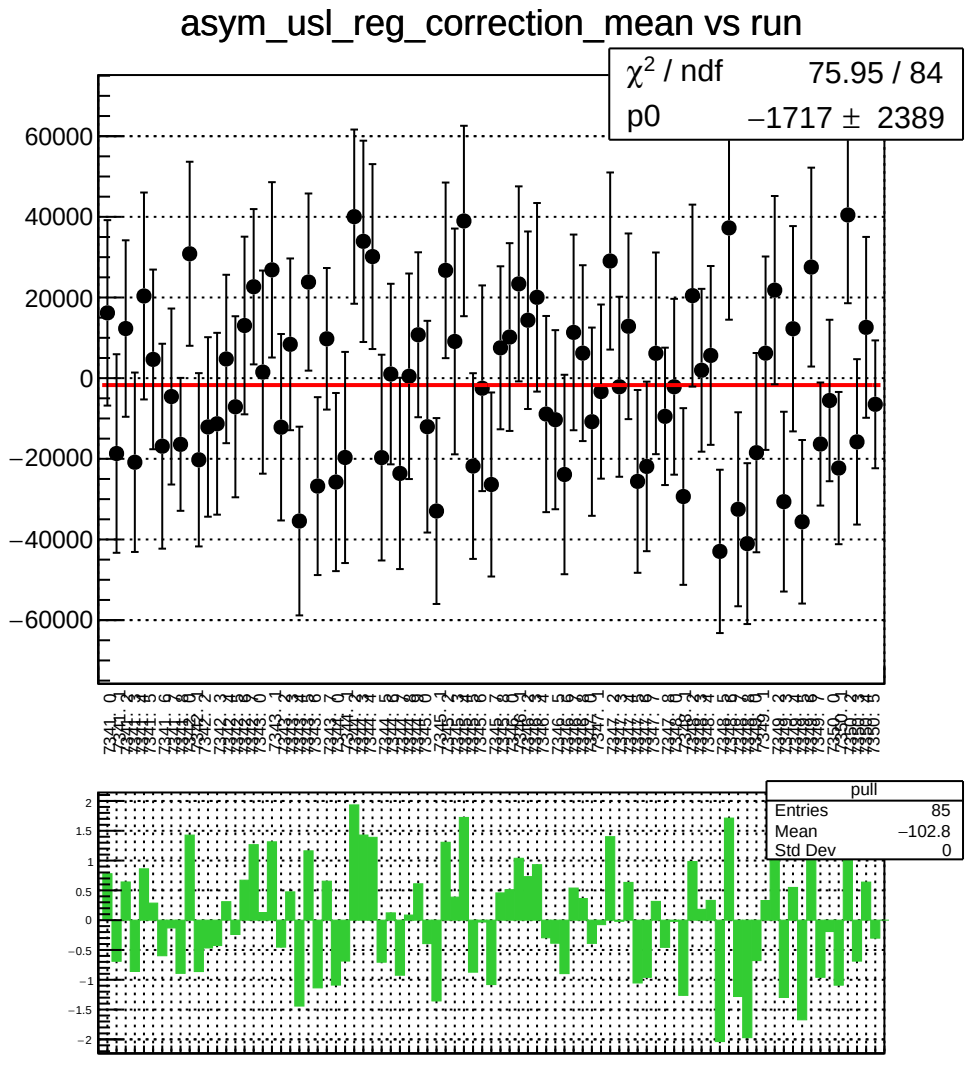

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.77 / 84
p0 −0.02425 ± 0.05149
pull
Entries 85
Mean −112.9
Std Dev 0
pull1D
Entries 85
Mean −0.02672
Std Dev 0.9744

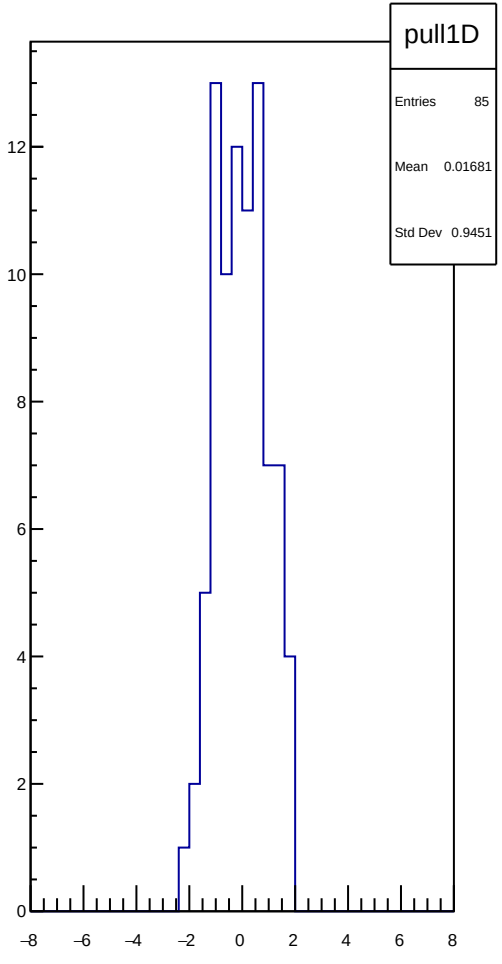

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.616e+04 / 84
p0 45.33 ± 0.03641
70
60
50
40
30
20

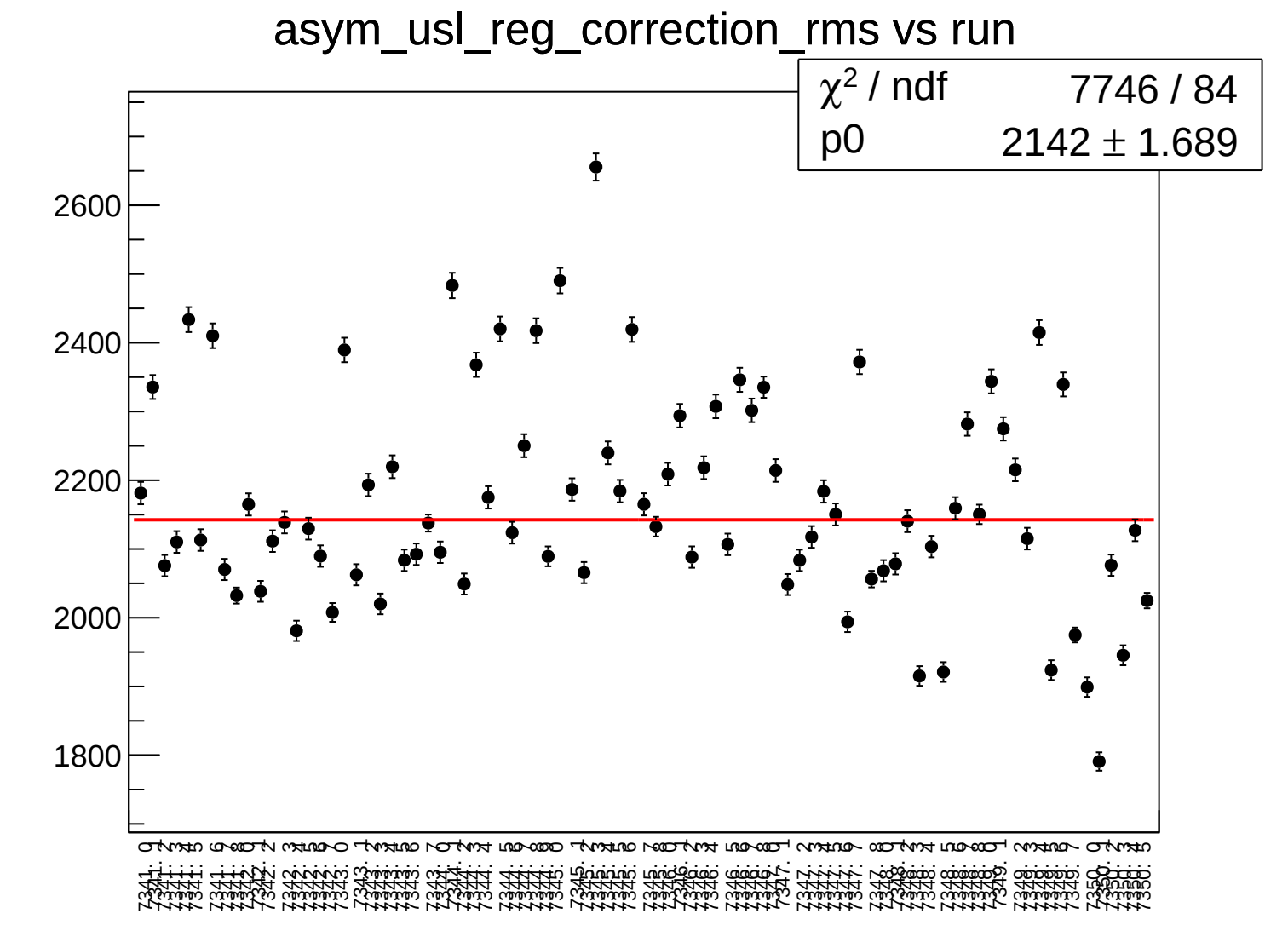

reg_asym_usl_mean vs run
χ² / ndf 85.62 / 84
p0 1041 ± 1241
pull
Entries 85
Mean −546.4
Std Dev 0

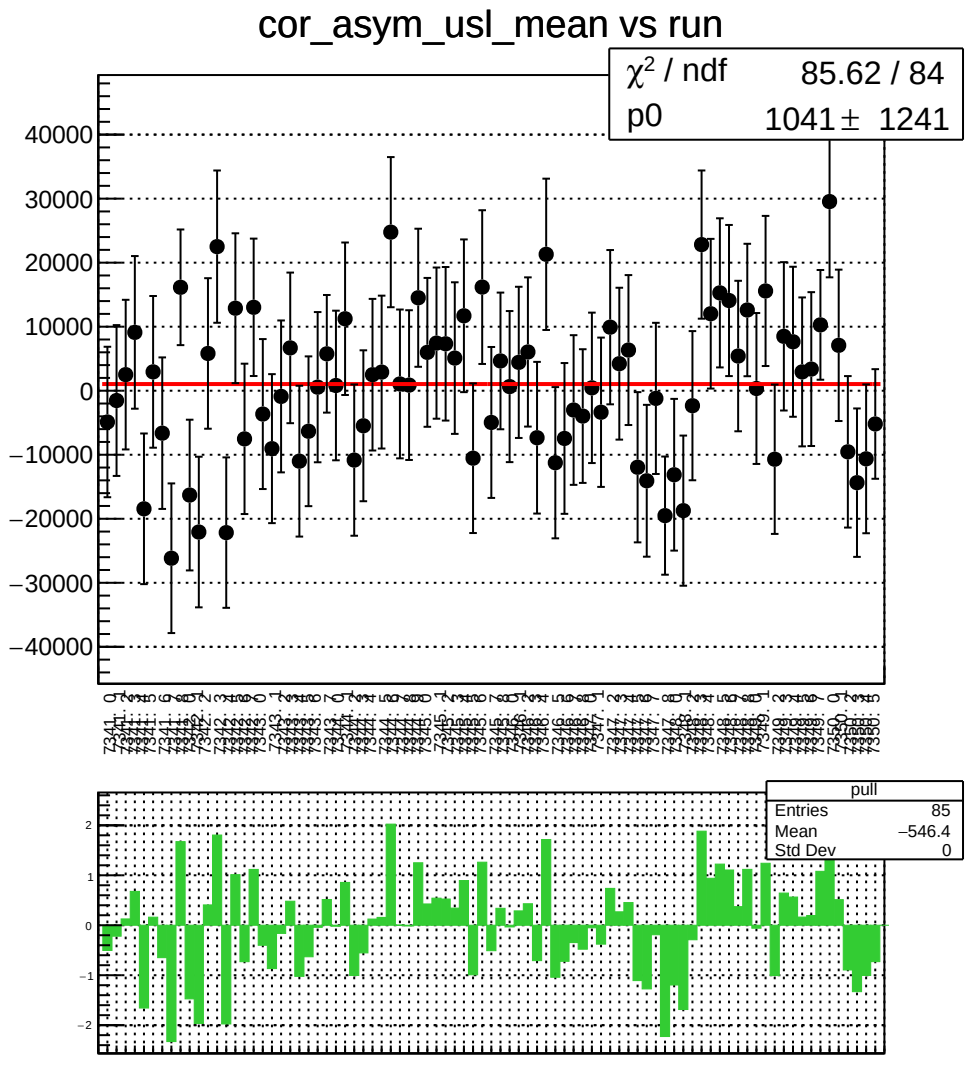

pull1D
Entries 85
Mean −0.004834
Std Dev 1.004

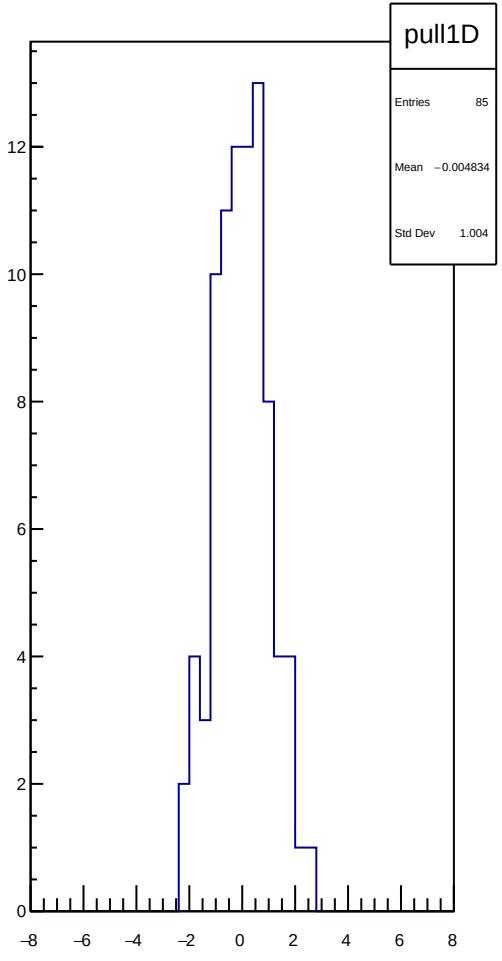

reg_asym_usl_rms vs run
χ² / ndf 122.1 / 84
p0 1116 ± 0.8775
1150
1140
1130
1120
1110
1100
1090

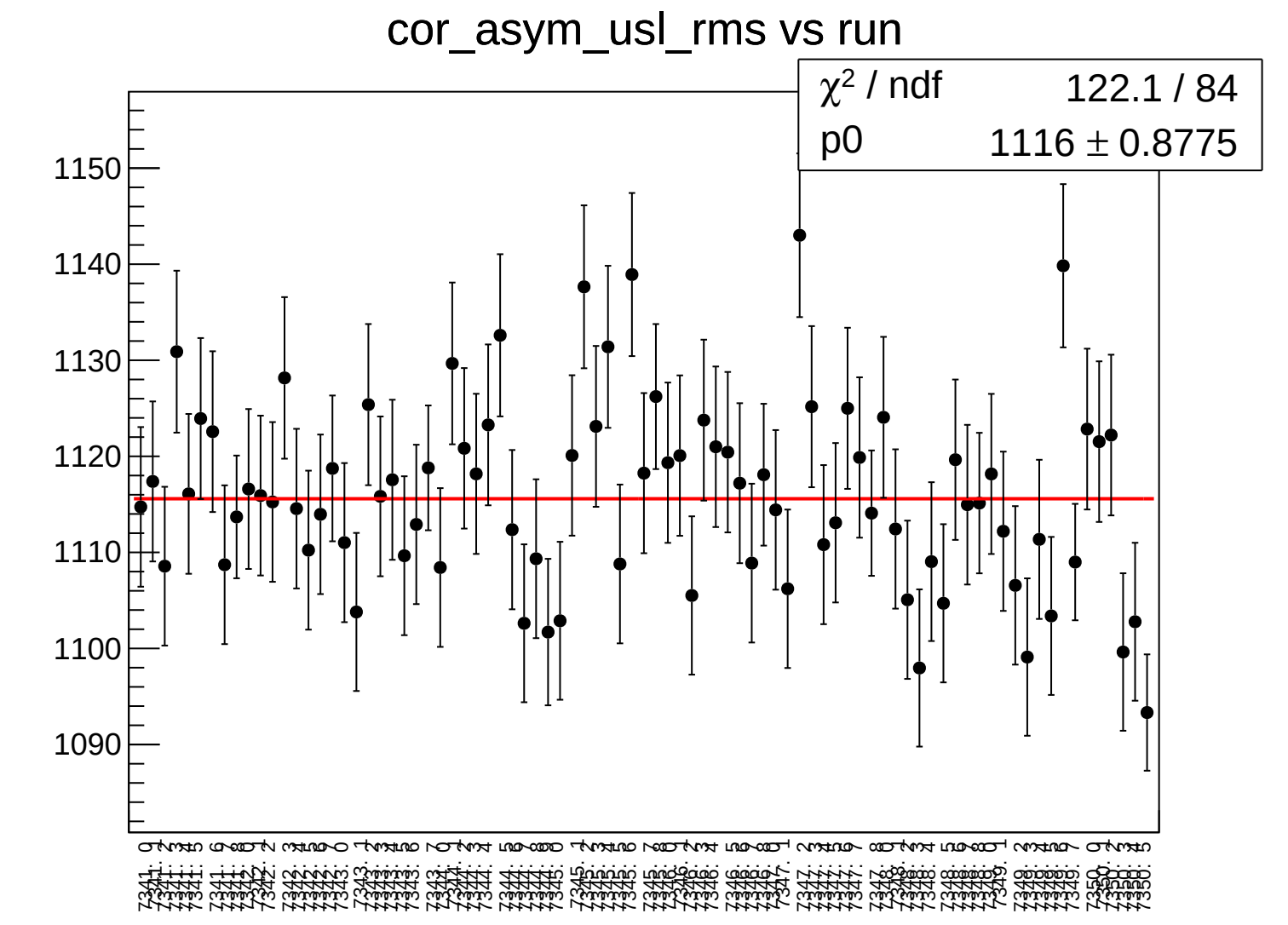

asym_usl_reg_correction_mean vs run
χ² / ndf 75.95 / 84
p0 −1717 ± 2389
pull
Entries 85
Mean −102.8
Std Dev 0

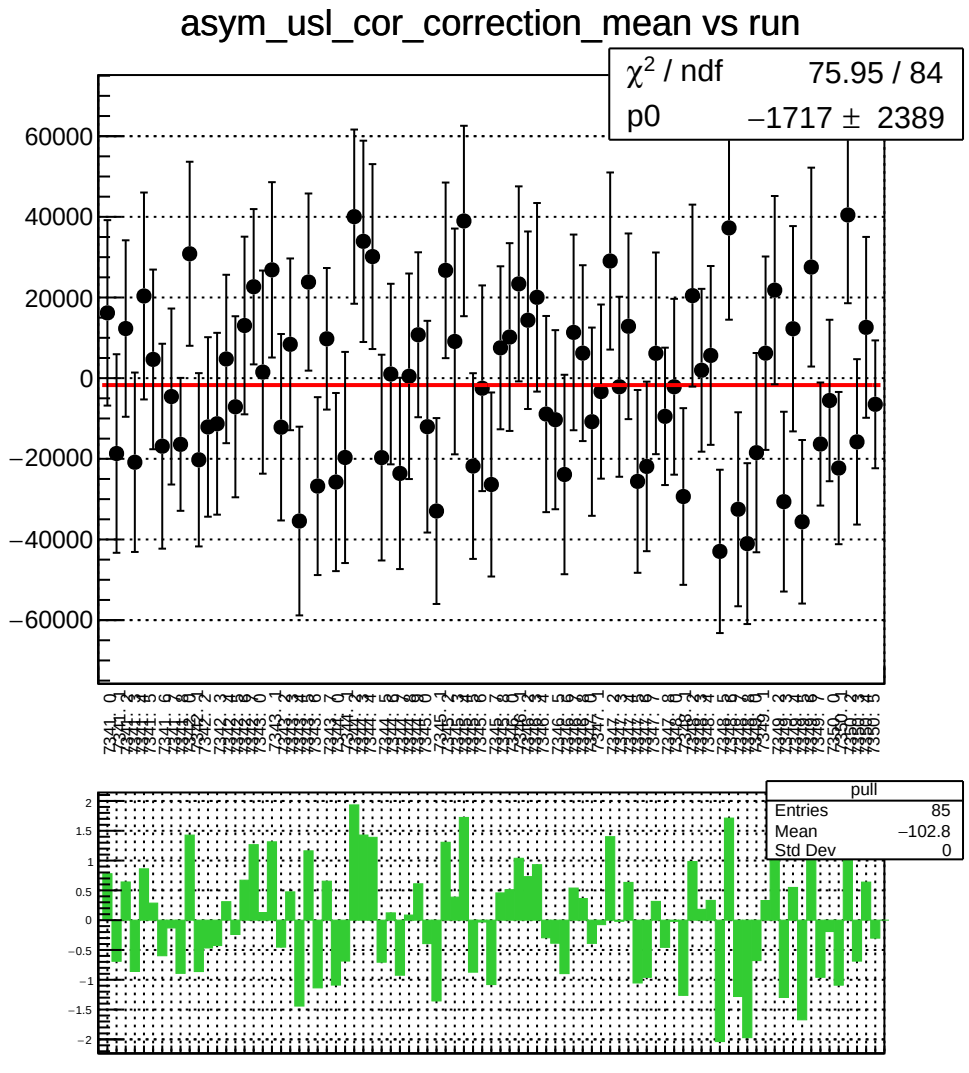

pull1D
Entries 85
Mean 0.01681
Std Dev 0.9451

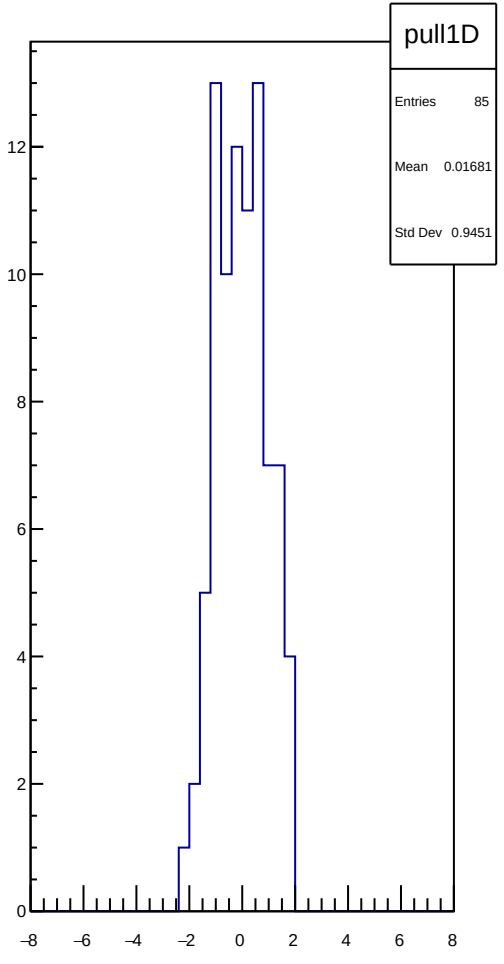

asym_usl_reg_correction_rms vs run
χ² / ndf 7746 / 84
p0 2142 ± 1.689
2600
2400
2200
2000
1800

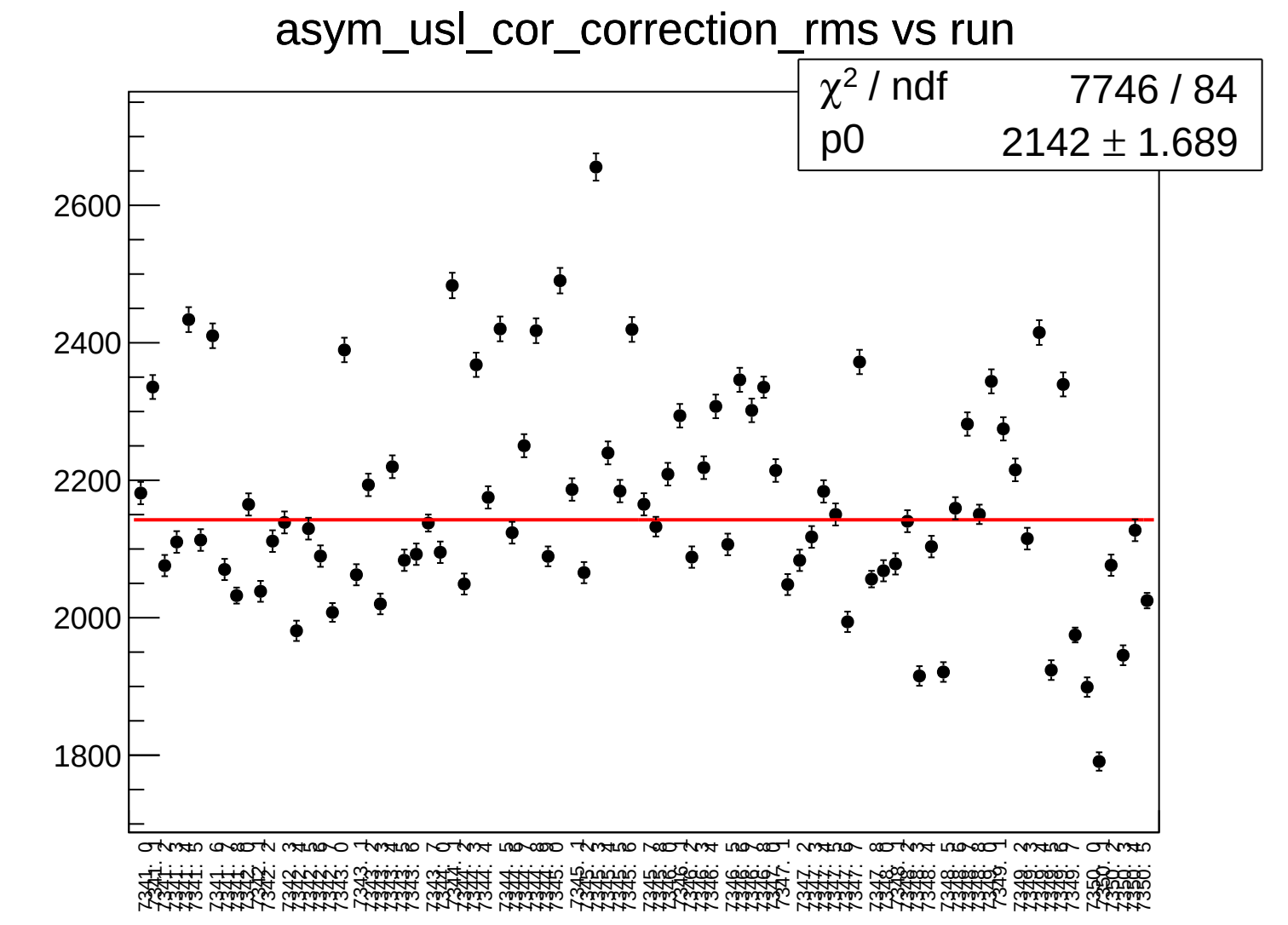

cor_asym_usl_mean vs run
χ² / ndf 85.62 / 84
p0 1041 ± 1241
pull
Entries 85
Mean −546.4
Std Dev 0

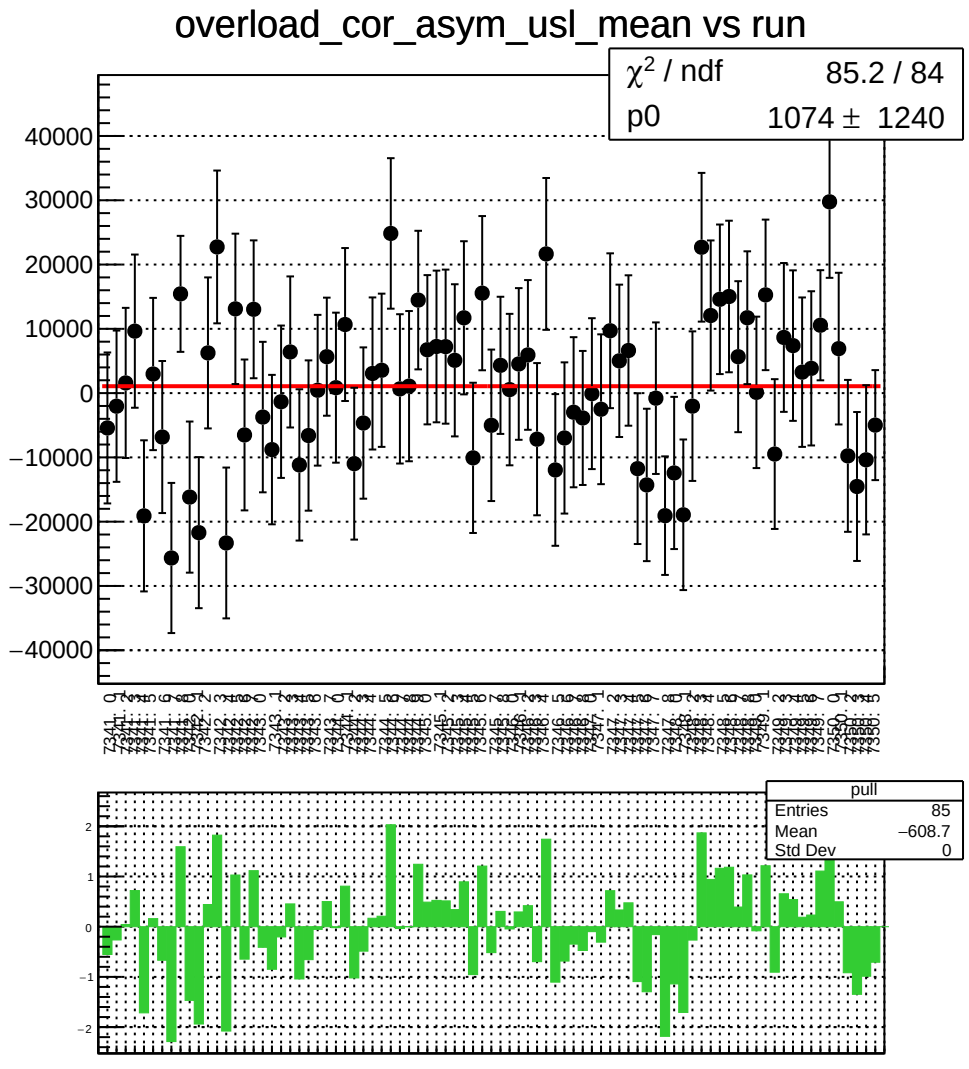

pull1D
Entries 85
Mean −0.004834
Std Dev 1.004

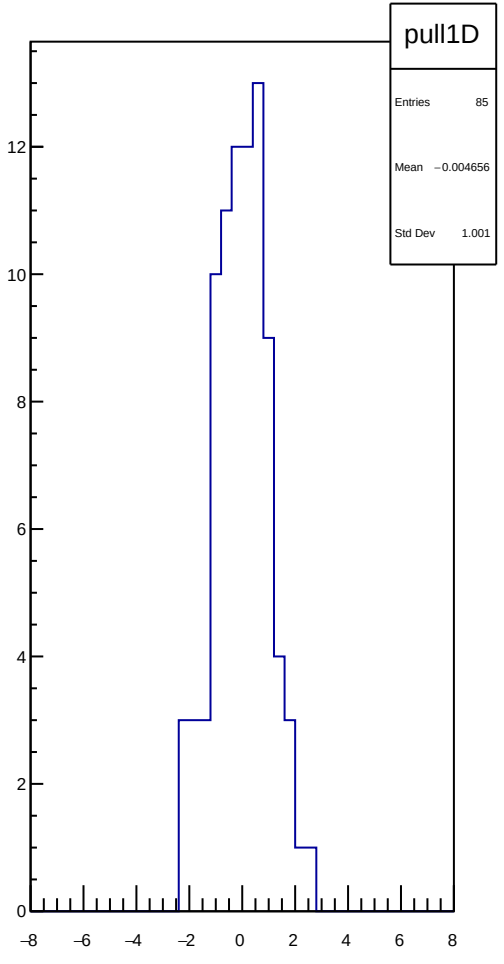

cor_asym_usl_rms vs run
χ² / ndf 122.1 / 84
p0 1116 ± 0.8775
1150
1140
1130
1120
1110
1100
1090

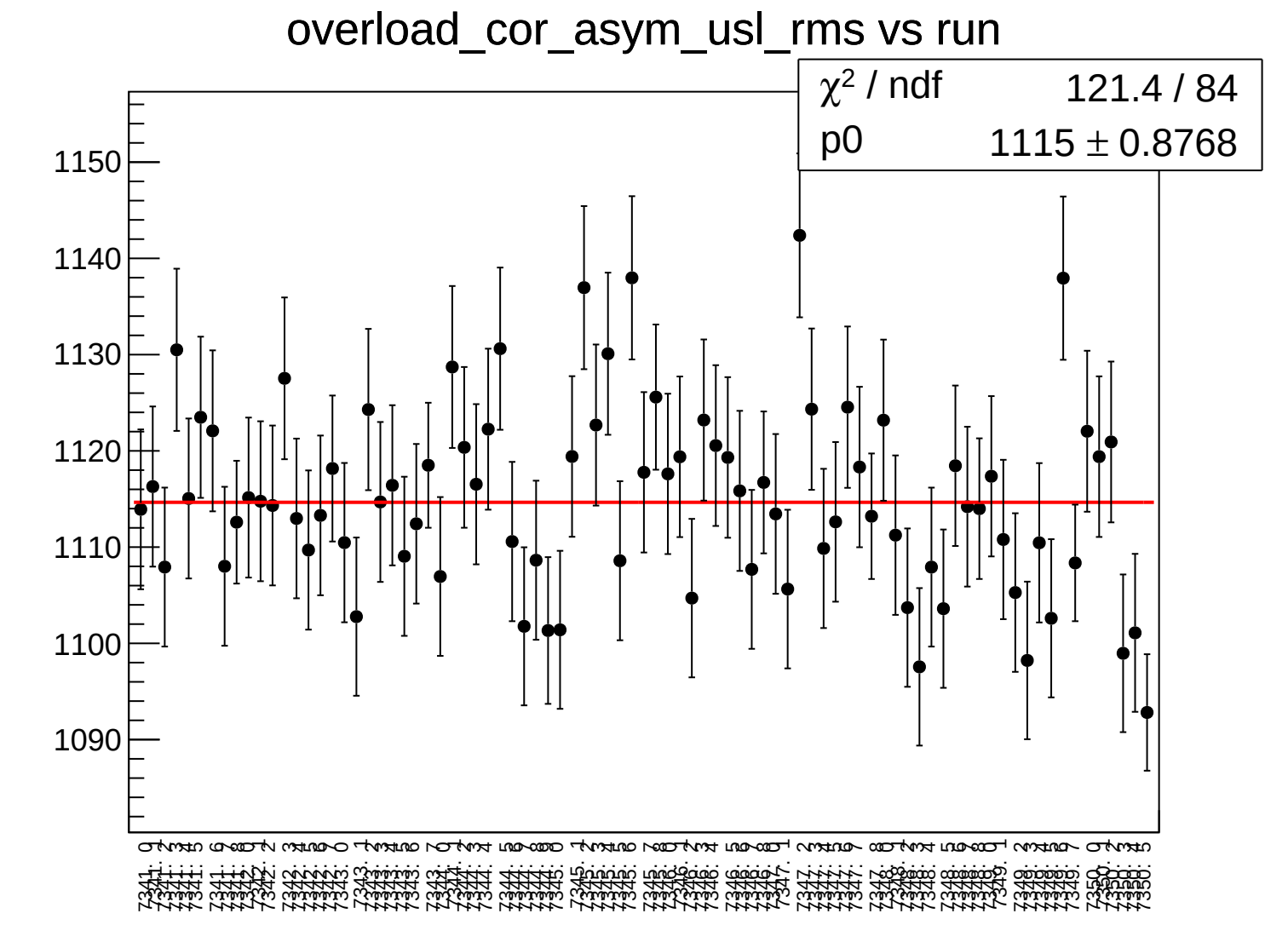

asym_usl_cor_correction_mean vs run
χ² / ndf 75.95 / 84
p0 −1717 ± 2389
pull
Entries 85
Mean −102.8
Std Dev 0

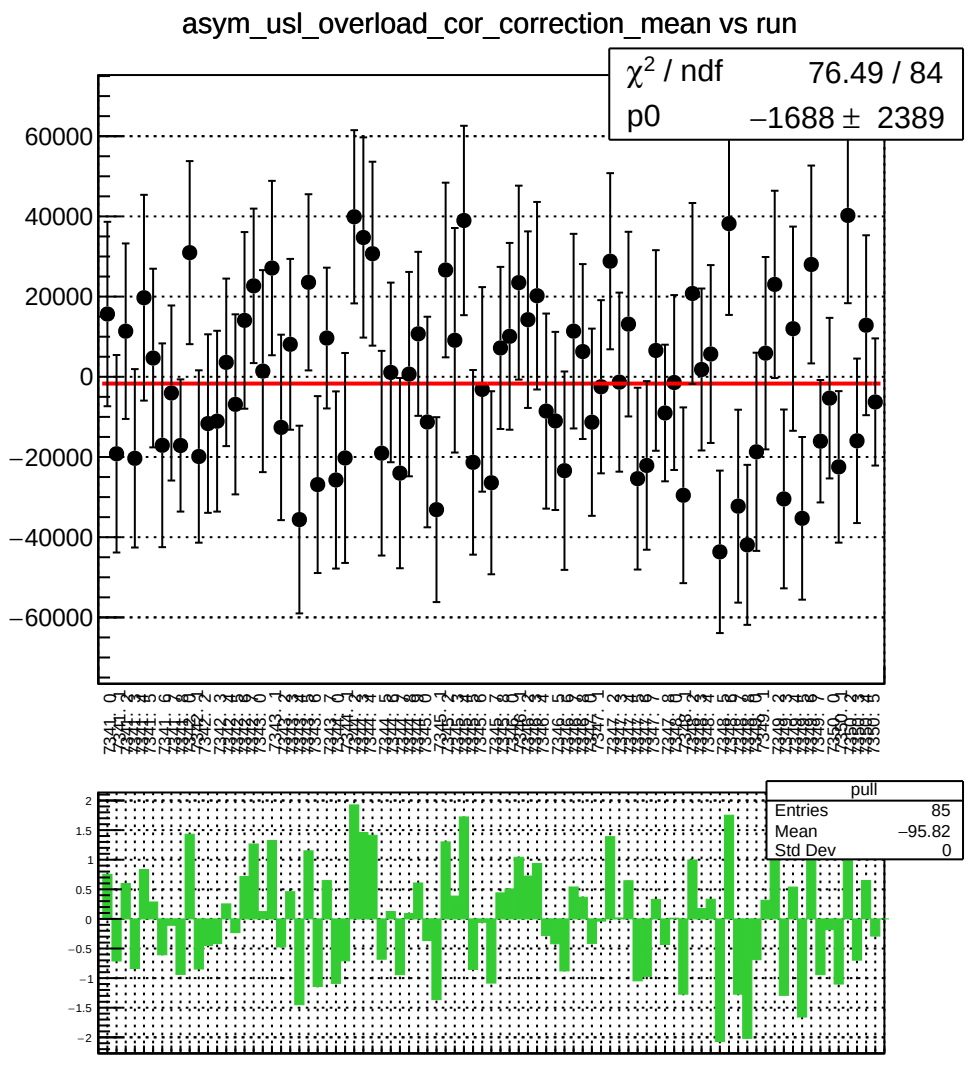

pull1D
Entries 85
Mean 0.01681
Std Dev 0.9451

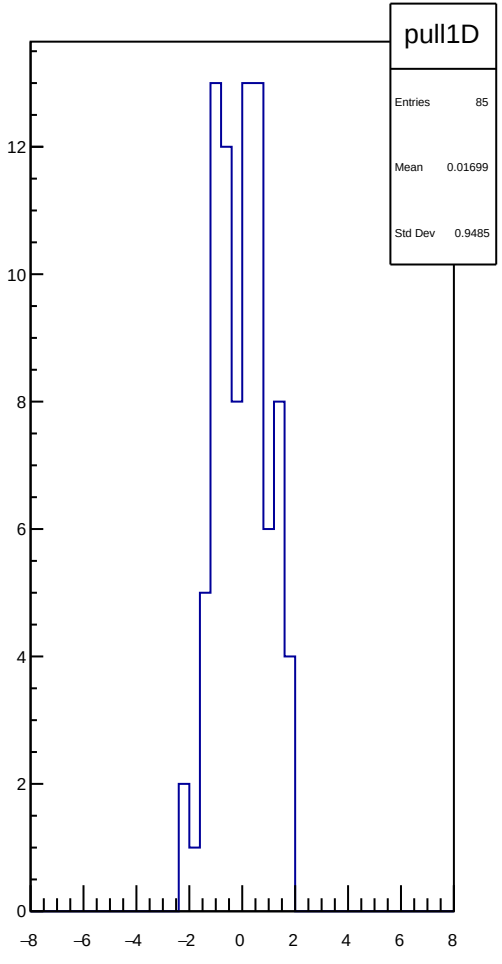

asym_usl_cor_correction_rms vs run
χ² / ndf 7746 / 84
p0 2142 ± 1.689
2600
2400
2200
2000
1800

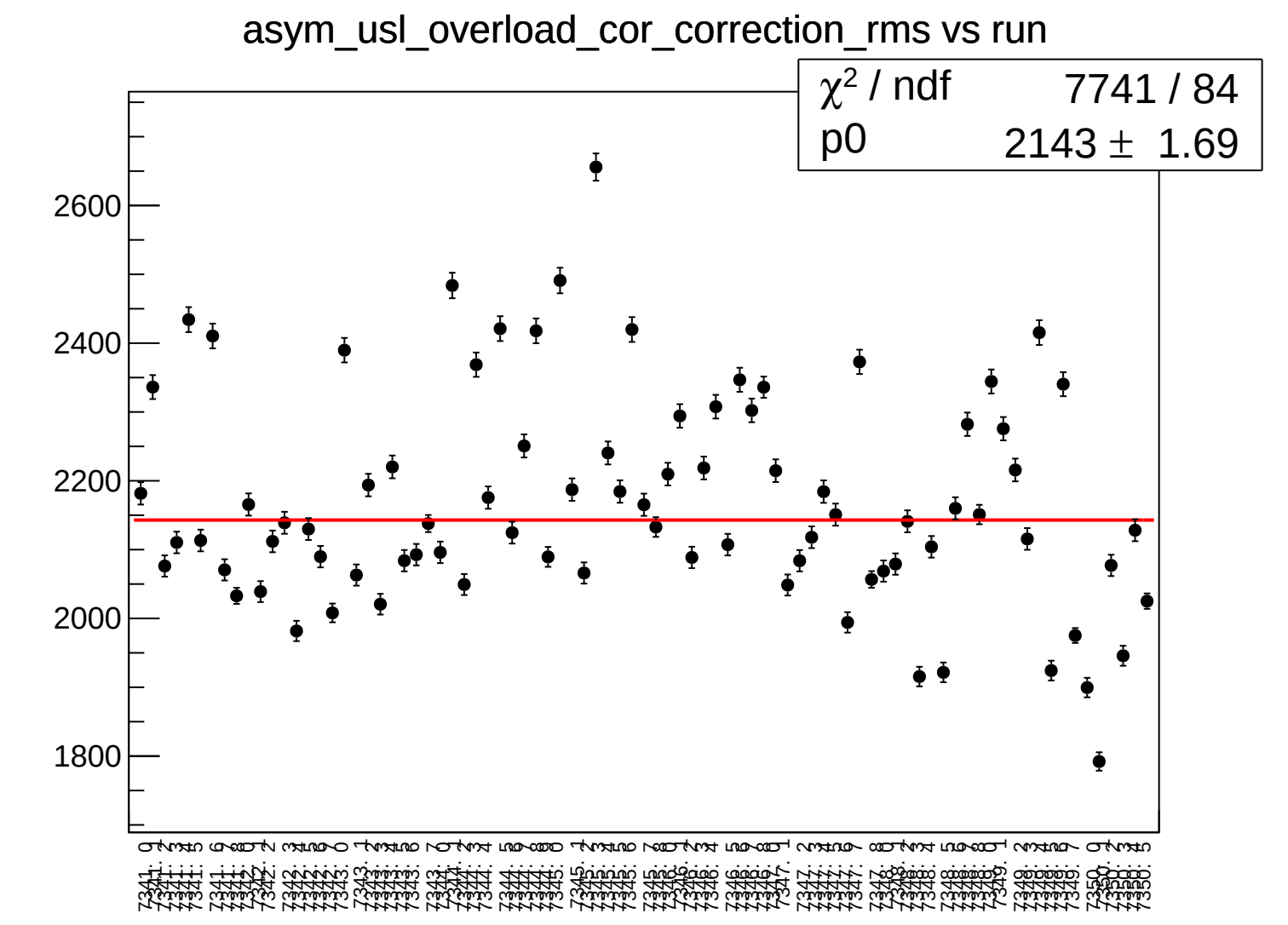

overload_cor_asym_usl_mean vs run
χ² / ndf 85.2 / 84
p0 1074 ± 1240
pull
Entries 85
Mean −608.7
Std Dev 0

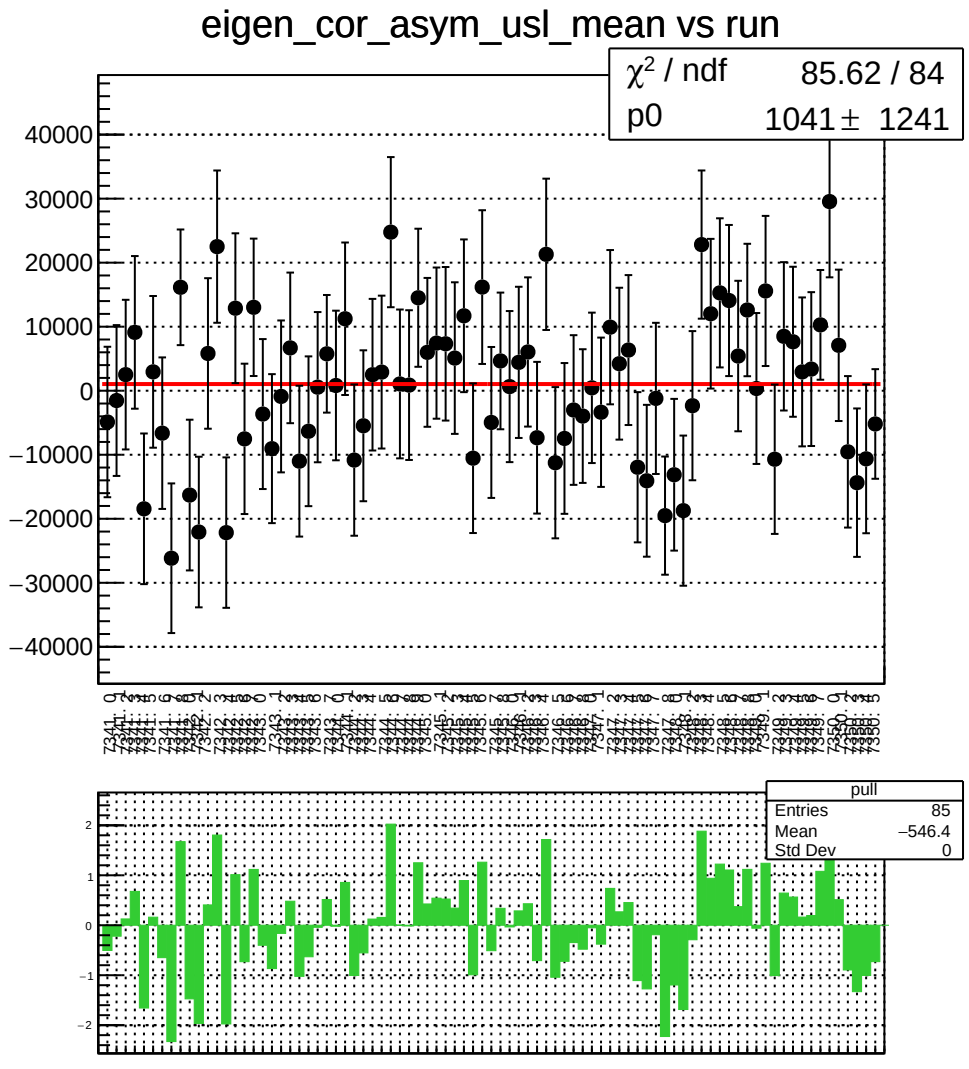

pull1D
Entries 85
Mean −0.004656
Std Dev 1.001

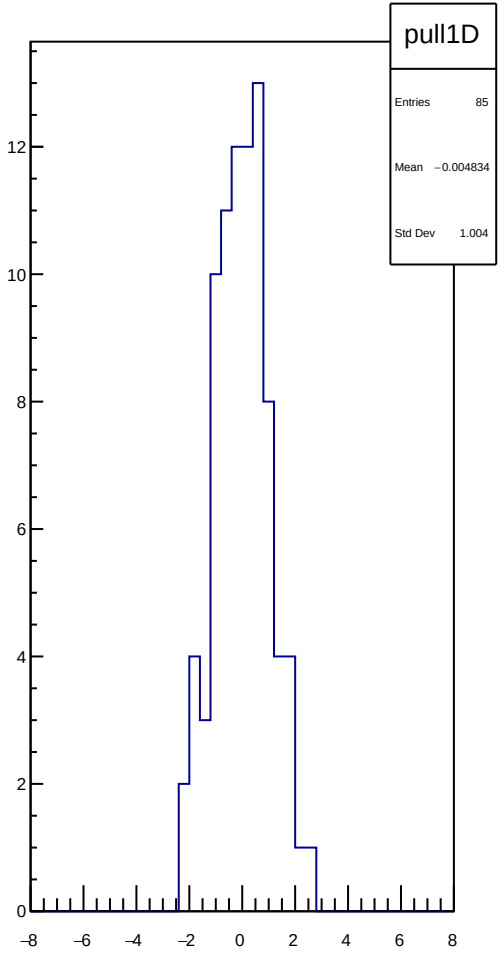

overload_cor_asym_usl_rms vs run
χ² / ndf 121.4 / 84
p0 1115 ± 0.8768
1150
1140
1130
1120
1110
1100
1090

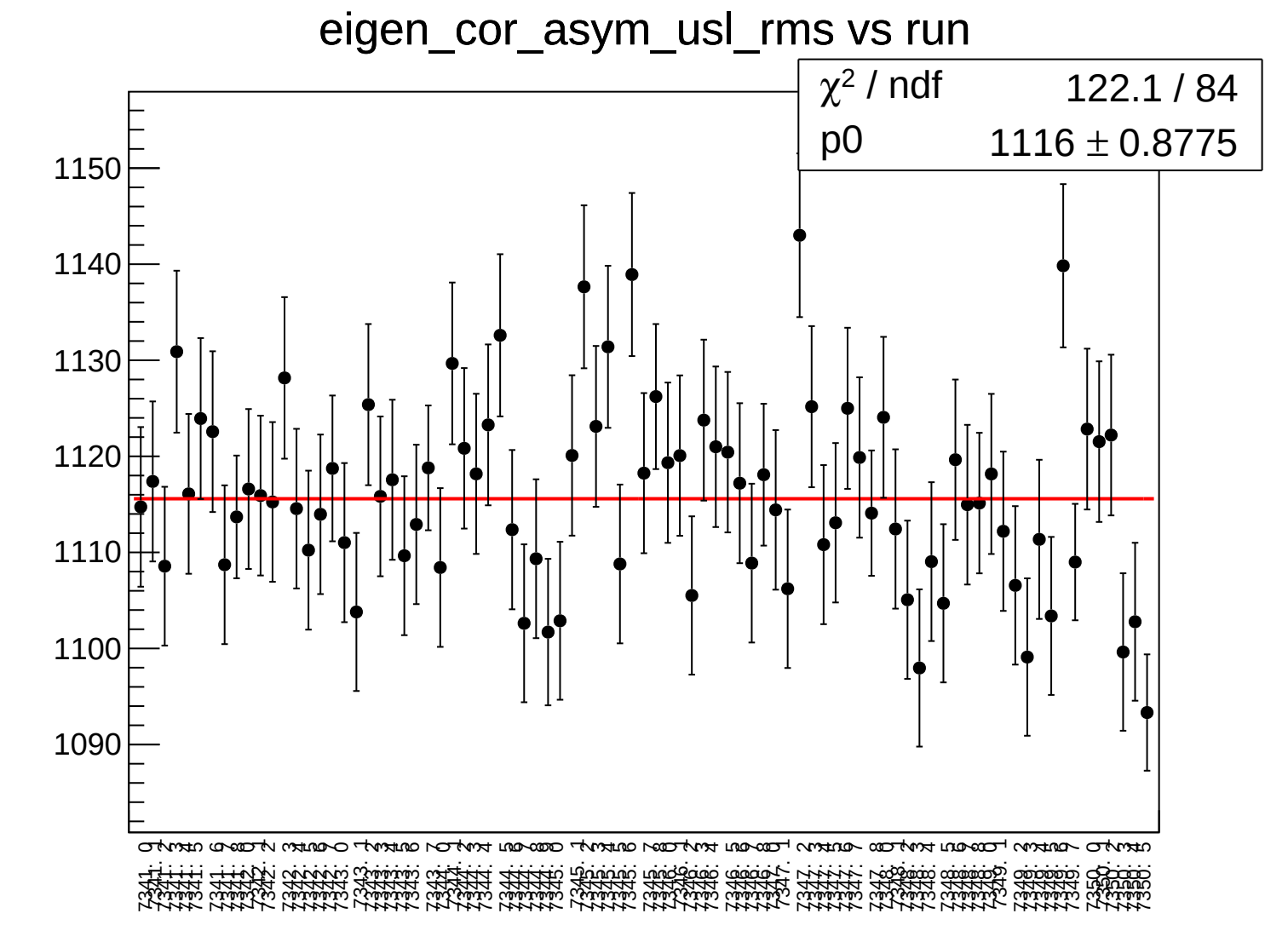

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 76.49 / 84
p0 −1688 ± 2389
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −95.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

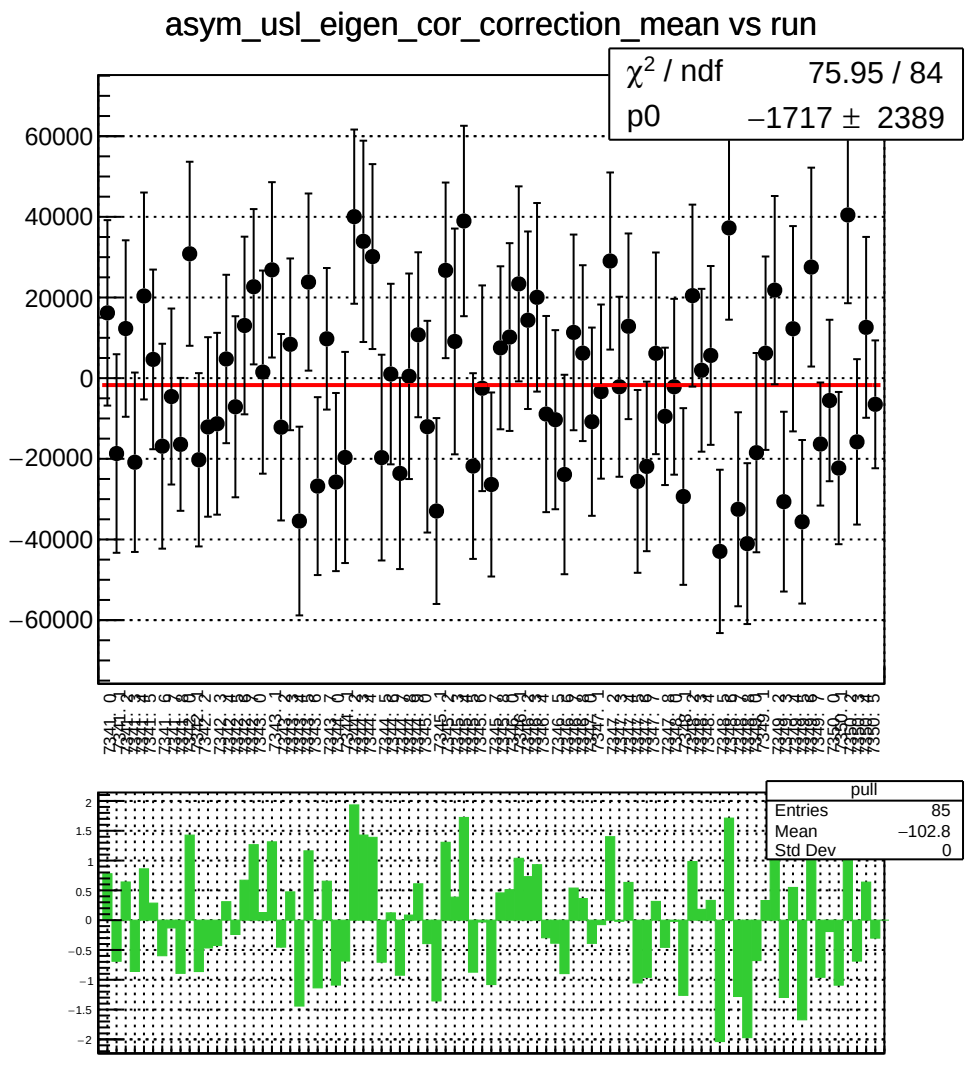

pull1D
Entries 85
Mean 0.01699
Std Dev 0.9485
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

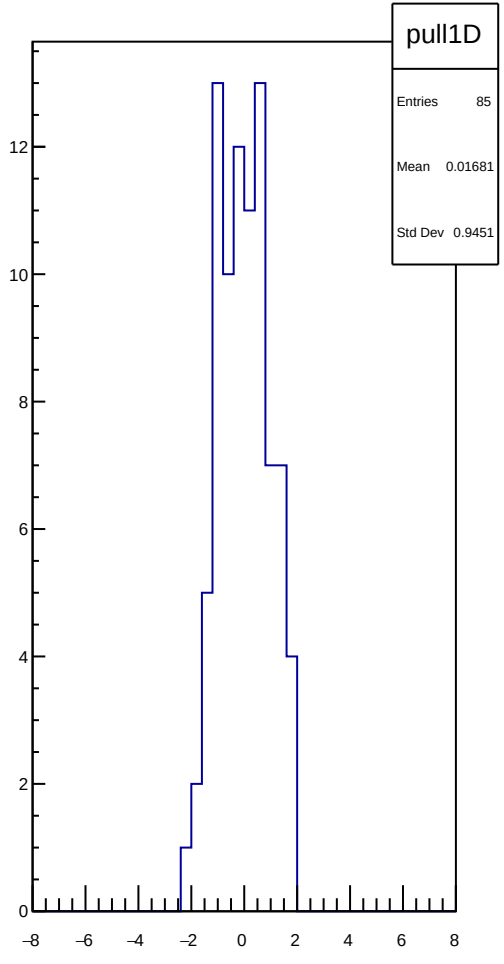

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 7741 / 84
p0 2143 ± 1.69
2600
2400
2200
2000
1800

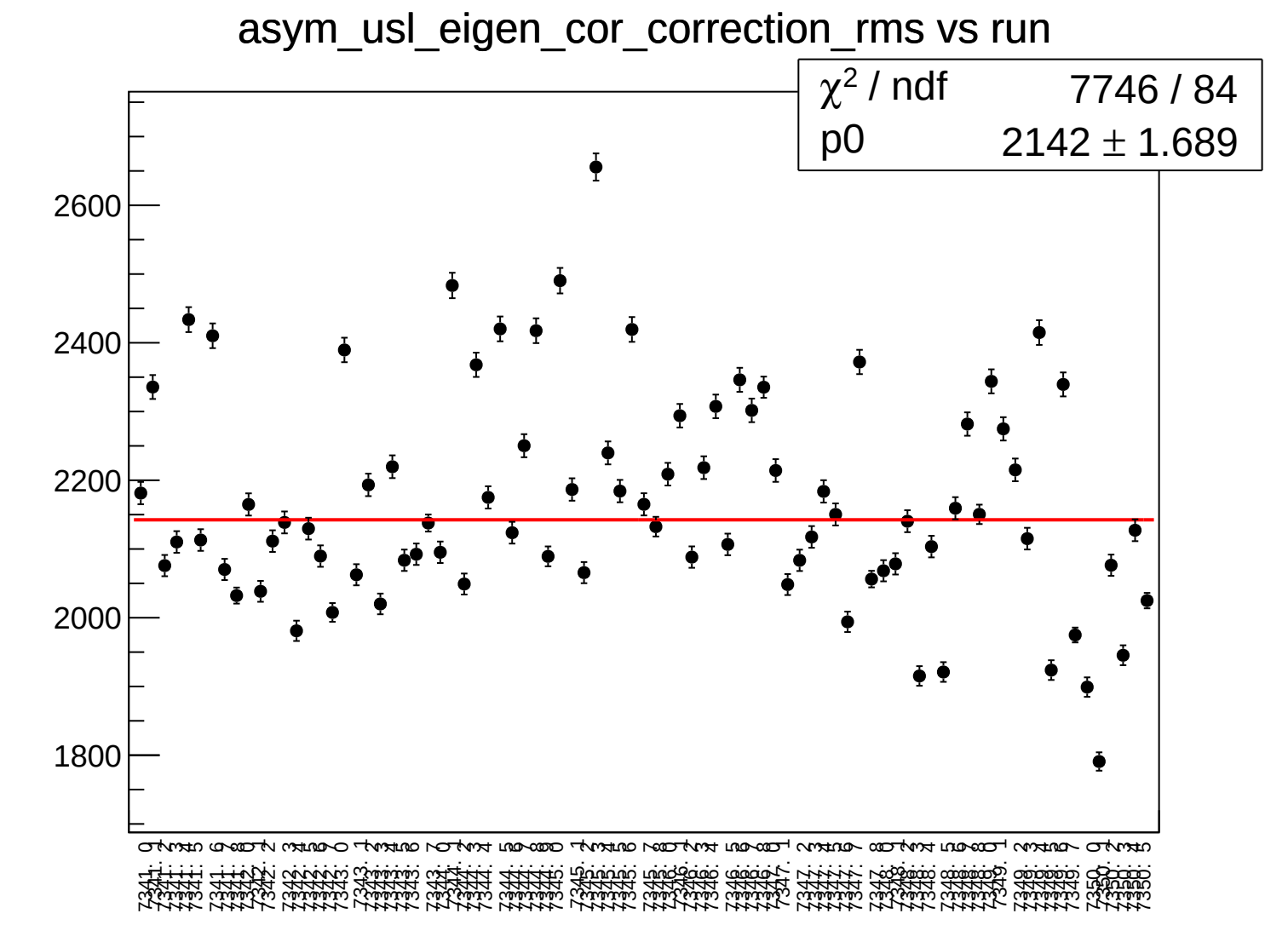

eigen_cor_asym_usl_mean vs run
χ² / ndf 85.62 / 84
p0 1041 ± 1241
pull
Entries 85
Mean −546.4
Std Dev 0

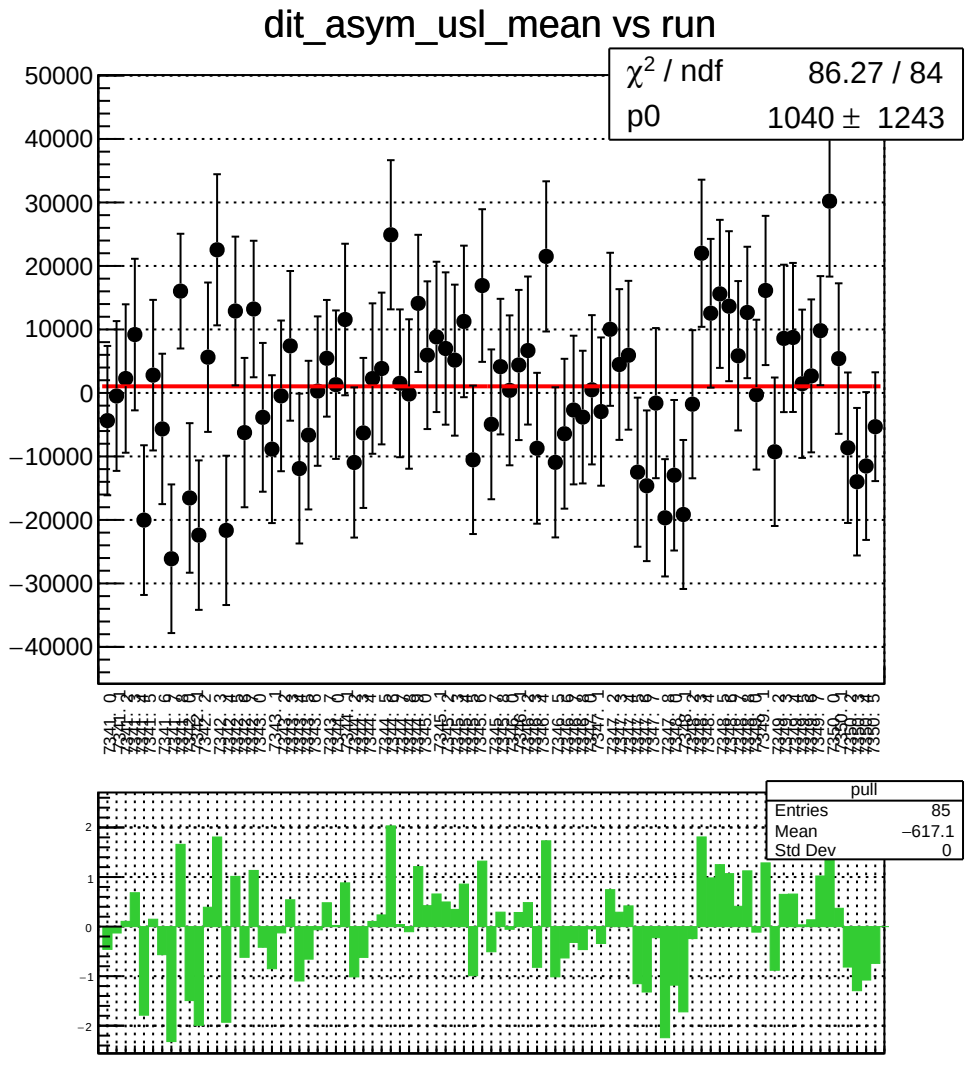

pull1D
Entries 85
Mean −0.004834
Std Dev 1.004

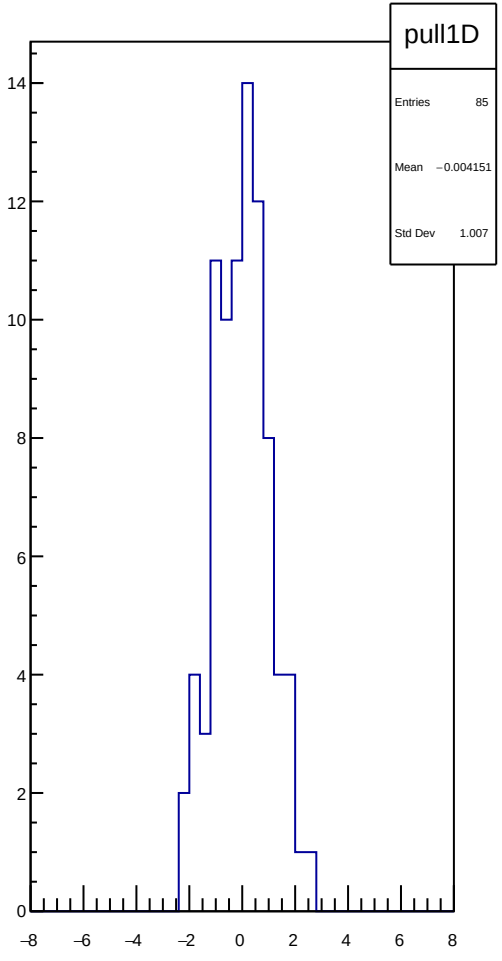

eigen_cor_asym_usl_rms vs run
χ² / ndf 122.1 / 84
p0 1116 ± 0.8775
1150
1140
1130
1120
1110
1100
1090

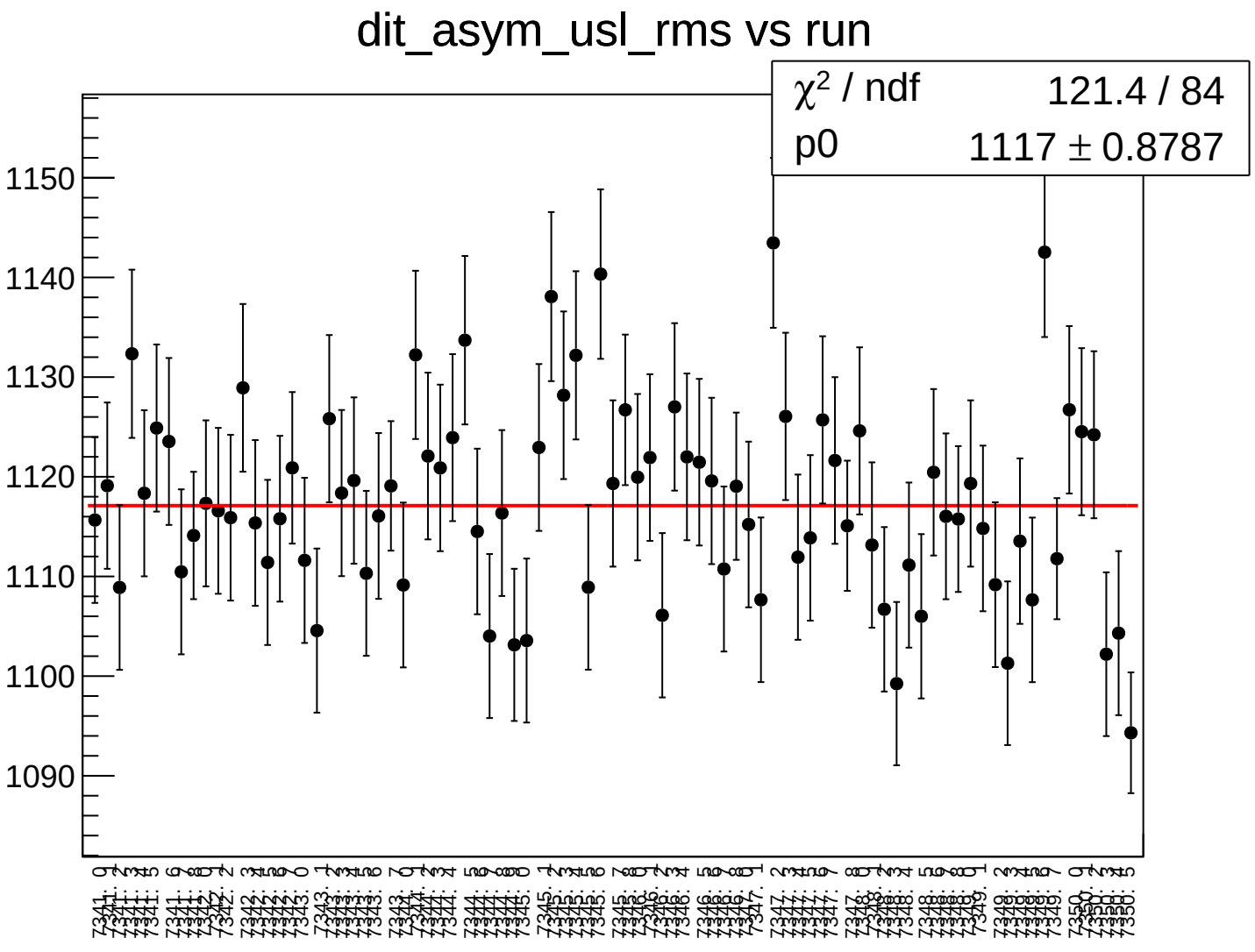

asym_usl_eigen_cor_correction_mean vs run
χ^2 / ndf 75.95 / 84
p0 −1717 ± 2389
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −102.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

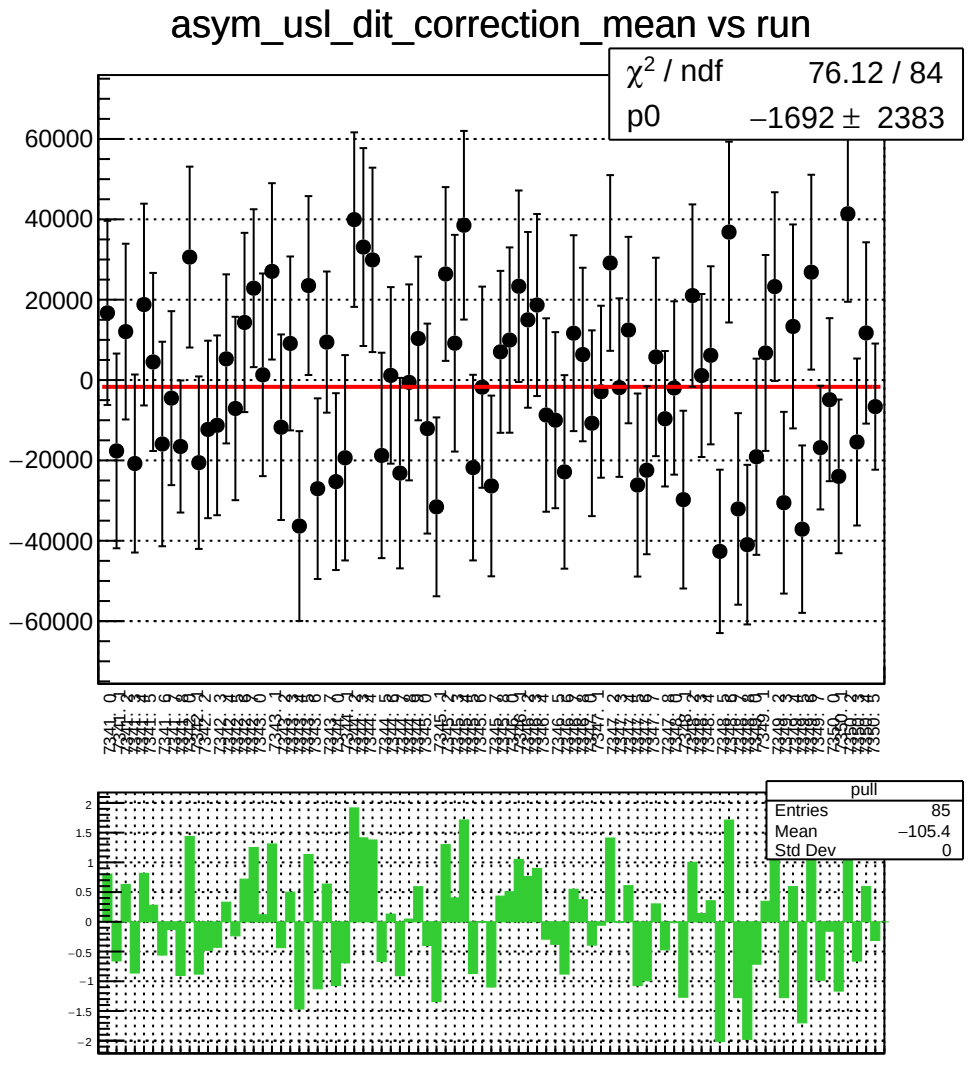

pull1D
Entries 85
Mean 0.01681
Std Dev 0.9451
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

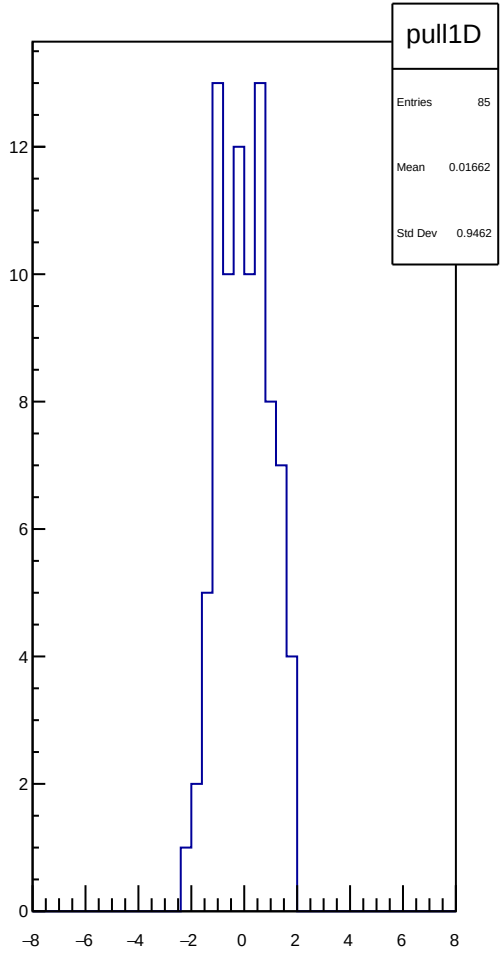

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 7746 / 84
p0 2142 ± 1.689
2600
2400
2200
2000
1800

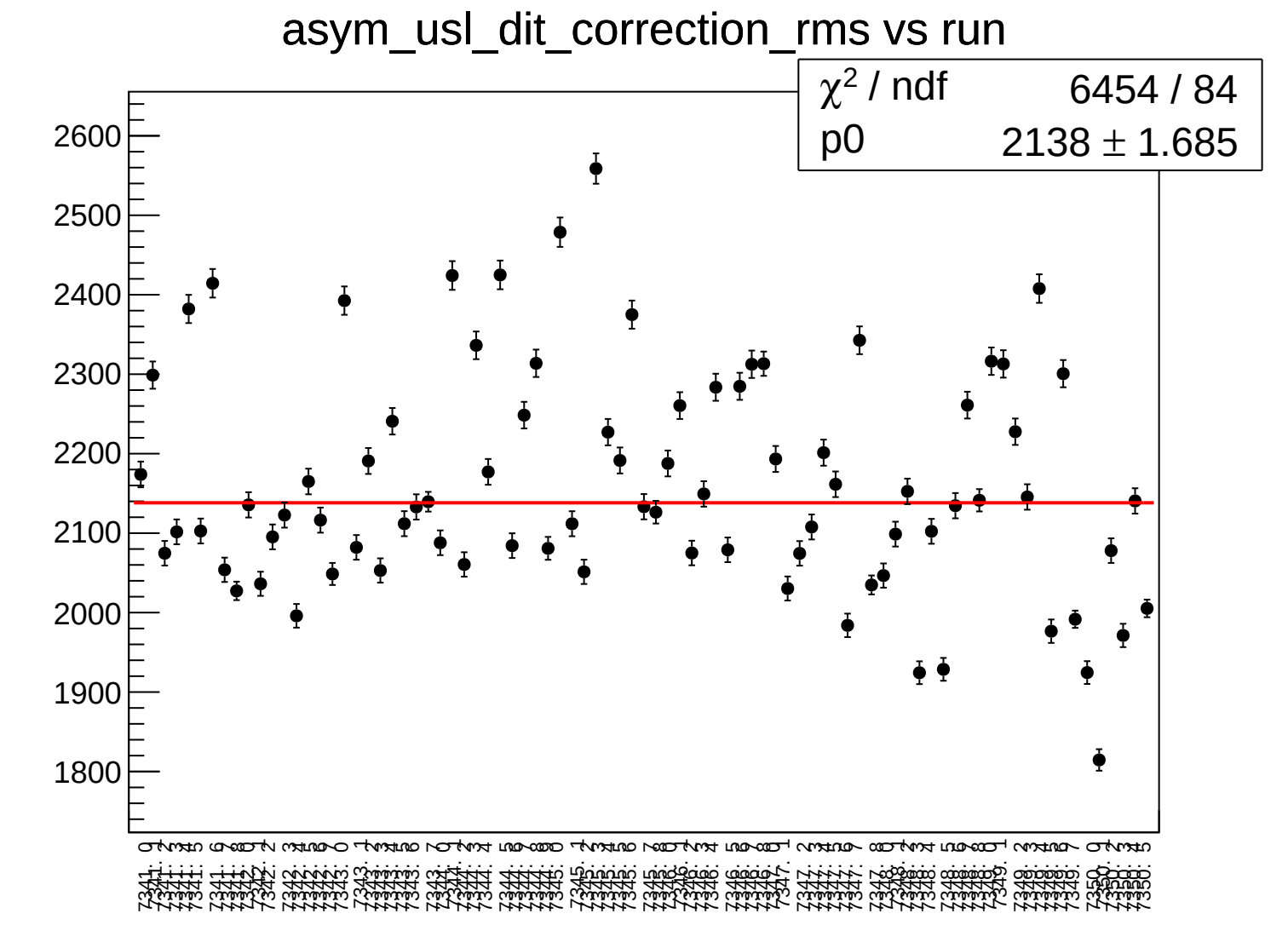

dit_asym_usl_mean vs run
χ² / ndf 86.27 / 84
p0 1040 ± 1243
pull
Entries 85
Mean −617.1
Std Dev 0

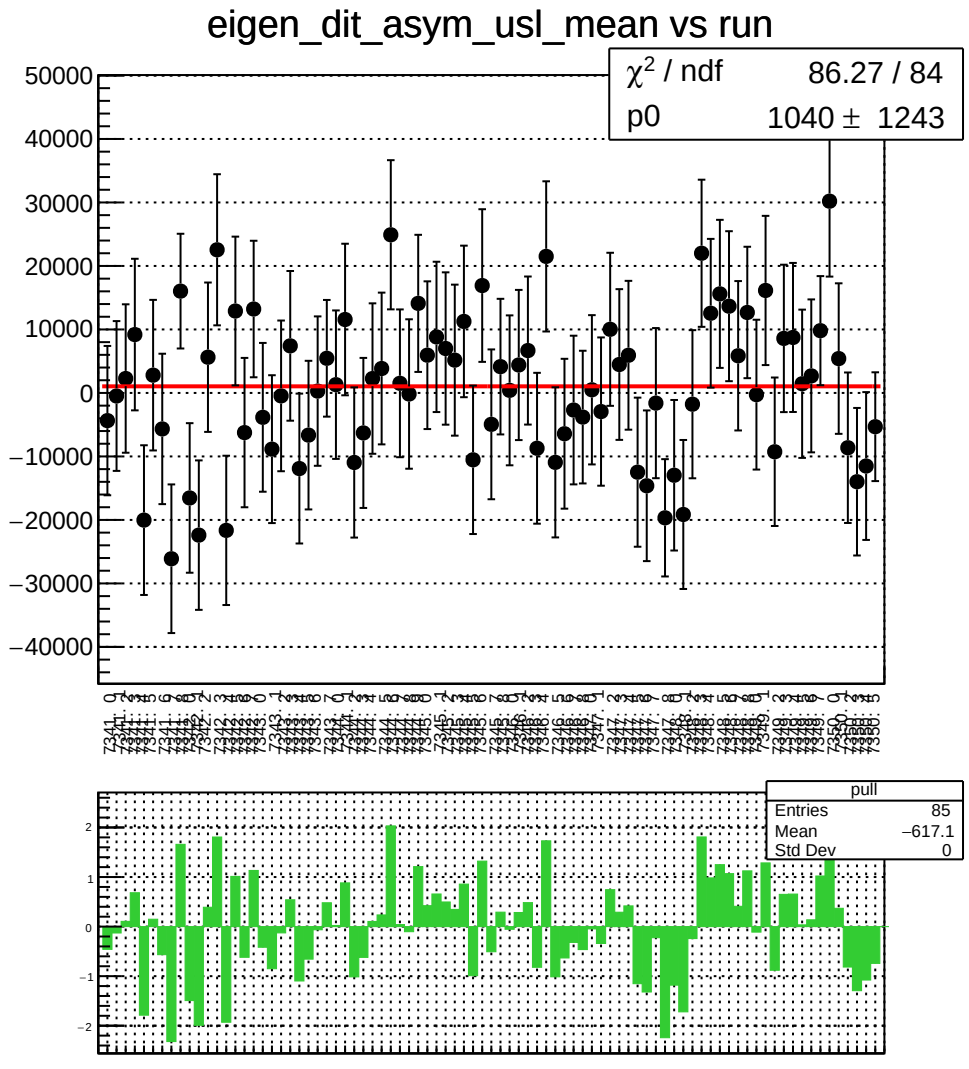

pull1D
Entries 85
Mean −0.004151
Std Dev 1.007

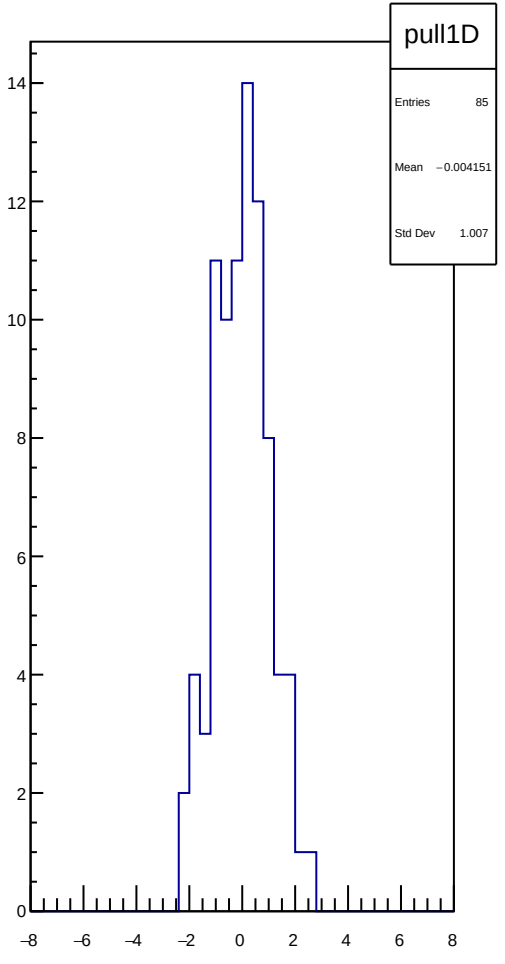

dit_asym_usl_rms vs run
χ² / ndf 121.4 / 84
p0 1117 ± 0.8787
1150
1140
1130
1120
1110
1100
1090

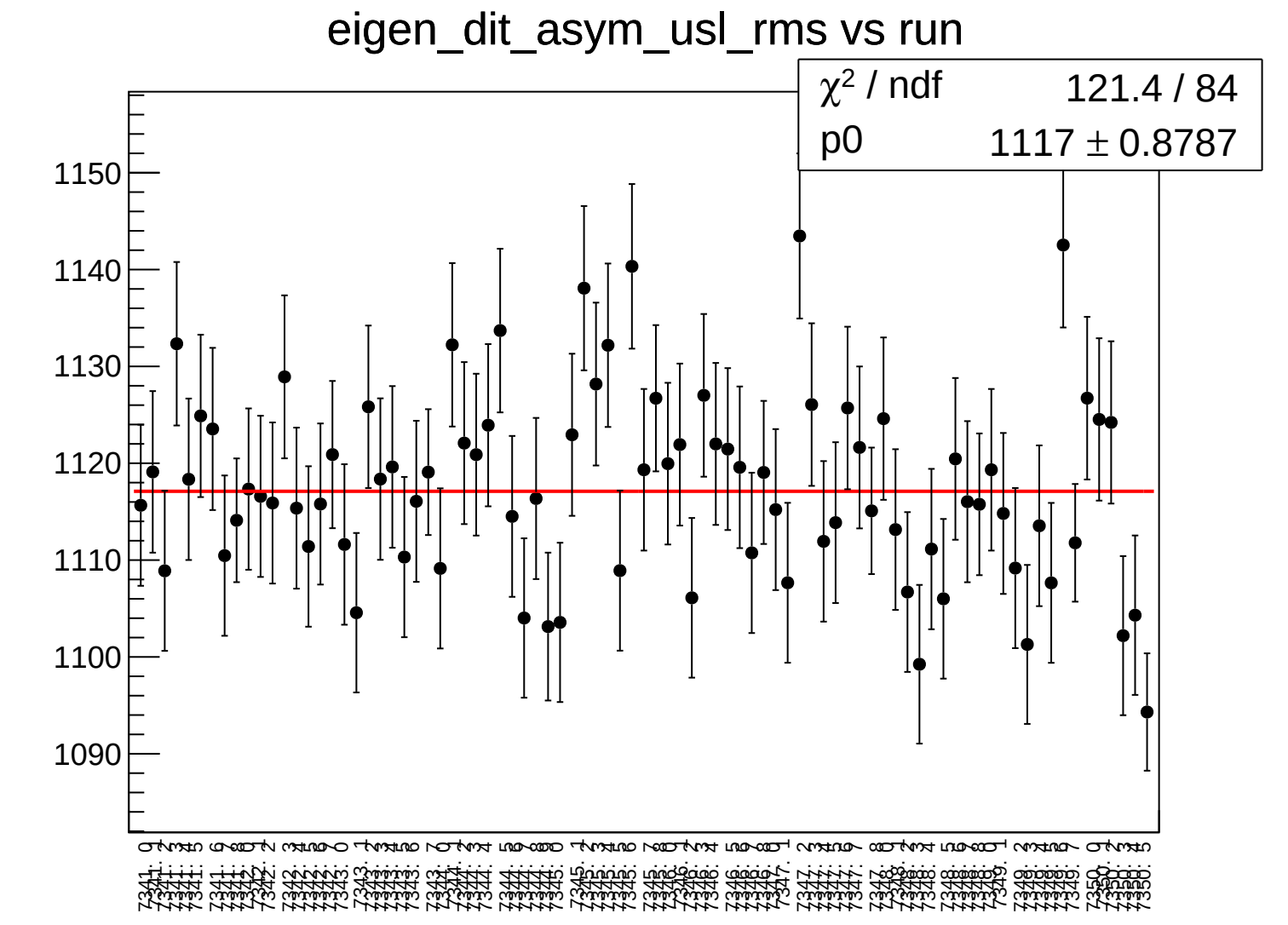

asym_usl_dit_correction_mean vs run
χ² / ndf 76.12 / 84
p0 −1692 ± 2383
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

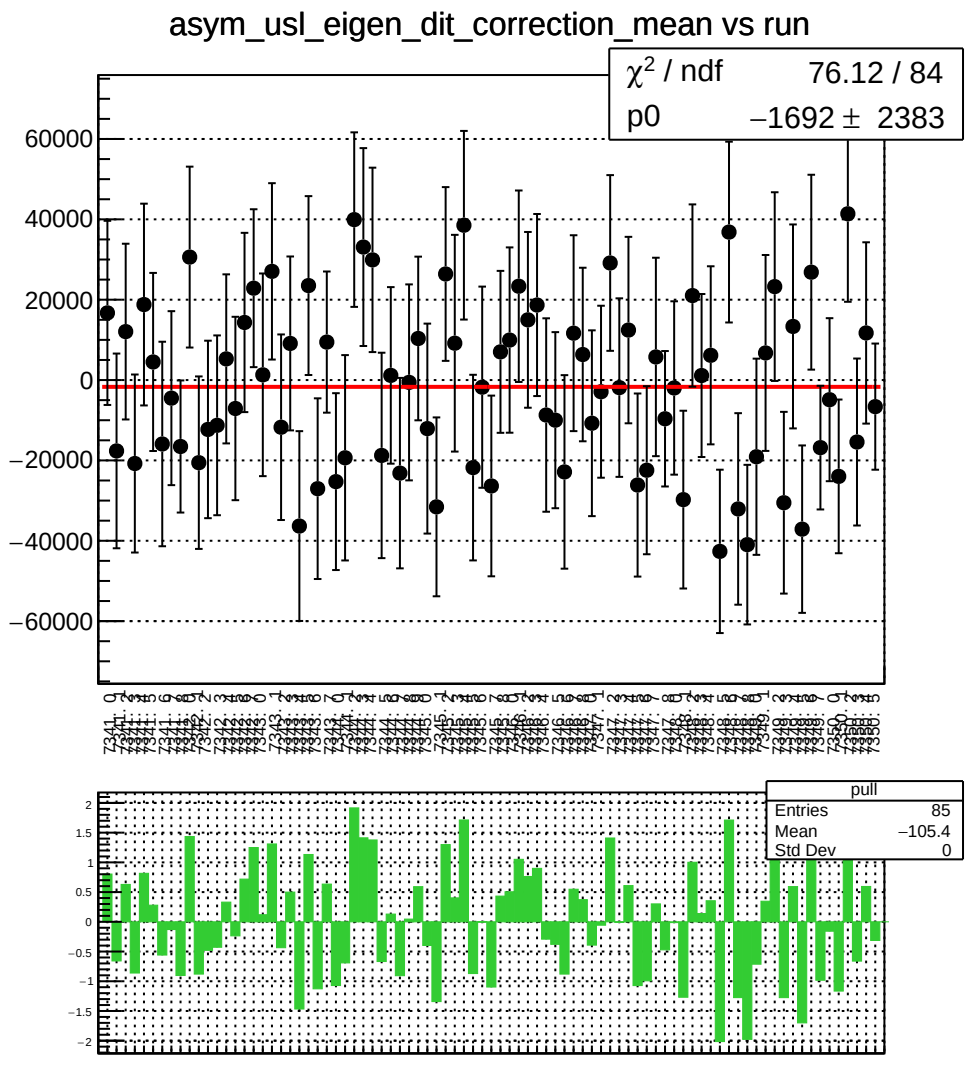

pull1D
Entries 85
Mean 0.01662
Std Dev 0.9462
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

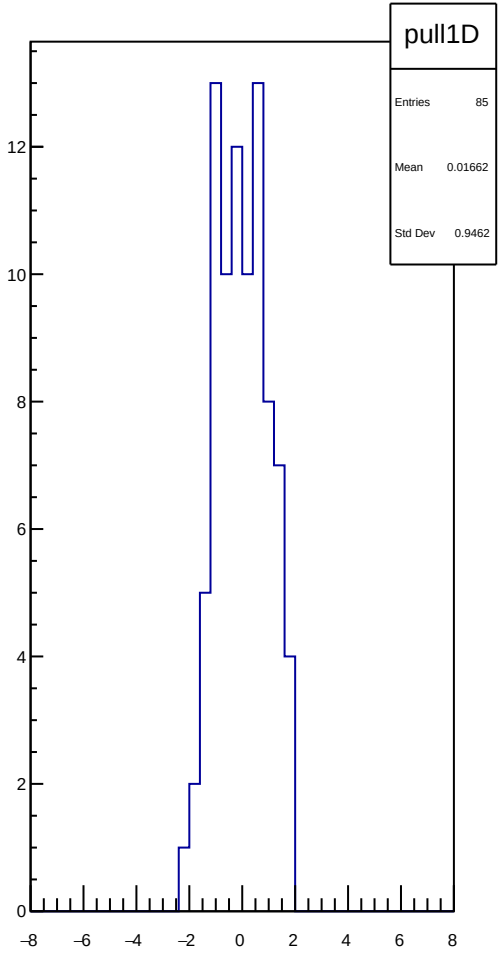

asym_usl_dit_correction_rms vs run
χ² / ndf 6454 / 84
p0 2138 ± 1.685
2600
2500
2400
2300
2200
2100
2000
1900
1800

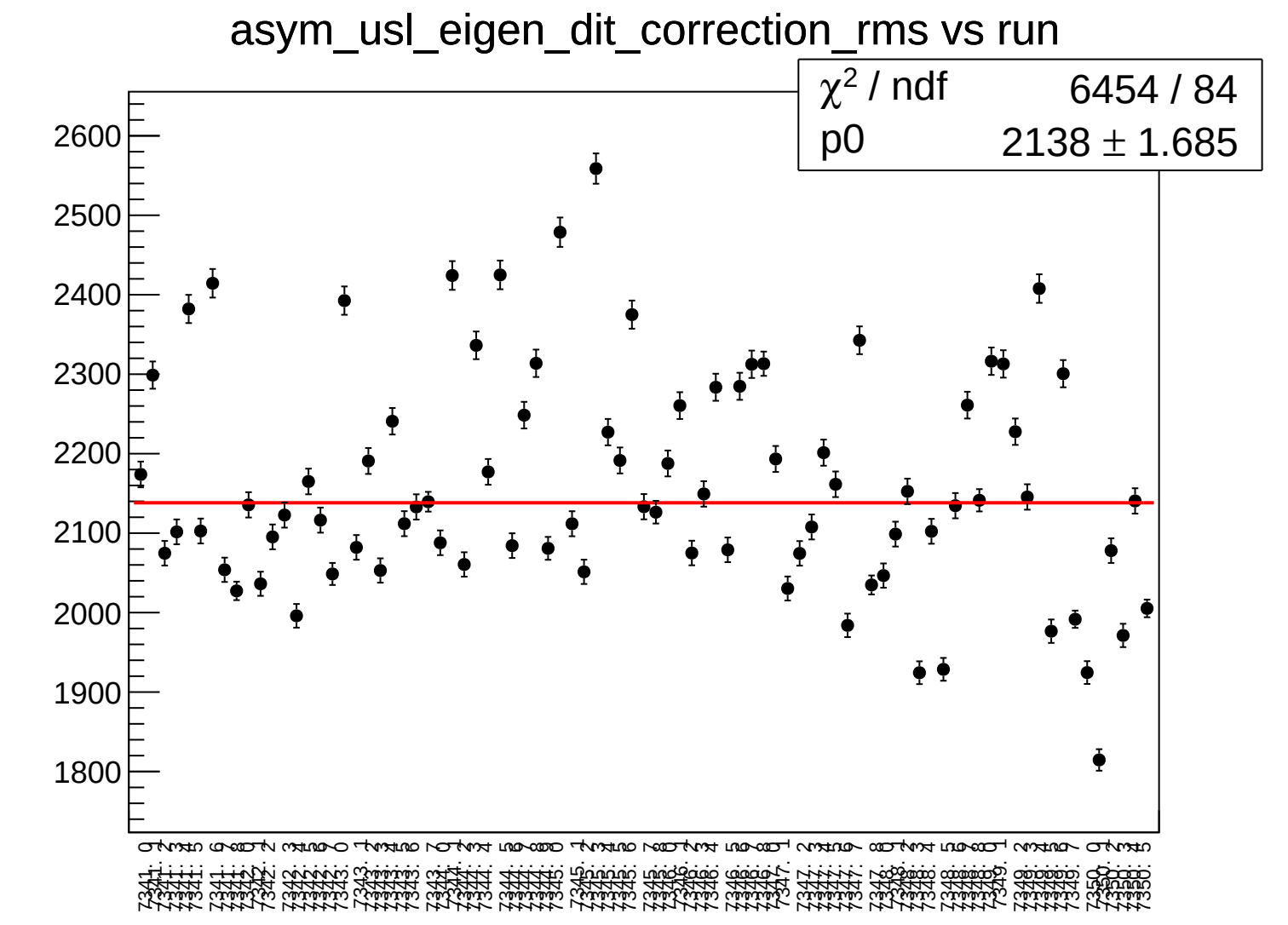

eigen_dit_asym_usl_mean vs run
χ² / ndf 86.27 / 84
p0 1040 ± 1243
pull
Entries 85
Mean −617.1
Std Dev 0

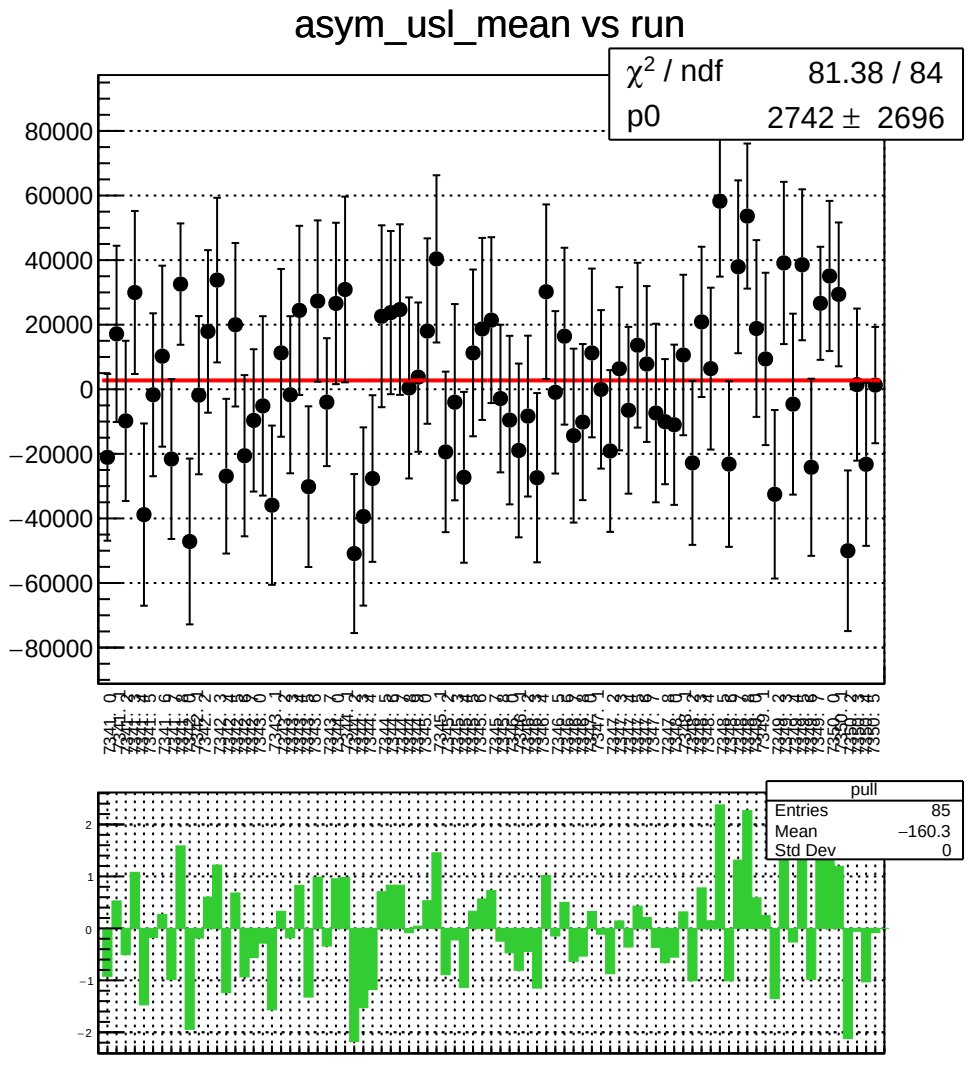

pull1D
Entries 85
Mean −0.004151
Std Dev 1.007

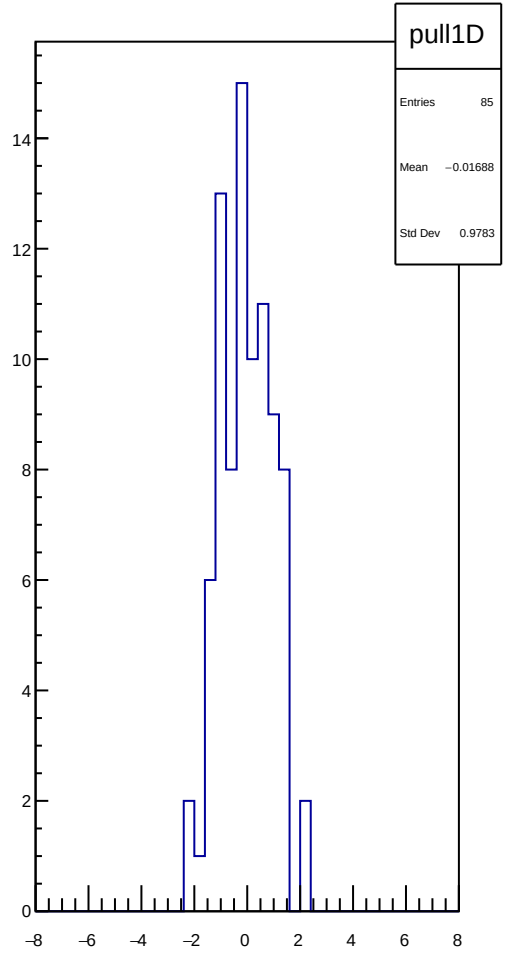

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 121.4 / 84
p0 1117 ± 0.8787
1150
1140
1130
1120
1110
1100
1090

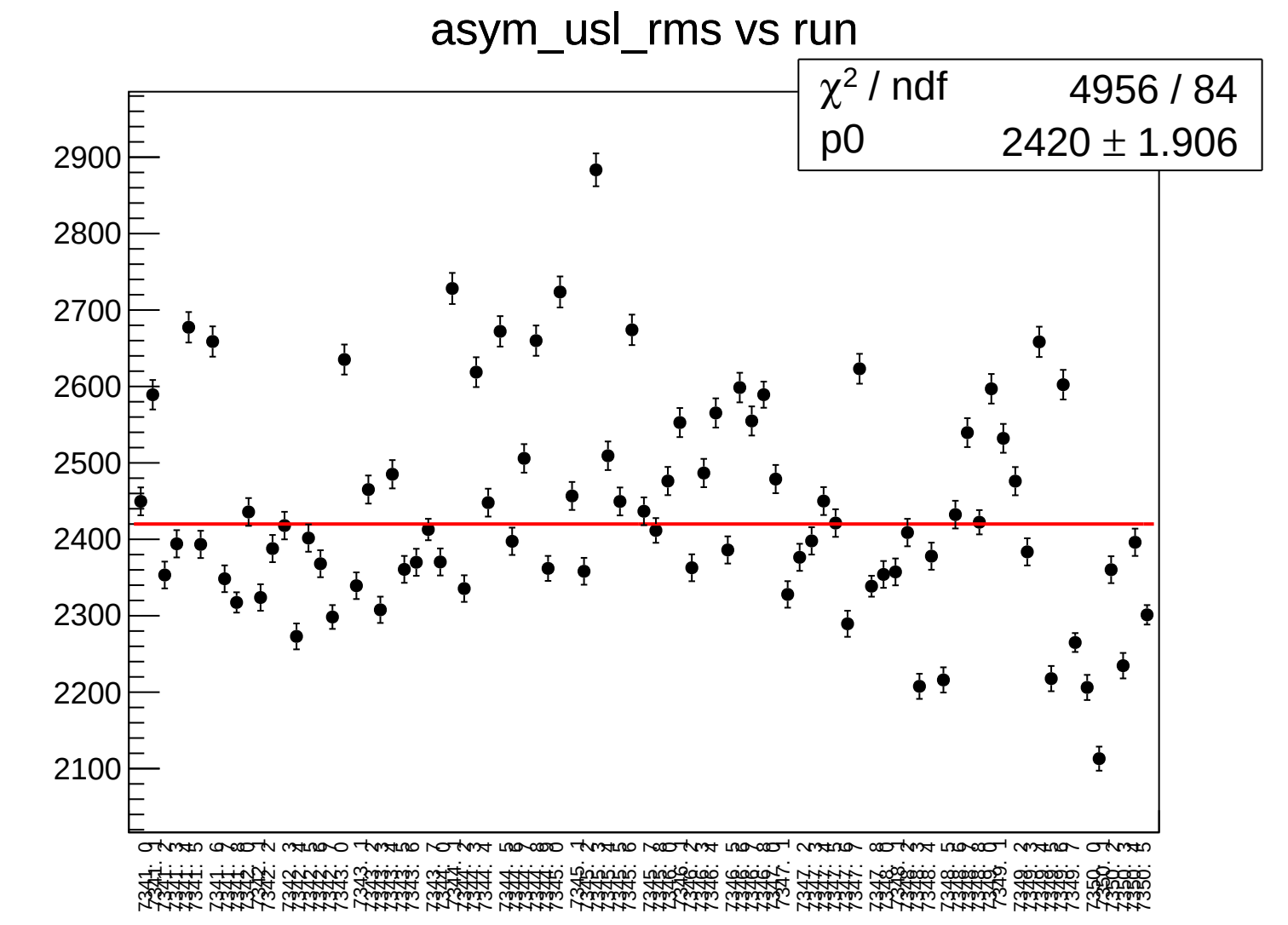

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 76.12 / 84
p0 −1692 ± 2383
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −105.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

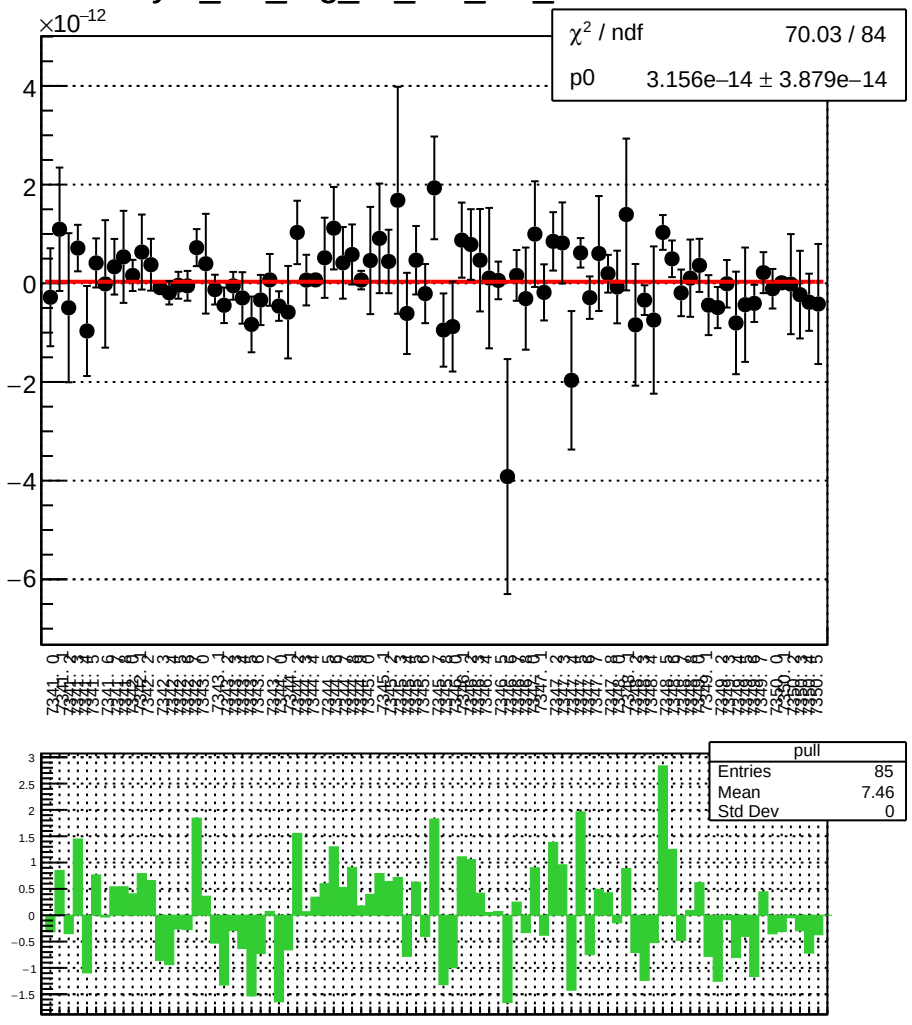

pull1D
Entries 85
Mean 0.01662
Std Dev 0.9462
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

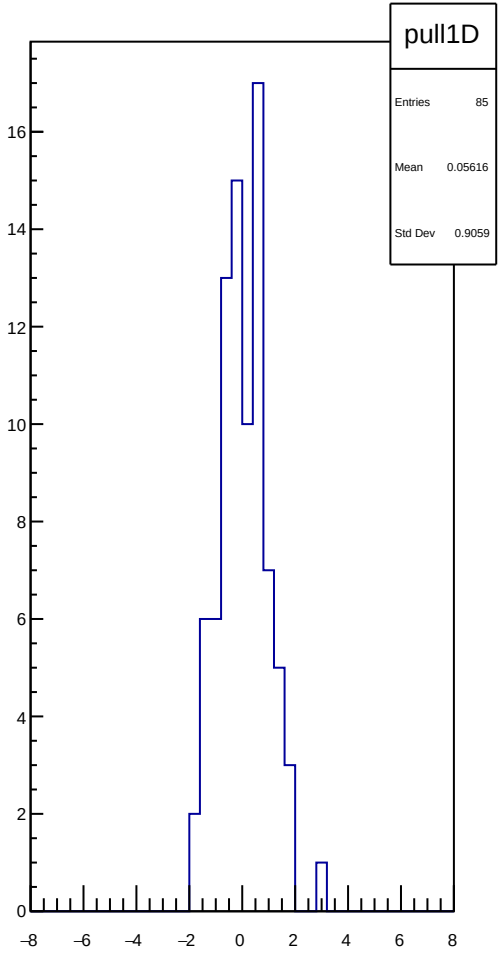

asym_usl_eigen_dit_correction_rms vs run
χ^2 / ndf 6454 / 84
p0 2138 ± 1.685
2600
2500
2400
2300
2200
2100
2000
1900
1800

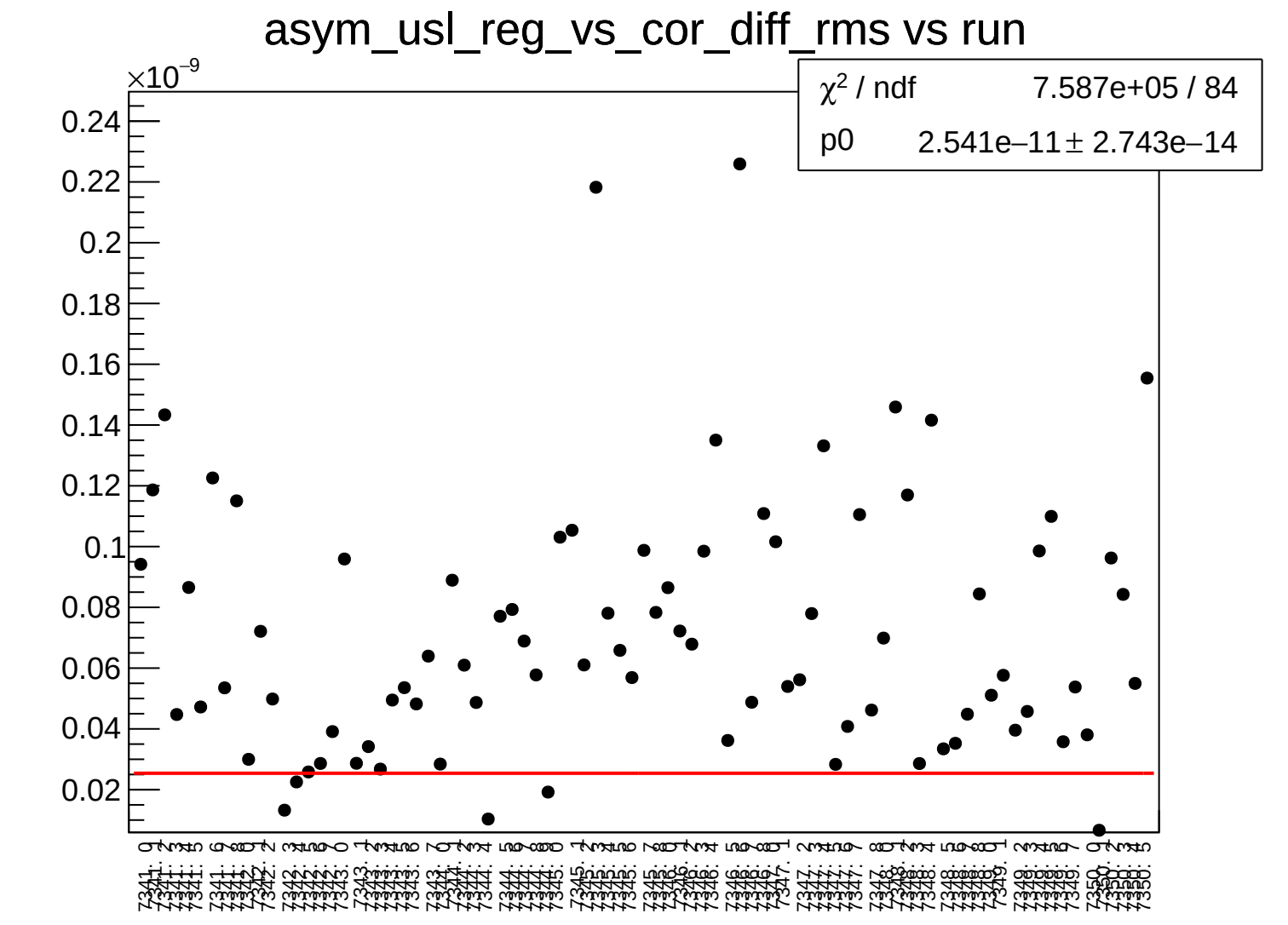

asym_usl_mean vs run
χ² / ndf 81.38 / 84
p0 2742 ± 2696
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −160.3
Std Dev 0
2
1
0
−1
−2

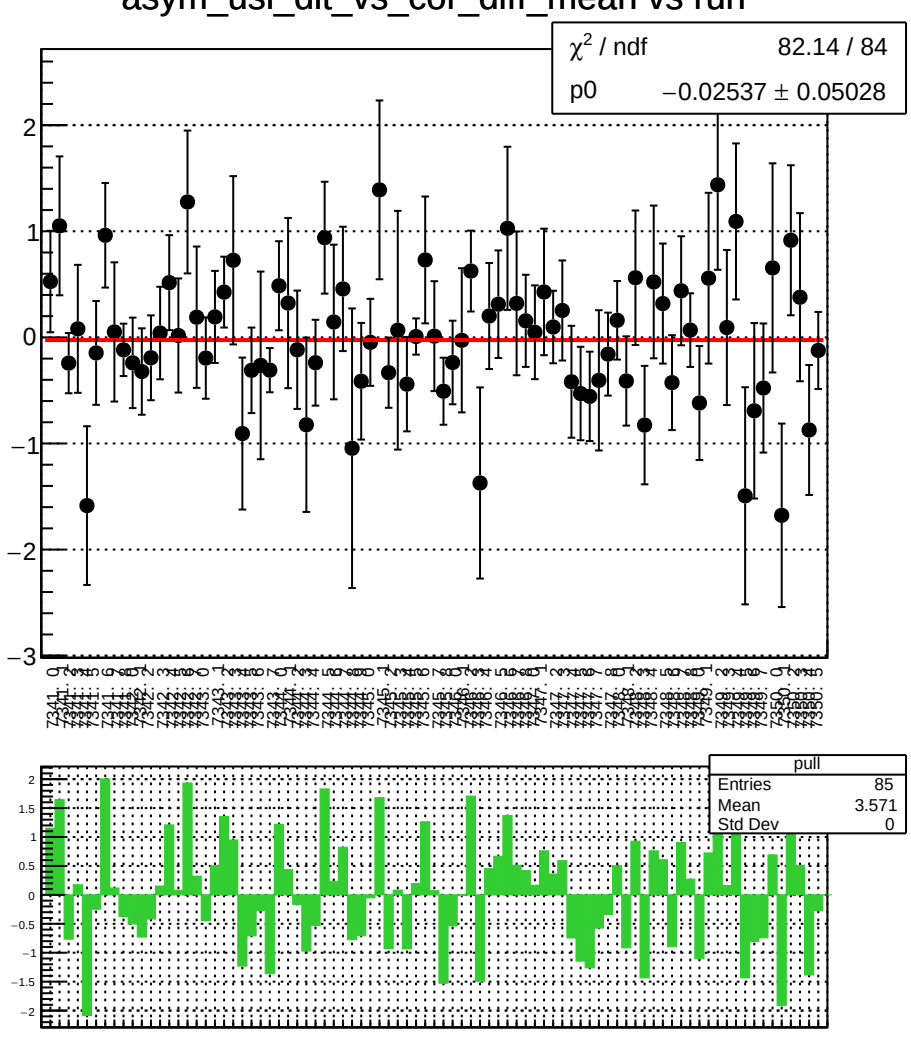

pull1D
Entries 85
Mean −0.01688
Std Dev 0.9783
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

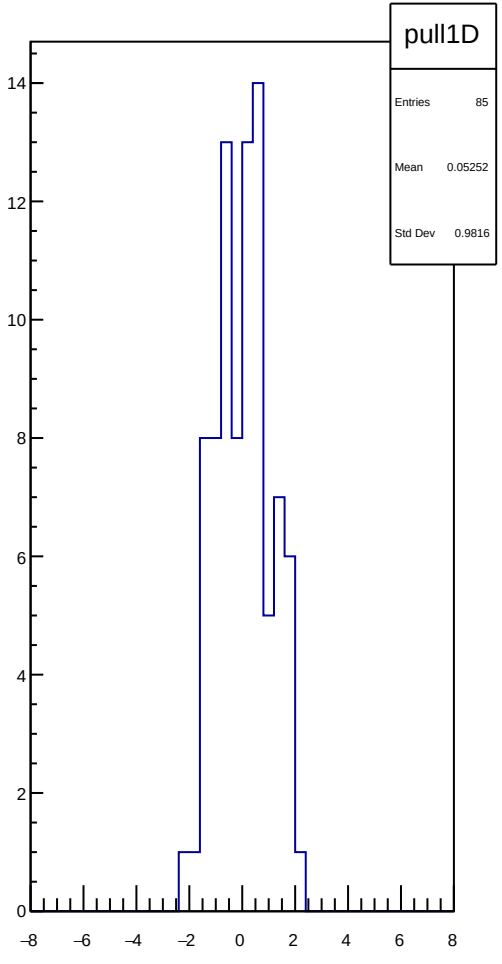

asym_usl_rms vs run
χ² / ndf 4956 / 84
p0 2420 ± 1.906
2900
2800
2700
2600
2500
2400
2300
2200
2100

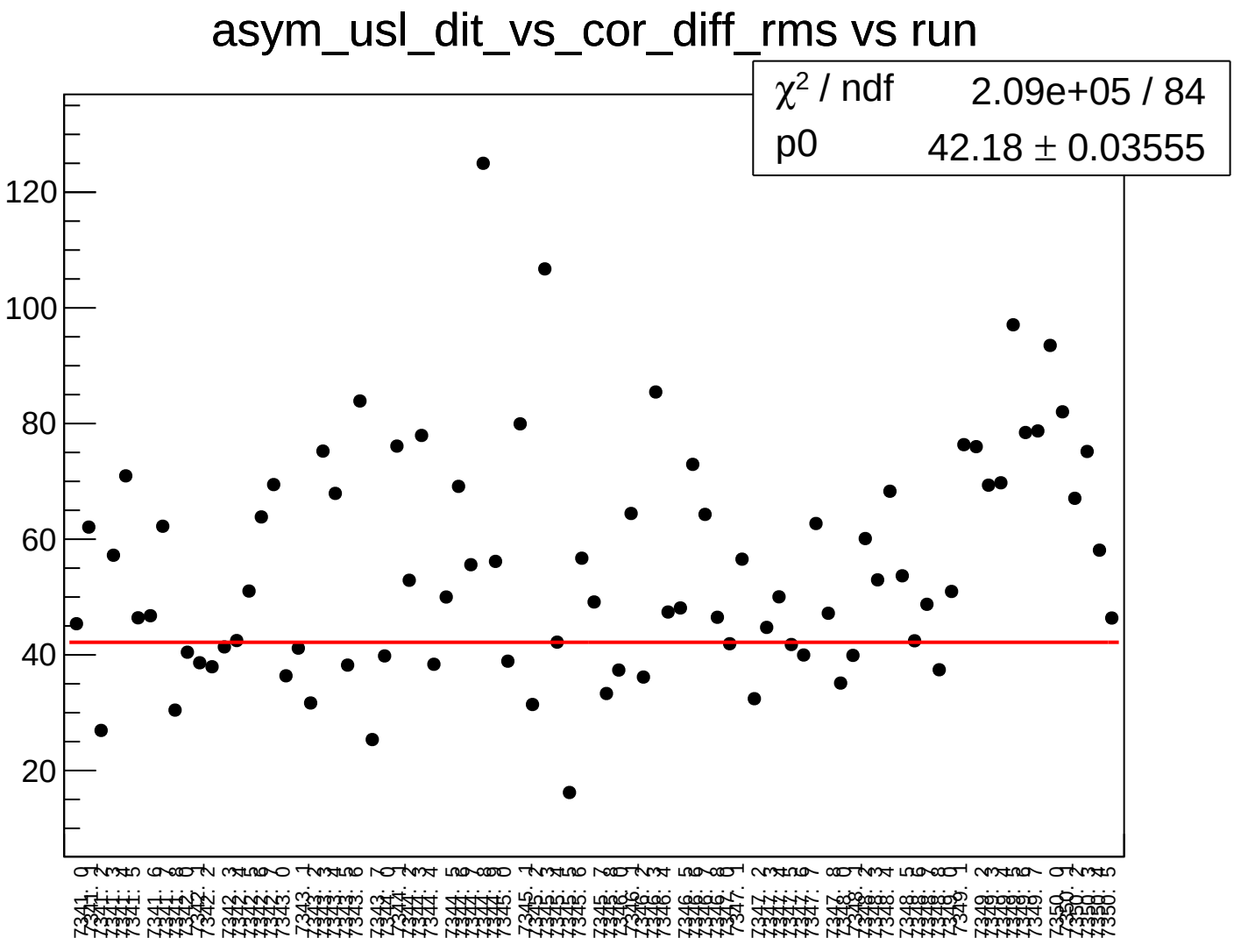

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.03 / 84
p0 3.156e−14 ± 3.879e−14
pull
Entries 85
Mean 7.46
Std Dev 0

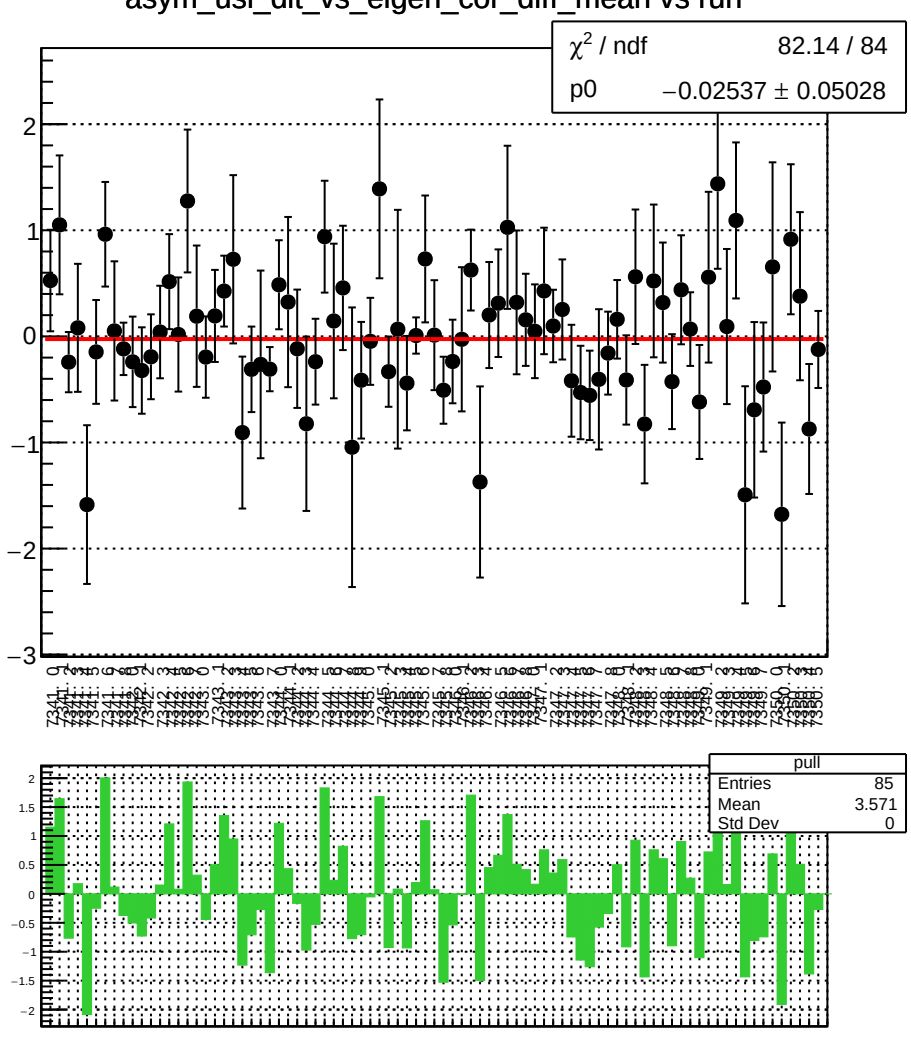

pull1D
Entries 85
Mean 0.05616
Std Dev 0.9059

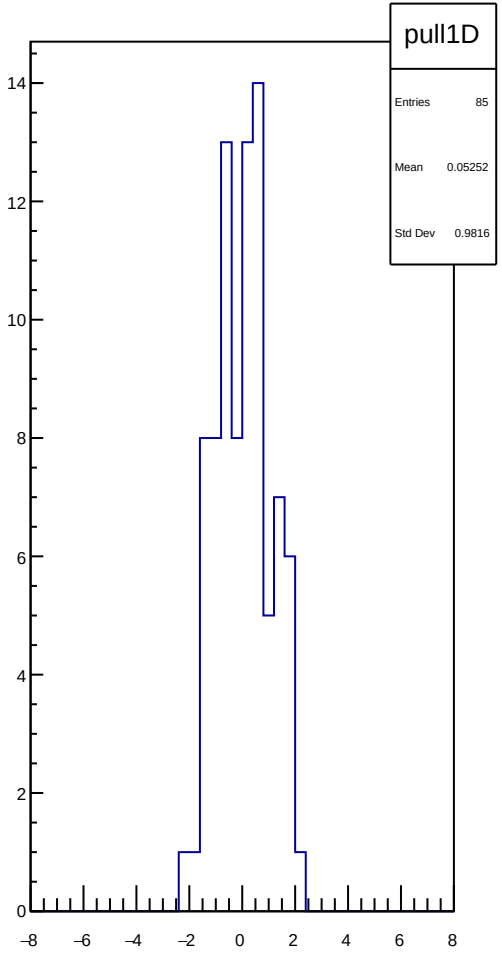

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.587e+05 / 84
p0 2.541e−11 ± 2.743e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

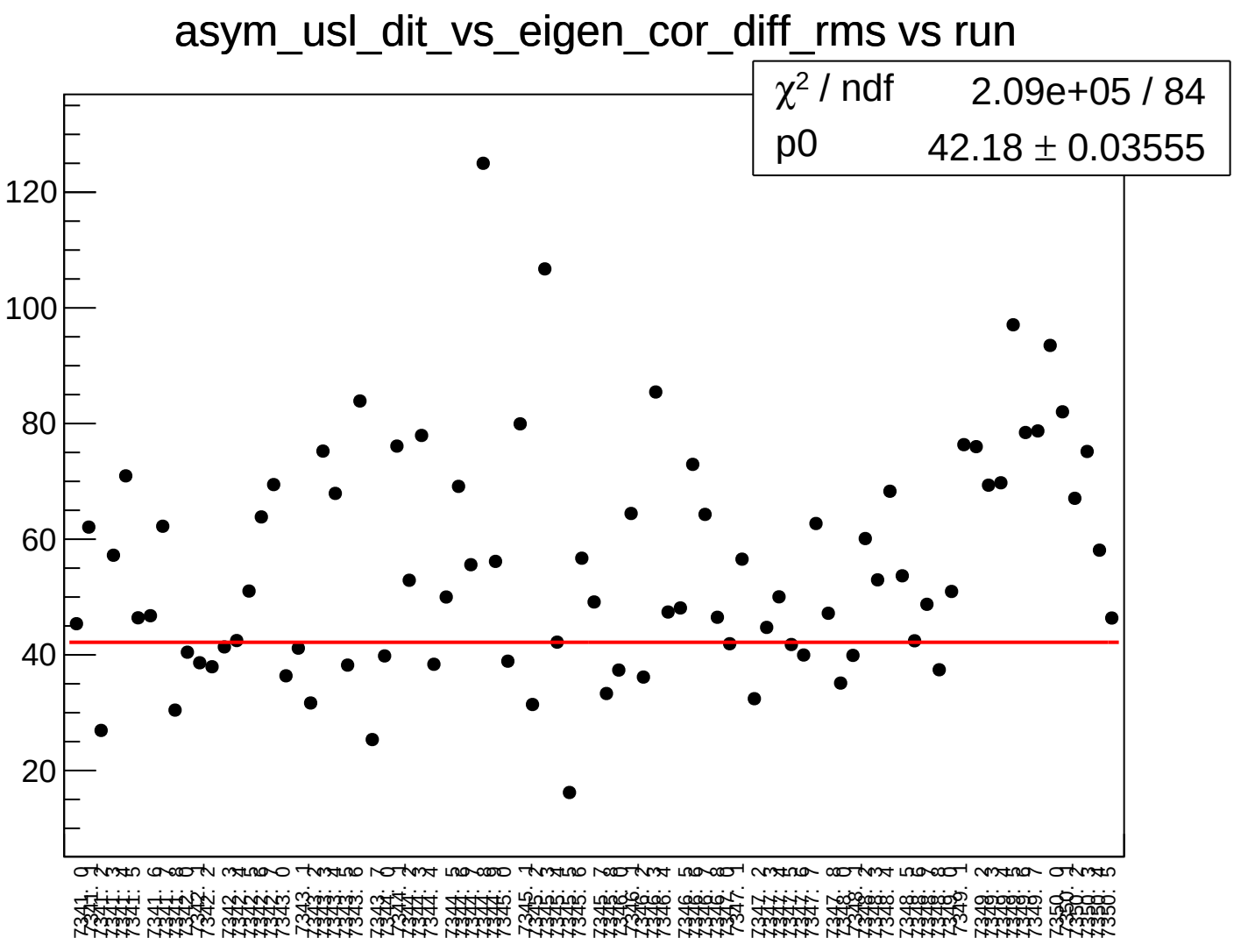

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 82.14 / 84
p0 −0.02537 ± 0.05028
pull
Entries 85
Mean 3.571
Std Dev 0

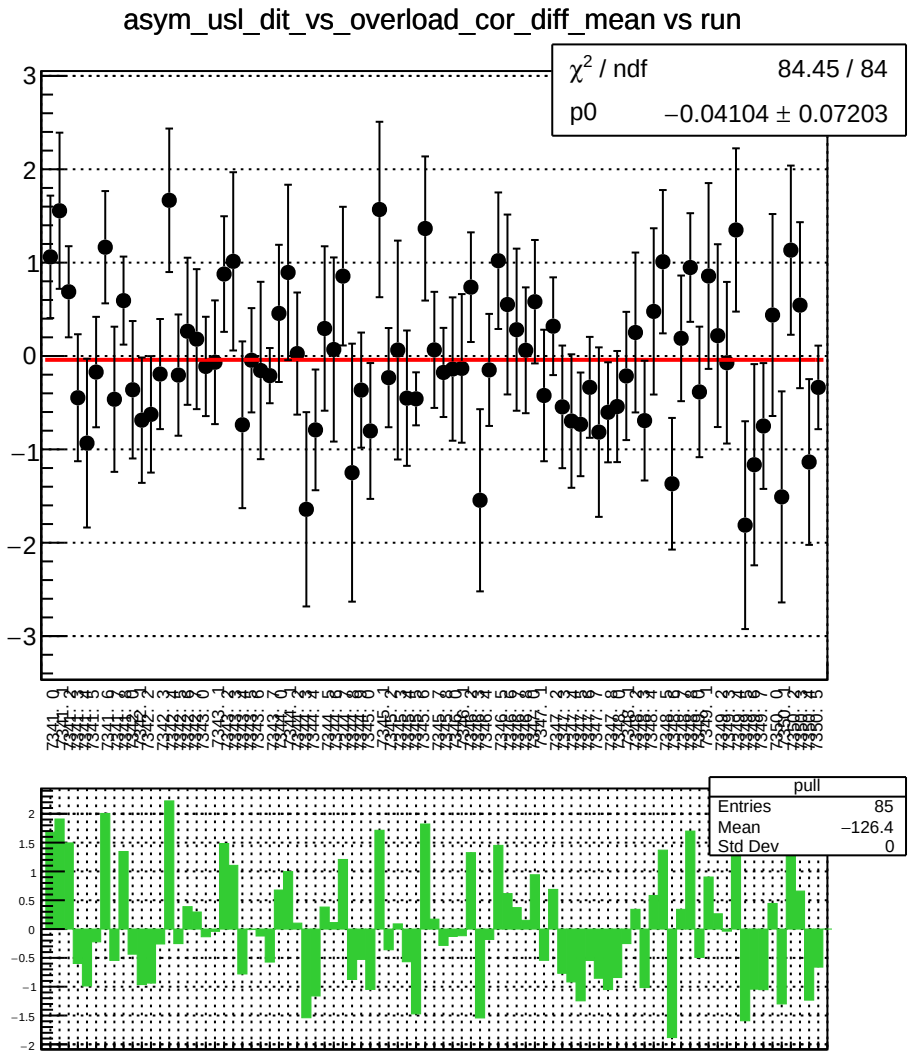

pull1D
Entries 85
Mean 0.05252
Std Dev 0.9816

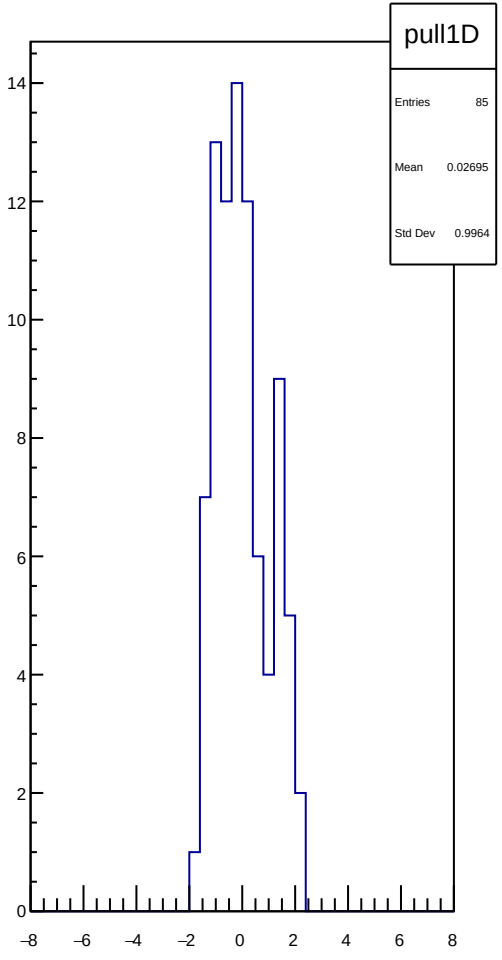

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.09e+05 / 84
p0 42.18 ± 0.03555
120
100
80
60
40
20

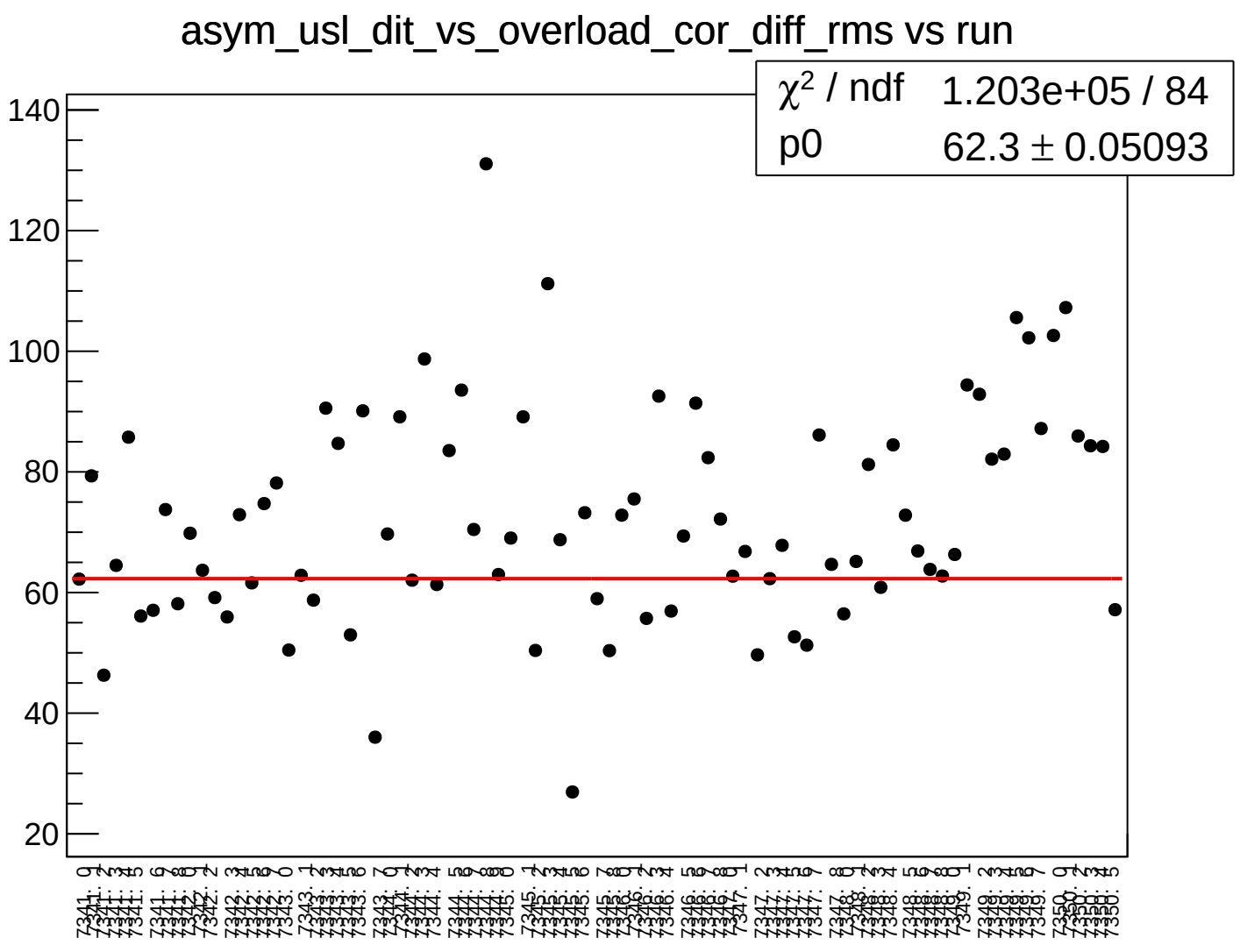

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 82.14 / 84
p0 −0.02537 ± 0.05028
pull
Entries 85
Mean 3.571
Std Dev 0

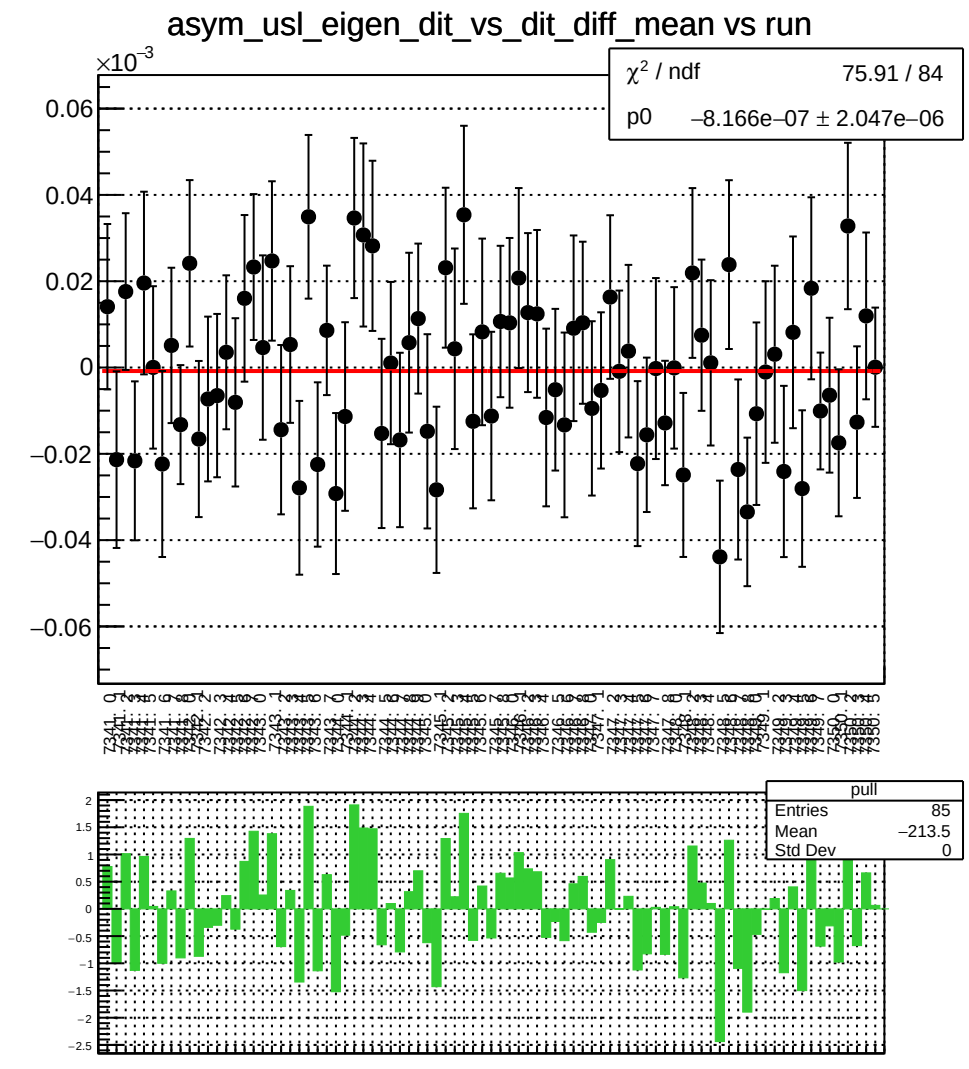

pull1D
Entries 85
Mean 0.05252
Std Dev 0.9816

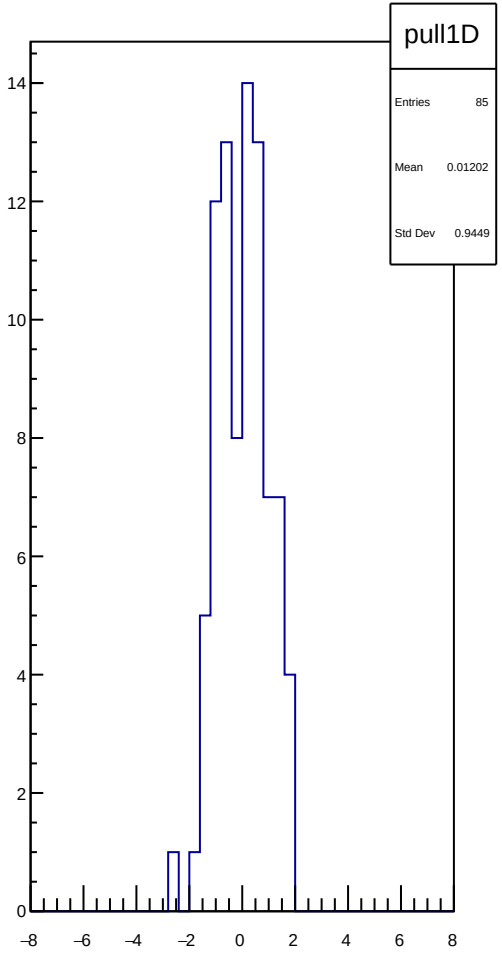

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.09e+05 / 84
p0 42.18 ± 0.03555
120
100
80
60
40
20

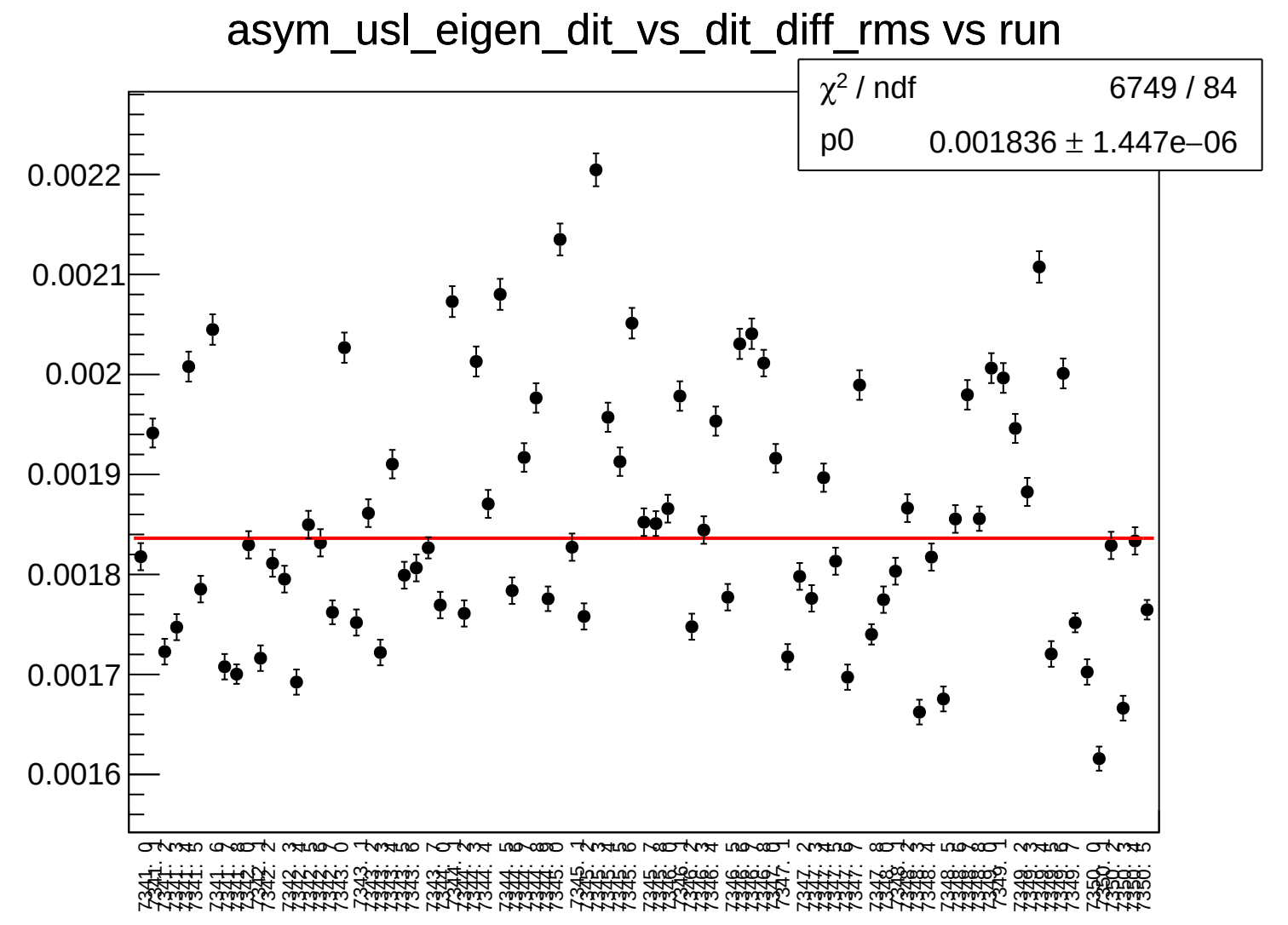

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.45 / 84
p0 −0.04104 ± 0.07203
pull
Entries 85
Mean −126.4
Std Dev 0

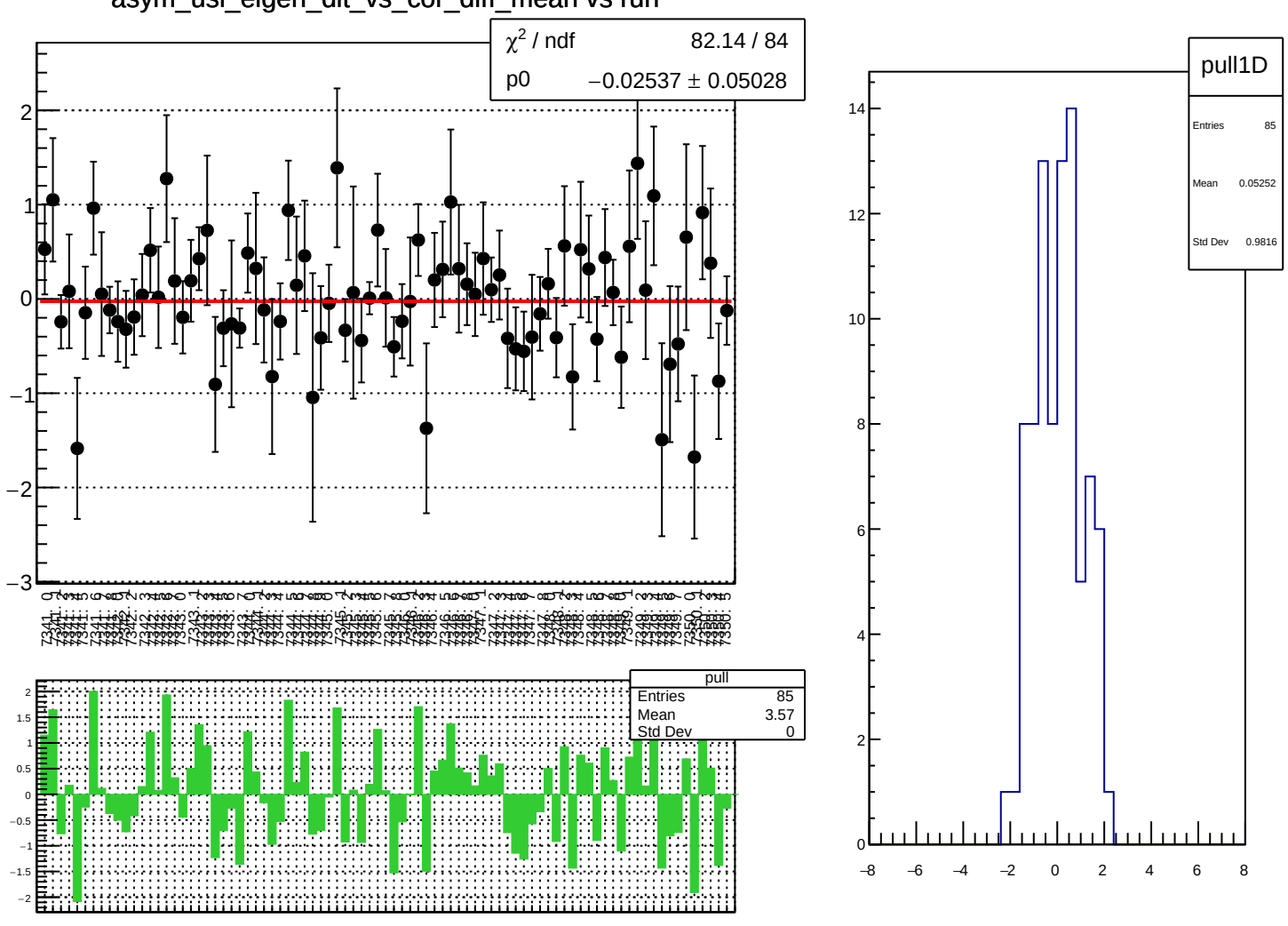

pull1D
Entries 85
Mean 0.02695
Std Dev 0.9964

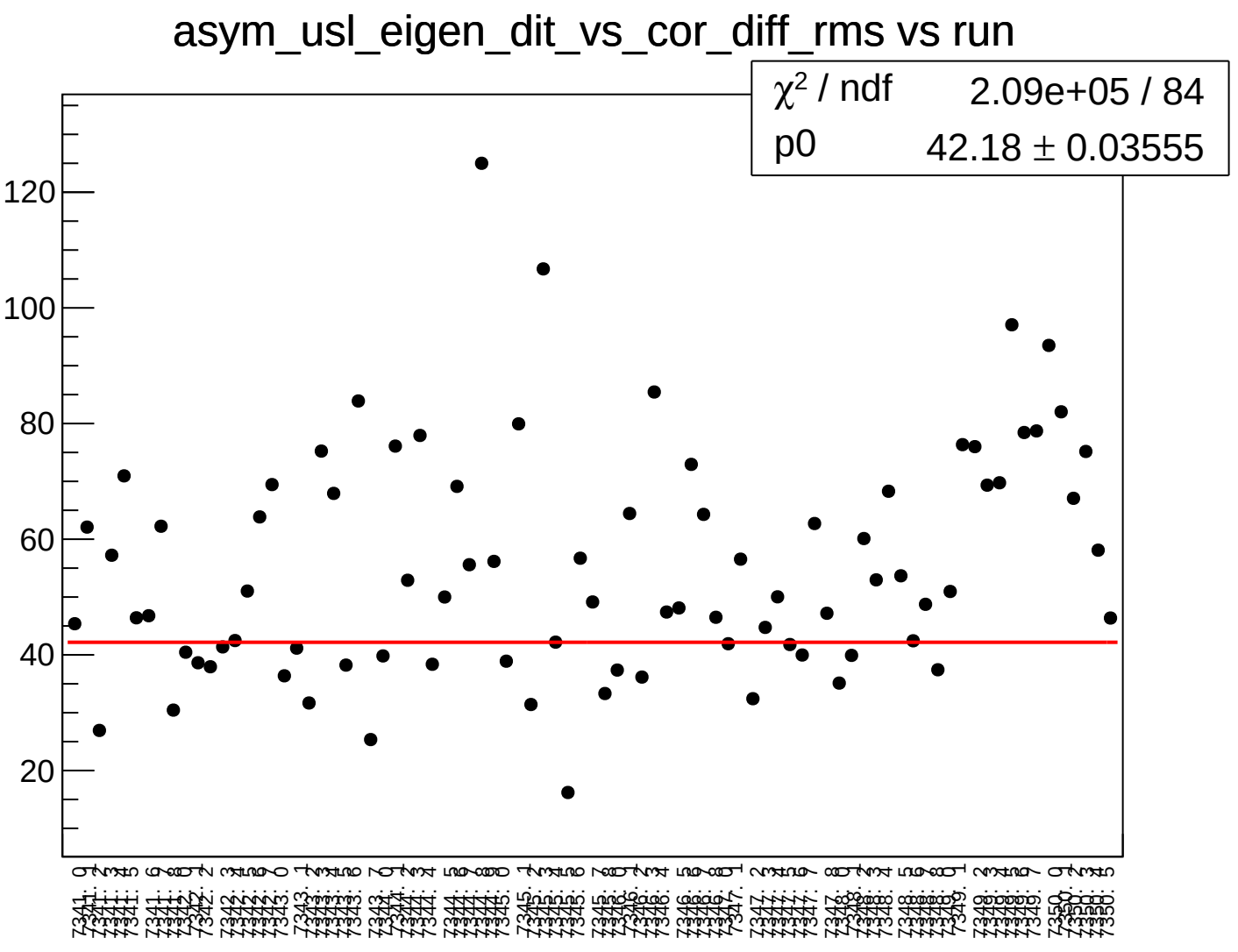

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.203e+05 / 84
p0 62.3 ± 0.05093
140
120
100
80
60
40
20

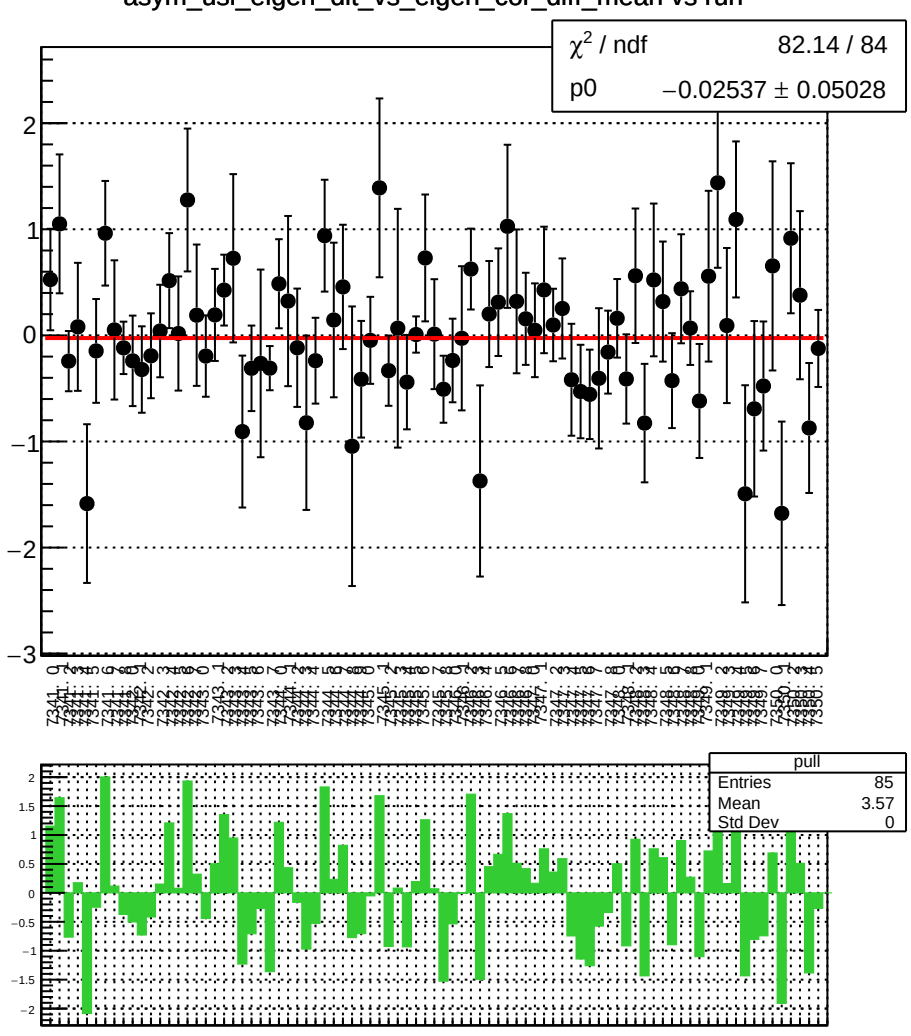

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.91 / 84
p0 −8.166e−07 ± 2.047e−06
pull
Entries 85
Mean −213.5
Std Dev 0

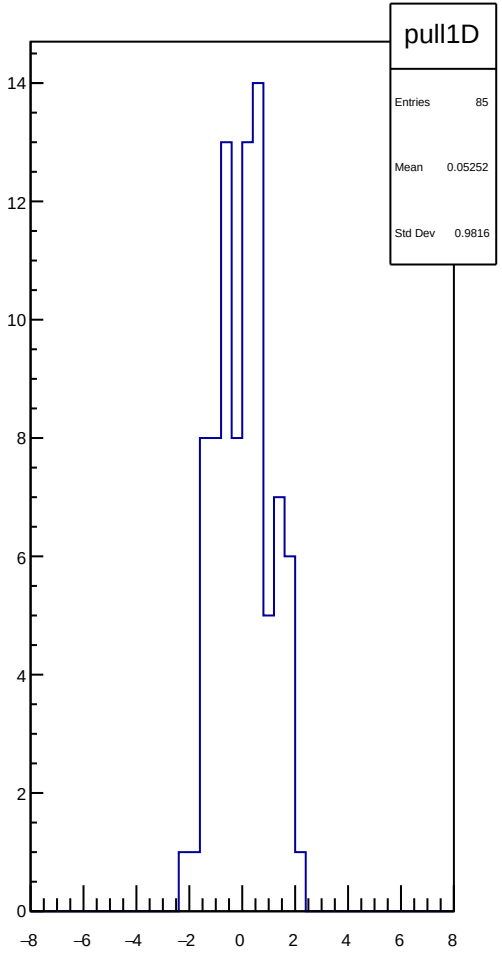

pull1D
Entries 85
Mean 0.01202
Std Dev 0.9449

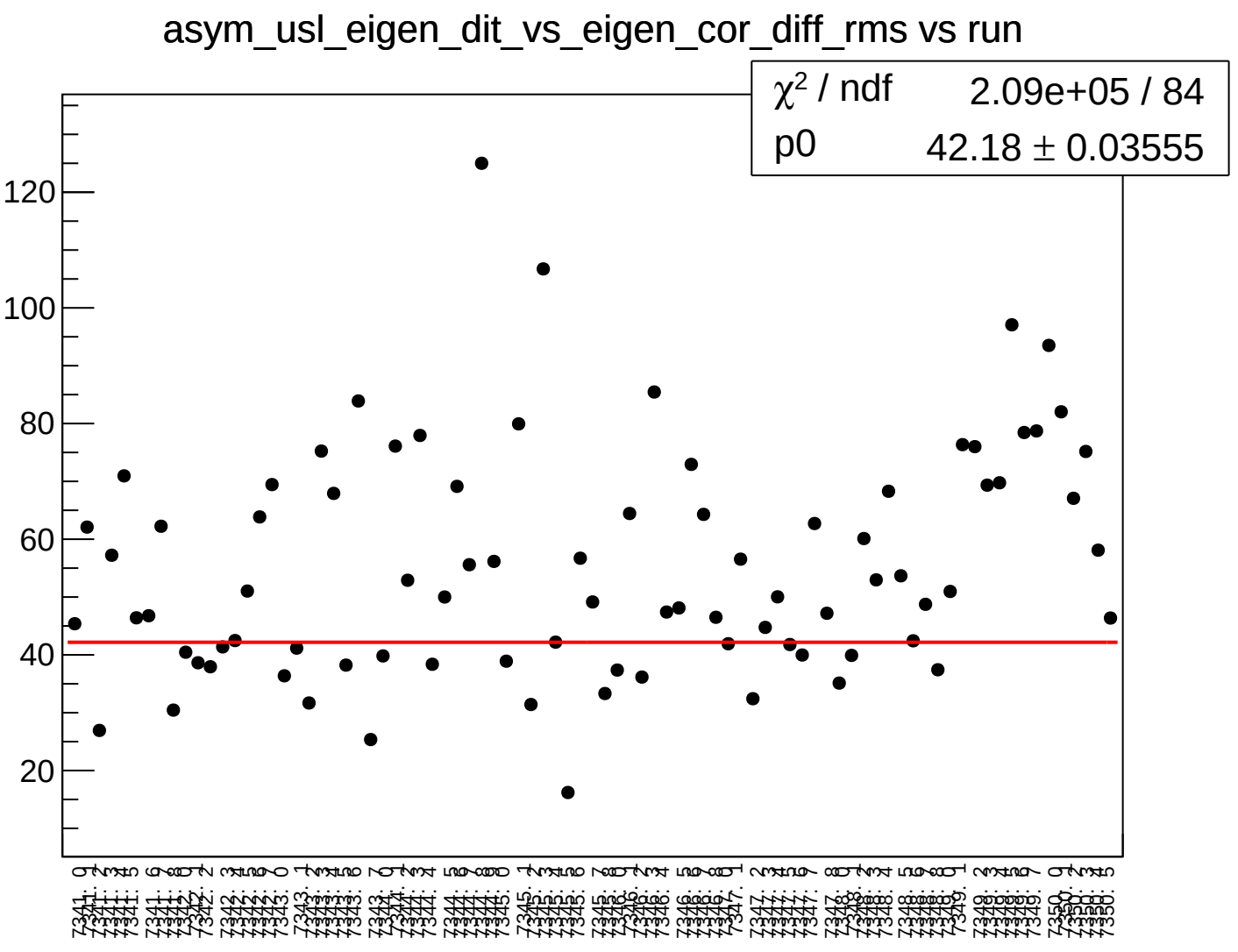

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6749 / 84
p0 0.001836 ± 1.447e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

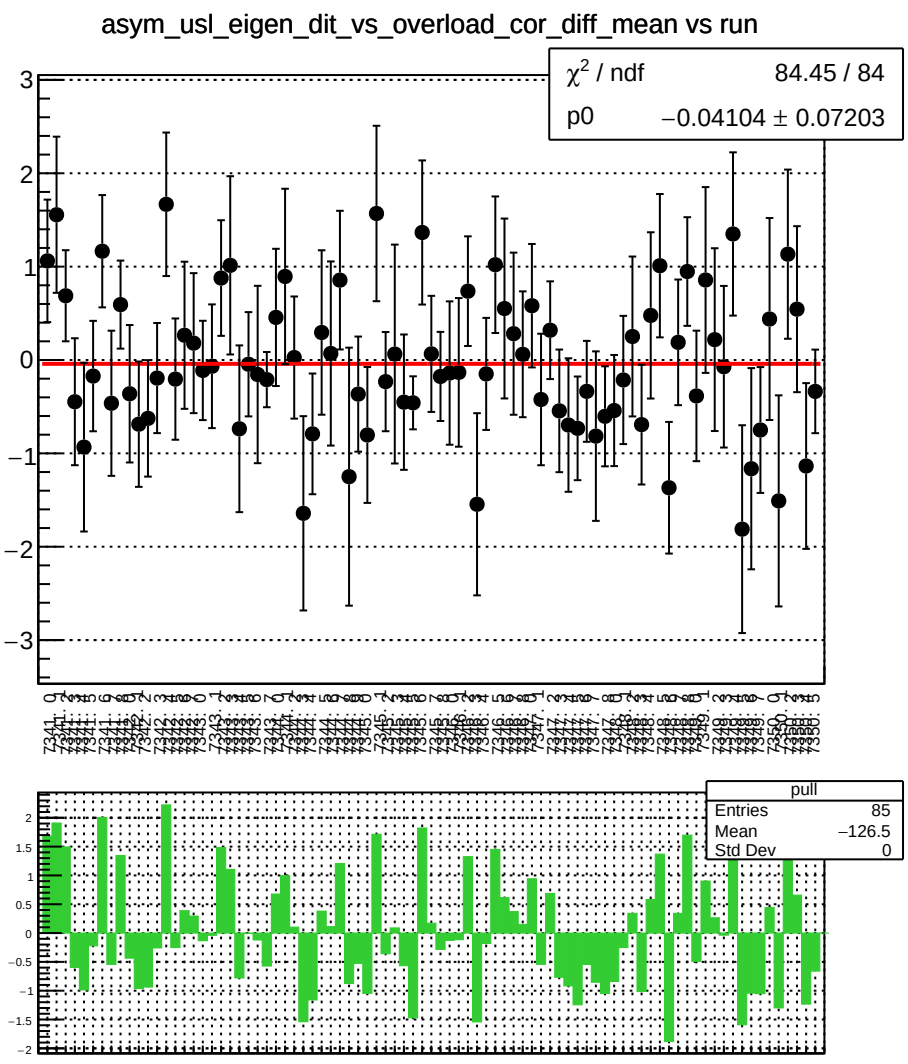

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.14 / 84
p0 −0.02537 ± 0.05028
pull
Entries 85
Mean 3.57
Std Dev 0
pull1D
Entries 85
Mean 0.05252
Std Dev 0.9816

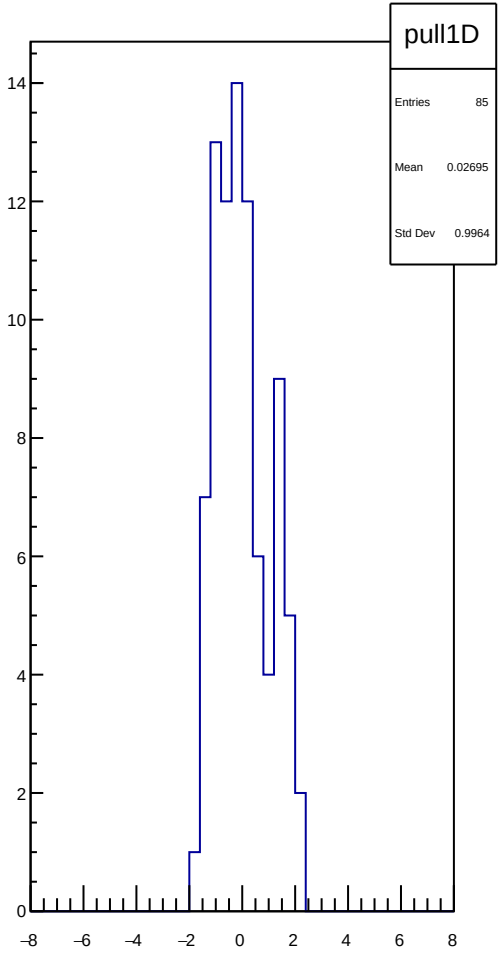

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.09e+05 / 84
p0 42.18 ± 0.03555
120
100
80
60
40
20

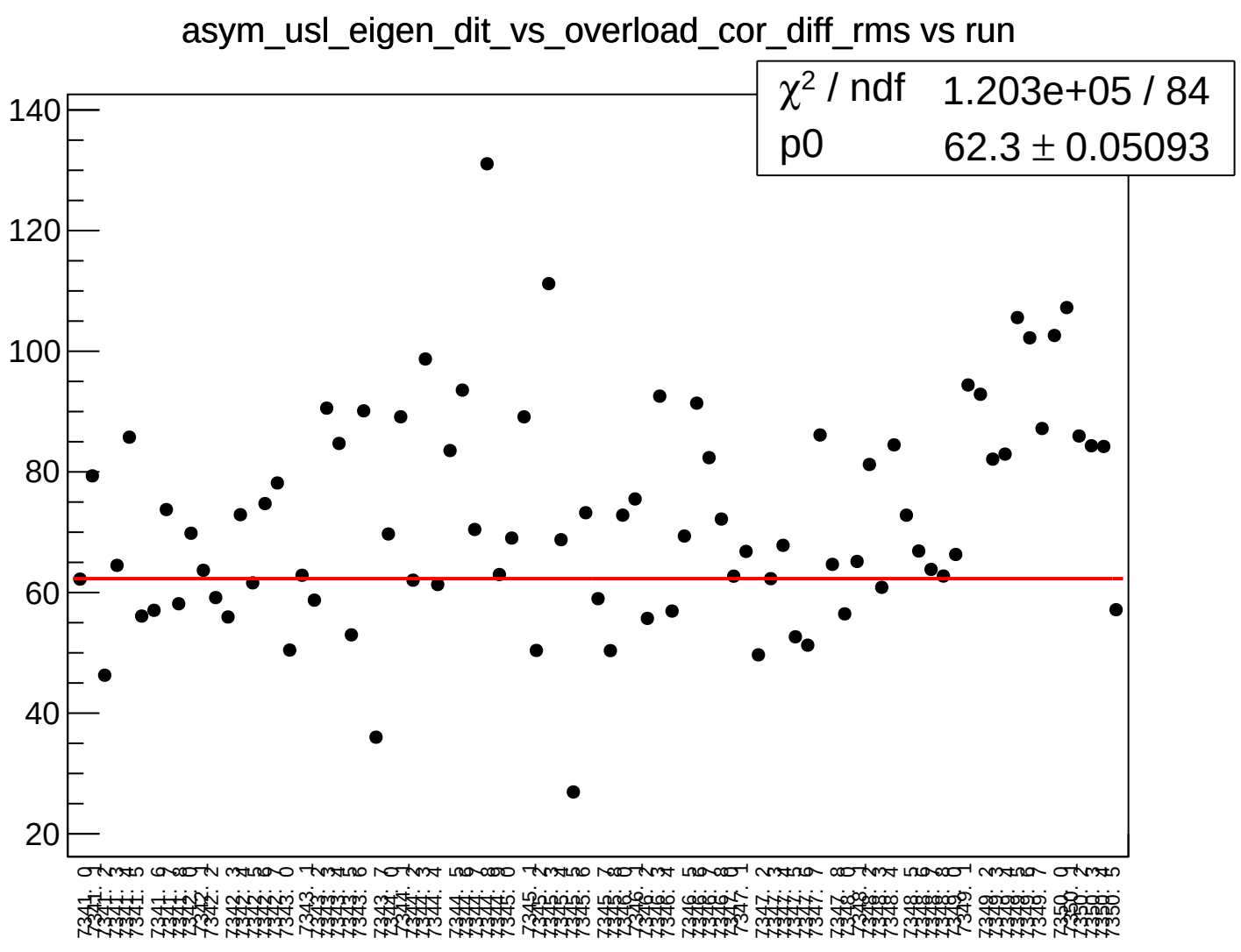

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.14 / 84
p0 −0.02537 ± 0.05028
pull
Entries 85
Mean 3.57
Std Dev 0

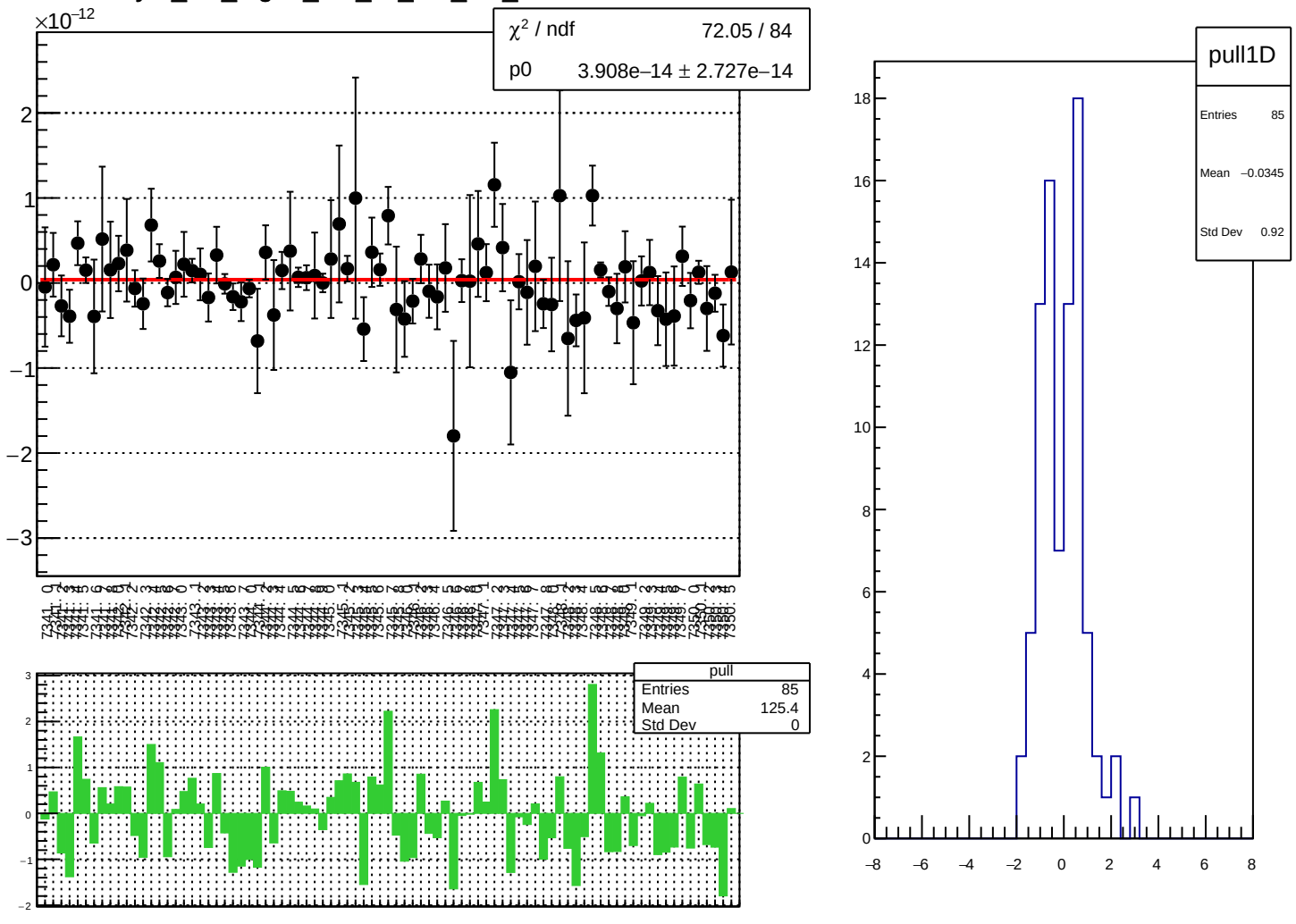

pull1D
Entries 85
Mean 0.05252
Std Dev 0.9816

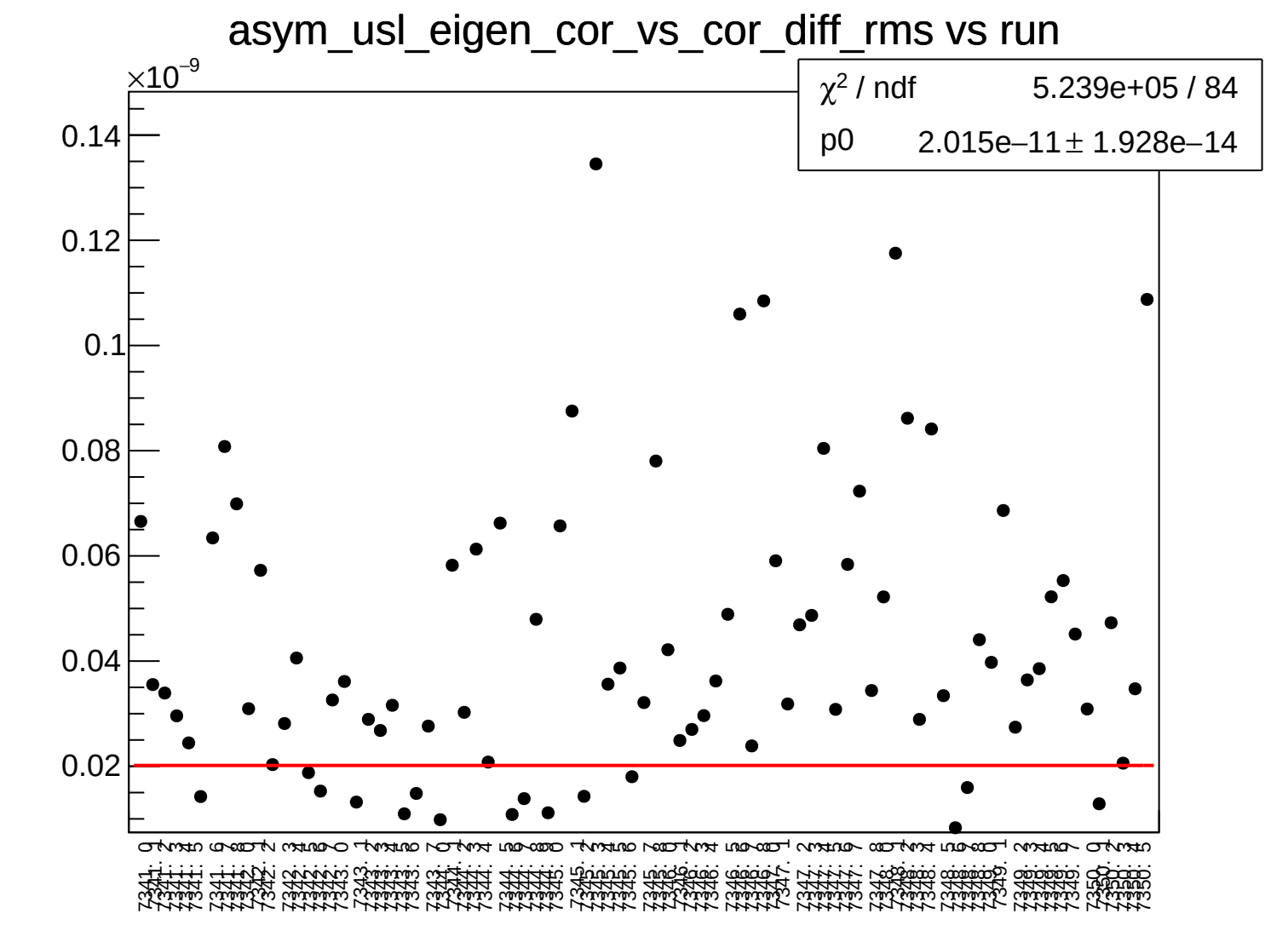

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.09e+05 / 84
p0 42.18 ± 0.03555
120
100
80
60
40
20

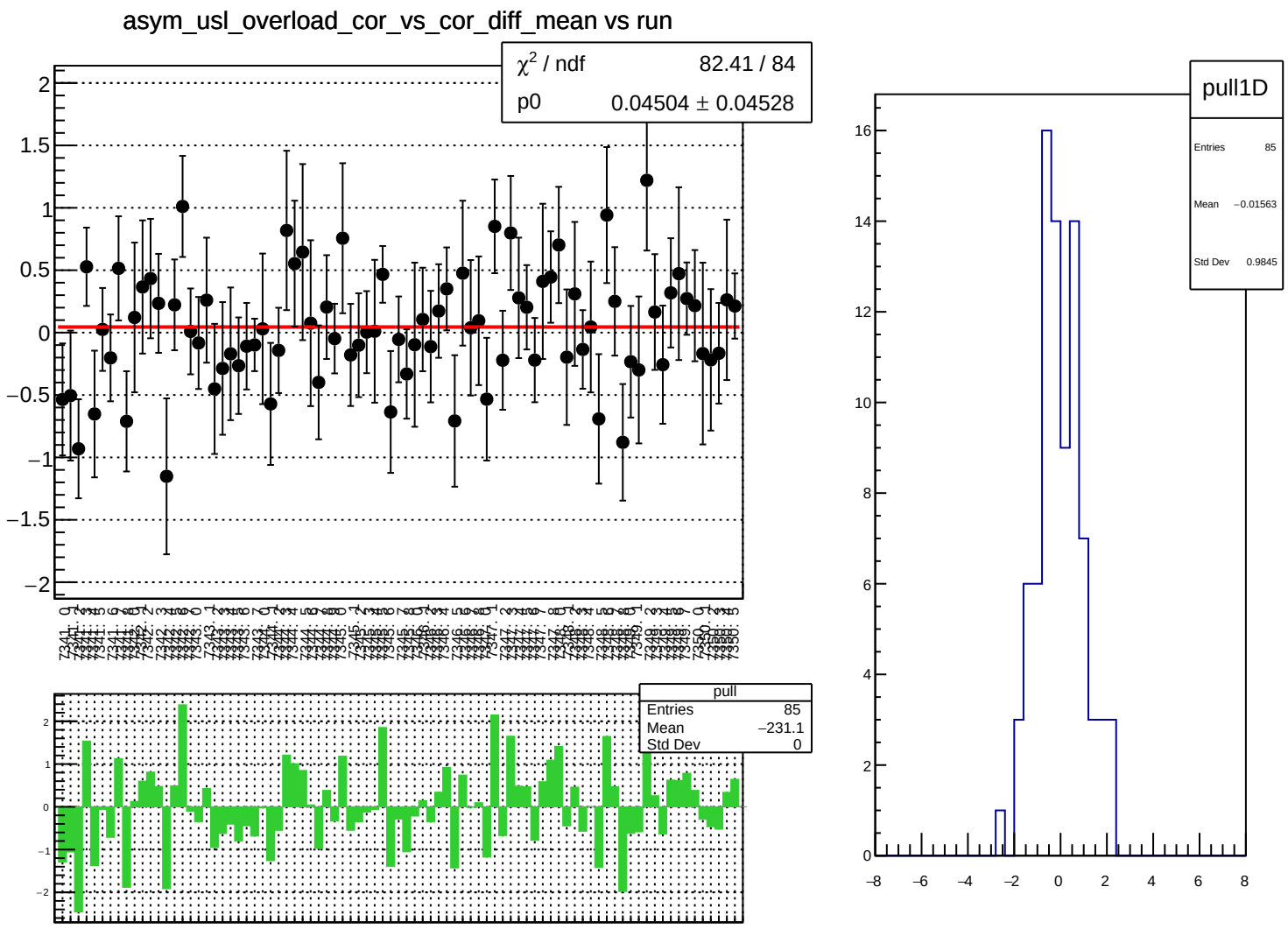

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.45 / 84
p0 −0.04104 ± 0.07203
pull
Entries 85
Mean −126.5
Std Dev 0

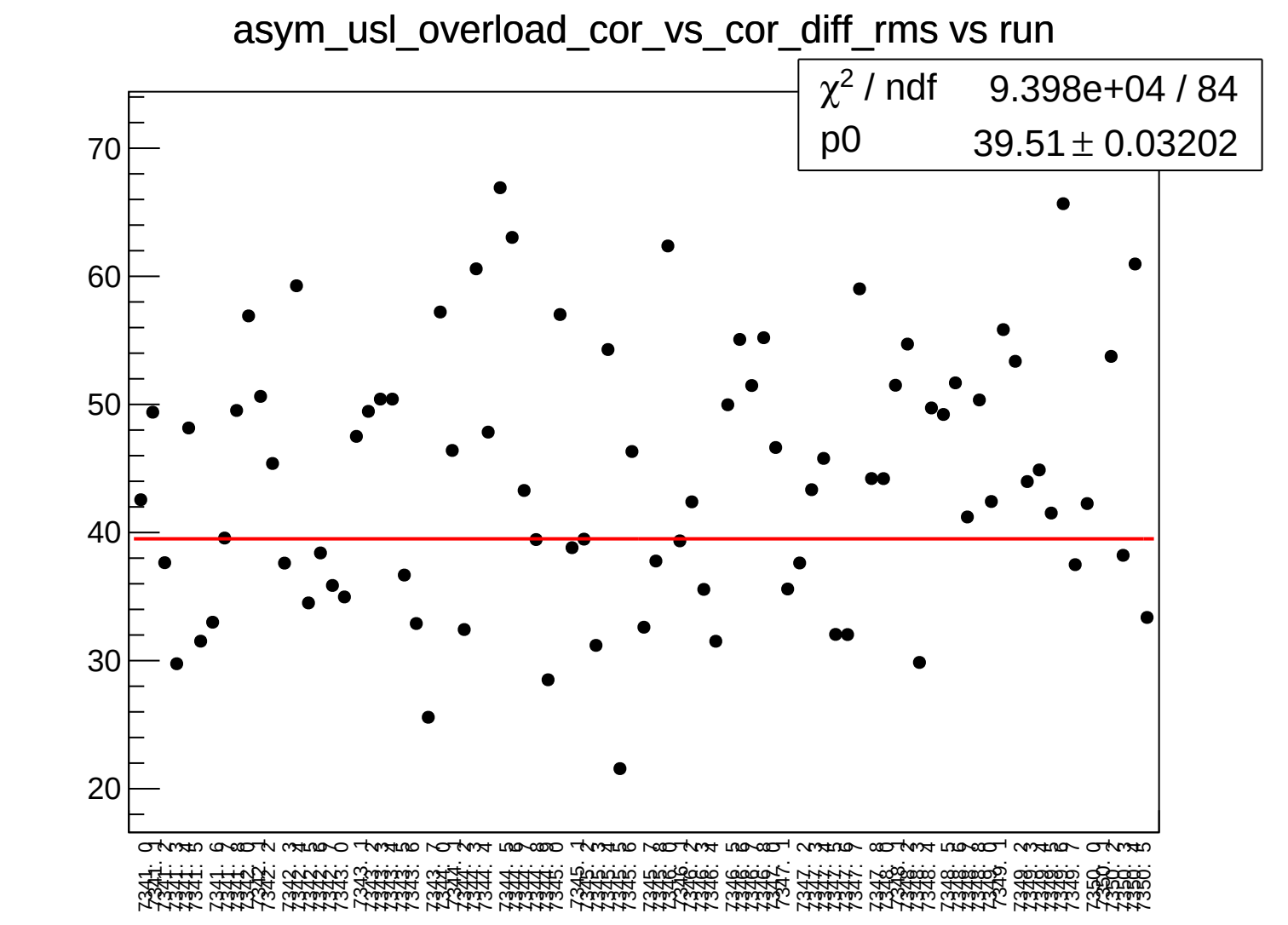

pull1D
Entries 85
Mean 0.02695
Std Dev 0.9964

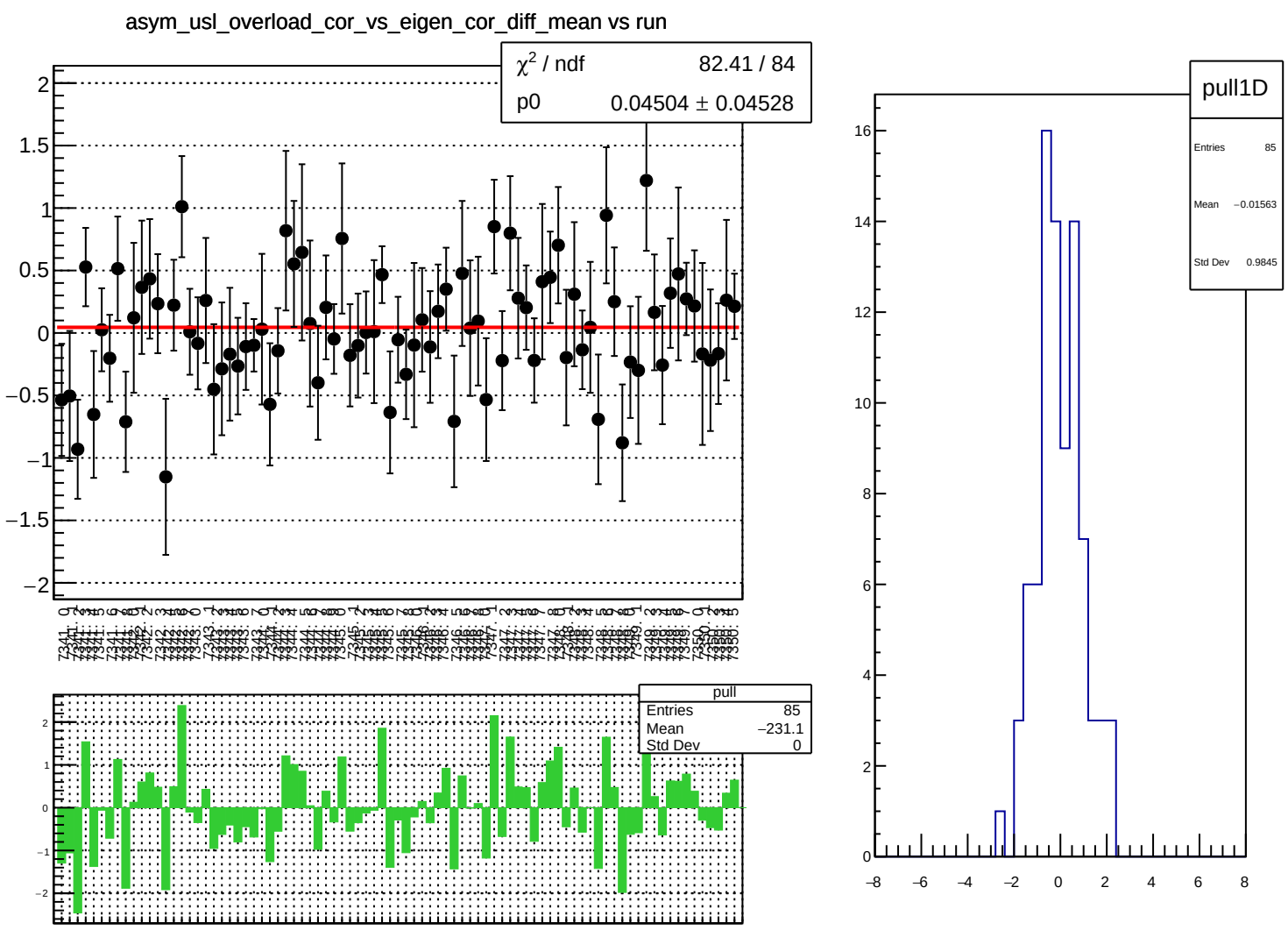

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.203e+05 / 84
p0 62.3 ± 0.05093
140
120
100
80
60
40
20

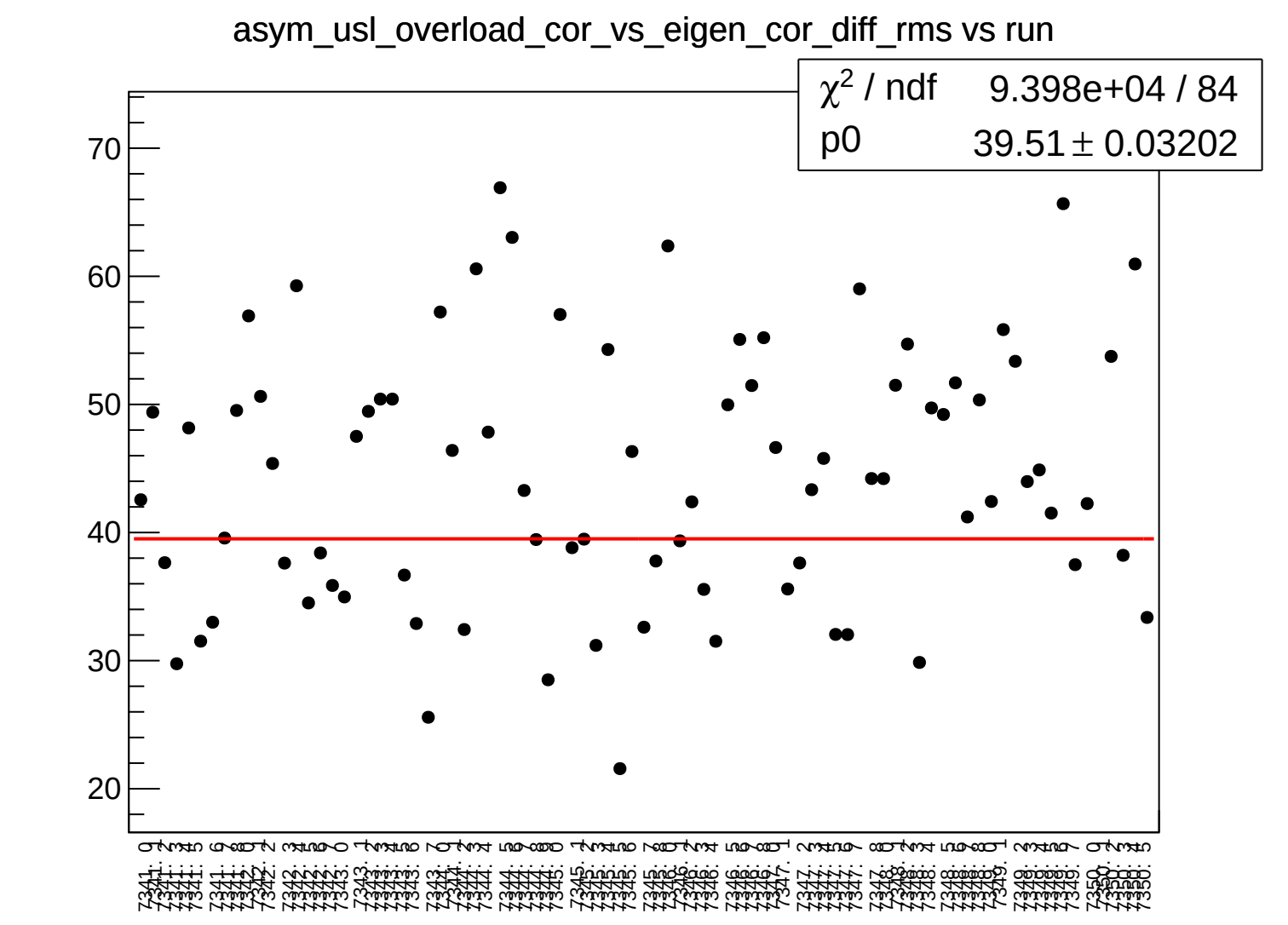

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.05 / 84
p0 3.908e−14 ± 2.727e−14
pull
Entries 85
Mean 125.4
Std Dev 0
pull1D
Entries 85
Mean −0.0345
Std Dev 0.92

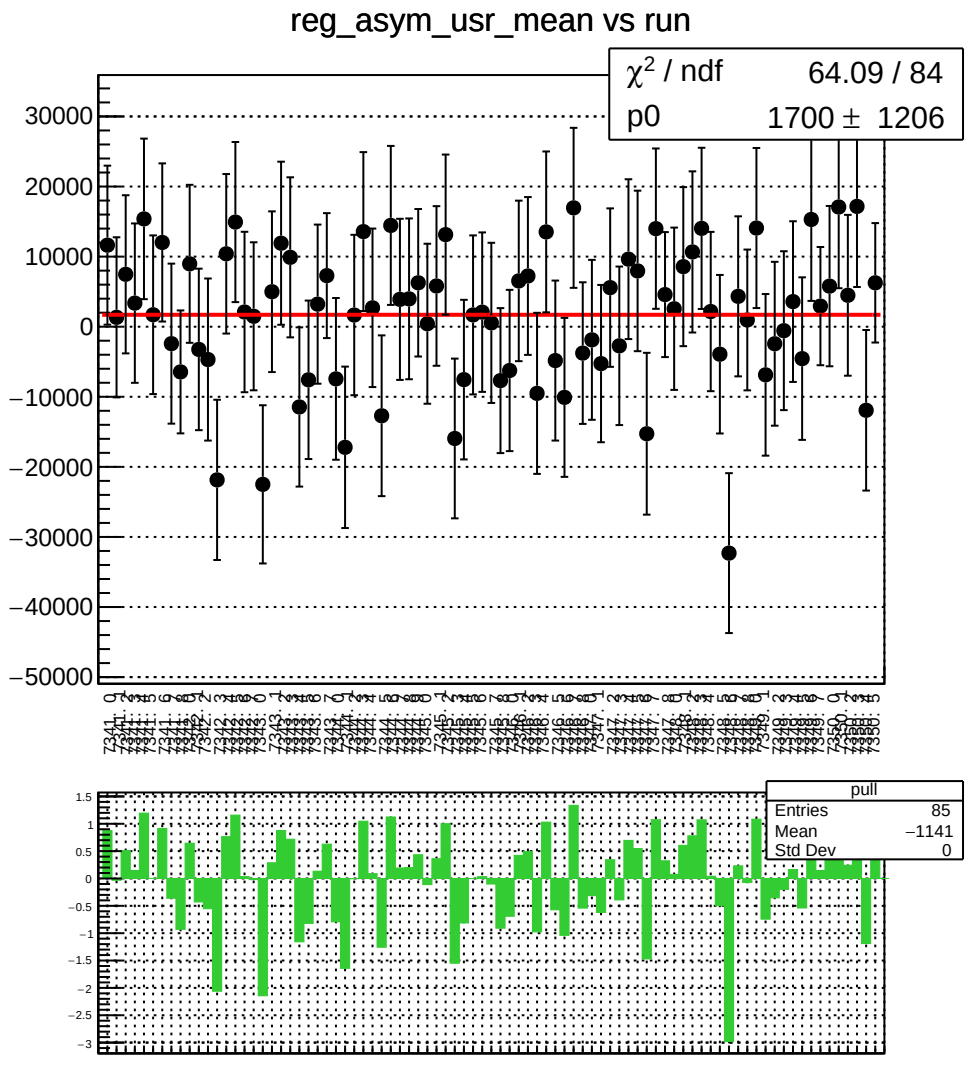

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.239e+05 / 84
p0 2.015e−11 ± 1.928e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

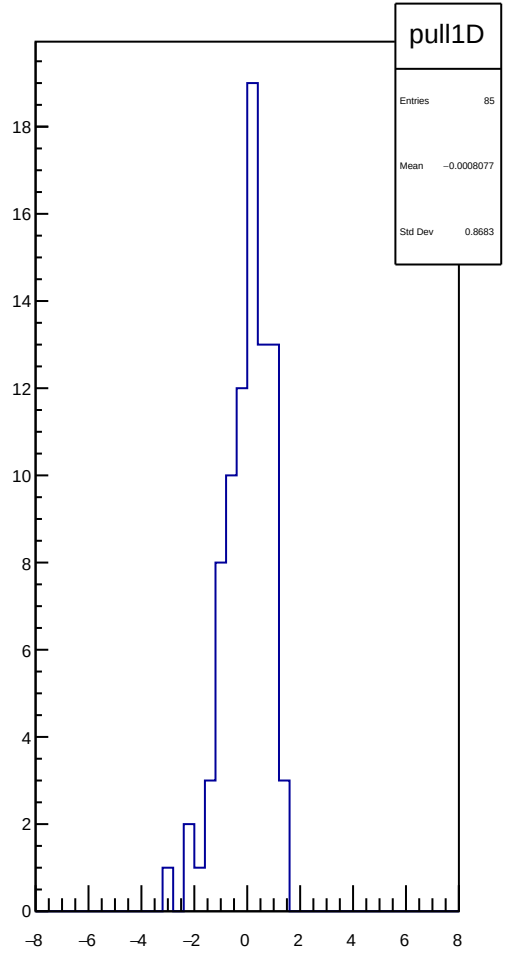

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 82.41 / 84
p0 0.04504 ± 0.04528
pull
Entries 85
Mean −231.1
Std Dev 0
pull1D
Entries 85
Mean −0.01563
Std Dev 0.9845

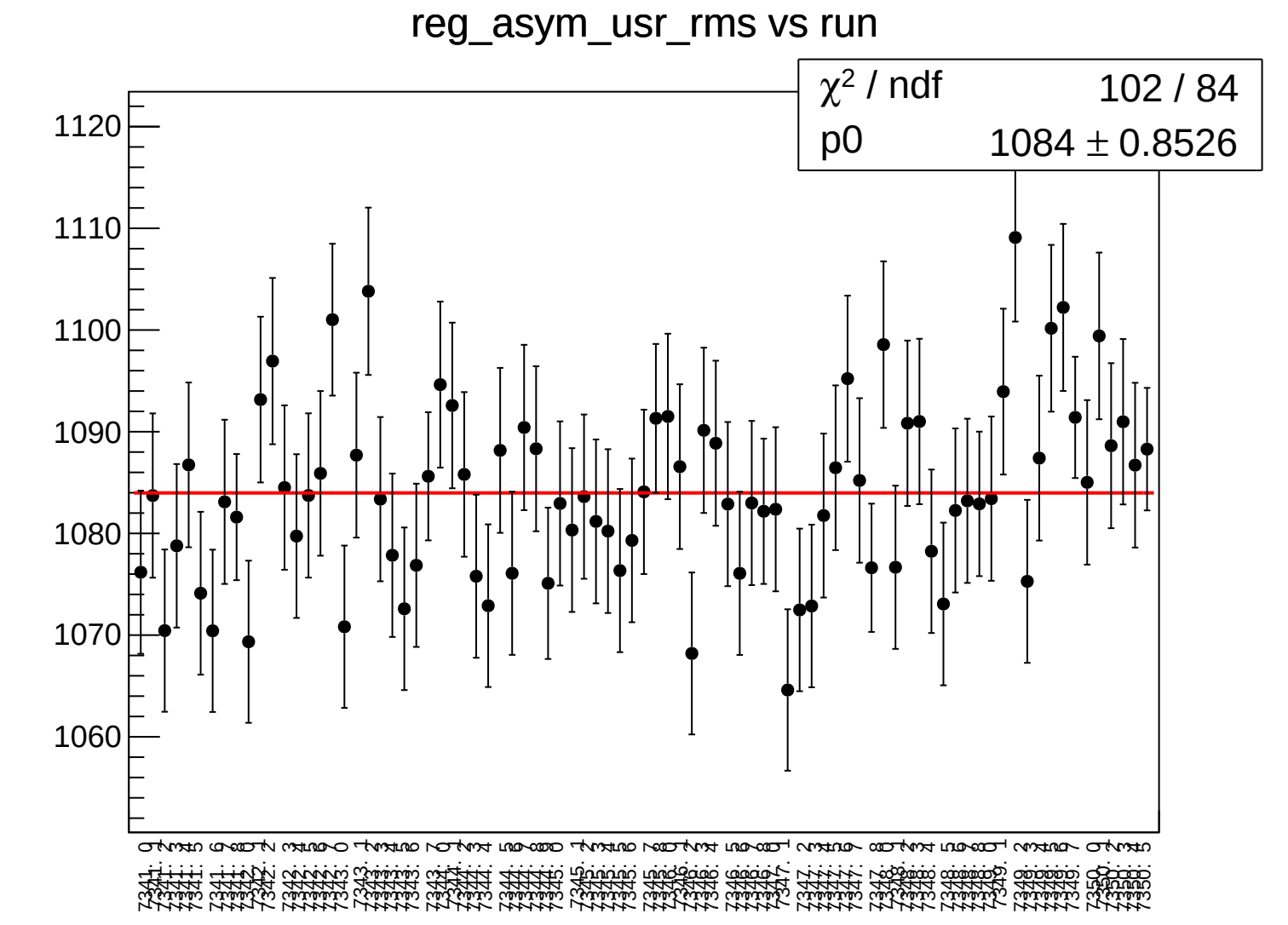

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.398e+04 / 84
p0 39.51 ± 0.03202
70
60
50
40
30
20

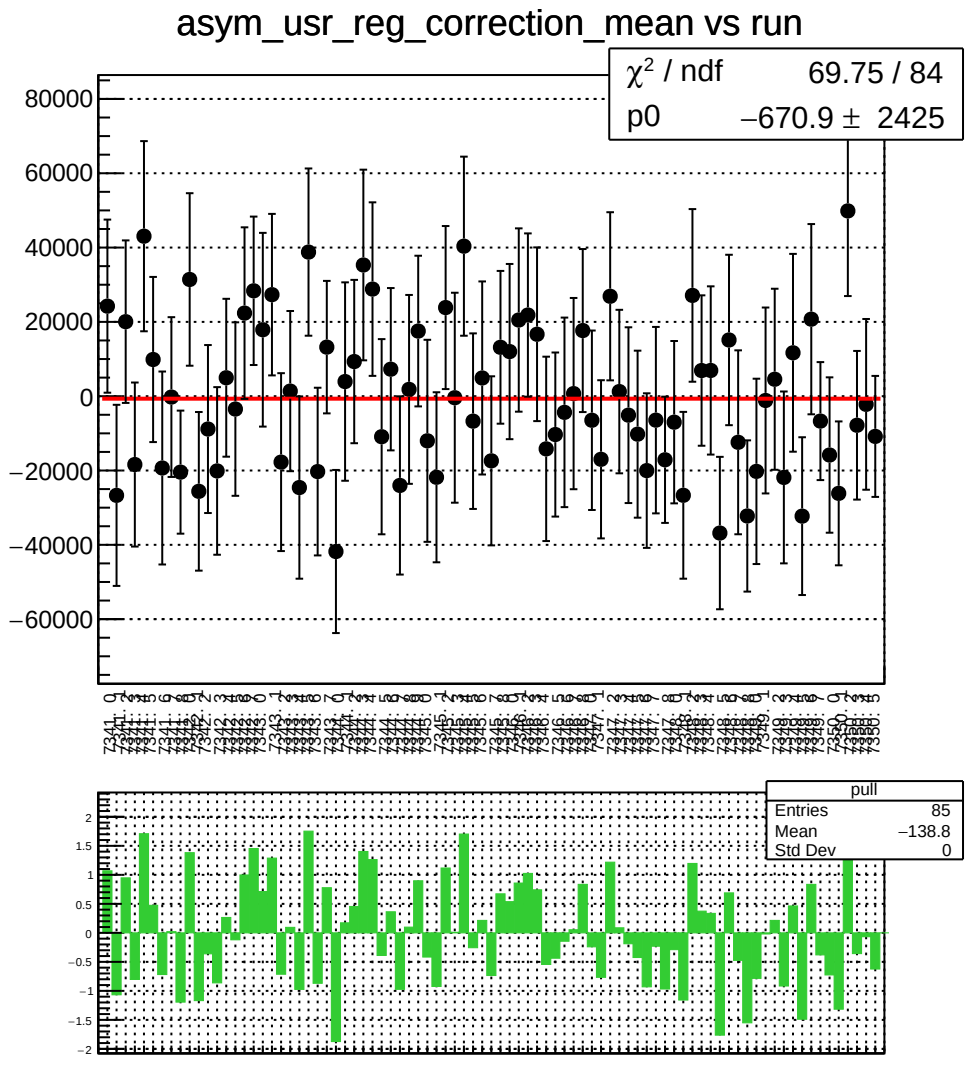

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.41 / 84
p0 0.04504 ± 0.04528
pull
Entries 85
Mean −231.1
Std Dev 0
pull1D
Entries 85
Mean −0.01563
Std Dev 0.9845

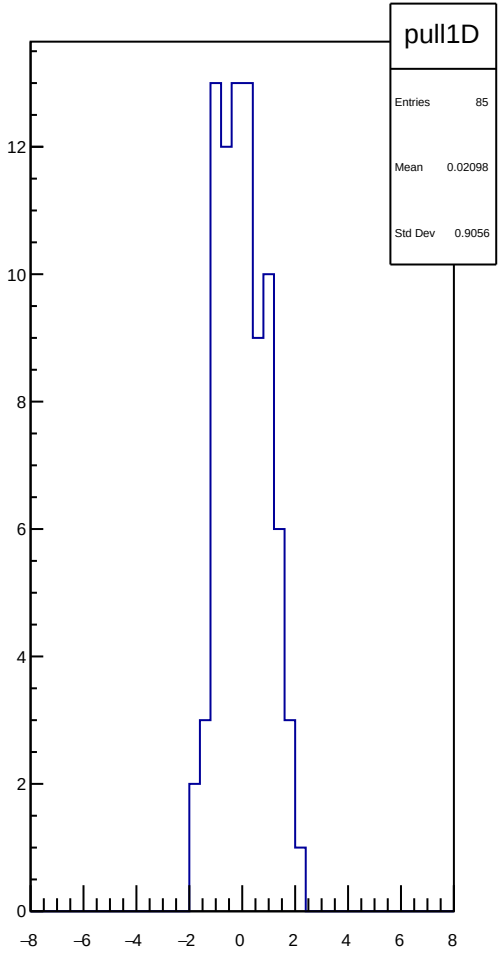

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.398e+04 / 84
p0 39.51 ± 0.03202
70
60
50
40
30
20

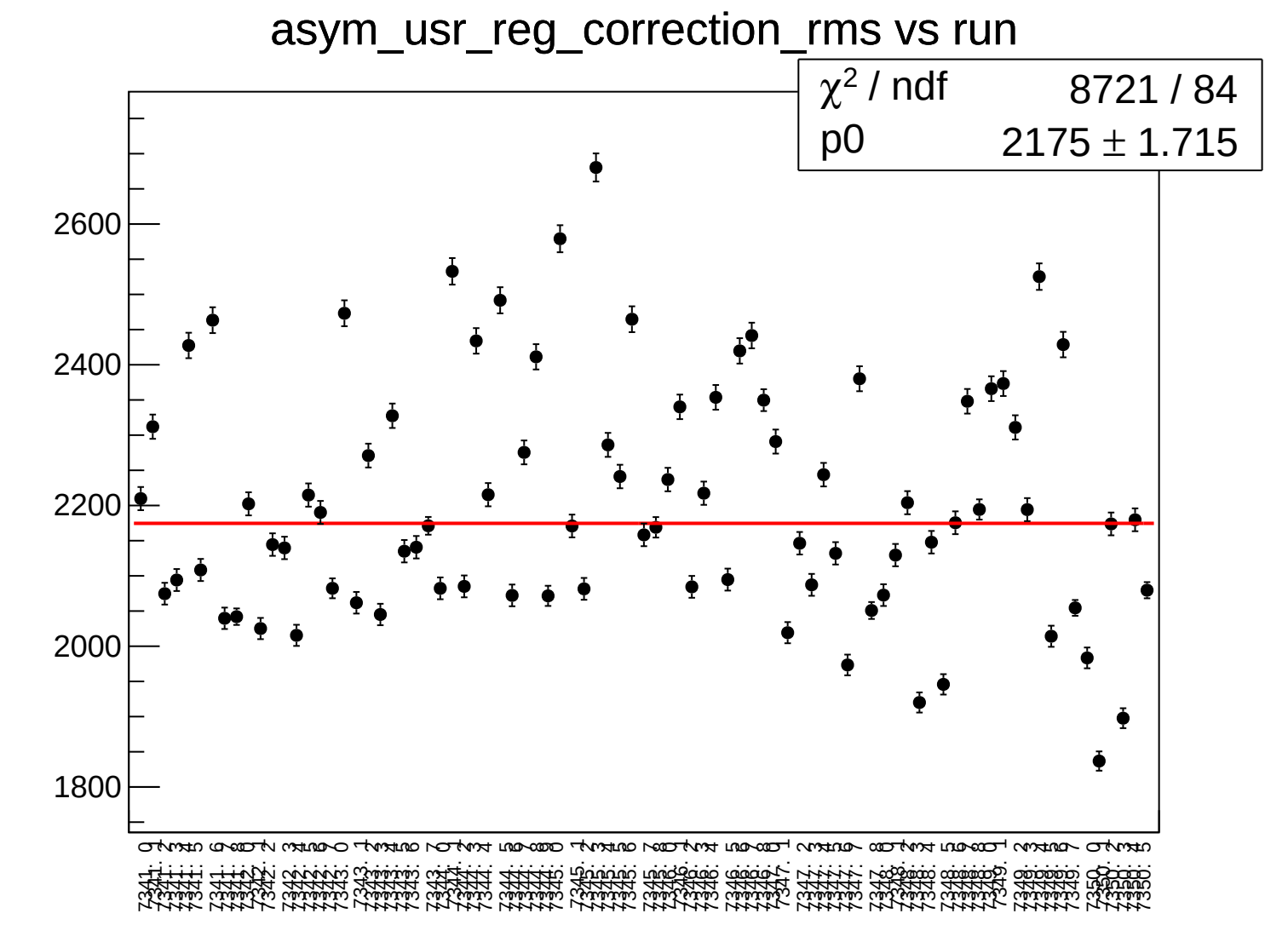

reg_asym_usr_mean vs run
χ² / ndf 64.09 / 84
p0 1700 ± 1206
pull
Entries 85
Mean −1141
Std Dev 0

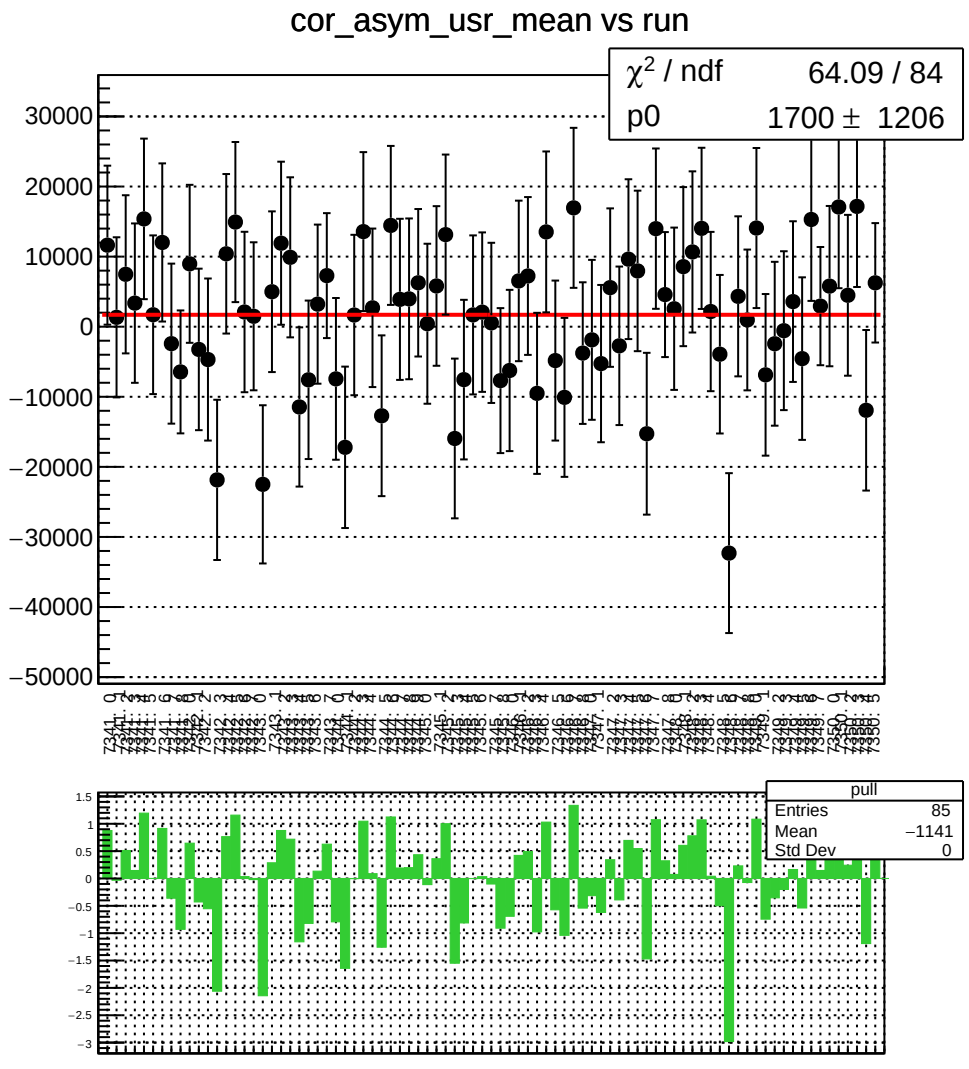

pull1D
Entries 85
Mean −0.0008077
Std Dev 0.8683

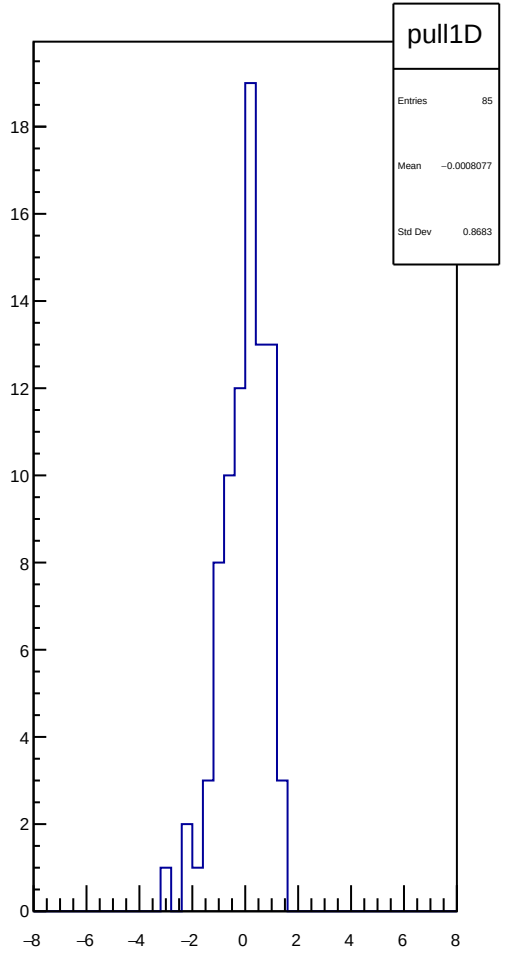

reg_asym_usr_rms vs run
χ² / ndf 102 / 84
p0 1084 ± 0.8526
1120
1110
1100
1090
1080
1070
1060

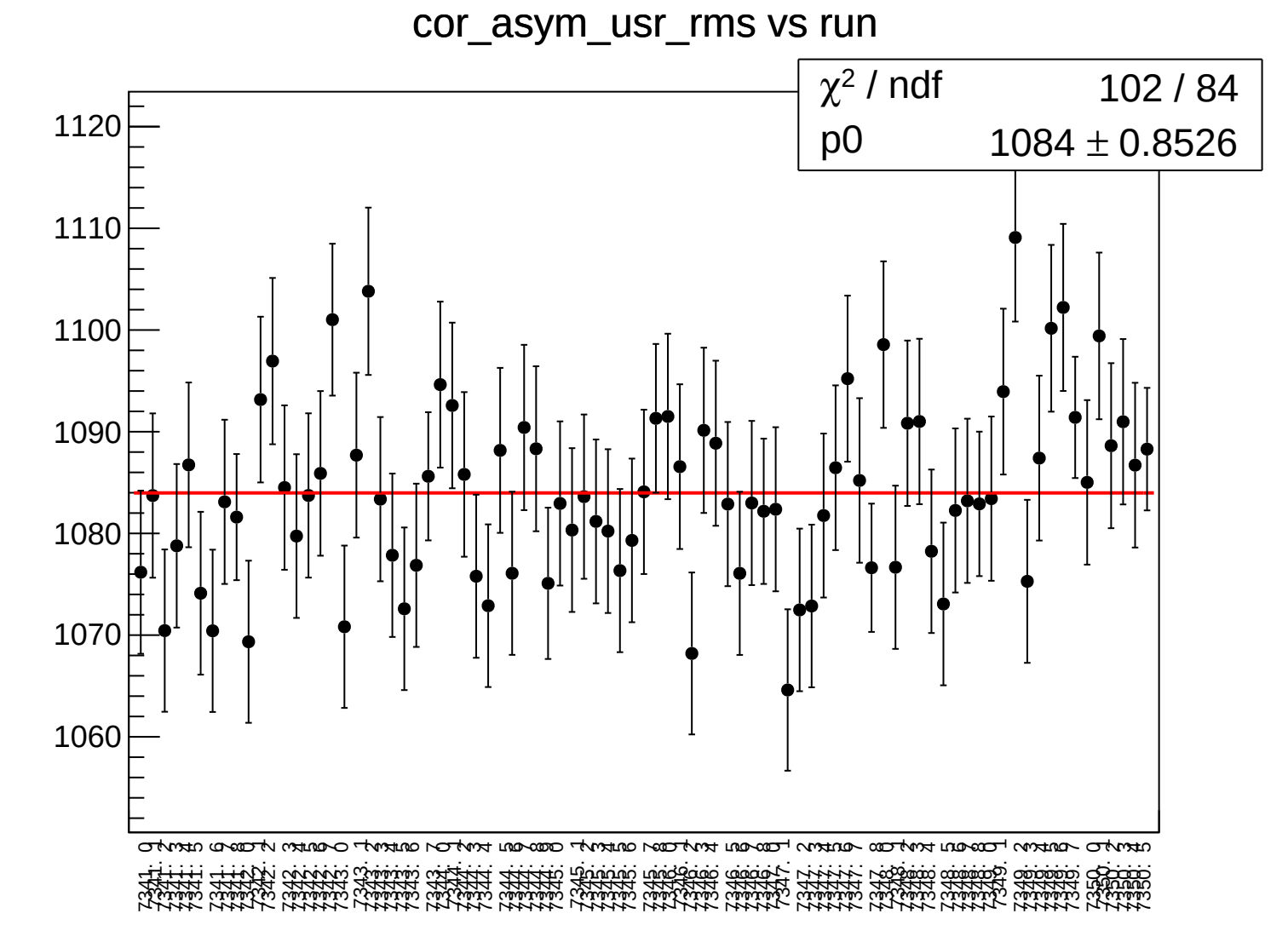

asym_usr_reg_correction_mean vs run
χ² / ndf 69.75 / 84
p0 −670.9 ± 2425
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −138.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

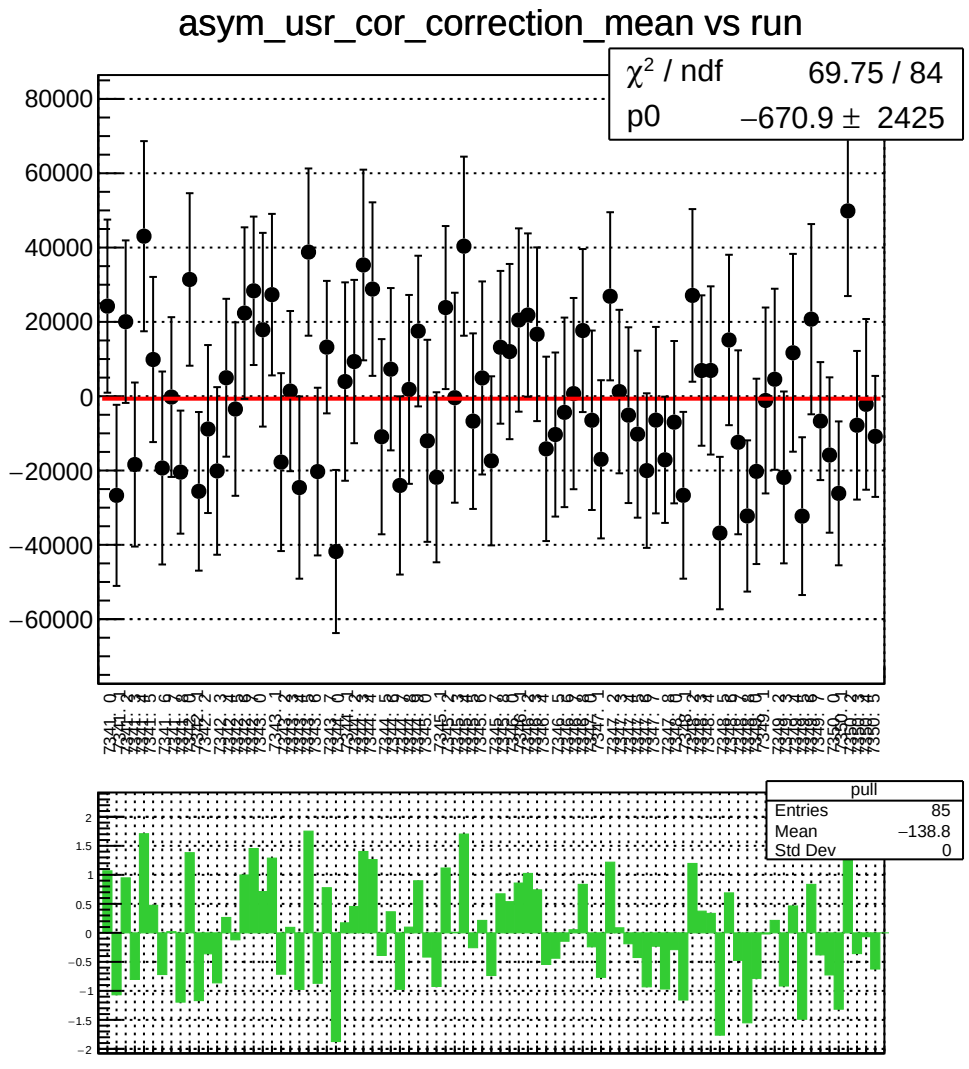

pull1D
Entries 85
Mean 0.02098
Std Dev 0.9056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

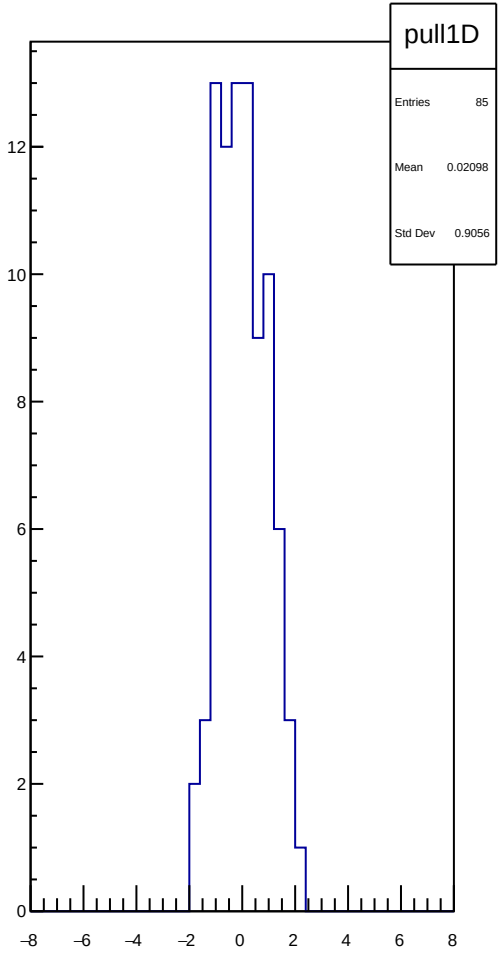

asym_usr_reg_correction_rms vs run
χ² / ndf 8721 / 84
p0 2175 ± 1.715
2600
2400
2200
2000
1800

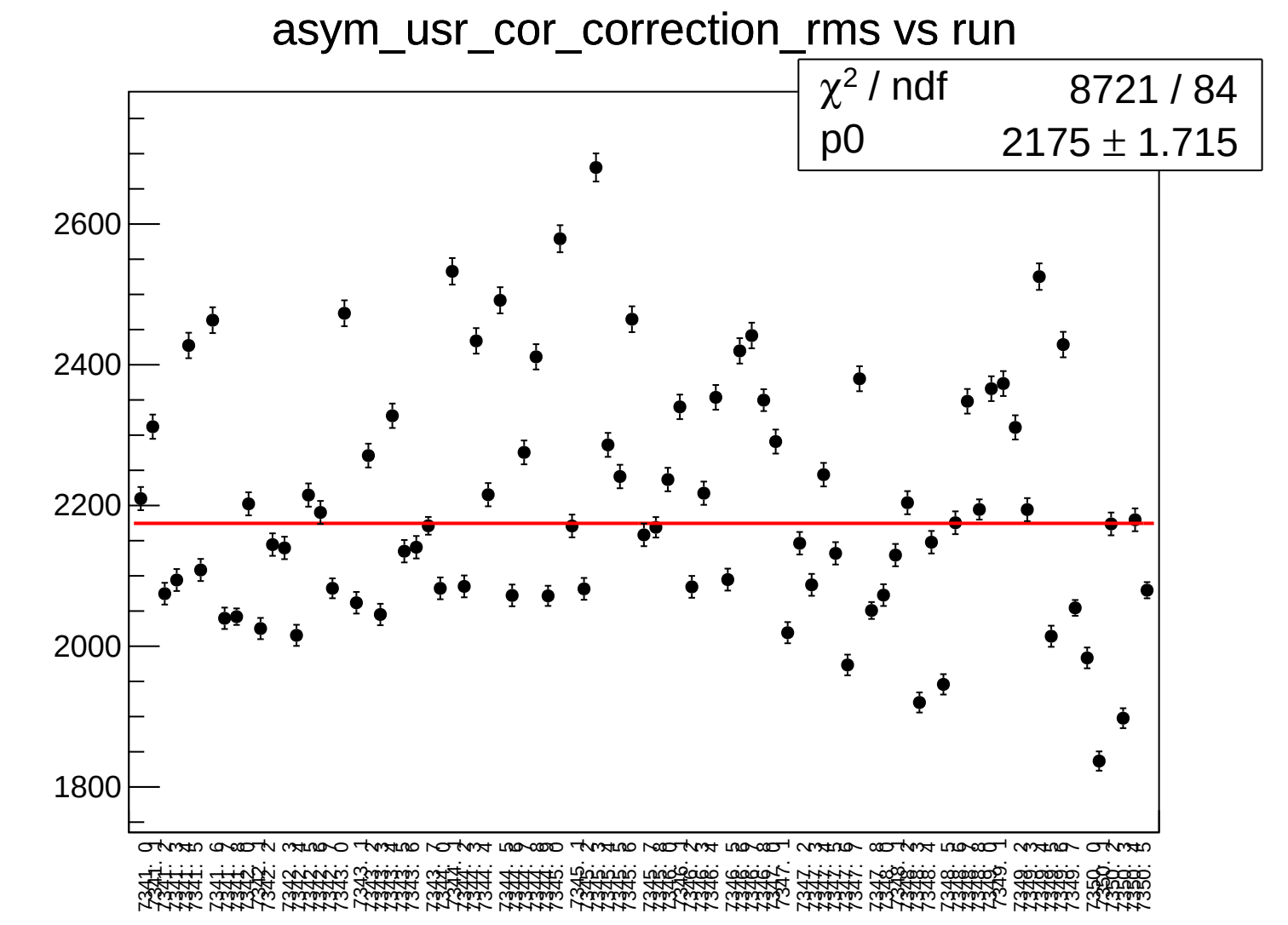

cor_asym_usr_mean vs run
χ² / ndf 64.09 / 84
p0 1700 ± 1206
pull
Entries 85
Mean −1141
Std Dev 0

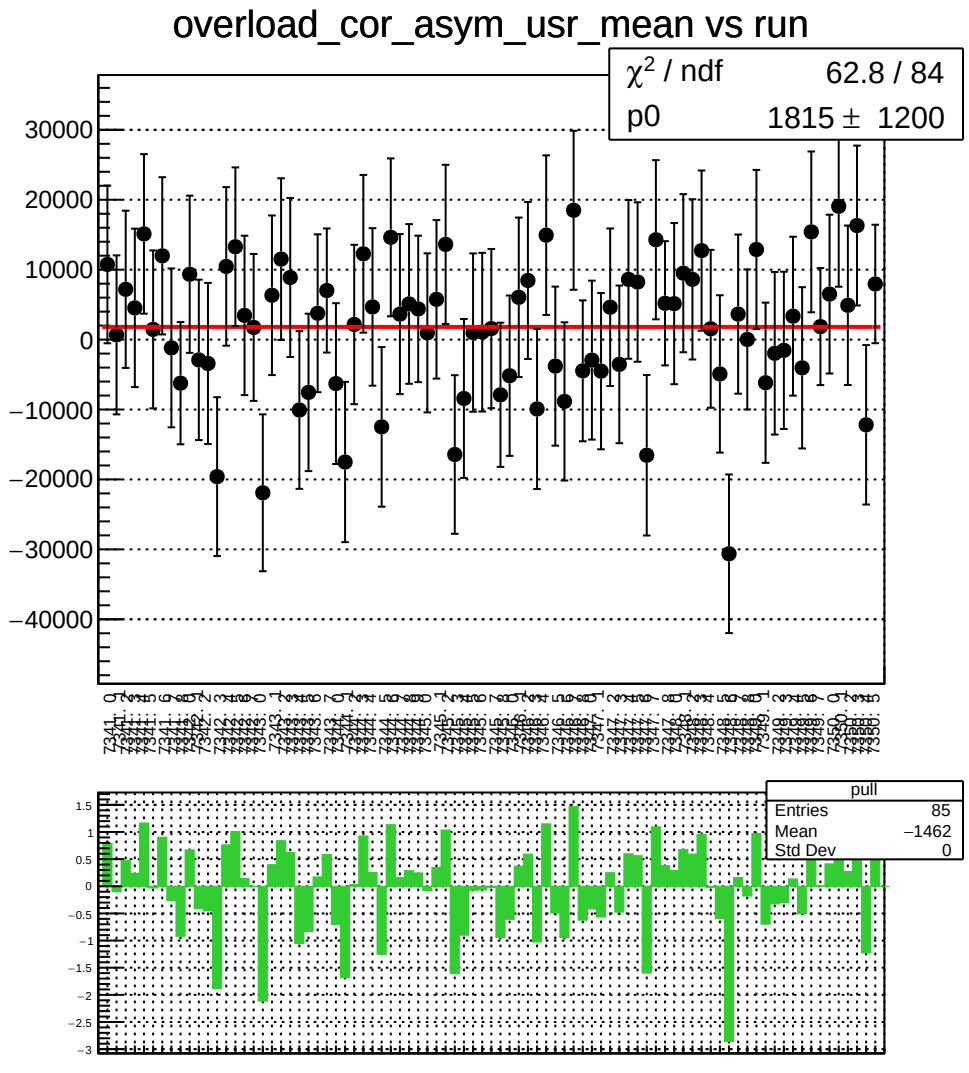

pull1D
Entries 85
Mean −0.0008077
Std Dev 0.8683

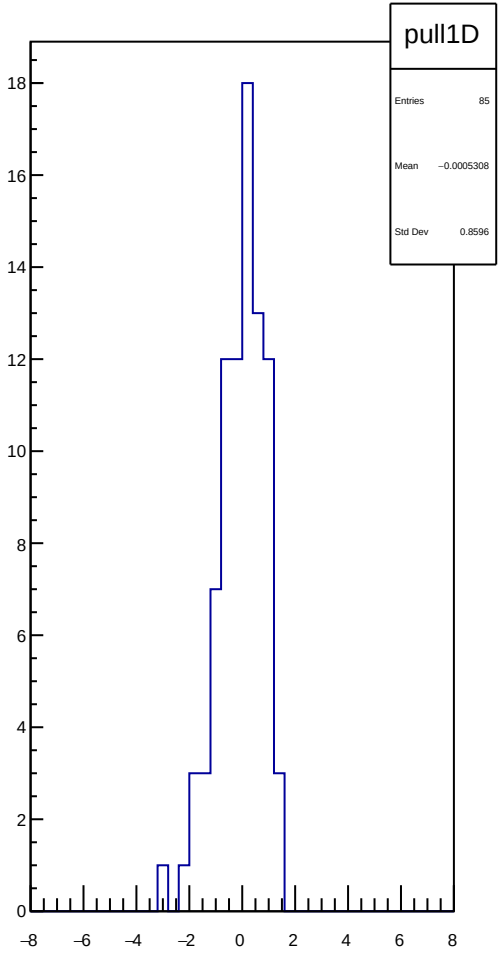

cor_asym_usr_rms vs run
χ² / ndf 102 / 84
p0 1084 ± 0.8526
1120
1110
1100
1090
1080
1070
1060

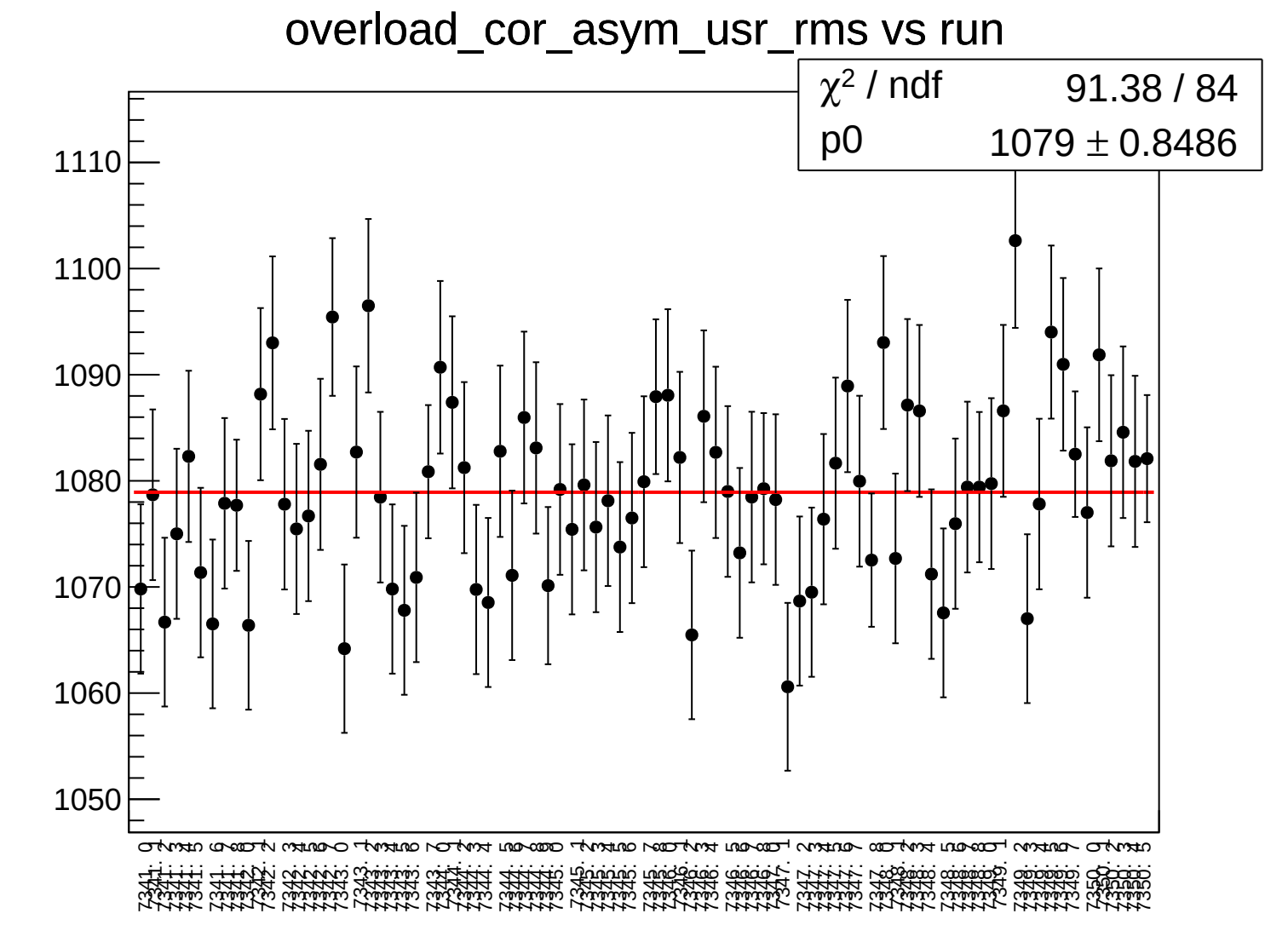

asym_usr_cor_correction_mean vs run
χ² / ndf 69.75 / 84
p0 −670.9 ± 2425
pull
Entries 85
Mean −138.8
Std Dev 0

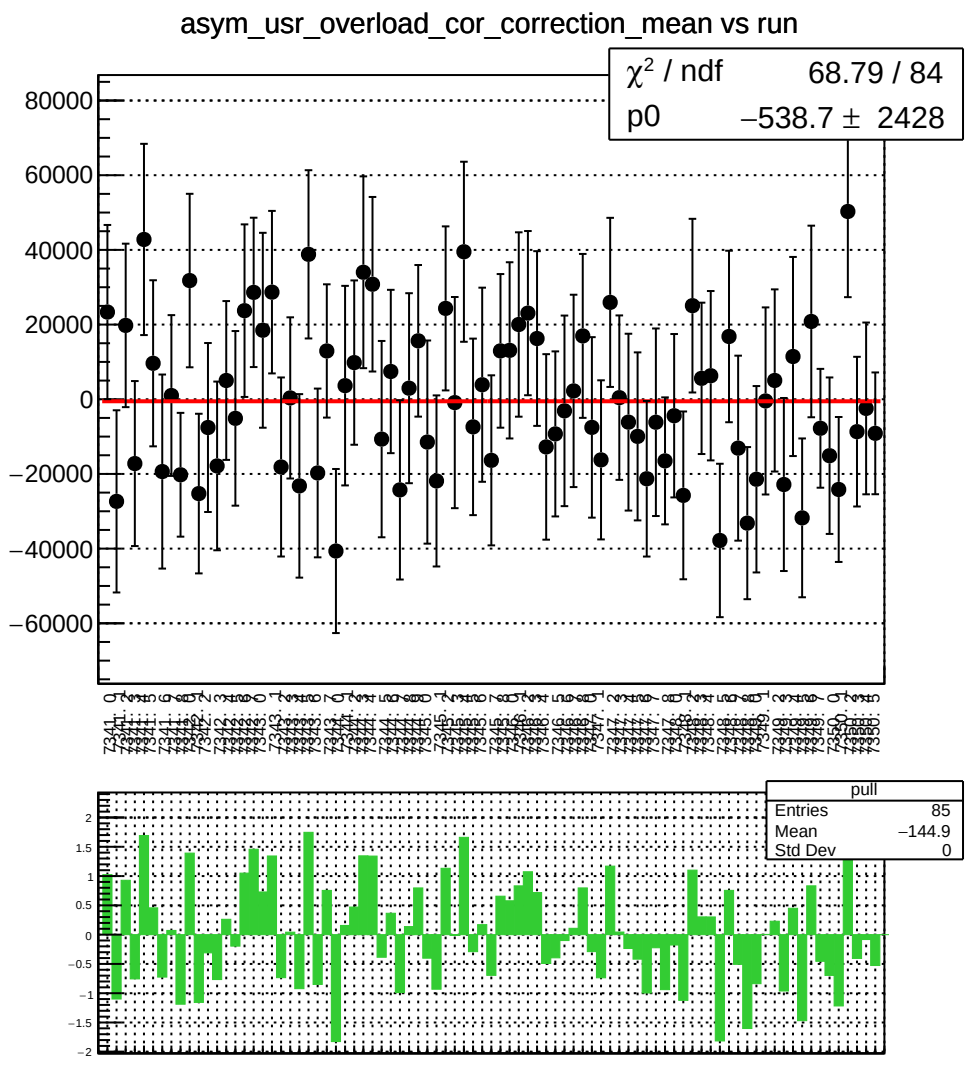

pull1D
Entries 85
Mean 0.02098
Std Dev 0.9056

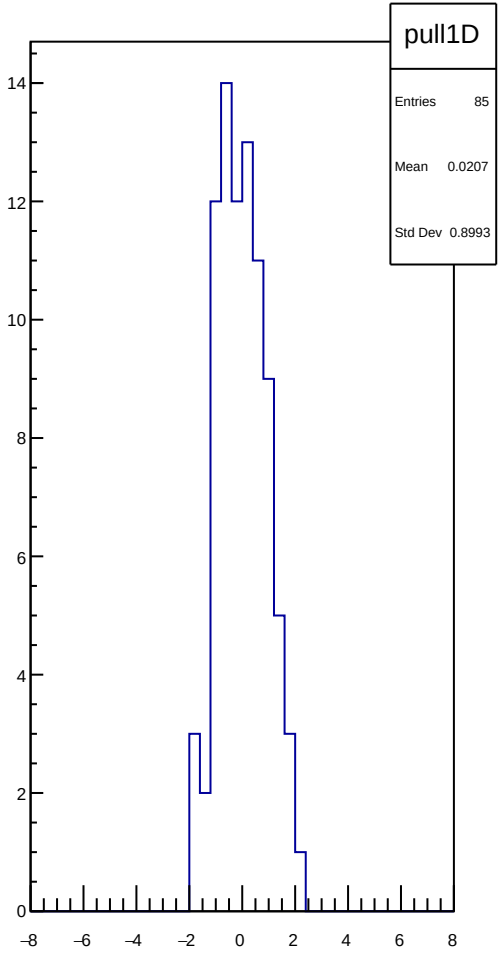

asym_usr_cor_correction_rms vs run
χ^2 / ndf 8721 / 84
p0 2175 ± 1.715
2600
2400
2200
2000
1800

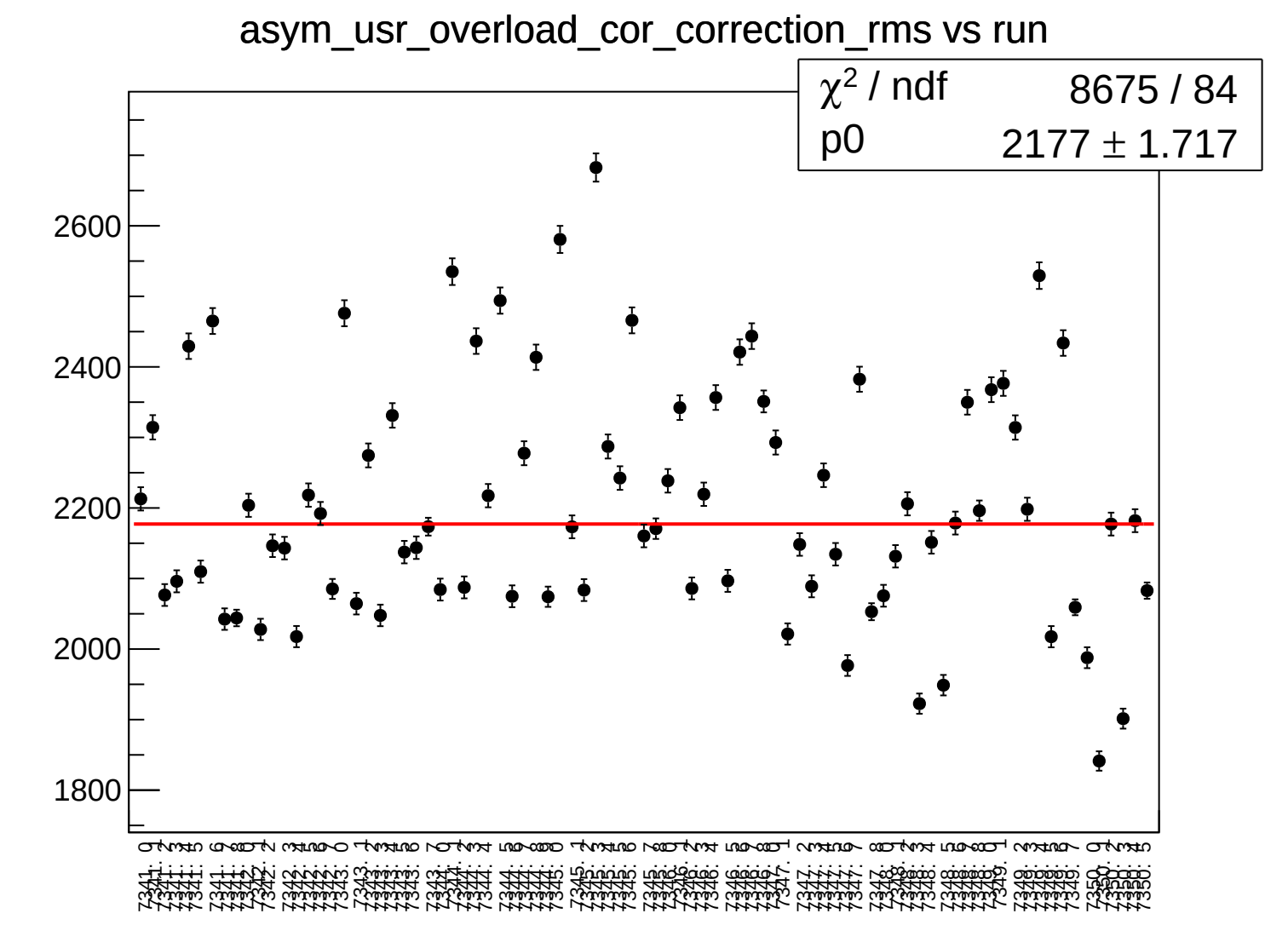

overload_cor_asym_usr_mean vs run
χ² / ndf 62.8 / 84
p0 1815 ± 1200
pull
Entries 85
Mean −1462
Std Dev 0

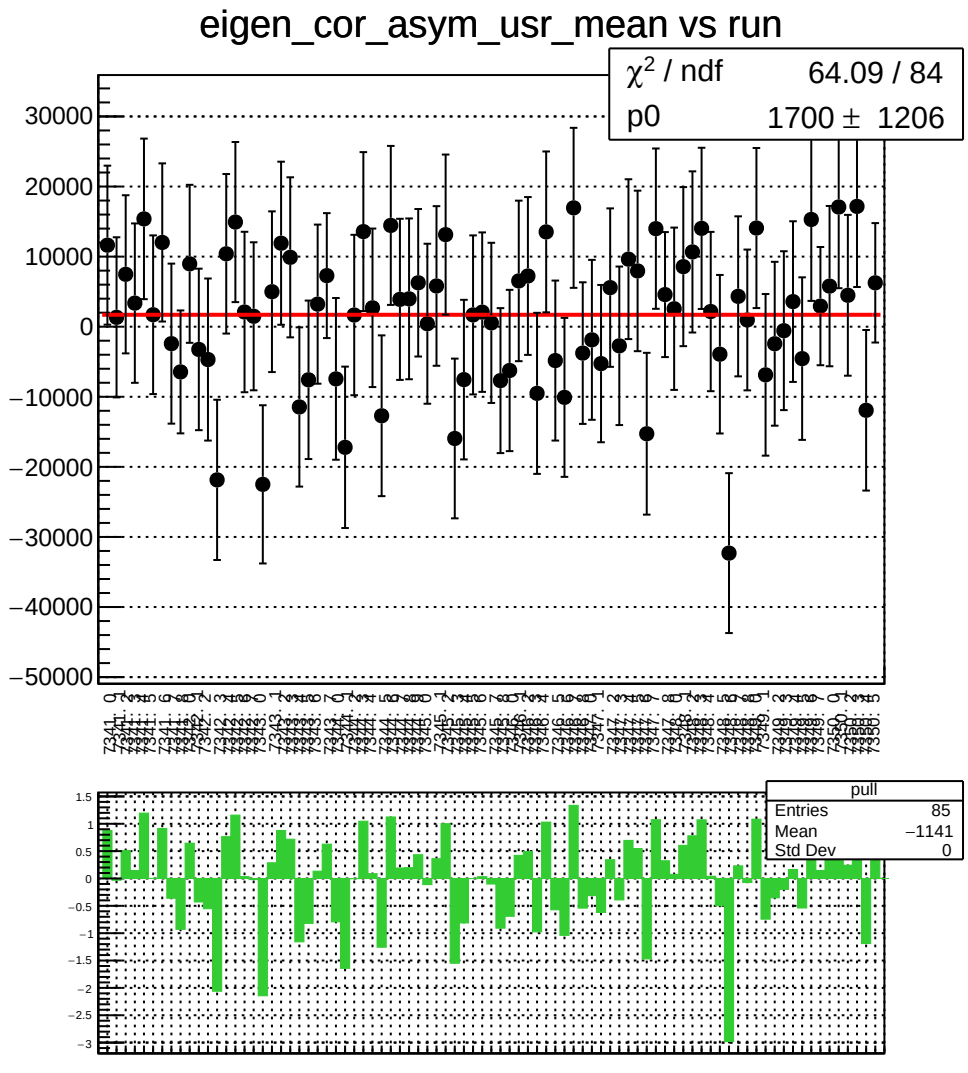

pull1D
Entries 85
Mean −0.0005308
Std Dev 0.8596

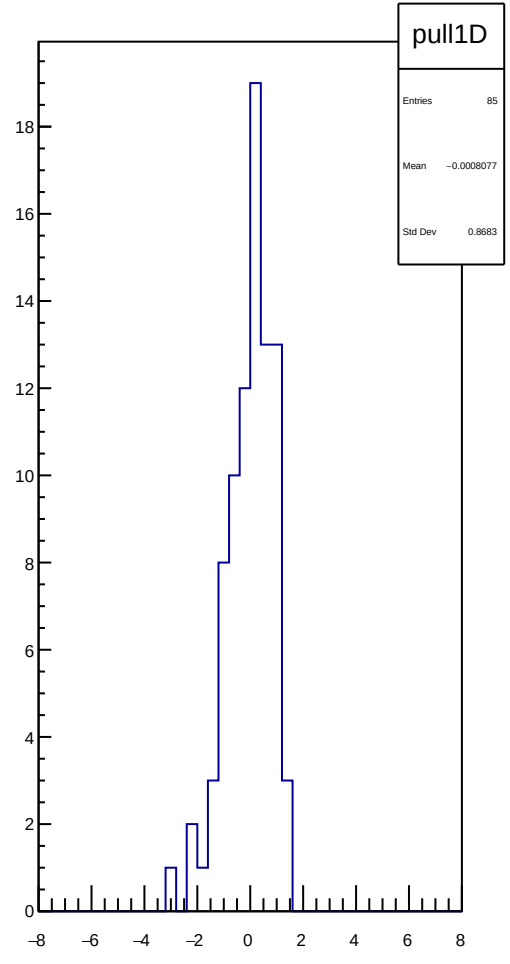

overload_cor_asym_usr_rms vs run
χ² / ndf 91.38 / 84
p0 1079 ± 0.8486
1110
1100
1090
1080
1070
1060
1050

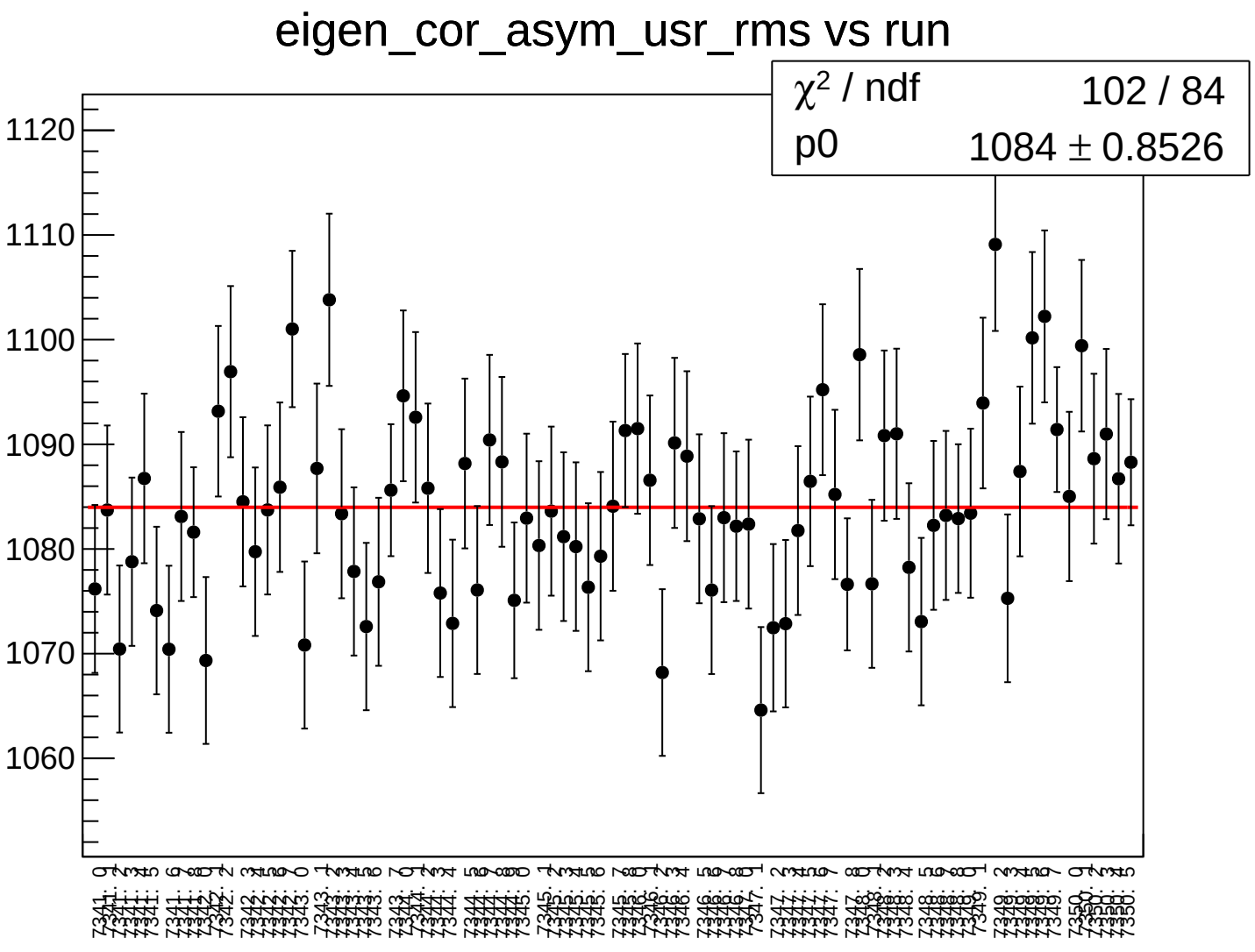

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 68.79 / 84
p0 −538.7 ± 2428
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −144.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

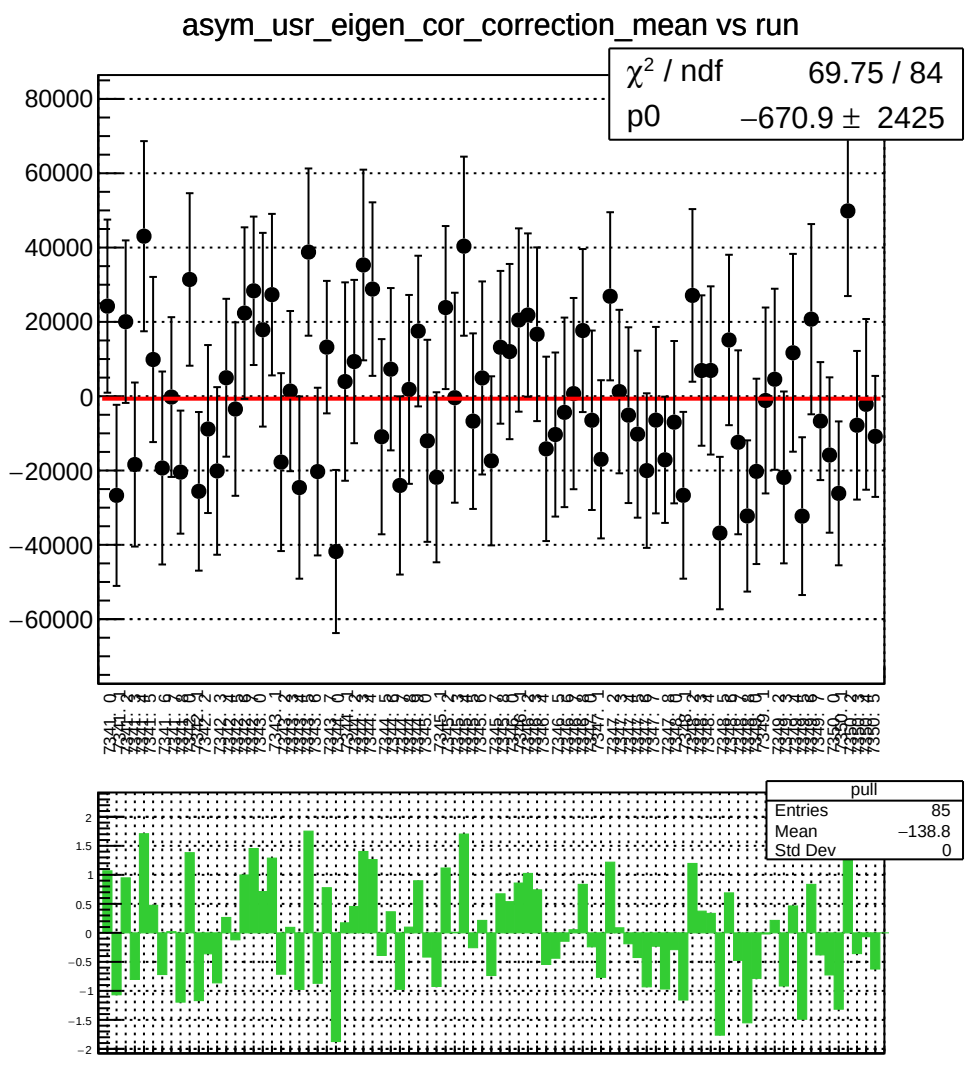

pull1D
Entries 85
Mean 0.0207
Std Dev 0.8993
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

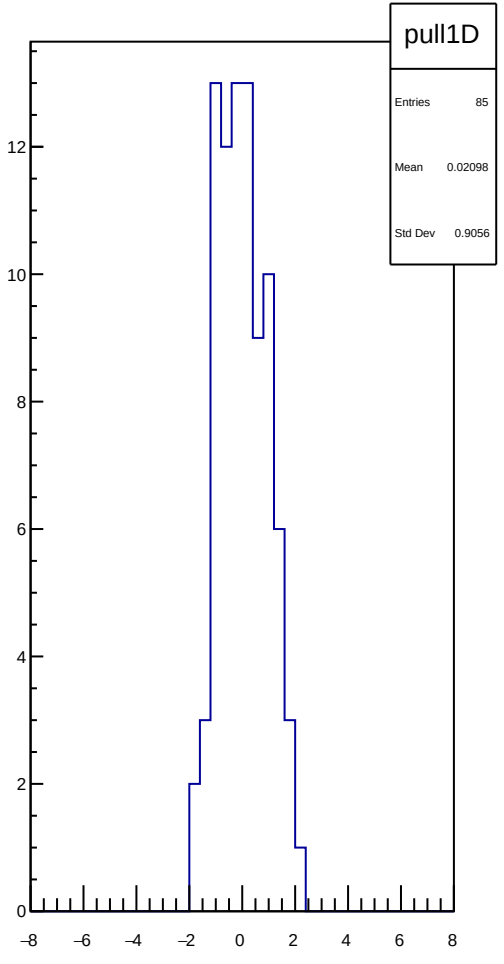

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 8675 / 84
p0 2177 ± 1.717
2600
2400
2200
2000
1800

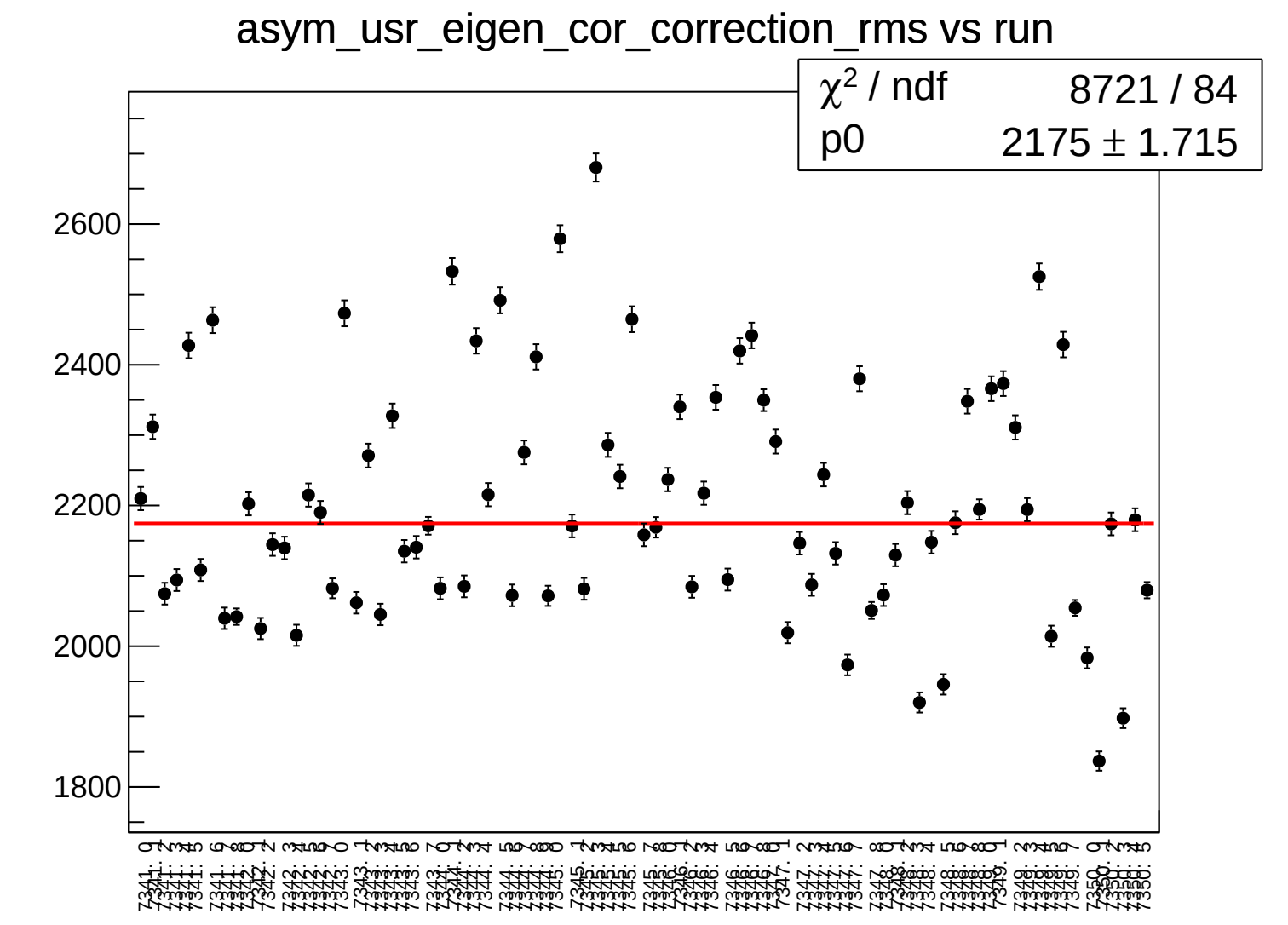

eigen_cor_asym_usr_mean vs run
χ² / ndf 64.09 / 84
p0 1700 ± 1206
pull
Entries 85
Mean −1141
Std Dev 0

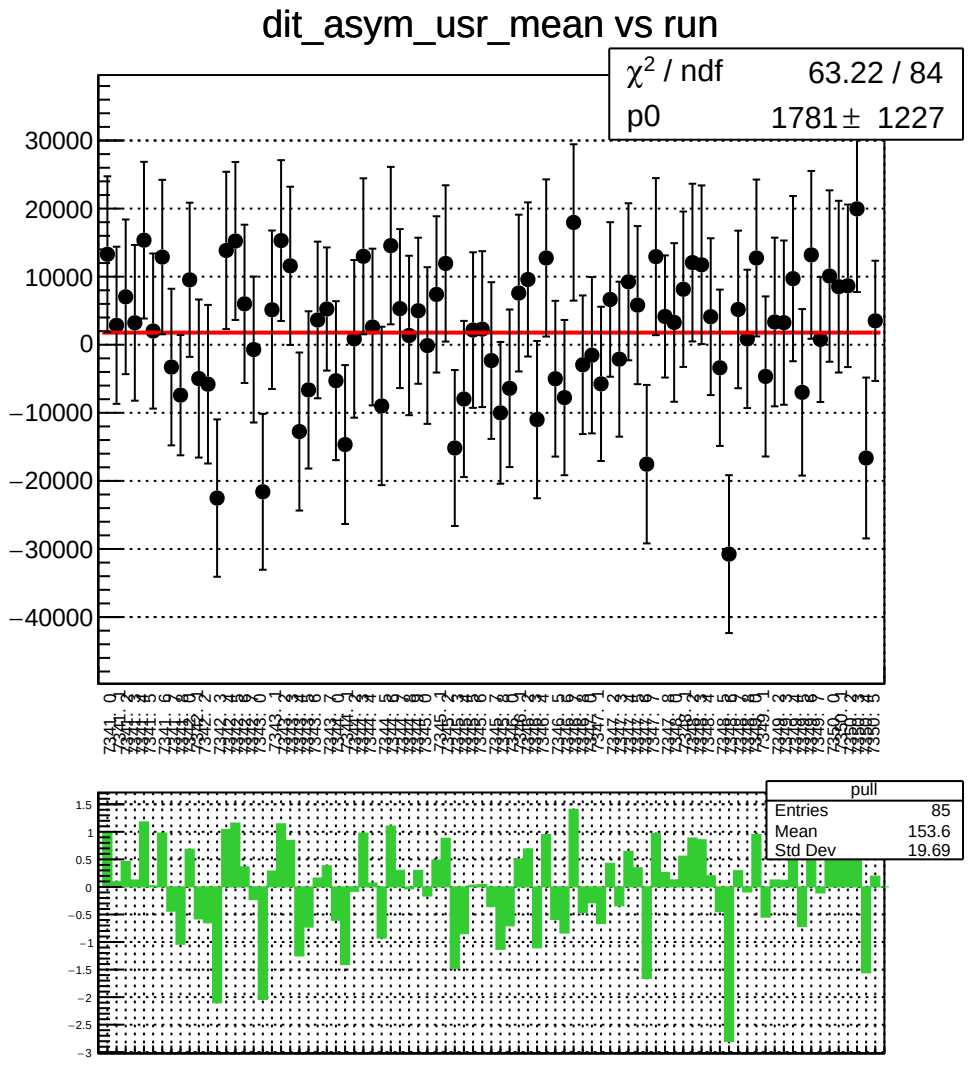

pull1D
Entries 85
Mean −0.0008077
Std Dev 0.8683

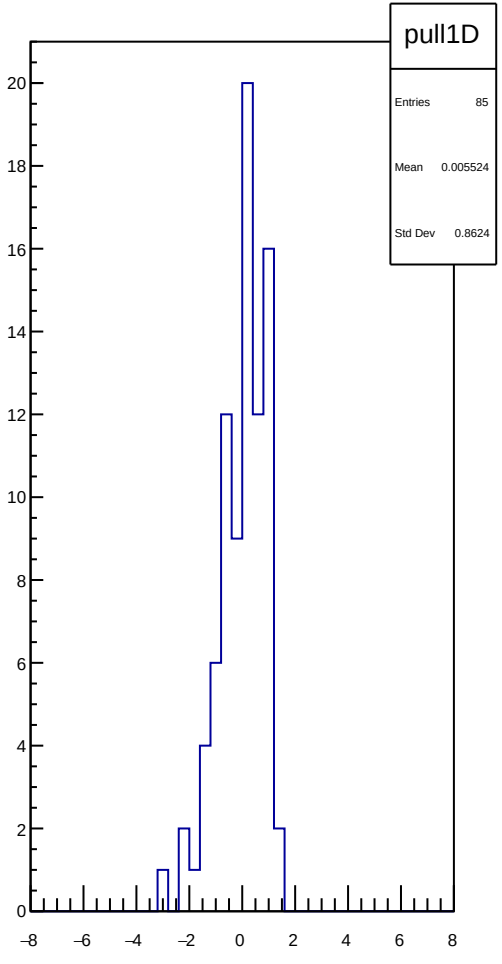

eigen_cor_asym_usr_rms vs run
χ² / ndf 102 / 84
p0 1084 ± 0.8526
1120
1110
1100
1090
1080
1070
1060

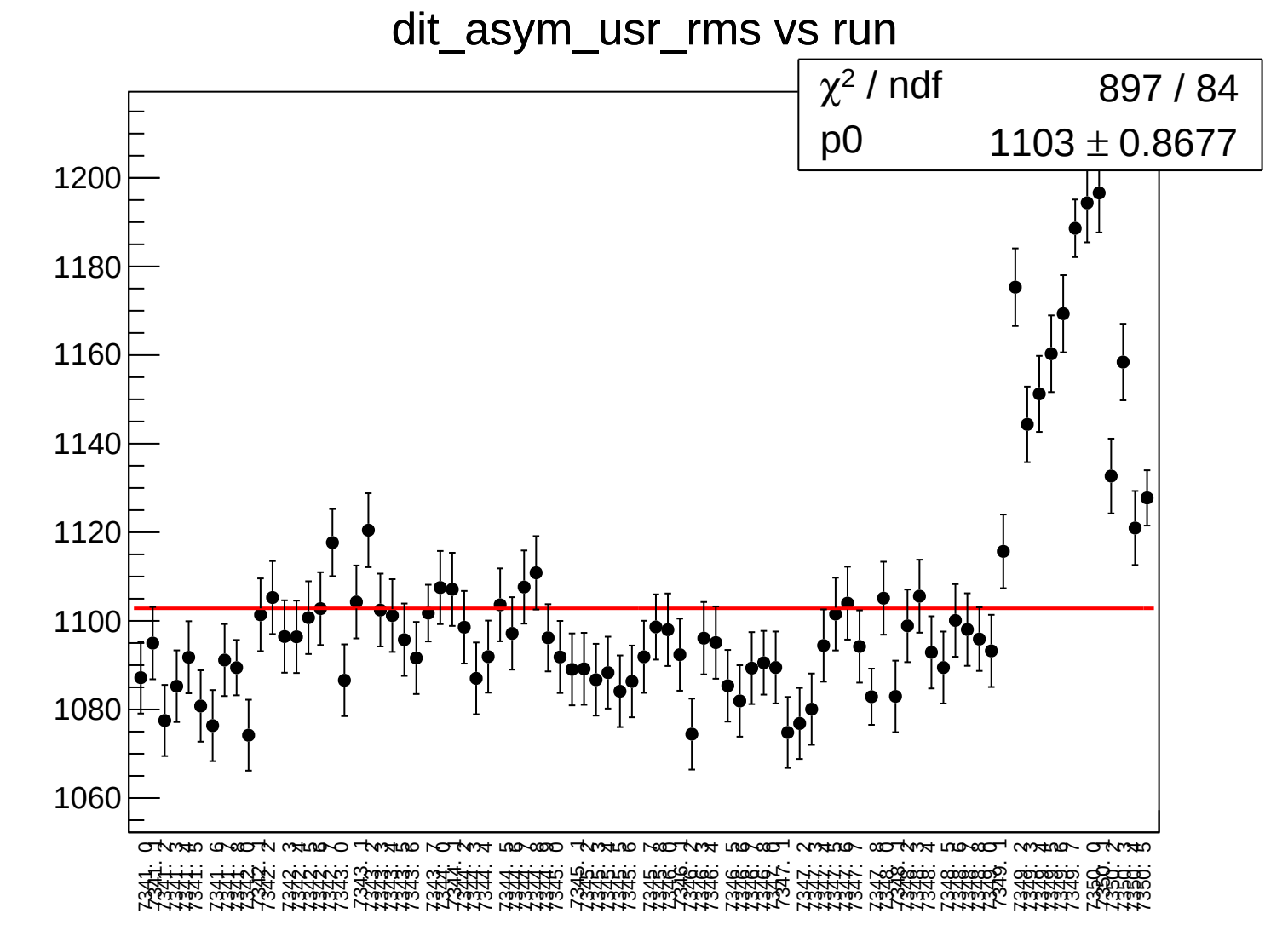

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 69.75 / 84
p0 −670.9 ± 2425
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −138.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

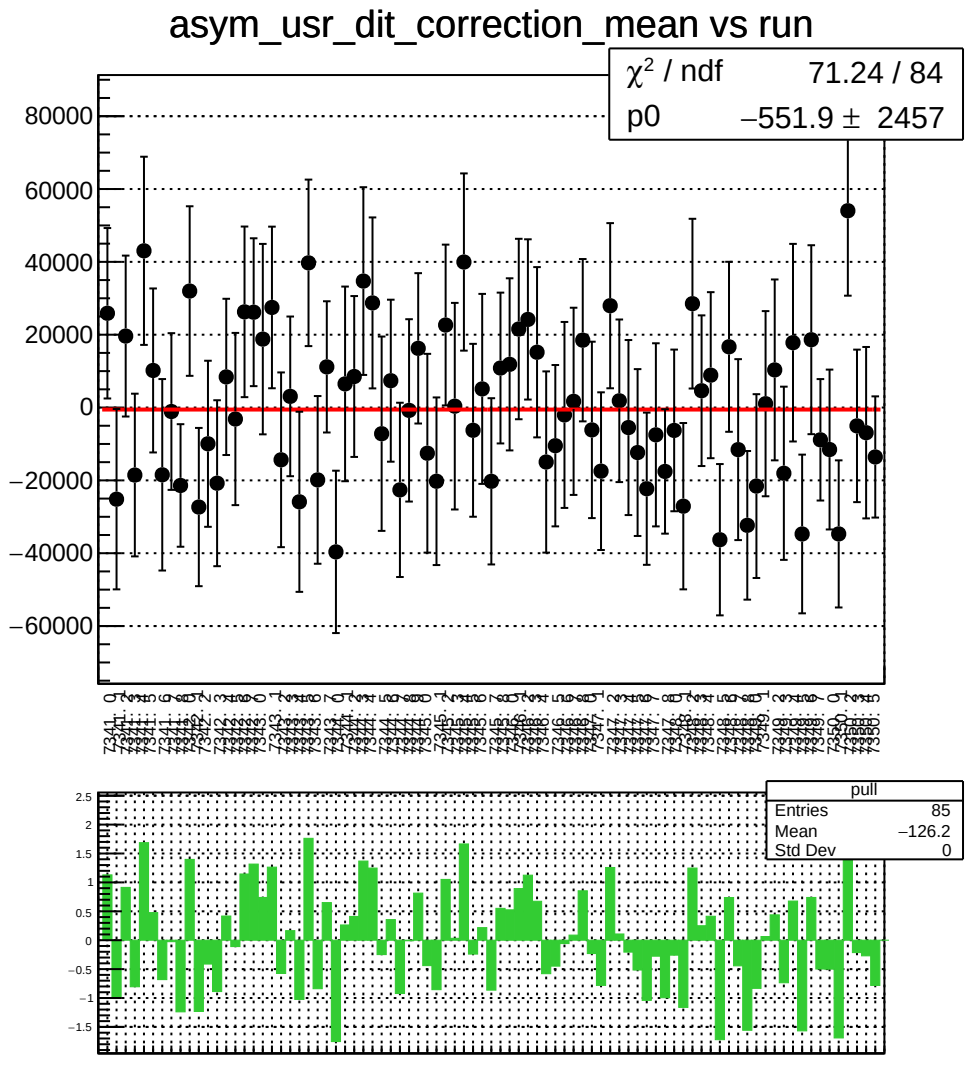

pull1D
Entries 85
Mean 0.02098
Std Dev 0.9056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

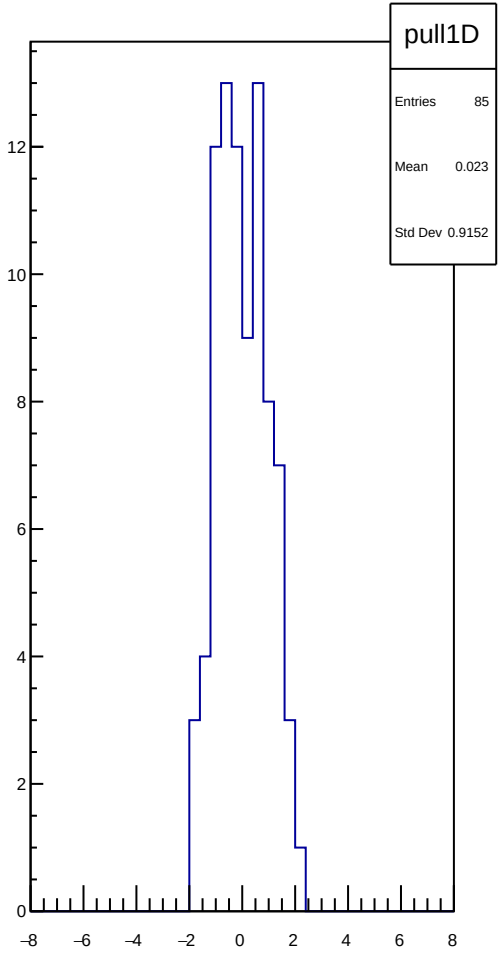

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 8721 / 84
p0 2175 ± 1.715
2600
2400
2200
2000
1800

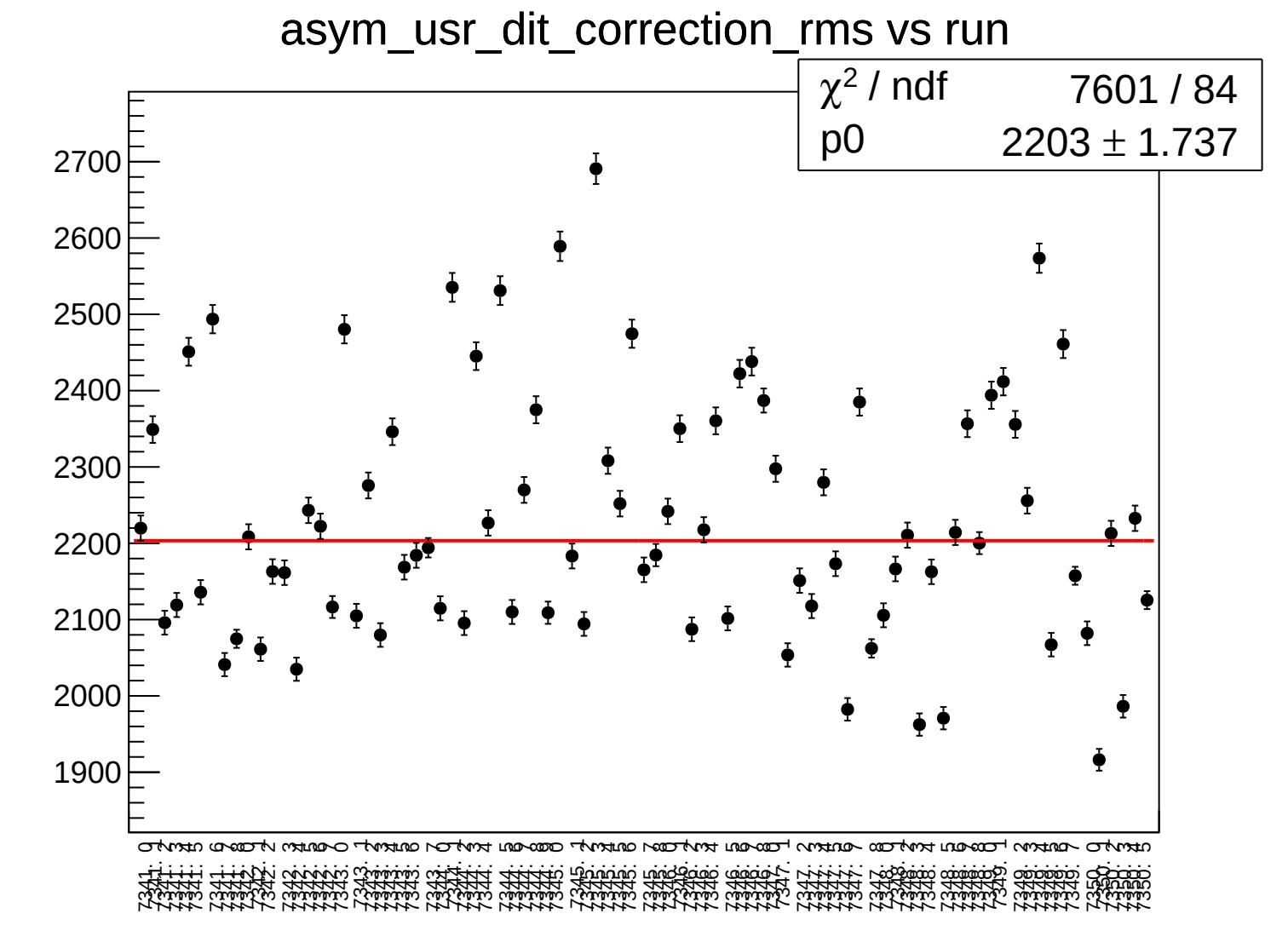

dit_asym_usr_mean vs run
χ² / ndf 63.22 / 84
p0 1781 ± 1227
pull
Entries 85
Mean 153.6
Std Dev 19.69

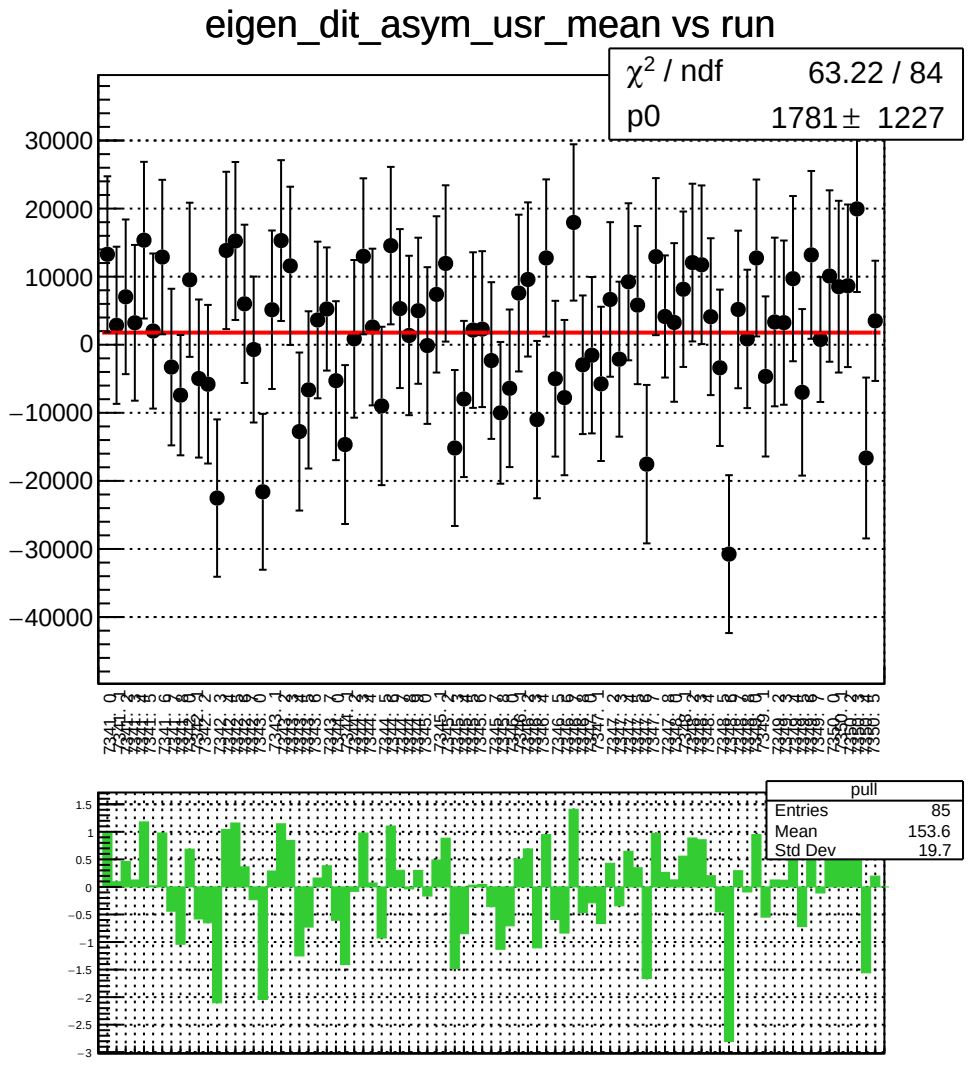

pull1D
Entries 85
Mean 0.005524
Std Dev 0.8624

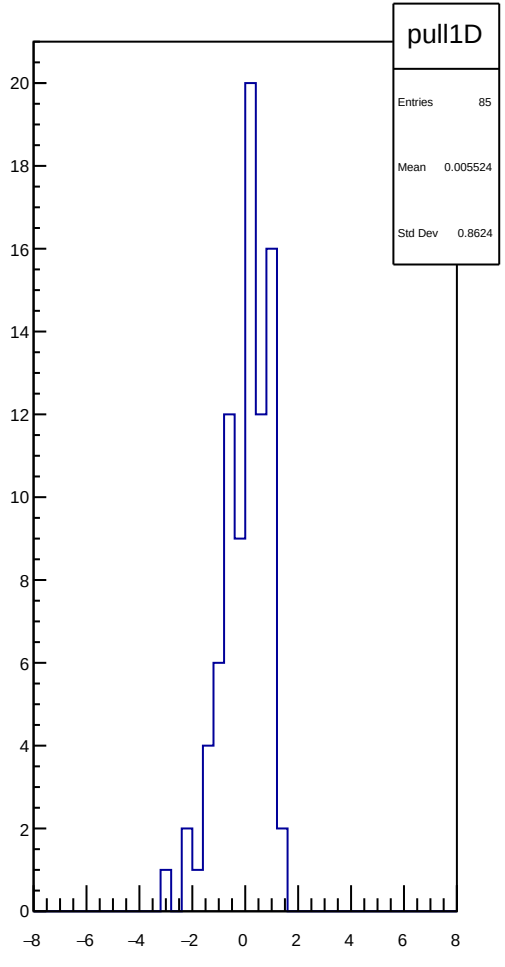

dit_asym_usr_rms vs run
χ^2 / ndf 897 / 84
p0 1103 ± 0.8677
1200
1180
1160
1140
1120
1100
1080
1060

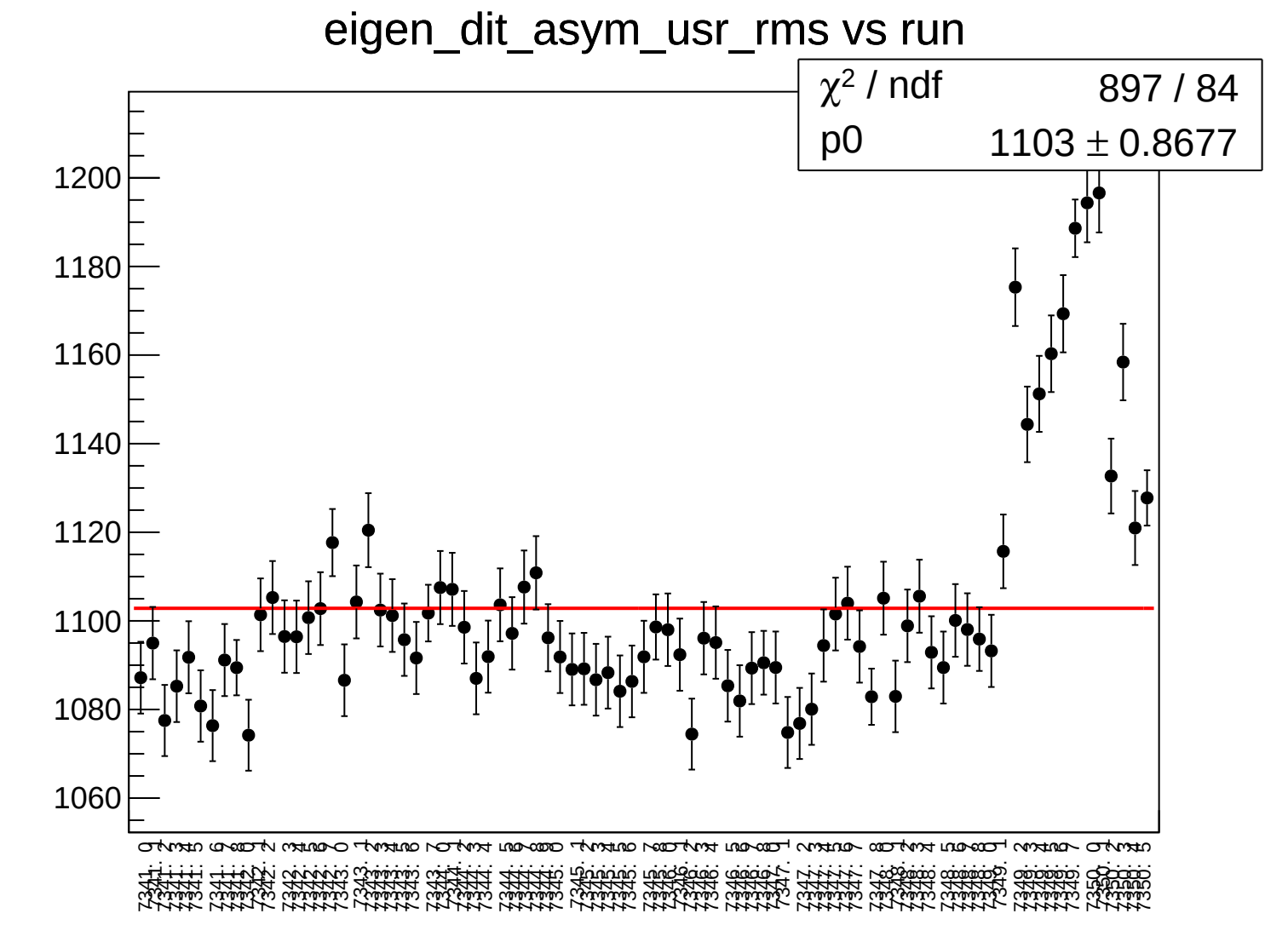

asym_usr_dit_correction_mean vs run
χ² / ndf 71.24 / 84
p0 −551.9 ± 2457
pull
Entries 85
Mean −126.2
Std Dev 0

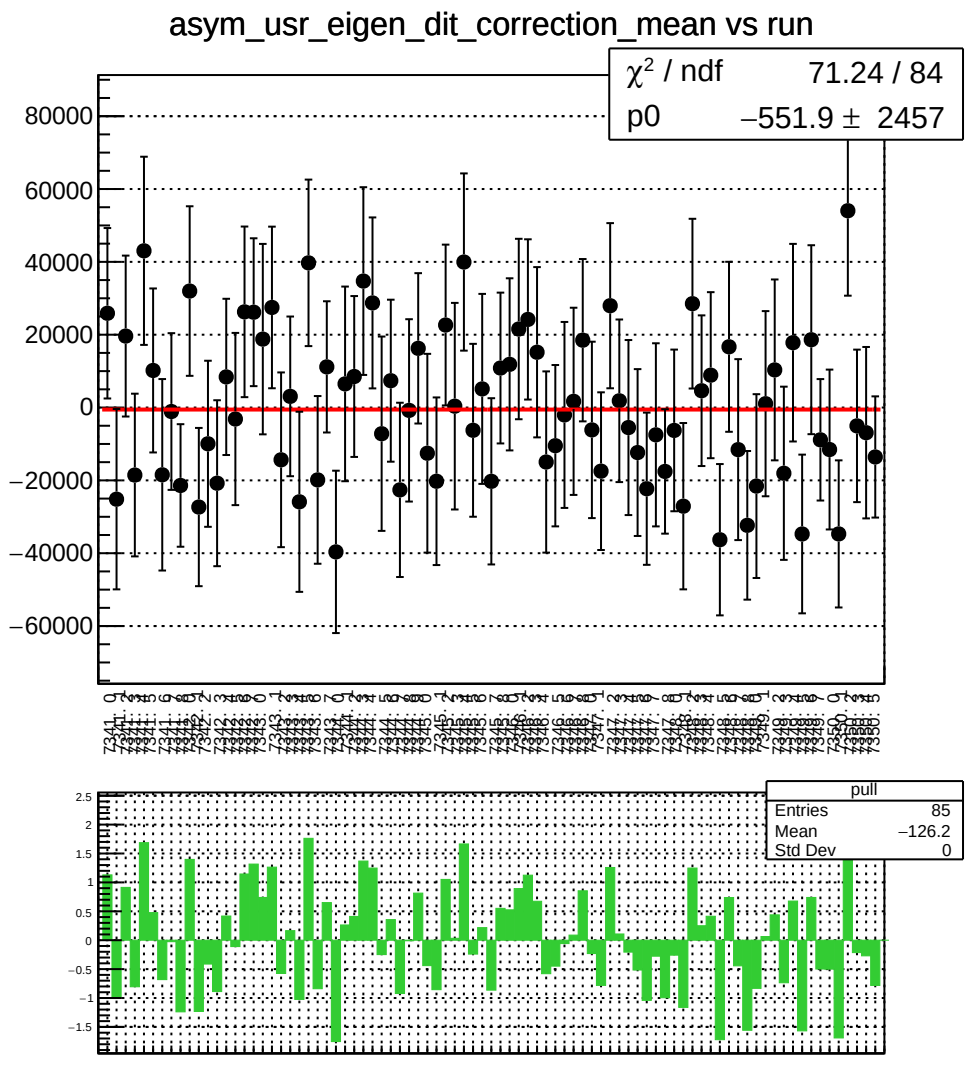

pull1D
Entries 85
Mean 0.023
Std Dev 0.9152

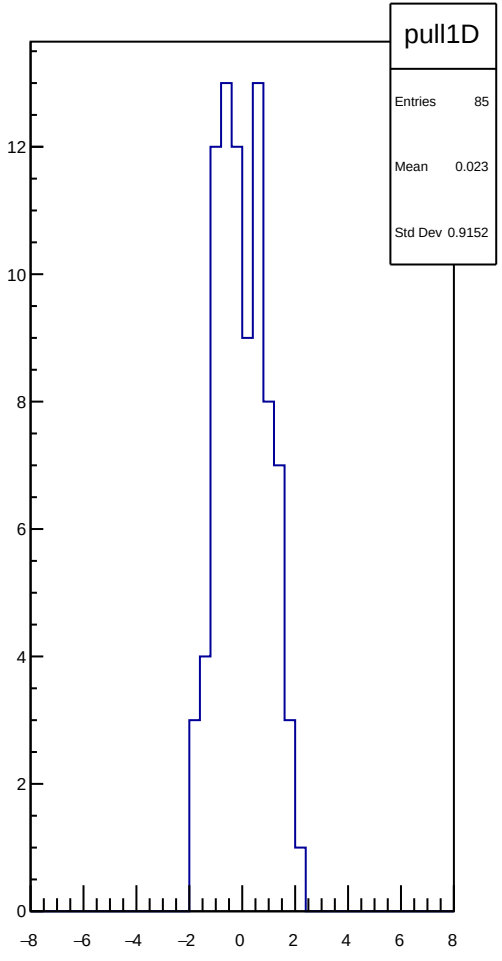

asym_usr_dit_correction_rms vs run
χ^2 / ndf 7601 / 84
p0 2203 ± 1.737
2700
2600
2500
2400
2300
2200
2100
2000
1900

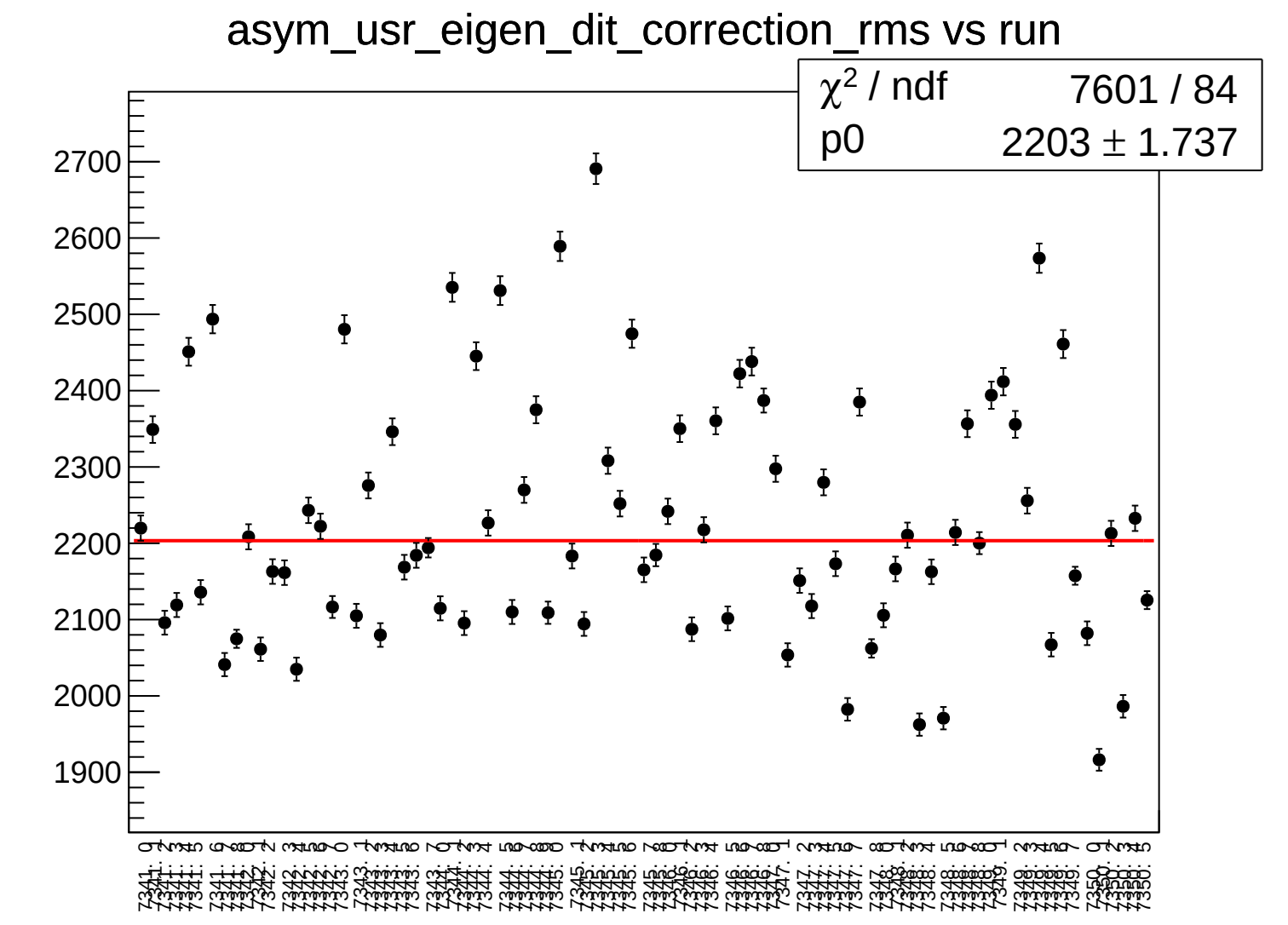

eigen_dit_asym_usr_mean vs run
χ² / ndf 63.22 / 84
p0 1781 ± 1227
pull
Entries 85
Mean 153.6
Std Dev 19.7

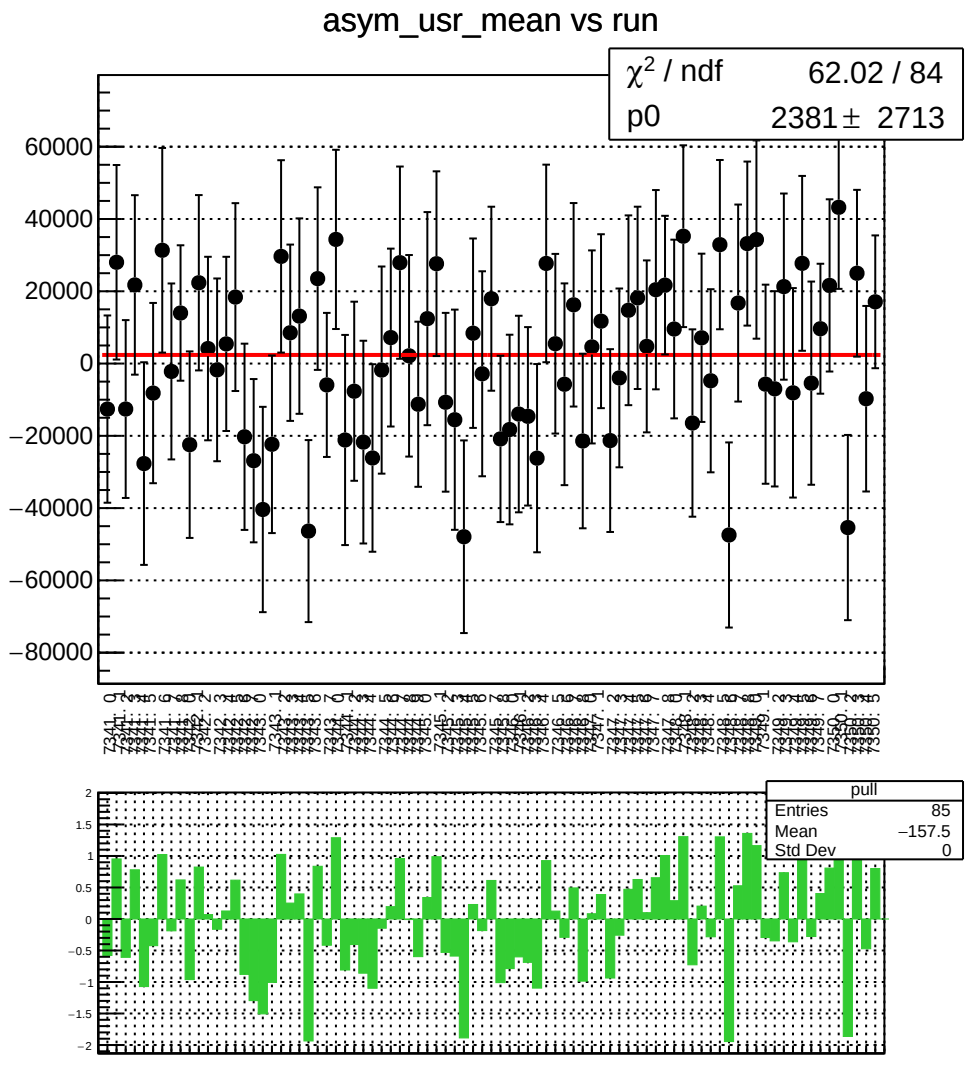

pull1D
Entries 85
Mean 0.005524
Std Dev 0.8624

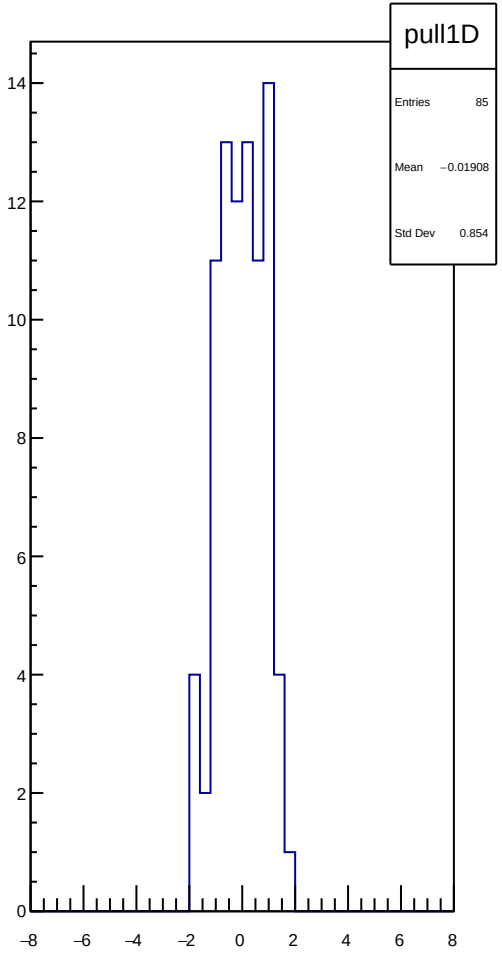

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 897 / 84
p0 1103 ± 0.8677
1200
1180
1160
1140
1120
1100
1080
1060

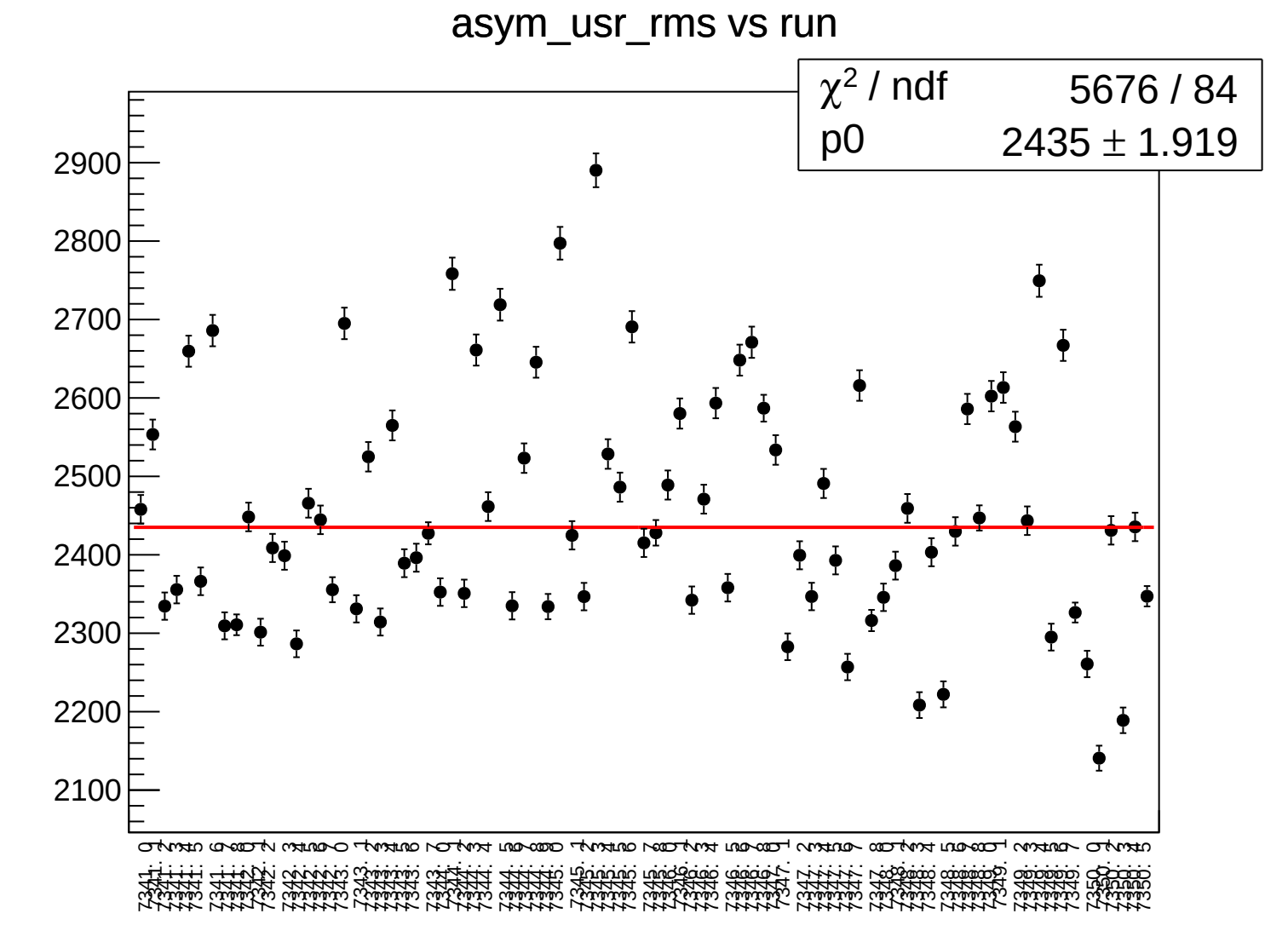

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 71.24 / 84
p0 −551.9 ± 2457
pull
Entries 85
Mean −126.2
Std Dev 0

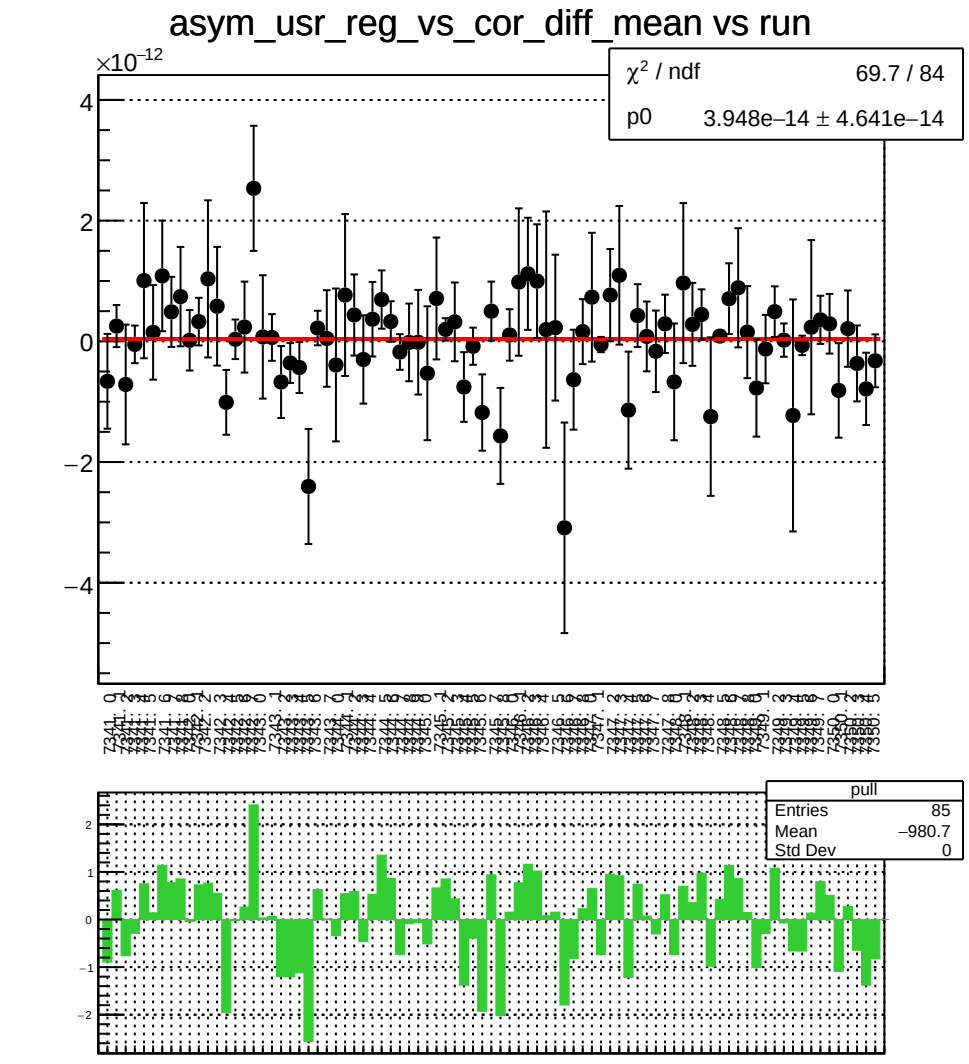

pull1D
Entries 85
Mean 0.023
Std Dev 0.9152

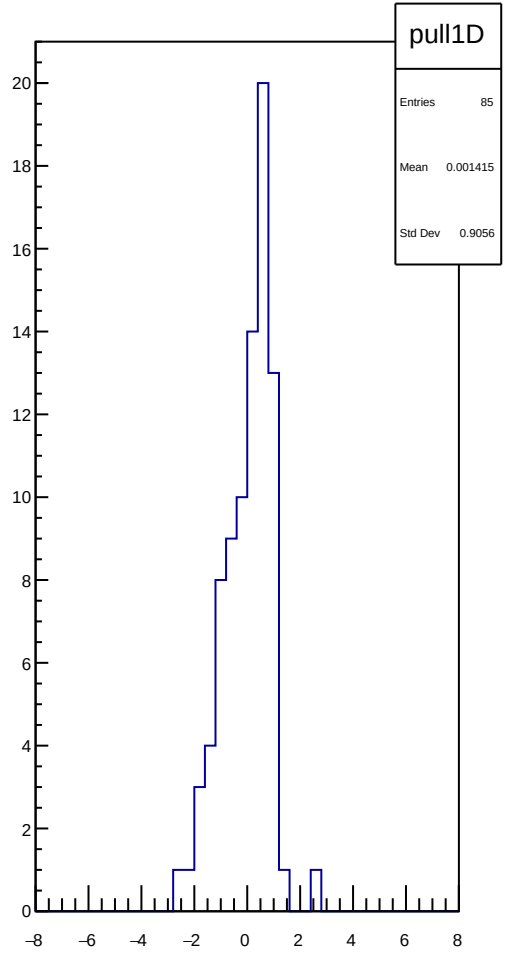

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 7601 / 84
p0 2203 ± 1.737
2700
2600
2500
2400
2300
2200
2100
2000
1900

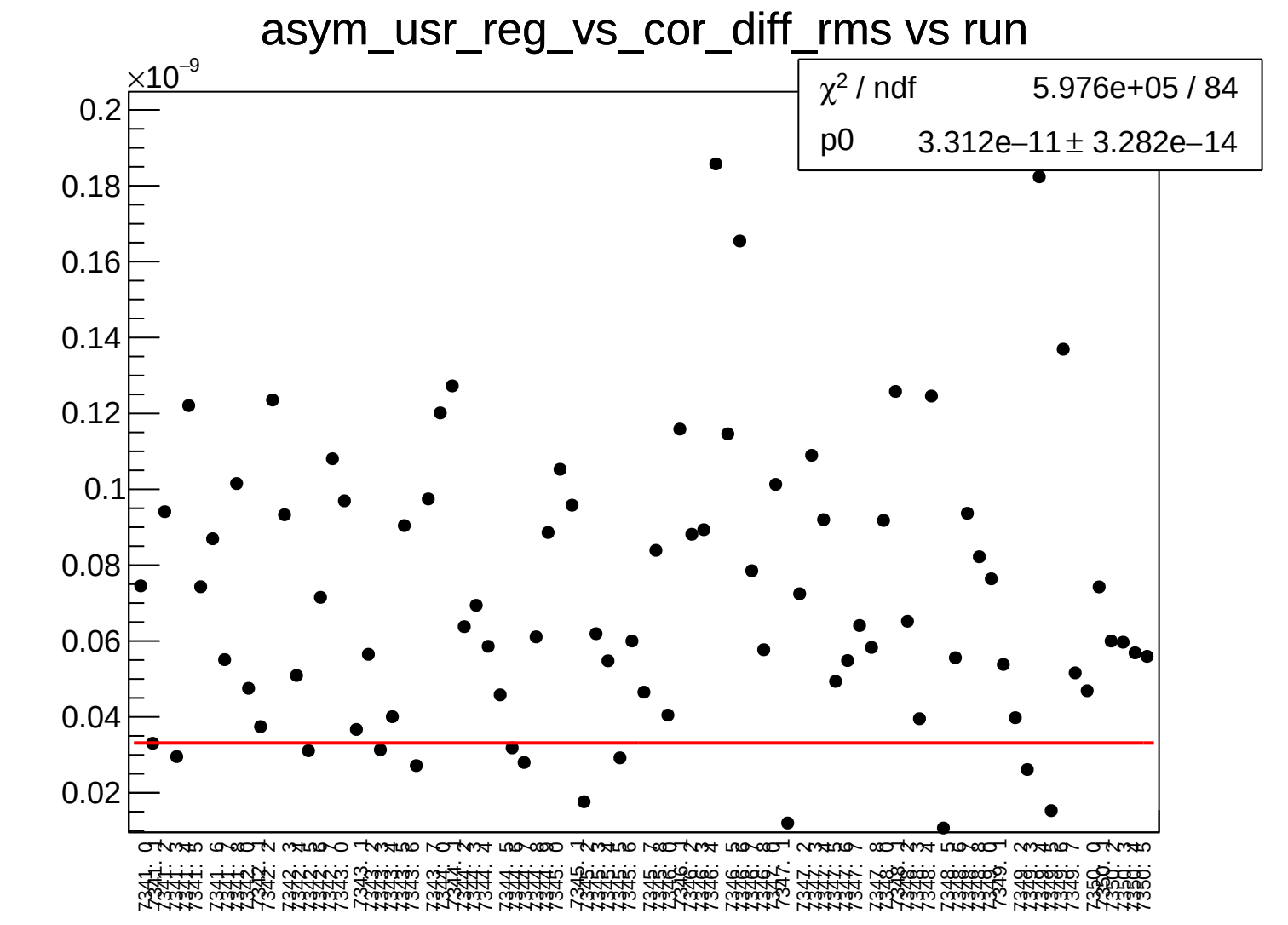

asym_usr_mean vs run
χ² / ndf 62.02 / 84
p0 2381 ± 2713
pull
Entries 85
Mean −157.5
Std Dev 0

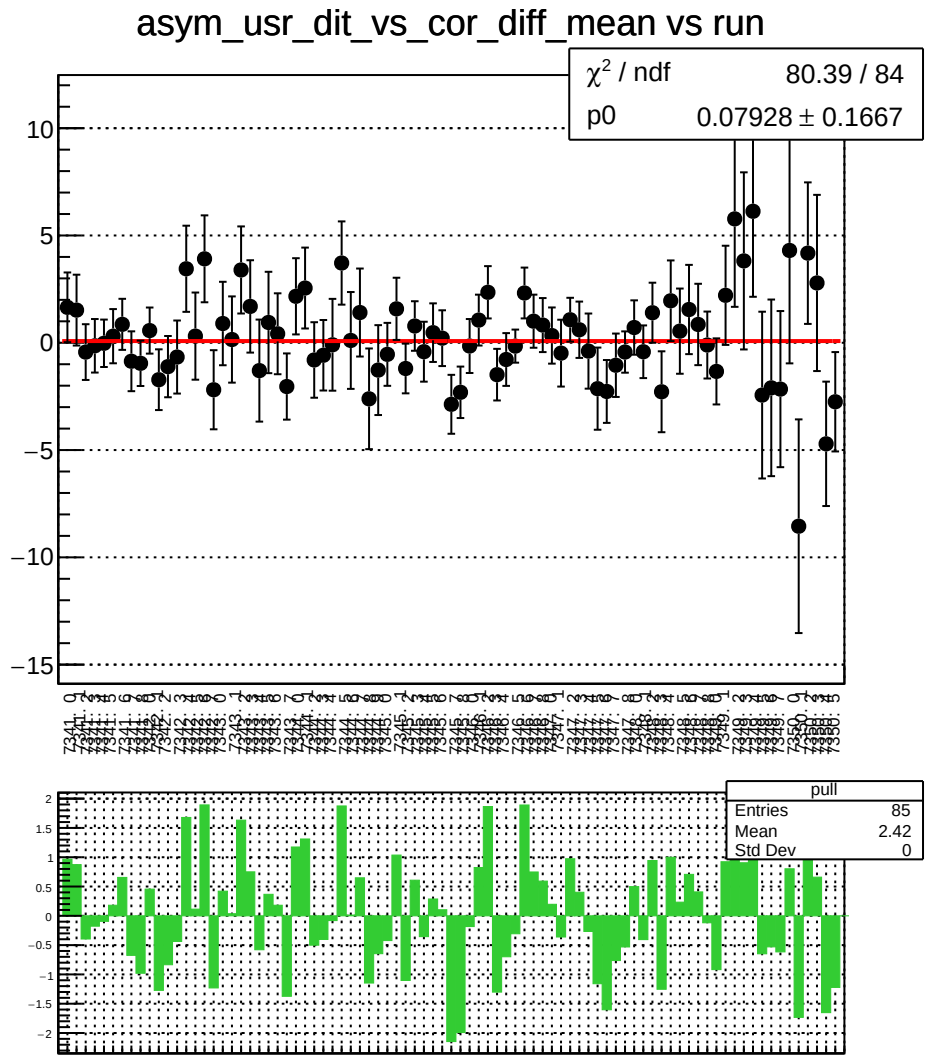

pull1D
Entries 85
Mean −0.01908
Std Dev 0.854

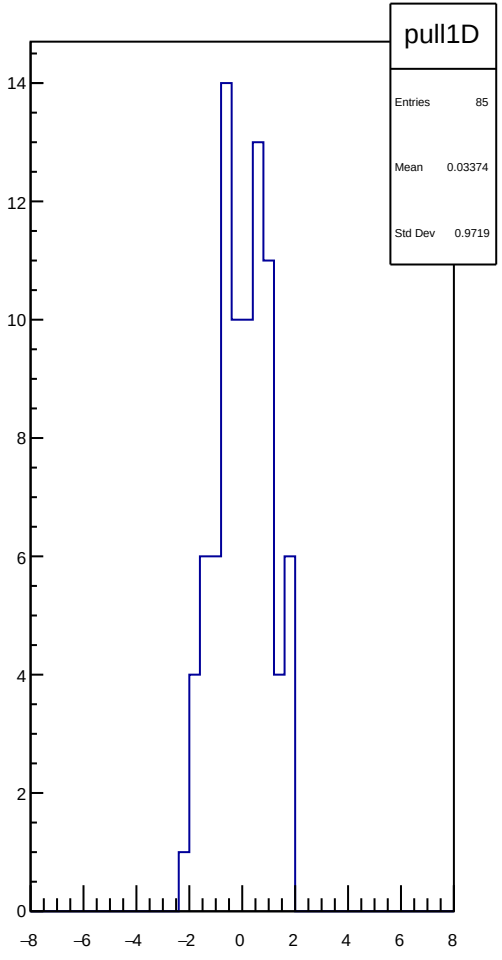

asym_usr_rms vs run
χ^2 / ndf 5676 / 84
p0 2435 ± 1.919
2900
2800
2700
2600
2500
2400
2300
2200
2100

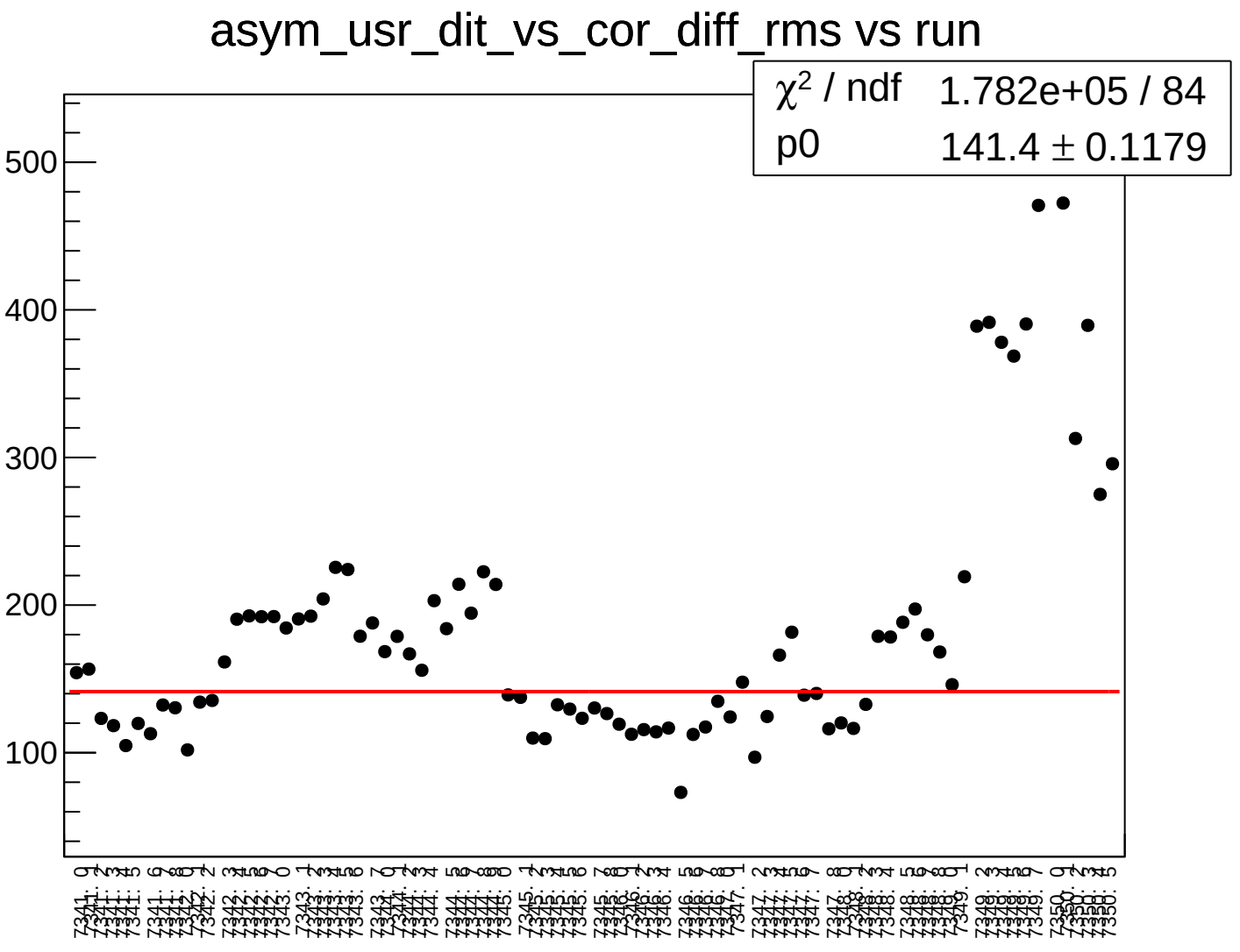

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.7 / 84
p0 3.948e−14 ± 4.641e−14
pull
Entries 85
Mean −980.7
Std Dev 0

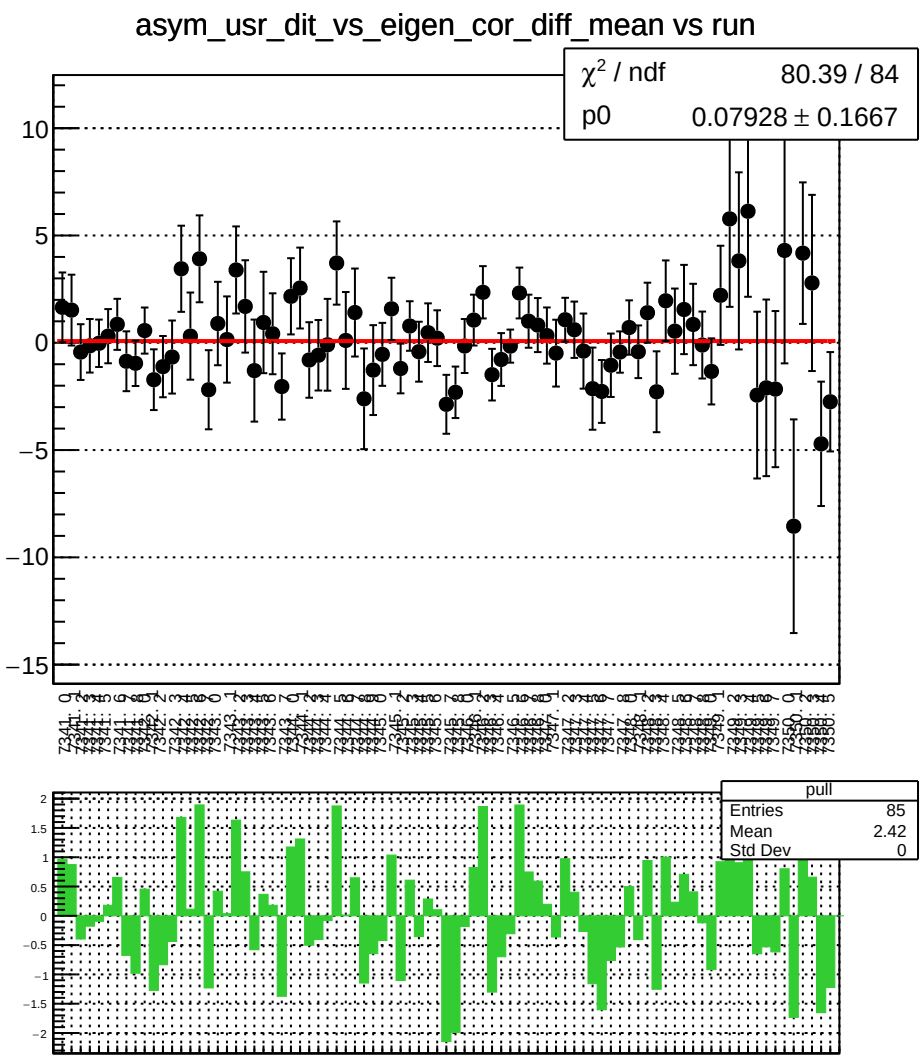

pull1D
Entries 85
Mean 0.001415
Std Dev 0.9056

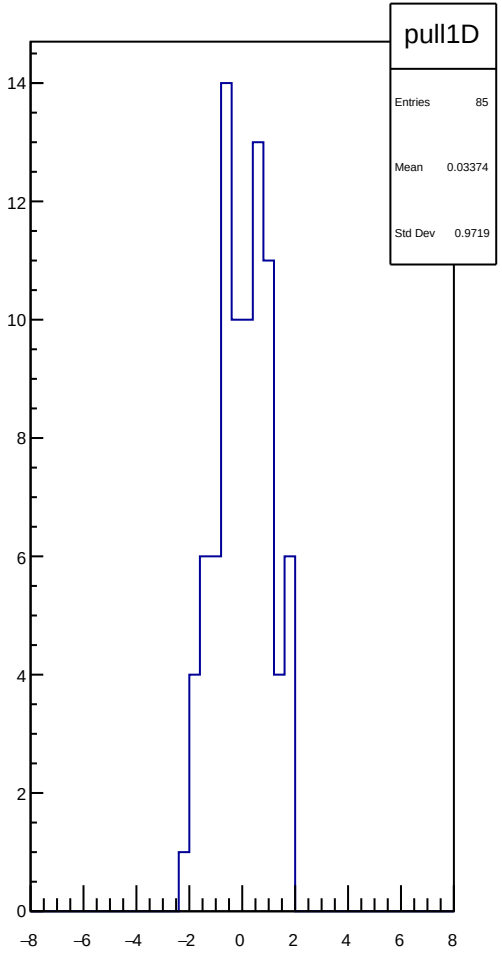

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.976e+05 / 84
p0 3.312e−11 ± 3.282e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

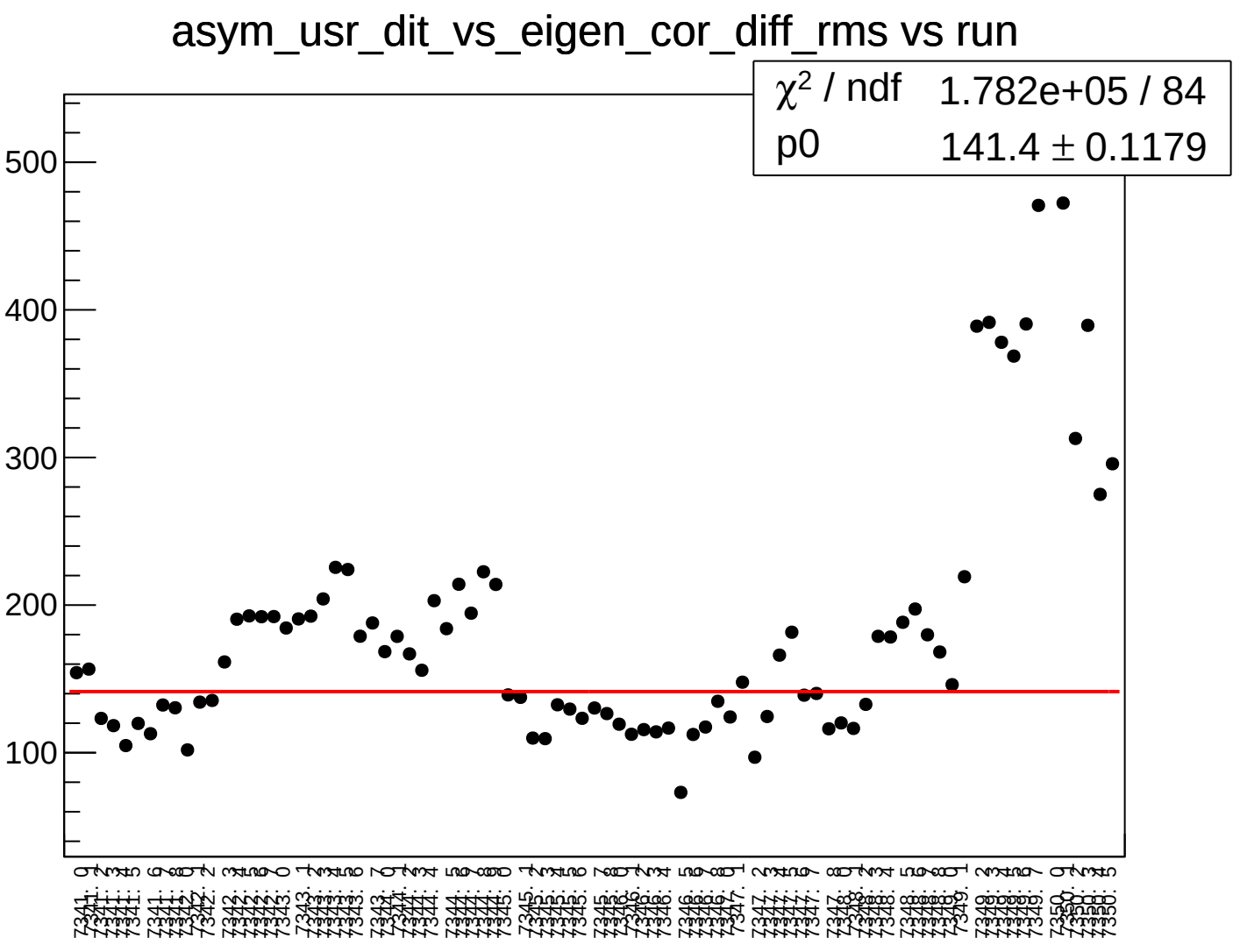

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 80.39 / 84
p0 0.07928 ± 0.1667
pull
Entries 85
Mean 2.42
Std Dev 0

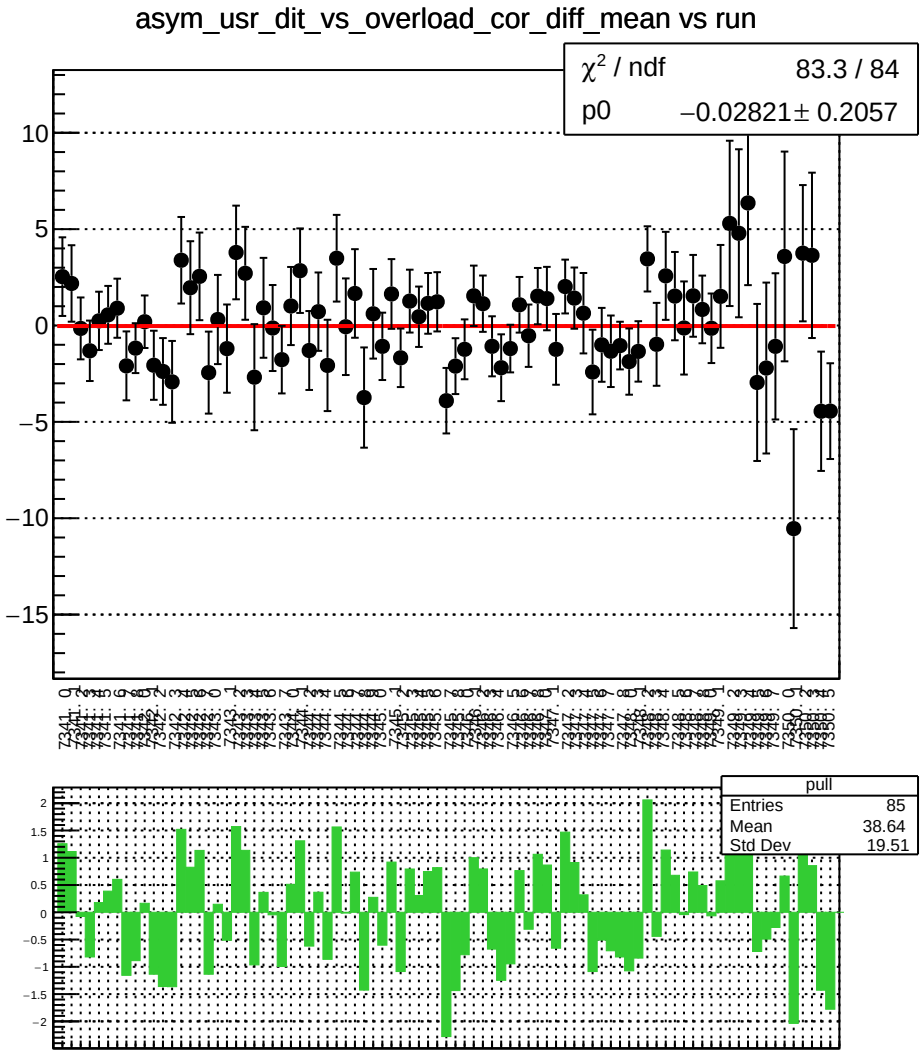

pull1D
Entries 85
Mean 0.03374
Std Dev 0.9719

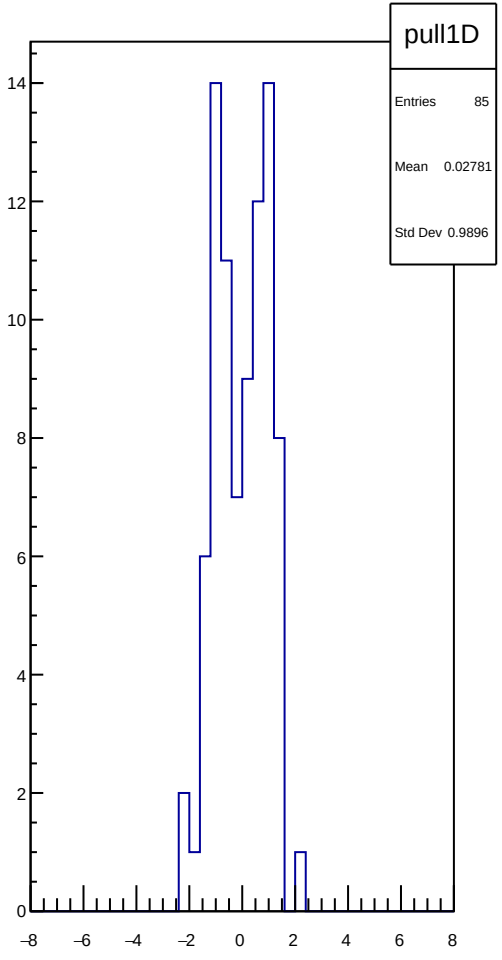

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.782e+05 / 84
p0 141.4 ± 0.1179
500
400
300
200
100

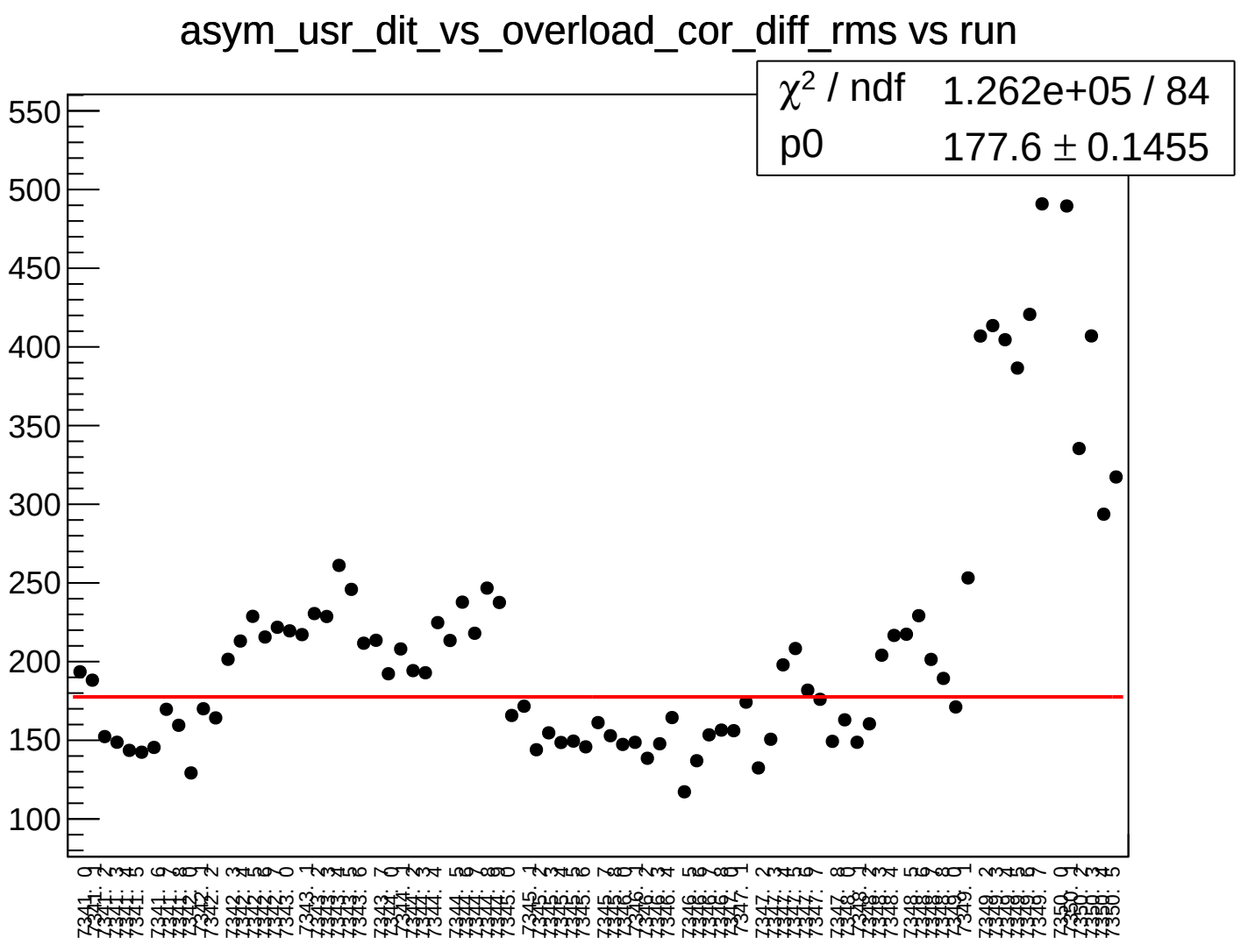

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.39 / 84
p0 0.07928 ± 0.1667
pull
Entries 85
Mean 2.42
Std Dev 0

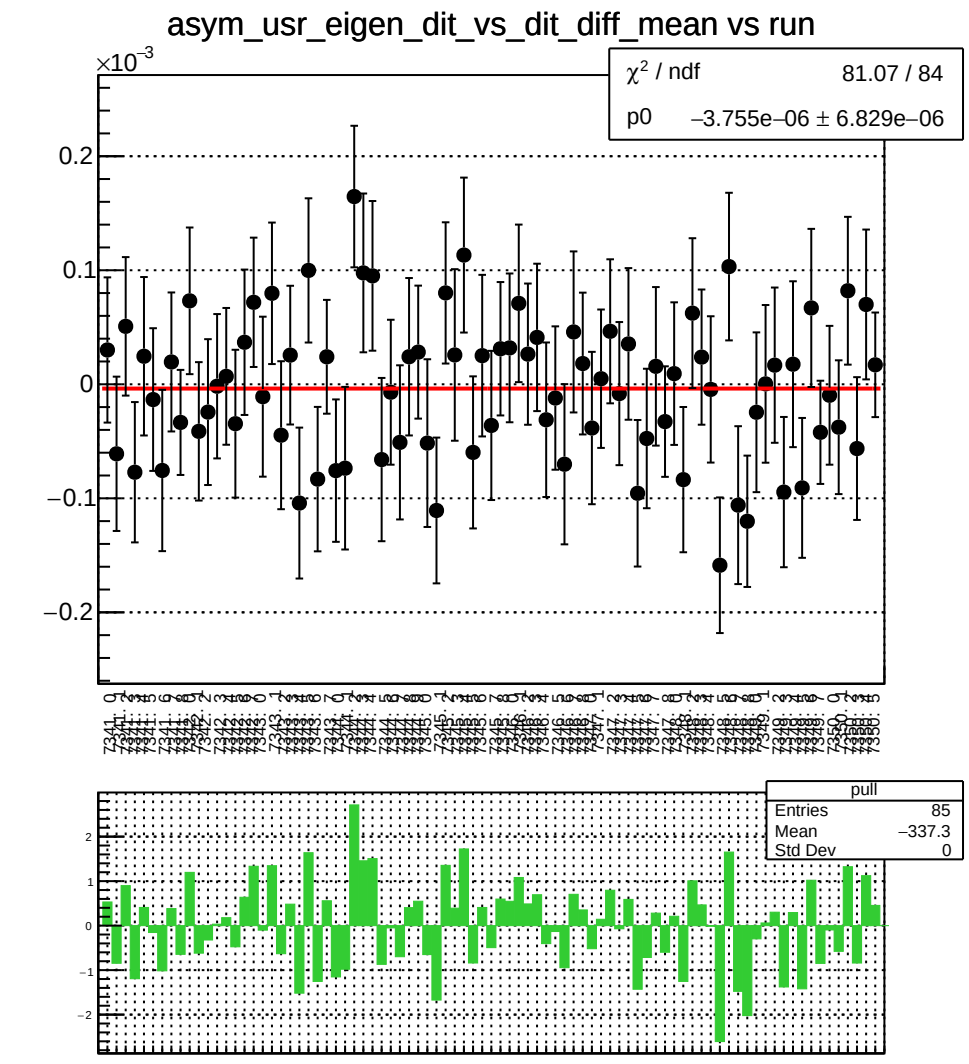

pull1D
Entries 85
Mean 0.03374
Std Dev 0.9719

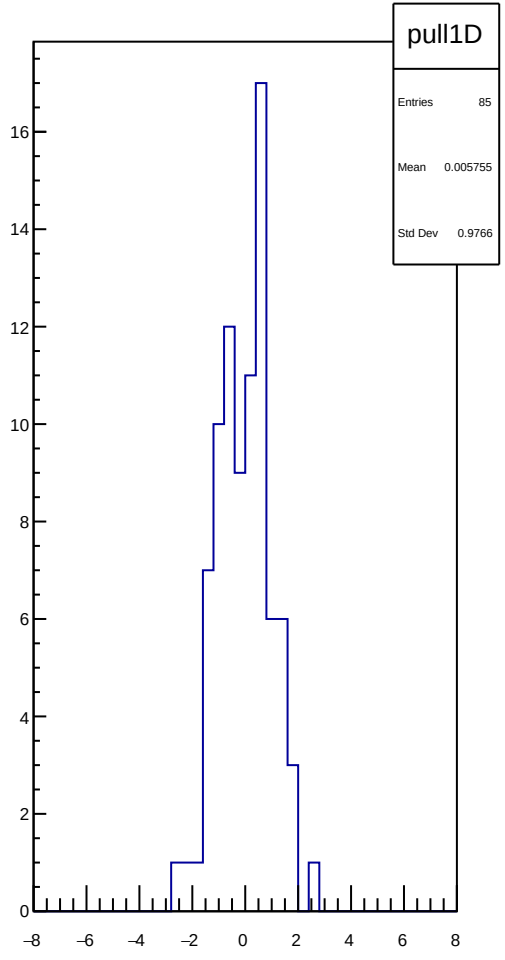

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.782e+05 / 84
p0 141.4 ± 0.1179
500
400
300
200
100

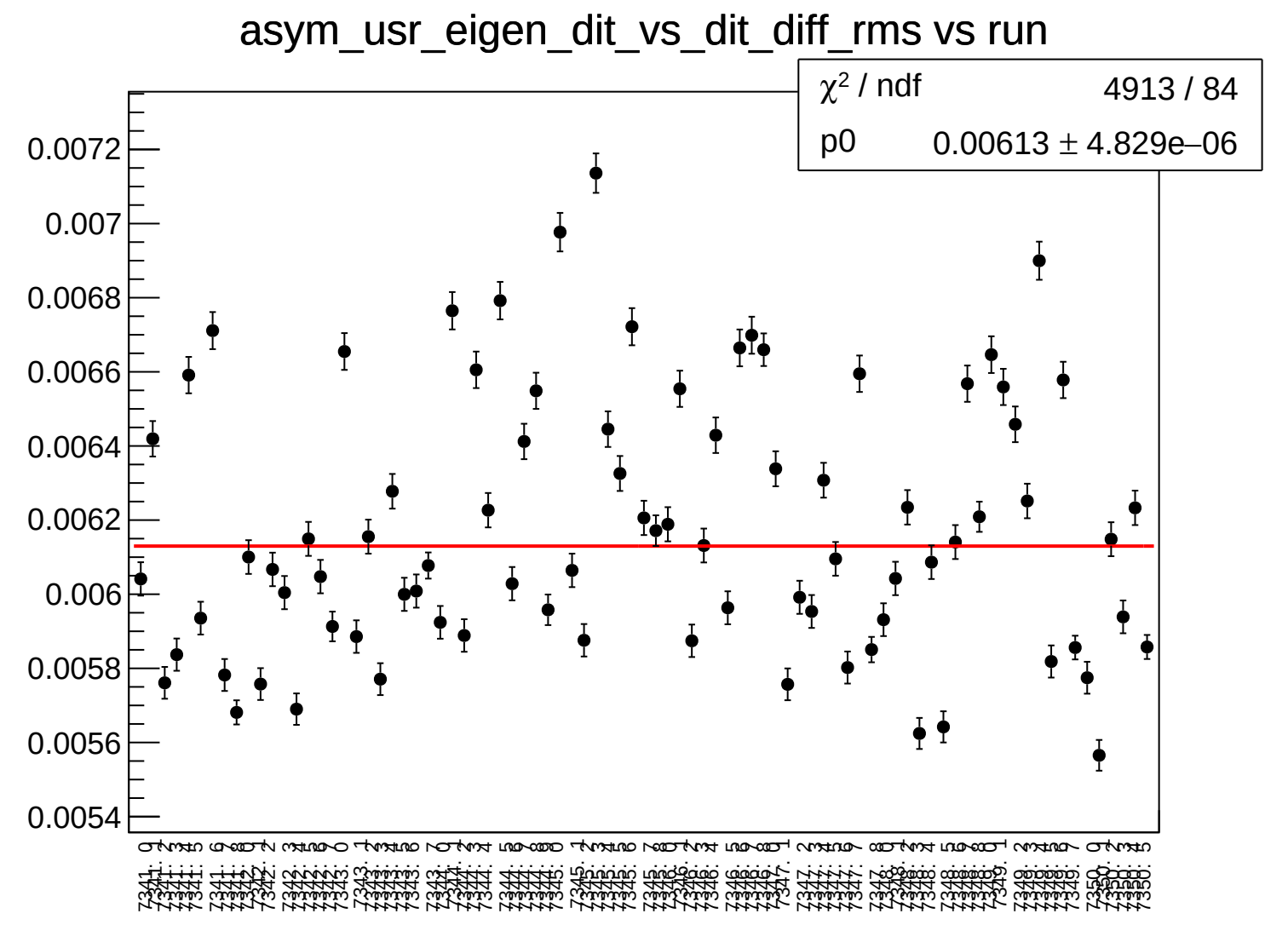

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.3 / 84
p0 −0.02821± 0.2057
pull
Entries 85
Mean 38.64
Std Dev 19.51

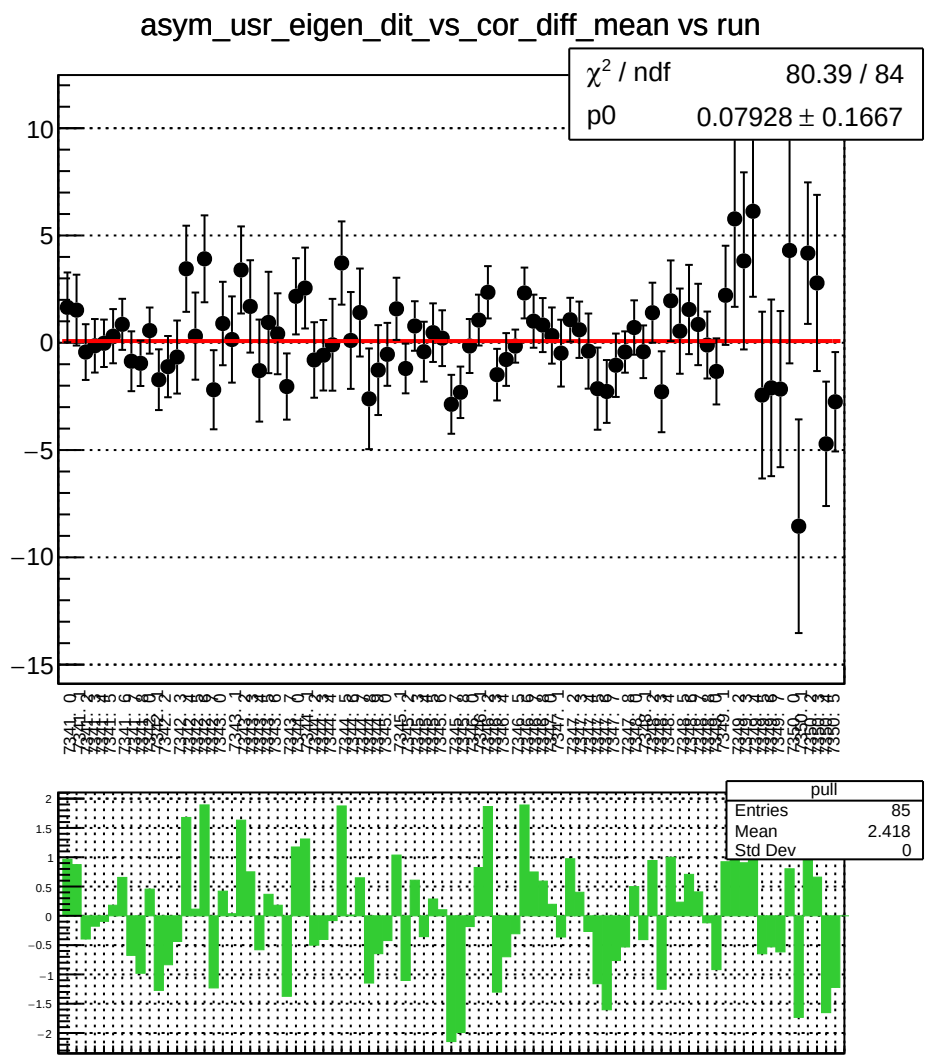

pull1D
Entries 85
Mean 0.02781
Std Dev 0.9896

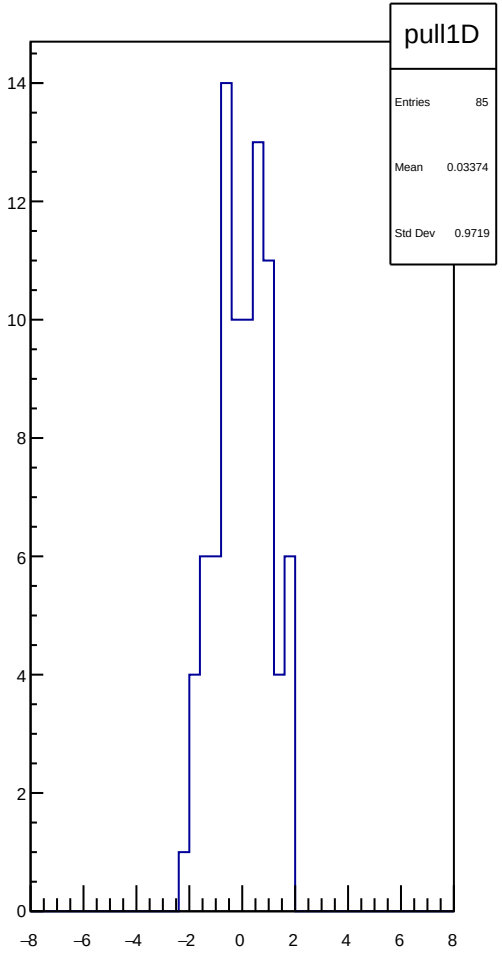

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 84
p0 177.6 ± 0.1455
550
500
450
400
350
300
250
200
150
100

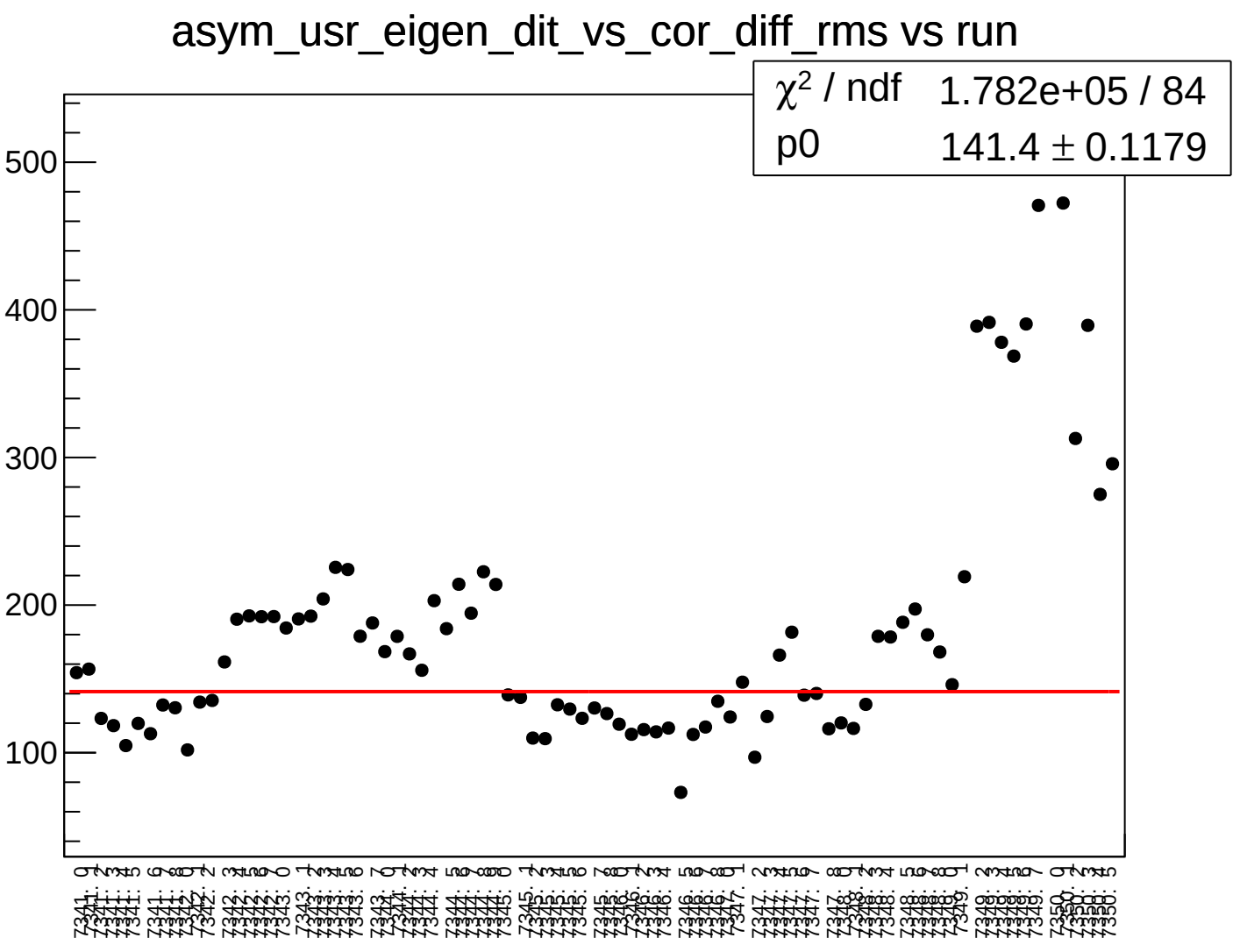

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.07 / 84
p0 −3.755e−06 ± 6.829e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 85
Mean −337.3
Std Dev 0
2
1
0
−1
−2

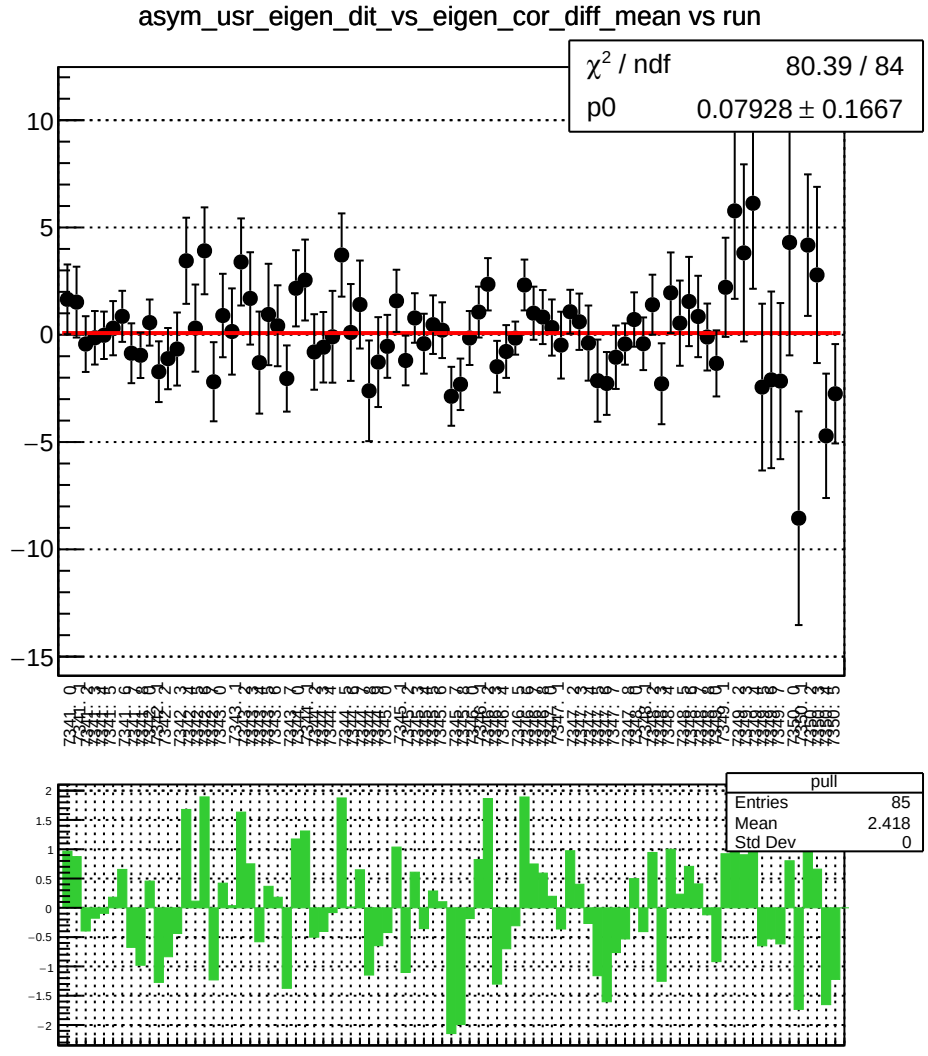

pull1D
Entries 85
Mean 0.005755
Std Dev 0.9766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

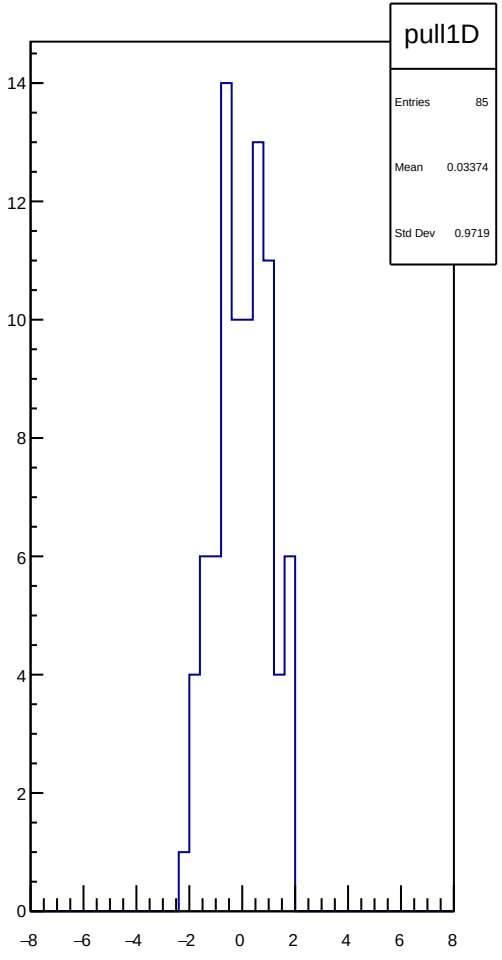

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4913 / 84
p0 0.00613 ± 4.829e–06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054

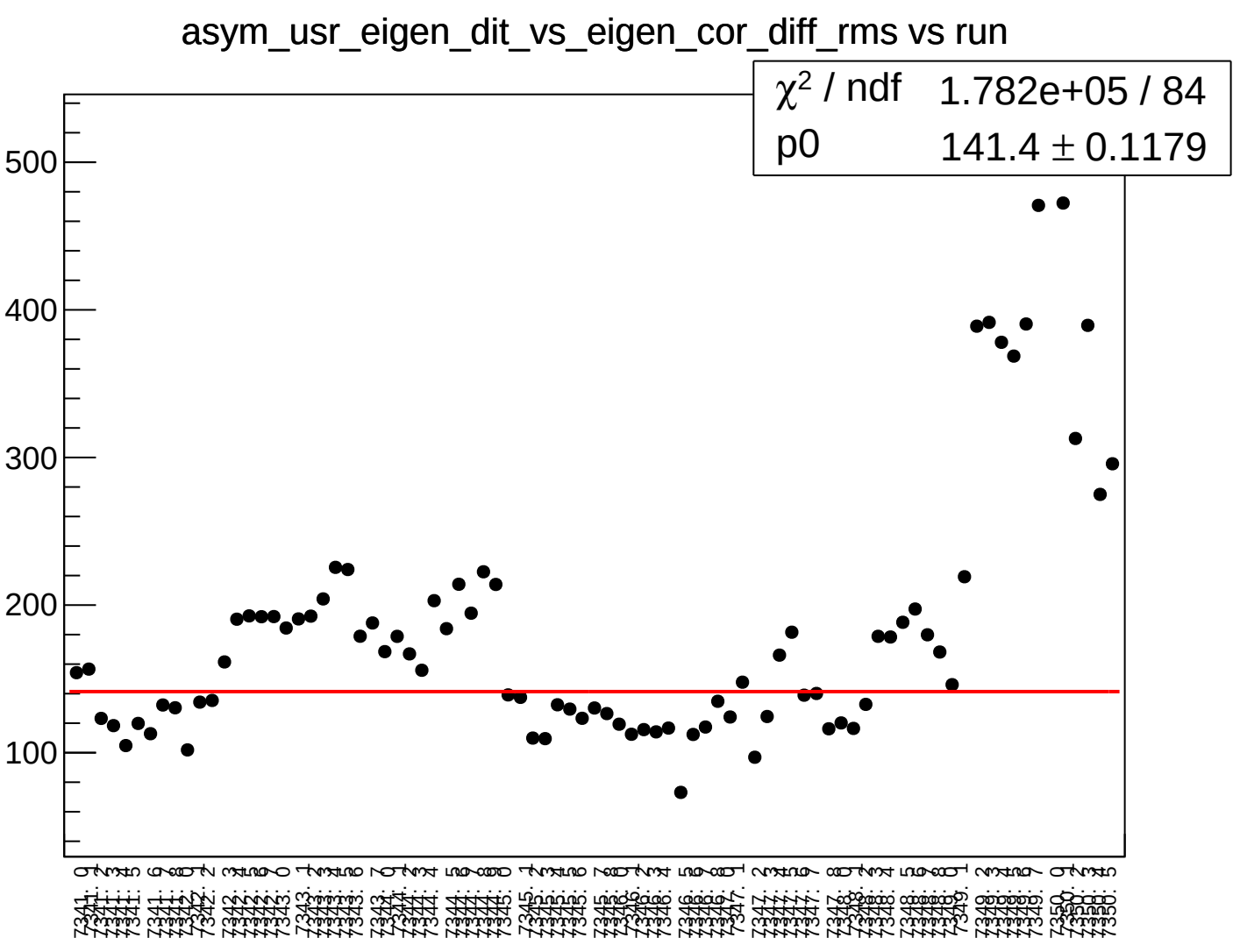

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.39 / 84
p0 0.07928 ± 0.1667
pull
Entries 85
Mean 2.418
Std Dev 0

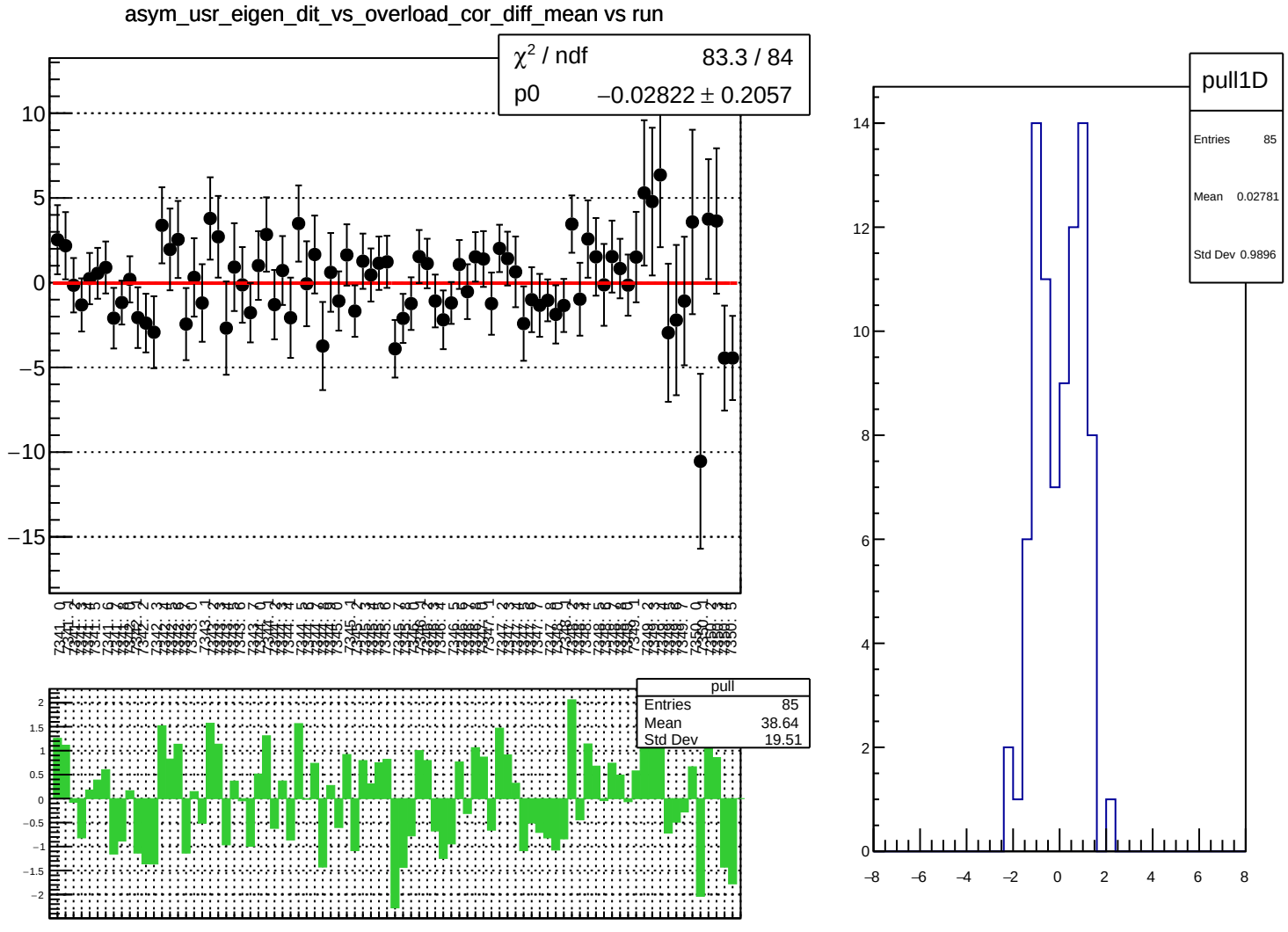

pull1D
Entries 85
Mean 0.03374
Std Dev 0.9719

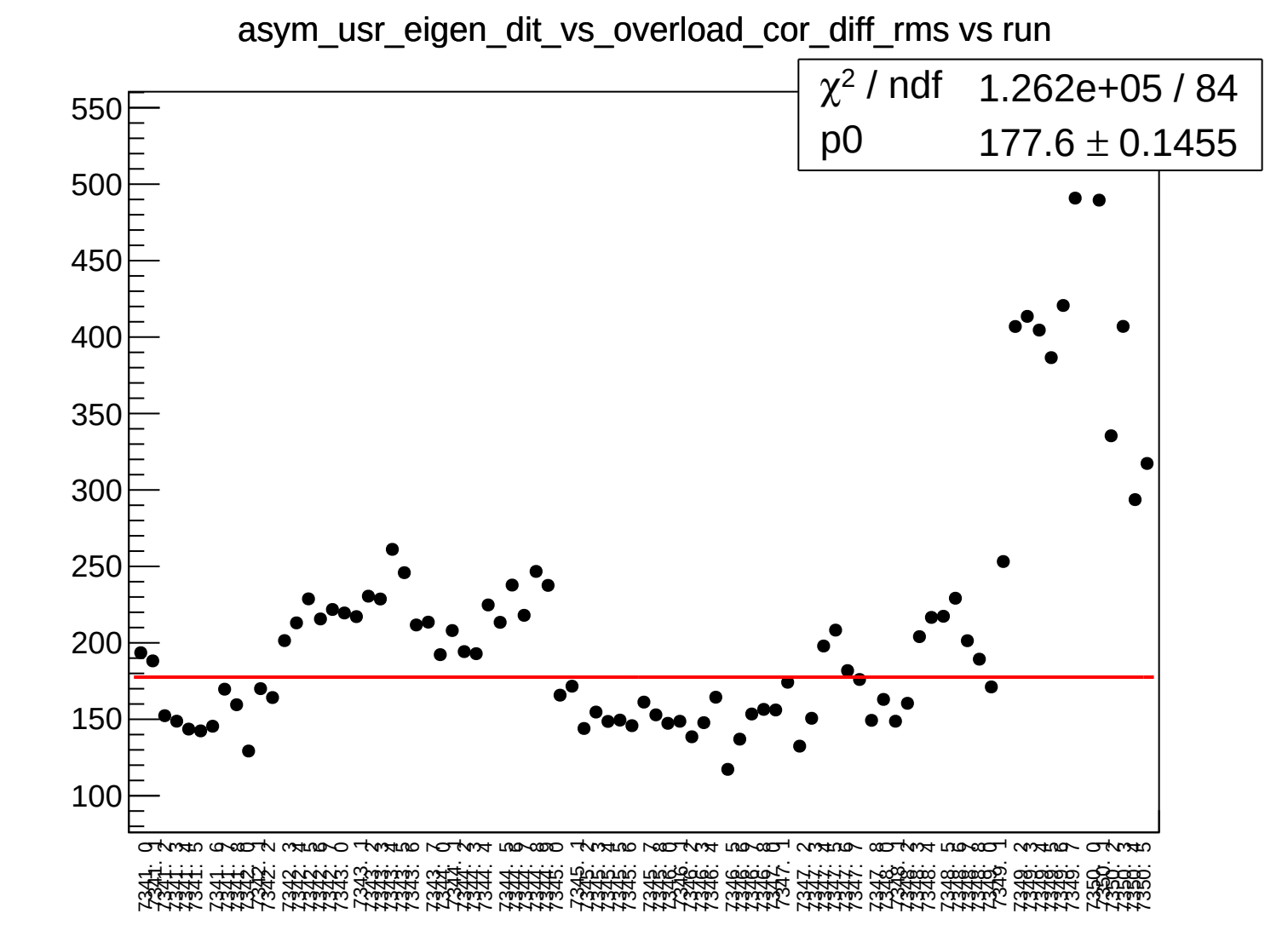

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.782e+05 / 84
p0 141.4 ± 0.1179
500
400
300
200
100

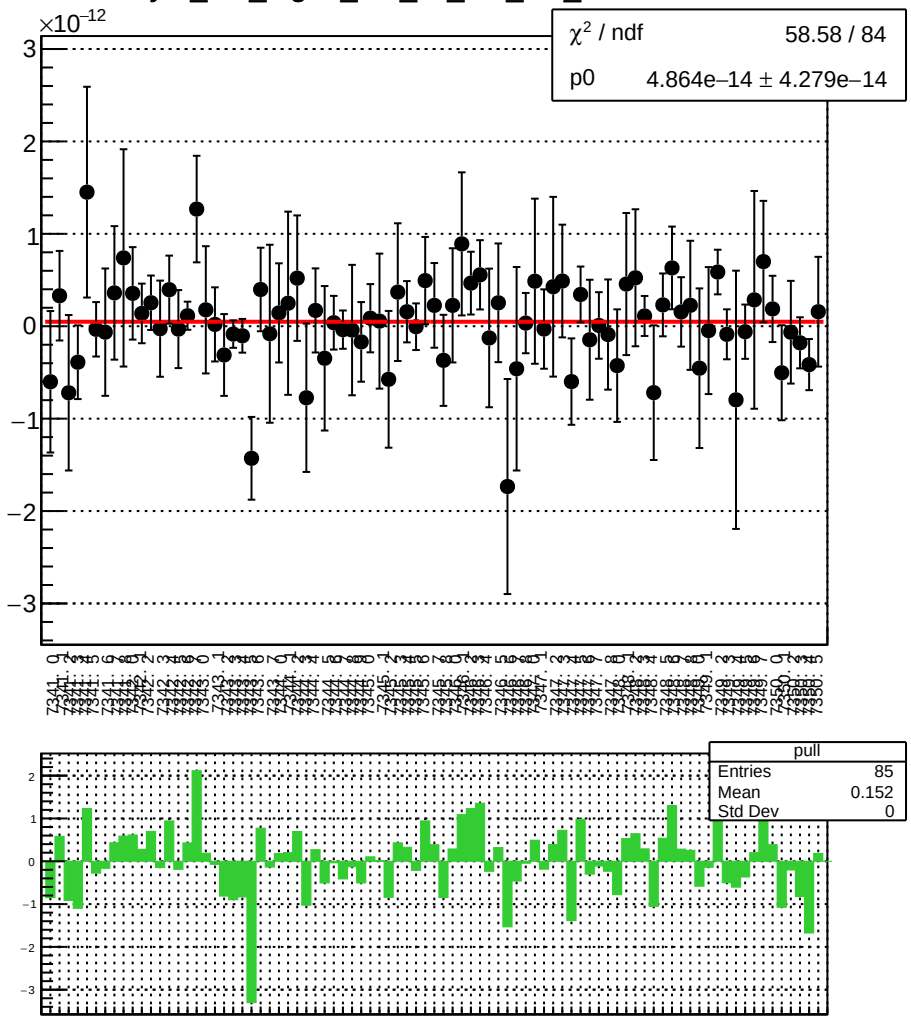

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.39 / 84
p0 0.07928 ± 0.1667
pull
Entries 85
Mean 2.418
Std Dev 0

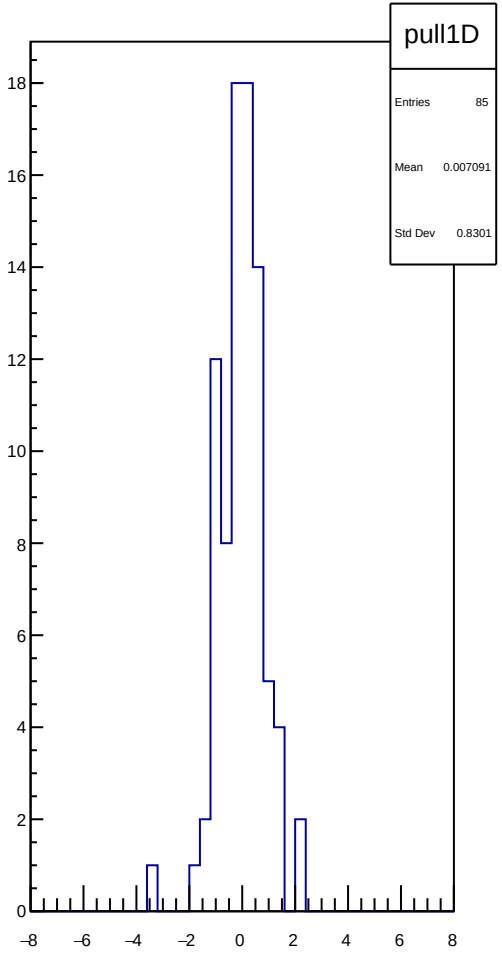

pull1D
Entries 85
Mean 0.03374
Std Dev 0.9719

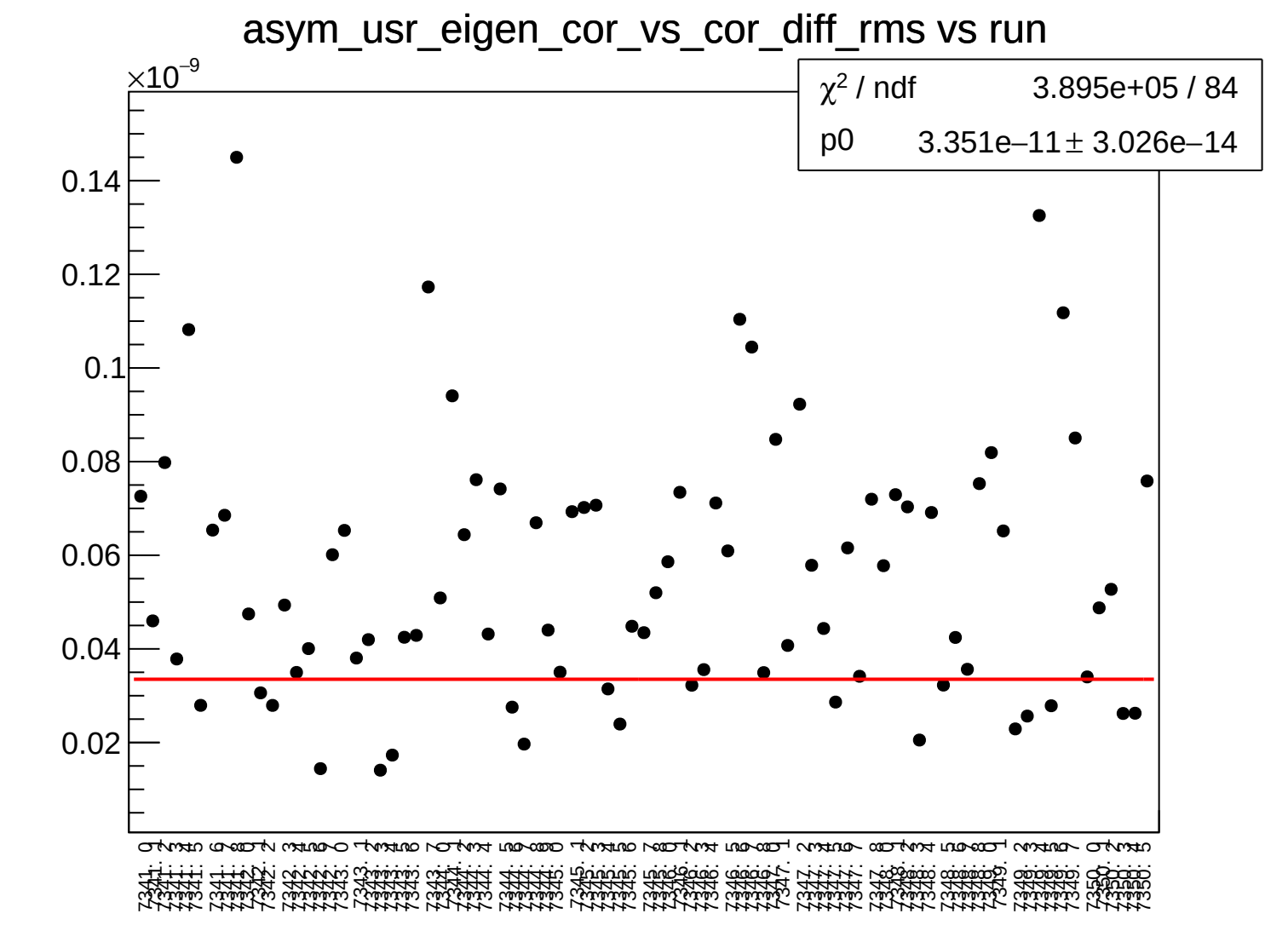

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.782e+05 / 84
p0 141.4 ± 0.1179
500
400
300
200
100

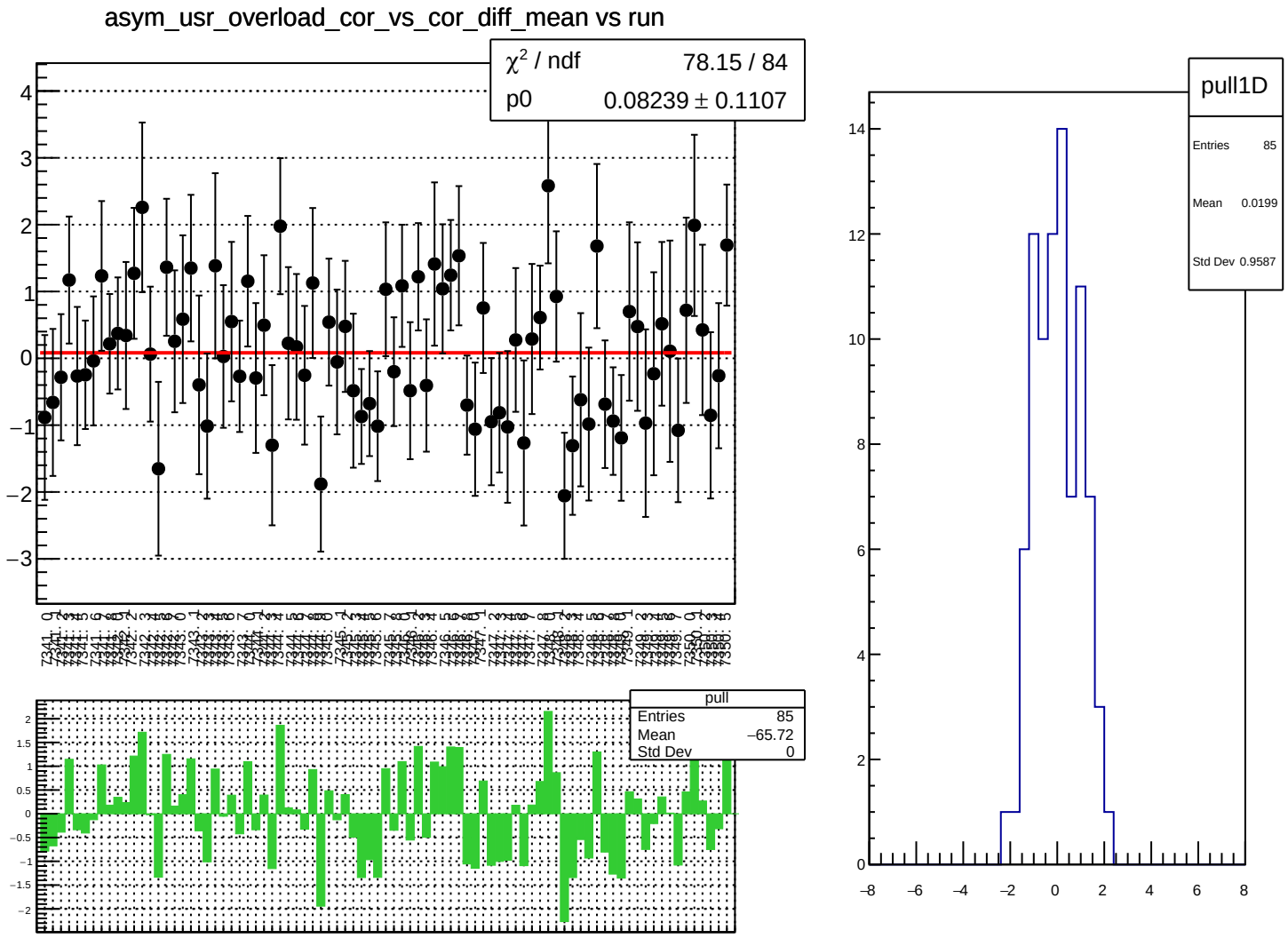

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.3 / 84
p0 −0.02822 ± 0.2057
pull
Entries 85
Mean 38.64
Std Dev 19.51
pull1D
Entries 85
Mean 0.02781
Std Dev 0.9896

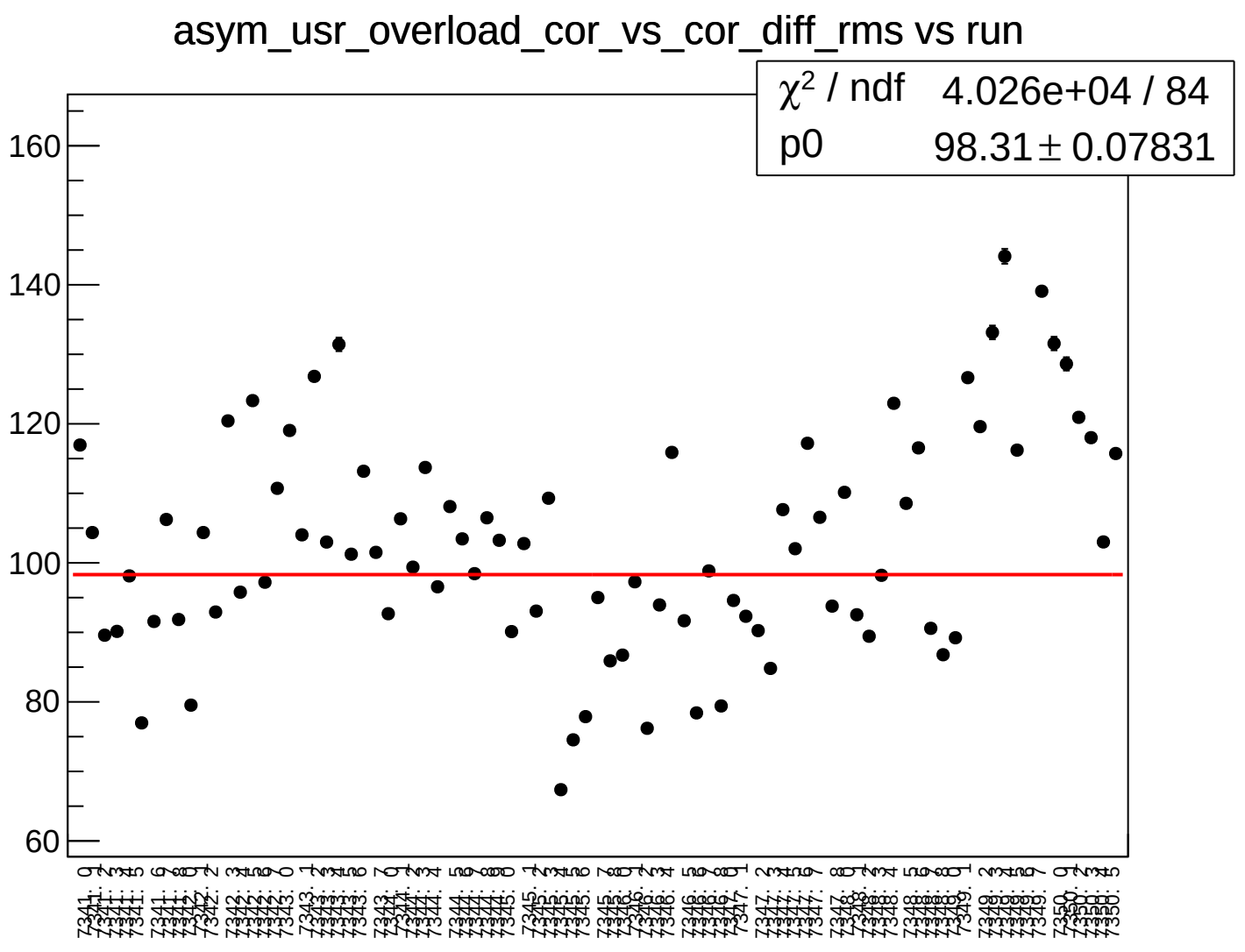

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 84
p0 177.6 ± 0.1455
550
500
450
400
350
300
250
200
150
100

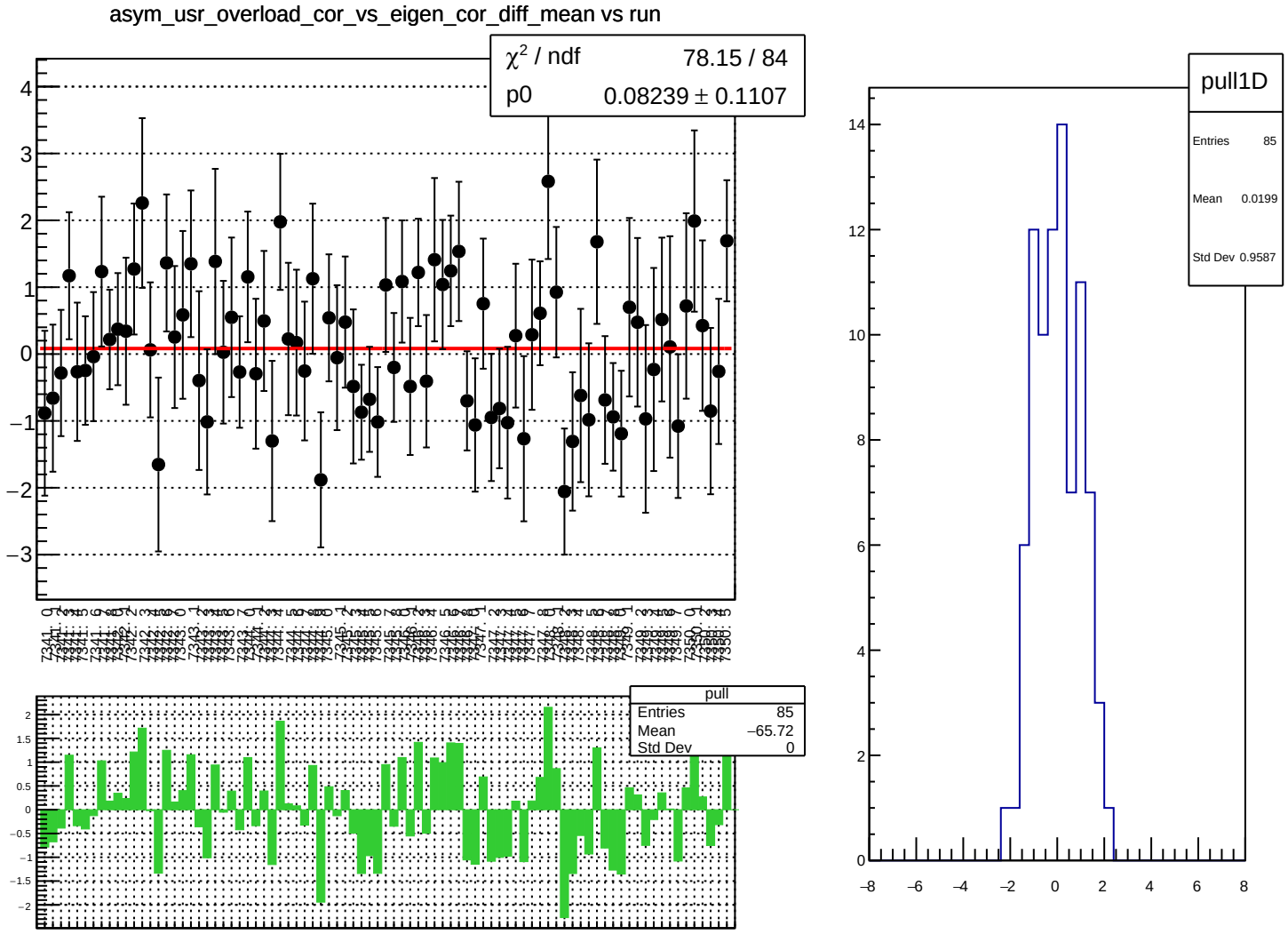

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.58 / 84
p0 4.864e−14 ± 4.279e−14
pull
Entries 85
Mean 0.152
Std Dev 0

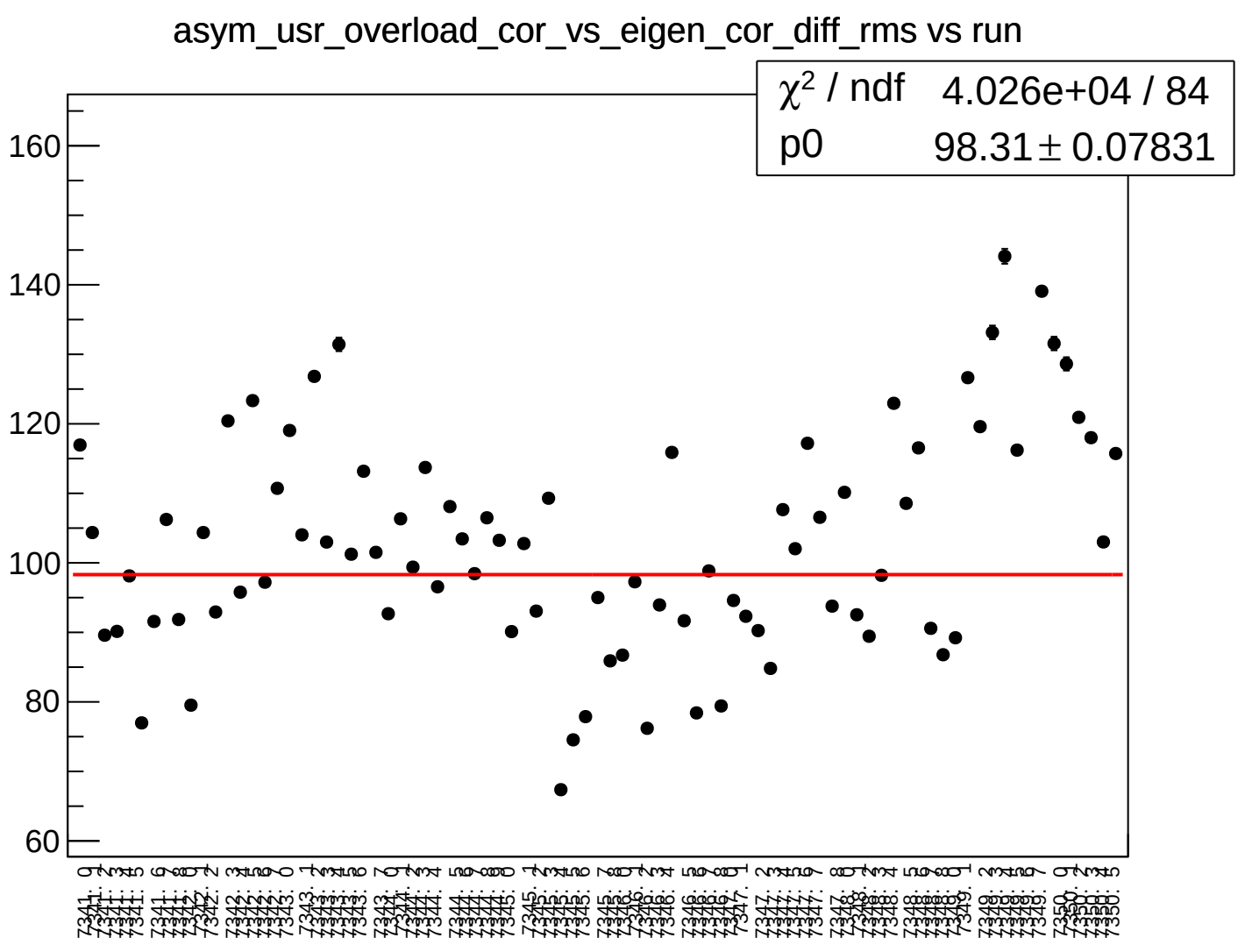

pull1D
Entries 85
Mean 0.007091
Std Dev 0.8301

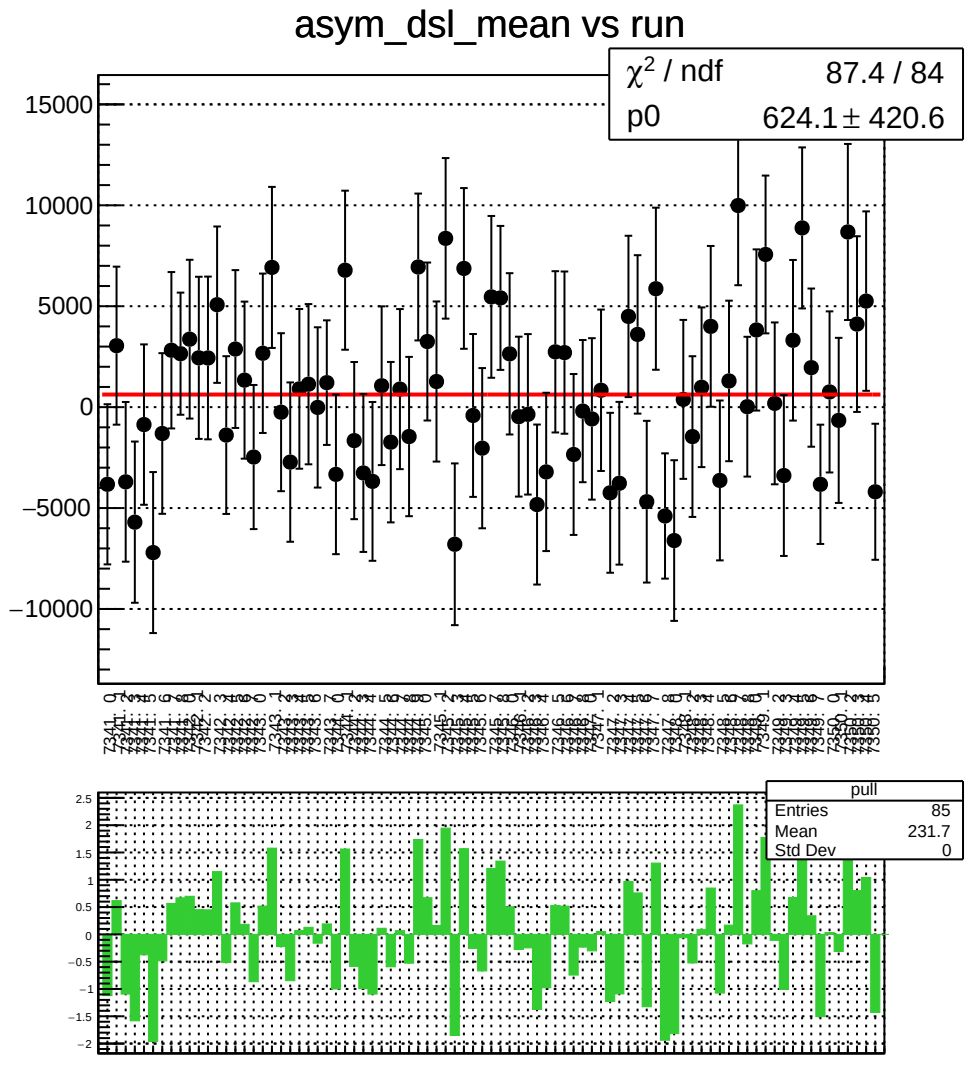

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.895e+05 / 84
p0 3.351e−11 ± 3.026e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

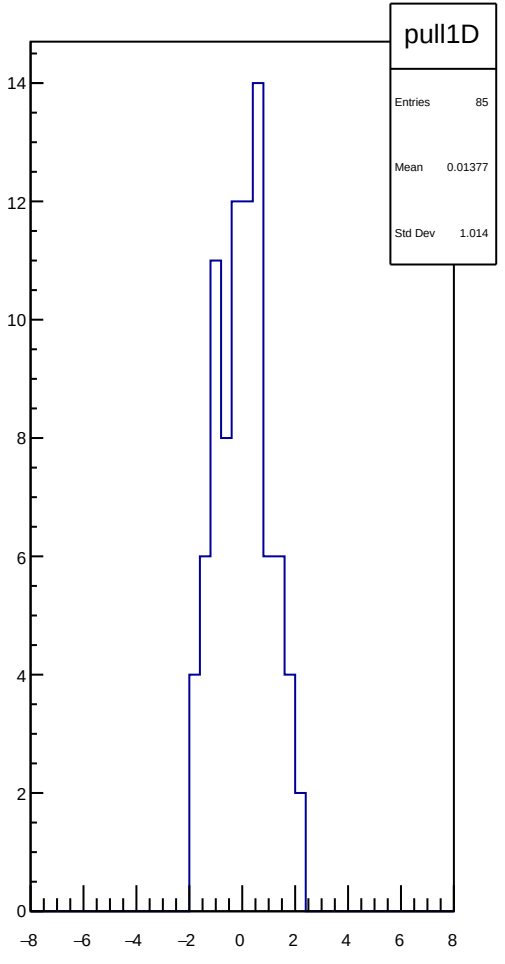

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 78.15 / 84
p0 0.08239 ± 0.1107
pull
Entries 85
Mean −65.72
Std Dev 0
pull1D
Entries 85
Mean 0.0199
Std Dev 0.9587

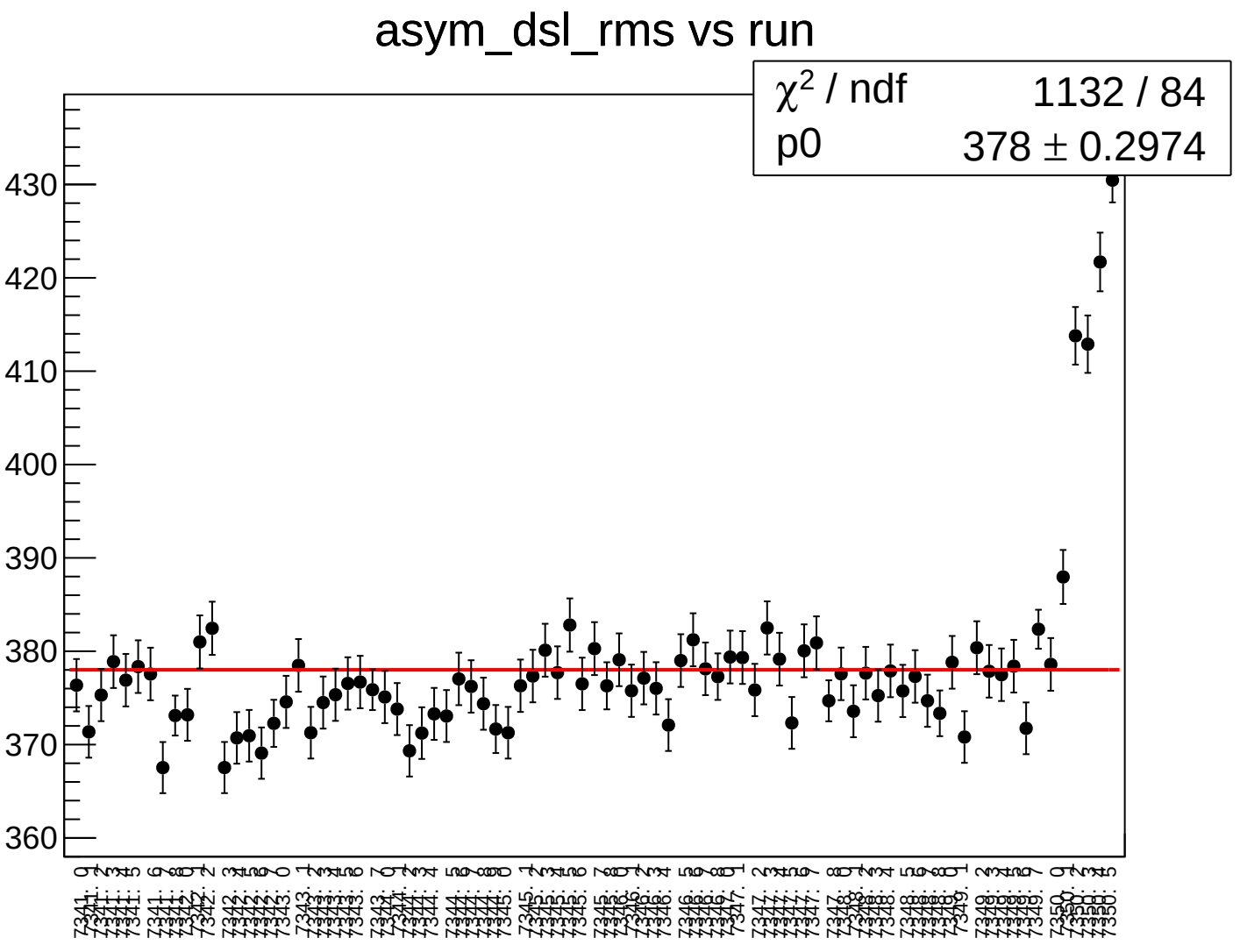

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 4.026e+04 / 84
p0 98.31 ± 0.07831
160
140
120
100
80
60

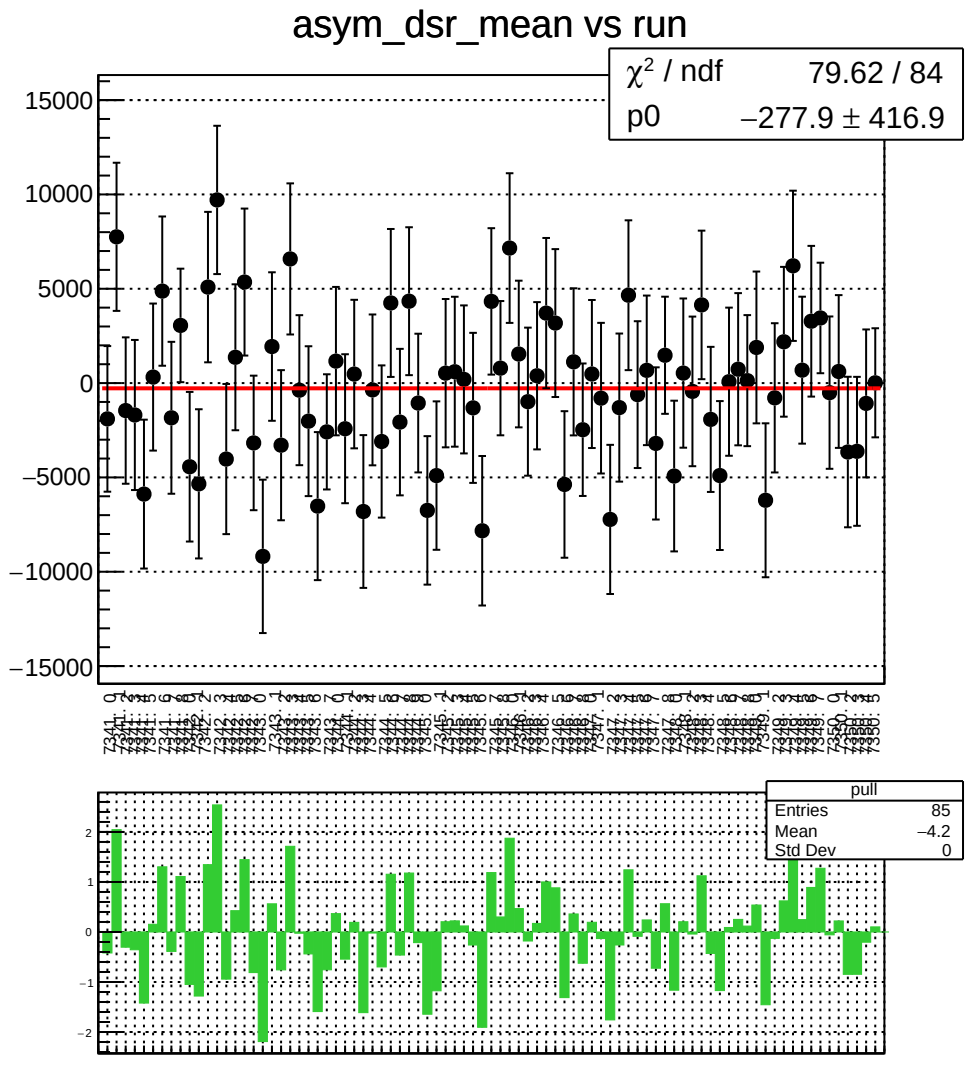

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.15 / 84
p0 0.08239 ± 0.1107
pull
Entries 85
Mean −65.72
Std Dev 0
pull1D
Entries 85
Mean 0.0199
Std Dev 0.9587

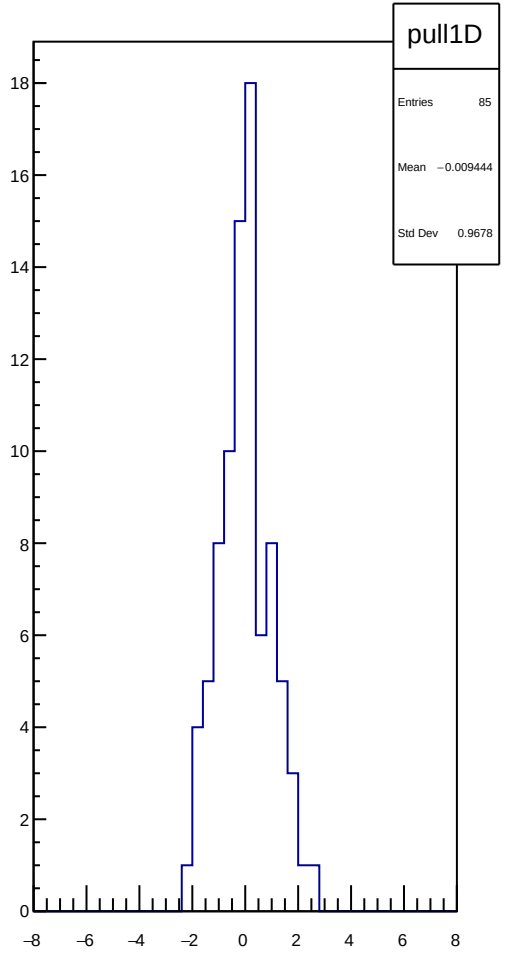

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.026e+04 / 84
p0 98.31 ± 0.07831
160
140
120
100
80
60

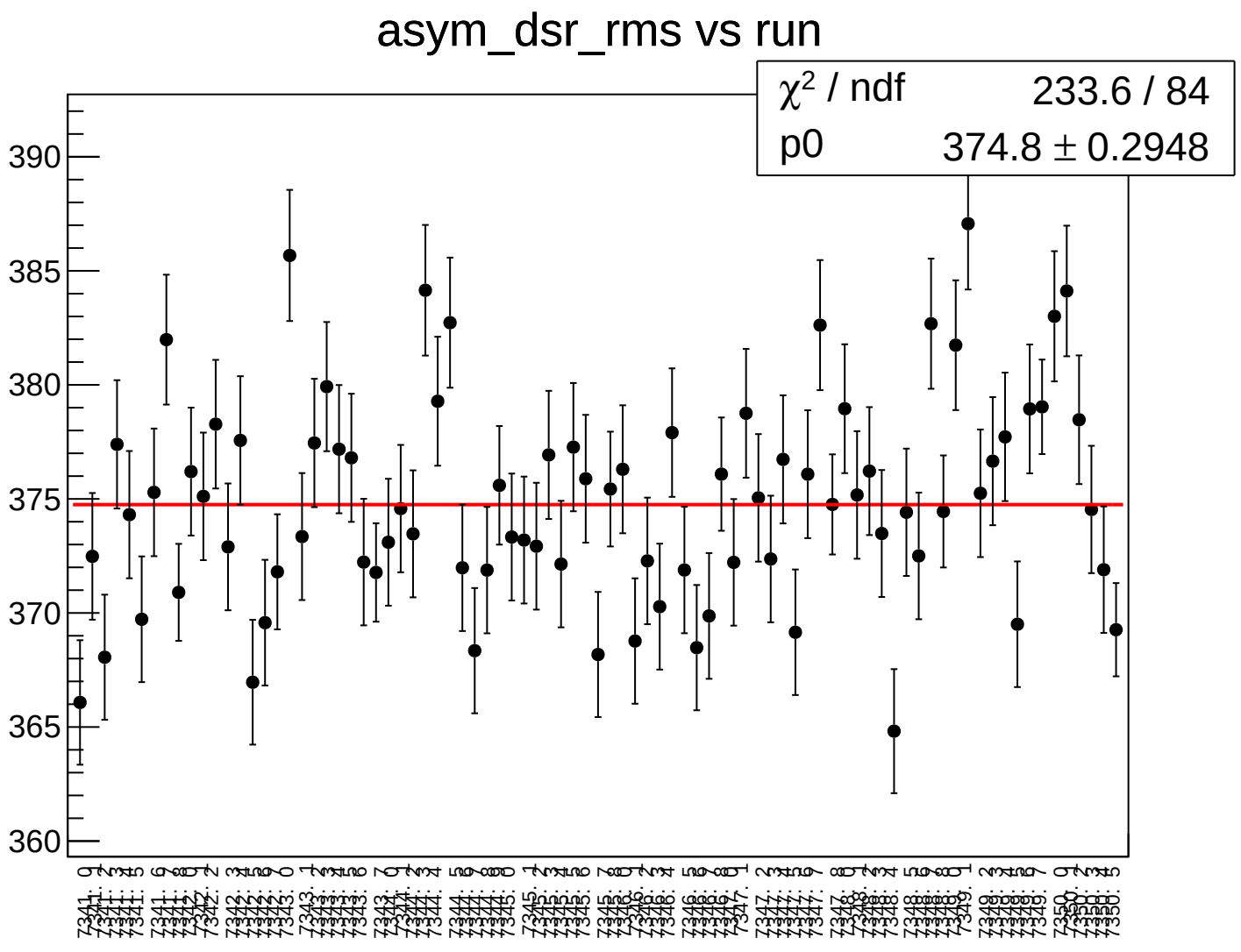

asym_dsl_mean vs run
χ² / ndf 87.4 / 84
p0 624.1 ± 420.6
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 231.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

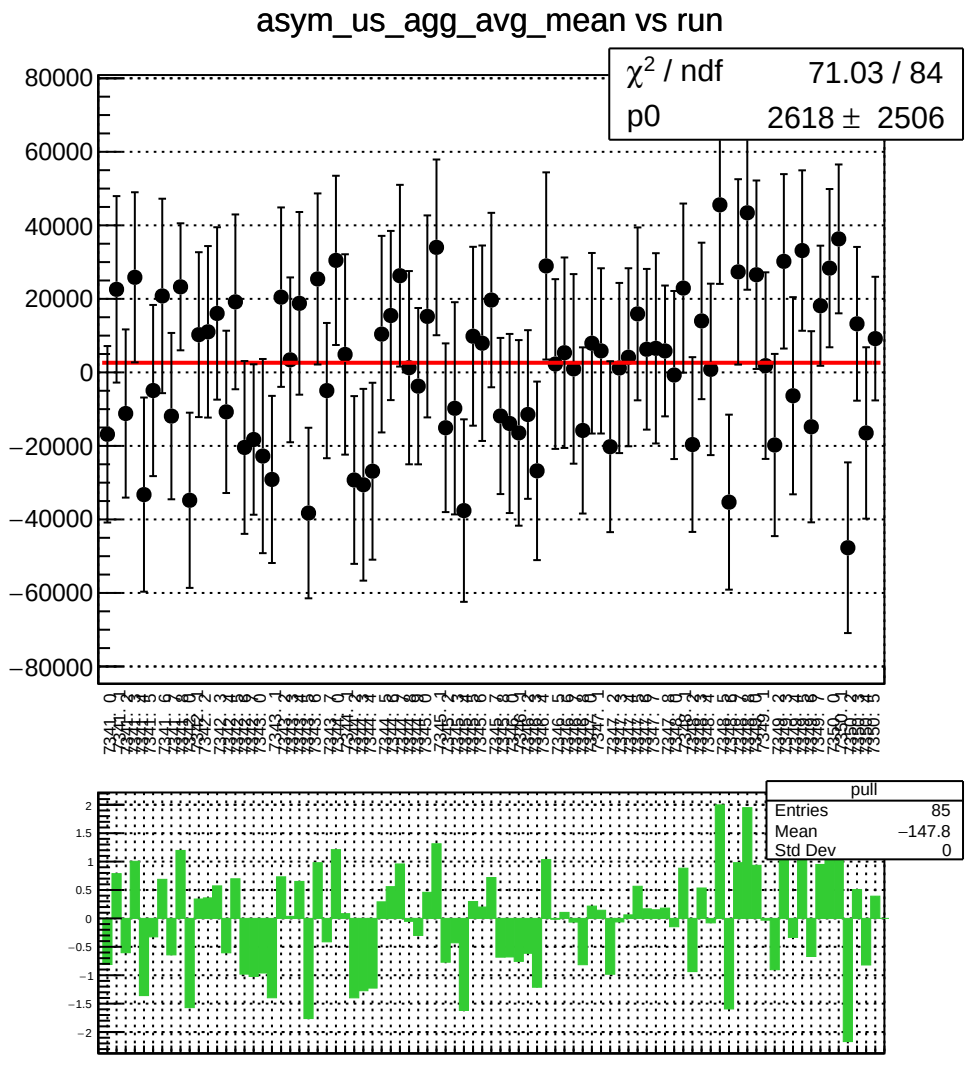

pull1D
Entries 85
Mean 0.01377
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

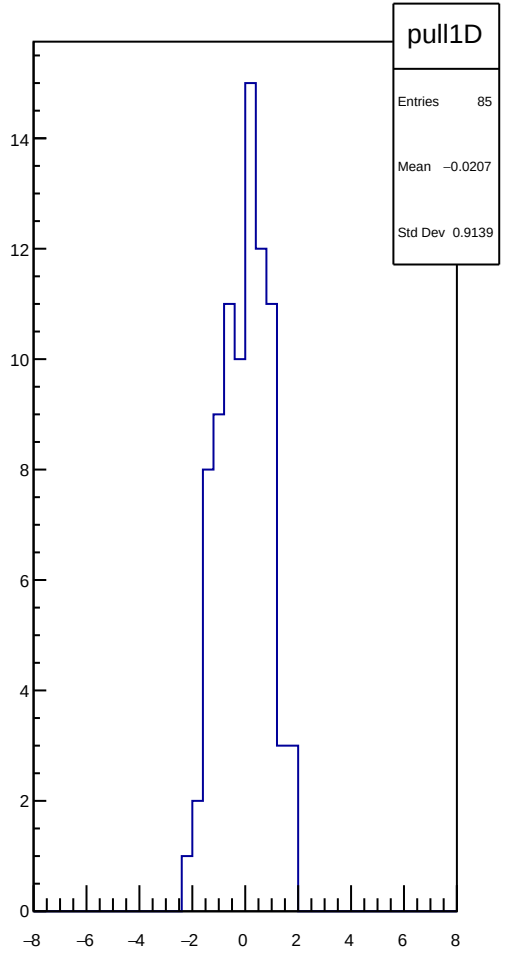

asym_dsl_rms vs run
χ^2 / ndf 1132 / 84
p0 378 ± 0.2974
430
420
410
400
390
380
370
360

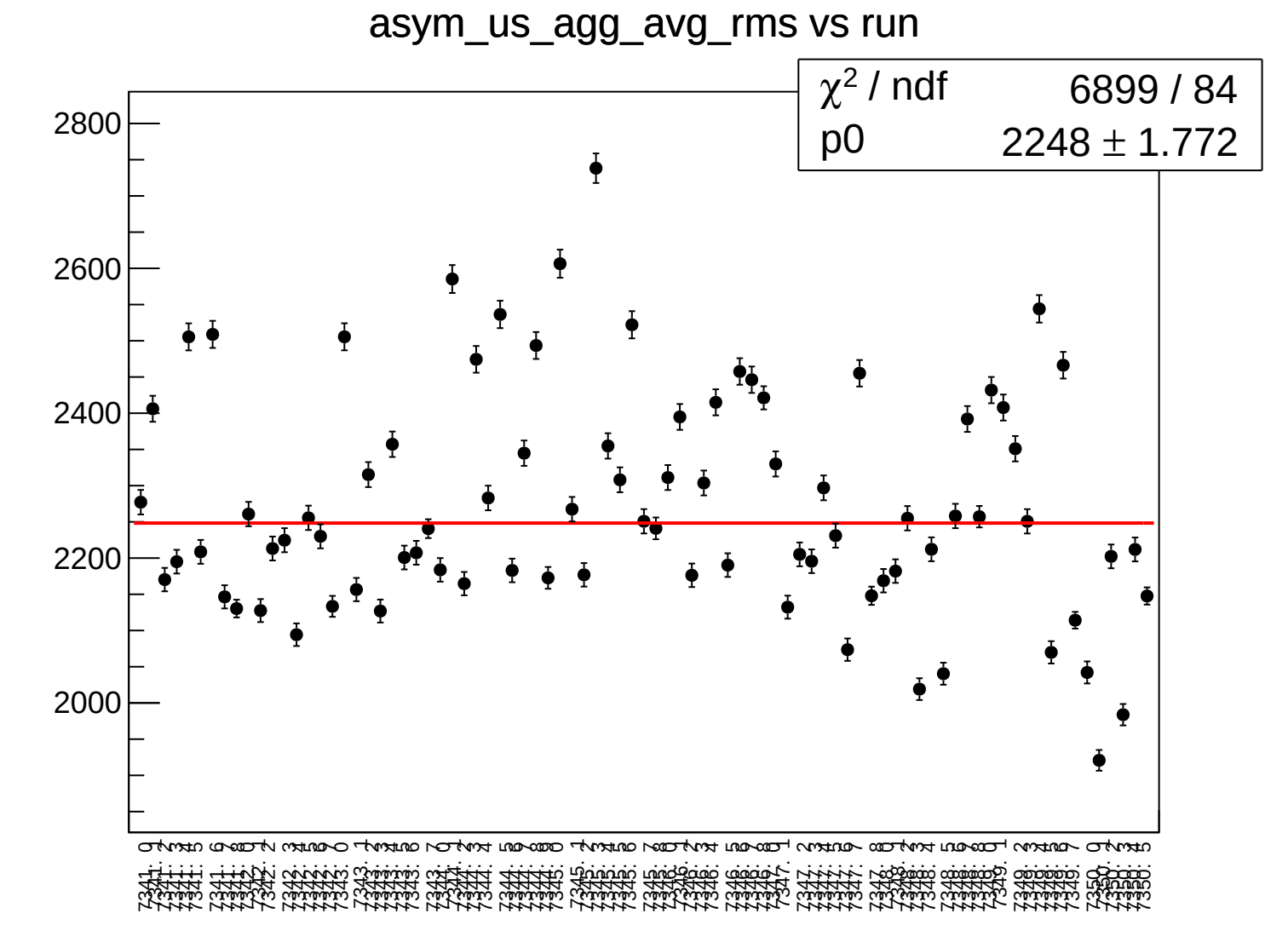

asym_dsr_mean vs run
χ² / ndf 79.62 / 84
p0 −277.9 ± 416.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −4.2
Std Dev 0
2
1
0
−1
−2

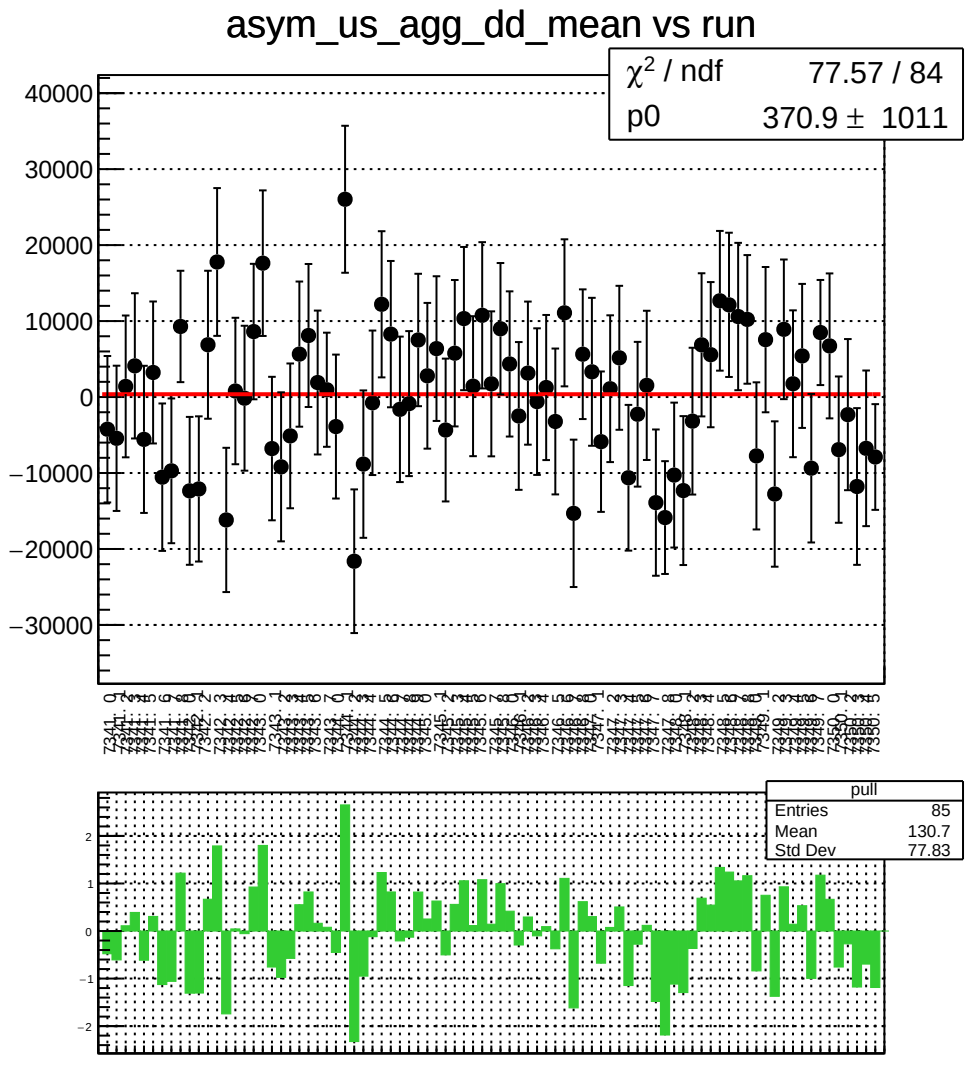

pull1D
Entries 85
Mean −0.009444
Std Dev 0.9678
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

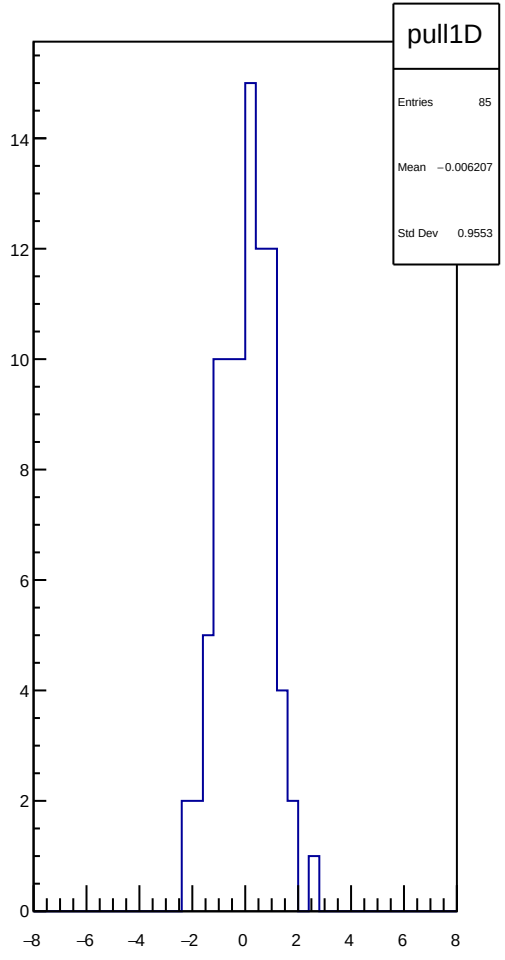

asym_dsr_rms vs run
χ^2 / ndf 233.6 / 84
p0 374.8 ± 0.2948
390
385
380
375
370
365
360

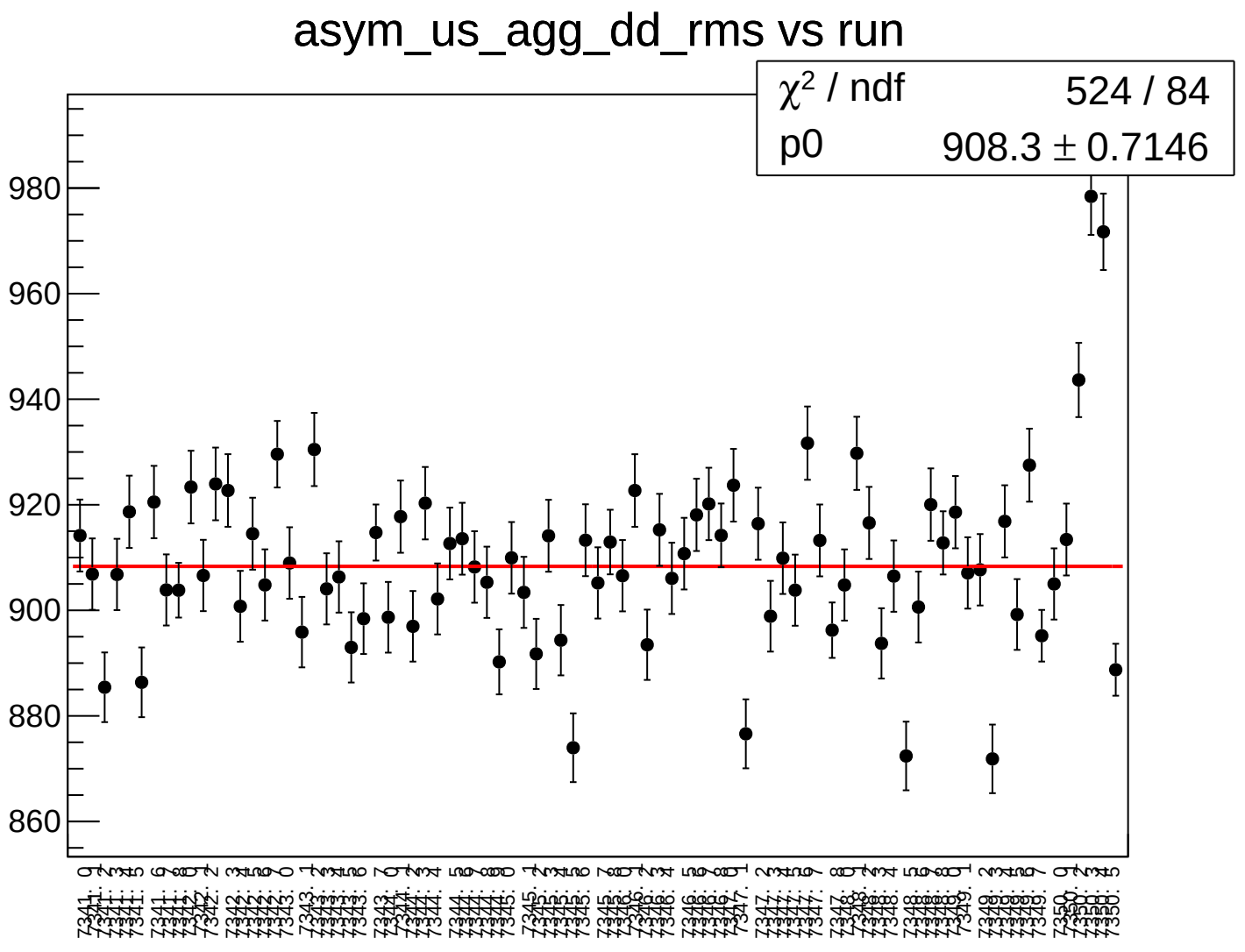

asym_us_agg_avg_mean vs run
χ² / ndf 71.03 / 84
p0 2618 ± 2506
pull
Entries 85
Mean −147.8
Std Dev 0

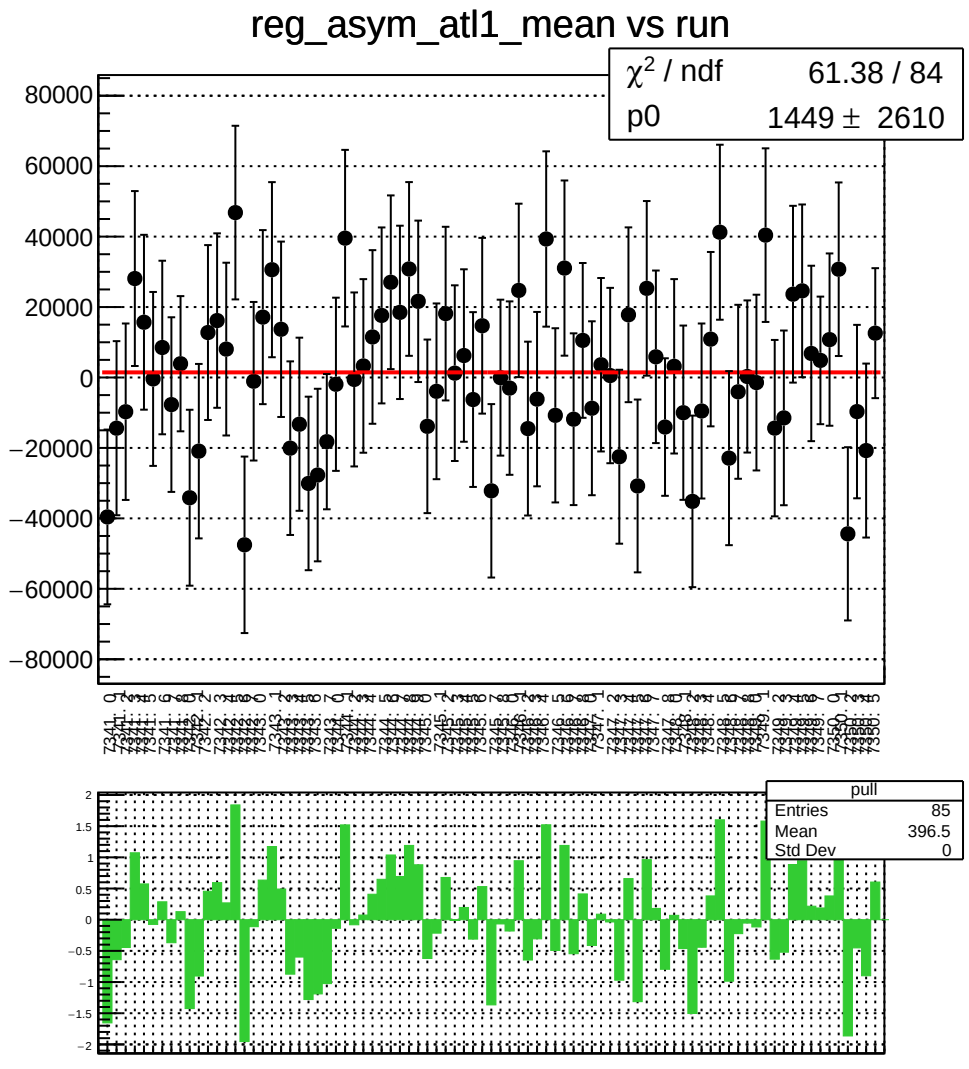

pull1D
Entries 85
Mean −0.0207
Std Dev 0.9139

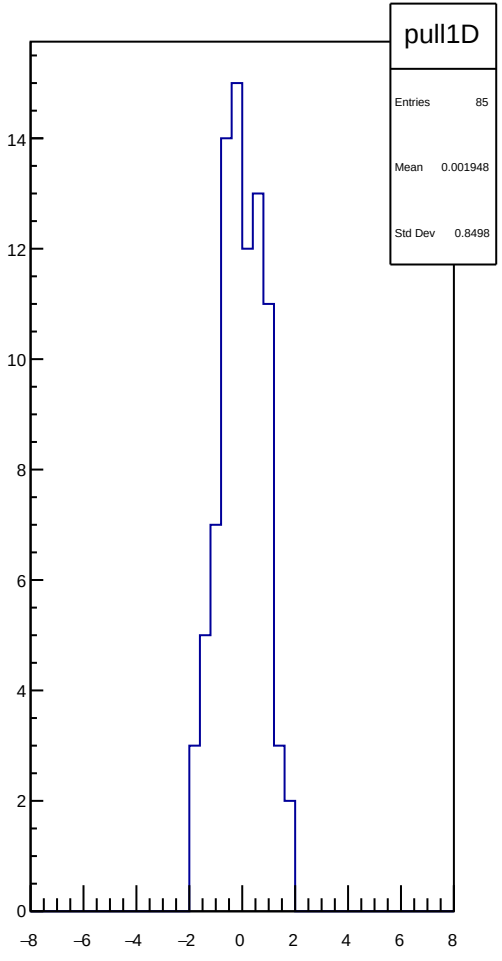

asym_us_agg_avg_rms vs run
χ² / ndf 6899 / 84
p0 2248 ± 1.772
2800
2600
2400
2200
2000

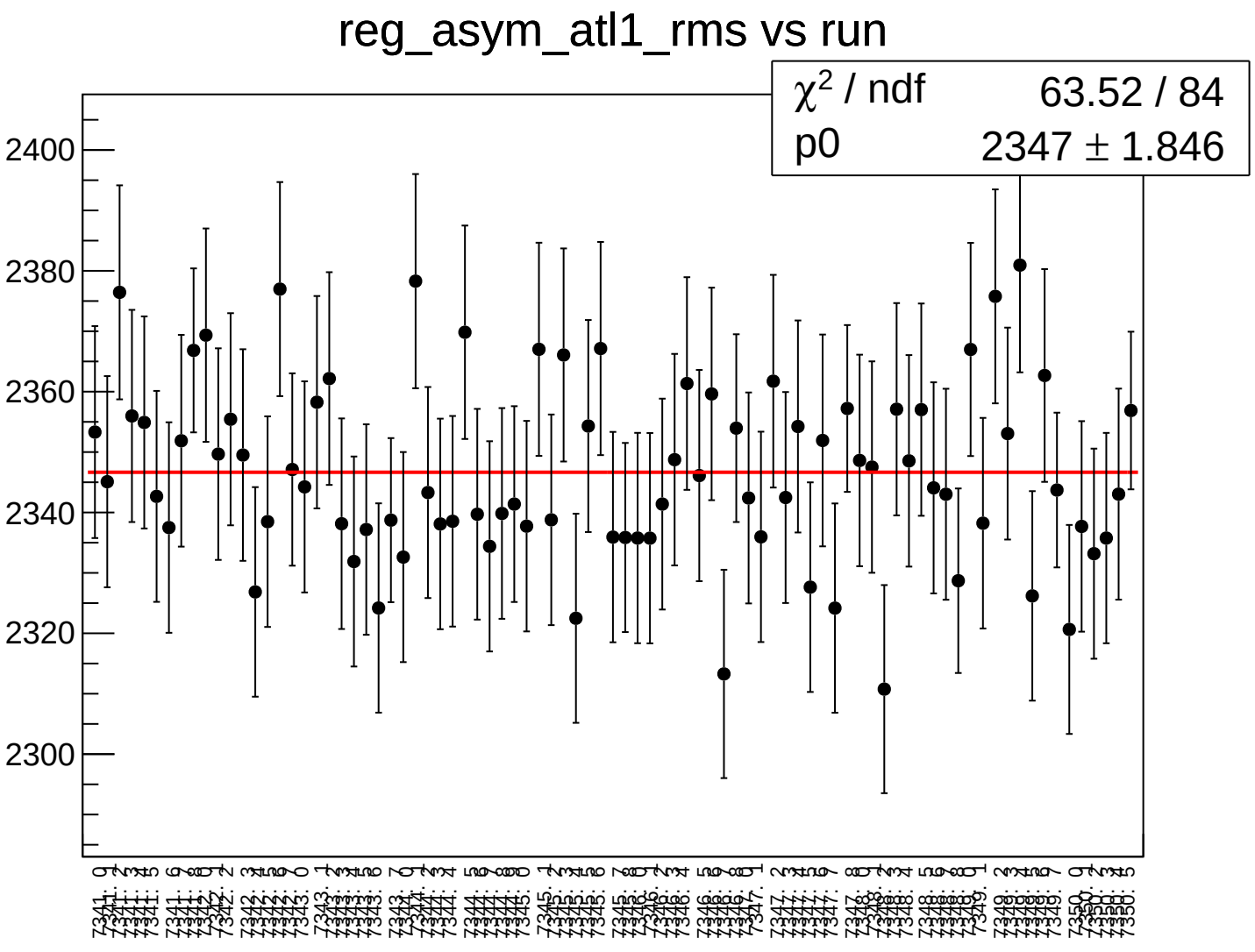

asym_us_agg_dd_mean vs run
χ² / ndf 77.57 / 84
p0 370.9 ± 1011
pull
Entries 85
Mean 130.7
Std Dev 77.83

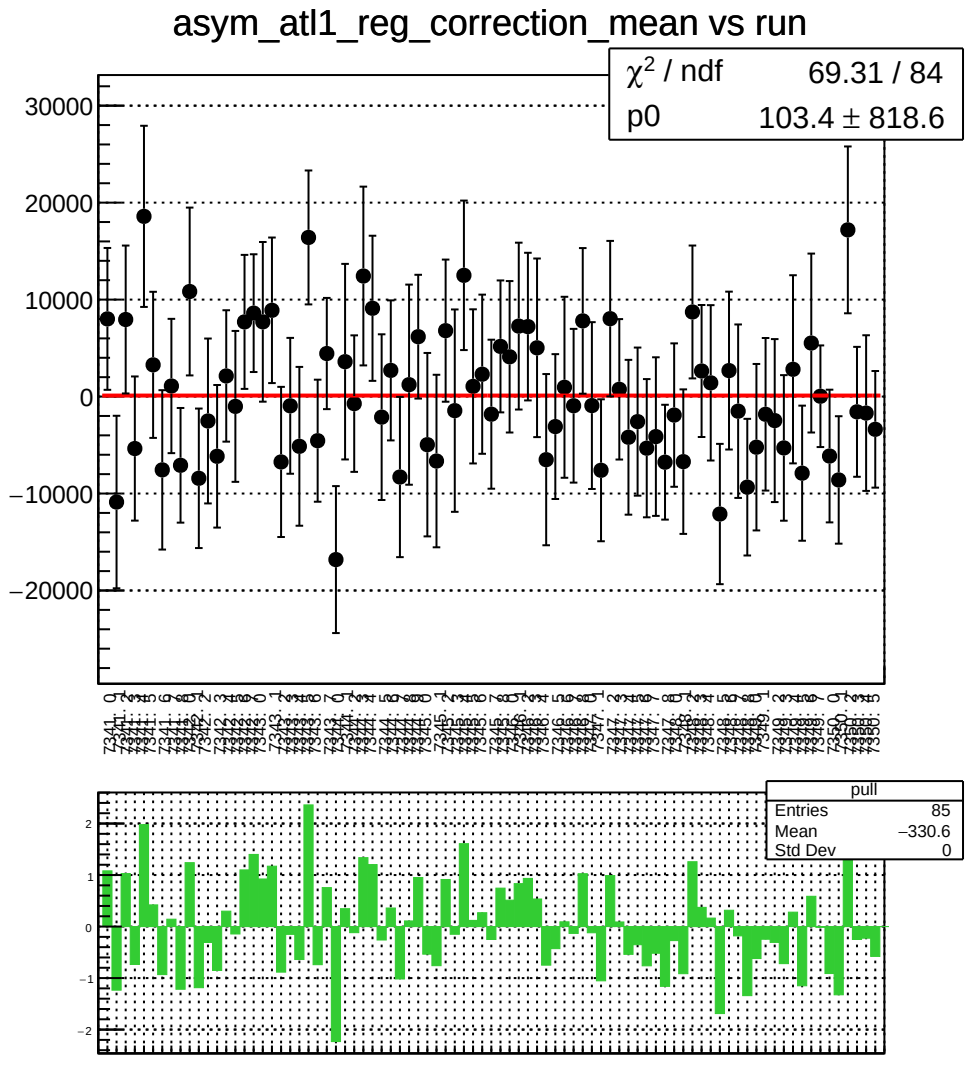

pull1D
Entries 85
Mean −0.006207
Std Dev 0.9553

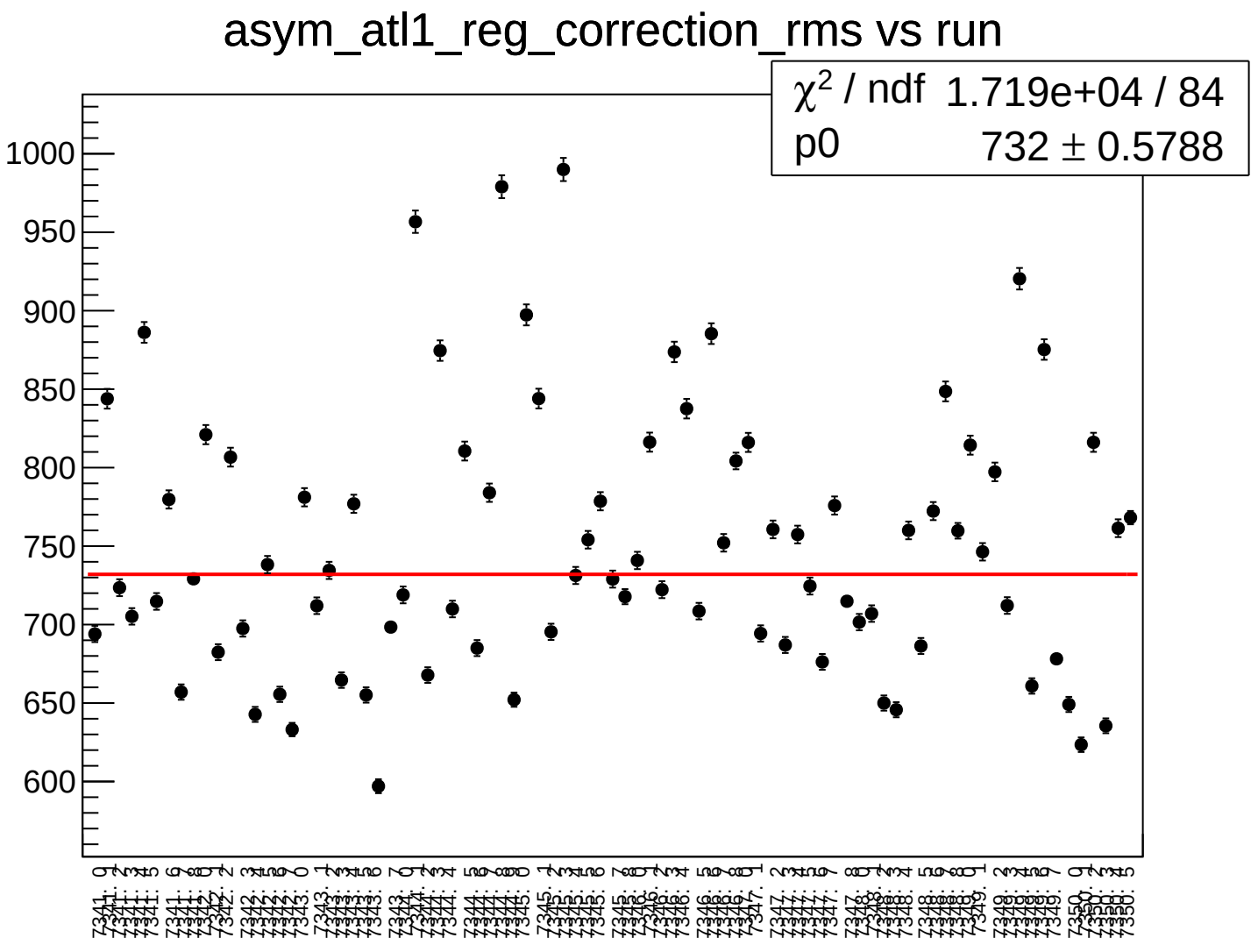

asym_us_agg_dd_rms vs run
χ^2 / ndf 524 / 84
p0 908.3 ± 0.7146
980
960
940
920
900
880
860

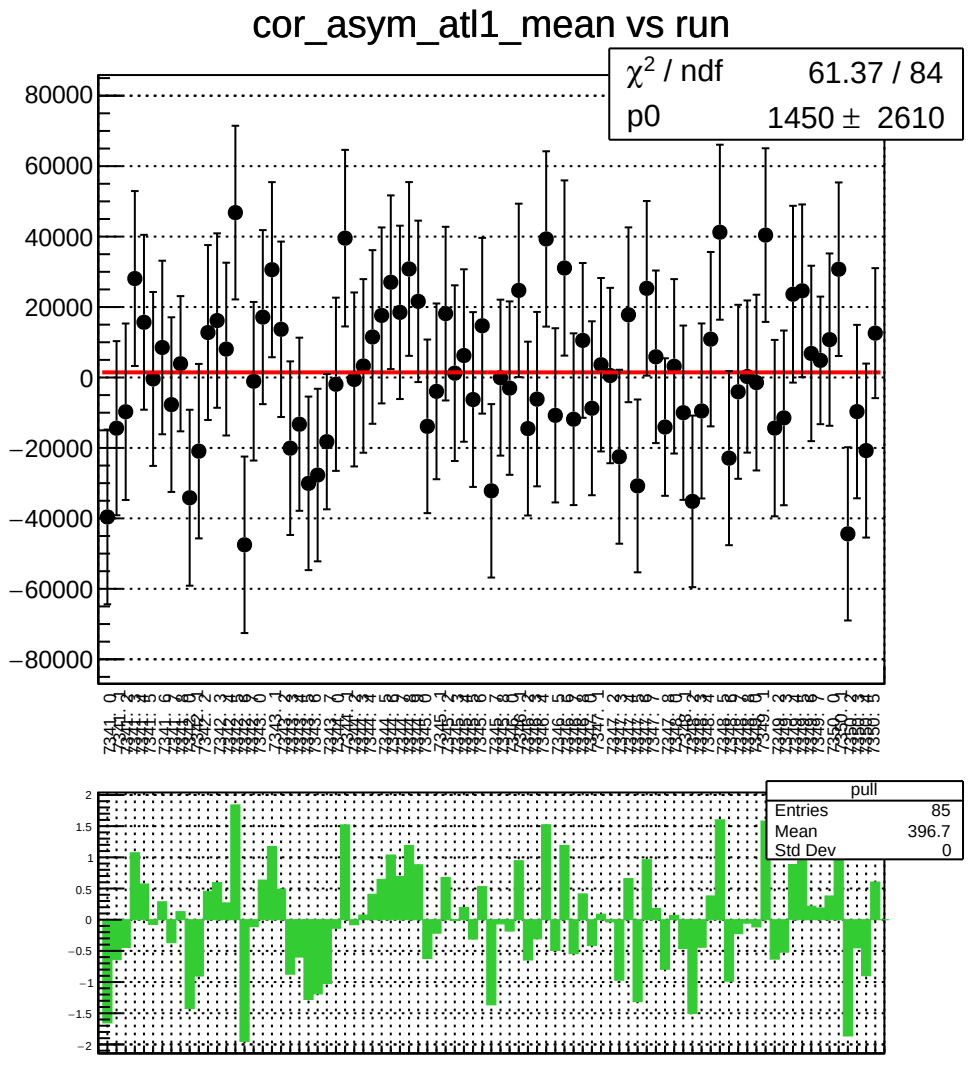

reg_asym_atl1_mean vs run
χ² / ndf 61.38 / 84
p0 1449 ± 2610
pull
Entries 85
Mean 396.5
Std Dev 0

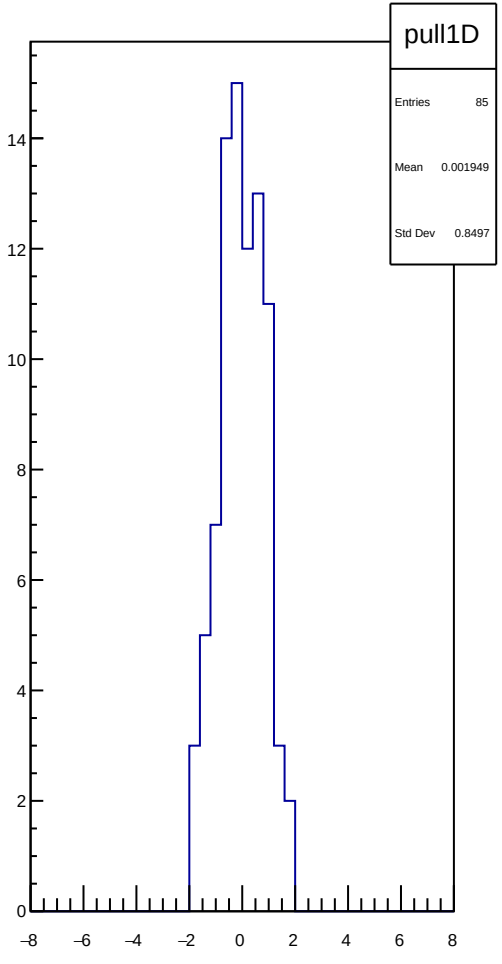

pull1D
Entries 85
Mean 0.001948
Std Dev 0.8498

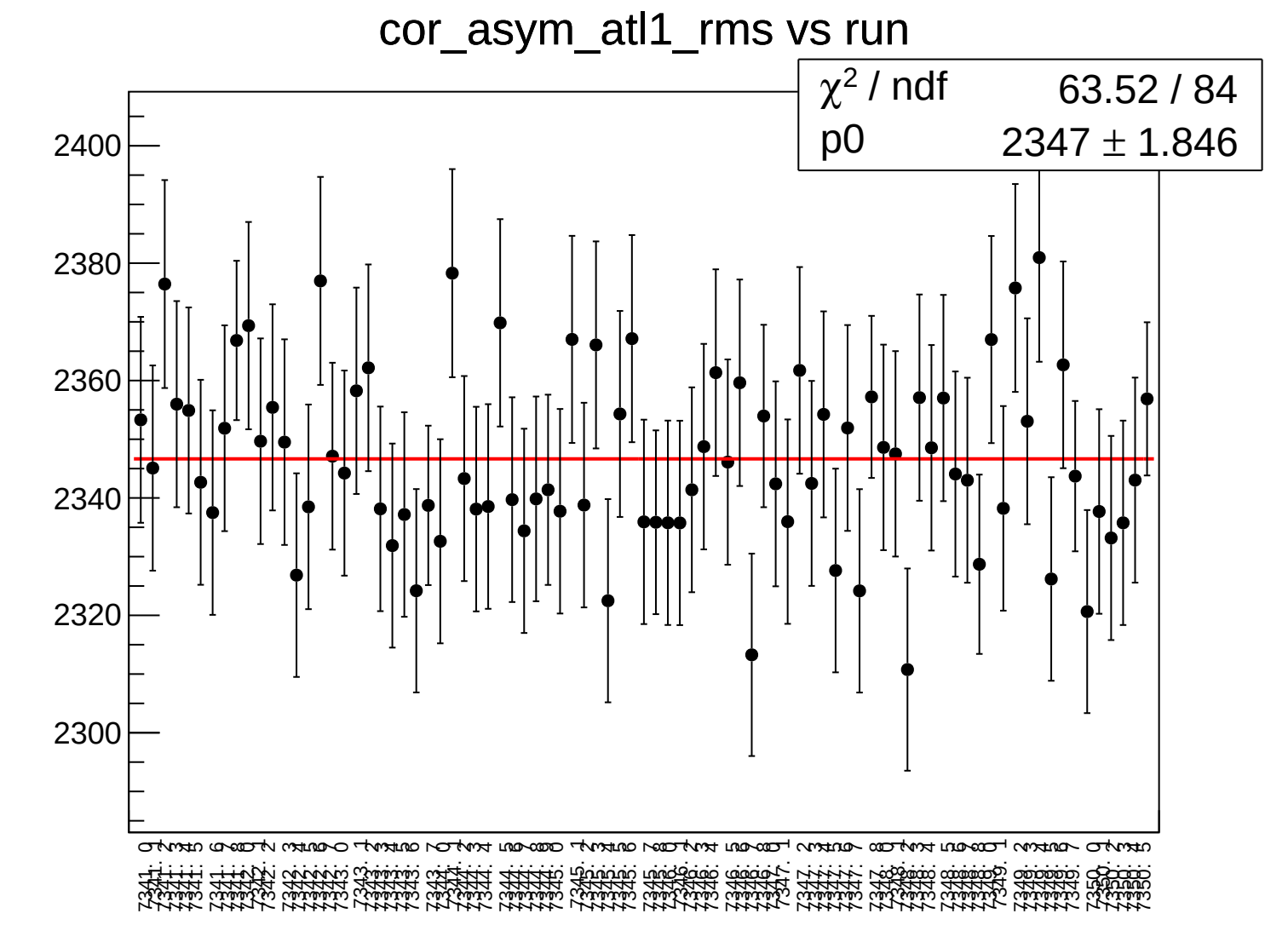

reg_asym_atl1_rms vs run
χ² / ndf 63.52 / 84
p0 2347 ± 1.846
2400
2380
2360
2340
2320
2300

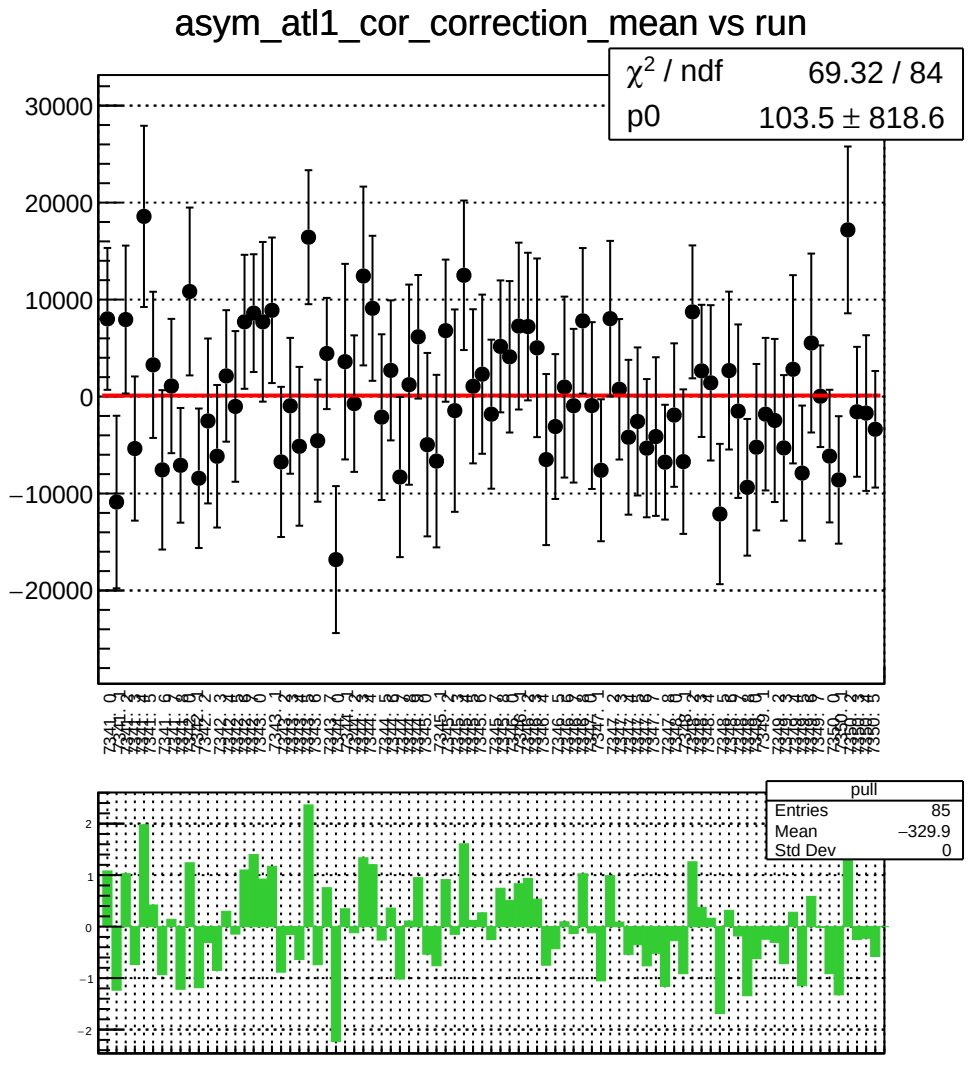

asym_atl1_reg_correction_mean vs run
χ² / ndf 69.31 / 84
p0 103.4 ± 818.6
pull
Entries 85
Mean −330.6
Std Dev 0
pull1D
Entries 85
Mean 0.01109
Std Dev 0.9029

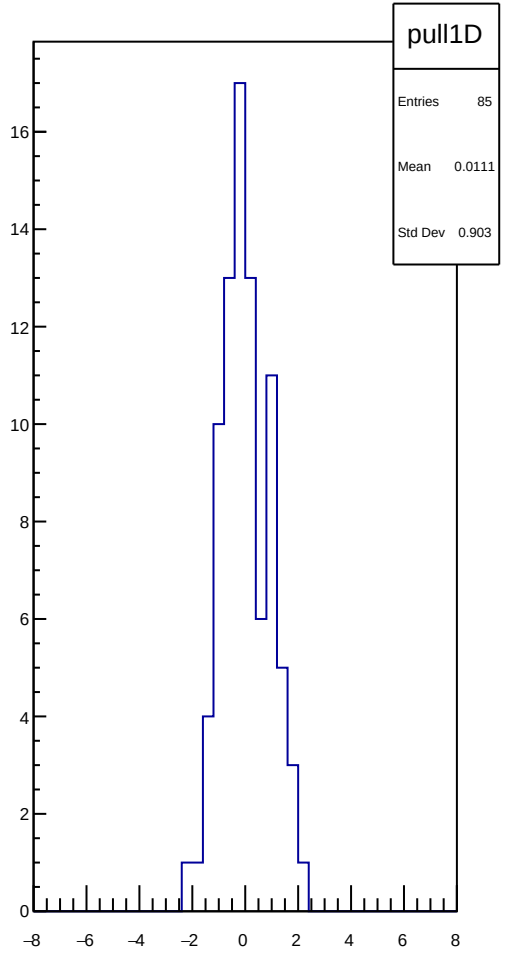

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.719e+04 / 84
p0 732 ± 0.5788
1000
950
900
850
800
750
700
650
600

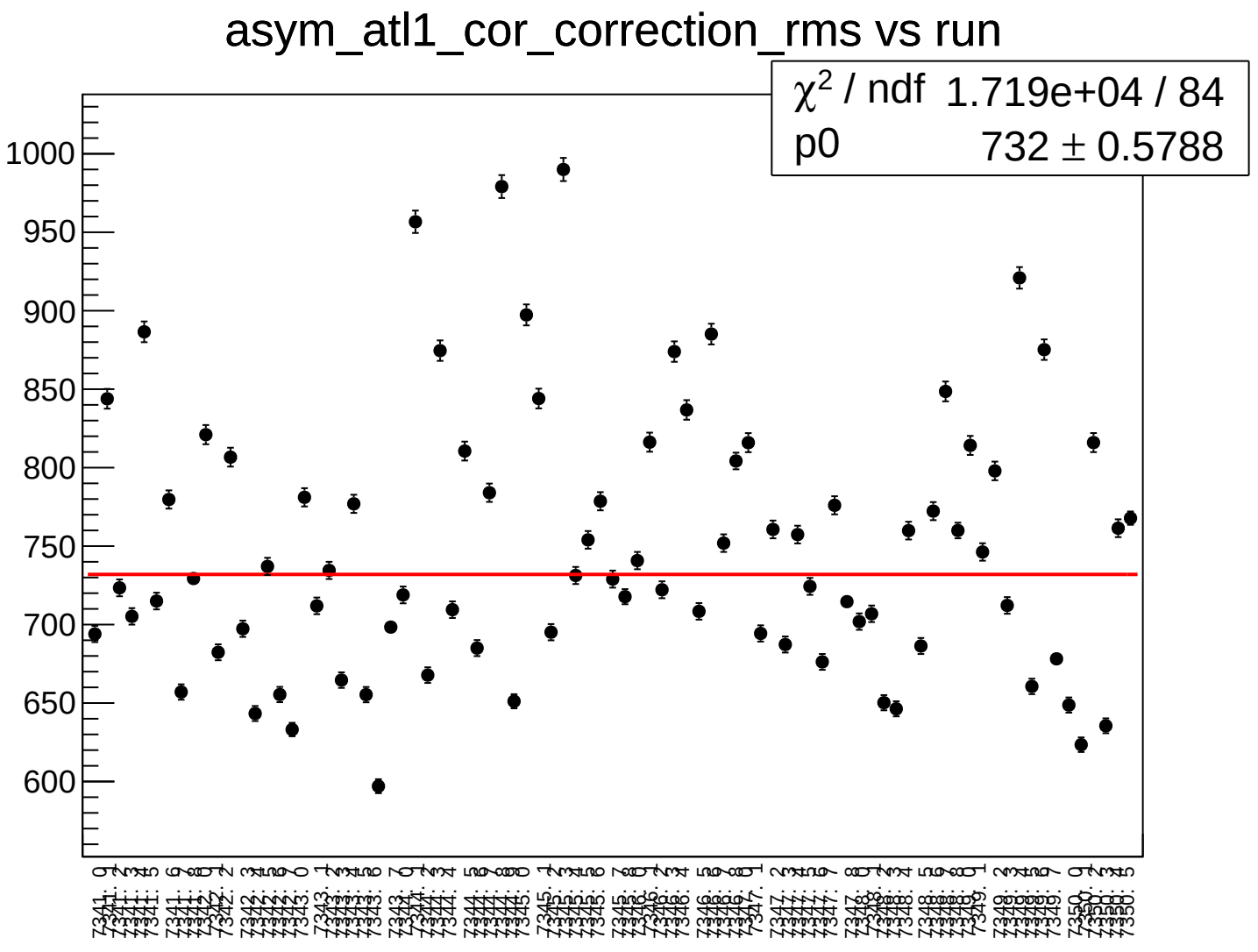

cor_asym_atl1_mean vs run
χ² / ndf 61.37 / 84
p0 1450 ± 2610
pull
Entries 85
Mean 396.7
Std Dev 0

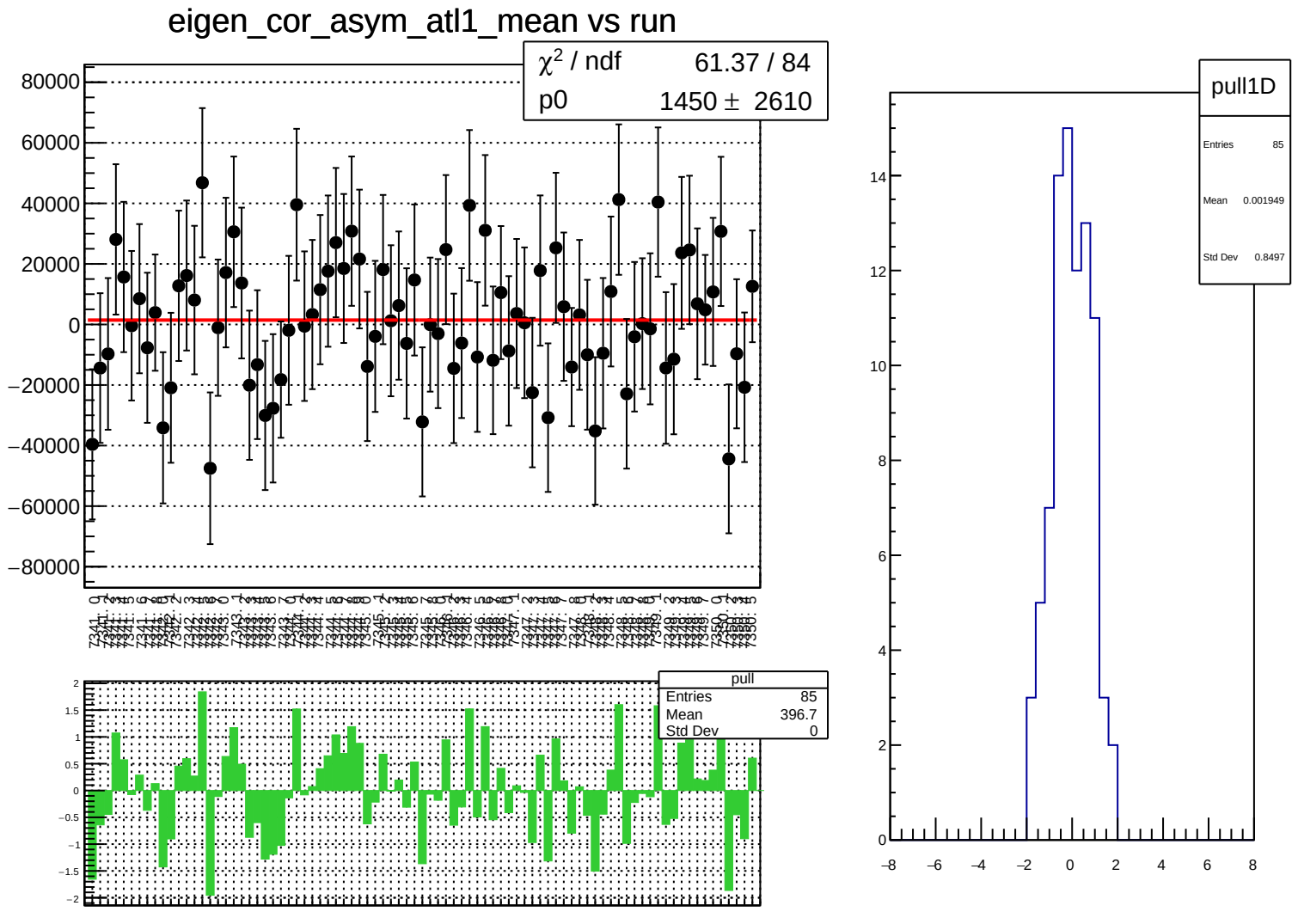

pull1D
Entries 85
Mean 0.001949
Std Dev 0.8497

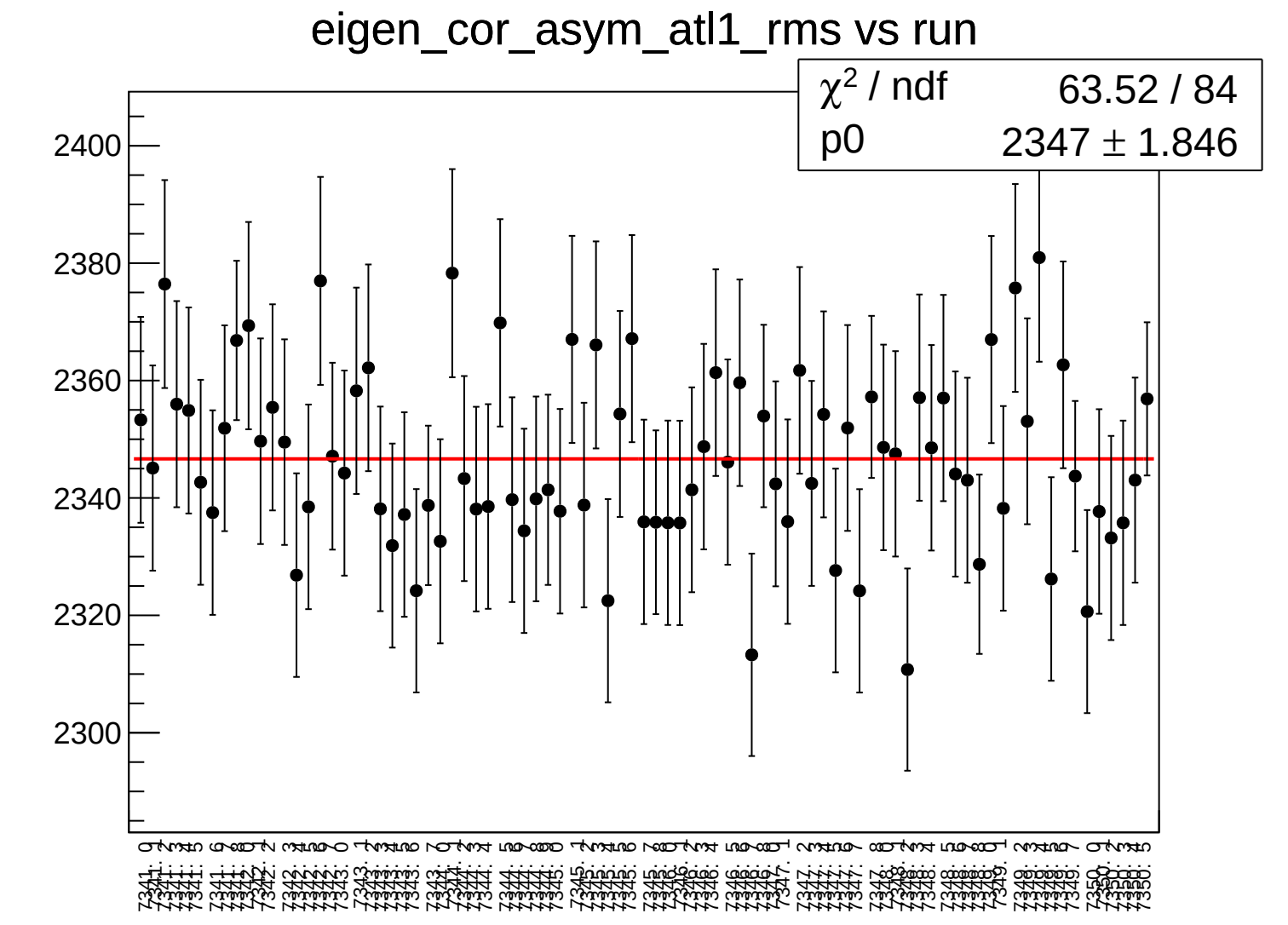

cor_asym_atl1_rms vs run
χ^2 / ndf 63.52 / 84
p0 2347 ± 1.846
2400
2380
2360
2340
2320
2300

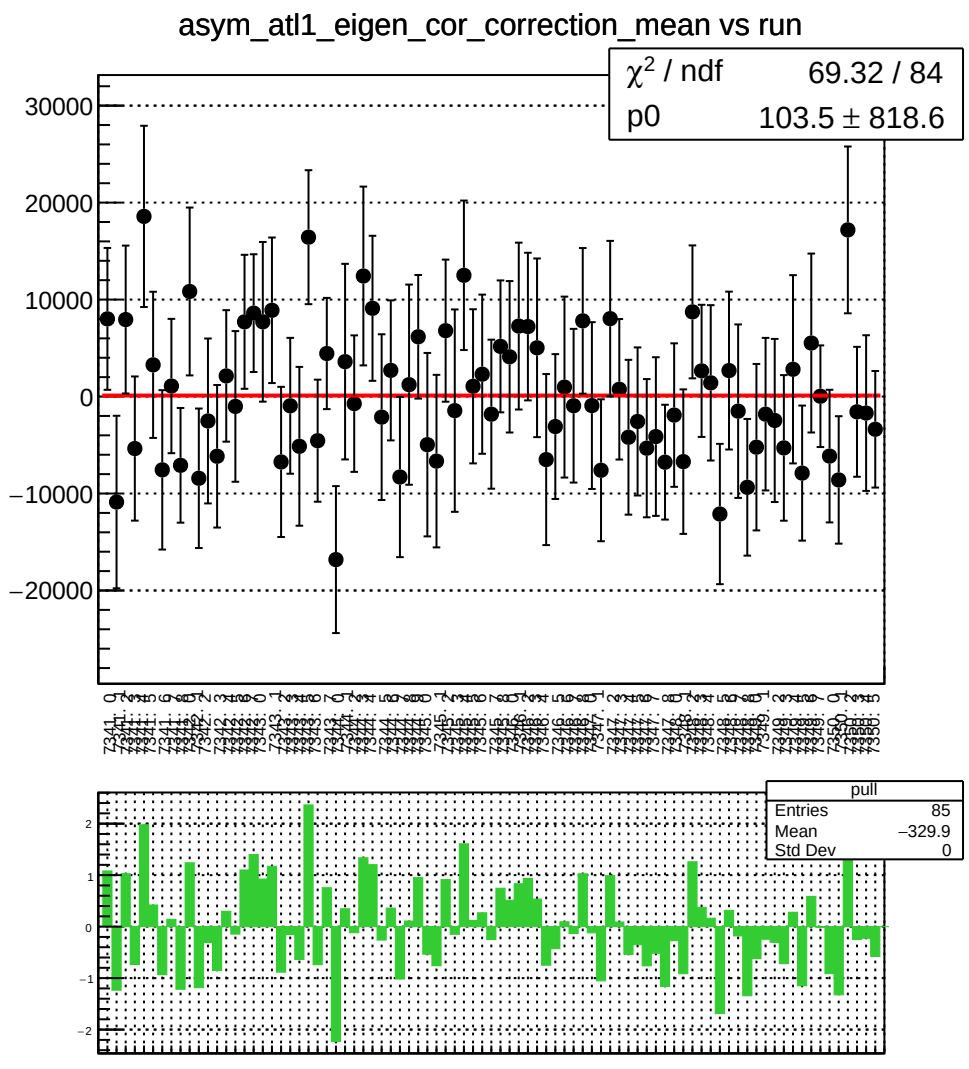

asym_atl1_cor_correction_mean vs run
χ² / ndf 69.32 / 84
p0 103.5 ± 818.6
pull
Entries 85
Mean −329.9
Std Dev 0

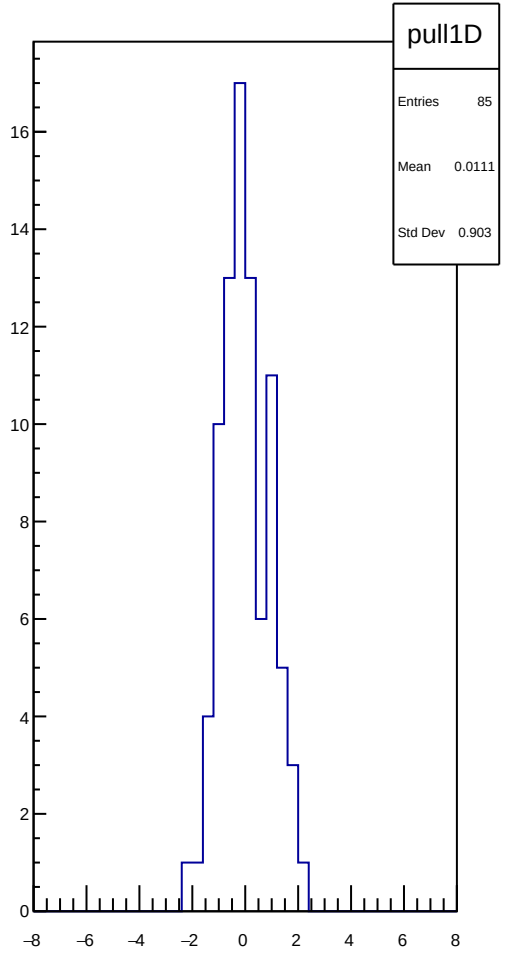

pull1D
Entries 85
Mean 0.0111
Std Dev 0.903

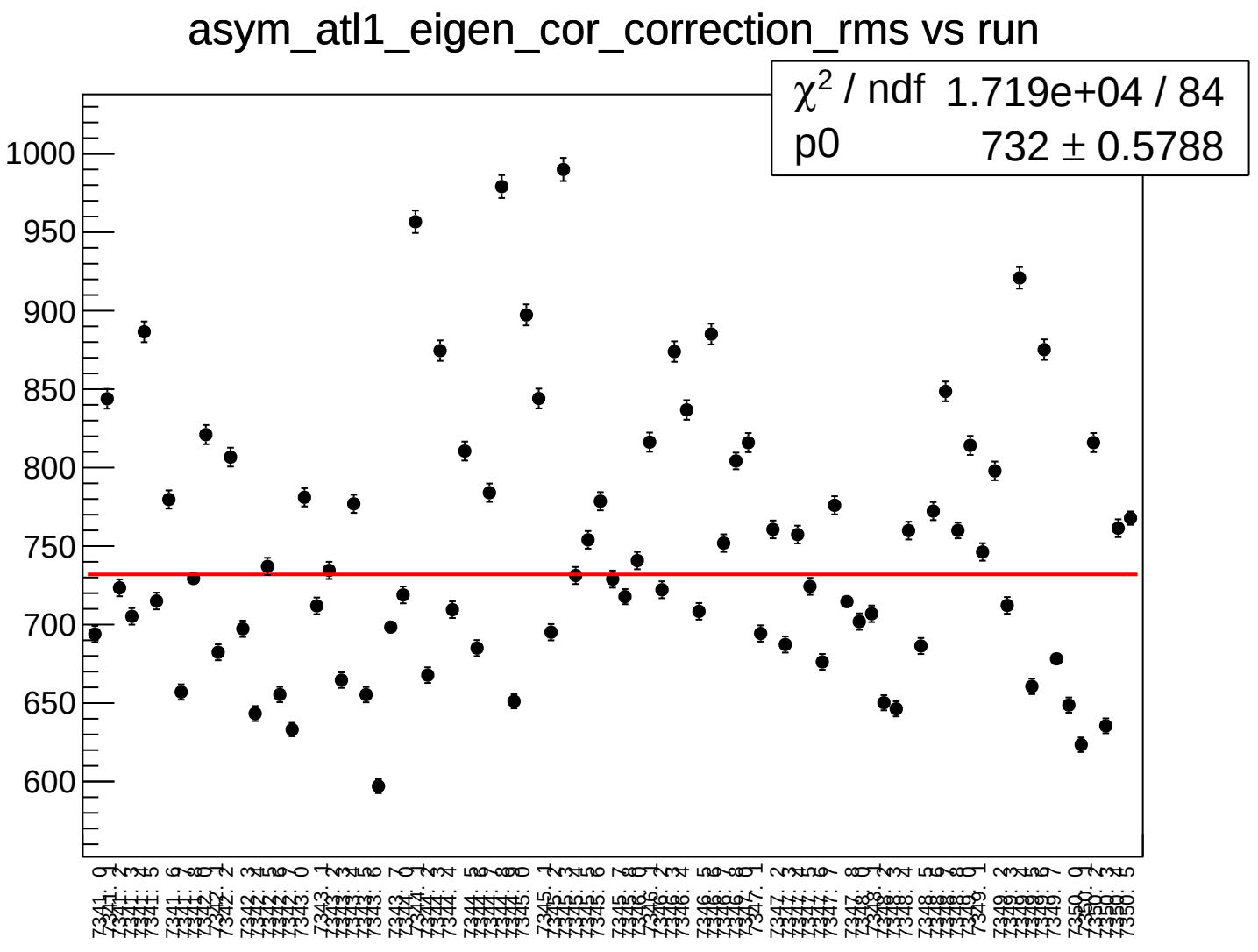

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.719e+04 / 84
p0 732 ± 0.5788
1000
950
900
850
800
750
700
650
600

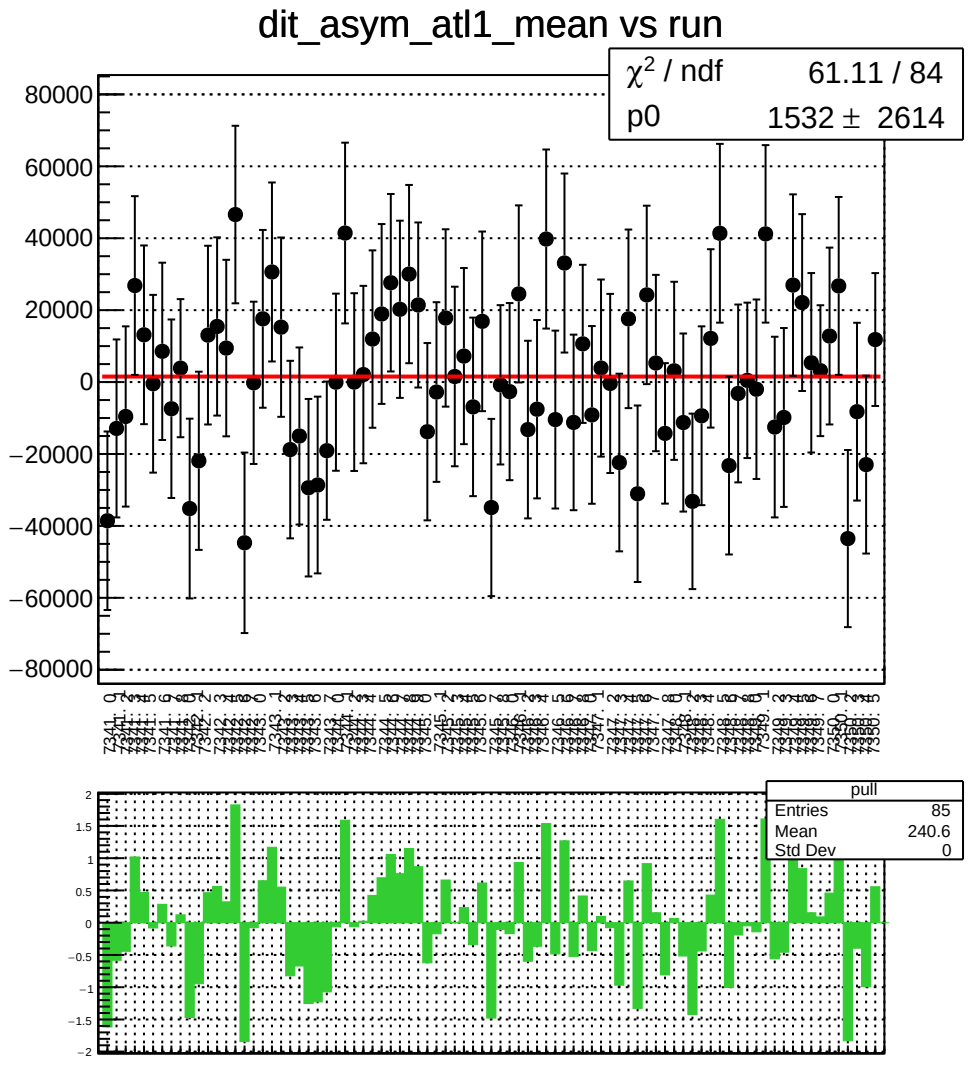

eigen_cor_asym_atl1_mean vs run
χ² / ndf 61.37 / 84
p0 1450 ± 2610
pull
Entries 85
Mean 396.7
Std Dev 0
pull1D
Entries 85
Mean 0.001949
Std Dev 0.8497

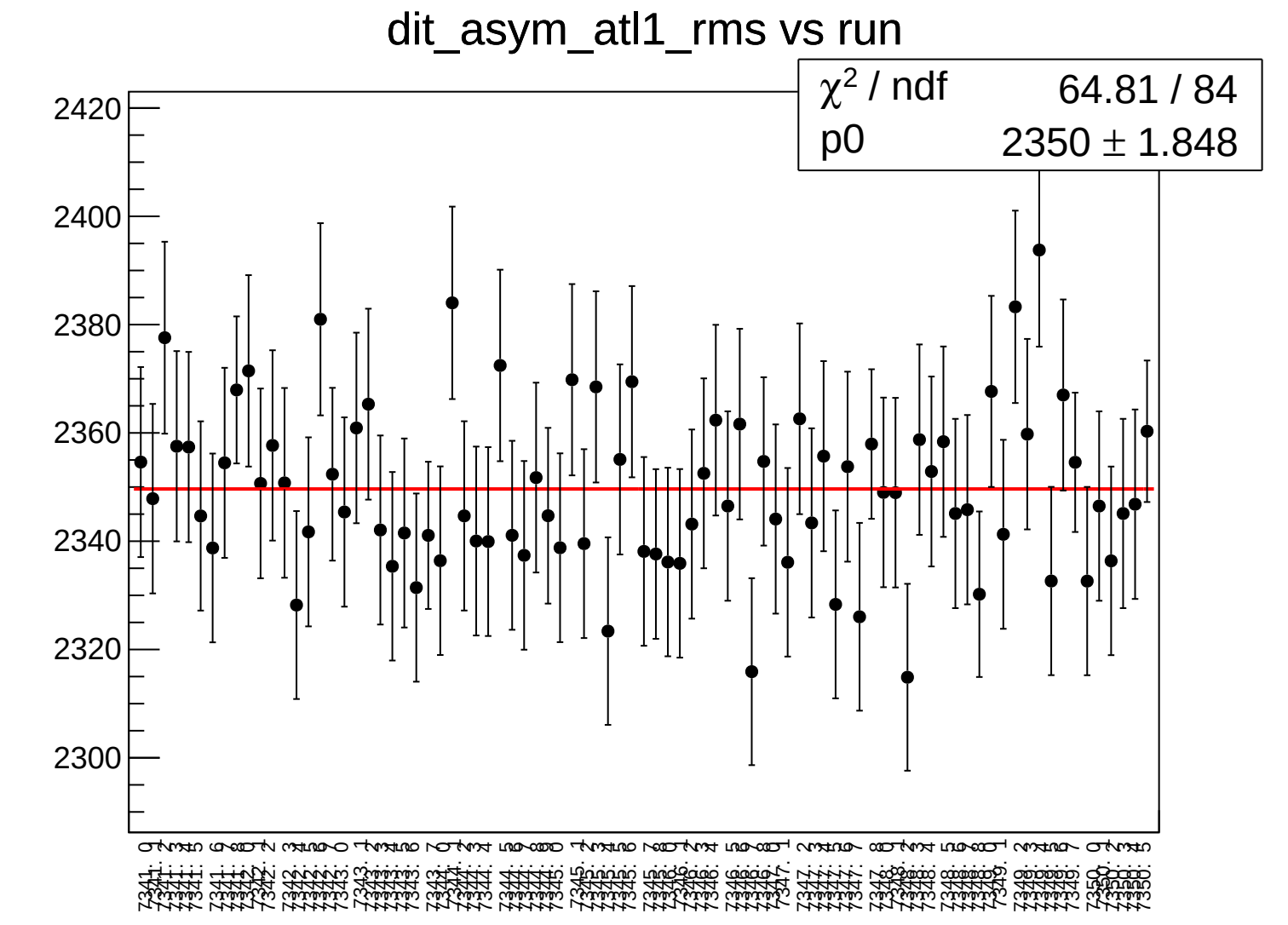

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 63.52 / 84
p0 2347 ± 1.846
2400
2380
2360
2340
2320
2300

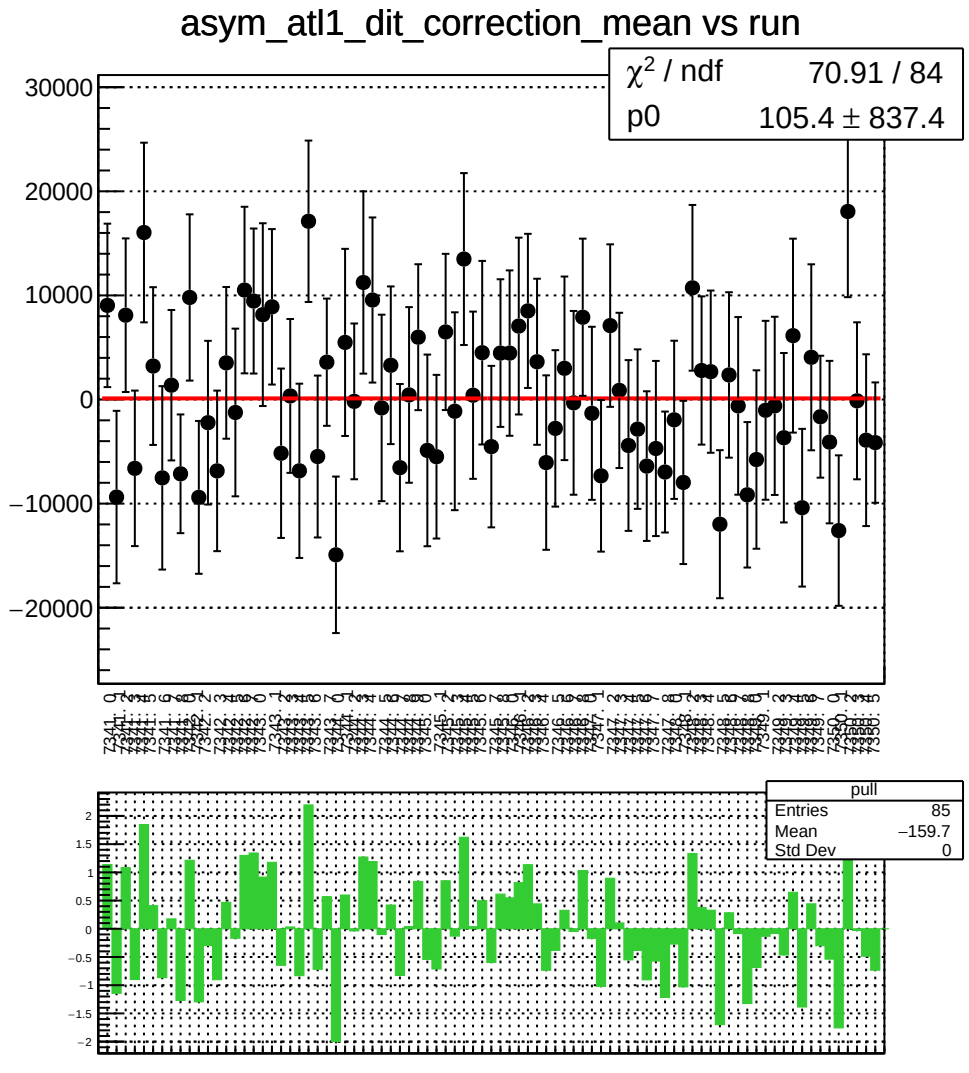

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 69.32 / 84
p0 103.5 ± 818.6
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −329.9
Std Dev 0
2
1
0
−1
−2

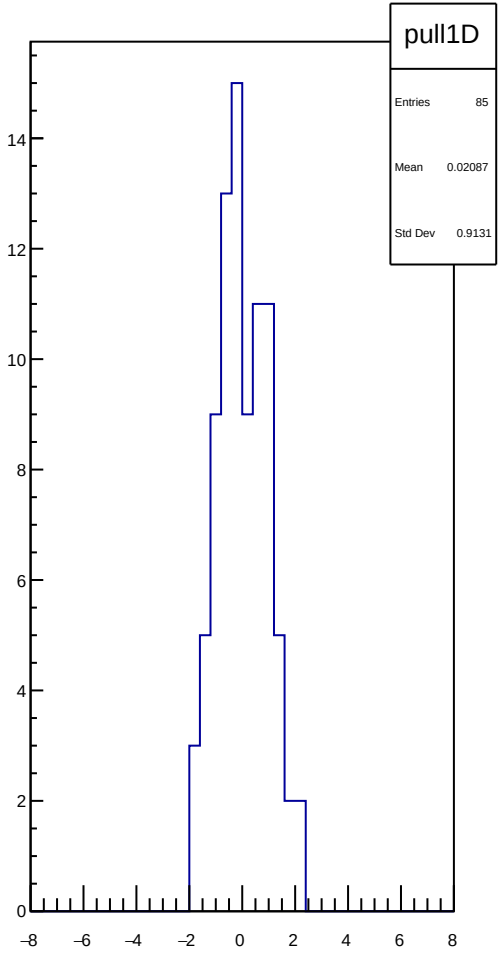

pull1D
Entries 85
Mean 0.0111
Std Dev 0.903
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

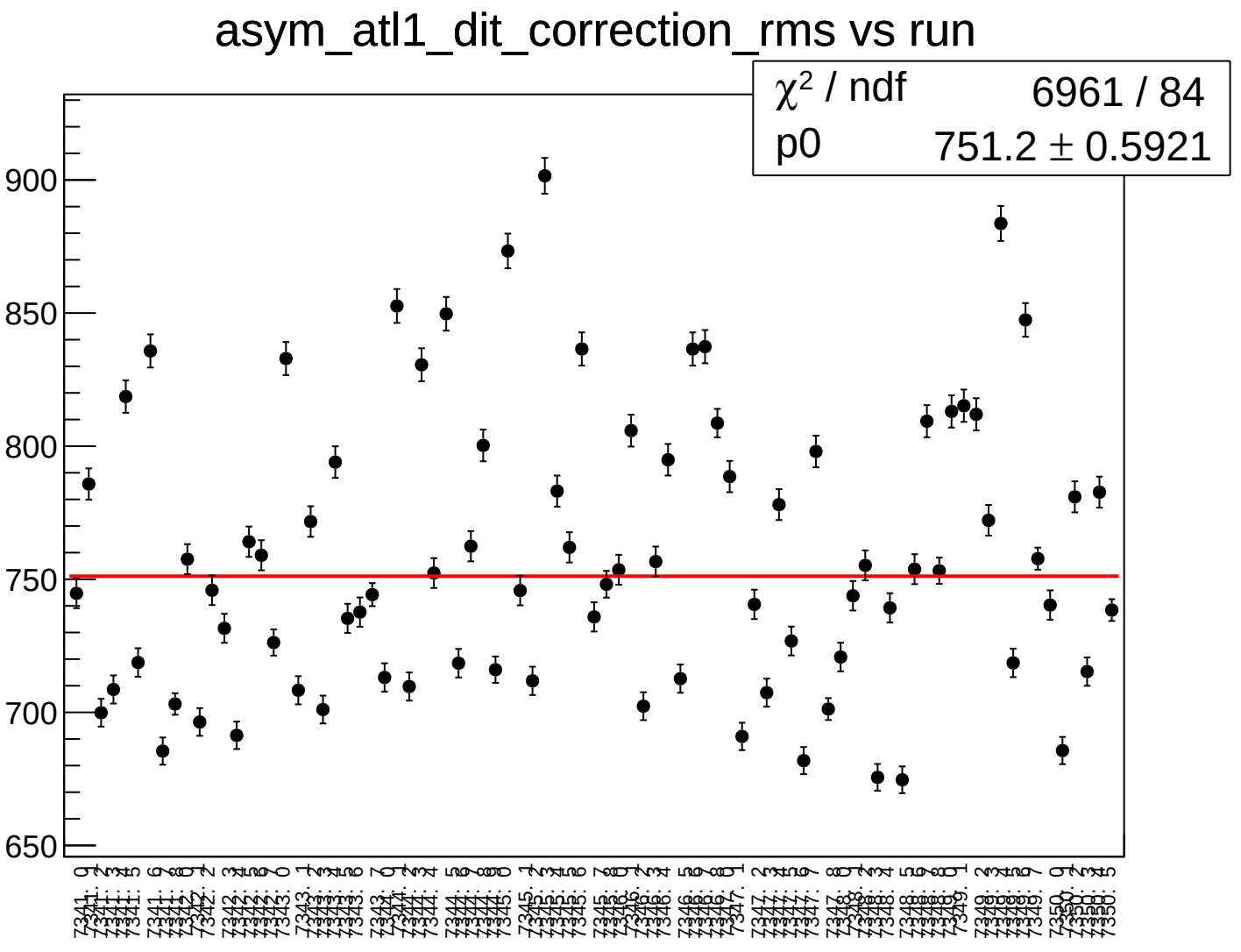

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.719e+04 / 84
p0 732 ± 0.5788
1000
950
900
850
800
750
700
650
600

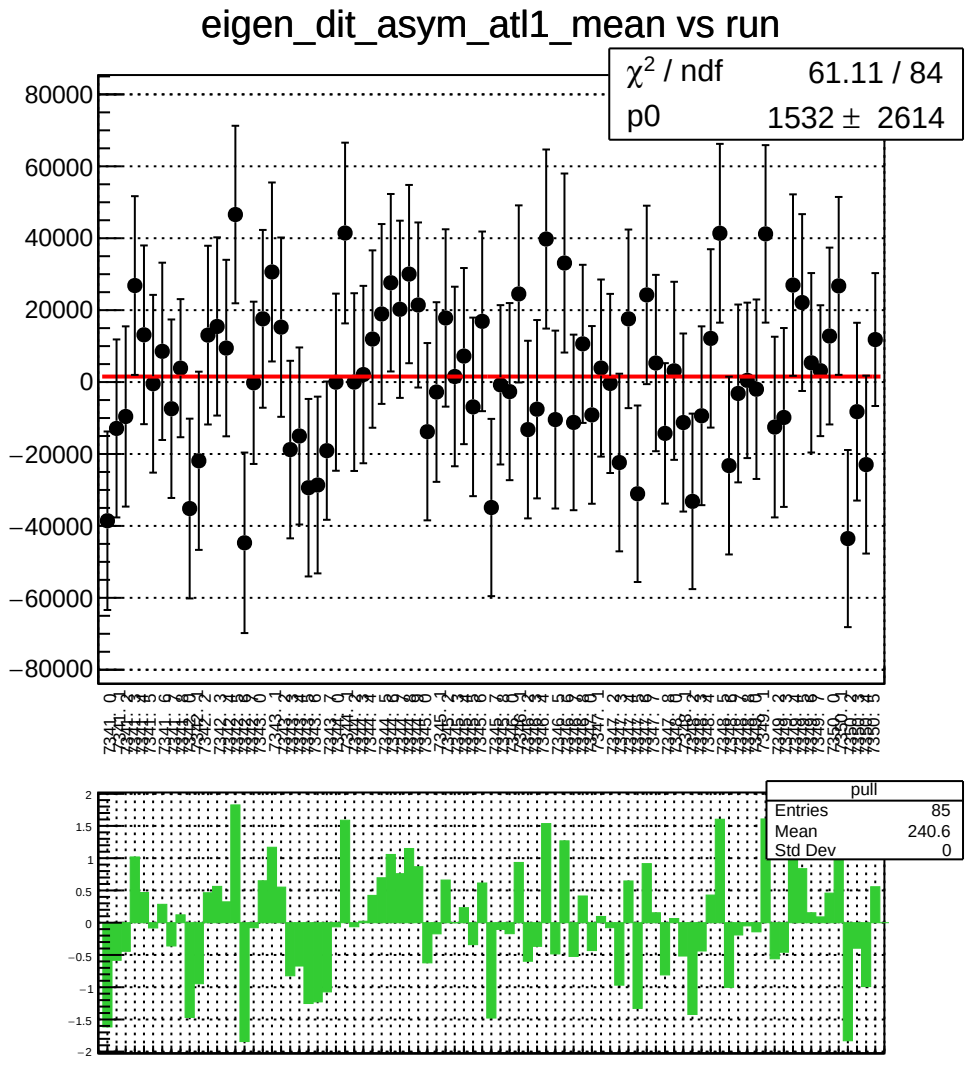

dit_asym_atl1_mean vs run
χ² / ndf 61.11 / 84
p0 1532 ± 2614
pull
Entries 85
Mean 240.6
Std Dev 0
pull1D
Entries 85
Mean 0.002956
Std Dev 0.8479

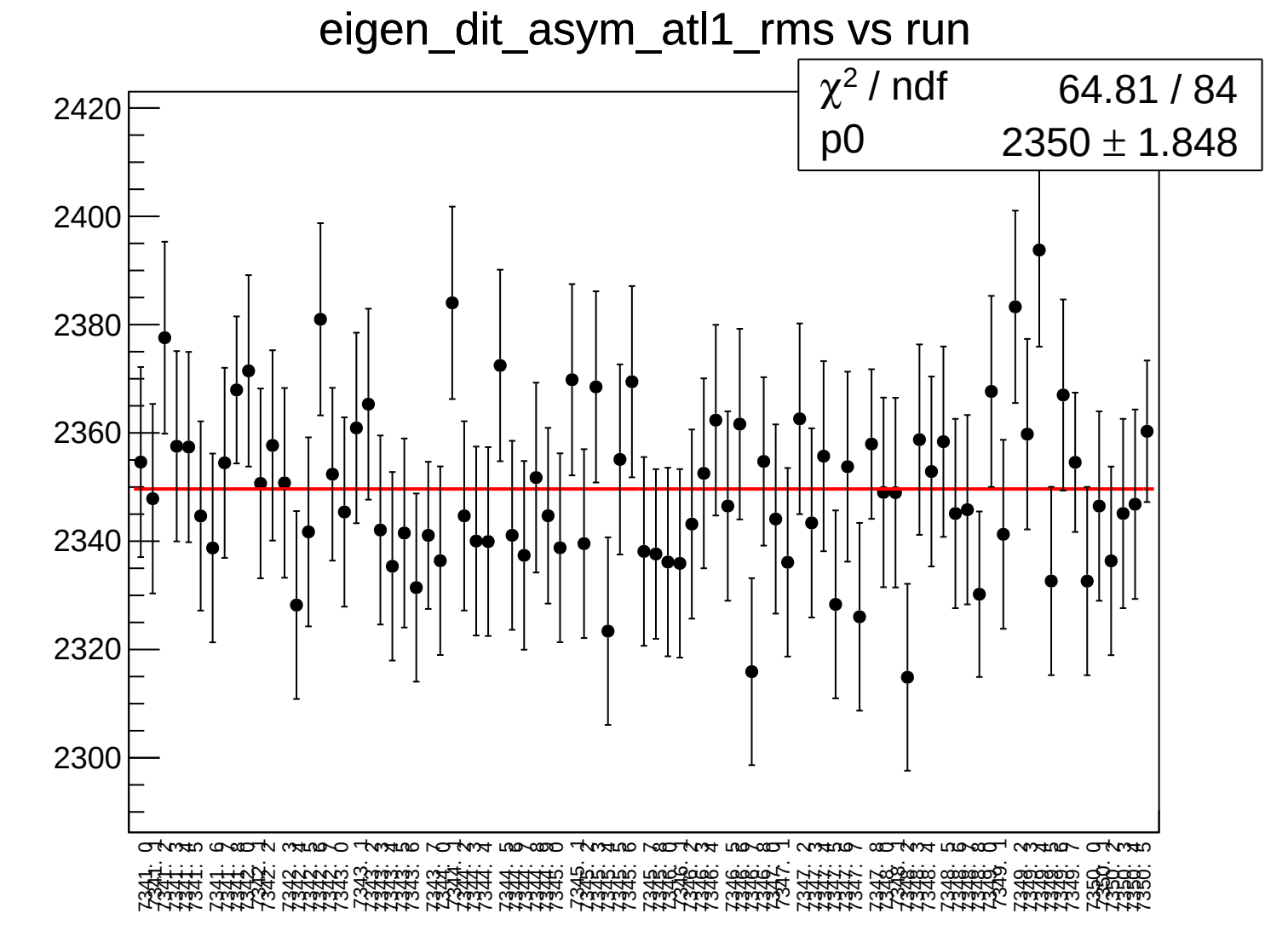

dit_asym_atl1_rms vs run
χ² / ndf 64.81 / 84
p0 2350 ± 1.848
2420
2400
2380
2360
2340
2320
2300

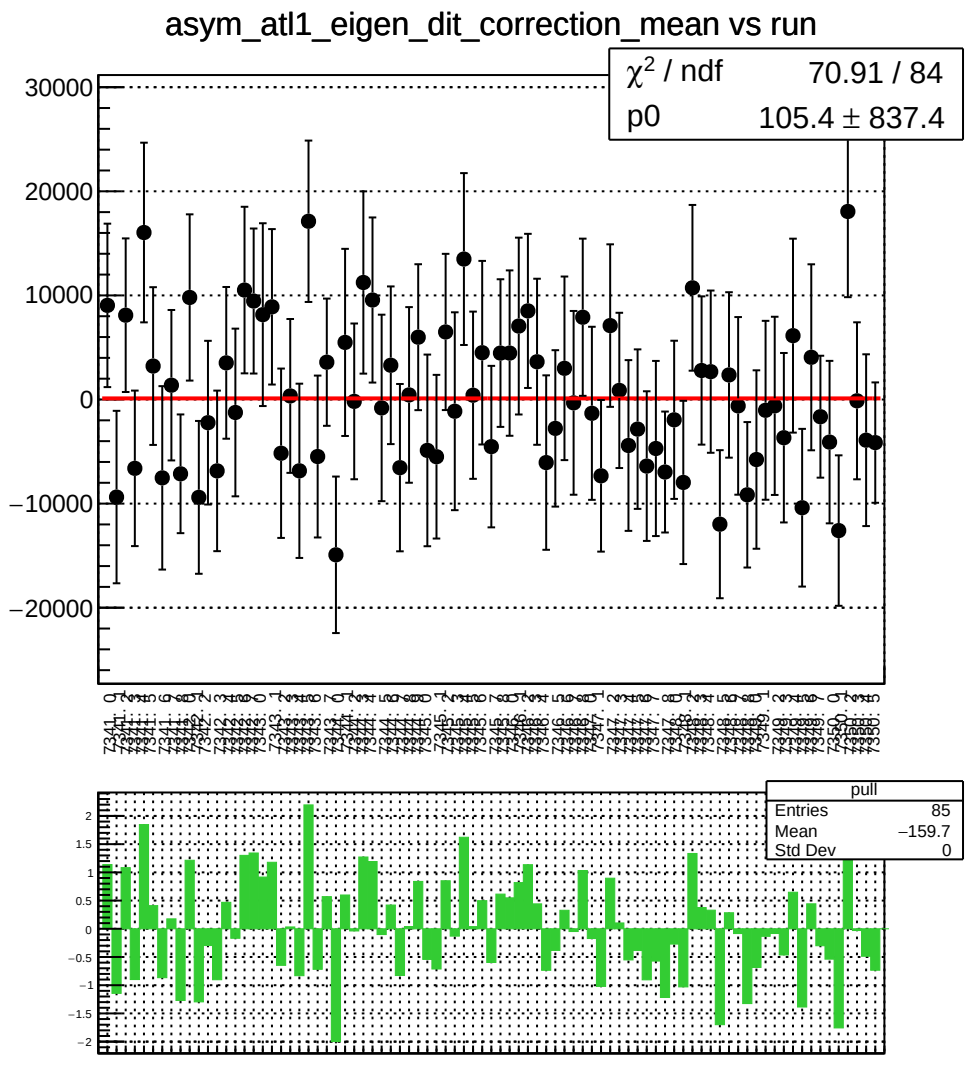

asym_atl1_dit_correction_mean vs run
χ² / ndf 70.91 / 84
p0 105.4 ± 837.4
pull
Entries 85
Mean −159.7
Std Dev 0

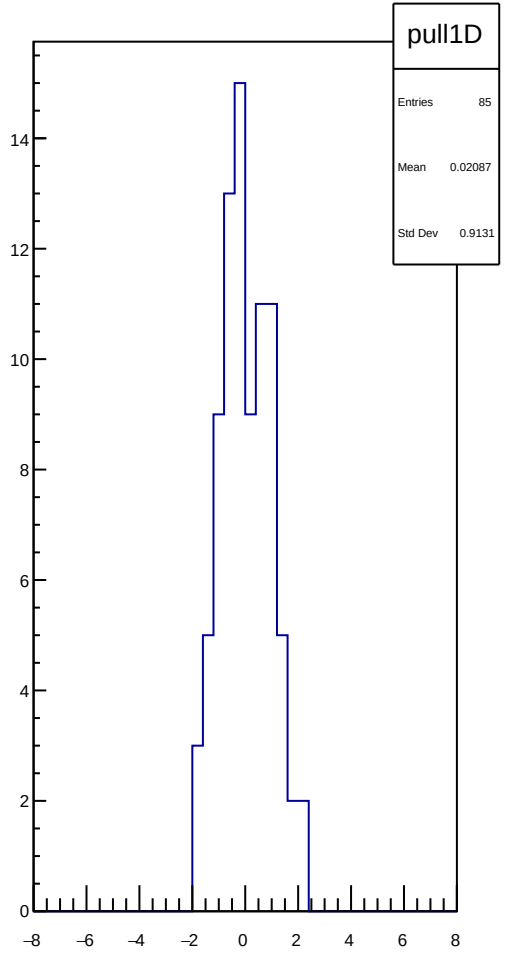

pull1D
Entries 85
Mean 0.02087
Std Dev 0.9131

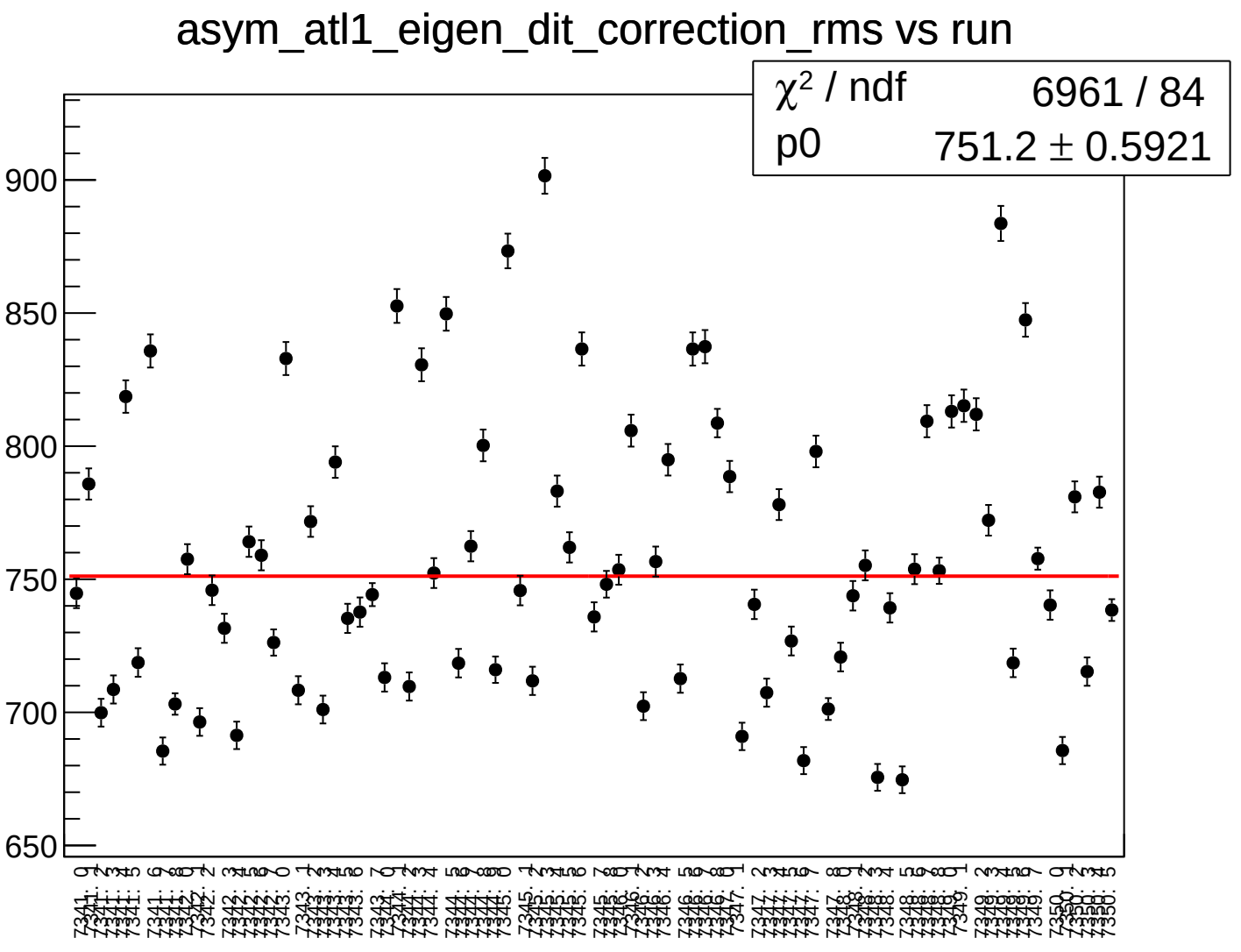

asym_atl1_dit_correction_rms vs run
χ² / ndf 6961 / 84
p0 751.2 ± 0.5921
900
850
800
750
700
650

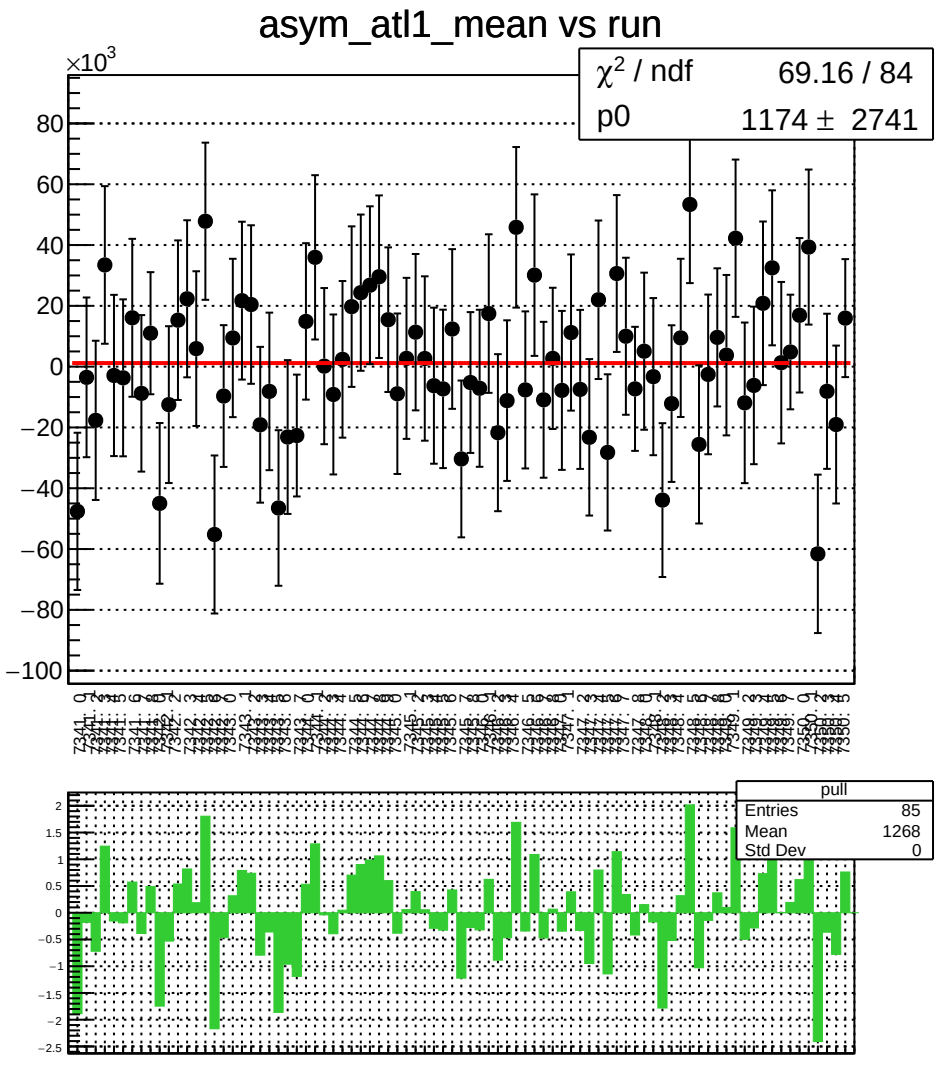

eigen_dit_asym_atl1_mean vs run
χ² / ndf 61.11 / 84
p0 1532 ± 2614
pull
Entries 85
Mean 240.6
Std Dev 0
pull1D
Entries 85
Mean 0.002956
Std Dev 0.8479

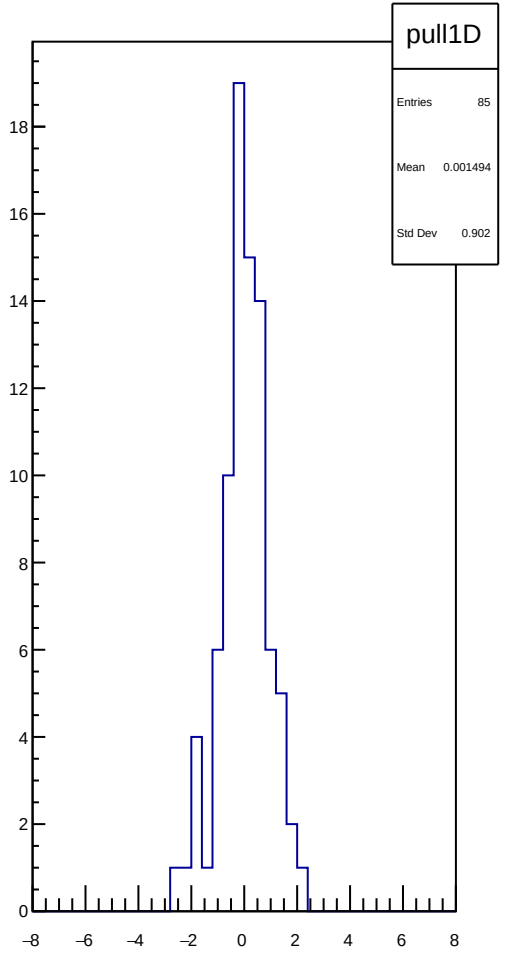

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 64.81 / 84
p0 2350 ± 1.848
2420
2400
2380
2360
2340
2320
2300

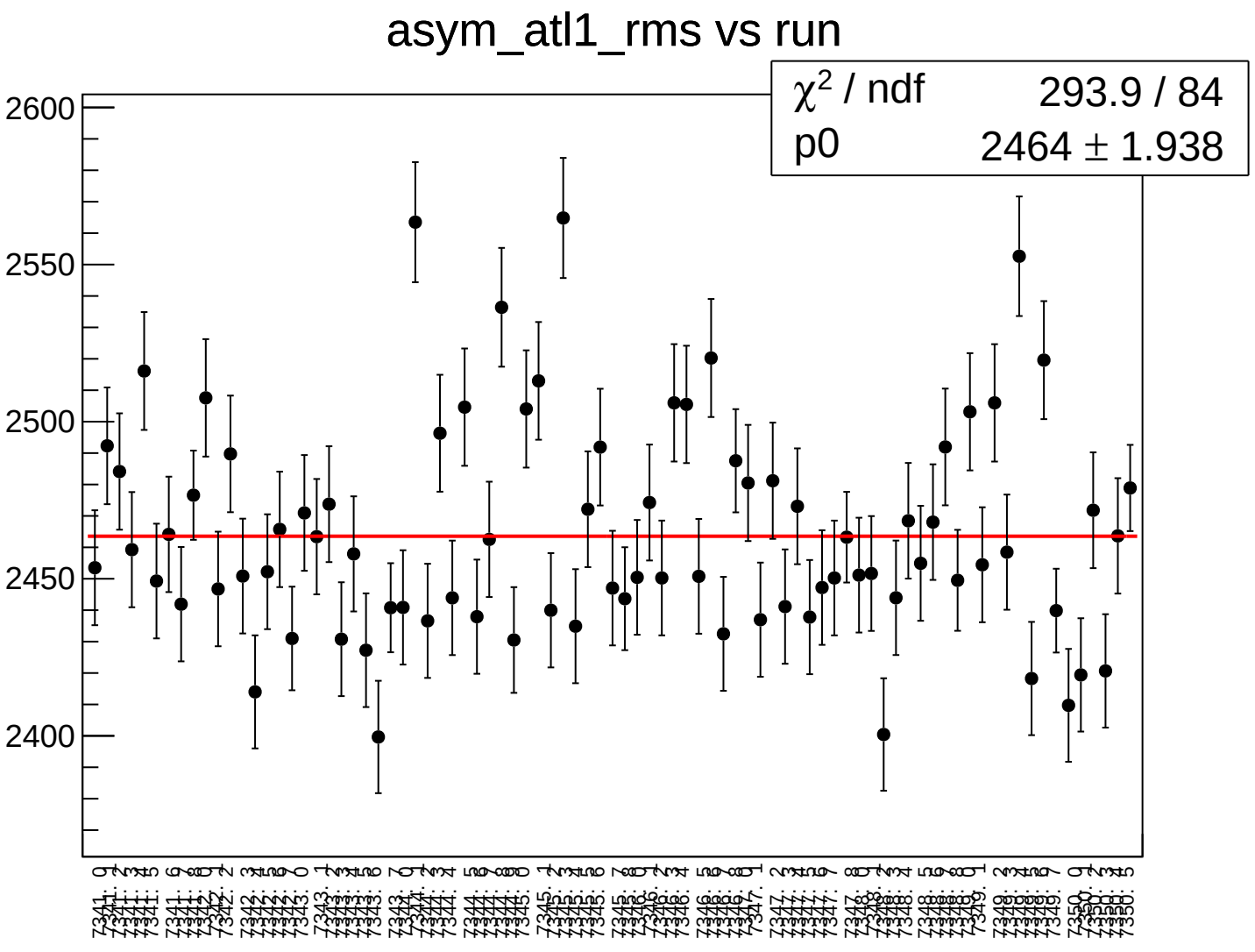

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 70.91 / 84
p0 105.4 ± 837.4
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −159.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

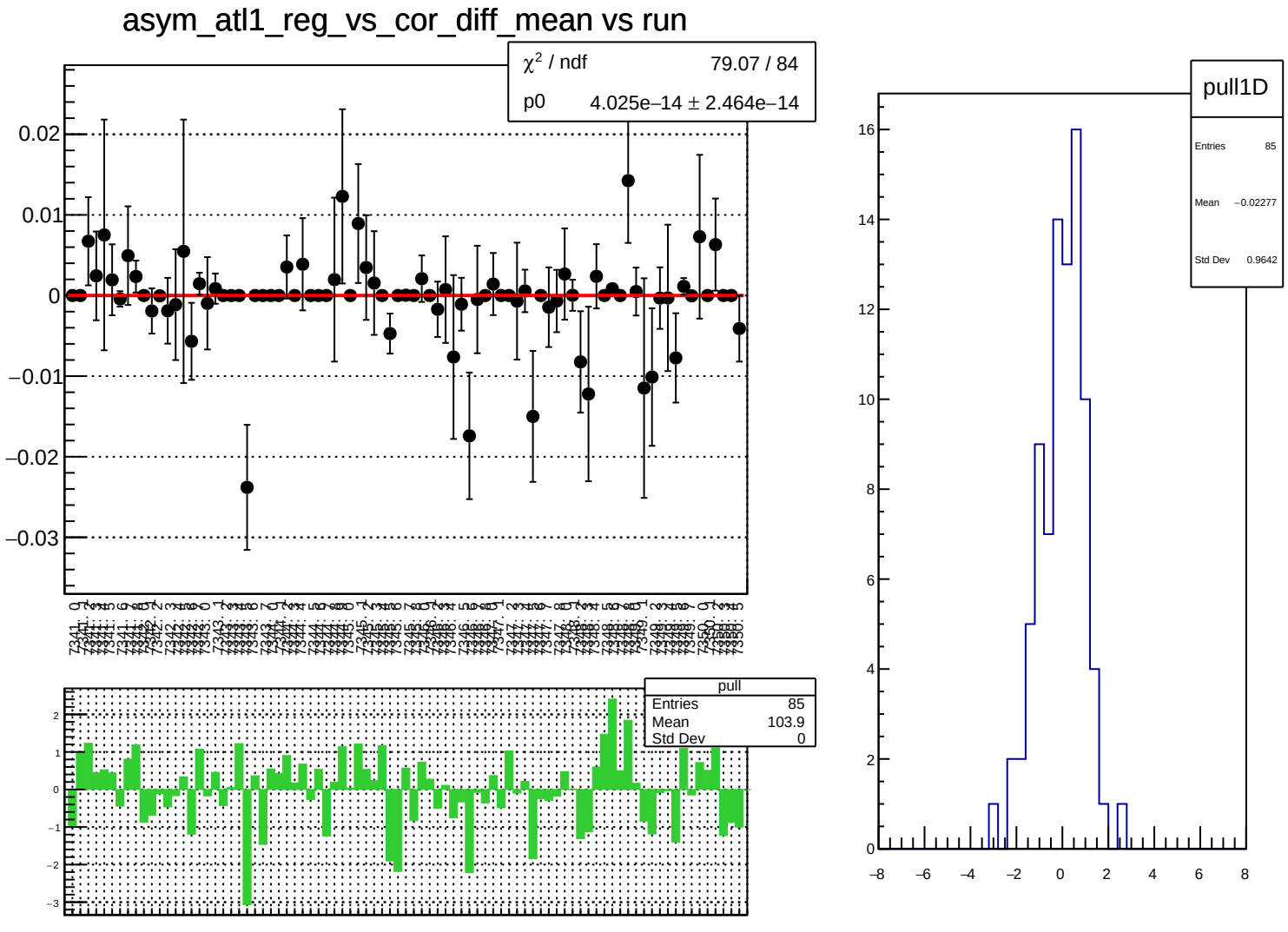

pull1D
Entries 85
Mean 0.02087
Std Dev 0.9131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

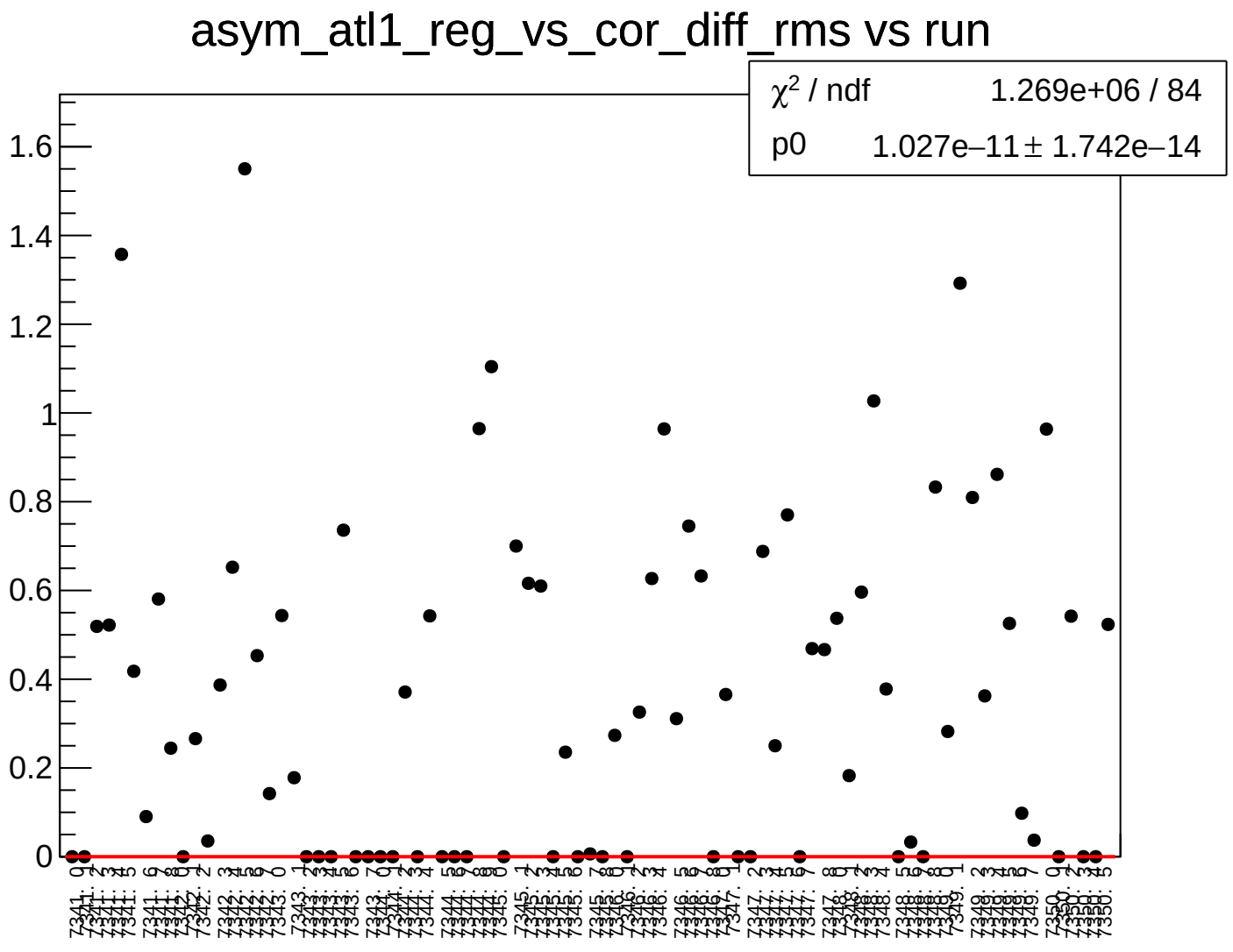

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 6961 / 84
p0 751.2 ± 0.5921
900
850
800
750
700
650

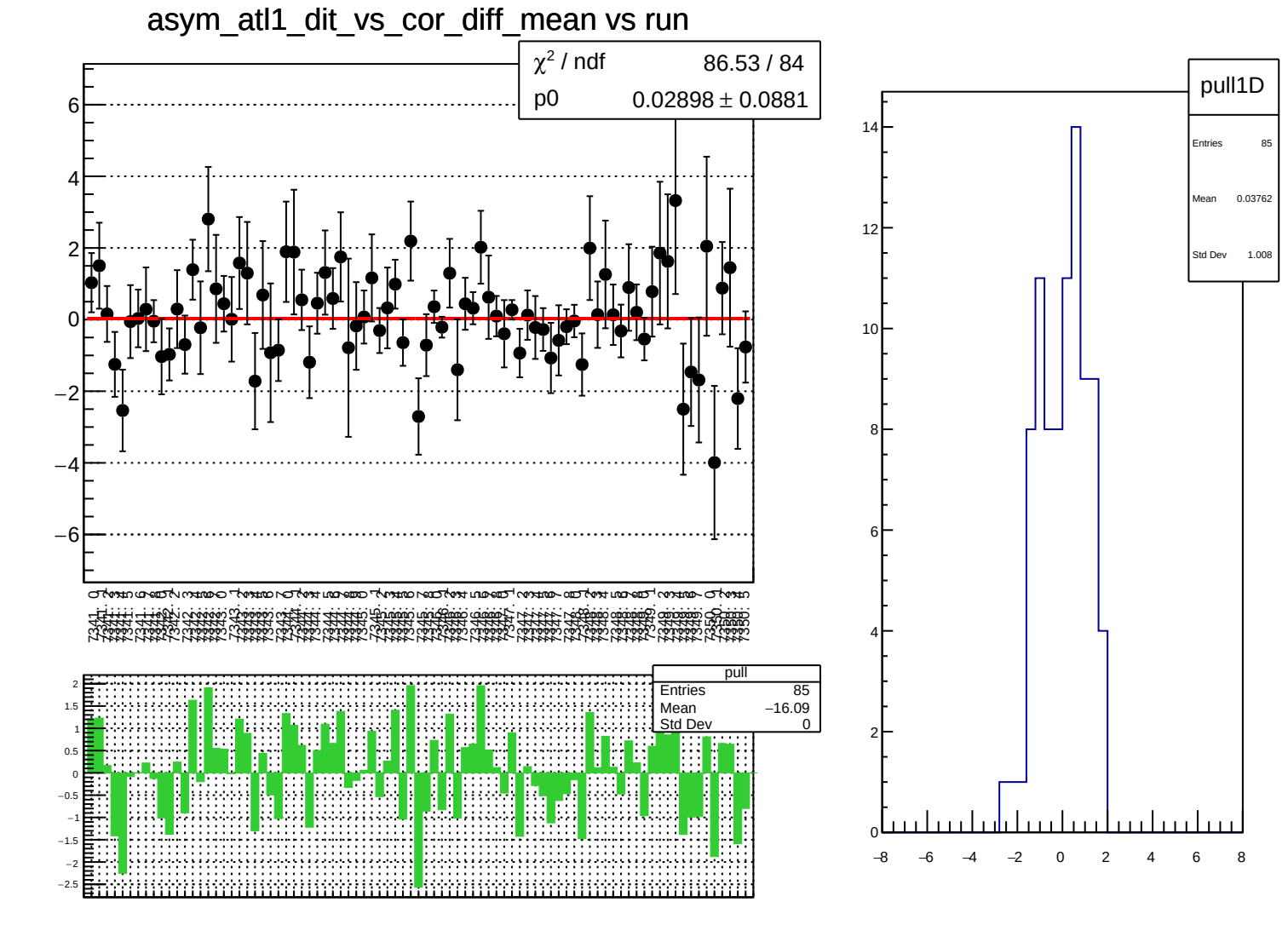

asym_atl1_mean vs run
×10^3
χ^2 / ndf 69.16 / 84
p0 1174 ± 2741
pull
Entries 85
Mean 1268
Std Dev 0

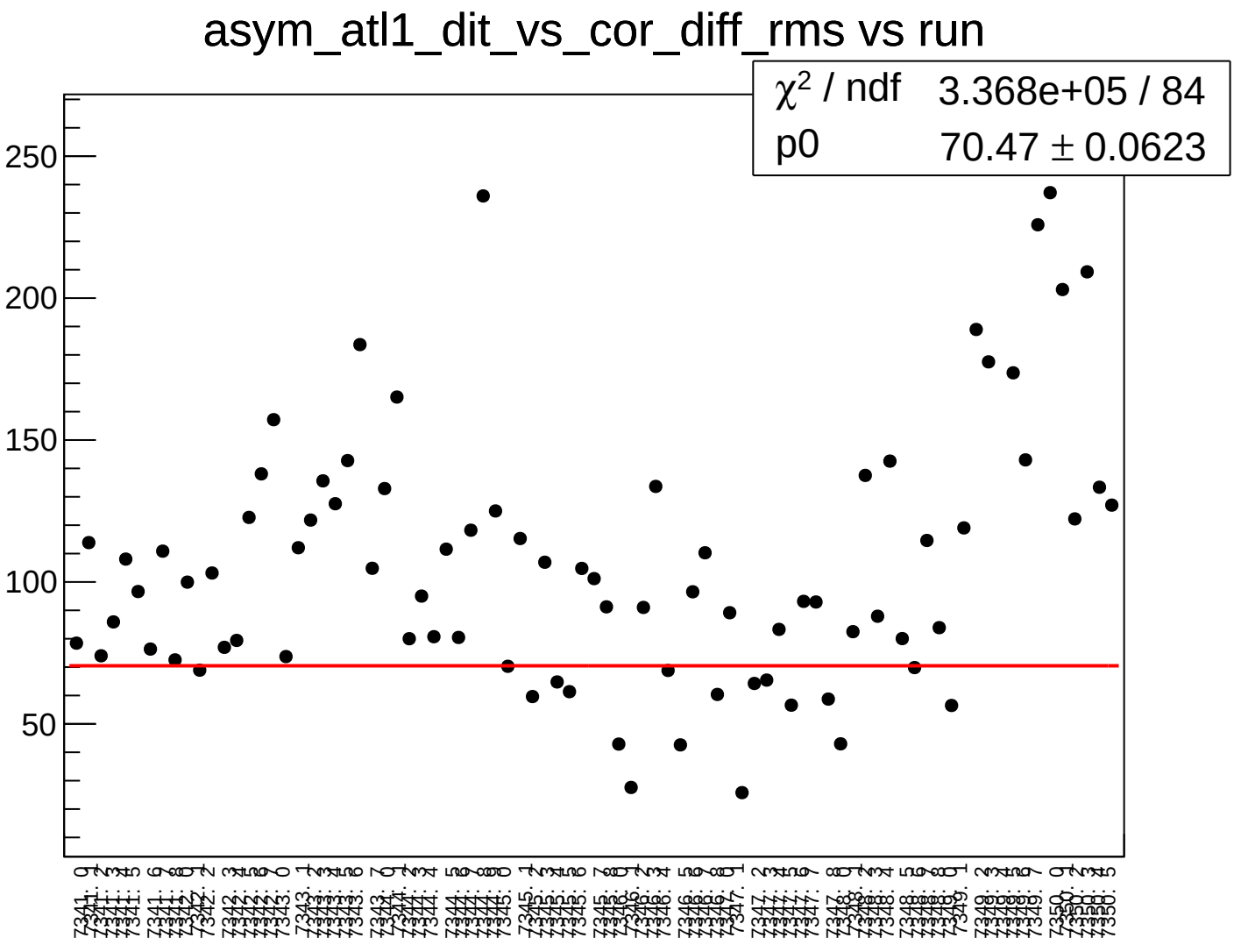

pull1D
Entries 85
Mean 0.001494
Std Dev 0.902

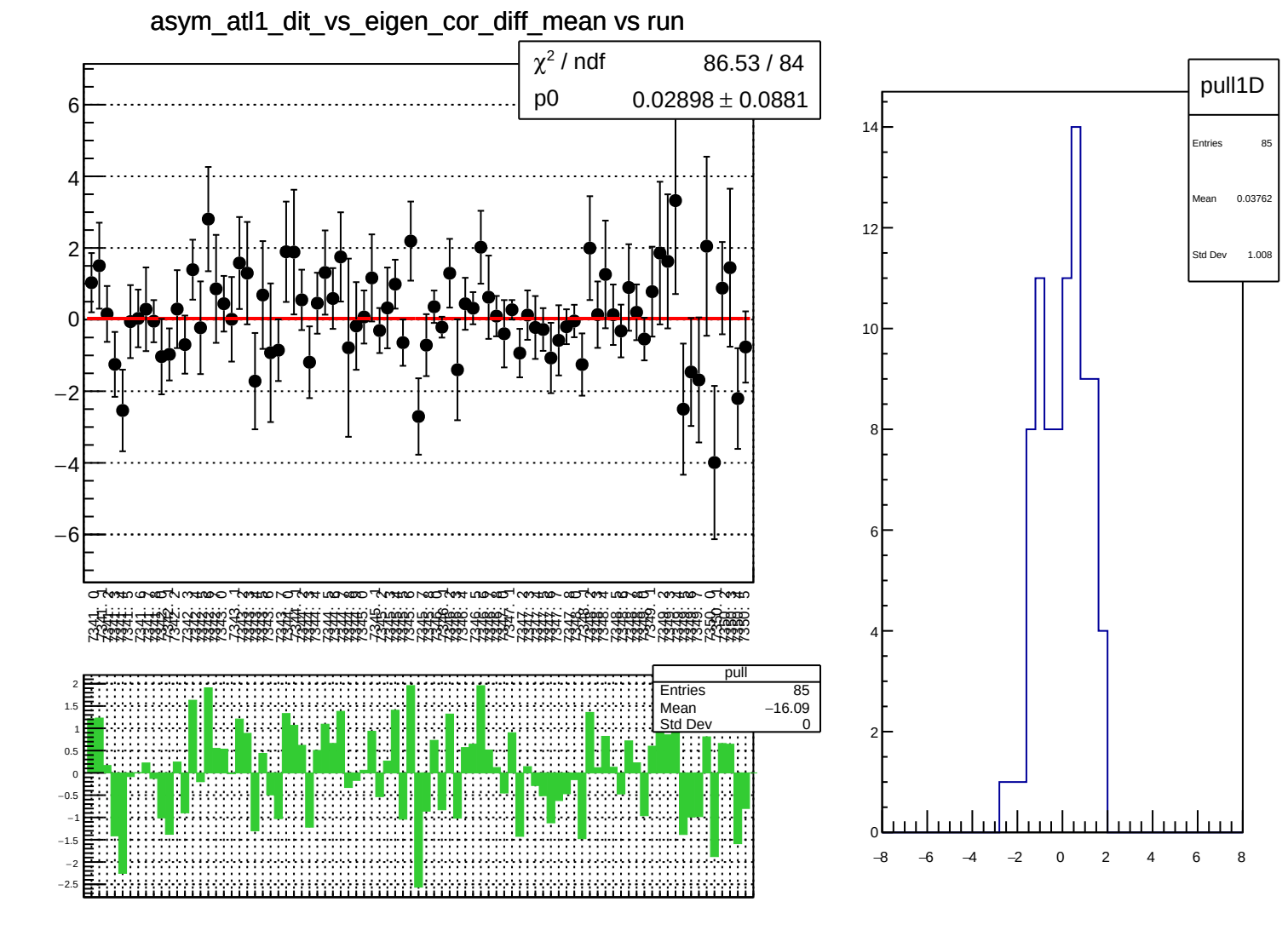

asym_atl1_rms vs run
χ² / ndf 293.9 / 84
p0 2464 ± 1.938
2600
2550
2500
2450
2400

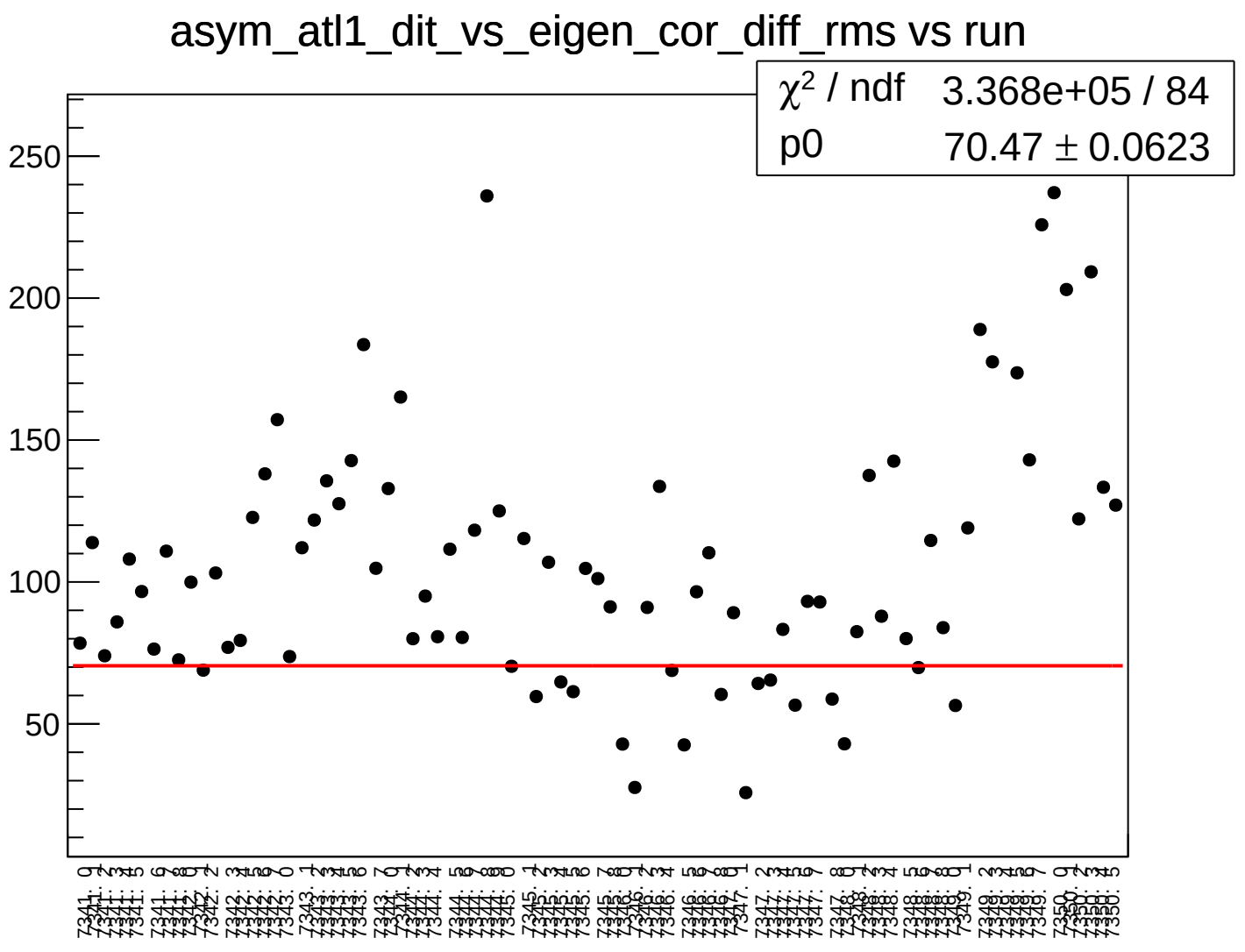

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 79.07 / 84
p0 4.025e−14 ± 2.464e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean 103.9
Std Dev 0
pull1D
Entries 85
Mean −0.02277
Std Dev 0.9642
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

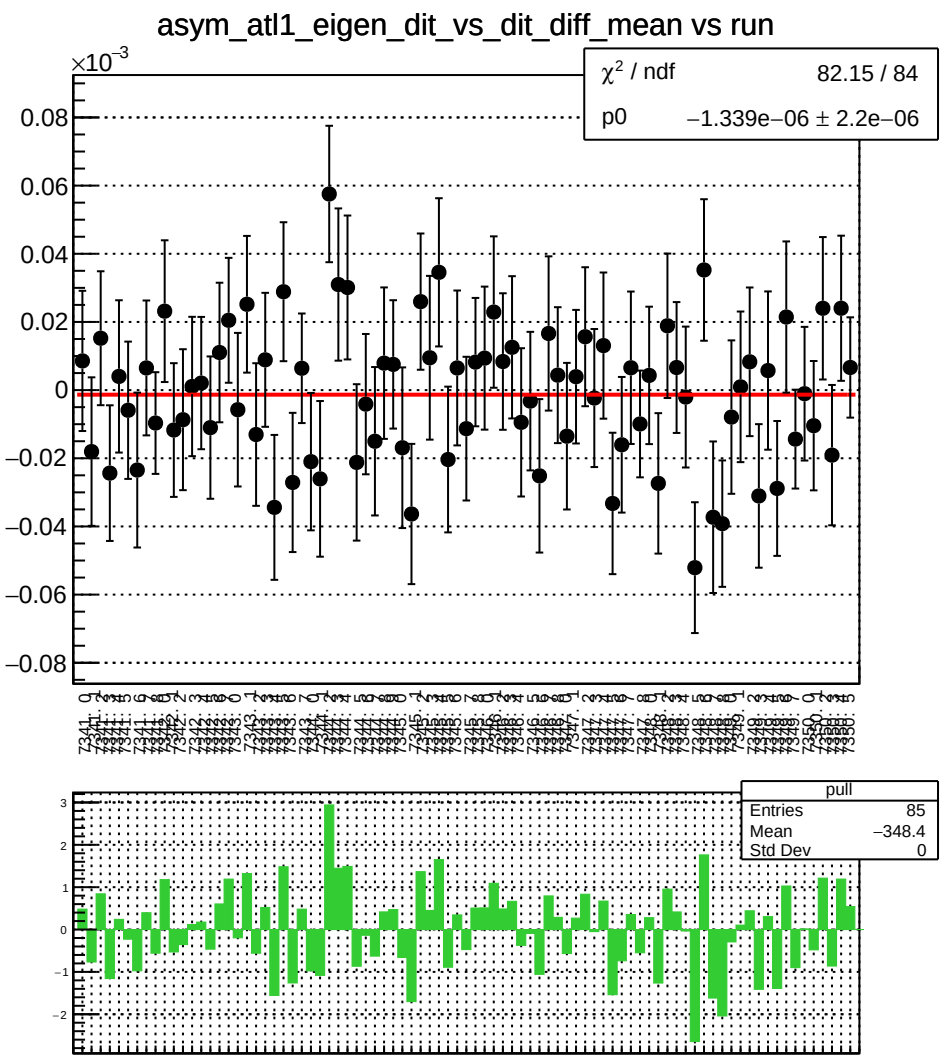

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.269e+06 / 84
p0 1.027e−11 ± 1.742e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

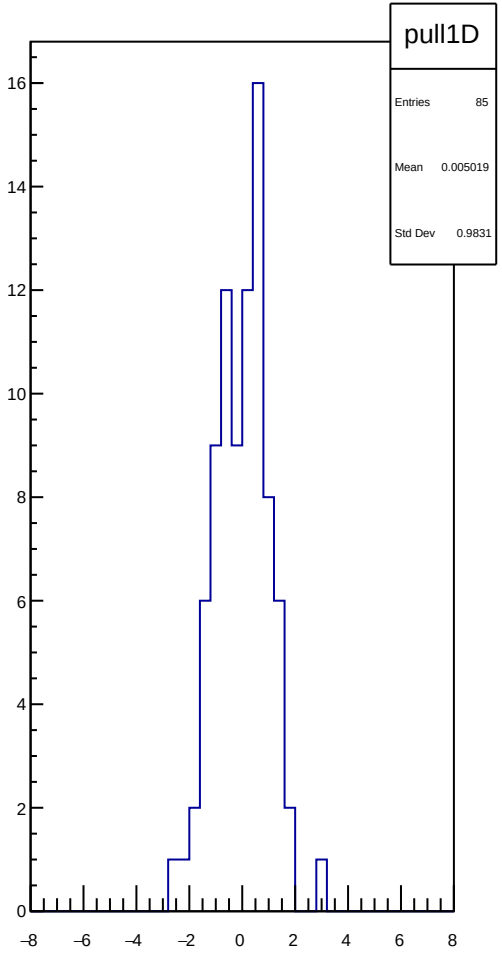

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 86.53 / 84
p0 0.02898 ± 0.0881
pull
Entries 85
Mean −16.09
Std Dev 0
pull1D
Entries 85
Mean 0.03762
Std Dev 1.008

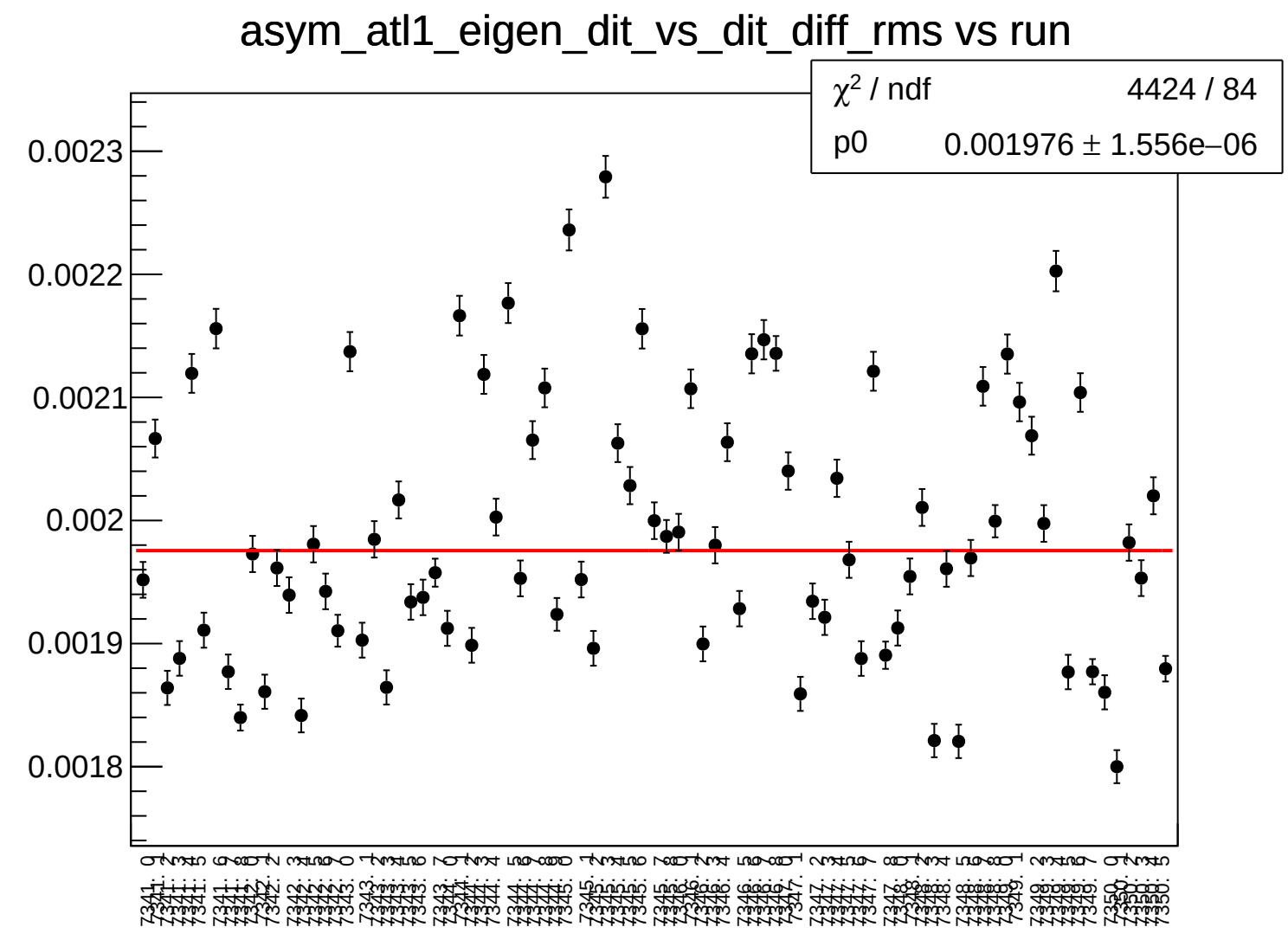

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.368e+05 / 84
p0 70.47 ± 0.0623
250
200
150
100
50

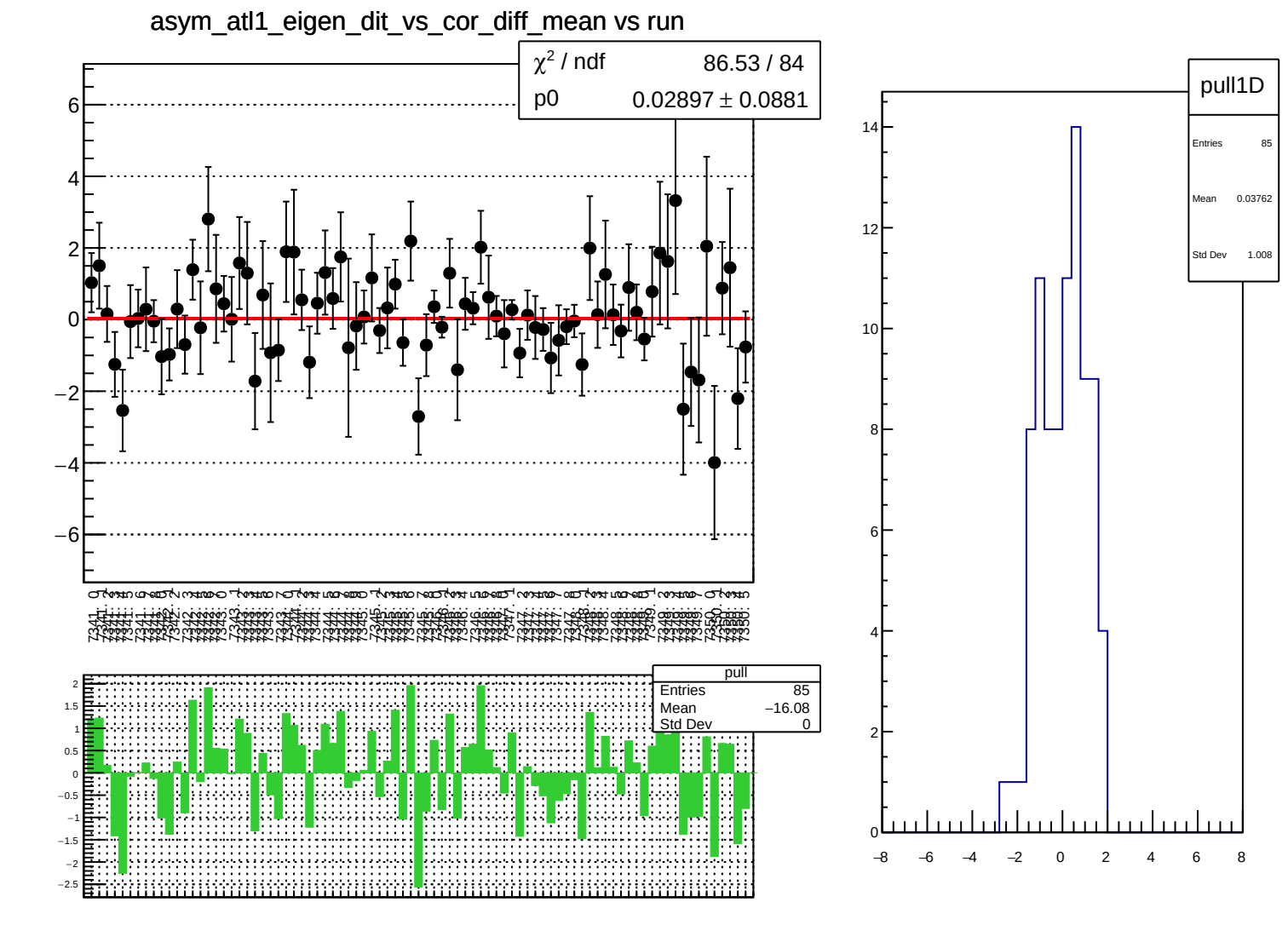

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.53 / 84
p0 0.02898 ± 0.0881
pull
Entries 85
Mean −16.09
Std Dev 0
pull1D
Entries 85
Mean 0.03762
Std Dev 1.008

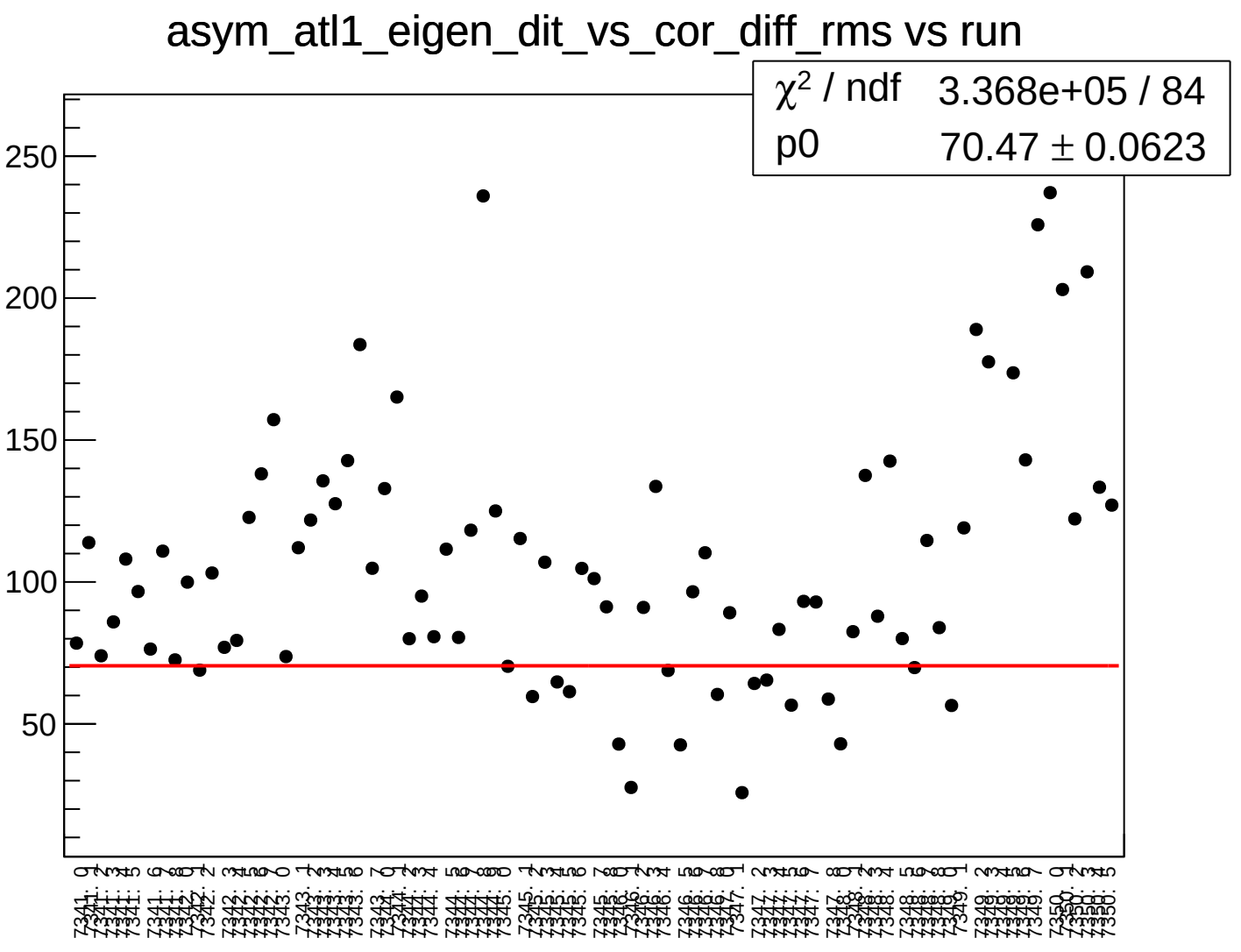

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.368e+05 / 84
p0 70.47 ± 0.0623
250
200
150
100
50

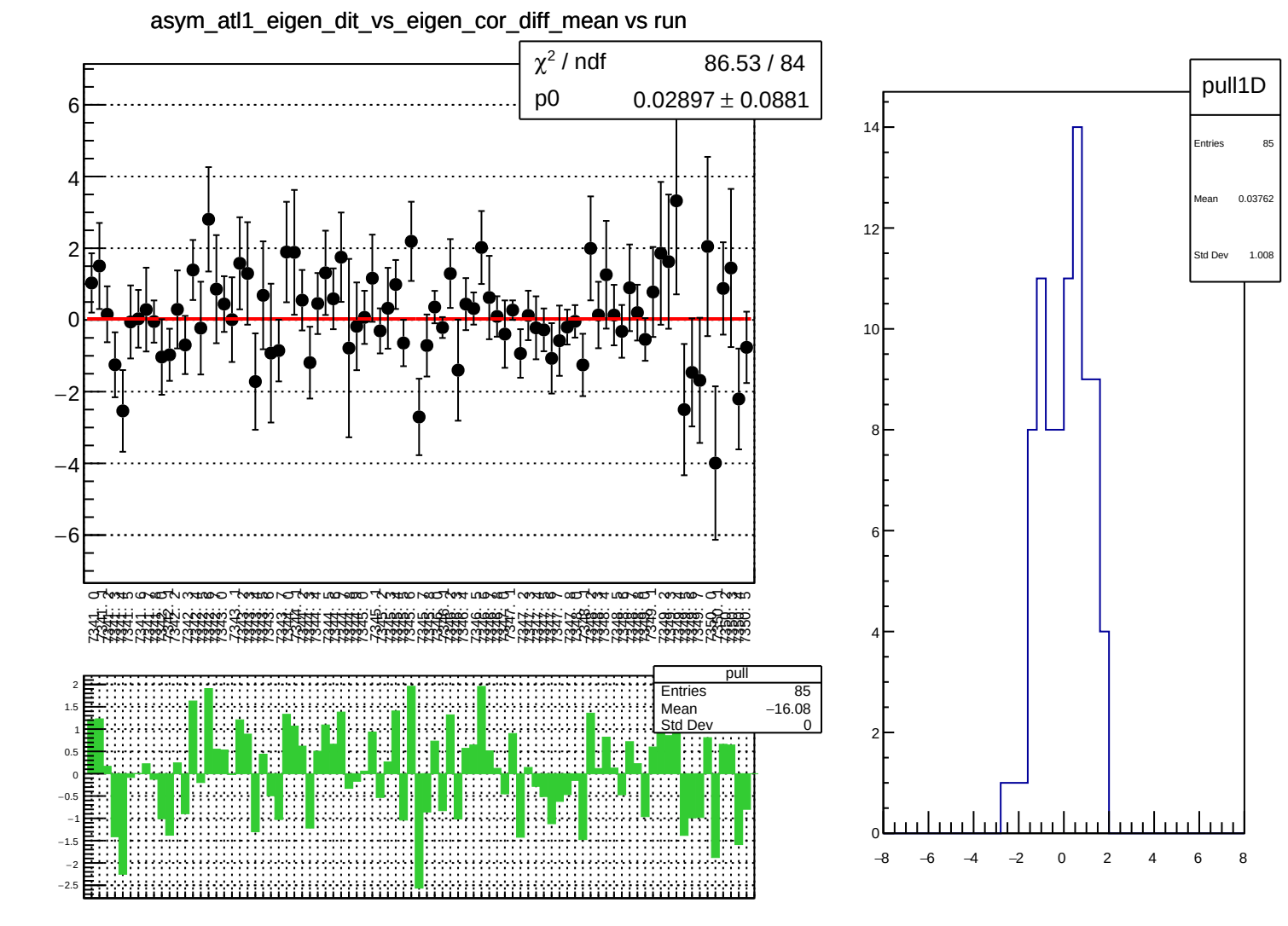

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.15 / 84
p0 −1.339e−06 ± 2.2e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 85
Mean −348.4
Std Dev 0

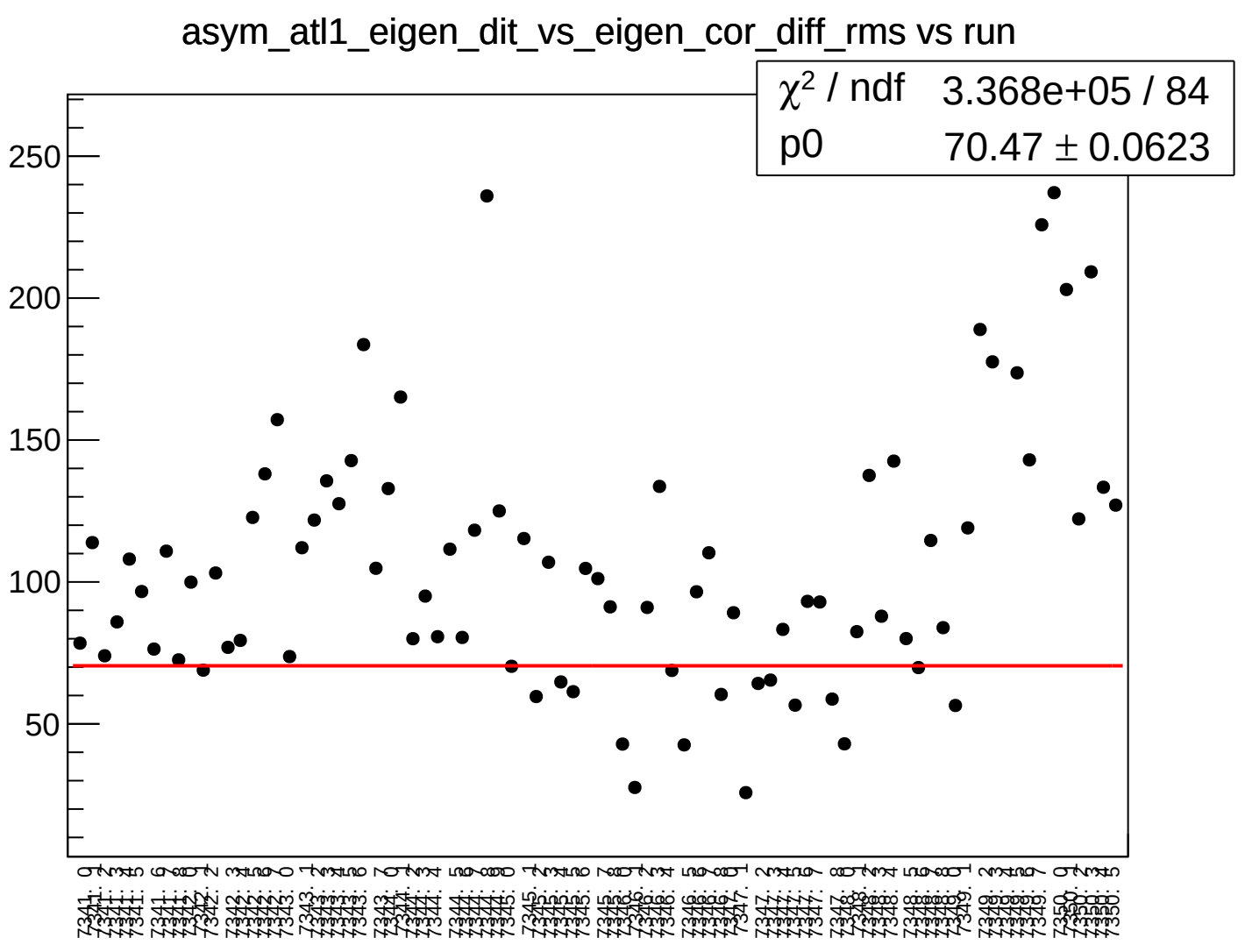

pull1D
Entries 85
Mean 0.005019
Std Dev 0.9831

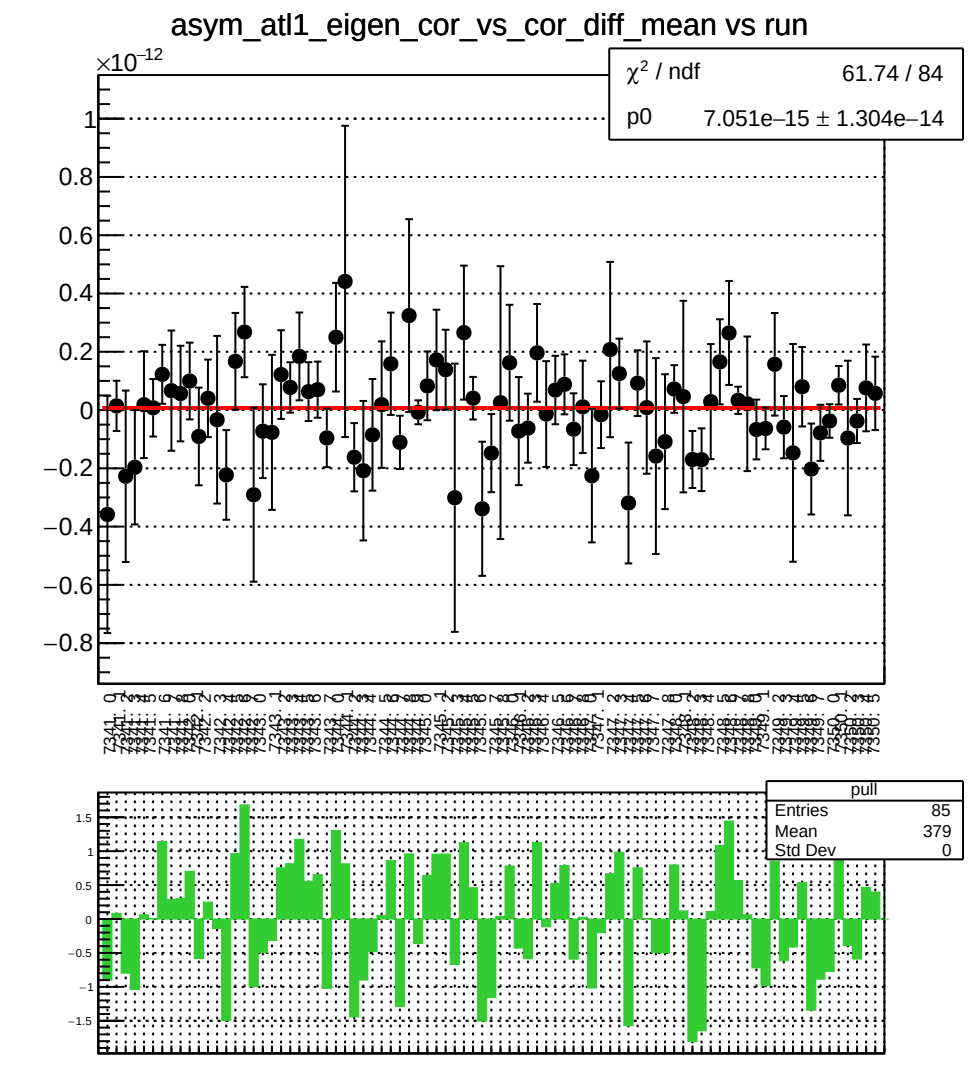

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4424 / 84
p0 0.001976 ± 1.556e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

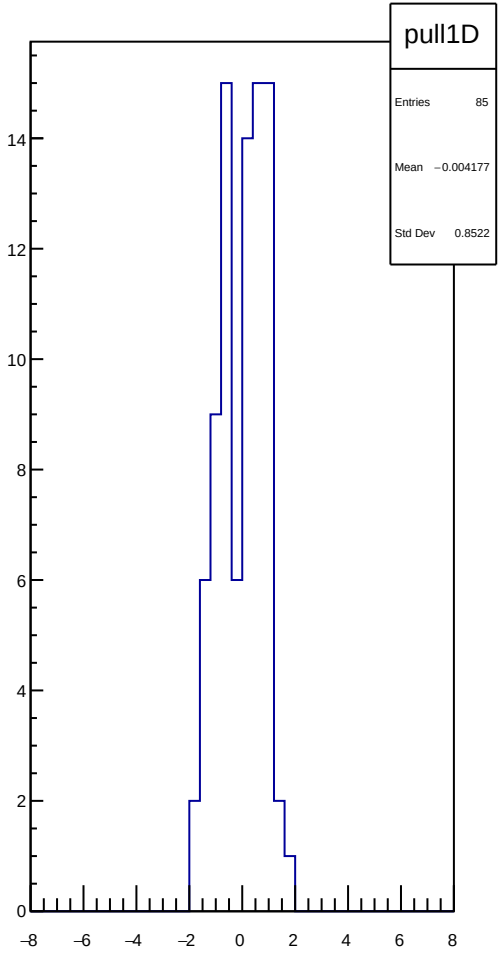

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.53 / 84
p0 0.02897 ± 0.0881
pull
Entries 85
Mean −16.08
Std Dev 0
pull1D
Entries 85
Mean 0.03762
Std Dev 1.008

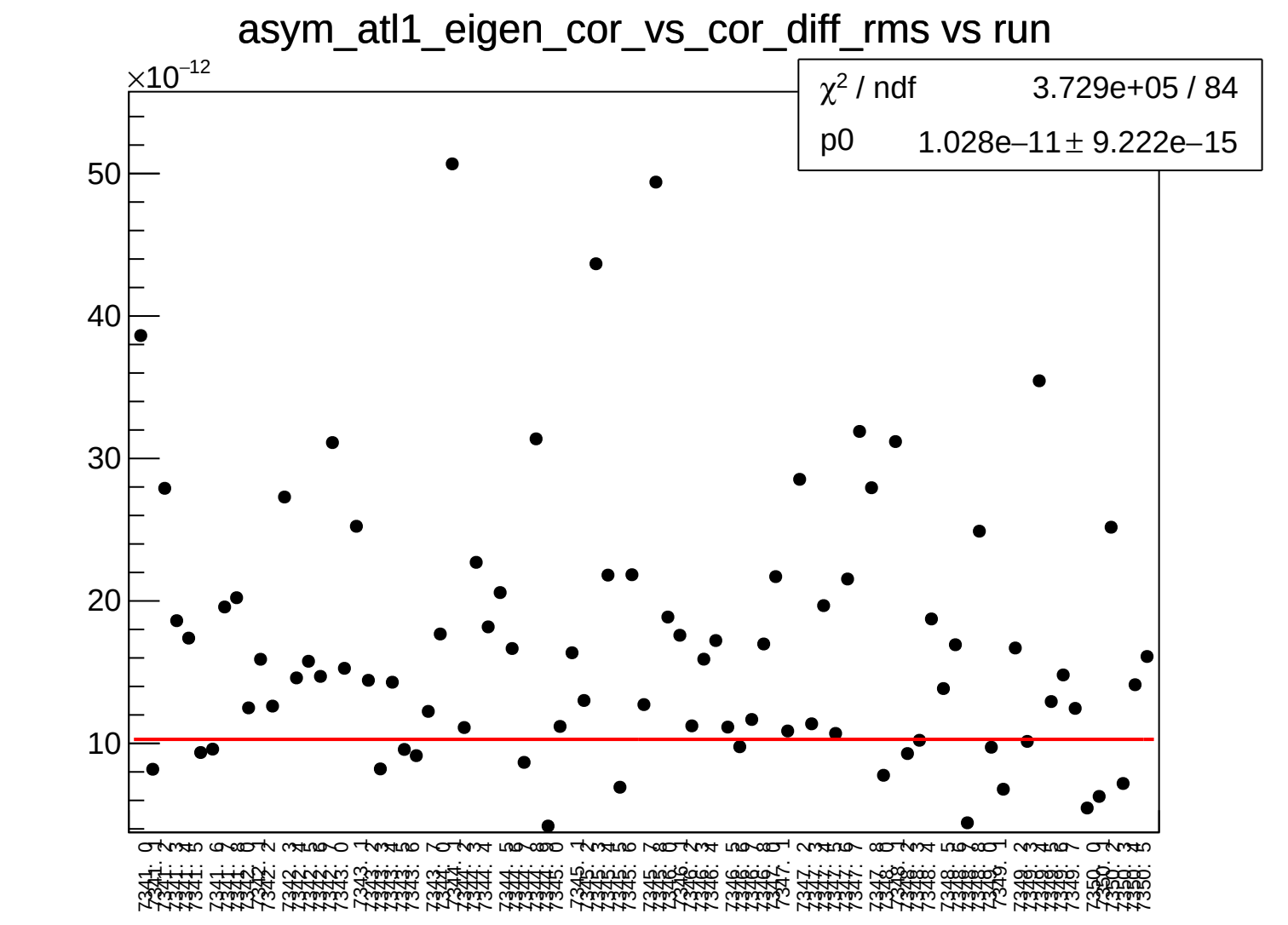

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.368e+05 / 84
p0 70.47 ± 0.0623
250
200
150
100
50

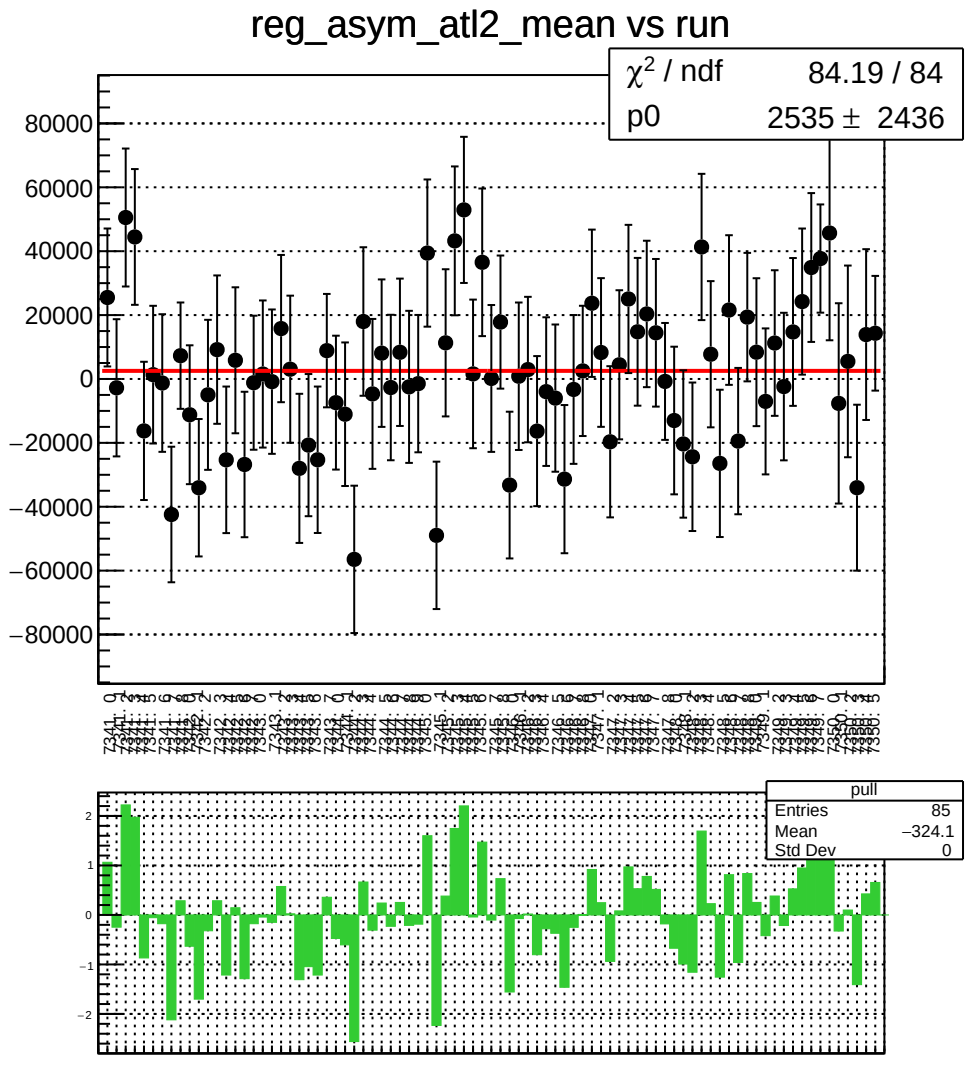

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.53 / 84
p0 0.02897 ± 0.0881
pull
Entries 85
Mean −16.08
Std Dev 0
pull1D
Entries 85
Mean 0.03762
Std Dev 1.008

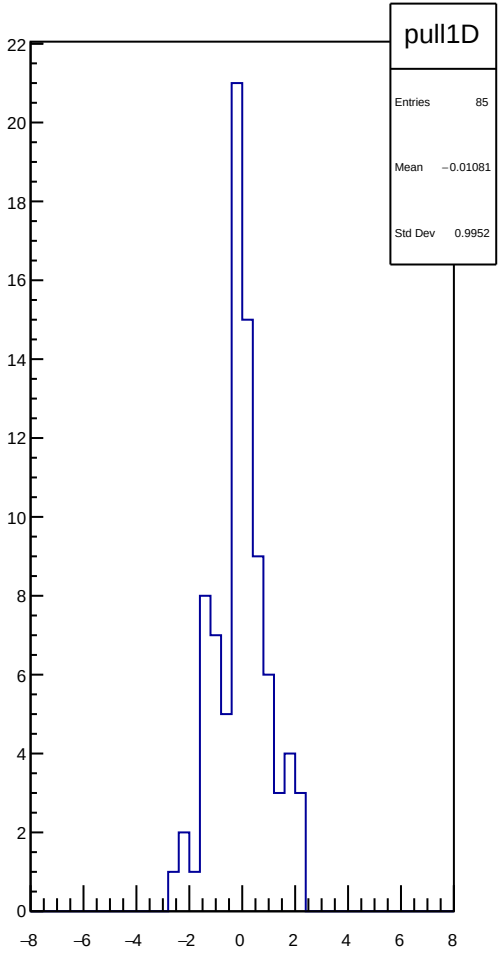

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.368e+05 / 84
p0 70.47 ± 0.0623
250
200
150
100
50

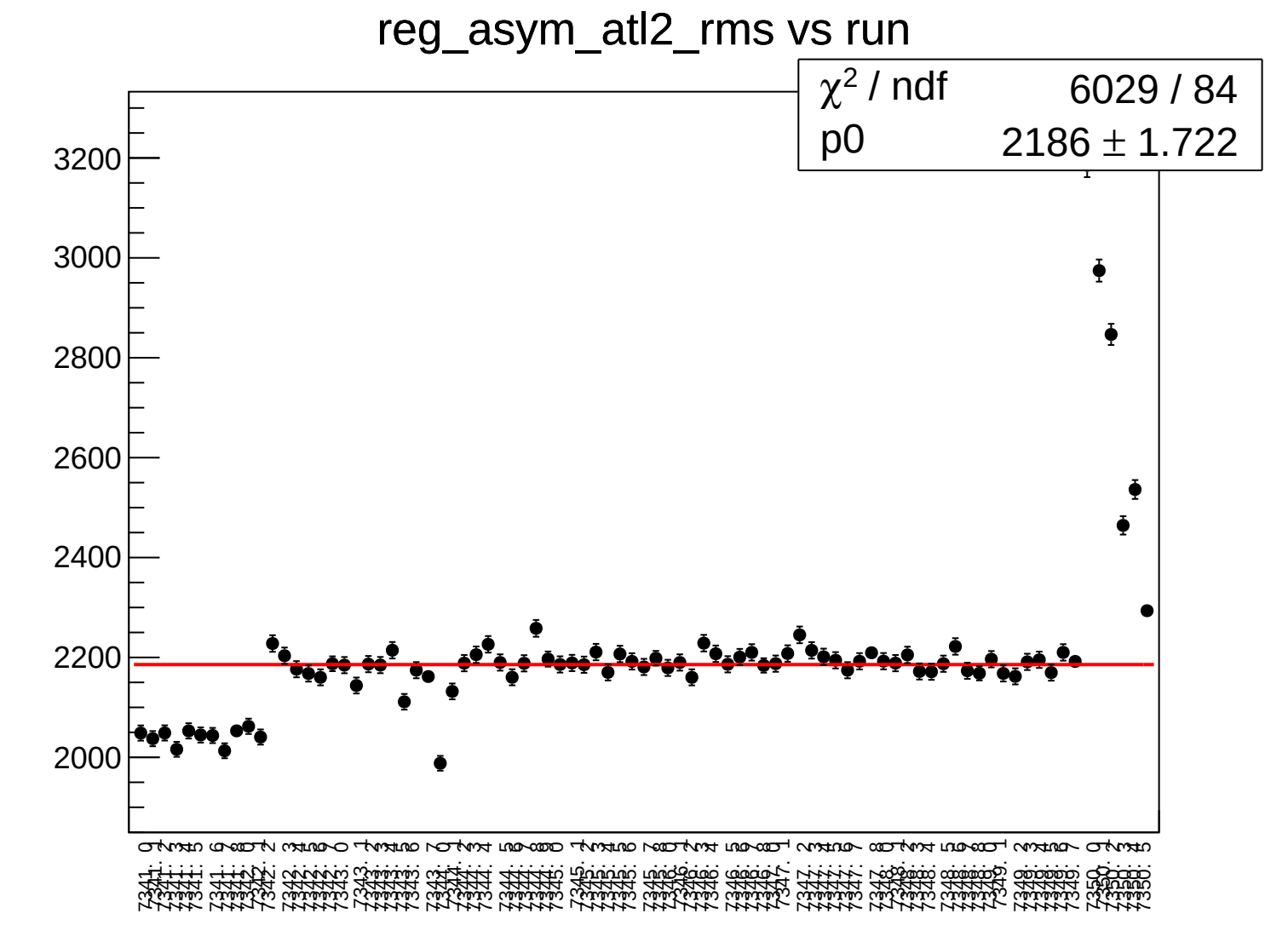

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.74 / 84
p0 7.051e−15 ± 1.304e−14
pull
Entries 85
Mean 379
Std Dev 0

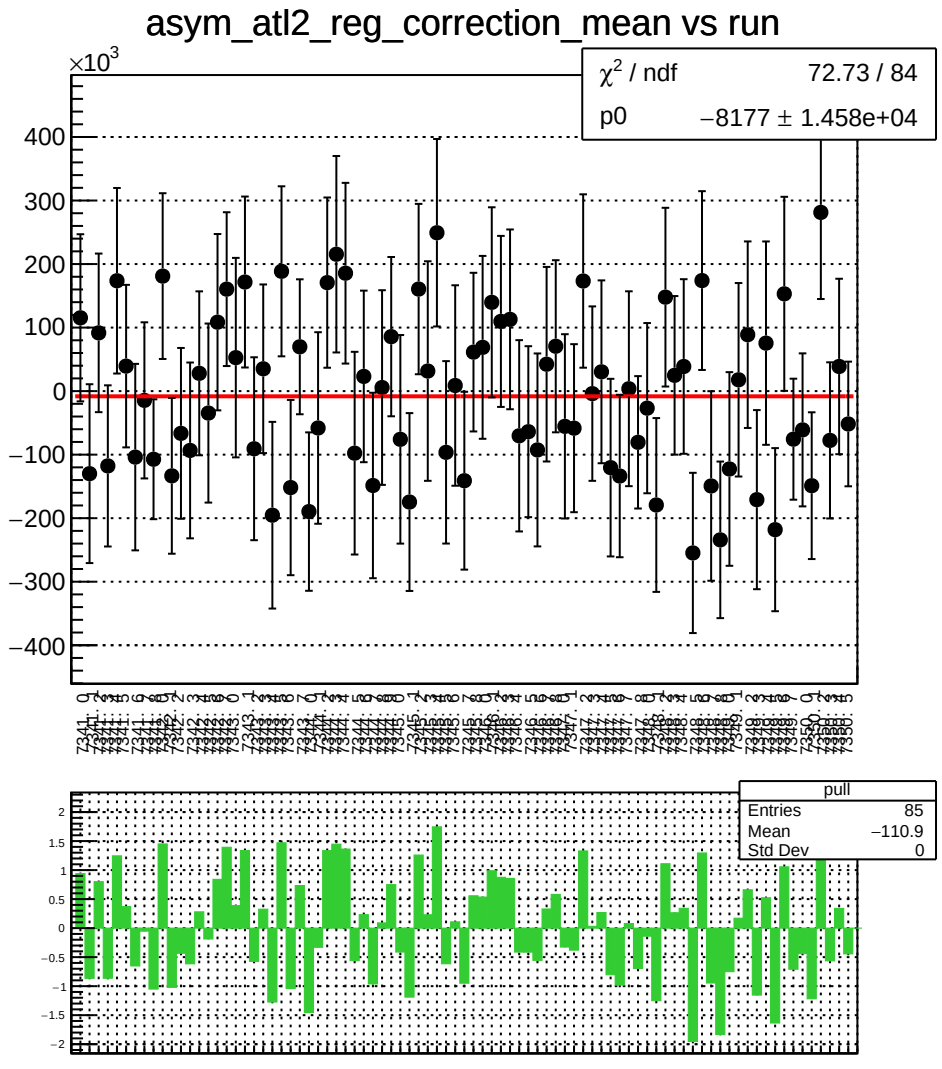

pull1D
Entries 85
Mean −0.004177
Std Dev 0.8522

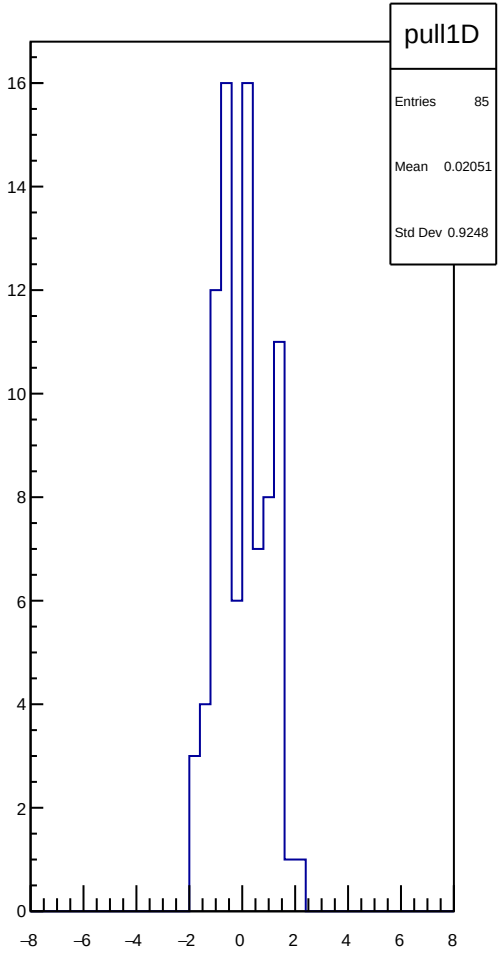

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.729e+05 / 84
p0 1.028e−11 ± 9.222e−15
50
40
30
20
10

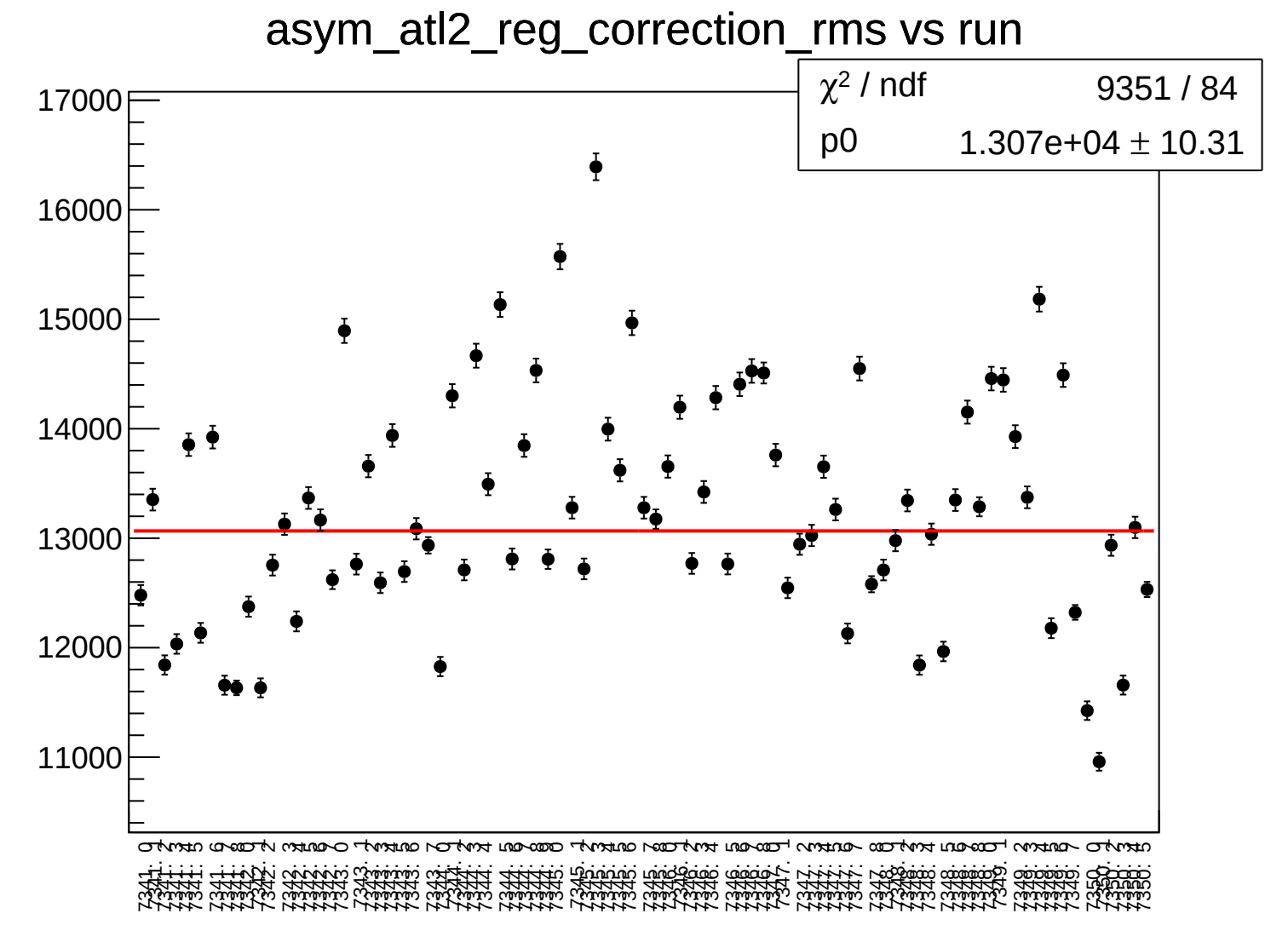

reg_asym_atl2_mean vs run
χ² / ndf 84.19 / 84
p0 2535 ± 2436
pull
Entries 85
Mean −324.1
Std Dev 0

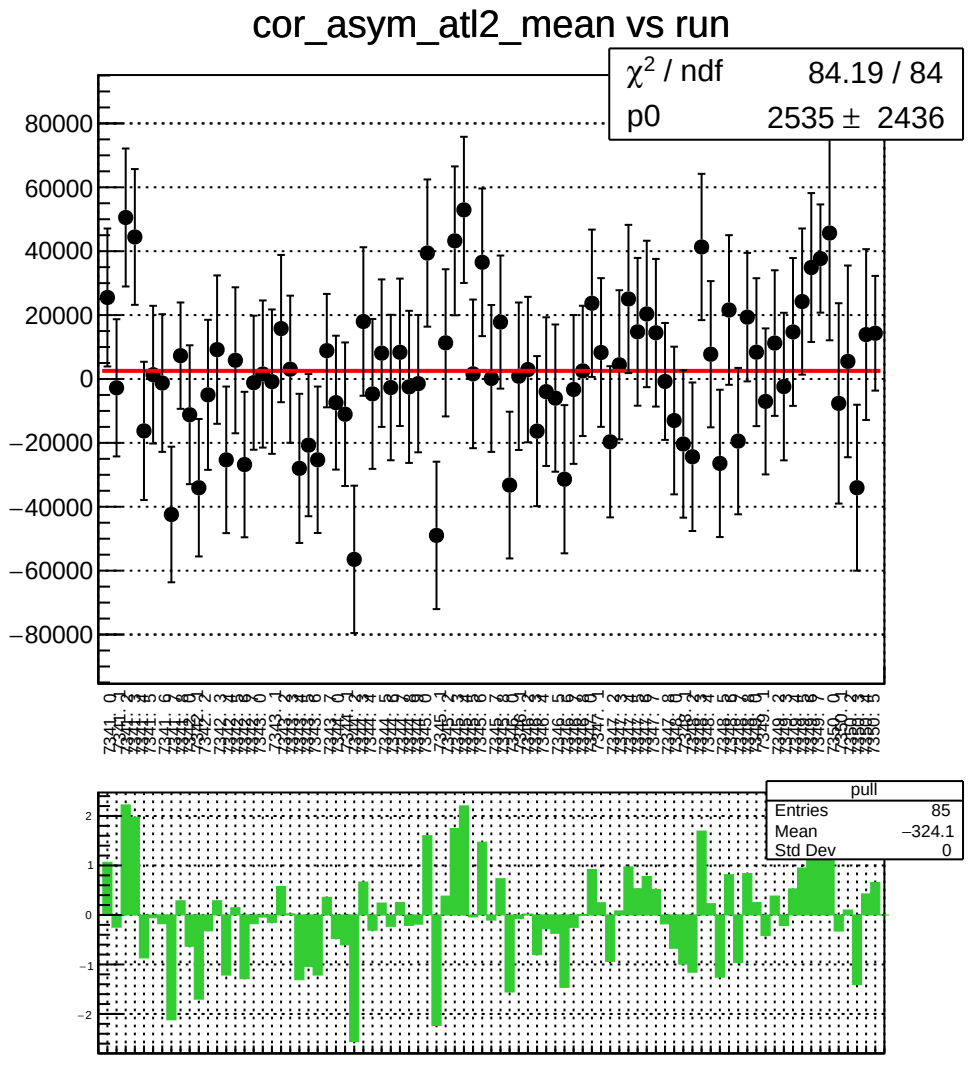

pull1D
Entries 85
Mean −0.01081
Std Dev 0.9952

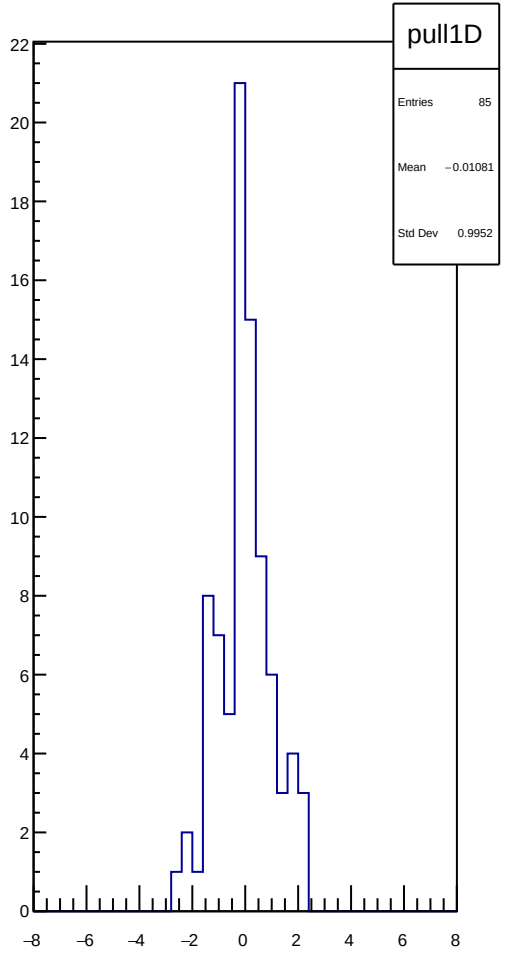

reg_asym_atl2_rms vs run
χ^2 / ndf 6029 / 84
p0 2186 ± 1.722
3200
3000
2800
2600
2400
2200
2000

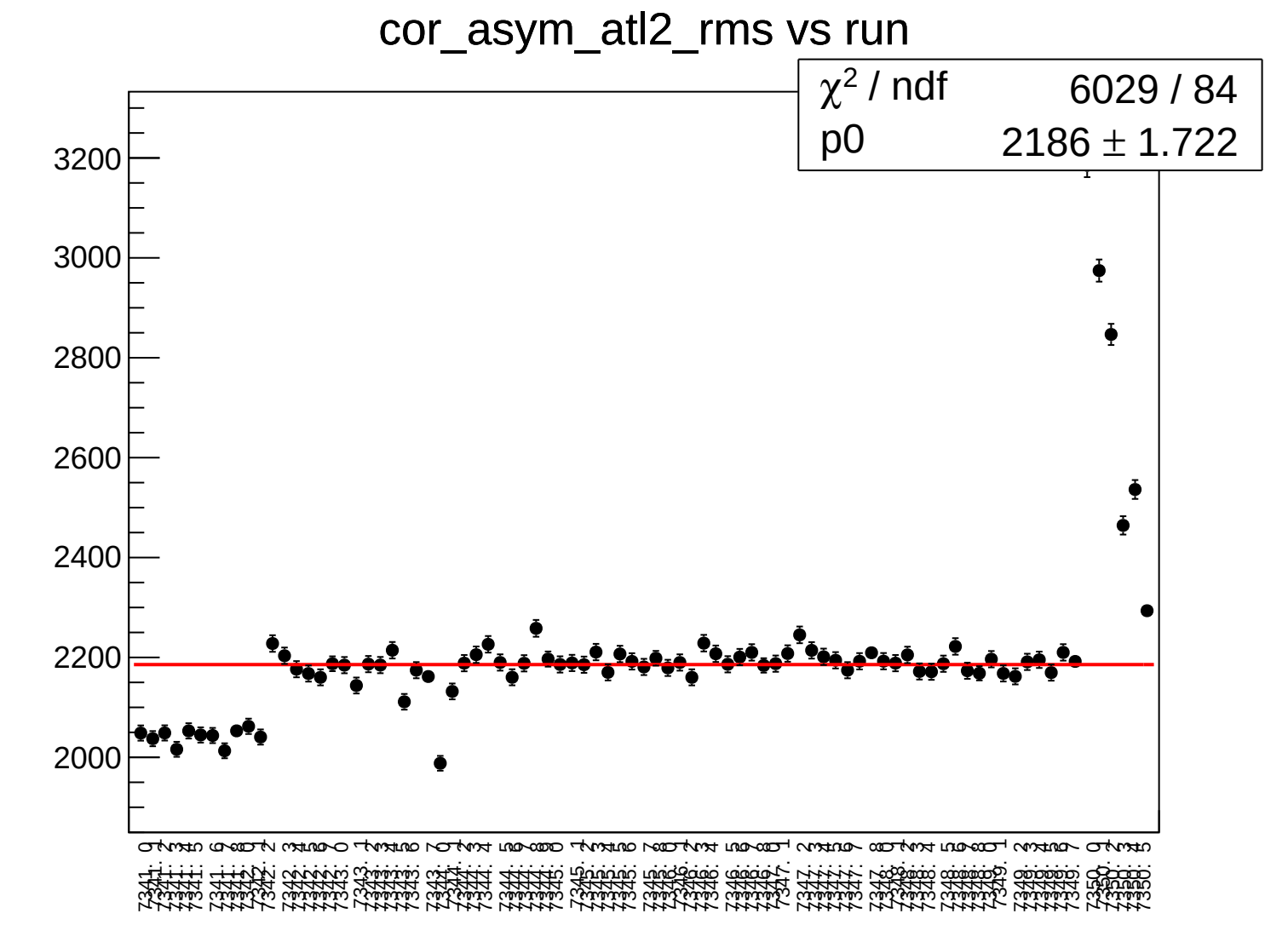

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 72.73 / 84
p0 −8177 ± 1.458e+04
pull
Entries 85
Mean −110.9
Std Dev 0

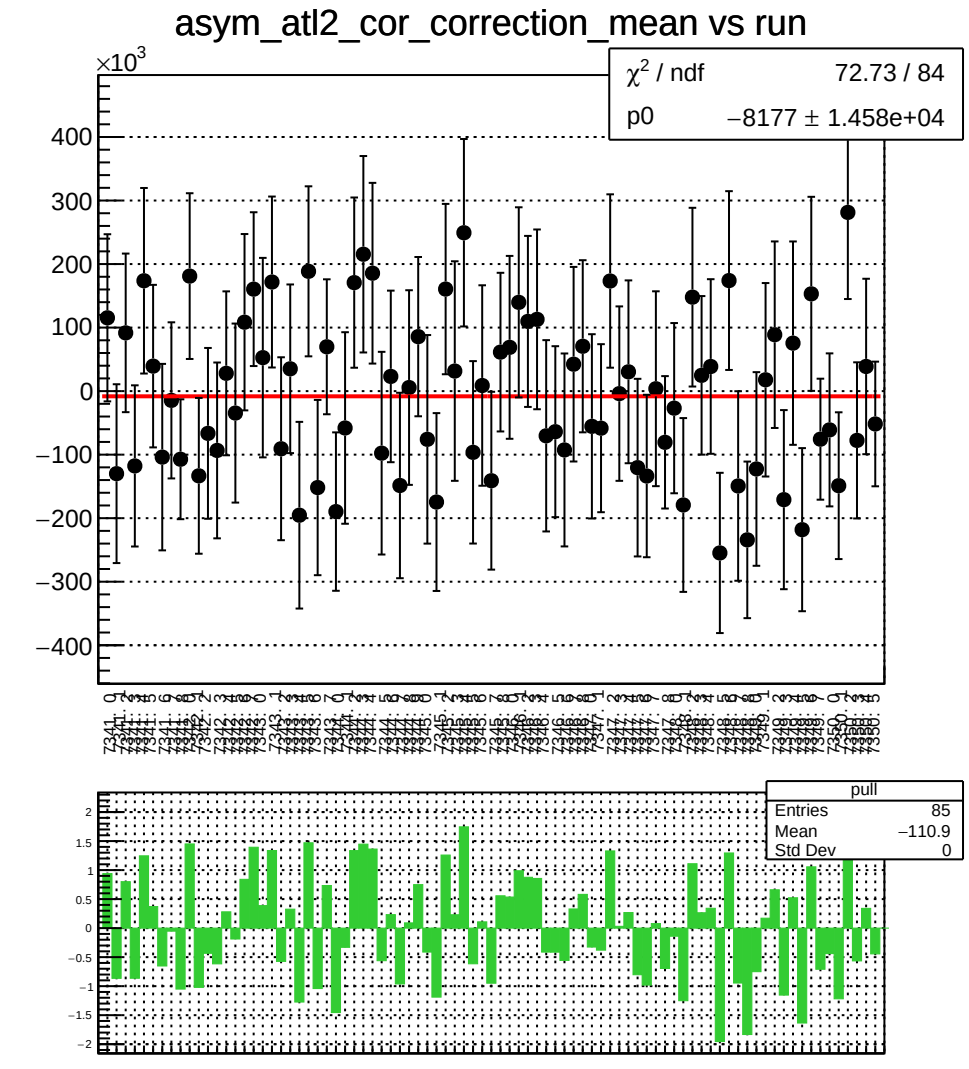

pull1D
Entries 85
Mean 0.02051
Std Dev 0.9248

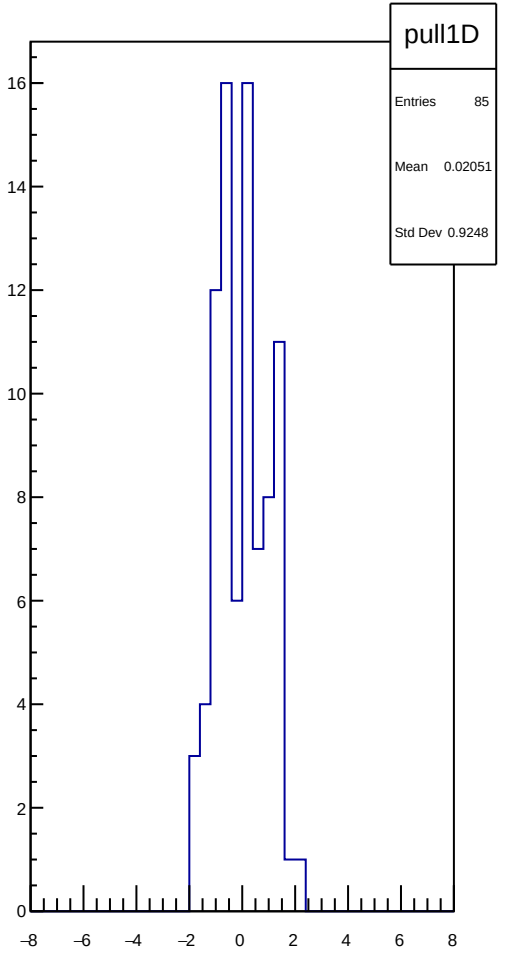

asym_atl2_reg_correction_rms vs run
χ² / ndf 9351 / 84
p0 1.307e+04 ± 10.31
17000
16000
15000
14000
13000
12000
11000

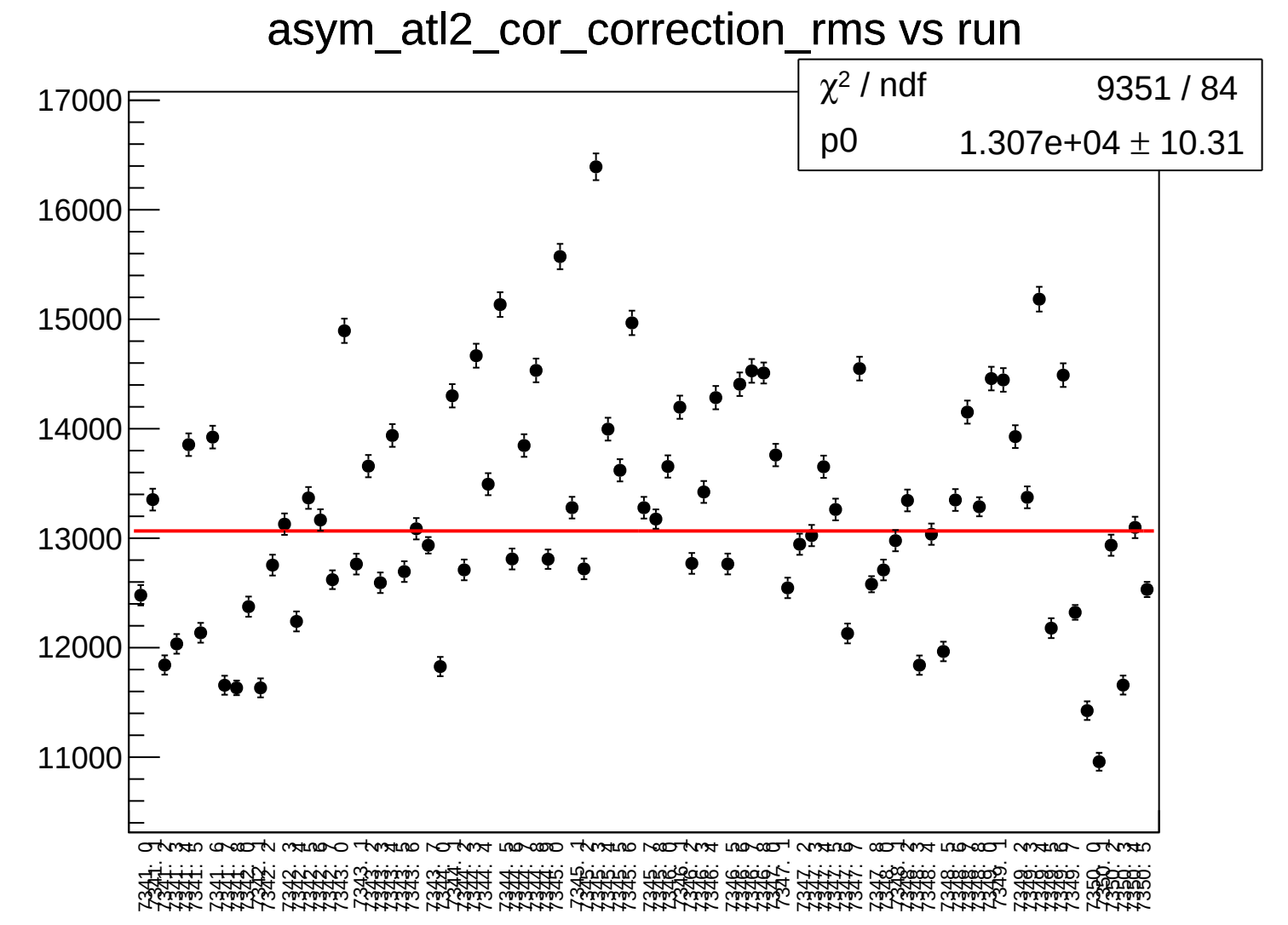

cor_asym_atl2_mean vs run
χ² / ndf 84.19 / 84
p0 2535 ± 2436
pull
Entries 85
Mean −324.1
Std Dev 0

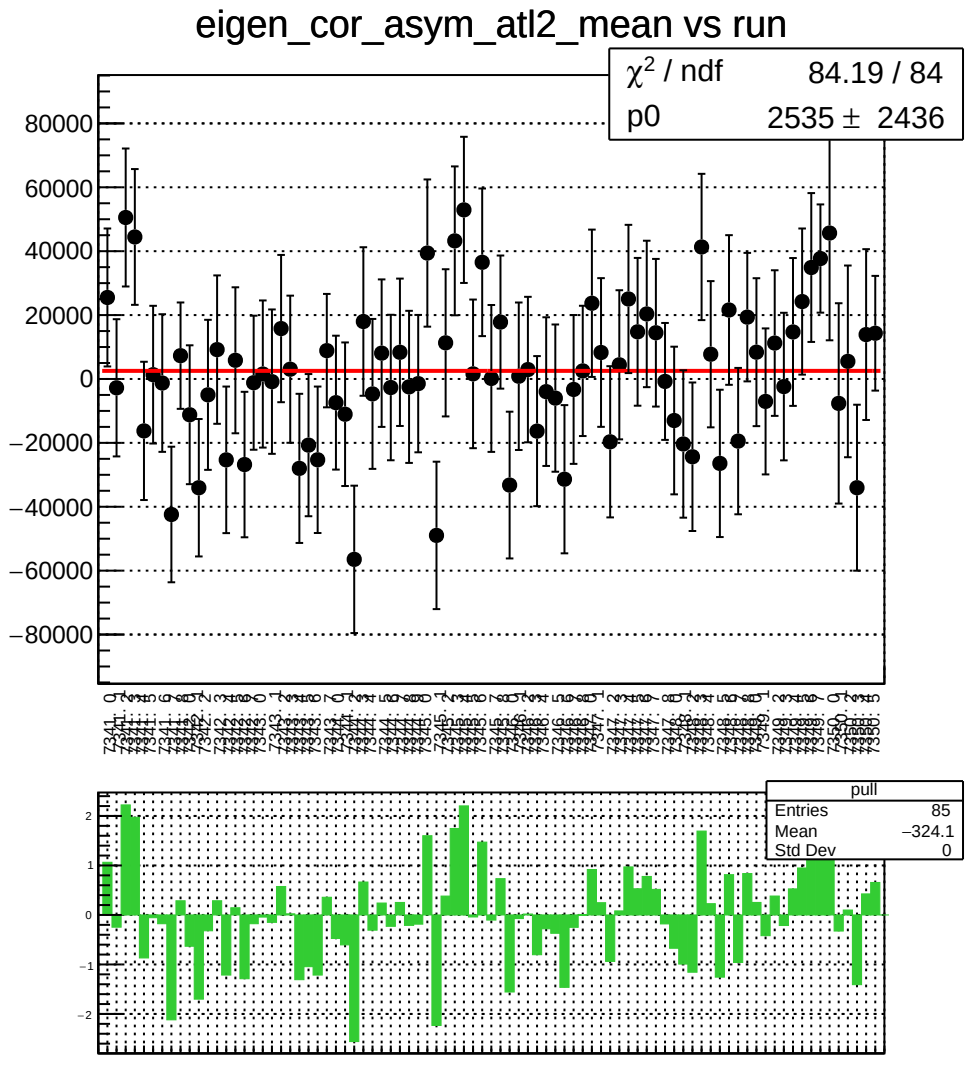

pull1D
Entries 85
Mean −0.01081
Std Dev 0.9952

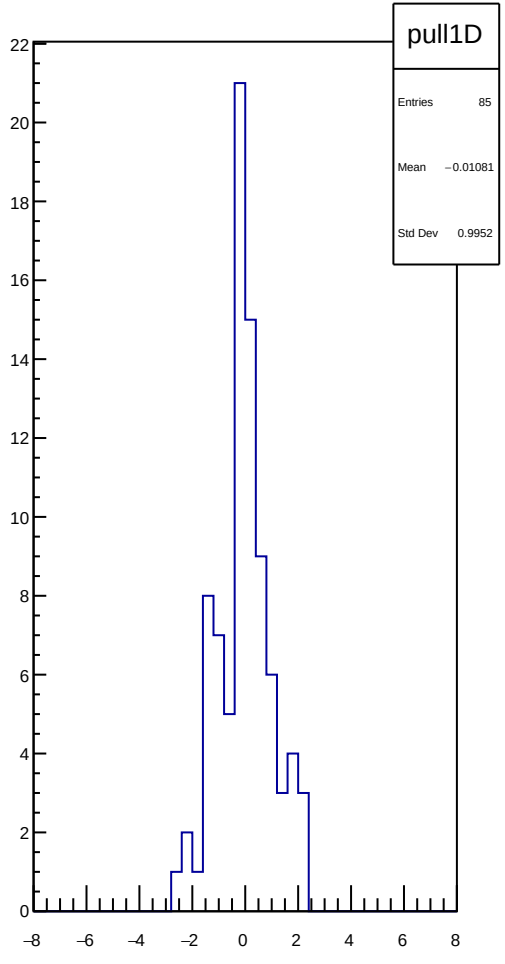

cor_asym_atl2_rms vs run
χ^2 / ndf 6029 / 84
p0 2186 ± 1.722
3200
3000
2800
2600
2400
2200
2000

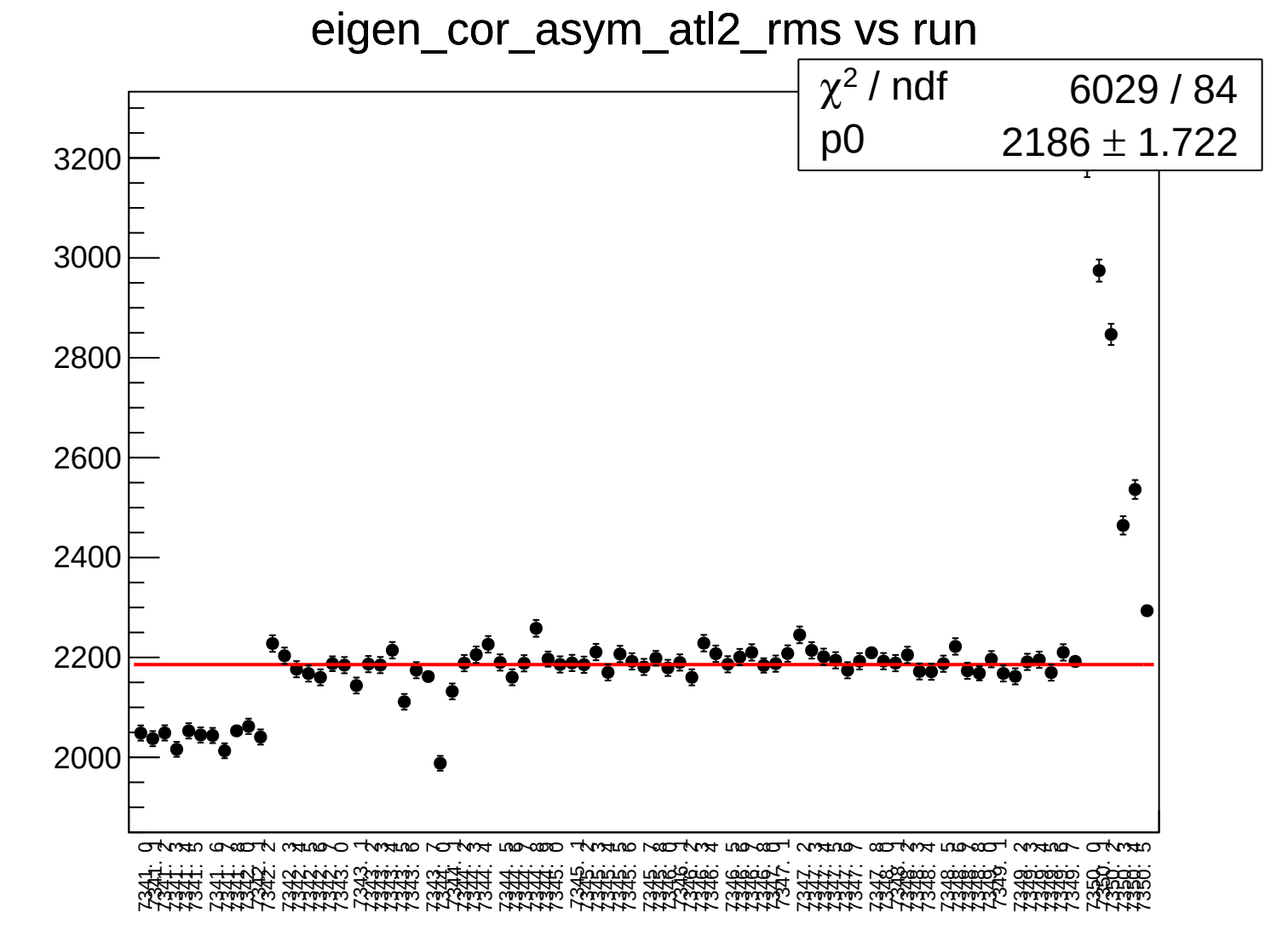

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 72.73 / 84
p0 −8177 ± 1.458e+04
pull
Entries 85
Mean −110.9
Std Dev 0

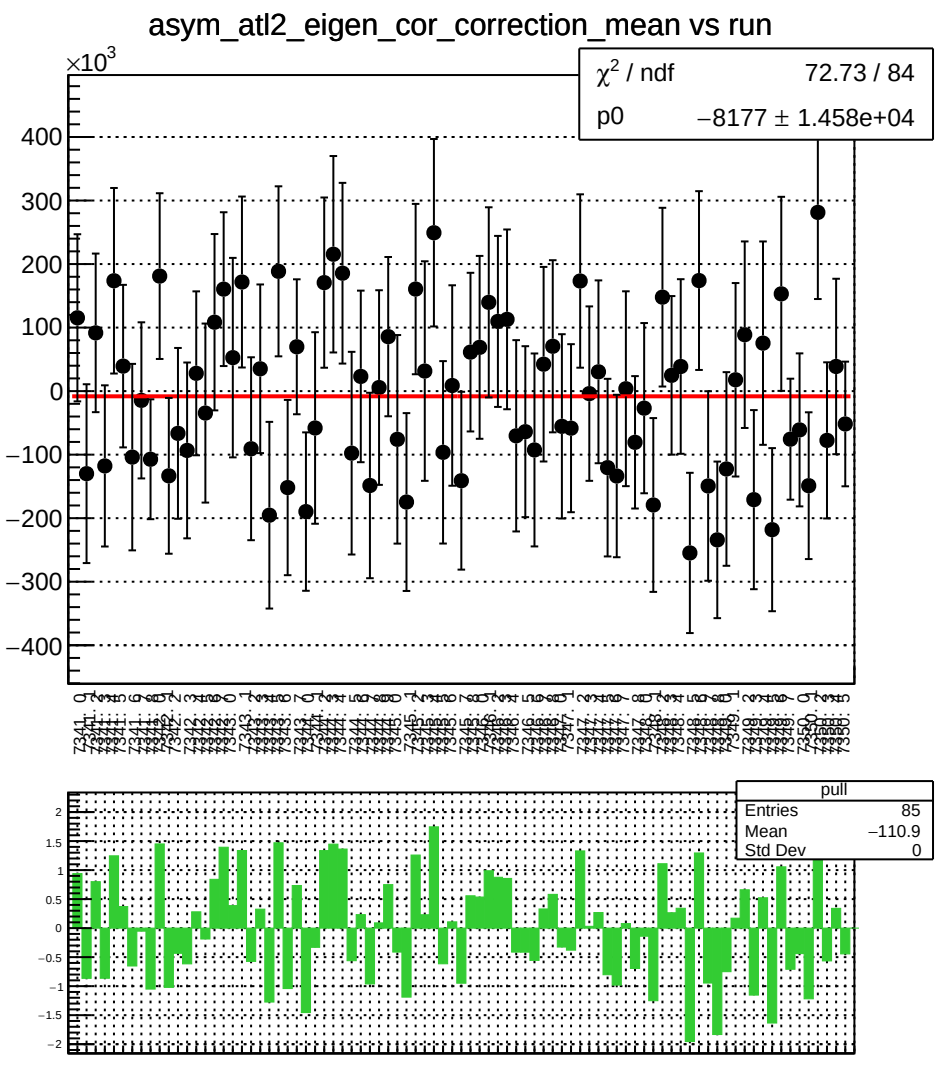

pull1D
Entries 85
Mean 0.02051
Std Dev 0.9248

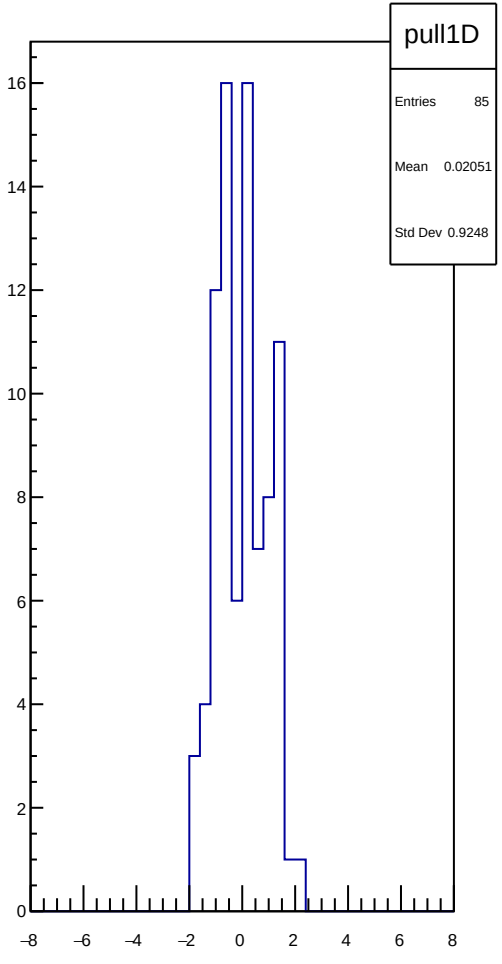

asym_atl2_cor_correction_rms vs run
χ² / ndf 9351 / 84
p0 1.307e+04 ± 10.31
17000
16000
15000
14000
13000
12000
11000

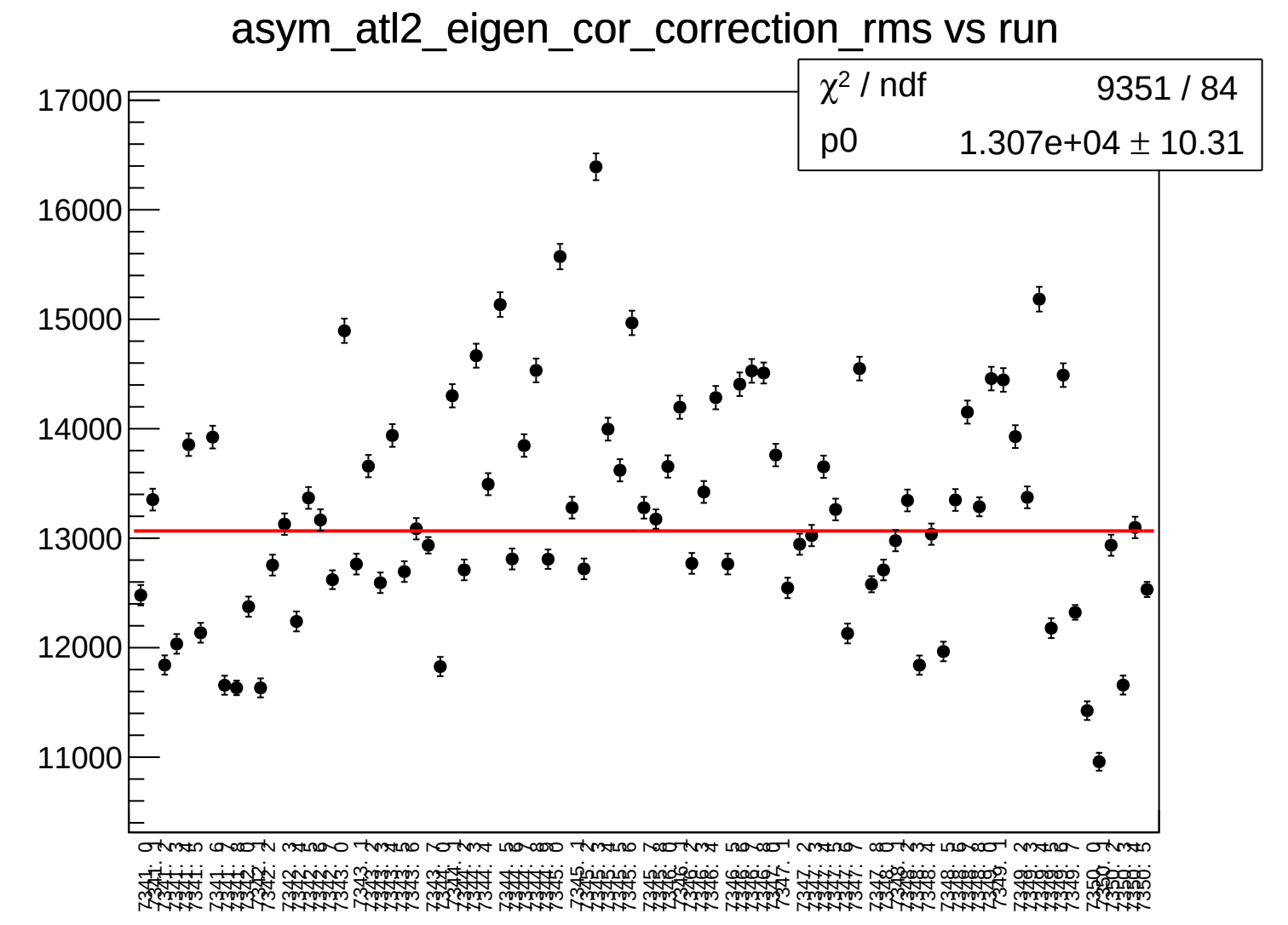

eigen_cor_asym_atl2_mean vs run
χ² / ndf 84.19 / 84
p0 2535 ± 2436
pull
Entries 85
Mean −324.1
Std Dev 0

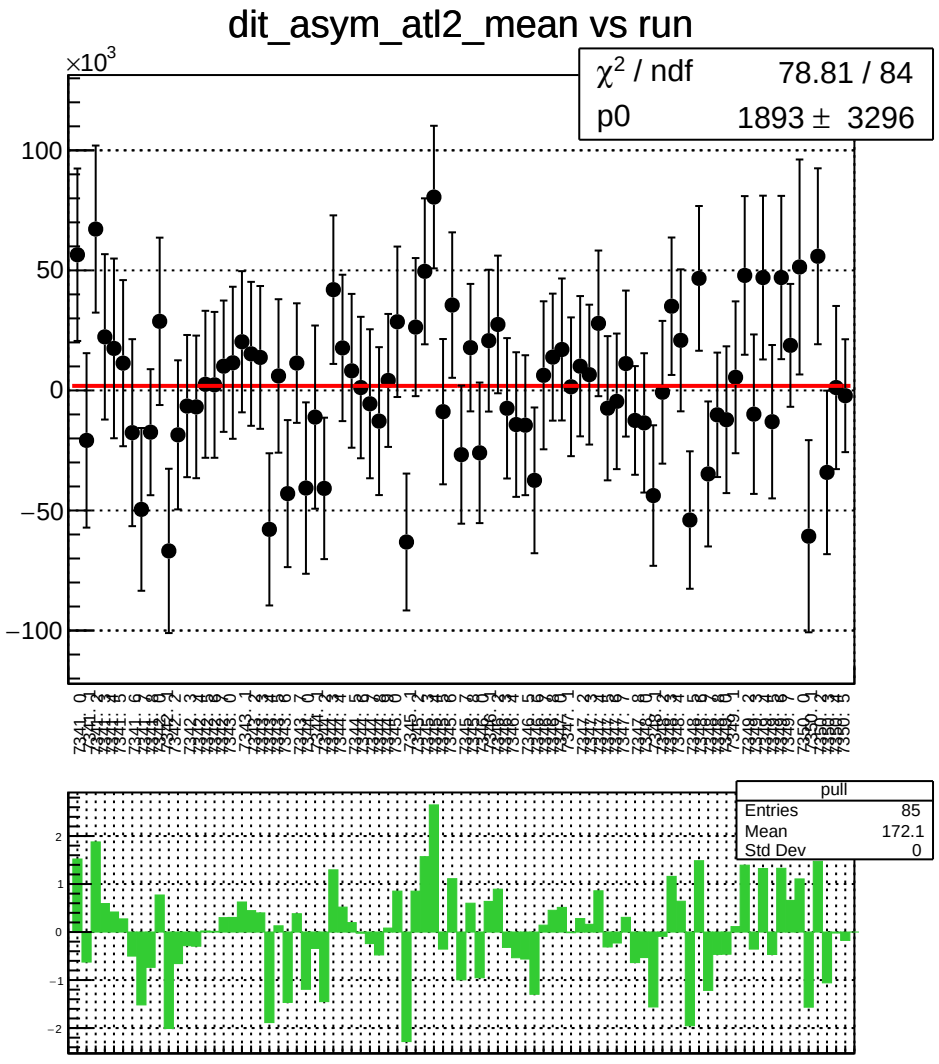

pull1D
Entries 85
Mean −0.01081
Std Dev 0.9952

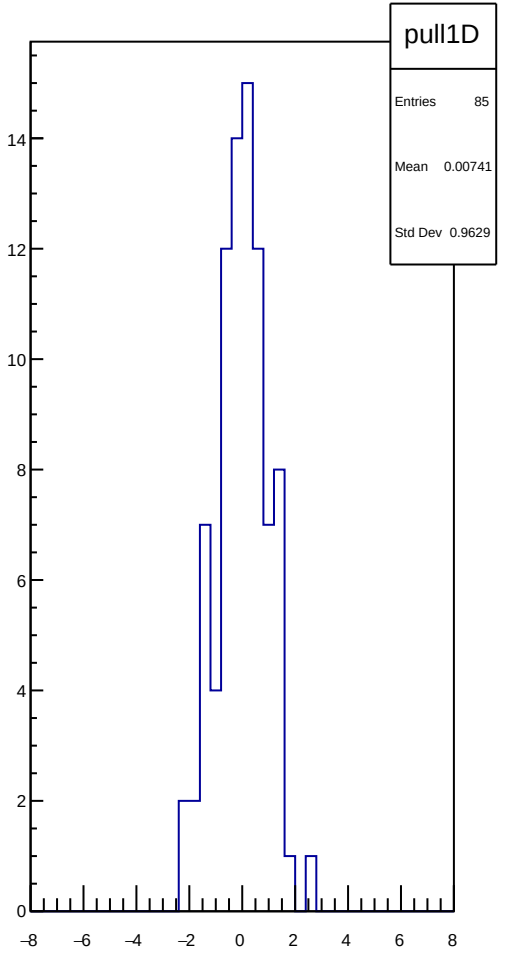

eigen_cor_asym_atl2_rms vs run
χ^2 / ndf 6029 / 84
p0 2186 ± 1.722
3200
3000
2800
2600
2400
2200
2000

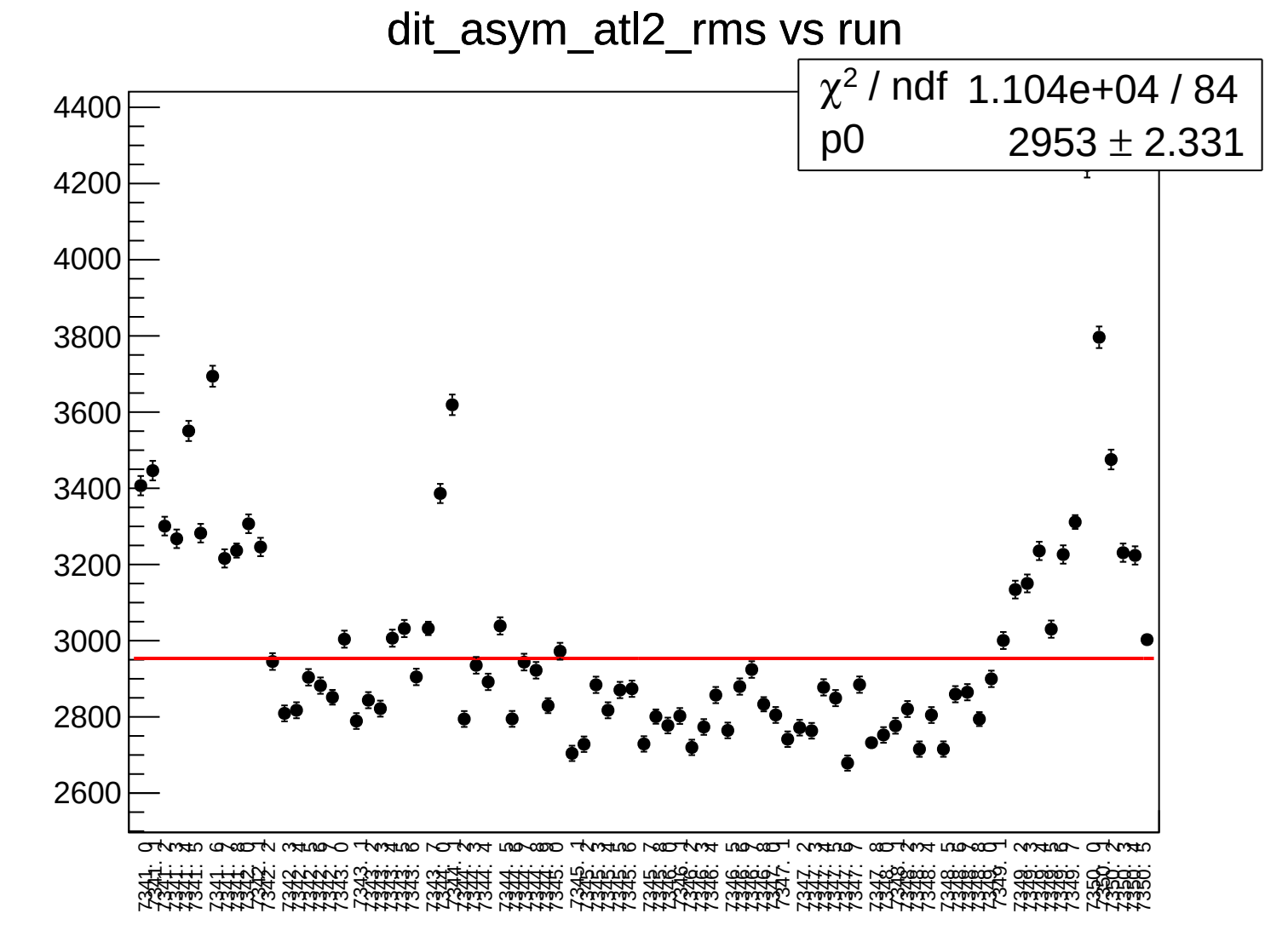

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.73 / 84
p0 −8177 ± 1.458e+04
pull
Entries 85
Mean −110.9
Std Dev 0

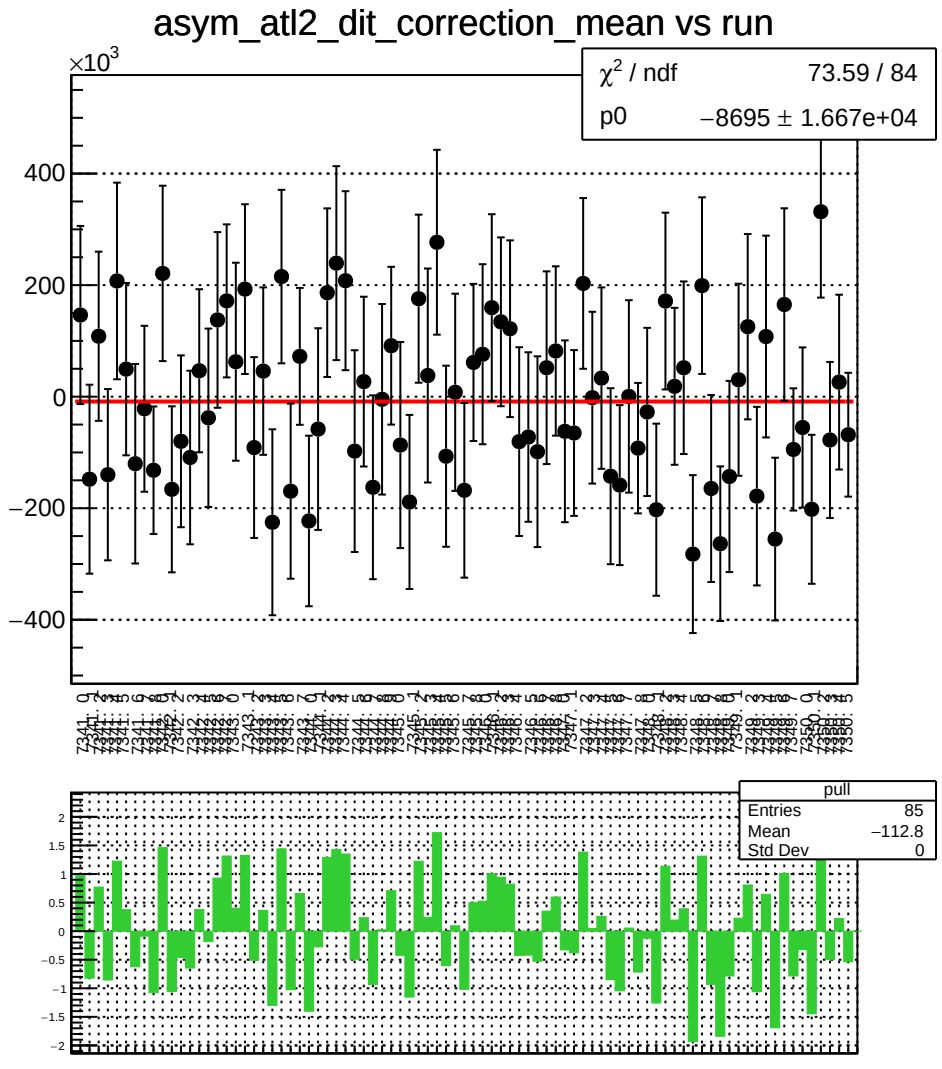

pull1D
Entries 85
Mean 0.02051
Std Dev 0.9248

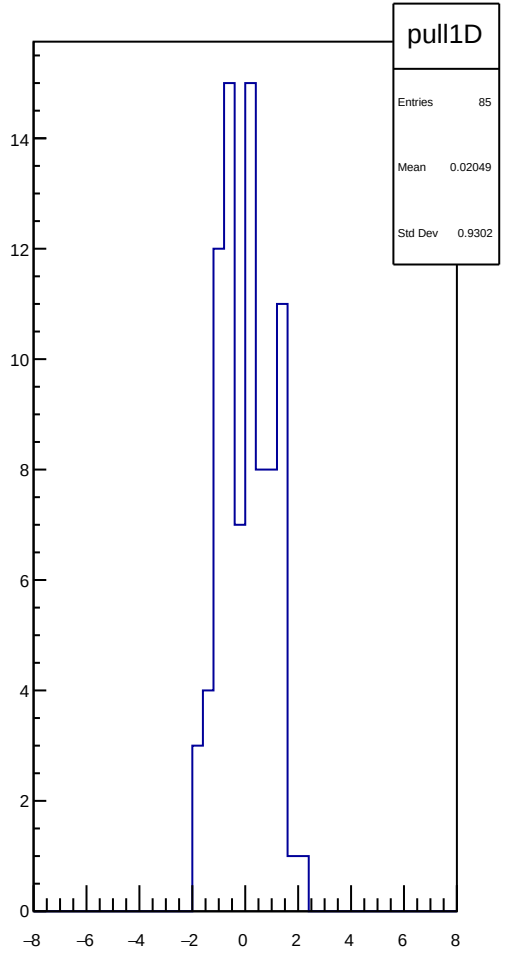

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 9351 / 84
p0 1.307e+04 ± 10.31
17000
16000
15000
14000
13000
12000
11000

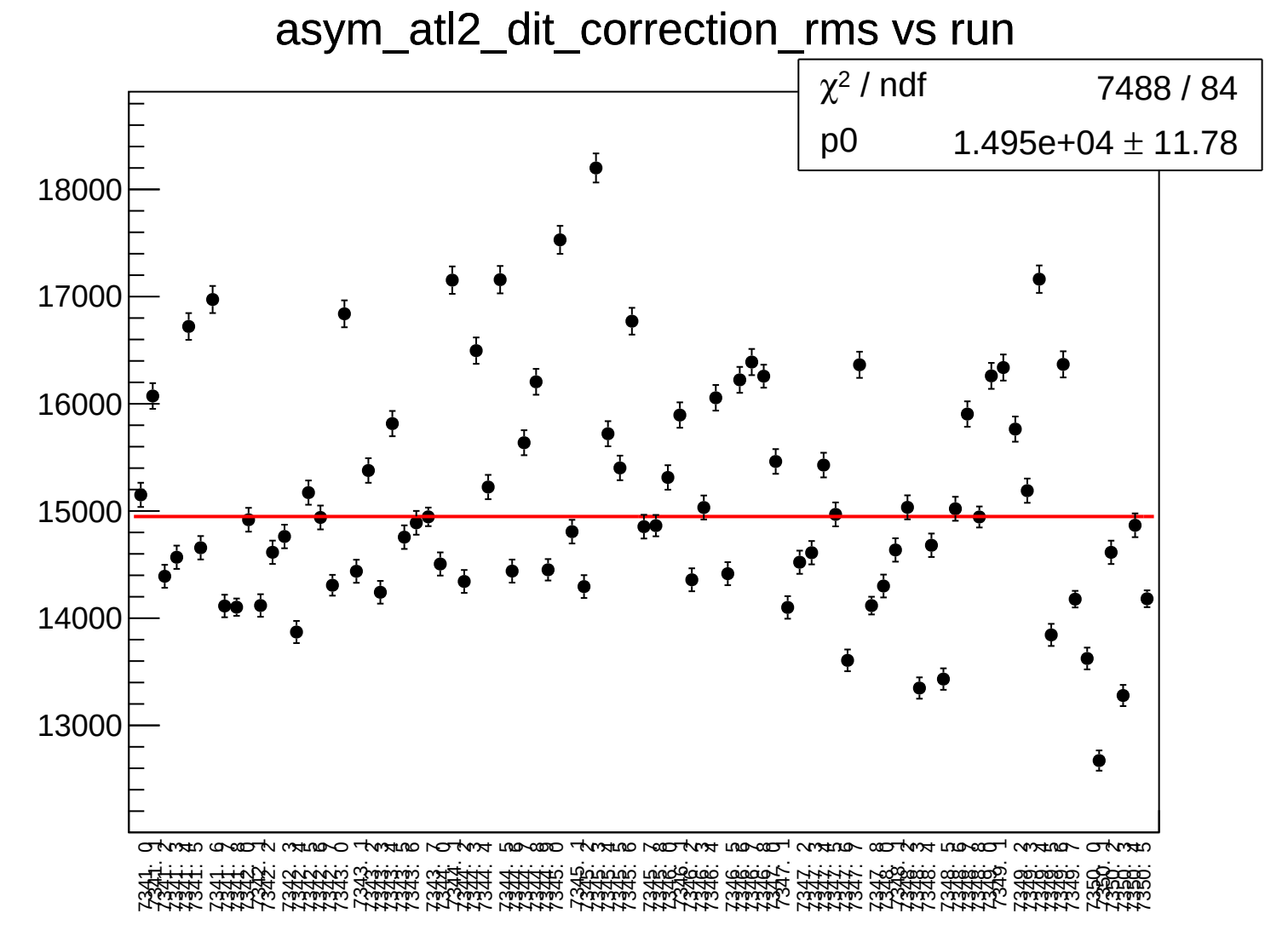

dit_asym_atl2_mean vs run
χ² / ndf 78.81 / 84
p0 1893 ± 3296
×10³
100
50
0
−50
−100
pull
Entries 85
Mean 172.1
Std Dev 0

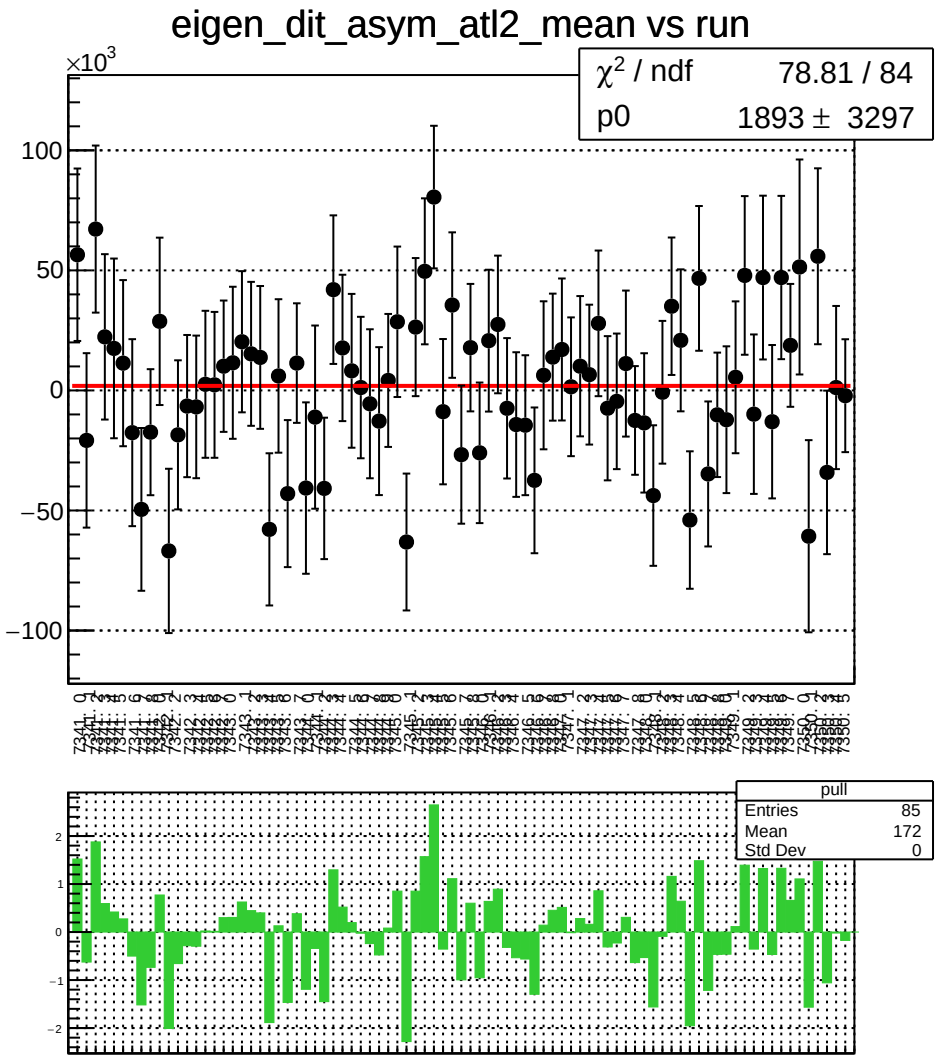

pull1D
Entries 85
Mean 0.00741
Std Dev 0.9629
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

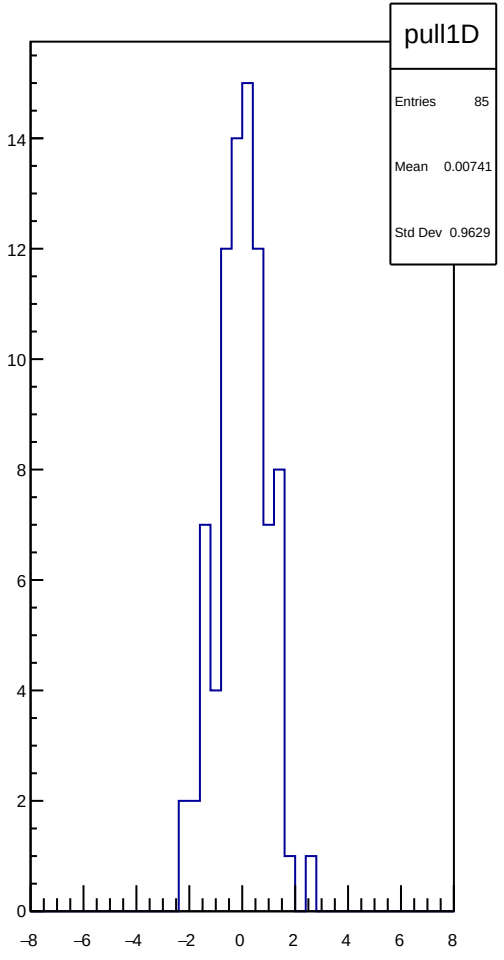

dit_asym_atl2_rms vs run
χ^2 / ndf 1.104e+04 / 84
p0 2953 ± 2.331
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

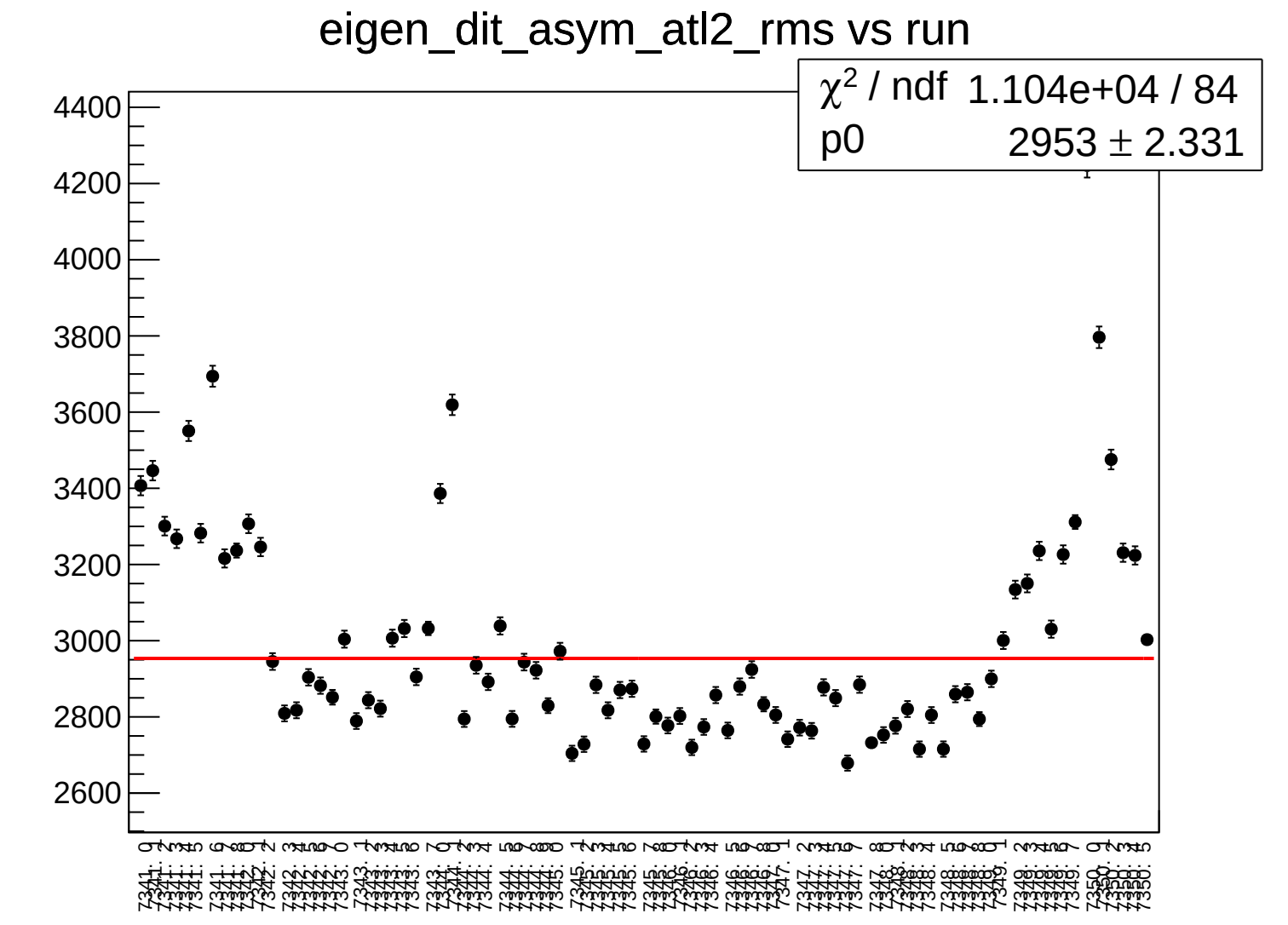

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 73.59 / 84
p0 −8695 ± 1.667e+04
400
200
0
−200
−400
pull
Entries 85
Mean −112.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

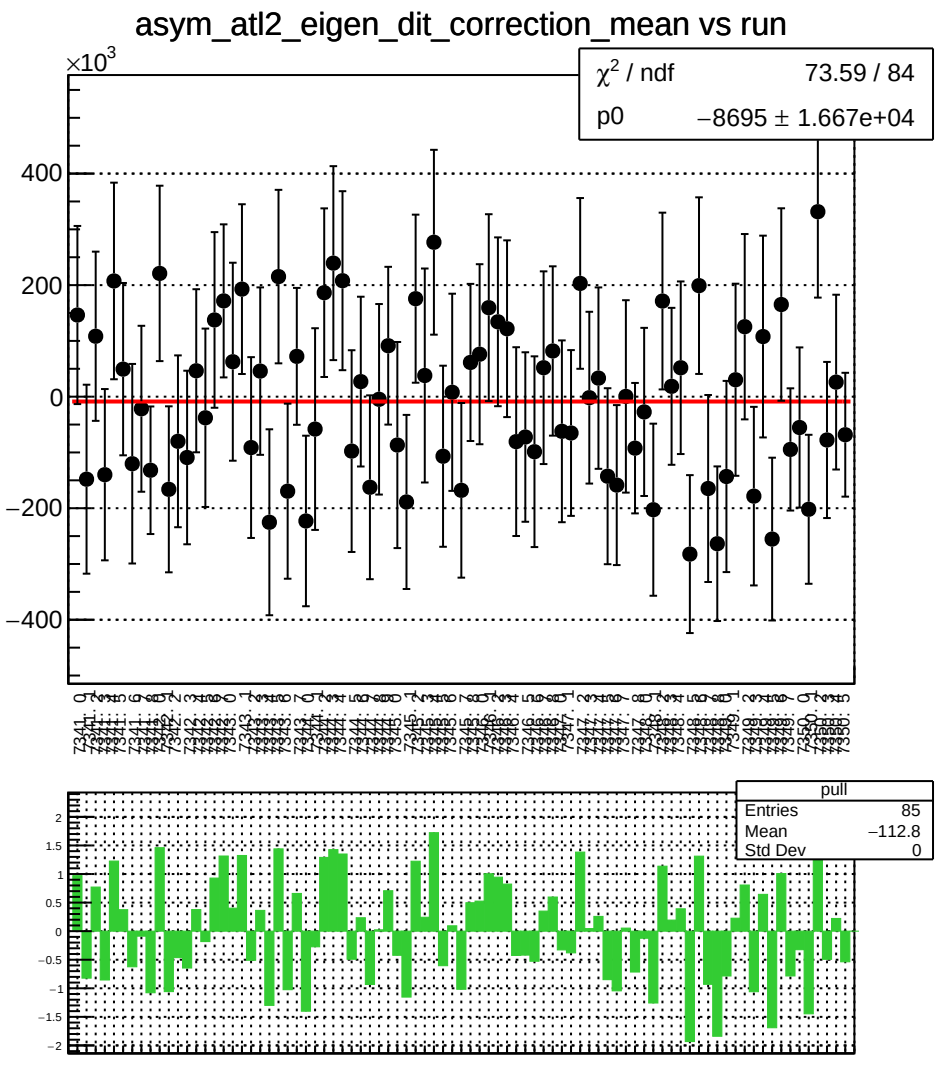

pull1D
Entries 85
Mean 0.02049
Std Dev 0.9302
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

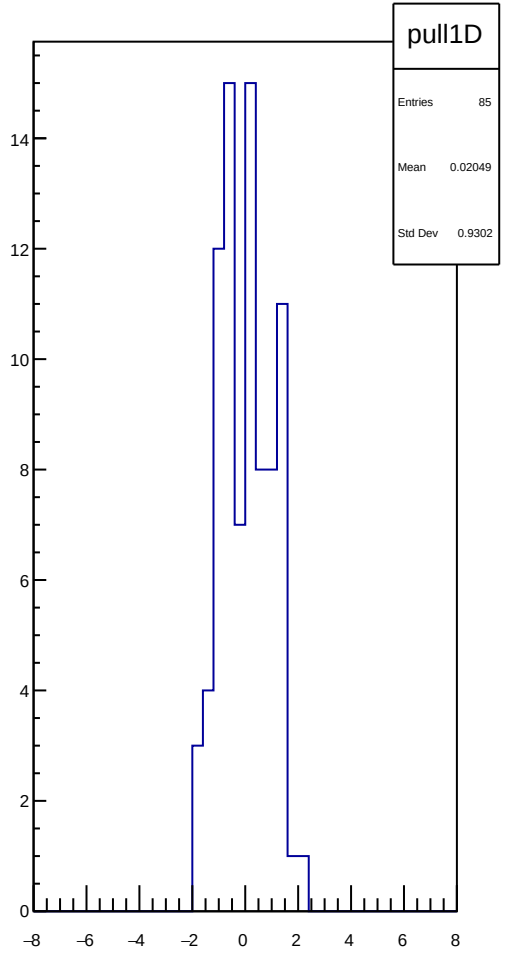

asym_atl2_dit_correction_rms vs run
χ² / ndf 7488 / 84
p0 1.495e+04 ± 11.78
18000
17000
16000
15000
14000
13000

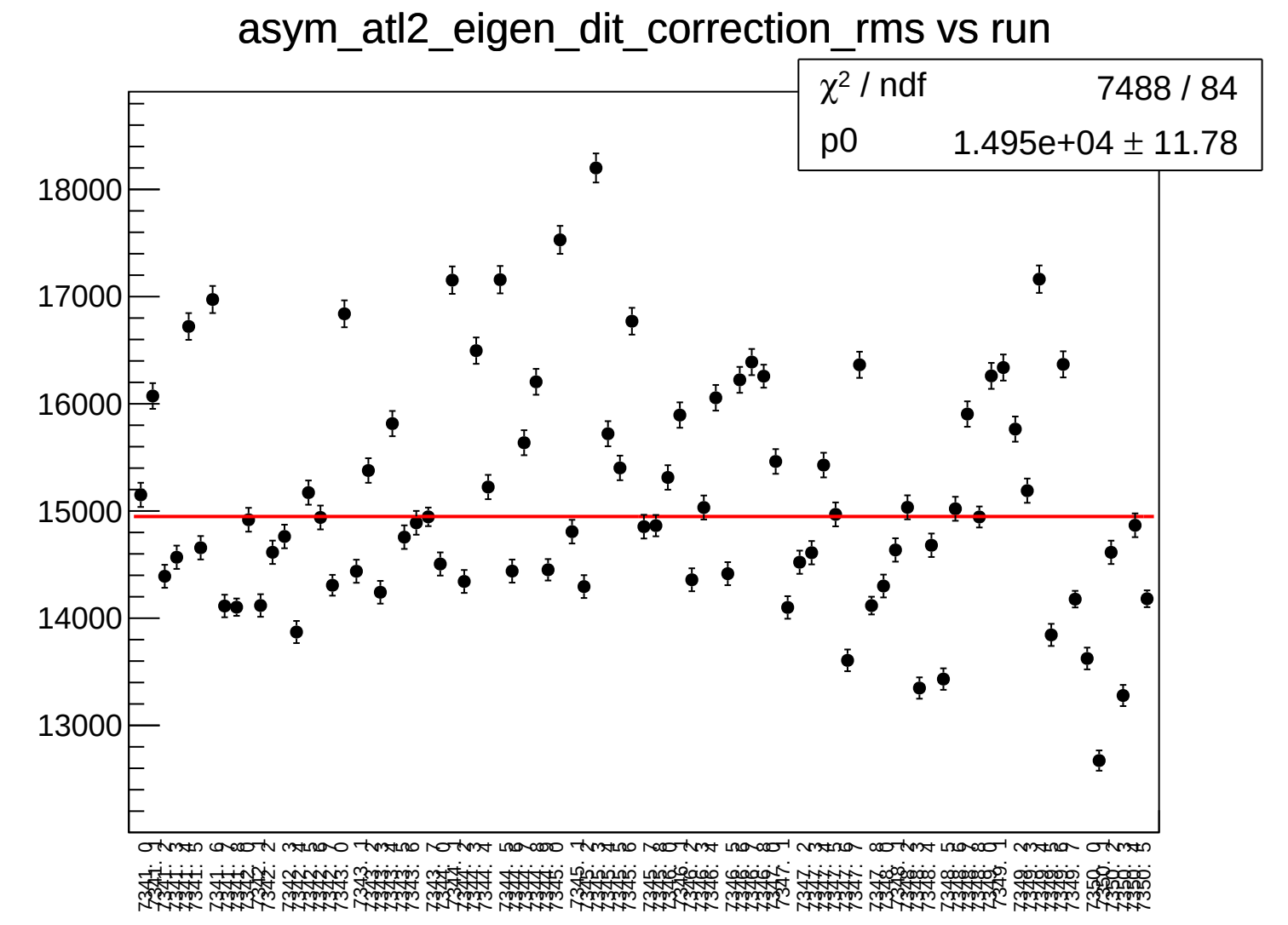

eigen_dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 78.81 / 84
p0 1893 ± 3297
100
50
0
−50
−100
pull
Entries 85
Mean 172
Std Dev 0
2
1
0
−1
−2

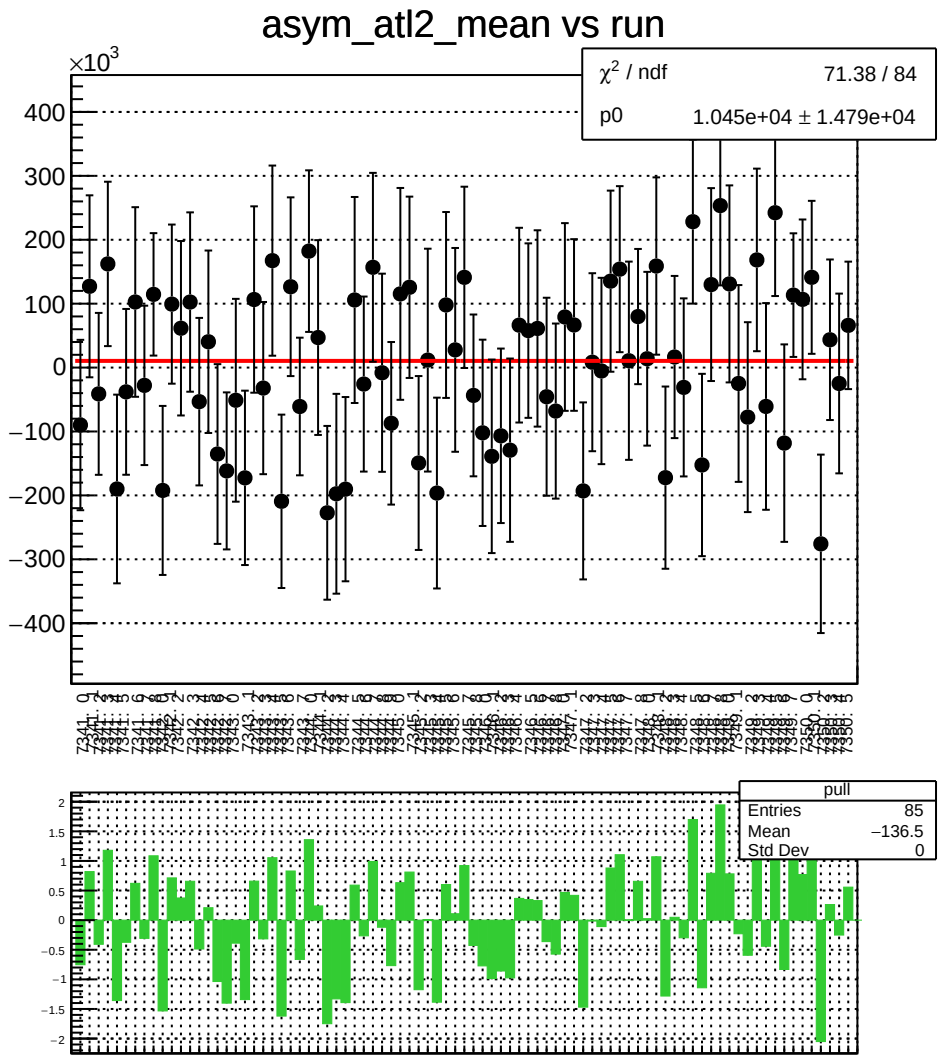

pull1D
Entries 85
Mean 0.00741
Std Dev 0.9629
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

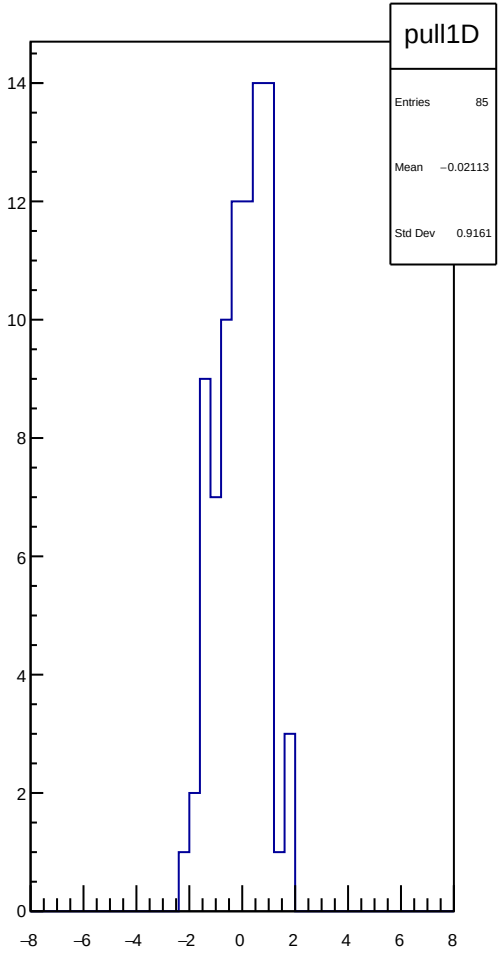

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 1.104e+04 / 84
p0 2953 ± 2.331
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

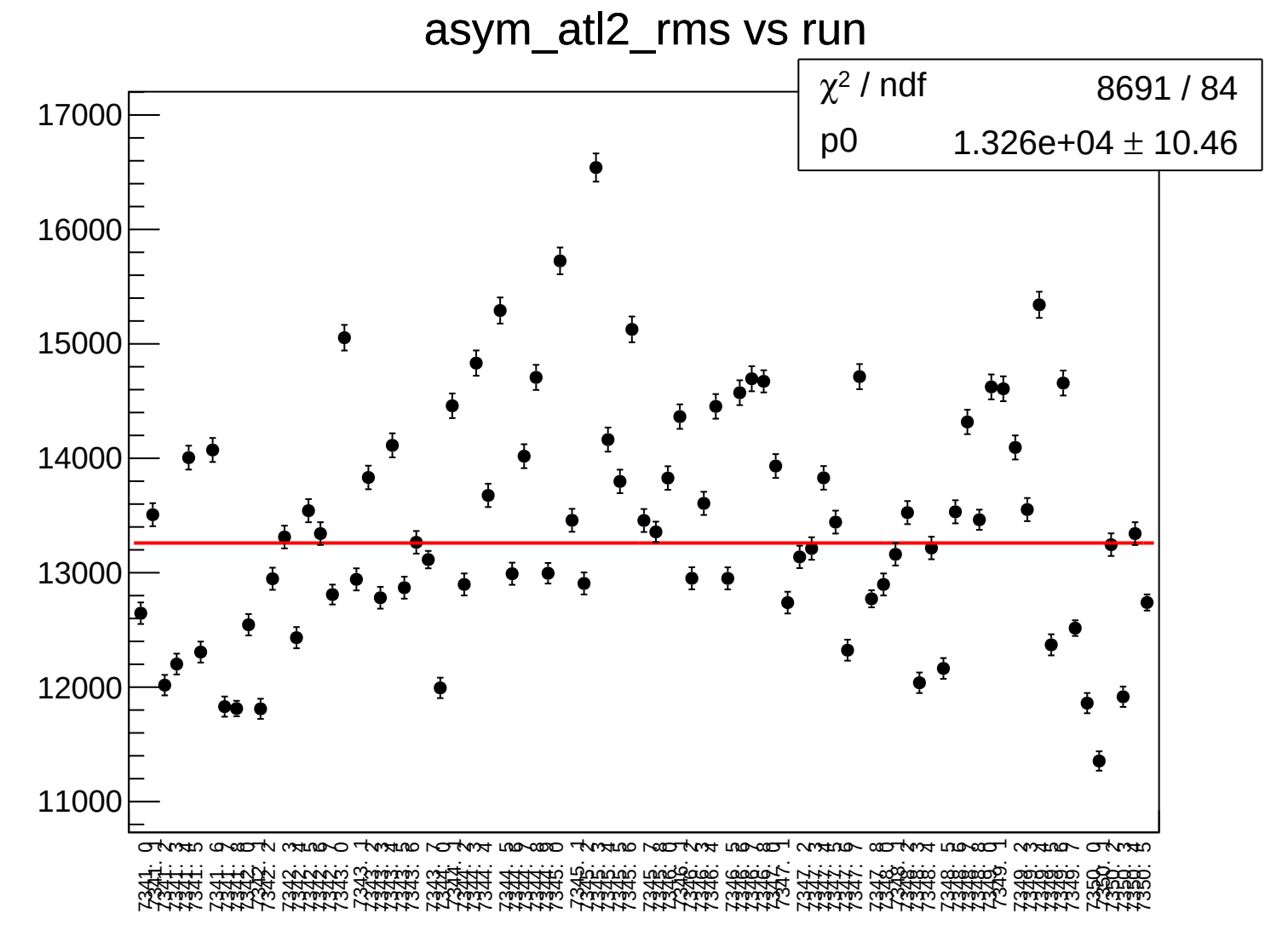

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.59 / 84
p0 −8695 ± 1.667e+04
400
200
0
−200
−400
pull
Entries 85
Mean −112.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

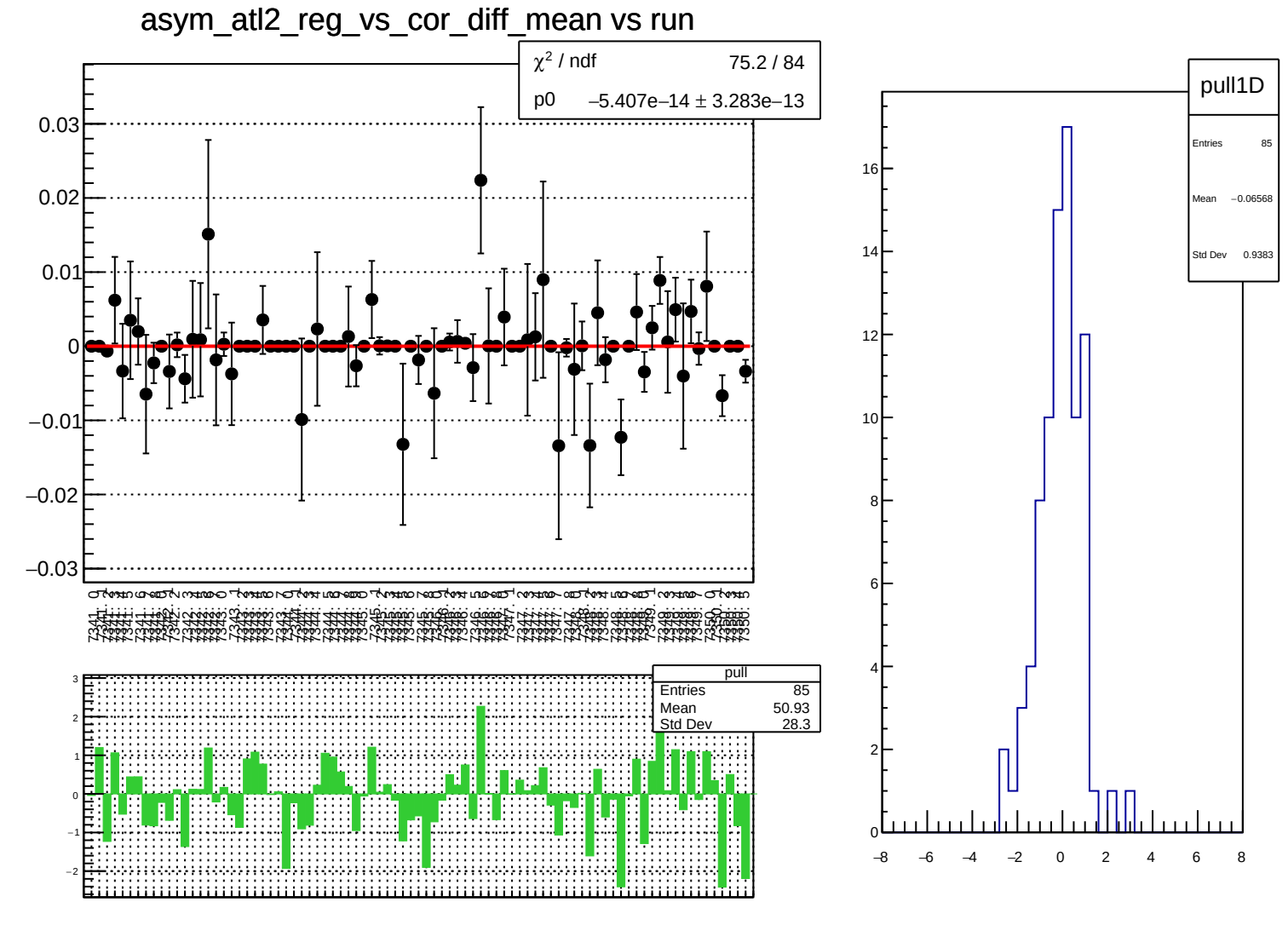

pull1D
Entries 85
Mean 0.02049
Std Dev 0.9302
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

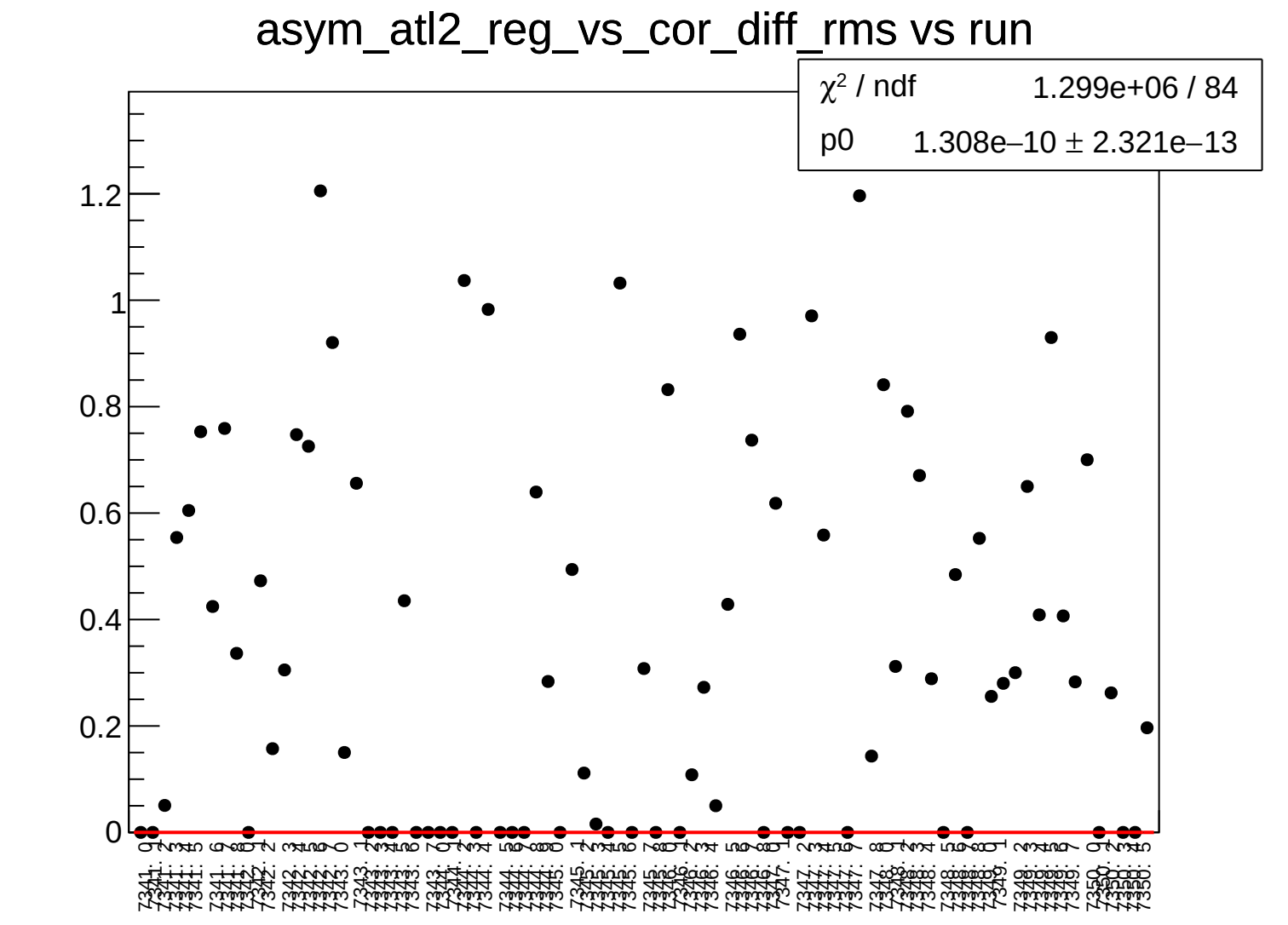

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 7488 / 84
p0 1.495e+04 ± 11.78
18000
17000
16000
15000
14000
13000

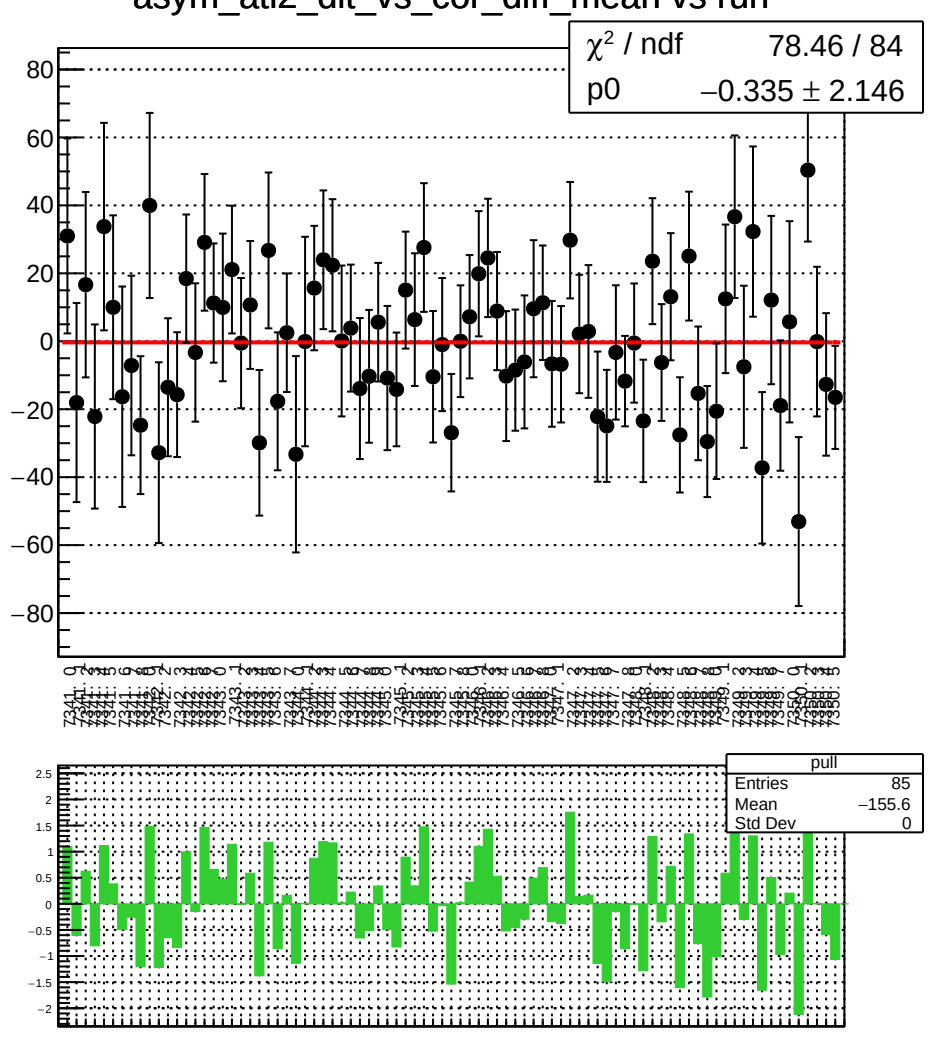

asym_atl2_mean vs run
×10^3
χ² / ndf 71.38 / 84
p0 1.045e+04 ± 1.479e+04
pull
Entries 85
Mean −136.5
Std Dev 0

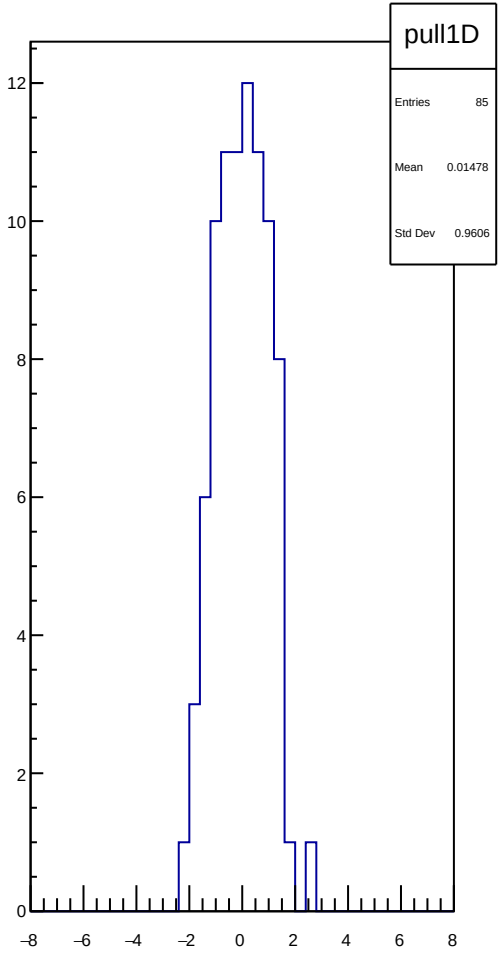

pull1D
Entries 85
Mean −0.02113
Std Dev 0.9161

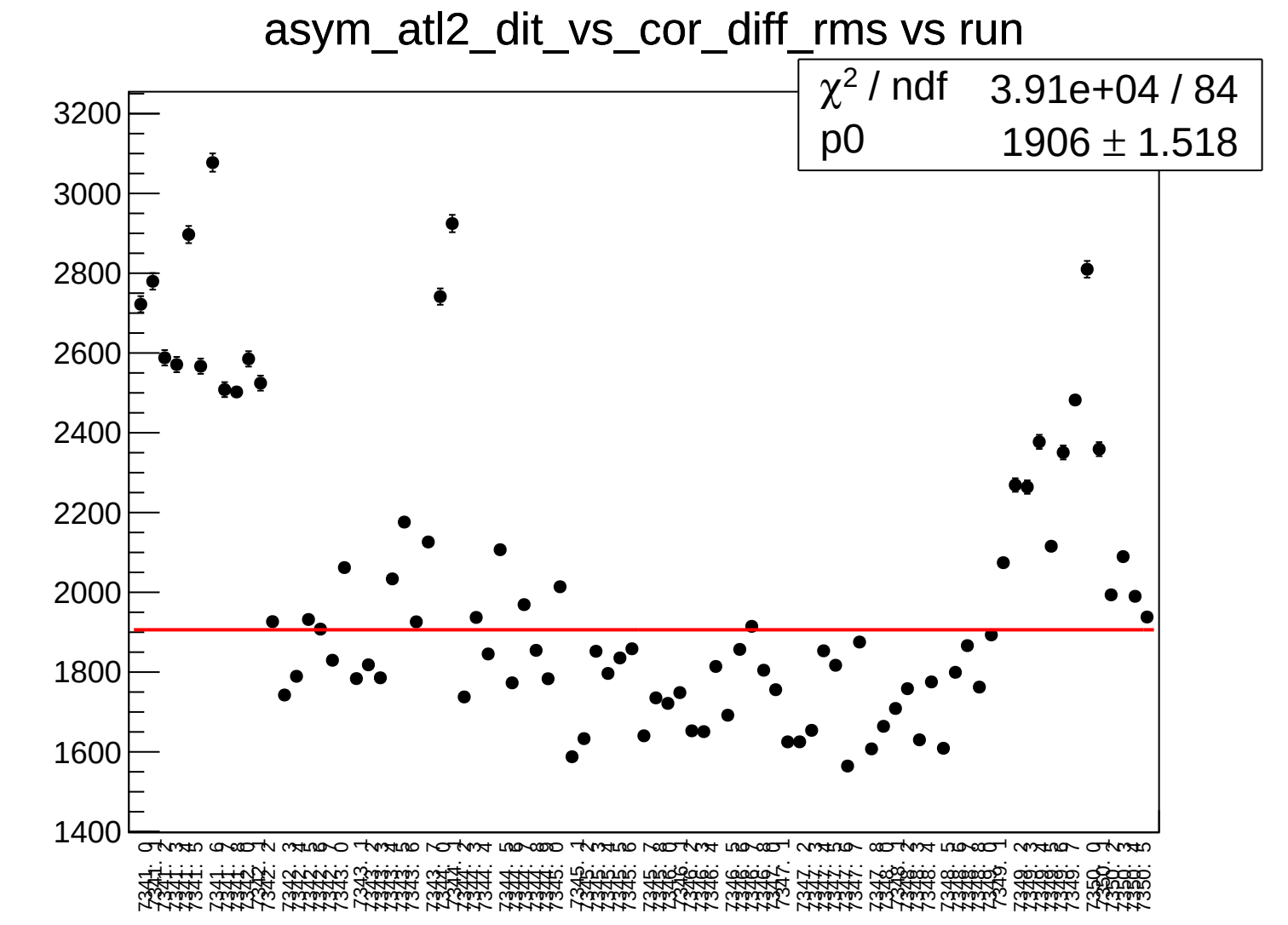

asym_atl2_rms vs run
χ² / ndf 8691 / 84
p0 1.326e+04 ± 10.46
17000
16000
15000
14000
13000
12000
11000

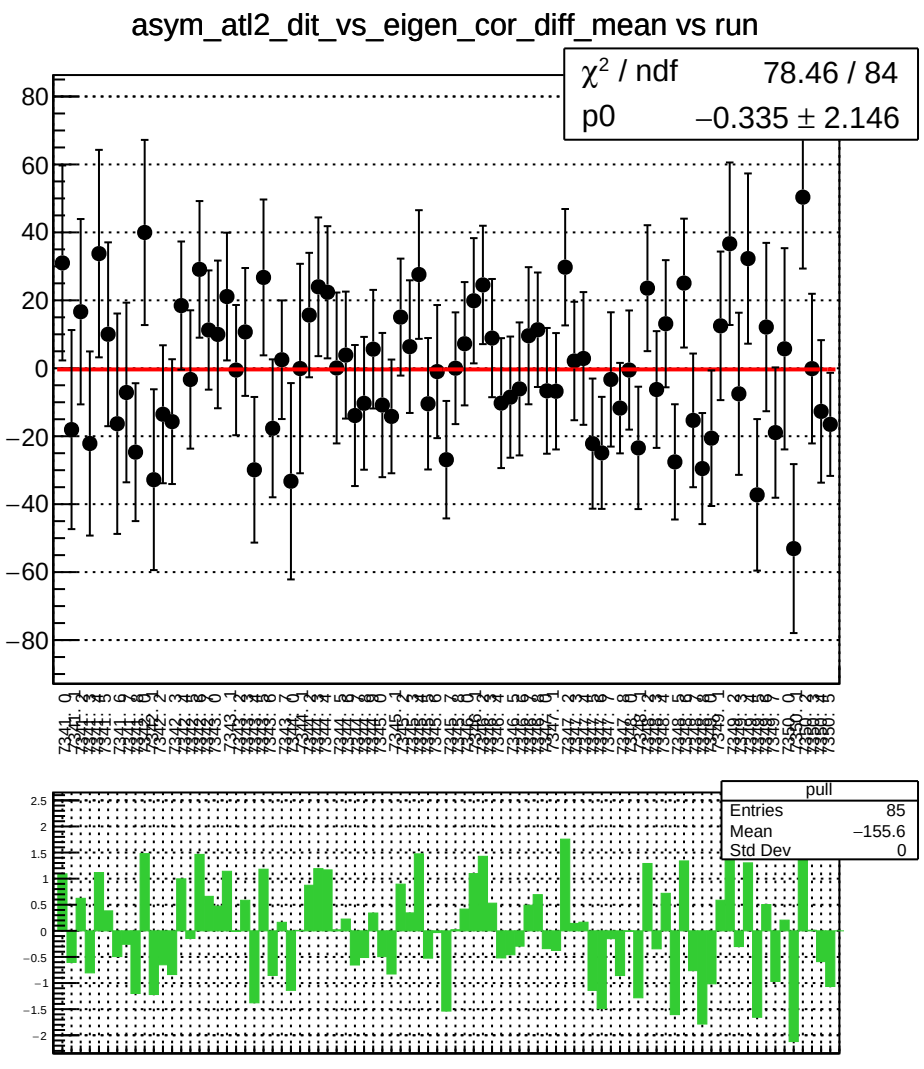

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 75.2 / 84
p0 −5.407e−14 ± 3.283e−13
pull
Entries 85
Mean 50.93
Std Dev 28.3
pull1D
Entries 85
Mean −0.06568
Std Dev 0.9383

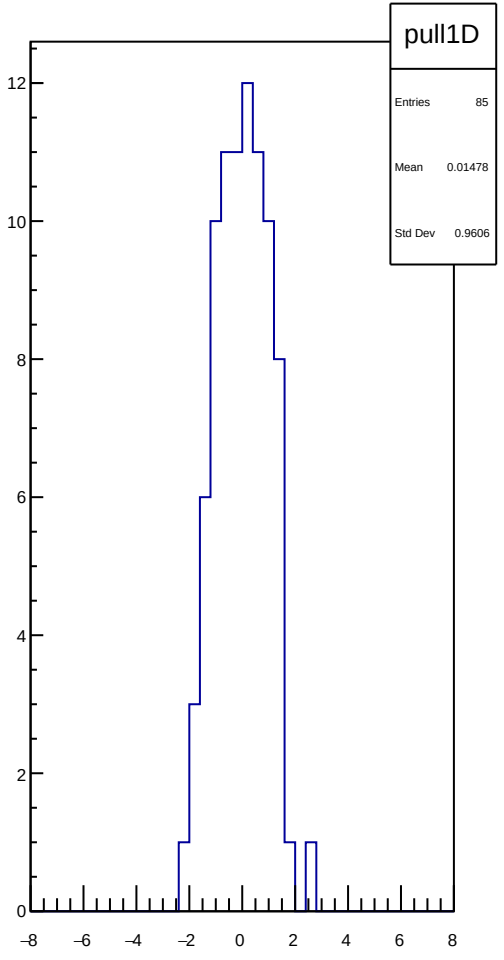

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.299e+06 / 84
p0 1.308e−10 ± 2.321e−13
1.2
1
0.8
0.6
0.4
0.2
0

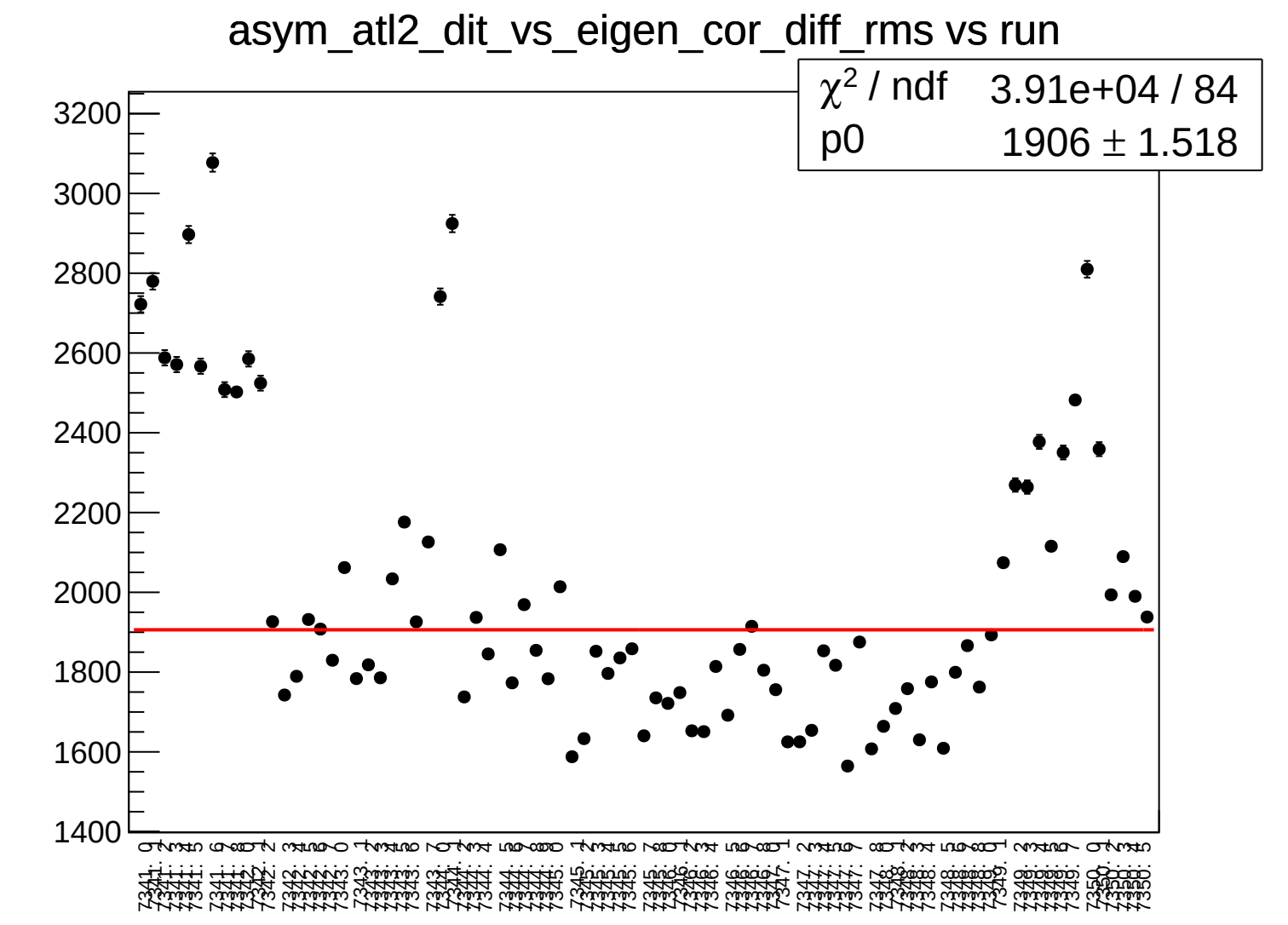

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 78.46 / 84
p0 −0.335 ± 2.146
pull
Entries 85
Mean −155.6
Std Dev 0

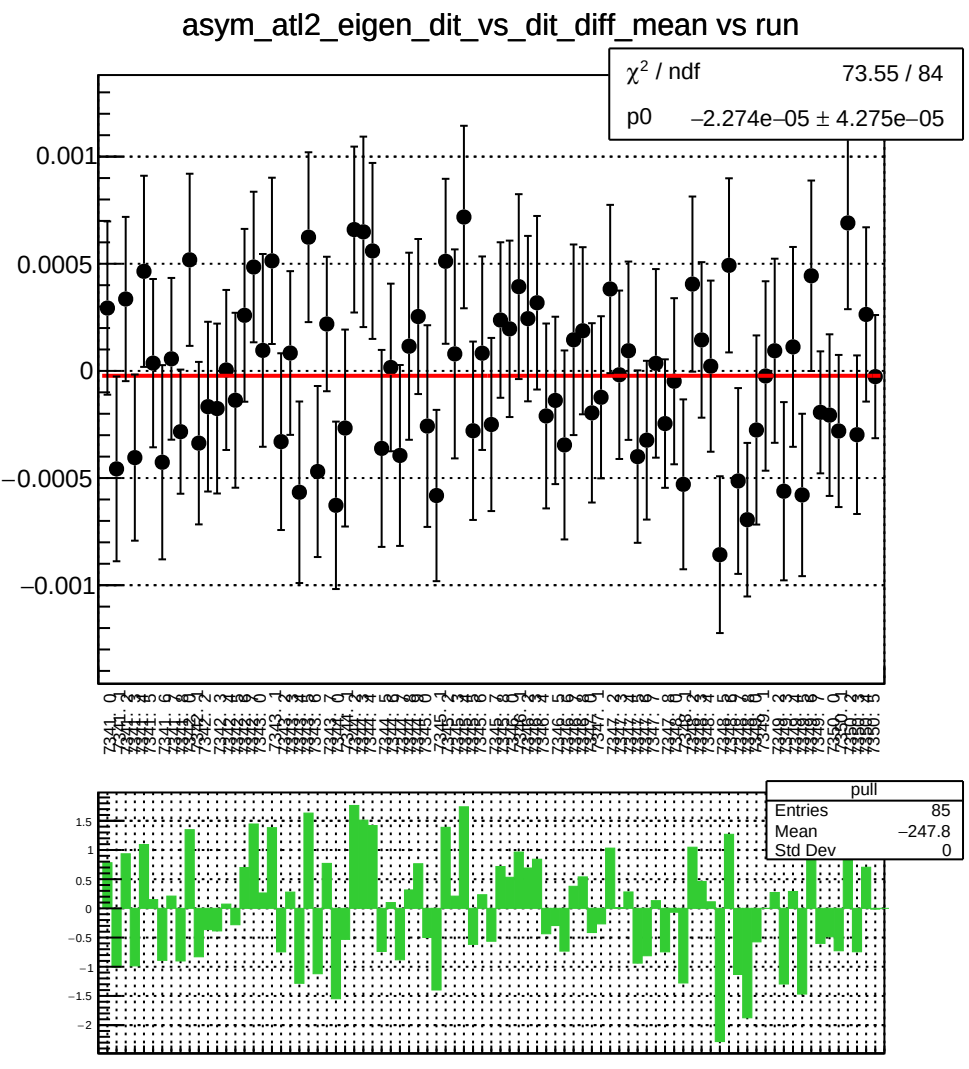

pull1D
Entries 85
Mean 0.01478
Std Dev 0.9606

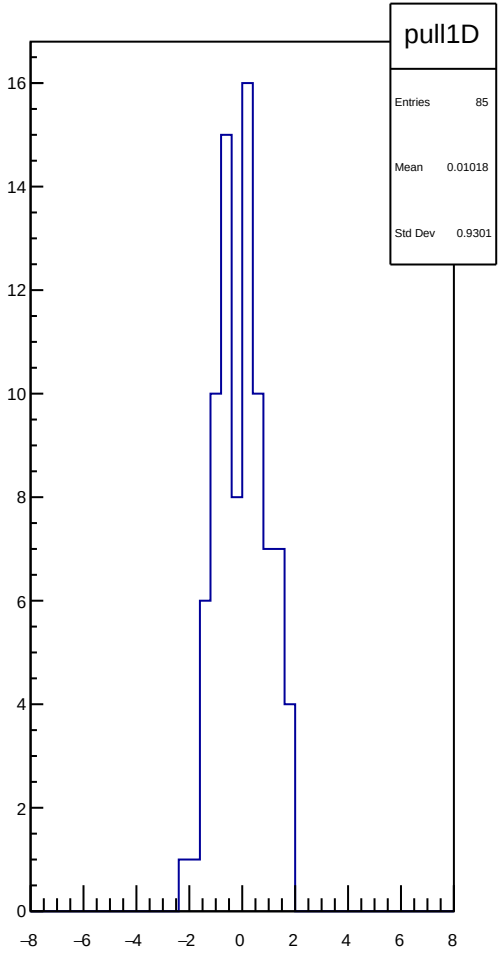

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.91e+04 / 84
p0 1906 ± 1.518
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400


asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.46 / 84
p0 −0.335 ± 2.146
pull
Entries 85
Mean −155.6
Std Dev 0

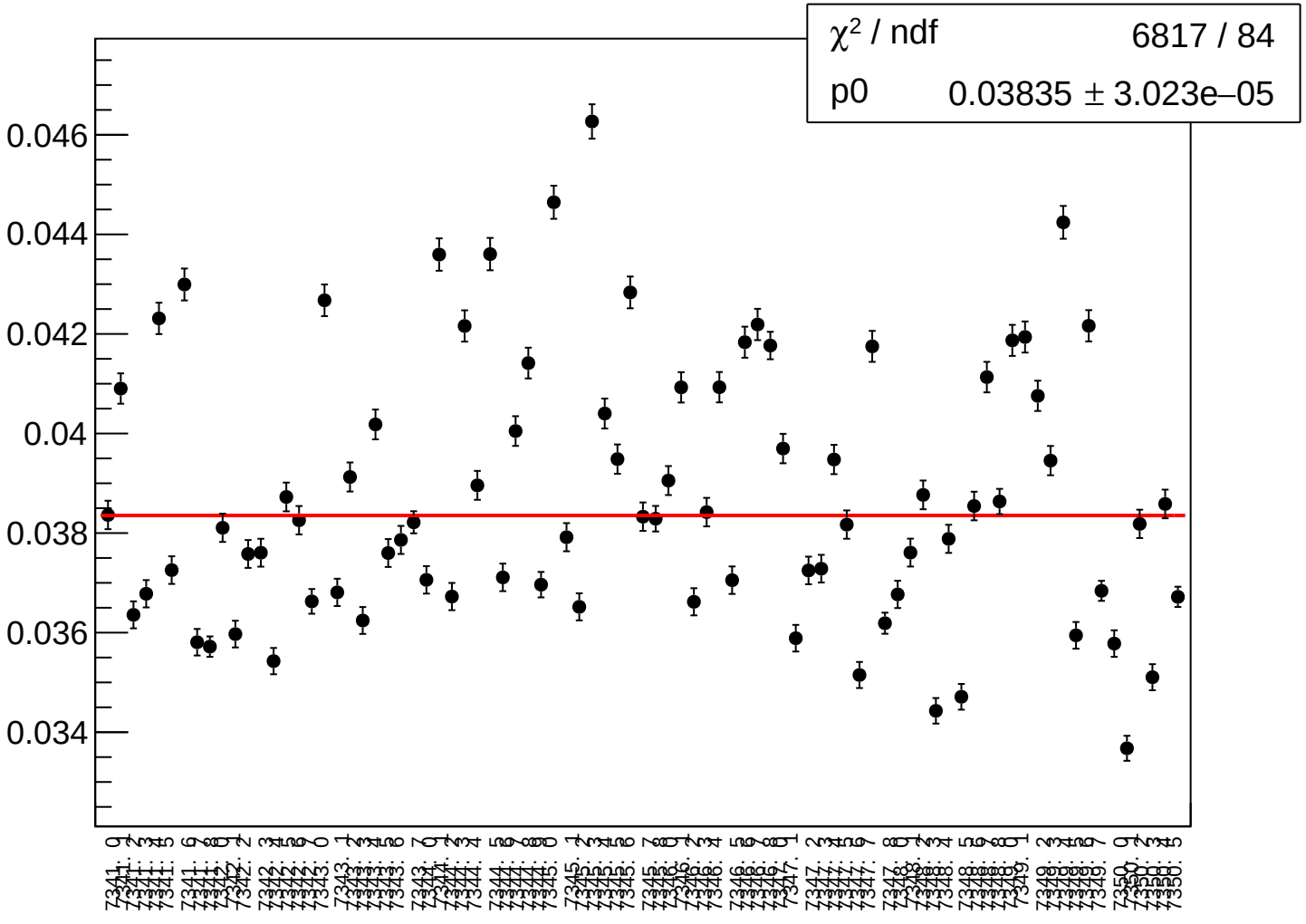

pull1D
Entries 85
Mean 0.01478
Std Dev 0.9606

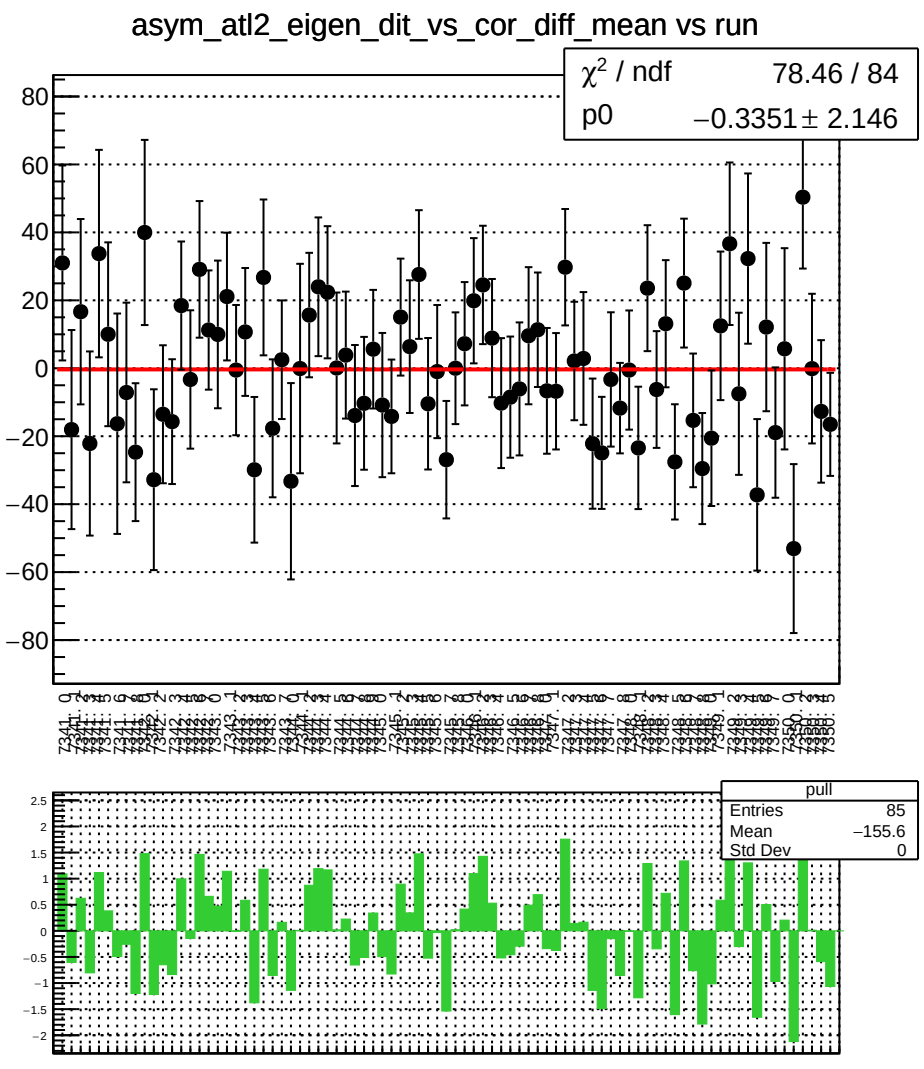

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.91e+04 / 84
p0 1906 ± 1.518
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

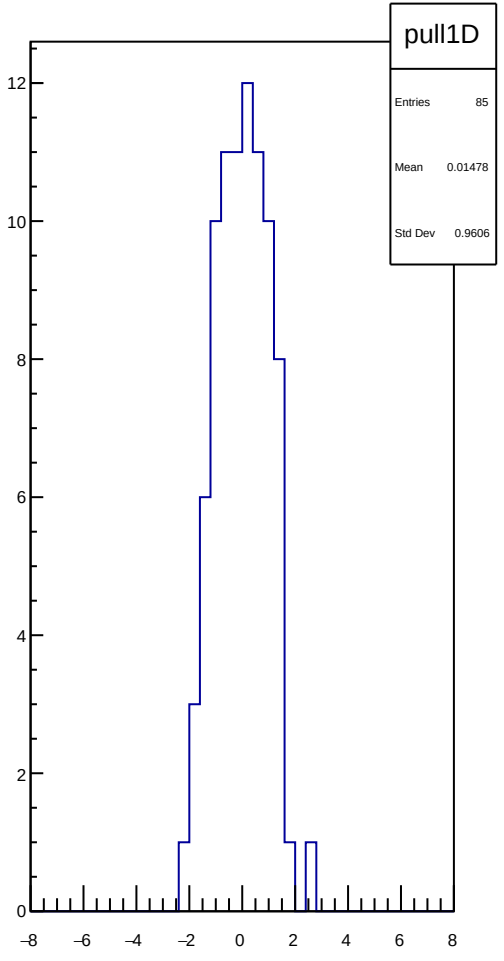

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.55 / 84
p0 −2.274e−05 ± 4.275e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean −247.8
Std Dev 0

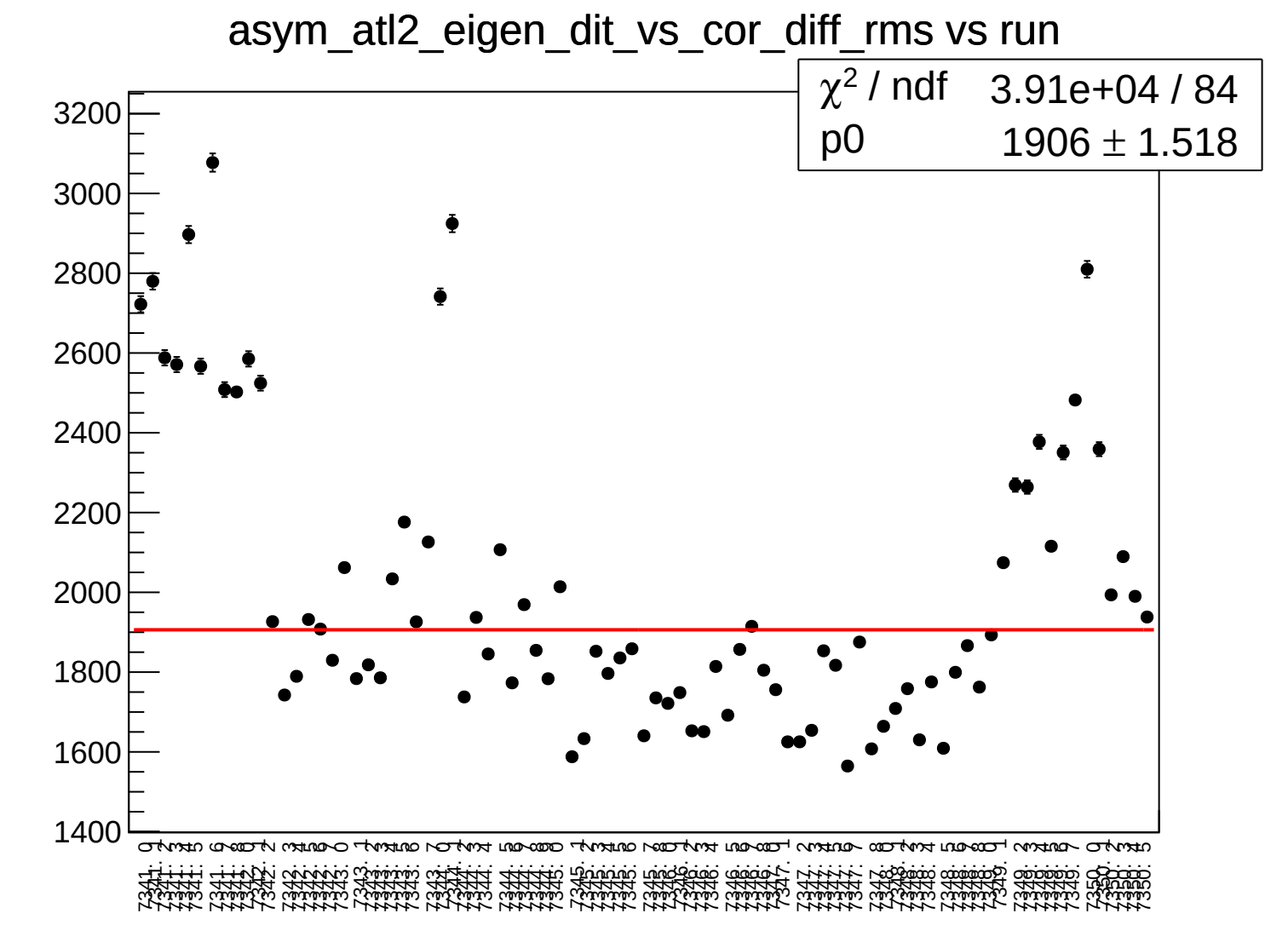

pull1D
Entries 85
Mean 0.01018
Std Dev 0.9301

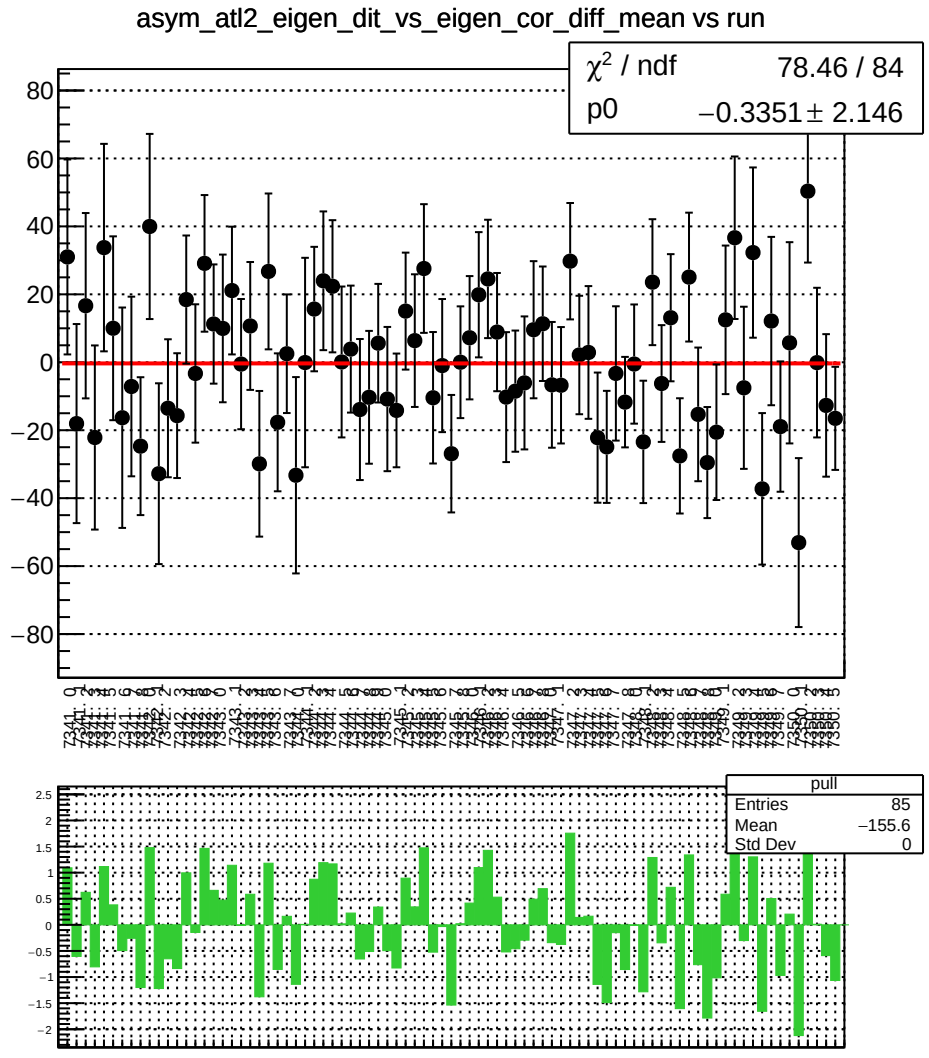
asym_atl2_eigen_dit_vs_dit_diff_rms vs run

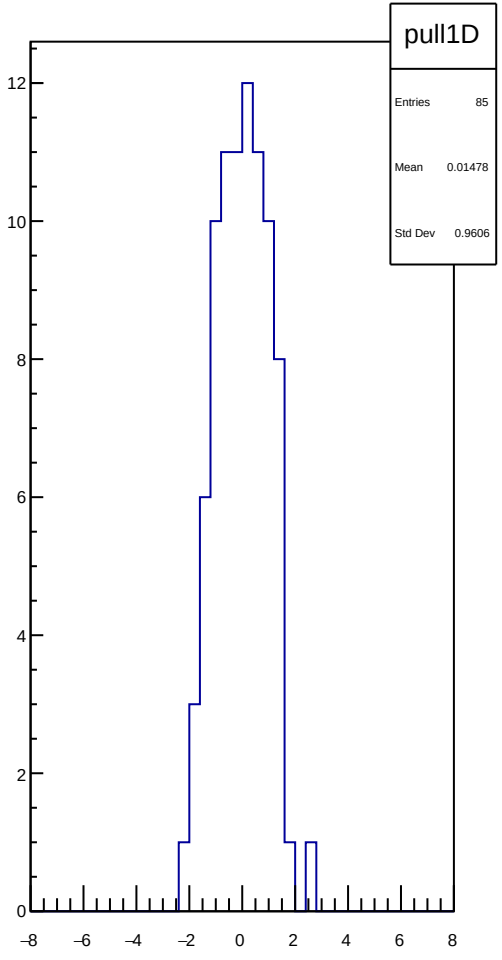


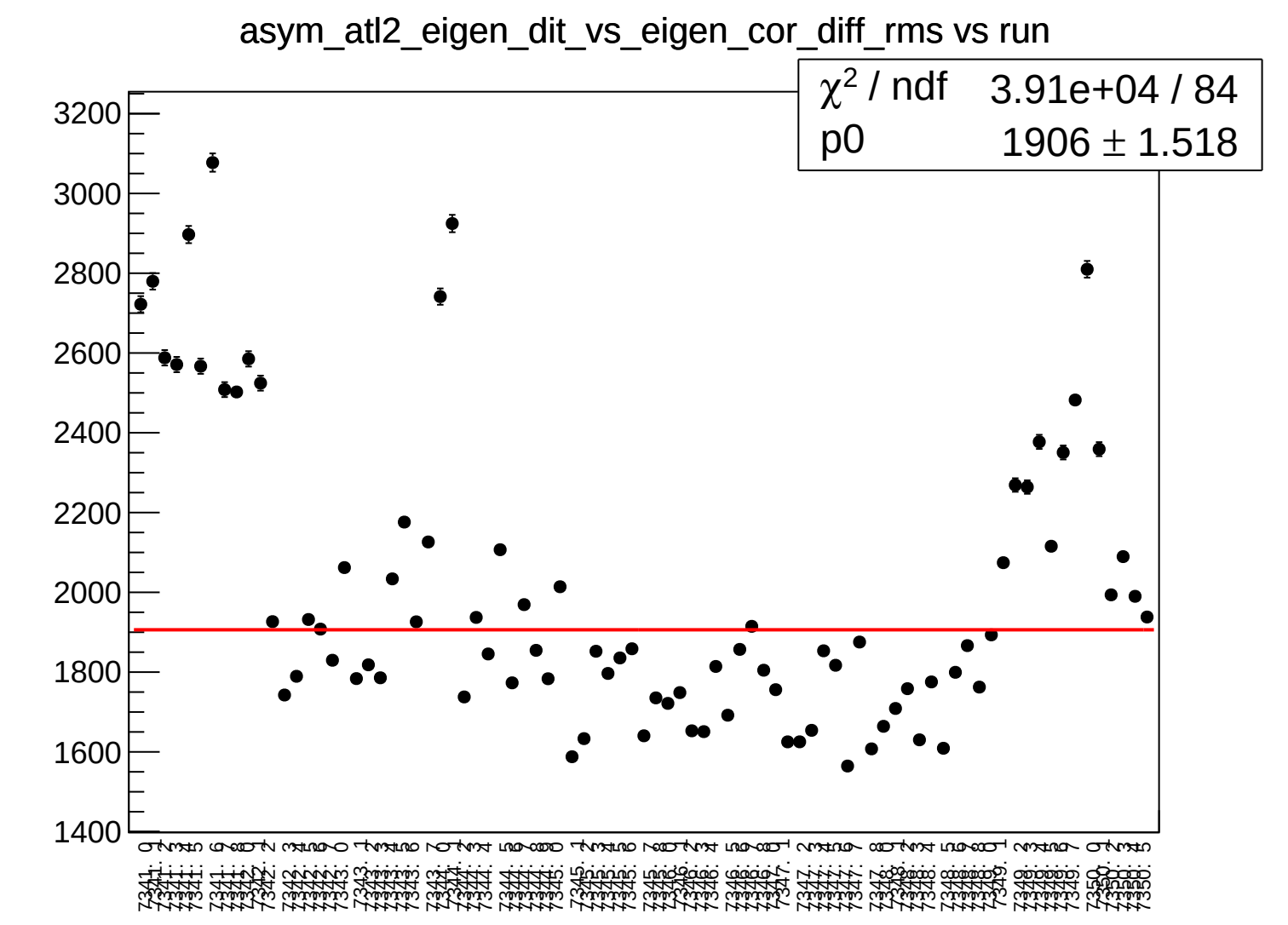

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.46 / 84
p0 −0.3351 ± 2.146
pull
Entries 85
Mean −155.6
Std Dev 0

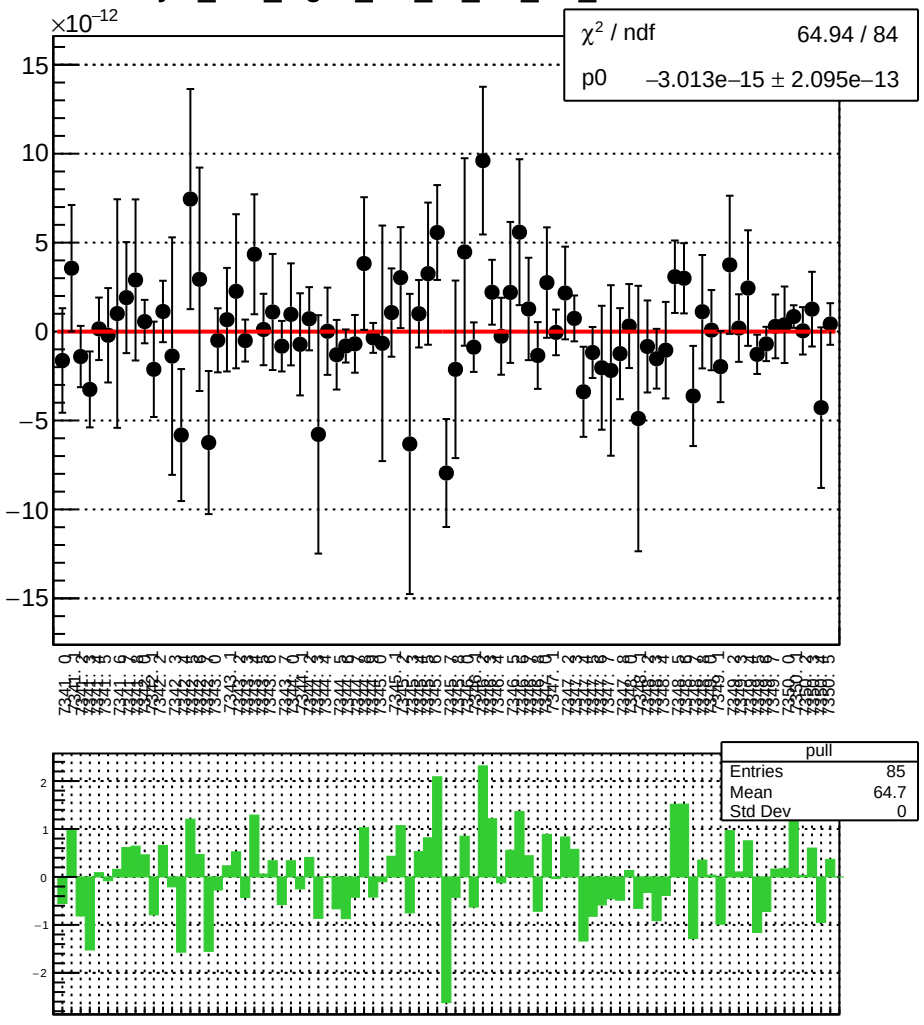

pull1D
Entries 85
Mean 0.01478
Std Dev 0.9606

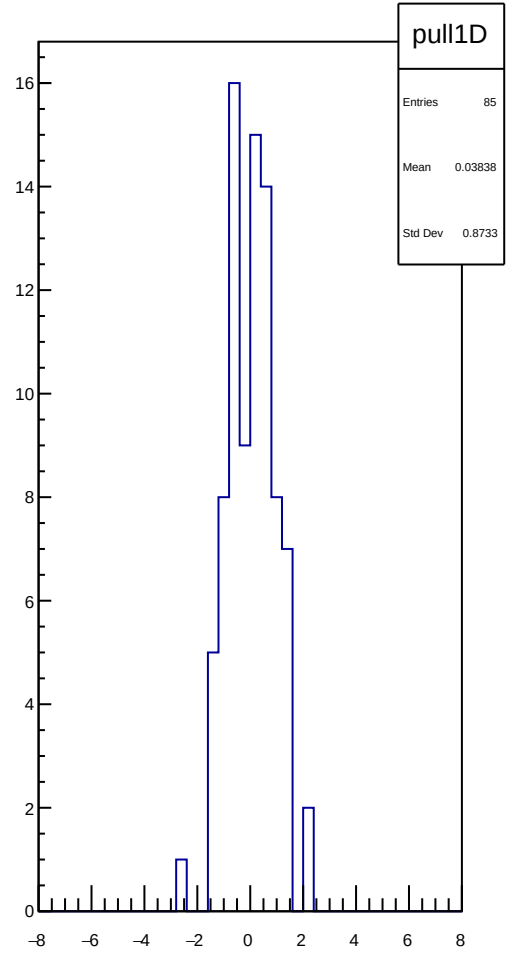

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.91e+04 / 84
p0 1906 ± 1.518
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

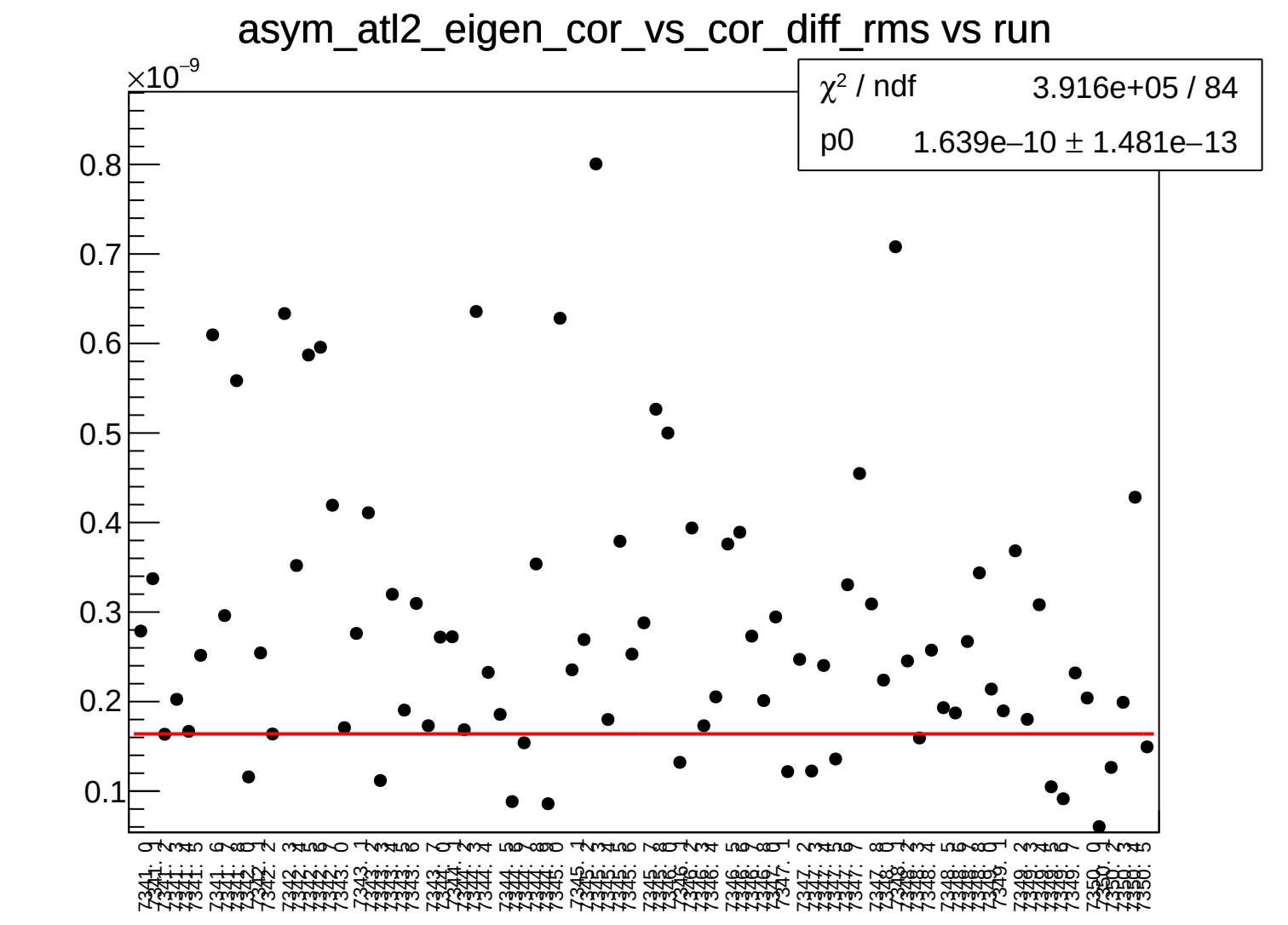

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.46 / 84
p0 −0.3351 ± 2.146
pull
Entries 85
Mean −155.6
Std Dev 0

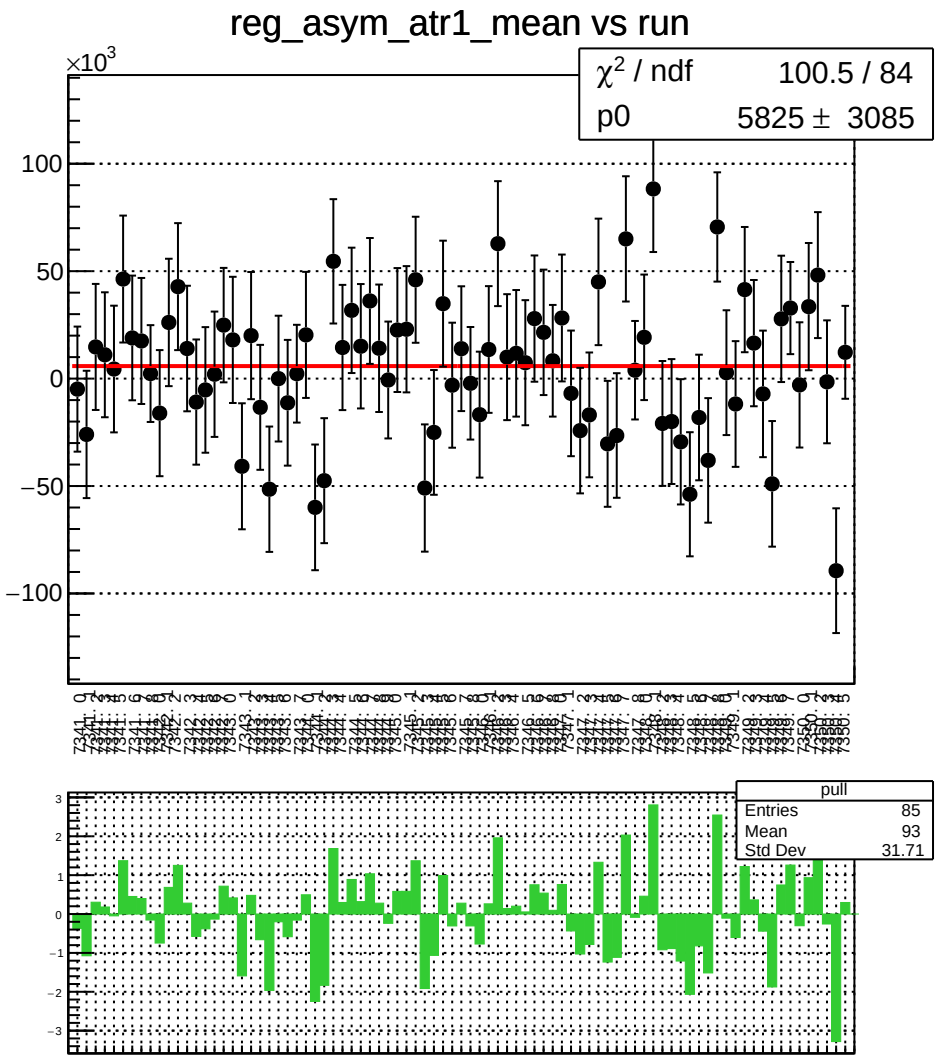

pull1D
Entries 85
Mean 0.01478
Std Dev 0.9606

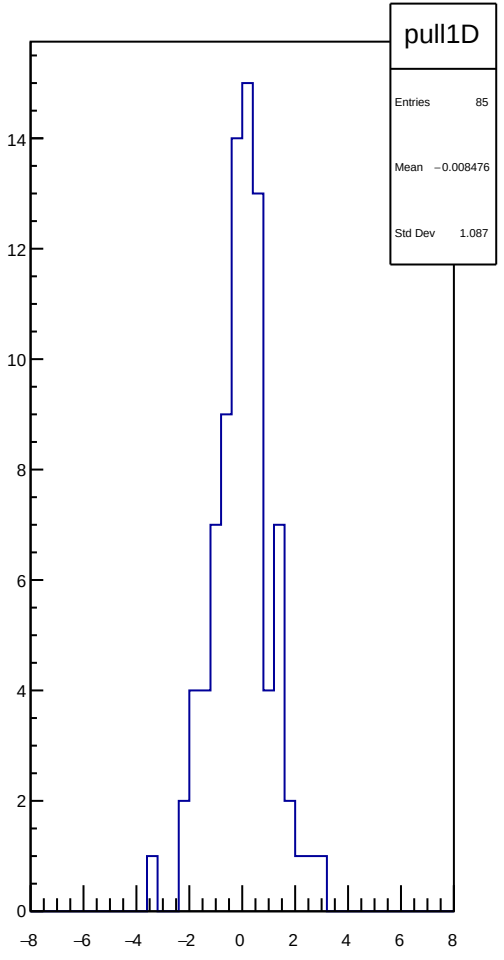

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.91e+04 / 84
p0 1906 ± 1.518
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

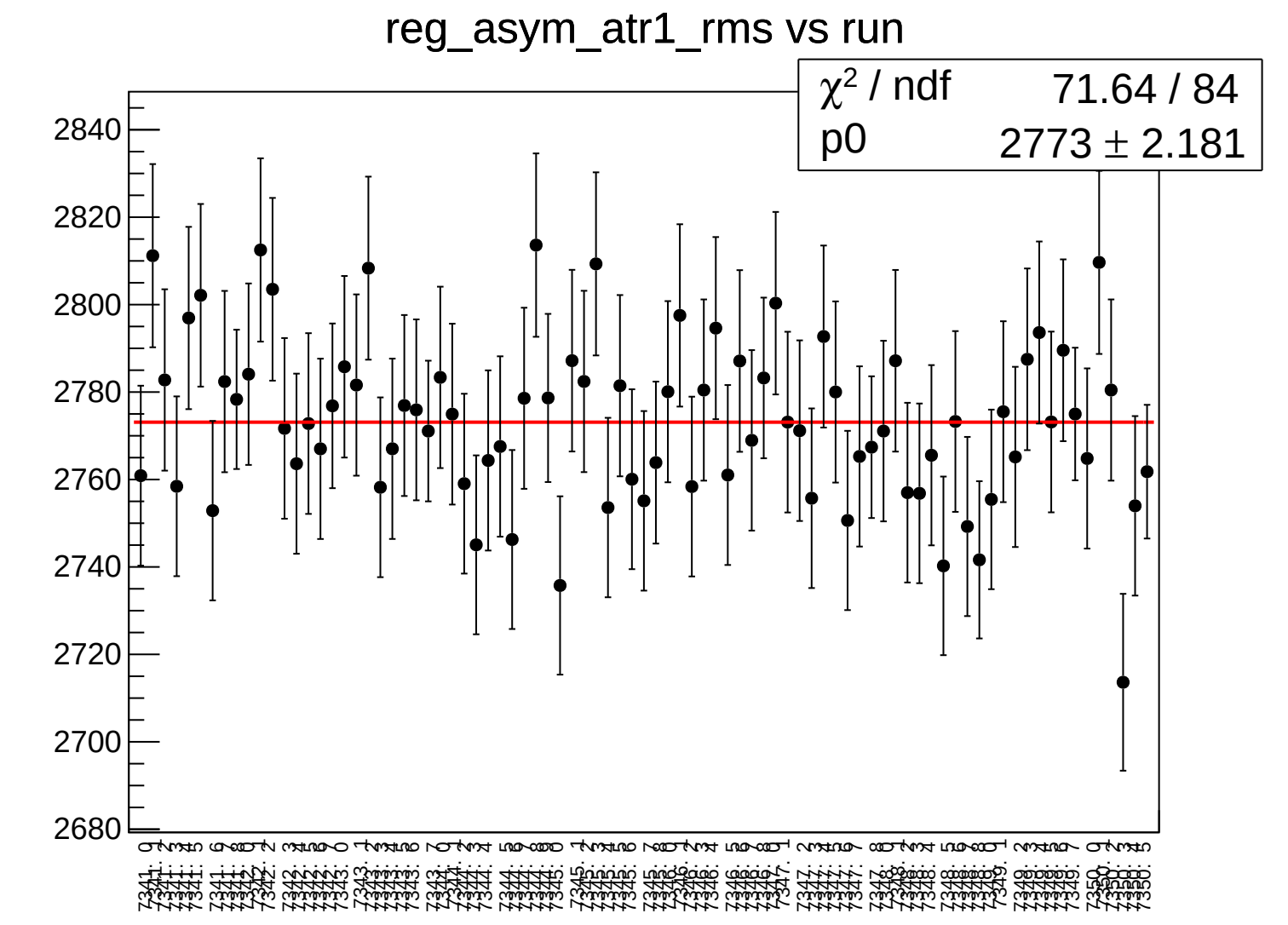

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.94 / 84
p0 −3.013e−15 ± 2.095e−13
pull
Entries 85
Mean 64.7
Std Dev 0

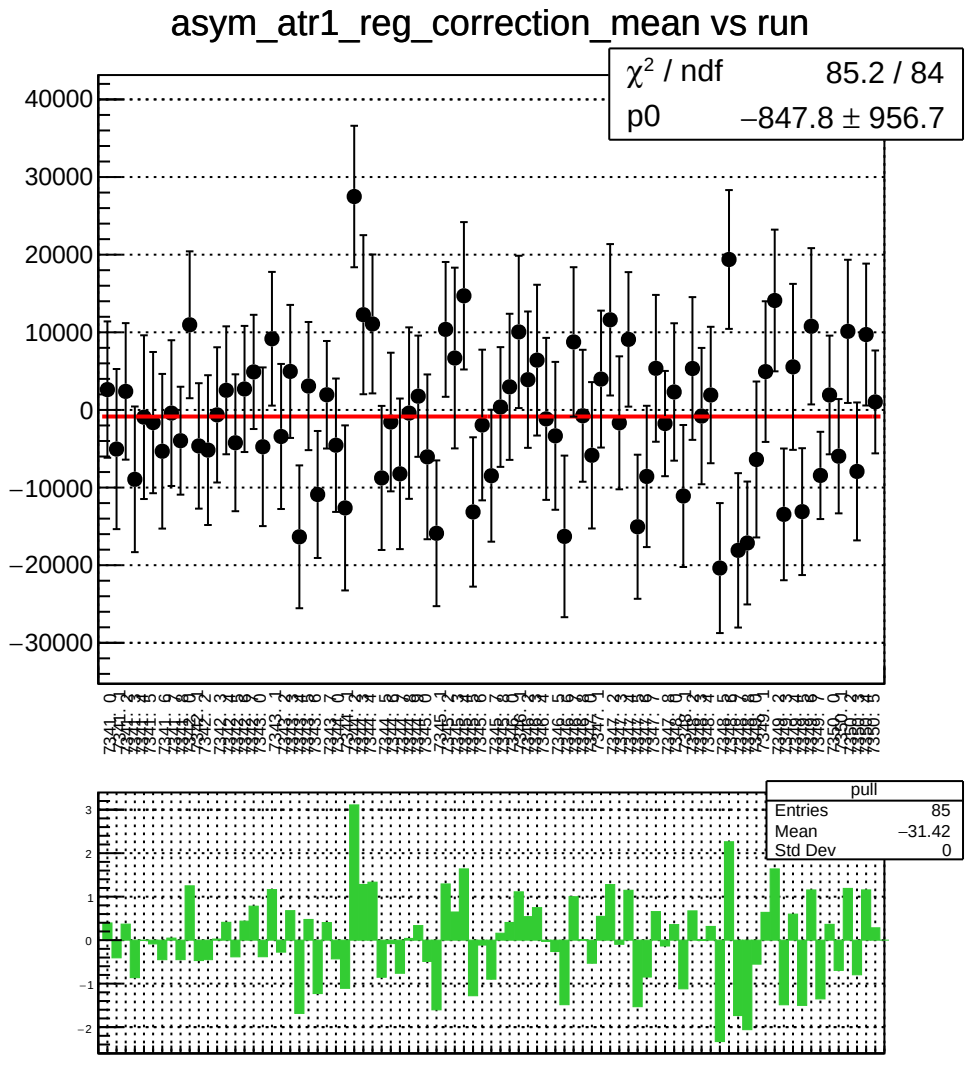

pull1D
Entries 85
Mean 0.03838
Std Dev 0.8733

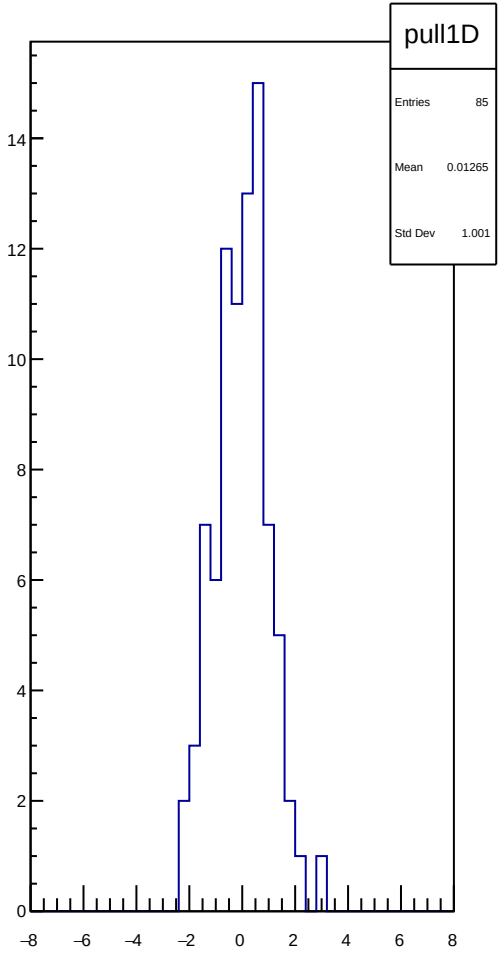

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.916e+05 / 84
p0 1.639e−10 ± 1.481e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

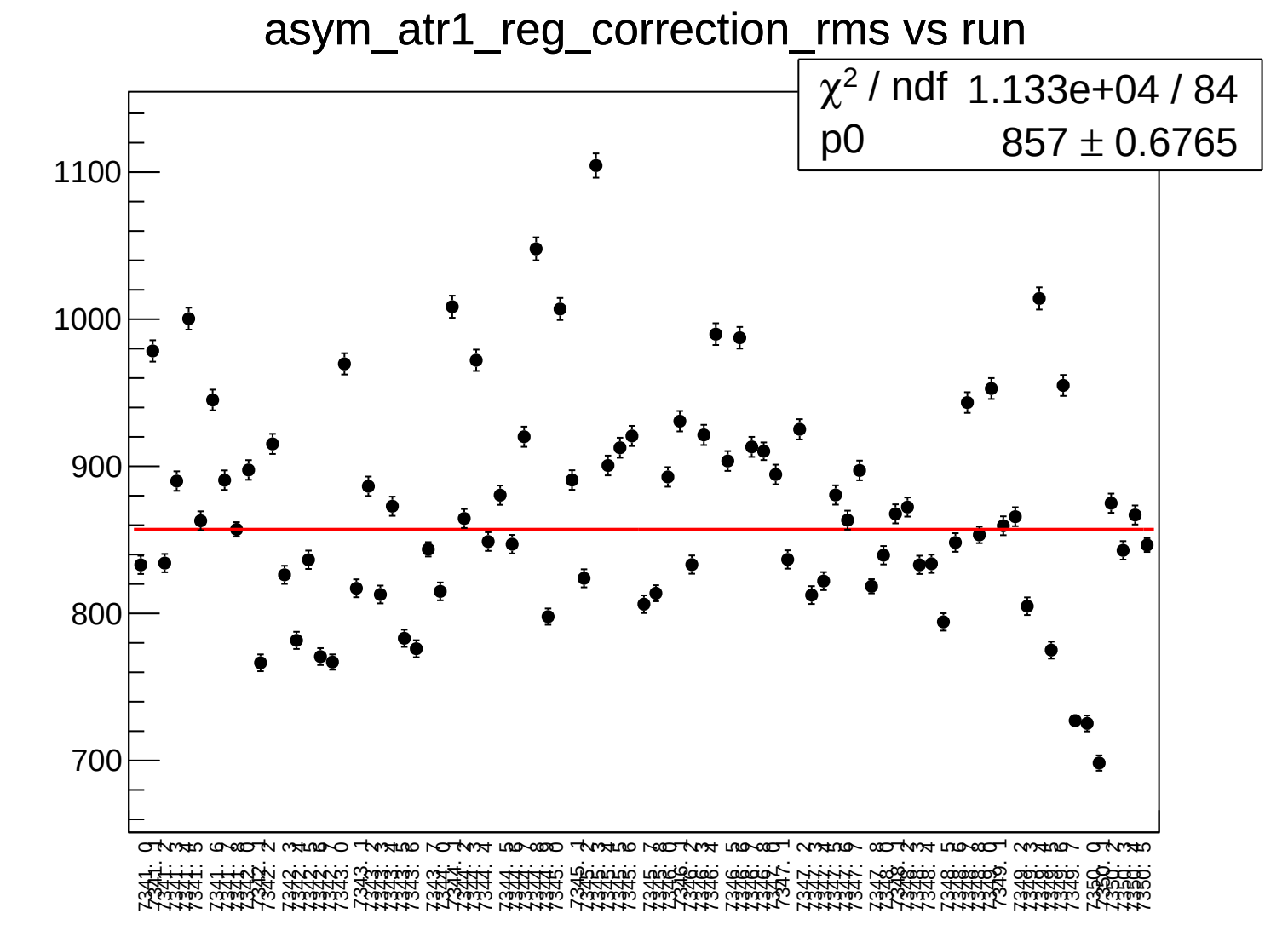

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 100.5 / 84
p0 5825 ± 3085
100
50
0
−50
−100
pull
Entries 85
Mean 93
Std Dev 31.71
3
2
1
0
−1
−2
−3

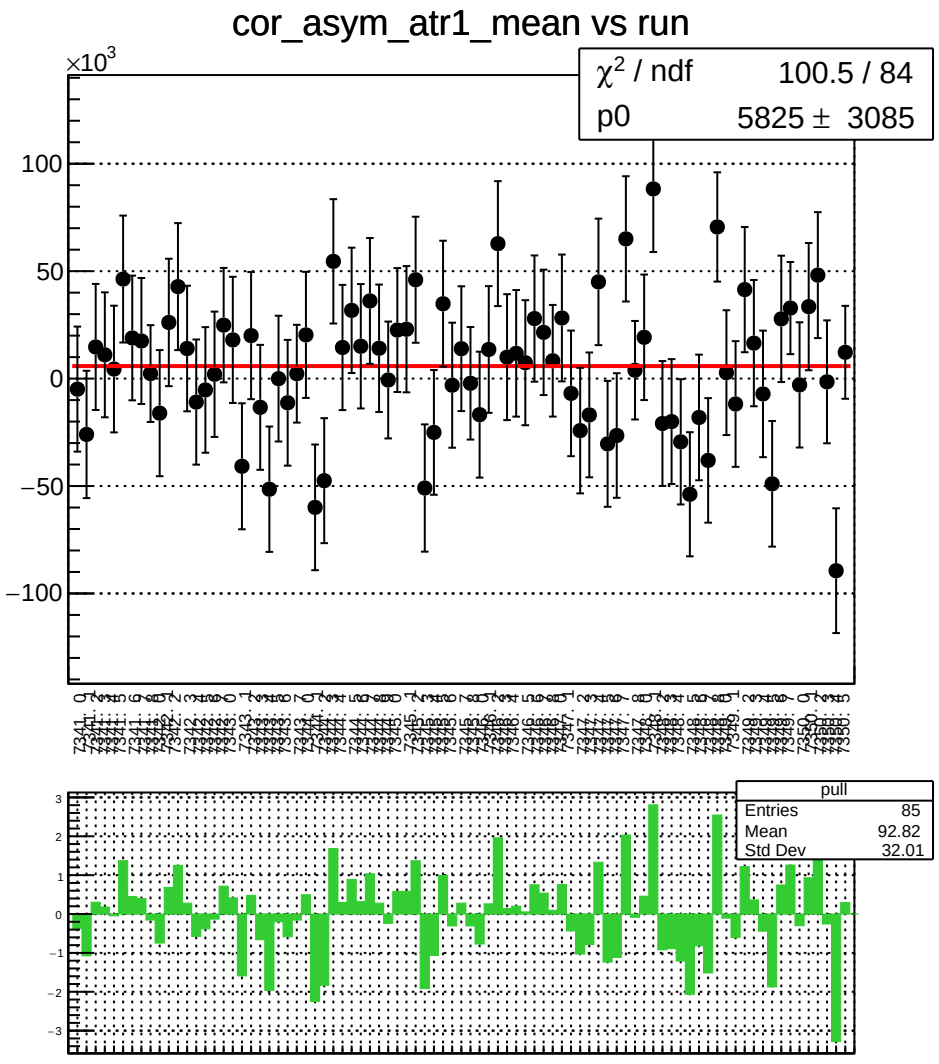

pull1D
Entries 85
Mean −0.008476
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

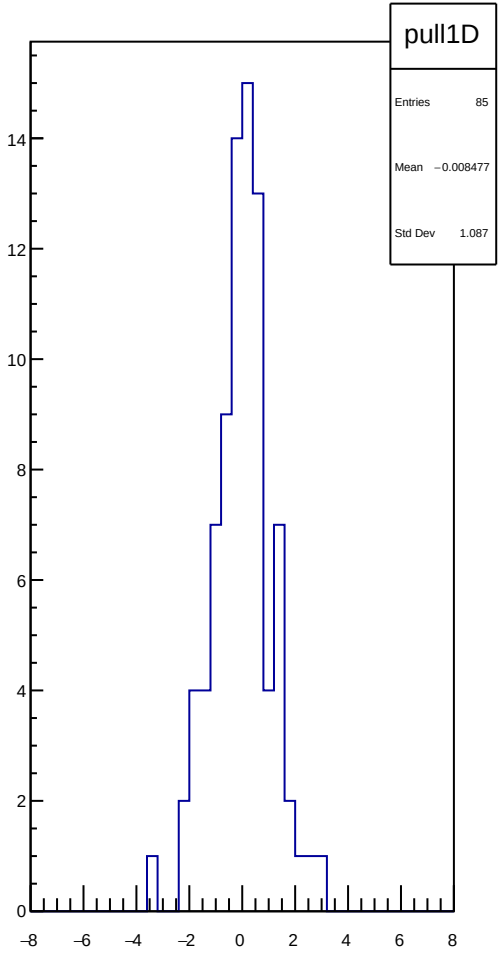

reg_asym_atr1_rms vs run
χ² / ndf 71.64 / 84
p0 2773 ± 2.181
2840
2820
2800
2780
2760
2740
2720
2700
2680

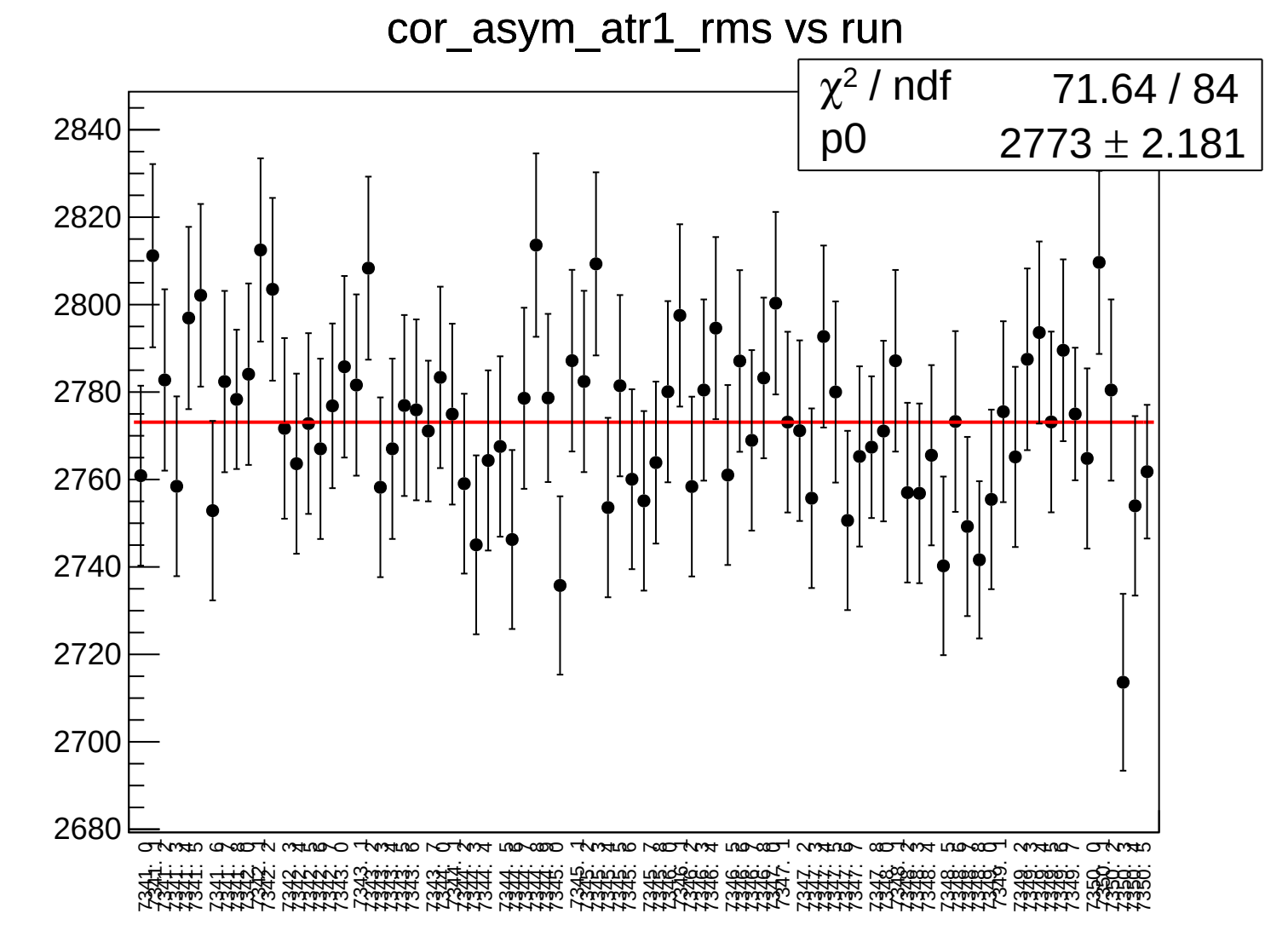

asym_atr1_reg_correction_mean vs run
χ² / ndf 85.2 / 84
p0 −847.8 ± 956.7
pull
Entries 85
Mean −31.42
Std Dev 0

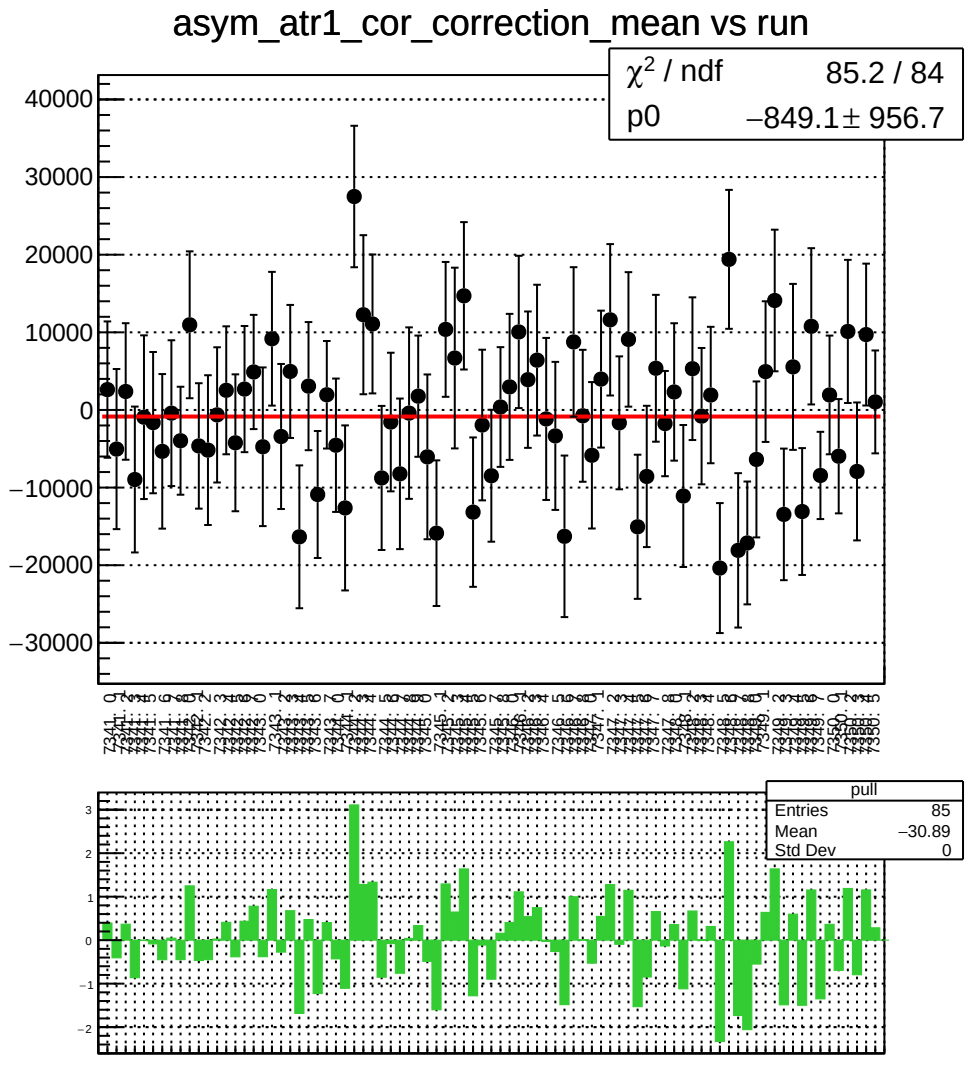

pull1D
Entries 85
Mean 0.01265
Std Dev 1.001

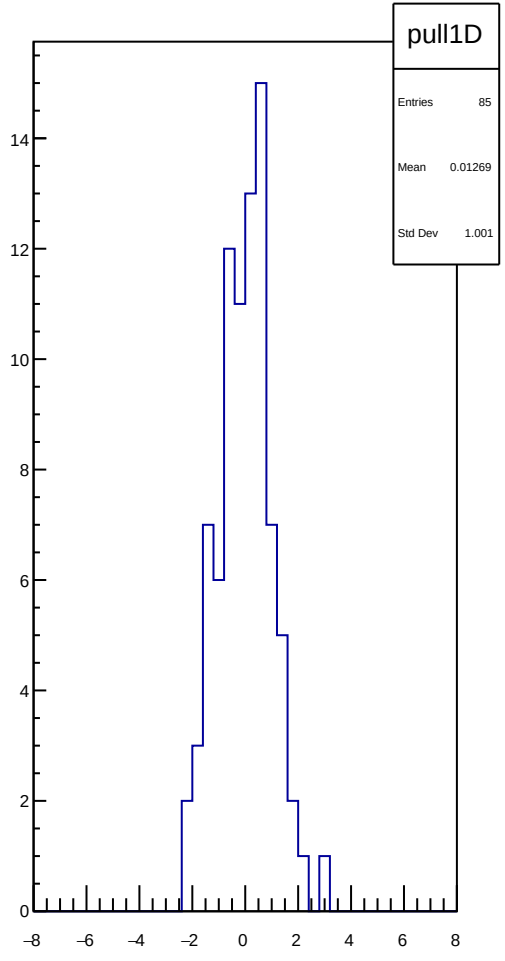

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.133e+04 / 84
p0 857 ± 0.6765
1100
1000
900
800
700

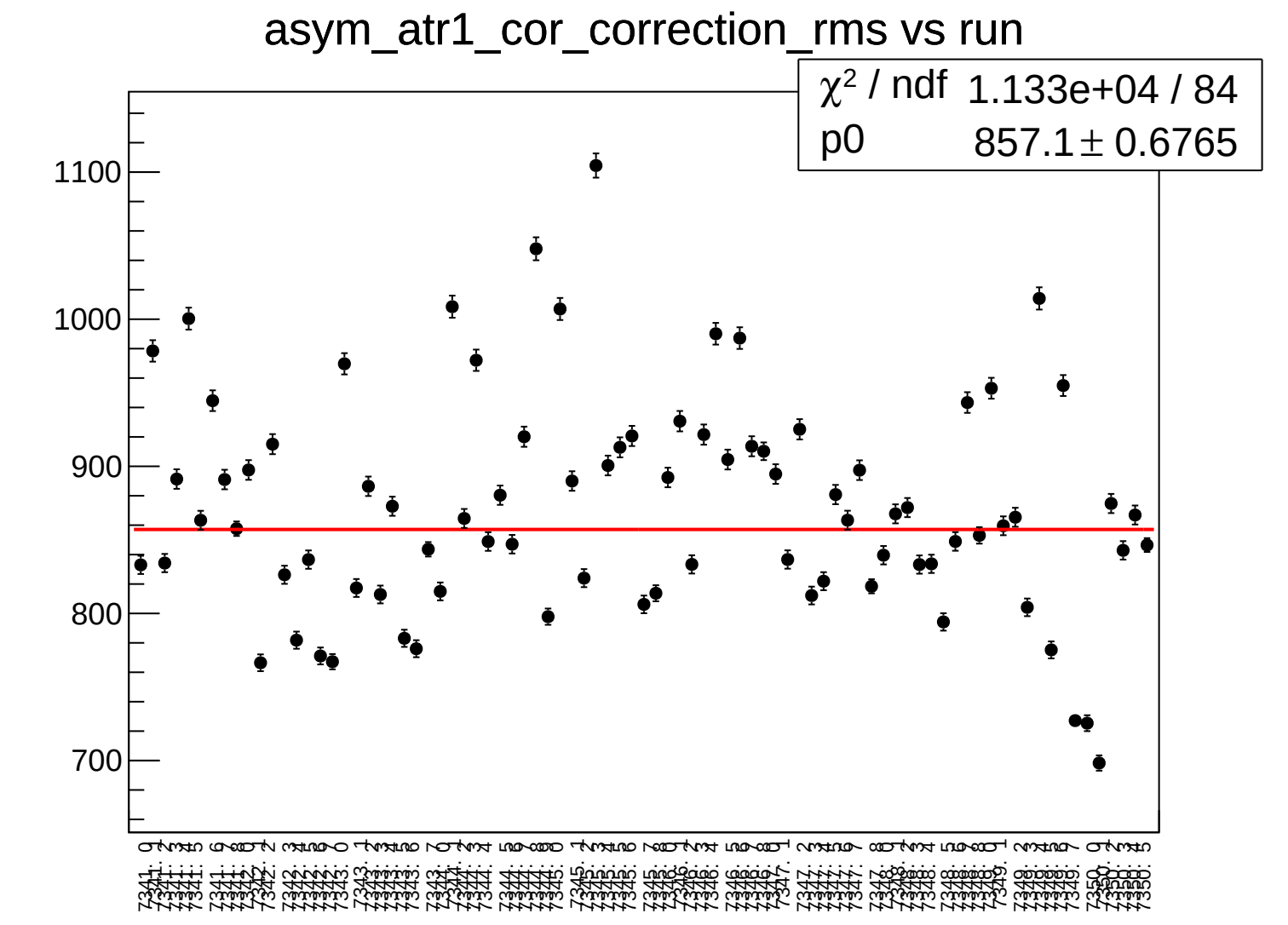

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 100.5 / 84
p0 5825 ± 3085
100
50
0
−50
−100
pull
Entries 85
Mean 92.82
Std Dev 32.01
3
2
1
0
−1
−2
−3

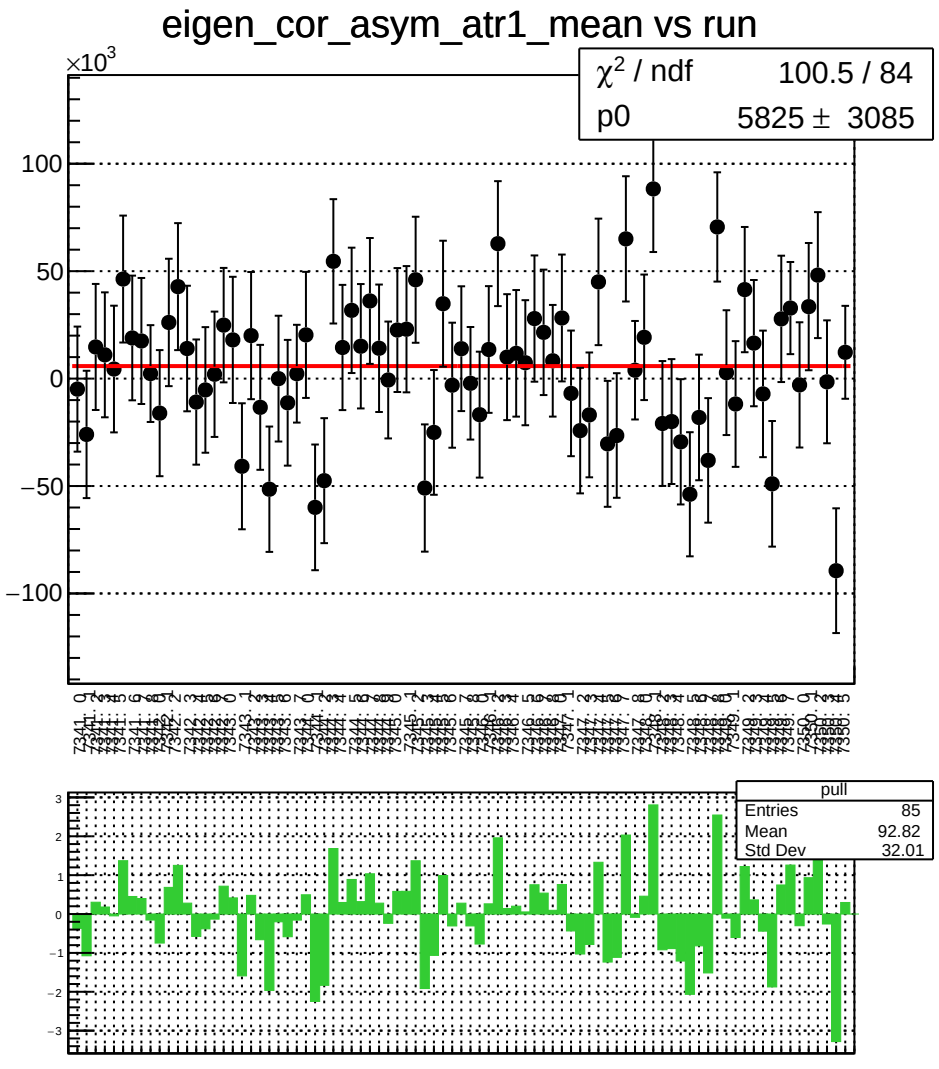

pull1D
Entries 85
Mean −0.008477
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

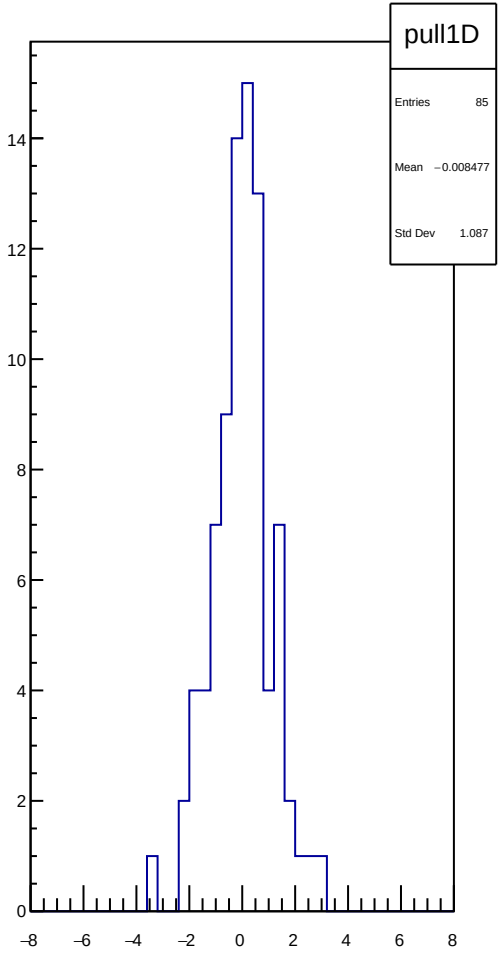

cor_asym_atr1_rms vs run
χ^2 / ndf 71.64 / 84
p0 2773 ± 2.181
2840
2820
2800
2780
2760
2740
2720
2700
2680

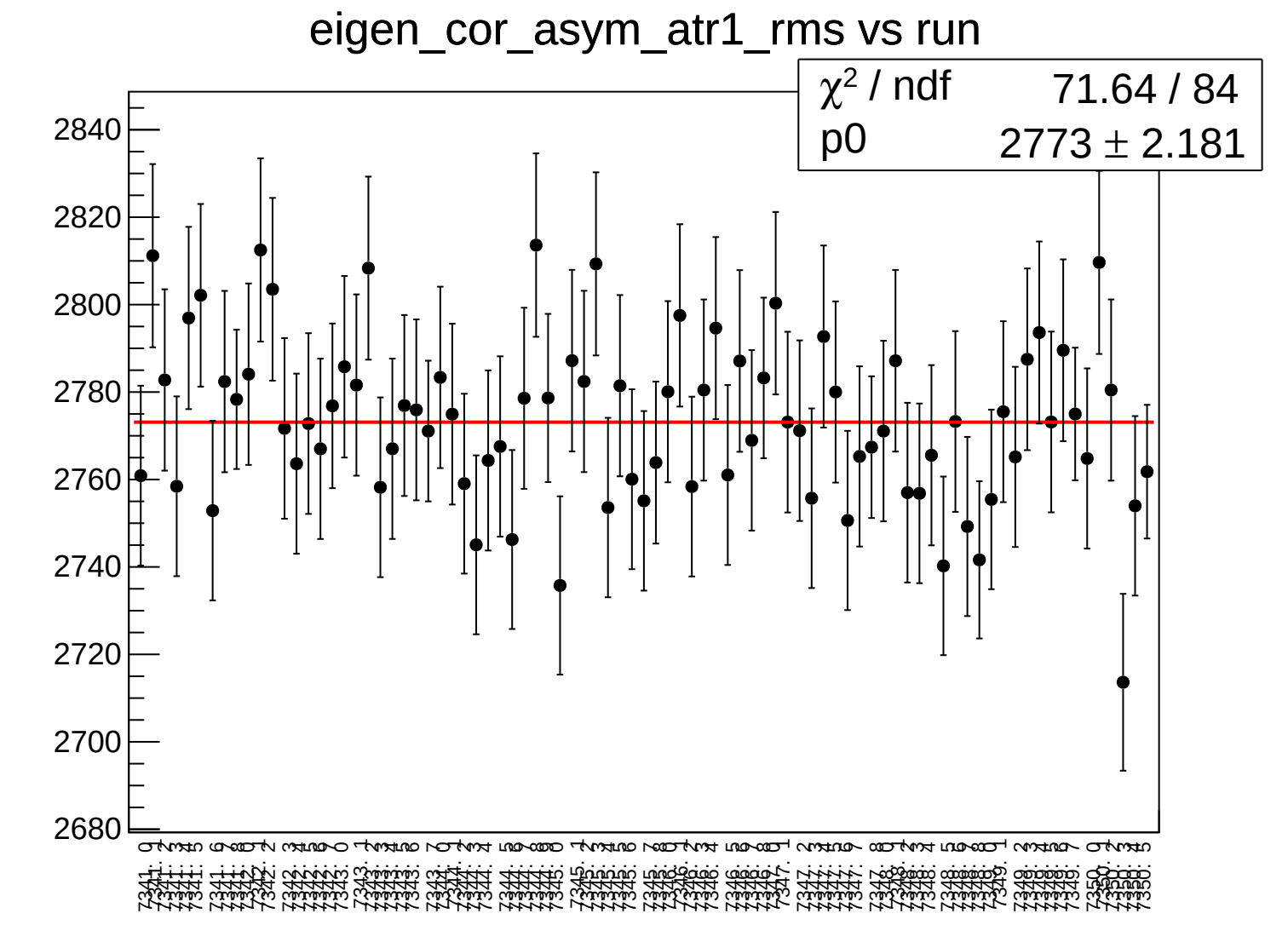

asym_atr1_cor_correction_mean vs run
χ² / ndf 85.2 / 84
p0 −849.1 ± 956.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −30.89
Std Dev 0
3
2
1
0
−1
−2

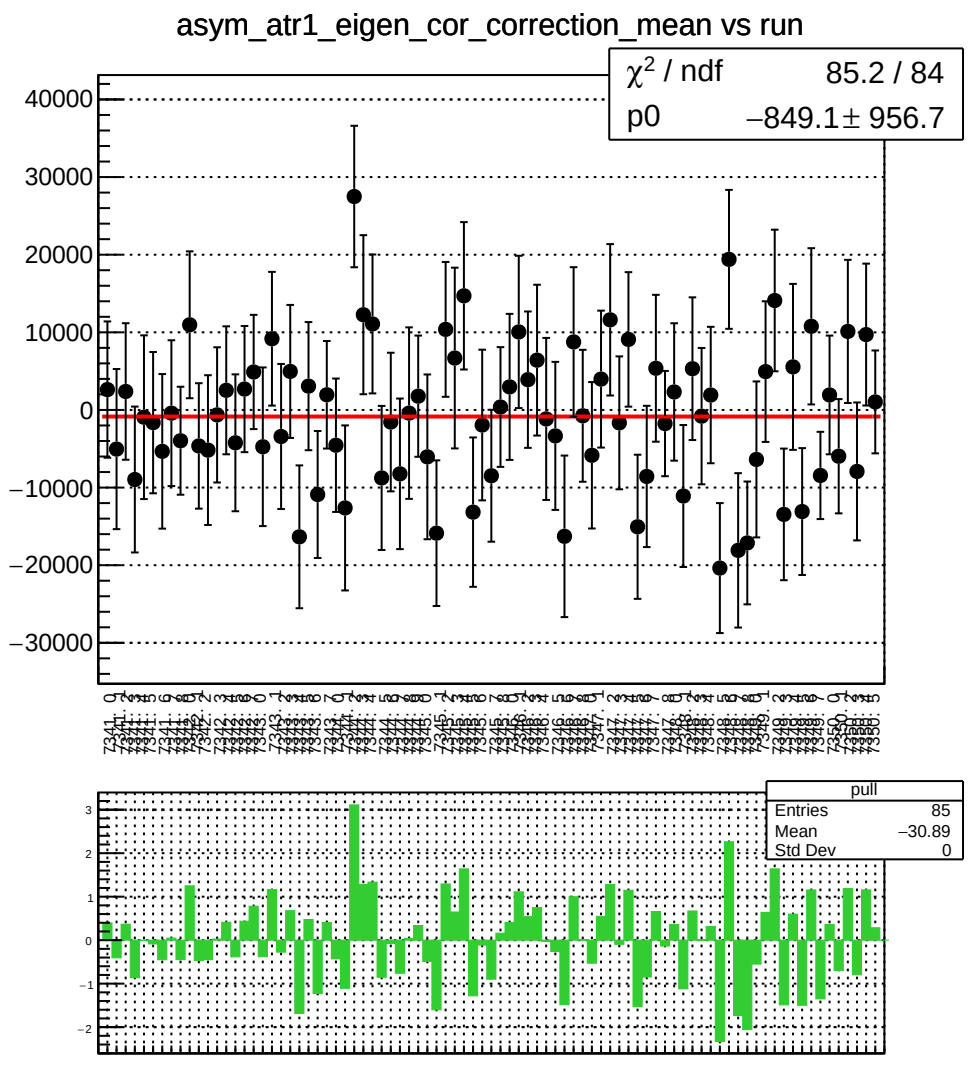

pull1D
Entries 85
Mean 0.01269
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

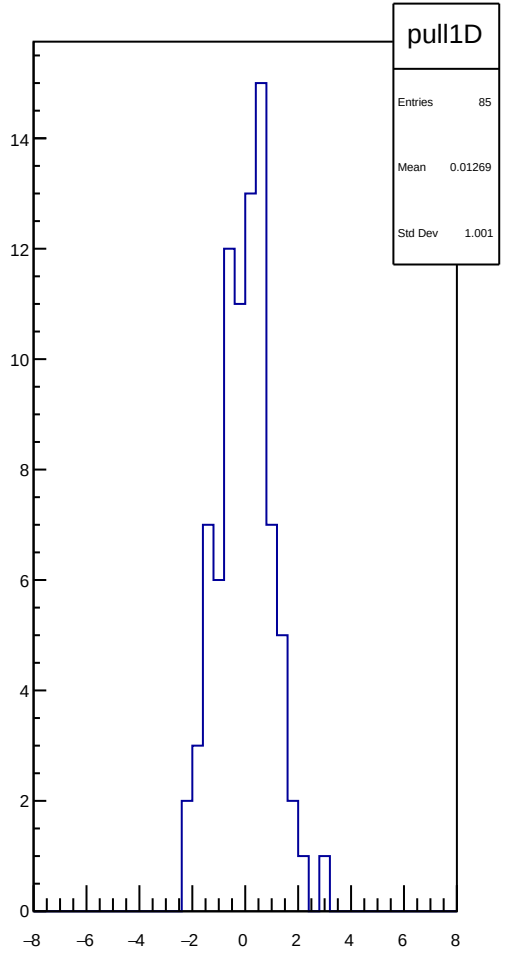

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.133e+04 / 84
p0 857.1 ± 0.6765
1100
1000
900
800
700

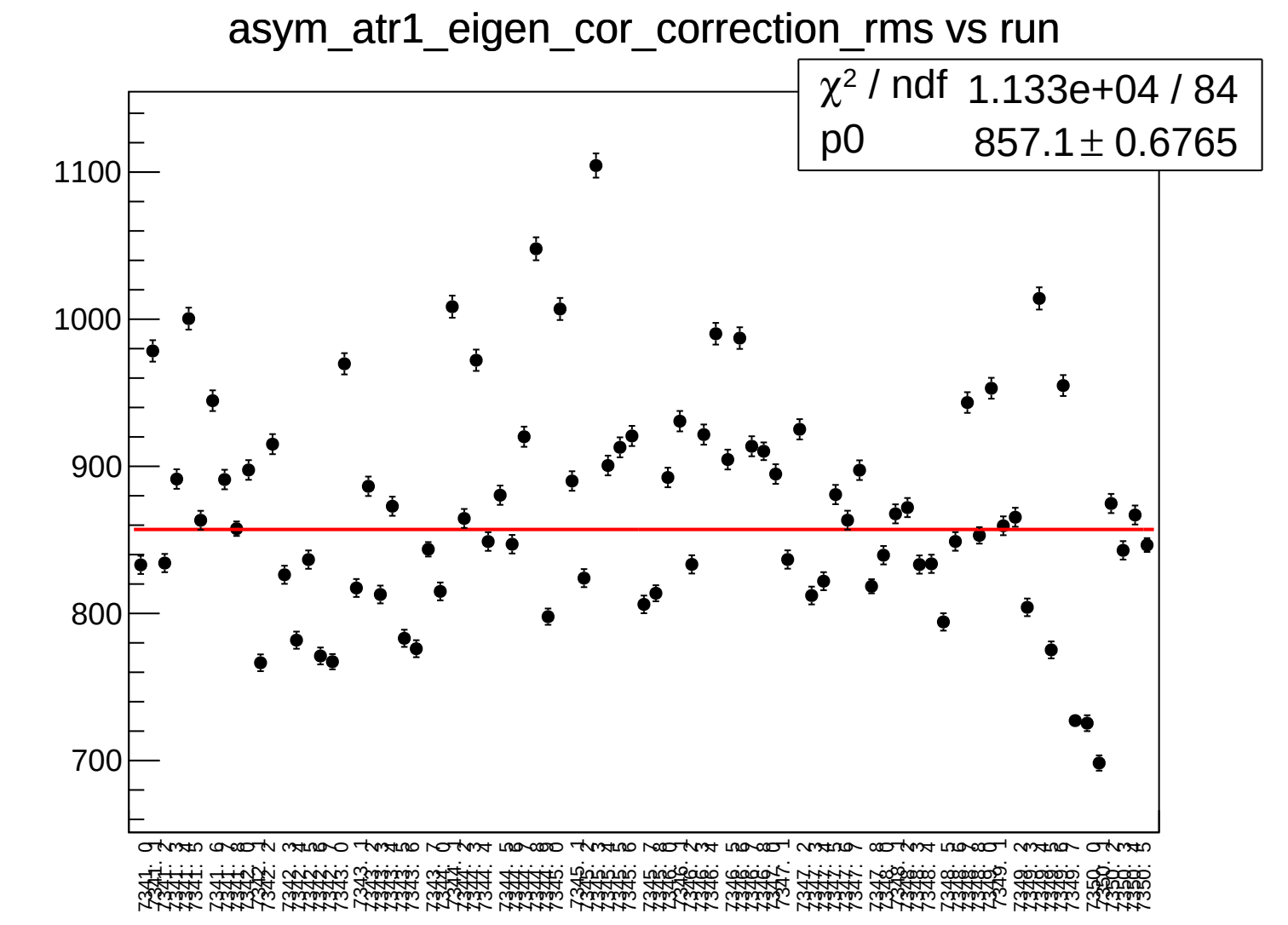

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 100.5 / 84
p0 5825 ± 3085
100
50
0
−50
−100
pull
Entries 85
Mean 92.82
Std Dev 32.01
3
2
1
0
−1
−2
−3

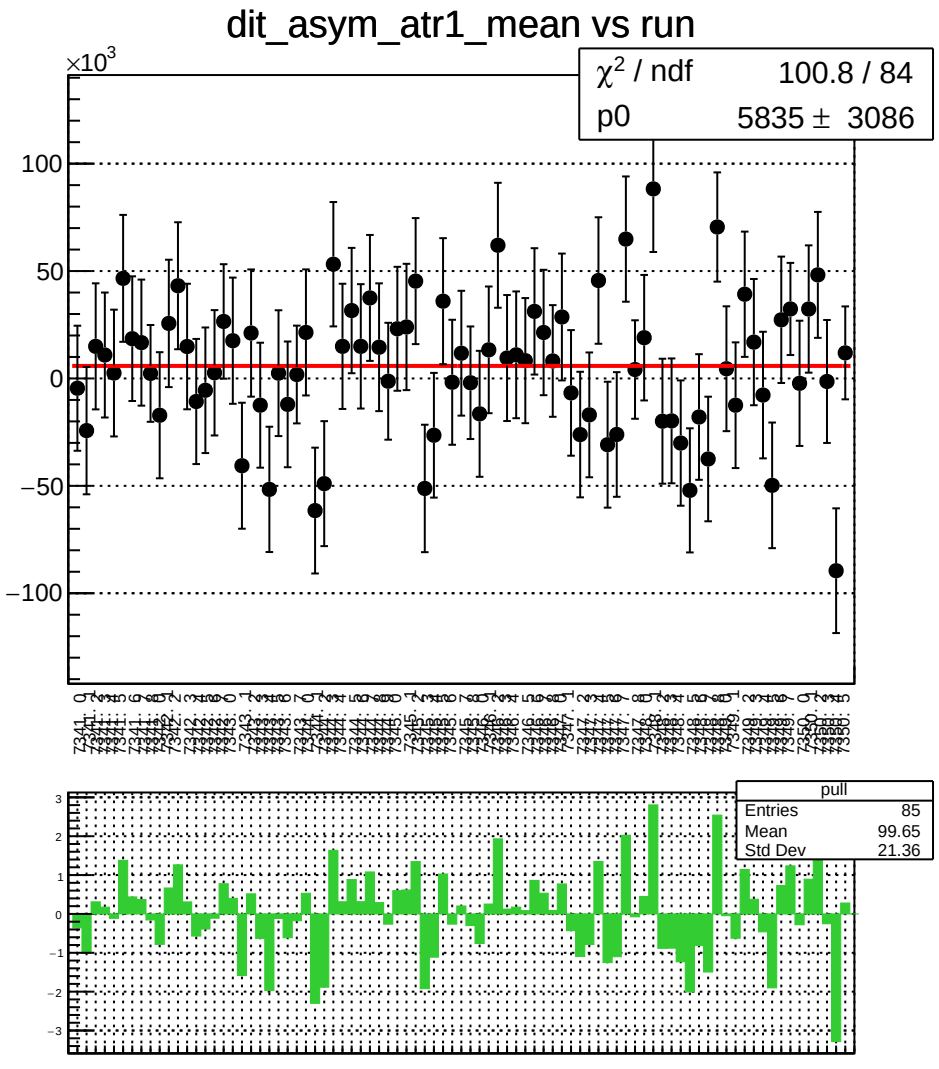

pull1D
Entries 85
Mean −0.008477
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

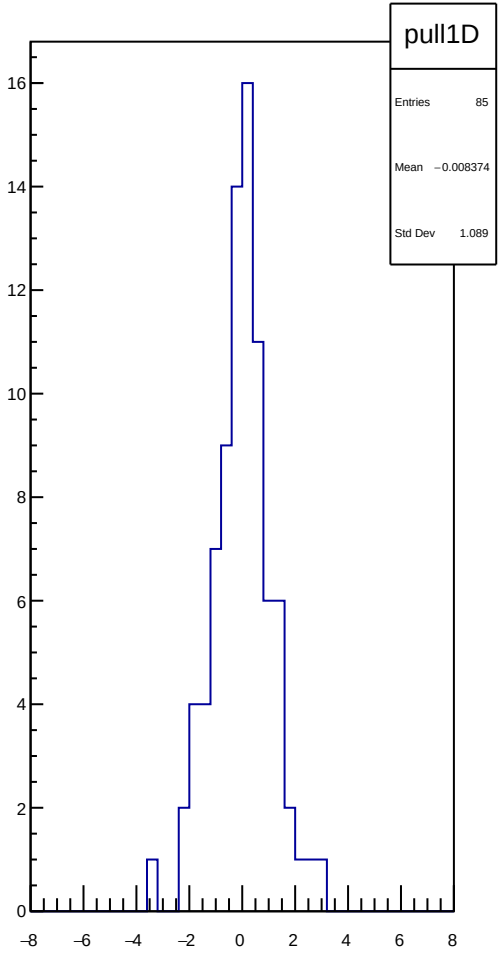

eigen_cor_asym_atr1_rms vs run
χ² / ndf 71.64 / 84
p0 2773 ± 2.181
2840
2820
2800
2780
2760
2740
2720
2700
2680

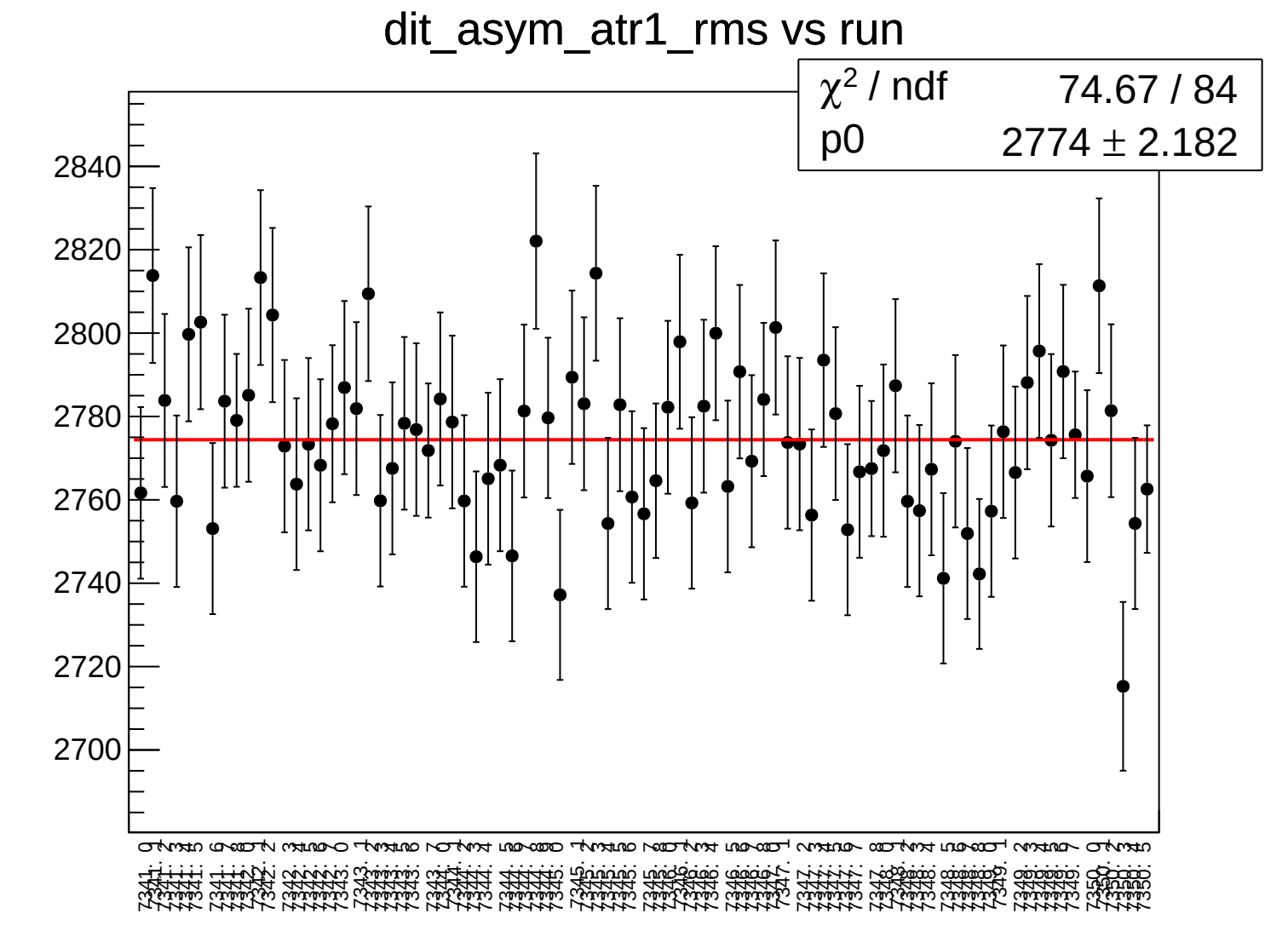

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 85.2 / 84
p0 −849.1± 956.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −30.89
Std Dev 0
3
2
1
0
−1
−2

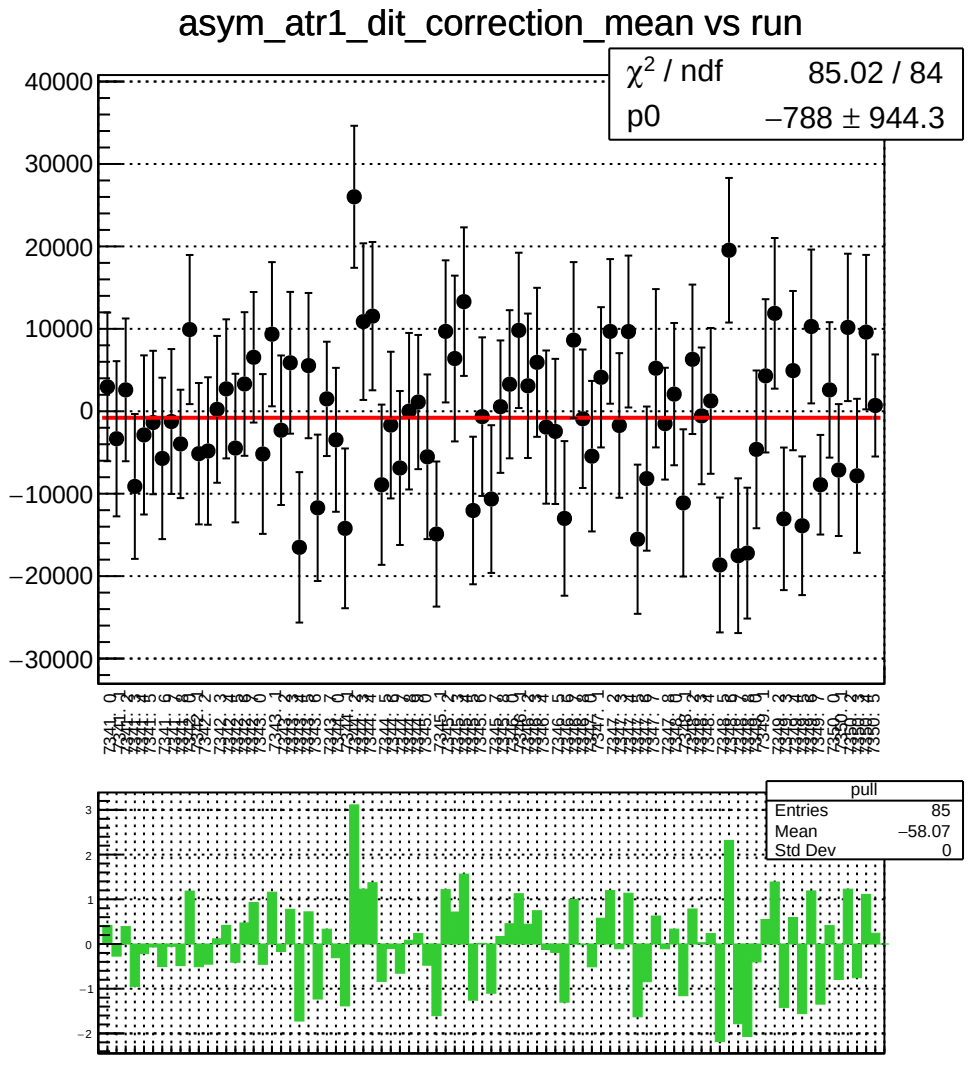

pull1D
Entries 85
Mean 0.01269
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

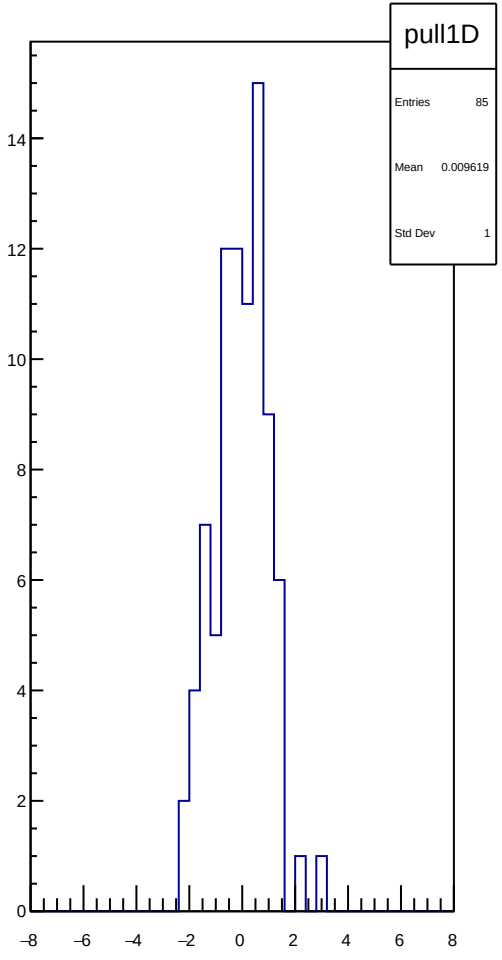

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.133e+04 / 84
p0 857.1 ± 0.6765
1100
1000
900
800
700

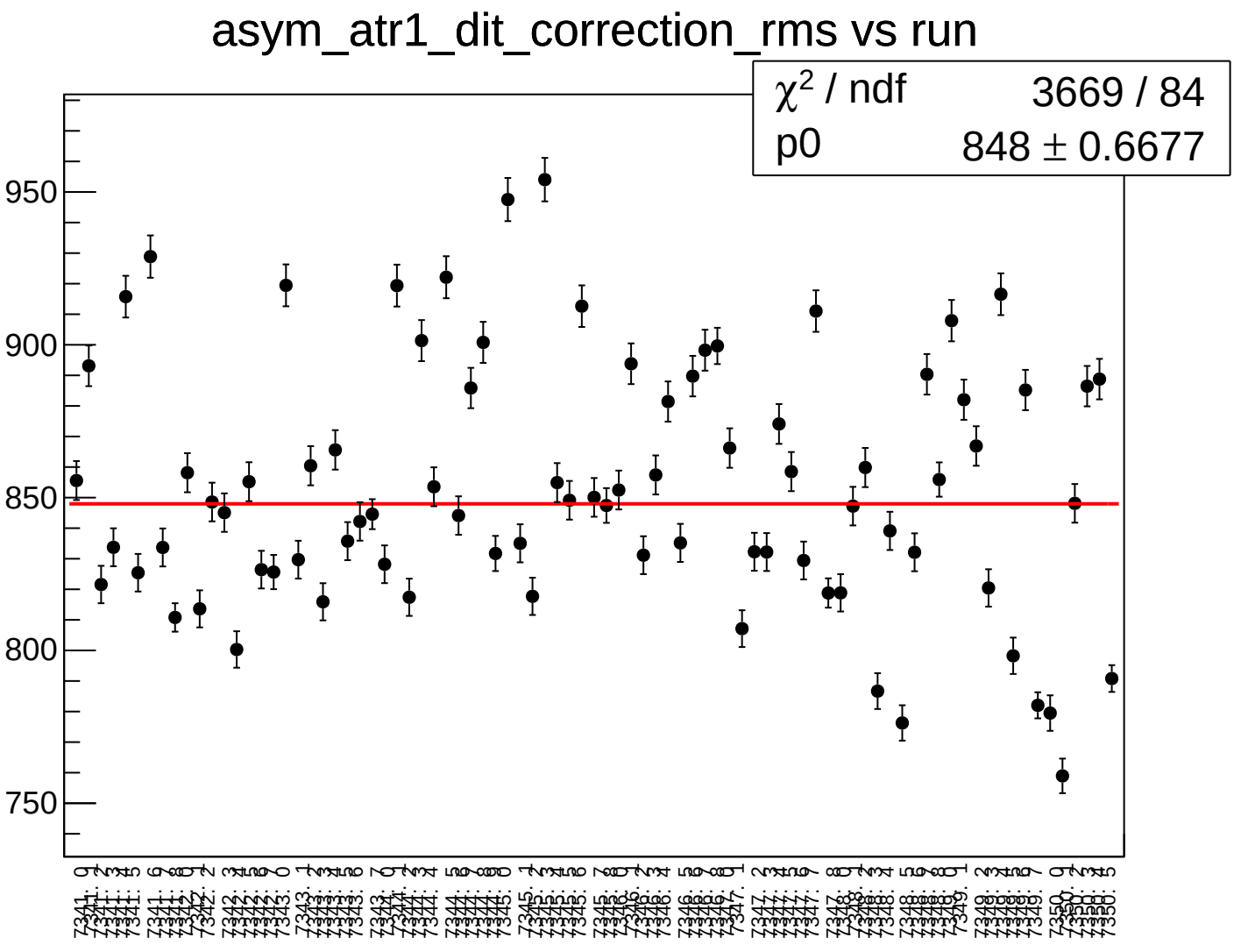

dit_asym_atr1_mean vs run
χ^2 / ndf 100.8 / 84
p0 5835 ± 3086
×10^3
pull
Entries 85
Mean 99.65
Std Dev 21.36

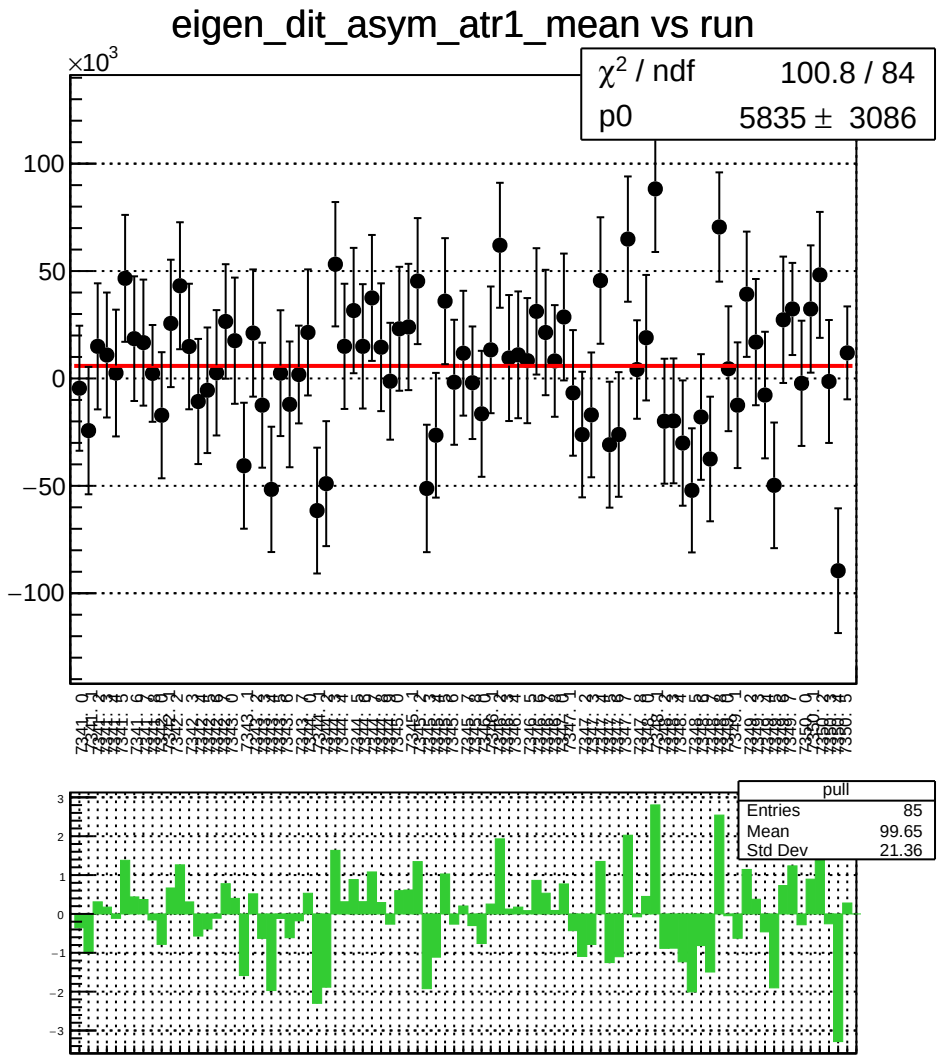

pull1D
Entries 85
Mean −0.008374
Std Dev 1.089

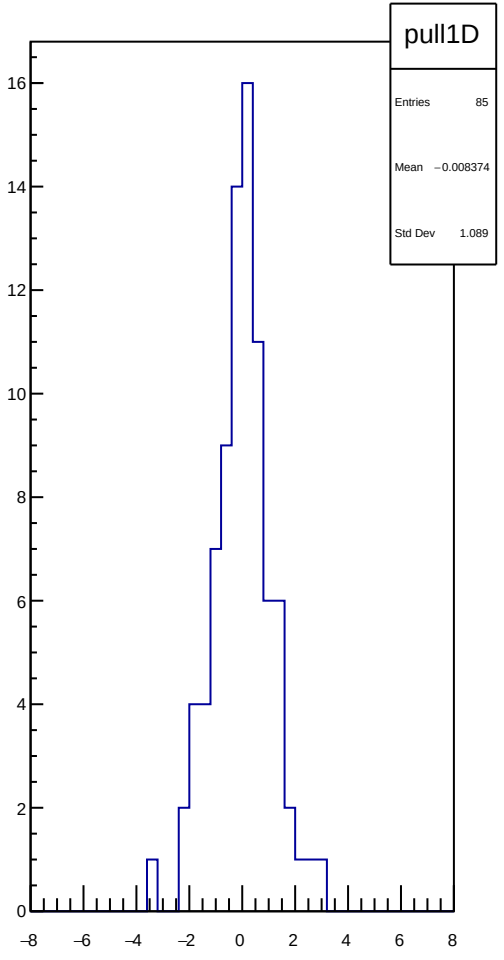

dit_asym_atr1_rms vs run
χ^2 / ndf 74.67 / 84
p0 2774 ± 2.182
2840
2820
2800
2780
2760
2740
2720
2700

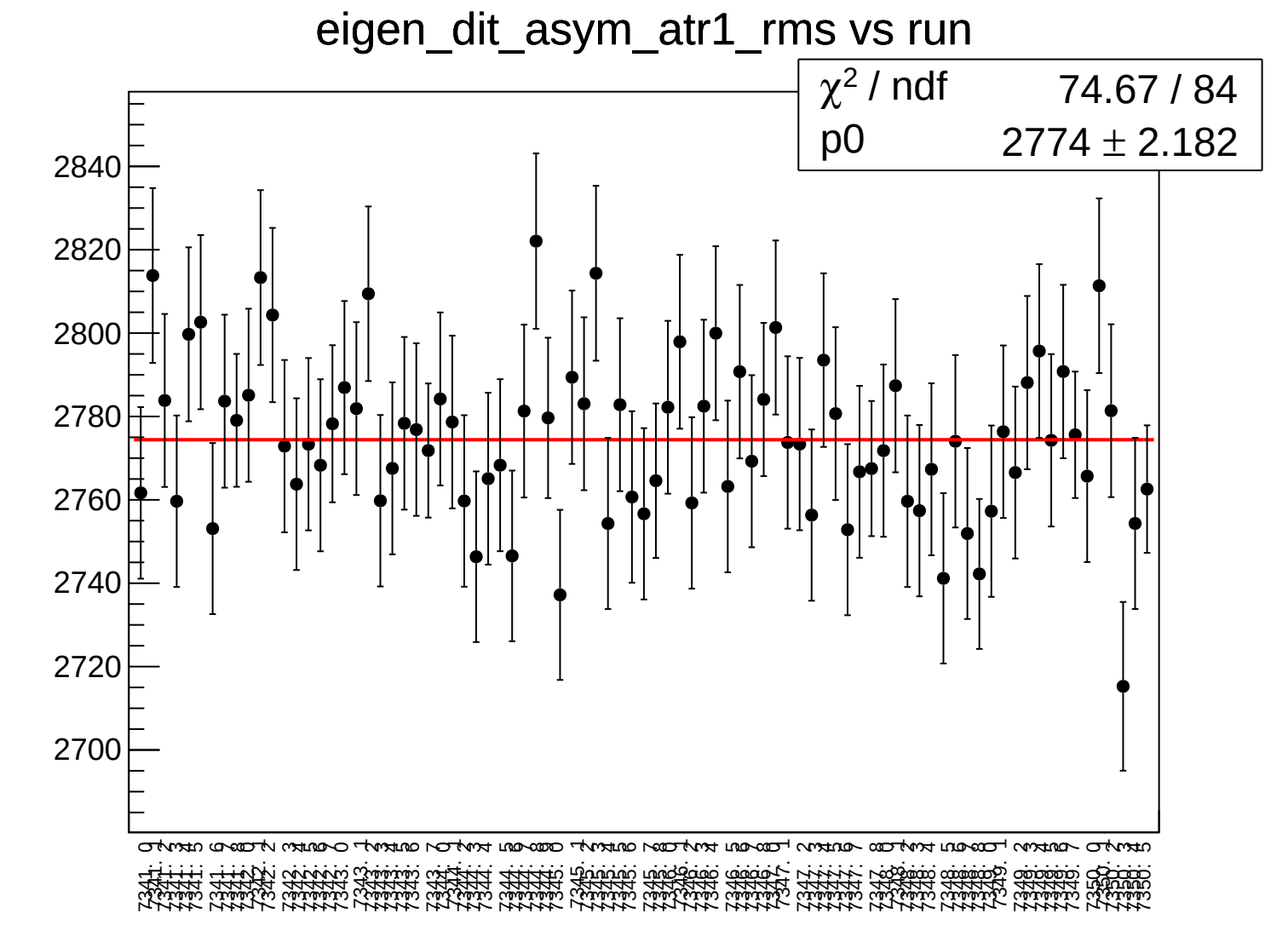

asym_atr1_dit_correction_mean vs run
χ² / ndf 85.02 / 84
p0 −788 ± 944.3
pull
Entries 85
Mean −58.07
Std Dev 0

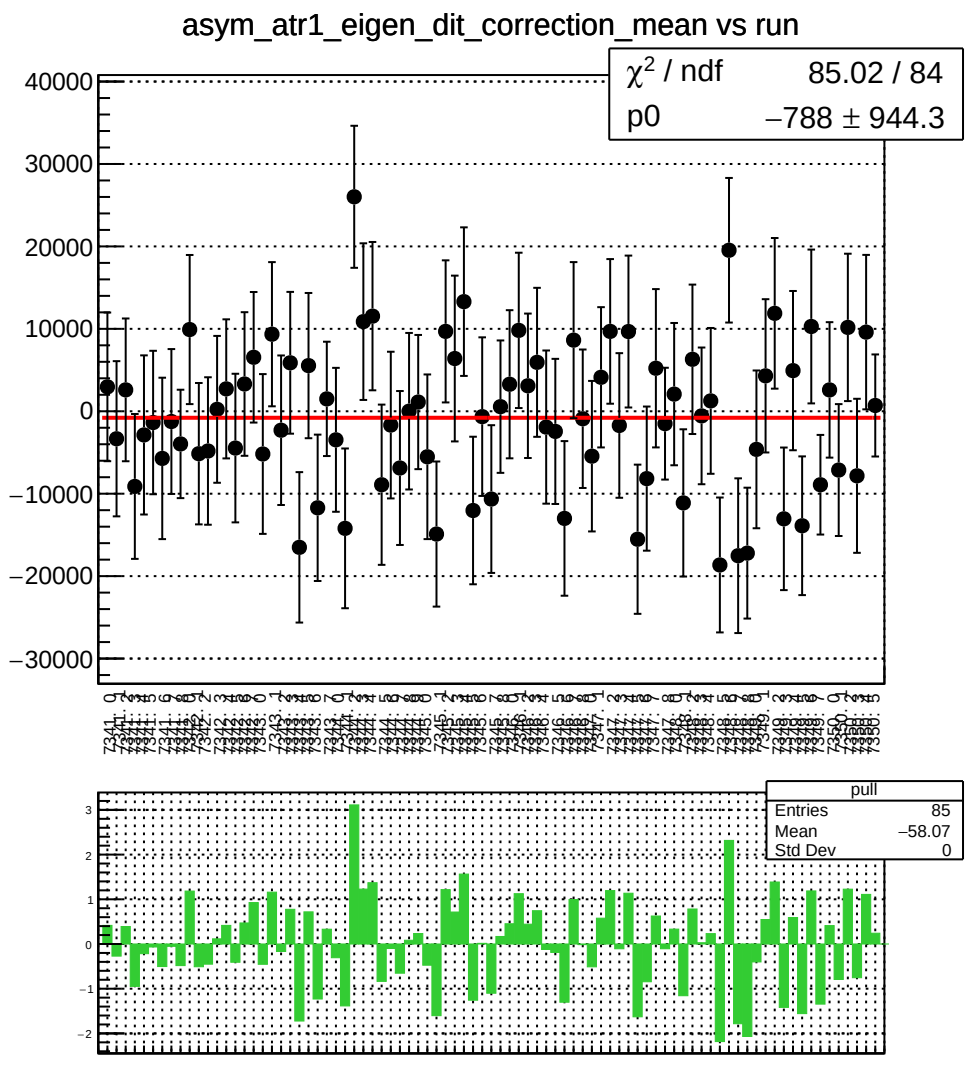

pull1D
Entries 85
Mean 0.009619
Std Dev 1

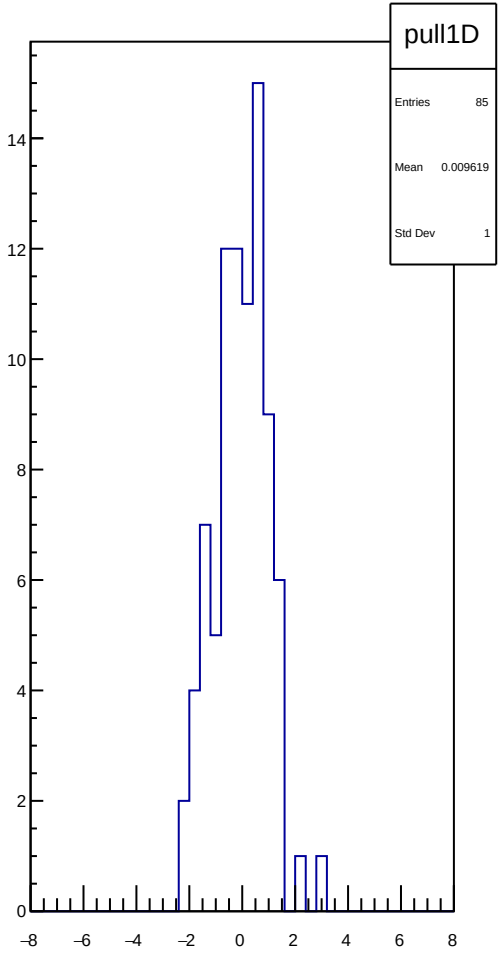

asym_atr1_dit_correction_rms vs run
χ² / ndf 3669 / 84
p0 848 ± 0.6677
950
900
850
800
750

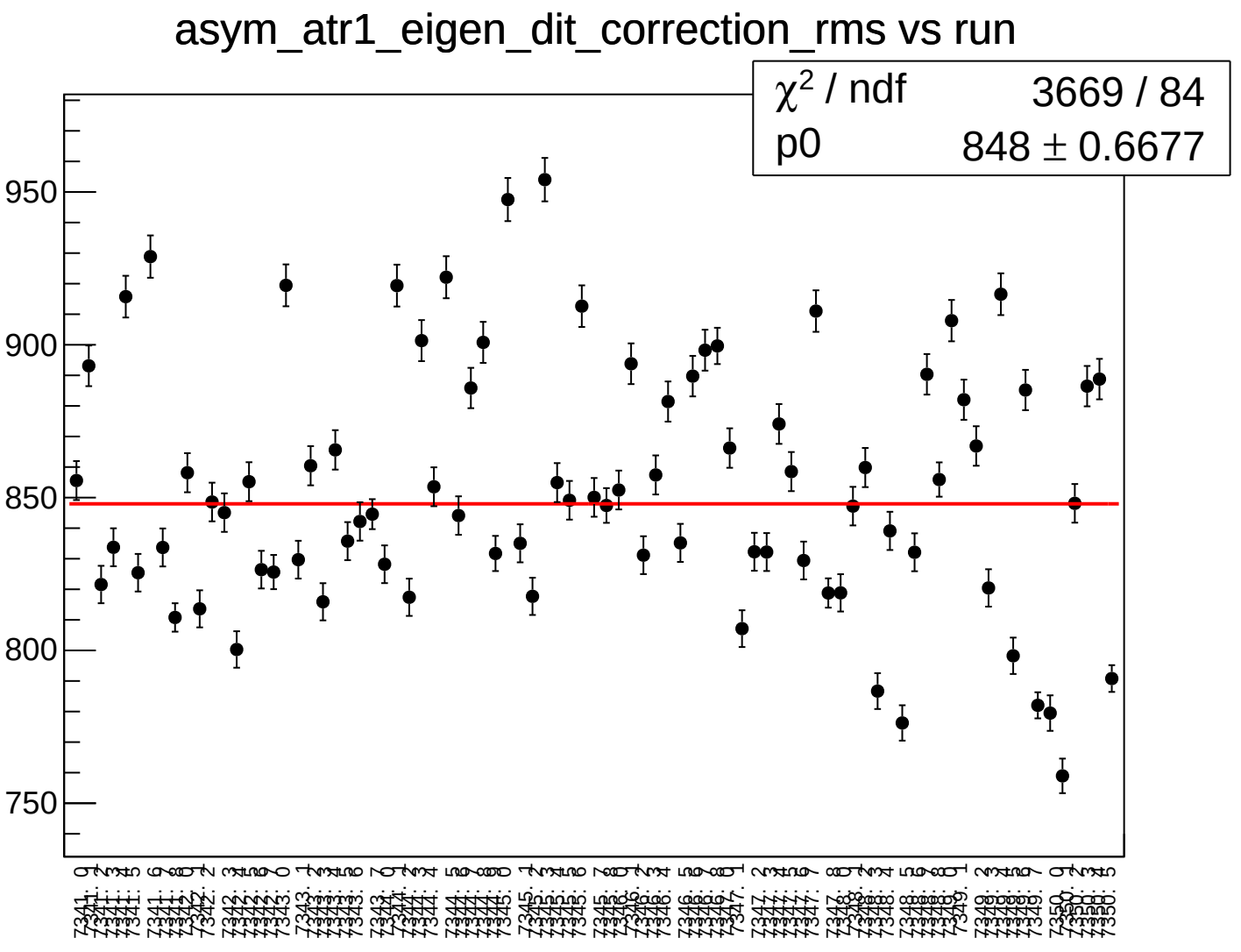

eigen_dit_asym_atr1_mean vs run
χ² / ndf 100.8 / 84
p0 5835 ± 3086
×10³
pull
Entries 85
Mean 99.65
Std Dev 21.36

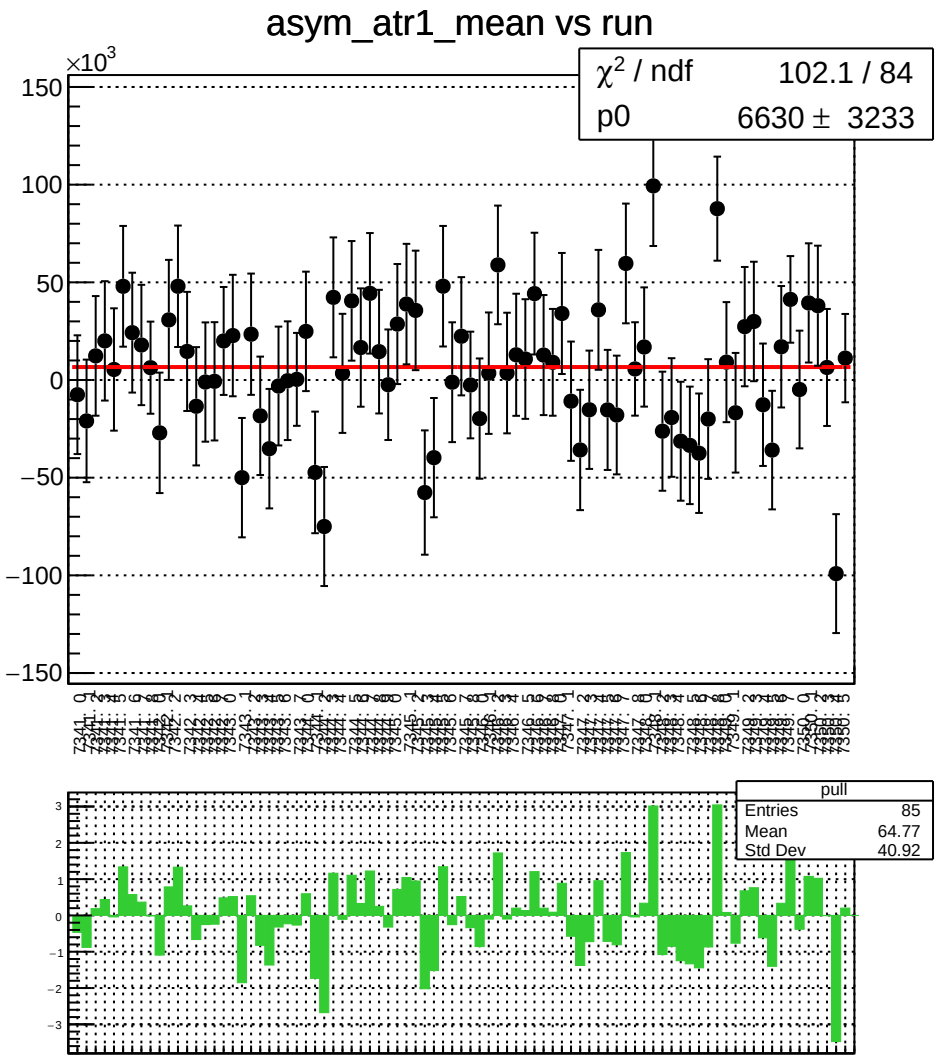

pull1D
Entries 85
Mean −0.008374
Std Dev 1.089

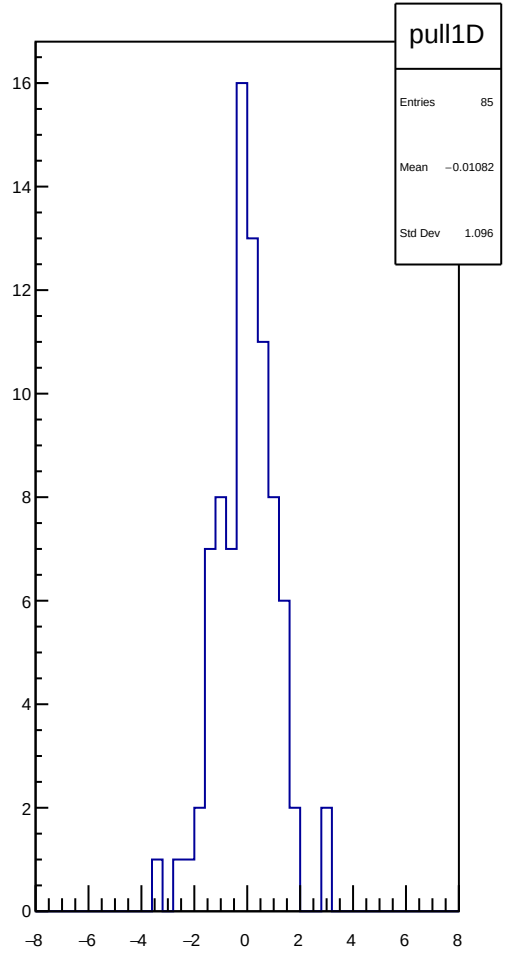

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 74.67 / 84
p0 2774 ± 2.182
2840
2820
2800
2780
2760
2740
2720
2700

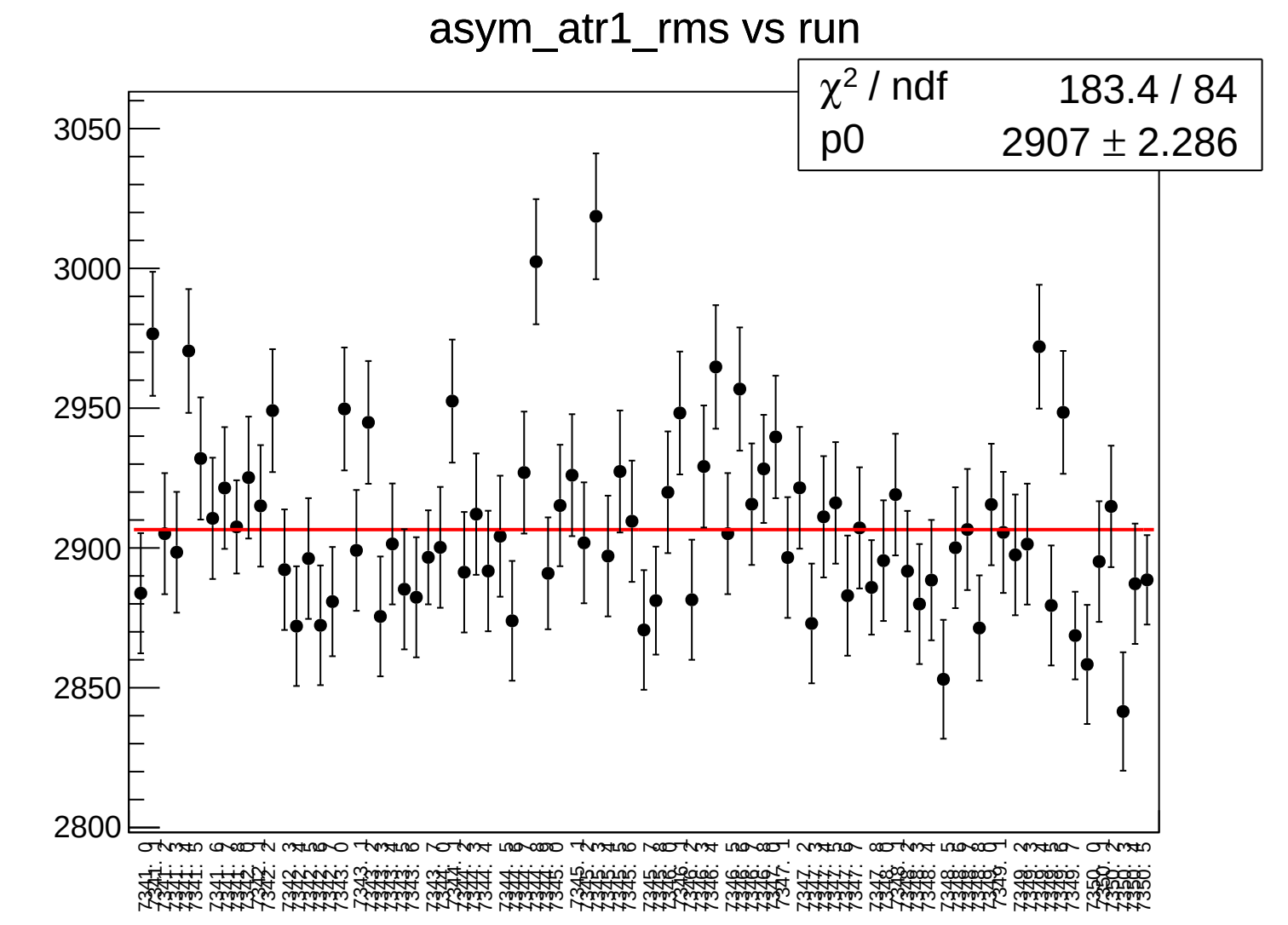

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 85.02 / 84
p0 −788 ± 944.3
pull
Entries 85
Mean −58.07
Std Dev 0

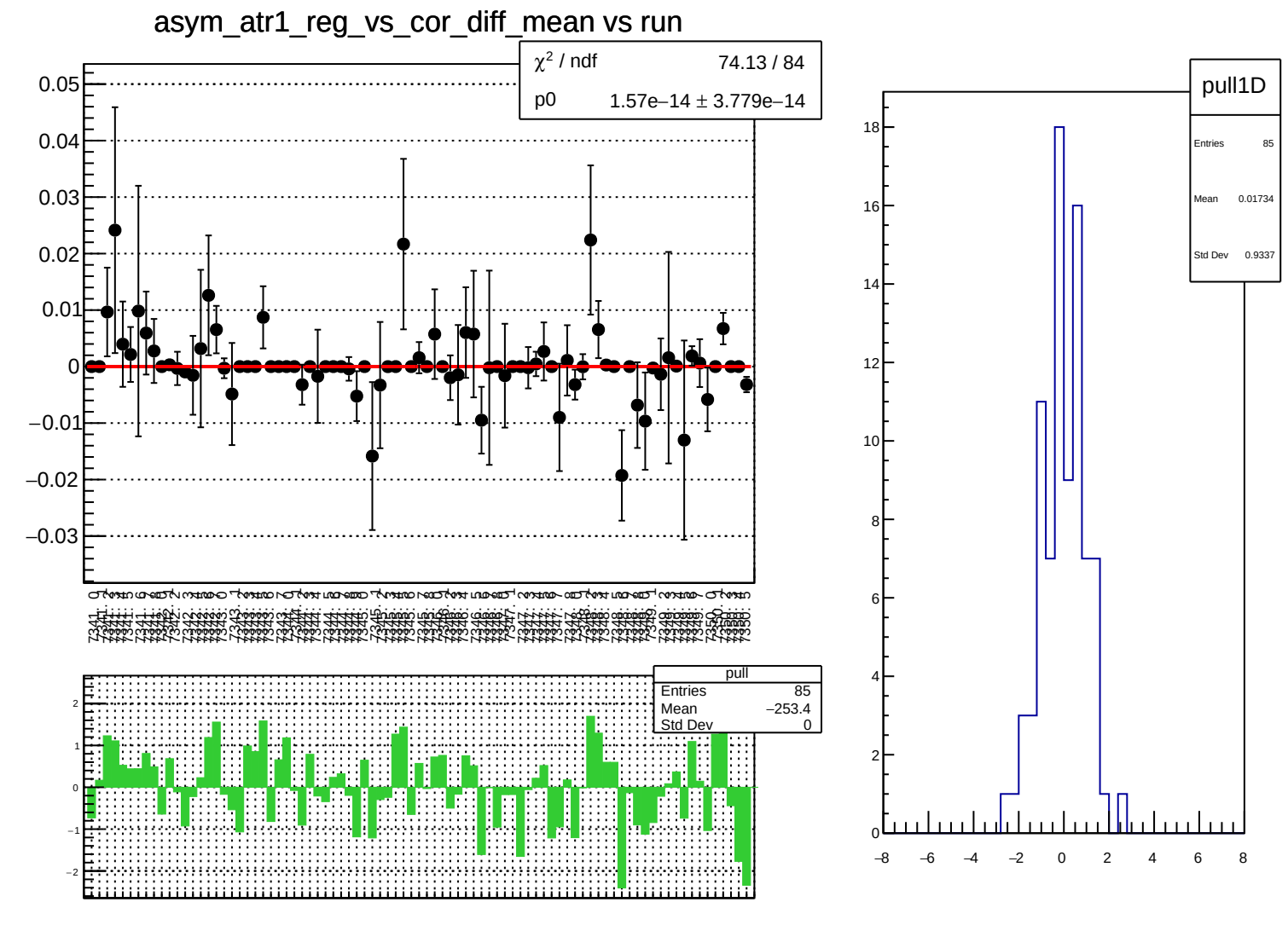

pull1D
Entries 85
Mean 0.009619
Std Dev 1

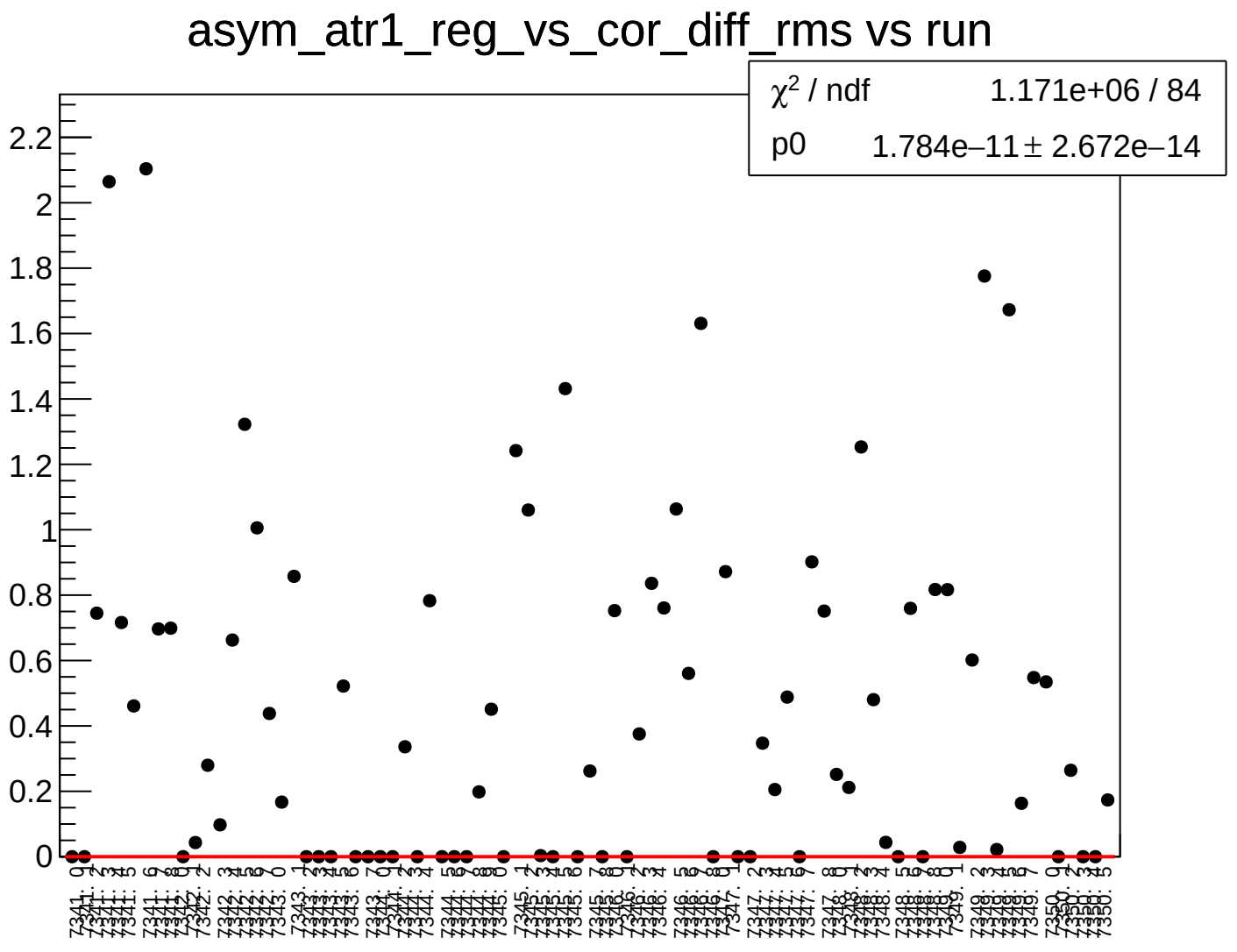

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 3669 / 84
p0 848 ± 0.6677
950
900
850
800
750

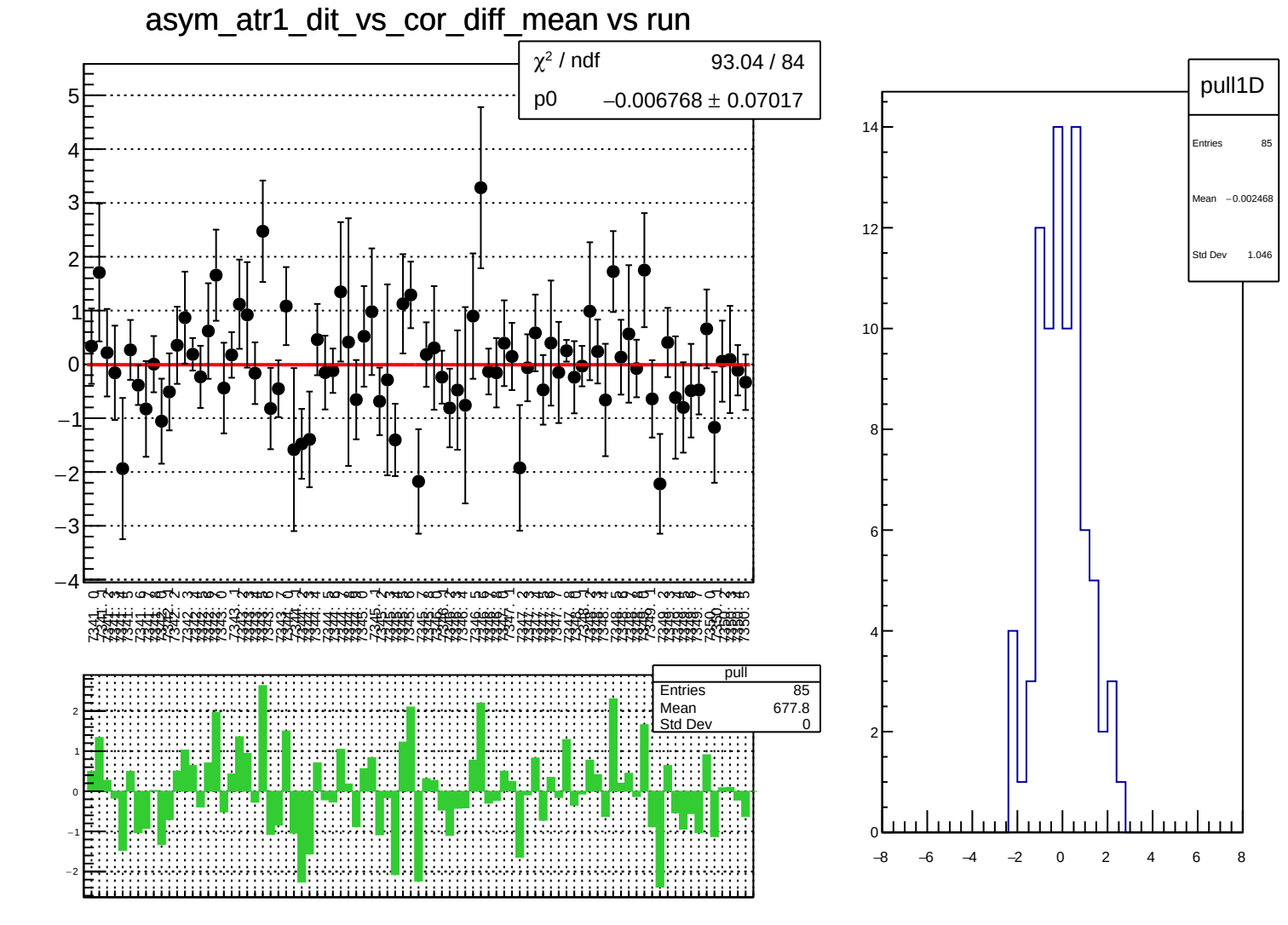

asym_atr1_mean vs run
×10^3
χ² / ndf 102.1 / 84
p0 6630 ± 3233
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean 64.77
Std Dev 40.92
3
2
1
0
−1
−2
−3

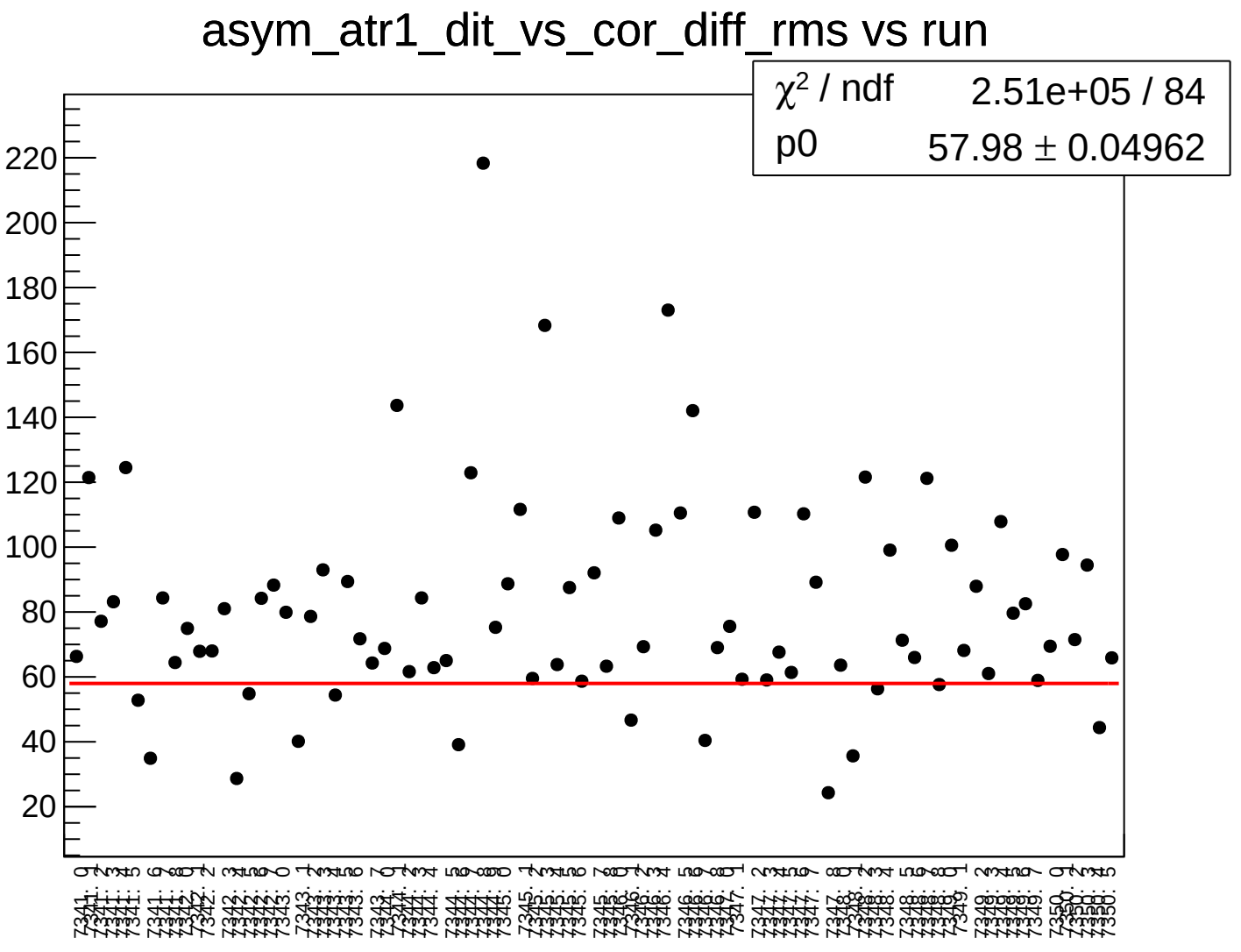

pull1D
Entries 85
Mean −0.01082
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

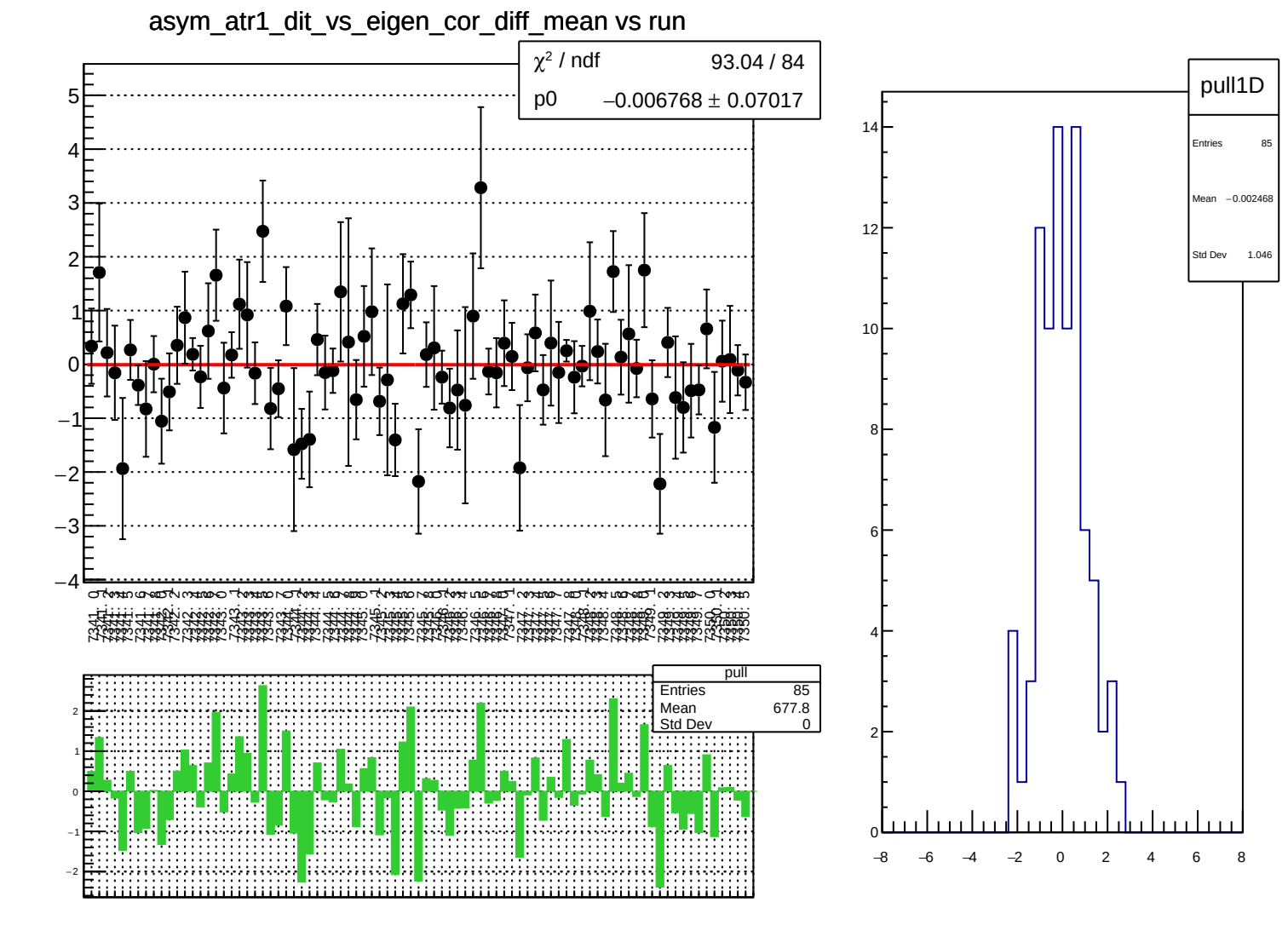

asym_atr1_rms vs run
χ^2 / ndf 183.4 / 84
p0 2907 ± 2.286
3050
3000
2950
2900
2850
2800

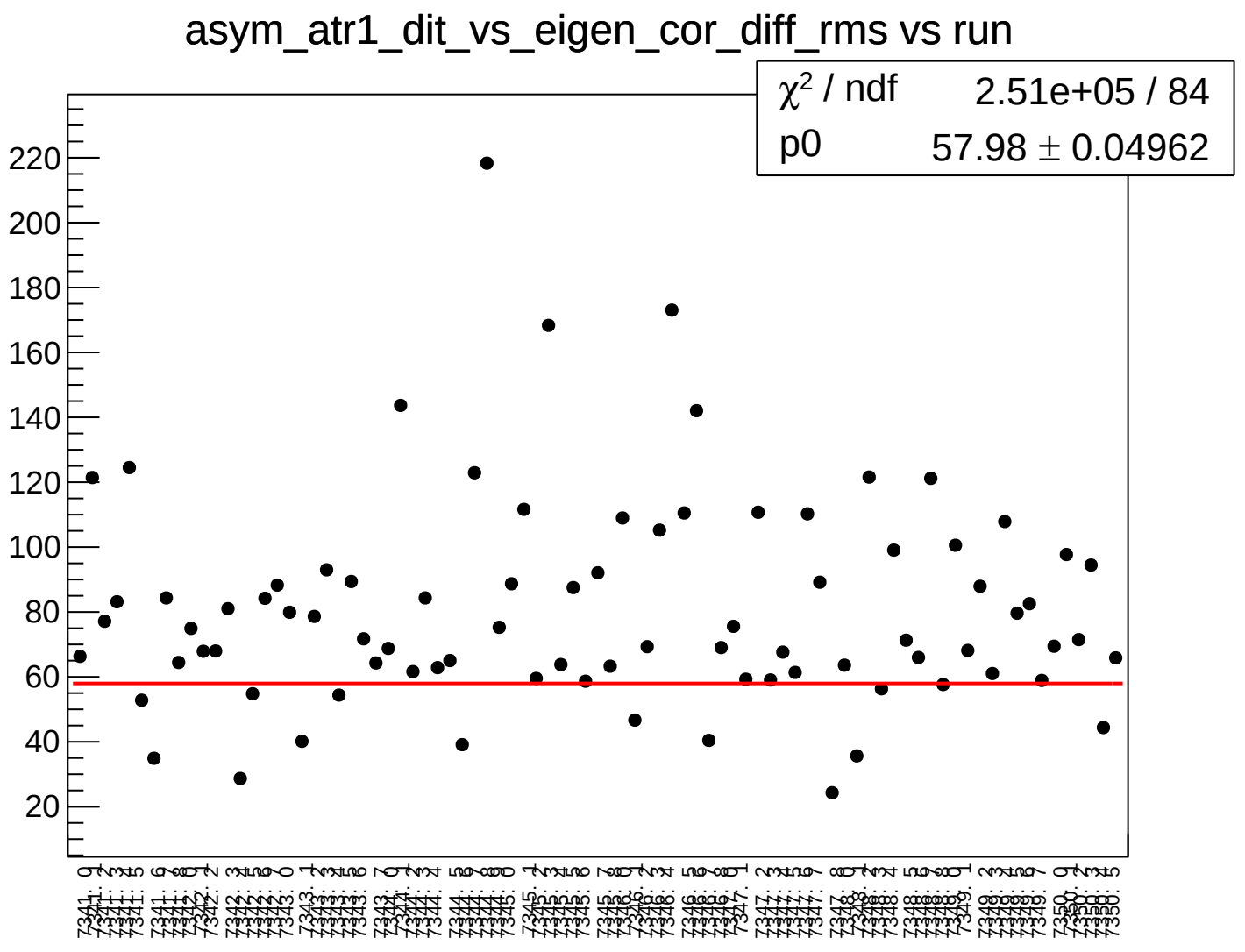

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 74.13 / 84
p0 1.57e−14 ± 3.779e−14
pull
Entries 85
Mean −253.4
Std Dev 0
pull1D
Entries 85
Mean 0.01734
Std Dev 0.9337

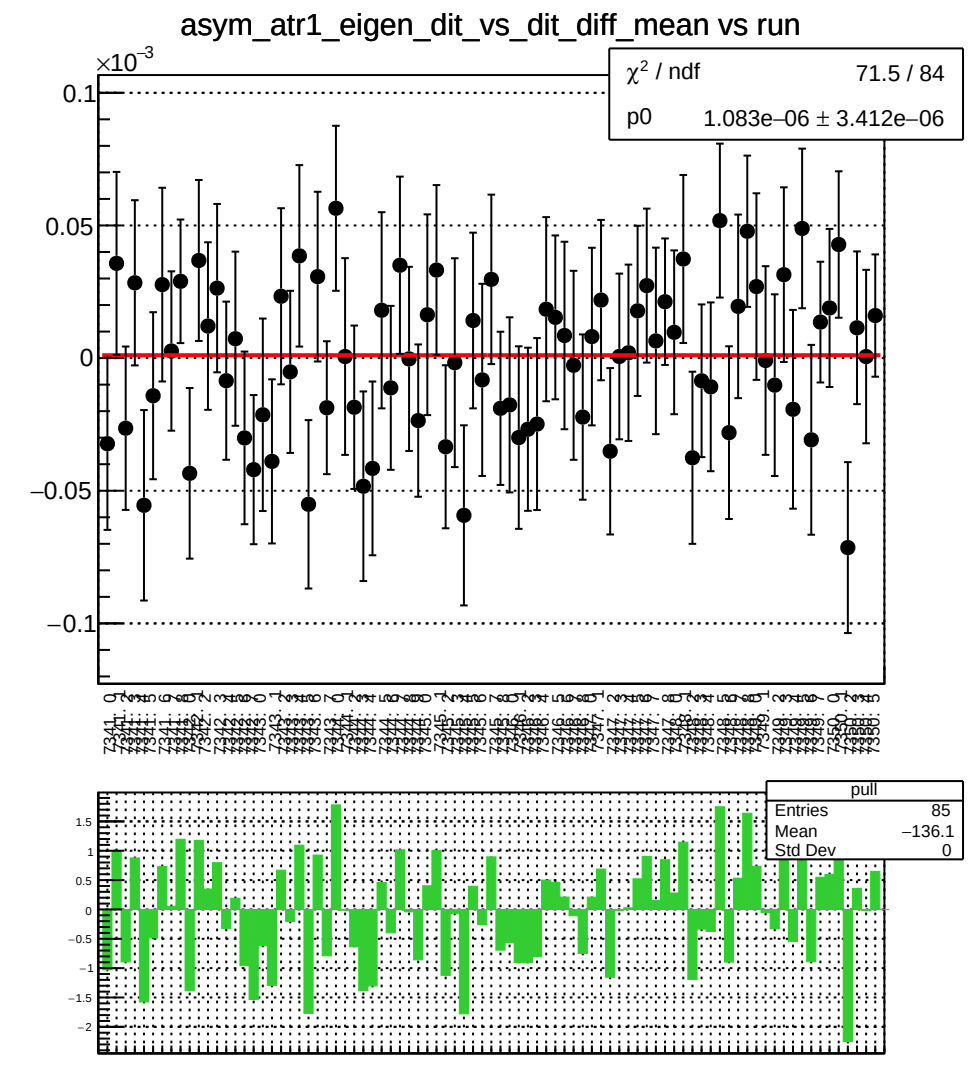

asym_atr1_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.171e+06 / 84
p0 1.784e−11 ± 2.672e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

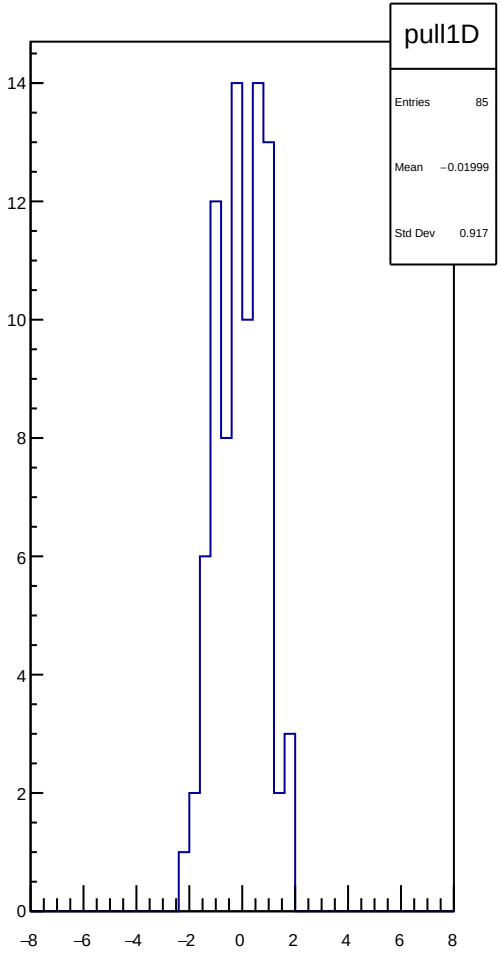

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 93.04 / 84
p0 −0.006768 ± 0.07017
pull
Entries 85
Mean 677.8
Std Dev 0
pull1D
Entries 85
Mean −0.002468
Std Dev 1.046

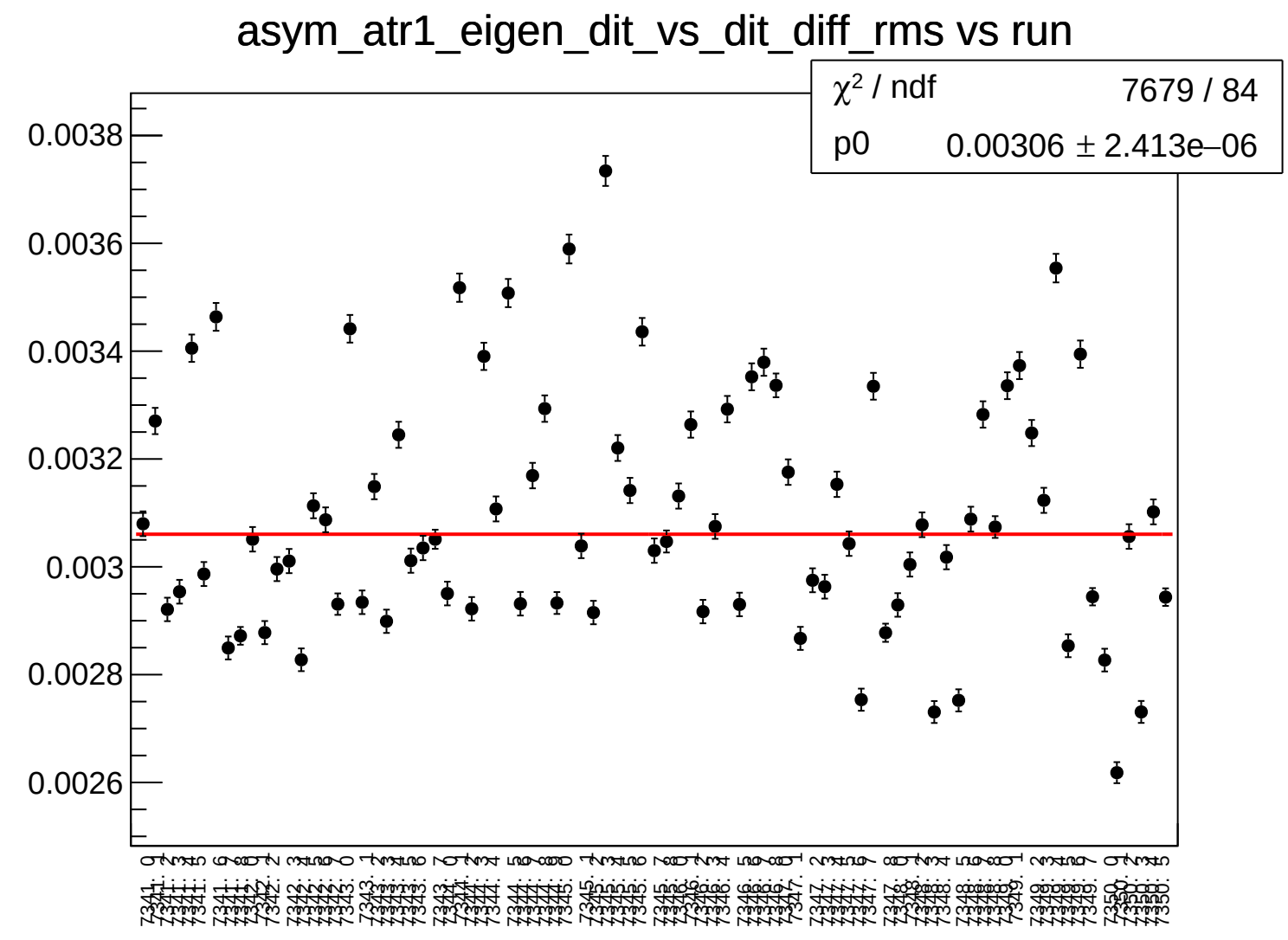

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.51e+05 / 84
p0 57.98 ± 0.04962
220
200
180
160
140
120
100
80
60
40
20

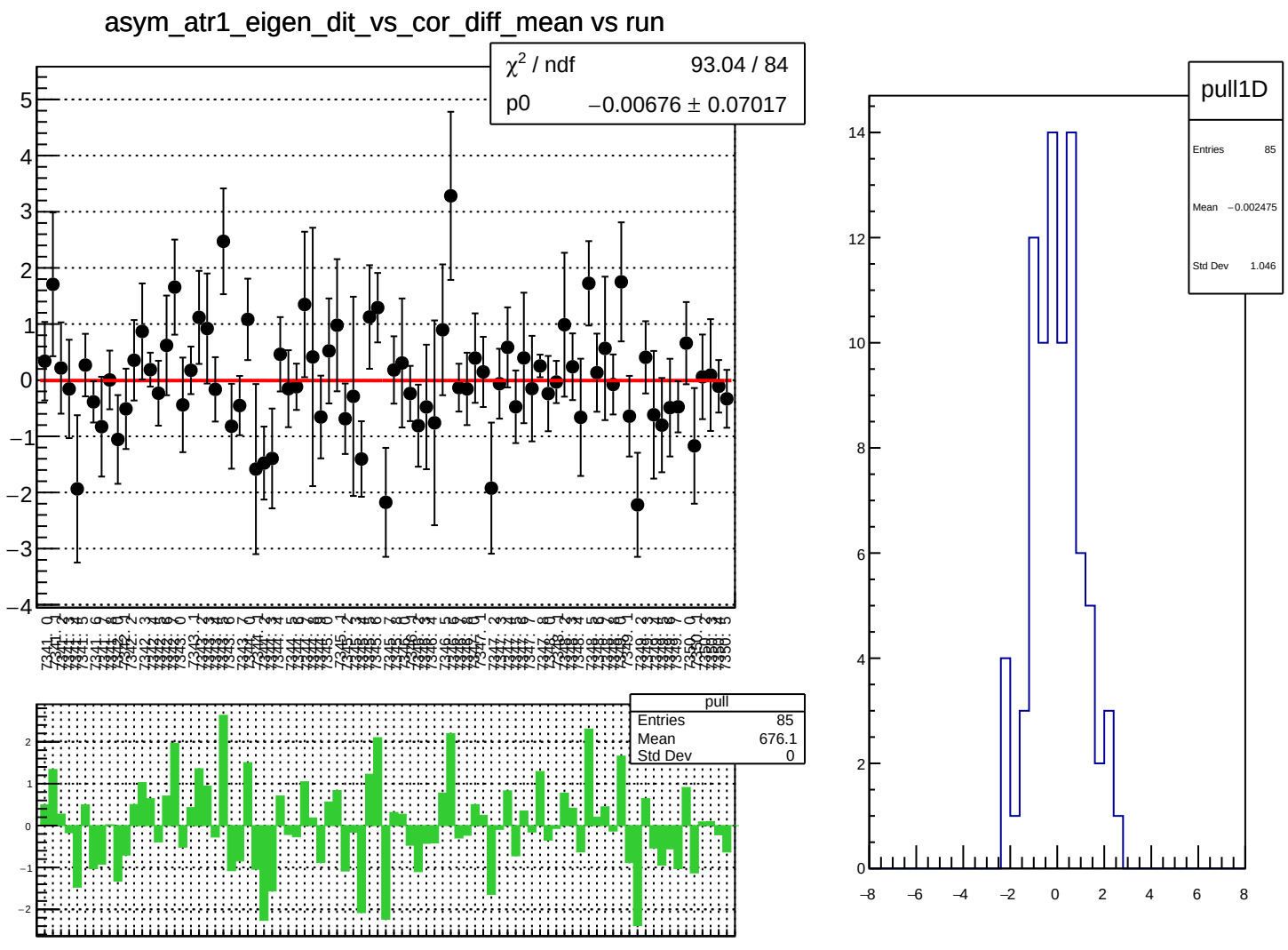

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.04 / 84
p0 −0.006768 ± 0.07017
pull
Entries 85
Mean 677.8
Std Dev 0
pull1D
Entries 85
Mean −0.002468
Std Dev 1.046

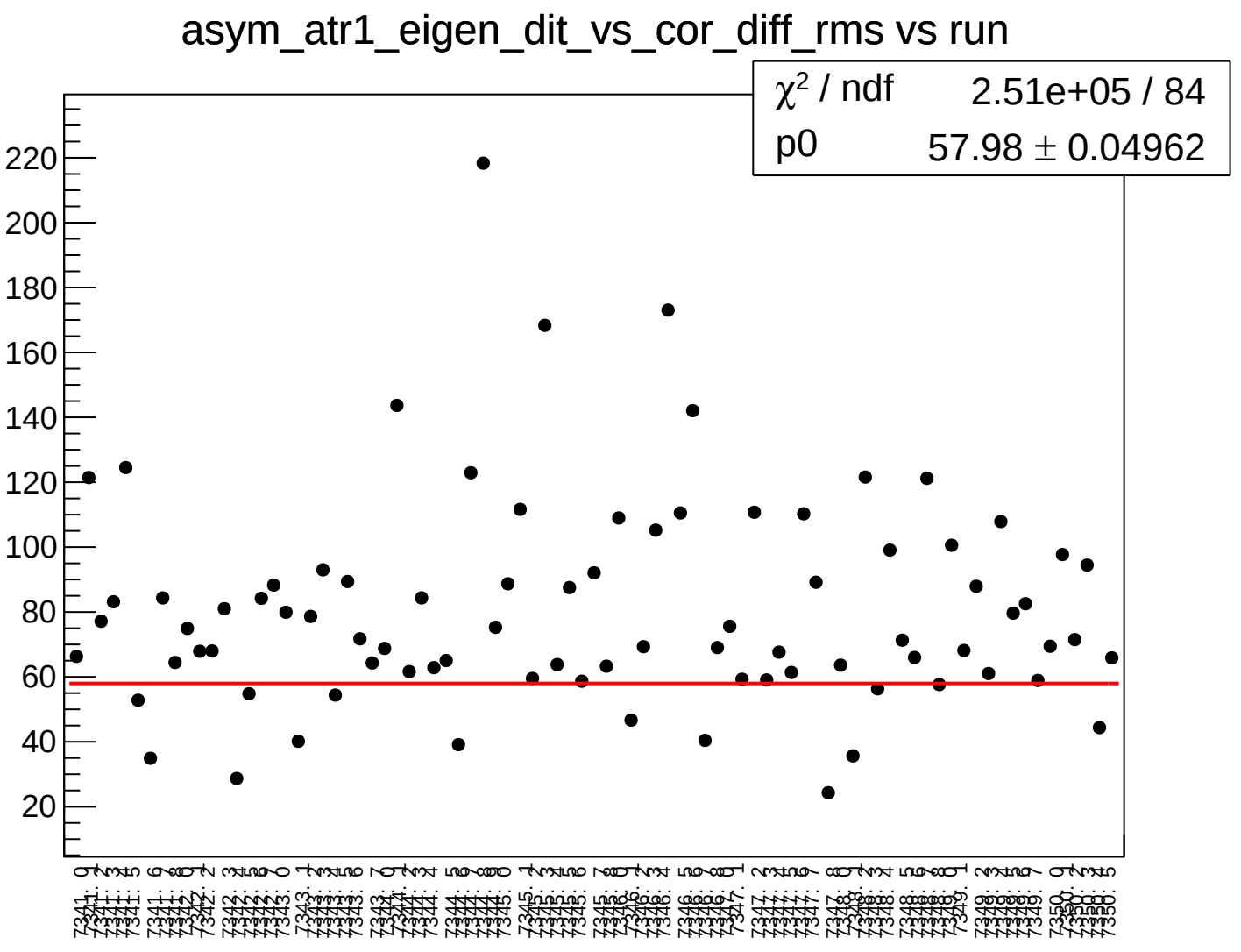

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.51e+05 / 84
p0 57.98 ± 0.04962
220
200
180
160
140
120
100
80
60
40
20

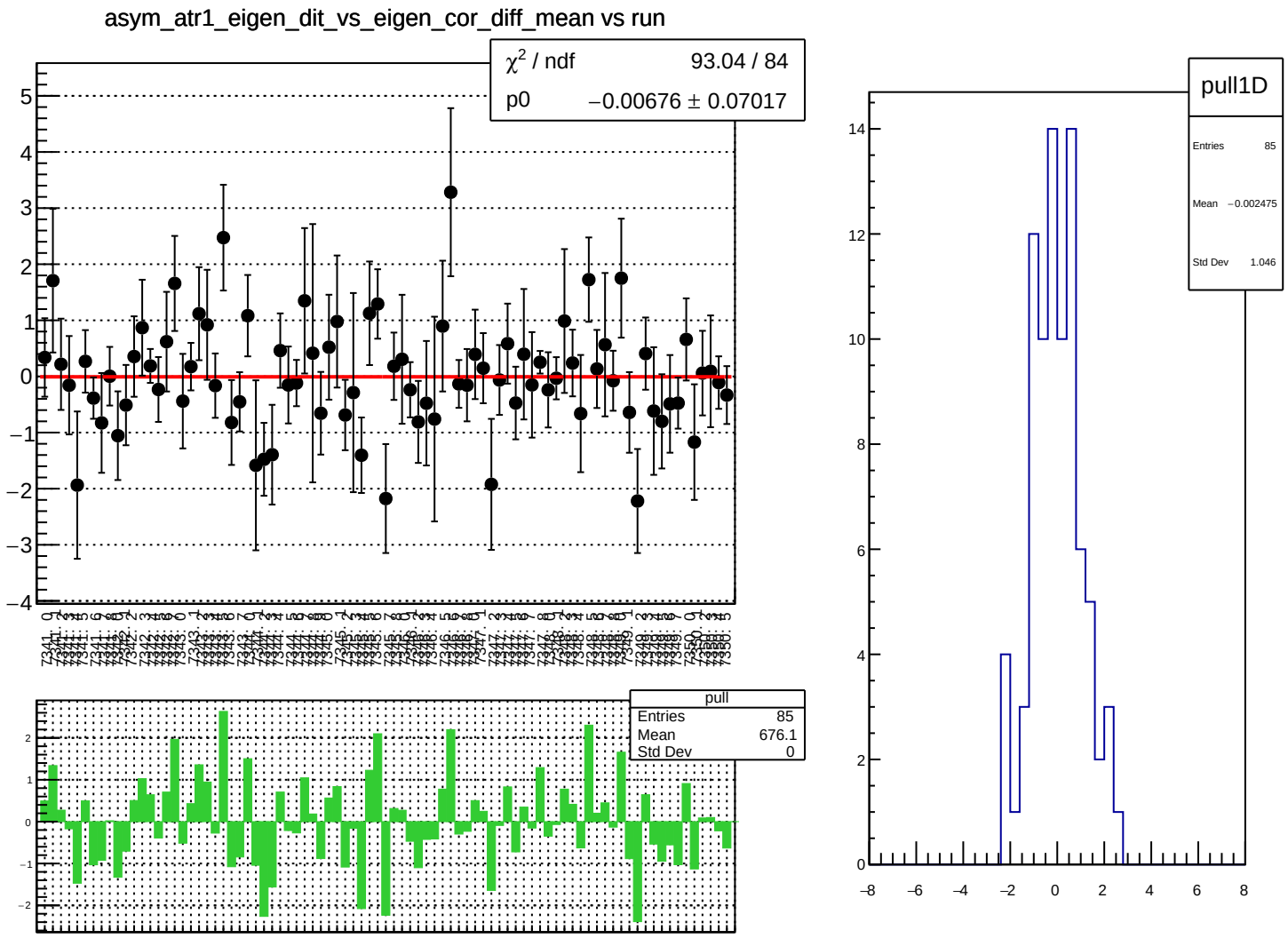

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.5 / 84
p0 1.083e−06 ± 3.412e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean −136.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

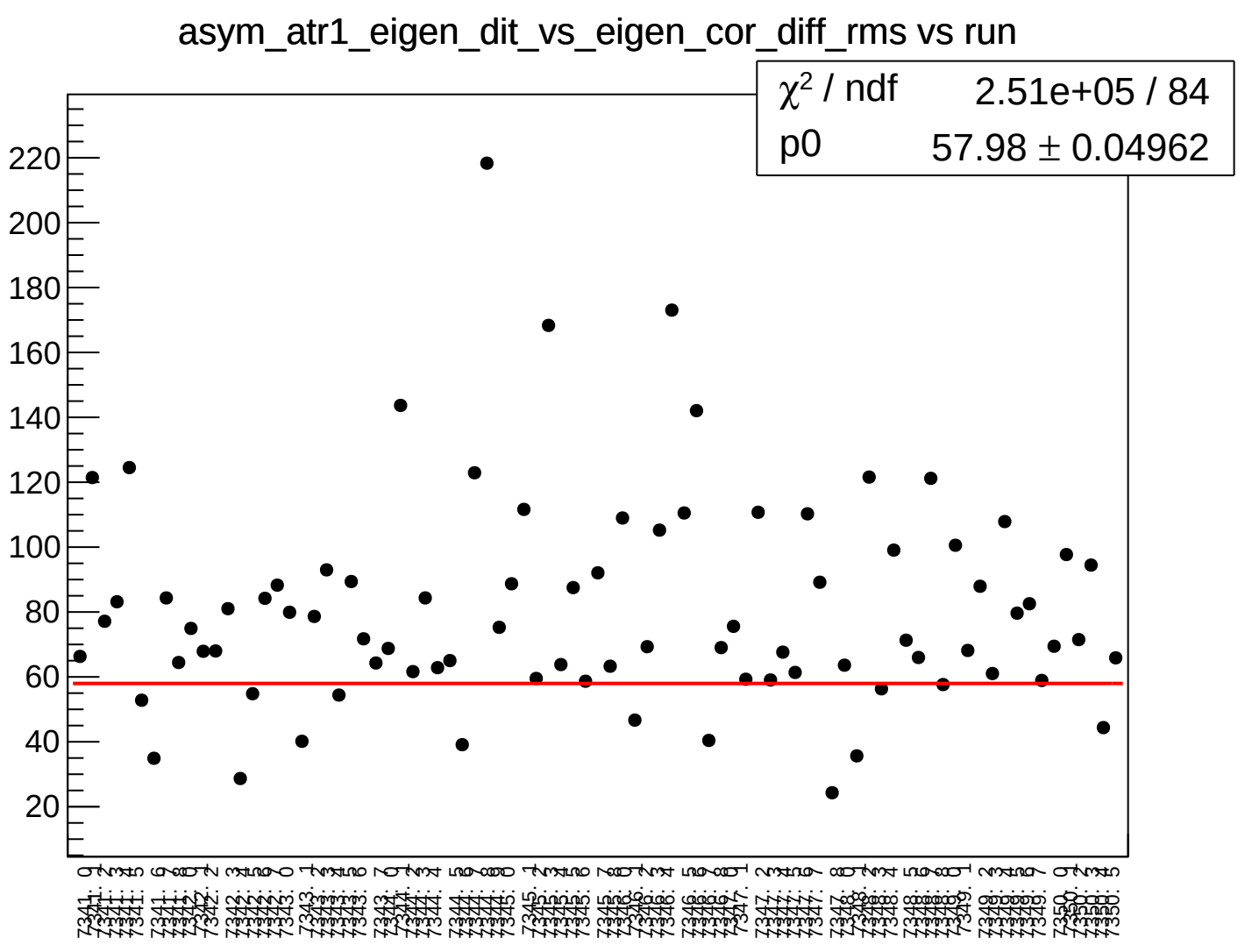

pull1D
Entries 85
Mean −0.01999
Std Dev 0.917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

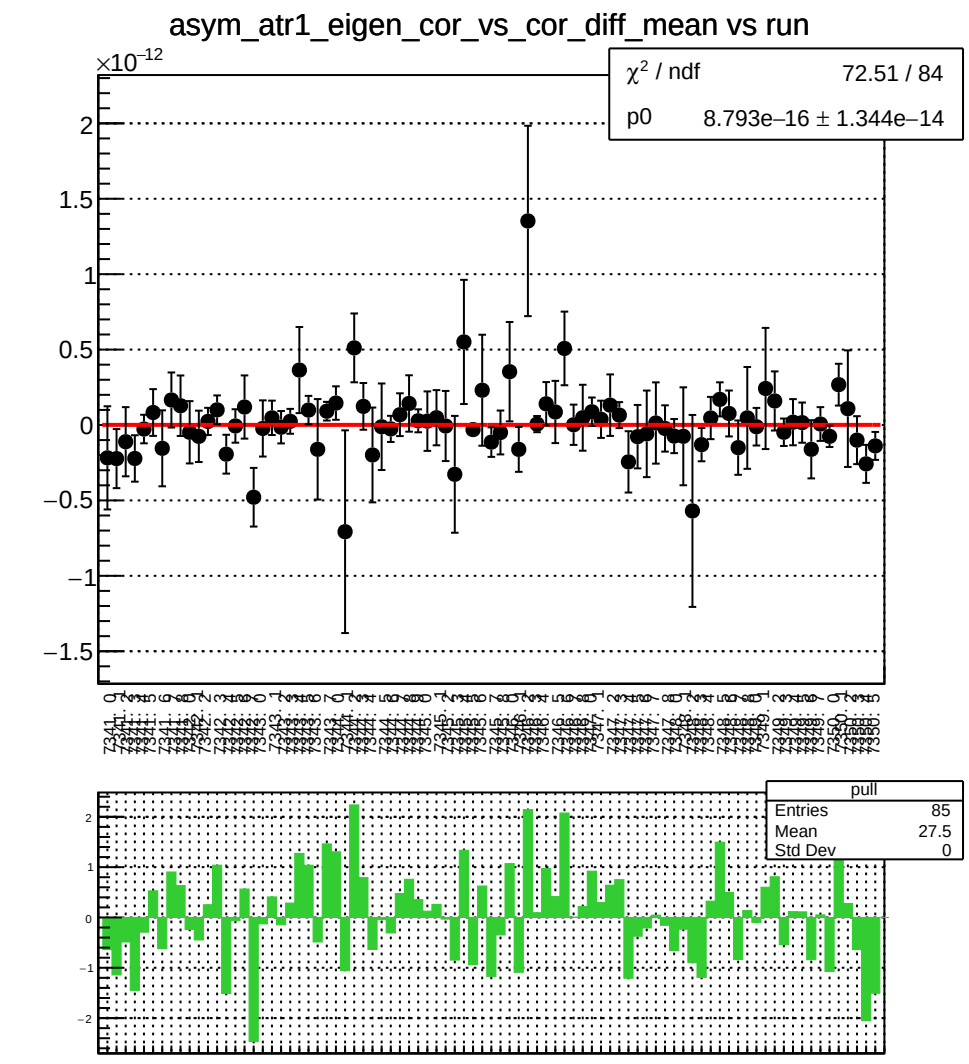

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7679 / 84
p0 0.00306 ± 2.413e–06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

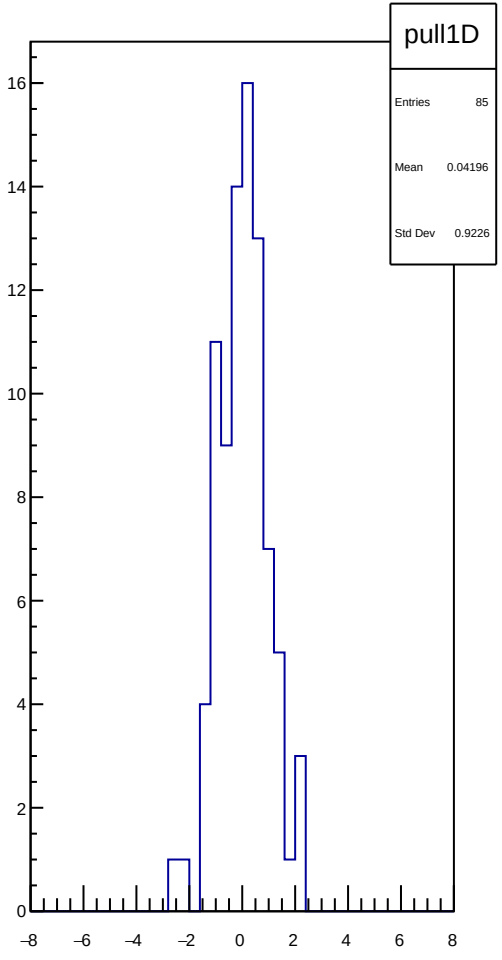

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.04 / 84
p0 −0.00676 ± 0.07017
pull
Entries 85
Mean 676.1
Std Dev 0
pull1D
Entries 85
Mean −0.002475
Std Dev 1.046

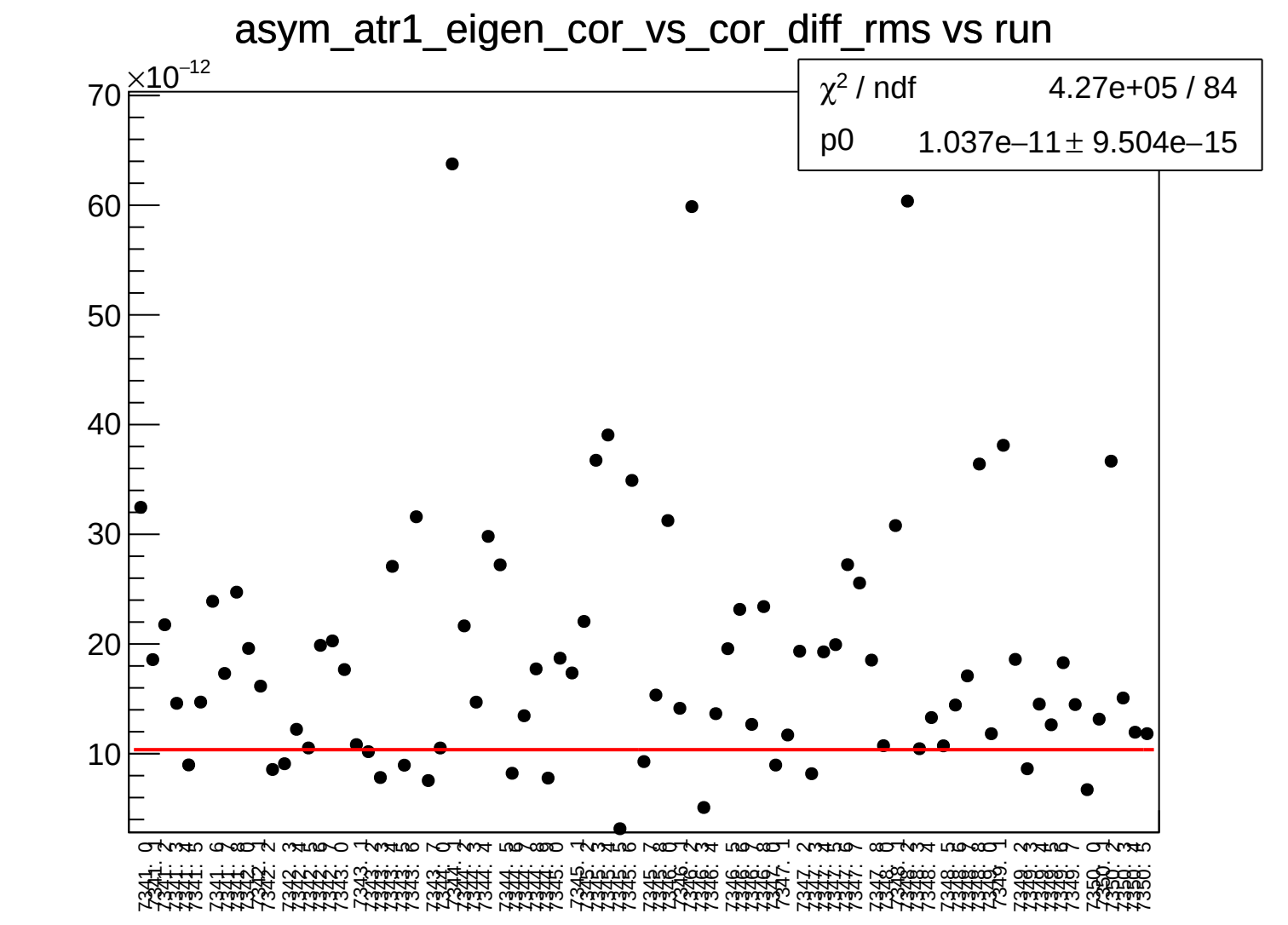

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.51e+05 / 84
p0 57.98 ± 0.04962
220
200
180
160
140
120
100
80
60
40
20

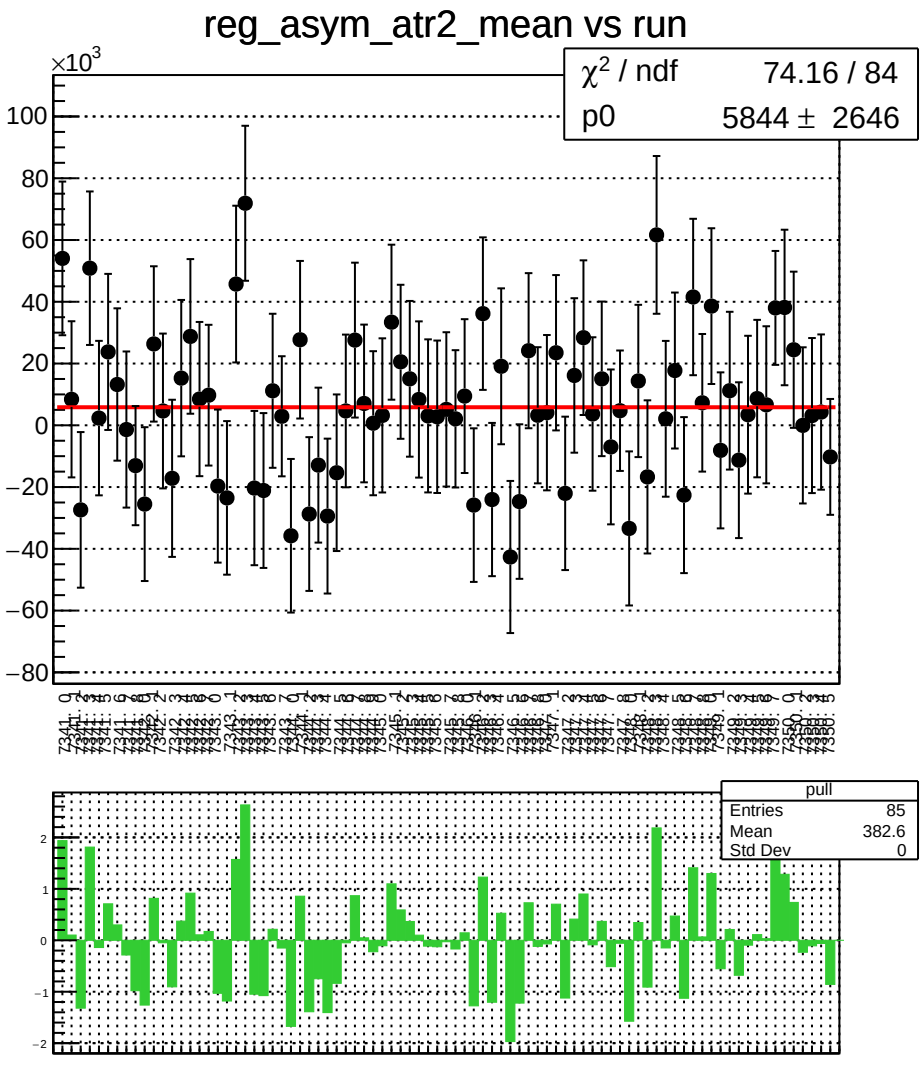

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.04 / 84
p0 −0.00676 ± 0.07017
pull
Entries 85
Mean 676.1
Std Dev 0
pull1D
Entries 85
Mean −0.002475
Std Dev 1.046

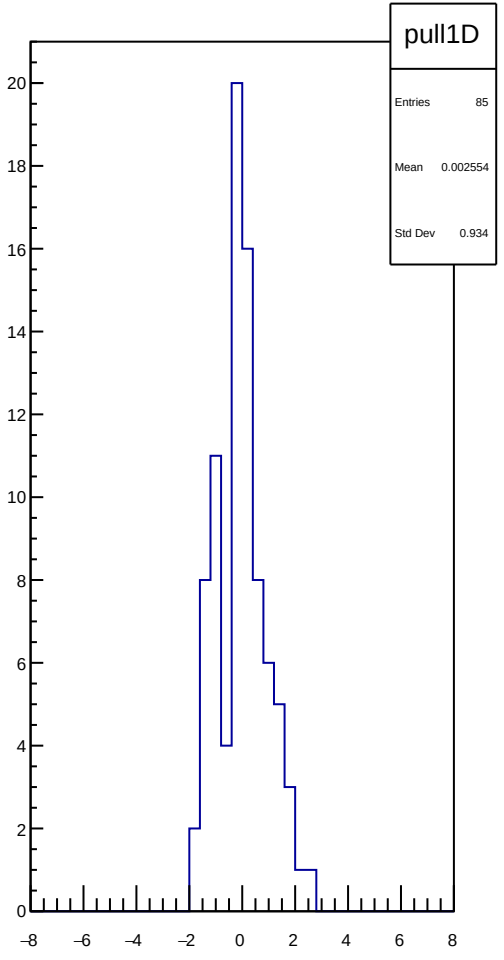

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.51e+05 / 84
p0 57.98 ± 0.04962
220
200
180
160
140
120
100
80
60
40
20

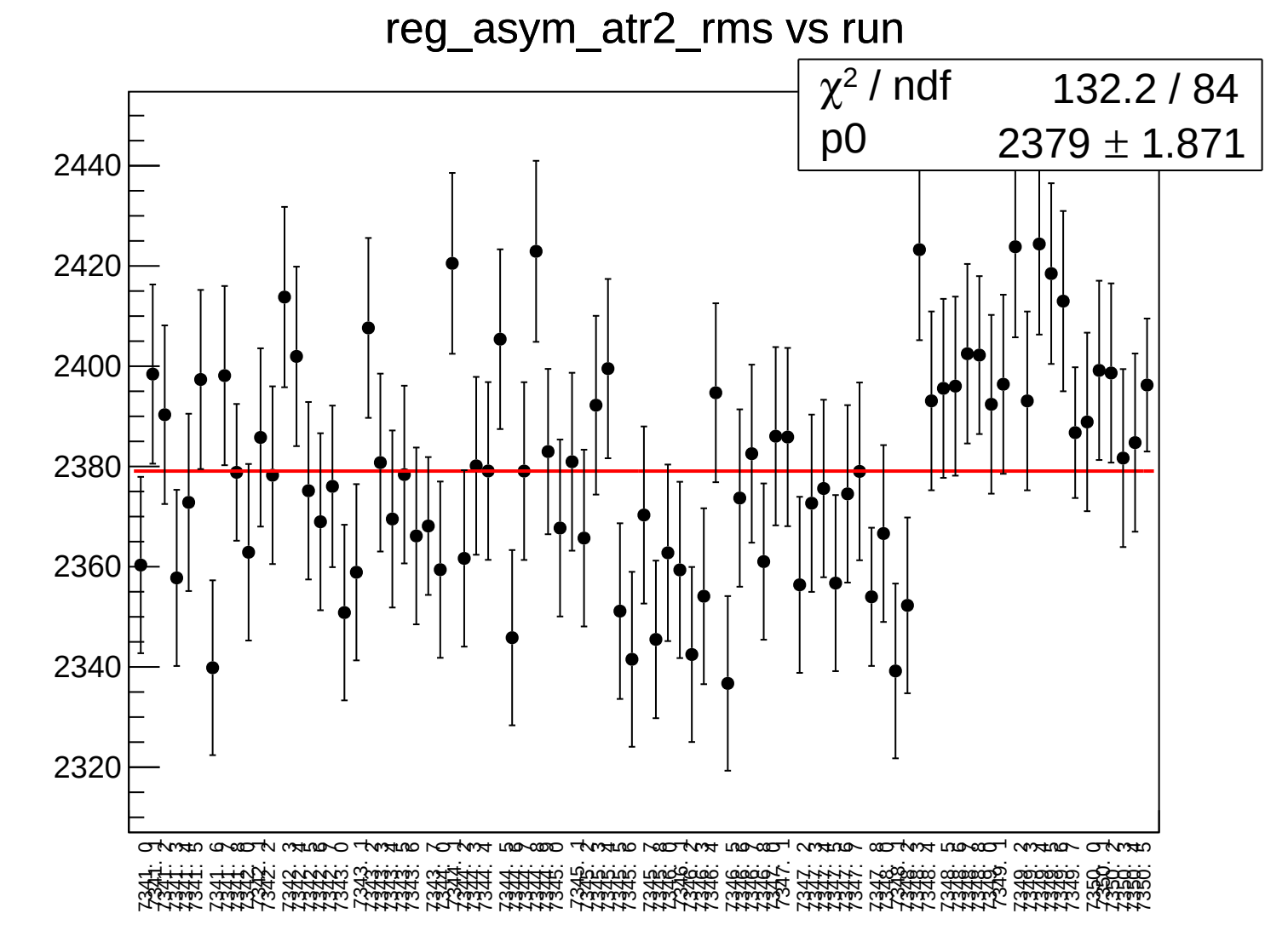

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 72.51 / 84
p0 8.793e−16 ± 1.344e−14
pull
Entries 85
Mean 27.5
Std Dev 0

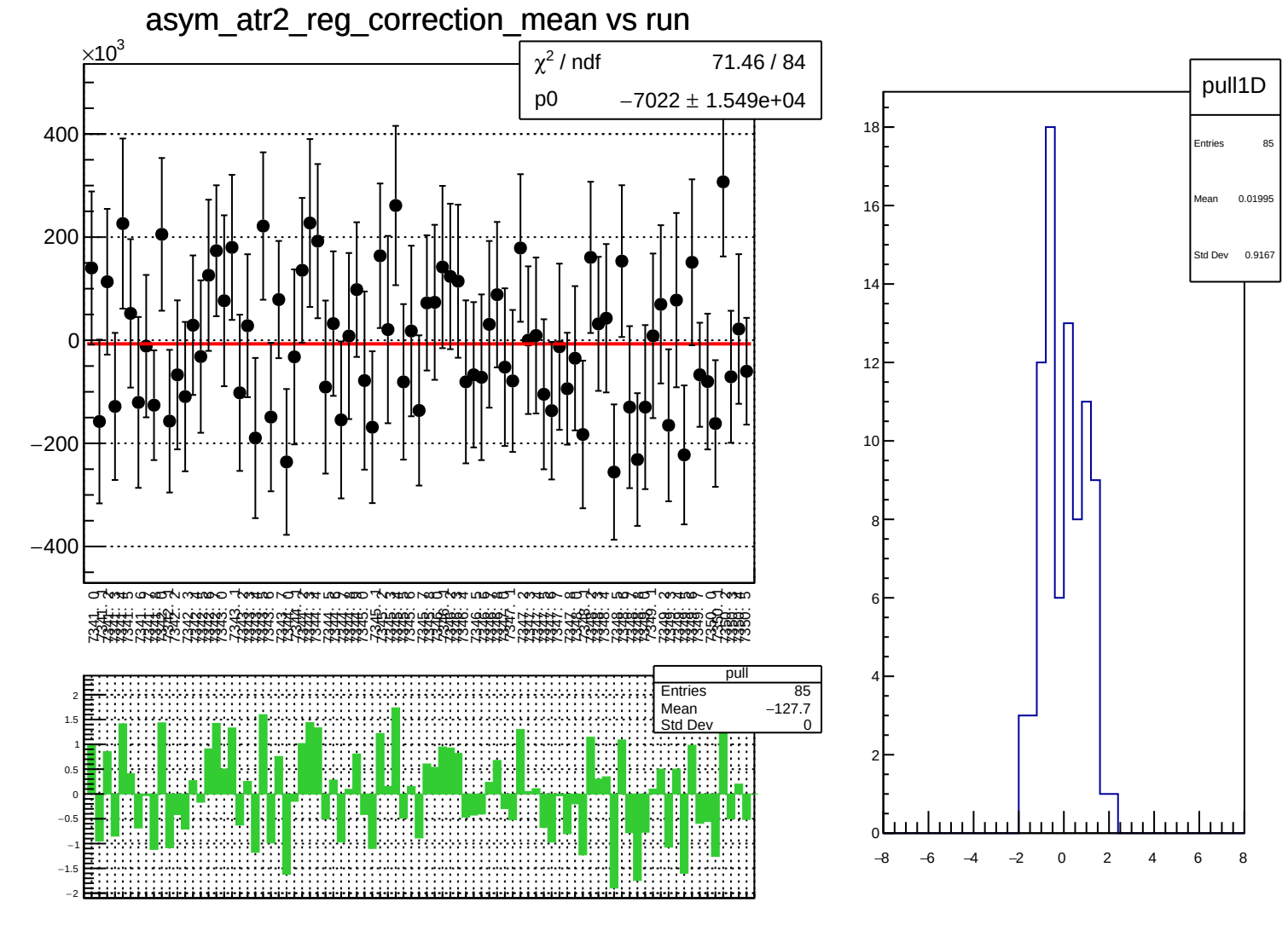

pull1D
Entries 85
Mean 0.04196
Std Dev 0.9226

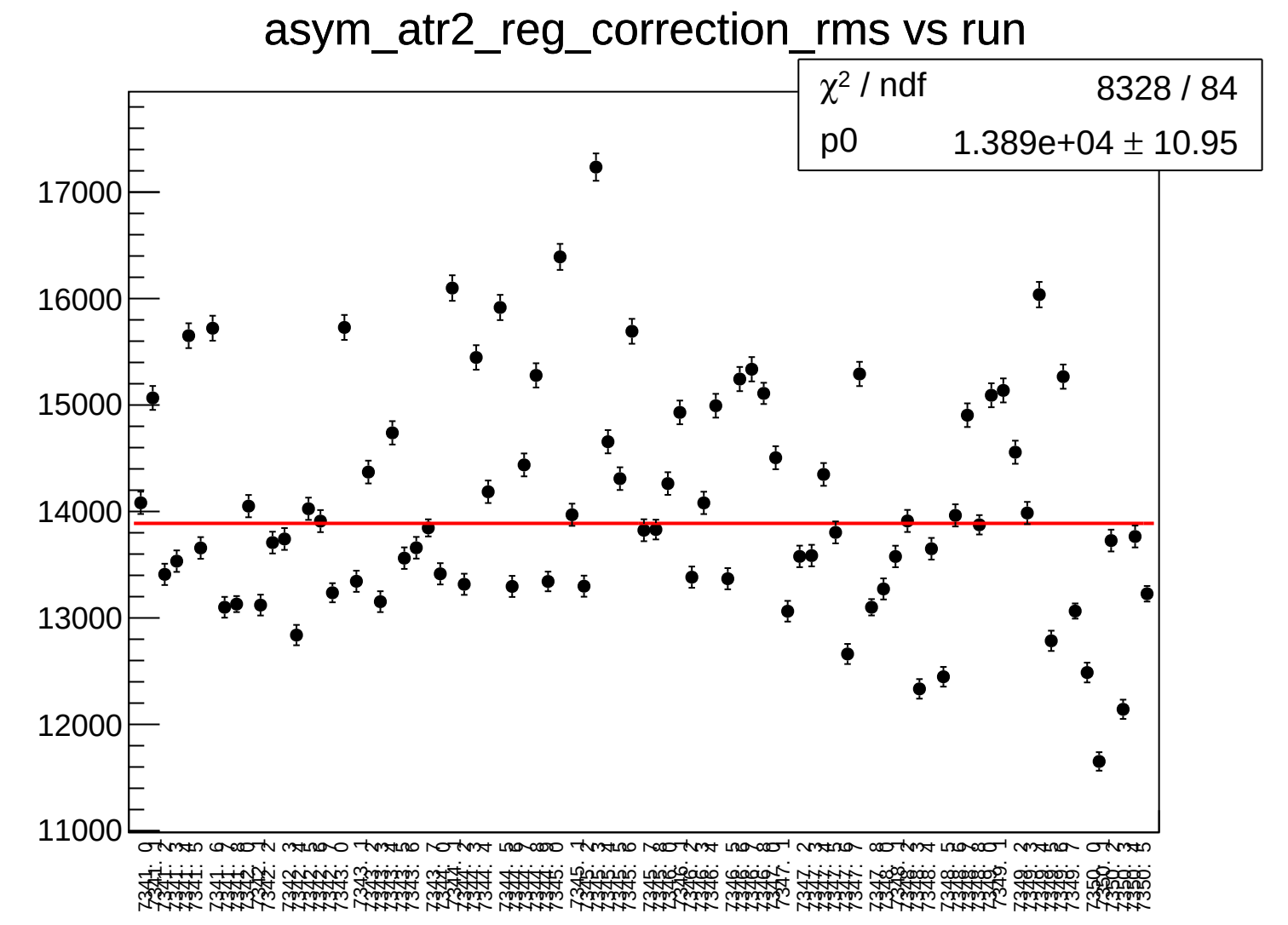

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 4.27e+05 / 84
p0 1.037e−11 ± 9.504e−15

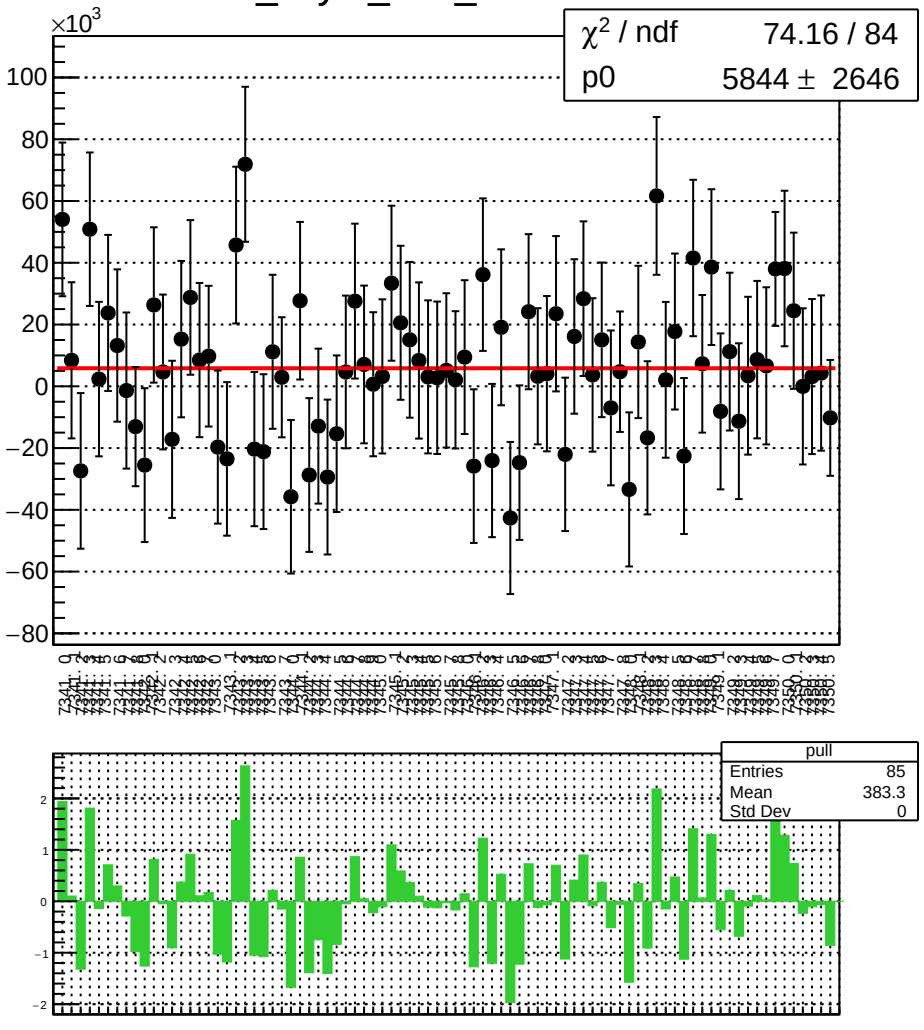

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 74.16 / 84
p0 5844 ± 2646
pull
Entries 85
Mean 382.6
Std Dev 0

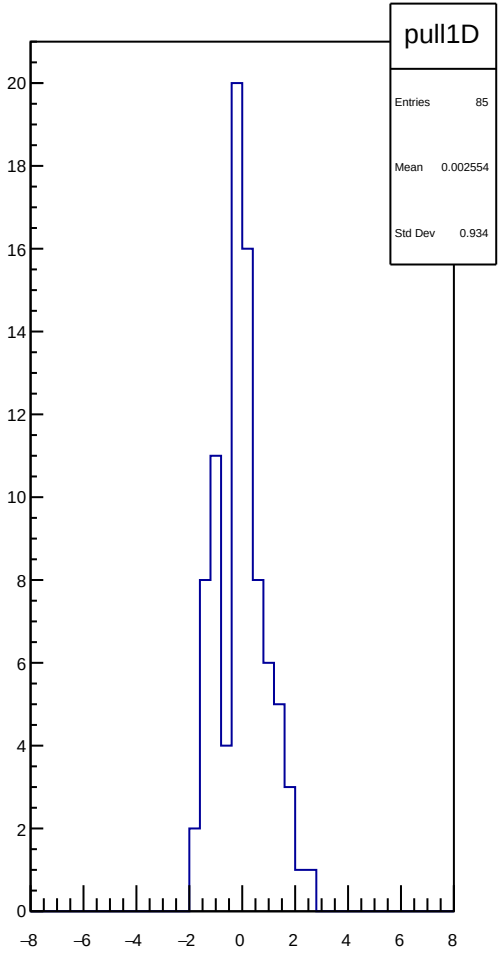

pull1D
Entries 85
Mean 0.002554
Std Dev 0.934

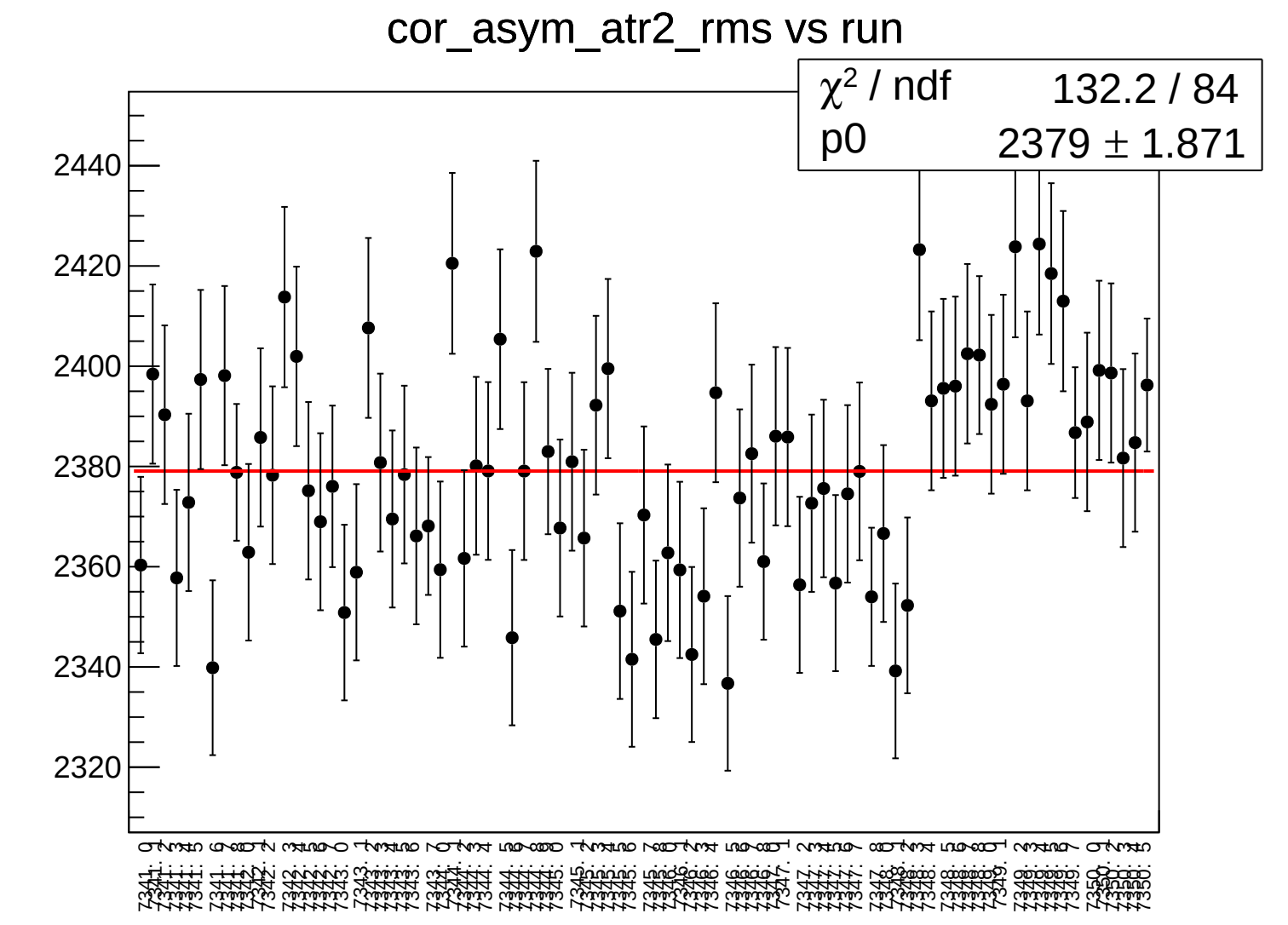

reg_asym_atr2_rms vs run
χ^2 / ndf 132.2 / 84
p0 2379 ± 1.871
2440
2420
2400
2380
2360
2340
2320

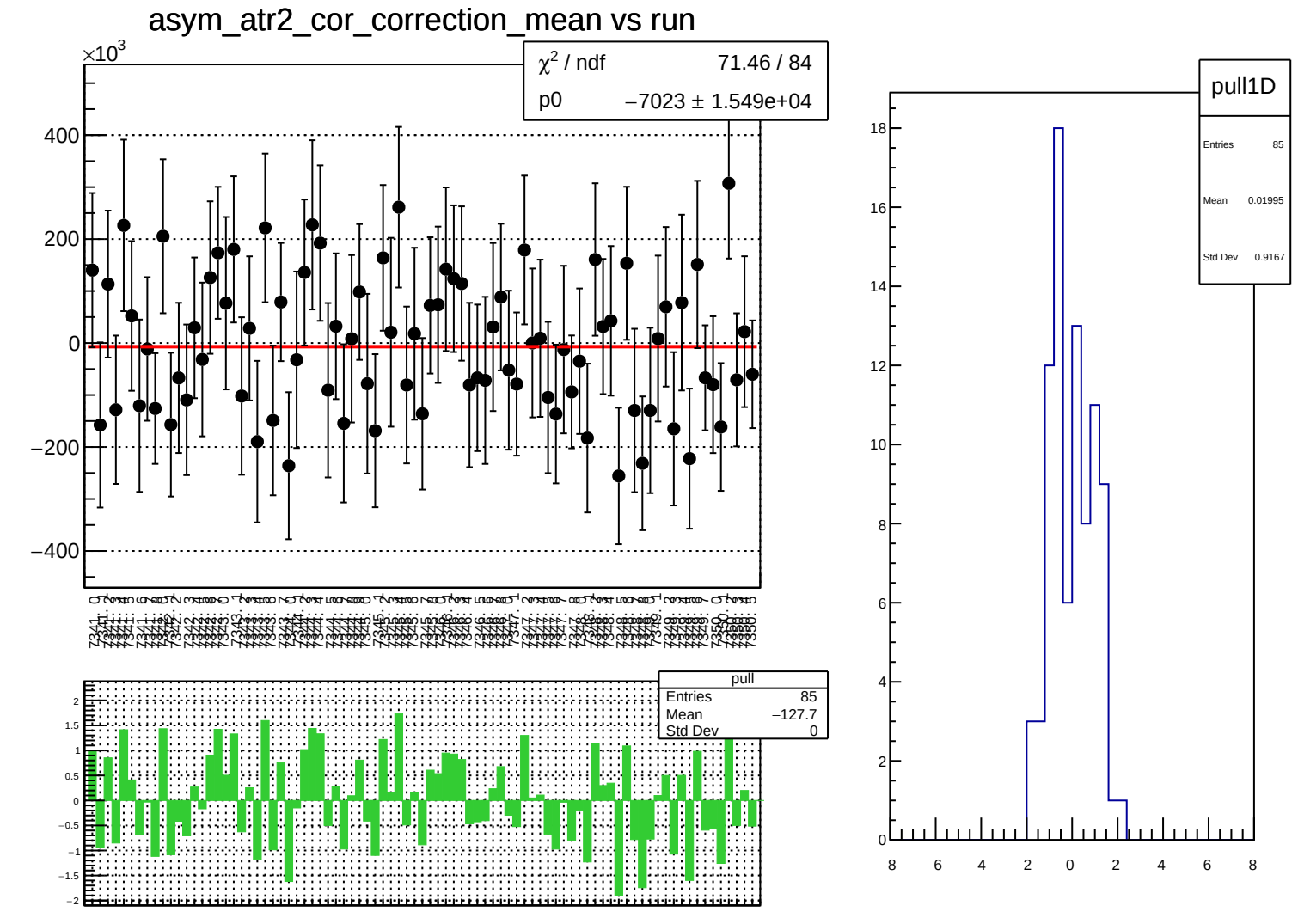

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 71.46 / 84
p0 −7022 ± 1.549e+04
400
200
0
−200
−400
pull
Entries 85
Mean −127.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.01995
Std Dev 0.9167
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

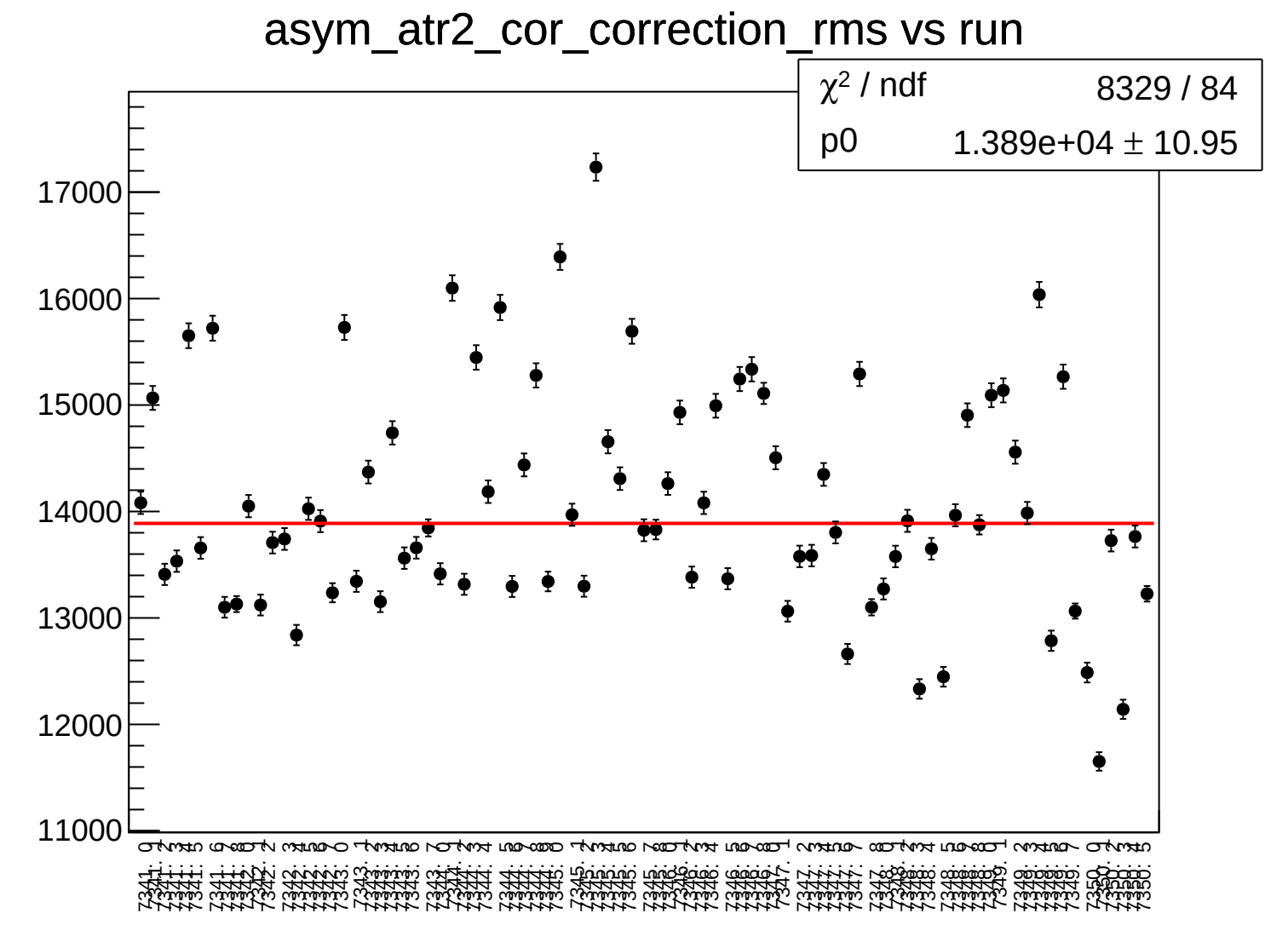

asym_atr2_reg_correction_rms vs run
χ² / ndf 8328 / 84
p0 1.389e+04 ± 10.95
17000
16000
15000
14000
13000
12000
11000

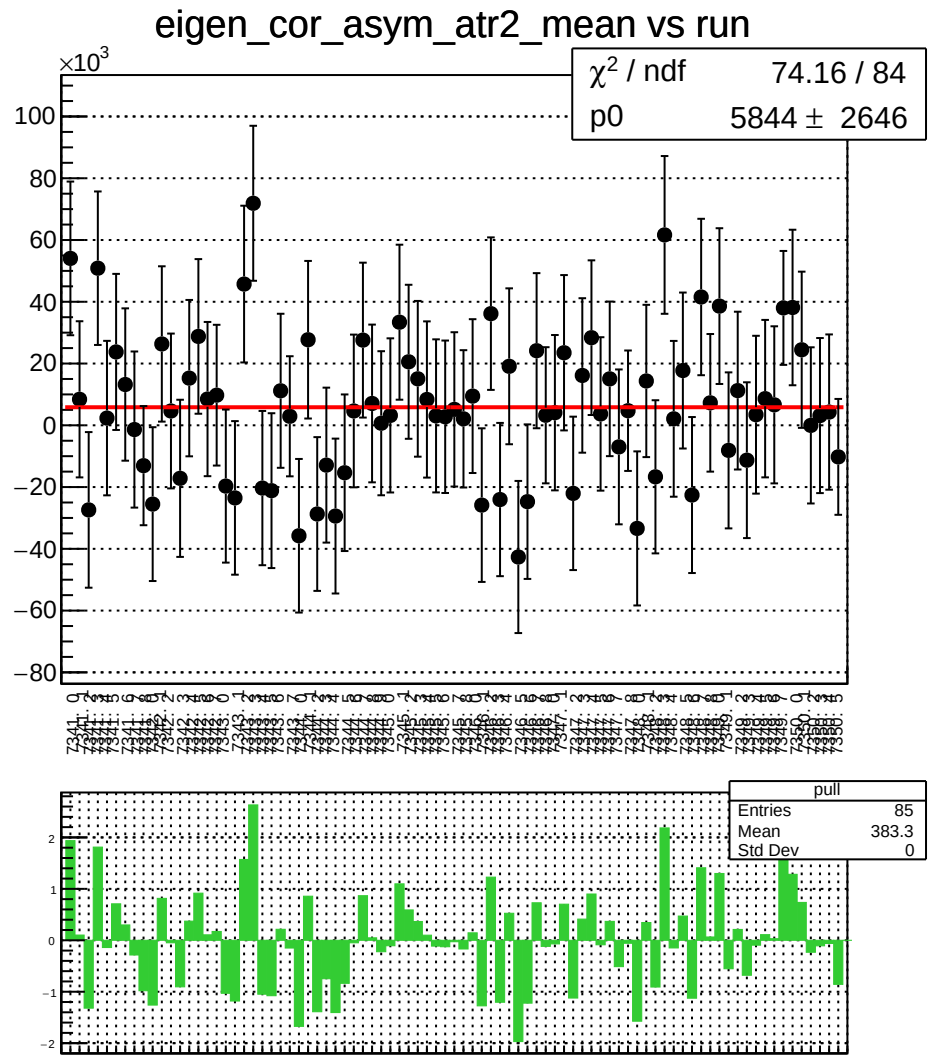

cor_asym_atr2_mean vs run
χ^2 / ndf 74.16 / 84
p0 5844 ± 2646
×10^3
pull
Entries 85
Mean 383.3
Std Dev 0

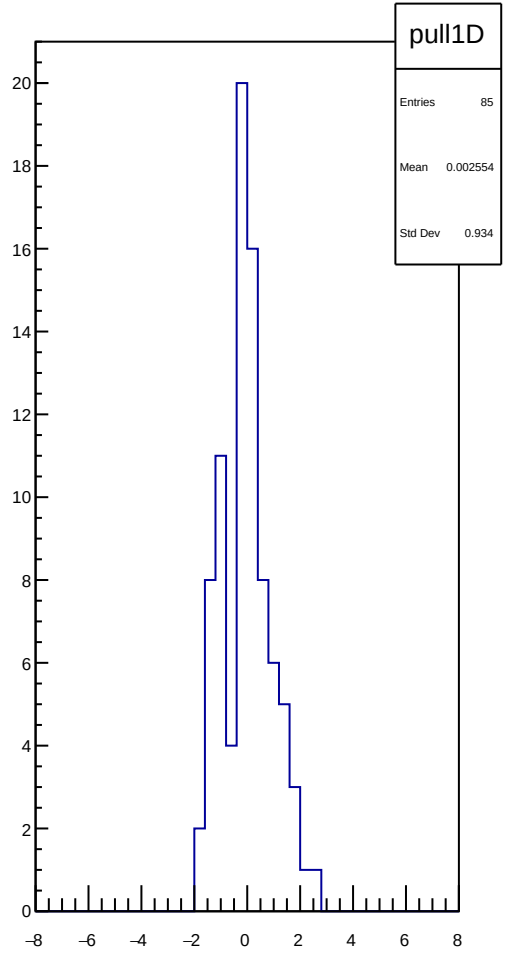

pull1D
Entries 85
Mean 0.002554
Std Dev 0.934

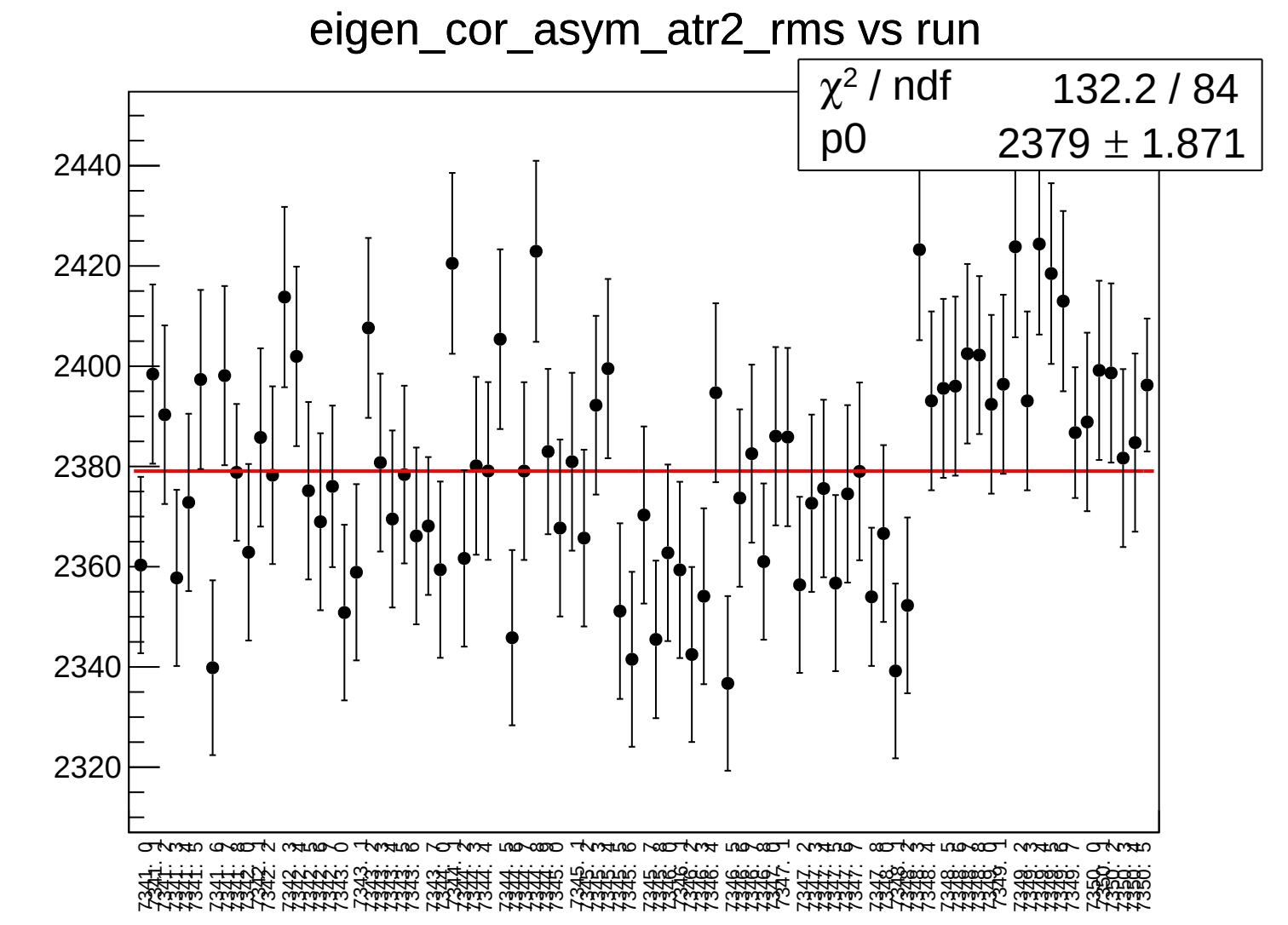

cor_asym_atr2_rms vs run
χ² / ndf 132.2 / 84
p0 2379 ± 1.871
2440
2420
2400
2380
2360
2340
2320

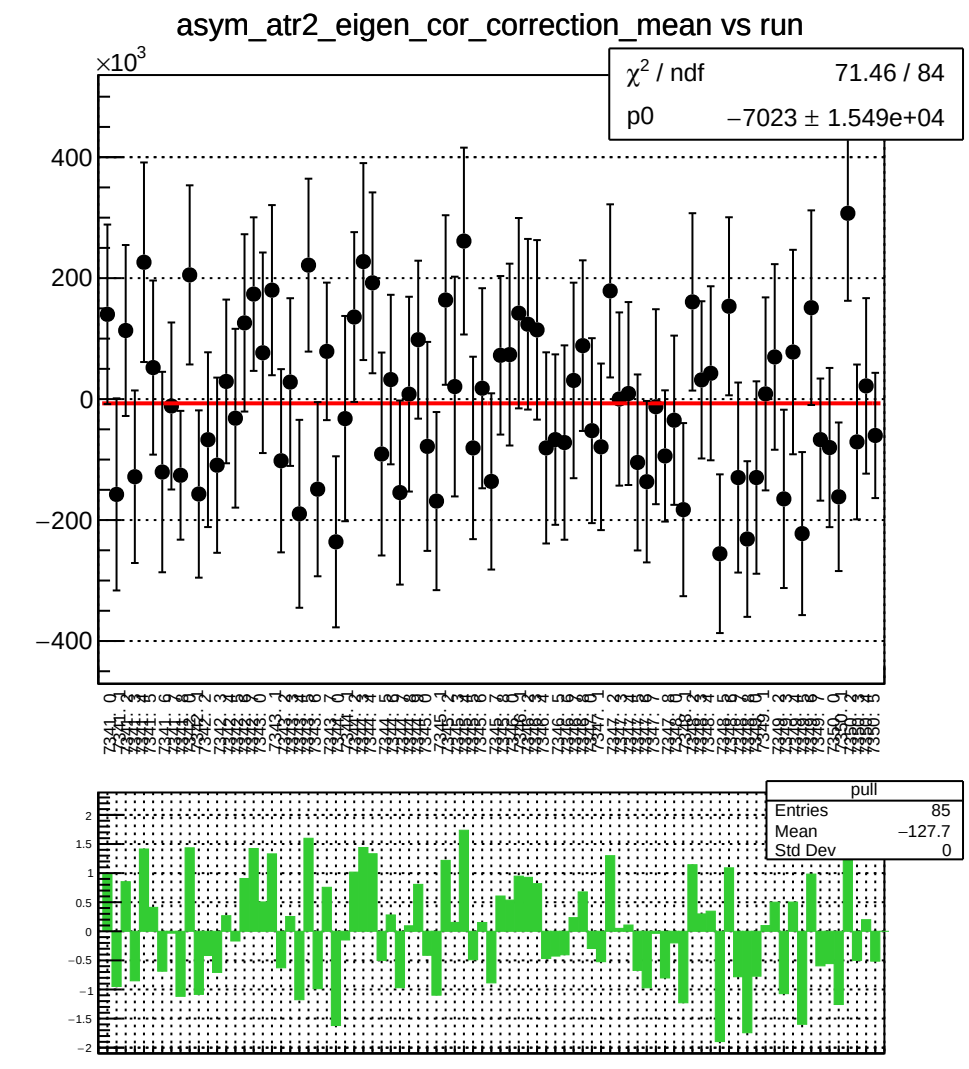

asym_atr2_cor_correction_mean vs run
χ² / ndf 71.46 / 84
p0 −7023 ± 1.549e+04
×10³
400
200
0
−200
−400
pull
Entries 85
Mean −127.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.01995
Std Dev 0.9167
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

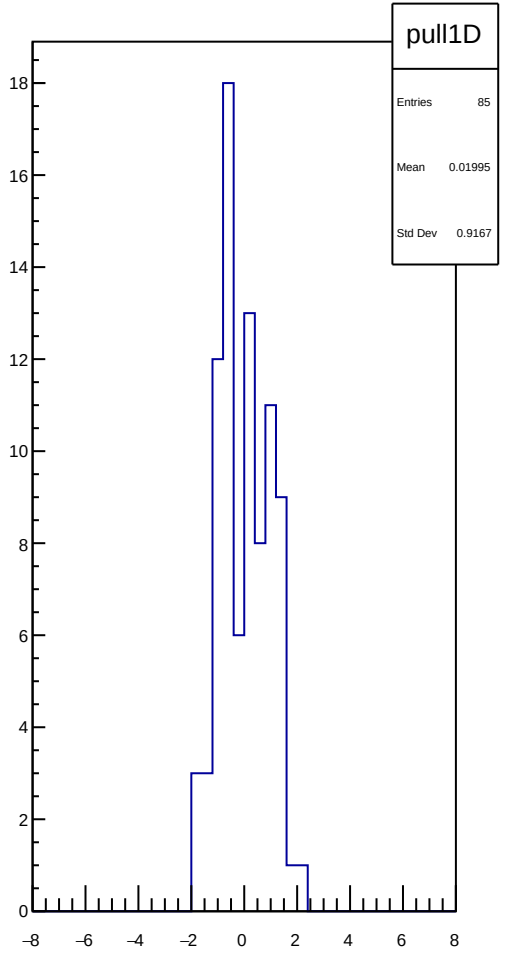

asym_atr2_cor_correction_rms vs run
χ² / ndf 8329 / 84
p0 1.389e+04 ± 10.95
17000
16000
15000
14000
13000
12000
11000

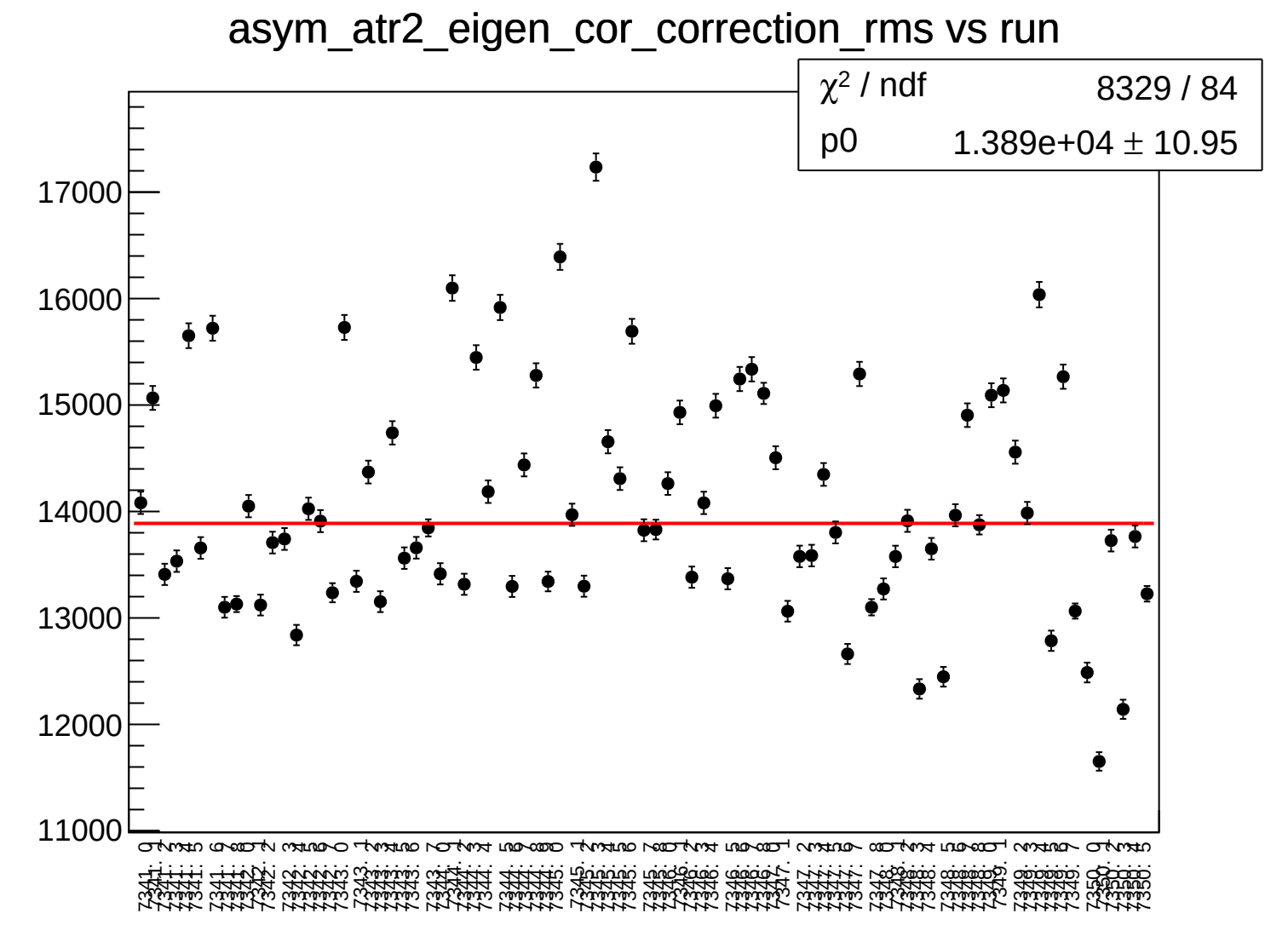

eigen_cor_asym_atr2_mean vs run
χ² / ndf 74.16 / 84
p0 5844 ± 2646
pull
Entries 85
Mean 383.3
Std Dev 0

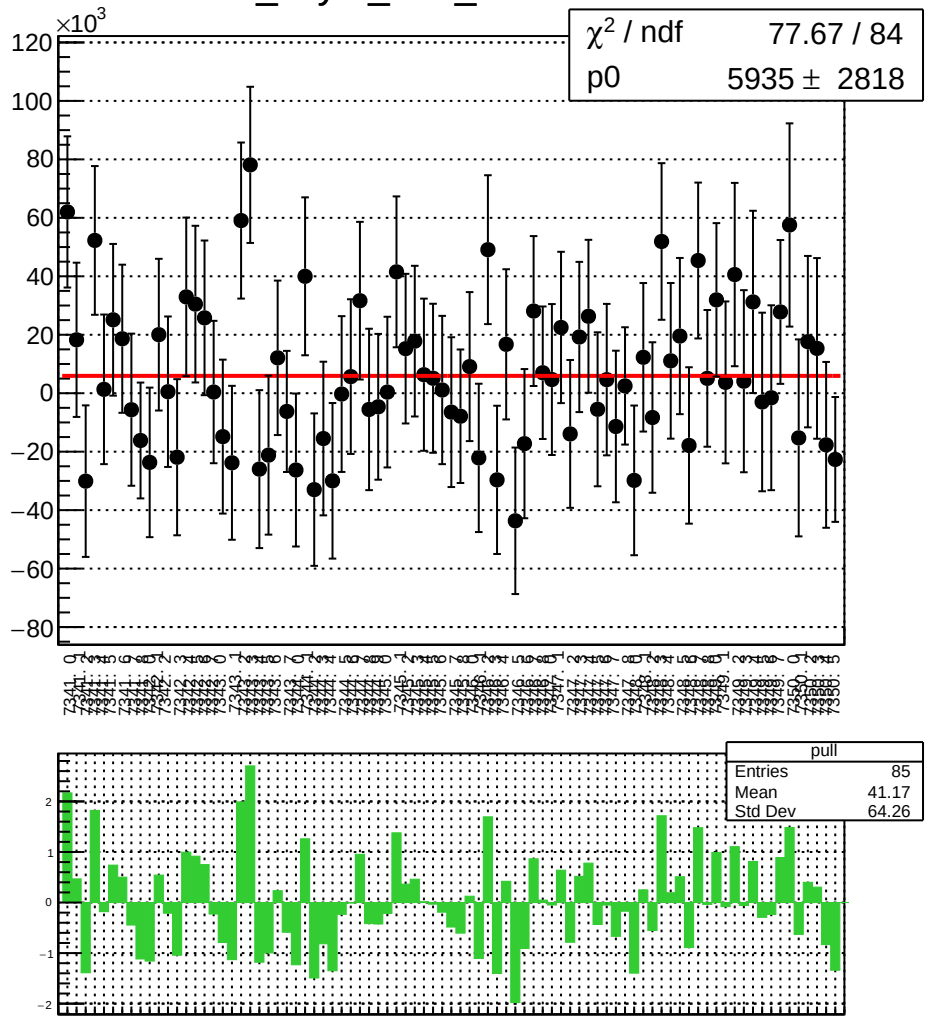

pull1D
Entries 85
Mean 0.002554
Std Dev 0.934

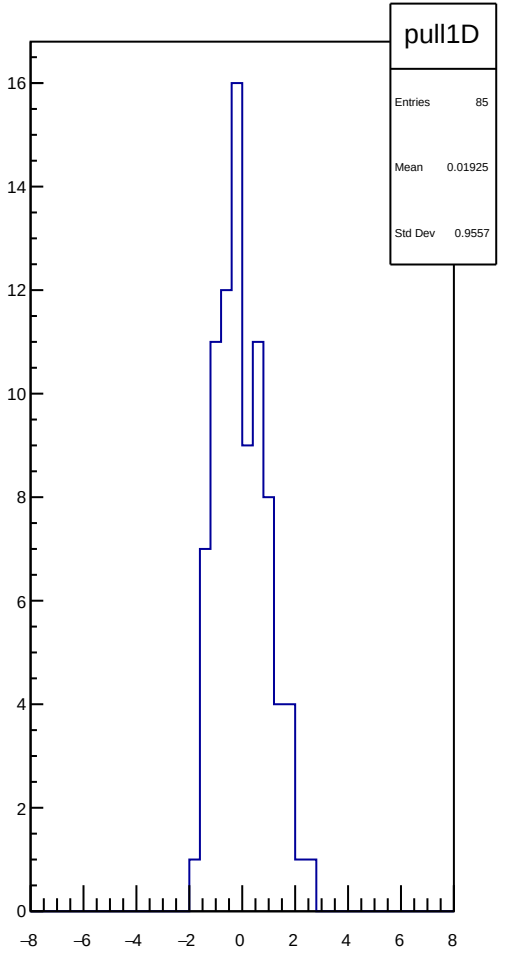

eigen_cor_asym_atr2_rms vs run
χ² / ndf 132.2 / 84
p0 2379 ± 1.871
2440
2420
2400
2380
2360
2340
2320

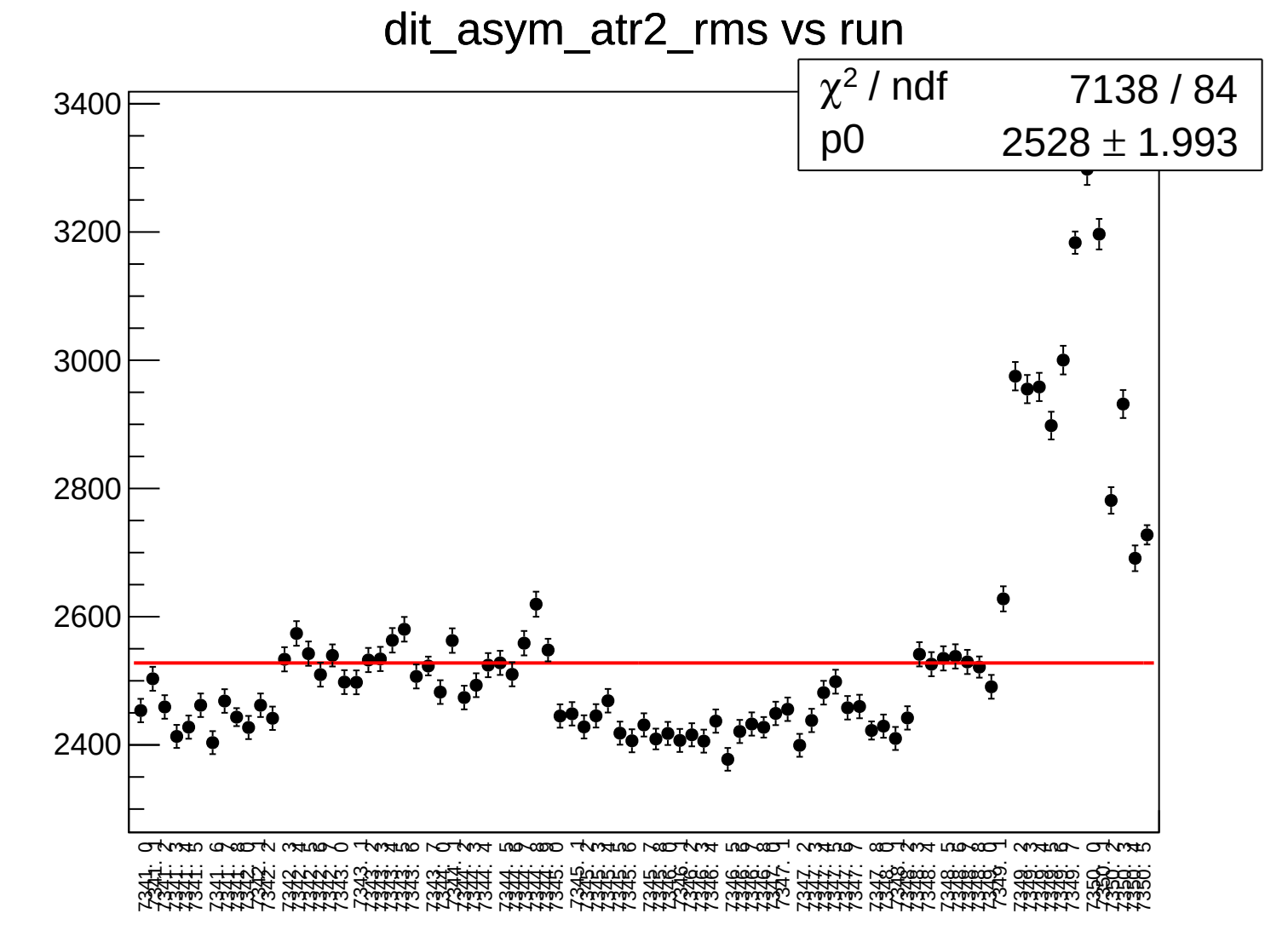

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 71.46 / 84
p0 −7023 ± 1.549e+04
400
200
0
−200
−400
pull
Entries 85
Mean −127.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

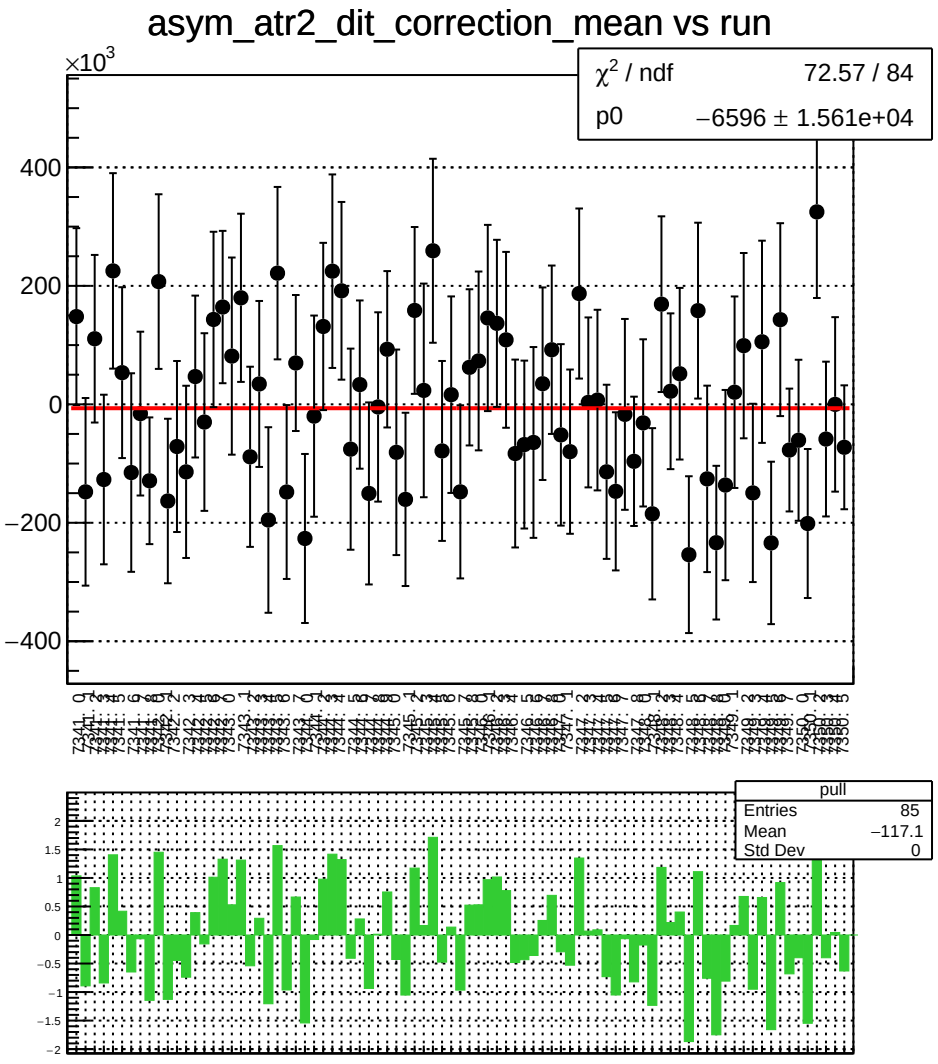

pull1D
Entries 85
Mean 0.01995
Std Dev 0.9167
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

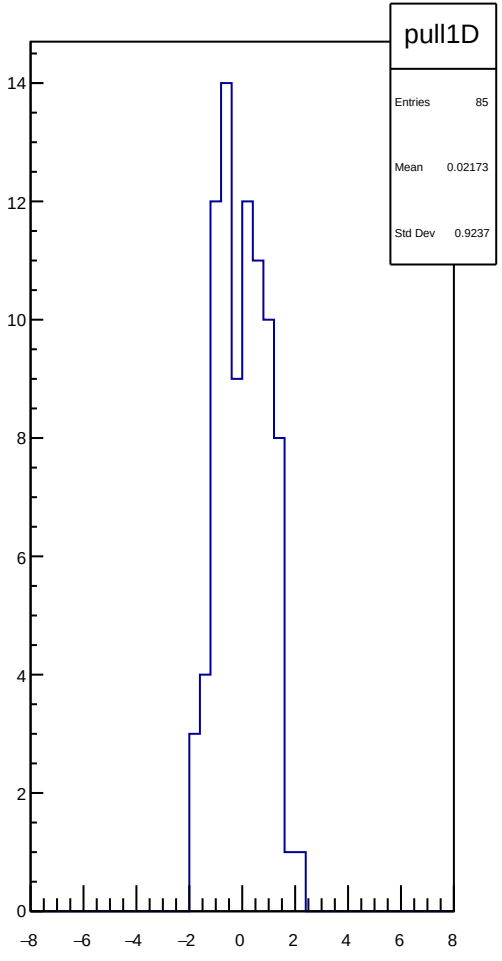

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 8329 / 84
p0 1.389e+04 ± 10.95
17000
16000
15000
14000
13000
12000
11000

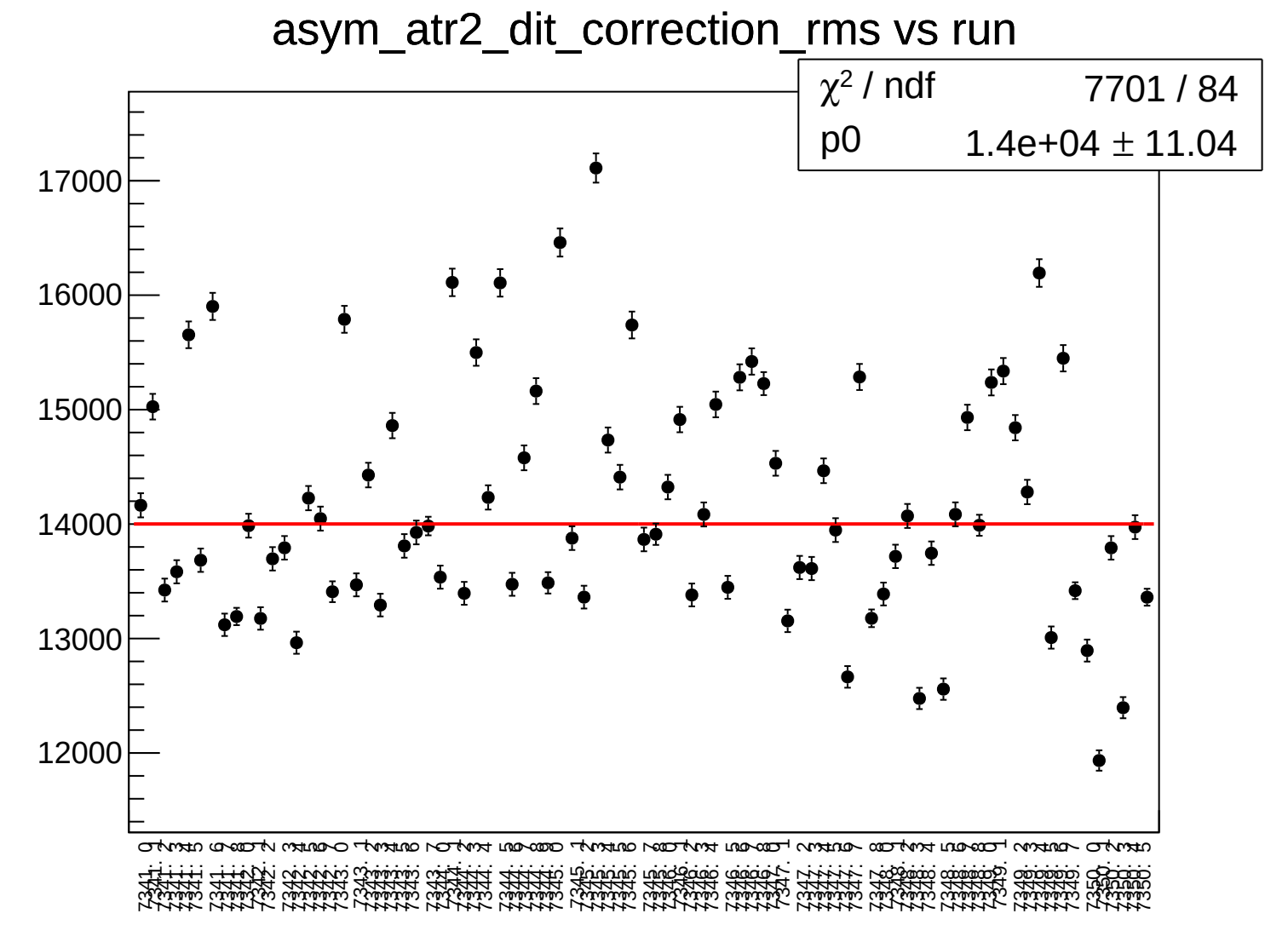

dit_asym_atr2_mean vs run
χ^2 / ndf 77.67 / 84
p0 5935 ± 2818
pull
Entries 85
Mean 41.17
Std Dev 64.26

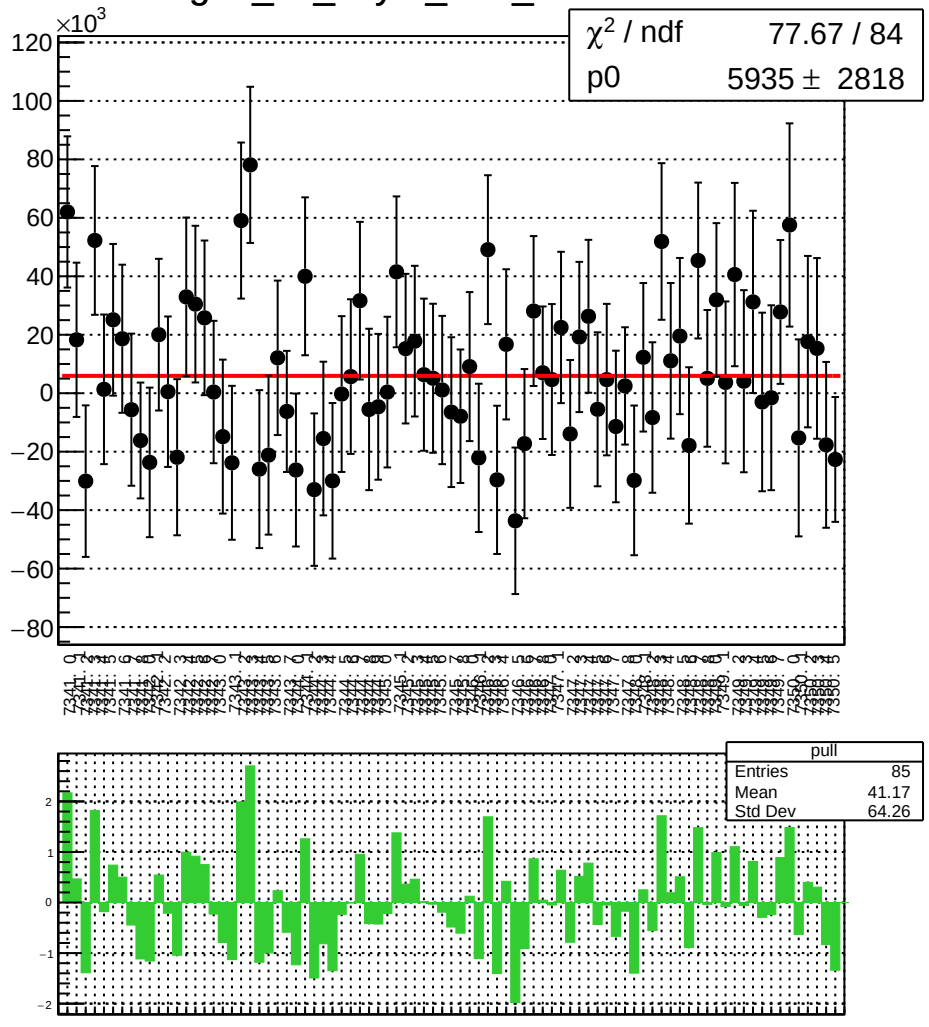

pull1D
Entries 85
Mean 0.01925
Std Dev 0.9557

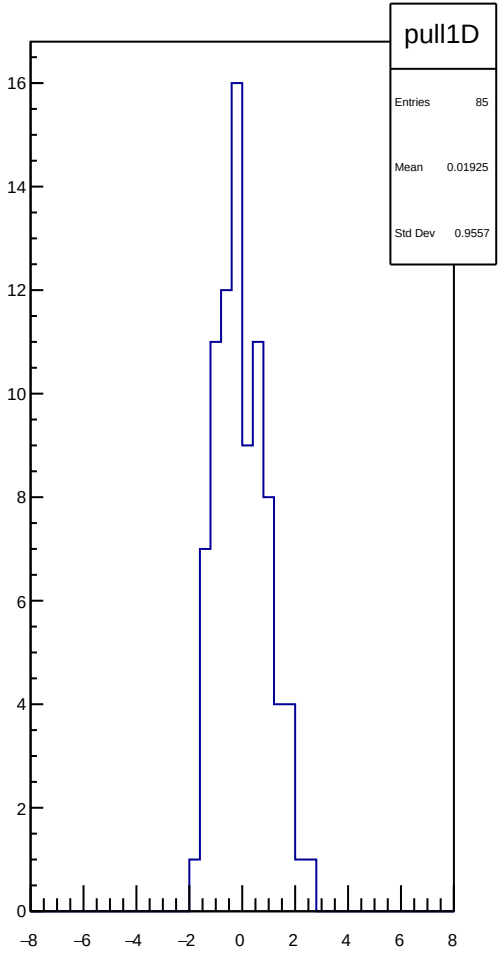

dit_asym_atr2_rms vs run
χ² / ndf 7138 / 84
p0 2528 ± 1.993
3400
3200
3000
2800
2600
2400

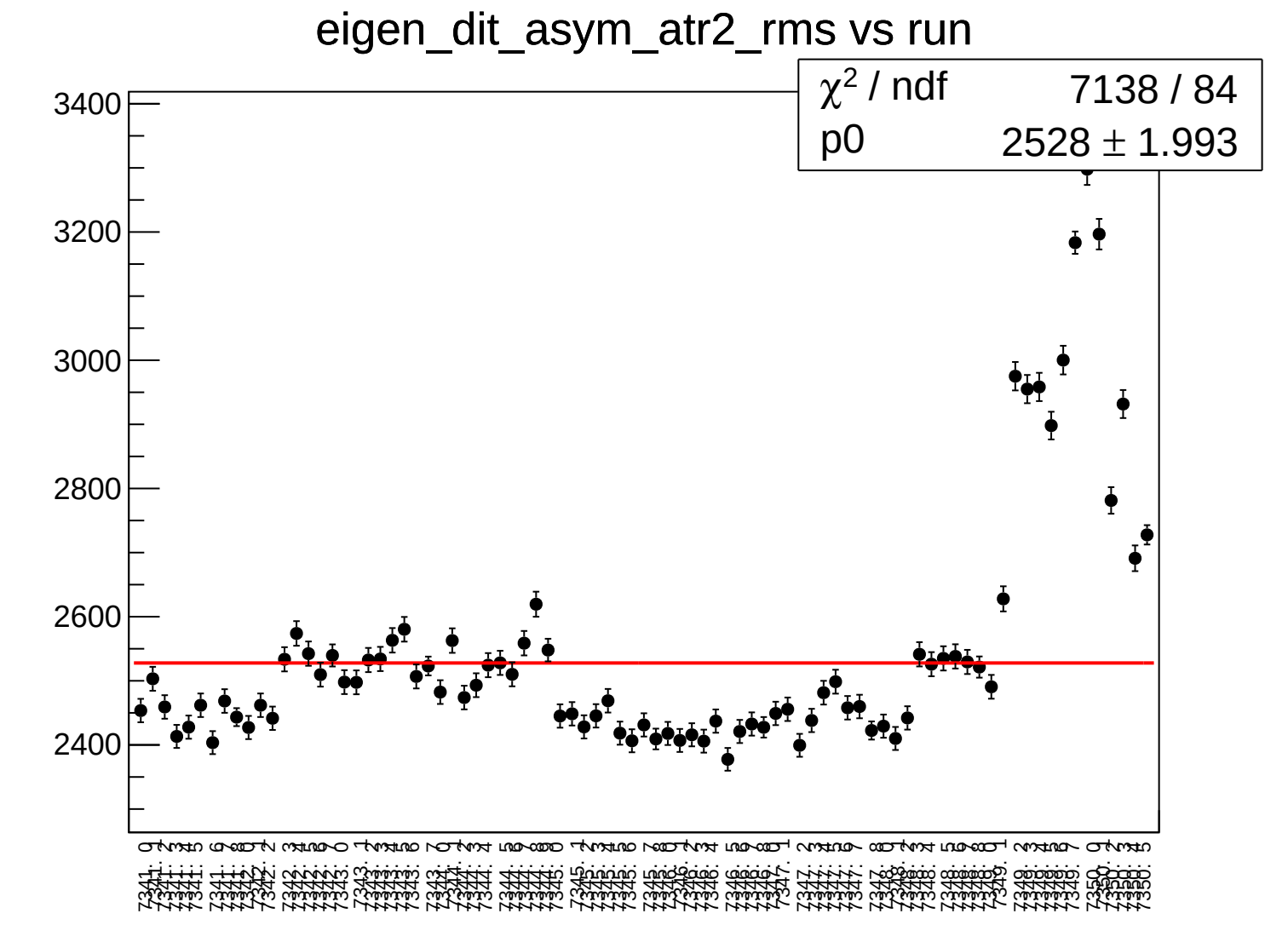

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 72.57 / 84
p0 −6596 ± 1.561e+04
400
200
0
−200
−400
pull
Entries 85
Mean −117.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

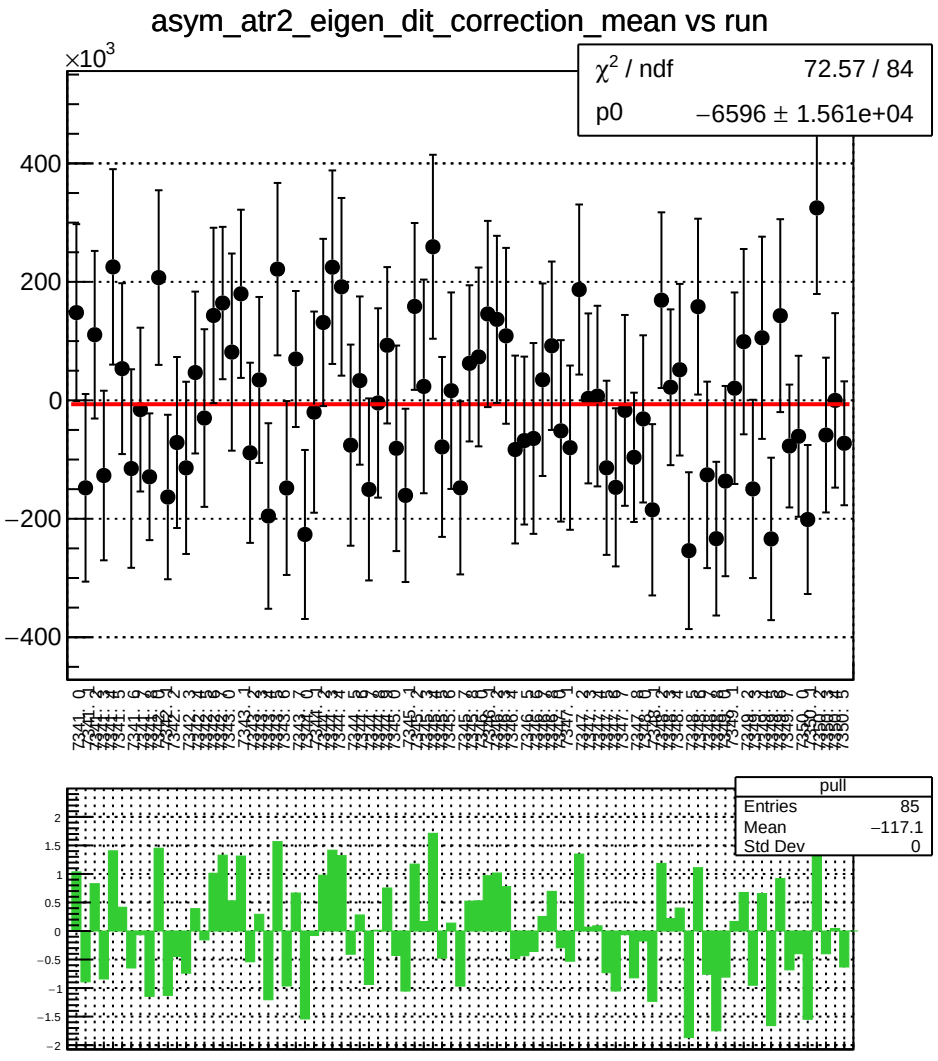

pull1D
Entries 85
Mean 0.02173
Std Dev 0.9237
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

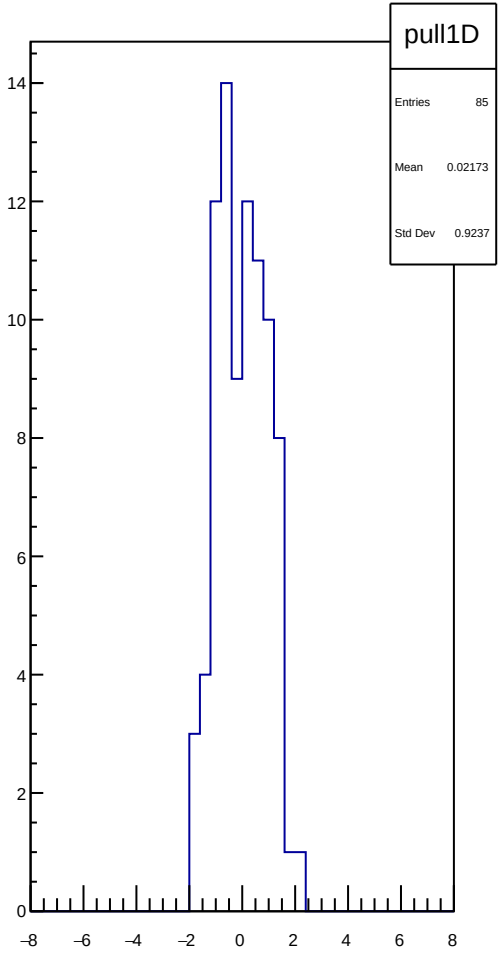

asym_atr2_dit_correction_rms vs run
χ² / ndf 7701 / 84
p0 1.4e+04 ± 11.04
17000
16000
15000
14000
13000
12000

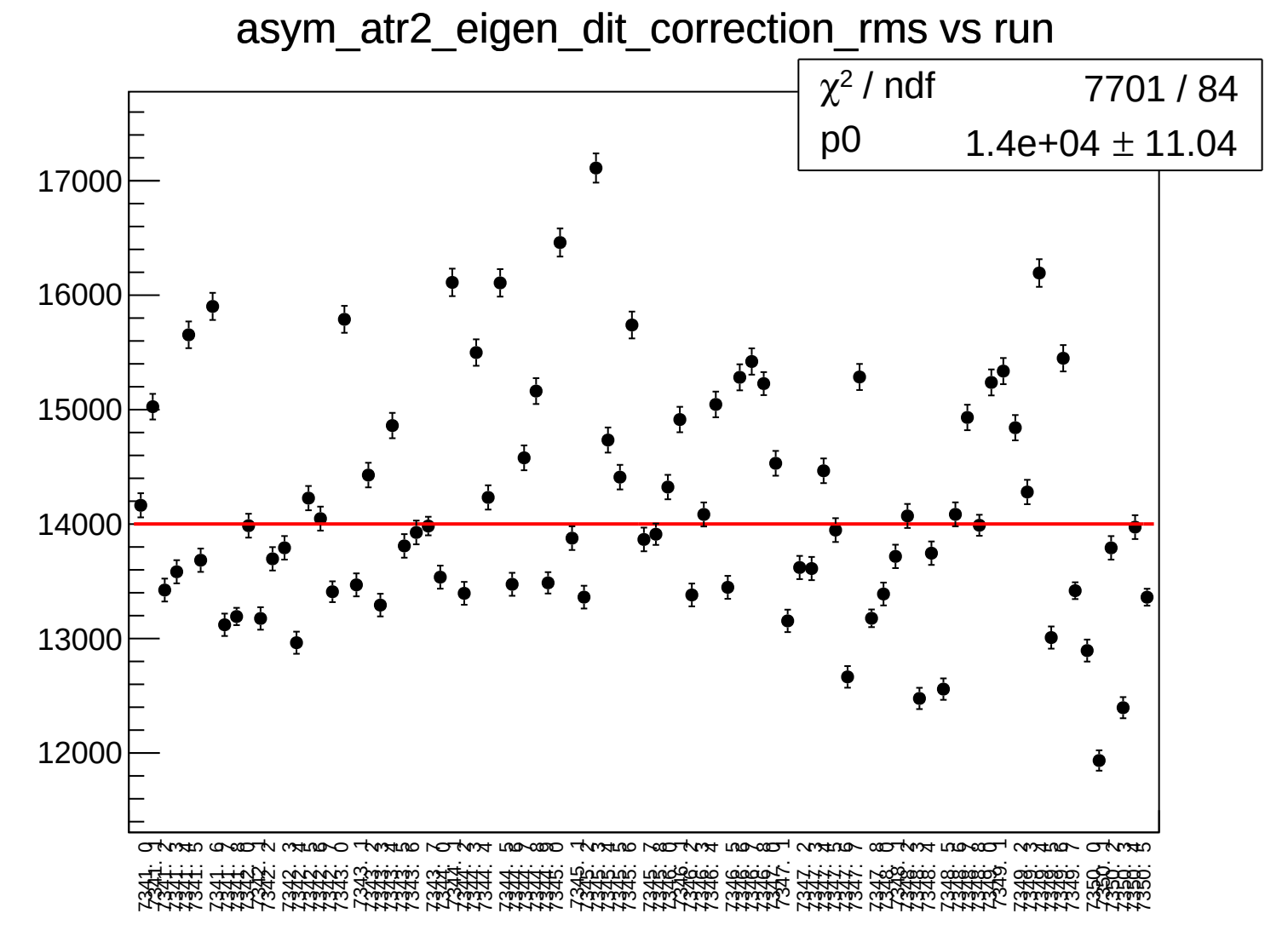

eigen_dit_asym_atr2_mean vs run
χ² / ndf 77.67 / 84
p0 5935 ± 2818
×10³
pull
Entries 85
Mean 41.17
Std Dev 64.26

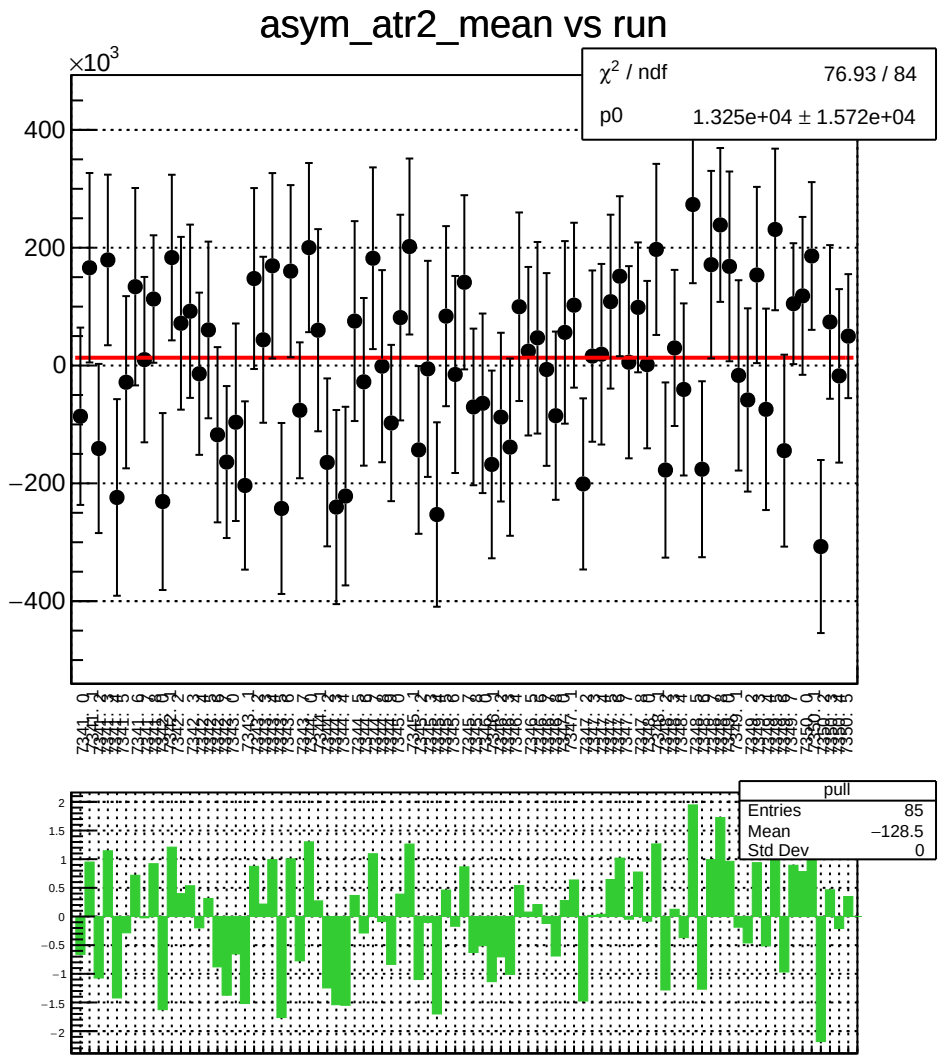

pull1D
Entries 85
Mean 0.01925
Std Dev 0.9557

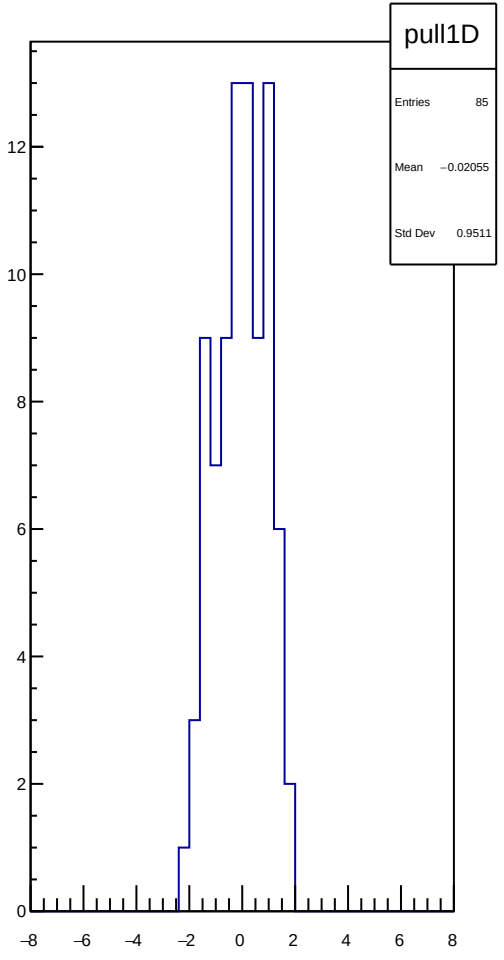

eigen_dit_asym_atr2_rms vs run
χ² / ndf 7138 / 84
p0 2528 ± 1.993
3400
3200
3000
2800
2600
2400

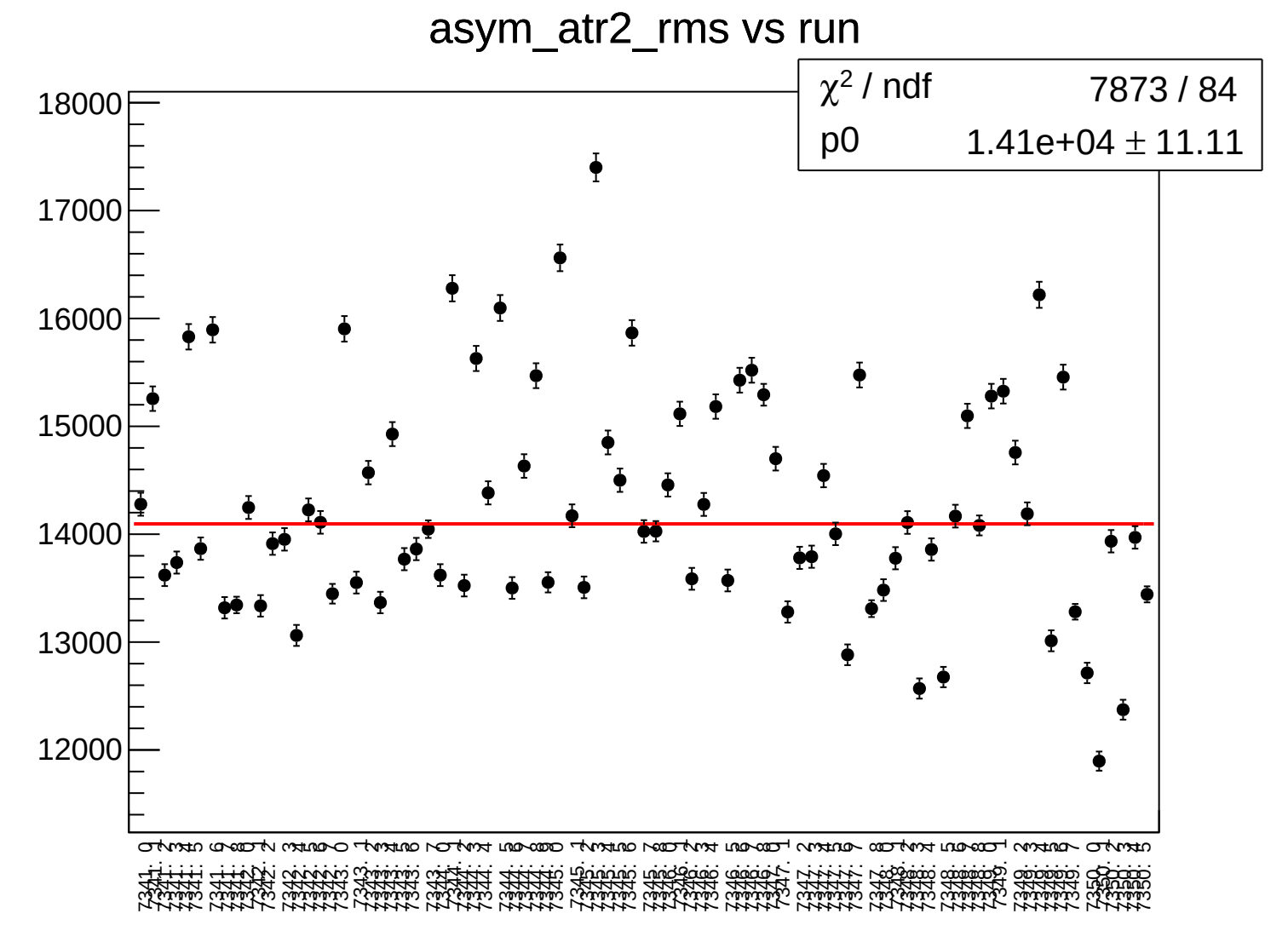

asym_atr2_eigen_dit_correction_mean vs run
χ² / ndf 72.57 / 84
p0 −6596 ± 1.561e+04
×10³
400
200
0
−200
−400
pull
Entries 85
Mean −117.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

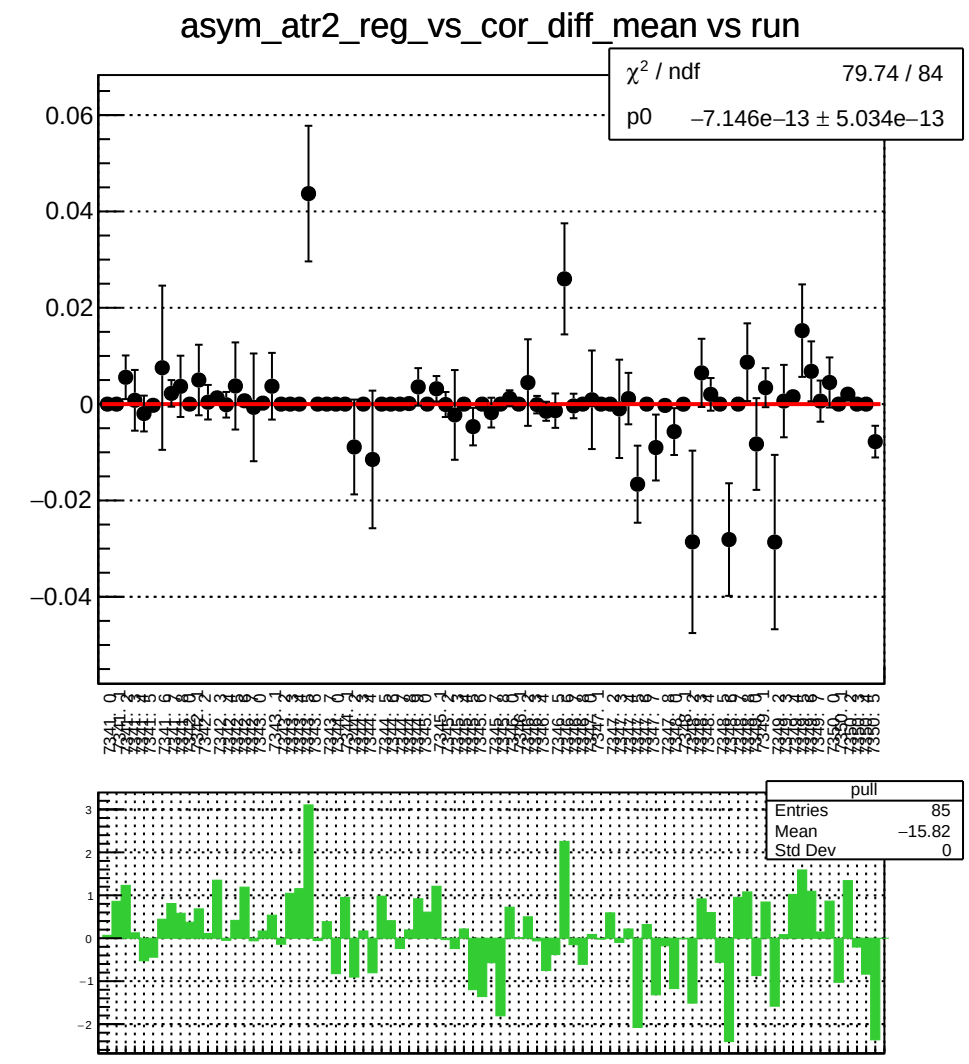

pull1D
Entries 85
Mean 0.02173
Std Dev 0.9237
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

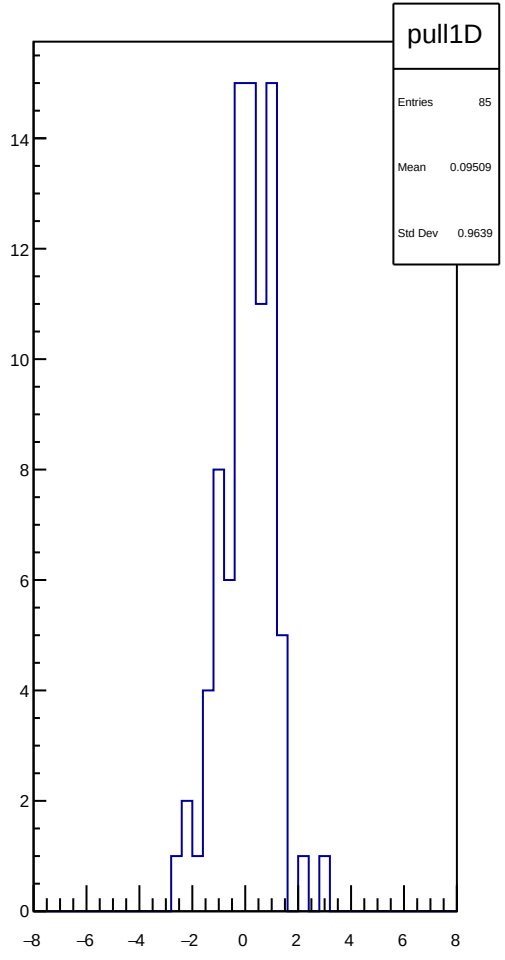

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 7701 / 84
p0 1.4e+04 ± 11.04
17000
16000
15000
14000
13000
12000

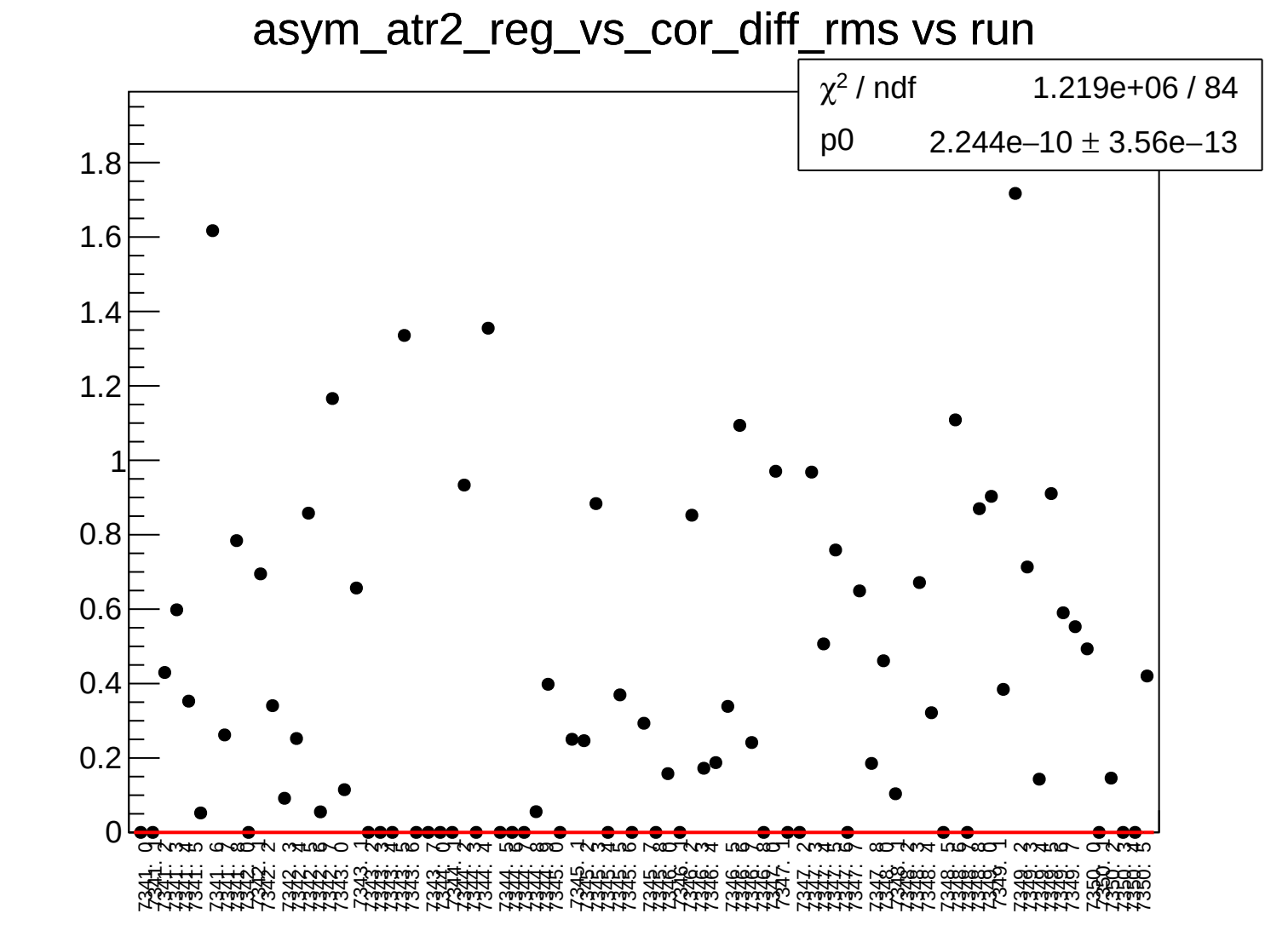

asym_atr2_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 76.93 / 84
p0 1.325e+04 ± 1.572e+04
pull
Entries 85
Mean −128.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

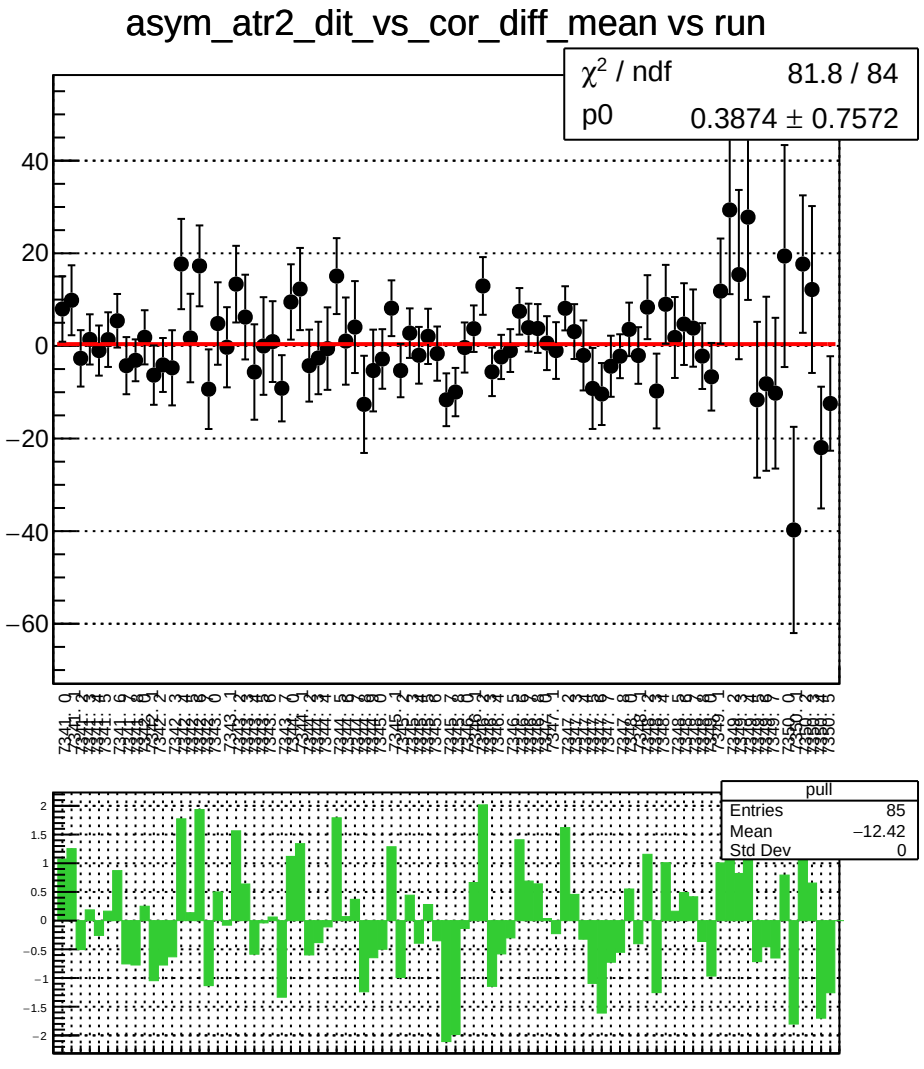

pull1D
Entries 85
Mean −0.02055
Std Dev 0.9511
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

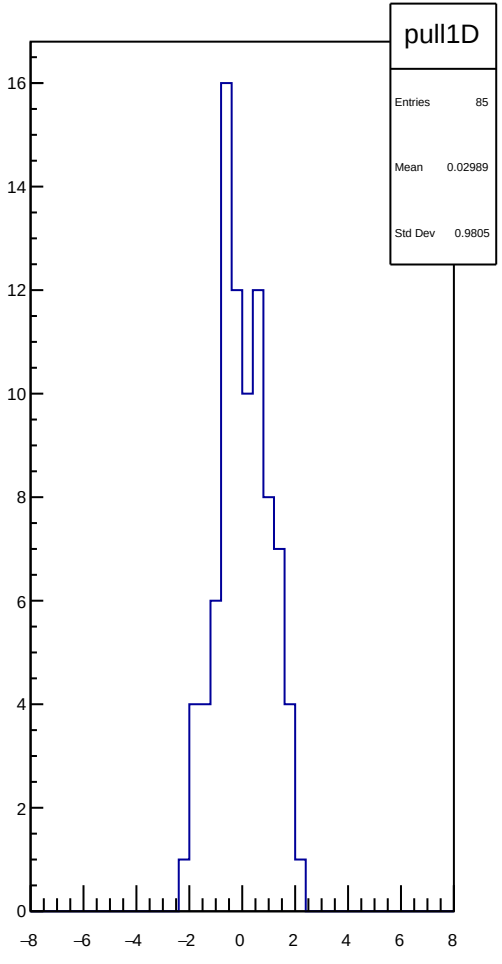

asym_atr2_rms vs run
χ² / ndf 7873 / 84
p0 1.41e+04 ± 11.11
18000
17000
16000
15000
14000
13000
12000

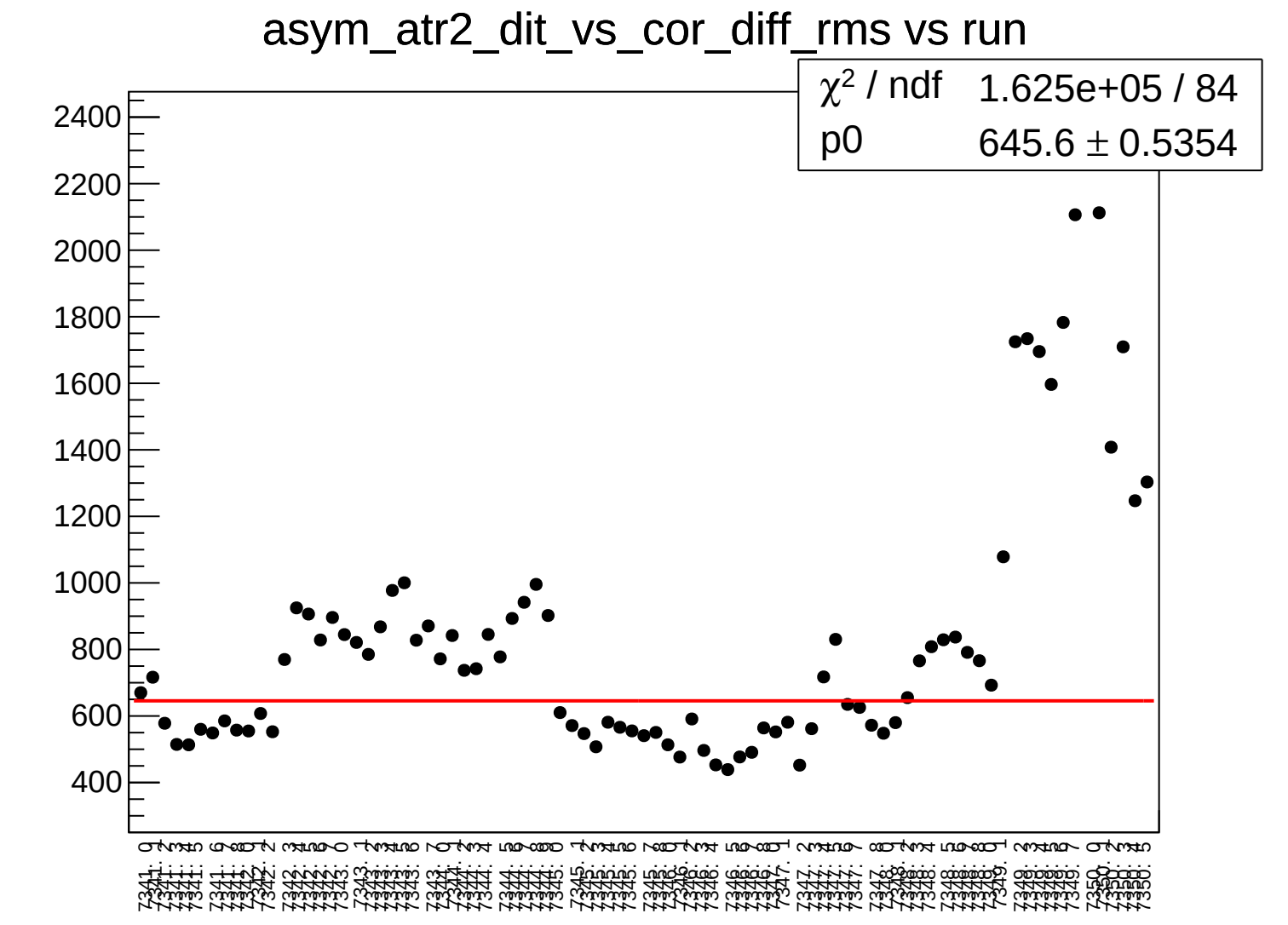

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 79.74 / 84
p0 −7.146e−13 ± 5.034e−13
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 85
Mean −15.82
Std Dev 0
3
2
1
0
−1
−2

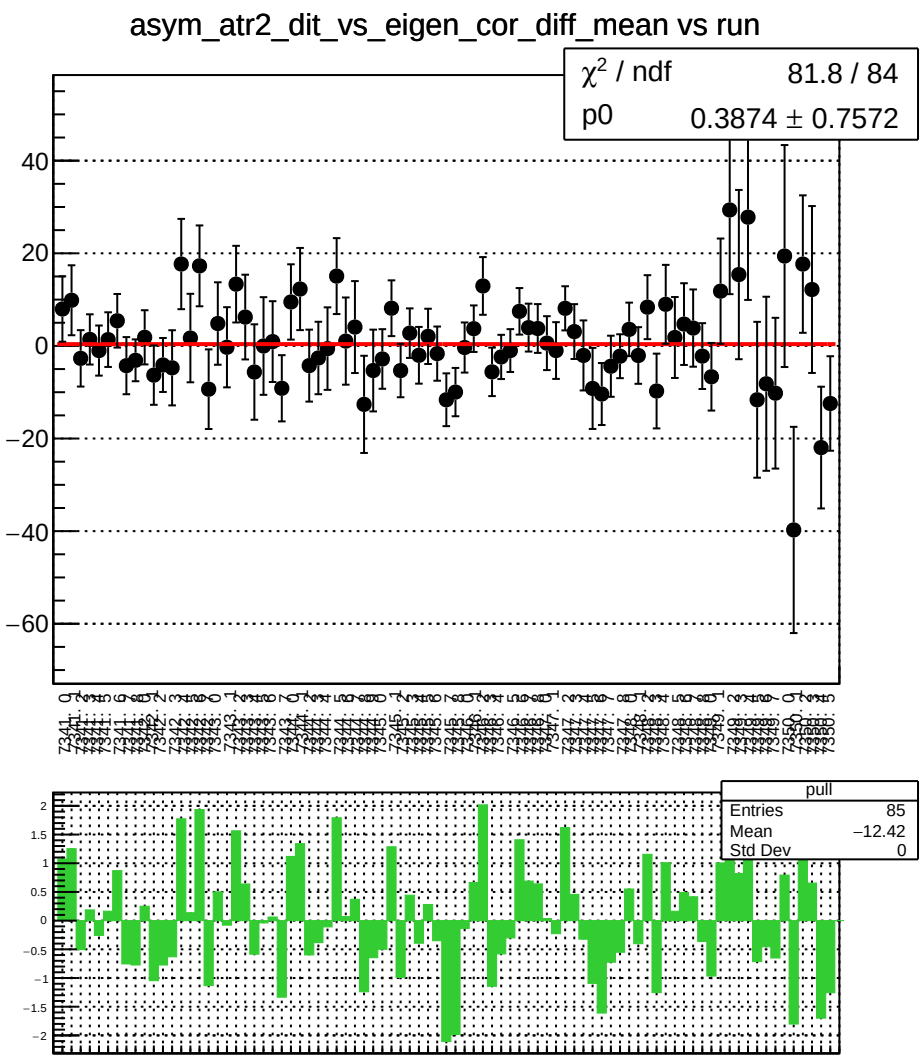

pull1D
Entries 85
Mean 0.09509
Std Dev 0.9639
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

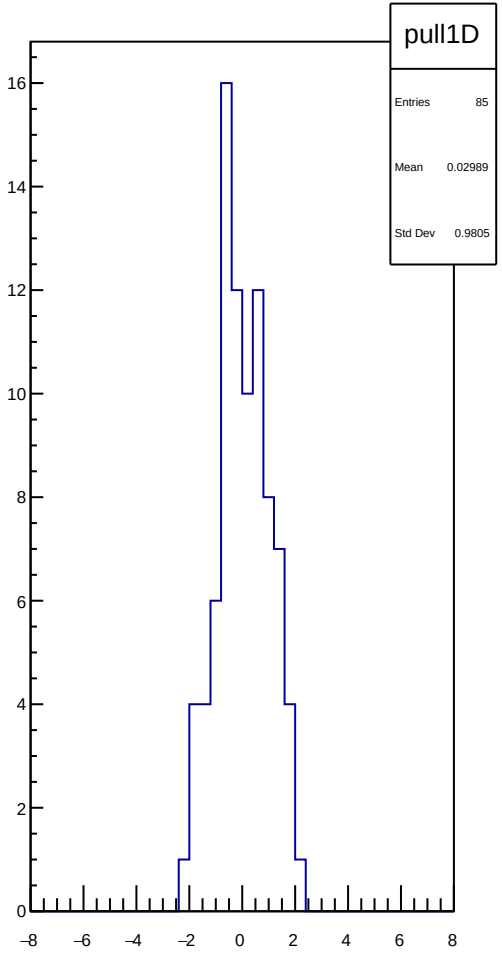

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.219e+06 / 84
p0 2.244e−10 ± 3.56e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

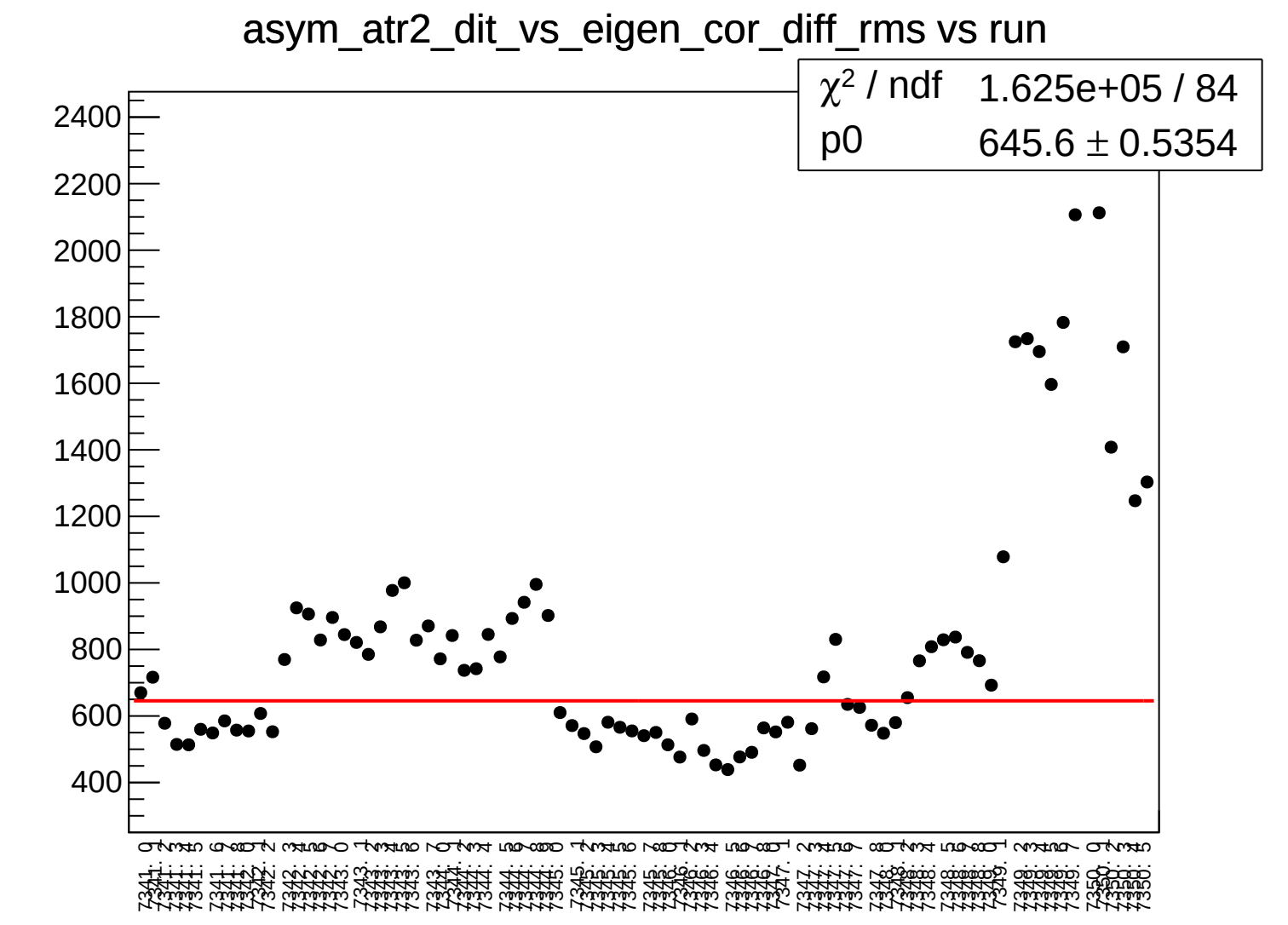

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 81.8 / 84
p0 0.3874 ± 0.7572
pull
Entries 85
Mean −12.42
Std Dev 0

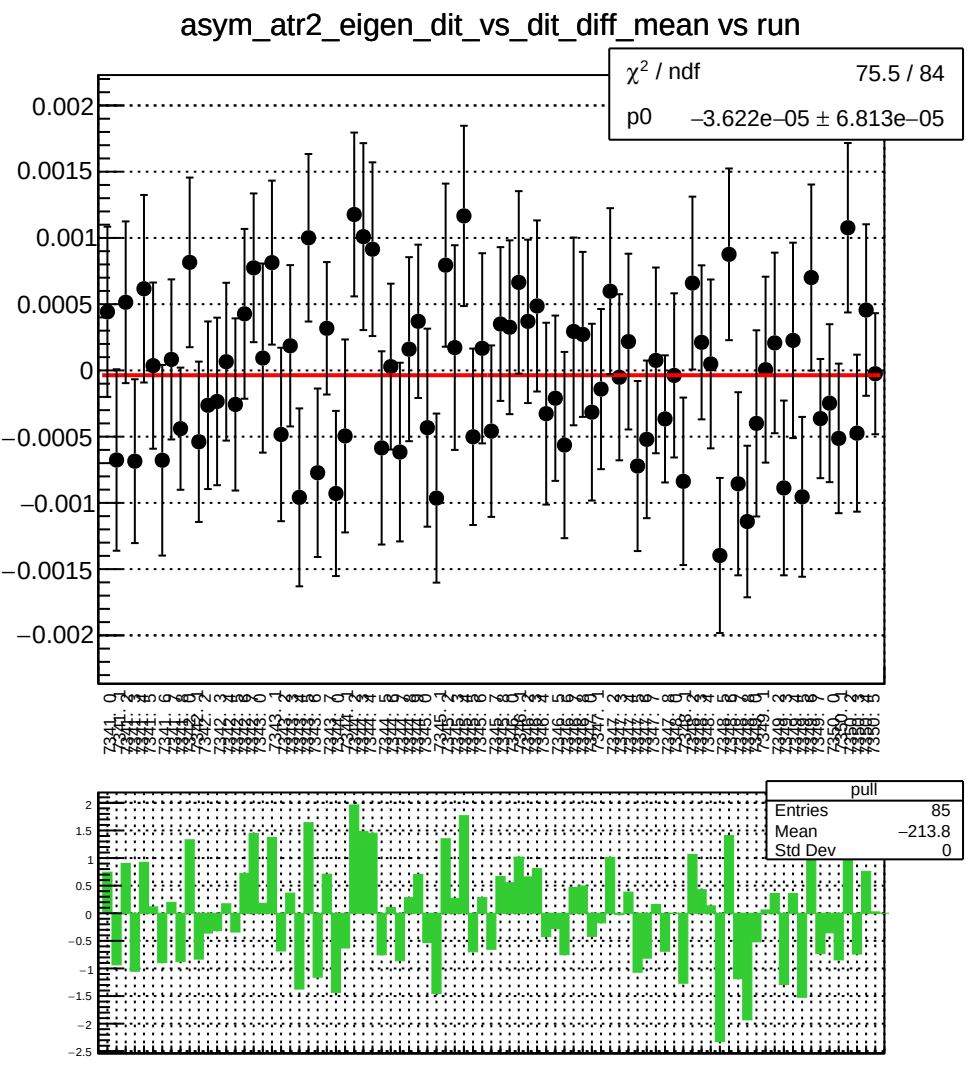

pull1D
Entries 85
Mean 0.02989
Std Dev 0.9805

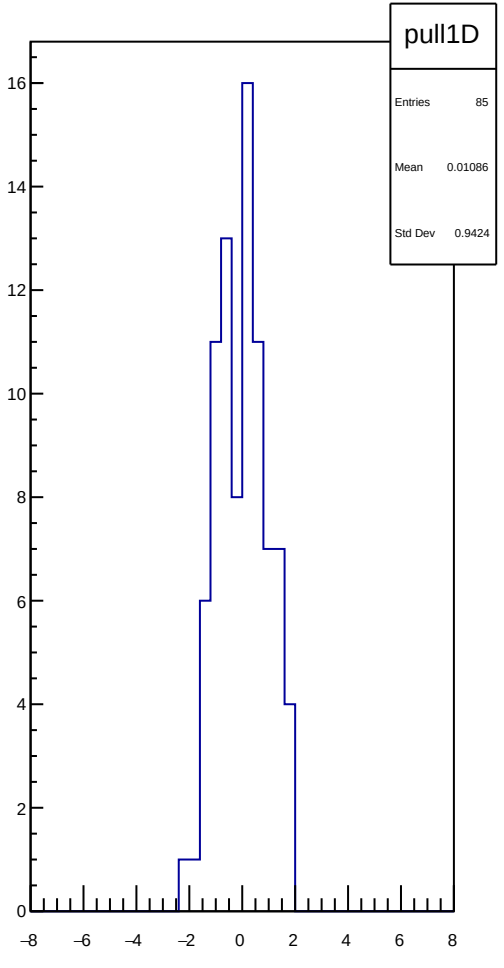

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 84
p0 645.6 ± 0.5354
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400

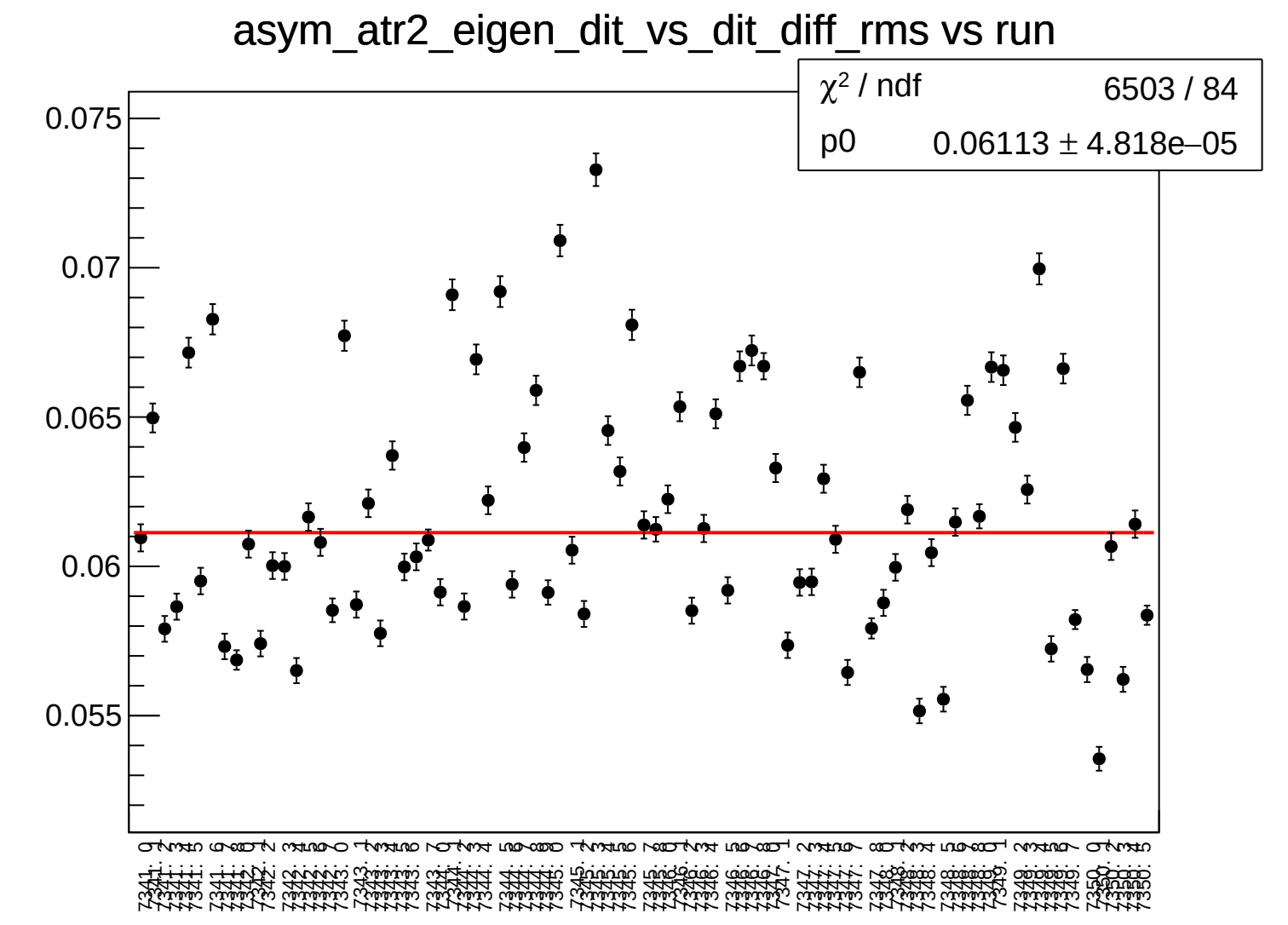

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.8 / 84
p0 0.3874 ± 0.7572
pull
Entries 85
Mean −12.42
Std Dev 0

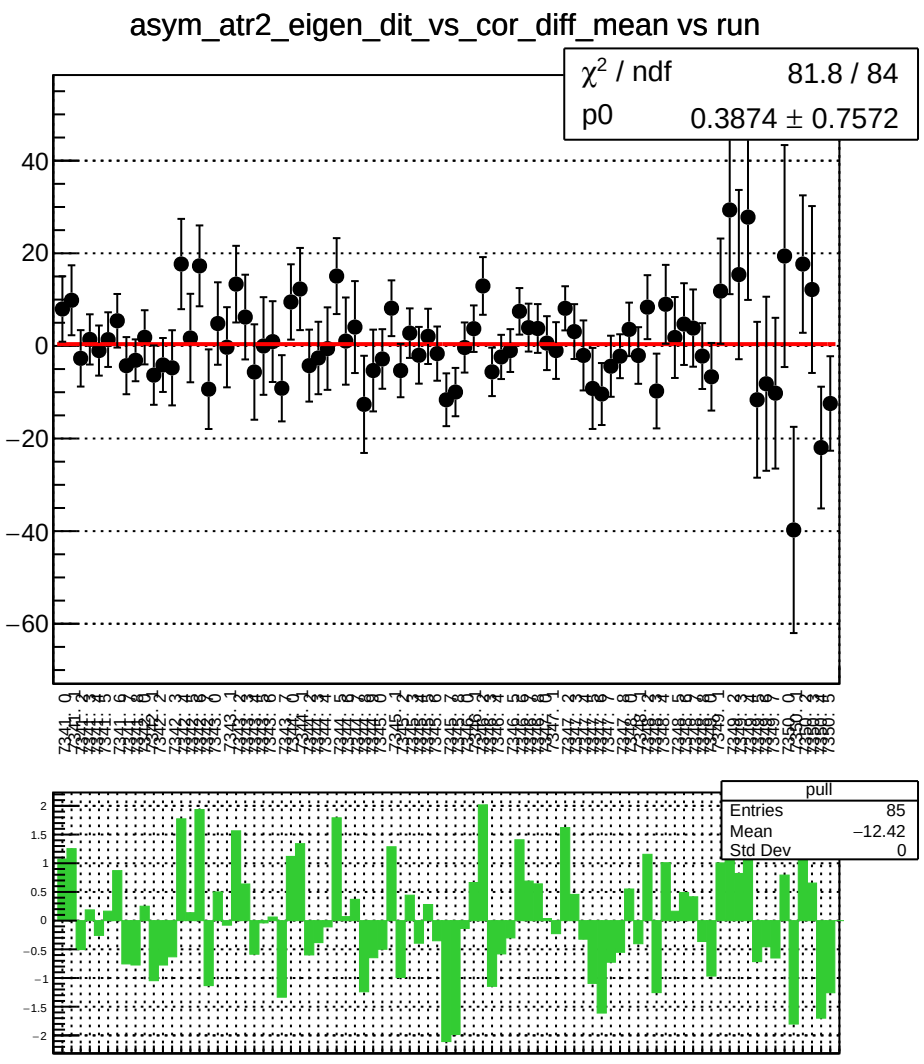

pull1D
Entries 85
Mean 0.02989
Std Dev 0.9805

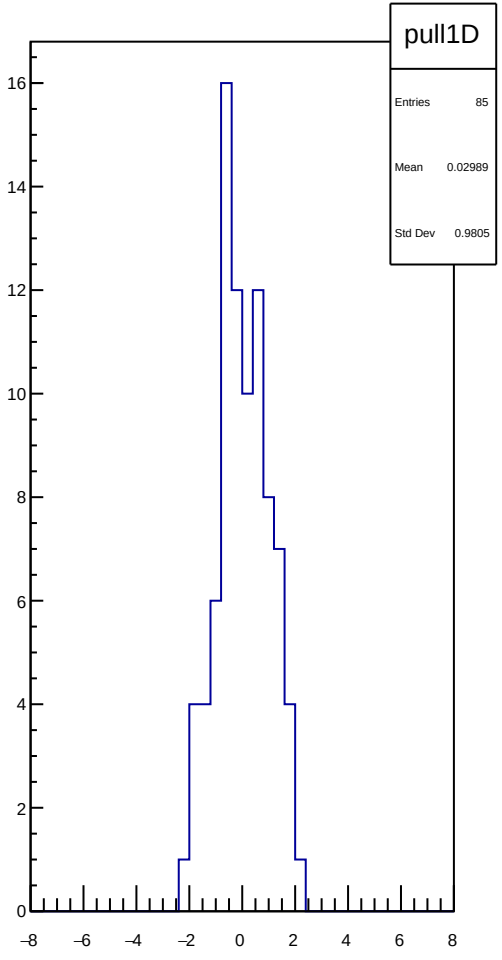

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 84
p0 645.6 ± 0.5354
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400

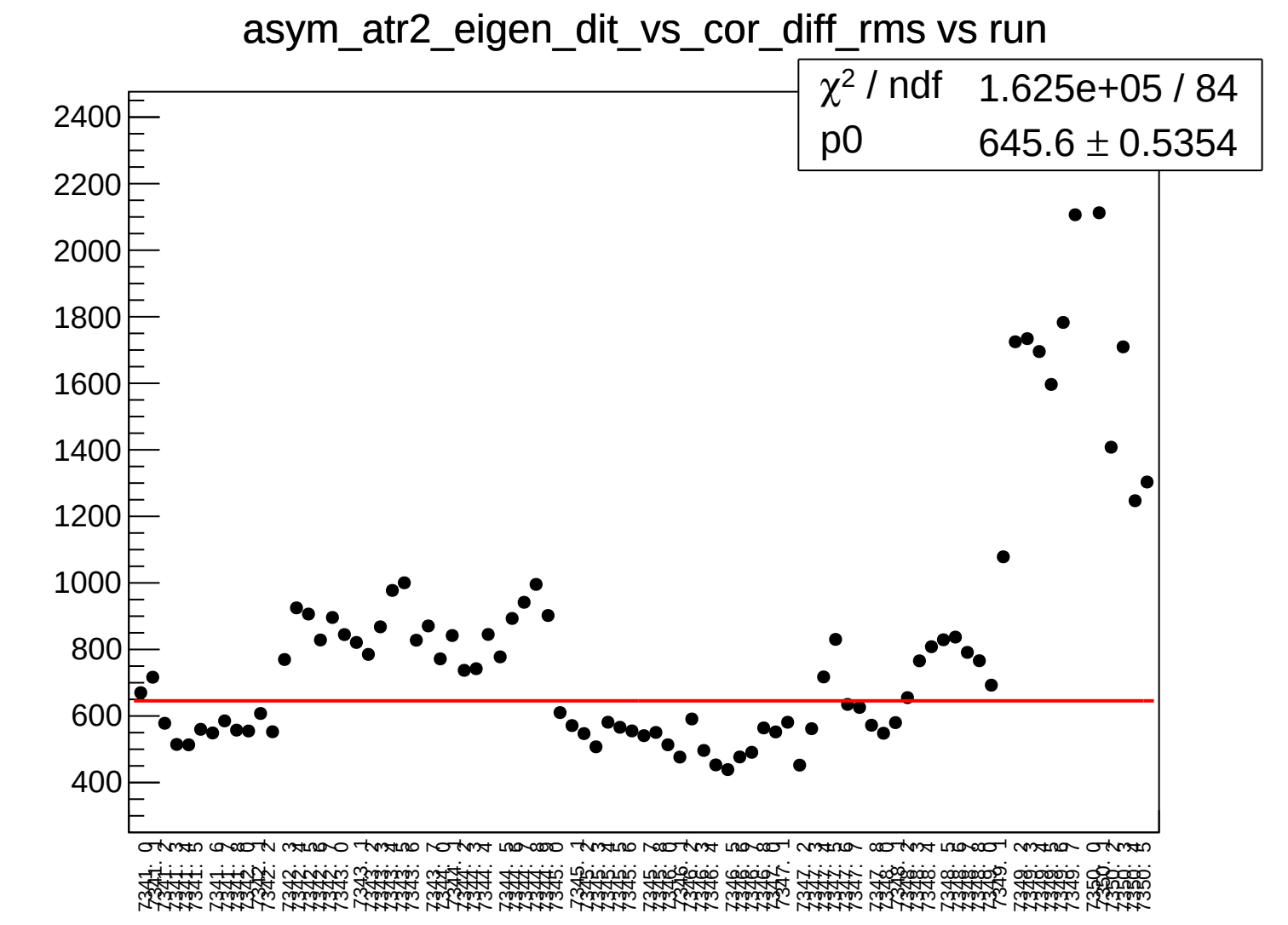

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.5 / 84
p0 −3.622e−05 ± 6.813e−05
pull
Entries 85
Mean −213.8
Std Dev 0

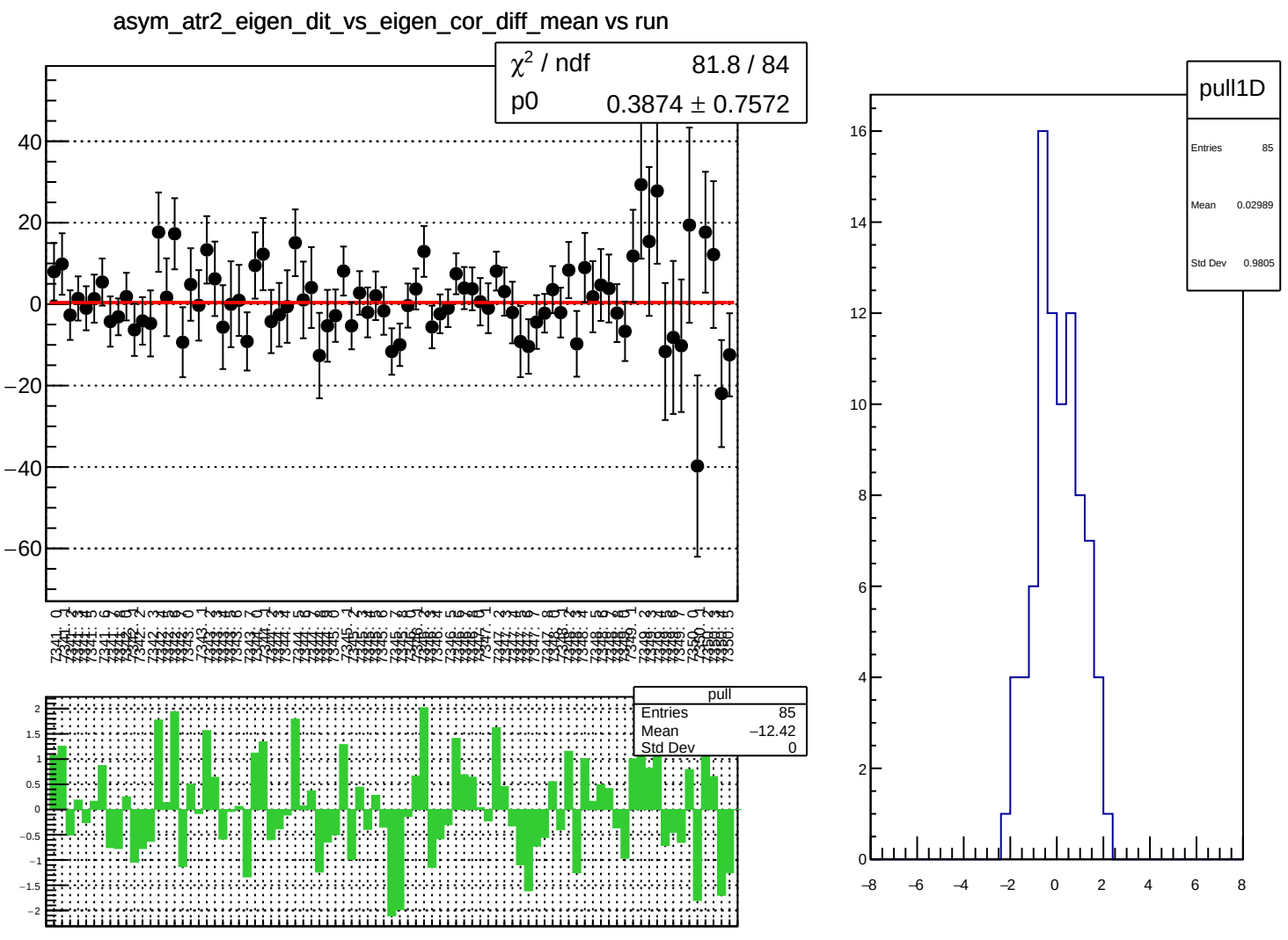

pull1D
Entries 85
Mean 0.01086
Std Dev 0.9424

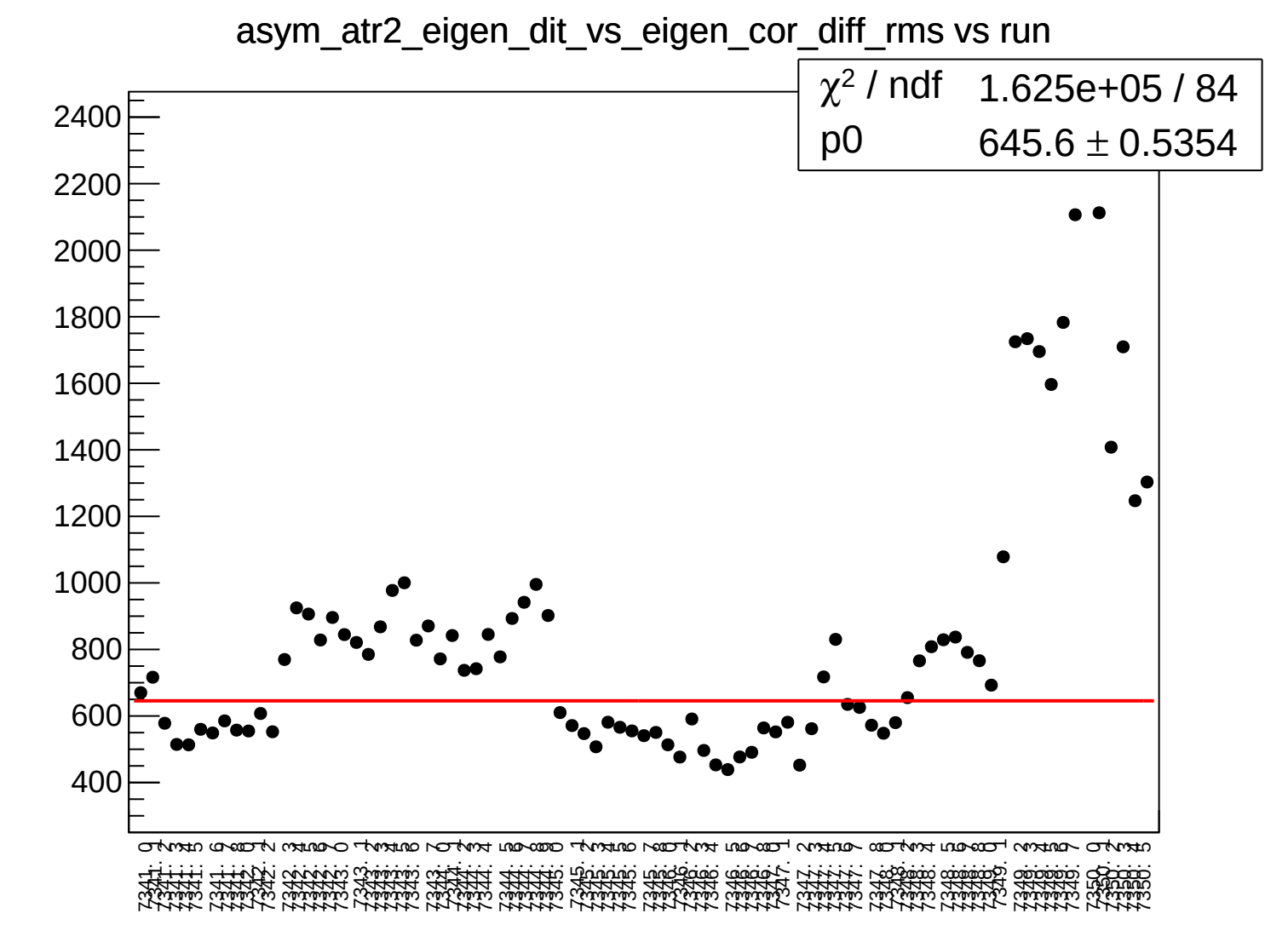

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6503 / 84
p0 0.06113 ± 4.818e−05
0.075
0.07
0.065
0.06
0.055

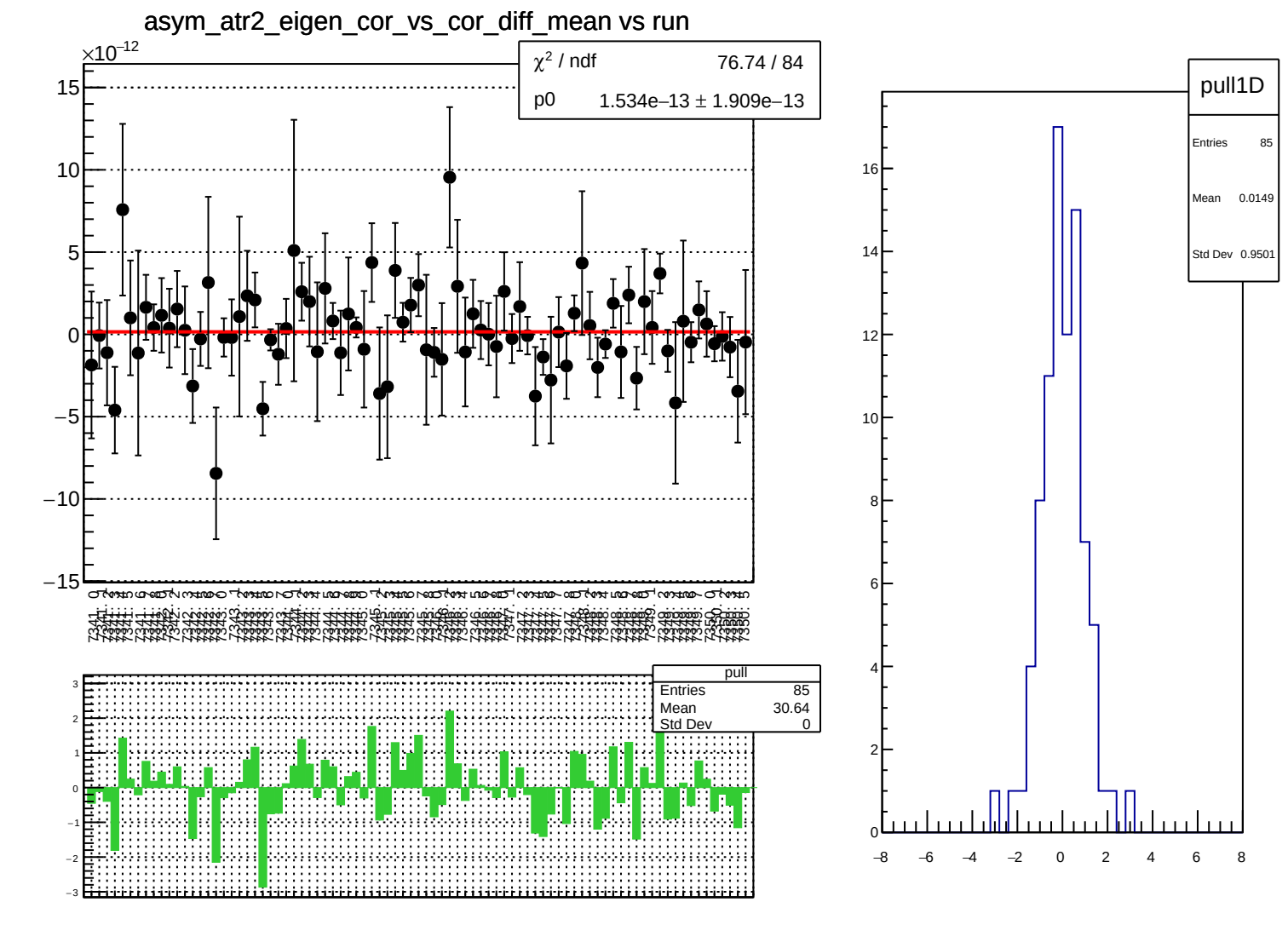

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.8 / 84
p0 0.3874 ± 0.7572
pull
Entries 85
Mean −12.42
Std Dev 0

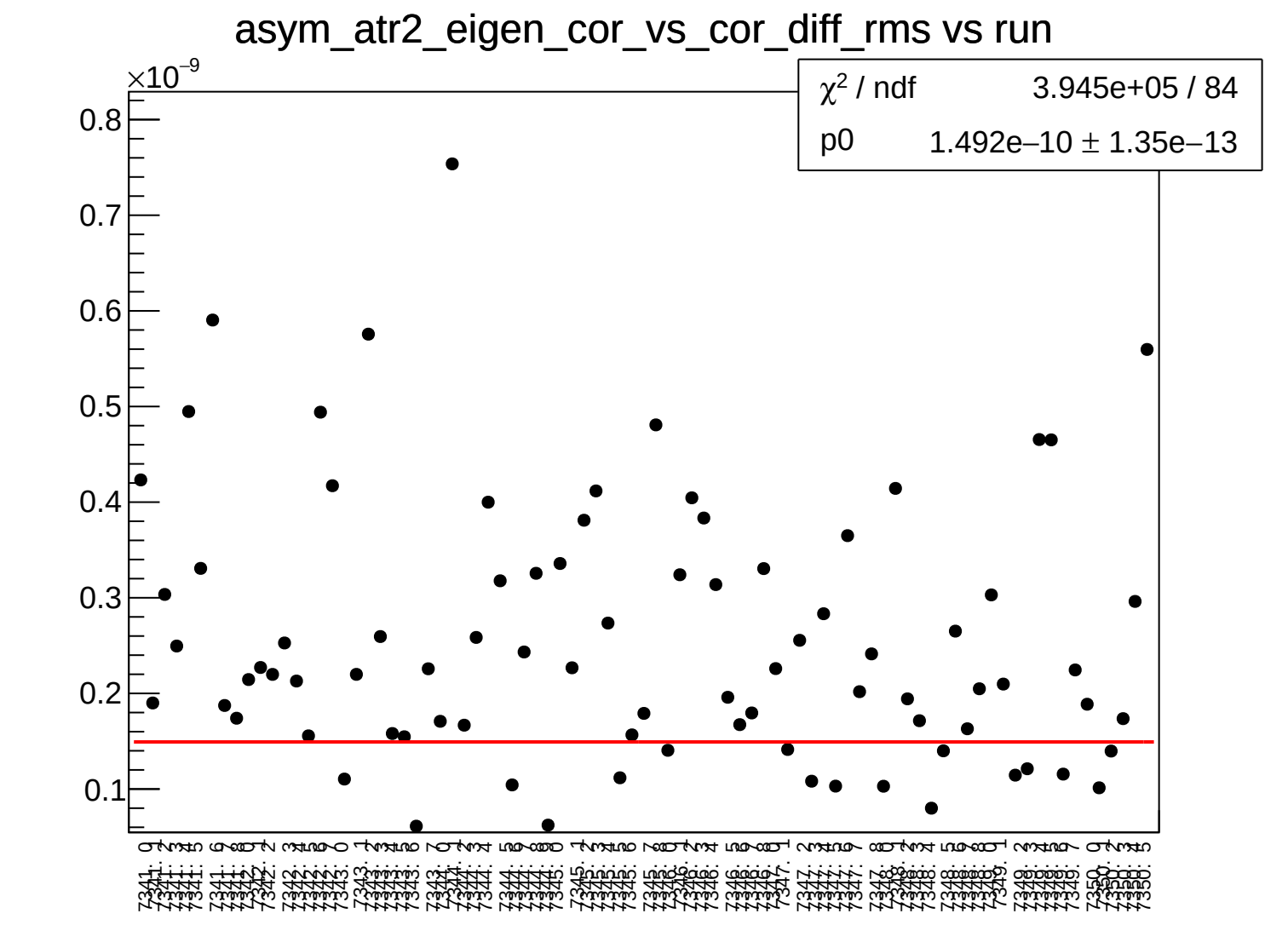

pull1D
Entries 85
Mean 0.02989
Std Dev 0.9805

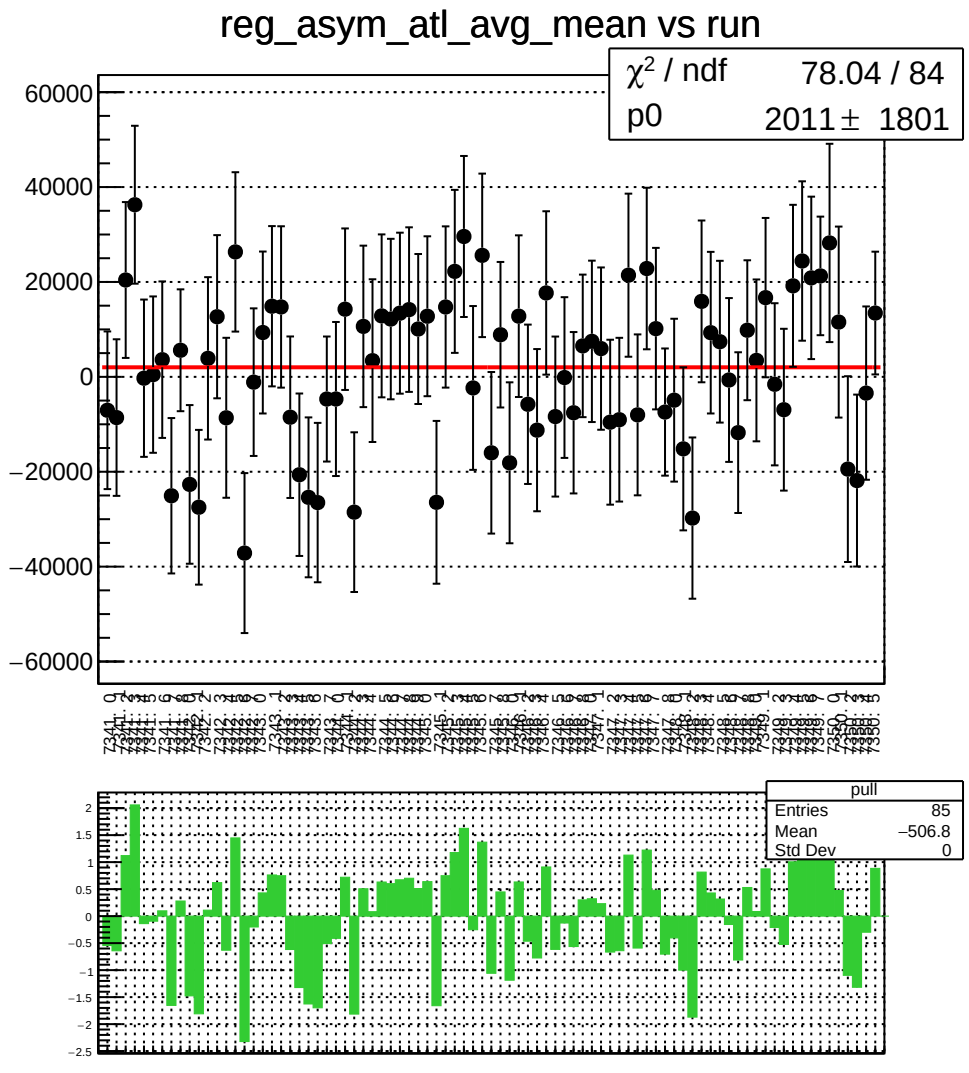

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 84
p0 645.6 ± 0.5354
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400

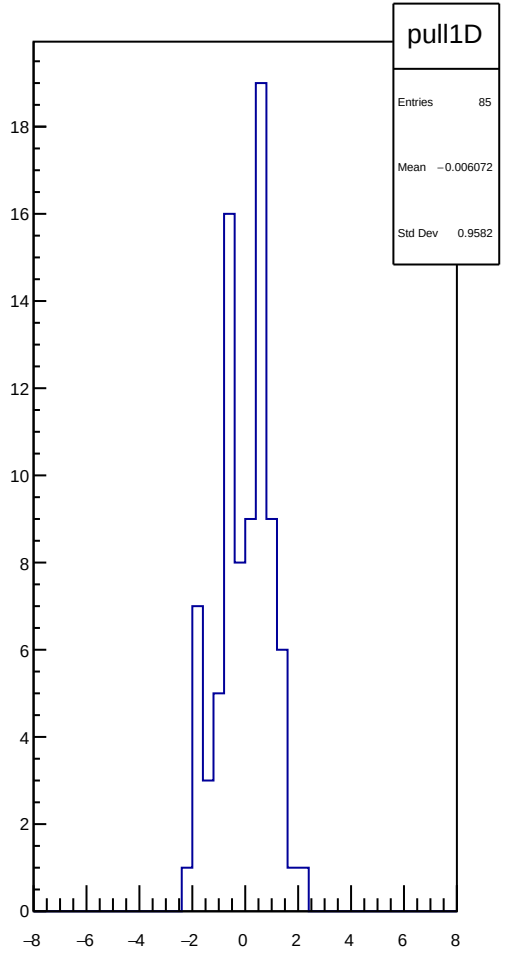

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.8 / 84
p0 0.3874 ± 0.7572
pull
Entries 85
Mean −12.42
Std Dev 0
pull1D
Entries 85
Mean 0.02989
Std Dev 0.9805

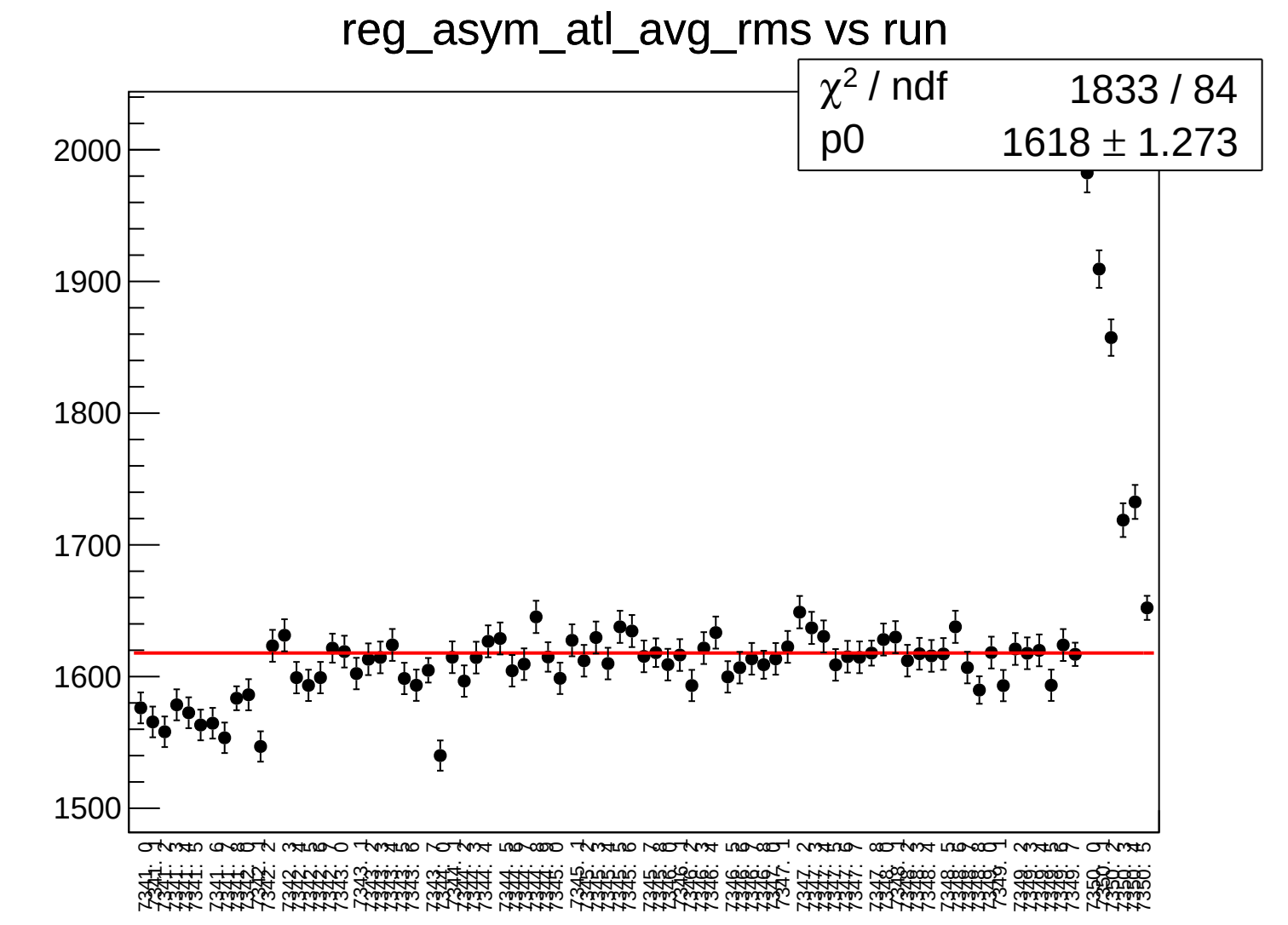

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 84
p0 645.6 ± 0.5354
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400

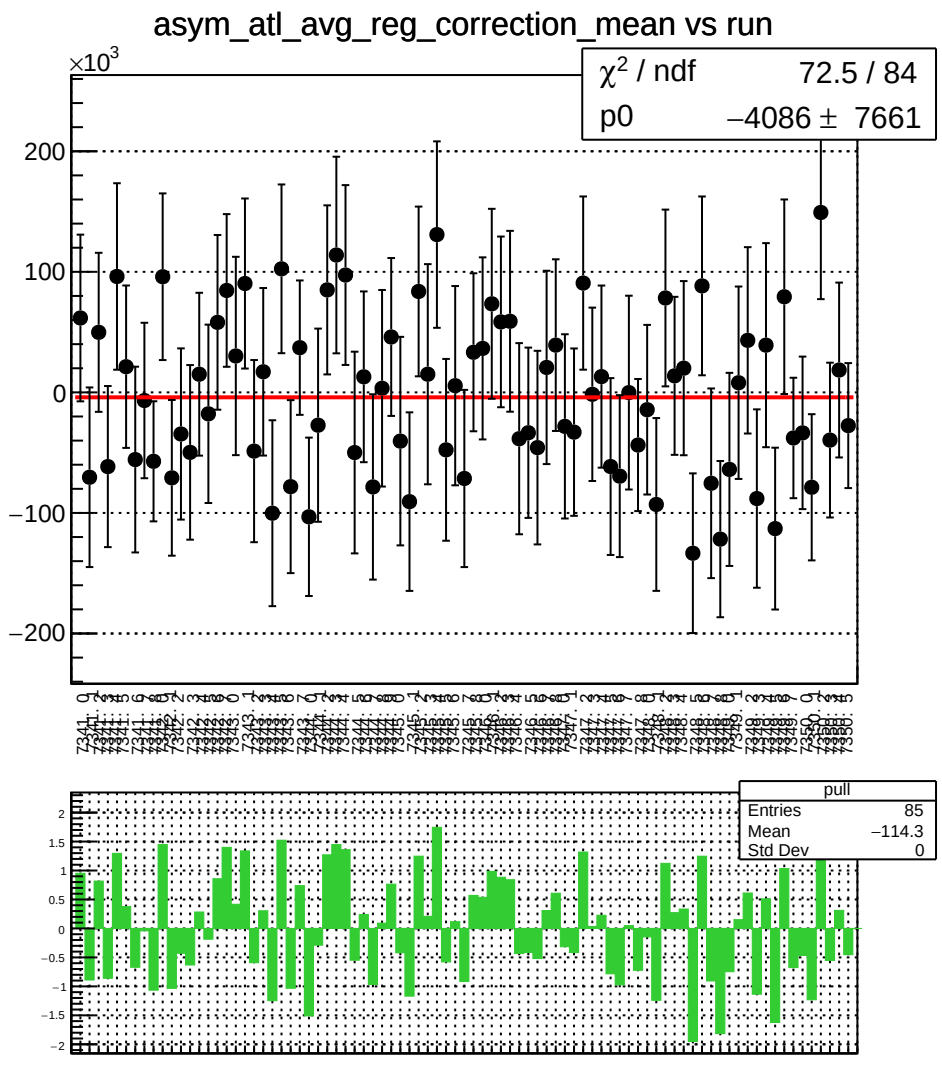

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.74 / 84
p0 1.534e−13 ± 1.909e−13
pull
Entries 85
Mean 30.64
Std Dev 0
pull1D
Entries 85
Mean 0.0149
Std Dev 0.9501

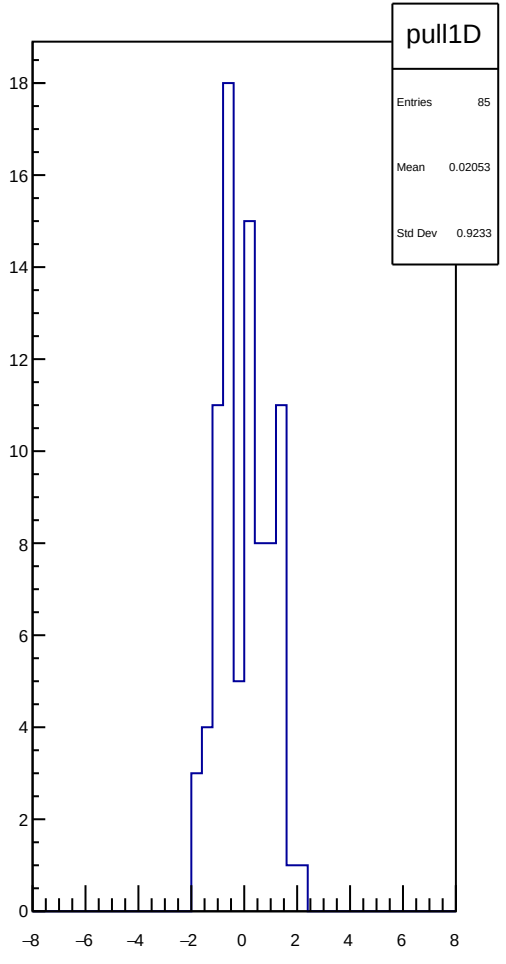

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 3.945e+05 / 84
p0 1.492e−10 ± 1.35e−13

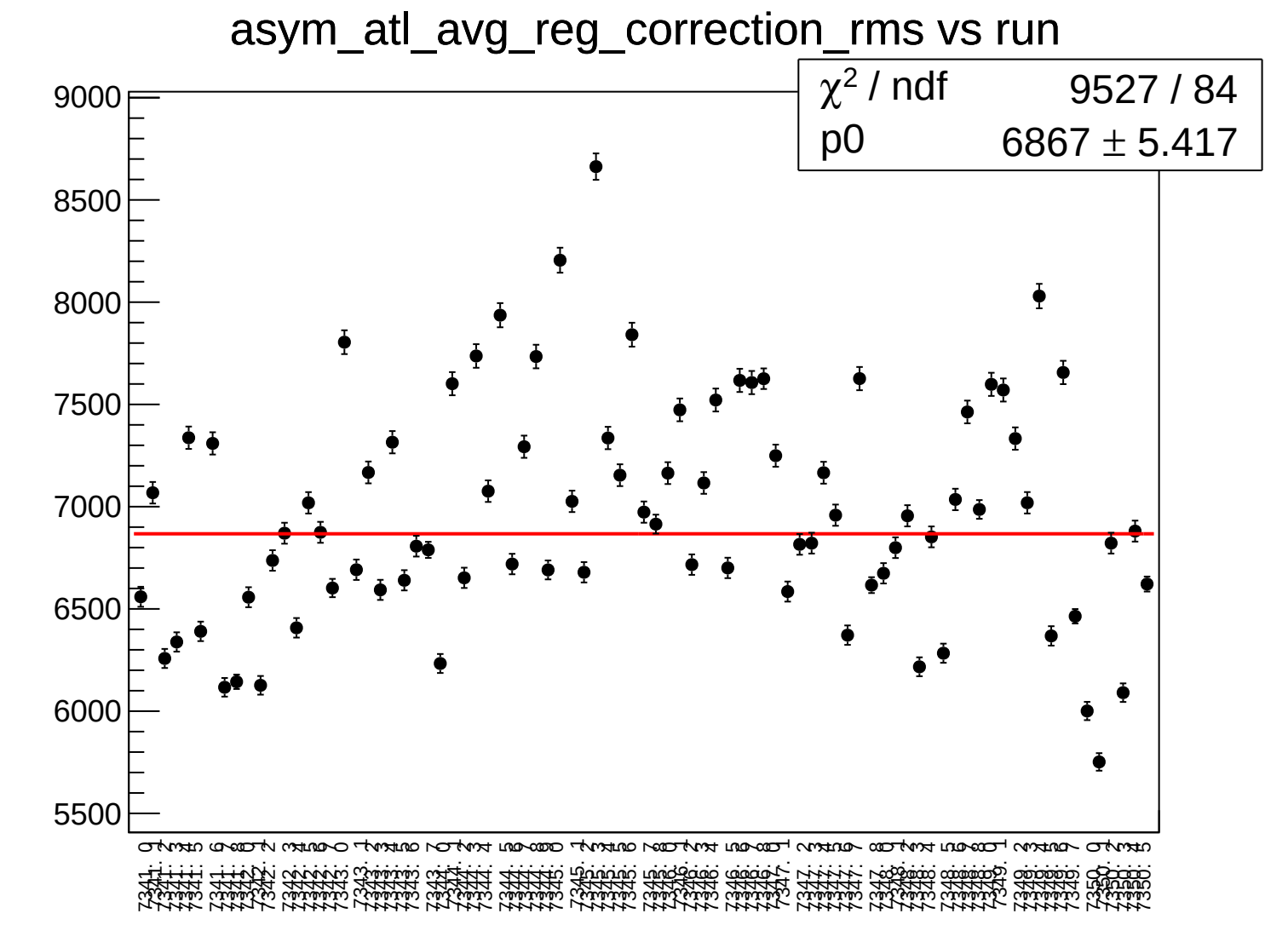

reg_asym_atl_avg_mean vs run
χ² / ndf 78.04 / 84
p0 2011 ± 1801
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −506.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

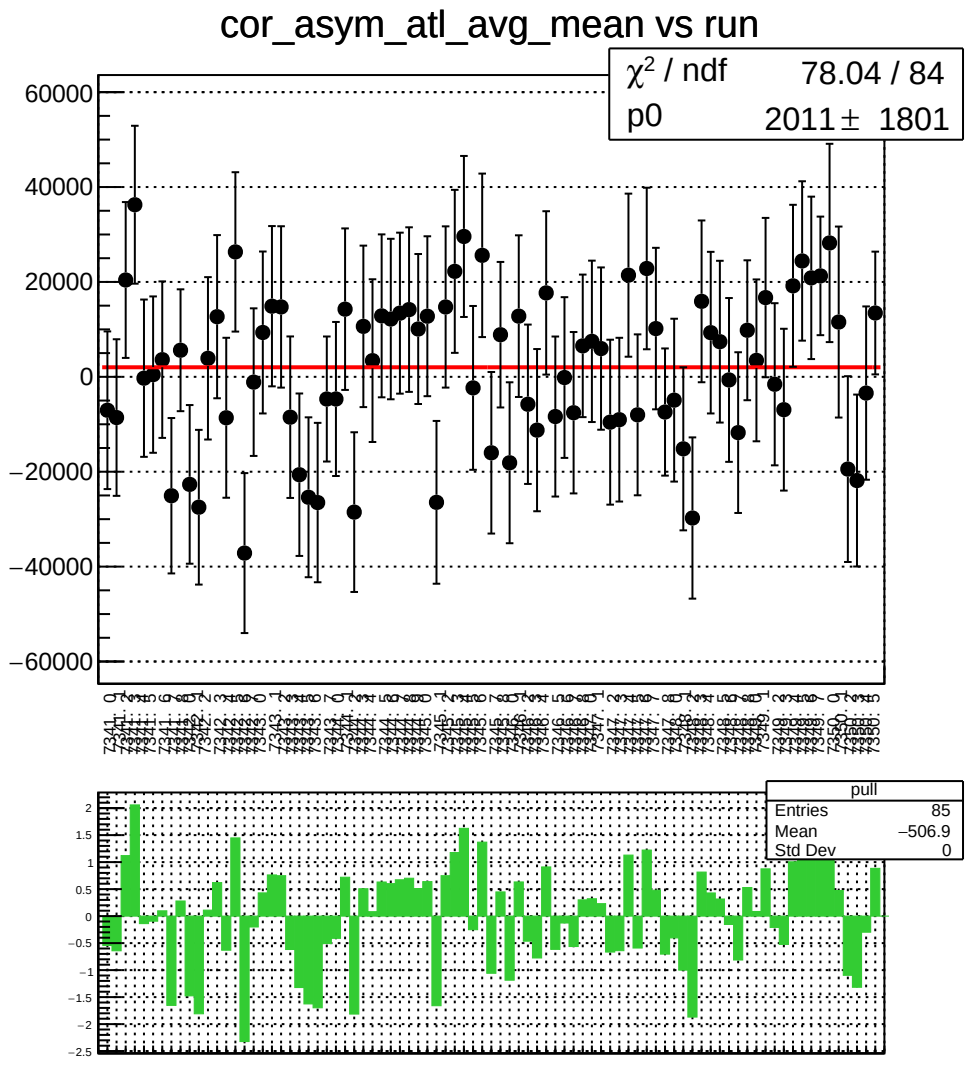

pull1D
Entries 85
Mean −0.006072
Std Dev 0.9582
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

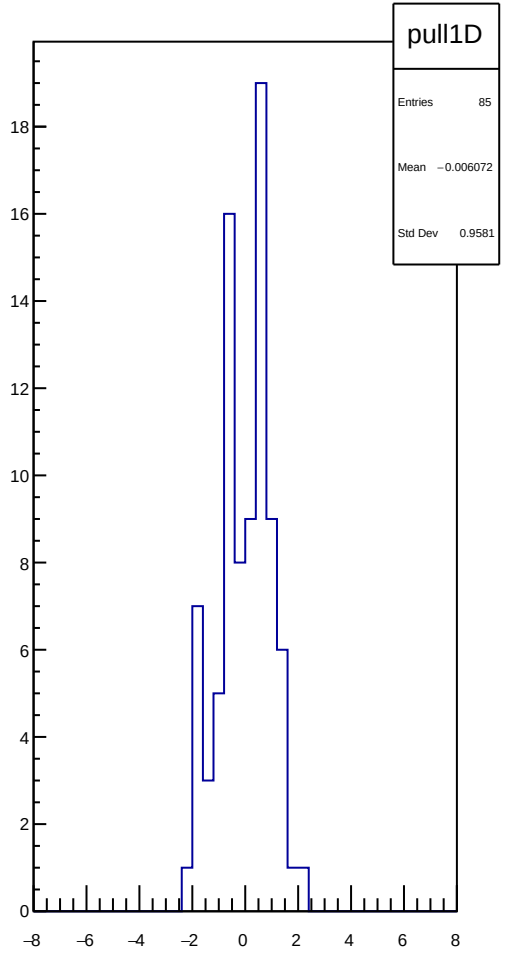

reg_asym_atl_avg_rms vs run
χ^2 / ndf 1833 / 84
p0 1618 ± 1.273
2000
1900
1800
1700
1600
1500

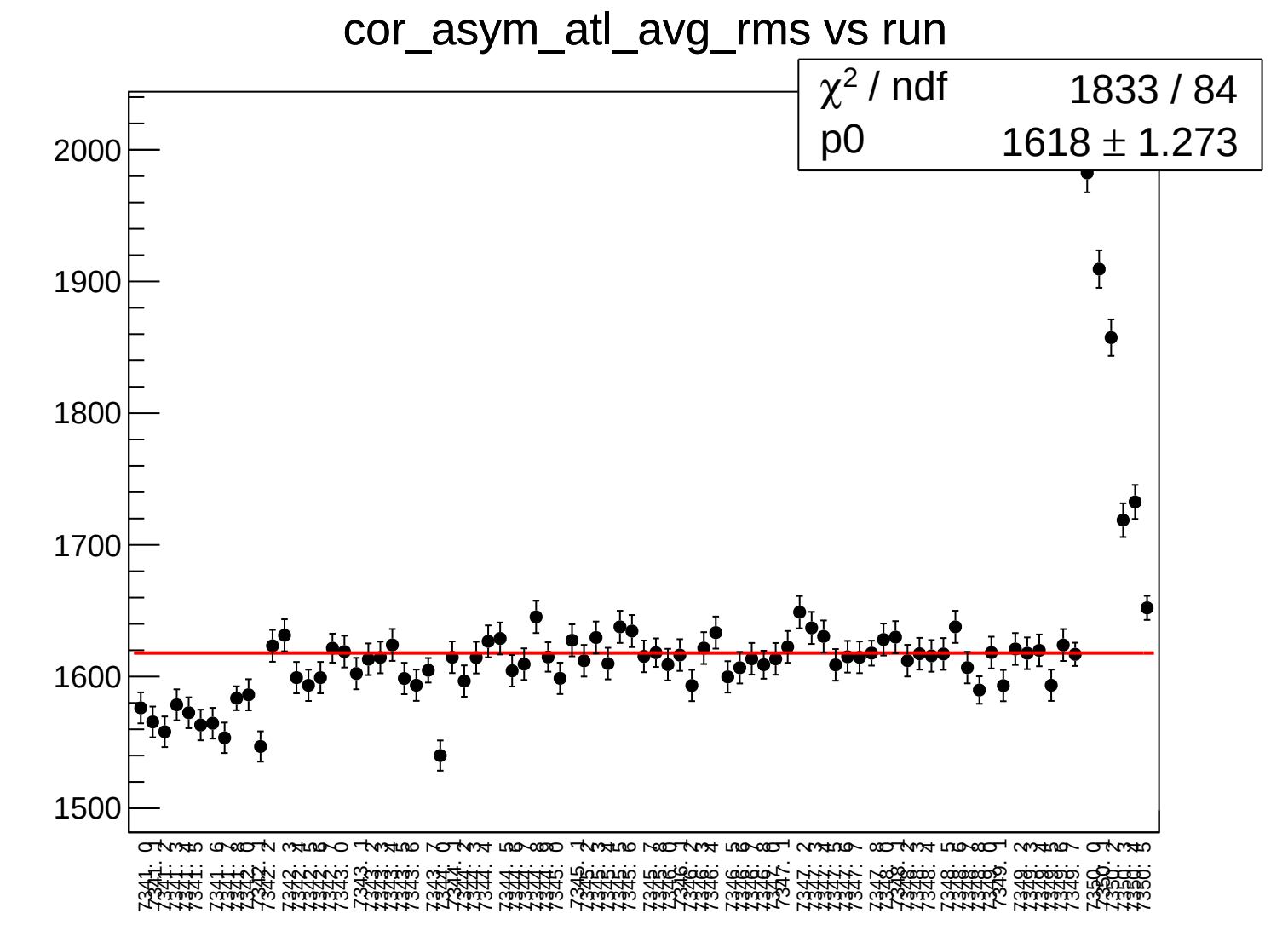

asym_atl_avg_reg_correction_mean vs run
χ^2 / ndf 72.5 / 84
p0 −4086 ± 7661
×10^3
200
100
0
−100
−200
pull
Entries 85
Mean −114.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

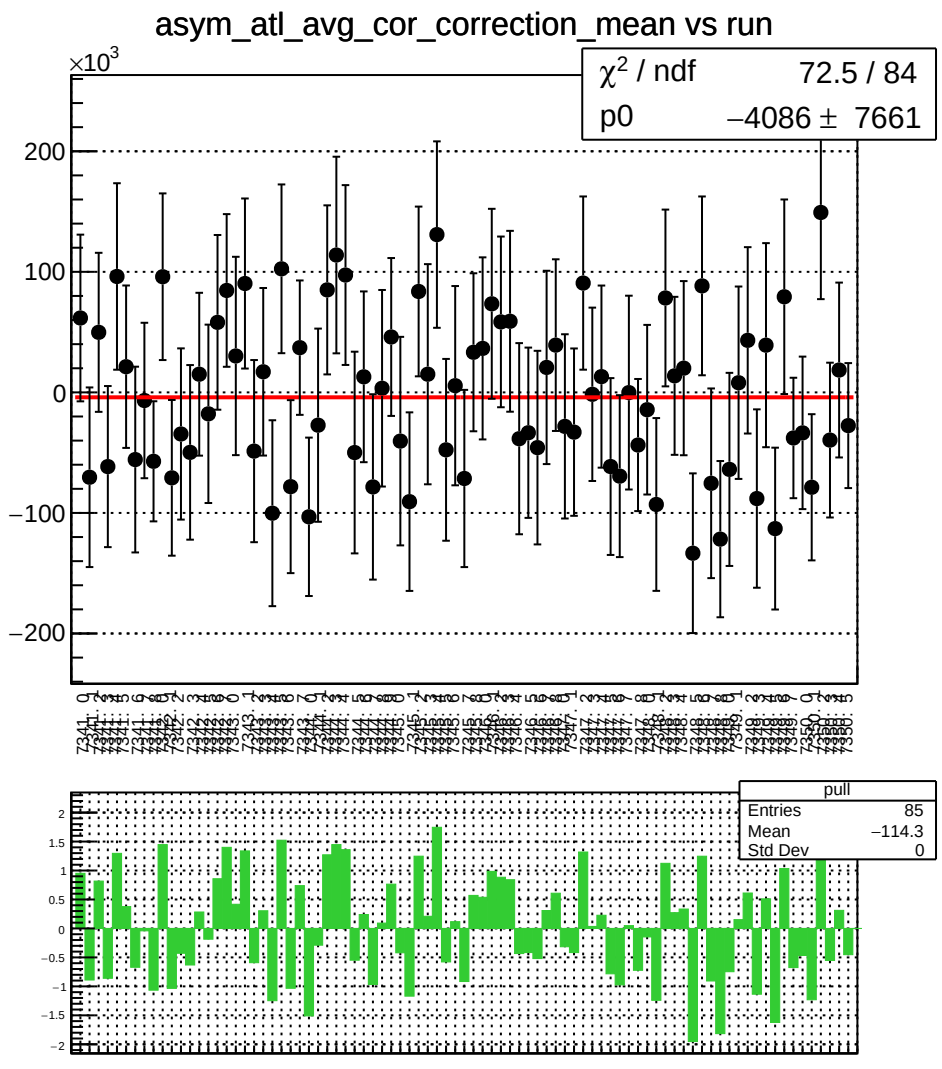

pull1D
Entries 85
Mean 0.02053
Std Dev 0.9233
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

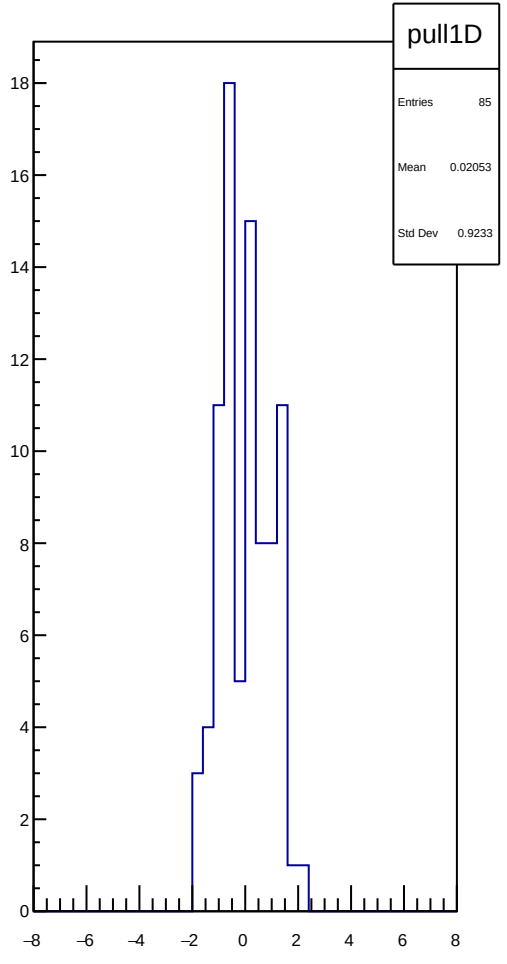

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 9527 / 84
p0 6867 ± 5.417
9000
8500
8000
7500
7000
6500
6000
5500

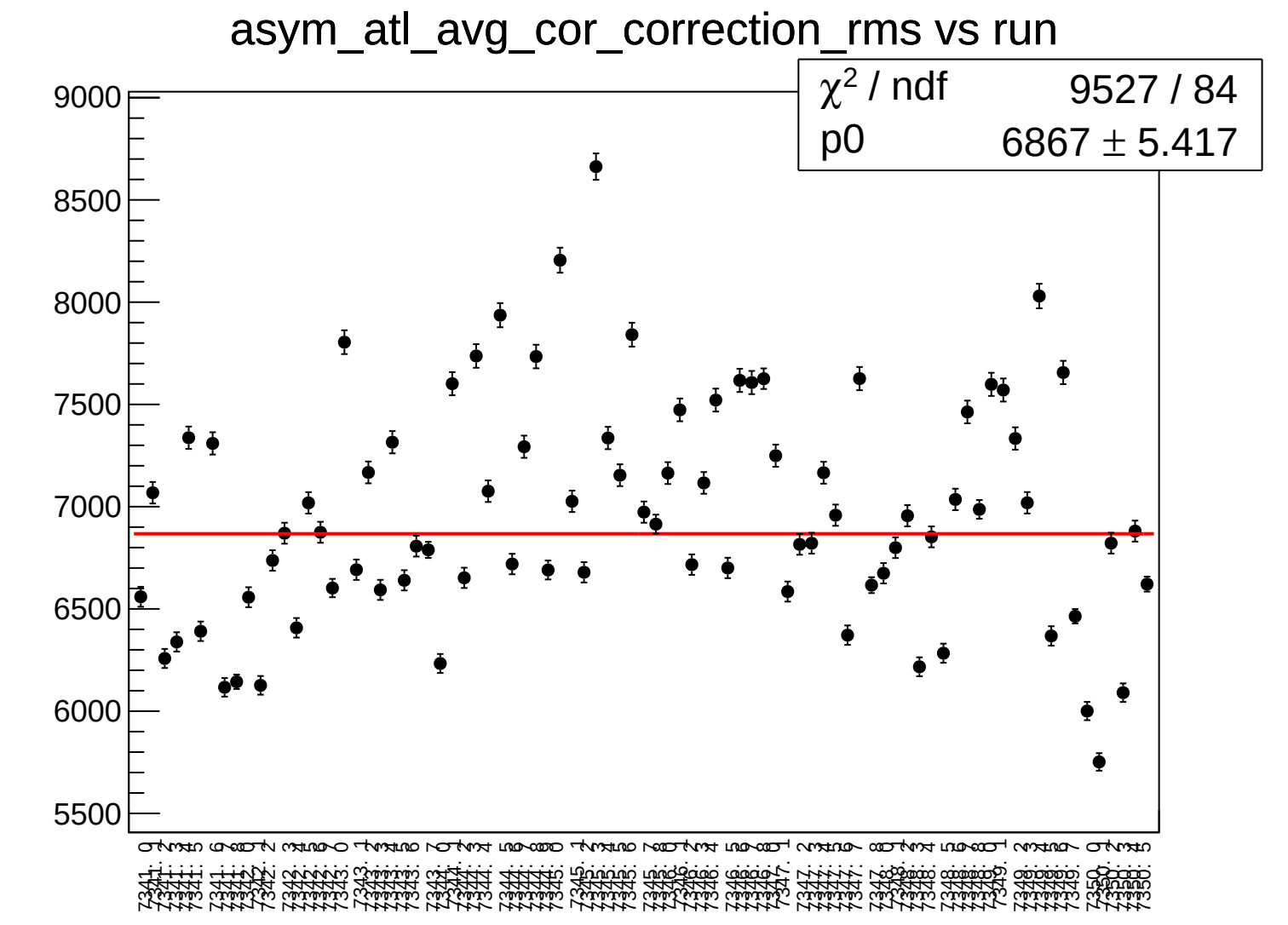

cor_asym_atl_avg_mean vs run
χ² / ndf 78.04 / 84
p0 2011 ± 1801
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −506.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

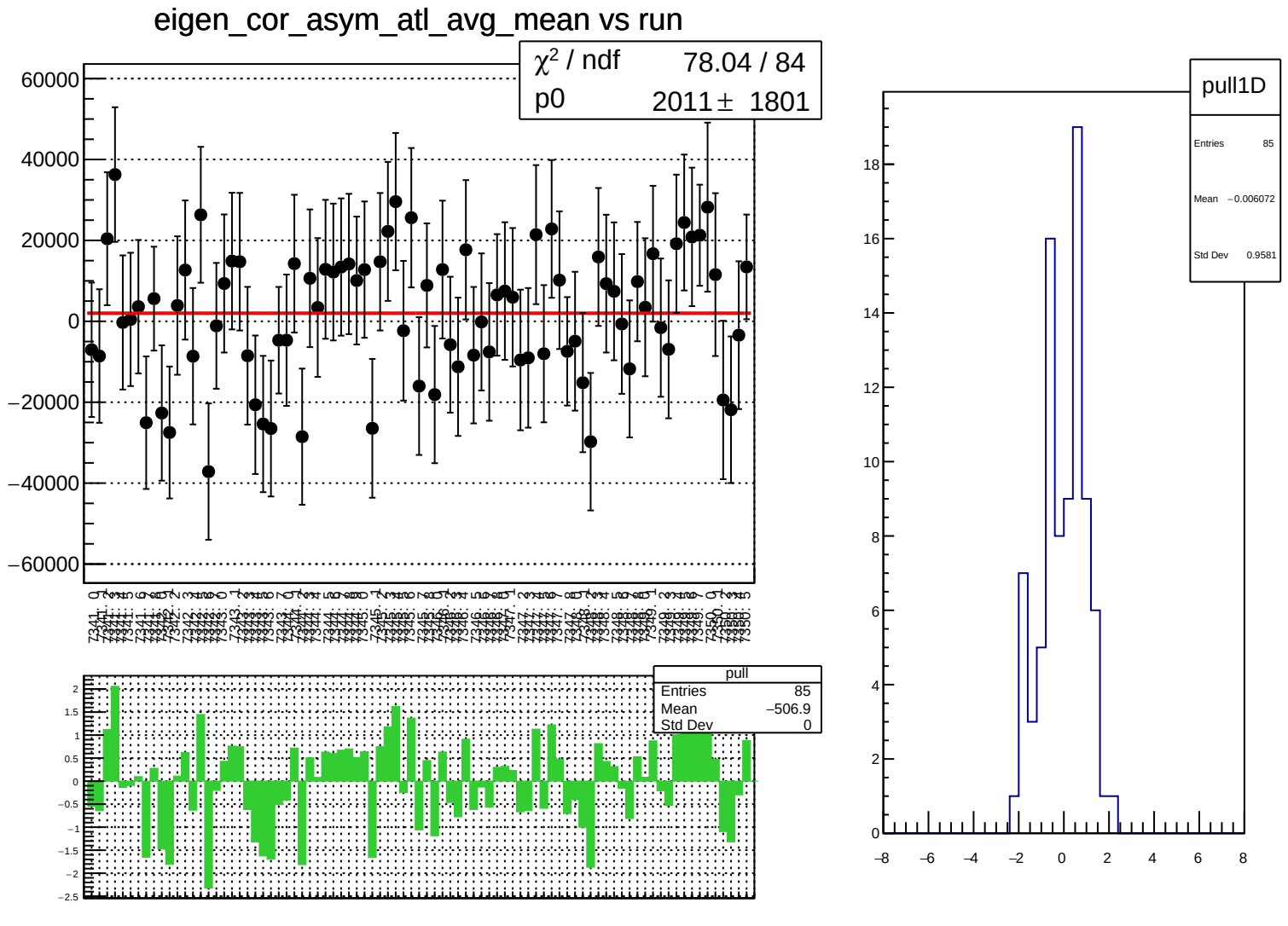

pull1D
Entries 85
Mean −0.006072
Std Dev 0.9581
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

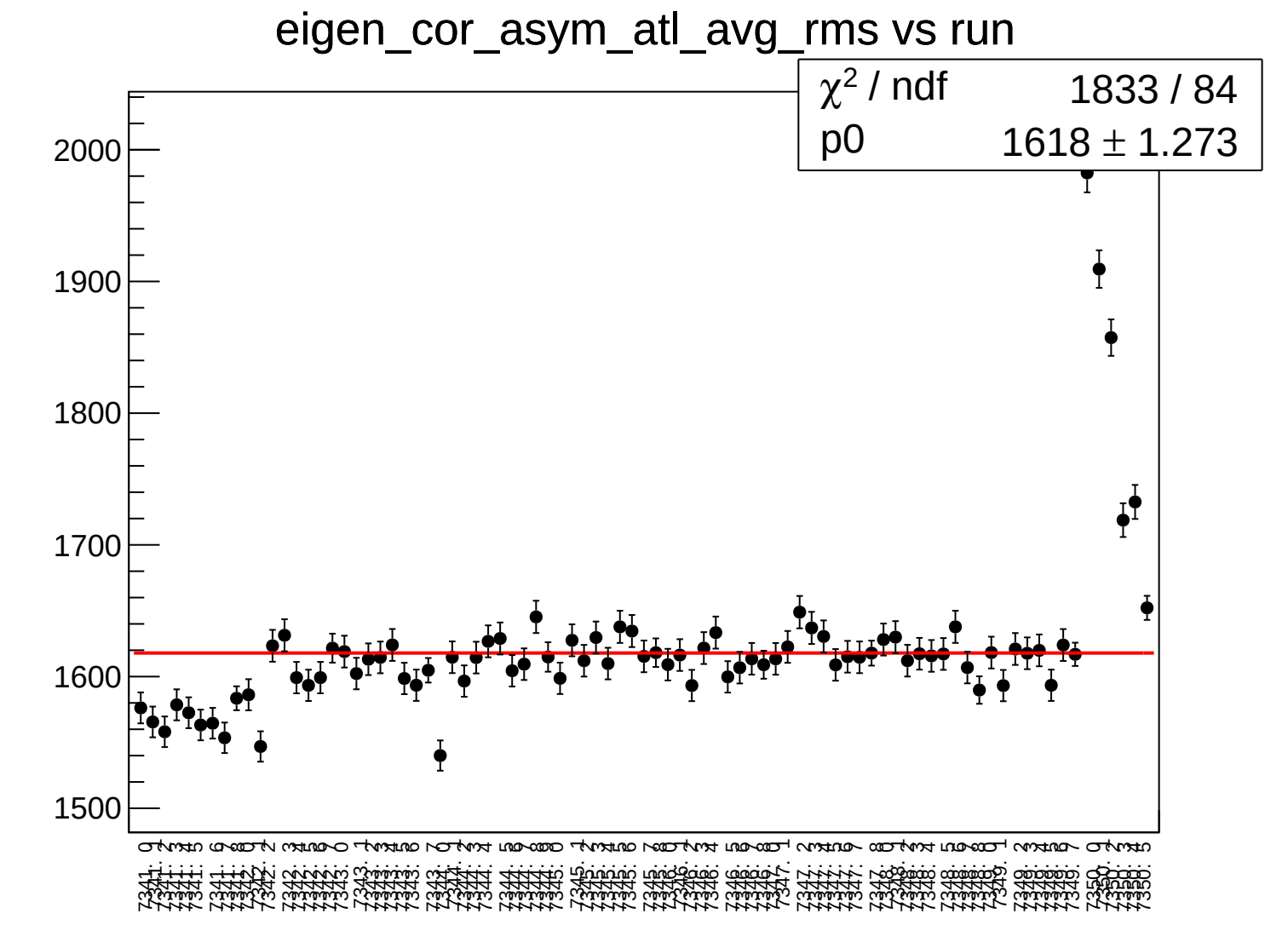

cor_asym_atl_avg_rms vs run
χ^2 / ndf 1833 / 84
p0 1618 ± 1.273
2000
1900
1800
1700
1600
1500

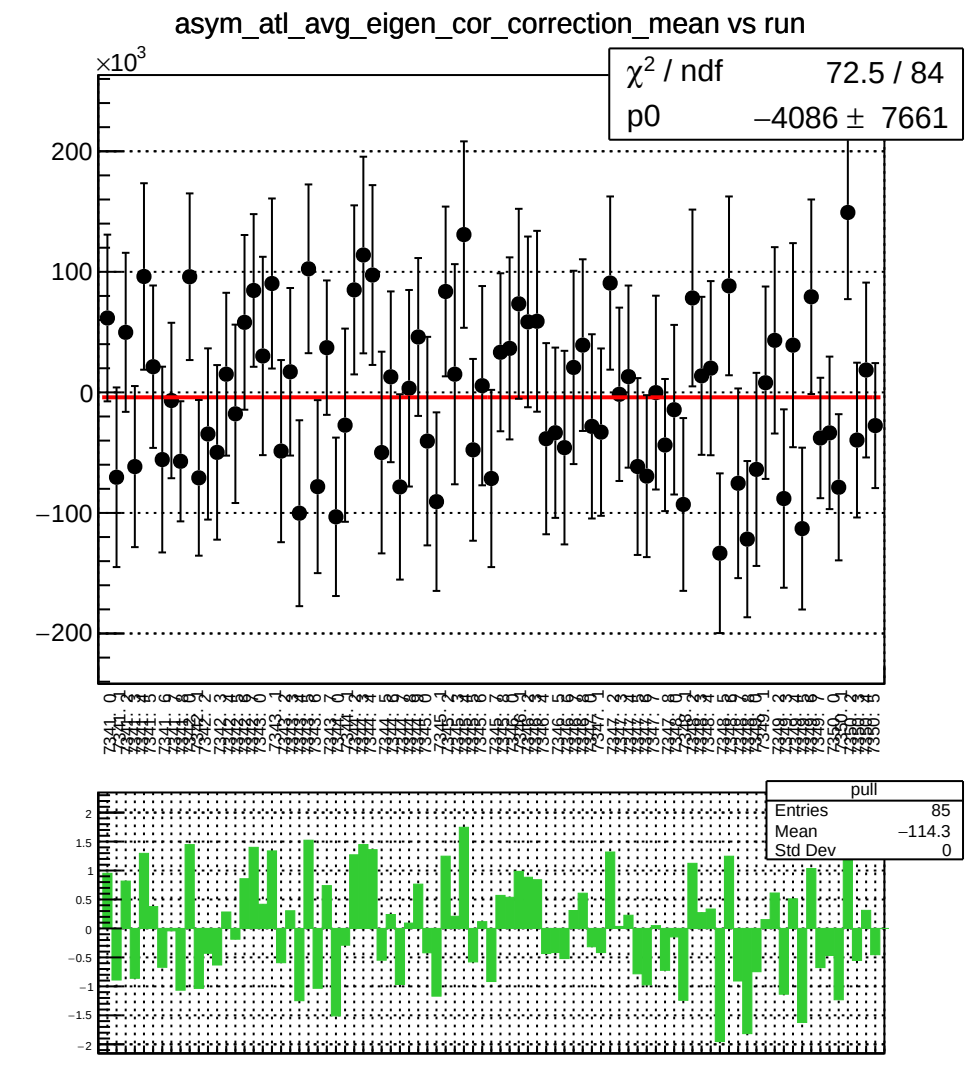

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 72.5 / 84
p0 −4086 ± 7661
×10³
200
100
0
−100
−200
pull
Entries 85
Mean −114.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

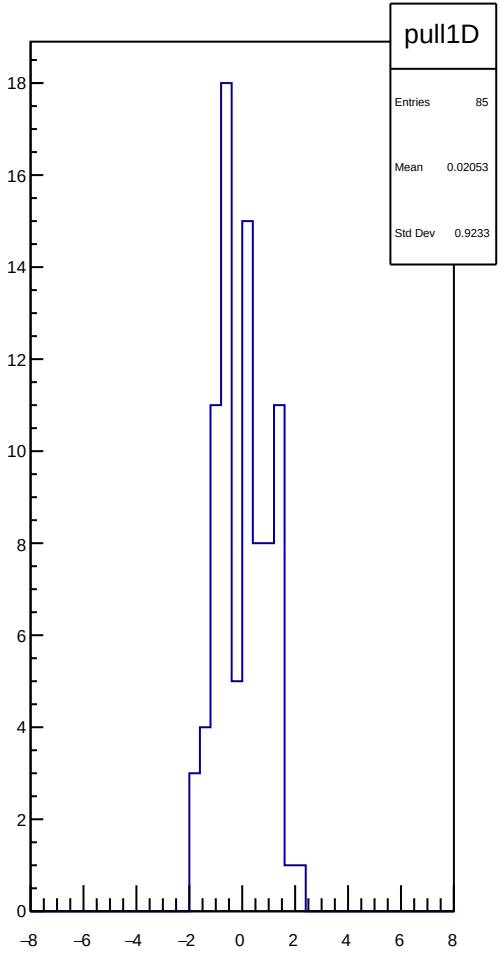

pull1D
Entries 85
Mean 0.02053
Std Dev 0.9233
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

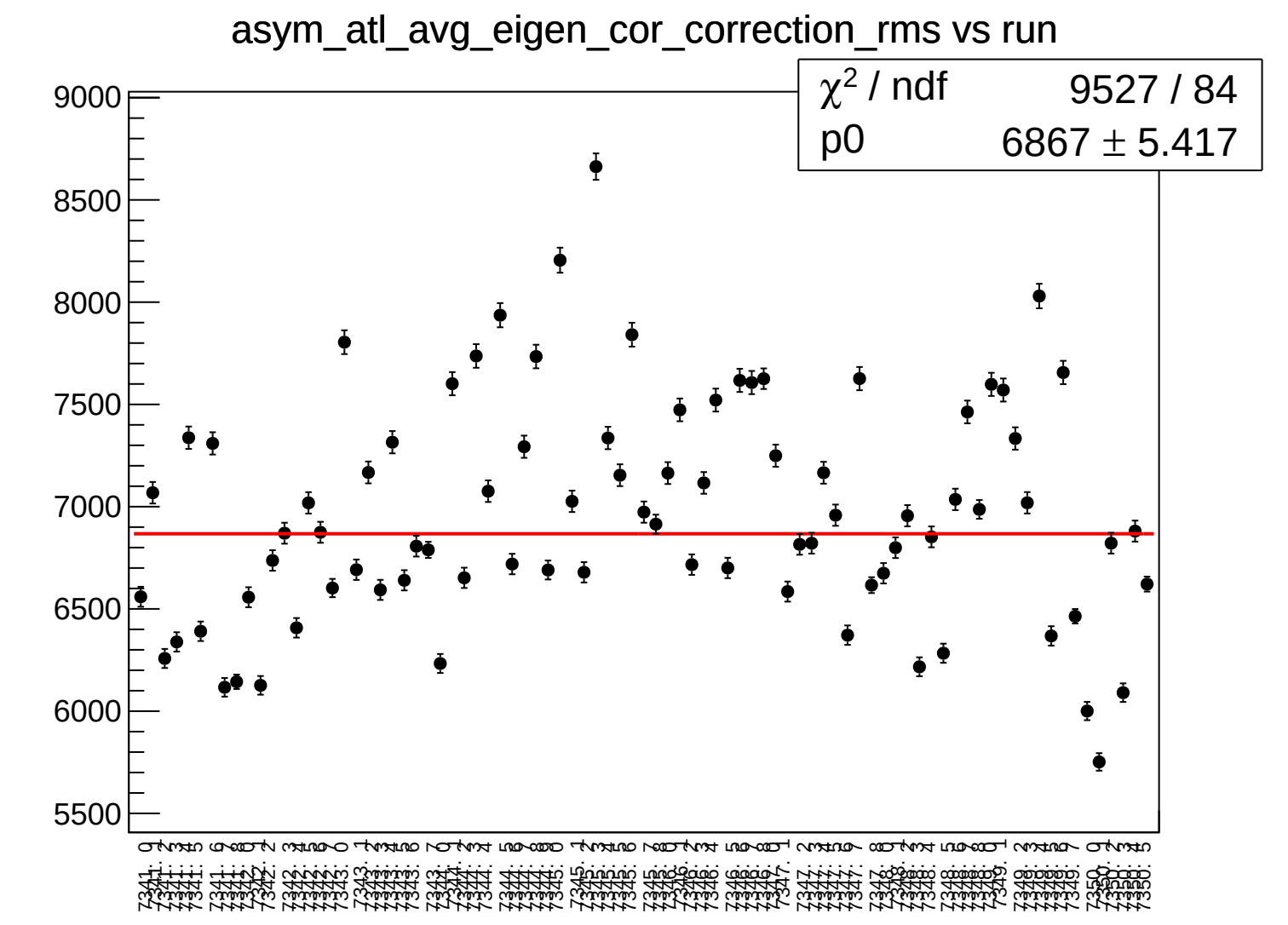

asym_atl_avg_cor_correction_rms vs run
χ^2 / ndf 9527 / 84
p0 6867 ± 5.417
9000
8500
8000
7500
7000
6500
6000
5500

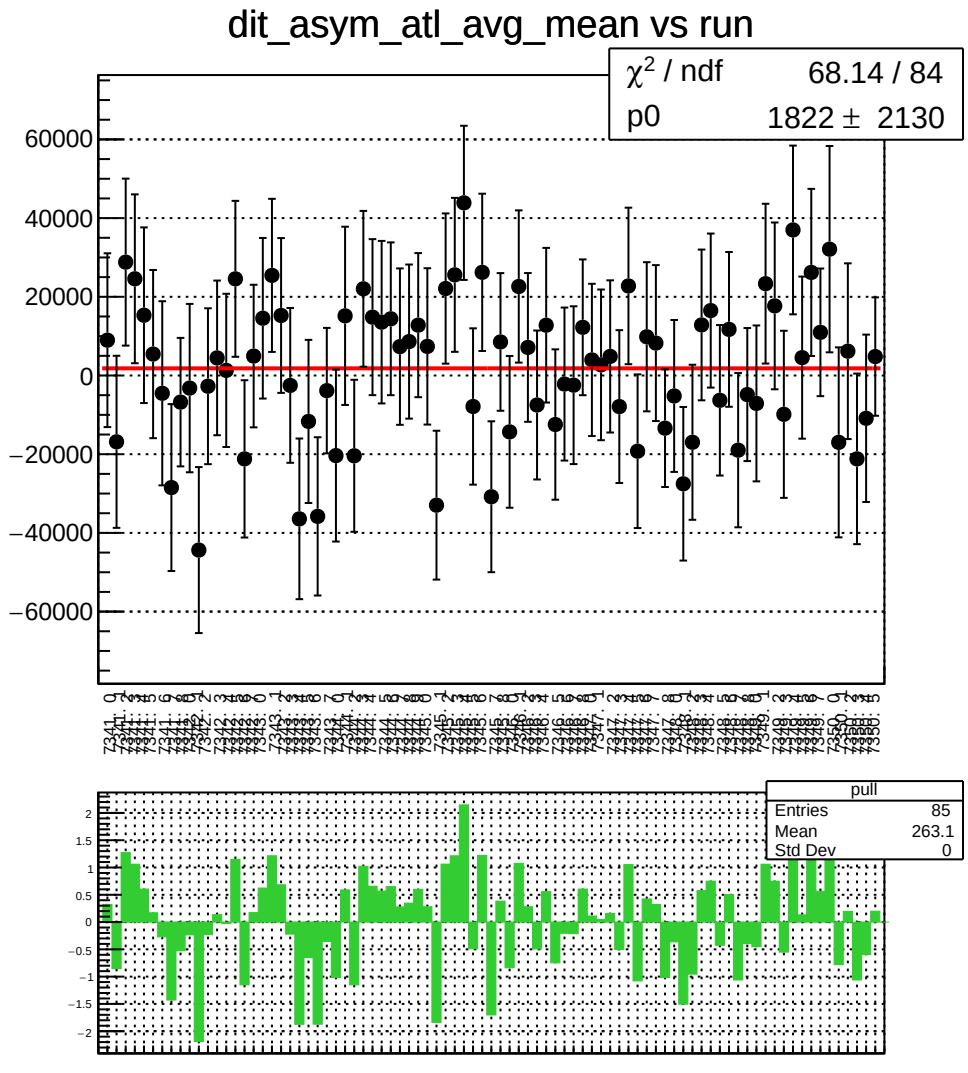

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 78.04 / 84
p0 2011 ± 1801
pull
Entries 85
Mean −506.9
Std Dev 0
pull1D
Entries 85
Mean −0.006072
Std Dev 0.9581

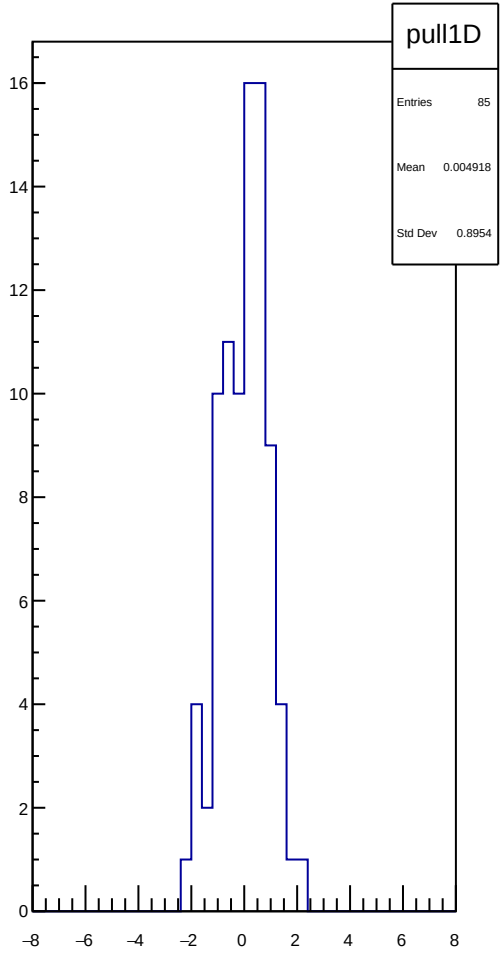

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 1833 / 84
p0 1618 ± 1.273
2000
1900
1800
1700
1600
1500

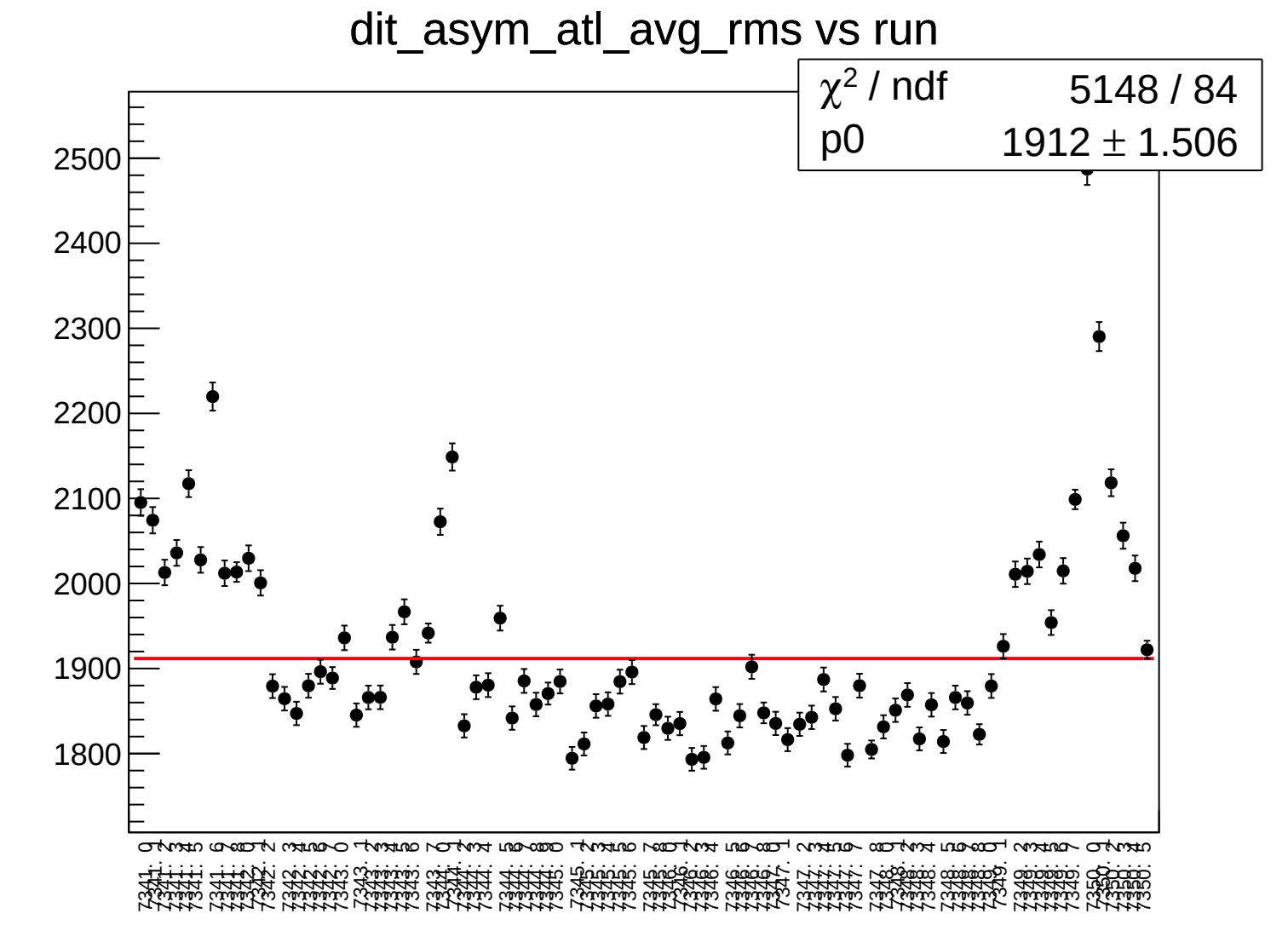

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 72.5 / 84
p0 −4086 ± 7661
200
100
0
−100
−200
pull
Entries 85
Mean −114.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

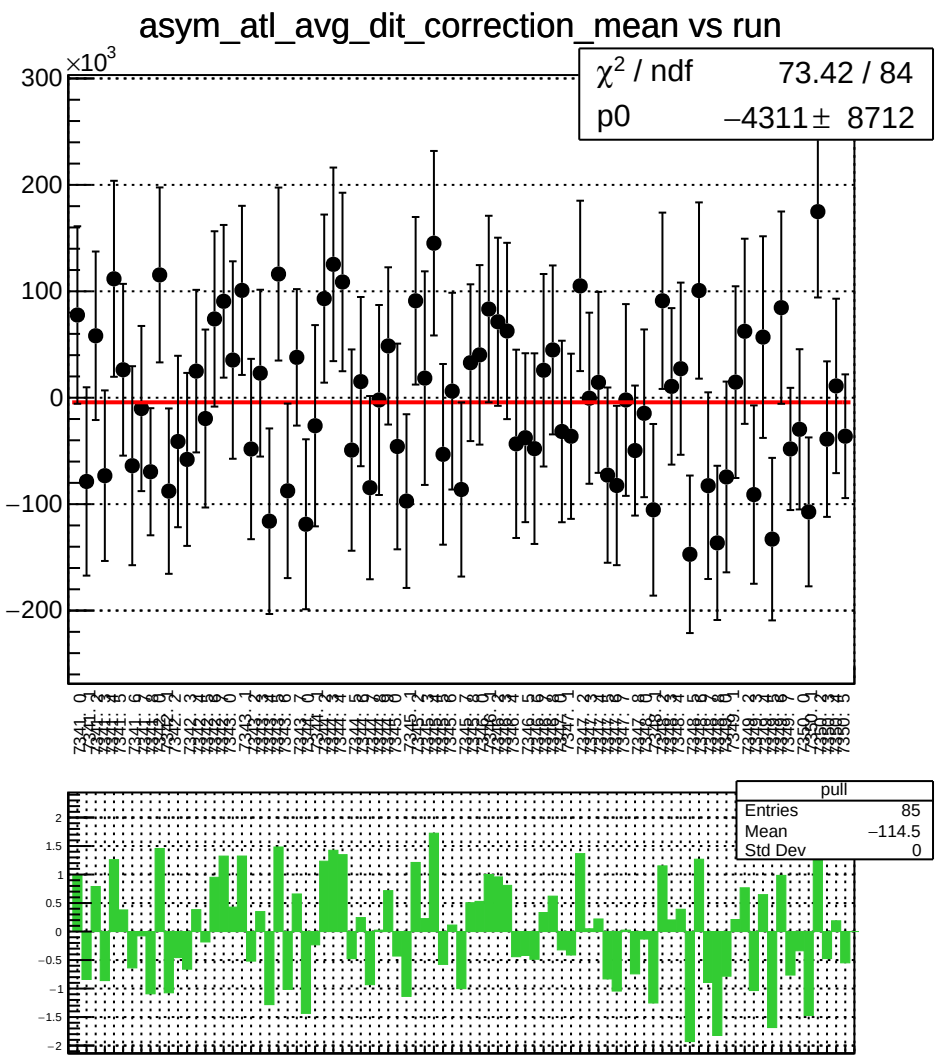

pull1D
Entries 85
Mean 0.02053
Std Dev 0.9233
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

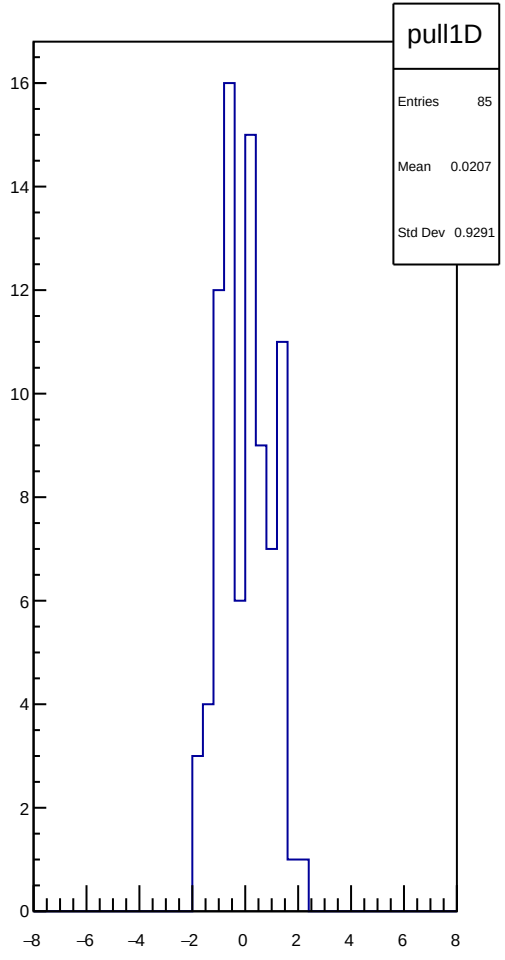

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9527 / 84
p0 6867 ± 5.417
9000
8500
8000
7500
7000
6500
6000
5500

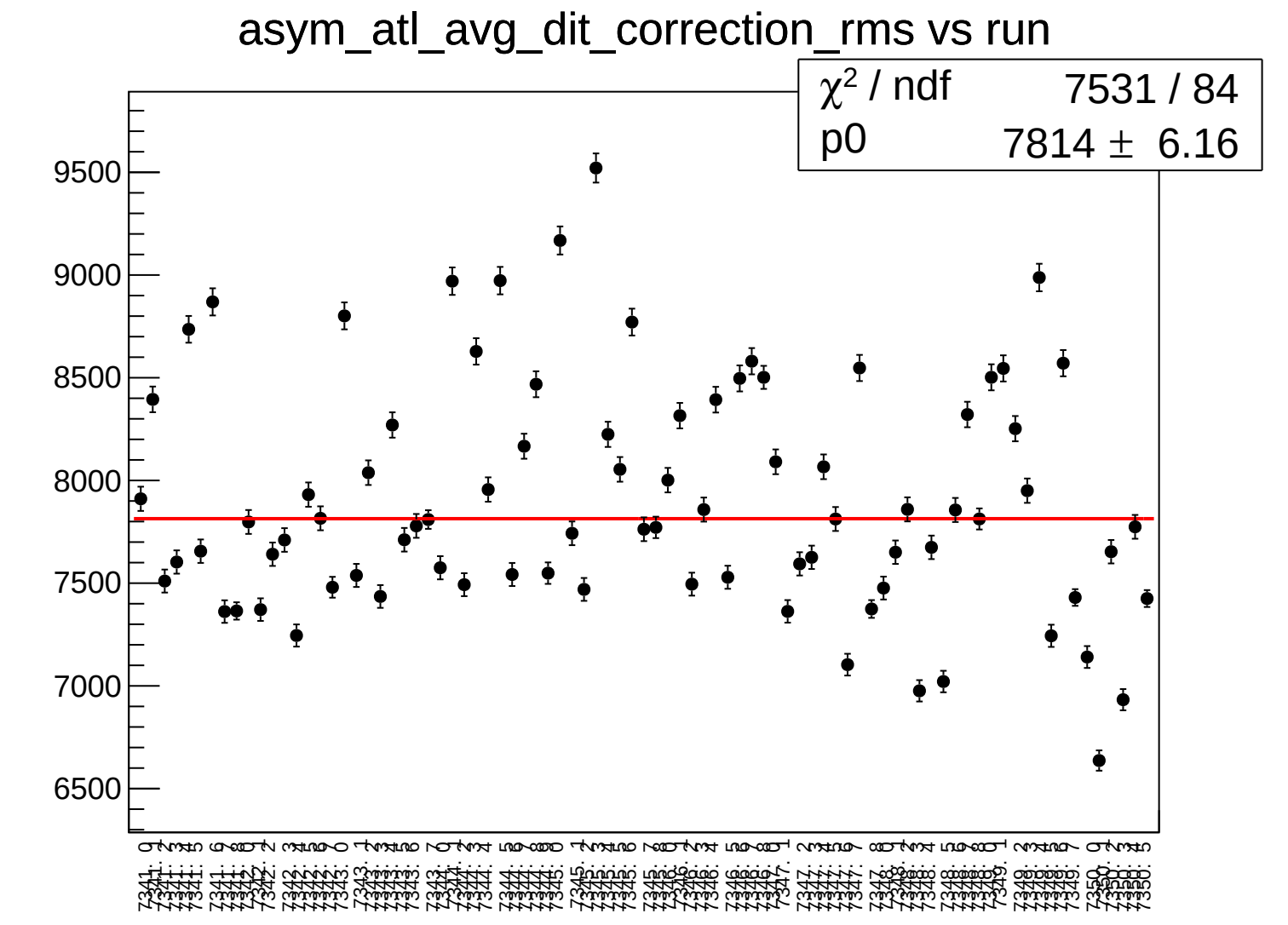

dit_asym_atl_avg_mean vs run
χ² / ndf 68.14 / 84
p0 1822 ± 2130
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 263.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

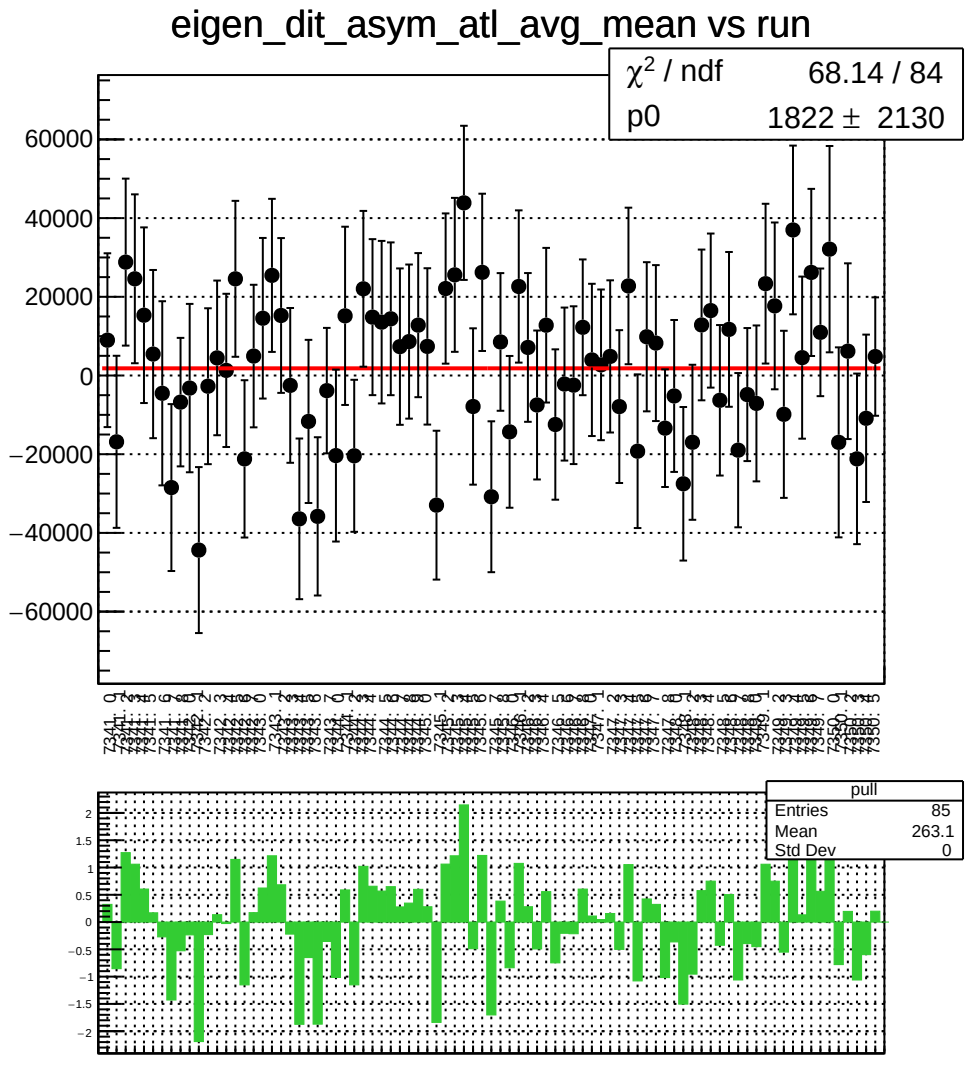

pull1D
Entries 85
Mean 0.004918
Std Dev 0.8954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

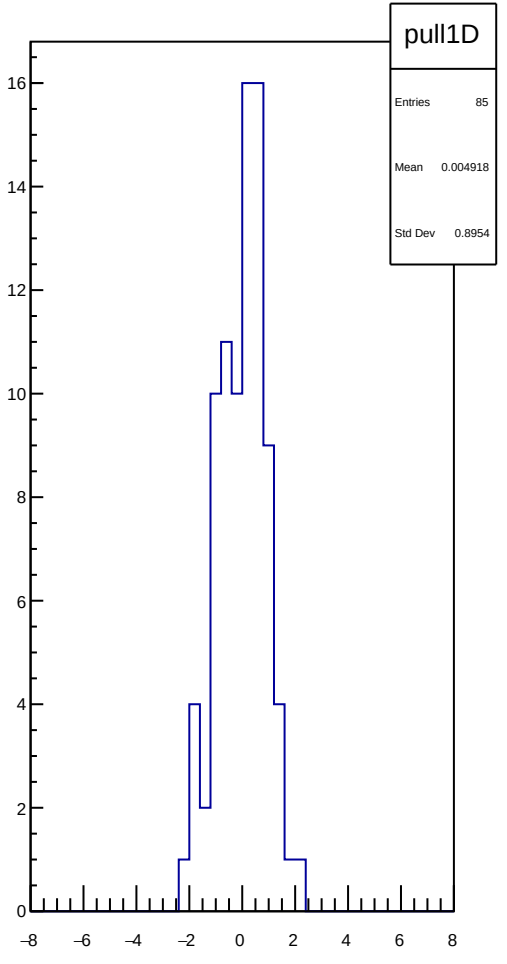

dit_asym_atl_avg_rms vs run
χ^2 / ndf 5148 / 84
p0 1912 ± 1.506
2500
2400
2300
2200
2100
2000
1900
1800

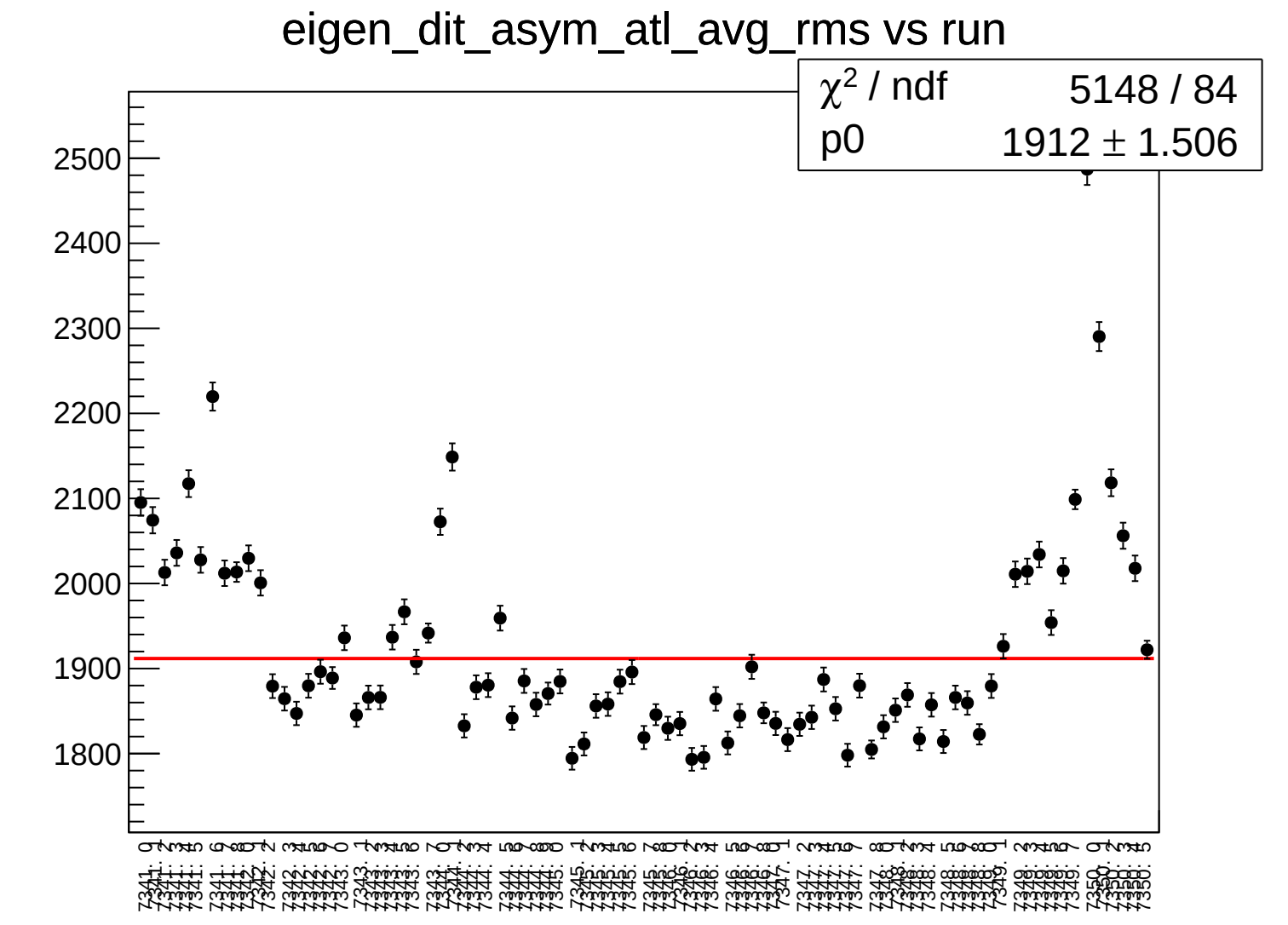

asym_atl_avg_dit_correction_mean vs run
χ² / ndf 73.42 / 84
p0 −4311 ± 8712
×10³
300
200
100
0
−100
−200
pull
Entries 85
Mean −114.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

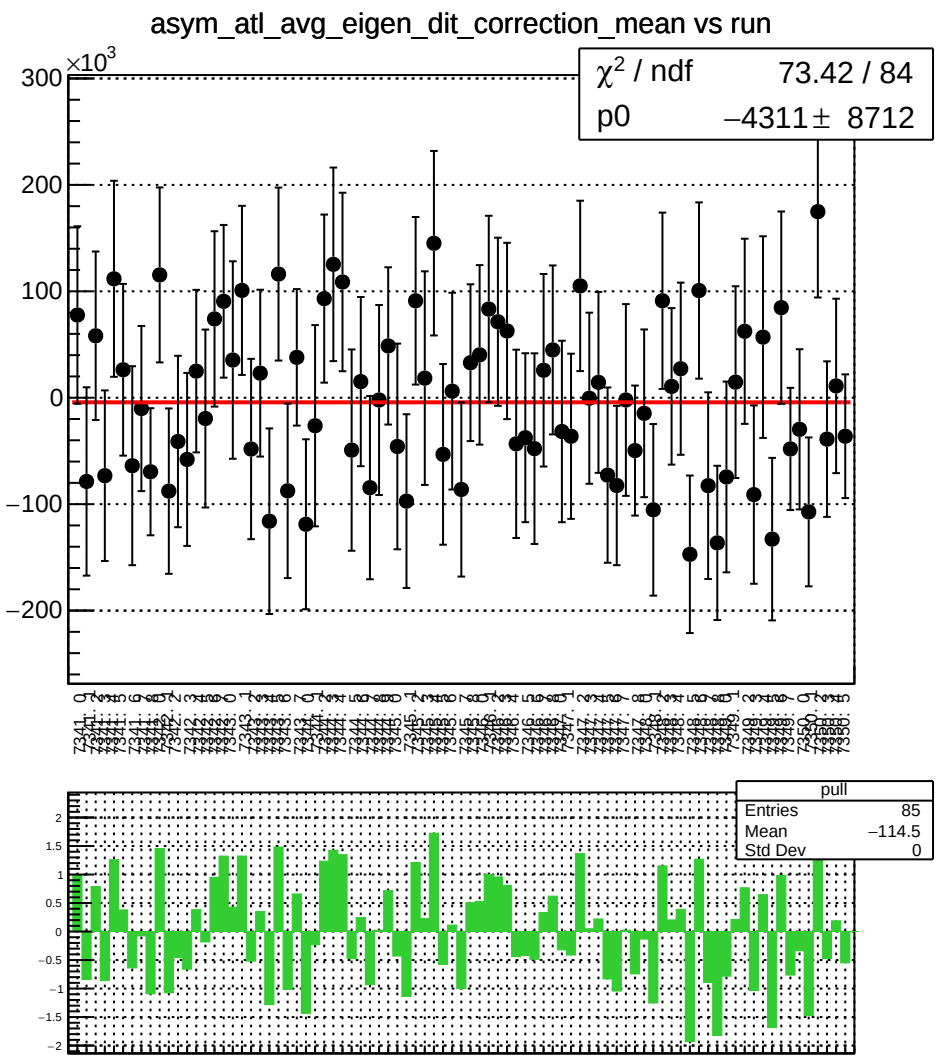

pull1D
Entries 85
Mean 0.0207
Std Dev 0.9291
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

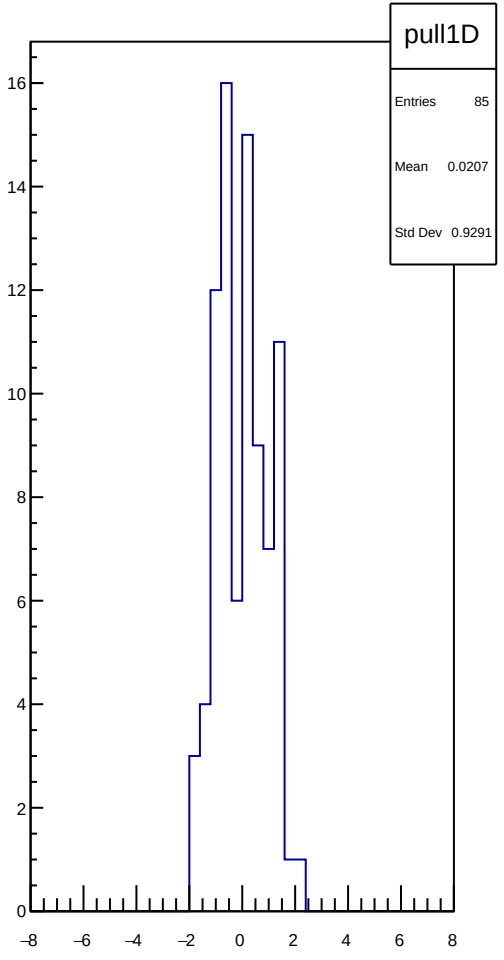

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 7531 / 84
p0 7814 ± 6.16
9500
9000
8500
8000
7500
7000
6500

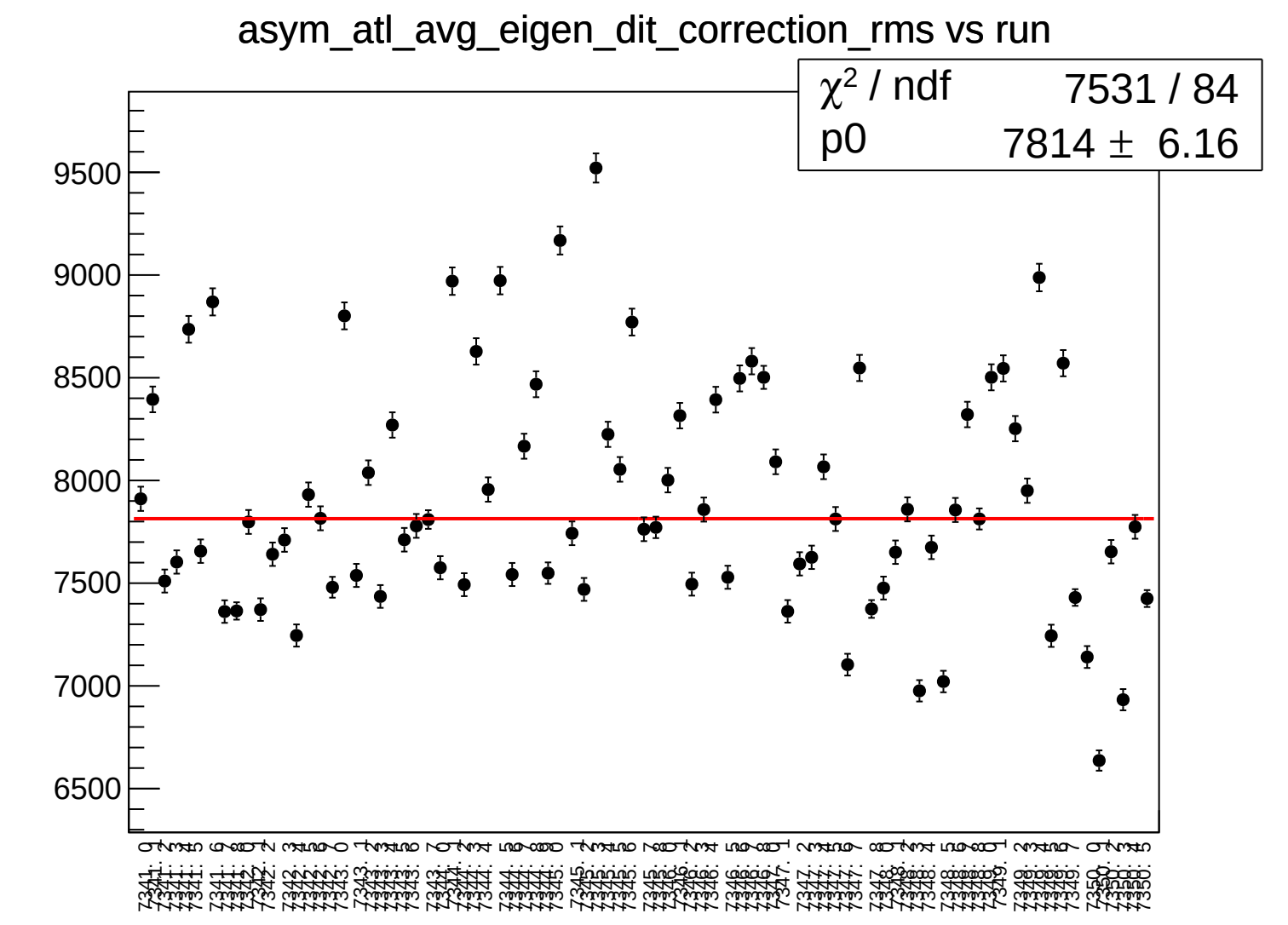

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 68.14 / 84
p0 1822 ± 2130
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 263.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

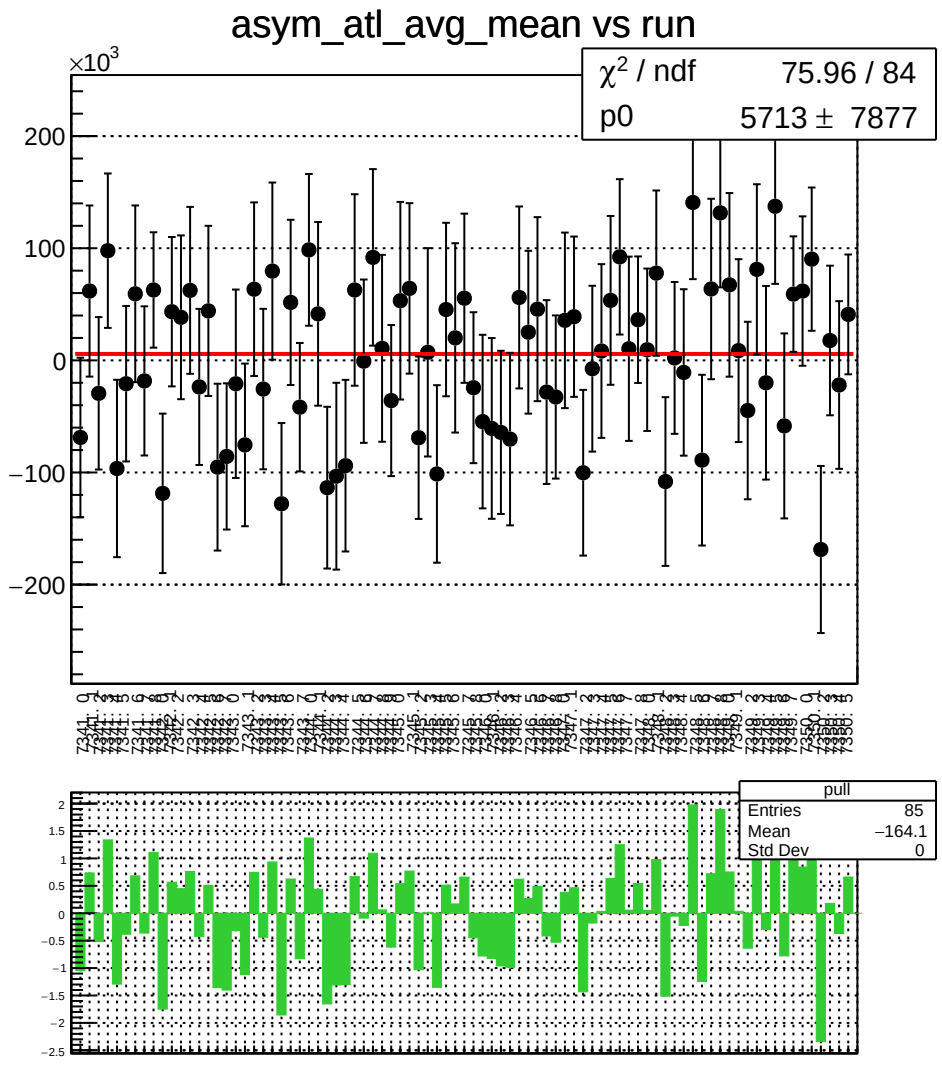

pull1D
Entries 85
Mean 0.004918
Std Dev 0.8954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

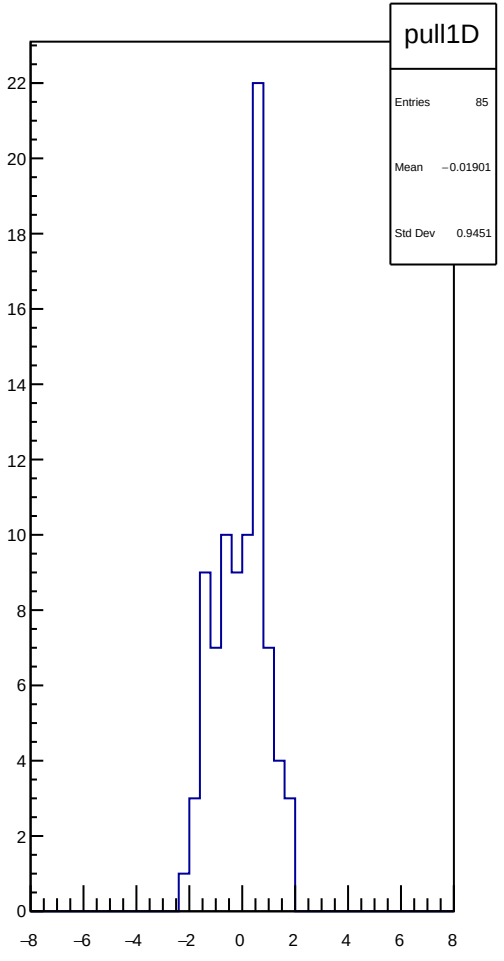

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 5148 / 84
p0 1912 ± 1.506
2500
2400
2300
2200
2100
2000
1900
1800

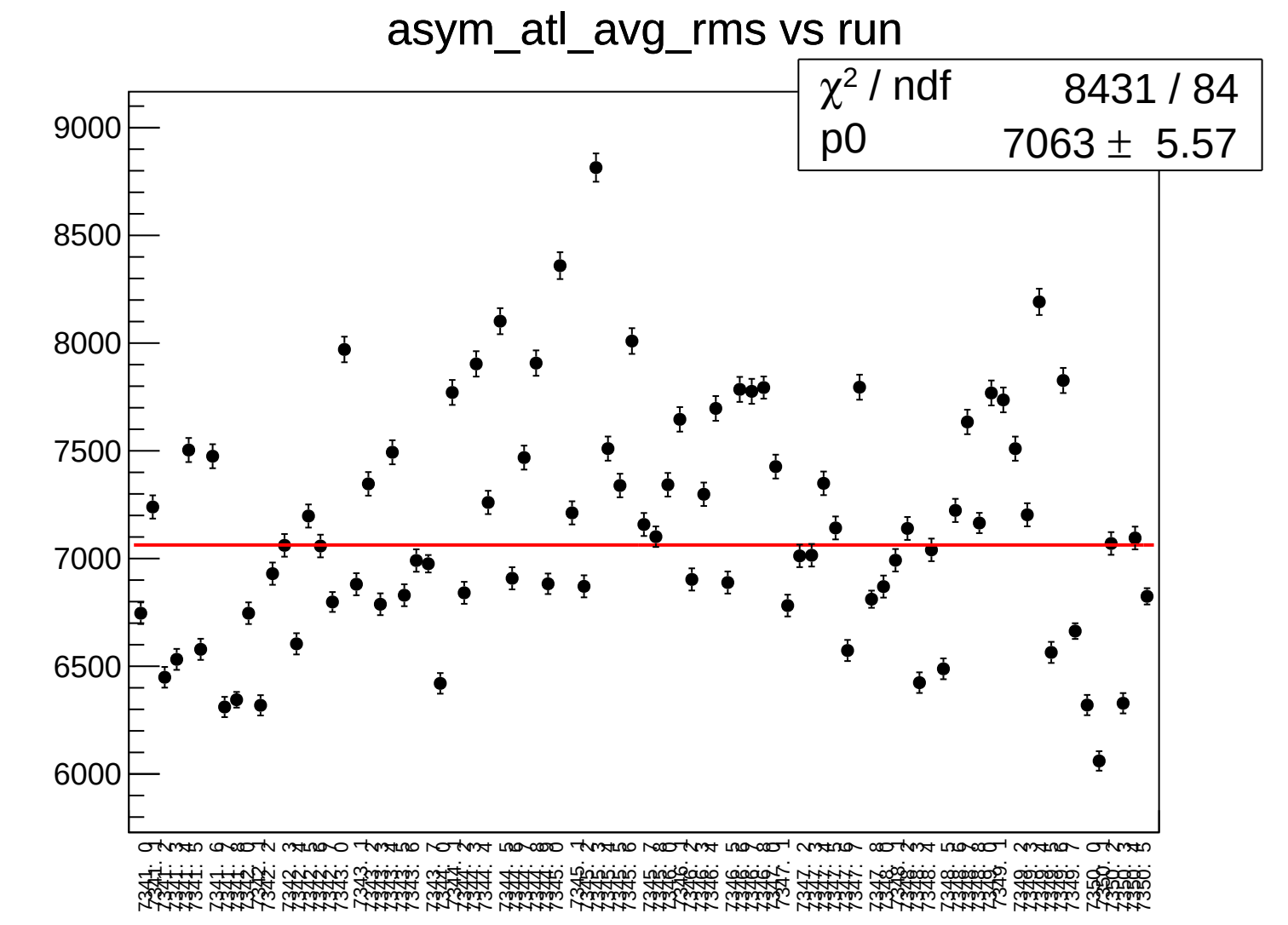

asym_atl_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.42 / 84
p0 −4311 ± 8712
×10³
pull
Entries 85
Mean −114.5
Std Dev 0

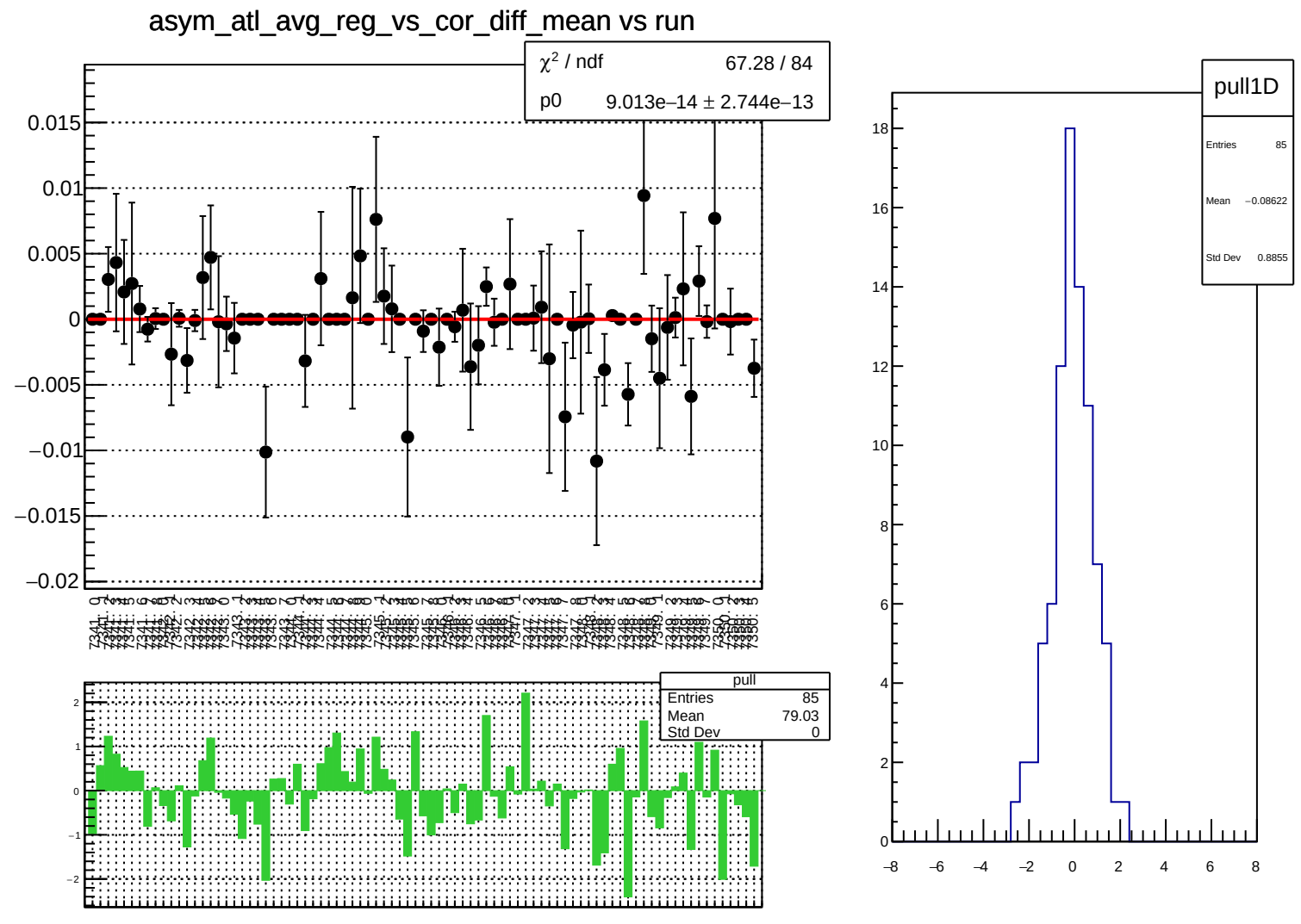

pull1D
Entries 85
Mean 0.0207
Std Dev 0.9291

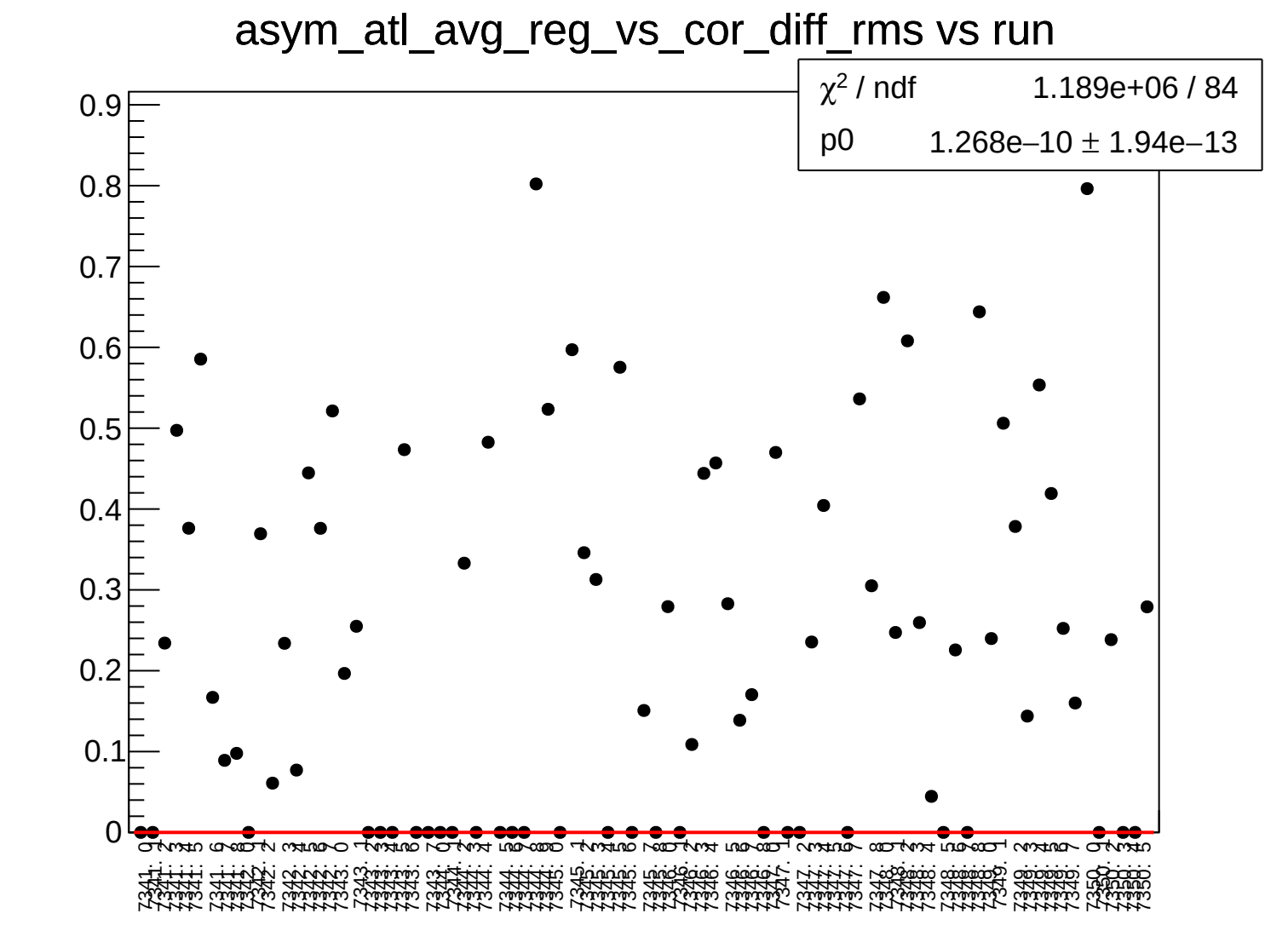

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 7531 / 84
p0 7814 ± 6.16
9500
9000
8500
8000
7500
7000
6500

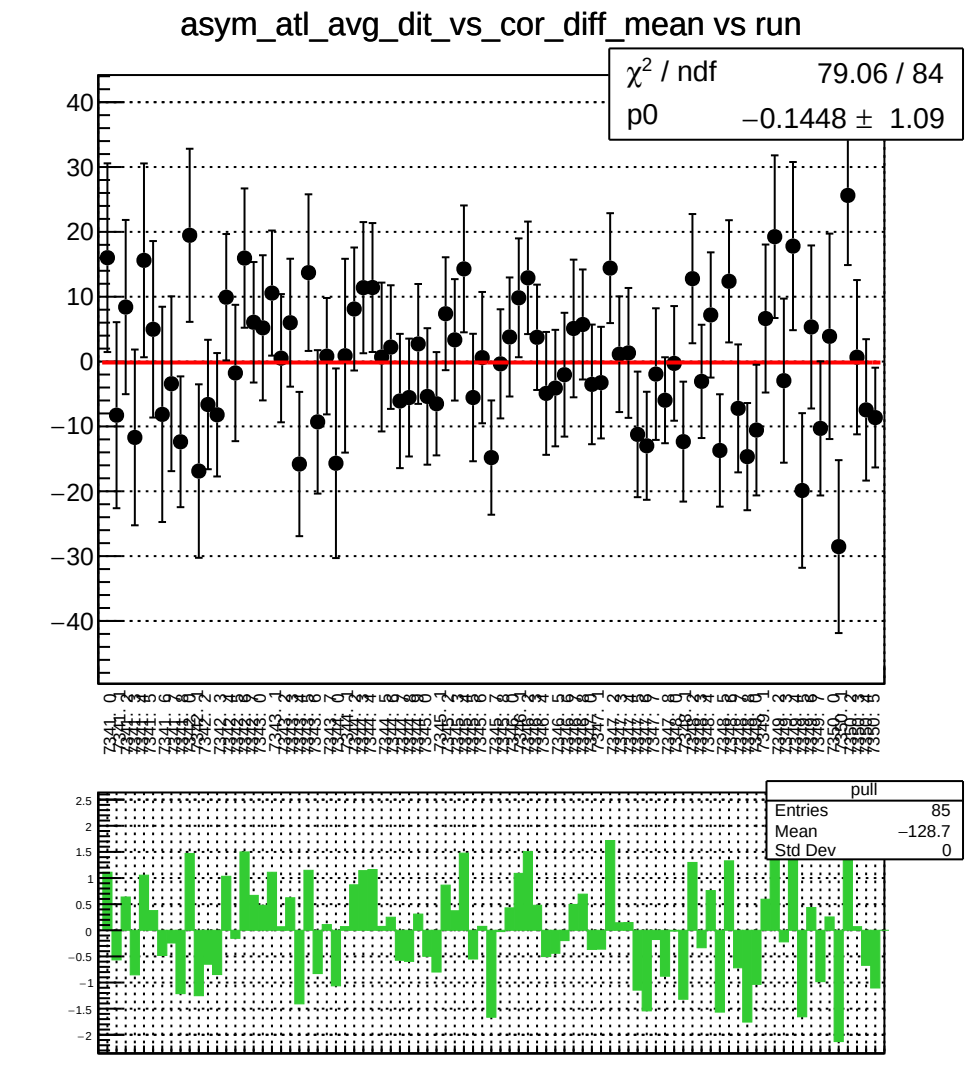

asym_atl_avg_mean vs run
×10^3
χ² / ndf 75.96 / 84
p0 5713 ± 7877
200
100
0
−100
−200
pull
Entries 85
Mean −164.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

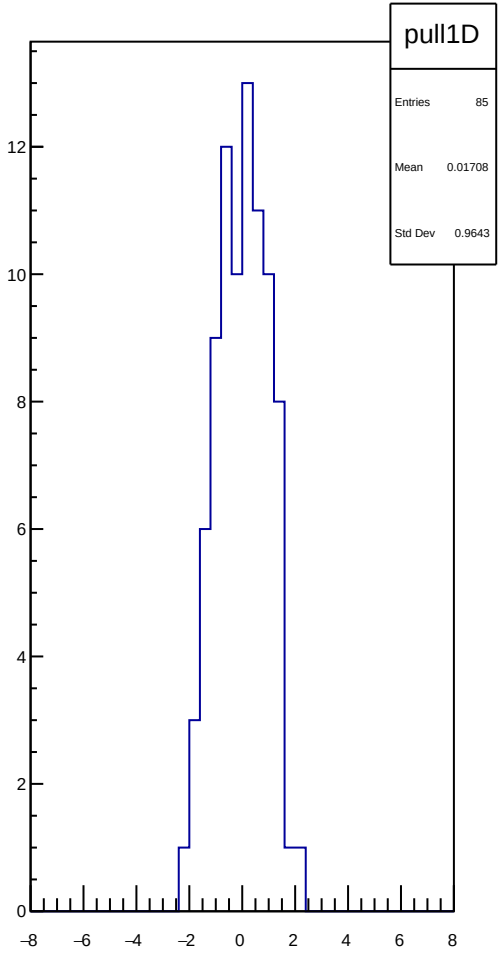

pull1D
Entries 85
Mean −0.01901
Std Dev 0.9451
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

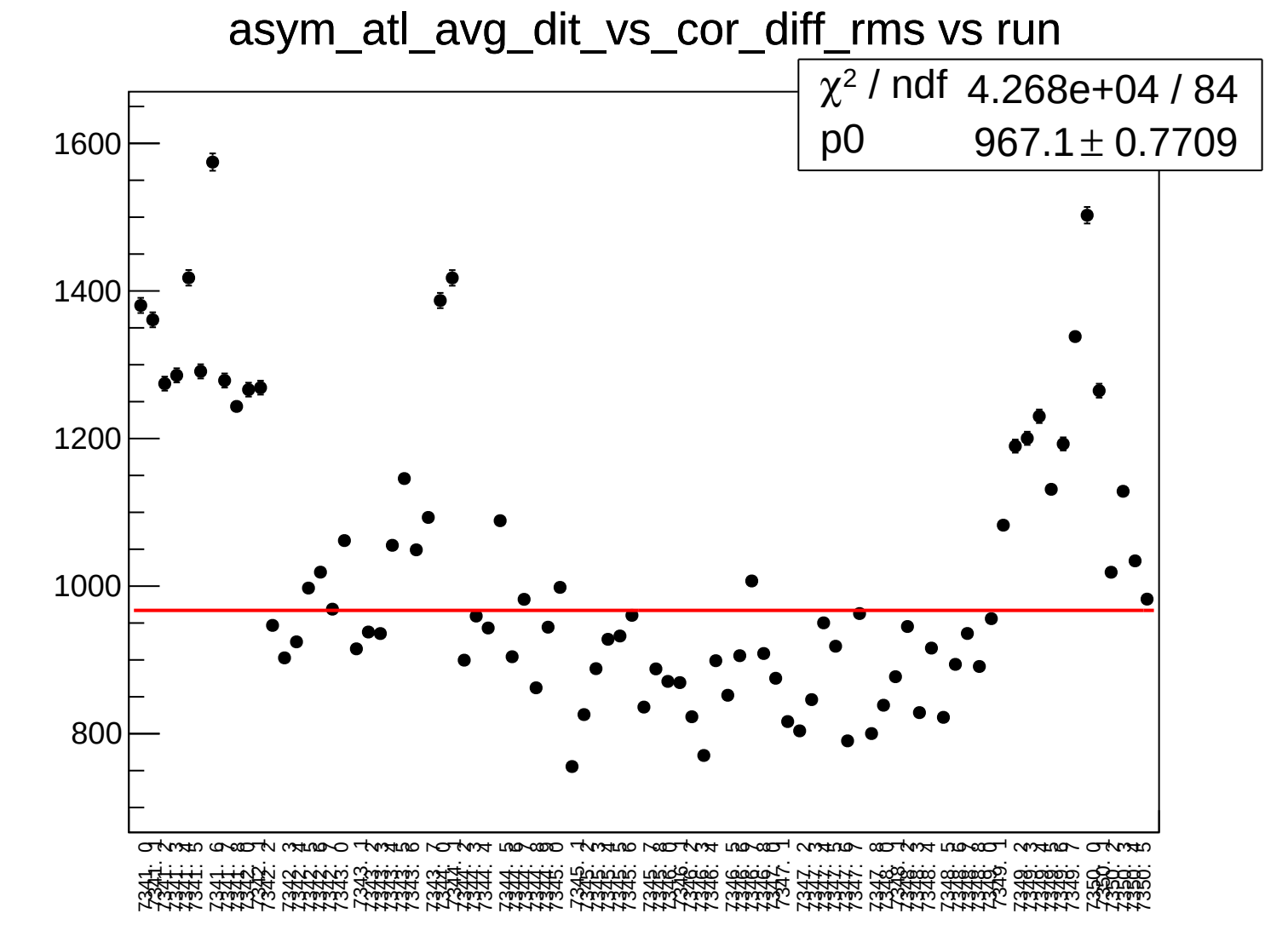

asym_atl_avg_rms vs run
χ² / ndf 8431 / 84
p0 7063 ± 5.57
9000
8500
8000
7500
7000
6500
6000

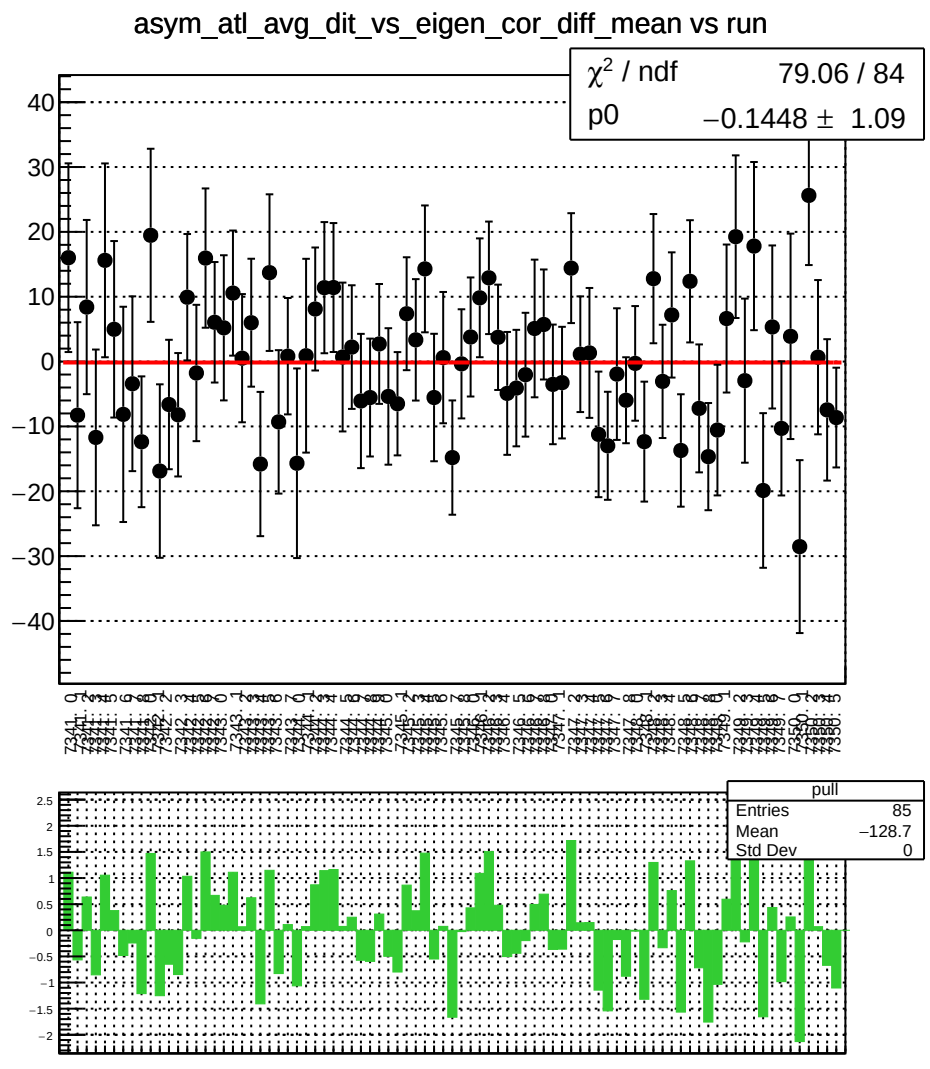

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.28 / 84
p0 9.013e−14 ± 2.744e−13
pull
Entries 85
Mean 79.03
Std Dev 0
pull1D
Entries 85
Mean −0.08622
Std Dev 0.8855

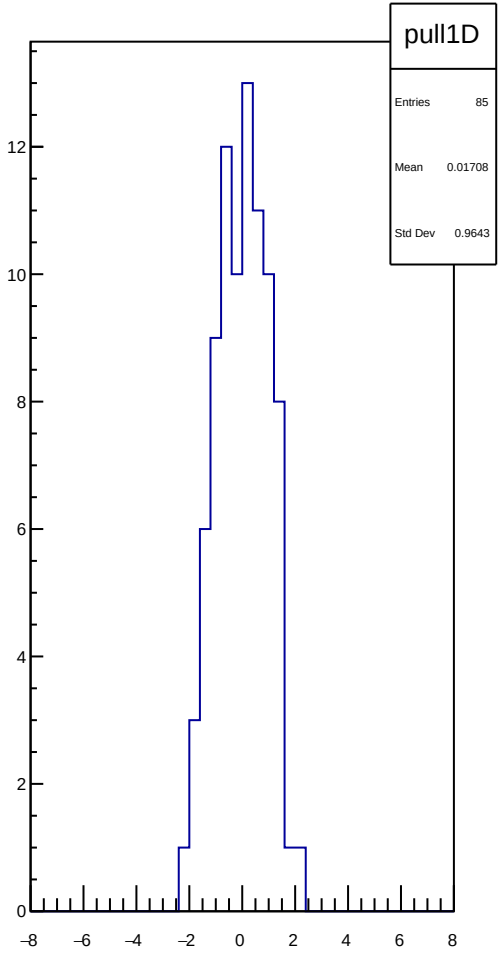

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.189e+06 / 84
p0 1.268e−10 ± 1.94e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

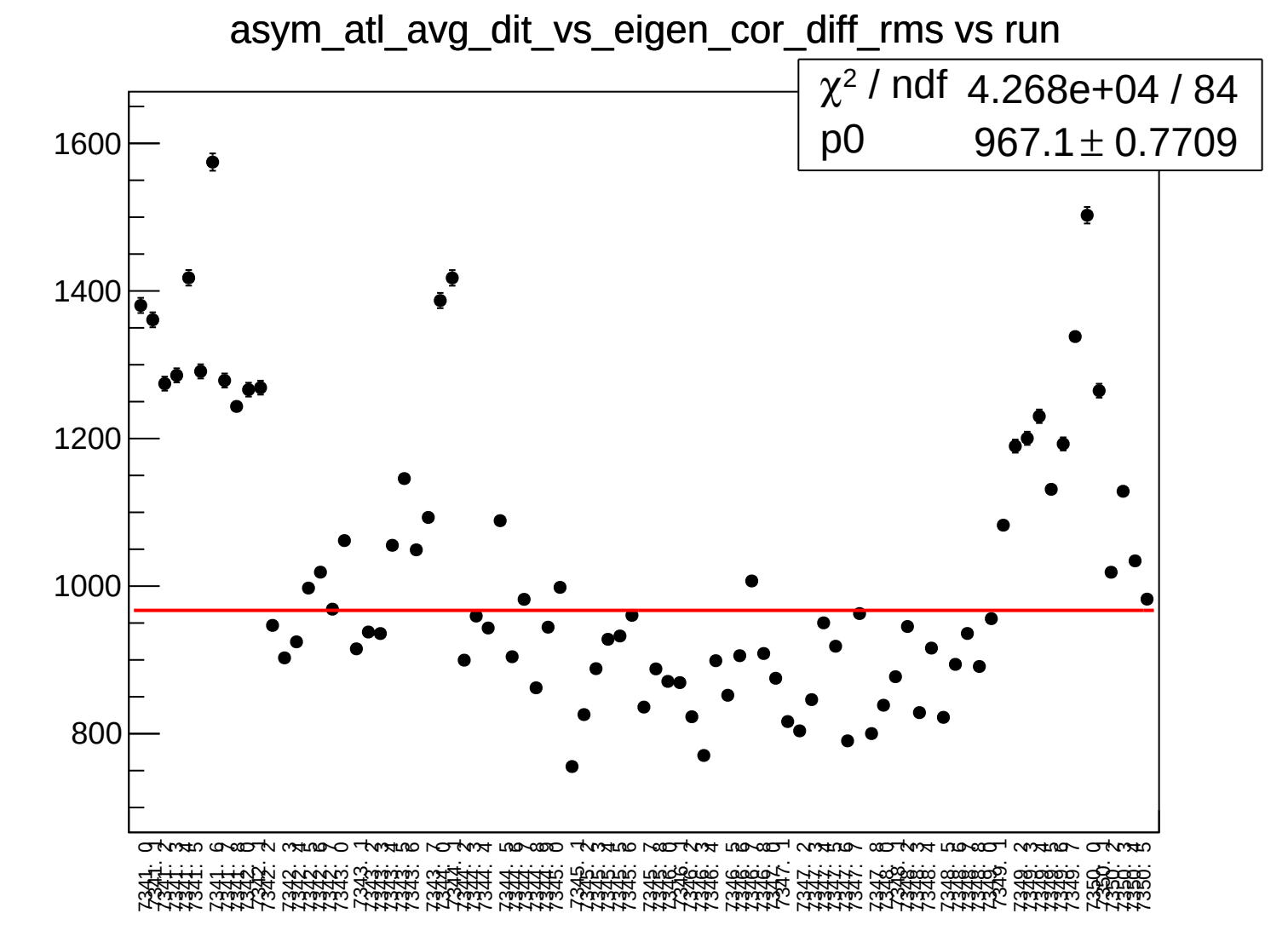

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.06 / 84
p0 −0.1448 ± 1.09
pull
Entries 85
Mean −128.7
Std Dev 0

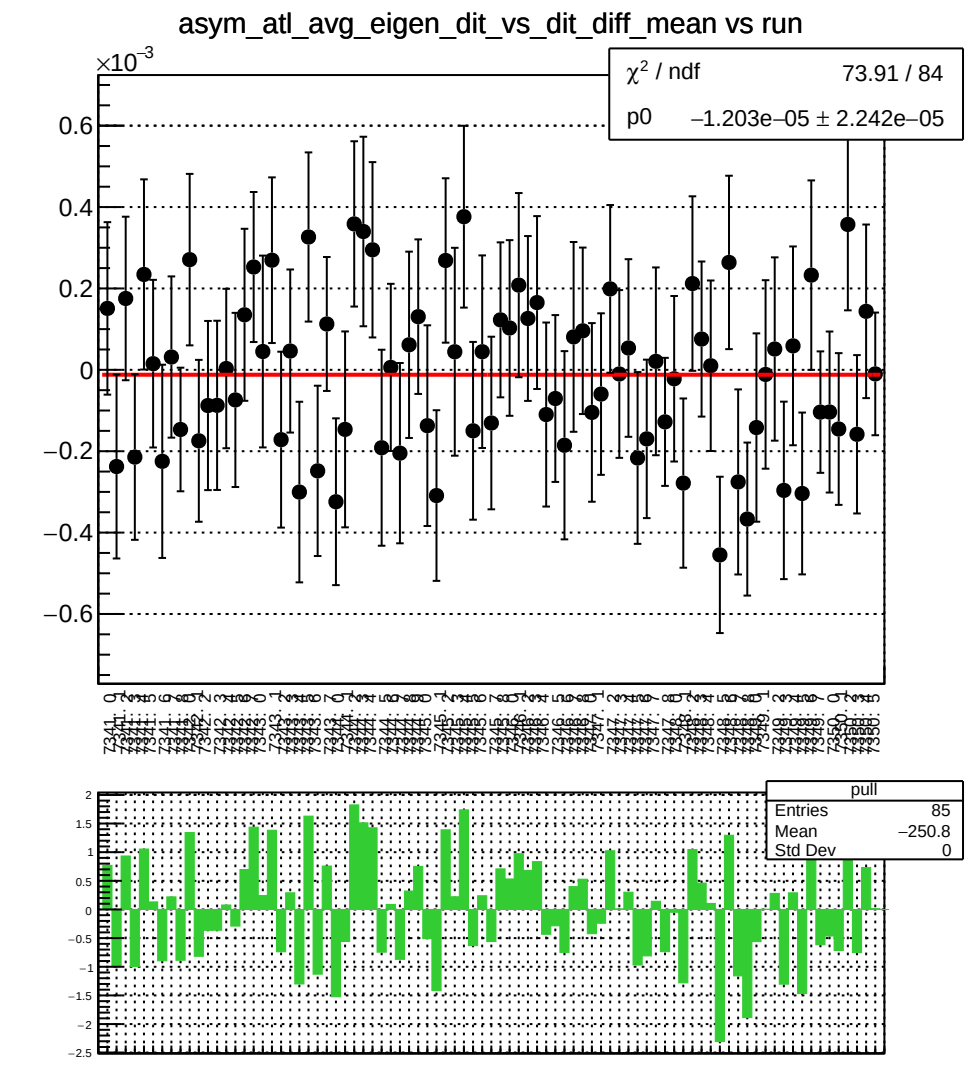

pull1D
Entries 85
Mean 0.01708
Std Dev 0.9643

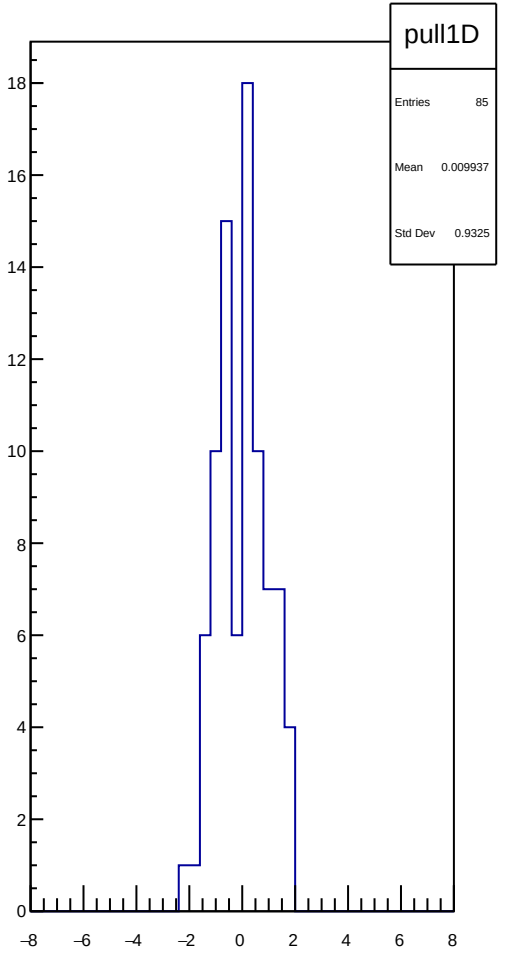

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.268e+04 / 84
p0 967.1 ± 0.7709
1600
1400
1200
1000
800

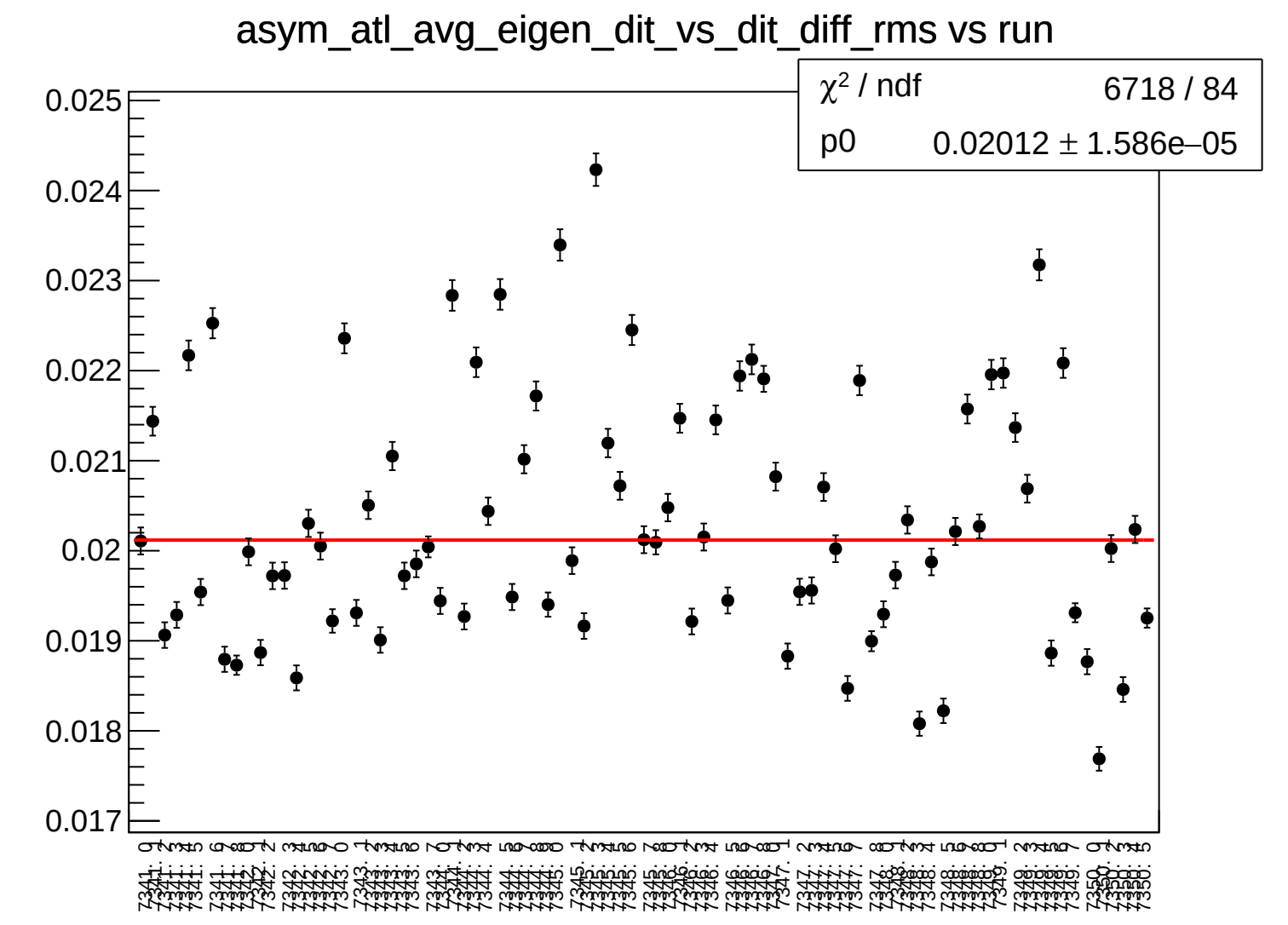

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.06 / 84
p0 −0.1448 ± 1.09
pull
Entries 85
Mean −128.7
Std Dev 0

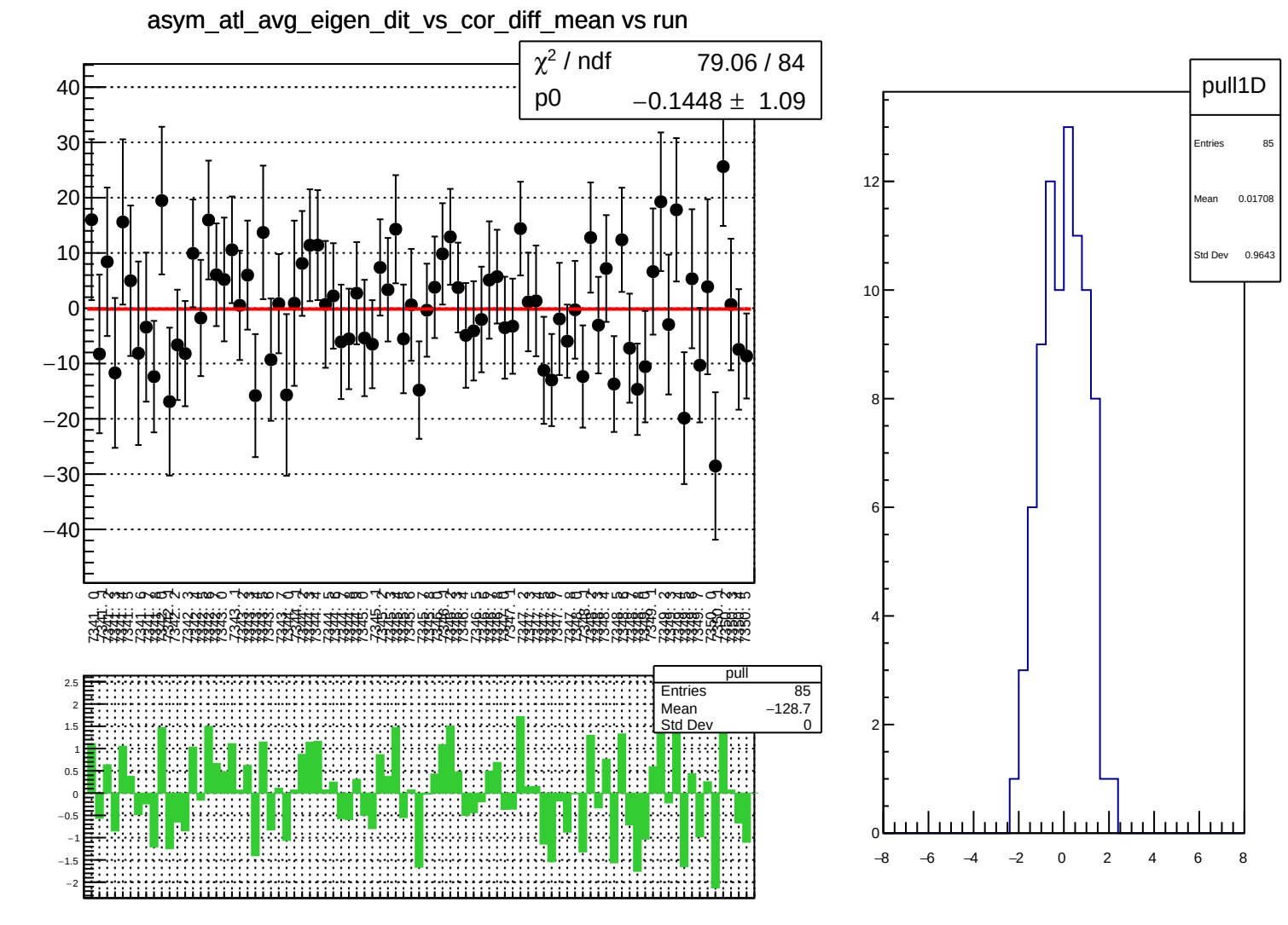

pull1D
Entries 85
Mean 0.01708
Std Dev 0.9643

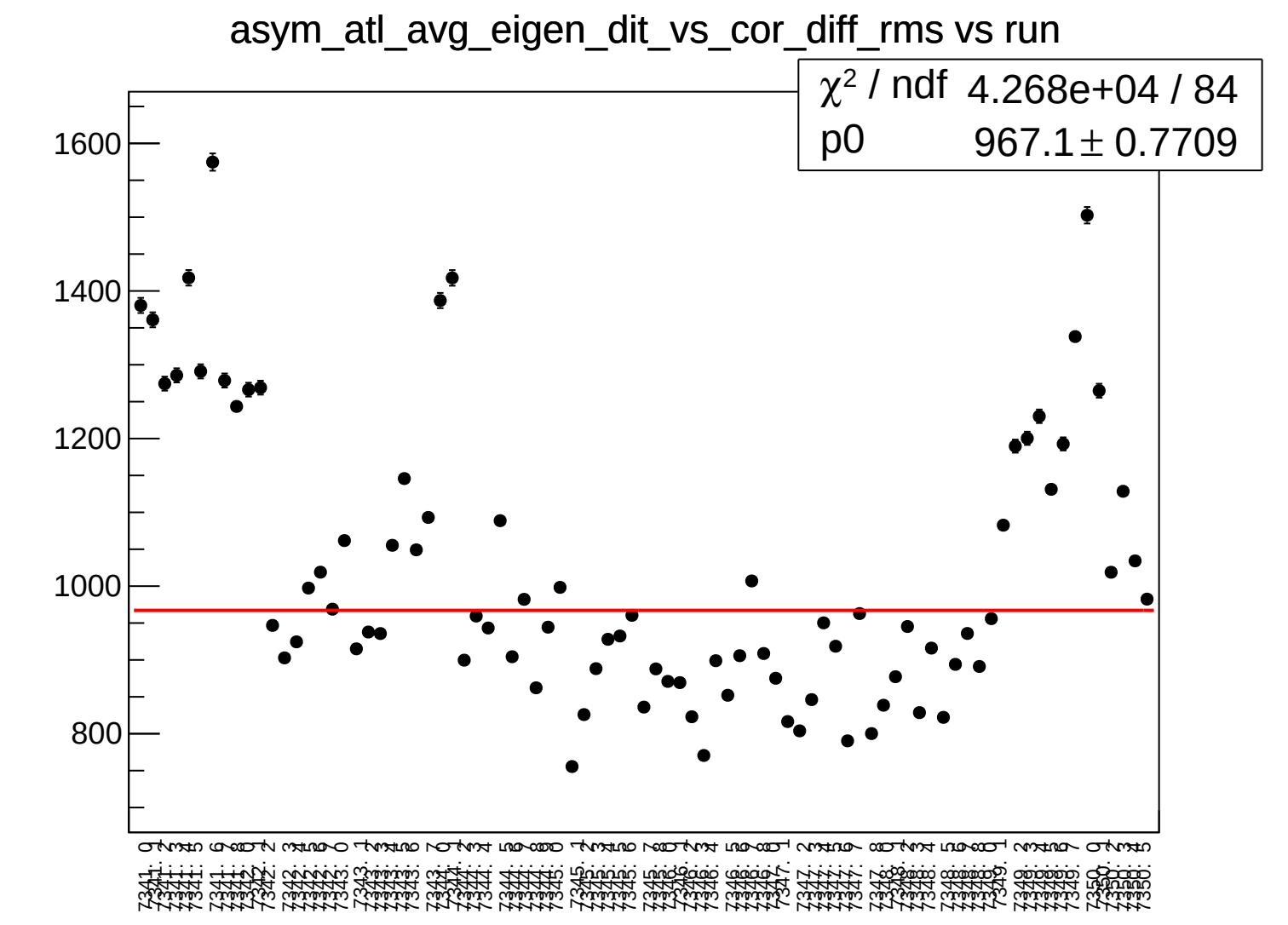

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.268e+04 / 84
p0 967.1 ± 0.7709
1600
1400
1200
1000
800

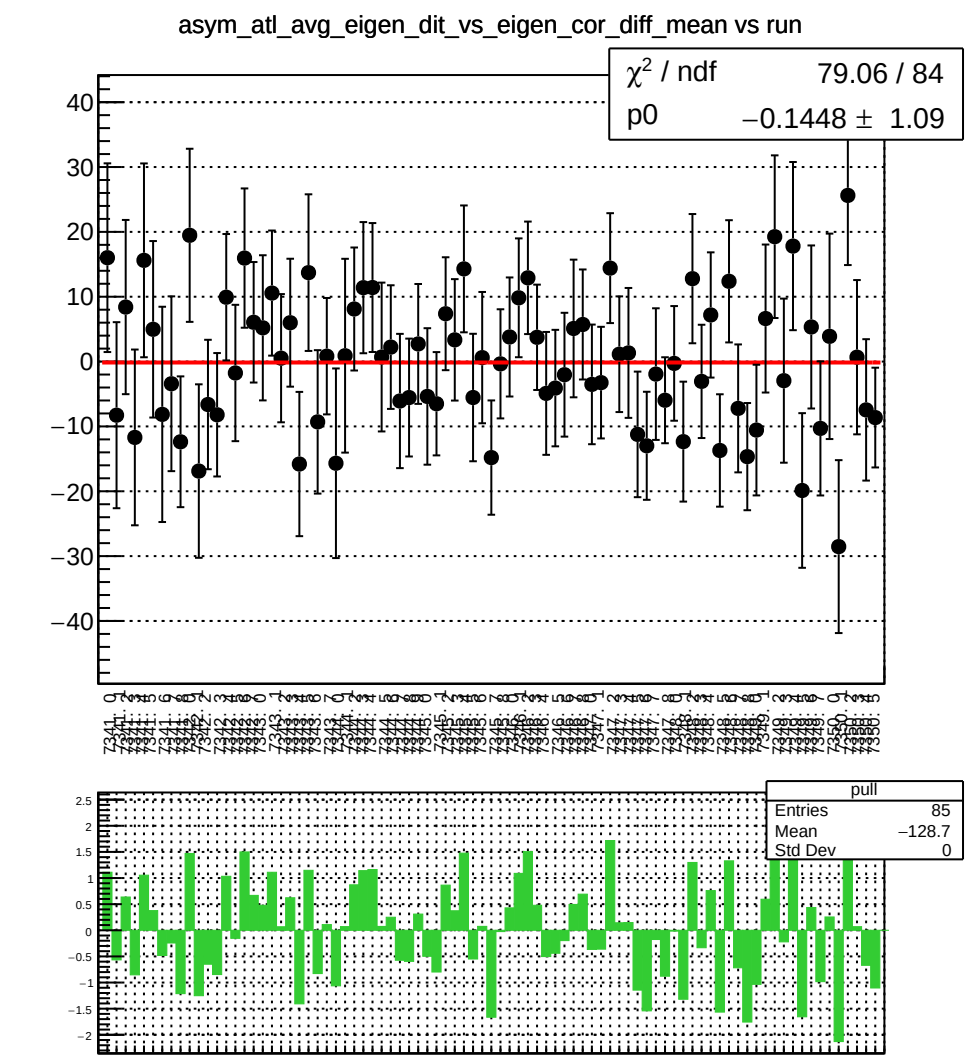

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.91 / 84
p0 −1.203e−05 ± 2.242e−05
pull
Entries 85
Mean −250.8
Std Dev 0

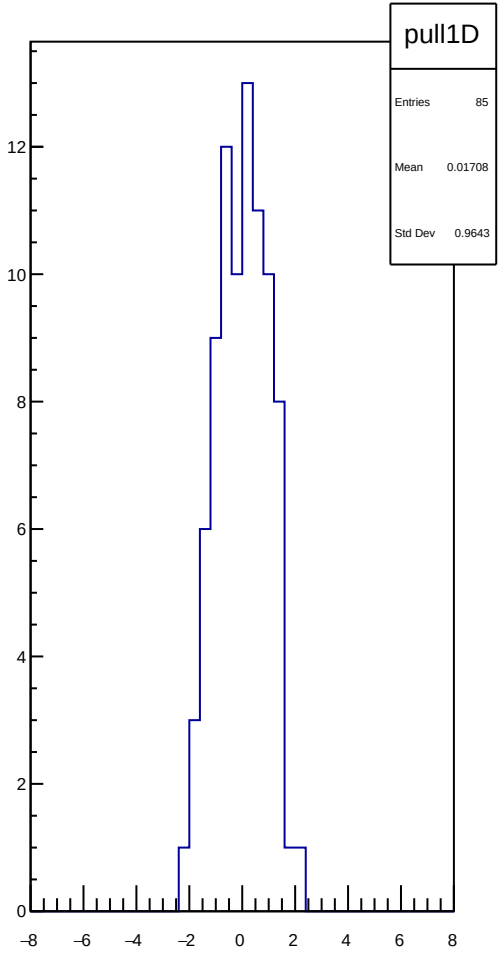

pull1D
Entries 85
Mean 0.009937
Std Dev 0.9325

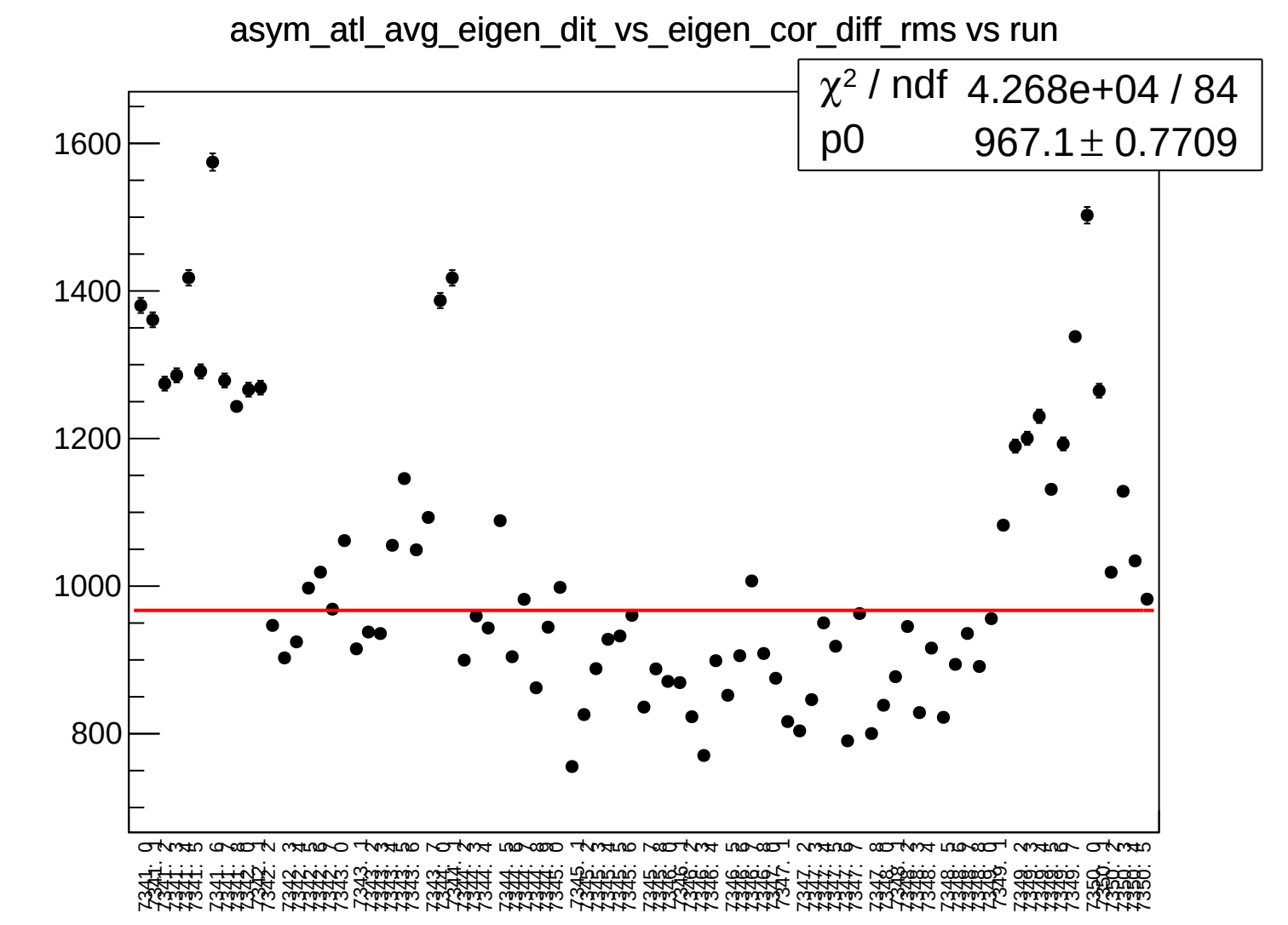

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6718 / 84
p0 0.02012 ± 1.586e–05
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

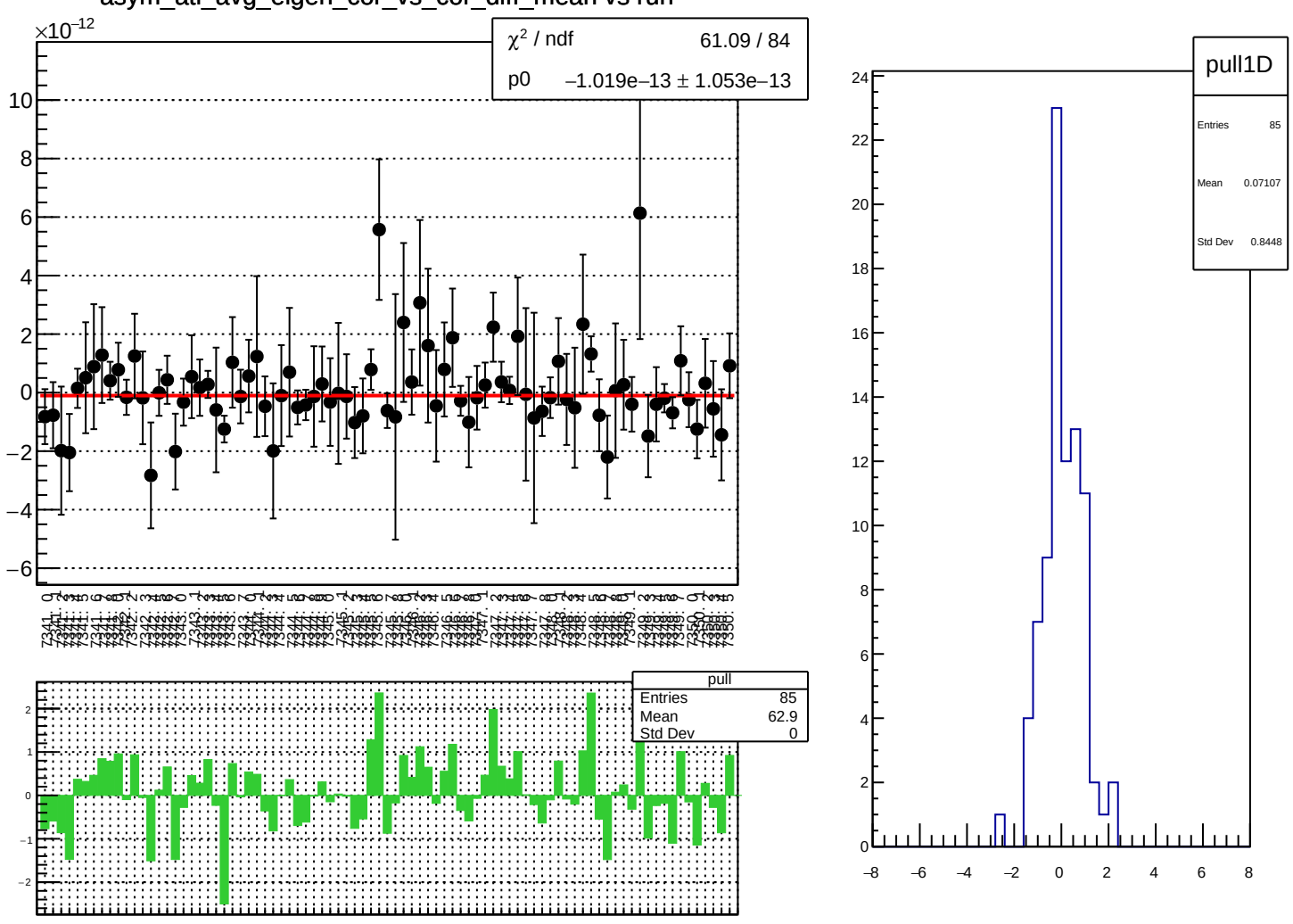

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.06 / 84
p0 −0.1448 ± 1.09
pull
Entries 85
Mean −128.7
Std Dev 0
pull1D
Entries 85
Mean 0.01708
Std Dev 0.9643

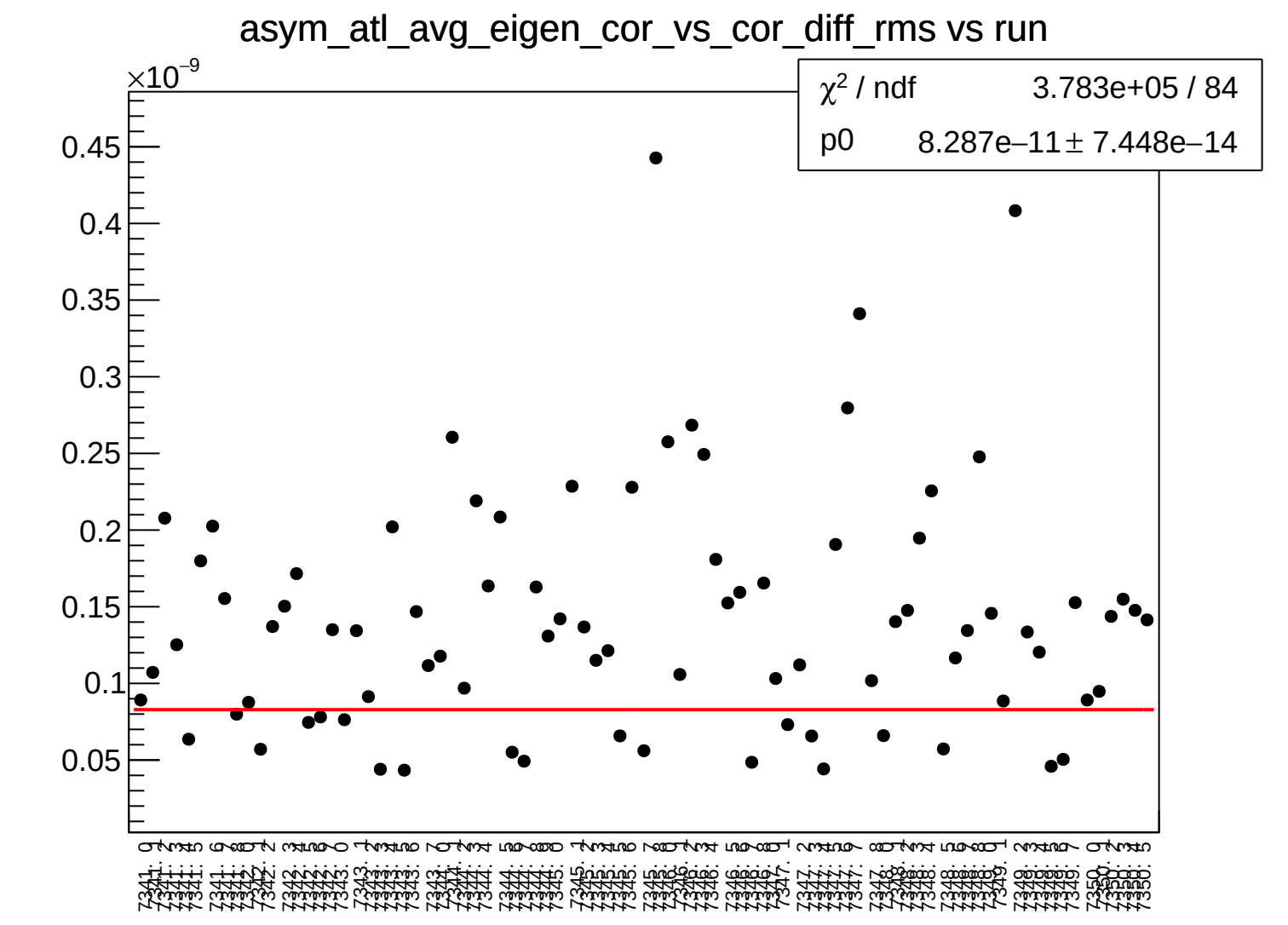

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.268e+04 / 84
p0 967.1 ± 0.7709
1600
1400
1200
1000
800

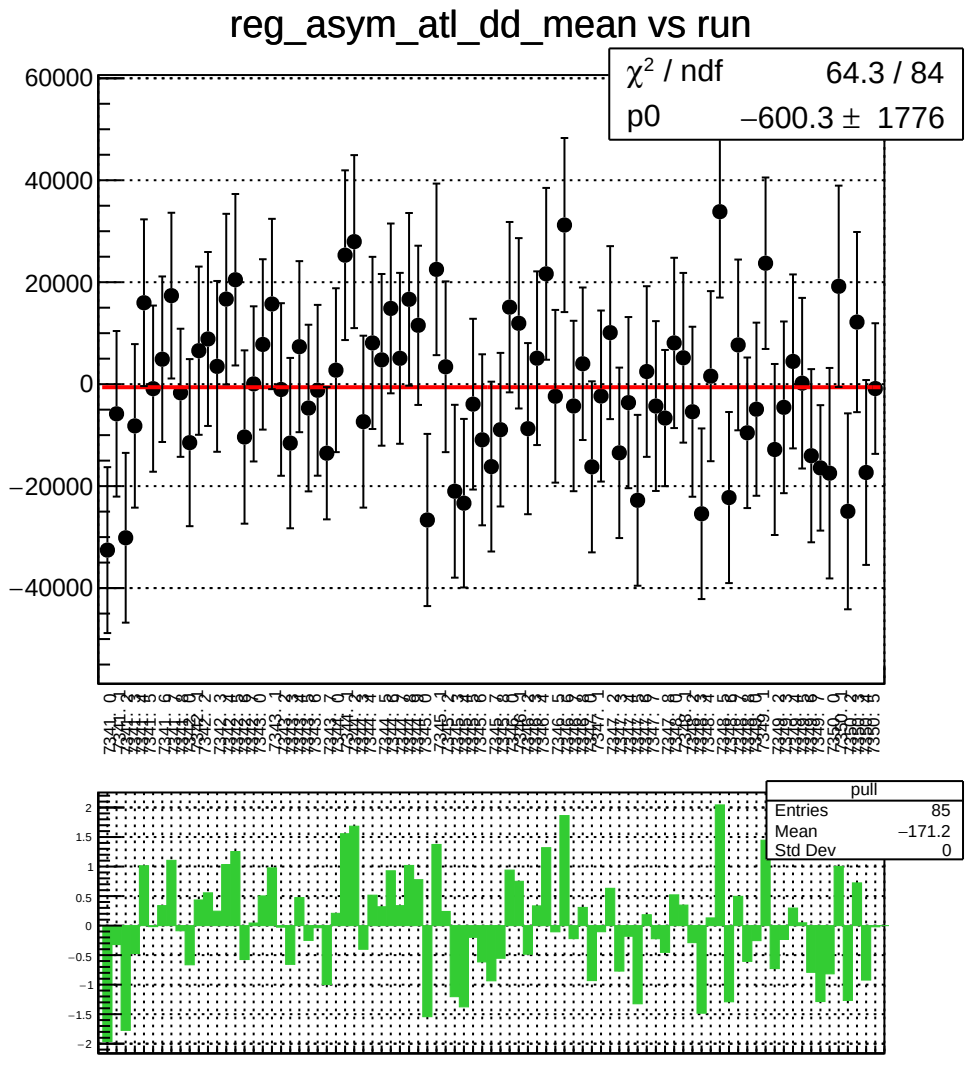

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.06 / 84
p0 −0.1448 ± 1.09
pull
Entries 85
Mean −128.7
Std Dev 0

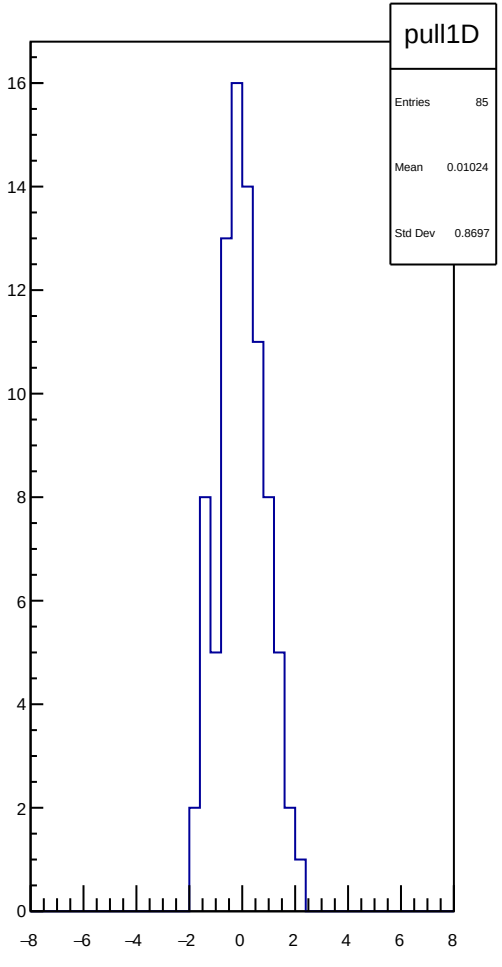

pull1D
Entries 85
Mean 0.01708
Std Dev 0.9643

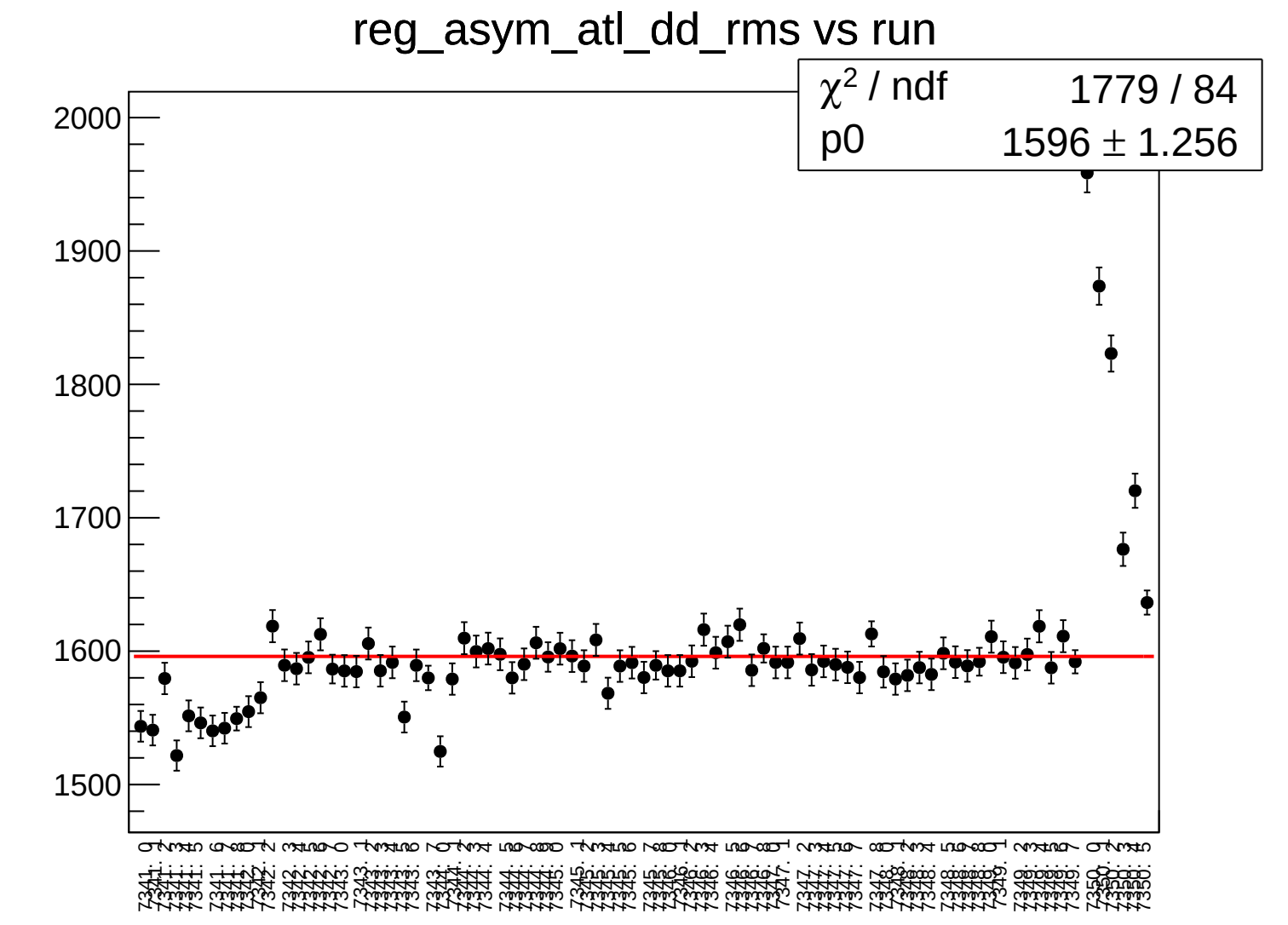

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.268e+04 / 84
p0 967.1 ± 0.7709
1600
1400
1200
1000
800

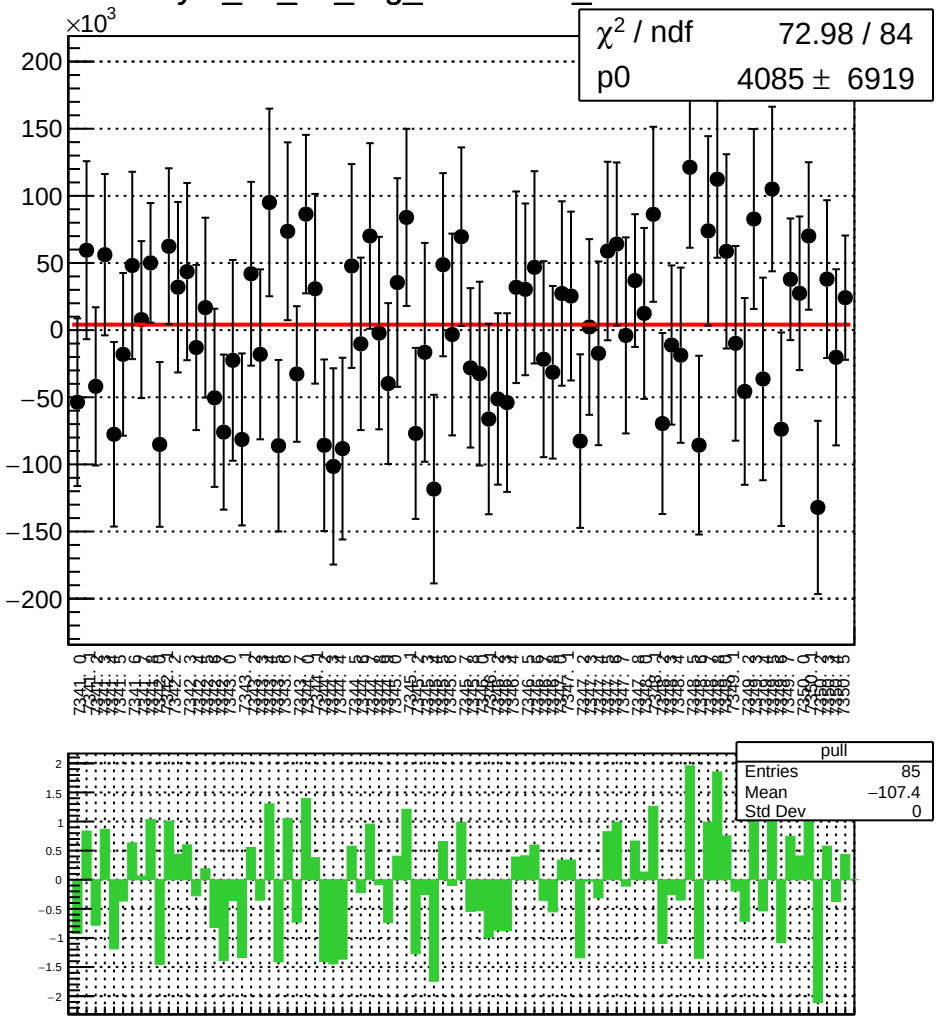

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.09 / 84
p0 −1.019e−13 ± 1.053e−13
pull
Entries 85
Mean 62.9
Std Dev 0
pull1D
Entries 85
Mean 0.07107
Std Dev 0.8448

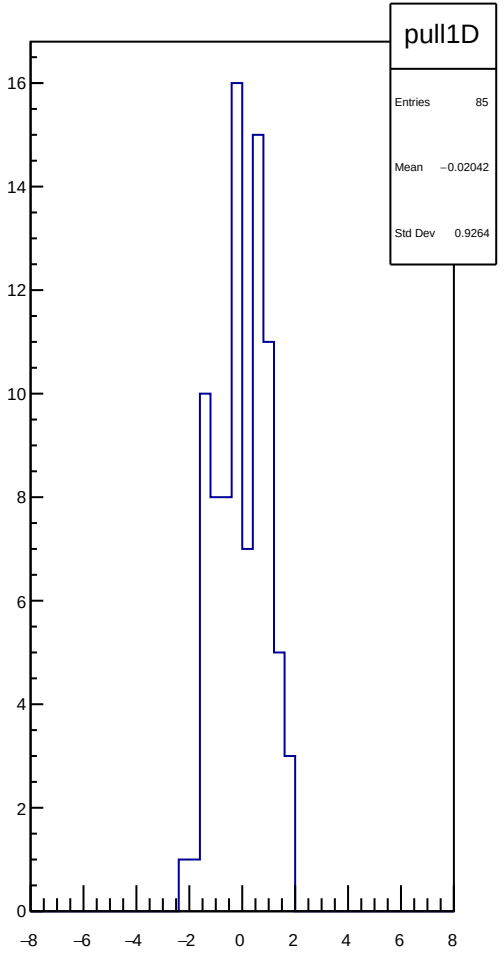

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.783e+05 / 84
p0 8.287e−11 ± 7.448e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

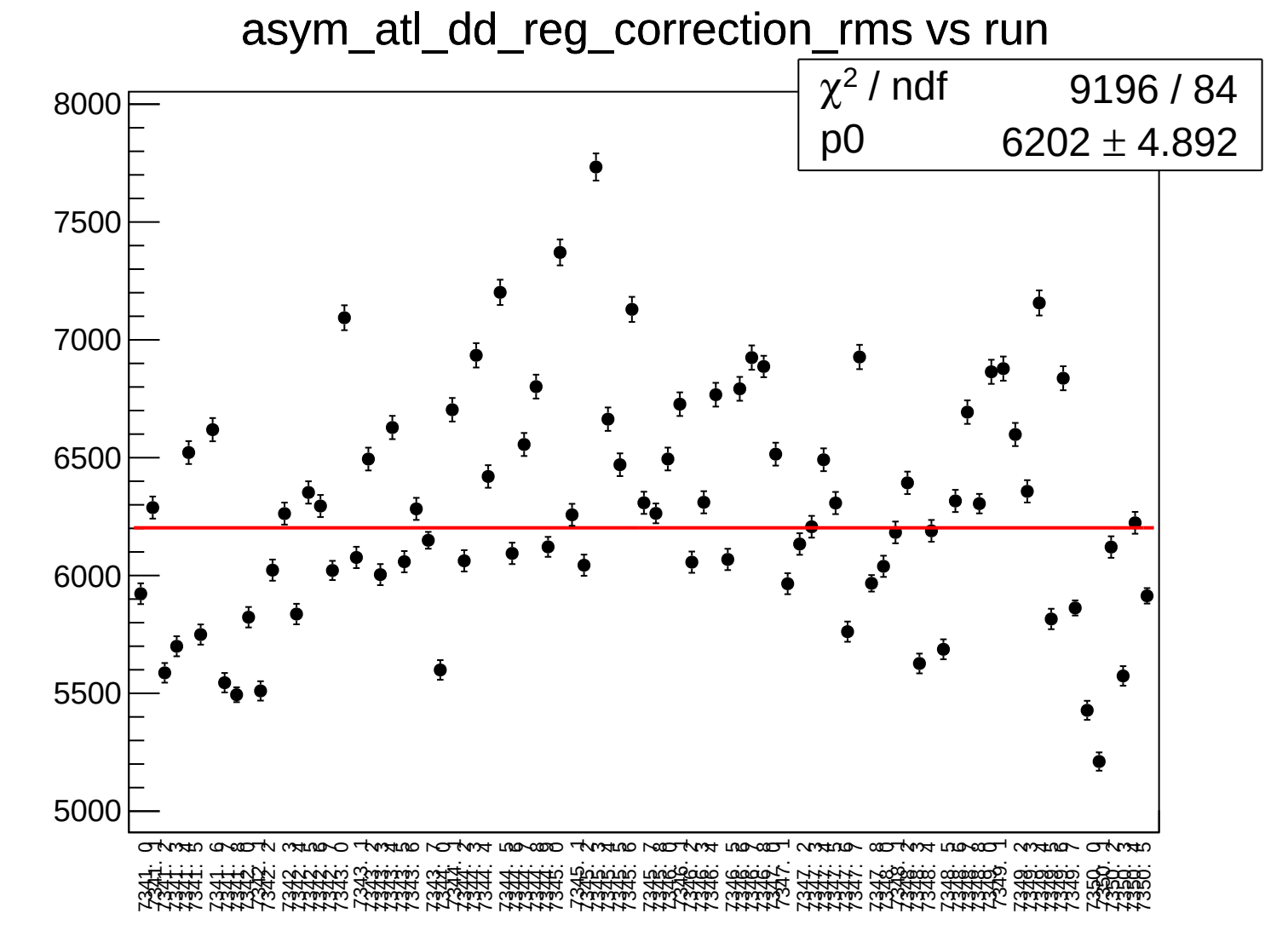

reg_asym_atl_dd_mean vs run
χ² / ndf 64.3 / 84
p0 −600.3 ± 1776
pull
Entries 85
Mean −171.2
Std Dev 0

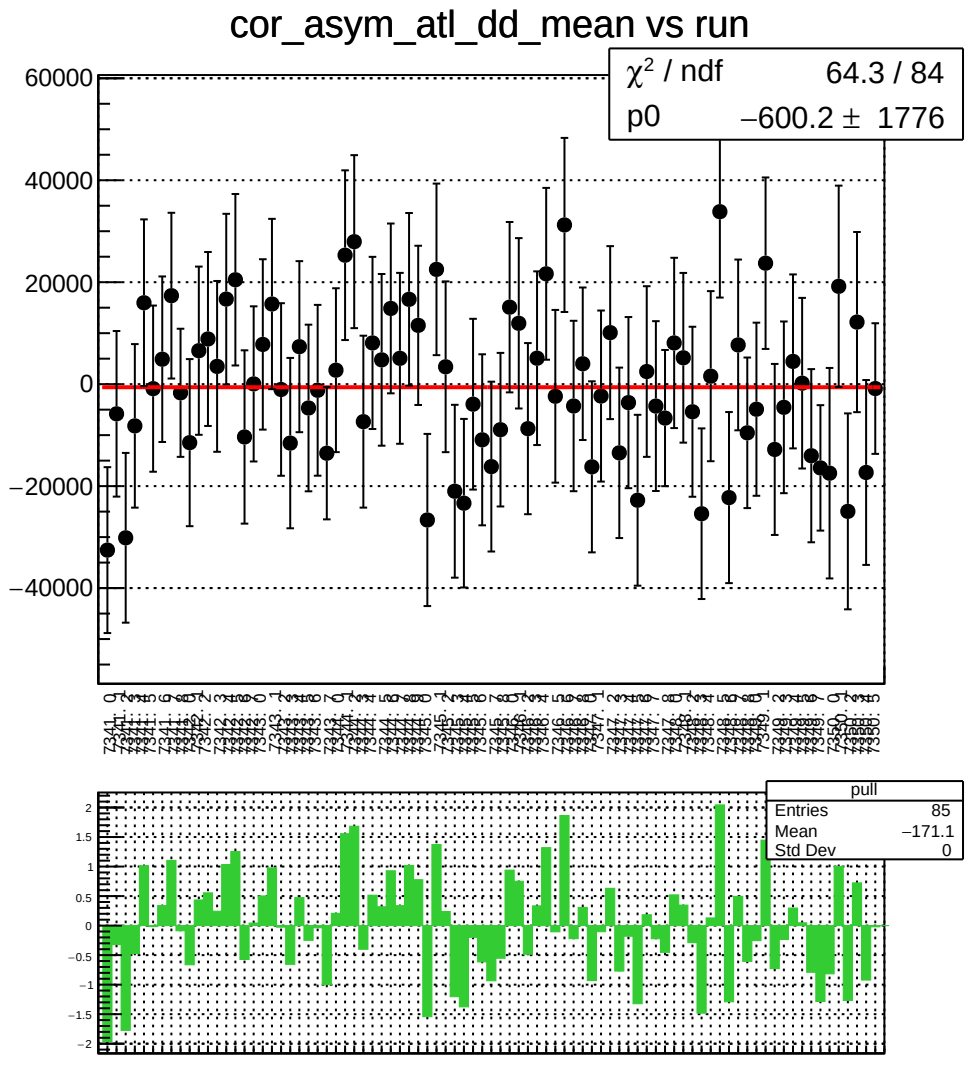

pull1D
Entries 85
Mean 0.01024
Std Dev 0.8697

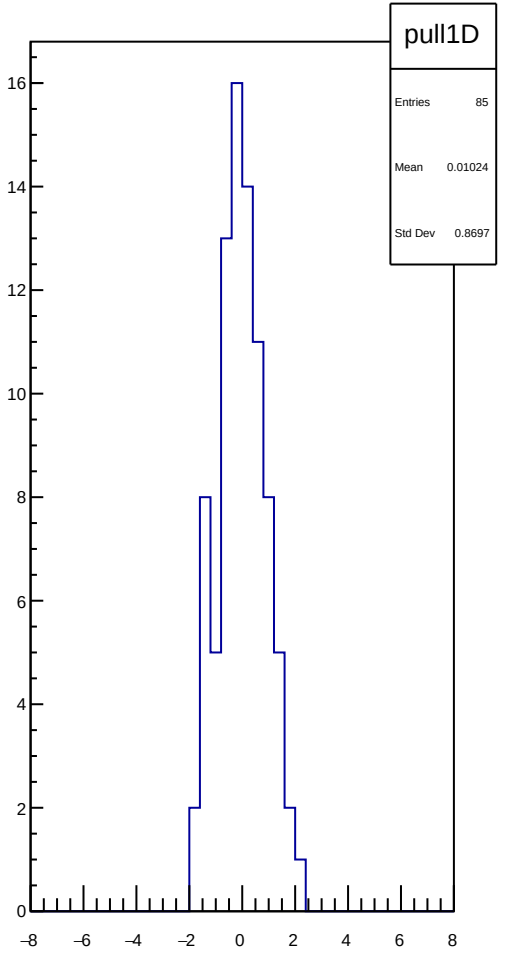

reg_asym_atl_dd_rms vs run
χ² / ndf 1779 / 84
p0 1596 ± 1.256
2000
1900
1800
1700
1600
1500

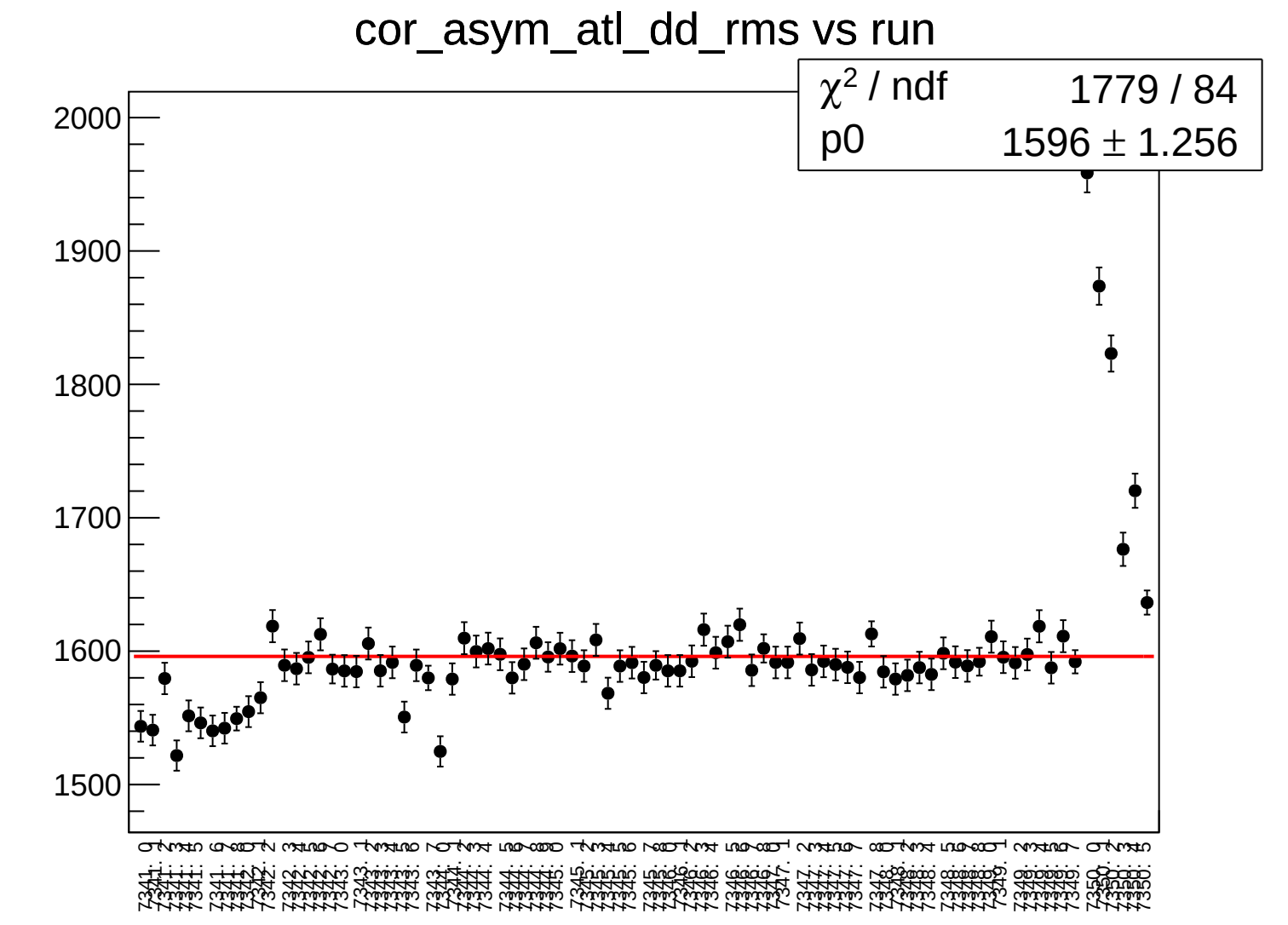

asym_atl_dd_reg_correction_mean vs run
χ^2 / ndf 72.98 / 84
p0 4085 ± 6919
×10^3
pull
Entries 85
Mean −107.4
Std Dev 0

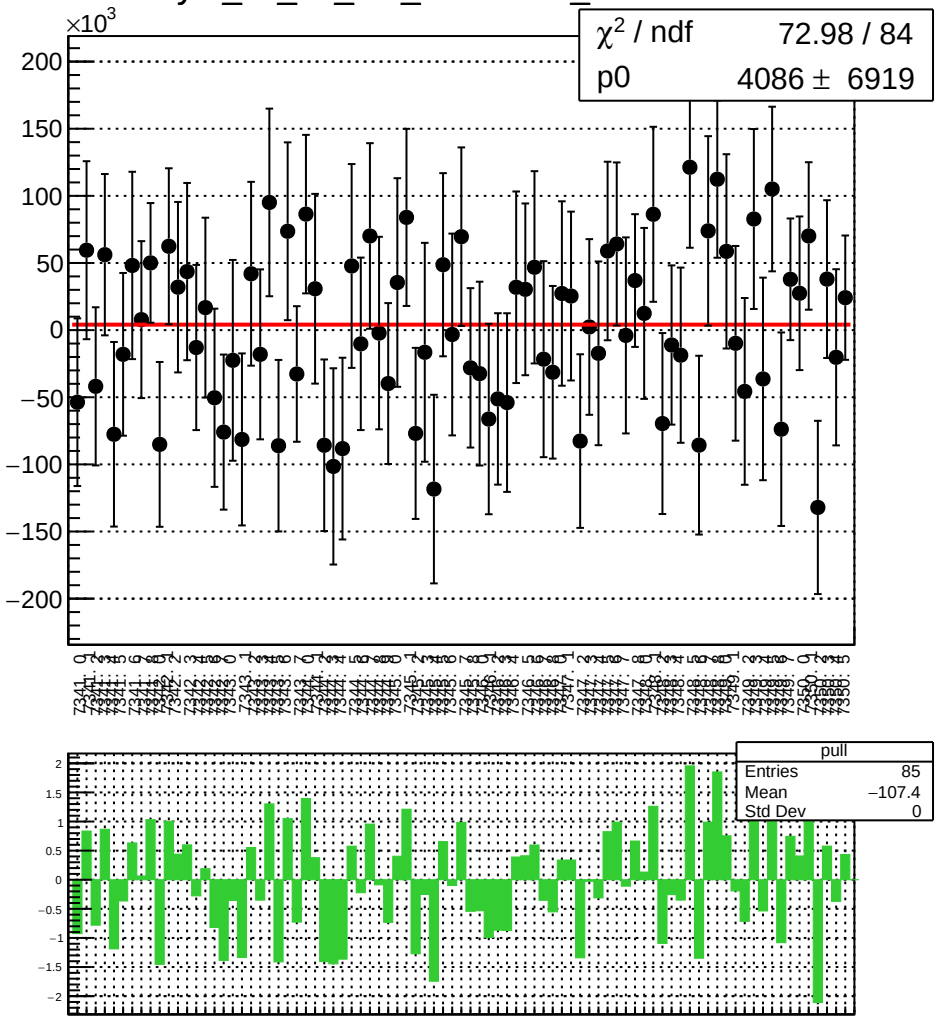

pull1D
Entries 85
Mean −0.02042
Std Dev 0.9264

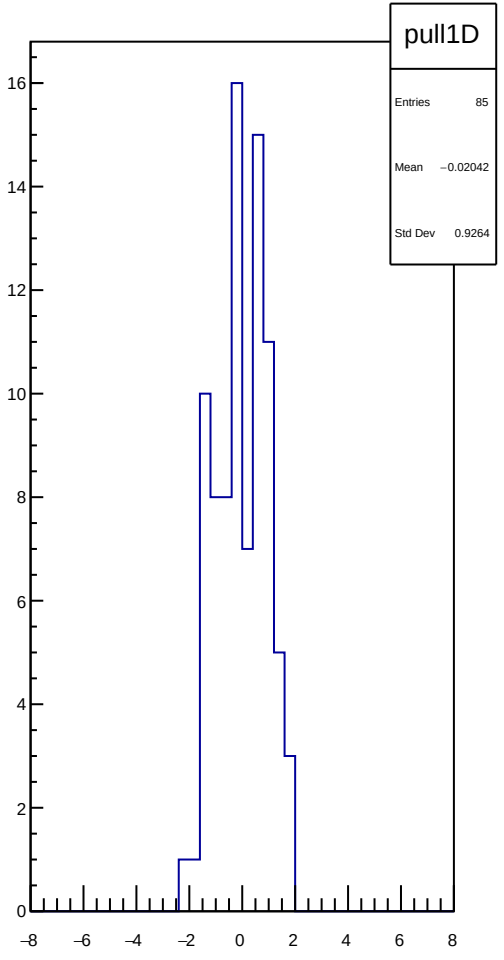

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 9196 / 84
p0 6202 ± 4.892
8000
7500
7000
6500
6000
5500
5000

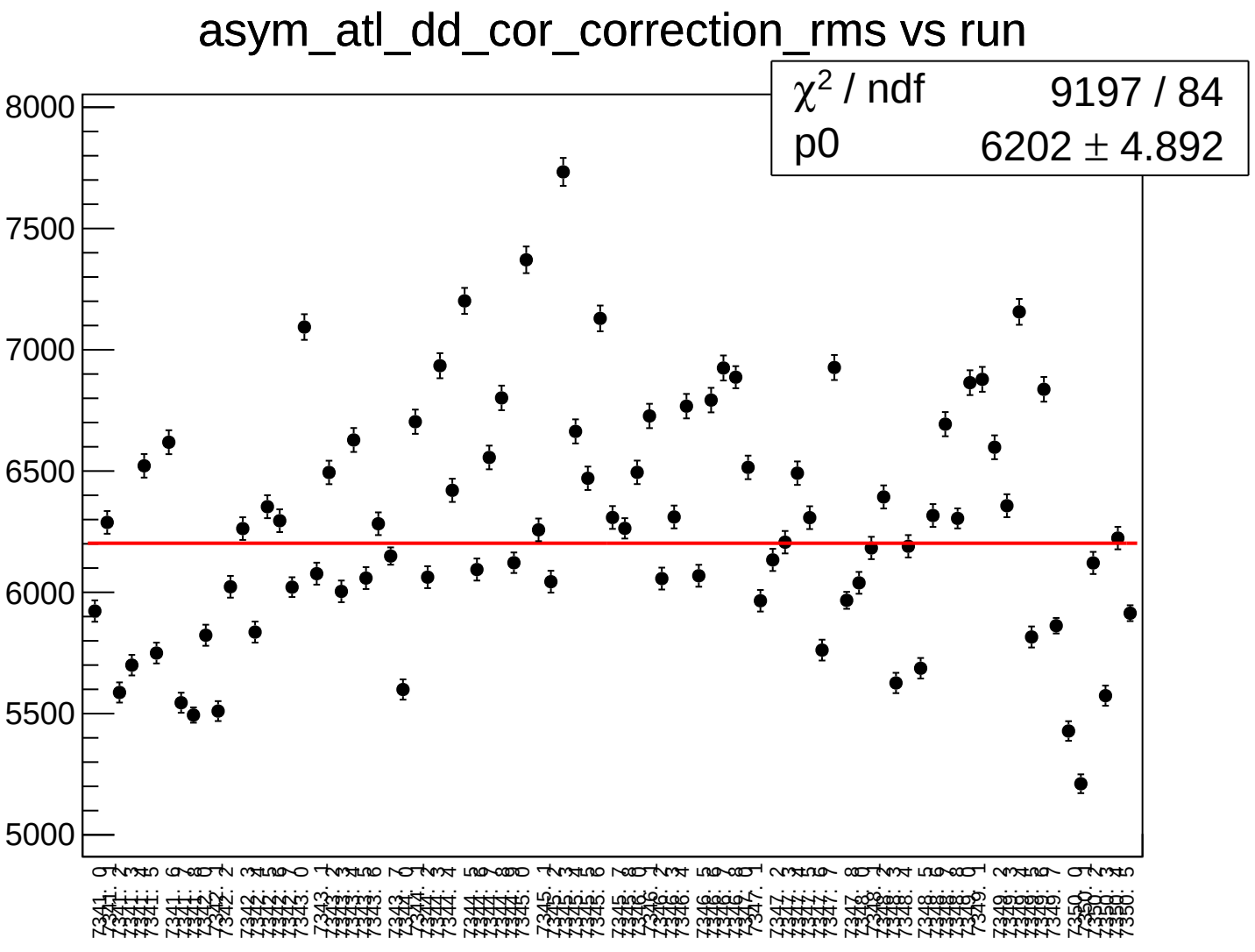

cor_asym_atl_dd_mean vs run
χ² / ndf 64.3 / 84
p0 −600.2 ± 1776
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −171.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

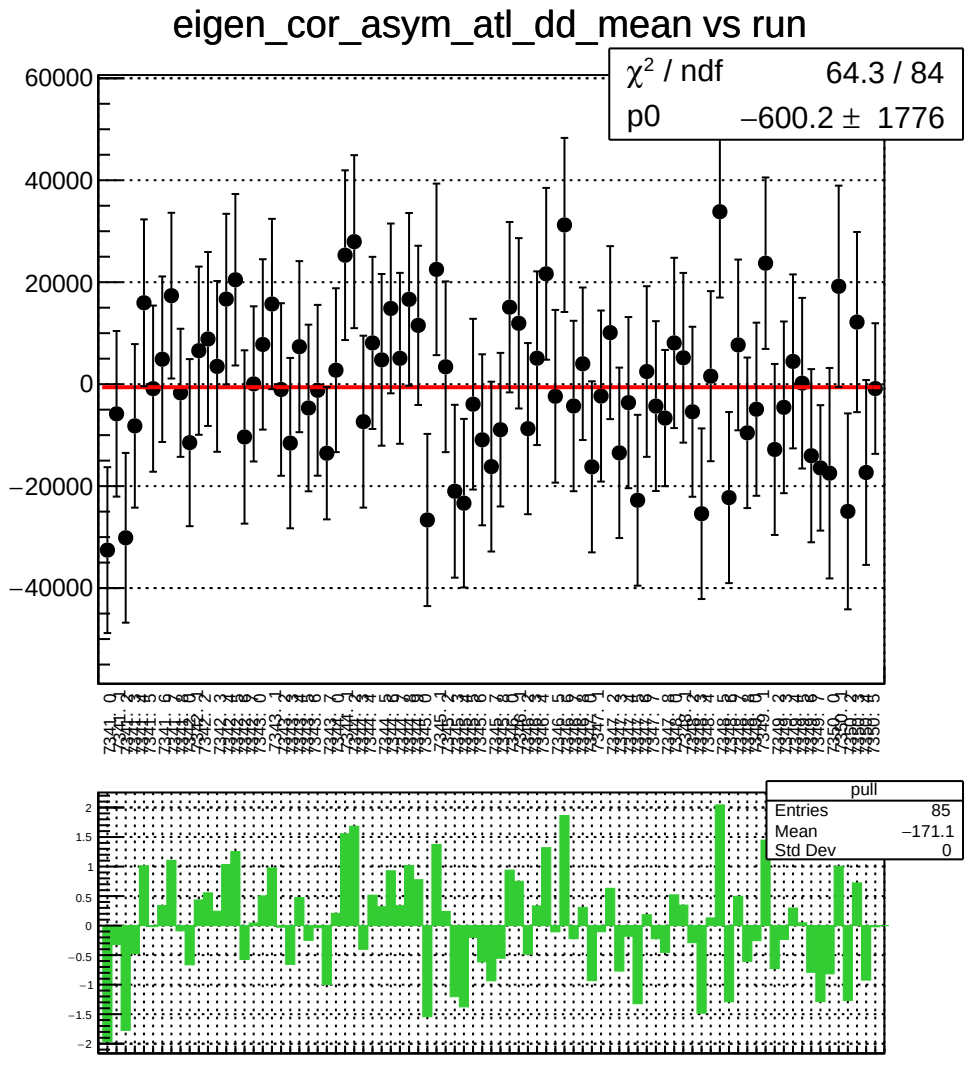

pull1D
Entries 85
Mean 0.01024
Std Dev 0.8697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

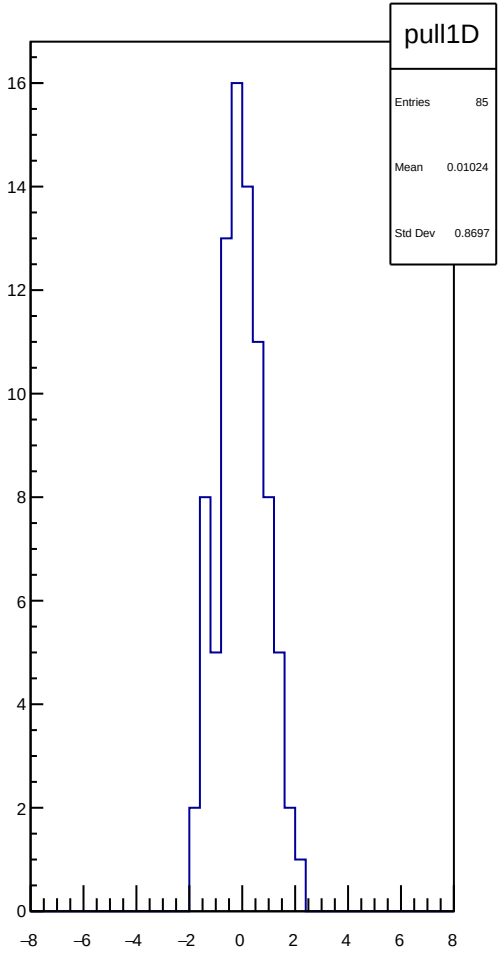

cor_asym_atl_dd_rms vs run
χ^2 / ndf 1779 / 84
p0 1596 ± 1.256
2000
1900
1800
1700
1600
1500

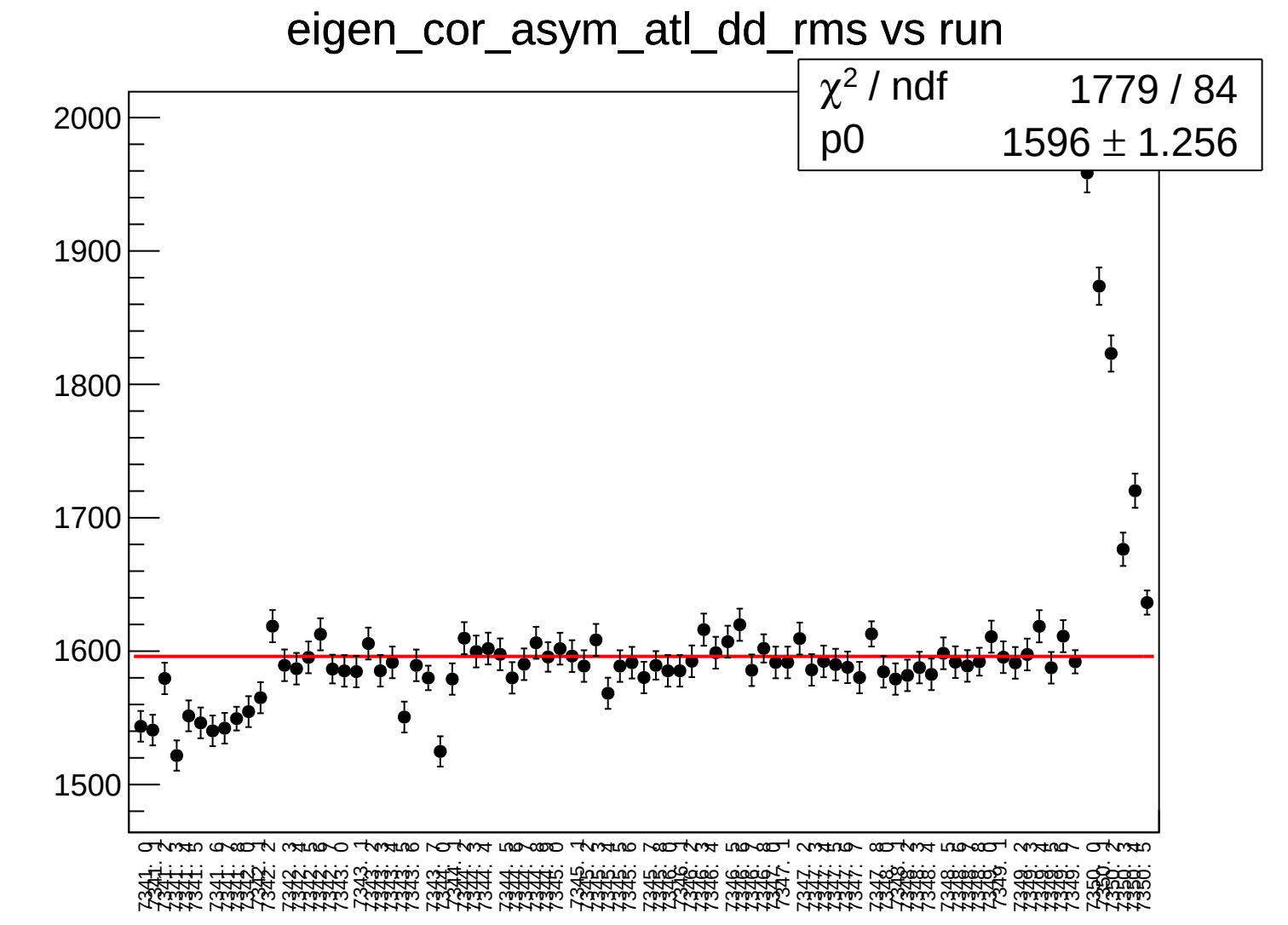

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 72.98 / 84
p0 4086 ± 6919
×10³
pull
Entries 85
Mean −107.4
Std Dev 0

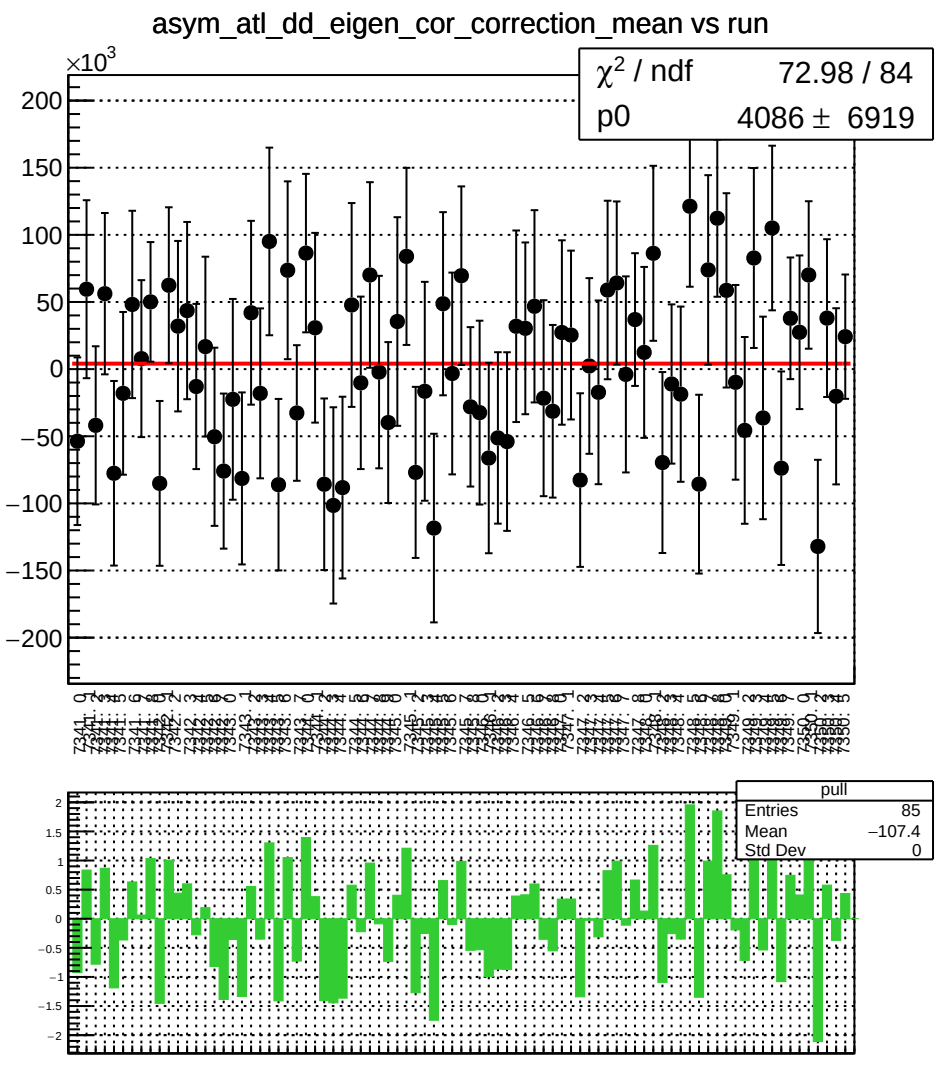

pull1D
Entries 85
Mean −0.02042
Std Dev 0.9264

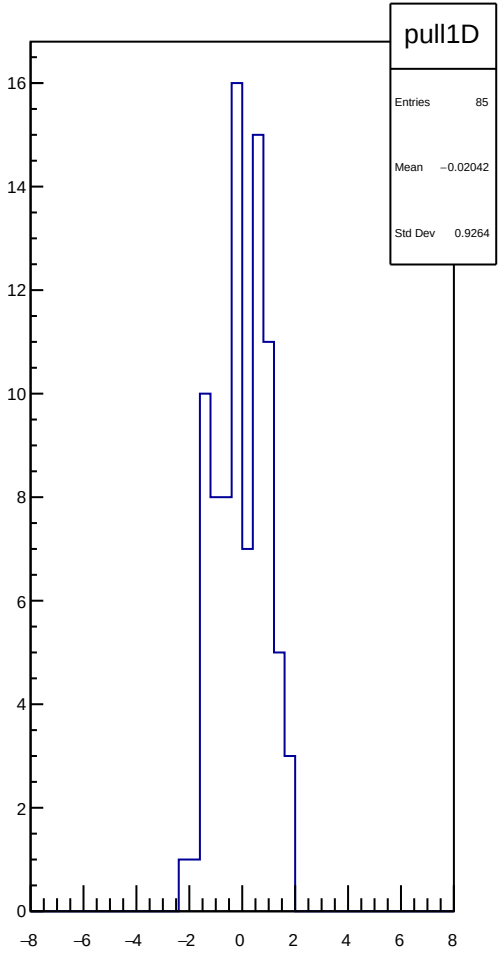

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 9197 / 84
p0 6202 ± 4.892
8000
7500
7000
6500
6000
5500
5000

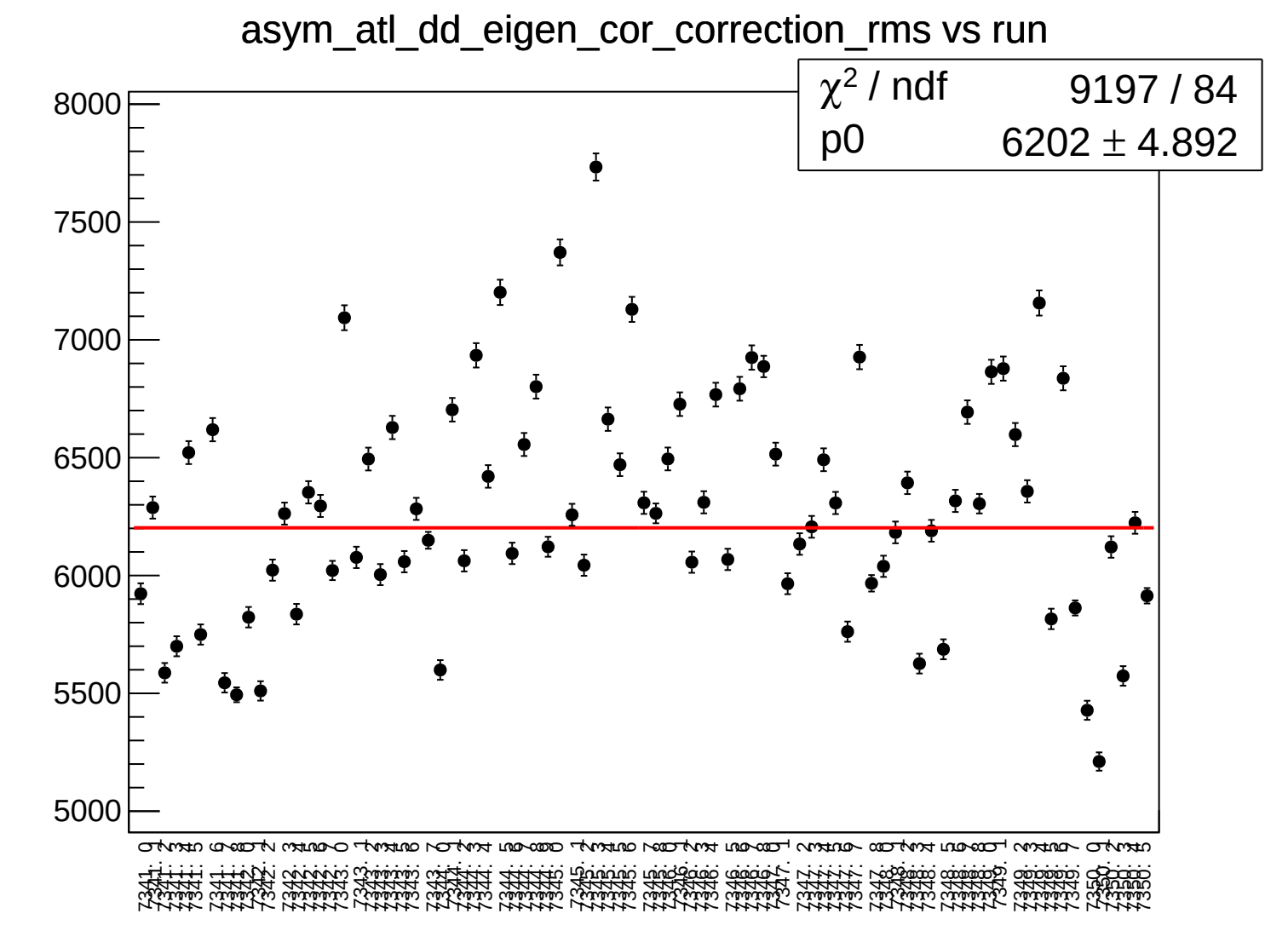

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 64.3 / 84
p0 −600.2 ± 1776
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −171.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

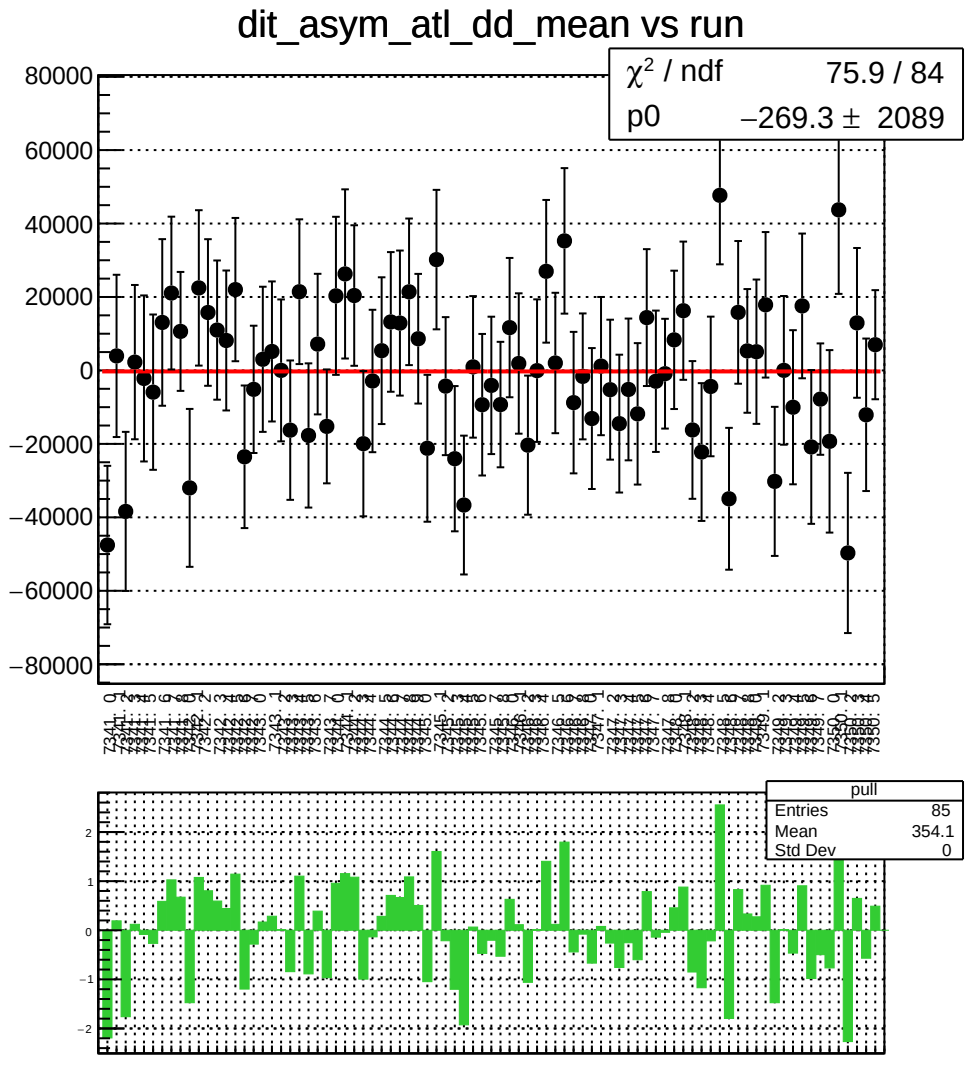

pull1D
Entries 85
Mean 0.01024
Std Dev 0.8697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

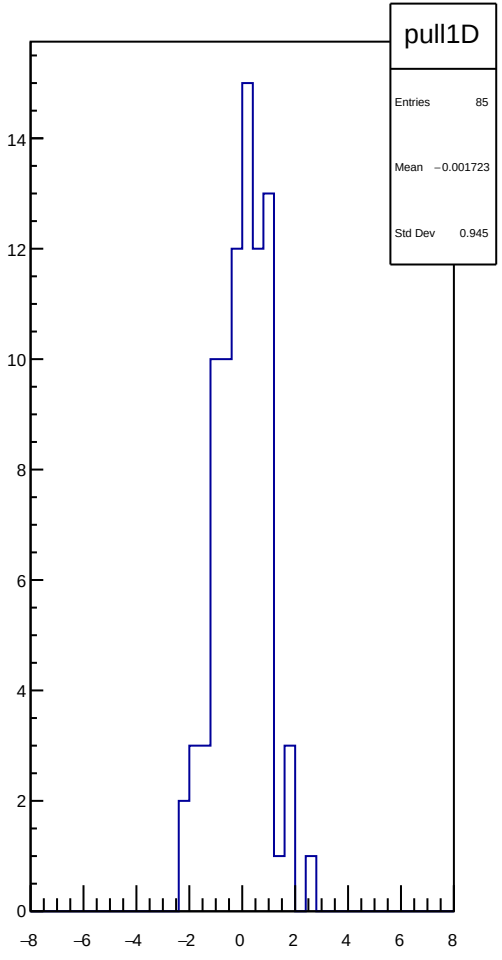

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 1779 / 84
p0 1596 ± 1.256
2000
1900
1800
1700
1600
1500

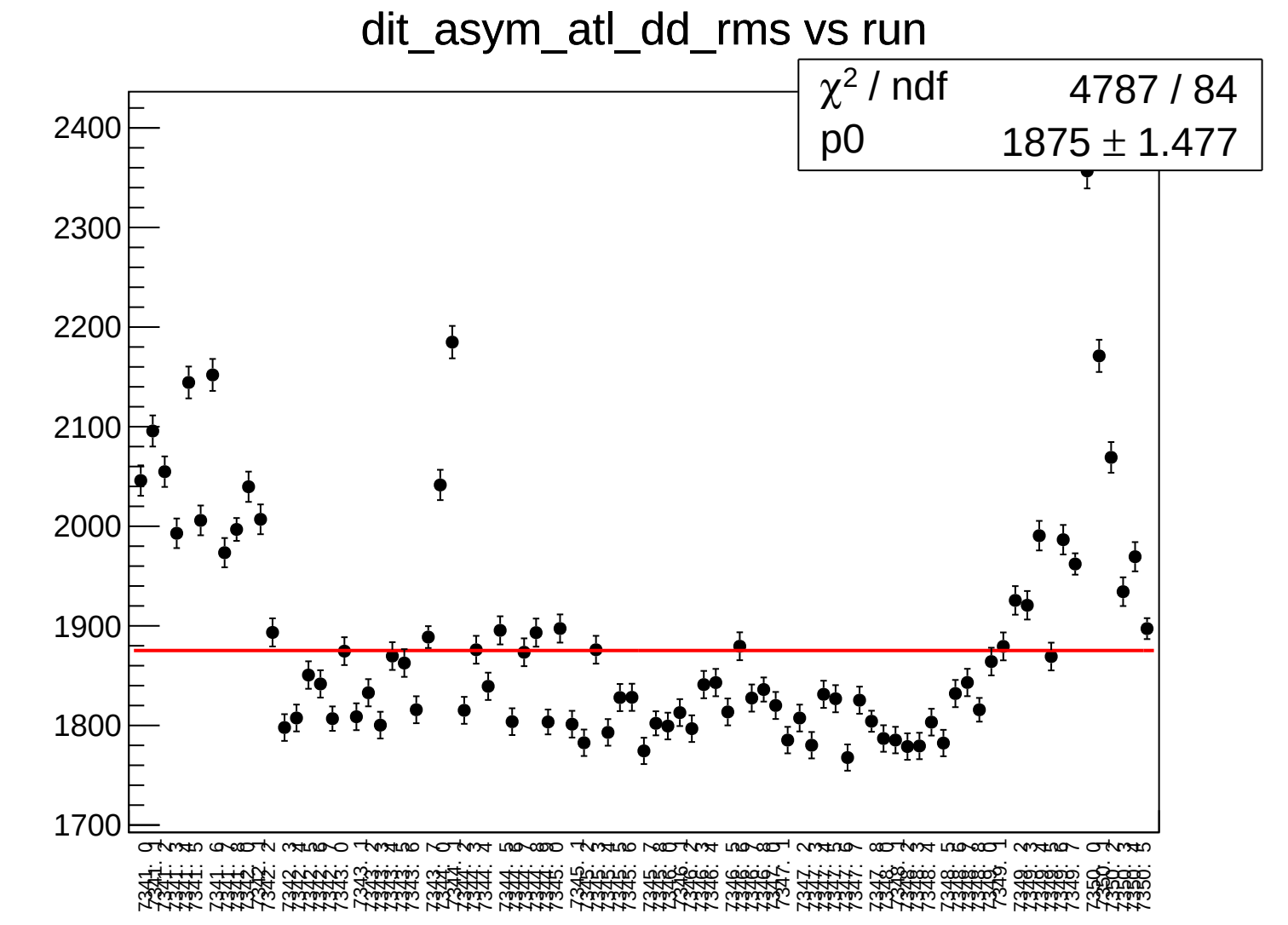

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.98 / 84
p0 4086 ± 6919
pull
Entries 85
Mean −107.4
Std Dev 0

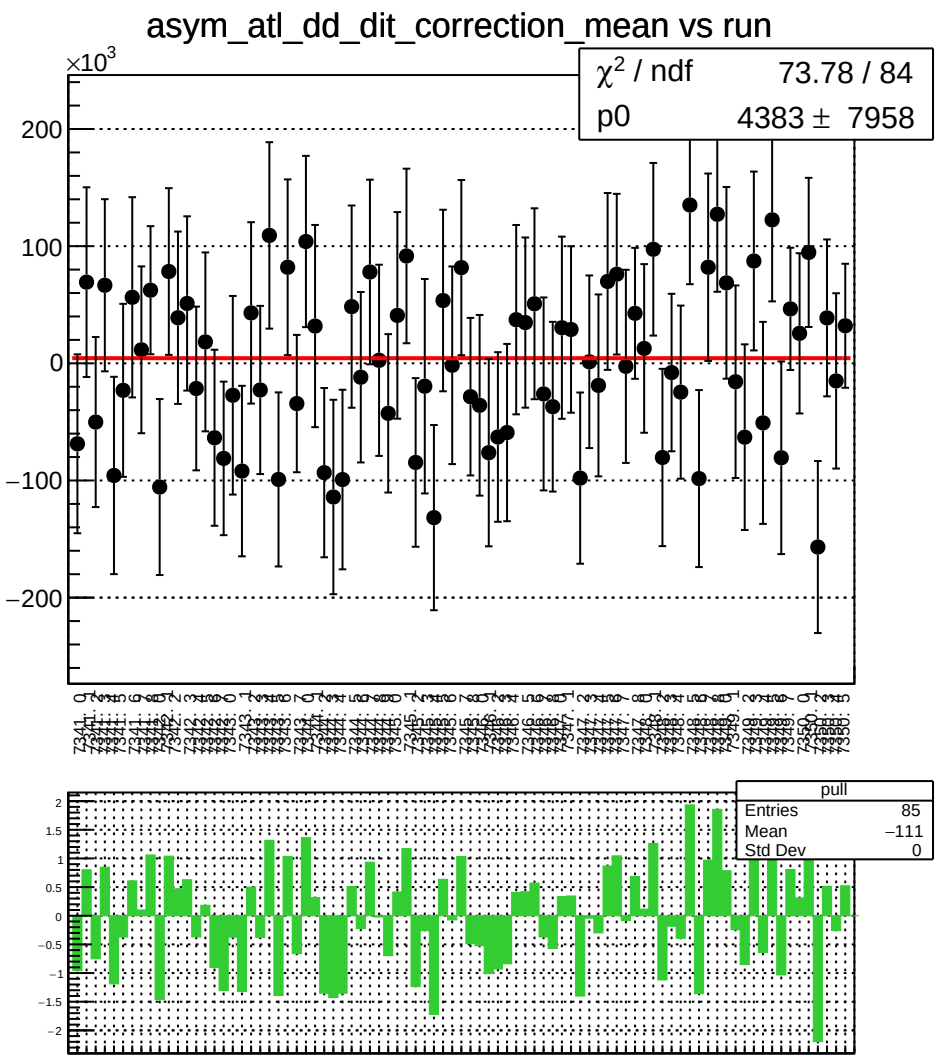

pull1D
Entries 85
Mean −0.02042
Std Dev 0.9264

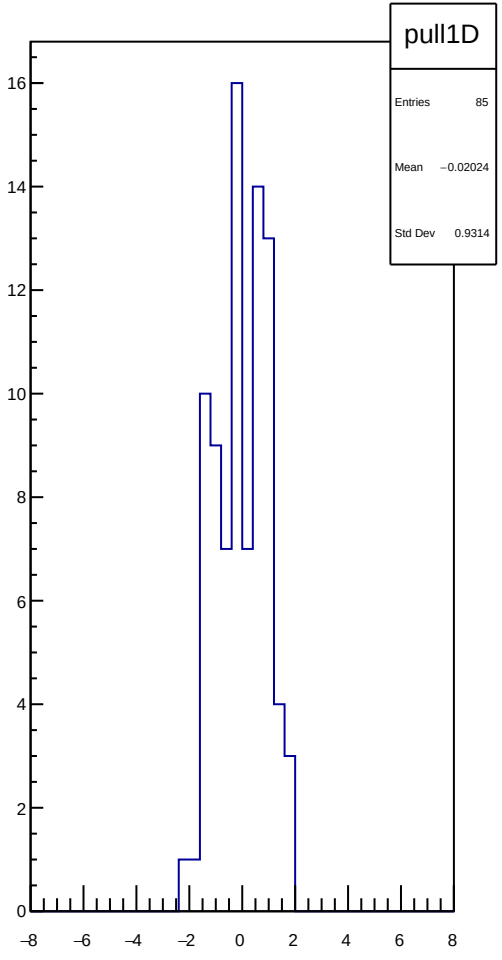

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 9197 / 84
p0 6202 ± 4.892
8000
7500
7000
6500
6000
5500
5000

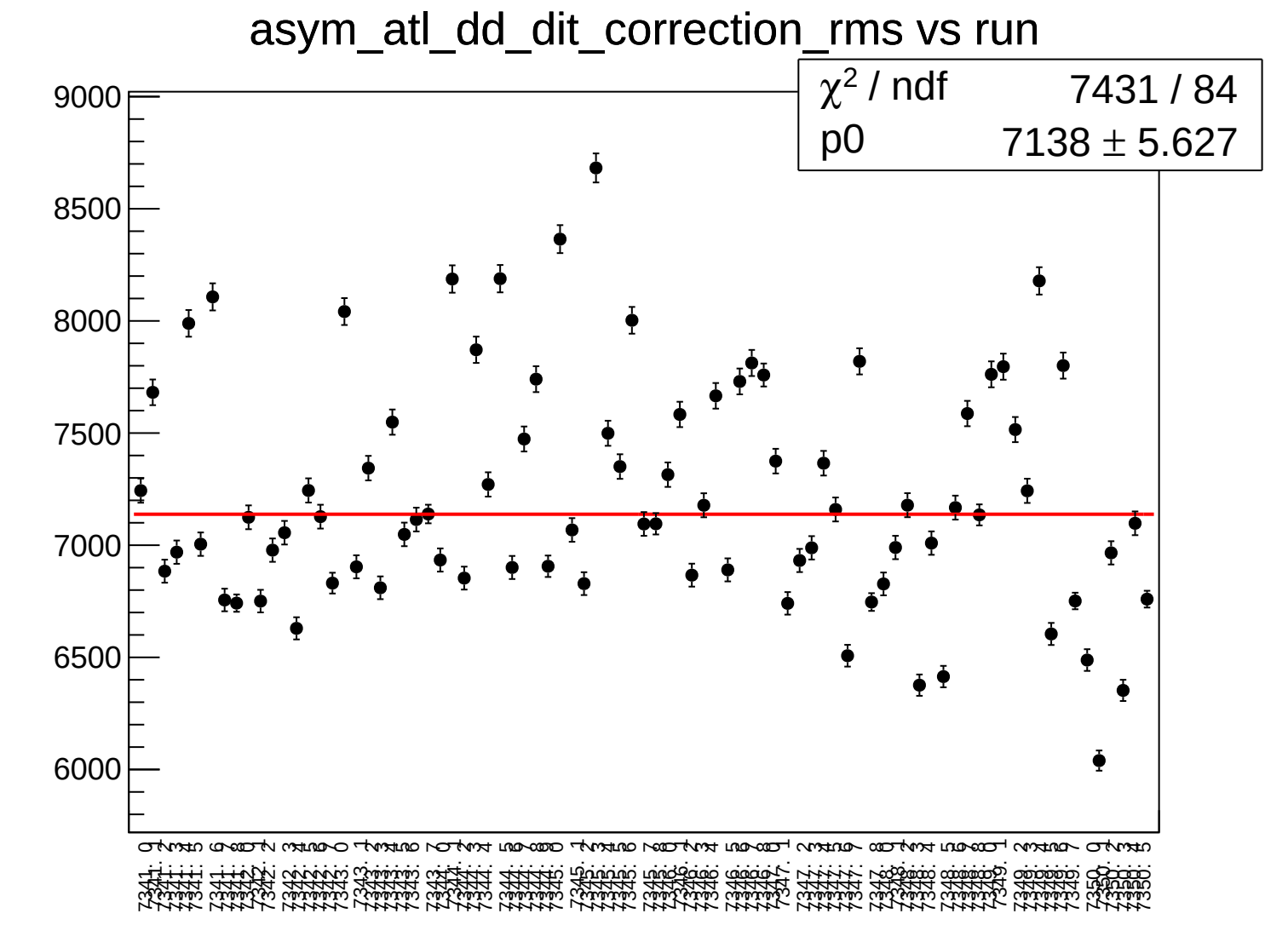

dit_asym_atl_dd_mean vs run
χ² / ndf 75.9 / 84
p0 −269.3 ± 2089
pull
Entries 85
Mean 354.1
Std Dev 0

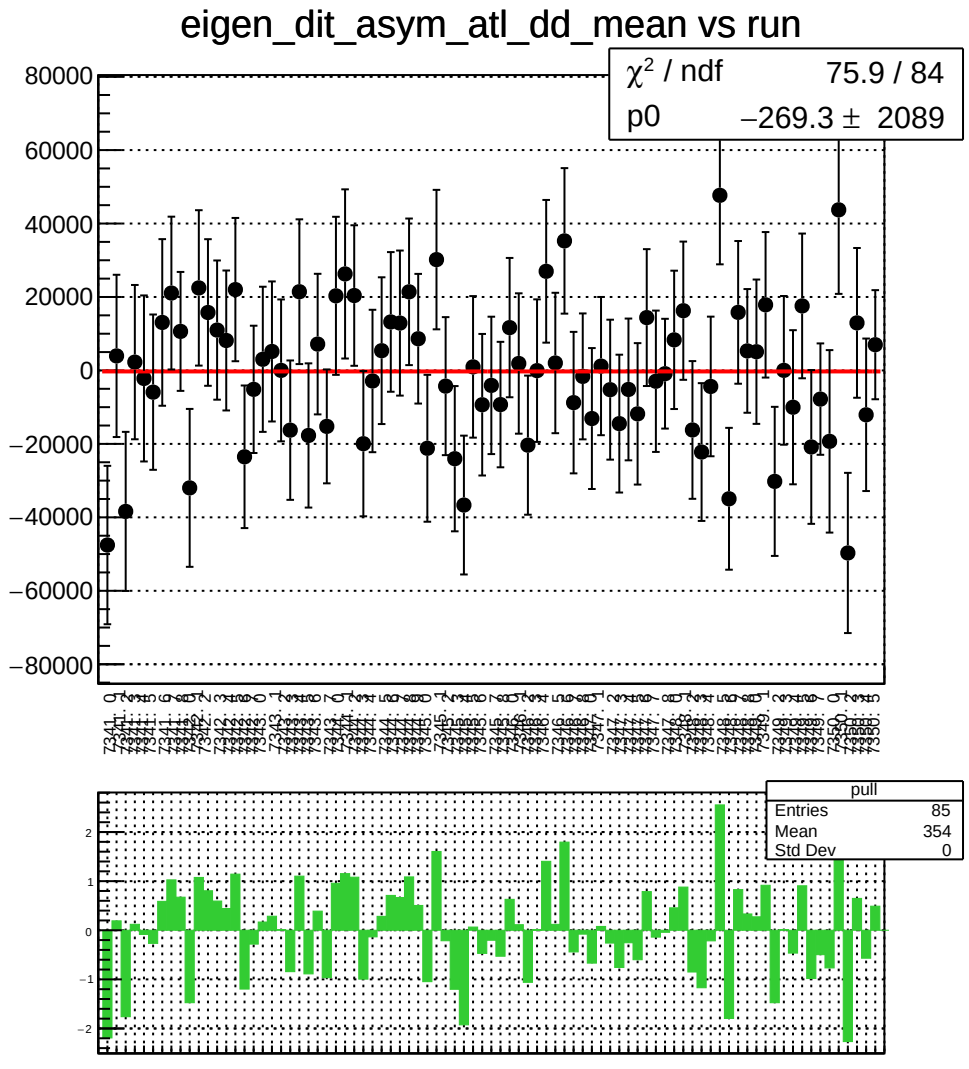

pull1D
Entries 85
Mean −0.001723
Std Dev 0.945

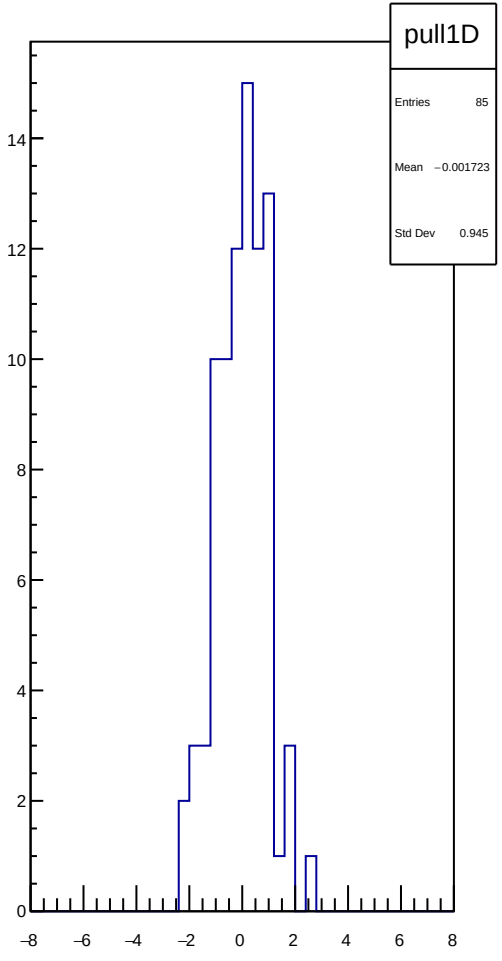

dit_asym_atl_dd_rms vs run
χ² / ndf 4787 / 84
p0 1875 ± 1.477
2400
2300
2200
2100
2000
1900
1800
1700

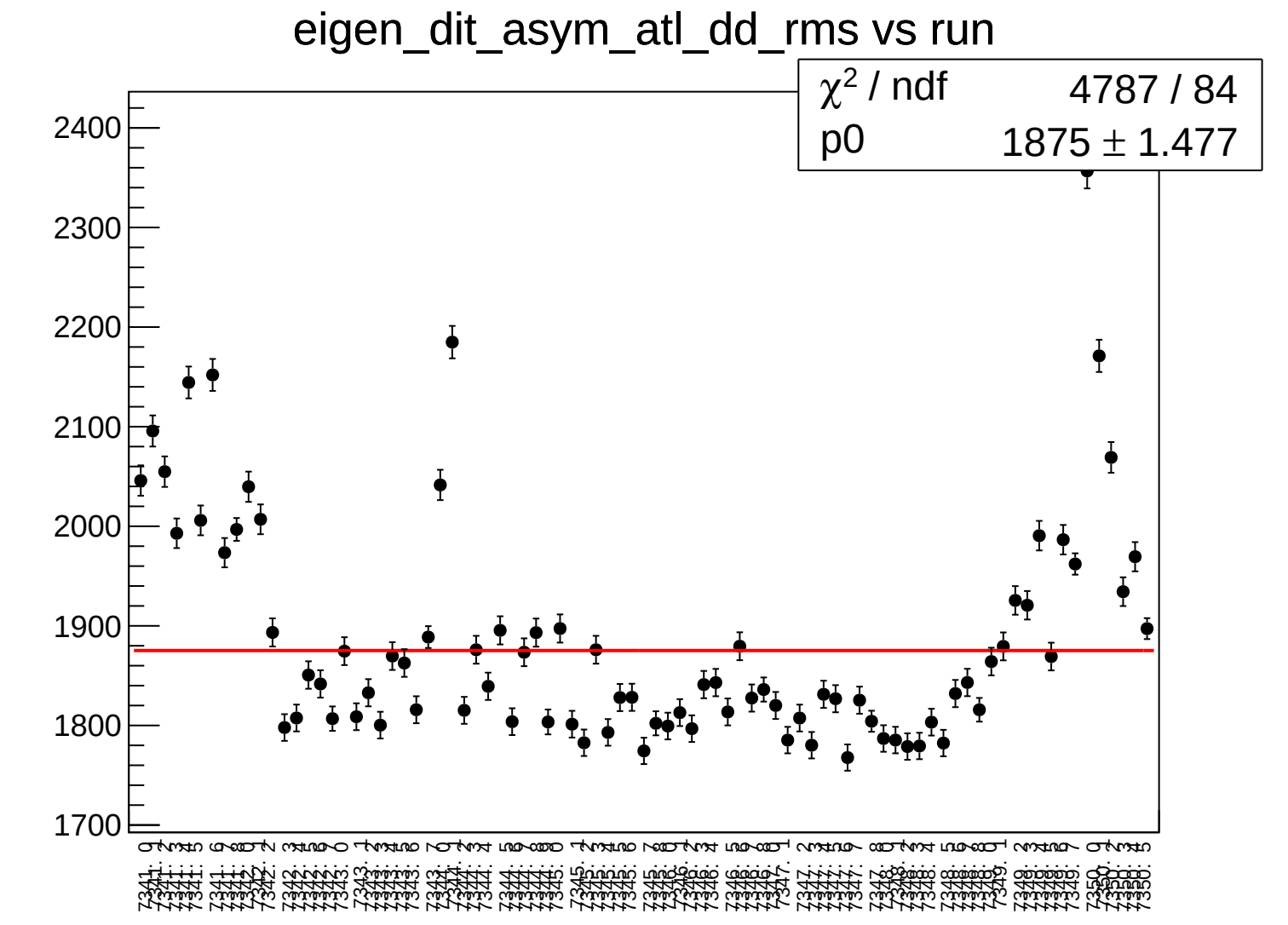

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 73.78 / 84
p0 4383 ± 7958
pull
Entries 85
Mean −111
Std Dev 0

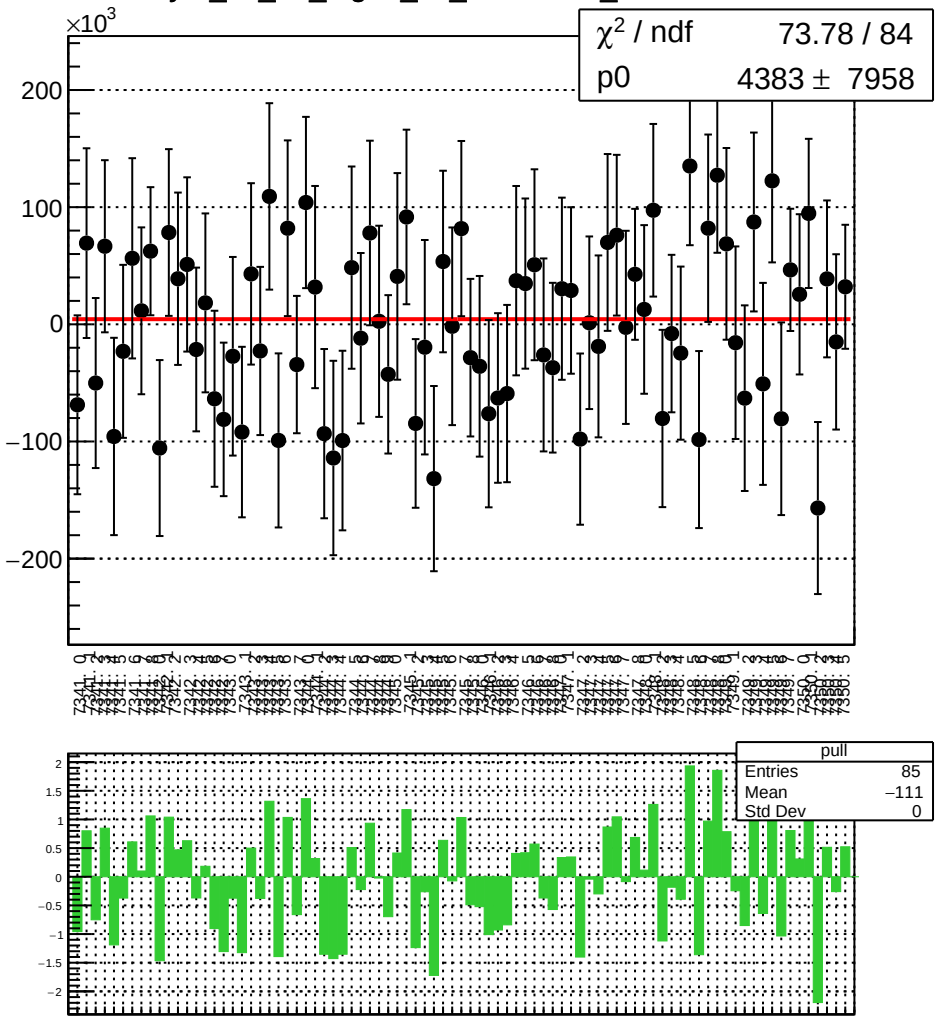

pull1D
Entries 85
Mean −0.02024
Std Dev 0.9314

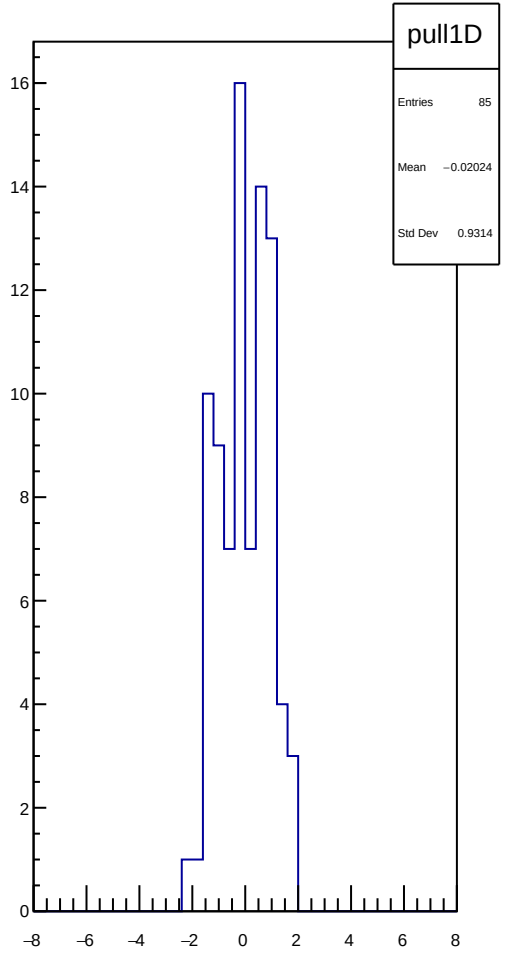

asym_atl_dd_dit_correction_rms vs run
χ^2 / ndf 7431 / 84
p0 7138 ± 5.627
9000
8500
8000
7500
7000
6500
6000

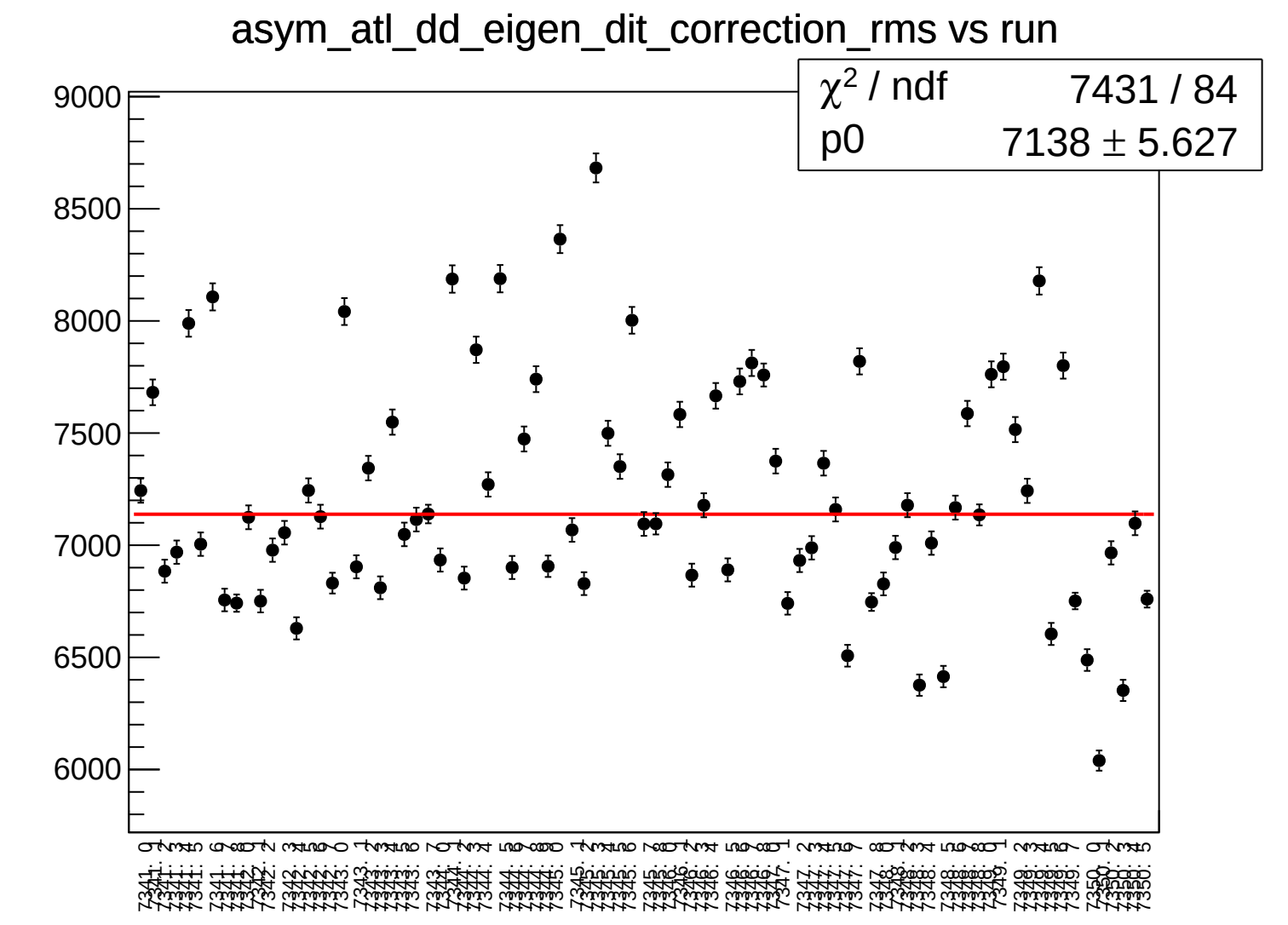

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 75.9 / 84
p0 −269.3 ± 2089
pull
Entries 85
Mean 354
Std Dev 0

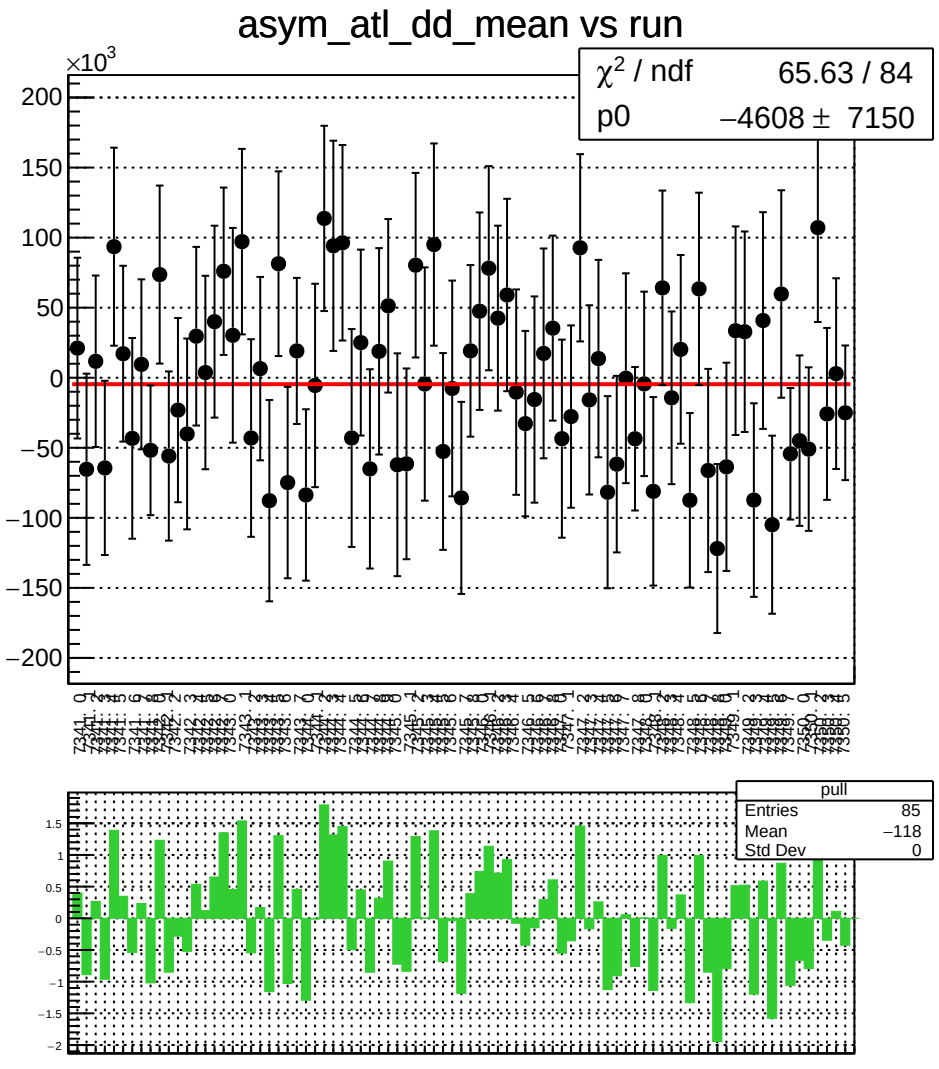

pull1D
Entries 85
Mean −0.001723
Std Dev 0.945

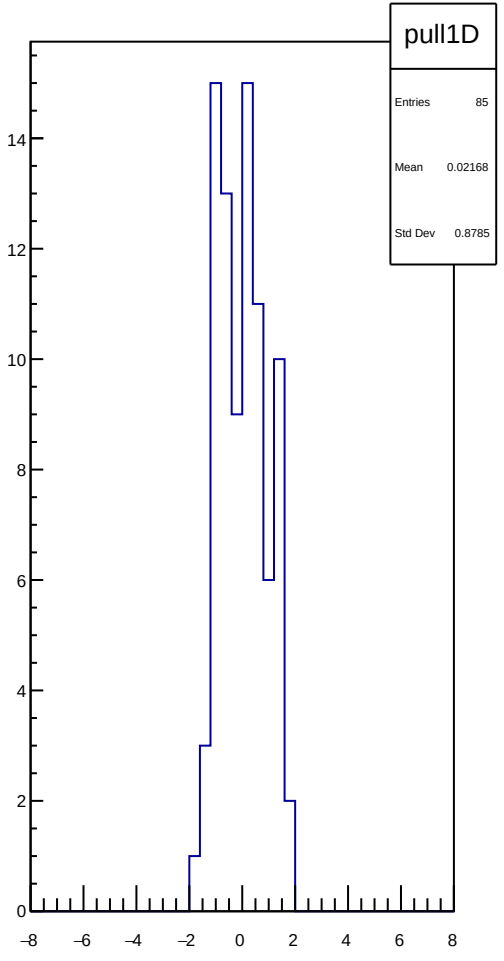

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 4787 / 84
p0 1875 ± 1.477
2400
2300
2200
2100
2000
1900
1800
1700

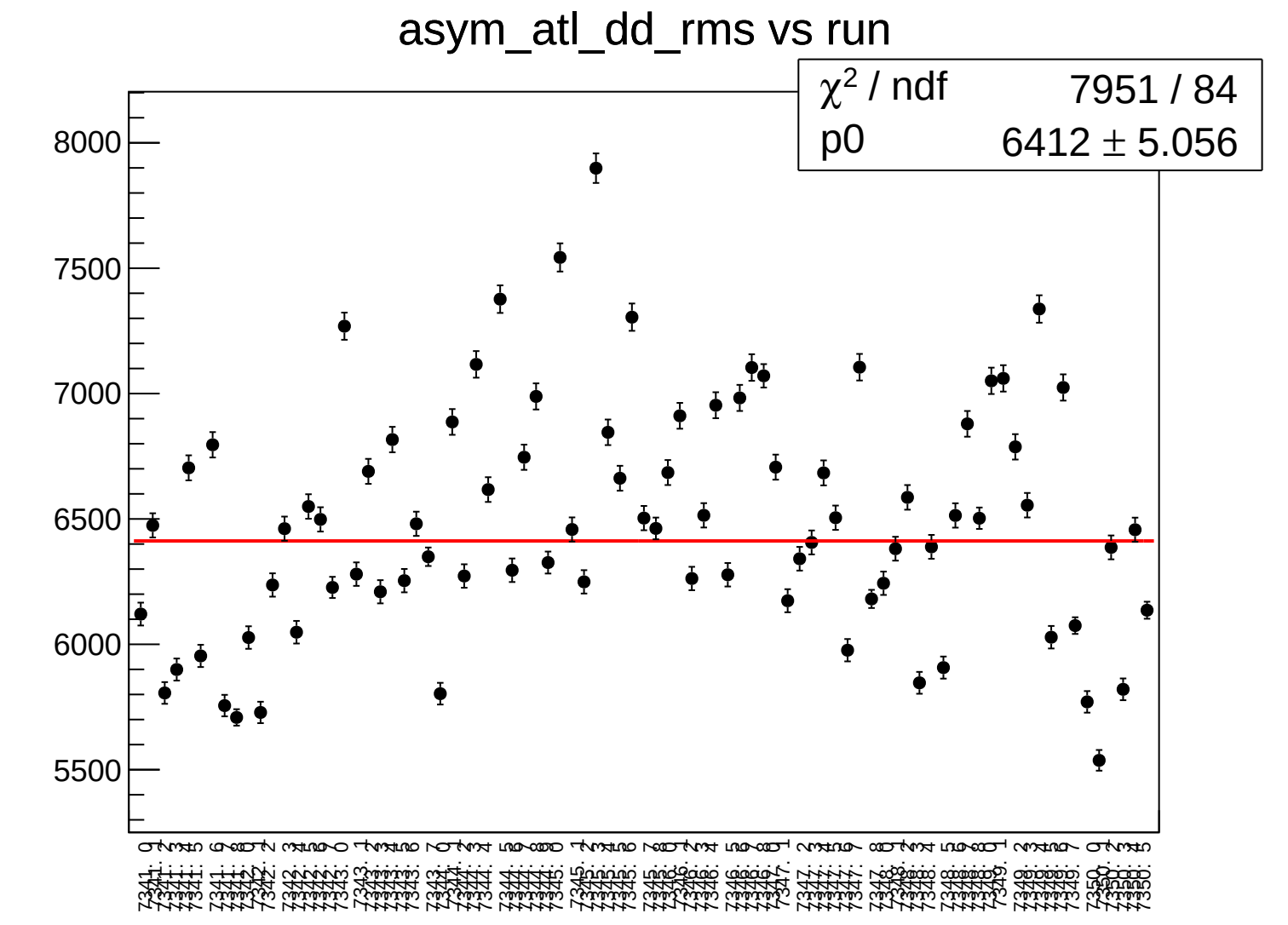

asym_atl_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.78 / 84
p0 4383 ± 7958
×10³
200
100
0
−100
−200
pull
Entries 85
Mean −111
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

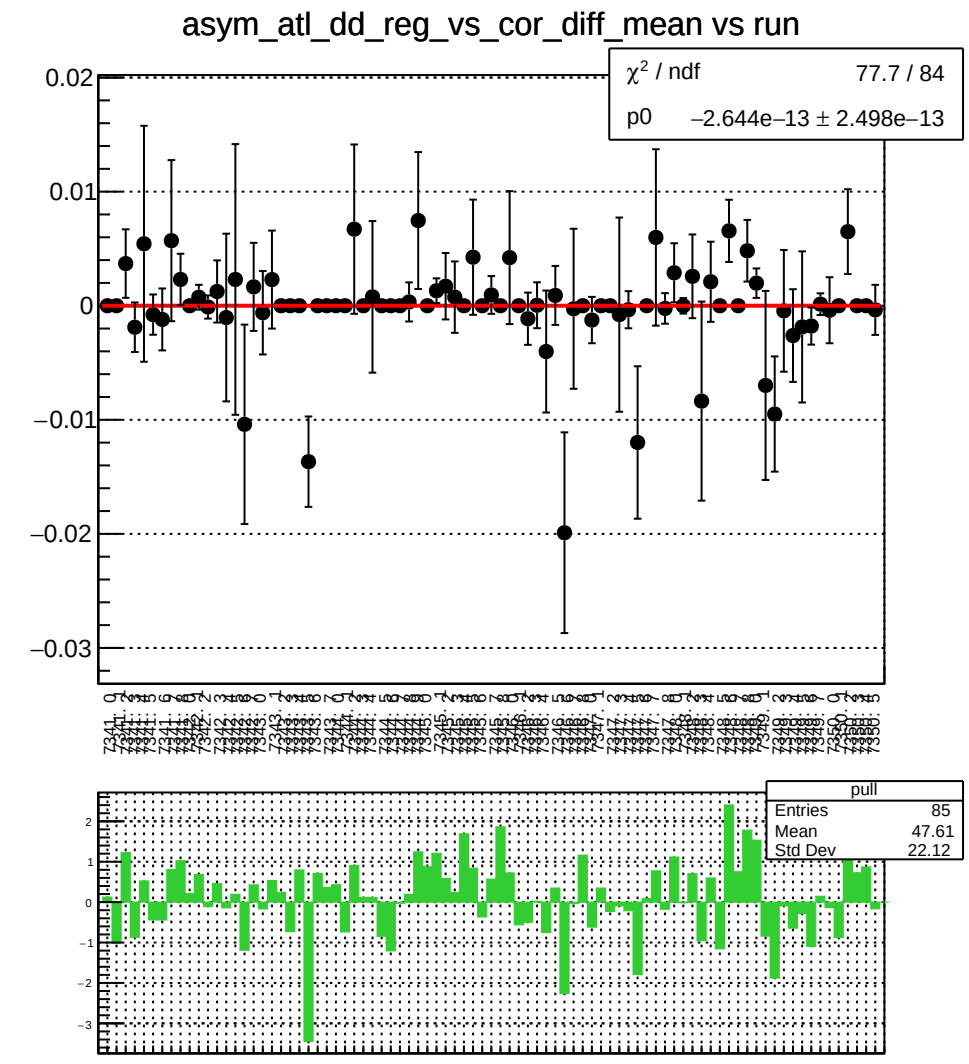

pull1D
Entries 85
Mean −0.02024
Std Dev 0.9314
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

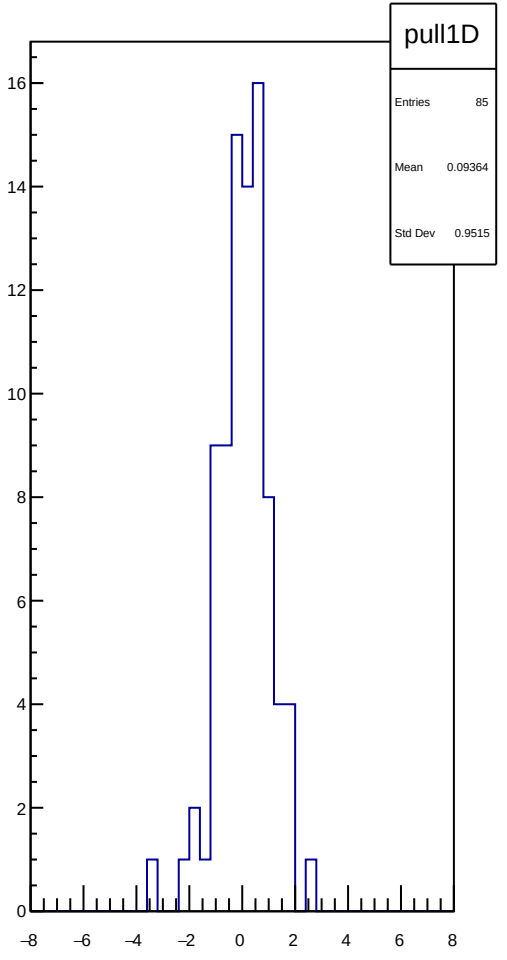

asym_atl_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 7431 / 84
p0 7138 ± 5.627
9000
8500
8000
7500
7000
6500
6000

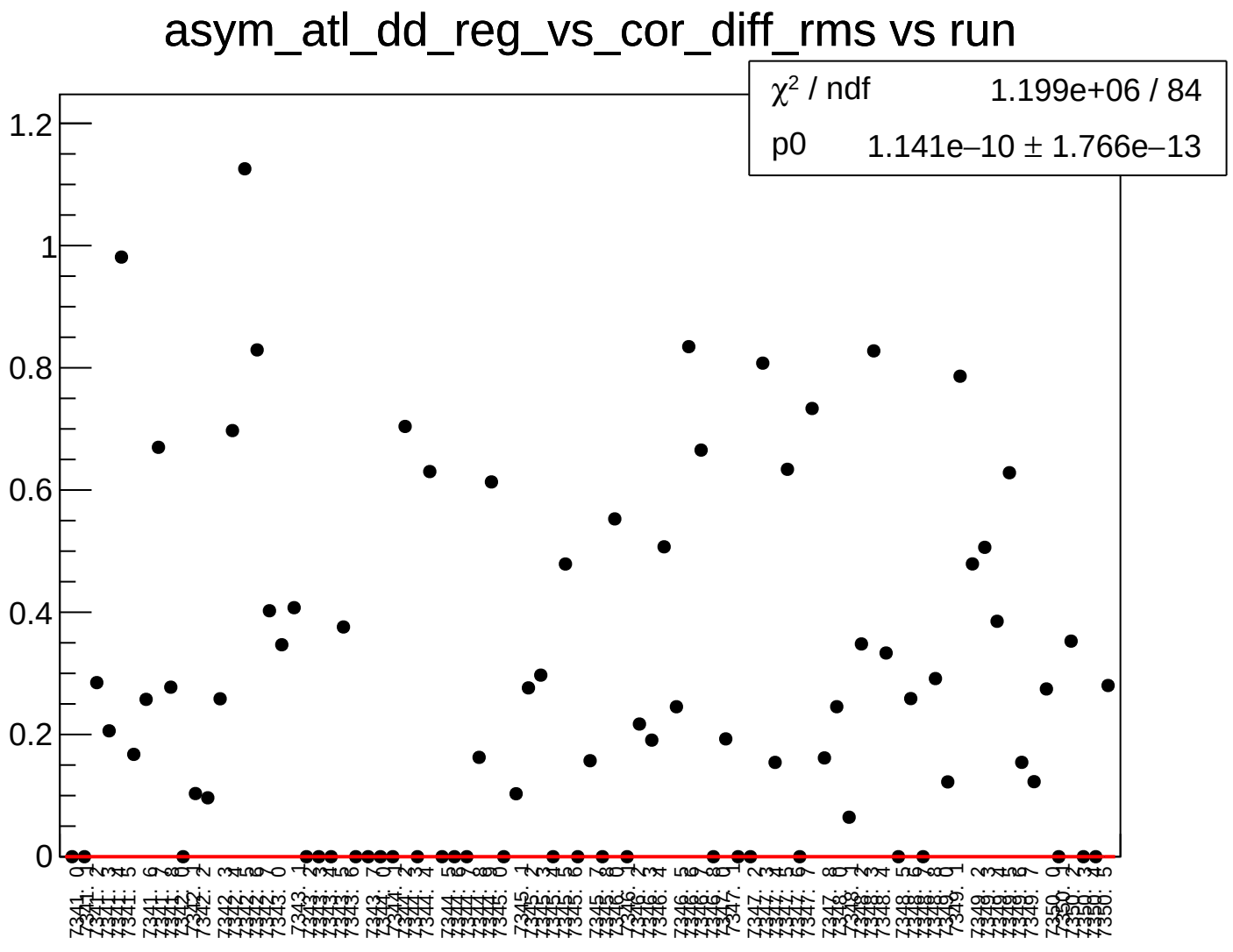

asym_atl_dd_mean vs run
×10^3
χ² / ndf 65.63 / 84
p0 −4608 ± 7150
pull
Entries 85
Mean −118
Std Dev 0

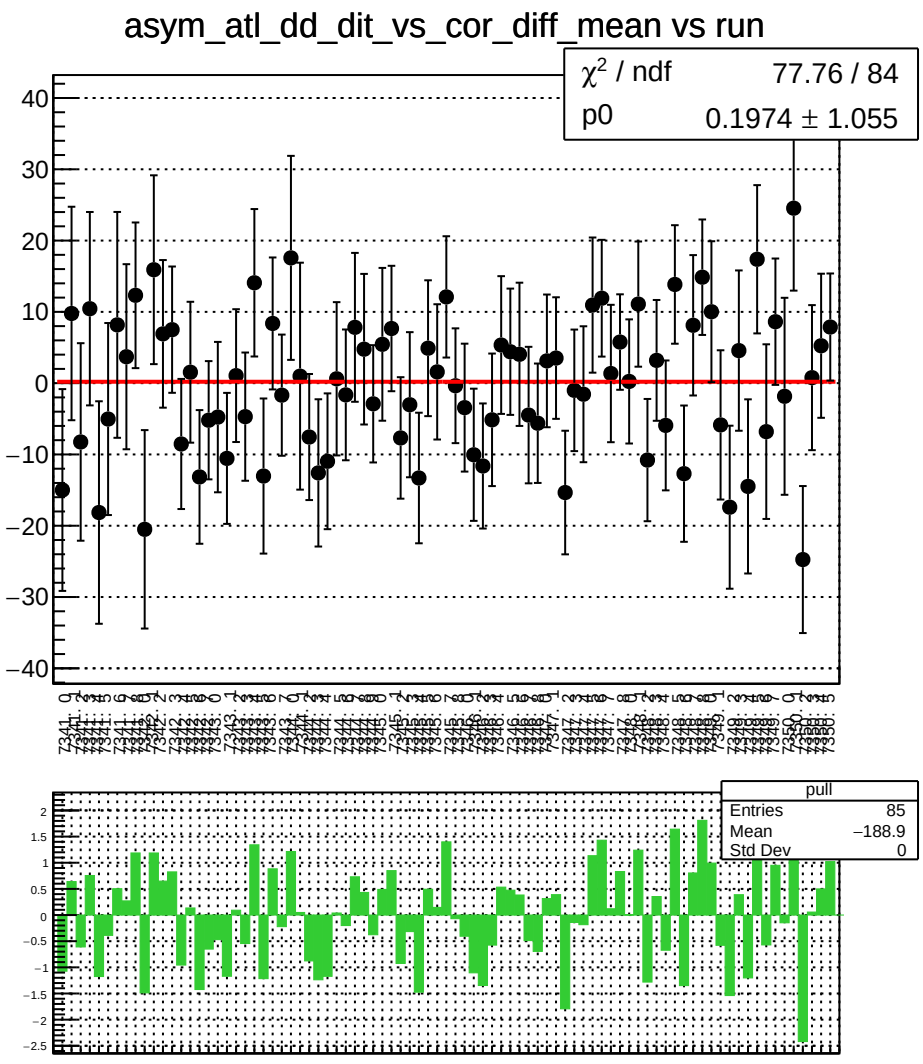

pull1D
Entries 85
Mean 0.02168
Std Dev 0.8785

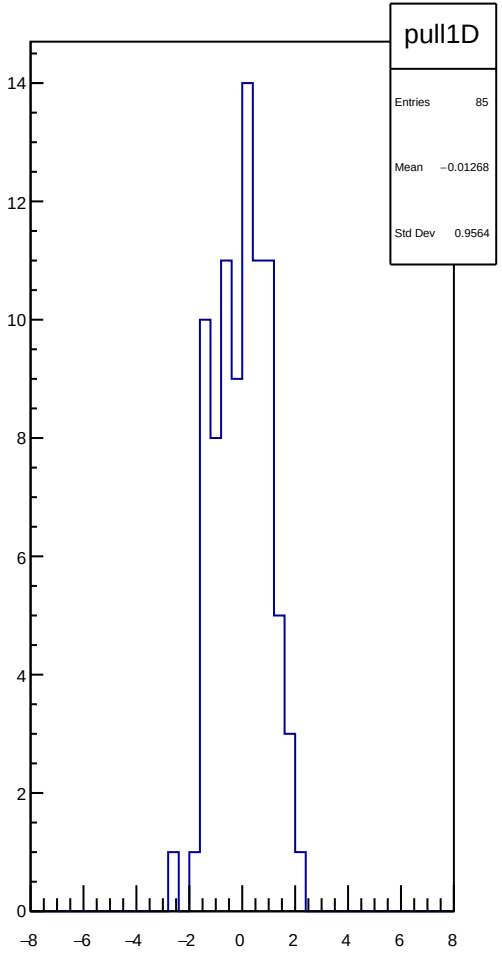

asym_atl_dd_rms vs run
χ² / ndf 7951 / 84
p0 6412 ± 5.056
8000
7500
7000
6500
6000
5500

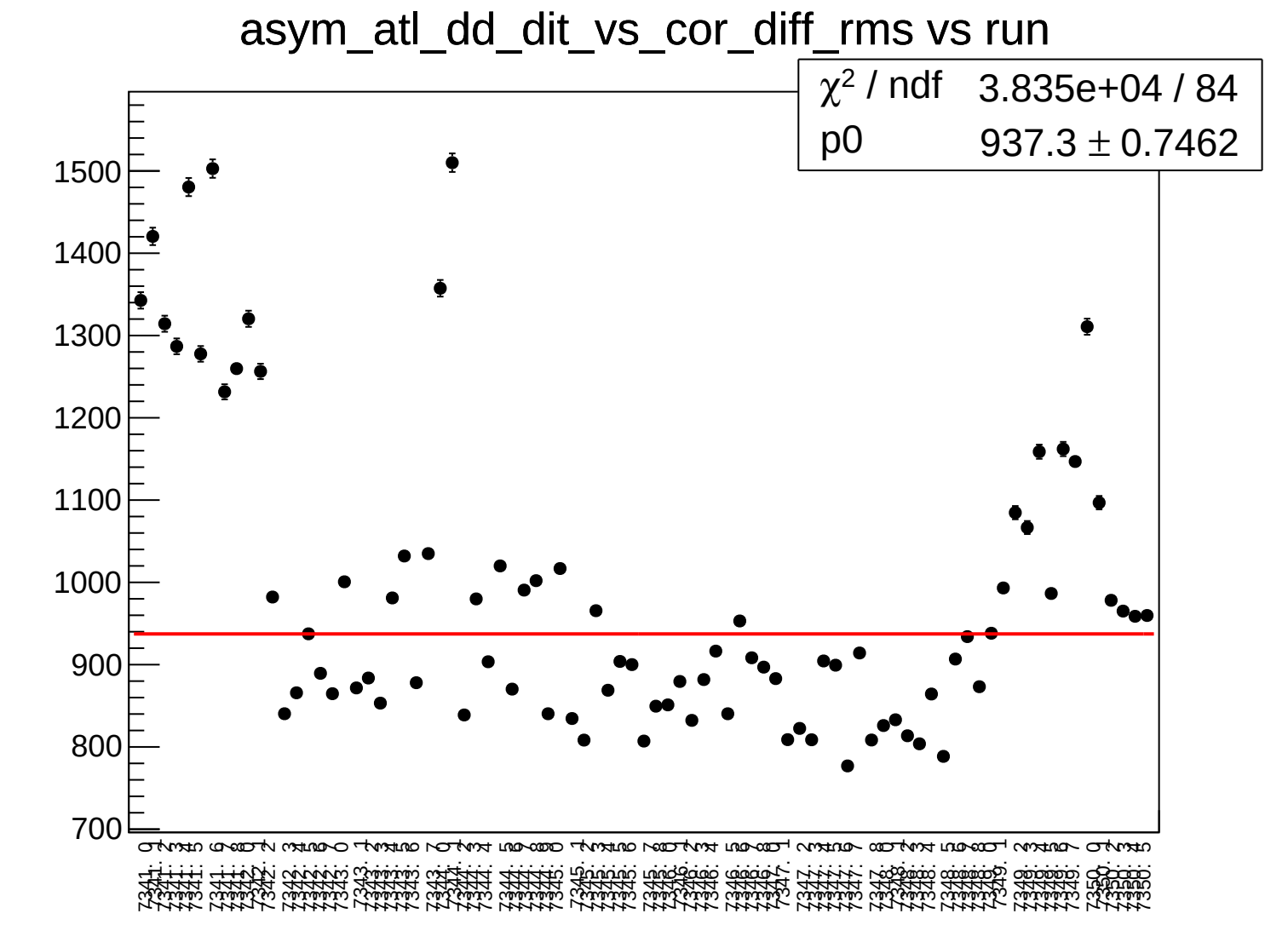

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.7 / 84
p0 −2.644e−13 ± 2.498e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean 47.61
Std Dev 22.12

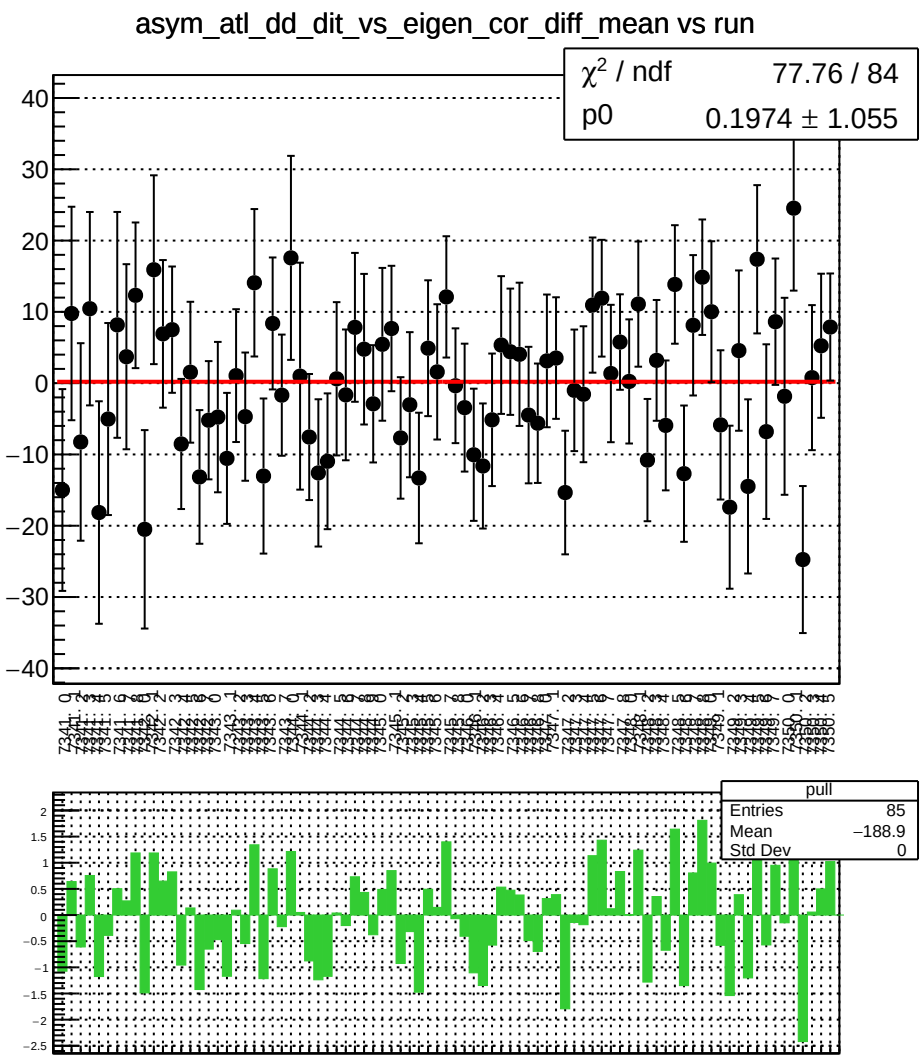

pull1D
Entries 85
Mean 0.09364
Std Dev 0.9515

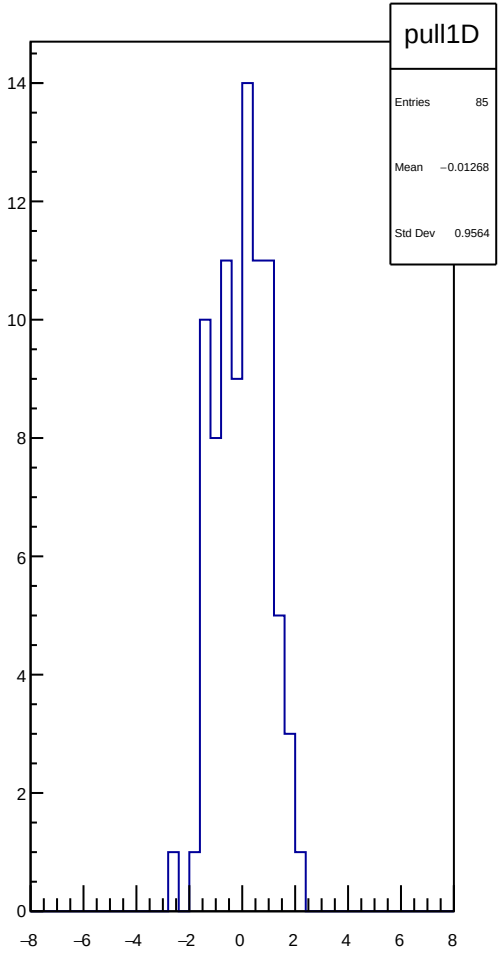

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.199e+06 / 84
p0 1.141e−10 ± 1.766e−13
1.2
1
0.8
0.6
0.4
0.2
0

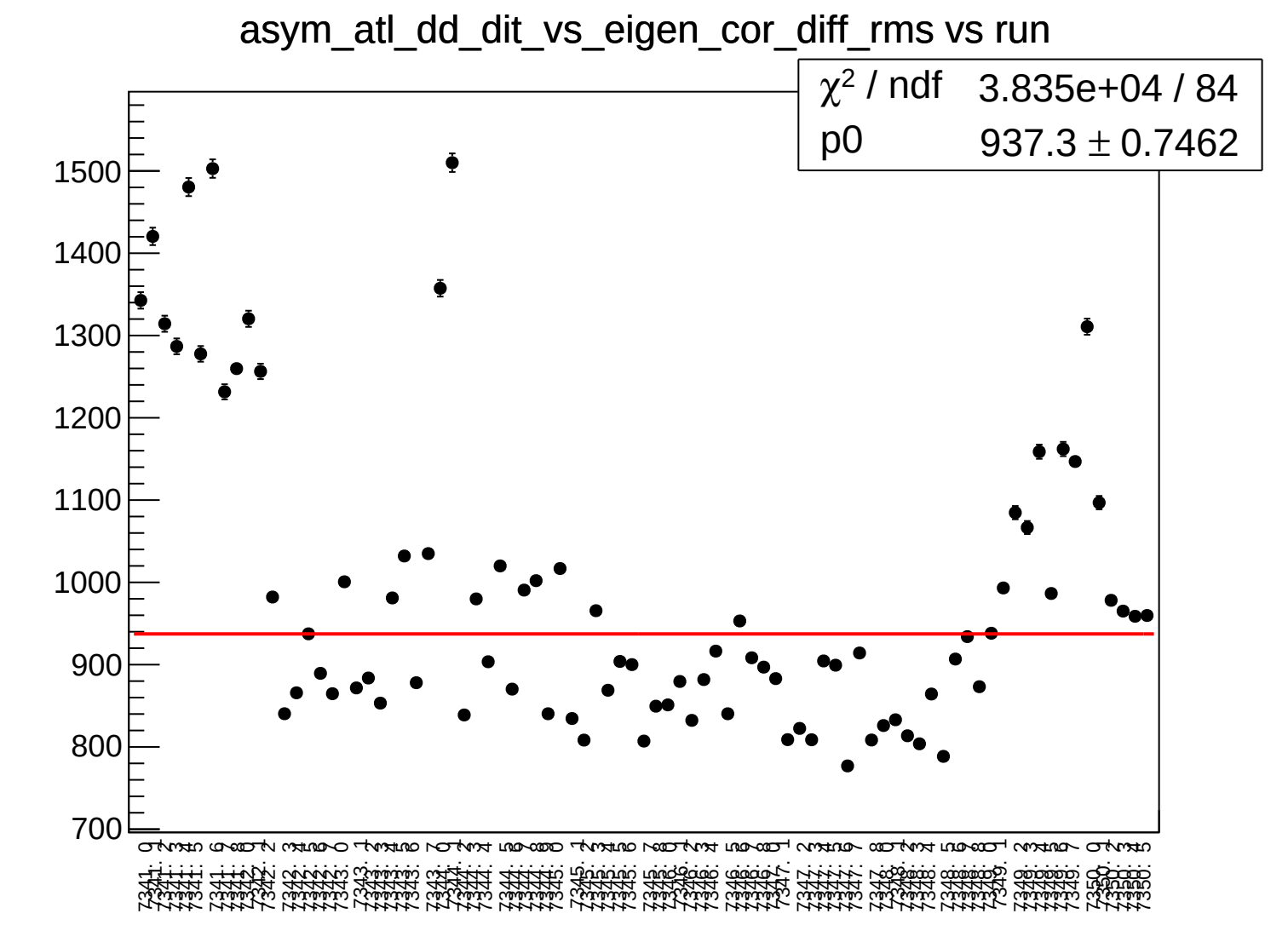

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.76 / 84
p0 0.1974 ± 1.055
pull
Entries 85
Mean −188.9
Std Dev 0

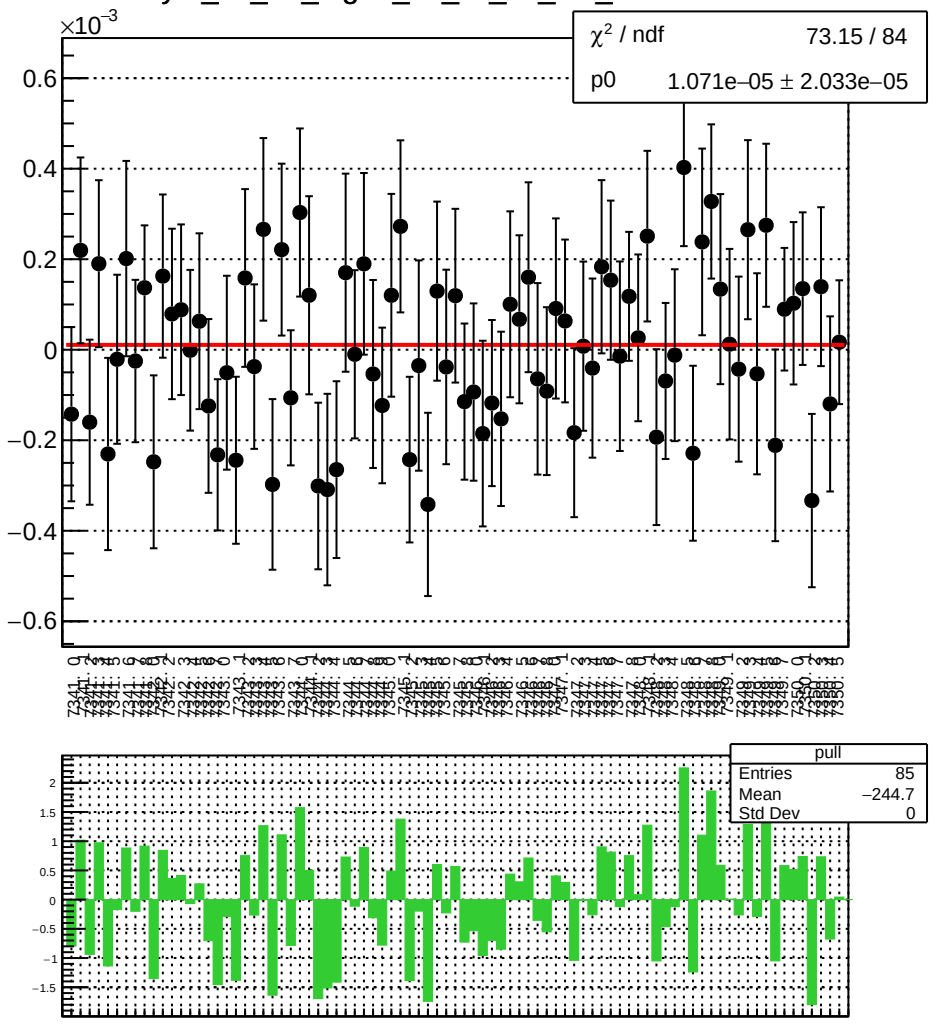

pull1D
Entries 85
Mean −0.01268
Std Dev 0.9564

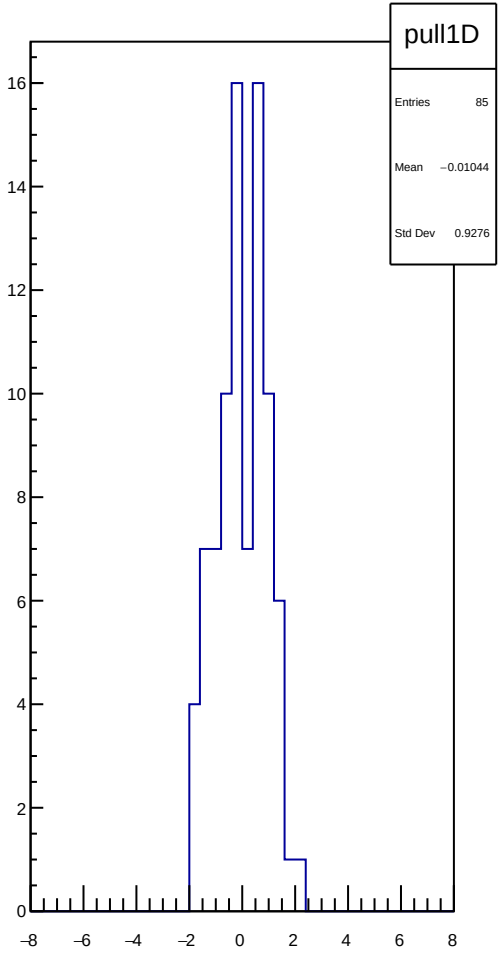

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.835e+04 / 84
p0 937.3 ± 0.7462
1500
1400
1300
1200
1100
1000
900
800
700

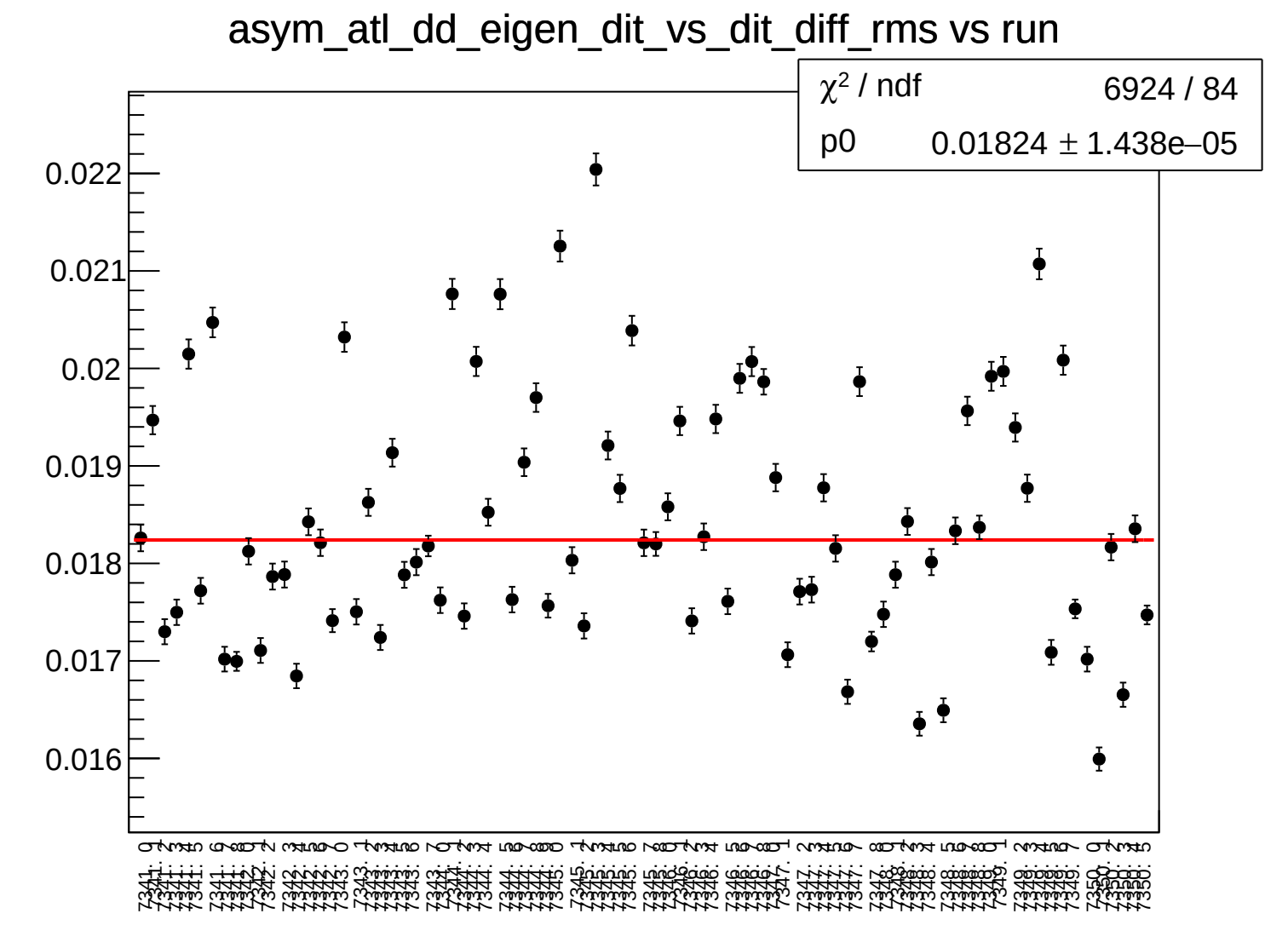

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.76 / 84
p0 0.1974 ± 1.055
pull
Entries 85
Mean −188.9
Std Dev 0

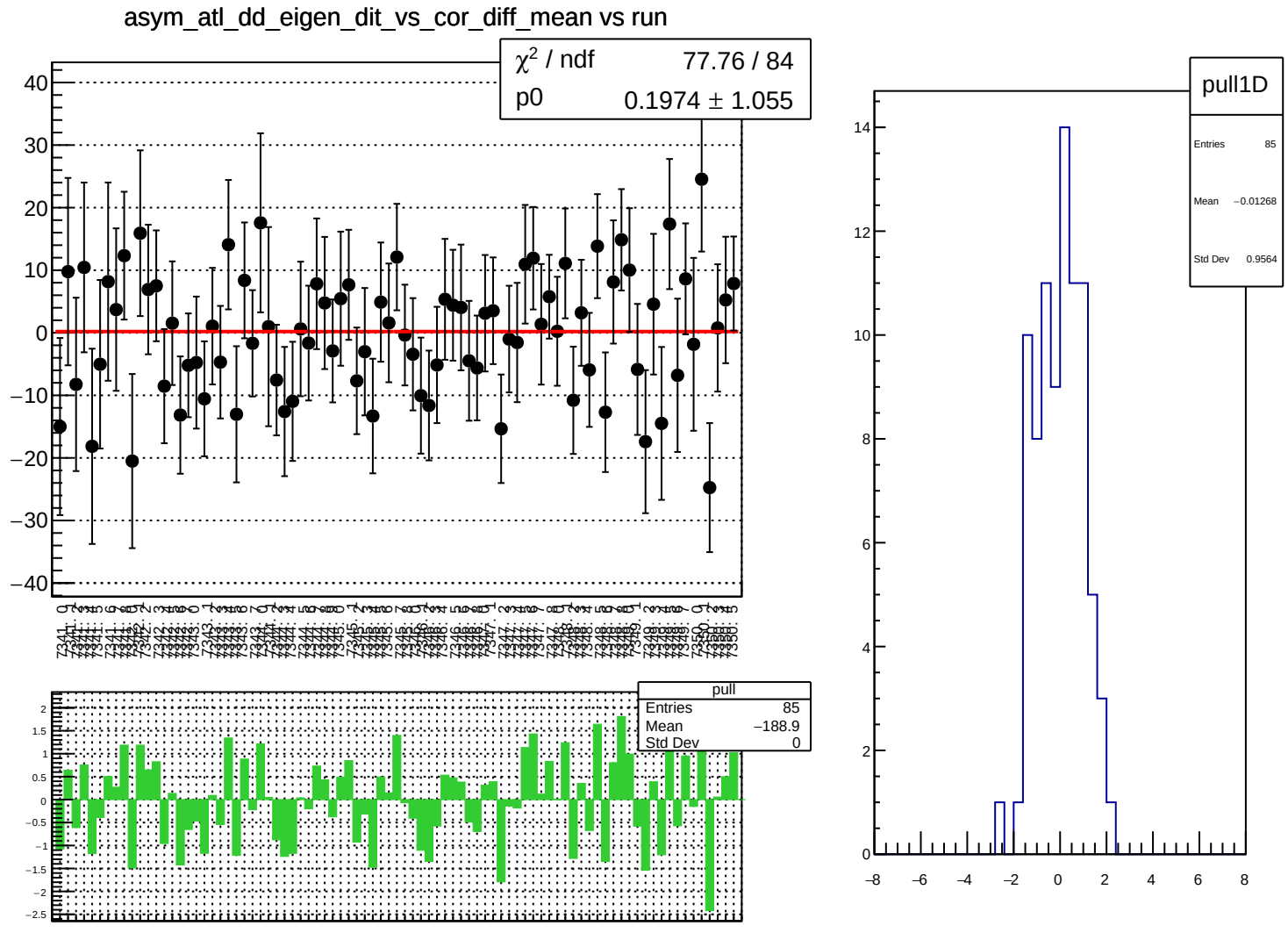

pull1D
Entries 85
Mean −0.01268
Std Dev 0.9564

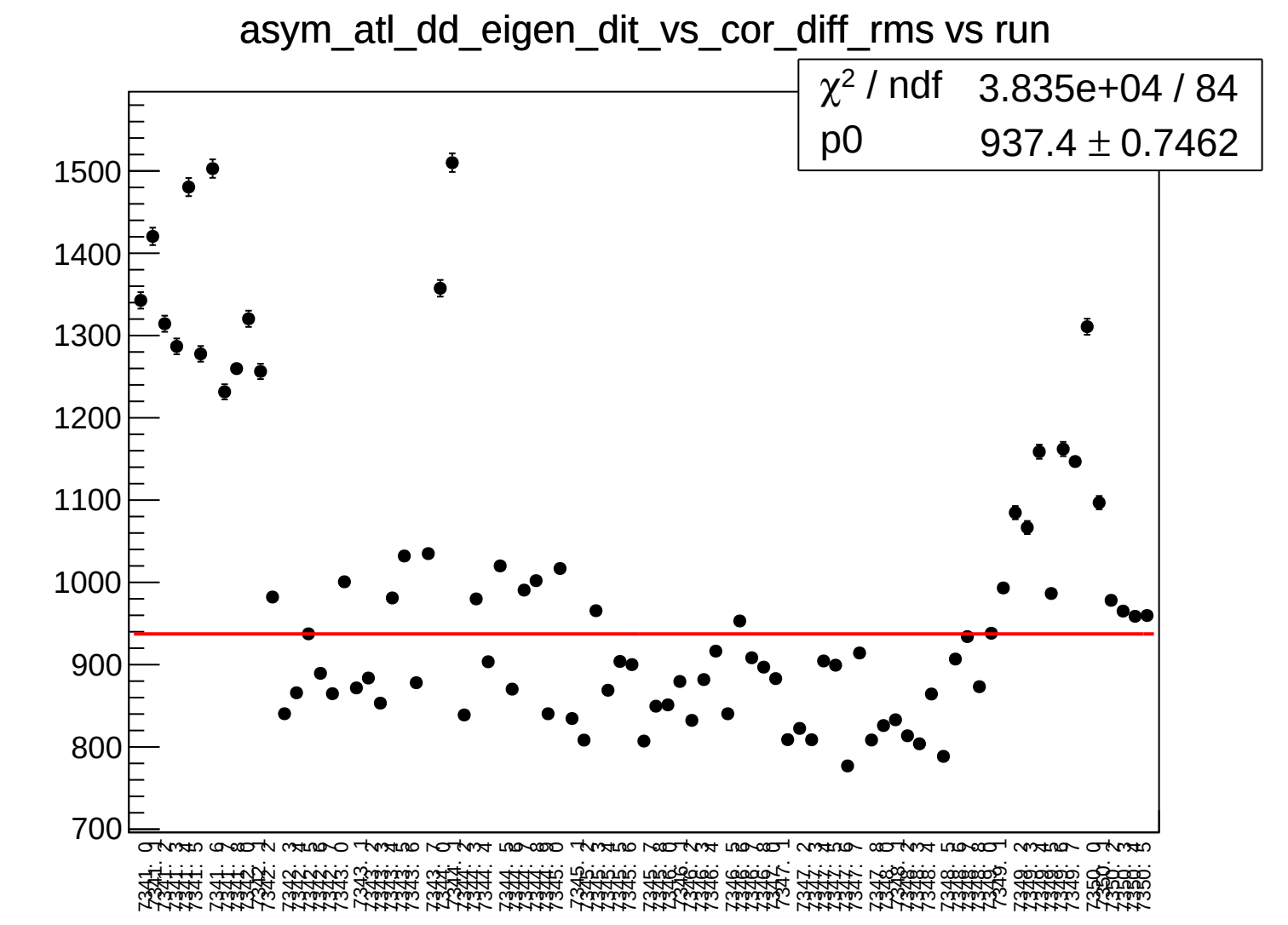

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.835e+04 / 84
p0 937.3 ± 0.7462
1500
1400
1300
1200
1100
1000
900
800
700

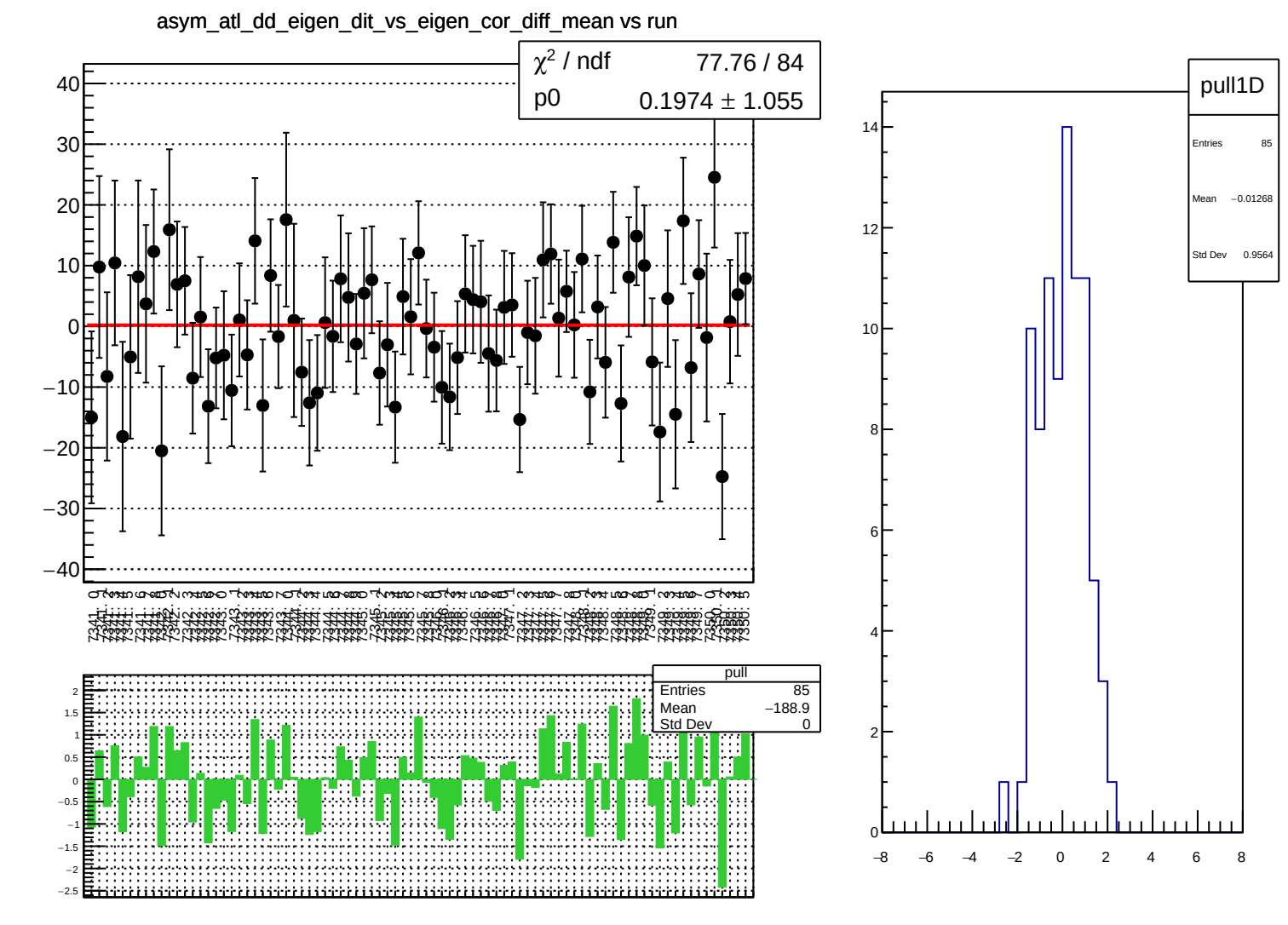

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.15 / 84
p0 1.071e−05 ± 2.033e−05
pull
Entries 85
Mean −244.7
Std Dev 0

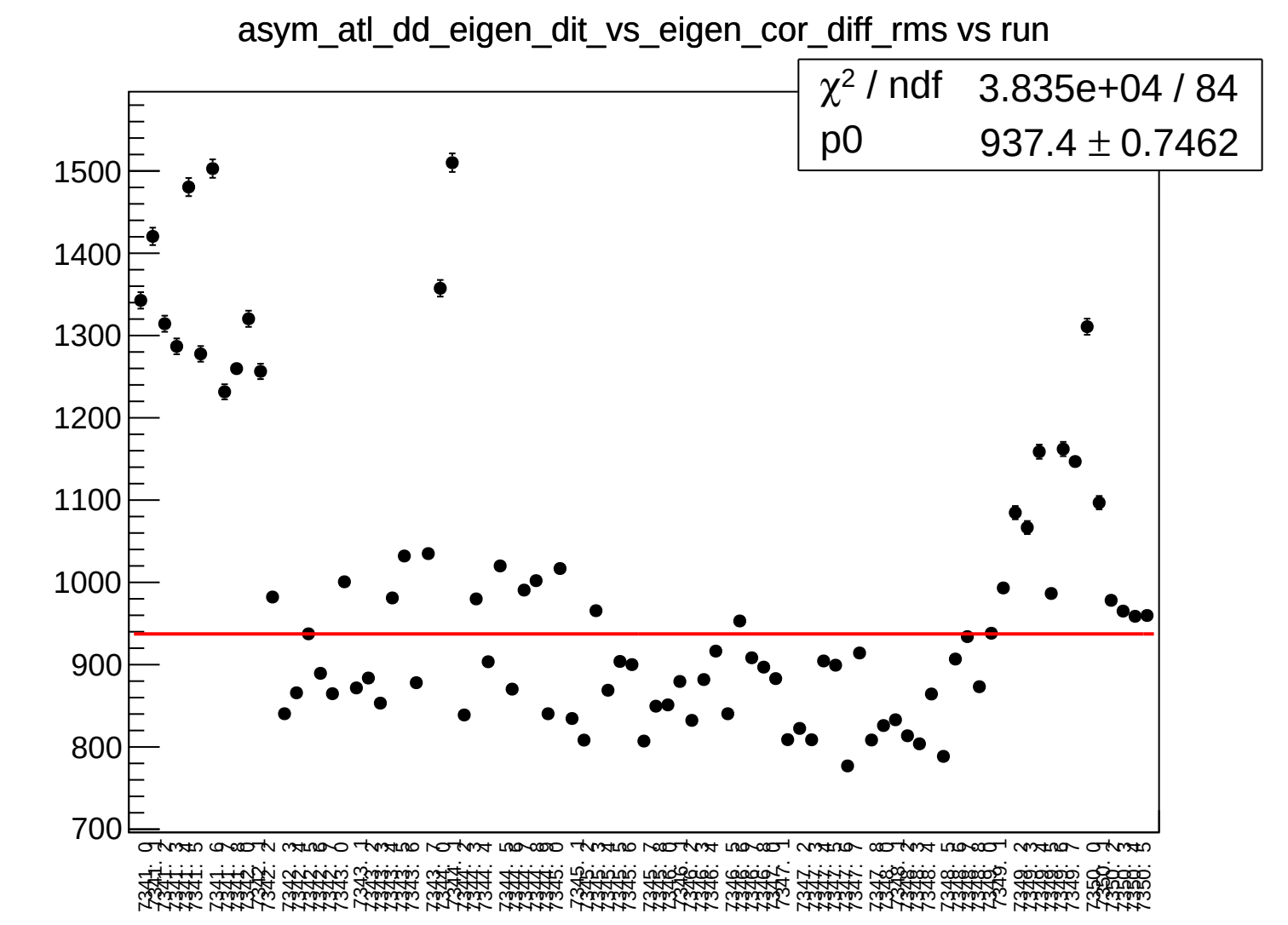

pull1D
Entries 85
Mean −0.01044
Std Dev 0.9276

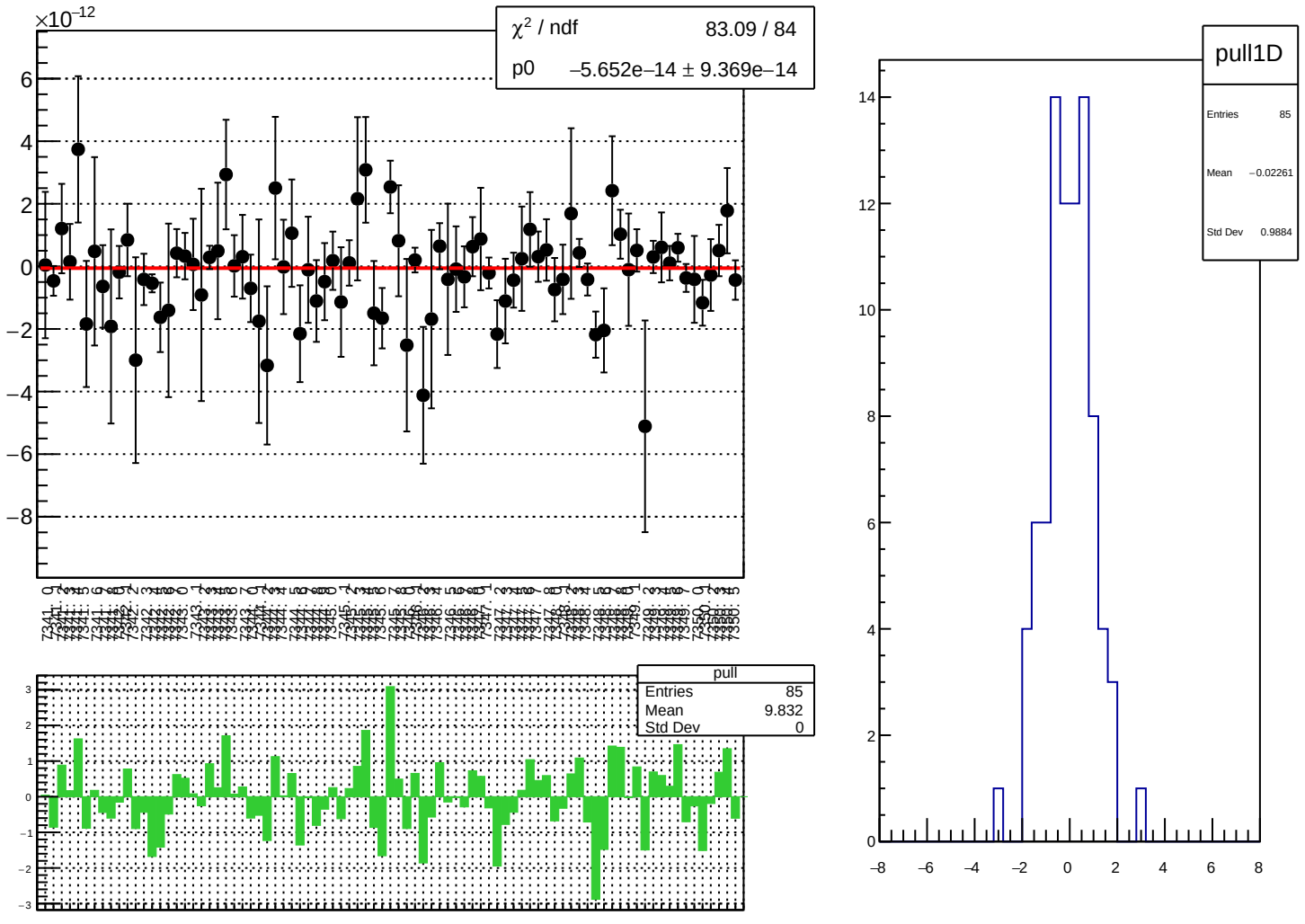

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6924 / 84
p0 0.01824 ± 1.438e–05
0.022
0.021
0.02
0.019
0.018
0.017
0.016

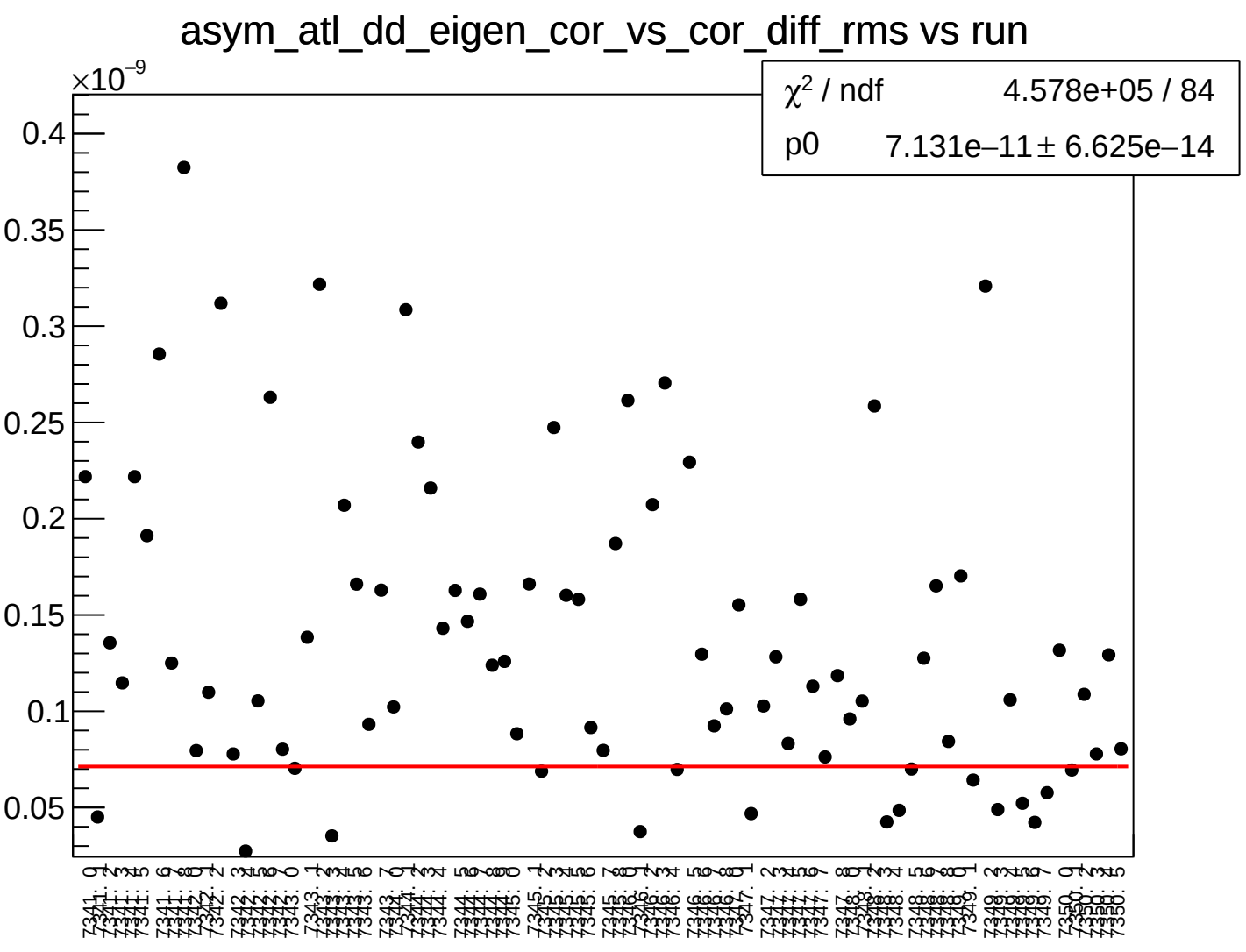

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.76 / 84
p0 0.1974 ± 1.055
pull
Entries 85
Mean −188.9
Std Dev 0
pull1D
Entries 85
Mean −0.01268
Std Dev 0.9564

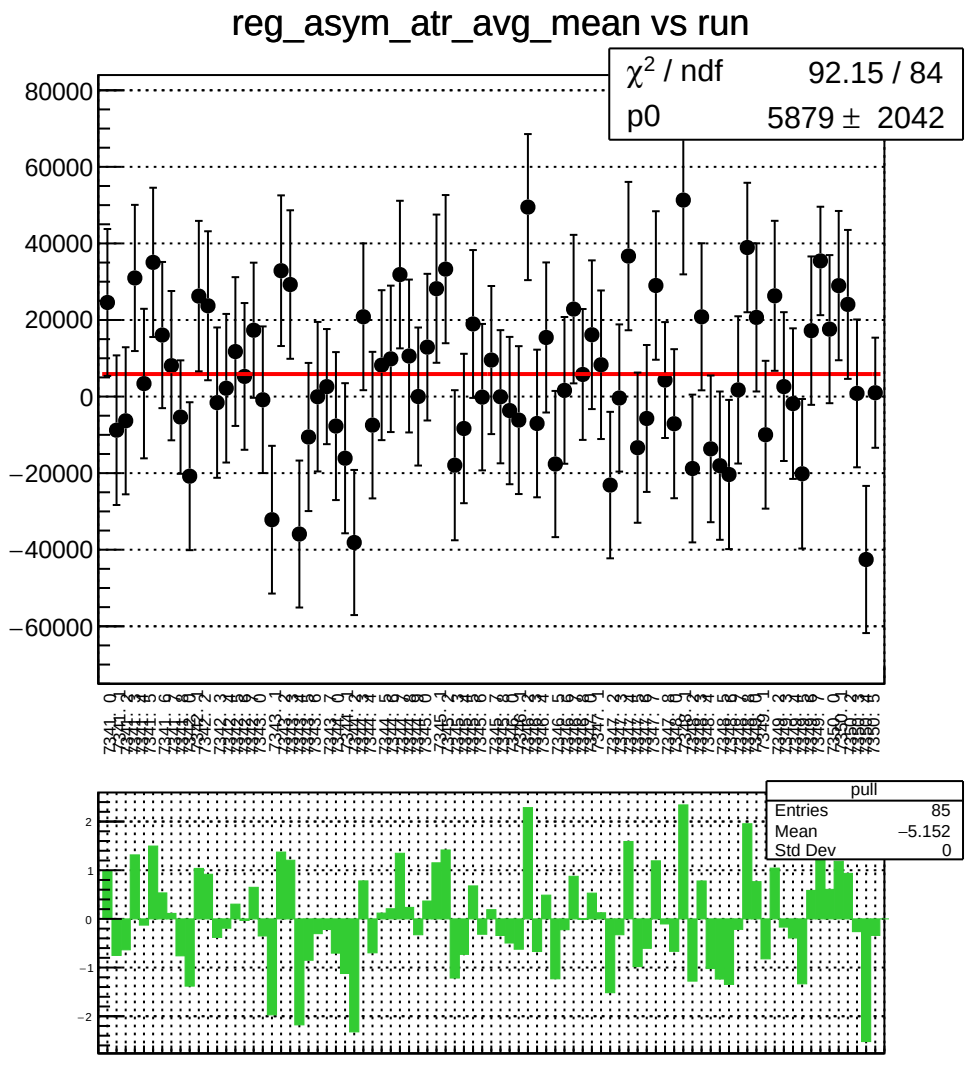

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.835e+04 / 84
p0 937.4 ± 0.7462
1500
1400
1300
1200
1100
1000
900
800
700

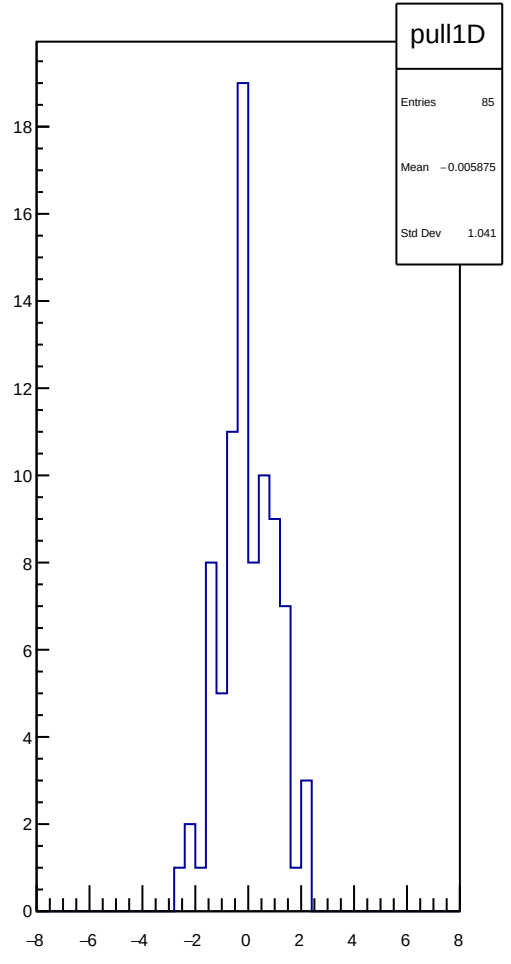

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.76 / 84
p0 0.1974 ± 1.055
pull
Entries 85
Mean −188.9
Std Dev 0
pull1D
Entries 85
Mean −0.01268
Std Dev 0.9564

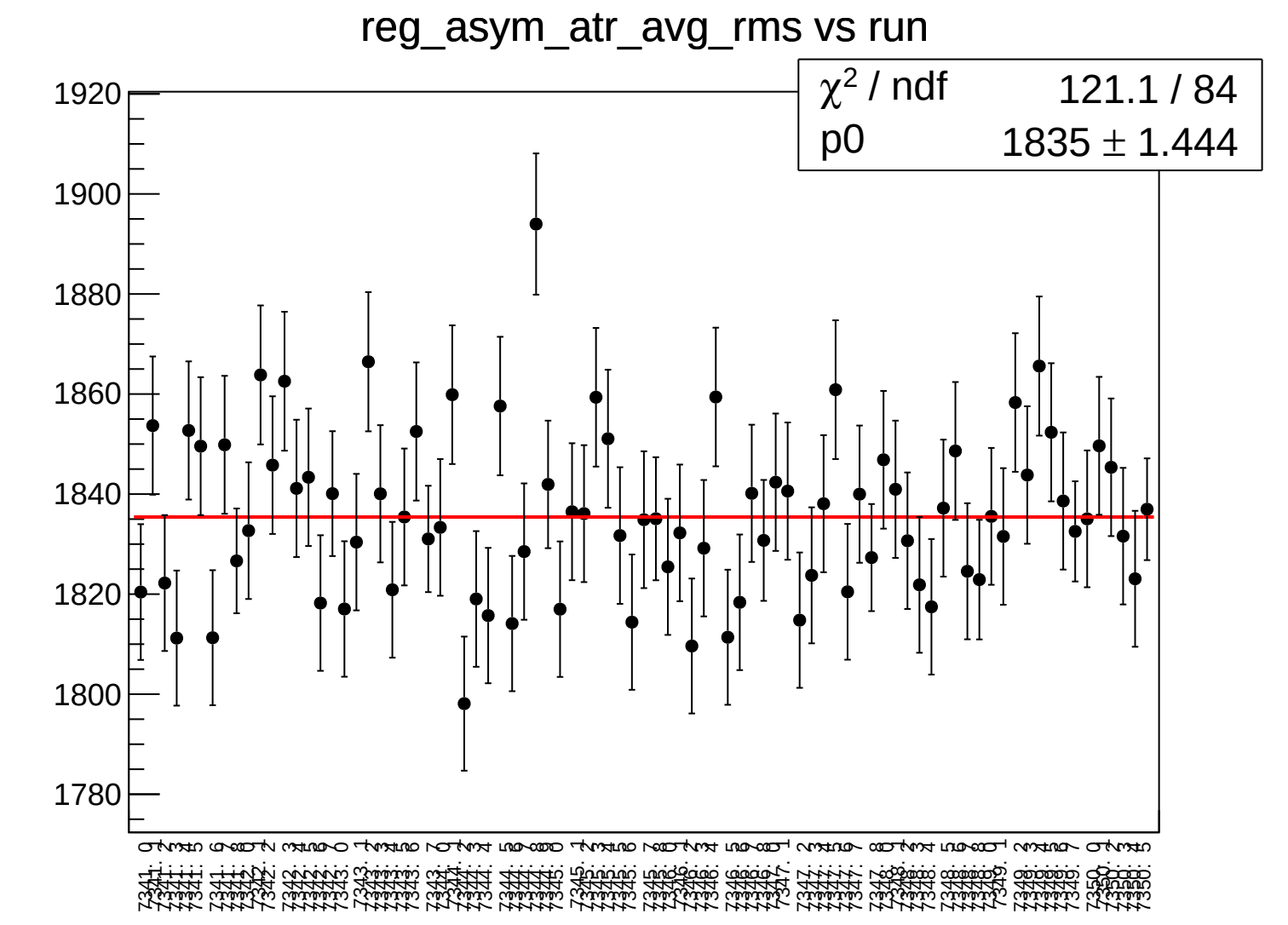

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.835e+04 / 84
p0 937.4 ± 0.7462
1500
1400
1300
1200
1100
1000
900
800
700

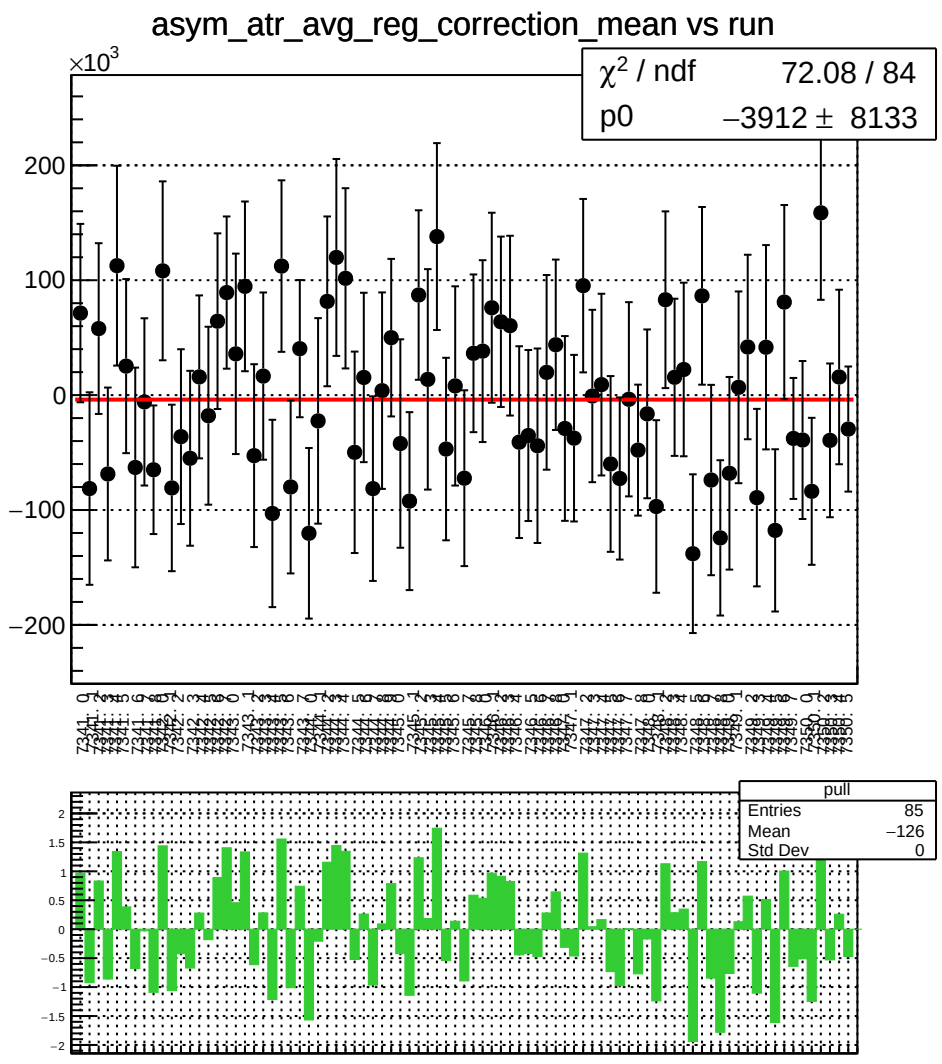

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.09 / 84
p0 −5.652e−14 ± 9.369e−14
pull
Entries 85
Mean 9.832
Std Dev 0
pull1D
Entries 85
Mean −0.02261
Std Dev 0.9884

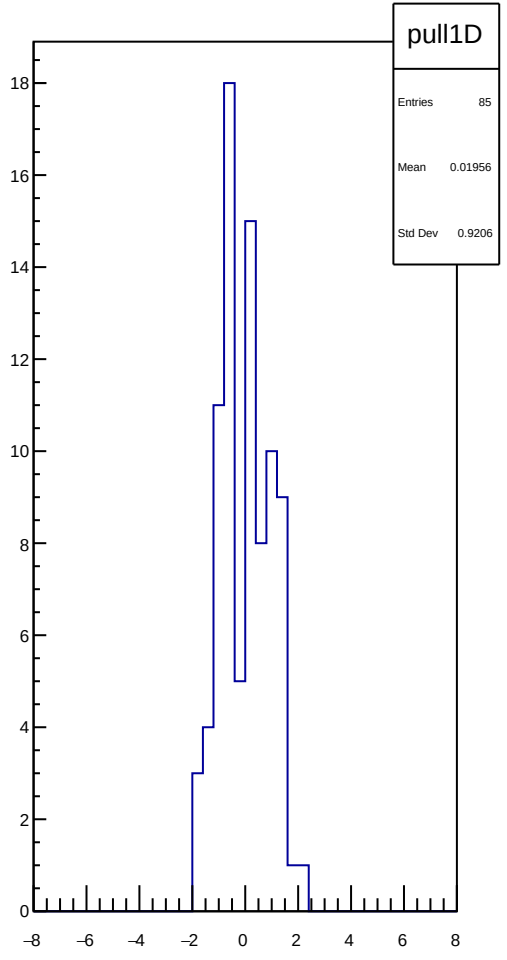

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.578e+05 / 84
p0 7.131e−11 ± 6.625e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

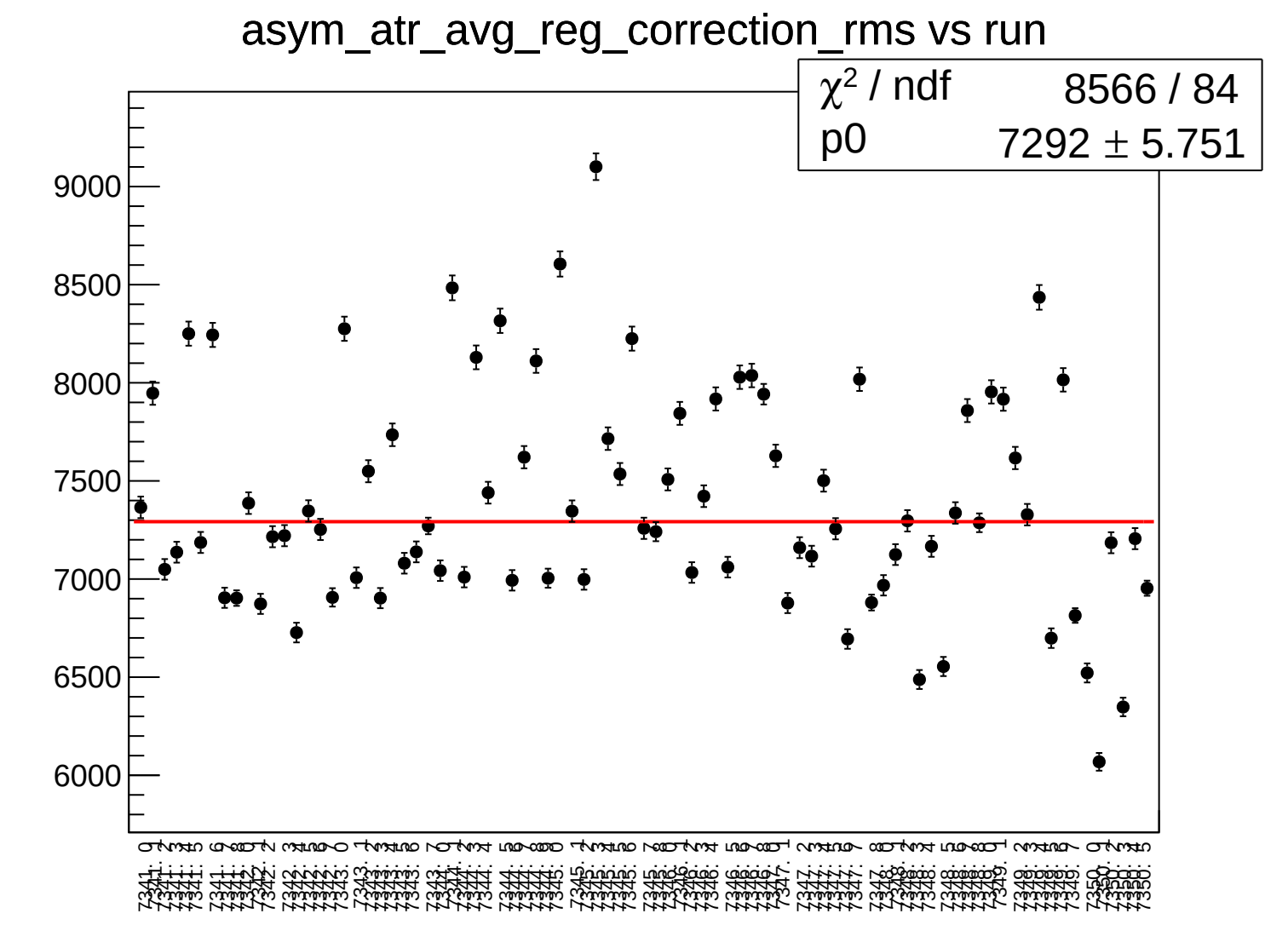

reg_asym_atr_avg_mean vs run
χ² / ndf 92.15 / 84
p0 5879 ± 2042
pull
Entries 85
Mean −5.152
Std Dev 0

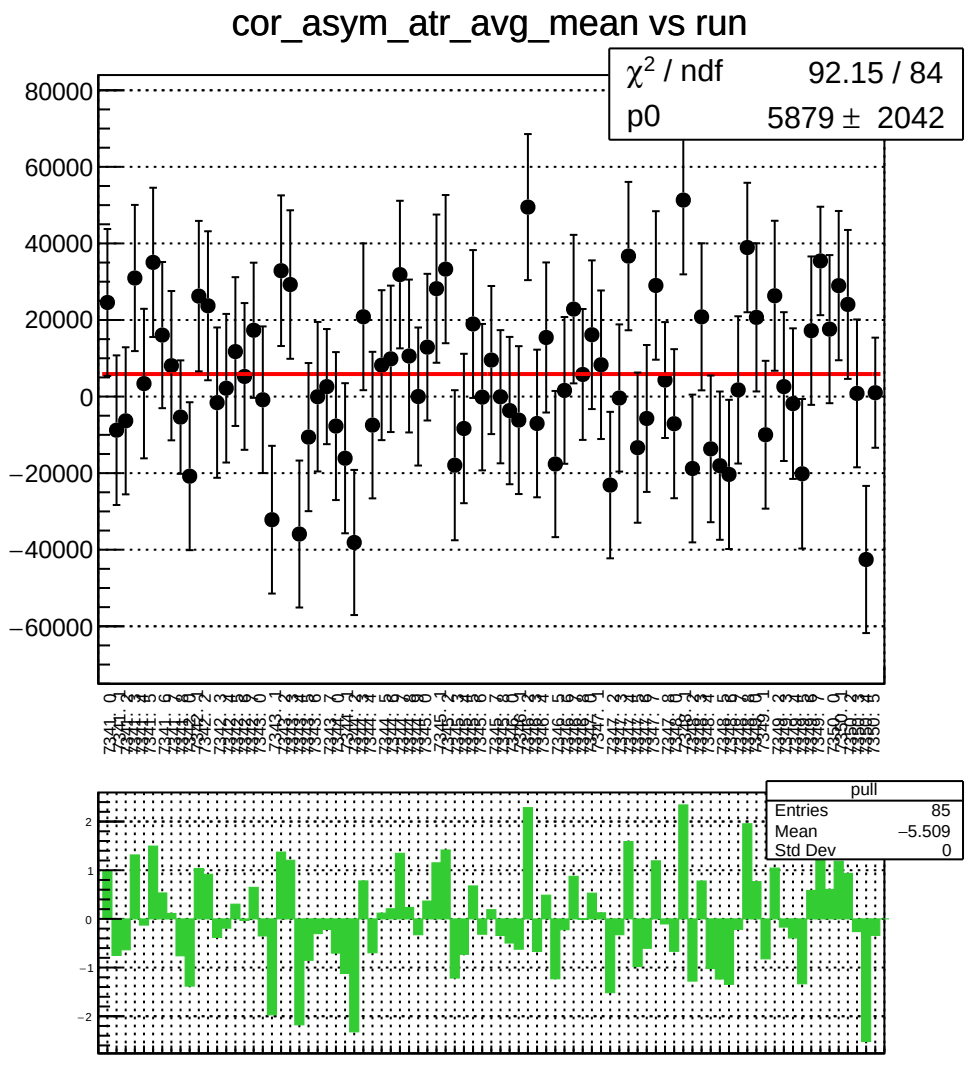

pull1D
Entries 85
Mean −0.005875
Std Dev 1.041

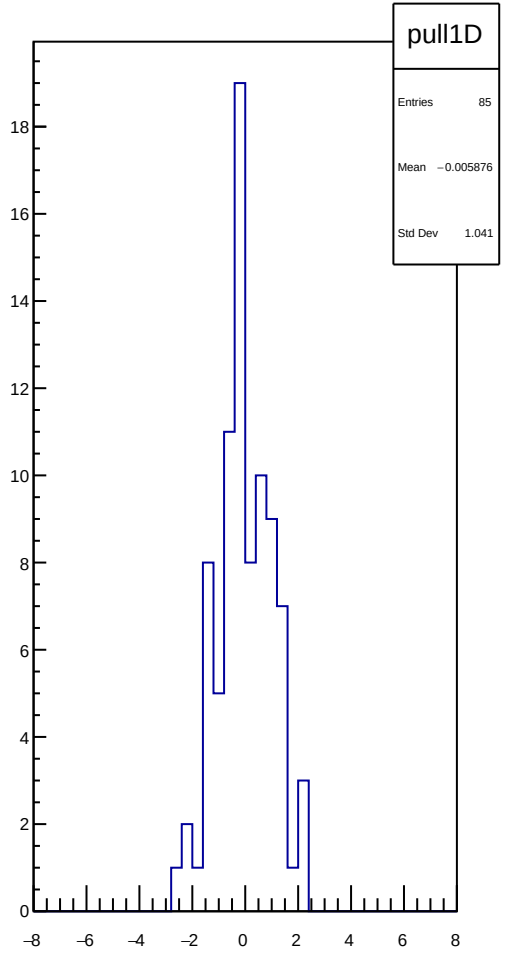

reg_asym_atr_avg_rms vs run
χ^2 / ndf 121.1 / 84
p0 1835 ± 1.444
1920
1900
1880
1860
1840
1820
1800
1780

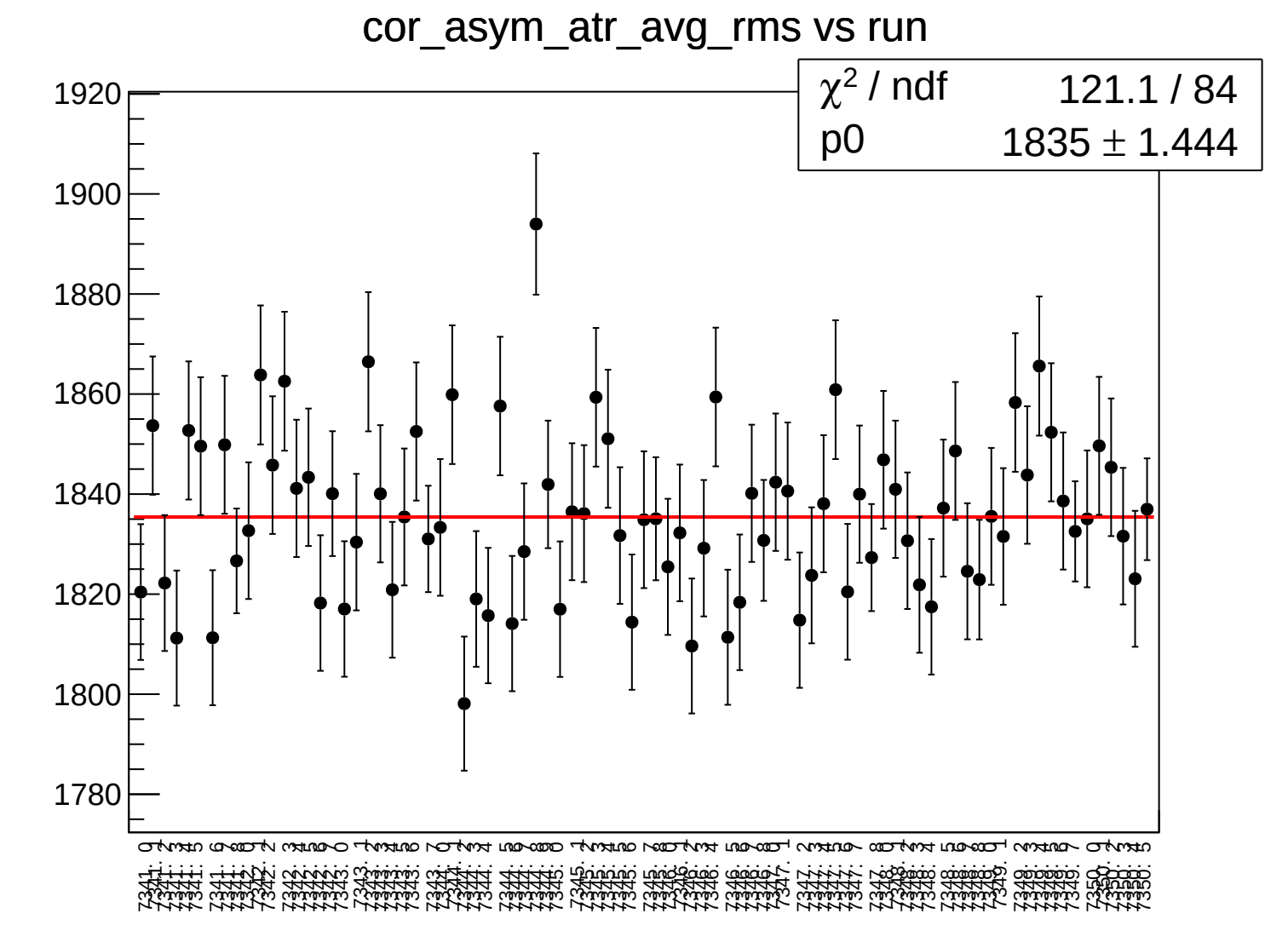

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.08 / 84
p0 −3912 ± 8133
200
100
0
−100
−200
pull
Entries 85
Mean −126
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

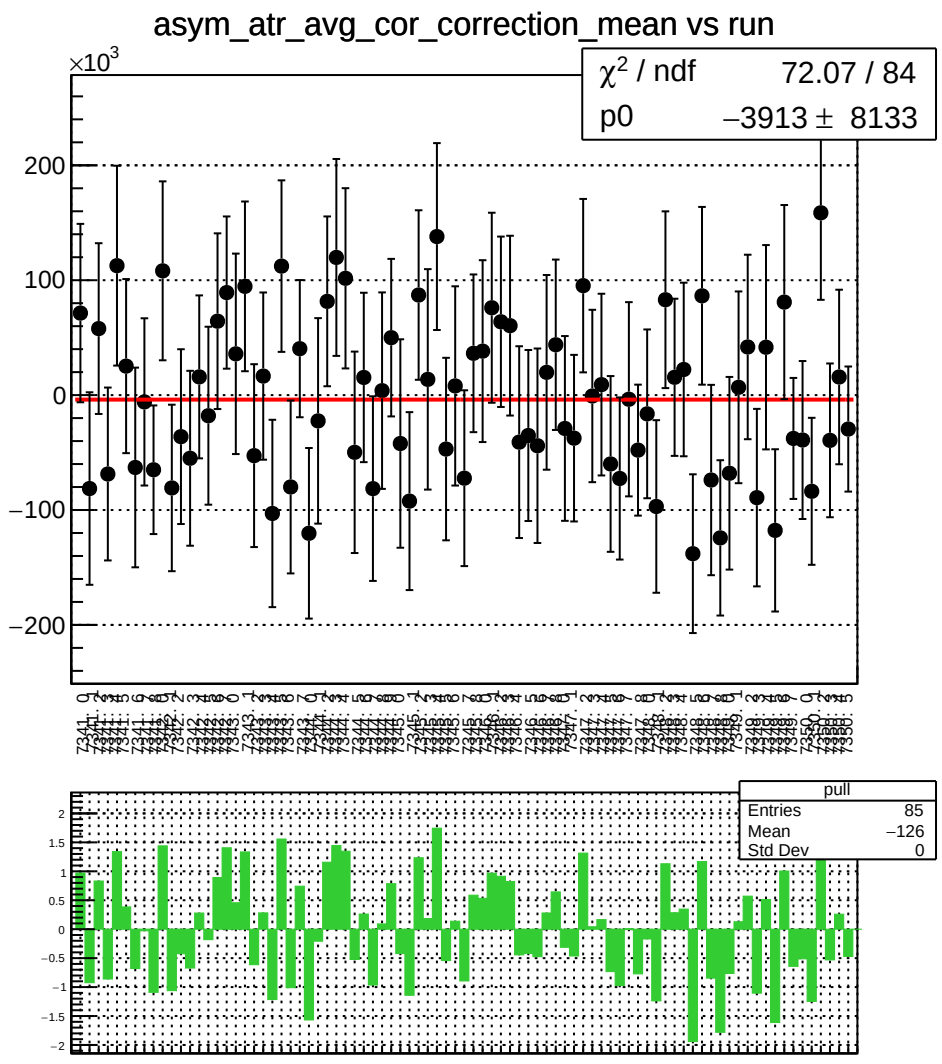

pull1D
Entries 85
Mean 0.01956
Std Dev 0.9206
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

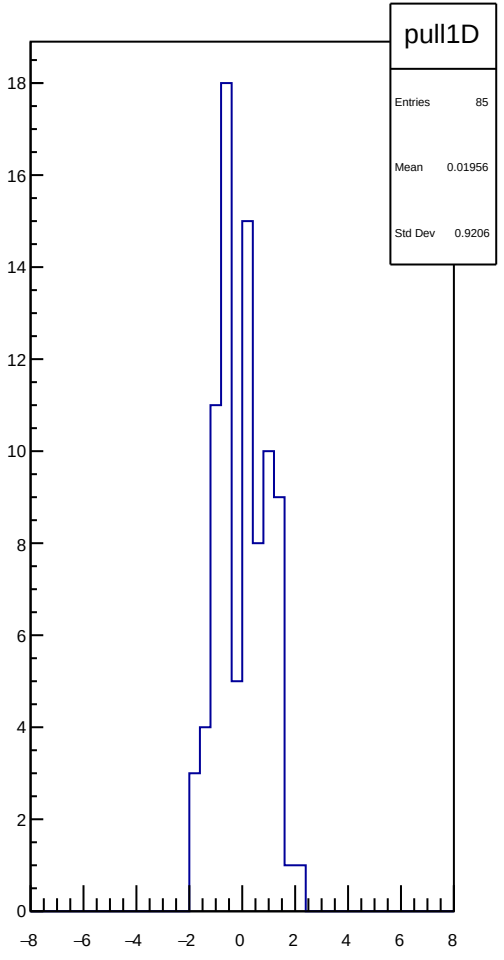

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 8566 / 84
p0 7292 ± 5.751
9000
8500
8000
7500
7000
6500
6000

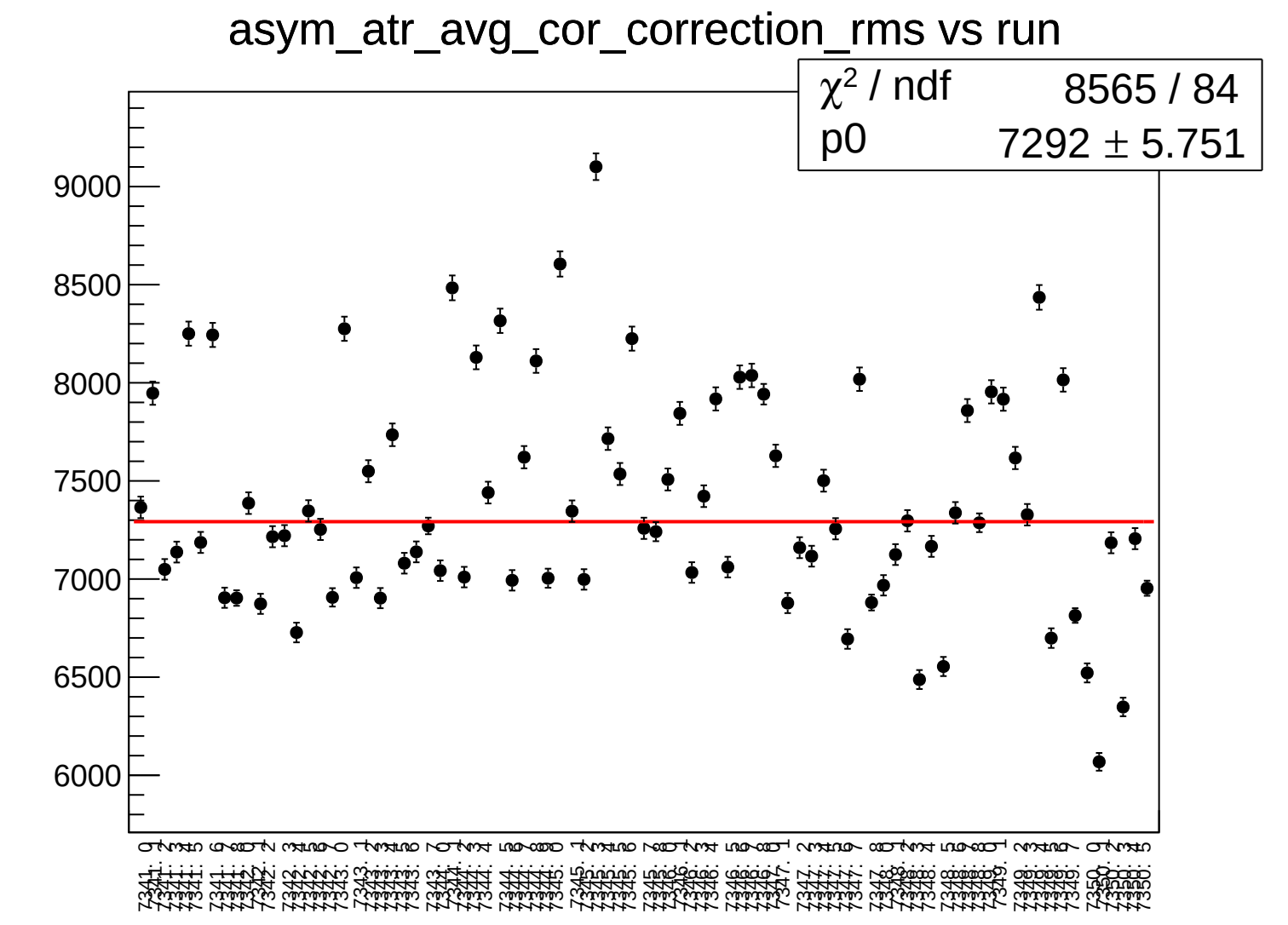

cor_asym_atr_avg_mean vs run
χ² / ndf 92.15 / 84
p0 5879 ± 2042
pull
Entries 85
Mean −5.509
Std Dev 0

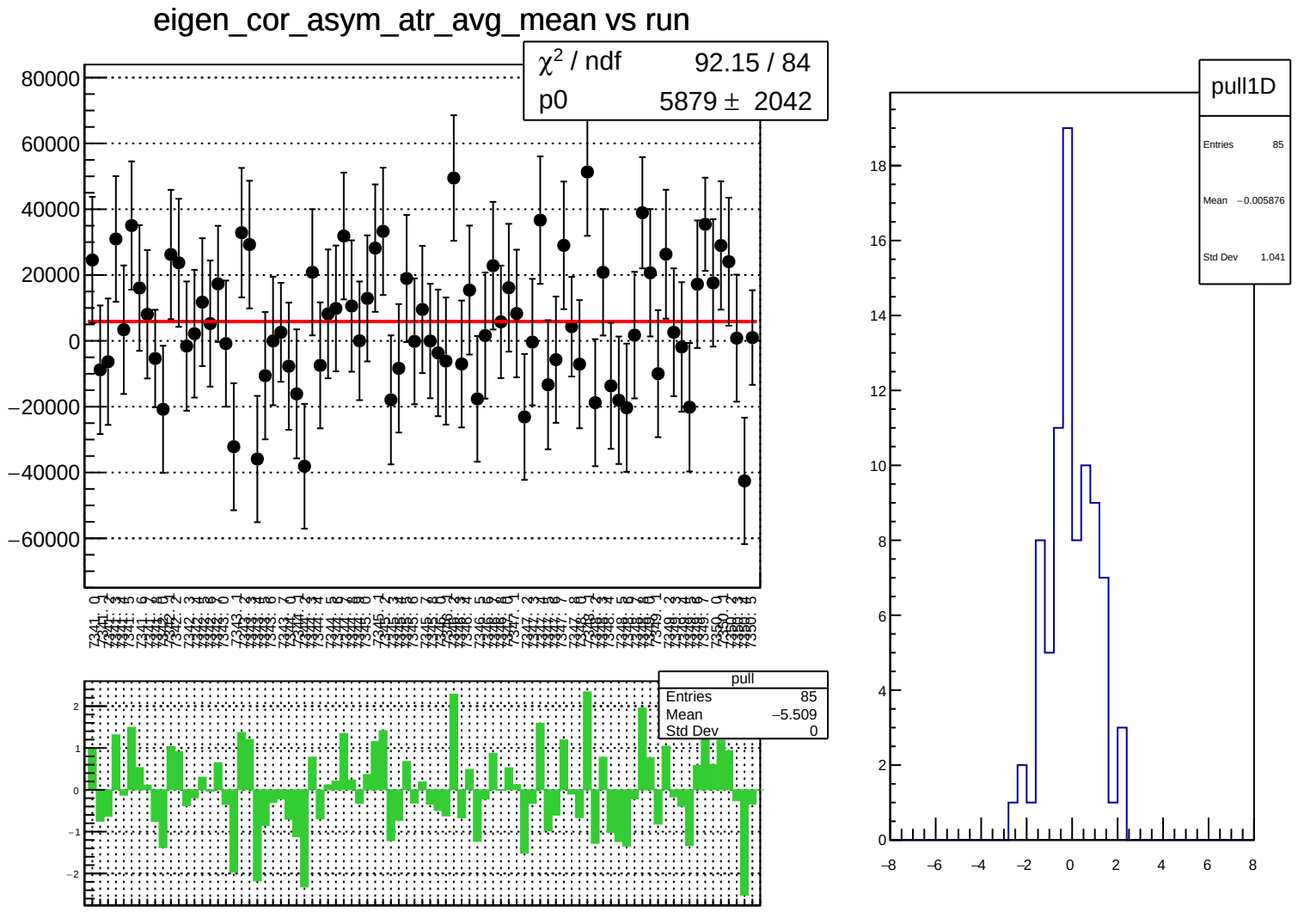

pull1D
Entries 85
Mean −0.005876
Std Dev 1.041

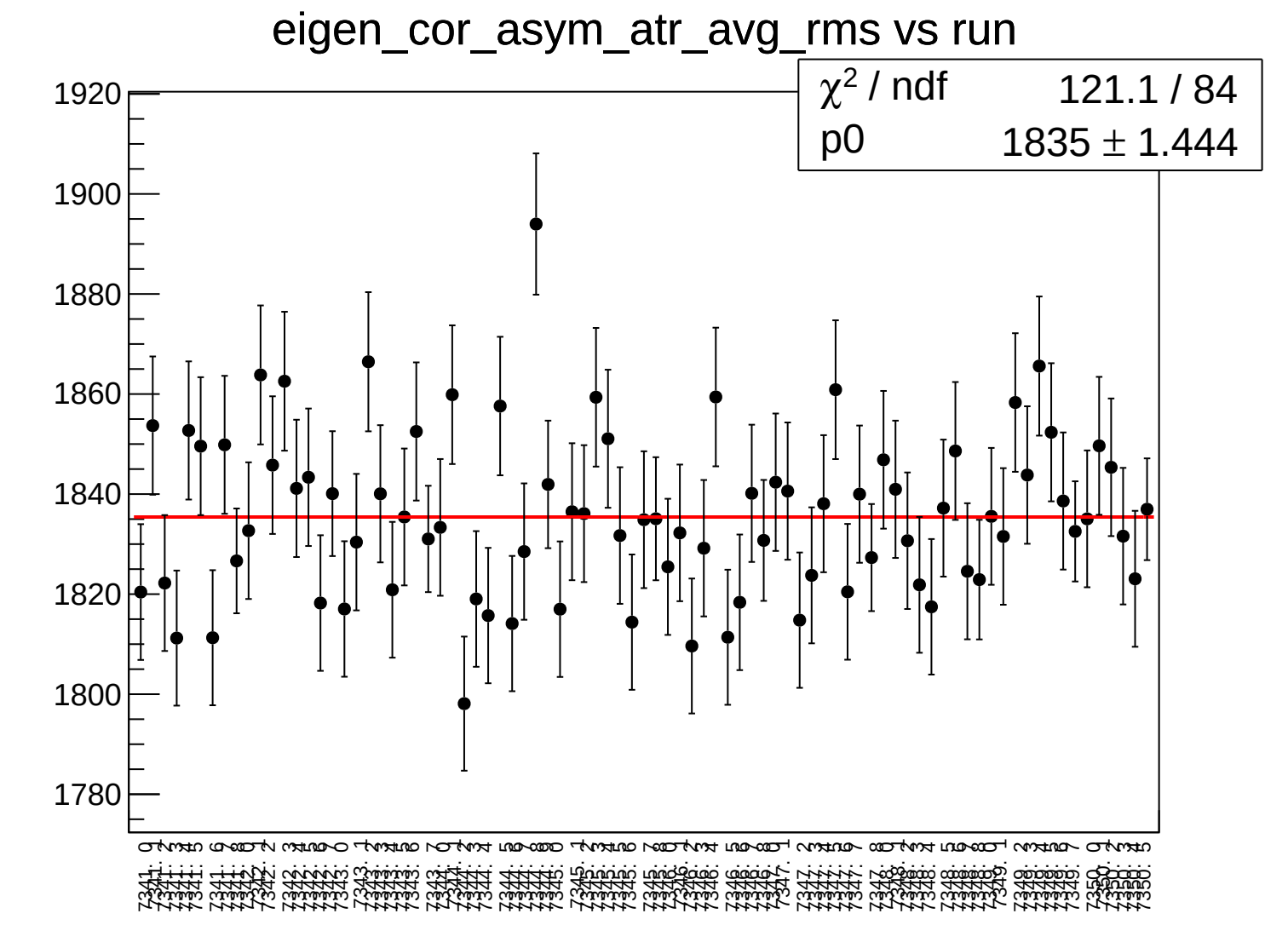

cor_asym_atr_avg_rms vs run
χ^2 / ndf 121.1 / 84
p0 1835 ± 1.444
1920
1900
1880
1860
1840
1820
1800
1780

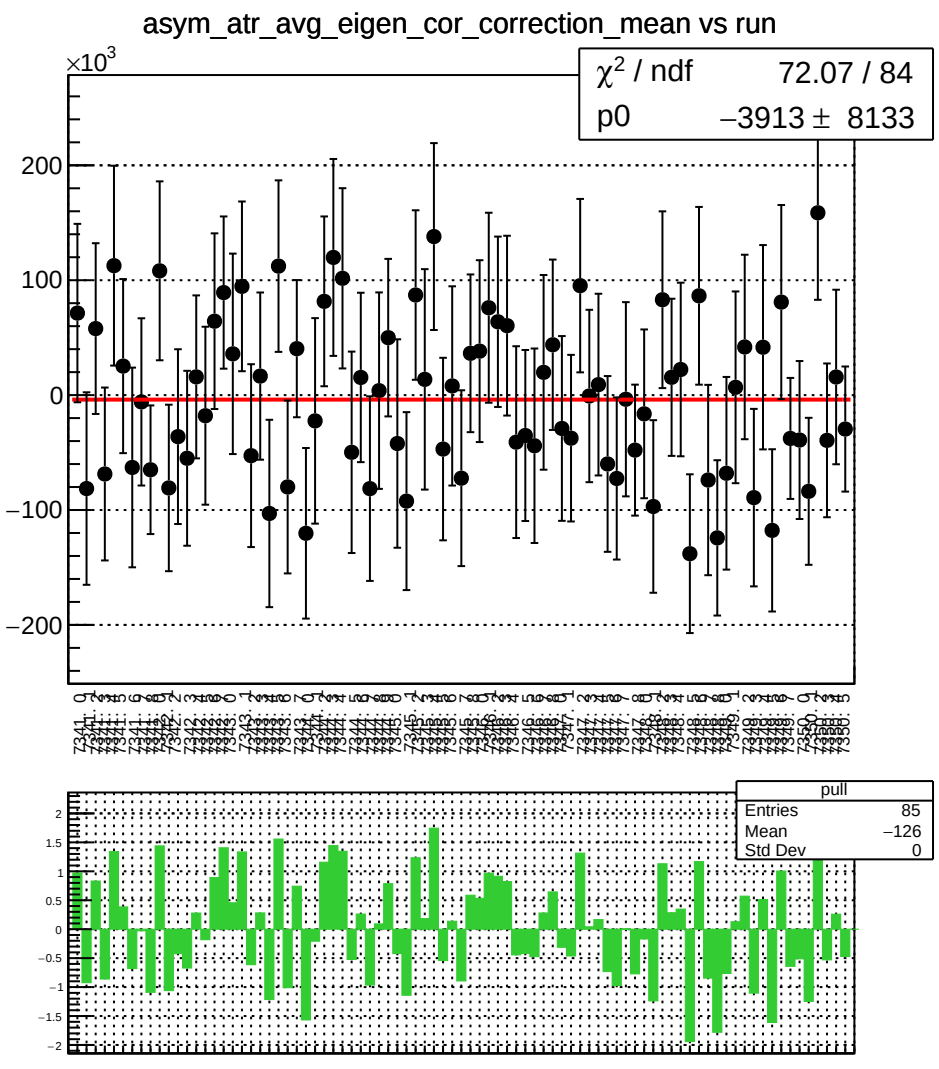

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 72.07 / 84
p0 −3913 ± 8133
pull
Entries 85
Mean −126
Std Dev 0

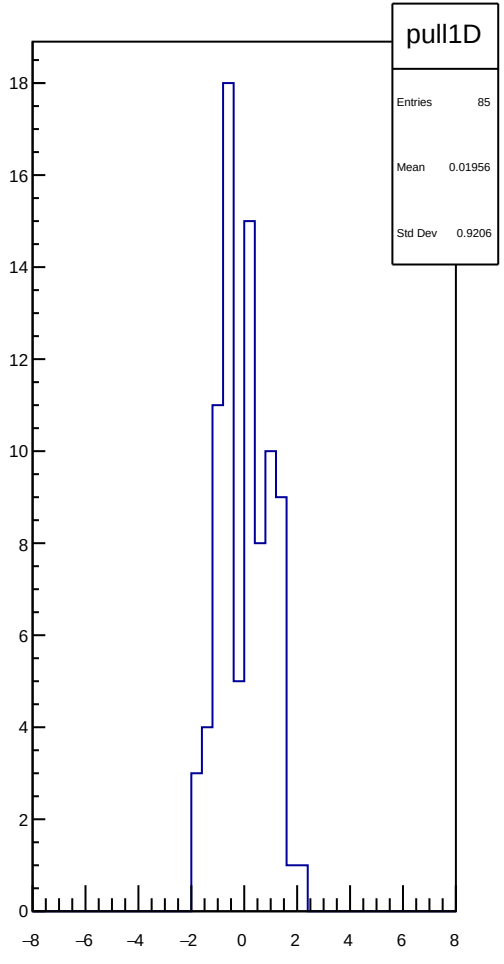

pull1D
Entries 85
Mean 0.01956
Std Dev 0.9206

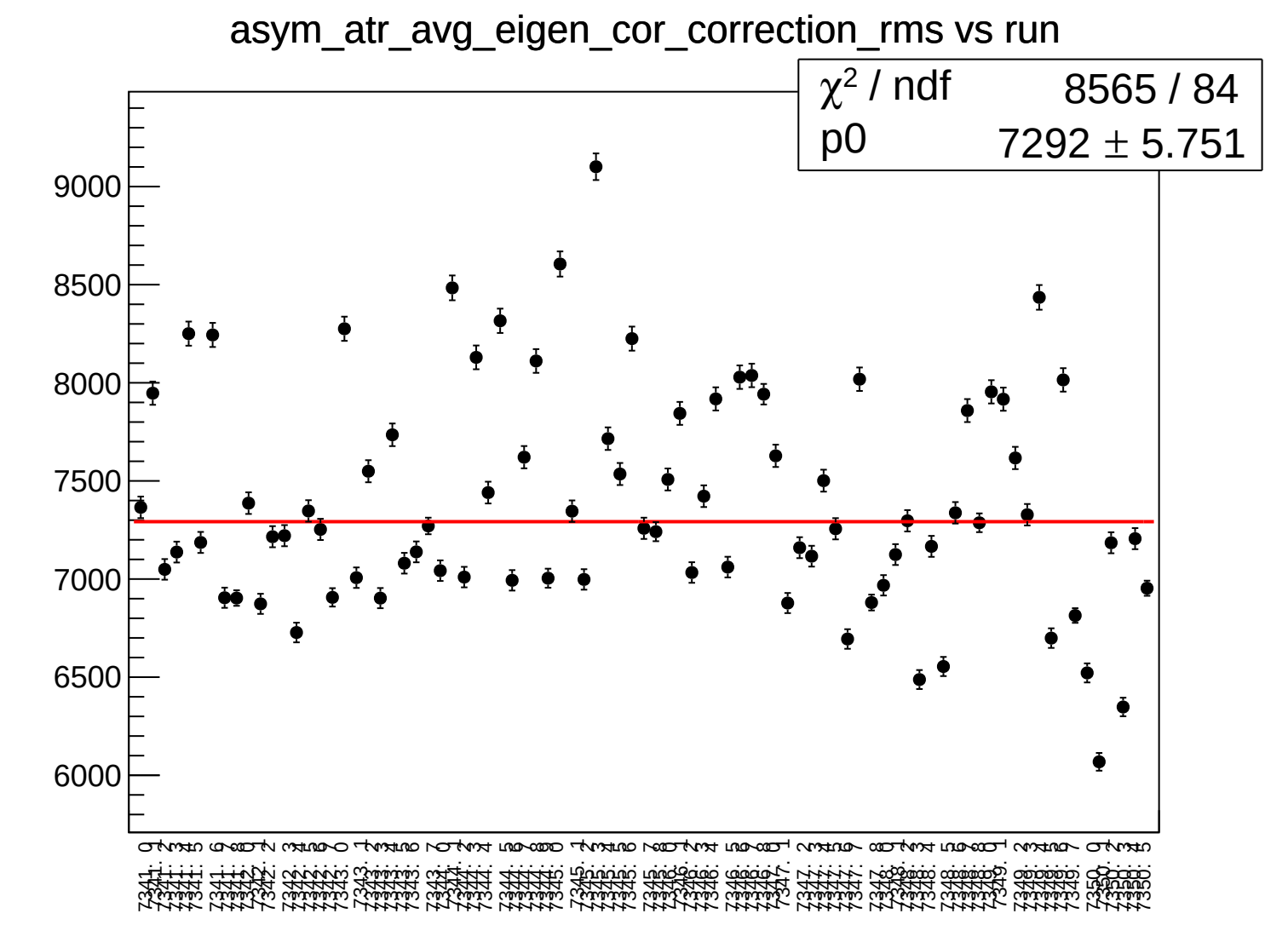

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 8565 / 84
p0 7292 ± 5.751
9000
8500
8000
7500
7000
6500
6000

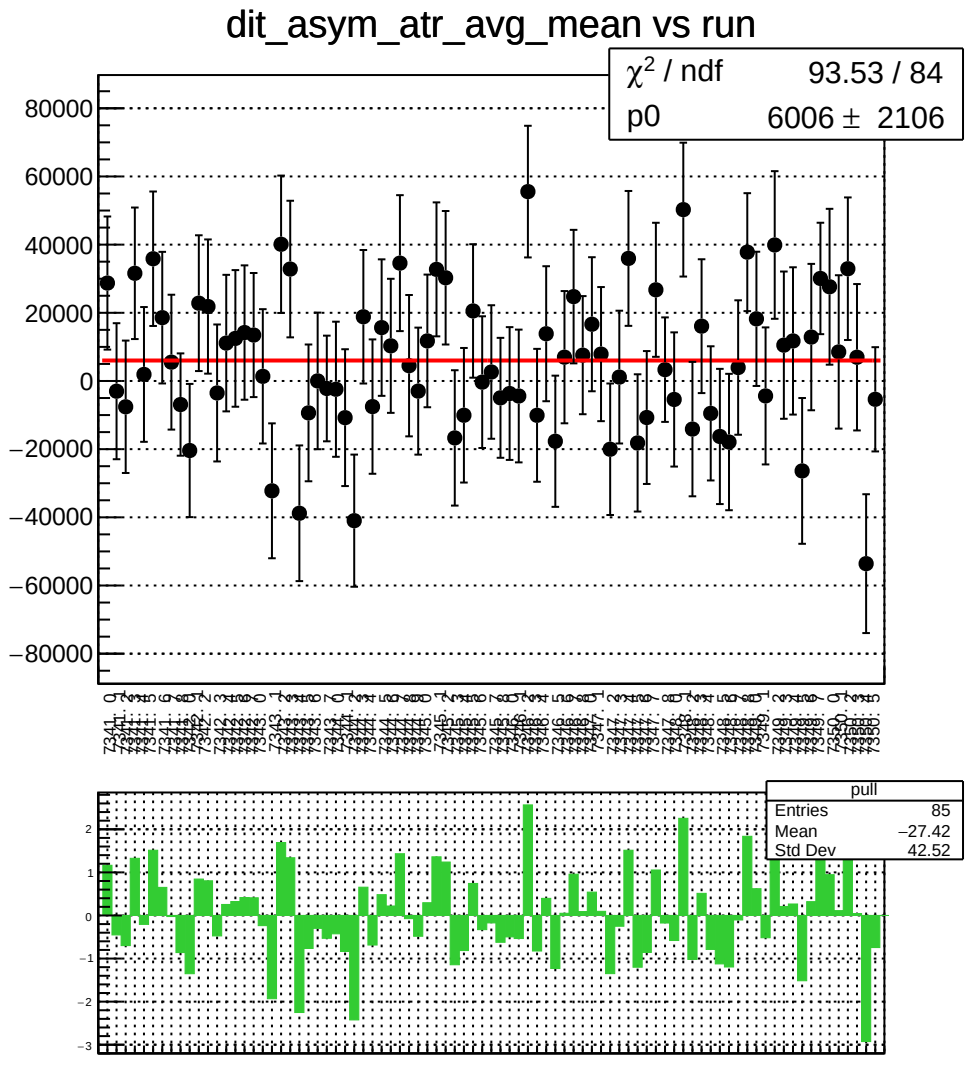

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 92.15 / 84
p0 5879 ± 2042
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −5.509
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.005876
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

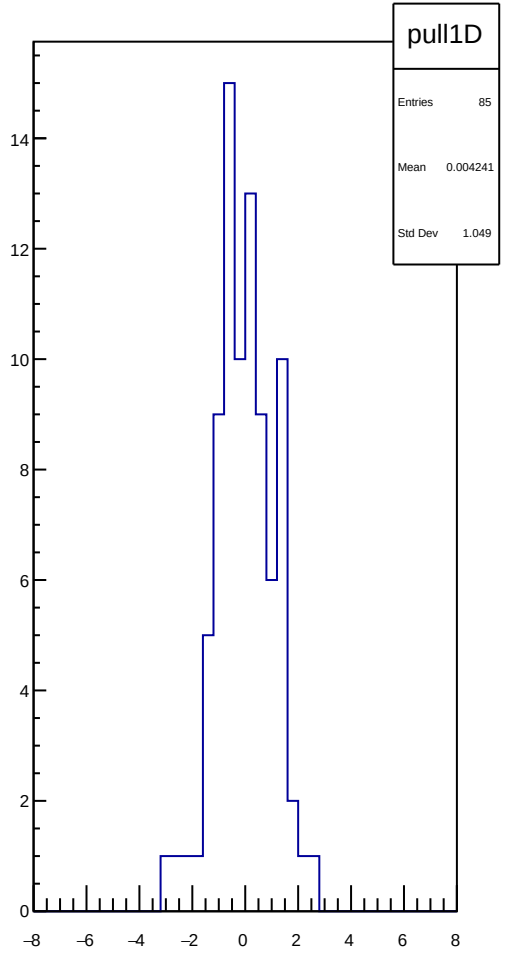

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 121.1 / 84
p0 1835 ± 1.444
1920
1900
1880
1860
1840
1820
1800
1780

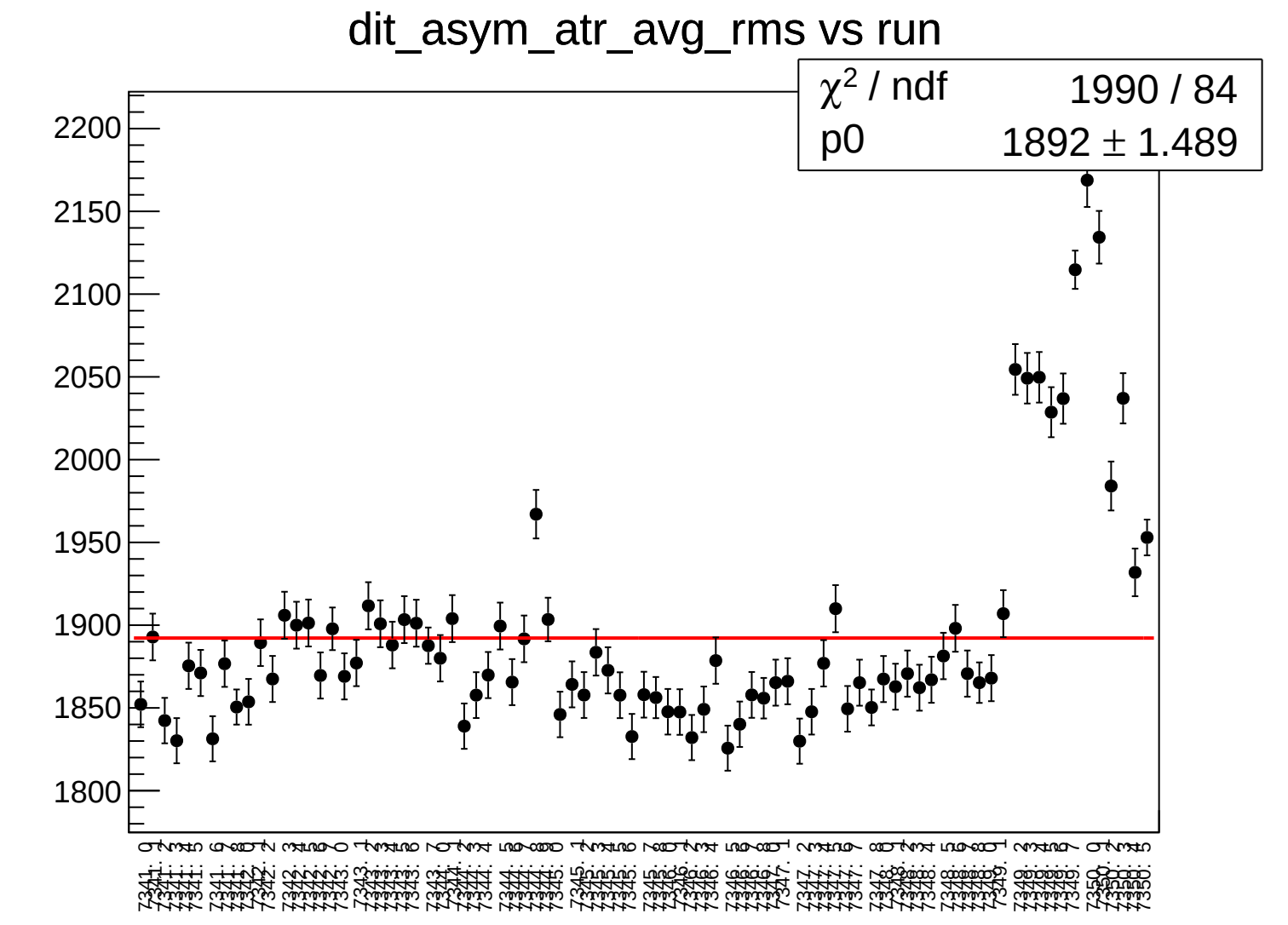

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.07 / 84
p0 −3913 ± 8133
×10³
200
100
0
−100
−200
pull
Entries 85
Mean −126
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

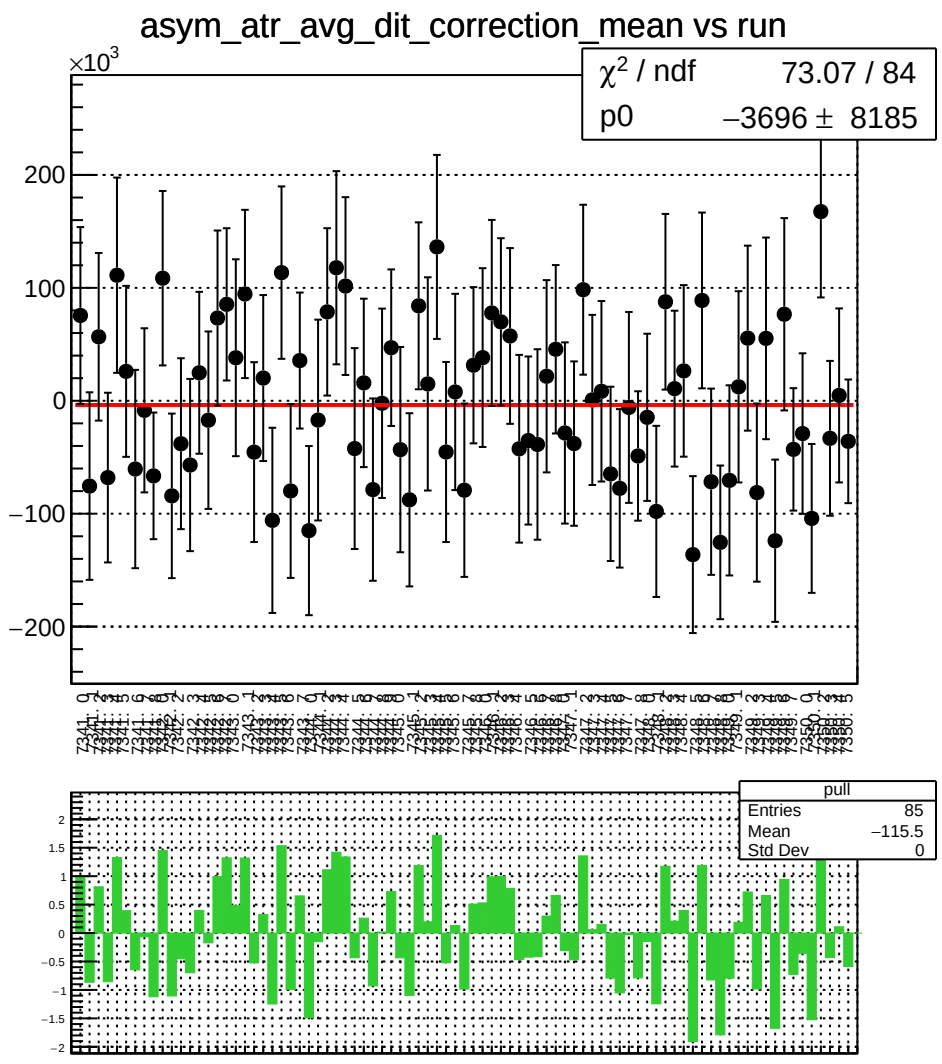

pull1D
Entries 85
Mean 0.01956
Std Dev 0.9206
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

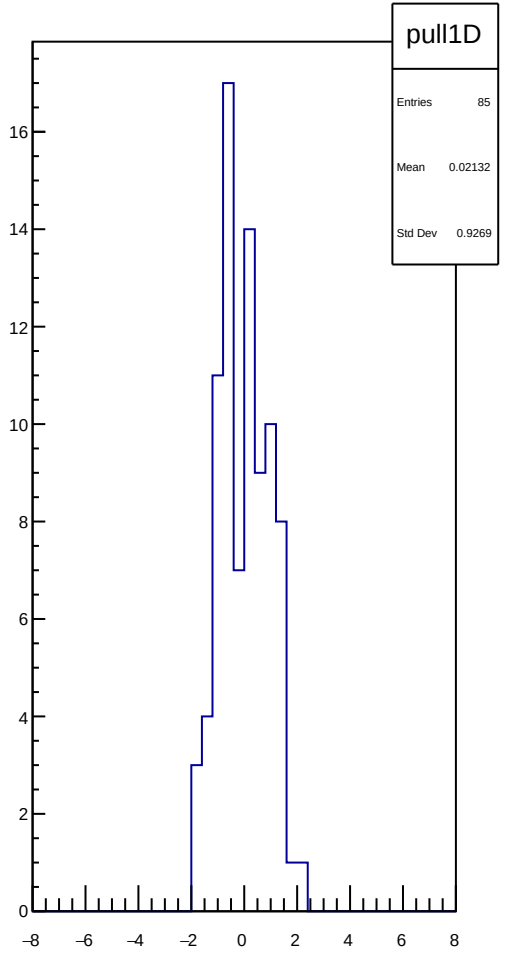

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 8565 / 84
p0 7292 ± 5.751
9000
8500
8000
7500
7000
6500
6000

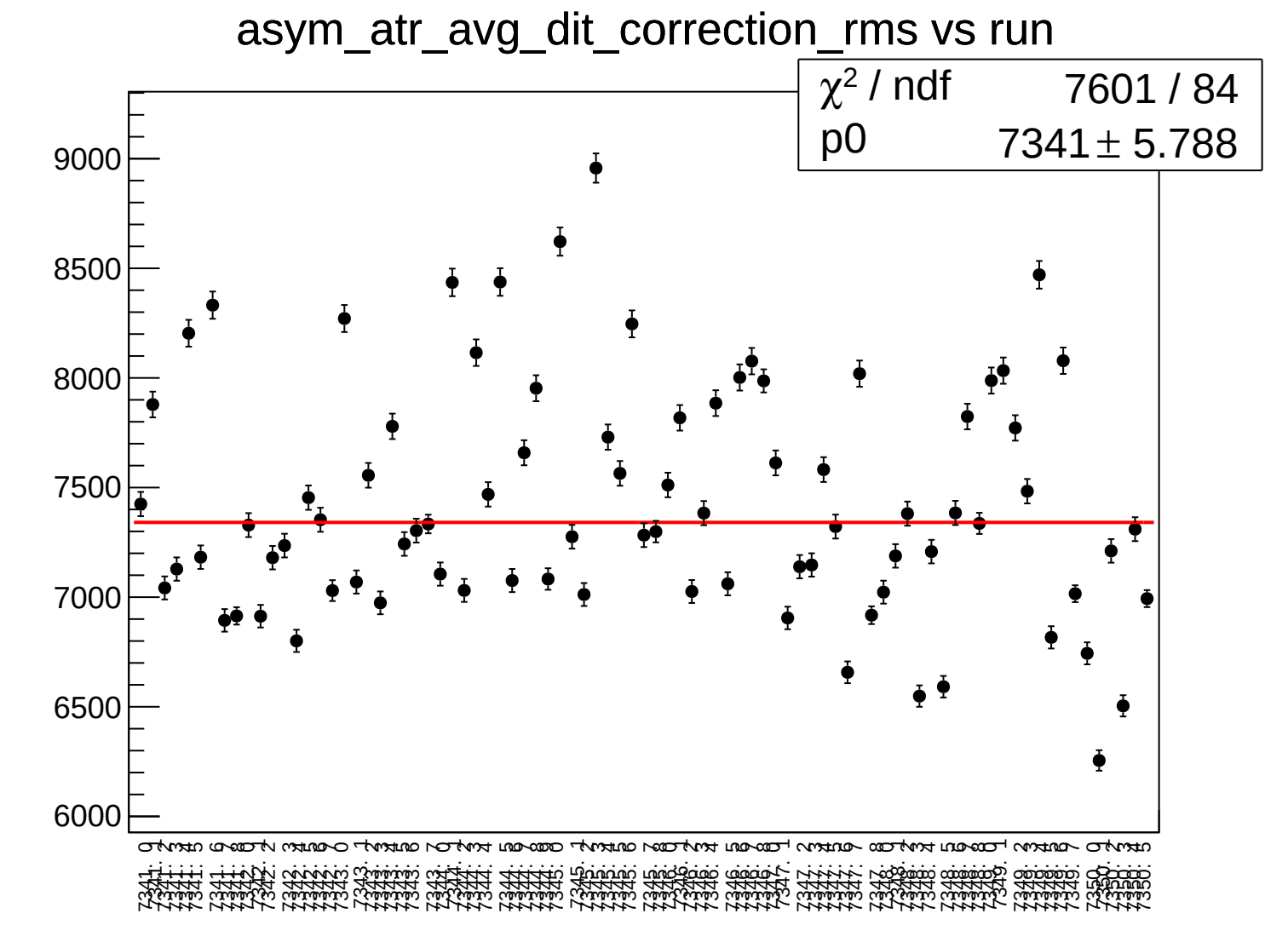

dit_asym_atr_avg_mean vs run
χ² / ndf 93.53 / 84
p0 6006 ± 2106
pull
Entries 85
Mean −27.42
Std Dev 42.52

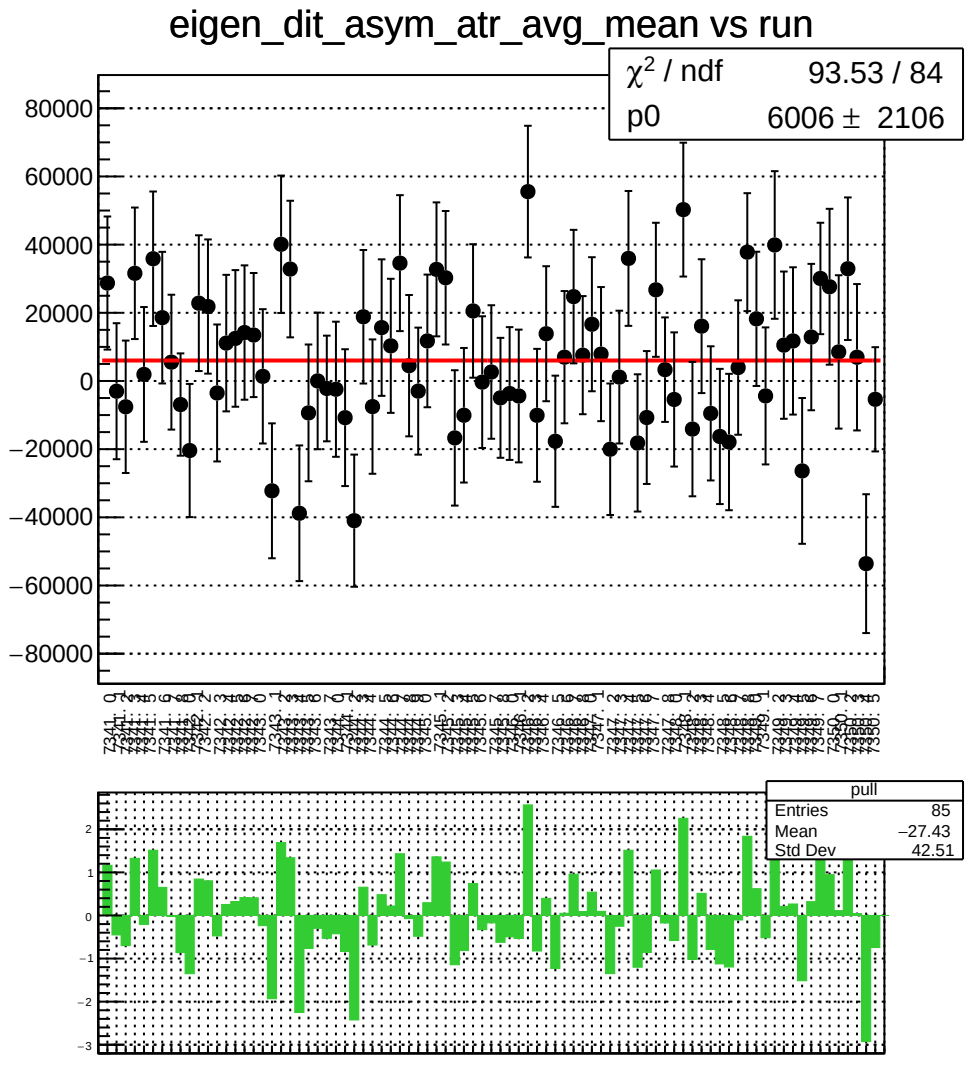

pull1D
Entries 85
Mean 0.004241
Std Dev 1.049

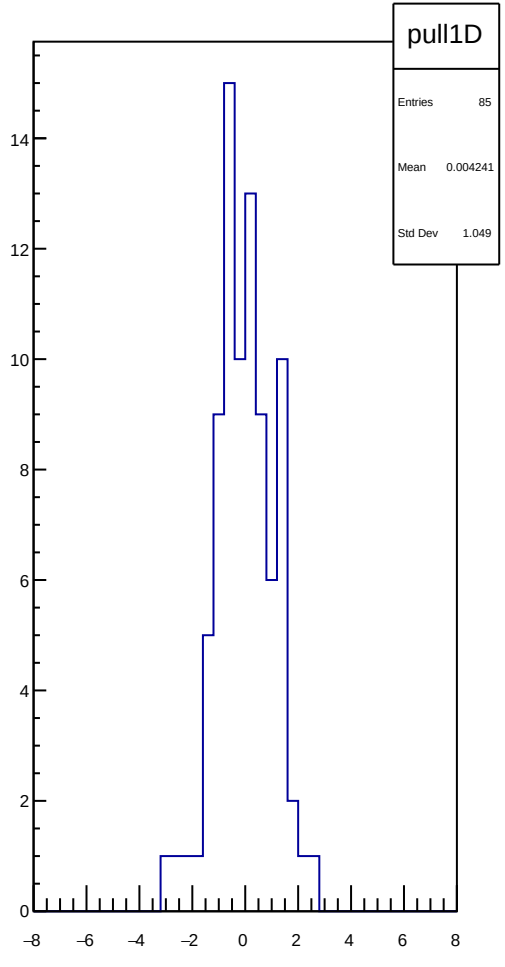

dit_asym_atr_avg_rms vs run
χ^2 / ndf 1990 / 84
p0 1892 ± 1.489
2200
2150
2100
2050
2000
1950
1900
1850
1800

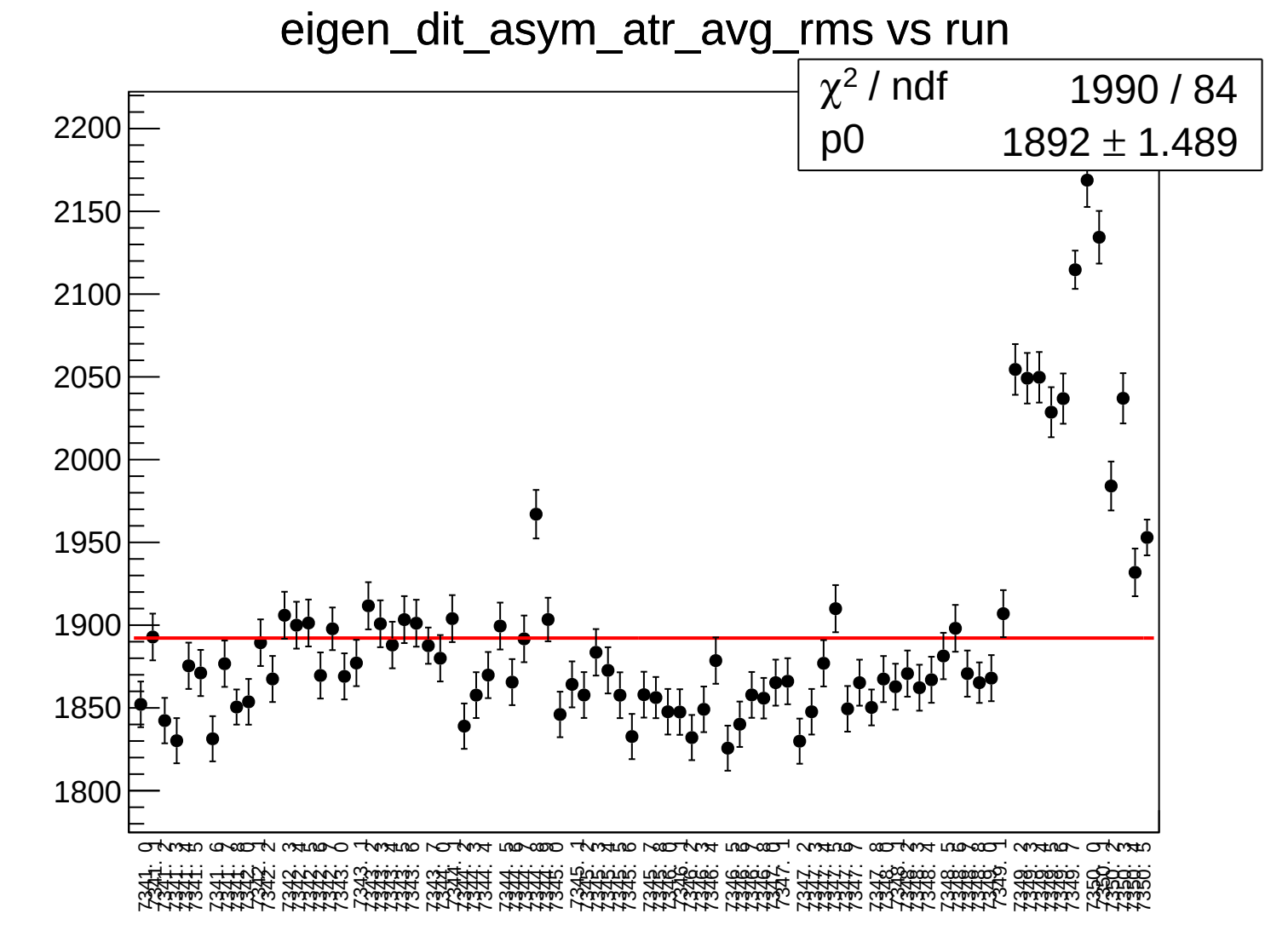

asym_atr_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 73.07 / 84
p0 −3696 ± 8185
200
100
0
−100
−200
pull
Entries 85
Mean −115.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

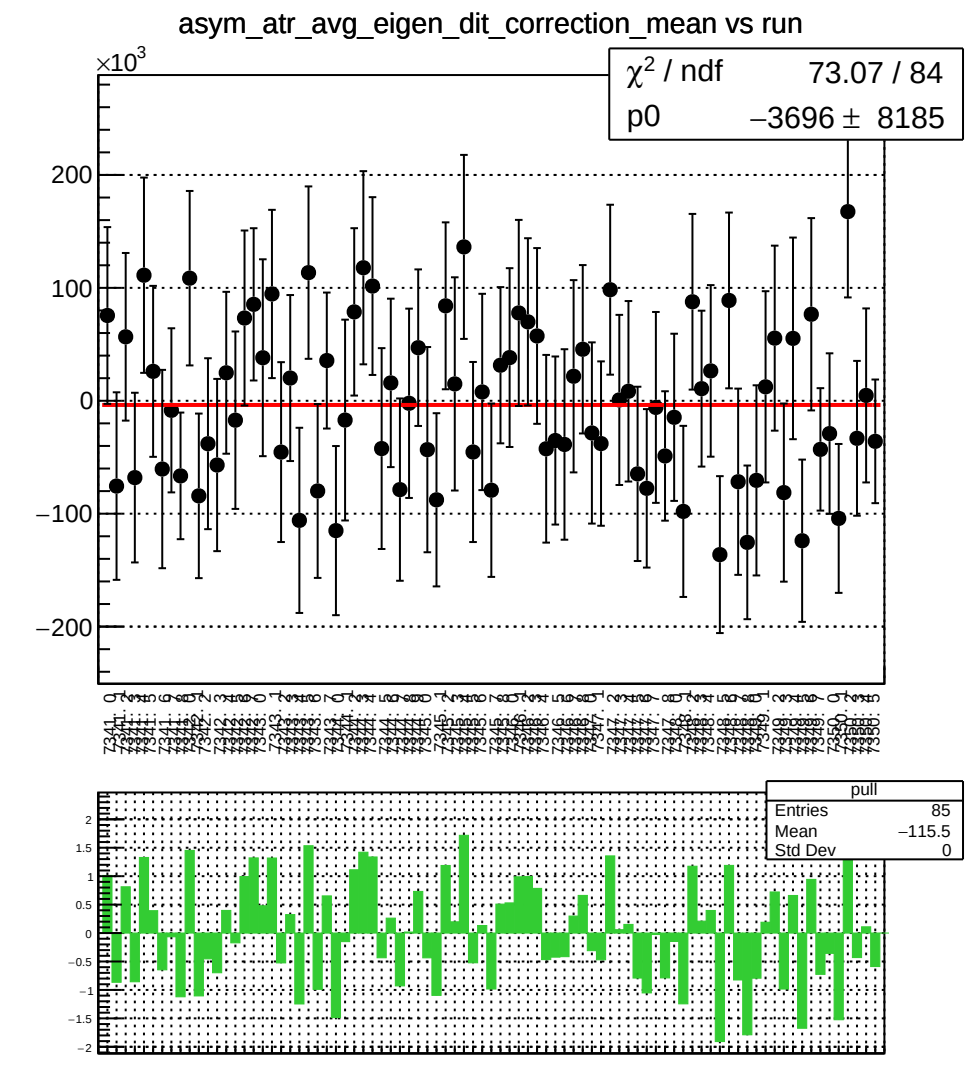

pull1D
Entries 85
Mean 0.02132
Std Dev 0.9269
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

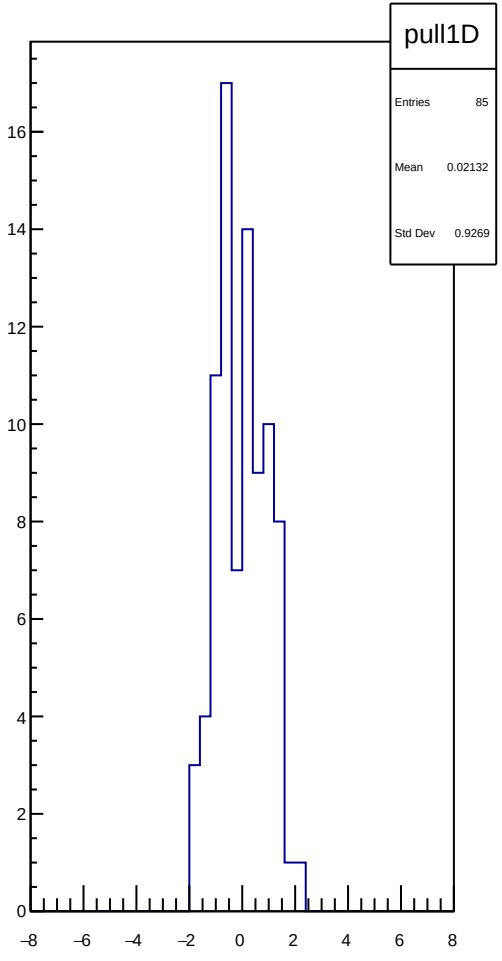

asym_atr_avg_dit_correction_rms vs run
χ^2 / ndf 7601 / 84
p0 7341 ± 5.788
9000
8500
8000
7500
7000
6500
6000

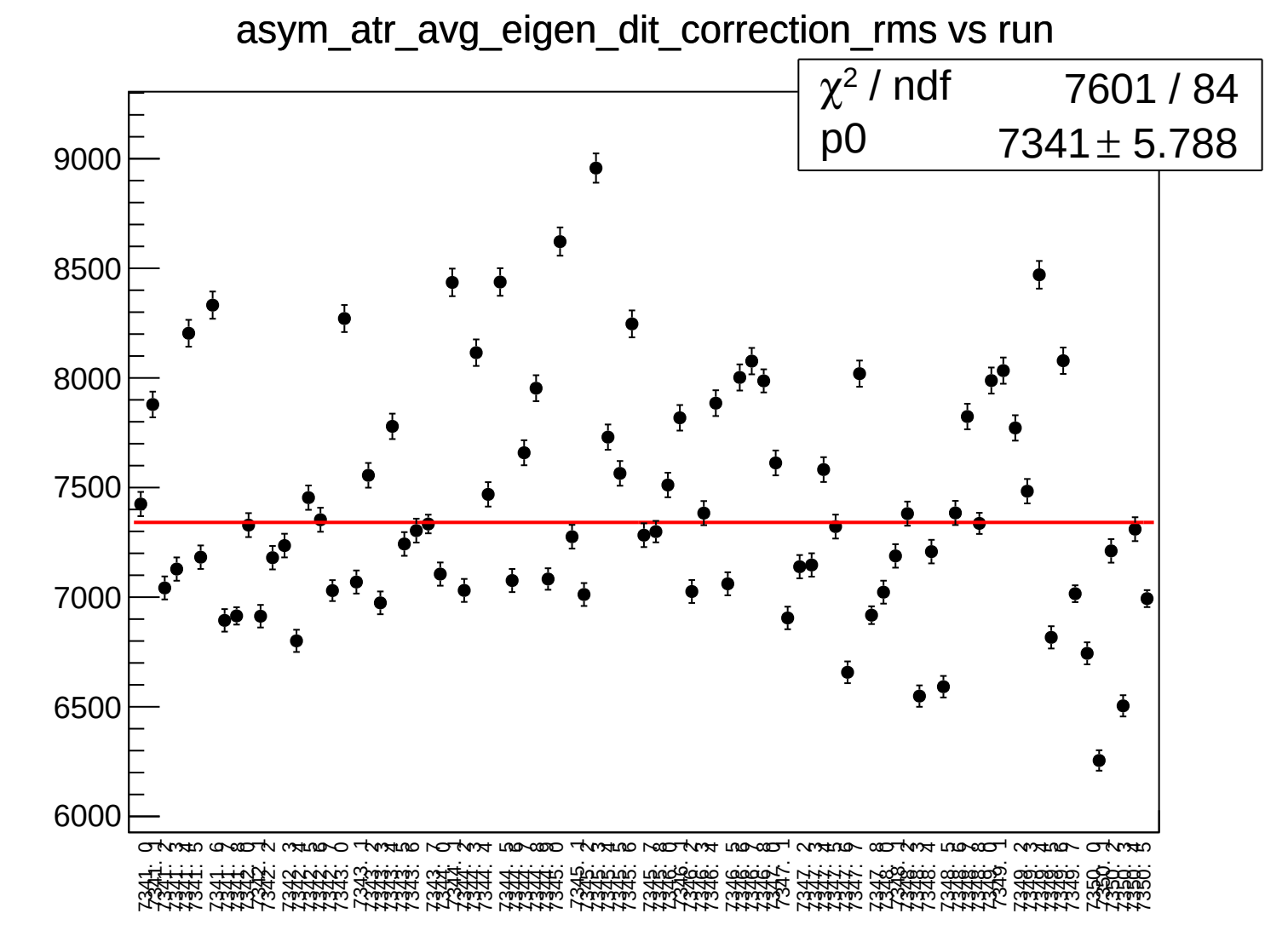

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 93.53 / 84
p0 6006 ± 2106
pull
Entries 85
Mean −27.43
Std Dev 42.51

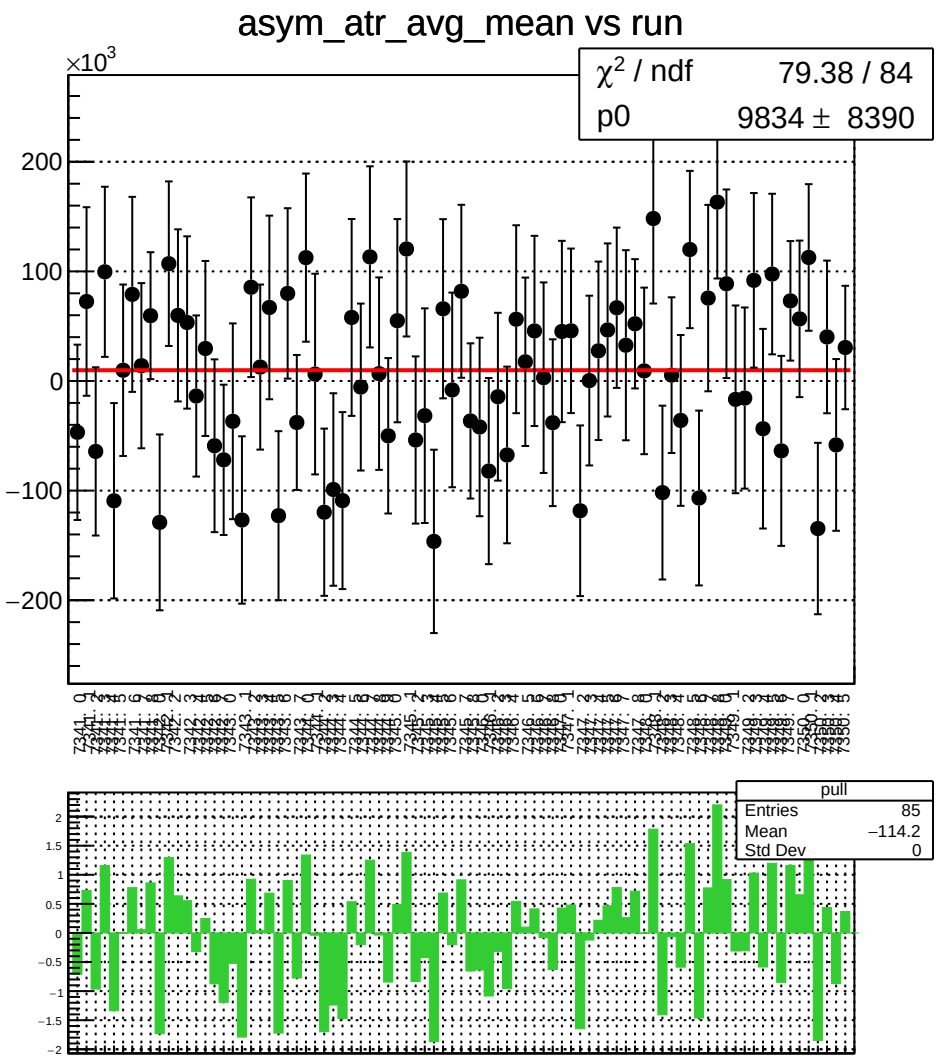

pull1D
Entries 85
Mean 0.004241
Std Dev 1.049

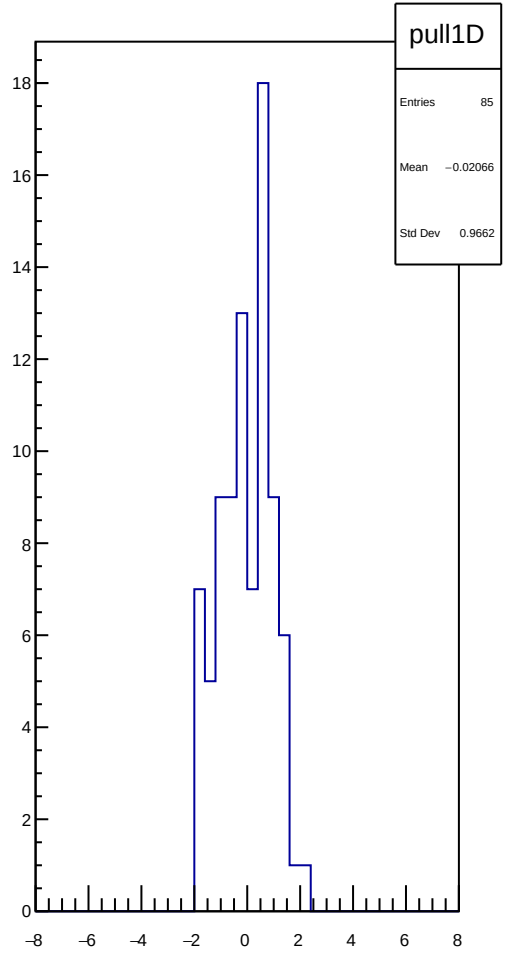

eigen_dit_asym_atr_avg_rms vs run
χ^2 / ndf 1990 / 84
p0 1892 ± 1.489
2200
2150
2100
2050
2000
1950
1900
1850
1800

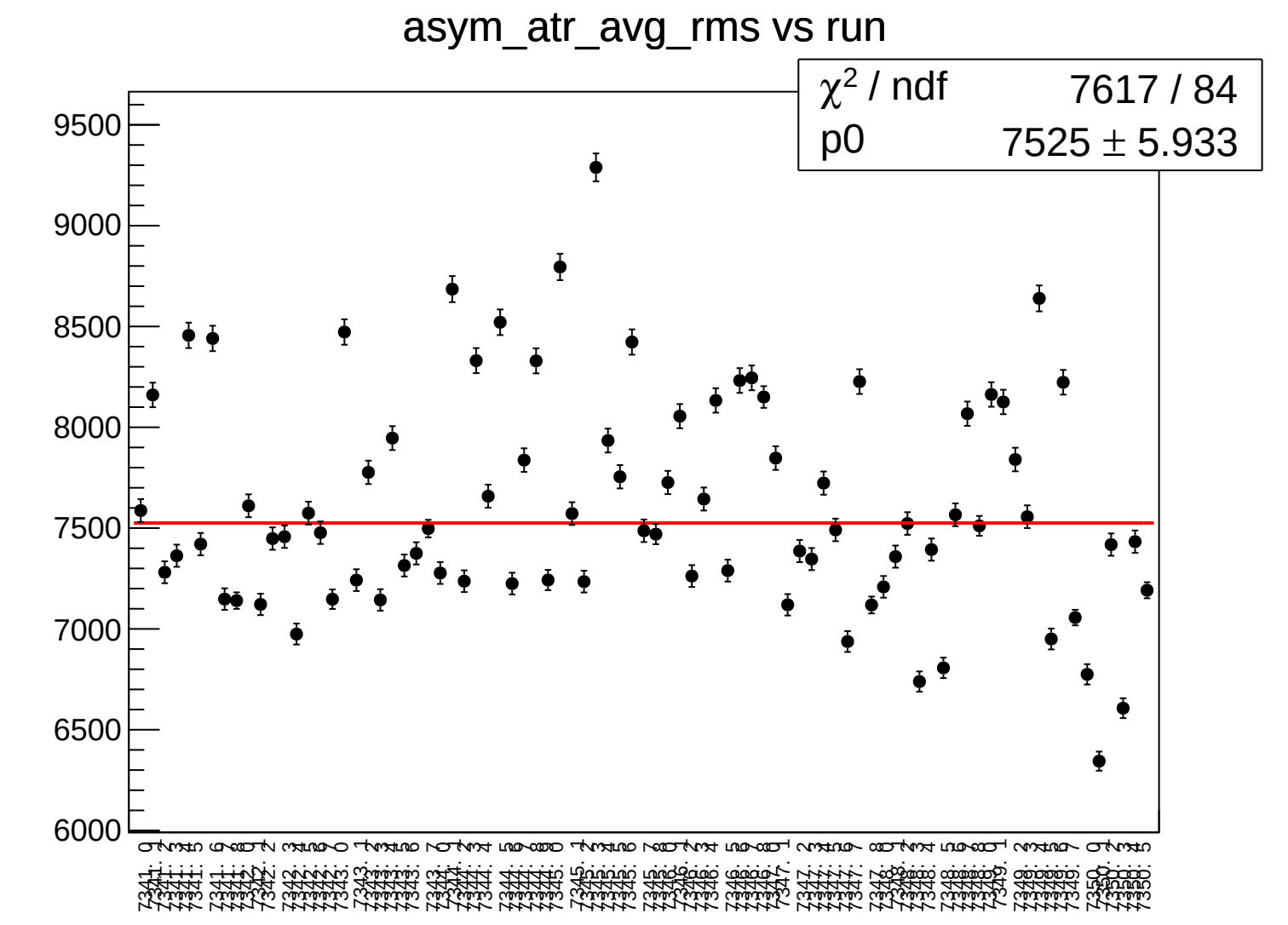

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.07 / 84
p0 −3696 ± 8185
200
100
0
−100
−200
pull
Entries 85
Mean −115.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

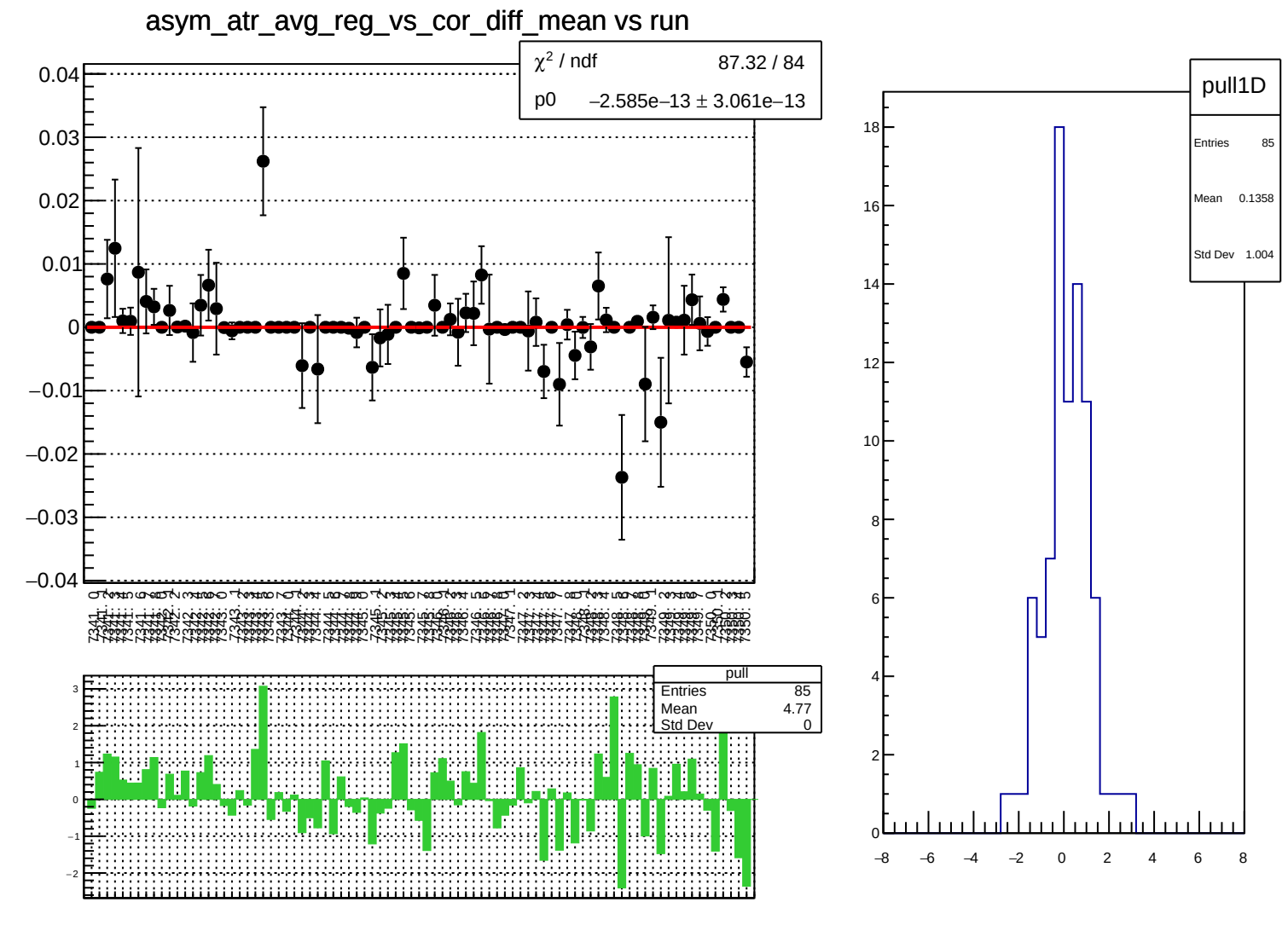

pull1D
Entries 85
Mean 0.02132
Std Dev 0.9269
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

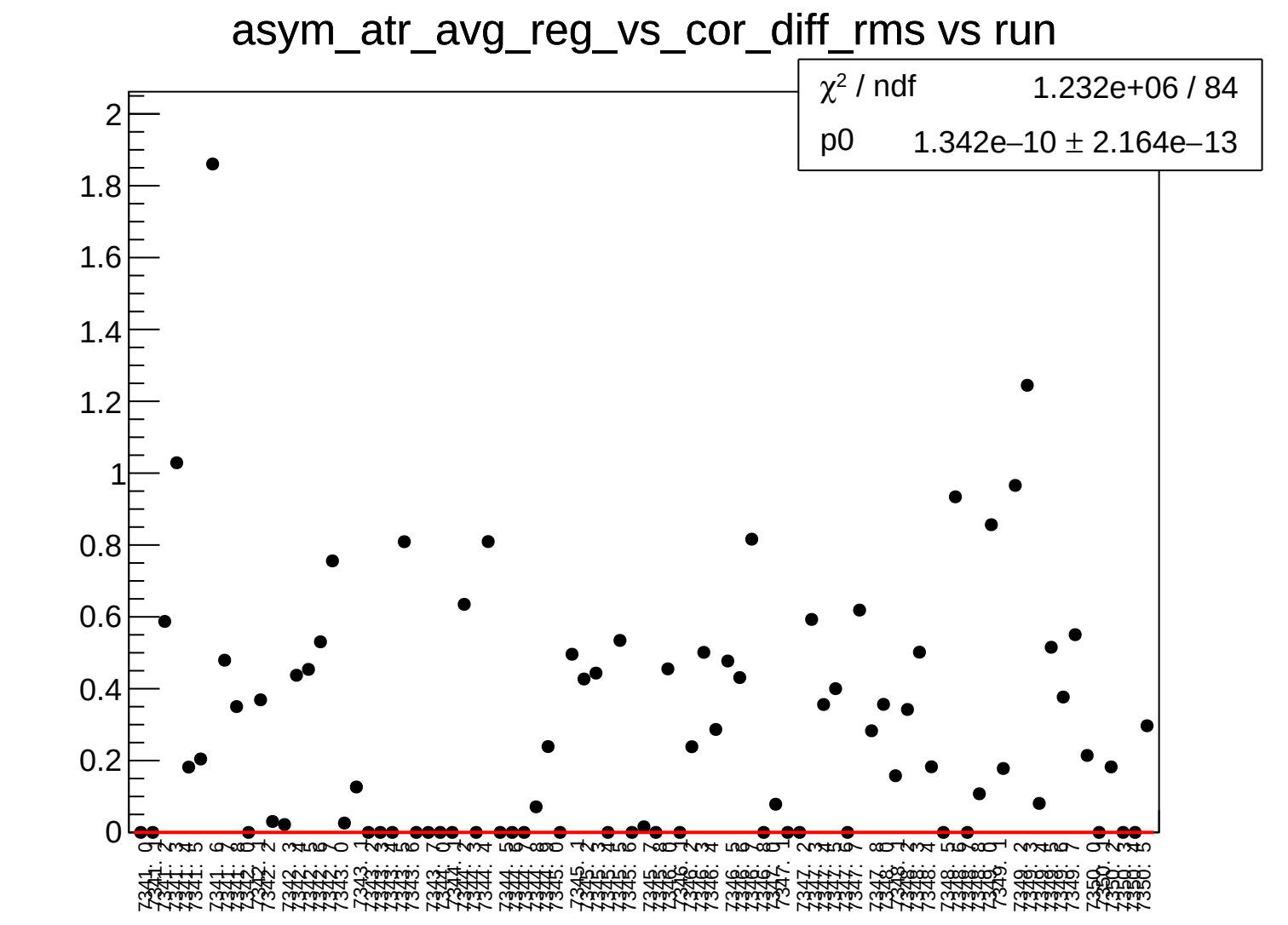

asym_atr_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 7601 / 84
p0 7341 ± 5.788
9000
8500
8000
7500
7000
6500
6000

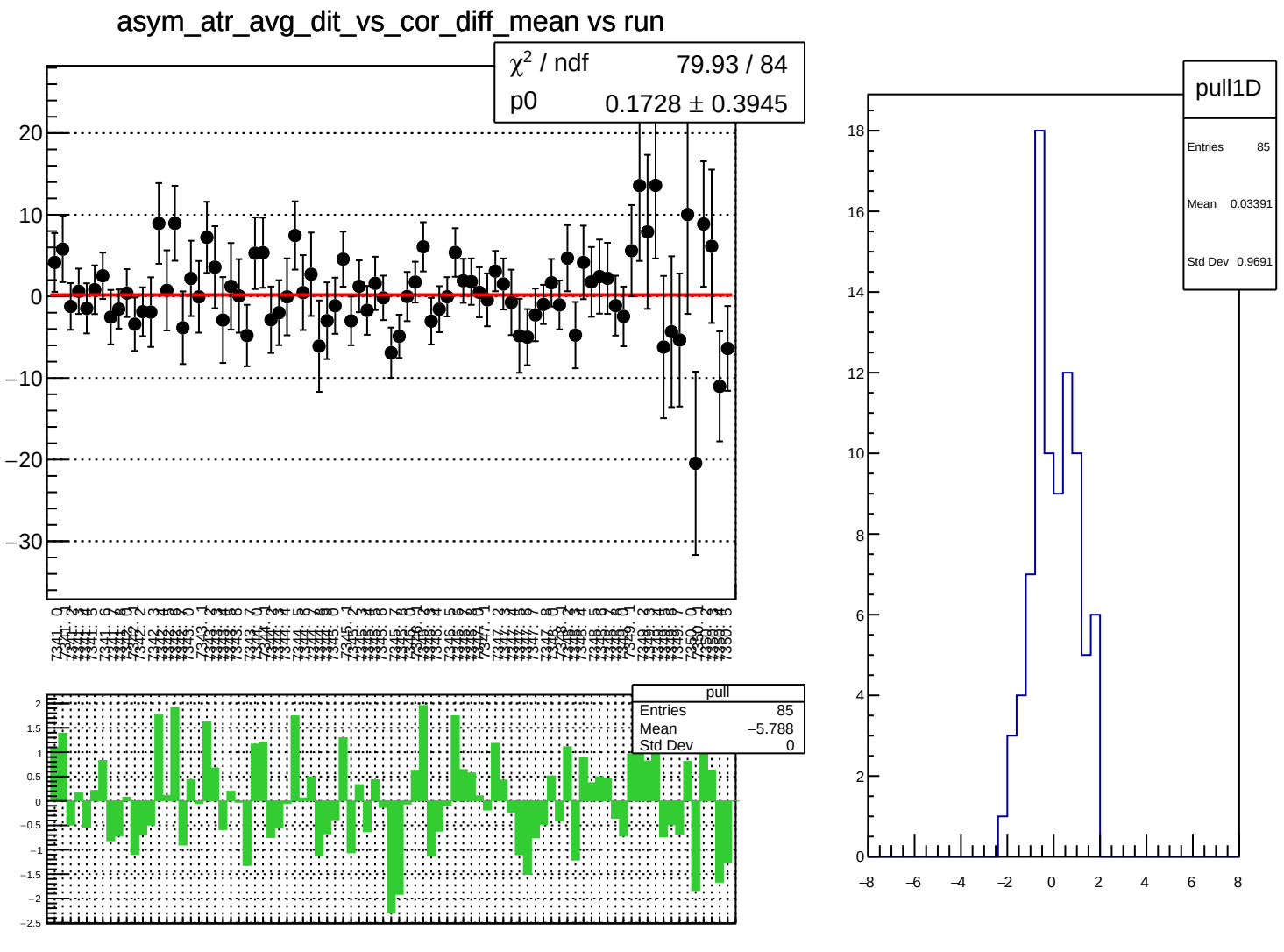

asym_atr_avg_mean vs run
×10^3
χ² / ndf 79.38 / 84
p0 9834 ± 8390
200
100
0
−100
−200
pull
Entries 85
Mean −114.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

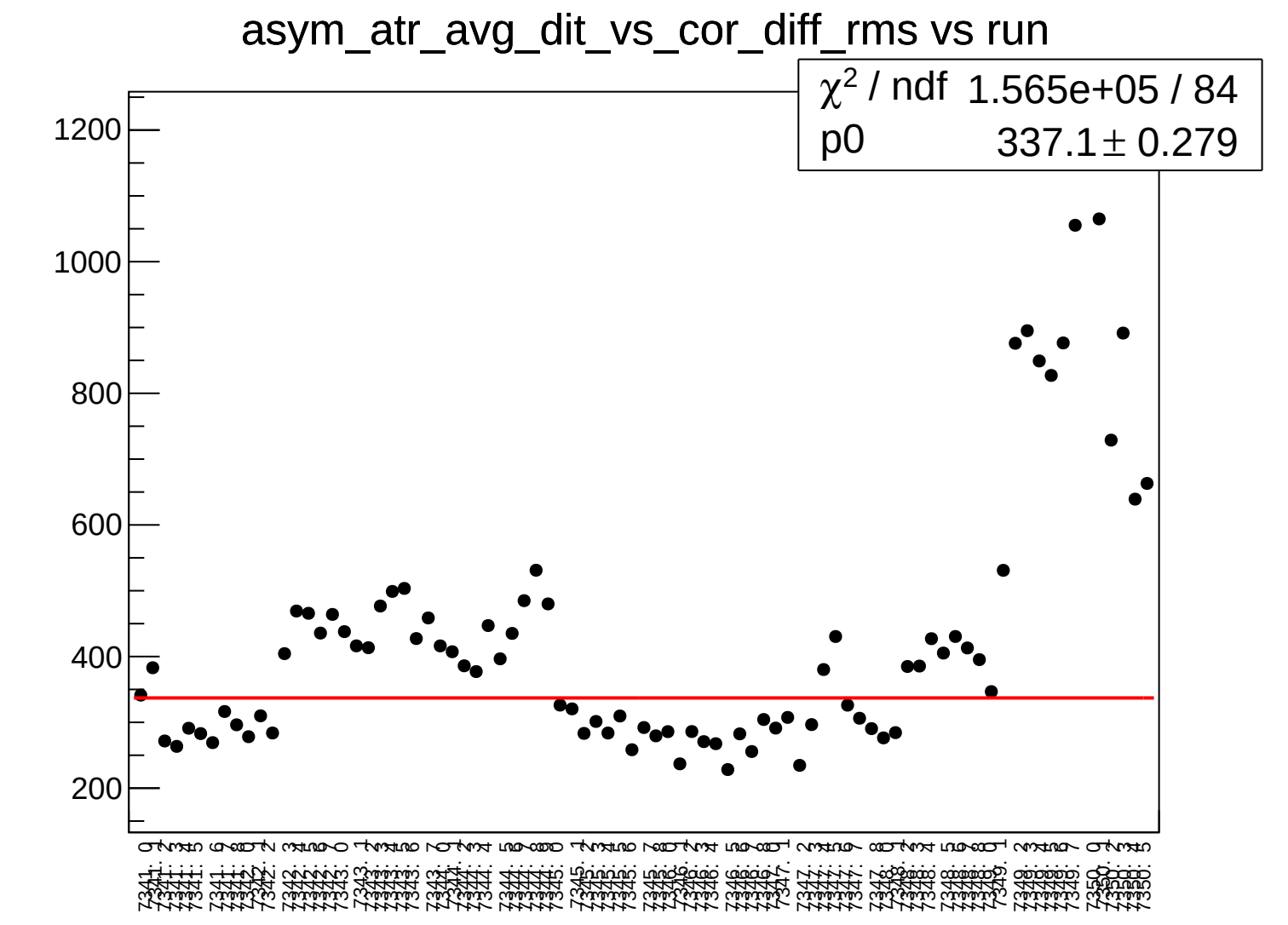

pull1D
Entries 85
Mean −0.02066
Std Dev 0.9662
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

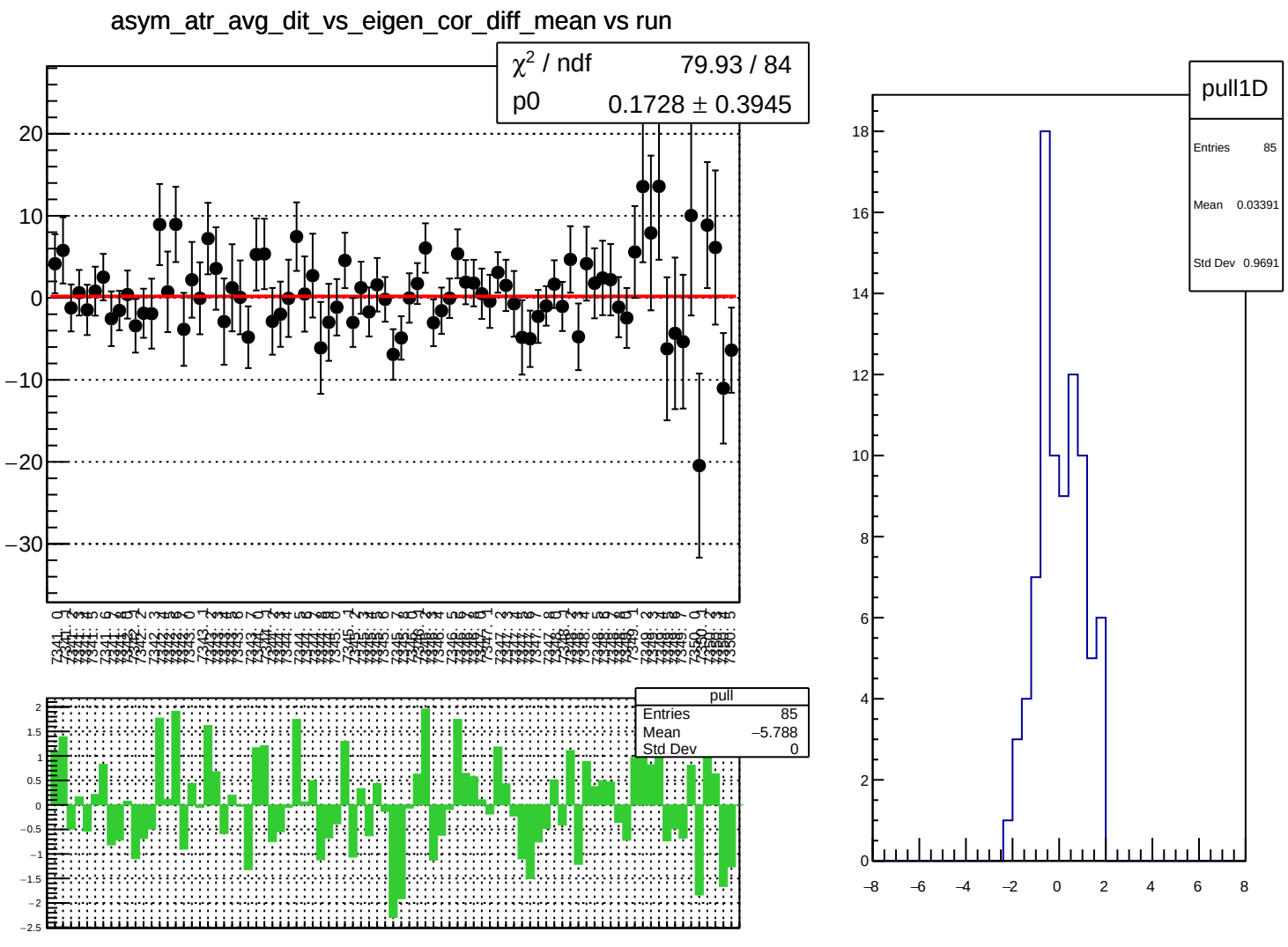

asym_atr_avg_rms vs run
χ^2 / ndf 7617 / 84
p0 7525 ± 5.933
9500
9000
8500
8000
7500
7000
6500
6000

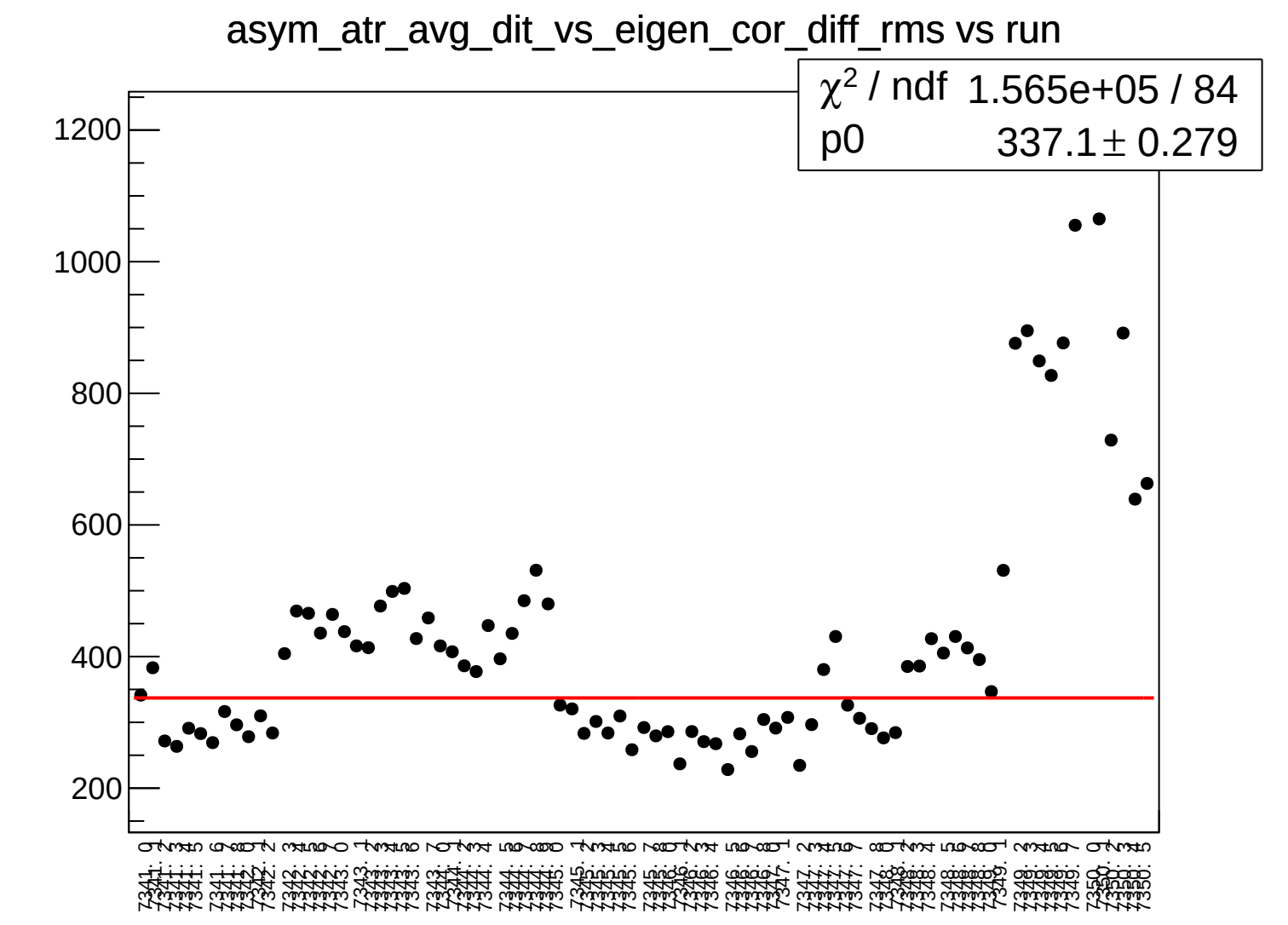

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.32 / 84
p0 −2.585e−13 ± 3.061e−13
pull
Entries 85
Mean 4.77
Std Dev 0
pull1D
Entries 85
Mean 0.1358
Std Dev 1.004

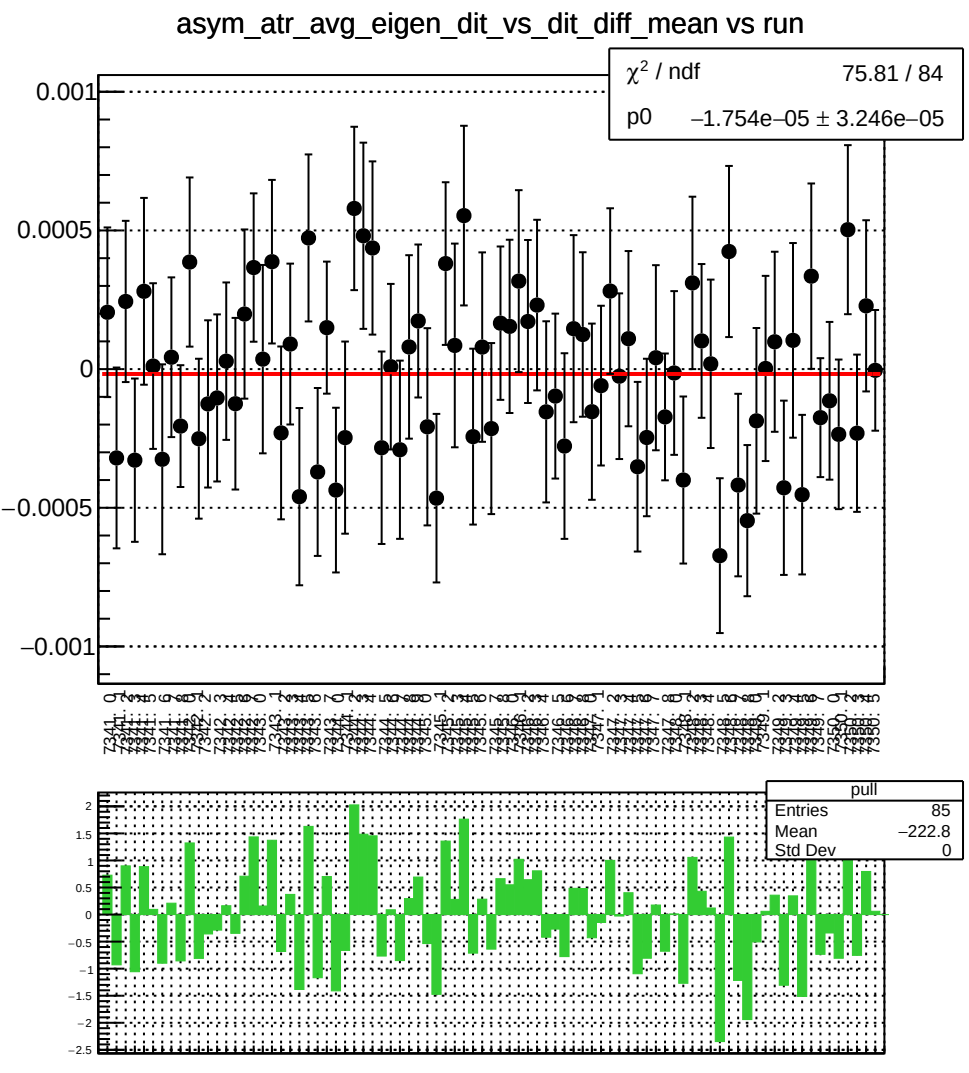

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.232e+06 / 84
p0 1.342e−10 ± 2.164e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

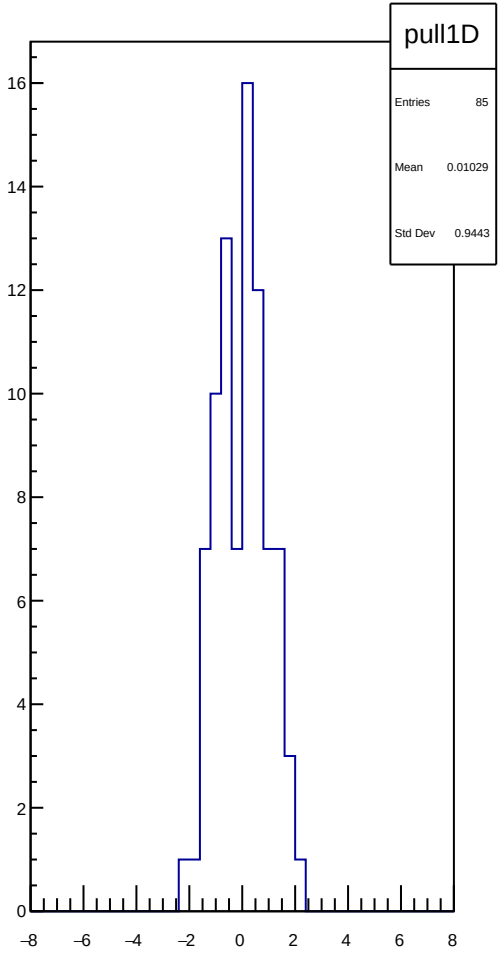

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.93 / 84
p0 0.1728 ± 0.3945
pull
Entries 85
Mean −5.788
Std Dev 0
pull1D
Entries 85
Mean 0.03391
Std Dev 0.9691

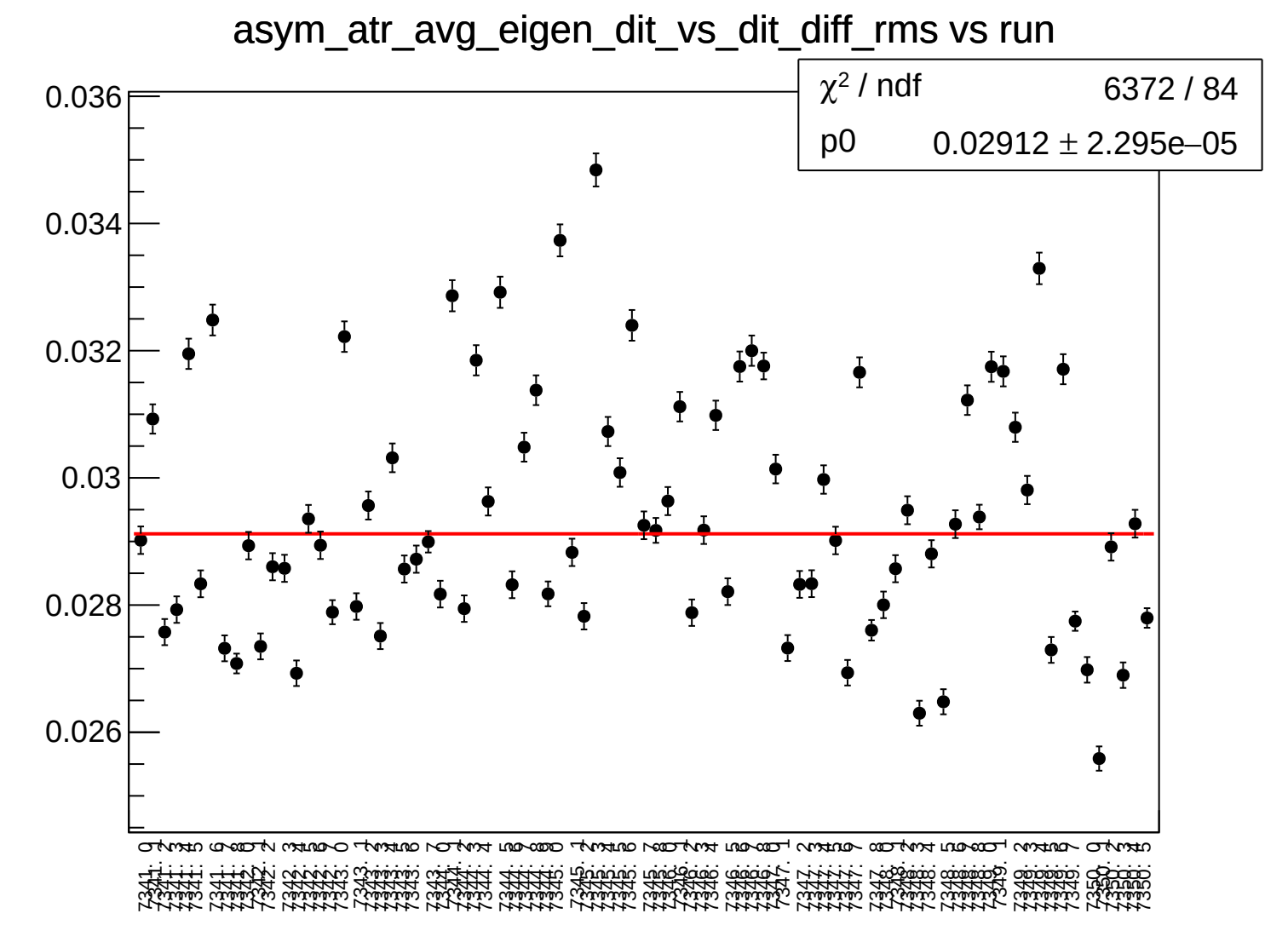

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.565e+05 / 84
p0 337.1 ± 0.279
1200
1000
800
600
400
200

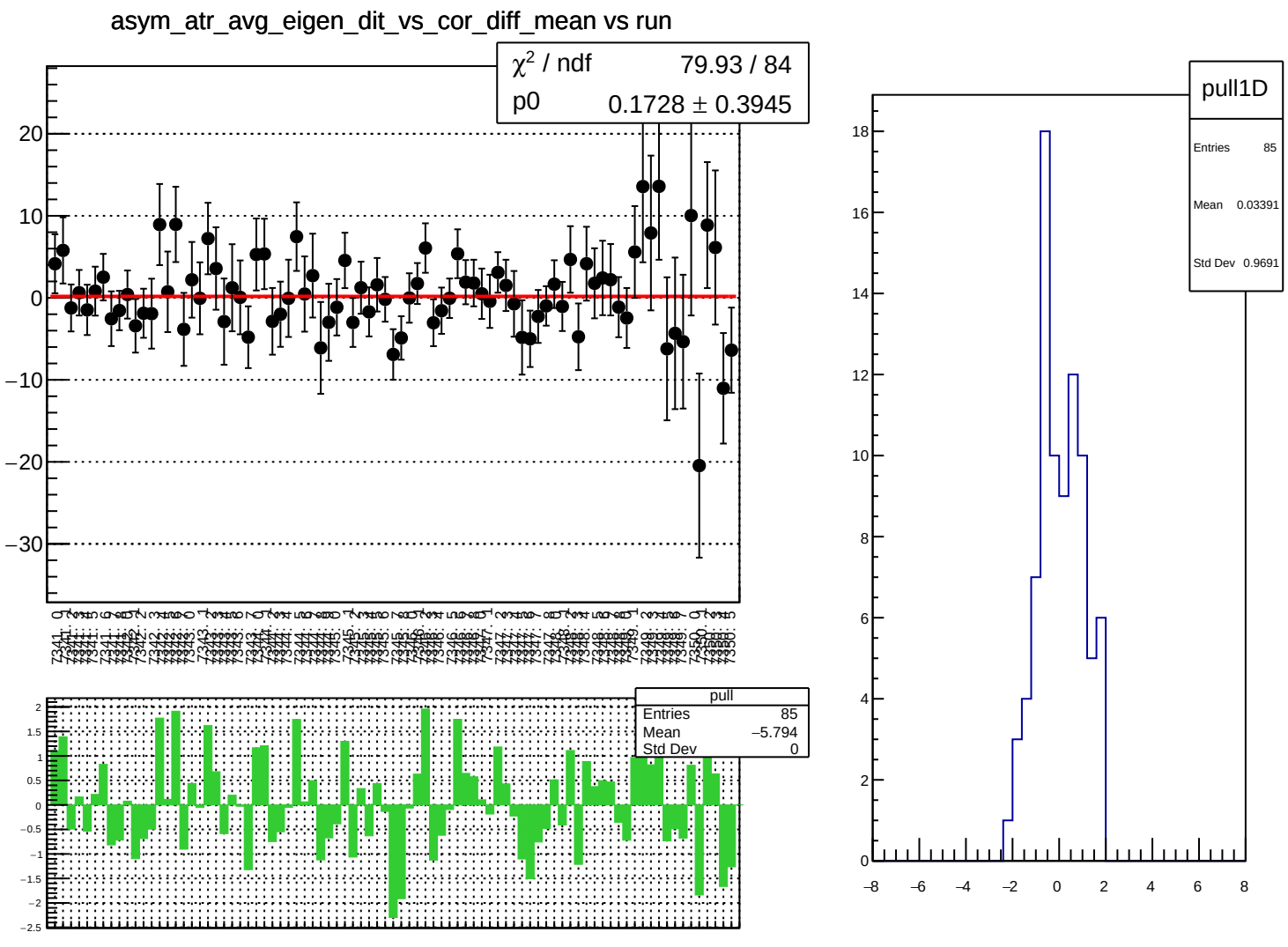

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.93 / 84
p0 0.1728 ± 0.3945
pull
Entries 85
Mean −5.788
Std Dev 0
pull1D
Entries 85
Mean 0.03391
Std Dev 0.9691

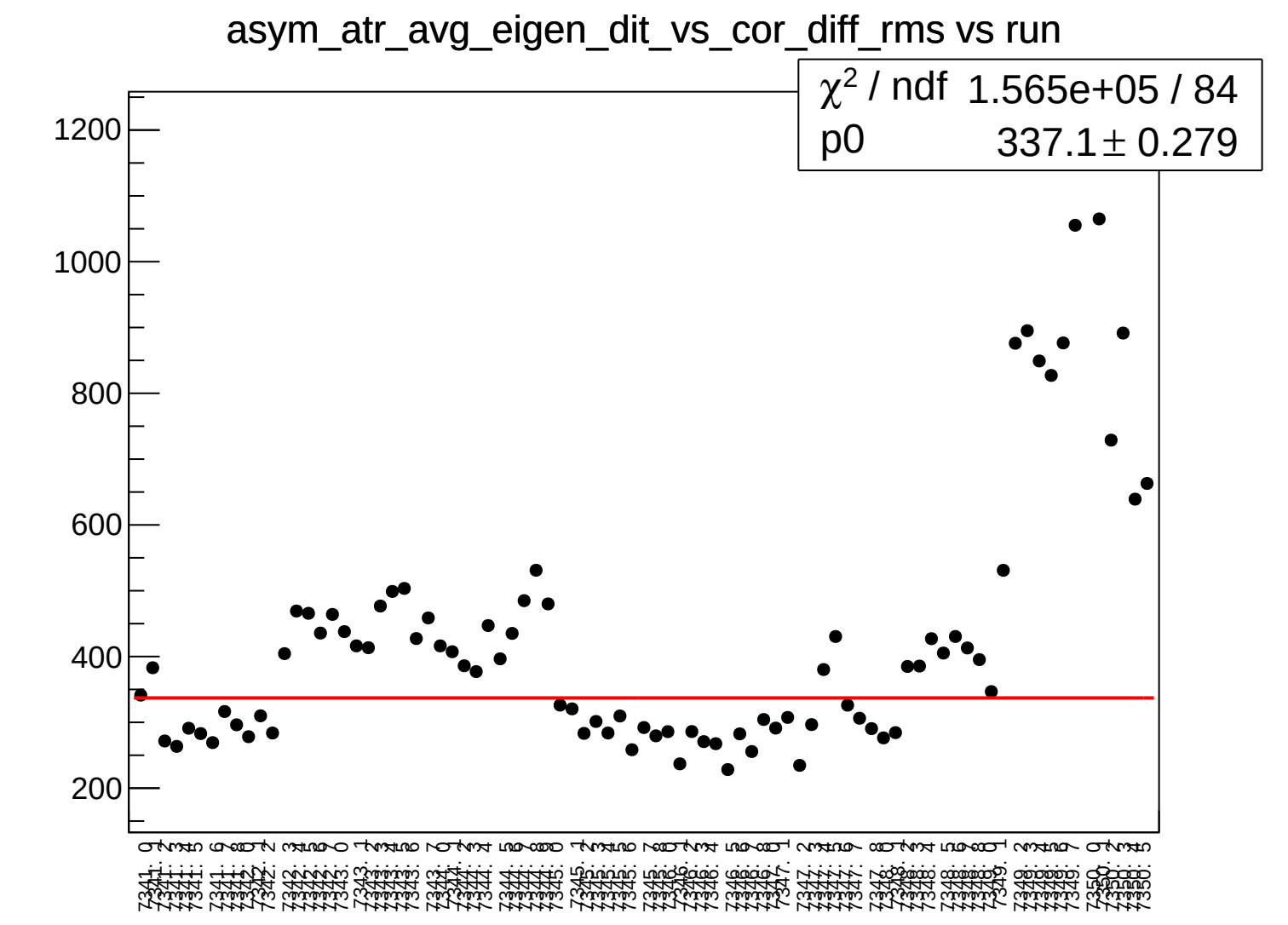

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.565e+05 / 84
p0 337.1 ± 0.279
1200
1000
800
600
400
200

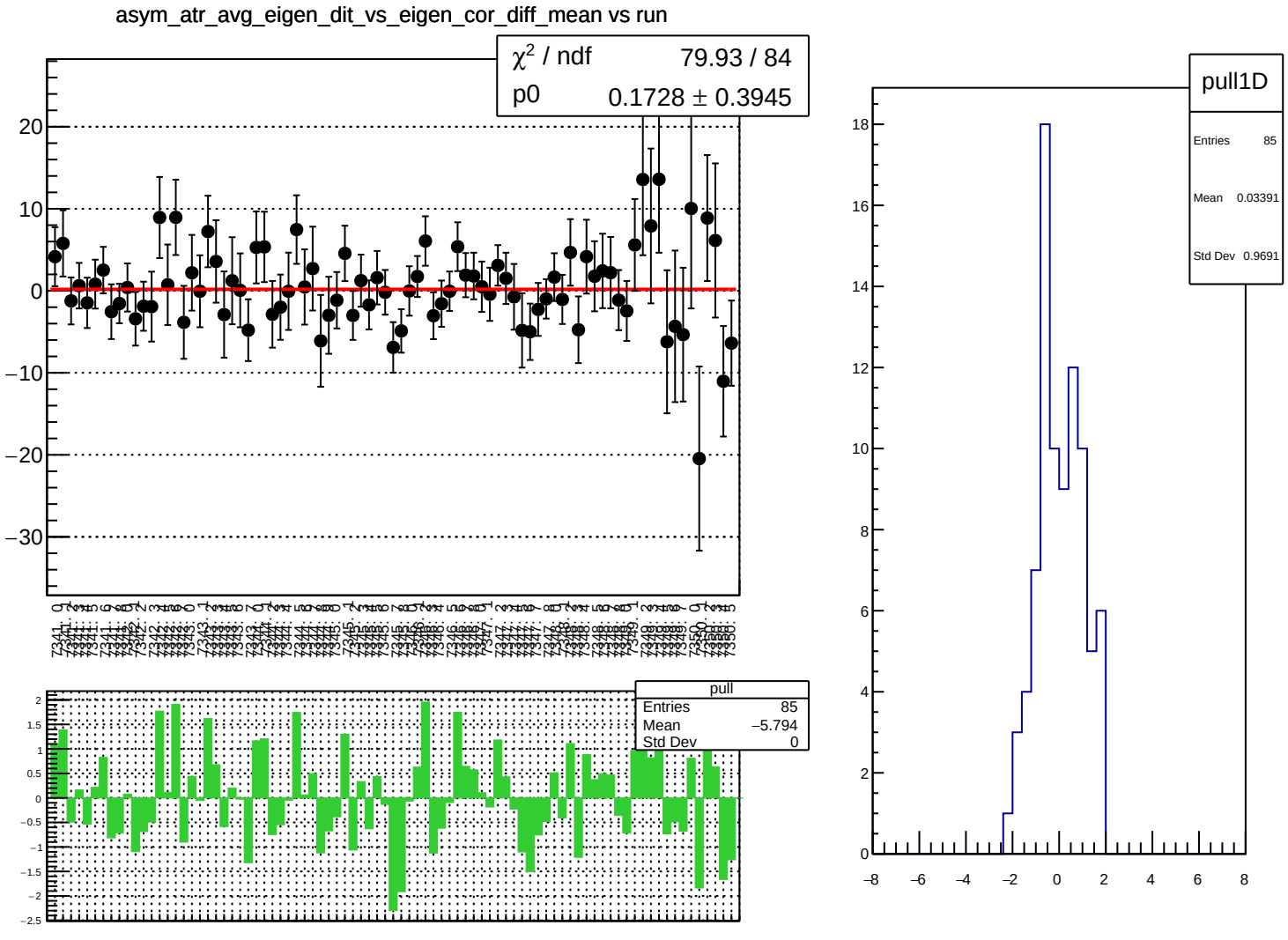

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.81 / 84
p0 −1.754e−05 ± 3.246e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean −222.8
Std Dev 0

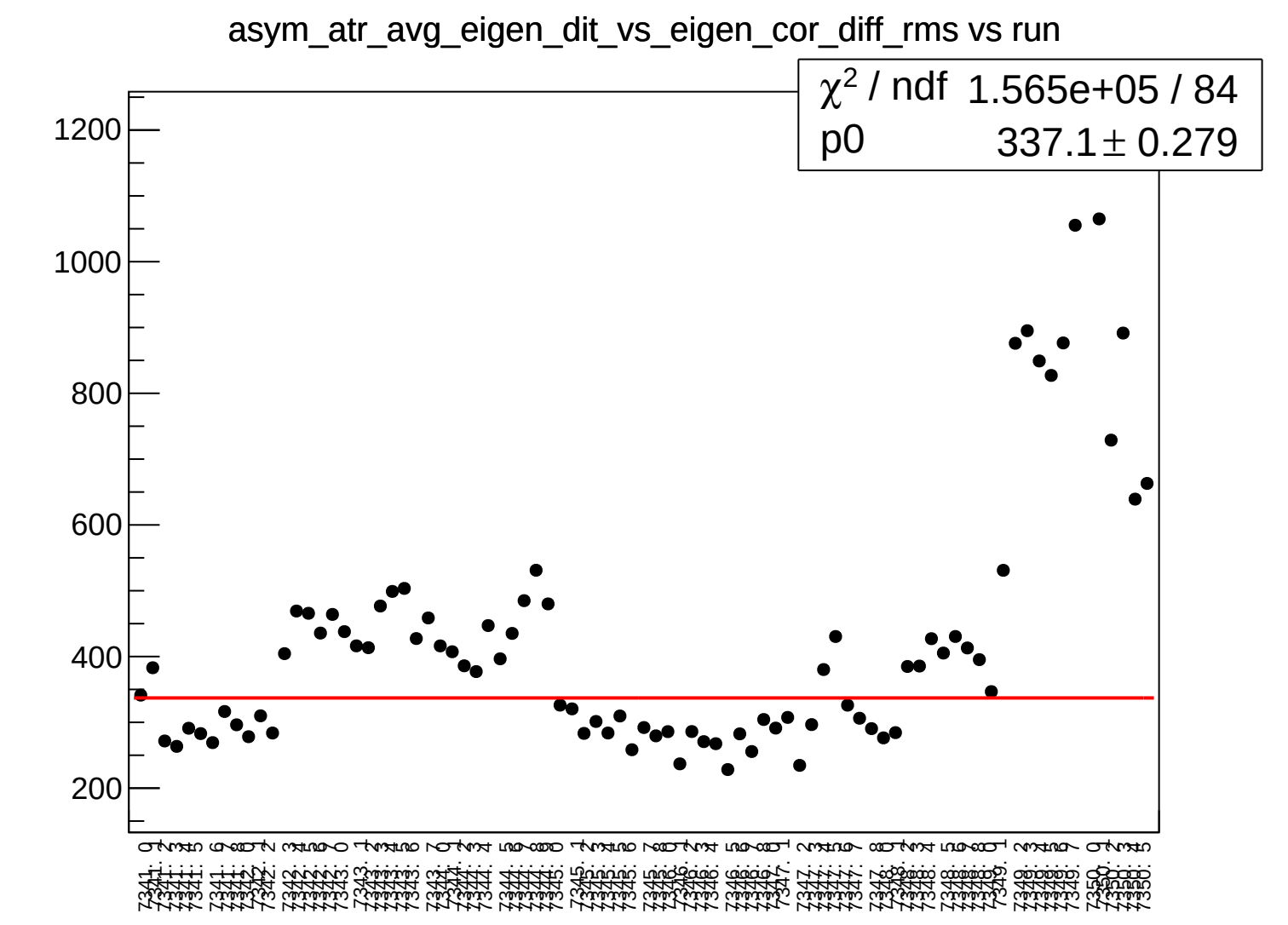

pull1D
Entries 85
Mean 0.01029
Std Dev 0.9443

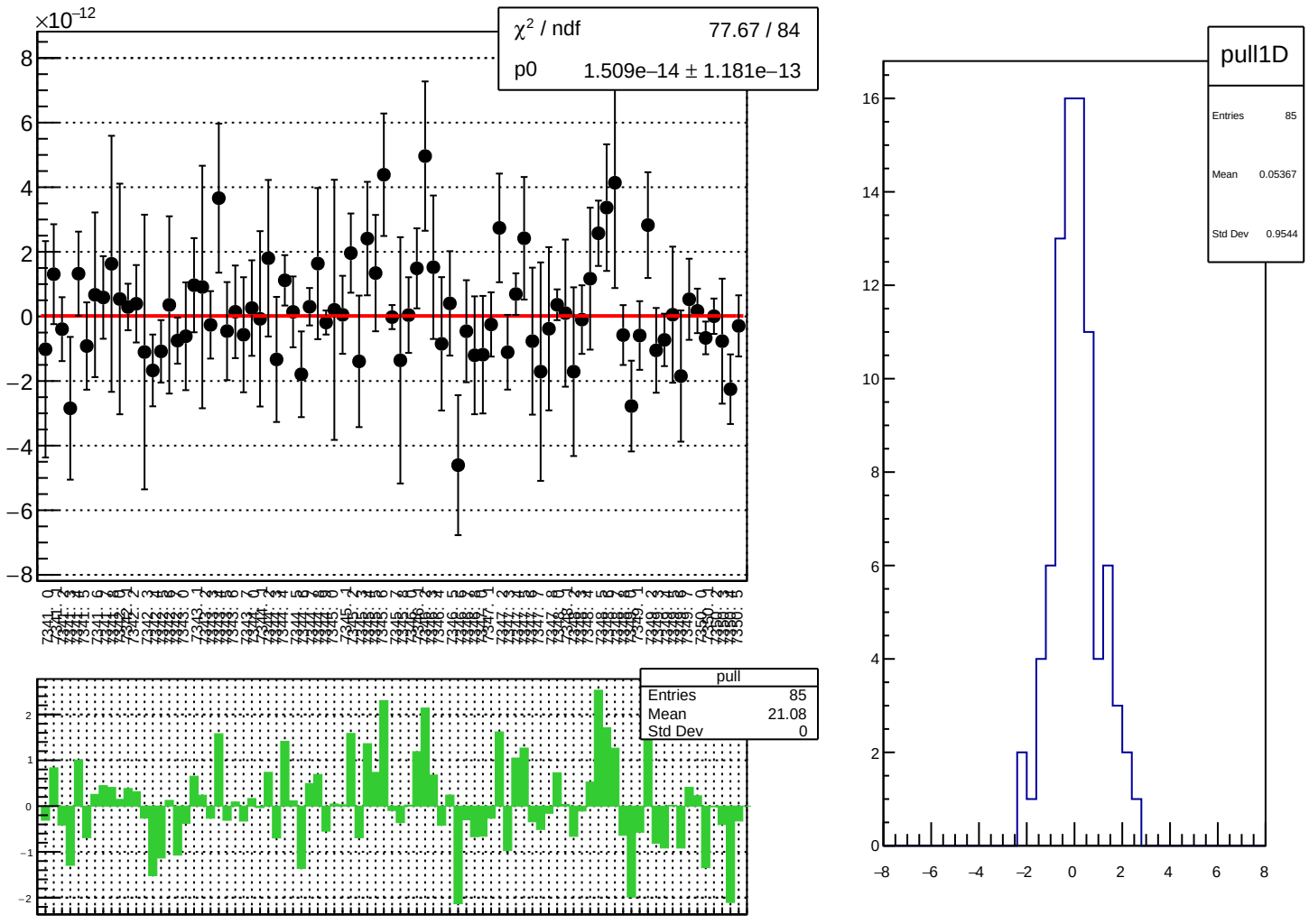

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6372 / 84
p0 0.02912 ± 2.295e−05
0.036
0.034
0.032
0.03
0.028
0.026

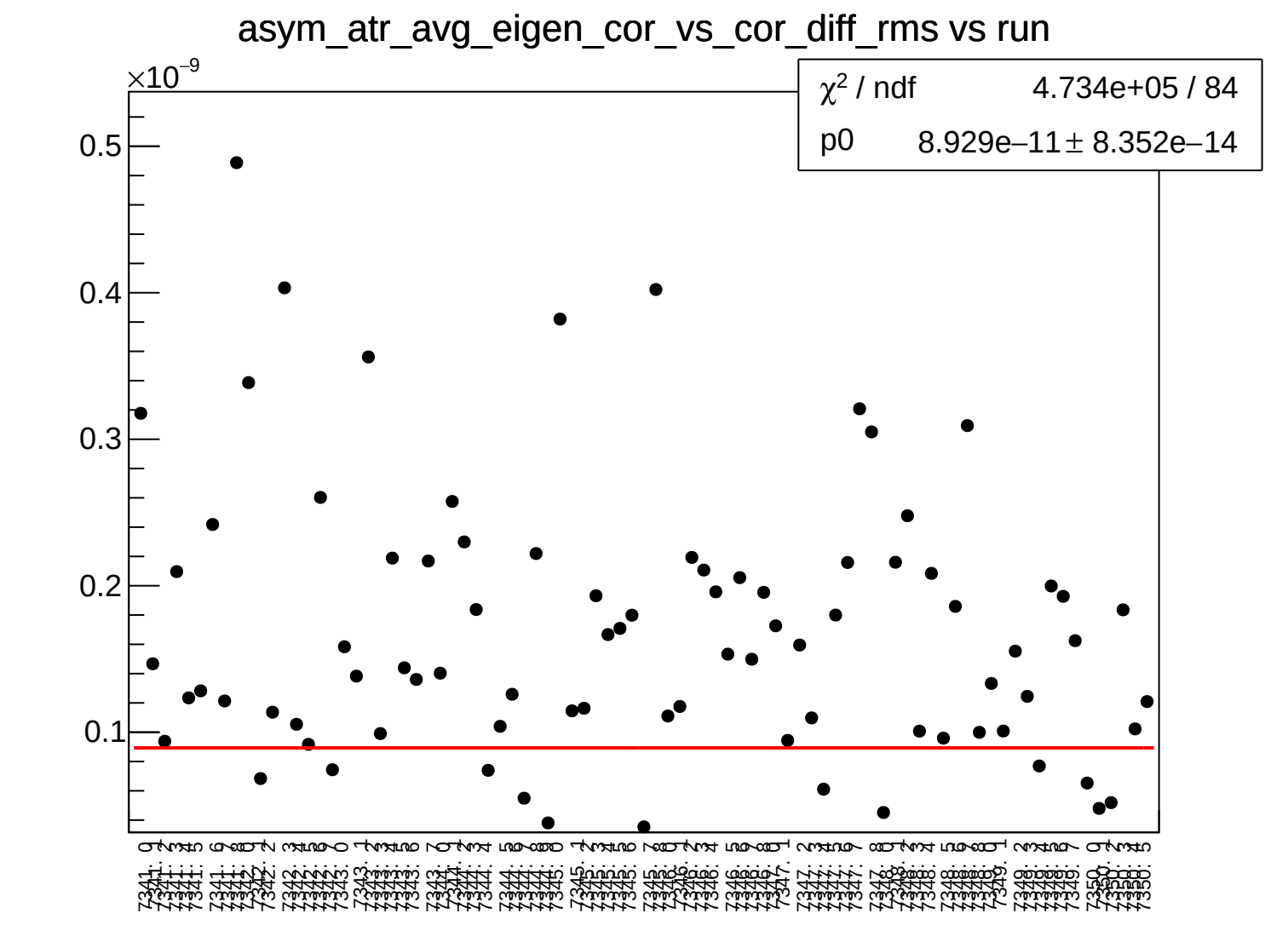

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.93 / 84
p0 0.1728 ± 0.3945
pull
Entries 85
Mean −5.794
Std Dev 0
pull1D
Entries 85
Mean 0.03391
Std Dev 0.9691

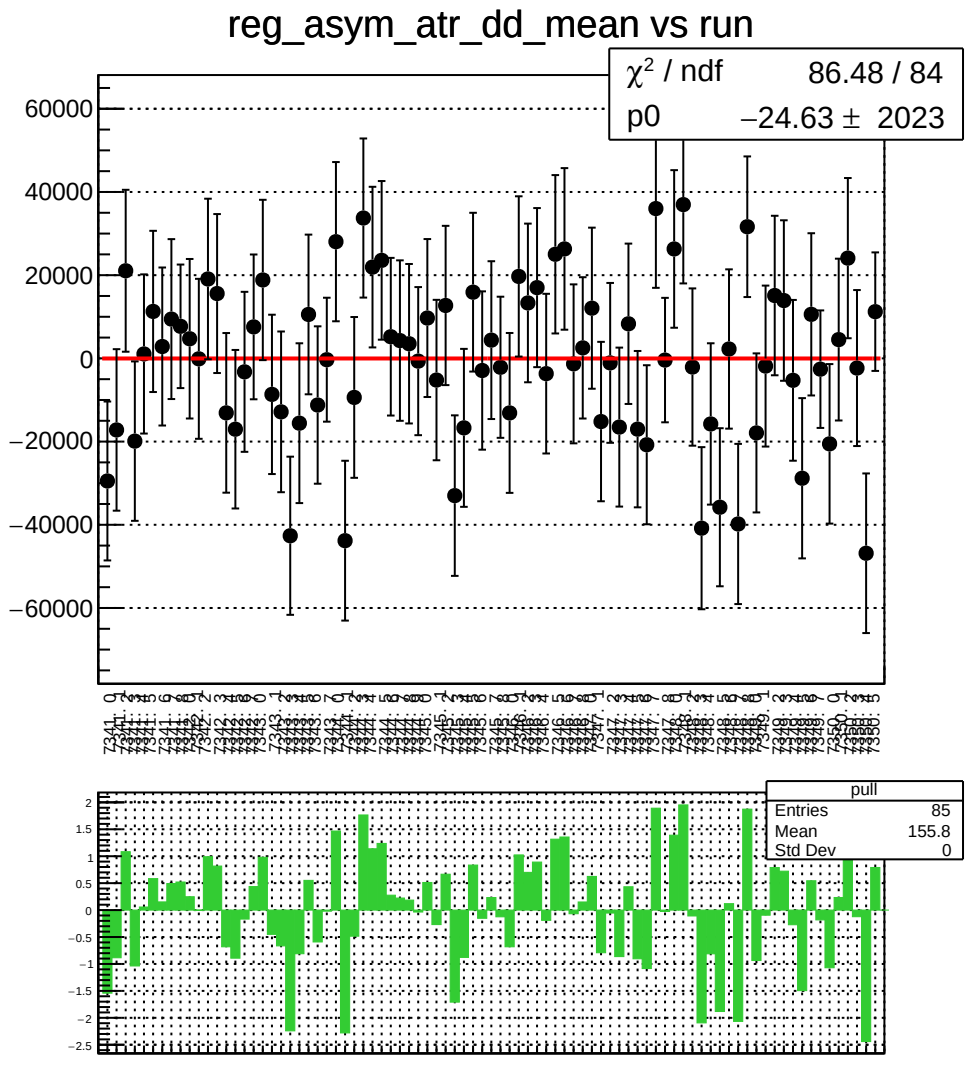

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.565e+05 / 84
p0 337.1 ± 0.279
1200
1000
800
600
400
200

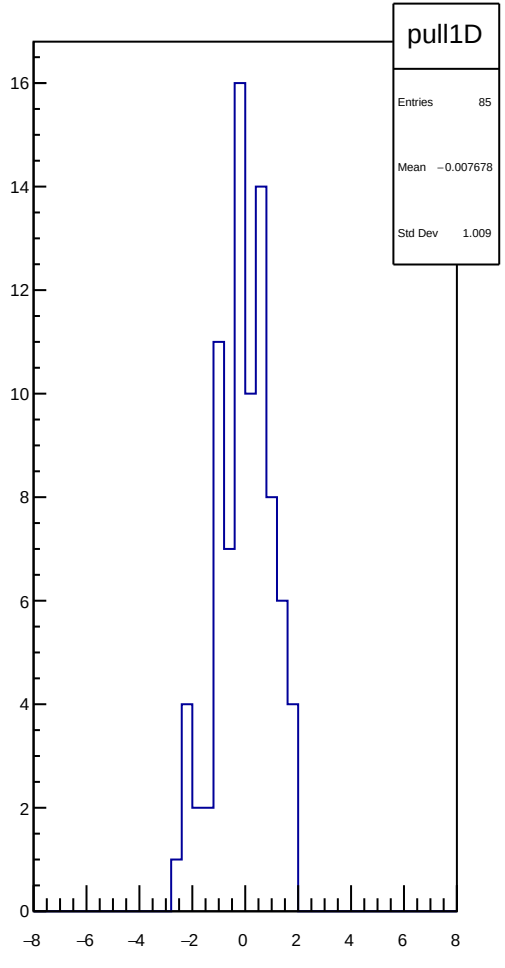

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.93 / 84
p0 0.1728 ± 0.3945
pull
Entries 85
Mean −5.794
Std Dev 0
pull1D
Entries 85
Mean 0.03391
Std Dev 0.9691

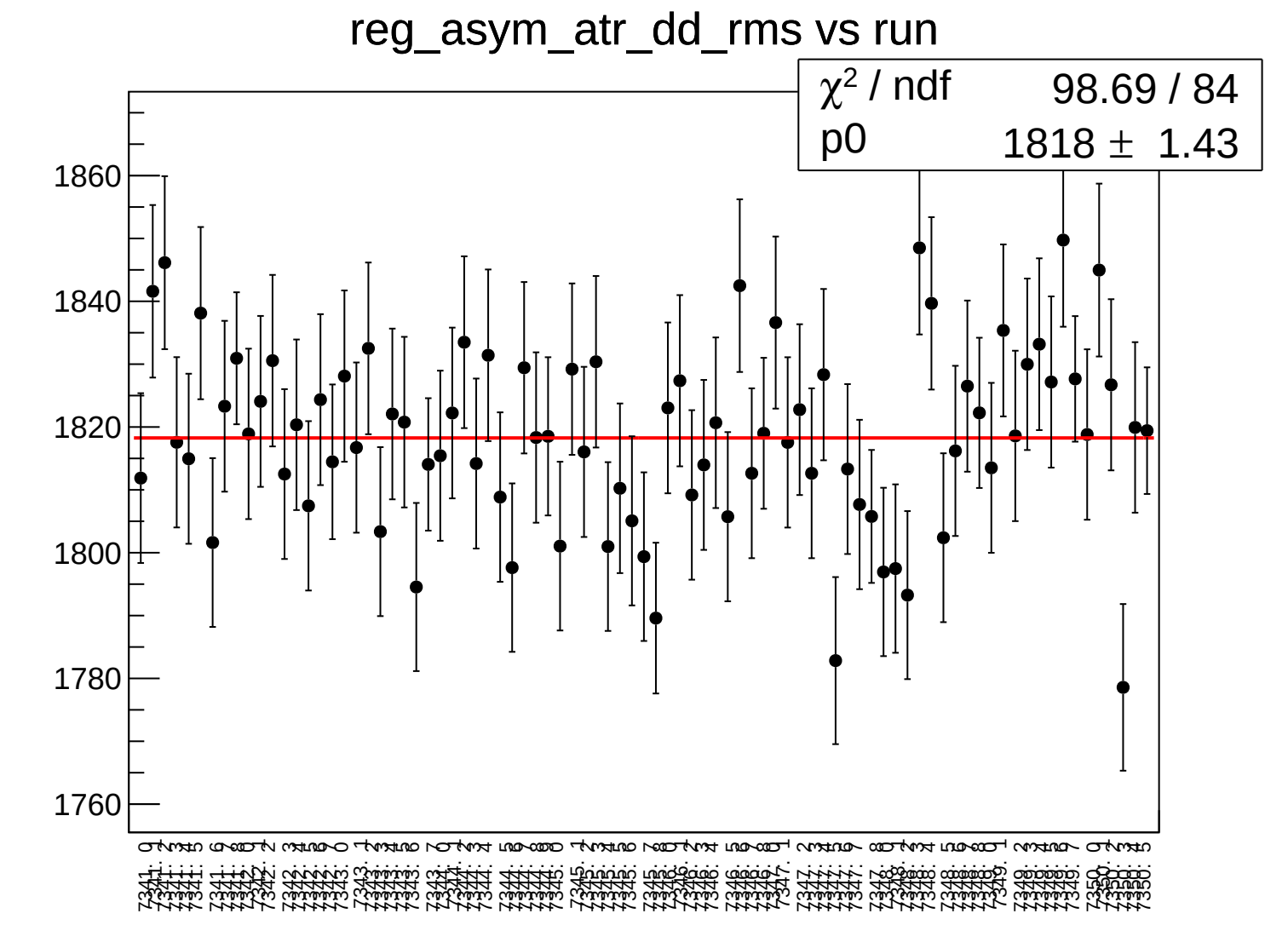

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.565e+05 / 84
p0 337.1 ± 0.279
1200
1000
800
600
400
200

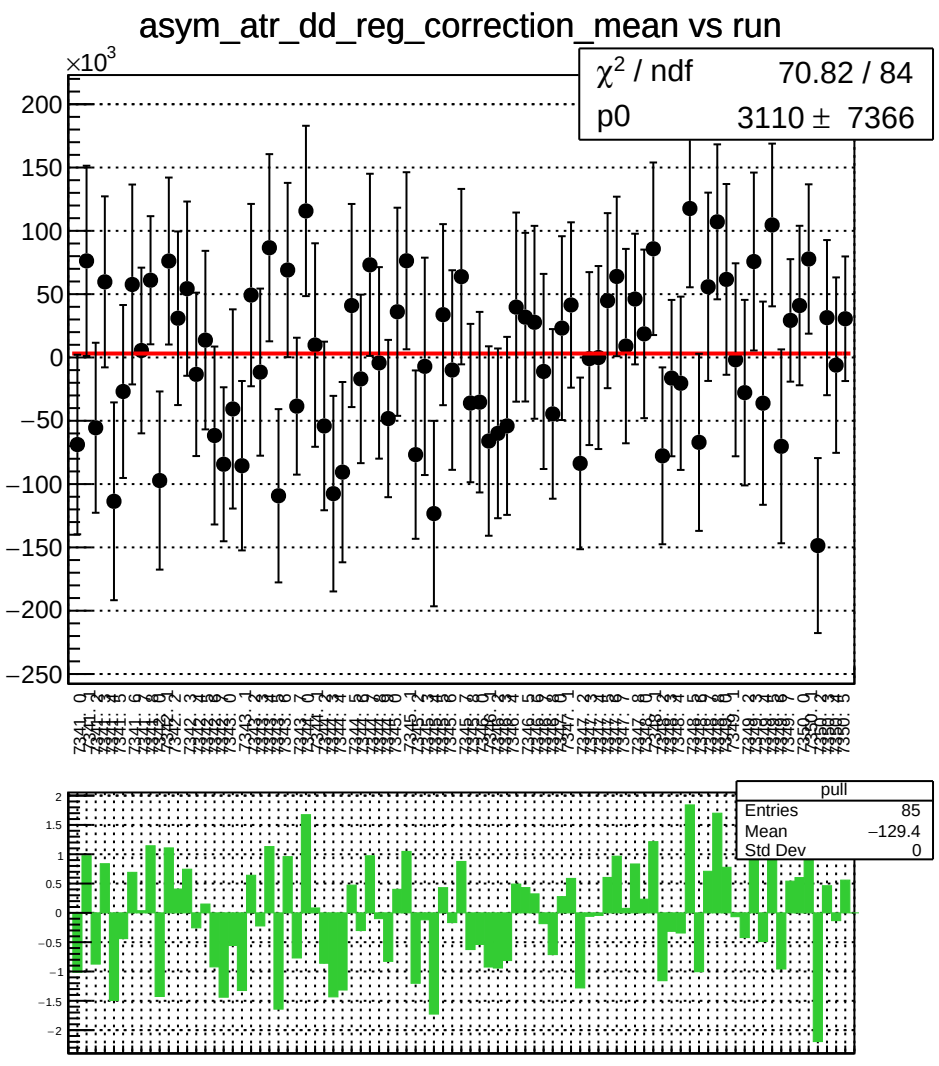

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.67 / 84
p0 1.509e−14 ± 1.181e−13
pull
Entries 85
Mean 21.08
Std Dev 0
pull1D
Entries 85
Mean 0.05367
Std Dev 0.9544

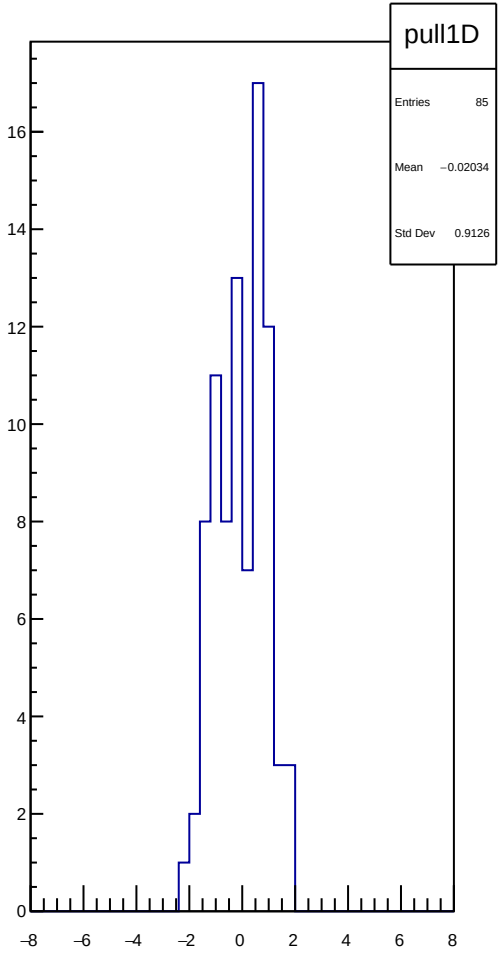

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.734e+05 / 84
p0 8.929e−11 ± 8.352e−14
0.5
0.4
0.3
0.2
0.1

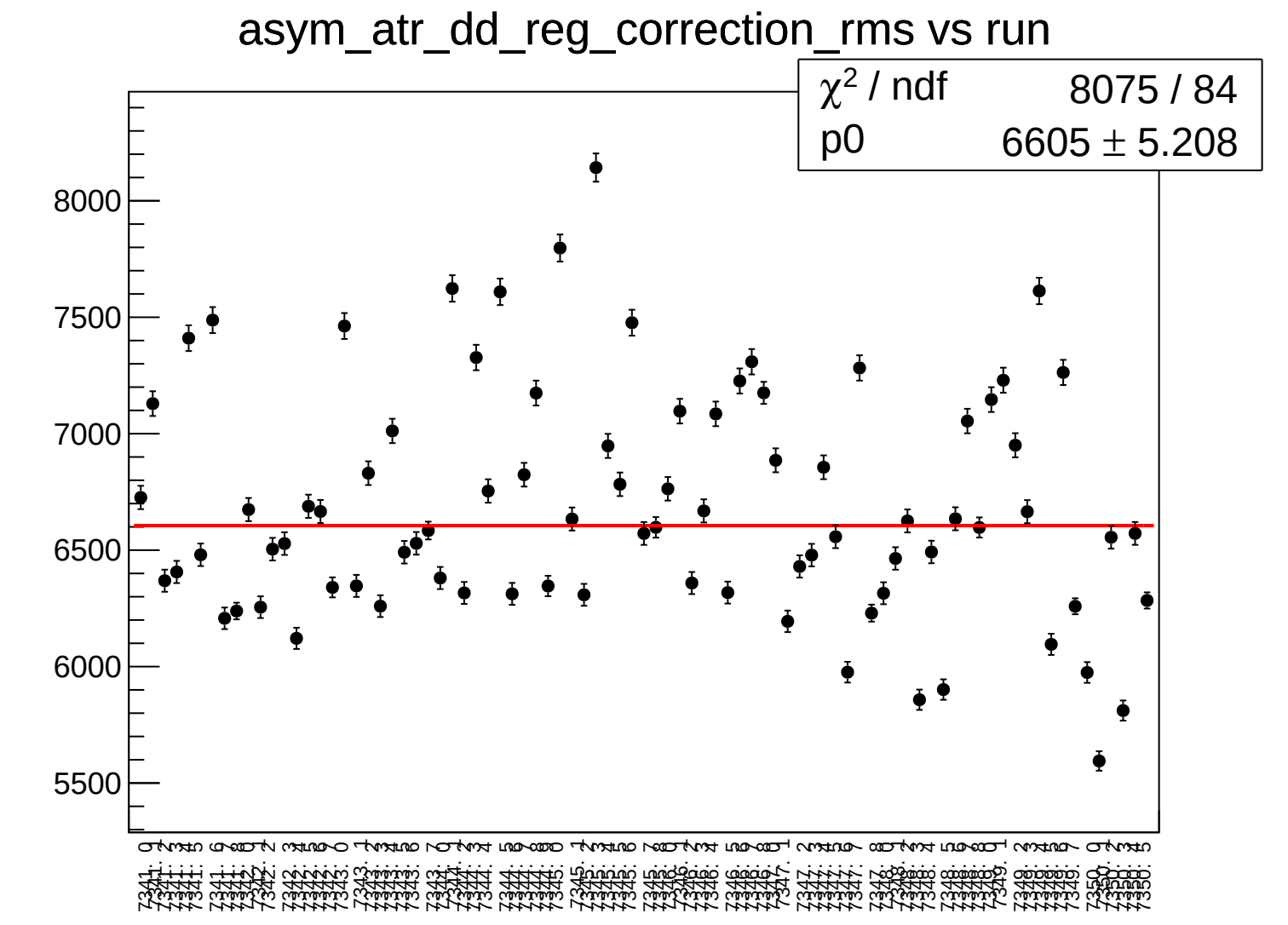

reg_asym_atr_dd_mean vs run
χ² / ndf 86.48 / 84
p0 −24.63 ± 2023
pull
Entries 85
Mean 155.8
Std Dev 0

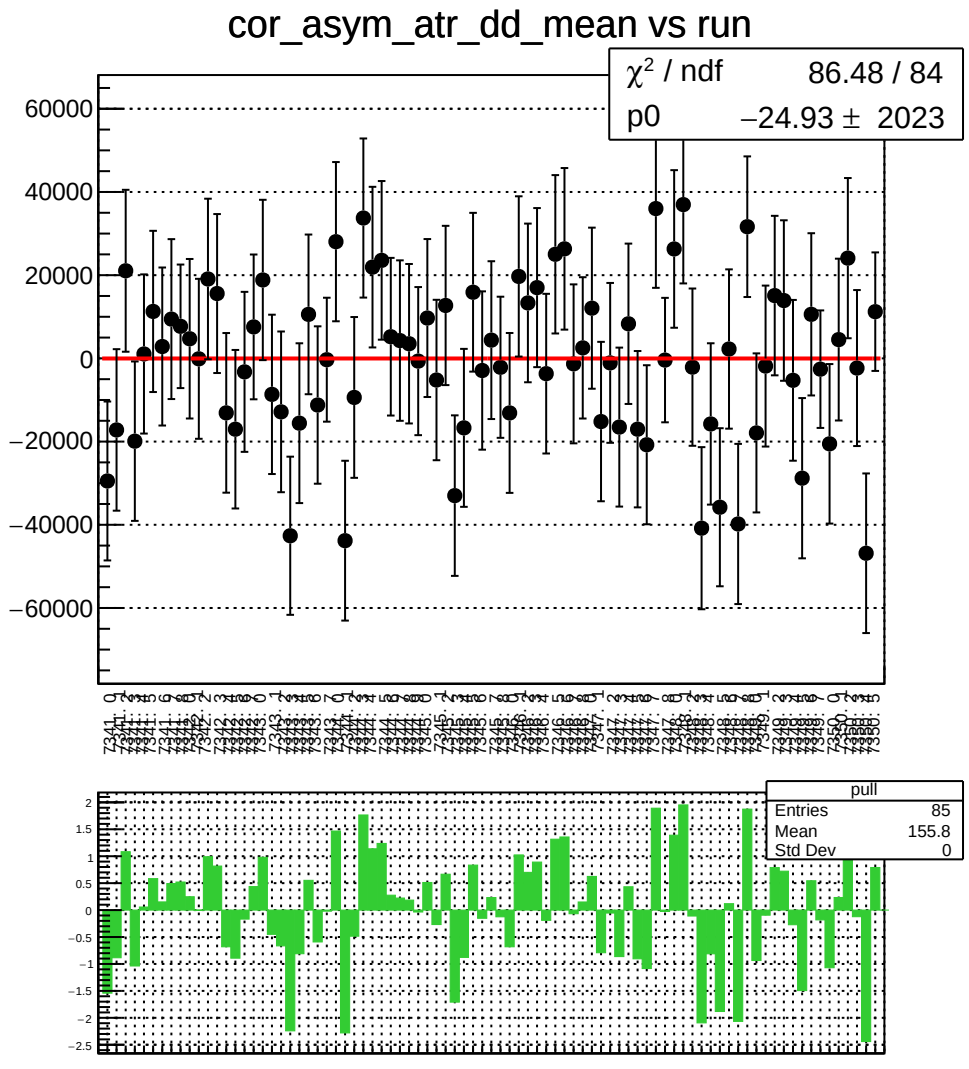

pull1D
Entries 85
Mean −0.007678
Std Dev 1.009

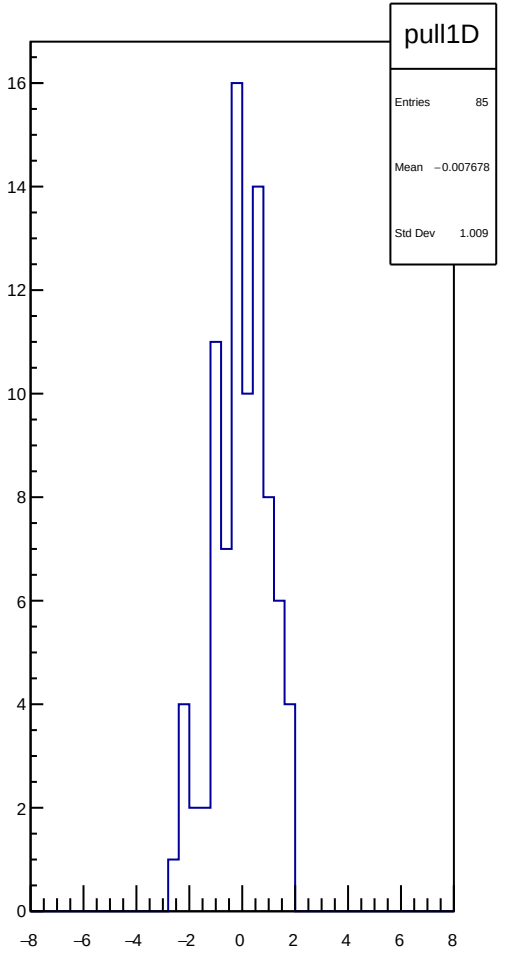

reg_asym_atr_dd_rms vs run
χ^2 / ndf 98.69 / 84
p0 1818 ± 1.43
1860
1840
1820
1800
1780
1760

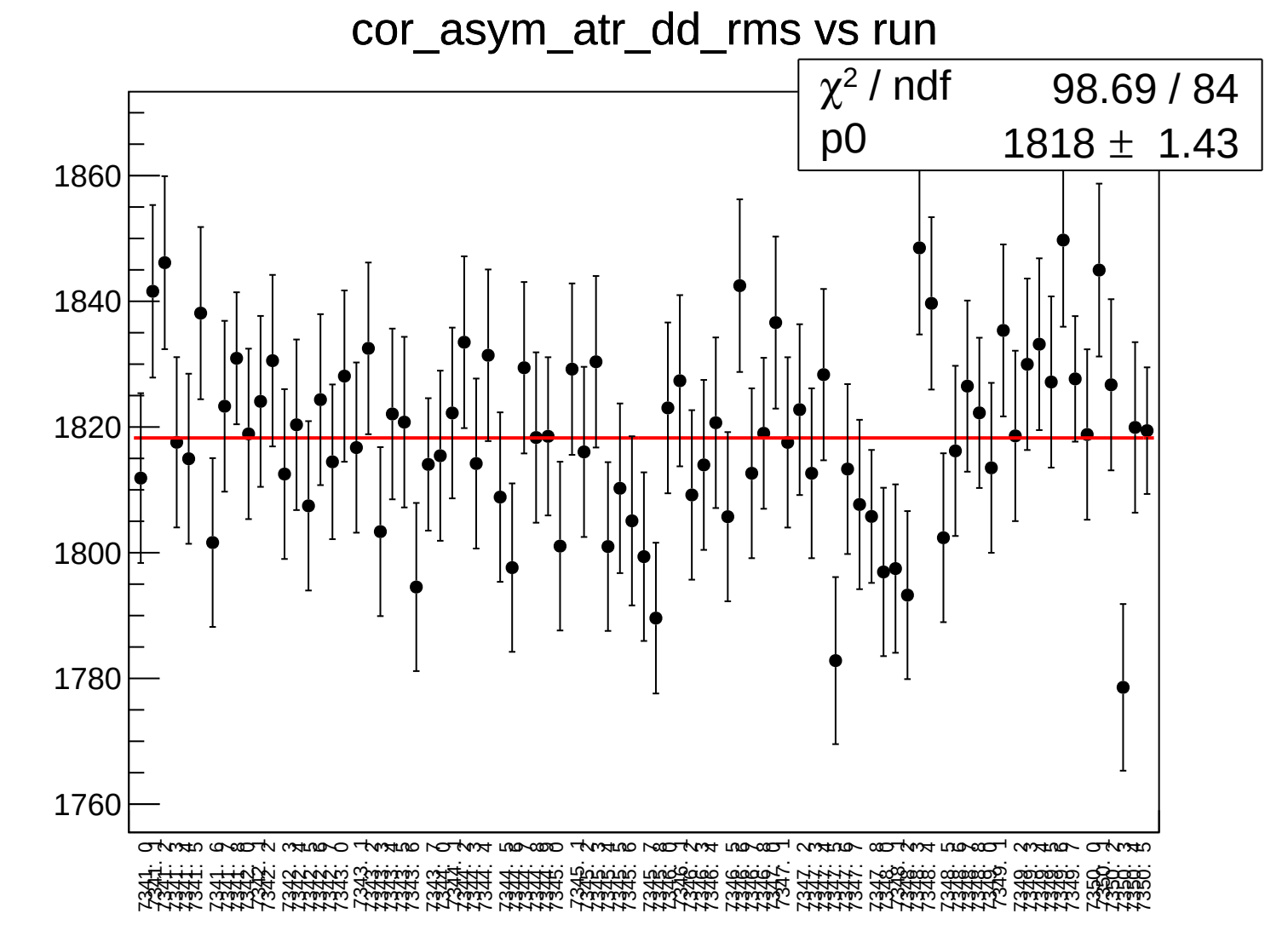

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 70.82 / 84
p0 3110 ± 7366
pull
Entries 85
Mean −129.4
Std Dev 0

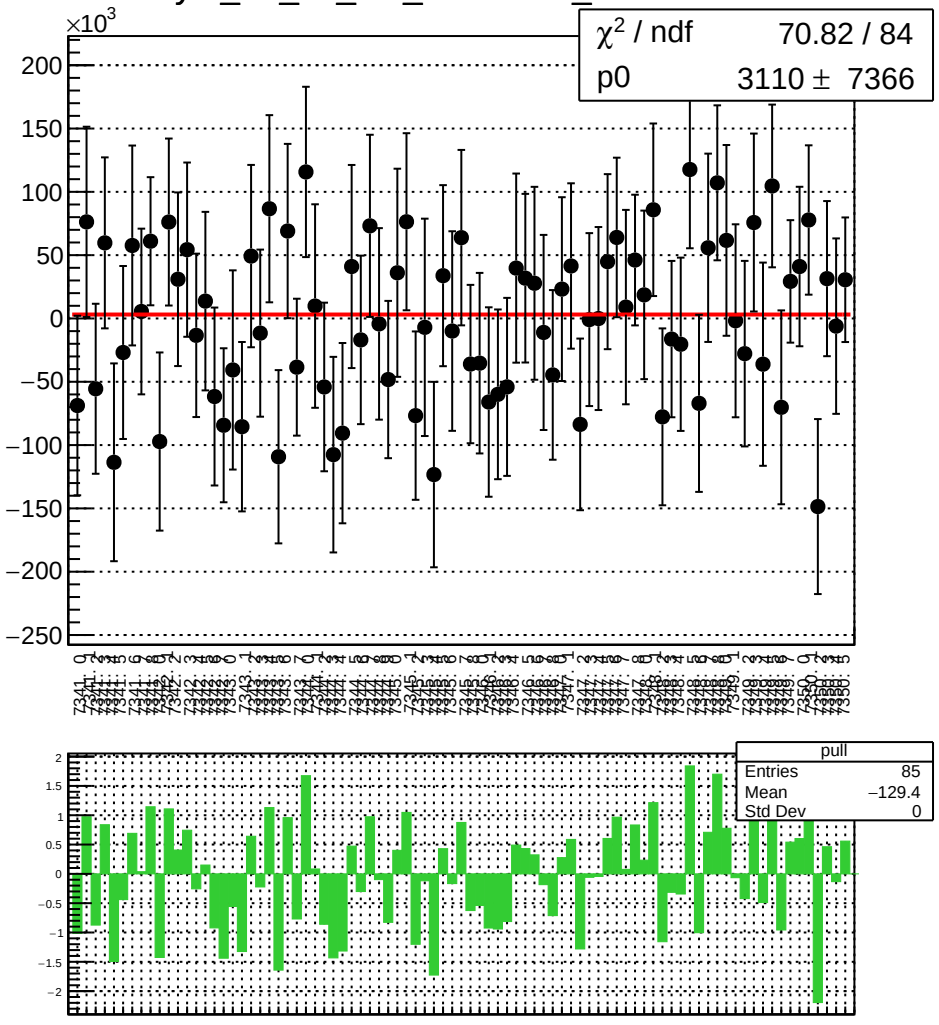

pull1D
Entries 85
Mean −0.02034
Std Dev 0.9126

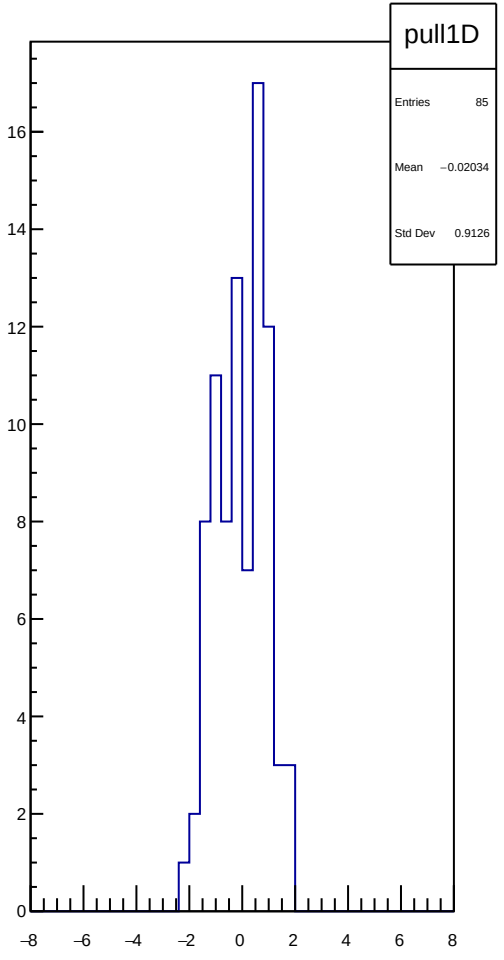

asym_atr_dd_reg_correction_rms vs run
χ^2 / ndf 8075 / 84
p0 6605 ± 5.208
8000
7500
7000
6500
6000
5500

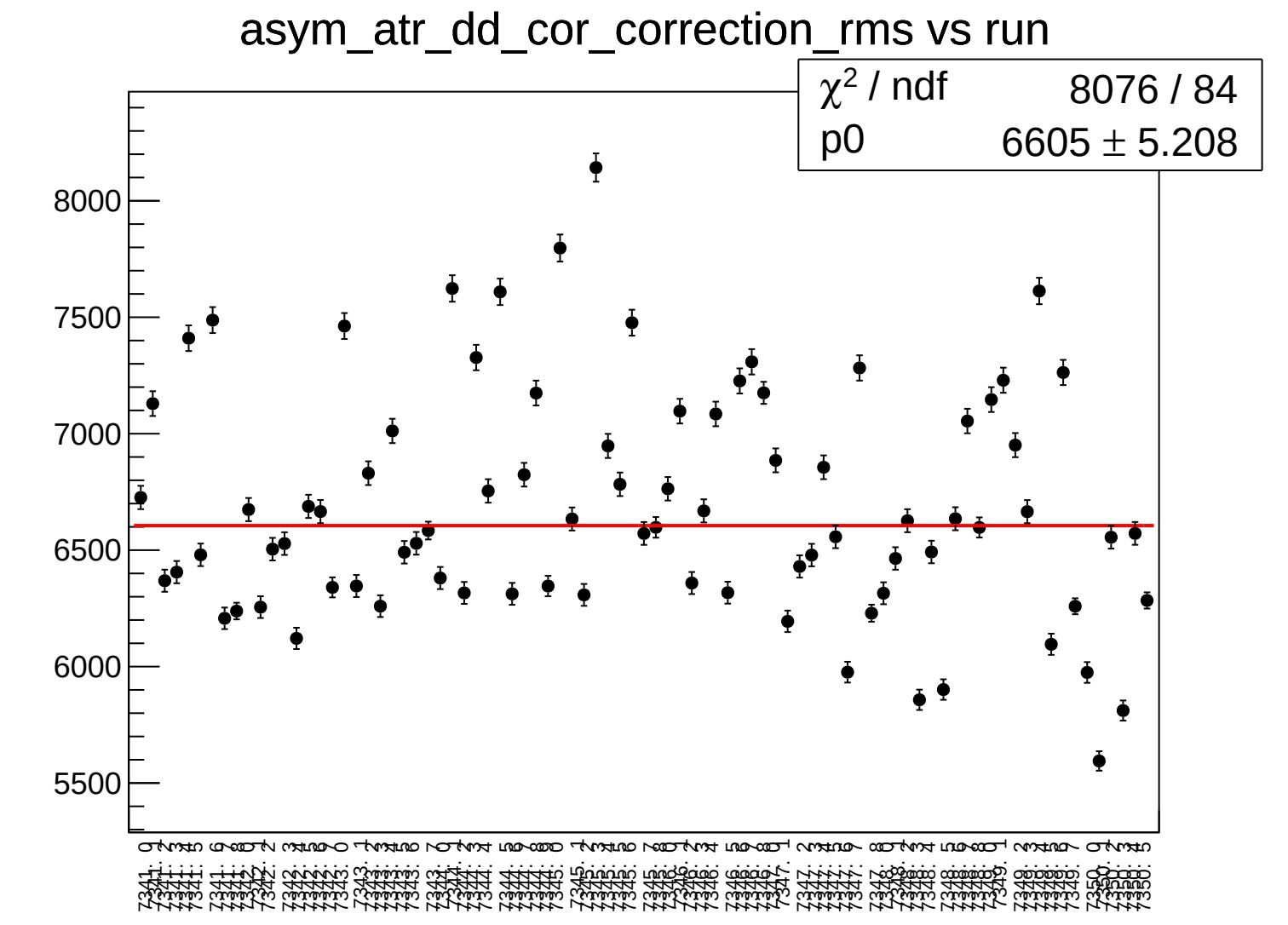

cor_asym_atr_dd_mean vs run
χ² / ndf 86.48 / 84
p0 −24.93 ± 2023
pull
Entries 85
Mean 155.8
Std Dev 0

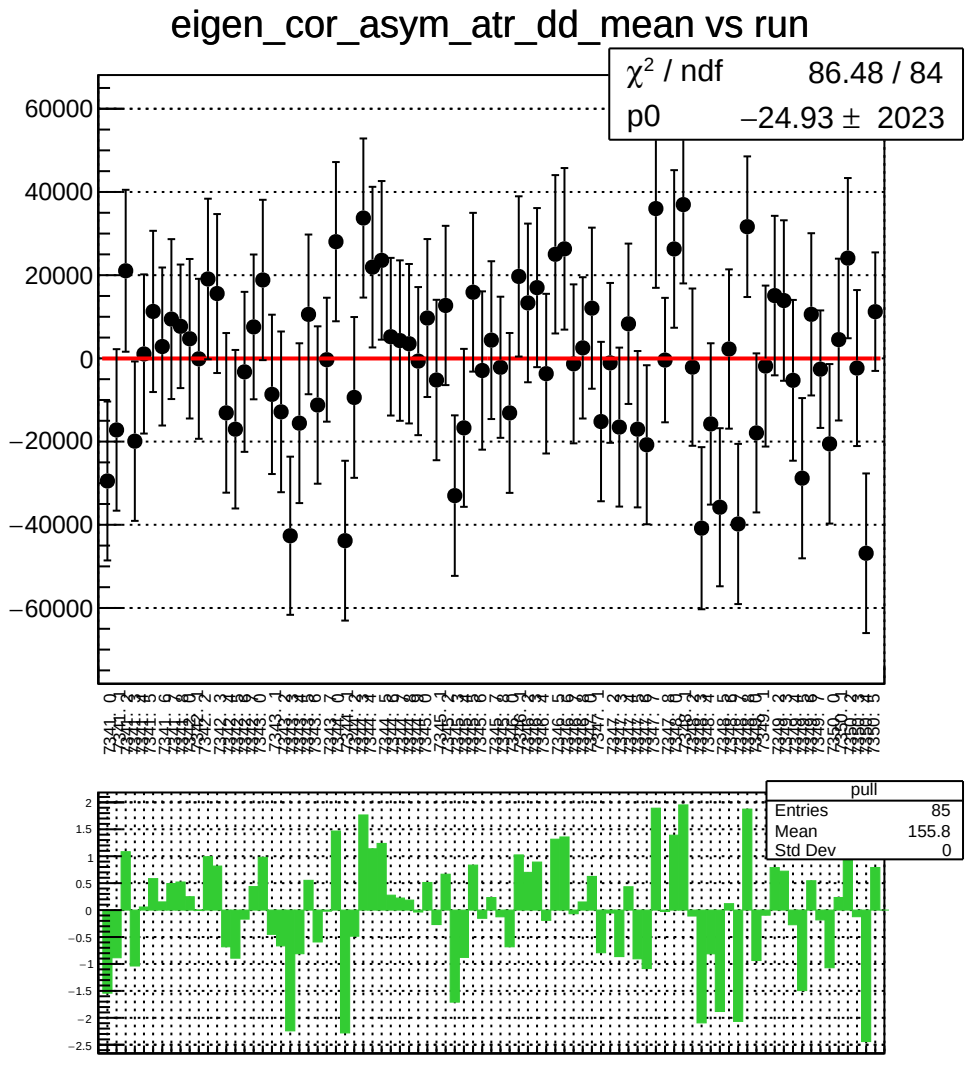

pull1D
Entries 85
Mean −0.007678
Std Dev 1.009

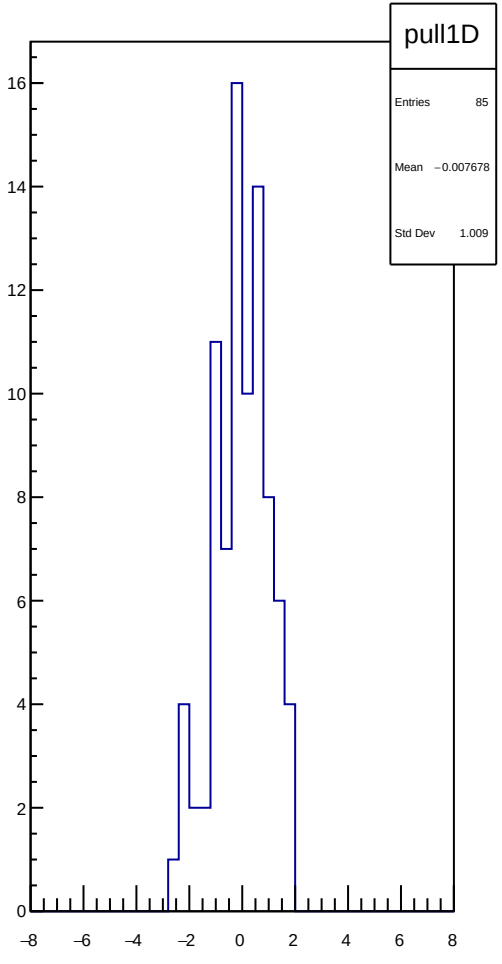

cor_asym_atr_dd_rms vs run
χ^2 / ndf 98.69 / 84
p0 1818 ± 1.43
1860
1840
1820
1800
1780
1760

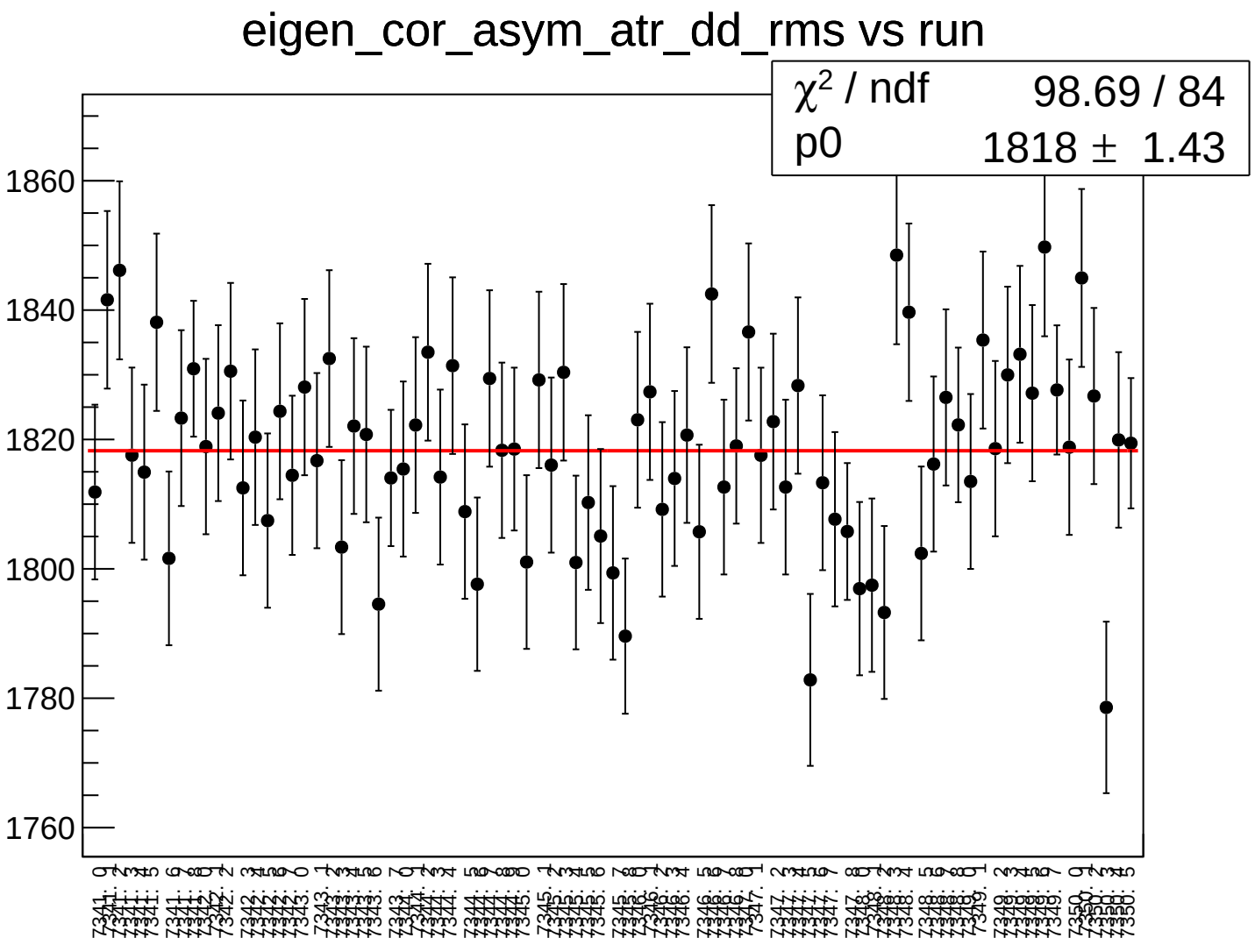

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 70.82 / 84
p0 3110 ± 7366
pull
Entries 85
Mean −129.4
Std Dev 0

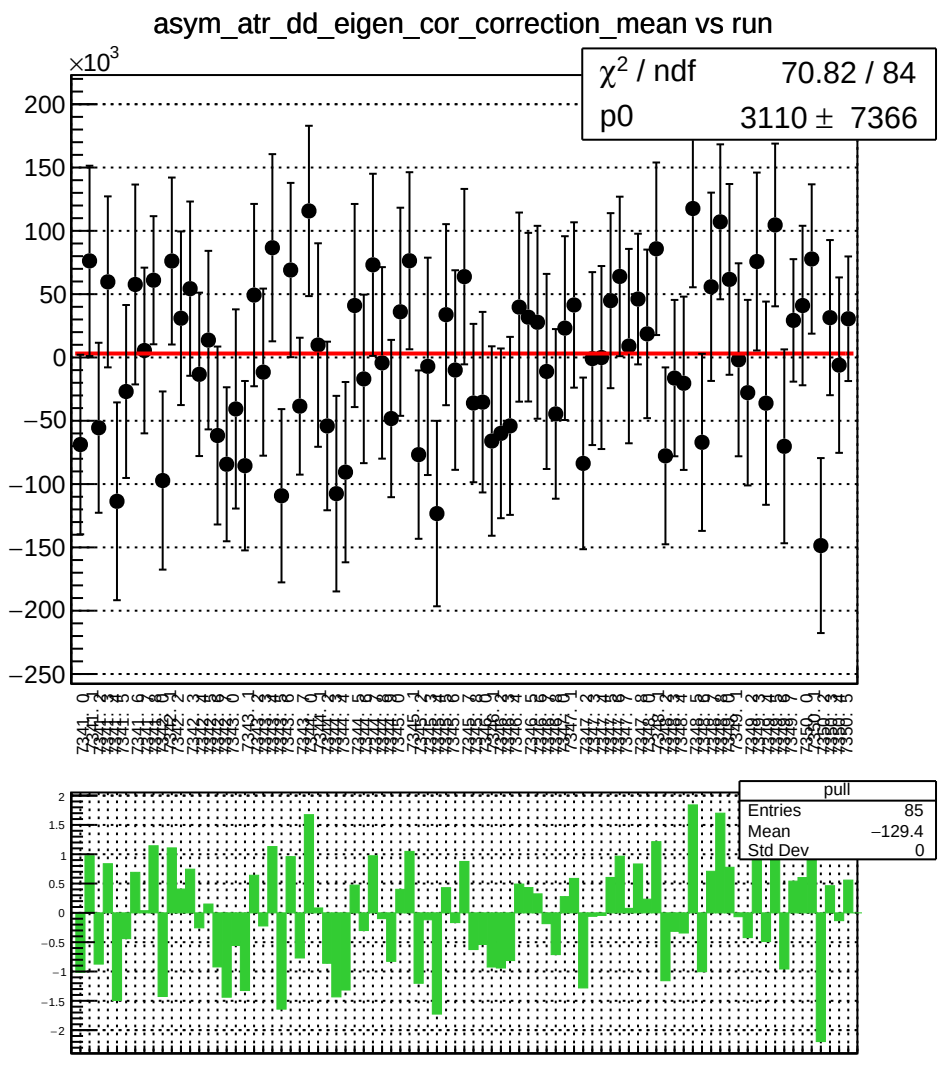

pull1D
Entries 85
Mean −0.02034
Std Dev 0.9126

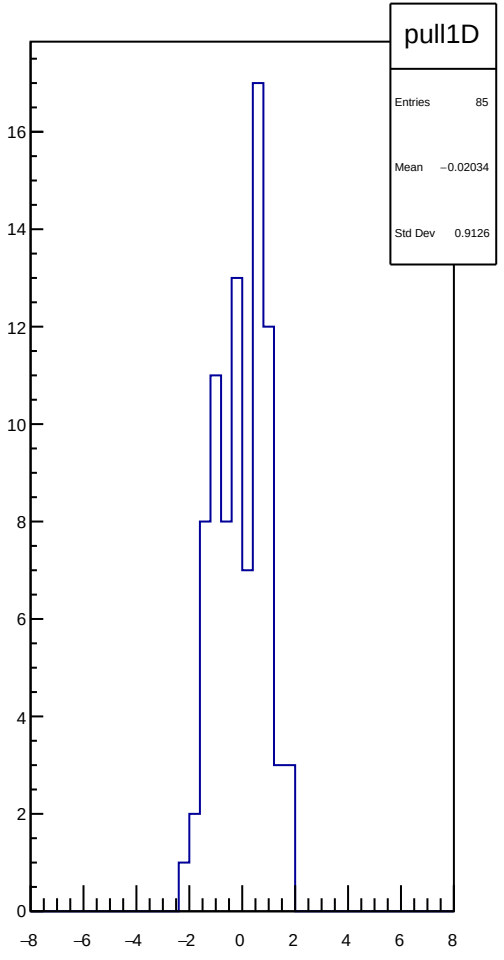

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 8076 / 84
p0 6605 ± 5.208
8000
7500
7000
6500
6000
5500

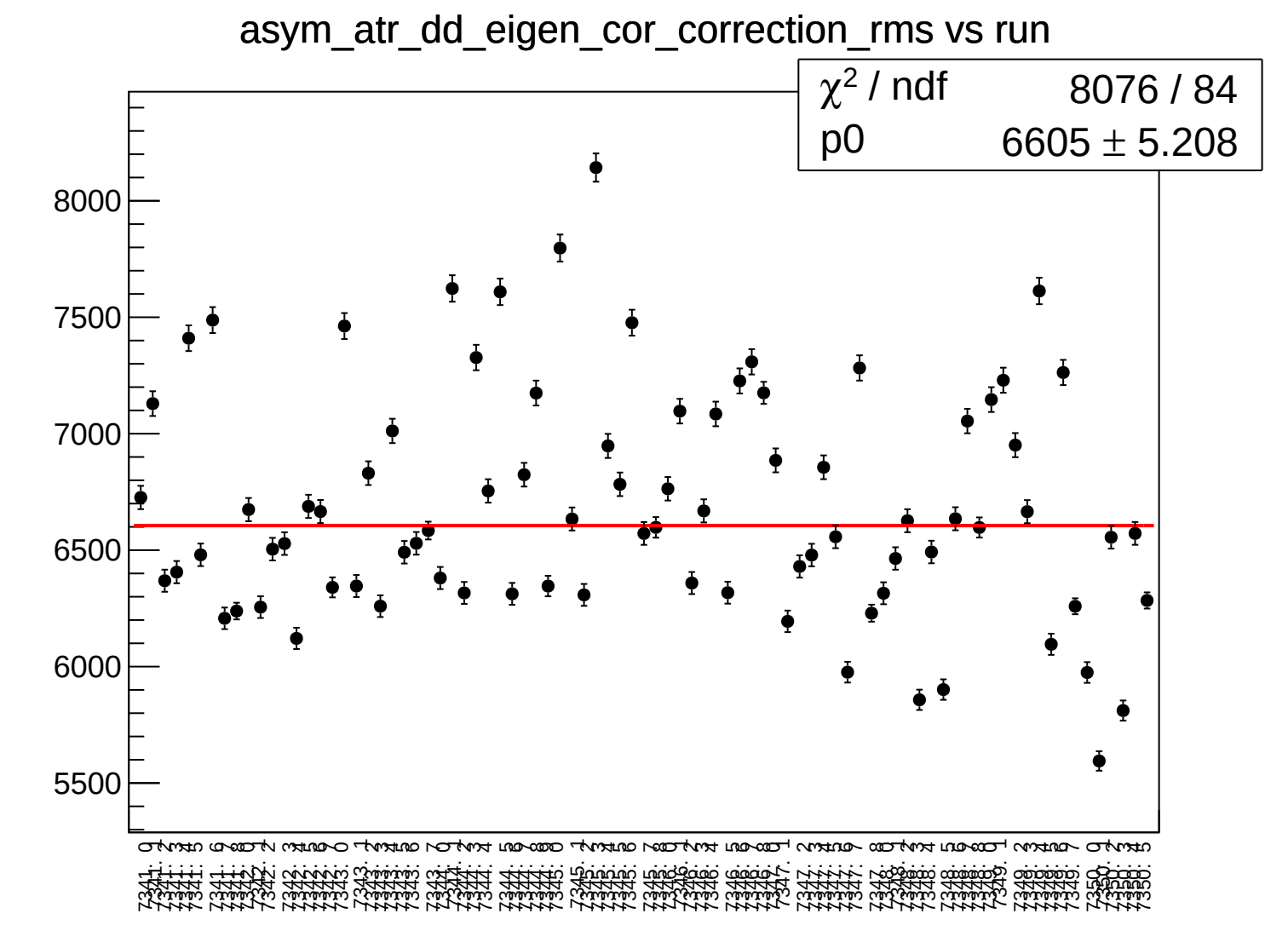

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 86.48 / 84
p0 −24.93 ± 2023
pull
Entries 85
Mean 155.8
Std Dev 0

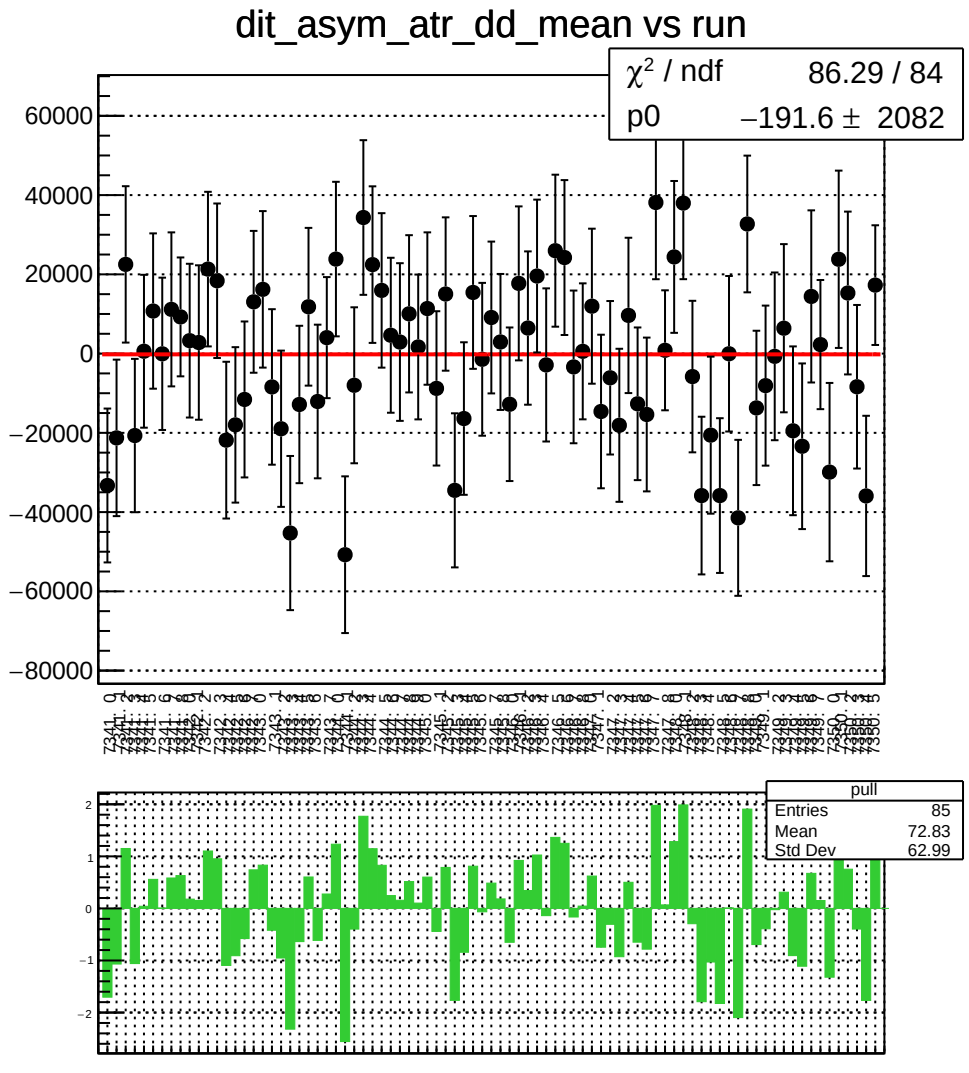

pull1D
Entries 85
Mean −0.007678
Std Dev 1.009

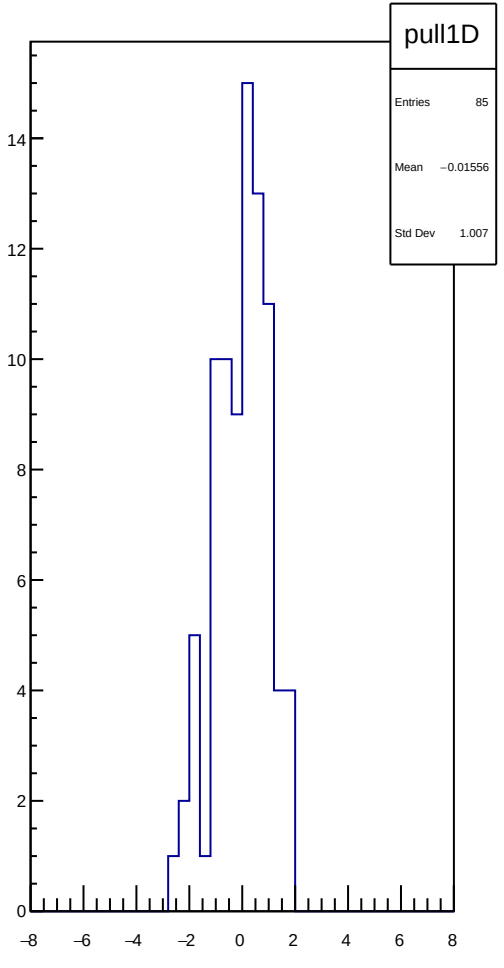

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 98.69 / 84
p0 1818 ± 1.43
1860
1840
1820
1800
1780
1760

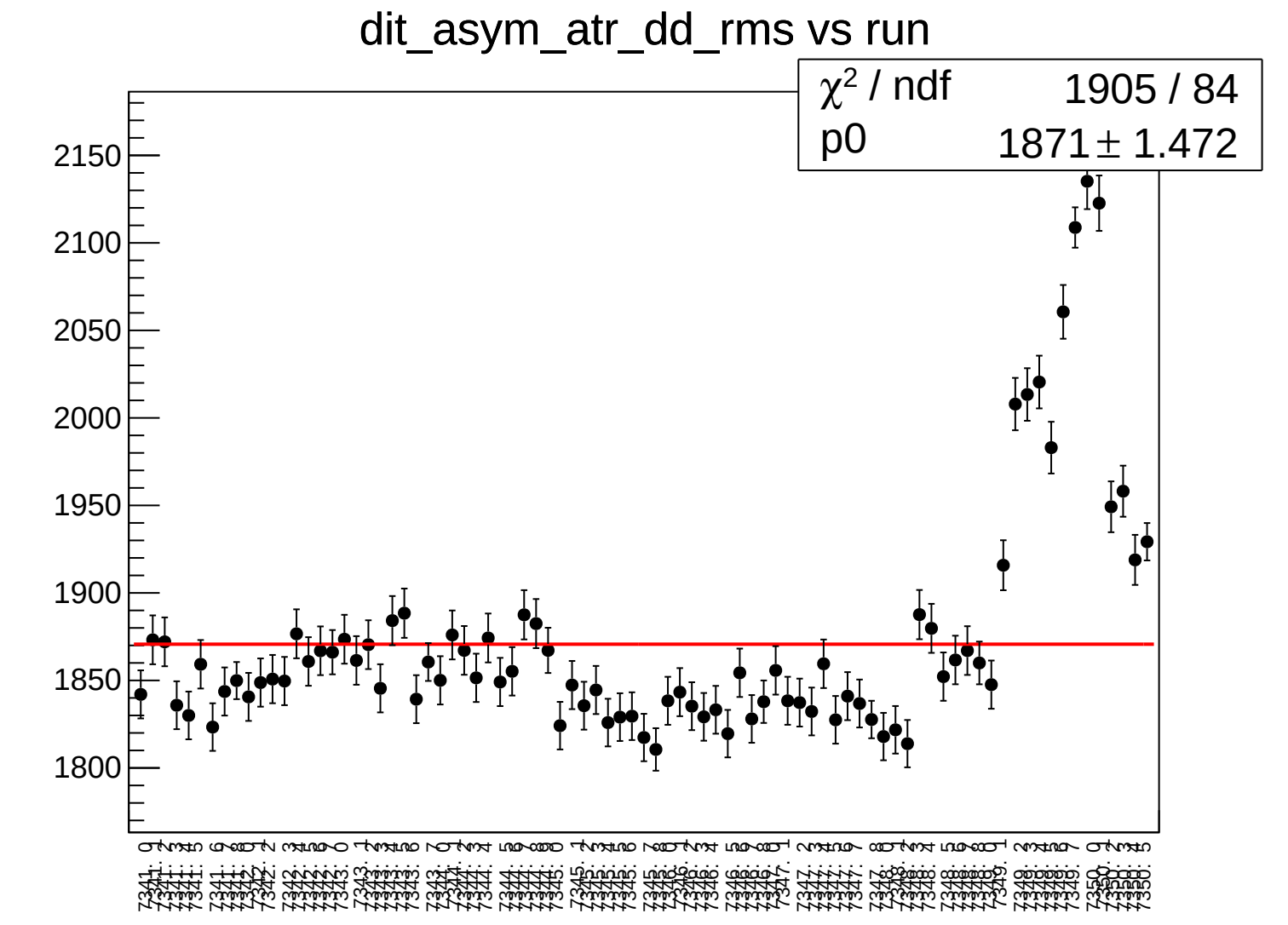

asym_atr_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.82 / 84
p0 3110 ± 7366
pull
Entries 85
Mean −129.4
Std Dev 0

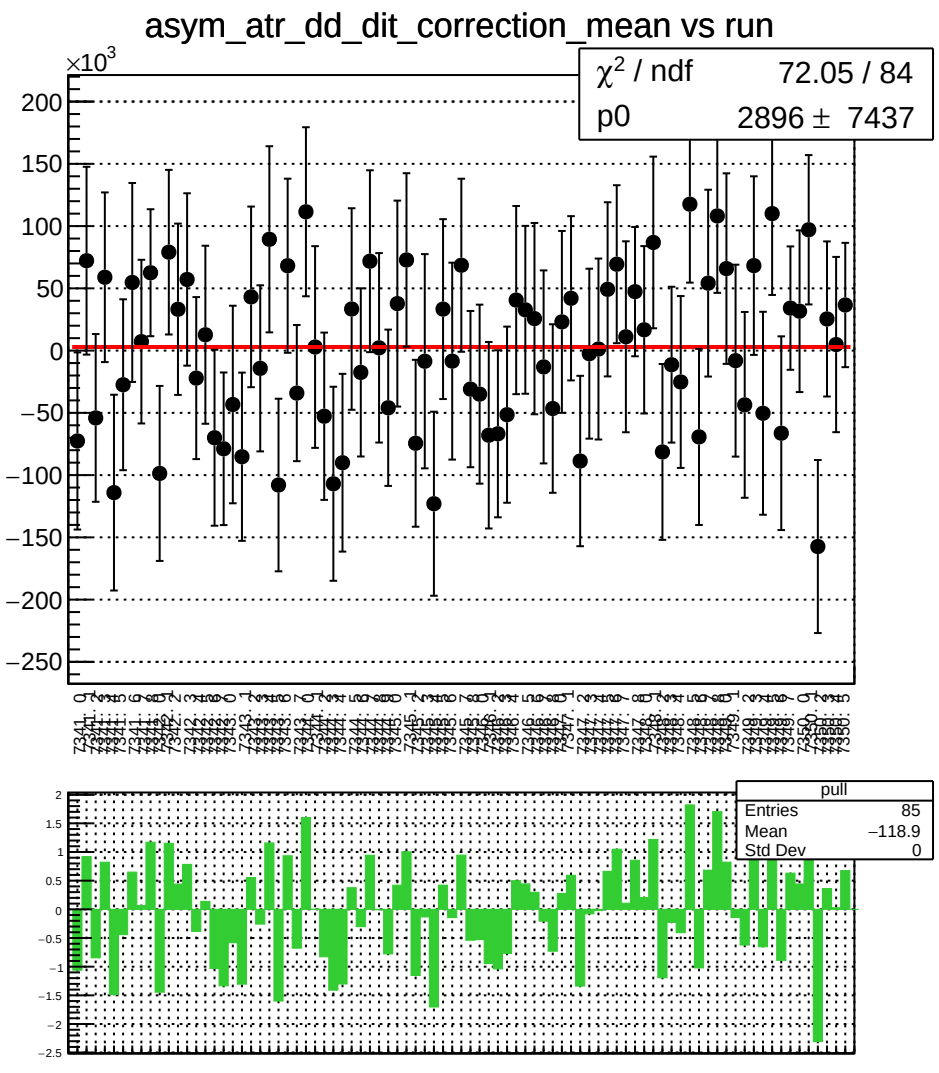

pull1D
Entries 85
Mean −0.02034
Std Dev 0.9126

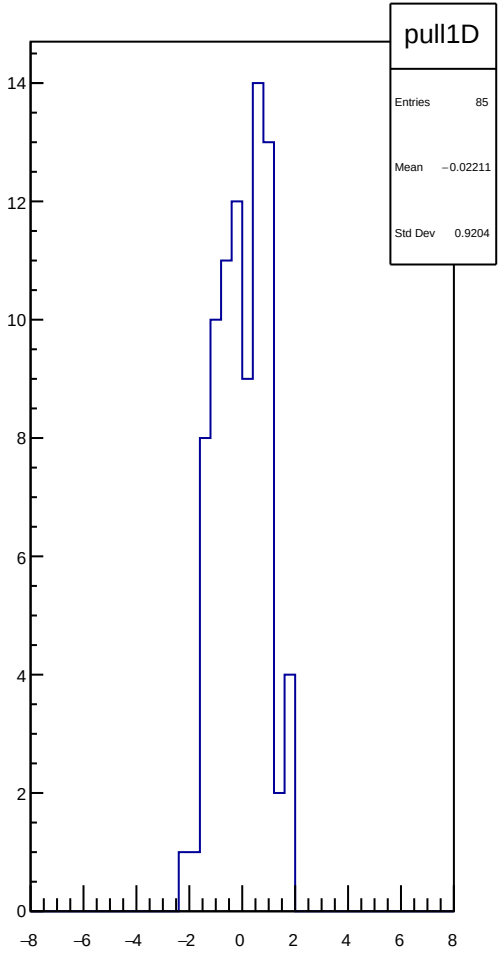

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 8076 / 84
p0 6605 ± 5.208
8000
7500
7000
6500
6000
5500

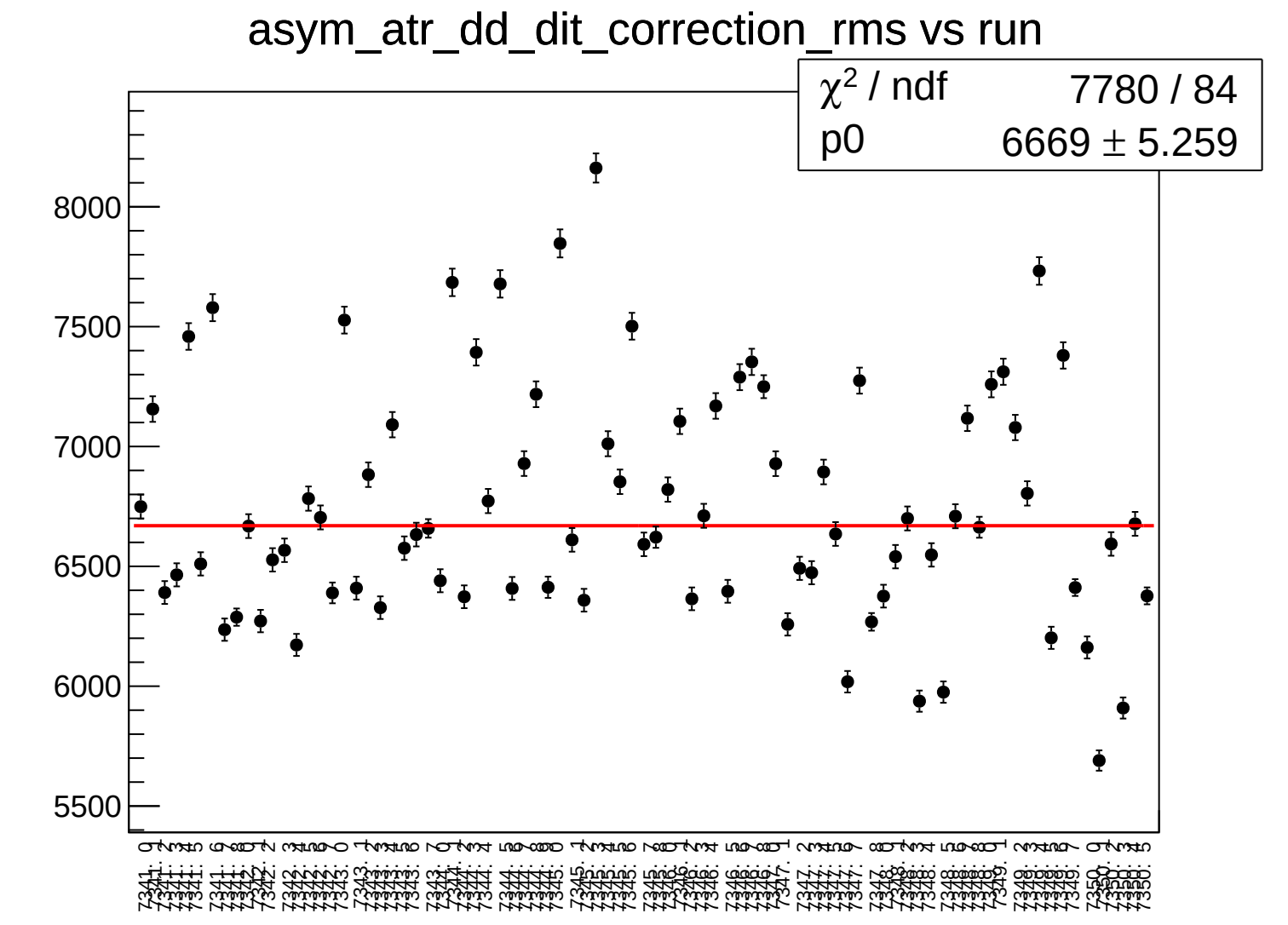

dit_asym_atr_dd_mean vs run
χ² / ndf 86.29 / 84
p0 −191.6 ± 2082
pull
Entries 85
Mean 72.83
Std Dev 62.99

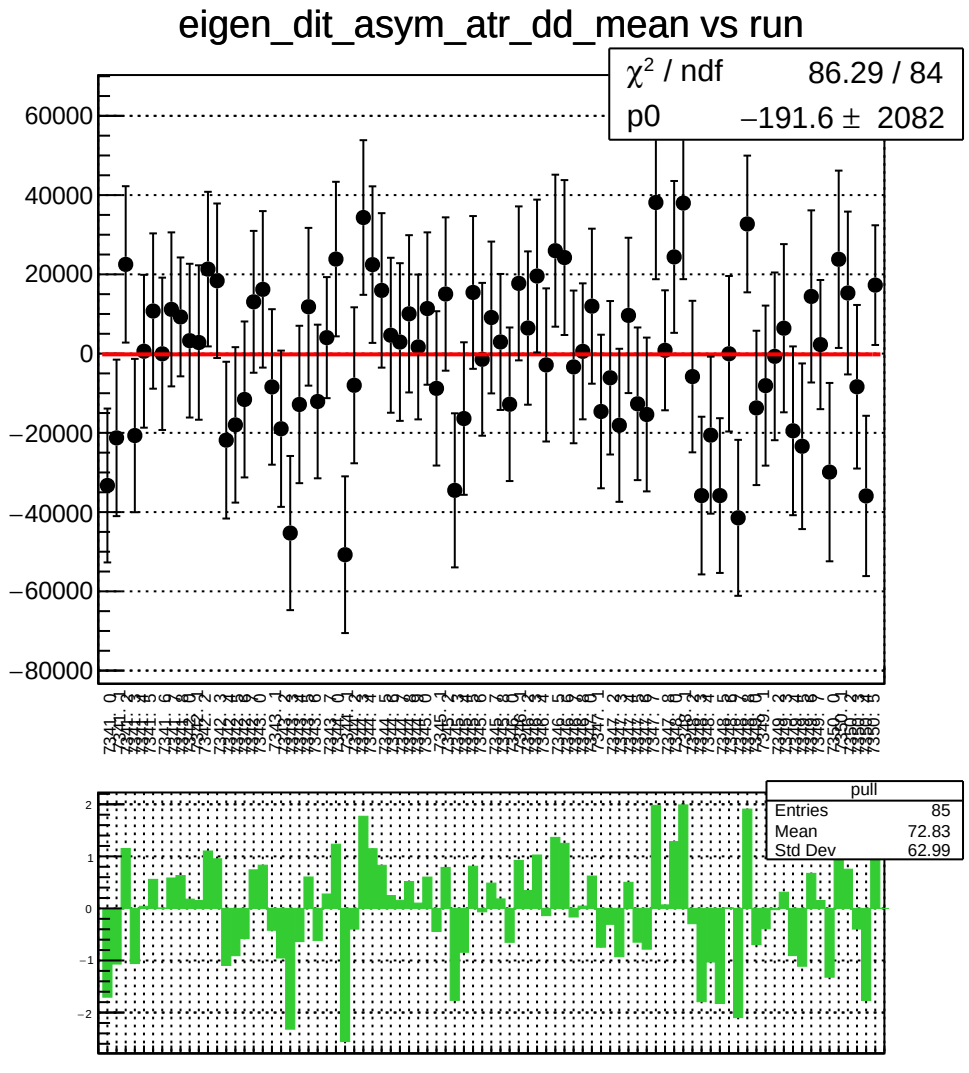

pull1D
Entries 85
Mean −0.01556
Std Dev 1.007

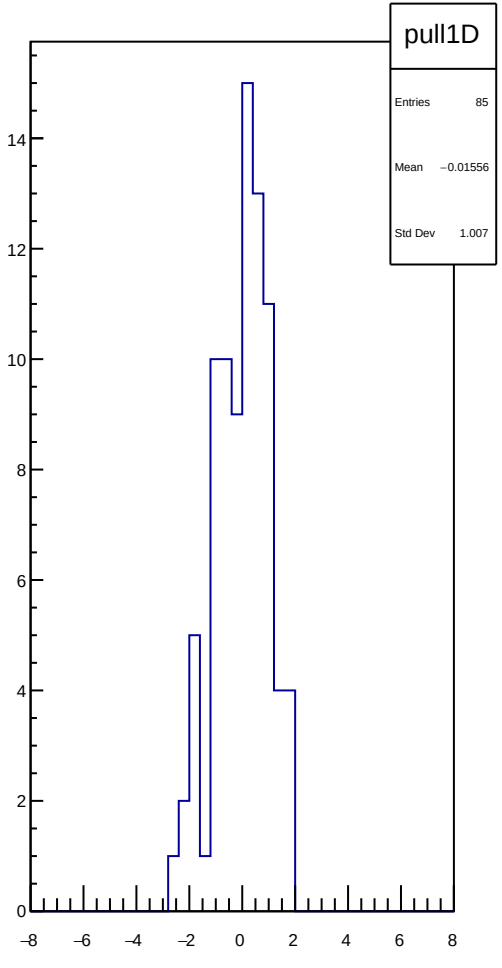

dit_asym_atr_dd_rms vs run
χ² / ndf 1905 / 84
p0 1871 ± 1.472
2150
2100
2050
2000
1950
1900
1850
1800

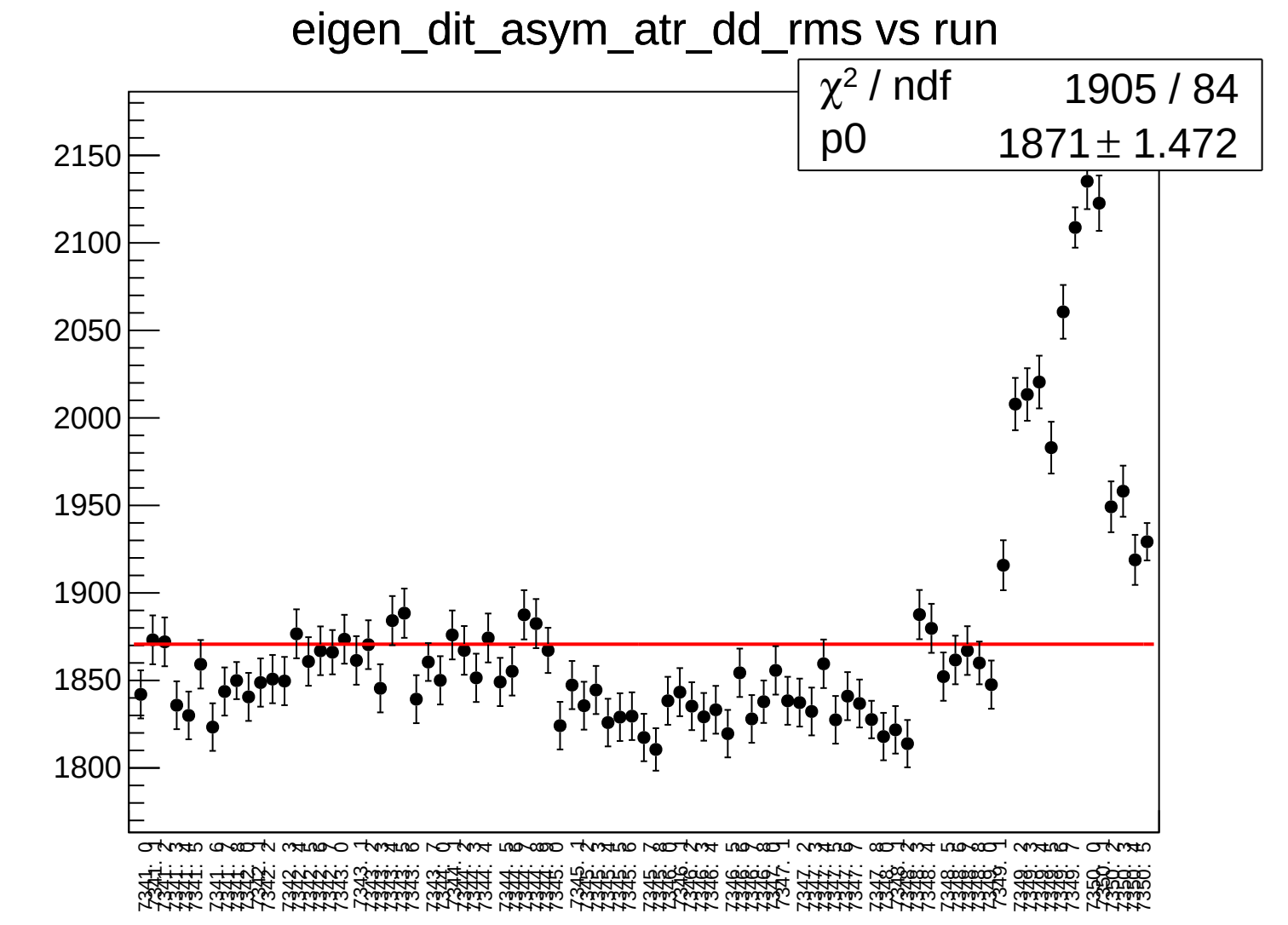

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 72.05 / 84
p0 2896 ± 7437
pull
Entries 85
Mean −118.9
Std Dev 0

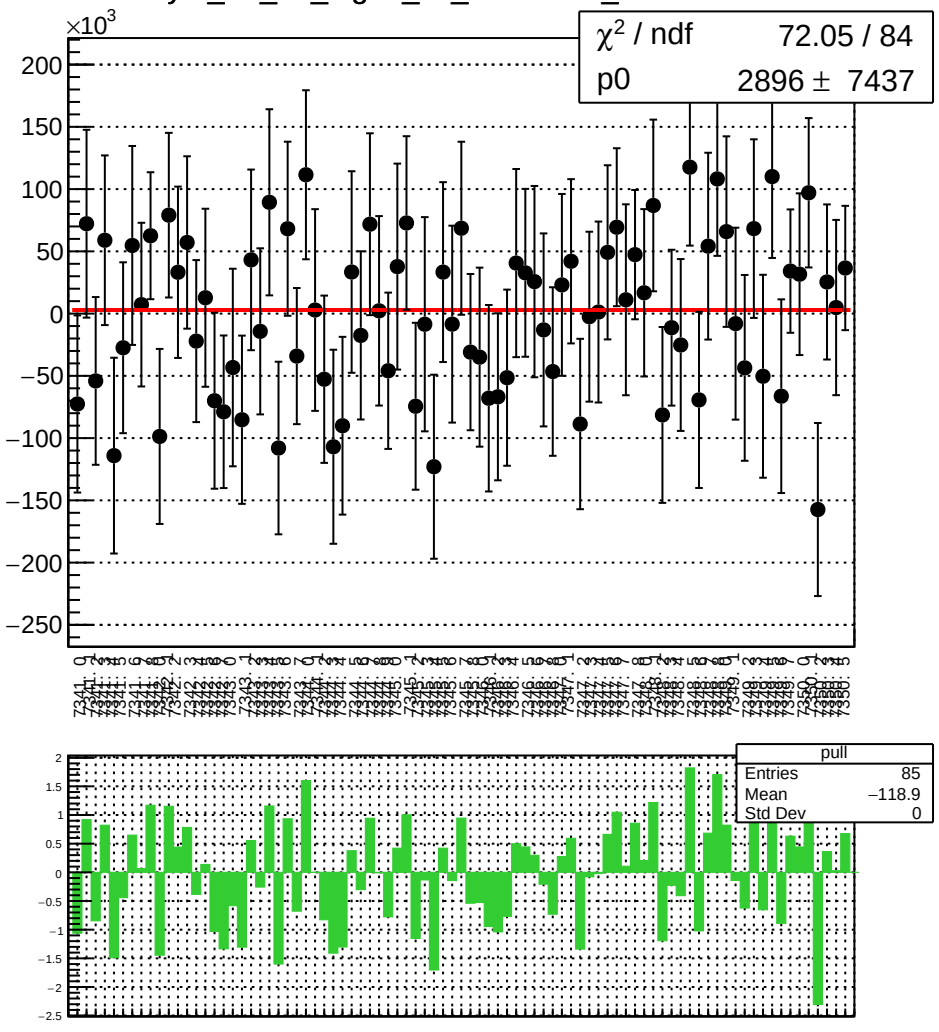

pull1D
Entries 85
Mean −0.02211
Std Dev 0.9204

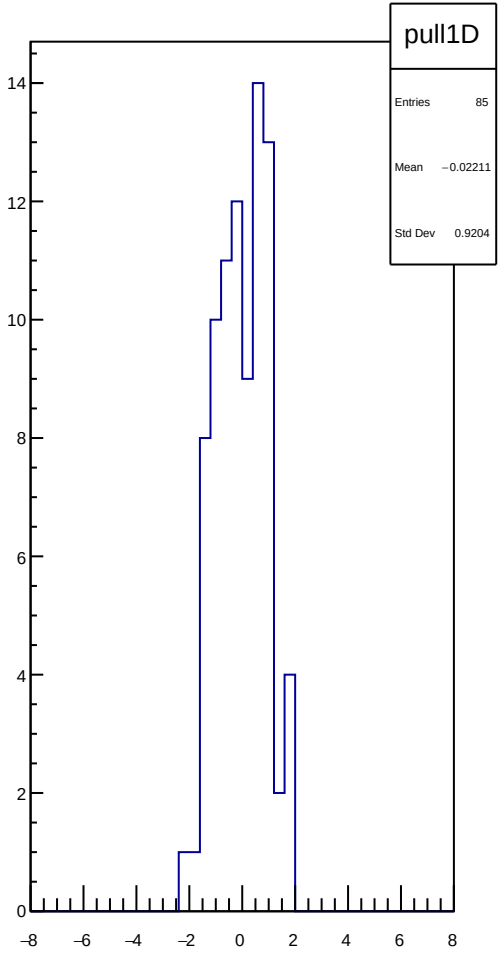

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 7780 / 84
p0 6669 ± 5.259
8000
7500
7000
6500
6000
5500

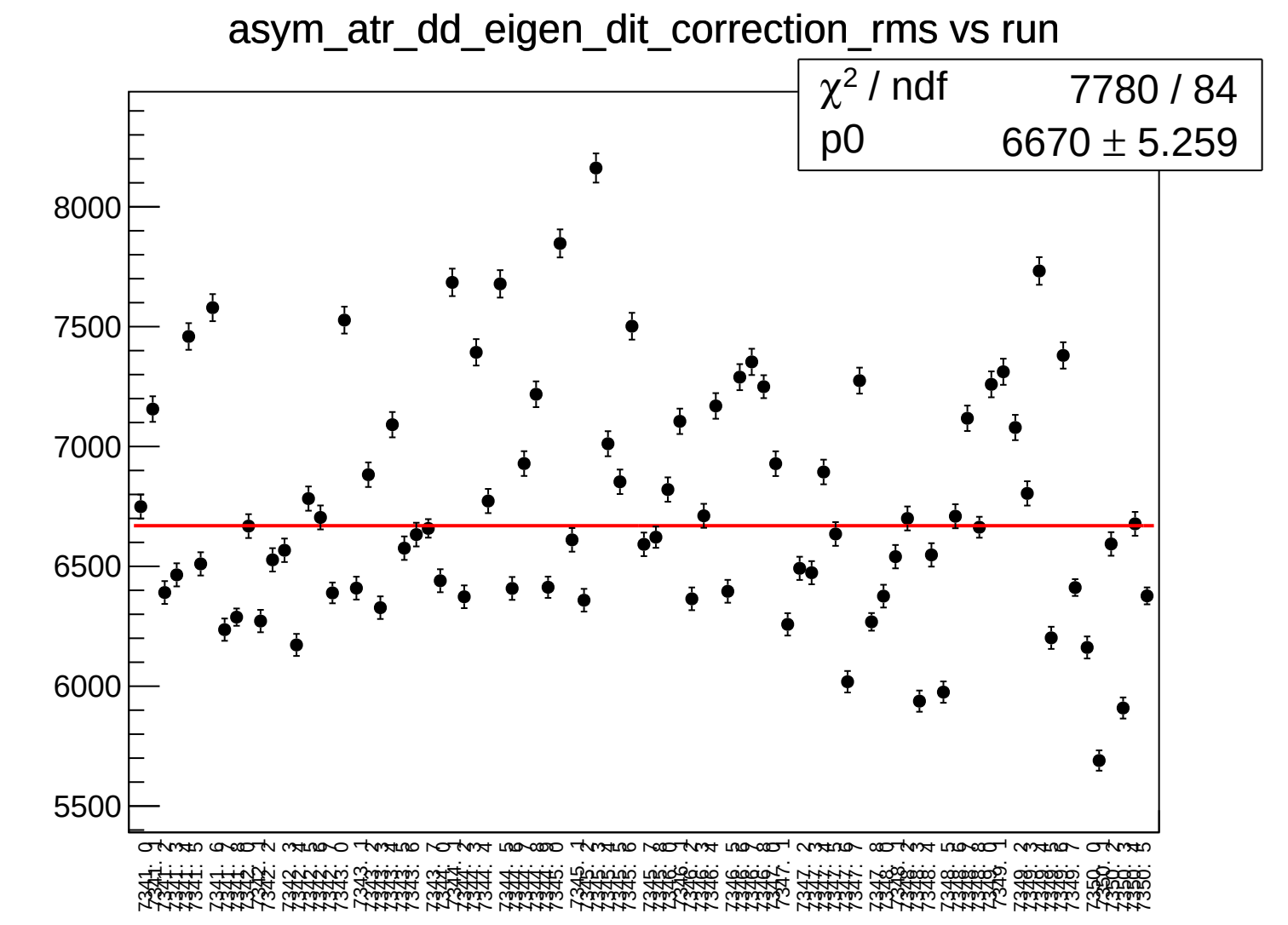

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 86.29 / 84
p0 −191.6 ± 2082
pull
Entries 85
Mean 72.83
Std Dev 62.99

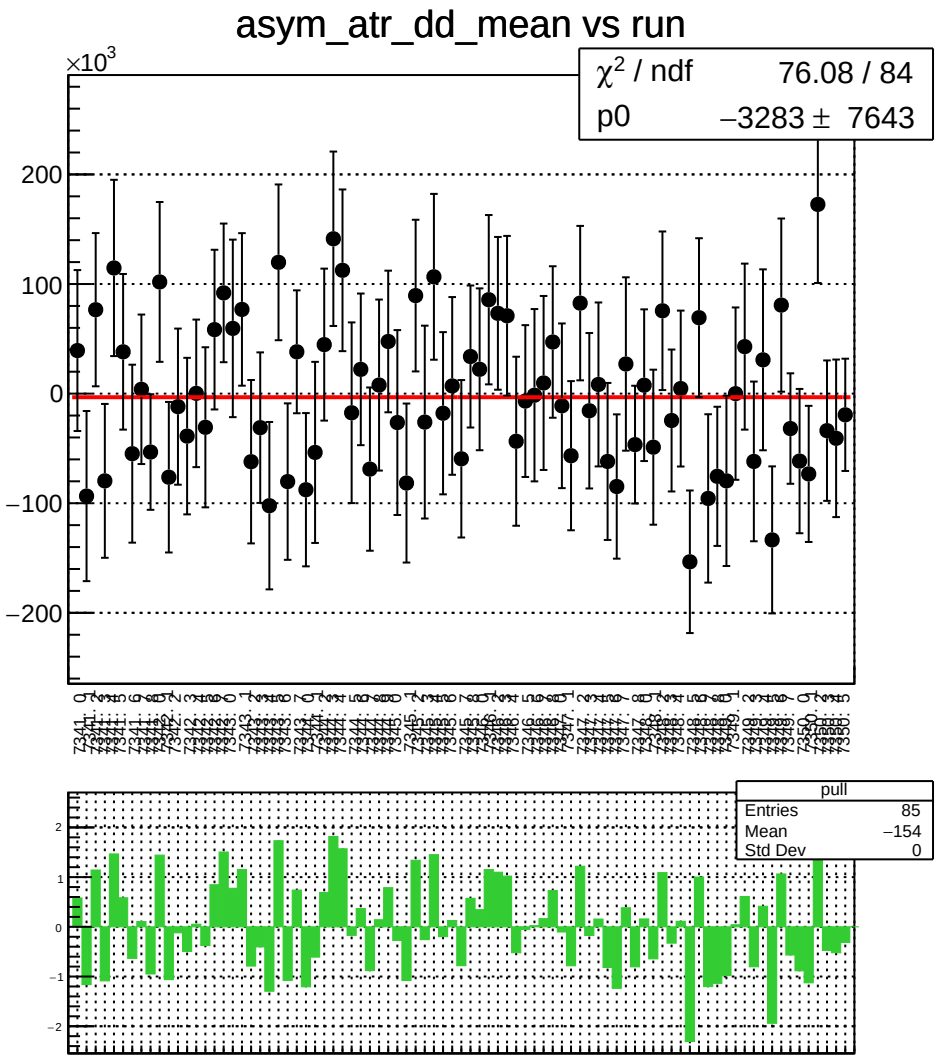

pull1D
Entries 85
Mean −0.01556
Std Dev 1.007

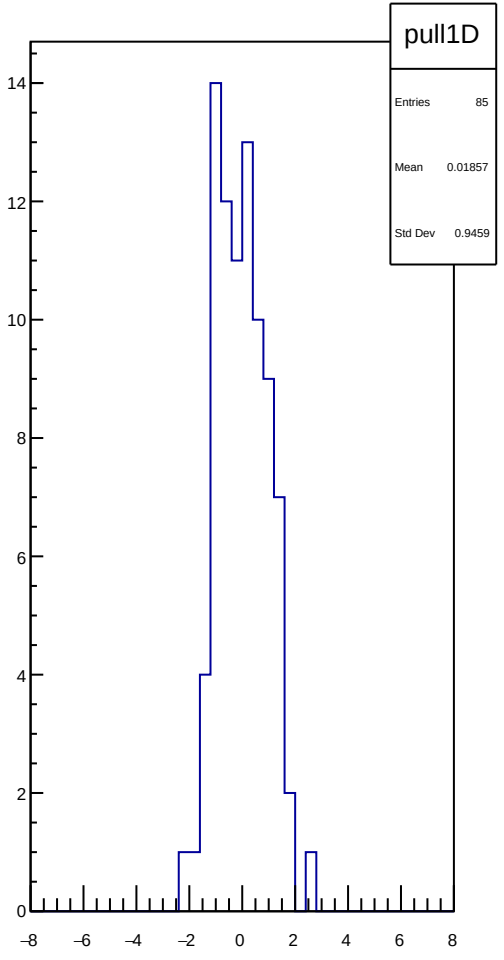

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 1905 / 84
p0 1871 ± 1.472
2150
2100
2050
2000
1950
1900
1850
1800

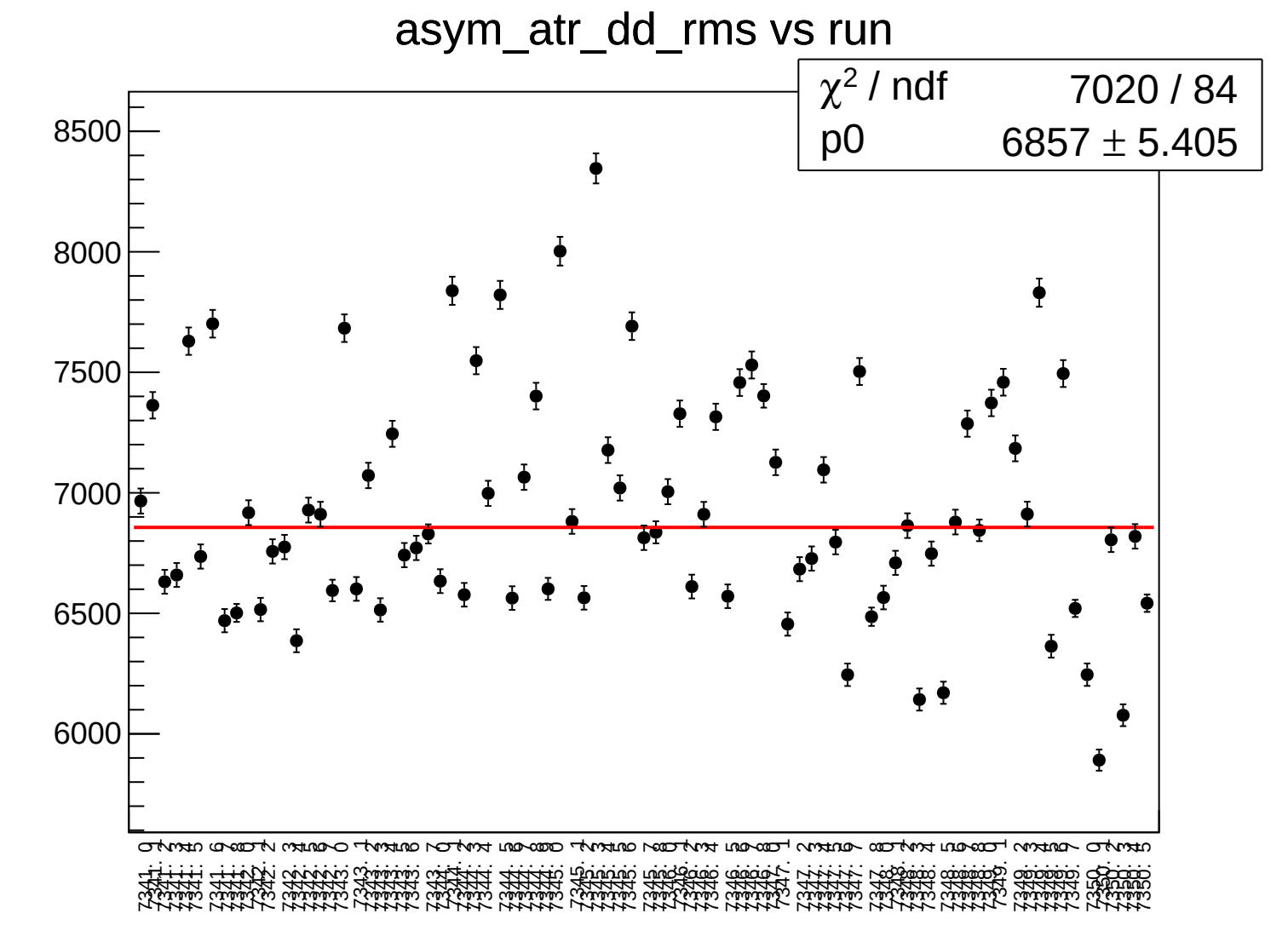

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.05 / 84
p0 2896 ± 7437
pull
Entries 85
Mean −118.9
Std Dev 0

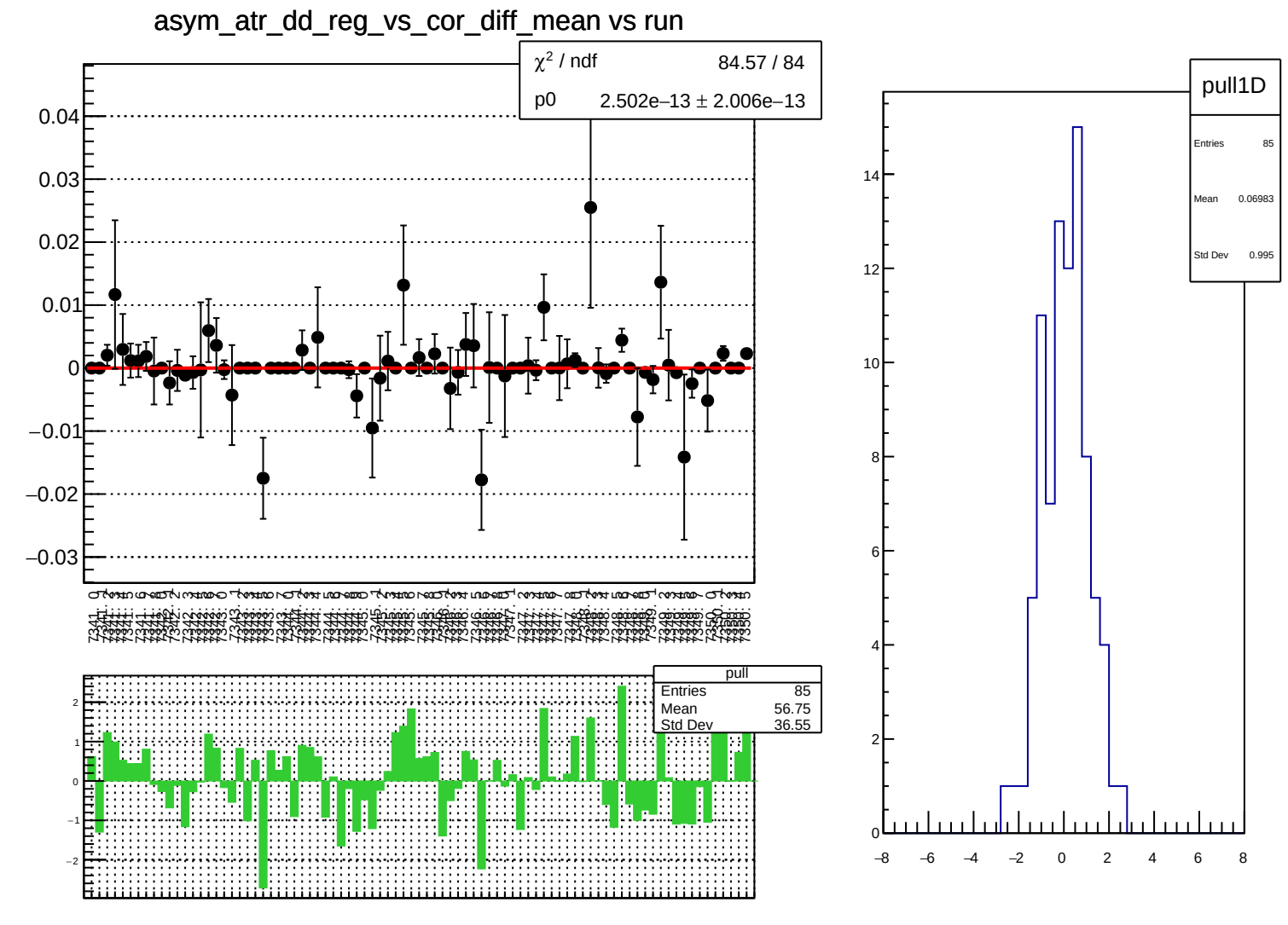

pull1D
Entries 85
Mean −0.02211
Std Dev 0.9204

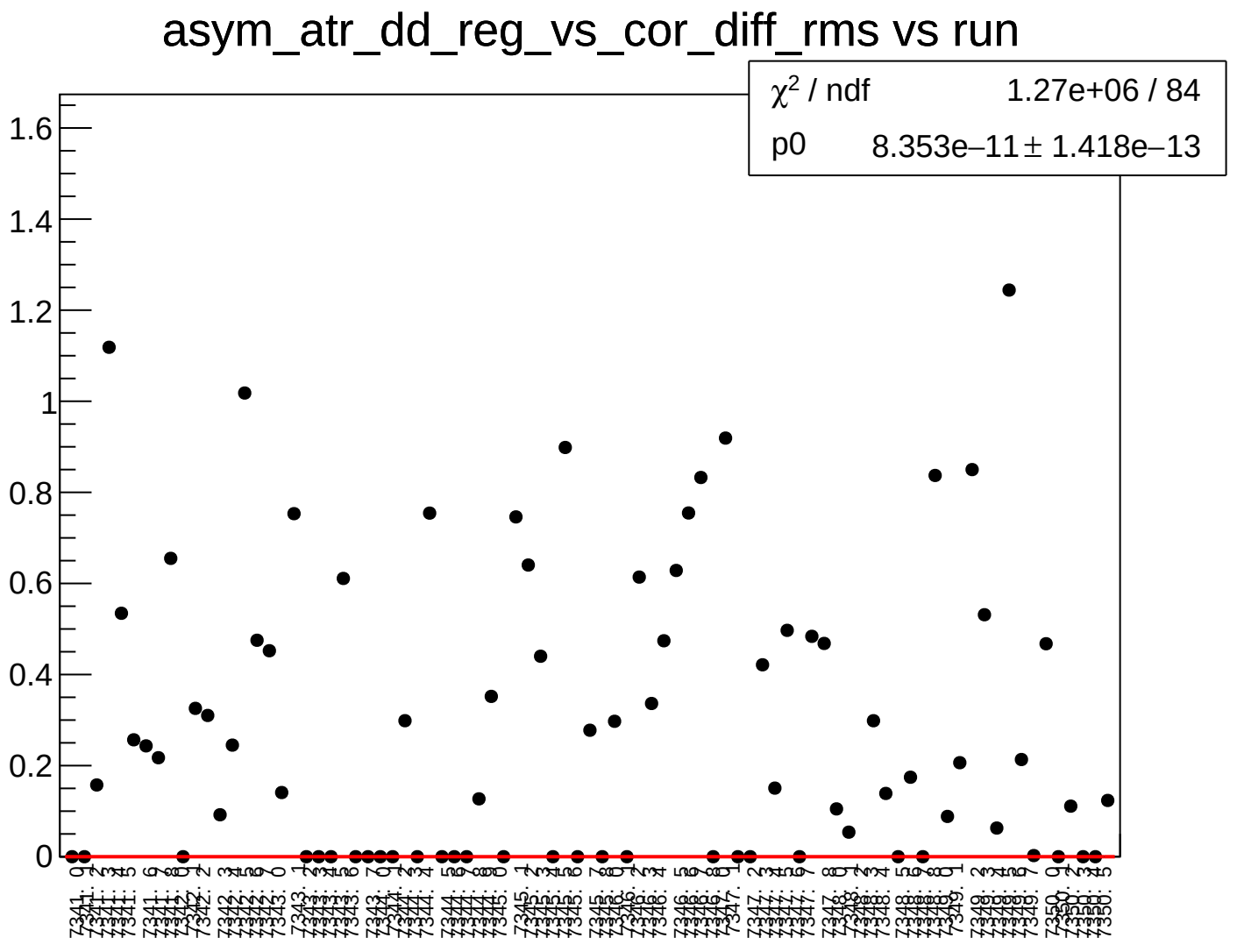

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 7780 / 84
p0 6670 ± 5.259
8000
7500
7000
6500
6000
5500

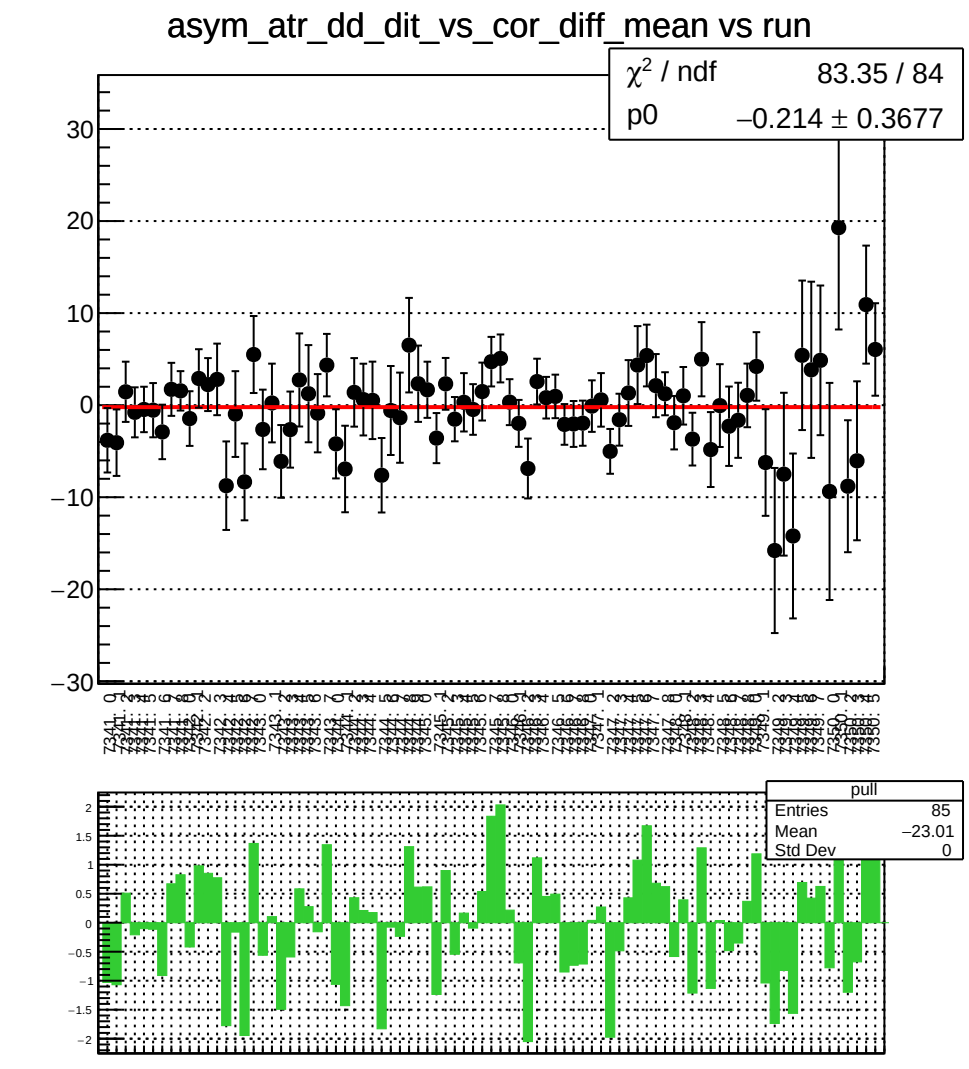

asym_atr_dd_mean vs run
×10^3
χ² / ndf 76.08 / 84
p0 −3283 ± 7643
200
100
0
−100
−200
pull
Entries 85
Mean −154
Std Dev 0
2
1
0
−1
−2

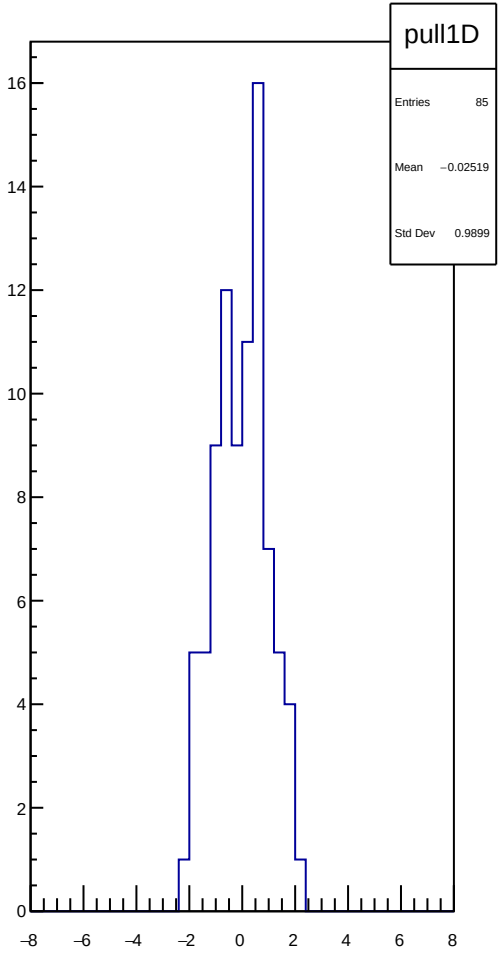

pull1D
Entries 85
Mean 0.01857
Std Dev 0.9459
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

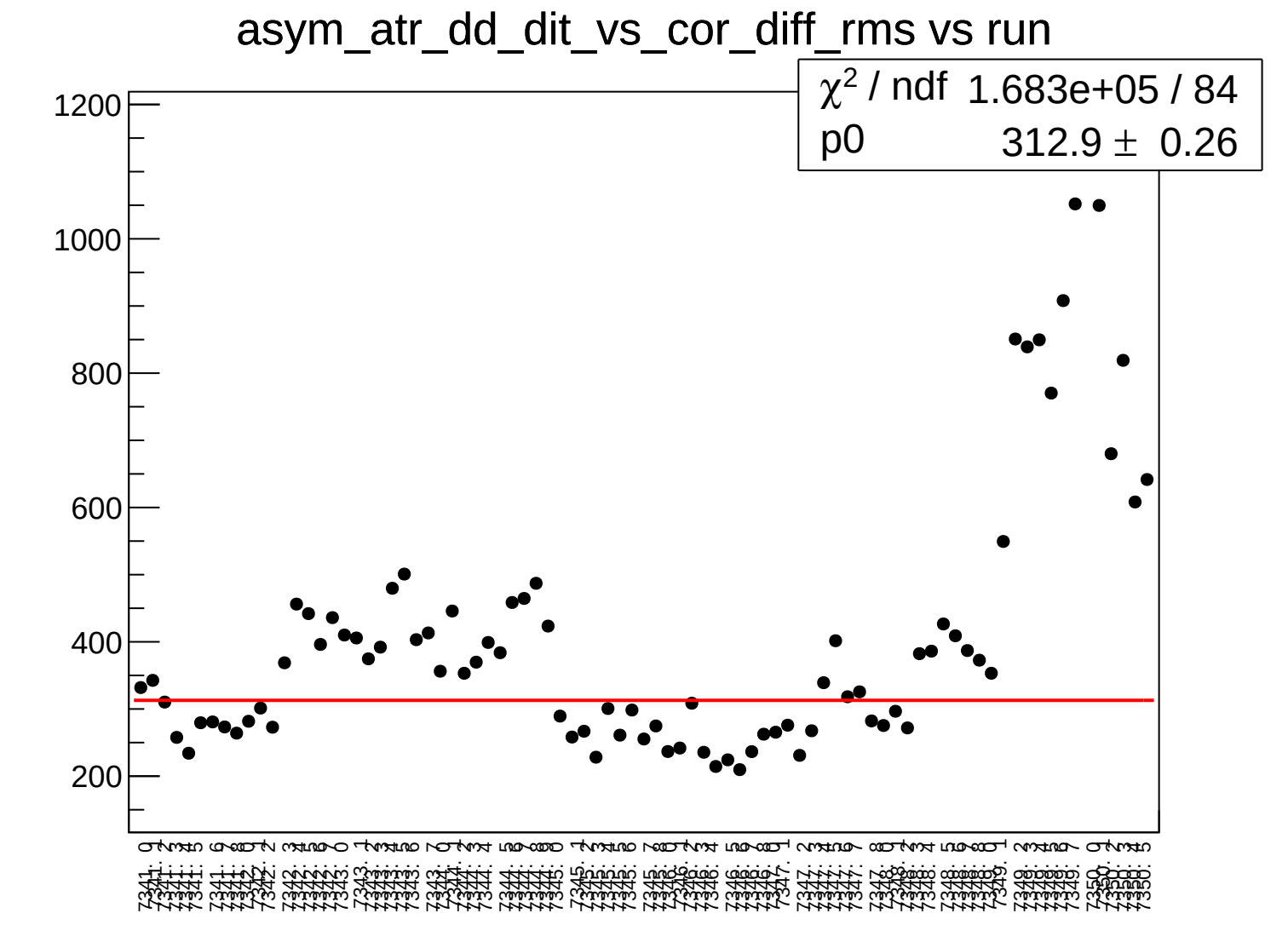

asym_atr_dd_rms vs run
χ² / ndf 7020 / 84
p0 6857 ± 5.405
8500
8000
7500
7000
6500
6000

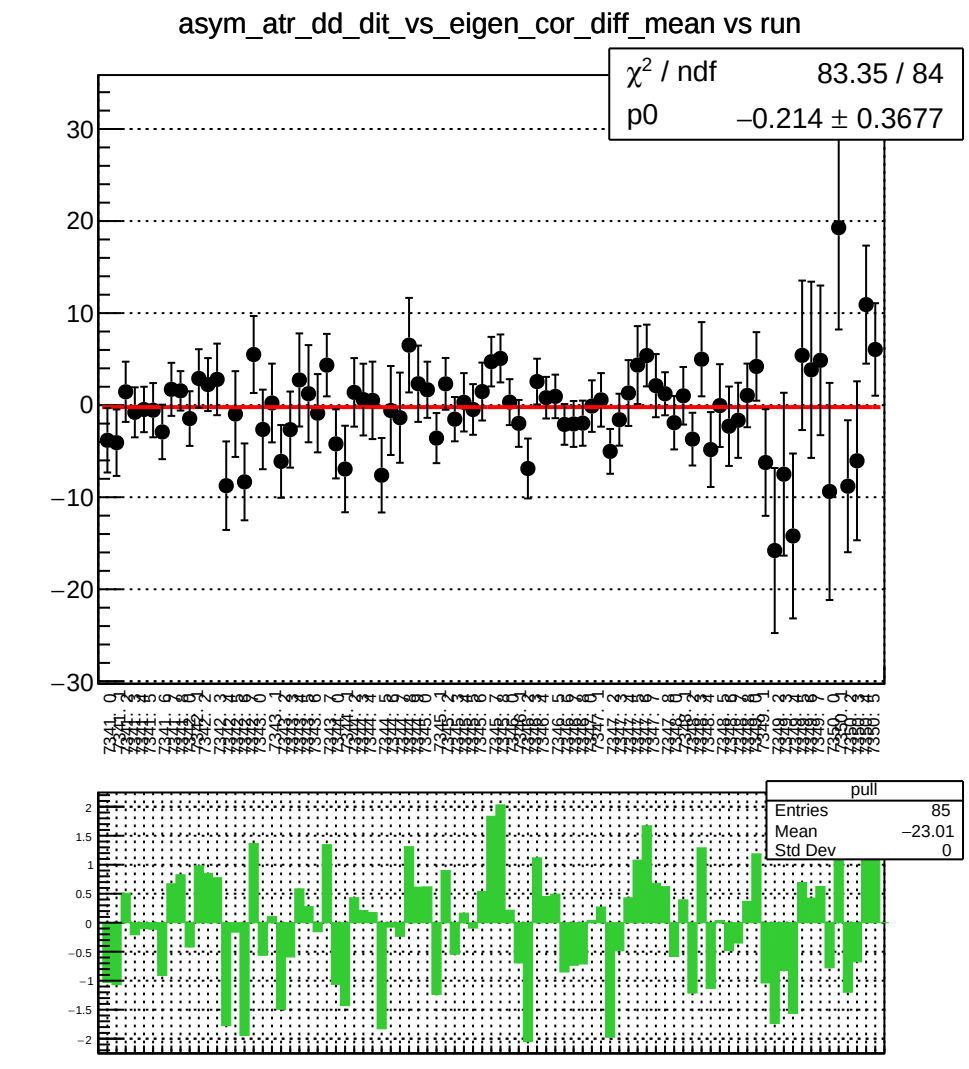

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.57 / 84
p0 2.502e−13 ± 2.006e−13
pull
Entries 85
Mean 56.75
Std Dev 36.55
pull1D
Entries 85
Mean 0.06983
Std Dev 0.995

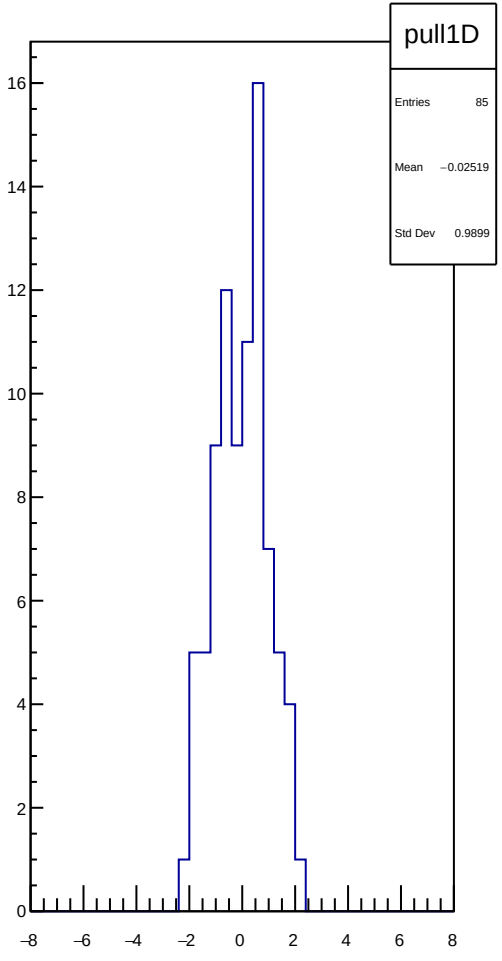

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.27e+06 / 84
p0 8.353e−11 ± 1.418e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

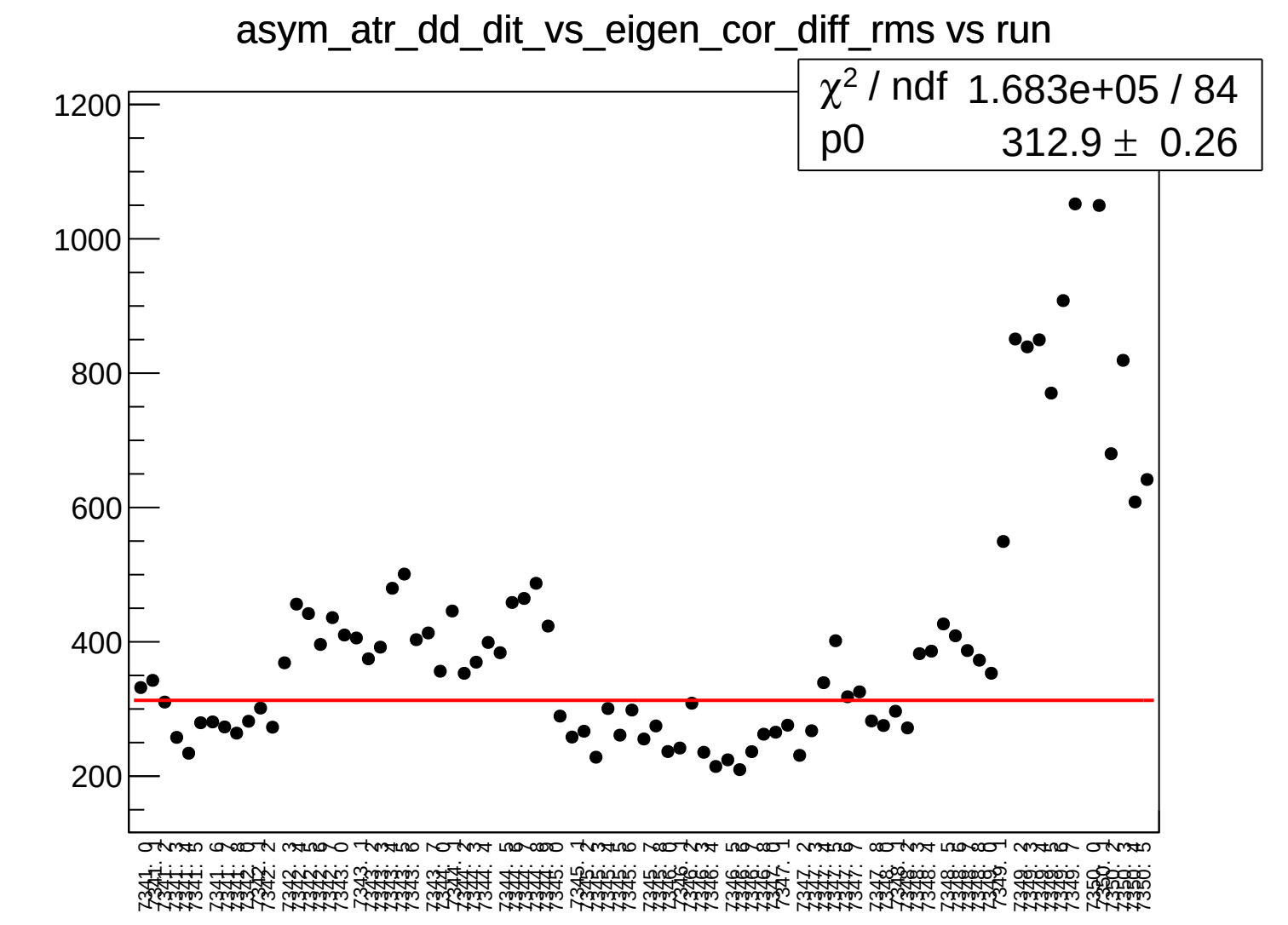

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.35 / 84
p0 −0.214 ± 0.3677
pull
Entries 85
Mean −23.01
Std Dev 0

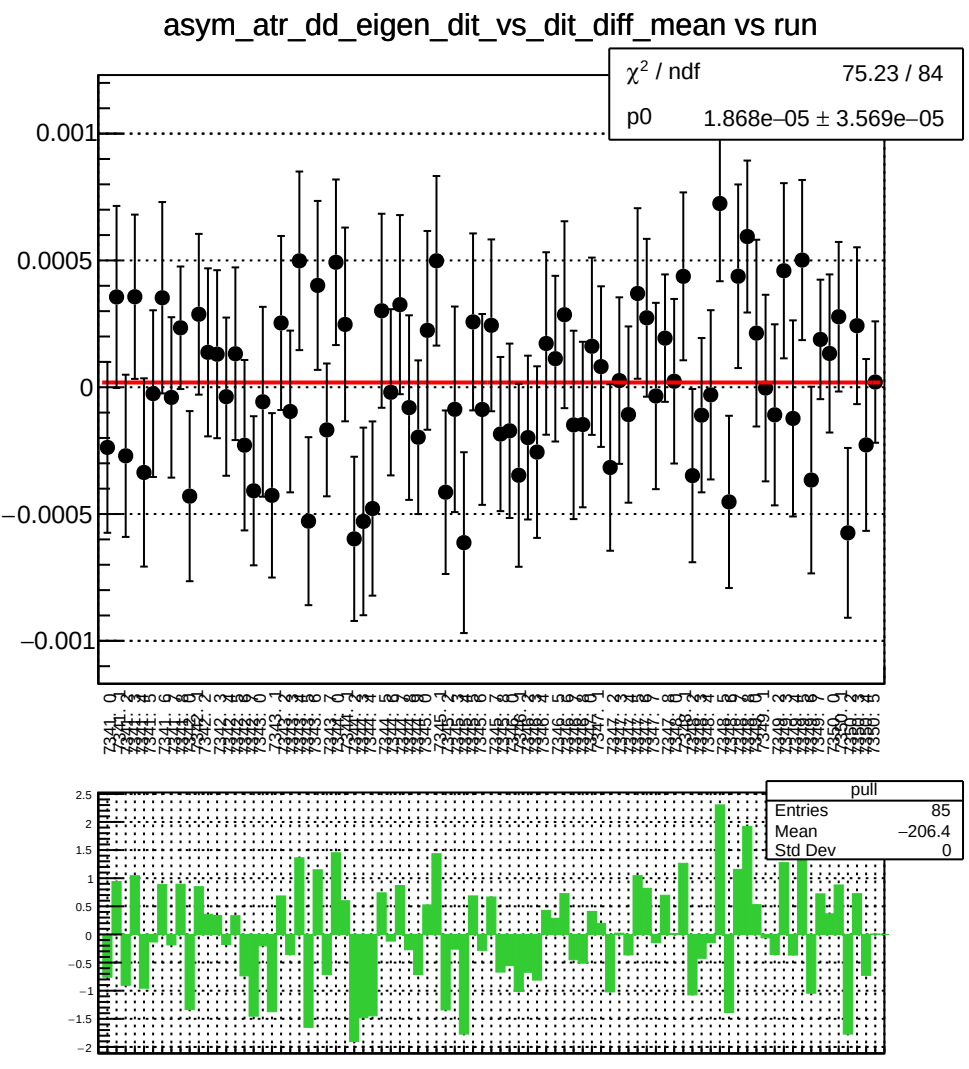

pull1D
Entries 85
Mean −0.02519
Std Dev 0.9899

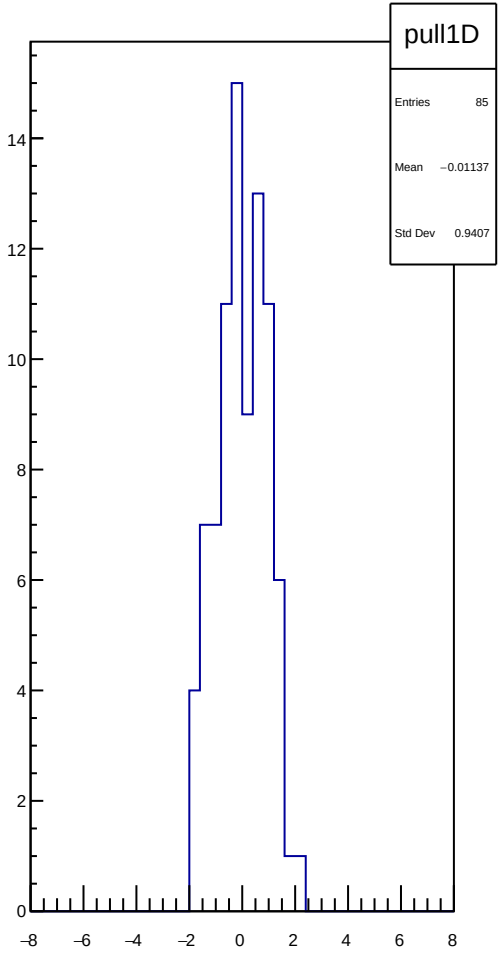

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 84
p0 312.9 ± 0.26
1200
1000
800
600
400
200

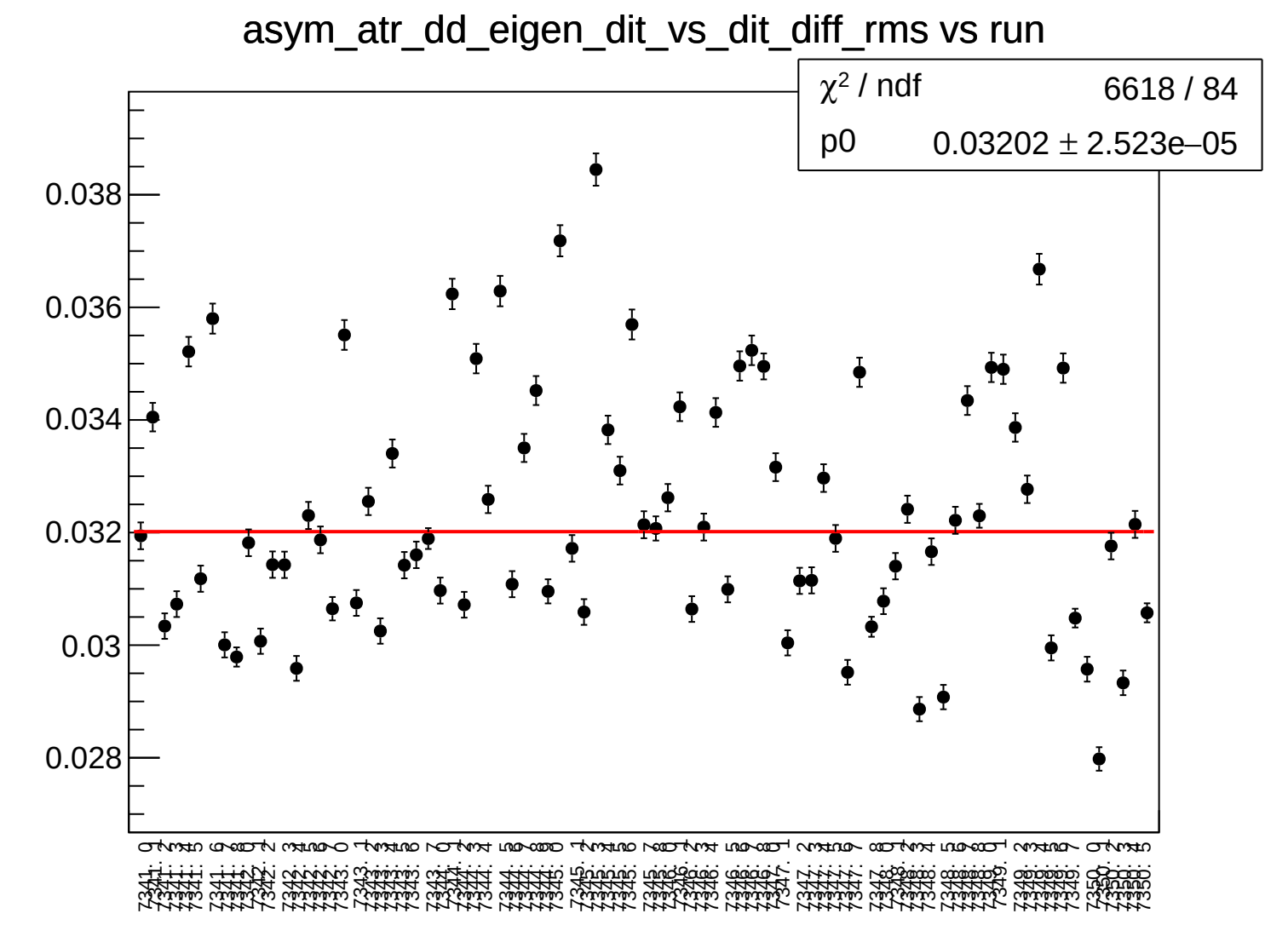

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.35 / 84
p0 −0.214 ± 0.3677
pull
Entries 85
Mean −23.01
Std Dev 0

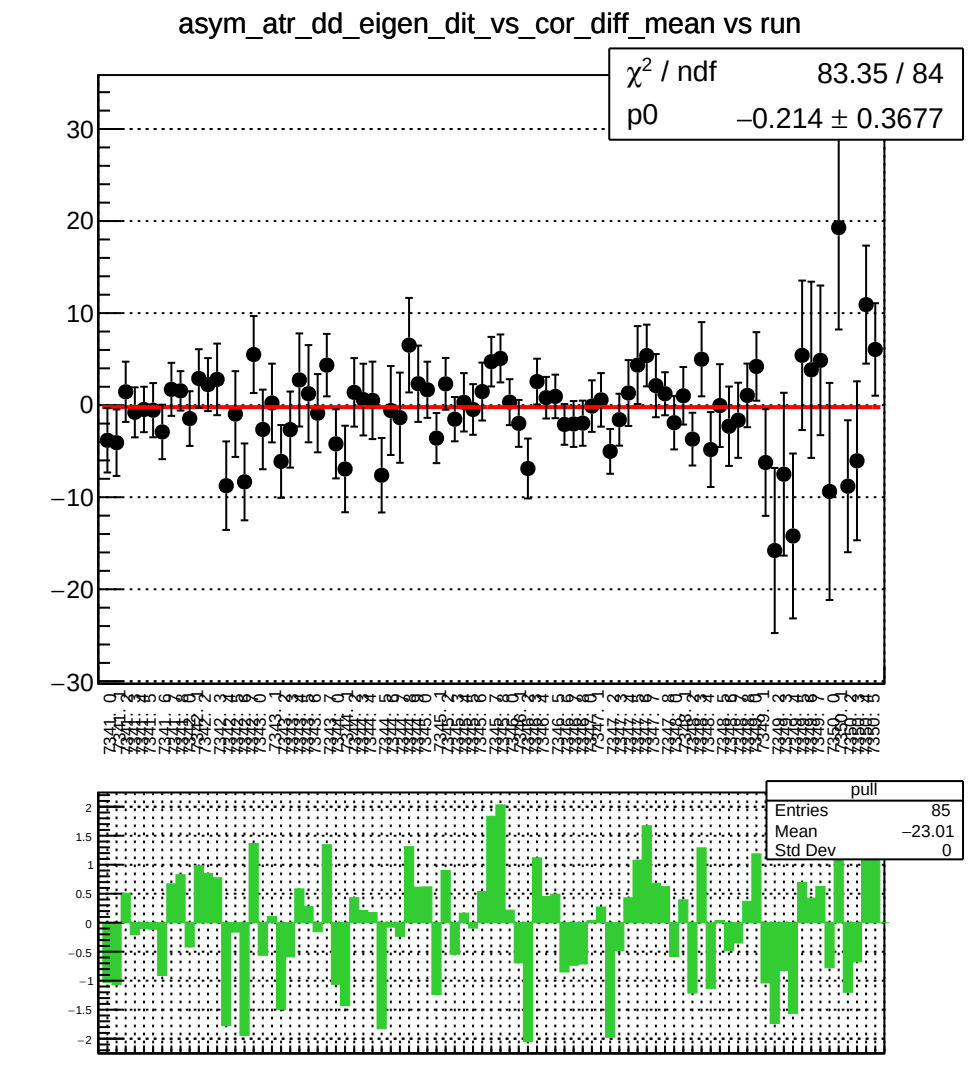

pull1D
Entries 85
Mean −0.02519
Std Dev 0.9899

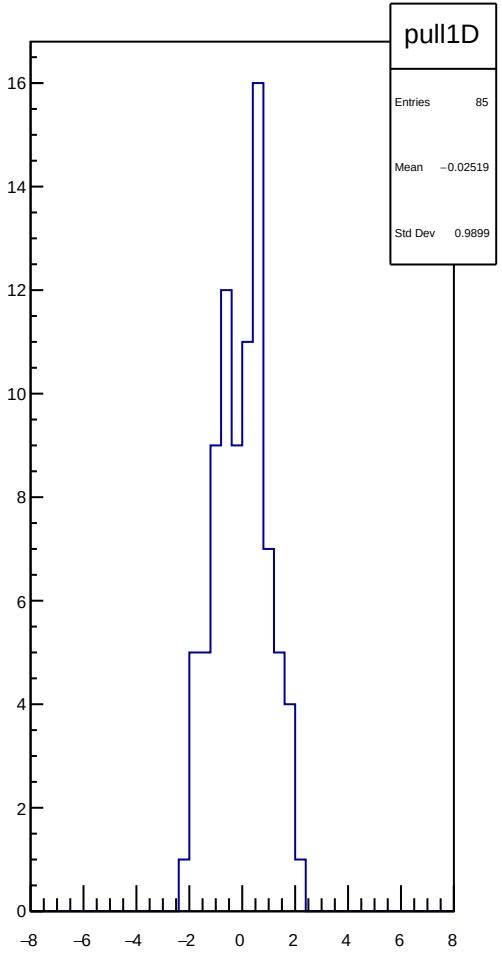

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 84
p0 312.9 ± 0.26
1200
1000
800
600
400
200

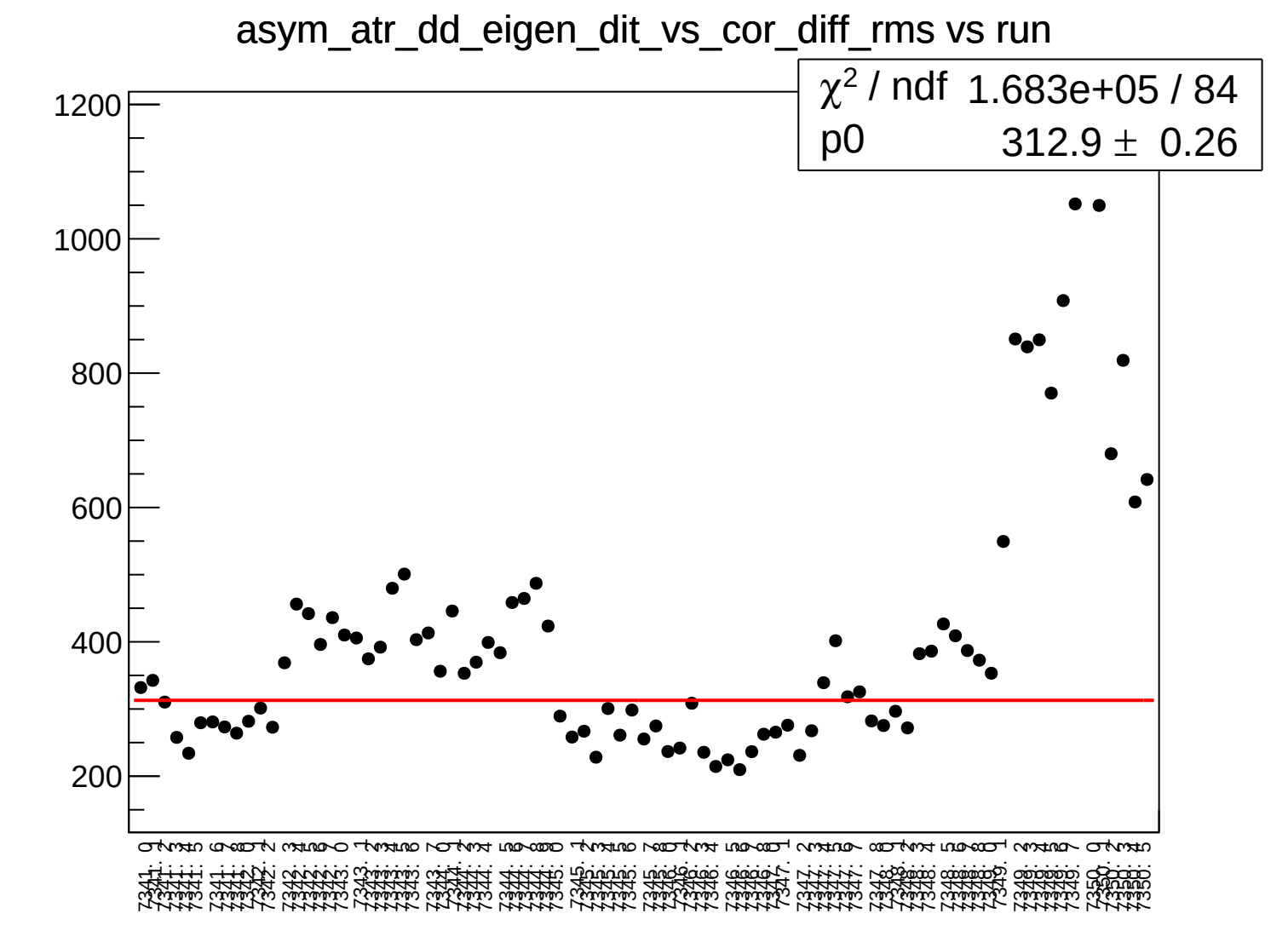

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.23 / 84
p0 1.868e−05 ± 3.569e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean −206.4
Std Dev 0

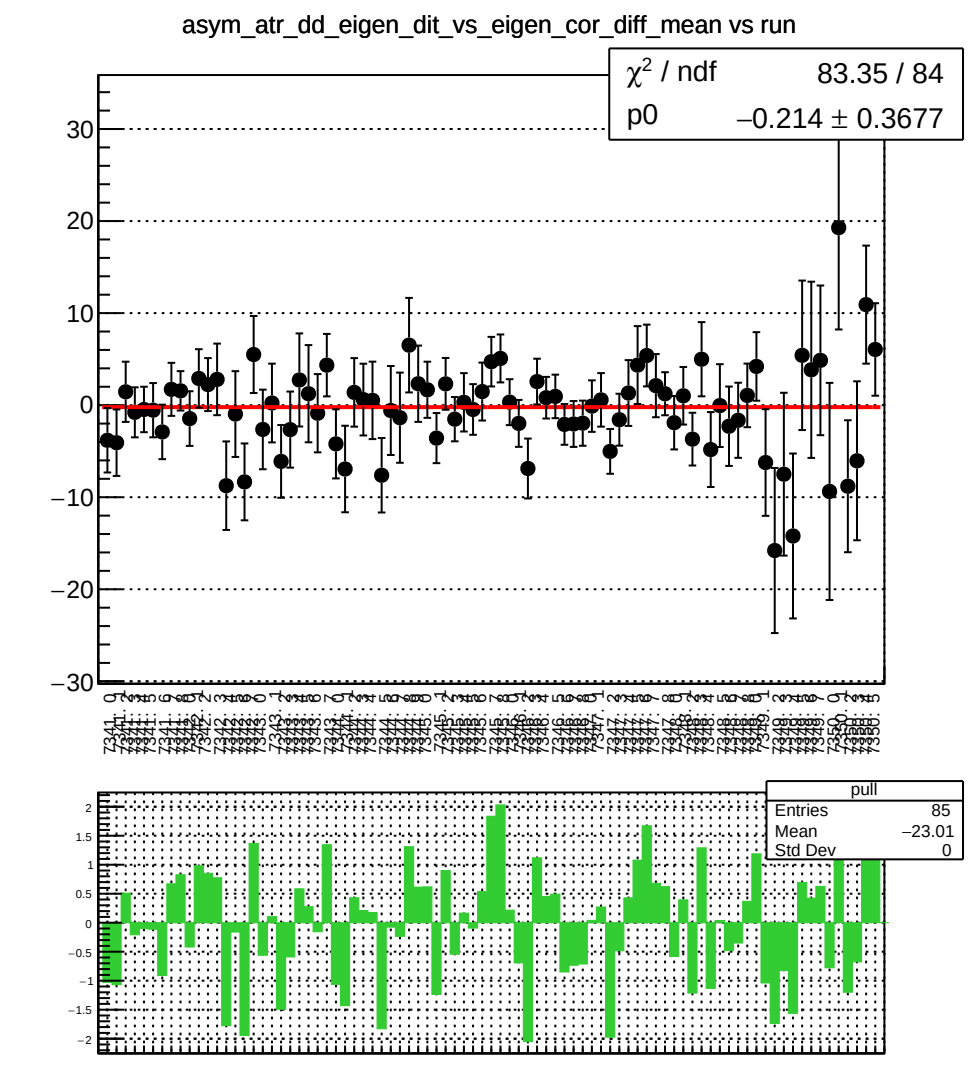

pull1D
Entries 85
Mean −0.01137
Std Dev 0.9407

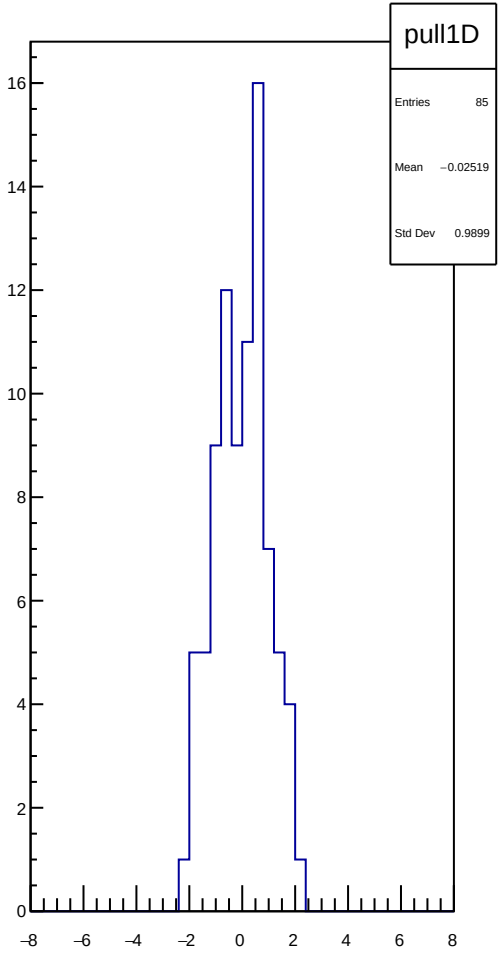

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6618 / 84
p0 0.03202 ± 2.523e−05
0.038
0.036
0.034
0.032
0.03
0.028

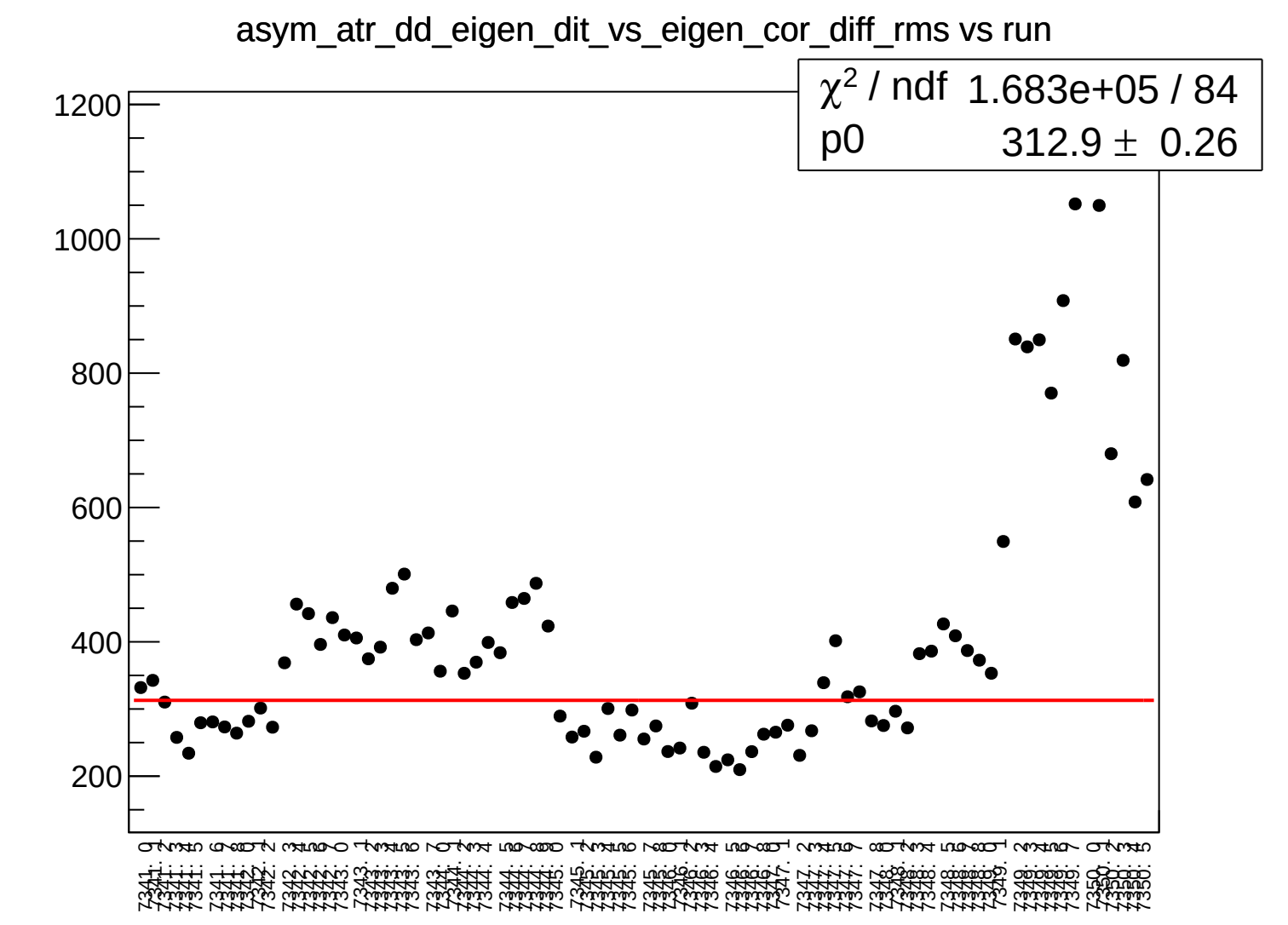

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.35 / 84
p0 −0.214 ± 0.3677
pull
Entries 85
Mean −23.01
Std Dev 0

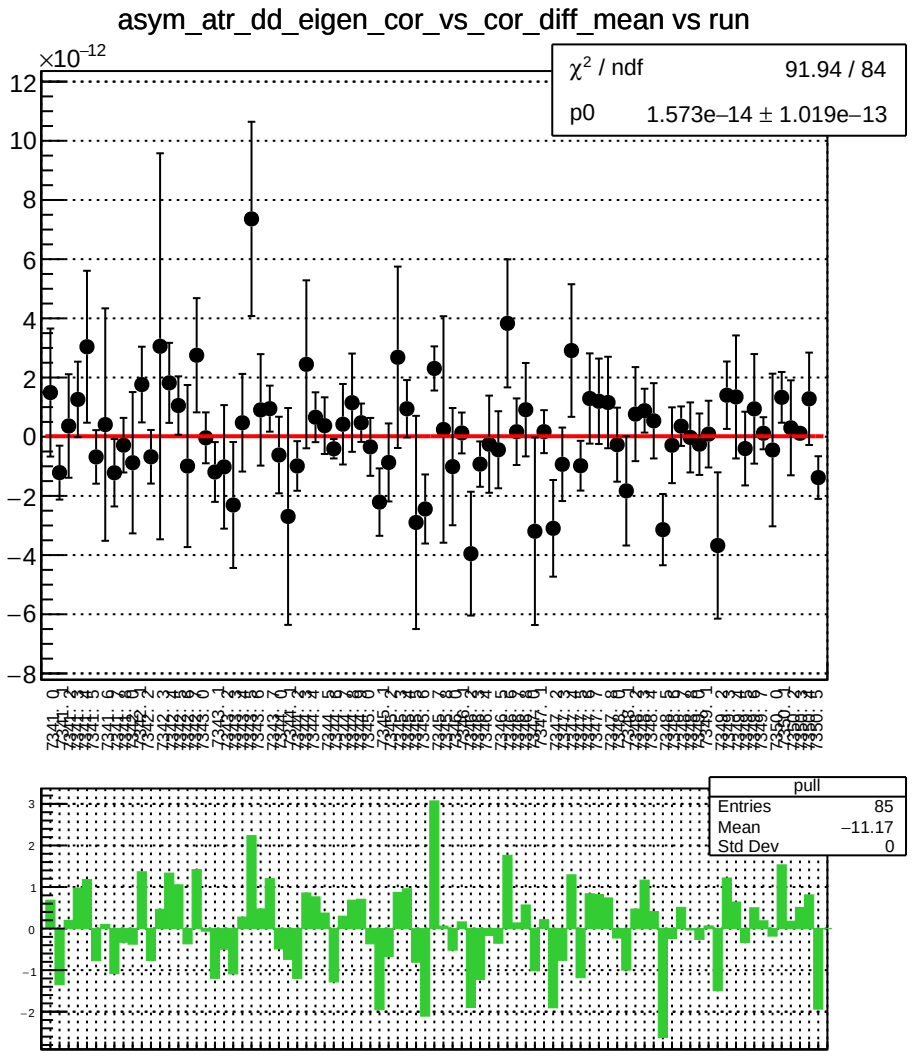

pull1D
Entries 85
Mean −0.02519
Std Dev 0.9899

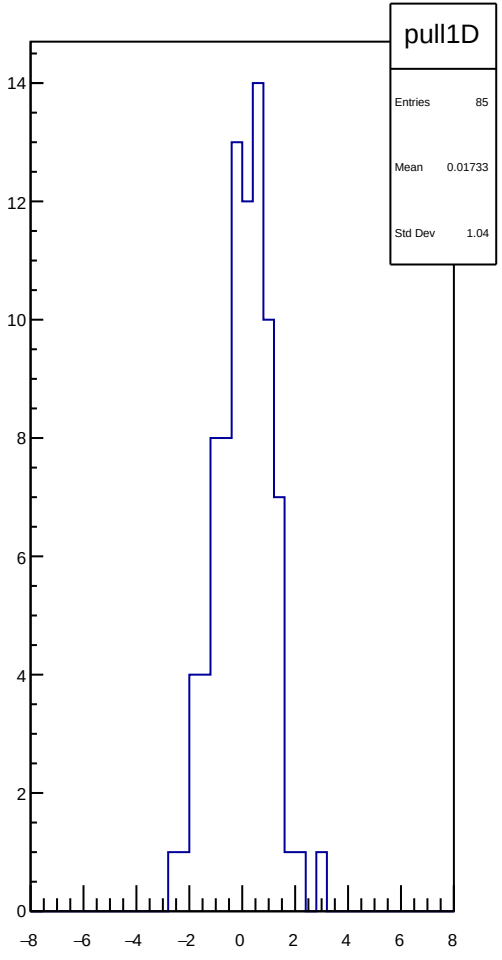

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 84
p0 312.9 ± 0.26
1200
1000
800
600
400
200

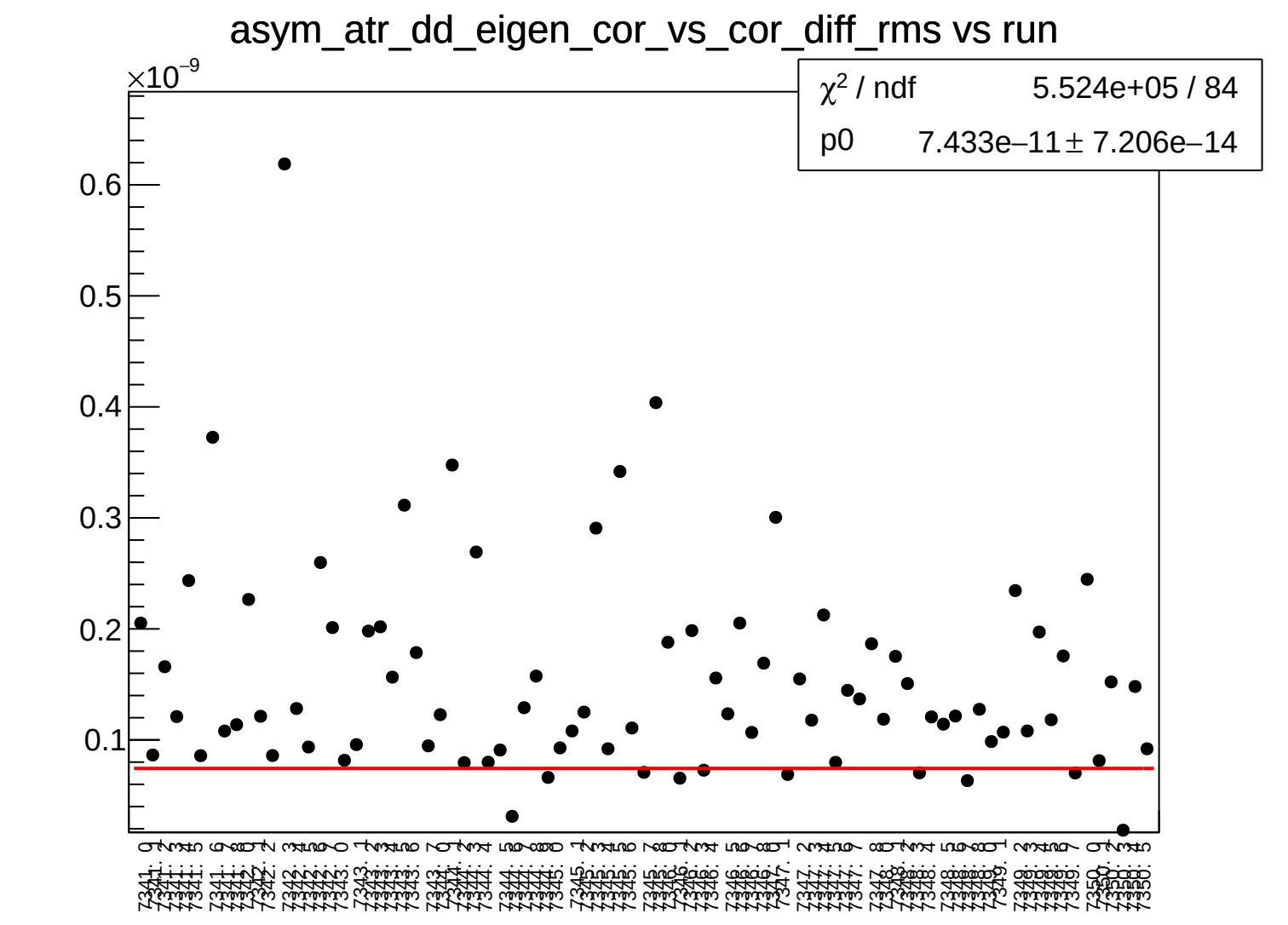

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.35 / 84
p0 −0.214 ± 0.3677
pull
Entries 85
Mean −23.01
Std Dev 0

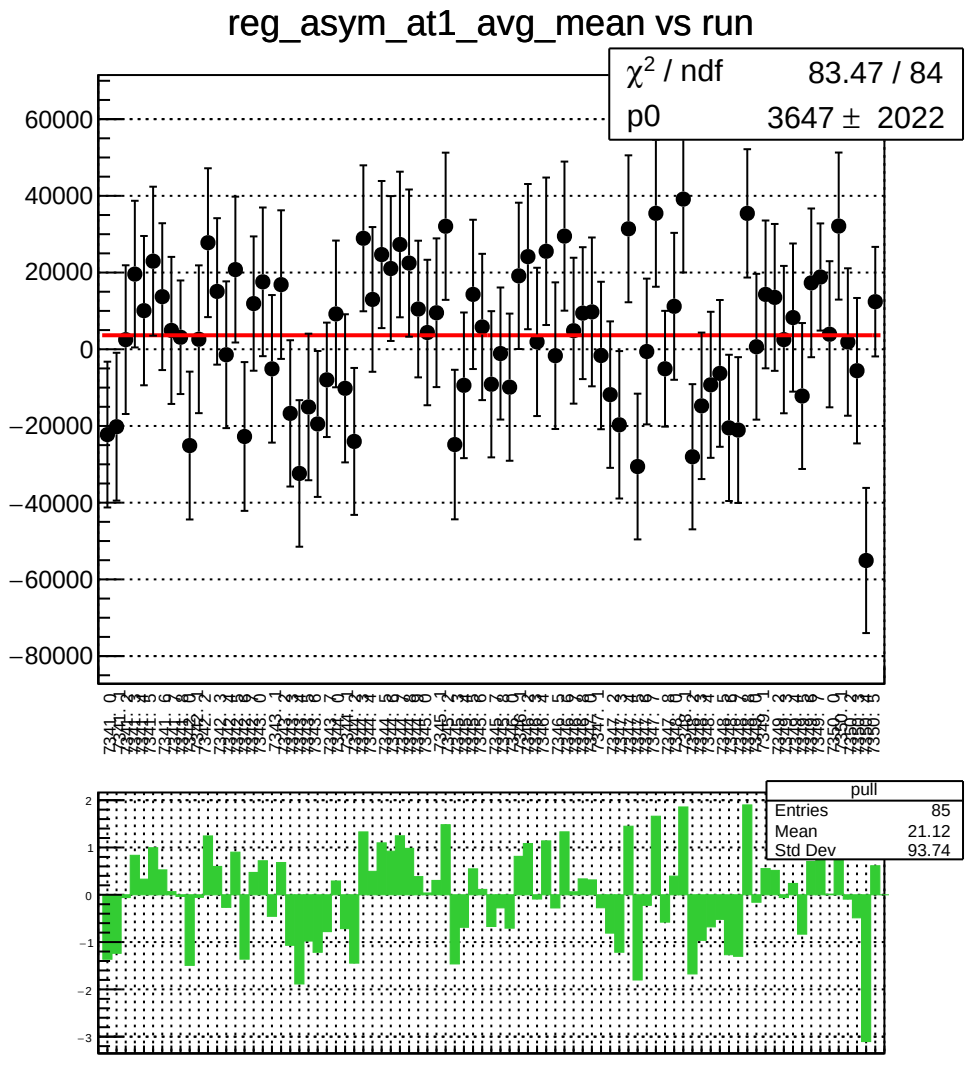

pull1D
Entries 85
Mean −0.02519
Std Dev 0.9899

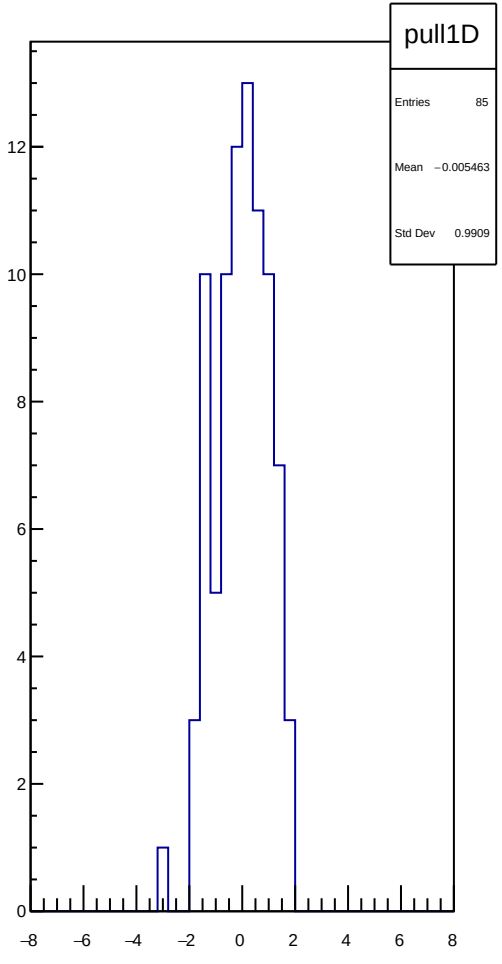

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 84
p0 312.9 ± 0.26
1200
1000
800
600
400
200

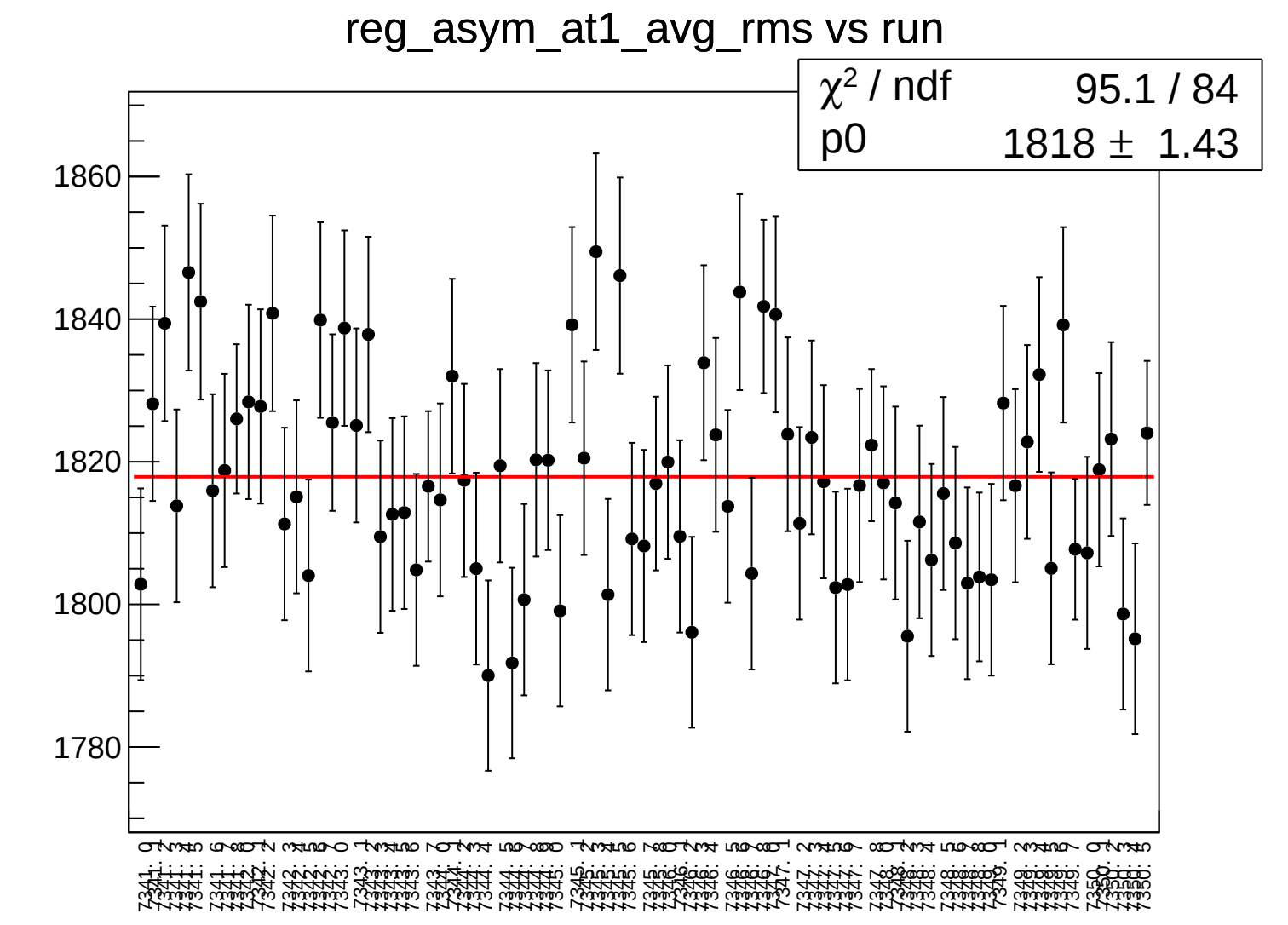

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.94 / 84
p0 1.573e−14 ± 1.019e−13
pull
Entries 85
Mean −11.17
Std Dev 0

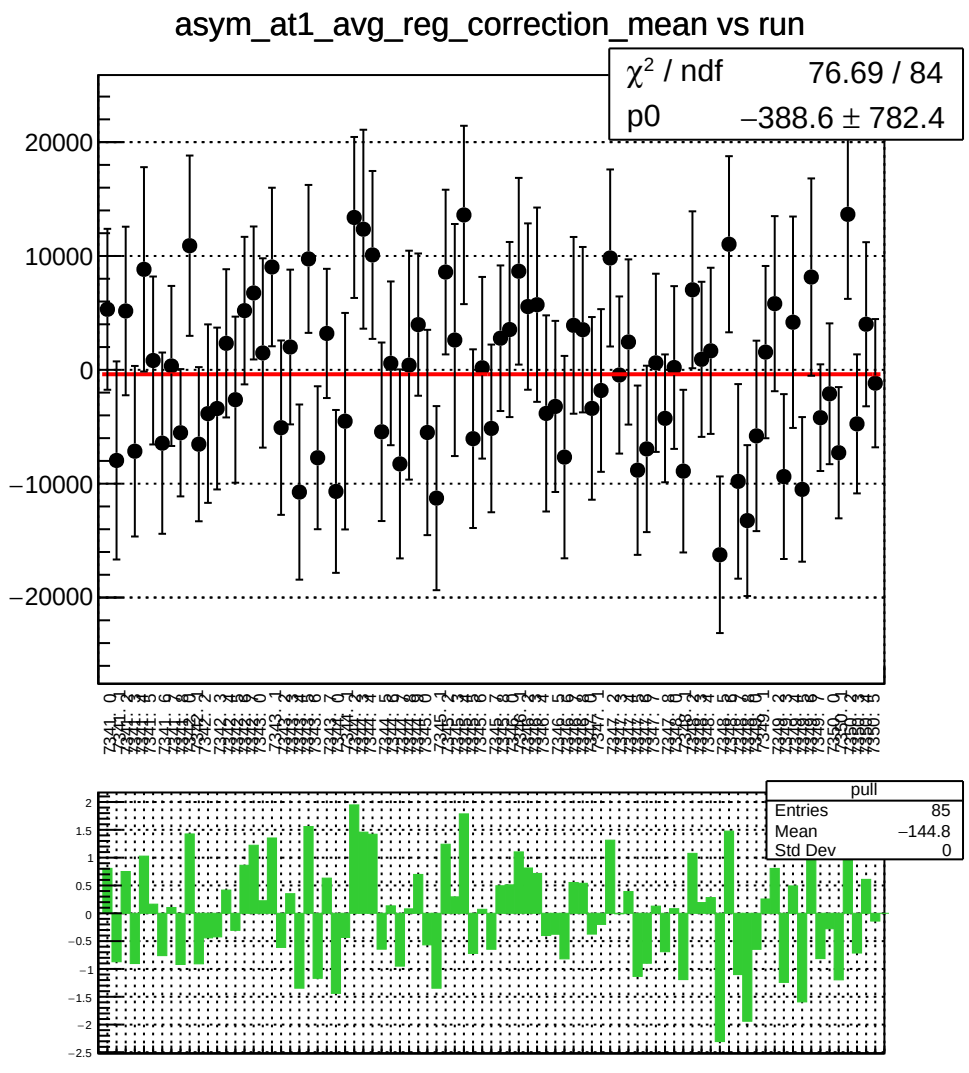

pull1D
Entries 85
Mean 0.01733
Std Dev 1.04

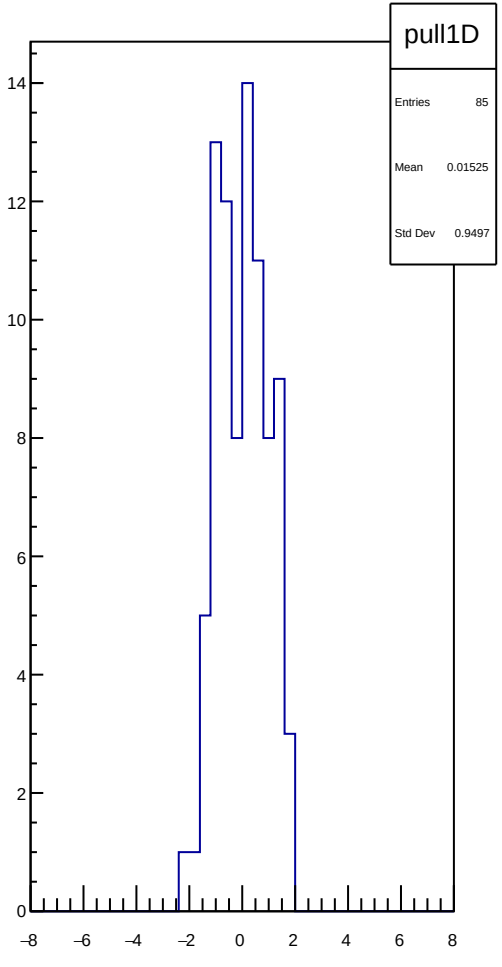

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.524e+05 / 84
p0 7.433e−11 ± 7.206e−14
0.6
0.5
0.4
0.3
0.2
0.1

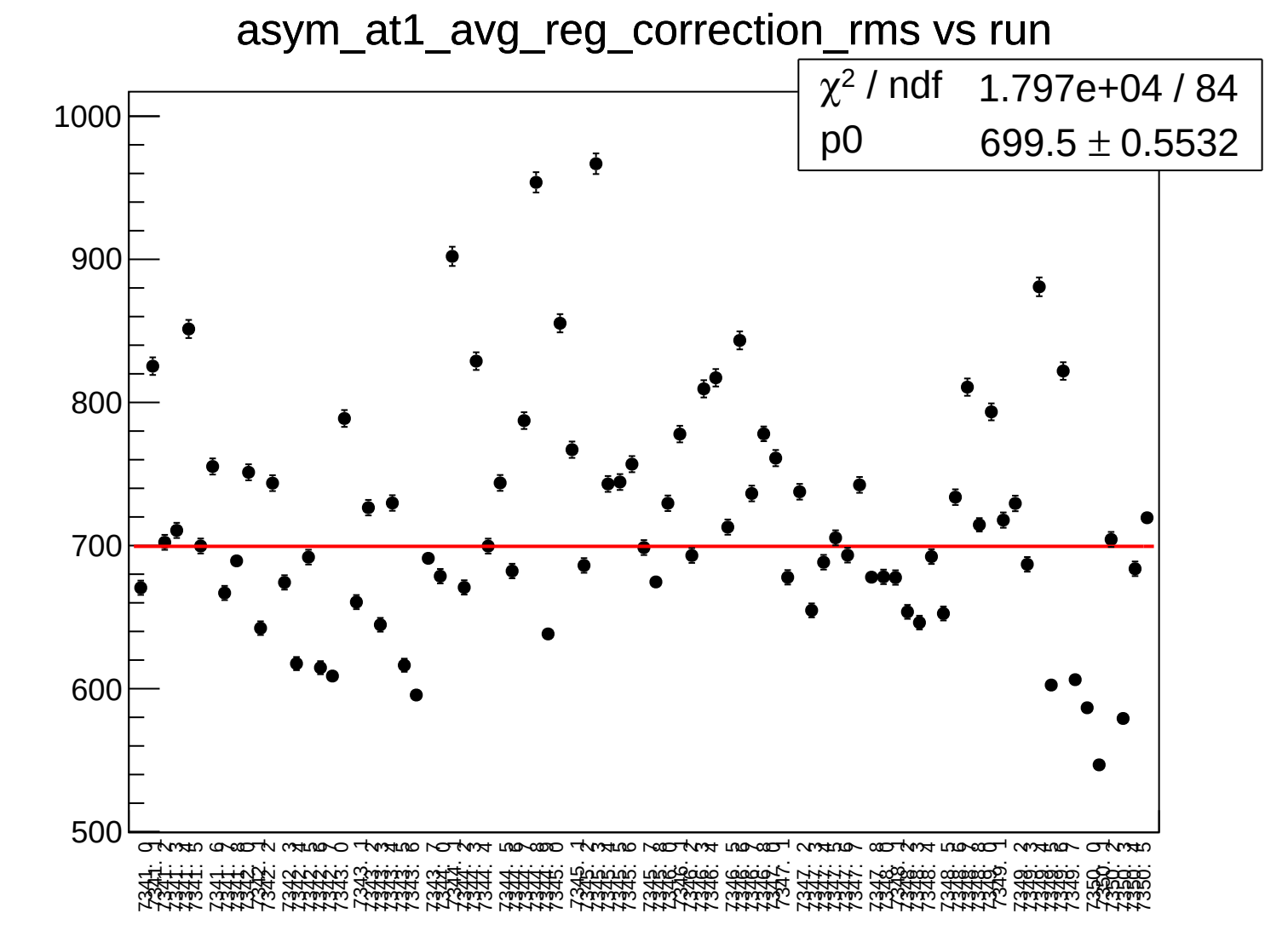

reg_asym_at1_avg_mean vs run
χ² / ndf 83.47 / 84
p0 3647 ± 2022
pull
Entries 85
Mean 21.12
Std Dev 93.74

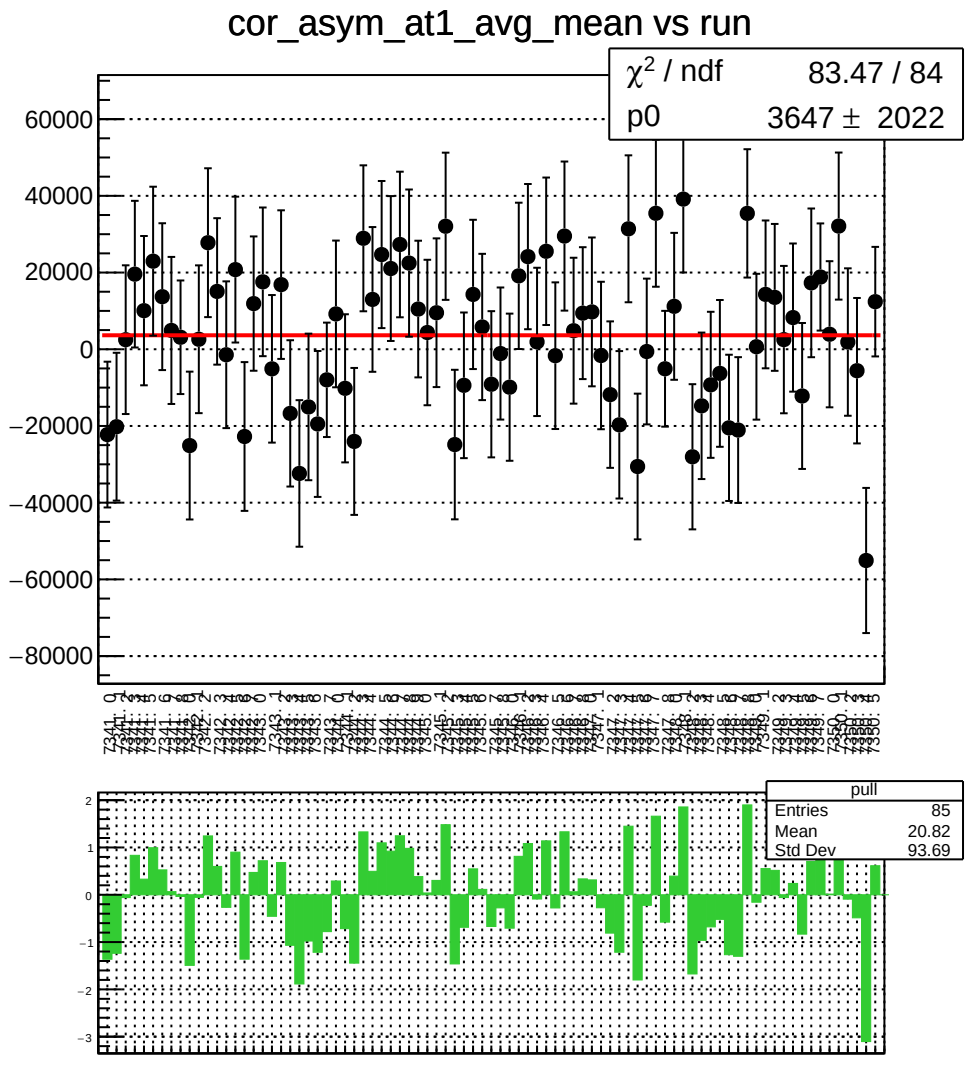

pull1D
Entries 85
Mean −0.005463
Std Dev 0.9909

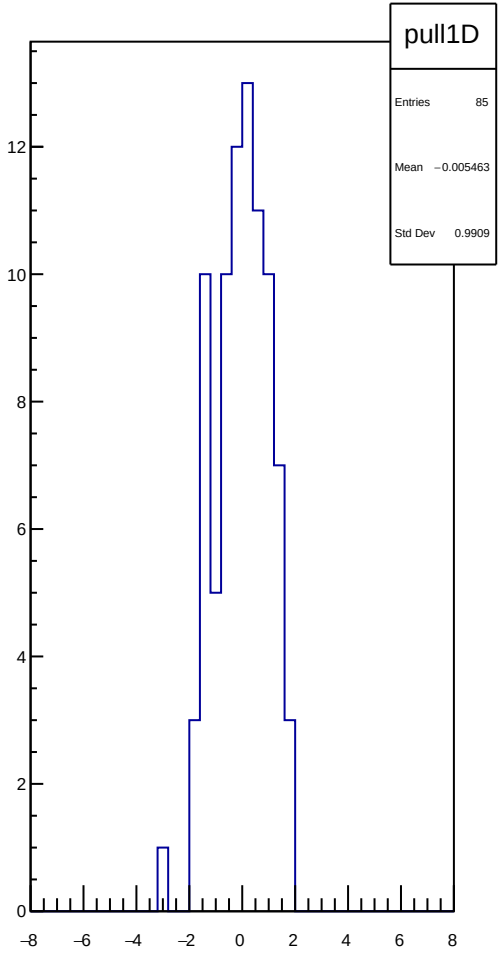

reg_asym_at1_avg_rms vs run
χ² / ndf 95.1 / 84
p0 1818 ± 1.43
1860
1840
1820
1800
1780

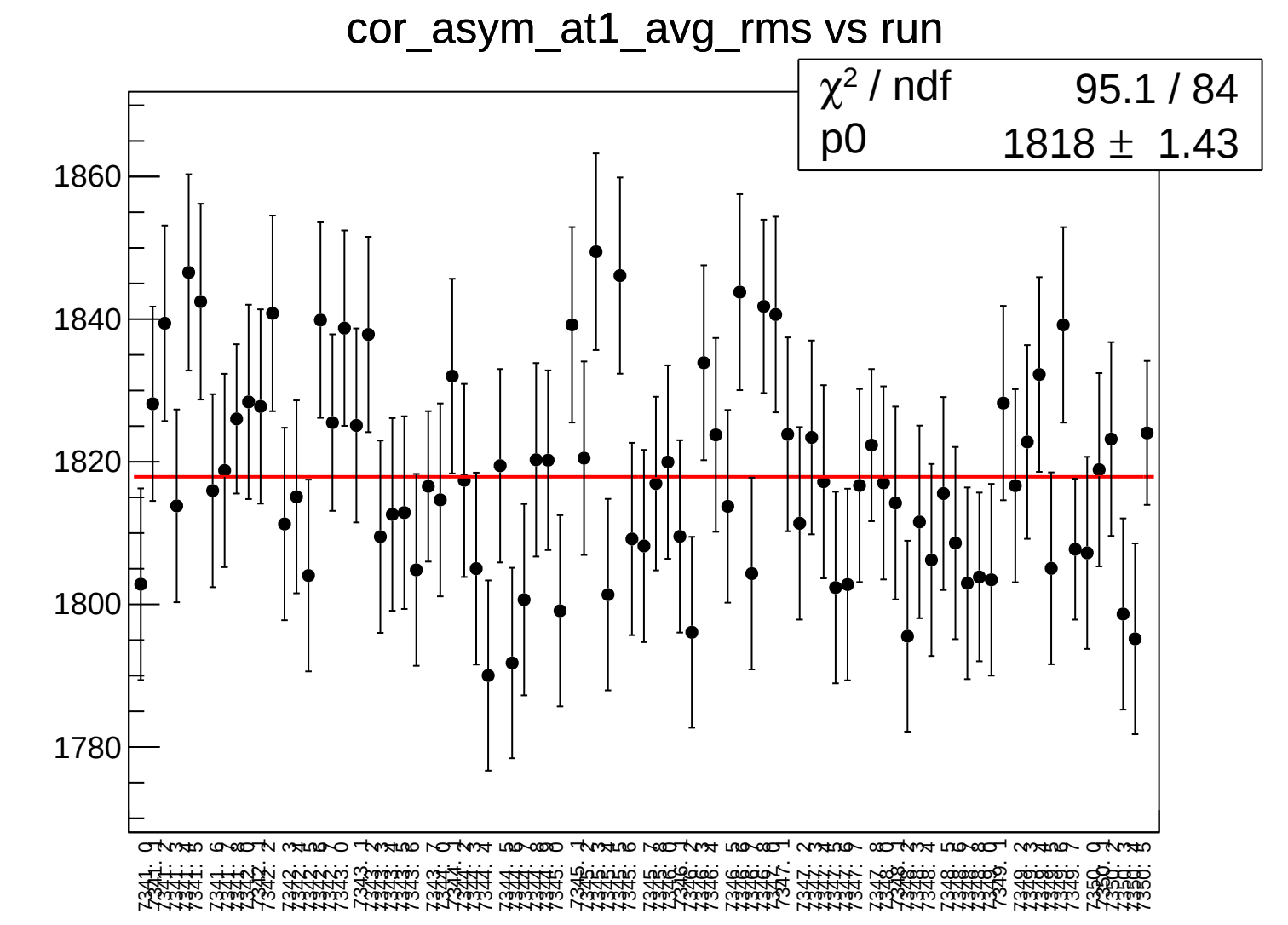

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 76.69 / 84
p0 −388.6 ± 782.4
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −144.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

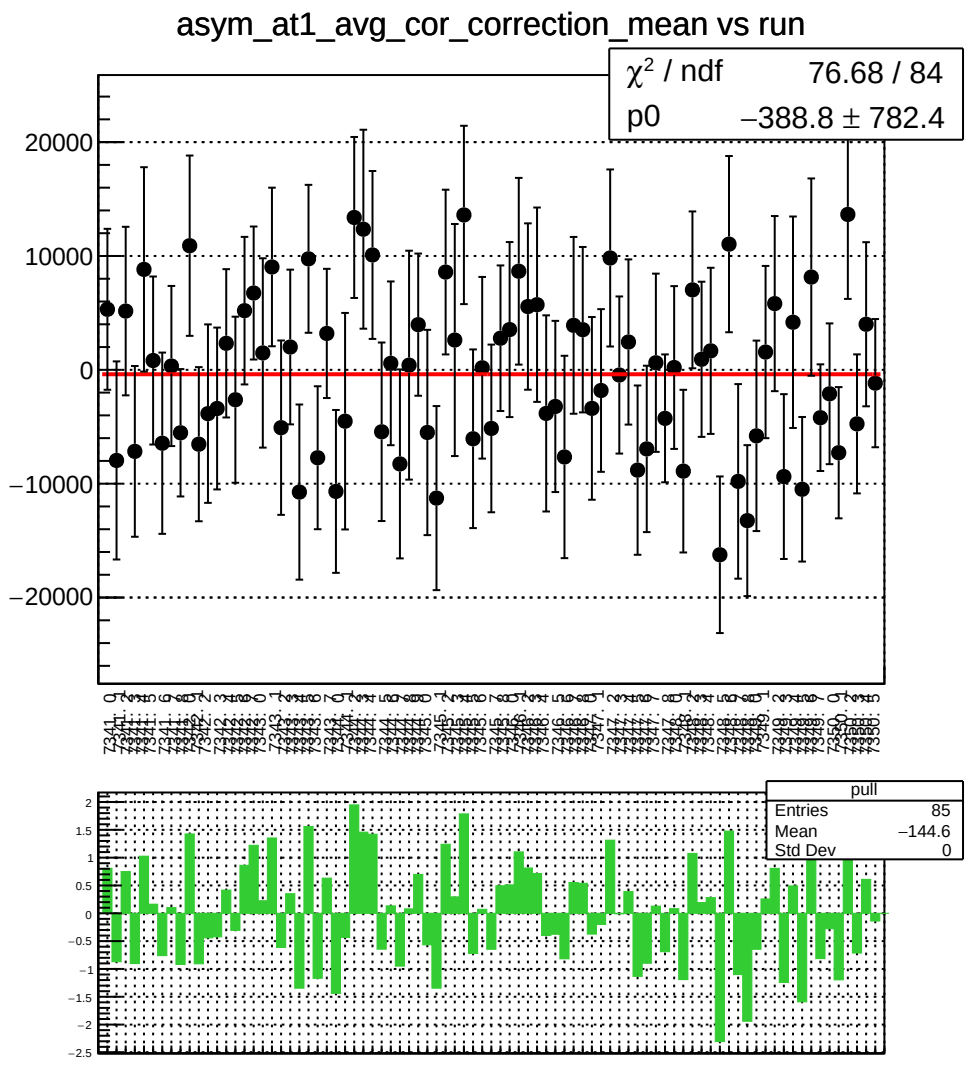

pull1D
Entries 85
Mean 0.01525
Std Dev 0.9497
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

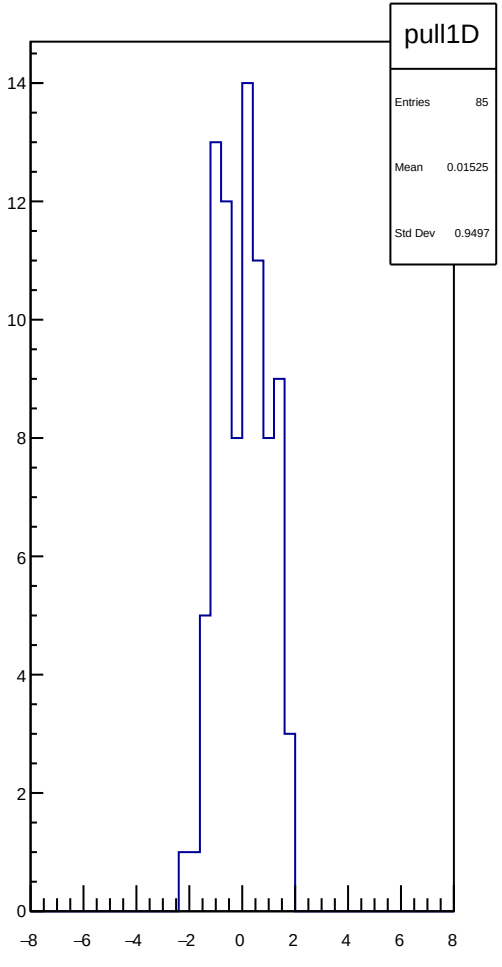

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.797e+04 / 84
p0 699.5 ± 0.5532
1000
900
800
700
600
500

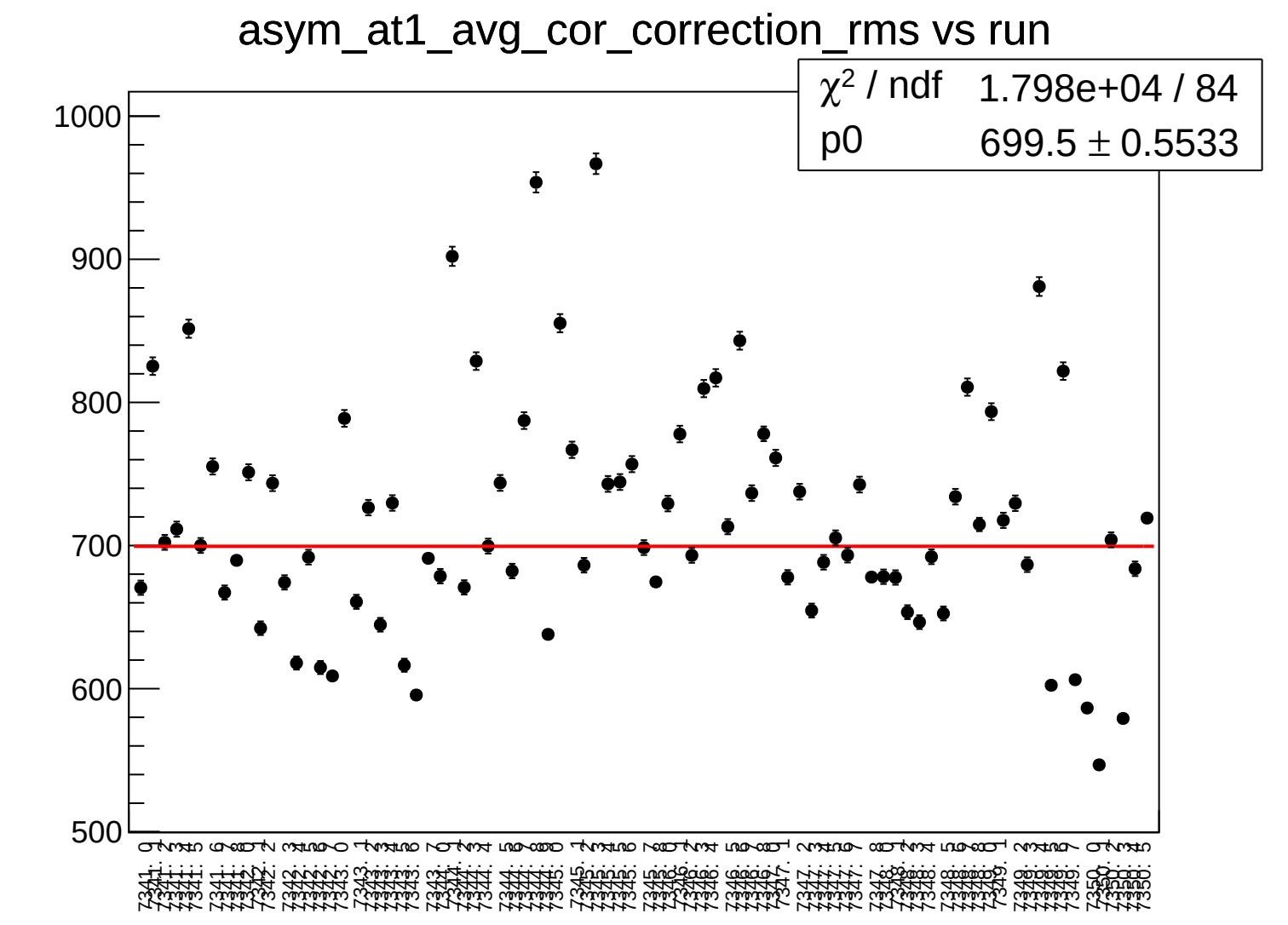

cor_asym_at1_avg_mean vs run
χ² / ndf 83.47 / 84
p0 3647 ± 2022
pull
Entries 85
Mean 20.82
Std Dev 93.69

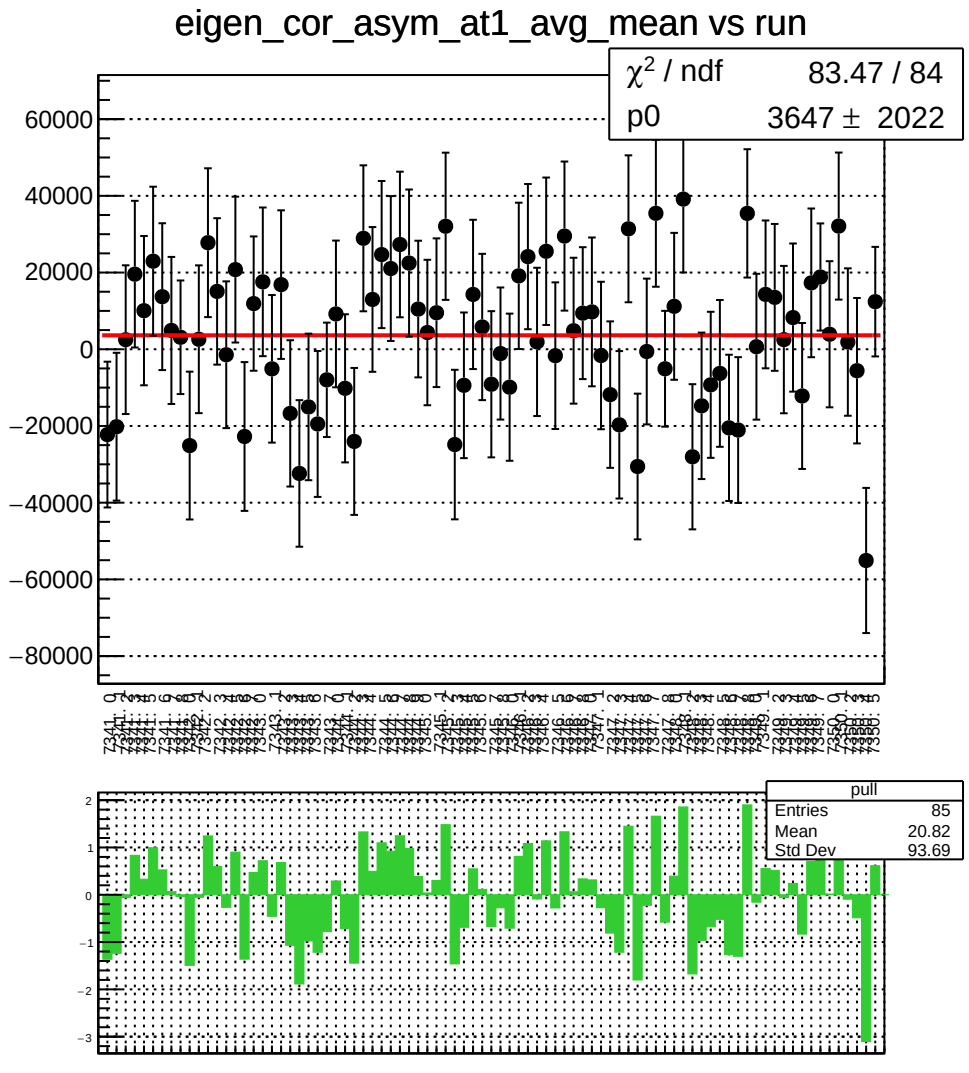

pull1D
Entries 85
Mean −0.005463
Std Dev 0.9909

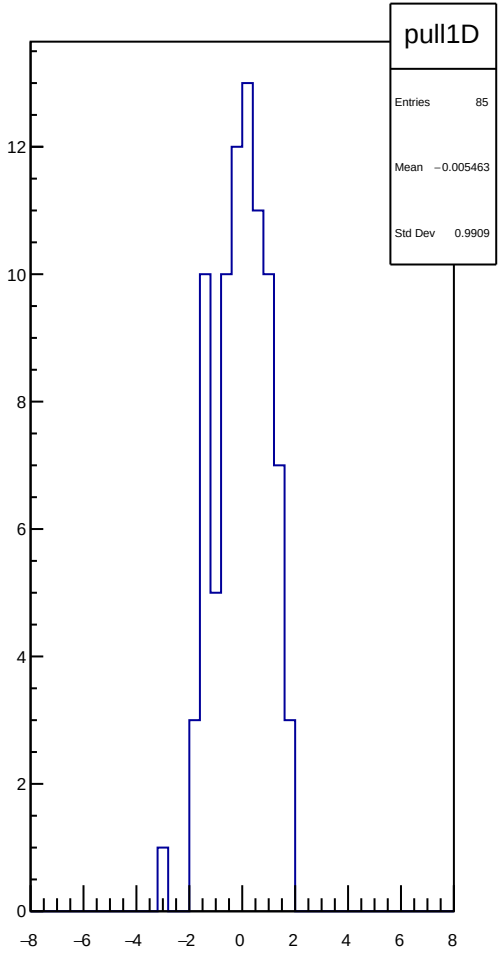

cor_asym_at1_avg_rms vs run
χ² / ndf 95.1 / 84
p0 1818 ± 1.43
1860
1840
1820
1800
1780

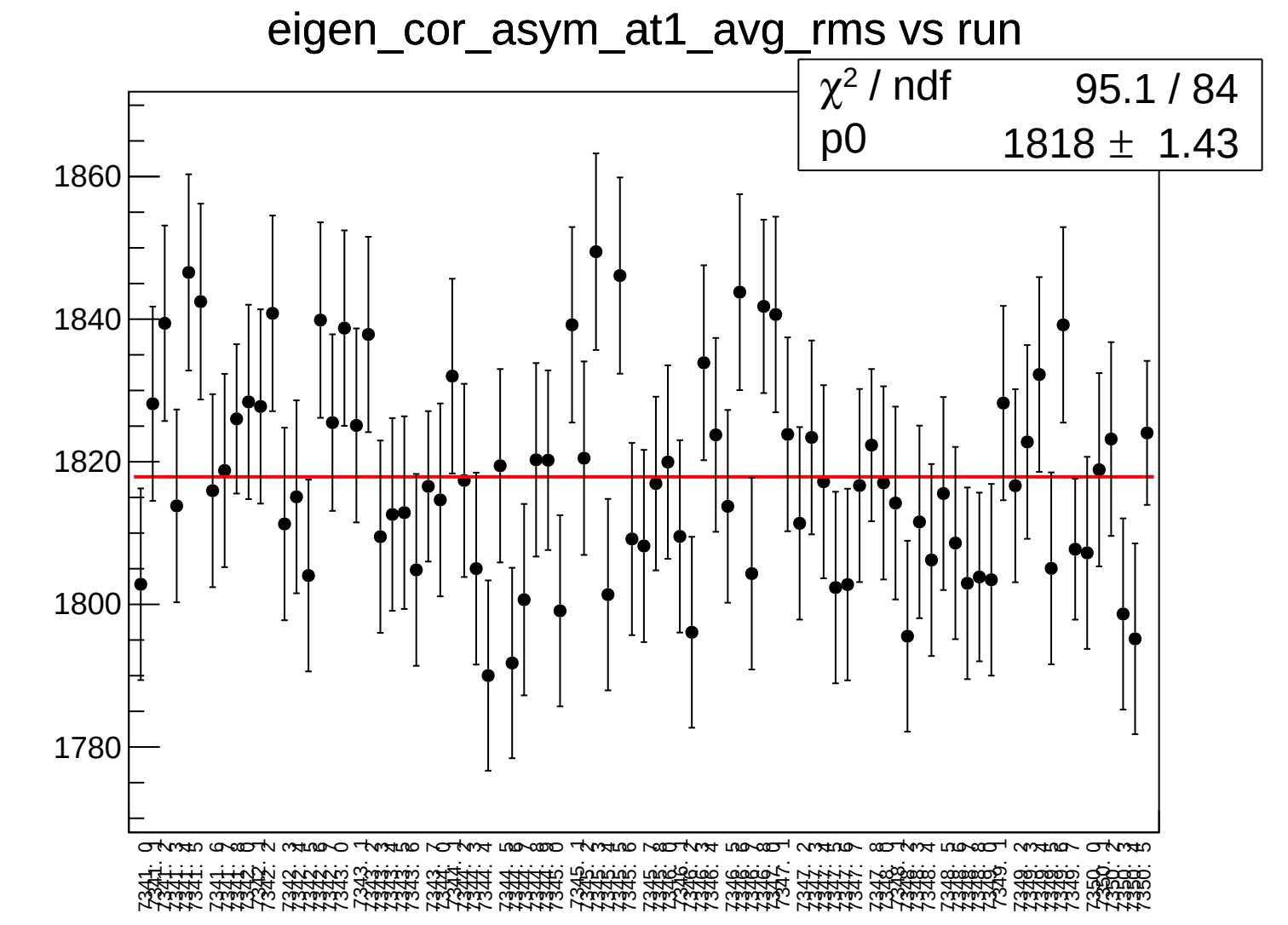

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 76.68 / 84
p0 −388.8 ± 782.4
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −144.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

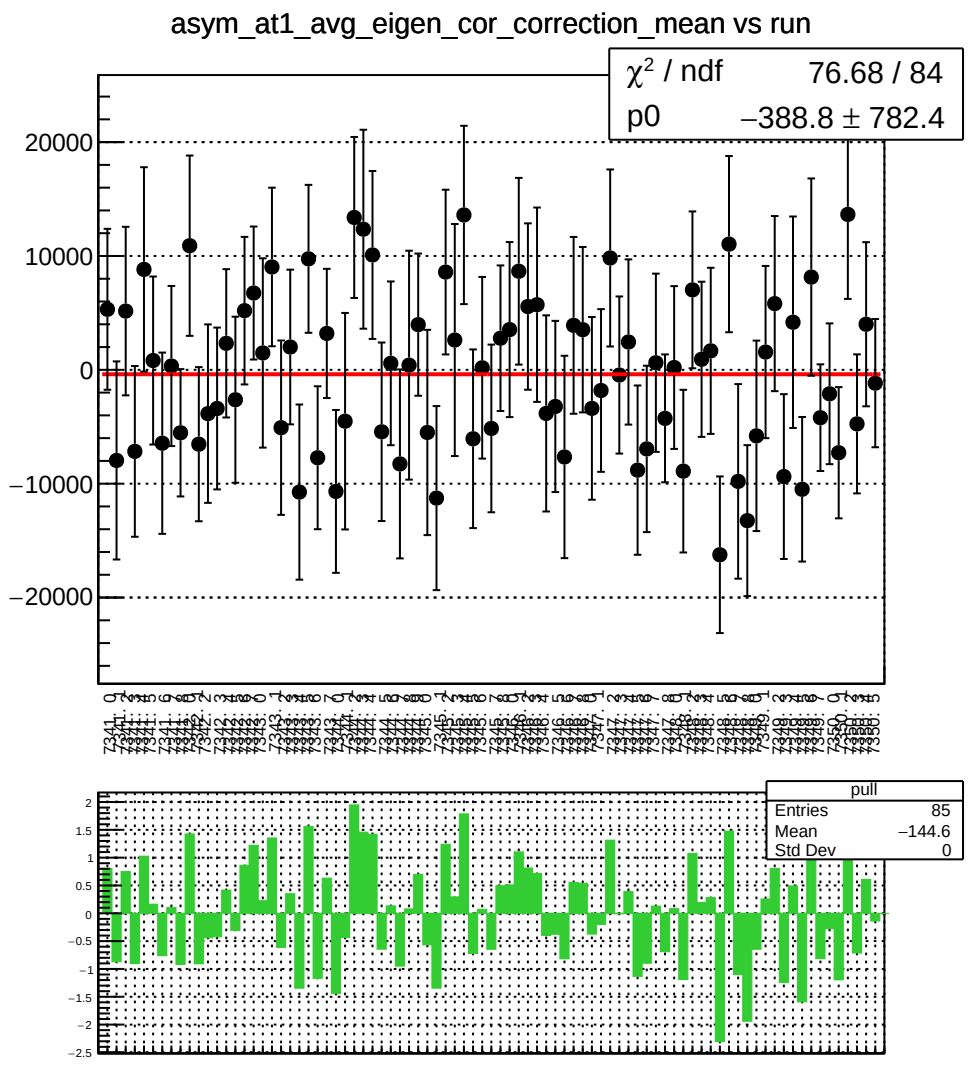

pull1D
Entries 85
Mean 0.01525
Std Dev 0.9497
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

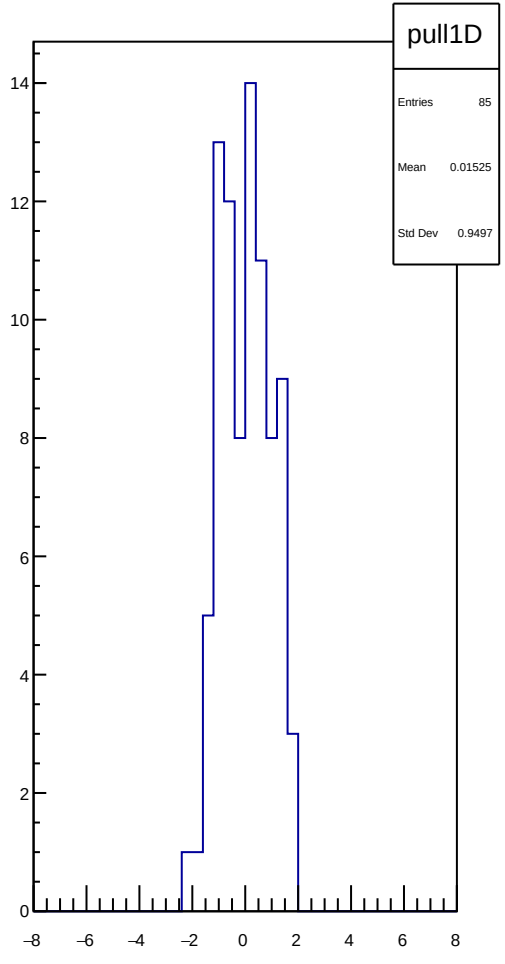

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.798e+04 / 84
p0 699.5 ± 0.5533
1000
900
800
700
600
500

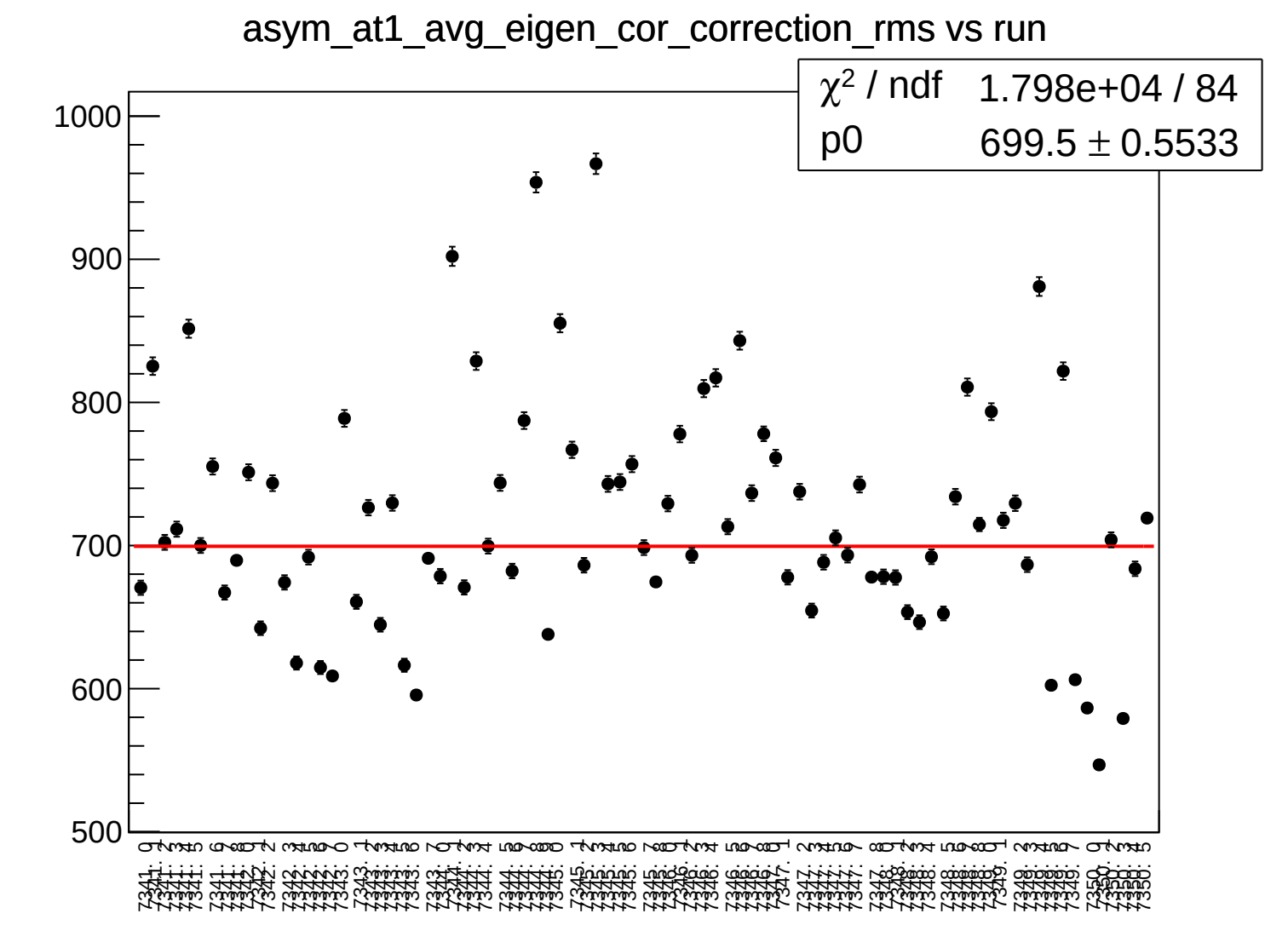

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 83.47 / 84
p0 3647 ± 2022
pull
Entries 85
Mean 20.82
Std Dev 93.69

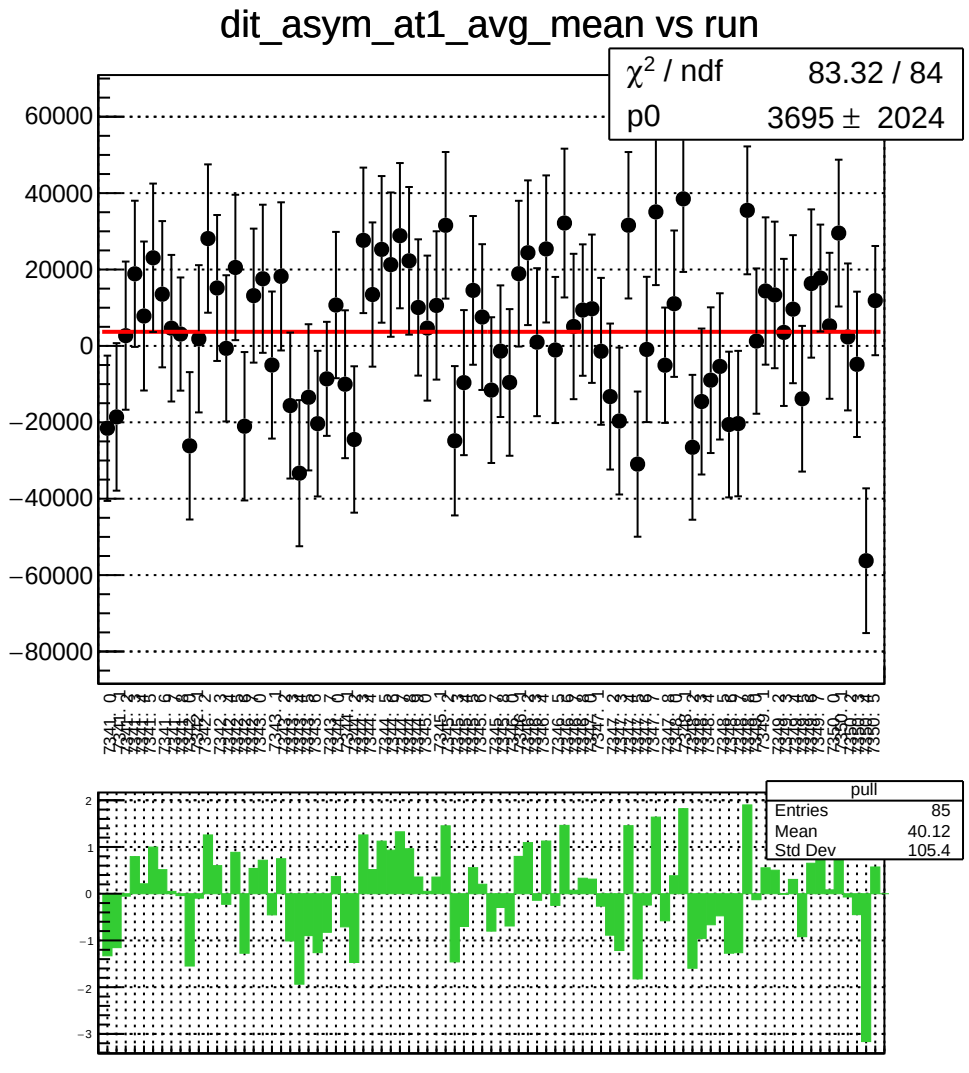

pull1D
Entries 85
Mean −0.005463
Std Dev 0.9909

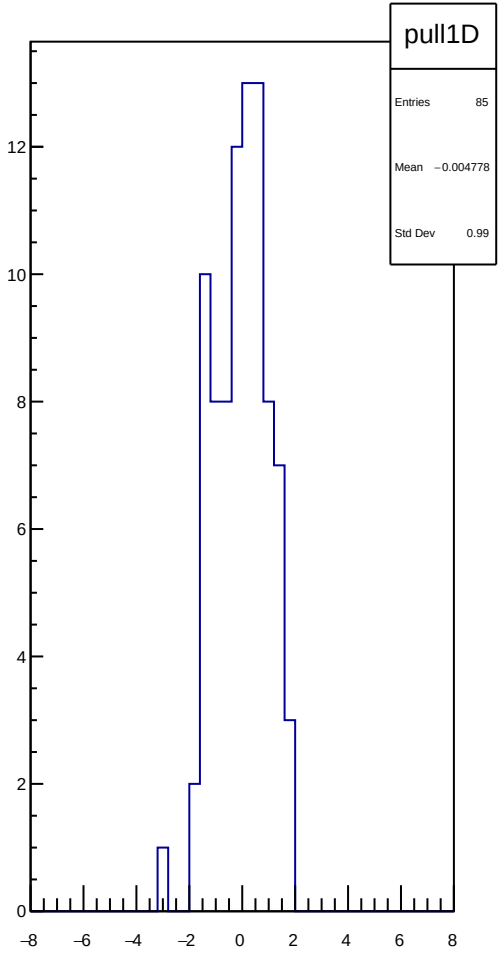

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 95.1 / 84
p0 1818 ± 1.43
1860
1840
1820
1800
1780

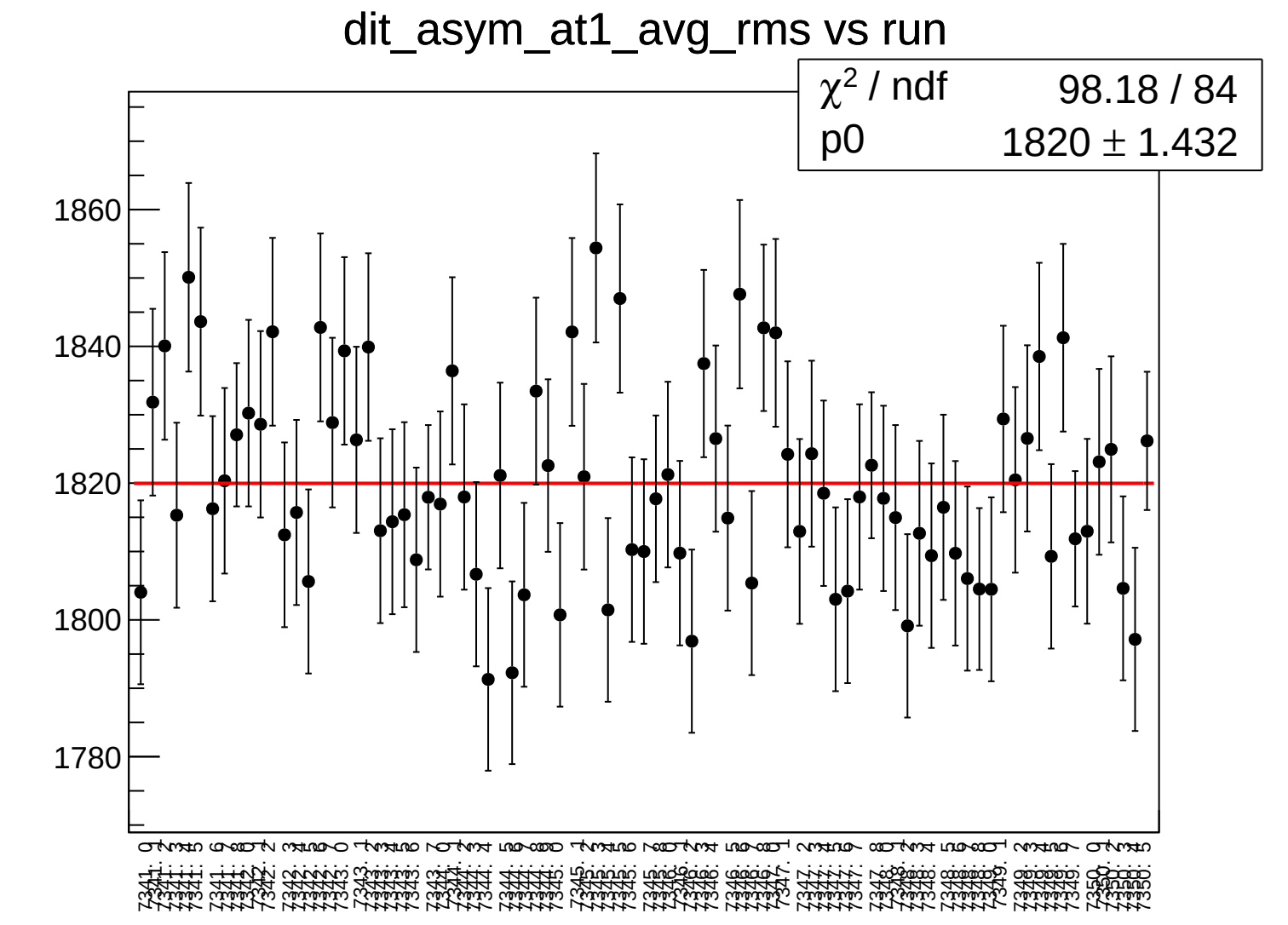

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.68 / 84
p0 −388.8 ± 782.4
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −144.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

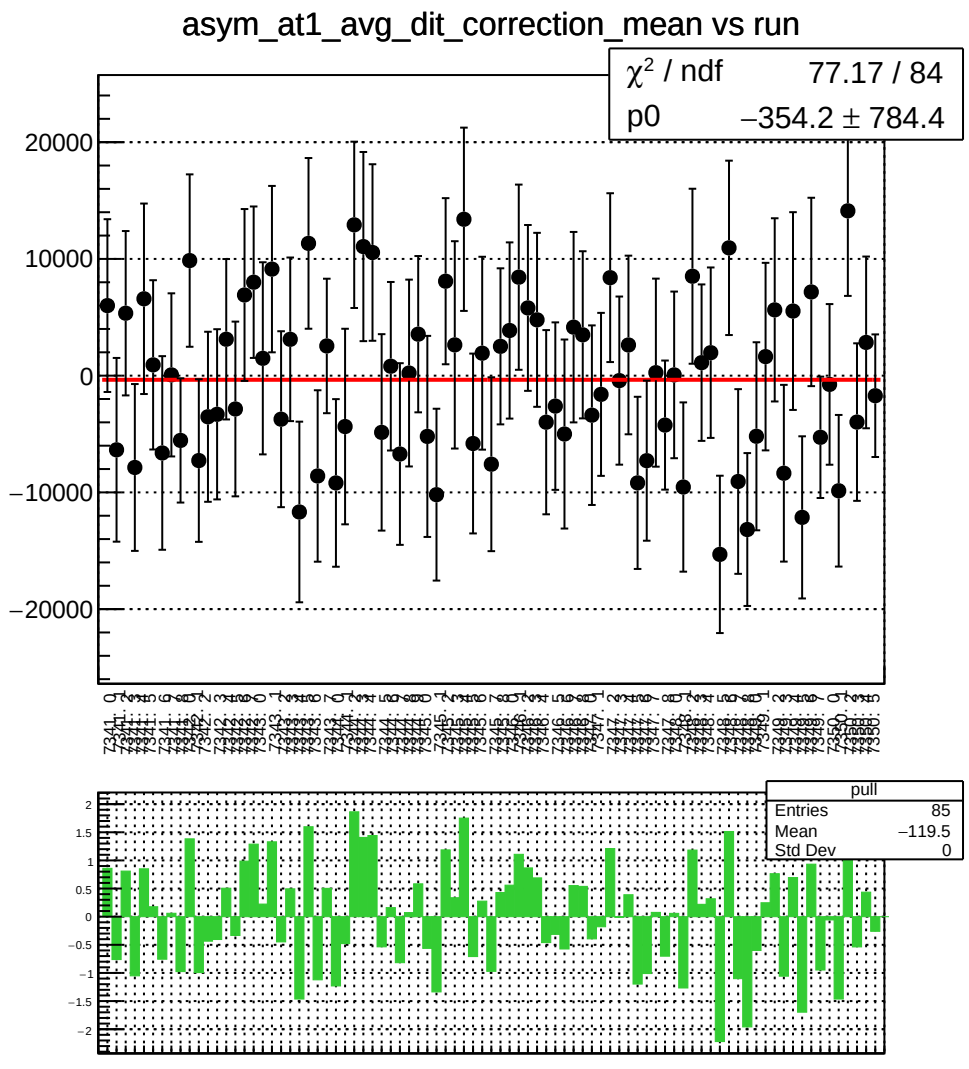

pull1D
Entries 85
Mean 0.01525
Std Dev 0.9497
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

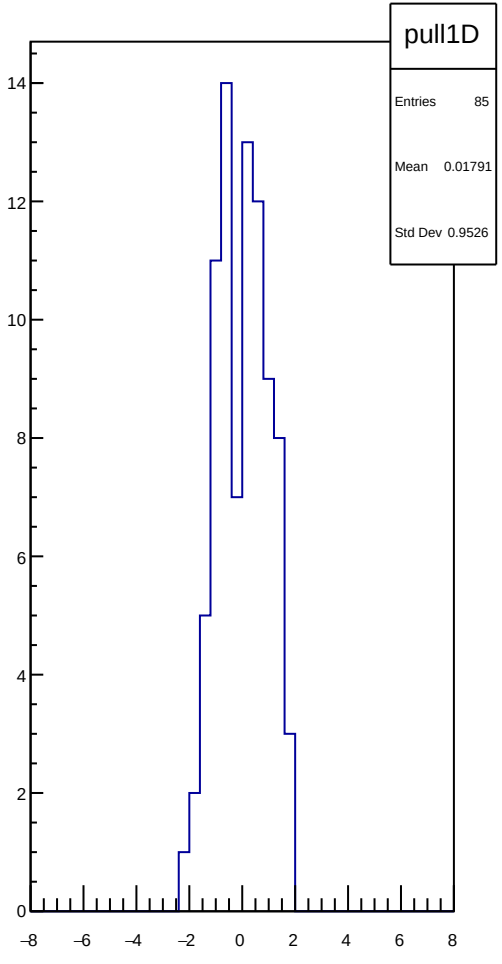

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.798e+04 / 84
p0 699.5 ± 0.5533
1000
900
800
700
600
500

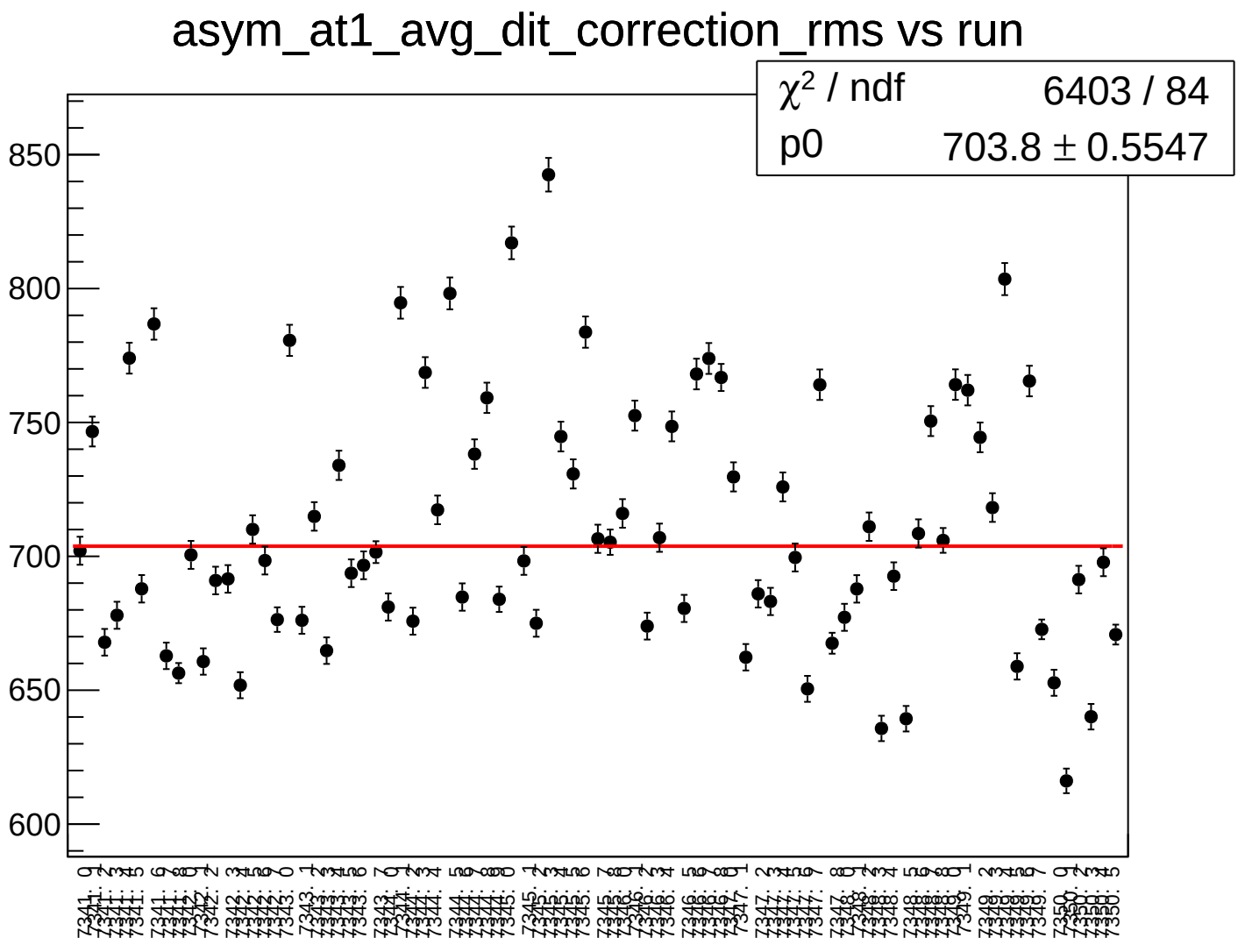

dit_asym_at1_avg_mean vs run
χ² / ndf 83.32 / 84
p0 3695 ± 2024
pull
Entries 85
Mean 40.12
Std Dev 105.4

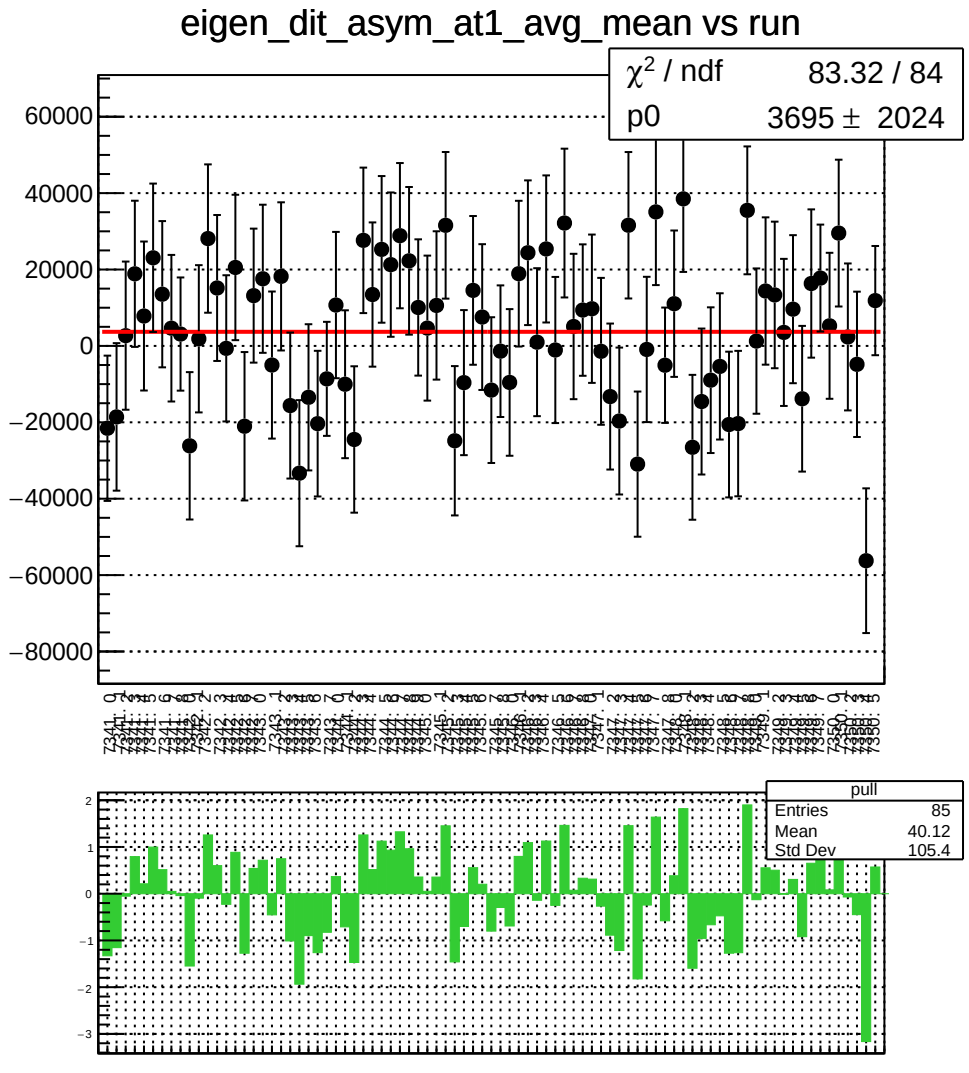

pull1D
Entries 85
Mean −0.004778
Std Dev 0.99

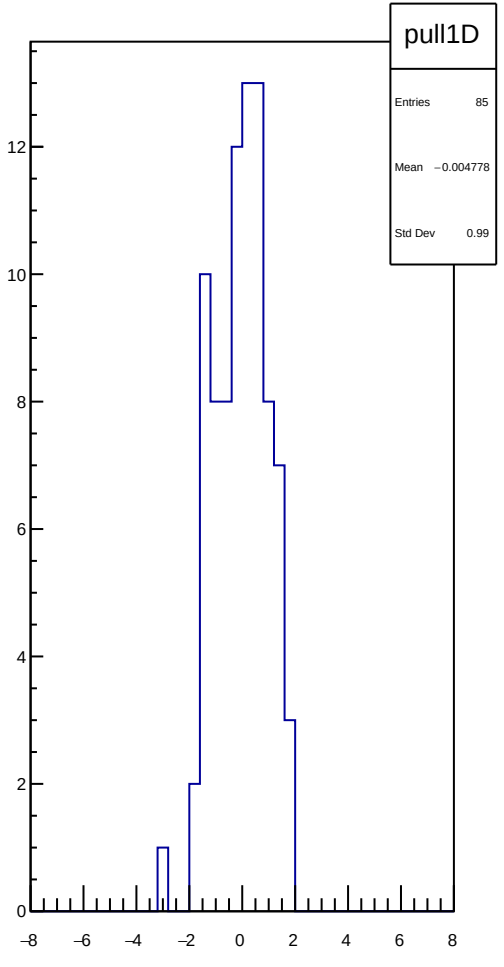

dit_asym_at1_avg_rms vs run
χ^2 / ndf 98.18 / 84
p0 1820 ± 1.432
1860
1840
1820
1800
1780

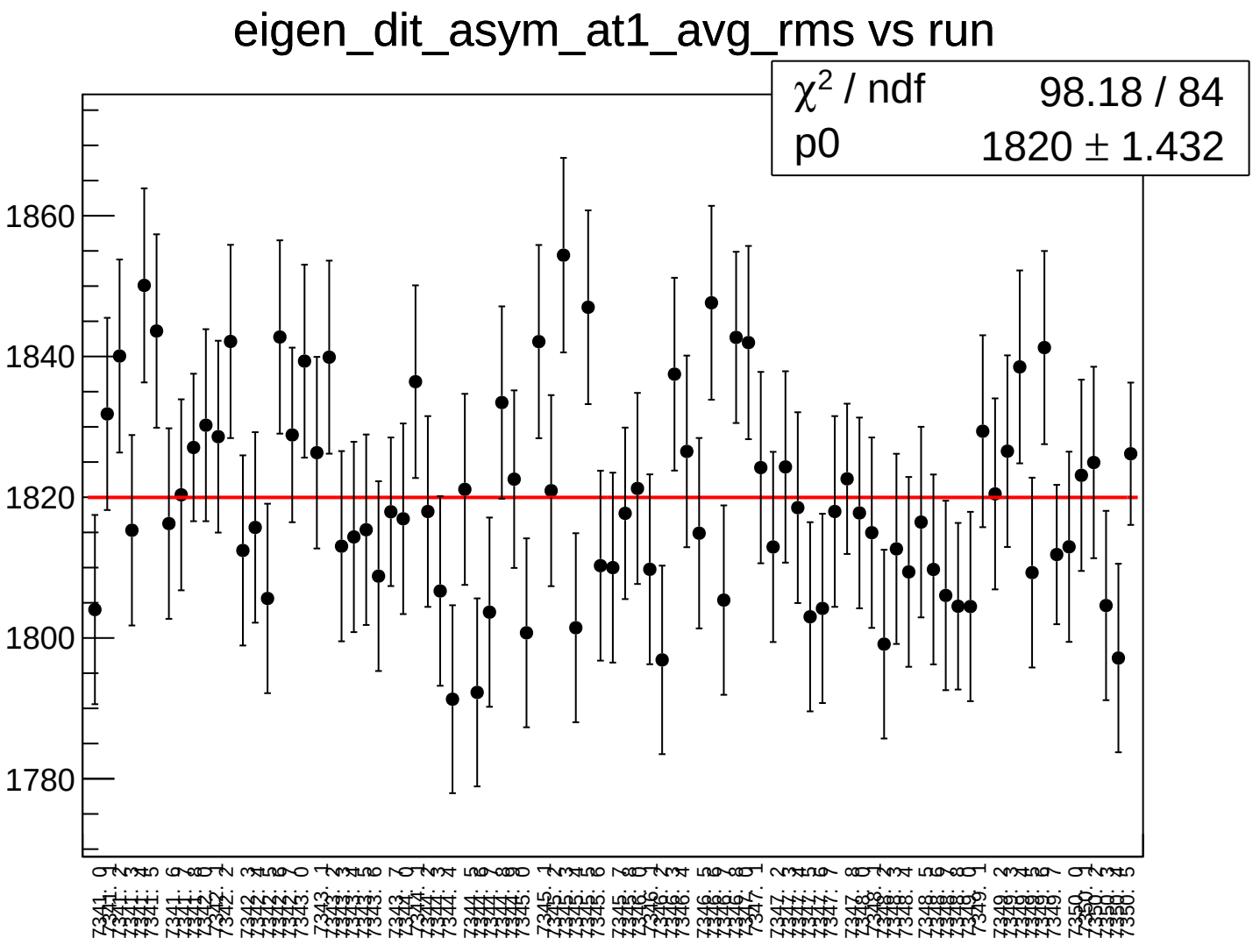

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 77.17 / 84
p0 −354.2 ± 784.4
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −119.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

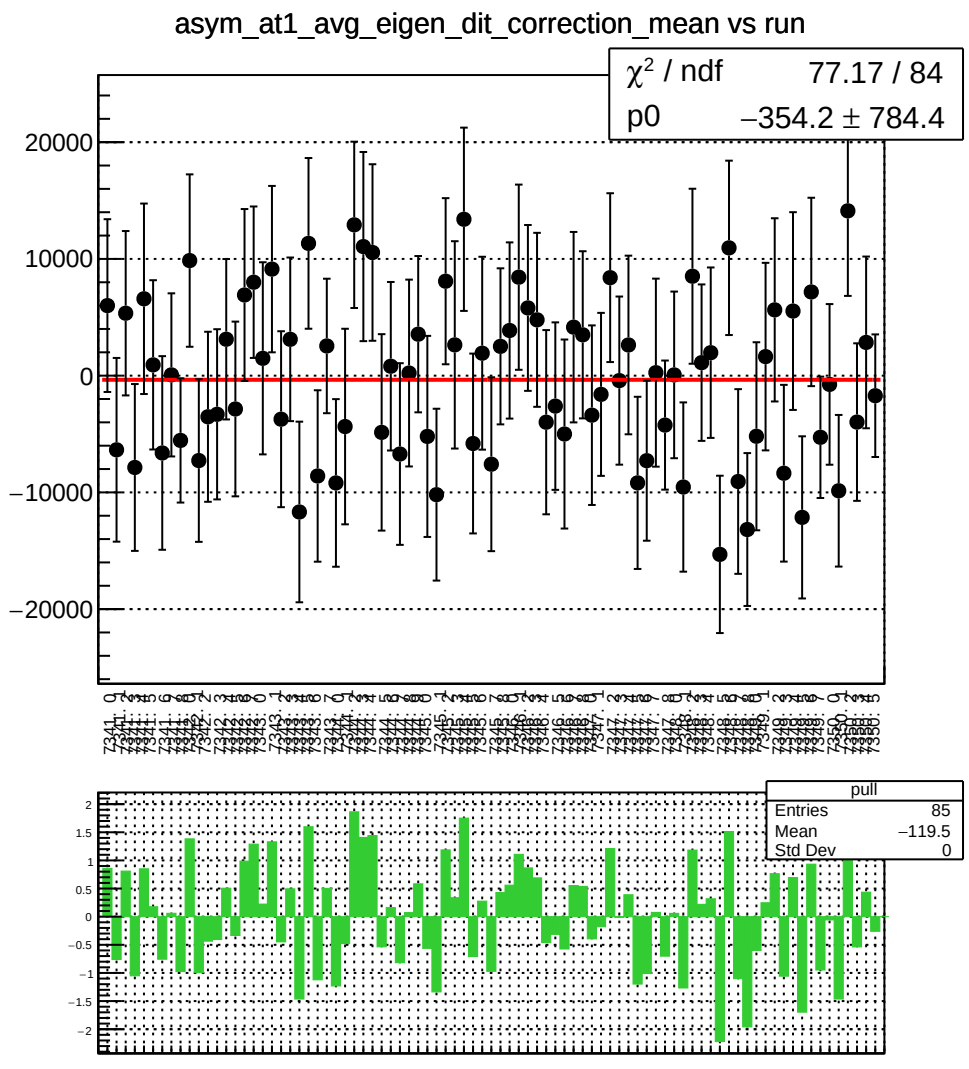

pull1D
Entries 85
Mean 0.01791
Std Dev 0.9526
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

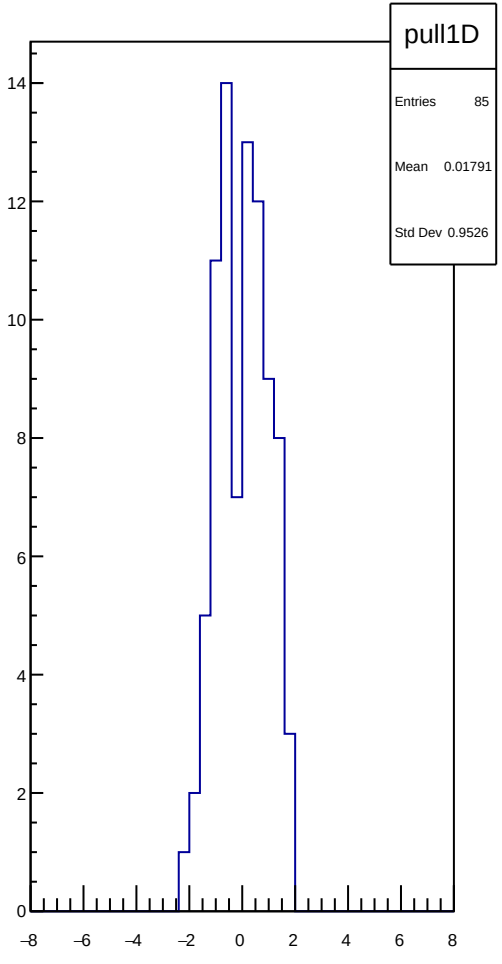

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 6403 / 84
p0 703.8 ± 0.5547
850
800
750
700
650
600

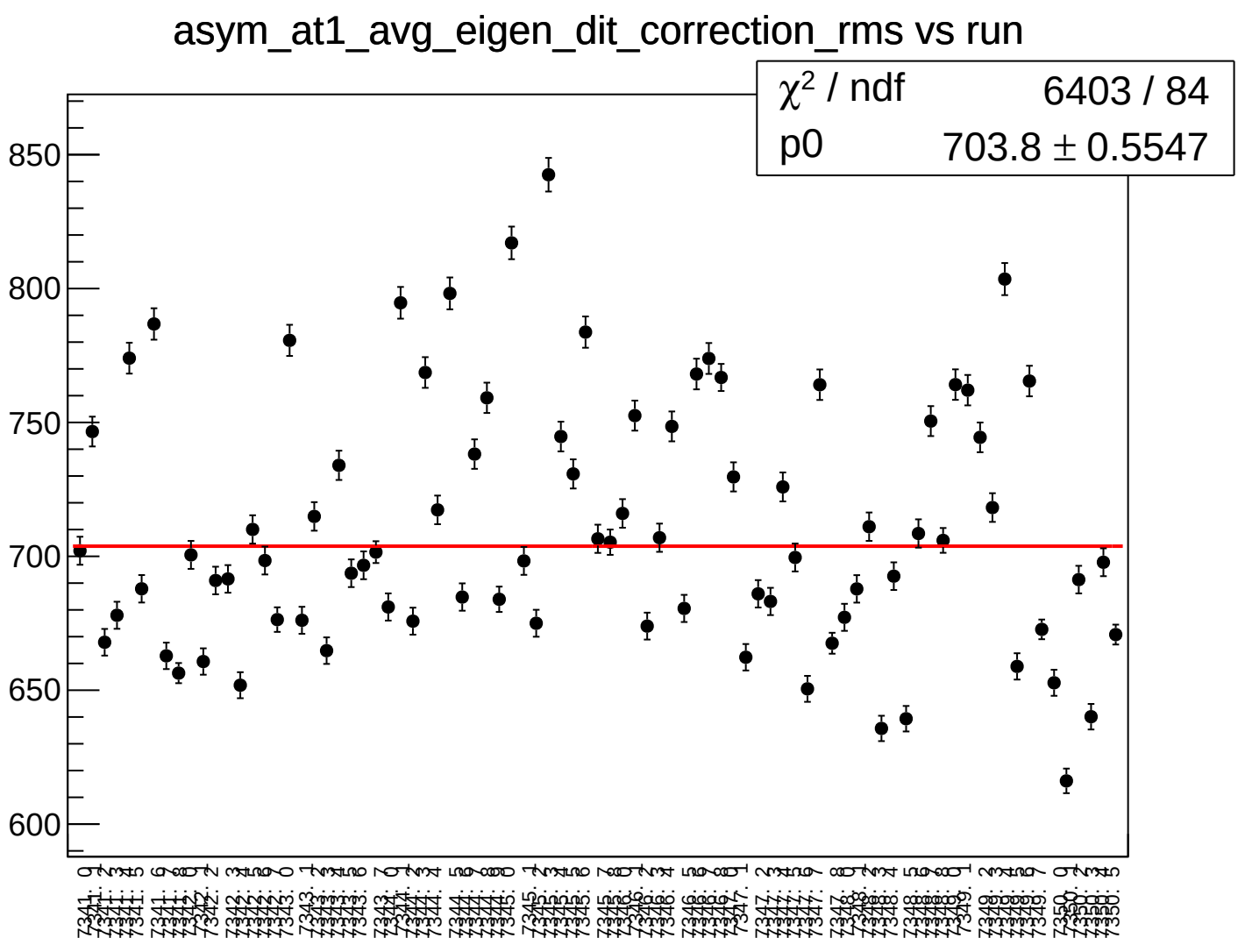

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 83.32 / 84
p0 3695 ± 2024
pull
Entries 85
Mean 40.12
Std Dev 105.4

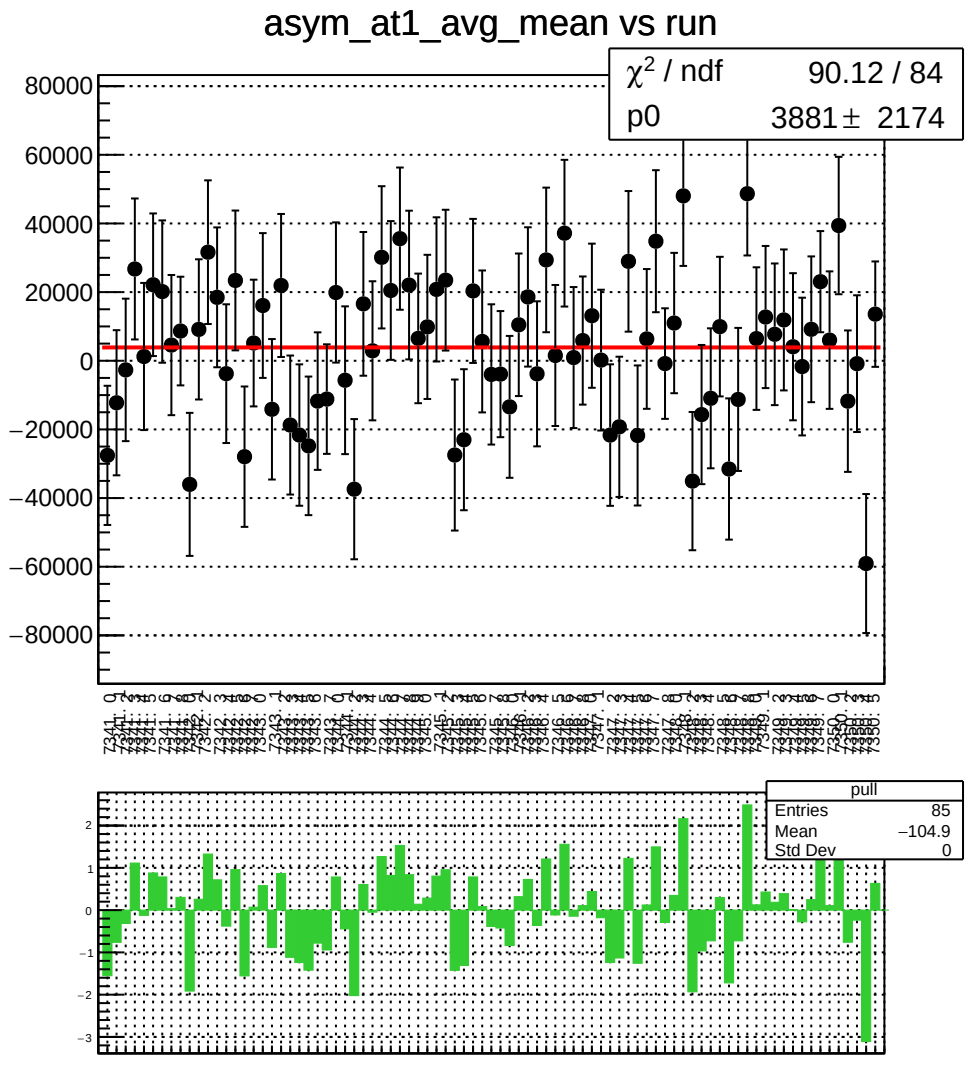

pull1D
Entries 85
Mean −0.004778
Std Dev 0.99

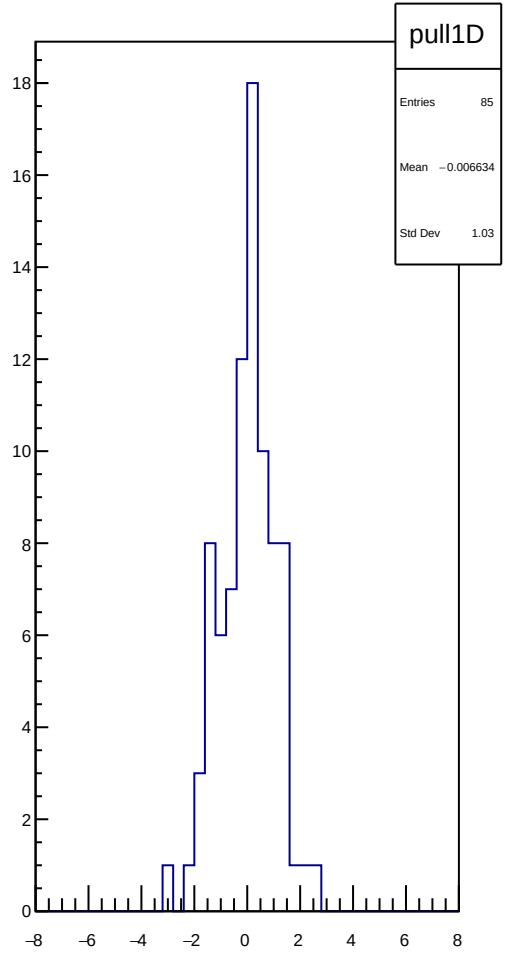

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 98.18 / 84
p0 1820 ± 1.432
1860
1840
1820
1800
1780

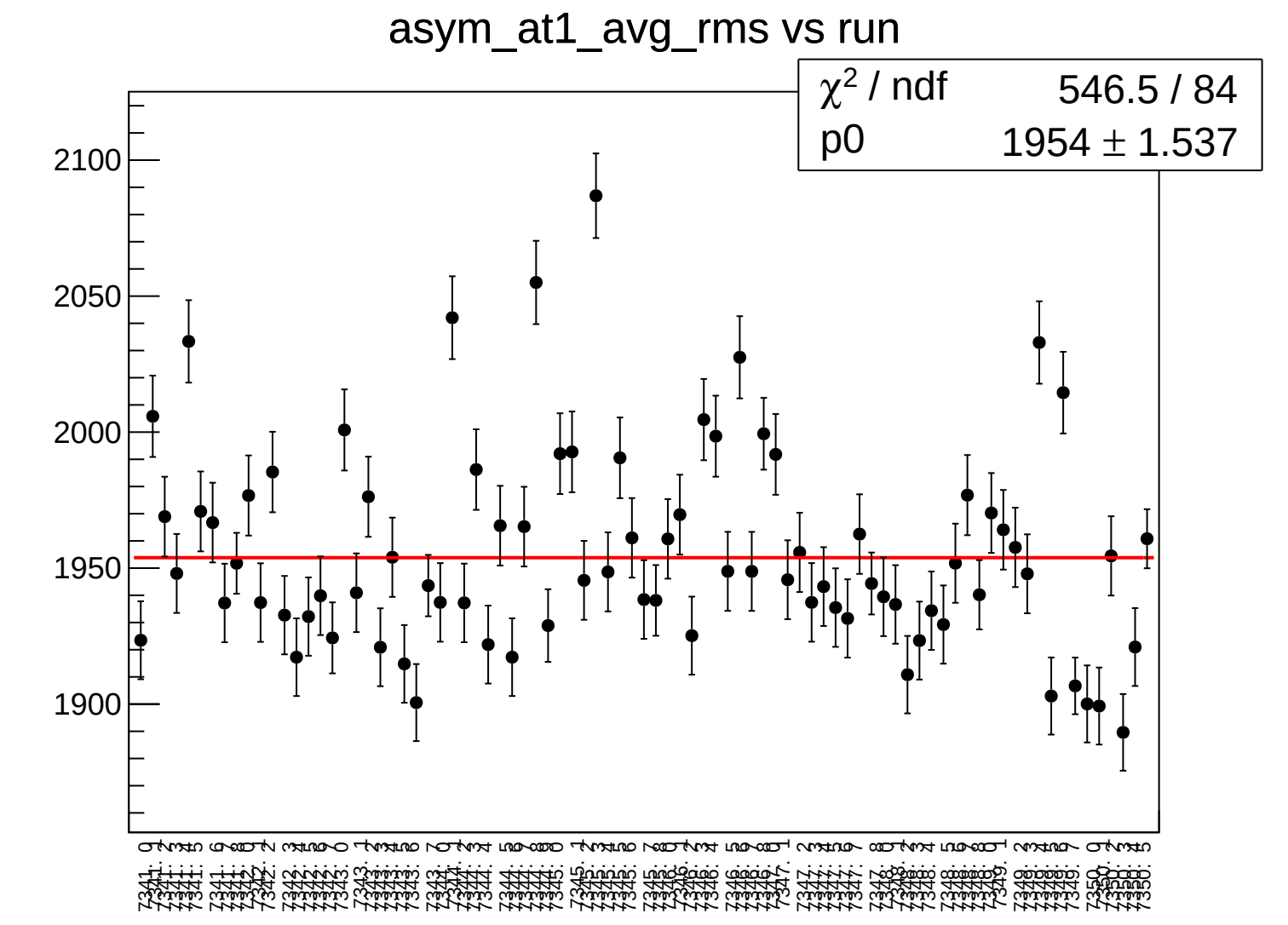

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.17 / 84
p0 −354.2 ± 784.4
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −119.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

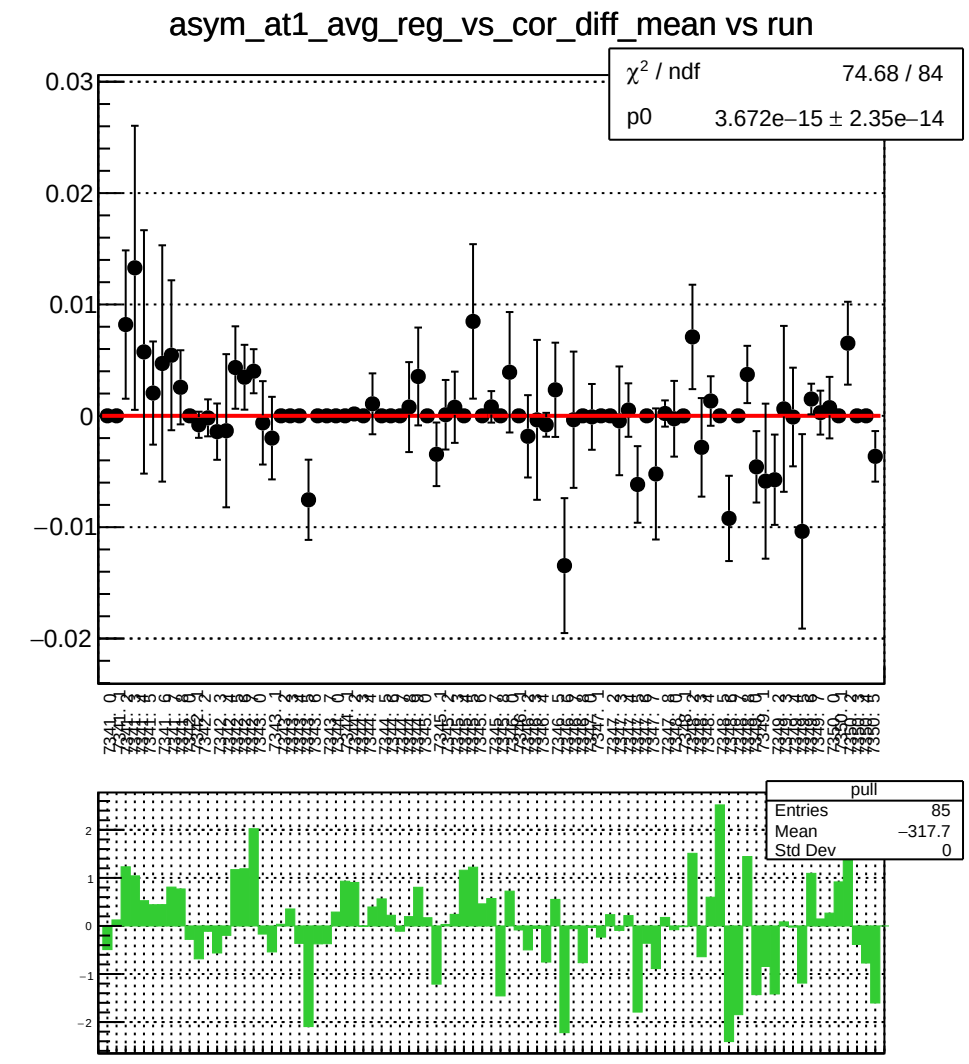

pull1D
Entries 85
Mean 0.01791
Std Dev 0.9526
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

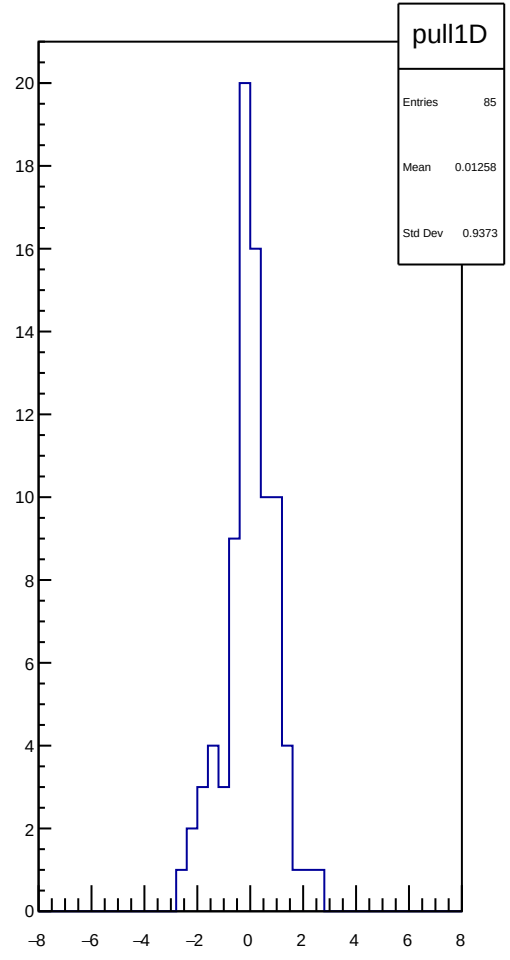

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 6403 / 84
p0 703.8 ± 0.5547
850
800
750
700
650
600

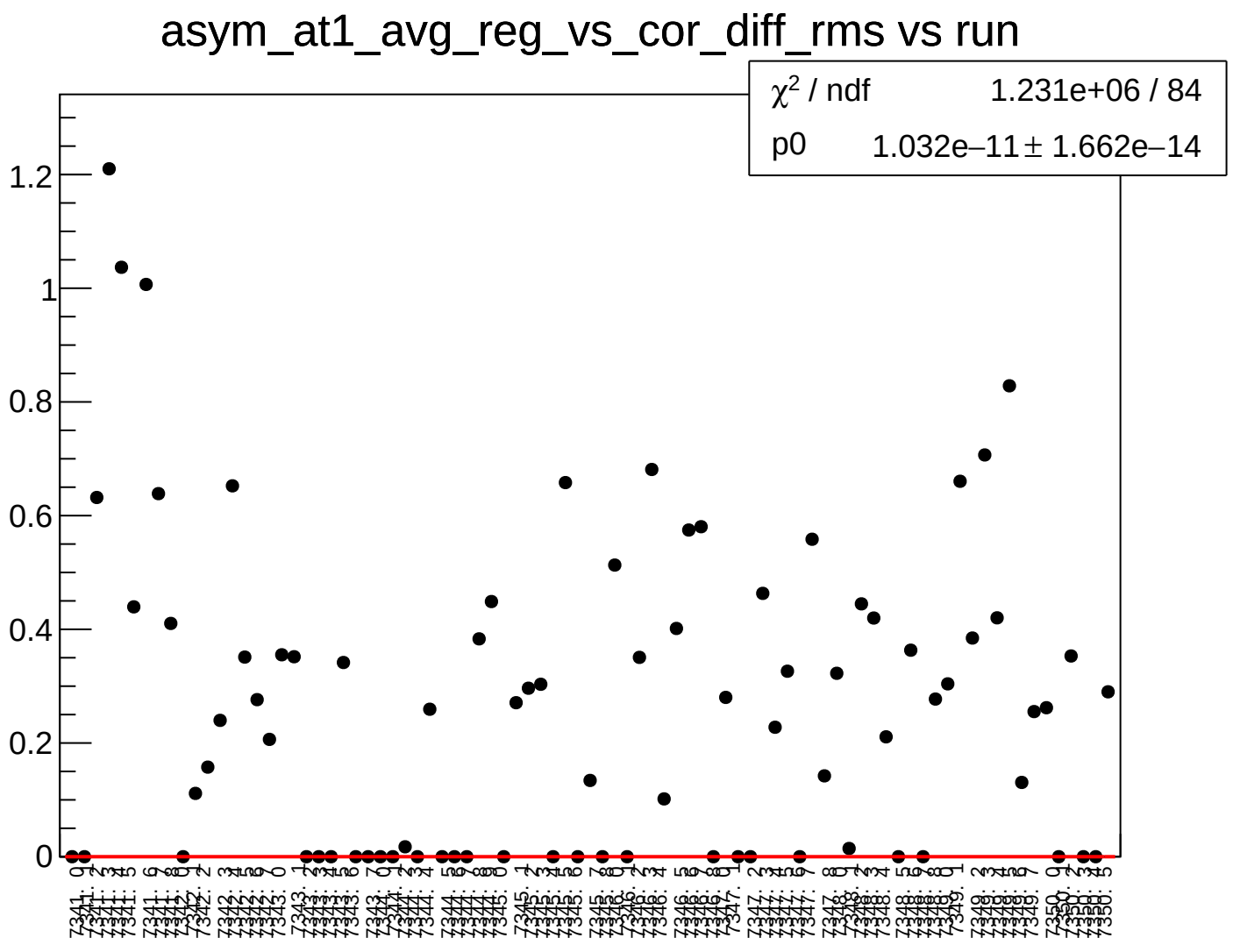

asym_at1_avg_mean vs run
χ² / ndf 90.12 / 84
p0 3881 ± 2174
pull
Entries 85
Mean −104.9
Std Dev 0

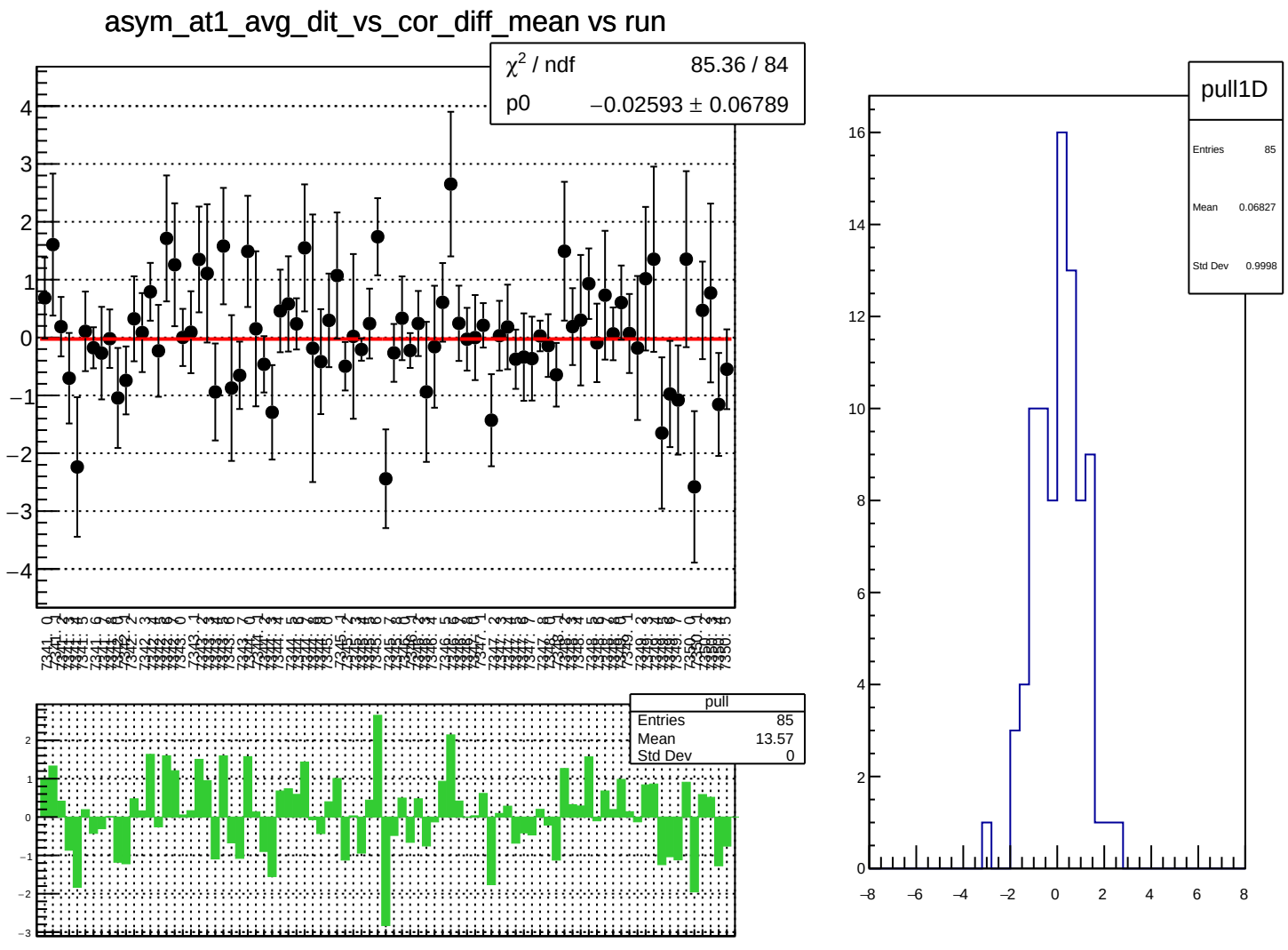

pull1D
Entries 85
Mean −0.006634
Std Dev 1.03

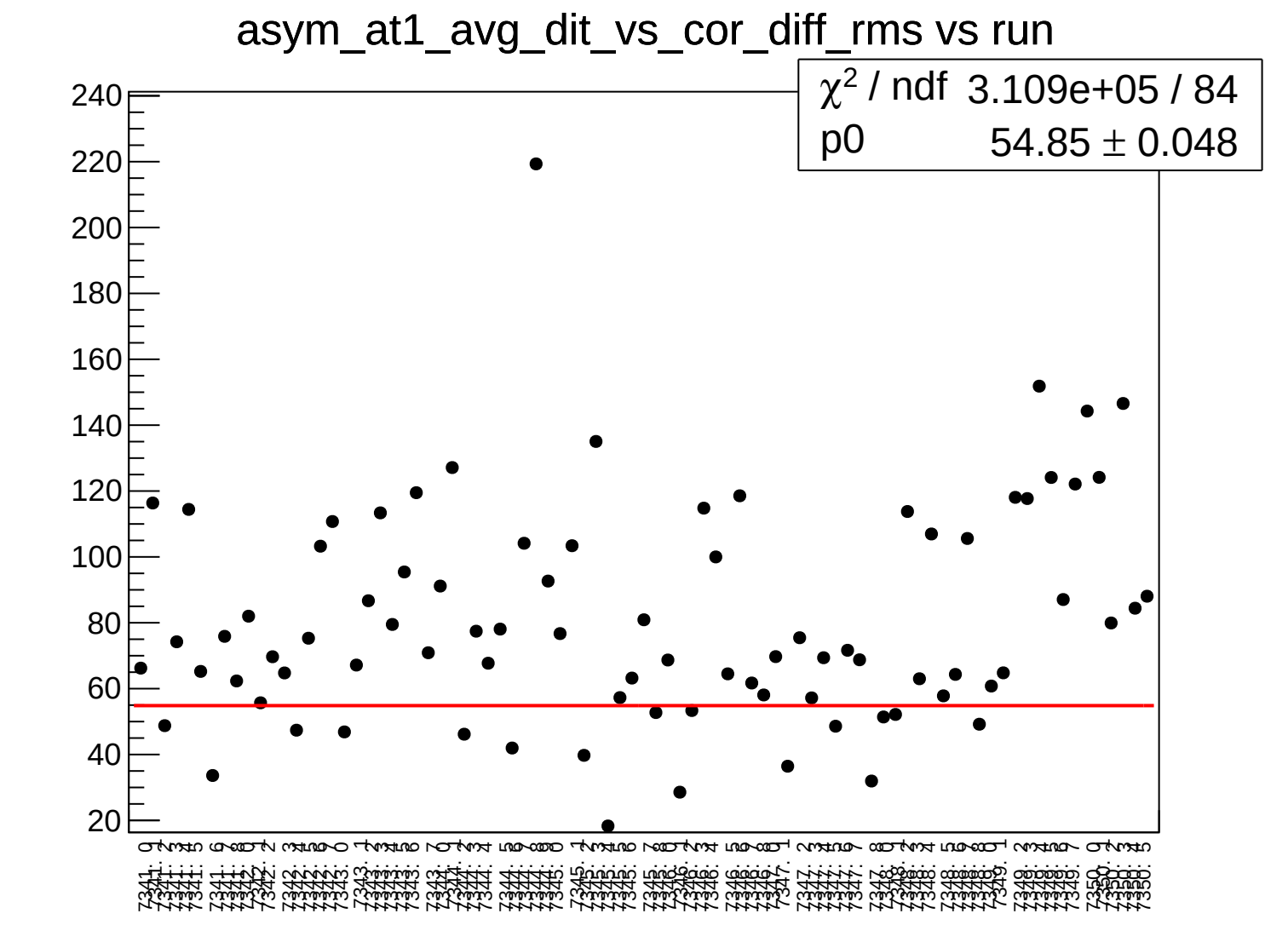

asym_at1_avg_rms vs run
χ² / ndf 546.5 / 84
p0 1954 ± 1.537
2100
2050
2000
1950
1900

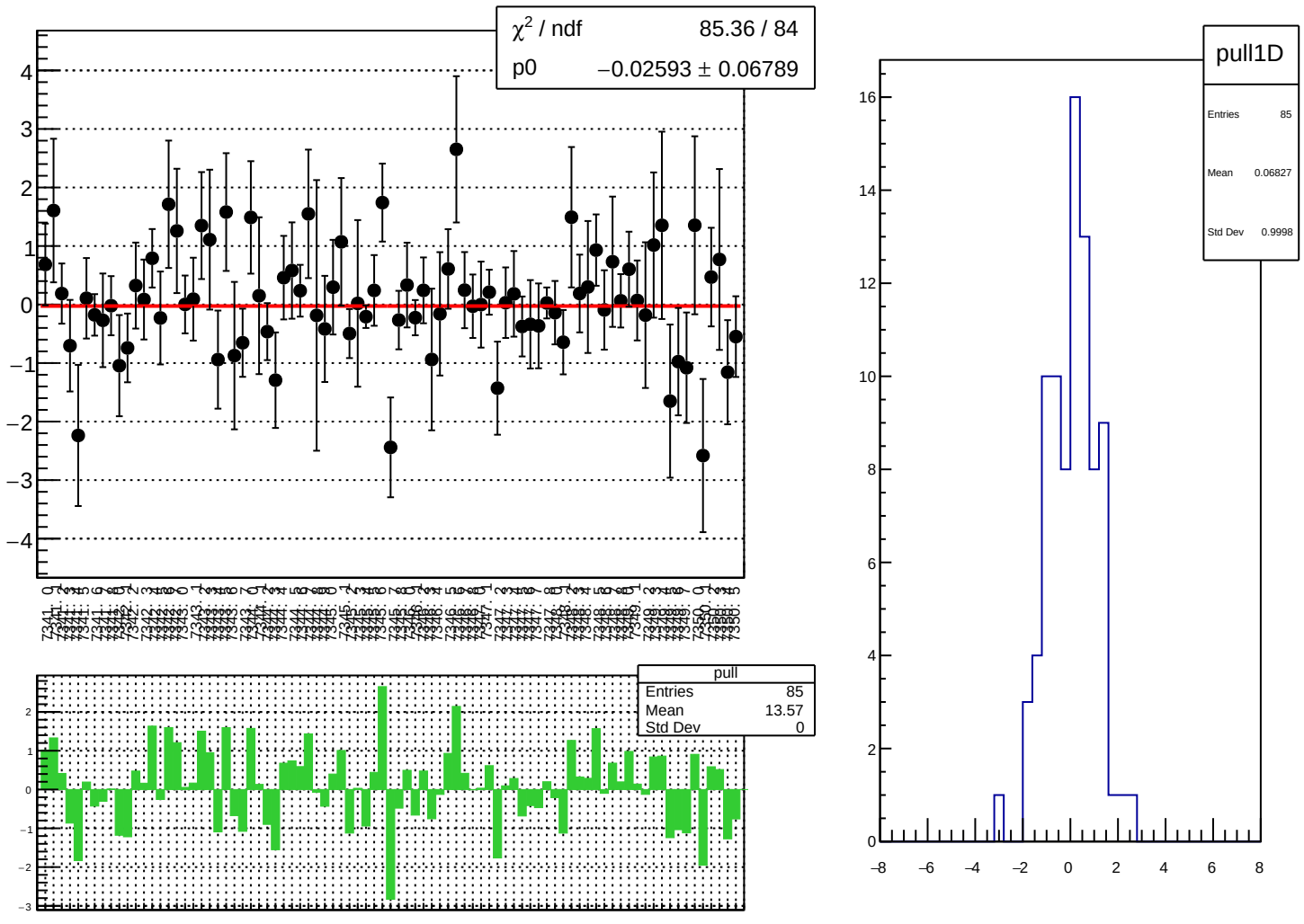

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.68 / 84
p0 3.672e−15 ± 2.35e−14
pull
Entries 85
Mean −317.7
Std Dev 0

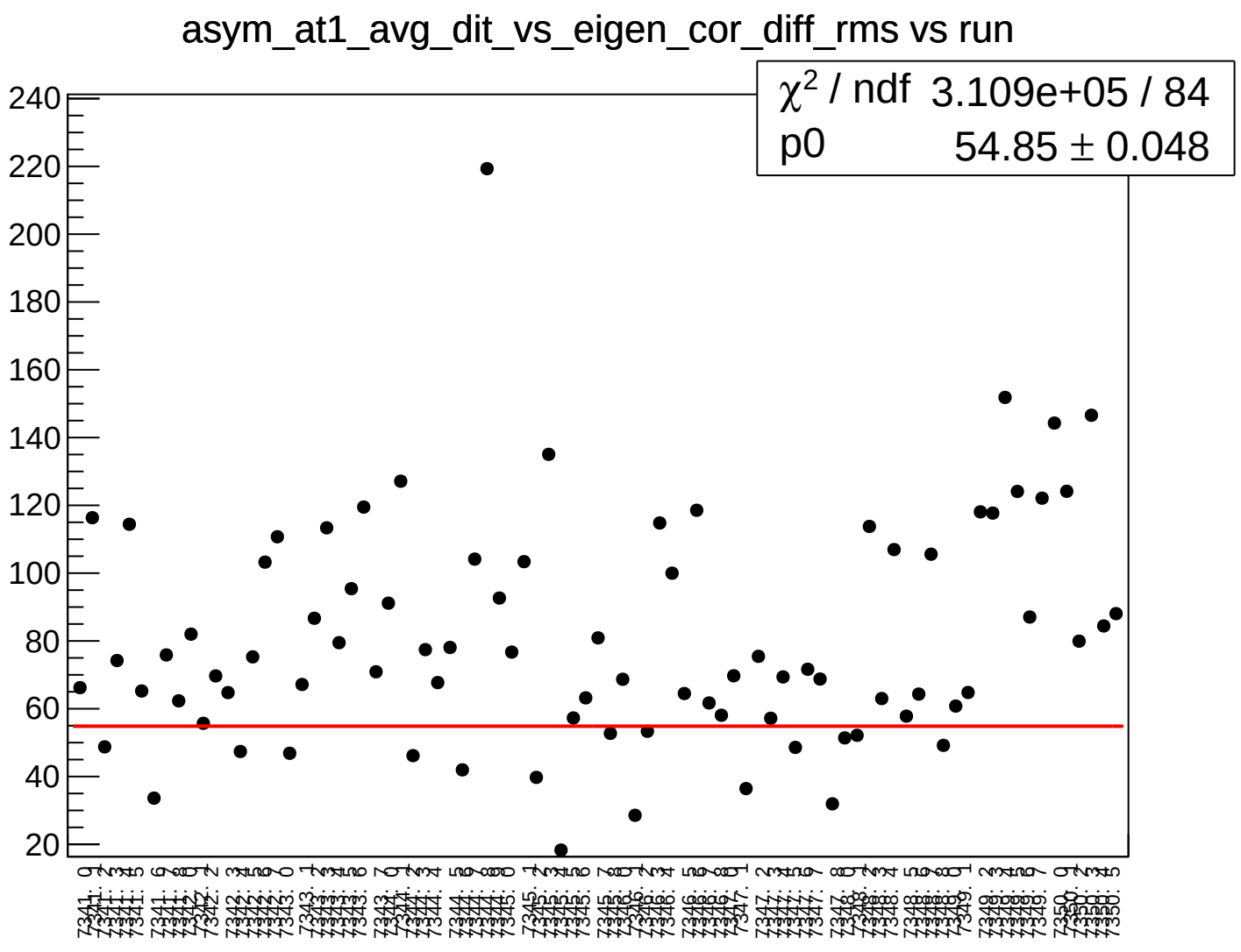

pull1D
Entries 85
Mean 0.01258
Std Dev 0.9373

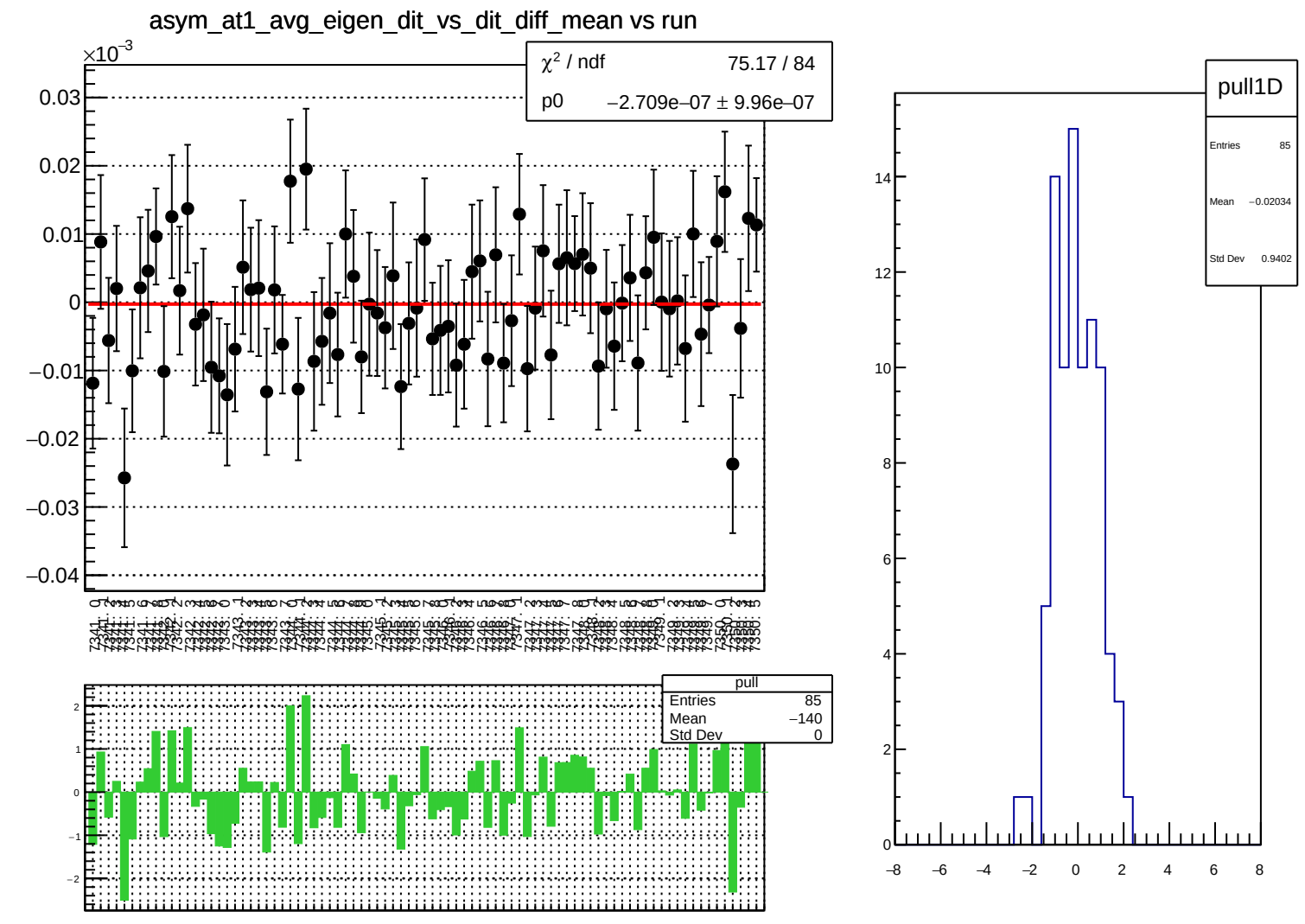

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.231e+06 / 84
p0 1.032e−11 ± 1.662e−14
1.2
1
0.8
0.6
0.4
0.2
0

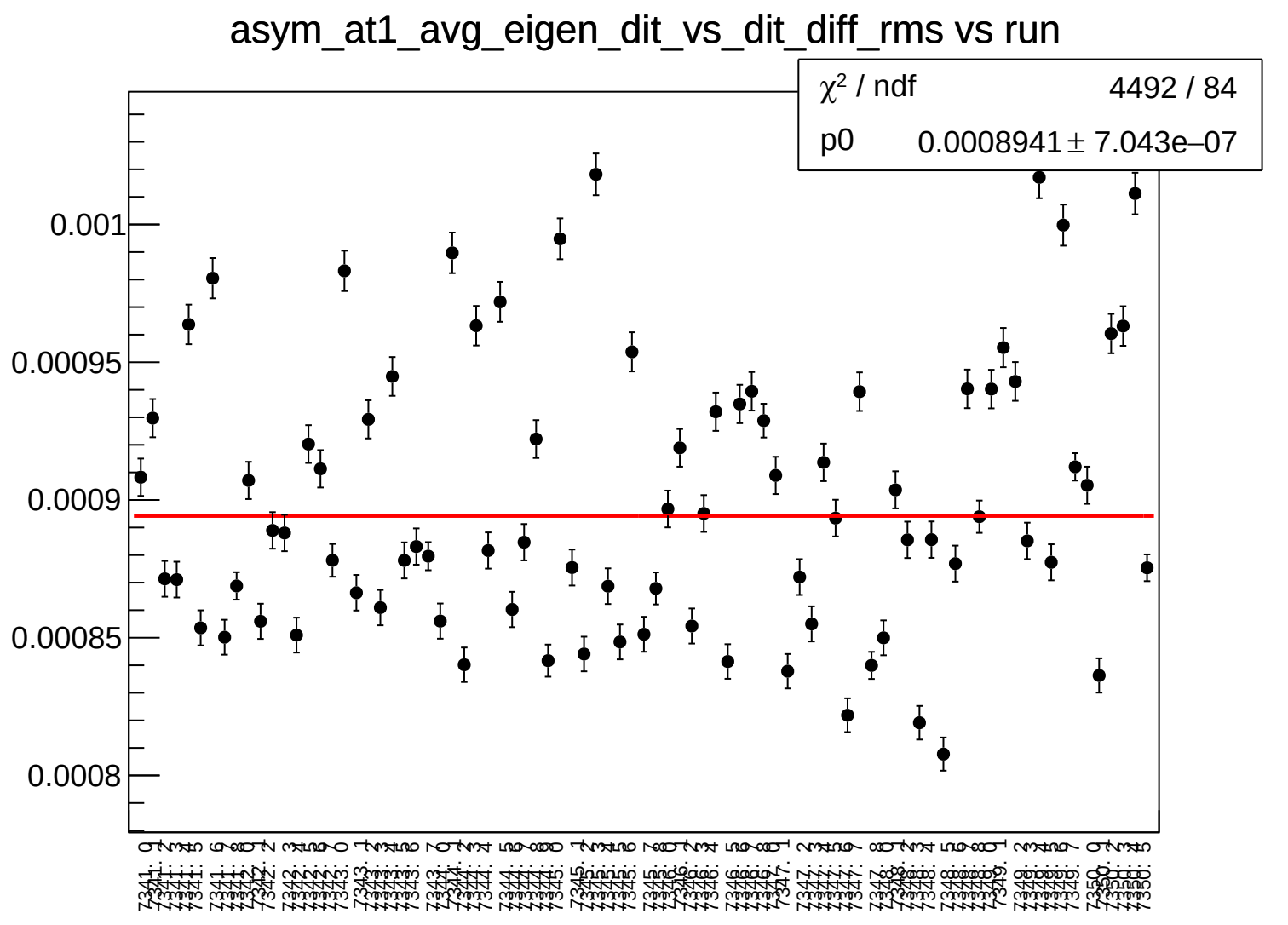

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.36 / 84
p0 −0.02593 ± 0.06789
pull
Entries 85
Mean 13.57
Std Dev 0
pull1D
Entries 85
Mean 0.06827
Std Dev 0.9998


asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.109e+05 / 84
p0 54.85 ± 0.048
240
220
200
180
160
140
120
100
80
60
40
20

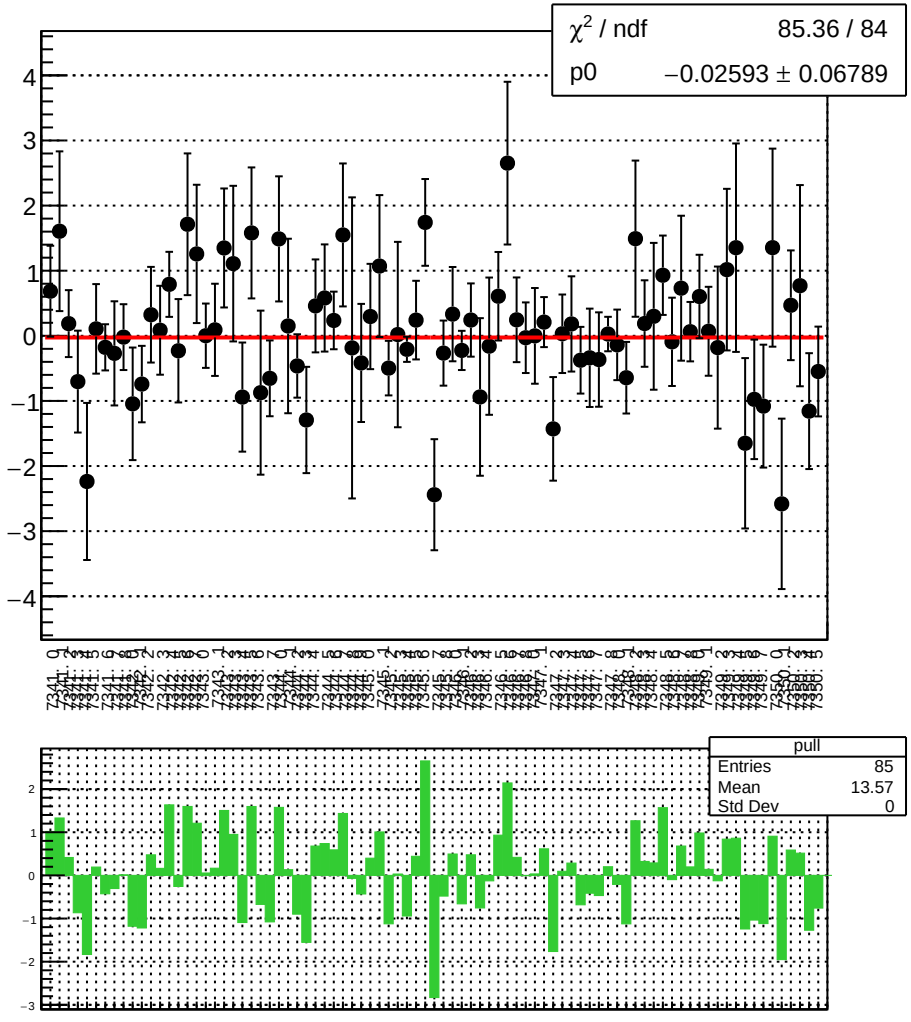

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.36 / 84
p0 −0.02593 ± 0.06789
pull
Entries 85
Mean 13.57
Std Dev 0
pull1D
Entries 85
Mean 0.06827
Std Dev 0.9998

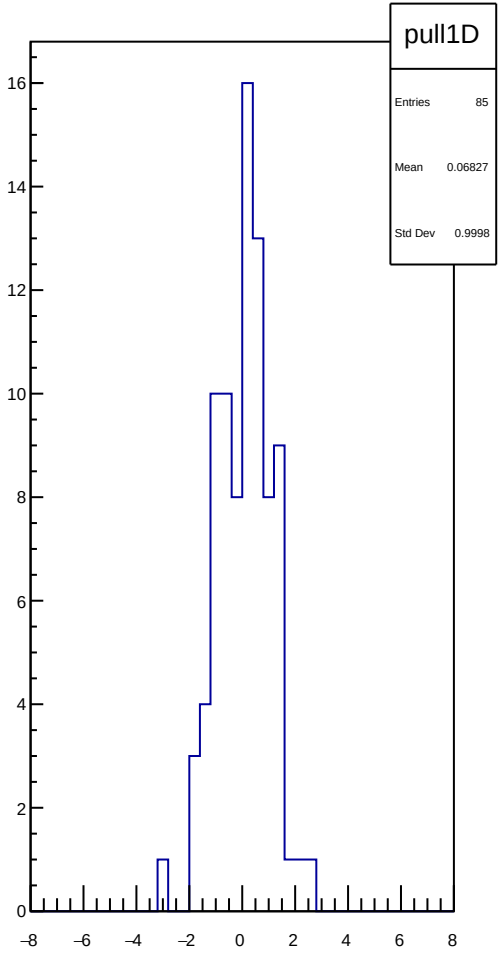

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.109e+05 / 84
p0 54.85 ± 0.048
240
220
200
180
160
140
120
100
80
60
40
20

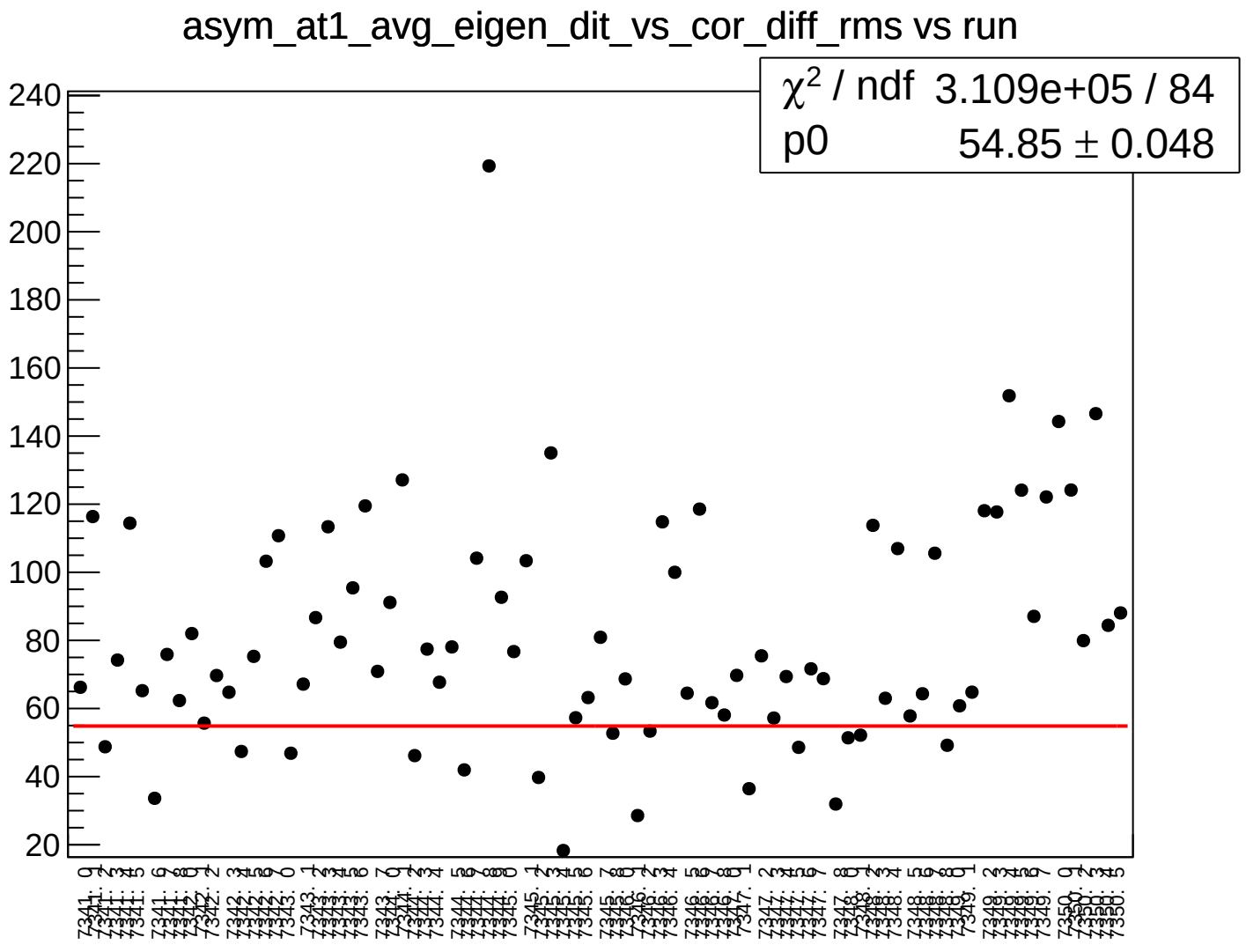

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.17 / 84
p0 −2.709e−07 ± 9.96e−07
pull
Entries 85
Mean −140
Std Dev 0
pull1D
Entries 85
Mean −0.02034
Std Dev 0.9402

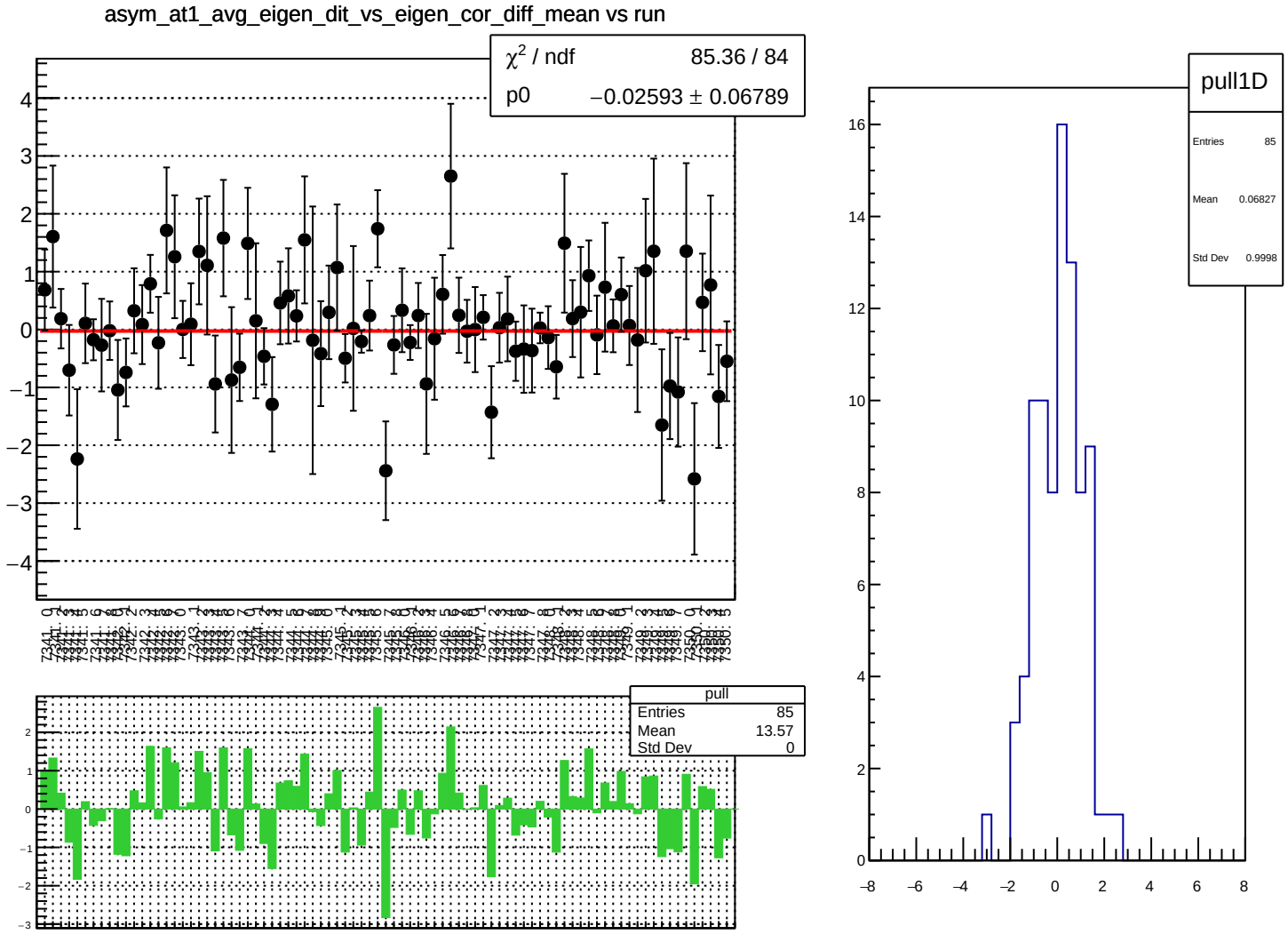

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4492 / 84
p0 0.0008941 ± 7.043e−07
0.001
0.00095
0.0009
0.00085
0.0008

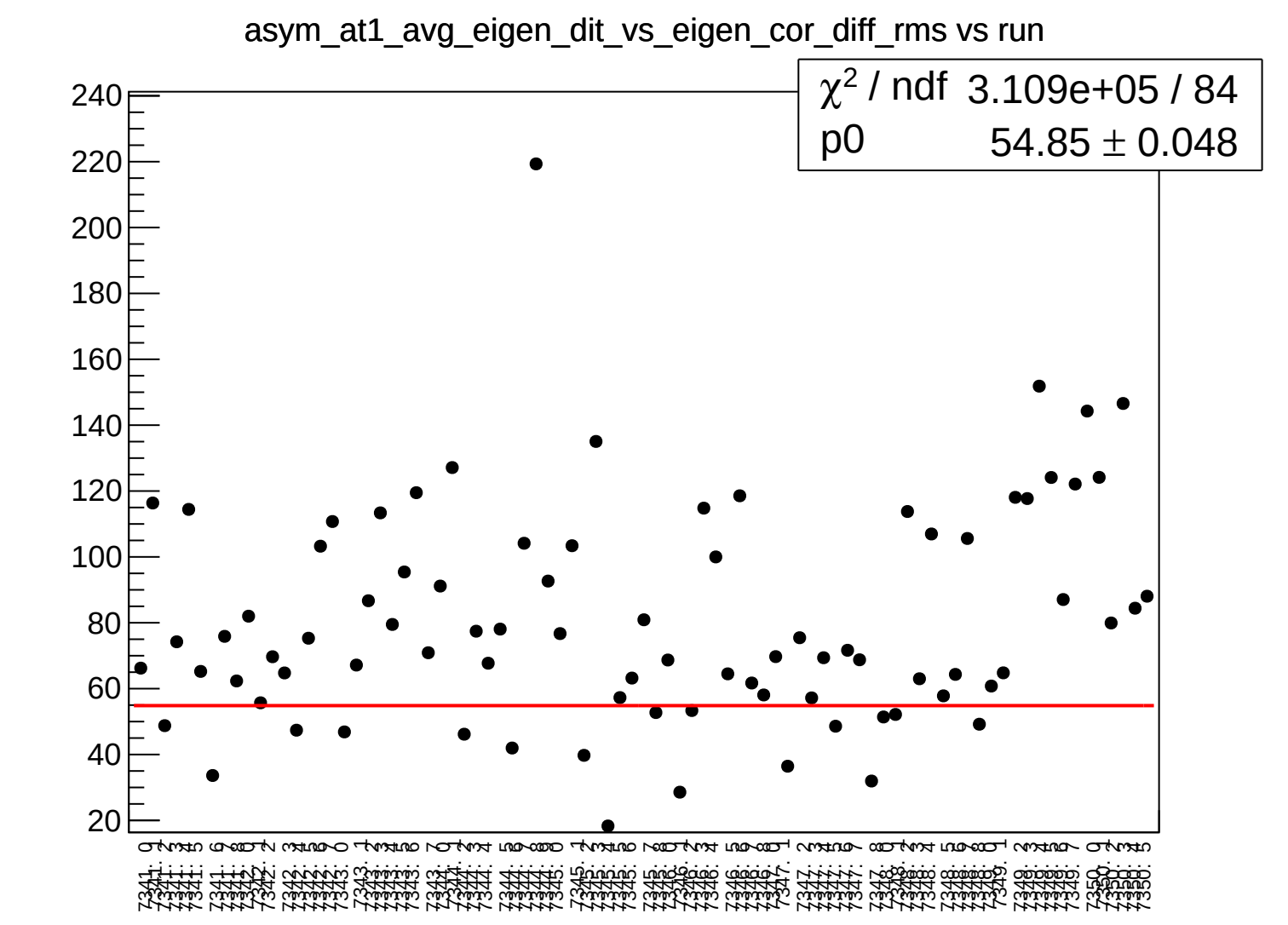
asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run

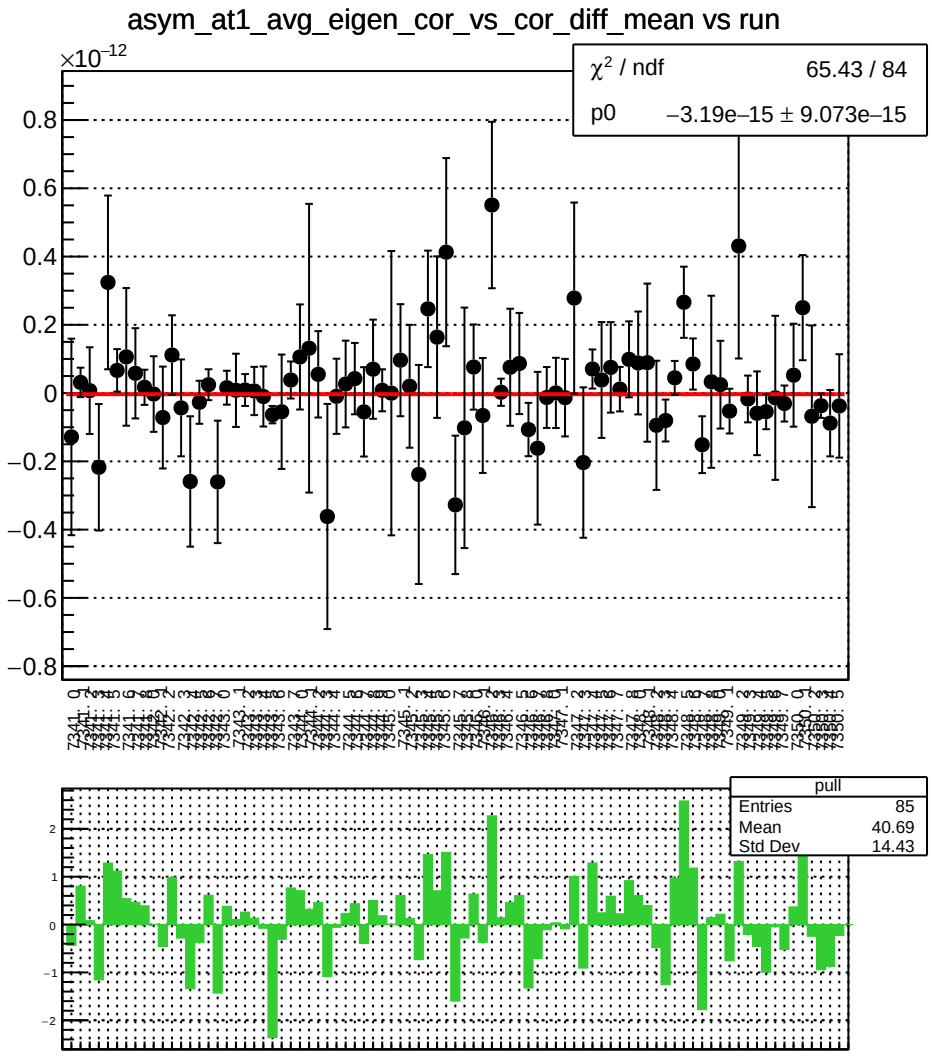


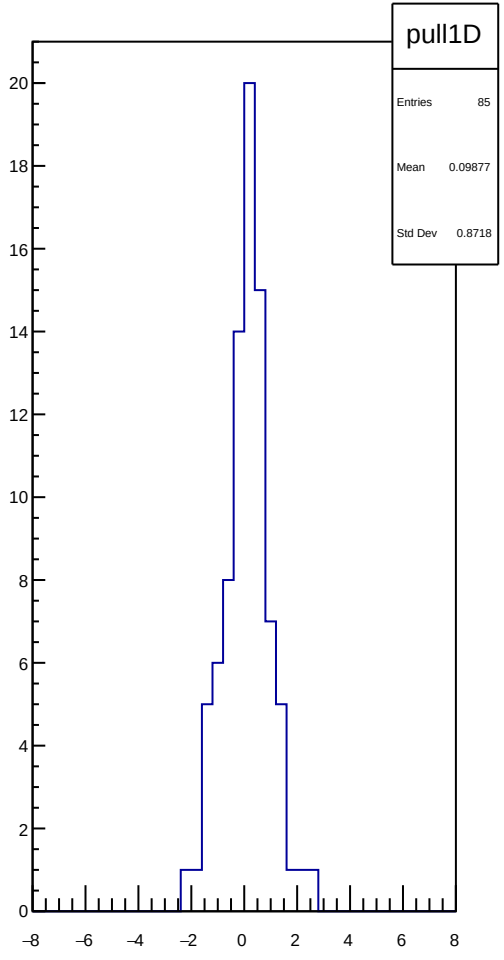


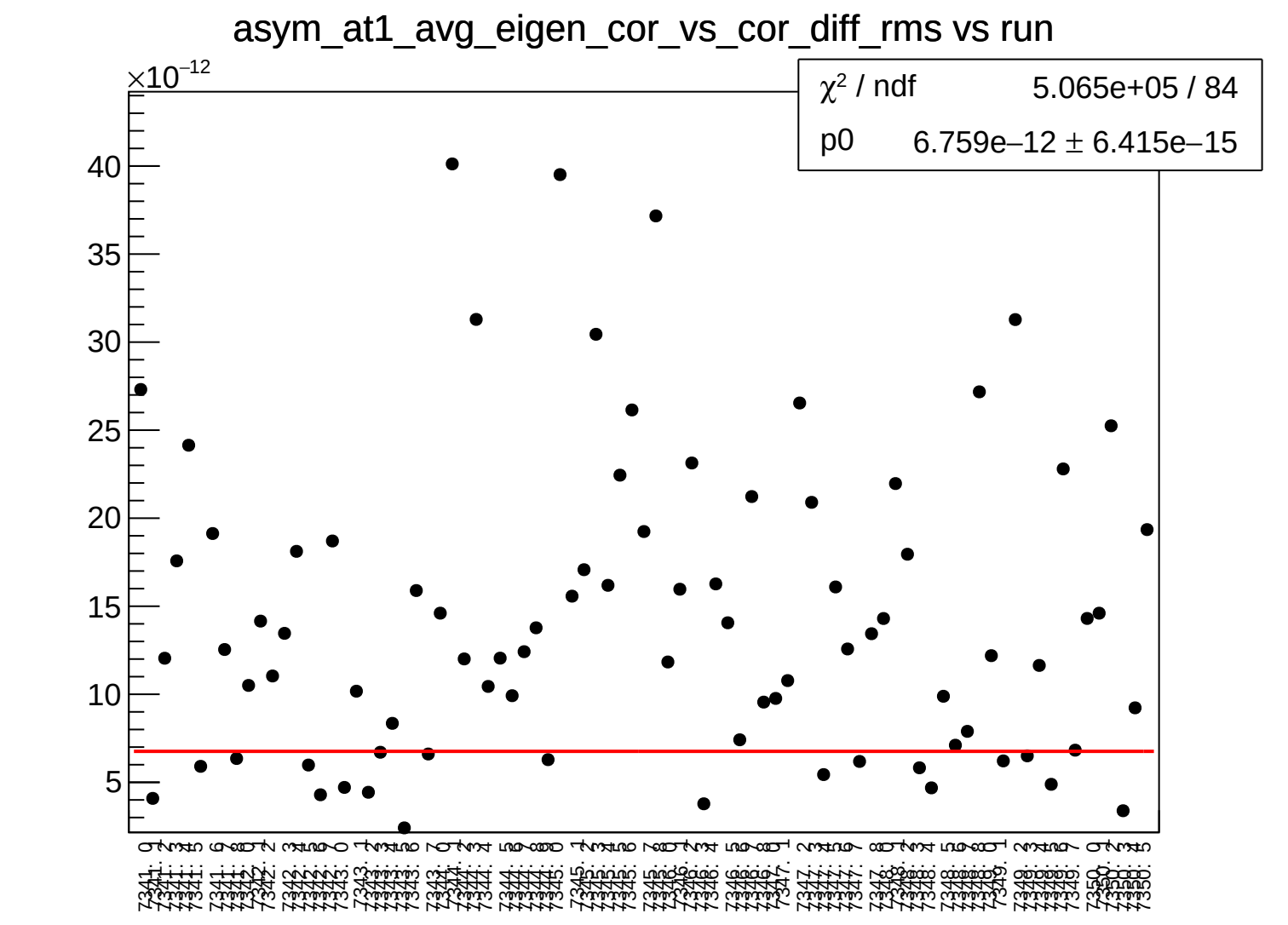

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.109e+05 / 84
p0 54.85 ± 0.048
240
220
200
180
160
140
120
100
80
60
40
20

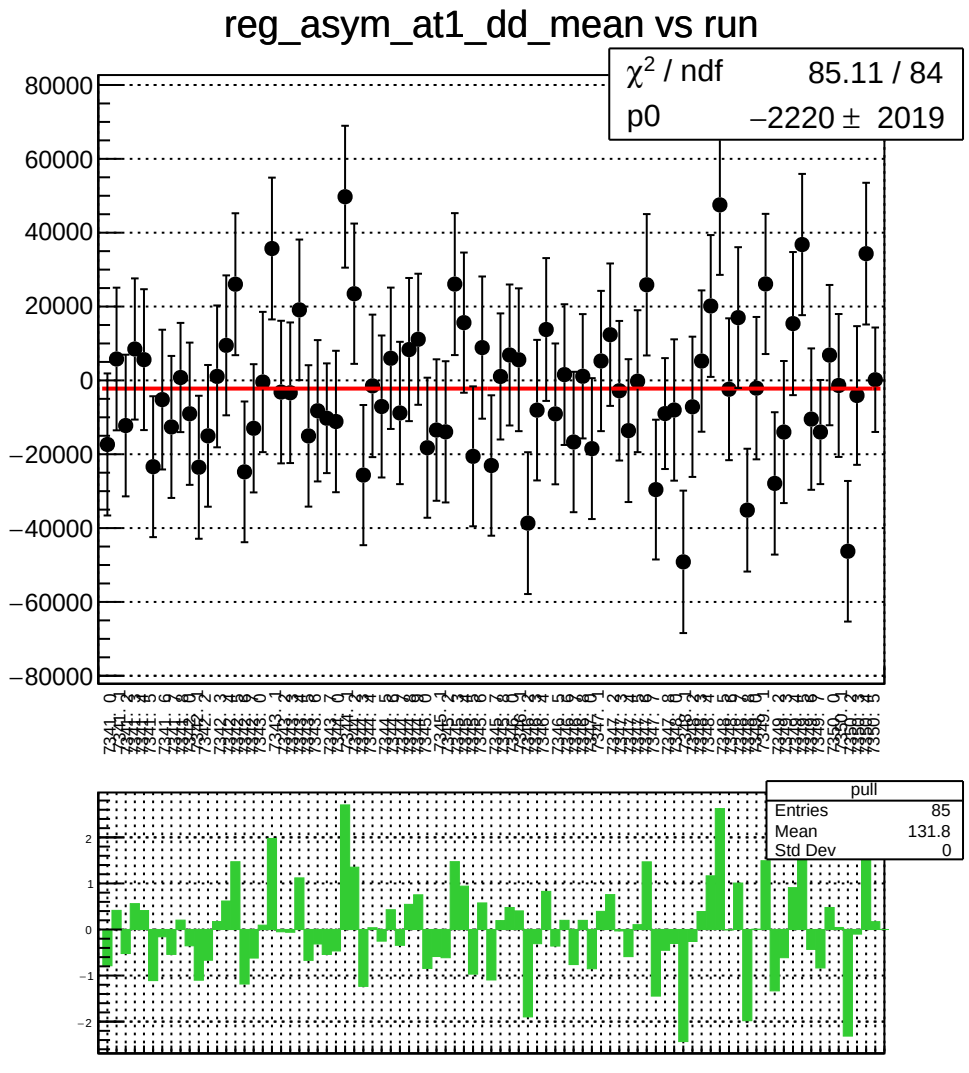

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.36 / 84
p0 −0.02593 ± 0.06789
pull
Entries 85
Mean 13.57
Std Dev 0
pull1D
Entries 85
Mean 0.06827
Std Dev 0.9998

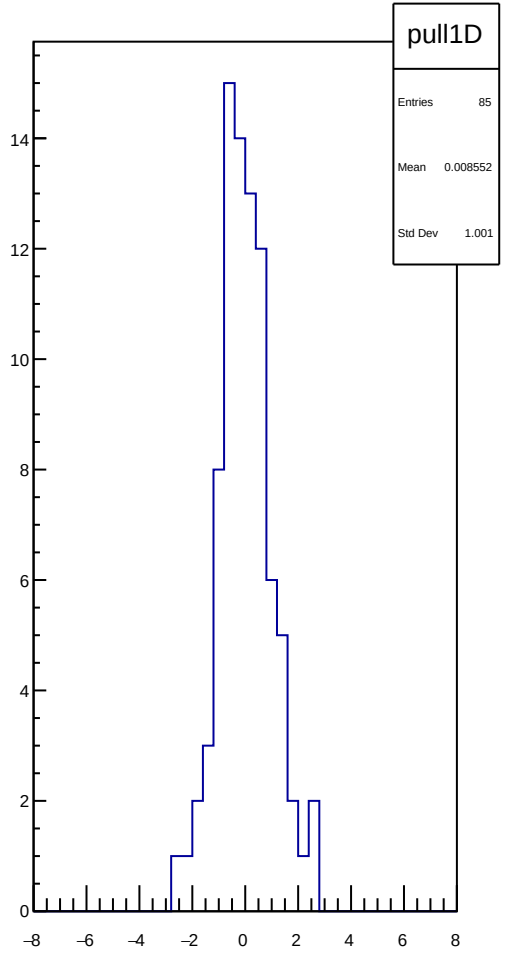

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.109e+05 / 84
p0 54.85 ± 0.048
240
220
200
180
160
140
120
100
80
60
40
20

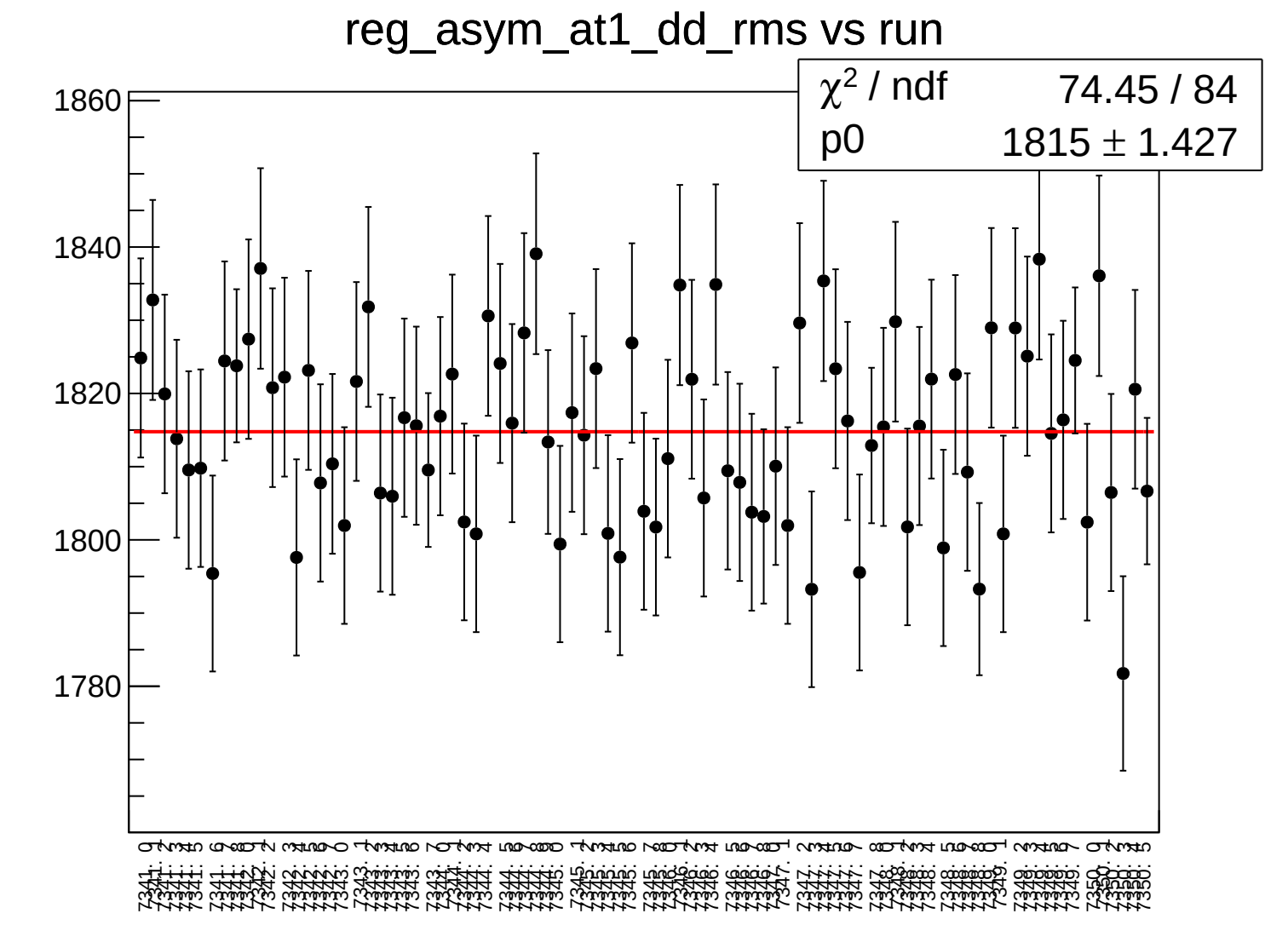

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.43 / 84
p0 −3.19e−15 ± 9.073e−15
pull
Entries 85
Mean 40.69
Std Dev 14.43

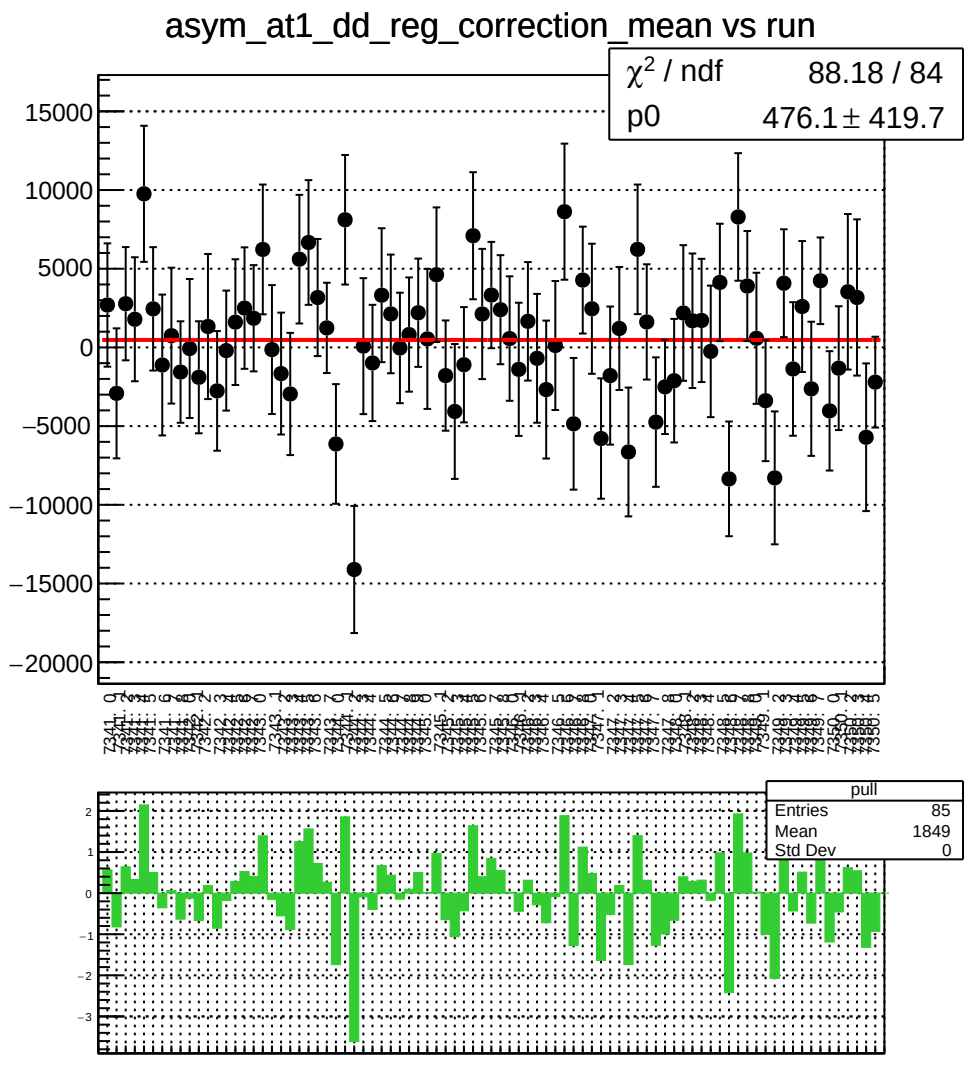

pull1D
Entries 85
Mean 0.09877
Std Dev 0.8718

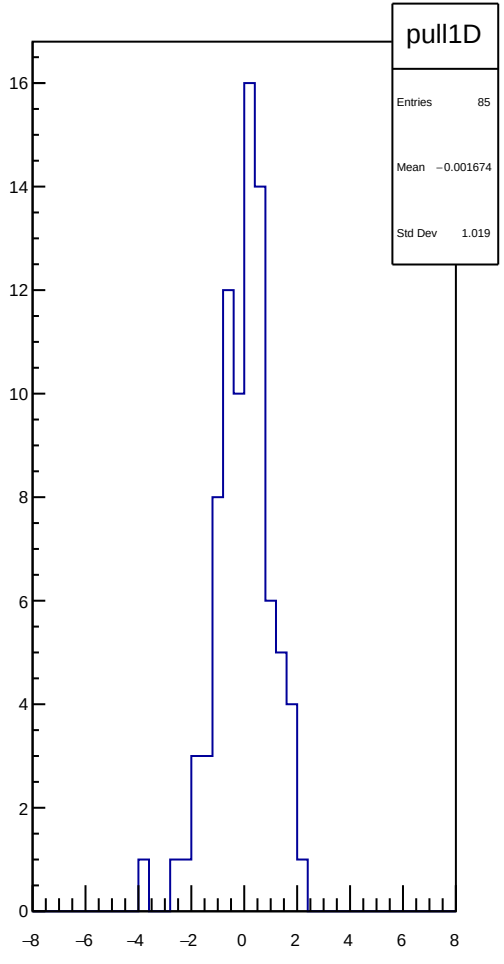

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.065e+05 / 84
p0 6.759e−12 ± 6.415e−15
40
35
30
25
20
15
10
5

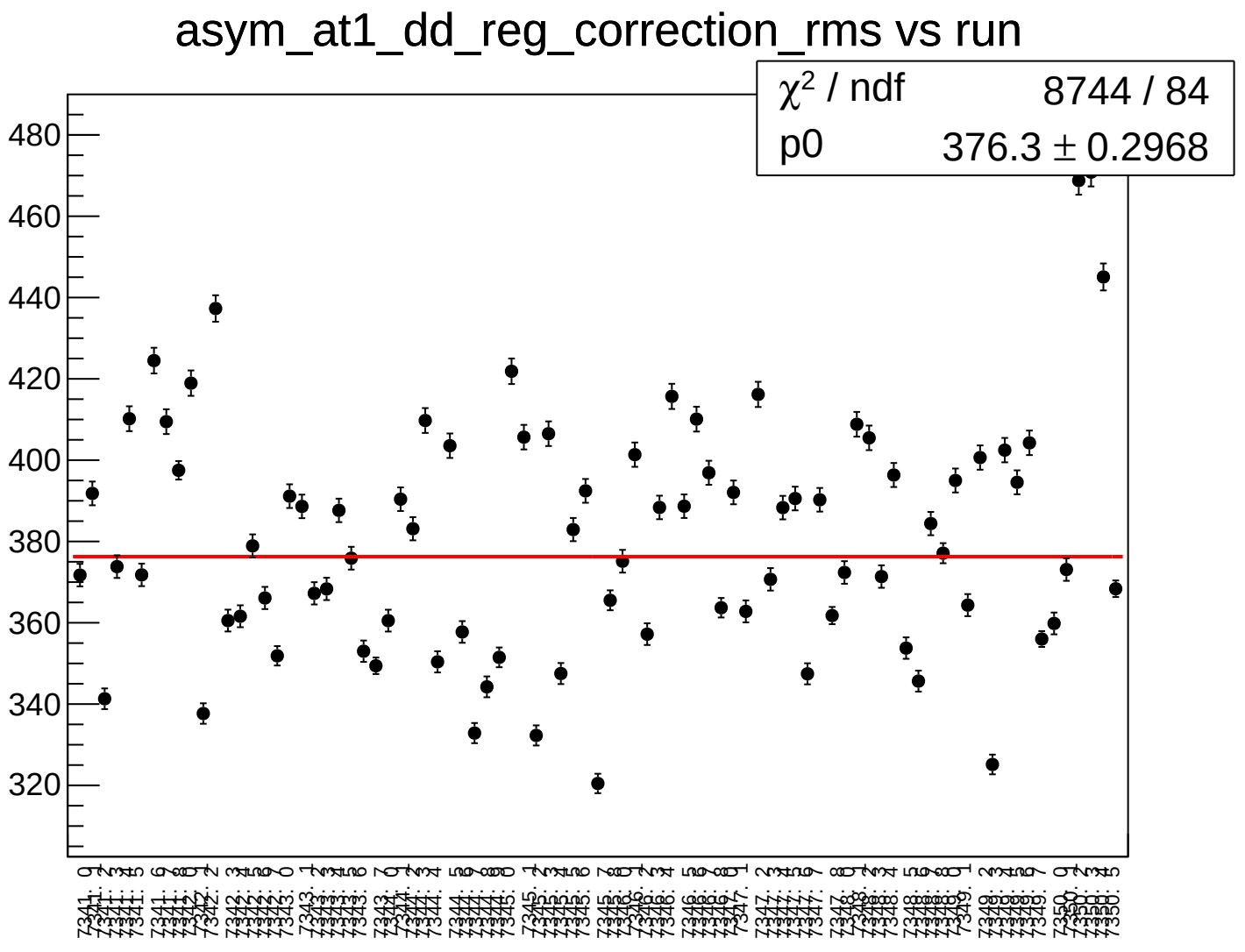

reg_asym_at1_dd_mean vs run
χ² / ndf 85.11 / 84
p0 −2220 ± 2019
pull
Entries 85
Mean 131.8
Std Dev 0

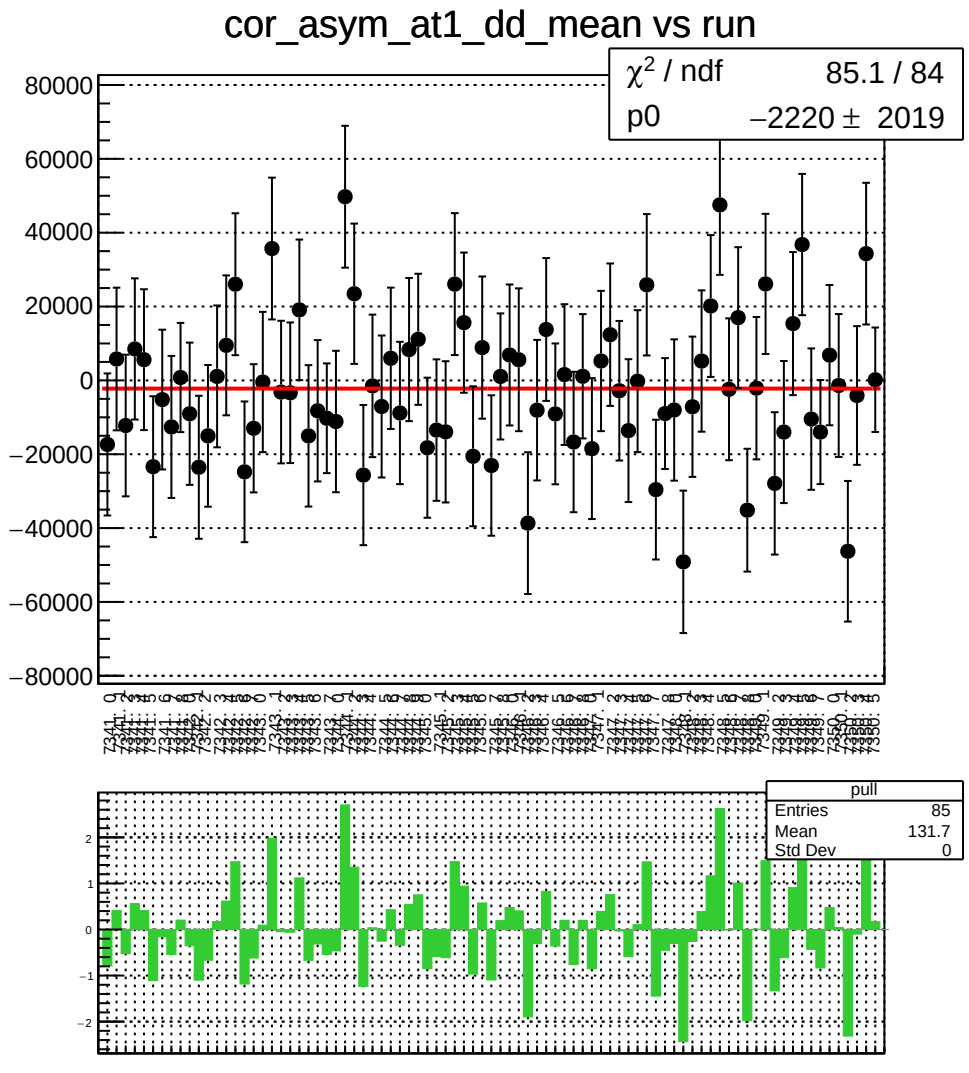

pull1D
Entries 85
Mean 0.008552
Std Dev 1.001

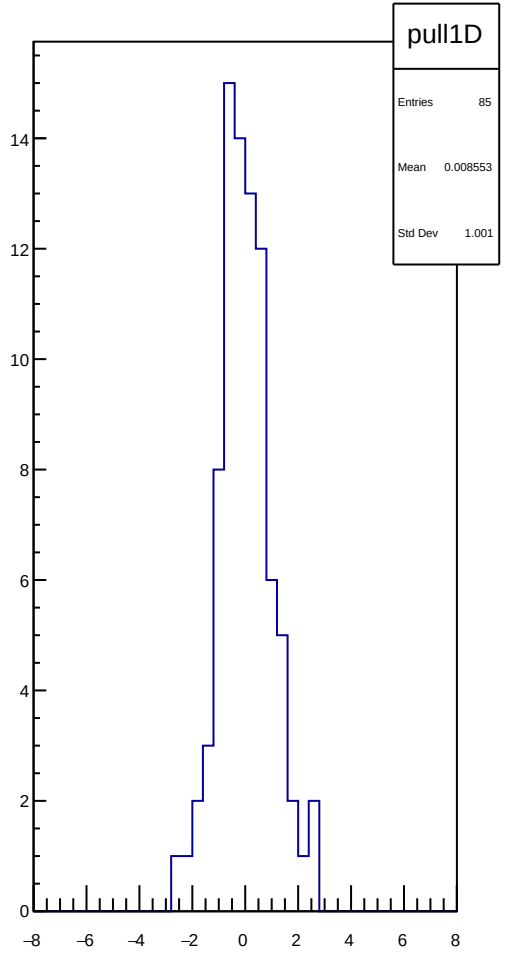

reg_asym_at1_dd_rms vs run
χ² / ndf 74.45 / 84
p0 1815 ± 1.427
1860
1840
1820
1800
1780

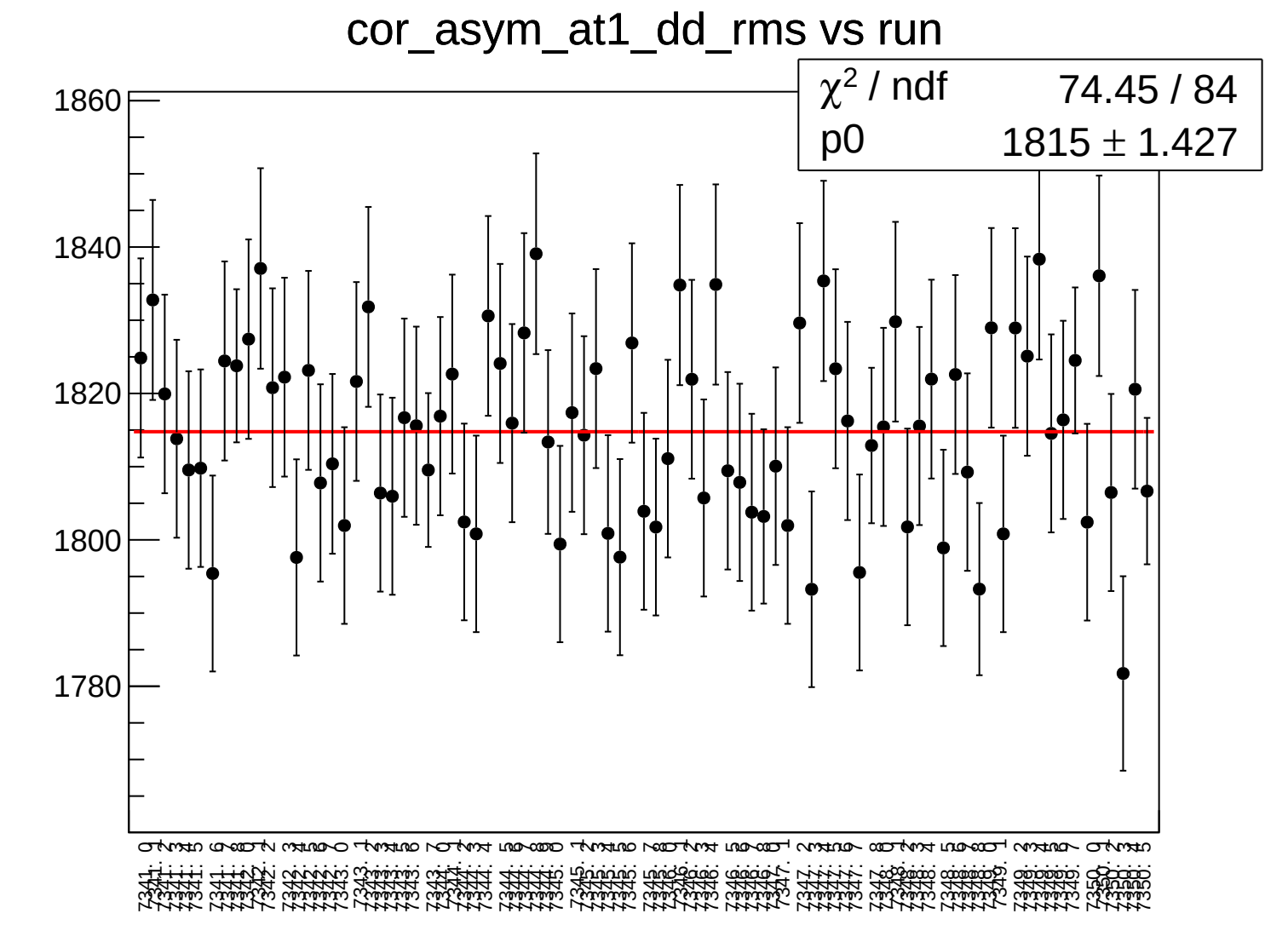

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 88.18 / 84
p0 476.1 ± 419.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 1849
Std Dev 0
2
1
0
−1
−2
−3

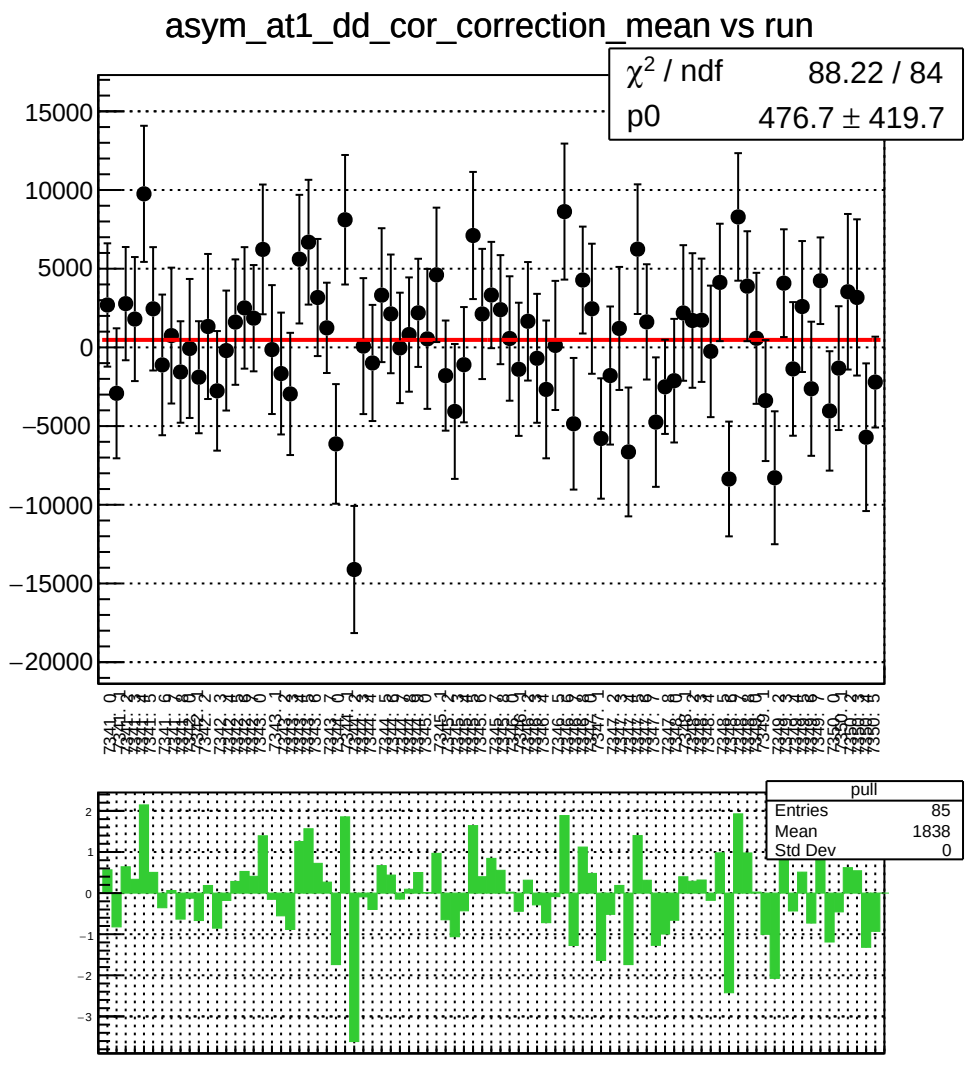

pull1D
Entries 85
Mean −0.001674
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

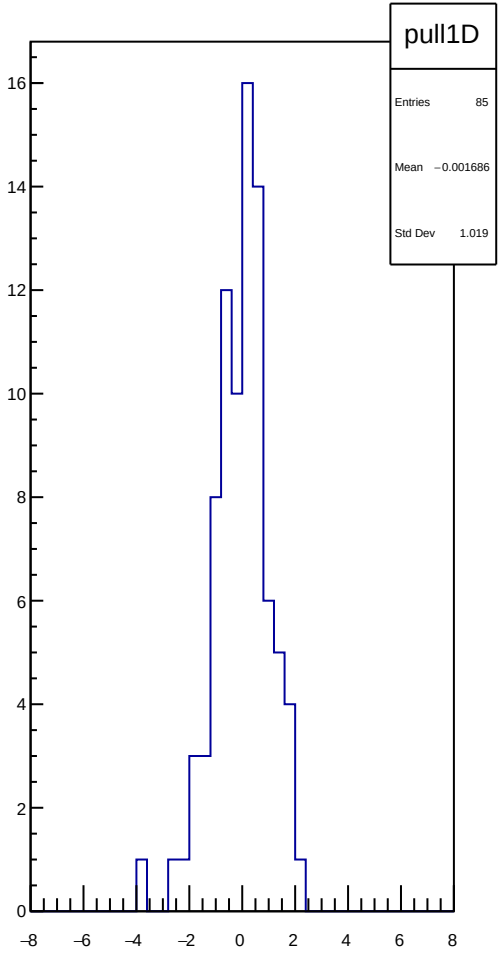

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 8744 / 84
p0 376.3 ± 0.2968
480
460
440
420
400
380
360
340
320

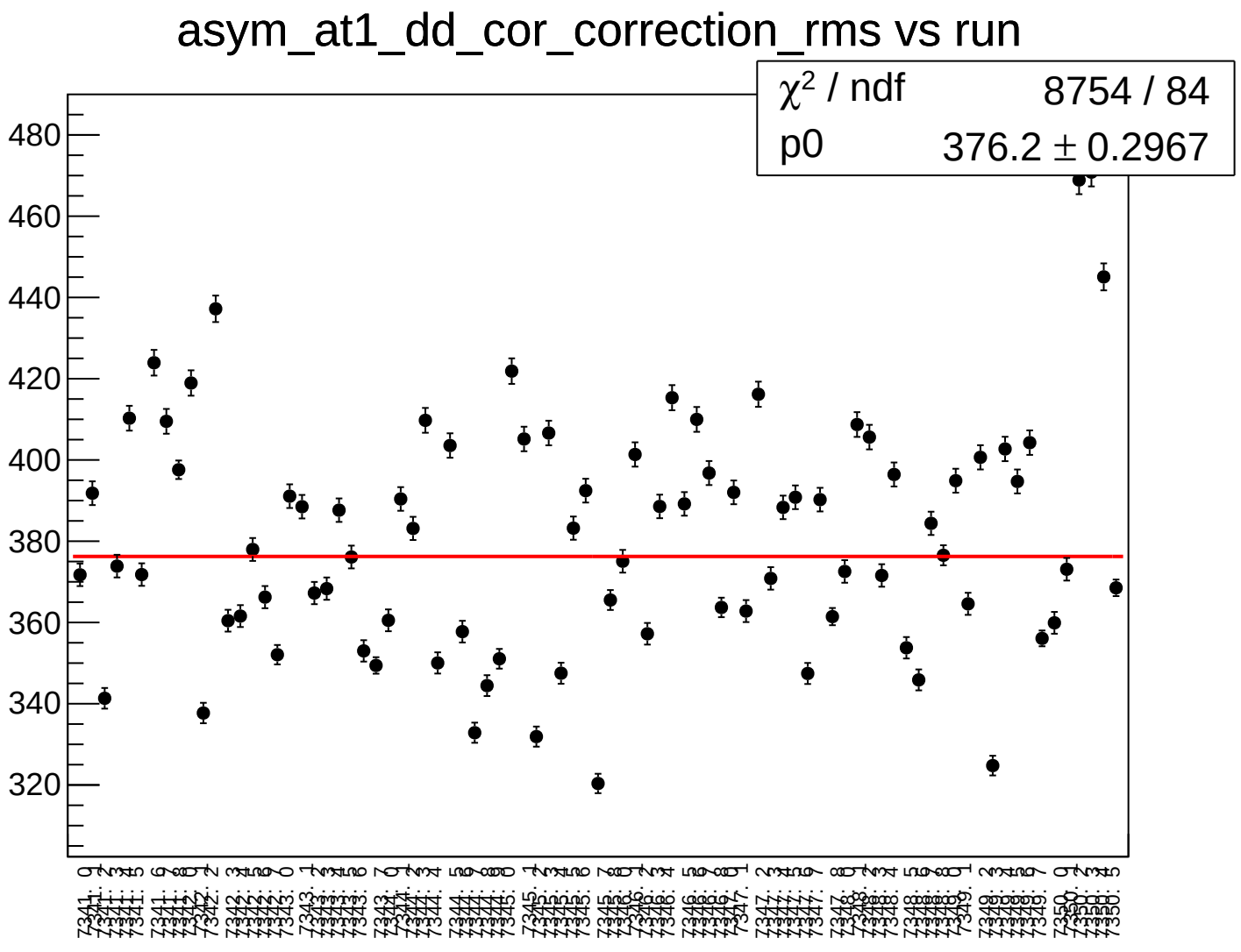

cor_asym_at1_dd_mean vs run
χ² / ndf 85.1 / 84
p0 −2220 ± 2019
pull
Entries 85
Mean 131.7
Std Dev 0

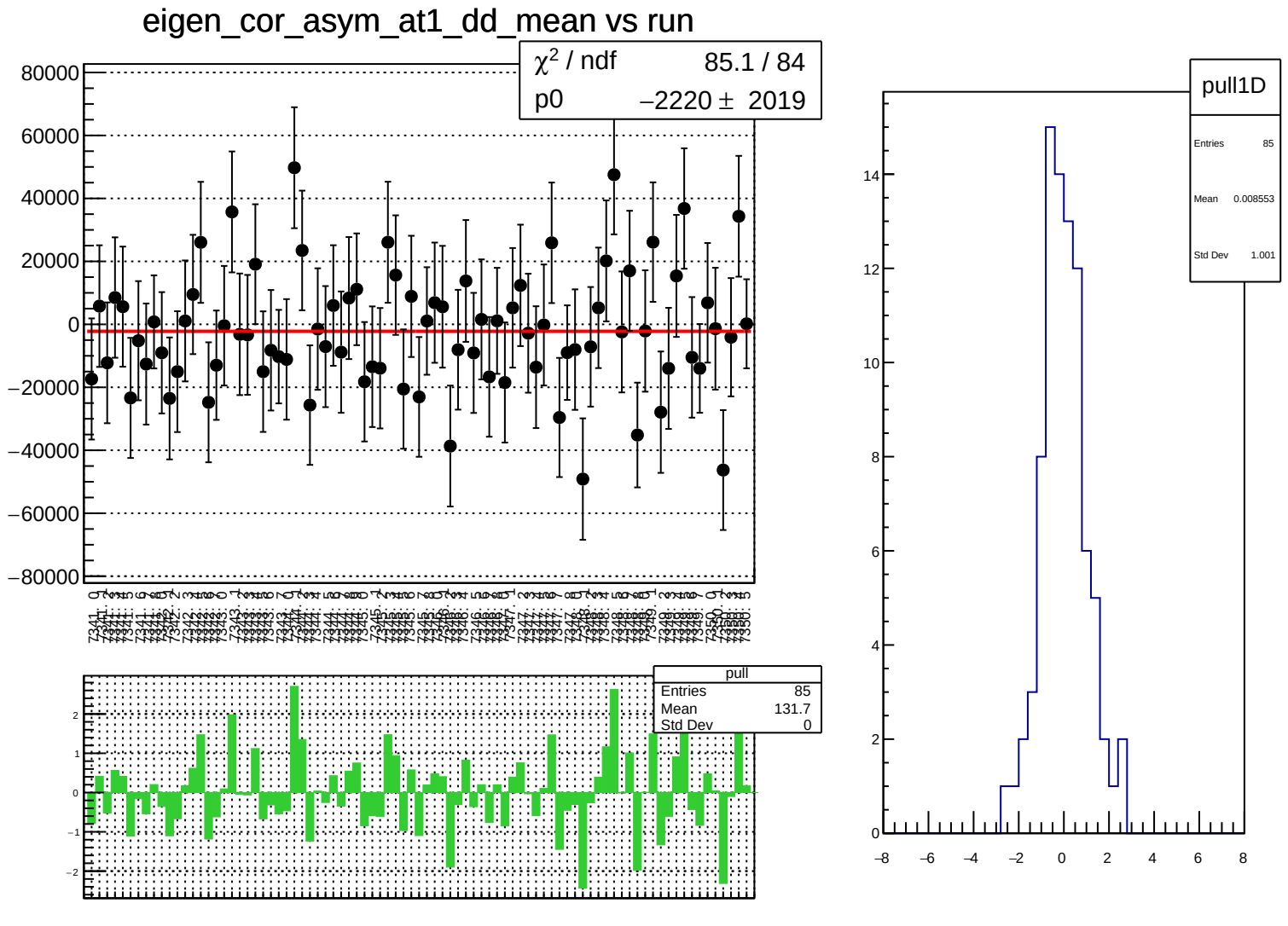

pull1D
Entries 85
Mean 0.008553
Std Dev 1.001

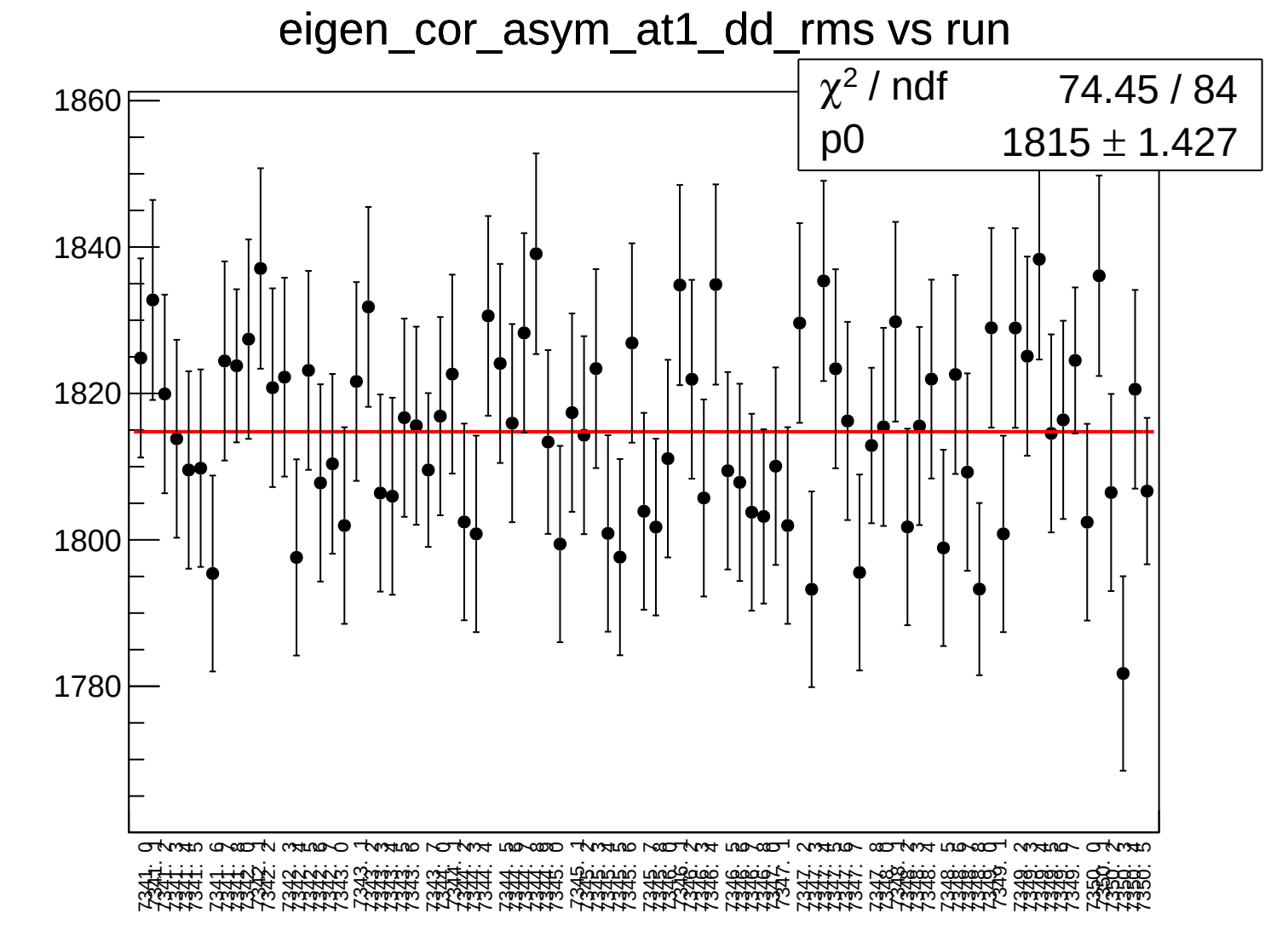

cor_asym_at1_dd_rms vs run
χ² / ndf 74.45 / 84
p0 1815 ± 1.427
1860
1840
1820
1800
1780

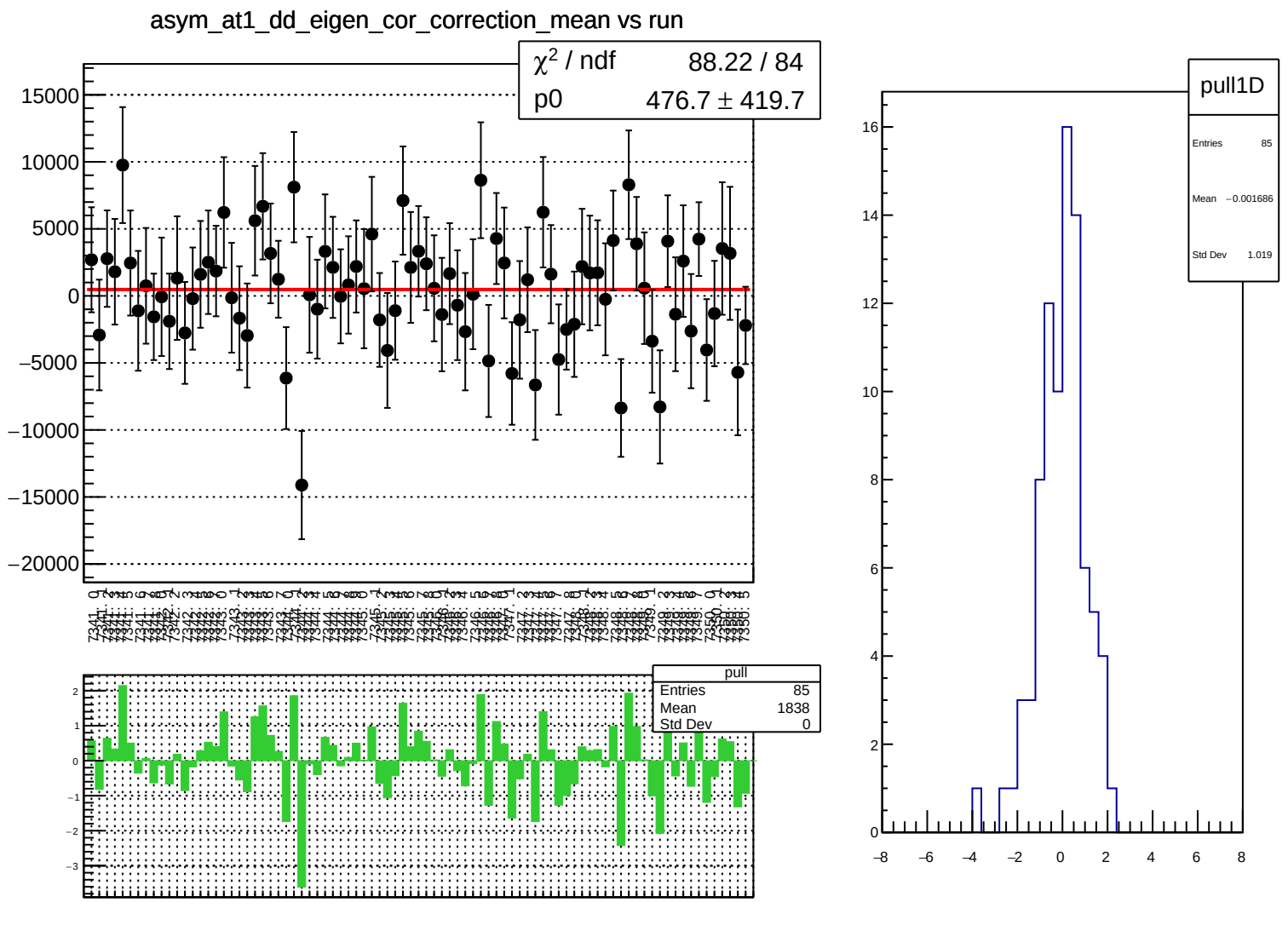

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 88.22 / 84
p0 476.7 ± 419.7
pull
Entries 85
Mean 1838
Std Dev 0

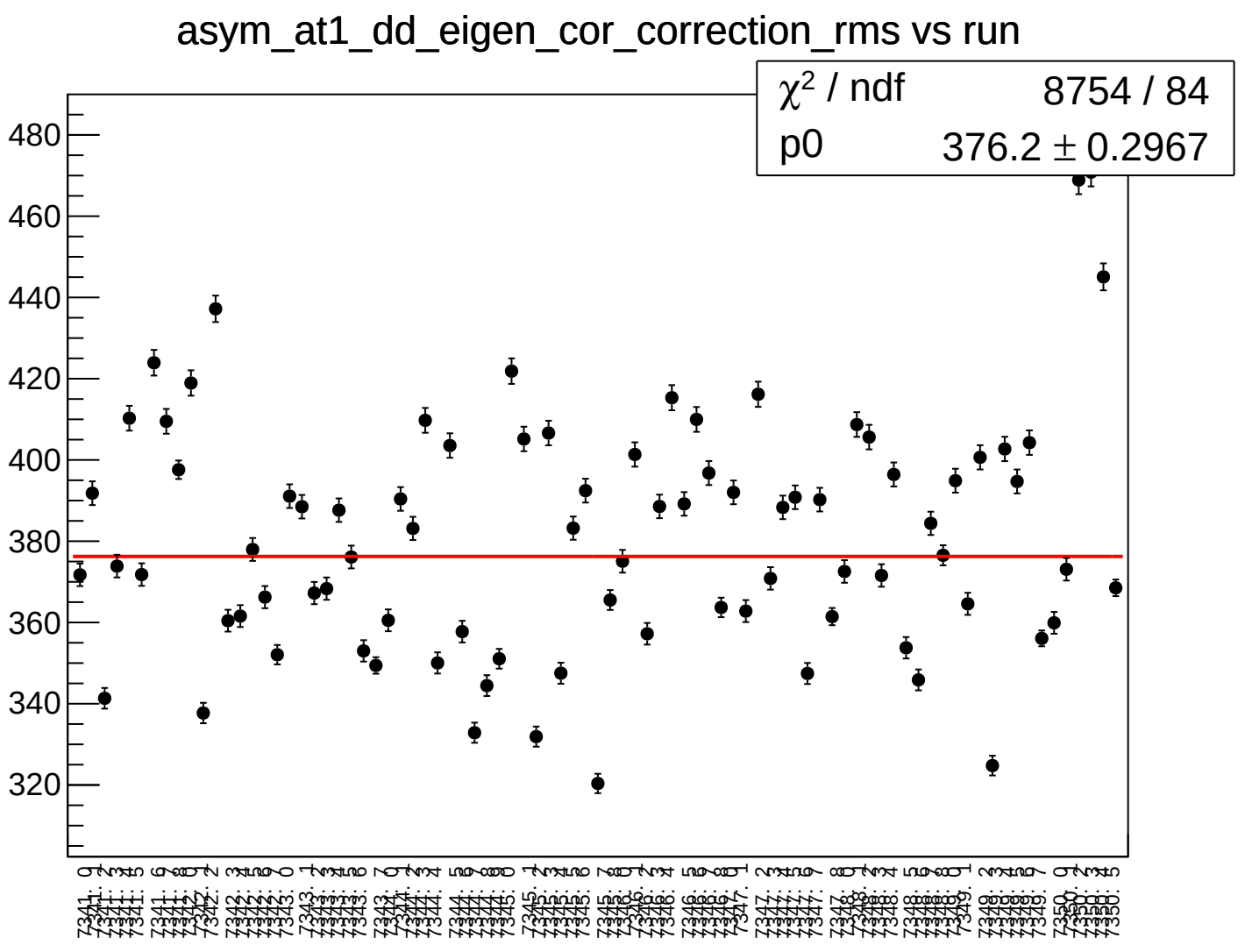

pull1D
Entries 85
Mean −0.001686
Std Dev 1.019

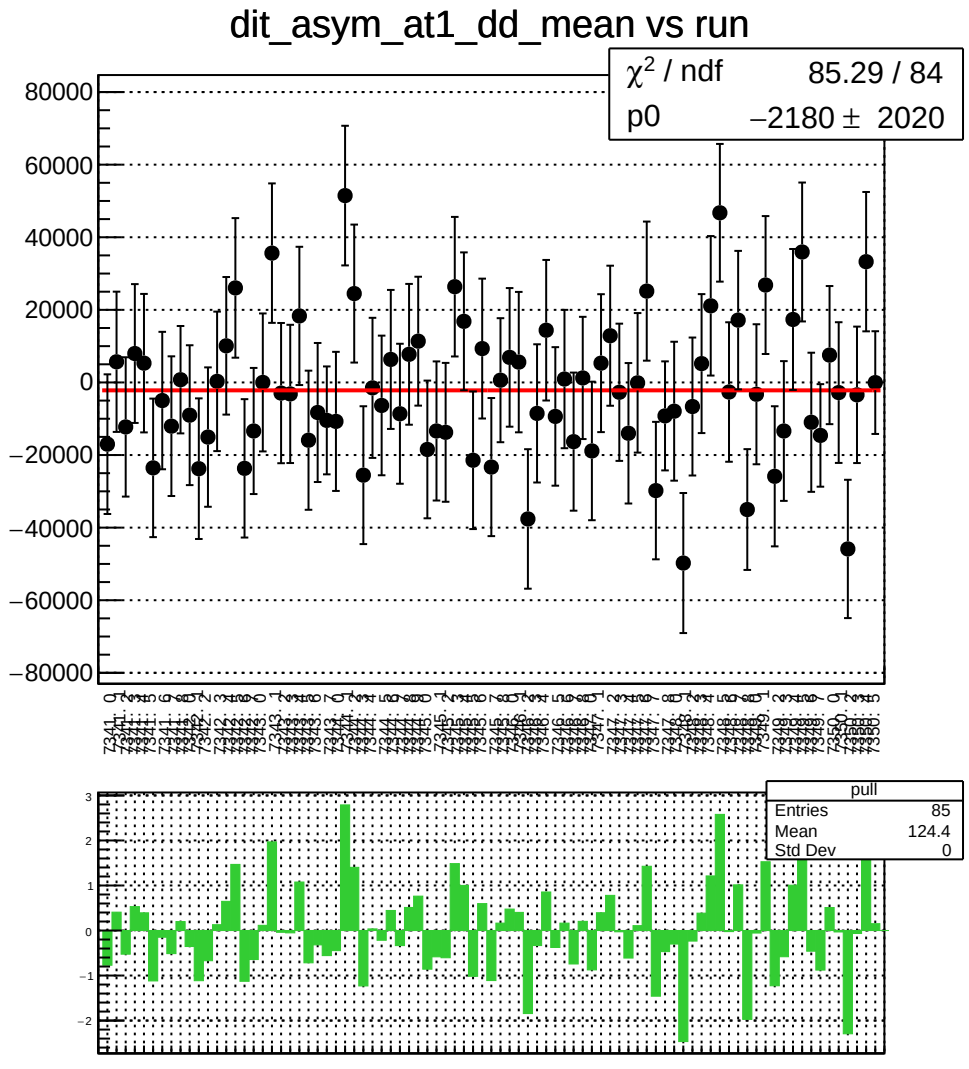

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 8754 / 84
p0 376.2 ± 0.2967
480
460
440
420
400
380
360
340
320

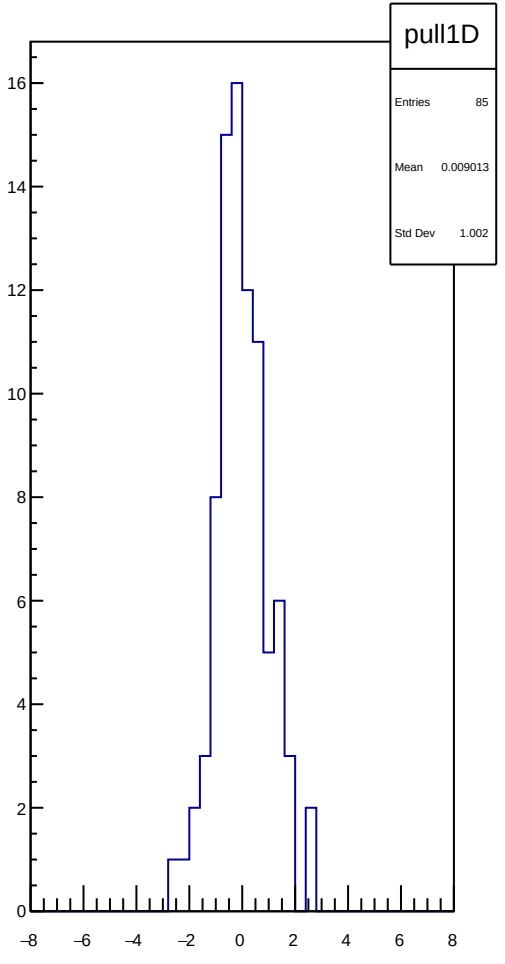

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 85.1 / 84
p0 −2220 ± 2019
pull
Entries 85
Mean 131.7
Std Dev 0
pull1D
Entries 85
Mean 0.008553
Std Dev 1.001

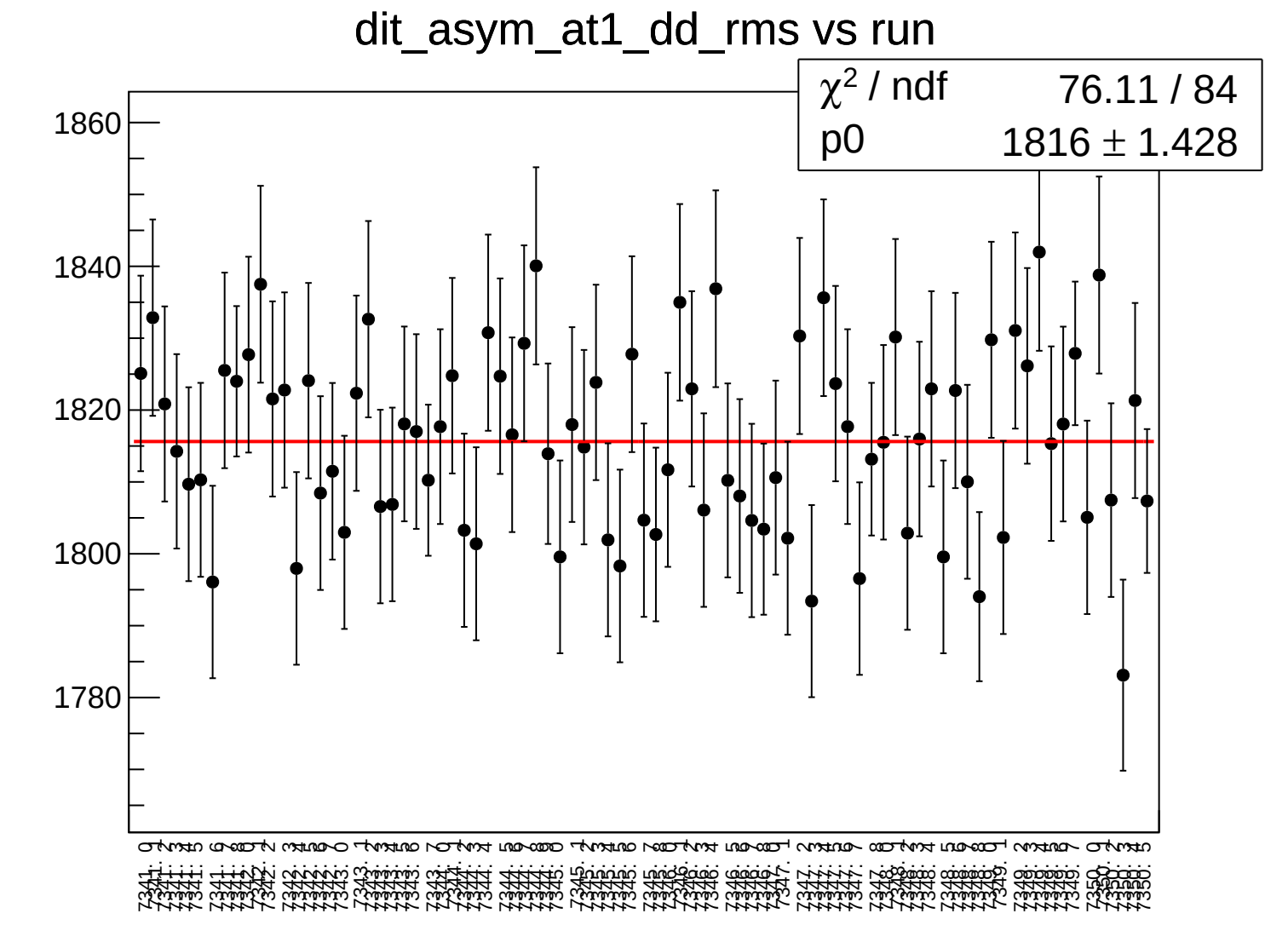

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 74.45 / 84
p0 1815 ± 1.427
1860
1840
1820
1800
1780

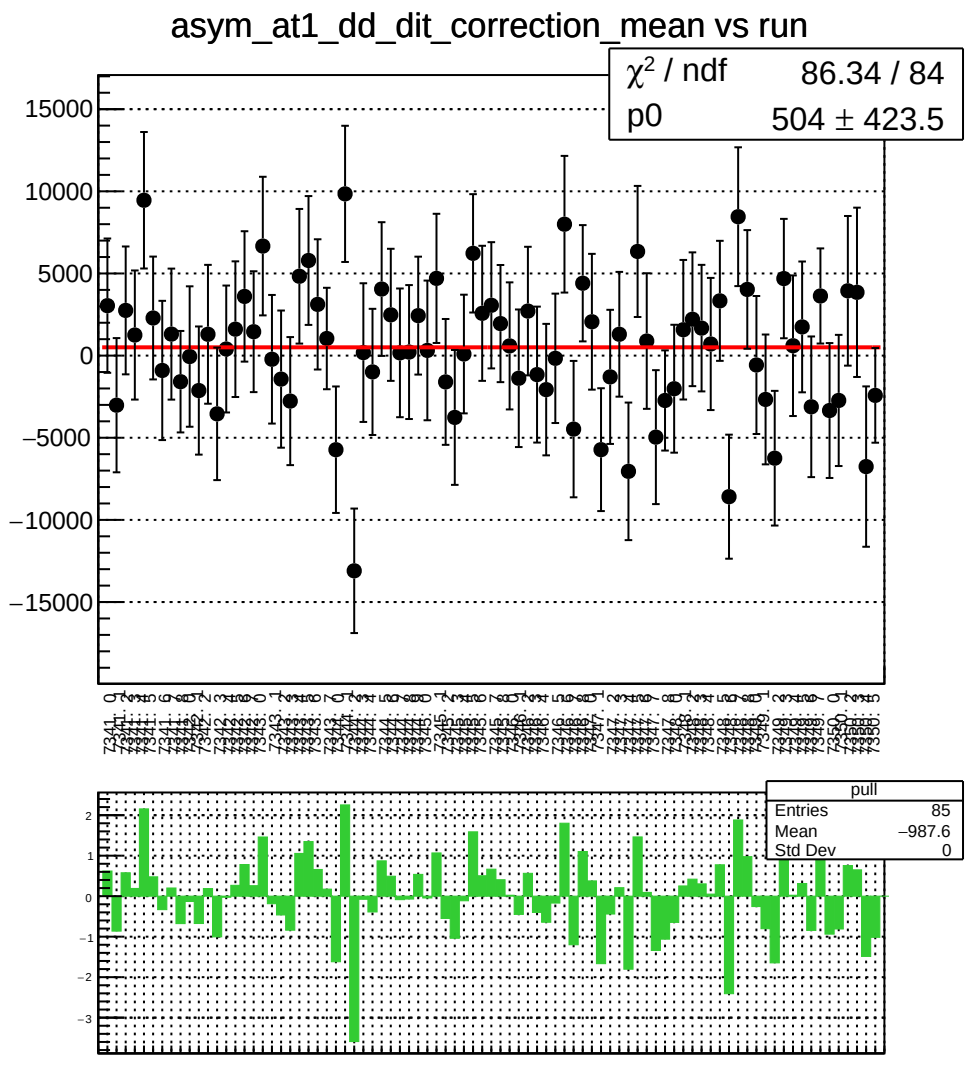

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.22 / 84
p0 476.7 ± 419.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean 1838
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.001686
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

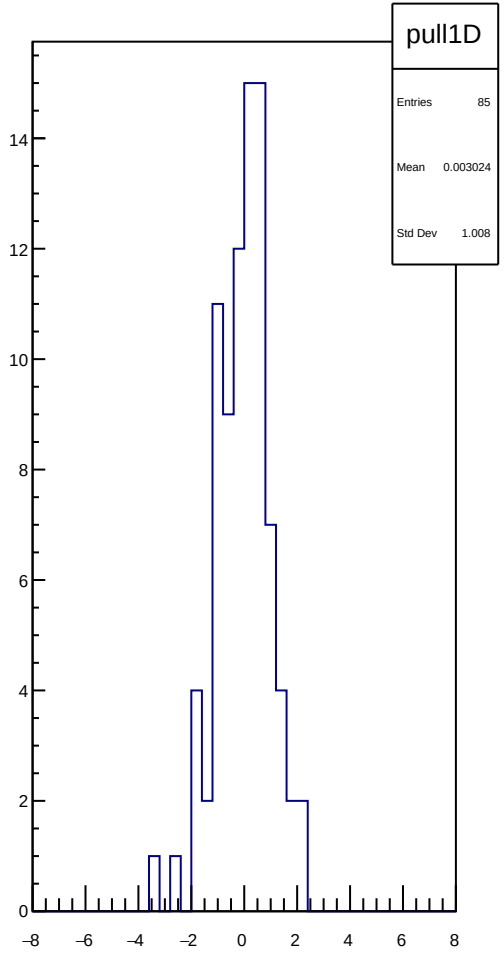

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 8754 / 84
p0 376.2 ± 0.2967
480
460
440
420
400
380
360
340
320

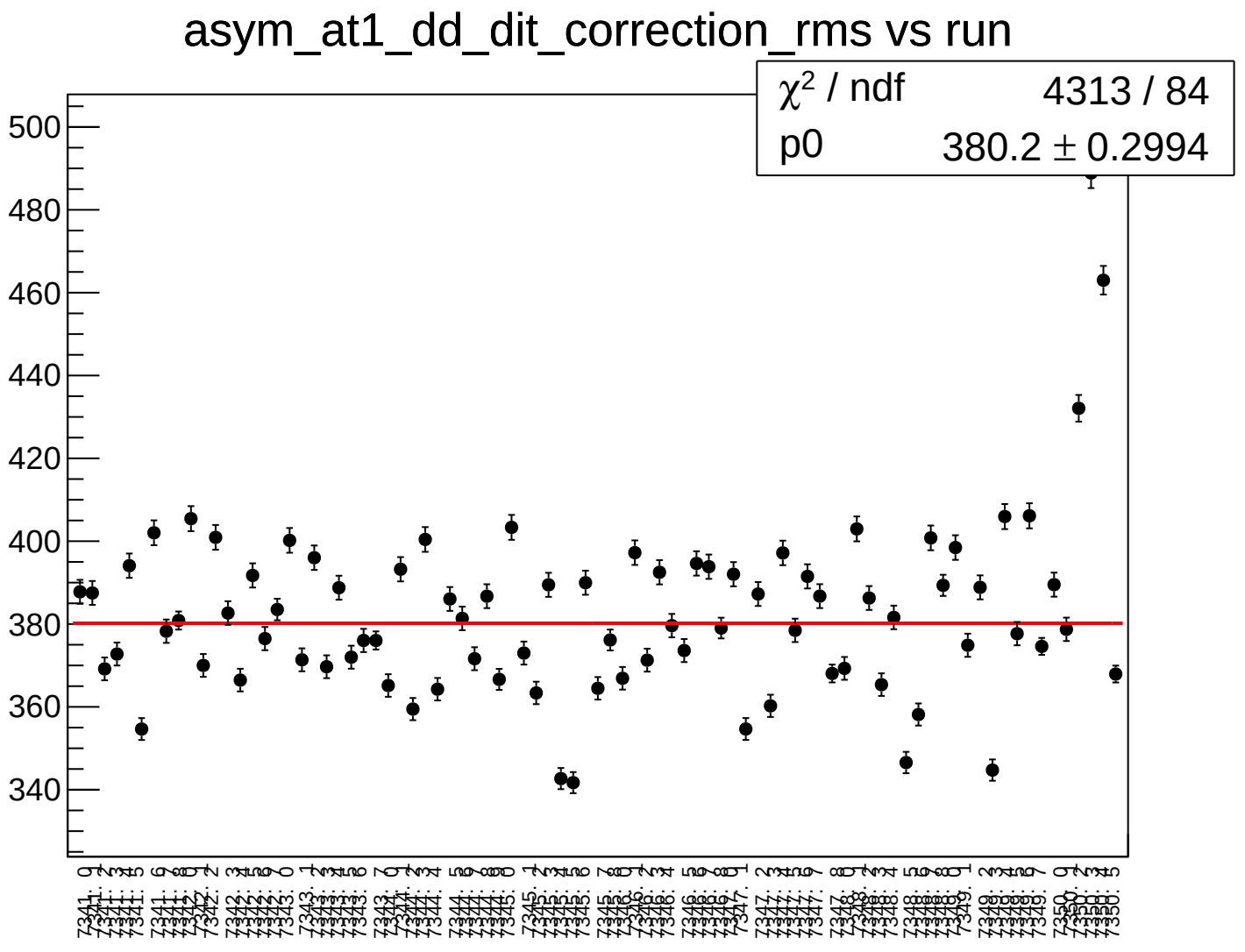

dit_asym_at1_dd_mean vs run
χ² / ndf 85.29 / 84
p0 −2180 ± 2020
pull
Entries 85
Mean 124.4
Std Dev 0

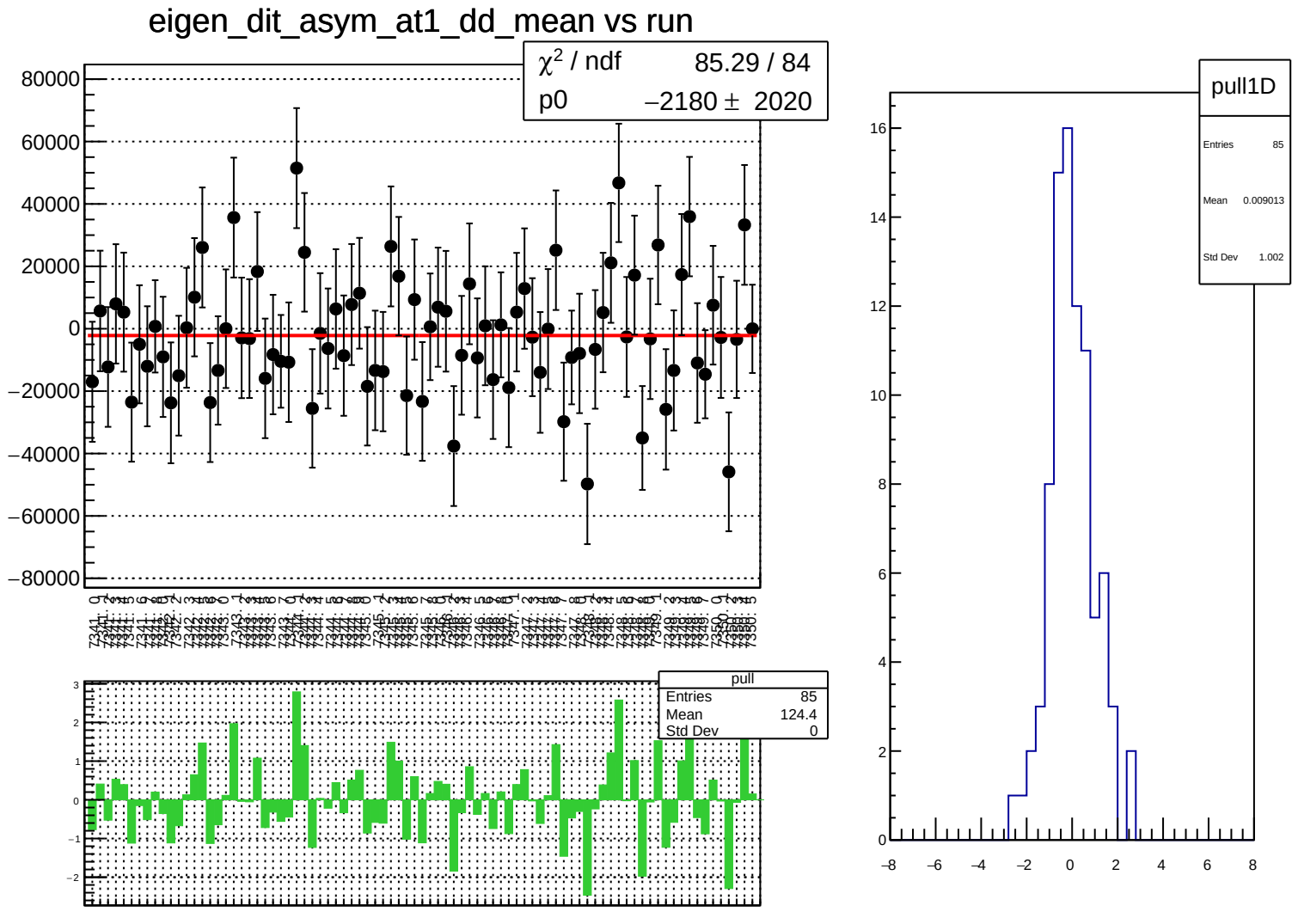

pull1D
Entries 85
Mean 0.009013
Std Dev 1.002

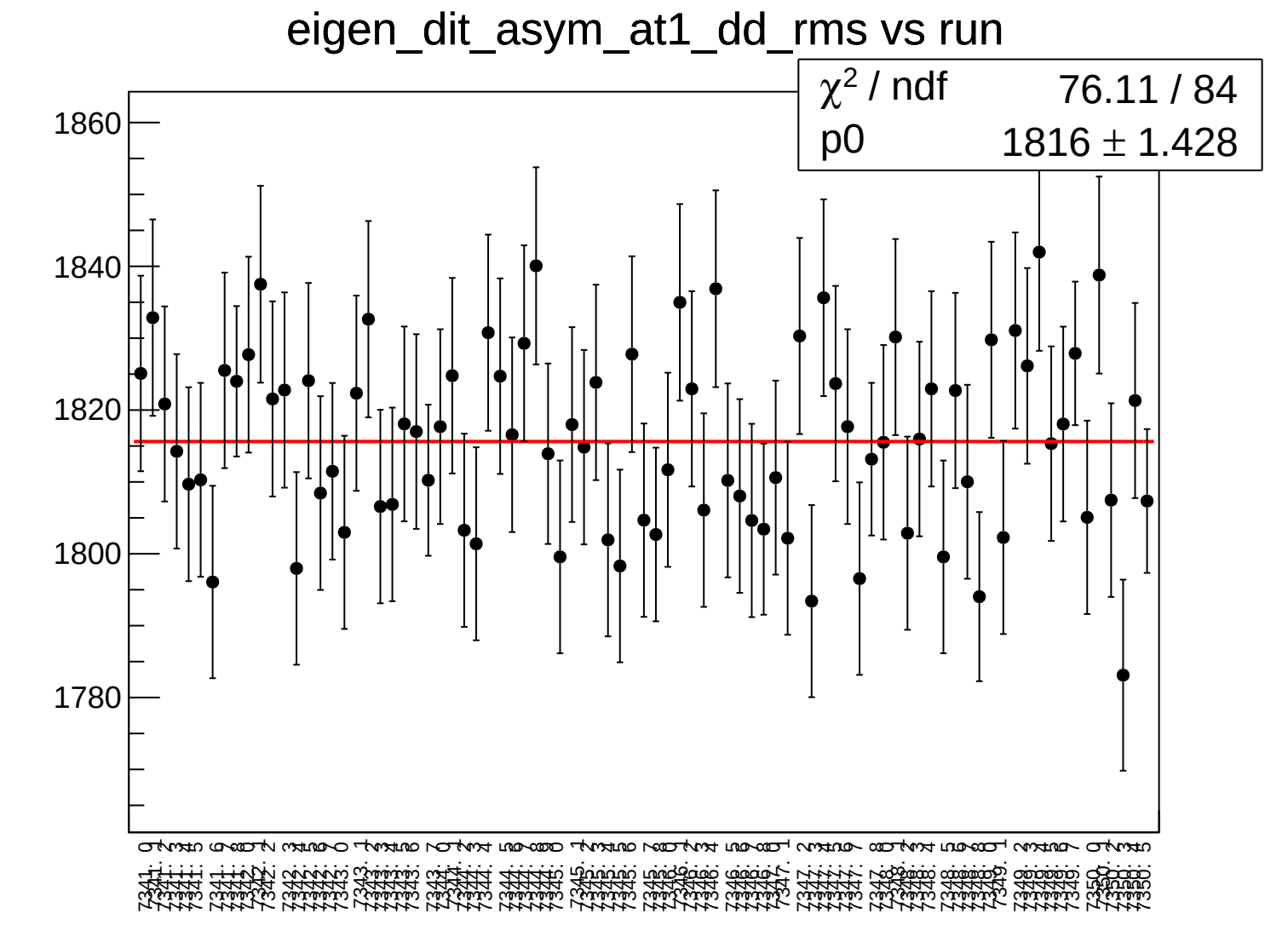

dit_asym_at1_dd_rms vs run
χ² / ndf 76.11 / 84
p0 1816 ± 1.428
1860
1840
1820
1800
1780

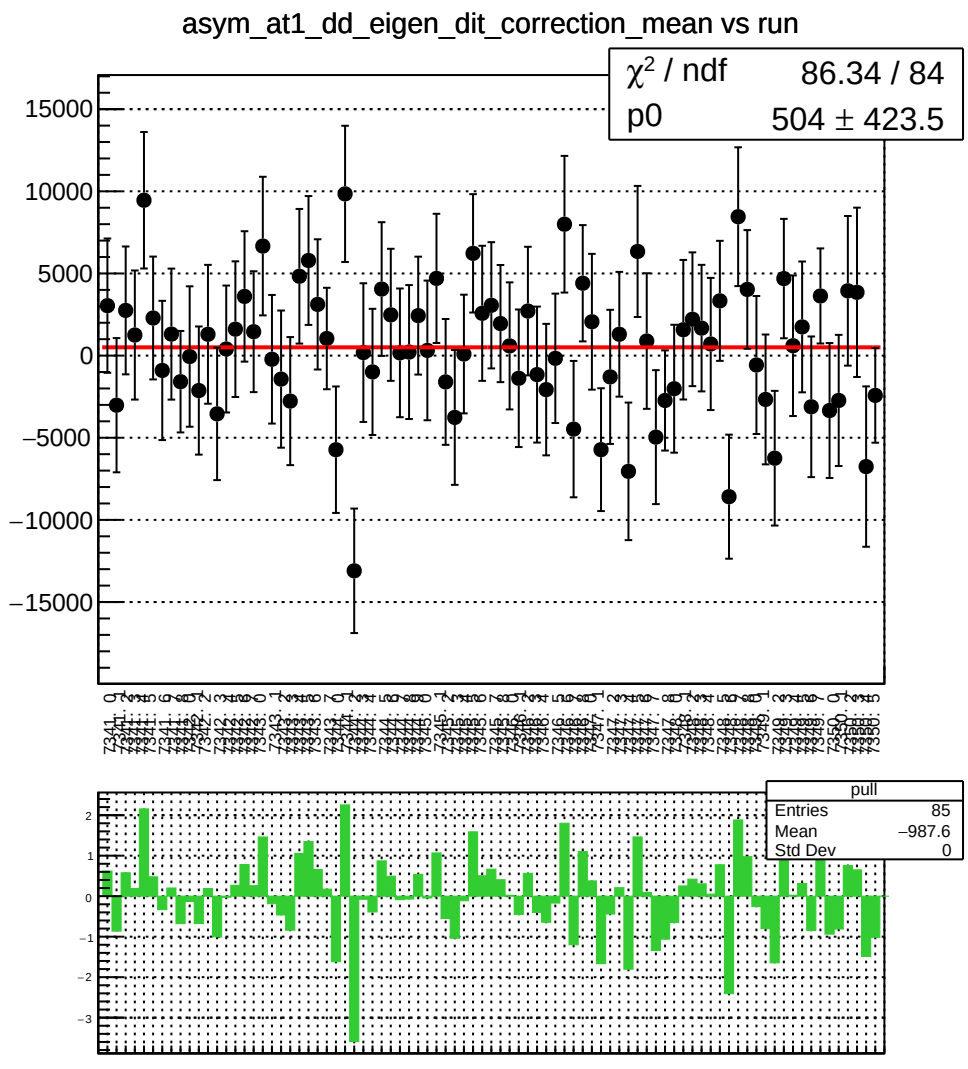

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 86.34 / 84
p0 504 ± 423.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −987.6
Std Dev 0
2
1
0
−1
−2
−3

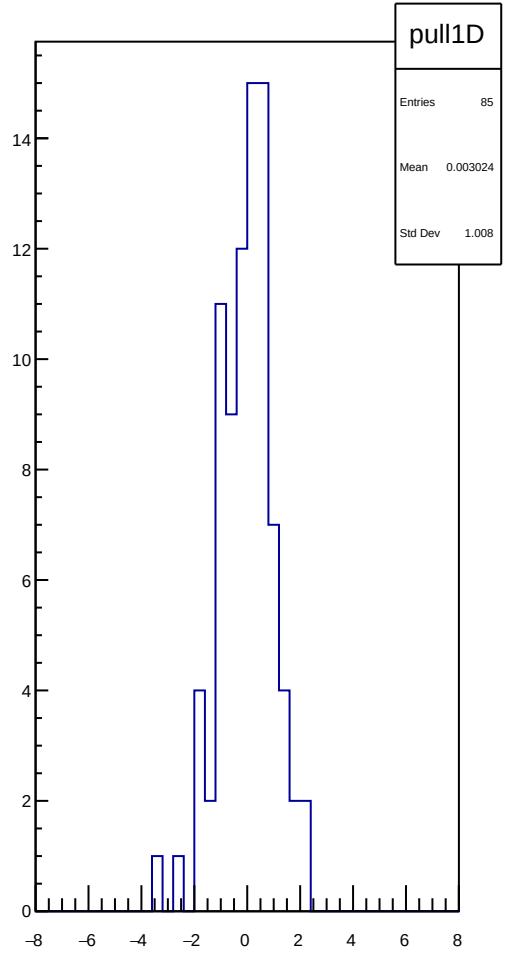

pull1D
Entries 85
Mean 0.003024
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

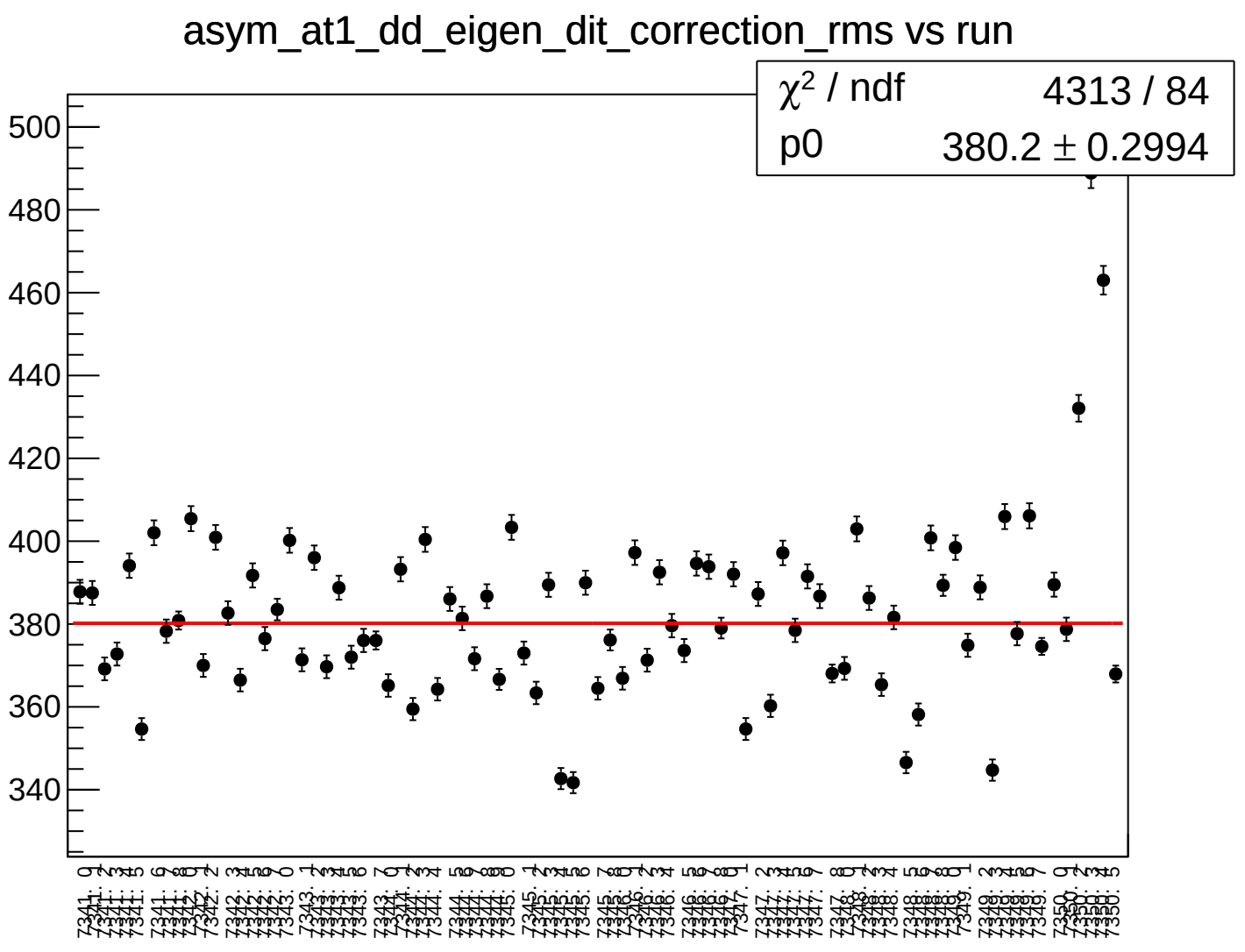

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 4313 / 84
p0 380.2 ± 0.2994
500
480
460
440
420
400
380
360
340

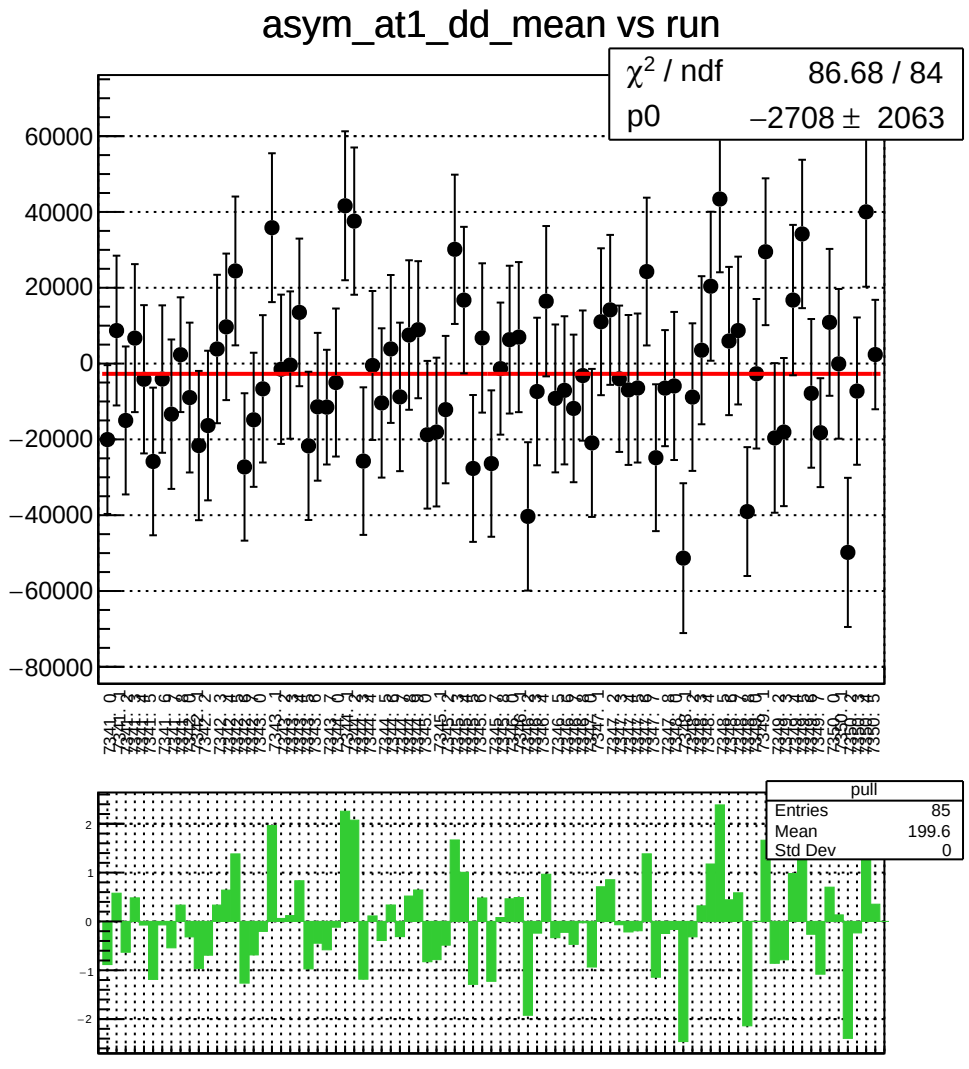

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 85.29 / 84
p0 −2180 ± 2020
pull
Entries 85
Mean 124.4
Std Dev 0
pull1D
Entries 85
Mean 0.009013
Std Dev 1.002

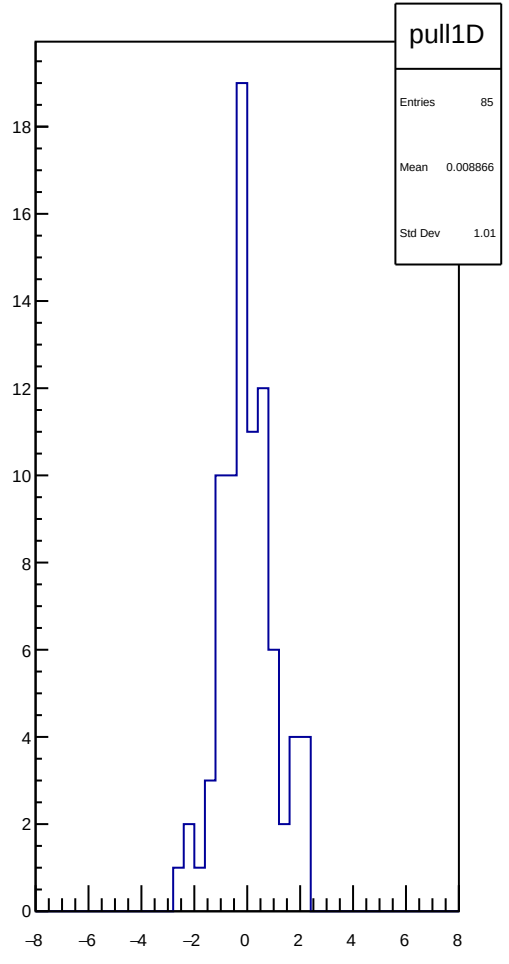

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 76.11 / 84
p0 1816 ± 1.428
1860
1840
1820
1800
1780

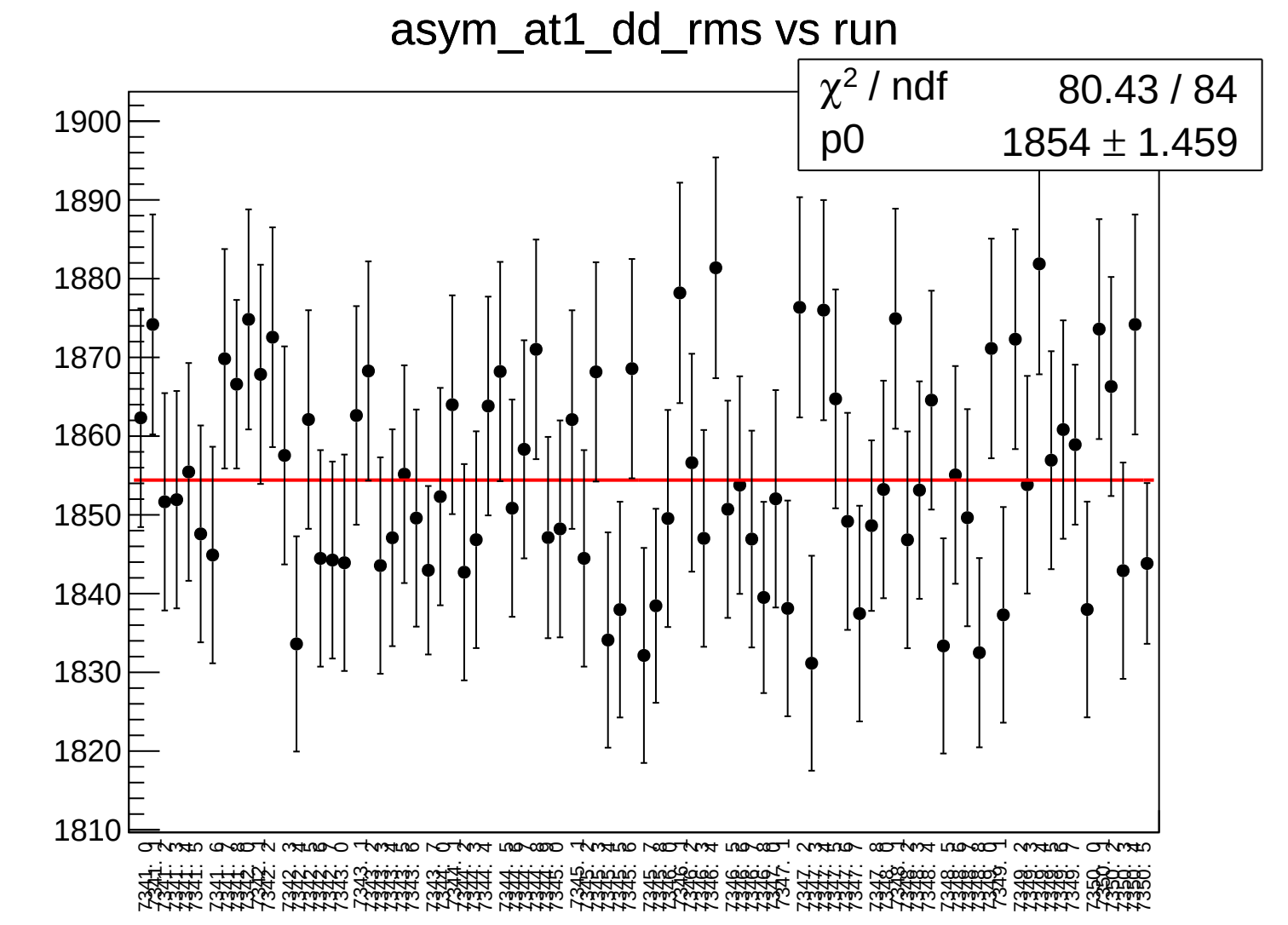

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.34 / 84
p0 504 ± 423.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −987.6
Std Dev 0
2
1
0
−1
−2
−3

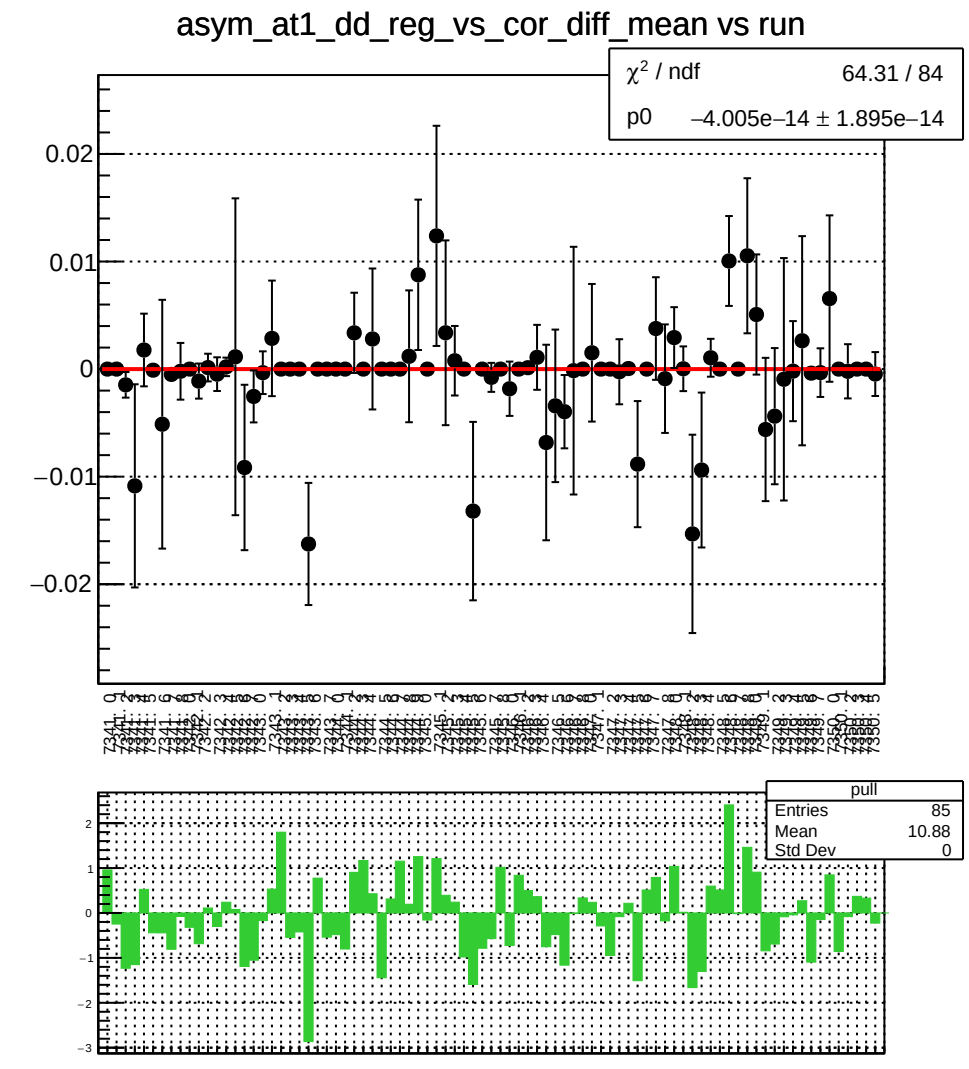

pull1D
Entries 85
Mean 0.003024
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

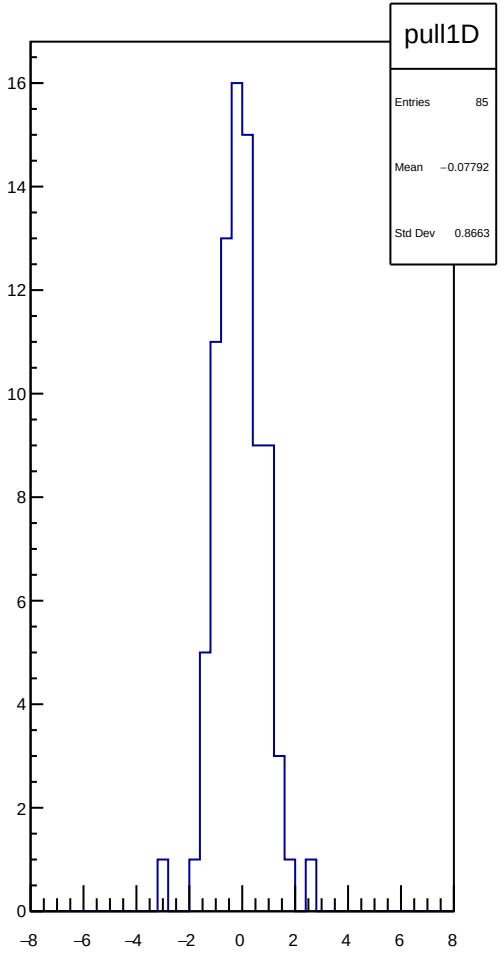

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4313 / 84
p0 380.2 ± 0.2994
500
480
460
440
420
400
380
360
340

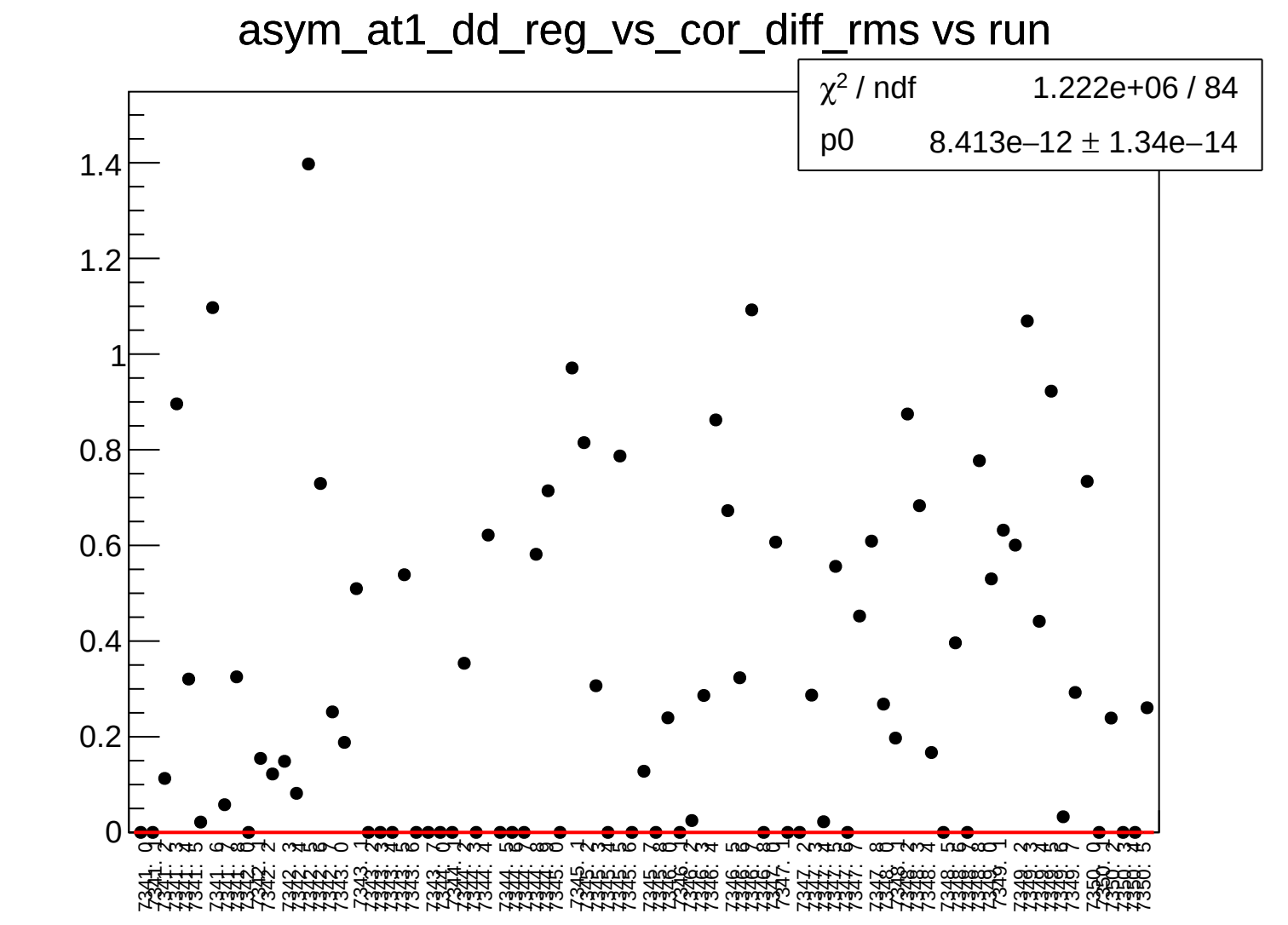

asym_at1_dd_mean vs run
χ^2 / ndf 86.68 / 84
p0 −2708 ± 2063
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 199.6
Std Dev 0
2
1
0
−1
−2

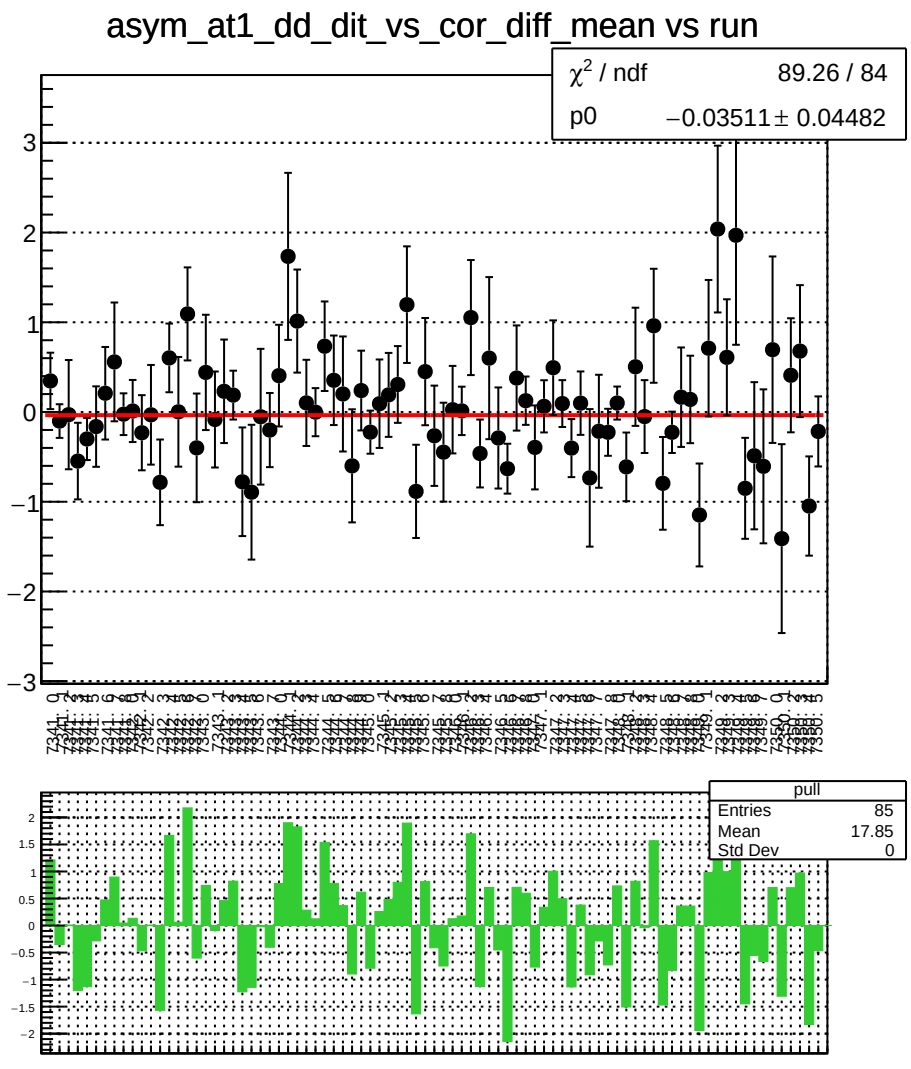

pull1D
Entries 85
Mean 0.008866
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

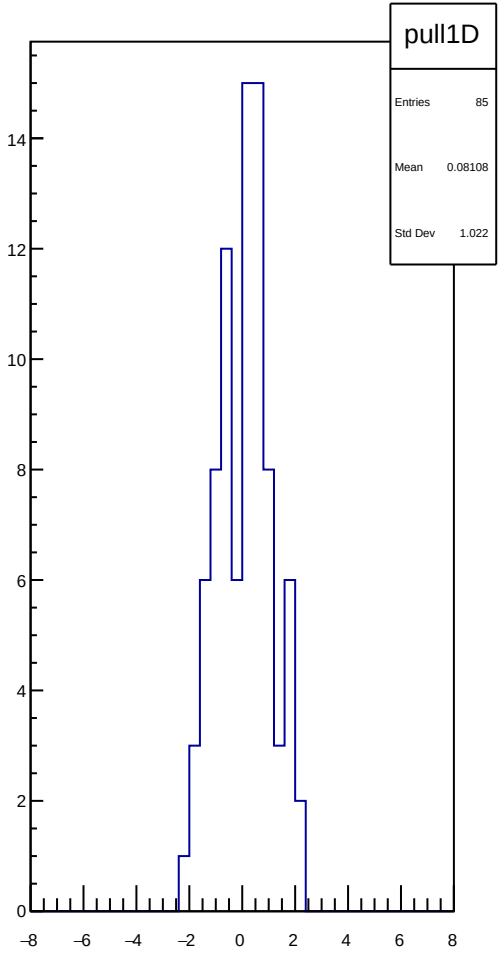

asym_at1_dd_rms vs run
χ² / ndf 80.43 / 84
p0 1854 ± 1.459
1900
1890
1880
1870
1860
1850
1840
1830
1820
1810

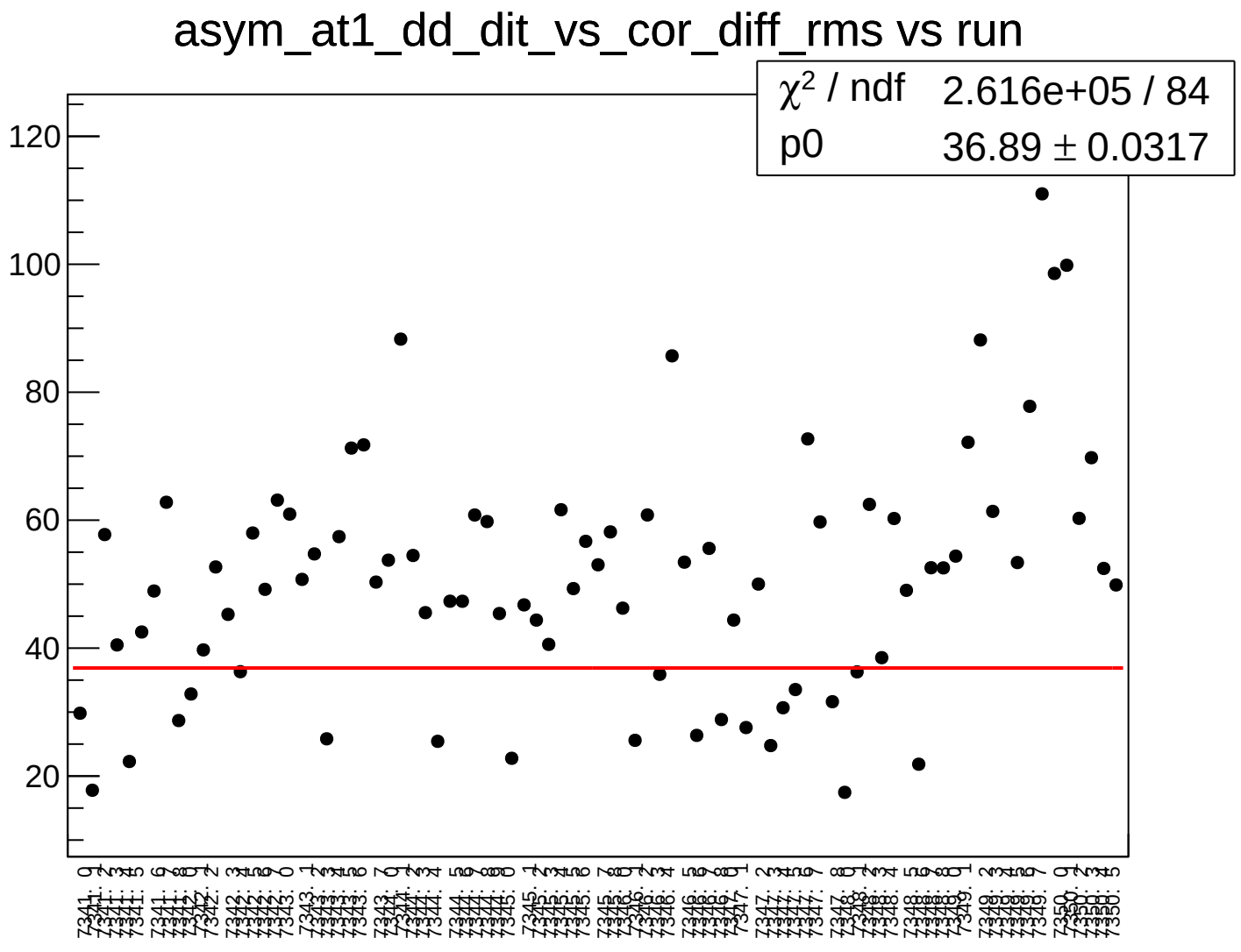

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.31 / 84
p0 −4.005e−14 ± 1.895e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean 10.88
Std Dev 0
2
1
0
−1
−2
−3

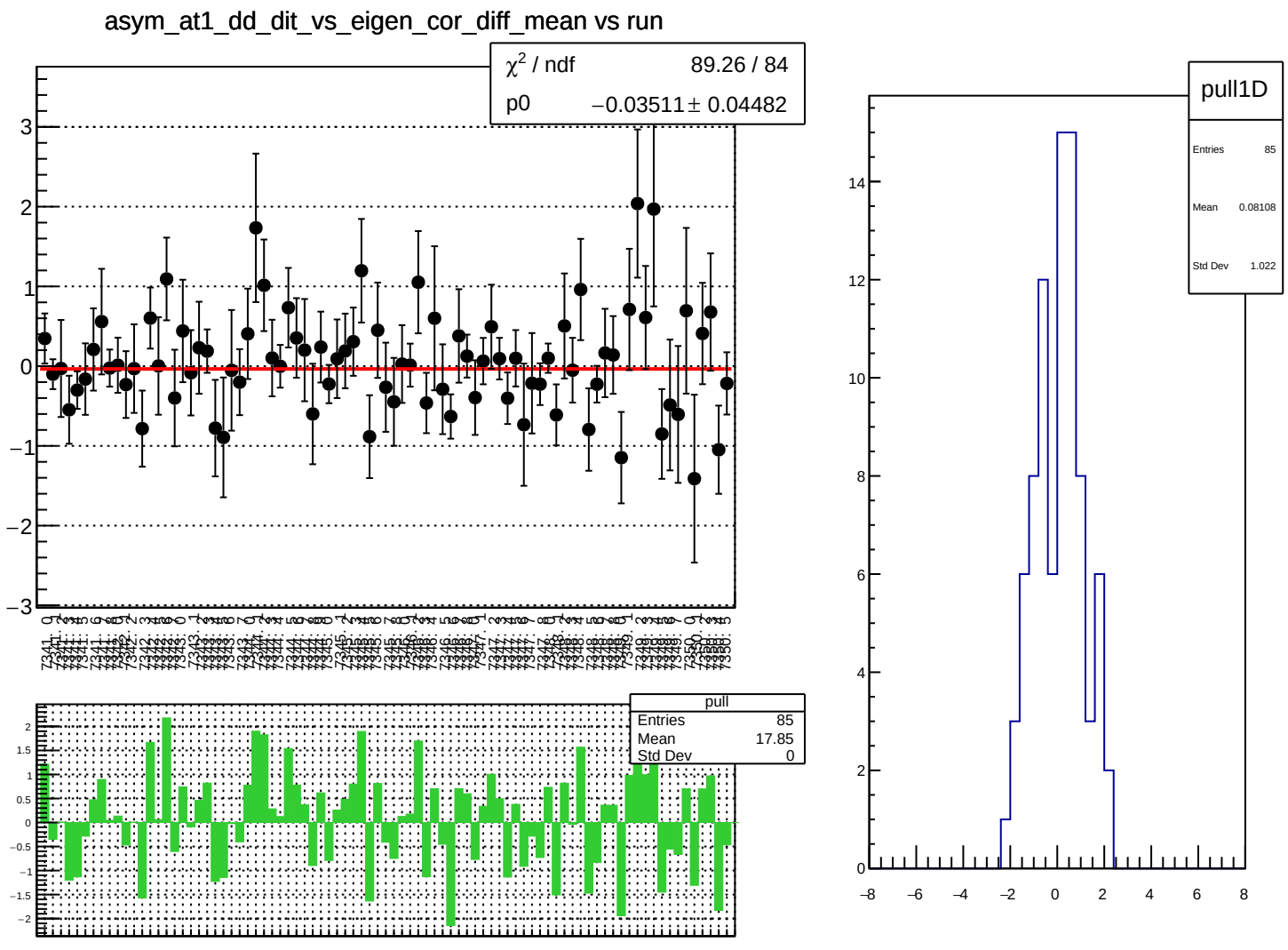

pull1D
Entries 85
Mean −0.07792
Std Dev 0.8663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

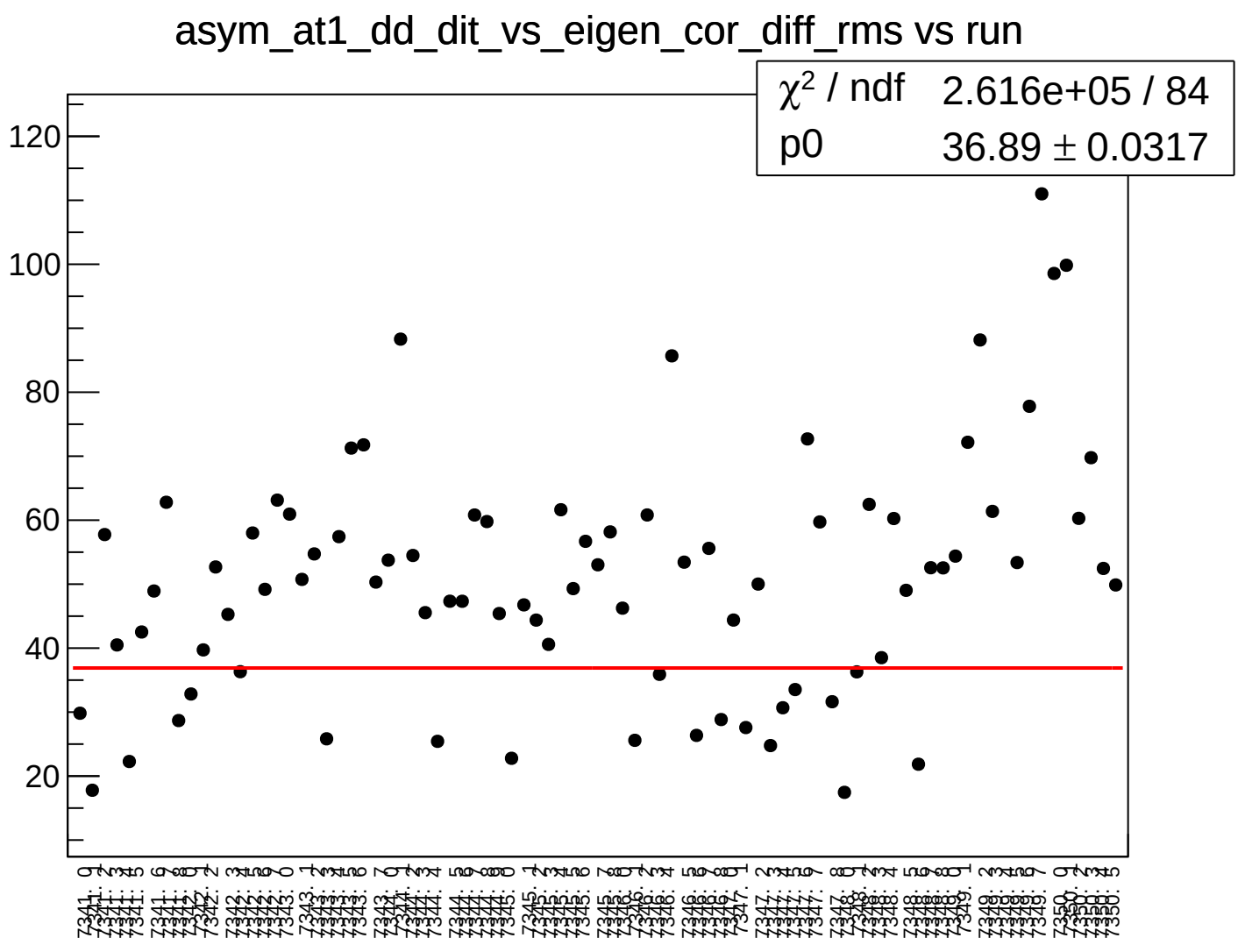

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.222e+06 / 84
p0 8.413e−12 ± 1.34e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

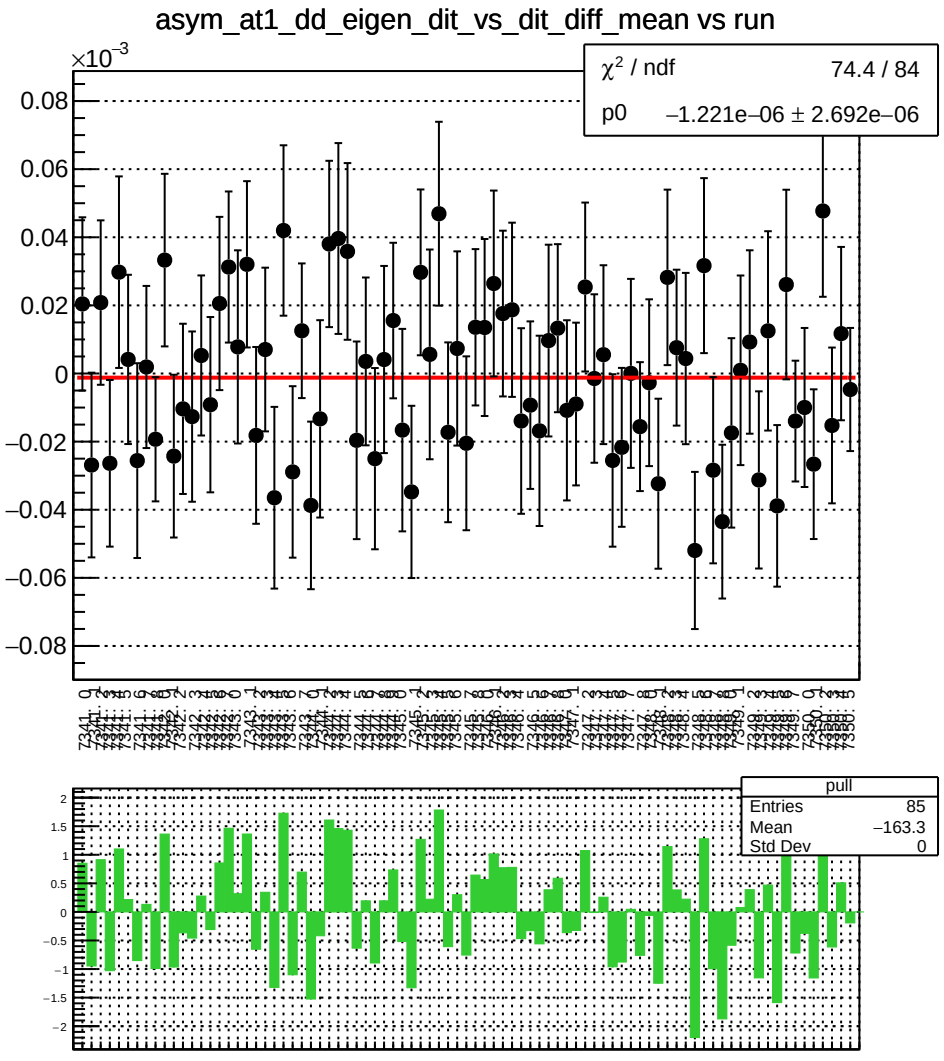

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.26 / 84
p0 −0.03511 ± 0.04482
pull
Entries 85
Mean 17.85
Std Dev 0

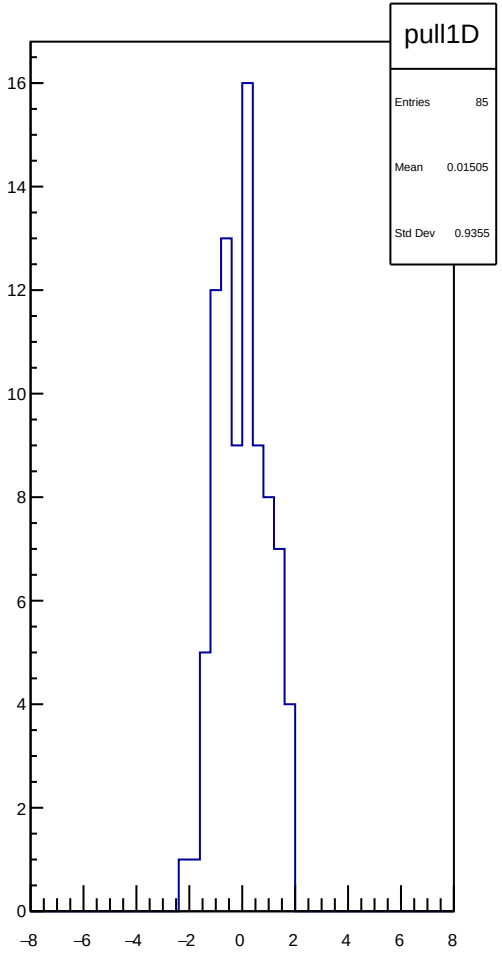

pull1D
Entries 85
Mean 0.08108
Std Dev 1.022

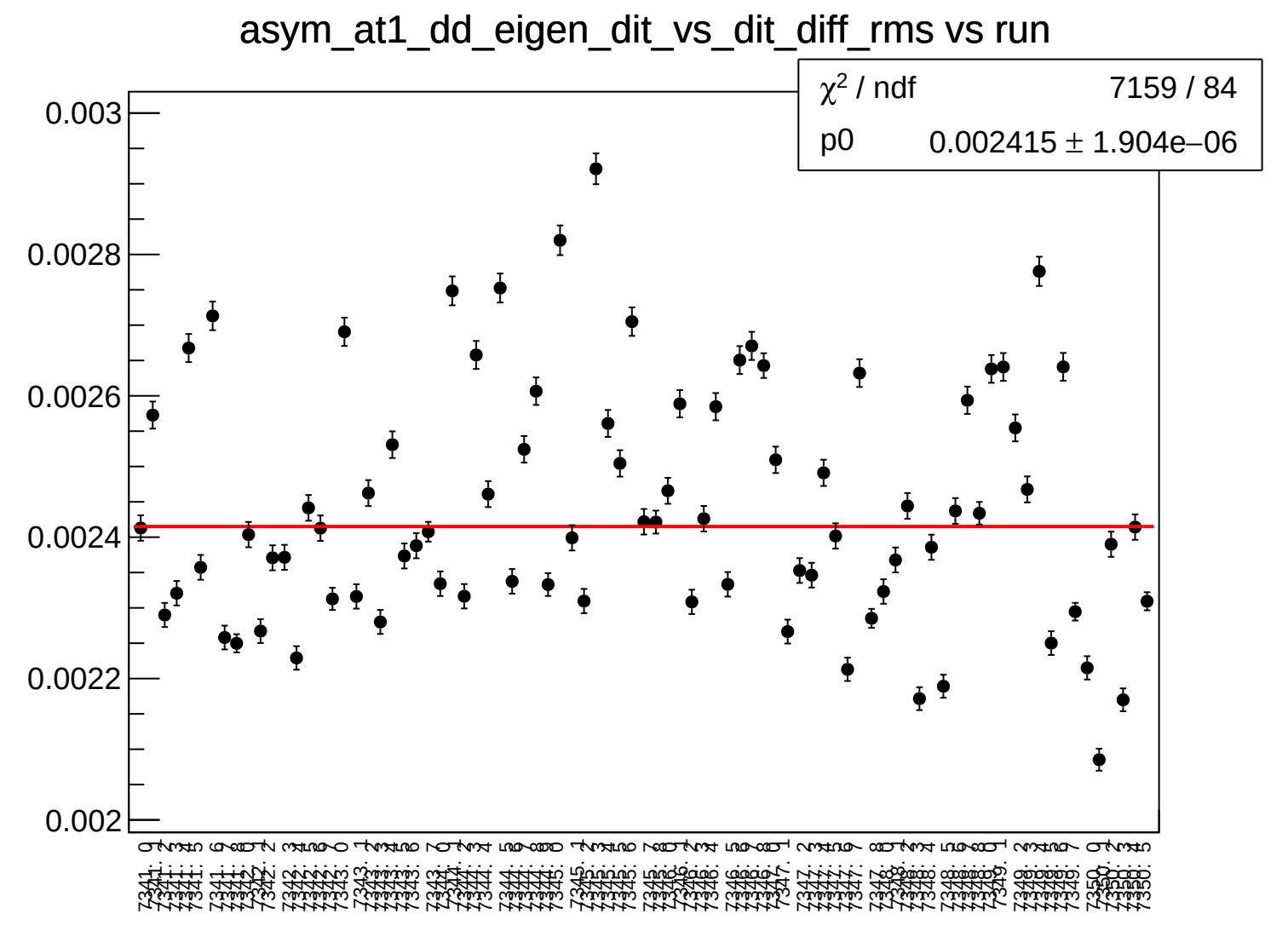

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.616e+05 / 84
p0 36.89 ± 0.0317
120
100
80
60
40
20

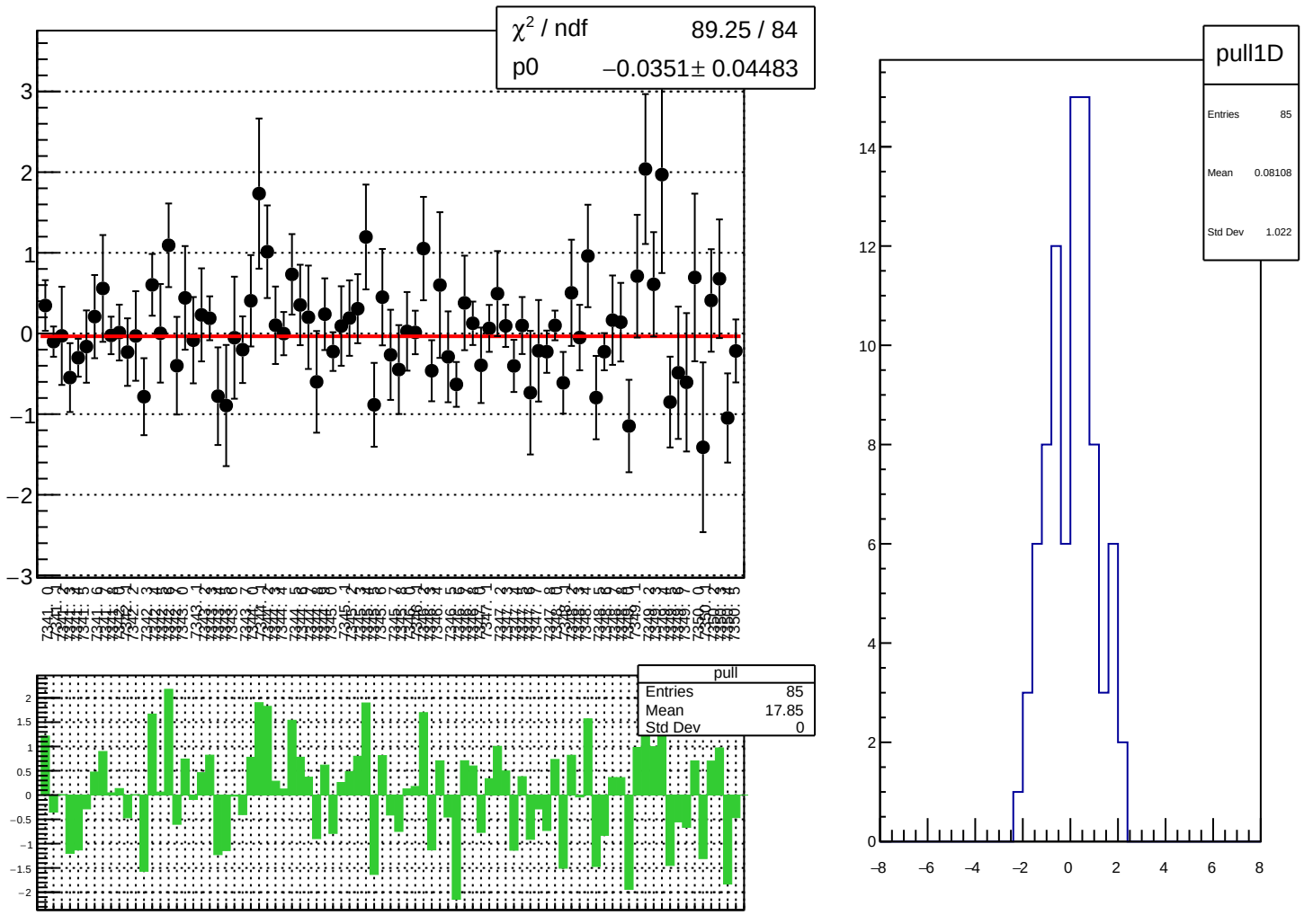

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.26 / 84
p0 −0.03511 ± 0.04482
pull
Entries 85
Mean 17.85
Std Dev 0
pull1D
Entries 85
Mean 0.08108
Std Dev 1.022

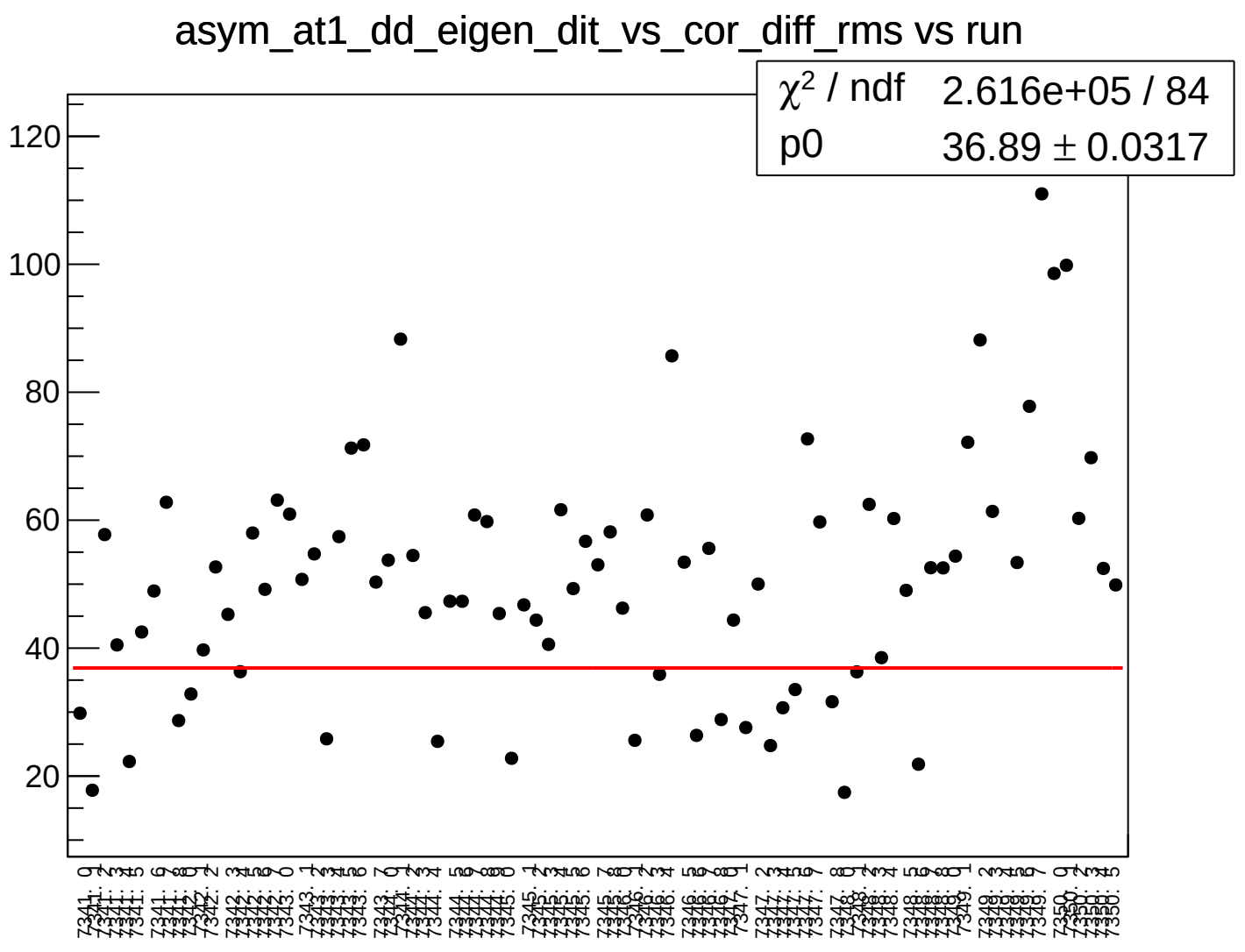

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.616e+05 / 84
p0 36.89 ± 0.0317
120
100
80
60
40
20

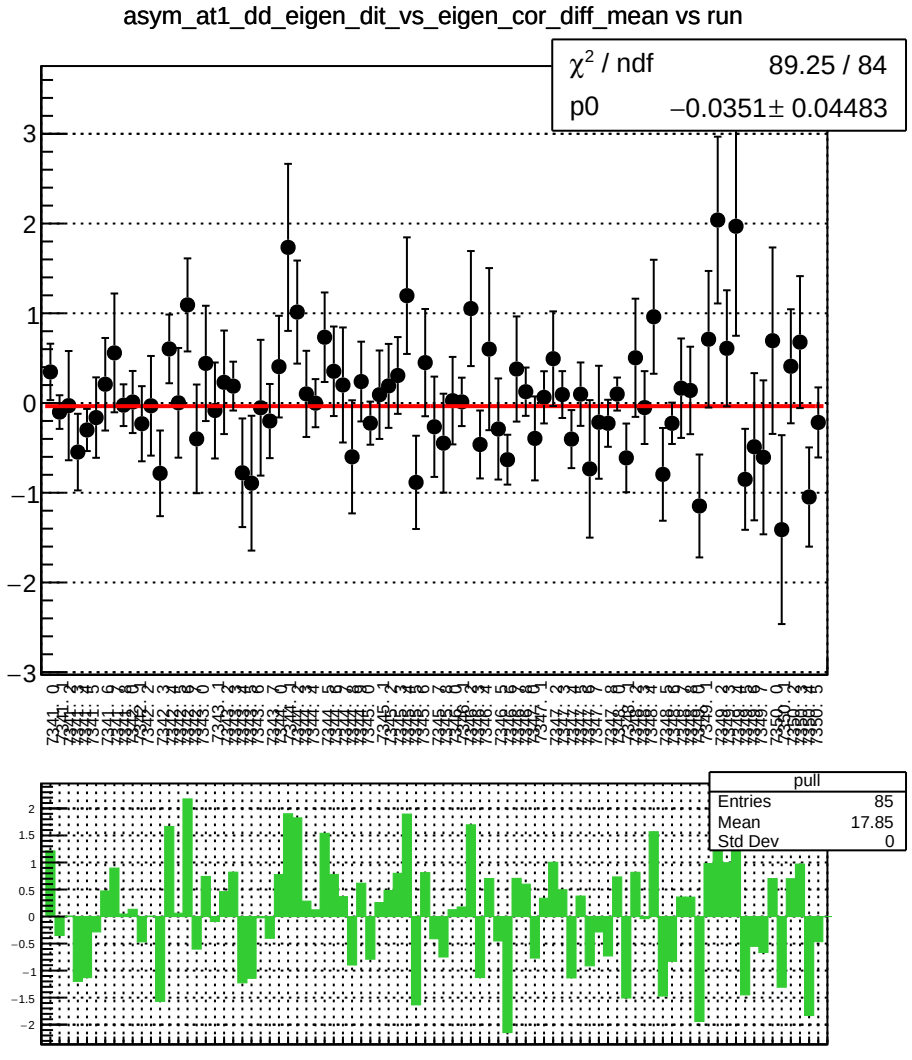

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.4 / 84
p0 −1.221e−06 ± 2.692e−06
pull
Entries 85
Mean −163.3
Std Dev 0

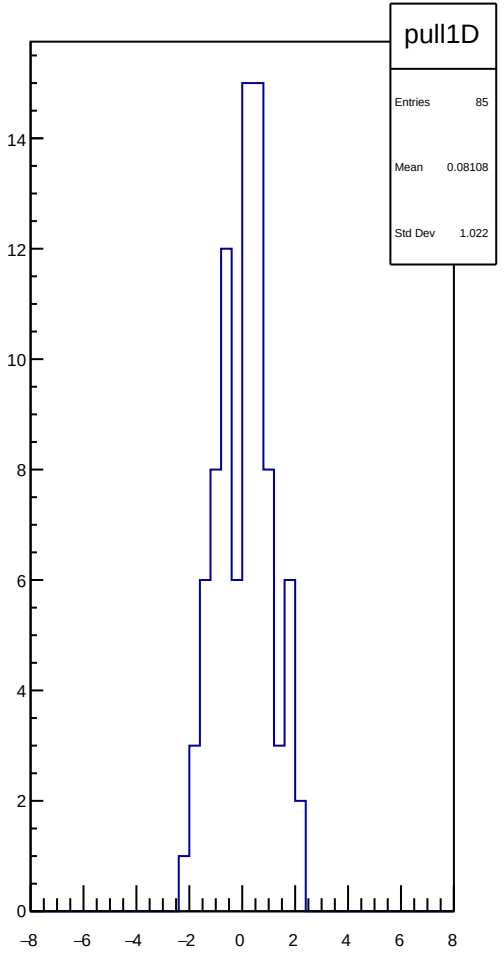

pull1D
Entries 85
Mean 0.01505
Std Dev 0.9355

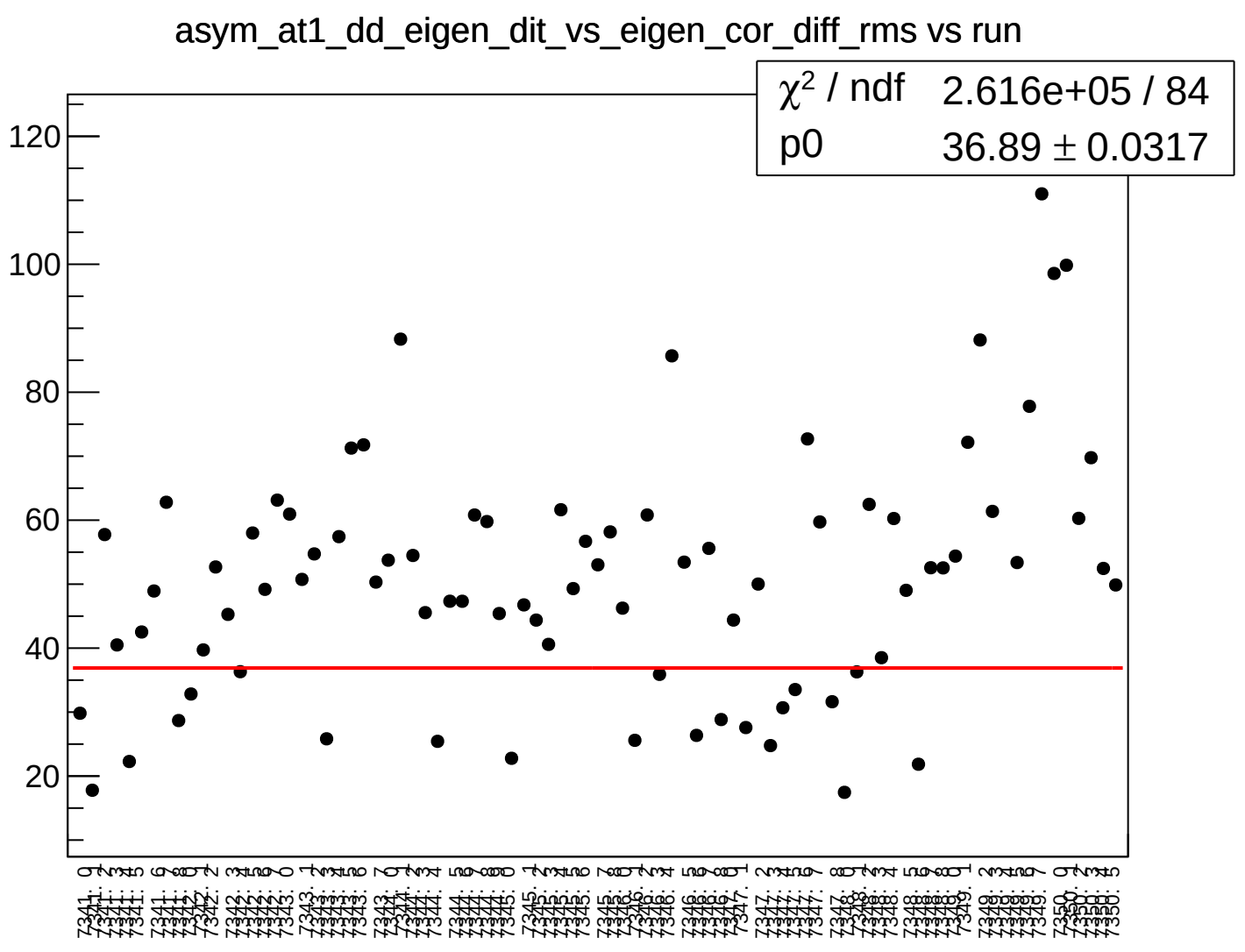

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7159 / 84
p0 0.002415 ± 1.904e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

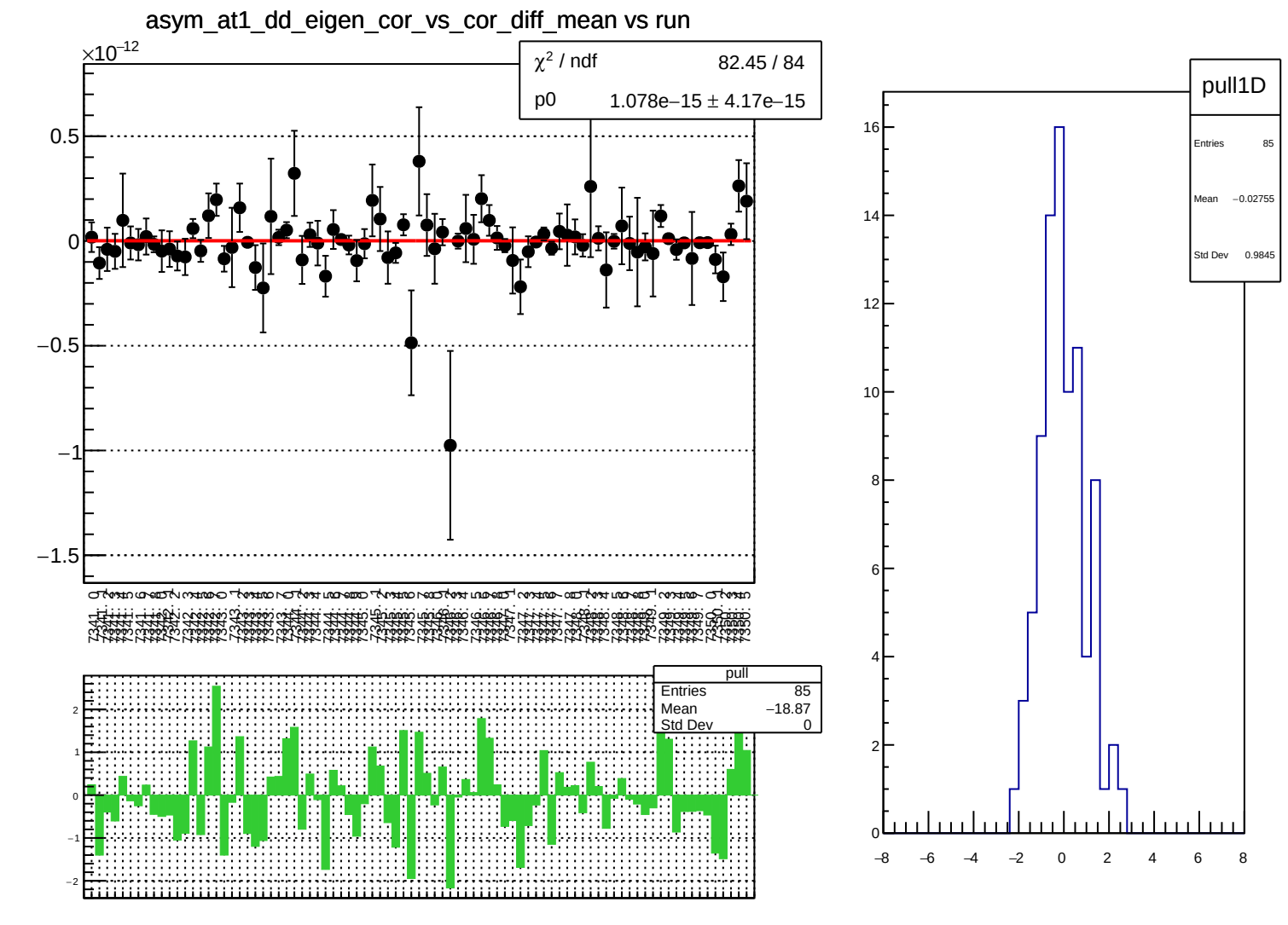

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.25 / 84
p0 −0.0351± 0.04483
pull
Entries 85
Mean 17.85
Std Dev 0
pull1D
Entries 85
Mean 0.08108
Std Dev 1.022

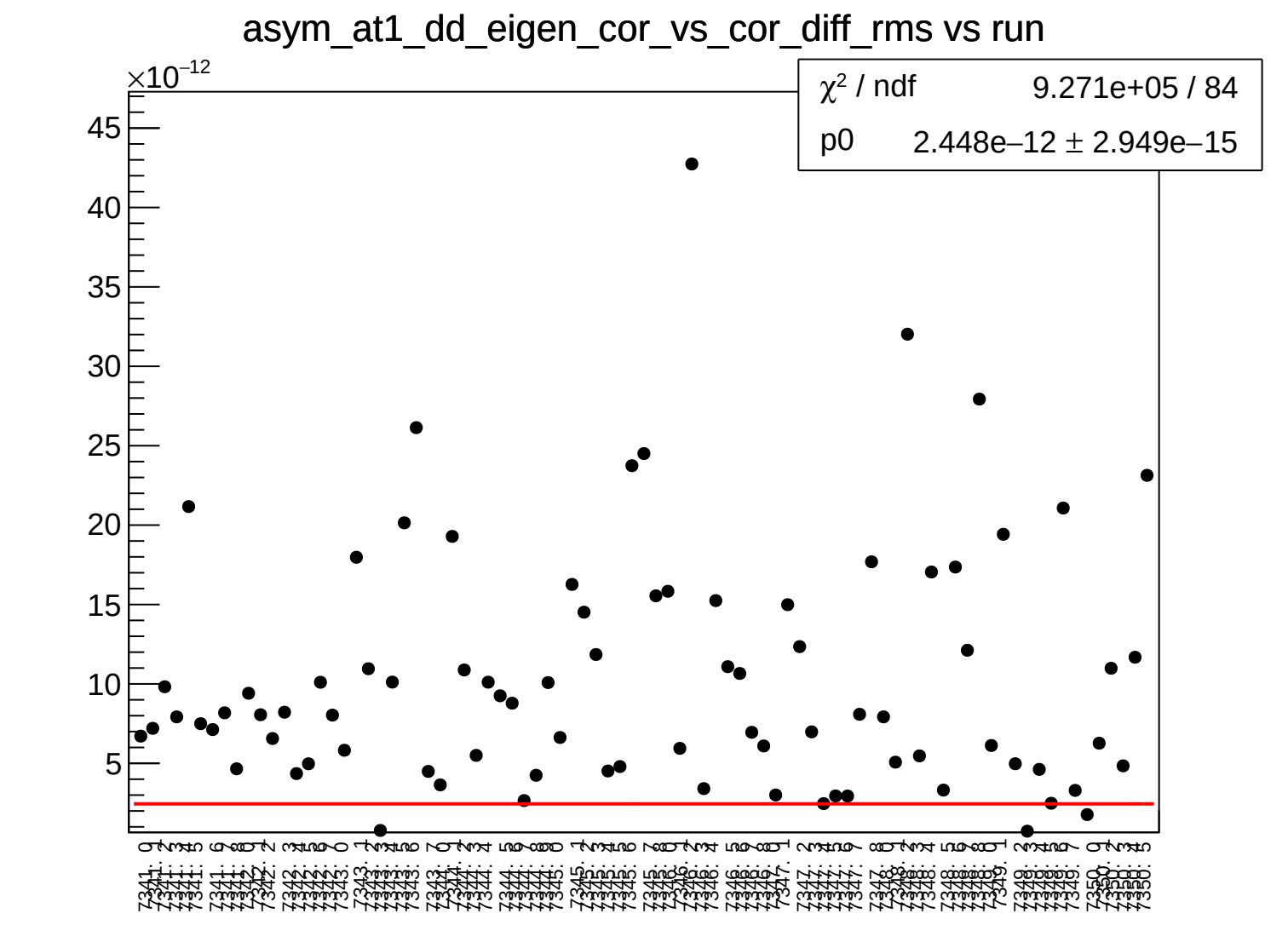

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.616e+05 / 84
p0 36.89 ± 0.0317
120
100
80
60
40
20

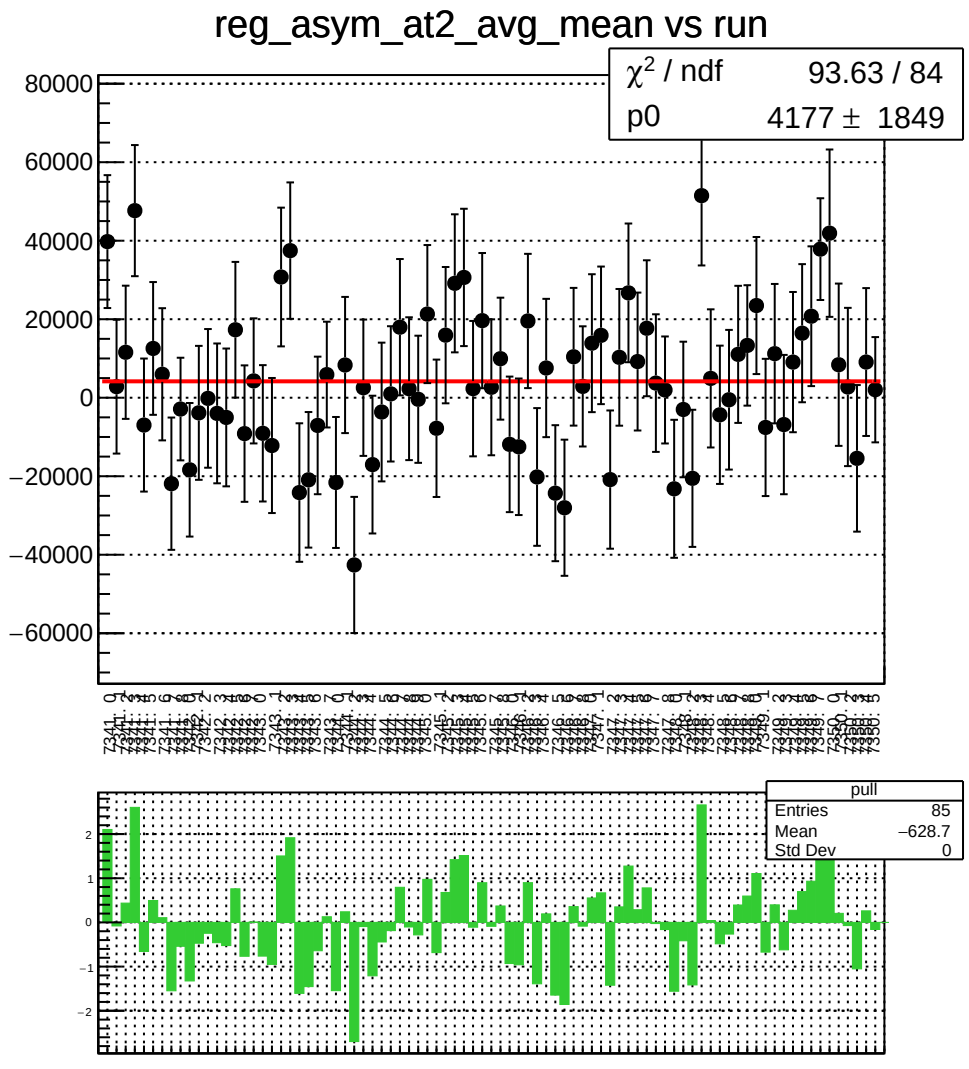

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.25 / 84
p0 −0.0351± 0.04483
pull
Entries 85
Mean 17.85
Std Dev 0

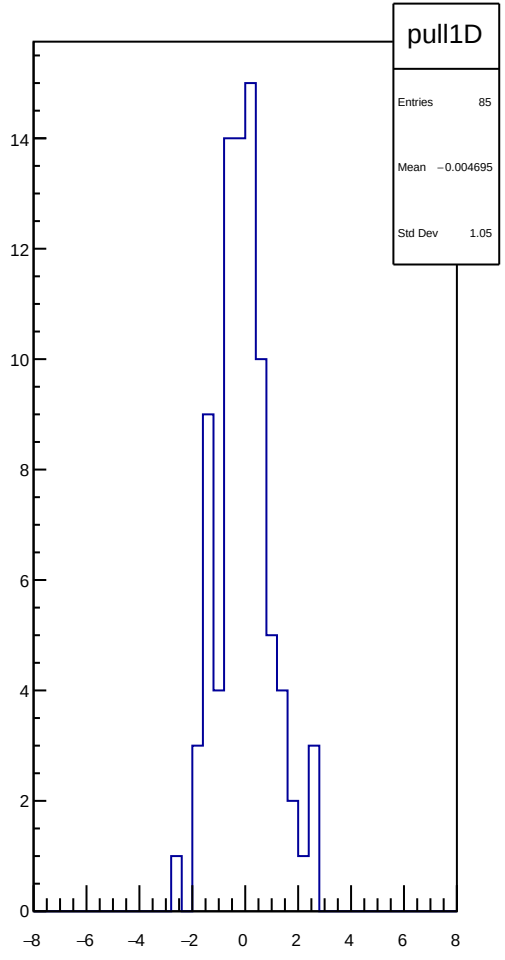

pull1D
Entries 85
Mean 0.08108
Std Dev 1.022

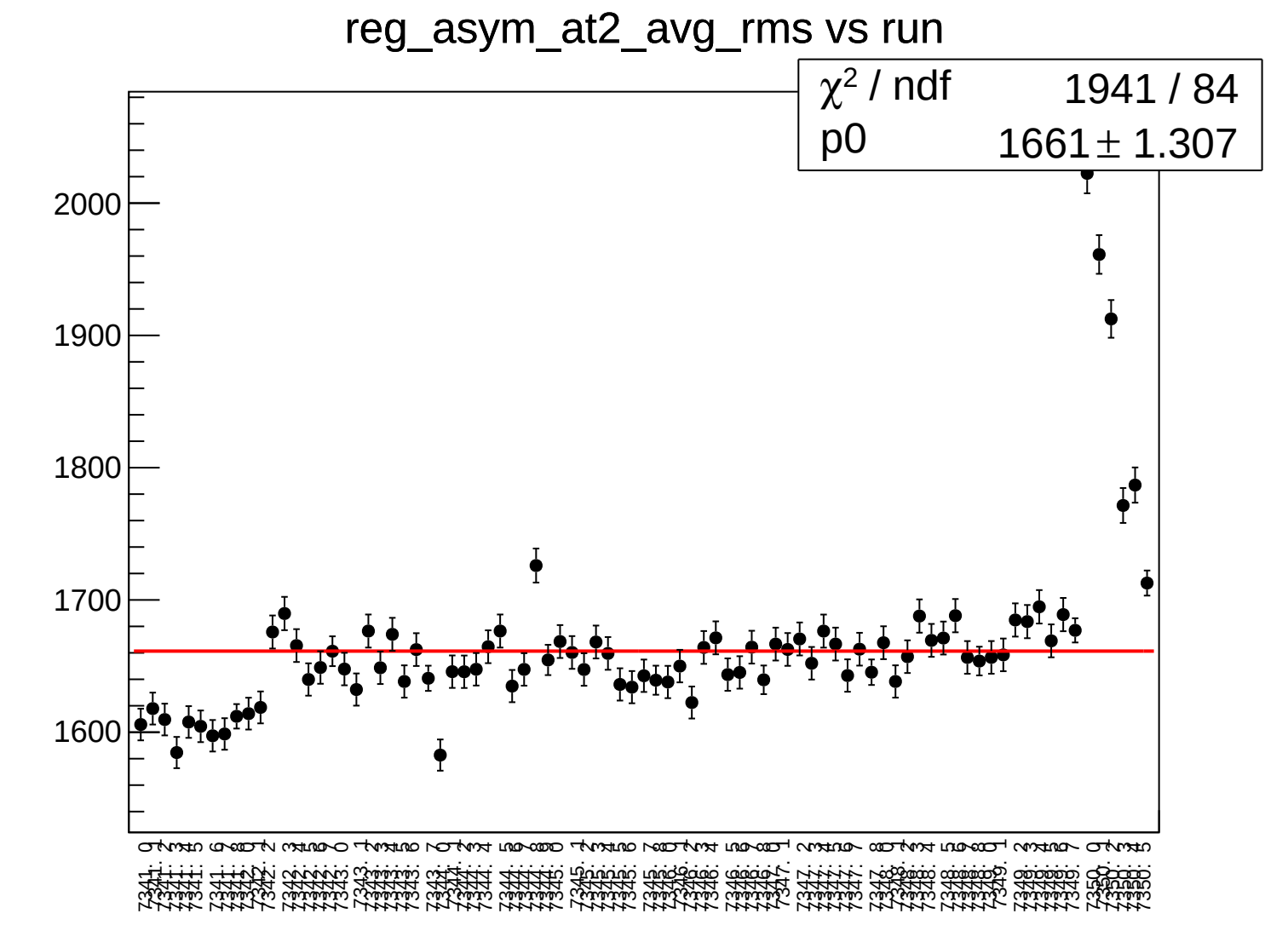

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.616e+05 / 84
p0 36.89 ± 0.0317
120
100
80
60
40
20

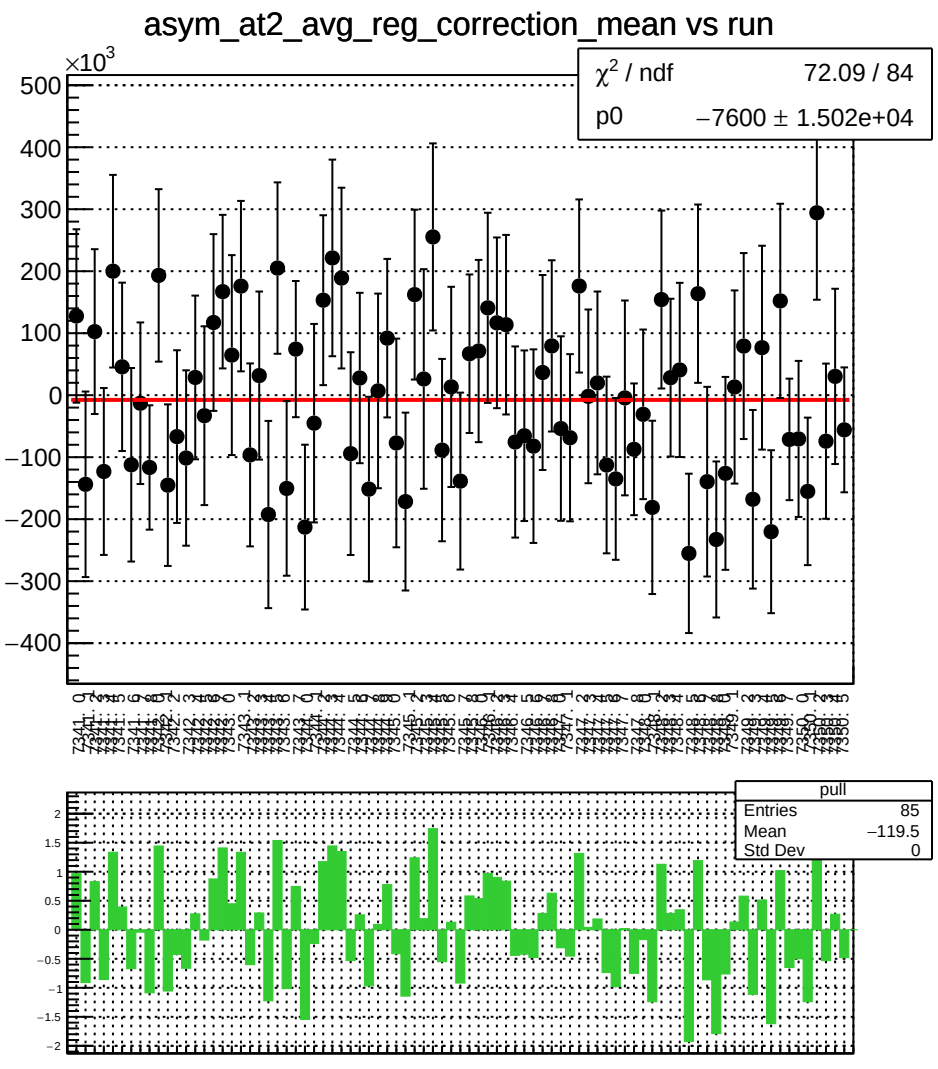

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.45 / 84
p0 1.078e−15 ± 4.17e−15
0.5
0
−0.5
−1
−1.5
pull
Entries 85
Mean −18.87
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.02755
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

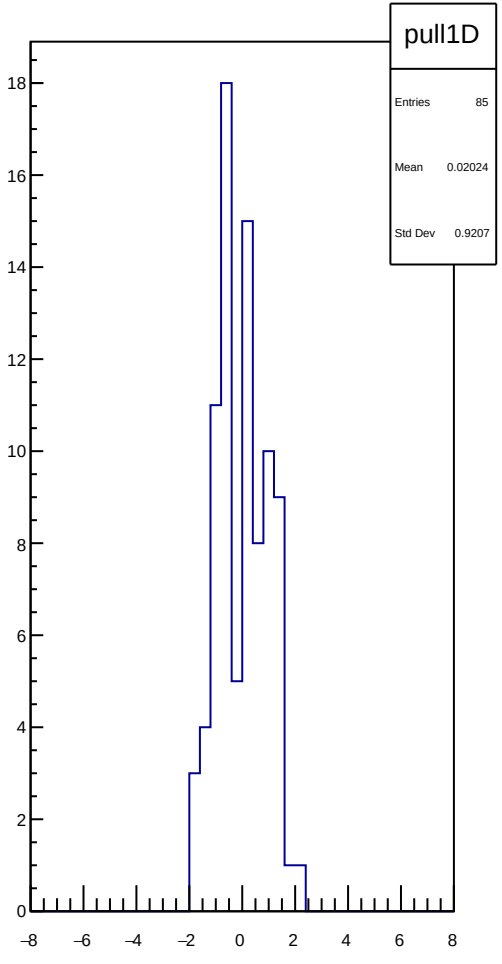

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.271e+05 / 84
p0 2.448e−12 ± 2.949e−15
45
40
35
30
25
20
15
10
5

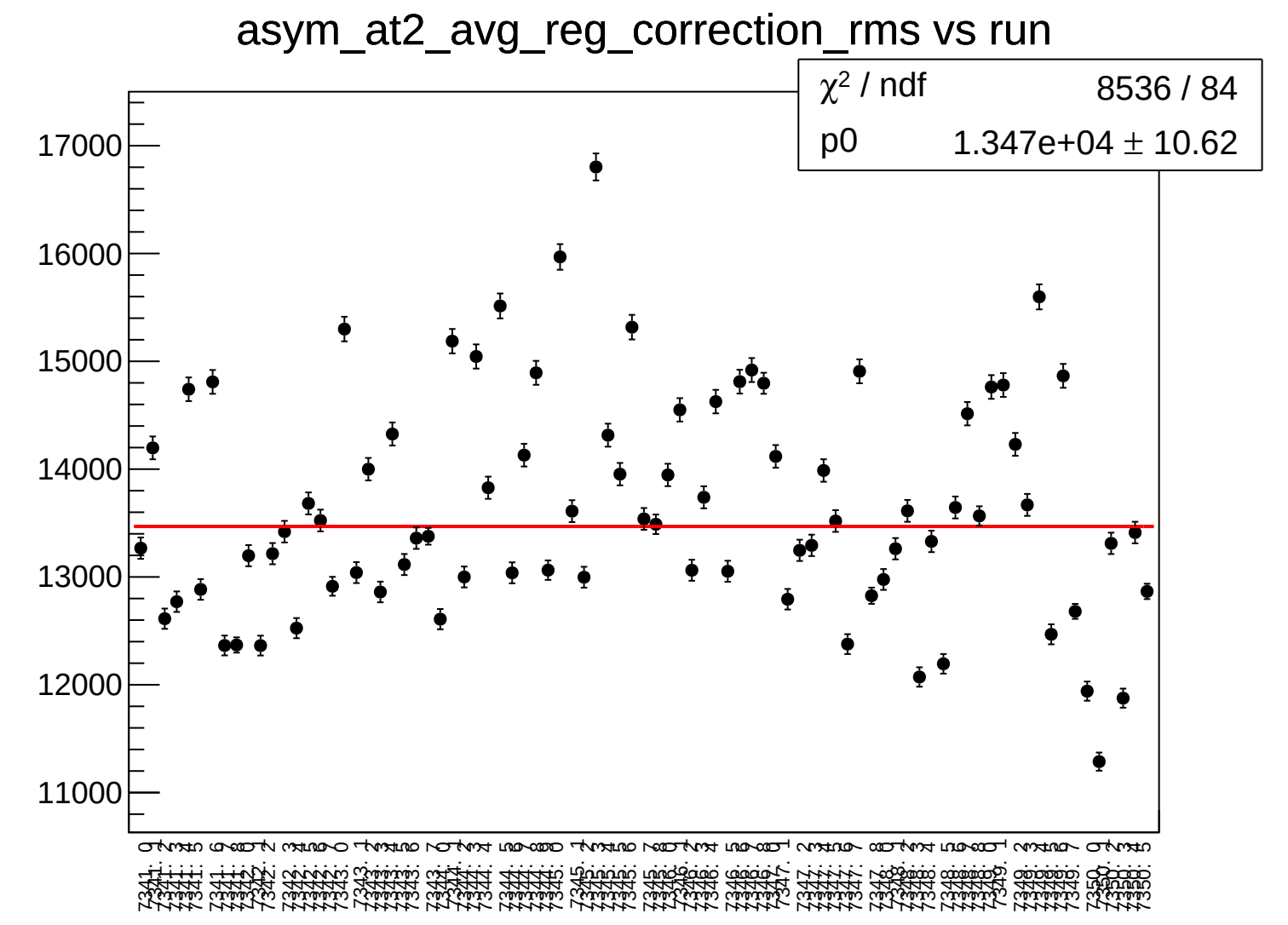

reg_asym_at2_avg_mean vs run
χ² / ndf 93.63 / 84
p0 4177 ± 1849
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −628.7
Std Dev 0
2
1
0
−1
−2

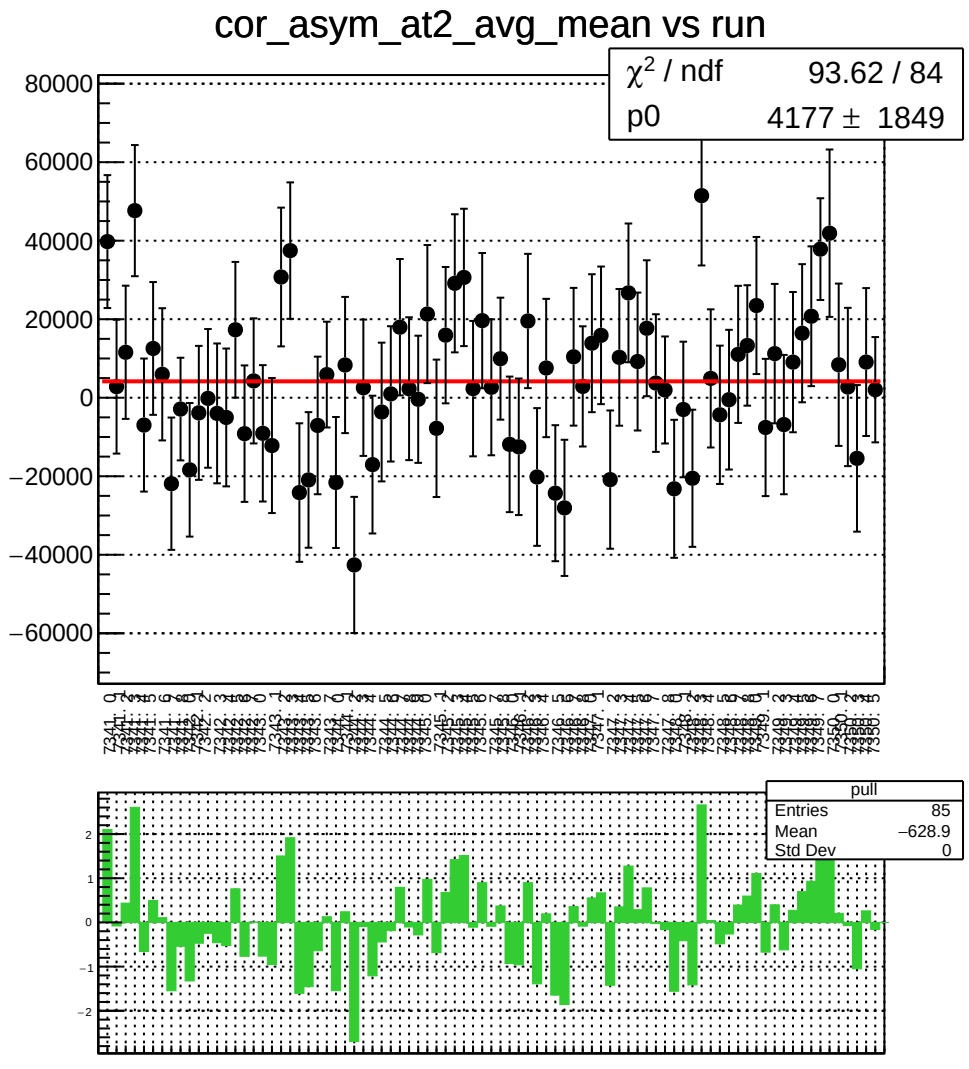

pull1D
Entries 85
Mean −0.004695
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

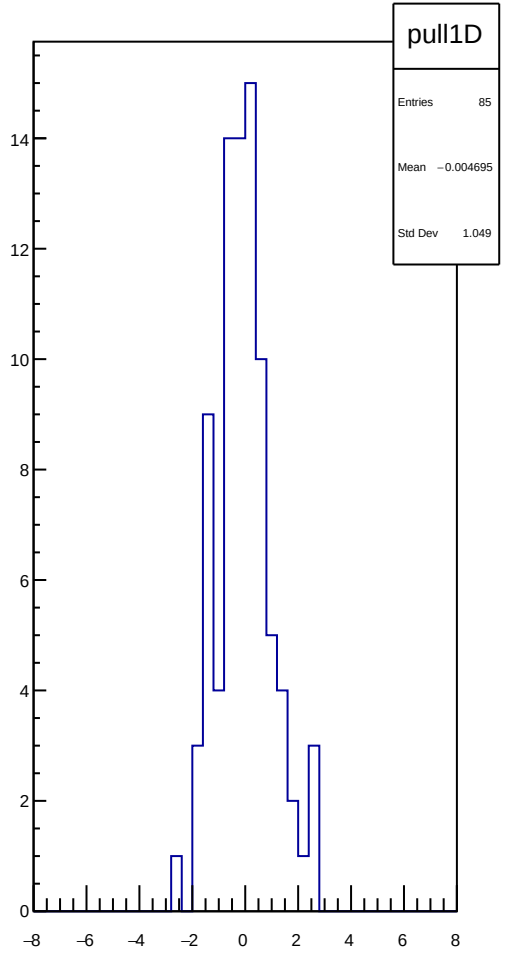

reg_asym_at2_avg_rms vs run
χ² / ndf 1941 / 84
p0 1661 ± 1.307
2000
1900
1800
1700
1600

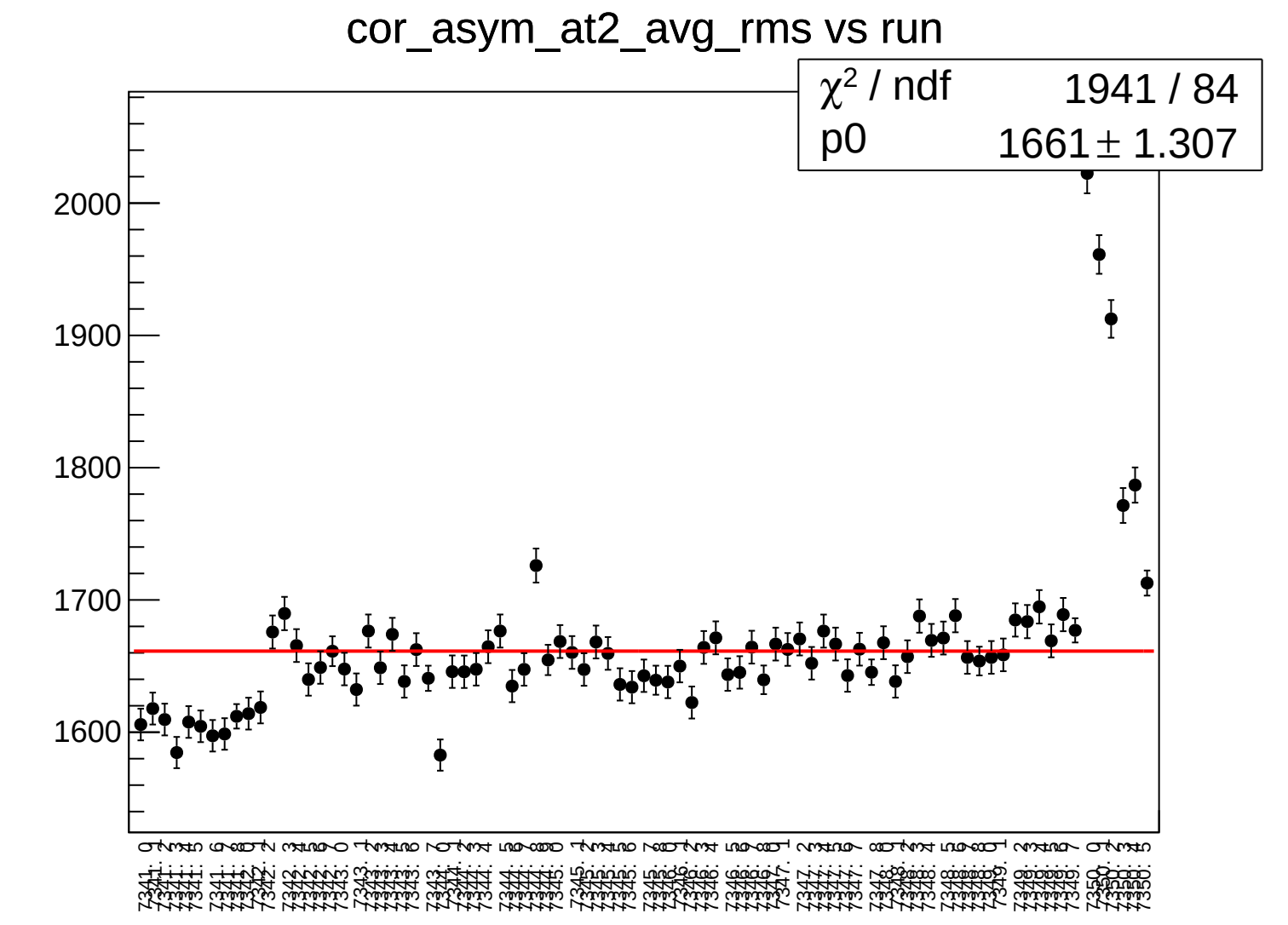

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.09 / 84
p0 −7600 ± 1.502e+04
pull
Entries 85
Mean −119.5
Std Dev 0

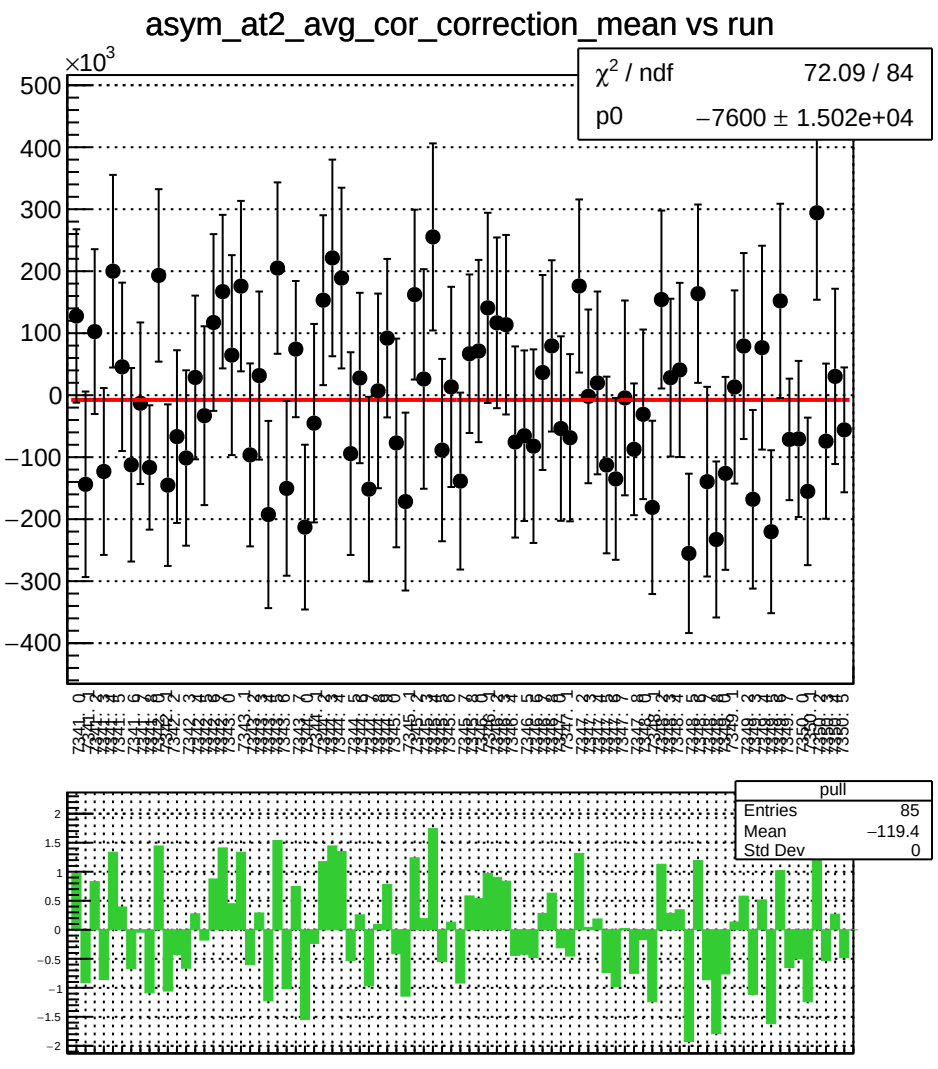

pull1D
Entries 85
Mean 0.02024
Std Dev 0.9207

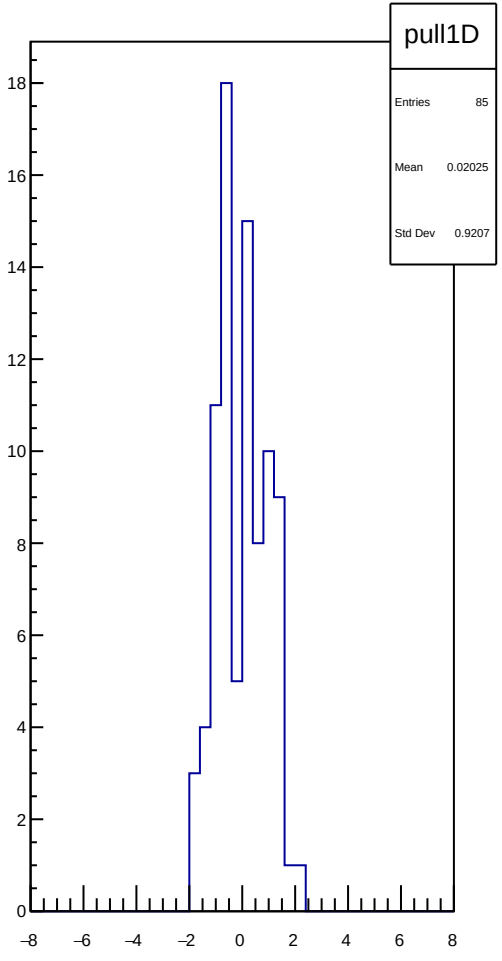

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 8536 / 84
p0 1.347e+04 ± 10.62
17000
16000
15000
14000
13000
12000
11000

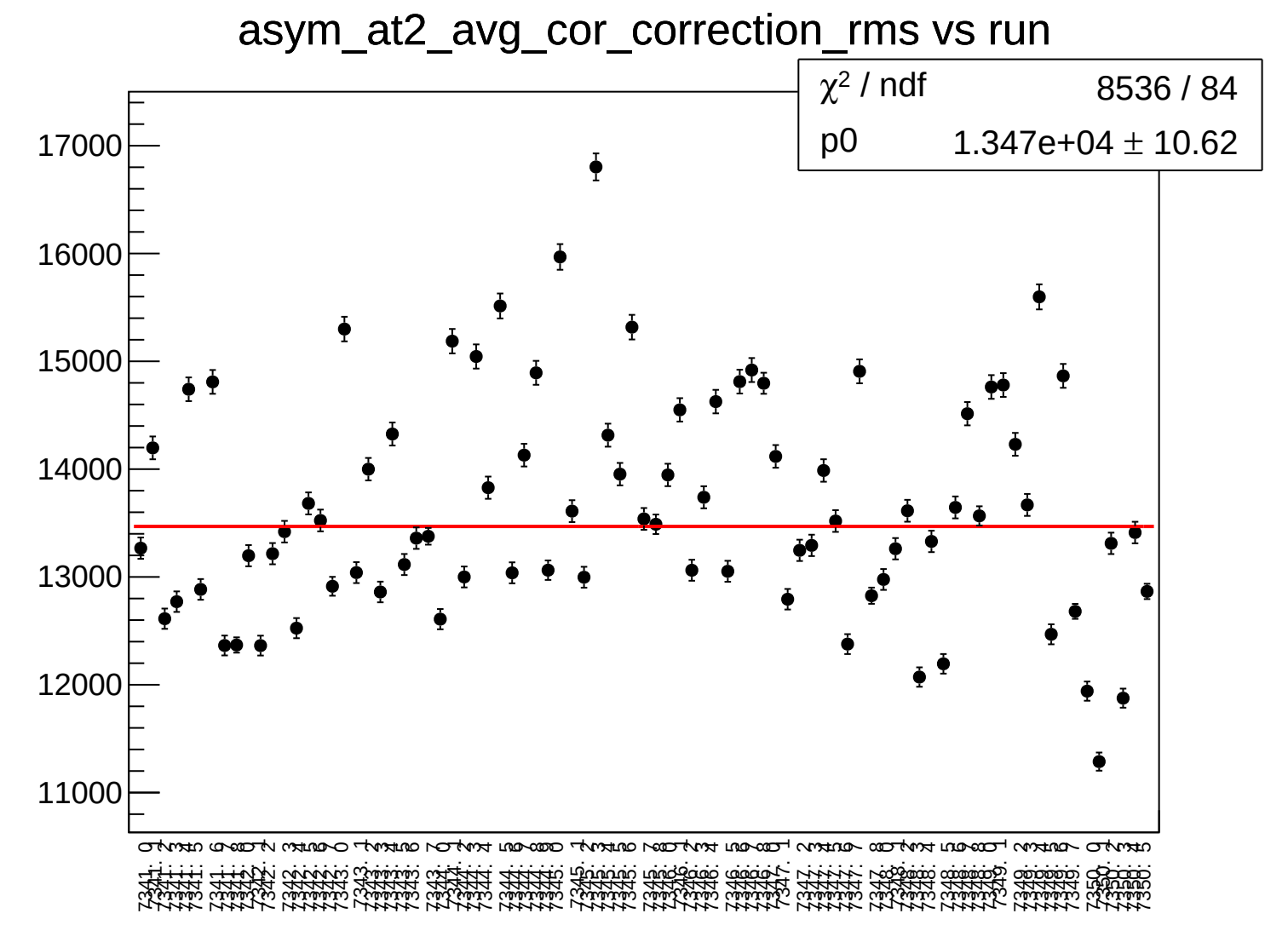

cor_asym_at2_avg_mean vs run
χ² / ndf 93.62 / 84
p0 4177 ± 1849
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −628.9
Std Dev 0
2
1
0
−1
−2

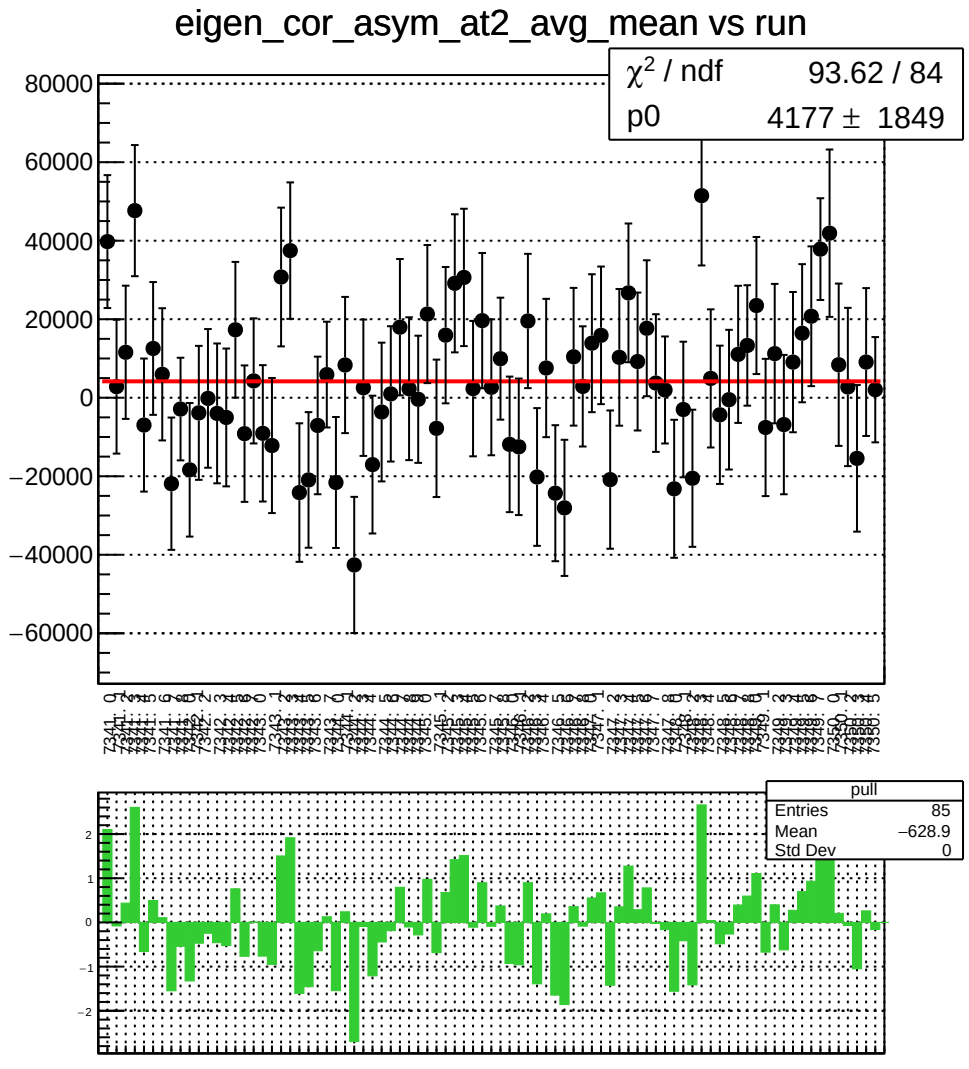

pull1D
Entries 85
Mean −0.004695
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

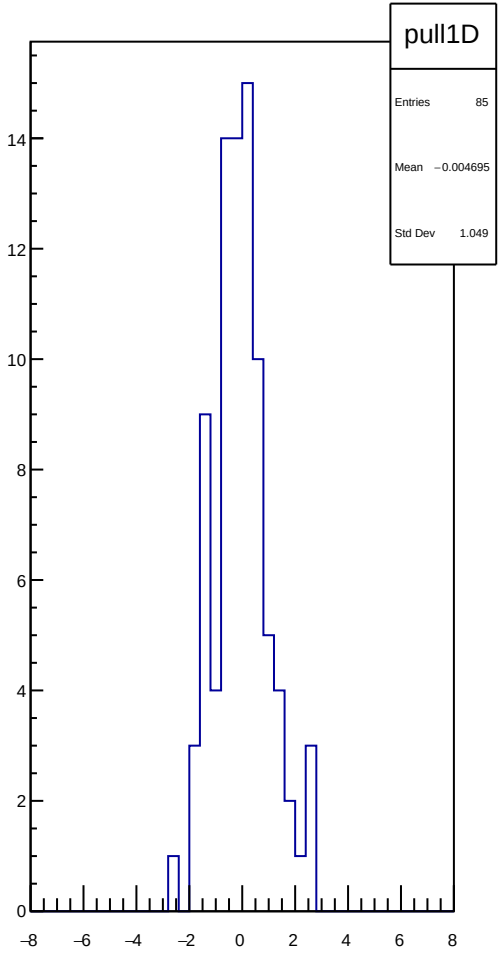

cor_asym_at2_avg_rms vs run
χ² / ndf 1941 / 84
p0 1661 ± 1.307
2000
1900
1800
1700
1600

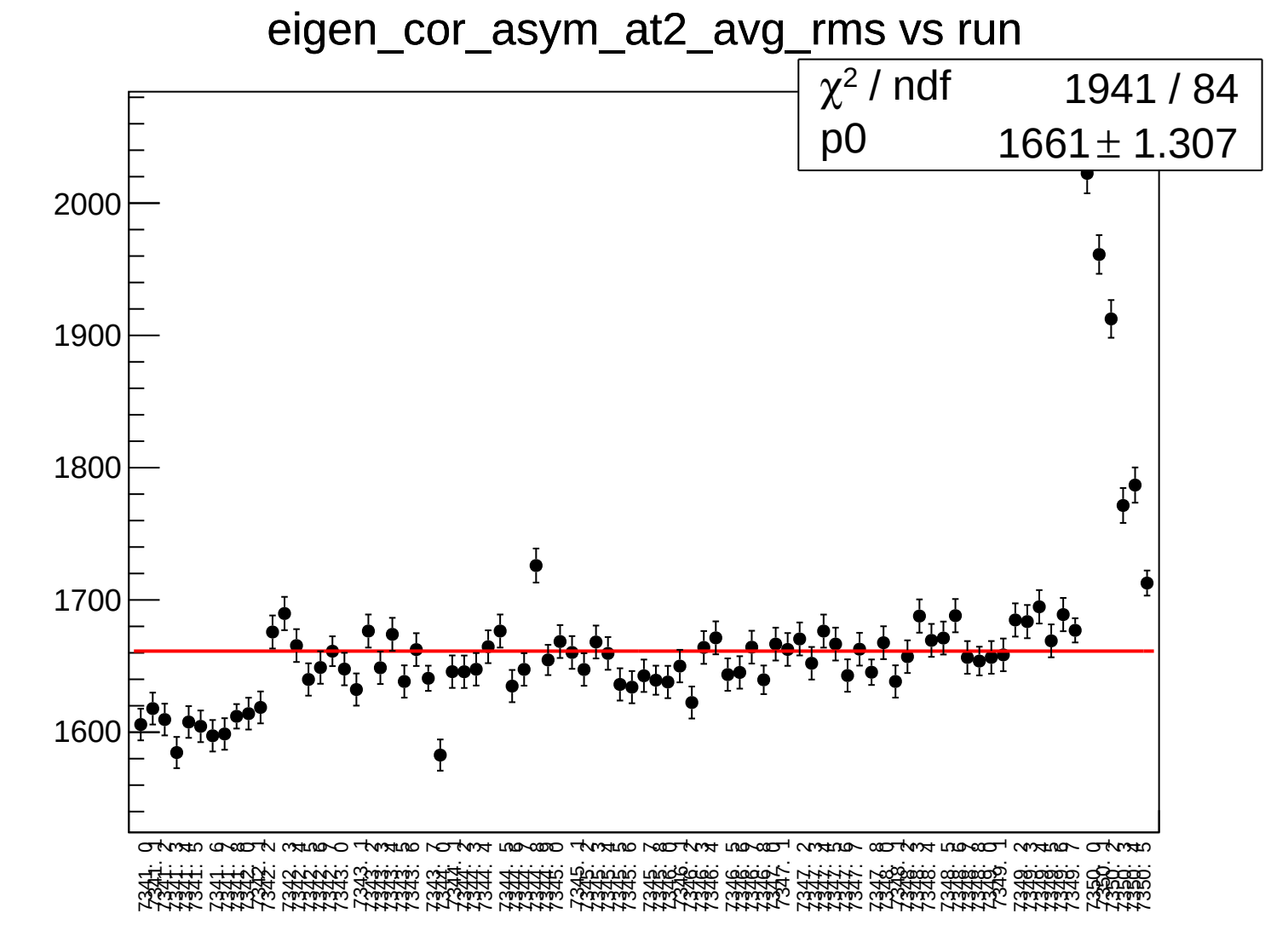

asym_at2_avg_cor_correction_mean vs run
χ² / ndf 72.09 / 84
p0 −7600 ± 1.502e+04
×10³
pull
Entries 85
Mean −119.4
Std Dev 0

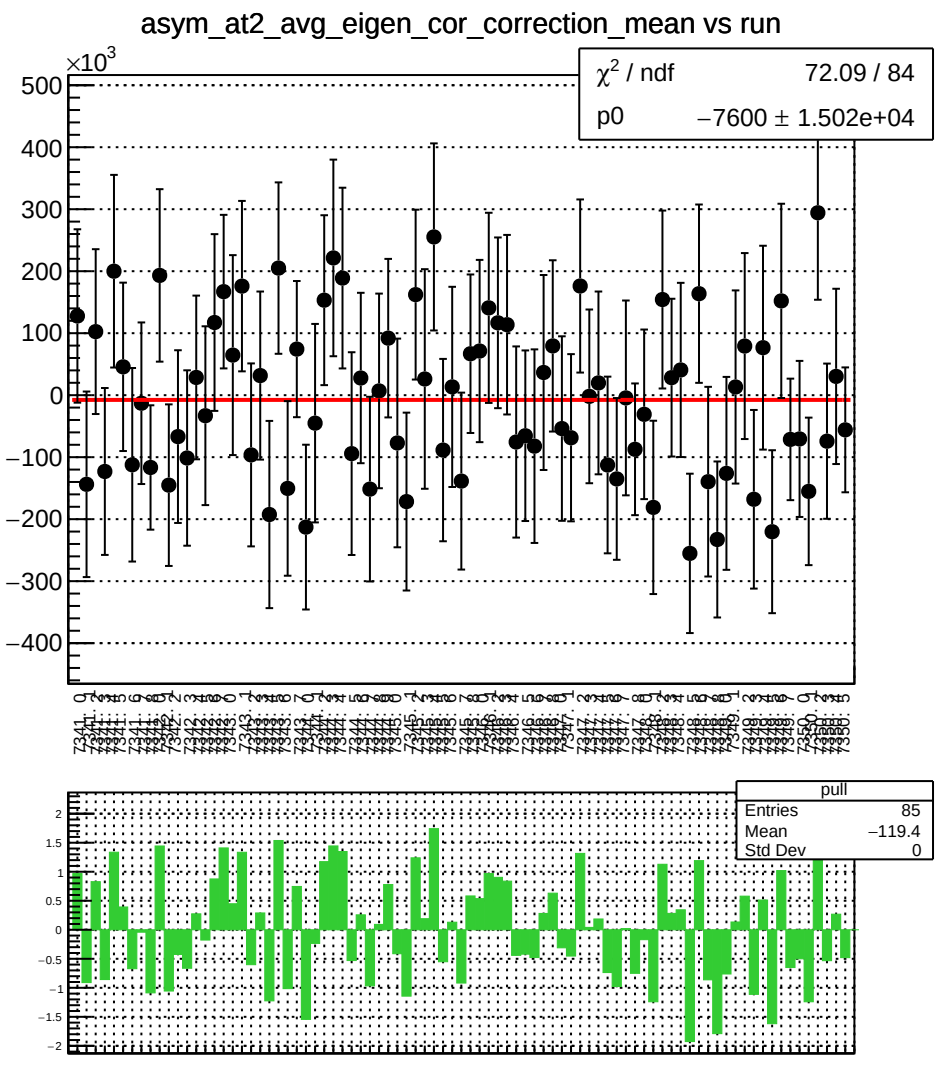

pull1D
Entries 85
Mean 0.02025
Std Dev 0.9207

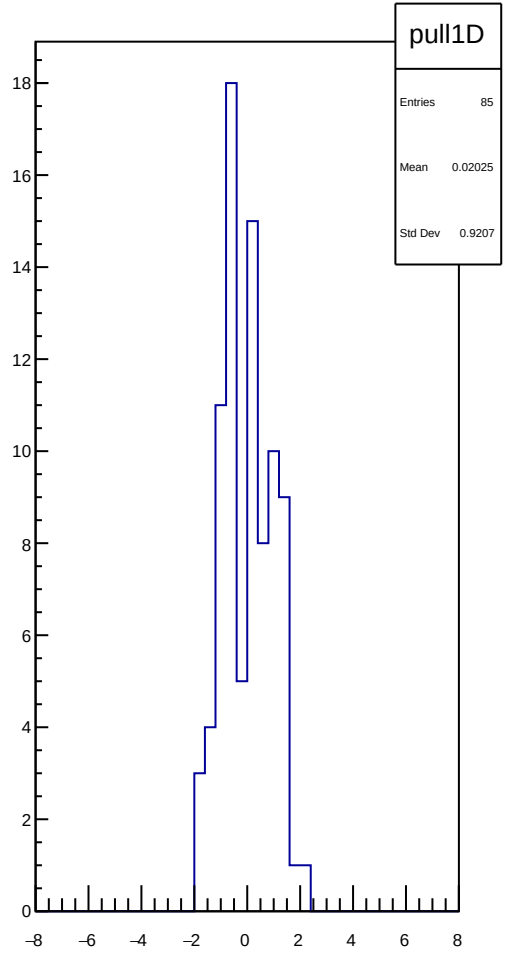

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 8536 / 84
p0 1.347e+04 ± 10.62
17000
16000
15000
14000
13000
12000
11000

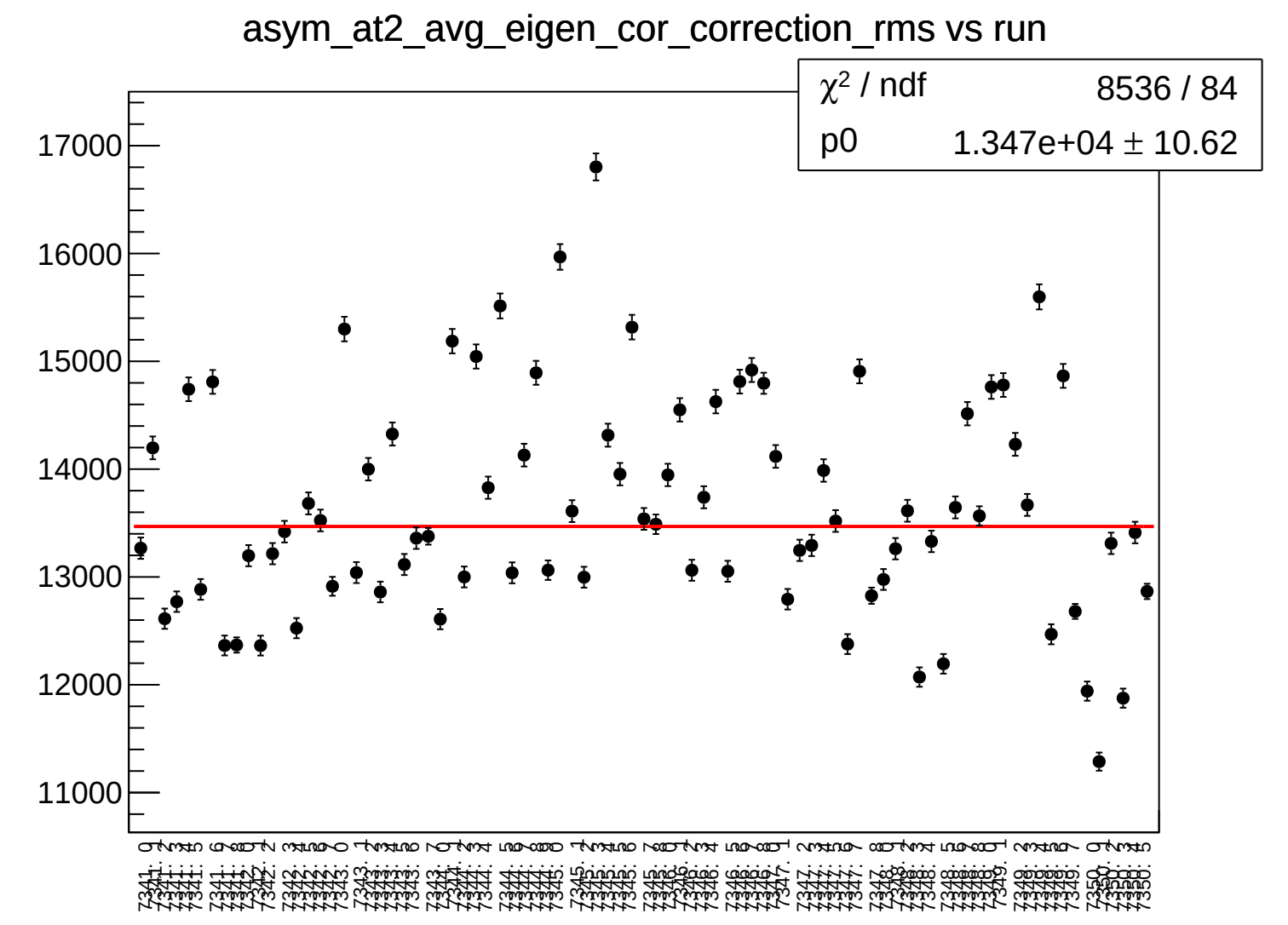

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 93.62 / 84
p0 4177 ± 1849
pull
Entries 85
Mean −628.9
Std Dev 0

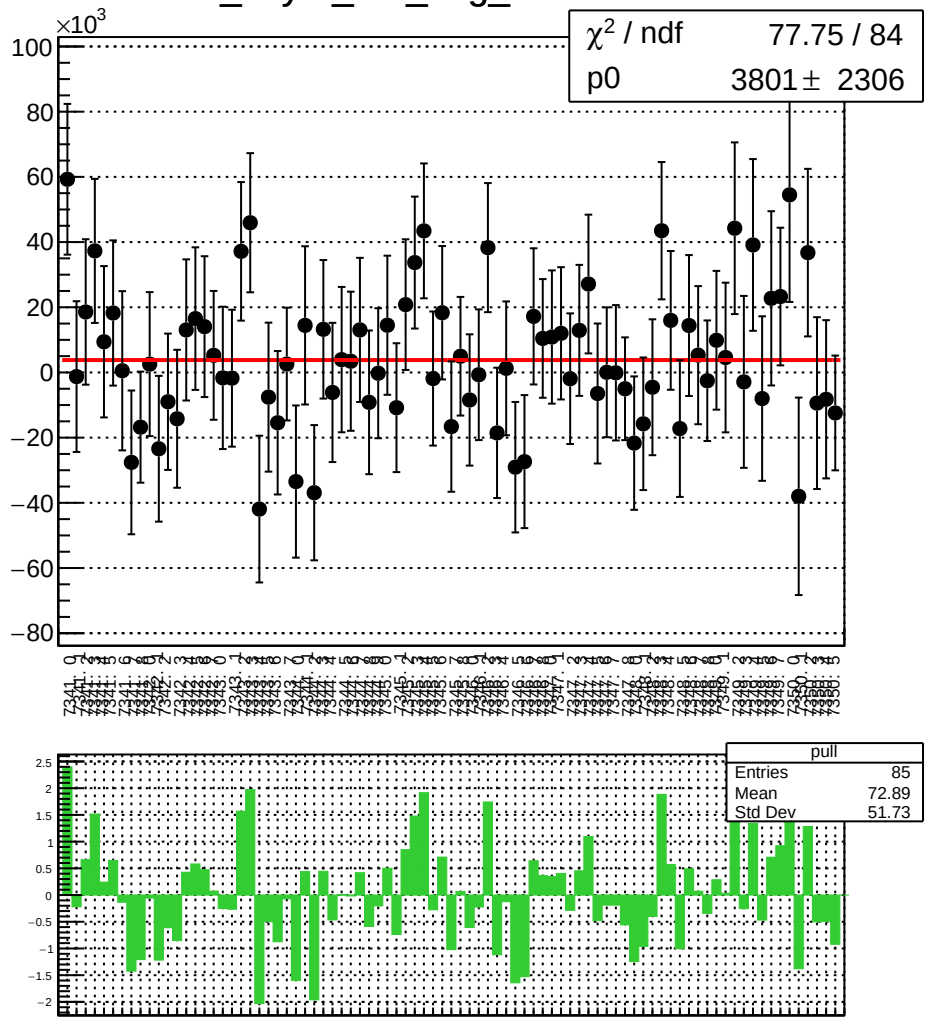

pull1D
Entries 85
Mean −0.004695
Std Dev 1.049

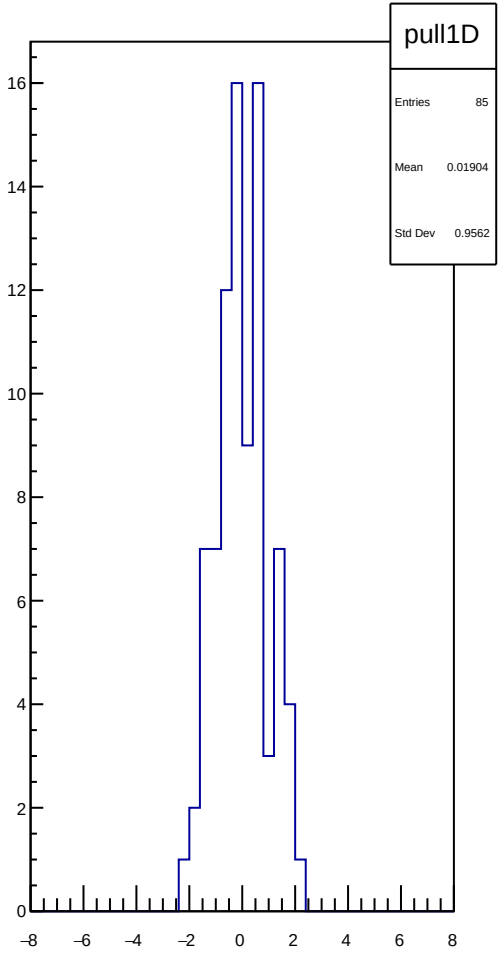

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 1941 / 84
p0 1661 ± 1.307
2000
1900
1800
1700
1600

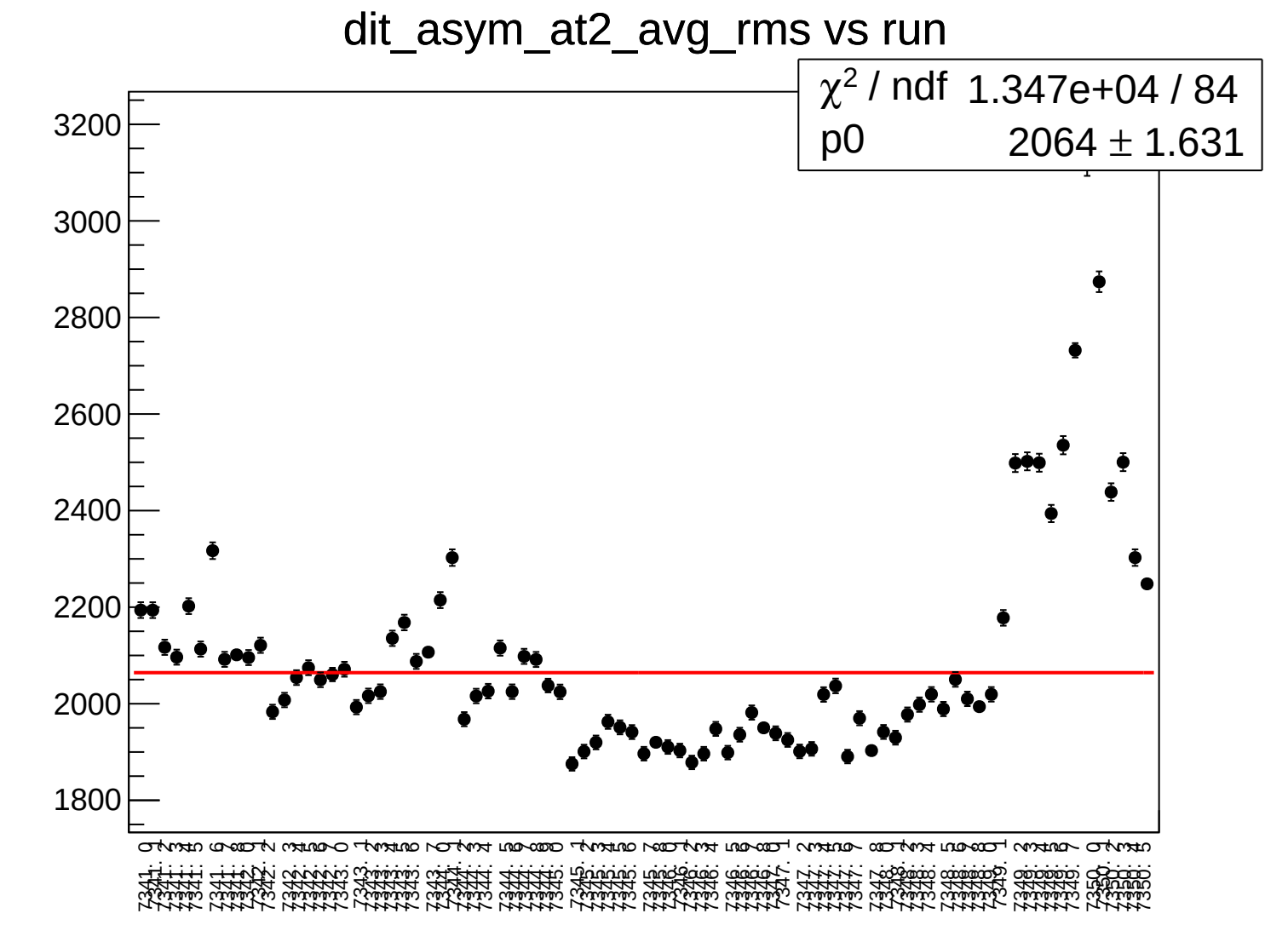

asym_at2_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.09 / 84
p0 −7600 ± 1.502e+04
pull
Entries 85
Mean −119.4
Std Dev 0

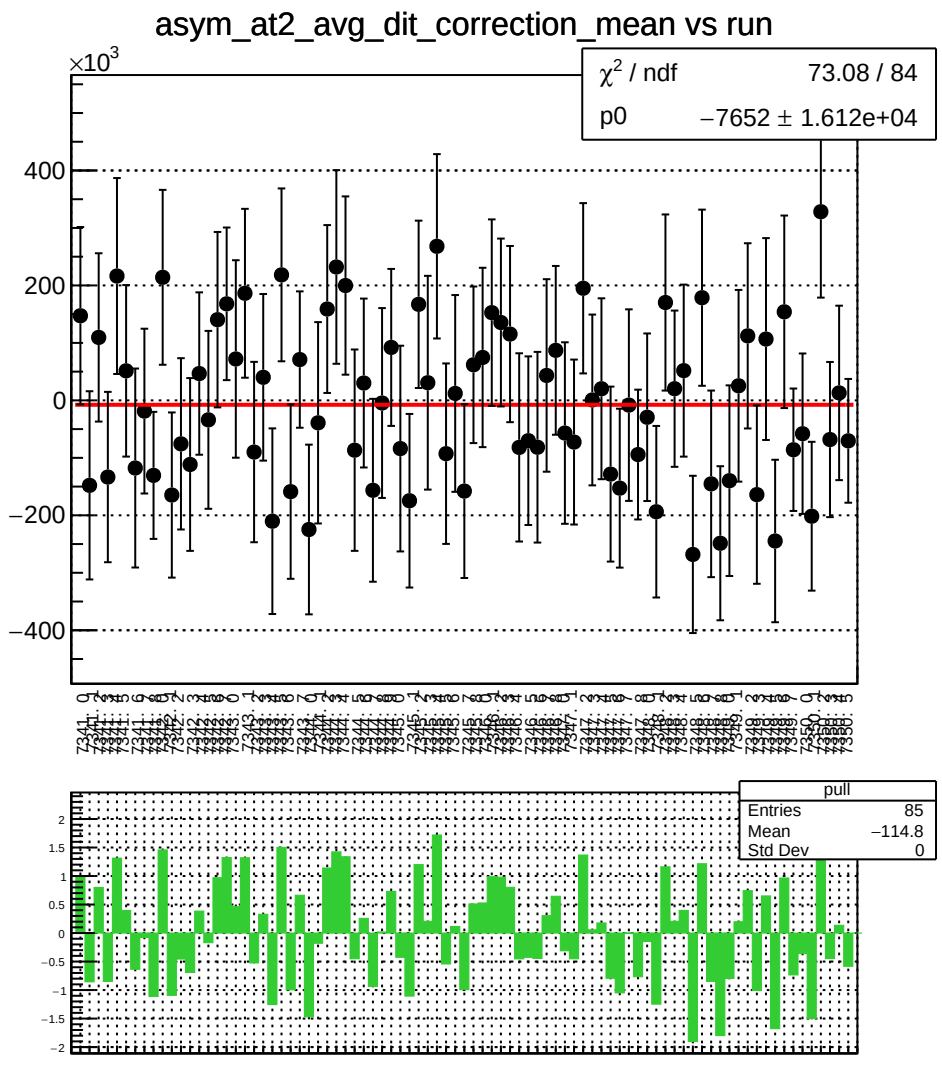

pull1D
Entries 85
Mean 0.02025
Std Dev 0.9207

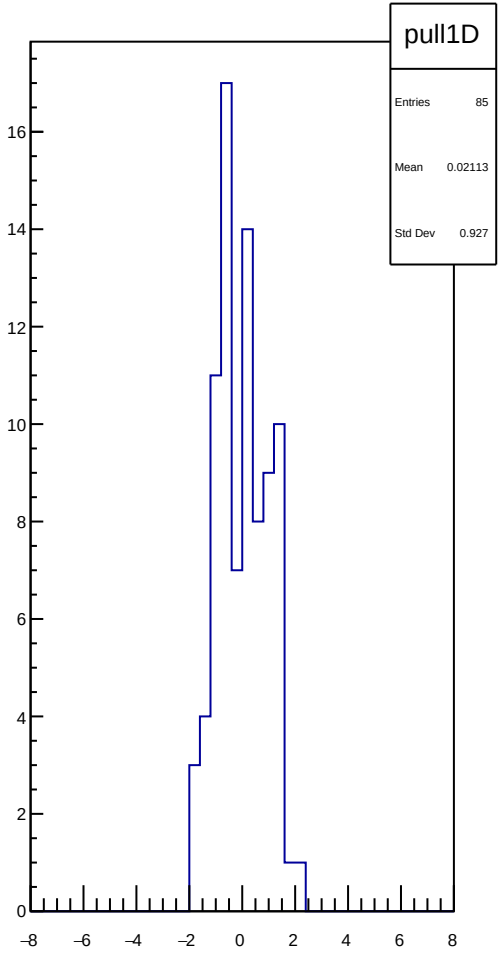

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 8536 / 84
p0 1.347e+04 ± 10.62
17000
16000
15000
14000
13000
12000
11000

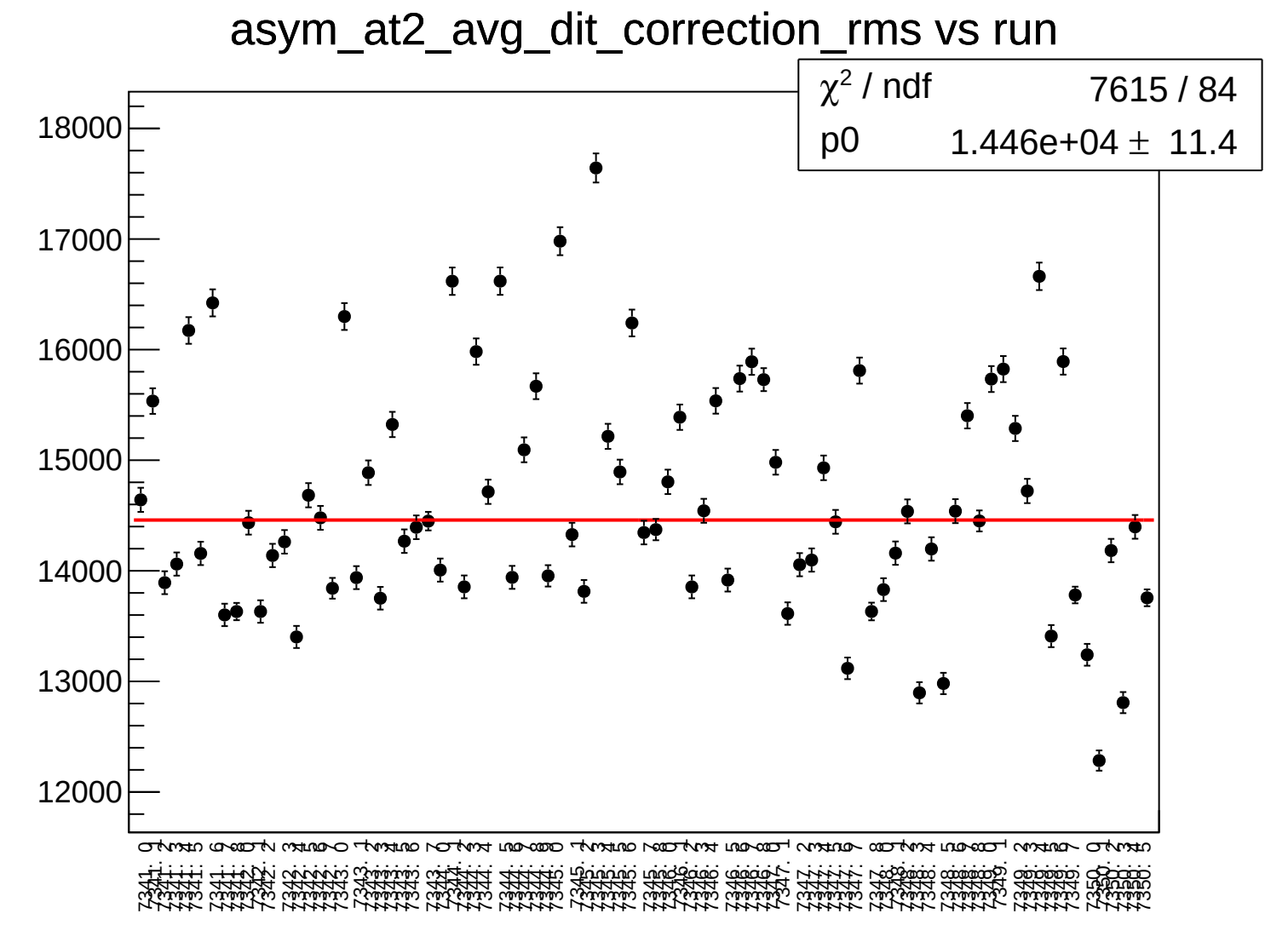

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 77.75 / 84
p0 3801 ± 2306
pull
Entries 85
Mean 72.89
Std Dev 51.73

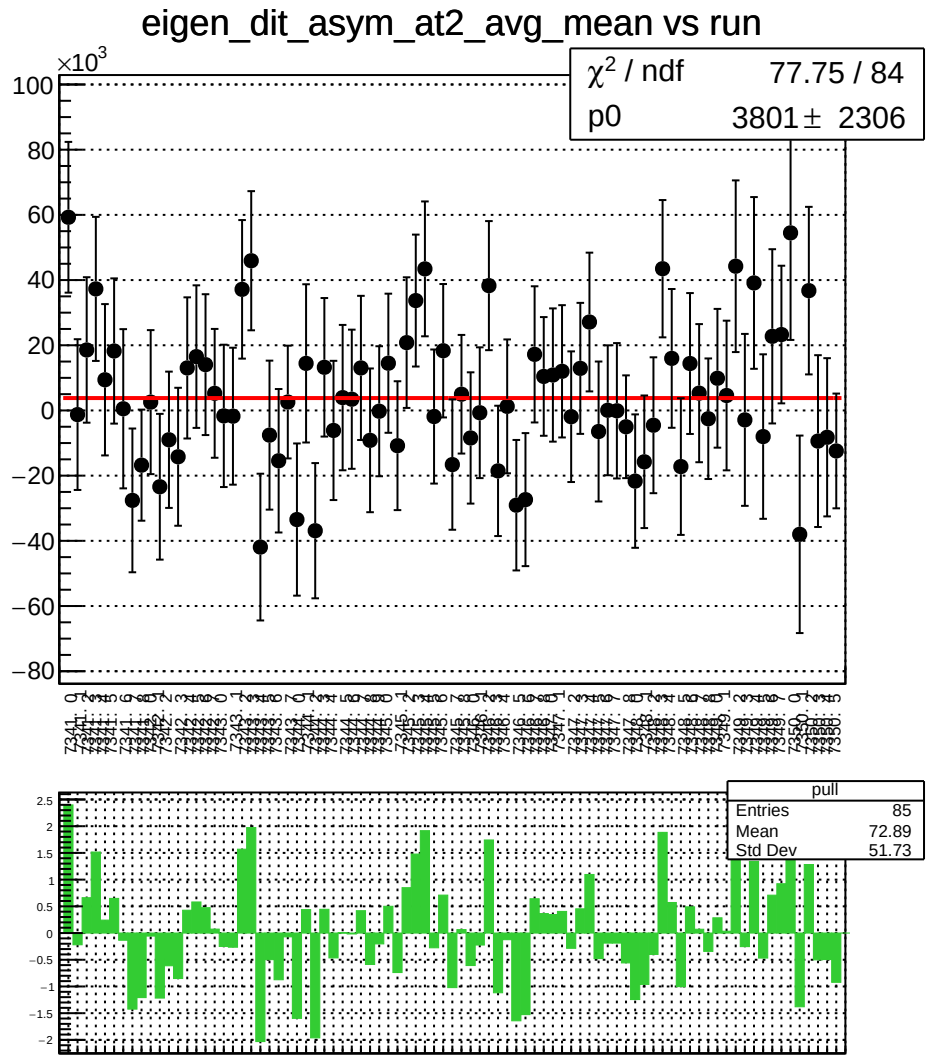

pull1D
Entries 85
Mean 0.01904
Std Dev 0.9562

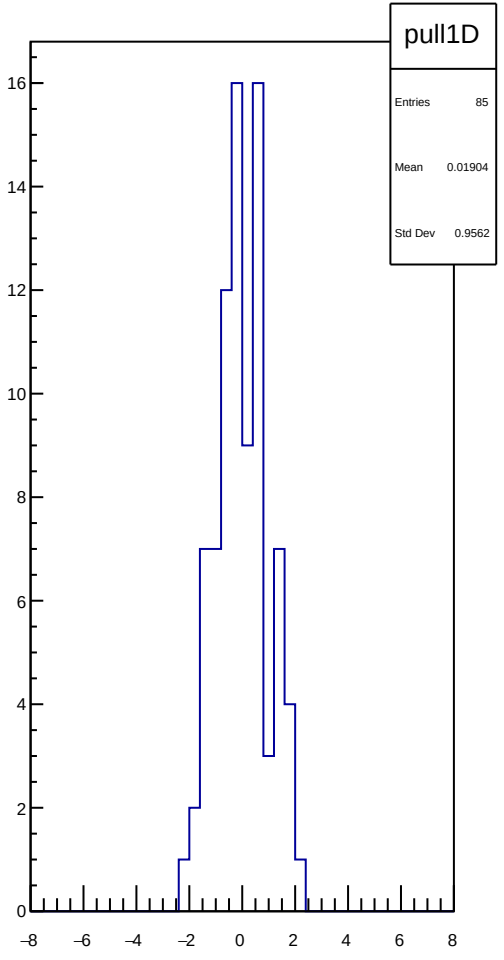

dit_asym_at2_avg_rms vs run
χ² / ndf 1.347e+04 / 84
p0 2064 ± 1.631
3200
3000
2800
2600
2400
2200
2000
1800

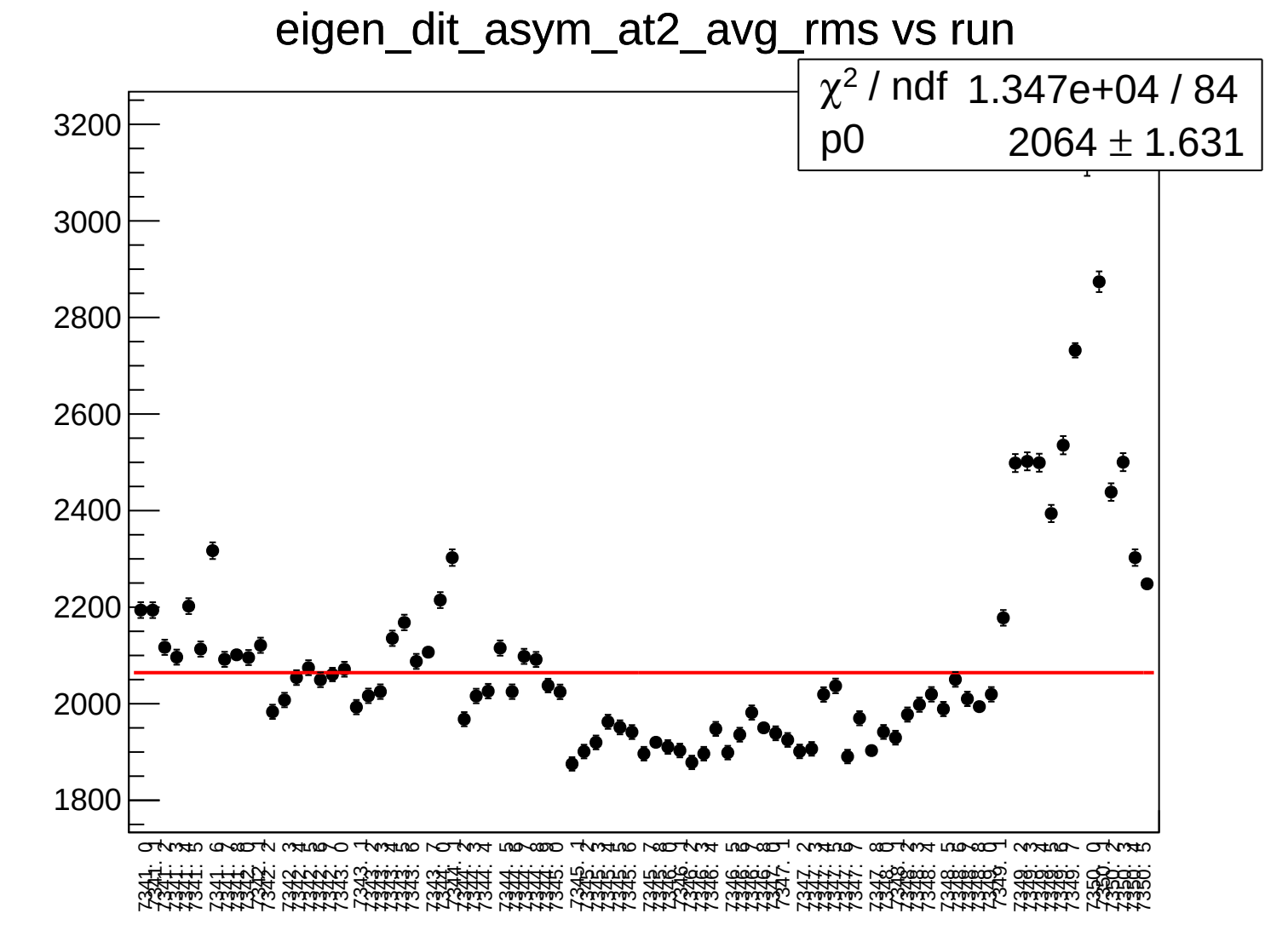

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.08 / 84
p0 −7652 ± 1.612e+04
400
200
0
−200
−400
pull
Entries 85
Mean −114.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

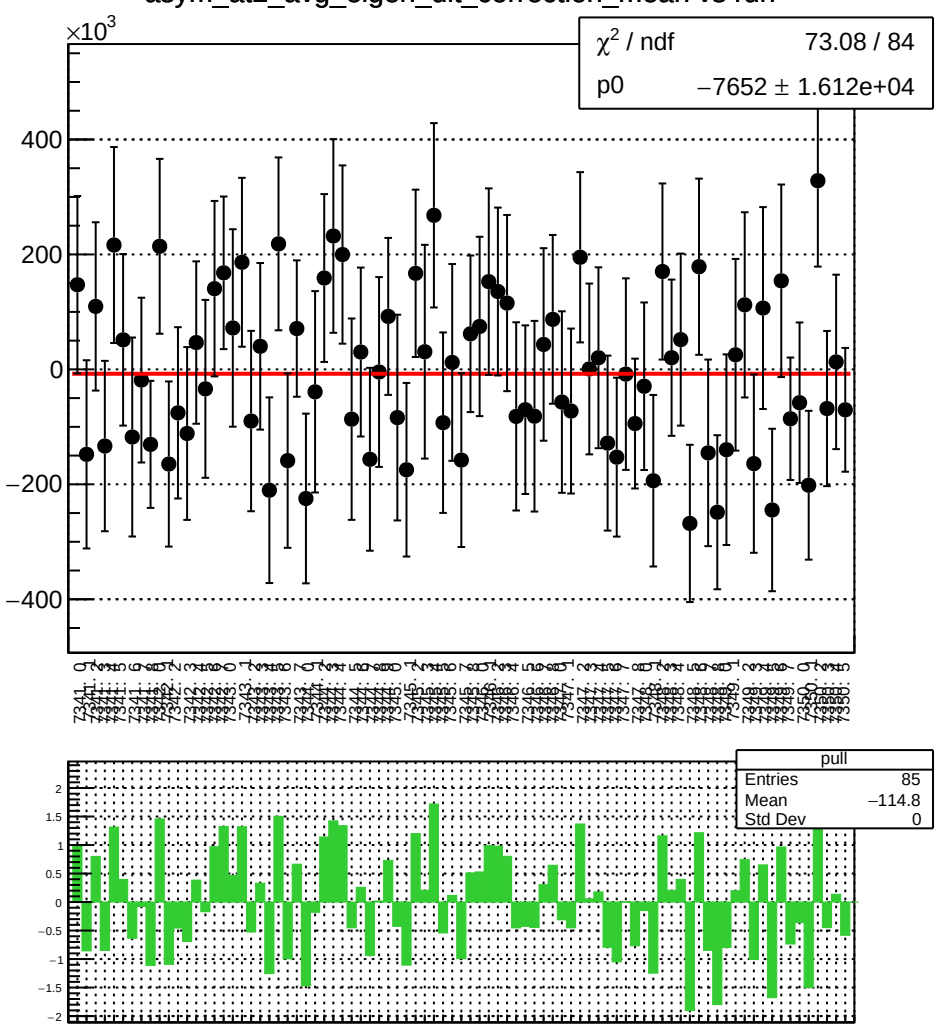

pull1D
Entries 85
Mean 0.02113
Std Dev 0.927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

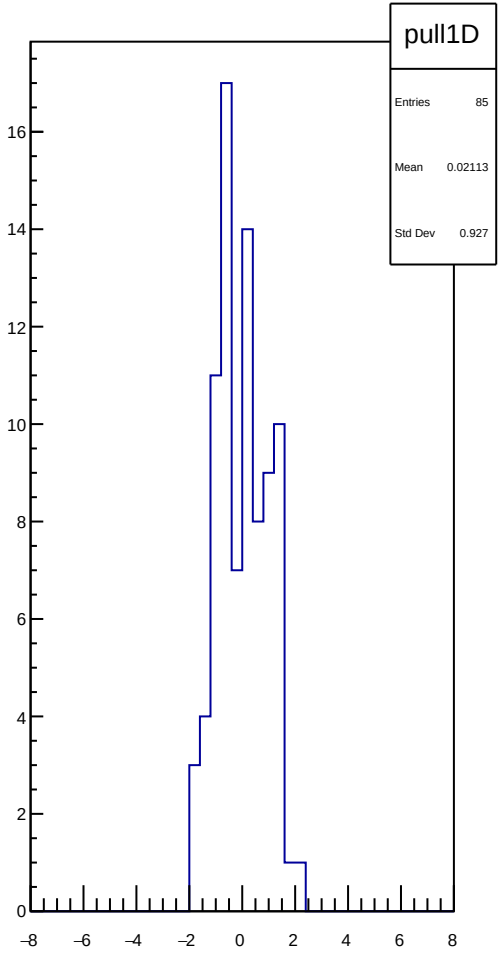

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 7615 / 84
p0 1.446e+04 ± 11.4
18000
17000
16000
15000
14000
13000
12000

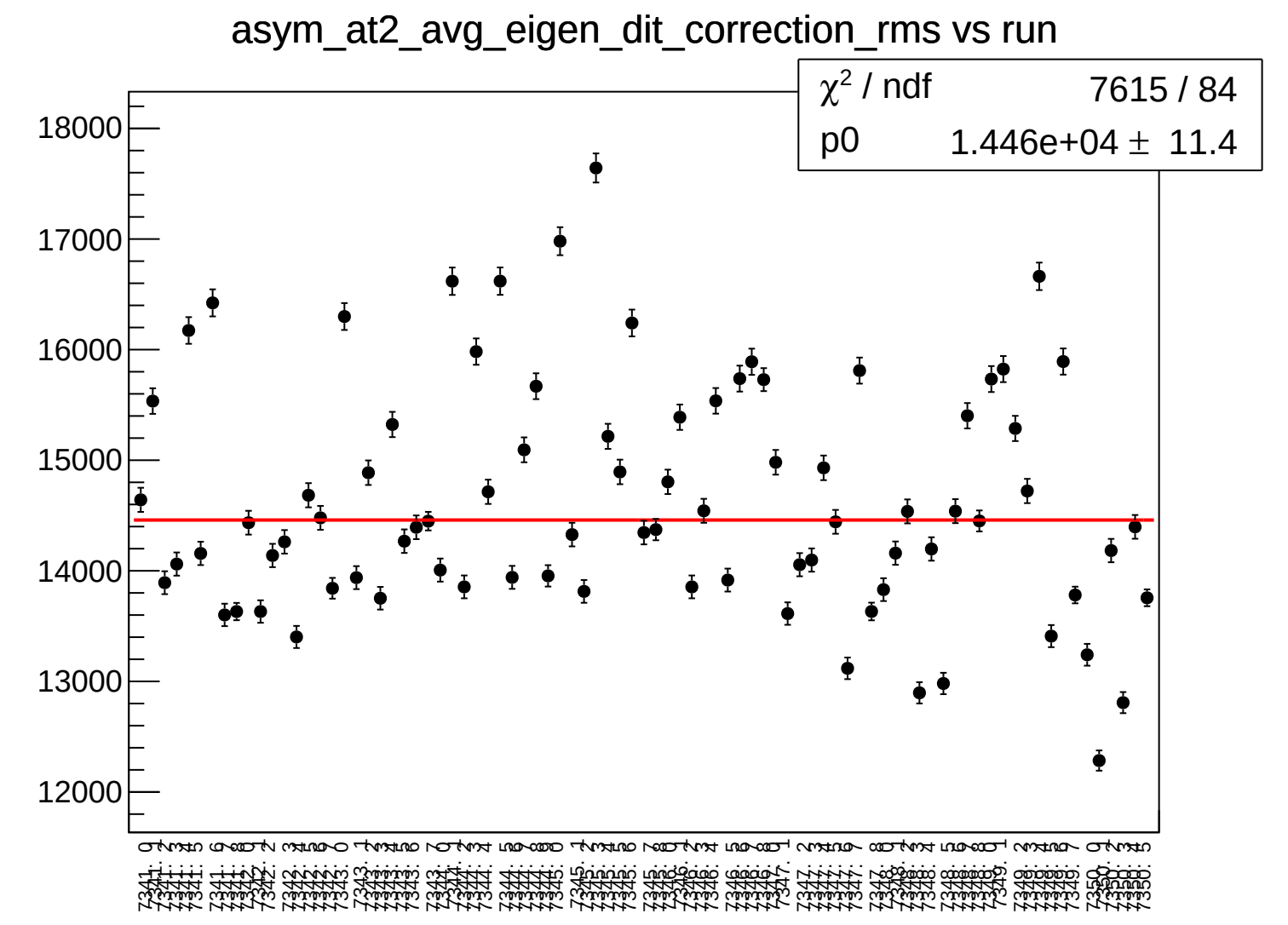

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 77.75 / 84
p0 3801 ± 2306
pull
Entries 85
Mean 72.89
Std Dev 51.73

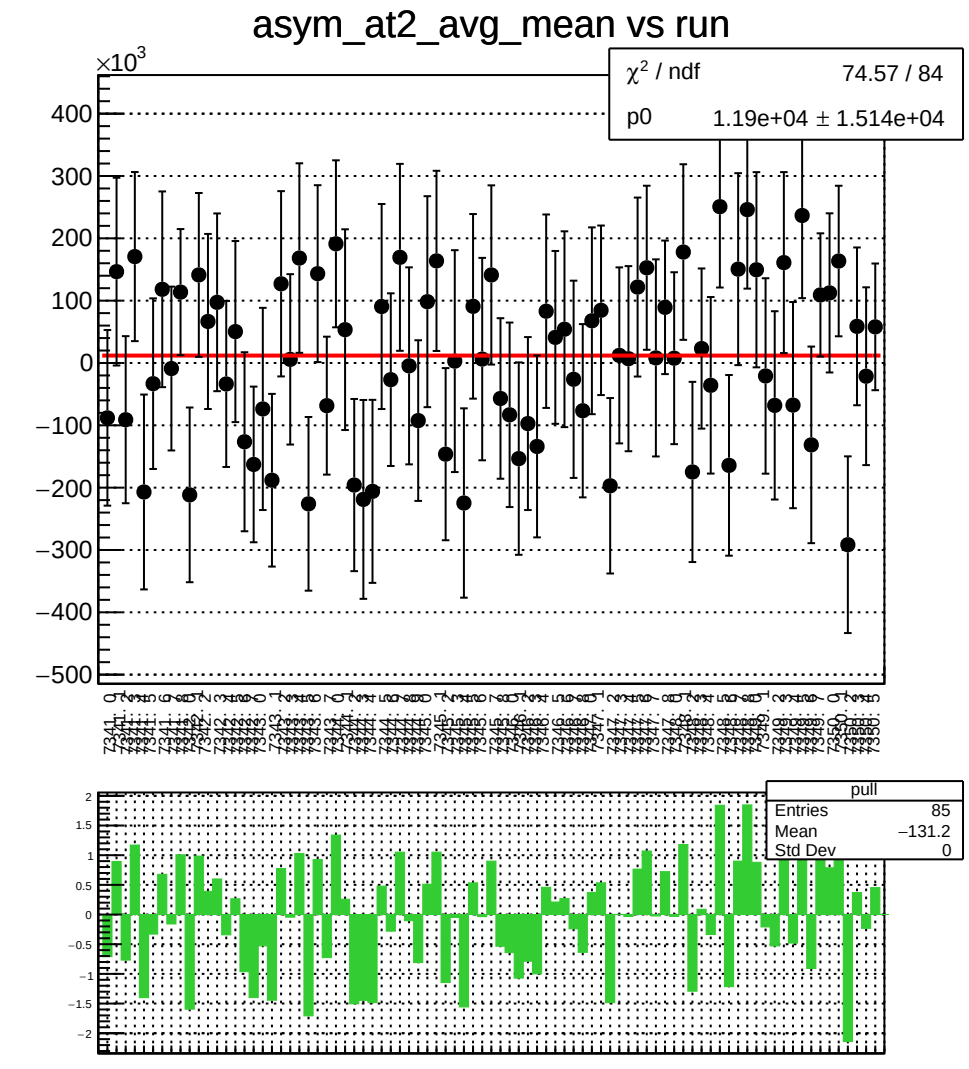

pull1D
Entries 85
Mean 0.01904
Std Dev 0.9562

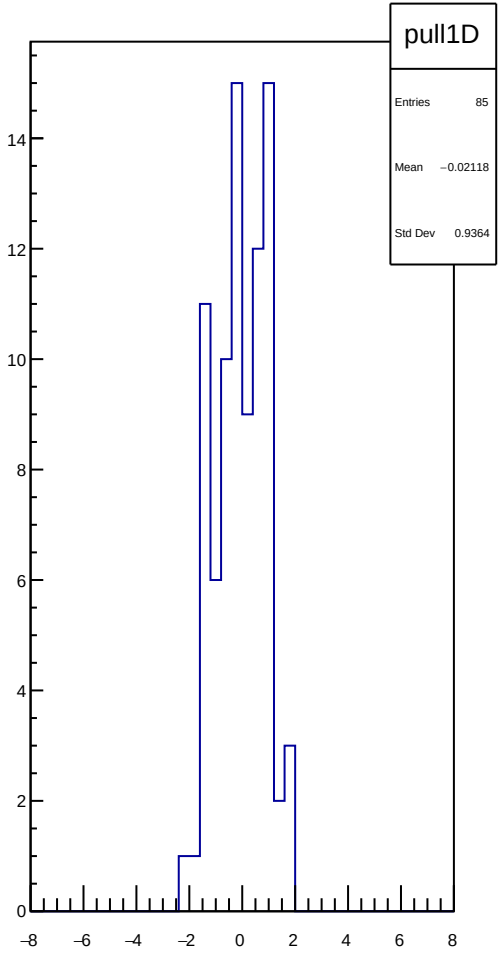

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1.347e+04 / 84
p0 2064 ± 1.631
3200
3000
2800
2600
2400
2200
2000
1800

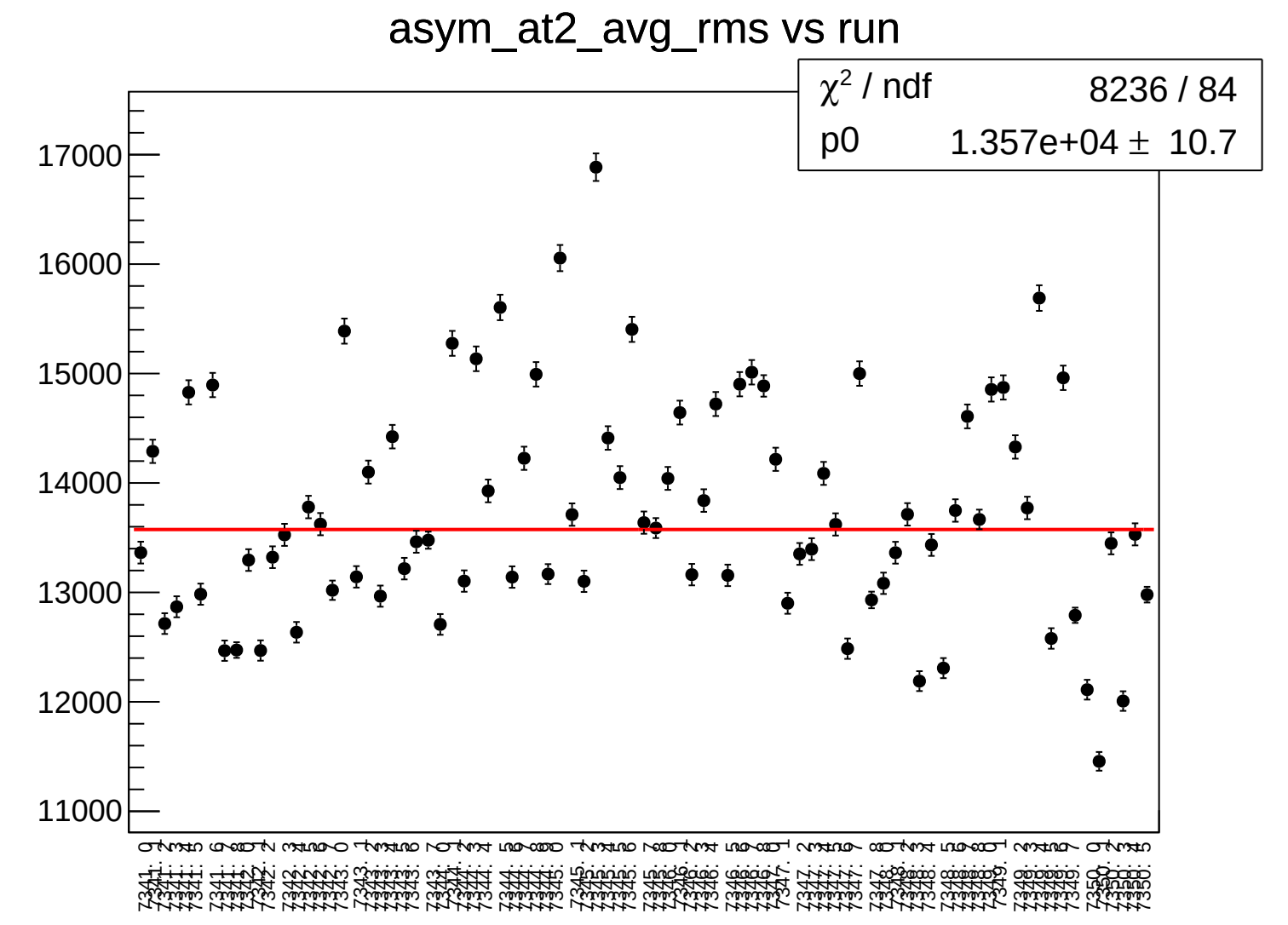

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.08 / 84
p0 −7652 ± 1.612e+04
400
200
0
−200
−400
pull
Entries 85
Mean −114.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

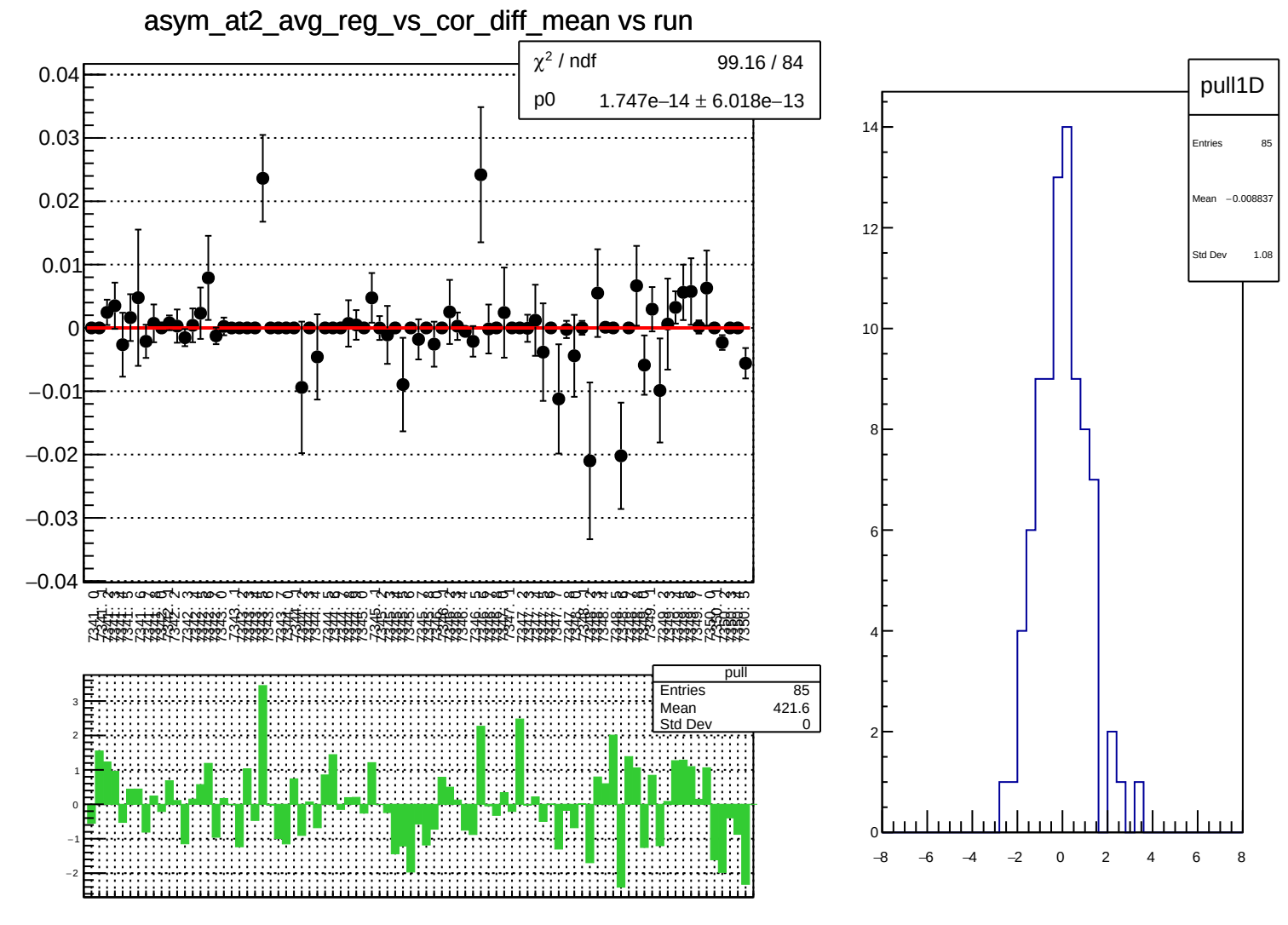

pull1D
Entries 85
Mean 0.02113
Std Dev 0.927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

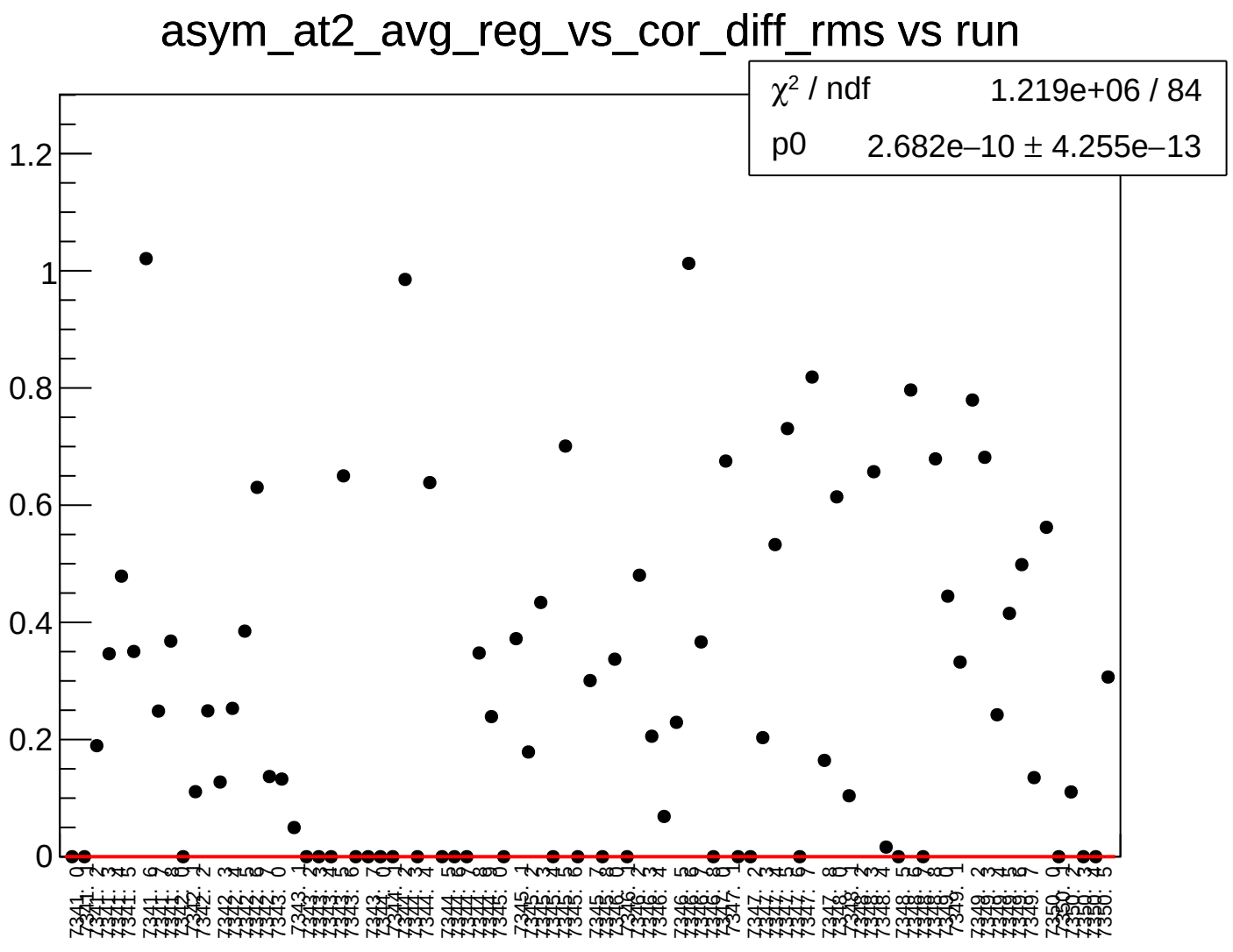

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7615 / 84
p0 1.446e+04 ± 11.4
18000
17000
16000
15000
14000
13000
12000

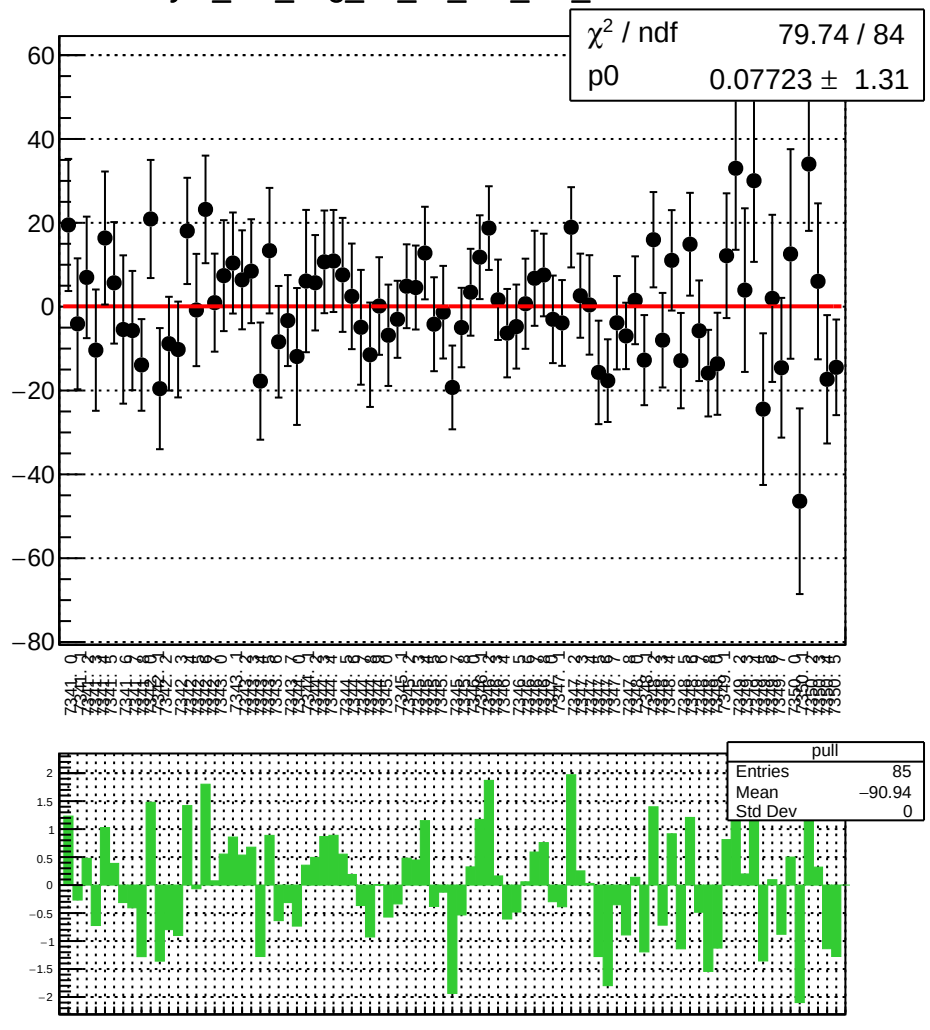

asym_at2_avg_mean vs run
×10^3
χ² / ndf 74.57 / 84
p0 1.19e+04 ± 1.514e+04
pull
Entries 85
Mean −131.2
Std Dev 0

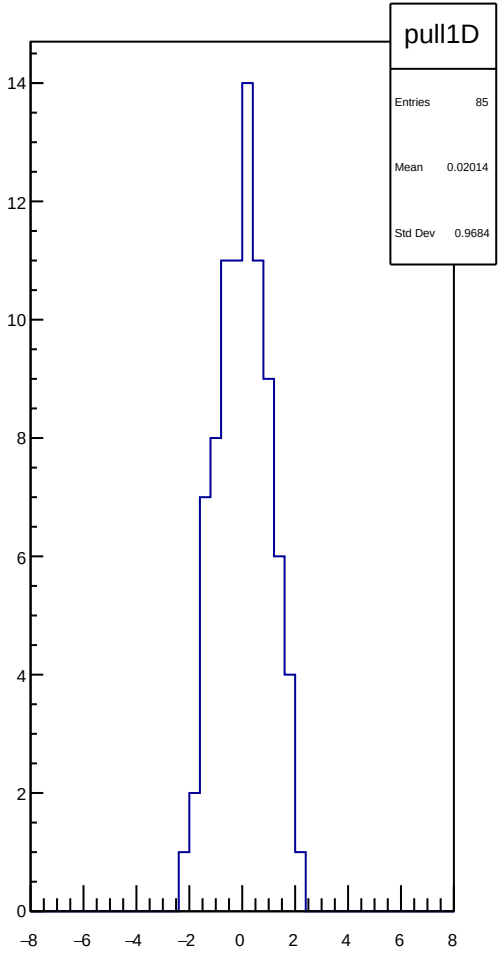

pull1D
Entries 85
Mean −0.02118
Std Dev 0.9364

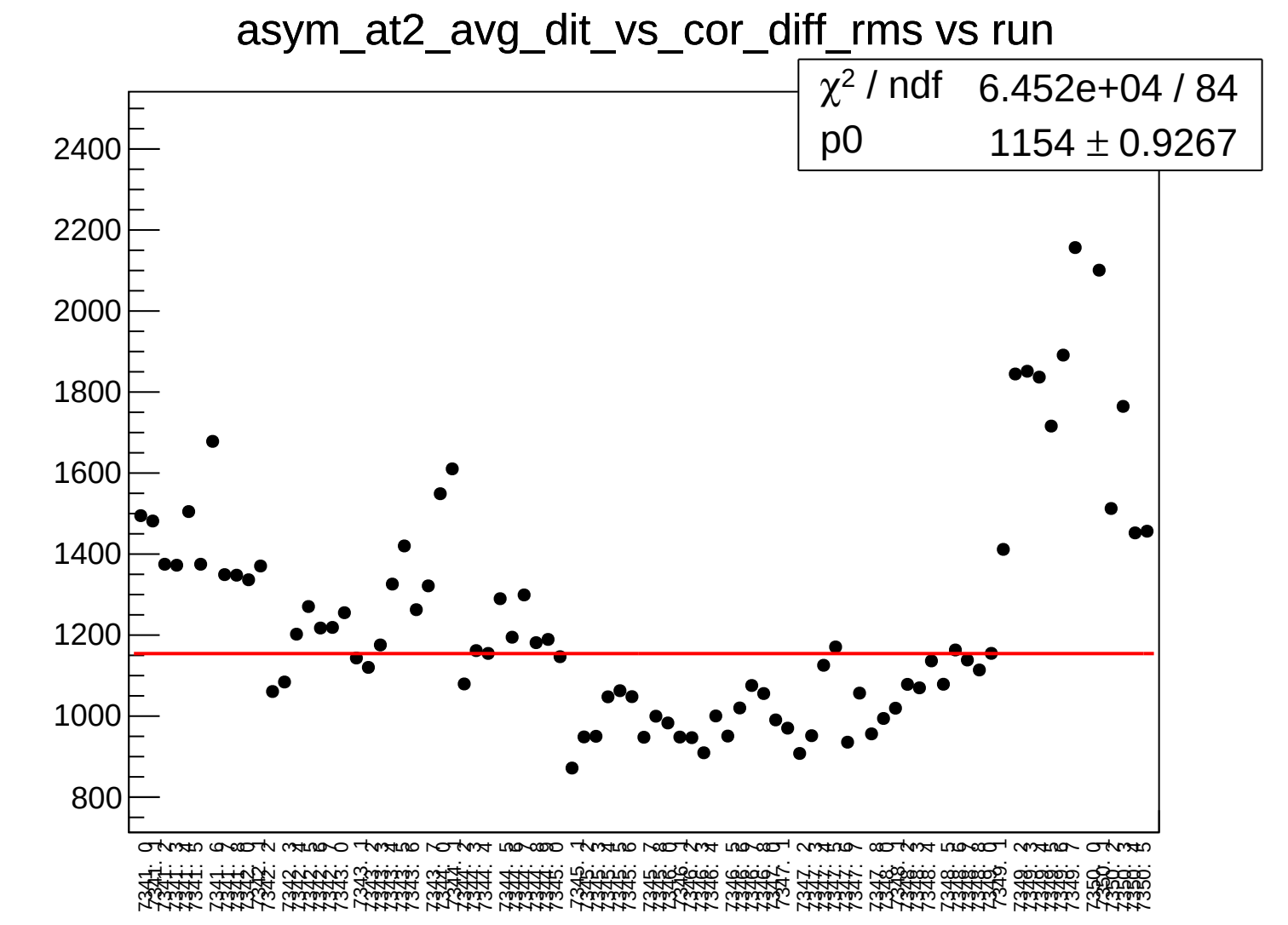

asym_at2_avg_rms vs run
χ² / ndf 8236 / 84
p0 1.357e+04 ± 10.7
17000
16000
15000
14000
13000
12000
11000

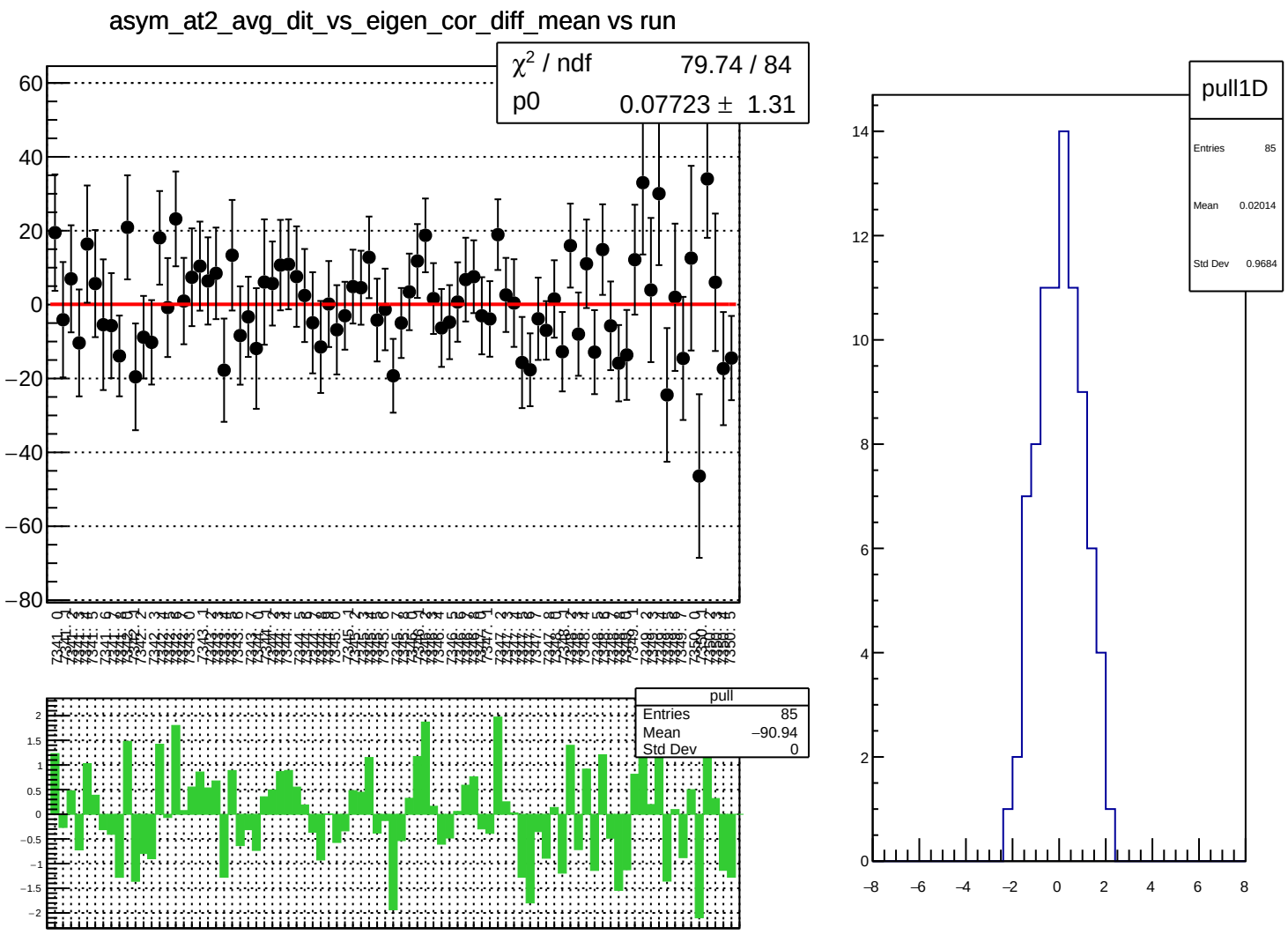

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.16 / 84
p0 1.747e−14 ± 6.018e−13
pull
Entries 85
Mean 421.6
Std Dev 0
pull1D
Entries 85
Mean −0.008837
Std Dev 1.08

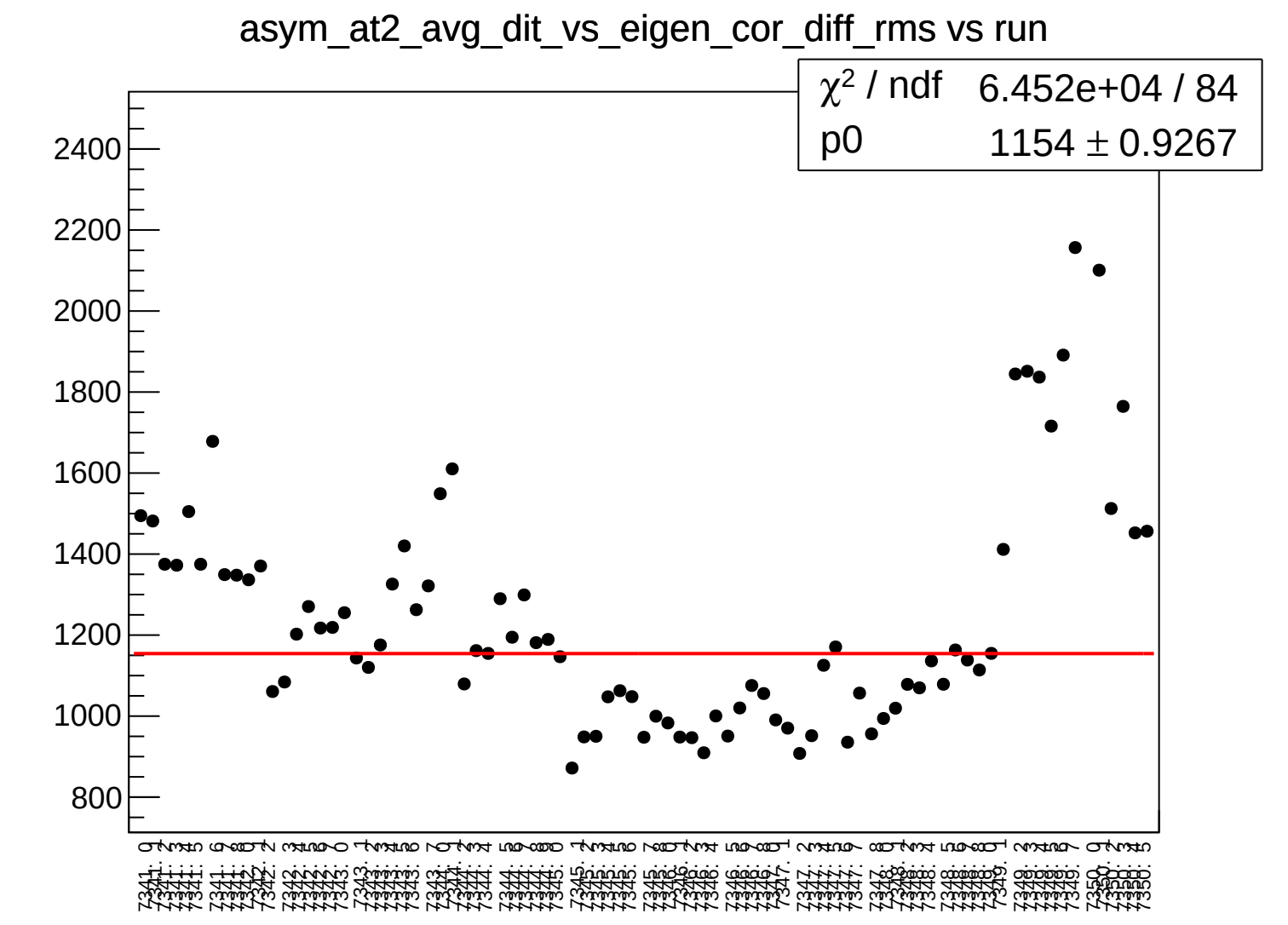

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.219e+06 / 84
p0 2.682e−10 ± 4.255e−13
1.2
1
0.8
0.6
0.4
0.2
0

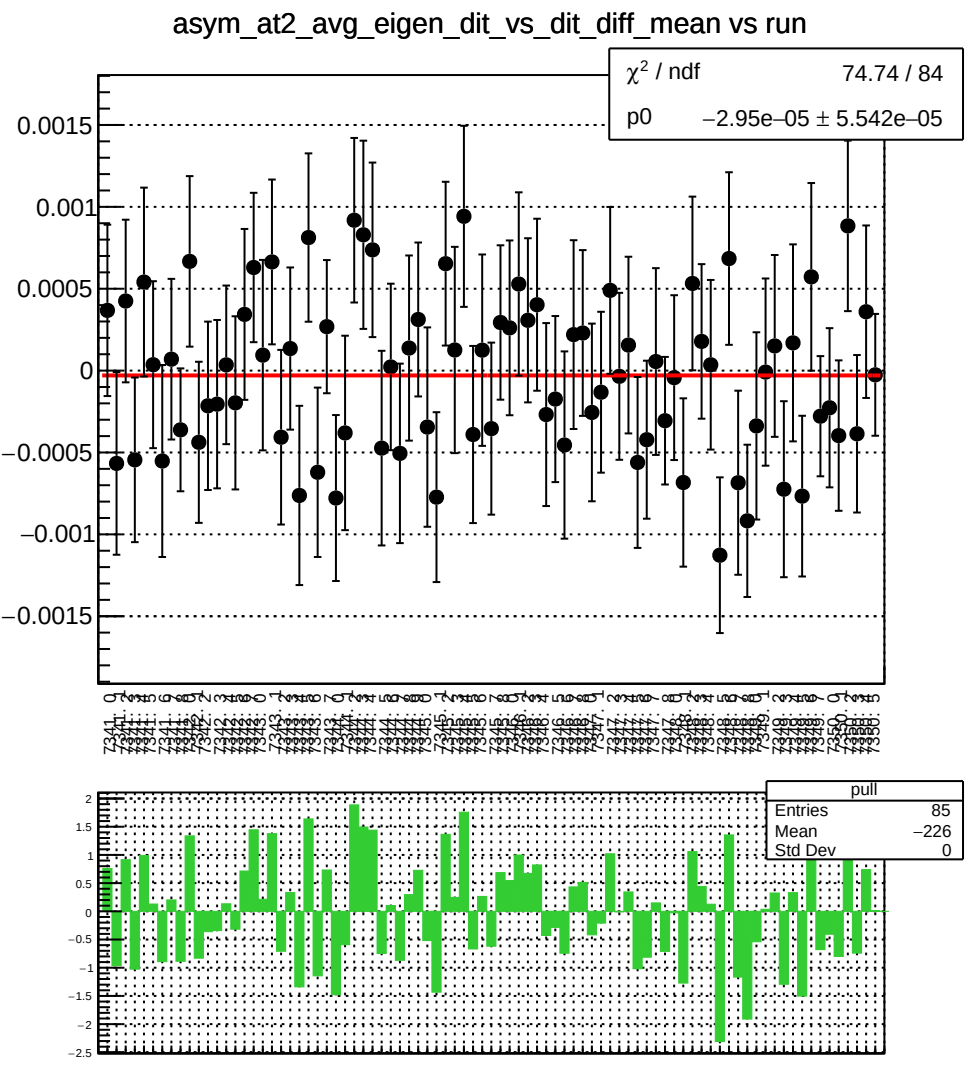

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.74 / 84
p0 0.07723 ± 1.31
pull
Entries 85
Mean −90.94
Std Dev 0

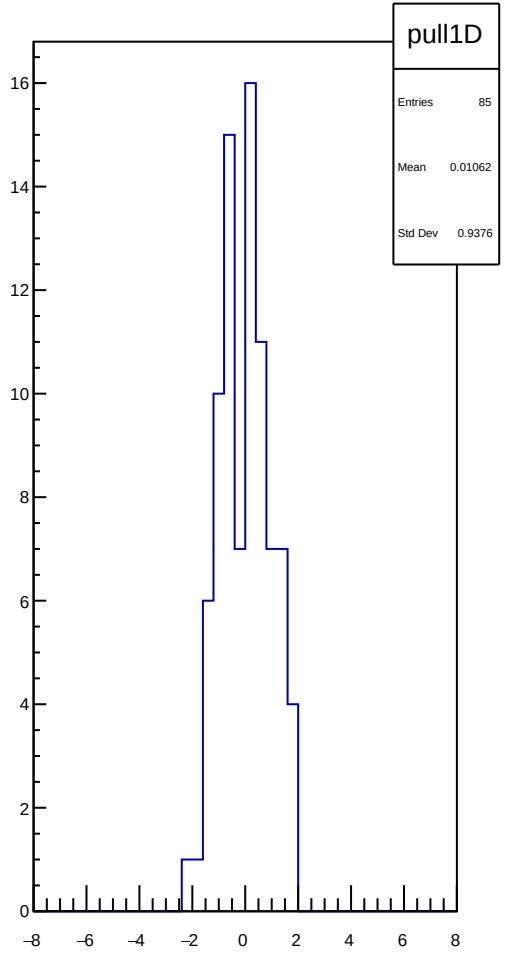

pull1D
Entries 85
Mean 0.02014
Std Dev 0.9684

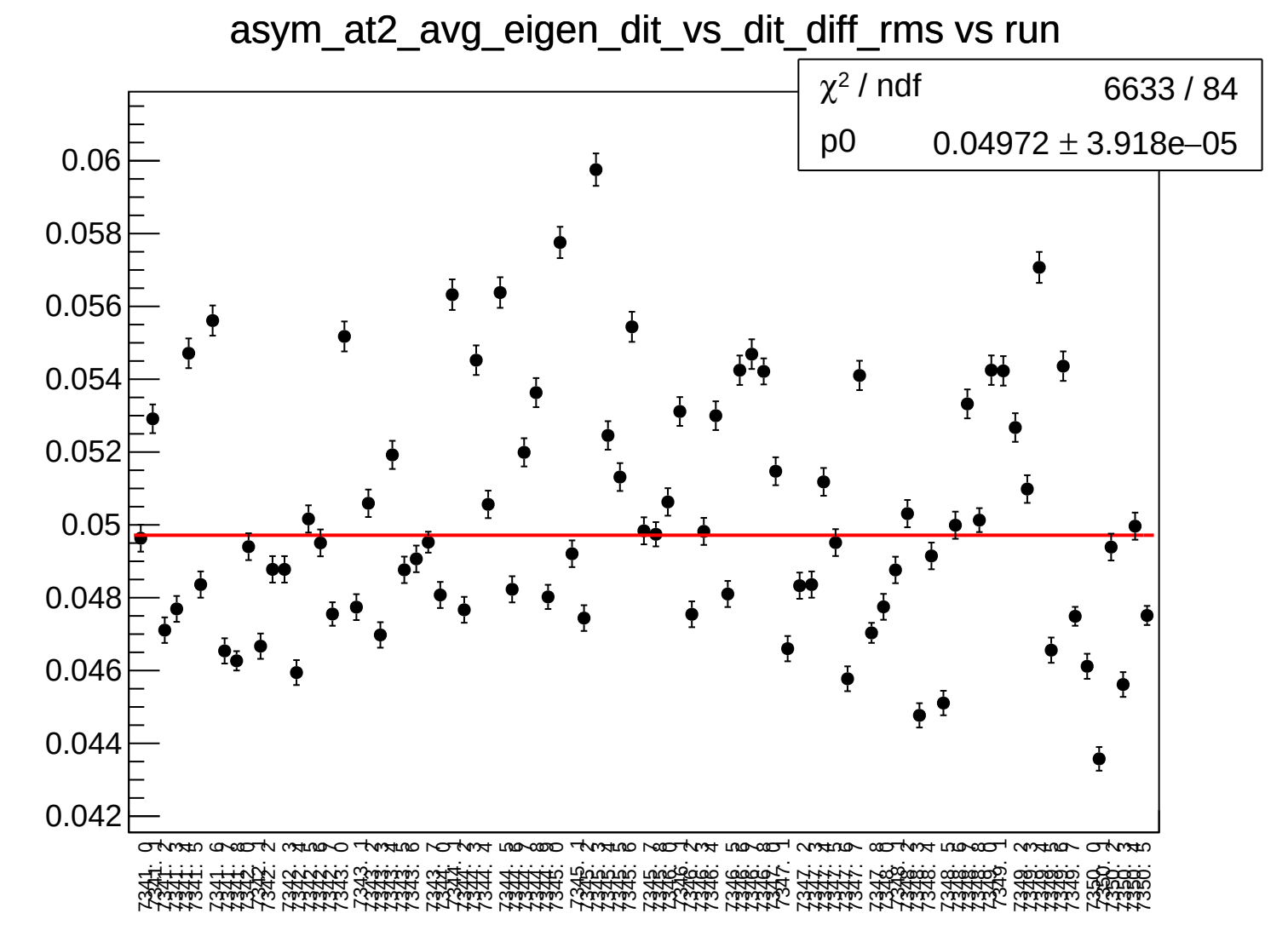

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.452e+04 / 84
p0 1154 ± 0.9267
2400
2200
2000
1800
1600
1400
1200
1000
800

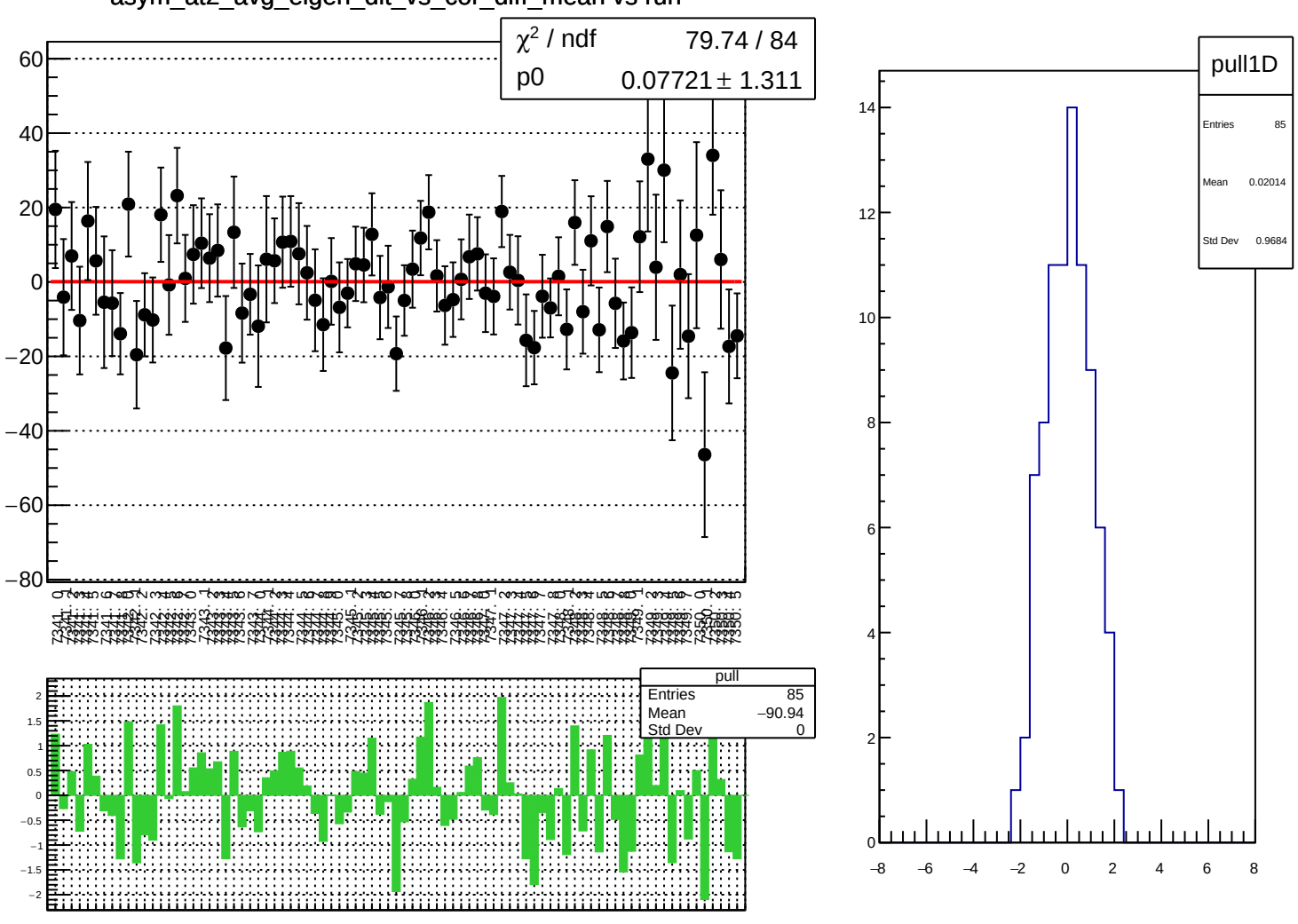

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.74 / 84
p0 0.07723 ± 1.31
pull
Entries 85
Mean −90.94
Std Dev 0
pull1D
Entries 85
Mean 0.02014
Std Dev 0.9684

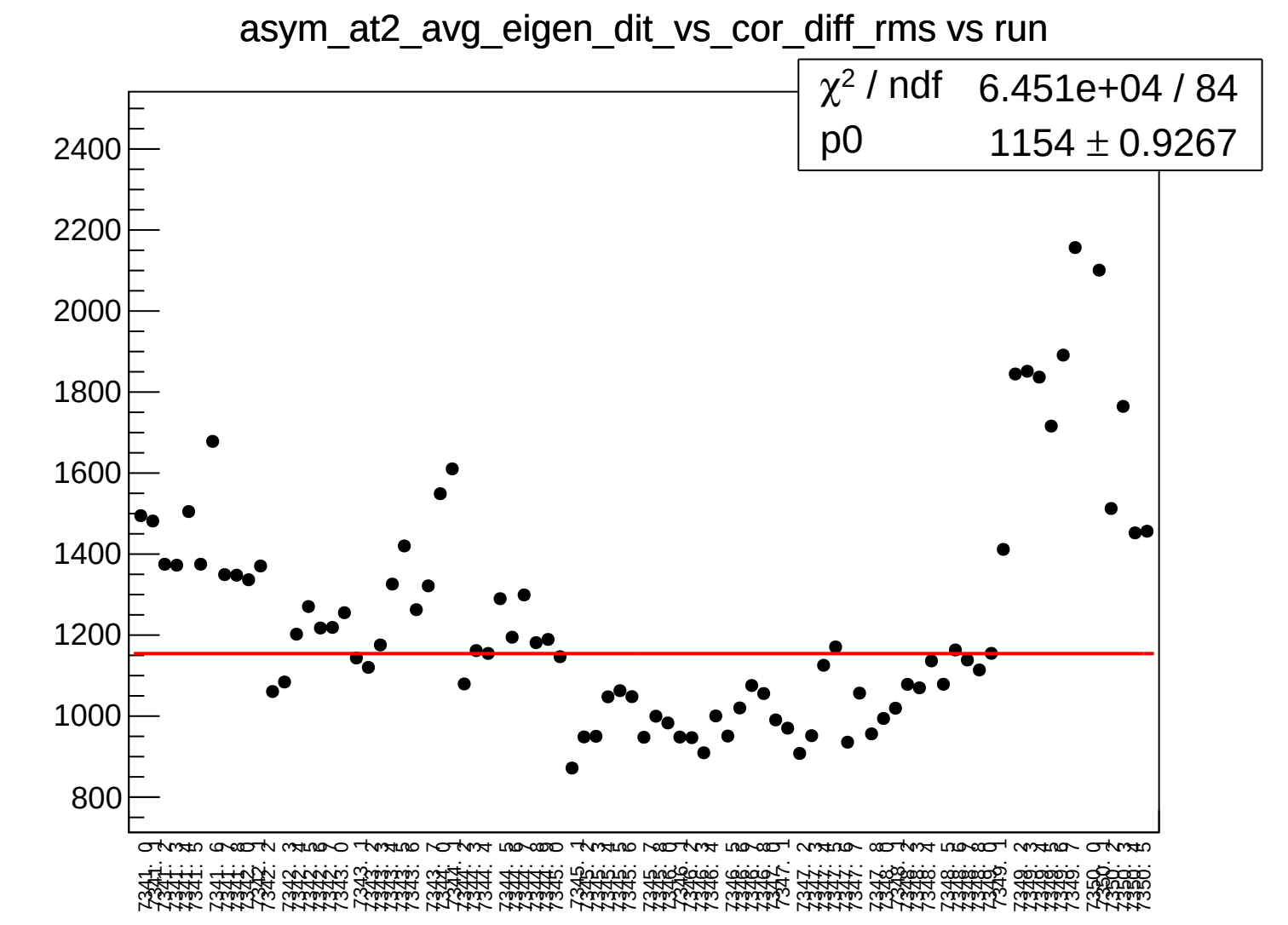

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.452e+04 / 84
p0 1154 ± 0.9267
2400
2200
2000
1800
1600
1400
1200
1000
800

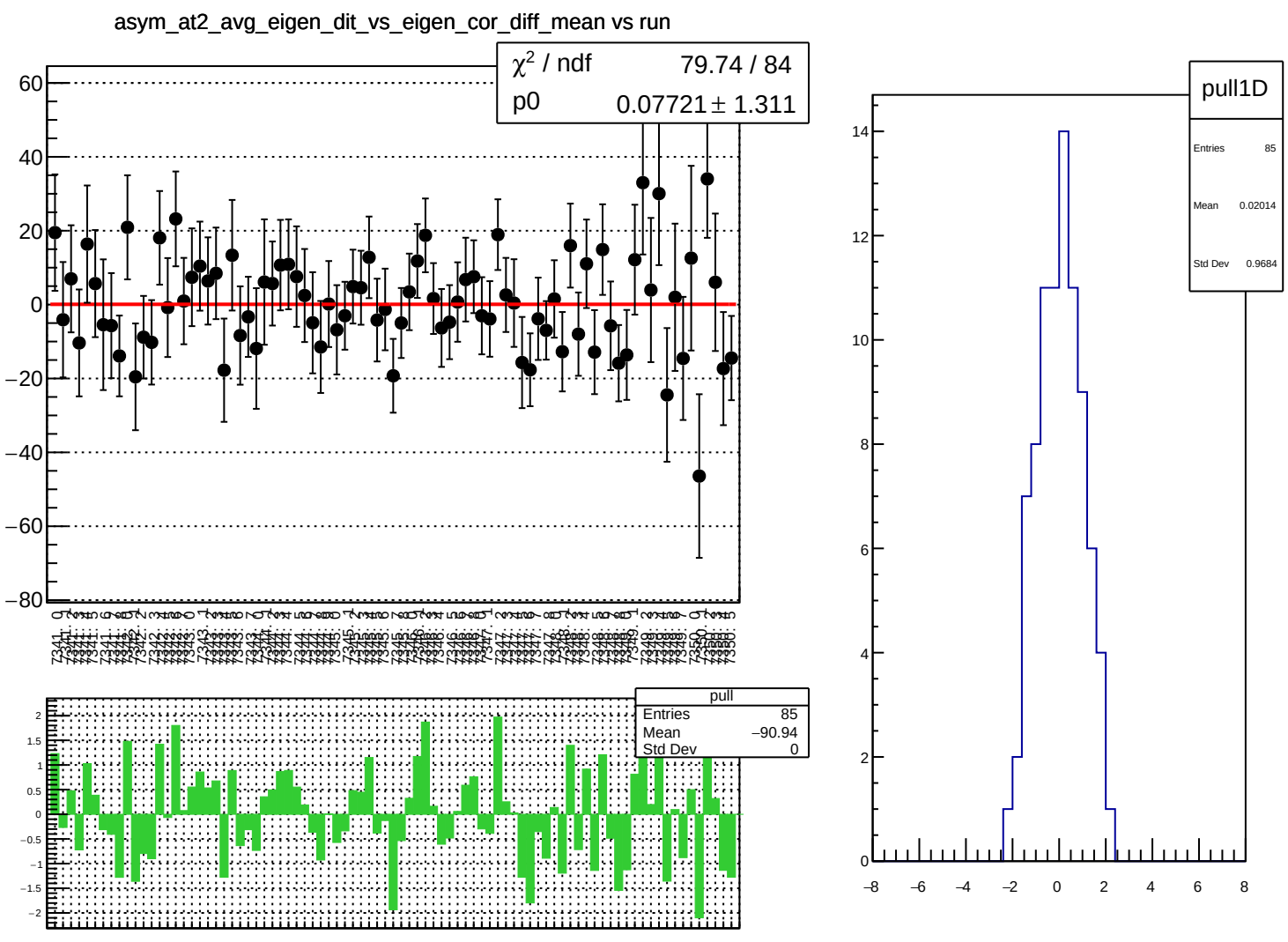

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.74 / 84
p0 −2.95e−05 ± 5.542e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean −226
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

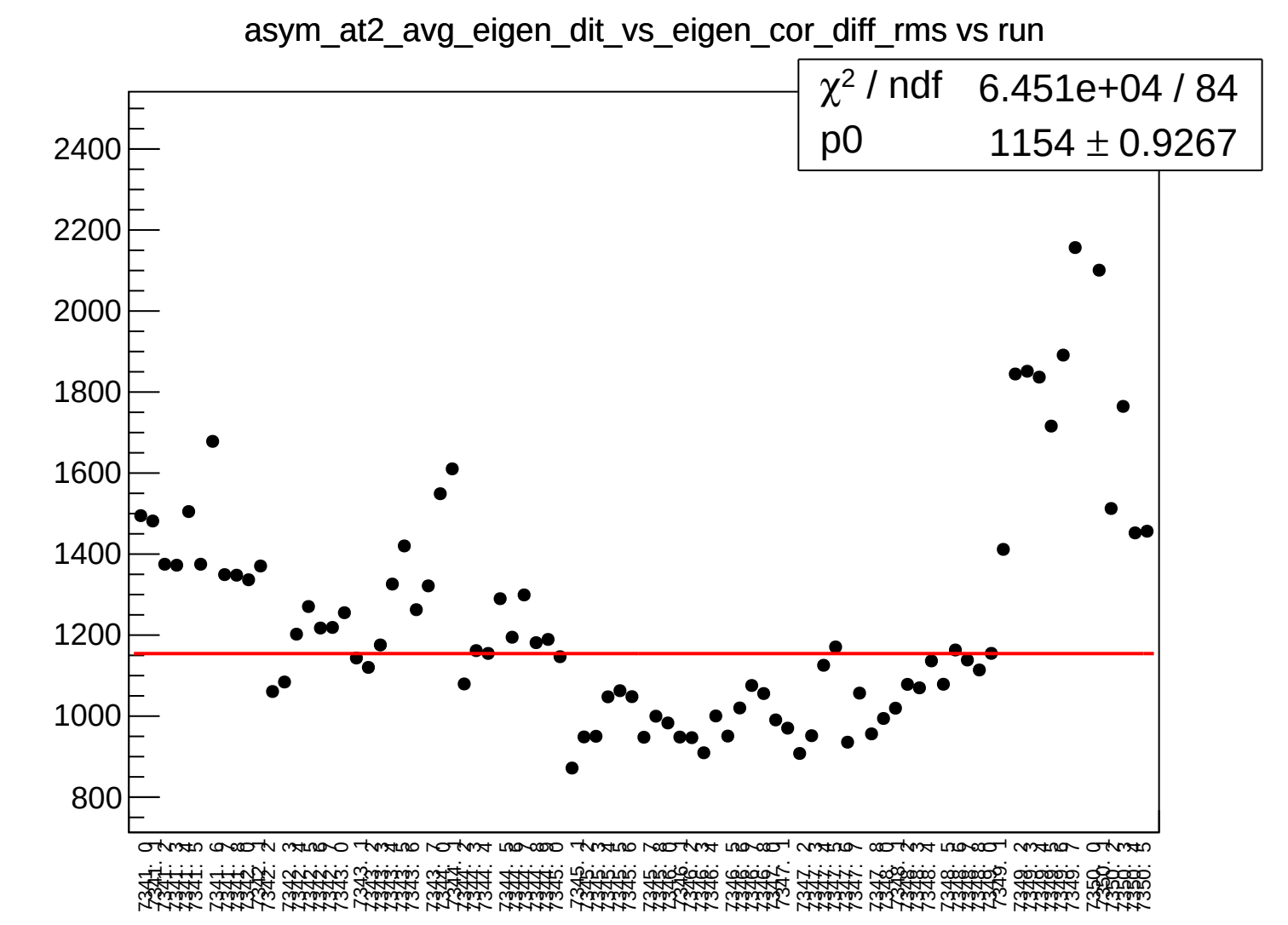

pull1D
Entries 85
Mean 0.01062
Std Dev 0.9376
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

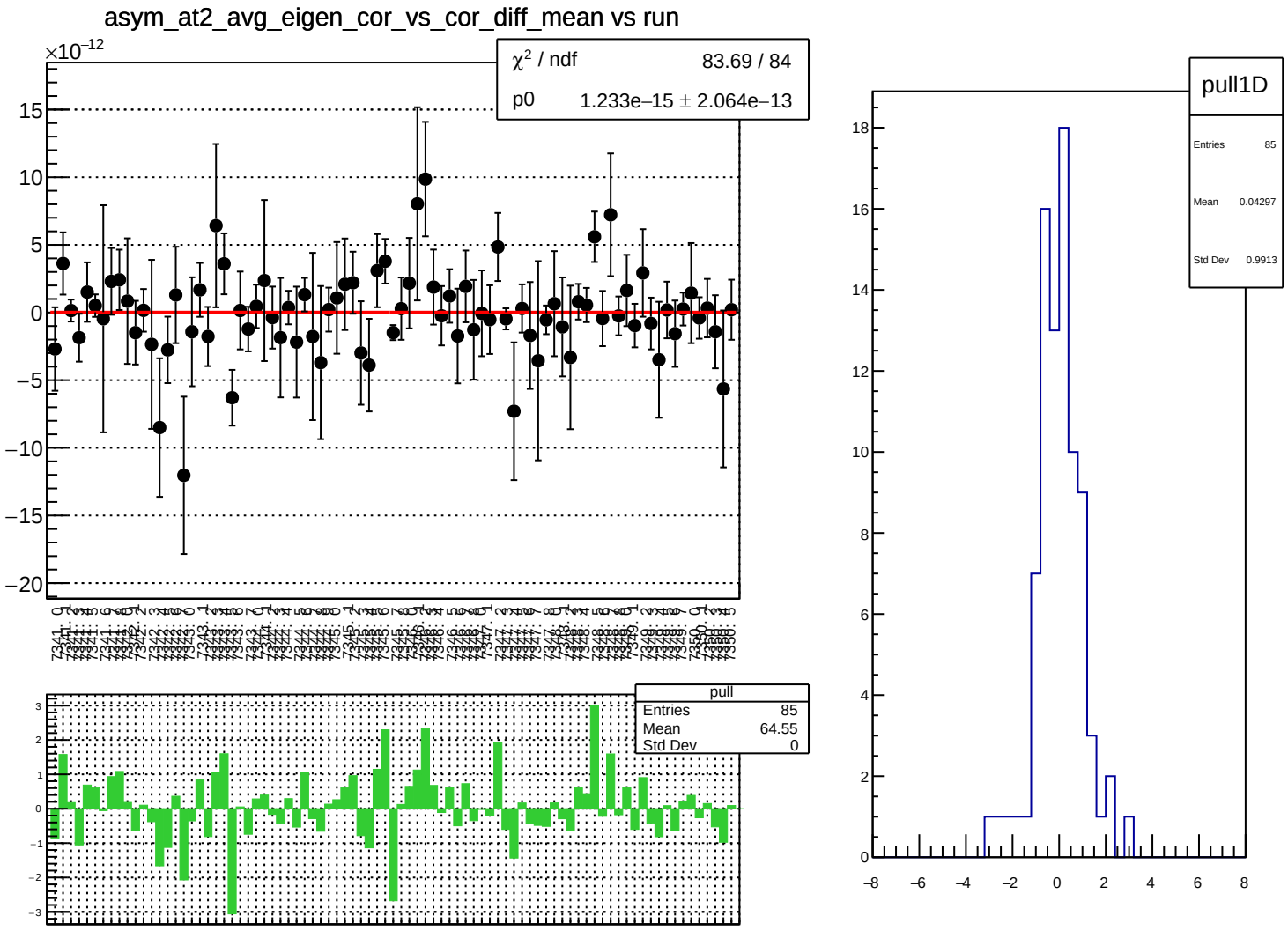

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6633 / 84
p0 0.04972 ± 3.918e−05
0.06
0.058
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0.042

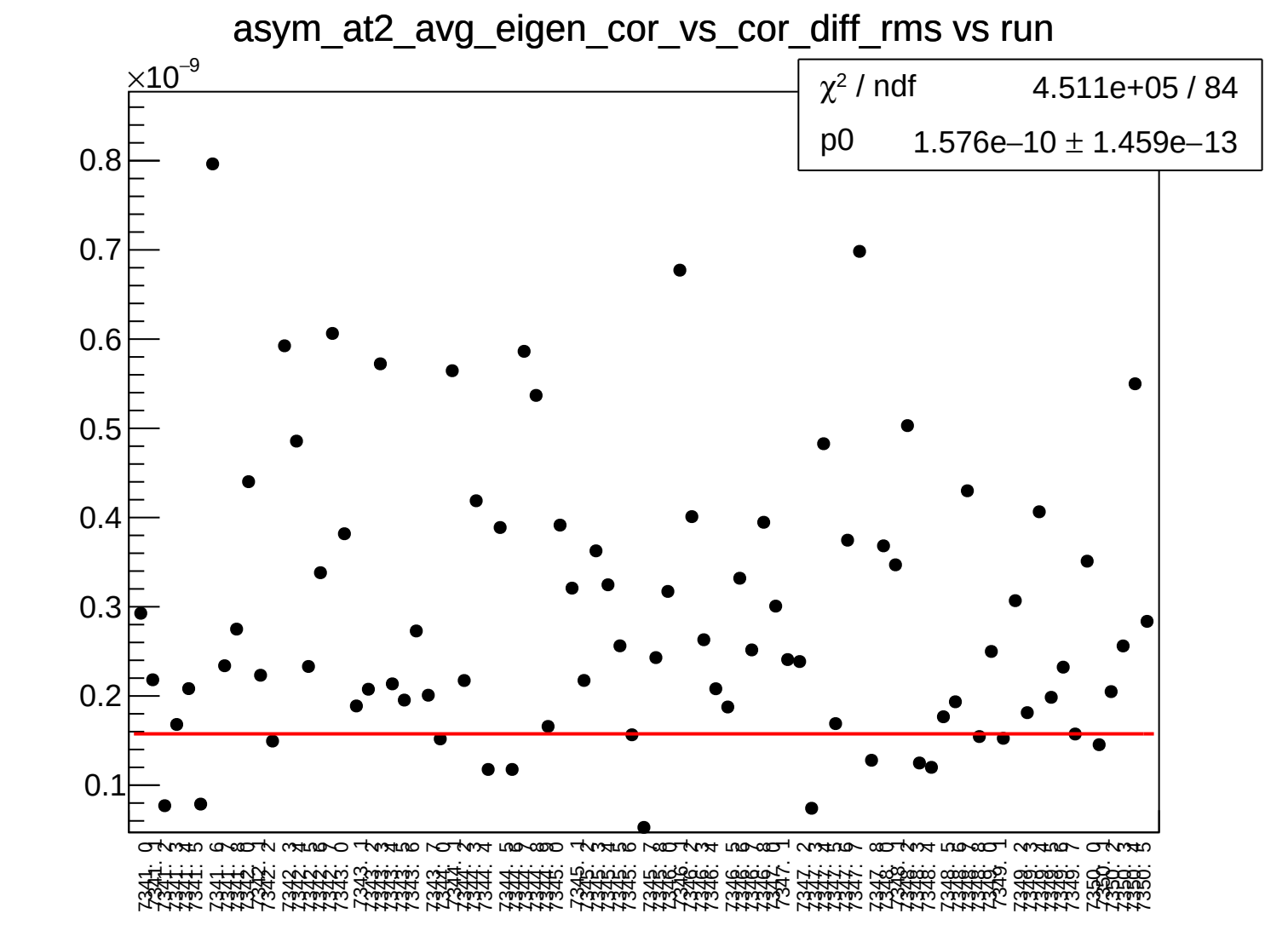

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.74 / 84
p0 0.07721 ± 1.311
pull
Entries 85
Mean −90.94
Std Dev 0
pull1D
Entries 85
Mean 0.02014
Std Dev 0.9684

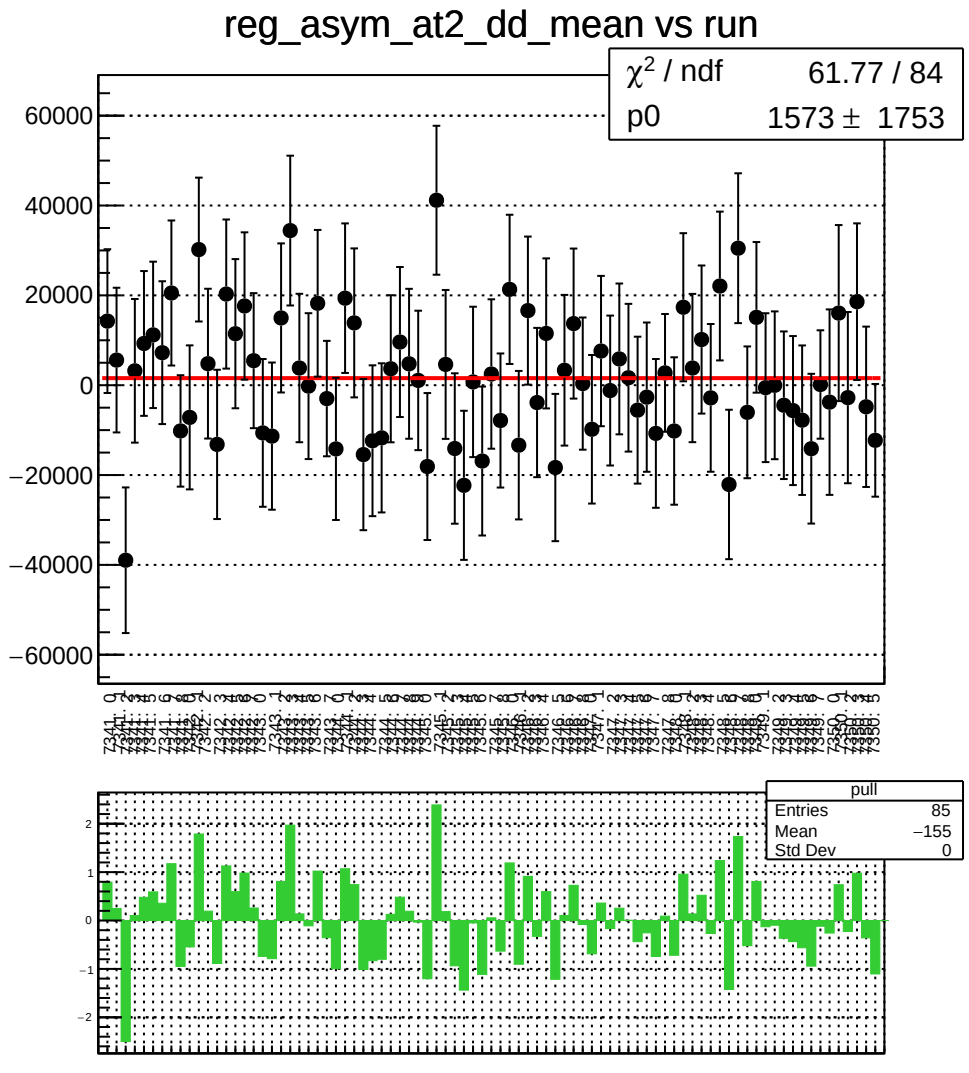

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.451e+04 / 84
p0 1154 ± 0.9267
2400
2200
2000
1800
1600
1400
1200
1000
800

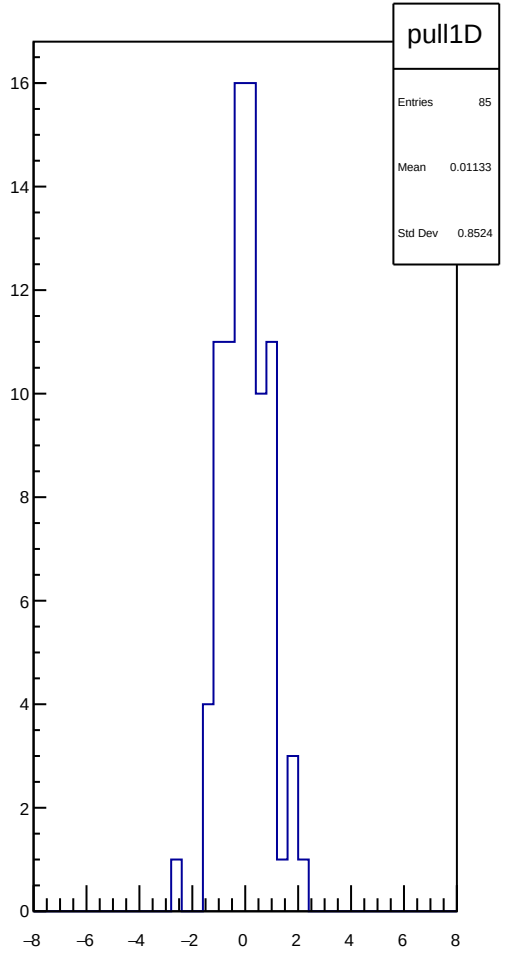

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.74 / 84
p0 0.07721 ± 1.311
pull
Entries 85
Mean −90.94
Std Dev 0
pull1D
Entries 85
Mean 0.02014
Std Dev 0.9684

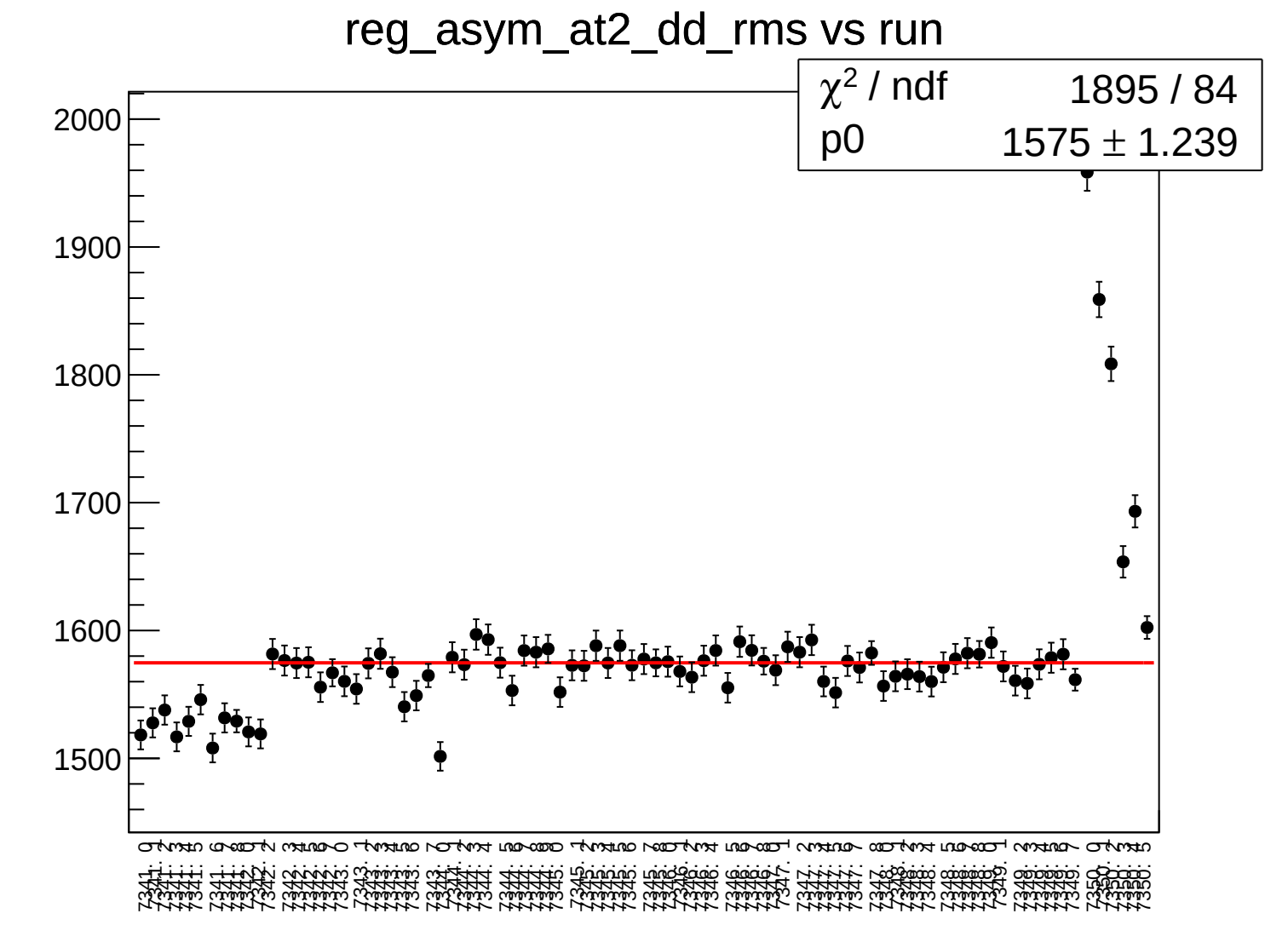

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.451e+04 / 84
p0 1154 ± 0.9267
2400
2200
2000
1800
1600
1400
1200
1000
800

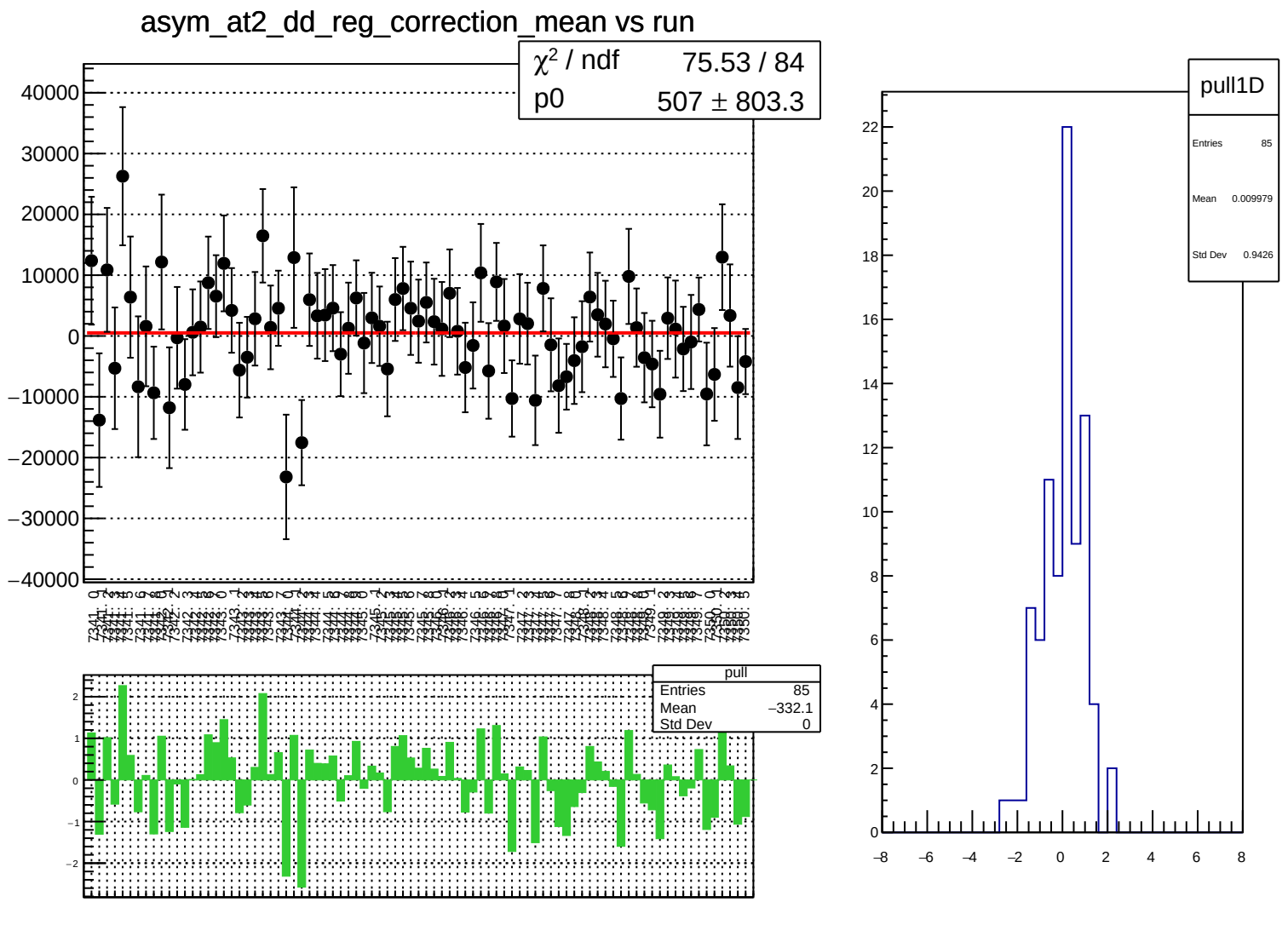

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.69 / 84
p0 1.233e−15 ± 2.064e−13
pull
Entries 85
Mean 64.55
Std Dev 0
pull1D
Entries 85
Mean 0.04297
Std Dev 0.9913

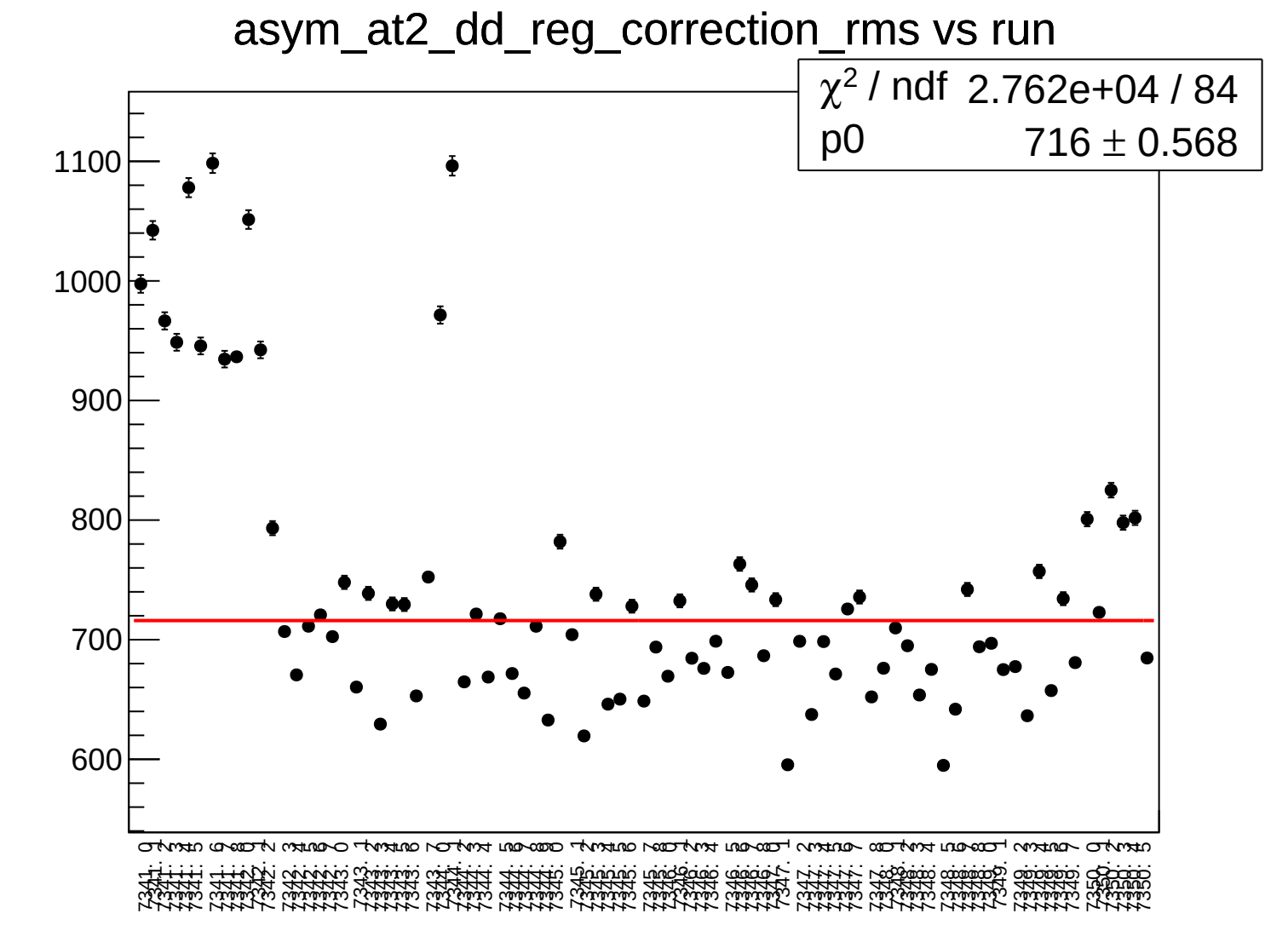

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.511e+05 / 84
p0 1.576e−10 ± 1.459e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

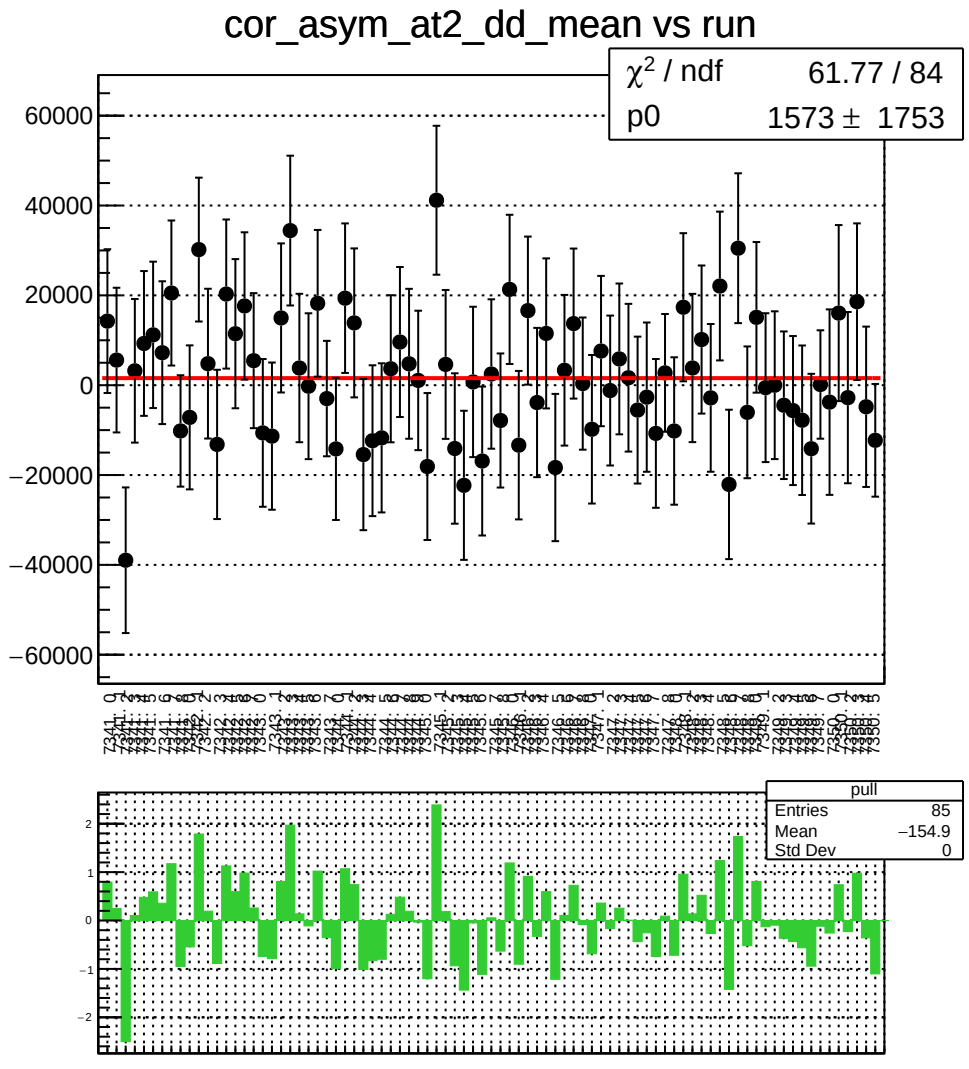

reg_asym_at2_dd_mean vs run
χ² / ndf 61.77 / 84
p0 1573 ± 1753
pull
Entries 85
Mean −155
Std Dev 0

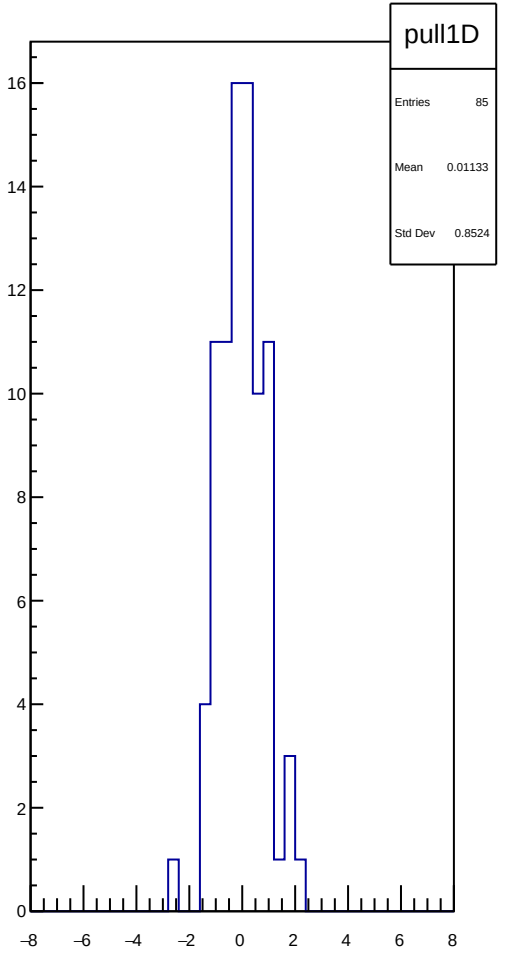

pull1D
Entries 85
Mean 0.01133
Std Dev 0.8524

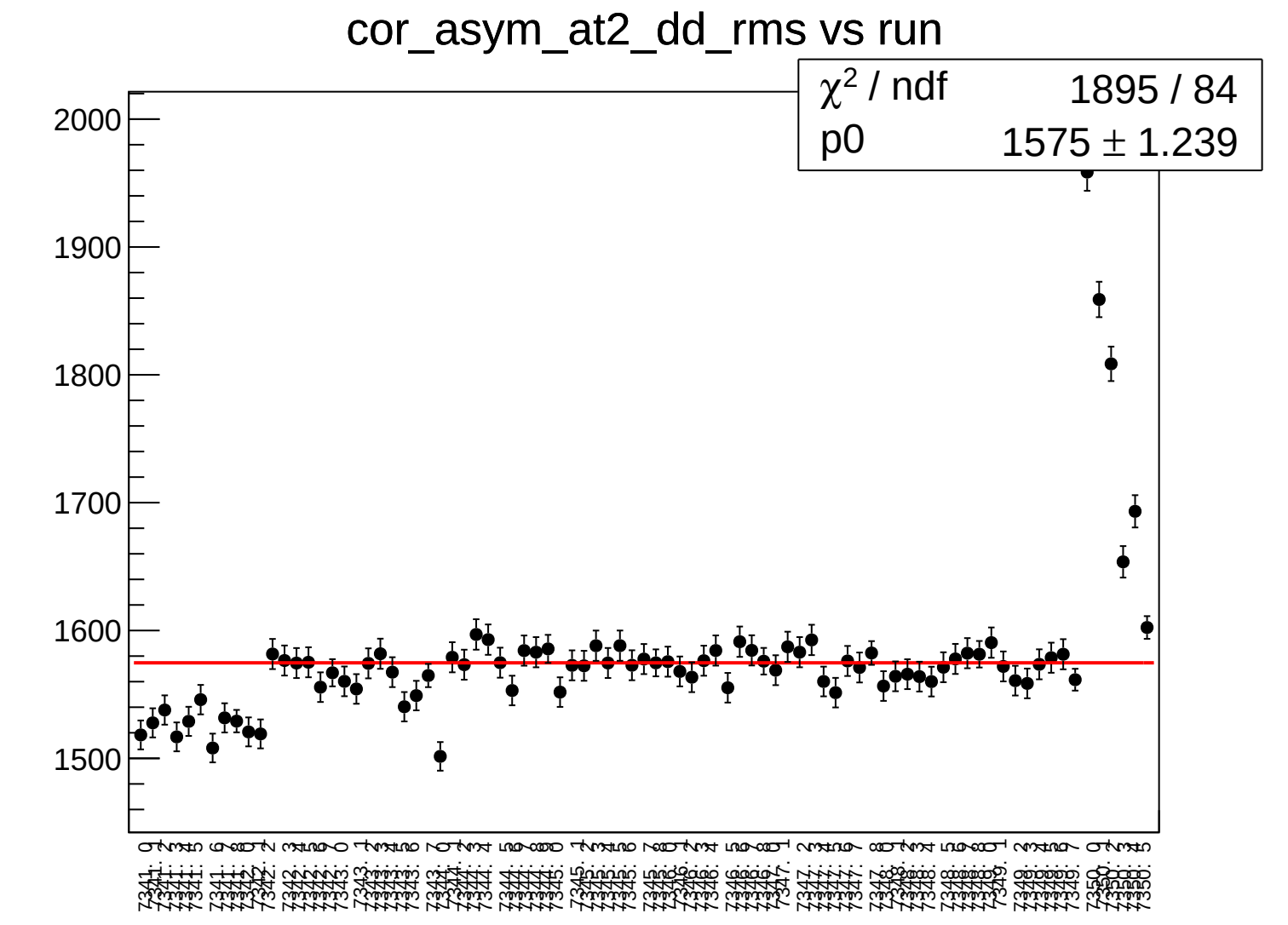

reg_asym_at2_dd_rms vs run
χ^2 / ndf 1895 / 84
p0 1575 ± 1.239
2000
1900
1800
1700
1600
1500

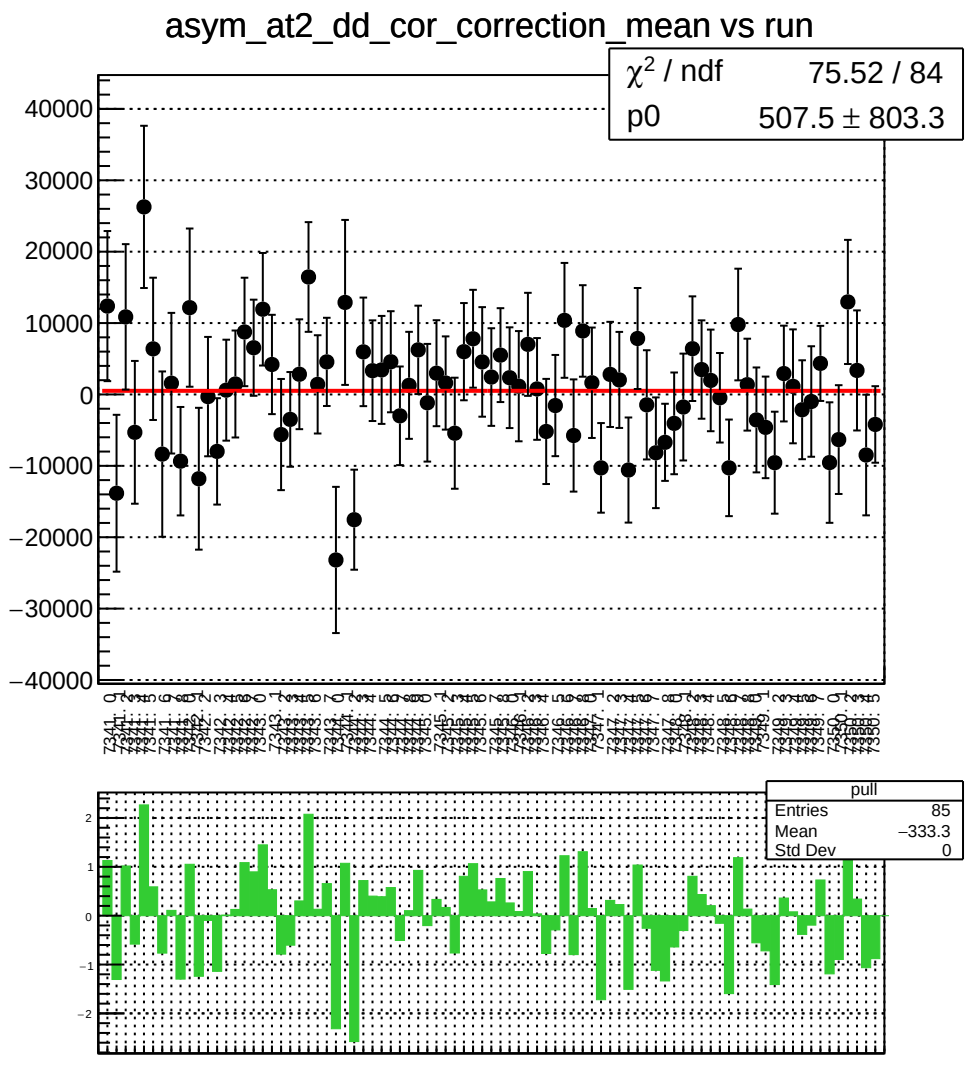

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 75.53 / 84
p0 507 ± 803.3
pull
Entries 85
Mean −332.1
Std Dev 0
pull1D
Entries 85
Mean 0.009979
Std Dev 0.9426

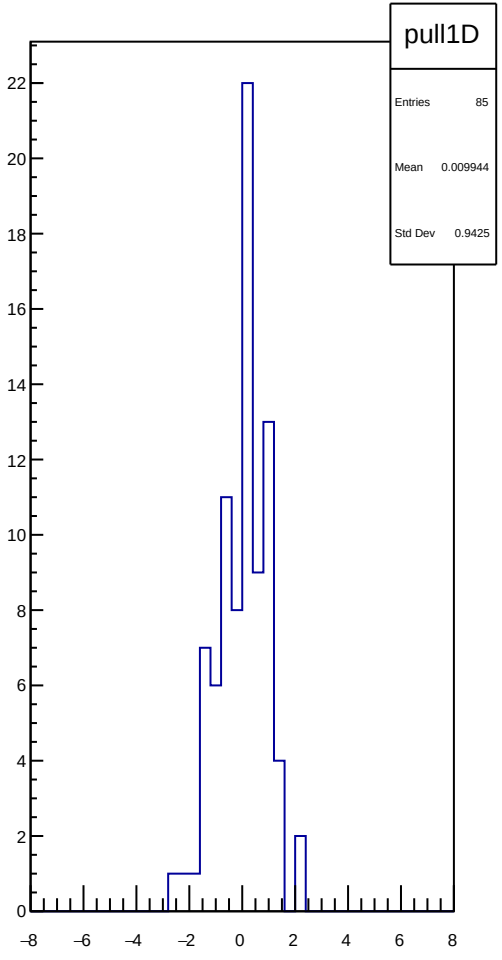

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2.762e+04 / 84
p0 716 ± 0.568
1100
1000
900
800
700
600

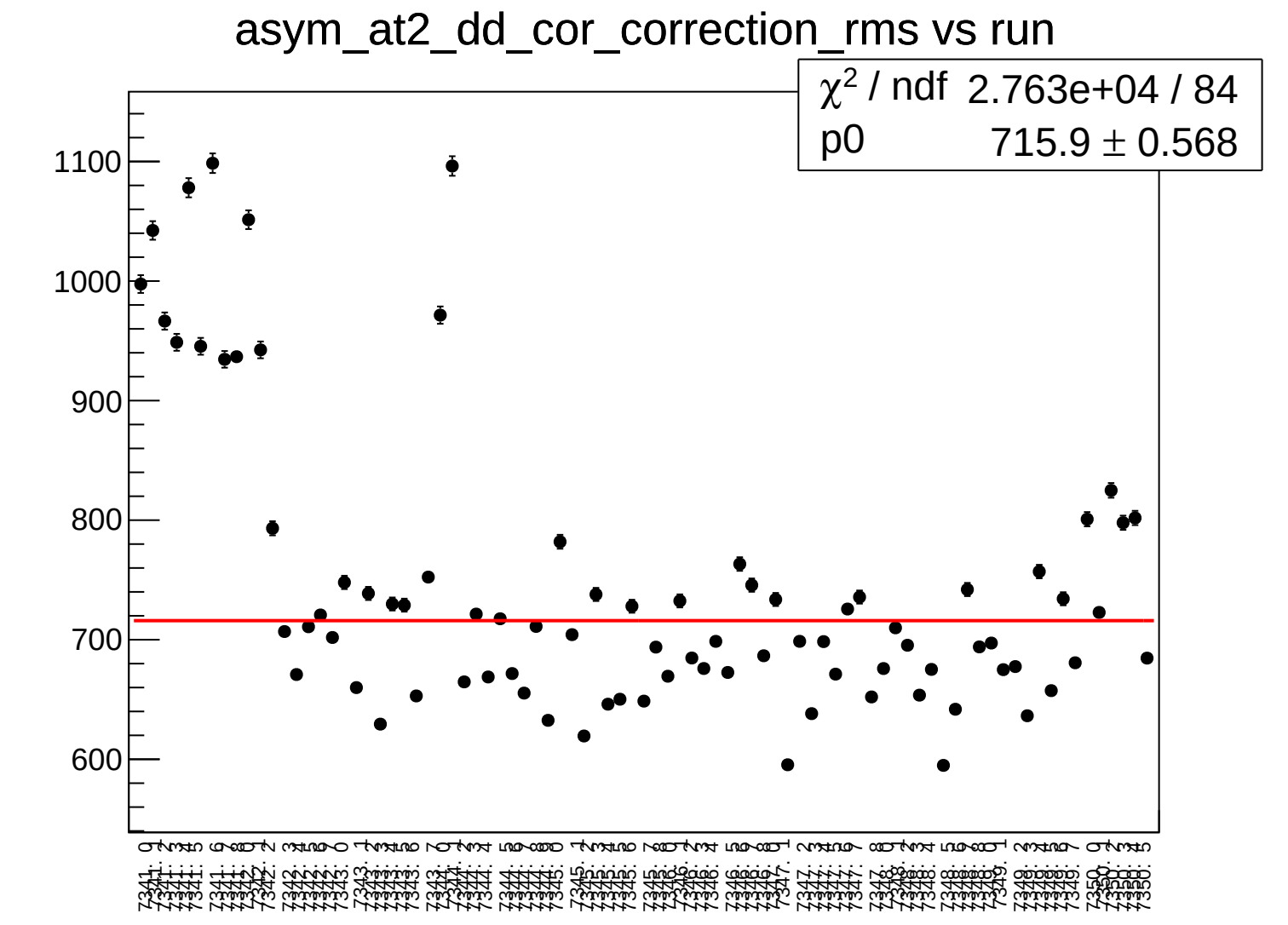

cor_asym_at2_dd_mean vs run
χ² / ndf 61.77 / 84
p0 1573 ± 1753
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −154.9
Std Dev 0
2
1
0
−1
−2

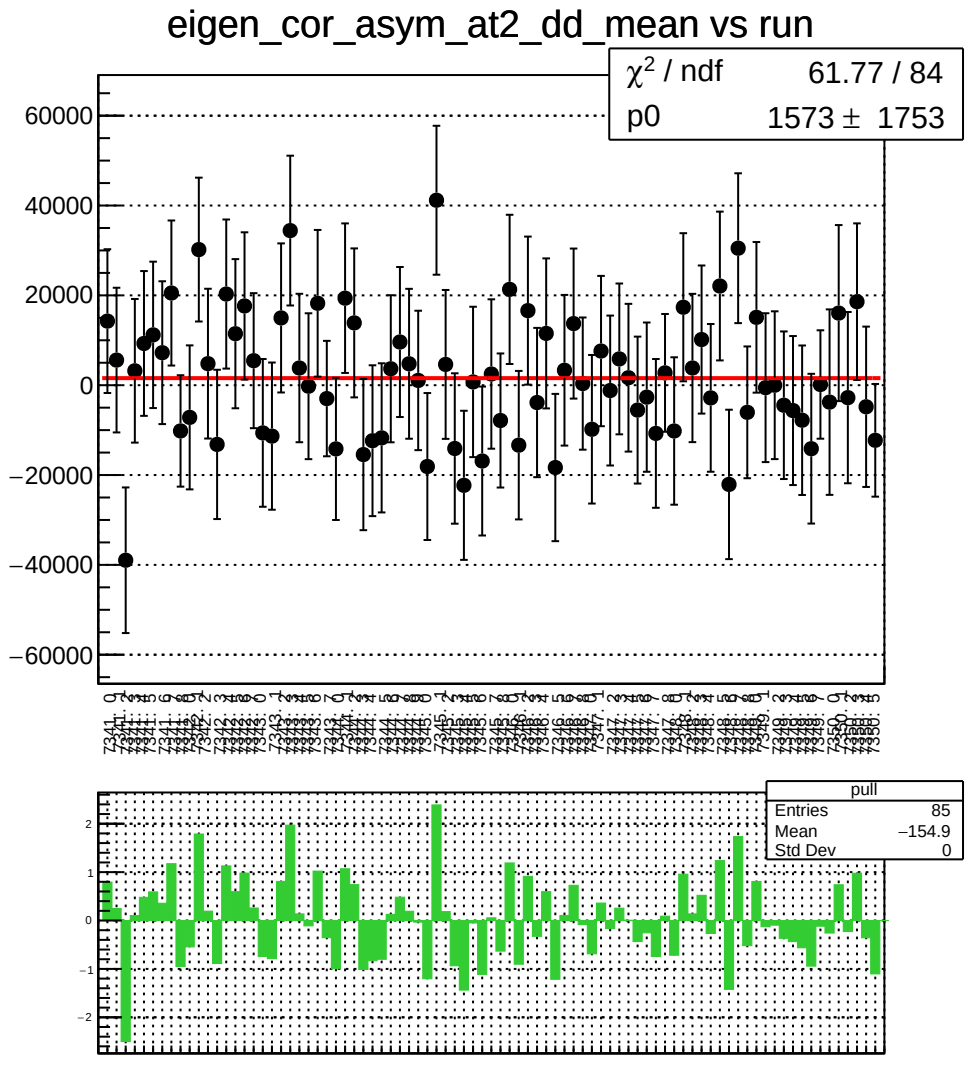

pull1D
Entries 85
Mean 0.01133
Std Dev 0.8524
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

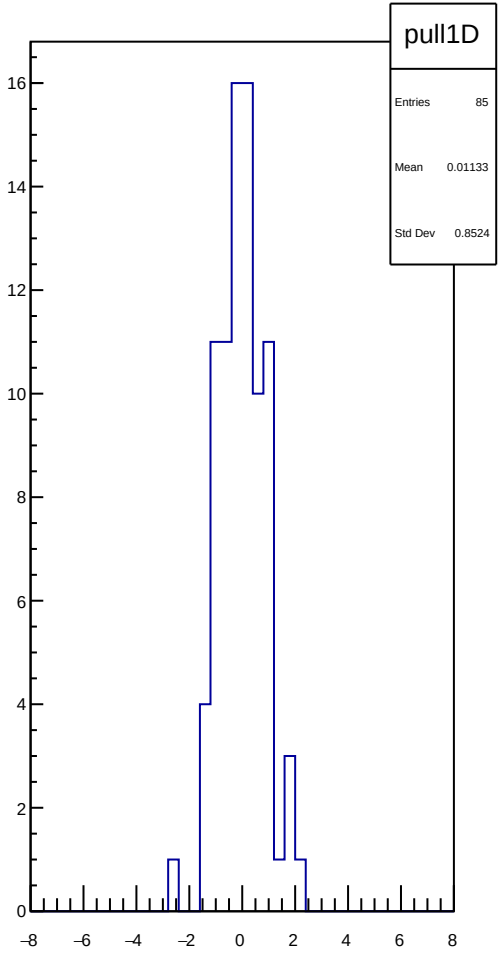

cor_asym_at2_dd_rms vs run
χ² / ndf 1895 / 84
p0 1575 ± 1.239
2000
1900
1800
1700
1600
1500

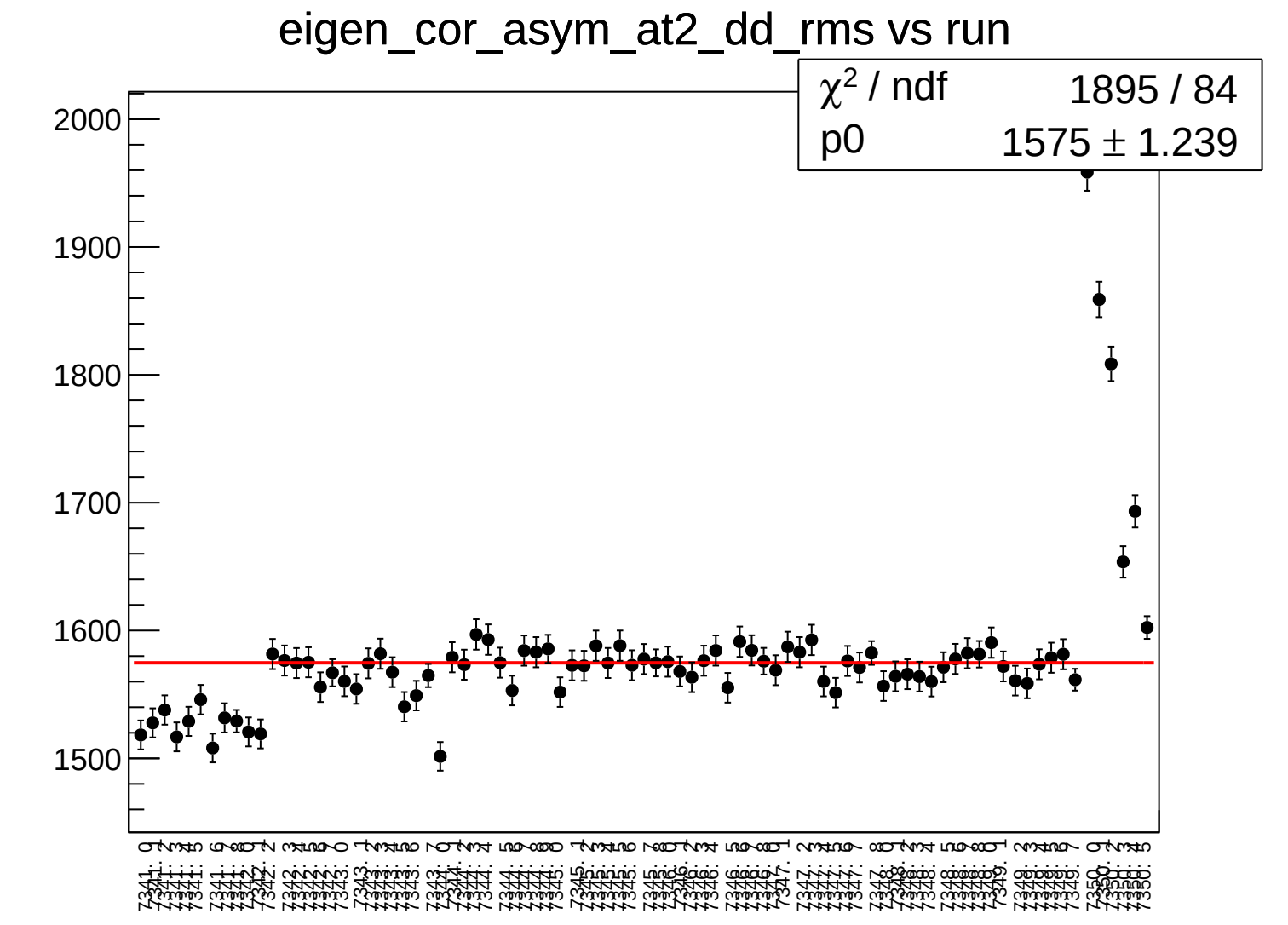

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 75.52 / 84
p0 507.5 ± 803.3
pull
Entries 85
Mean −333.3
Std Dev 0

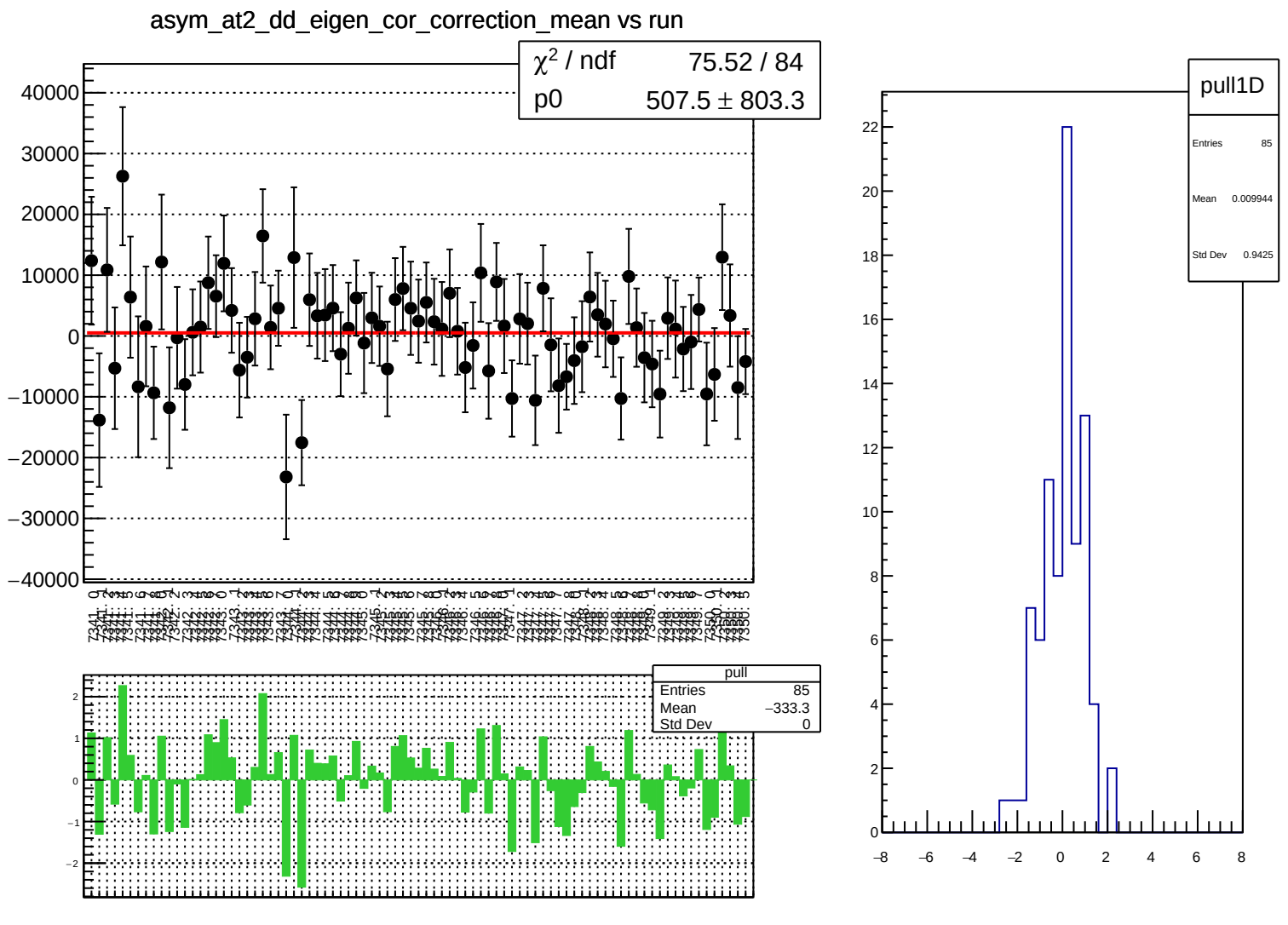

pull1D
Entries 85
Mean 0.009944
Std Dev 0.9425

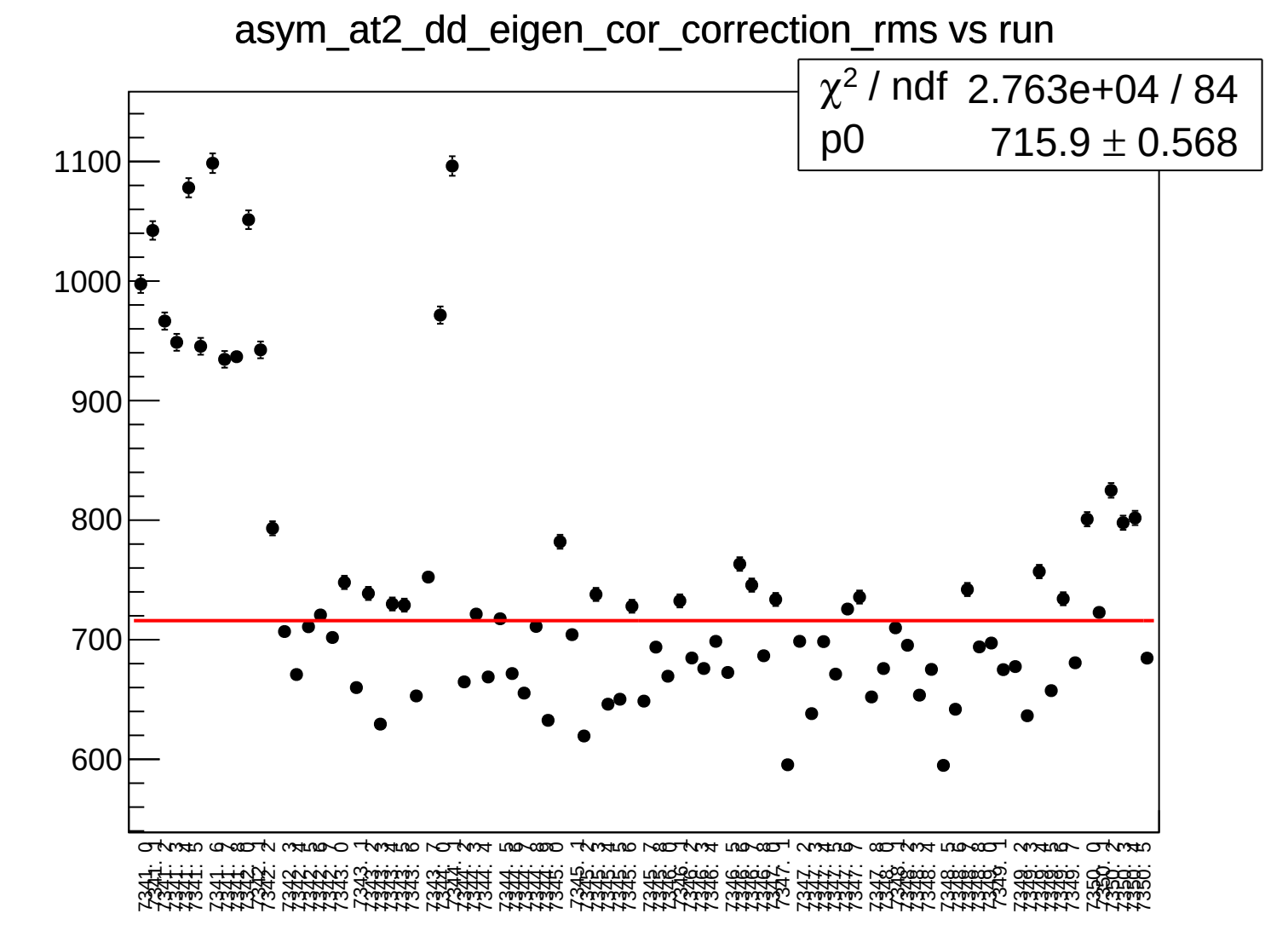

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2.763e+04 / 84
p0 715.9 ± 0.568
1100
1000
900
800
700
600

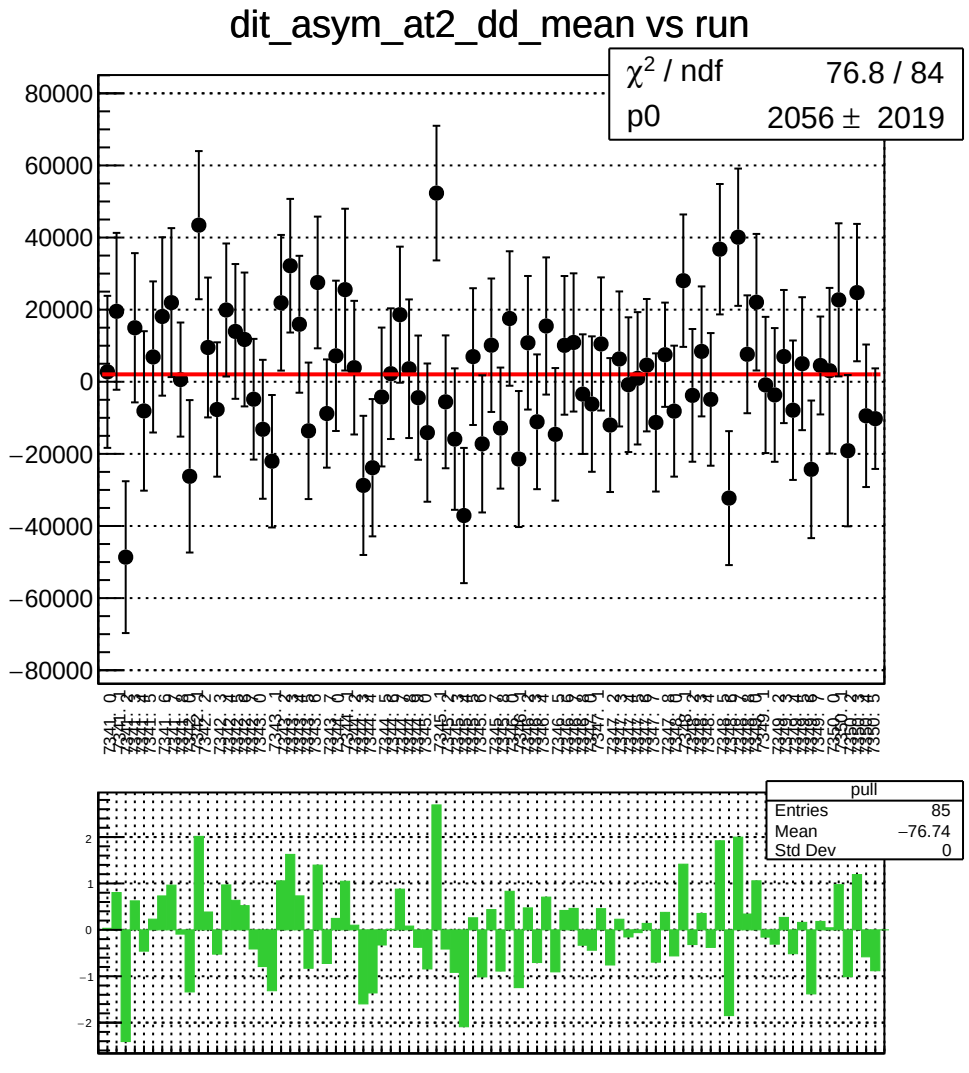

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 61.77 / 84
p0 1573 ± 1753
pull
Entries 85
Mean −154.9
Std Dev 0

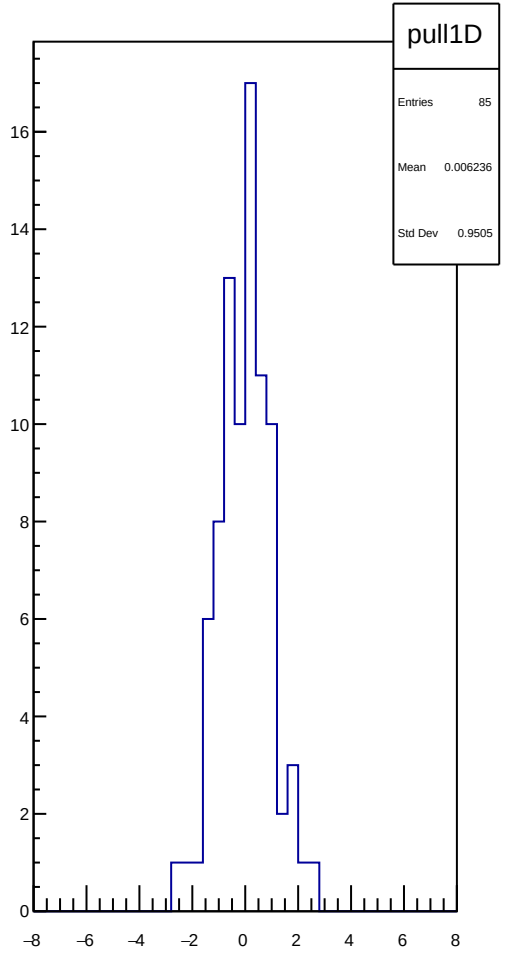

pull1D
Entries 85
Mean 0.01133
Std Dev 0.8524

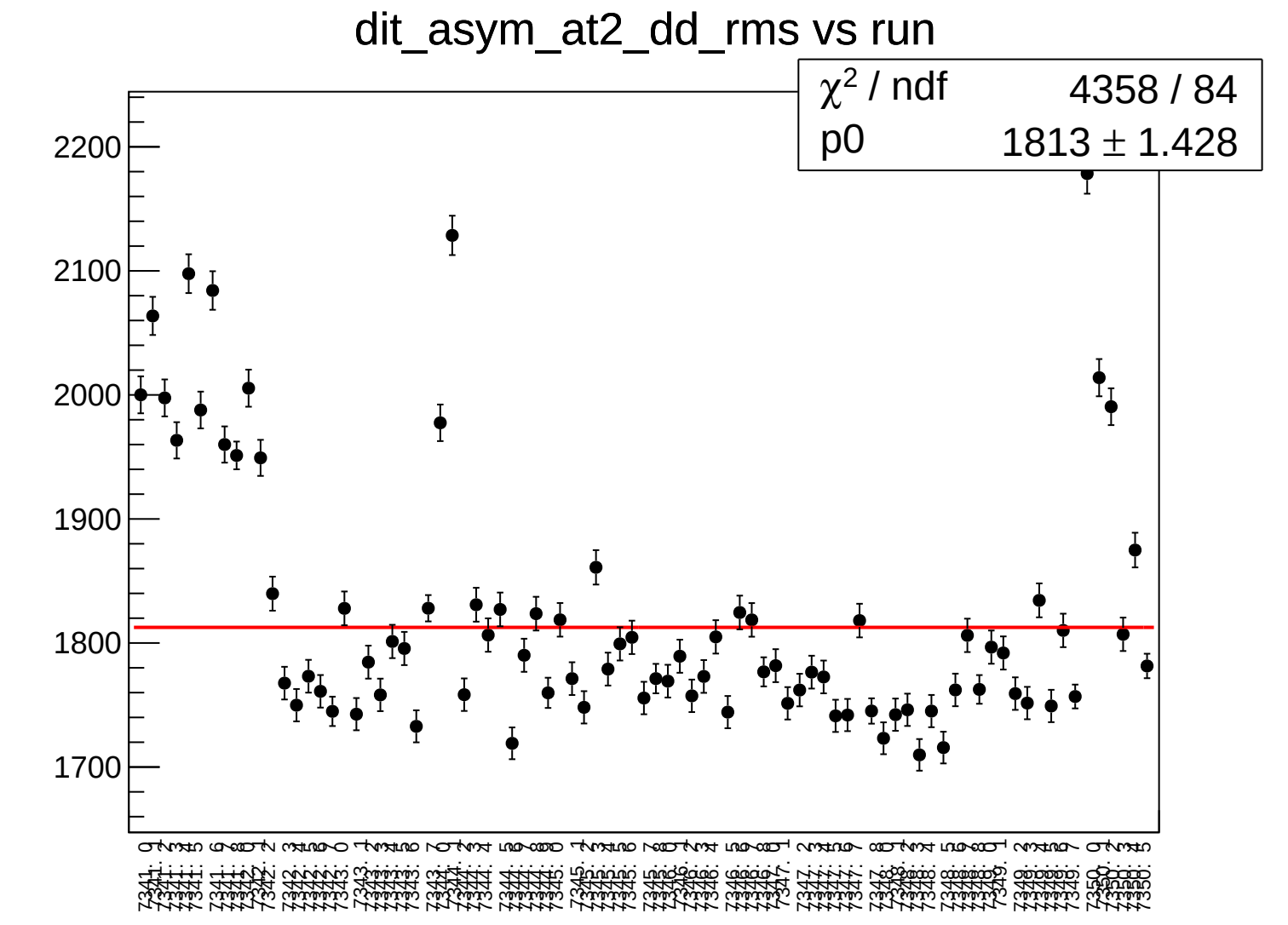

eigen_cor_asym_at2_dd_rms vs run
χ^2 / ndf 1895 / 84
p0 1575 ± 1.239
2000
1900
1800
1700
1600
1500

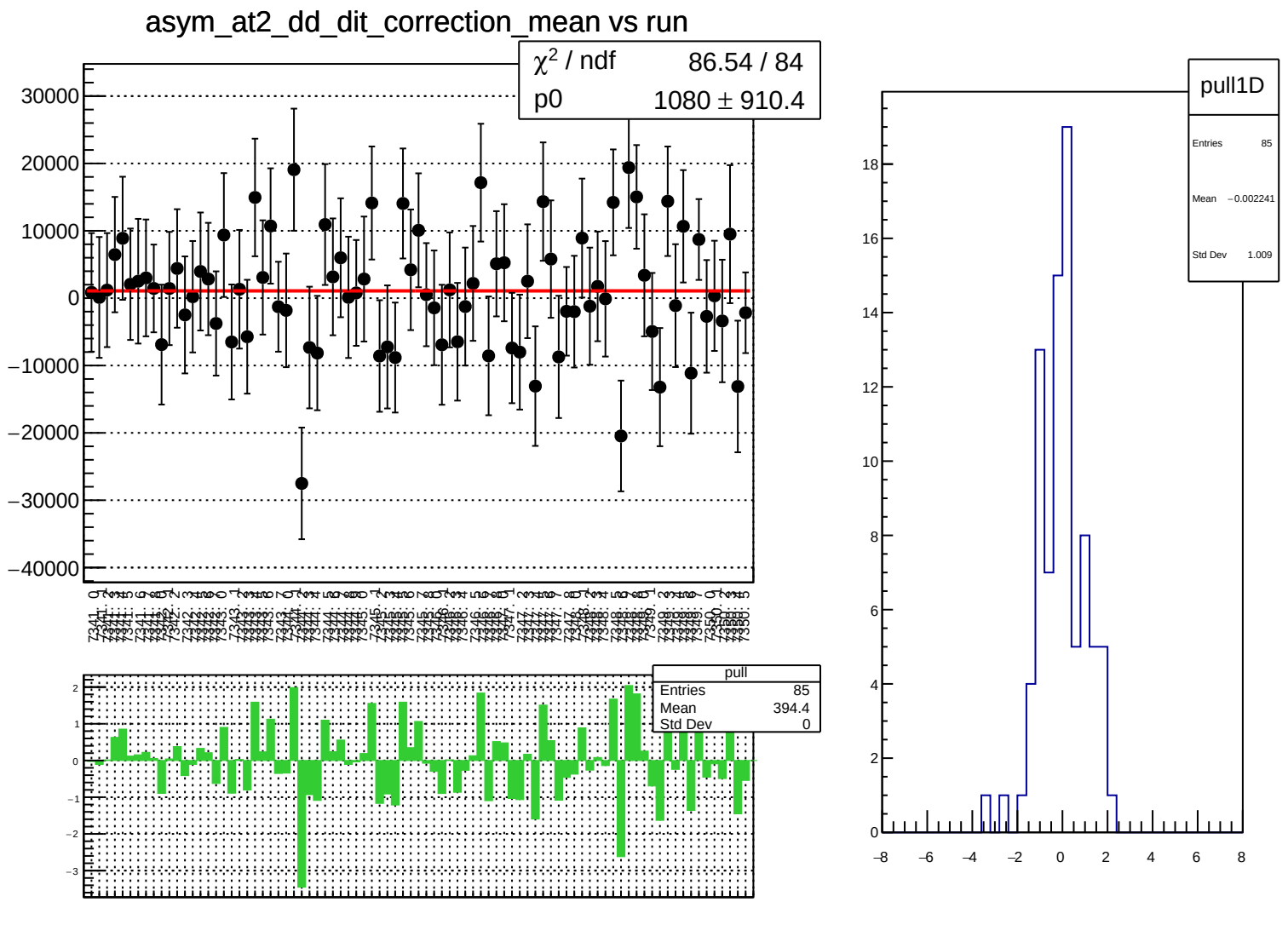

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.52 / 84
p0 507.5 ± 803.3
pull
Entries 85
Mean −333.3
Std Dev 0
pull1D
Entries 85
Mean 0.009944
Std Dev 0.9425

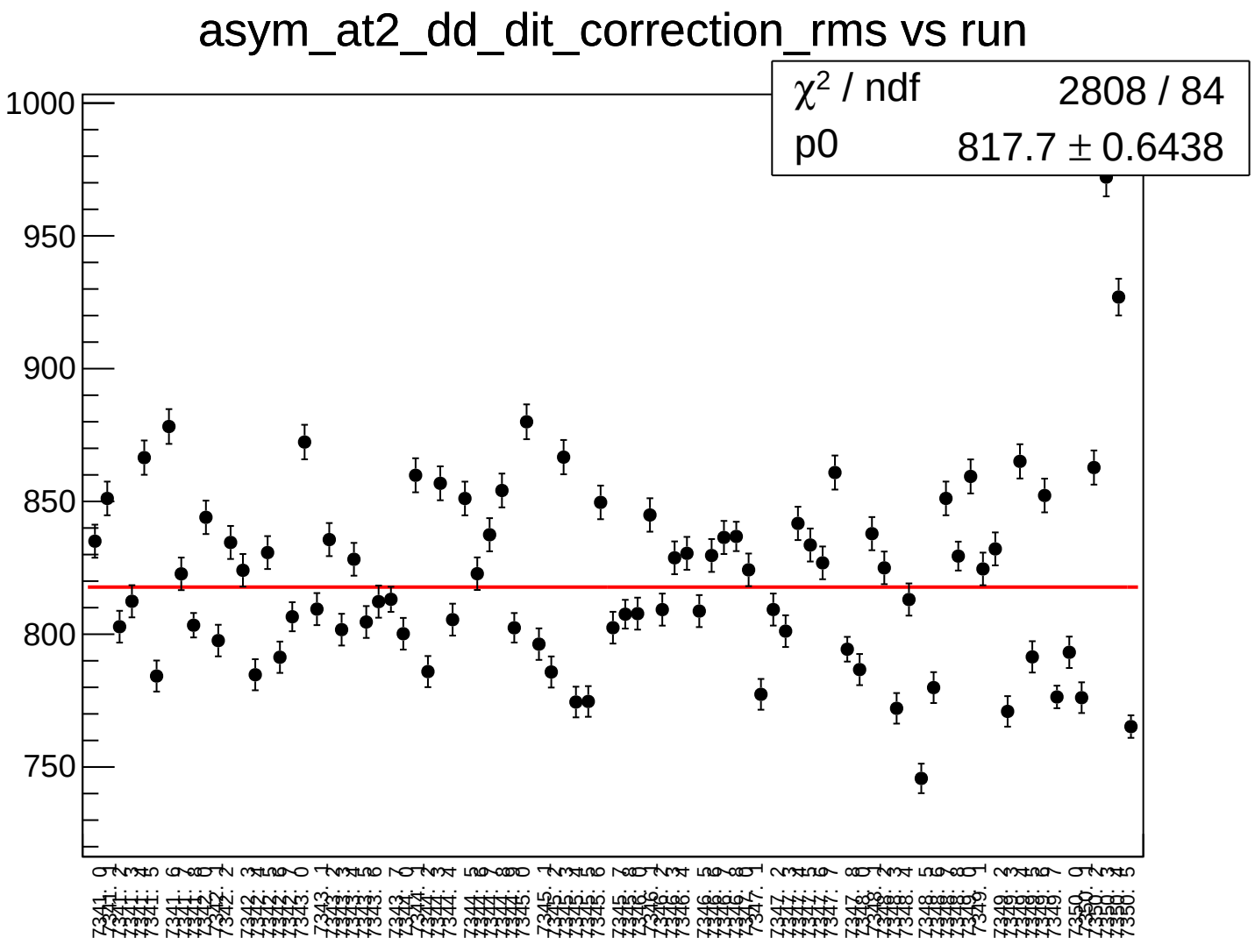

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.763e+04 / 84
p0 715.9 ± 0.568
1100
1000
900
800
700
600

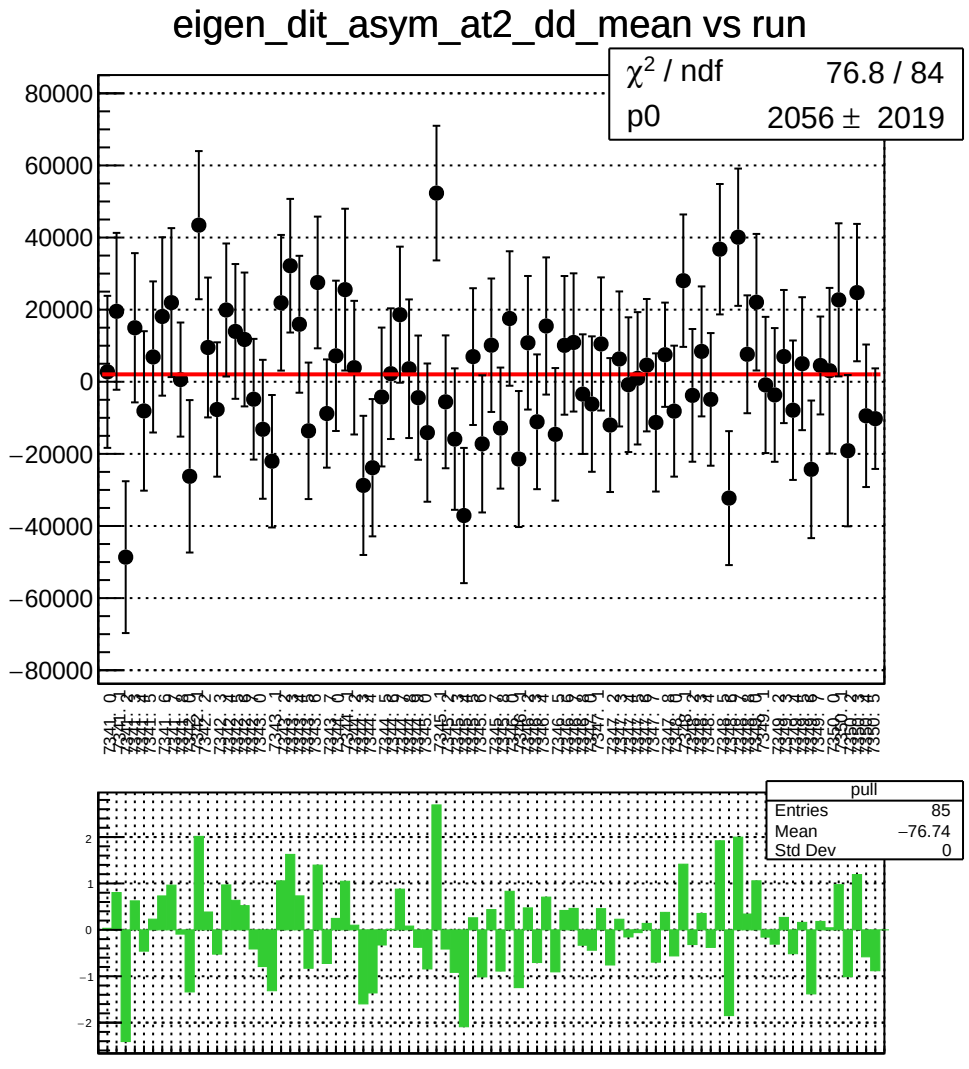

dit_asym_at2_dd_mean vs run
χ² / ndf 76.8 / 84
p0 2056 ± 2019
pull
Entries 85
Mean −76.74
Std Dev 0

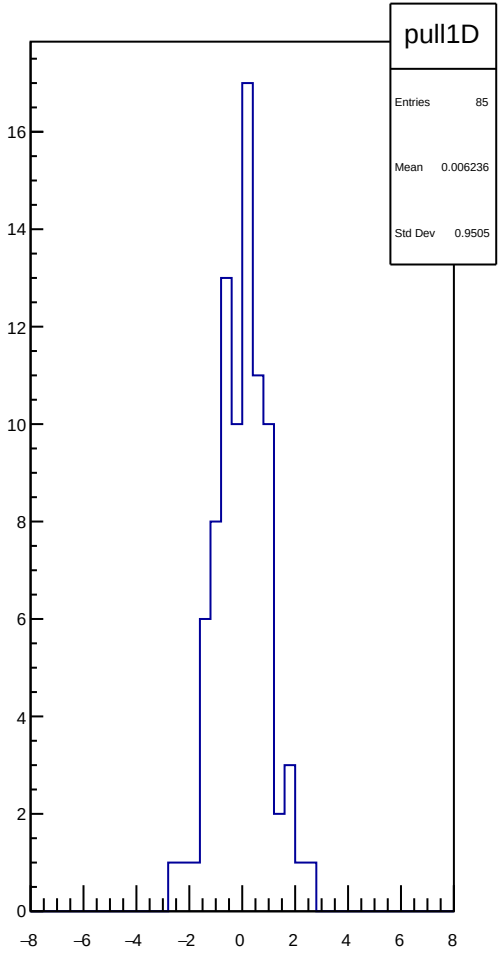

pull1D
Entries 85
Mean 0.006236
Std Dev 0.9505

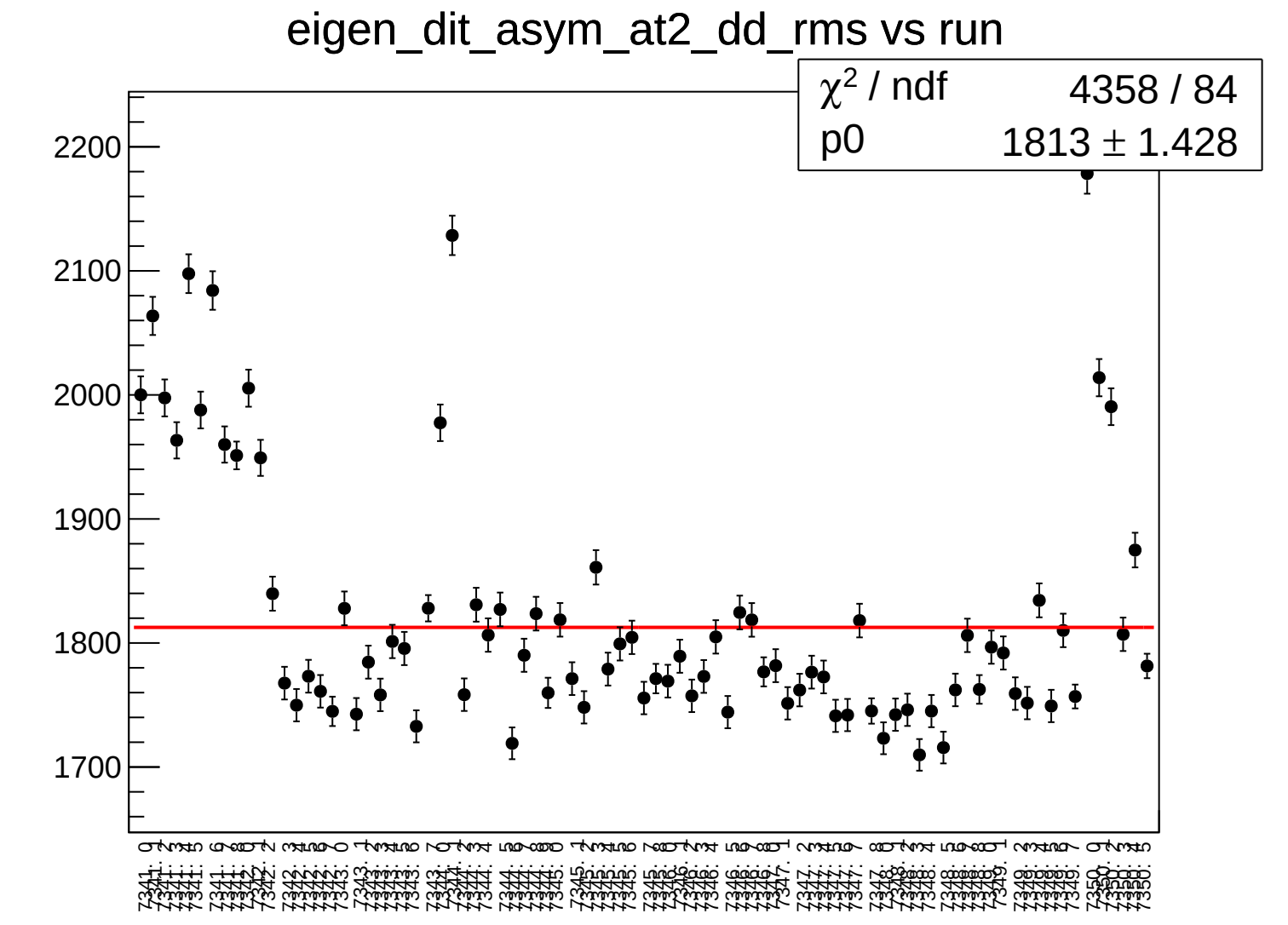

dit_asym_at2_dd_rms vs run
χ² / ndf 4358 / 84
p0 1813 ± 1.428
2200
2100
2000
1900
1800
1700

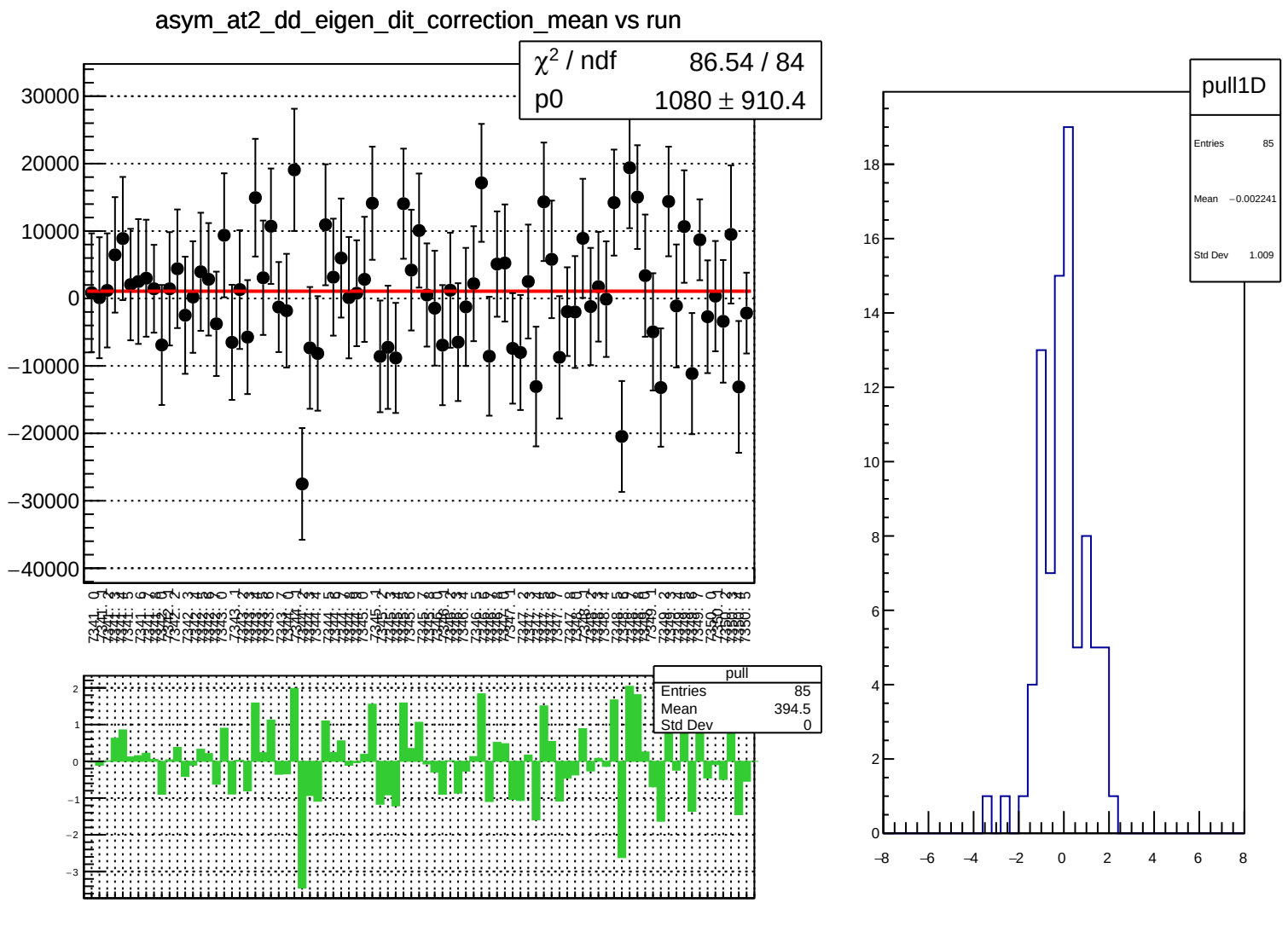

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 86.54 / 84
p0 1080 ± 910.4
pull
Entries 85
Mean 394.4
Std Dev 0
pull1D
Entries 85
Mean −0.002241
Std Dev 1.009

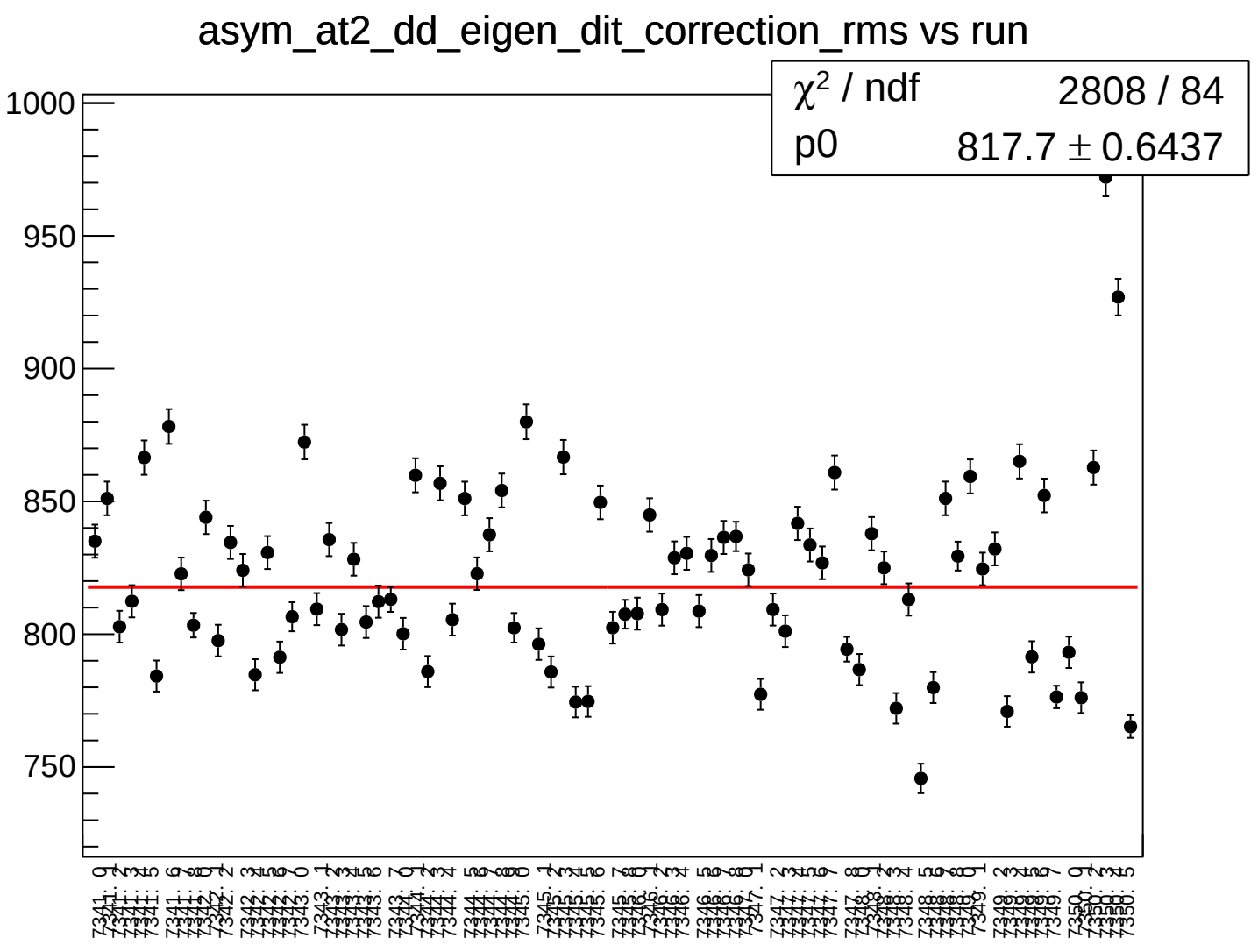

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2808 / 84
p0 817.7 ± 0.6438
1000
950
900
850
800
750

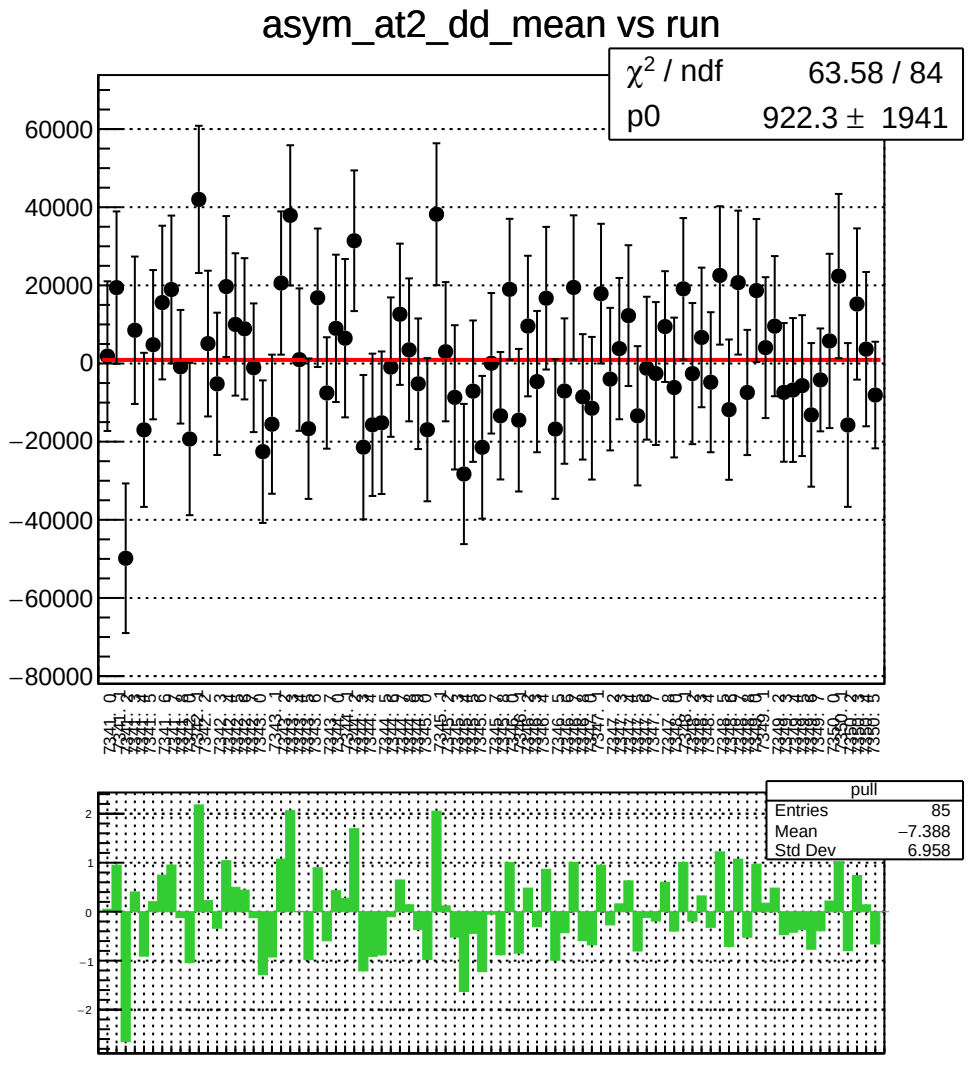

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 76.8 / 84
p0 2056 ± 2019
pull
Entries 85
Mean −76.74
Std Dev 0

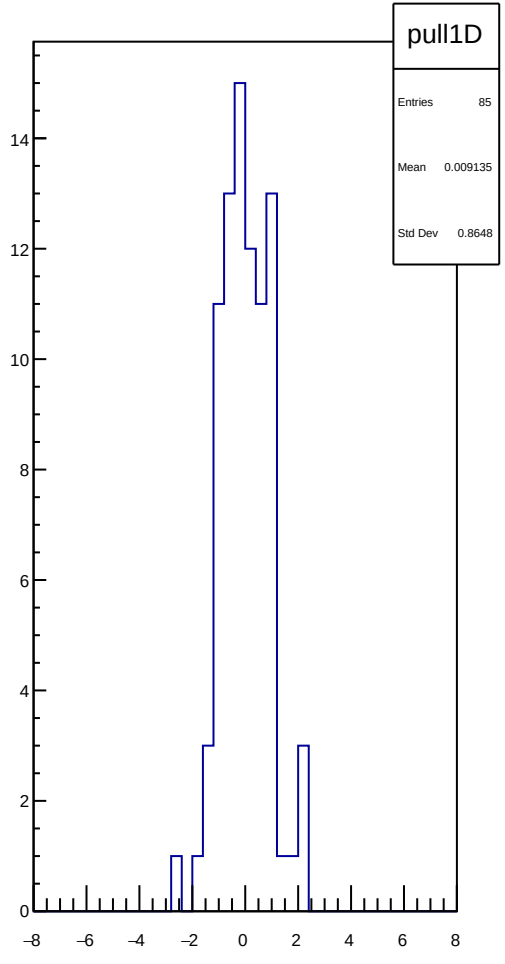

pull1D
Entries 85
Mean 0.006236
Std Dev 0.9505

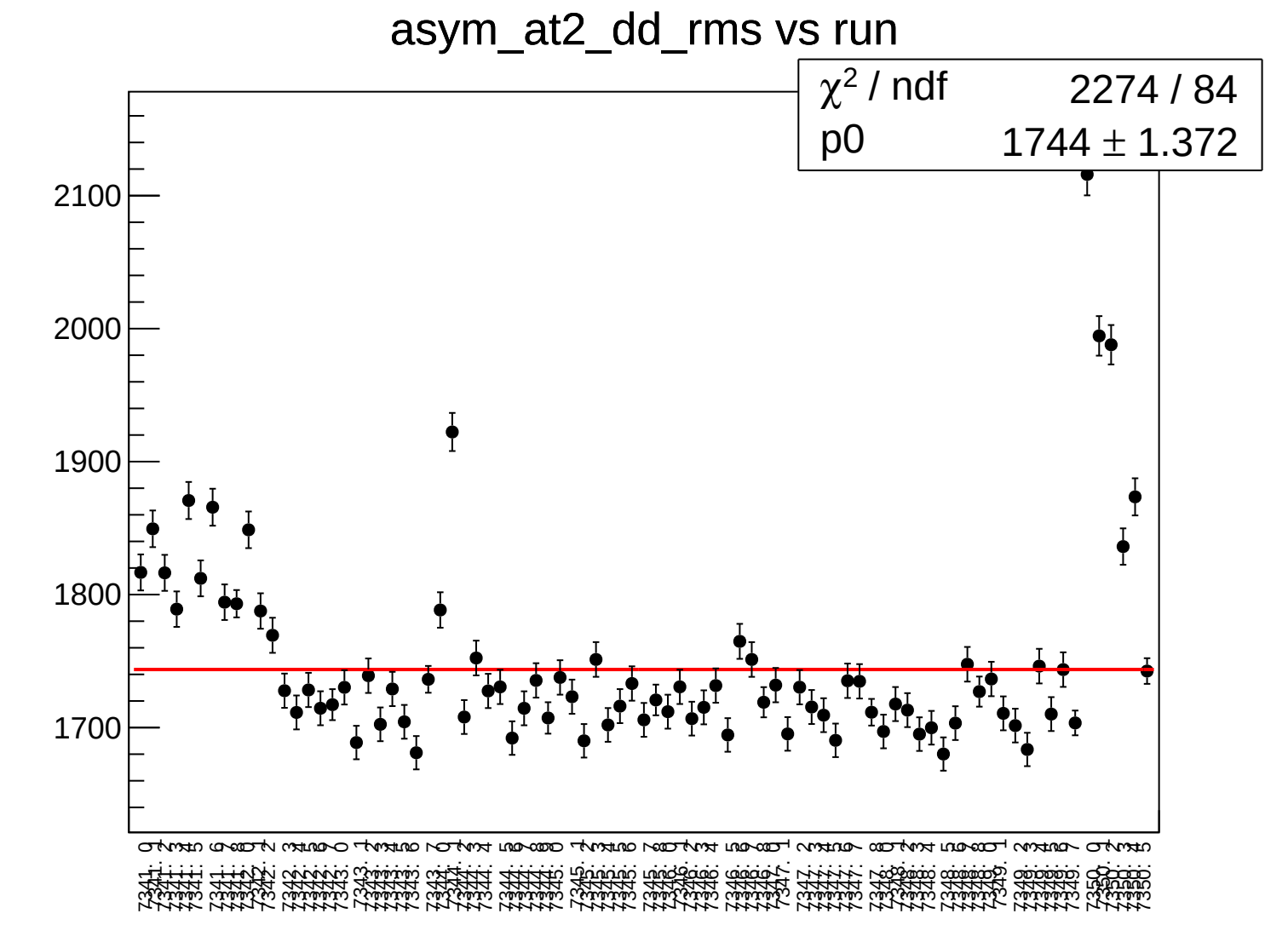

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 4358 / 84
p0 1813 ± 1.428
2200
2100
2000
1900
1800
1700

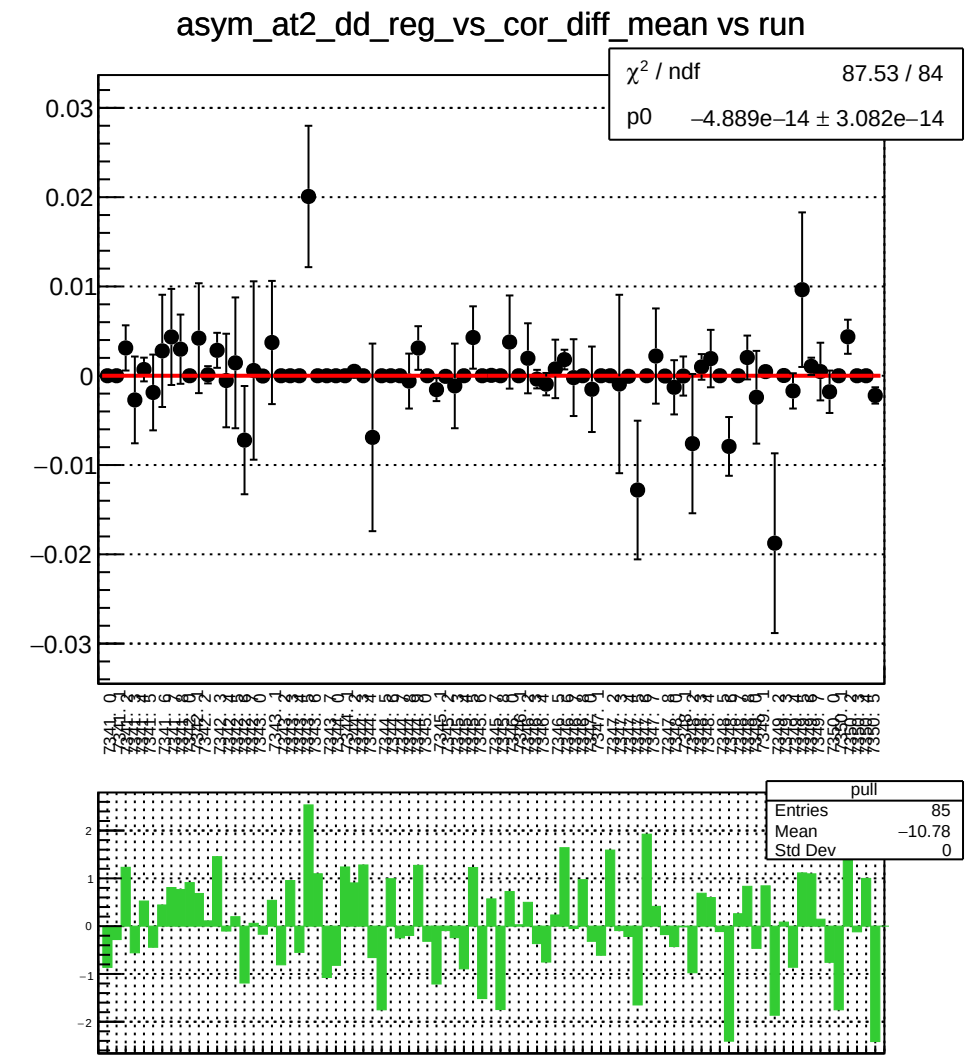

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.54 / 84
p0 1080 ± 910.4
pull
Entries 85
Mean 394.5
Std Dev 0
pull1D
Entries 85
Mean −0.002241
Std Dev 1.009

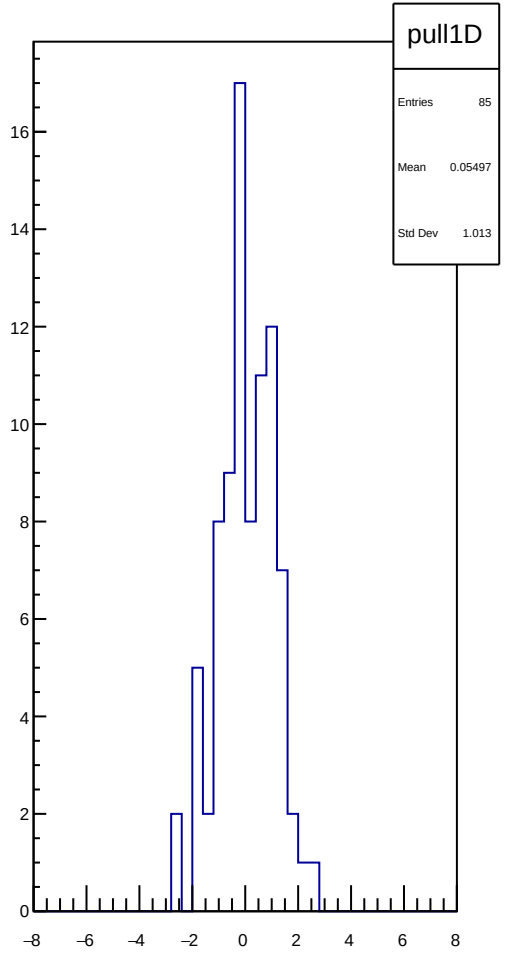

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2808 / 84
p0 817.7 ± 0.6437
1000
950
900
850
800
750

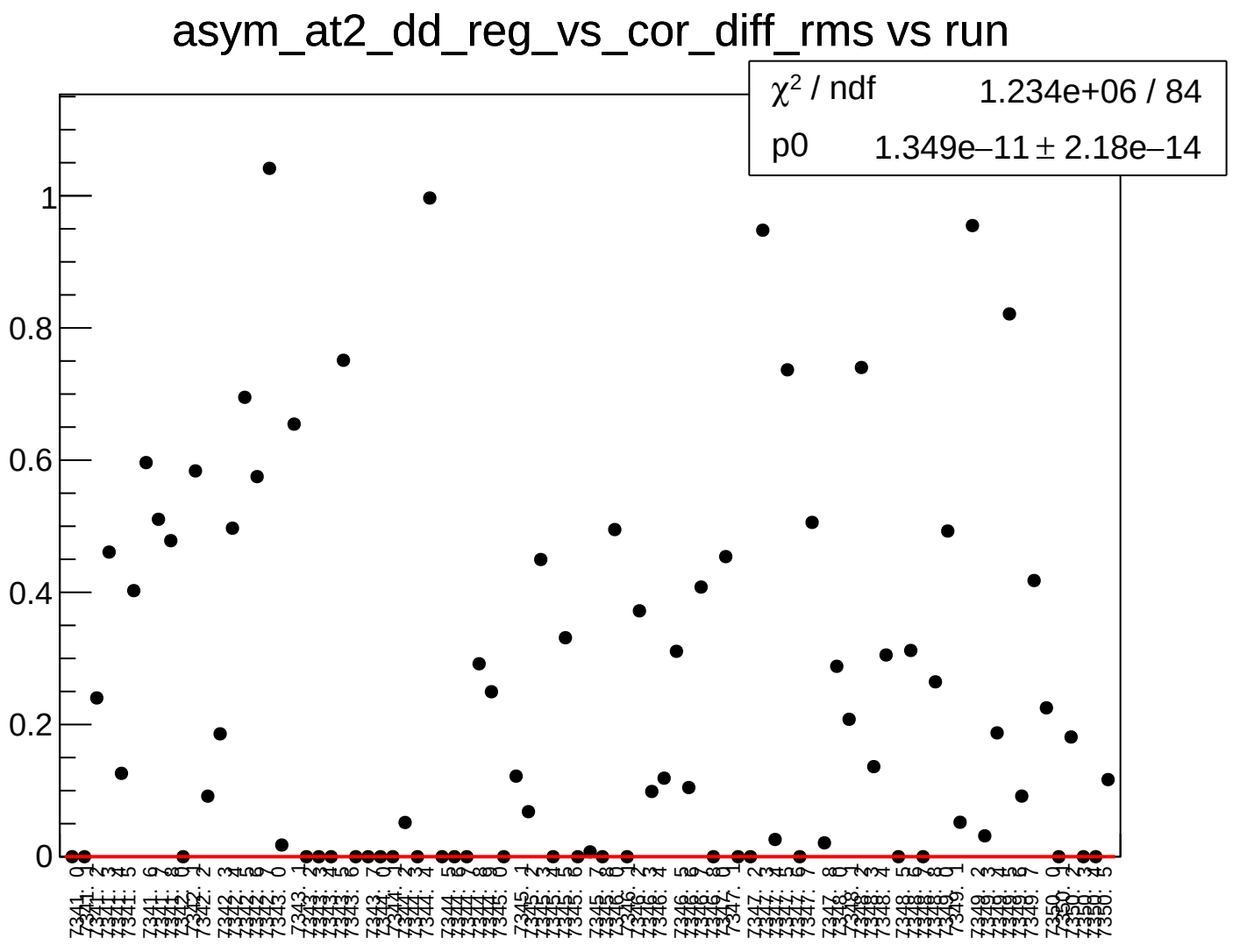

asym_at2_dd_mean vs run
χ² / ndf 63.58 / 84
p0 922.3 ± 1941
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −7.388
Std Dev 6.958
2
1
0
−1
−2

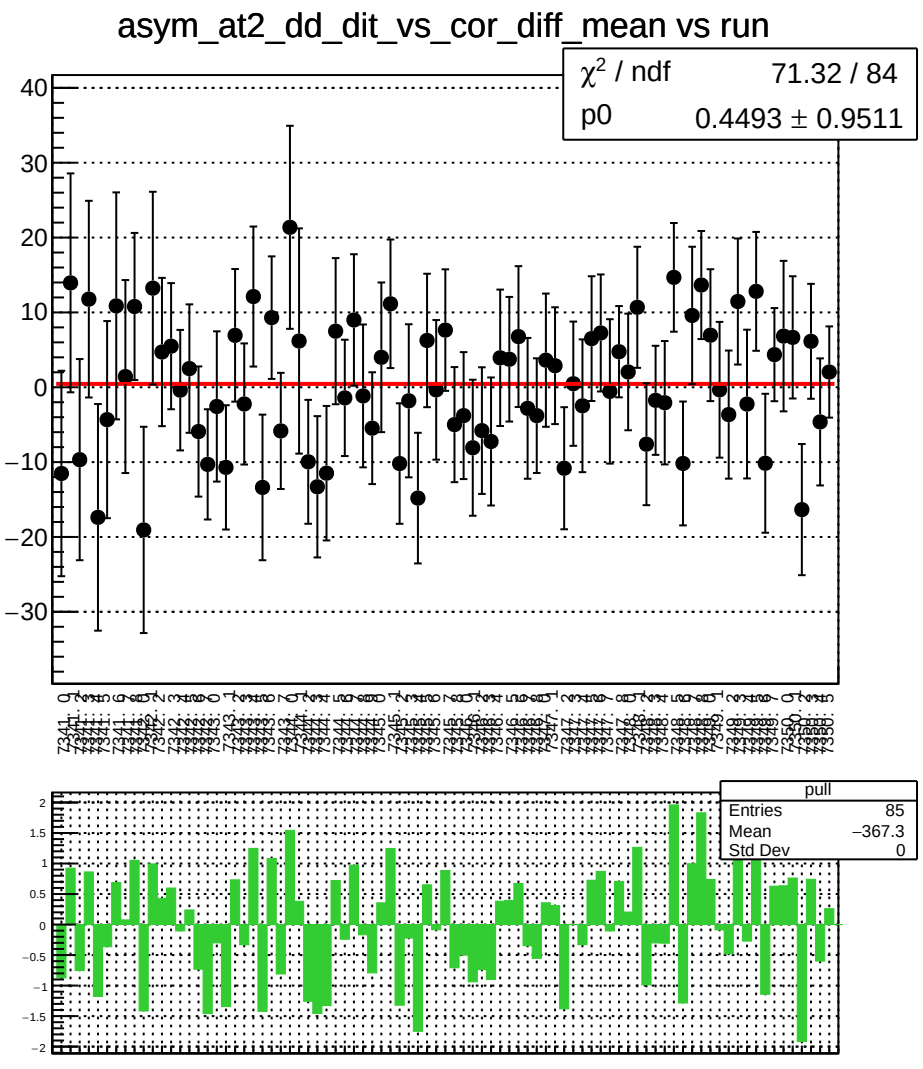

pull1D
Entries 85
Mean 0.009135
Std Dev 0.8648
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

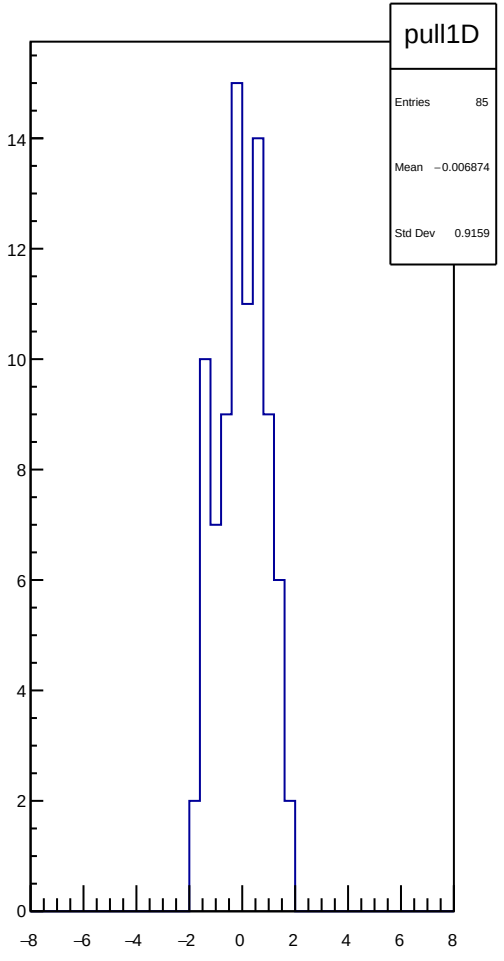

asym_at2_dd_rms vs run
χ^2 / ndf 2274 / 84
p0 1744 ± 1.372
2100
2000
1900
1800
1700

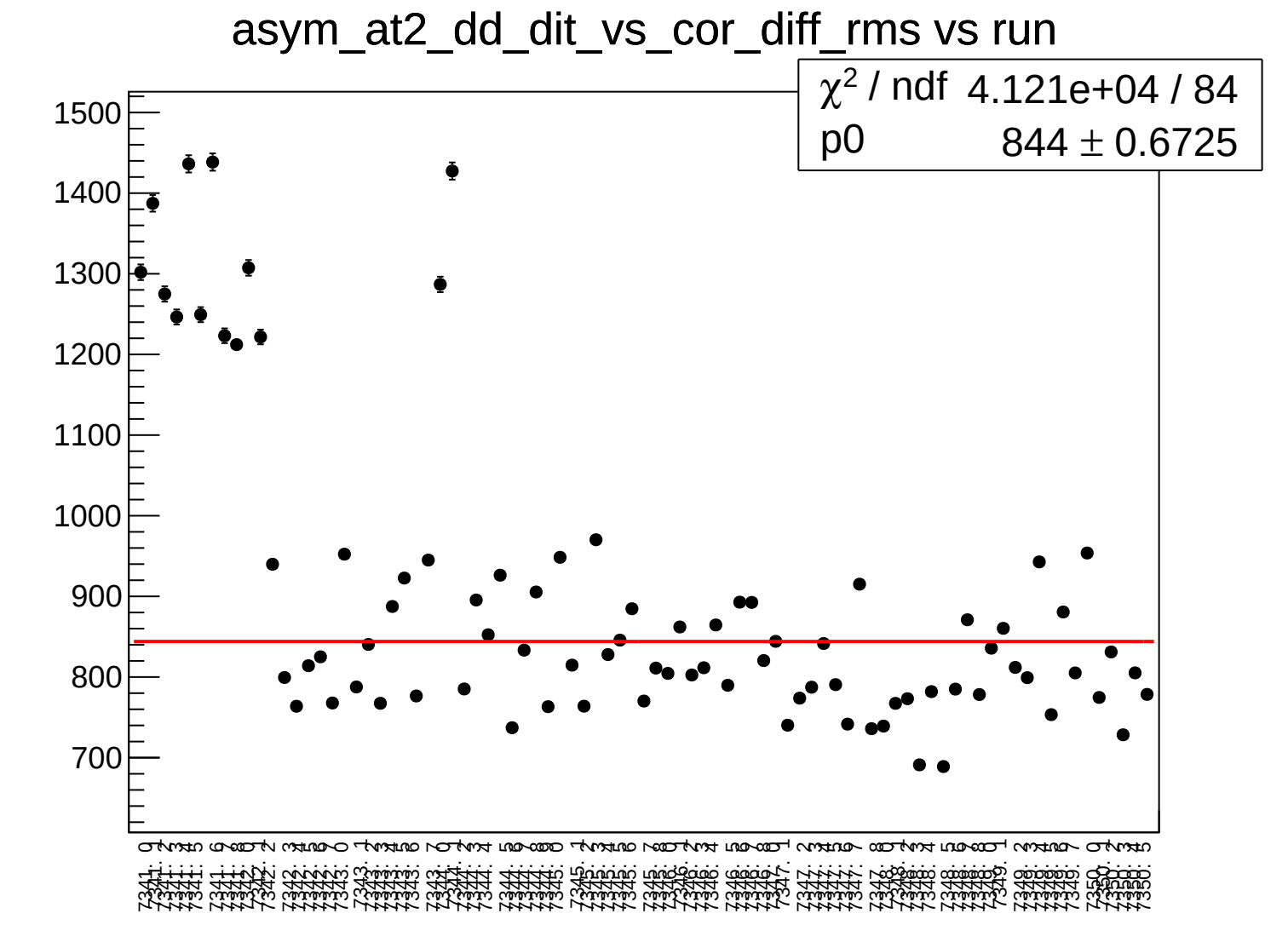

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.53 / 84
p0 −4.889e−14 ± 3.082e−14
pull
Entries 85
Mean −10.78
Std Dev 0

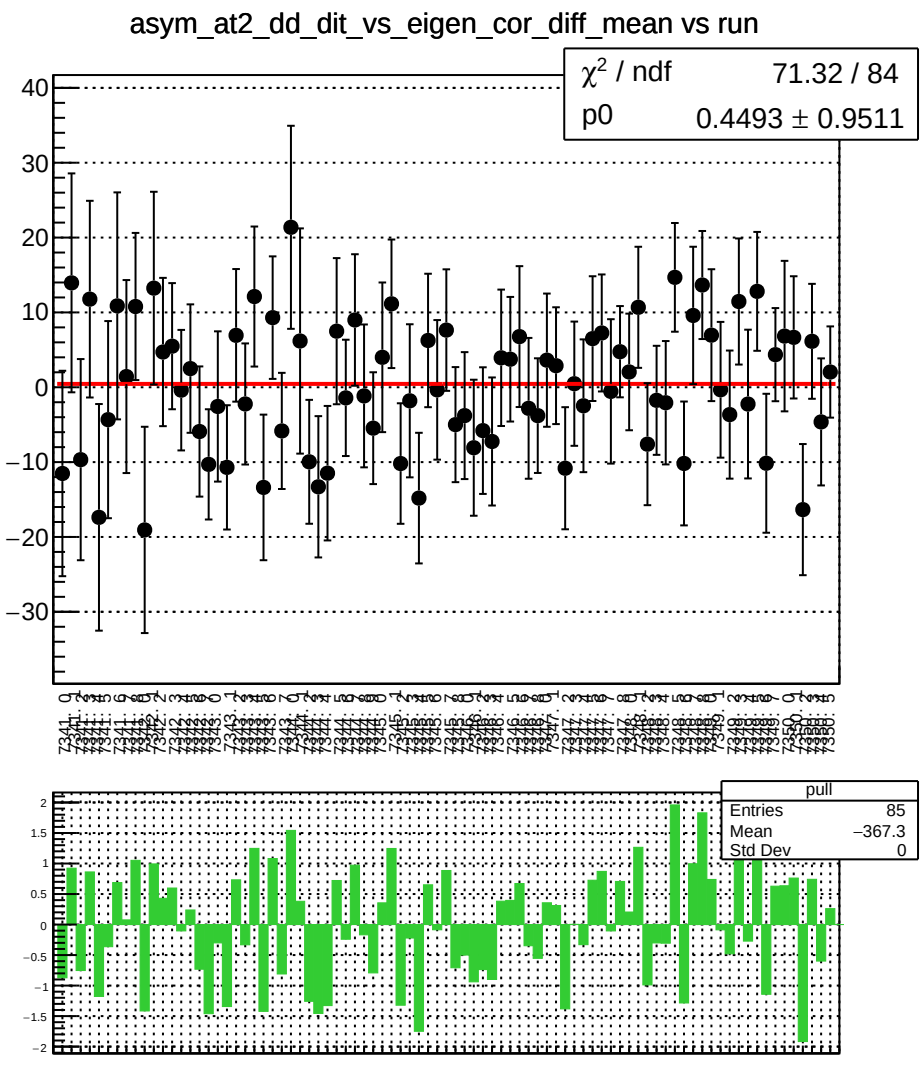

pull1D
Entries 85
Mean 0.05497
Std Dev 1.013

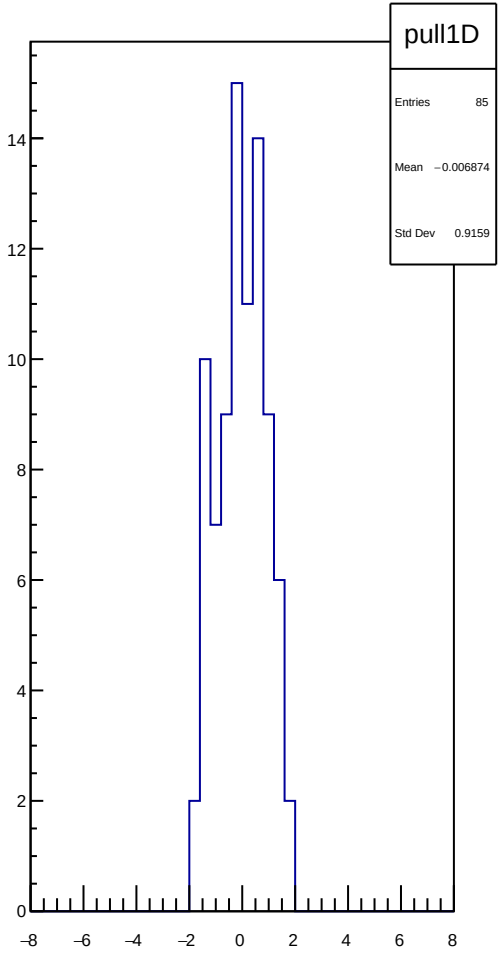

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.234e+06 / 84
p0 1.349e−11 ± 2.18e−14
1
0.8
0.6
0.4
0.2
0

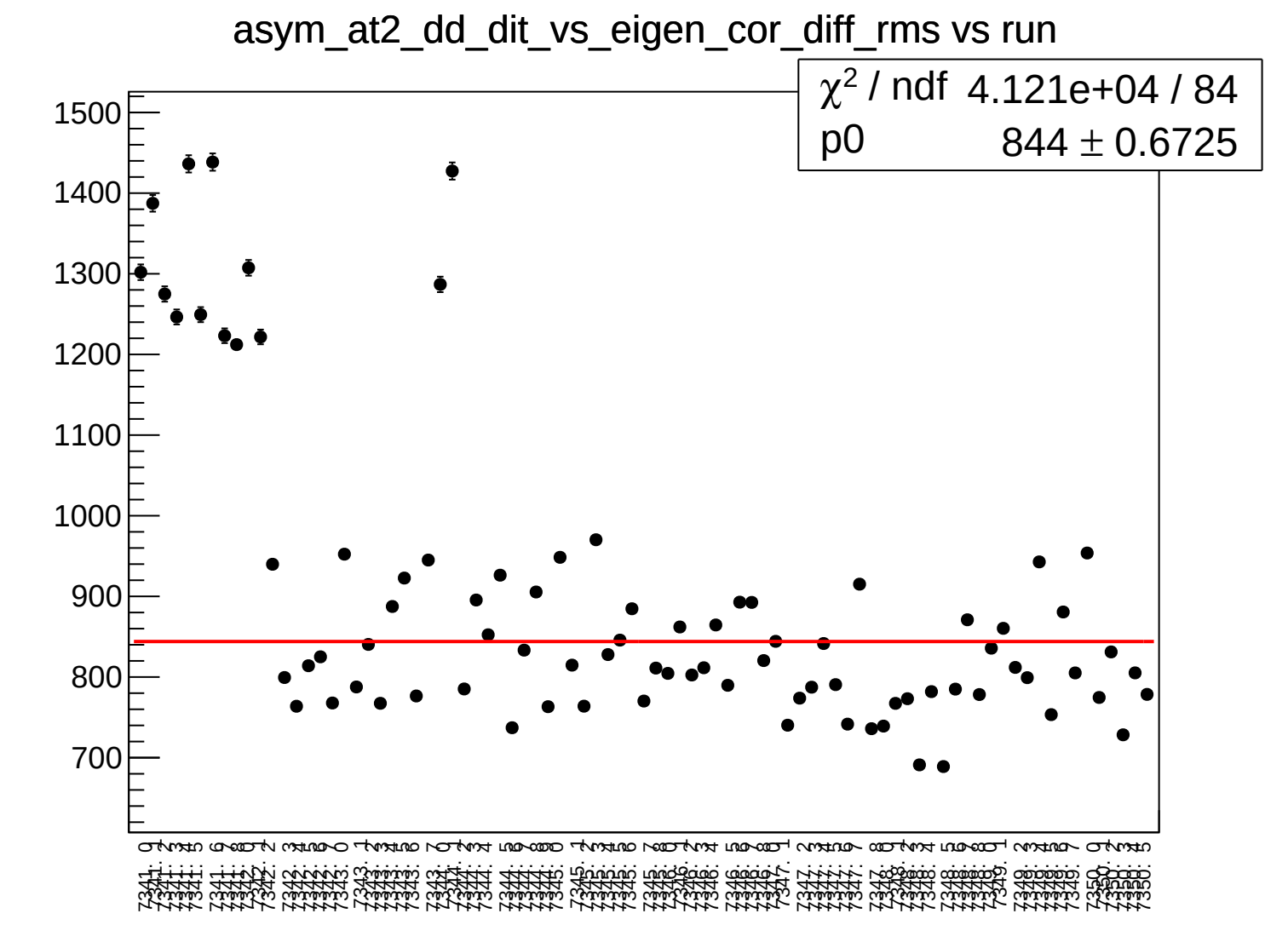

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ^2 / ndf 71.32 / 84
p0 0.4493 ± 0.9511
pull
Entries 85
Mean −367.3
Std Dev 0

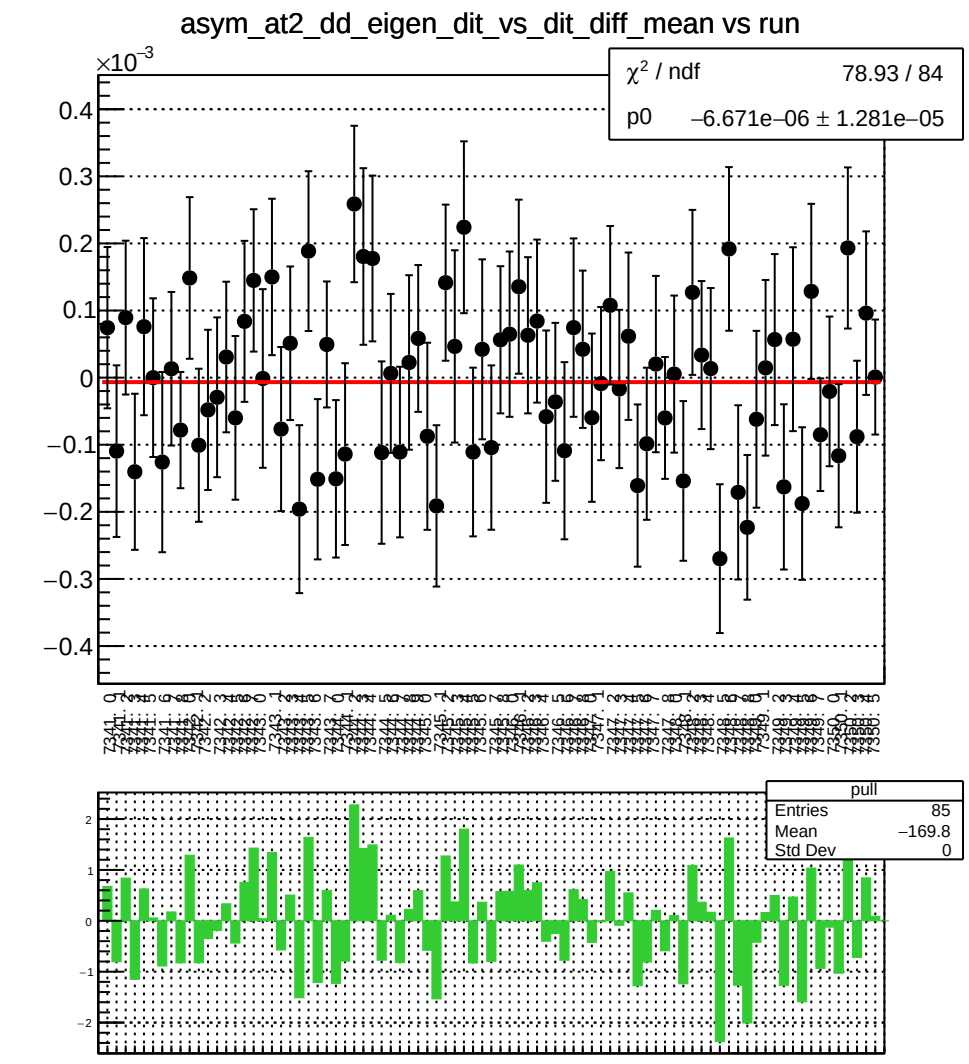

pull1D
Entries 85
Mean −0.006874
Std Dev 0.9159

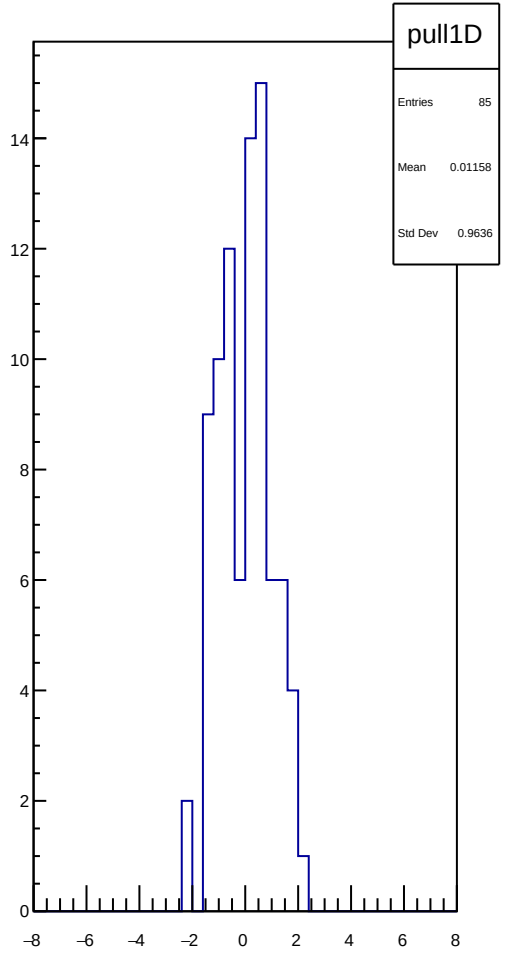

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.121e+04 / 84
p0 844 ± 0.6725
1500
1400
1300
1200
1100
1000
900
800
700

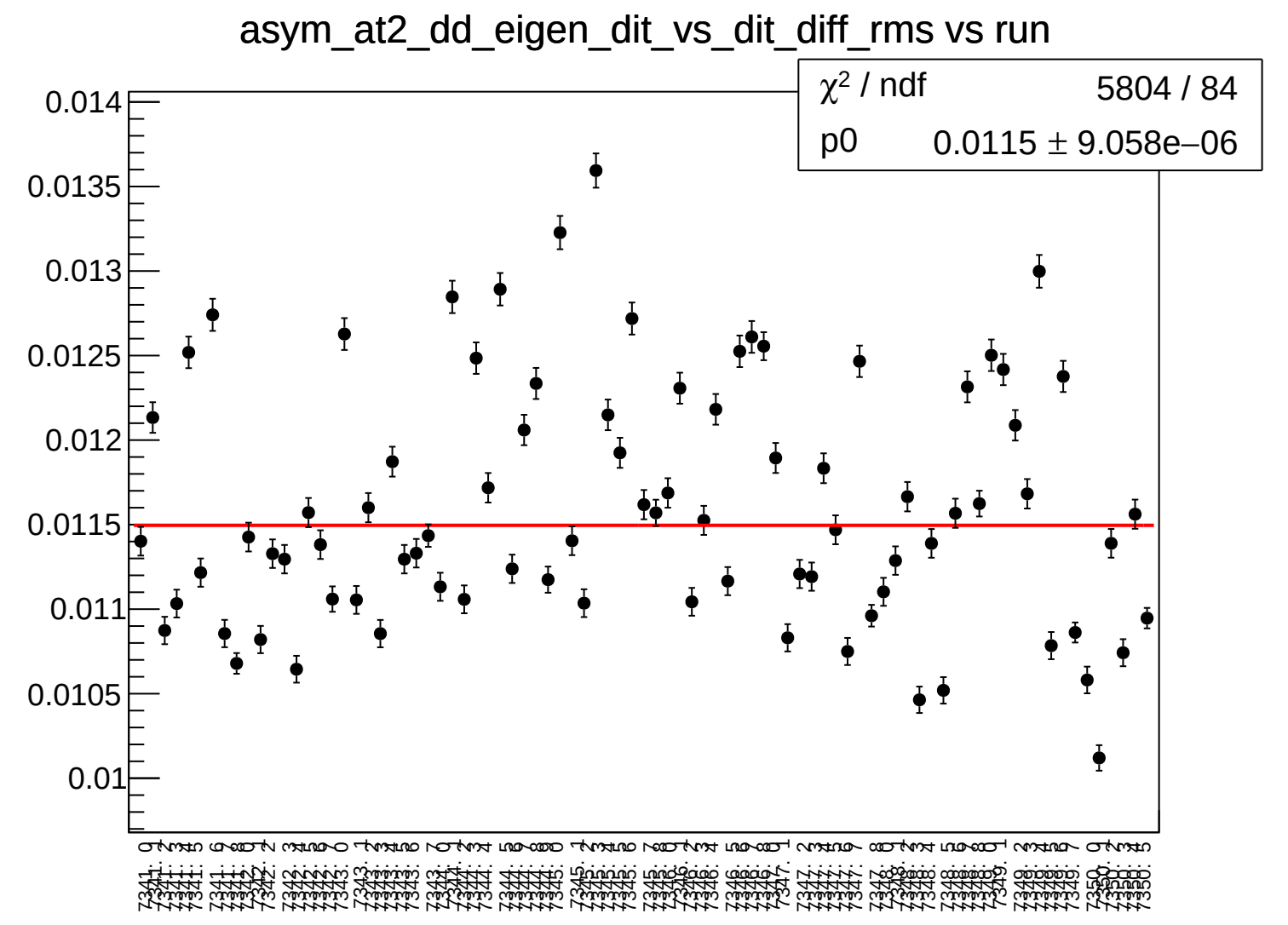

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.32 / 84
p0 0.4493 ± 0.9511
pull
Entries 85
Mean −367.3
Std Dev 0

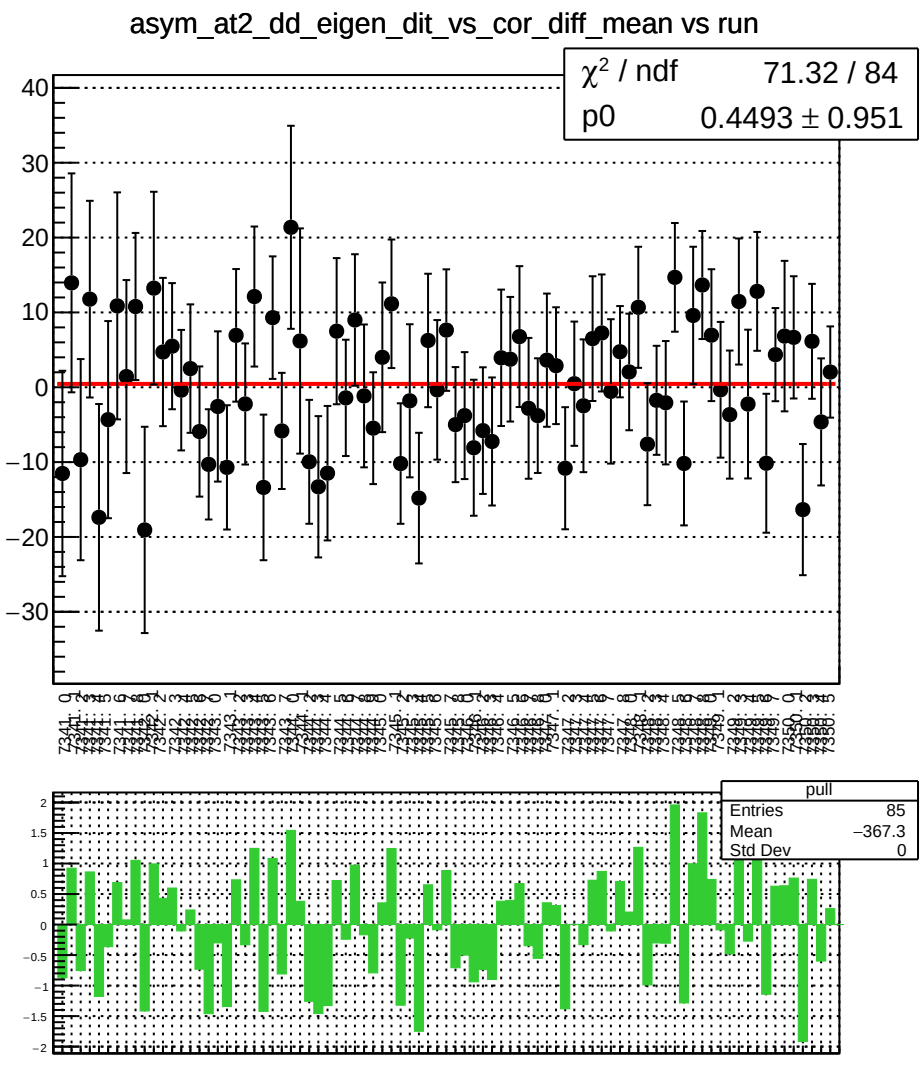

pull1D
Entries 85
Mean −0.006874
Std Dev 0.9159

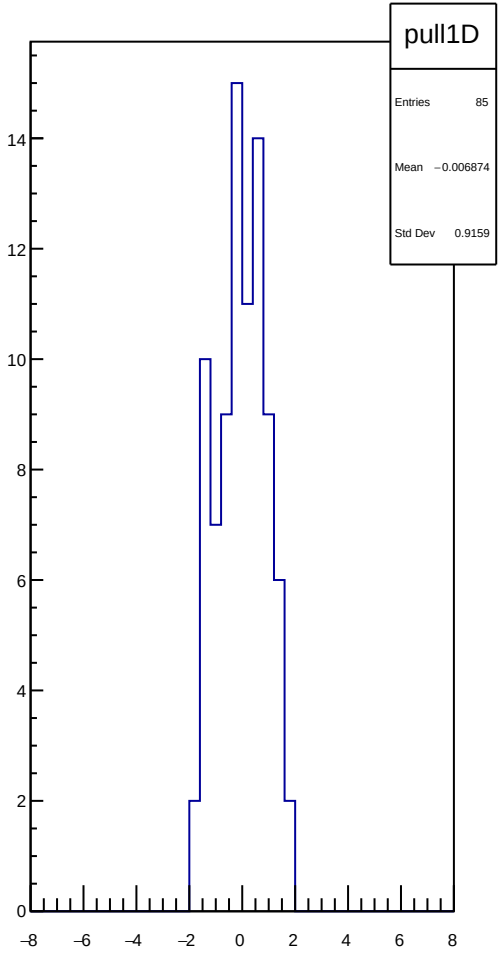

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.121e+04 / 84
p0 844 ± 0.6725
1500
1400
1300
1200
1100
1000
900
800
700

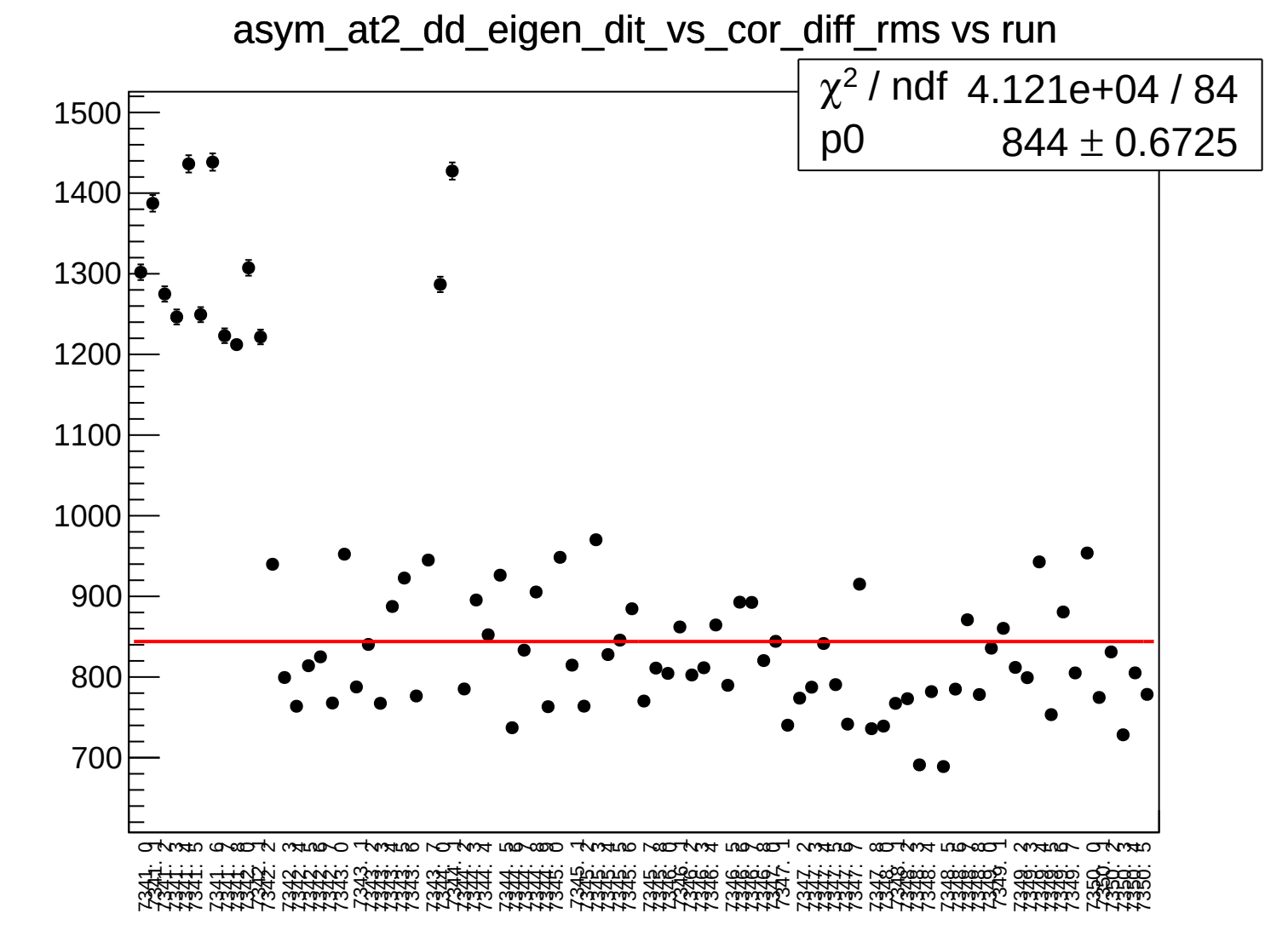

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.93 / 84
p0 −6.671e−06 ± 1.281e−05
pull
Entries 85
Mean −169.8
Std Dev 0

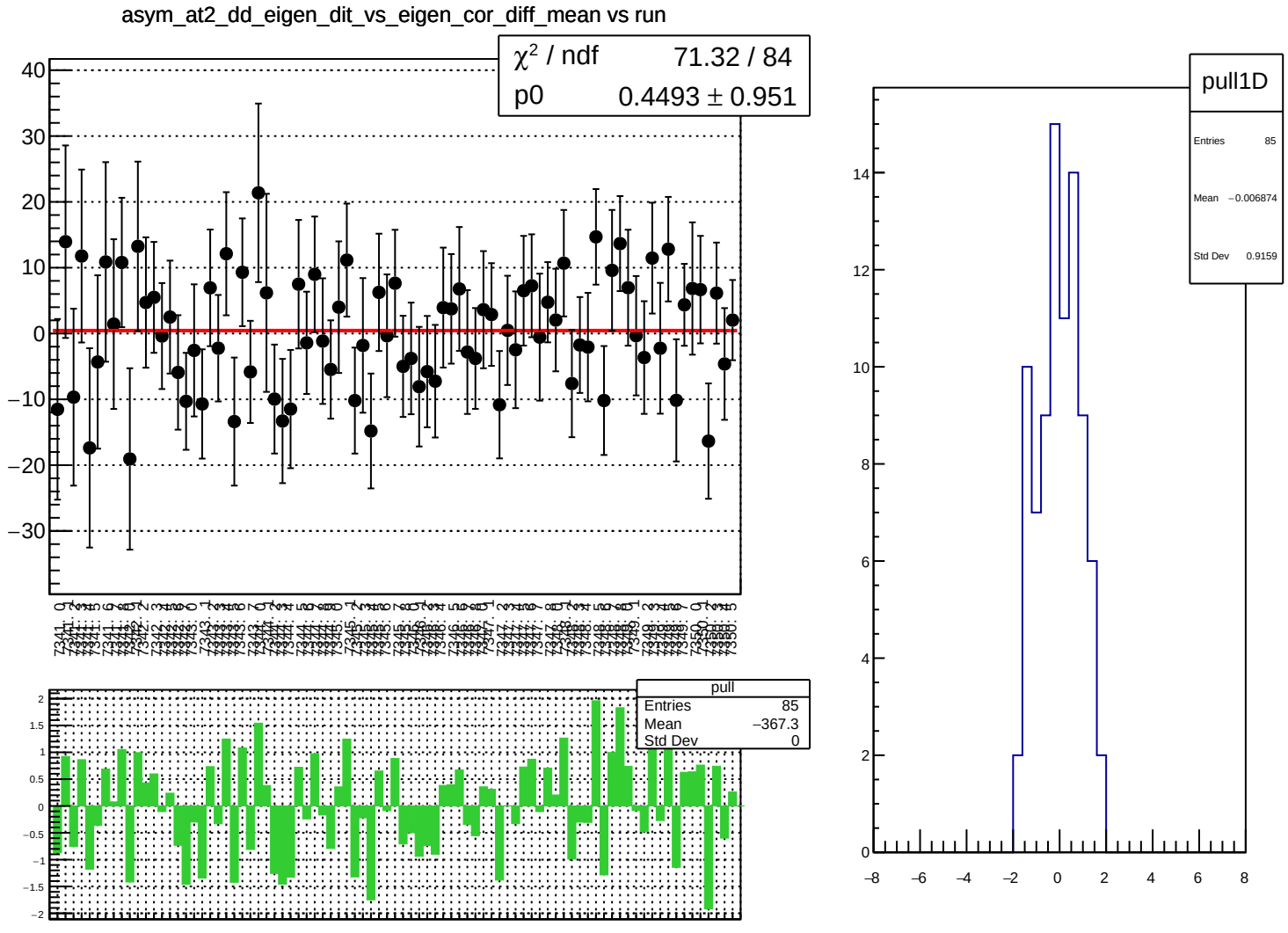

pull1D
Entries 85
Mean 0.01158
Std Dev 0.9636

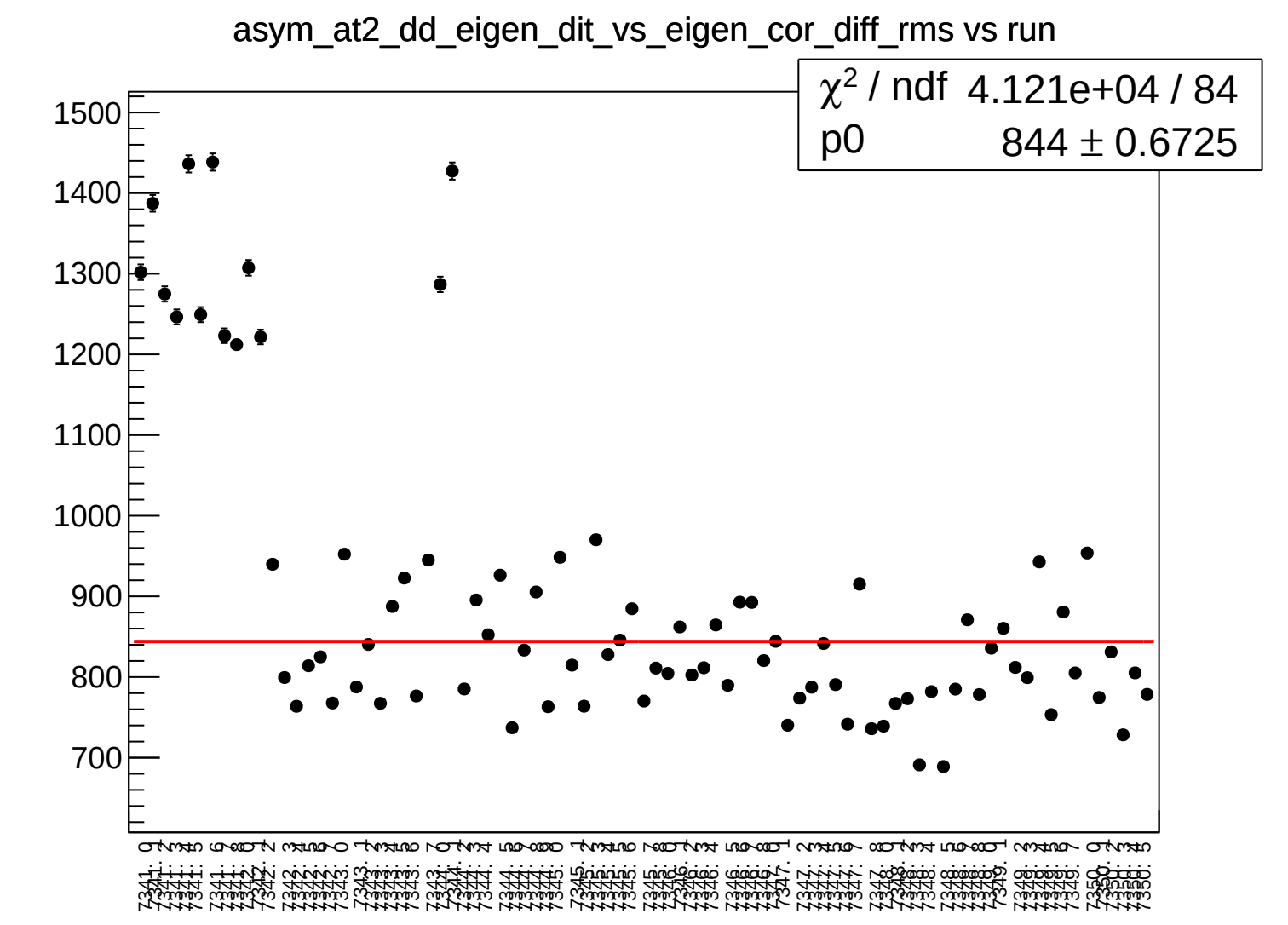

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5804 / 84
p0 0.0115 ± 9.058e−06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

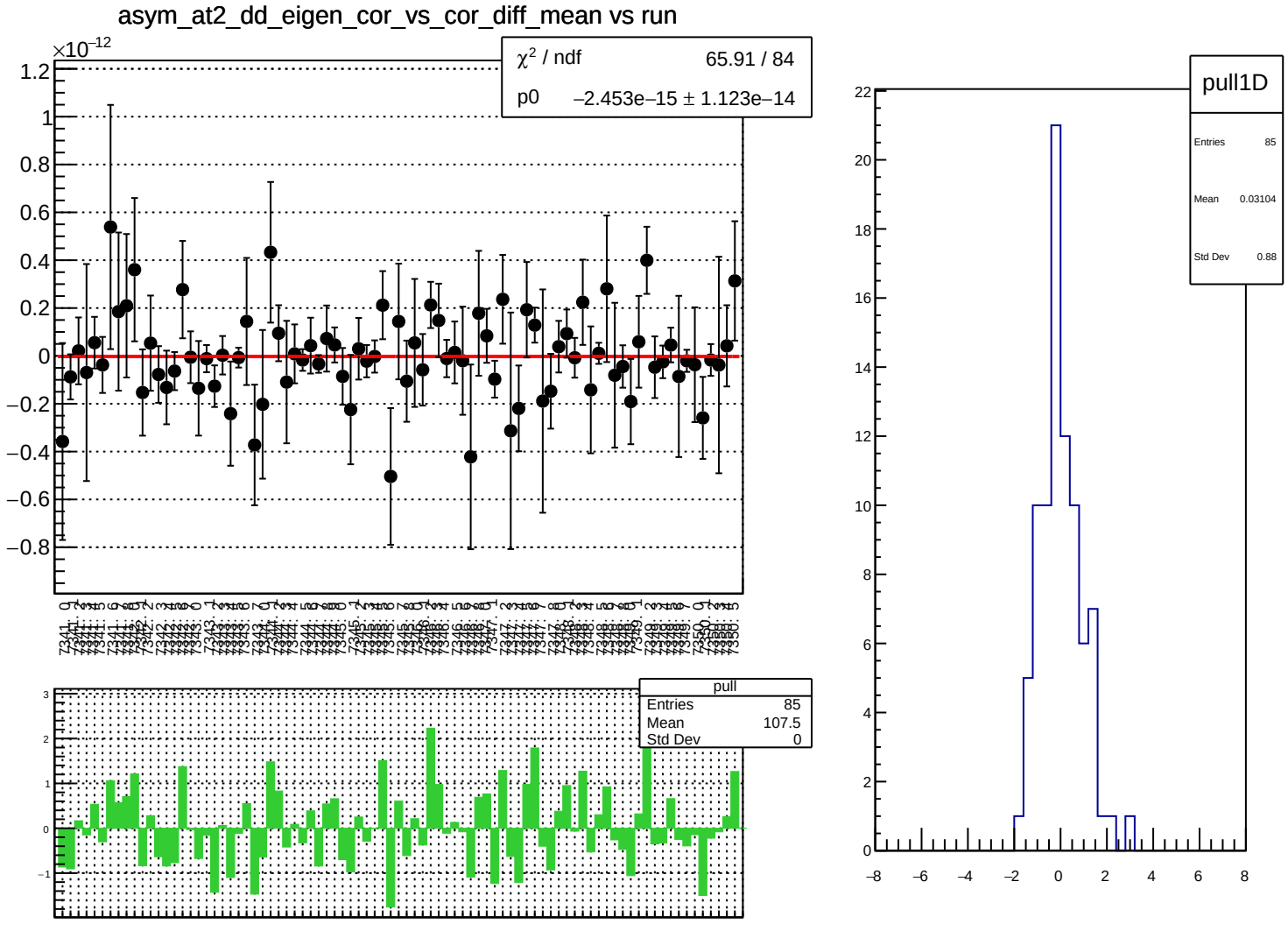

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.32 / 84
p0 0.4493 ± 0.951
pull
Entries 85
Mean −367.3
Std Dev 0

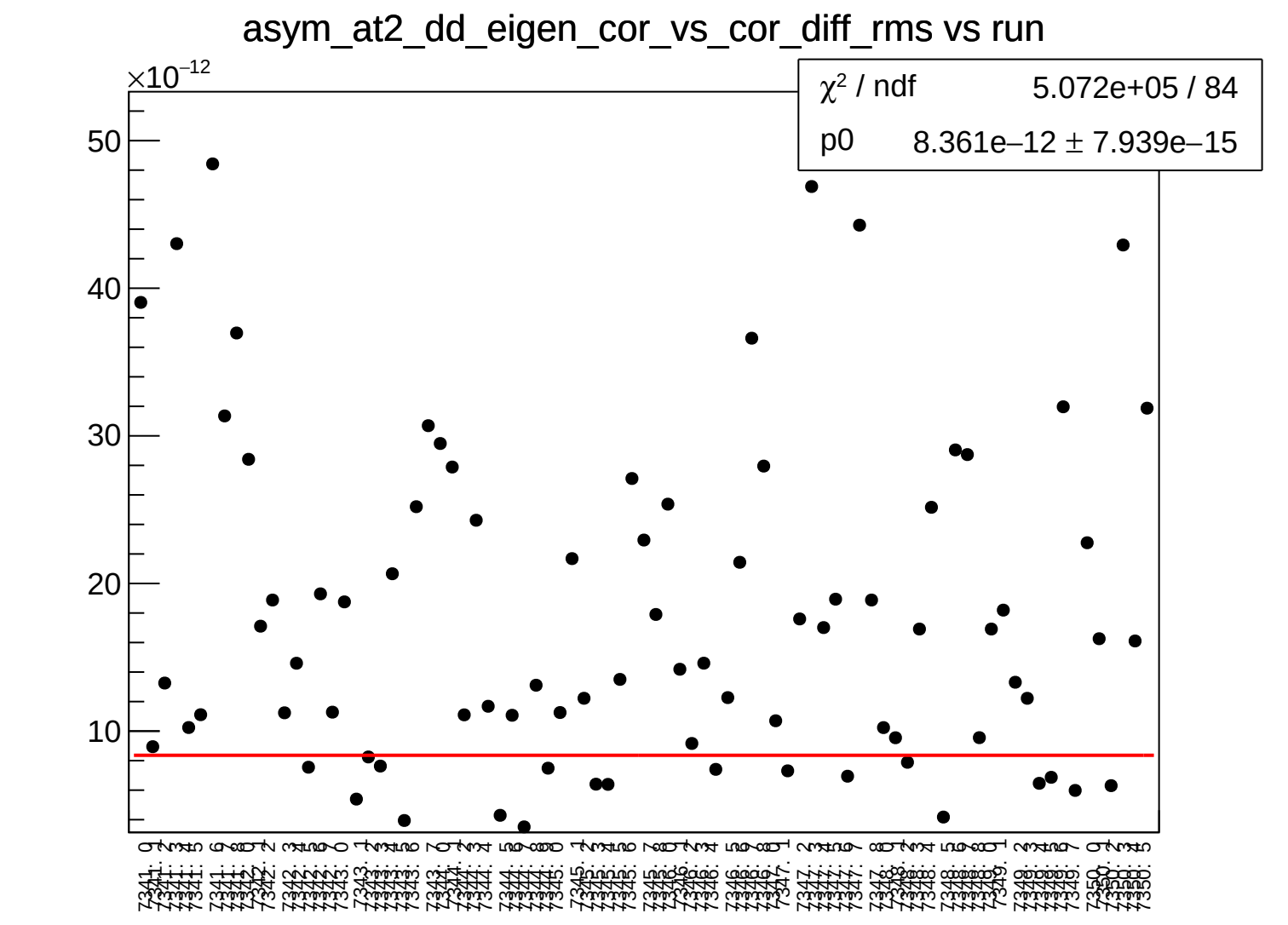

pull1D
Entries 85
Mean −0.006874
Std Dev 0.9159

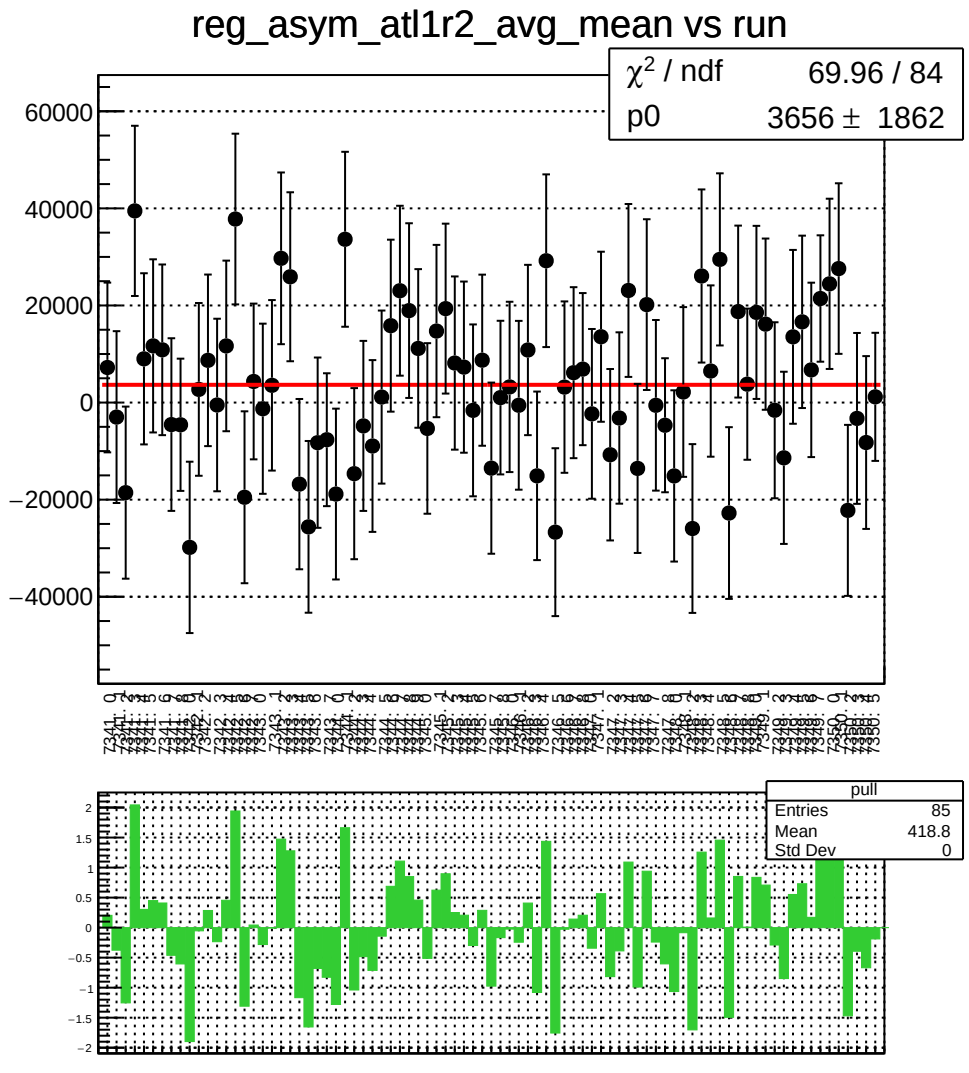

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.121e+04 / 84
p0 844 ± 0.6725
1500
1400
1300
1200
1100
1000
900
800
700

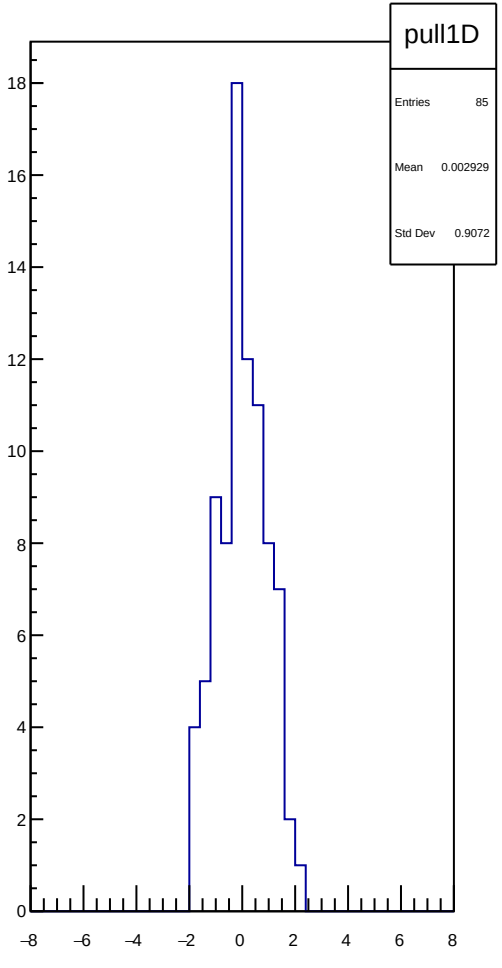

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.32 / 84
p0 0.4493 ± 0.951
pull
Entries 85
Mean −367.3
Std Dev 0
pull1D
Entries 85
Mean −0.006874
Std Dev 0.9159

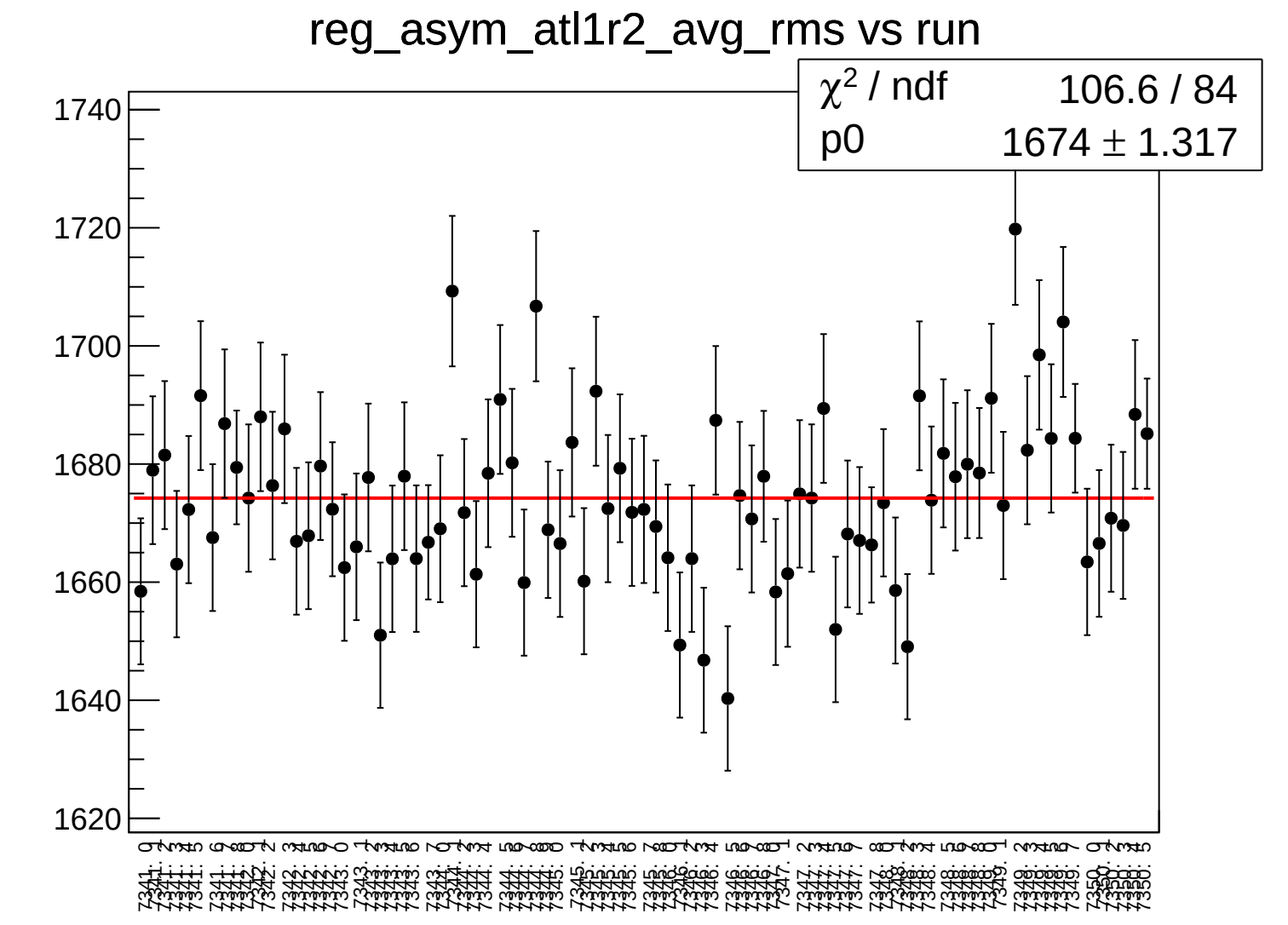

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.121e+04 / 84
p0 844 ± 0.6725
1500
1400
1300
1200
1100
1000
900
800
700

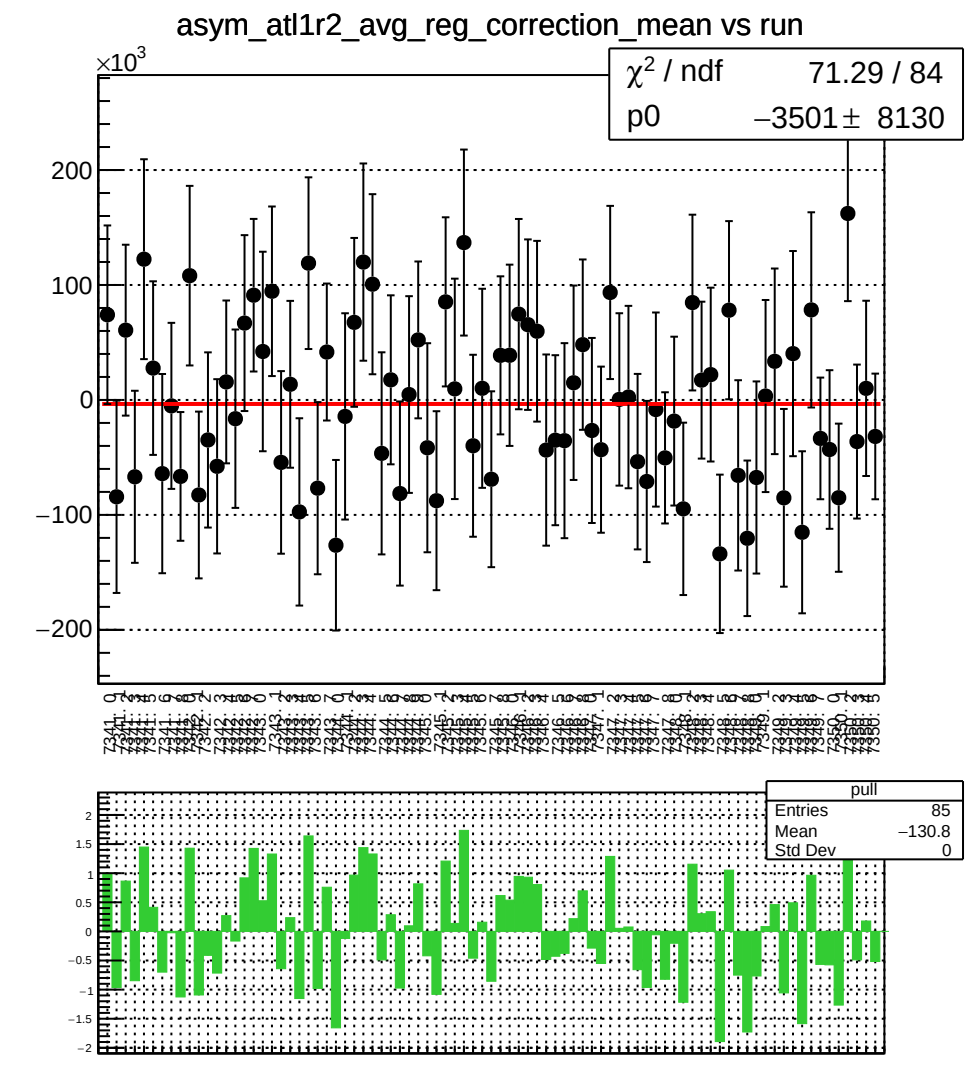

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.91 / 84
p0 −2.453e−15 ± 1.123e−14
pull
Entries 85
Mean 107.5
Std Dev 0
pull1D
Entries 85
Mean 0.03104
Std Dev 0.88

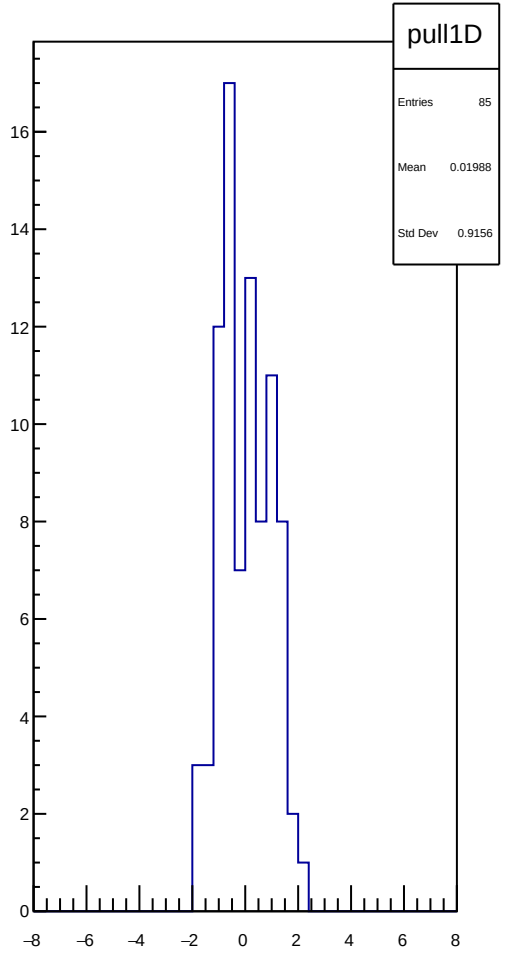

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.072e+05 / 84
p0 8.361e−12 ± 7.939e−15
50
40
30
20
10

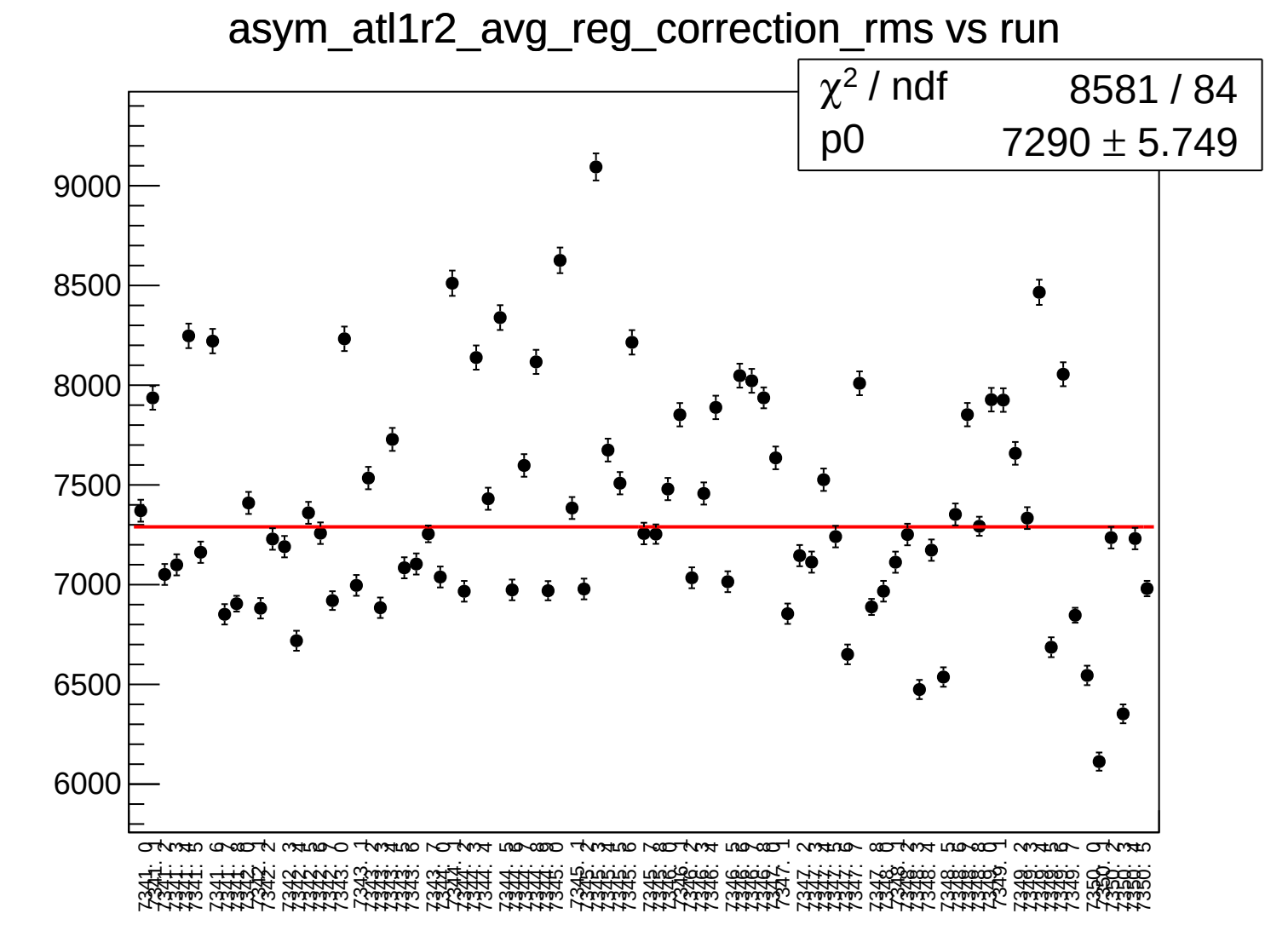

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 69.96 / 84
p0 3656 ± 1862
pull
Entries 85
Mean 418.8
Std Dev 0

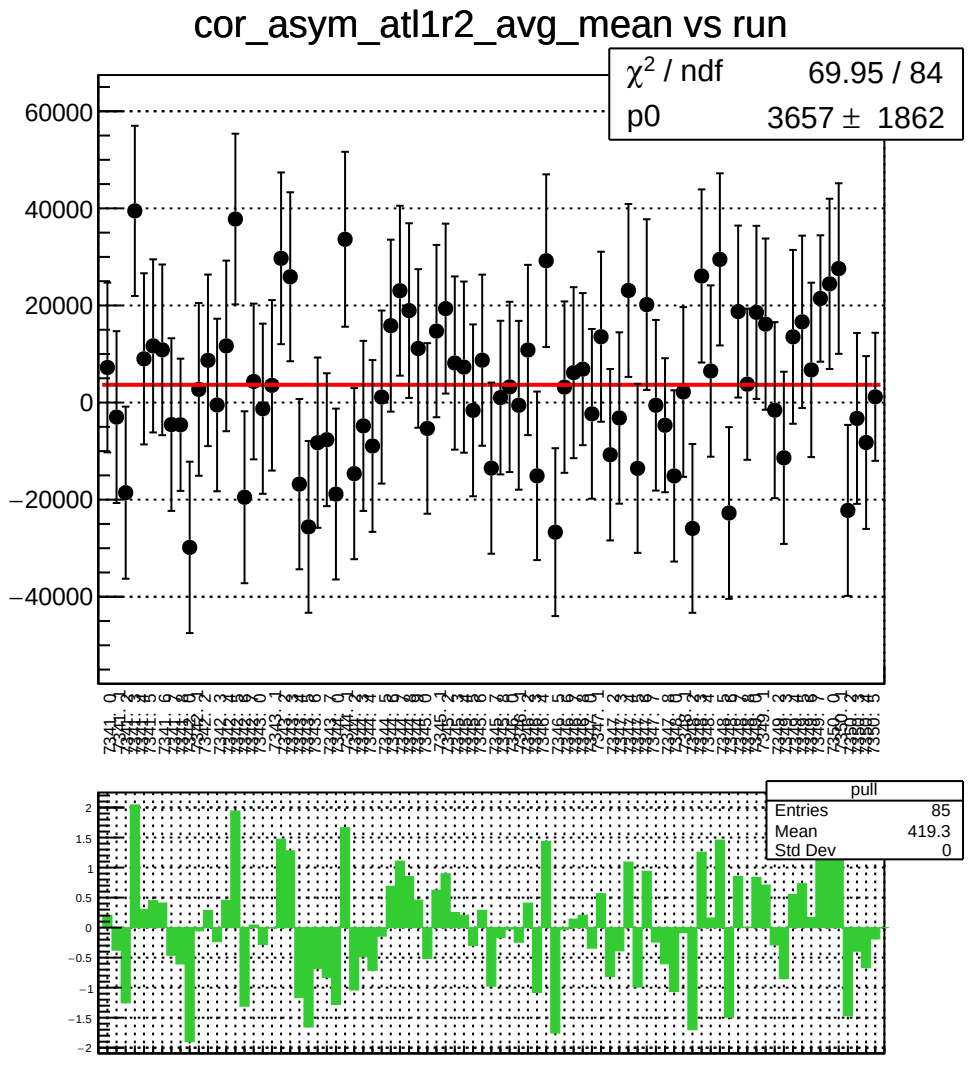

pull1D
Entries 85
Mean 0.002929
Std Dev 0.9072

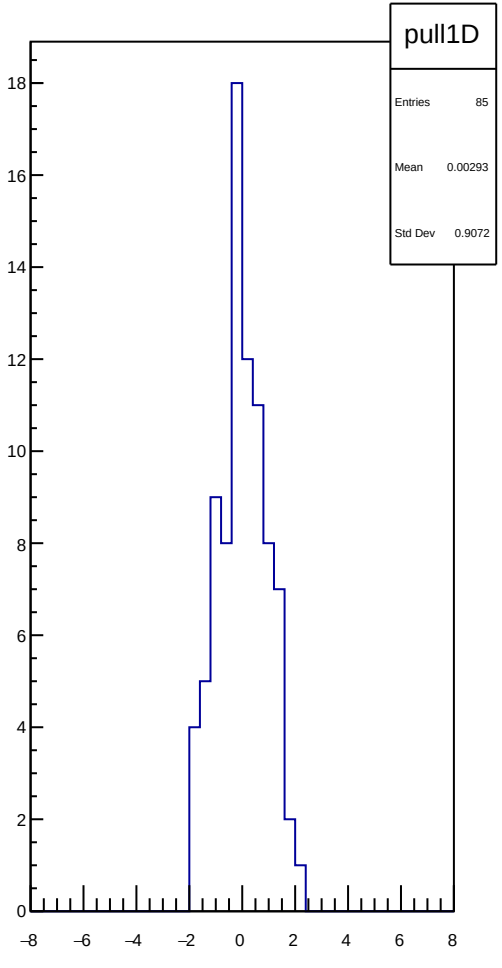

reg_asym_atl1r2_avg_rms vs run
χ^2 / ndf 106.6 / 84
p0 1674 ± 1.317
1740
1720
1700
1680
1660
1640
1620

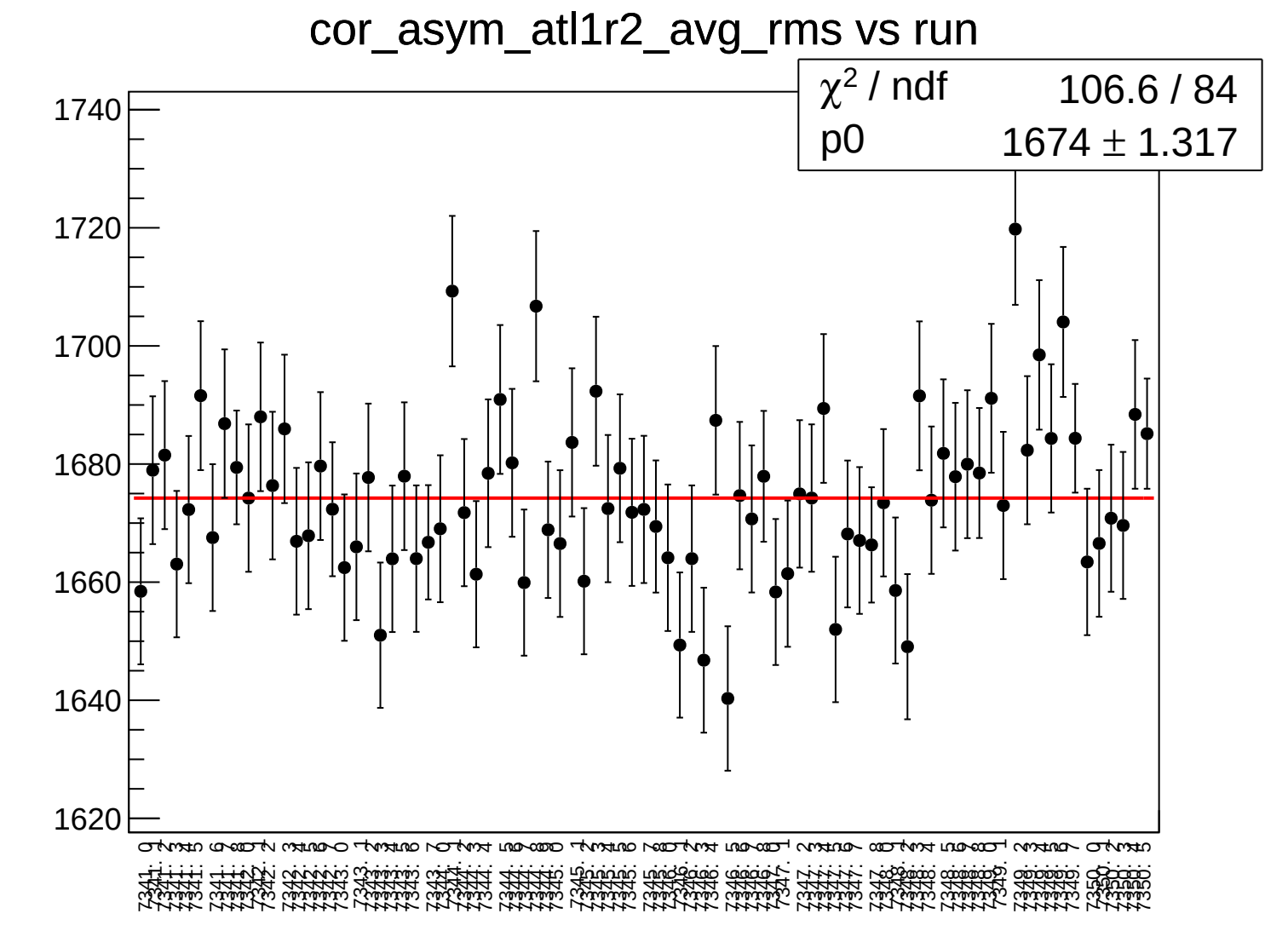

asym_atl1r2_avg_reg_correction_mean vs run
χ² / ndf 71.29 / 84
p0 −3501 ± 8130
×10³
200
100
0
−100
−200
pull
Entries 85
Mean −130.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

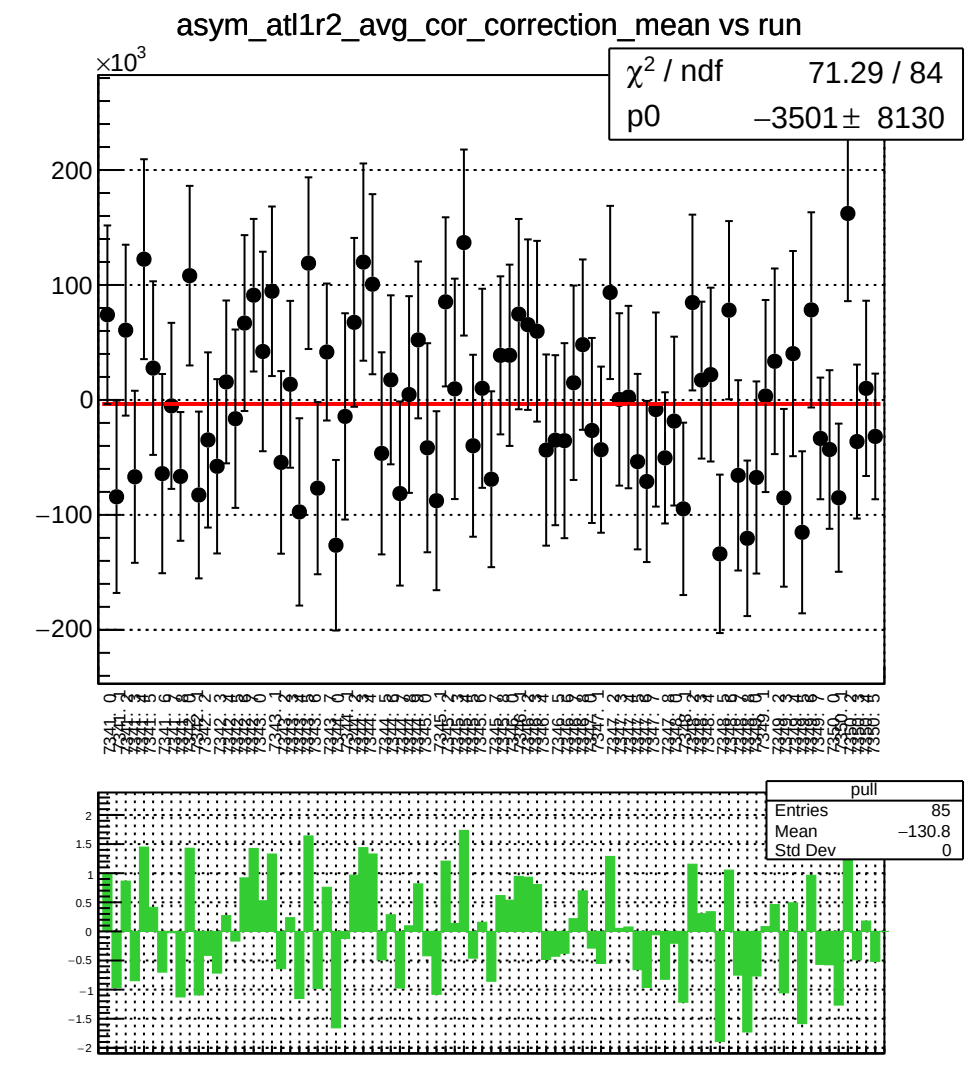

pull1D
Entries 85
Mean 0.01988
Std Dev 0.9156
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

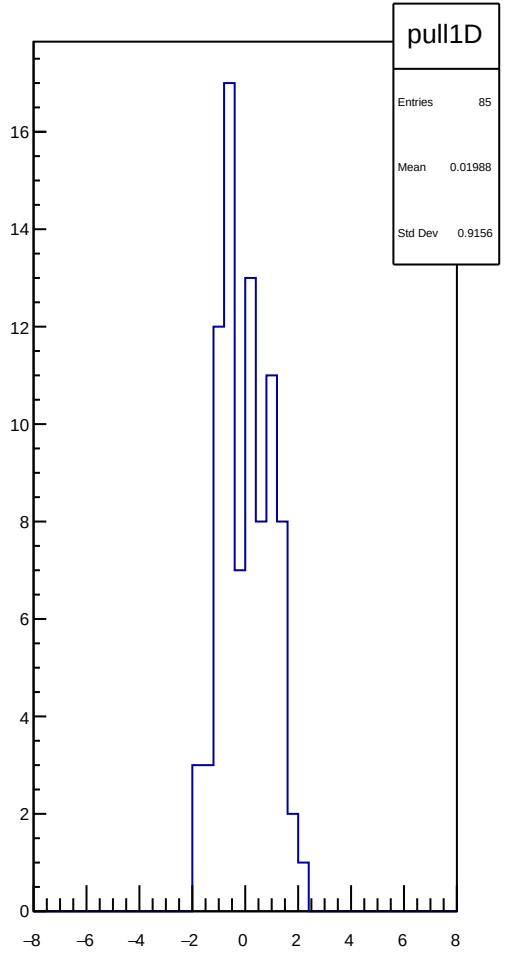

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 8581 / 84
p0 7290 ± 5.749
9000
8500
8000
7500
7000
6500
6000

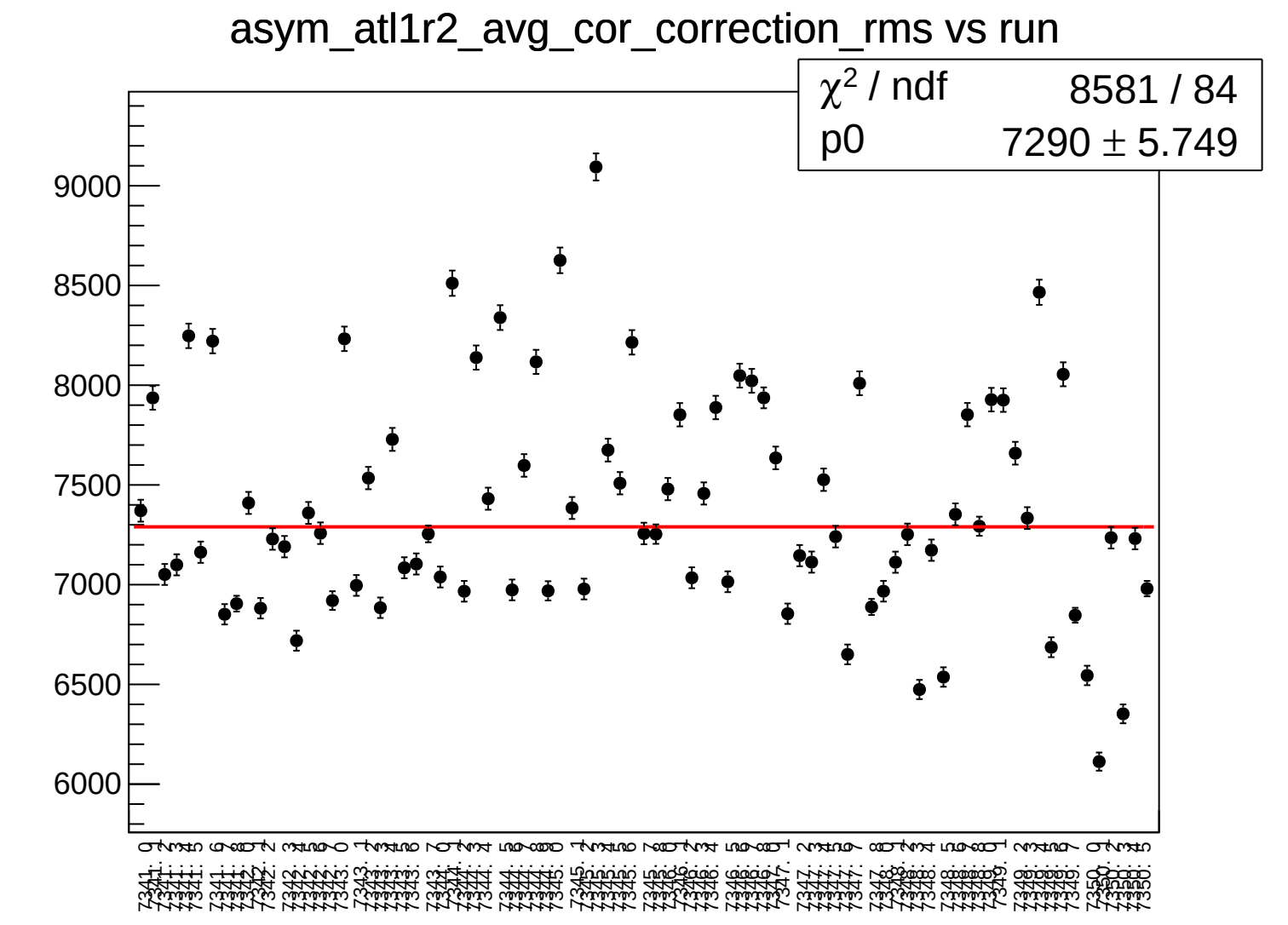

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 69.95 / 84
p0 3657 ± 1862
pull
Entries 85
Mean 419.3
Std Dev 0

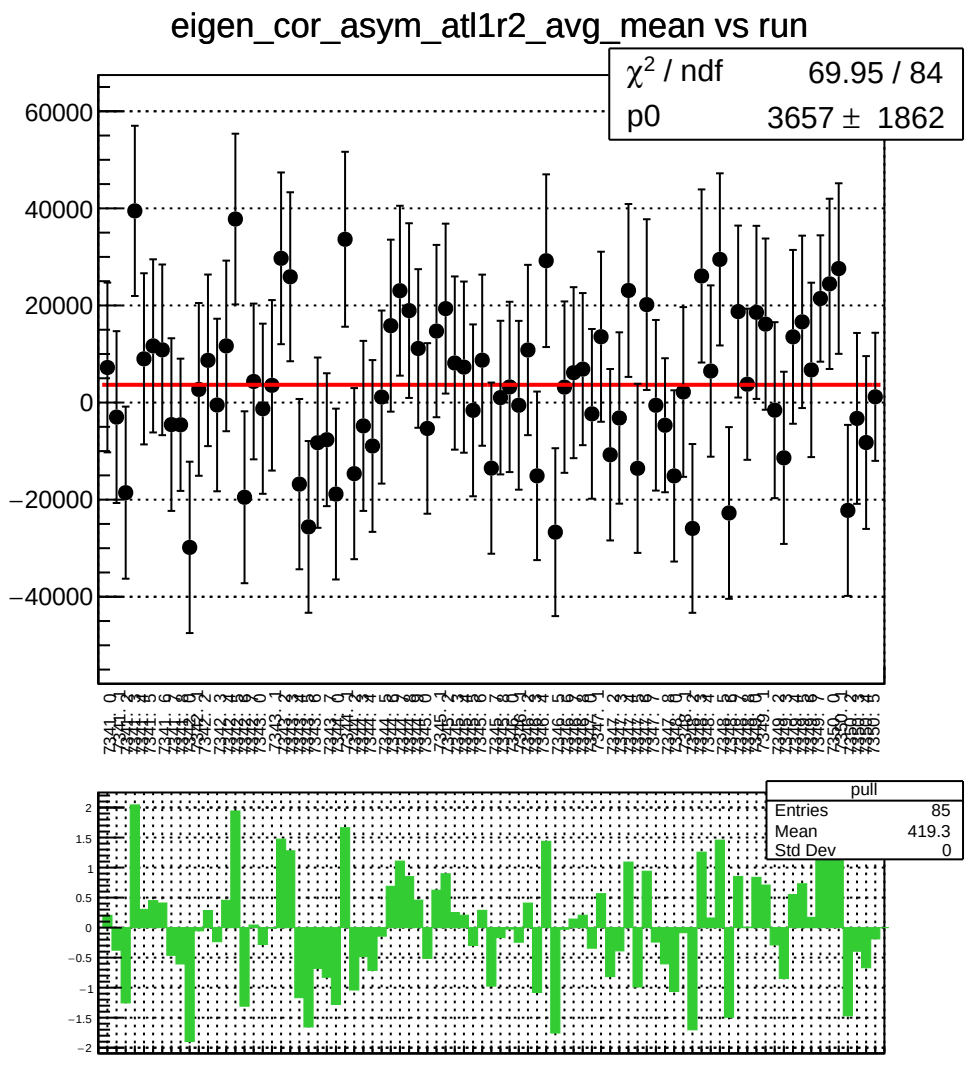

pull1D
Entries 85
Mean 0.00293
Std Dev 0.9072

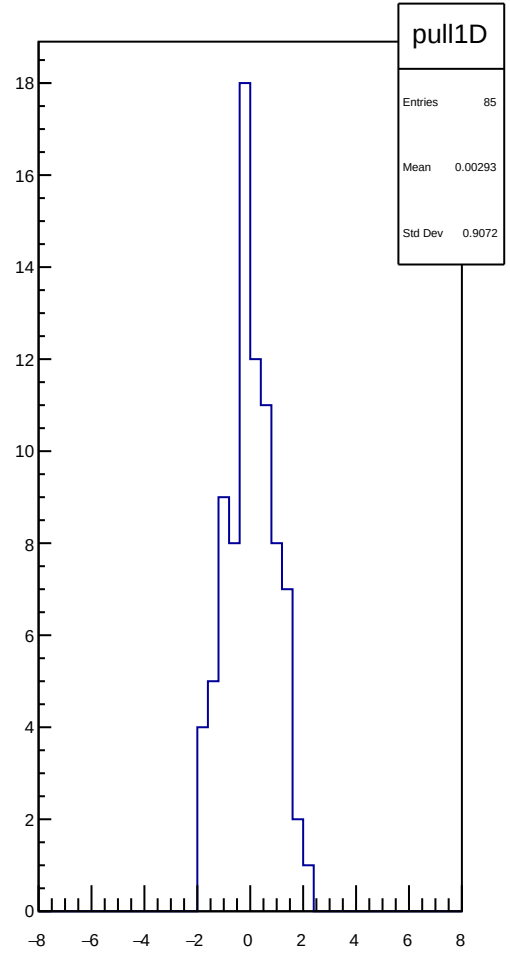

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 106.6 / 84
p0 1674 ± 1.317
1740
1720
1700
1680
1660
1640
1620

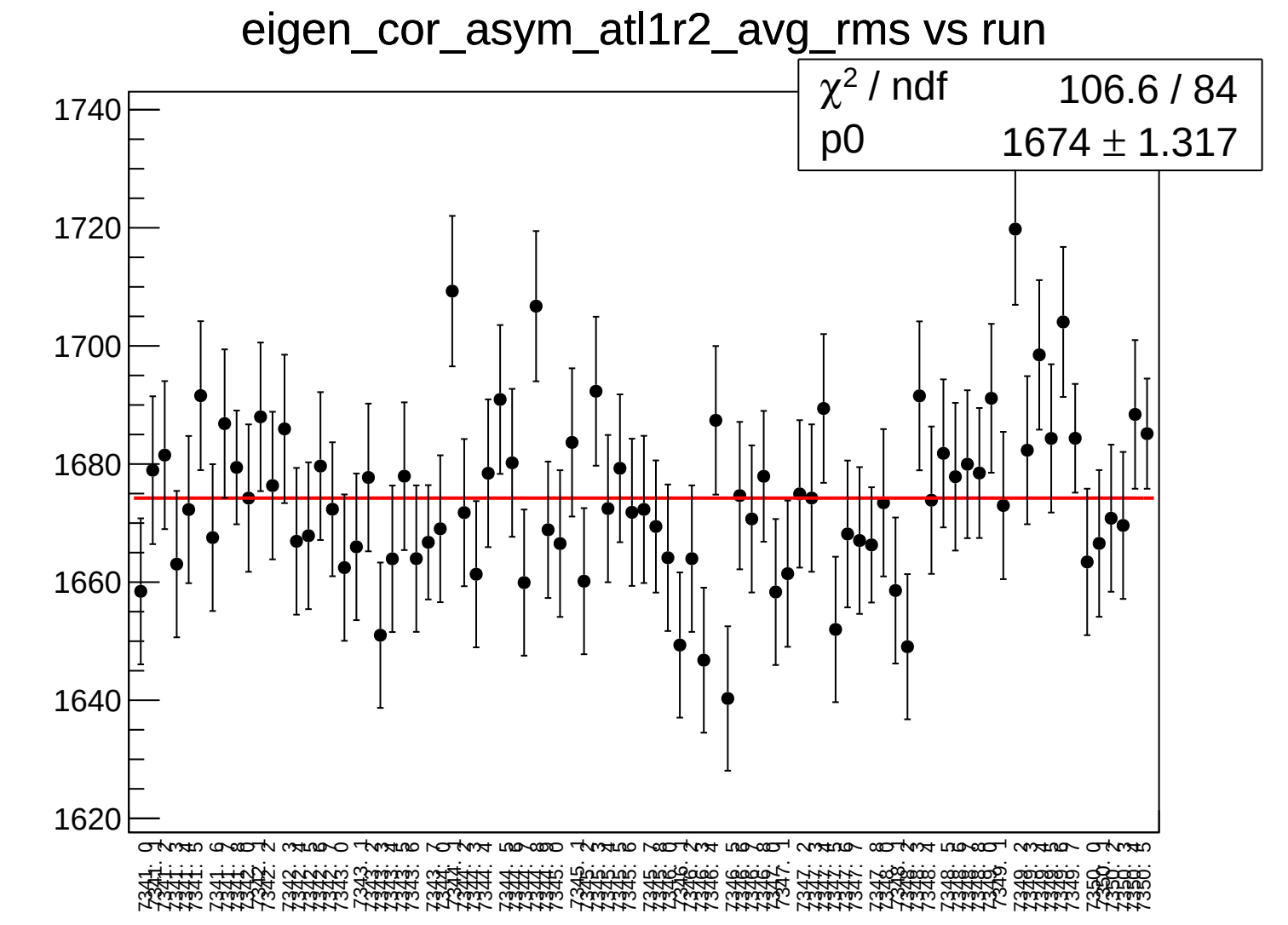

asym_atl1r2_avg_cor_correction_mean vs run
χ² / ndf 71.29 / 84
p0 −3501 ± 8130
×10³
200
100
0
−100
−200
pull
Entries 85
Mean −130.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

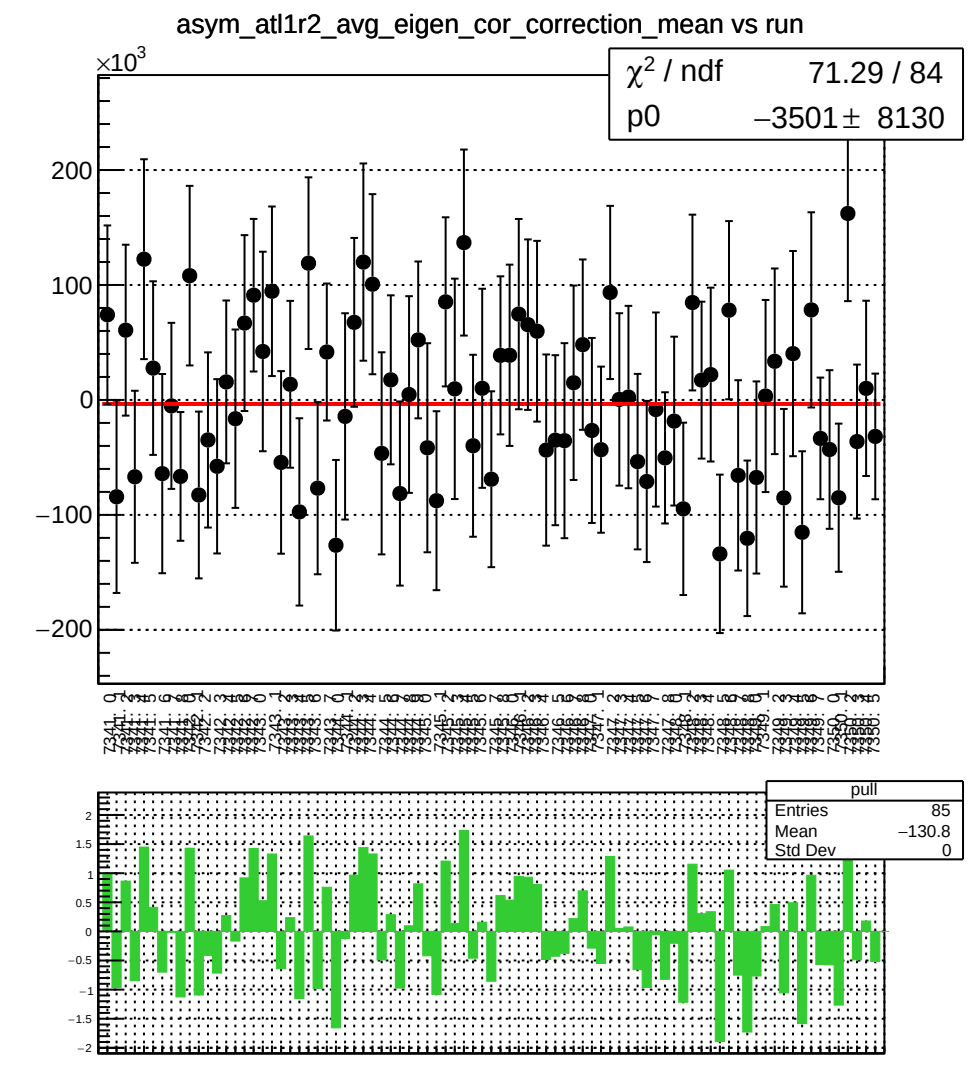

pull1D
Entries 85
Mean 0.01988
Std Dev 0.9156
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

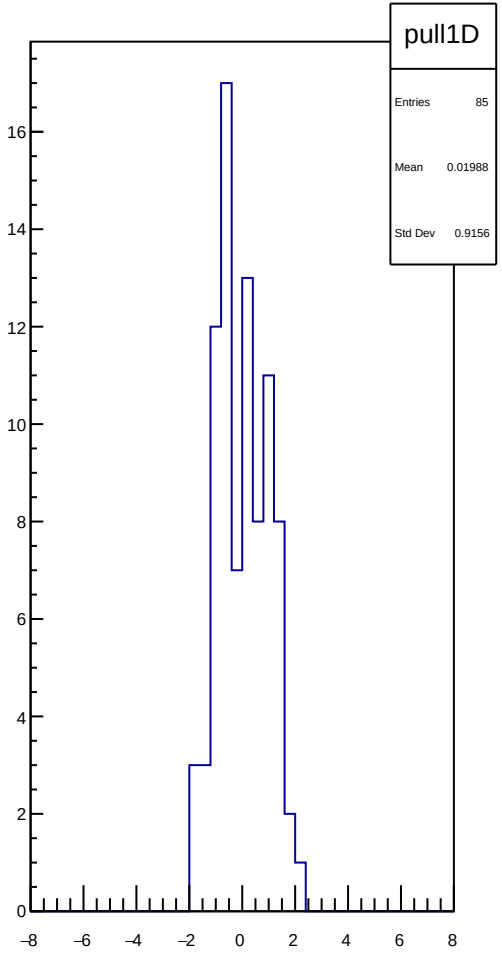

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 8581 / 84
p0 7290 ± 5.749
9000
8500
8000
7500
7000
6500
6000

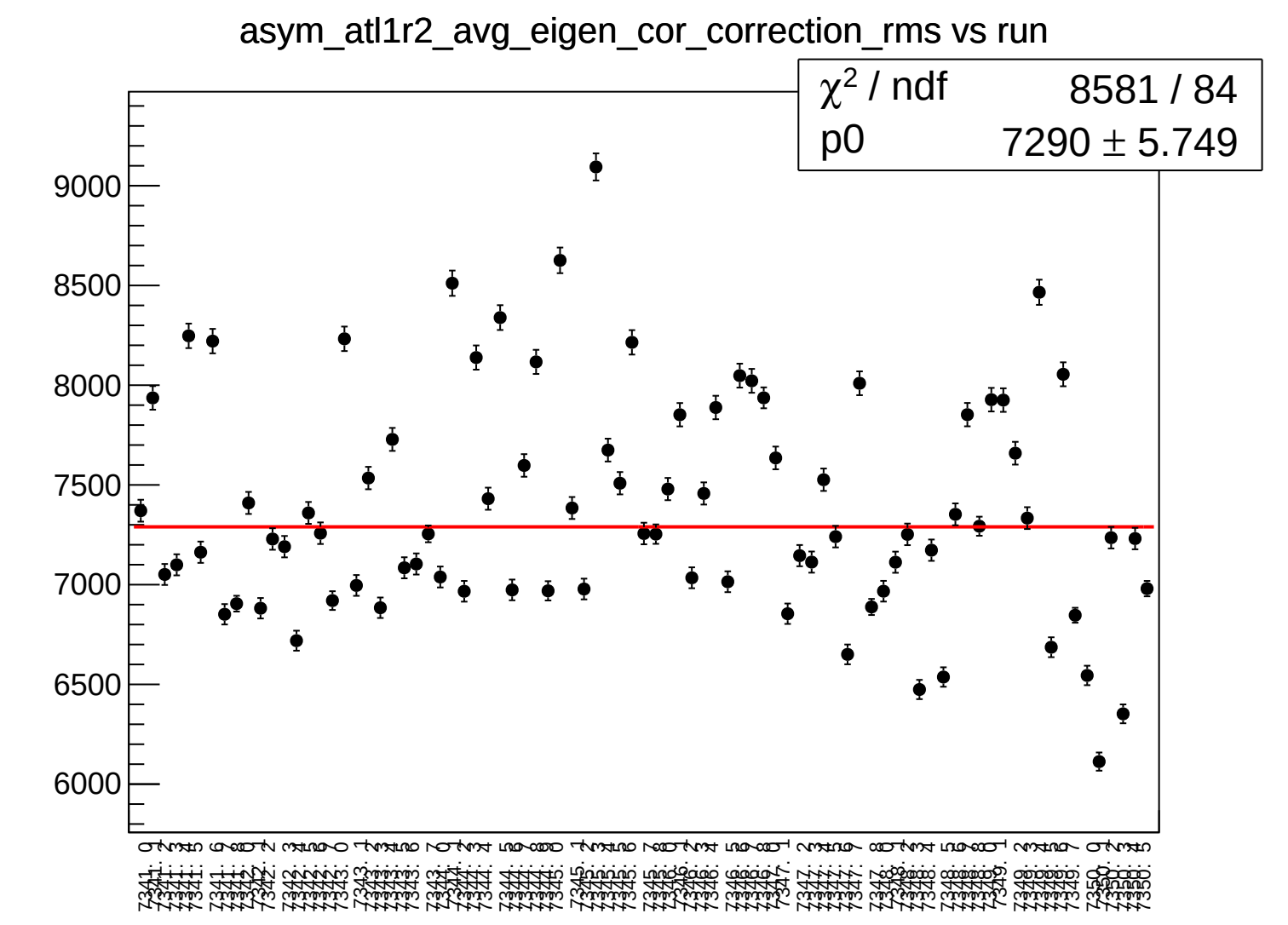

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 69.95 / 84
p0 3657 ± 1862
pull
Entries 85
Mean 419.3
Std Dev 0

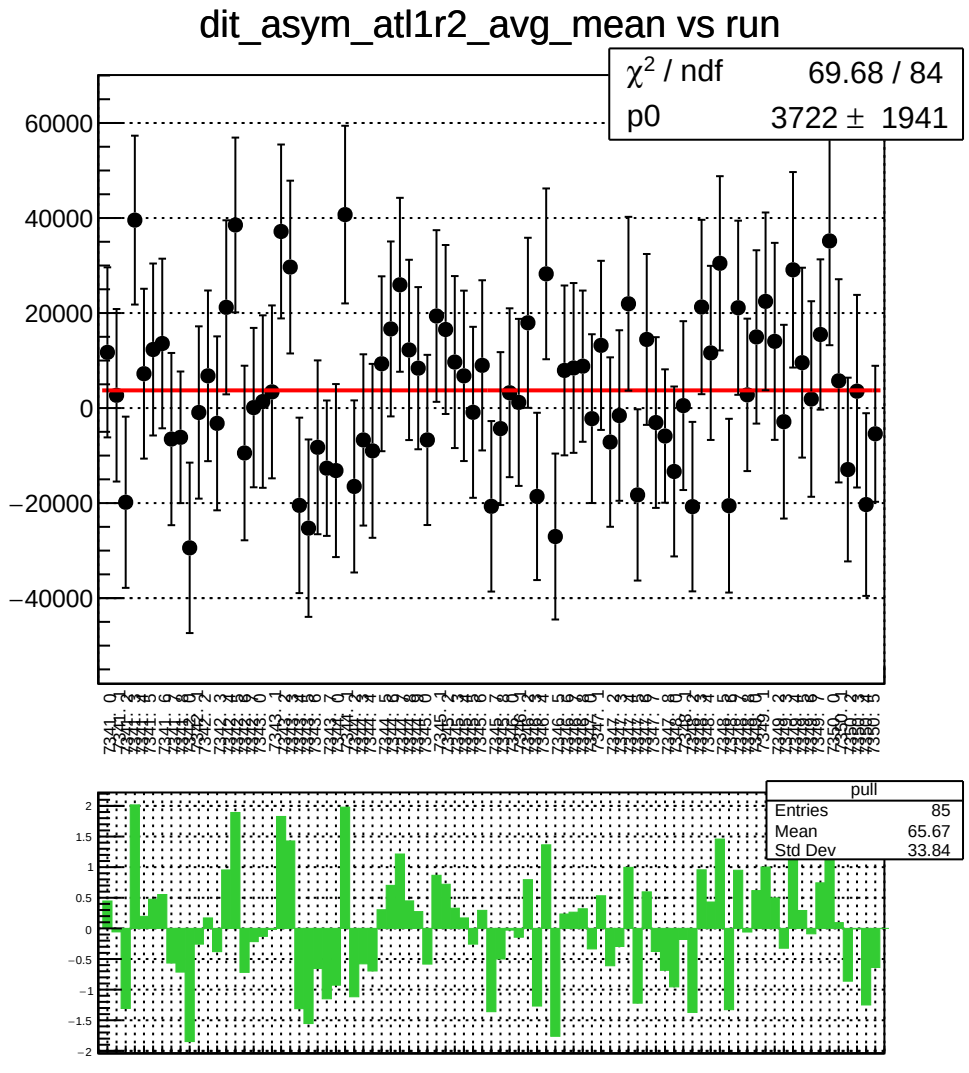

pull1D
Entries 85
Mean 0.00293
Std Dev 0.9072

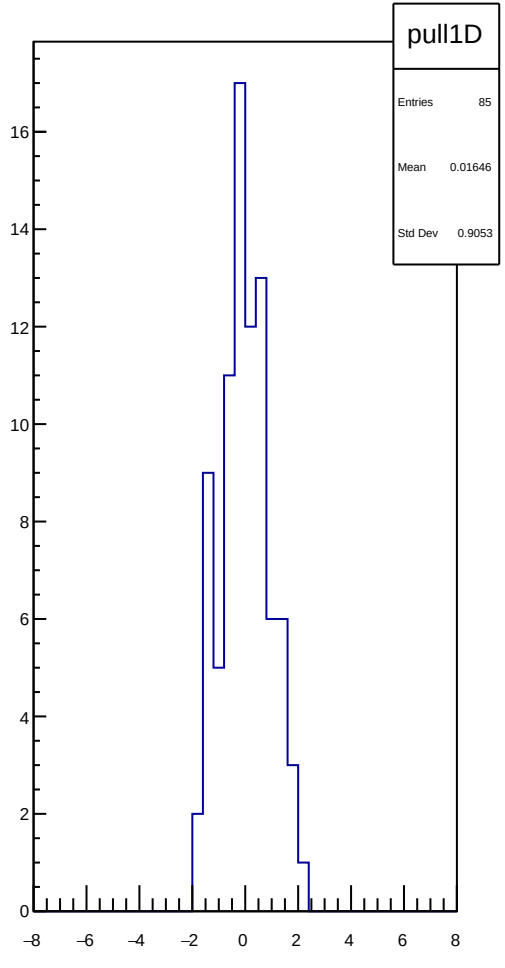

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 106.6 / 84
p0 1674 ± 1.317
1740
1720
1700
1680
1660
1640
1620

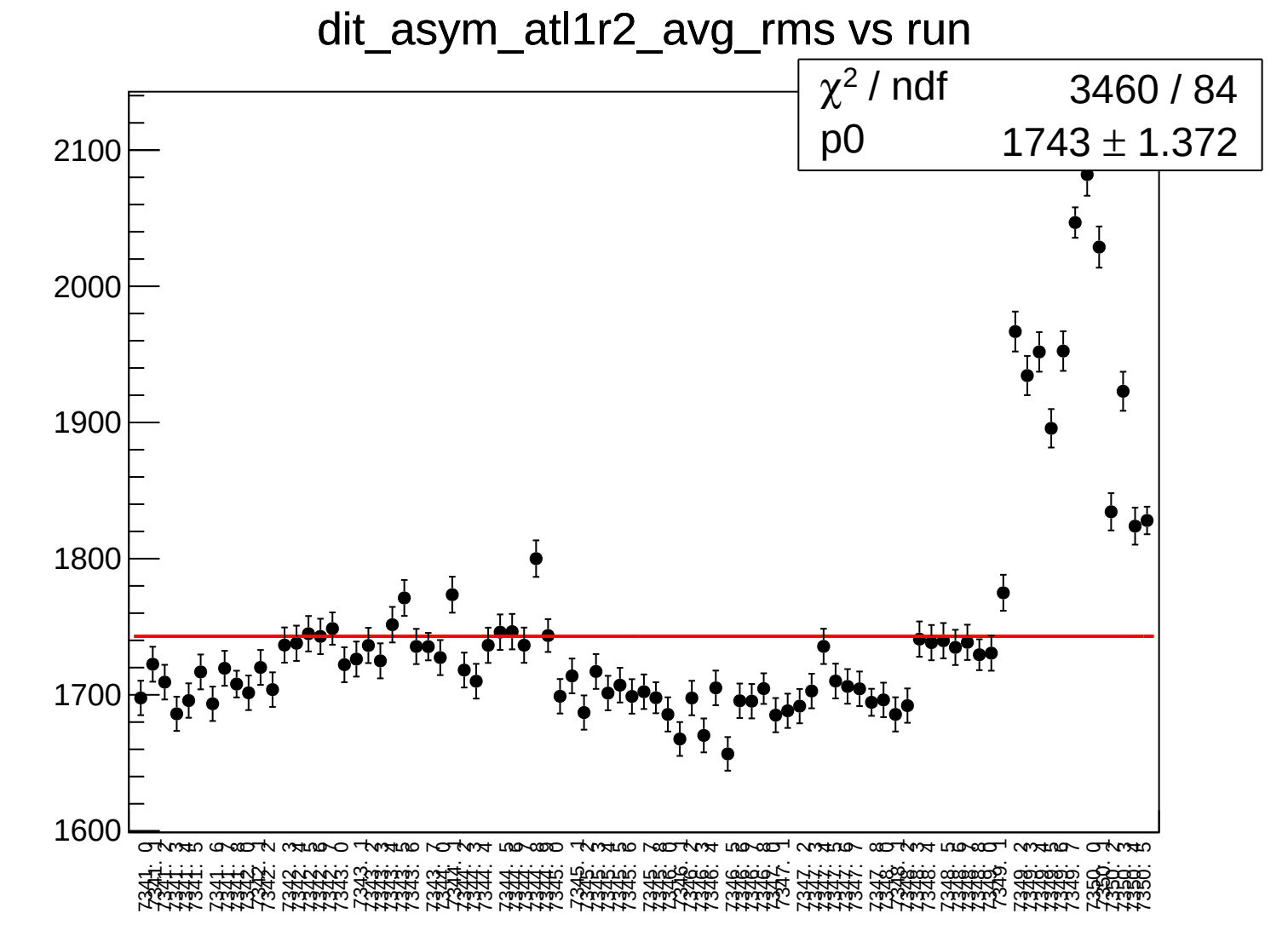

asym_atl1r2_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.29 / 84
p0 −3501 ± 8130
×10³
pull
Entries 85
Mean −130.8
Std Dev 0

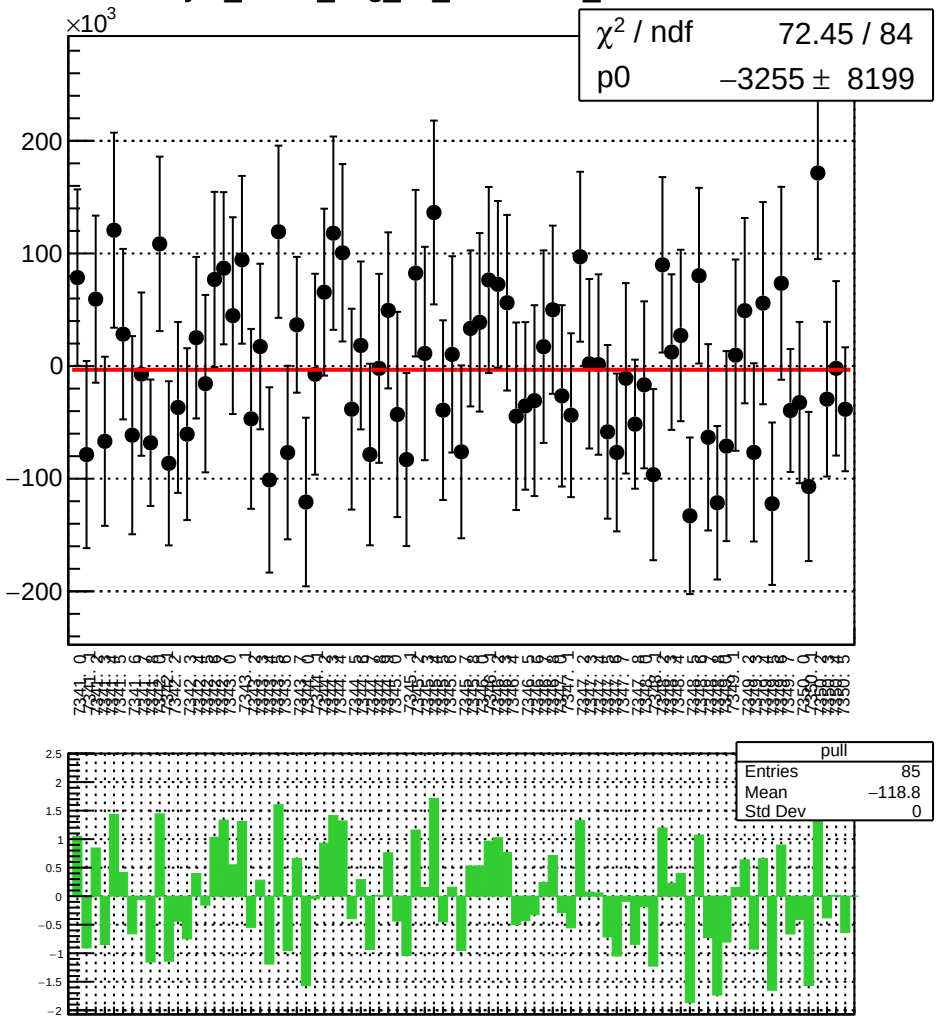

pull1D
Entries 85
Mean 0.01988
Std Dev 0.9156

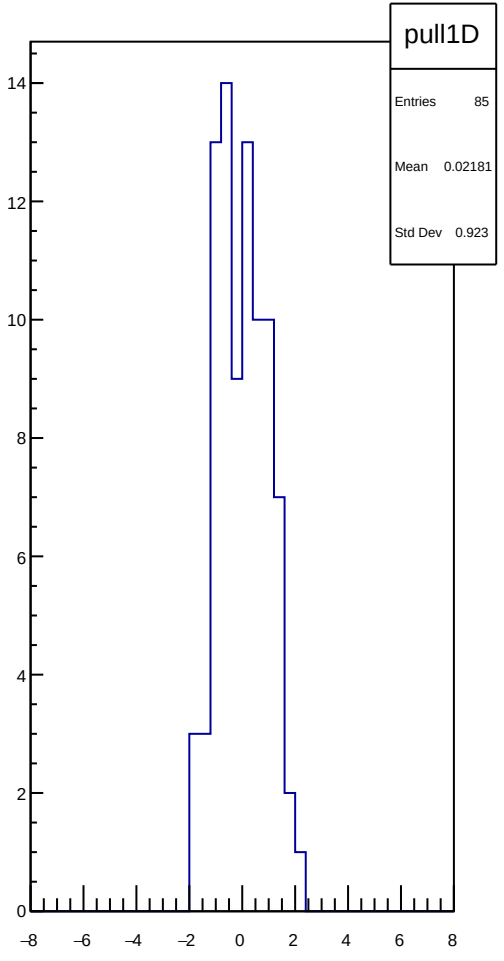

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 8581 / 84
p0 7290 ± 5.749
9000
8500
8000
7500
7000
6500
6000

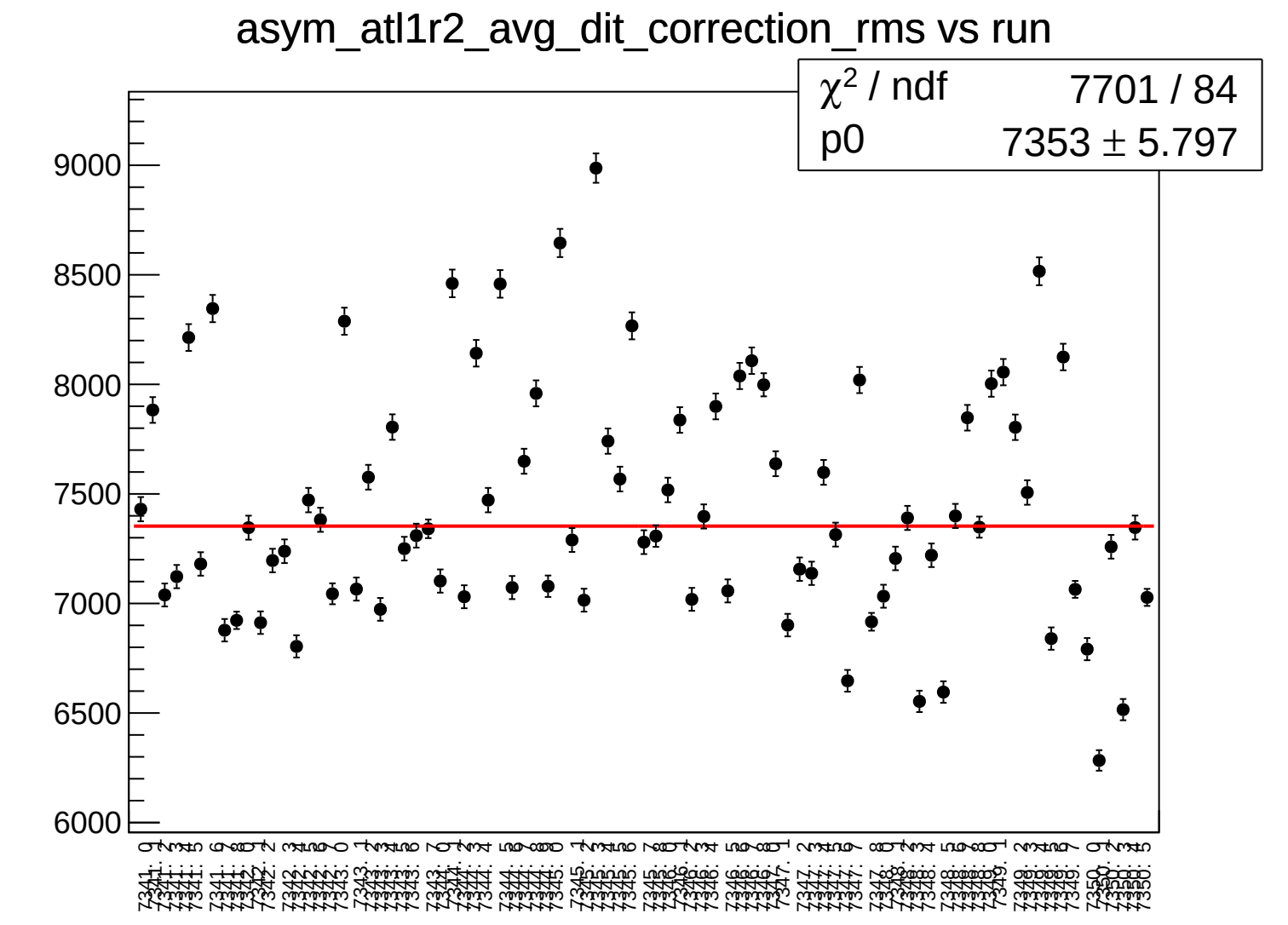

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 69.68 / 84
p0 3722 ± 1941
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 65.67
Std Dev 33.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

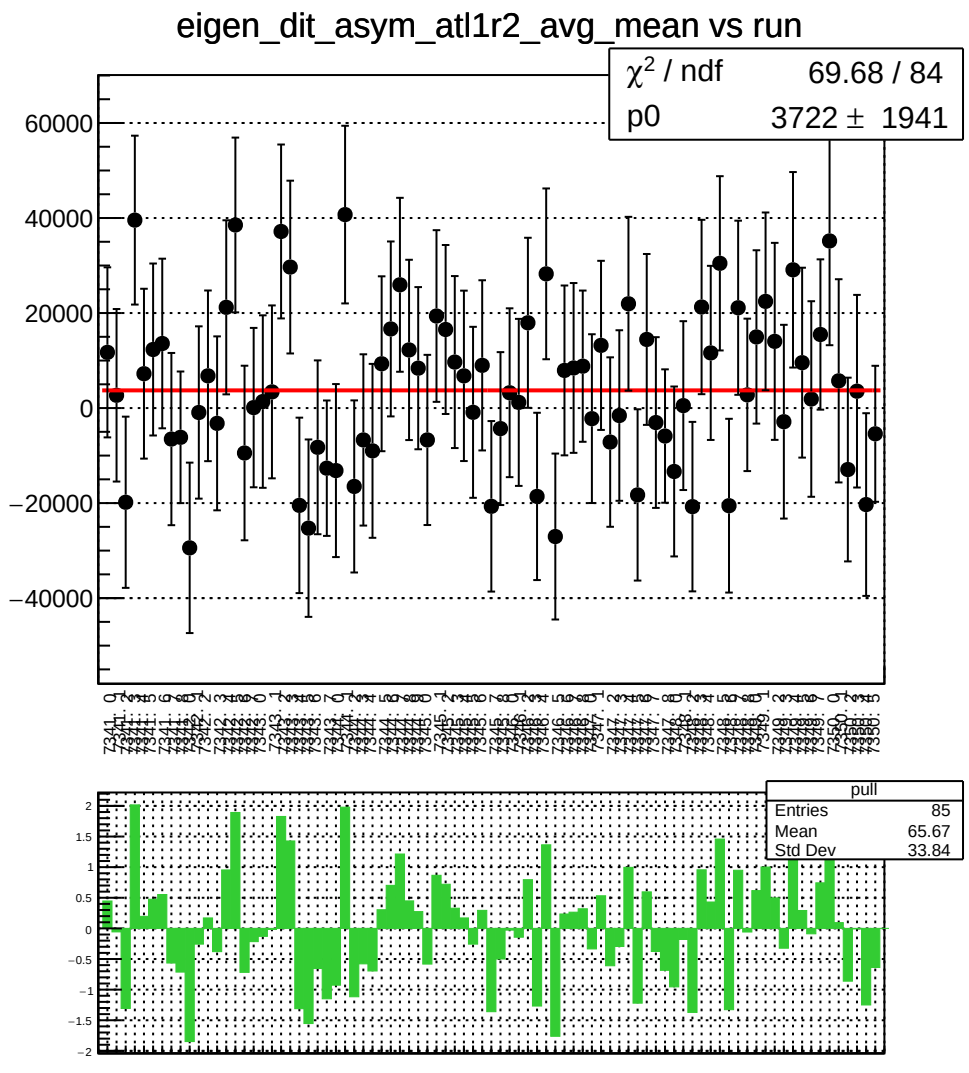

pull1D
Entries 85
Mean 0.01646
Std Dev 0.9053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

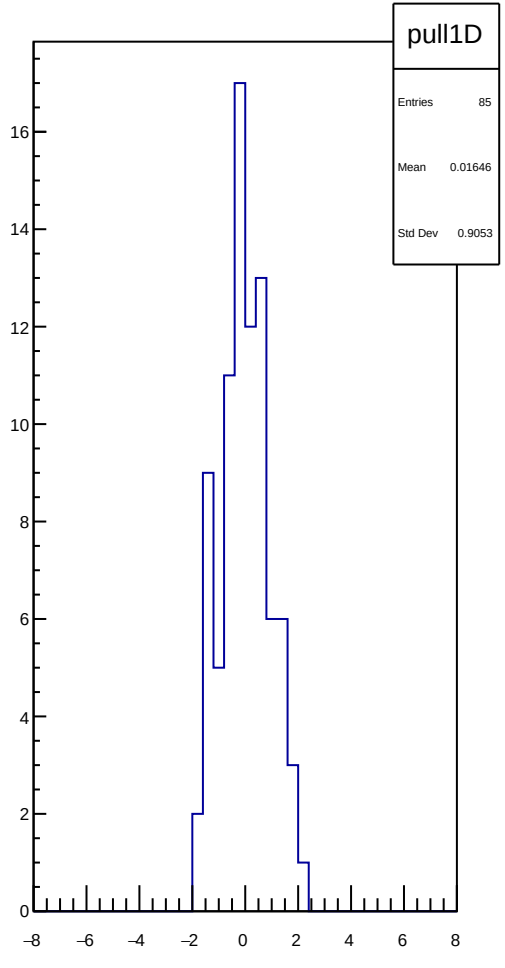

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 3460 / 84
p0 1743 ± 1.372
2100
2000
1900
1800
1700
1600

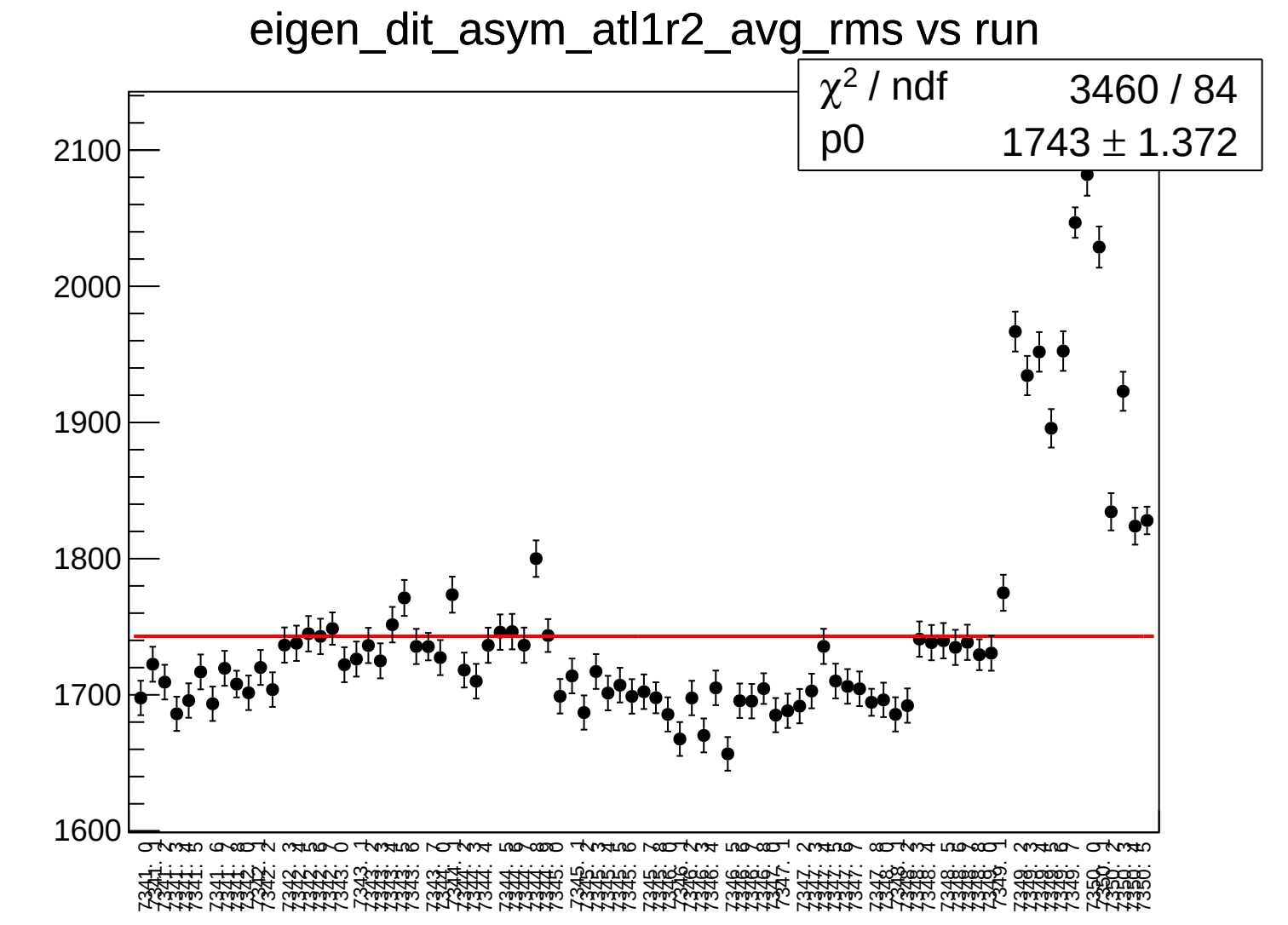

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.45 / 84
p0 −3255 ± 8199
200
100
0
−100
−200
pull
Entries 85
Mean −118.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

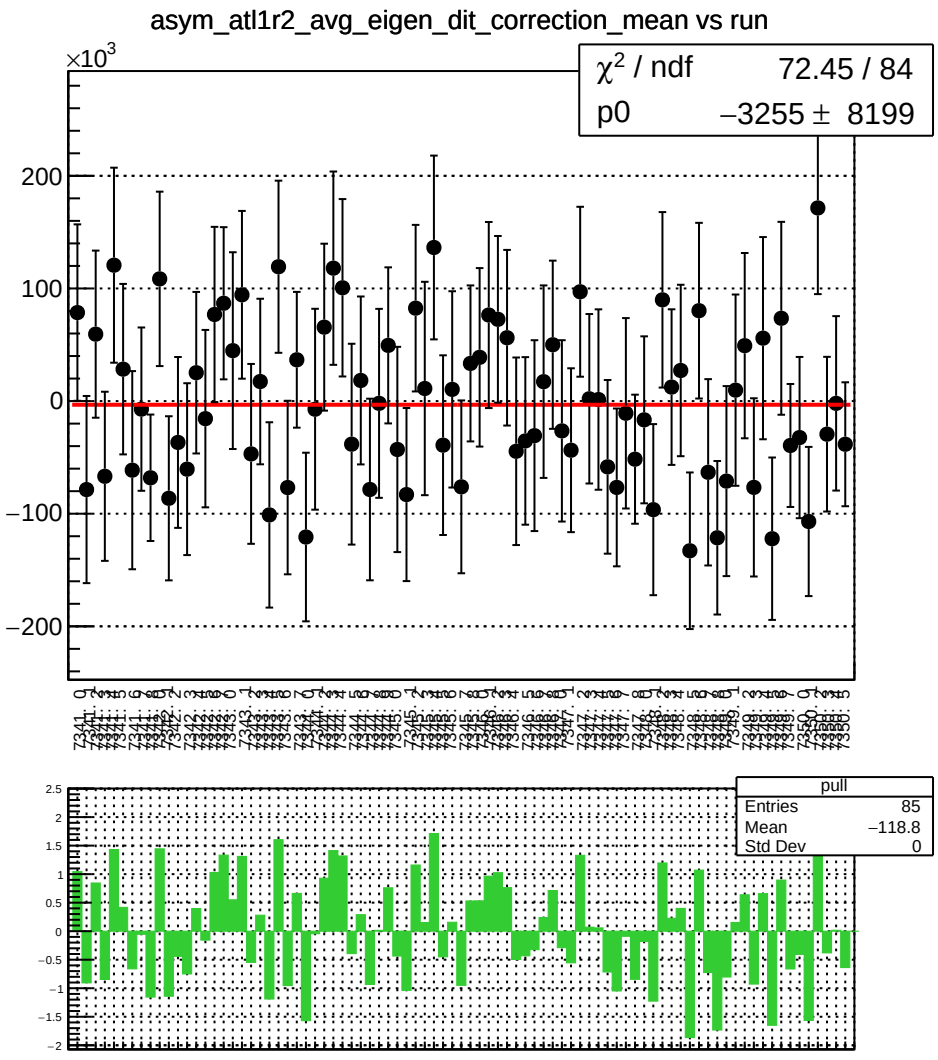

pull1D
Entries 85
Mean 0.02181
Std Dev 0.923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

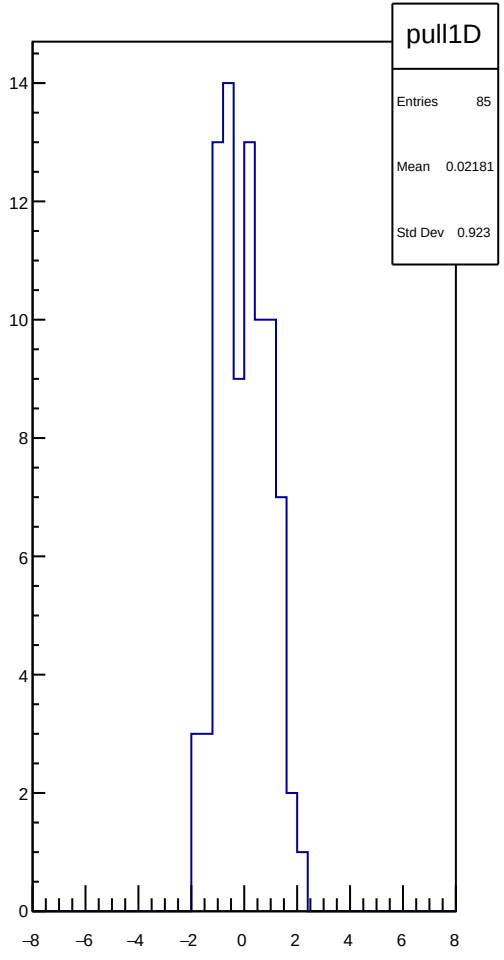

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 7701 / 84
p0 7353 ± 5.797
9000
8500
8000
7500
7000
6500
6000

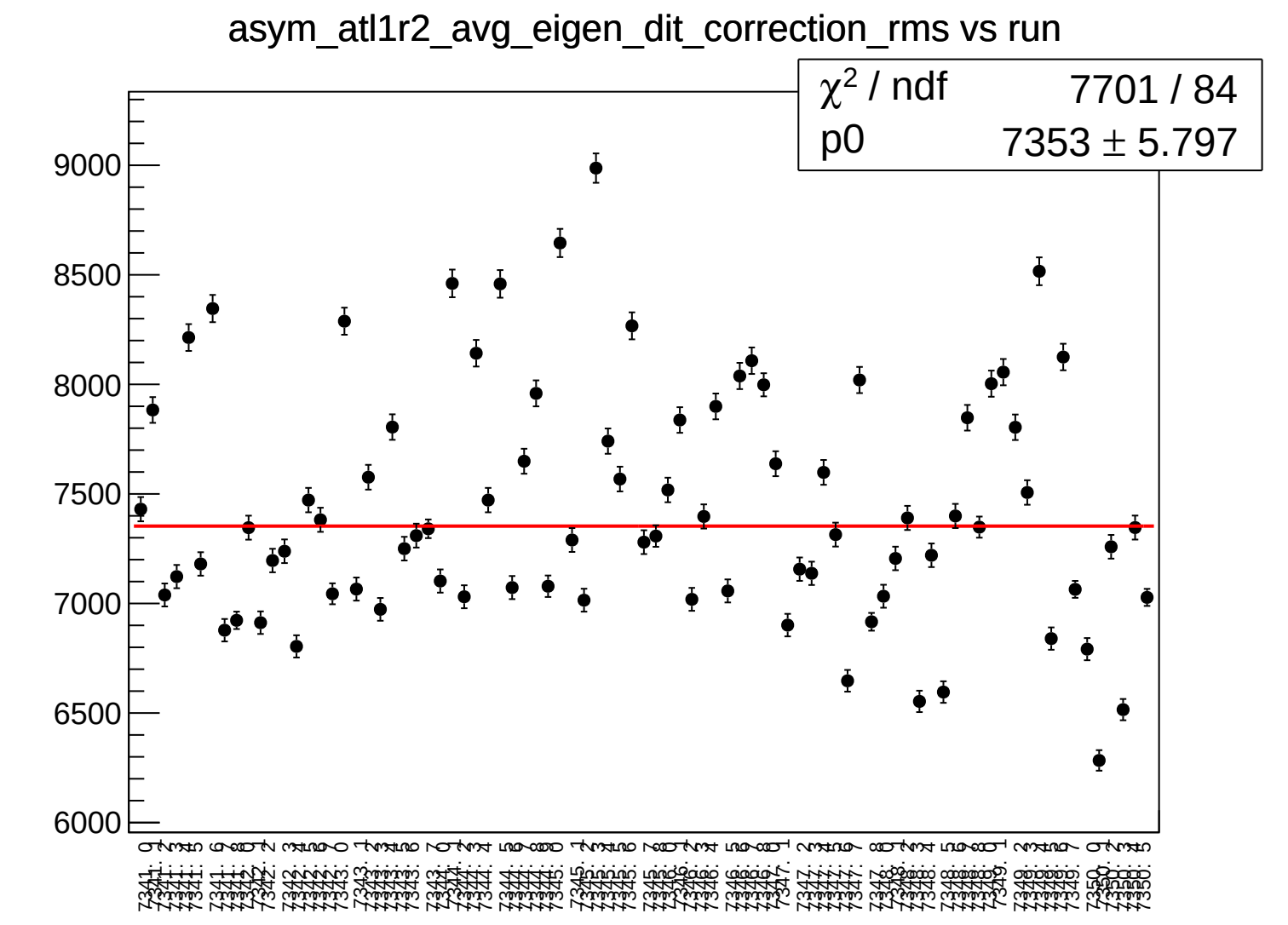

eigen_dit_asym_atl1r2_avg_mean vs run
χ^2 / ndf 69.68 / 84
p0 3722 ± 1941
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 65.67
Std Dev 33.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

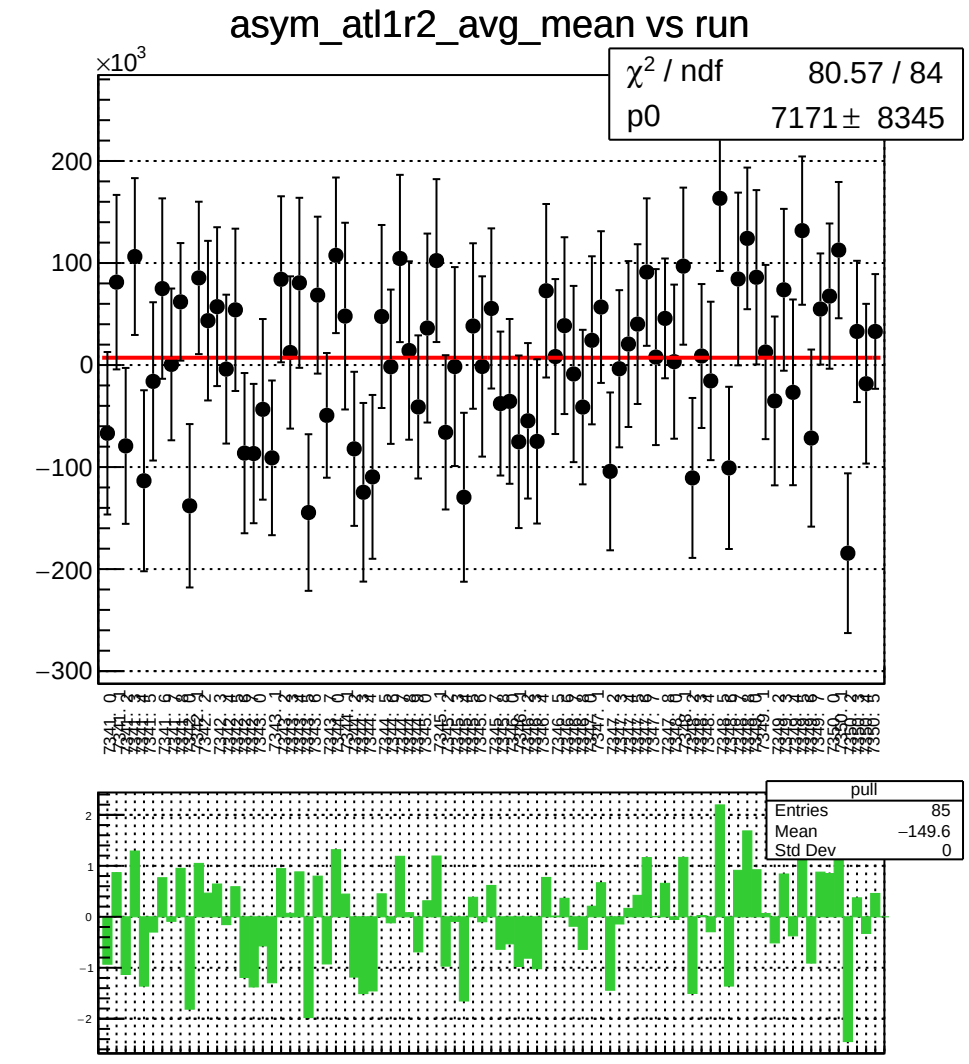

pull1D
Entries 85
Mean 0.01646
Std Dev 0.9053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

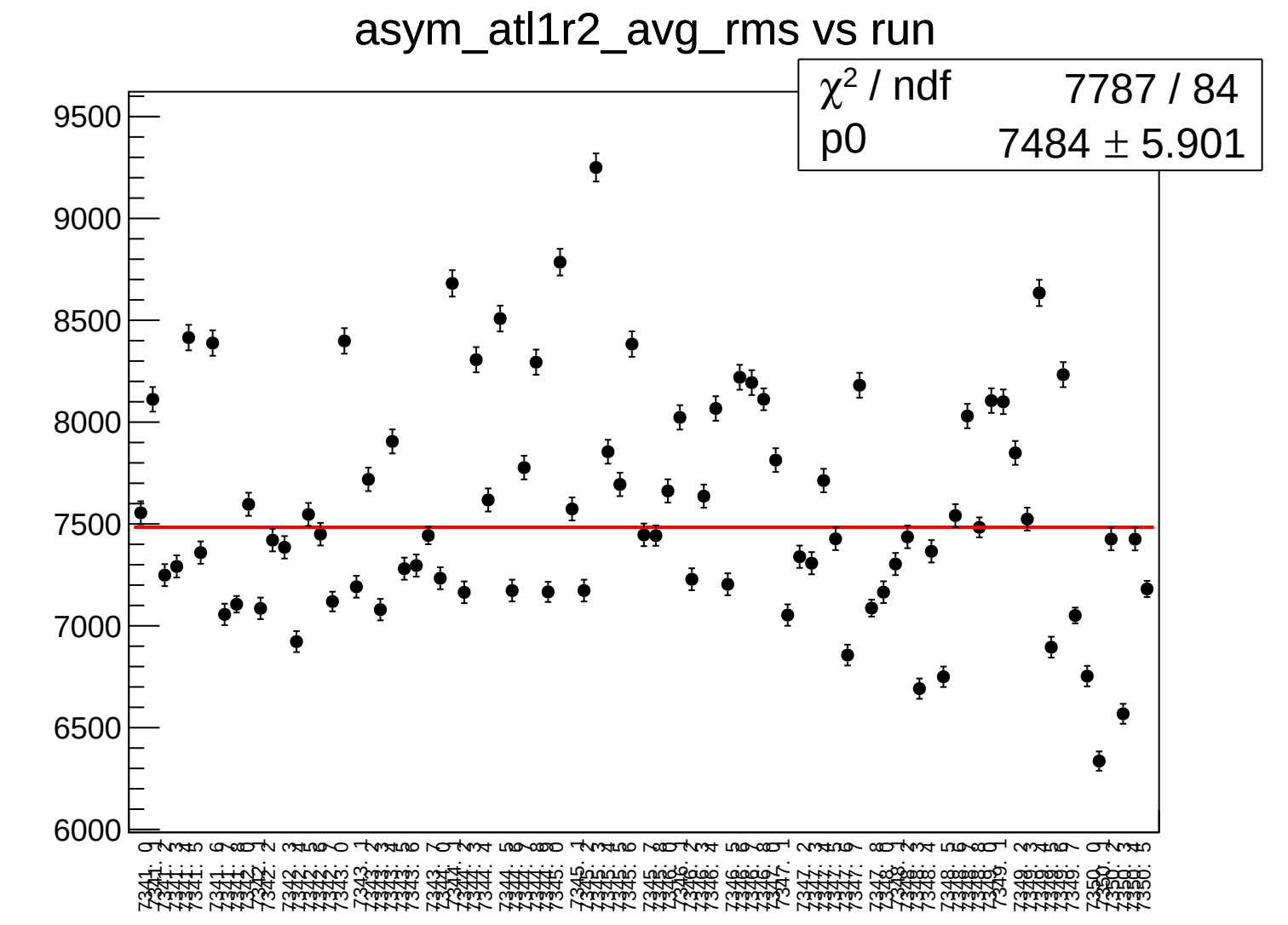

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 3460 / 84
p0 1743 ± 1.372
2100
2000
1900
1800
1700
1600

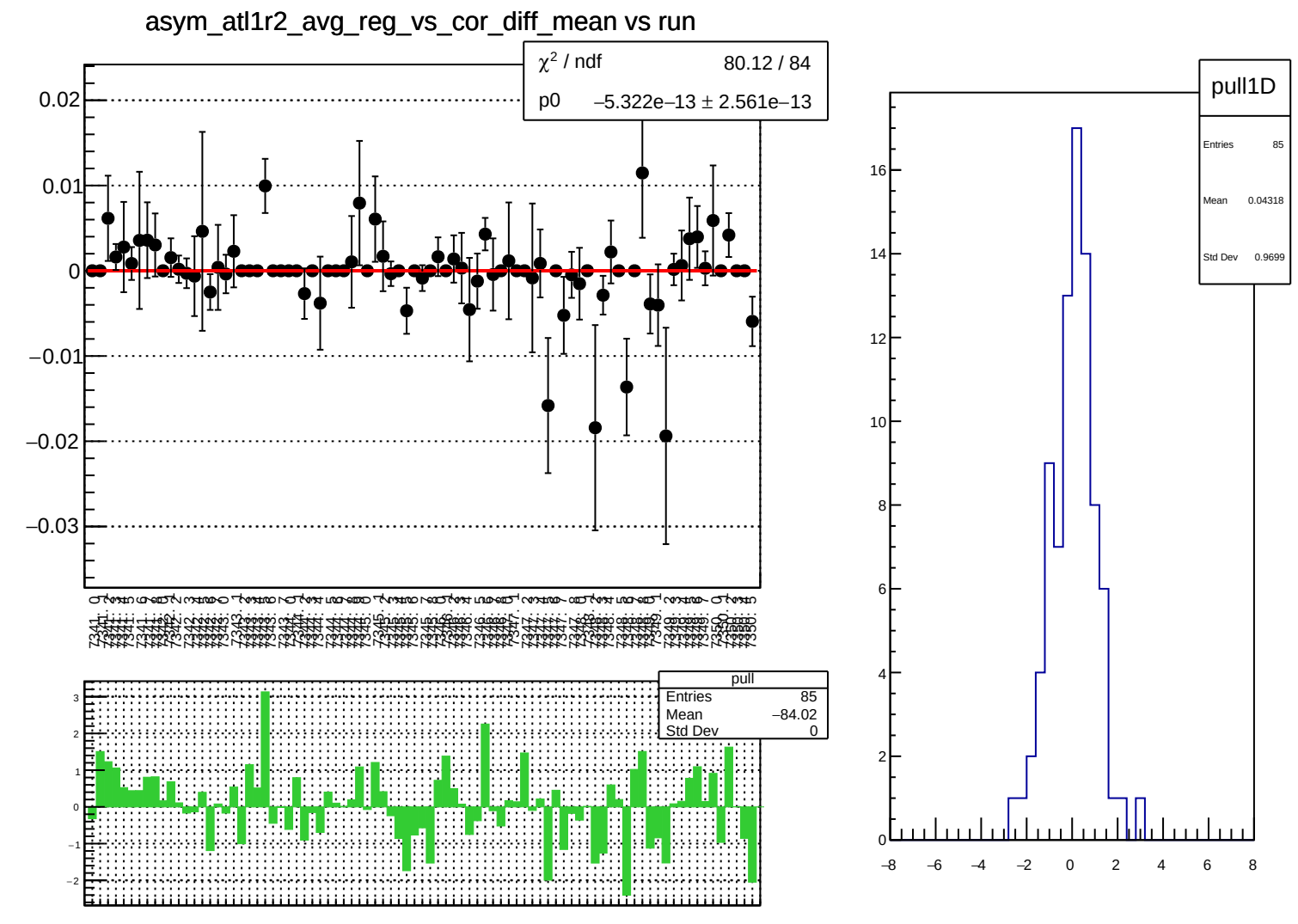

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.45 / 84
p0 −3255 ± 8199
200
100
0
−100
−200
pull
Entries 85
Mean −118.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

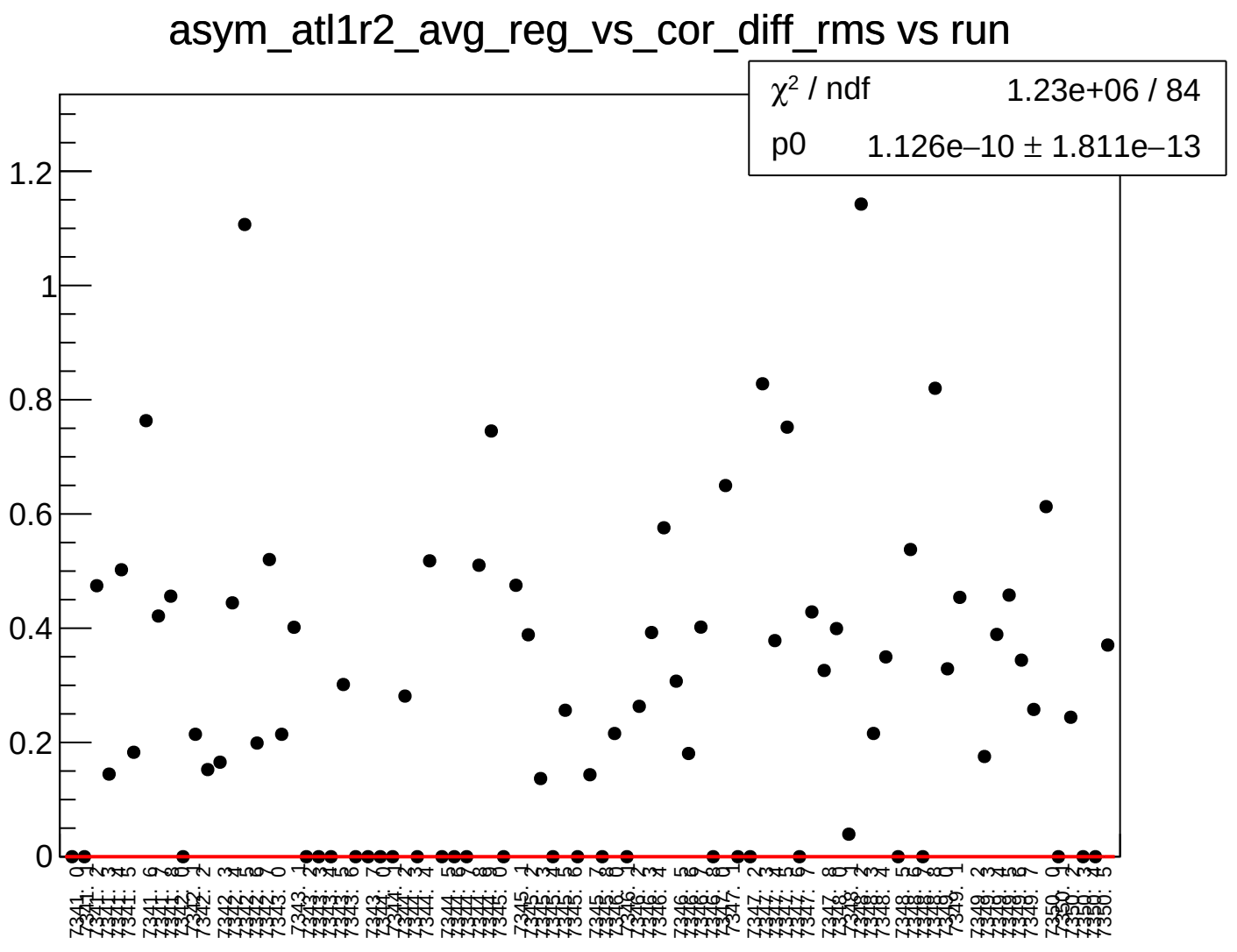

pull1D
Entries 85
Mean 0.02181
Std Dev 0.923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

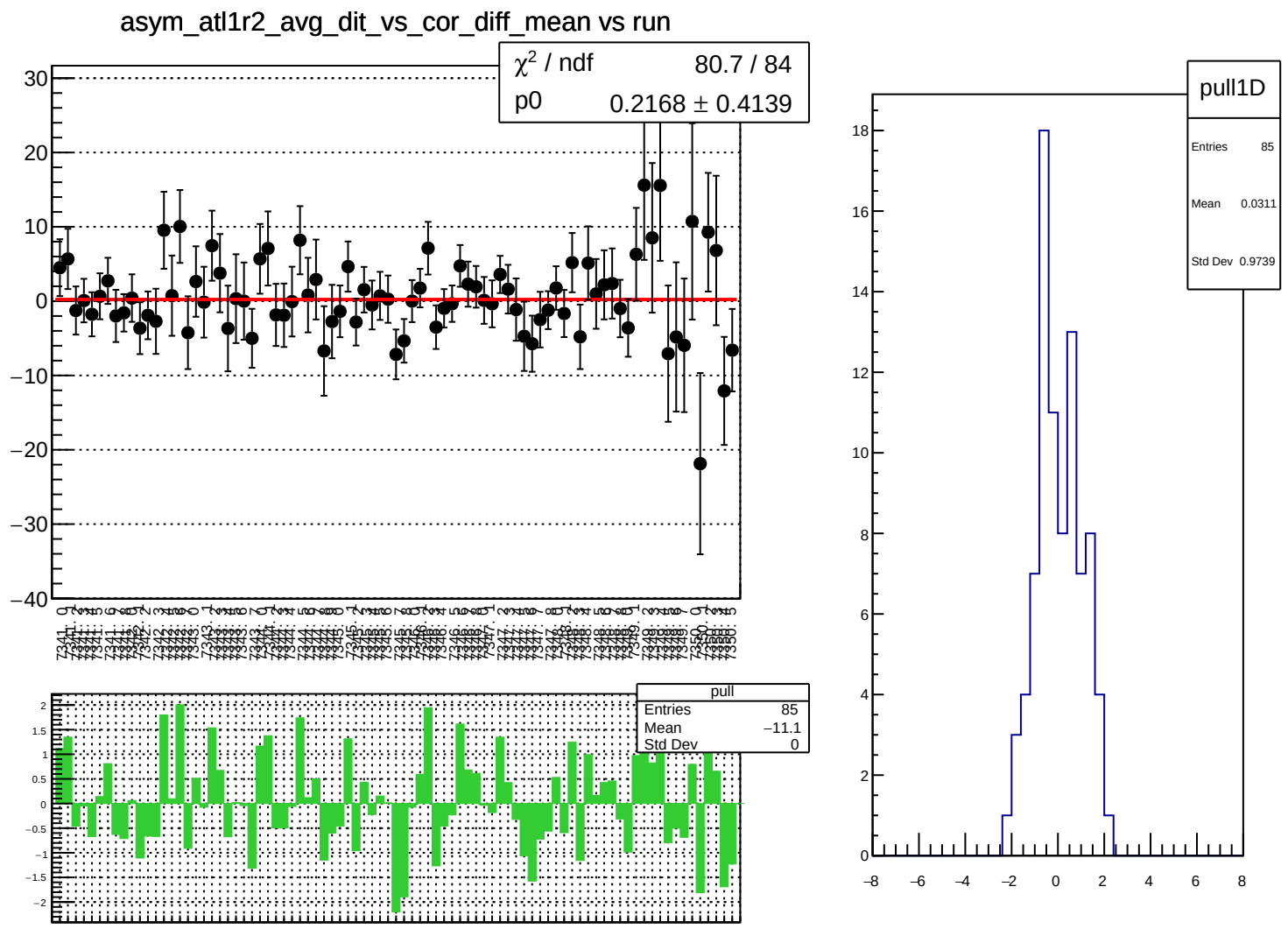

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7701 / 84
p0 7353 ± 5.797
9000
8500
8000
7500
7000
6500
6000

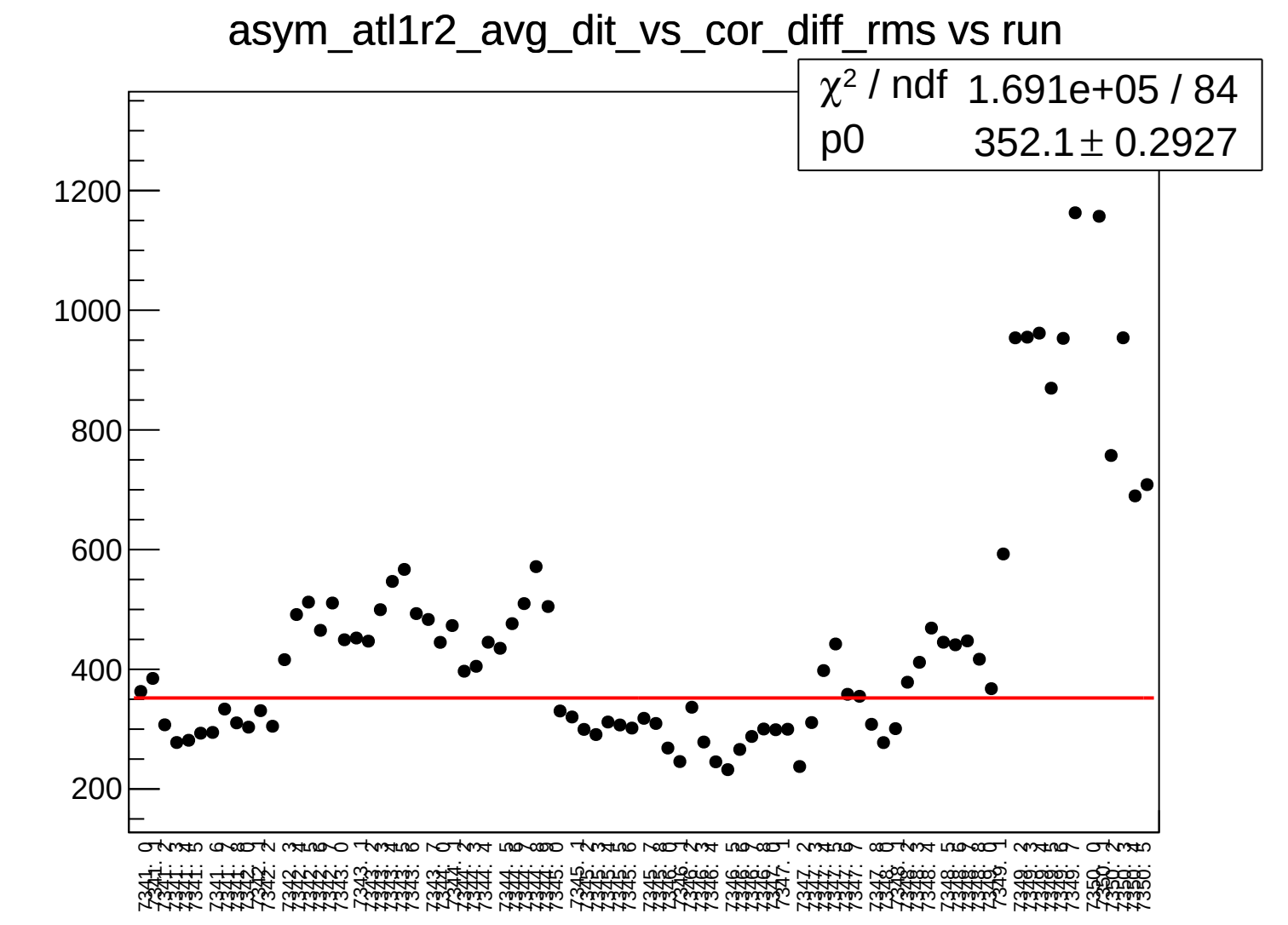

asym_atl1r2_avg_mean vs run
χ² / ndf 80.57 / 84
p0 7171 ± 8345
pull
Entries 85
Mean −149.6
Std Dev 0
pull1D
Entries 85
Mean −0.01898
Std Dev 0.9734

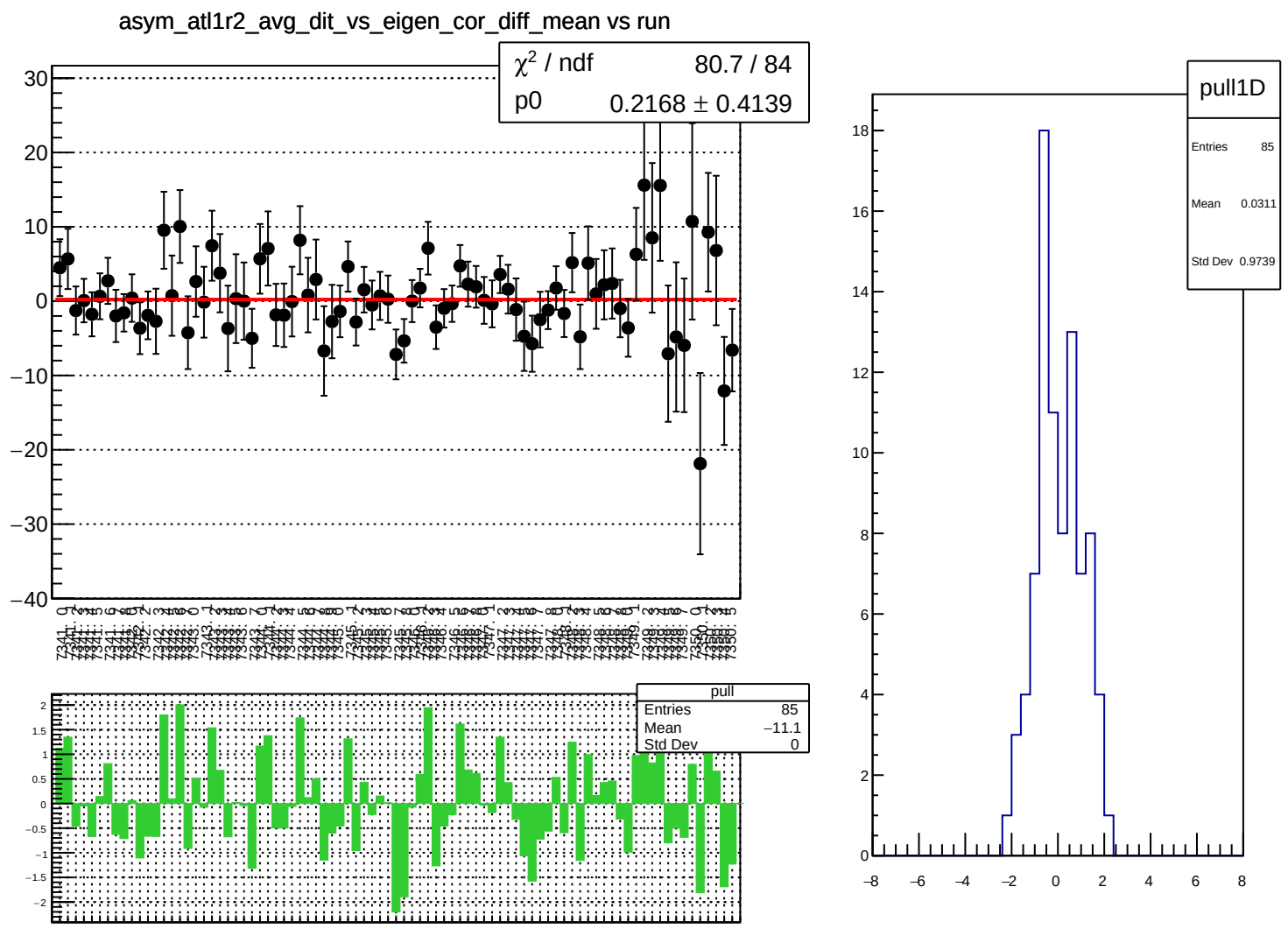

asym_atl1r2_avg_rms vs run
χ² / ndf 7787 / 84
p0 7484 ± 5.901
9500
9000
8500
8000
7500
7000
6500
6000

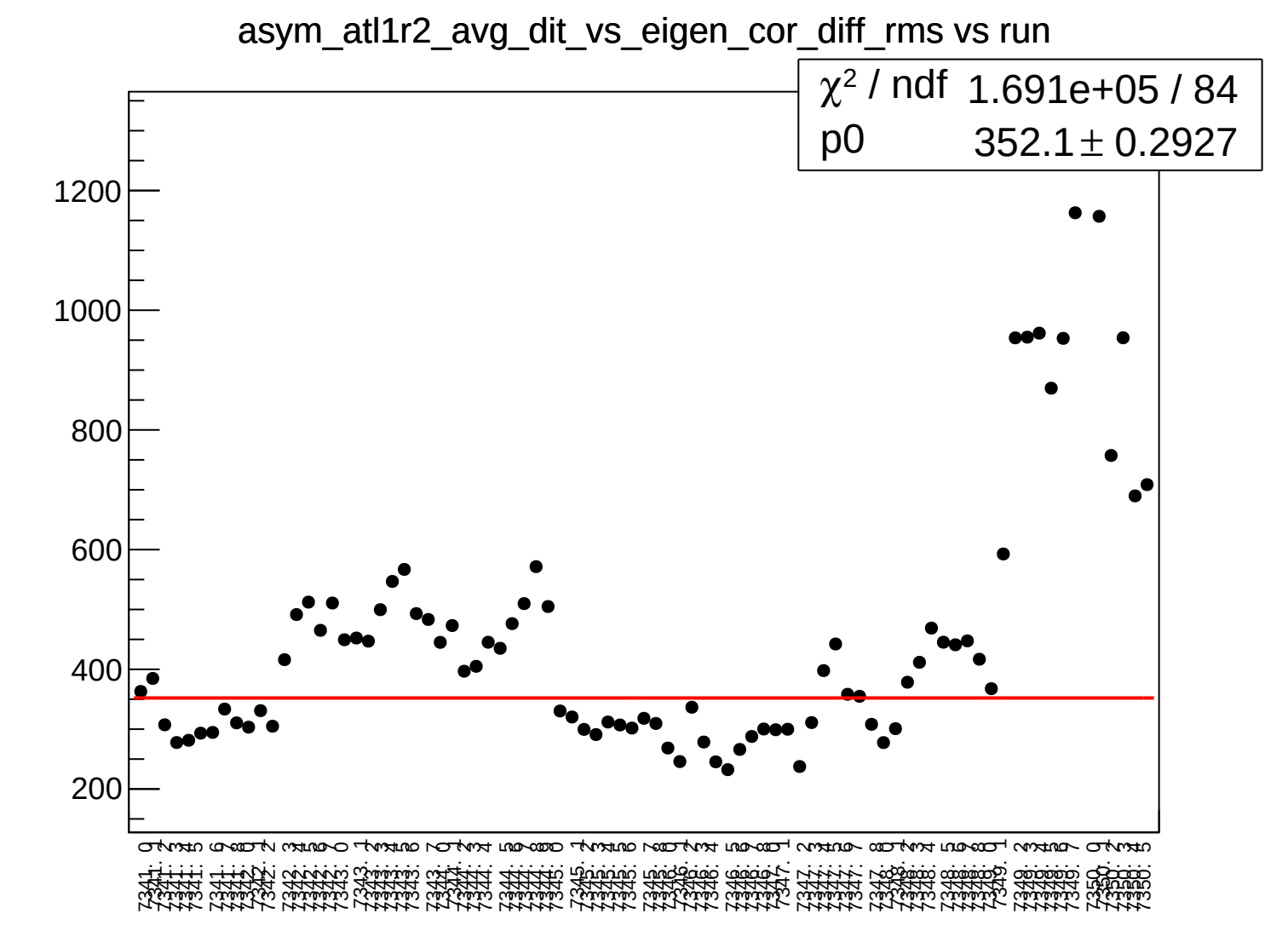

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.12 / 84
p0 −5.322e−13 ± 2.561e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean −84.02
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.04318
Std Dev 0.9699
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

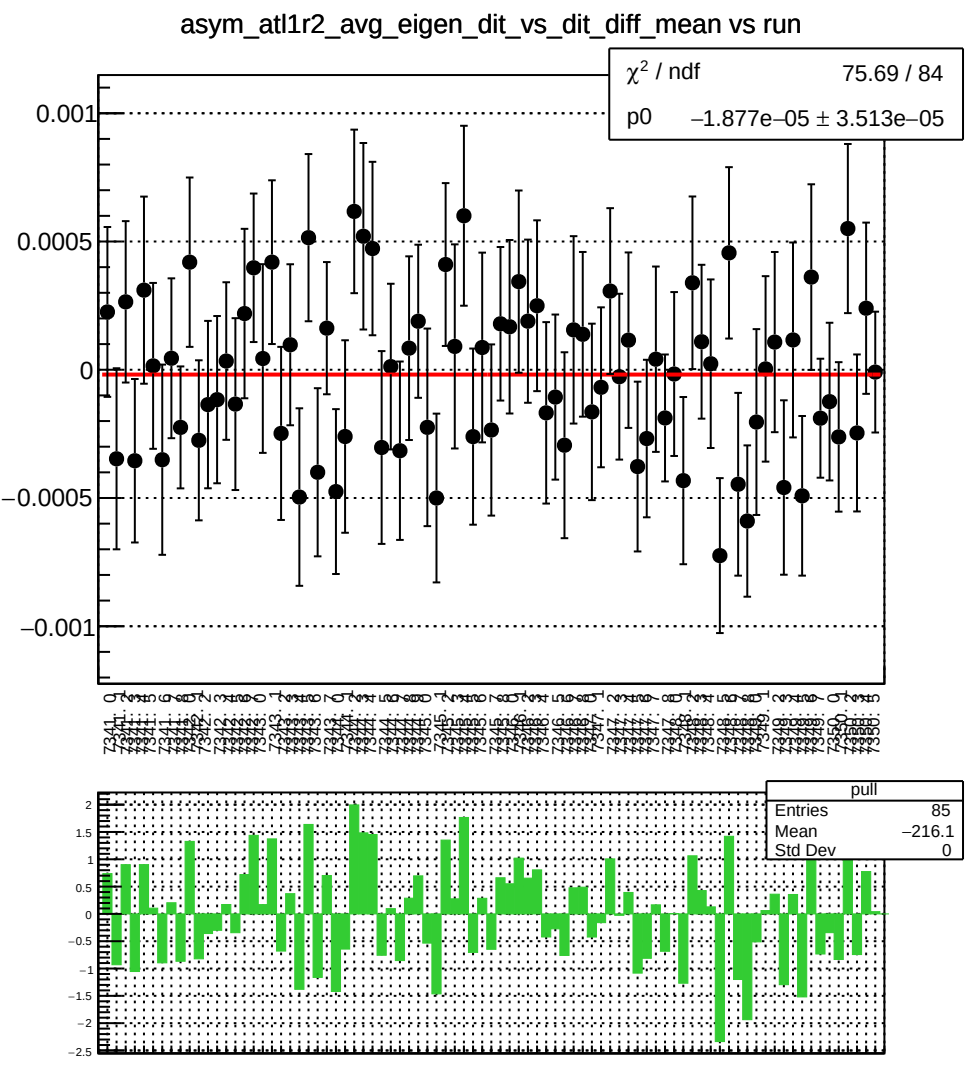

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.23e+06 / 84
p0 1.126e−10 ± 1.811e−13
1.2
1
0.8
0.6
0.4
0.2
0

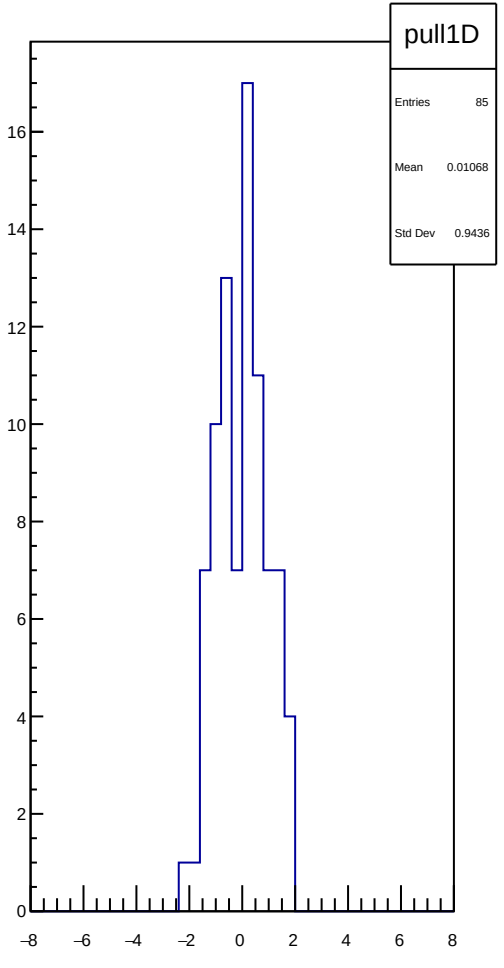

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.7 / 84
p0 0.2168 ± 0.4139
pull
Entries 85
Mean −11.1
Std Dev 0
pull1D
Entries 85
Mean 0.0311
Std Dev 0.9739

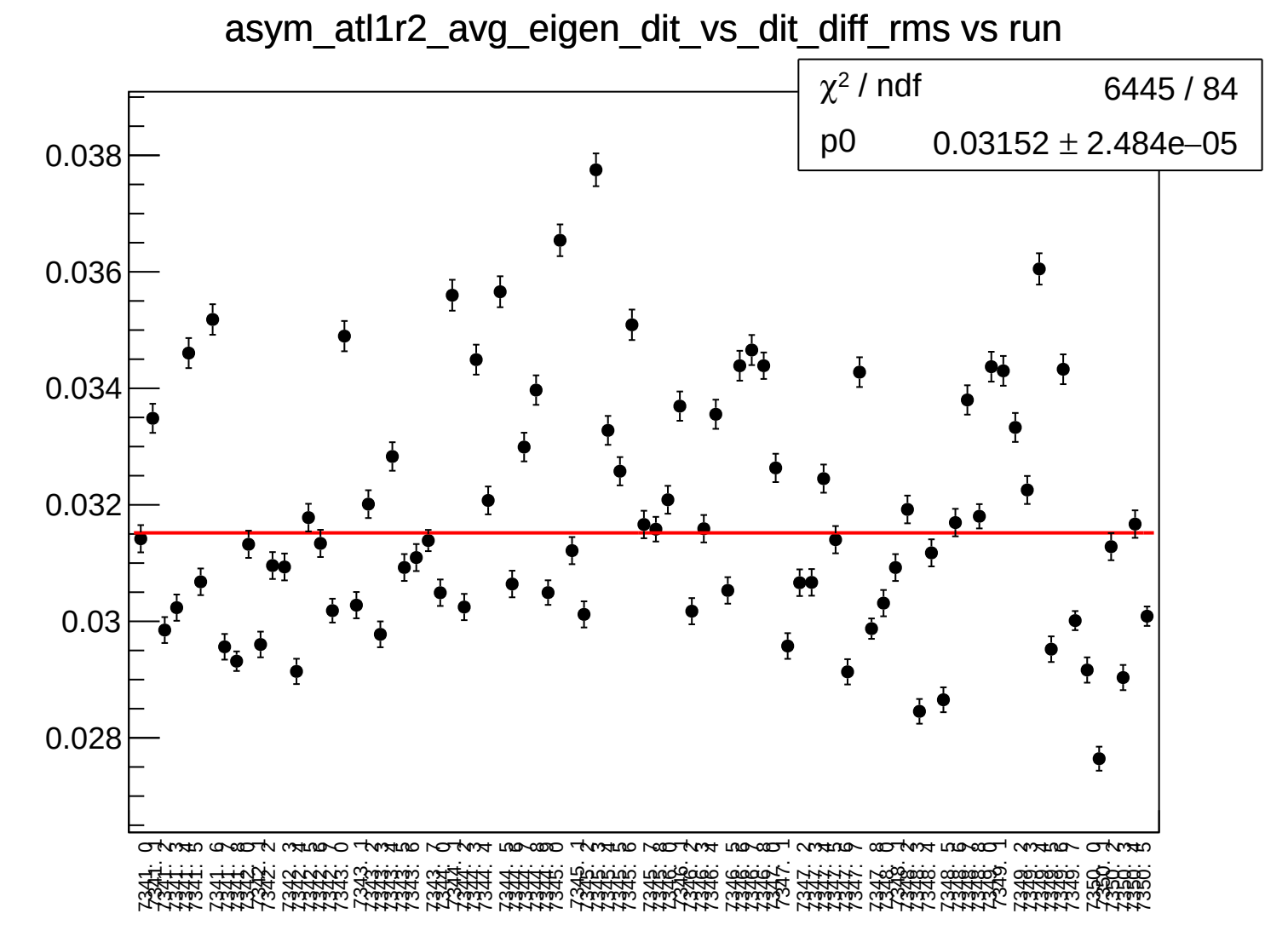

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.691e+05 / 84
p0 352.1 ± 0.2927
1200
1000
800
600
400
200

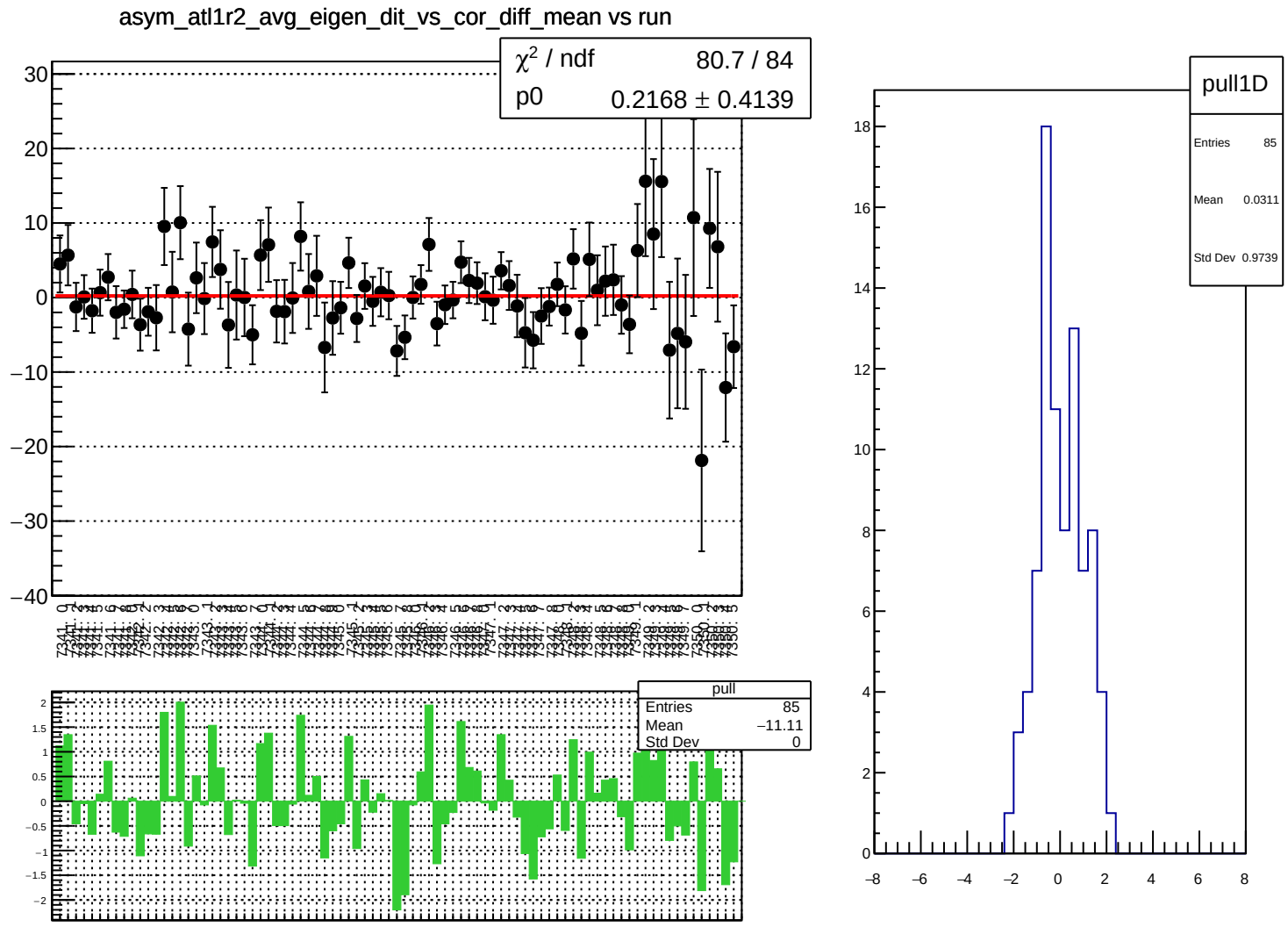

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.7 / 84
p0 0.2168 ± 0.4139
pull
Entries 85
Mean −11.1
Std Dev 0
pull1D
Entries 85
Mean 0.0311
Std Dev 0.9739

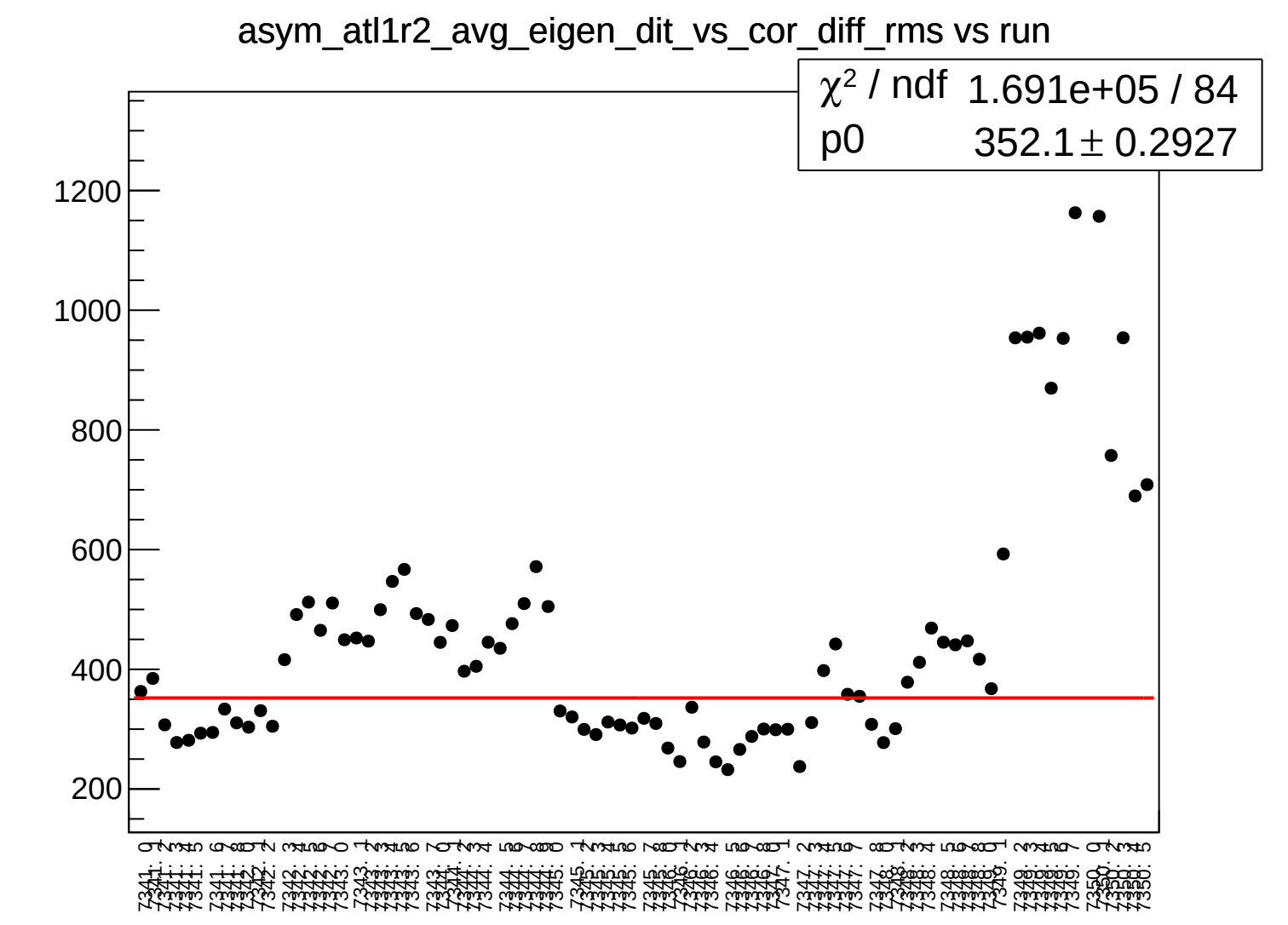

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.691e+05 / 84
p0 352.1 ± 0.2927
1200
1000
800
600
400
200

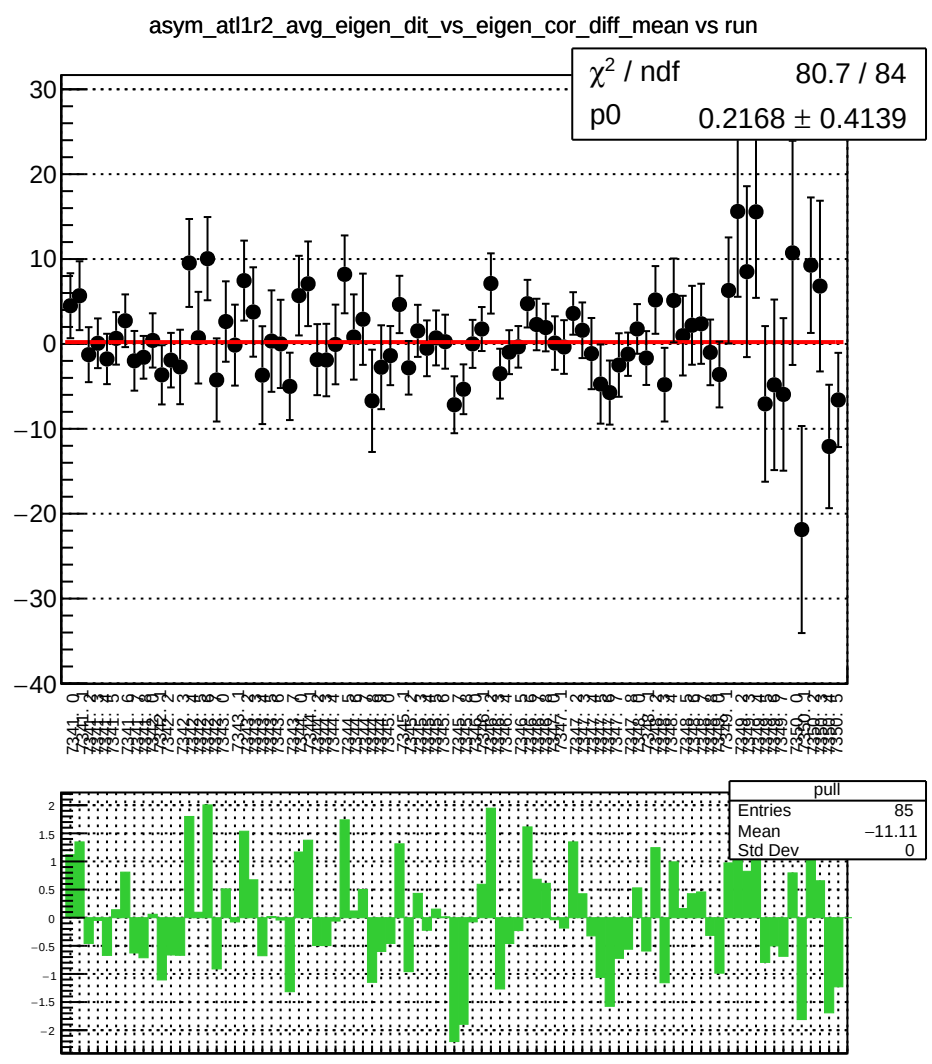

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.69 / 84
p0 −1.877e−05 ± 3.513e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean −216.1
Std Dev 0

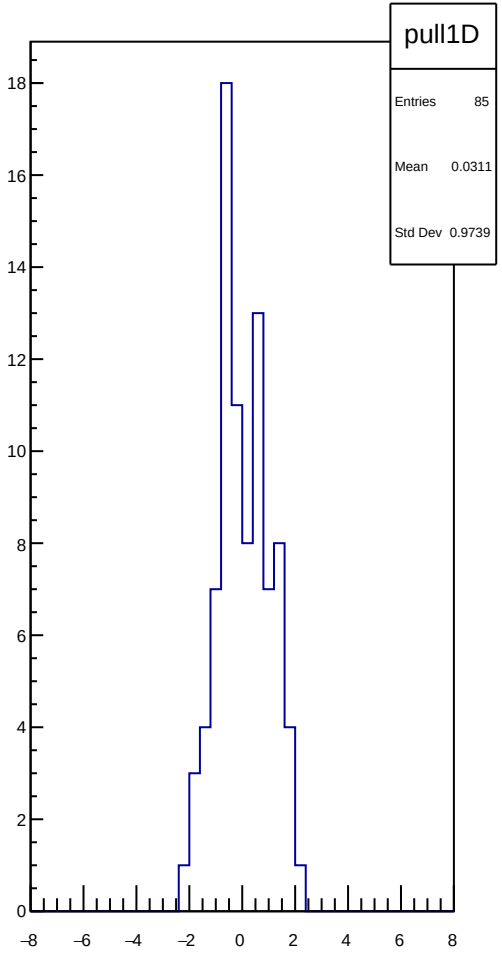

pull1D
Entries 85
Mean 0.01068
Std Dev 0.9436

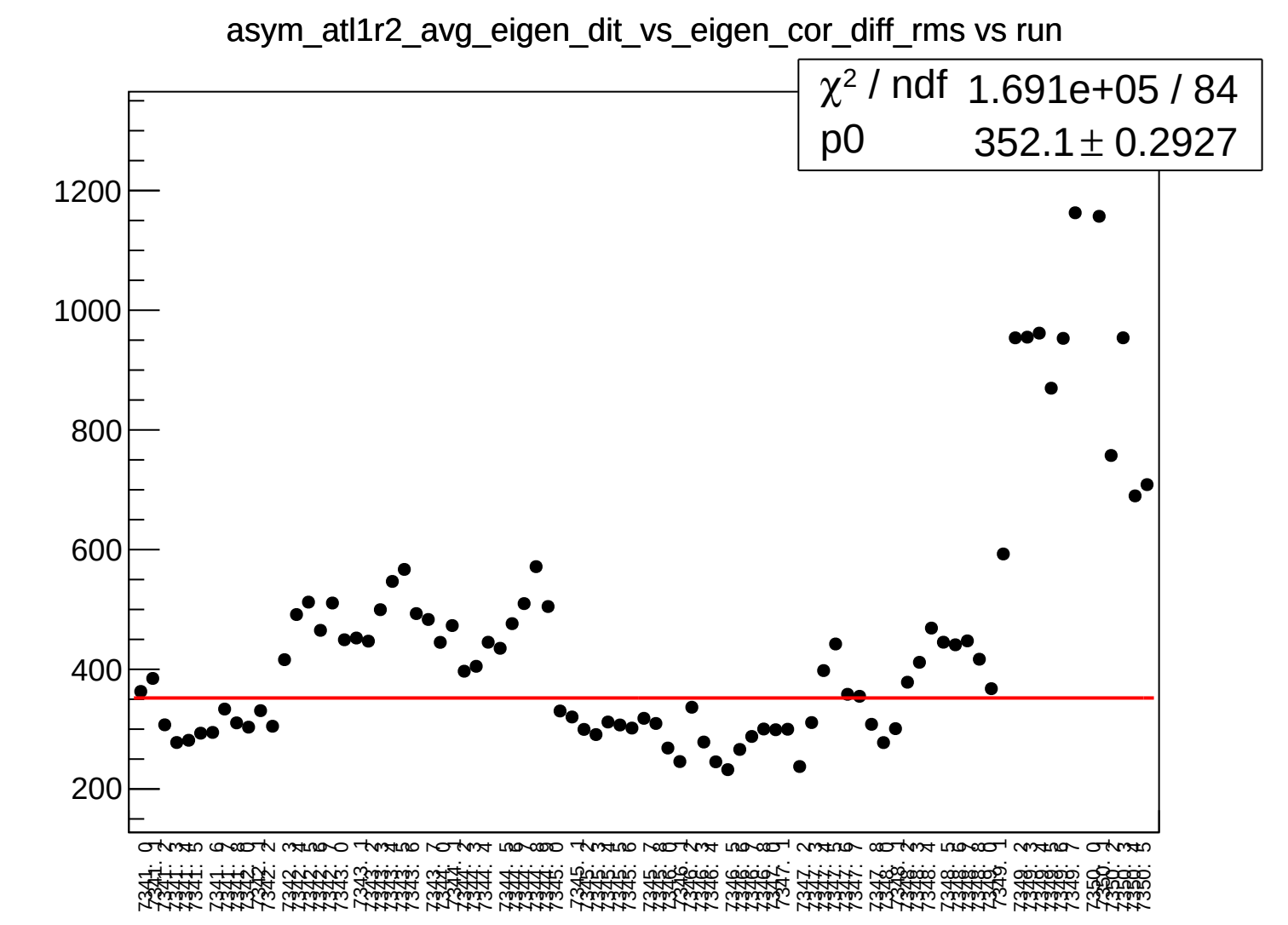

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6445 / 84
p0 0.03152 ± 2.484e–05
0.038
0.036
0.034
0.032
0.03
0.028

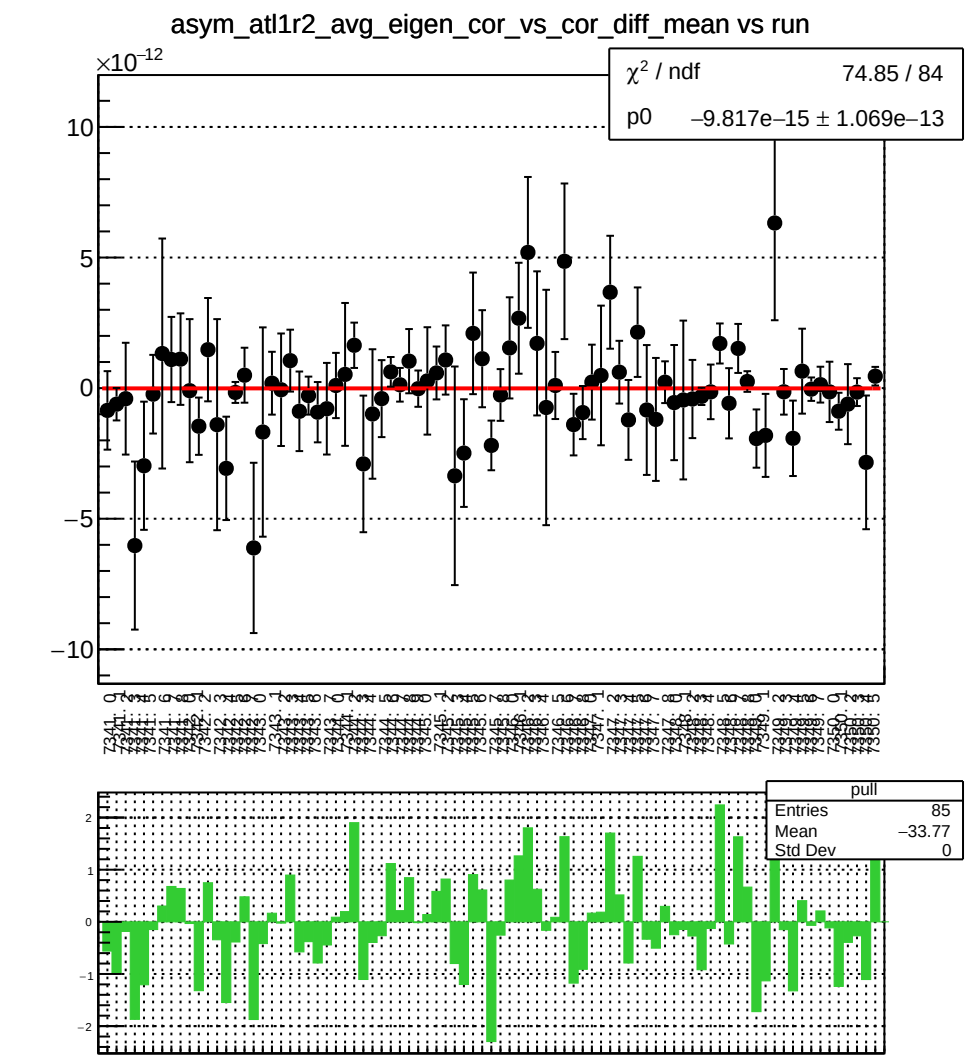

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.7 / 84
p0 0.2168 ± 0.4139
pull
Entries 85
Mean −11.11
Std Dev 0
pull1D
Entries 85
Mean 0.0311
Std Dev 0.9739

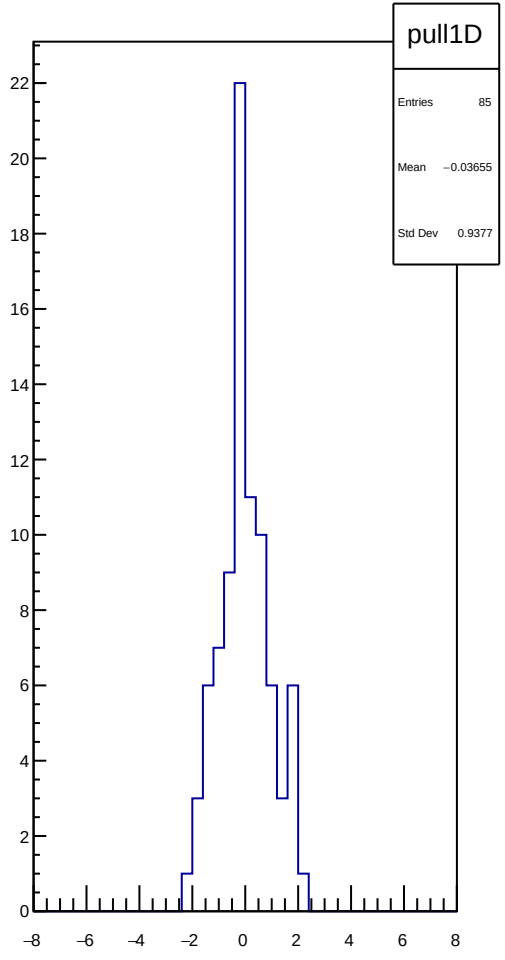

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.691e+05 / 84
p0 352.1 ± 0.2927
1200
1000
800
600
400
200

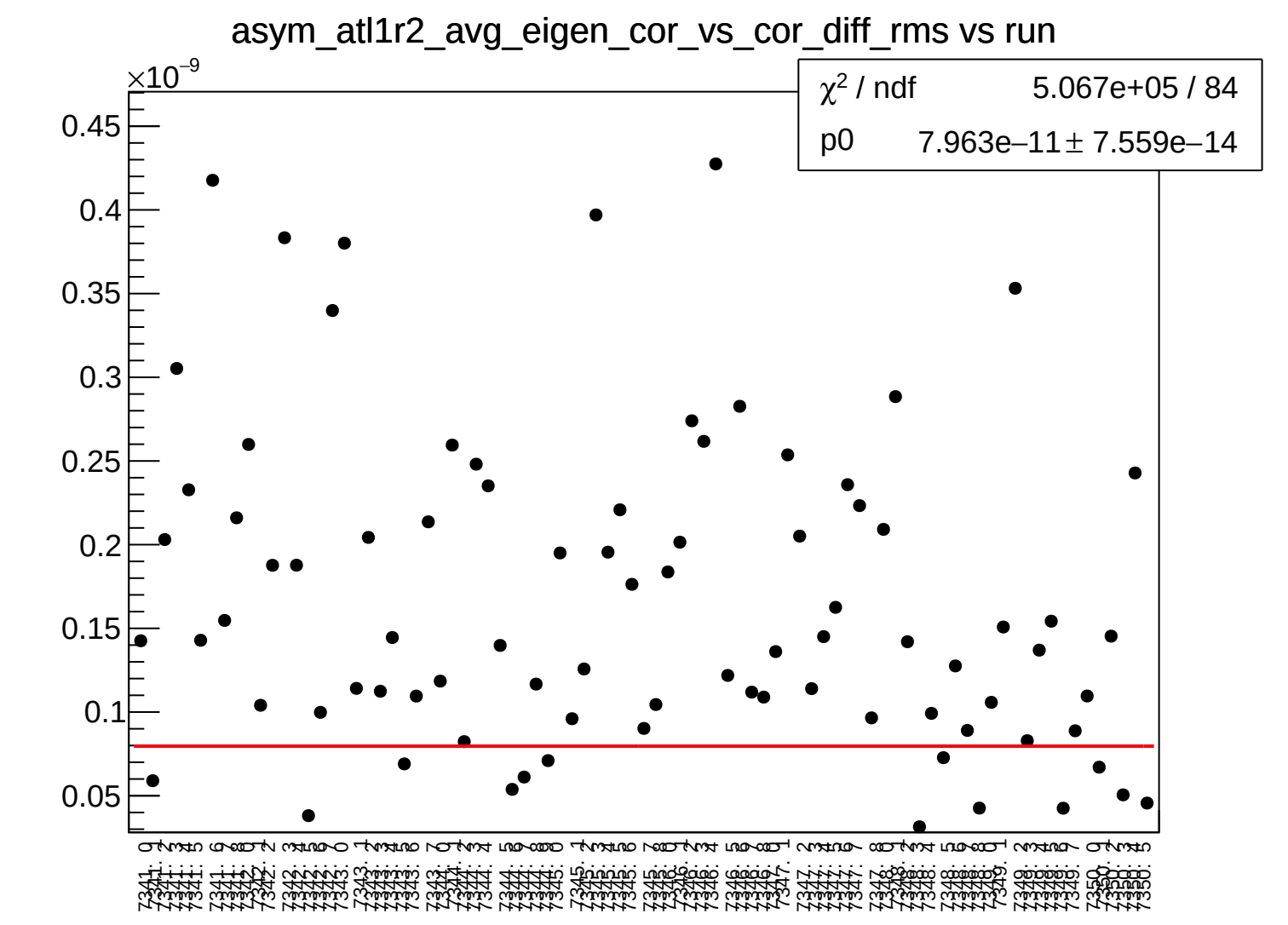

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.7 / 84
p0 0.2168 ± 0.4139
pull
Entries 85
Mean −11.11
Std Dev 0

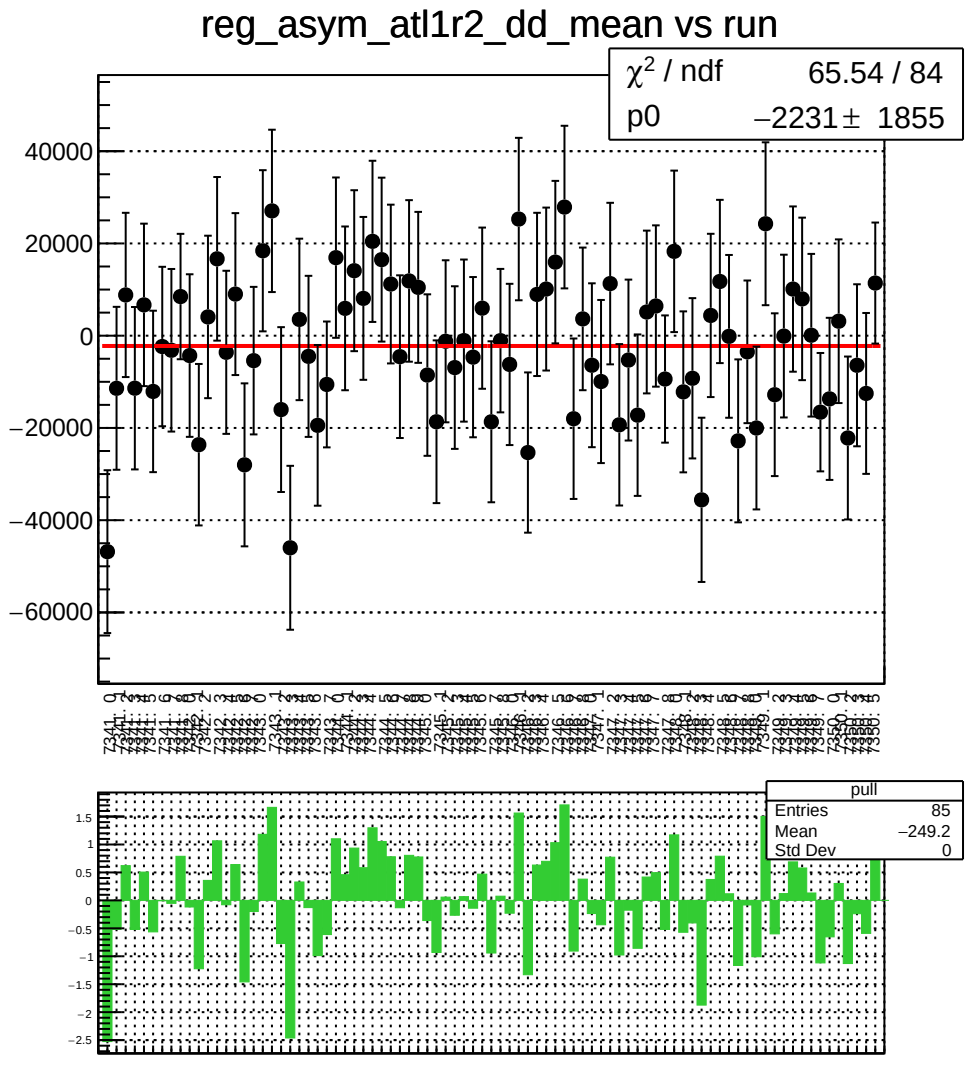

pull1D
Entries 85
Mean 0.0311
Std Dev 0.9739

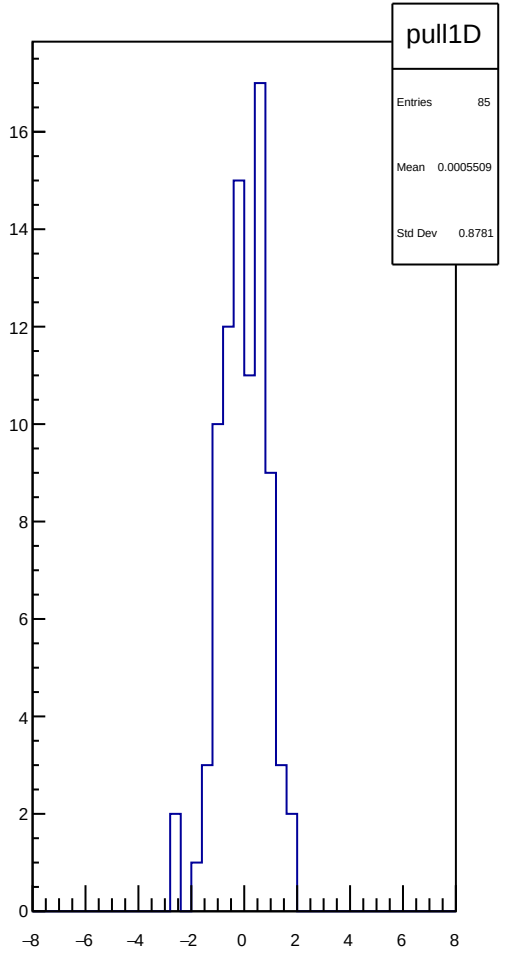

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.691e+05 / 84
p0 352.1 ± 0.2927
1200
1000
800
600
400
200

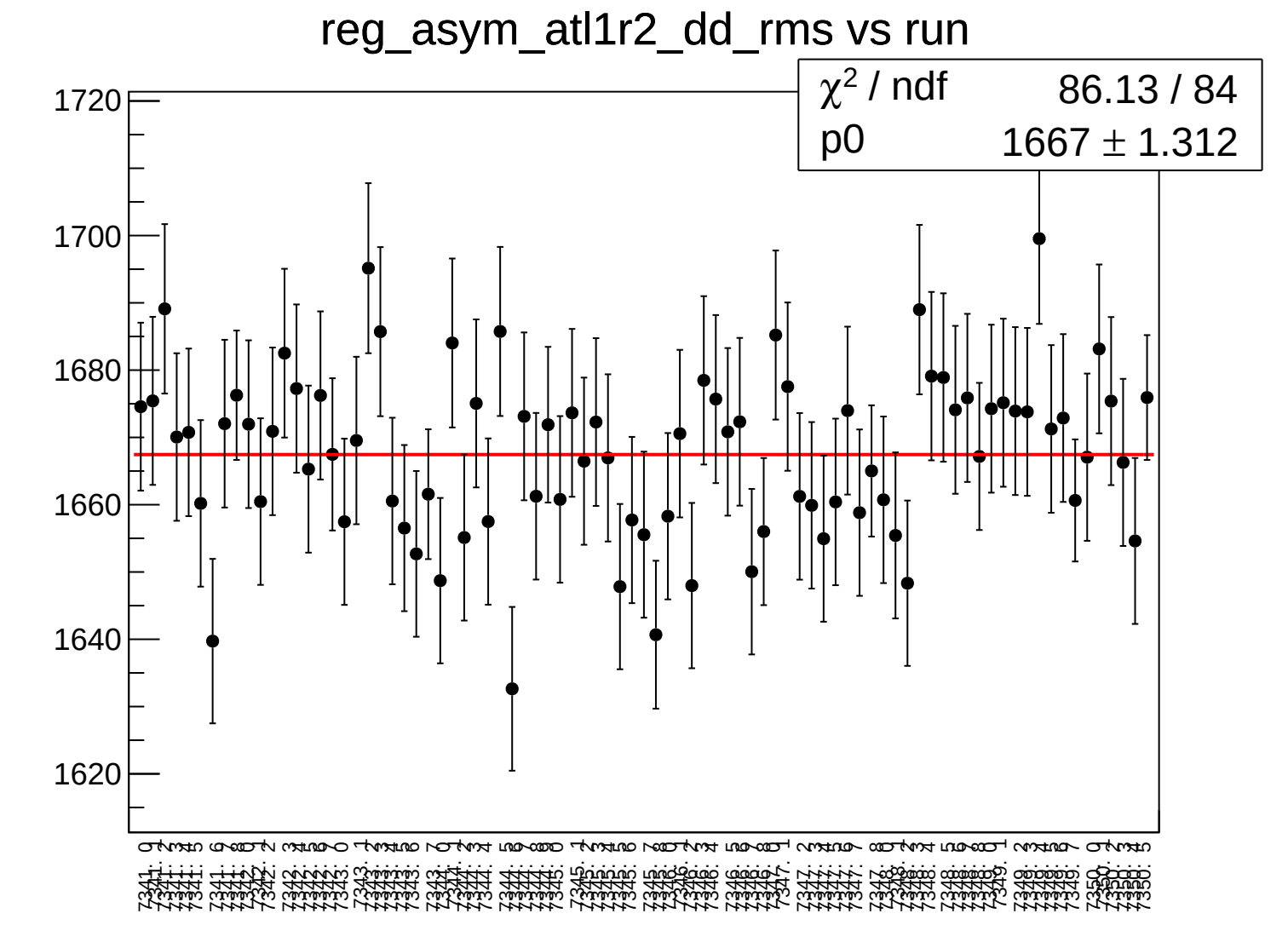

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.85 / 84
p0 −9.817e−15 ± 1.069e−13
pull
Entries 85
Mean −33.77
Std Dev 0

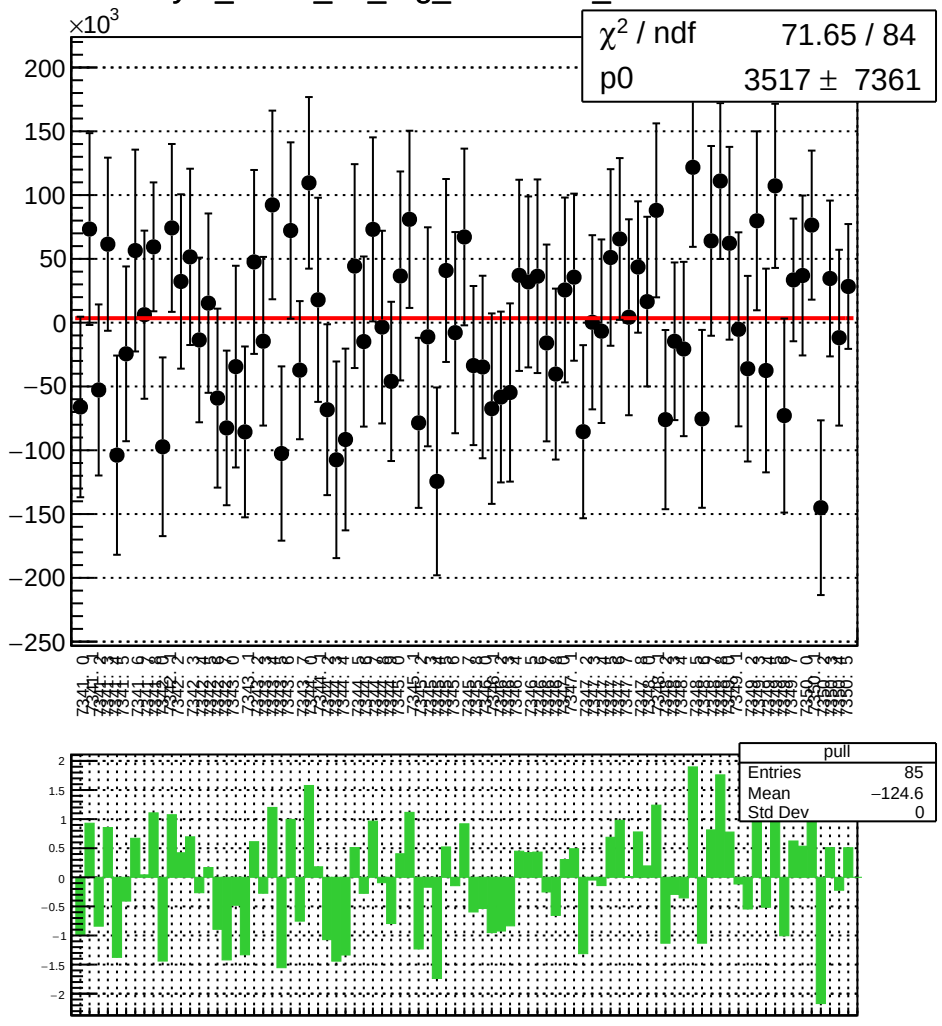

pull1D
Entries 85
Mean −0.03655
Std Dev 0.9377

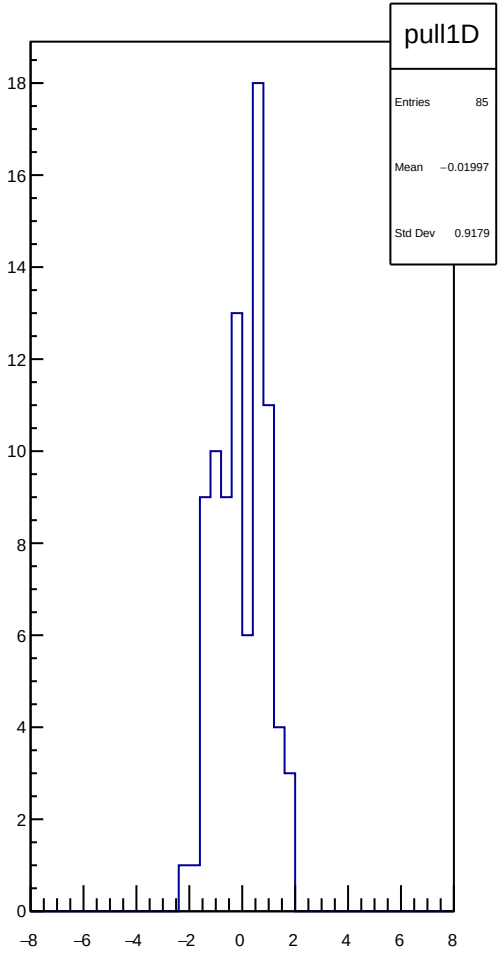

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.067e+05 / 84
p0 7.963e−11 ± 7.559e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

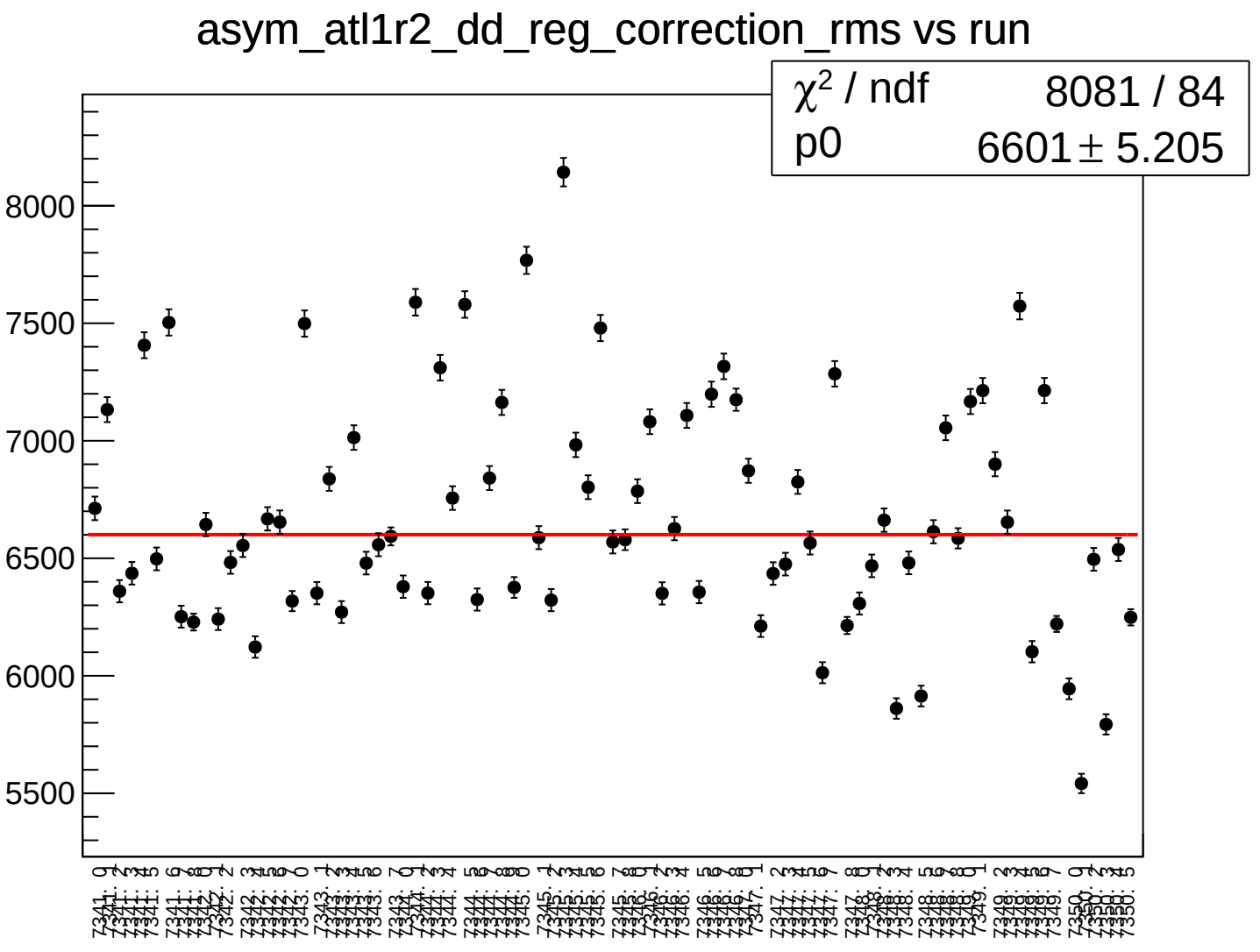

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 65.54 / 84
p0 −2231 ± 1855
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −249.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

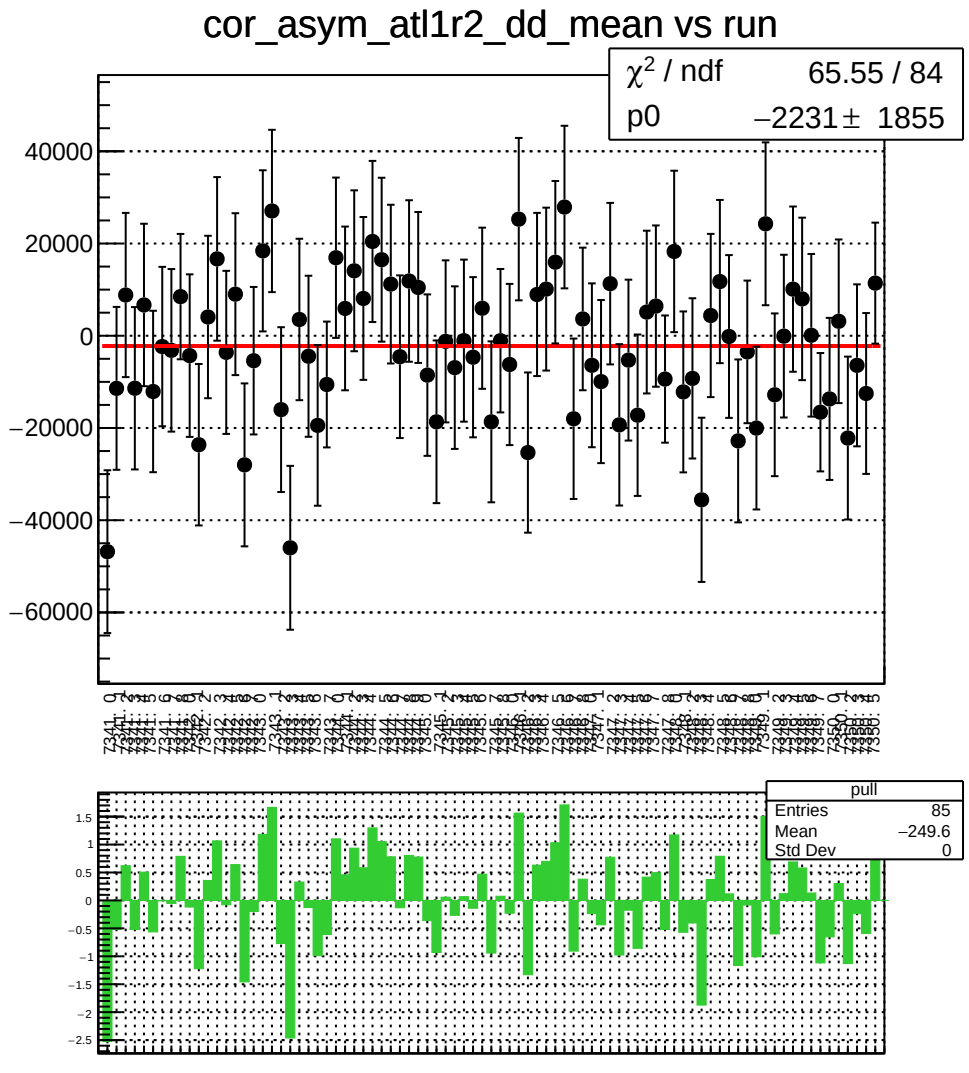

pull1D
Entries 85
Mean 0.0005509
Std Dev 0.8781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

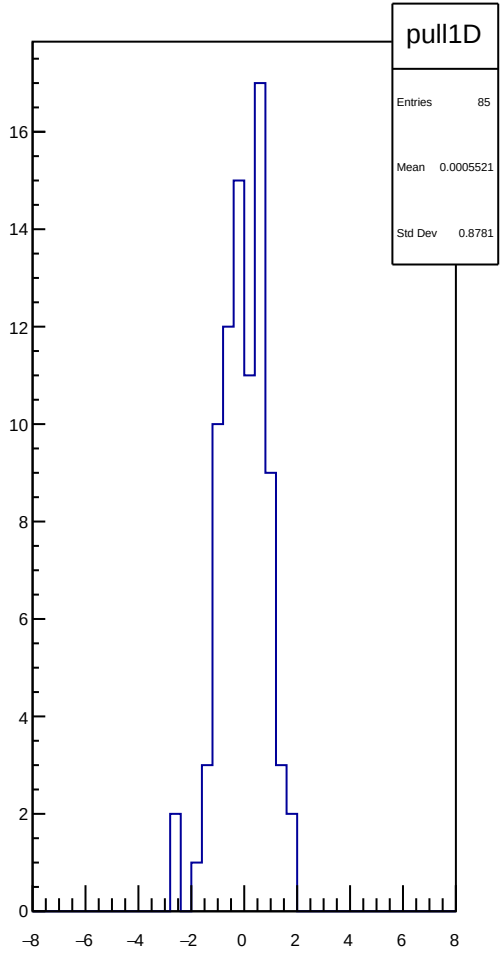

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 86.13 / 84
p0 1667 ± 1.312
1720
1700
1680
1660
1640
1620

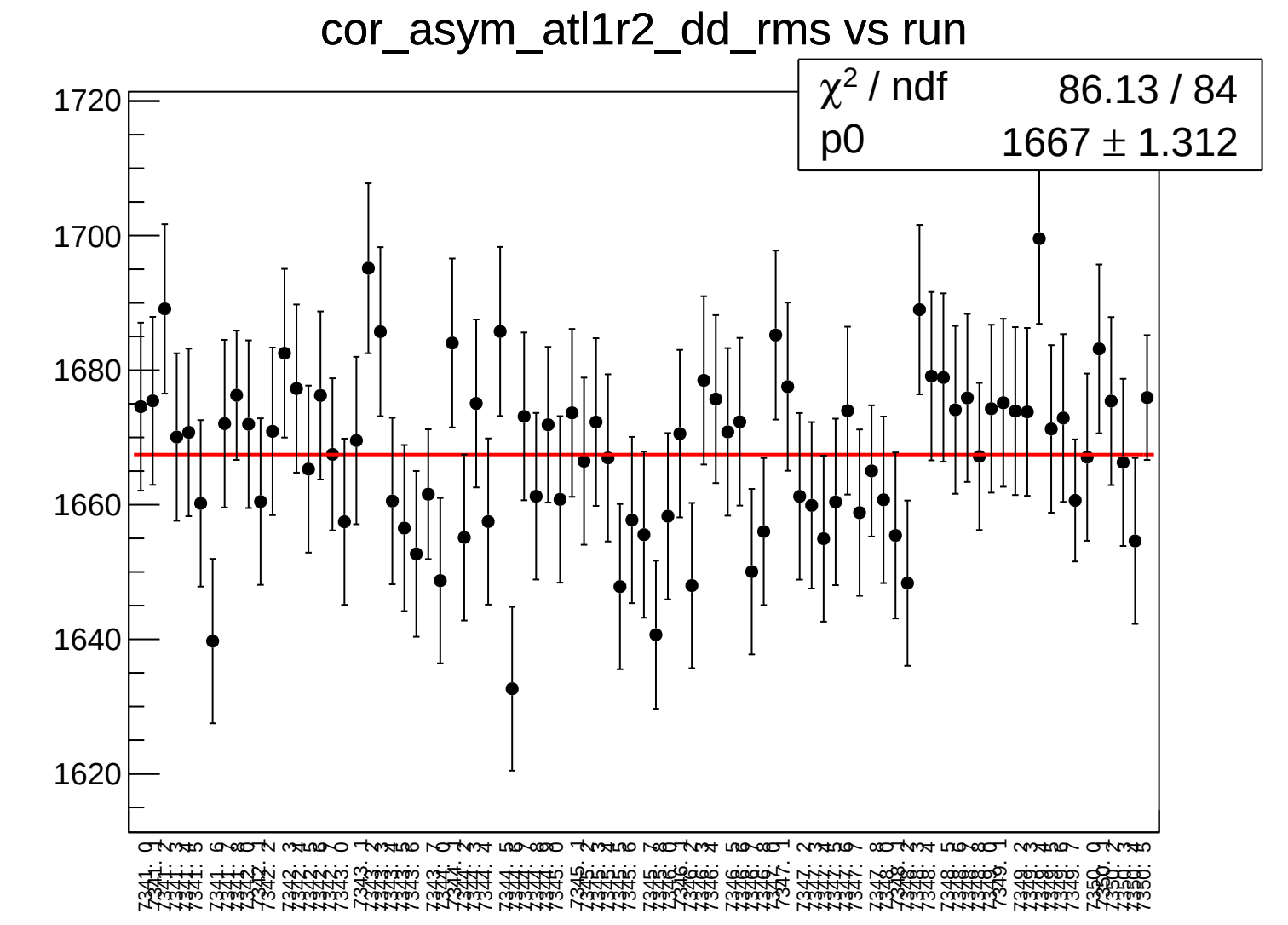

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 71.65 / 84
p0 3517 ± 7361
pull
Entries 85
Mean −124.6
Std Dev 0

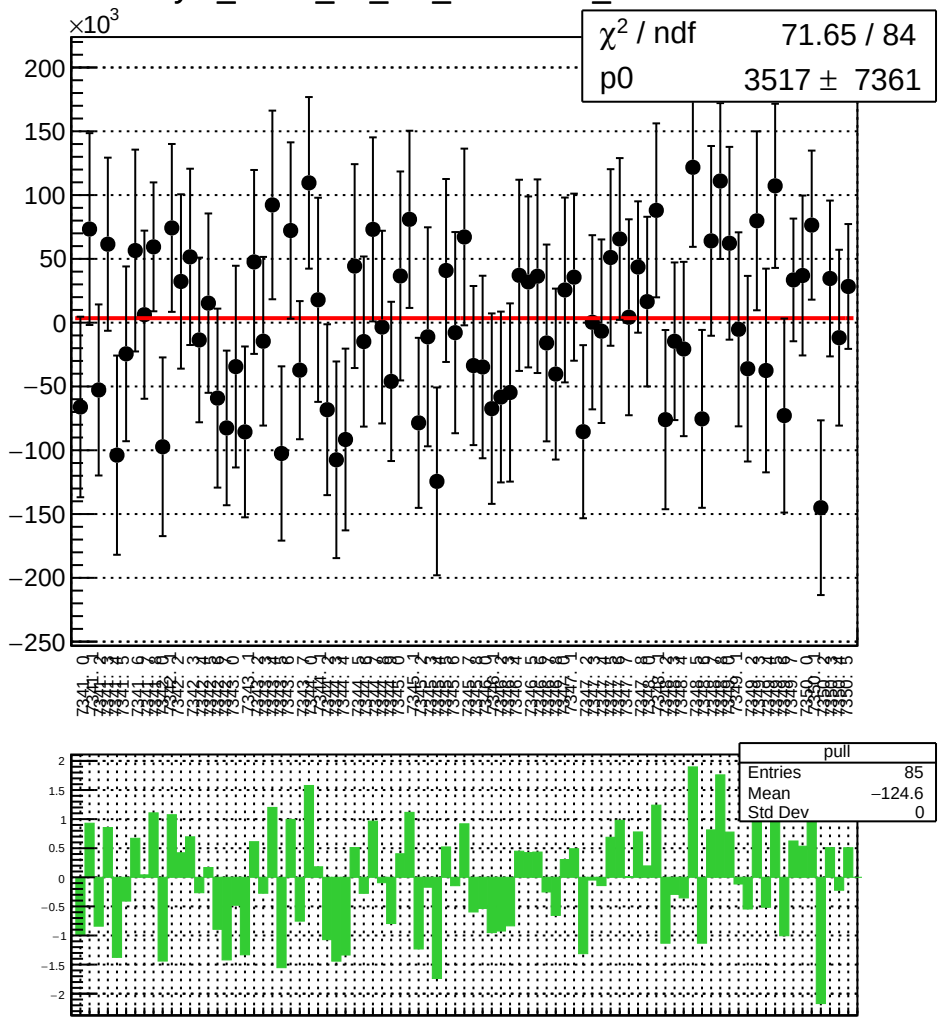

pull1D
Entries 85
Mean −0.01997
Std Dev 0.9179

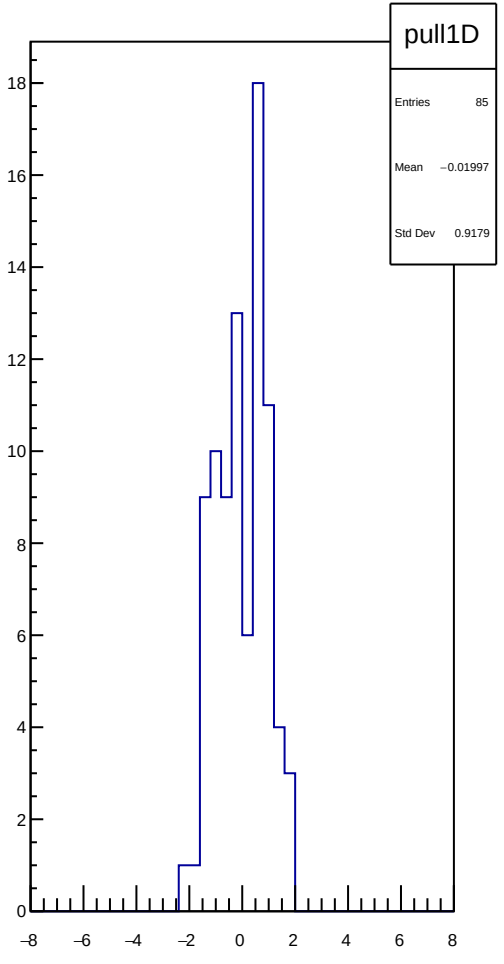

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 8081 / 84
p0 6601 ± 5.205
8000
7500
7000
6500
6000
5500

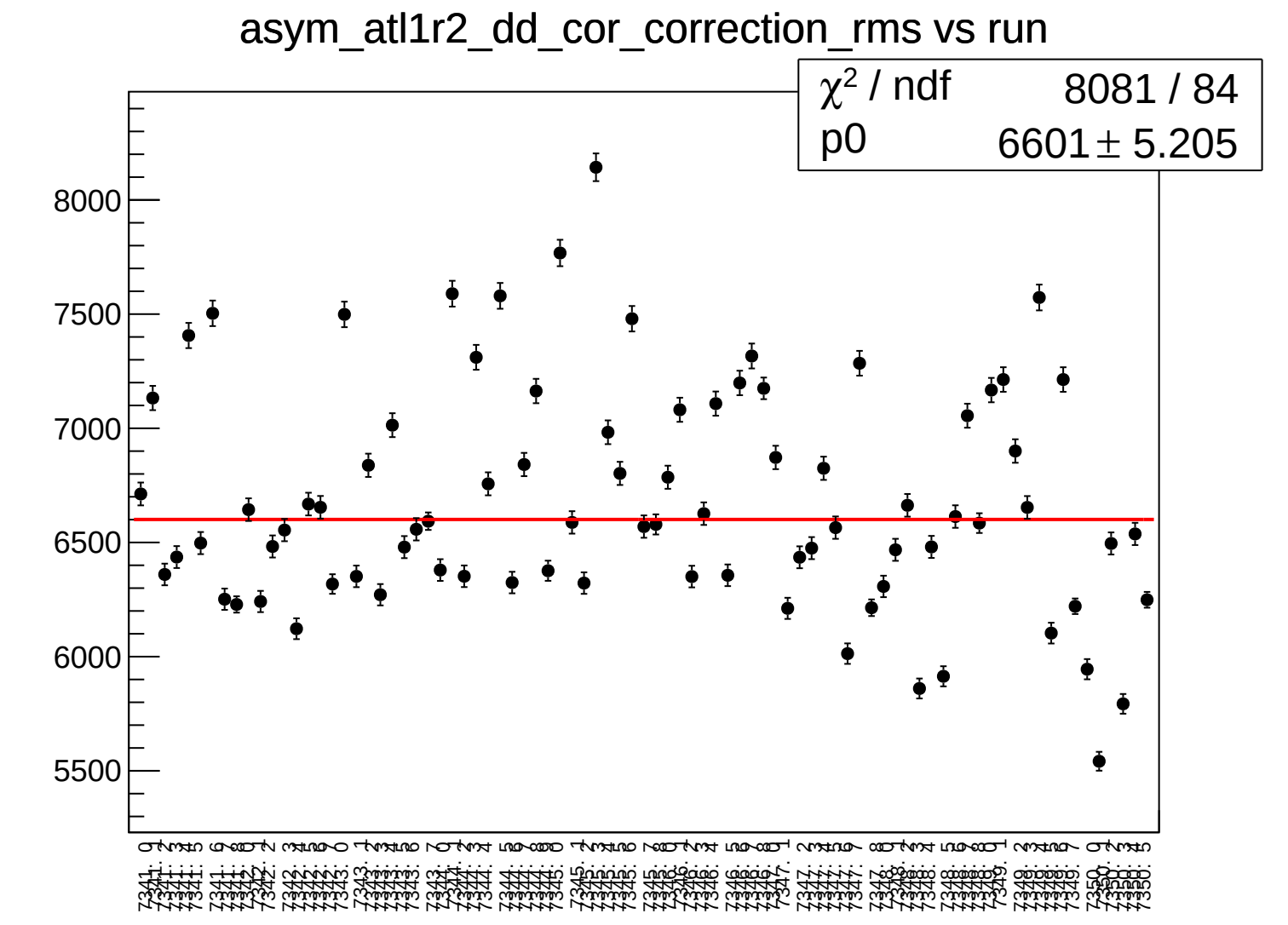

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 65.55 / 84
p0 −2231 ± 1855
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −249.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

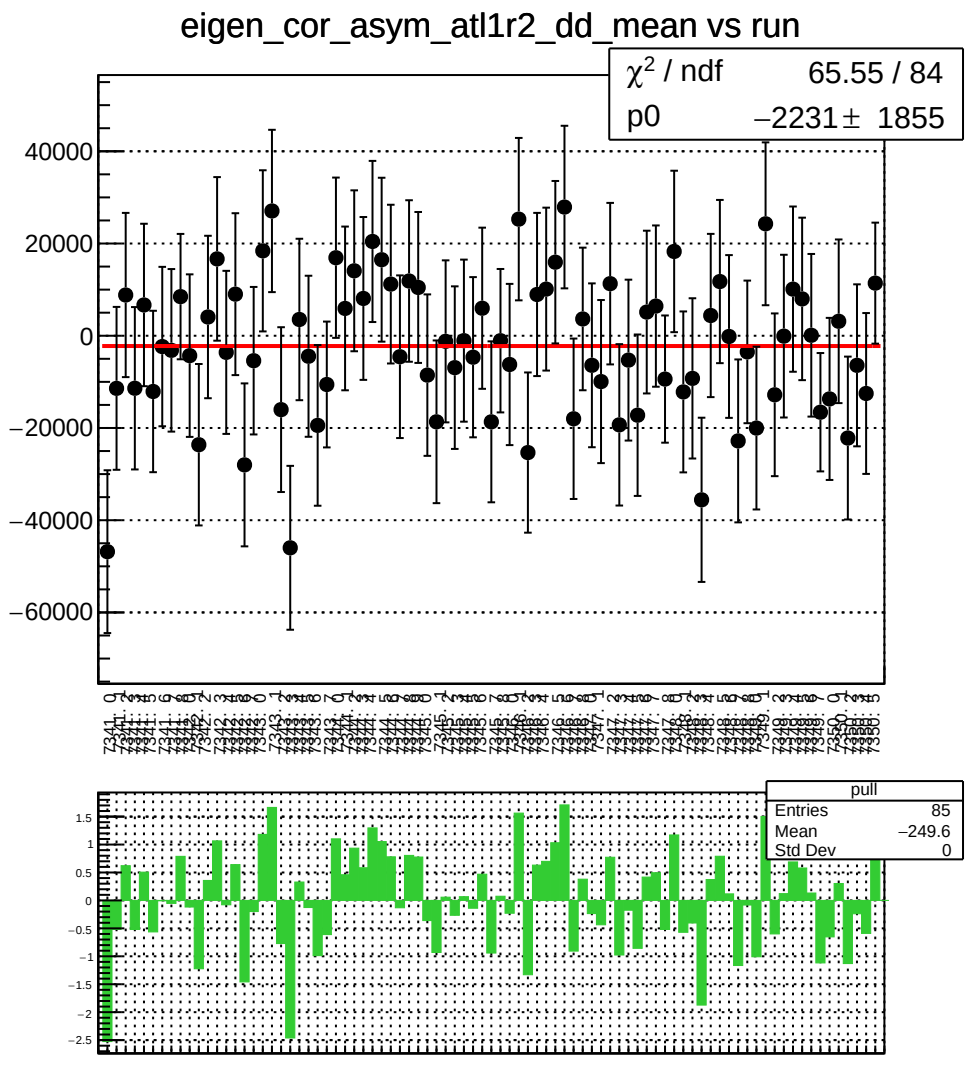

pull1D
Entries 85
Mean 0.0005521
Std Dev 0.8781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

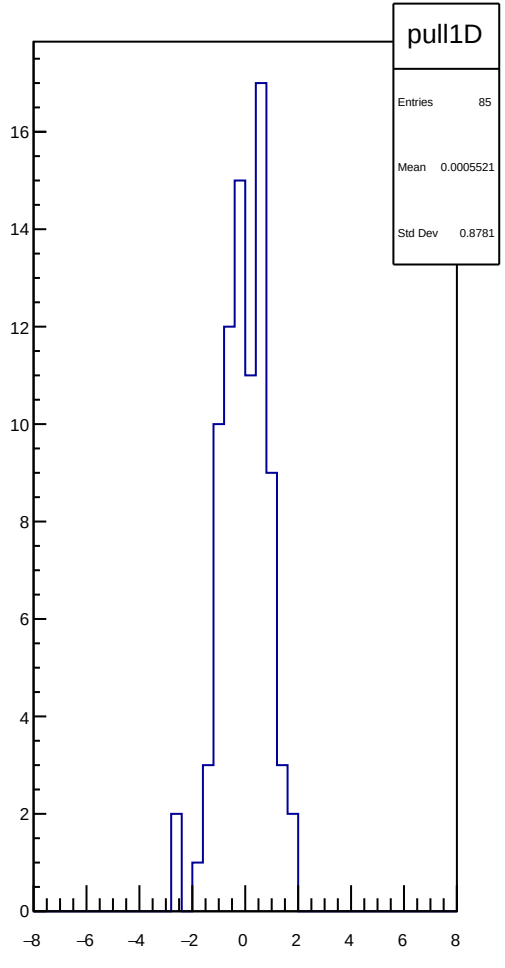

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 86.13 / 84
p0 1667 ± 1.312
1720
1700
1680
1660
1640
1620

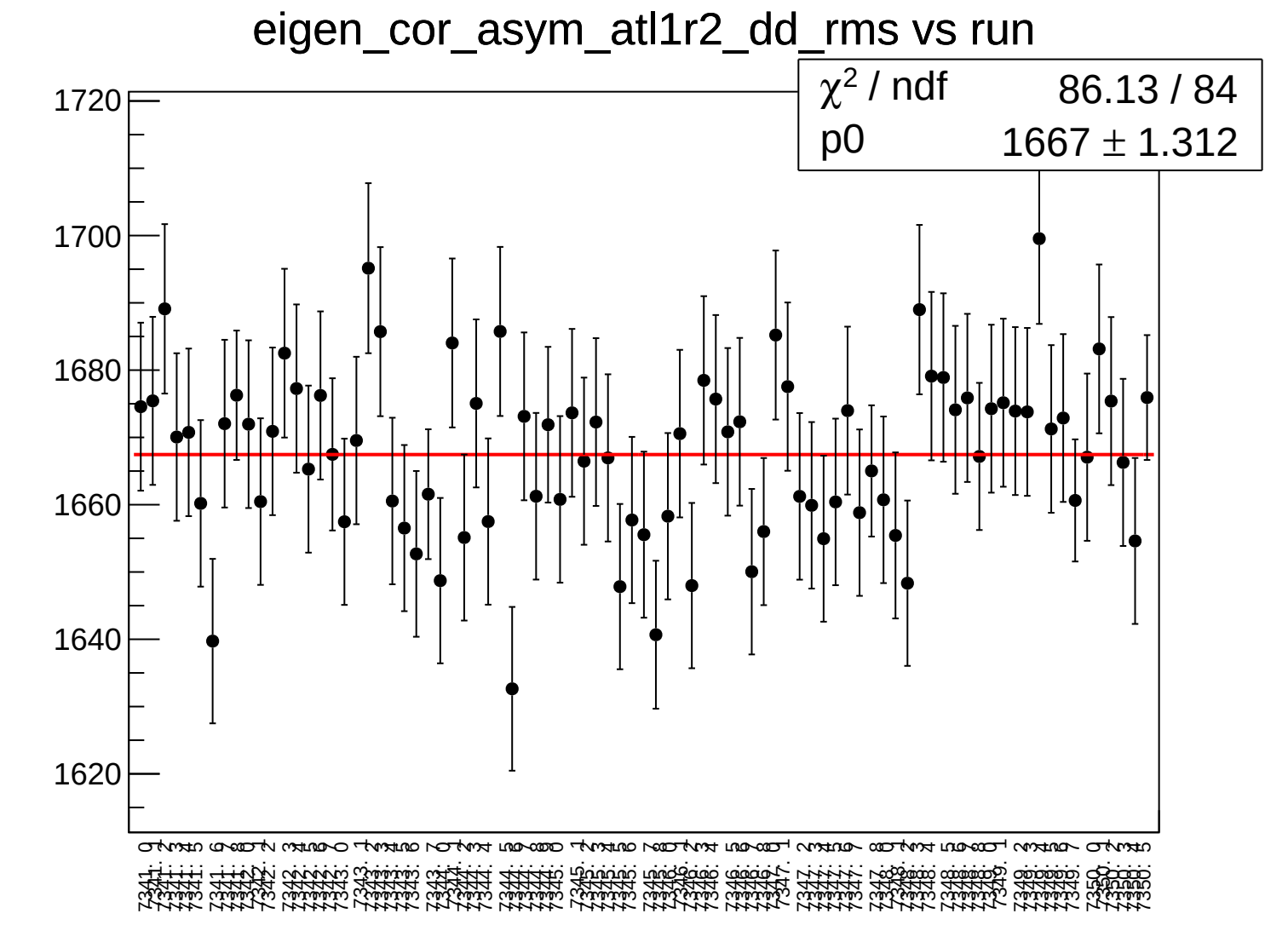

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 71.65 / 84
p0 3517 ± 7361
pull
Entries 85
Mean −124.6
Std Dev 0

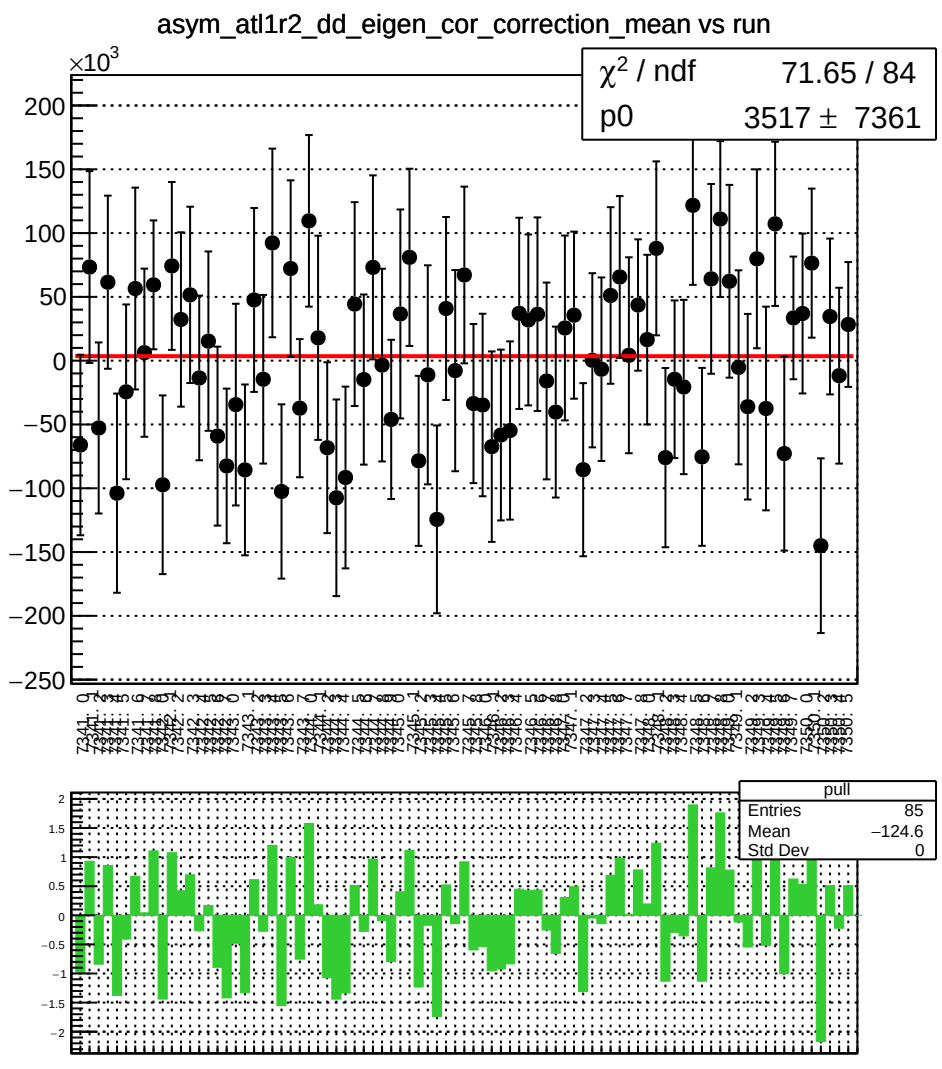

pull1D
Entries 85
Mean −0.01997
Std Dev 0.9179

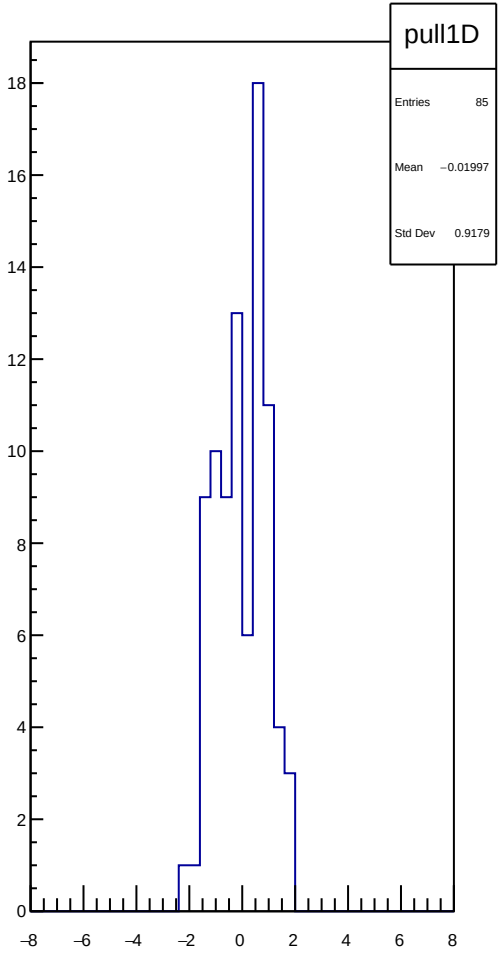

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 8081 / 84
p0 6601 ± 5.205
8000
7500
7000
6500
6000
5500

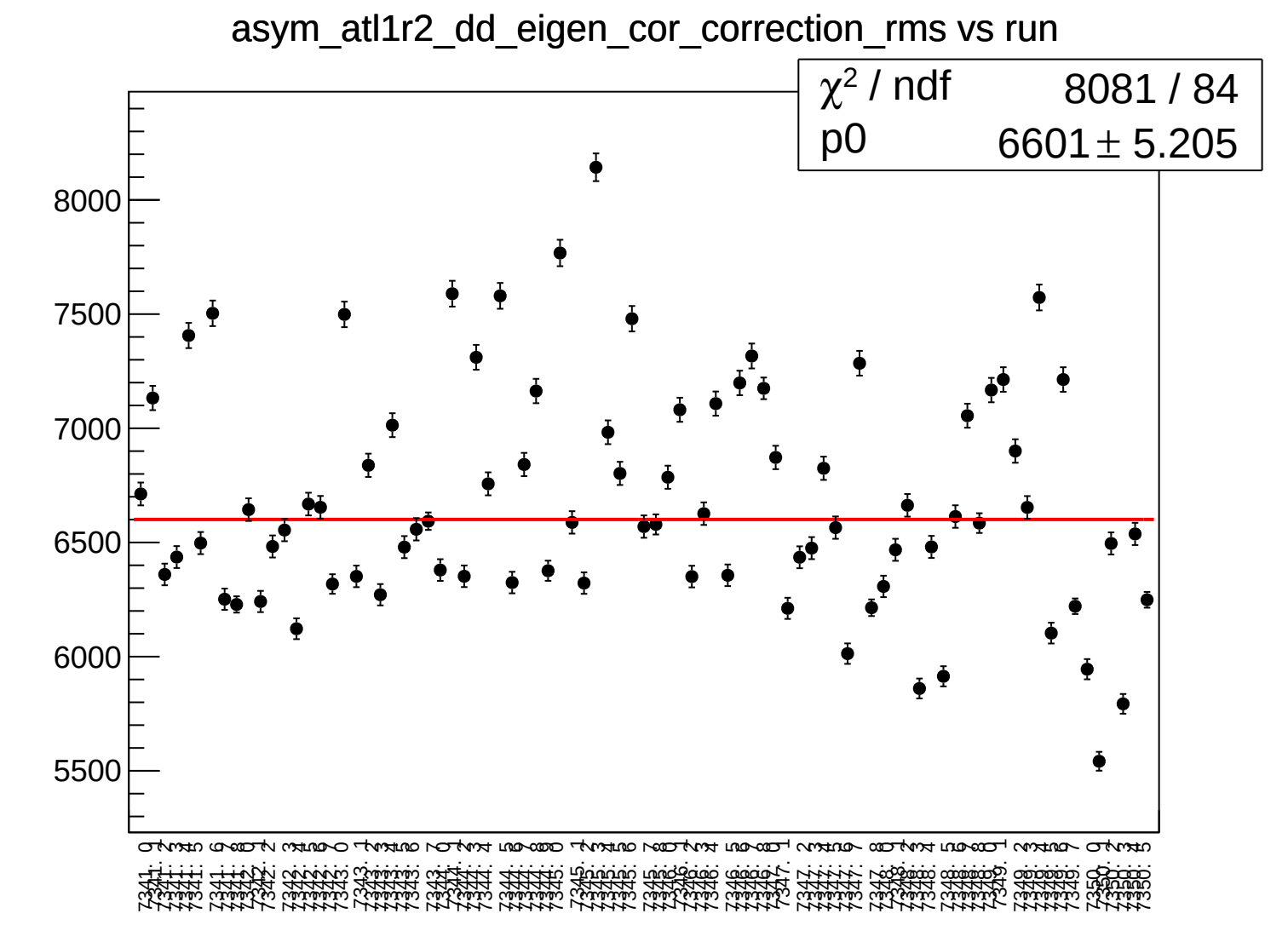

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 65.55 / 84
p0 −2231 ± 1855
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −249.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

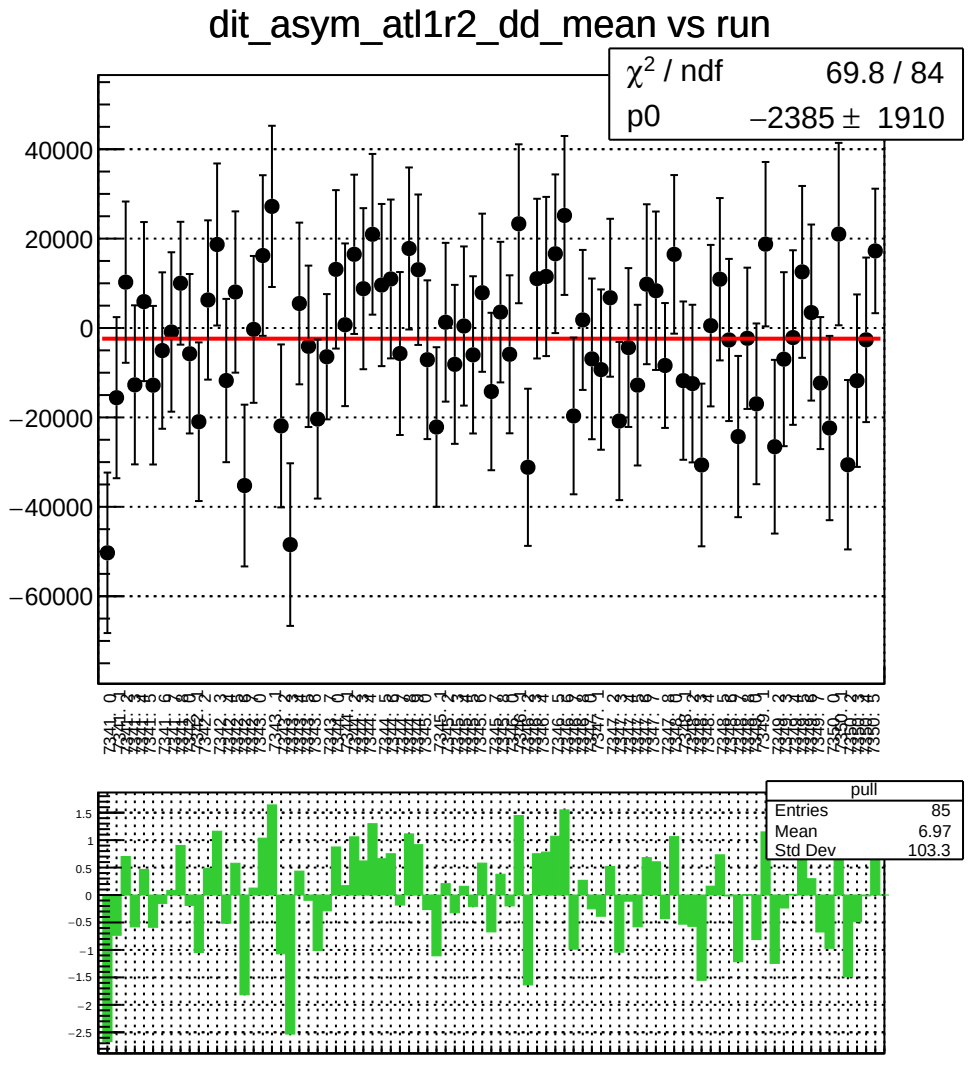

pull1D
Entries 85
Mean 0.0005521
Std Dev 0.8781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

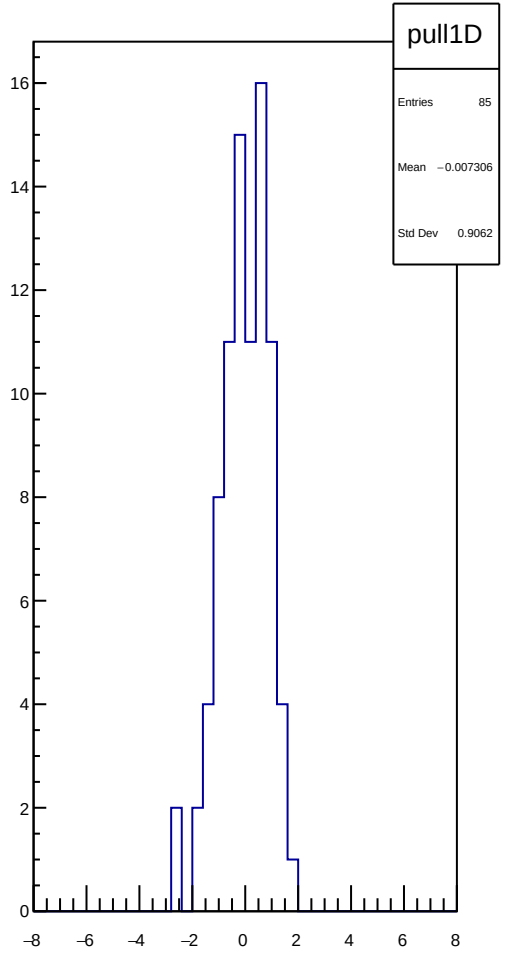

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 86.13 / 84
p0 1667 ± 1.312
1720
1700
1680
1660
1640
1620

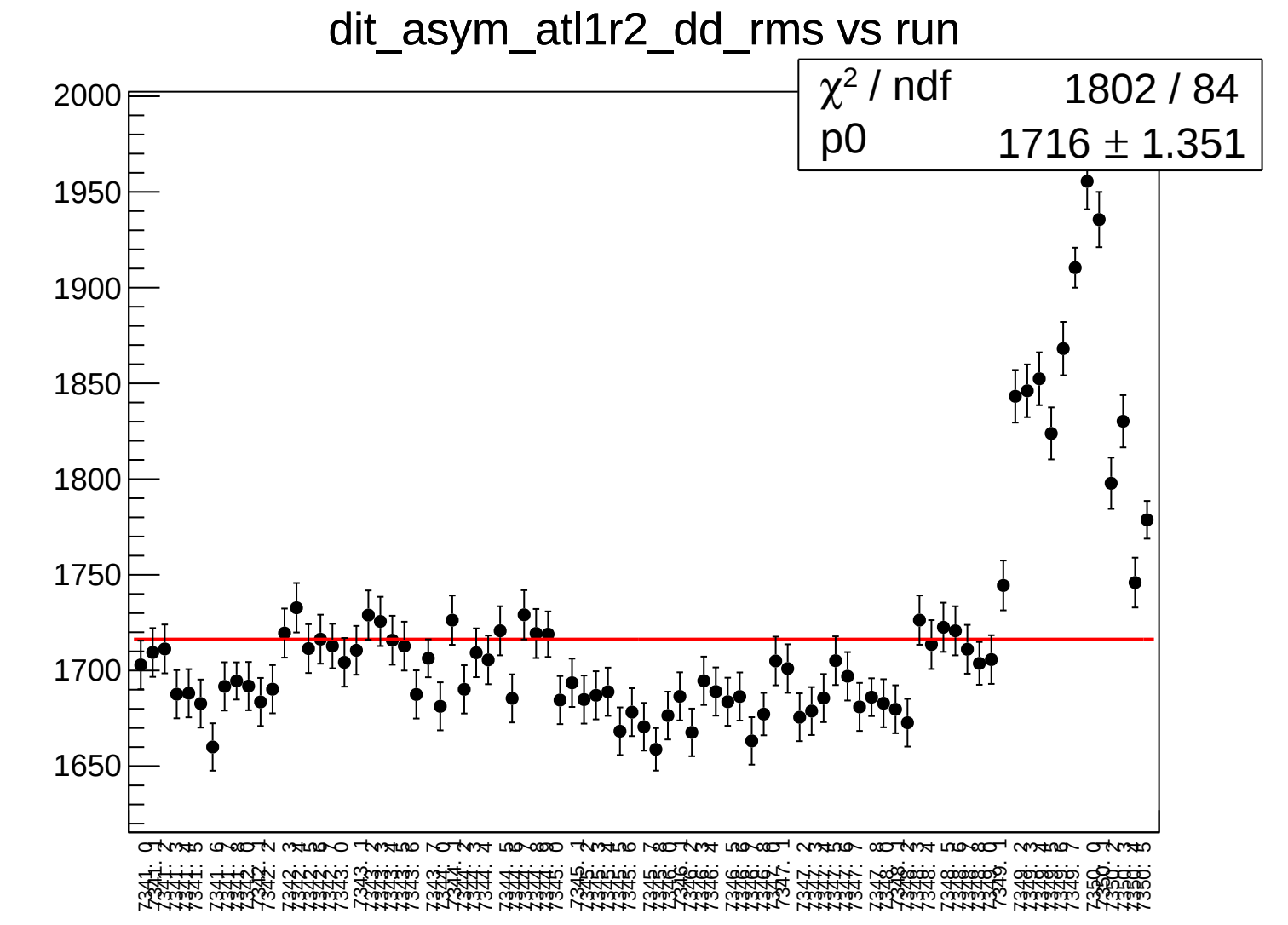

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 71.65 / 84
p0 3517 ± 7361
pull
Entries 85
Mean −124.6
Std Dev 0

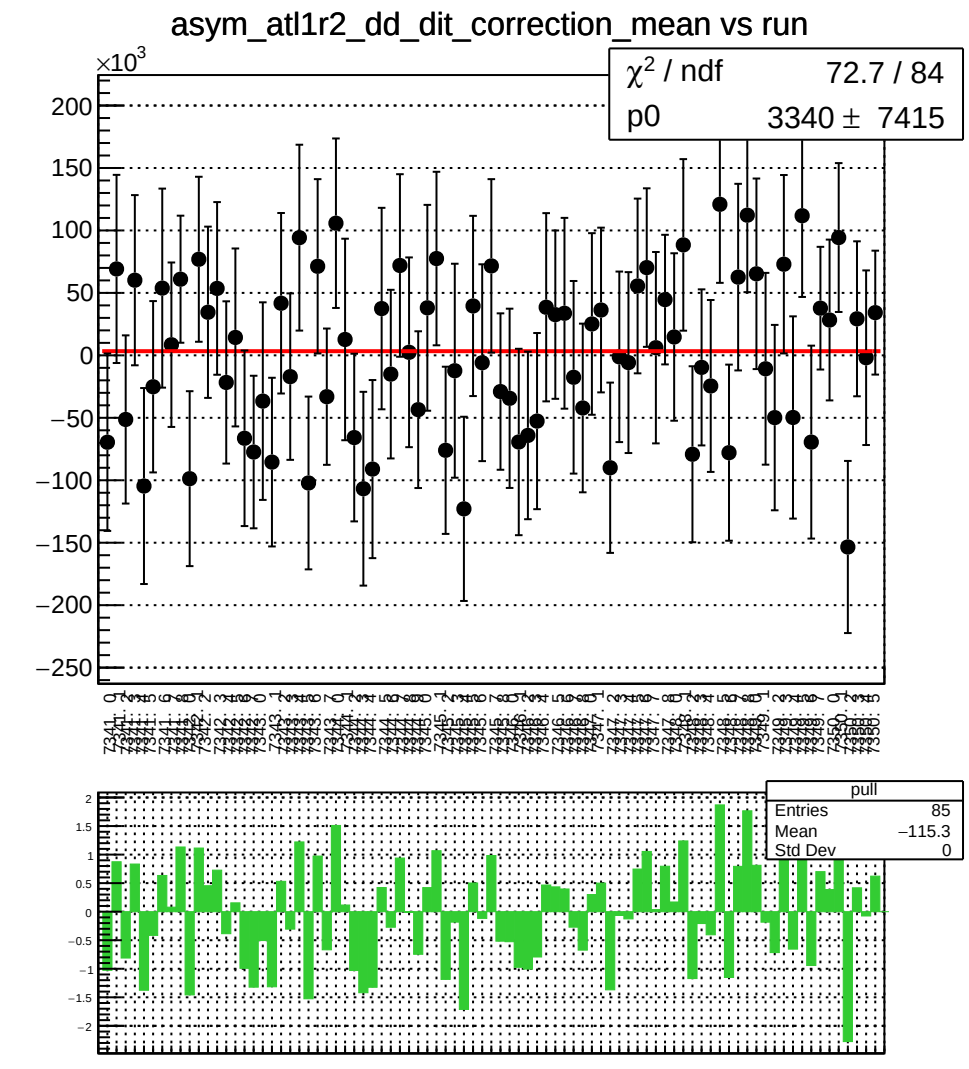

pull1D
Entries 85
Mean −0.01997
Std Dev 0.9179

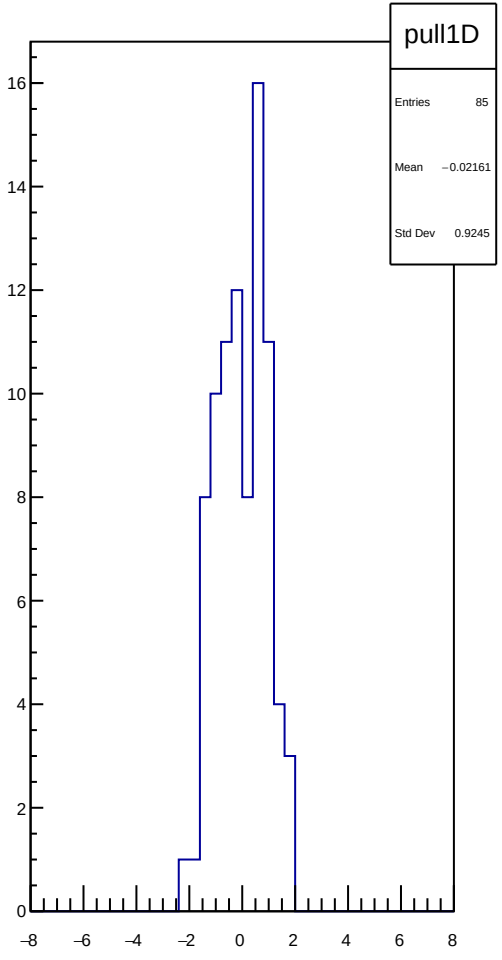

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8081 / 84
p0 6601 ± 5.205
8000
7500
7000
6500
6000
5500

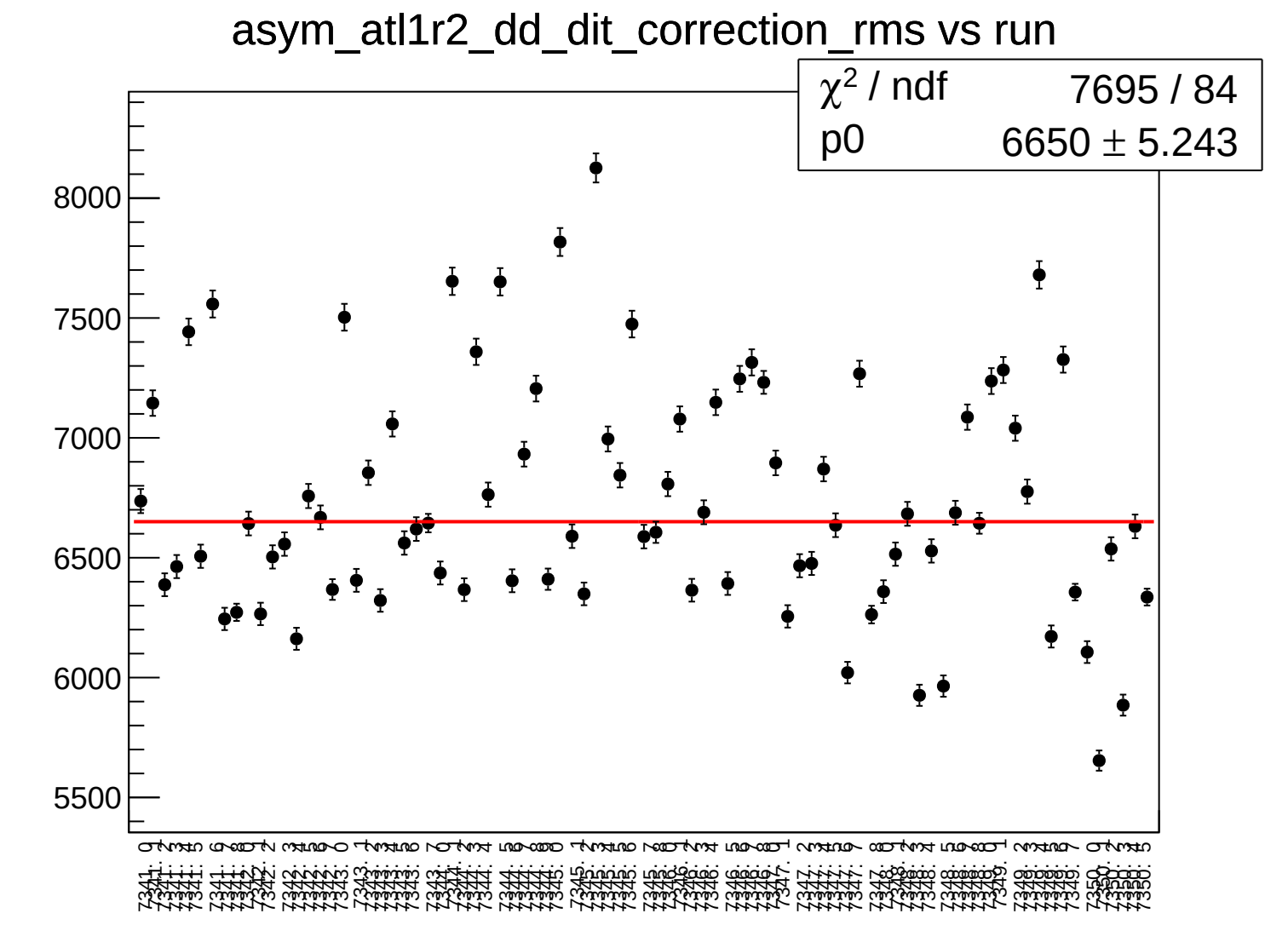

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 69.8 / 84
p0 −2385 ± 1910
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 6.97
Std Dev 103.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

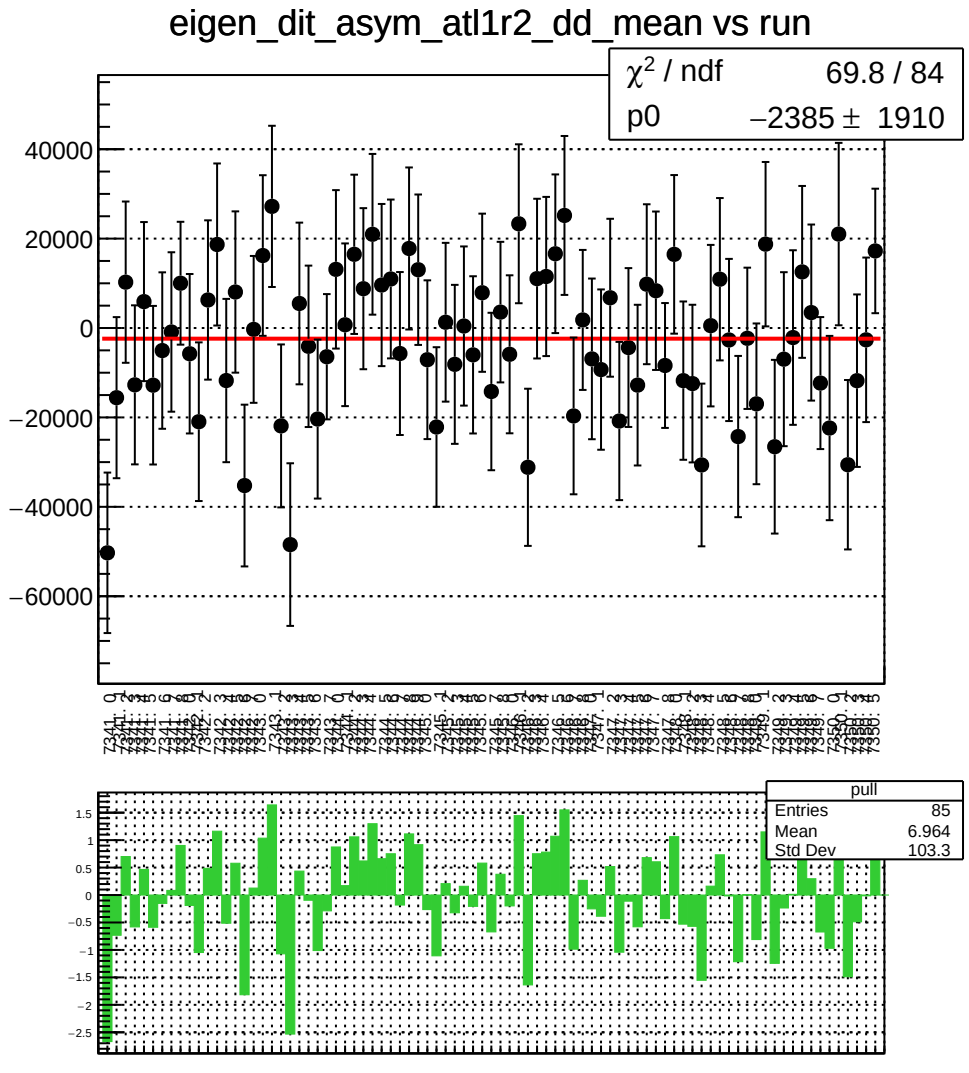

pull1D
Entries 85
Mean −0.007306
Std Dev 0.9062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

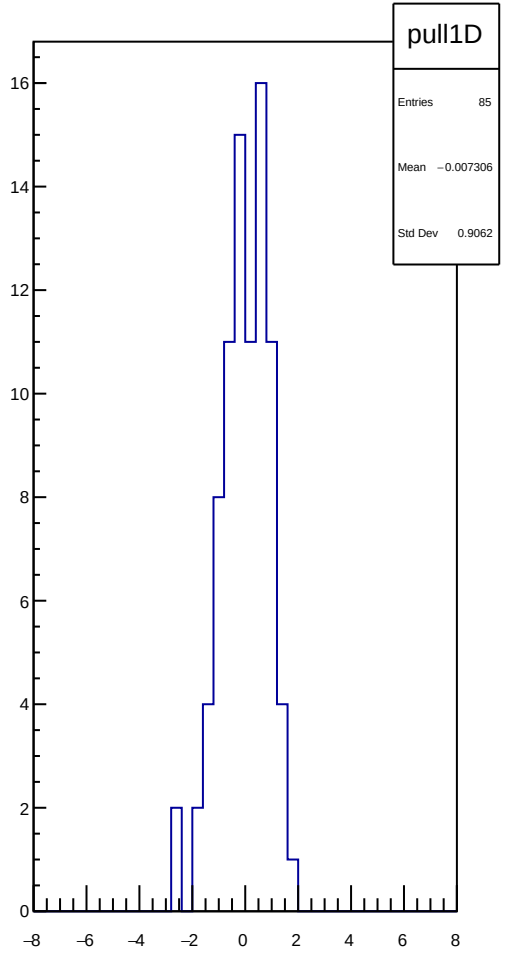

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1802 / 84
p0 1716 ± 1.351
2000
1950
1900
1850
1800
1750
1700
1650

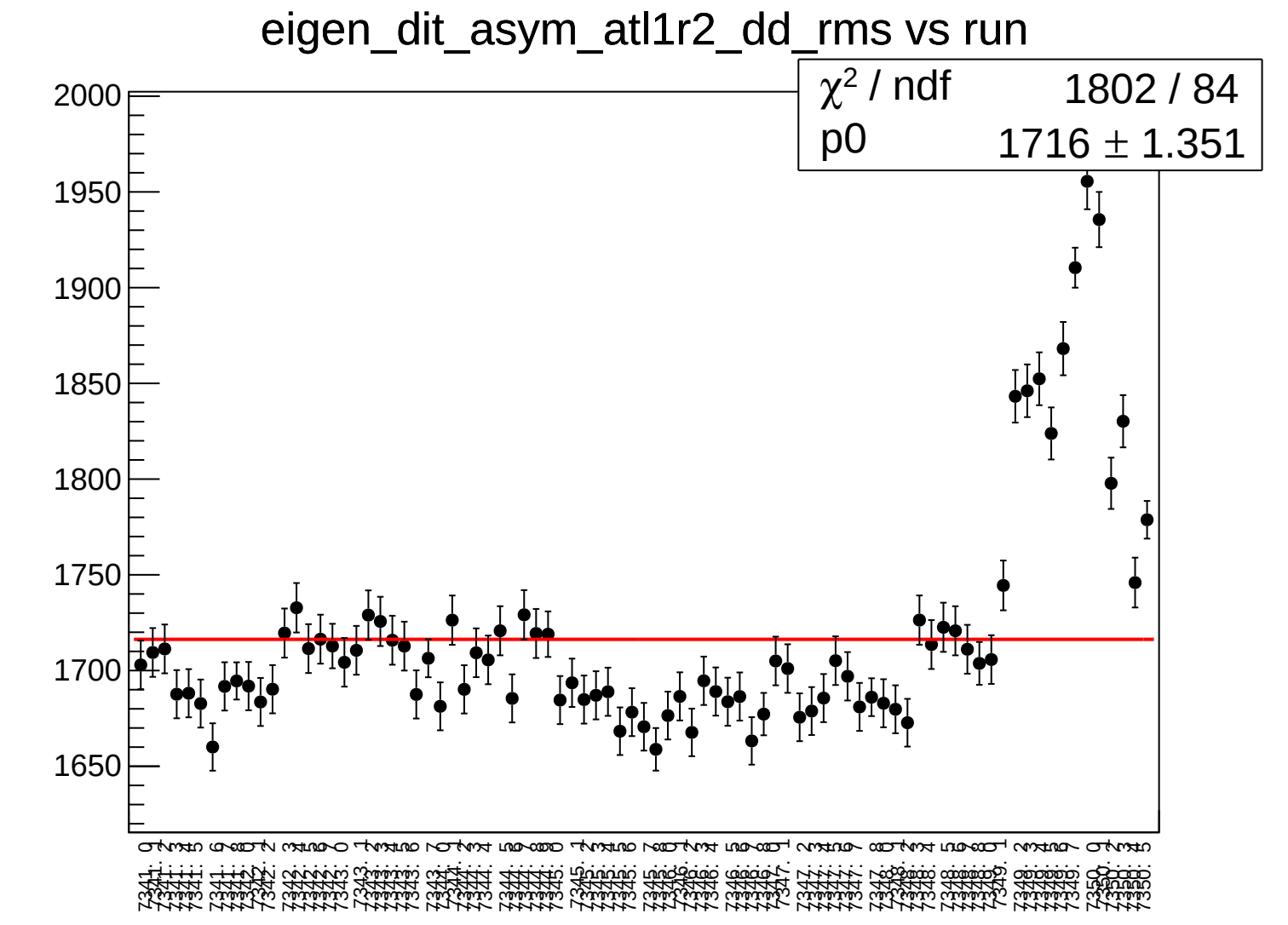

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 72.7 / 84
p0 3340 ± 7415
pull
Entries 85
Mean −115.3
Std Dev 0

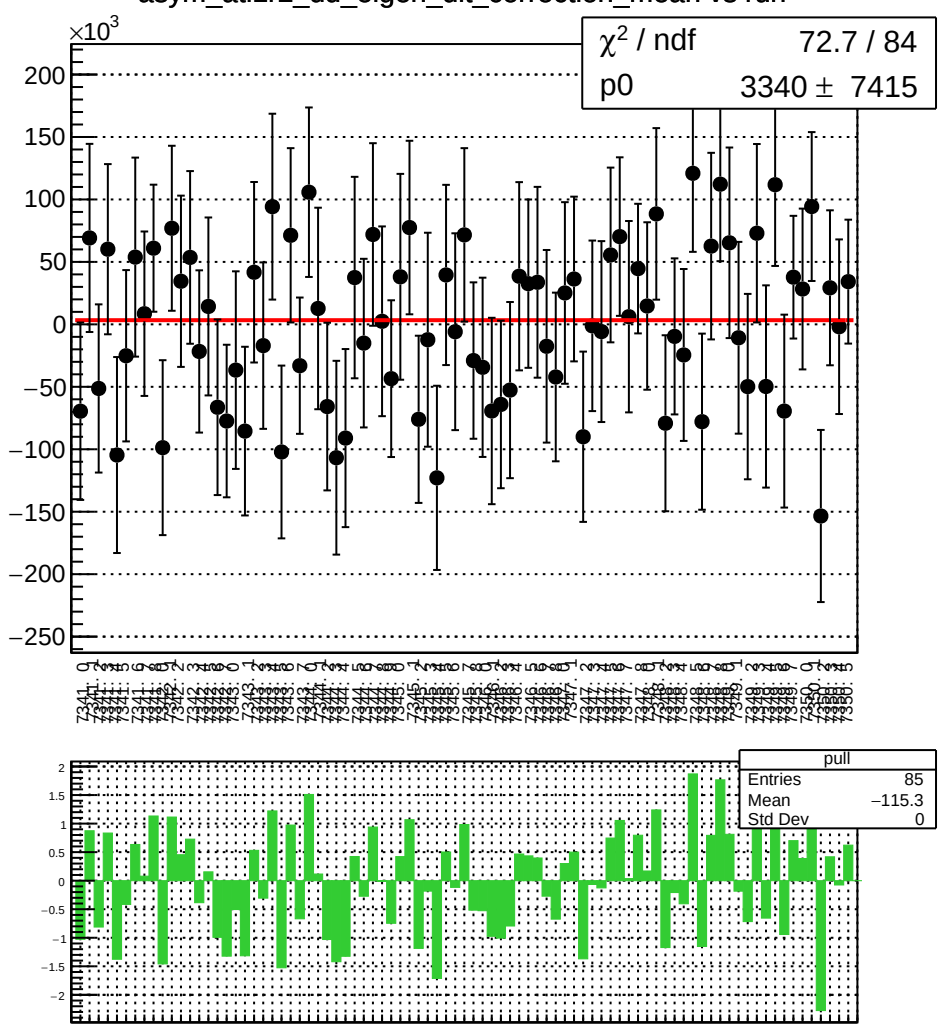

pull1D
Entries 85
Mean −0.02161
Std Dev 0.9245

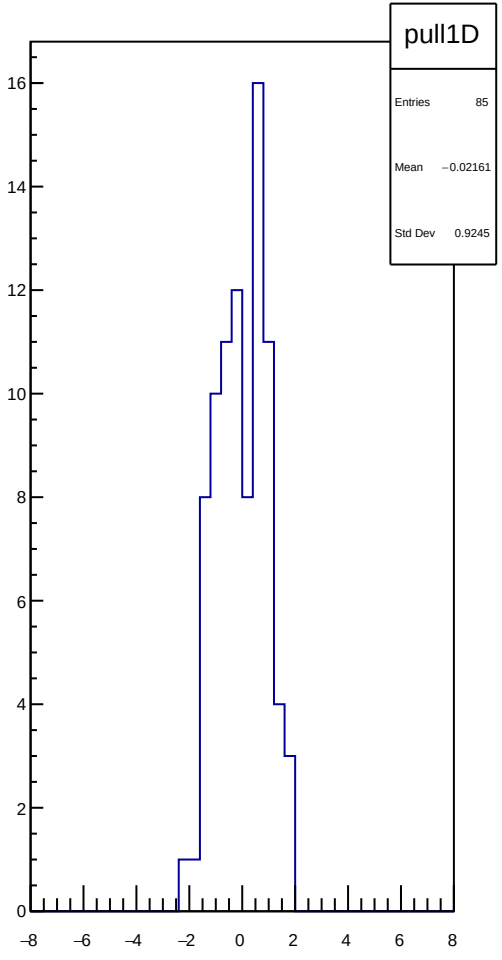

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 7695 / 84
p0 6650 ± 5.243
8000
7500
7000
6500
6000
5500

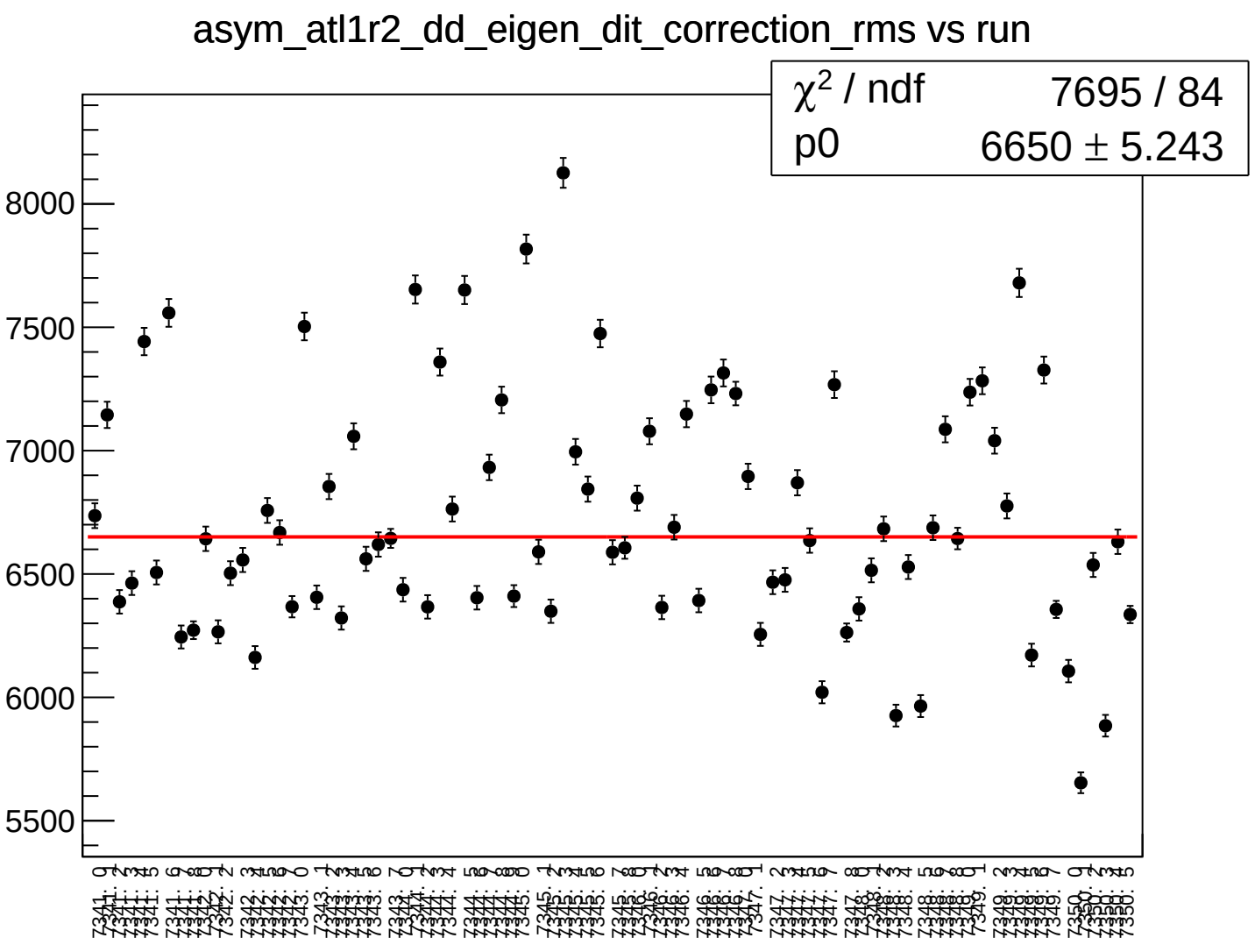

eigen_dit_asym_atl1r2_dd_mean vs run
χ^2 / ndf 69.8 / 84
p0 −2385 ± 1910
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 6.964
Std Dev 103.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

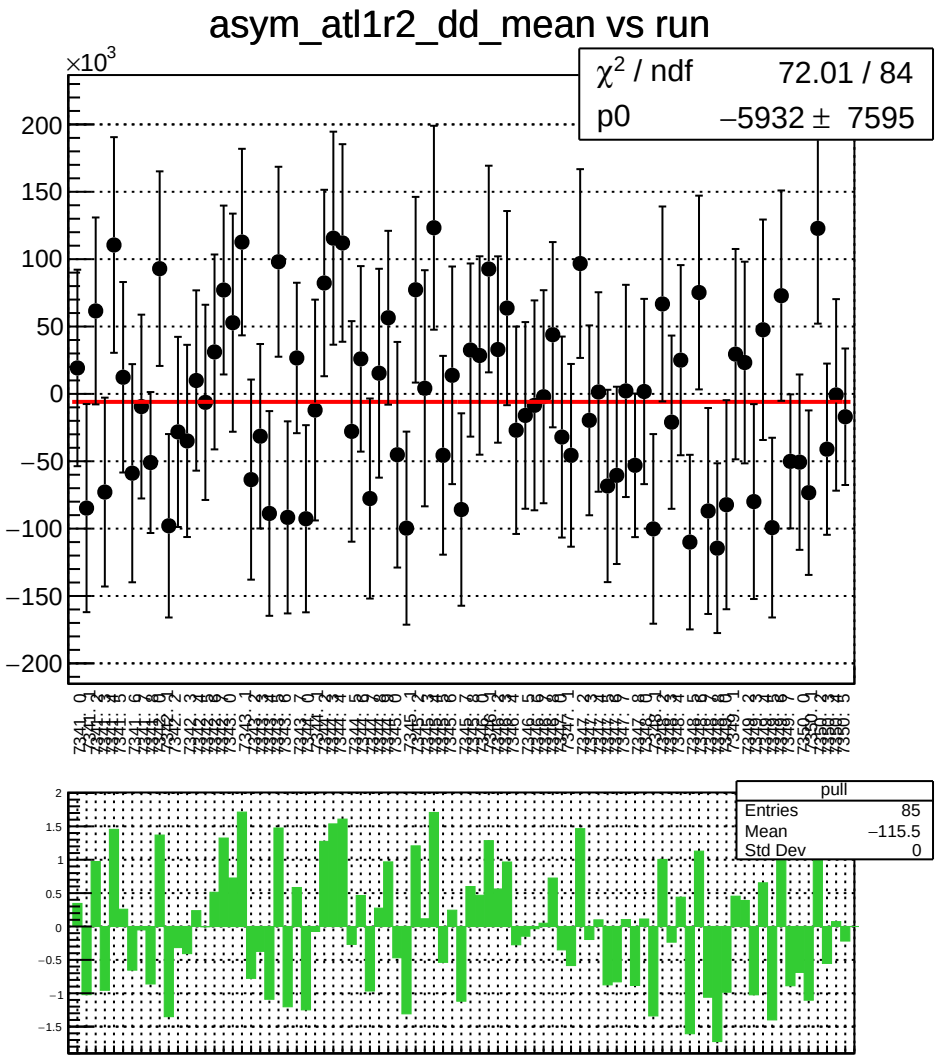

pull1D
Entries 85
Mean −0.007306
Std Dev 0.9062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

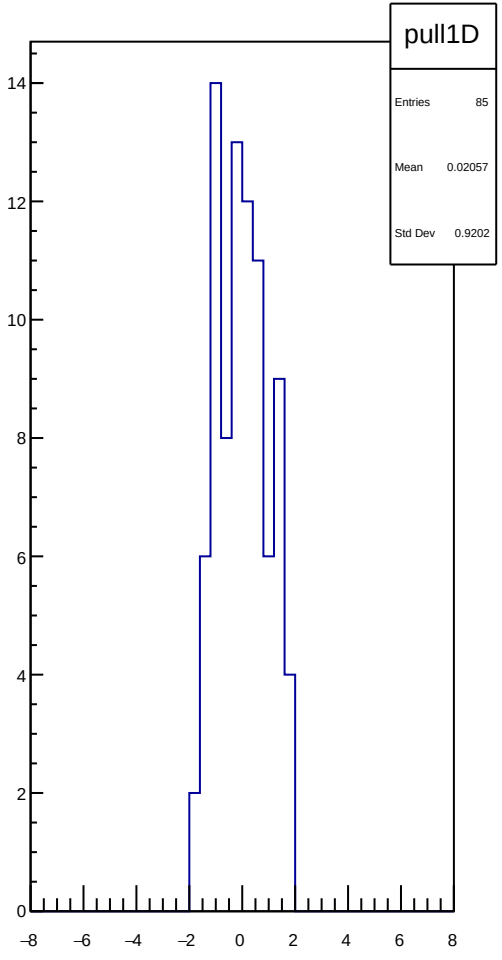

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1802 / 84
p0 1716 ± 1.351
2000
1950
1900
1850
1800
1750
1700
1650

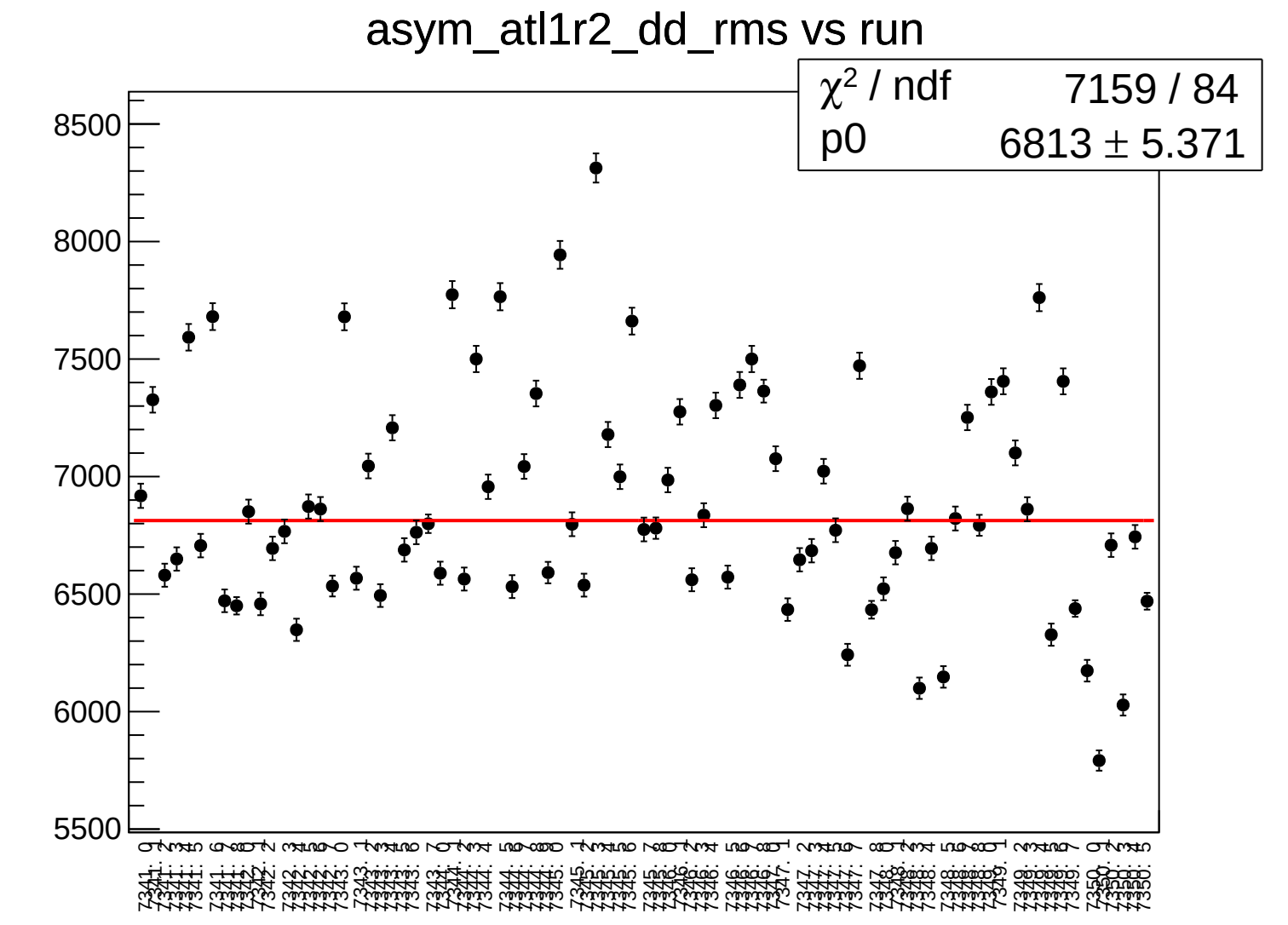

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.7 / 84
p0 3340 ± 7415
pull
Entries 85
Mean −115.3
Std Dev 0

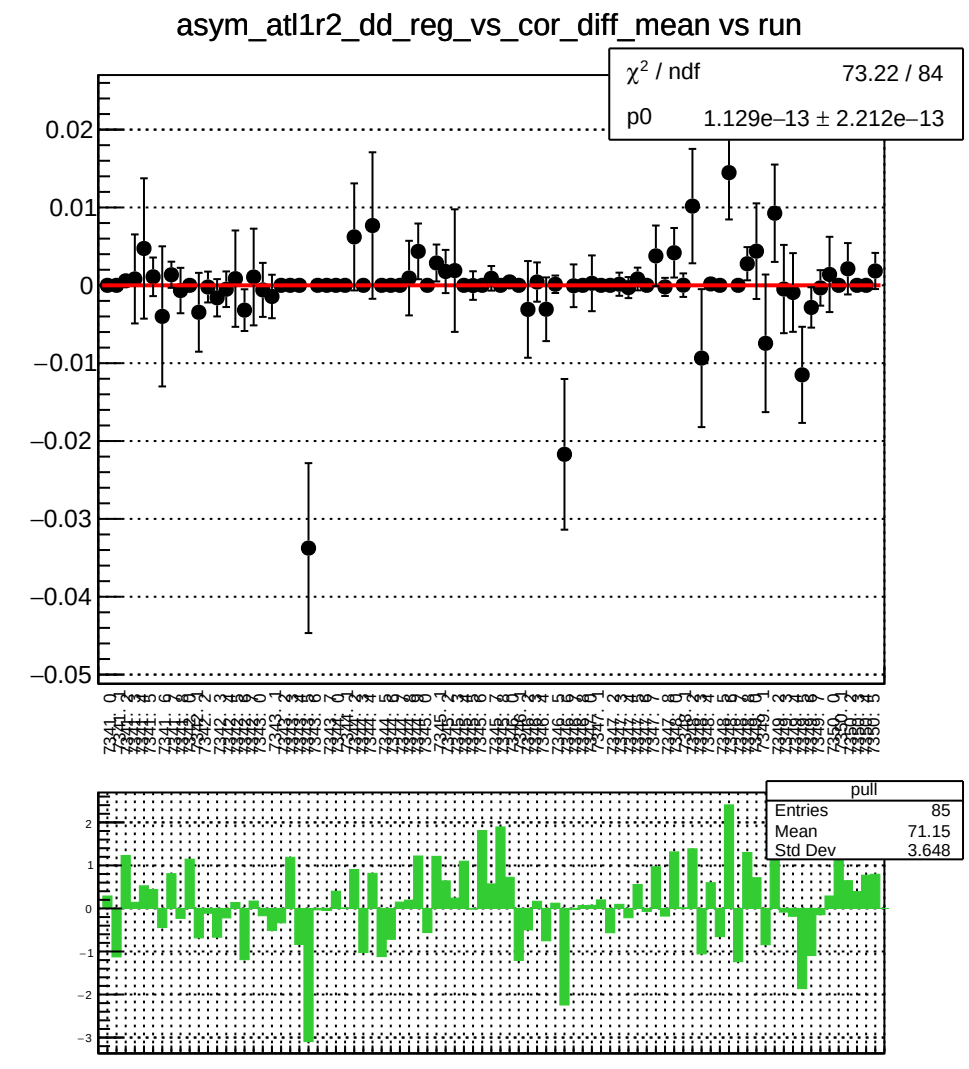

pull1D
Entries 85
Mean −0.02161
Std Dev 0.9245

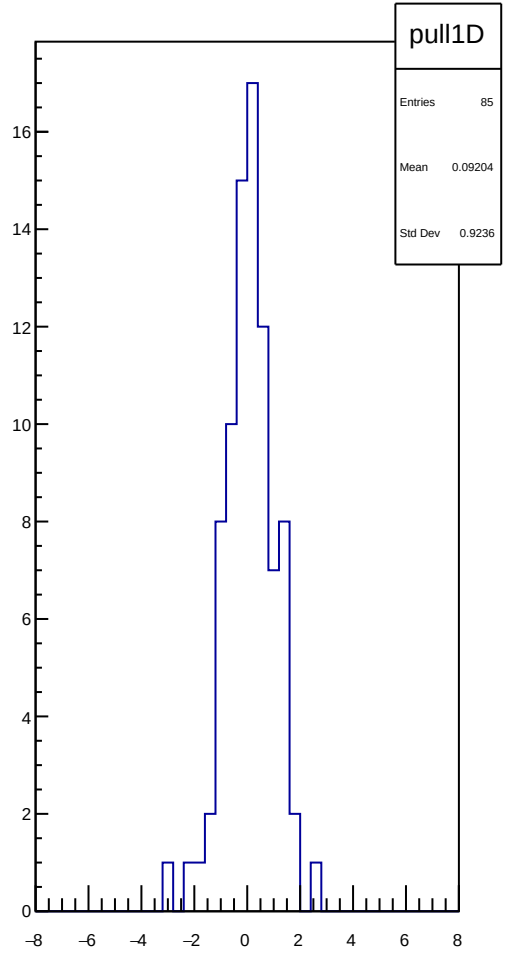

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7695 / 84
p0 6650 ± 5.243
8000
7500
7000
6500
6000
5500

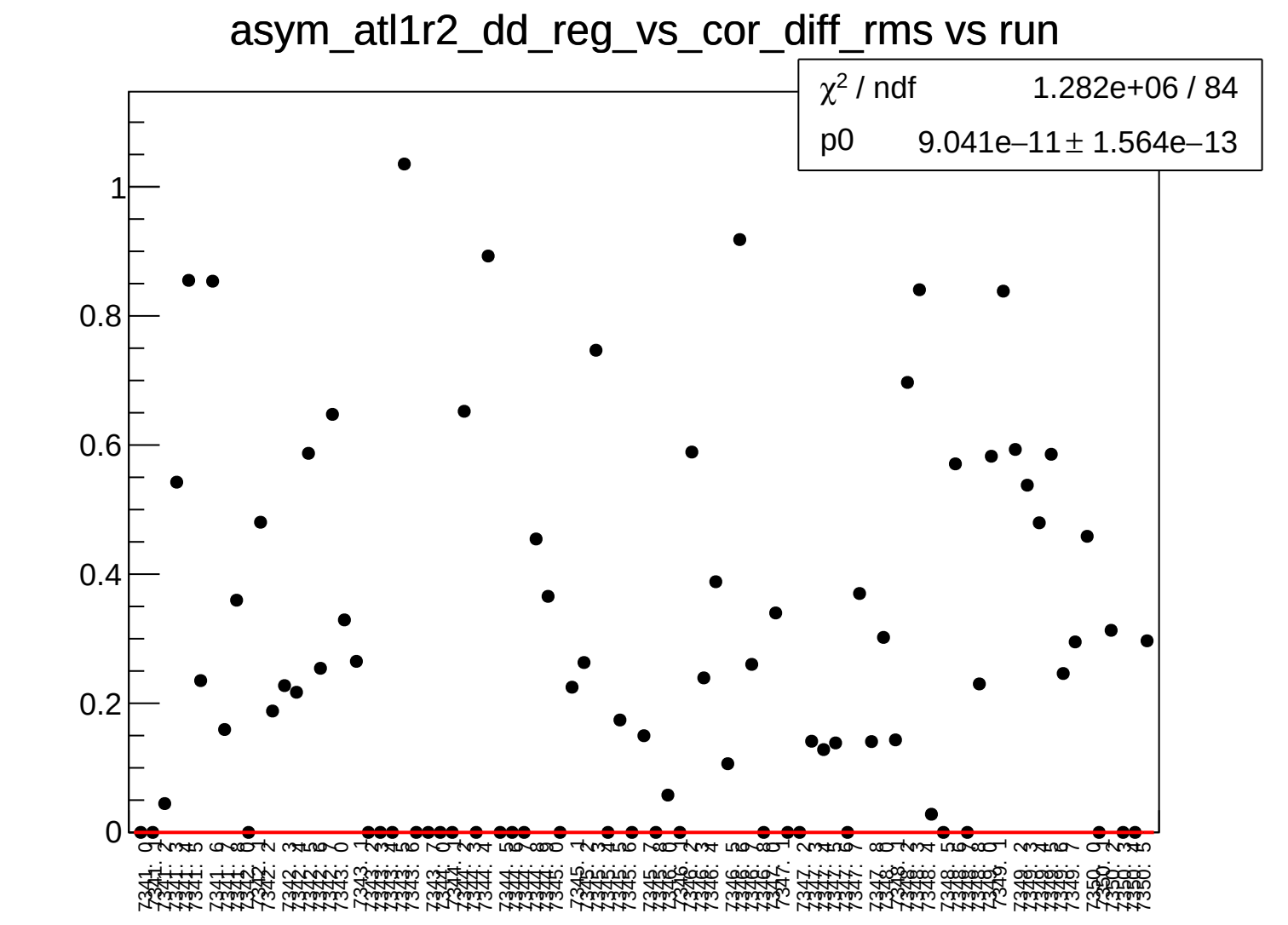

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 72.01 / 84
p0 −5932 ± 7595
pull
Entries 85
Mean −115.5
Std Dev 0

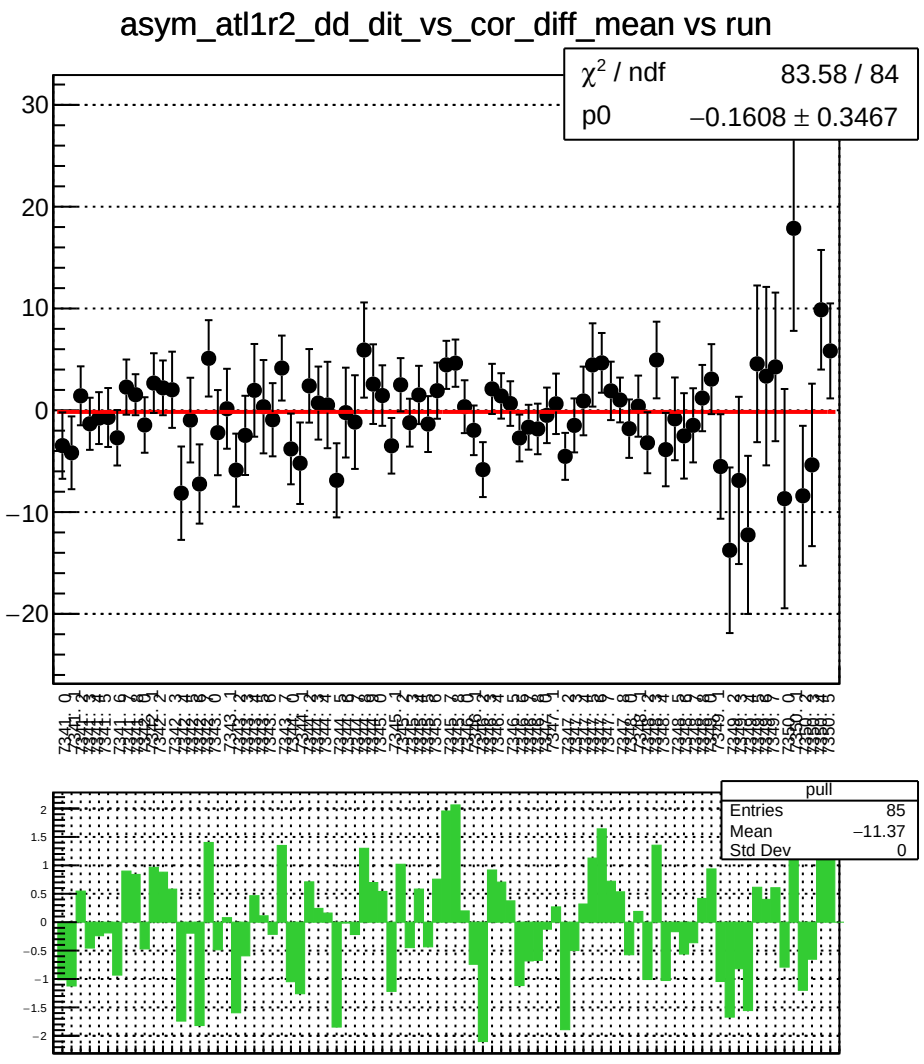

pull1D
Entries 85
Mean 0.02057
Std Dev 0.9202

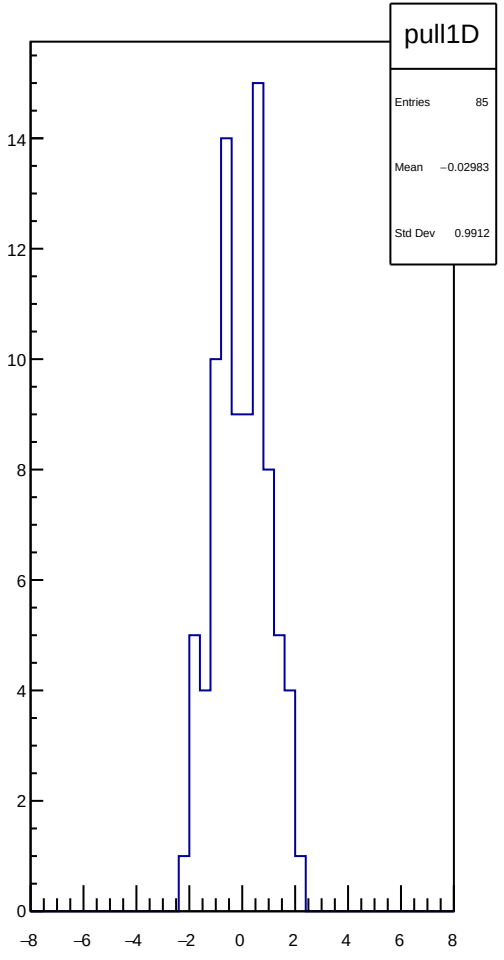

asym_atl1r2_dd_rms vs run
χ^2 / ndf 7159 / 84
p0 6813 ± 5.371
8500
8000
7500
7000
6500
6000
5500

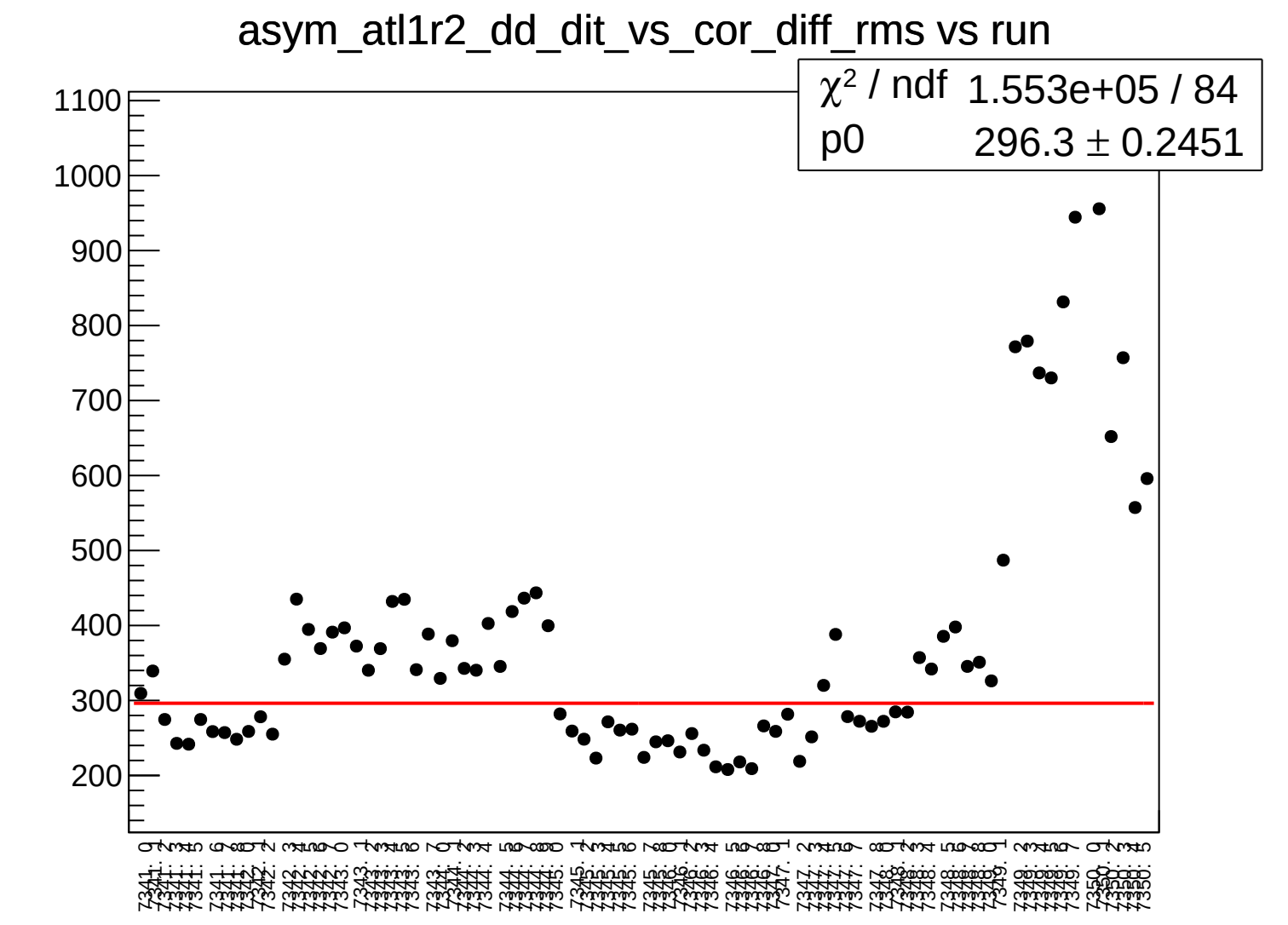

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.22 / 84
p0 1.129e−13 ± 2.212e−13
pull
Entries 85
Mean 71.15
Std Dev 3.648

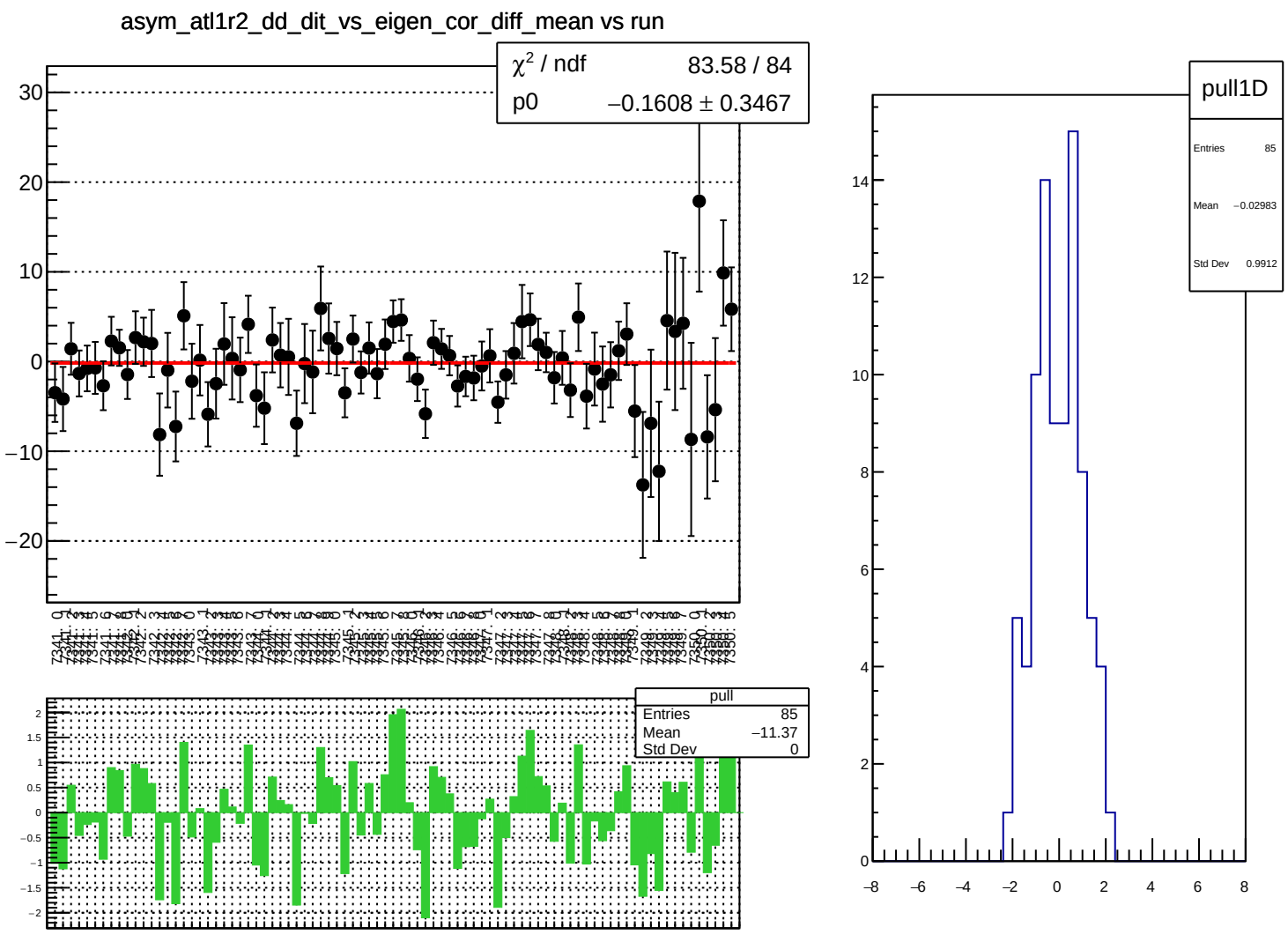

pull1D
Entries 85
Mean 0.09204
Std Dev 0.9236

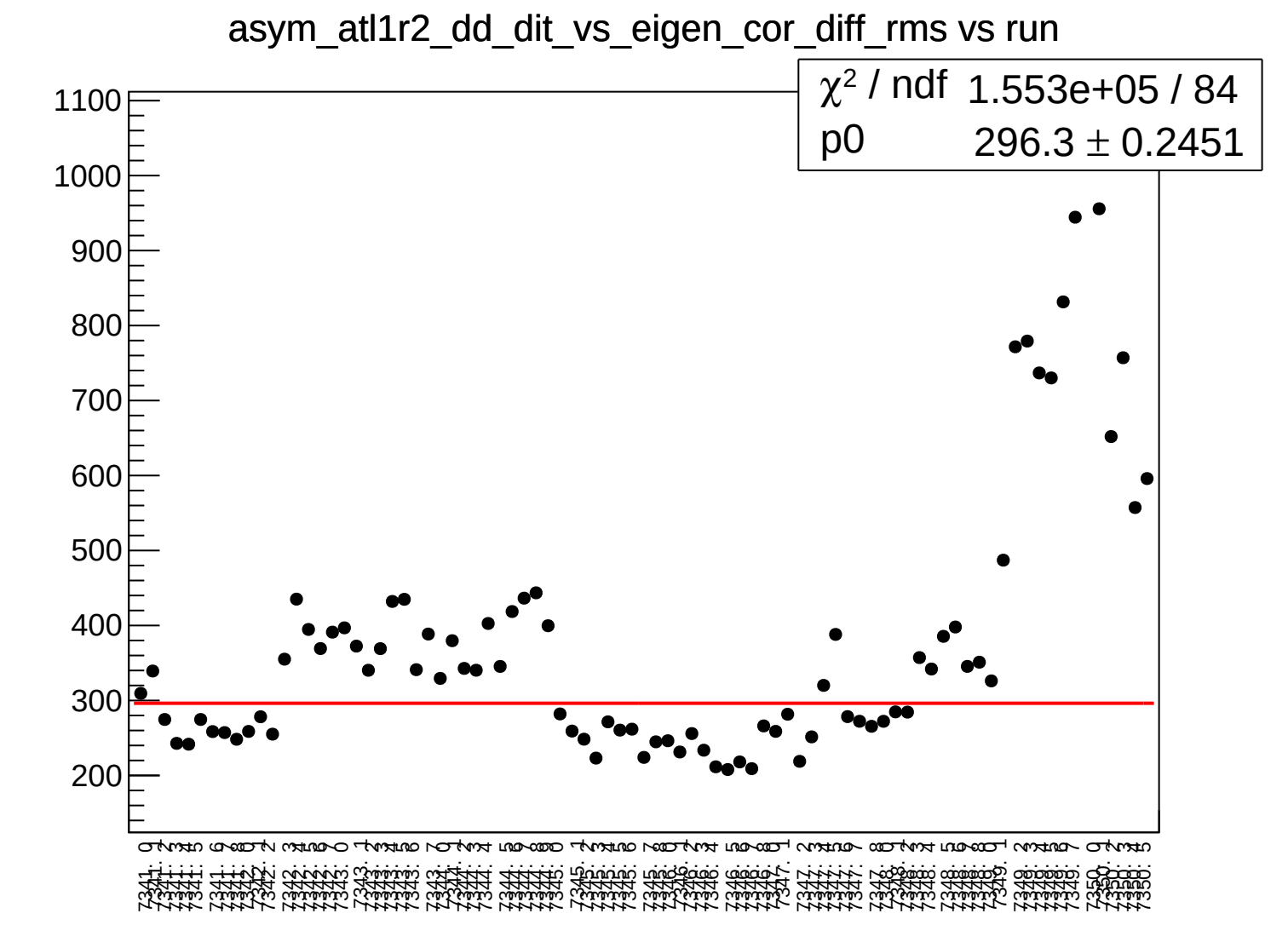

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.282e+06 / 84
p0 9.041e−11 ± 1.564e−13
1
0.8
0.6
0.4
0.2
0

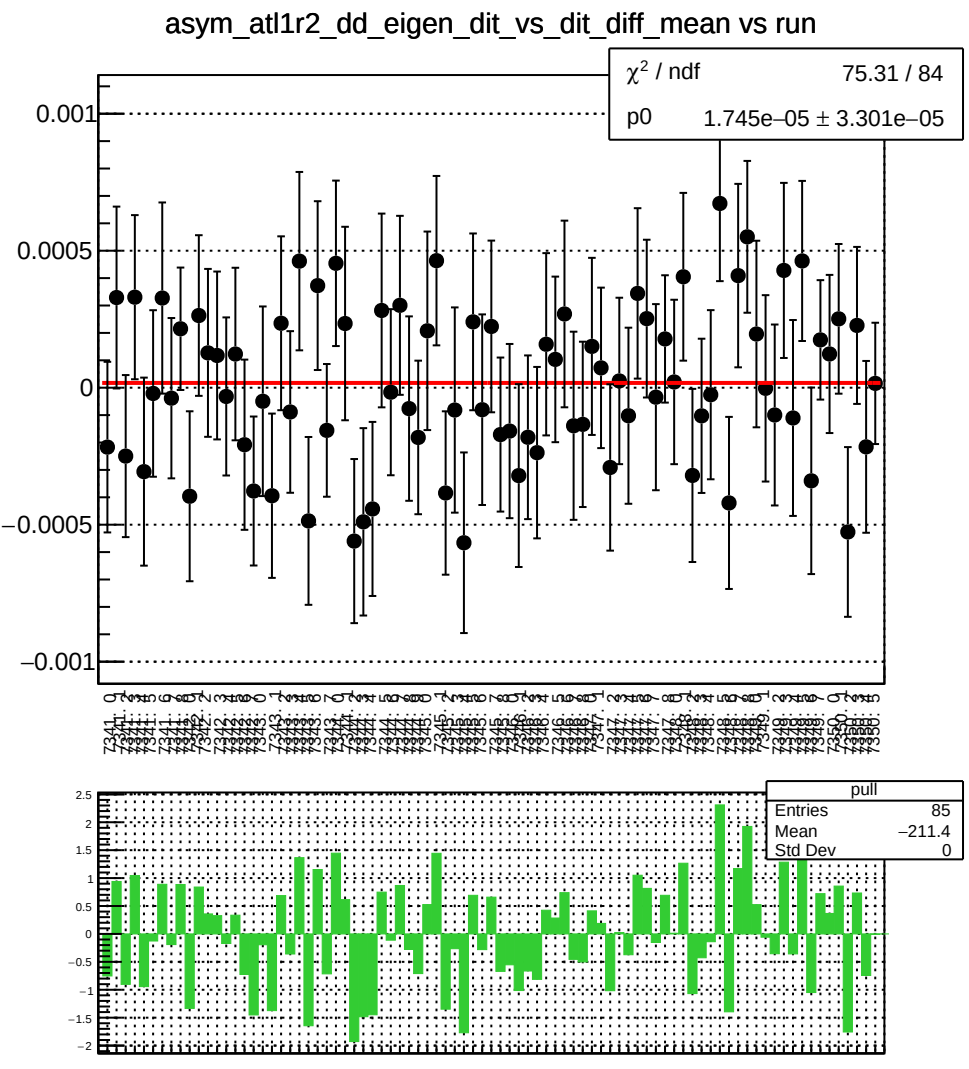

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.58 / 84
p0 −0.1608 ± 0.3467
pull
Entries 85
Mean −11.37
Std Dev 0

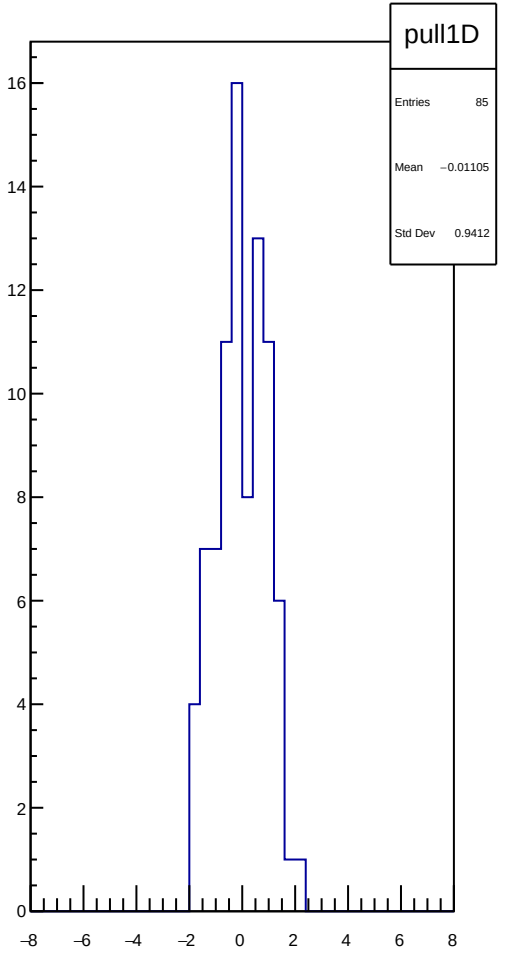

pull1D
Entries 85
Mean −0.02983
Std Dev 0.9912

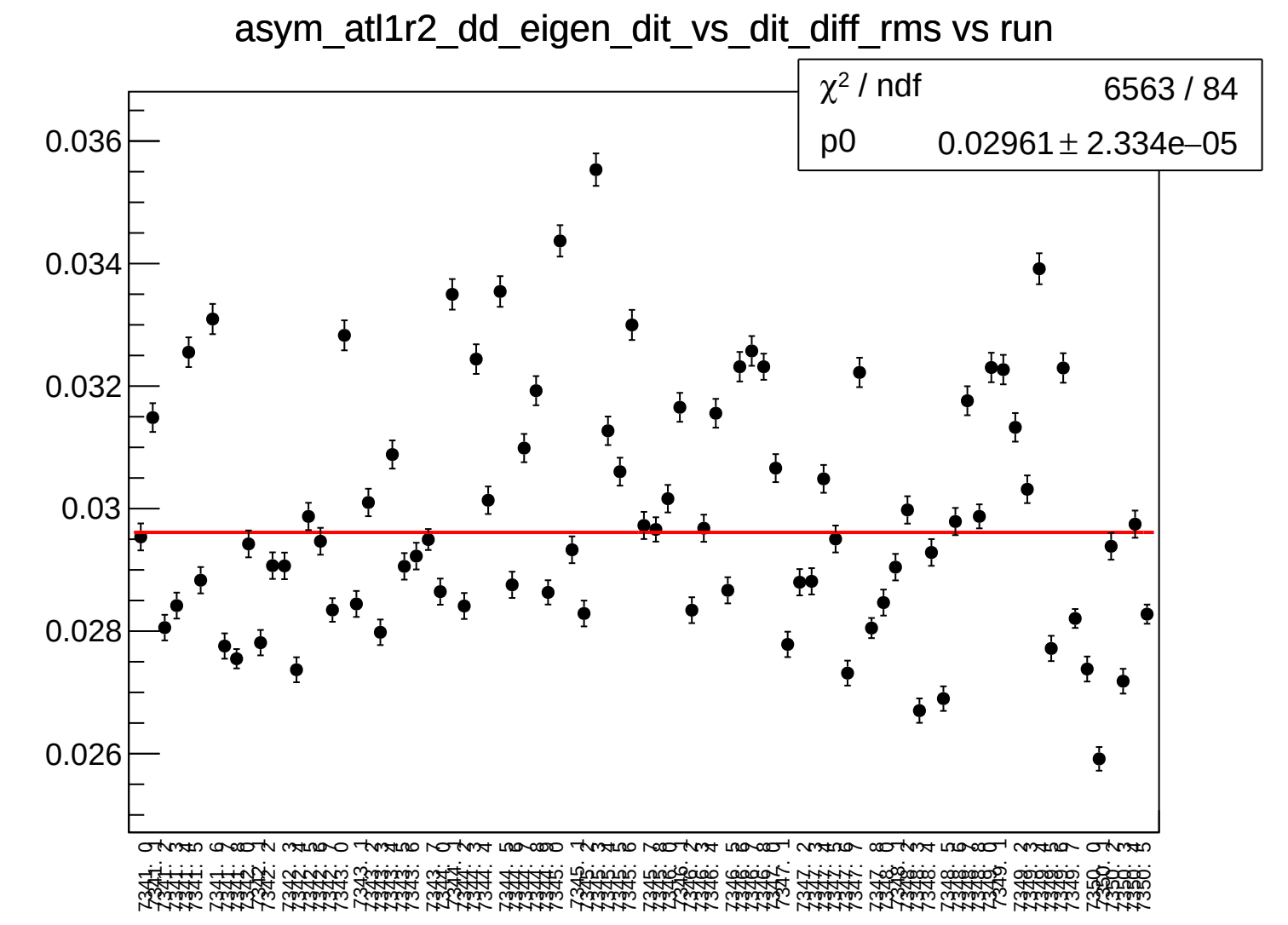

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 84
p0 296.3 ± 0.2451
1100
1000
900
800
700
600
500
400
300
200

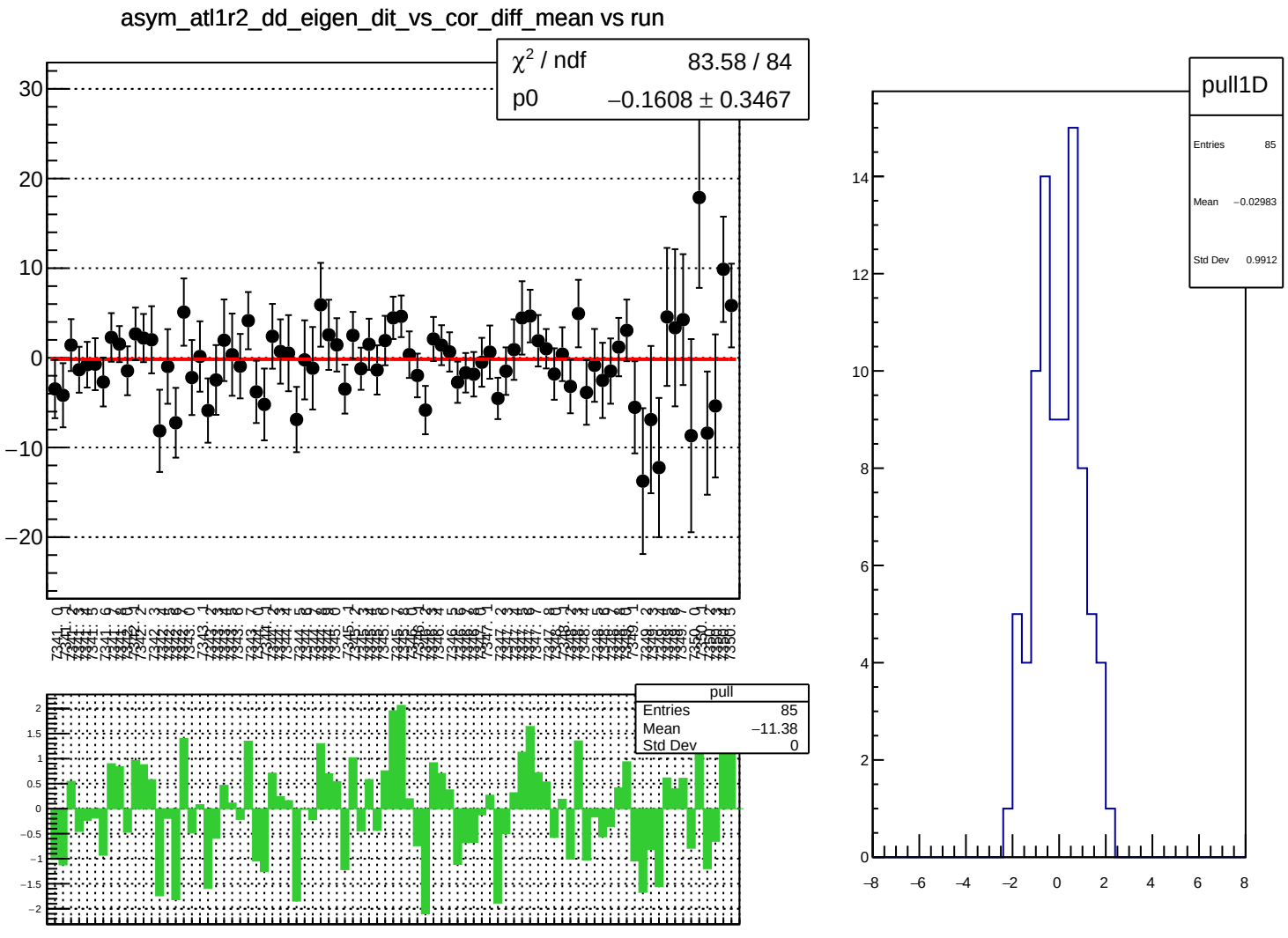

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.58 / 84
p0 −0.1608 ± 0.3467
pull
Entries 85
Mean −11.37
Std Dev 0
pull1D
Entries 85
Mean −0.02983
Std Dev 0.9912

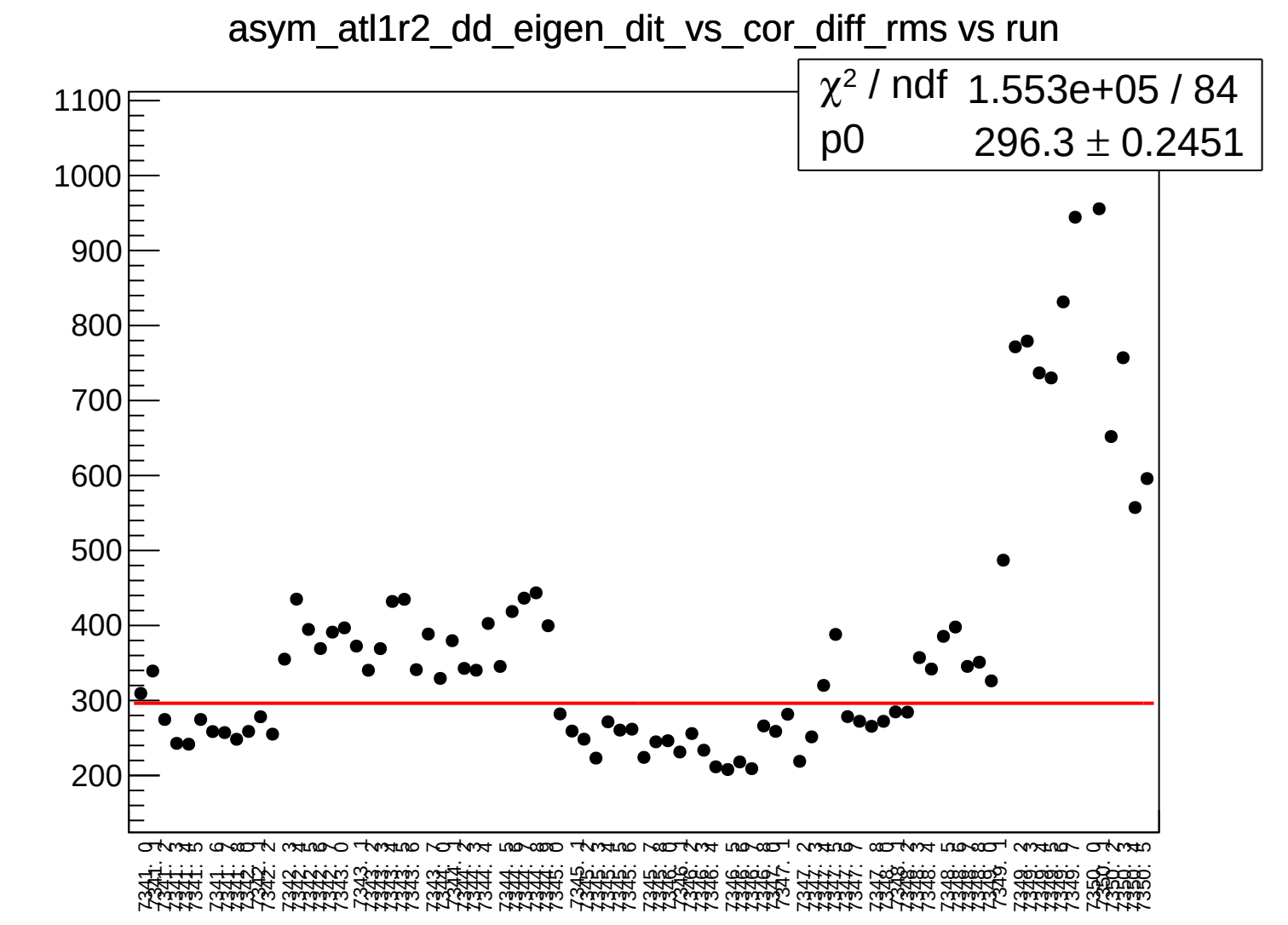

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 84
p0 296.3 ± 0.2451
1100
1000
900
800
700
600
500
400
300
200

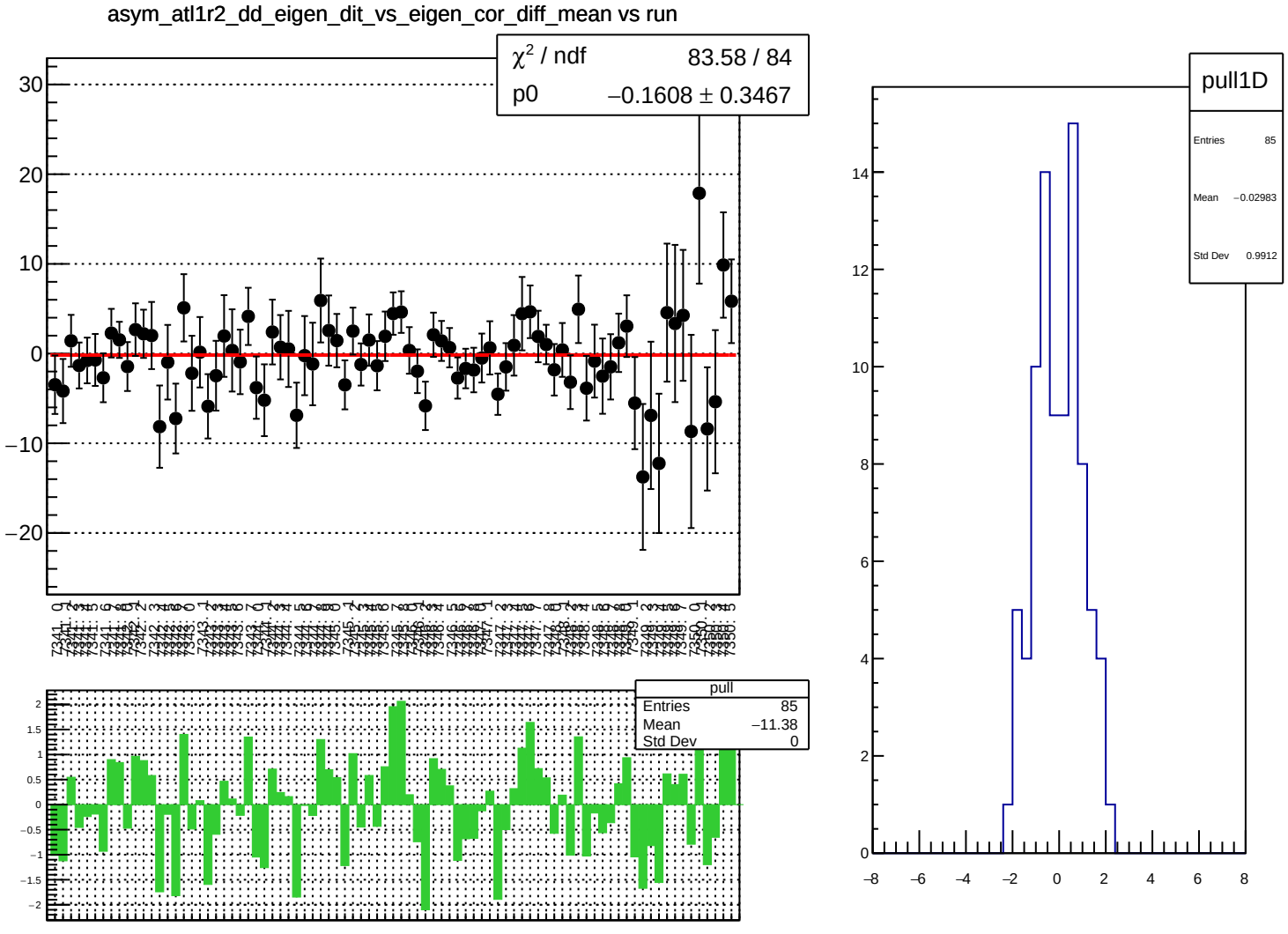

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.31 / 84
p0 1.745e−05 ± 3.301e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean −211.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

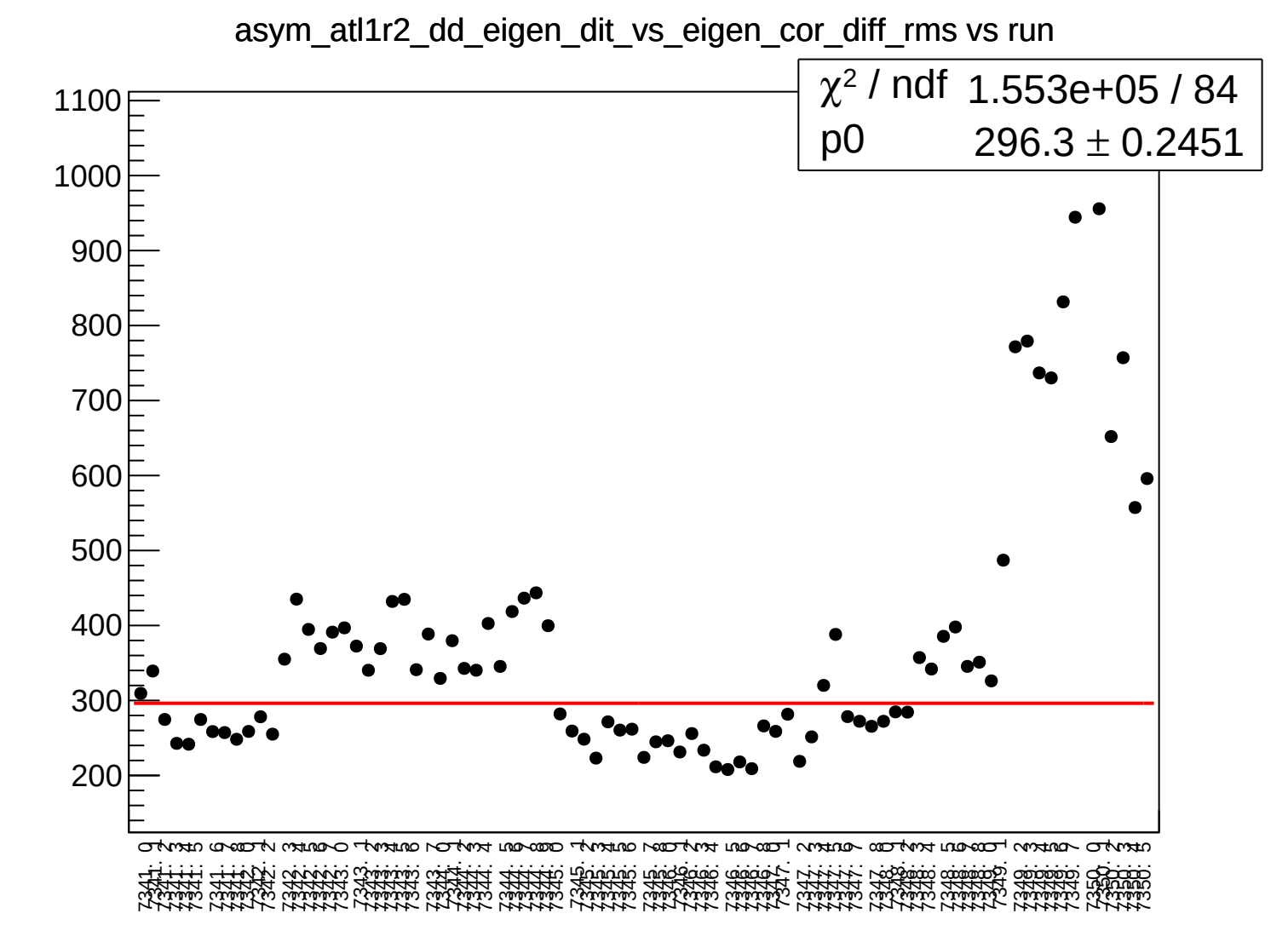

pull1D
Entries 85
Mean −0.01105
Std Dev 0.9412
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

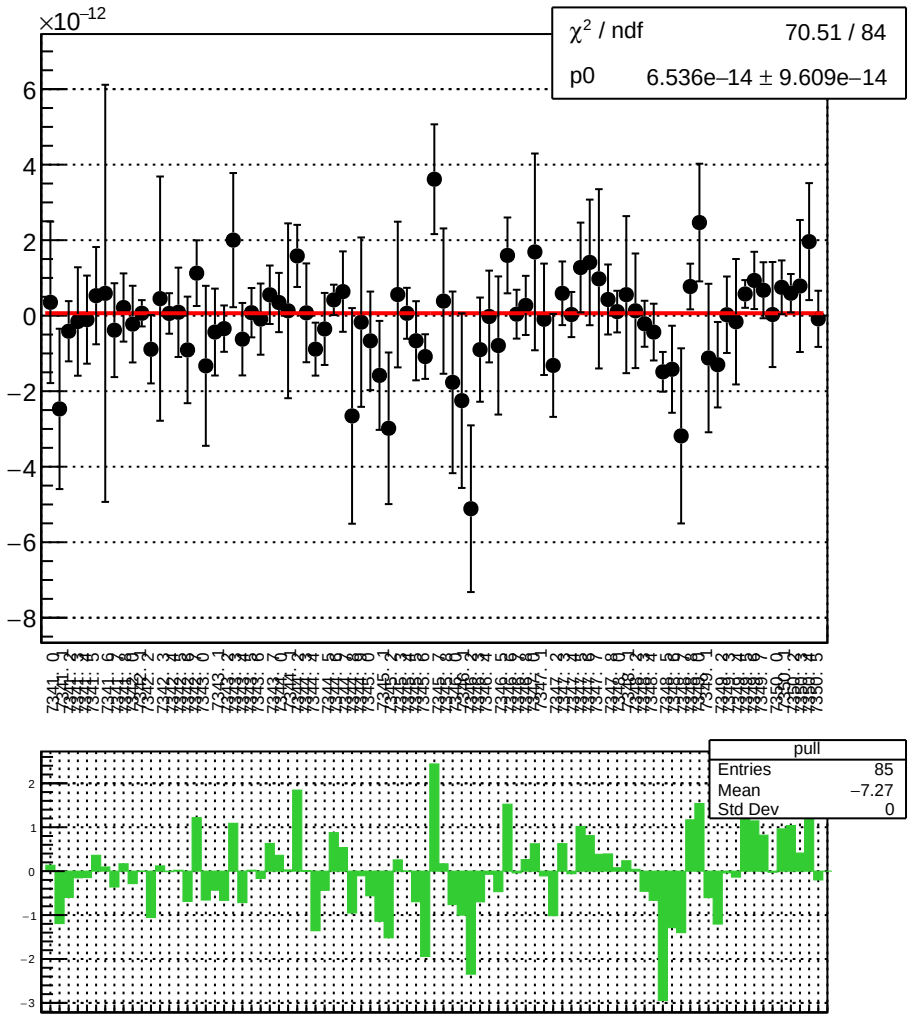

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6563 / 84
p0 0.02961 ± 2.334e−05
0.036
0.034
0.032
0.03
0.028
0.026

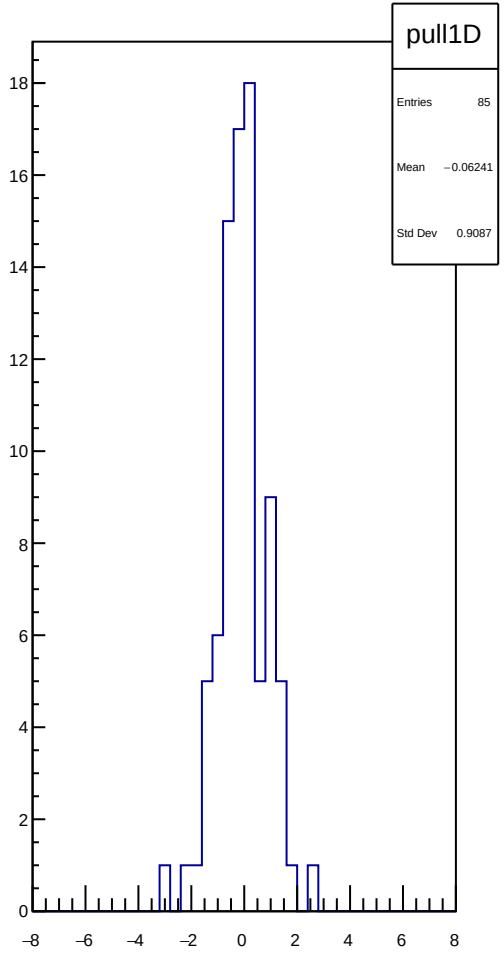

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.58 / 84
p0 −0.1608 ± 0.3467
pull
Entries 85
Mean −11.38
Std Dev 0
pull1D
Entries 85
Mean −0.02983
Std Dev 0.9912

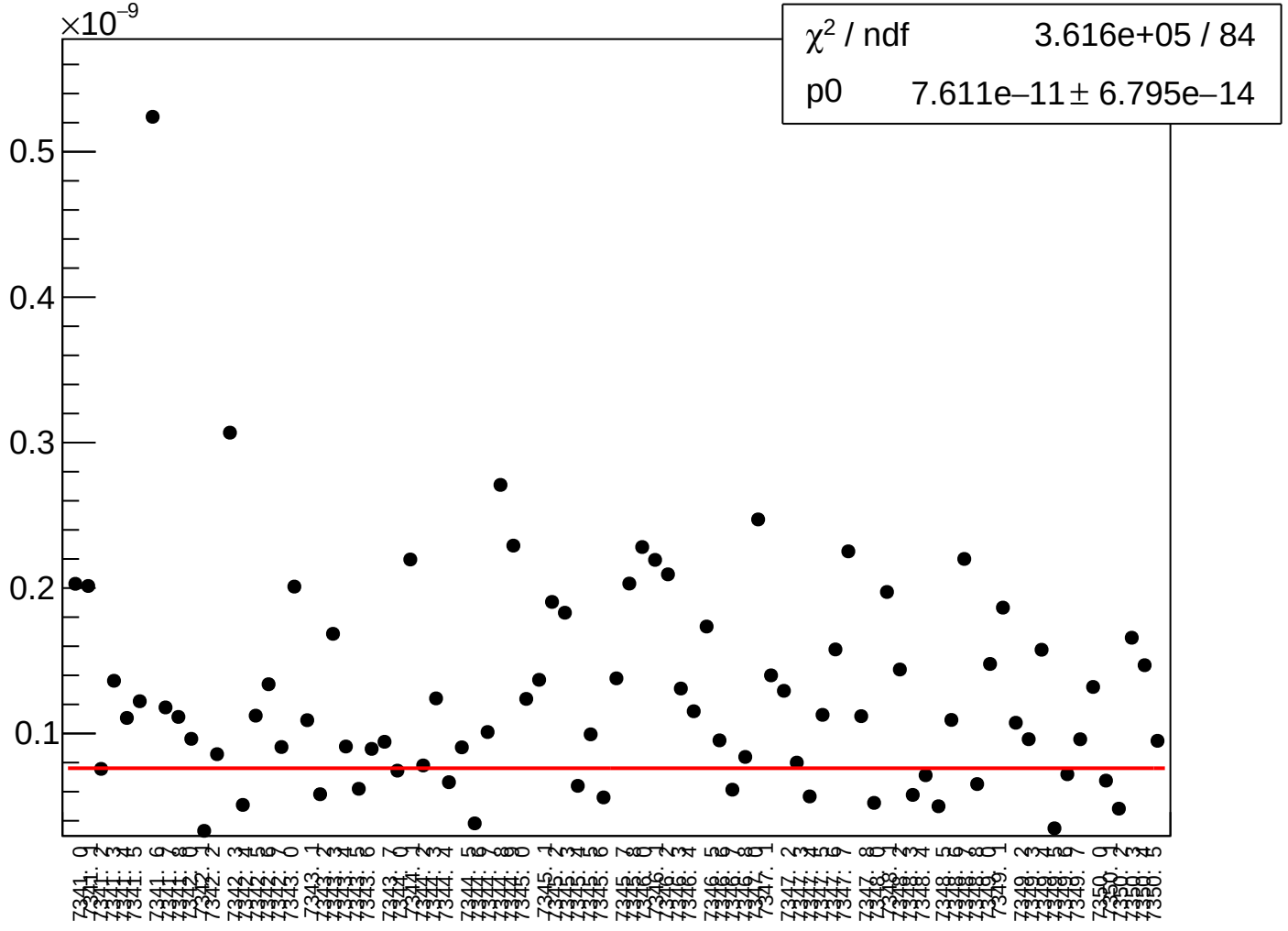

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 84
p0 296.3 ± 0.2451
1100
1000
900
800
700
600
500
400
300
200

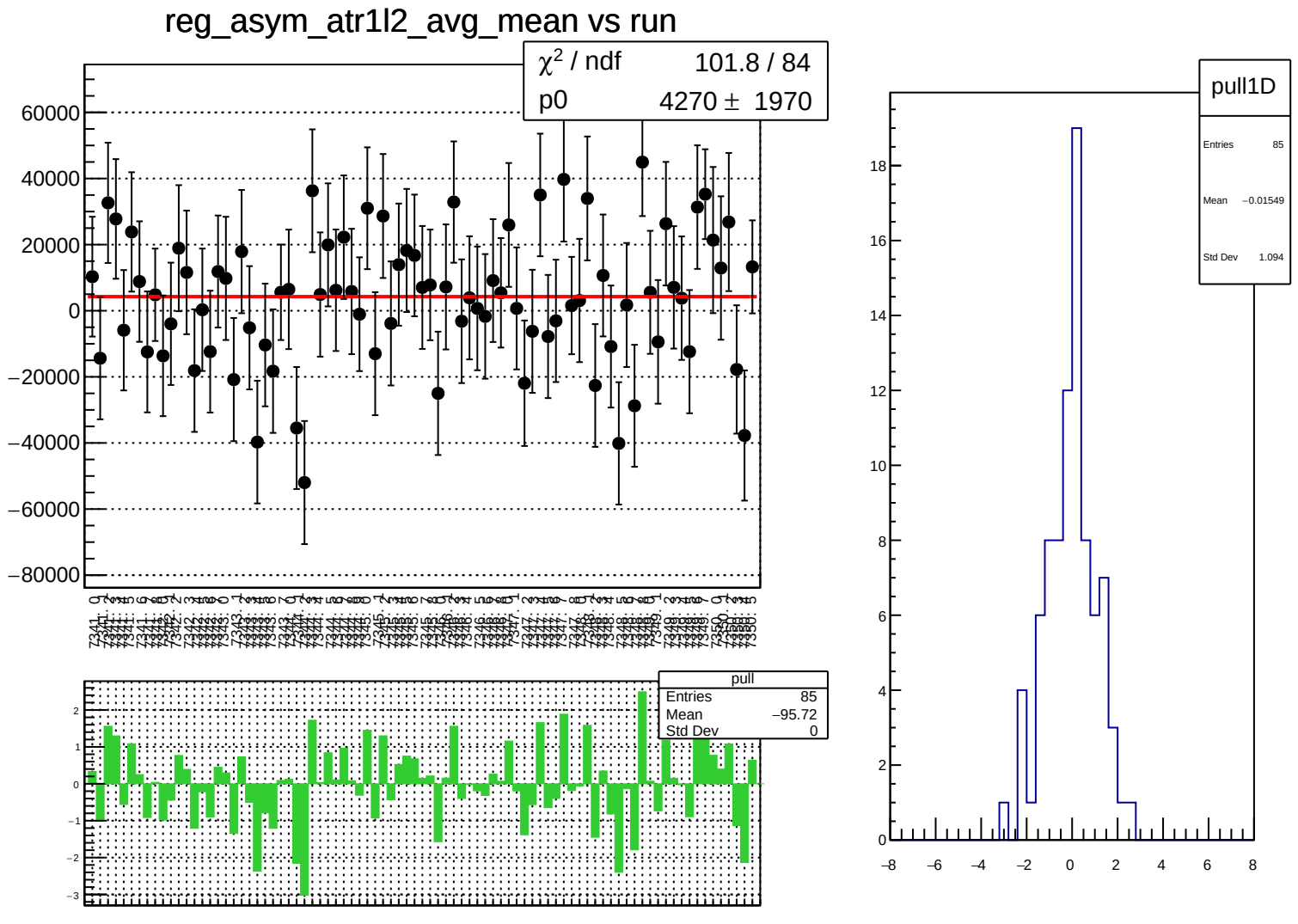

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.58 / 84
p0 −0.1608 ± 0.3467
pull
Entries 85
Mean −11.38
Std Dev 0
pull1D
Entries 85
Mean −0.02983
Std Dev 0.9912

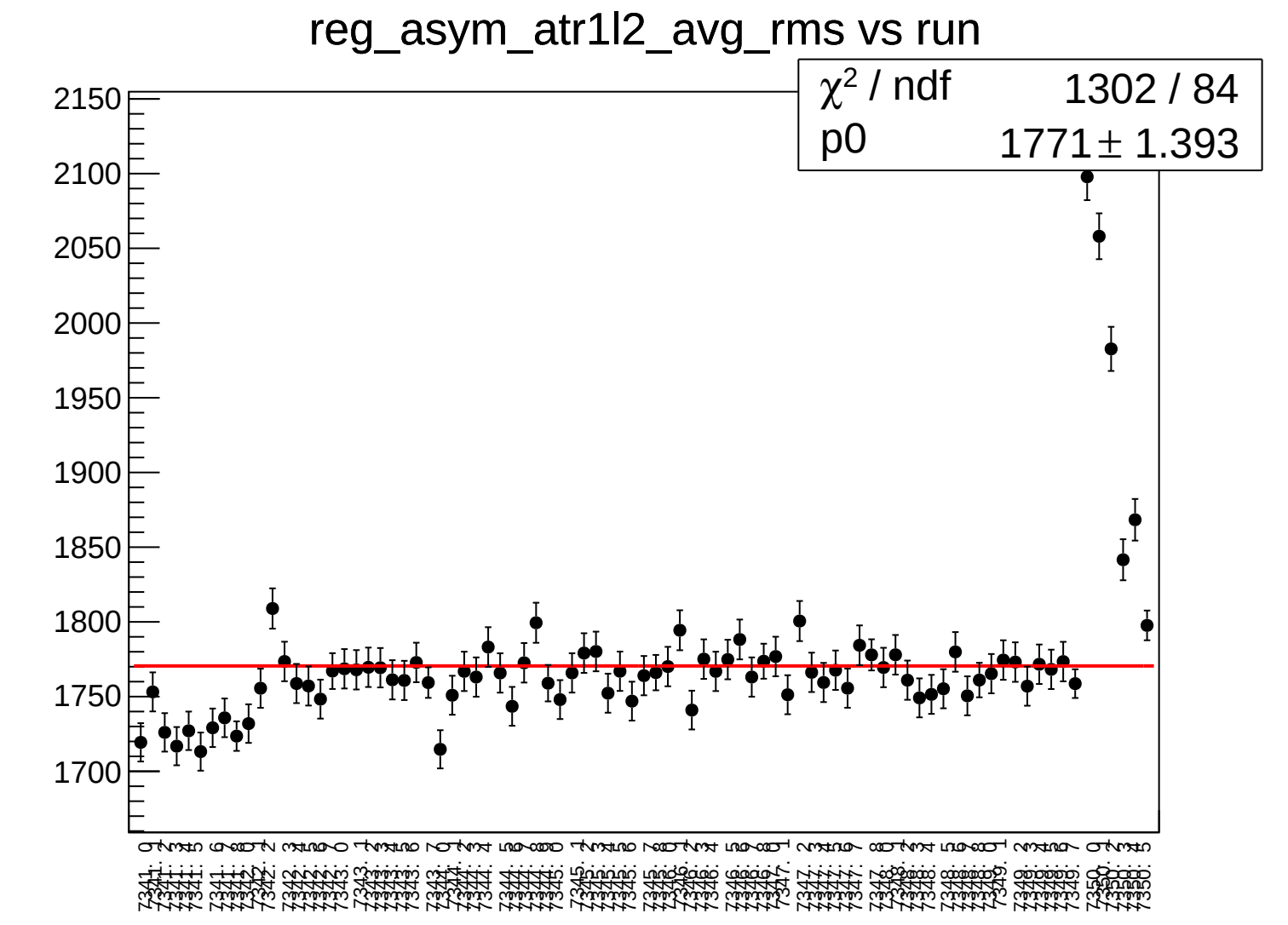

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 84
p0 296.3 ± 0.2451
1100
1000
900
800
700
600
500
400
300
200

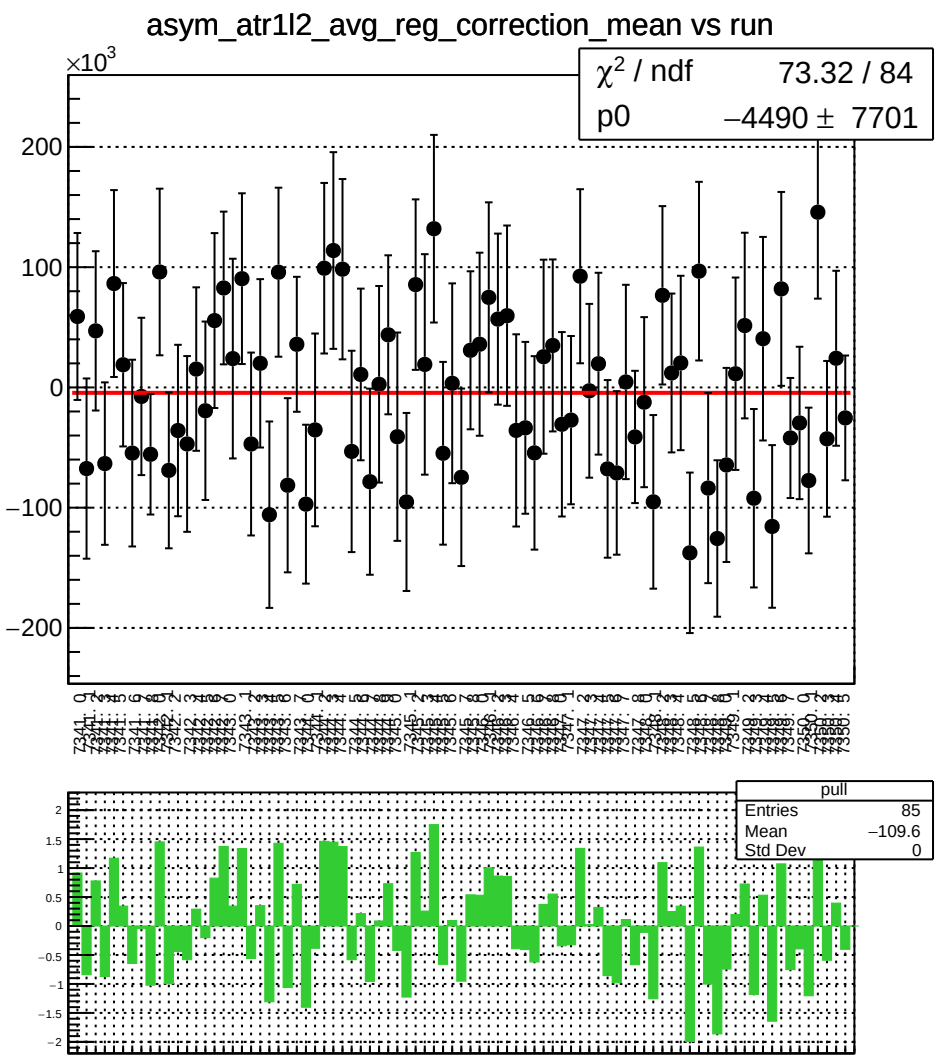

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.51 / 84
p0 6.536e−14 ± 9.609e−14
pull
Entries 85
Mean −7.27
Std Dev 0

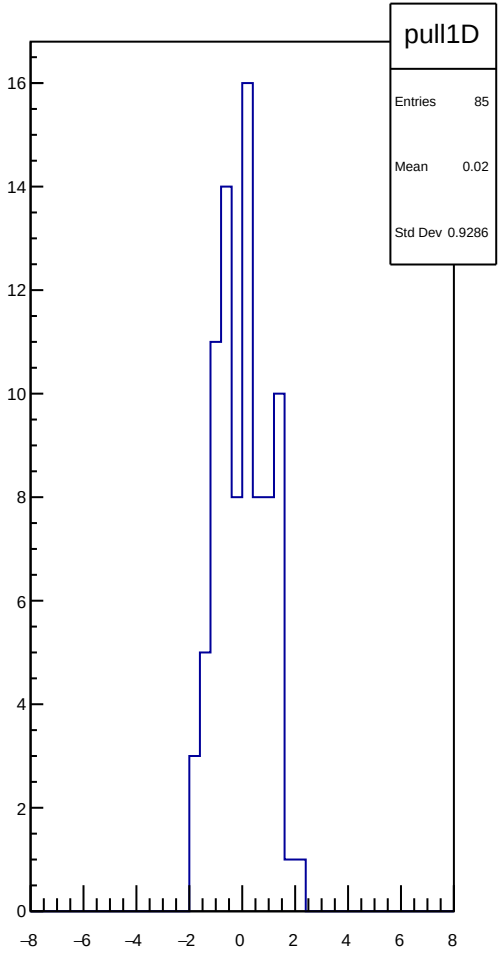

pull1D
Entries 85
Mean −0.06241
Std Dev 0.9087

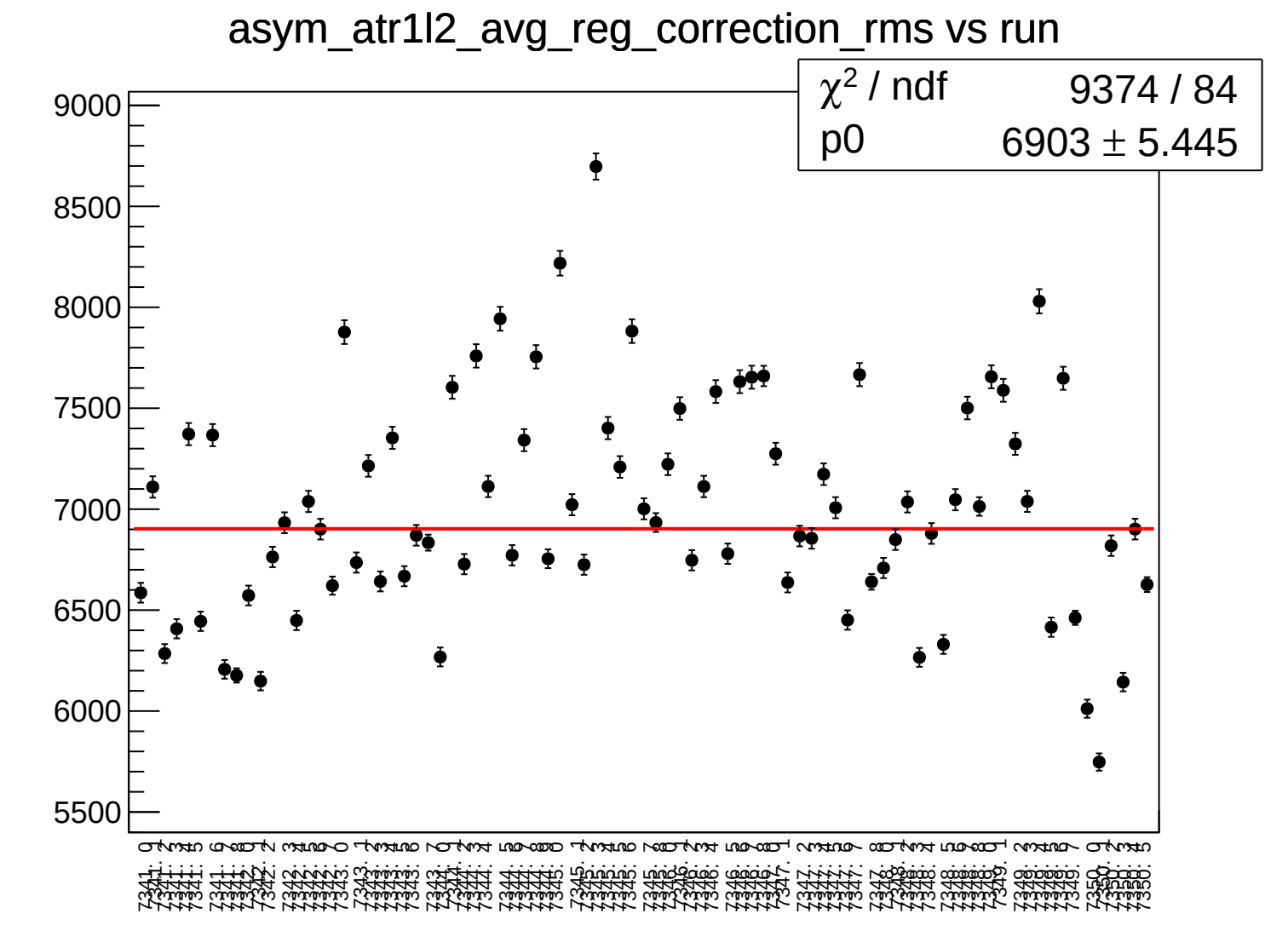

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.616e+05 / 84
p0 7.611e−11 ± 6.795e−14
0.5
0.4
0.3
0.2
0.1

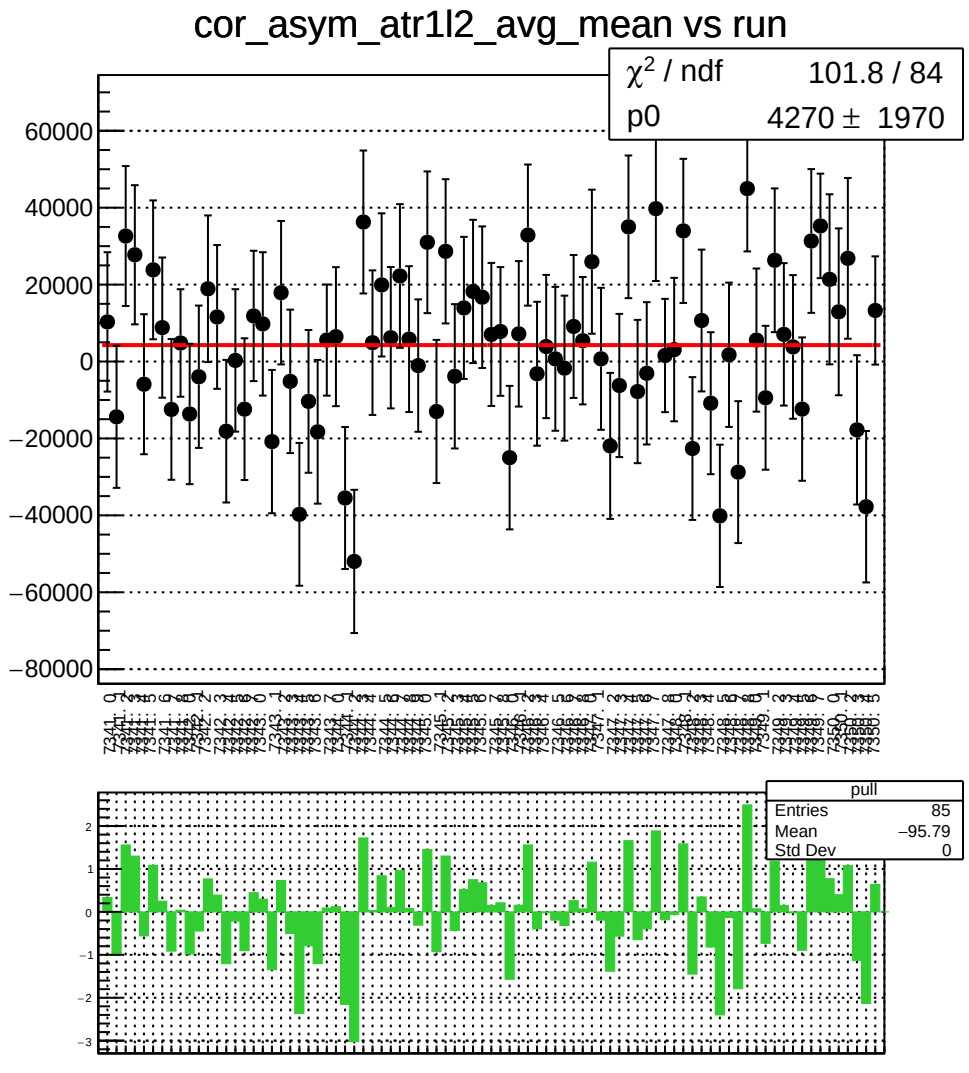

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 101.8 / 84
p0 4270 ± 1970
pull
Entries 85
Mean −95.72
Std Dev 0
pull1D
Entries 85
Mean −0.01549
Std Dev 1.094

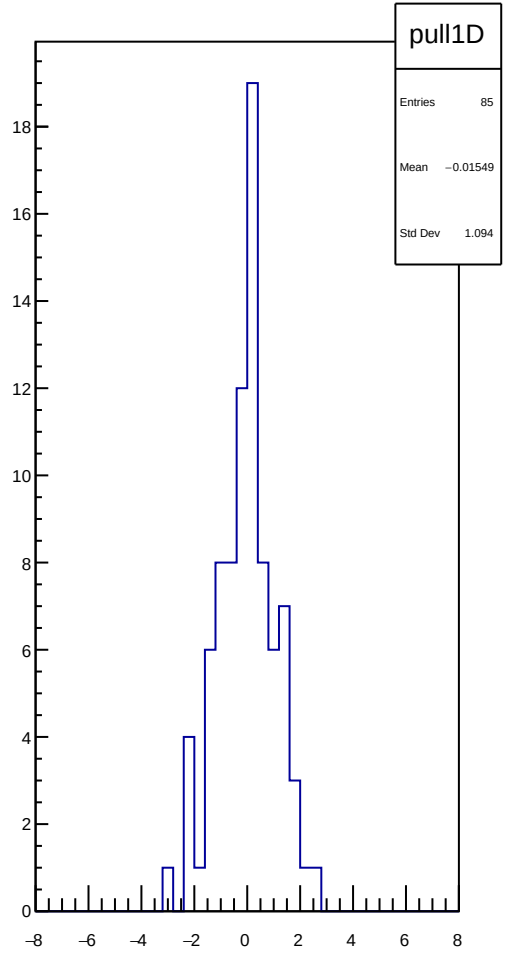

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1302 / 84
p0 1771 ± 1.393
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700

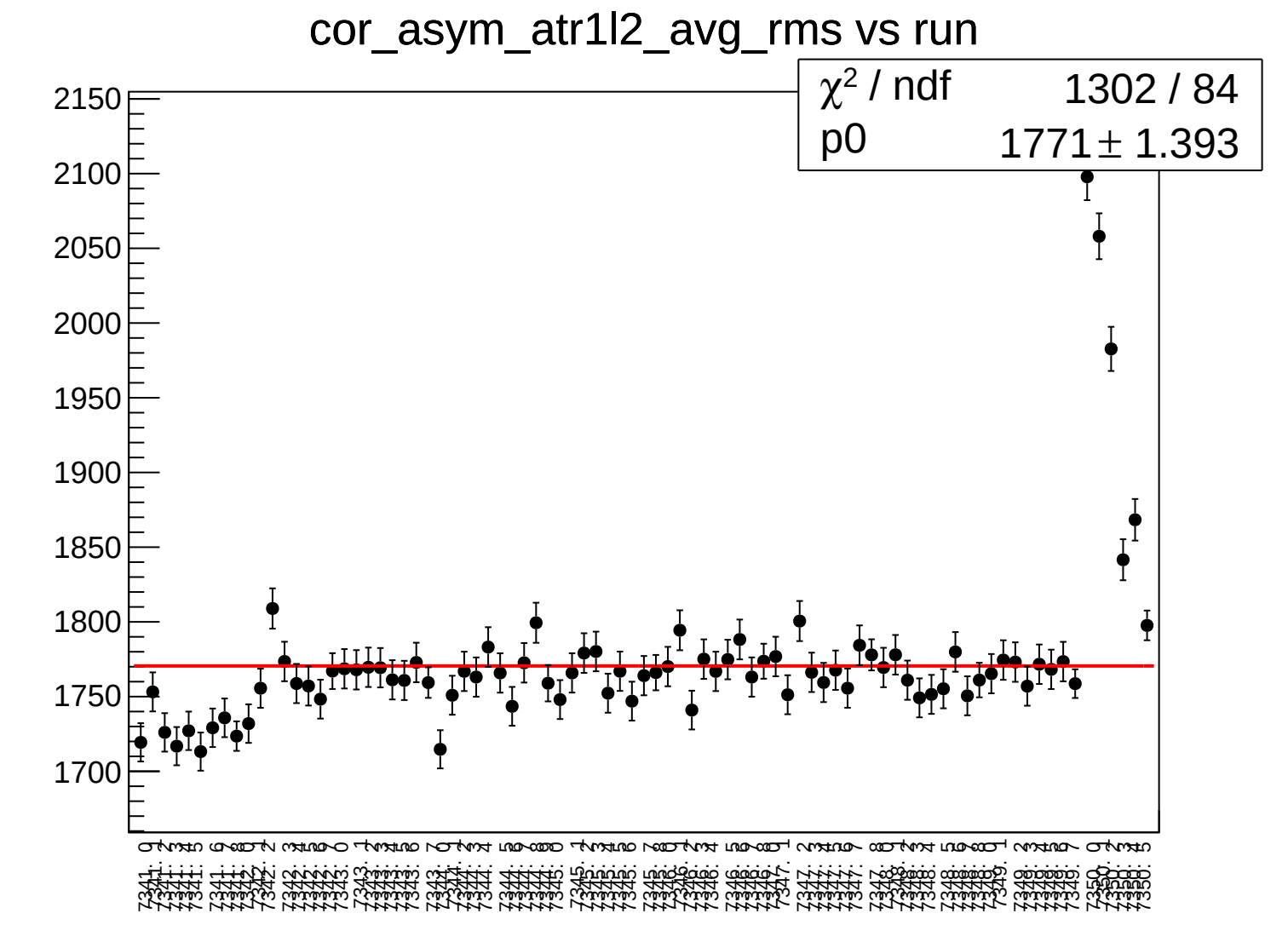

asym_atr1l2_avg_reg_correction_mean vs run
χ^2 / ndf 73.32 / 84
p0 −4490 ± 7701
×10^3
200
100
0
−100
−200
pull
Entries 85
Mean −109.6
Std Dev 0

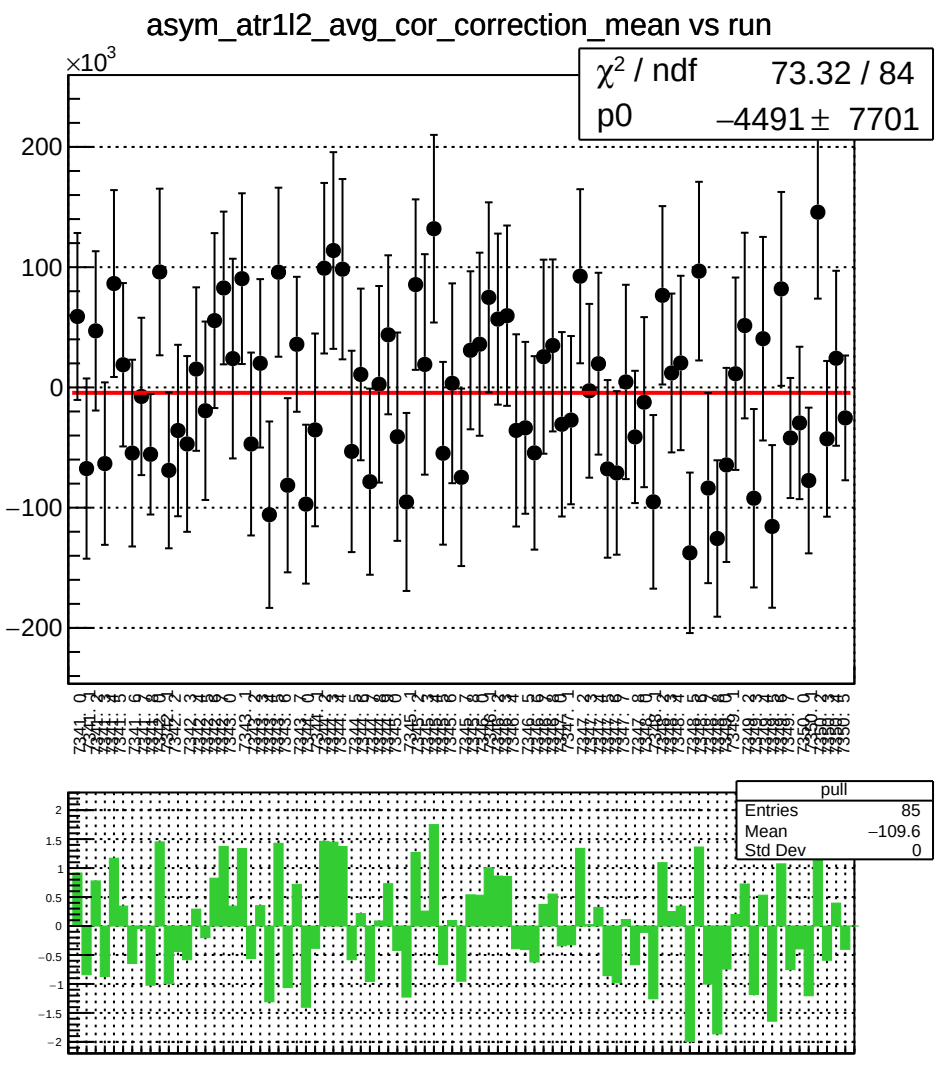

pull1D
Entries 85
Mean 0.02
Std Dev 0.9286
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

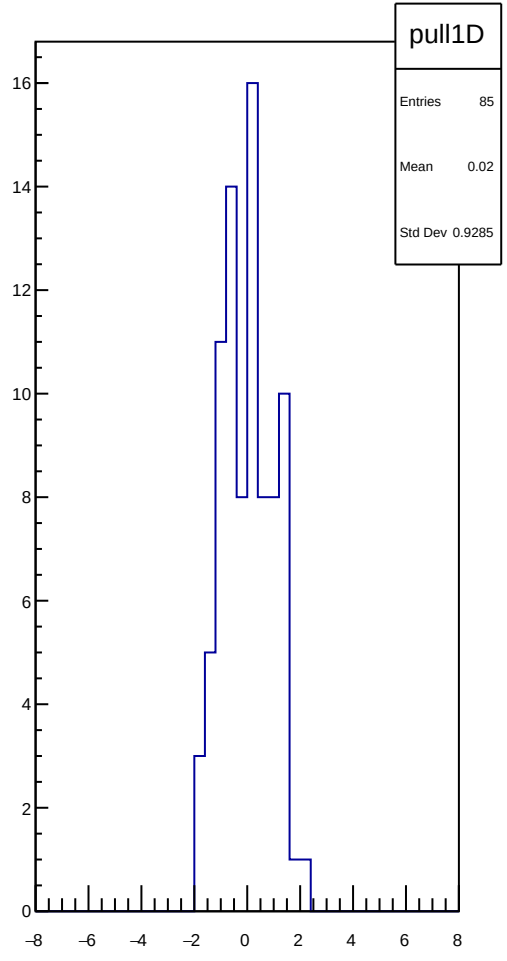

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 9374 / 84
p0 6903 ± 5.445
9000
8500
8000
7500
7000
6500
6000
5500

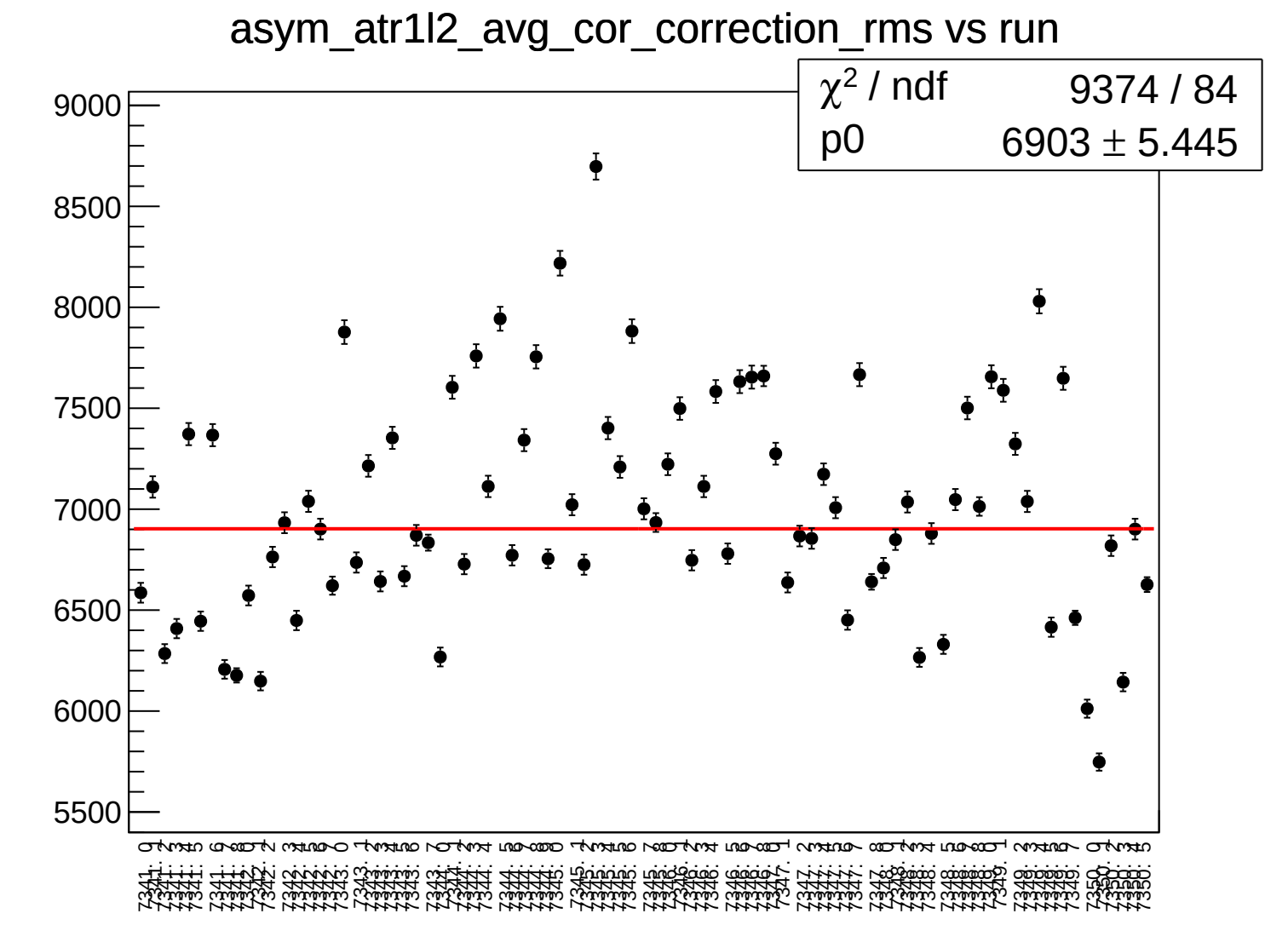

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 101.8 / 84
p0 4270 ± 1970
pull
Entries 85
Mean −95.79
Std Dev 0

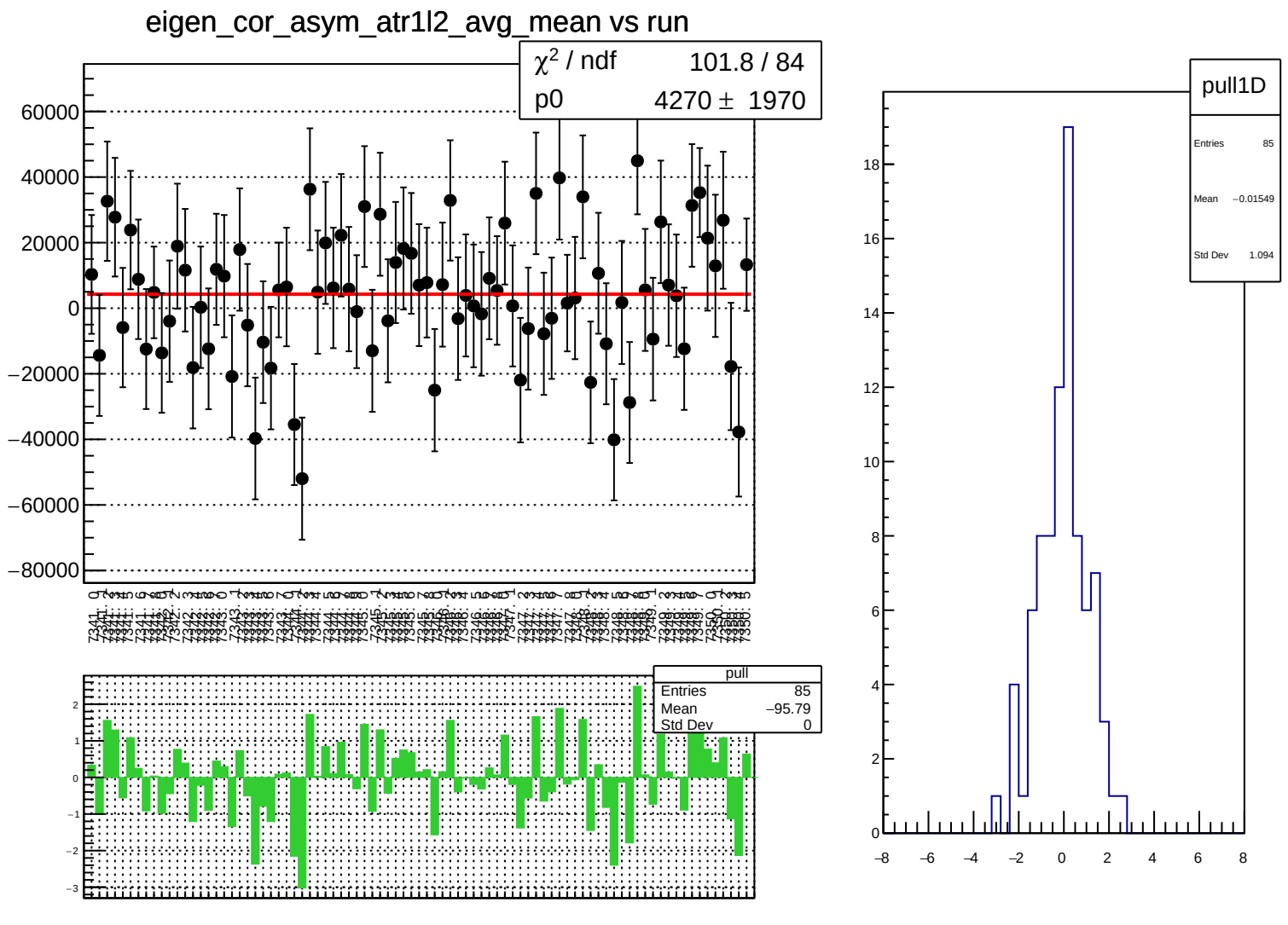

pull1D
Entries 85
Mean −0.01549
Std Dev 1.094

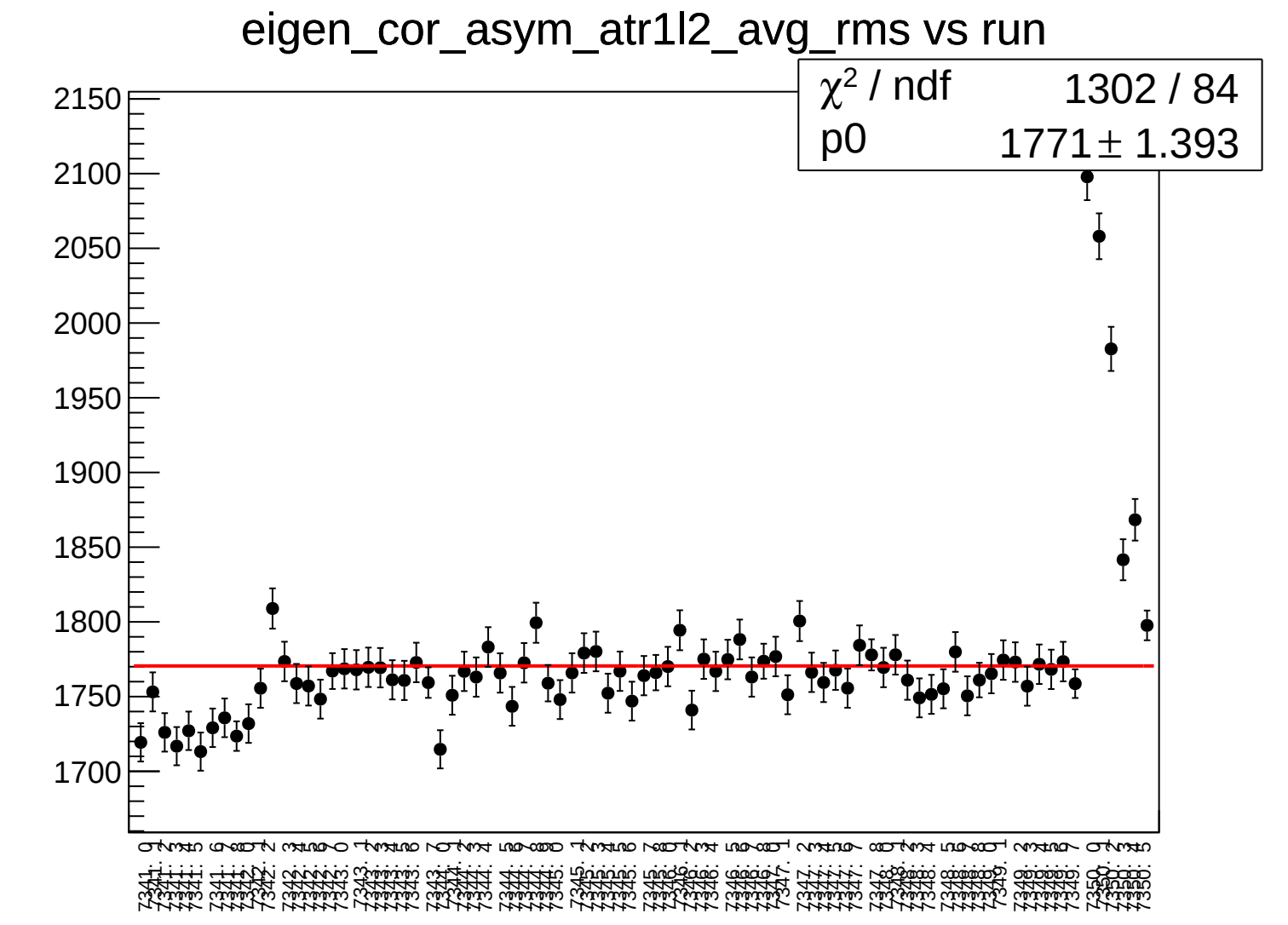

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 1302 / 84
p0 1771 ± 1.393
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700

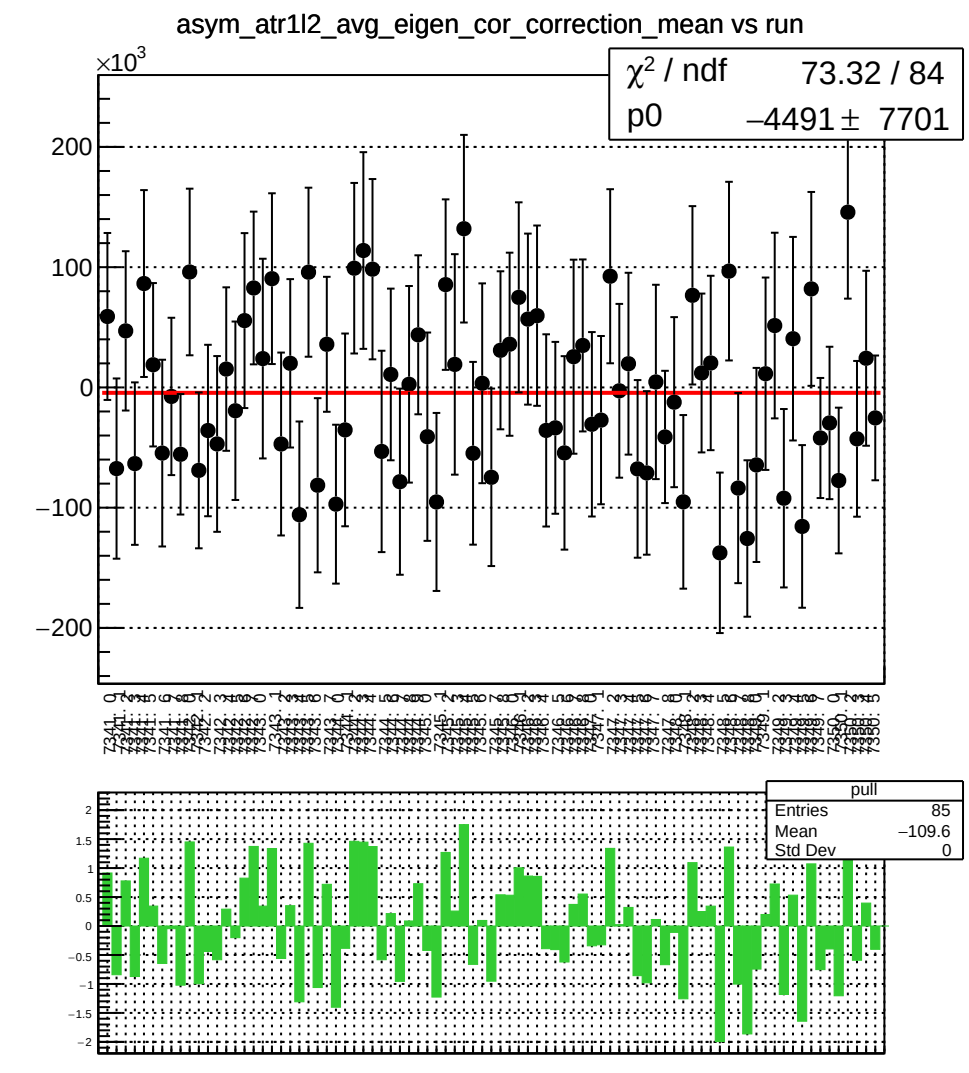

asym_atr1l2_avg_cor_correction_mean vs run
χ² / ndf 73.32 / 84
p0 −4491 ± 7701
×10³
200
100
0
−100
−200
pull
Entries 85
Mean −109.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

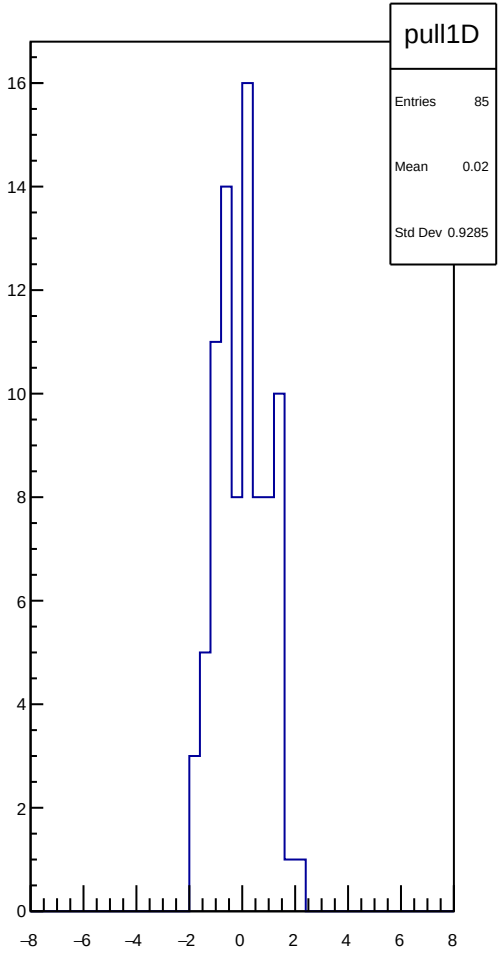

pull1D
Entries 85
Mean 0.02
Std Dev 0.9285
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

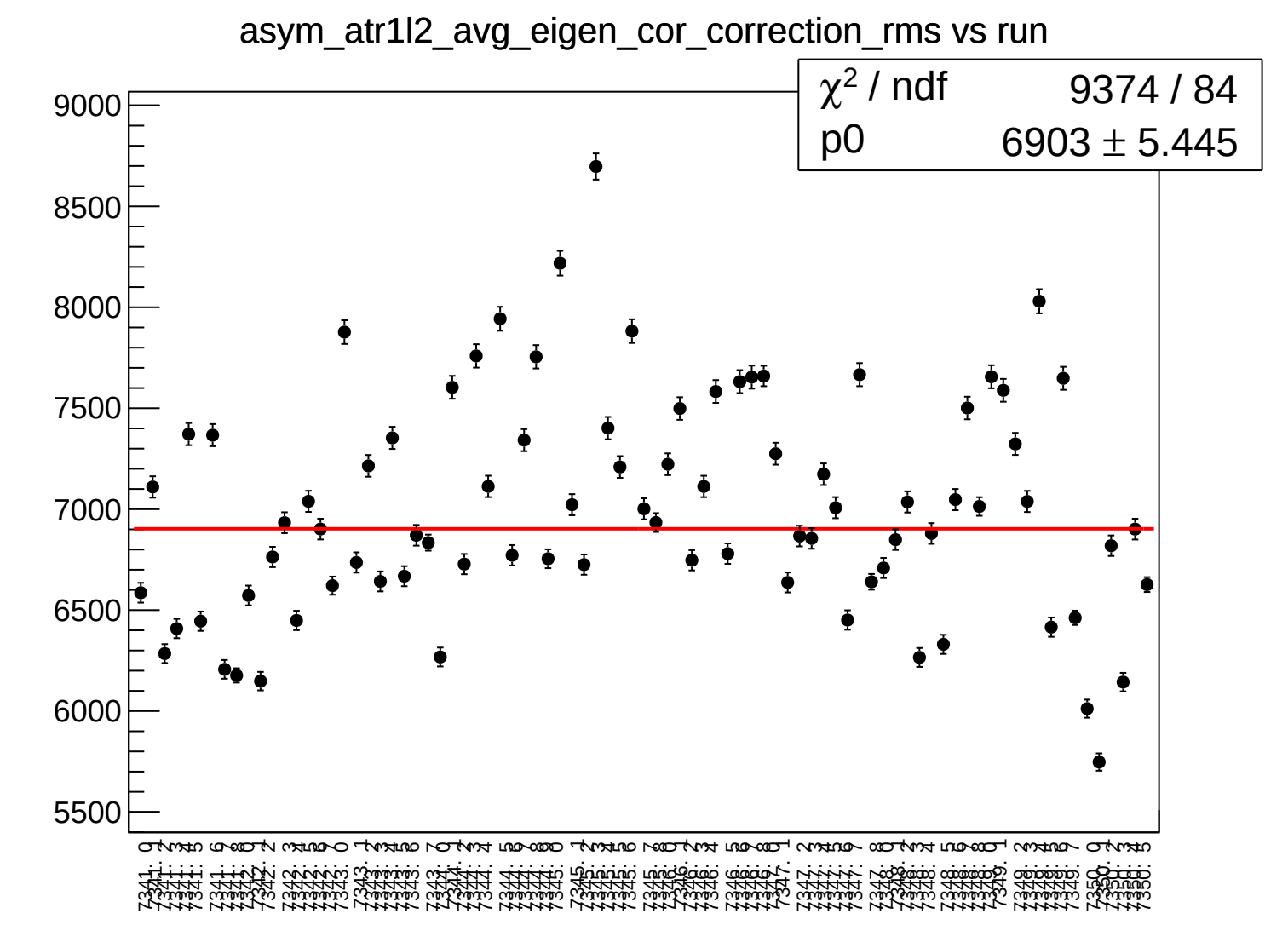

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 9374 / 84
p0 6903 ± 5.445
9000
8500
8000
7500
7000
6500
6000
5500

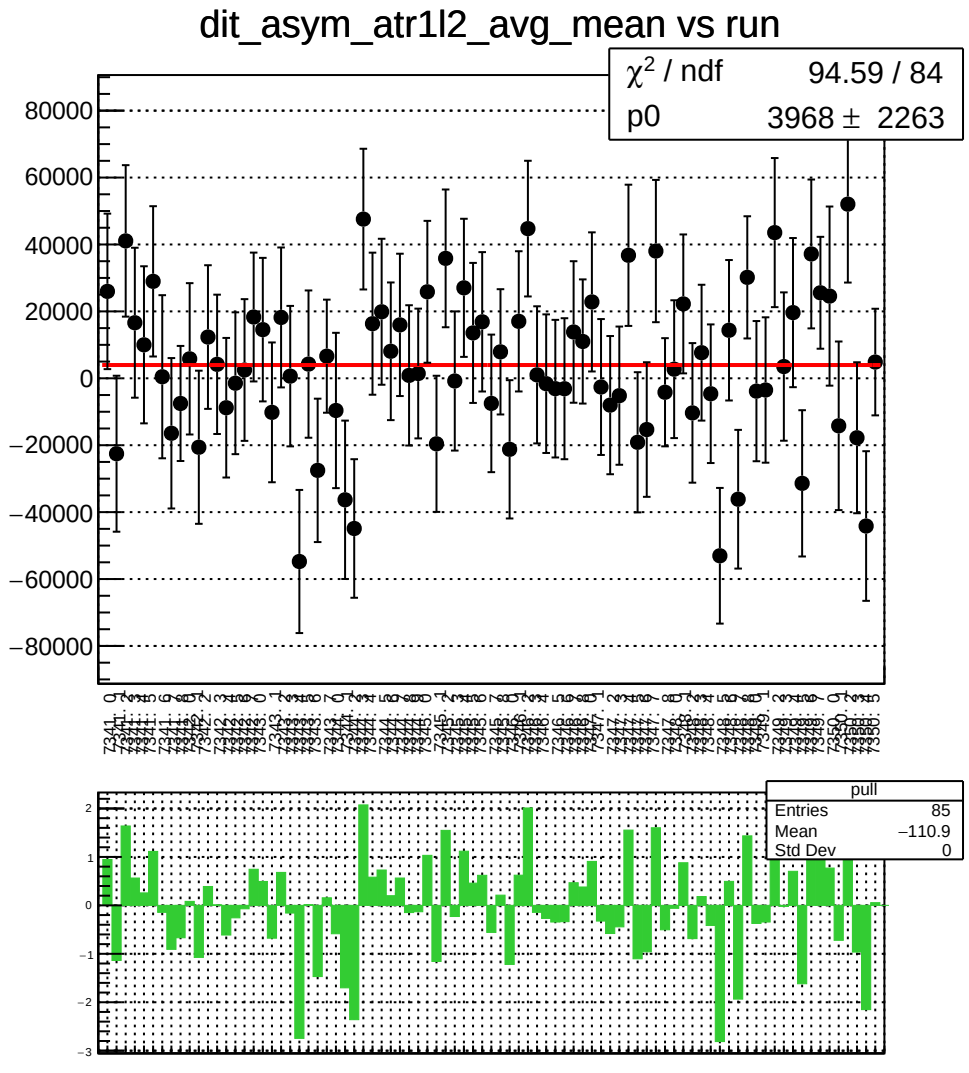

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 101.8 / 84
p0 4270 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −95.79
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.01549
Std Dev 1.094
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

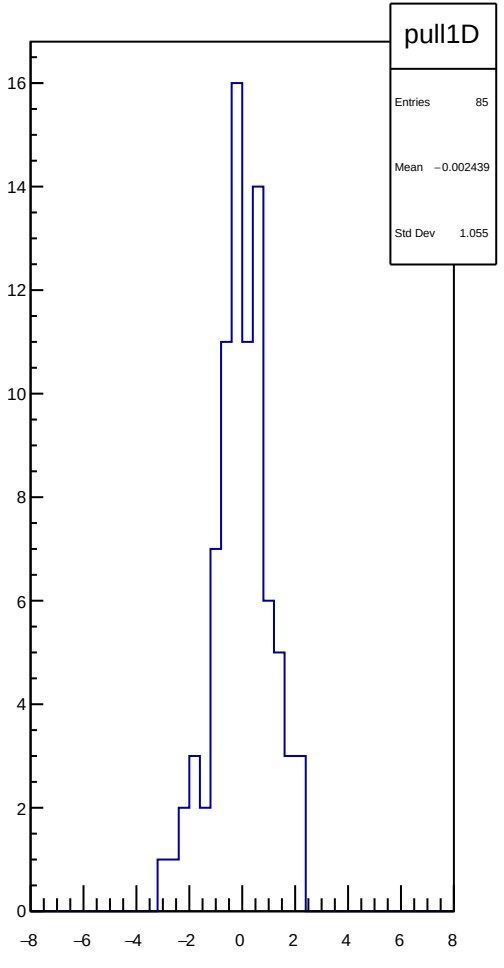

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 1302 / 84
p0 1771 ± 1.393
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700

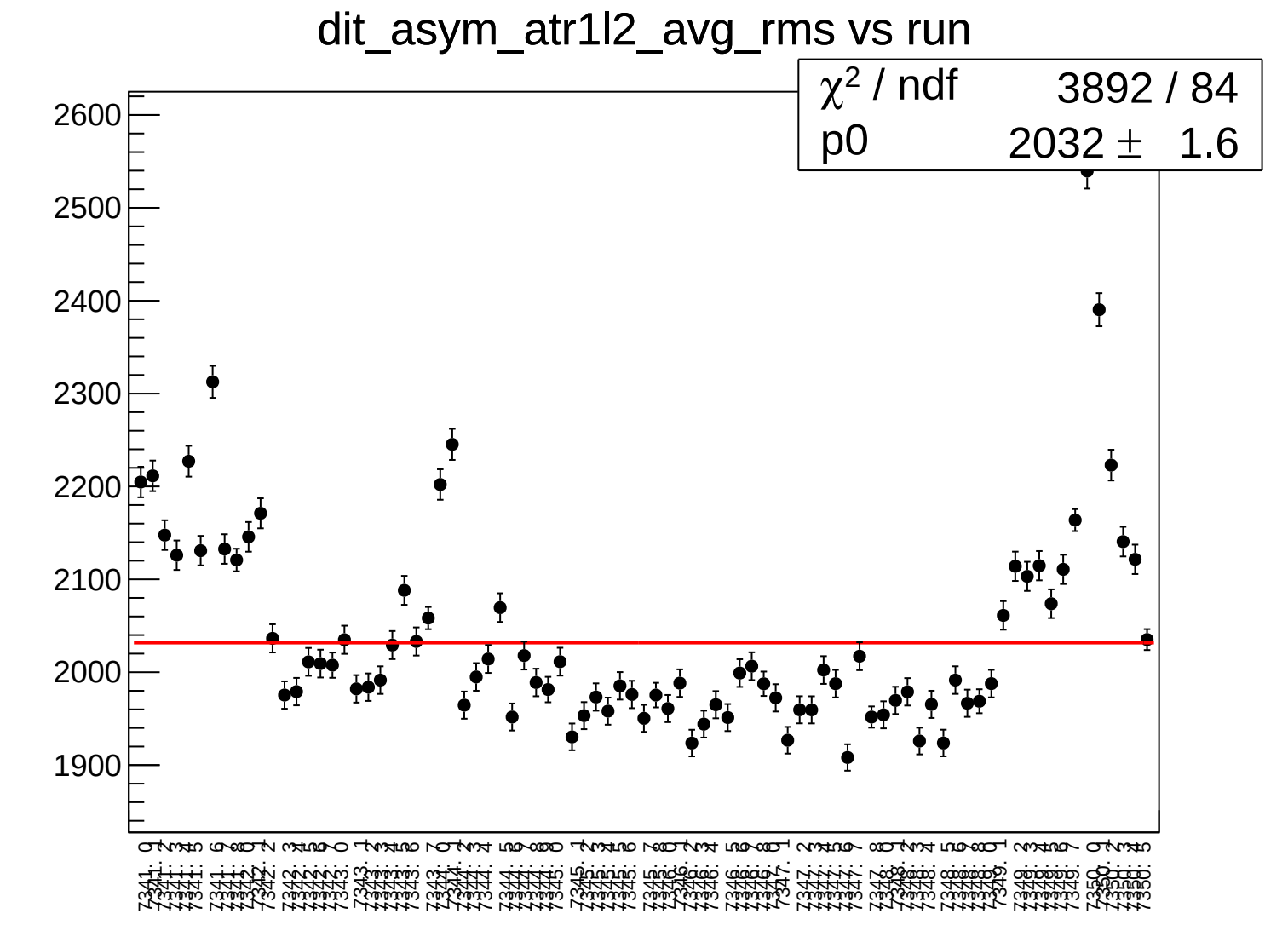

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 73.32 / 84
p0 −4491 ± 7701
200
100
0
−100
−200
pull
Entries 85
Mean −109.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

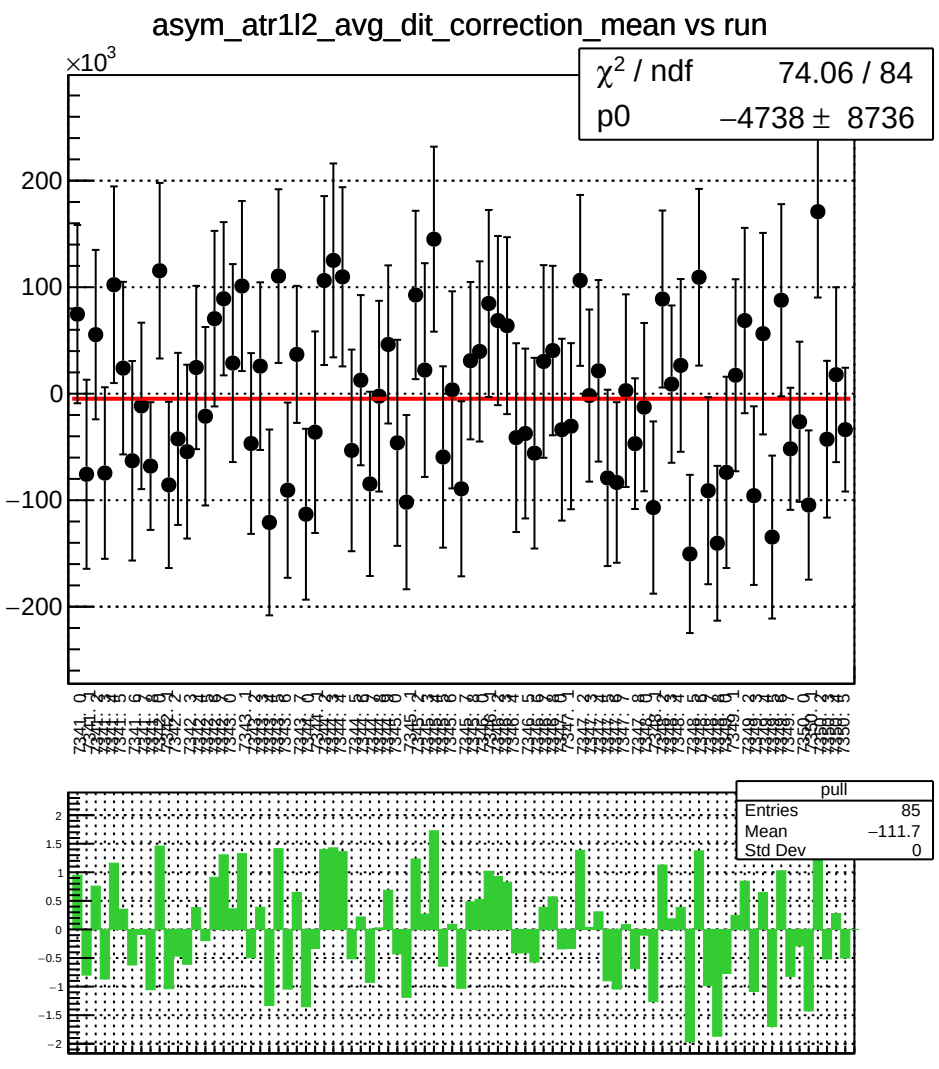

pull1D
Entries 85
Mean 0.02
Std Dev 0.9285
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

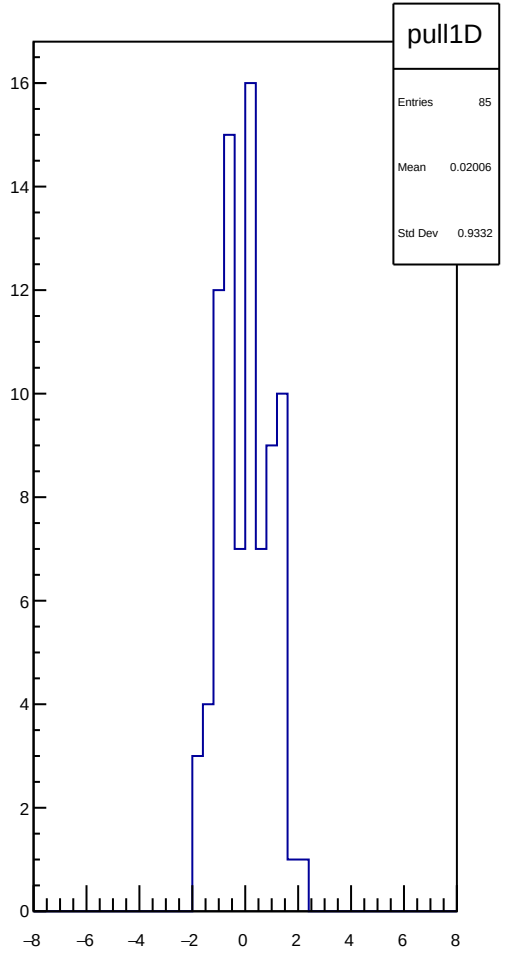

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9374 / 84
p0 6903 ± 5.445
9000
8500
8000
7500
7000
6500
6000
5500

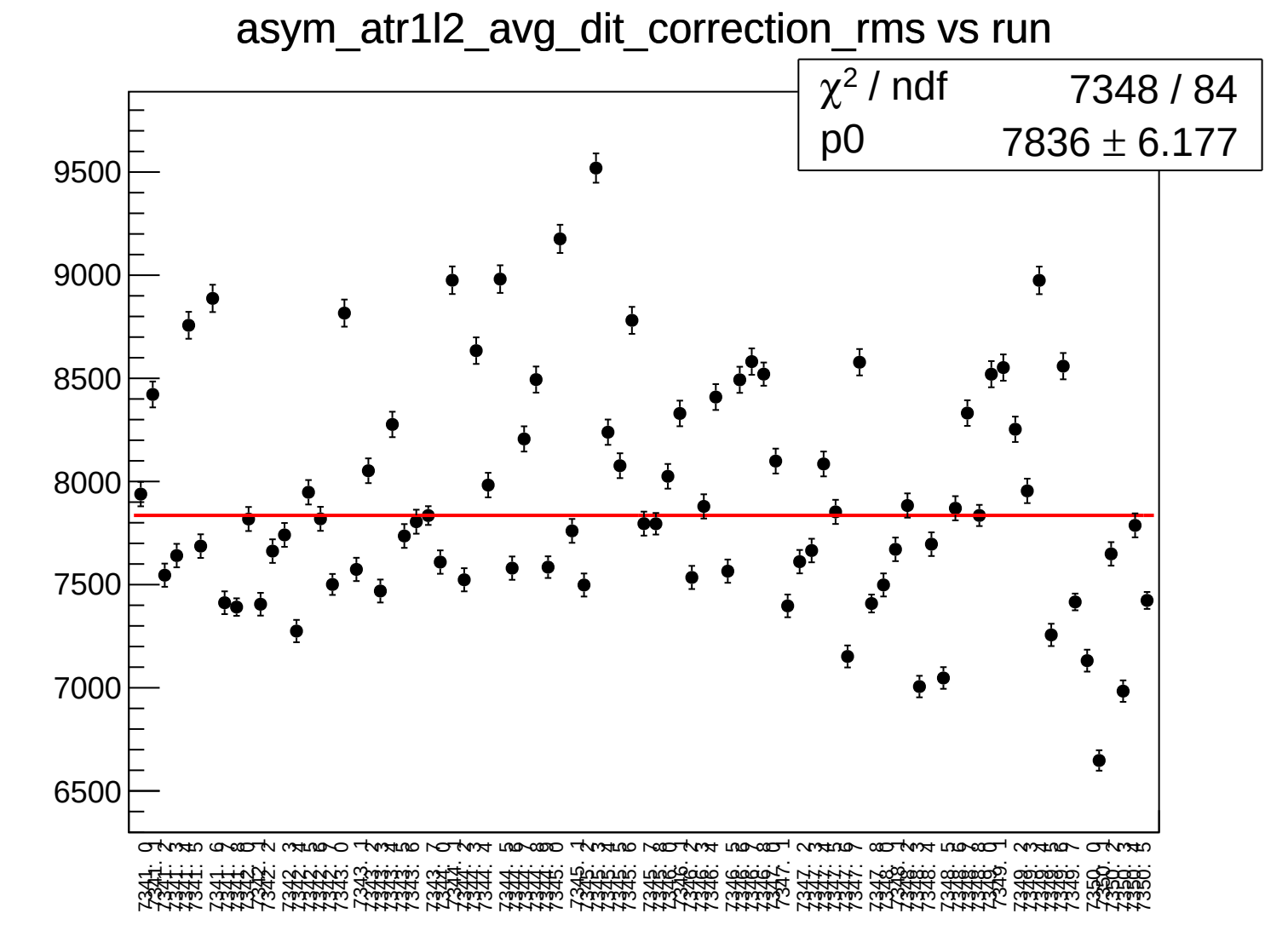

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 94.59 / 84
p0 3968 ± 2263
pull
Entries 85
Mean −110.9
Std Dev 0

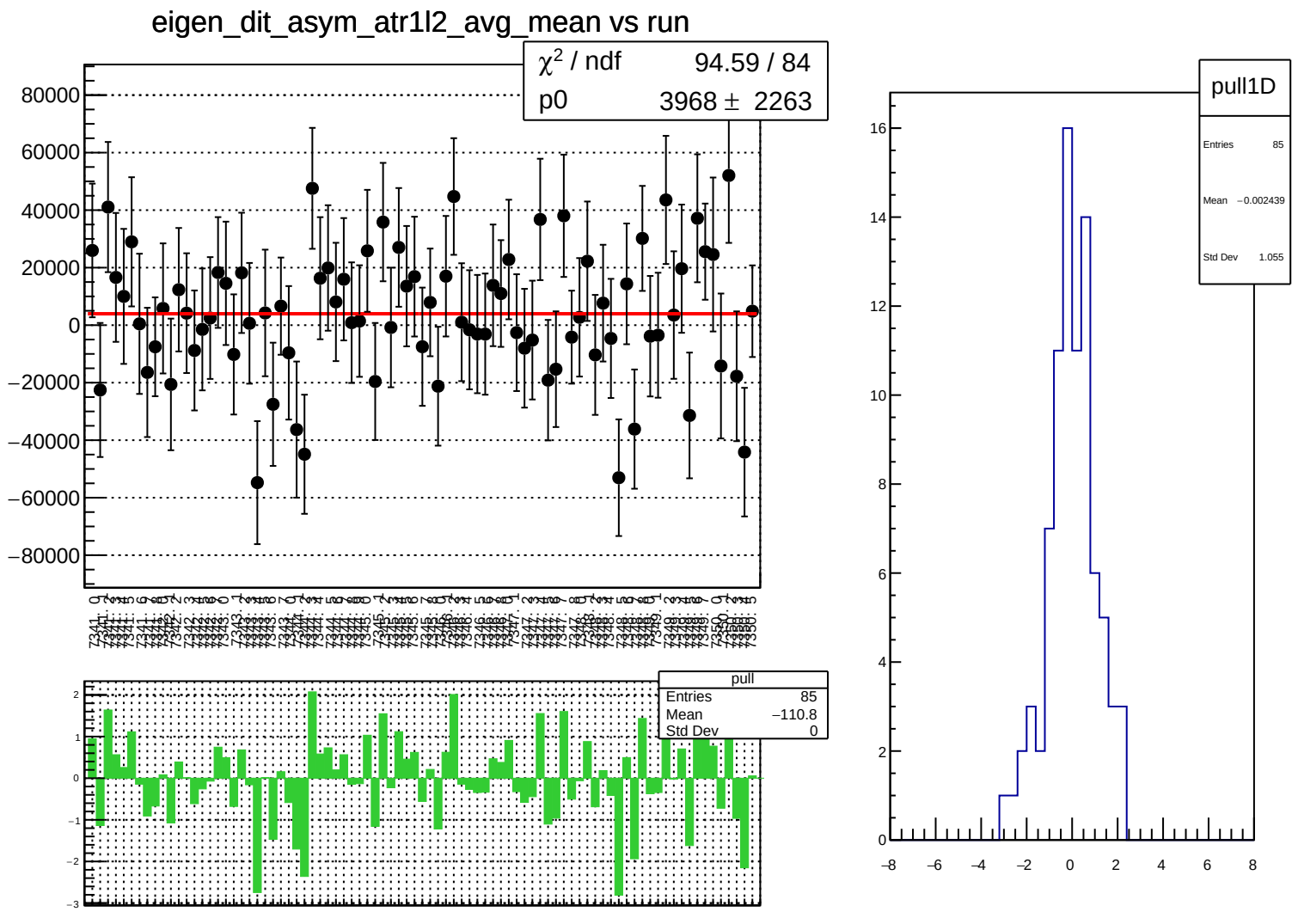

pull1D
Entries 85
Mean −0.002439
Std Dev 1.055

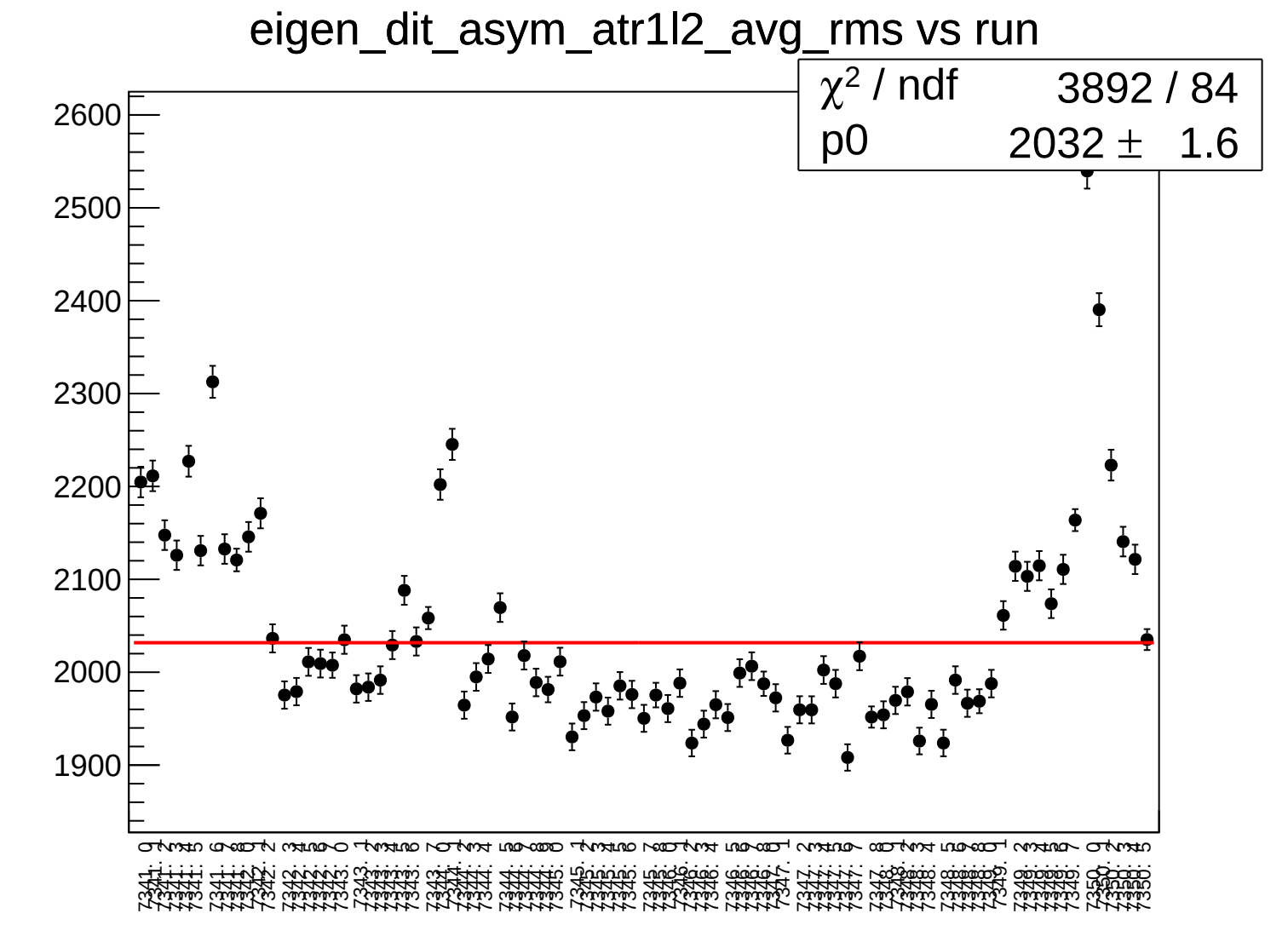

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 3892 / 84
p0 2032 ± 1.6
2600
2500
2400
2300
2200
2100
2000
1900

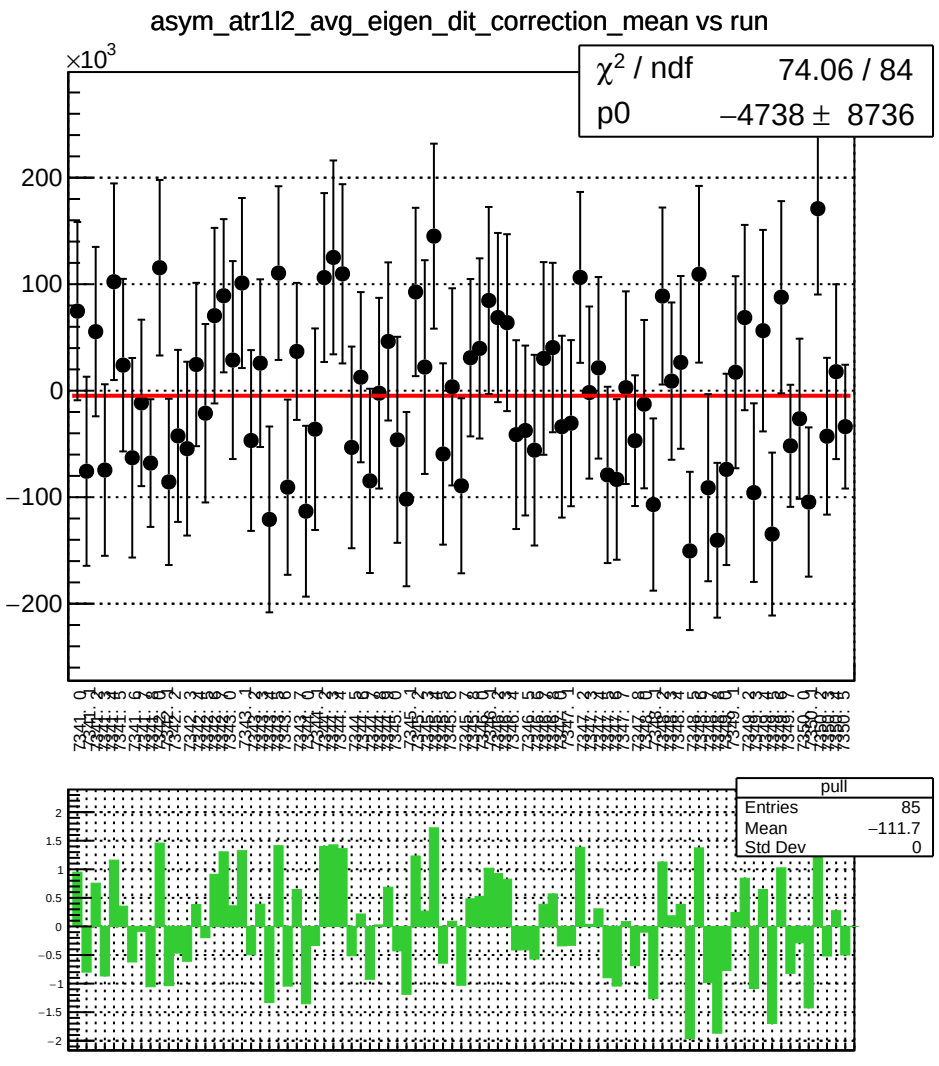

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 74.06 / 84
p0 −4738 ± 8736
200
100
0
−100
−200
pull
Entries 85
Mean −111.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

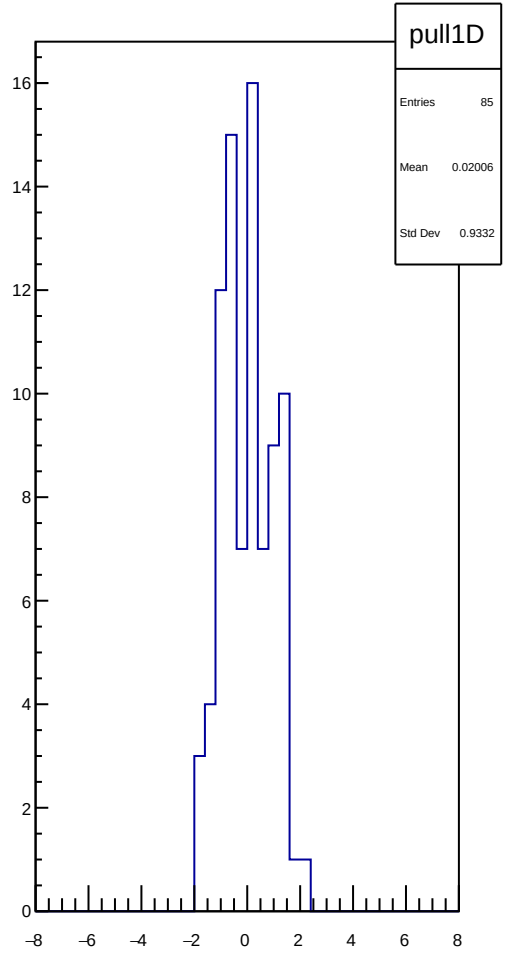

pull1D
Entries 85
Mean 0.02006
Std Dev 0.9332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

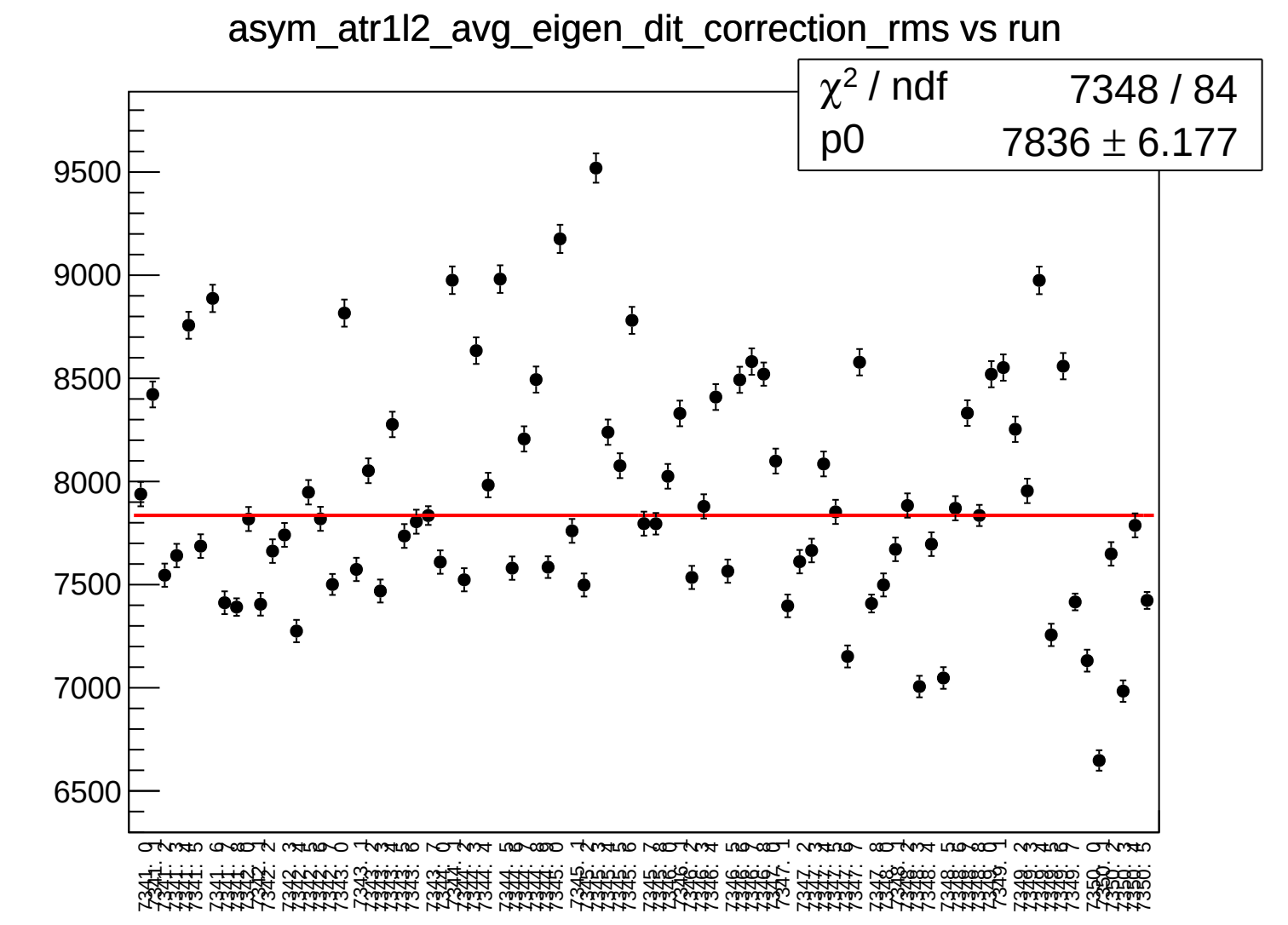

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 7348 / 84
p0 7836 ± 6.177
9500
9000
8500
8000
7500
7000
6500

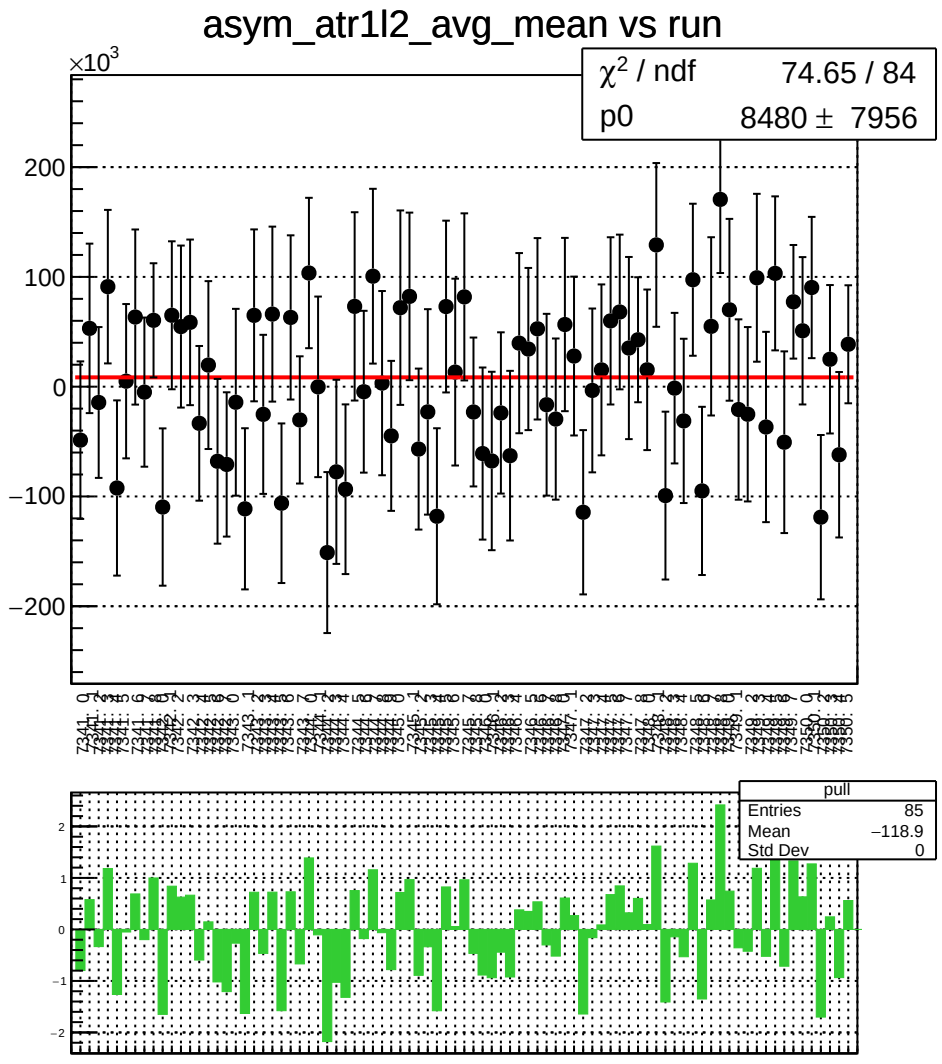

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 94.59 / 84
p0 3968 ± 2263
pull
Entries 85
Mean −110.8
Std Dev 0
pull1D
Entries 85
Mean −0.002439
Std Dev 1.055

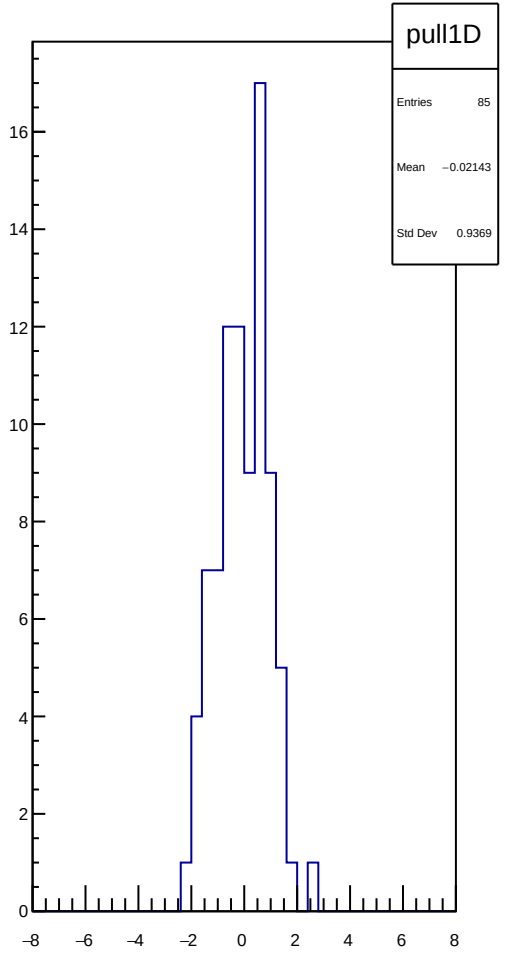

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 3892 / 84
p0 2032 ± 1.6
2600
2500
2400
2300
2200
2100
2000
1900

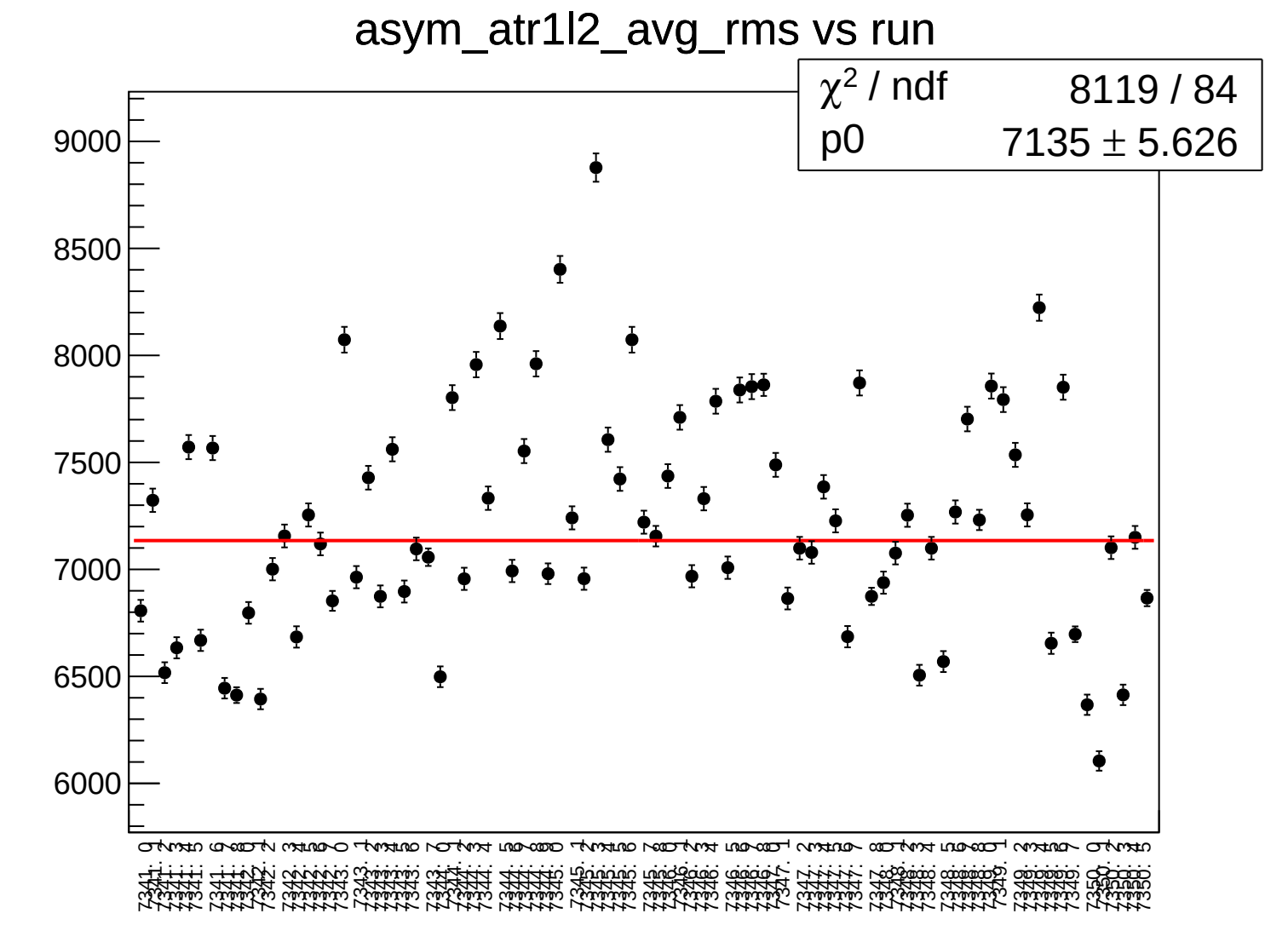

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.06 / 84
p0 −4738 ± 8736
200
100
0
−100
−200
pull
Entries 85
Mean −111.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

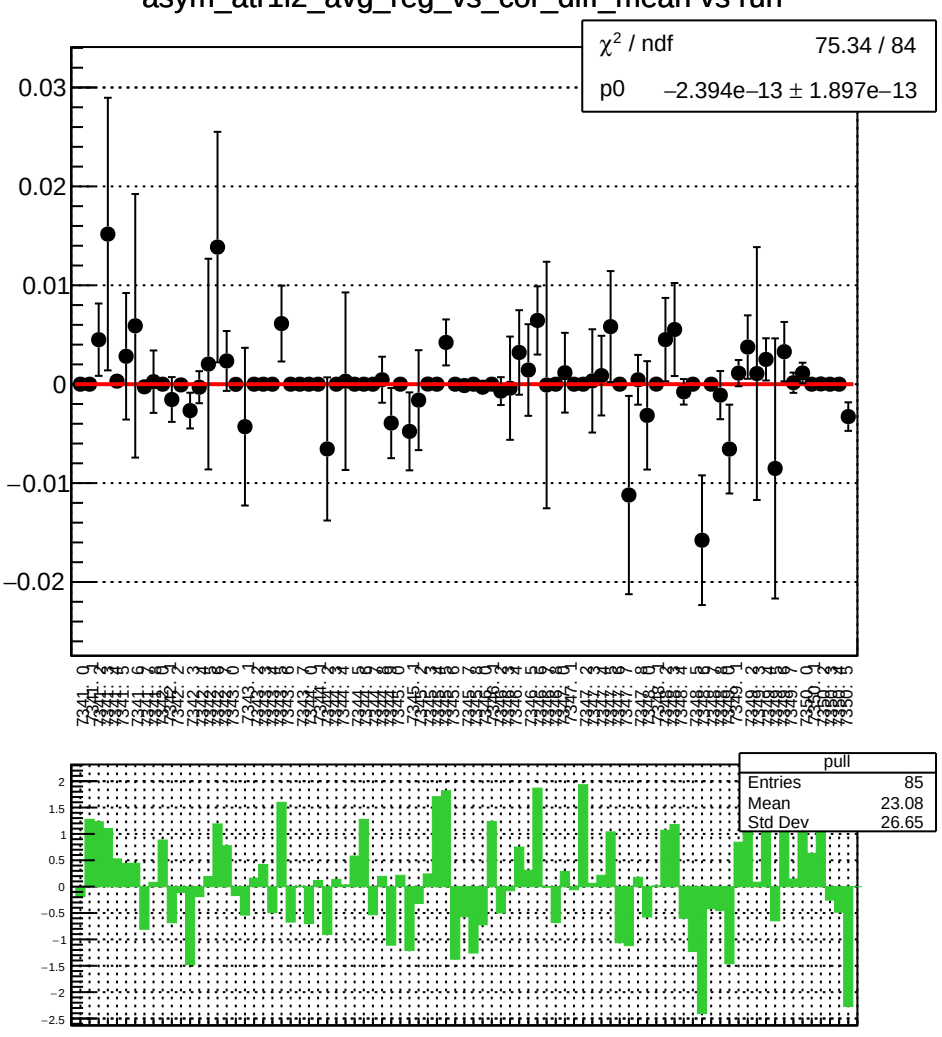

pull1D
Entries 85
Mean 0.02006
Std Dev 0.9332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

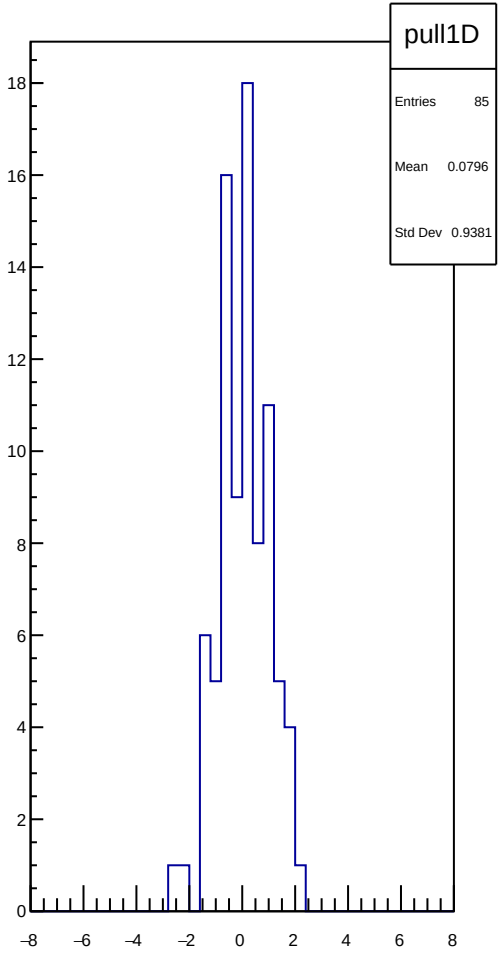

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7348 / 84
p0 7836 ± 6.177
9500
9000
8500
8000
7500
7000
6500

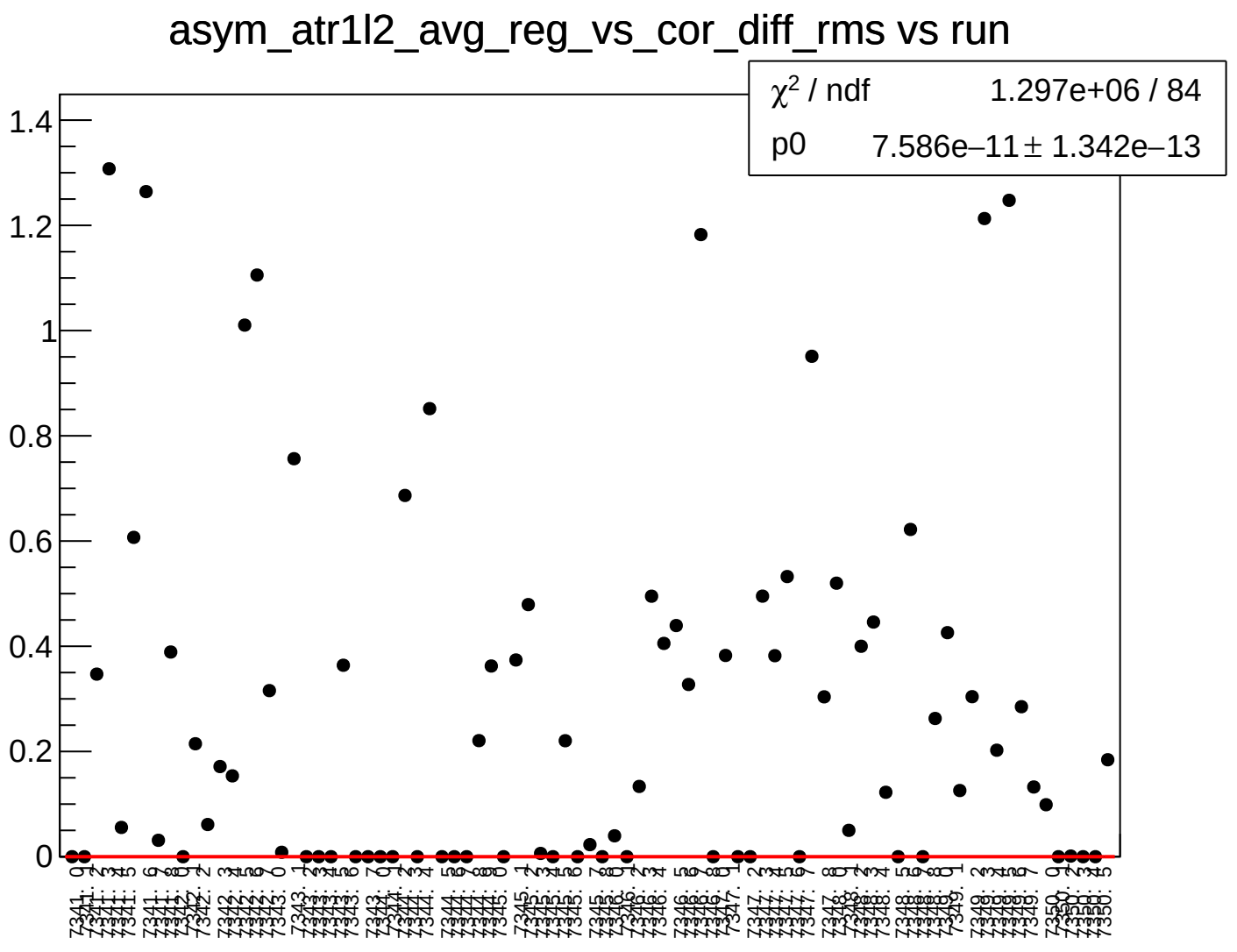

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 74.65 / 84
p0 8480 ± 7956
200
100
0
−100
−200
pull
Entries 85
Mean −118.9
Std Dev 0
2
1
0
−1
−2

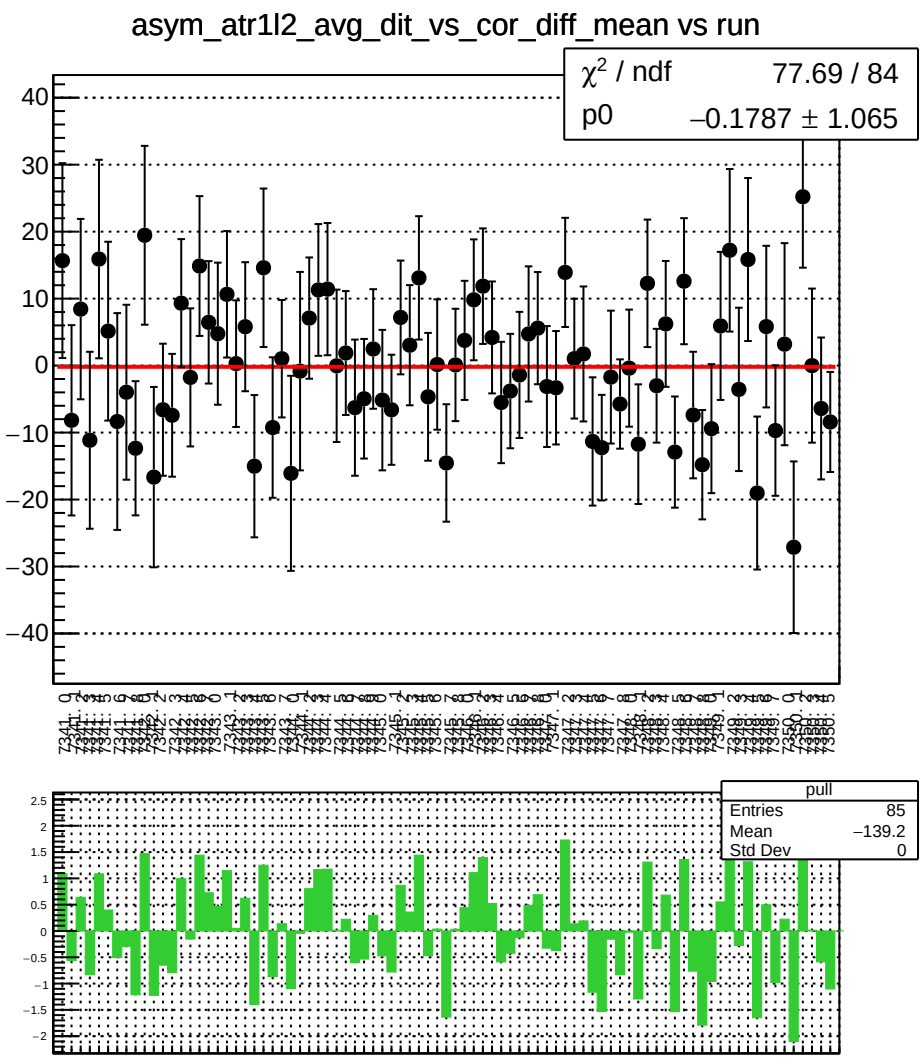

pull1D
Entries 85
Mean −0.02143
Std Dev 0.9369
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

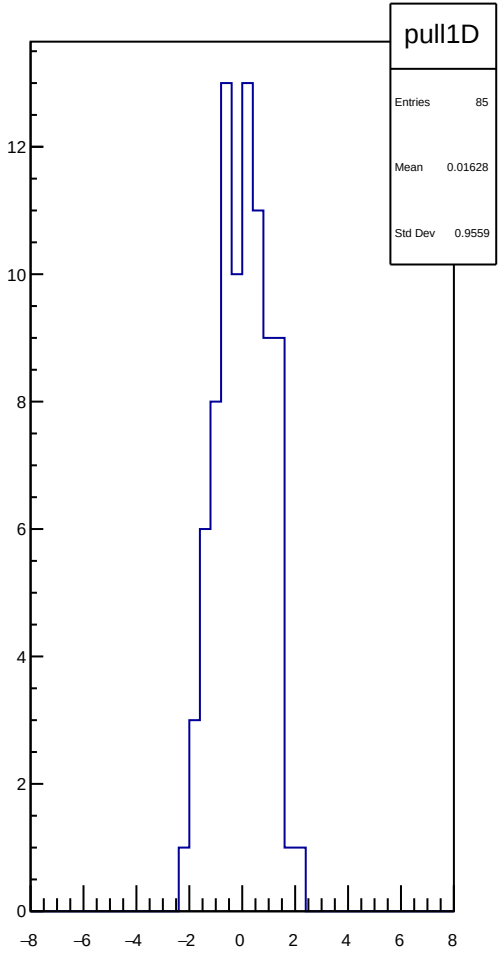

asym_atr1l2_avg_rms vs run
χ² / ndf 8119 / 84
p0 7135 ± 5.626
9000
8500
8000
7500
7000
6500
6000

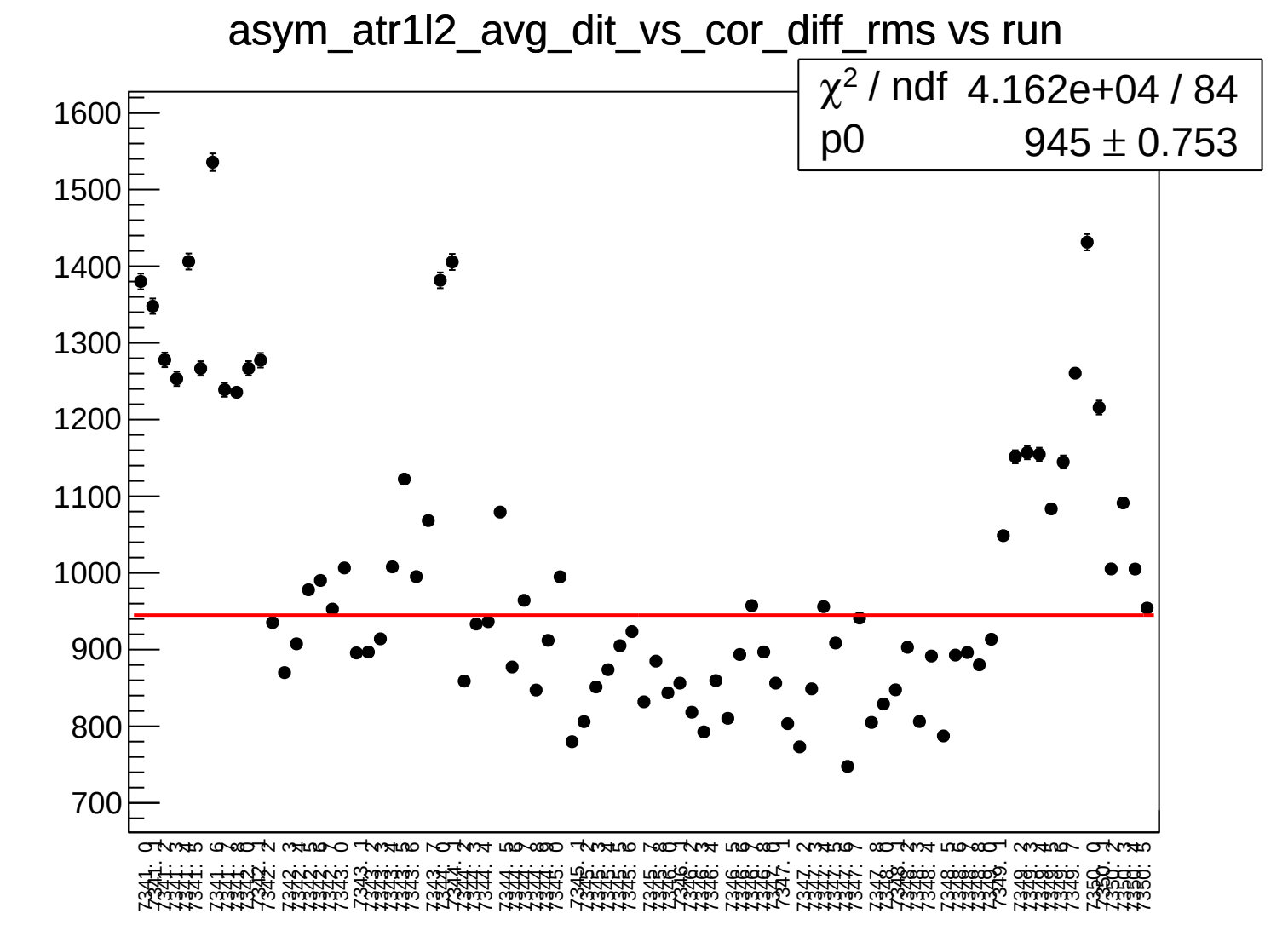

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.34 / 84
p0 −2.394e−13 ± 1.897e−13
pull
Entries 85
Mean 23.08
Std Dev 26.65

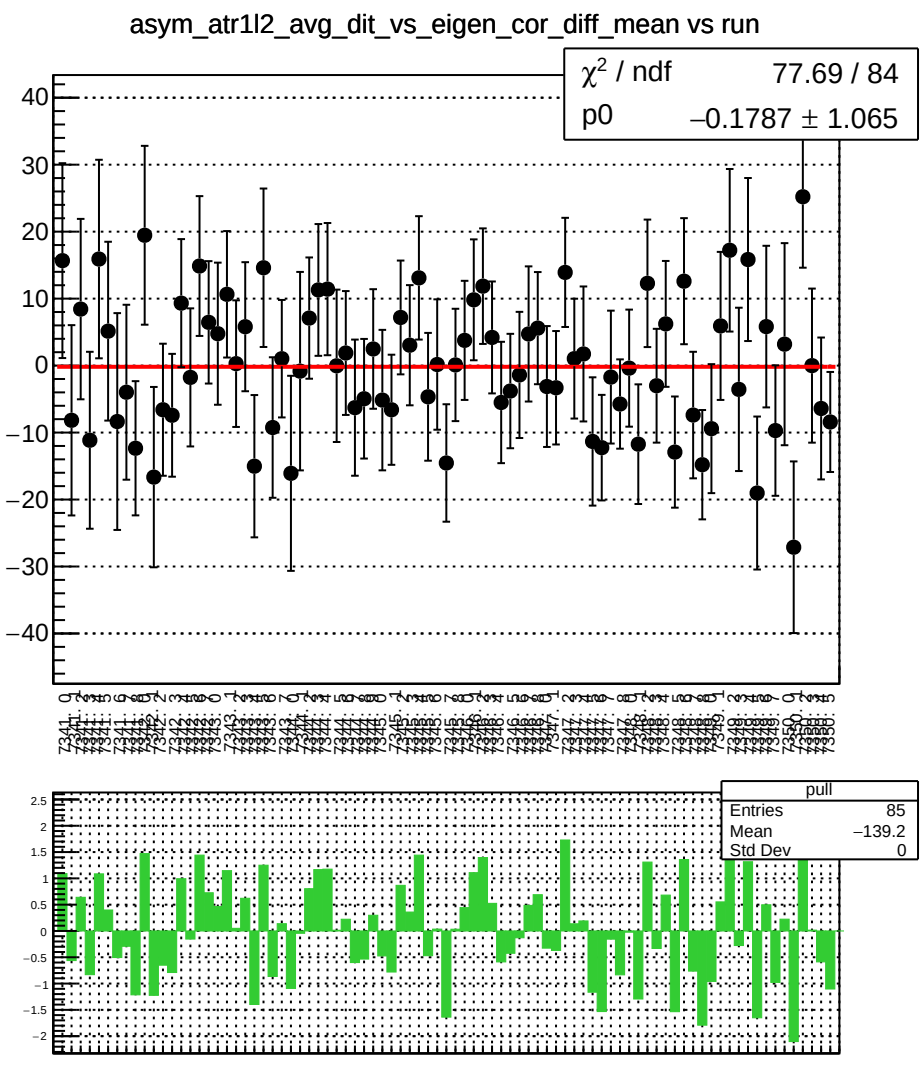

pull1D
Entries 85
Mean 0.0796
Std Dev 0.9381

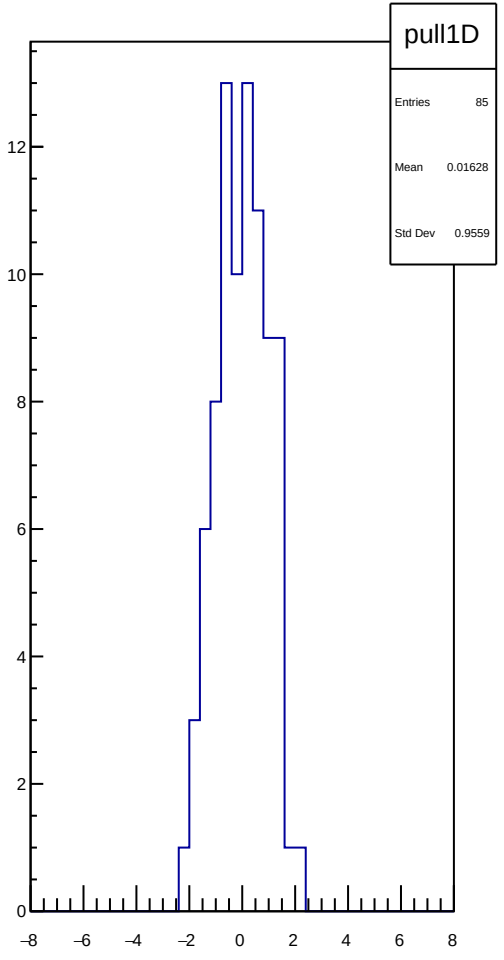

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.297e+06 / 84
p0 7.586e−11 ± 1.342e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

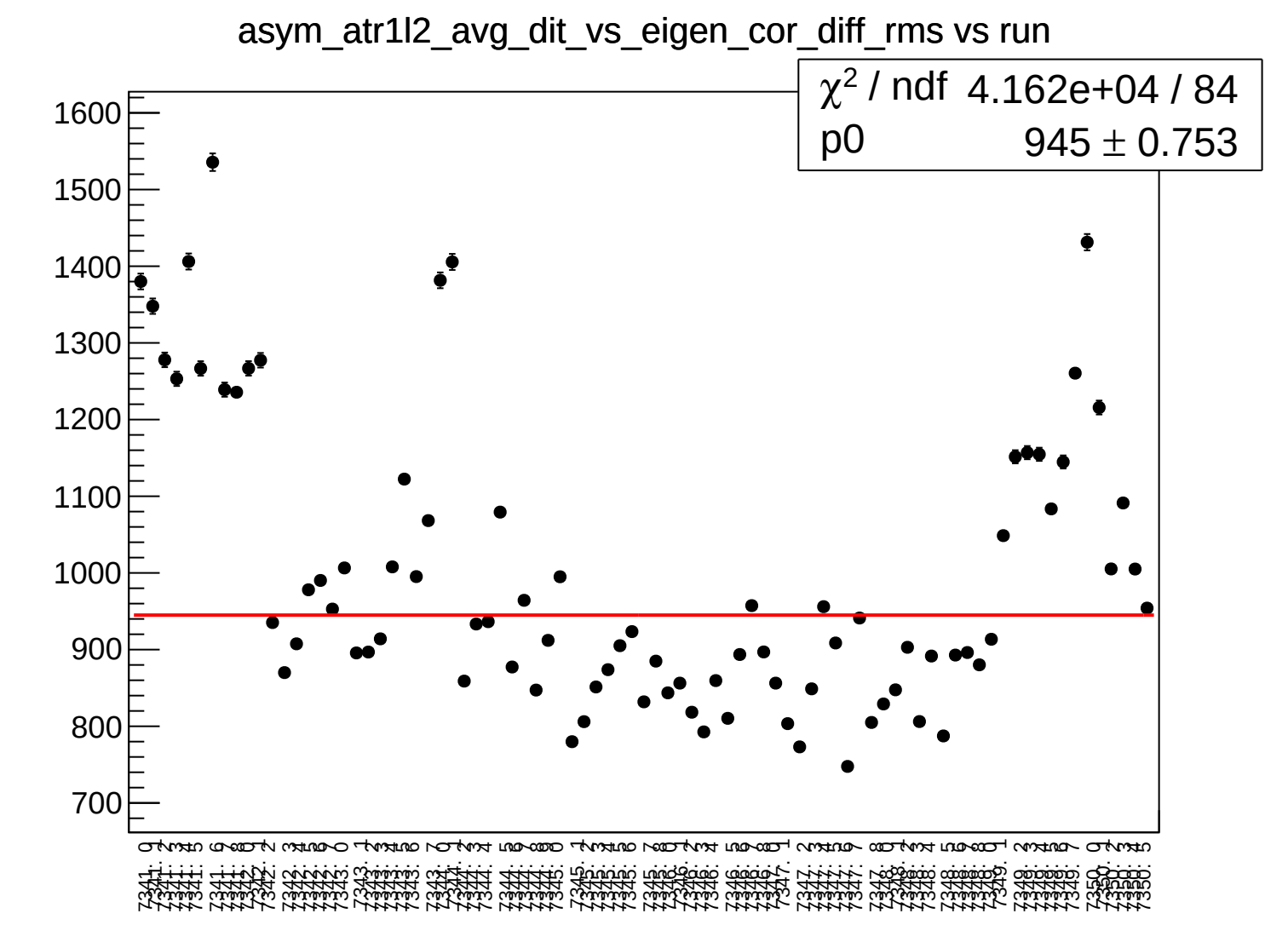

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.69 / 84
p0 −0.1787 ± 1.065
pull
Entries 85
Mean −139.2
Std Dev 0

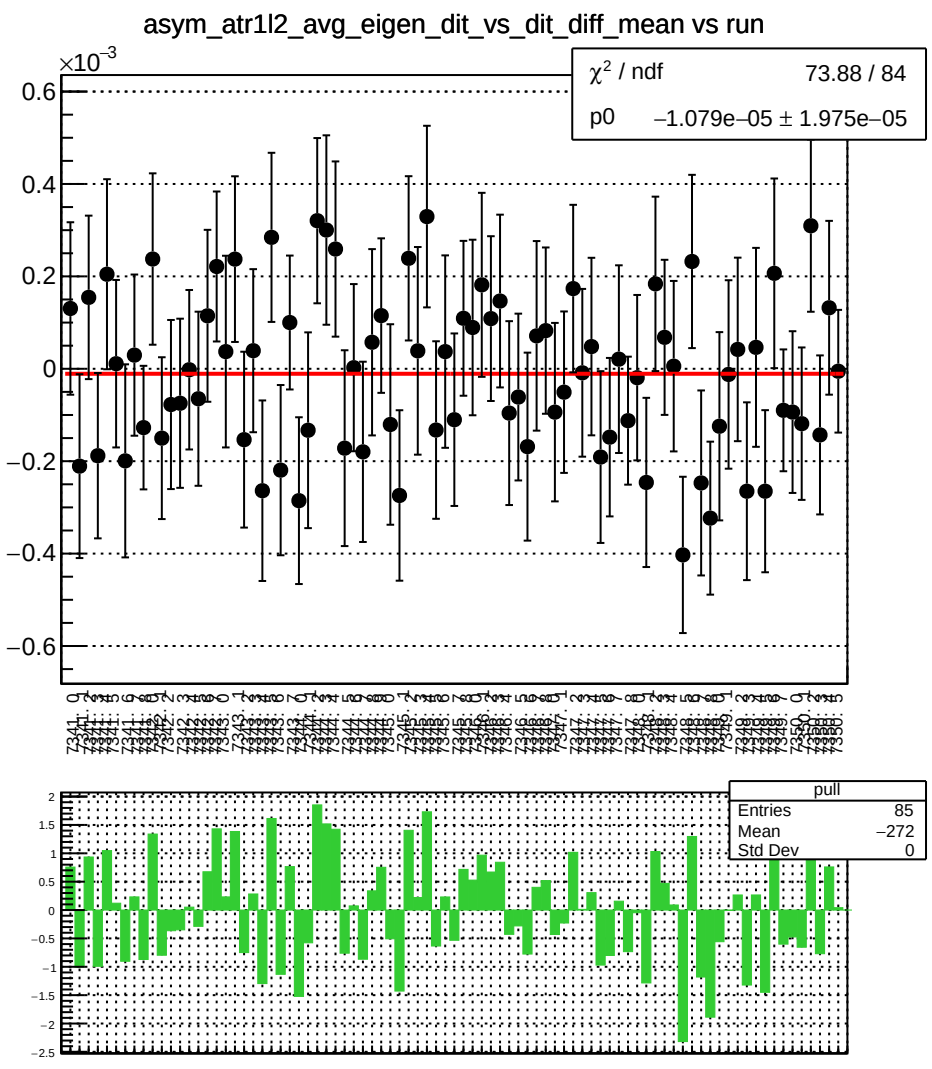

pull1D
Entries 85
Mean 0.01628
Std Dev 0.9559

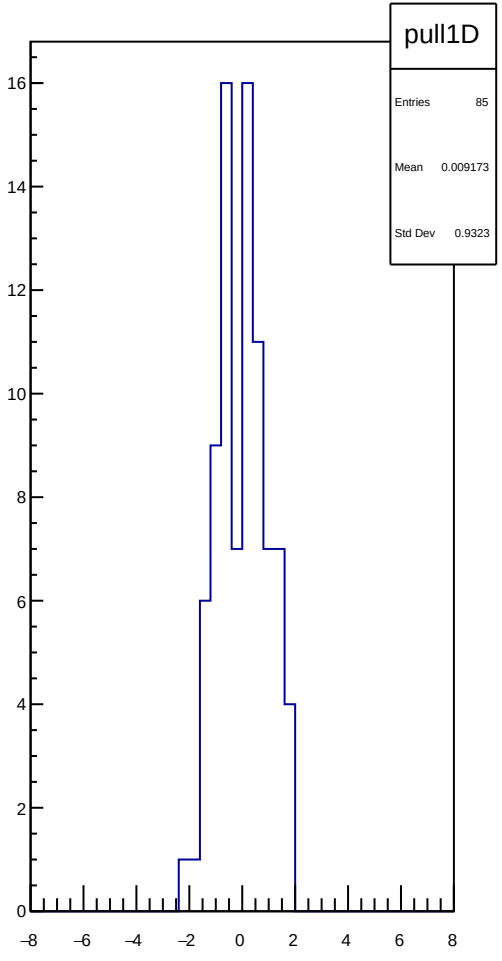

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.162e+04 / 84
p0 945 ± 0.753
1600
1500
1400
1300
1200
1100
1000
900
800
700

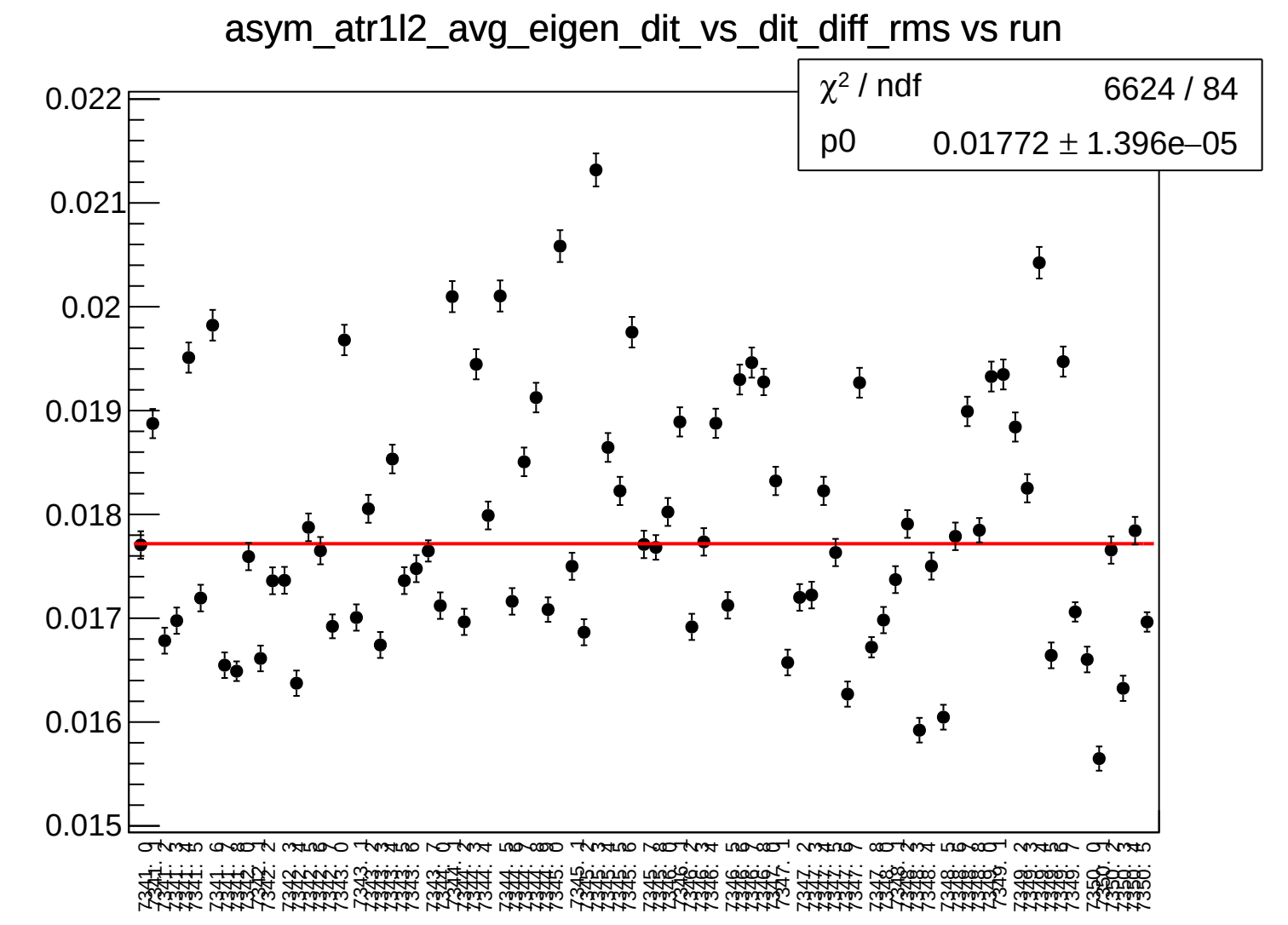

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.69 / 84
p0 −0.1787 ± 1.065
pull
Entries 85
Mean −139.2
Std Dev 0

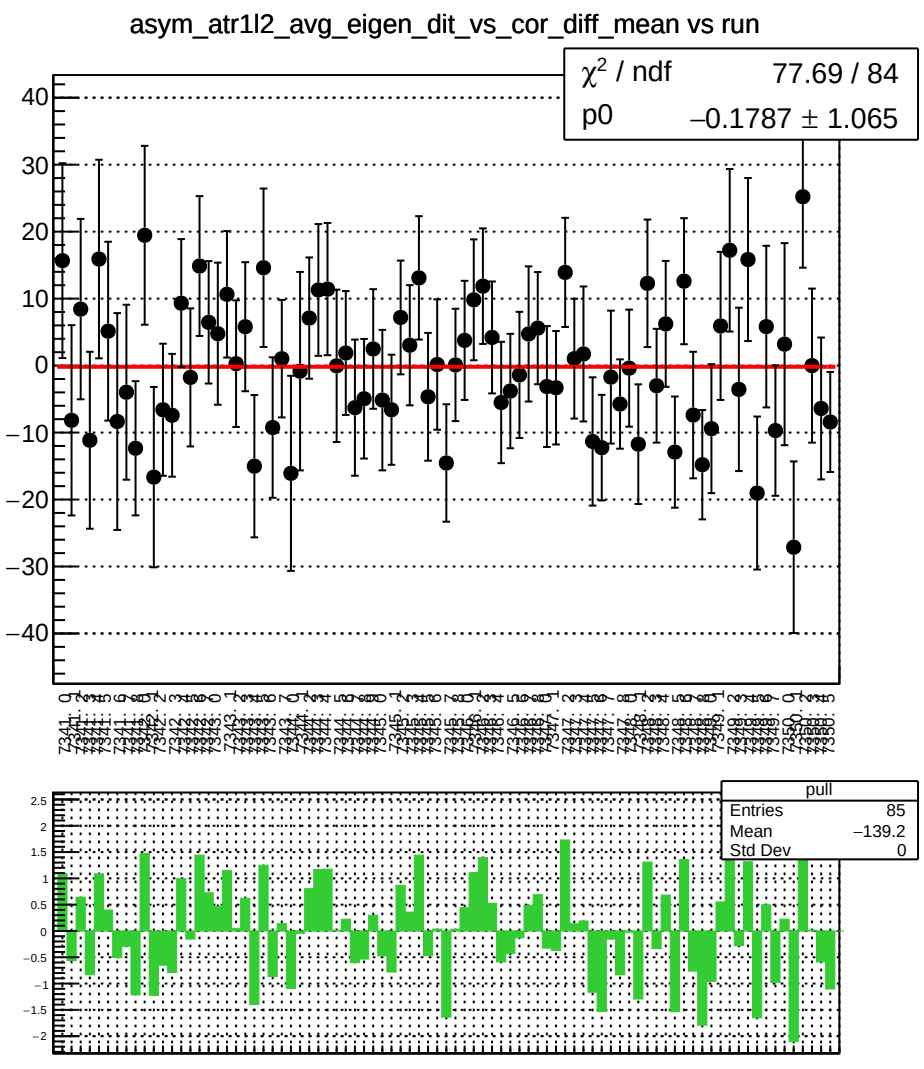

pull1D
Entries 85
Mean 0.01628
Std Dev 0.9559

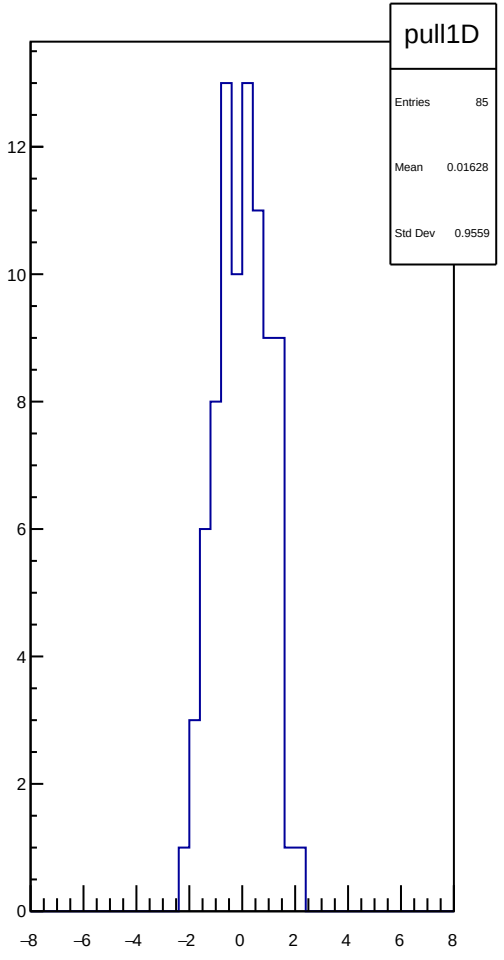

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.162e+04 / 84
p0 945 ± 0.753
1600
1500
1400
1300
1200
1100
1000
900
800
700

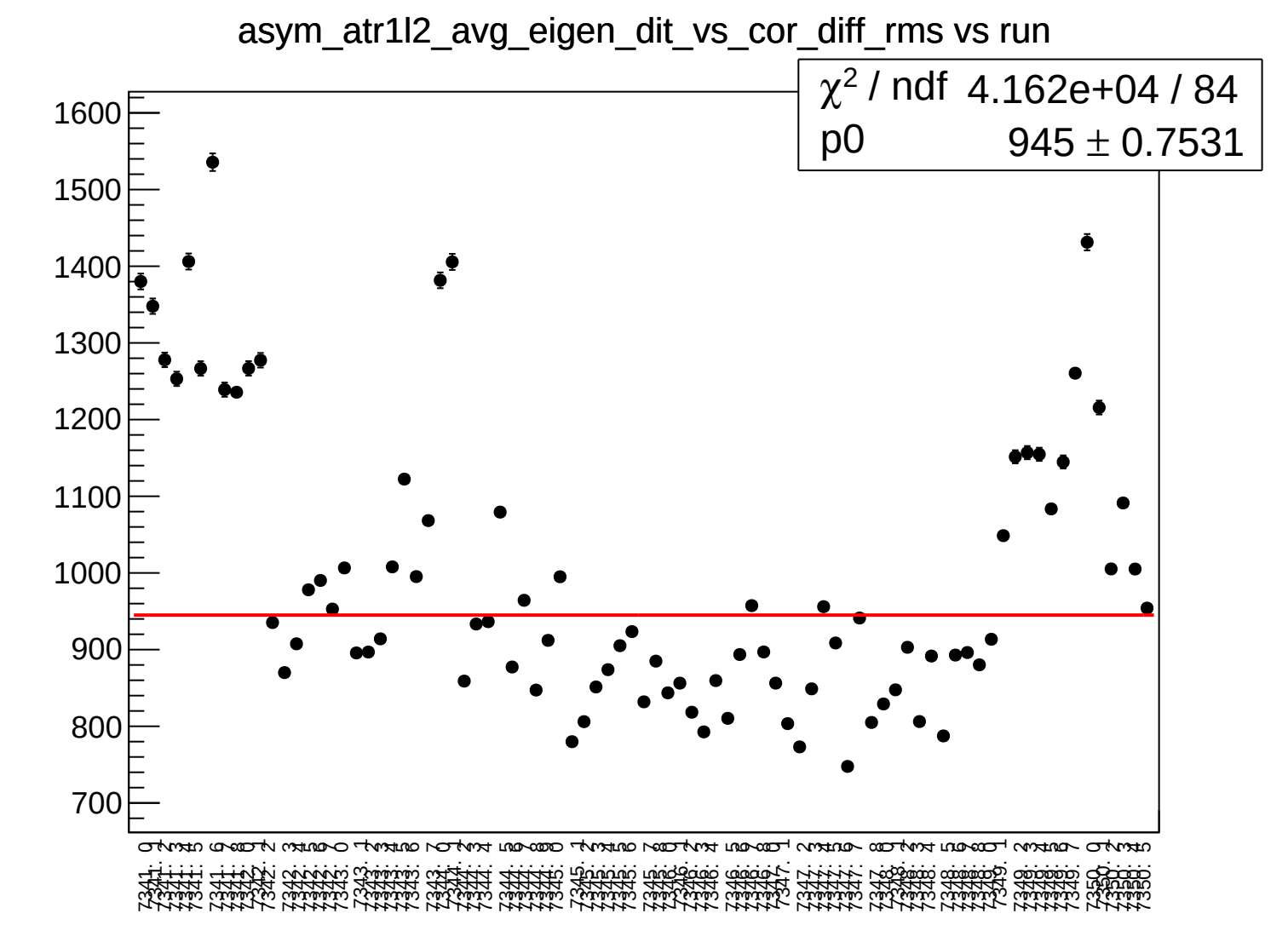

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.88 / 84
p0 −1.079e−05 ± 1.975e−05
pull
Entries 85
Mean −272
Std Dev 0

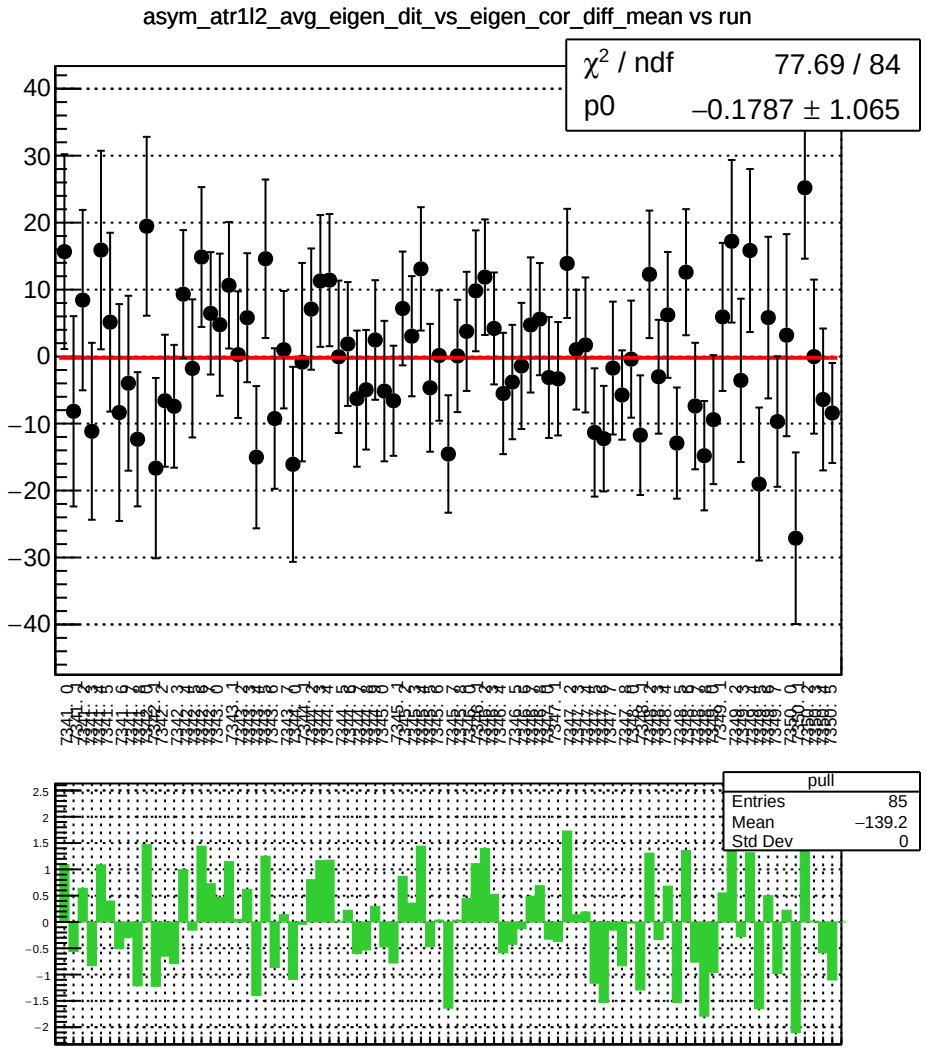

pull1D
Entries 85
Mean 0.009173
Std Dev 0.9323

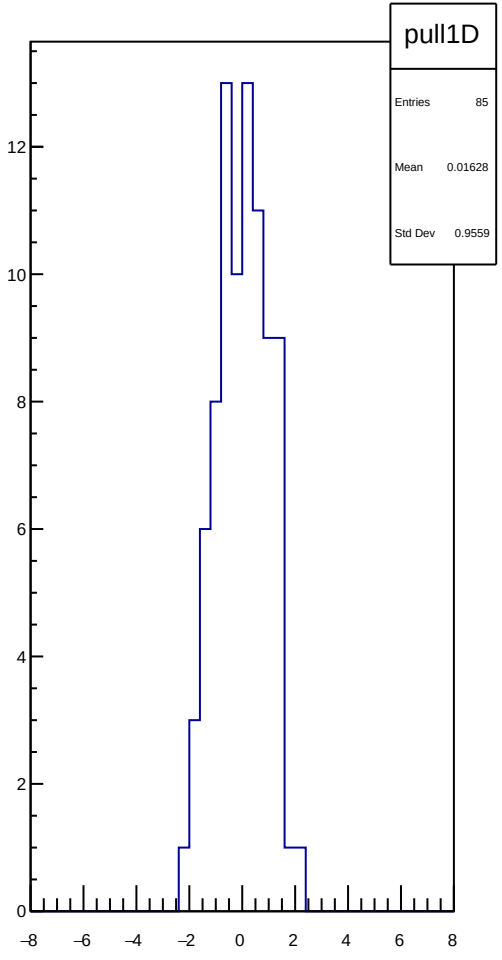

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6624 / 84
p0 0.01772 ± 1.396e–05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015

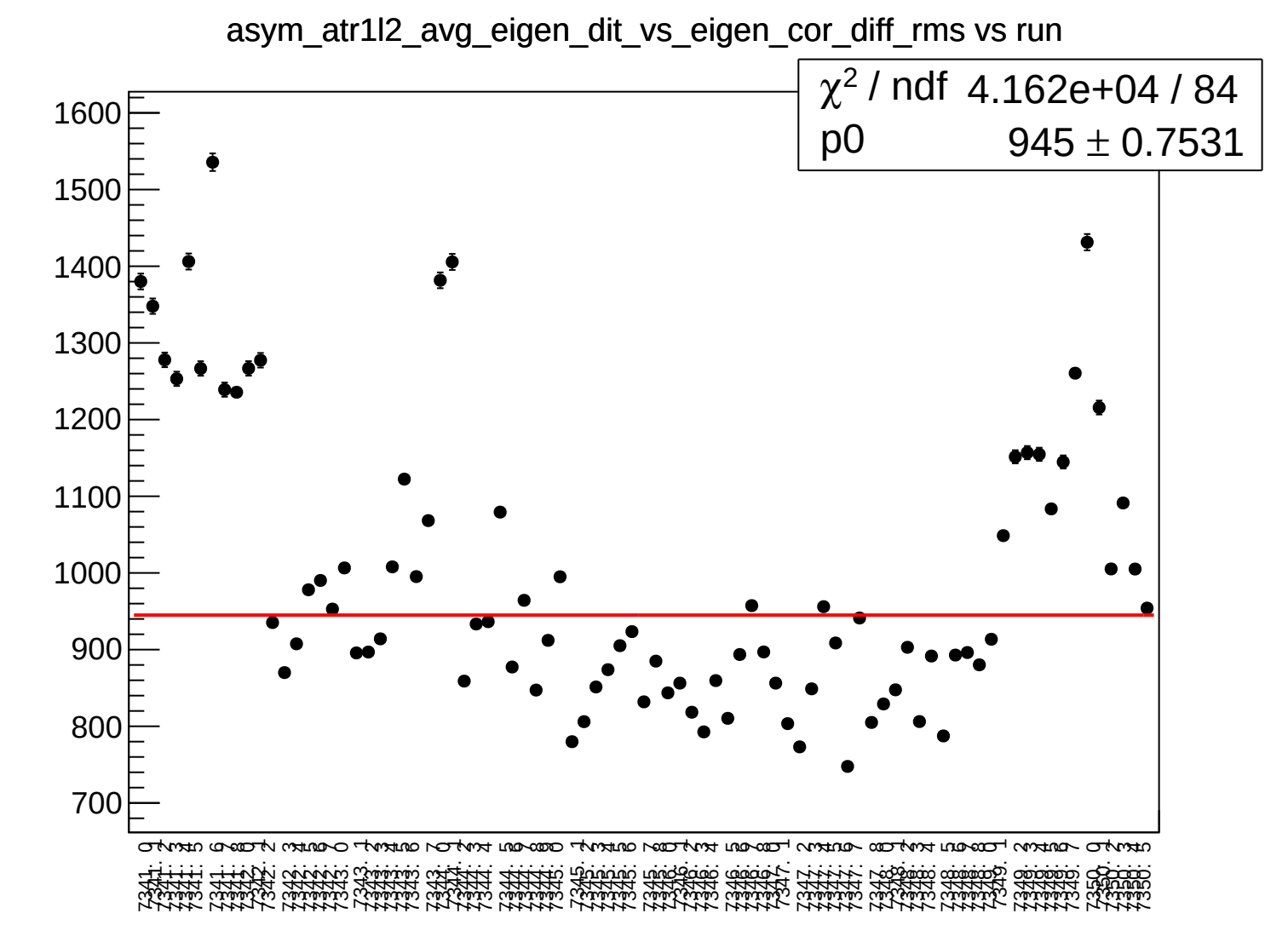

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.69 / 84
p0 −0.1787 ± 1.065
pull
Entries 85
Mean −139.2
Std Dev 0

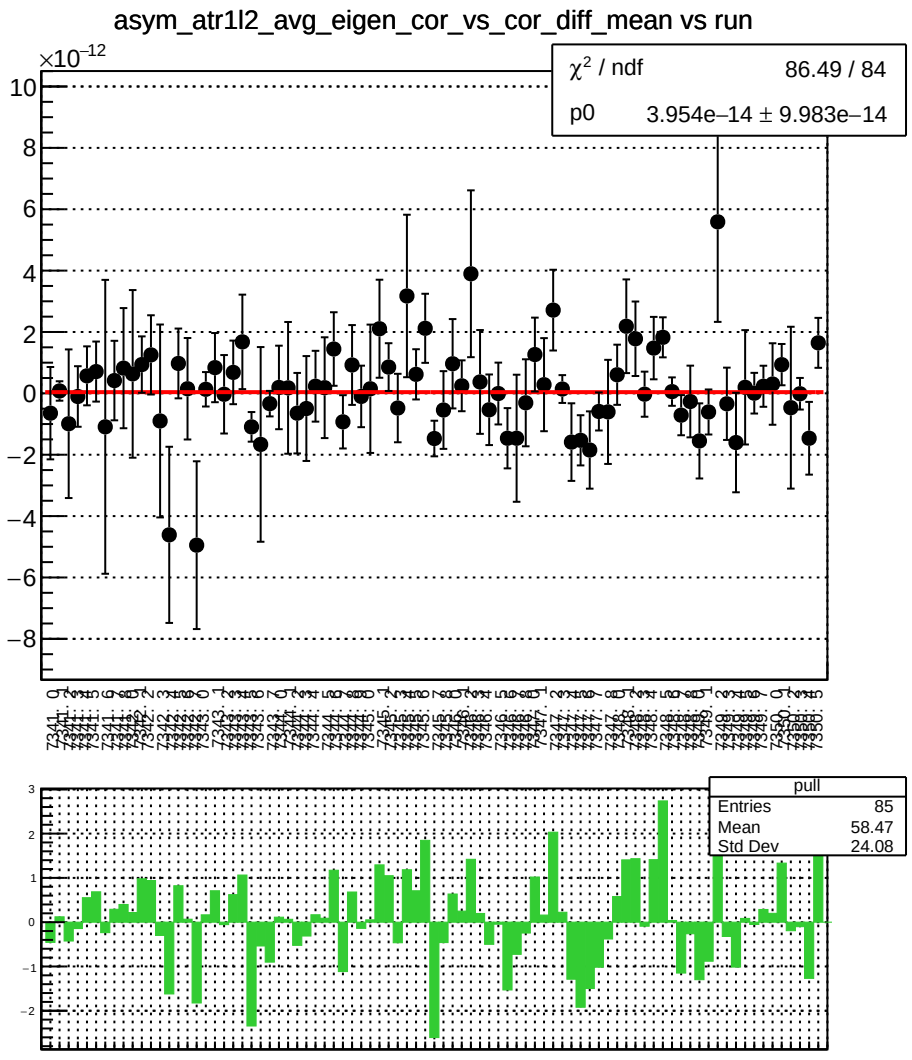

pull1D
Entries 85
Mean 0.01628
Std Dev 0.9559

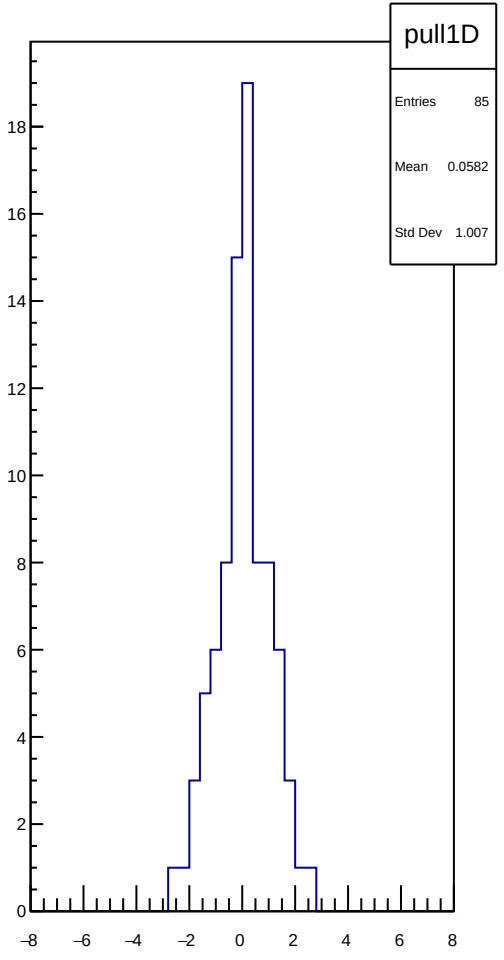

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.162e+04 / 84
p0 945 ± 0.7531
1600
1500
1400
1300
1200
1100
1000
900
800
700

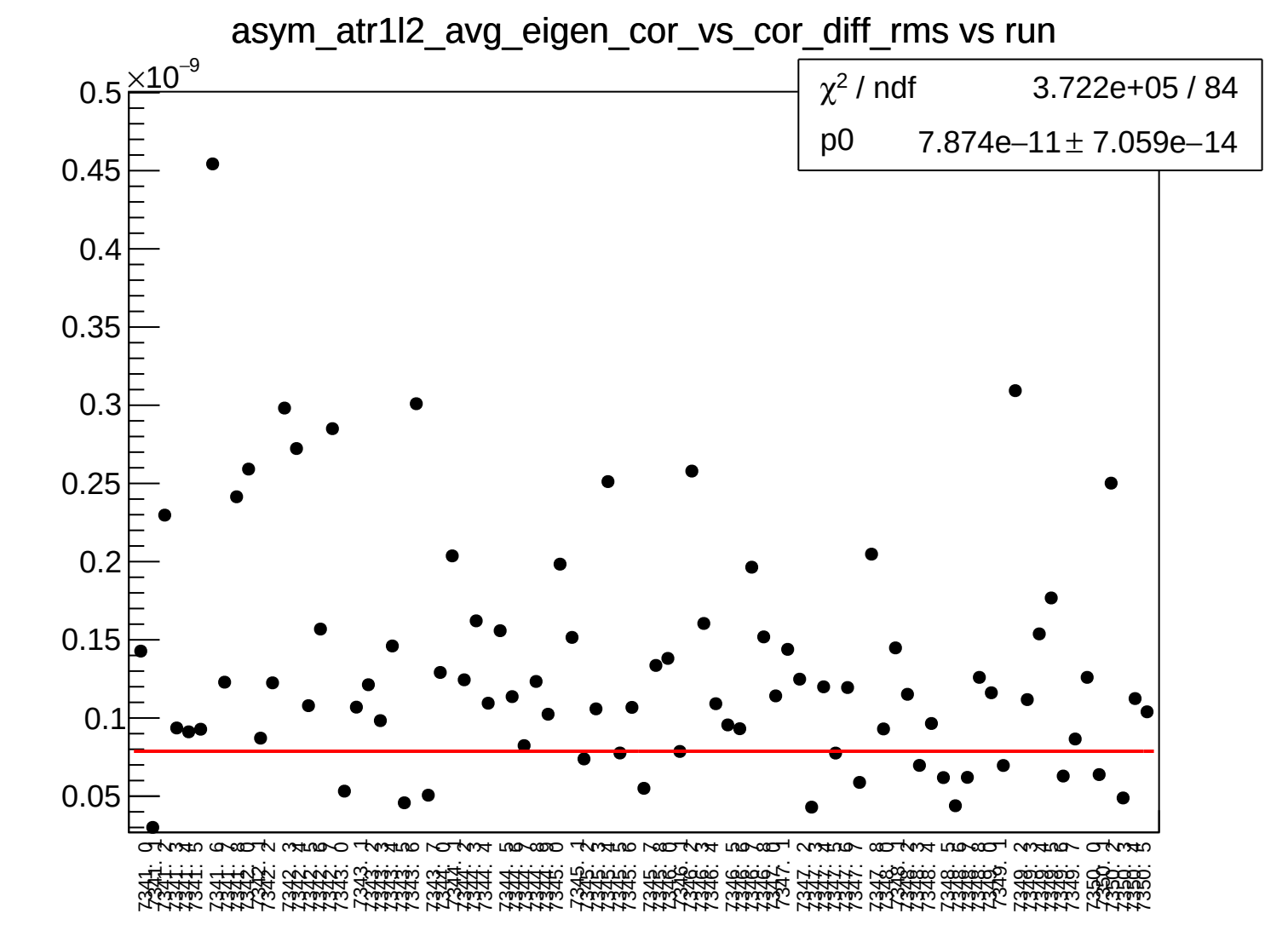

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.69 / 84
p0 −0.1787 ± 1.065
pull
Entries 85
Mean −139.2
Std Dev 0

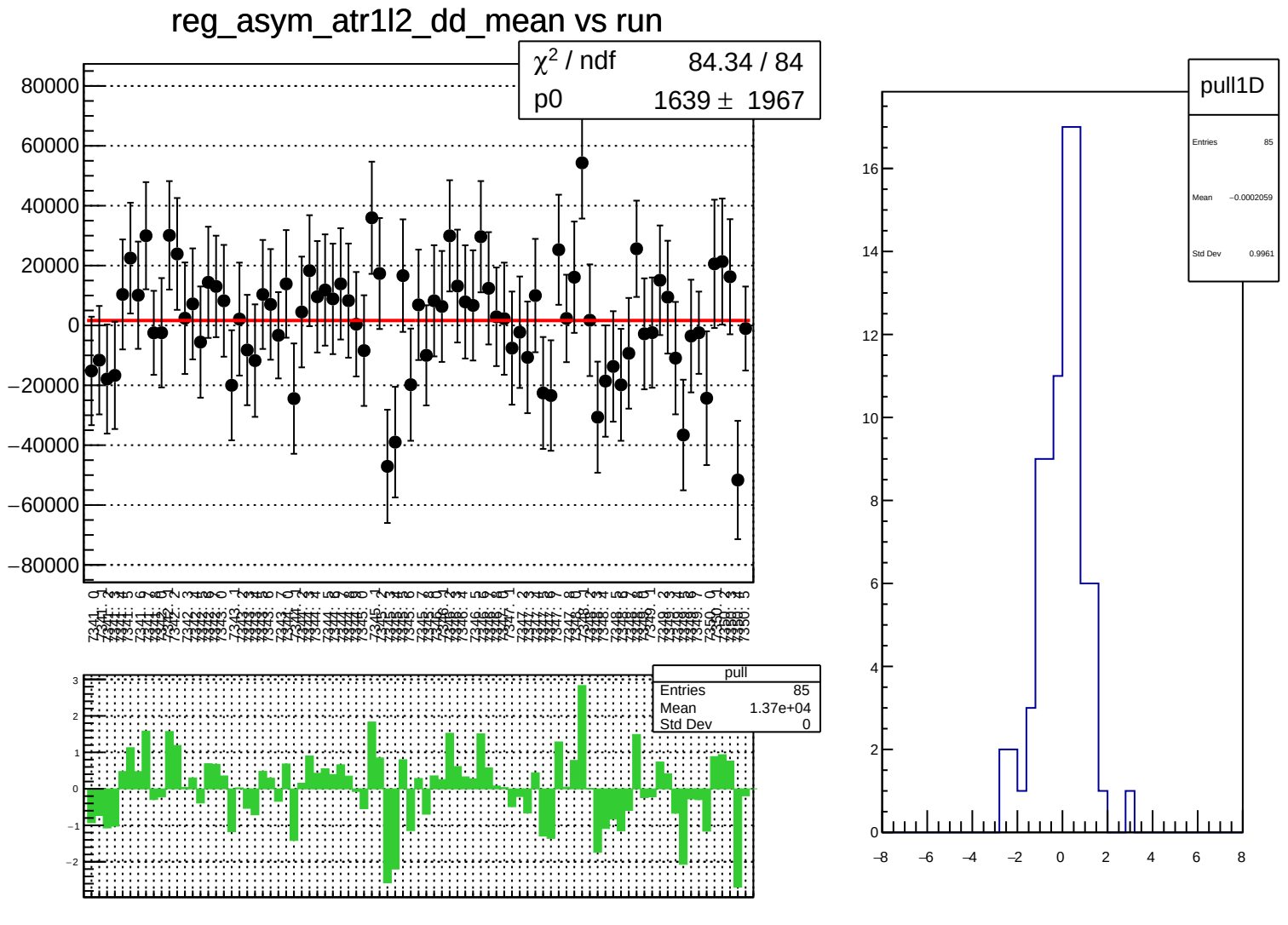

pull1D
Entries 85
Mean 0.01628
Std Dev 0.9559

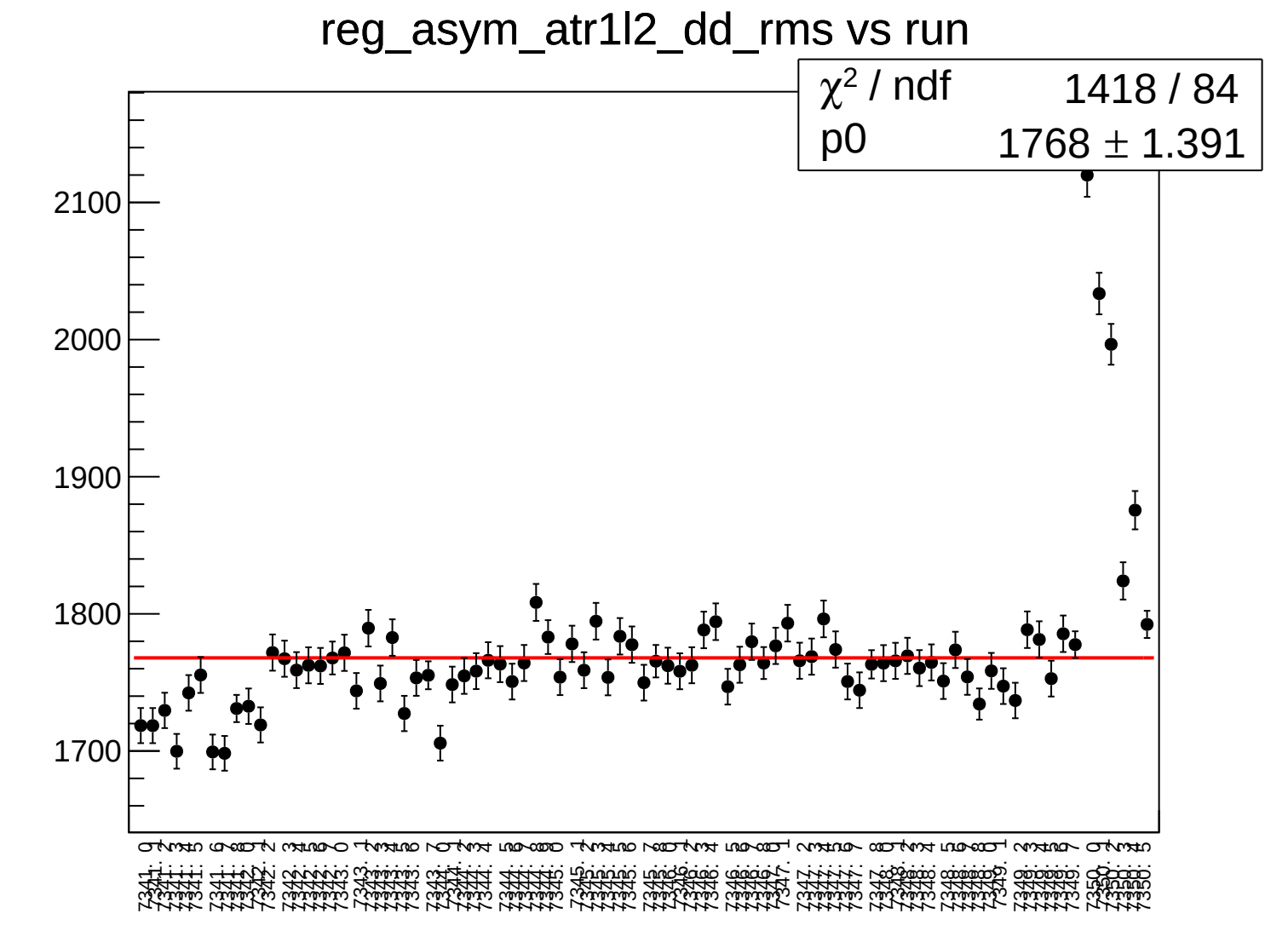

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.162e+04 / 84
p0 945 ± 0.7531
1600
1500
1400
1300
1200
1100
1000
900
800
700

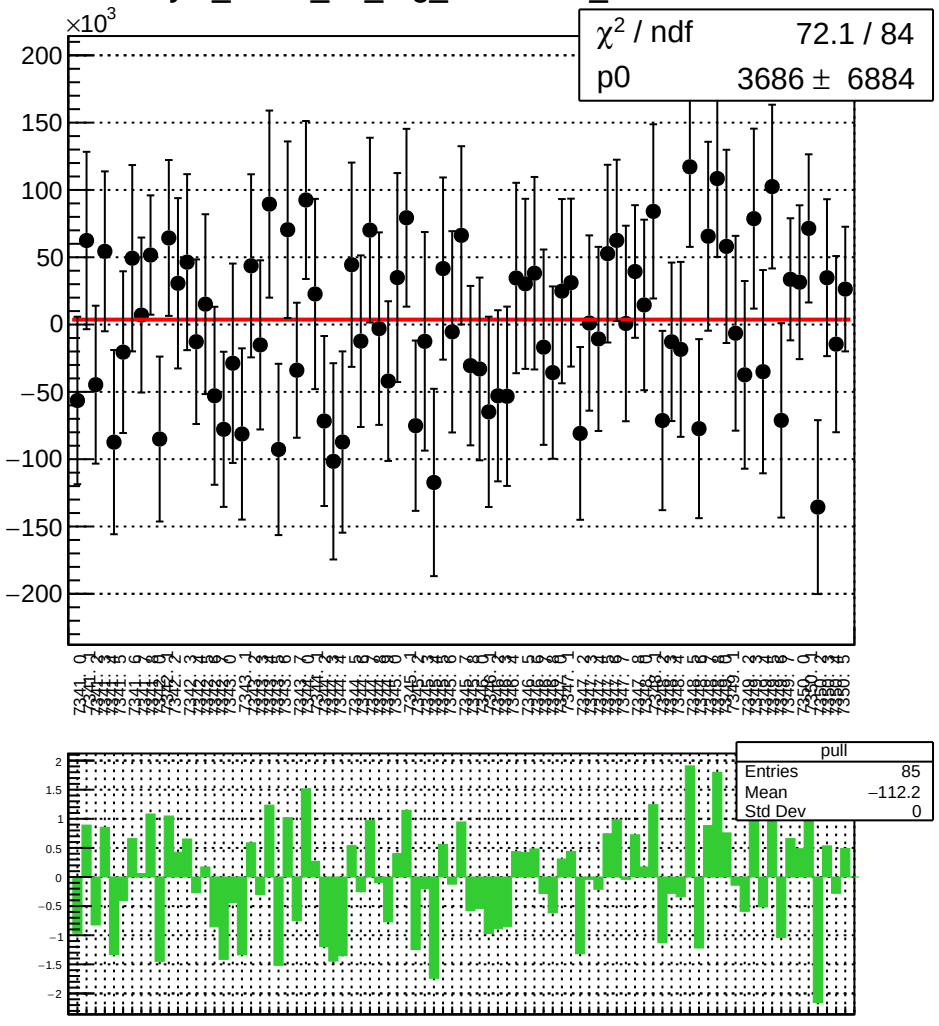

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.49 / 84
p0 3.954e−14 ± 9.983e−14
pull
Entries 85
Mean 58.47
Std Dev 24.08

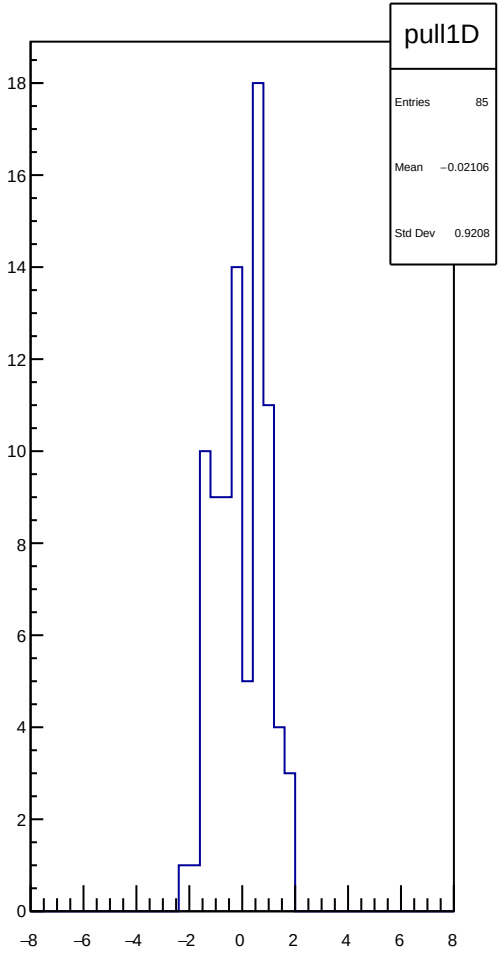

pull1D
Entries 85
Mean 0.0582
Std Dev 1.007

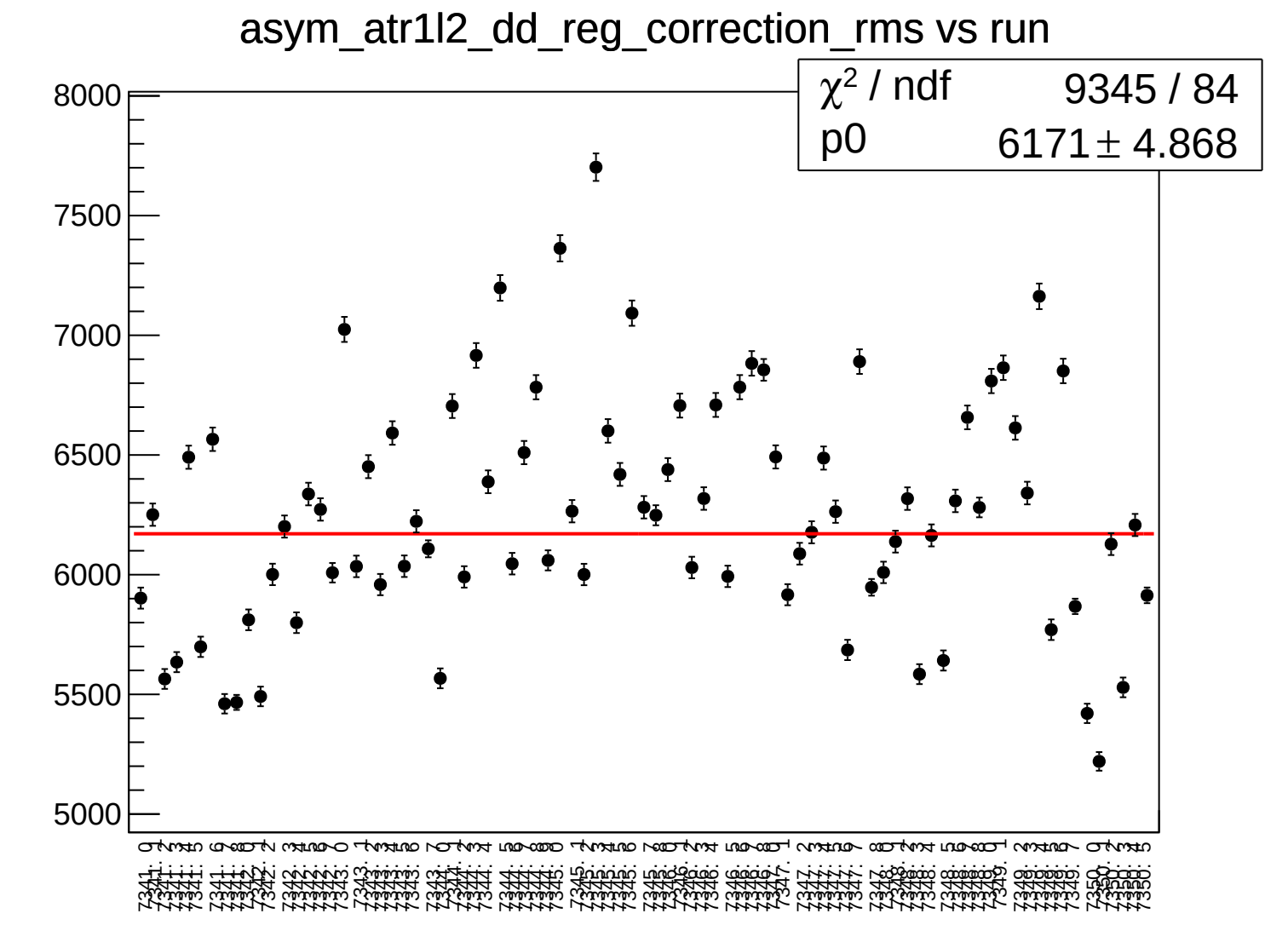

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.722e+05 / 84
p0 7.874e−11 ± 7.059e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

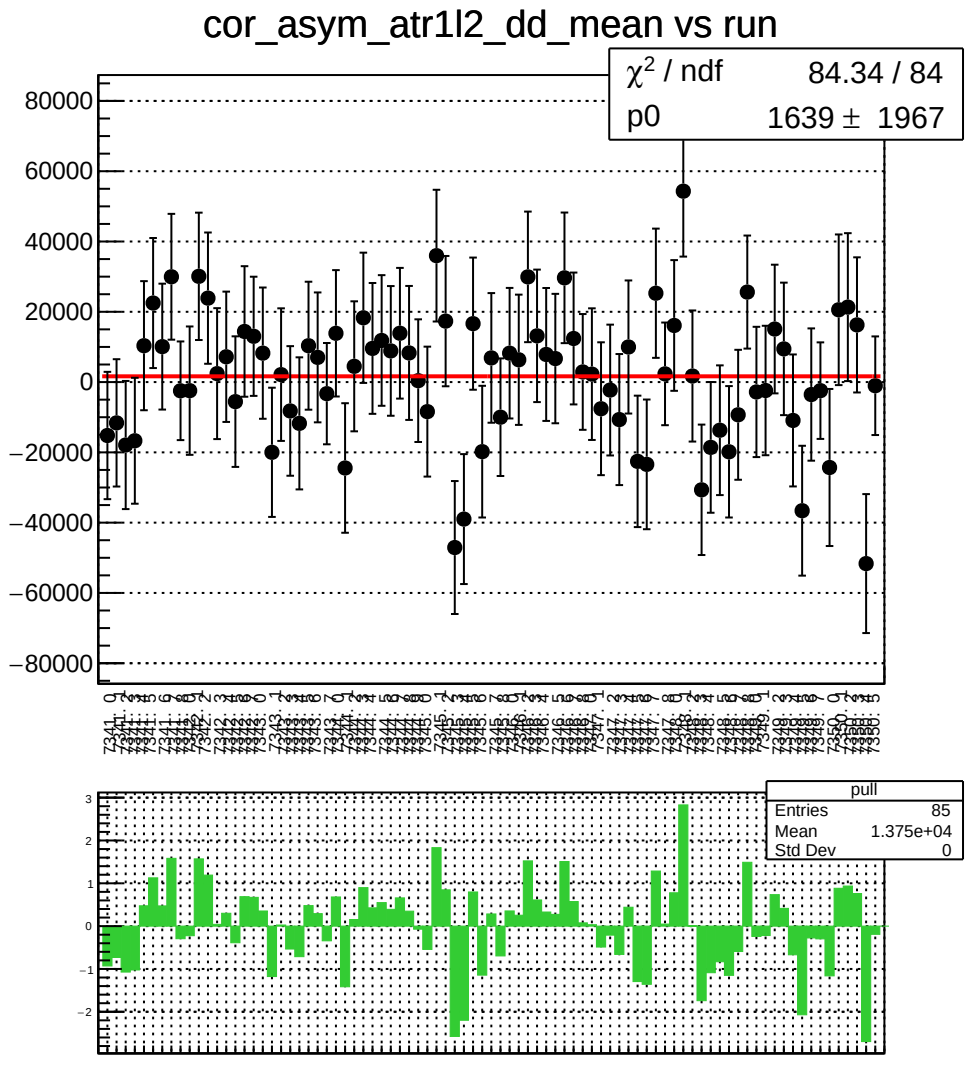

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 84.34 / 84
p0 1639 ± 1967
pull
Entries 85
Mean 1.37e+04
Std Dev 0
pull1D
Entries 85
Mean −0.0002059
Std Dev 0.9961

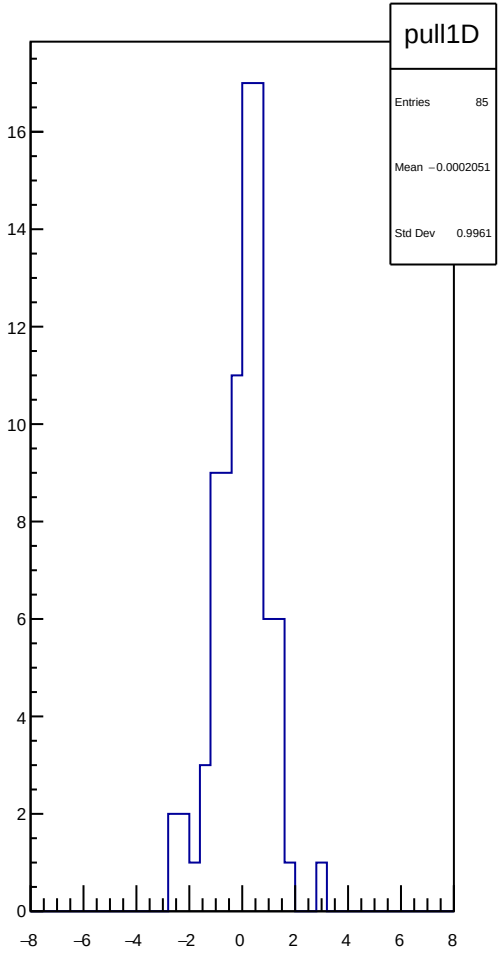

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1418 / 84
p0 1768 ± 1.391
2100
2000
1900
1800
1700

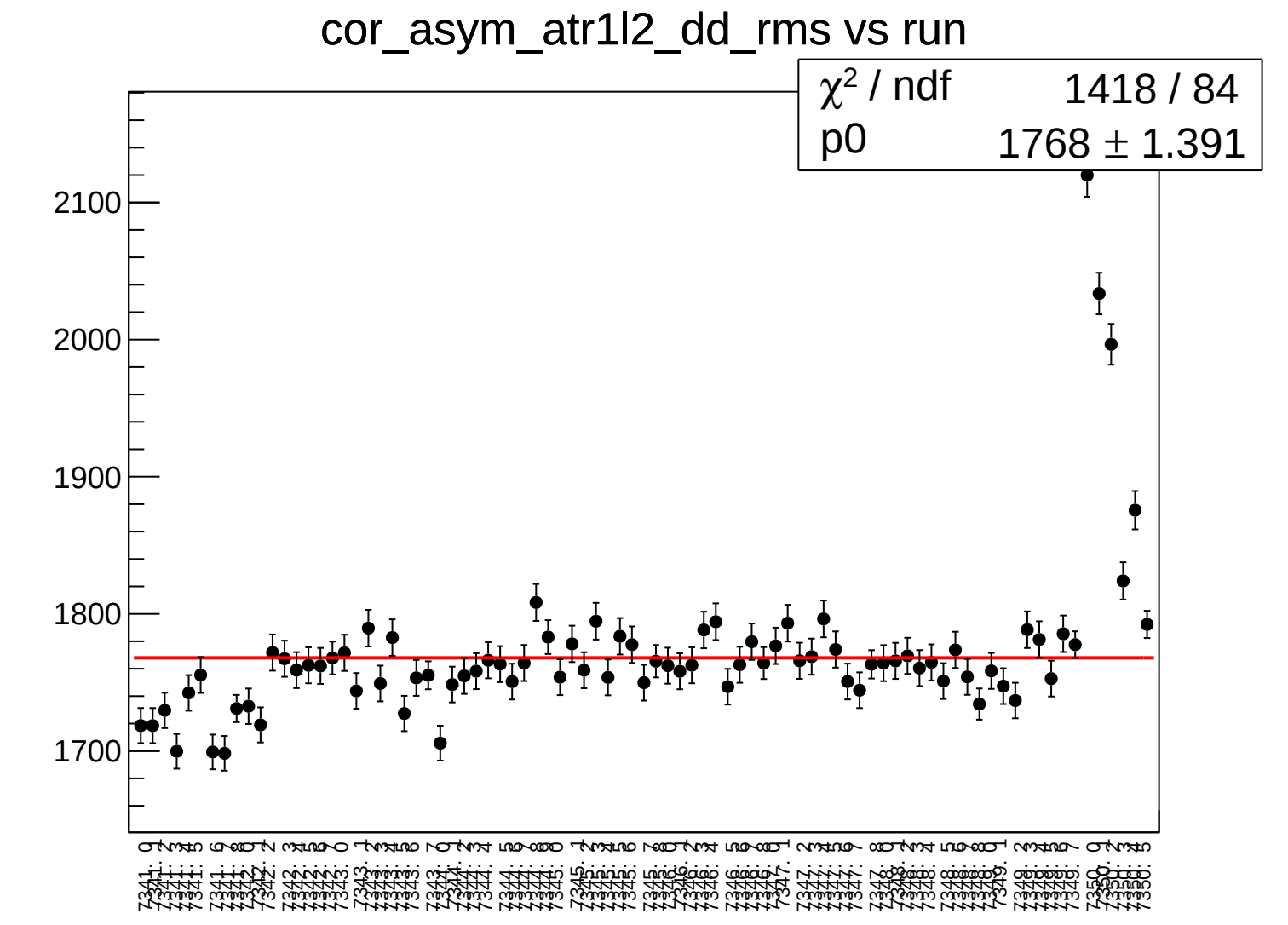

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 72.1 / 84
p0 3686 ± 6884
pull
Entries 85
Mean −112.2
Std Dev 0

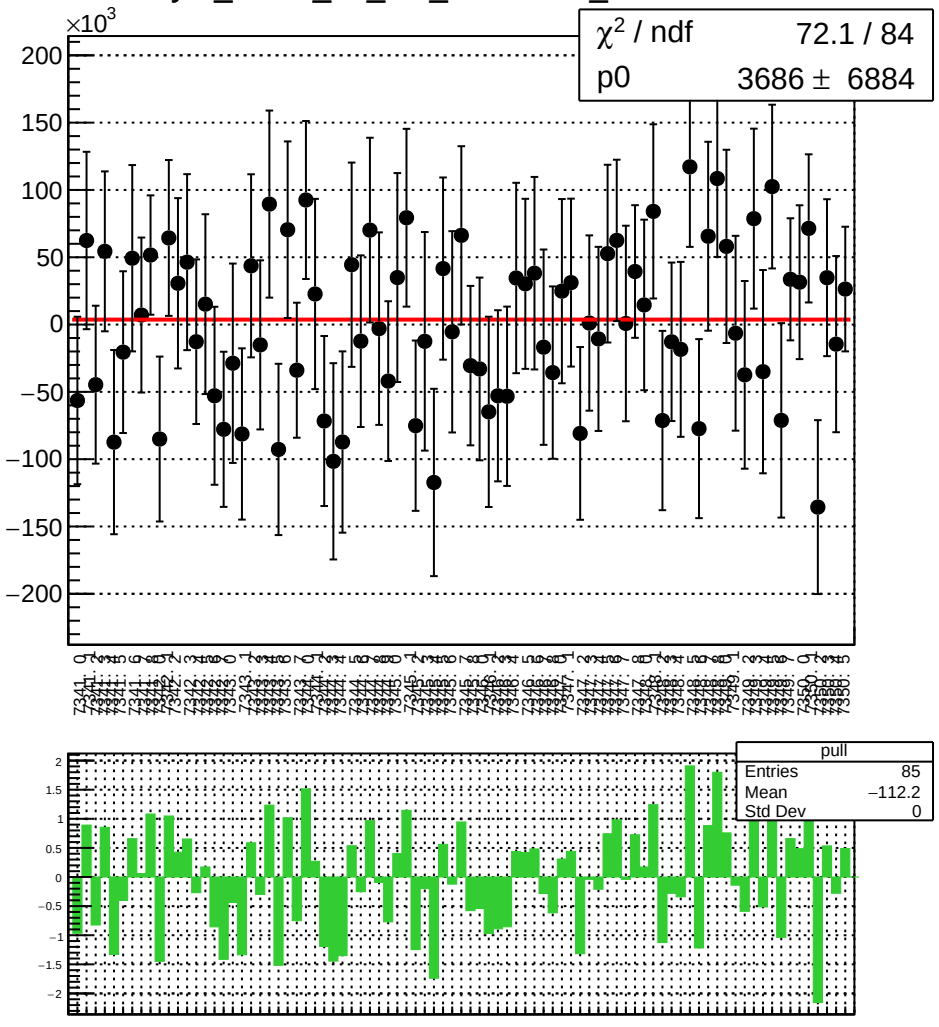

pull1D
Entries 85
Mean −0.02106
Std Dev 0.9208

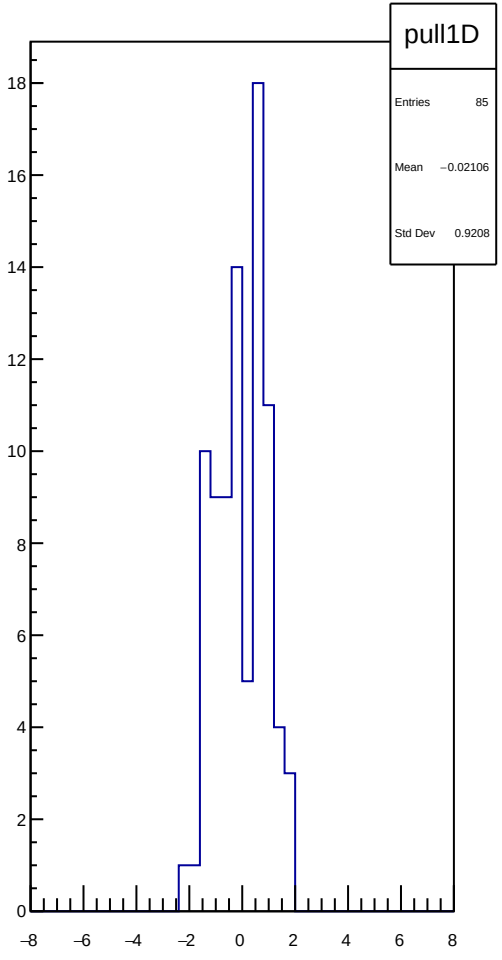

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 9345 / 84
p0 6171 ± 4.868
8000
7500
7000
6500
6000
5500
5000

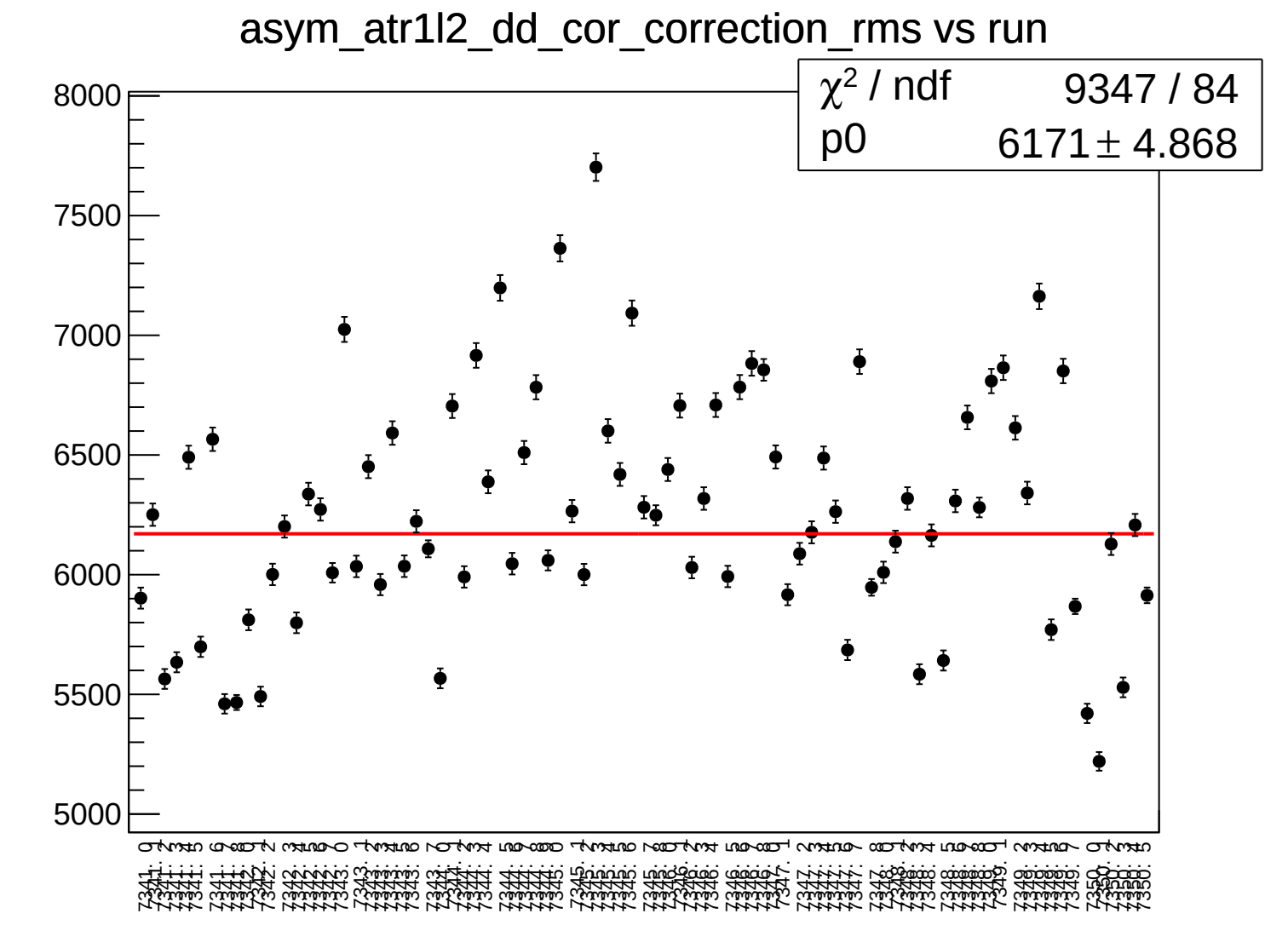

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 84.34 / 84
p0 1639 ± 1967
pull
Entries 85
Mean 1.375e+04
Std Dev 0

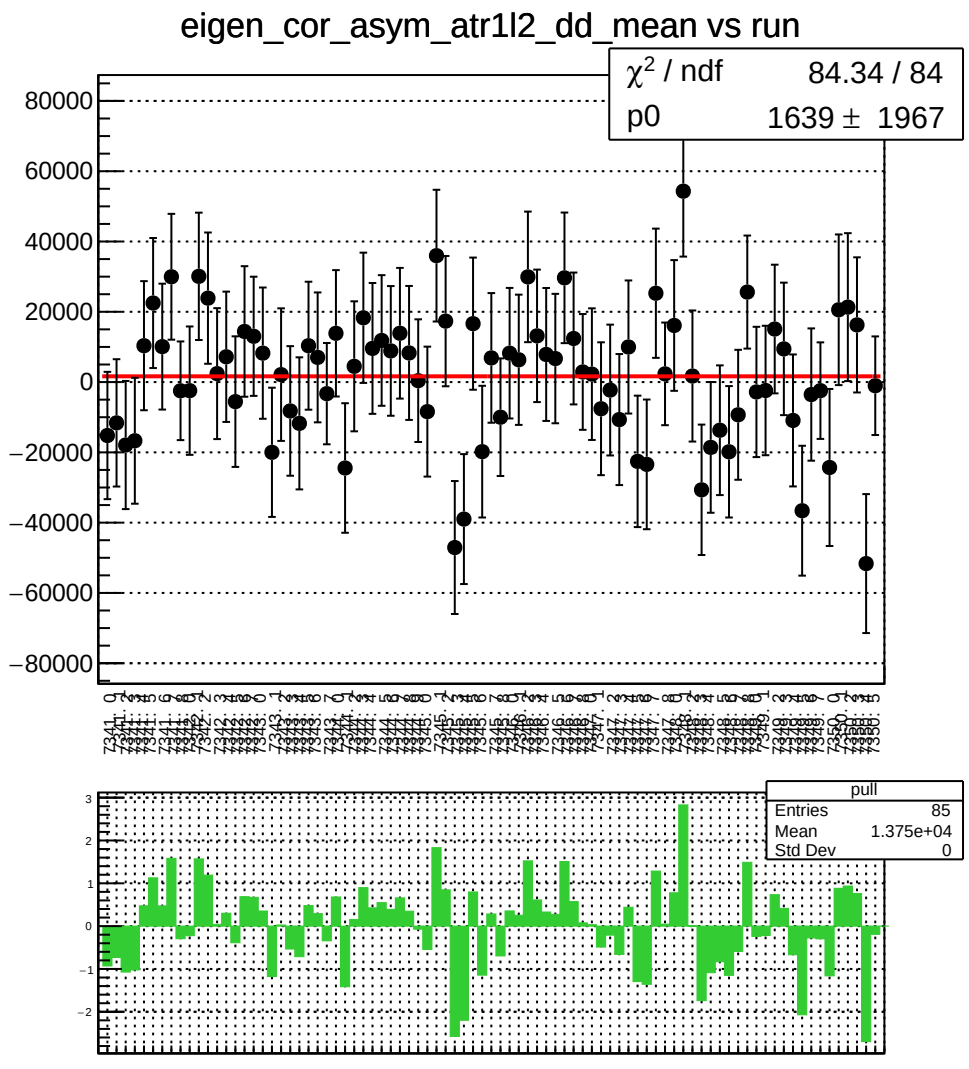

pull1D
Entries 85
Mean −0.0002051
Std Dev 0.9961

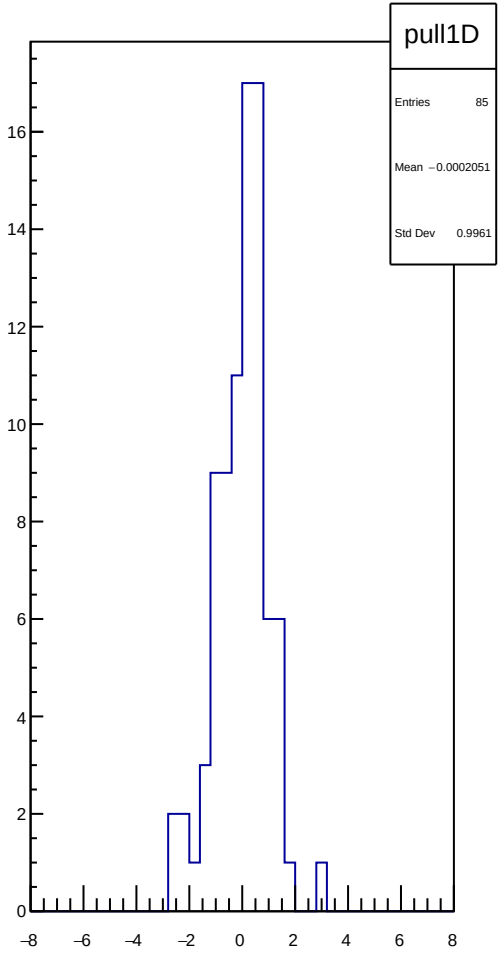

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 1418 / 84
p0 1768 ± 1.391
2100
2000
1900
1800
1700

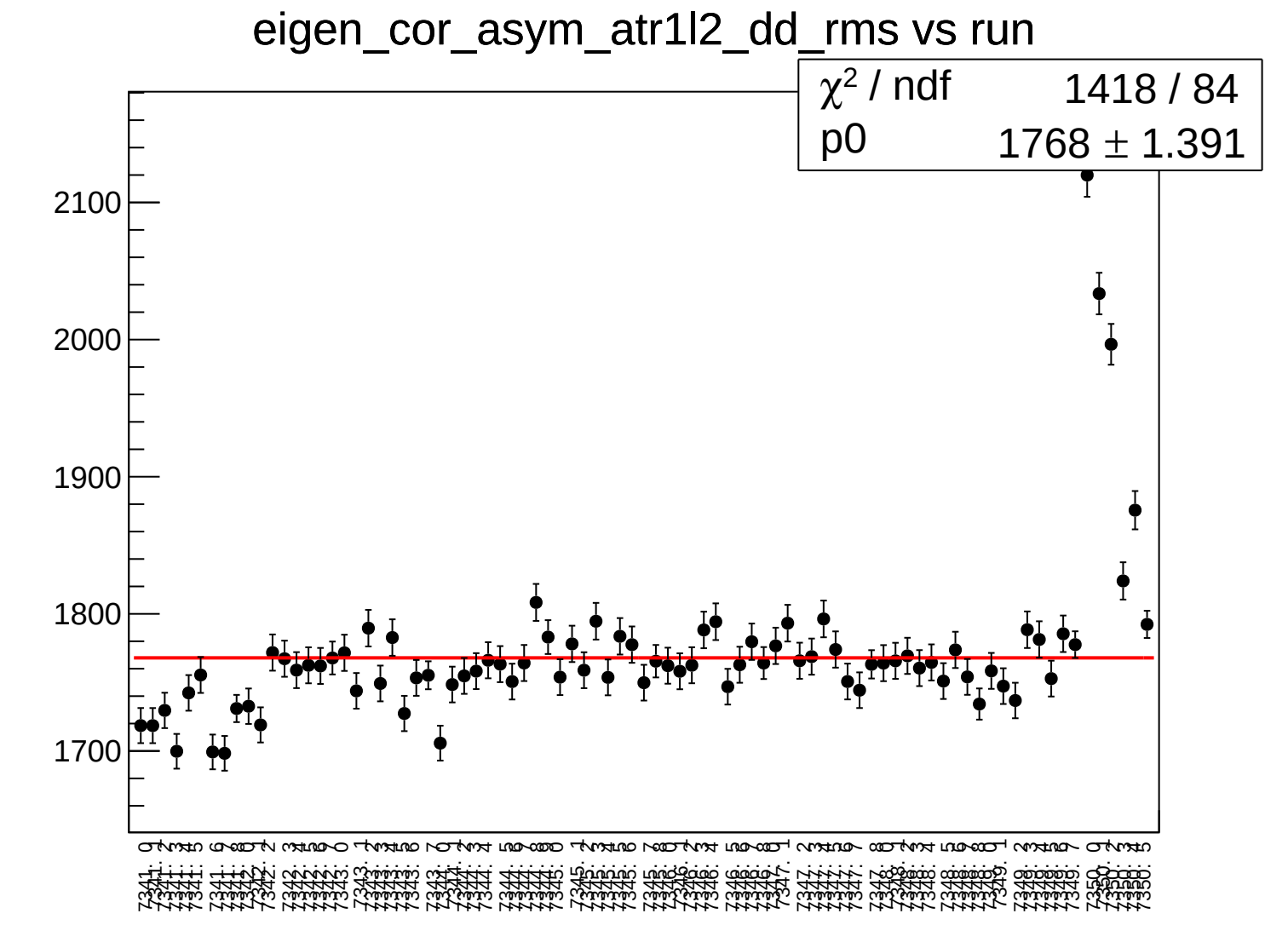

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 72.1 / 84
p0 3686 ± 6884
pull
Entries 85
Mean −112.2
Std Dev 0

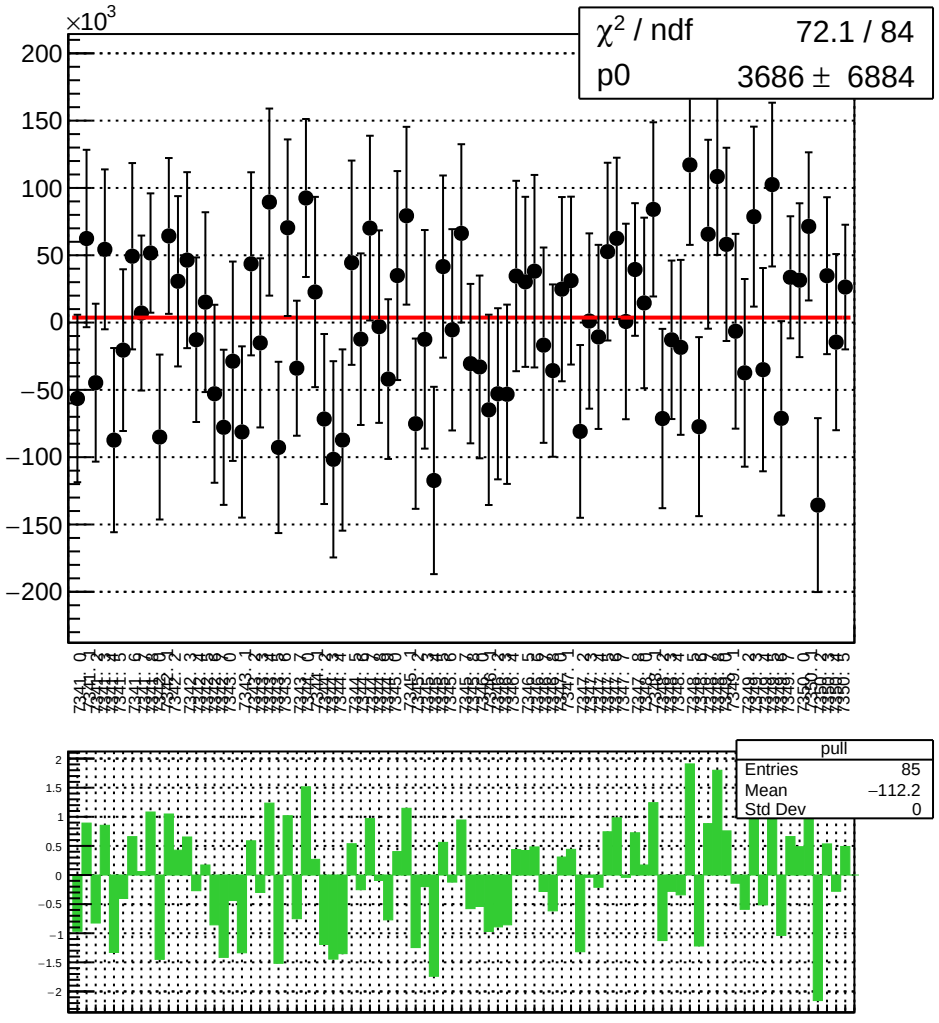

pull1D
Entries 85
Mean −0.02106
Std Dev 0.9208

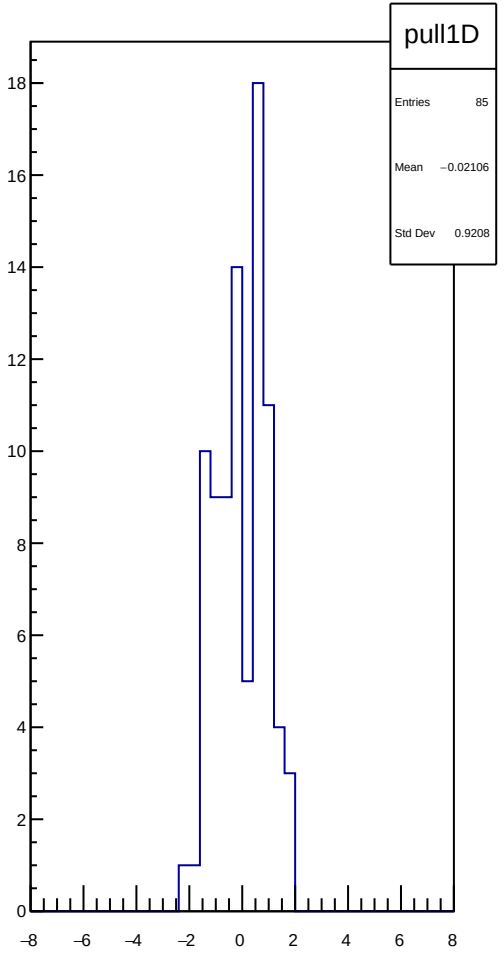

asym_atr1l2_dd_cor_correction_rms vs run
χ^2 / ndf 9347 / 84
p0 6171 ± 4.868
8000
7500
7000
6500
6000
5500
5000

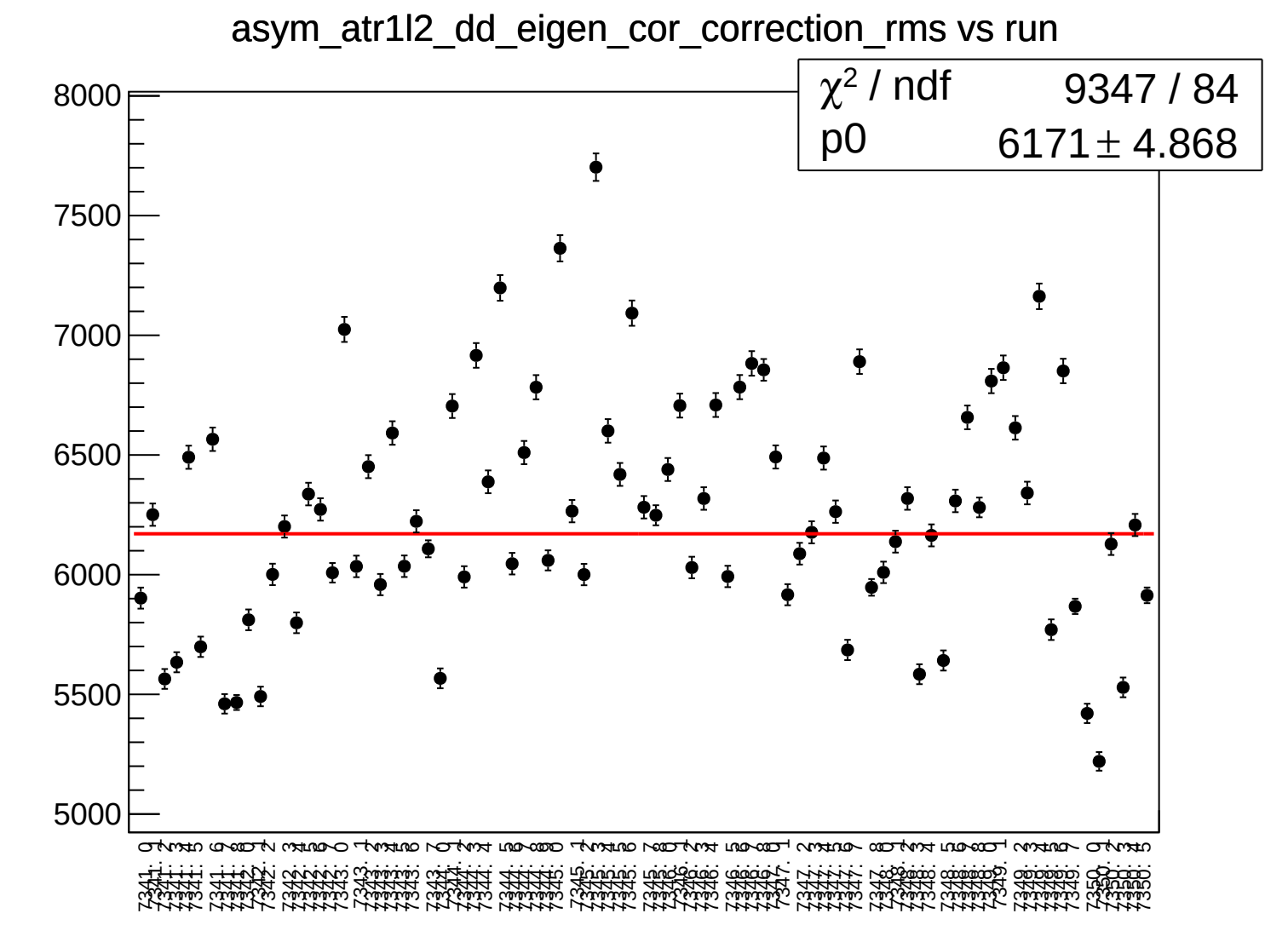

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 84.34 / 84
p0 1639 ± 1967
pull
Entries 85
Mean 1.375e+04
Std Dev 0

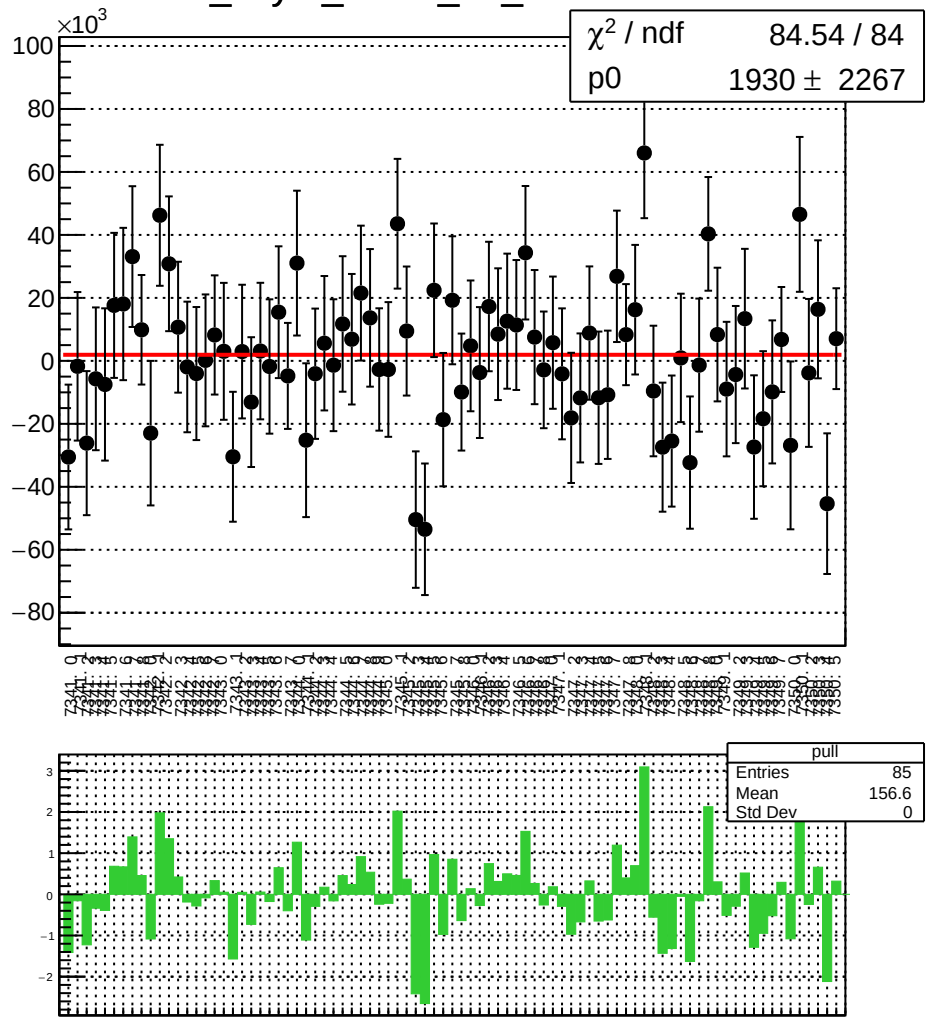

pull1D
Entries 85
Mean −0.0002051
Std Dev 0.9961

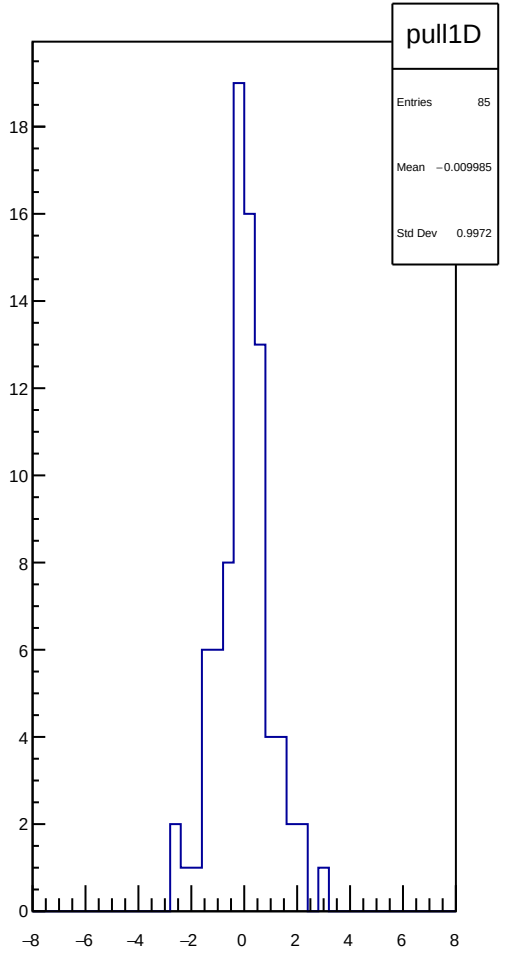

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 1418 / 84
p0 1768 ± 1.391
2100
2000
1900
1800
1700

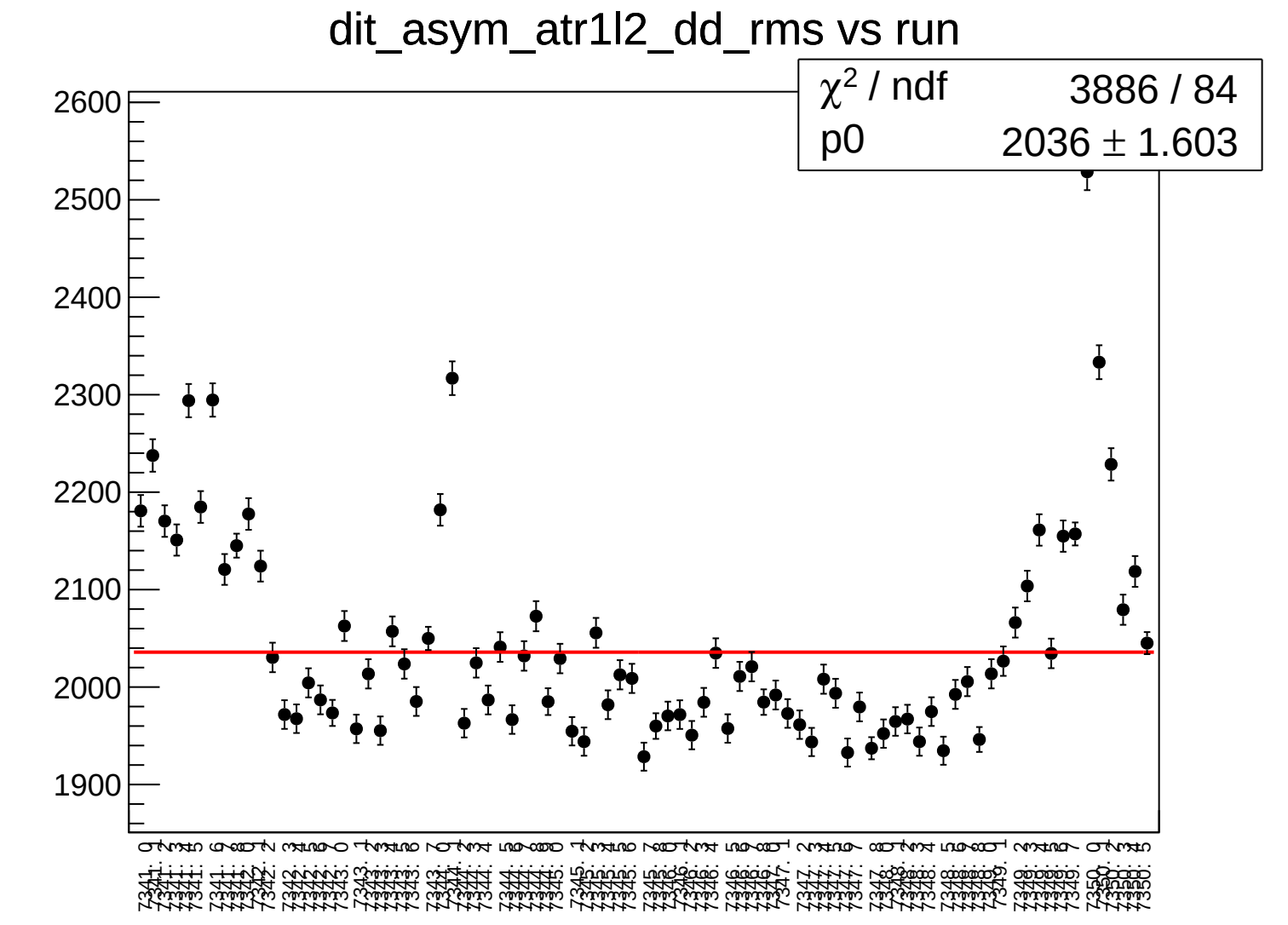

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.1 / 84
p0 3686 ± 6884
pull
Entries 85
Mean −112.2
Std Dev 0

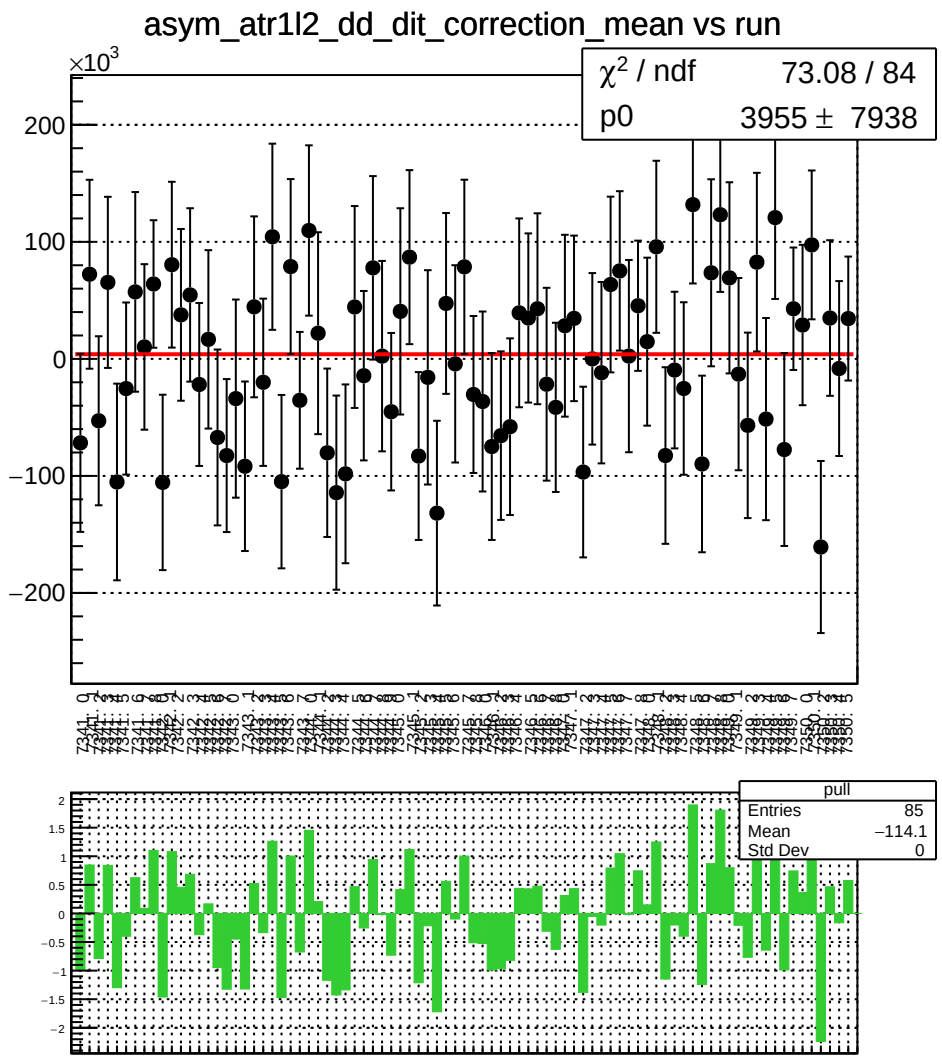

pull1D
Entries 85
Mean −0.02106
Std Dev 0.9208

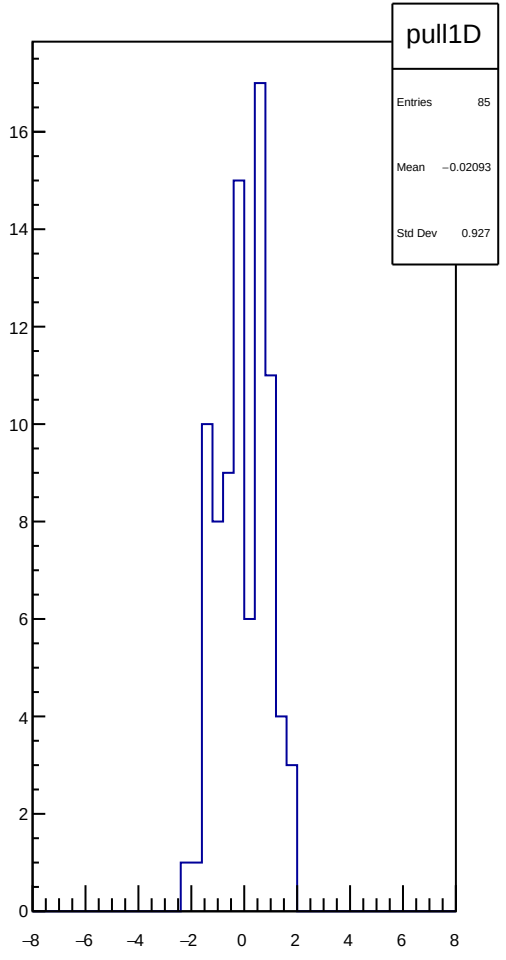

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 9347 / 84
p0 6171 ± 4.868
8000
7500
7000
6500
6000
5500
5000

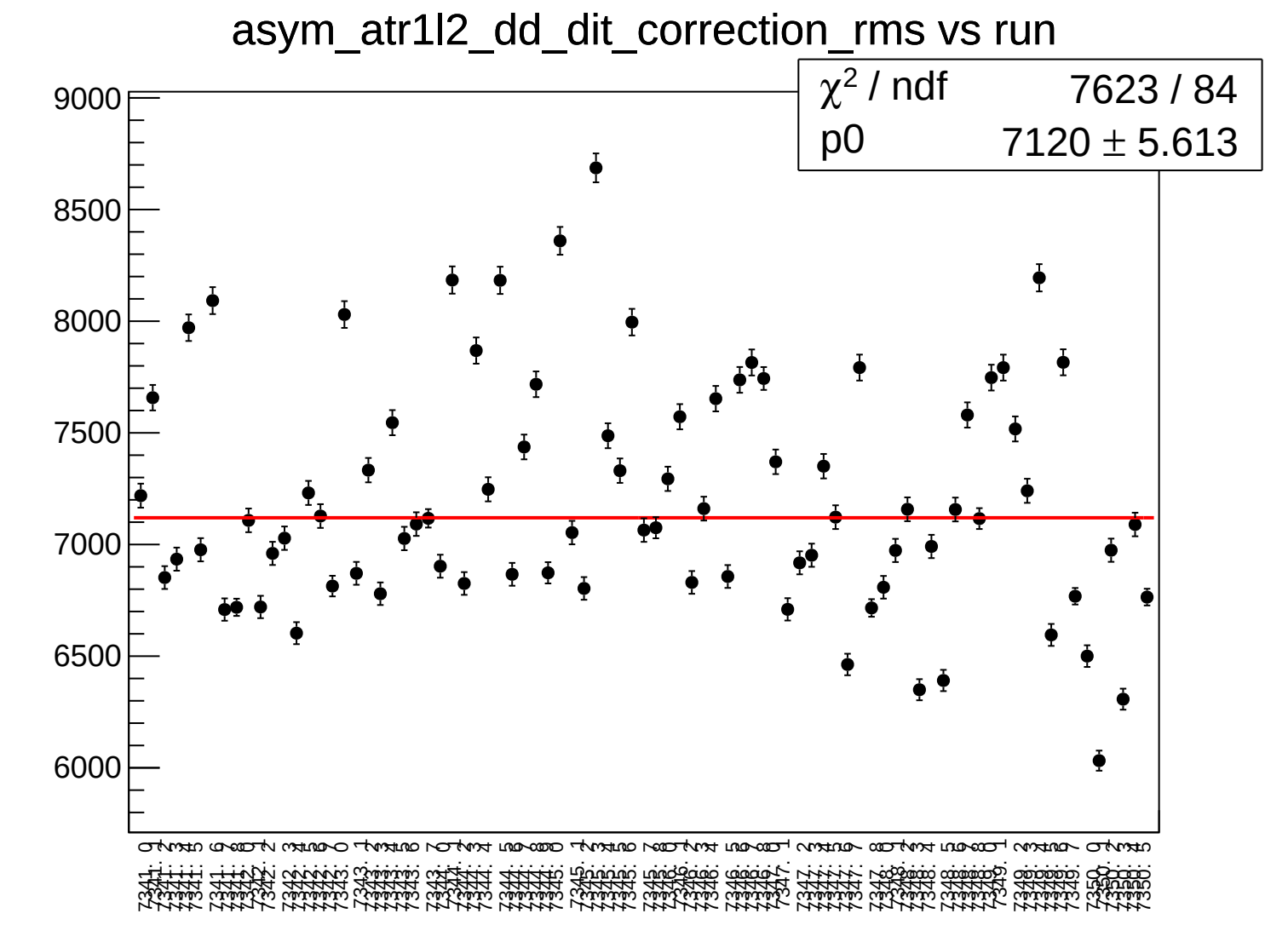

dit_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 84.54 / 84
p0 1930 ± 2267
pull
Entries 85
Mean 156.6
Std Dev 0

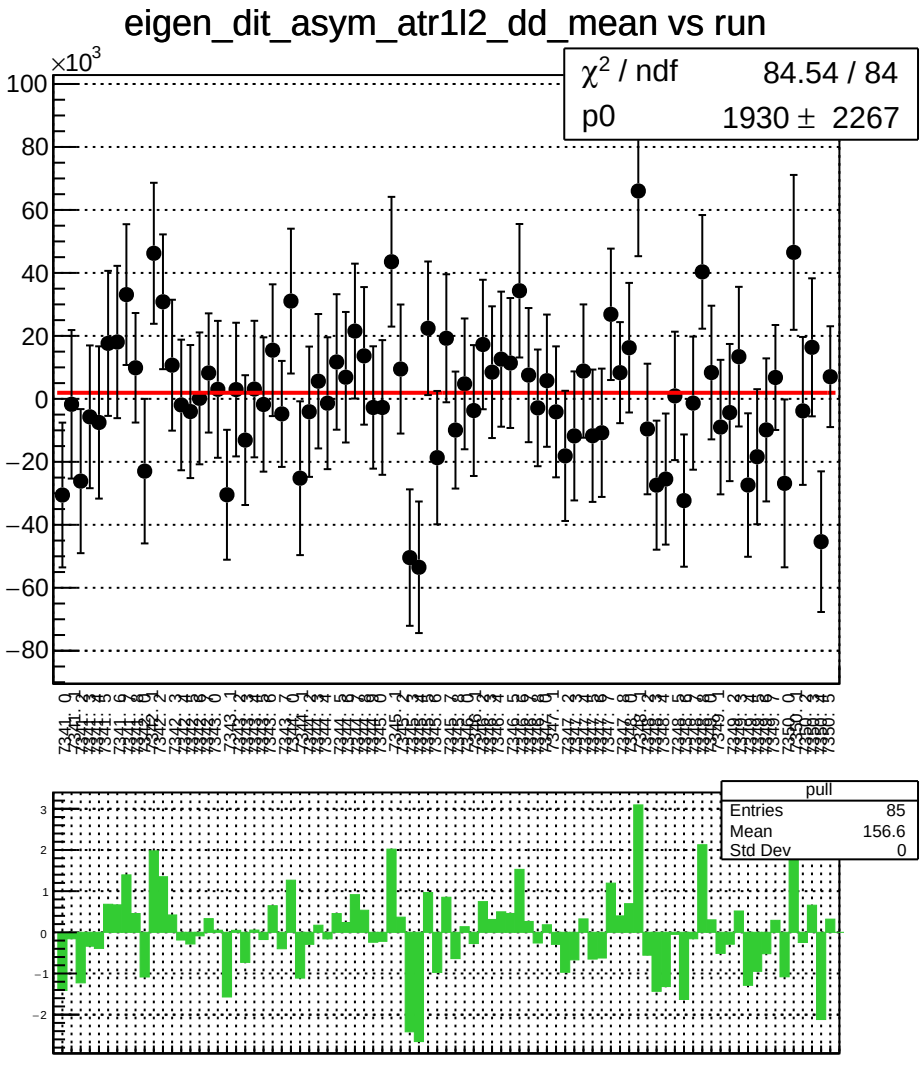

pull1D
Entries 85
Mean −0.009985
Std Dev 0.9972

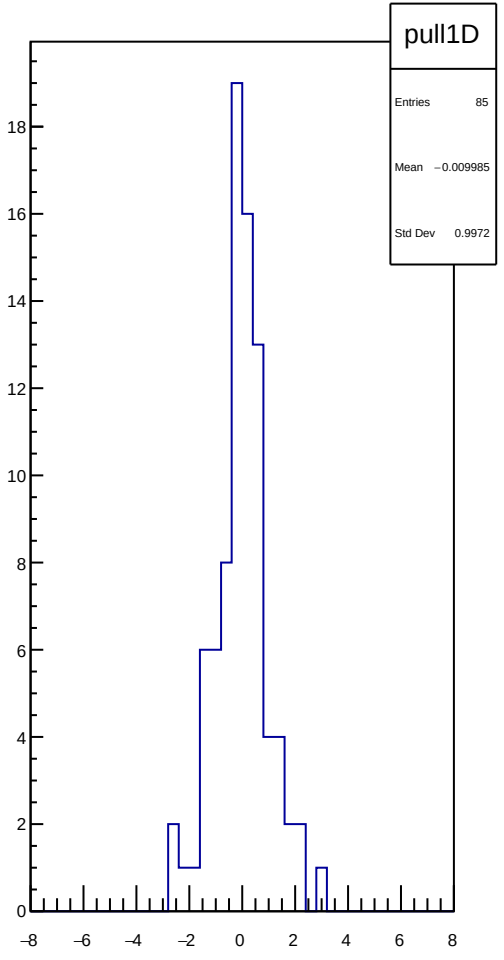

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 3886 / 84
p0 2036 ± 1.603
2600
2500
2400
2300
2200
2100
2000
1900

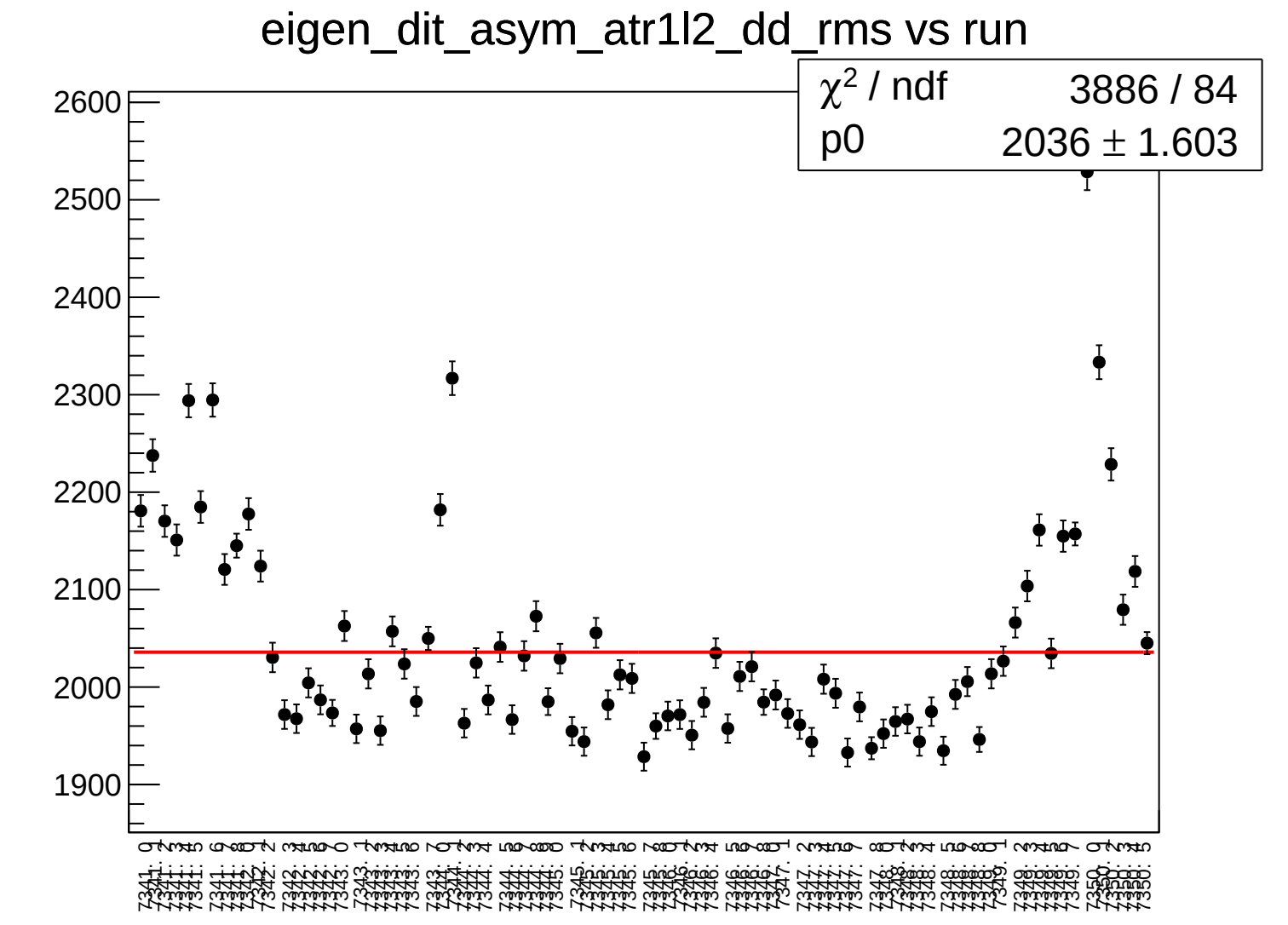

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 73.08 / 84
p0 3955 ± 7938
200
100
0
−100
−200
pull
Entries 85
Mean −114.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

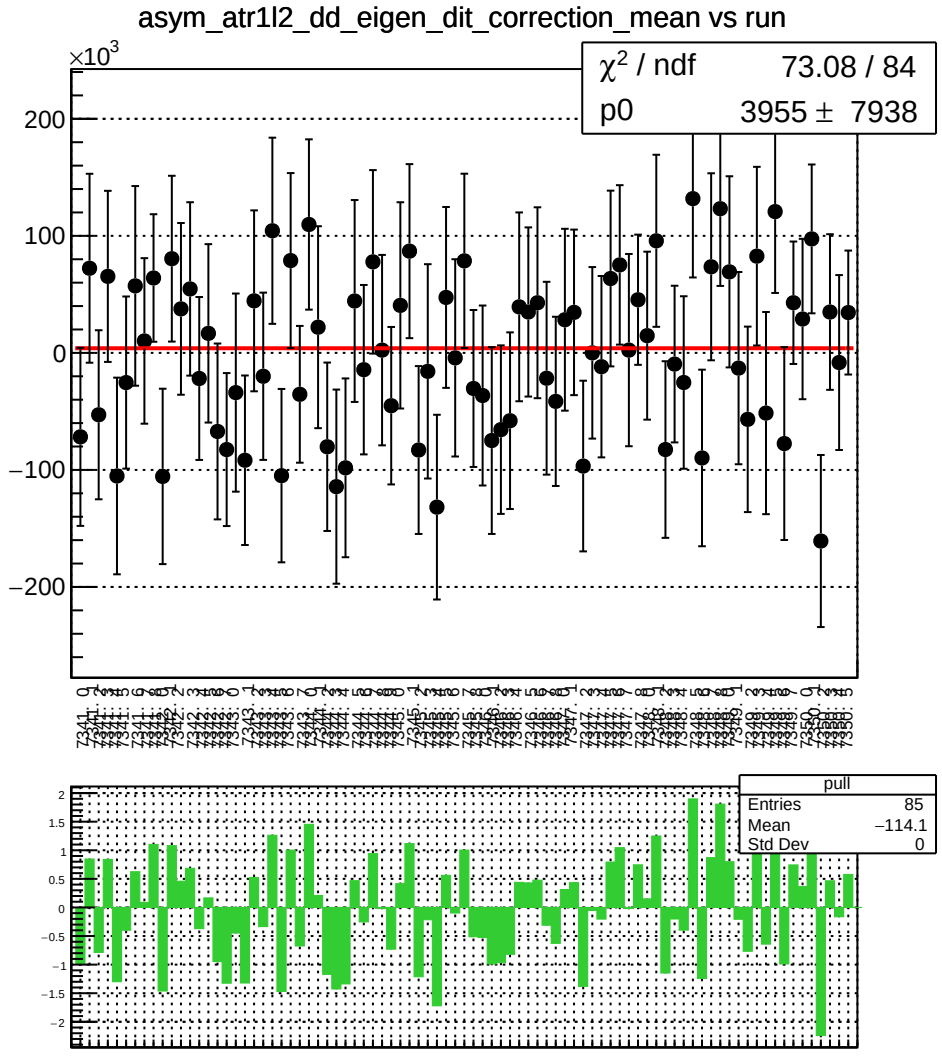

pull1D
Entries 85
Mean −0.02093
Std Dev 0.927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

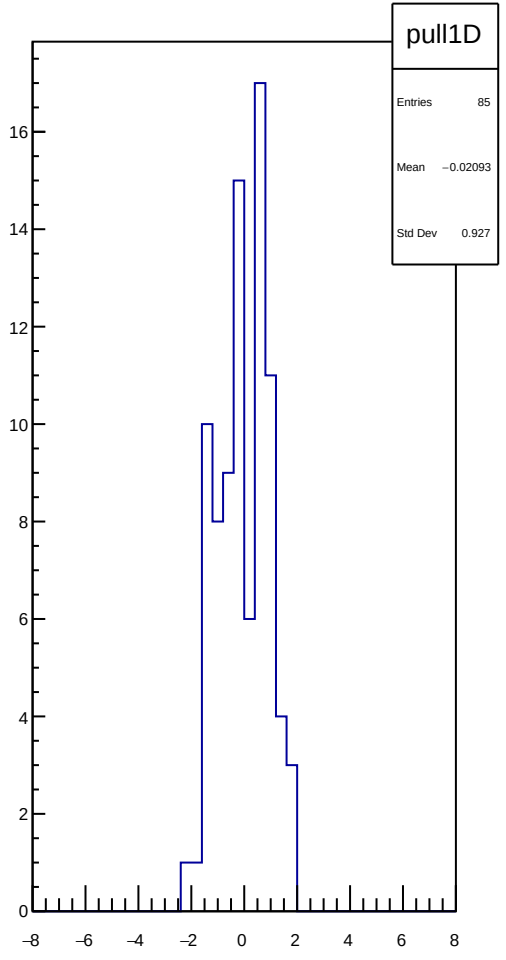

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 7623 / 84
p0 7120 ± 5.613
9000
8500
8000
7500
7000
6500
6000

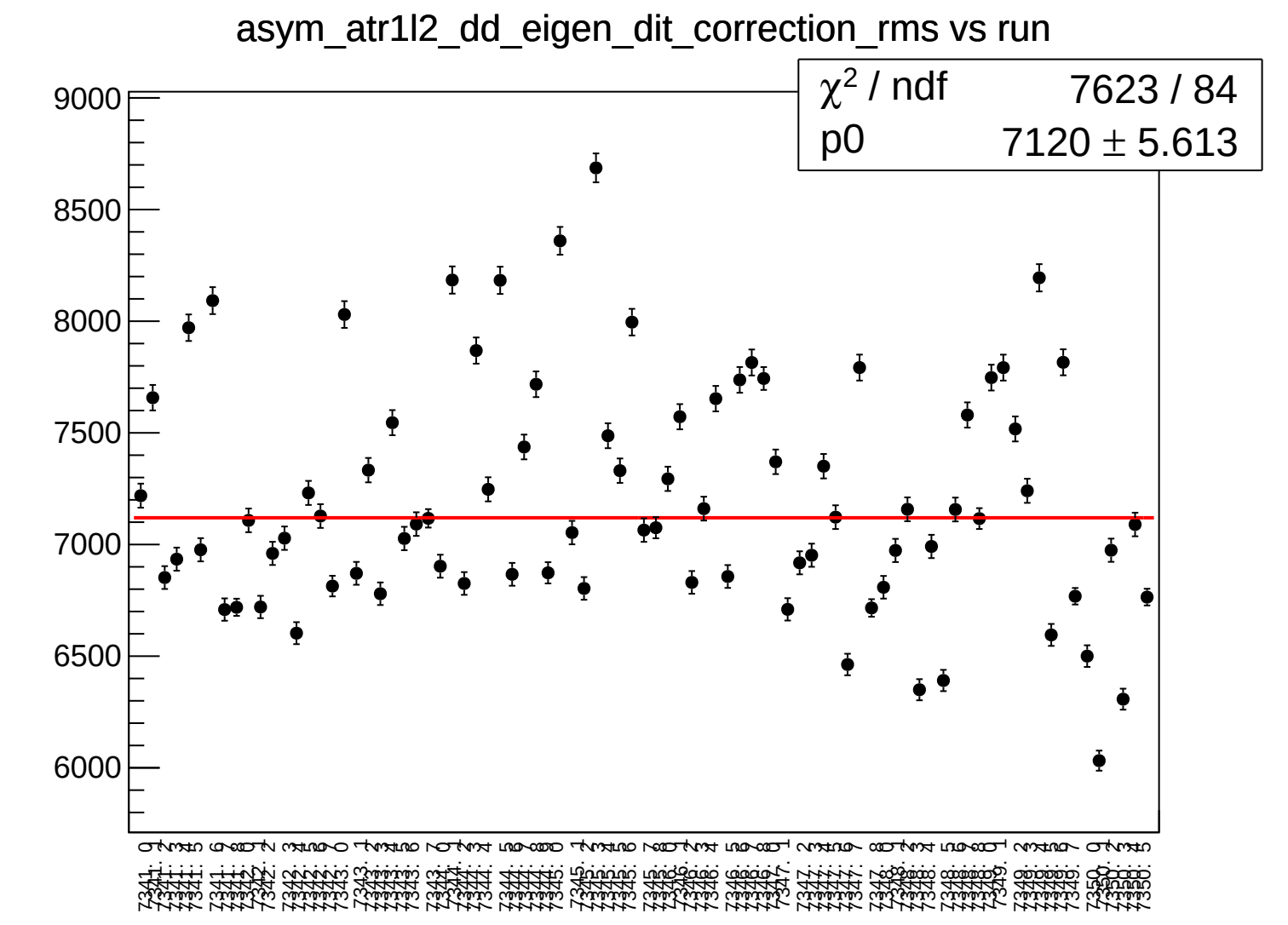

eigen_dit_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 84.54 / 84
p0 1930 ± 2267
pull
Entries 85
Mean 156.6
Std Dev 0

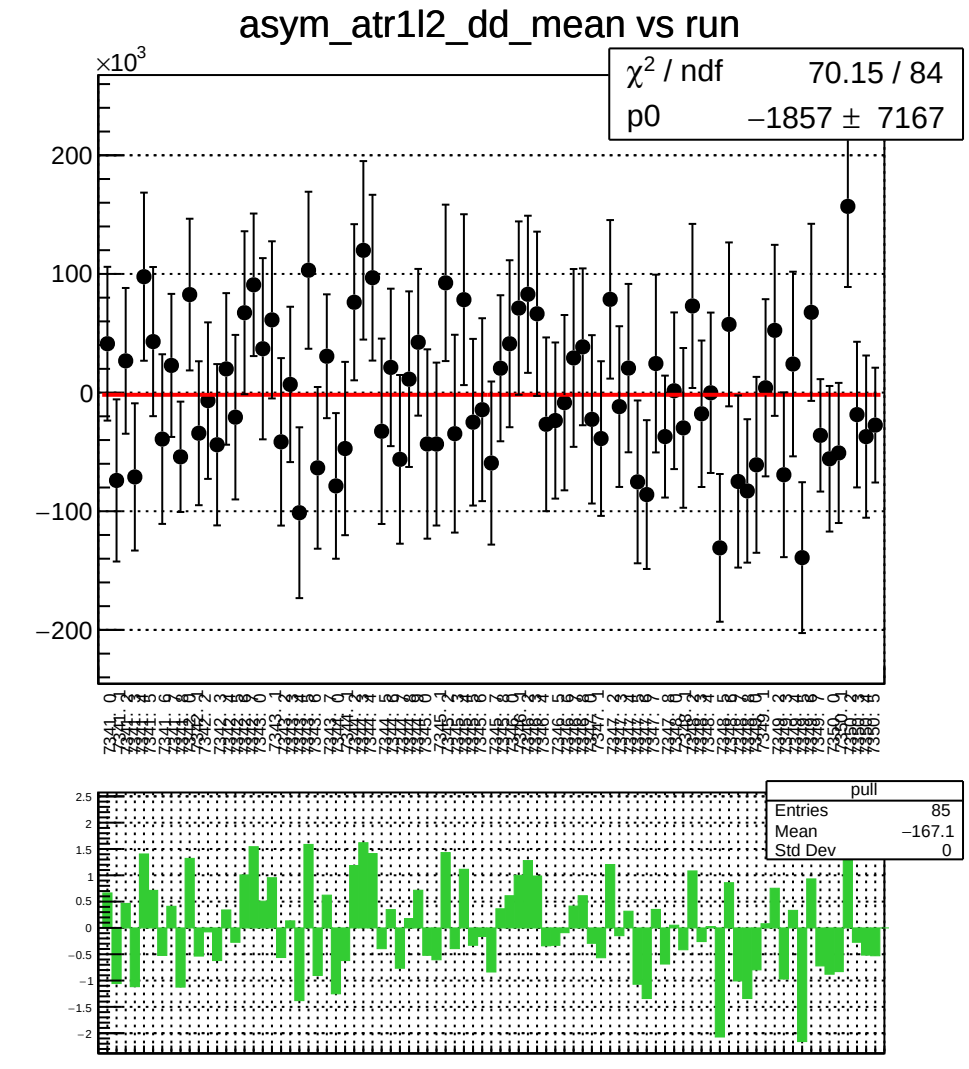

pull1D
Entries 85
Mean −0.009985
Std Dev 0.9972

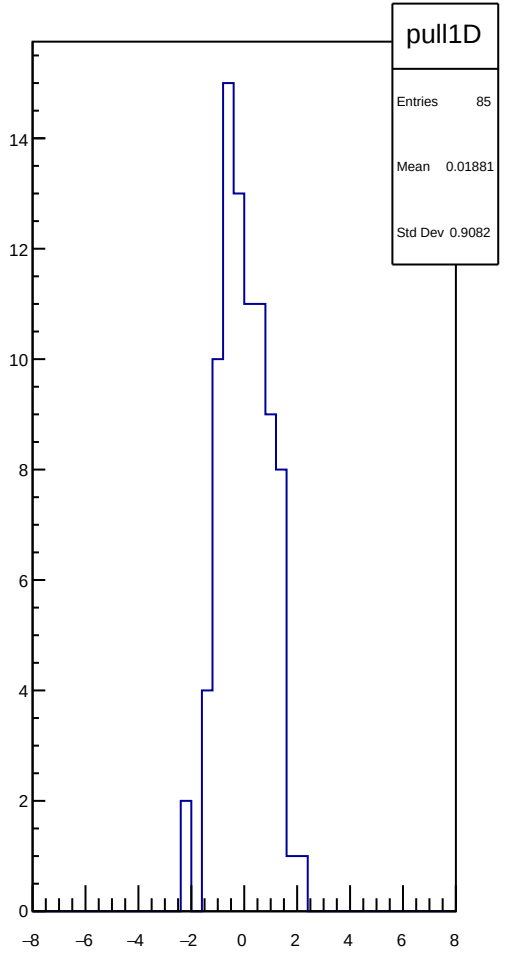

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 3886 / 84
p0 2036 ± 1.603
2600
2500
2400
2300
2200
2100
2000
1900

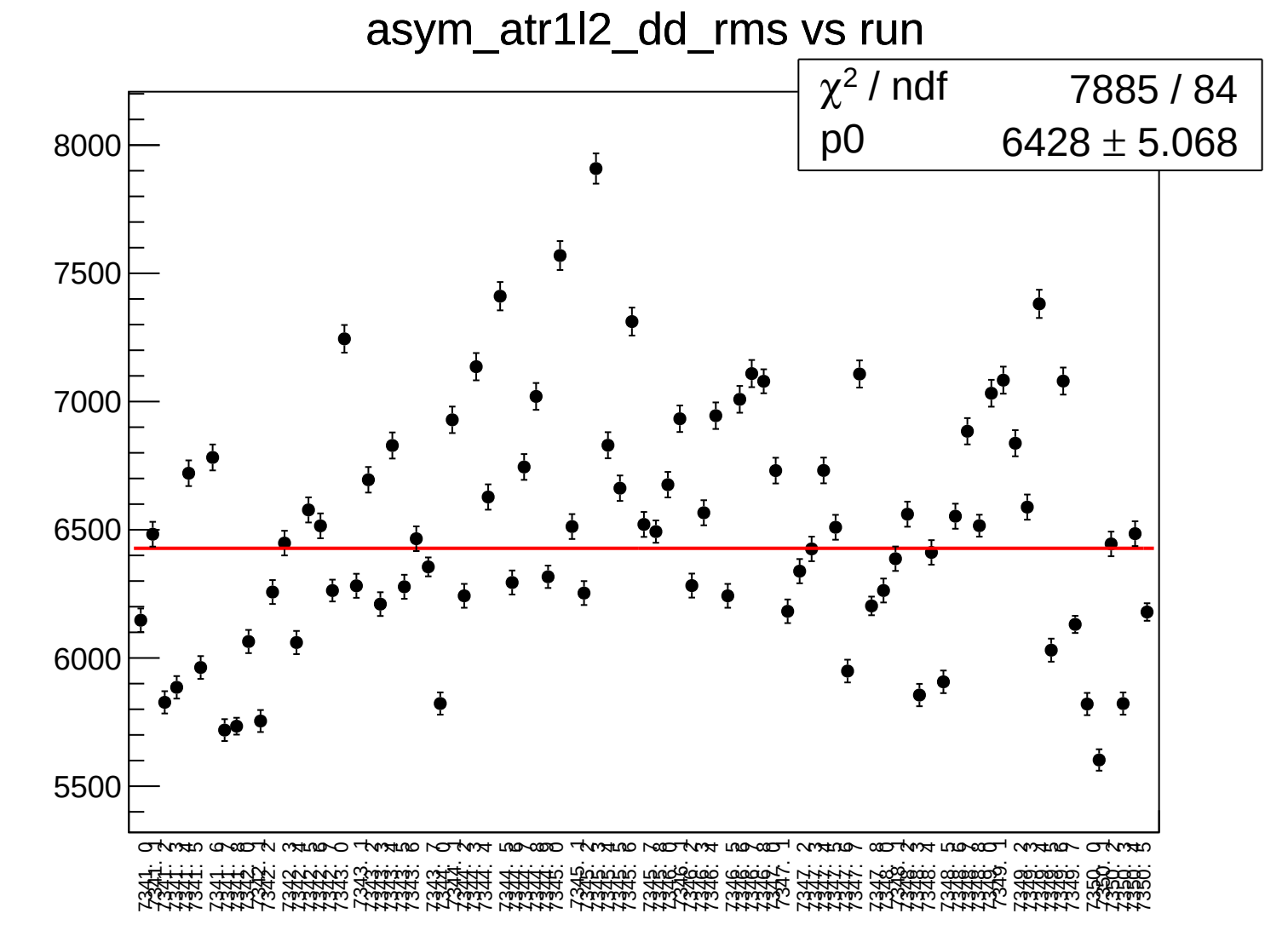

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.08 / 84
p0 3955 ± 7938
200
100
0
−100
−200
pull
Entries 85
Mean −114.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

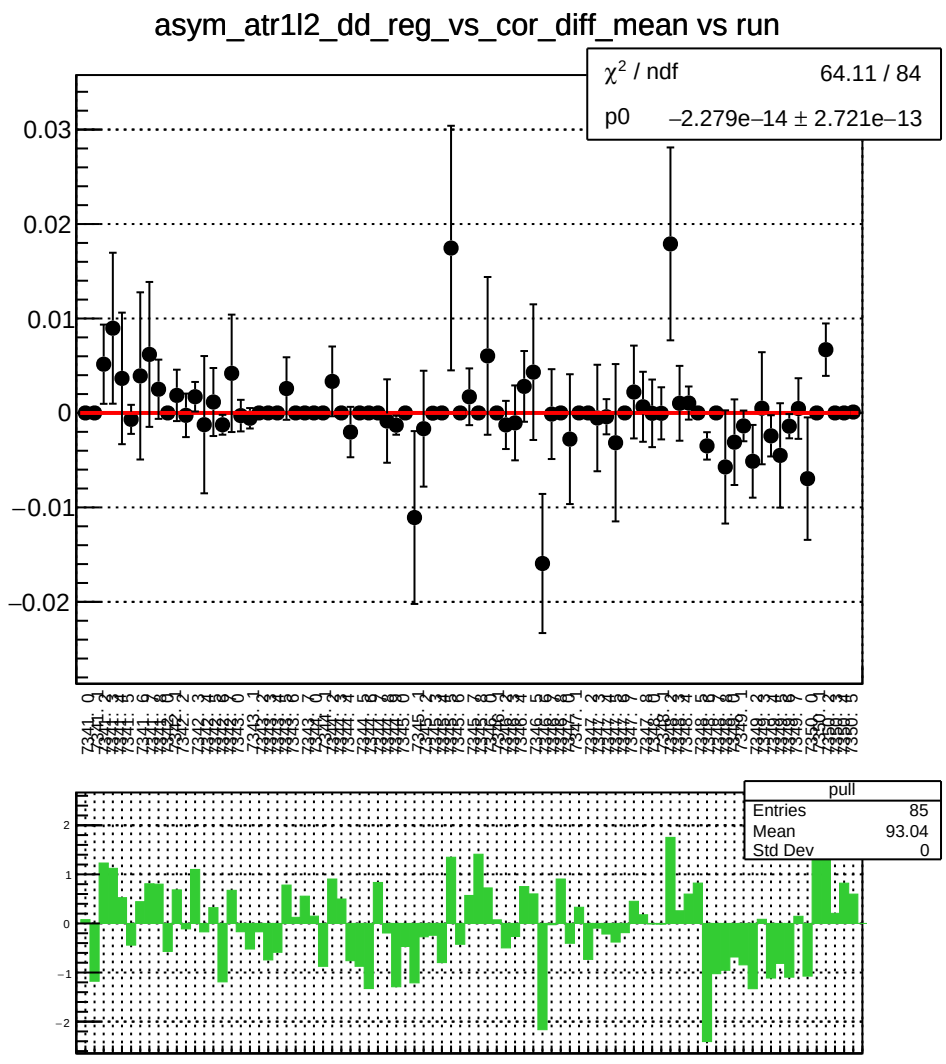

pull1D
Entries 85
Mean −0.02093
Std Dev 0.927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

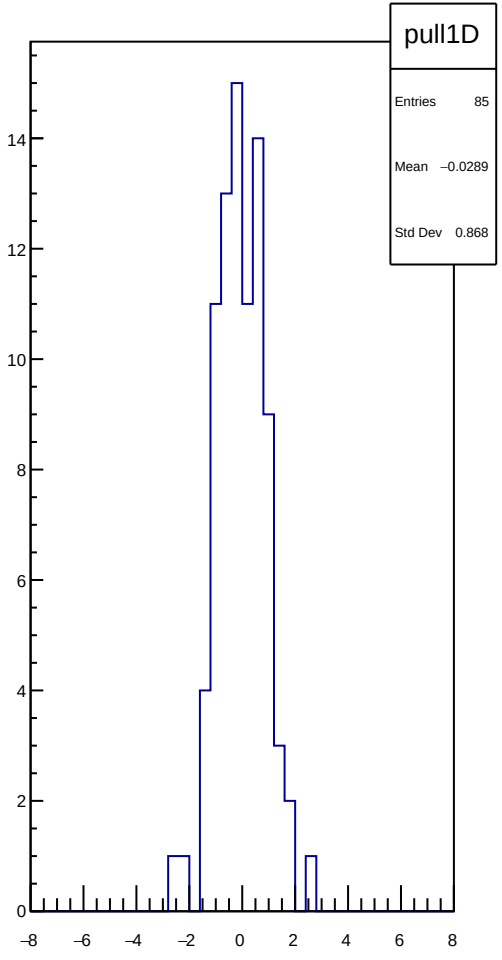

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7623 / 84
p0 7120 ± 5.613
9000
8500
8000
7500
7000
6500
6000

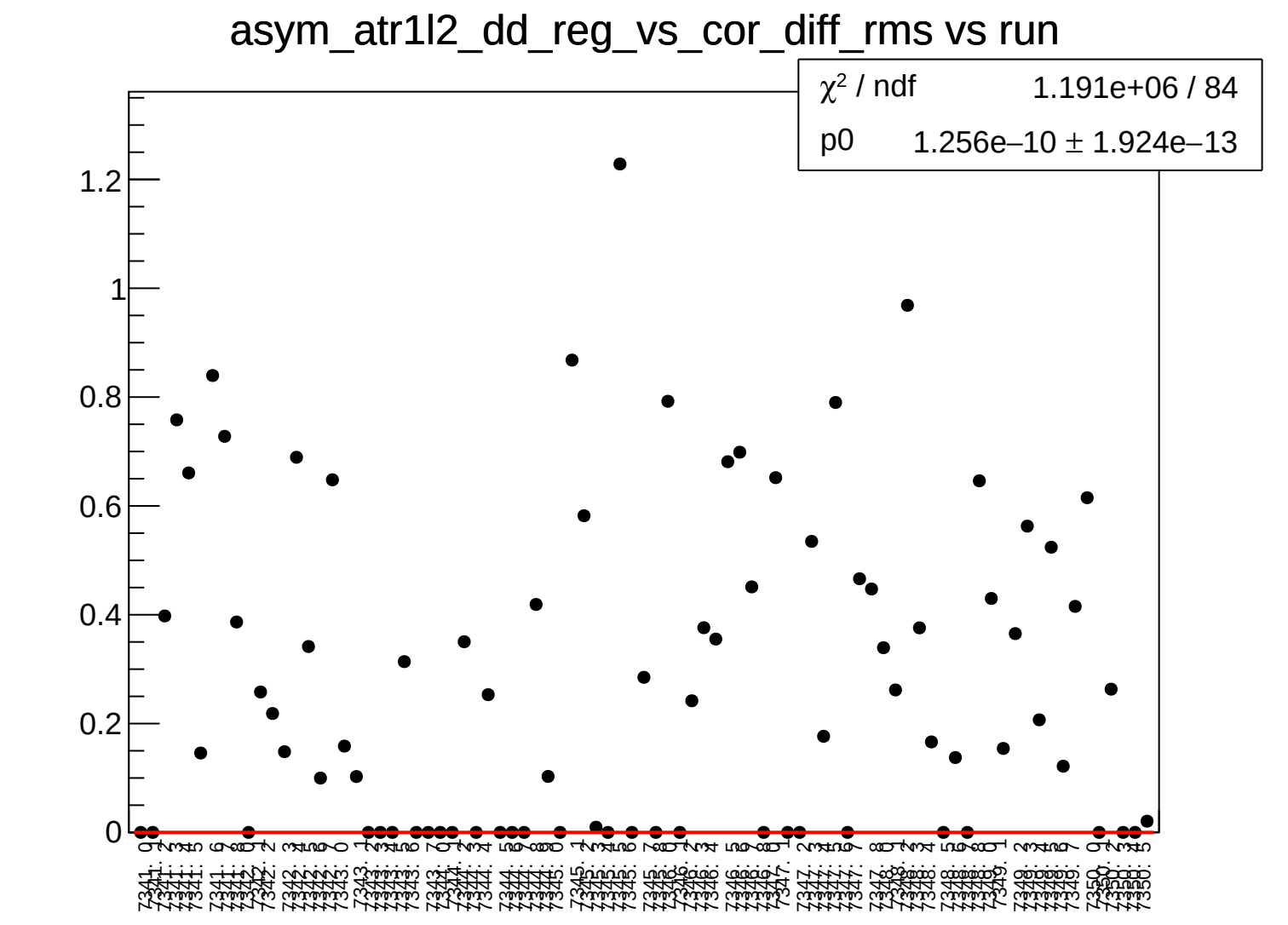

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 70.15 / 84
p0 −1857 ± 7167
200
100
0
−100
−200
pull
Entries 85
Mean −167.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

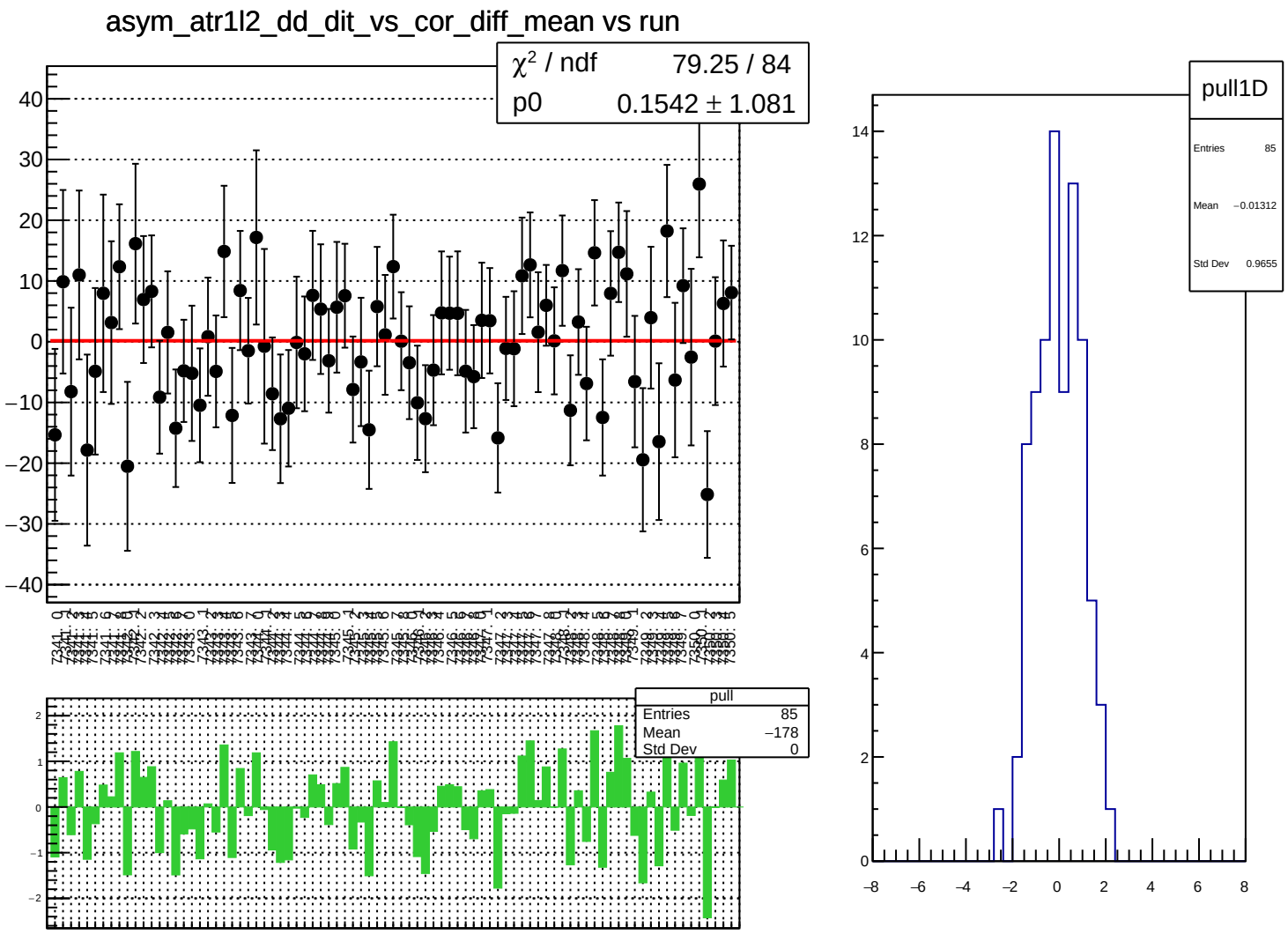

pull1D
Entries 85
Mean 0.01881
Std Dev 0.9082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

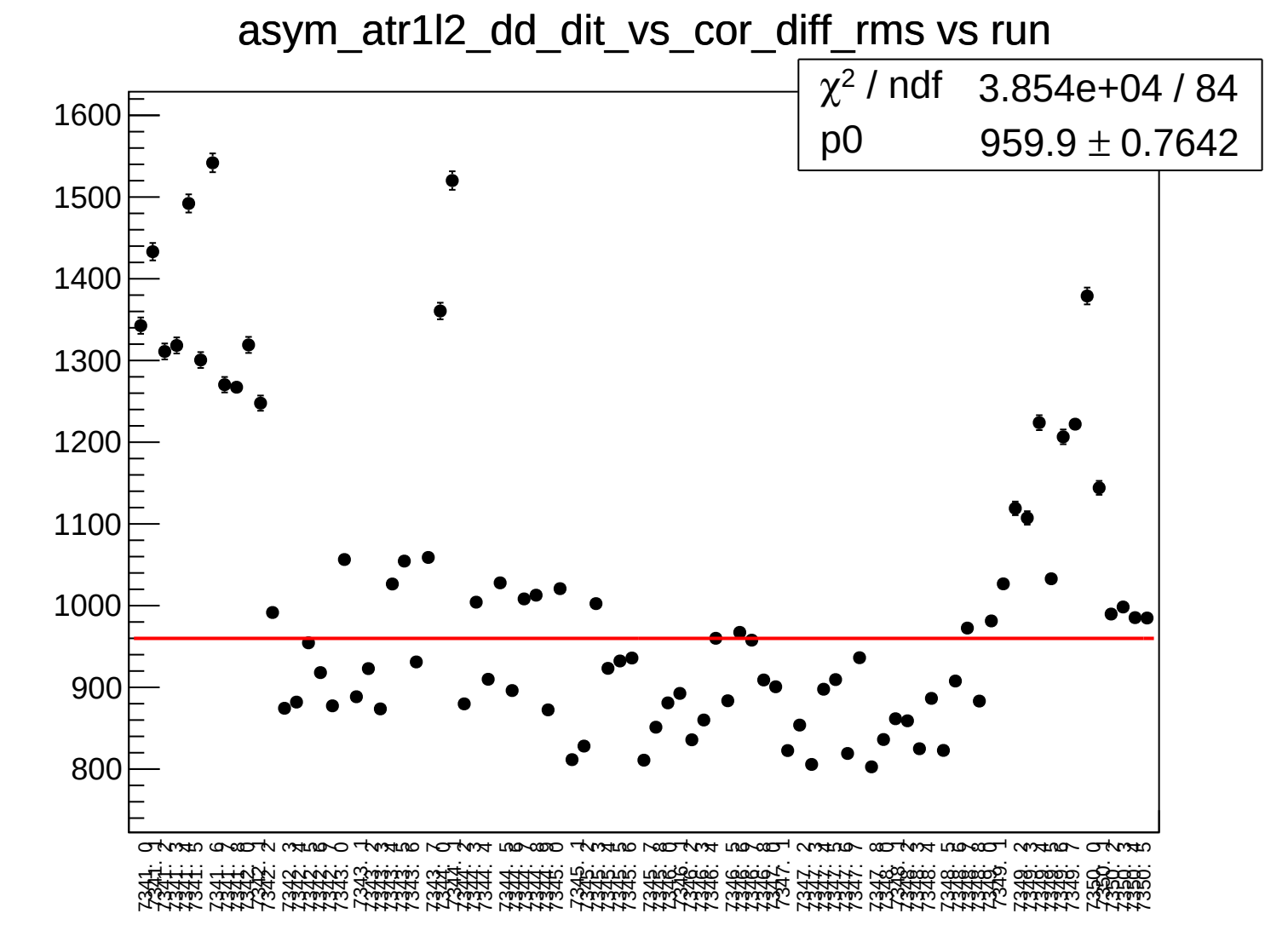

asym_atr1l2_dd_rms vs run
χ² / ndf 7885 / 84
p0 6428 ± 5.068
8000
7500
7000
6500
6000
5500

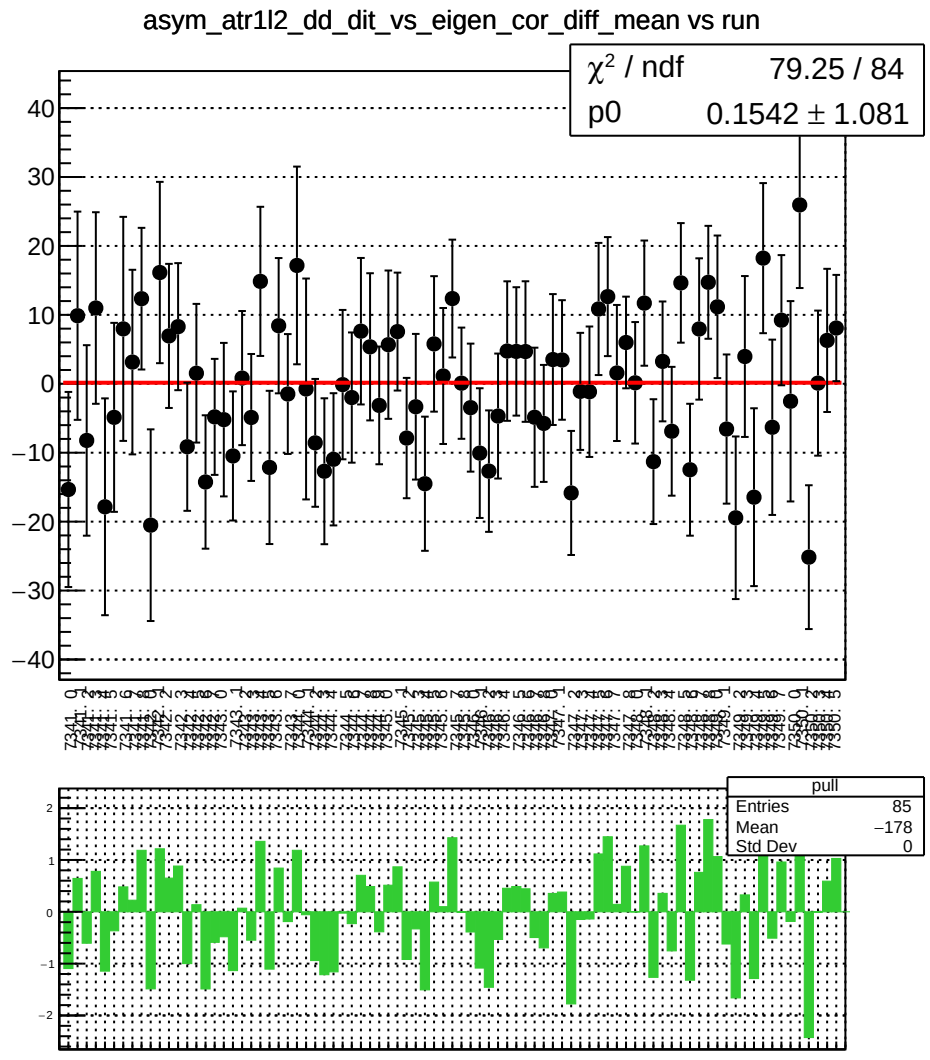

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.11 / 84
p0 −2.279e−14 ± 2.721e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean 93.04
Std Dev 0
2
1
0
−1
−2

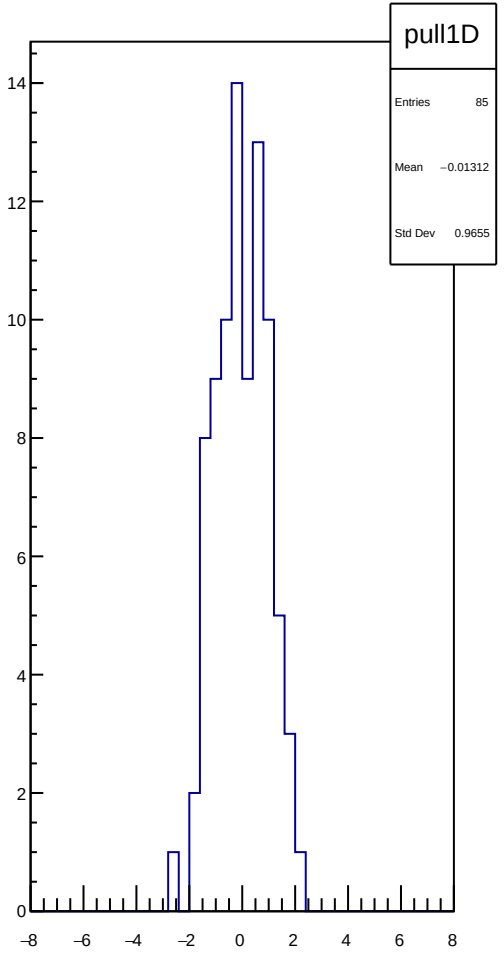

pull1D
Entries 85
Mean −0.0289
Std Dev 0.868
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

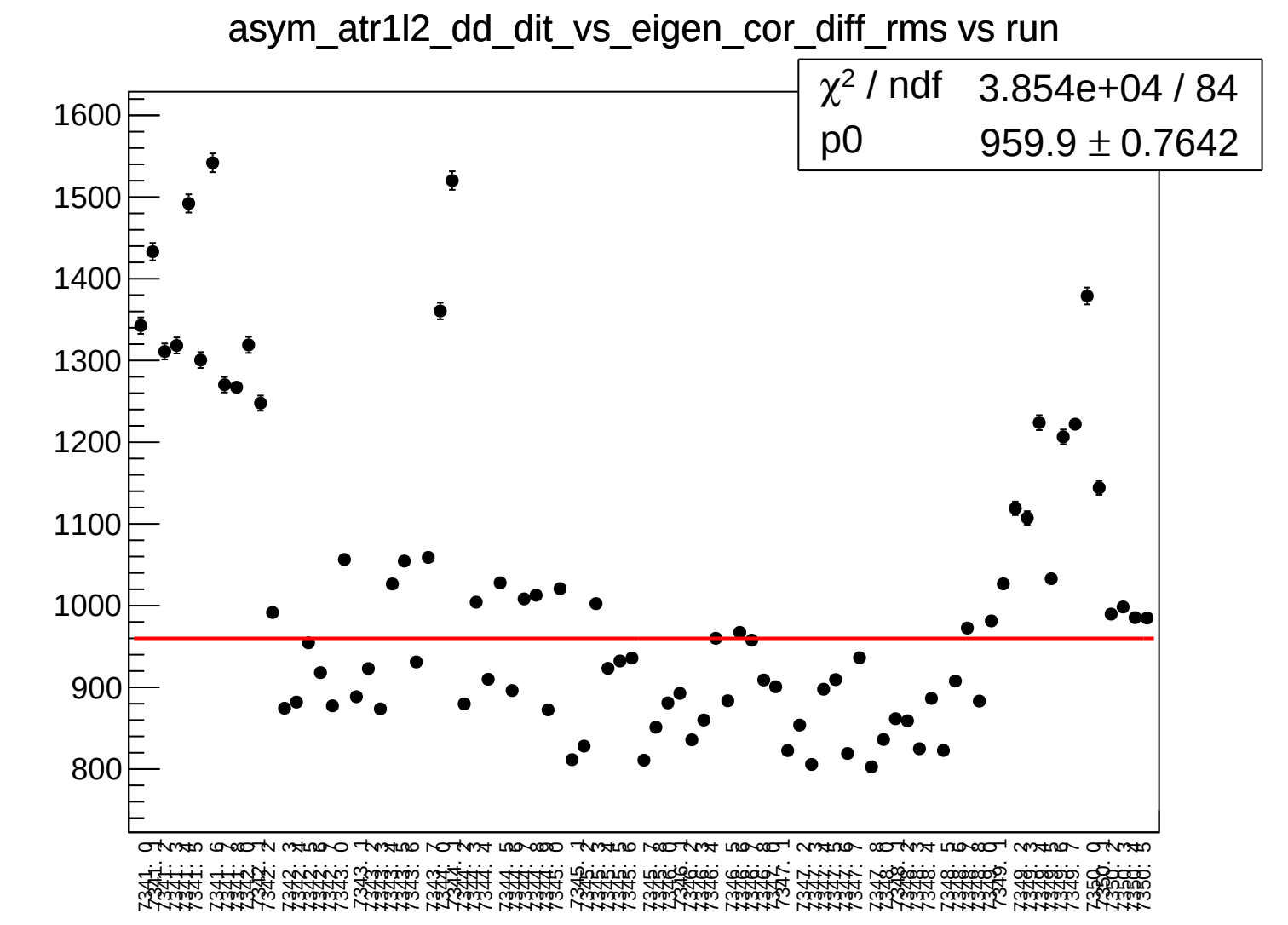

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.191e+06 / 84
p0 1.256e−10 ± 1.924e−13
1.2
1
0.8
0.6
0.4
0.2
0

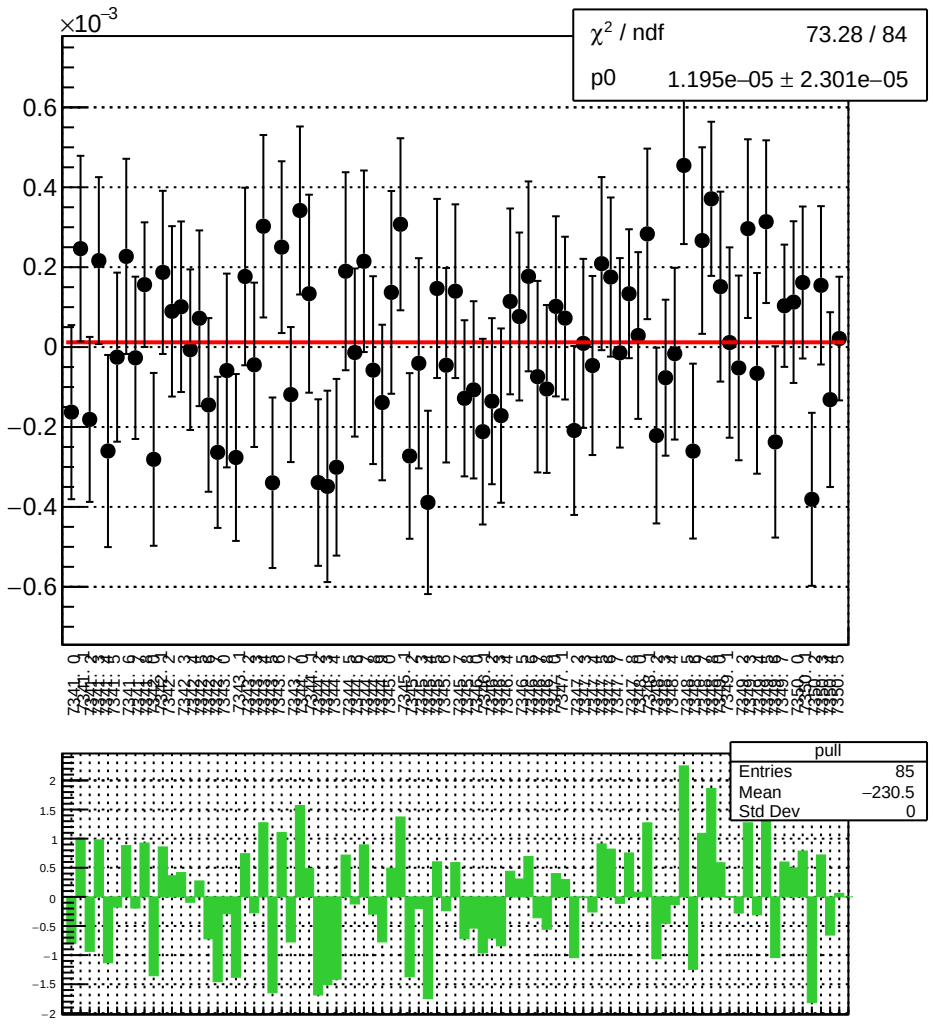

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.1542 ± 1.081
pull
Entries 85
Mean −178
Std Dev 0
pull1D
Entries 85
Mean −0.01312
Std Dev 0.9655

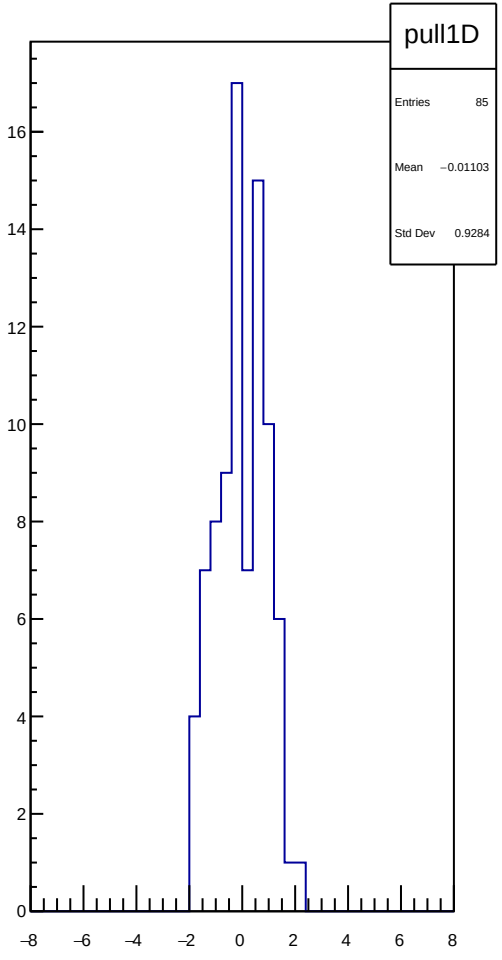

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.854e+04 / 84
p0 959.9 ± 0.7642
1600
1500
1400
1300
1200
1100
1000
900
800

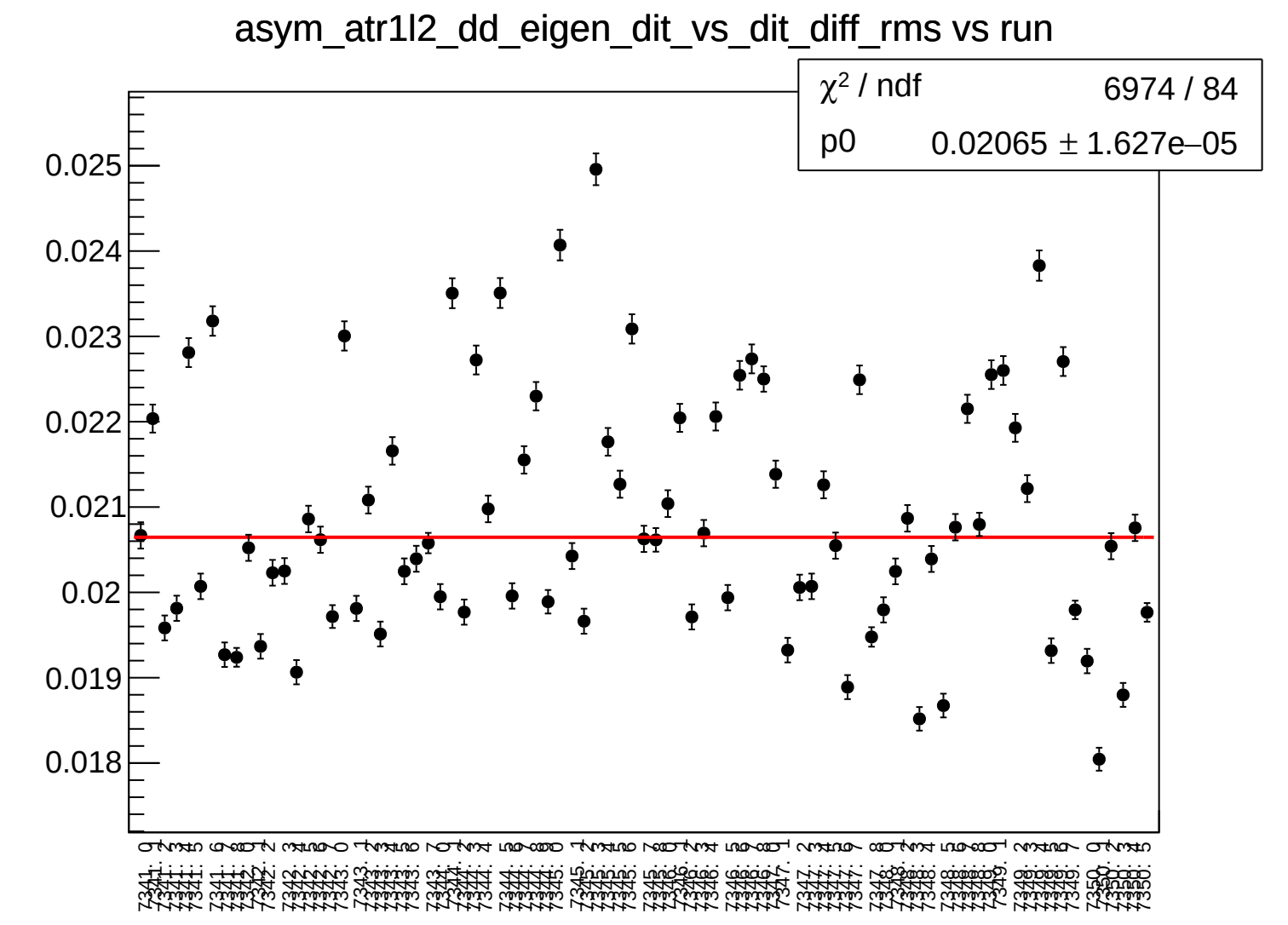

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.1542 ± 1.081
pull
Entries 85
Mean −178
Std Dev 0

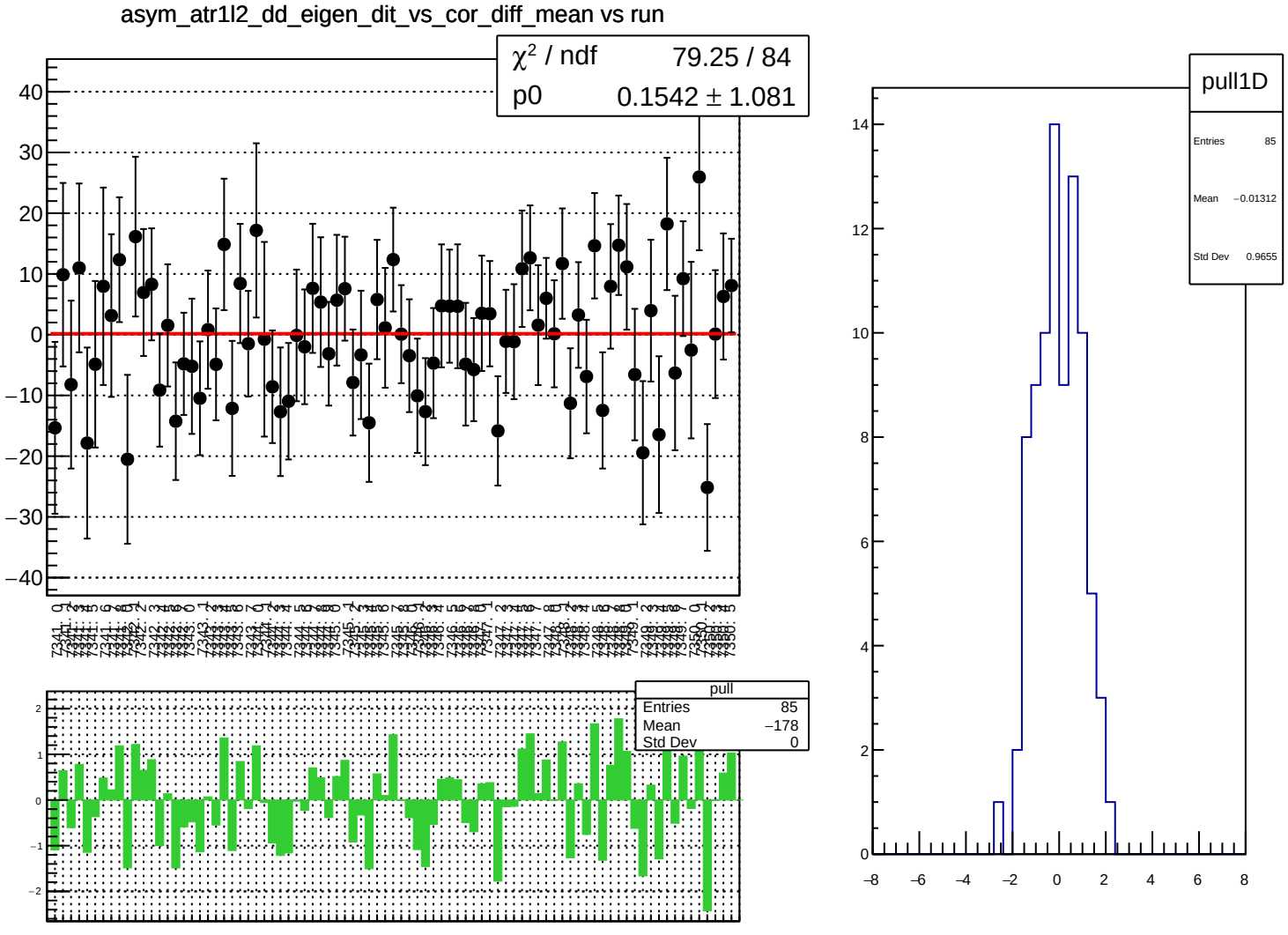

pull1D
Entries 85
Mean −0.01312
Std Dev 0.9655

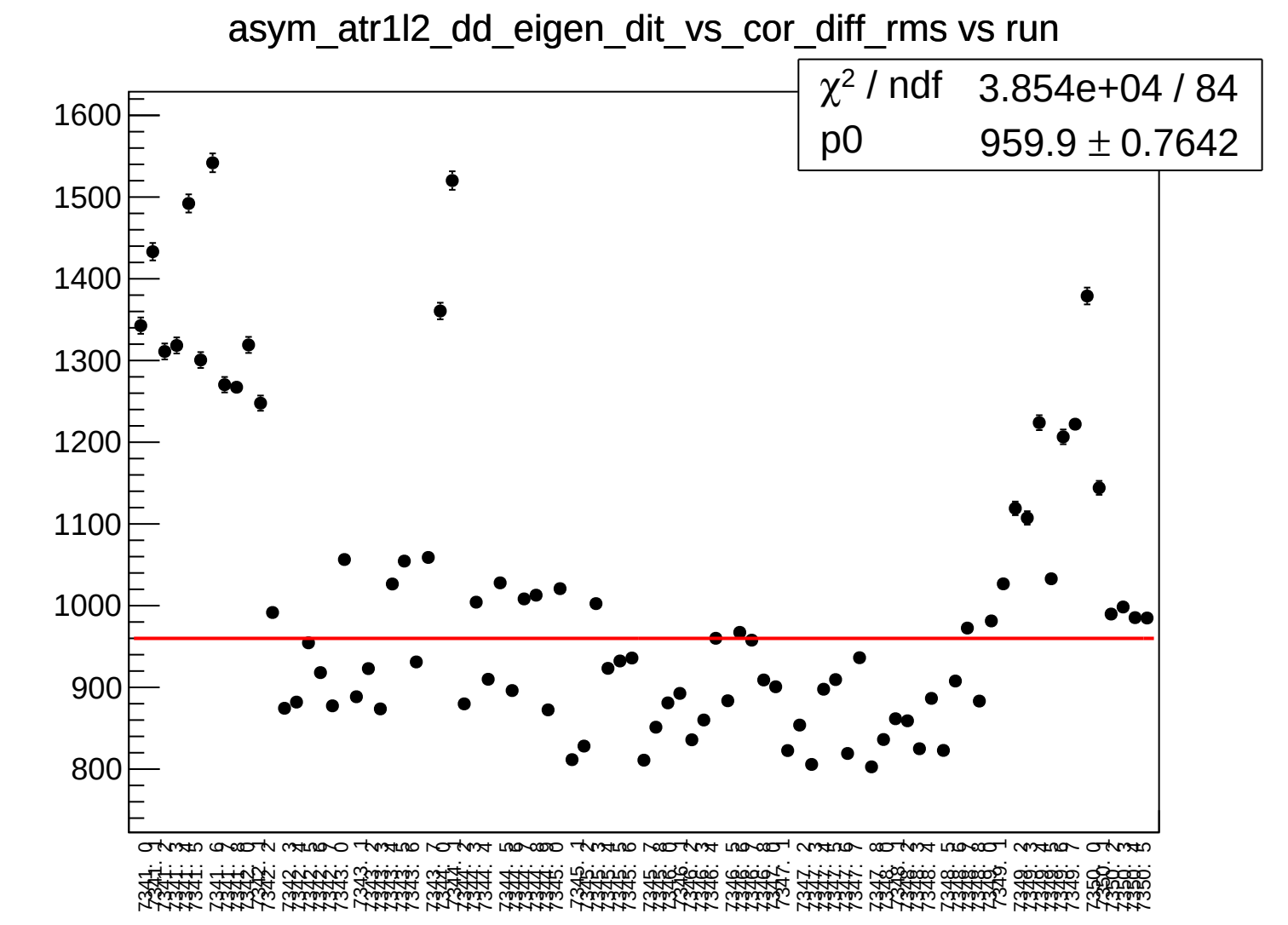

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.854e+04 / 84
p0 959.9 ± 0.7642
1600
1500
1400
1300
1200
1100
1000
900
800

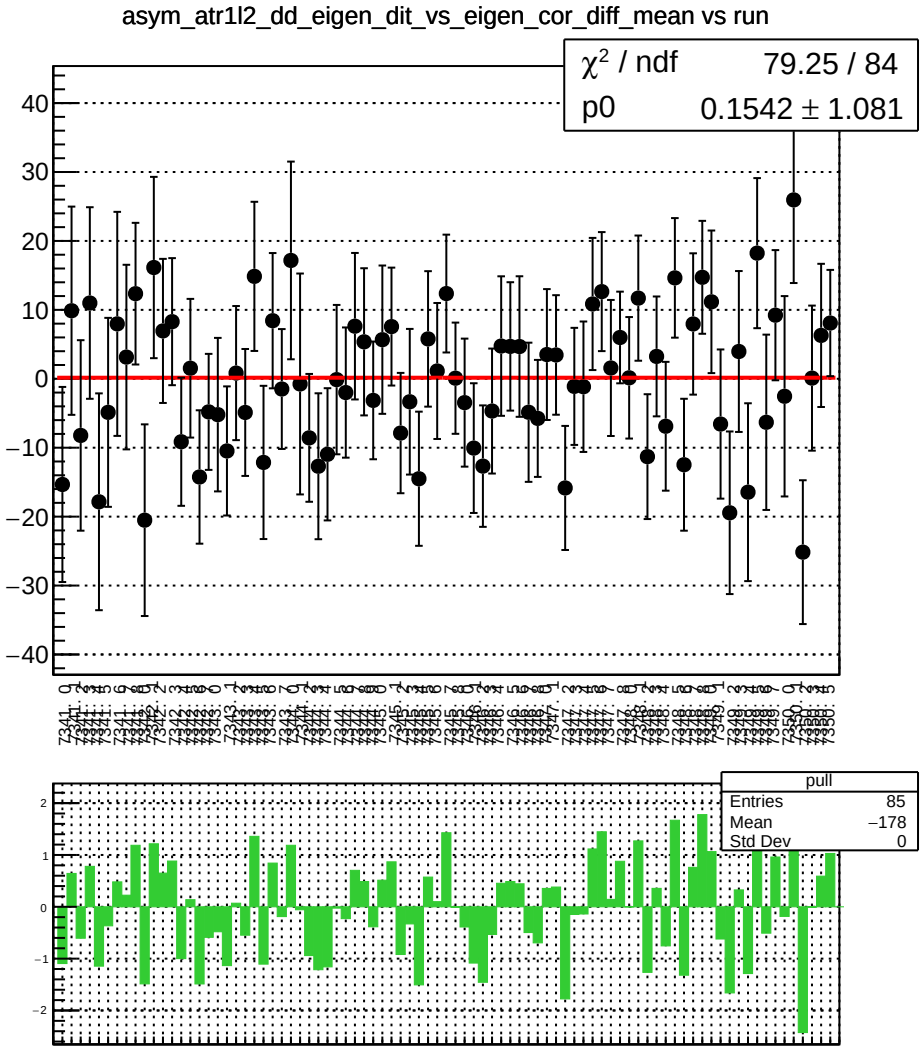

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.28 / 84
p0 1.195e−05 ± 2.301e−05
pull
Entries 85
Mean −230.5
Std Dev 0

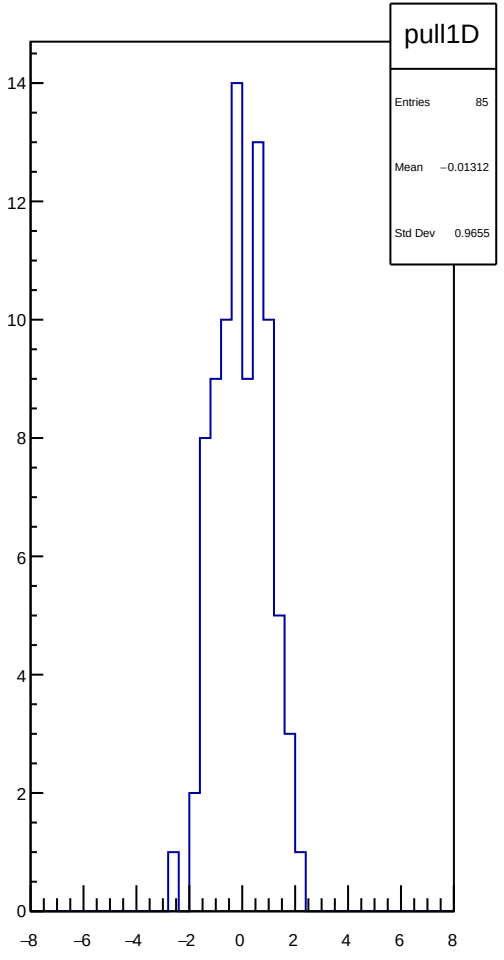

pull1D
Entries 85
Mean −0.01103
Std Dev 0.9284

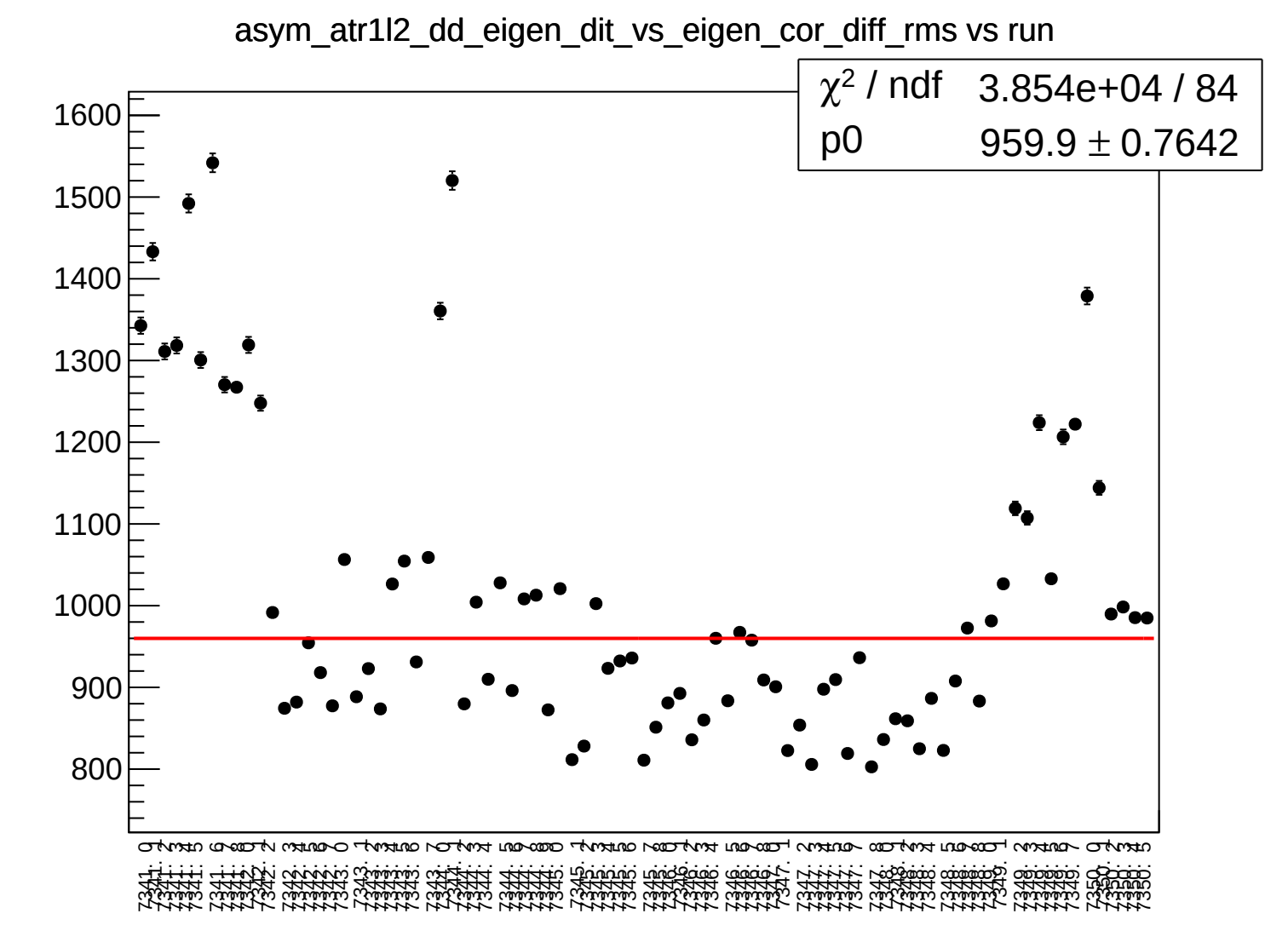

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6974 / 84
p0 0.02065 ± 1.627e–05
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018

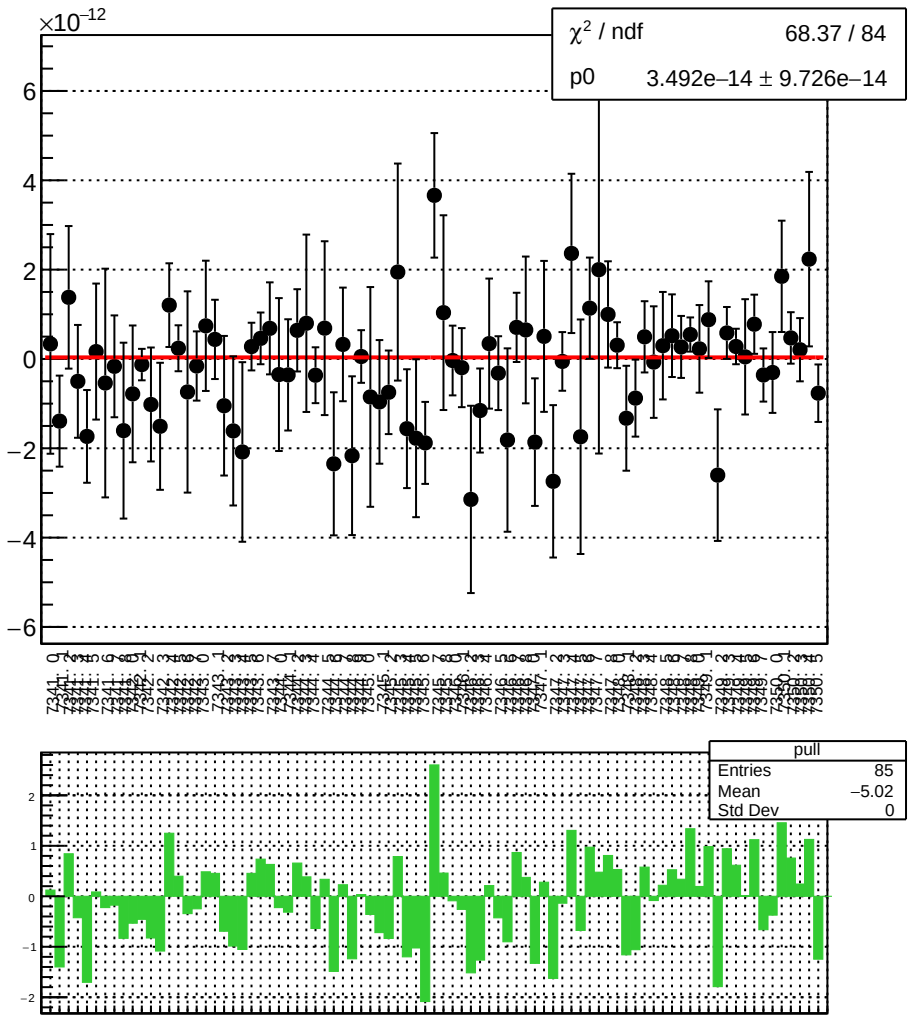

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.1542 ± 1.081
pull
Entries 85
Mean −178
Std Dev 0
pull1D
Entries 85
Mean −0.01312
Std Dev 0.9655

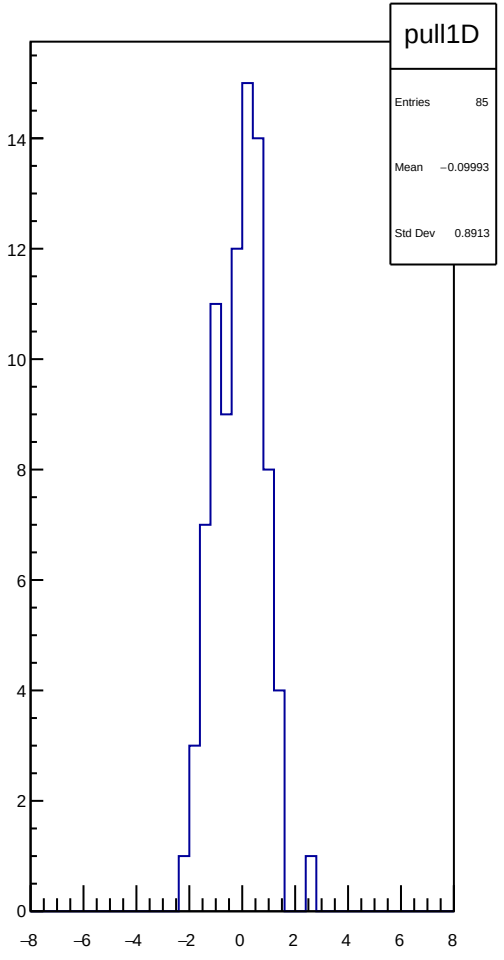

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.854e+04 / 84
p0 959.9 ± 0.7642
1600
1500
1400
1300
1200
1100
1000
900
800

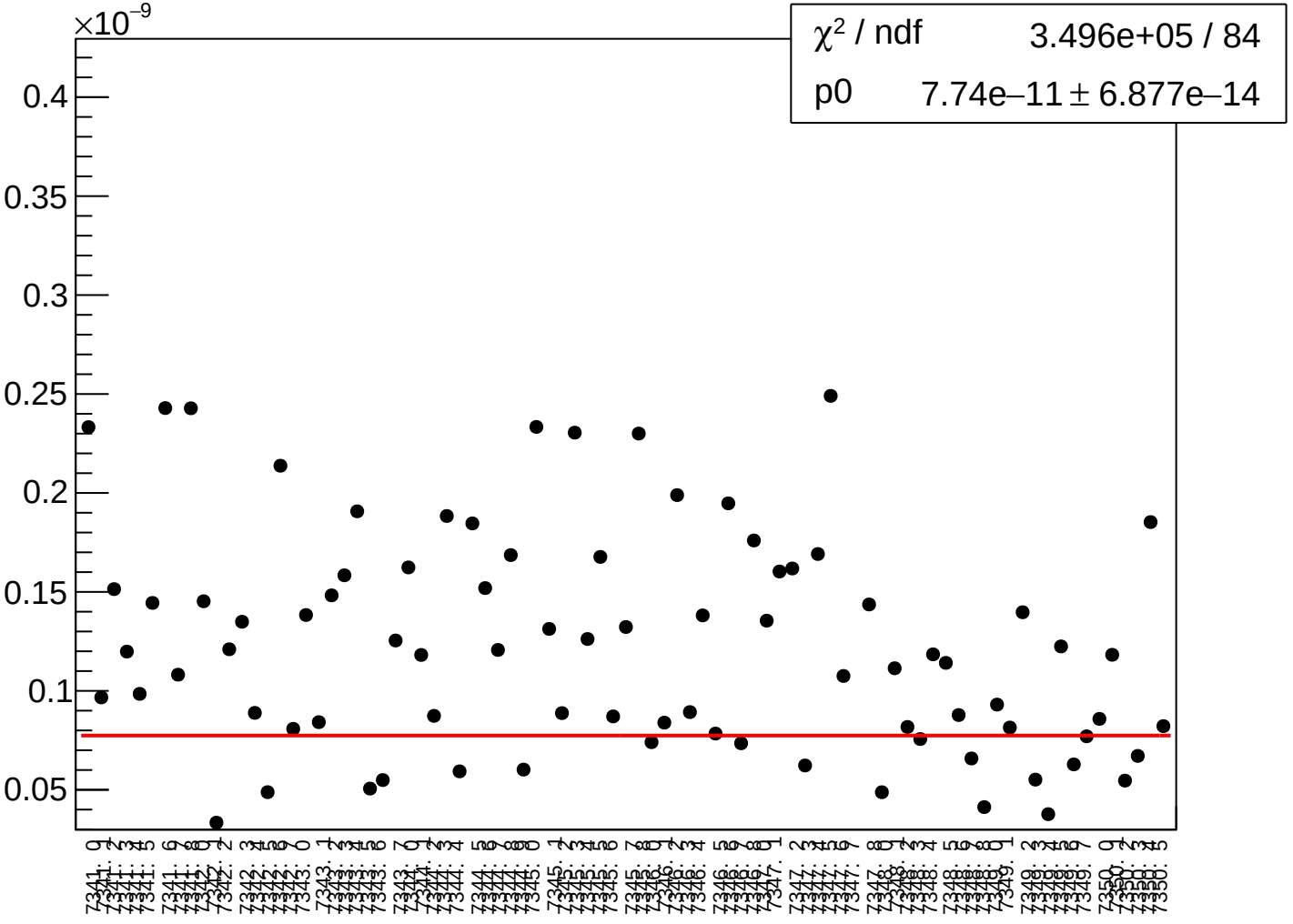

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.25 / 84
p0 0.1542 ± 1.081
pull
Entries 85
Mean −178
Std Dev 0

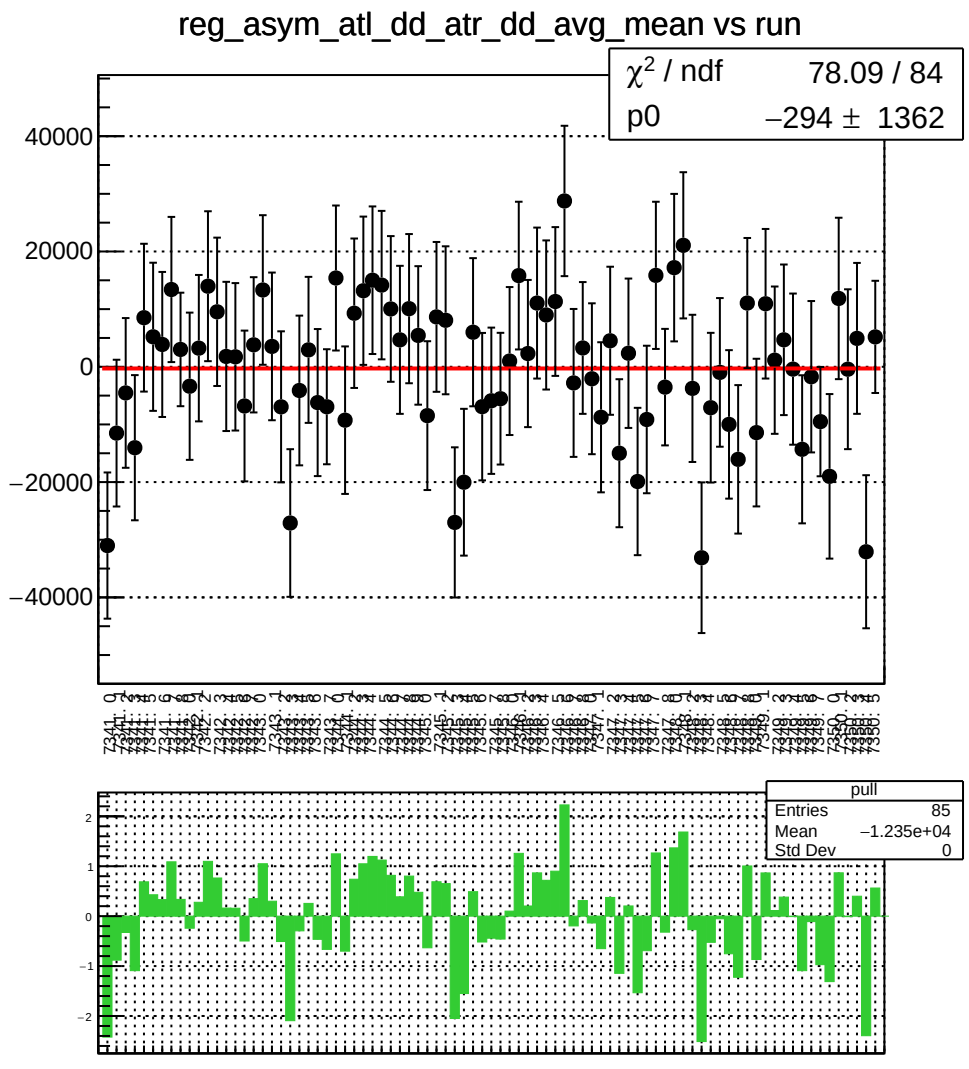

pull1D
Entries 85
Mean −0.01312
Std Dev 0.9655

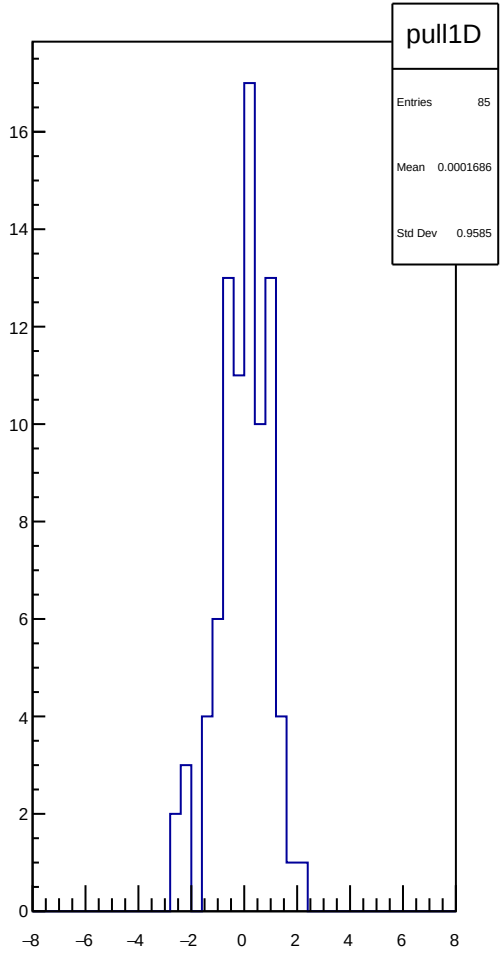

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.854e+04 / 84
p0 959.9 ± 0.7642
1600
1500
1400
1300
1200
1100
1000
900
800

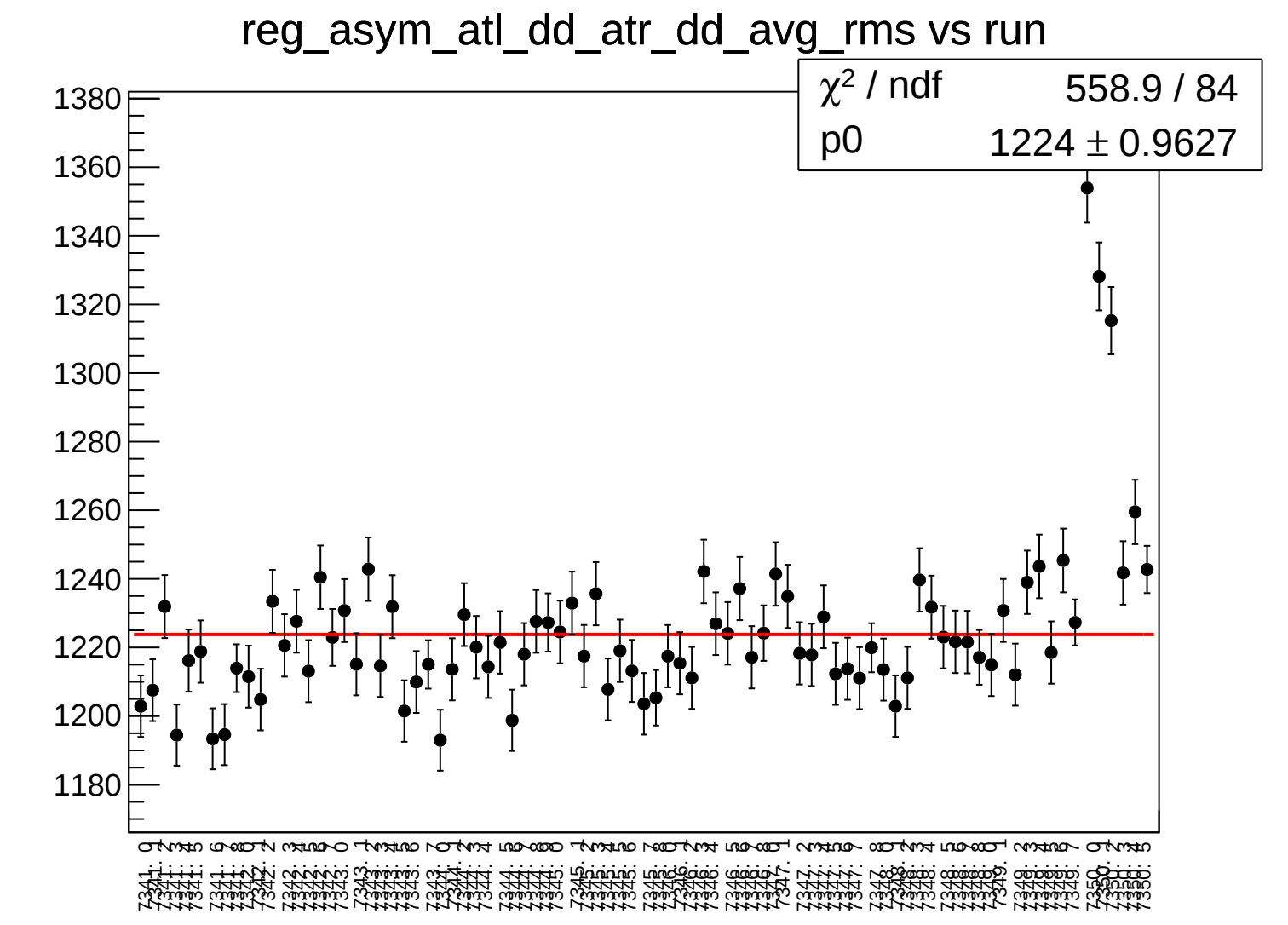

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.37 / 84
p0 3.492e−14 ± 9.726e−14
pull
Entries 85
Mean −5.02
Std Dev 0

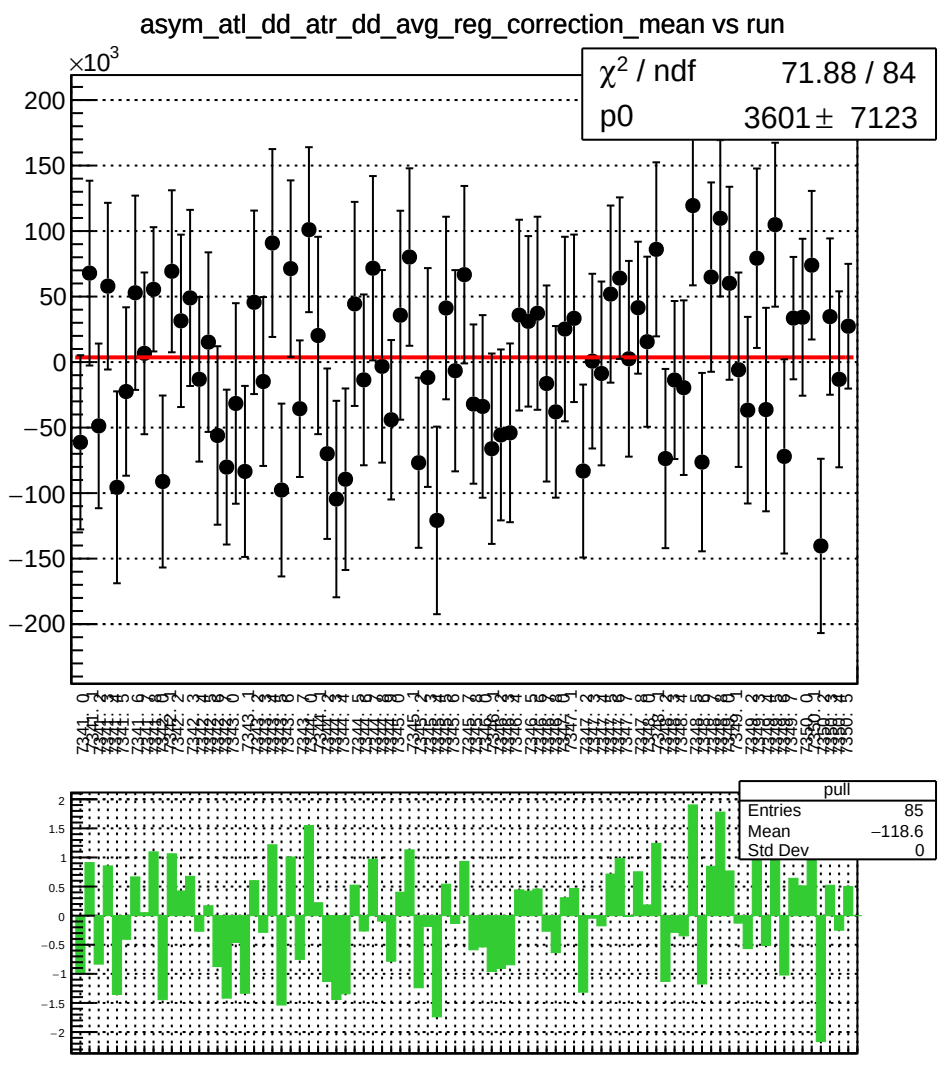

pull1D
Entries 85
Mean −0.09993
Std Dev 0.8913

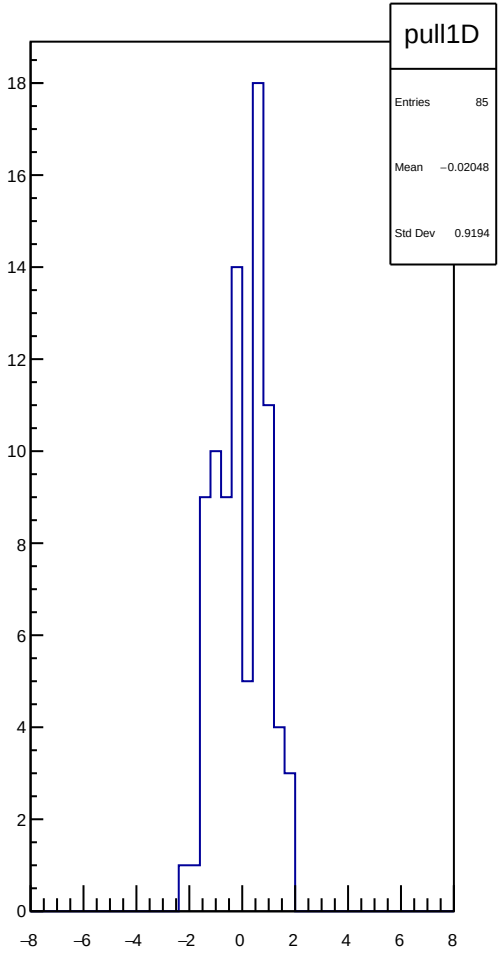

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.496e+05 / 84
p0 7.74e−11 ± 6.877e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

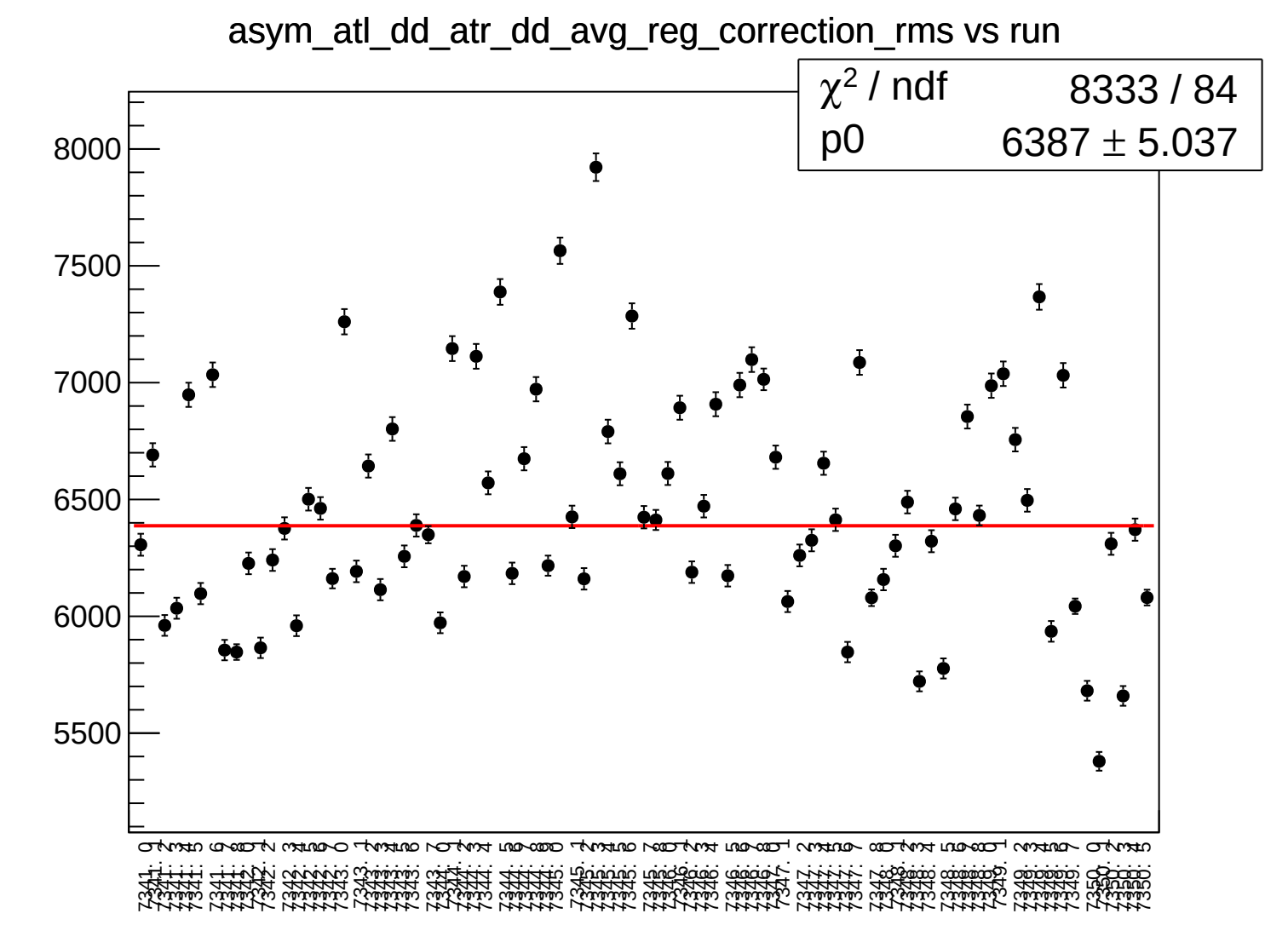

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.09 / 84
p0 −294 ± 1362
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.235e+04
Std Dev 0
2
1
0
−1
−2

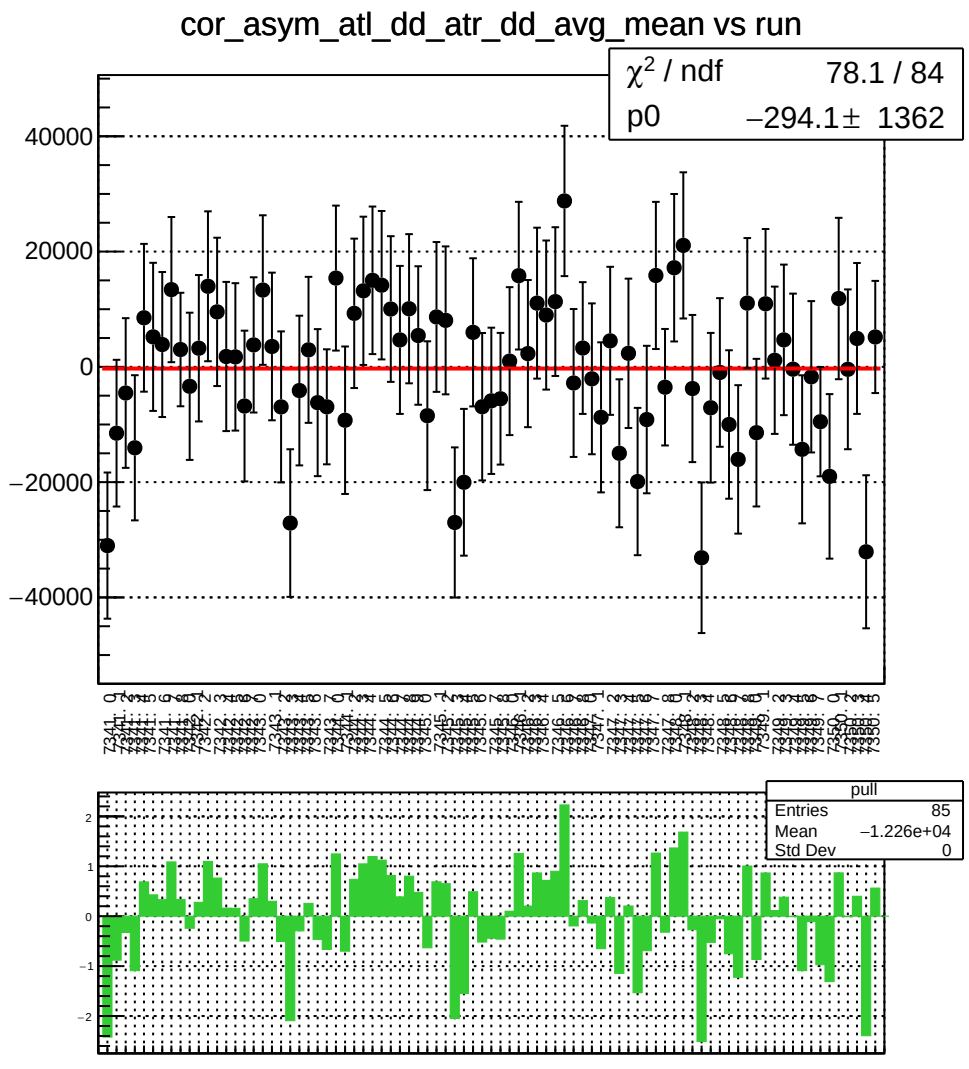

pull1D
Entries 85
Mean 0.0001686
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

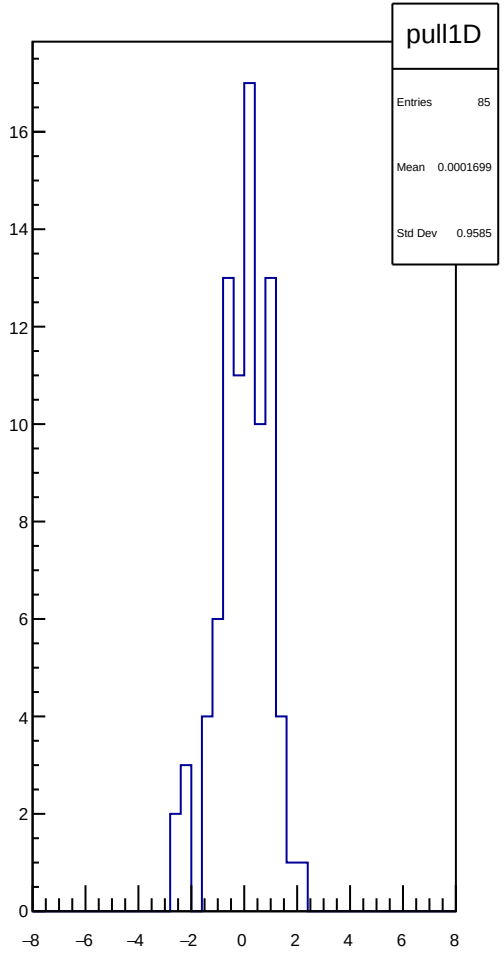

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 558.9 / 84
p0 1224 ± 0.9627
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

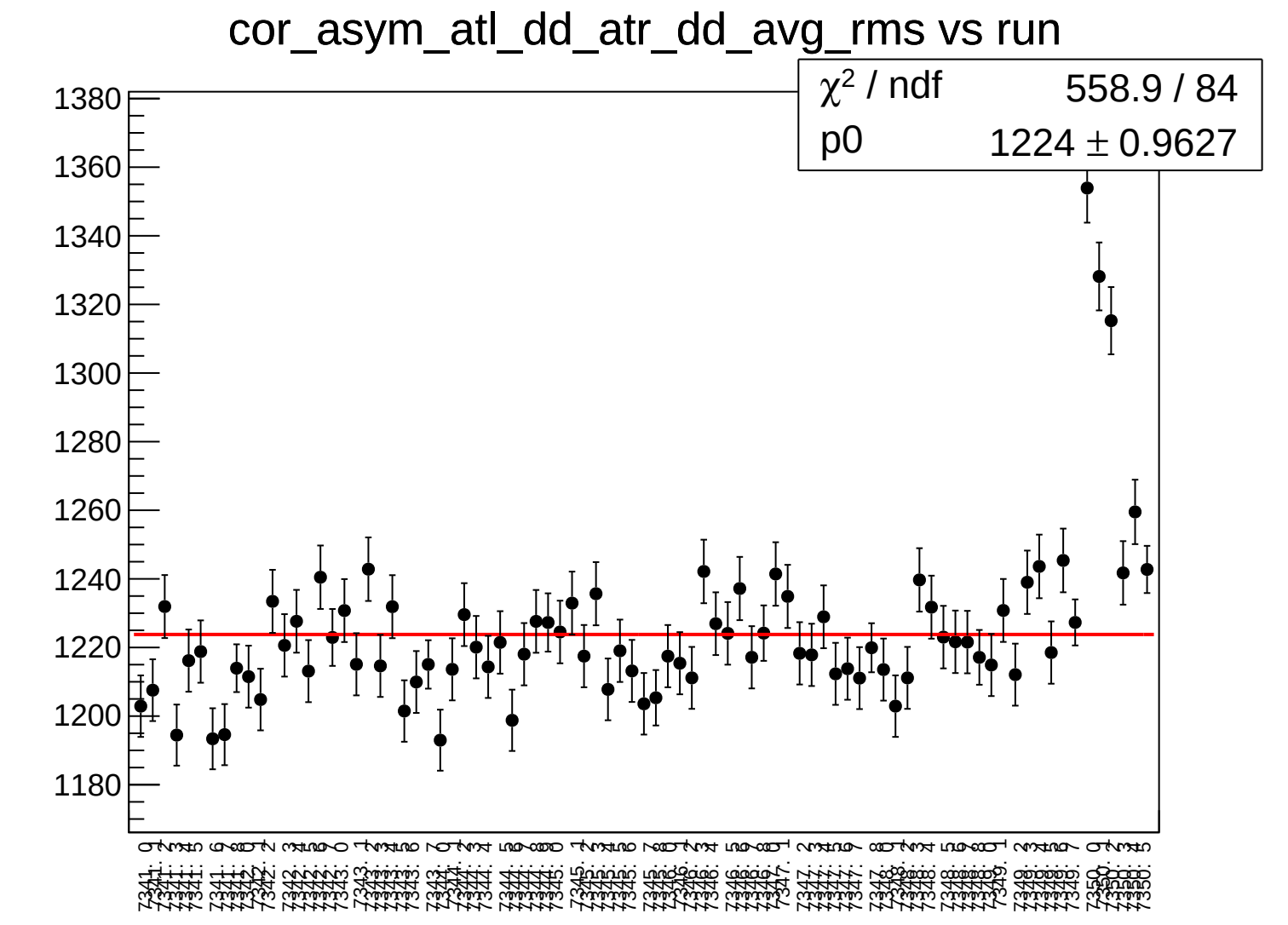

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 71.88 / 84
p0 3601 ± 7123
pull
Entries 85
Mean −118.6
Std Dev 0

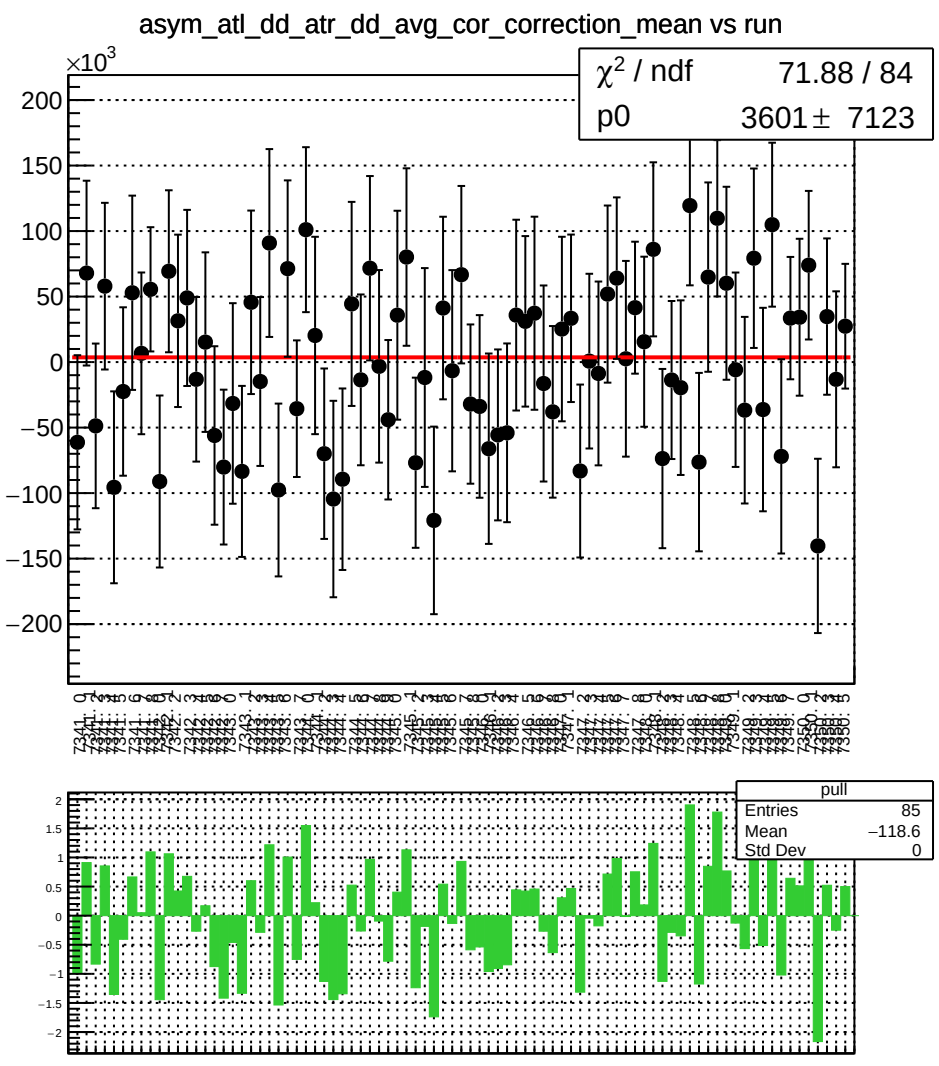

pull1D
Entries 85
Mean −0.02048
Std Dev 0.9194

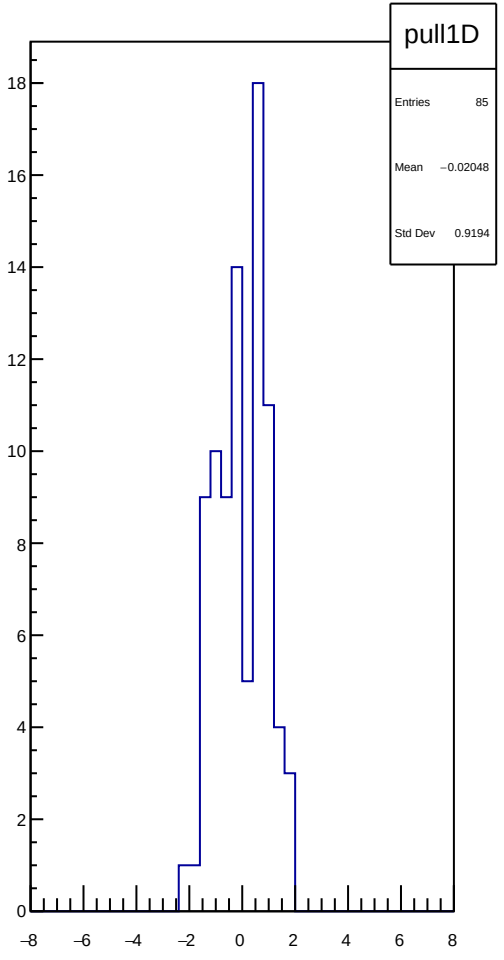

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 8333 / 84
p0 6387 ± 5.037
8000
7500
7000
6500
6000
5500

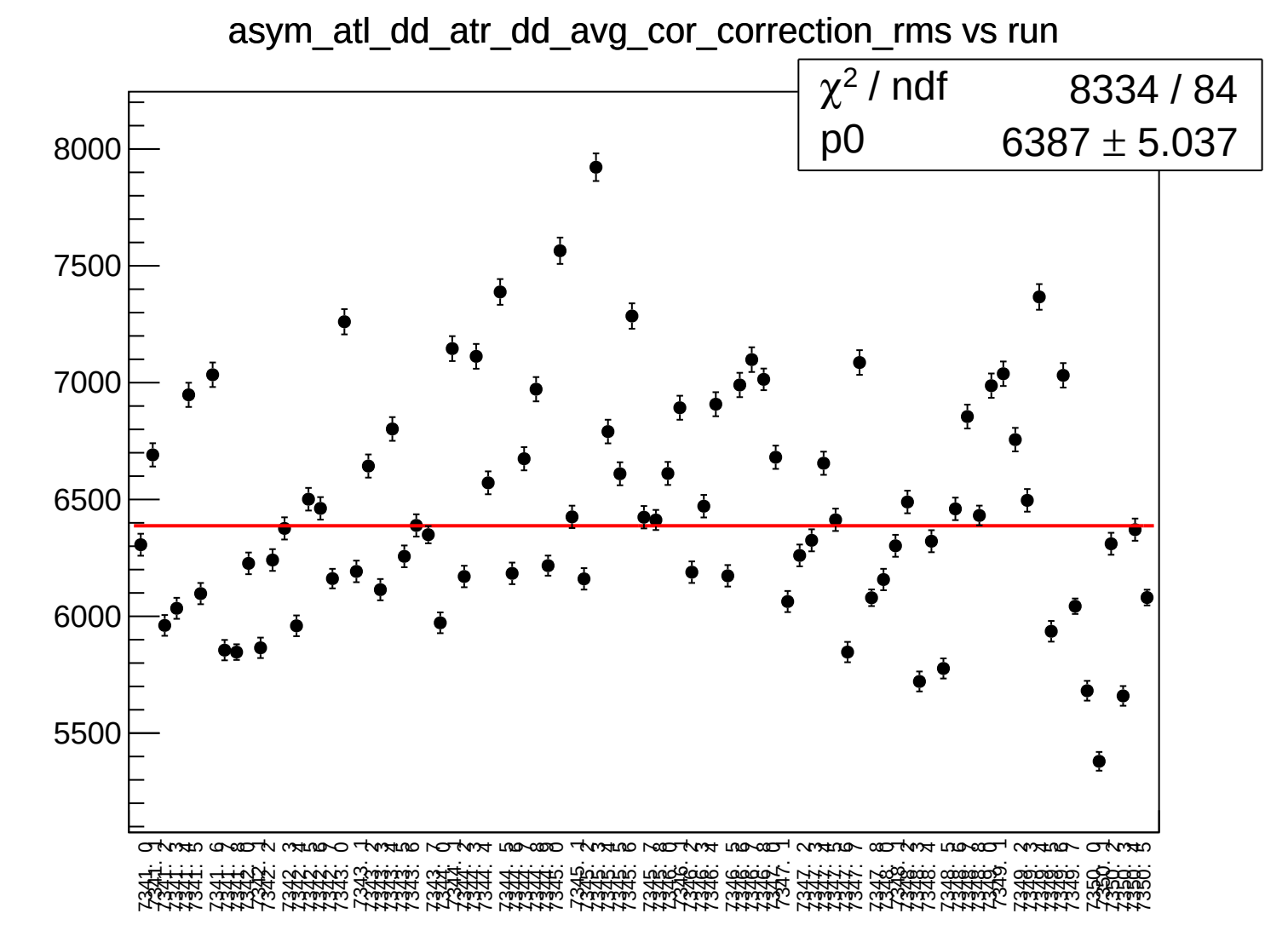

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.1 / 84
p0 −294.1± 1362
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.226e+04
Std Dev 0
2
1
0
−1
−2

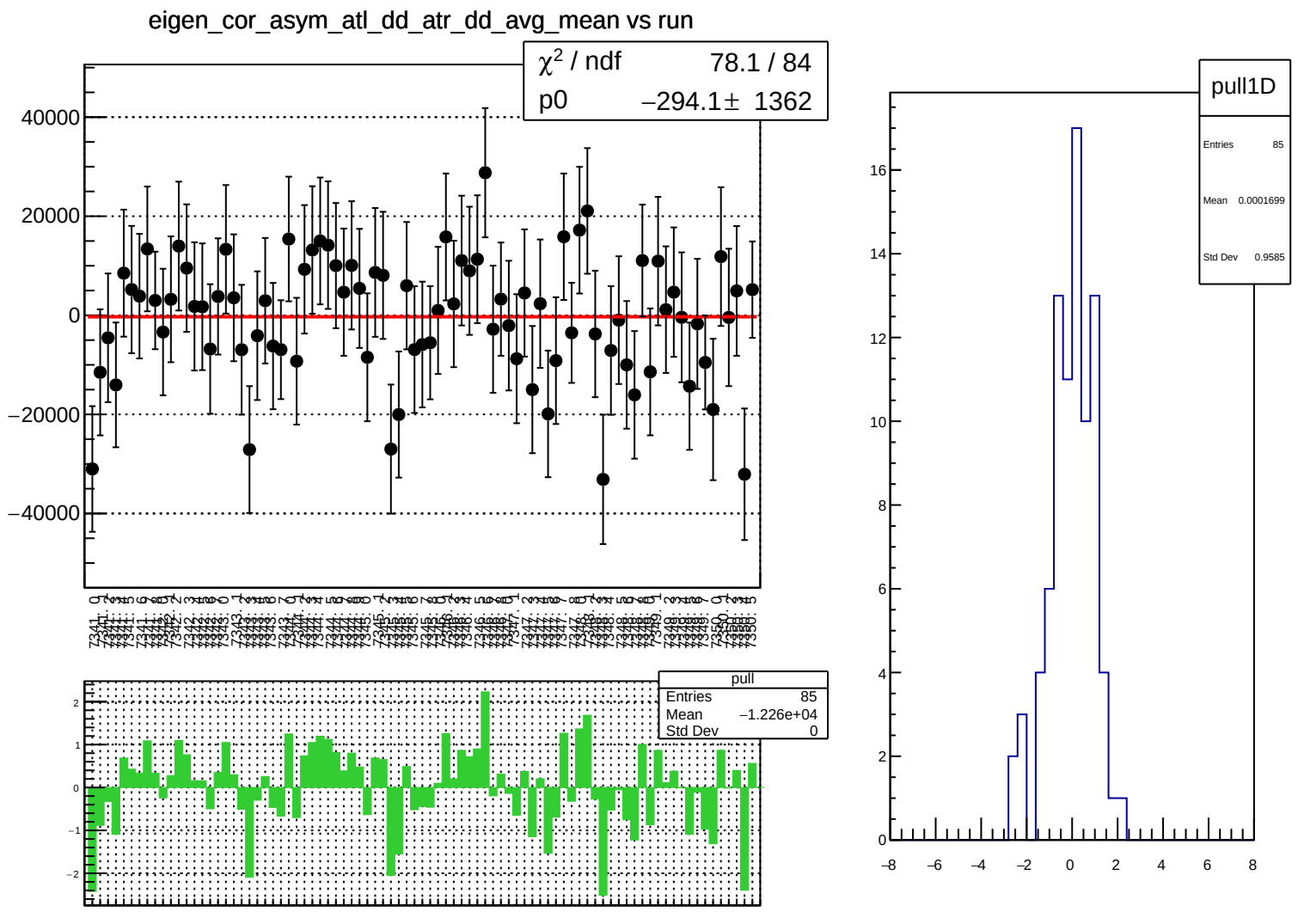

pull1D
Entries 85
Mean 0.0001699
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

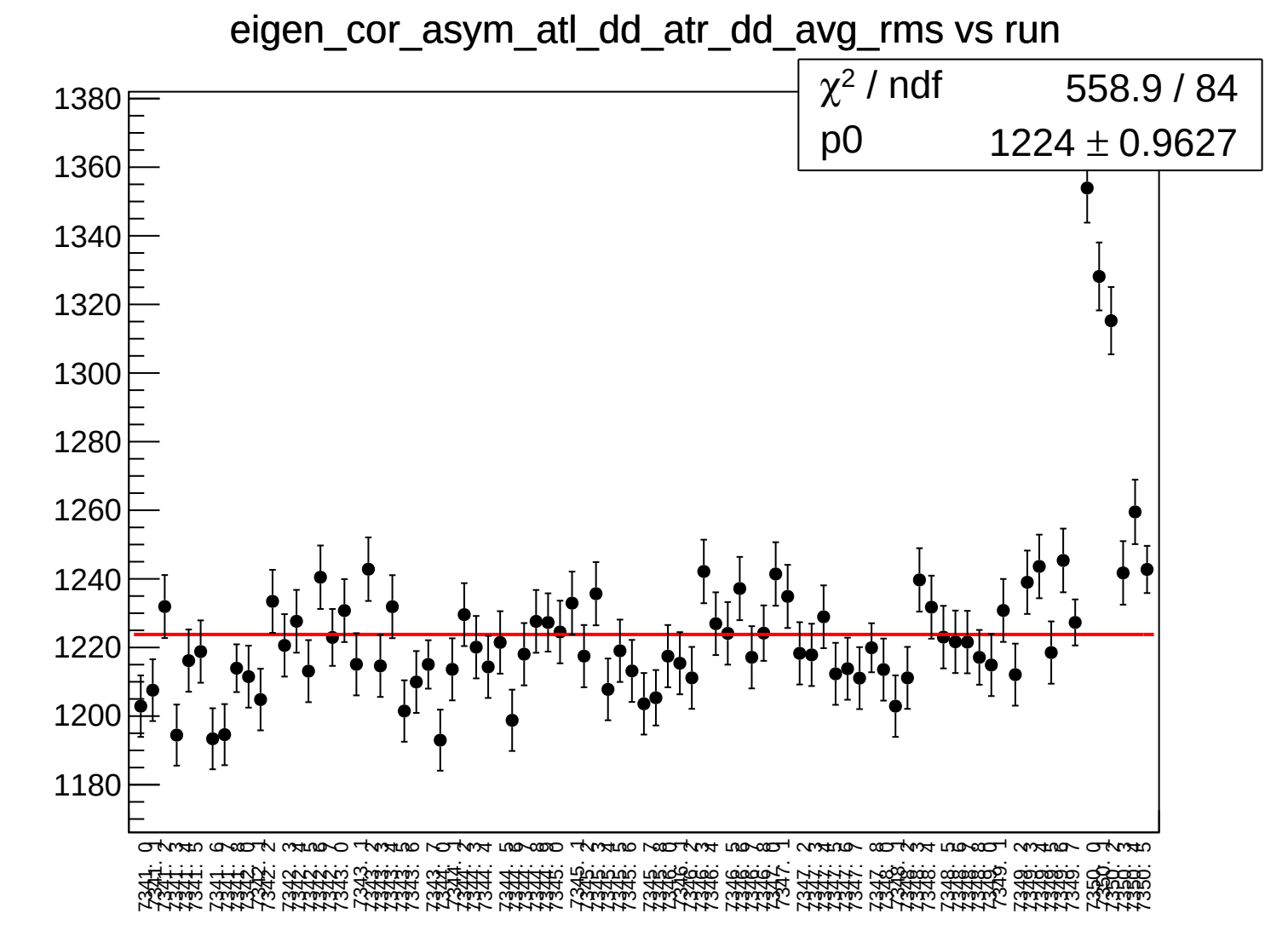

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 558.9 / 84
p0 1224 ± 0.9627
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

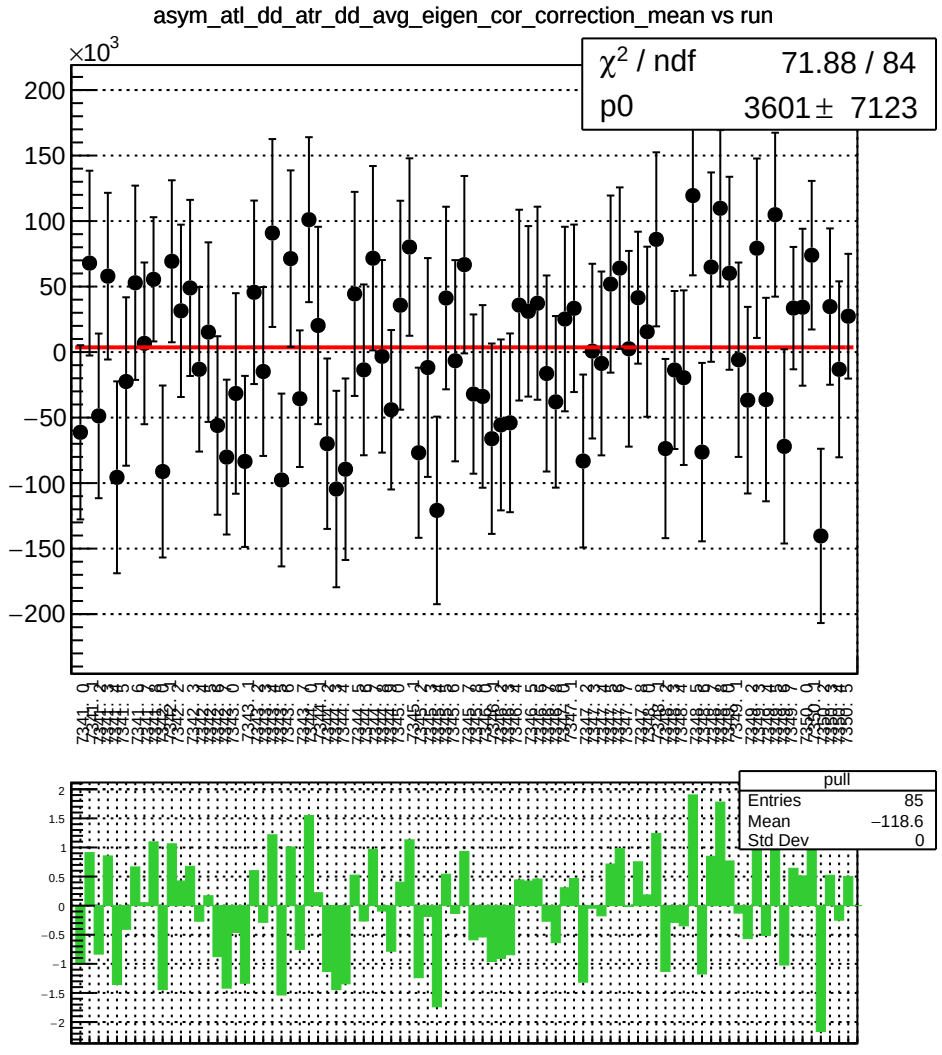

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 71.88 / 84
p0 3601 ± 7123
pull
Entries 85
Mean −118.6
Std Dev 0

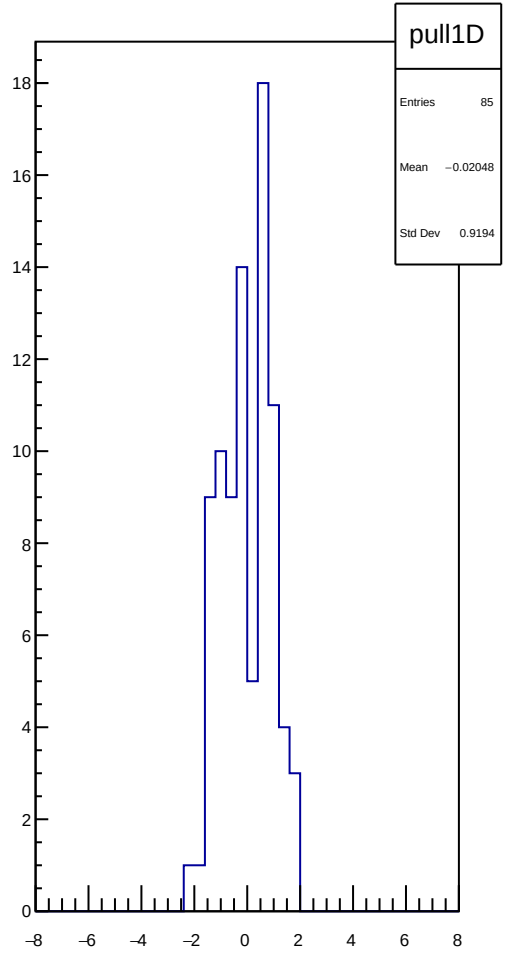

pull1D
Entries 85
Mean −0.02048
Std Dev 0.9194

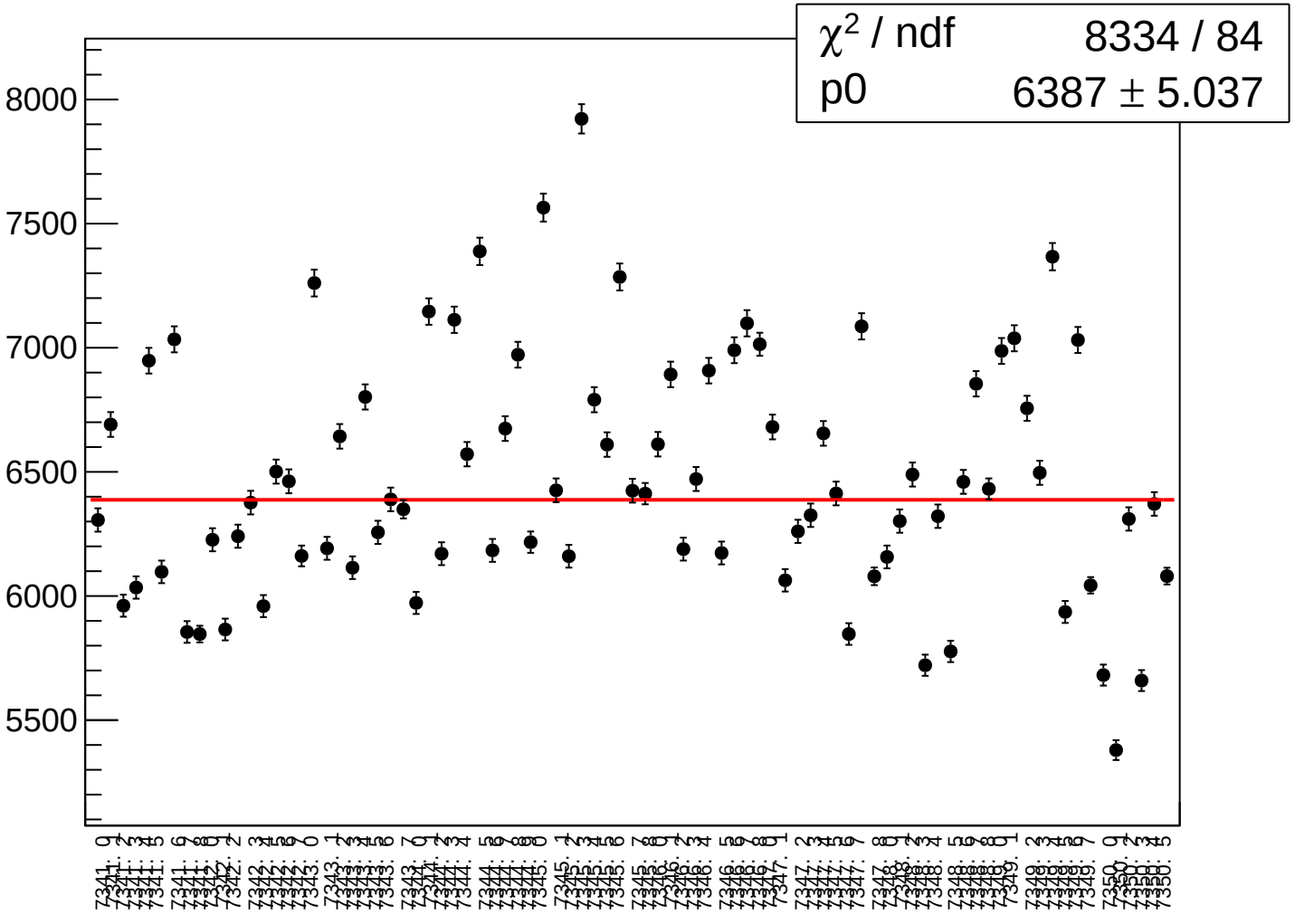

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 8334 / 84
p0 6387 ± 5.037
8000
7500
7000
6500
6000
5500

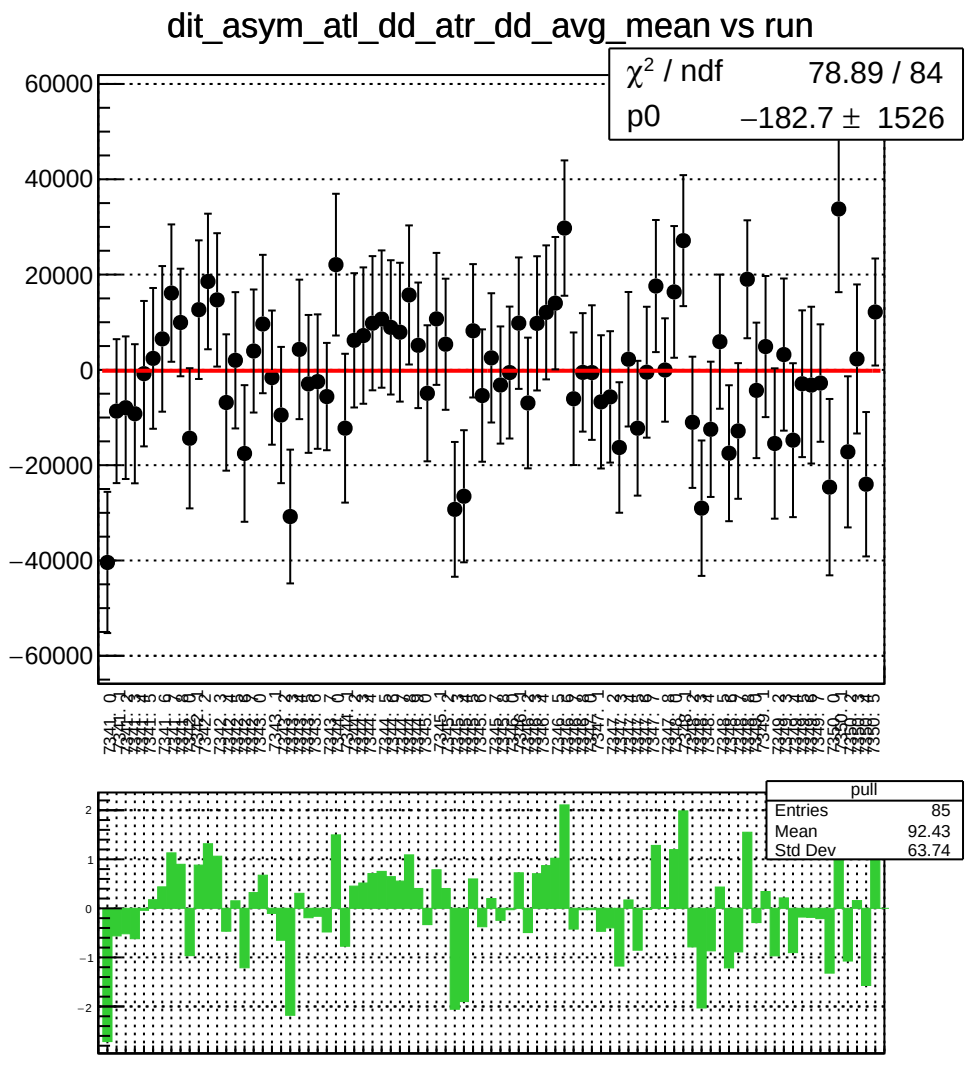

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.1 / 84
p0 −294.1± 1362
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.226e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.0001699
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

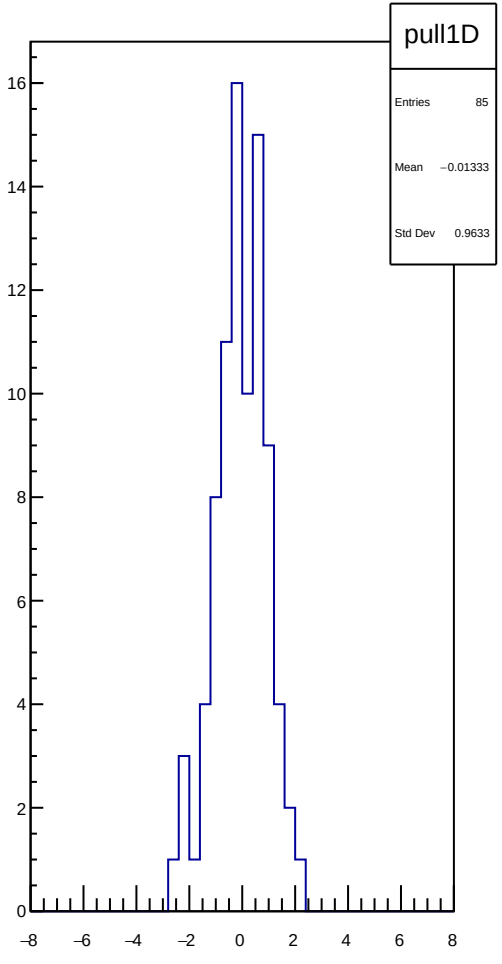

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 558.9 / 84
p0 1224 ± 0.9627
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

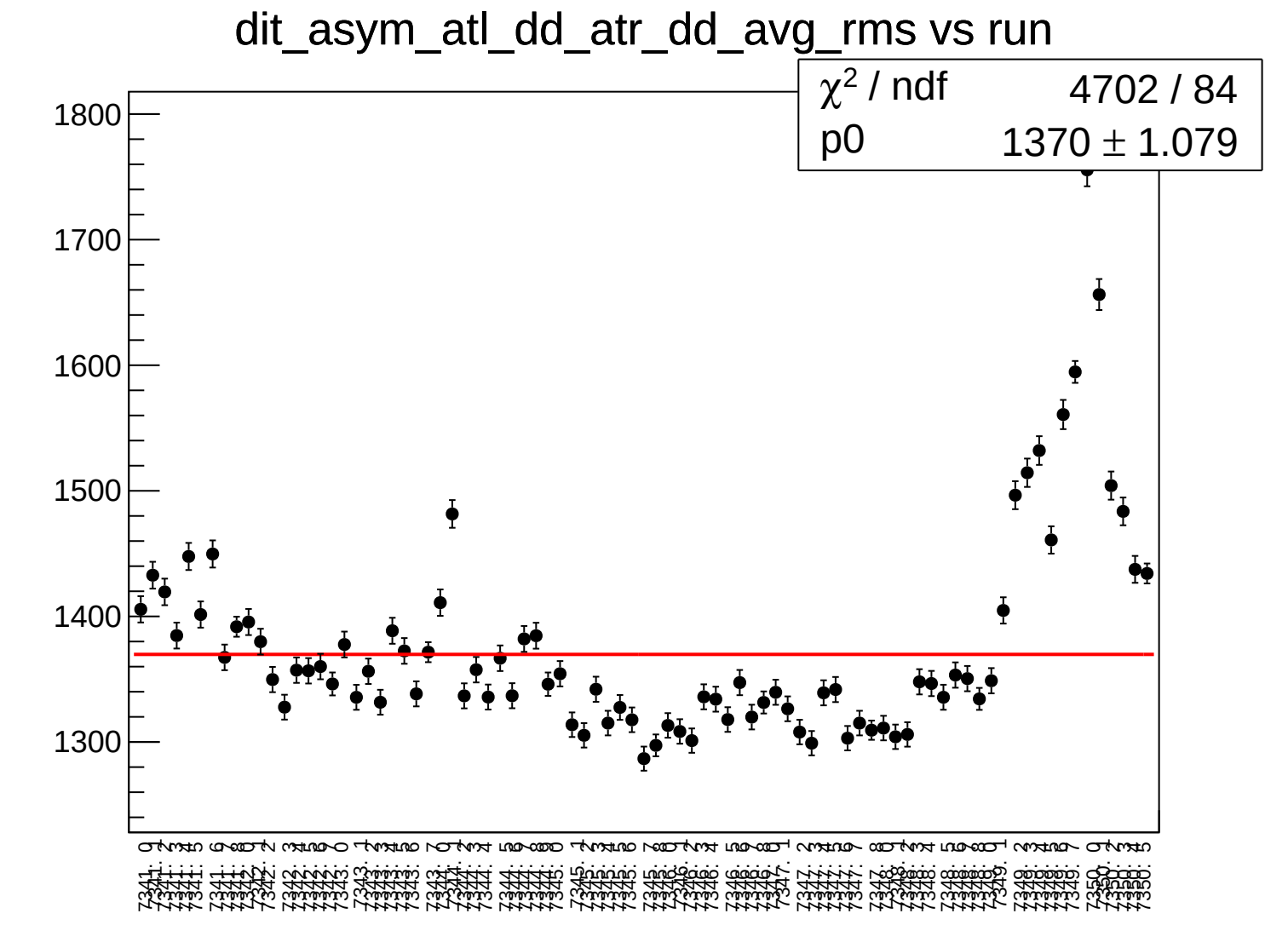

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 71.88 / 84
p0 3601 ± 7123
pull
Entries 85
Mean −118.6
Std Dev 0

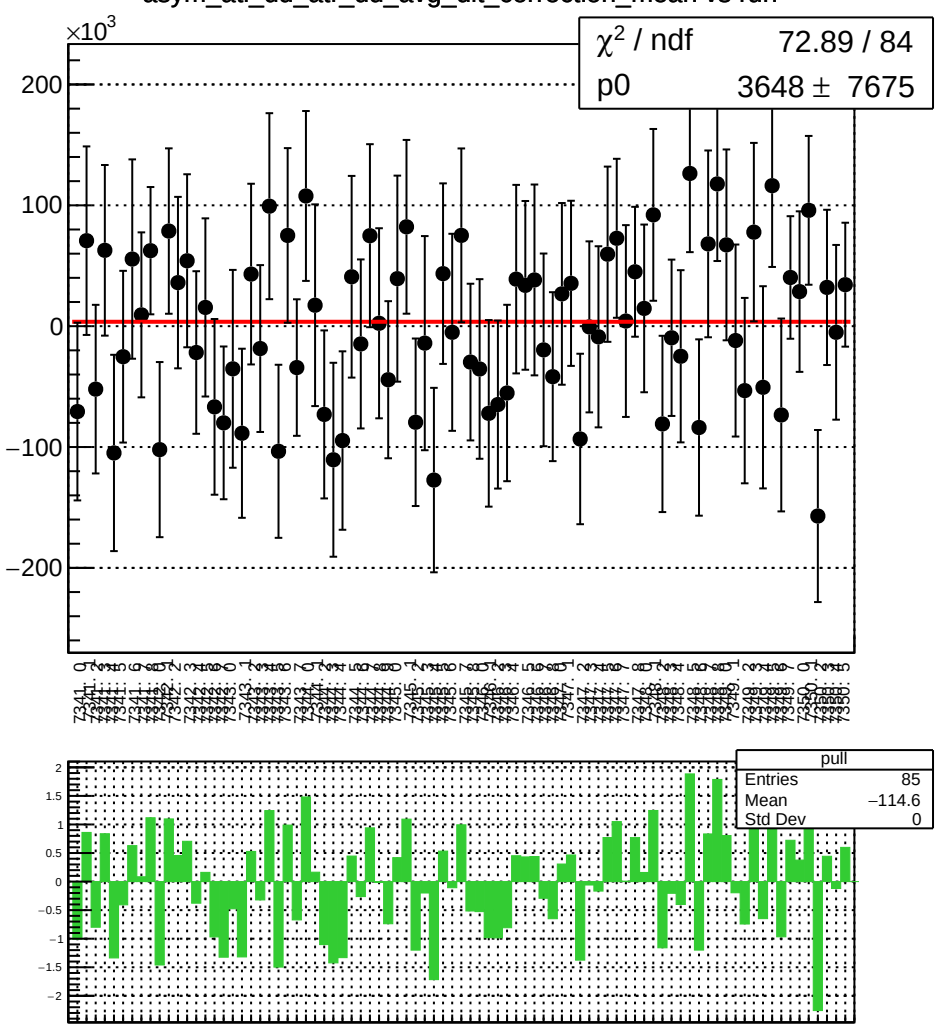

pull1D
Entries 85
Mean −0.02048
Std Dev 0.9194

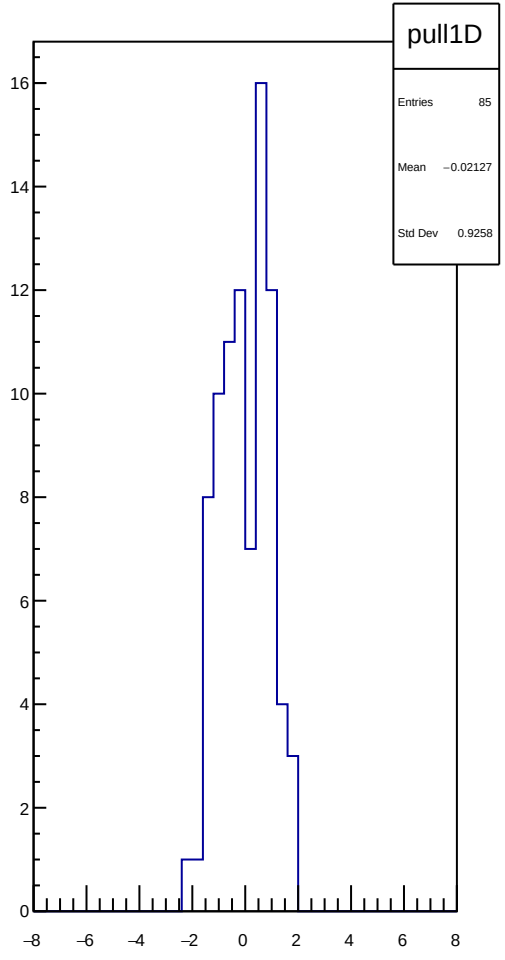

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8334 / 84
p0 6387 ± 5.037
8000
7500
7000
6500
6000
5500

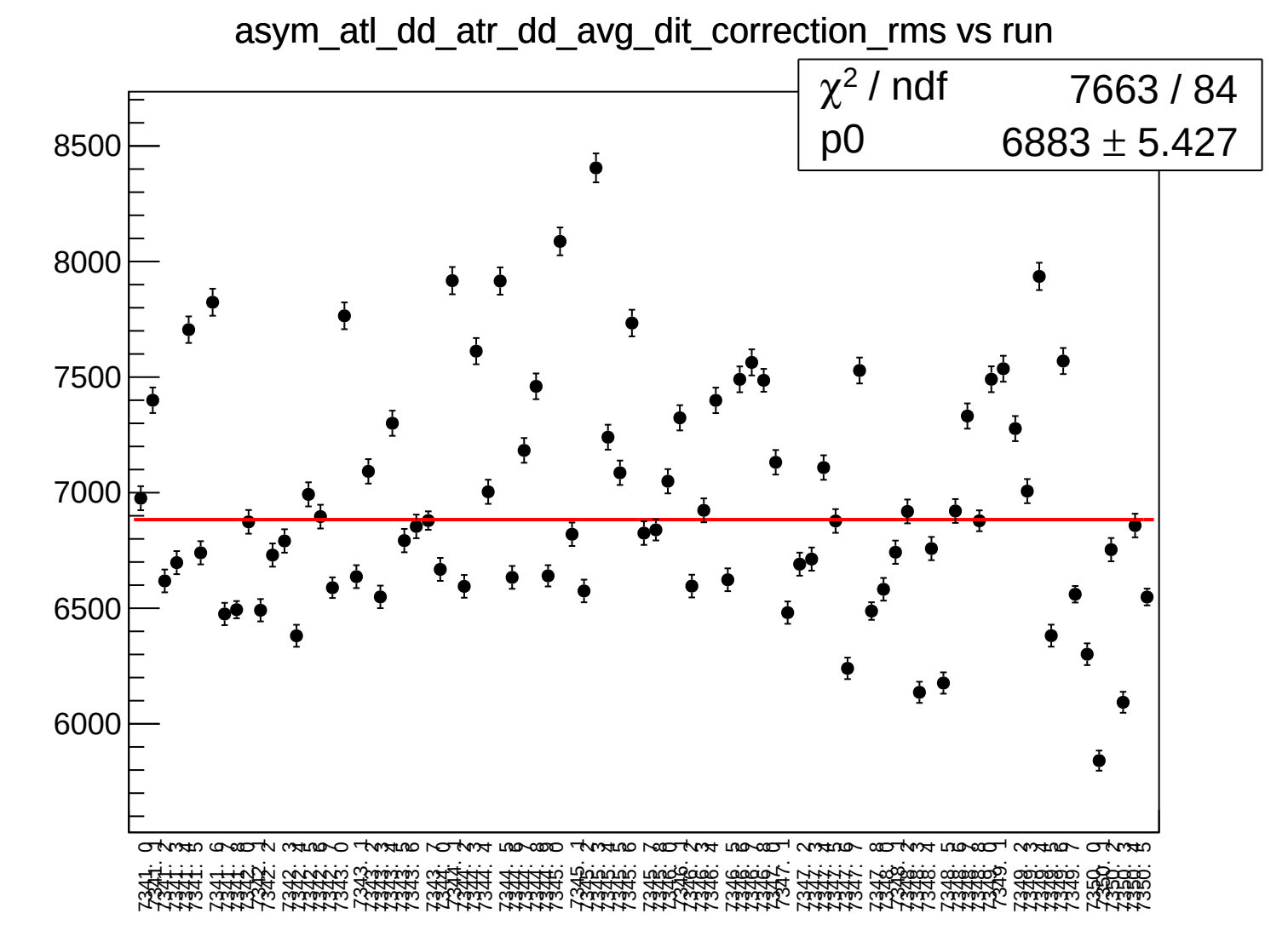

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.89 / 84
p0 −182.7 ± 1526
pull
Entries 85
Mean 92.43
Std Dev 63.74

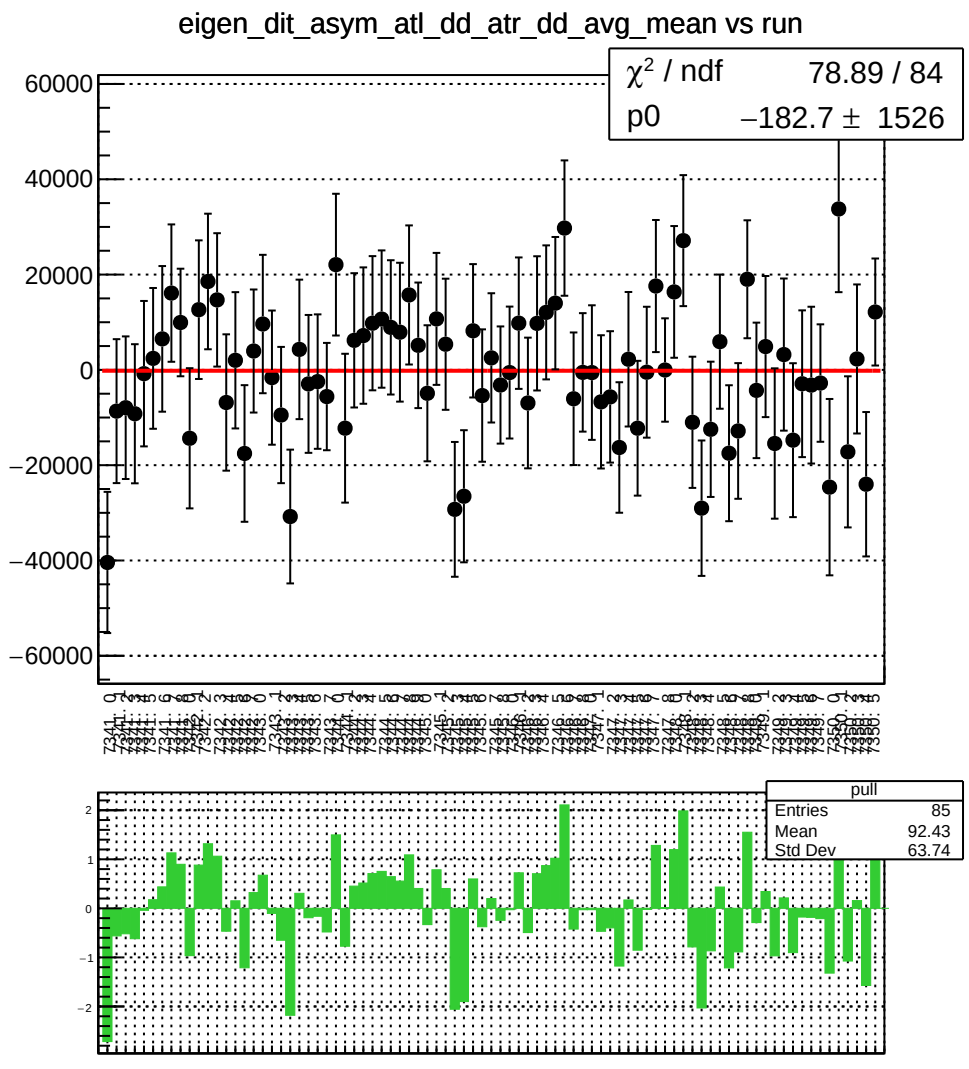

pull1D
Entries 85
Mean −0.01333
Std Dev 0.9633

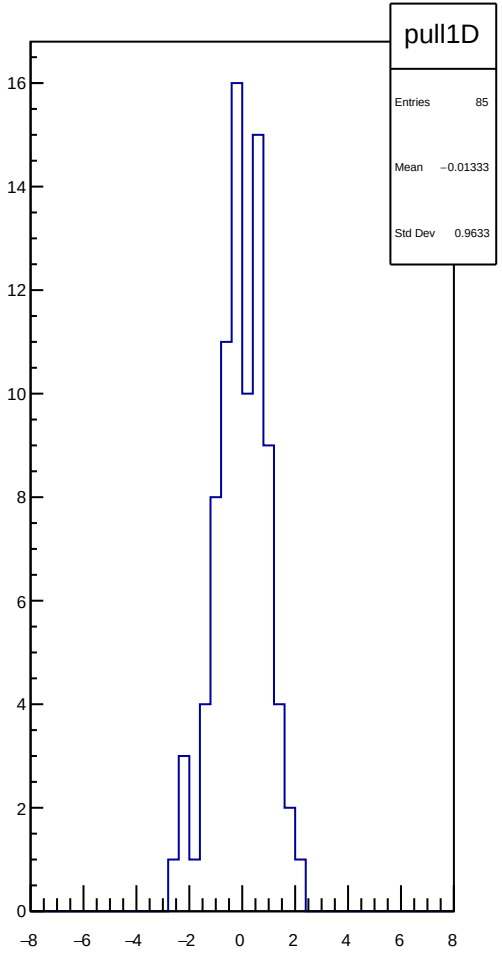

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4702 / 84
p0 1370 ± 1.079
1800
1700
1600
1500
1400
1300

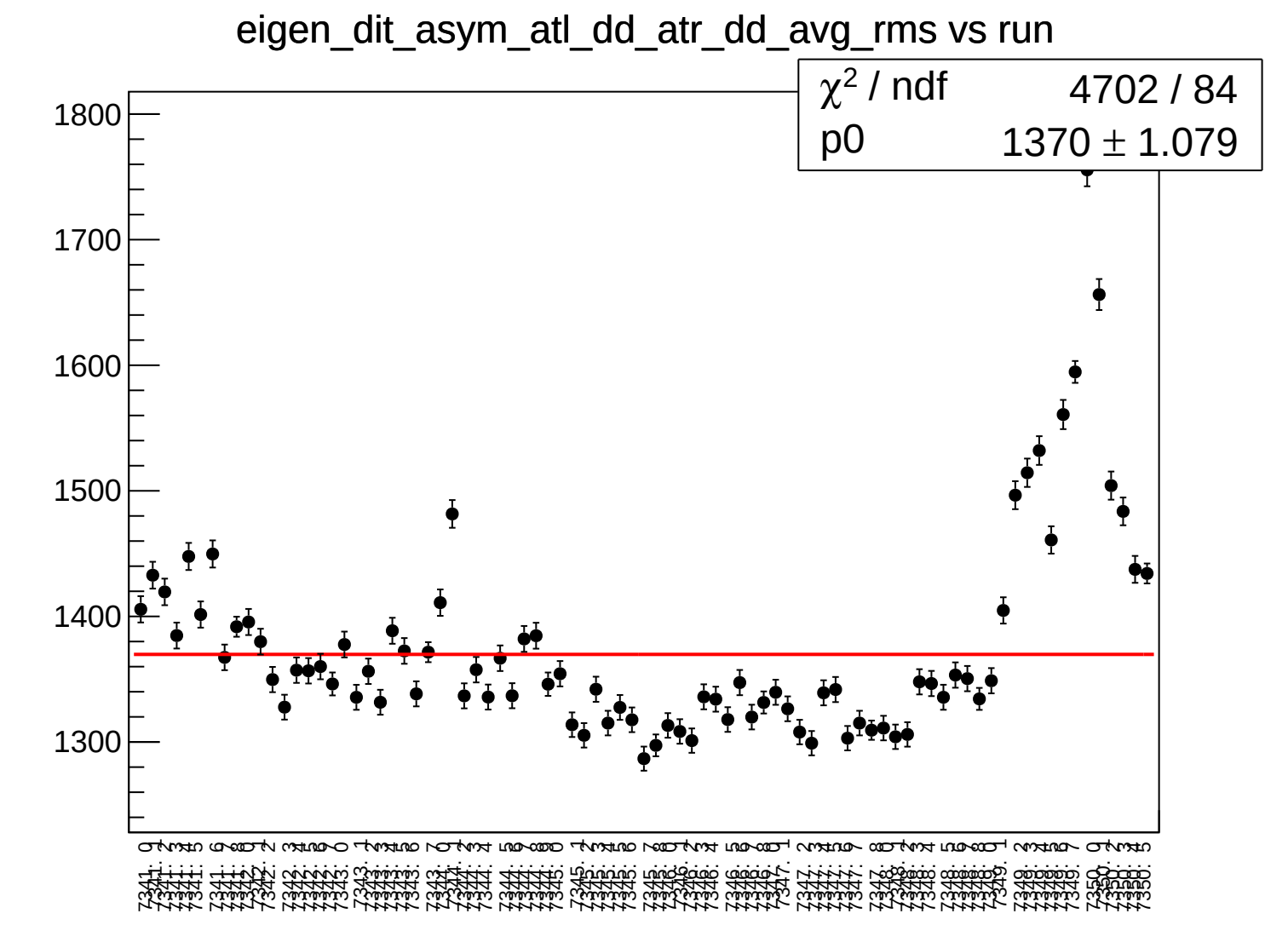

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.89 / 84
p0 3648 ± 7675
200
100
0
−100
−200
pull
Entries 85
Mean −114.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

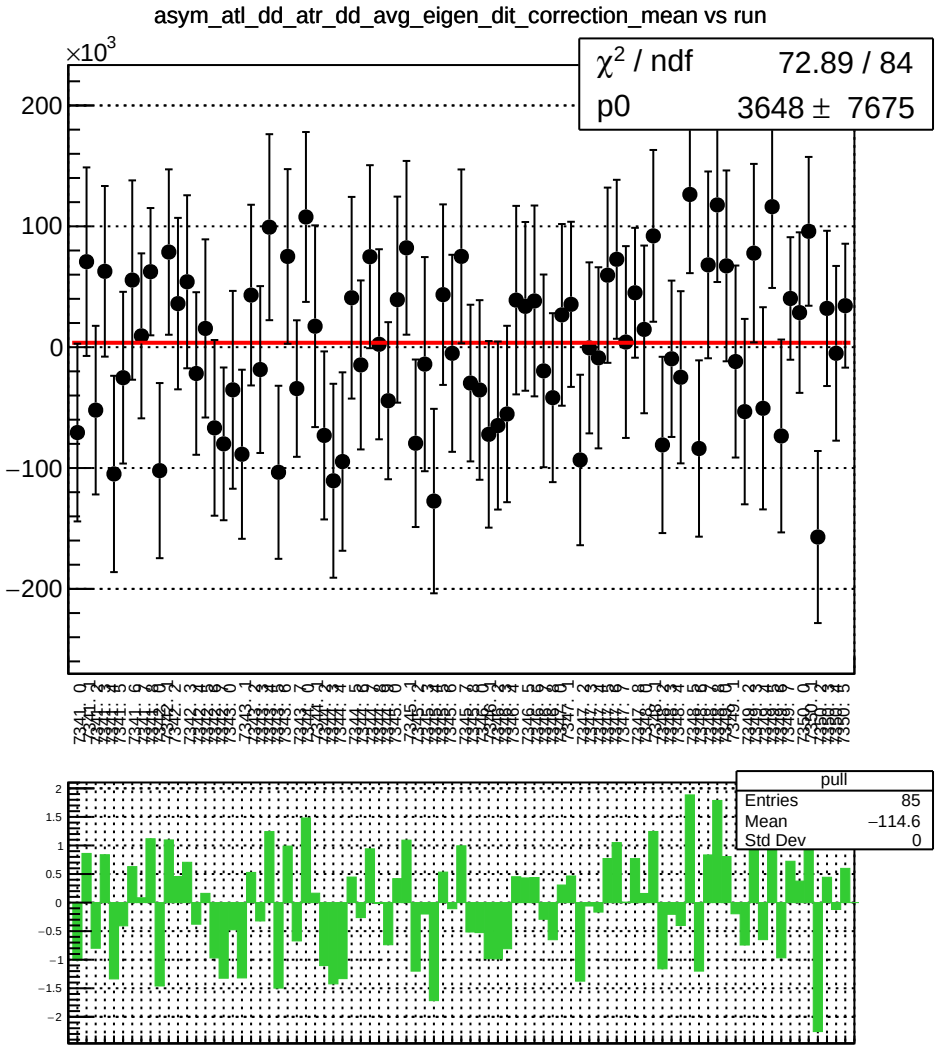

pull1D
Entries 85
Mean −0.02127
Std Dev 0.9258
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

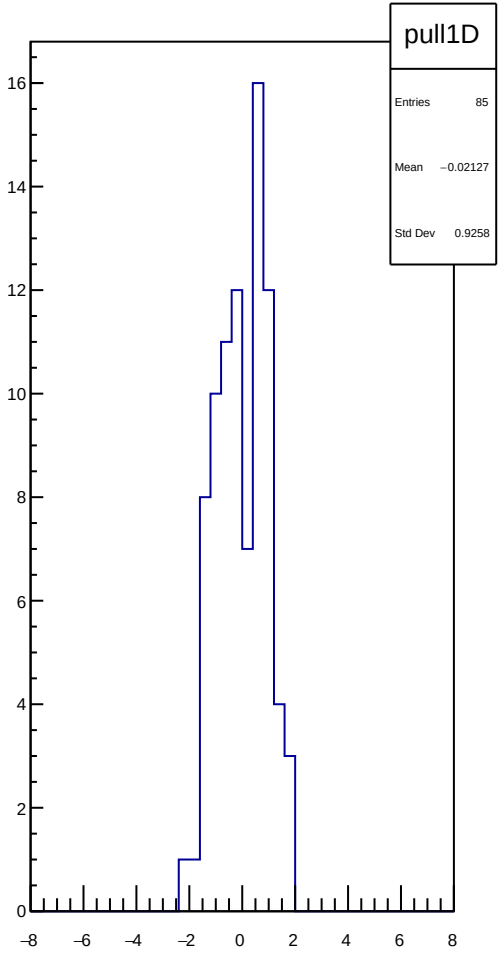

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 7663 / 84
p0 6883 ± 5.427
8500
8000
7500
7000
6500
6000

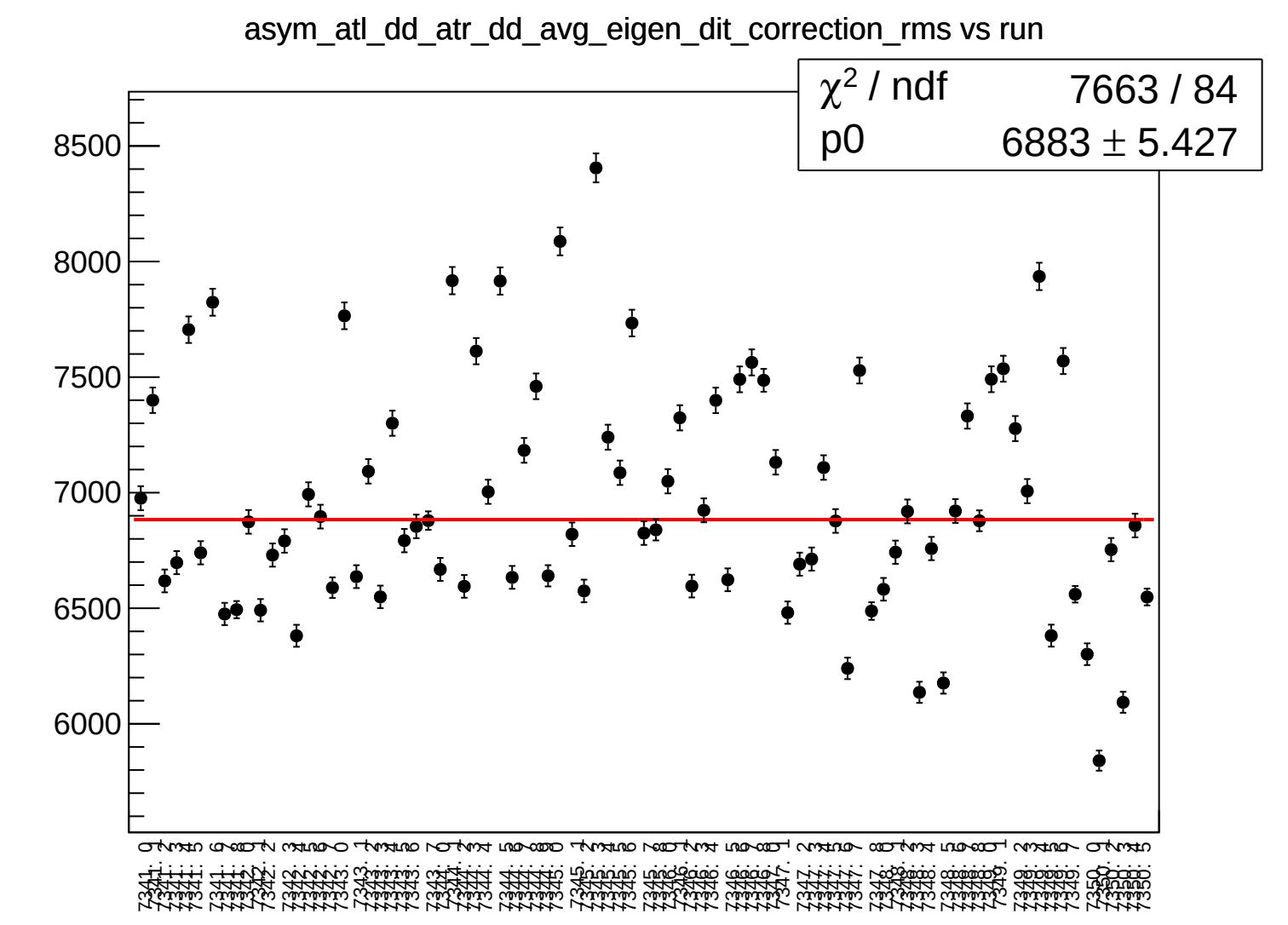

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.89 / 84
p0 −182.7 ± 1526
pull
Entries 85
Mean 92.43
Std Dev 63.74

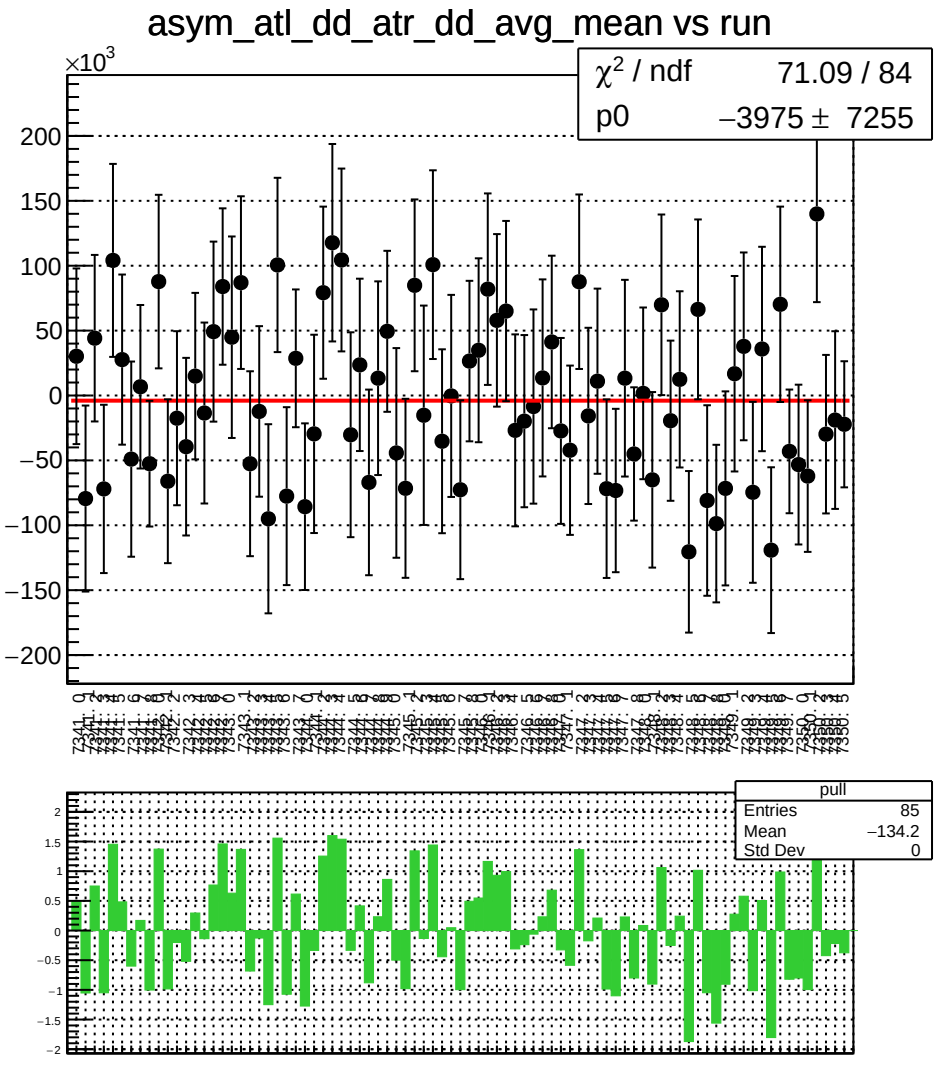

pull1D
Entries 85
Mean −0.01333
Std Dev 0.9633

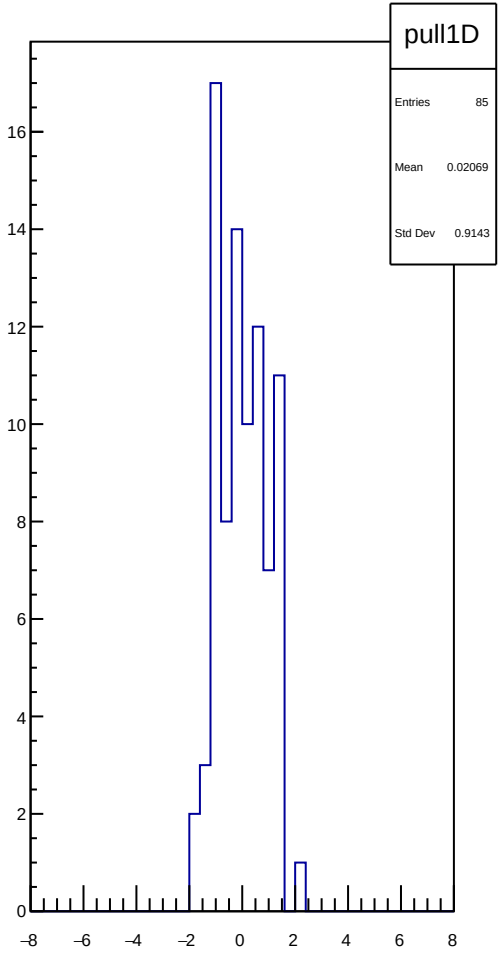

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4702 / 84
p0 1370 ± 1.079
1800
1700
1600
1500
1400
1300

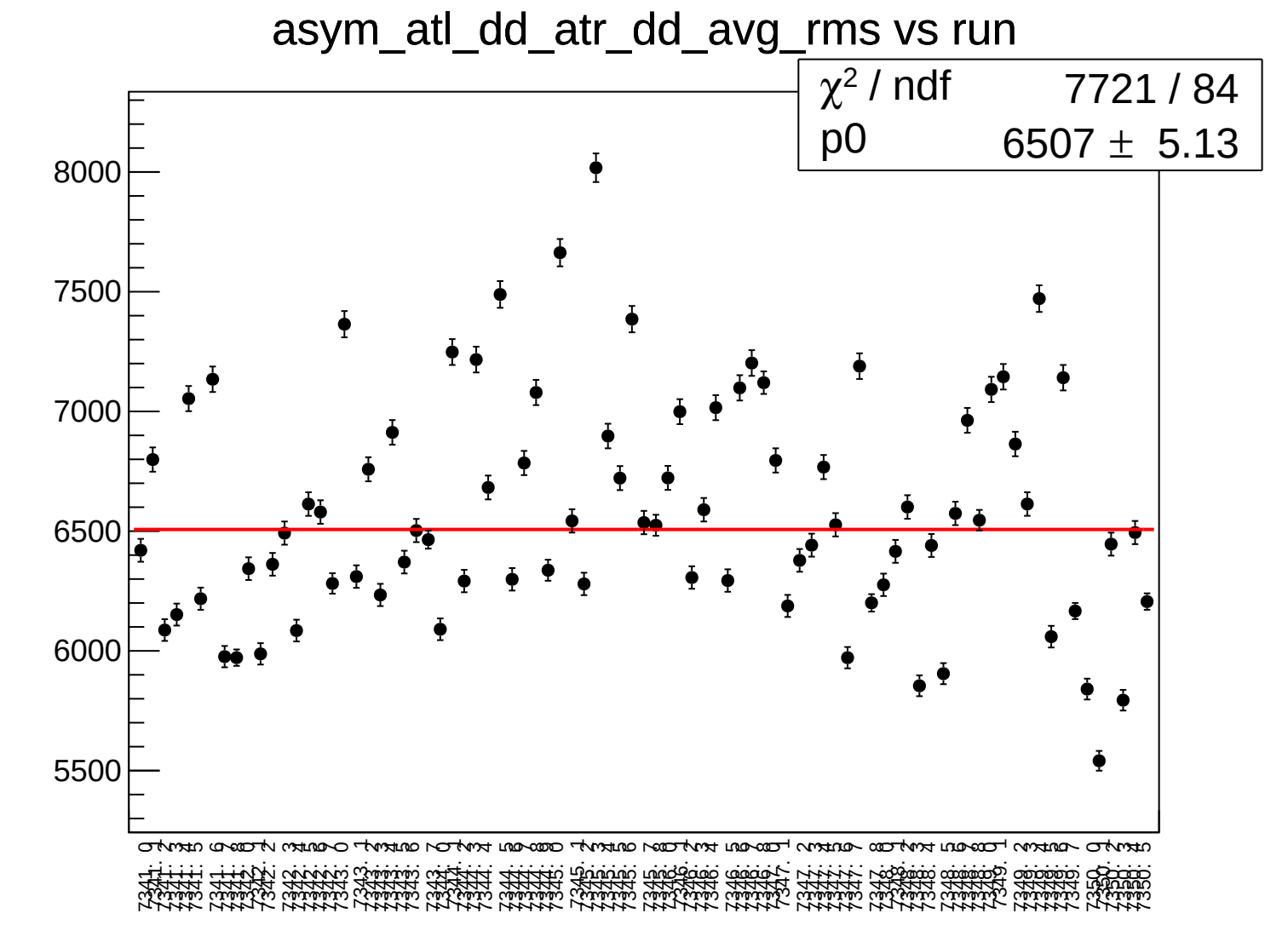

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.89 / 84
p0 3648 ± 7675
200
100
0
−100
−200
pull
Entries 85
Mean −114.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

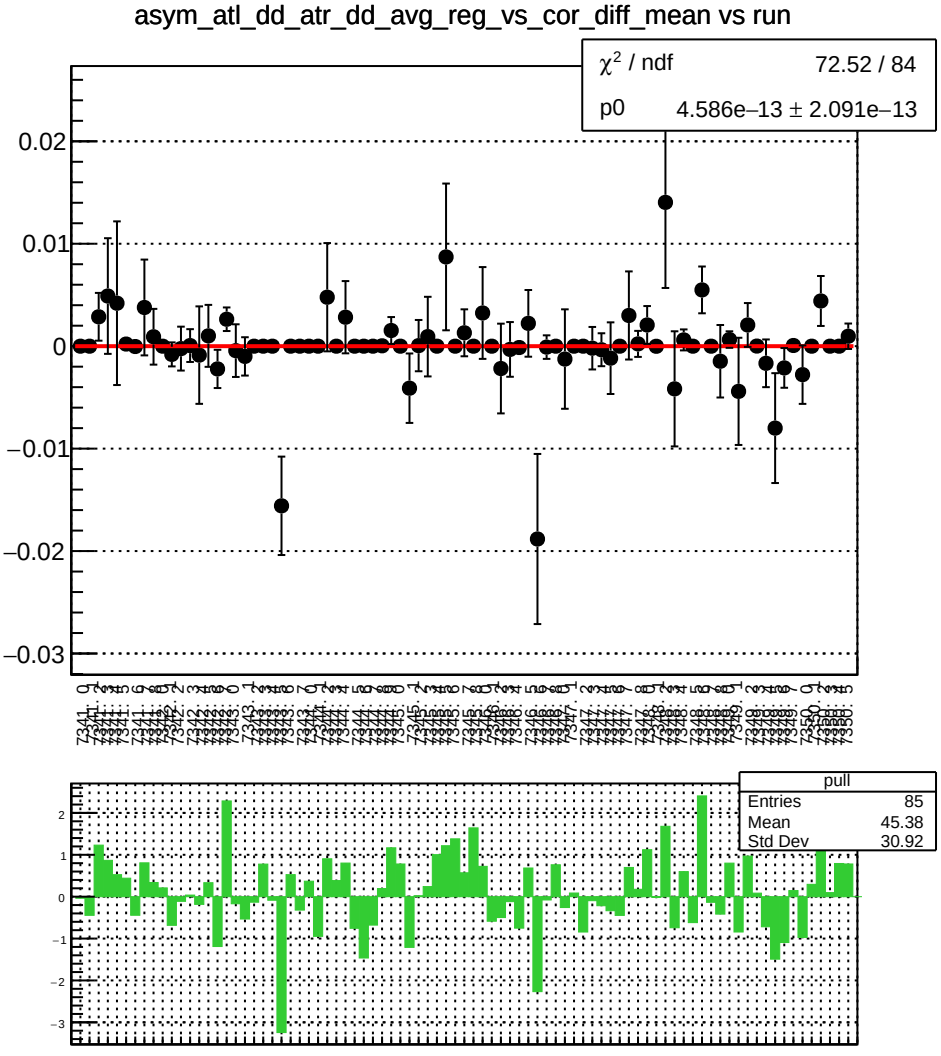

pull1D
Entries 85
Mean −0.02127
Std Dev 0.9258
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

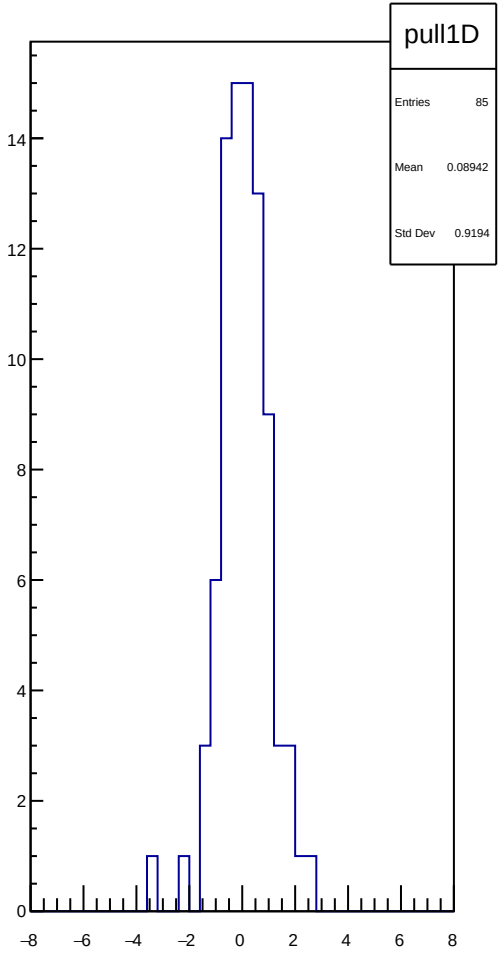

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7663 / 84
p0 6883 ± 5.427
8500
8000
7500
7000
6500
6000

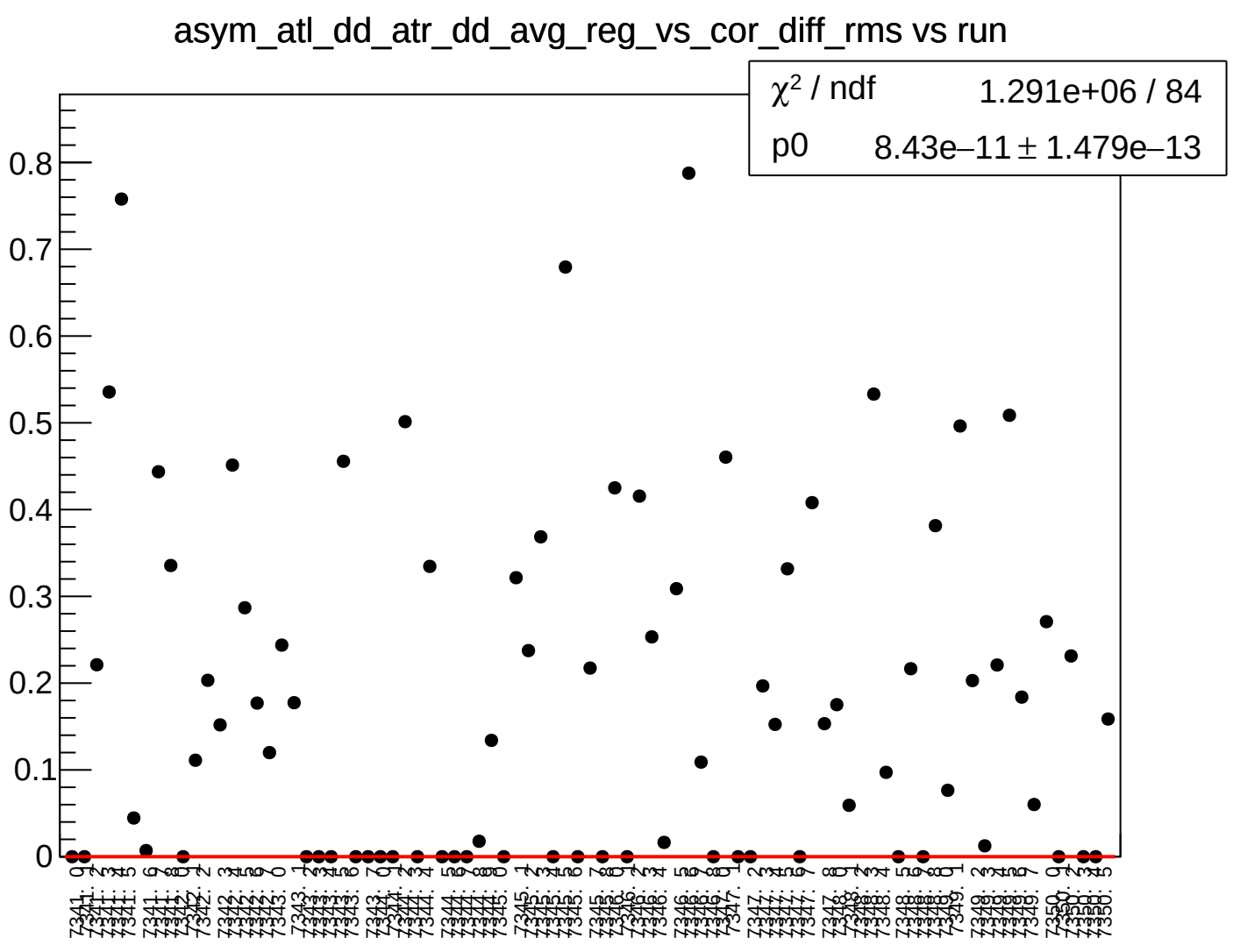

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 71.09 / 84
p0 −3975 ± 7255
pull
Entries 85
Mean −134.2
Std Dev 0

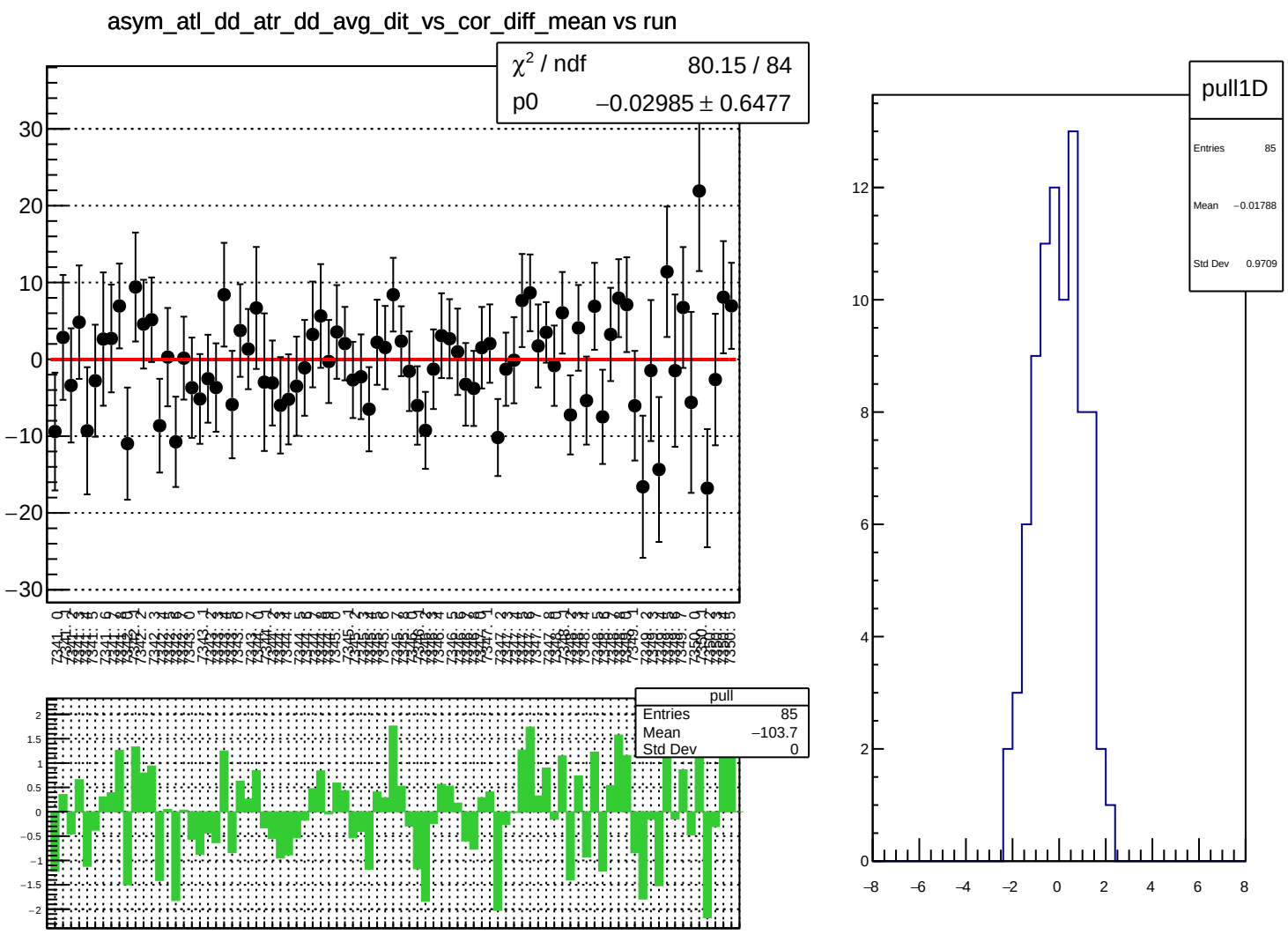

pull1D
Entries 85
Mean 0.02069
Std Dev 0.9143

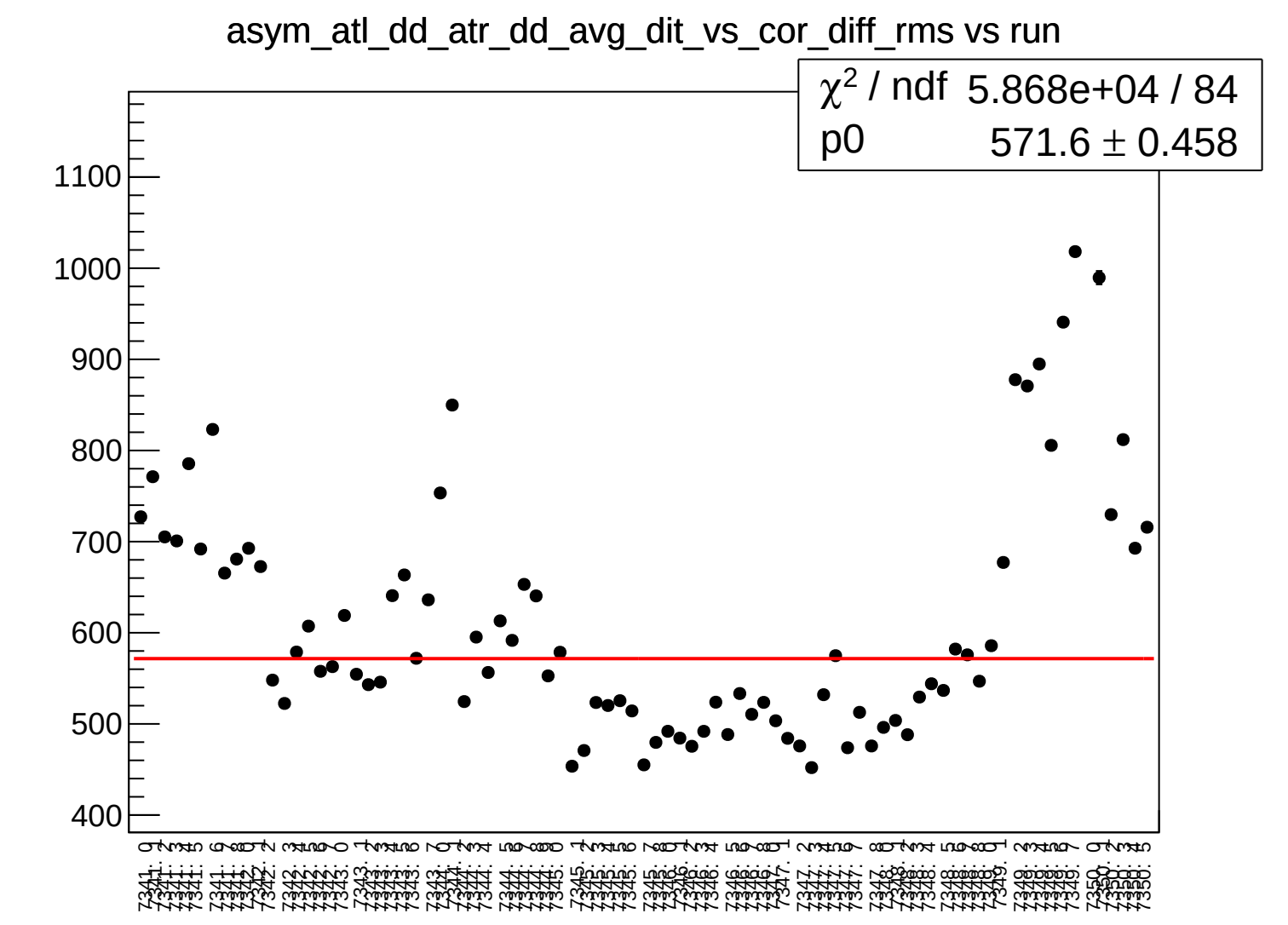

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 7721 / 84
p0 6507 ± 5.13
8000
7500
7000
6500
6000
5500

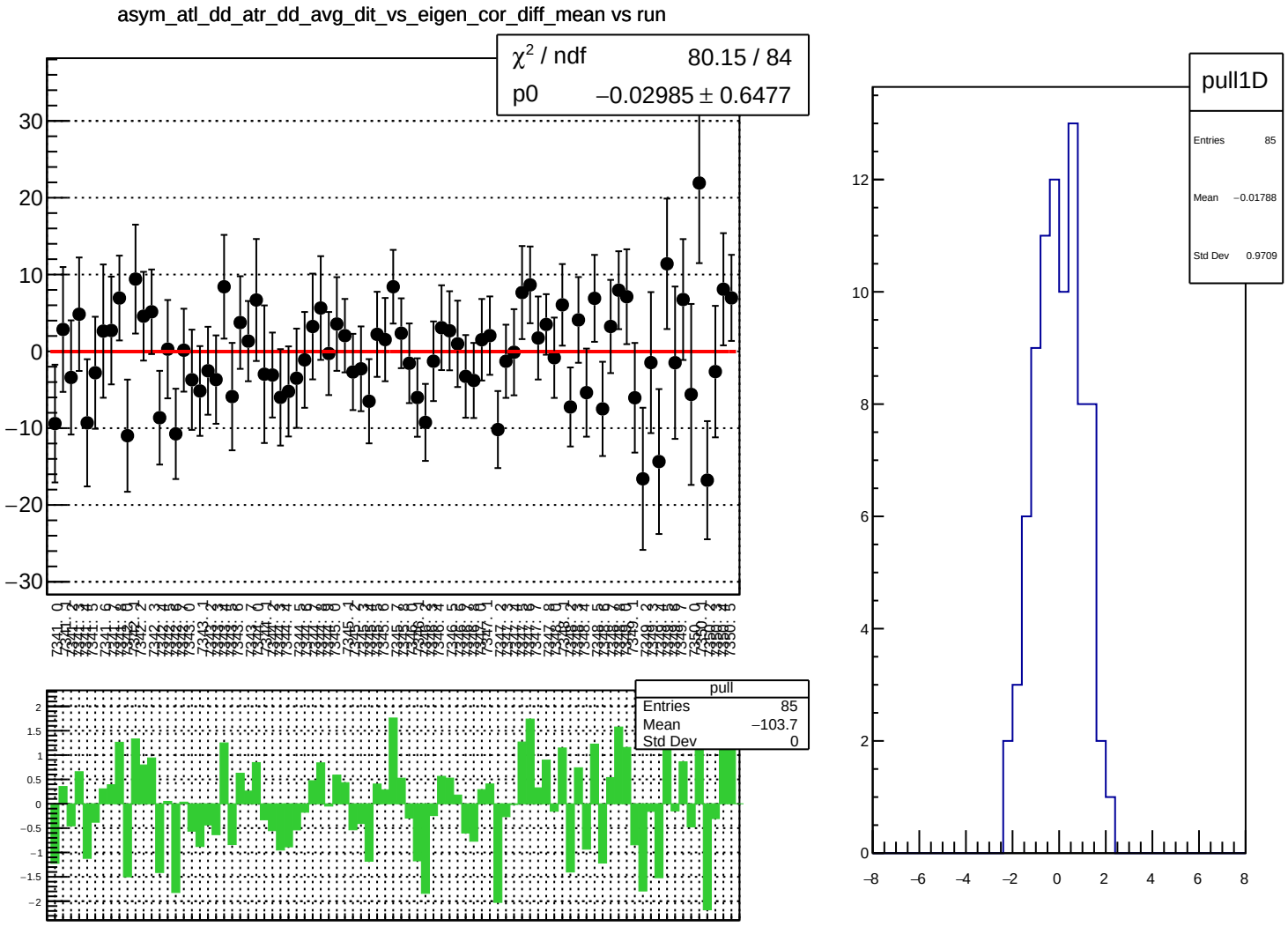

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.52 / 84
p0 4.586e−13 ± 2.091e−13
pull
Entries 85
Mean 45.38
Std Dev 30.92

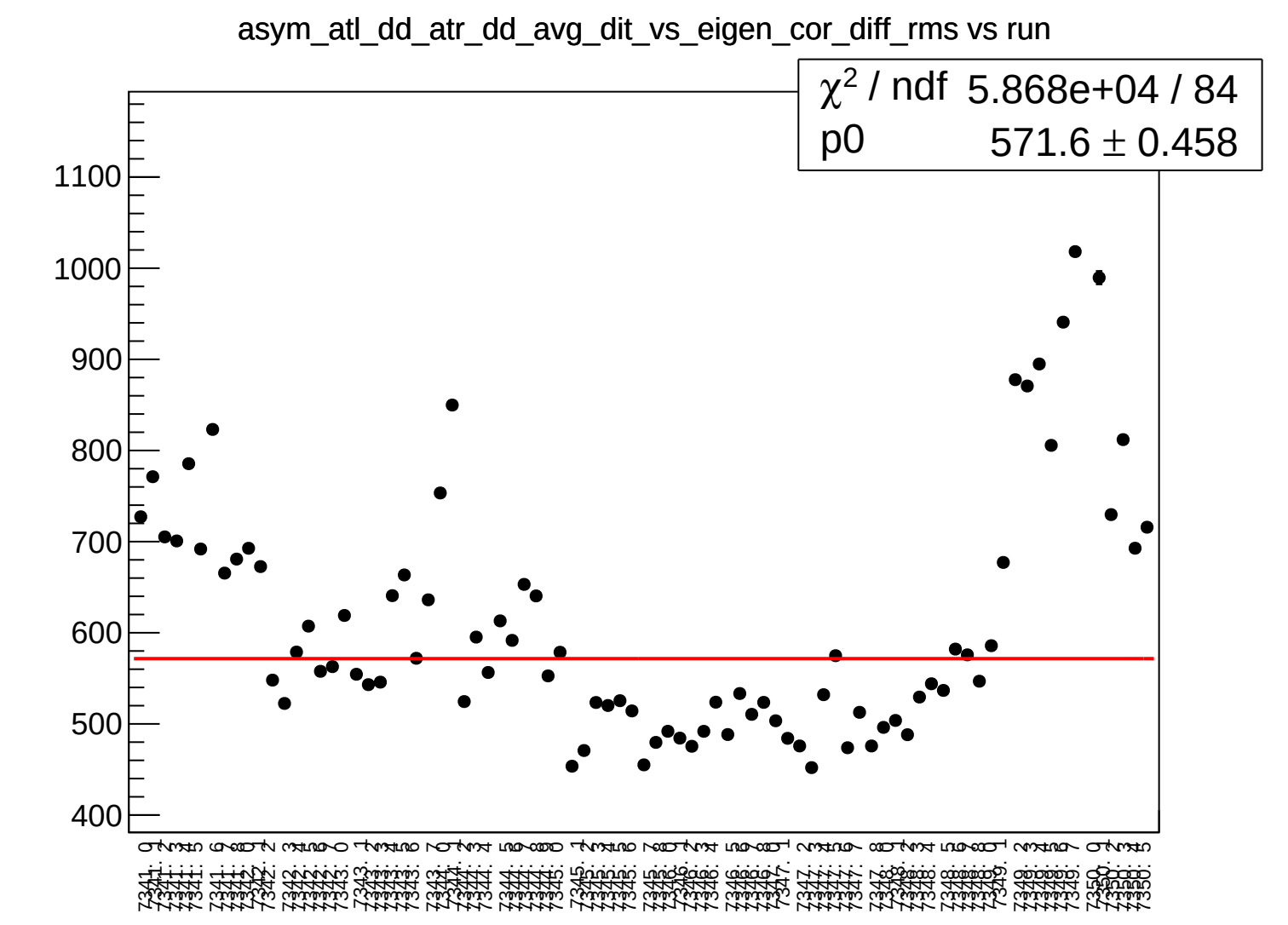

pull1D
Entries 85
Mean 0.08942
Std Dev 0.9194

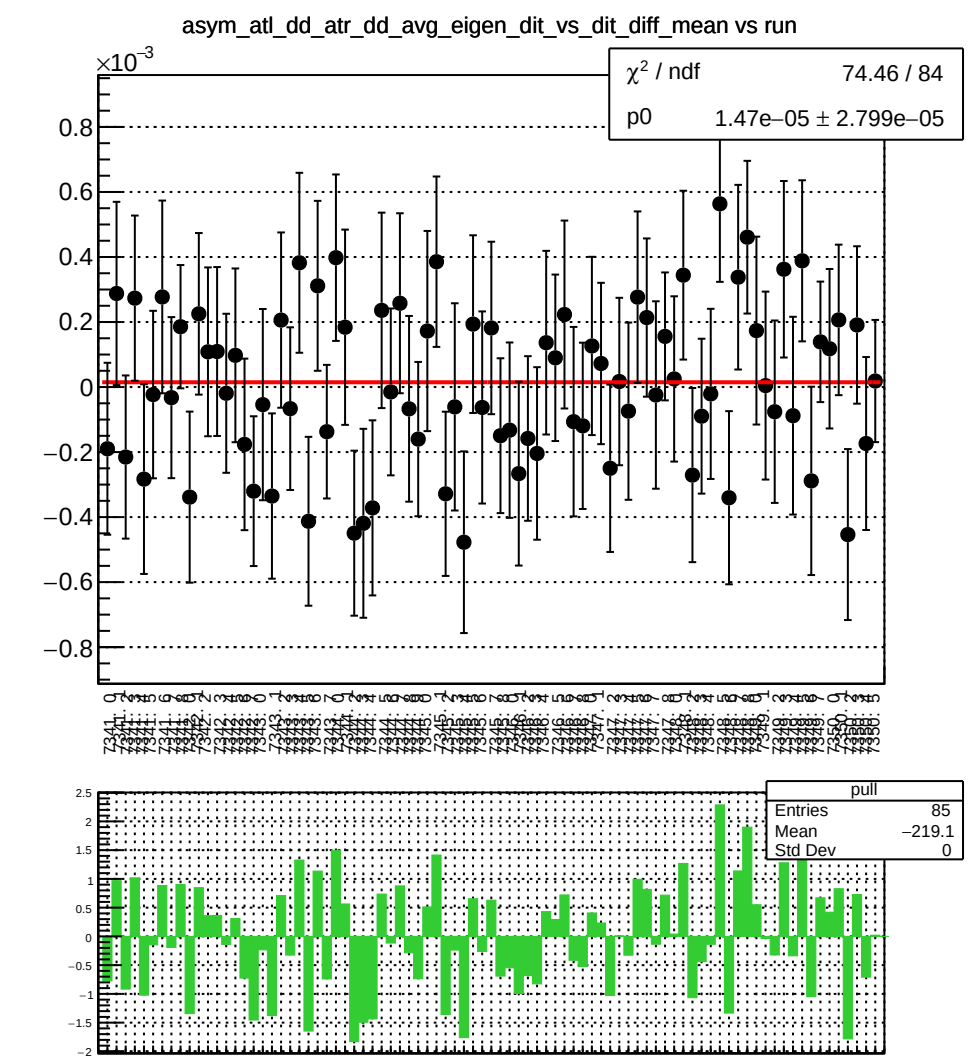

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.291e+06 / 84
p0 8.43e−11 ± 1.479e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

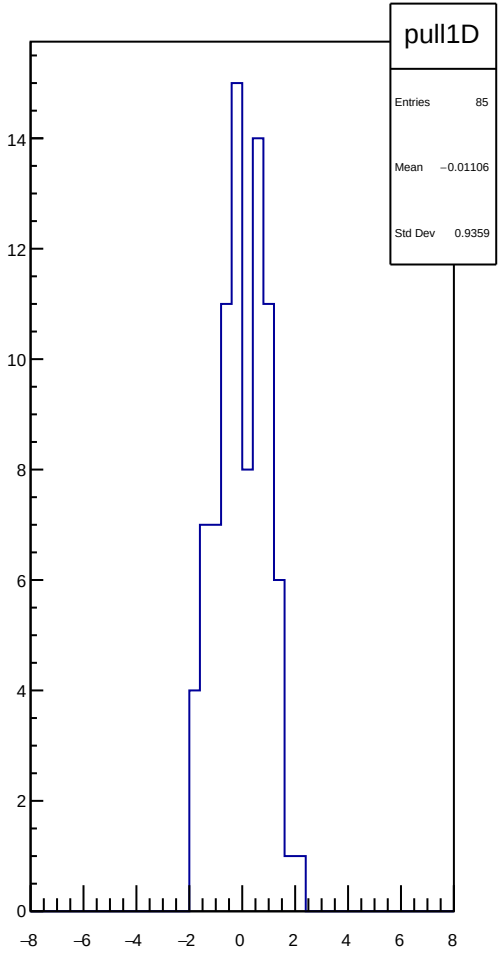

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.15 / 84
p0 −0.02985 ± 0.6477
pull
Entries 85
Mean −103.7
Std Dev 0
pull1D
Entries 85
Mean −0.01788
Std Dev 0.9709

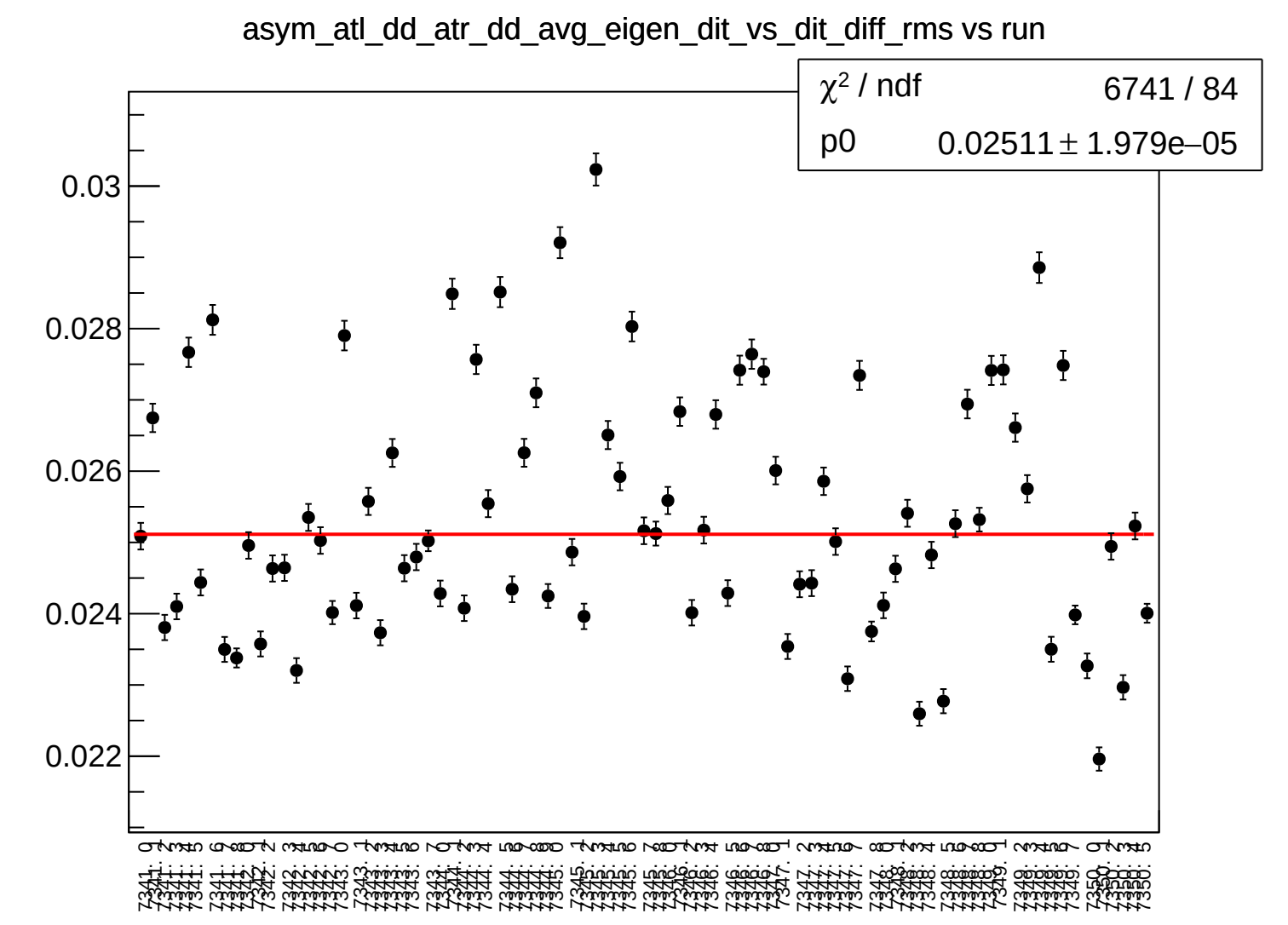

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

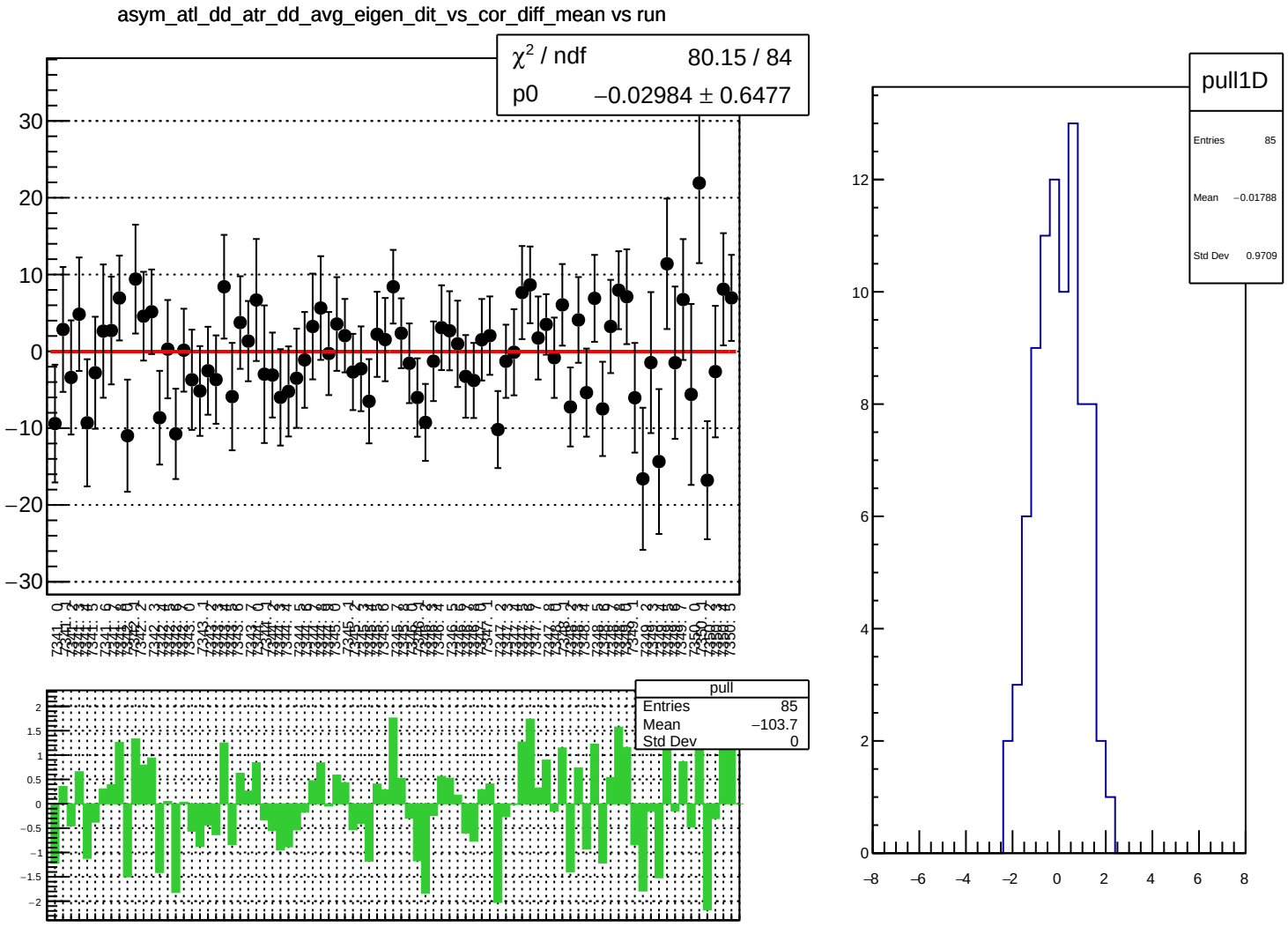

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.15 / 84
p0 −0.02985 ± 0.6477
pull
Entries 85
Mean −103.7
Std Dev 0
pull1D
Entries 85
Mean −0.01788
Std Dev 0.9709

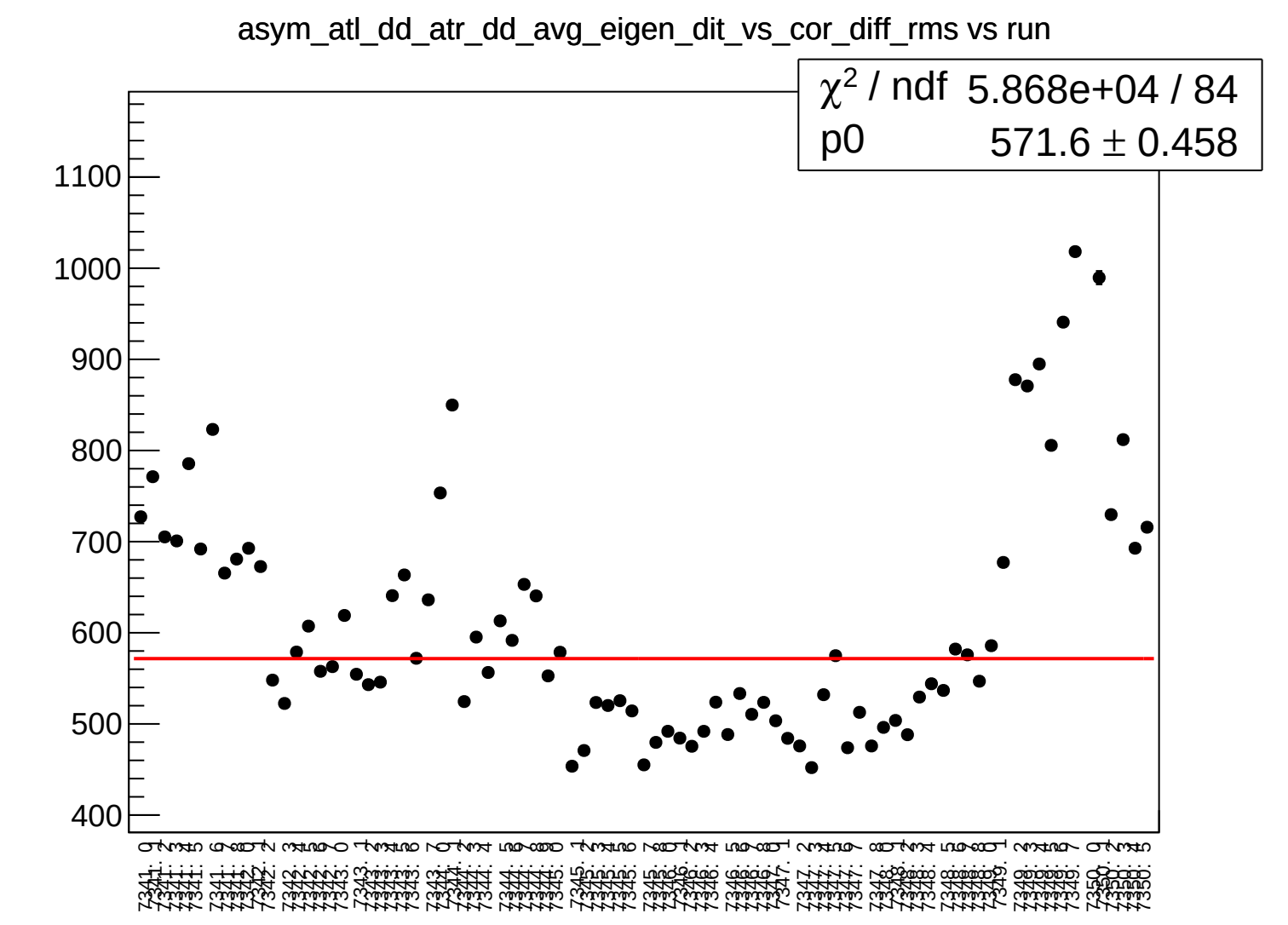

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

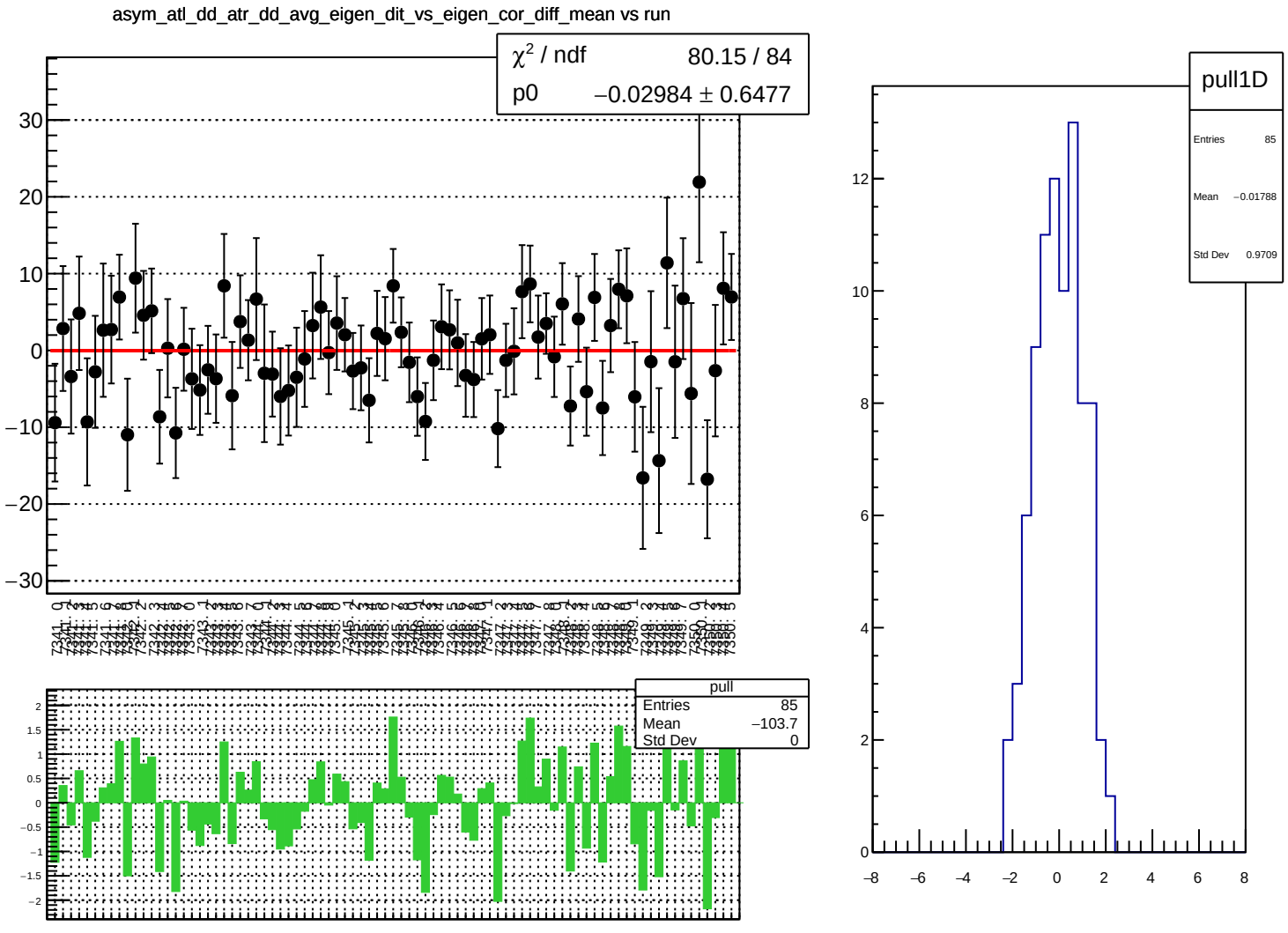

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.46 / 84
p0 1.47e−05 ± 2.799e−05
pull
Entries 85
Mean −219.1
Std Dev 0

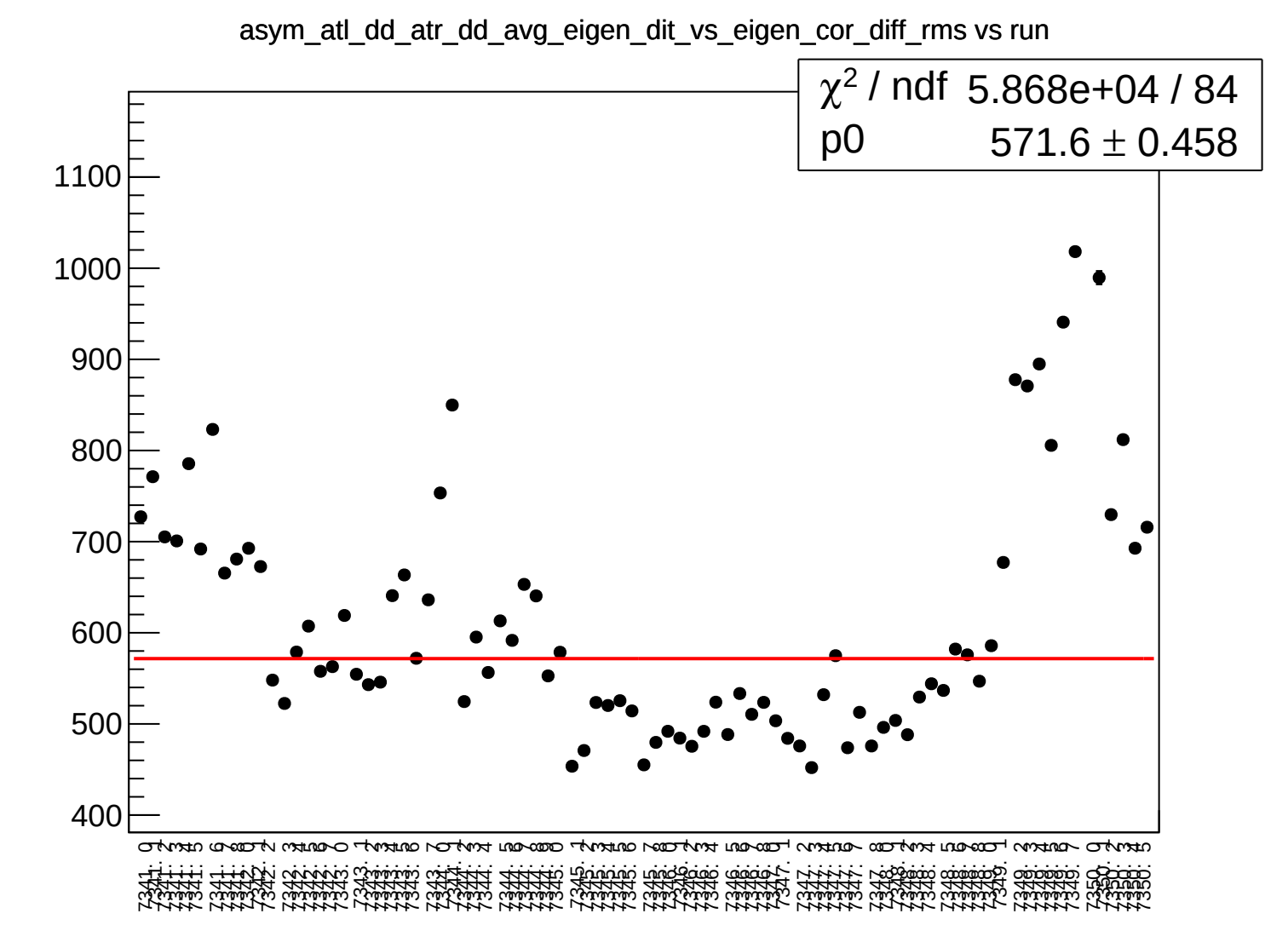

pull1D
Entries 85
Mean −0.01106
Std Dev 0.9359

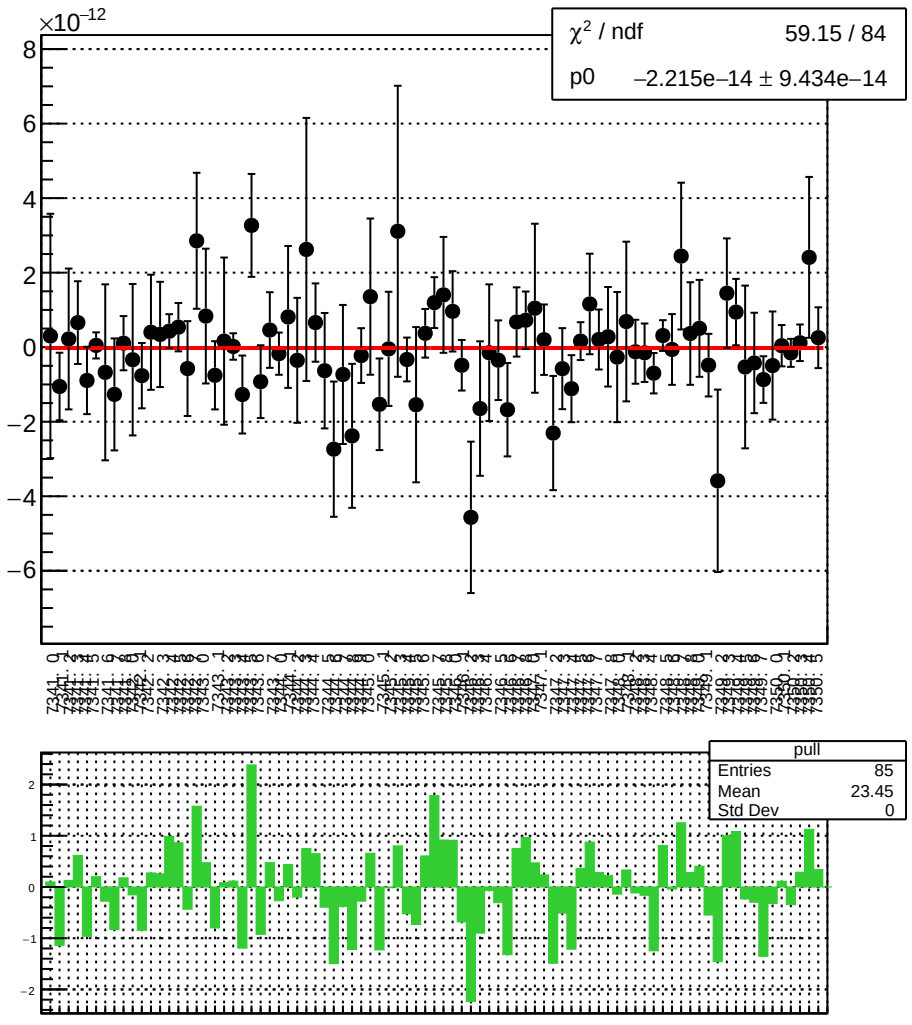

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6741 / 84
p0 0.02511 ± 1.979e−05
0.03
0.028
0.026
0.024
0.022

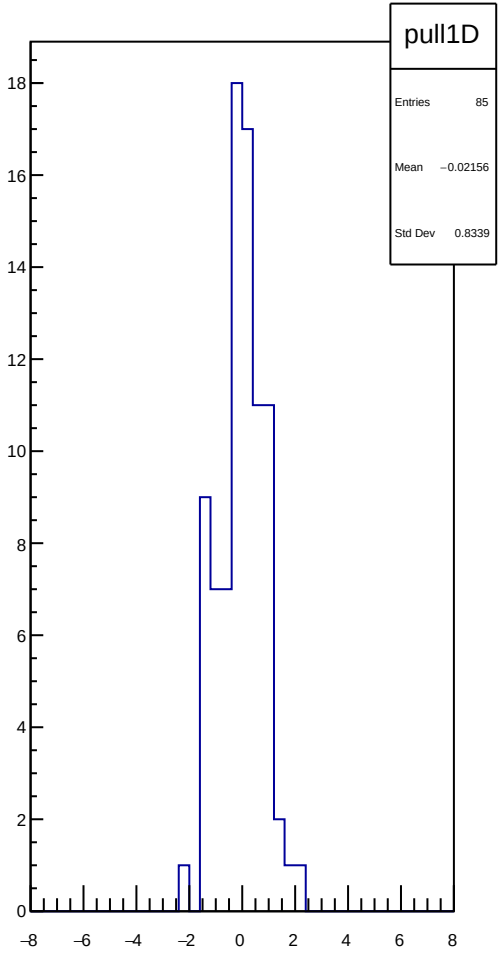

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.15 / 84
p0 −0.02984 ± 0.6477
pull
Entries 85
Mean −103.7
Std Dev 0
pull1D
Entries 85
Mean −0.01788
Std Dev 0.9709

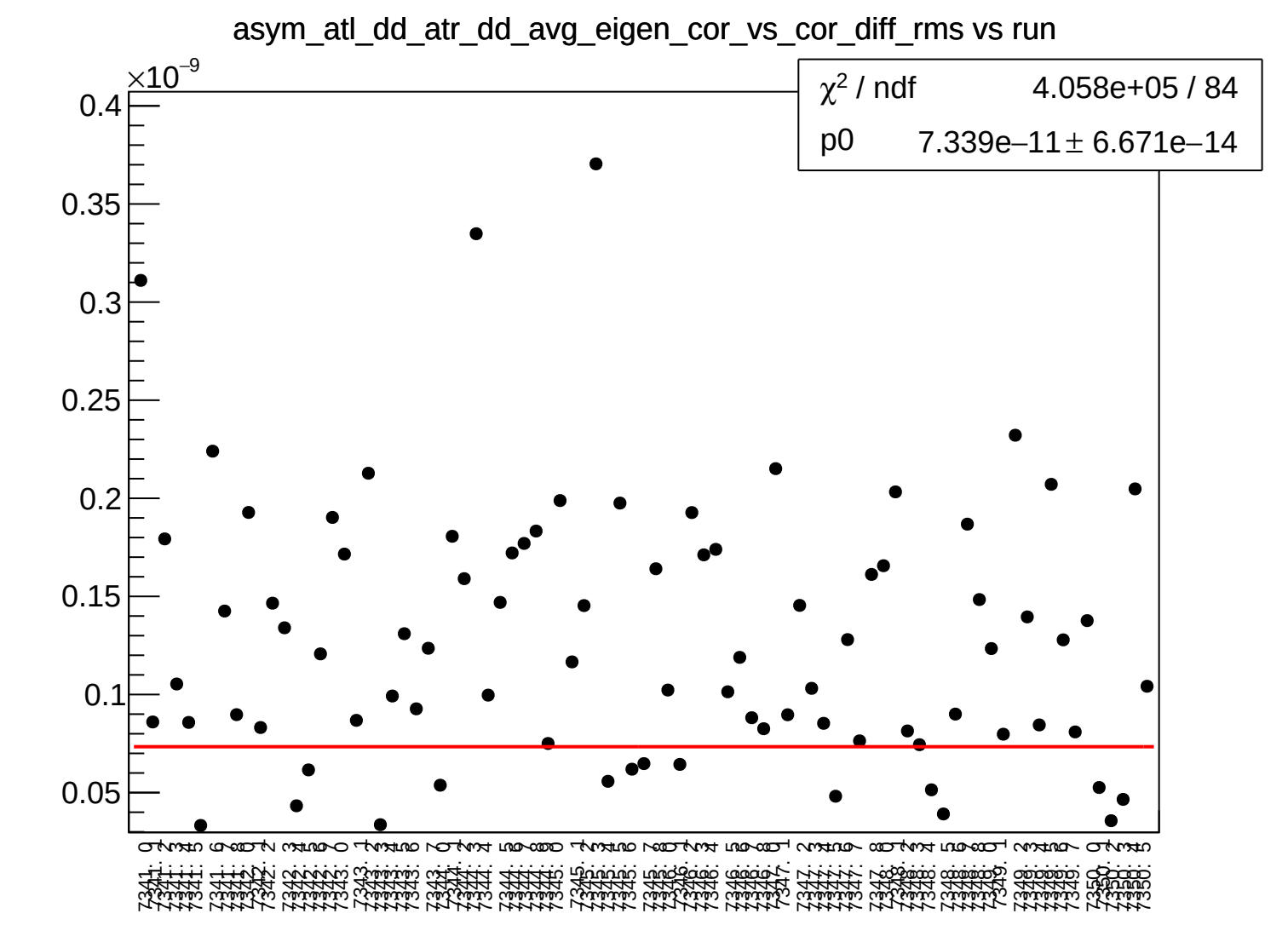

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

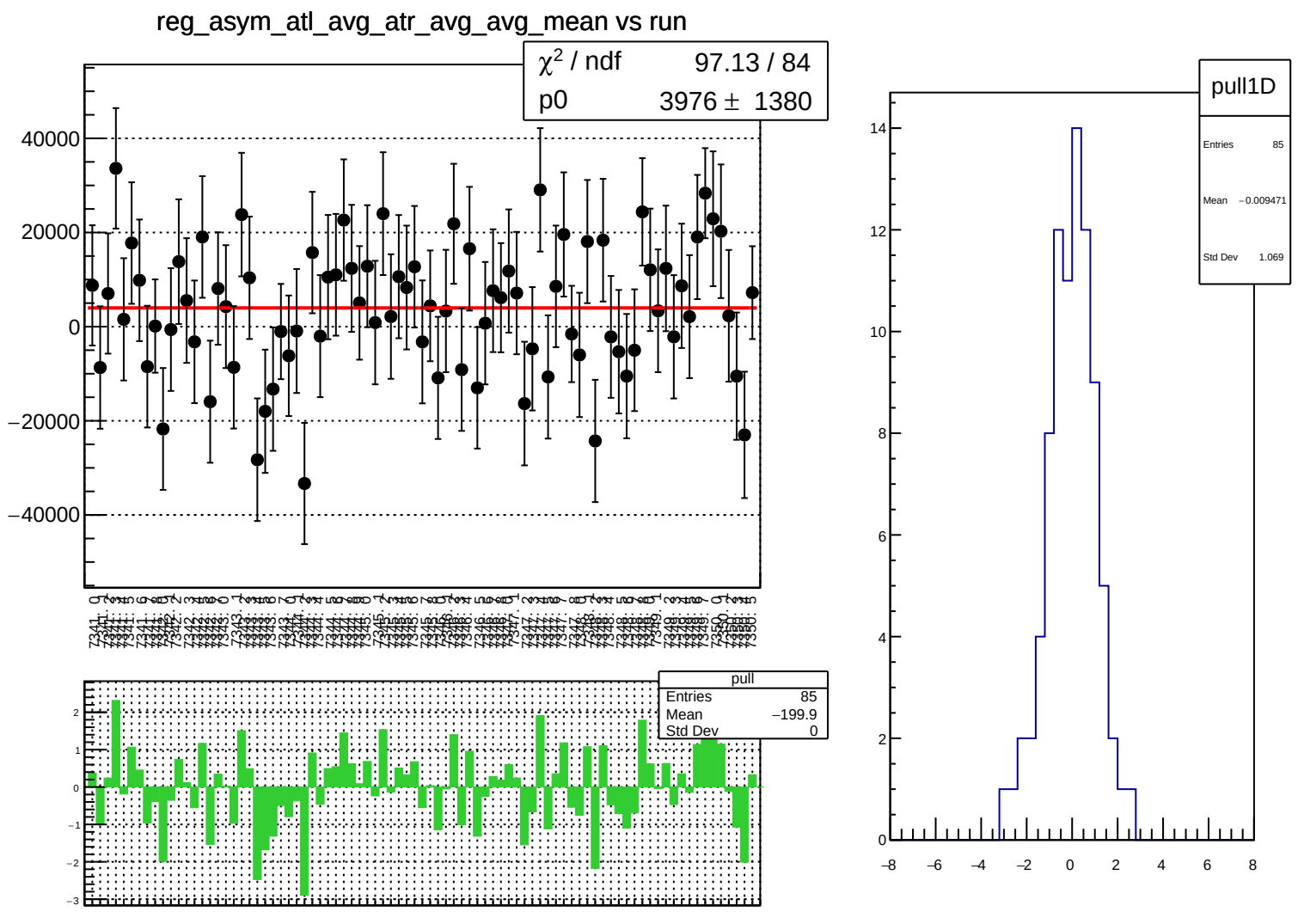

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.15 / 84
p0 −0.02984 ± 0.6477
pull
Entries 85
Mean −103.7
Std Dev 0
pull1D
Entries 85
Mean −0.01788
Std Dev 0.9709

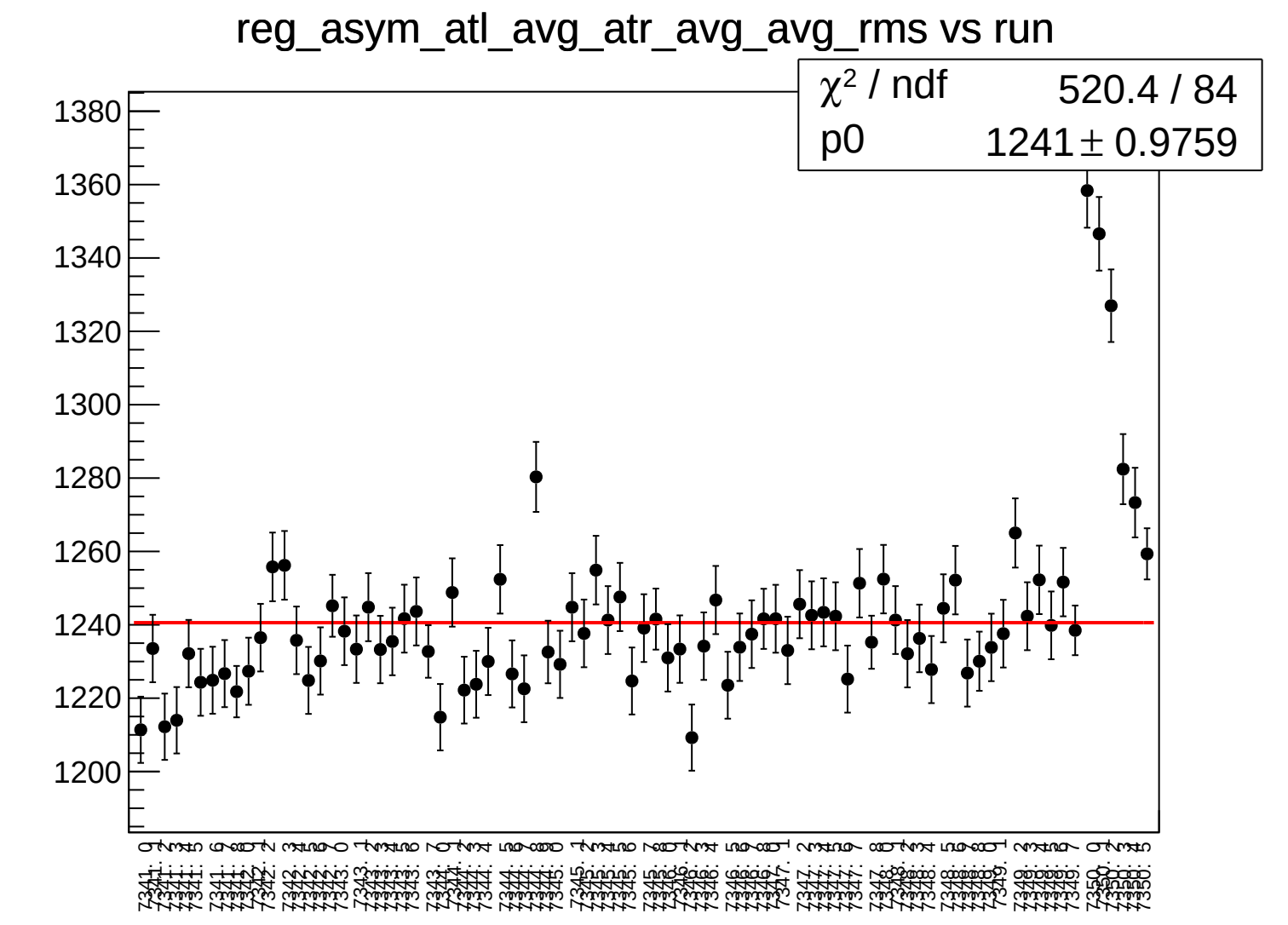

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

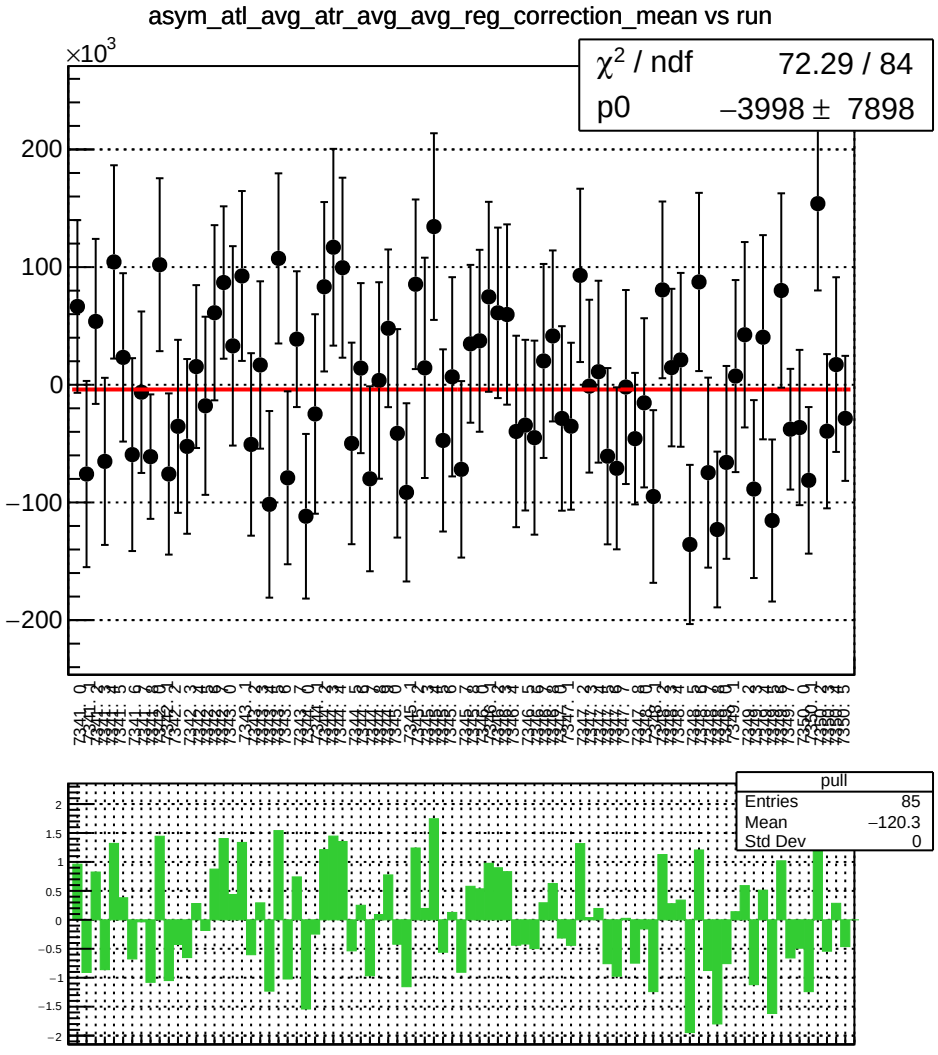

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.15 / 84
p0 −2.215e−14 ± 9.434e−14
pull
Entries 85
Mean 23.45
Std Dev 0

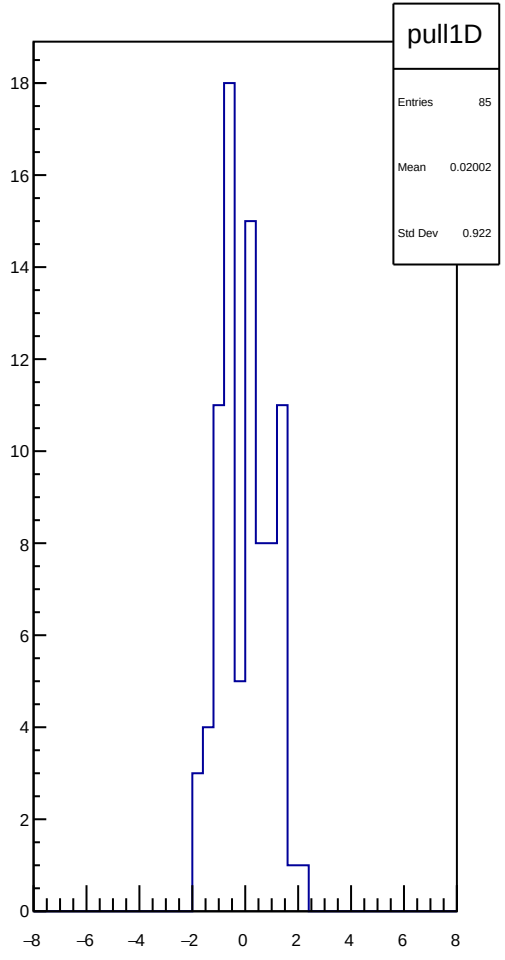

pull1D
Entries 85
Mean −0.02156
Std Dev 0.8339

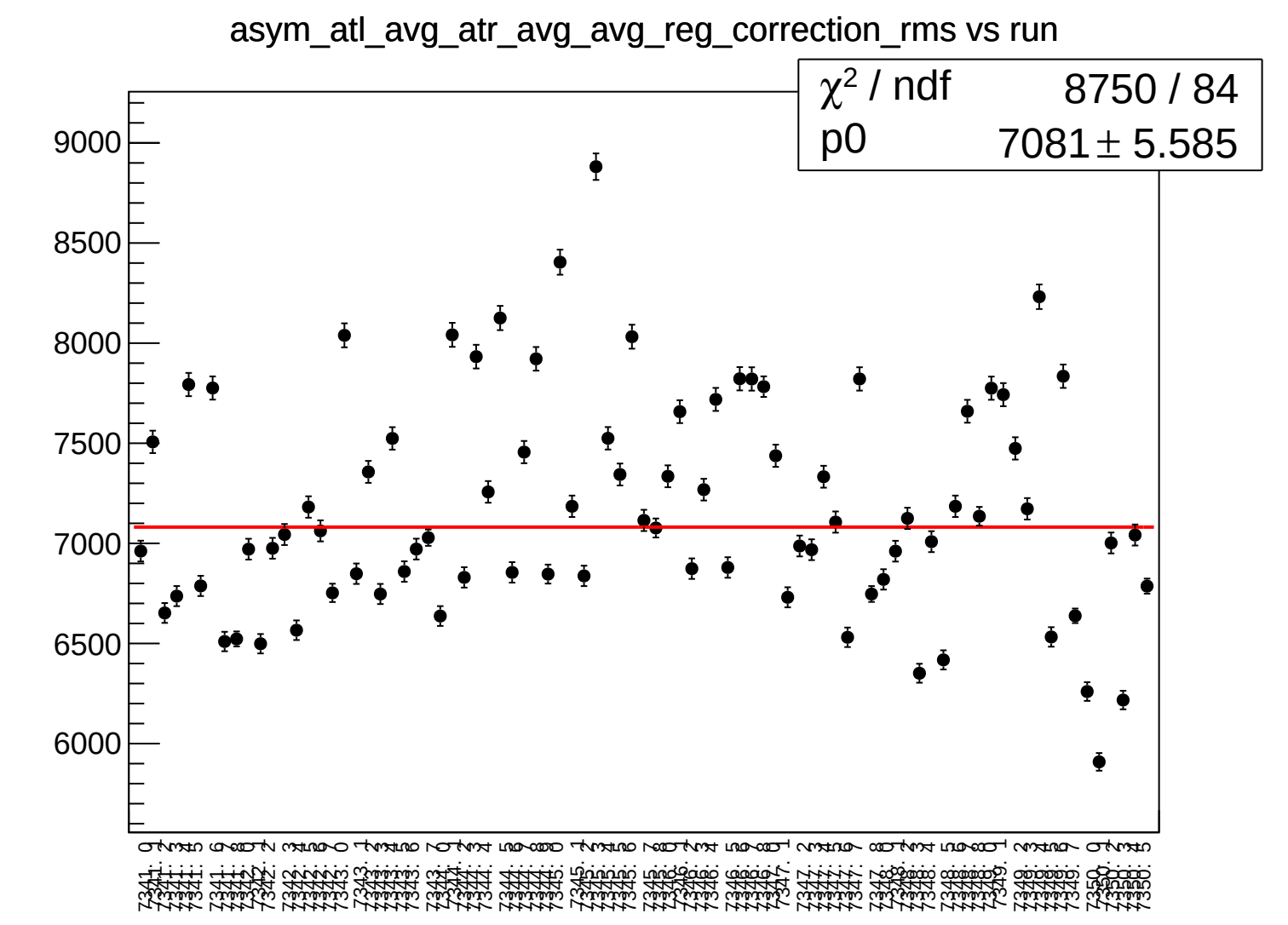

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.058e+05 / 84
p0 7.339e−11 ± 6.671e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

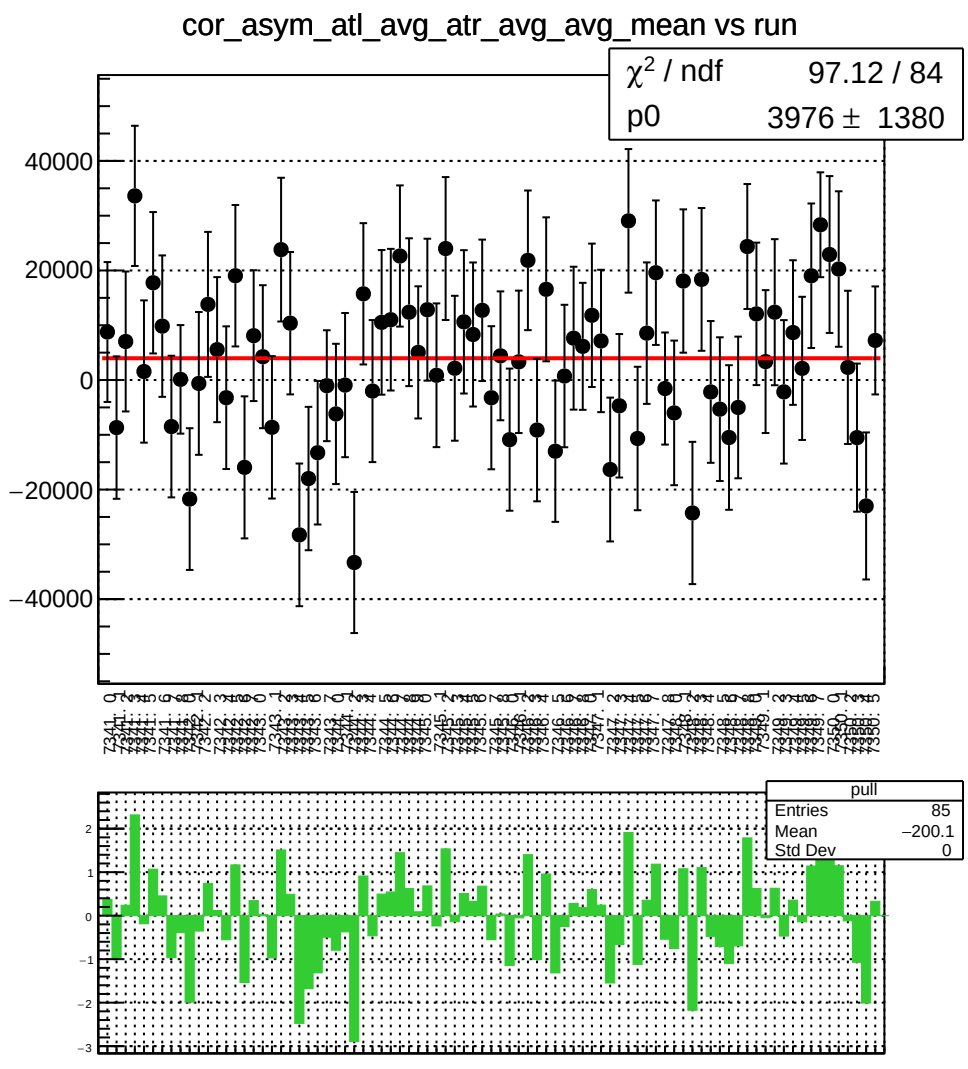

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 97.13 / 84
p0 3976 ± 1380
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −199.9
Std Dev 0
pull1D
Entries 85
Mean −0.009471
Std Dev 1.069

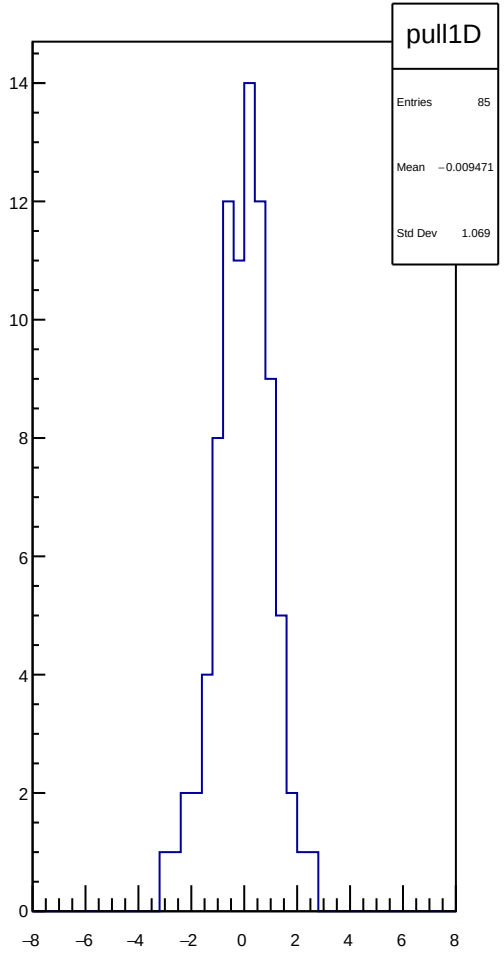

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 520.4 / 84
p0 1241 ± 0.9759
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

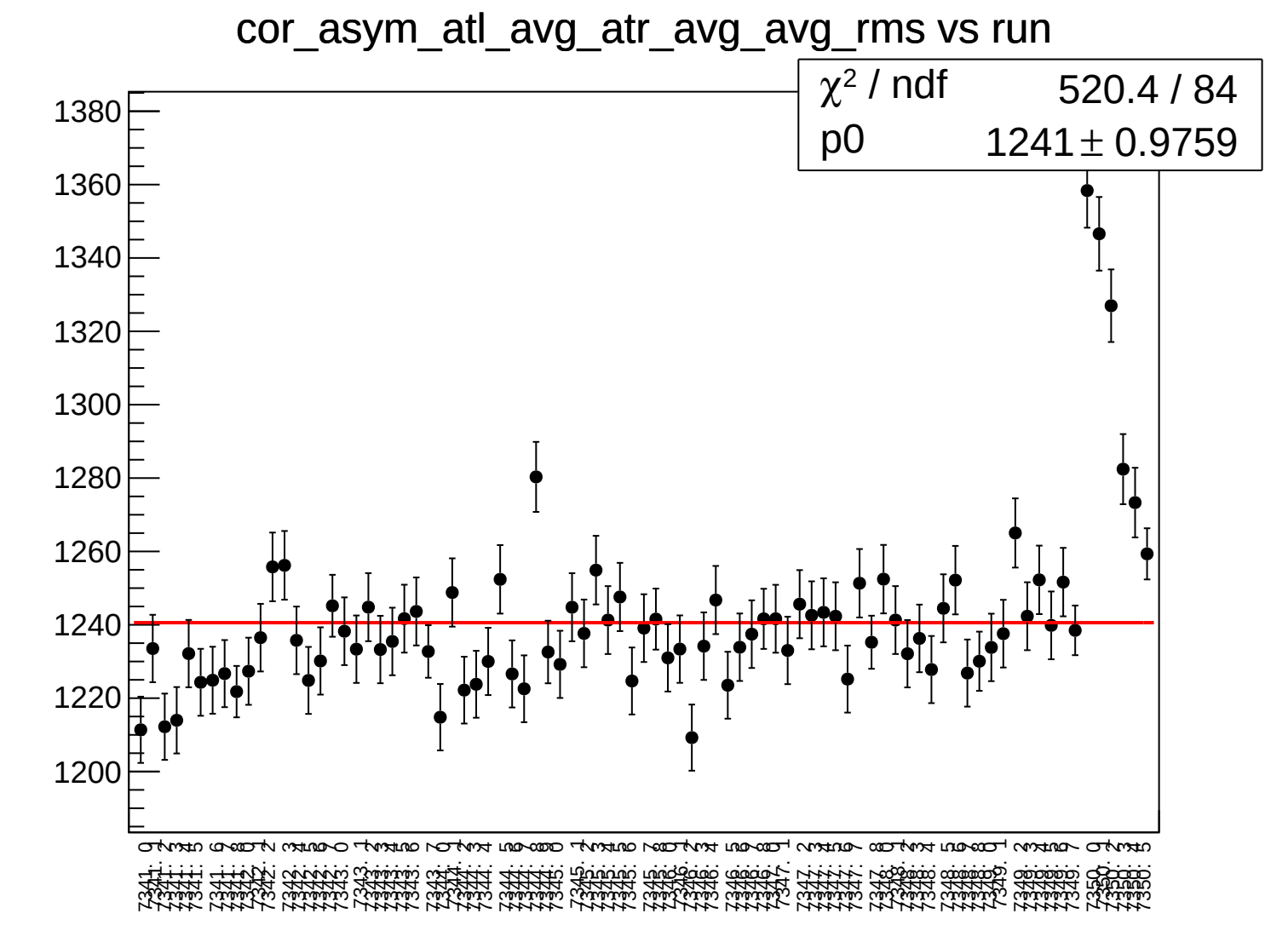

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.29 / 84
p0 −3998 ± 7898
200
100
0
−100
−200
pull
Entries 85
Mean −120.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

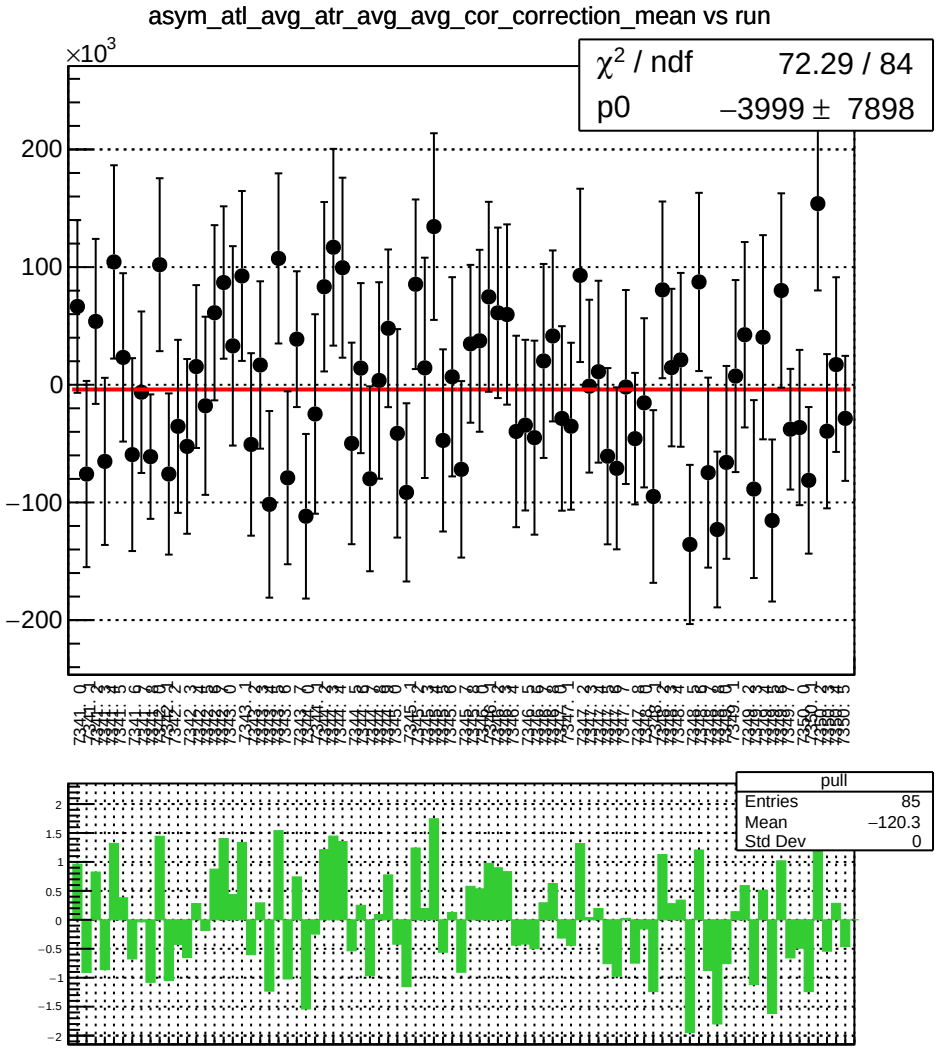

pull1D
Entries 85
Mean 0.02002
Std Dev 0.922
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

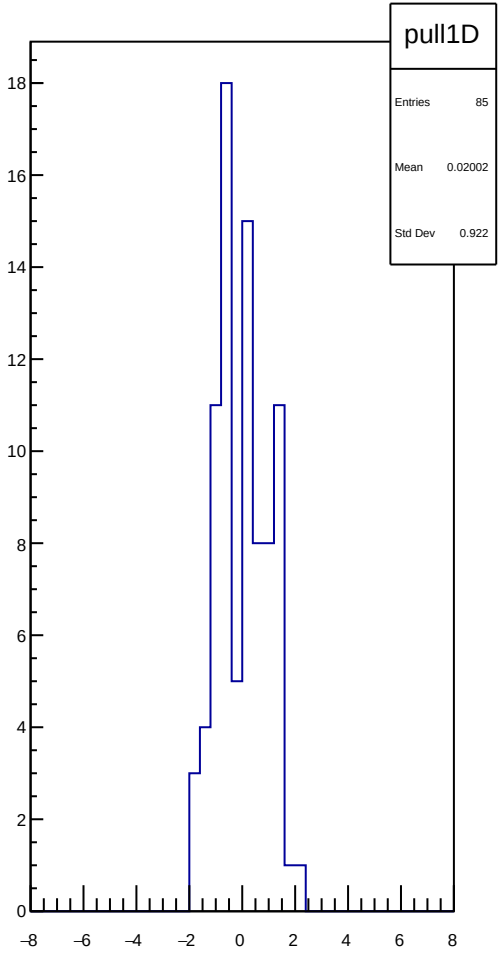

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 8750 / 84
p0 7081 ± 5.585
9000
8500
8000
7500
7000
6500
6000

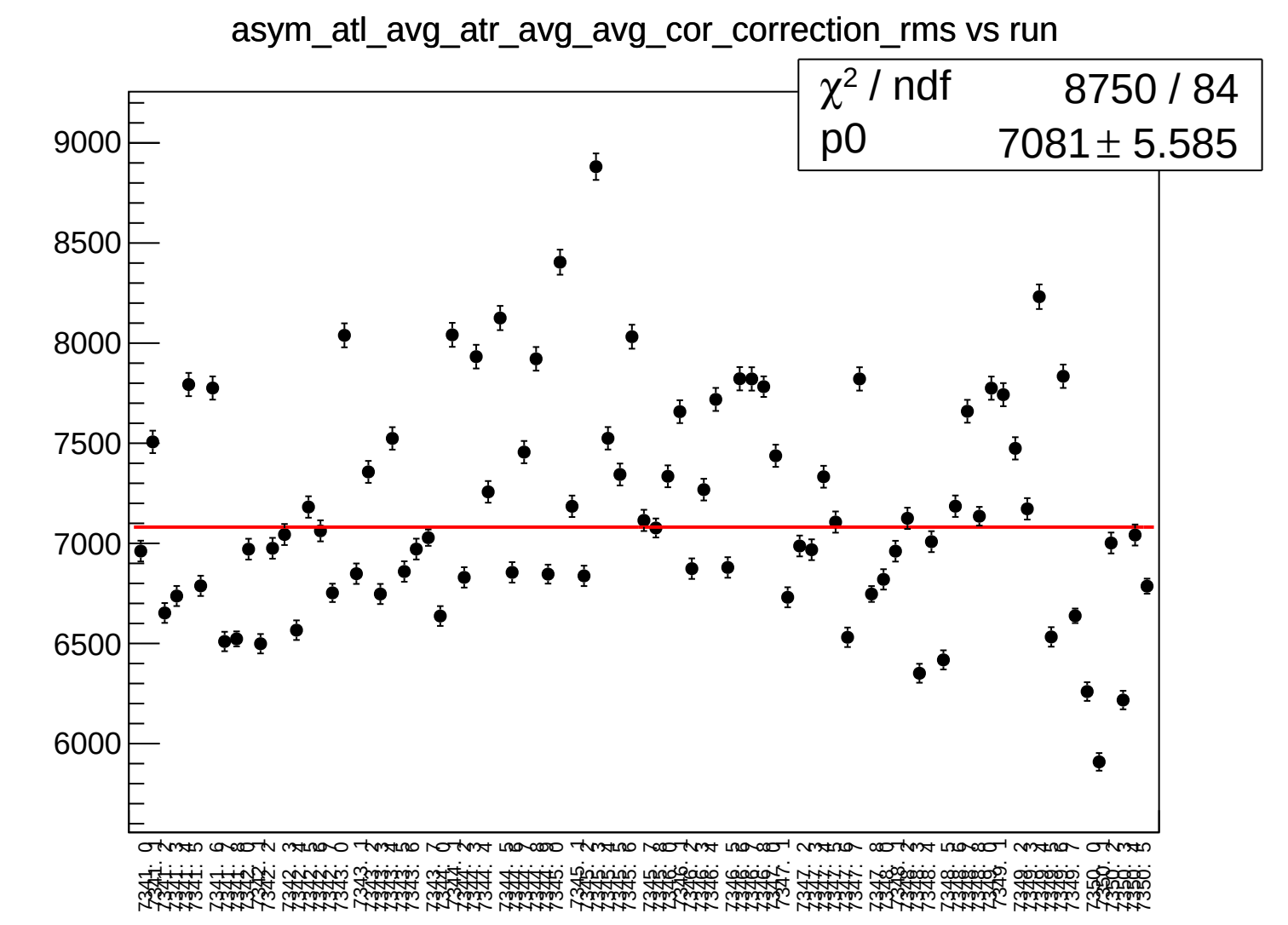

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 97.12 / 84
p0 3976 ± 1380
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −200.1
Std Dev 0
2
1
0
−1
−2
−3

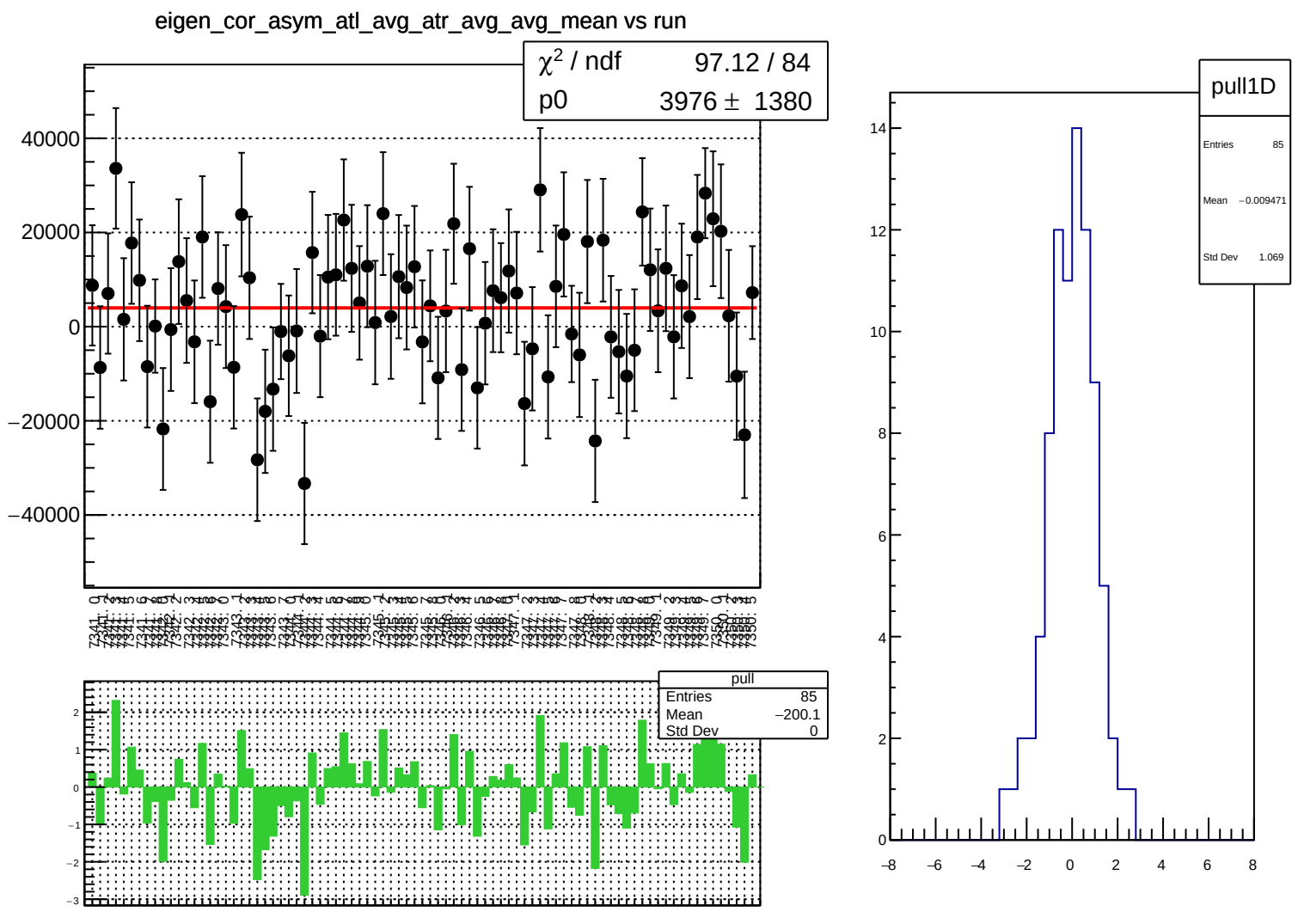

pull1D
Entries 85
Mean −0.009471
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

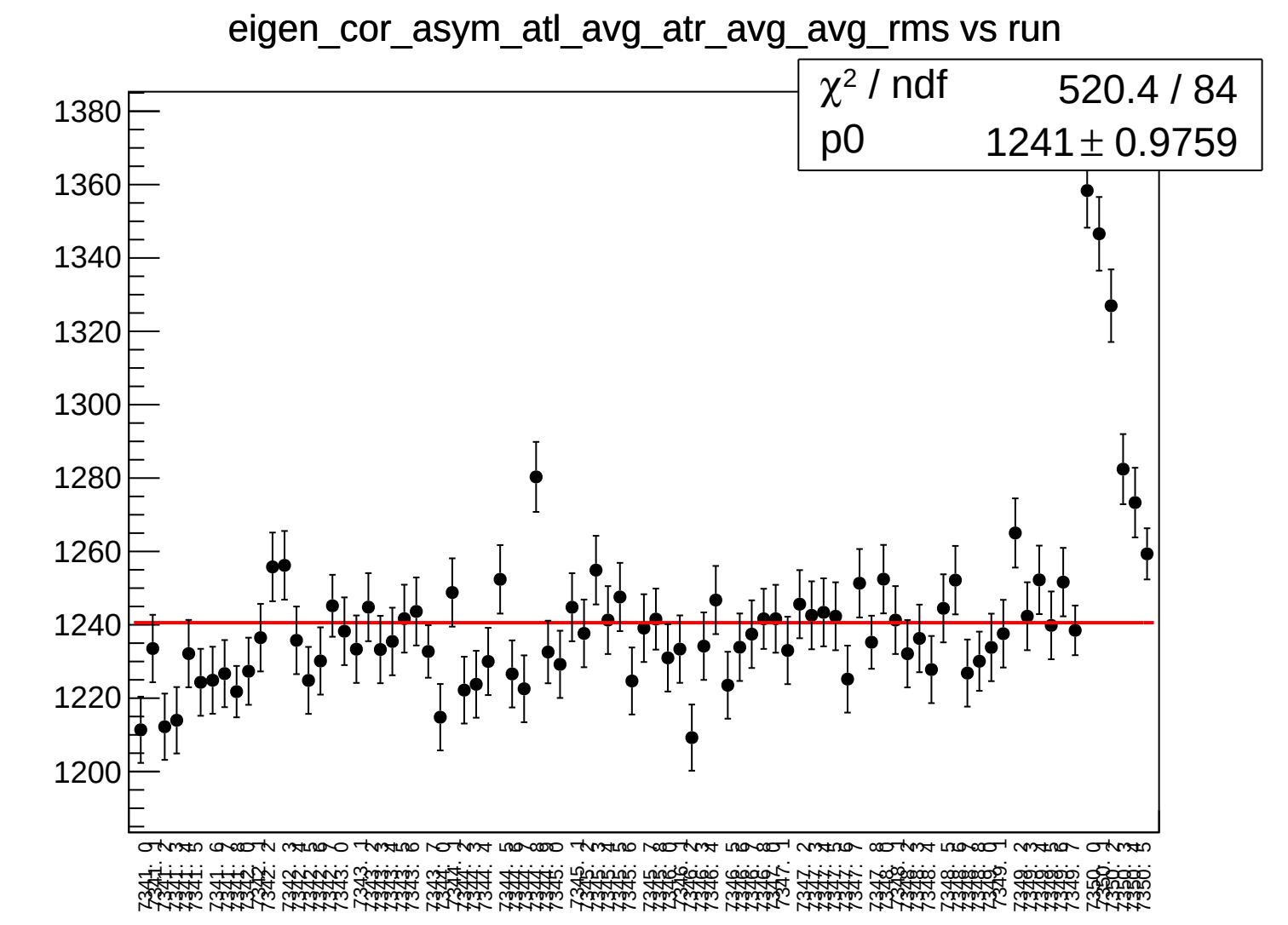

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 520.4 / 84
p0 1241 ± 0.9759
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

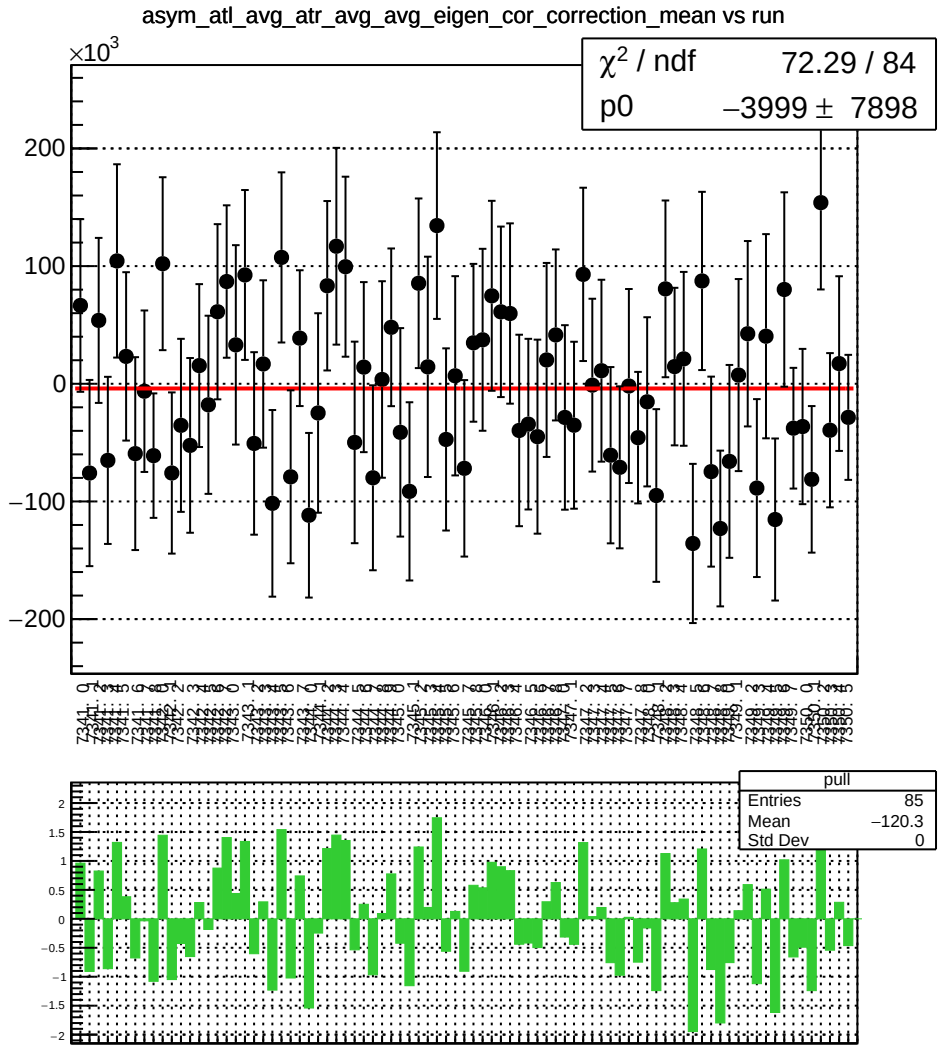

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
χ² / ndf 72.29 / 84
p0 −3999 ± 7898
pull
Entries 85
Mean −120.3
Std Dev 0

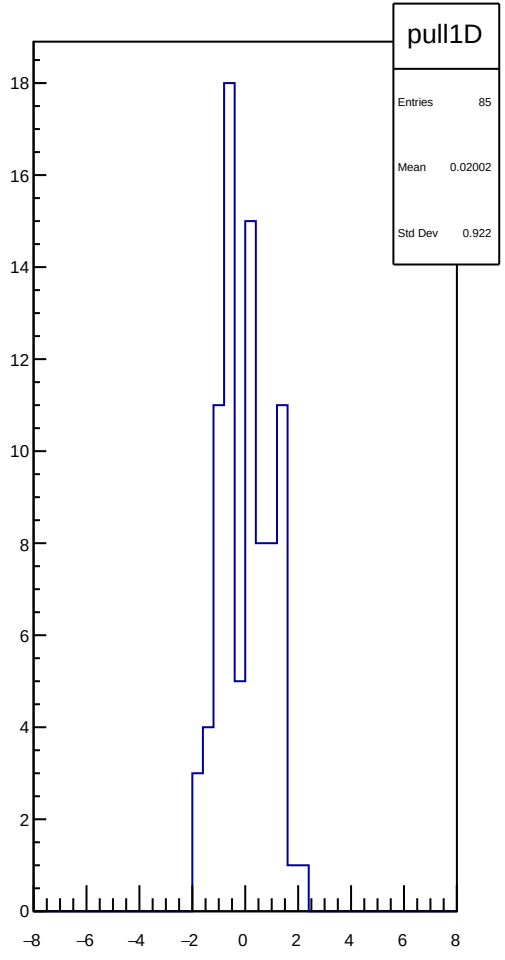

pull1D
Entries 85
Mean 0.02002
Std Dev 0.922

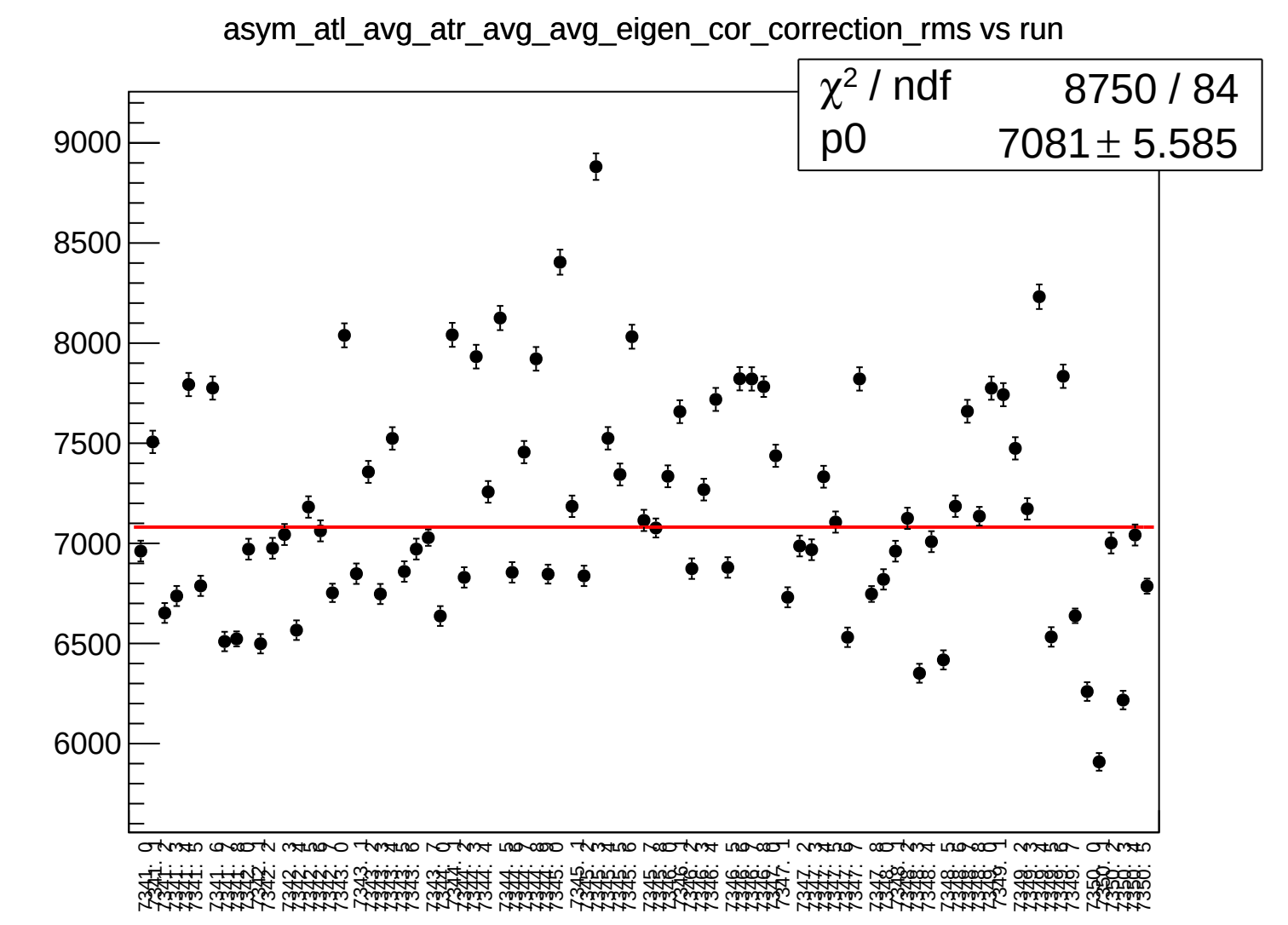

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 8750 / 84
p0 7081 ± 5.585
9000
8500
8000
7500
7000
6500
6000

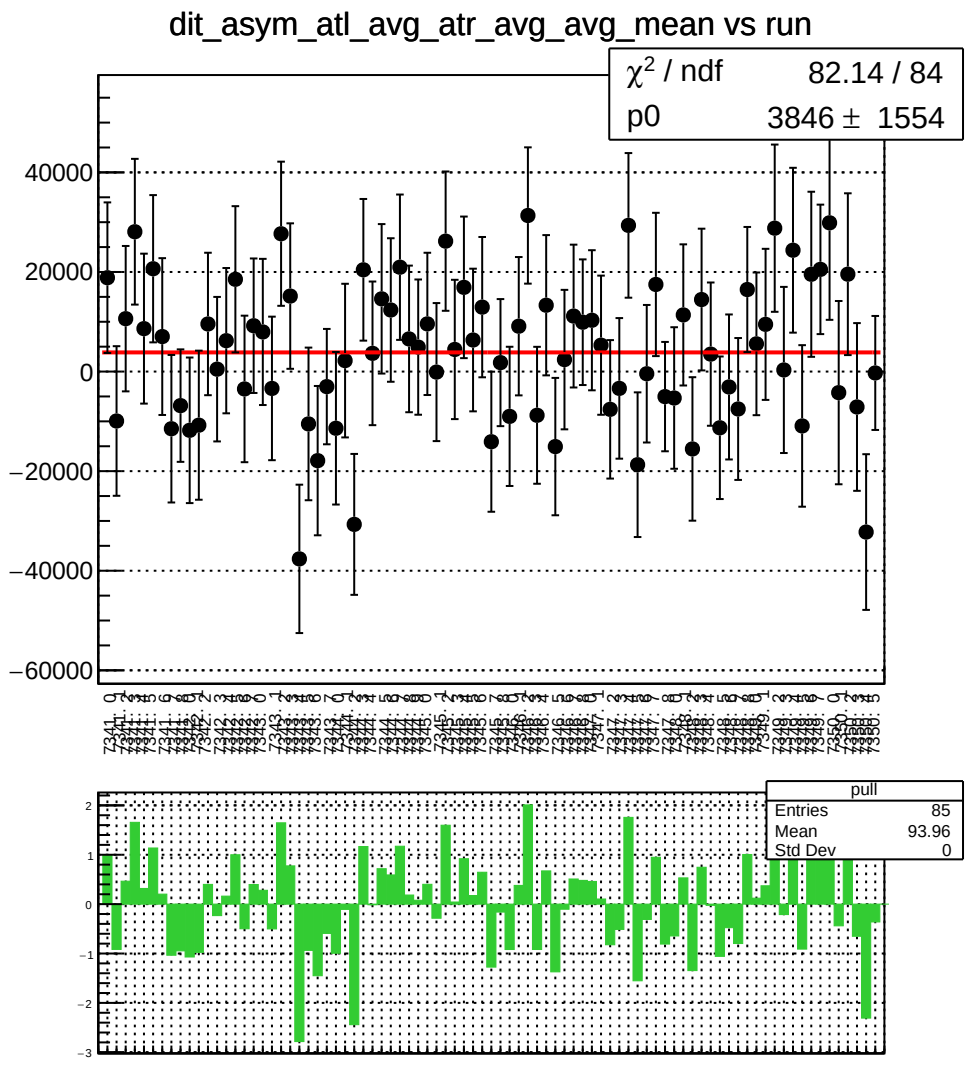

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 97.12 / 84
p0 3976 ± 1380
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −200.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.009471
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

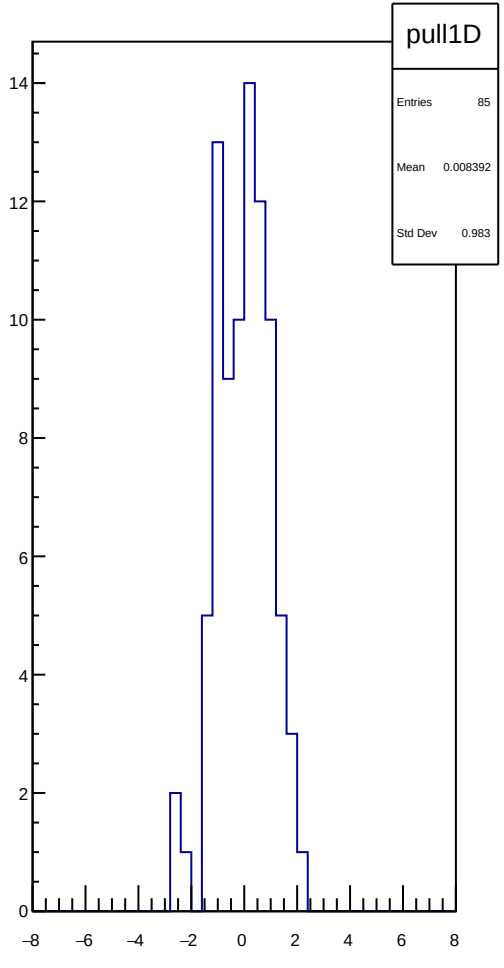

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 520.4 / 84
p0 1241 ± 0.9759
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

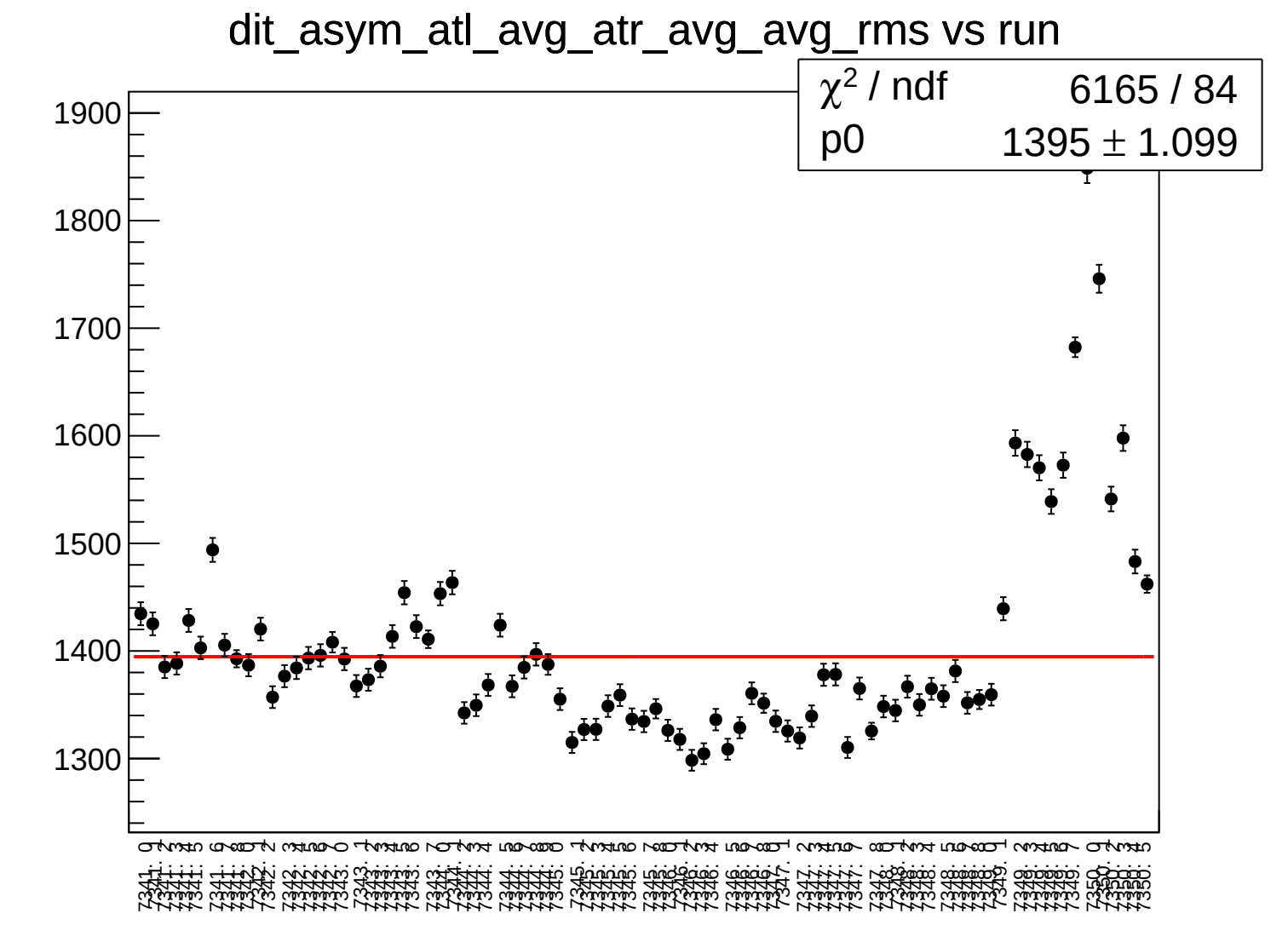

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.29 / 84
p0 −3999 ± 7898
200
100
0
−100
−200
pull
Entries 85
Mean −120.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

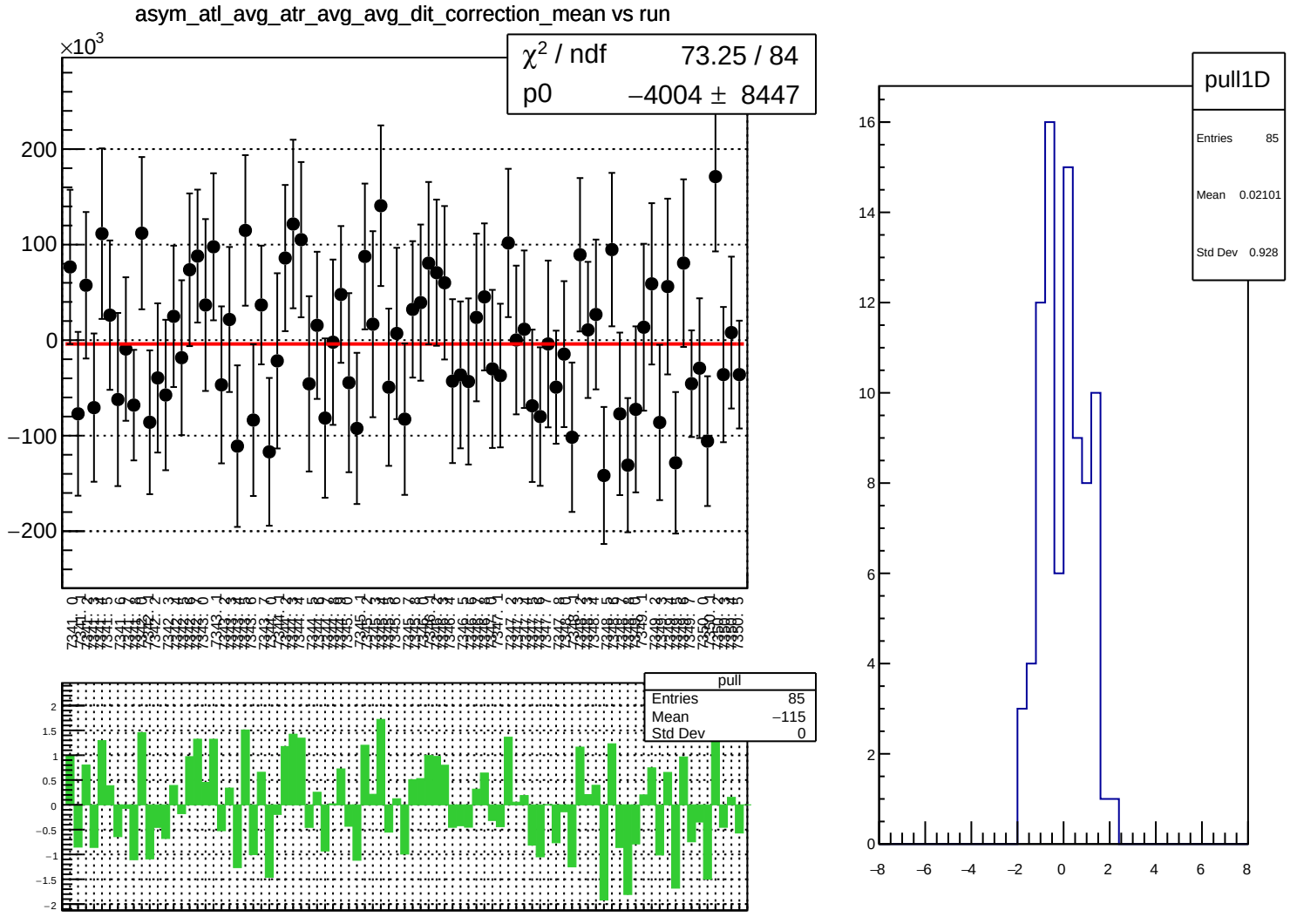

pull1D
Entries 85
Mean 0.02002
Std Dev 0.922
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

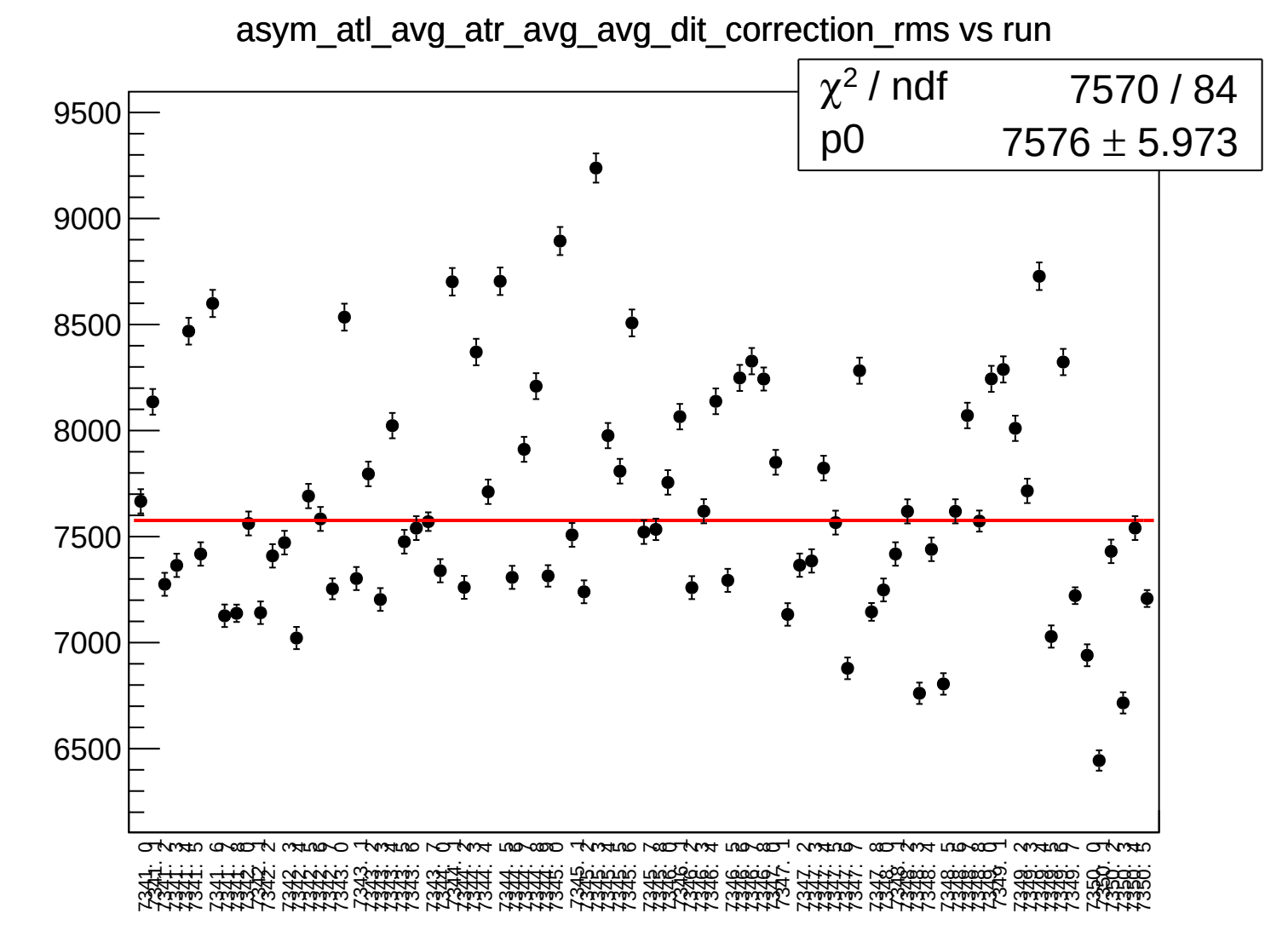

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 8750 / 84
p0 7081 ± 5.585
9000
8500
8000
7500
7000
6500
6000

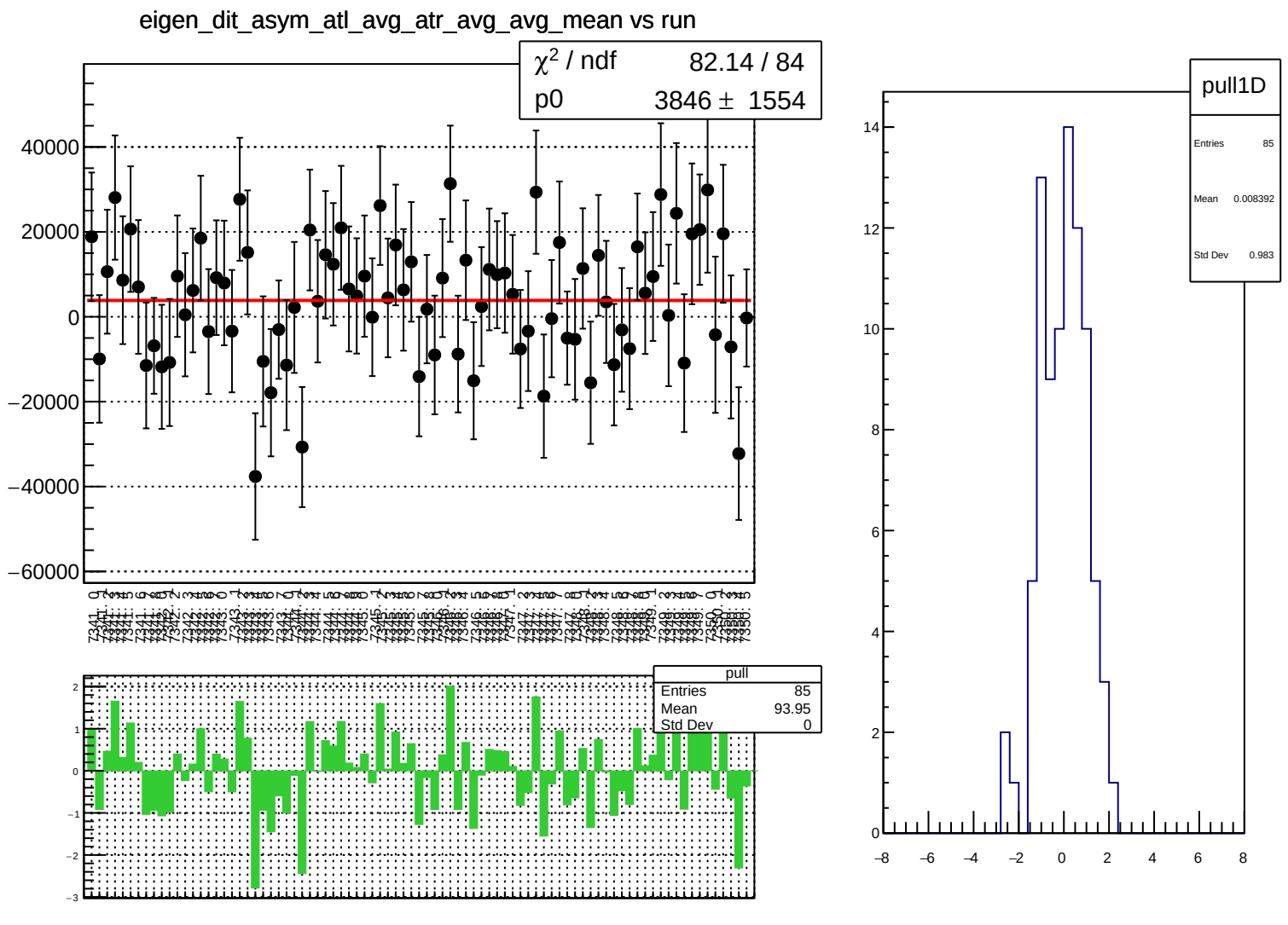

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 82.14 / 84
p0 3846 ± 1554
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 93.96
Std Dev 0
2
1
0
−1
−2
−3

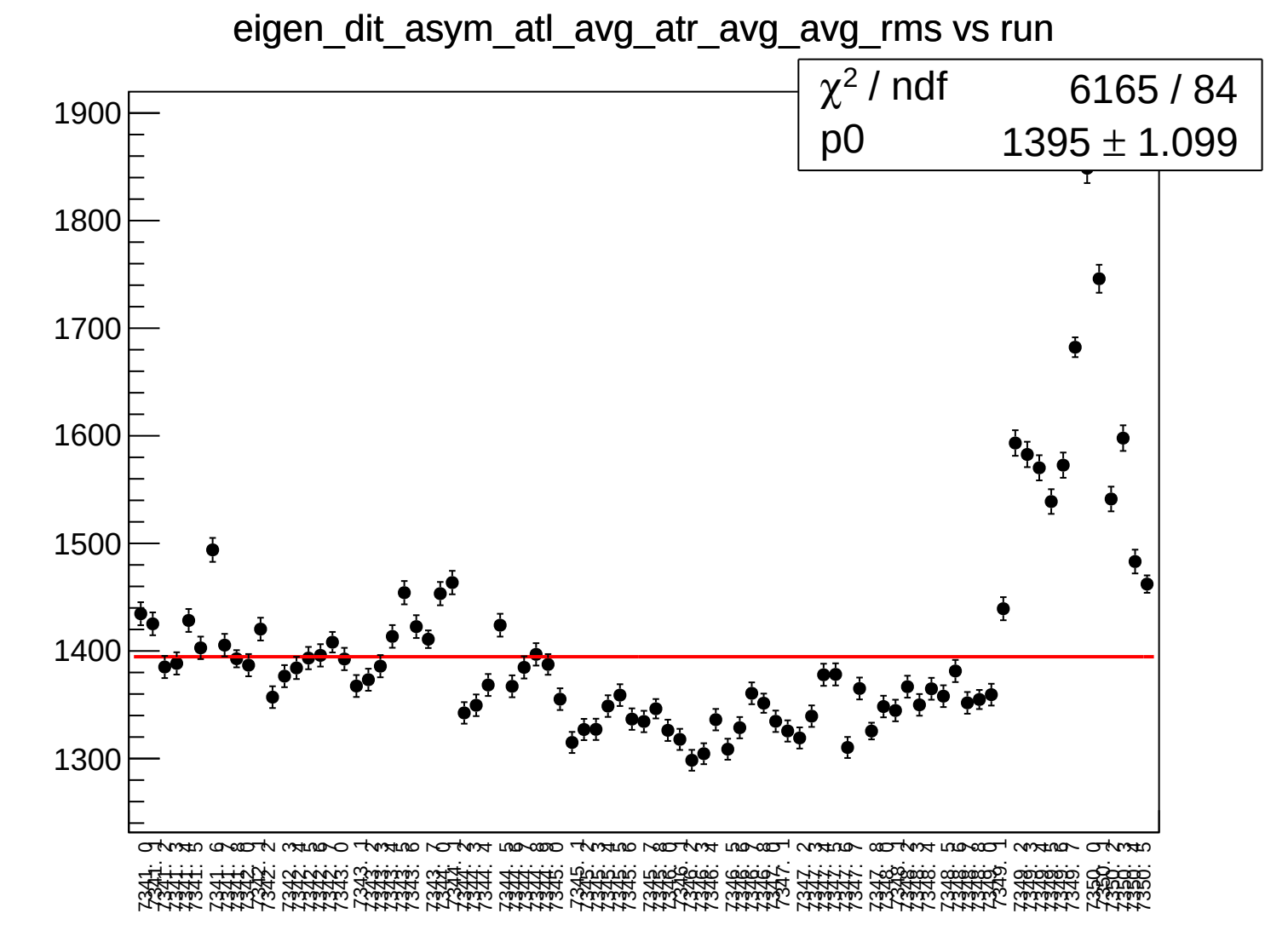

pull1D
Entries 85
Mean 0.008392
Std Dev 0.983
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

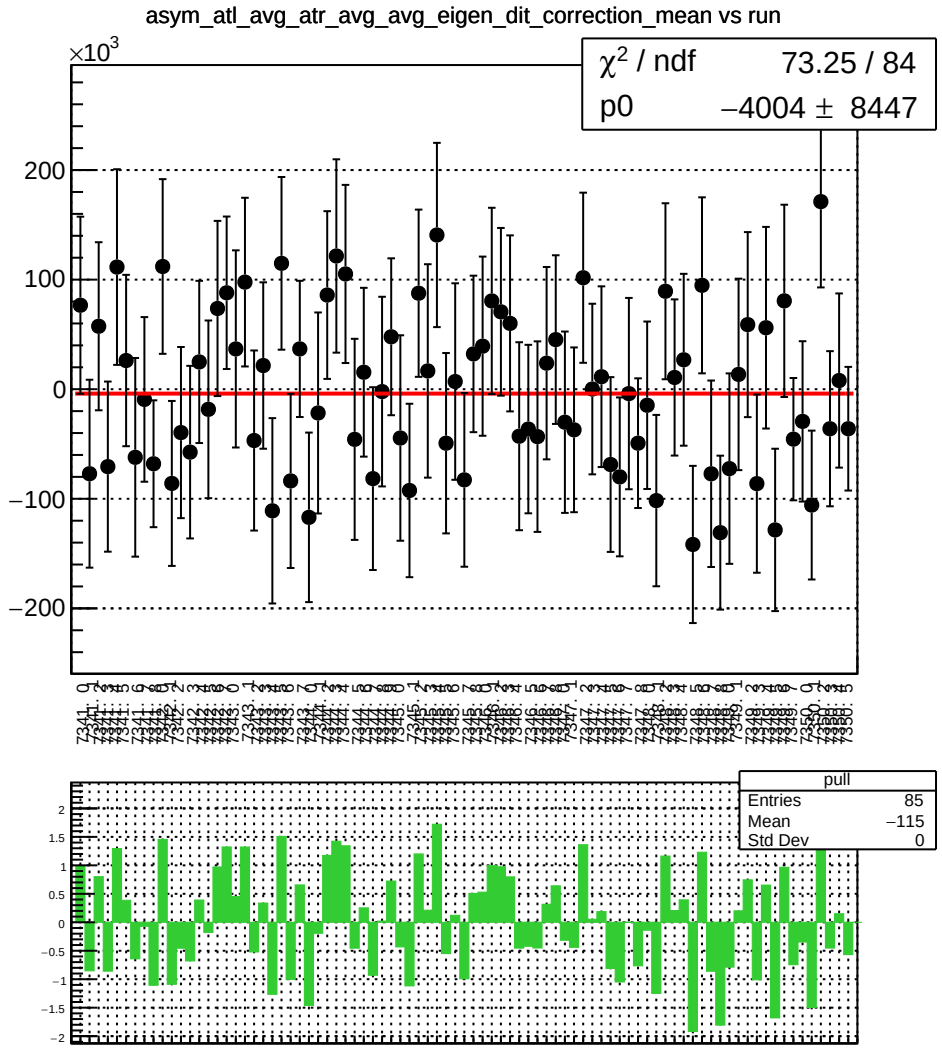

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 6165 / 84
p0 1395 ± 1.099
1900
1800
1700
1600
1500
1400
1300

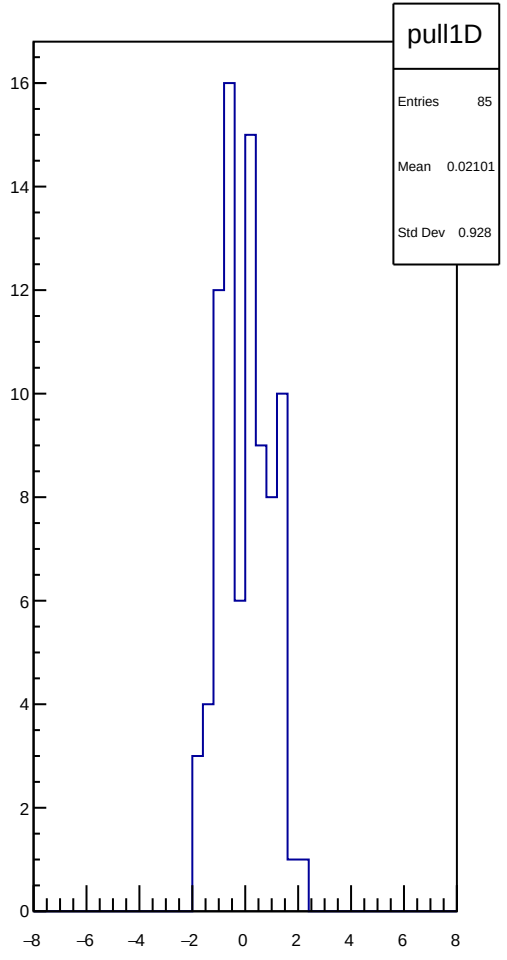

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.25 / 84
p0 −4004 ± 8447
200
100
0
−100
−200
pull
Entries 85
Mean −115
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.02101
Std Dev 0.928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

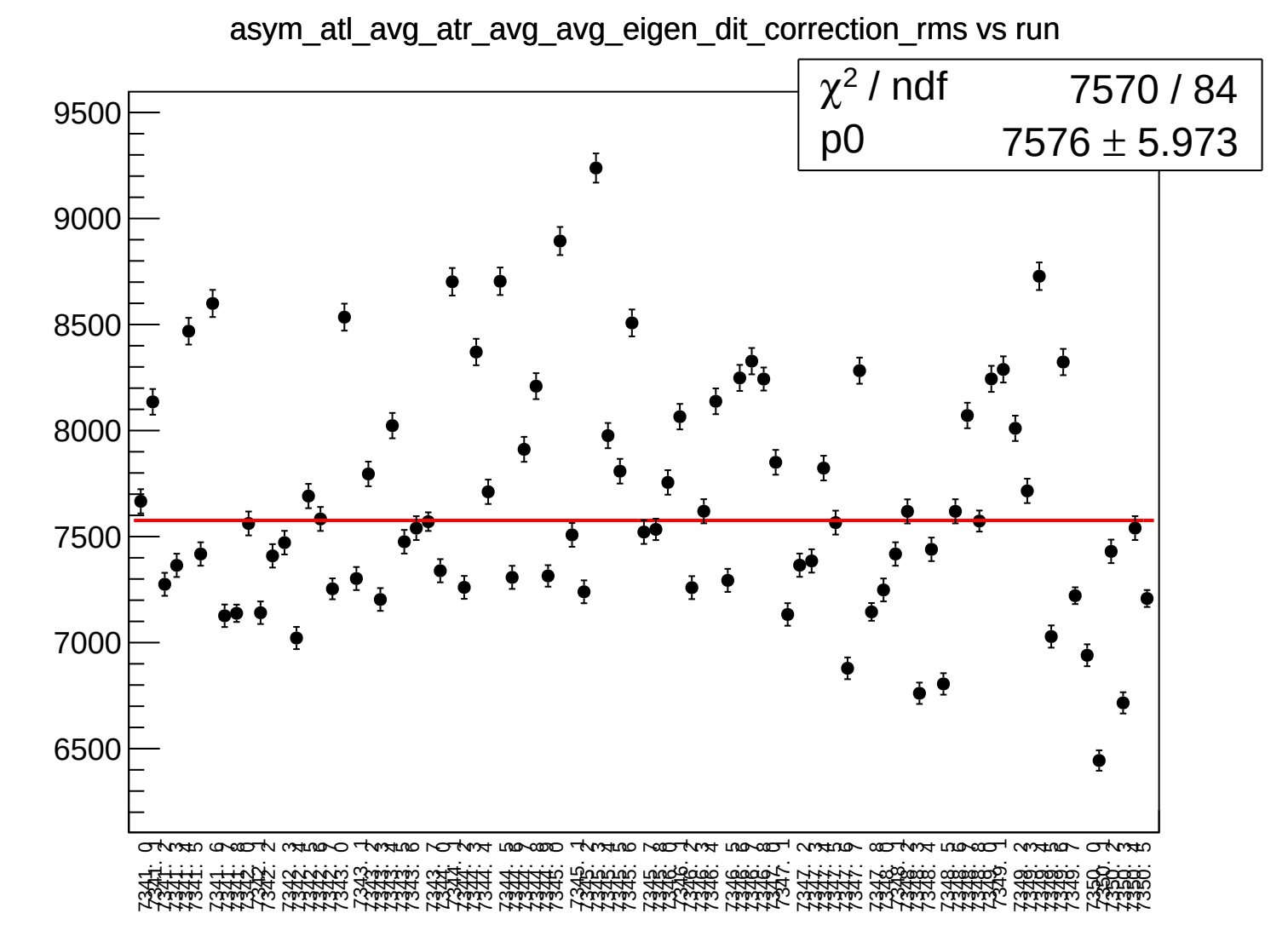

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 7570 / 84
p0 7576 ± 5.973
9500
9000
8500
8000
7500
7000
6500

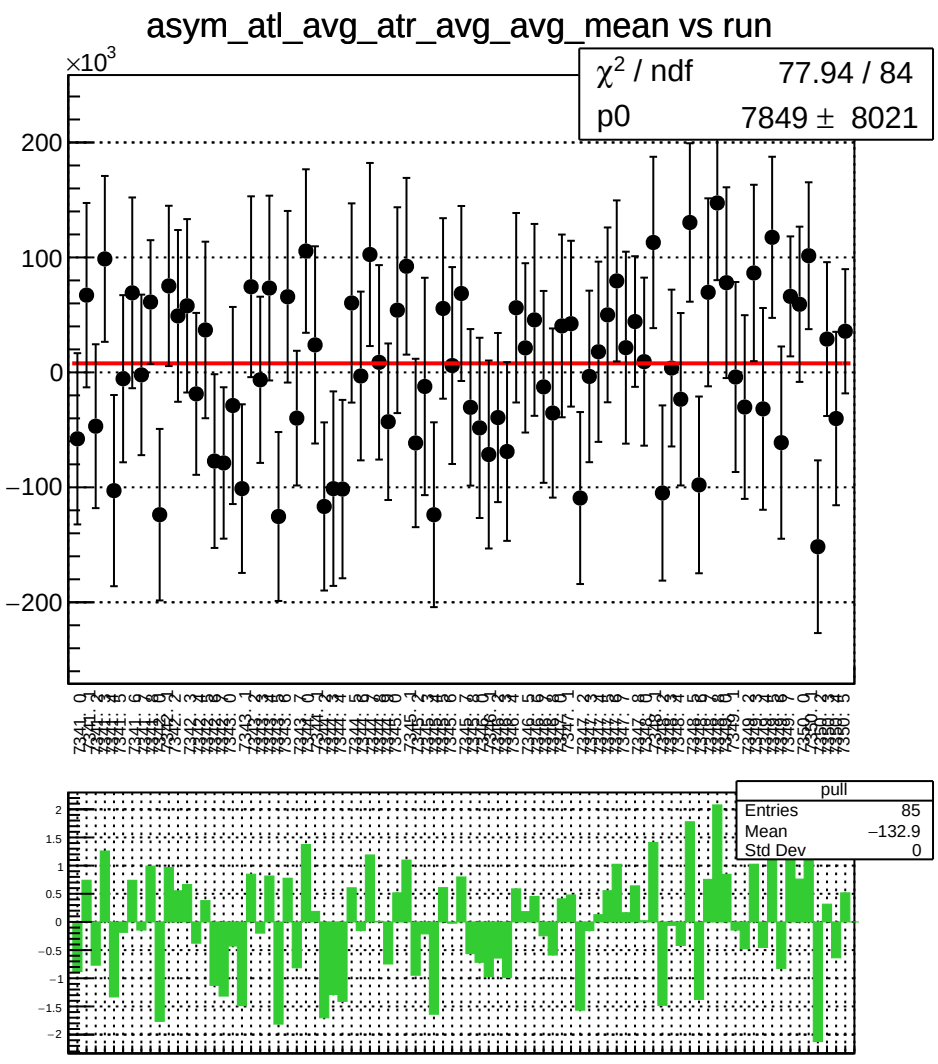

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 82.14 / 84
p0 3846 ± 1554
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 93.95
Std Dev 0
pull1D
Entries 85
Mean 0.008392
Std Dev 0.983

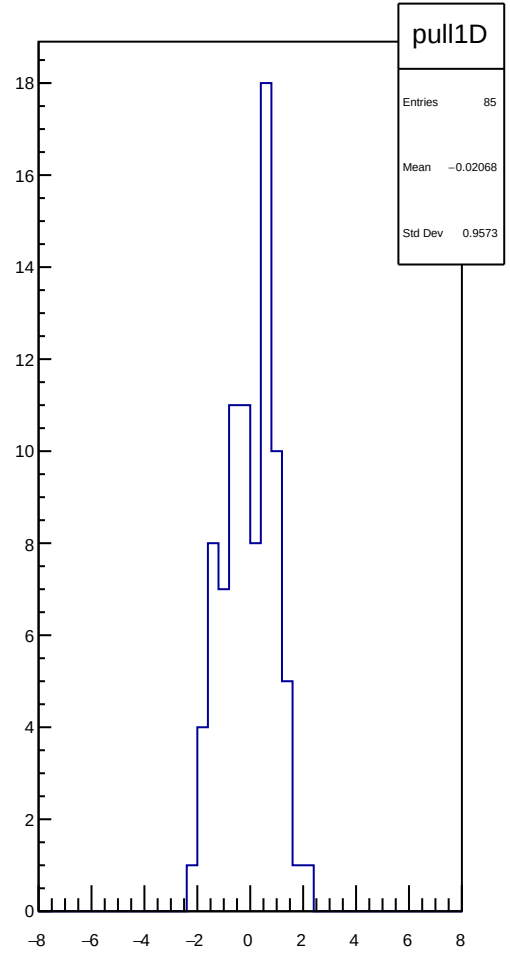

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6165 / 84
p0 1395 ± 1.099
1900
1800
1700
1600
1500
1400
1300

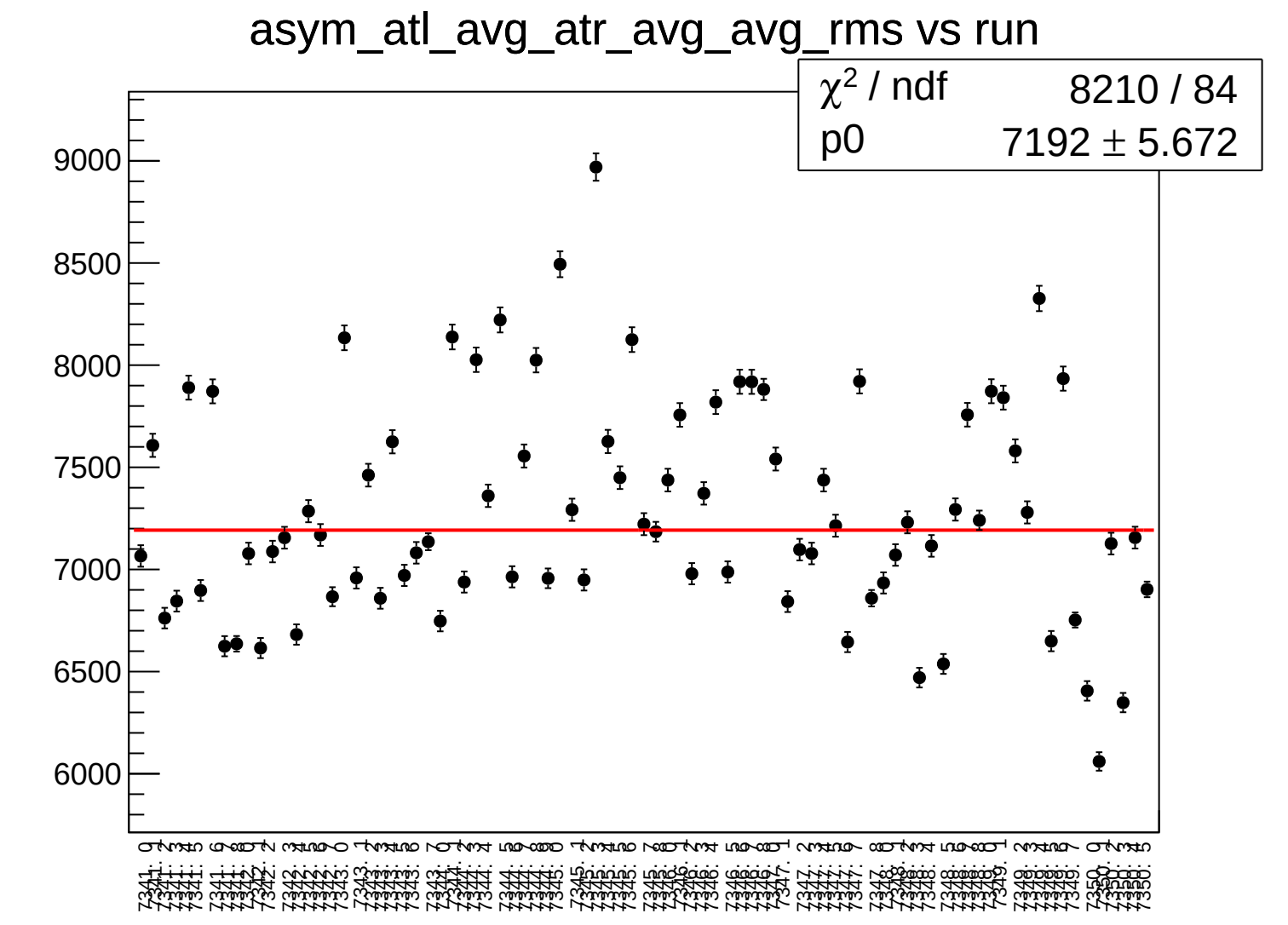

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.25 / 84
p0 −4004 ± 8447
200
100
0
−100
−200
pull
Entries 85
Mean −115
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

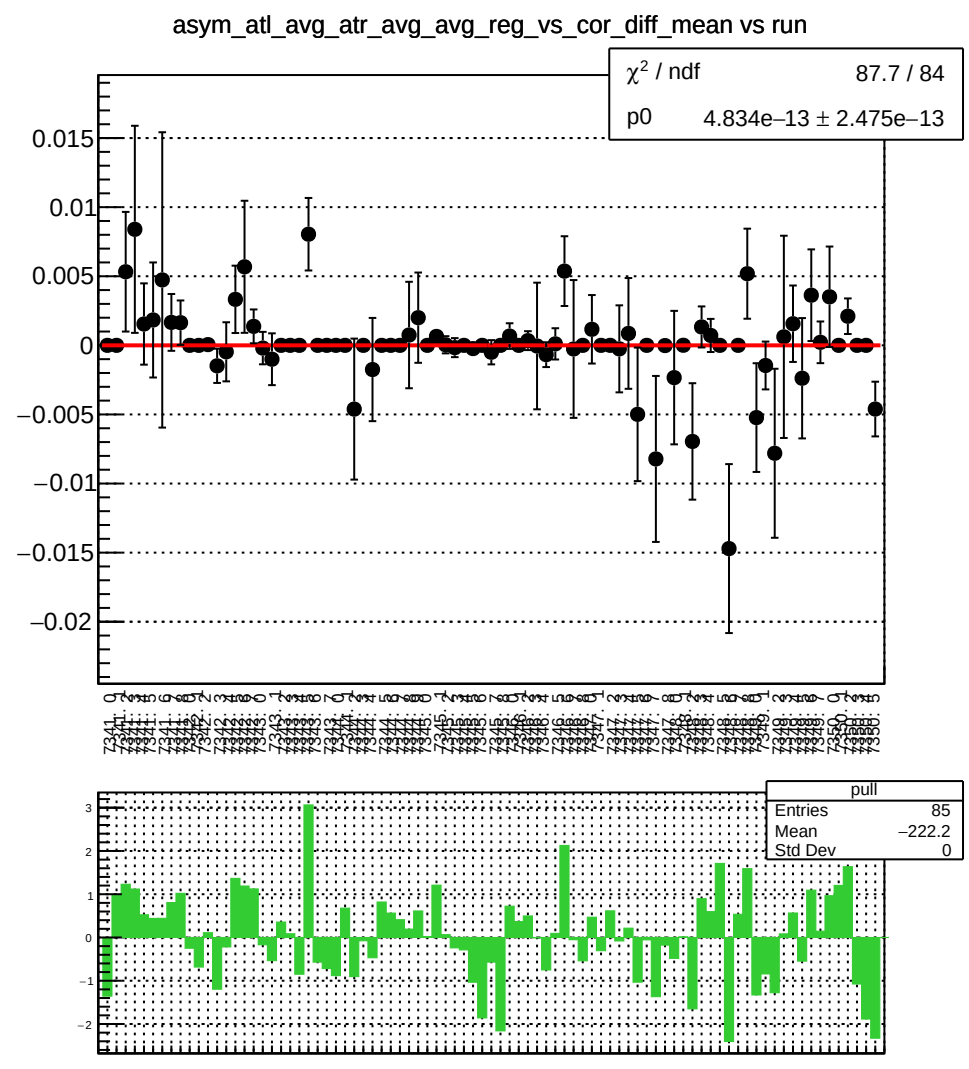

pull1D
Entries 85
Mean 0.02101
Std Dev 0.928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

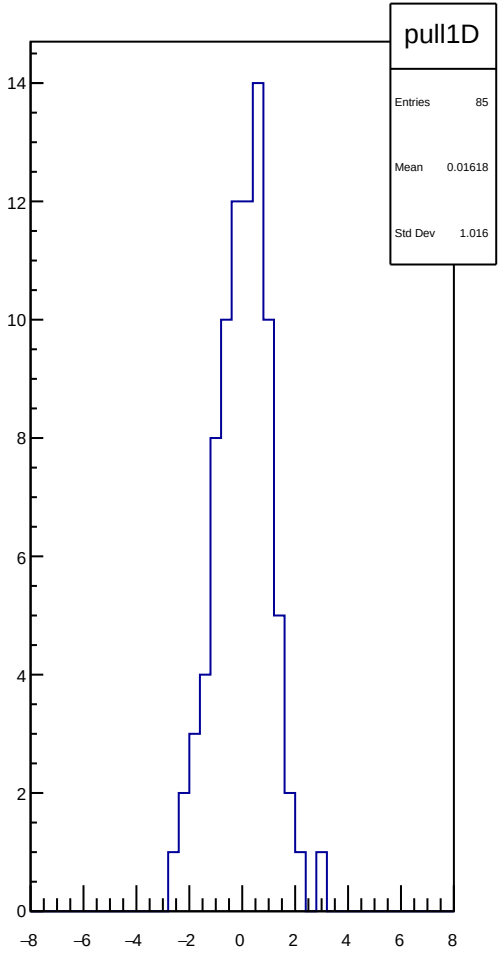

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7570 / 84
p0 7576 ± 5.973
9500
9000
8500
8000
7500
7000
6500

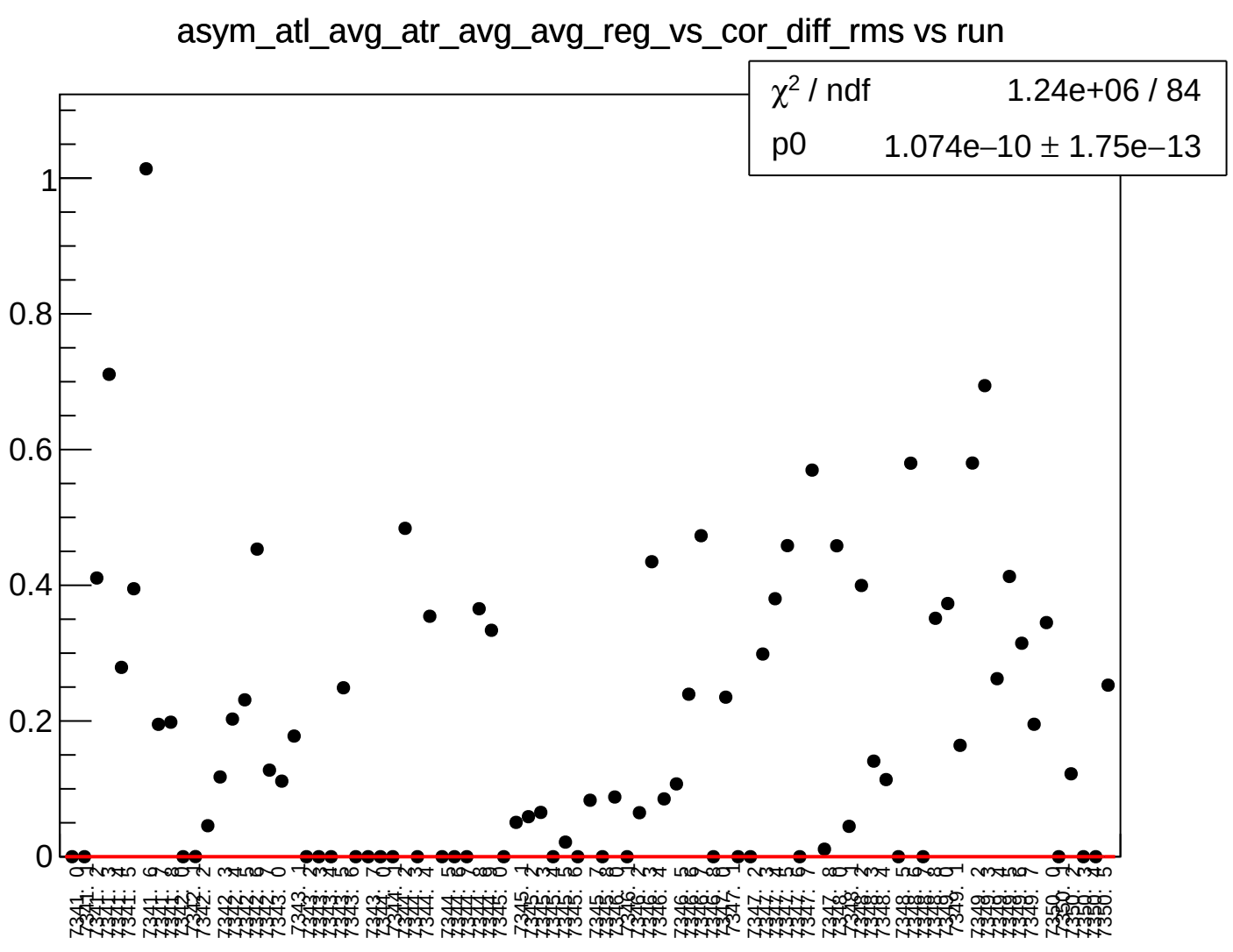

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 77.94 / 84
p0 7849 ± 8021
200
100
0
−100
−200
pull
Entries 85
Mean −132.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

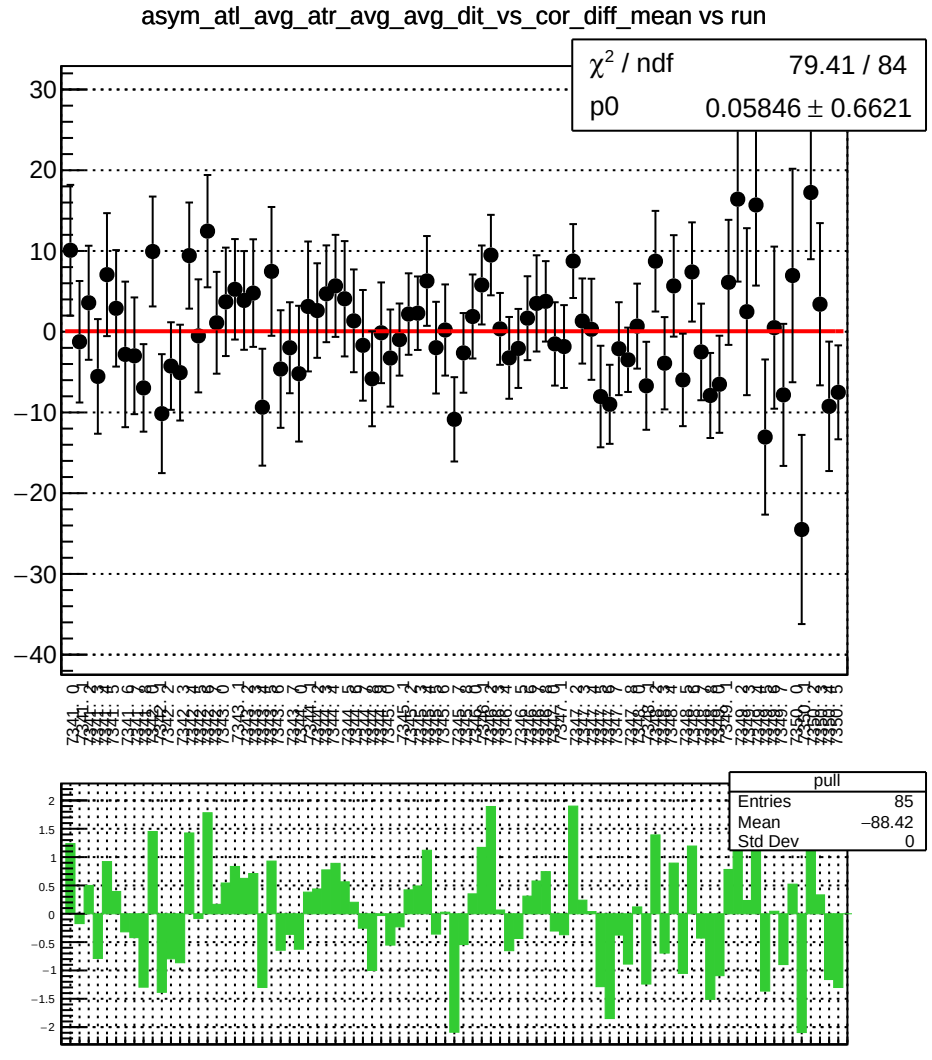

pull1D
Entries 85
Mean −0.02068
Std Dev 0.9573
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

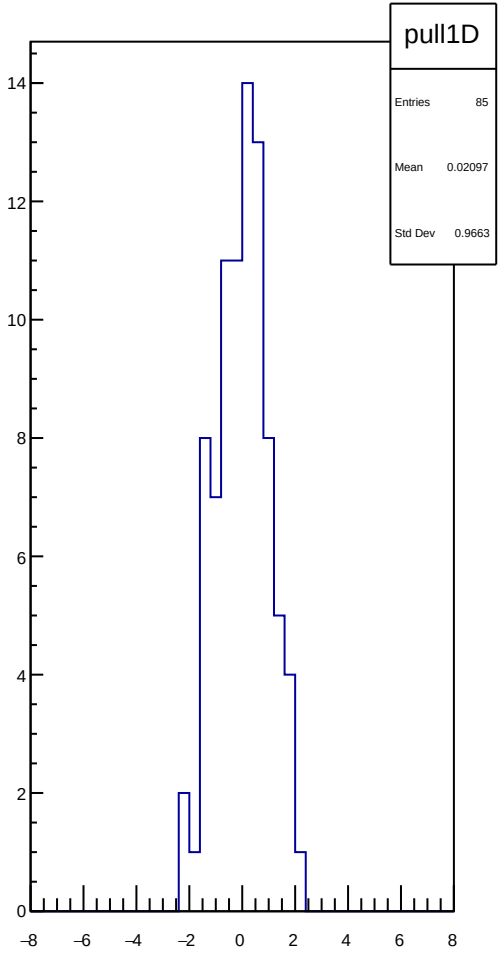

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 8210 / 84
p0 7192 ± 5.672
9000
8500
8000
7500
7000
6500
6000

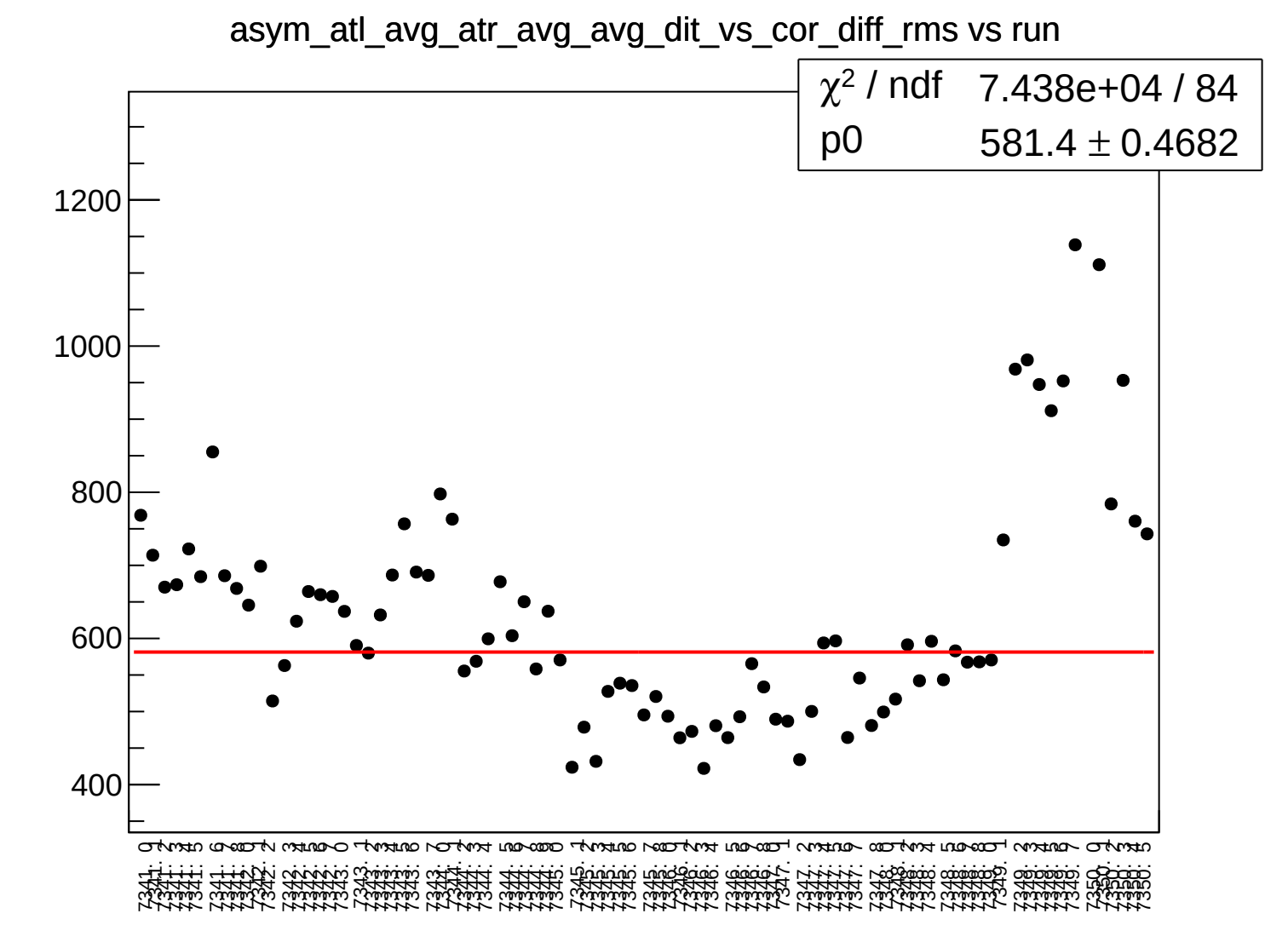

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.7 / 84
p0 4.834e−13 ± 2.475e−13
pull
Entries 85
Mean −222.2
Std Dev 0

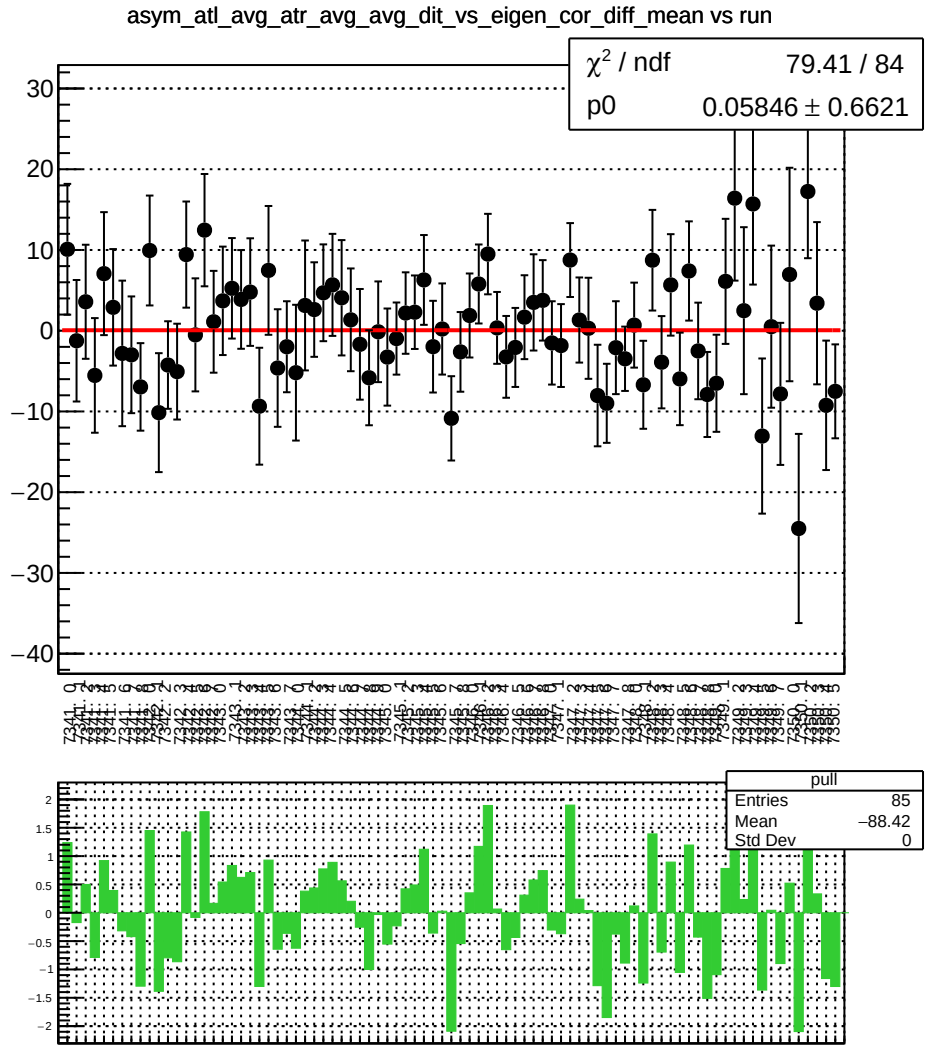

pull1D
Entries 85
Mean 0.01618
Std Dev 1.016

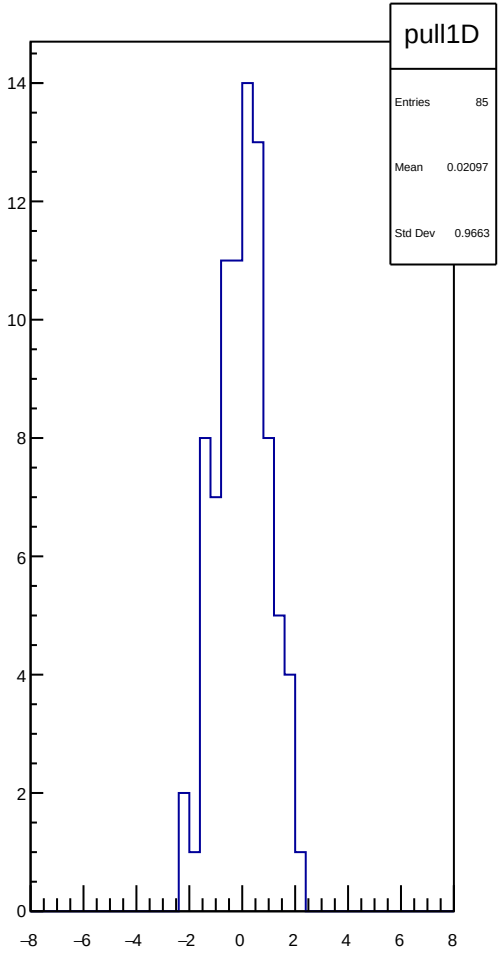

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.24e+06 / 84
p0 1.074e−10 ± 1.75e−13
1
0.8
0.6
0.4
0.2
0

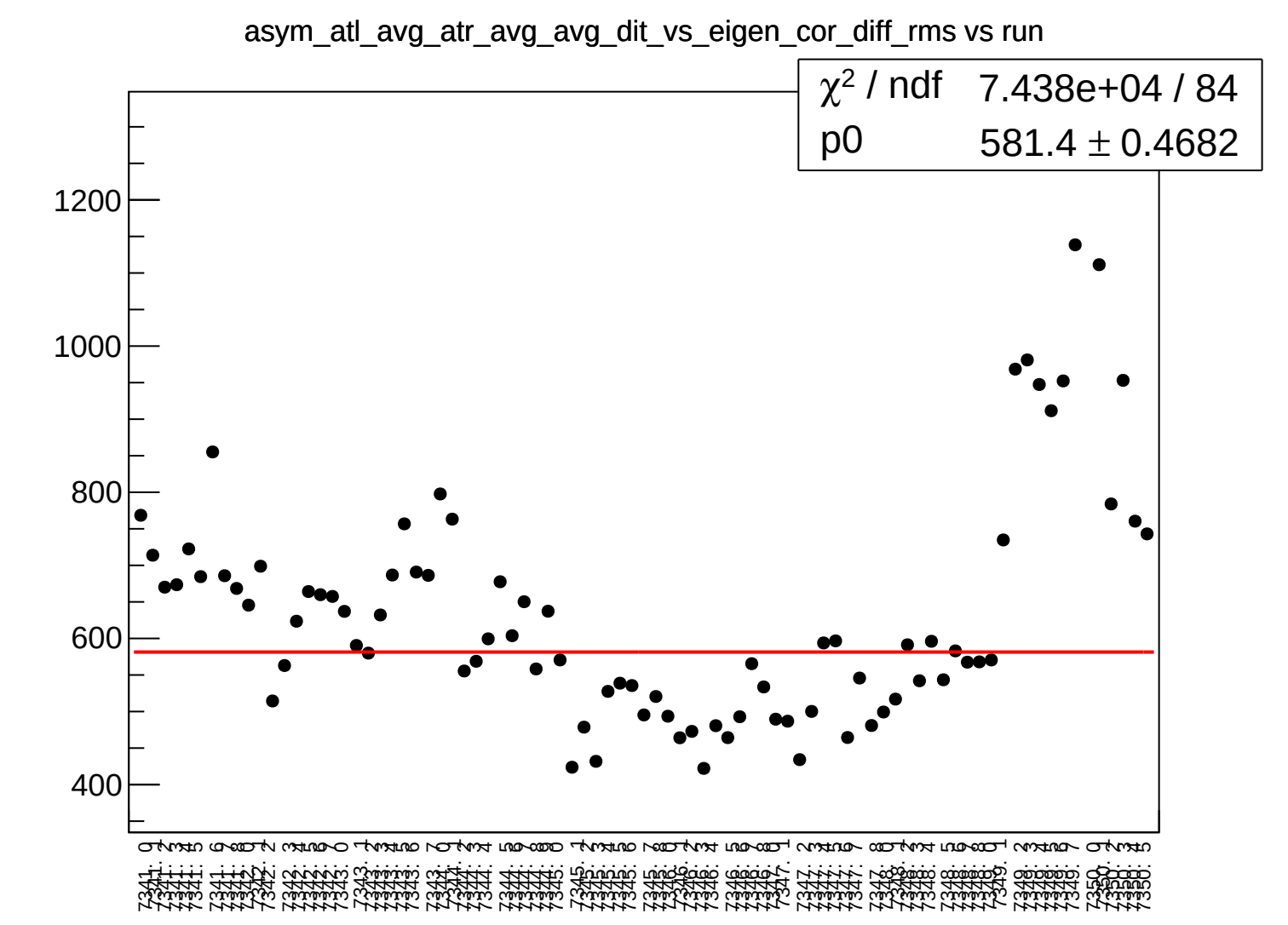

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.41 / 84
p0 0.05846 ± 0.6621
pull
Entries 85
Mean −88.42
Std Dev 0

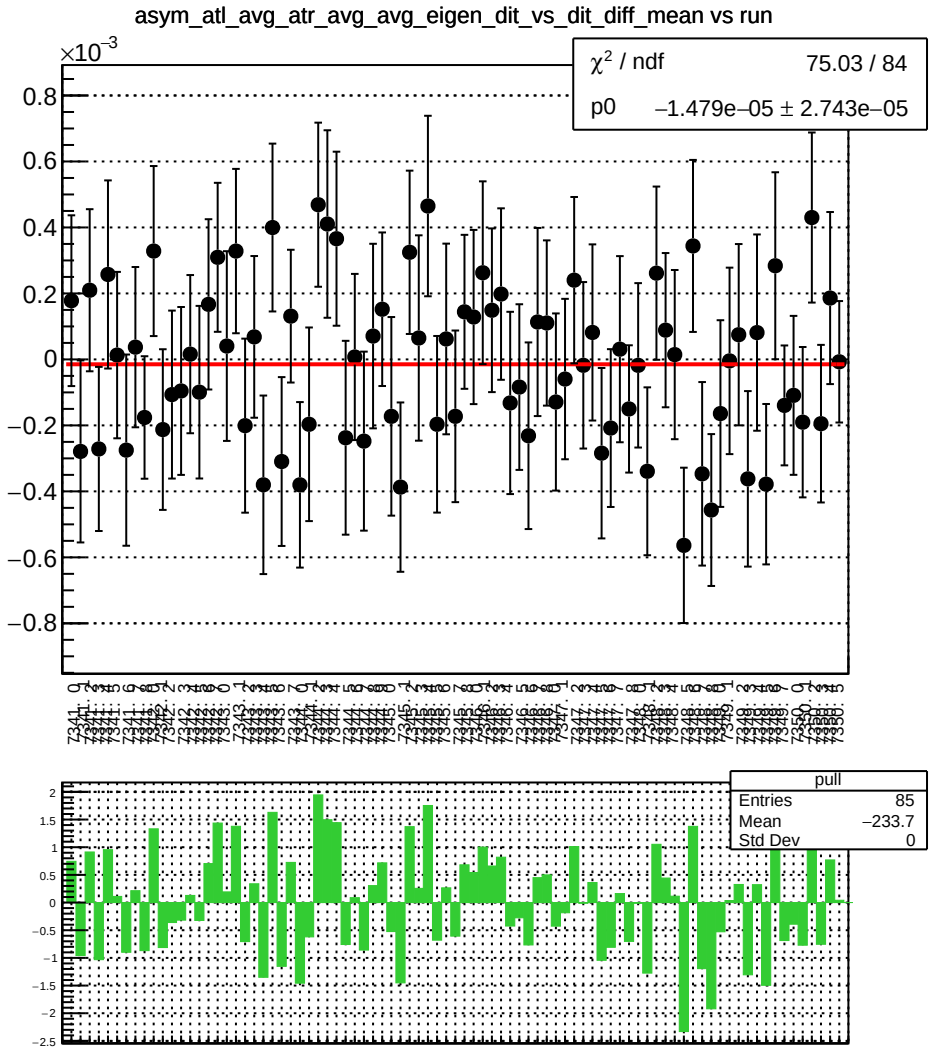

pull1D
Entries 85
Mean 0.02097
Std Dev 0.9663

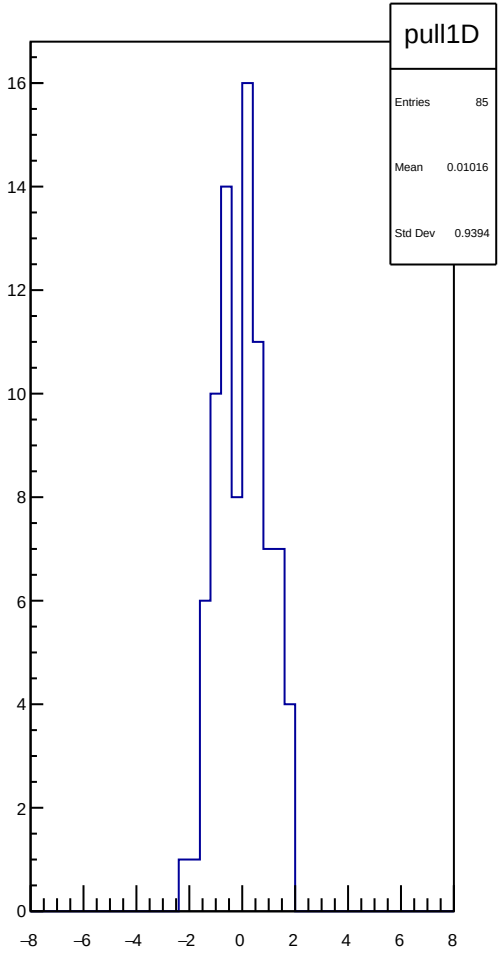

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.438e+04 / 84
p0 581.4 ± 0.4682
1200
1000
800
600
400

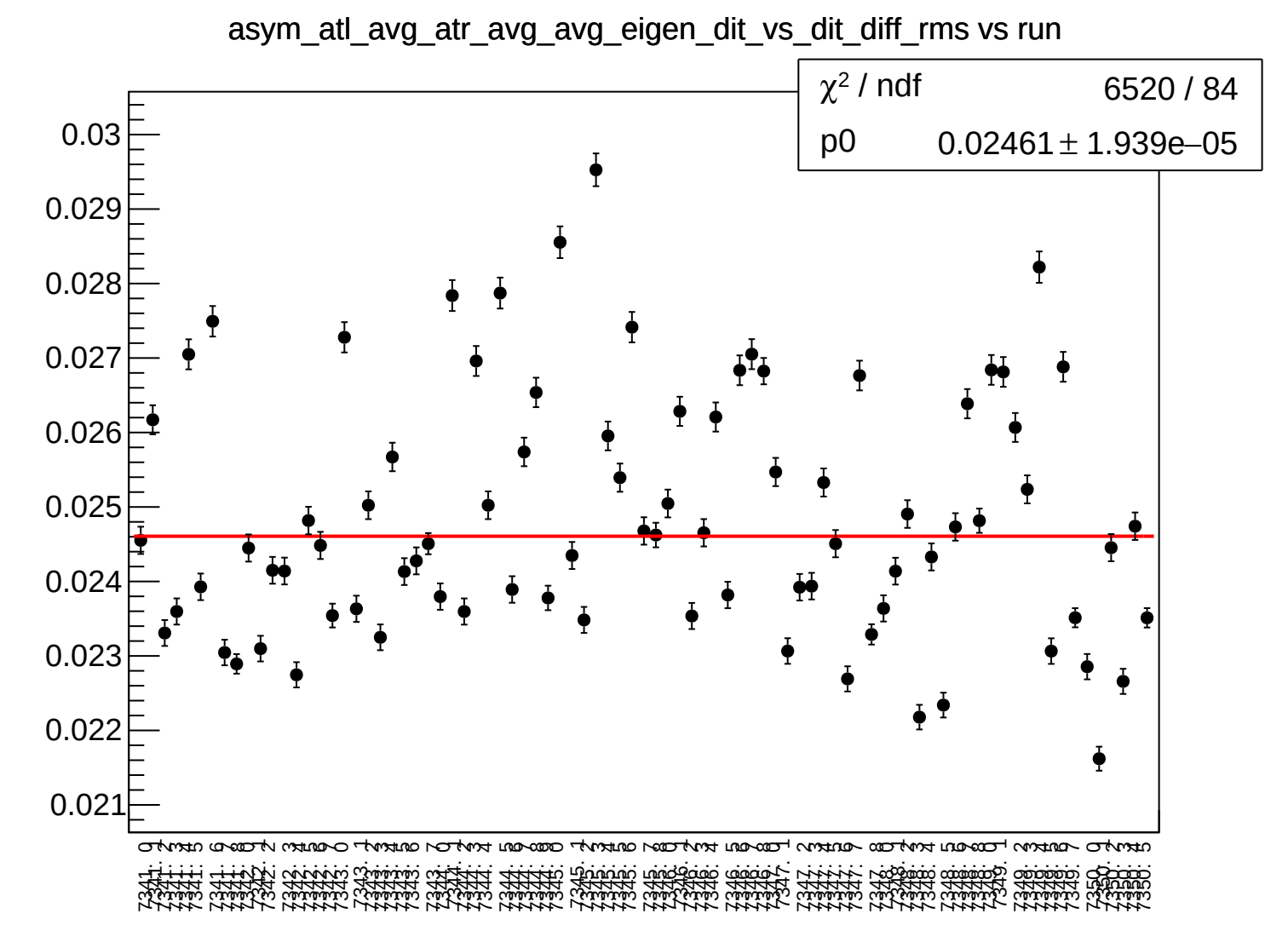

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.41 / 84
p0 0.05846 ± 0.6621
pull
Entries 85
Mean −88.42
Std Dev 0

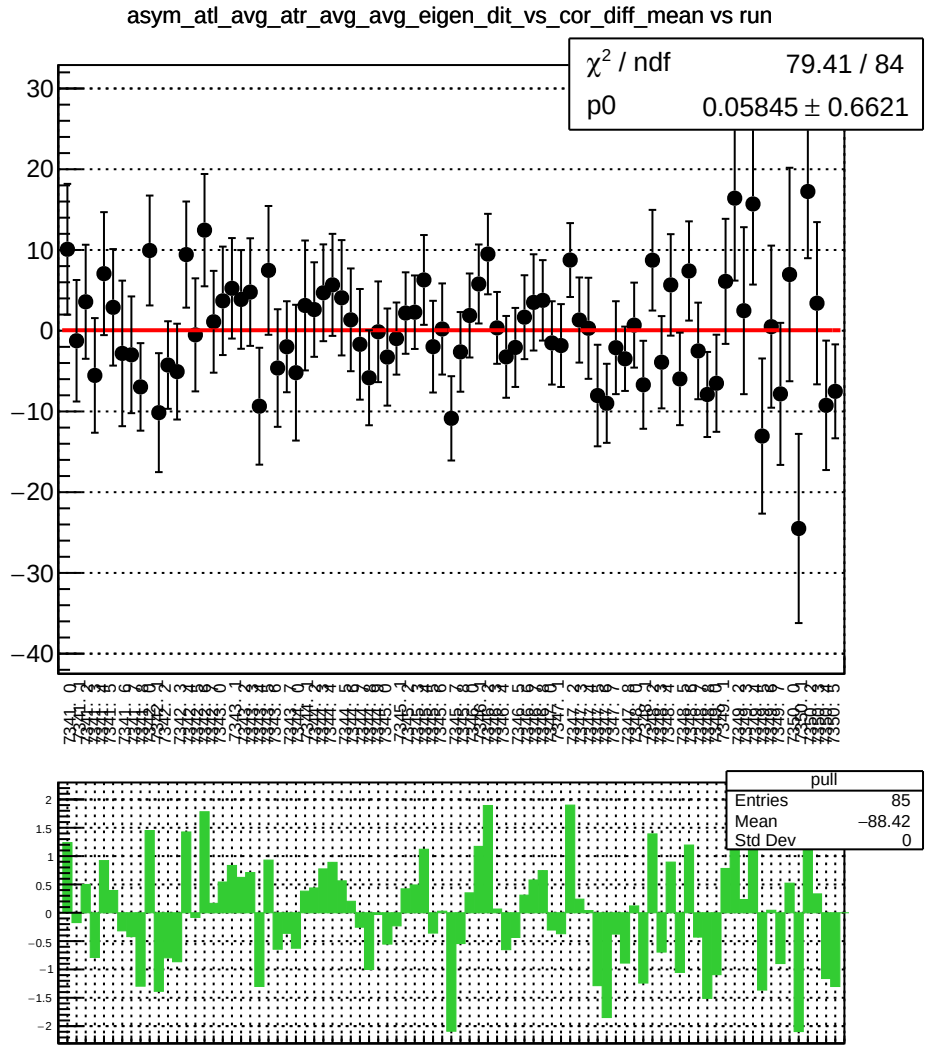

pull1D
Entries 85
Mean 0.02097
Std Dev 0.9663

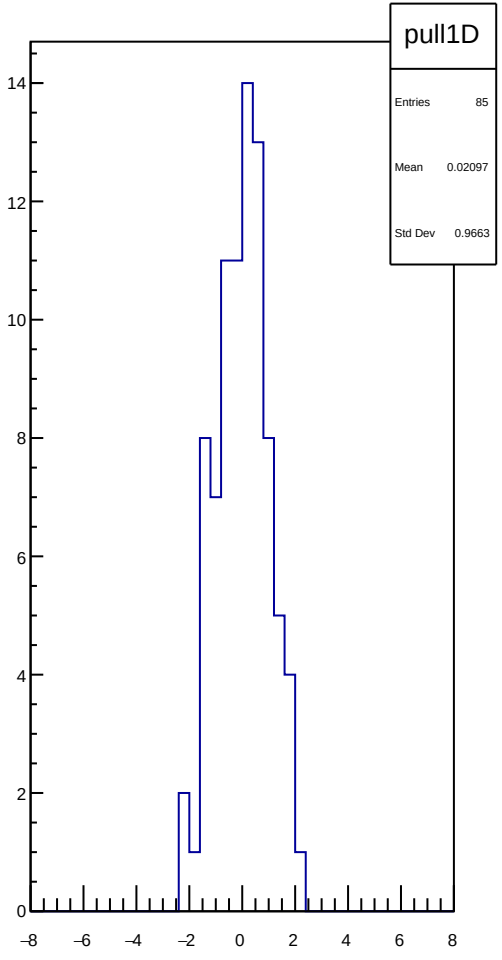

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.438e+04 / 84
p0 581.4 ± 0.4682
1200
1000
800
600
400

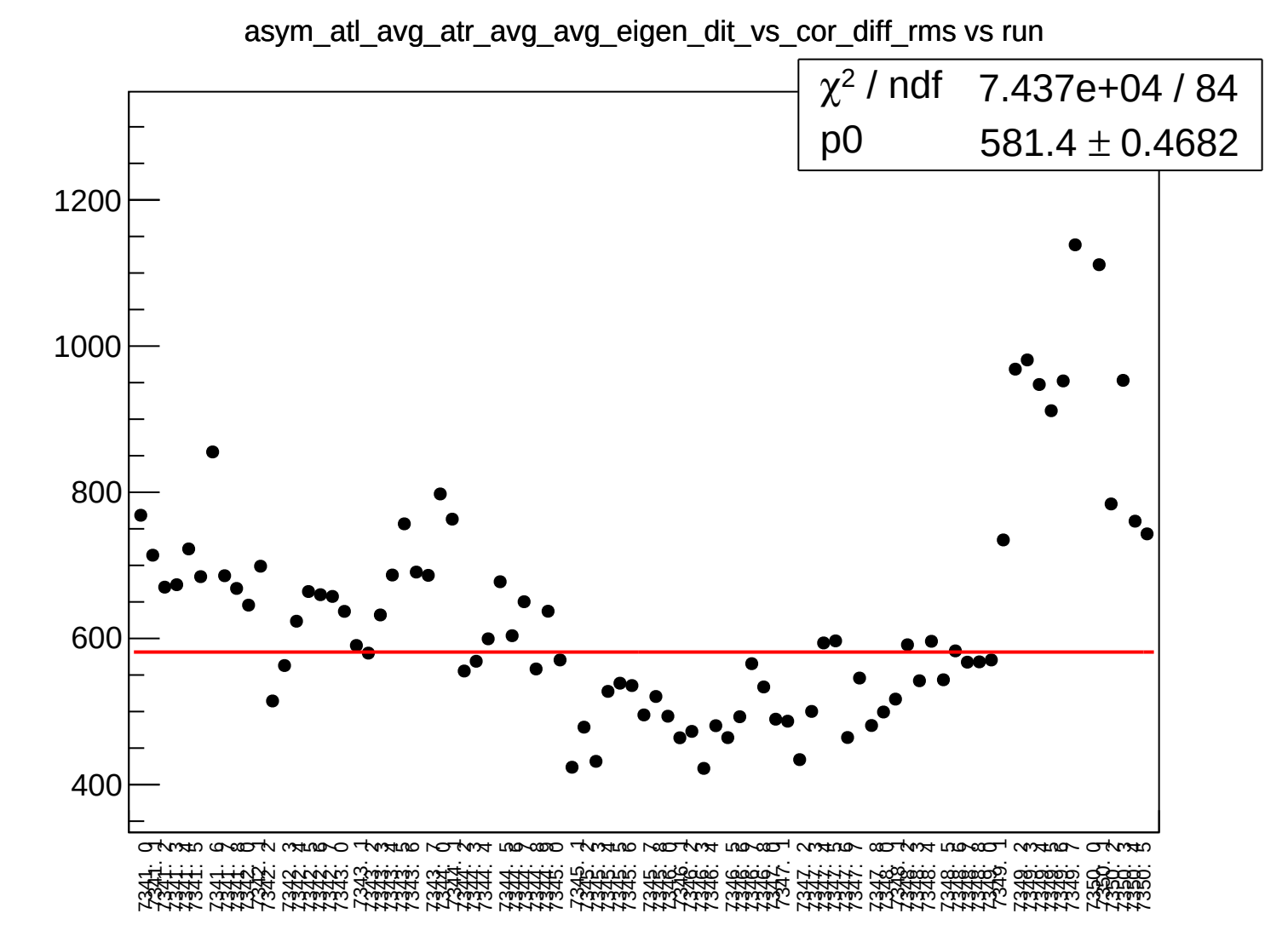

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.03 / 84
p0 −1.479e−05 ± 2.743e−05
pull
Entries 85
Mean −233.7
Std Dev 0

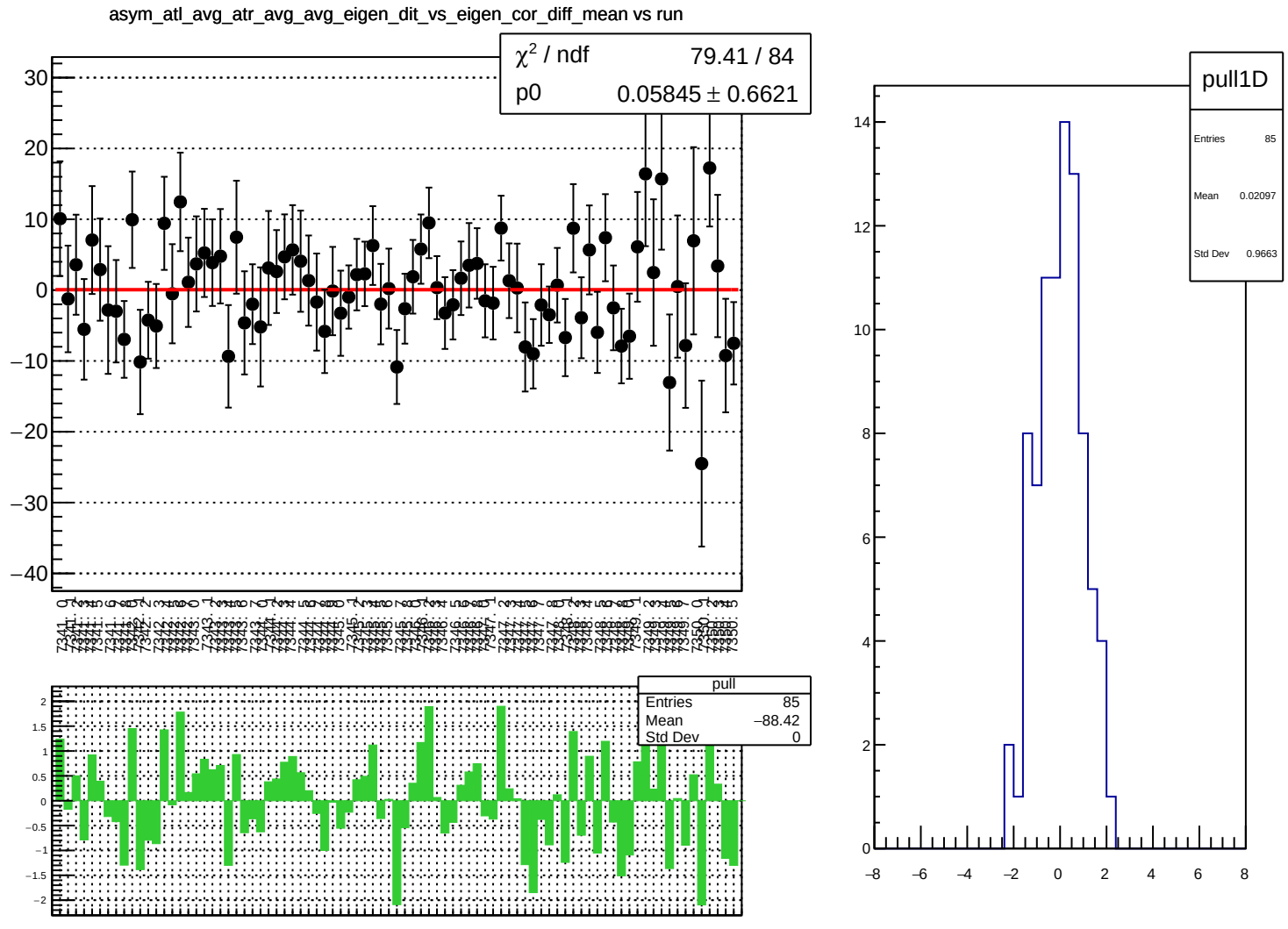

pull1D
Entries 85
Mean 0.01016
Std Dev 0.9394

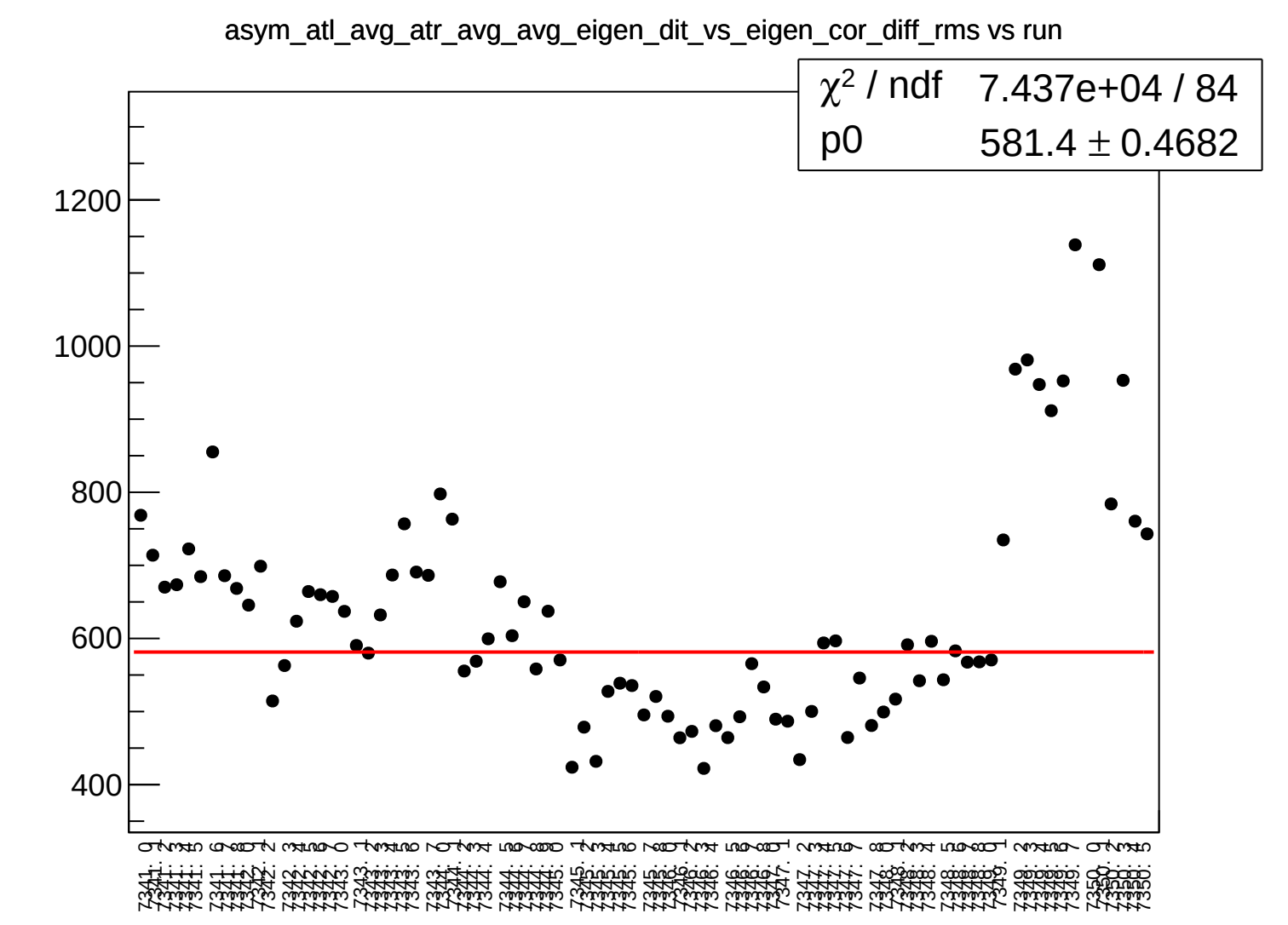

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6520 / 84
p0 0.02461 ± 1.939e−05
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021

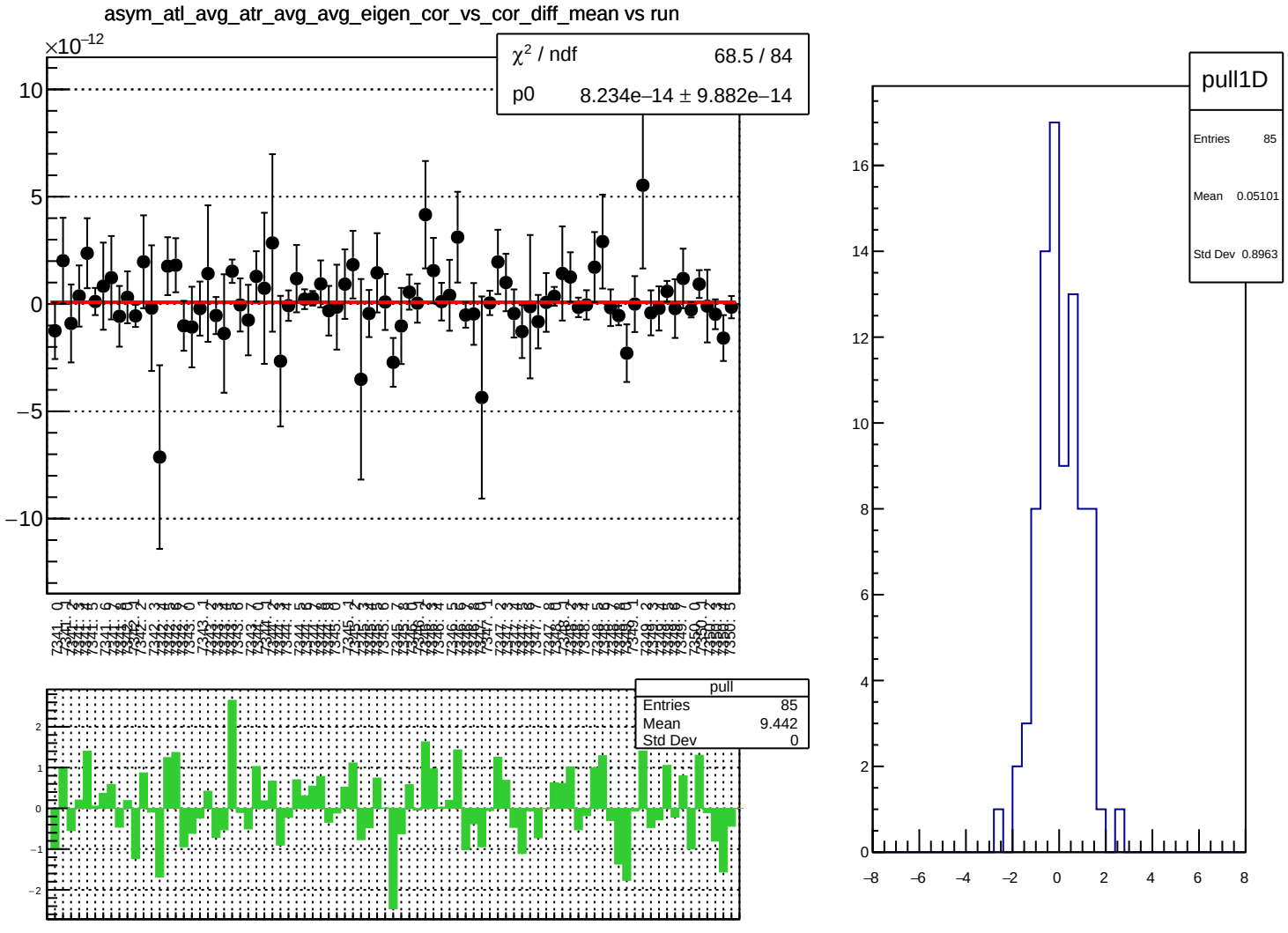

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.41 / 84
p0 0.05845 ± 0.6621
pull
Entries 85
Mean −88.42
Std Dev 0

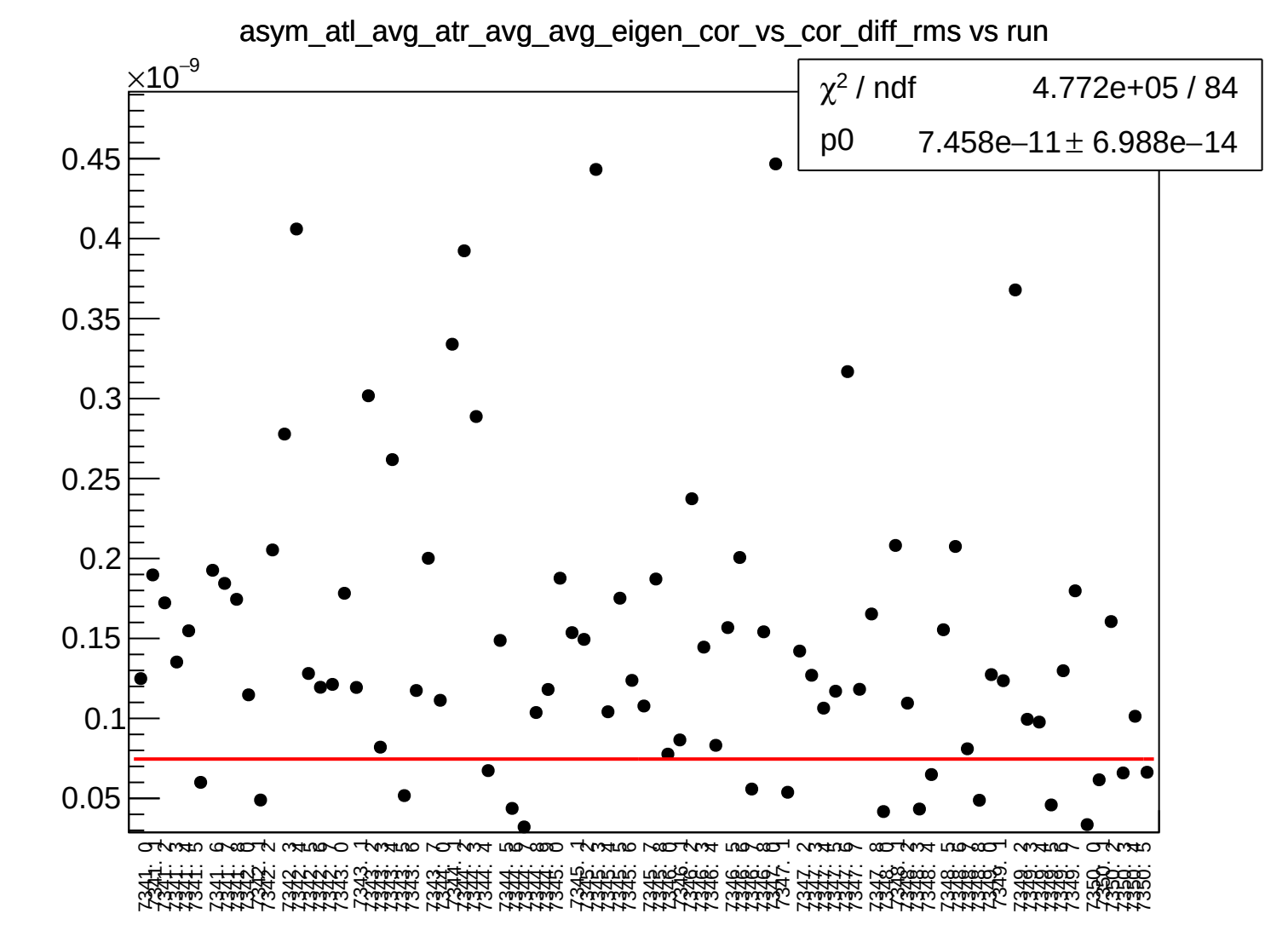

pull1D
Entries 85
Mean 0.02097
Std Dev 0.9663

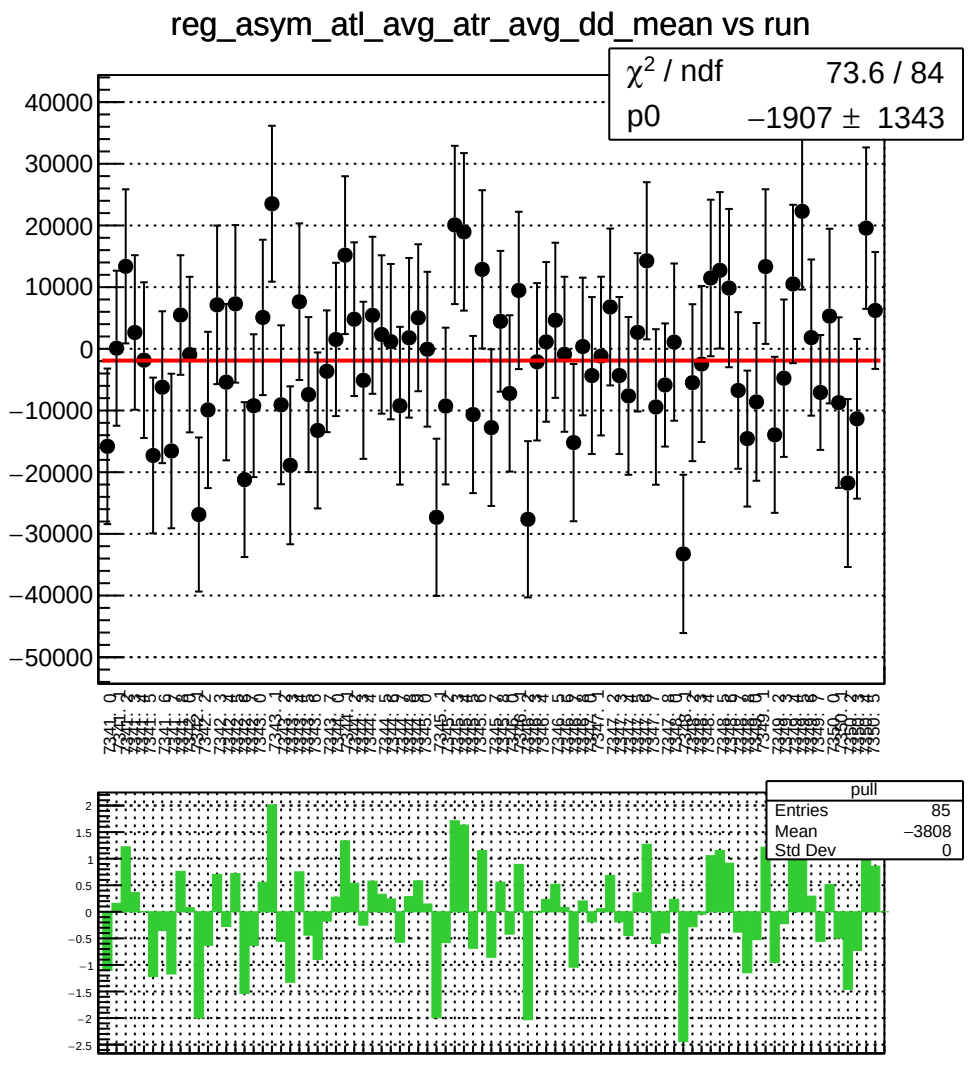

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.437e+04 / 84
p0 581.4 ± 0.4682
1200
1000
800
600
400

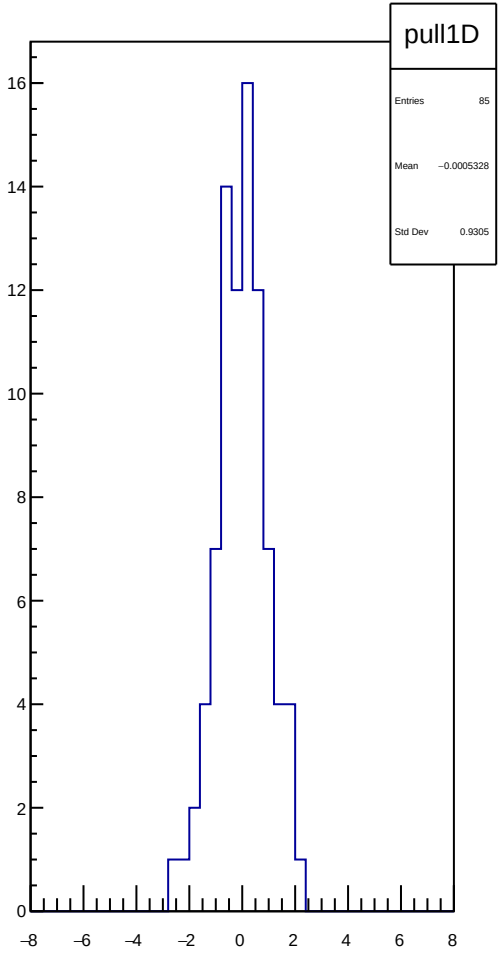

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.41 / 84
p0 0.05845 ± 0.6621
pull
Entries 85
Mean −88.42
Std Dev 0
pull1D
Entries 85
Mean 0.02097
Std Dev 0.9663

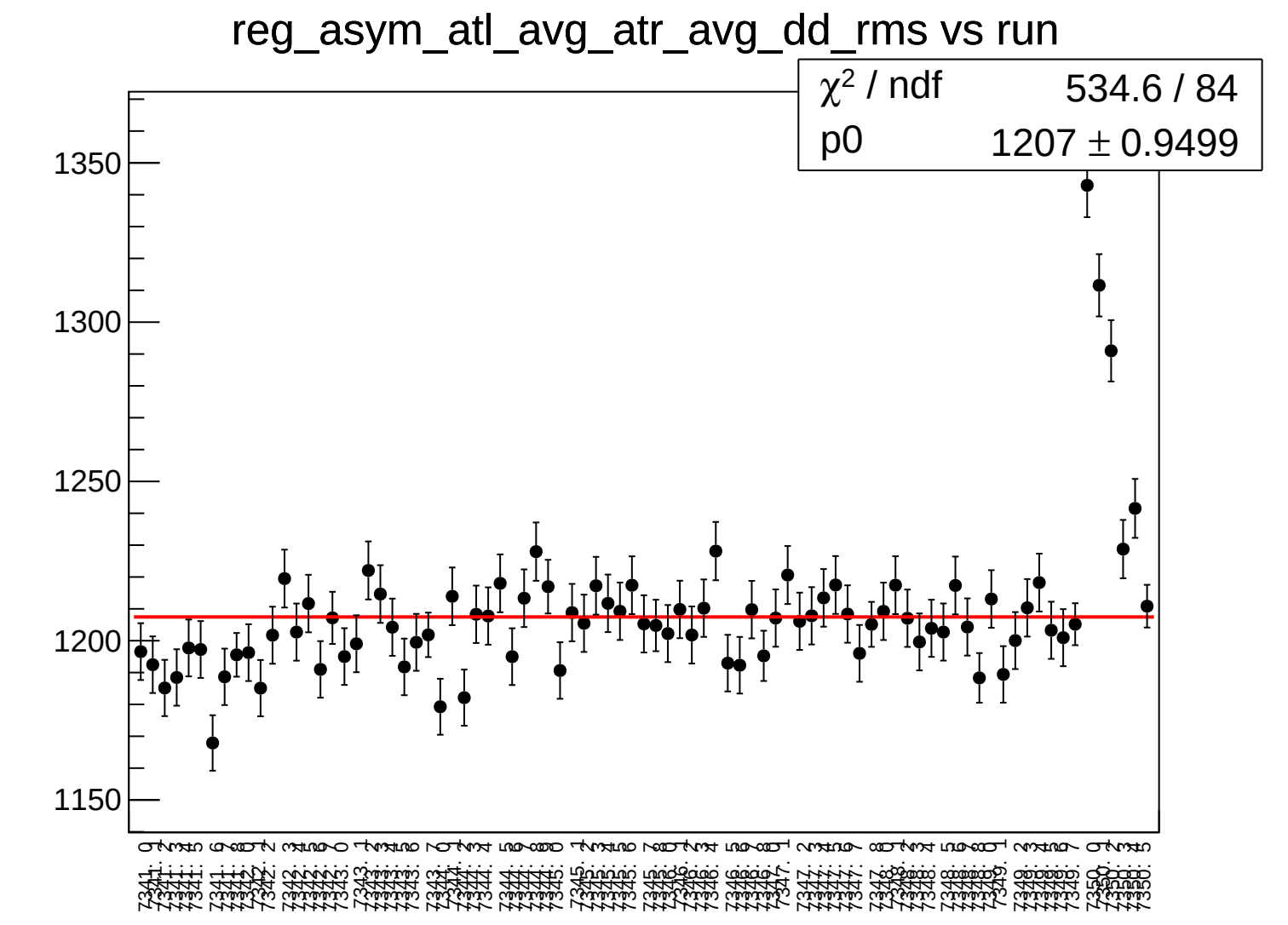

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.437e+04 / 84
p0 581.4 ± 0.4682
1200
1000
800
600
400

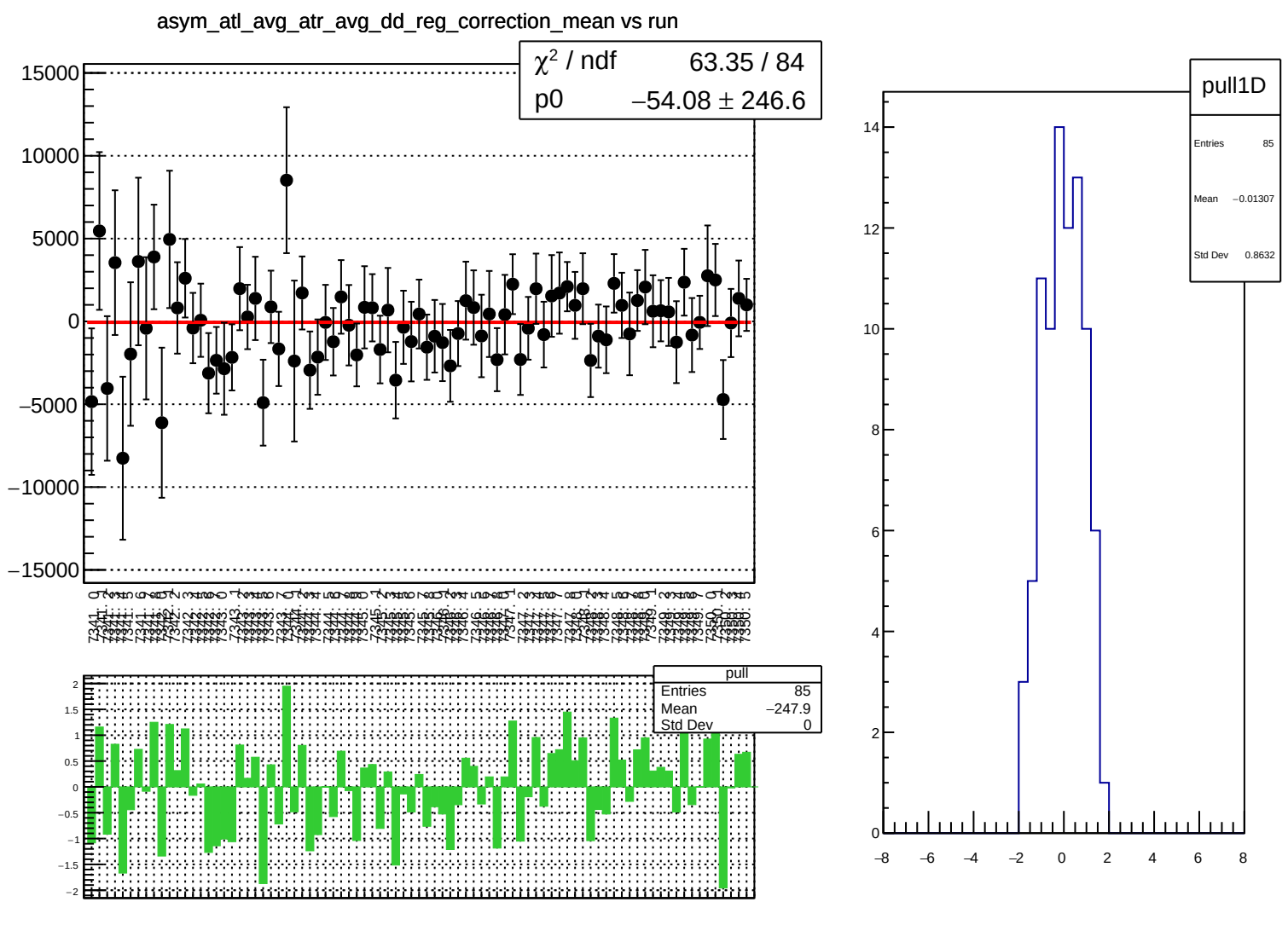

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.5 / 84
p0 8.234e−14 ± 9.882e−14
pull
Entries 85
Mean 9.442
Std Dev 0
pull1D
Entries 85
Mean 0.05101
Std Dev 0.8963

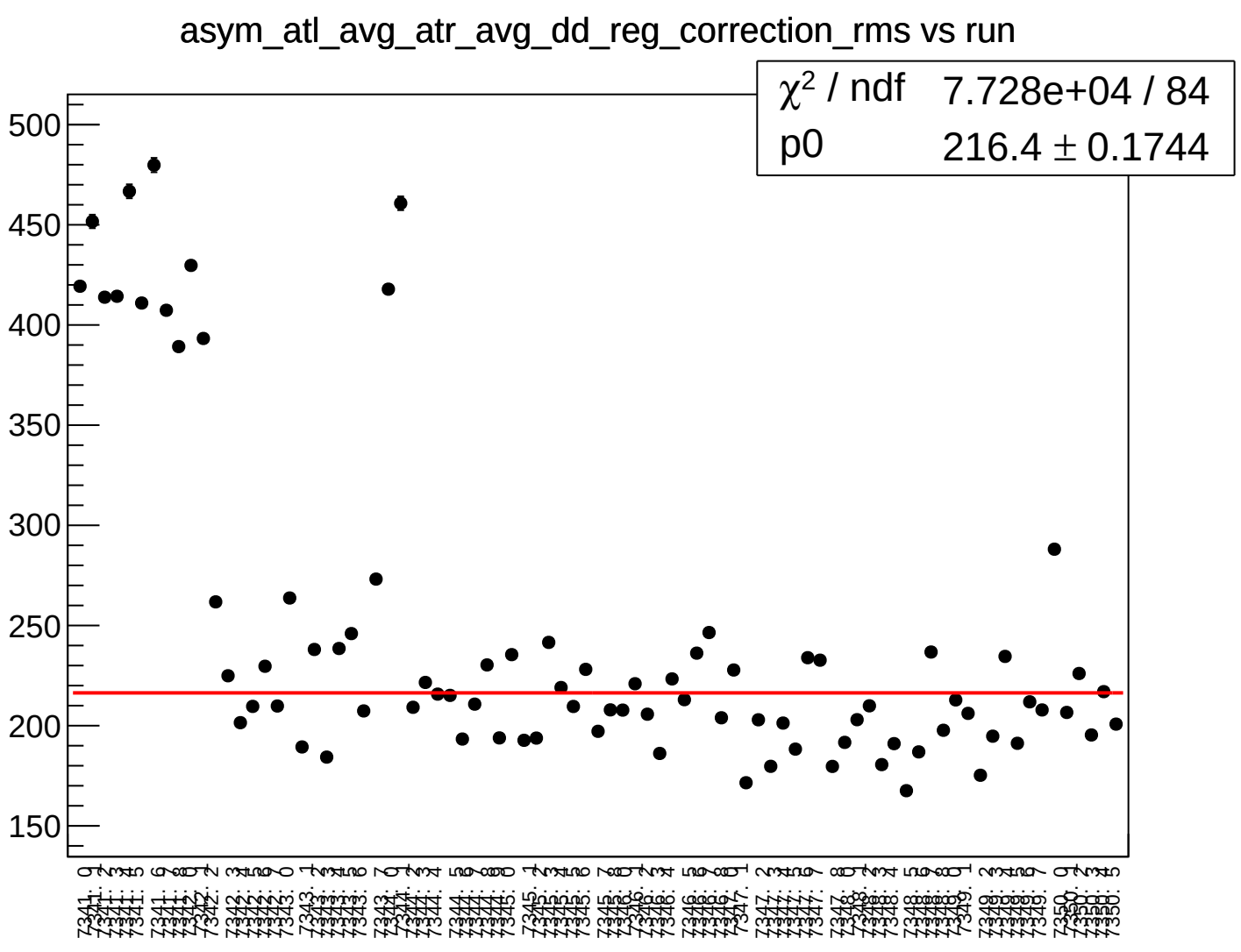

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.772e+05 / 84
p0 7.458e−11 ± 6.988e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

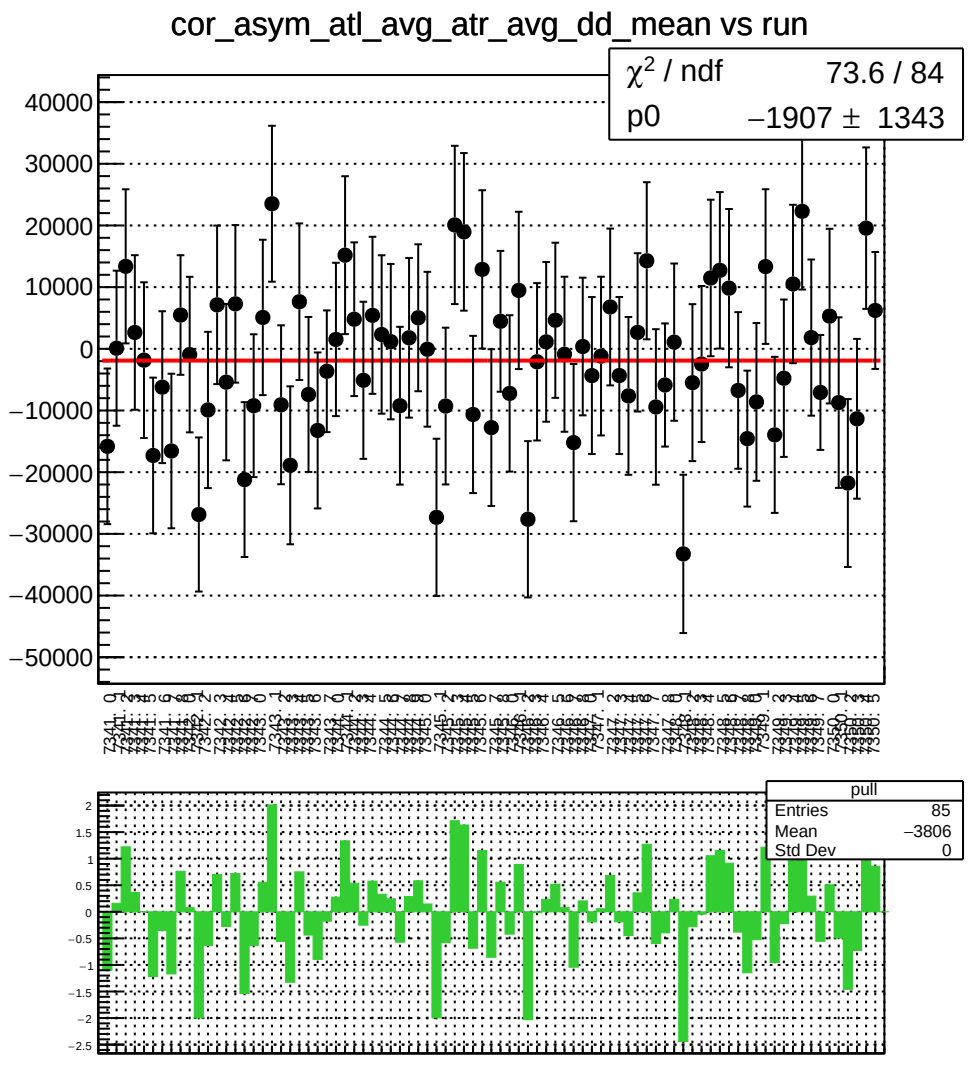

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 73.6 / 84
p0 −1907 ± 1343
pull
Entries 85
Mean −3808
Std Dev 0

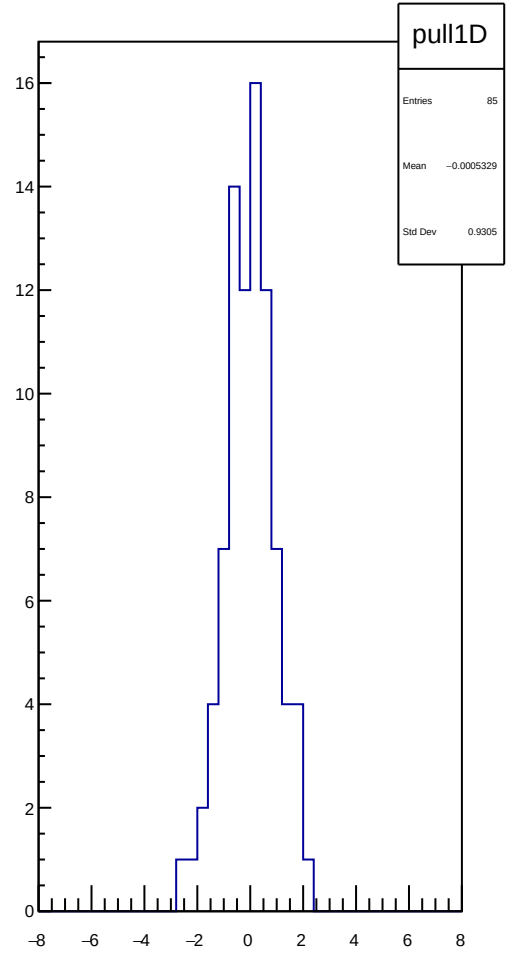

pull1D
Entries 85
Mean −0.0005328
Std Dev 0.9305

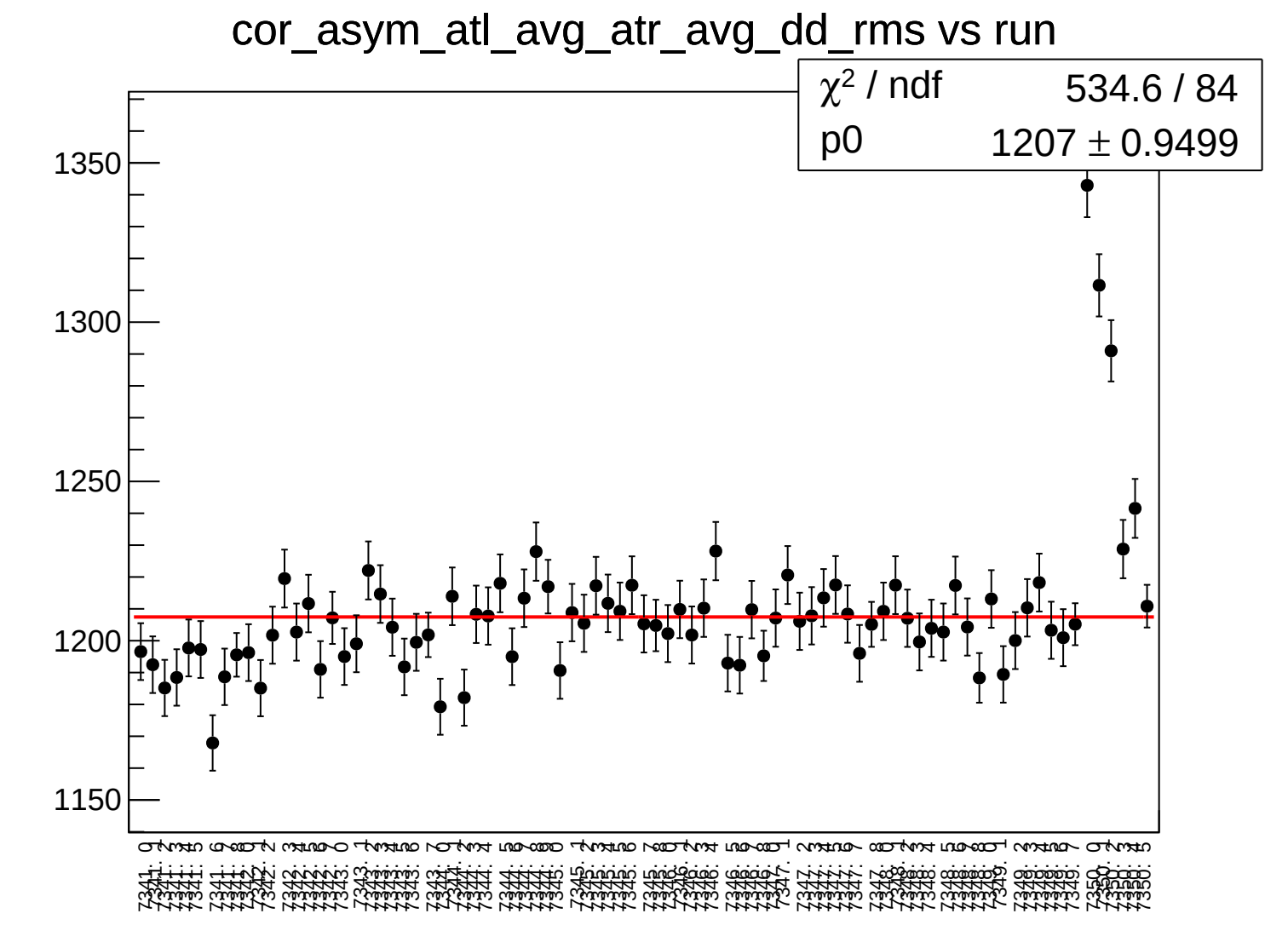

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 534.6 / 84
p0 1207 ± 0.9499
1350
1300
1250
1200
1150

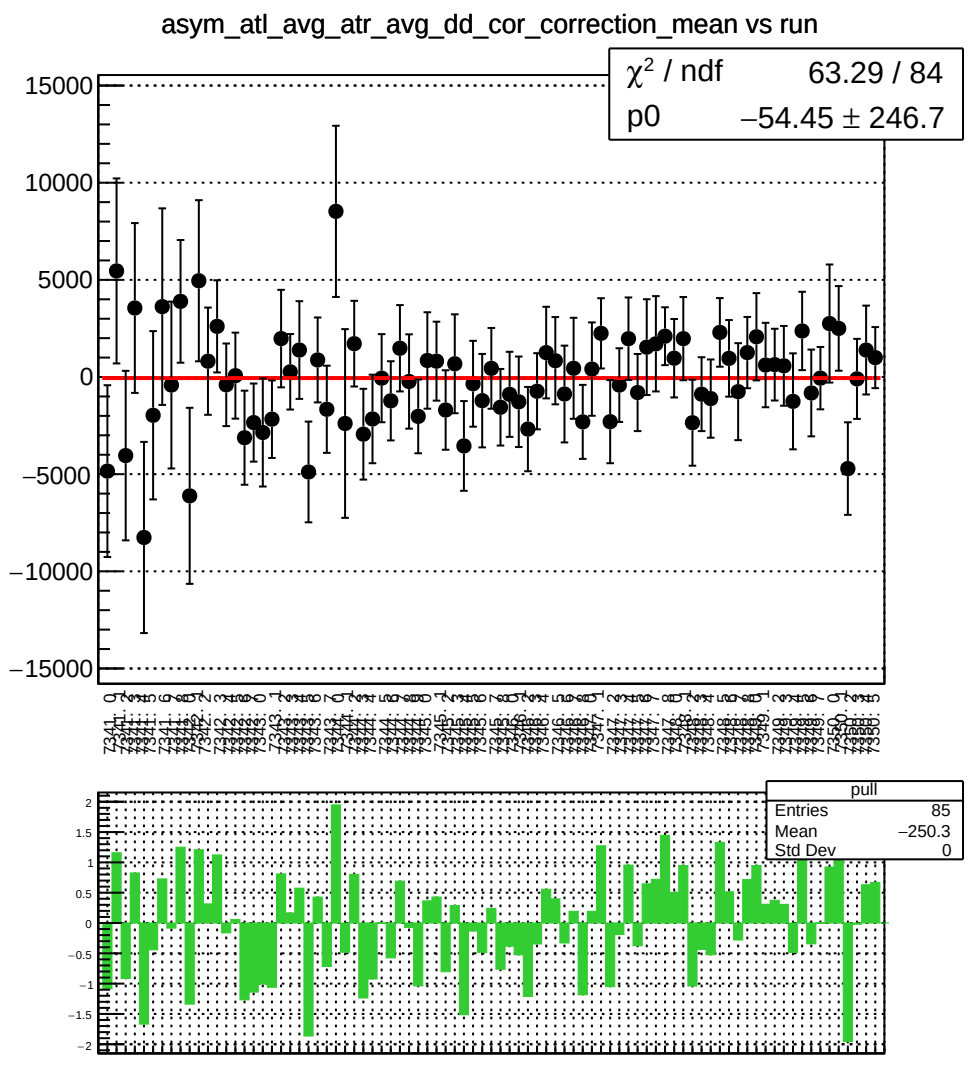

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 63.35 / 84
p0 −54.08 ± 246.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −247.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.01307
Std Dev 0.8632
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

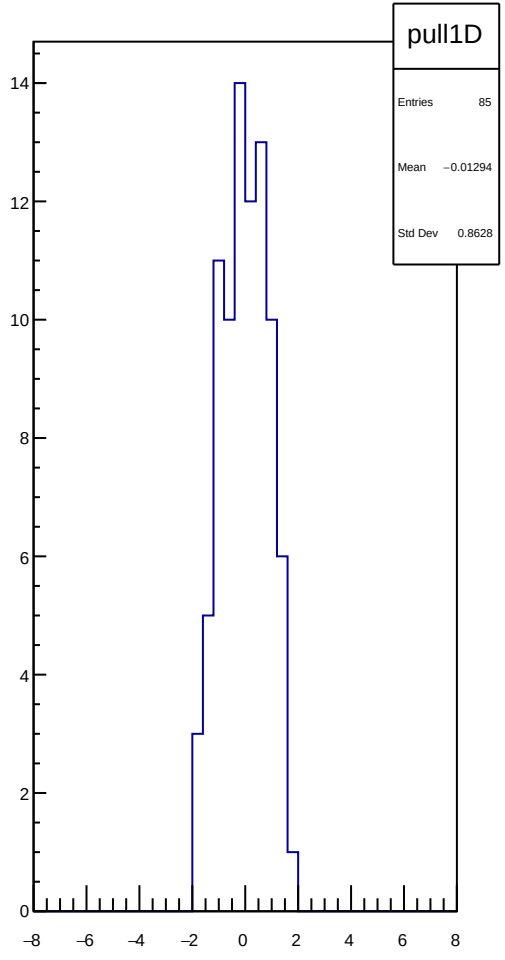

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 7.728e+04 / 84
p0 216.4 ± 0.1744
500
450
400
350
300
250
200
150

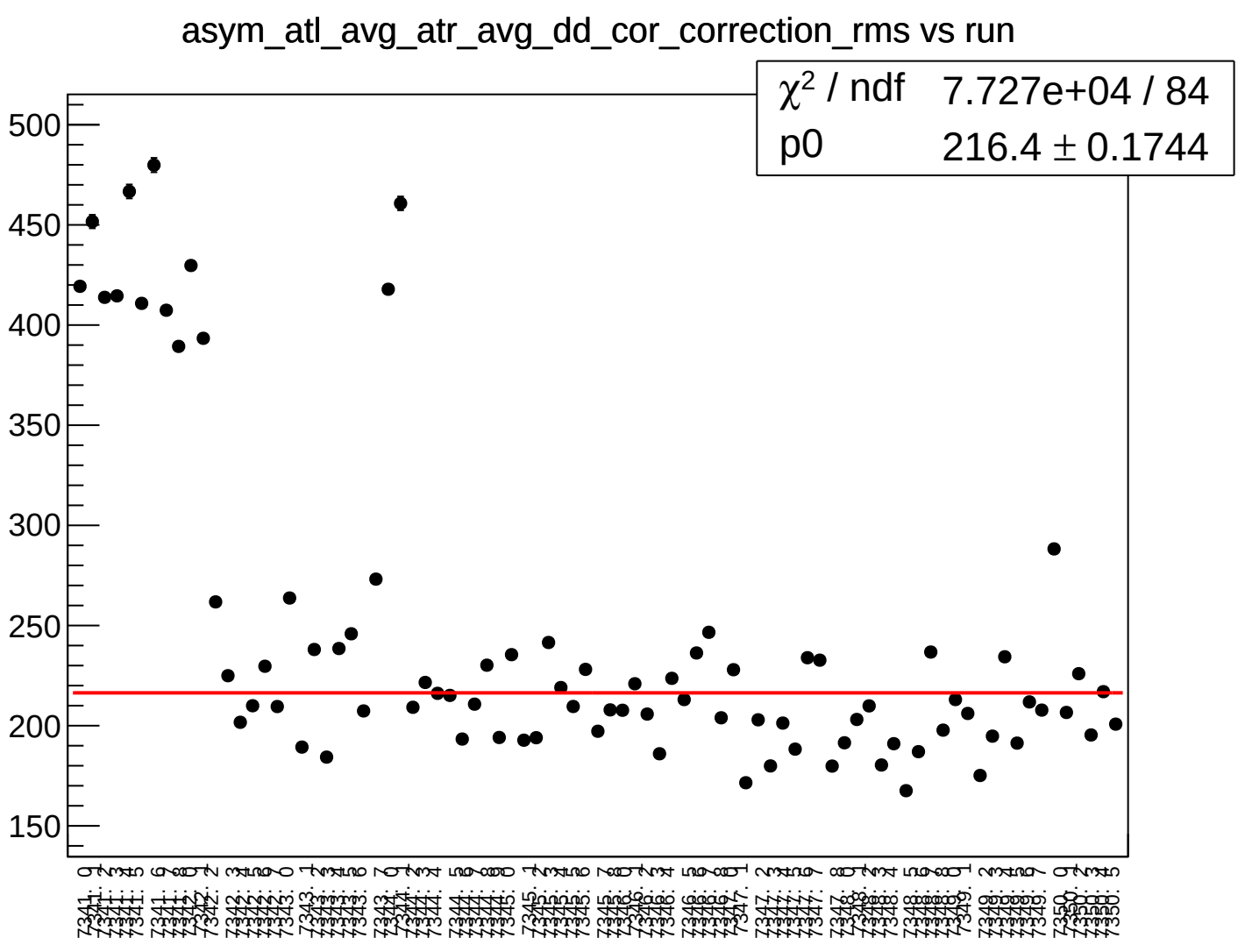

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 73.6 / 84
p0 −1907 ± 1343
pull
Entries 85
Mean −3806
Std Dev 0

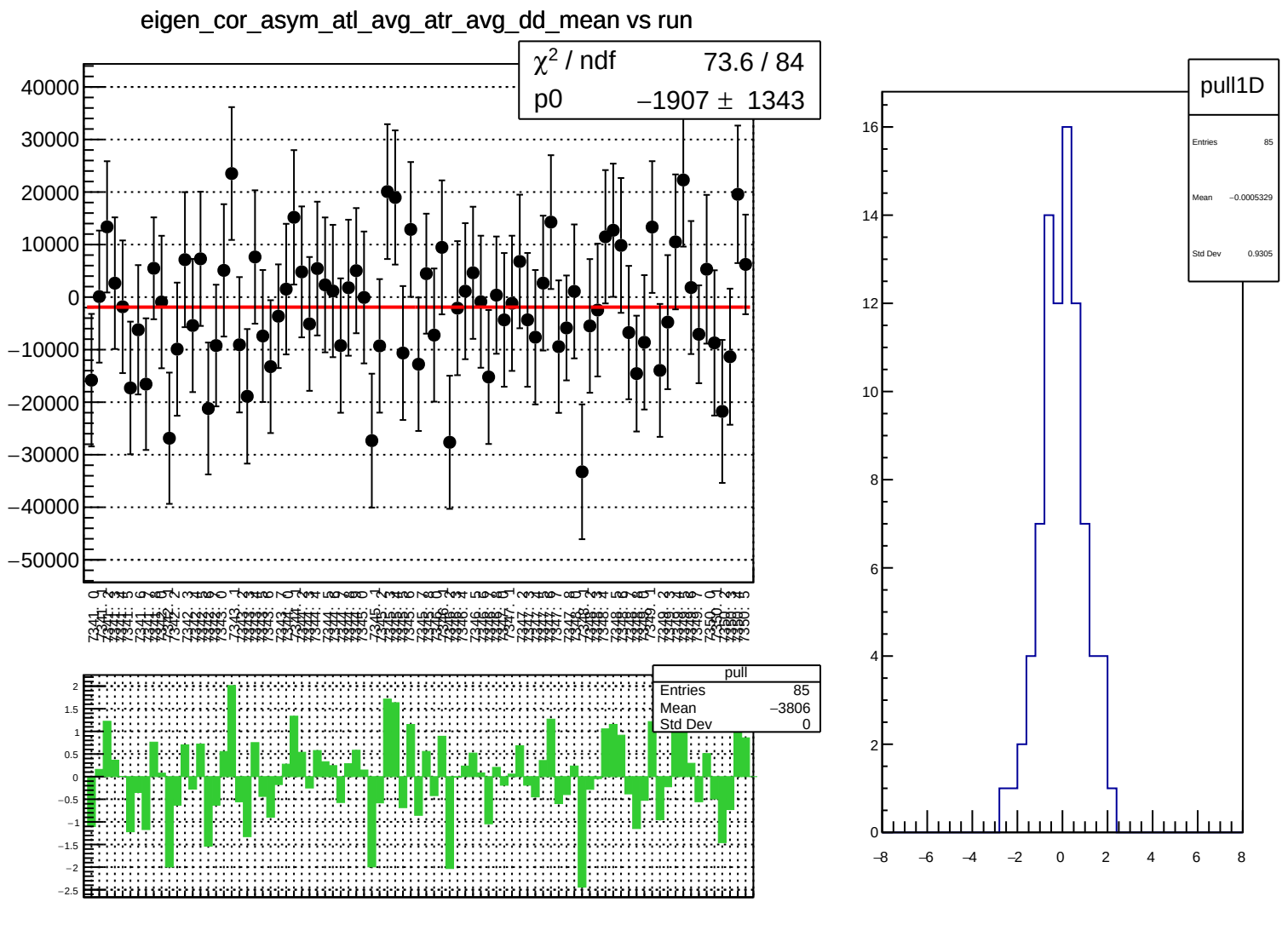

pull1D
Entries 85
Mean −0.0005329
Std Dev 0.9305

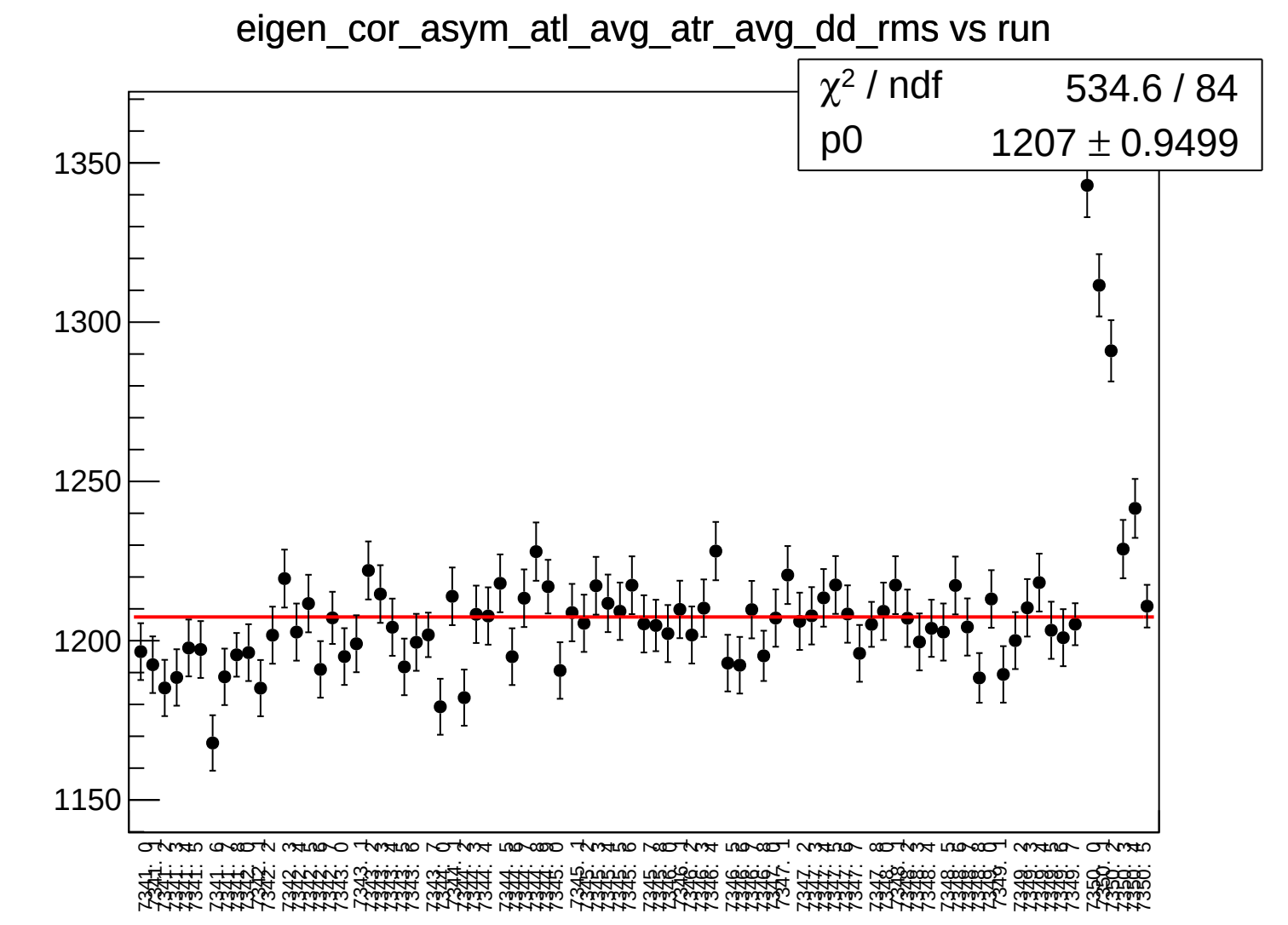

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 534.6 / 84
p0 1207 ± 0.9499
1350
1300
1250
1200
1150

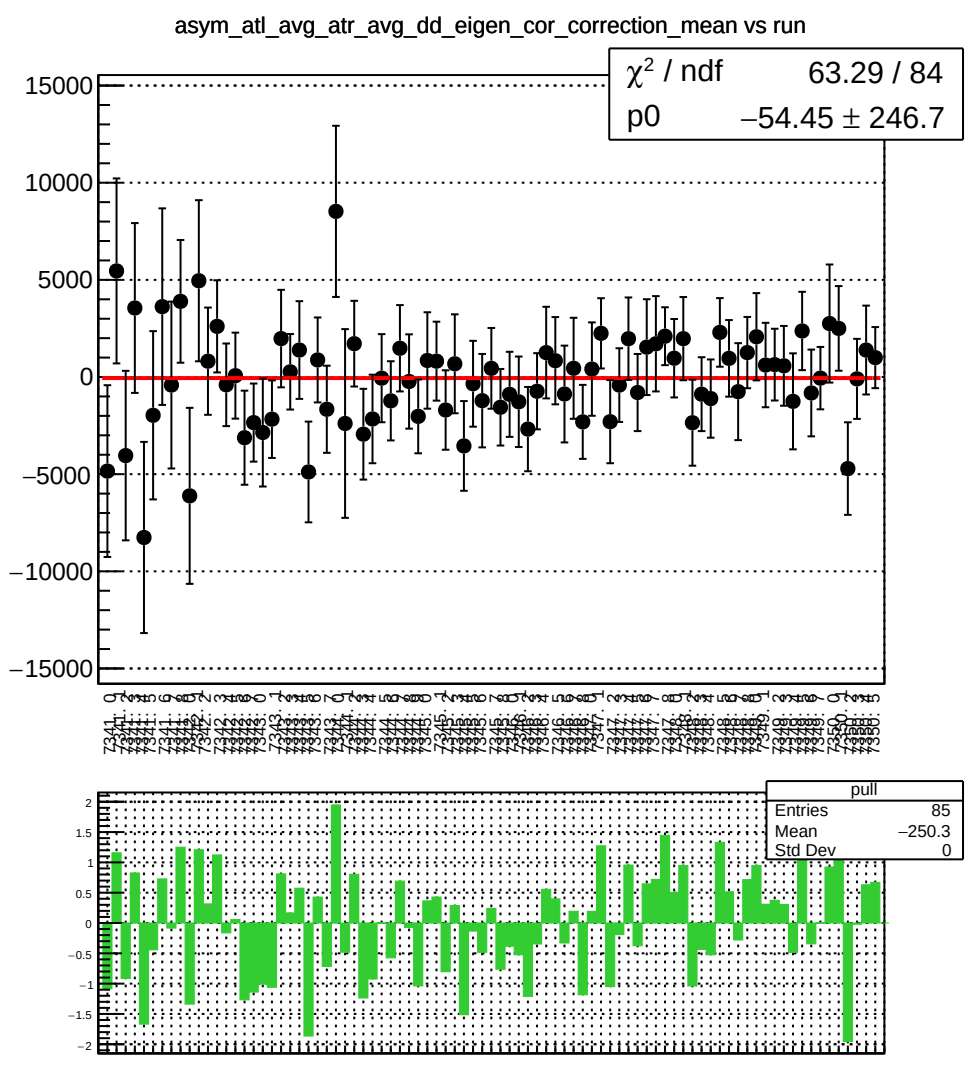

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 63.29 / 84
p0 −54.45 ± 246.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −250.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

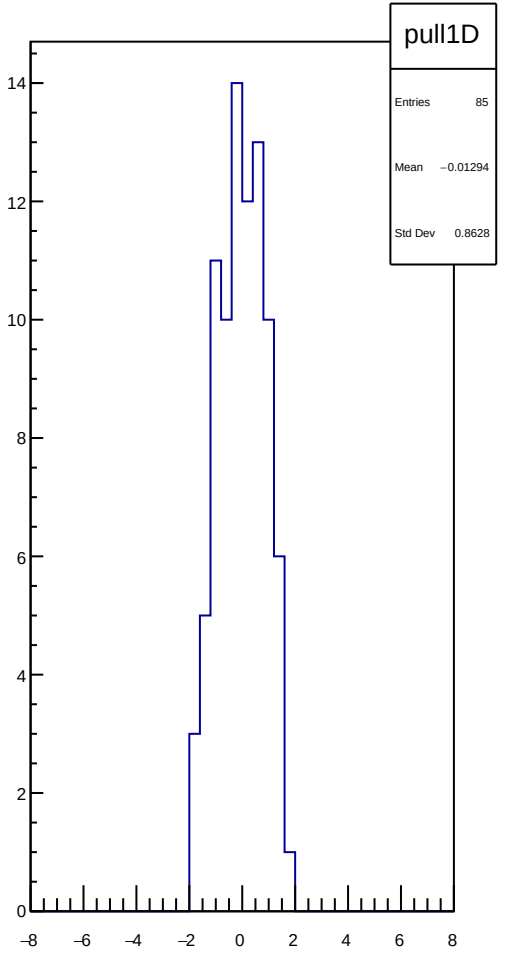

pull1D
Entries 85
Mean −0.01294
Std Dev 0.8628
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

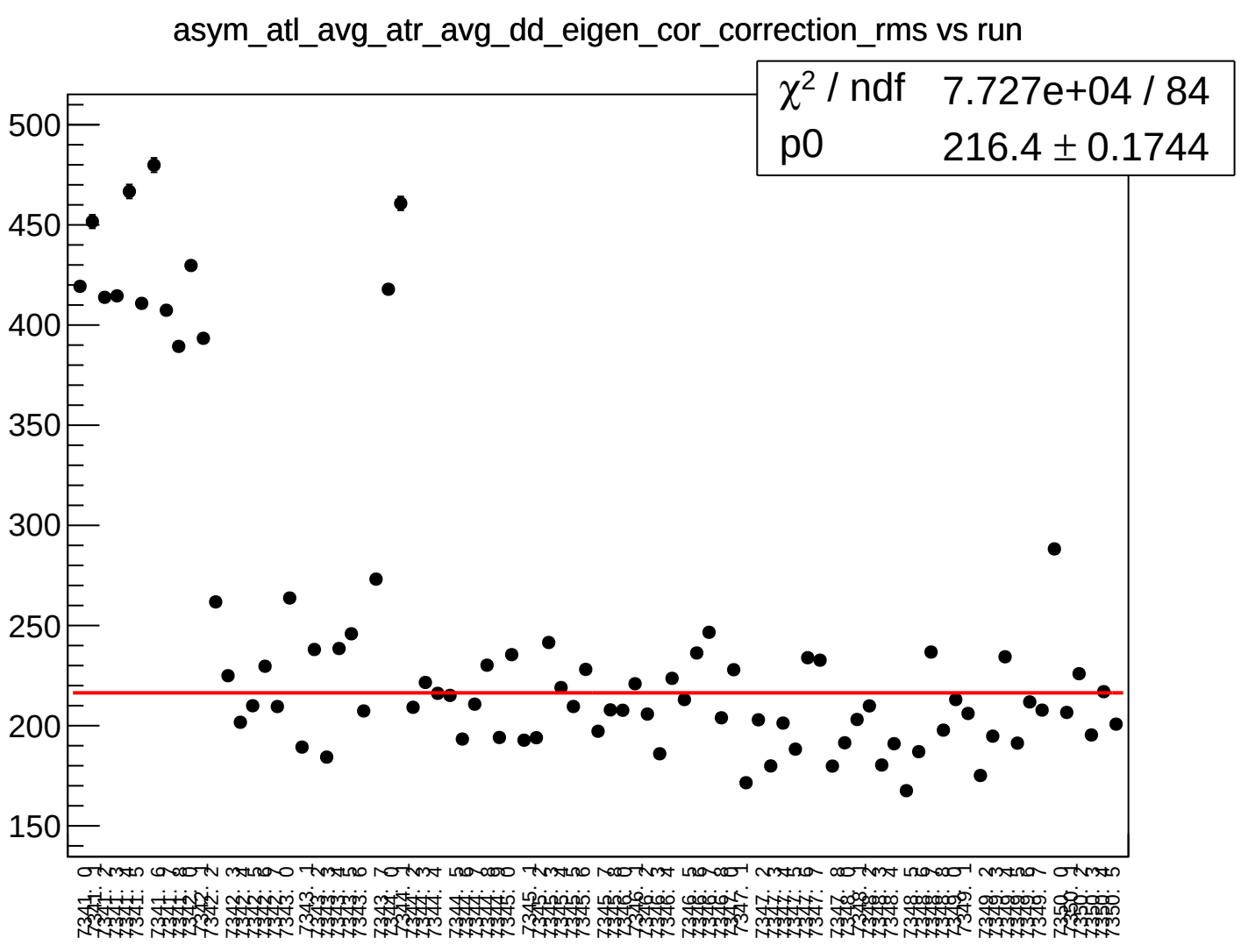

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 7.727e+04 / 84
p0 216.4 ± 0.1744
500
450
400
350
300
250
200
150

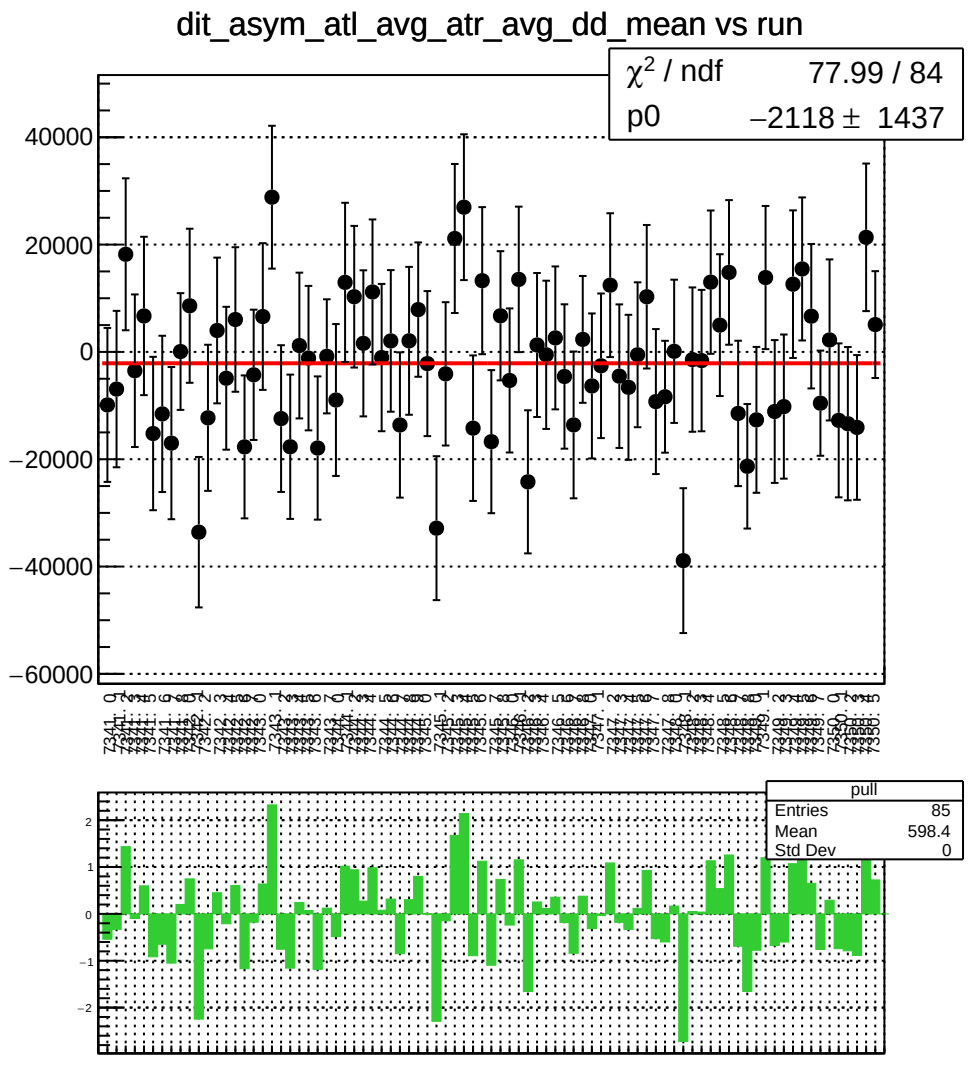

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 73.6 / 84
p0 −1907 ± 1343
pull
Entries 85
Mean −3806
Std Dev 0
pull1D
Entries 85
Mean −0.0005329
Std Dev 0.9305

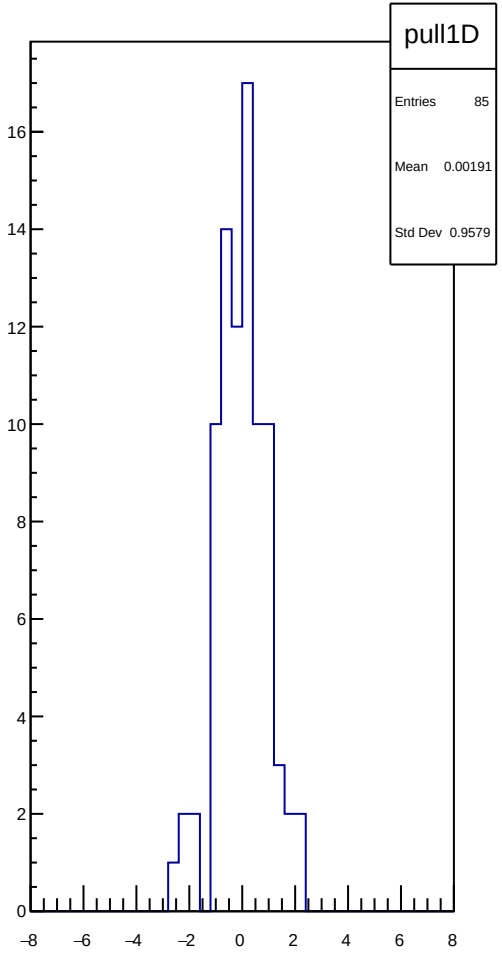

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 534.6 / 84
p0 1207 ± 0.9499
1350
1300
1250
1200
1150

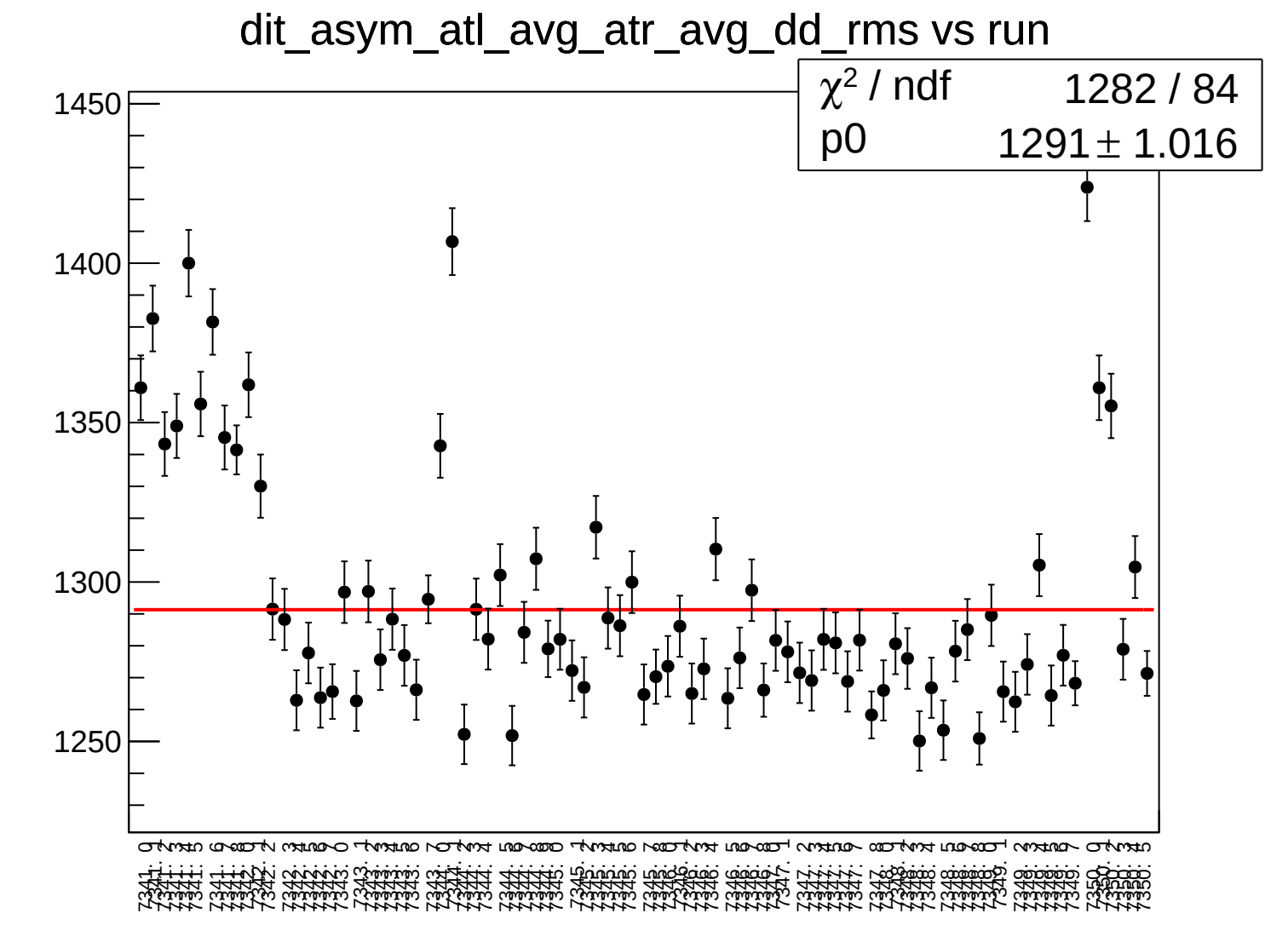

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 63.29 / 84
p0 −54.45 ± 246.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −250.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

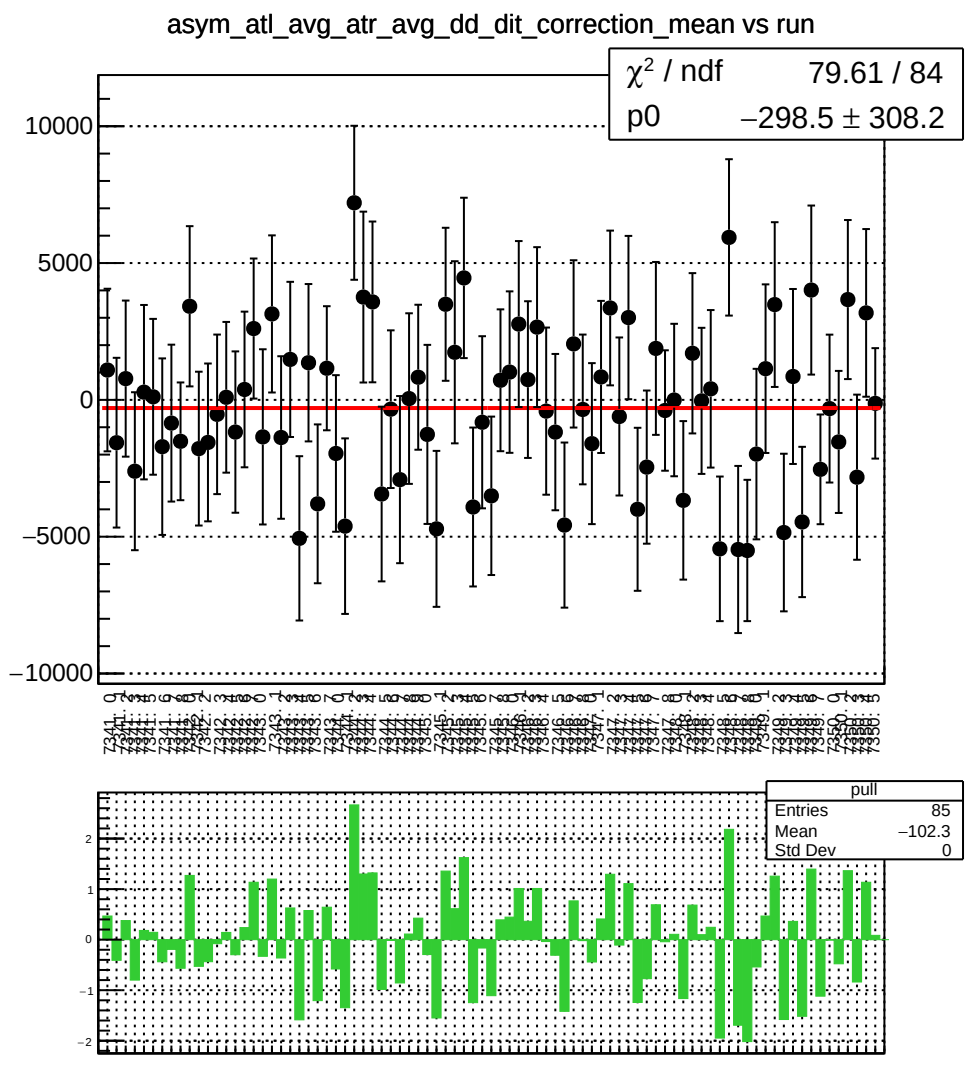

pull1D
Entries 85
Mean −0.01294
Std Dev 0.8628
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

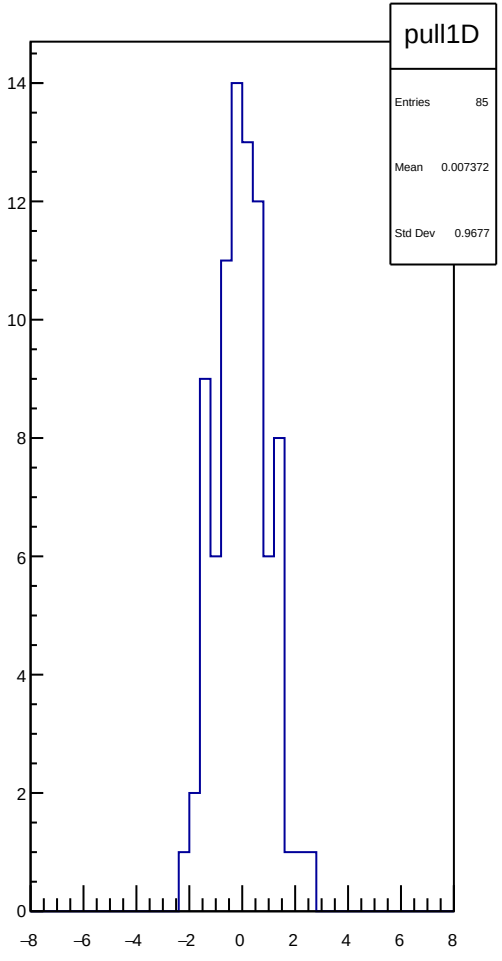

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.727e+04 / 84
p0 216.4 ± 0.1744
500
450
400
350
300
250
200
150

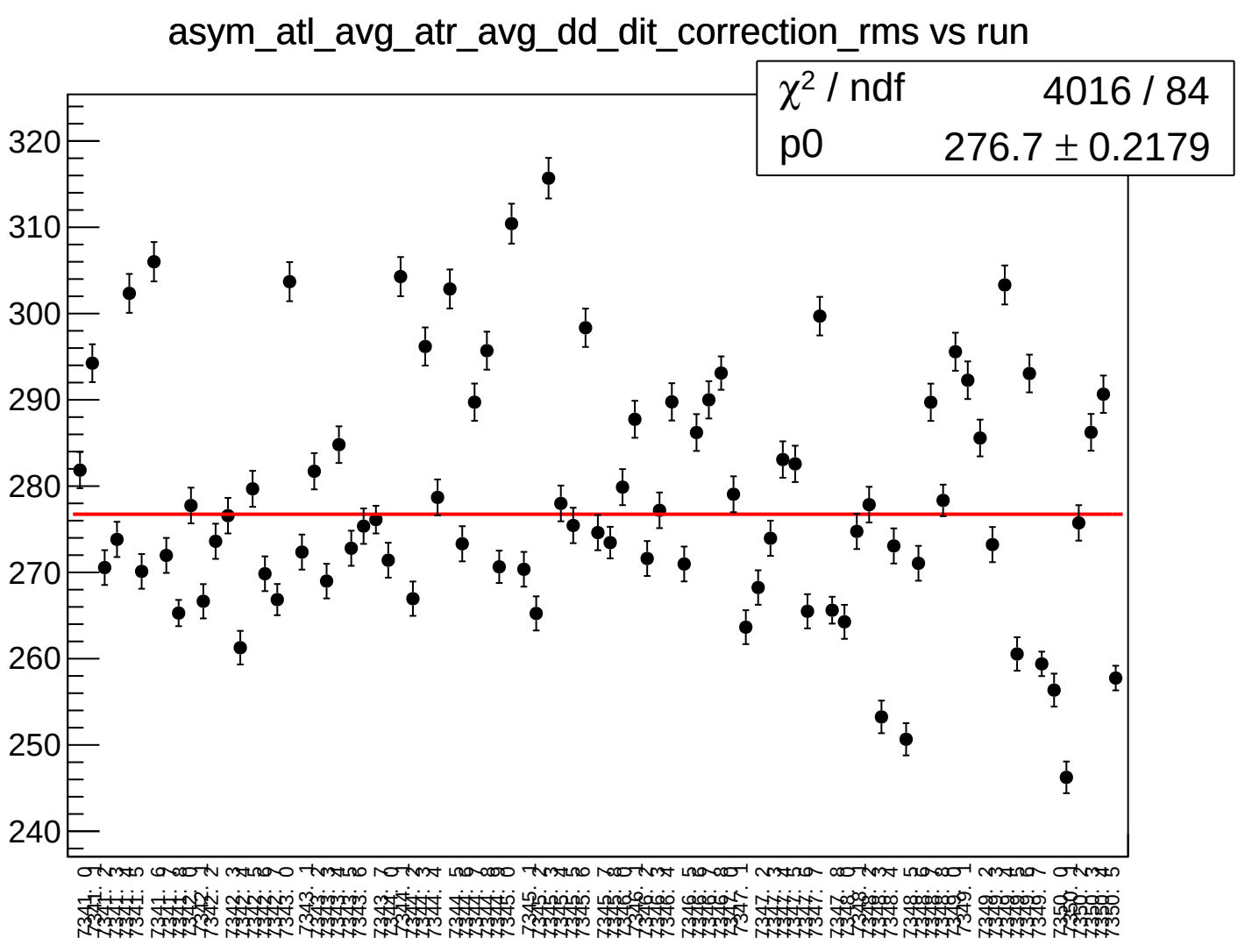

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.99 / 84
p0 −2118 ± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 598.4
Std Dev 0
2
1
0
−1
−2

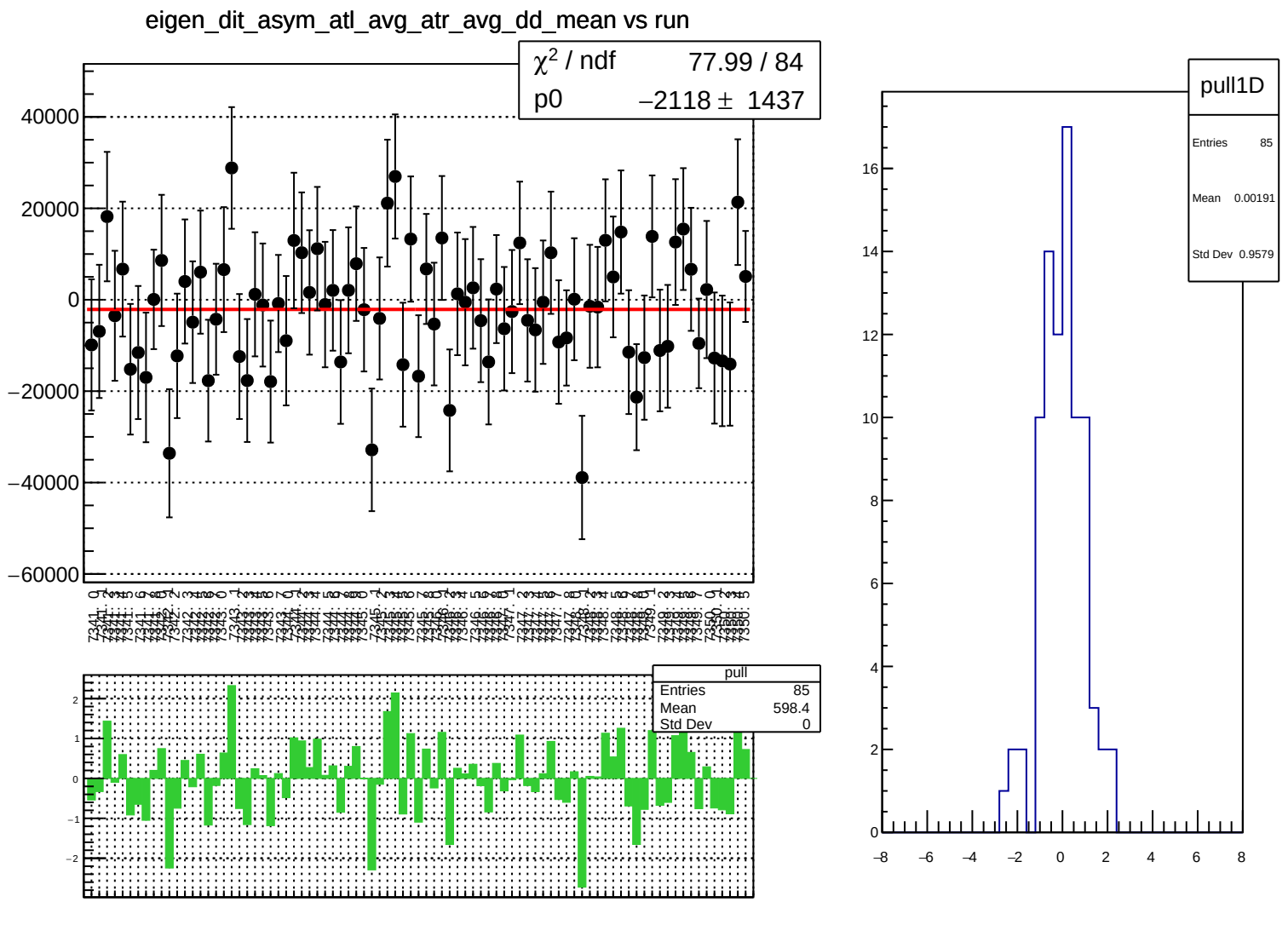

pull1D
Entries 85
Mean 0.00191
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

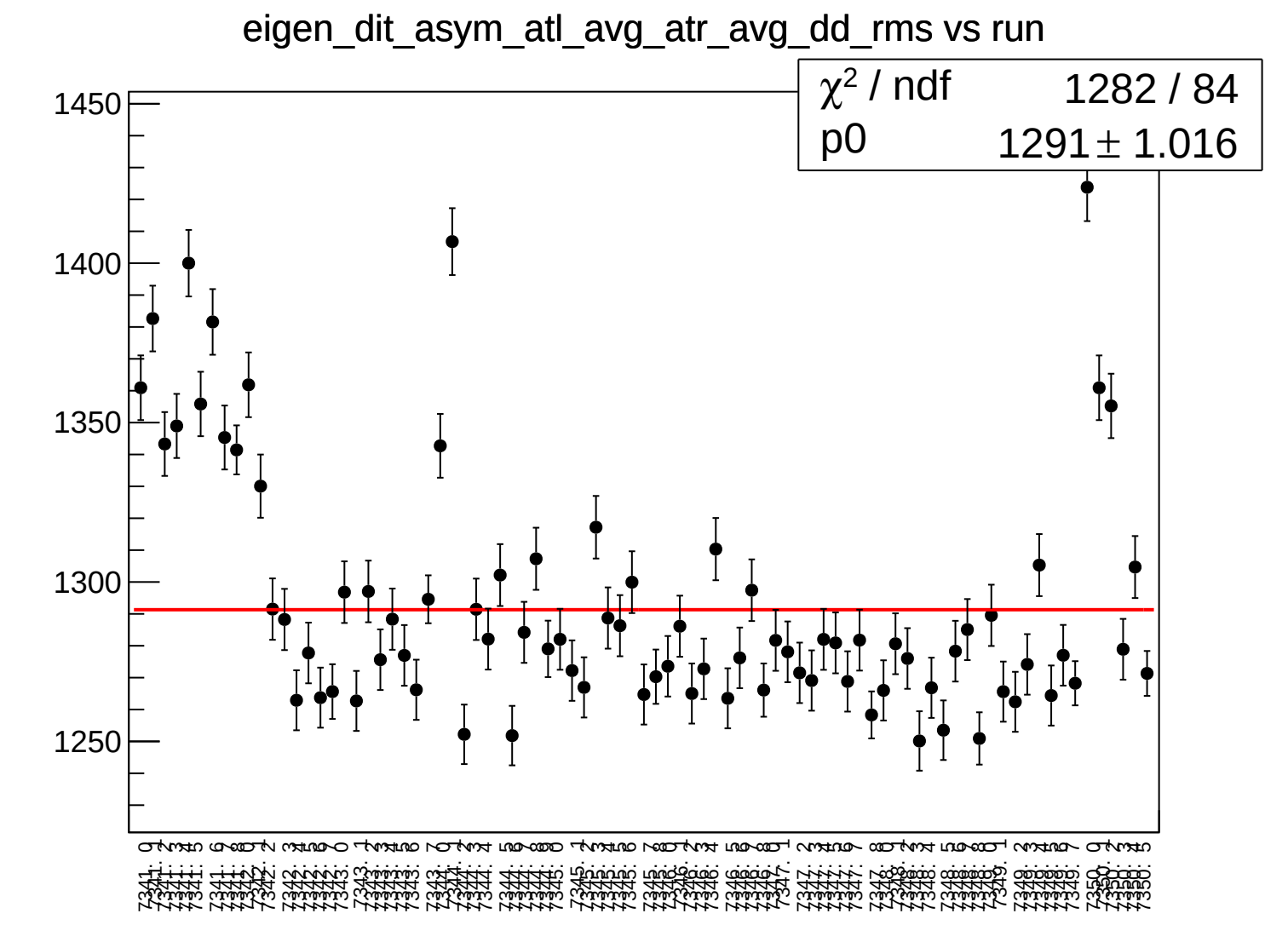

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1282 / 84
p0 1291 ± 1.016
1450
1400
1350
1300
1250

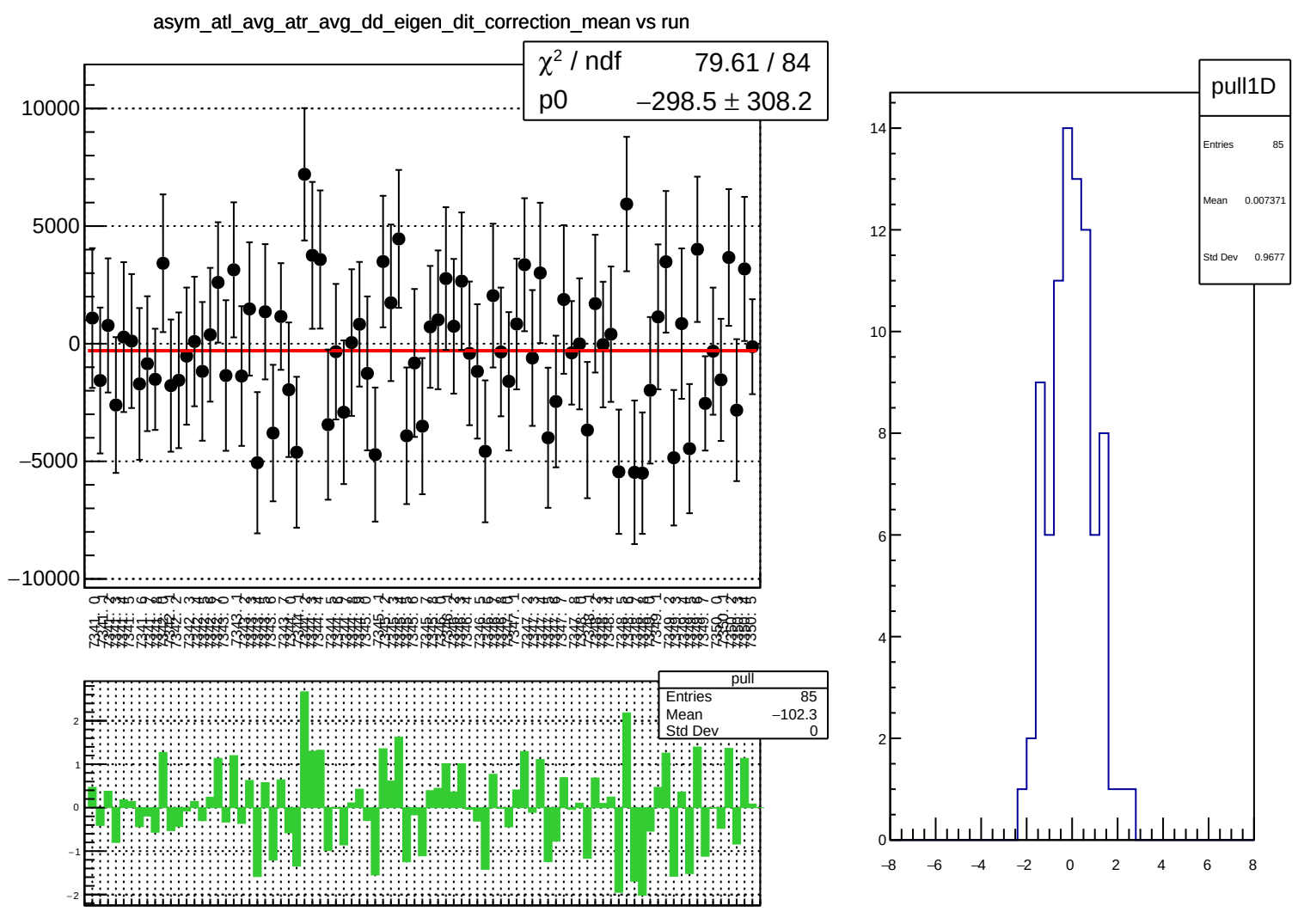

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 79.61 / 84
p0 −298.5 ± 308.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −102.3
Std Dev 0
2
1
0
−1
−2

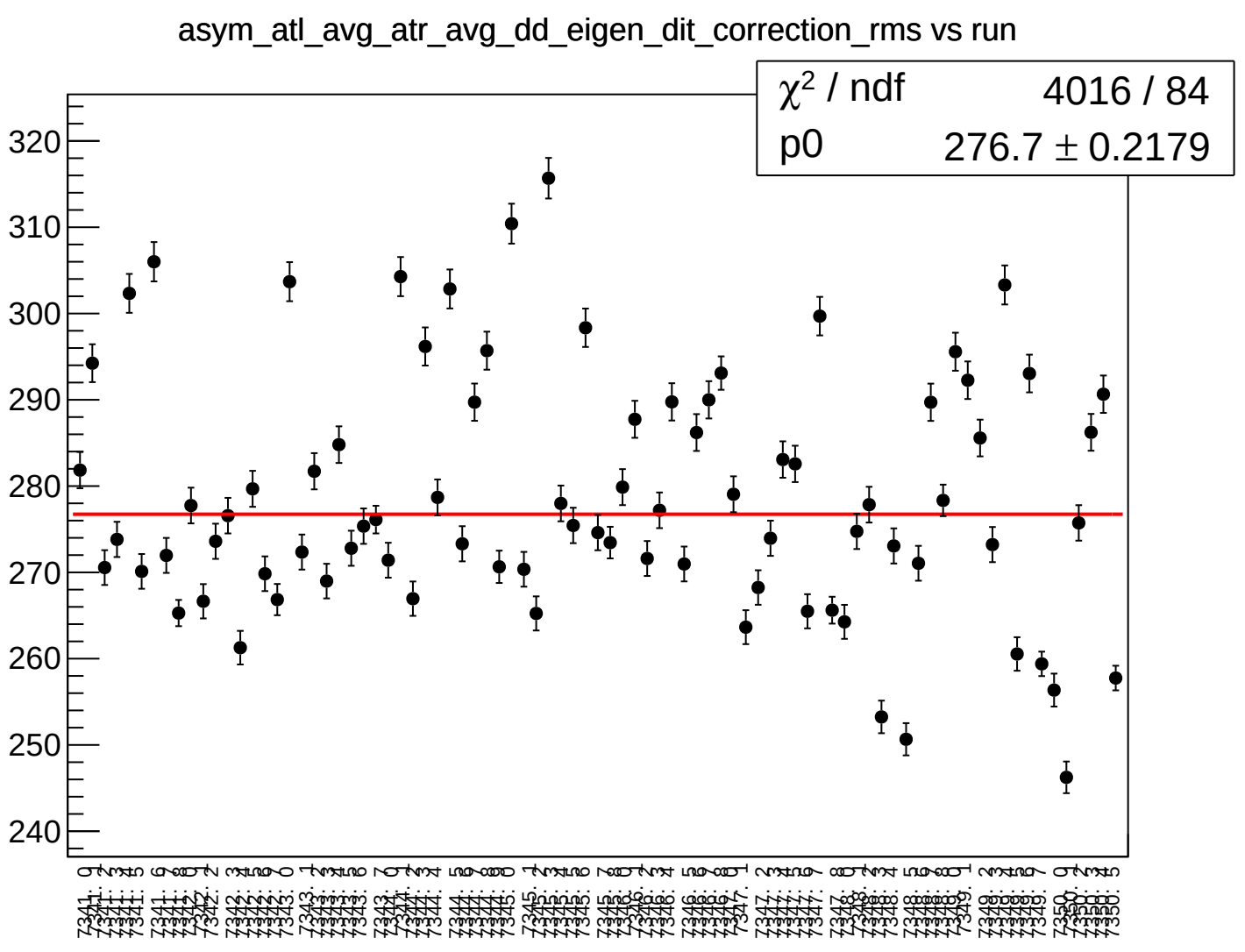

pull1D
Entries 85
Mean 0.007372
Std Dev 0.9677
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

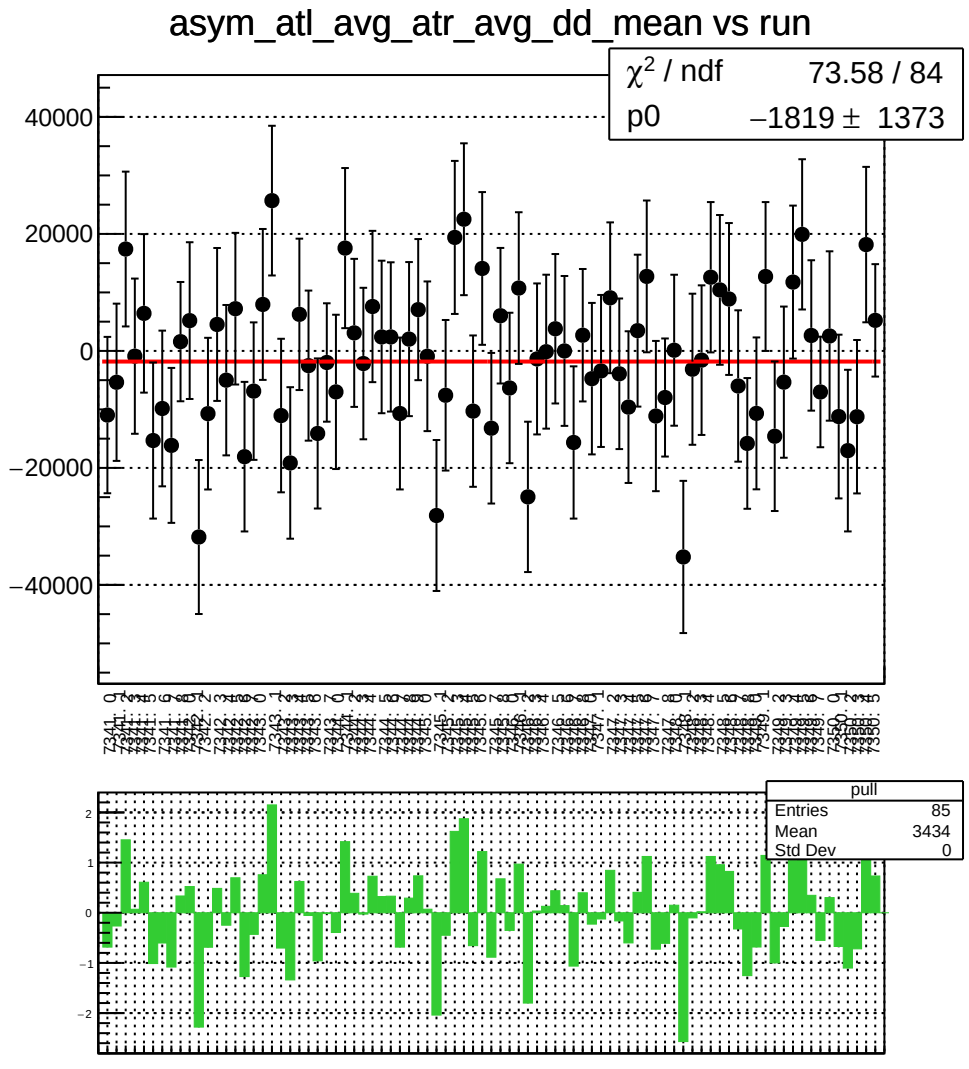

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4016 / 84
p0 276.7 ± 0.2179
320
310
300
290
280
270
260
250
240

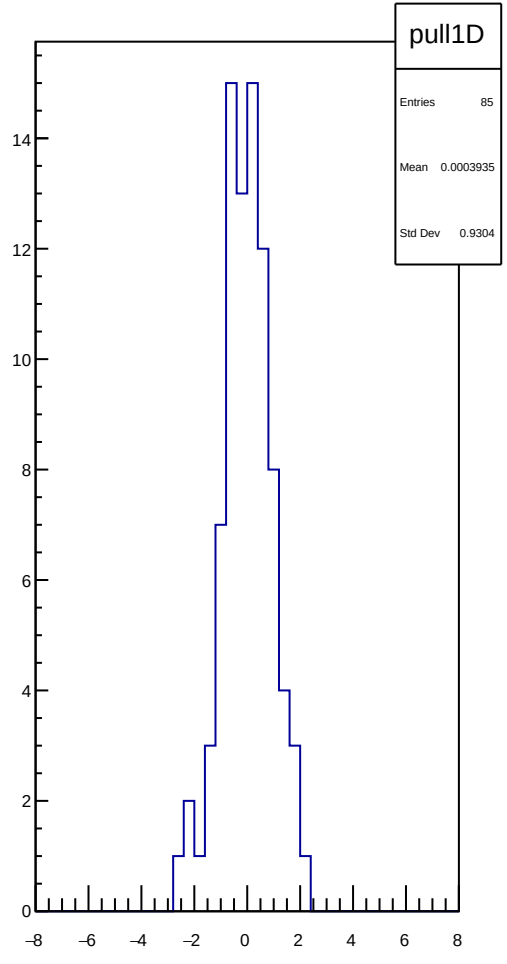

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 77.99 / 84
p0 −2118 ± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 598.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.00191
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

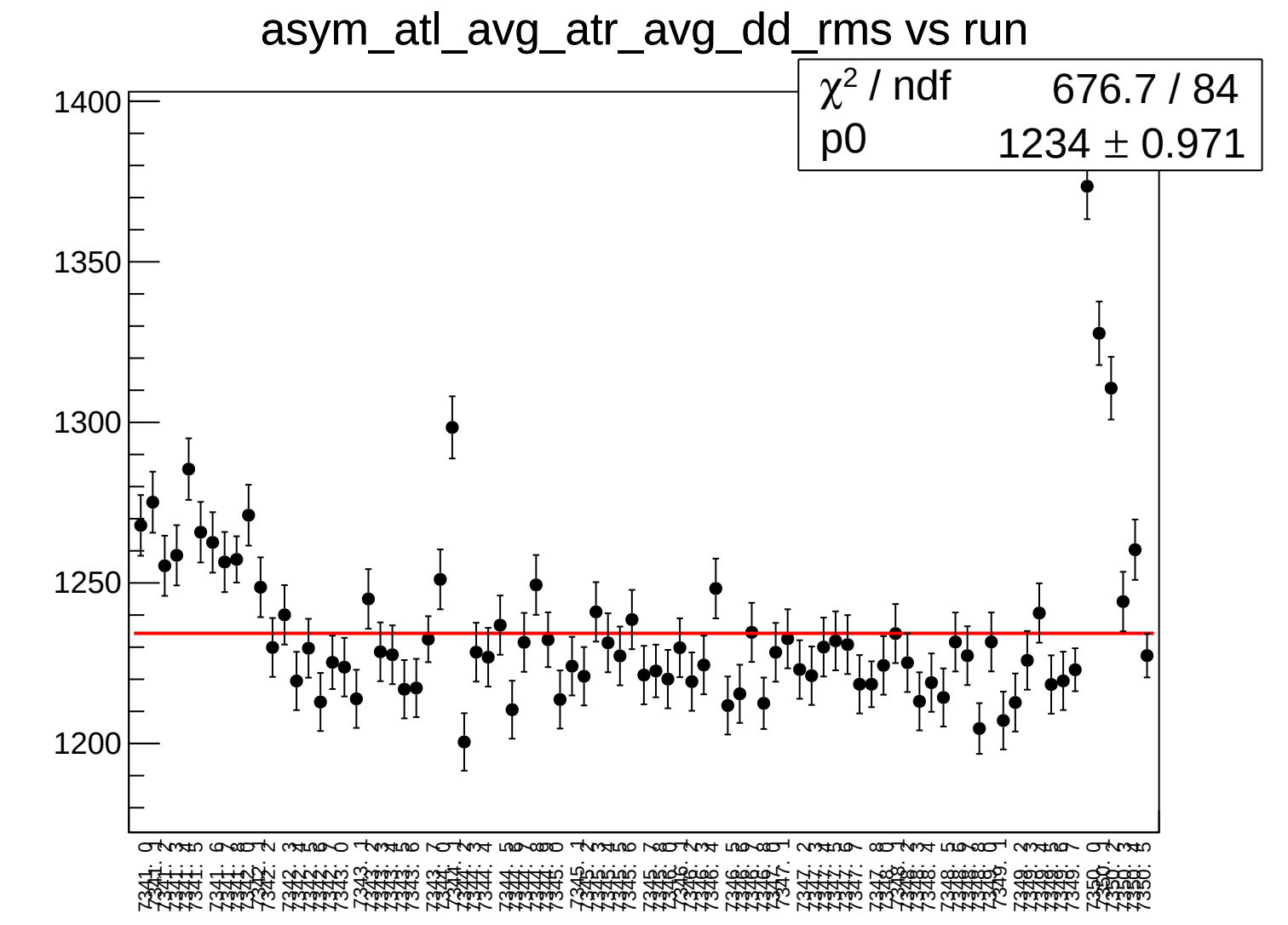

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1282 / 84
p0 1291 ± 1.016
1450
1400
1350
1300
1250

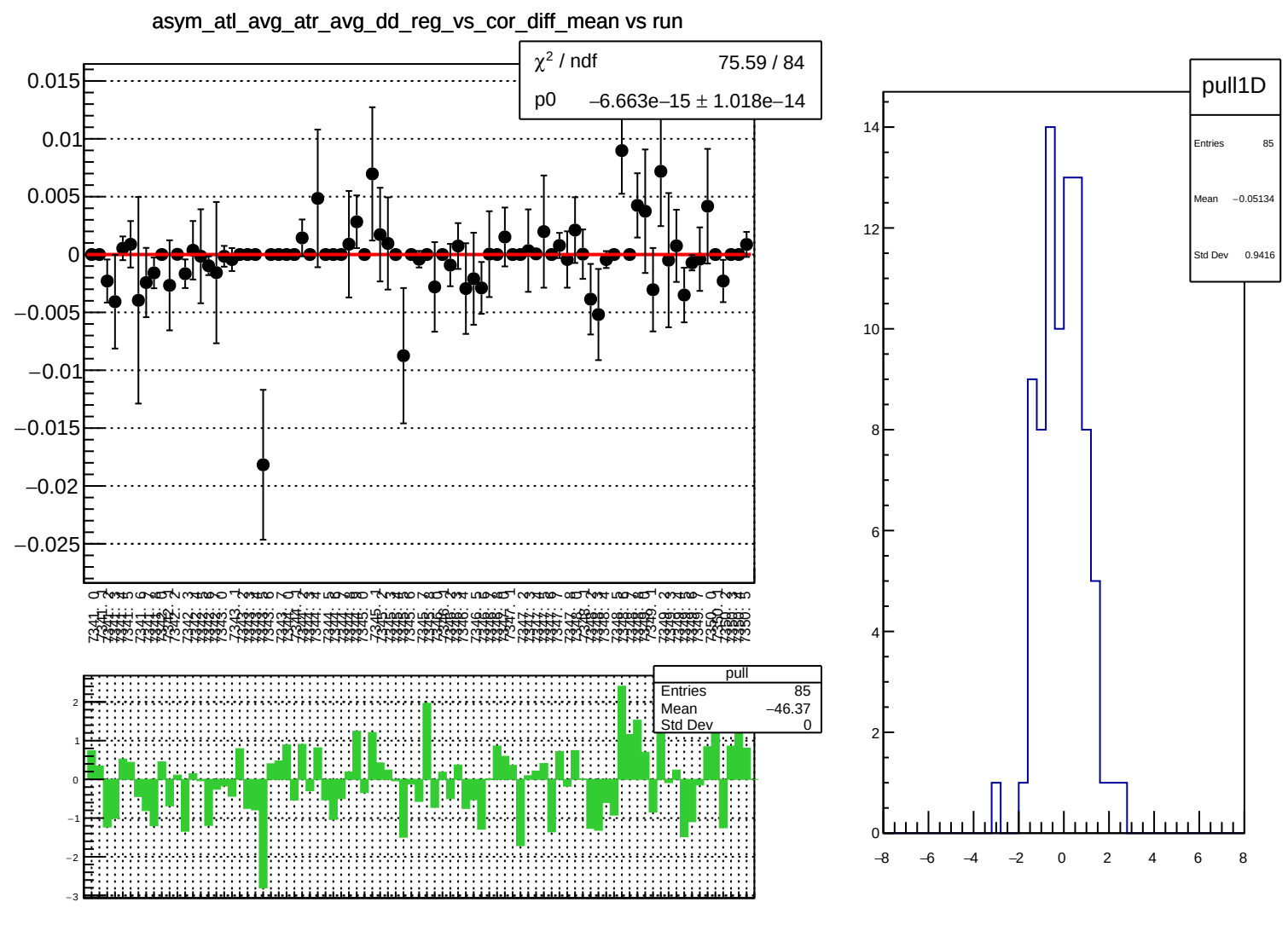

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.61 / 84
p0 −298.5 ± 308.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −102.3
Std Dev 0
pull1D
Entries 85
Mean 0.007371
Std Dev 0.9677

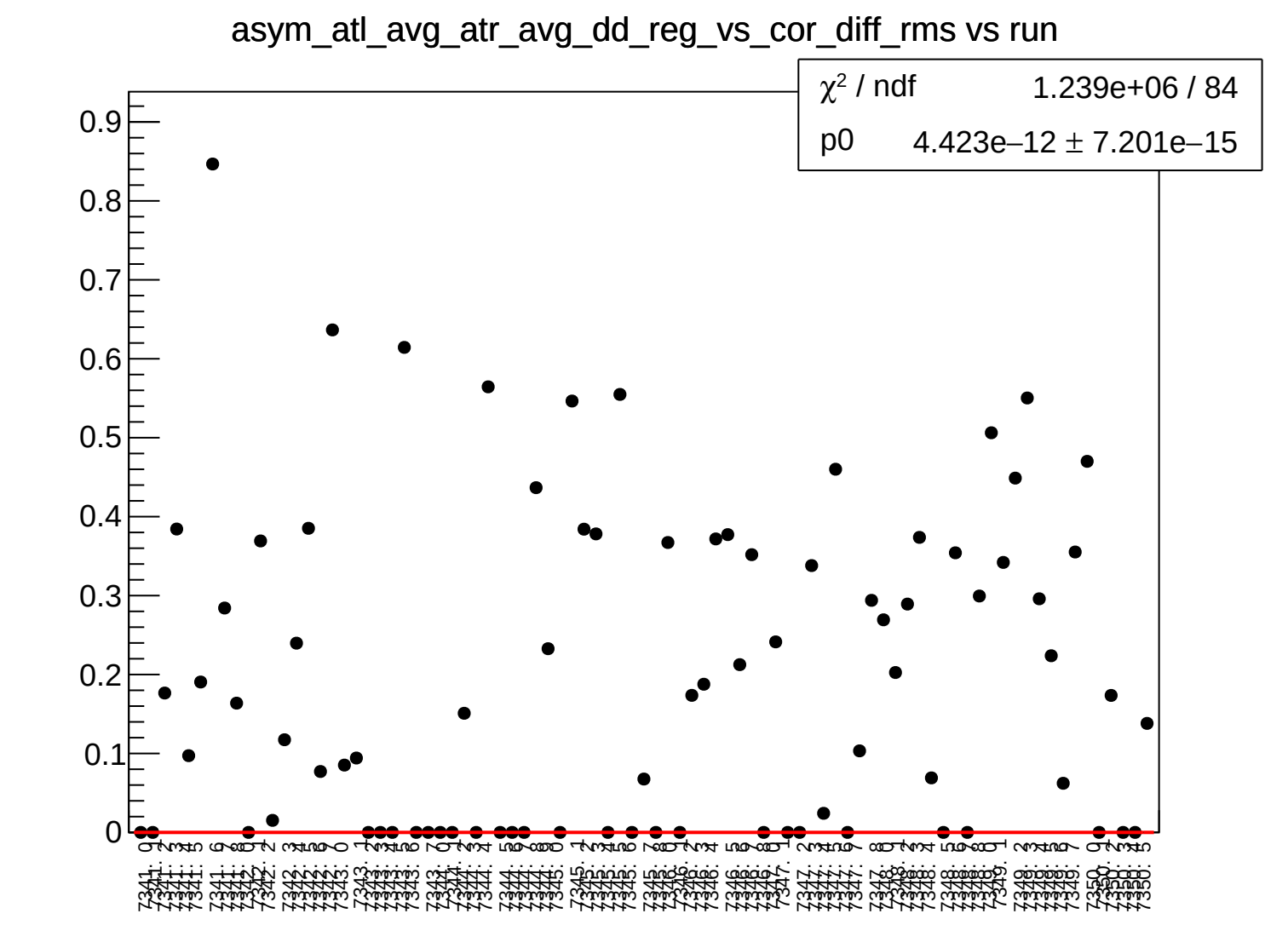

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4016 / 84
p0 276.7 ± 0.2179
320
310
300
290
280
270
260
250
240

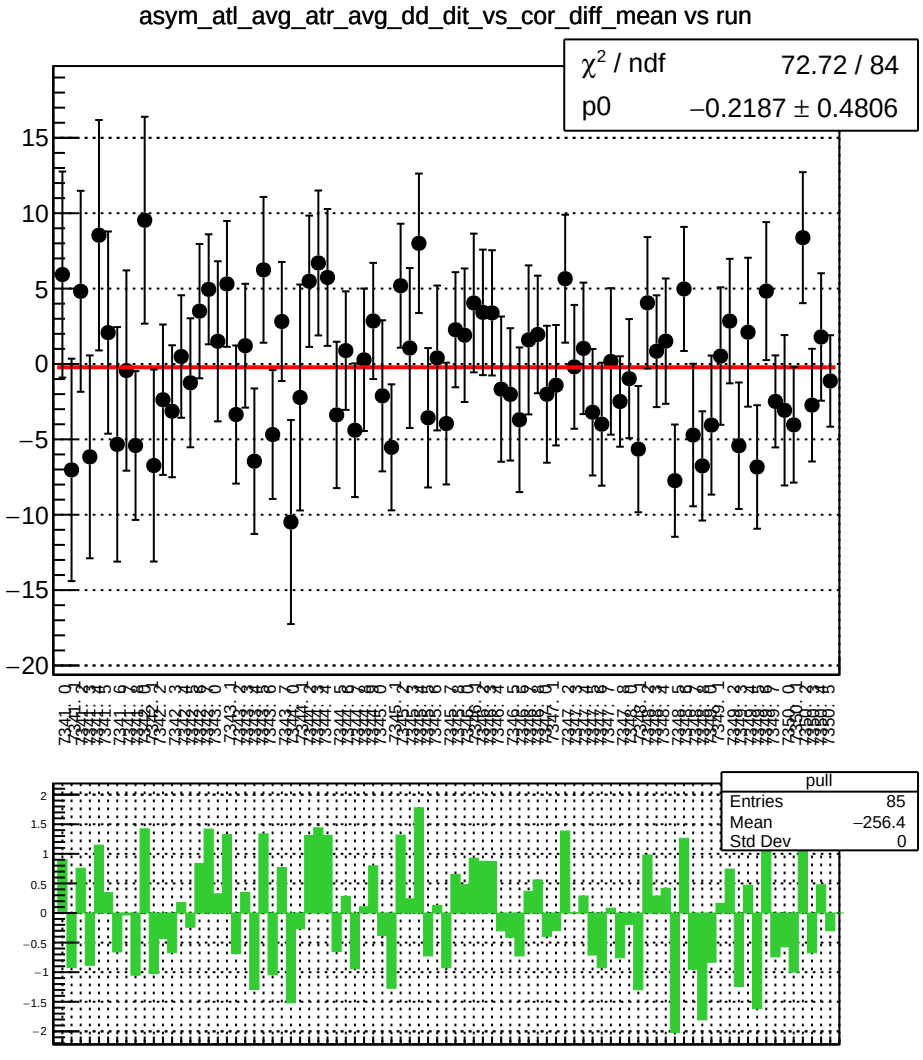

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 73.58 / 84
p0 −1819 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 3434
Std Dev 0

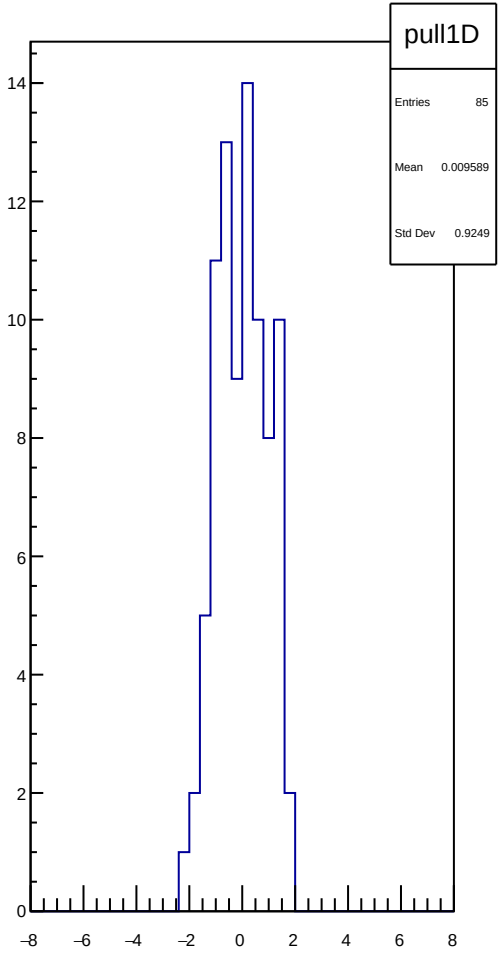

pull1D
Entries 85
Mean 0.0003935
Std Dev 0.9304
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

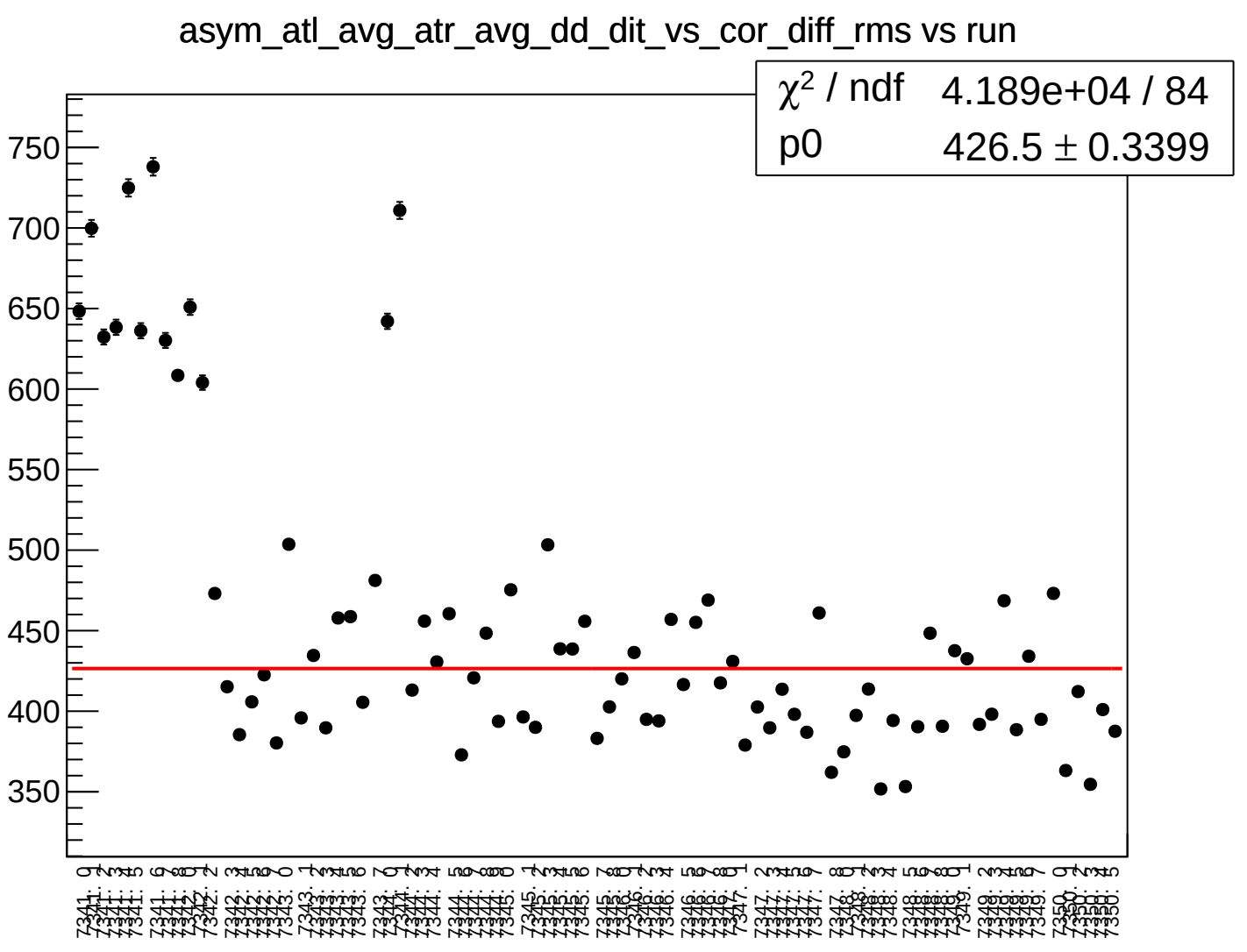

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 676.7 / 84
p0 1234 ± 0.971
1400
1350
1300
1250
1200

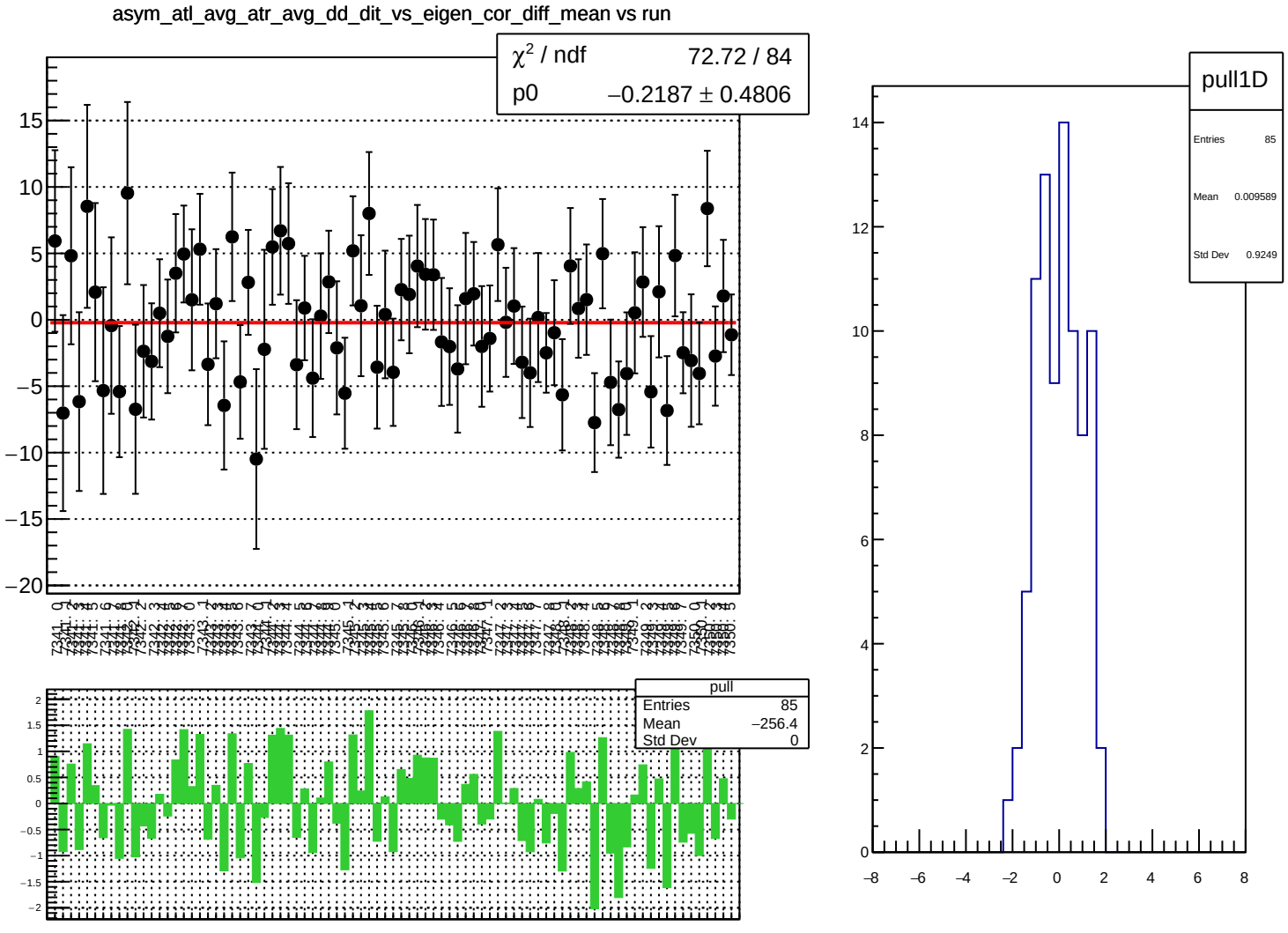

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.59 / 84
p0 −6.663e−15 ± 1.018e−14
pull
Entries 85
Mean −46.37
Std Dev 0
pull1D
Entries 85
Mean −0.05134
Std Dev 0.9416

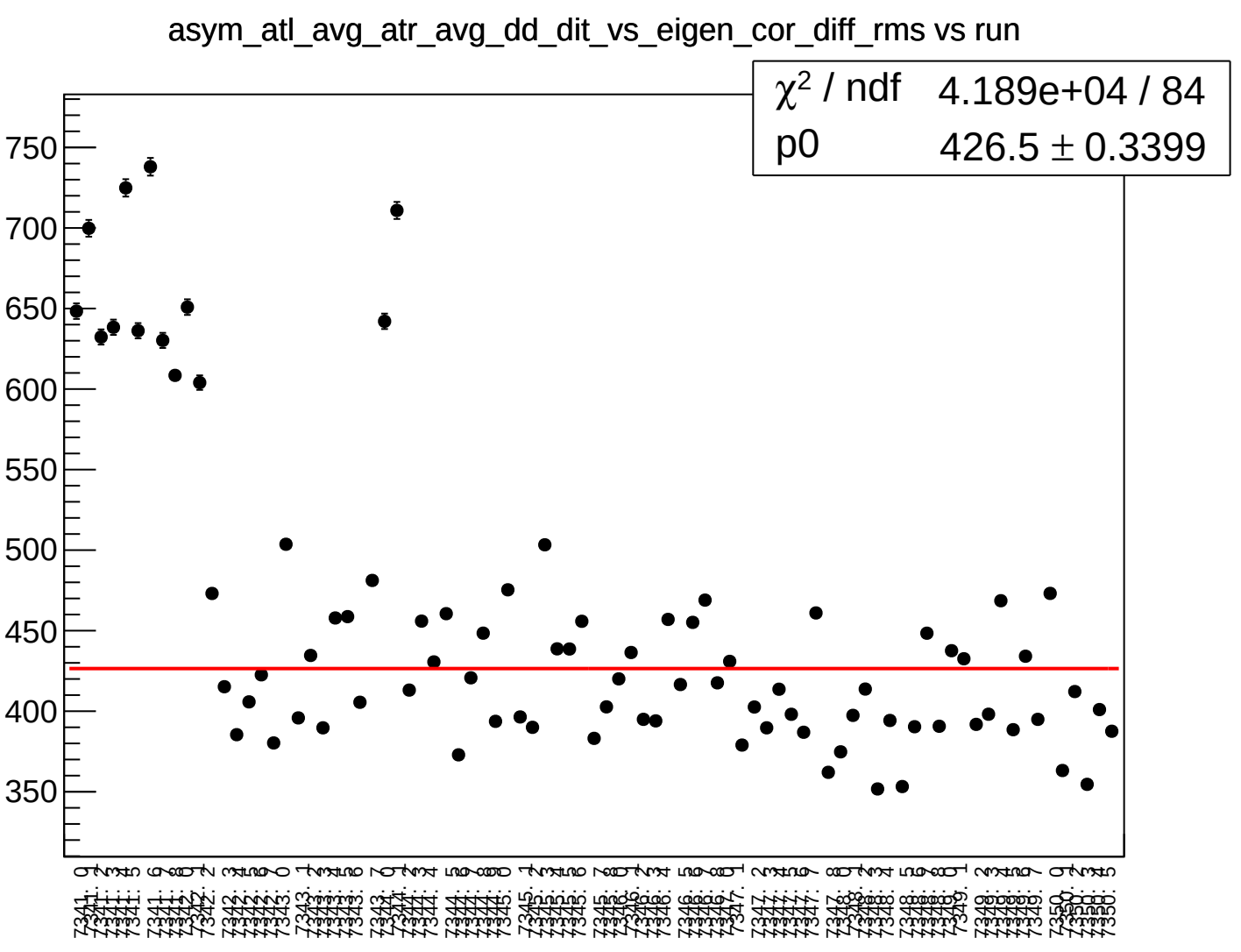

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.239e+06 / 84
p0 4.423e−12 ± 7.201e−15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

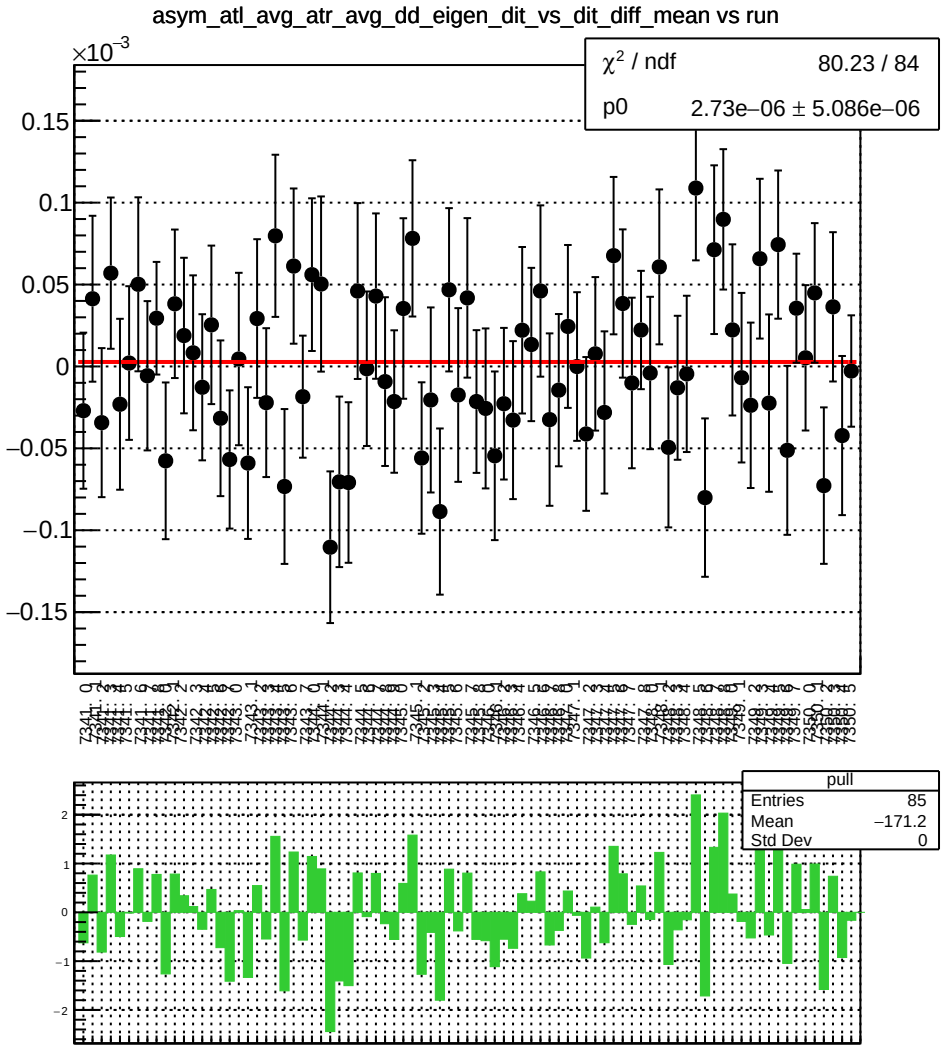

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.72 / 84
p0 −0.2187 ± 0.4806
pull
Entries 85
Mean −256.4
Std Dev 0

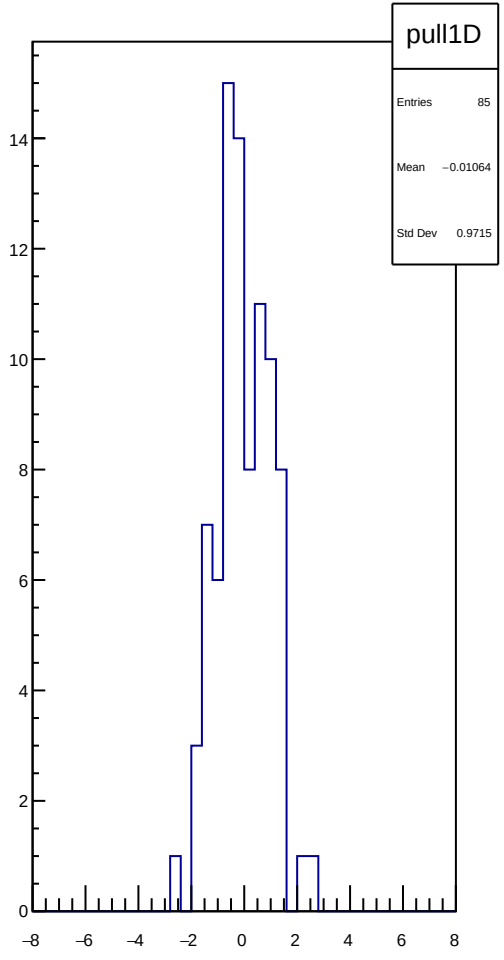

pull1D
Entries 85
Mean 0.009589
Std Dev 0.9249

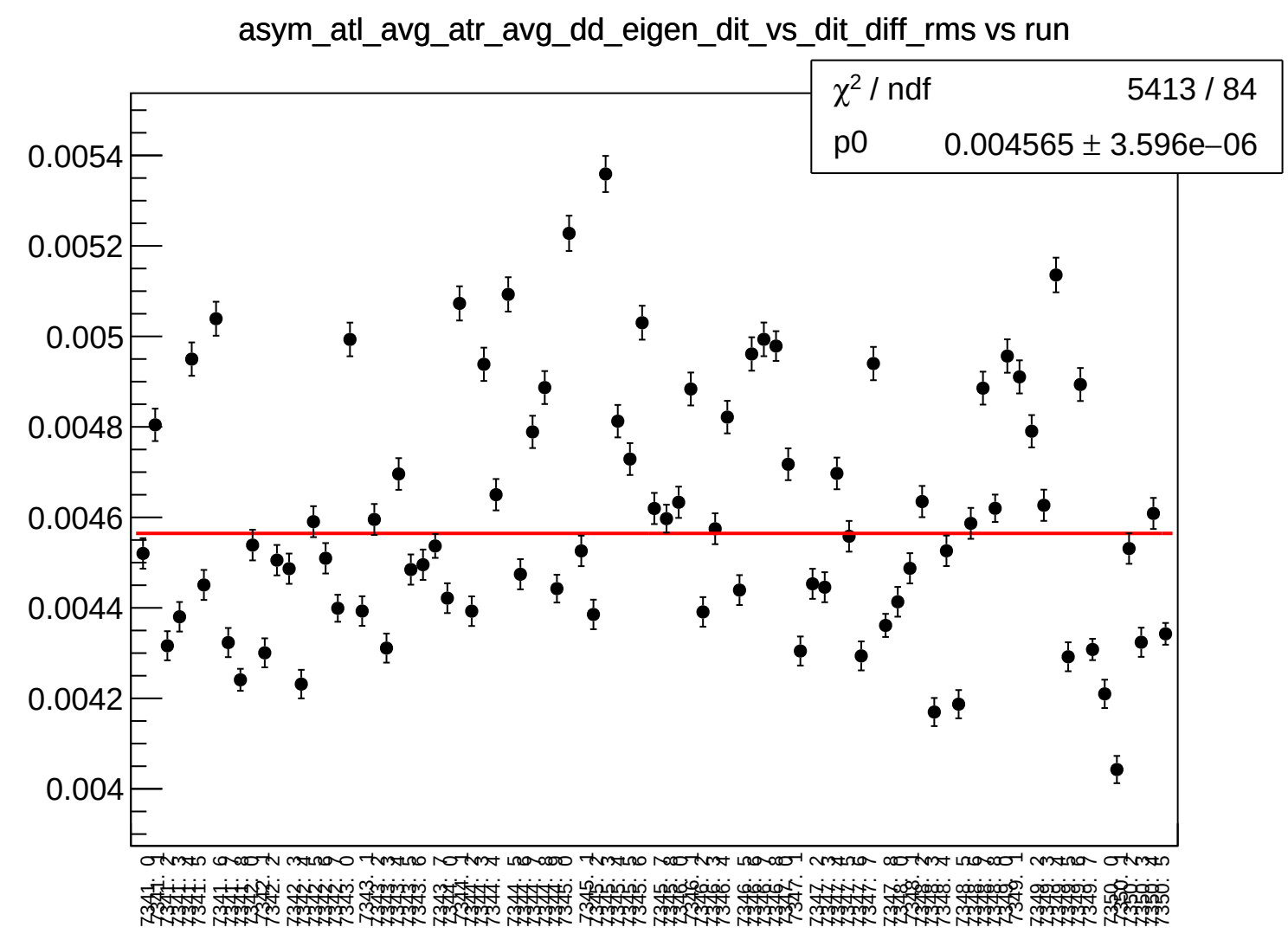

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 84
p0 426.5 ± 0.3399
750
700
650
600
550
500
450
400
350

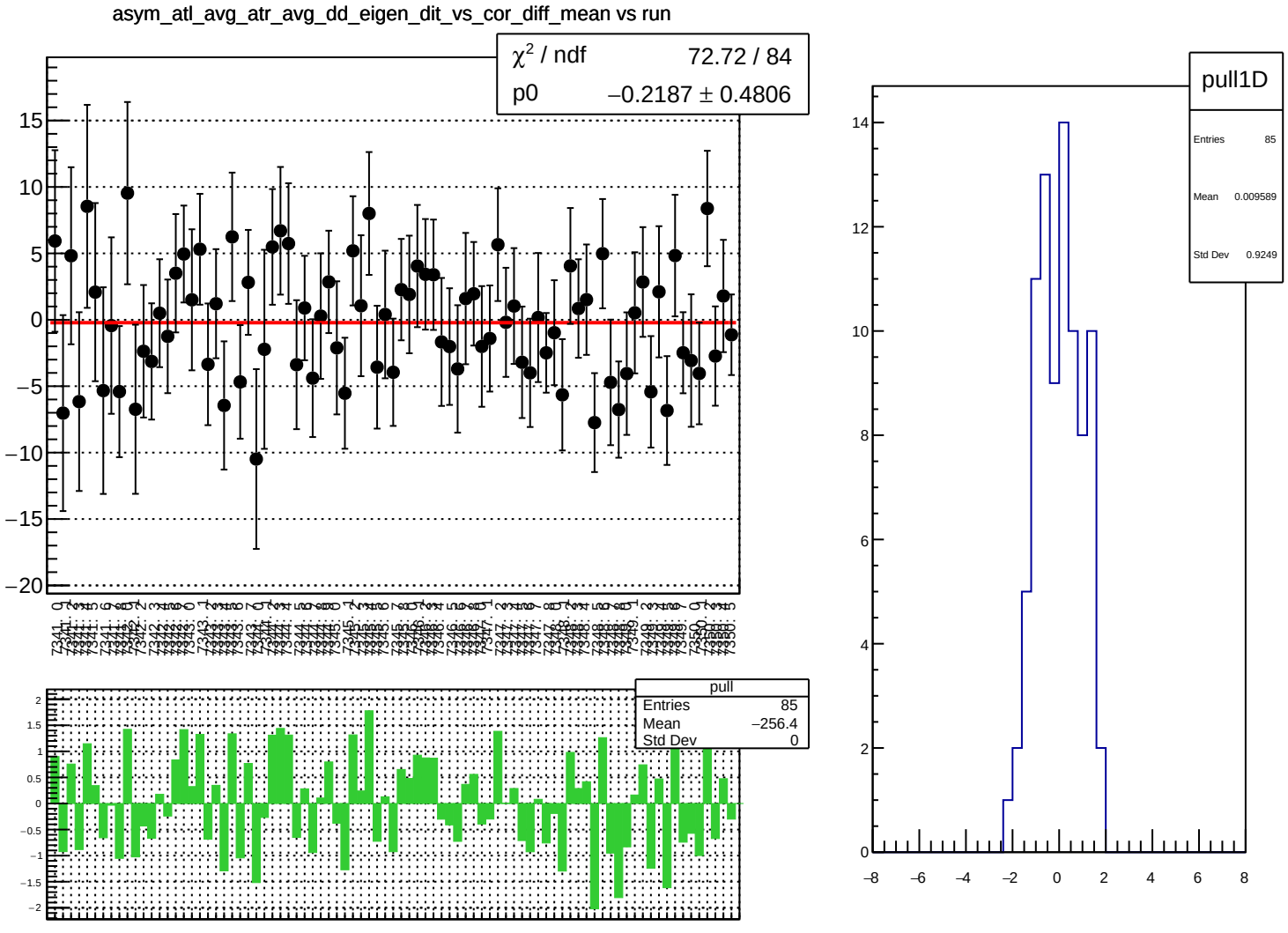

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.72 / 84
p0 −0.2187 ± 0.4806
pull
Entries 85
Mean −256.4
Std Dev 0
pull1D
Entries 85
Mean 0.009589
Std Dev 0.9249

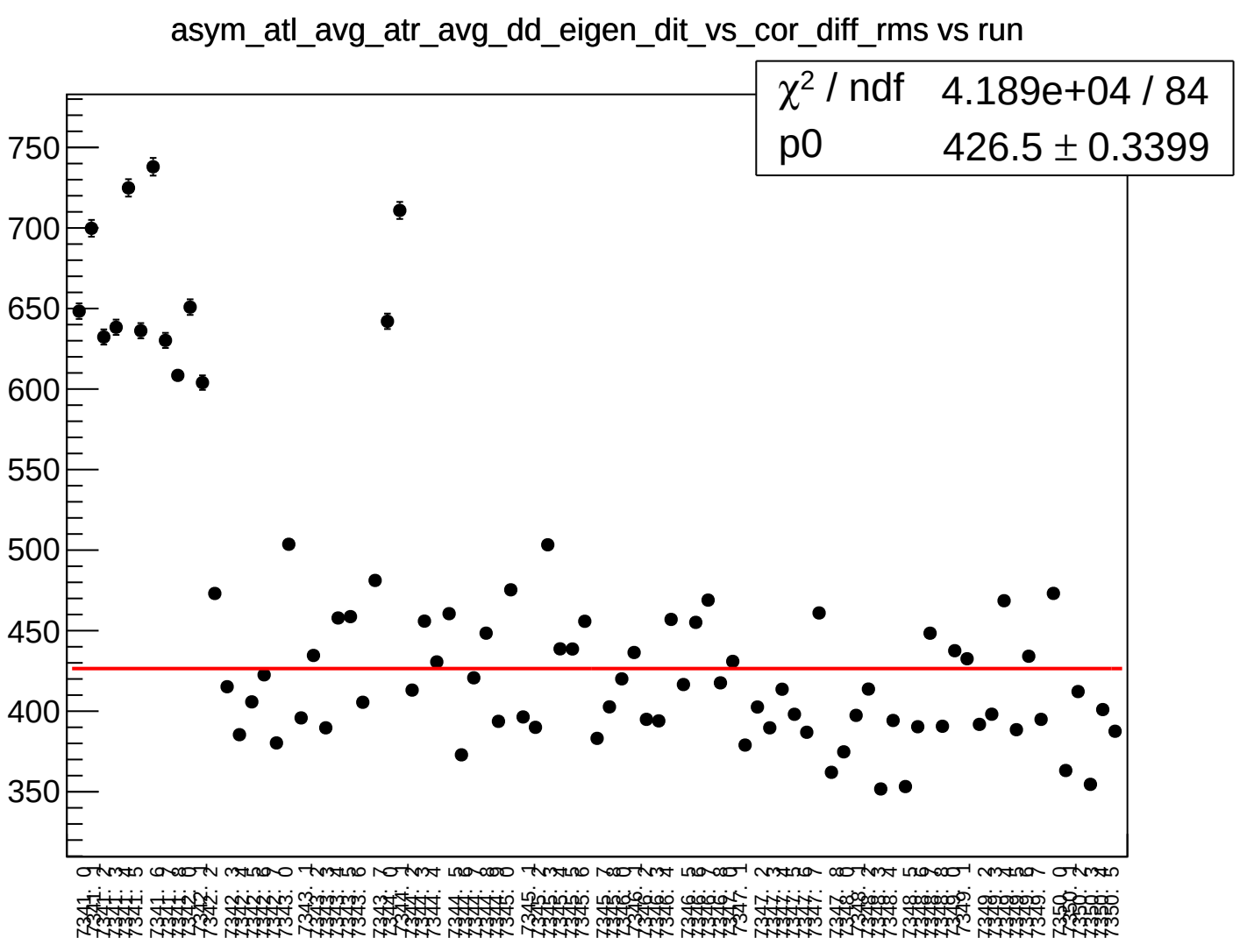

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 84
p0 426.5 ± 0.3399
750
700
650
600
550
500
450
400
350

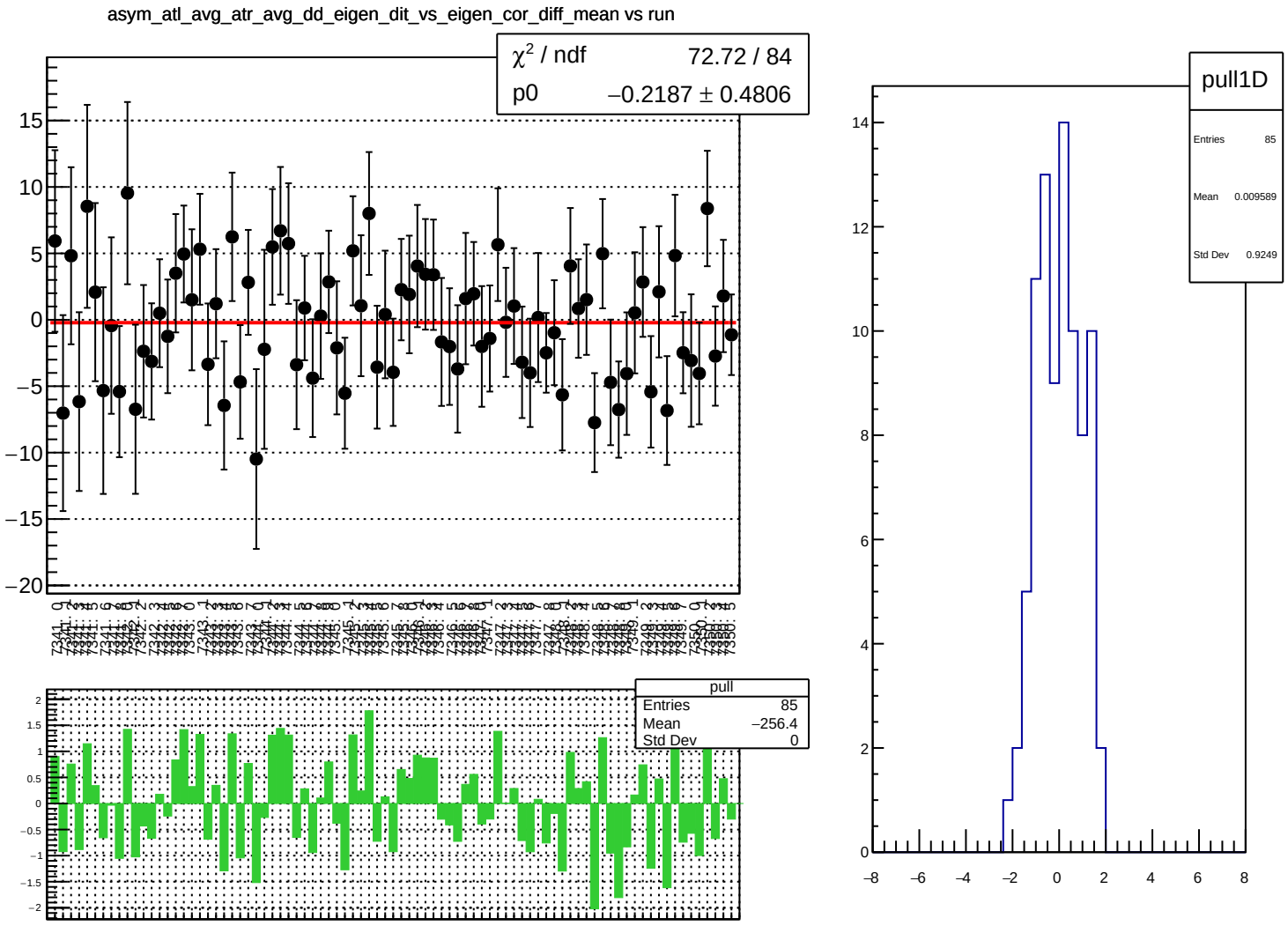

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.23 / 84
p0 2.73e−06 ± 5.086e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean −171.2
Std Dev 0
2
1
0
−1
−2

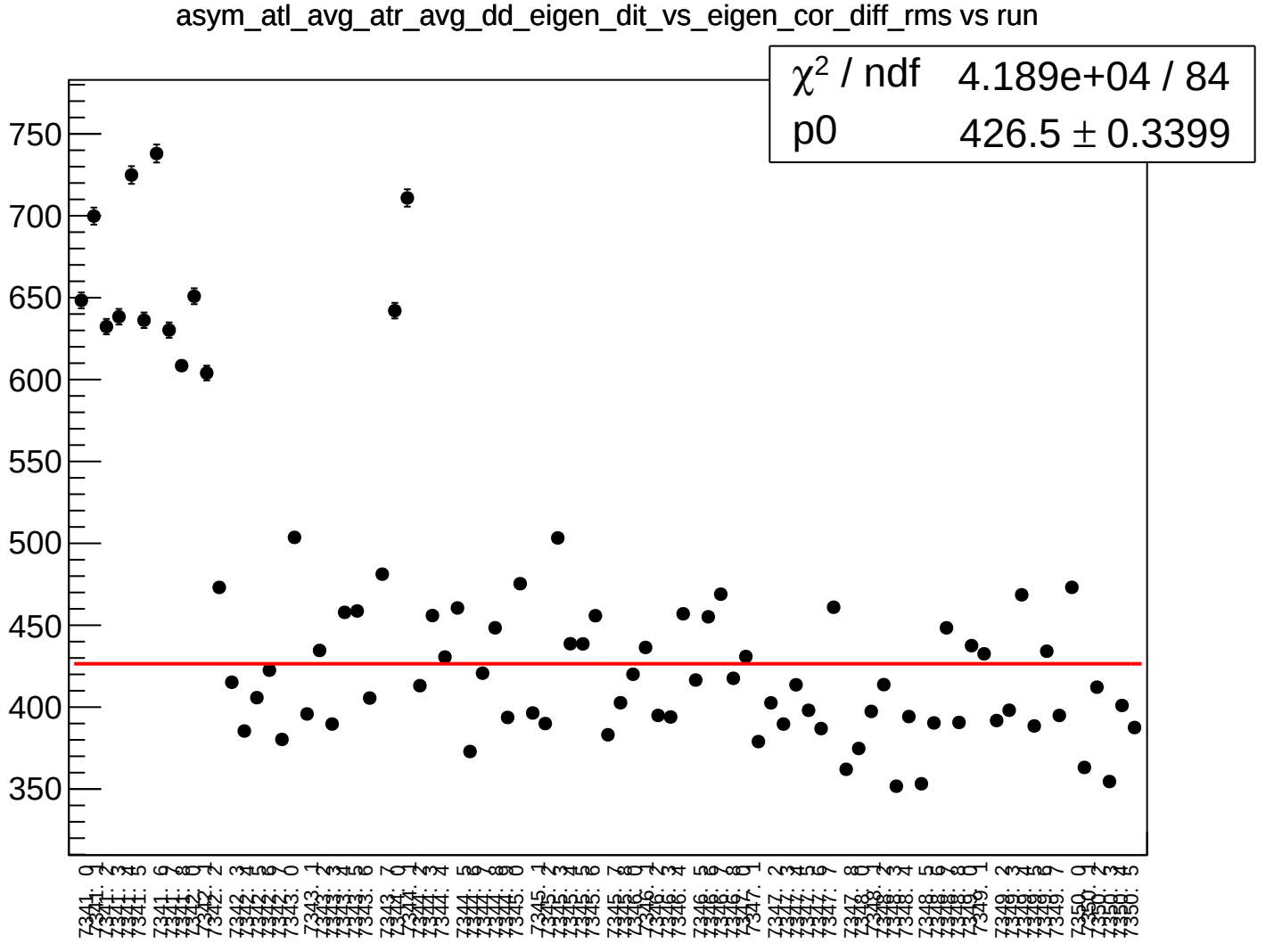

pull1D
Entries 85
Mean −0.01064
Std Dev 0.9715
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

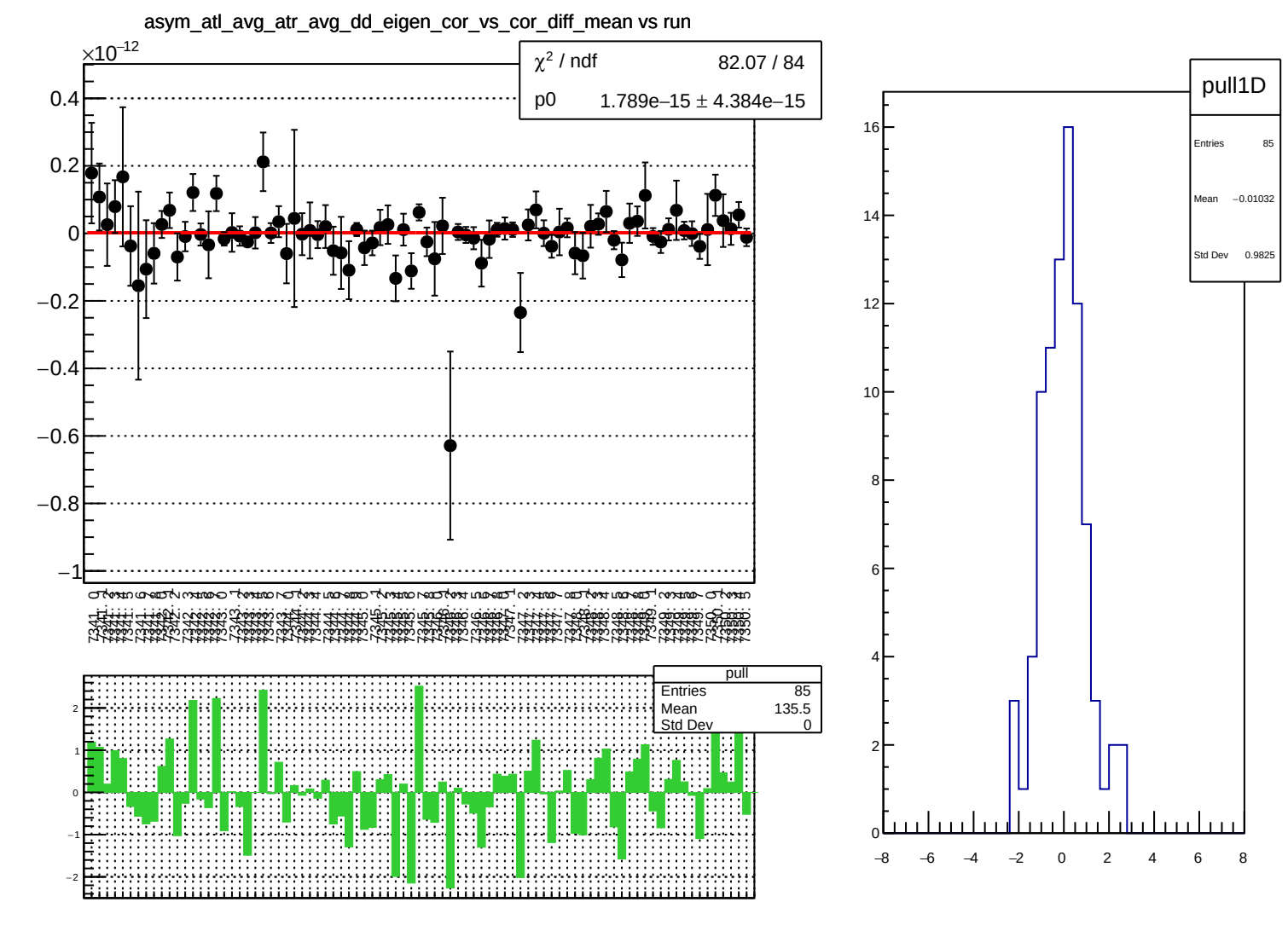

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5413 / 84
p0 0.004565 ± 3.596e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

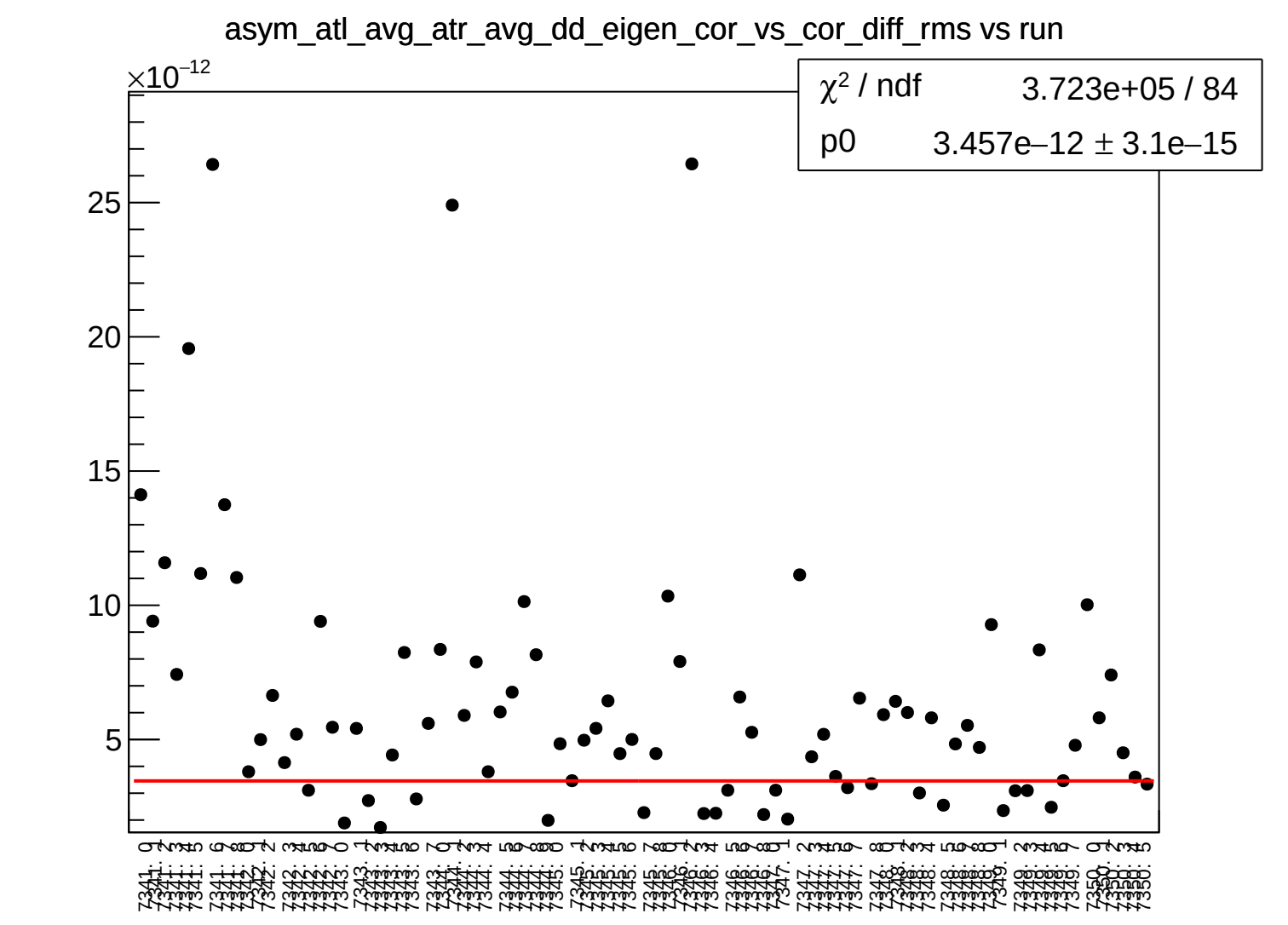

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.72 / 84
p0 −0.2187 ± 0.4806
pull
Entries 85
Mean −256.4
Std Dev 0
pull1D
Entries 85
Mean 0.009589
Std Dev 0.9249

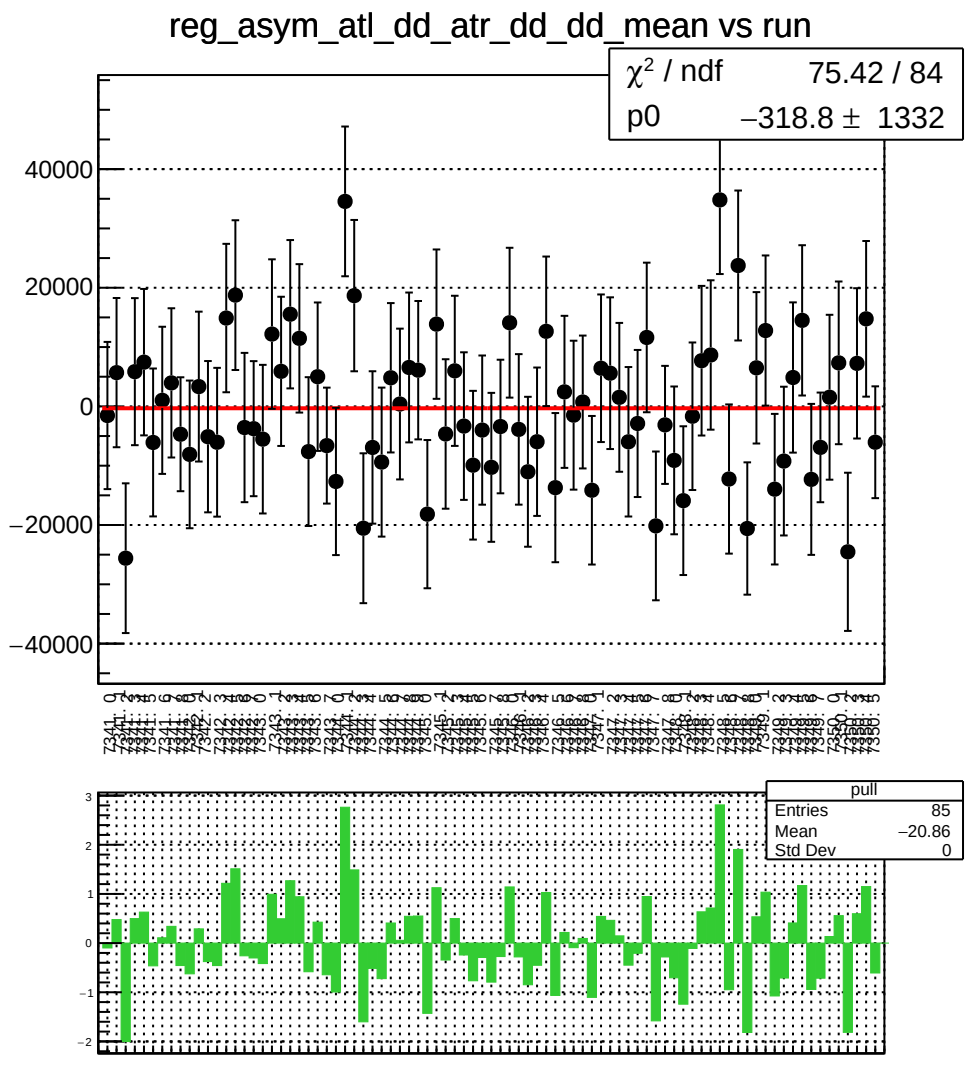

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 84
p0 426.5 ± 0.3399
750
700
650
600
550
500
450
400
350

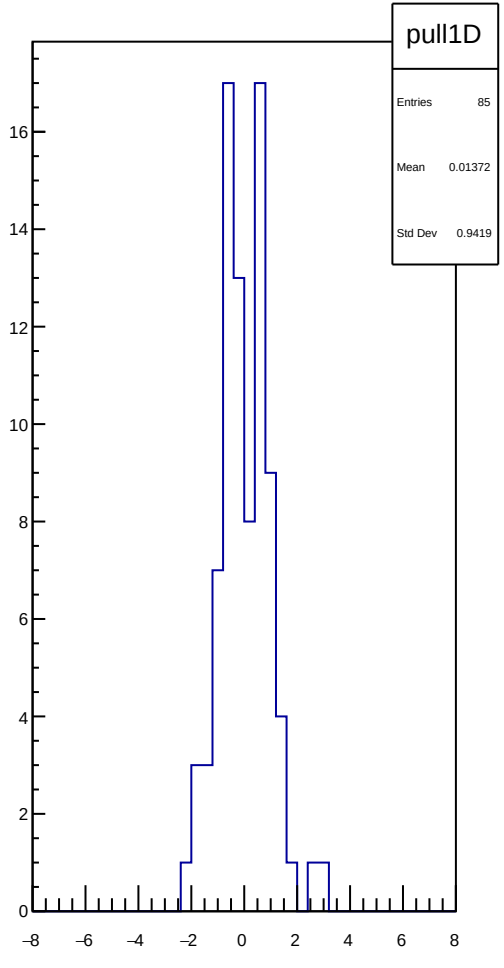

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.72 / 84
p0 −0.2187 ± 0.4806
pull
Entries 85
Mean −256.4
Std Dev 0
pull1D
Entries 85
Mean 0.009589
Std Dev 0.9249

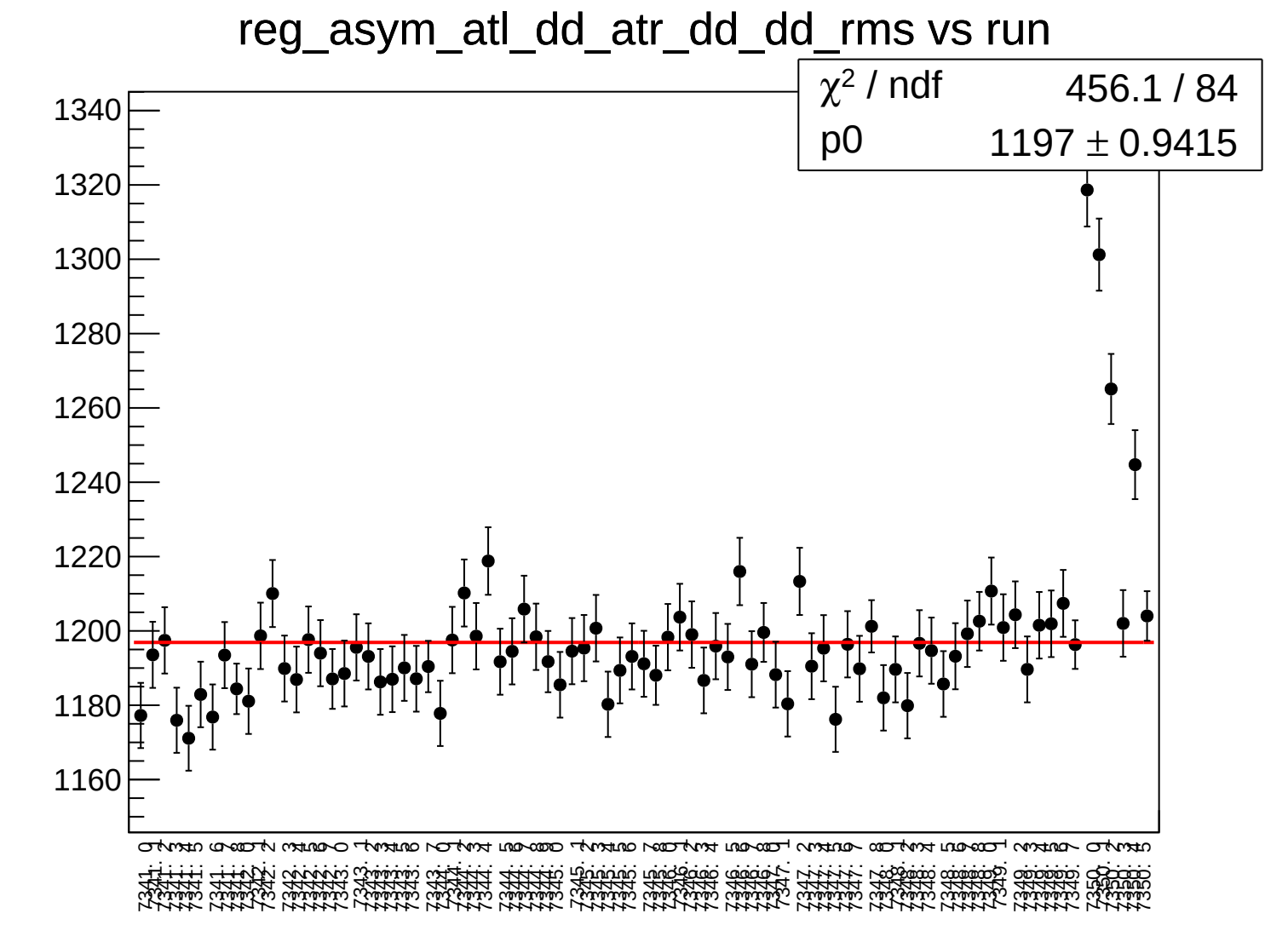

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 84
p0 426.5 ± 0.3399
750
700
650
600
550
500
450
400
350

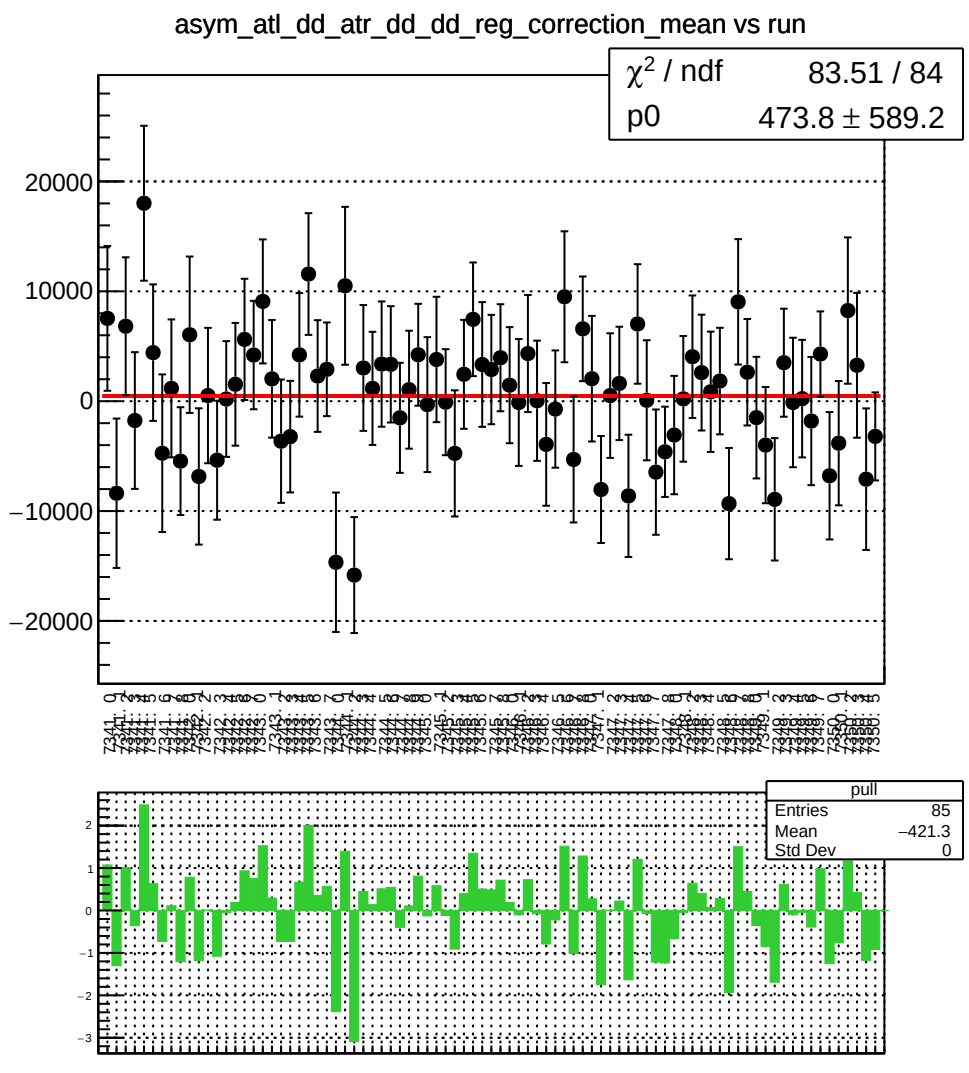

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.07 / 84
p0 1.789e−15 ± 4.384e−15
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 85
Mean 135.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01032
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

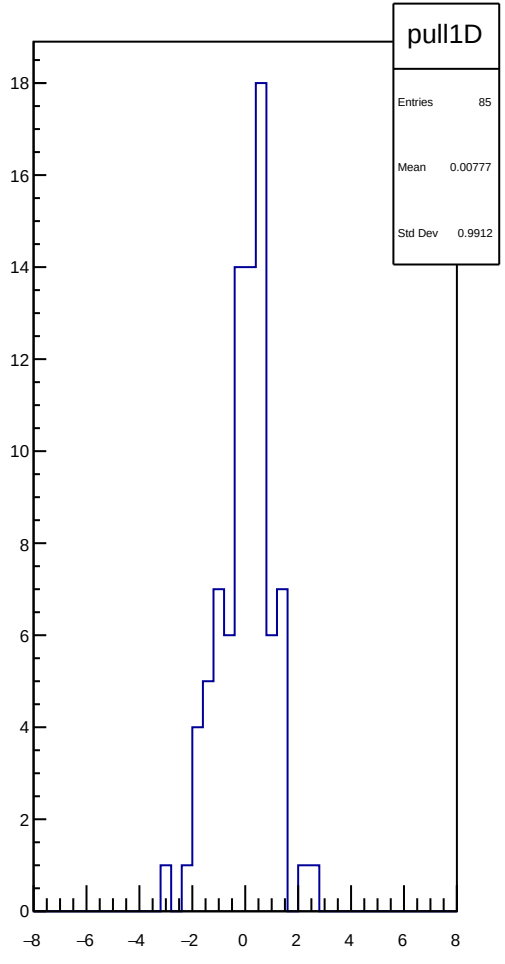

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.723e+05 / 84
p0 3.457e−12 ± 3.1e−15
25
20
15
10
5

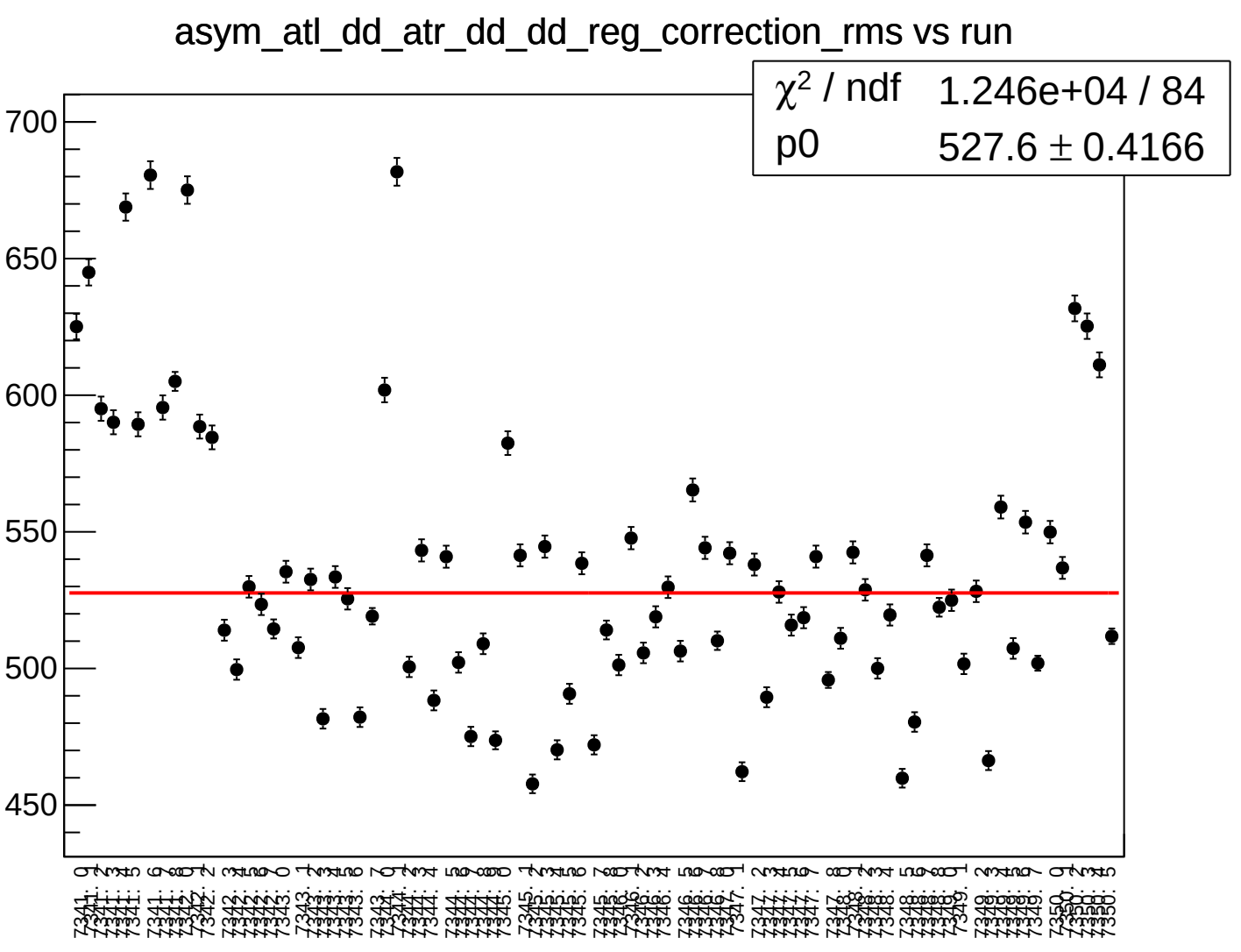

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 75.42 / 84
p0 −318.8 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −20.86
Std Dev 0
3
2
1
0
−1
−2

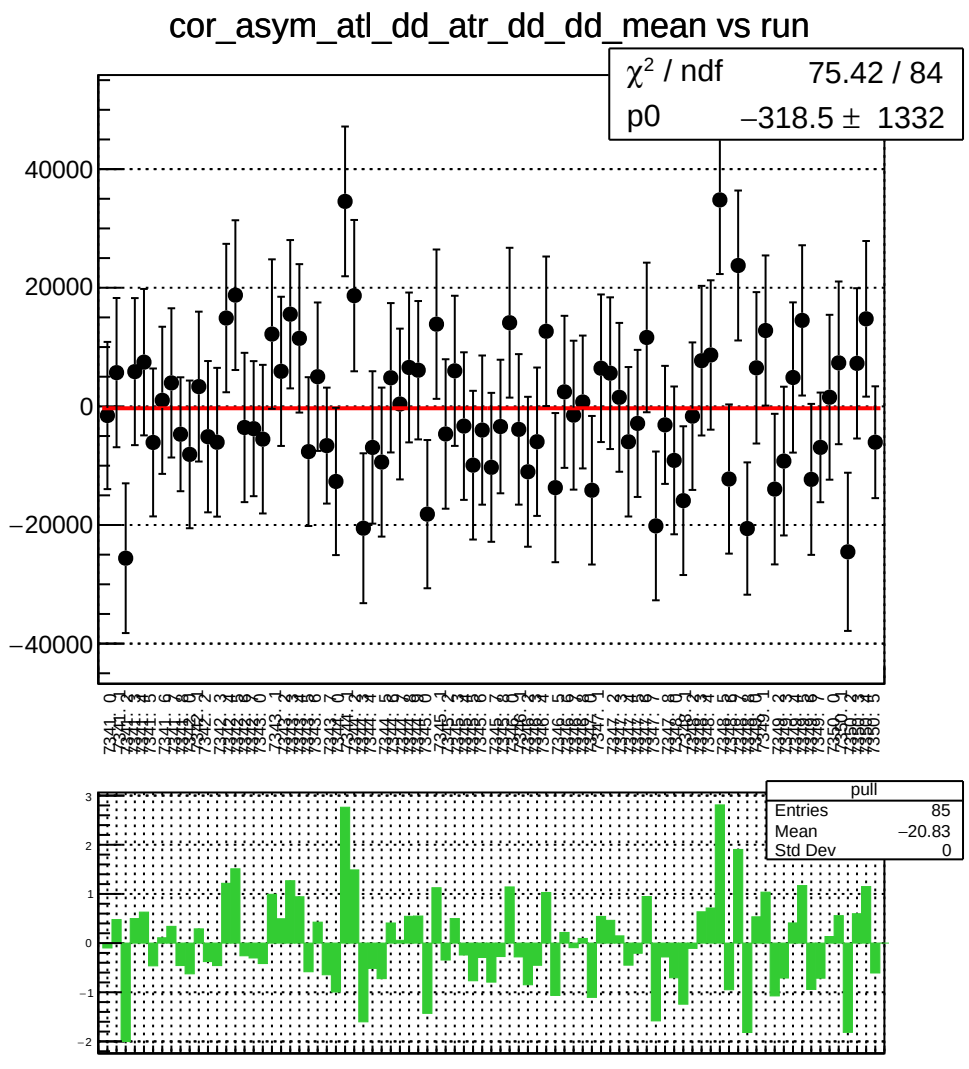

pull1D
Entries 85
Mean 0.01372
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

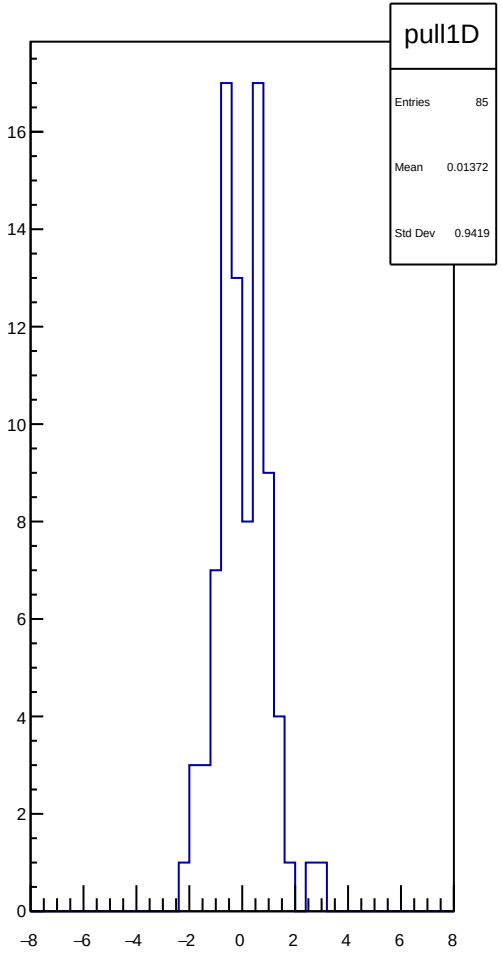

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 456.1 / 84
p0 1197 ± 0.9415
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

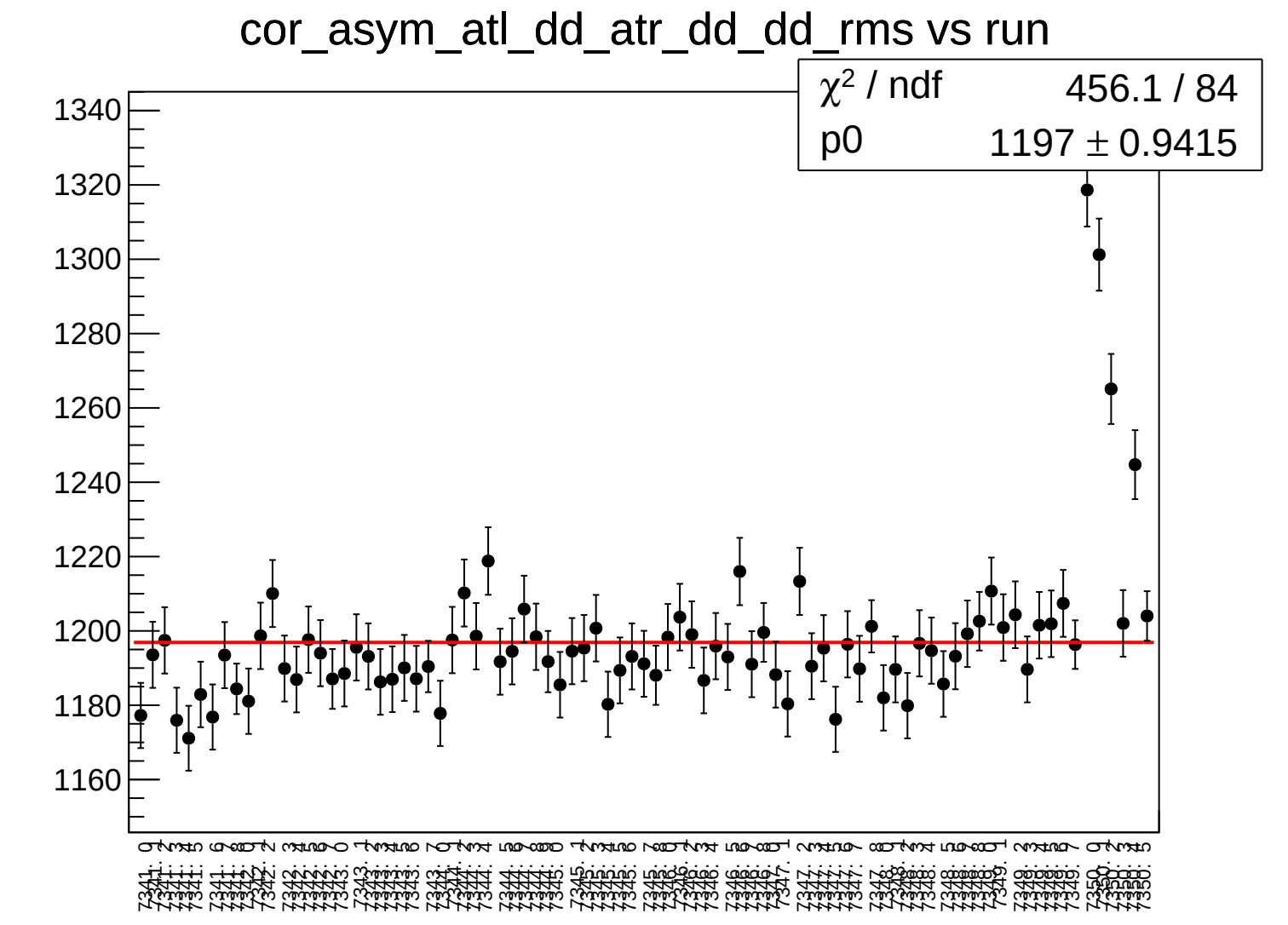

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 83.51 / 84
p0 473.8 ± 589.2
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −421.3
Std Dev 0
2
1
0
−1
−2
−3

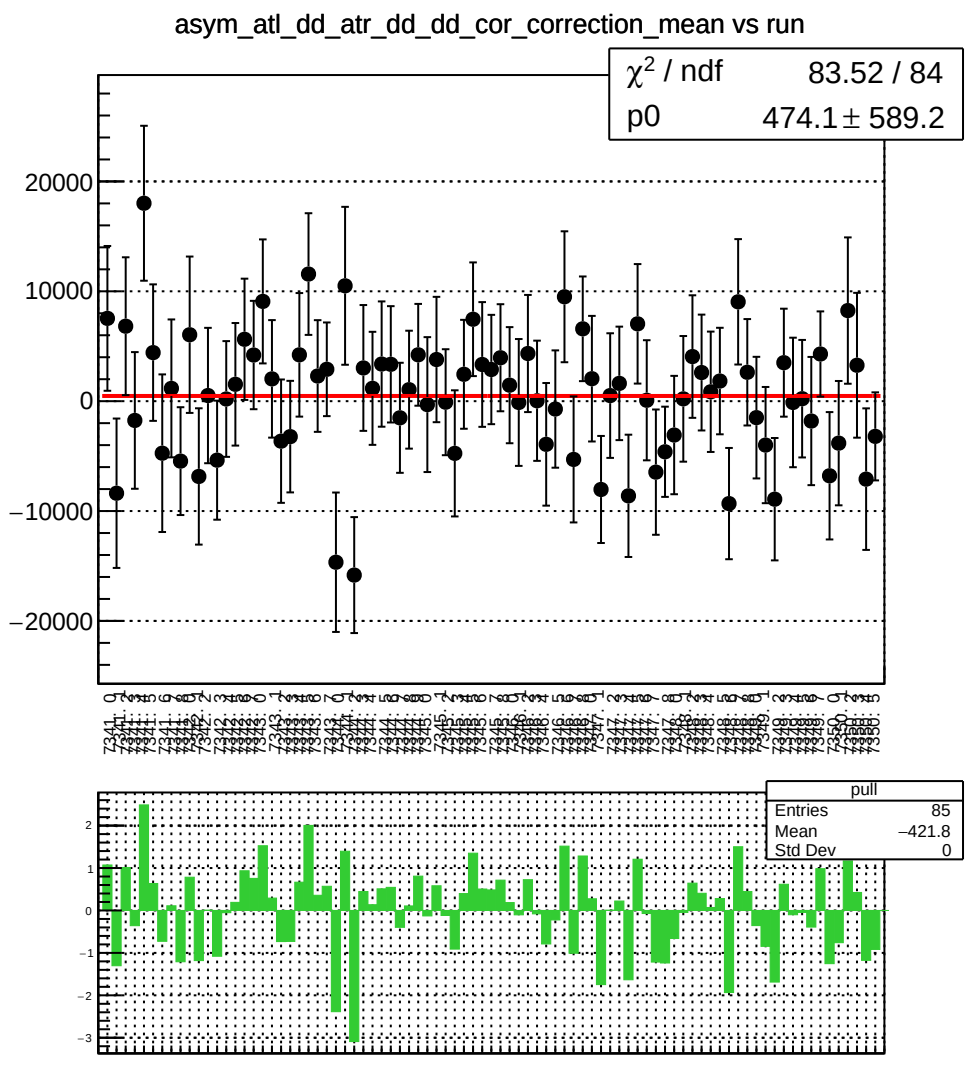

pull1D
Entries 85
Mean 0.00777
Std Dev 0.9912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

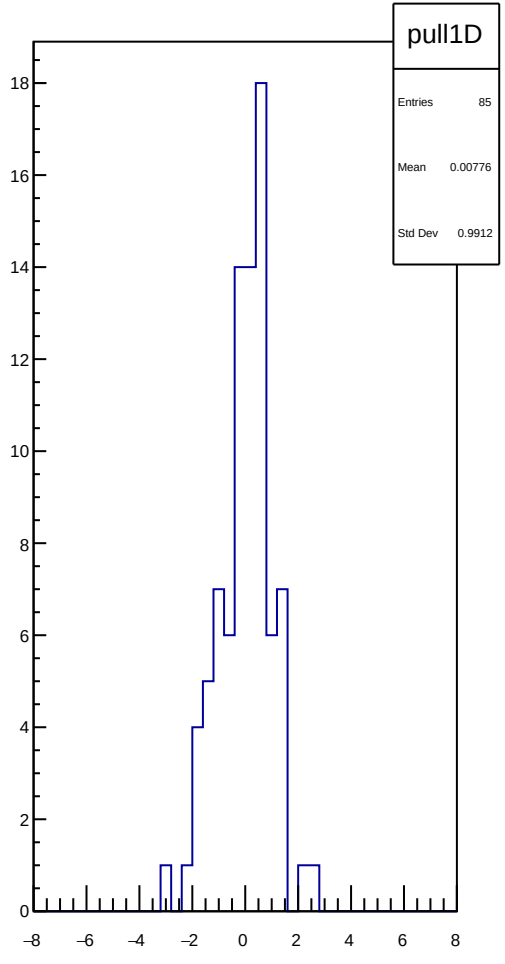

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.246e+04 / 84
p0 527.6 ± 0.4166
700
650
600
550
500
450

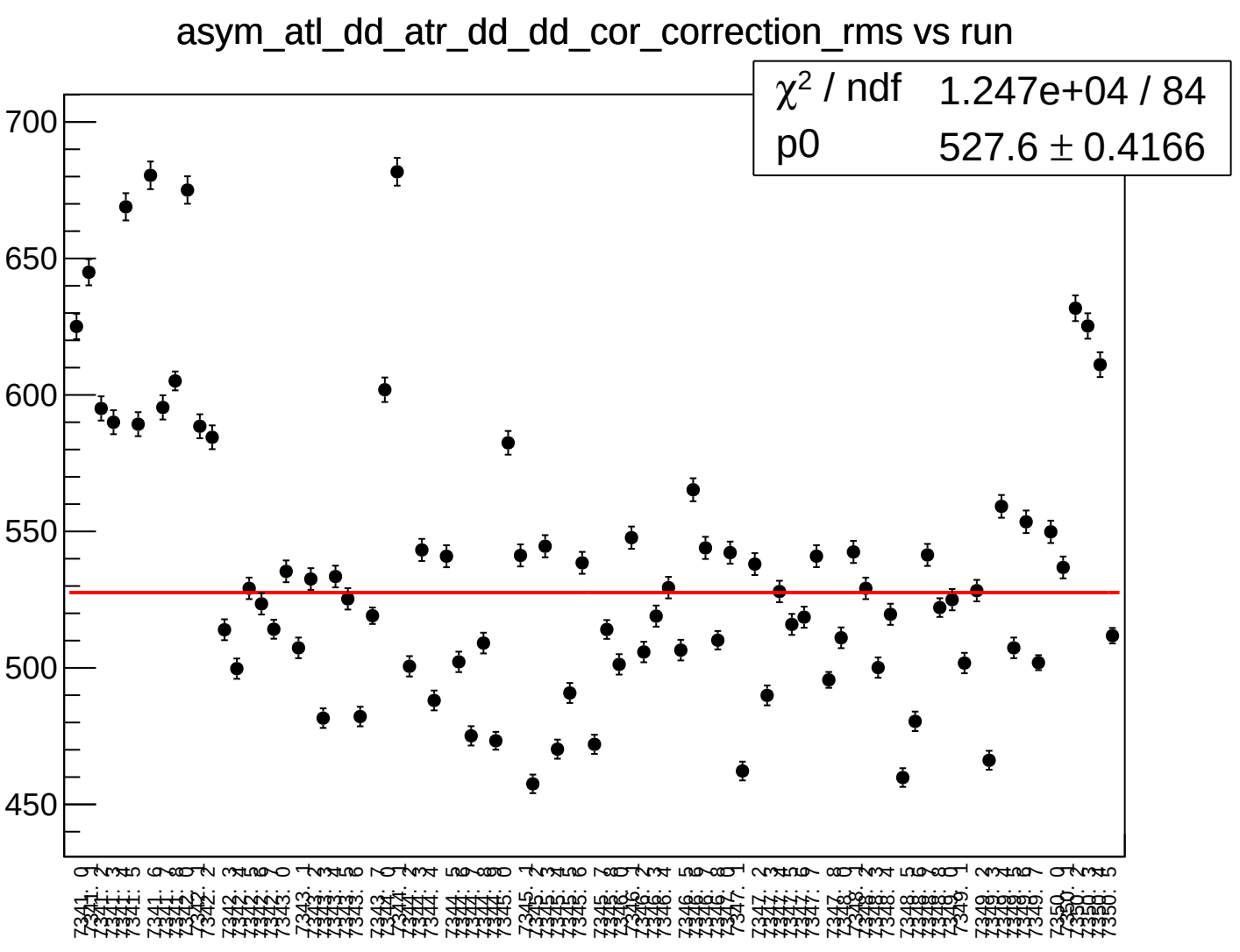

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 75.42 / 84
p0 −318.5 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −20.83
Std Dev 0
3
2
1
0
−1
−2

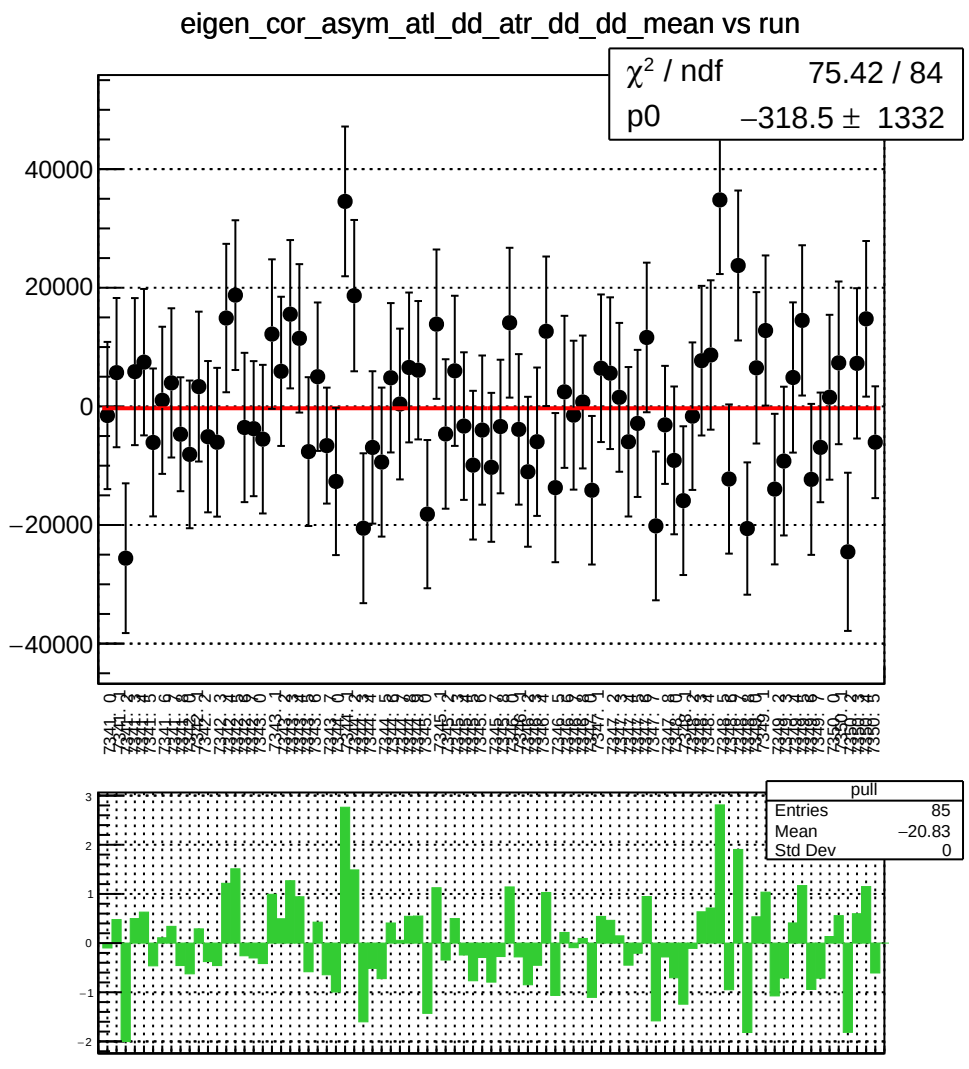

pull1D
Entries 85
Mean 0.01372
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

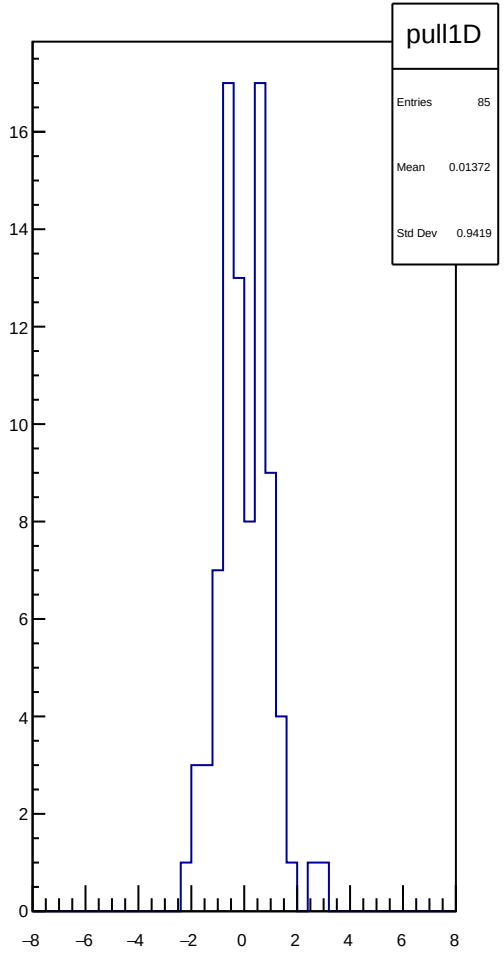

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 456.1 / 84
p0 1197 ± 0.9415
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

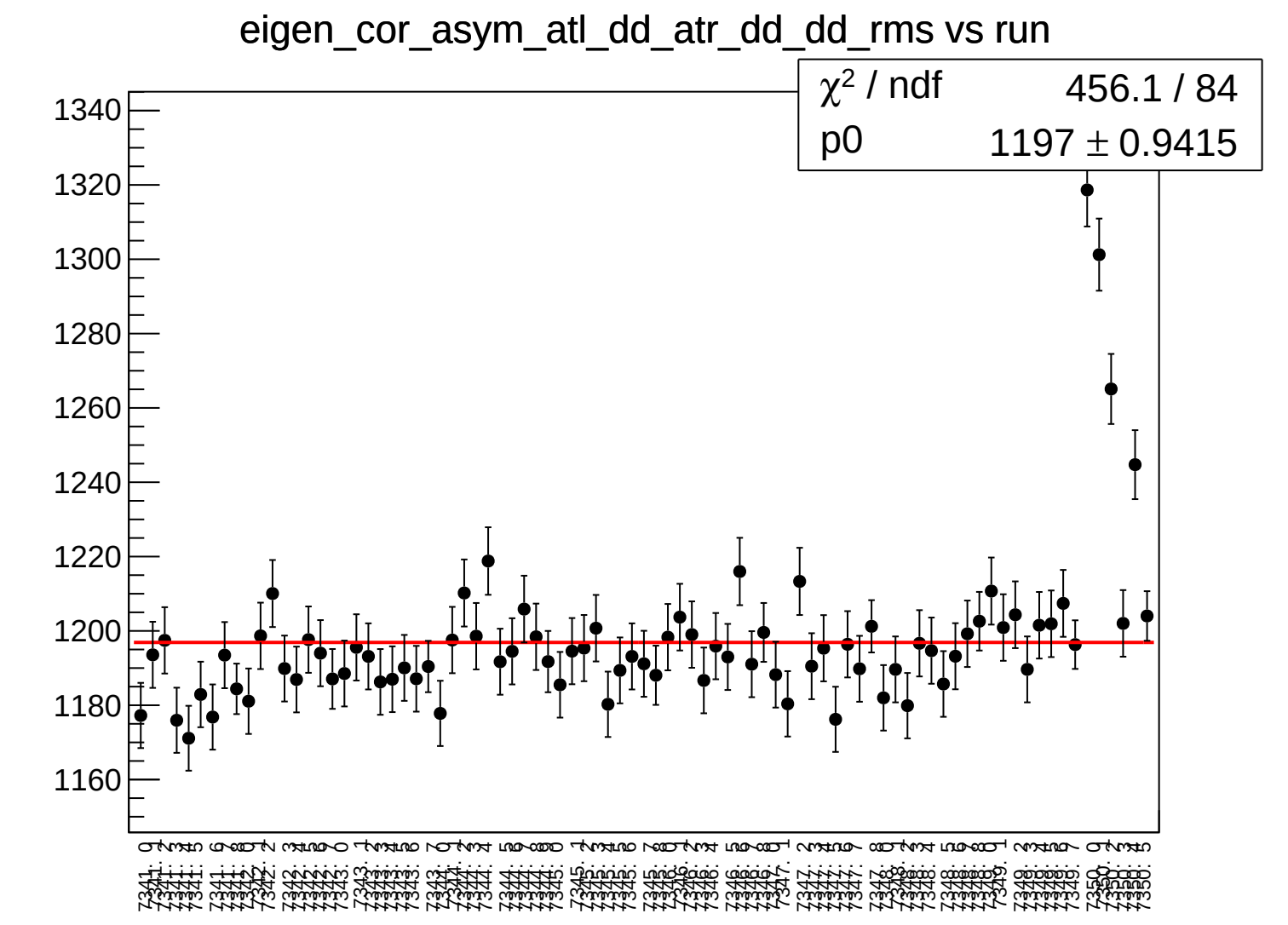

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 83.52 / 84
p0 474.1 ± 589.2
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −421.8
Std Dev 0
2
1
0
−1
−2
−3

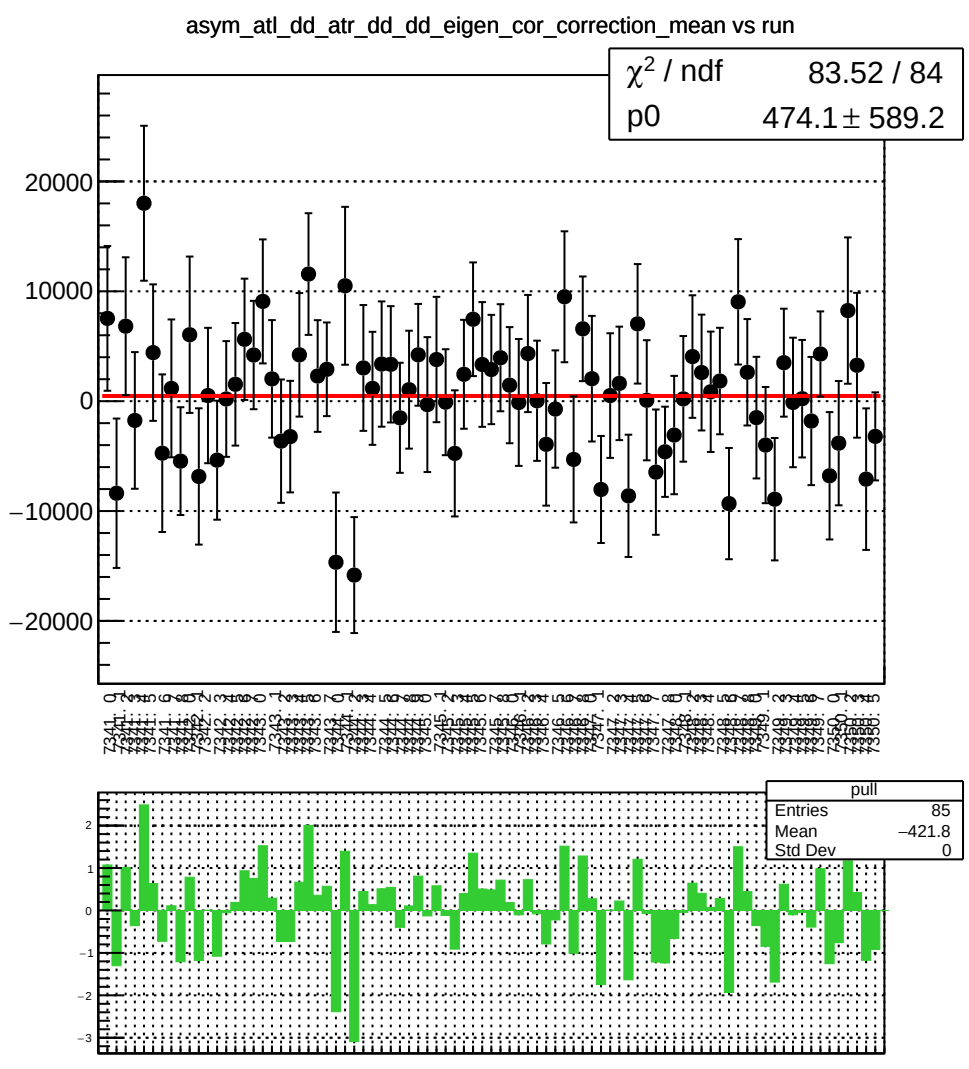

pull1D
Entries 85
Mean 0.00776
Std Dev 0.9912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

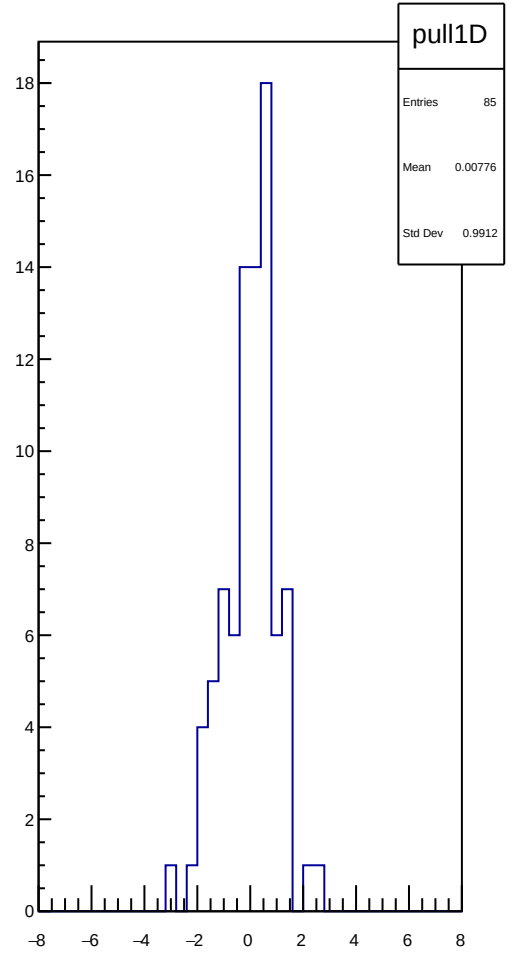

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.247e+04 / 84
p0 527.6 ± 0.4166
700
650
600
550
500
450

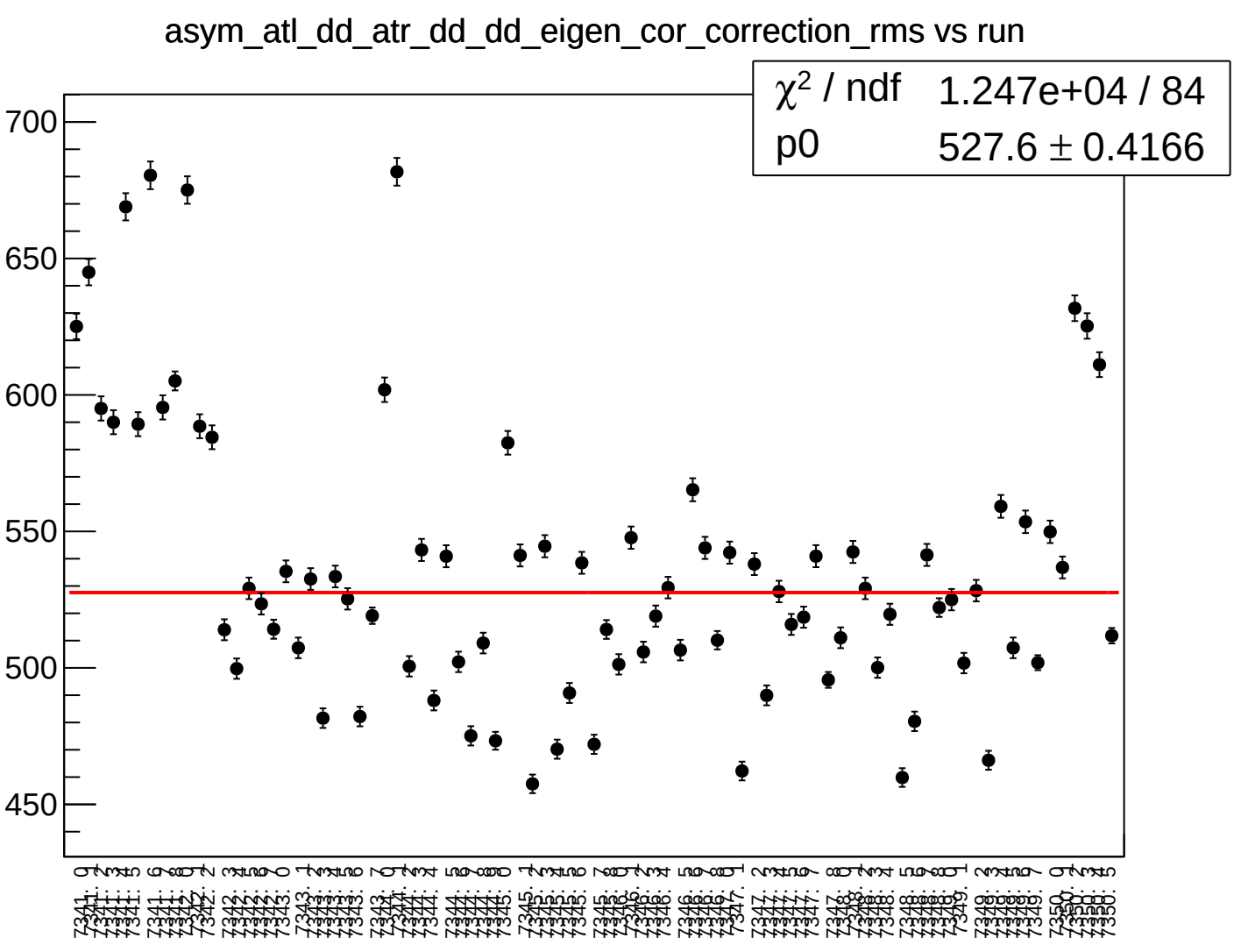

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 75.42 / 84
p0 −318.5 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −20.83
Std Dev 0
3
2
1
0
−1
−2

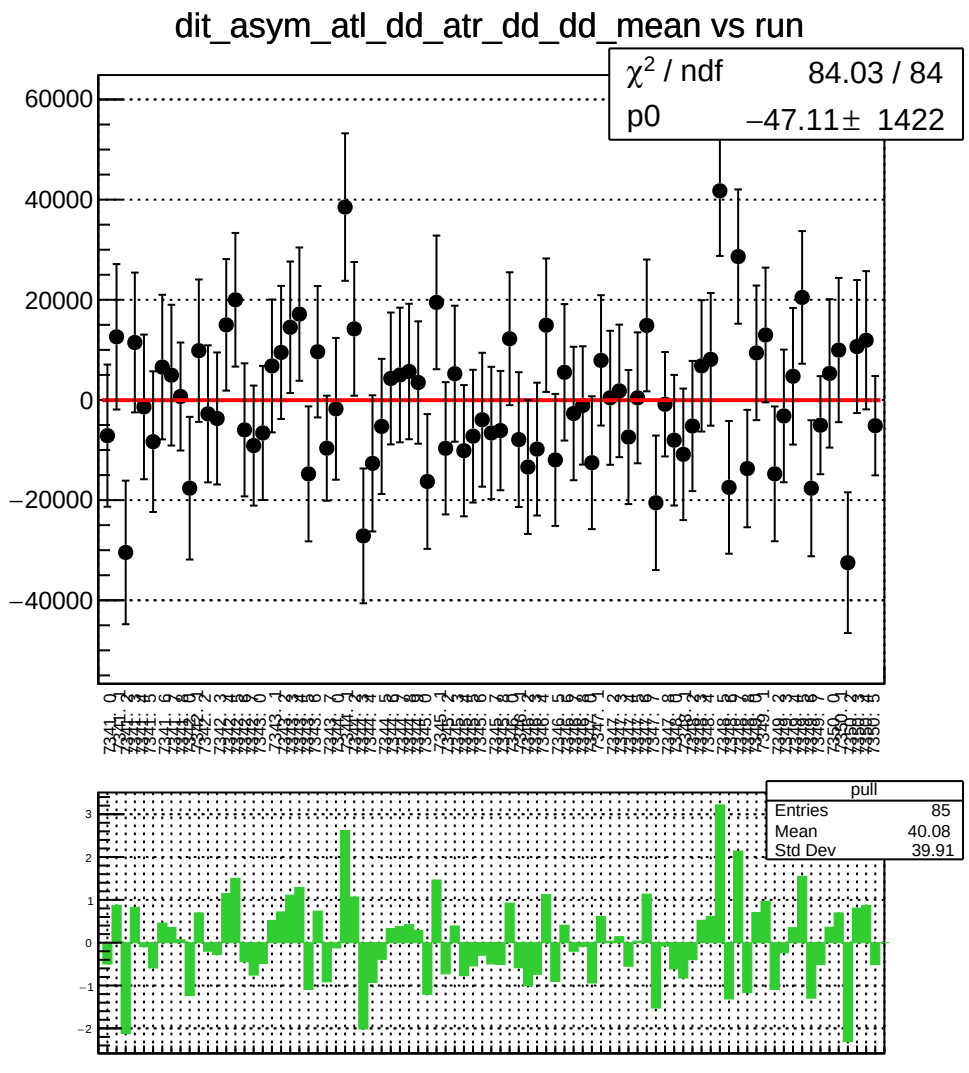

pull1D
Entries 85
Mean 0.01372
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

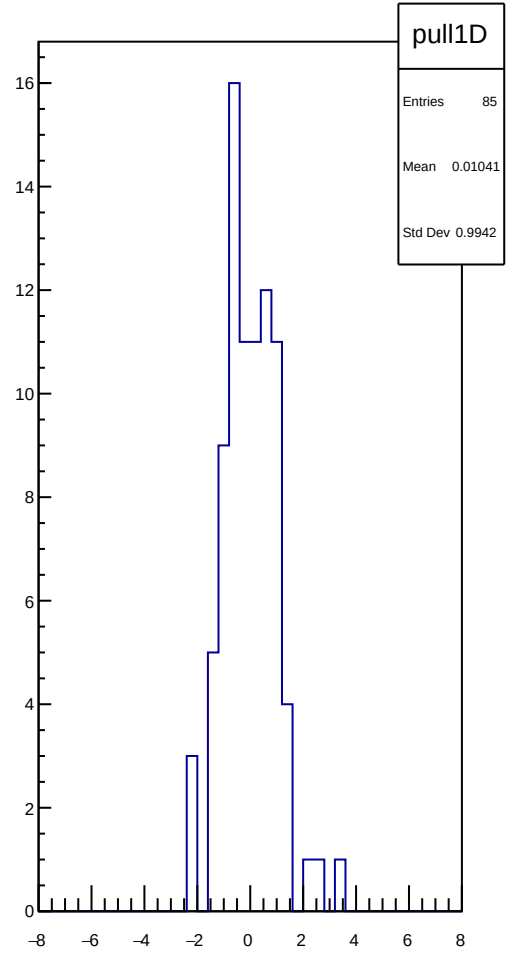

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 456.1 / 84
p0 1197 ± 0.9415
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

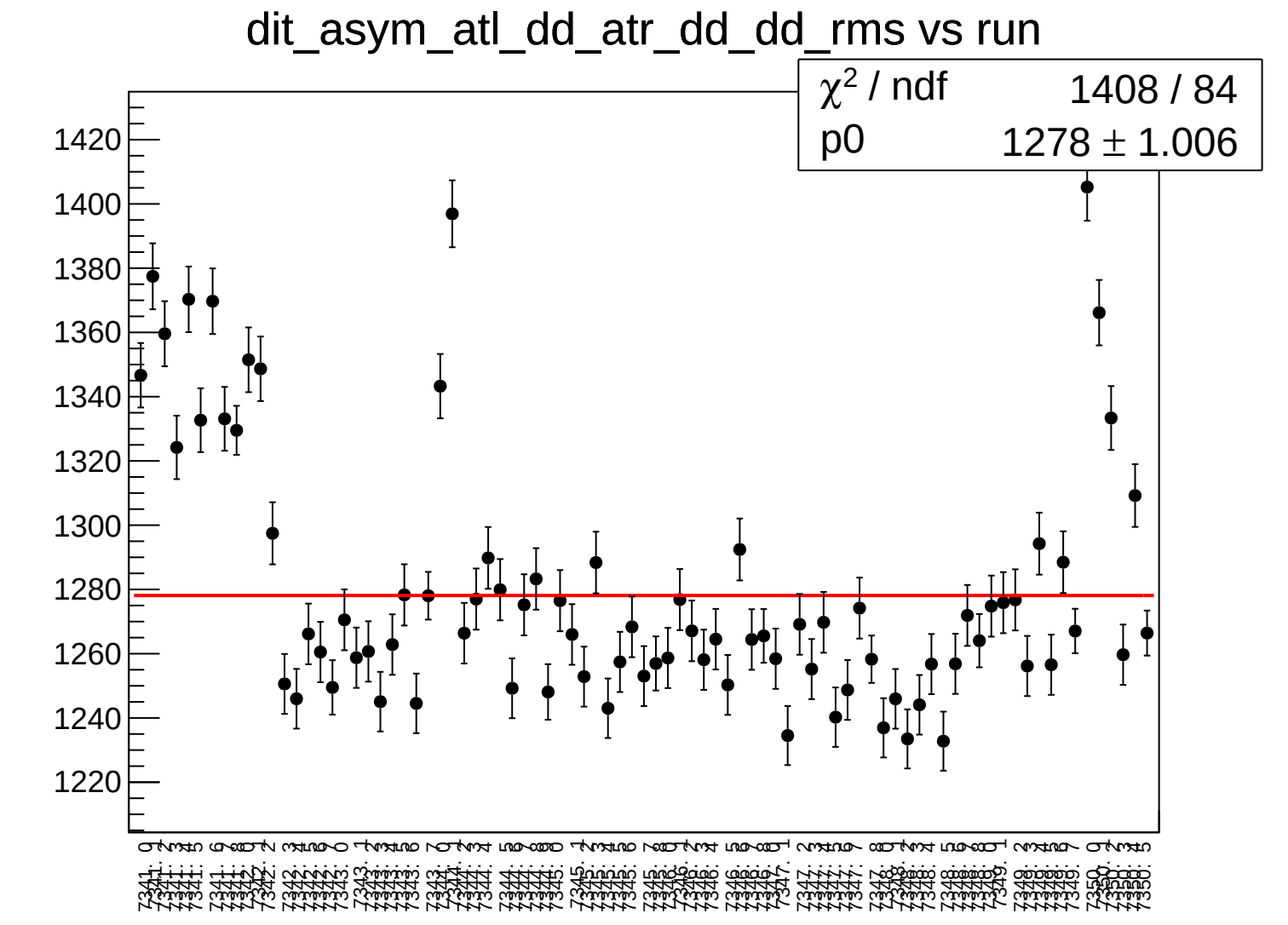

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.52 / 84
p0 474.1 ± 589.2
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −421.8
Std Dev 0
2
1
0
−1
−2
−3

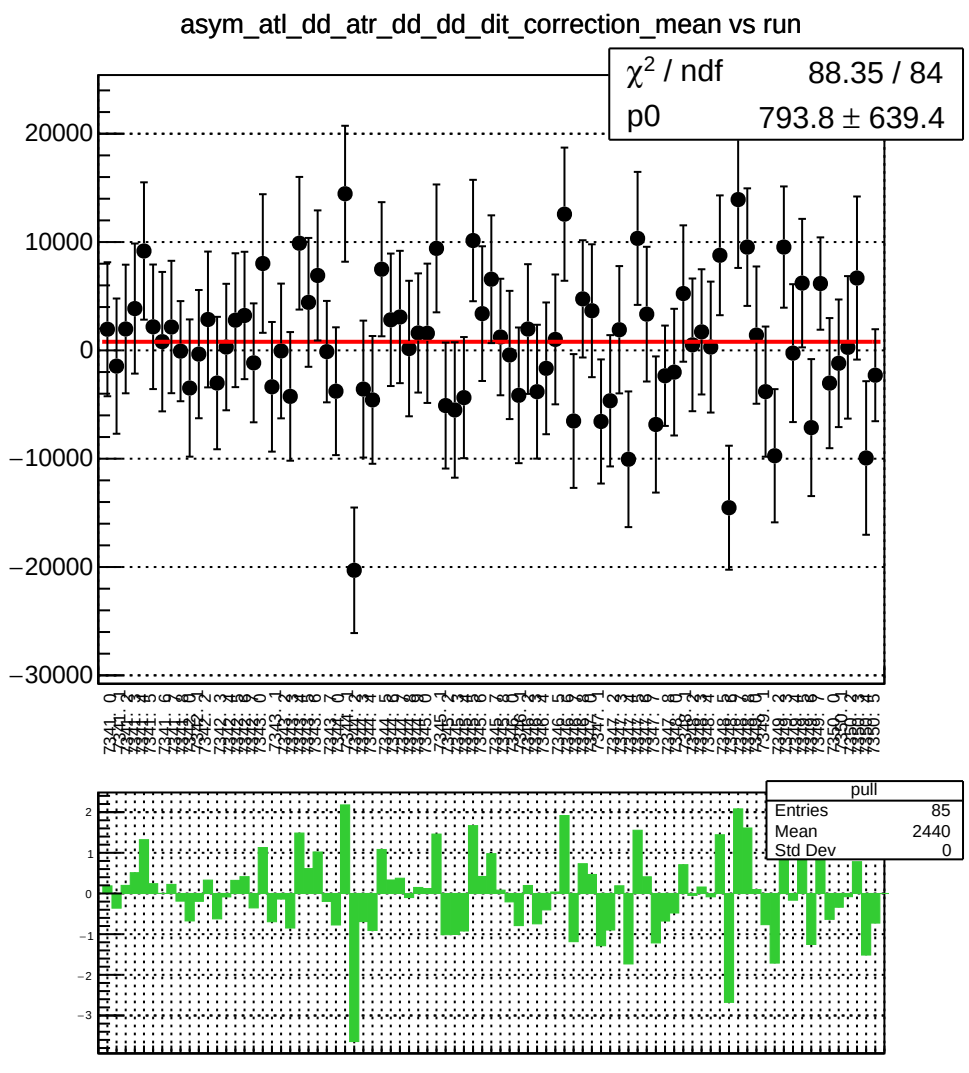

pull1D
Entries 85
Mean 0.00776
Std Dev 0.9912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

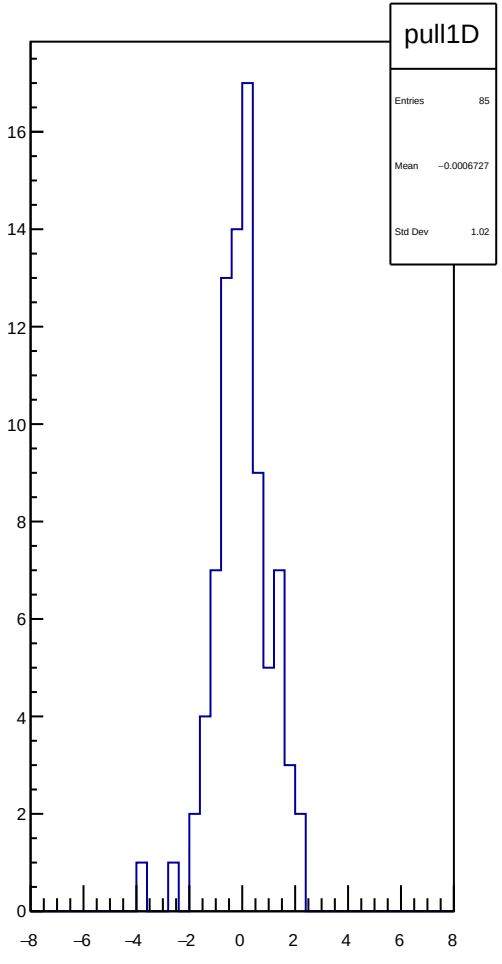

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.247e+04 / 84
p0 527.6 ± 0.4166
700
650
600
550
500
450

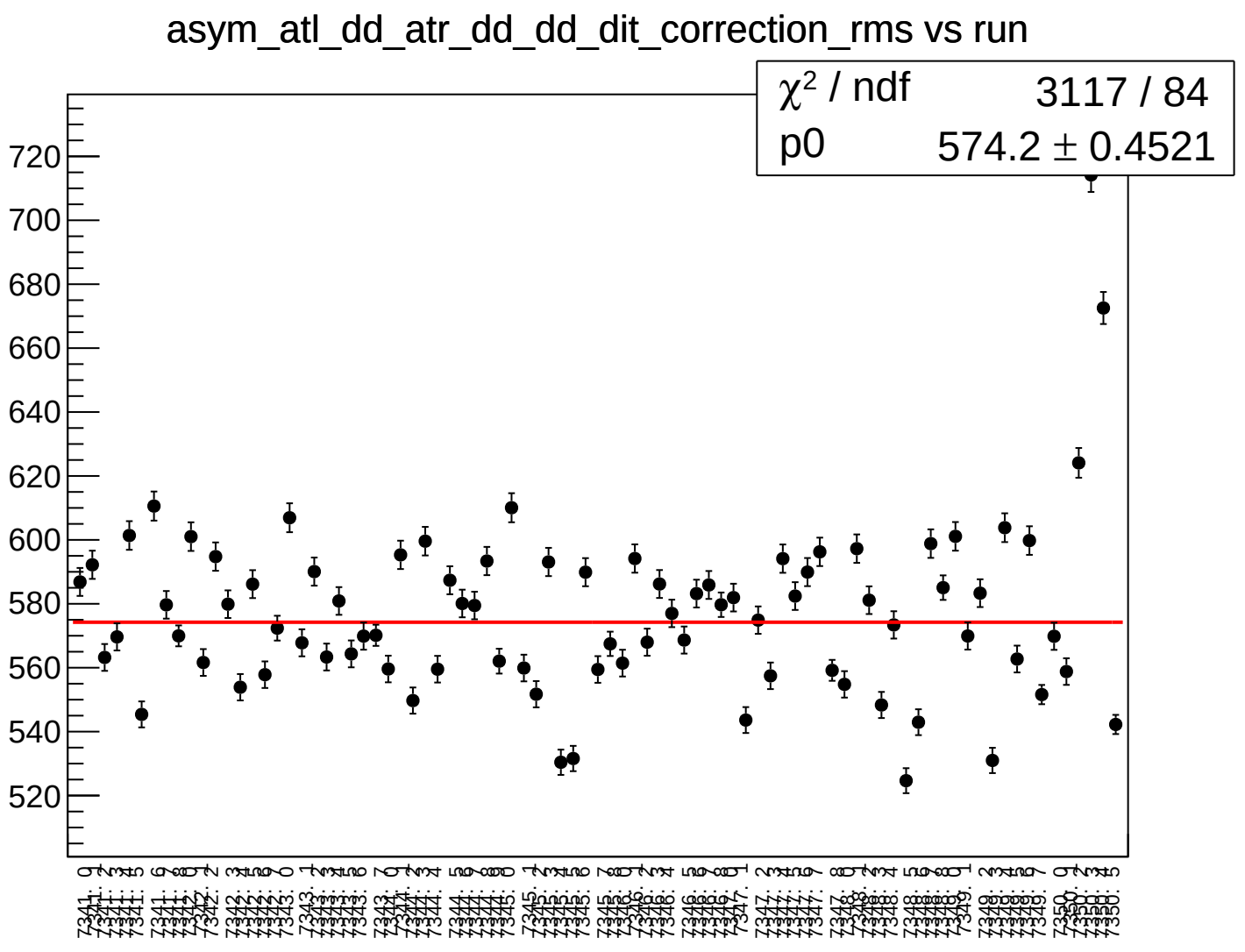

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.03 / 84
p0 −47.11± 1422
pull
Entries 85
Mean 40.08
Std Dev 39.91

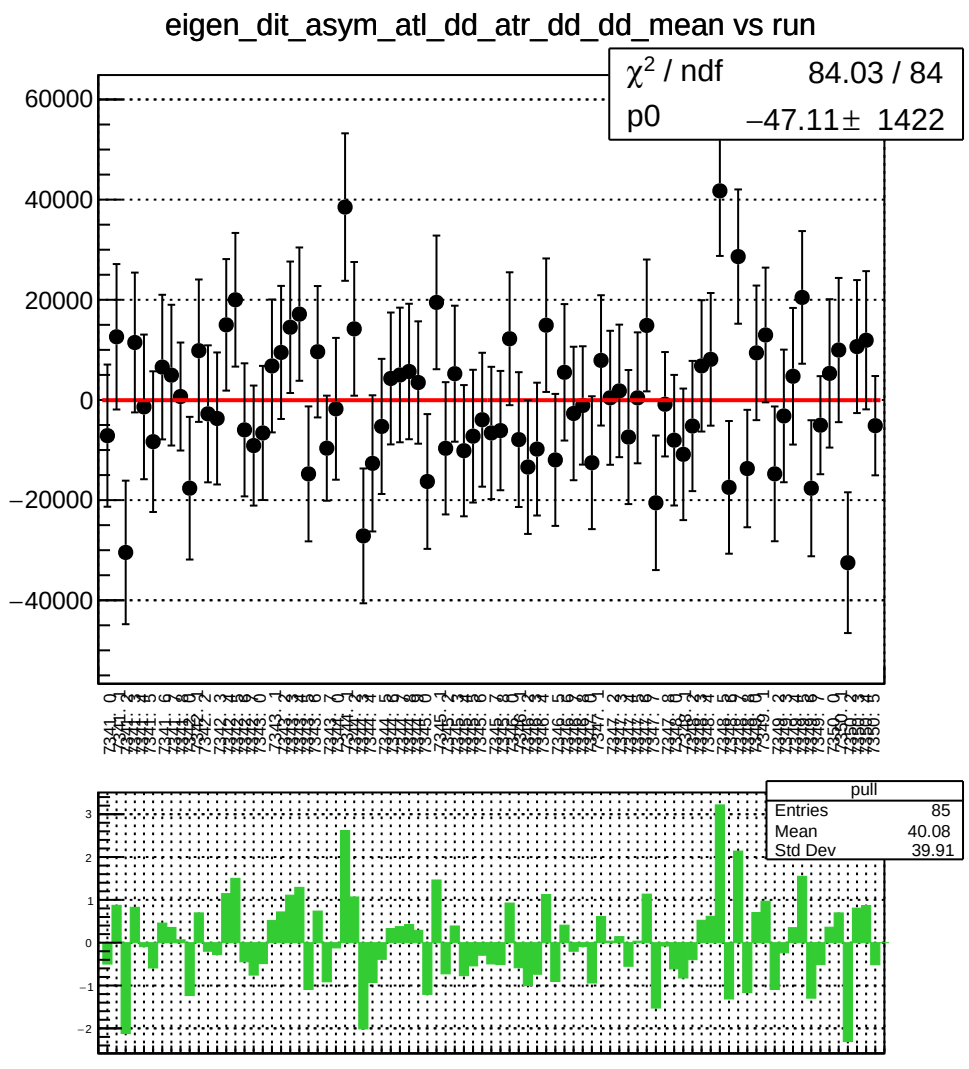

pull1D
Entries 85
Mean 0.01041
Std Dev 0.9942

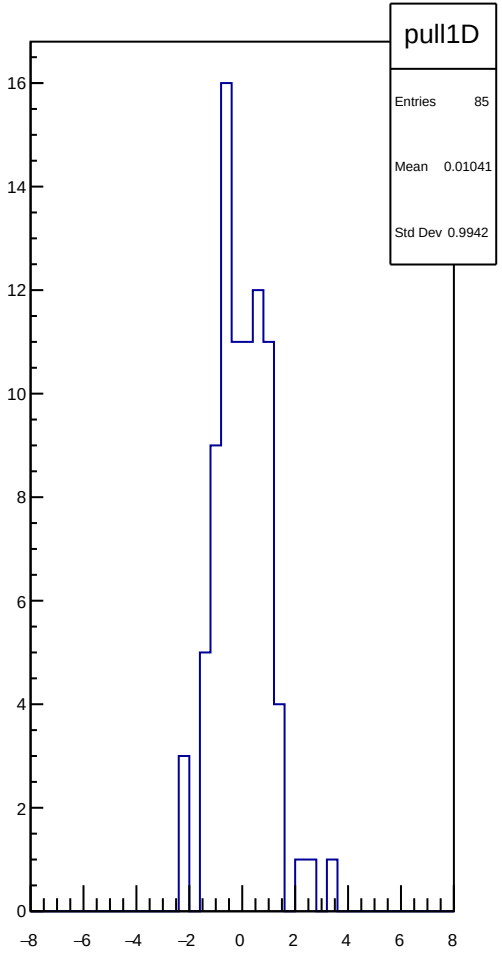

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1408 / 84
p0 1278 ± 1.006
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

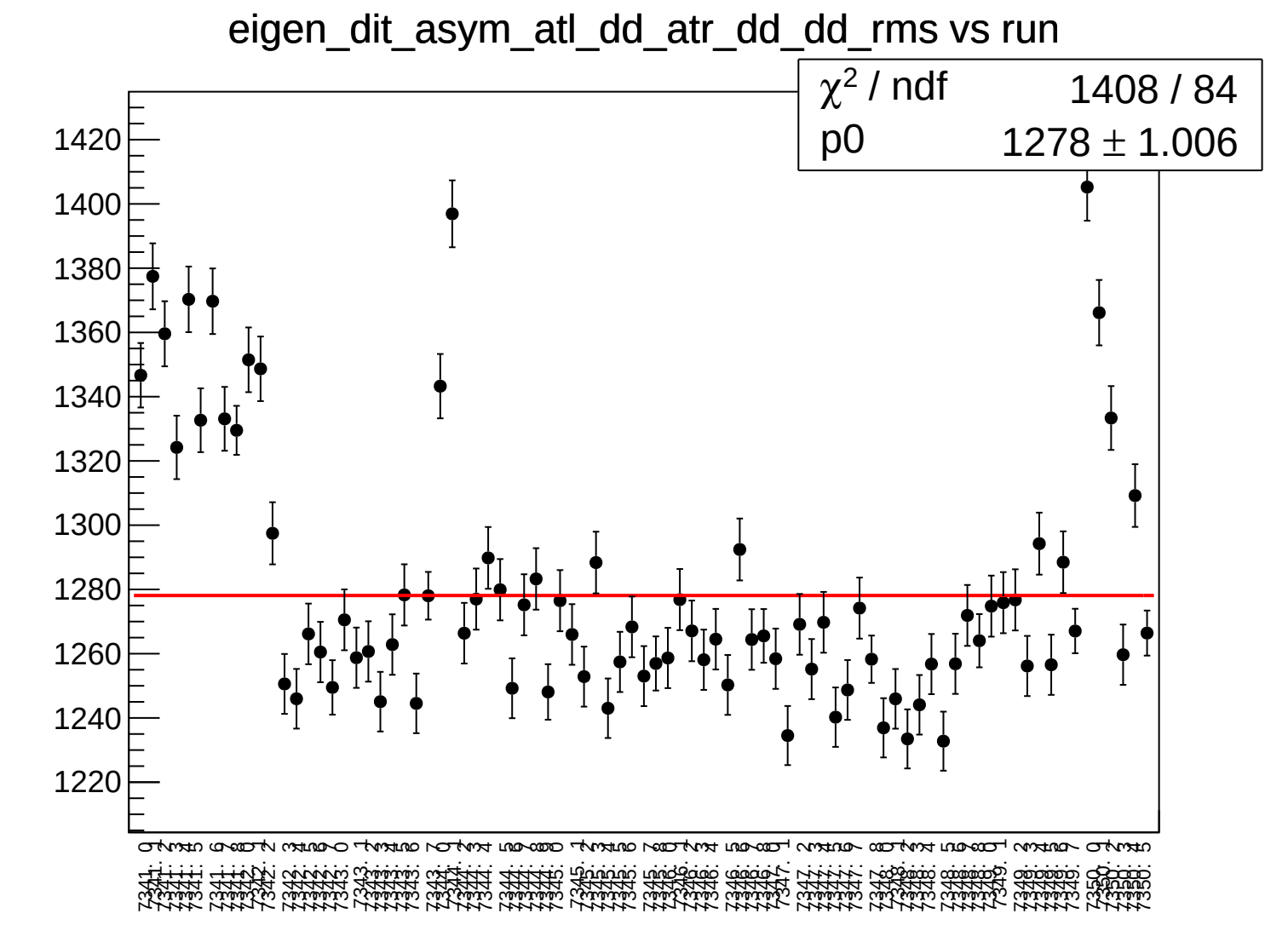

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 88.35 / 84
p0 793.8 ± 639.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 2440
Std Dev 0
2
1
0
−1
−2
−3

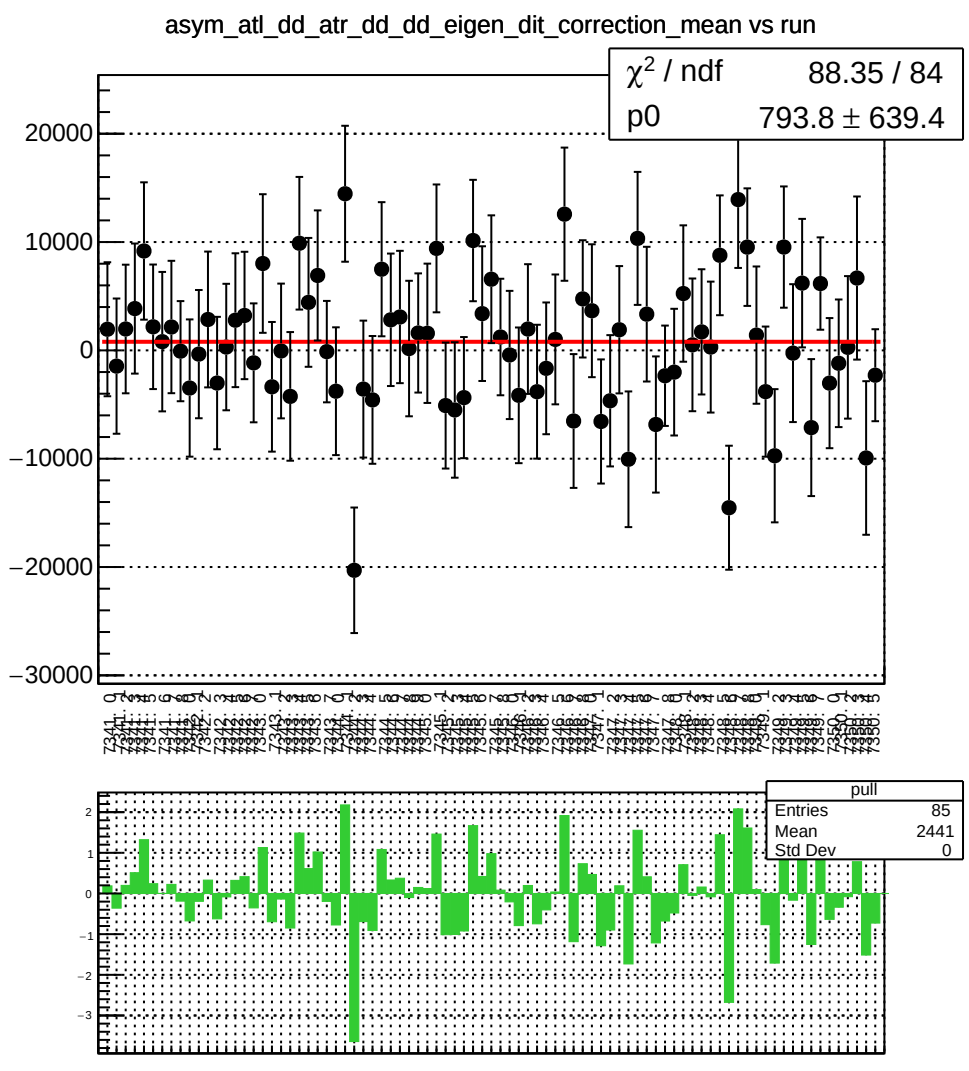

pull1D
Entries 85
Mean −0.0006727
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

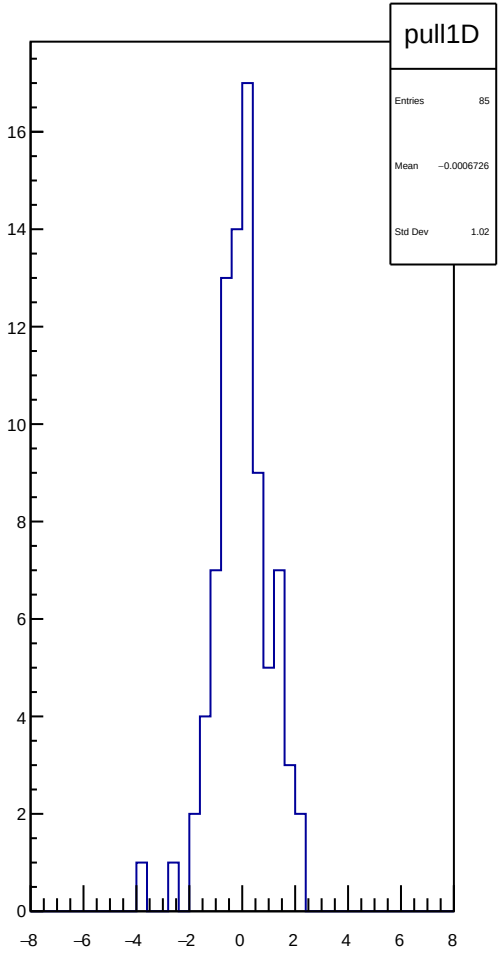

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 3117 / 84
p0 574.2 ± 0.4521
720
700
680
660
640
620
600
580
560
540
520

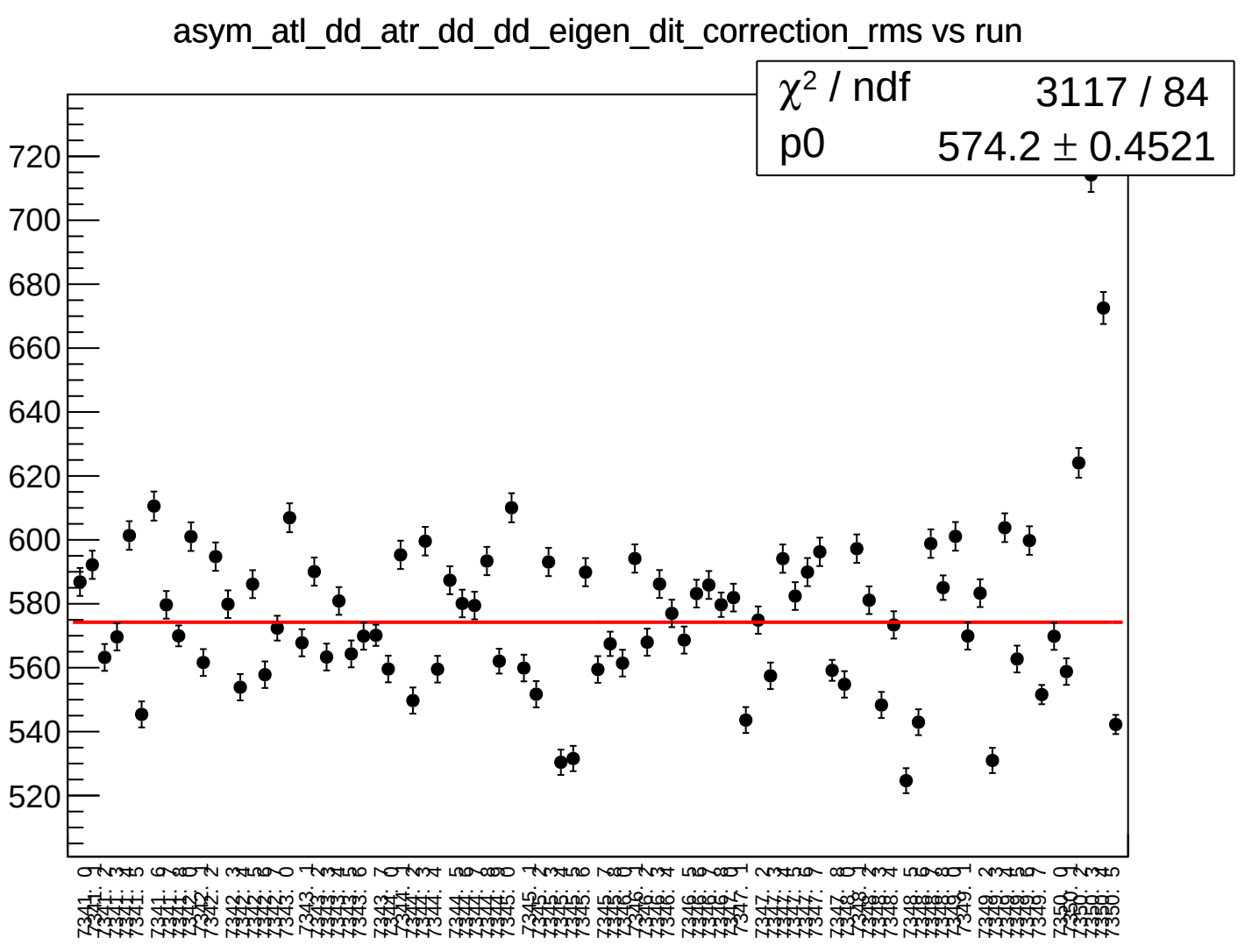

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.03 / 84
p0 −47.11± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 40.08
Std Dev 39.91
3
2
1
0
−1
−2

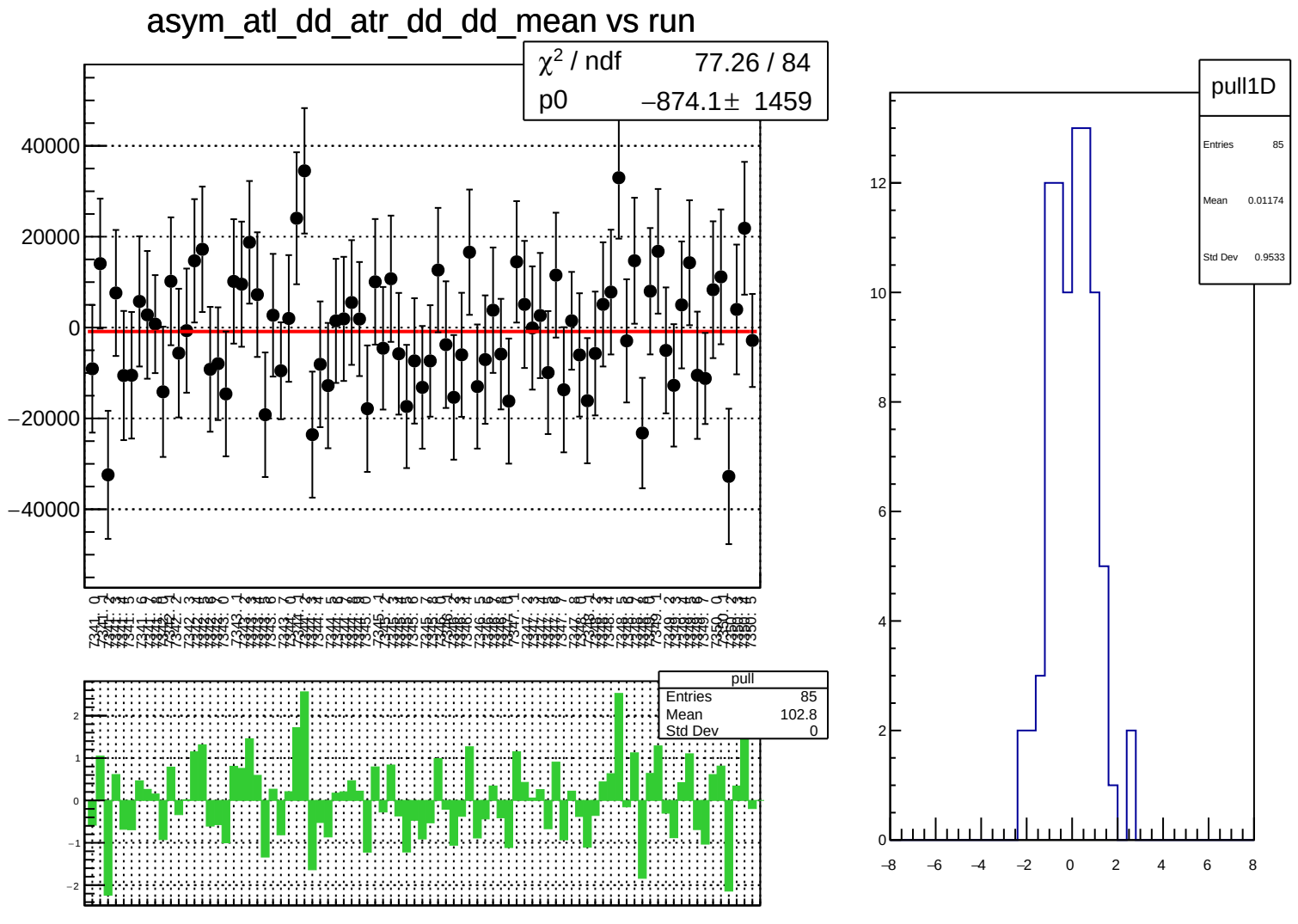

pull1D
Entries 85
Mean 0.01041
Std Dev 0.9942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

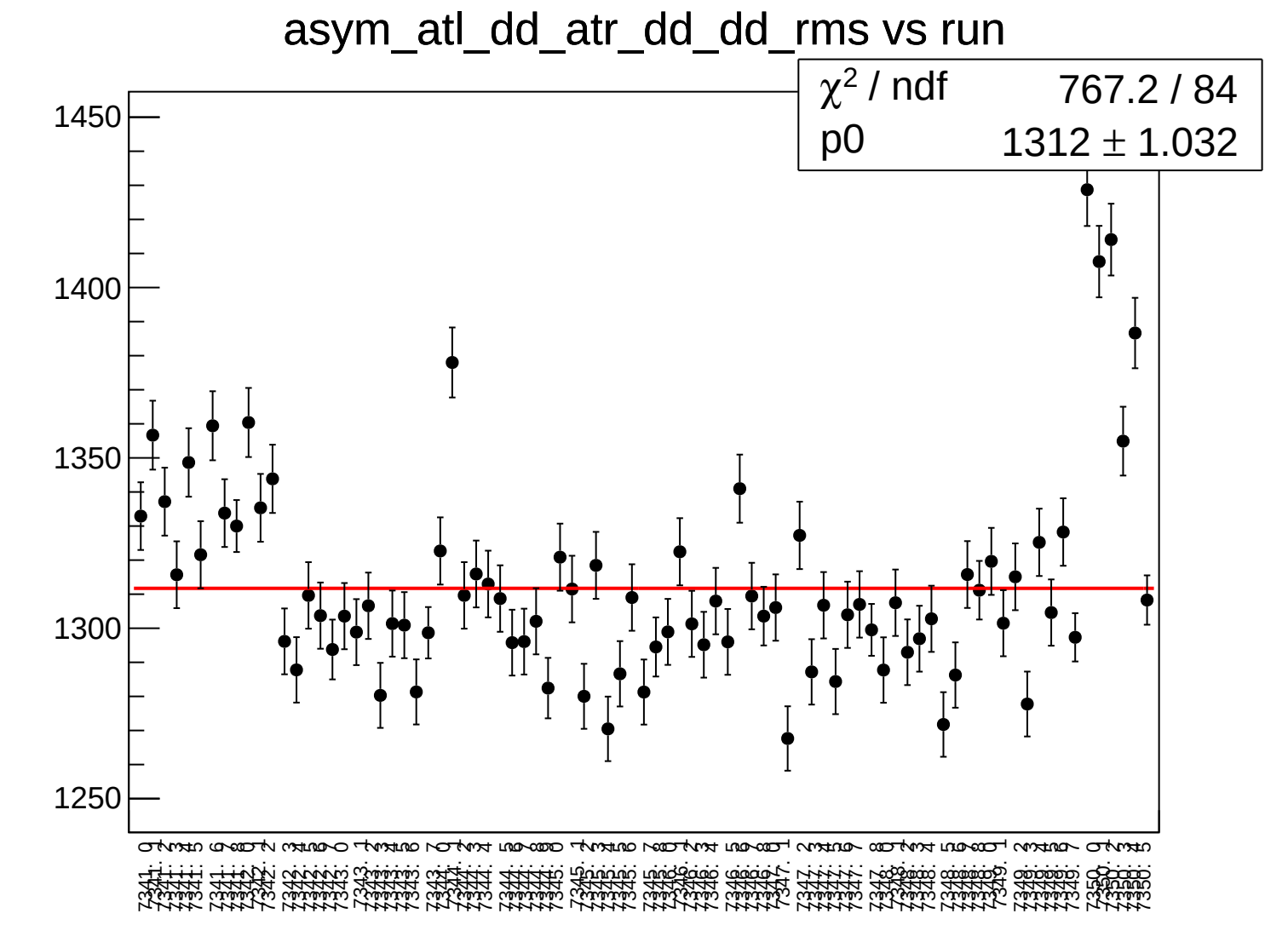

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1408 / 84
p0 1278 ± 1.006
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

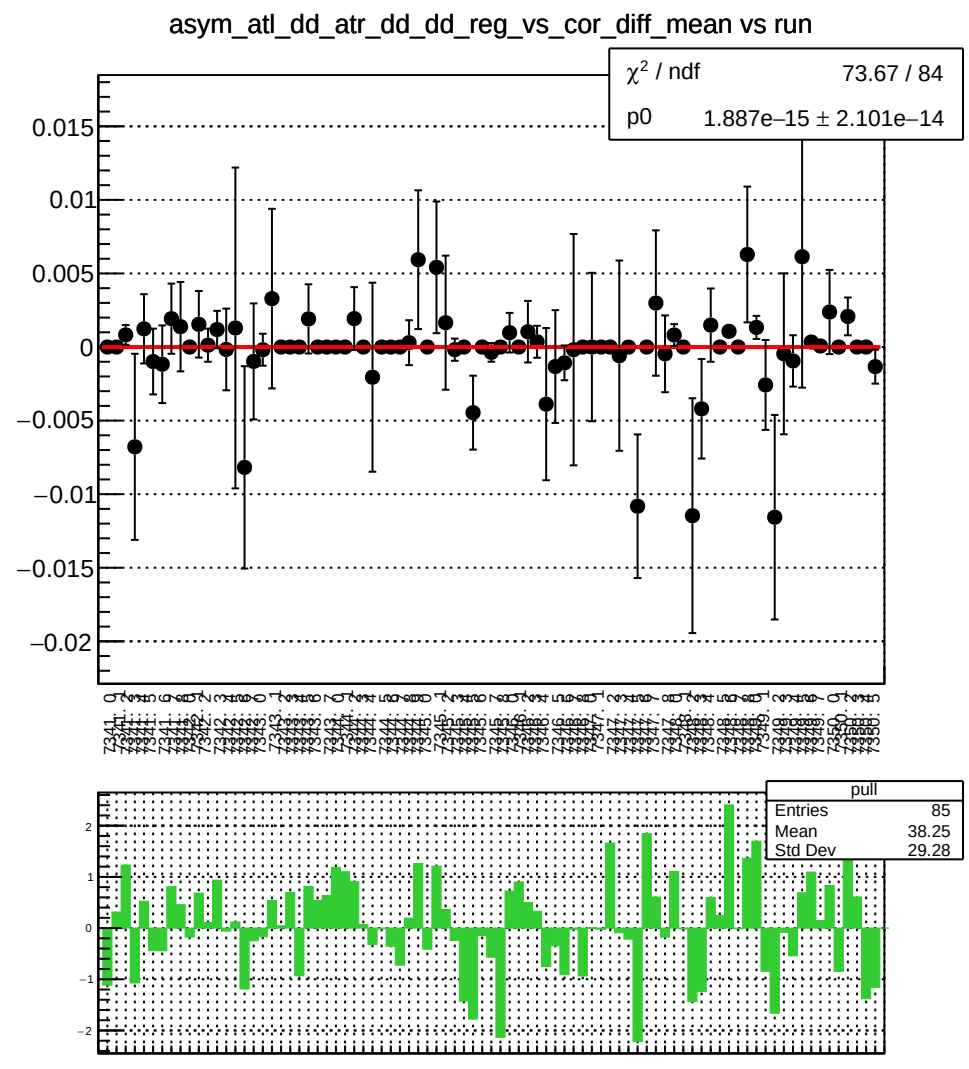

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.35 / 84
p0 793.8 ± 639.4
pull
Entries 85
Mean 2441
Std Dev 0

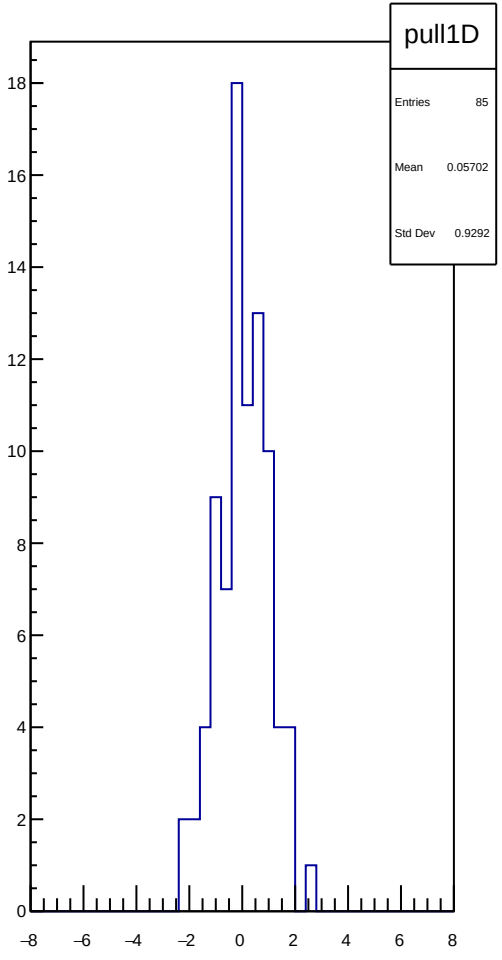

pull1D
Entries 85
Mean −0.0006726
Std Dev 1.02

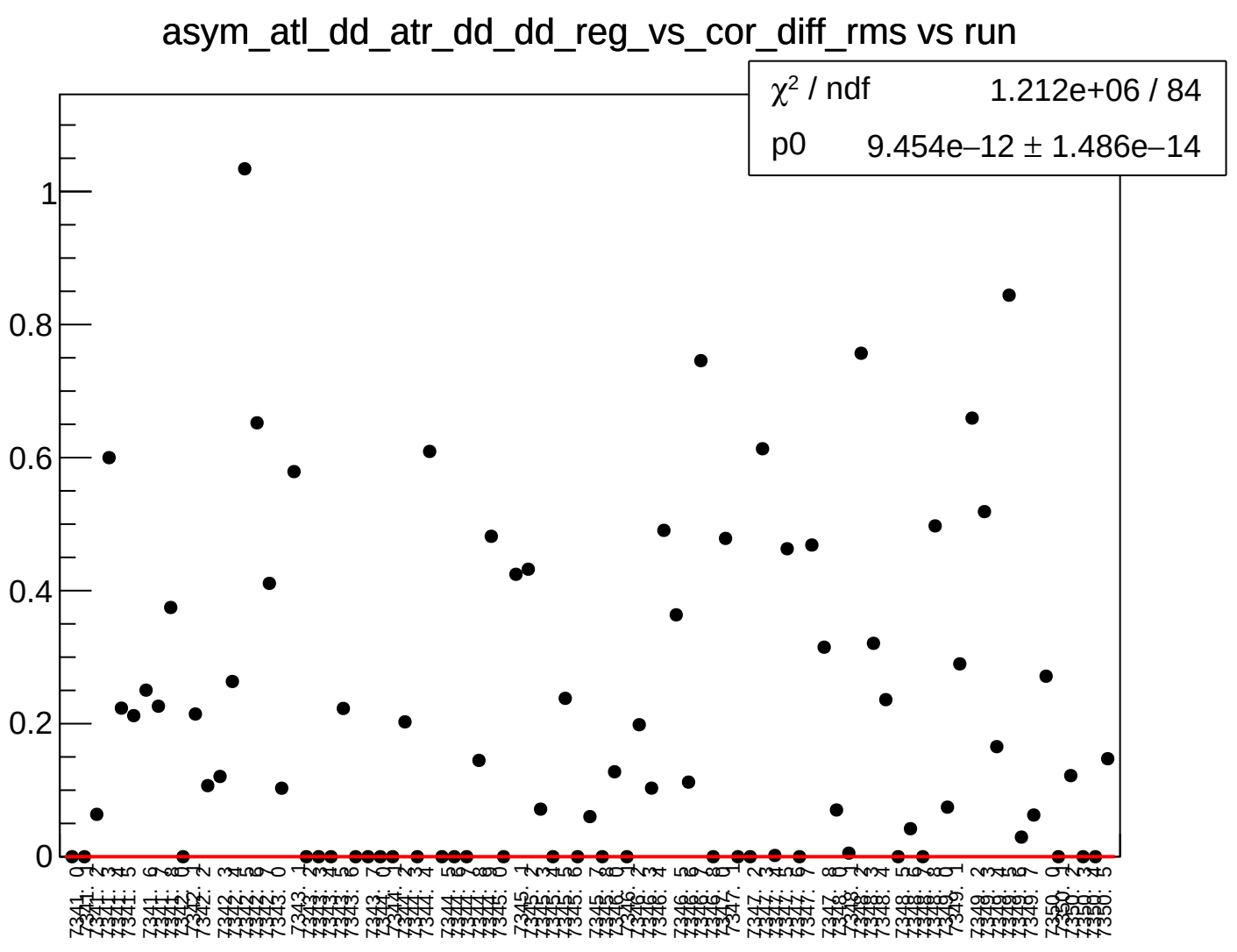

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3117 / 84
p0 574.2 ± 0.4521
720
700
680
660
640
620
600
580
560
540
520

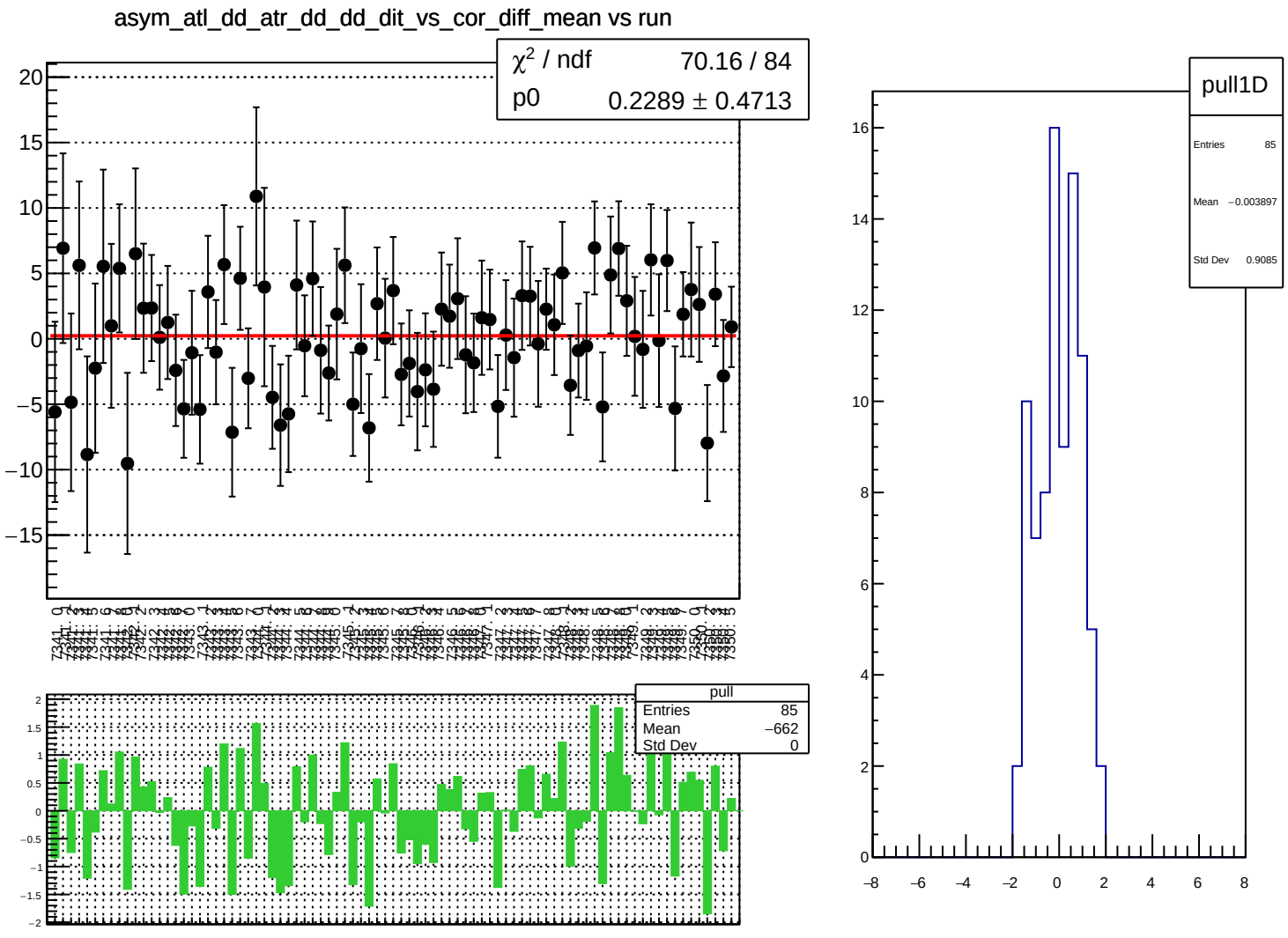

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 77.26 / 84
p0 −874.1± 1459
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 102.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01174
Std Dev 0.9533
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

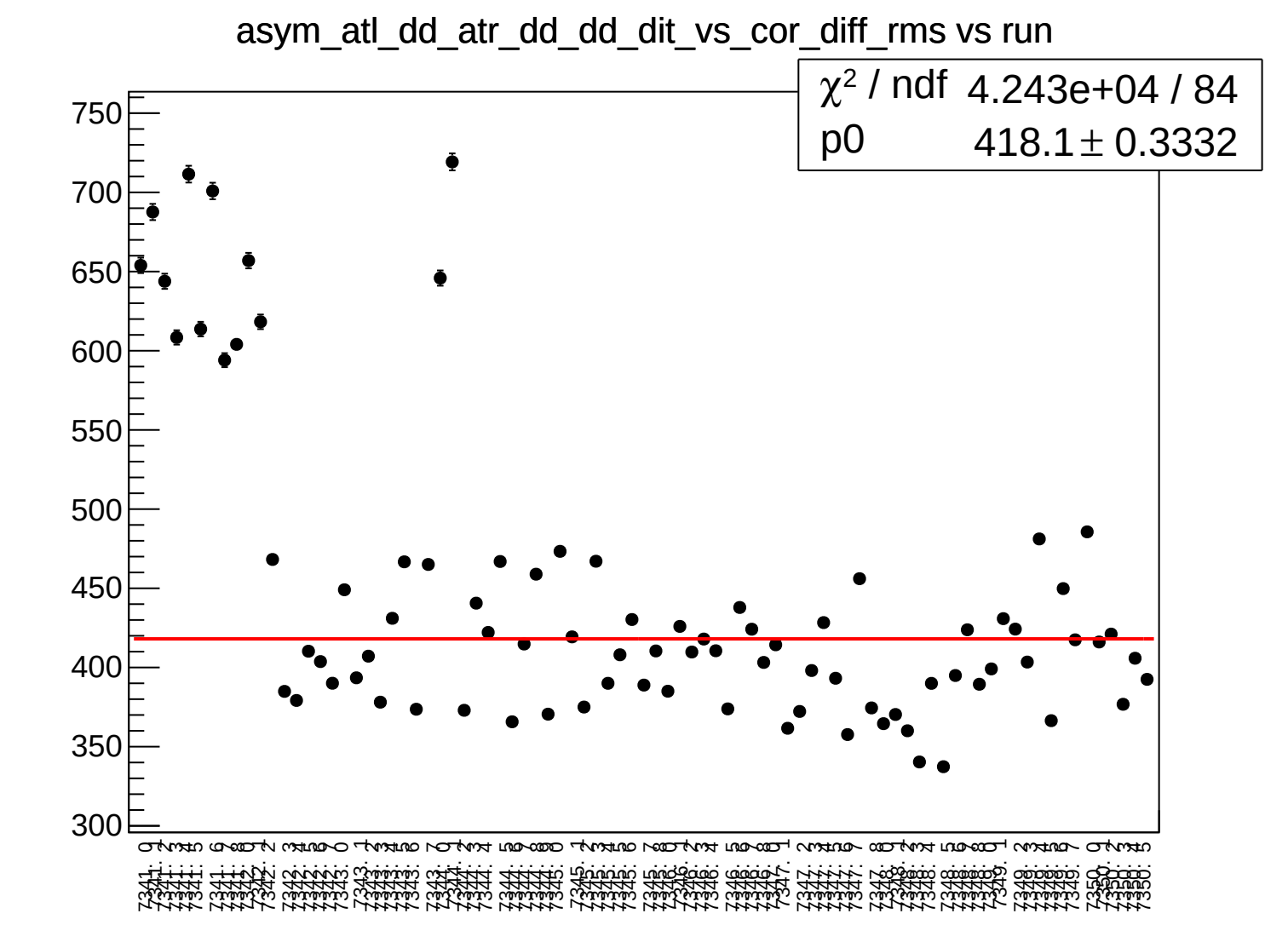

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 767.2 / 84
p0 1312 ± 1.032
1450
1400
1350
1300
1250

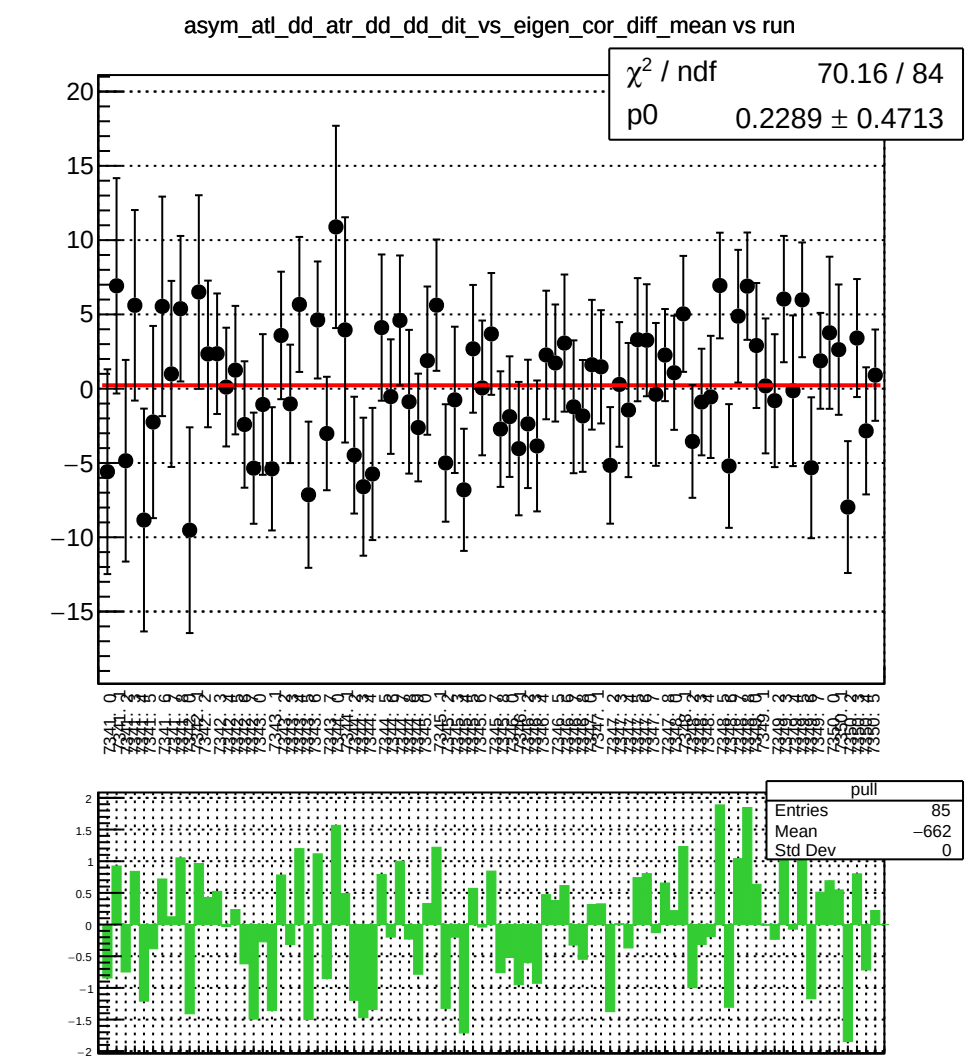

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.67 / 84
p0 1.887e−15 ± 2.101e−14
pull
Entries 85
Mean 38.25
Std Dev 29.28

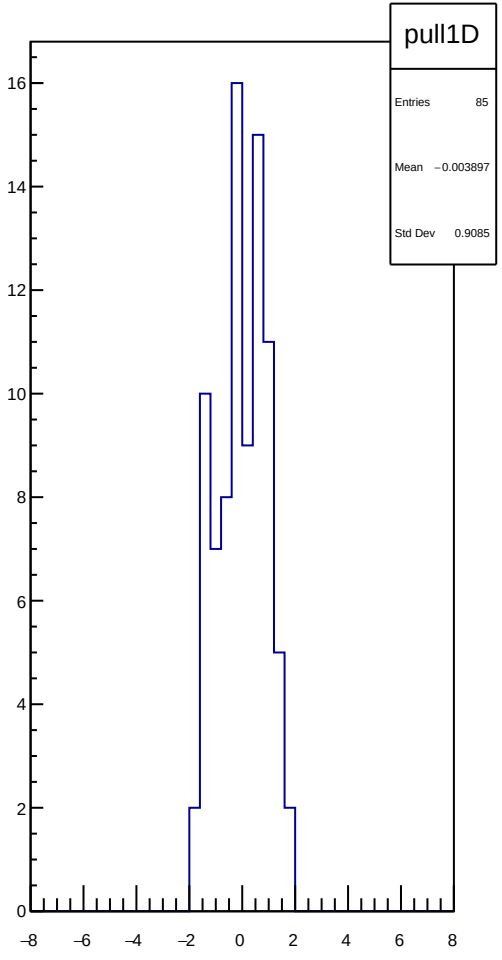

pull1D
Entries 85
Mean 0.05702
Std Dev 0.9292

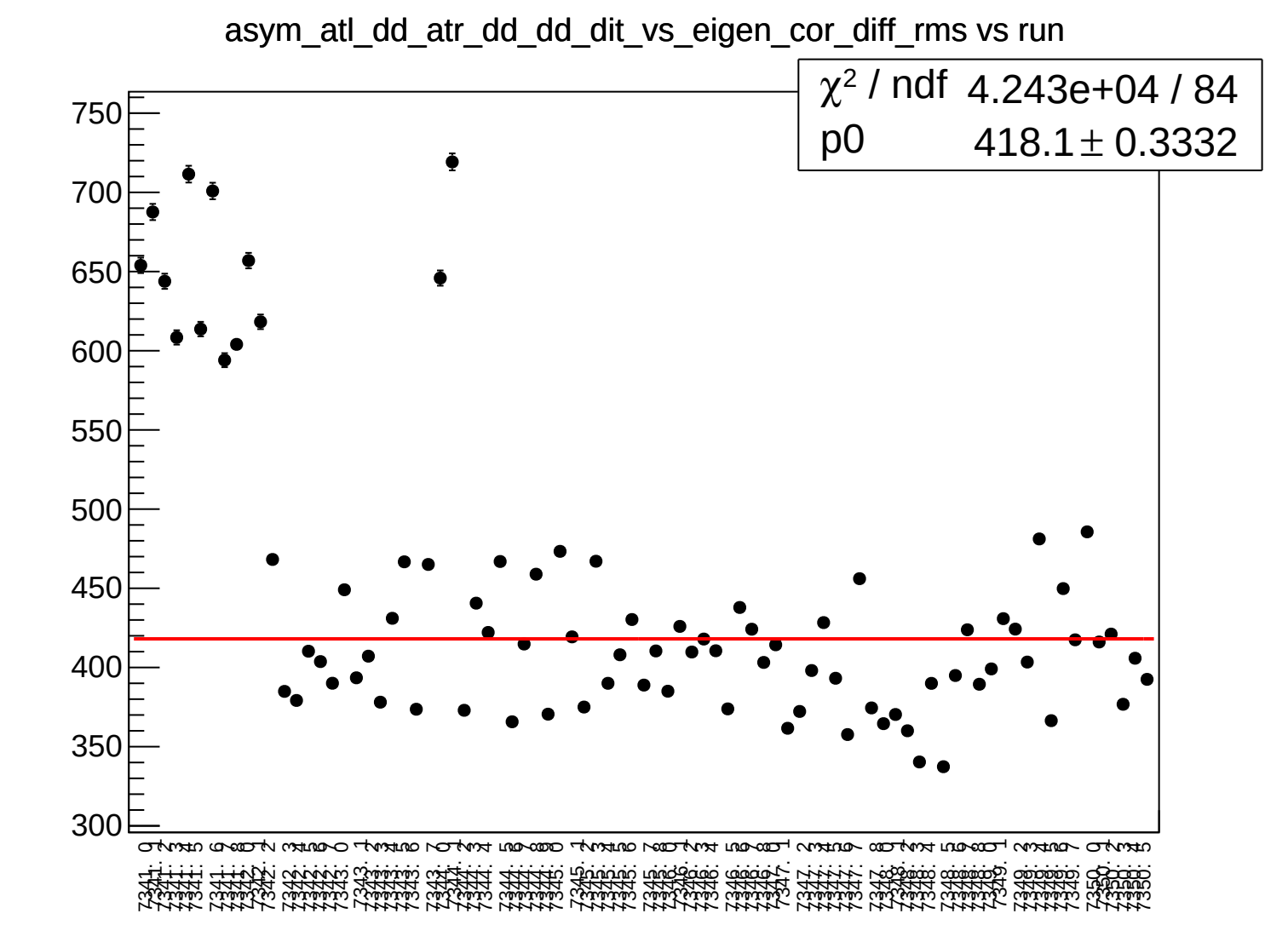

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.212e+06 / 84
p0 9.454e−12 ± 1.486e−14
1
0.8
0.6
0.4
0.2
0

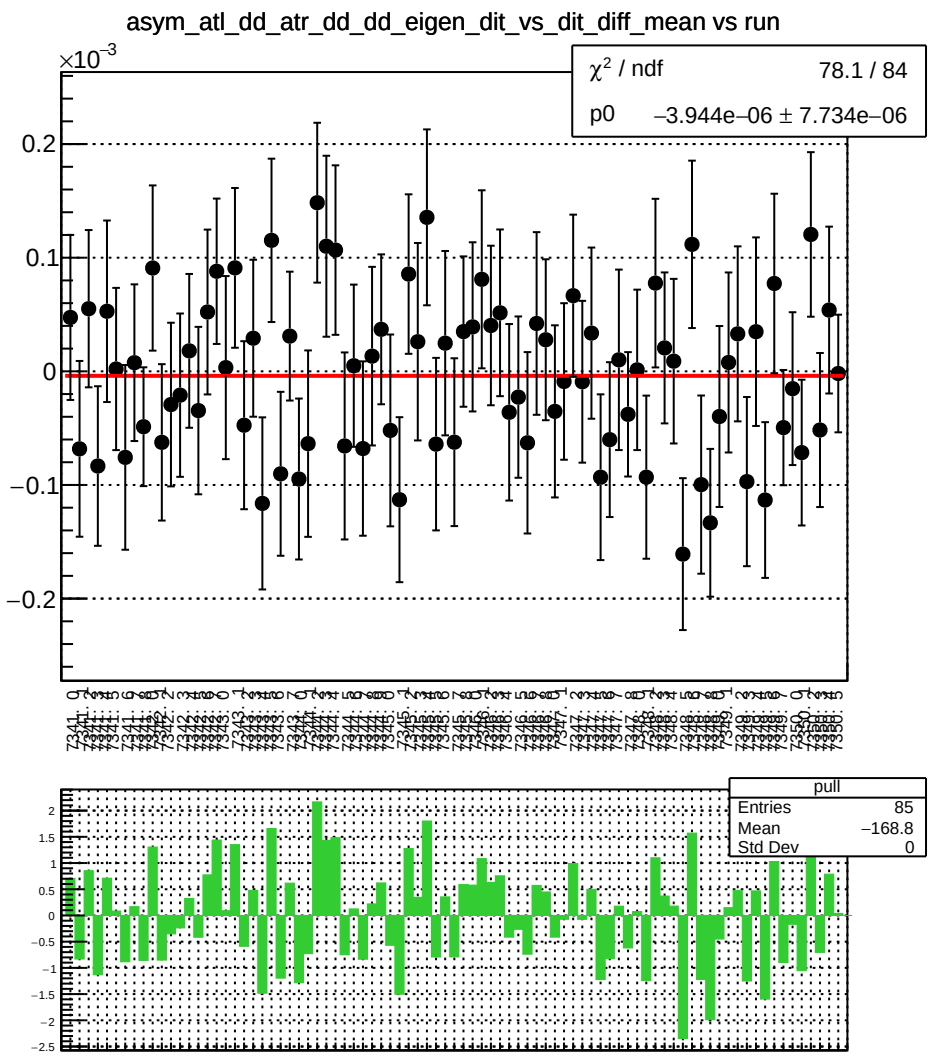

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.16 / 84
p0 0.2289 ± 0.4713
pull
Entries 85
Mean −662
Std Dev 0
pull1D
Entries 85
Mean −0.003897
Std Dev 0.9085

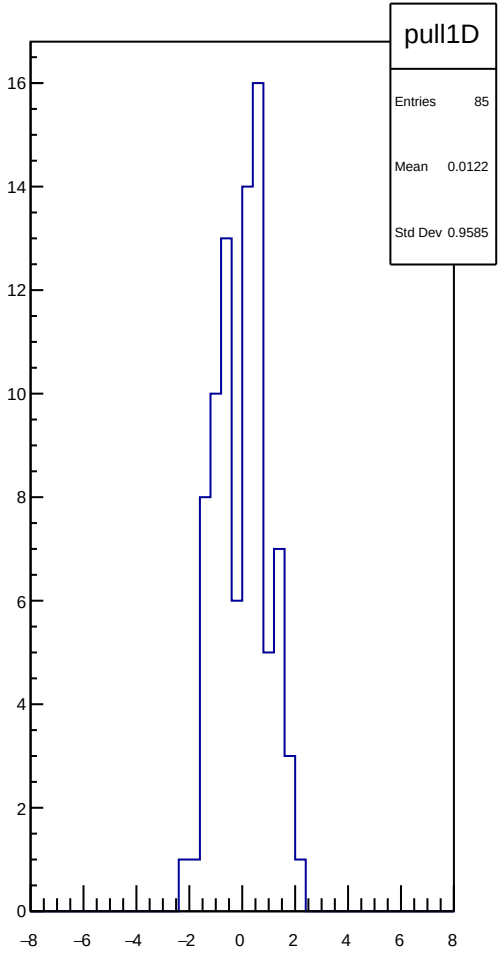

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.243e+04 / 84
p0 418.1 ± 0.3332
750
700
650
600
550
500
450
400
350
300

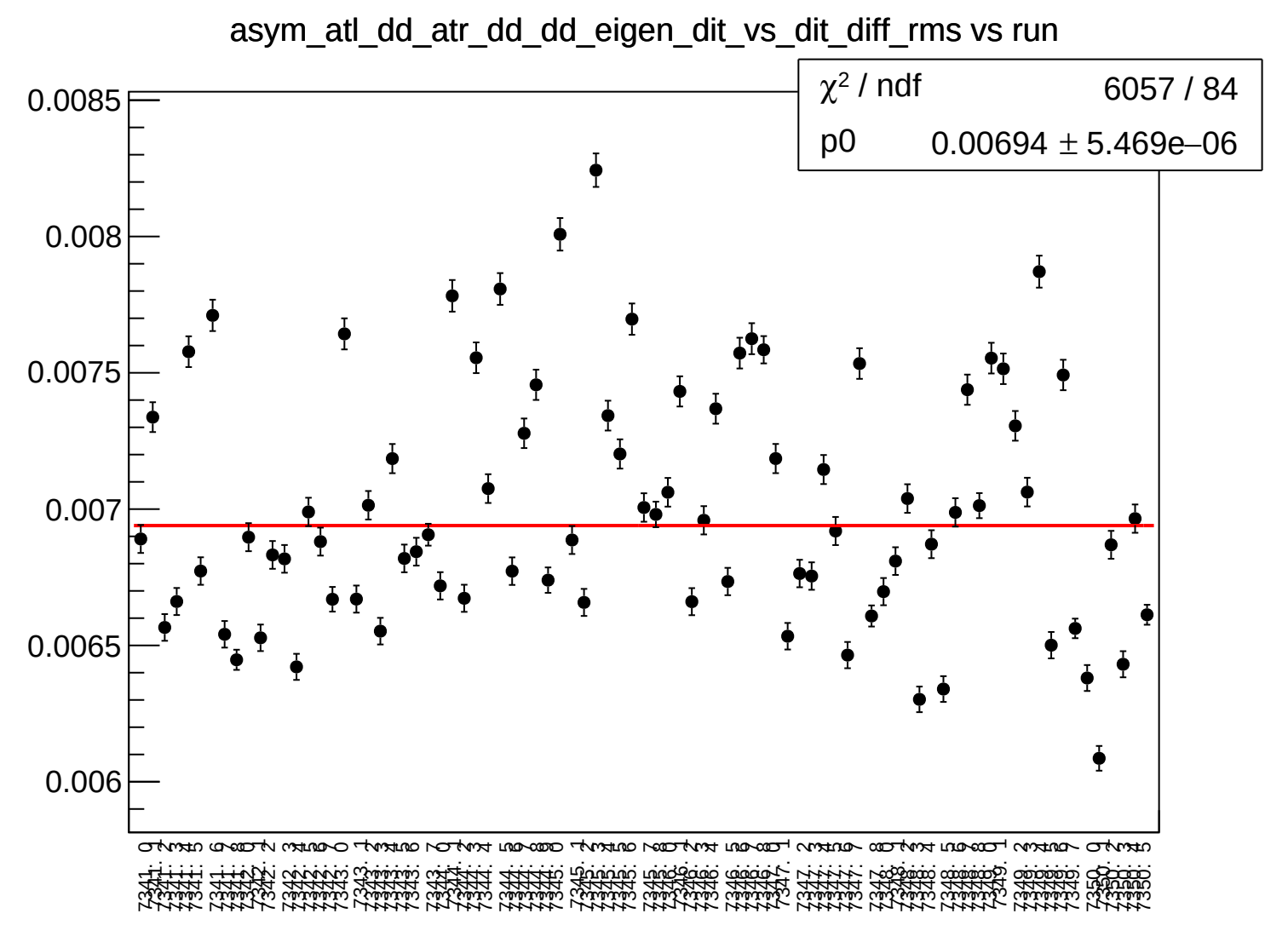

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.16 / 84
p0 0.2289 ± 0.4713
pull
Entries 85
Mean −662
Std Dev 0

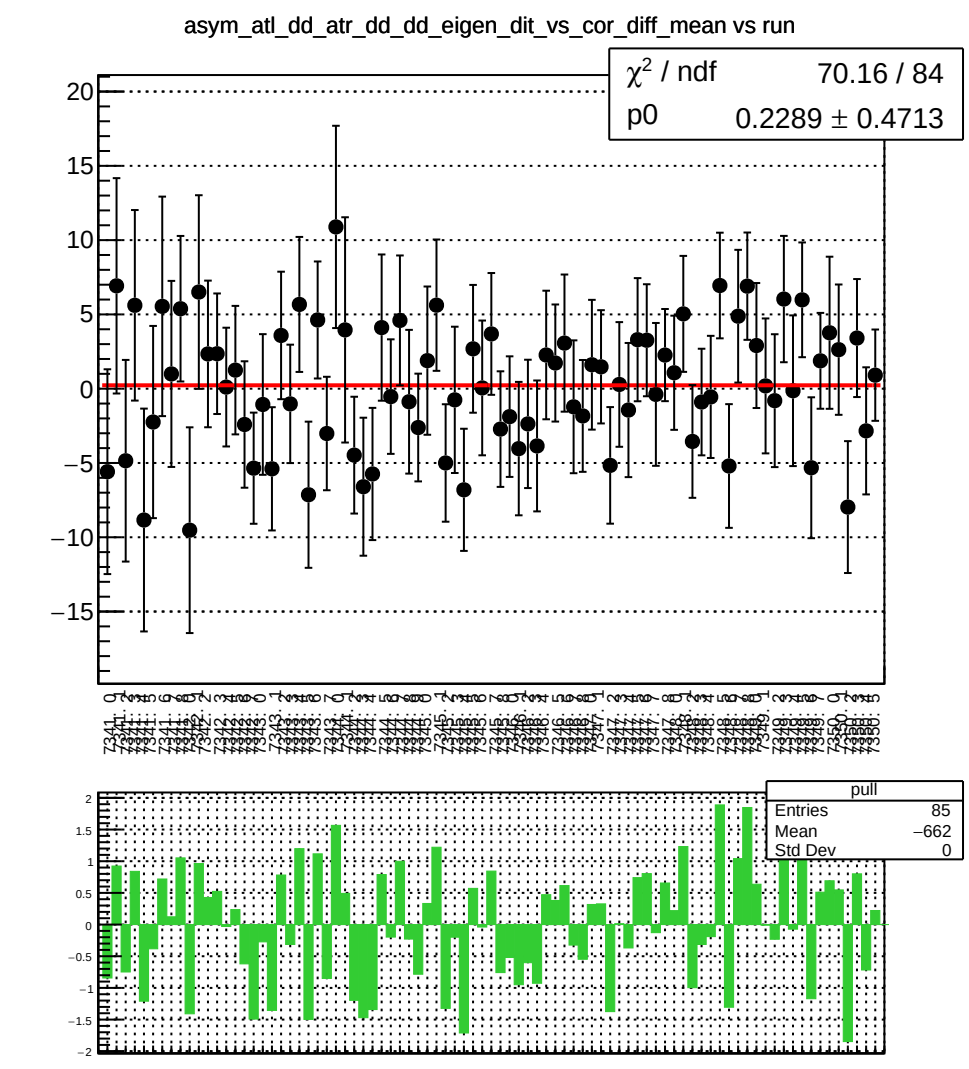

pull1D
Entries 85
Mean −0.003897
Std Dev 0.9085

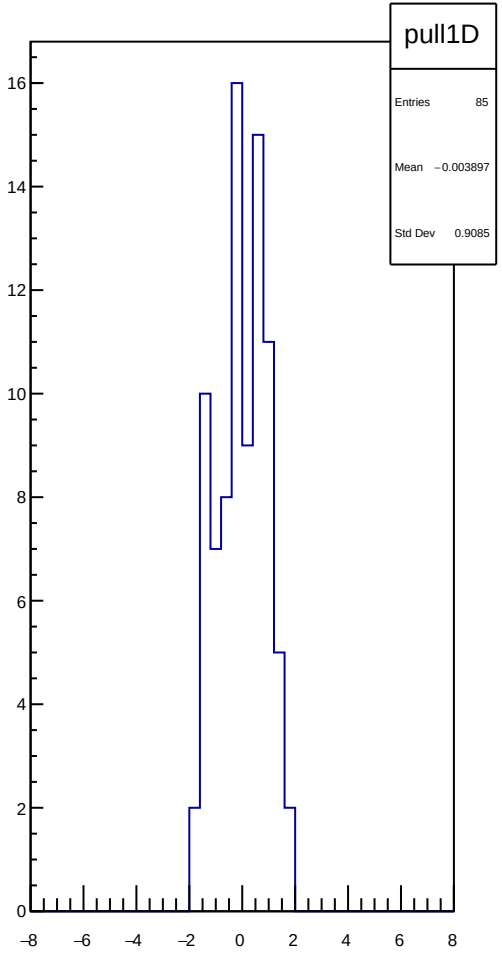

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.243e+04 / 84
p0 418.1 ± 0.3332
750
700
650
600
550
500
450
400
350
300

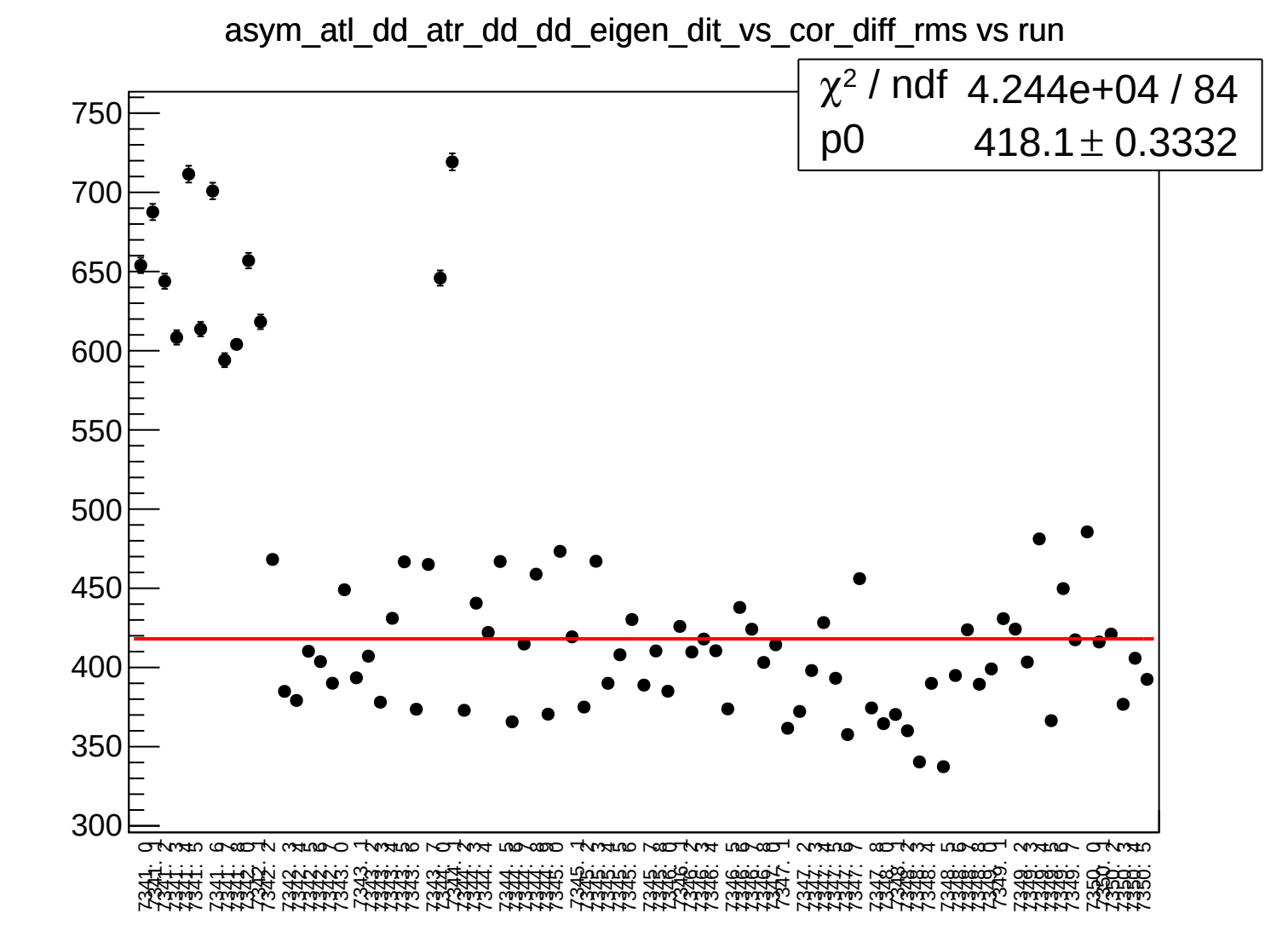

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.1 / 84
p0 −3.944e−06 ± 7.734e−06
pull
Entries 85
Mean −168.8
Std Dev 0

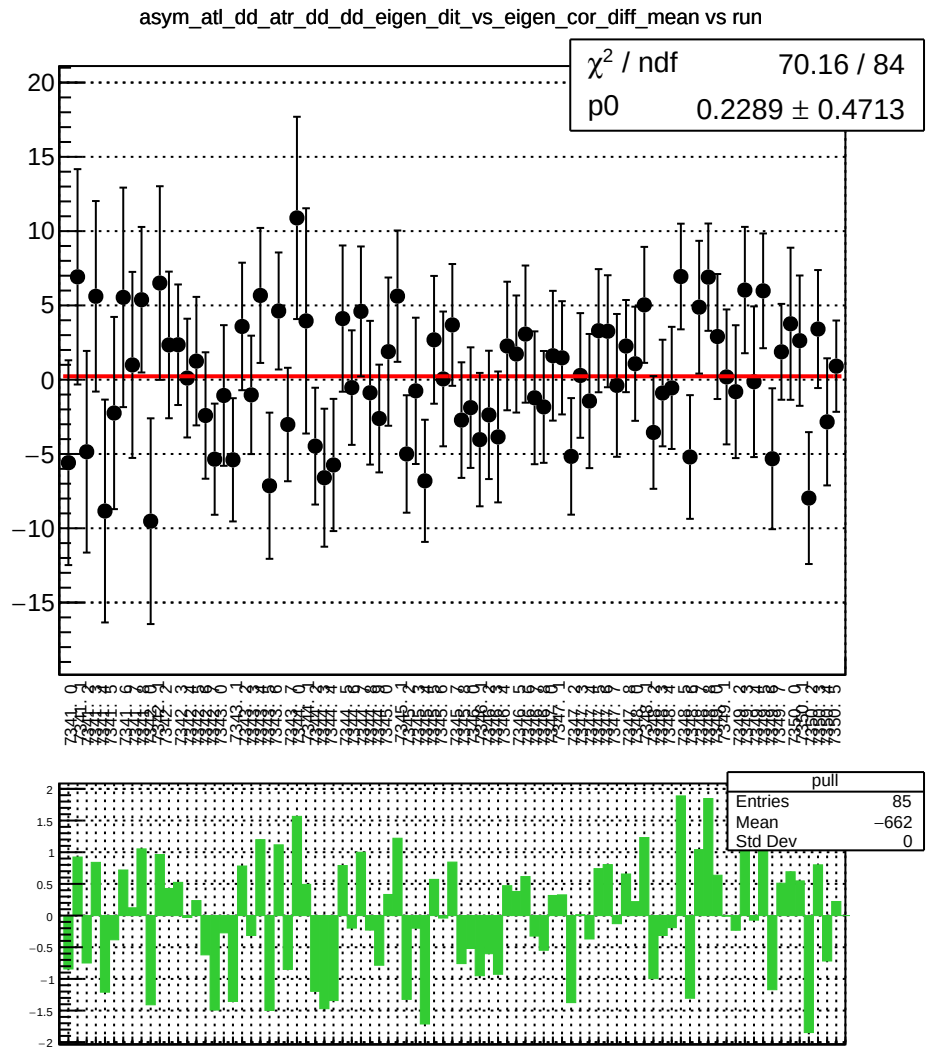

pull1D
Entries 85
Mean 0.0122
Std Dev 0.9585

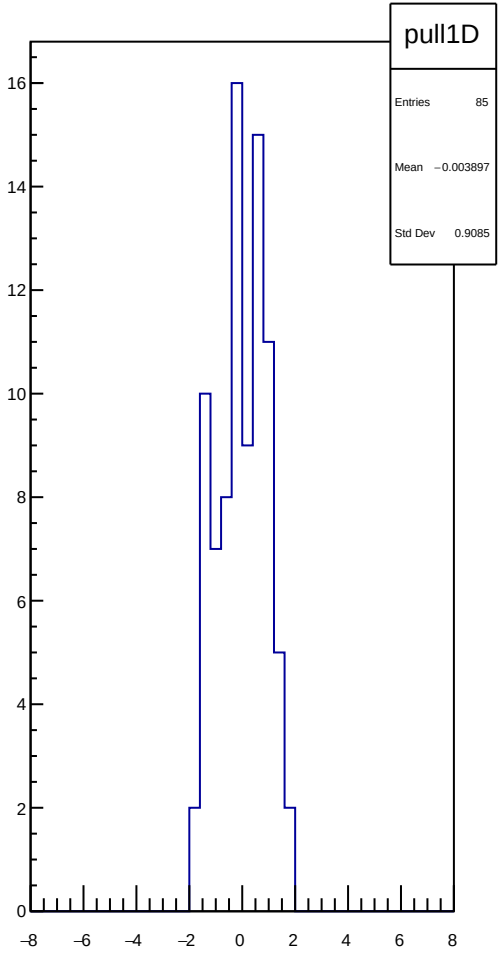

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6057 / 84
p0 0.00694 ± 5.469e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

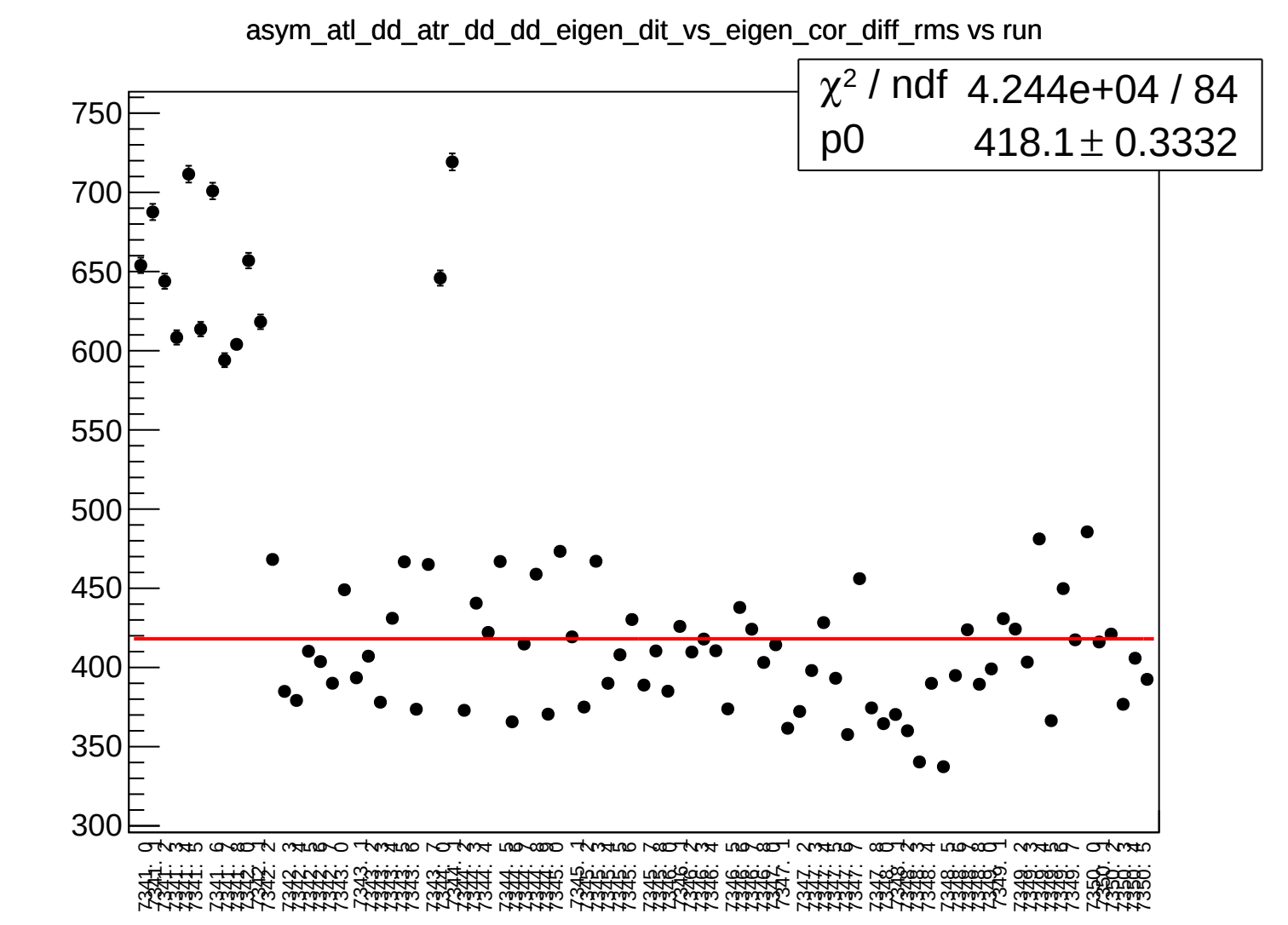

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.16 / 84
p0 0.2289 ± 0.4713
pull
Entries 85
Mean −662
Std Dev 0

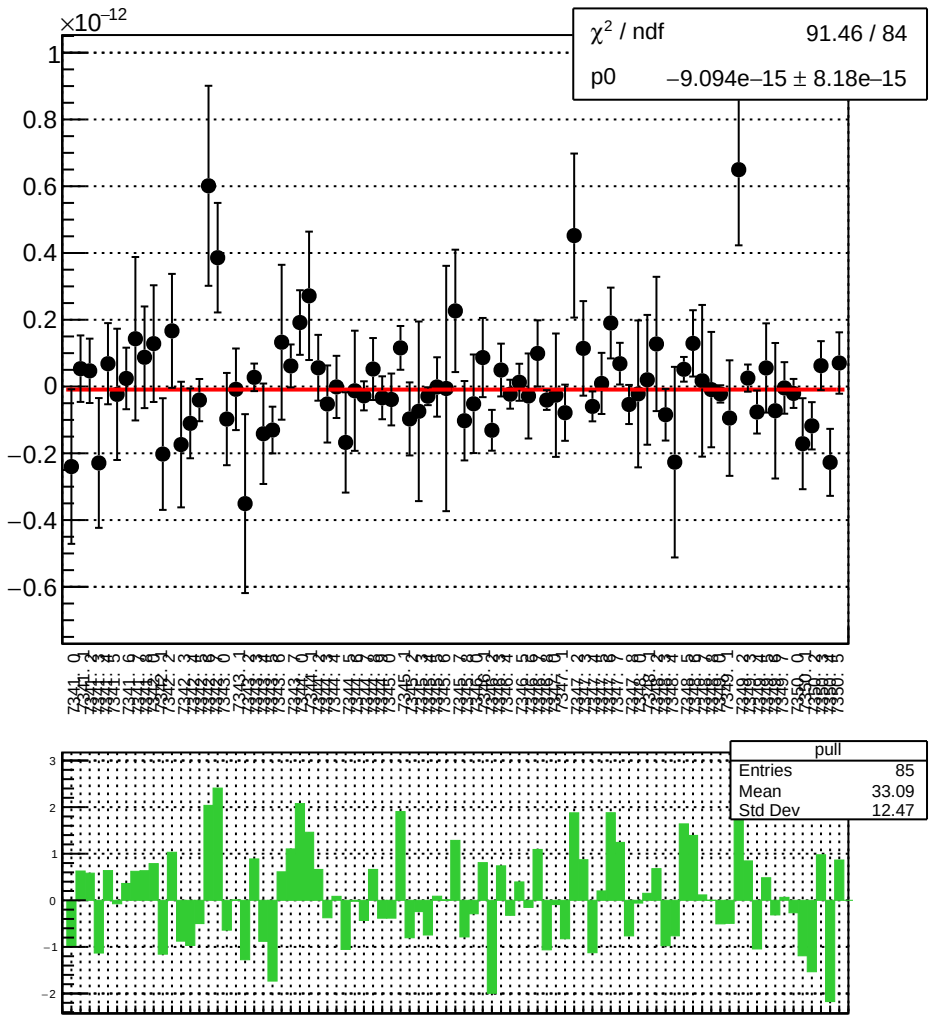

pull1D
Entries 85
Mean −0.003897
Std Dev 0.9085

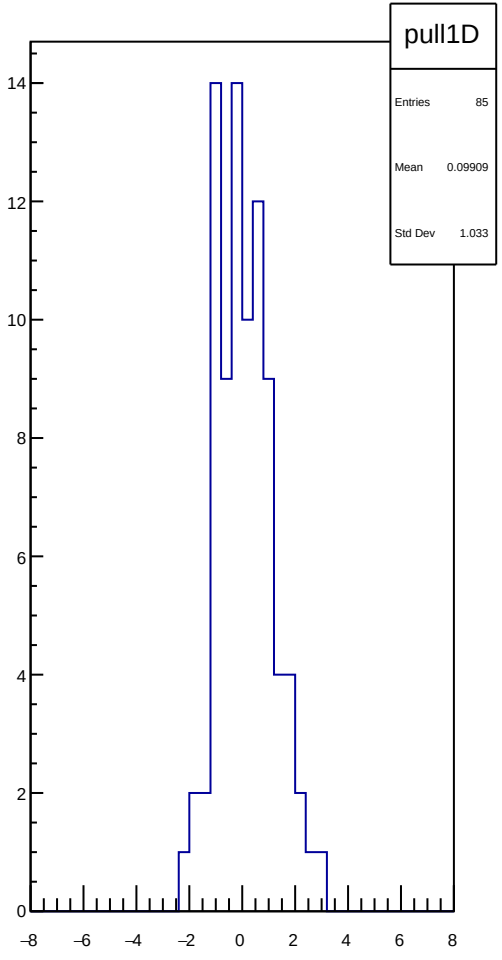

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.244e+04 / 84
p0 418.1 ± 0.3332
750
700
650
600
550
500
450
400
350
300

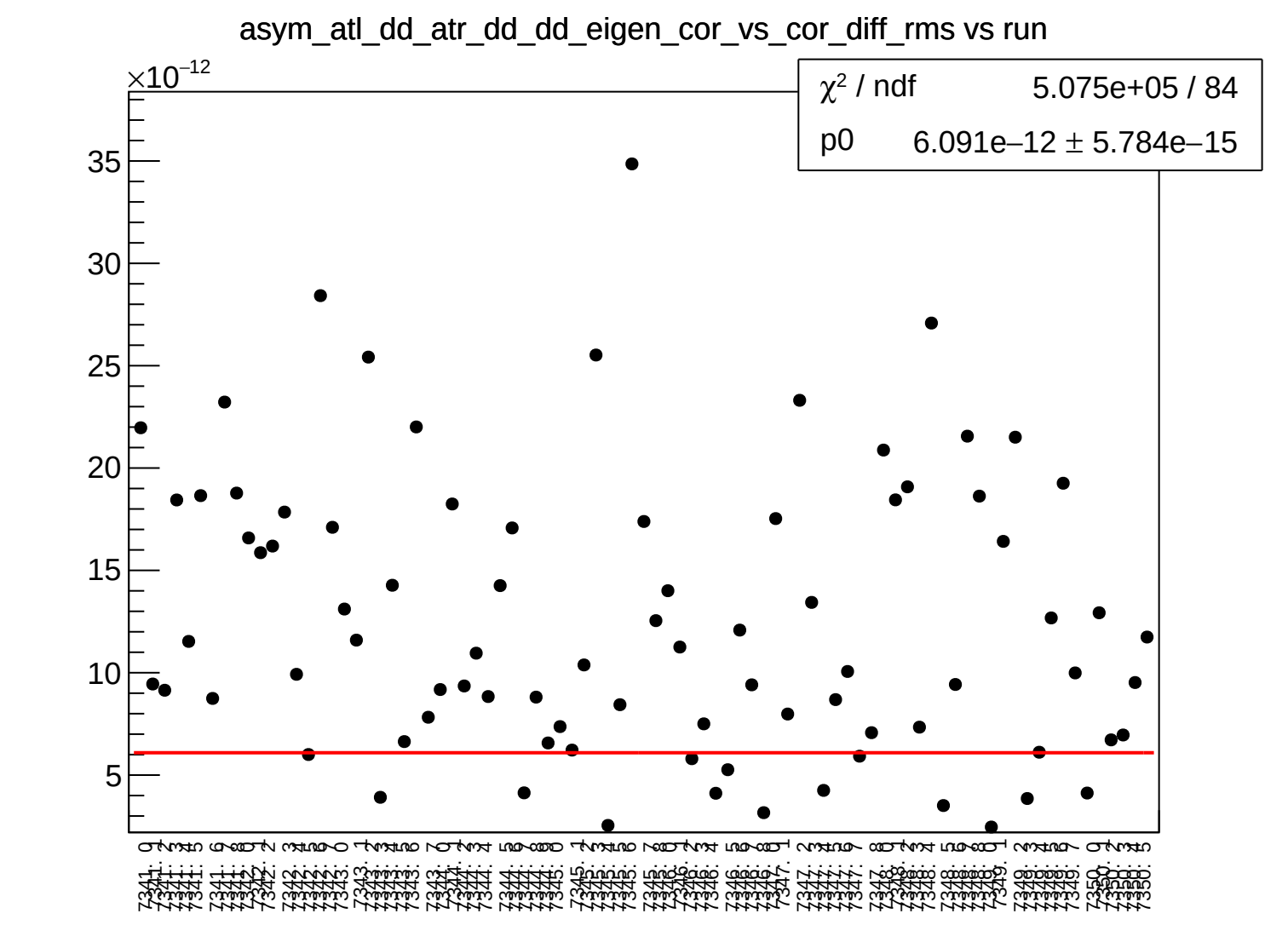

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.16 / 84
p0 0.2289 ± 0.4713
pull
Entries 85
Mean −662
Std Dev 0

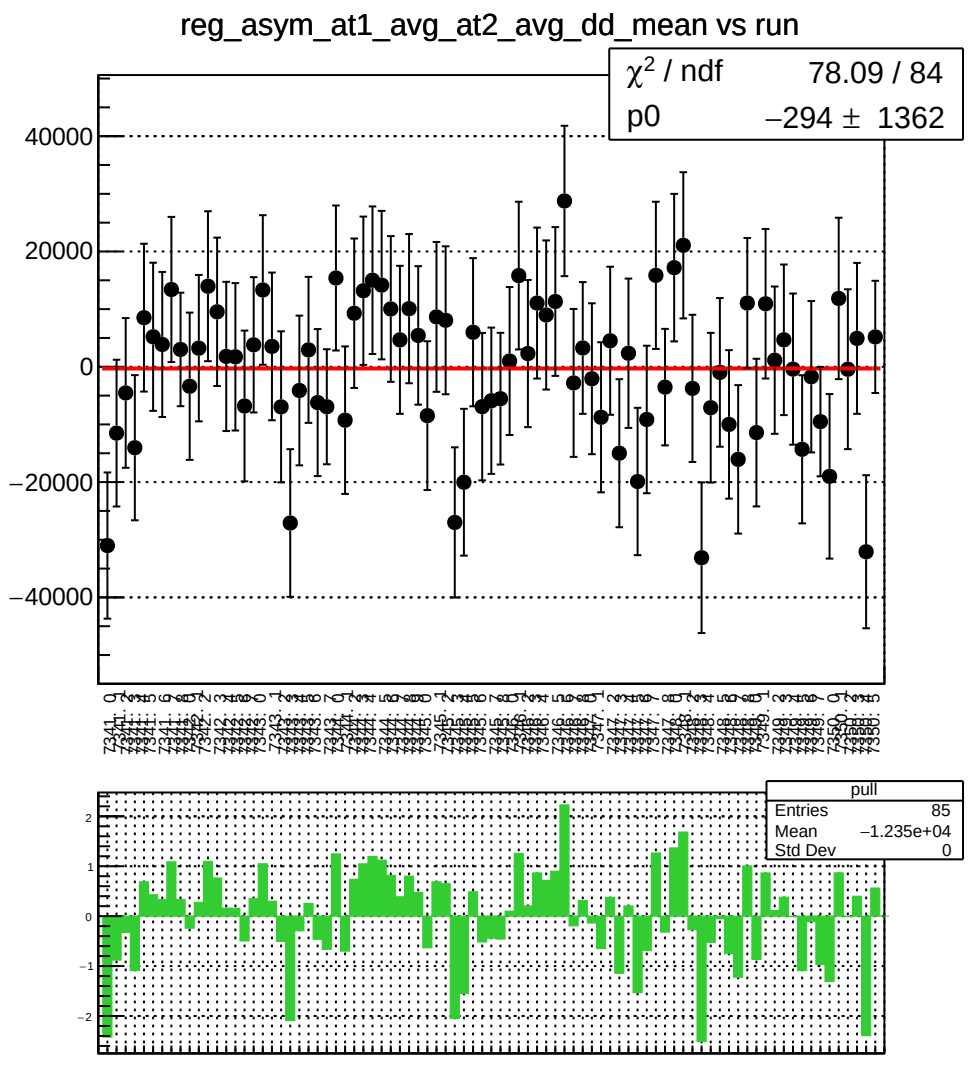

pull1D
Entries 85
Mean −0.003897
Std Dev 0.9085

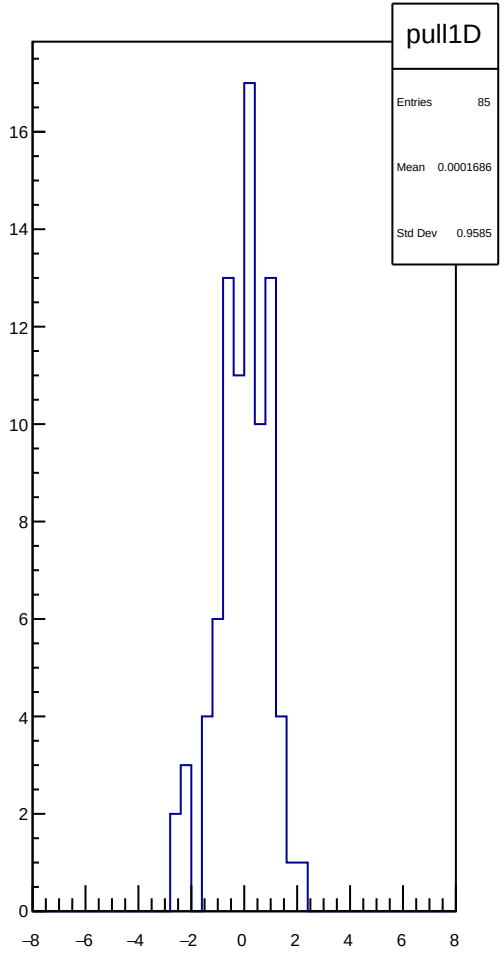

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.244e+04 / 84
p0 418.1 ± 0.3332
750
700
650
600
550
500
450
400
350
300

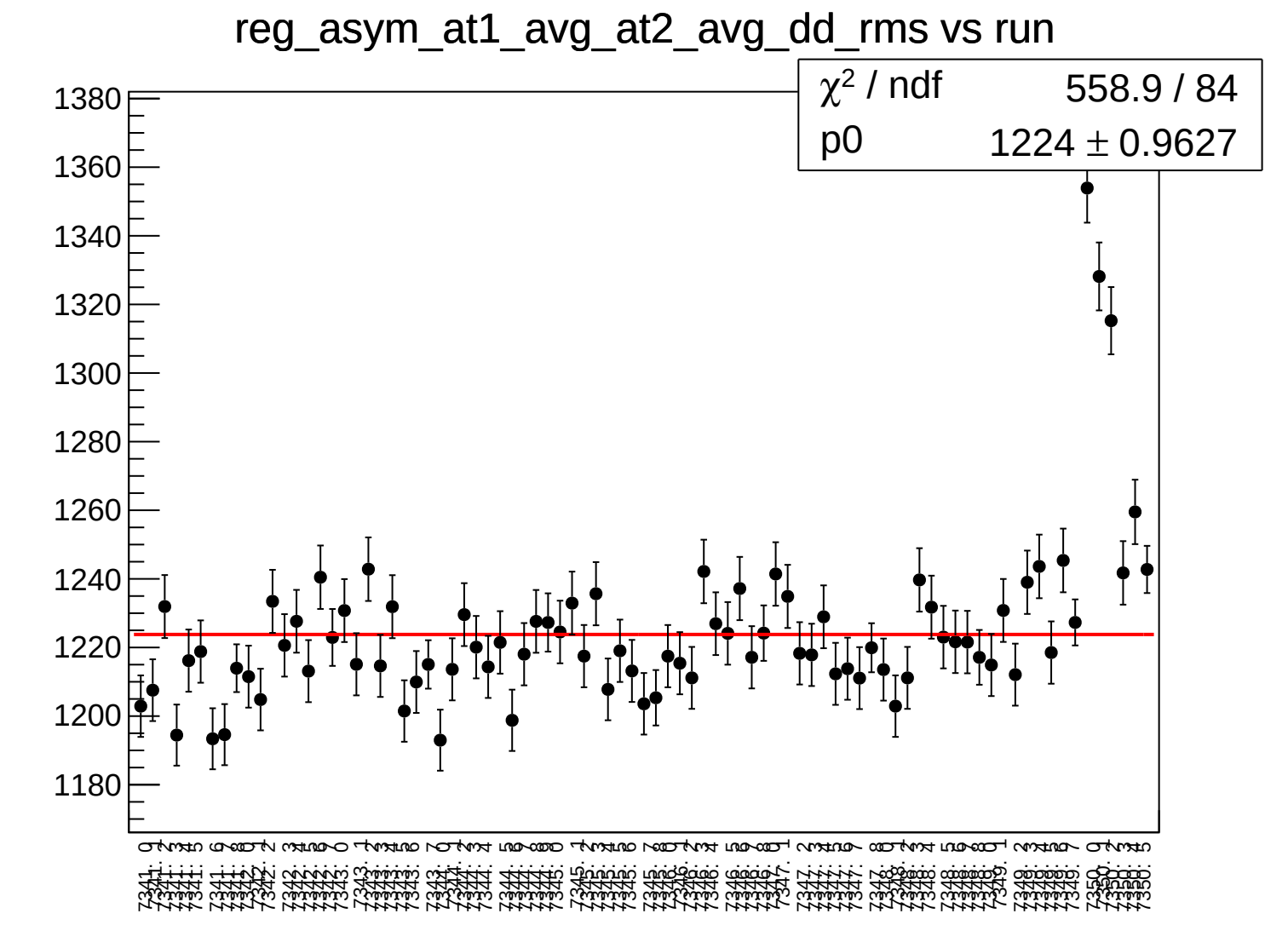

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.46 / 84
p0 −9.094e−15 ± 8.18e−15
pull
Entries 85
Mean 33.09
Std Dev 12.47

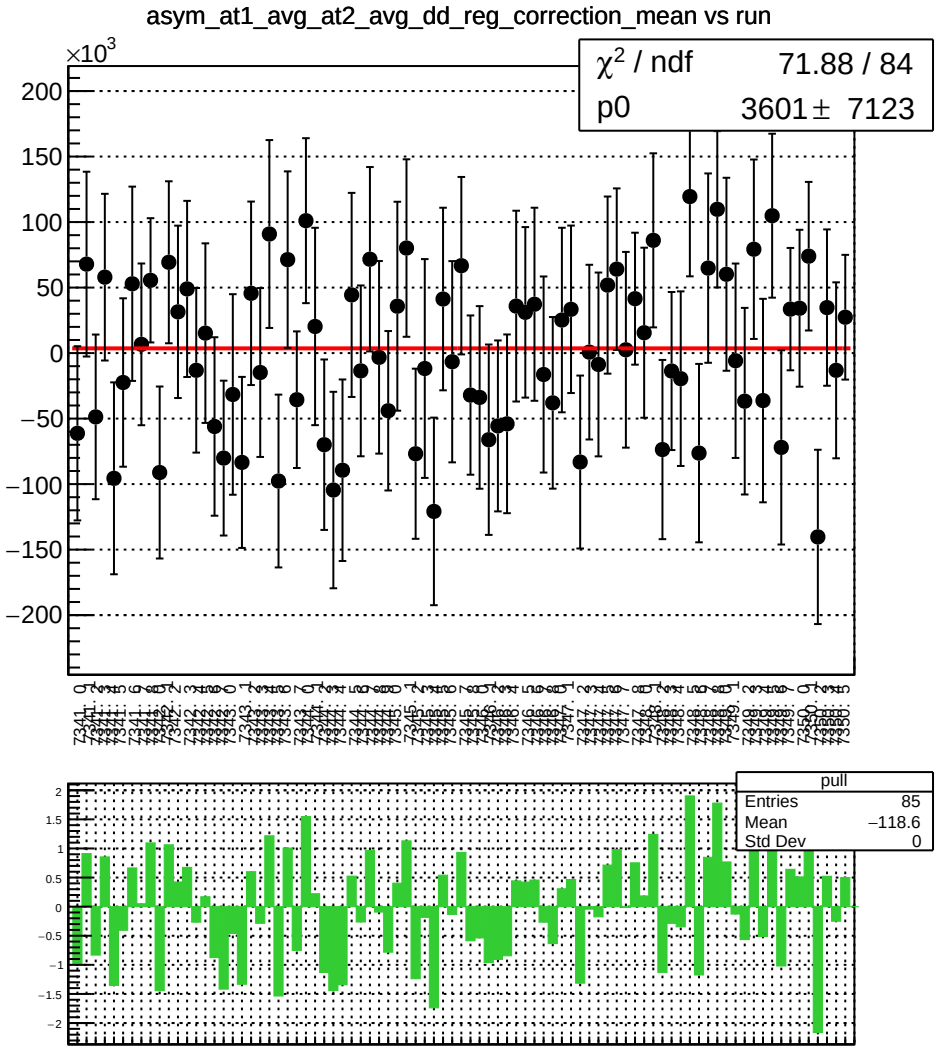

pull1D
Entries 85
Mean 0.09909
Std Dev 1.033

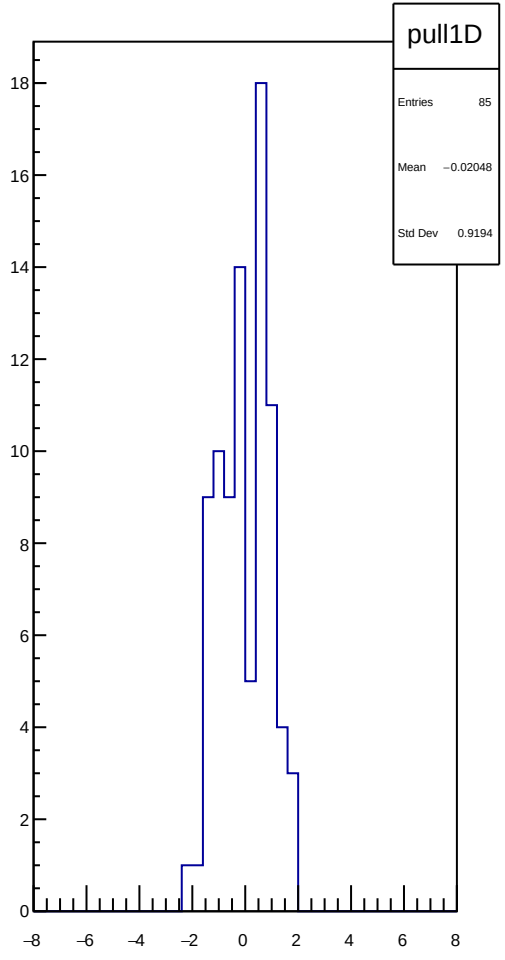

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.075e+05 / 84
p0 6.091e−12 ± 5.784e−15
35
30
25
20
15
10
5

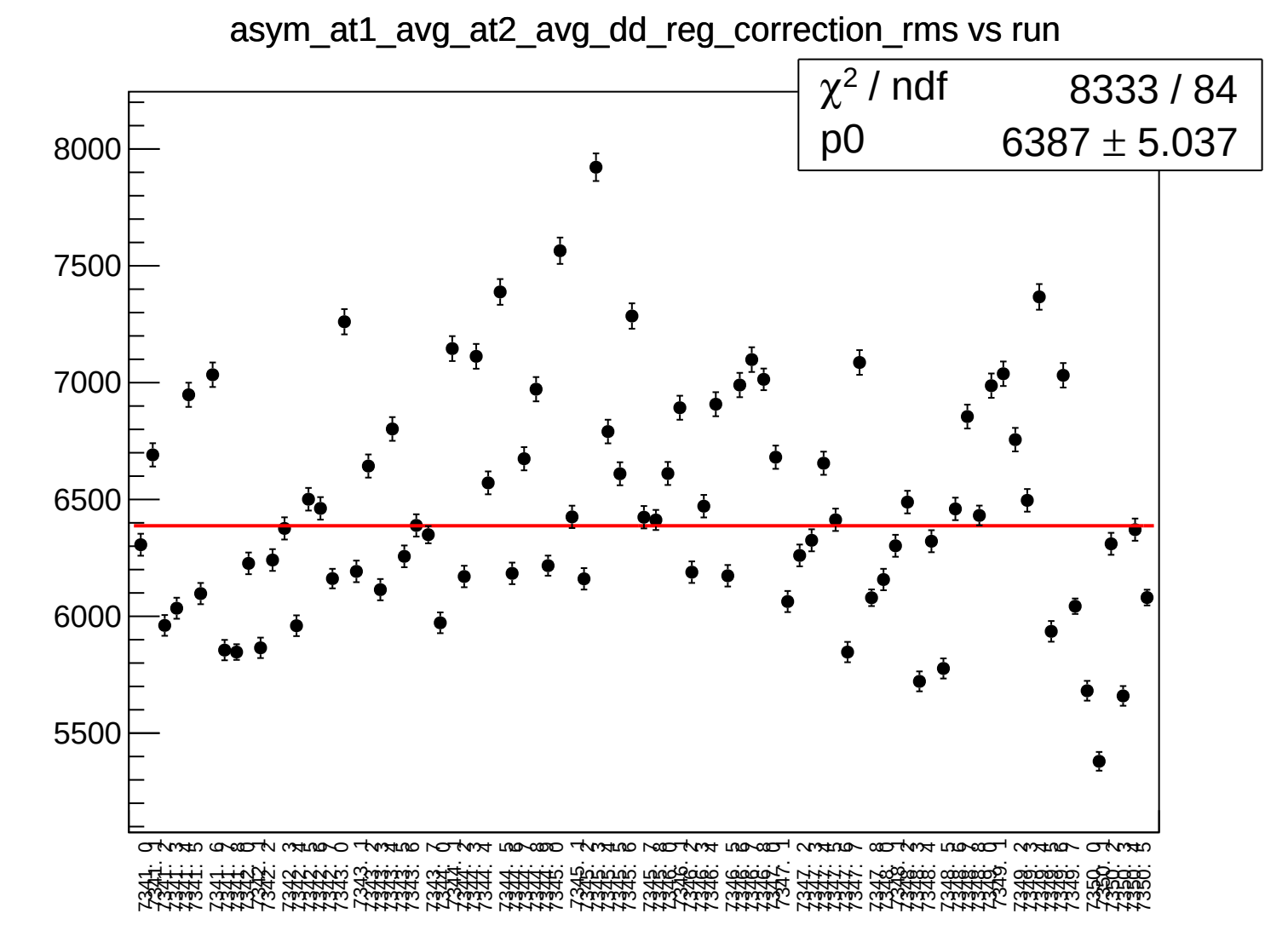

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.09 / 84
p0 −294 ± 1362
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.235e+04
Std Dev 0
2
1
0
−1
−2

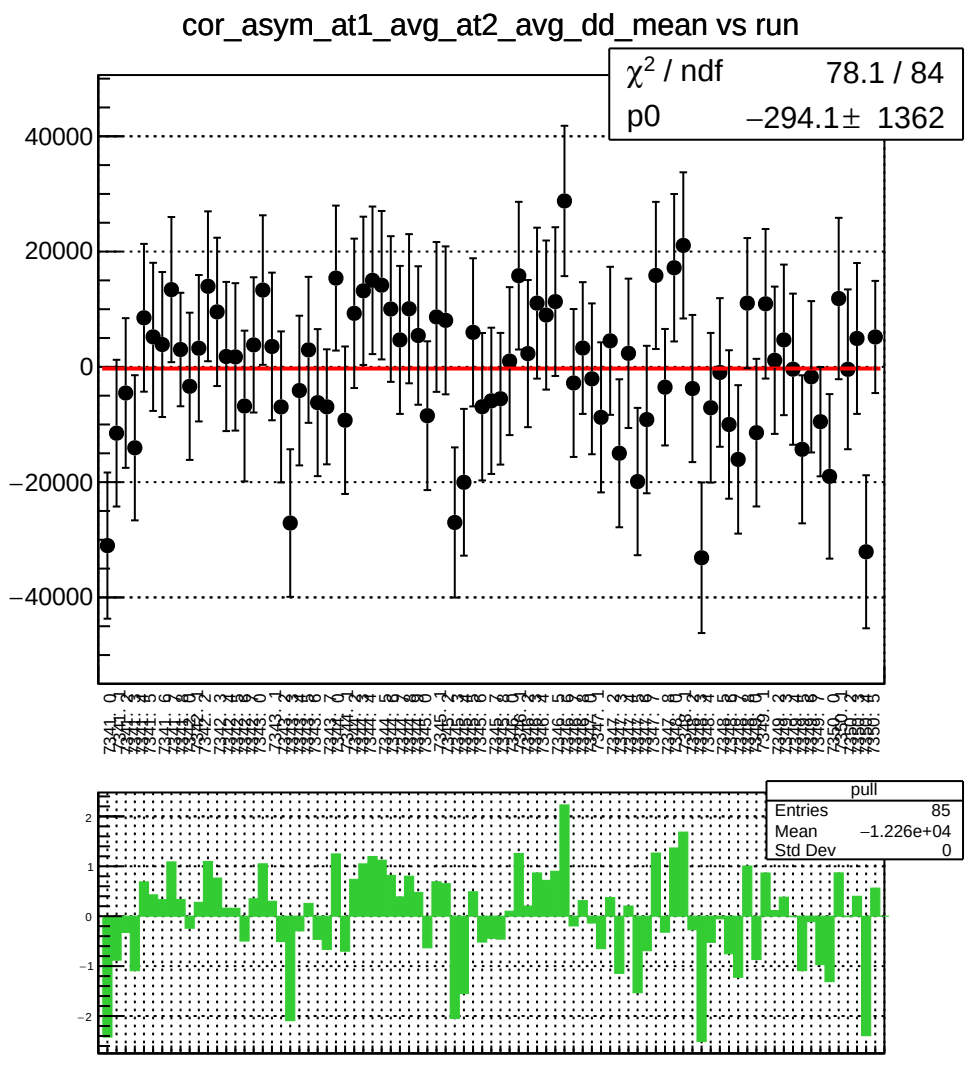

pull1D
Entries 85
Mean 0.0001686
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

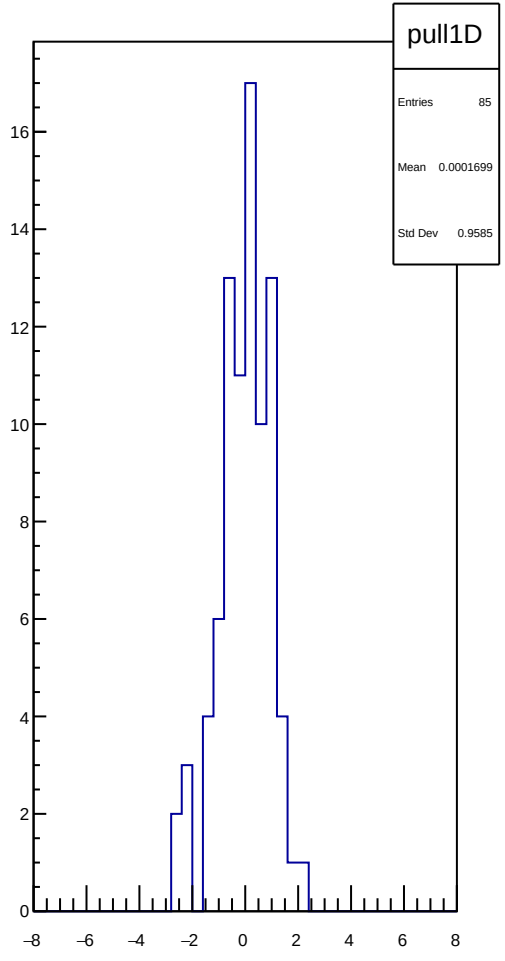

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 558.9 / 84
p0 1224 ± 0.9627
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

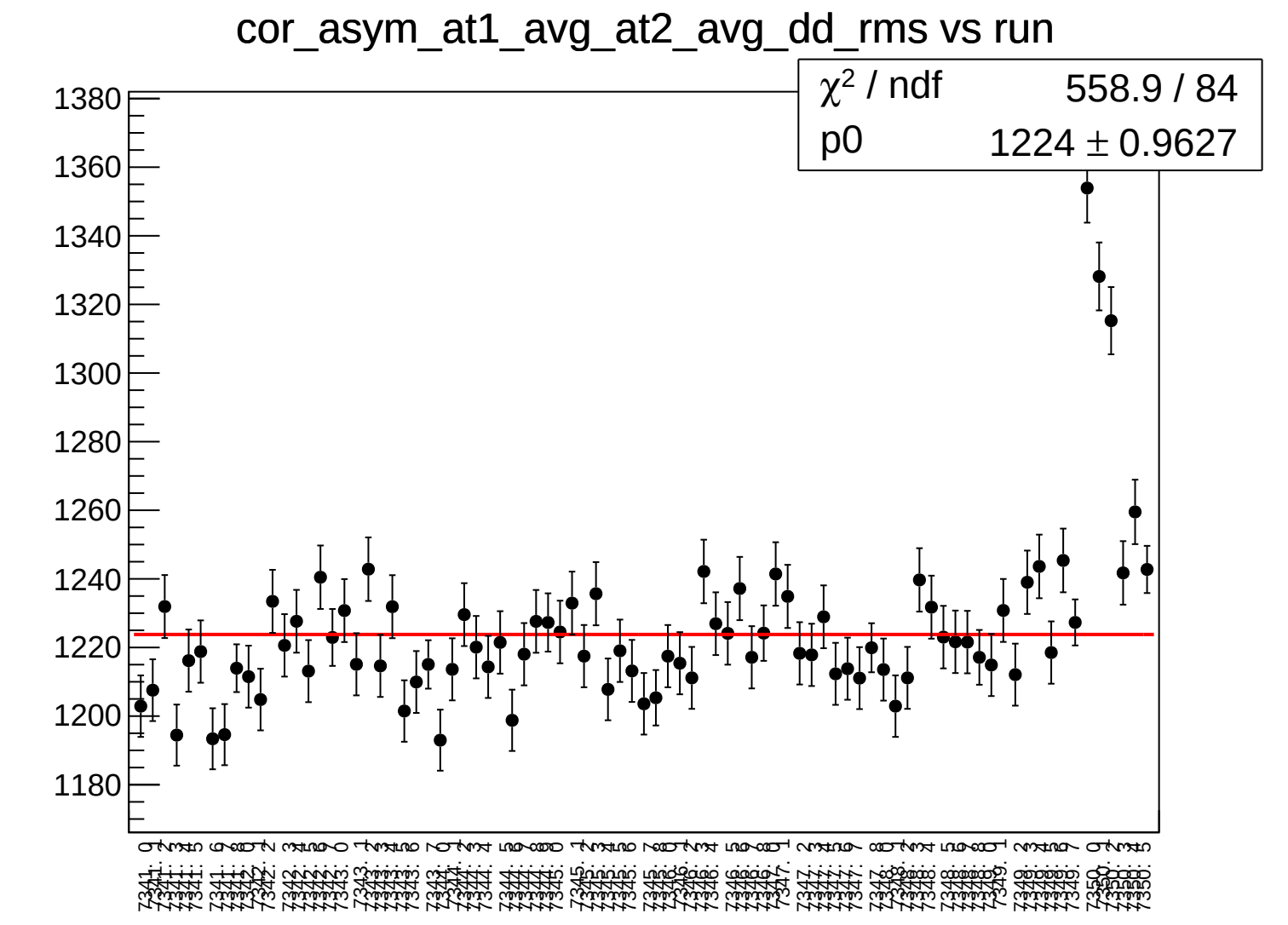

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 71.88 / 84
p0 3601 ± 7123
pull
Entries 85
Mean −118.6
Std Dev 0

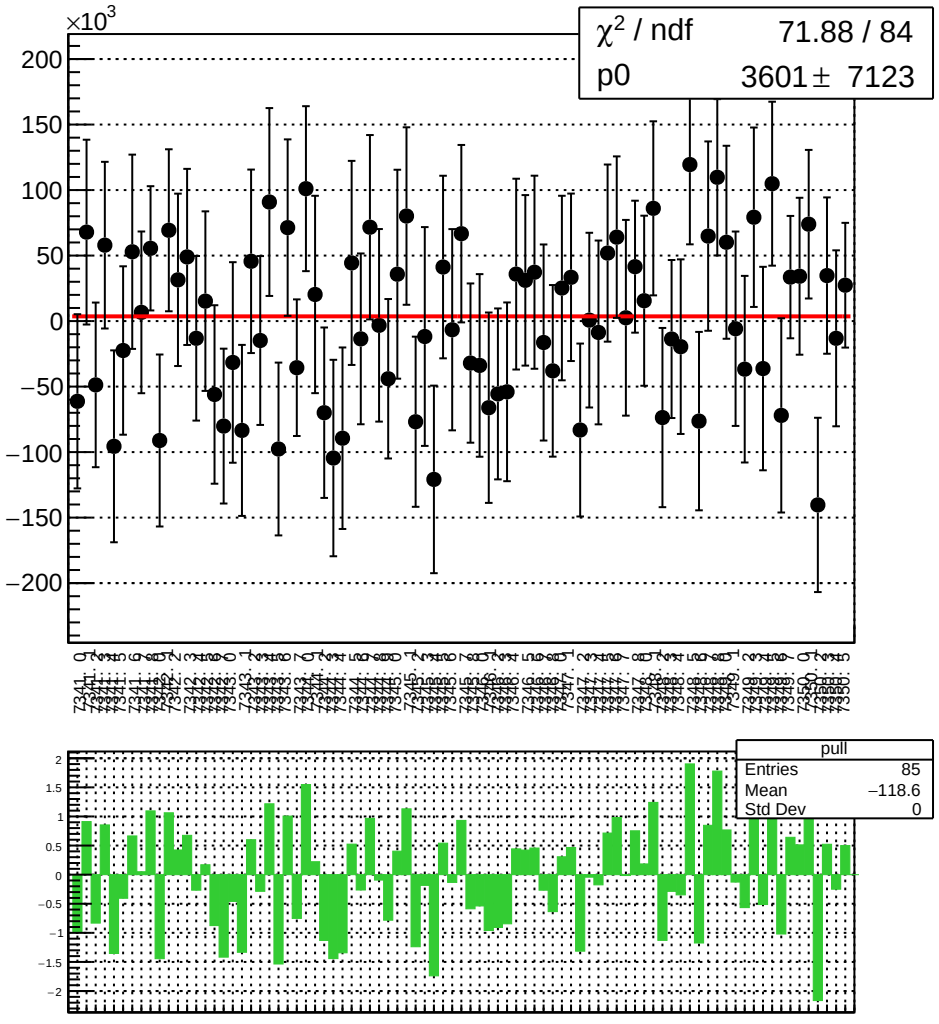

pull1D
Entries 85
Mean −0.02048
Std Dev 0.9194

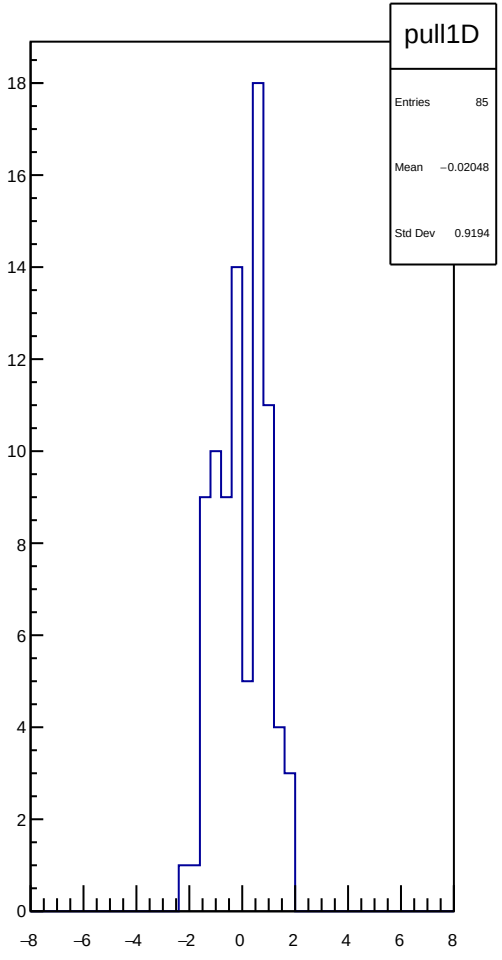

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ^2 / ndf 8333 / 84
p0 6387 ± 5.037
8000
7500
7000
6500
6000
5500

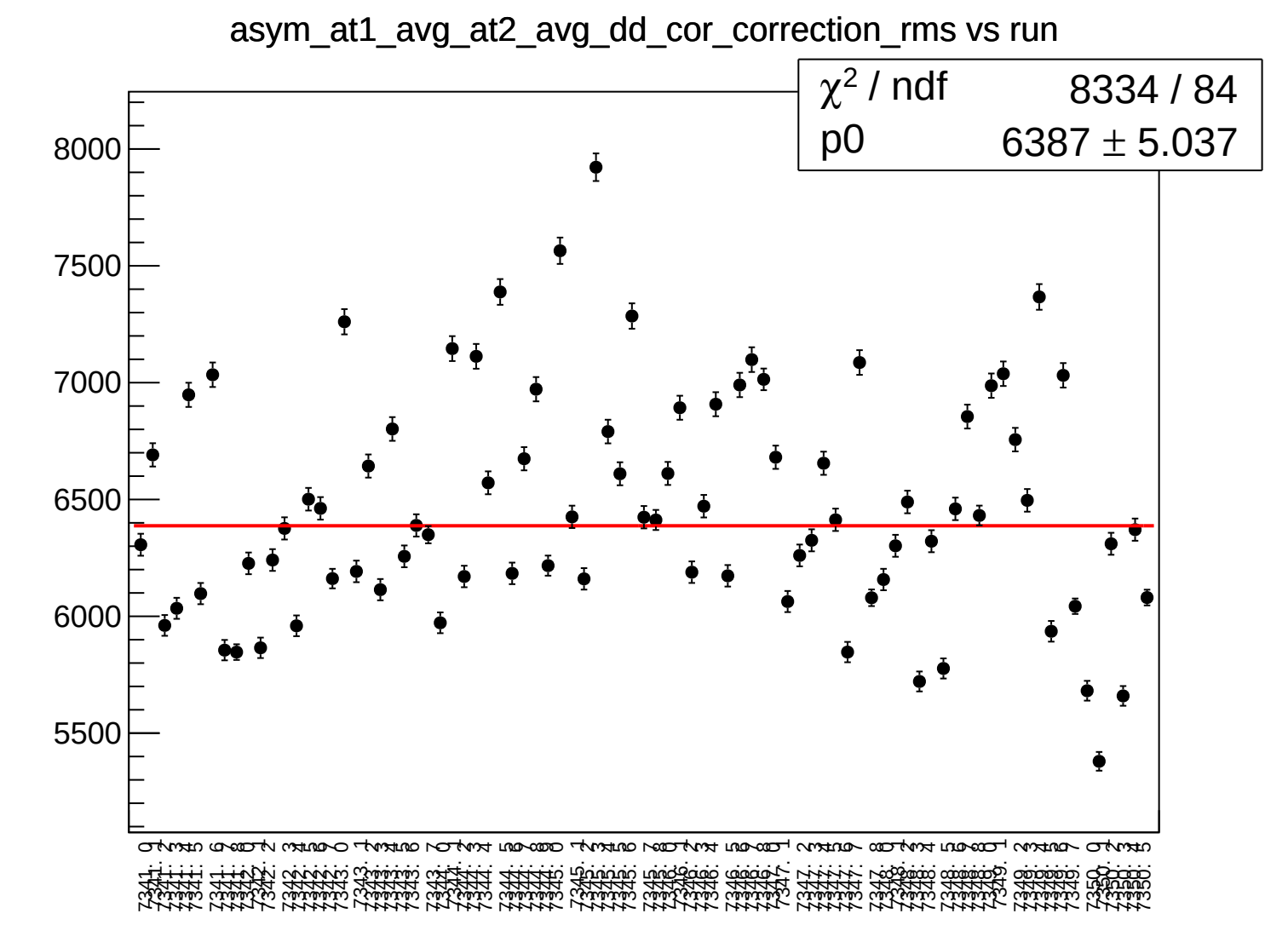

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.1 / 84
p0 −294.1± 1362
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.226e+04
Std Dev 0
2
1
0
−1
−2

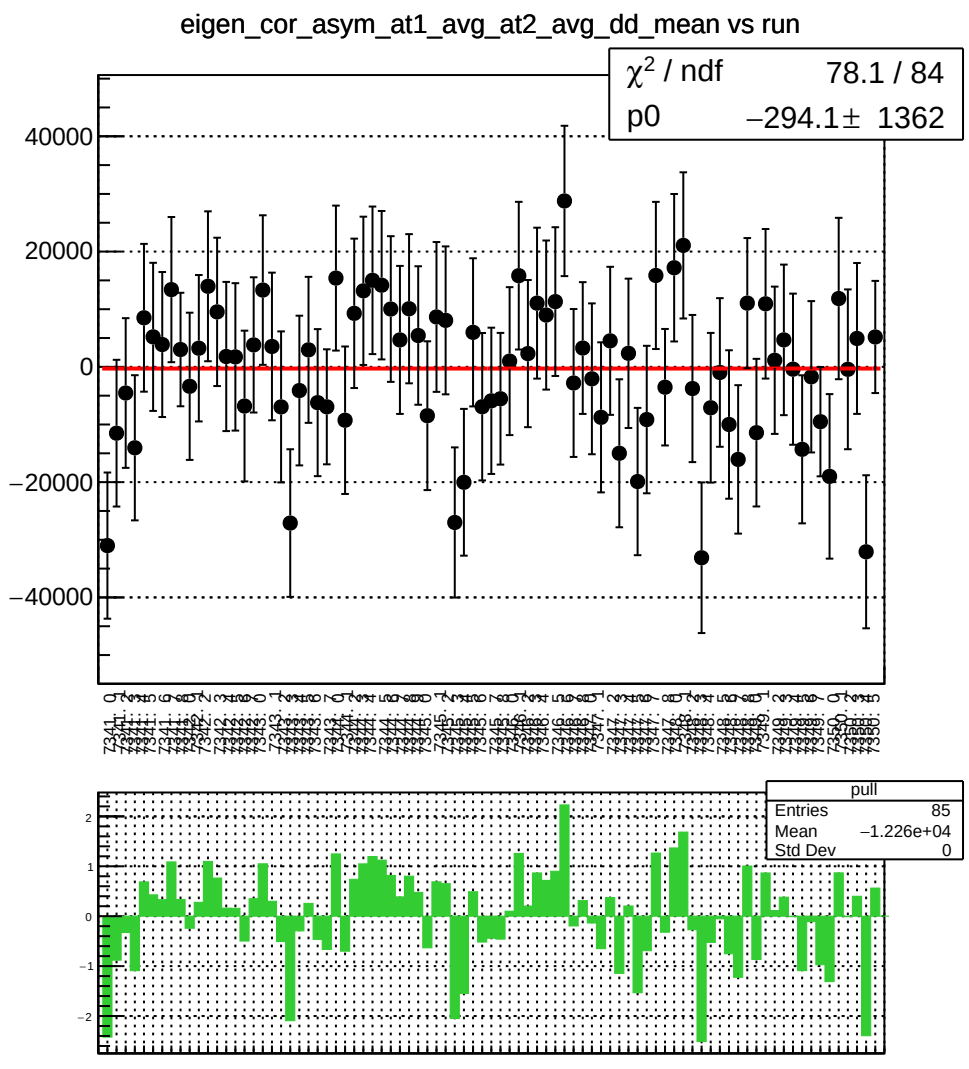

pull1D
Entries 85
Mean 0.0001699
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

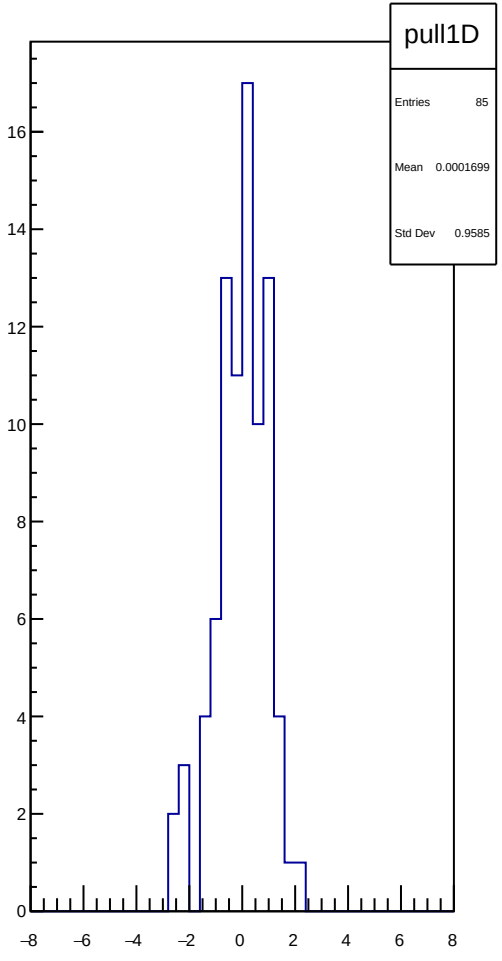

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 558.9 / 84
p0 1224 ± 0.9627
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

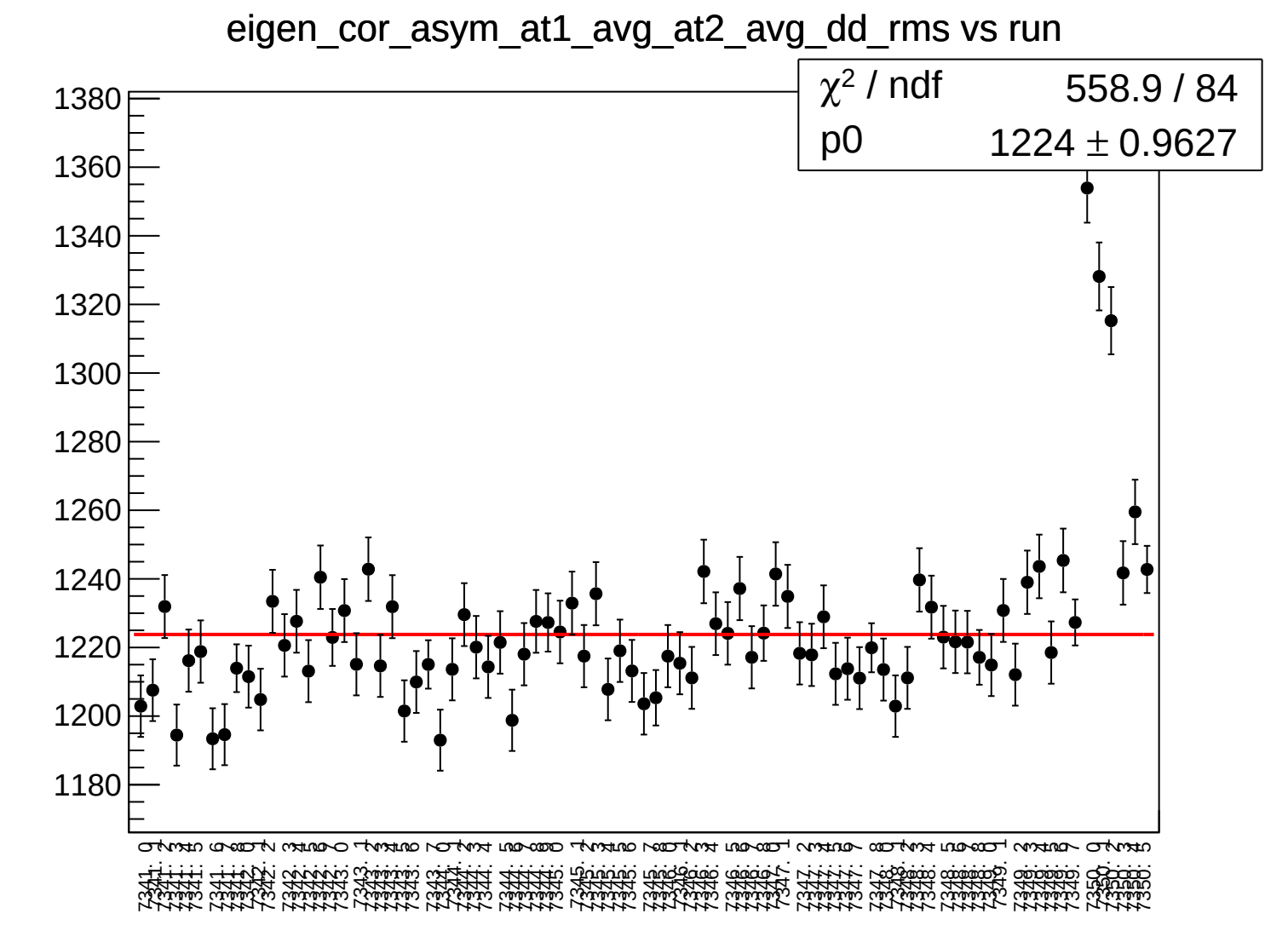

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
χ² / ndf 71.88 / 84
p0 3601 ± 7123
×10³
pull
Entries 85
Mean −118.6
Std Dev 0

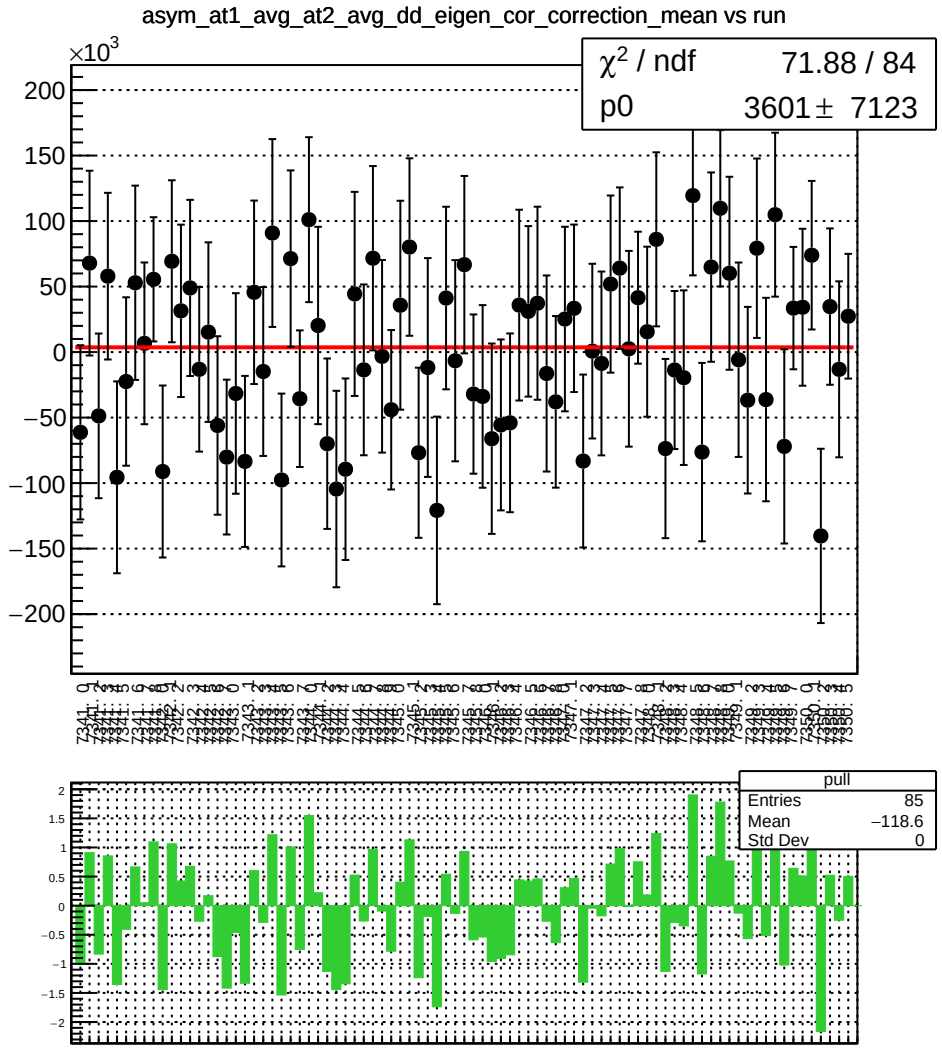

pull1D
Entries 85
Mean −0.02048
Std Dev 0.9194

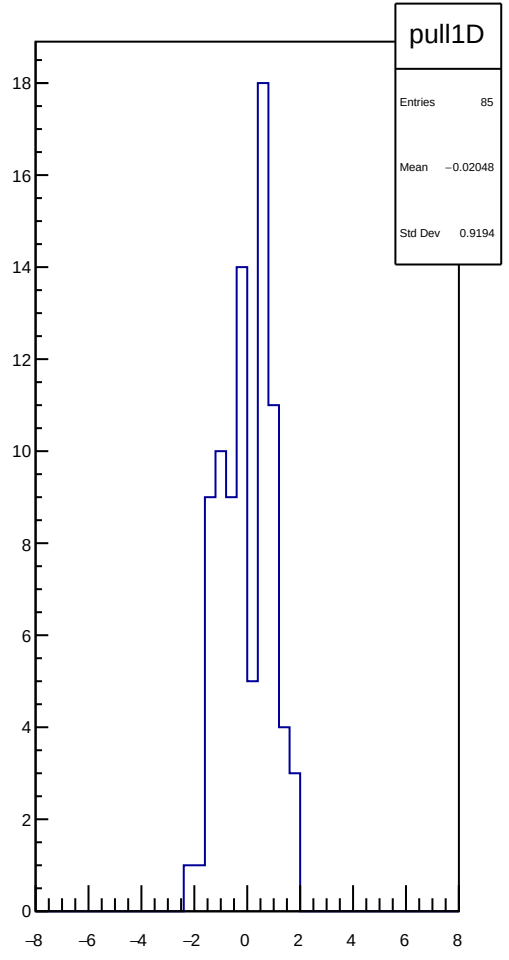

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 8334 / 84
p0 6387 ± 5.037
8000
7500
7000
6500
6000
5500

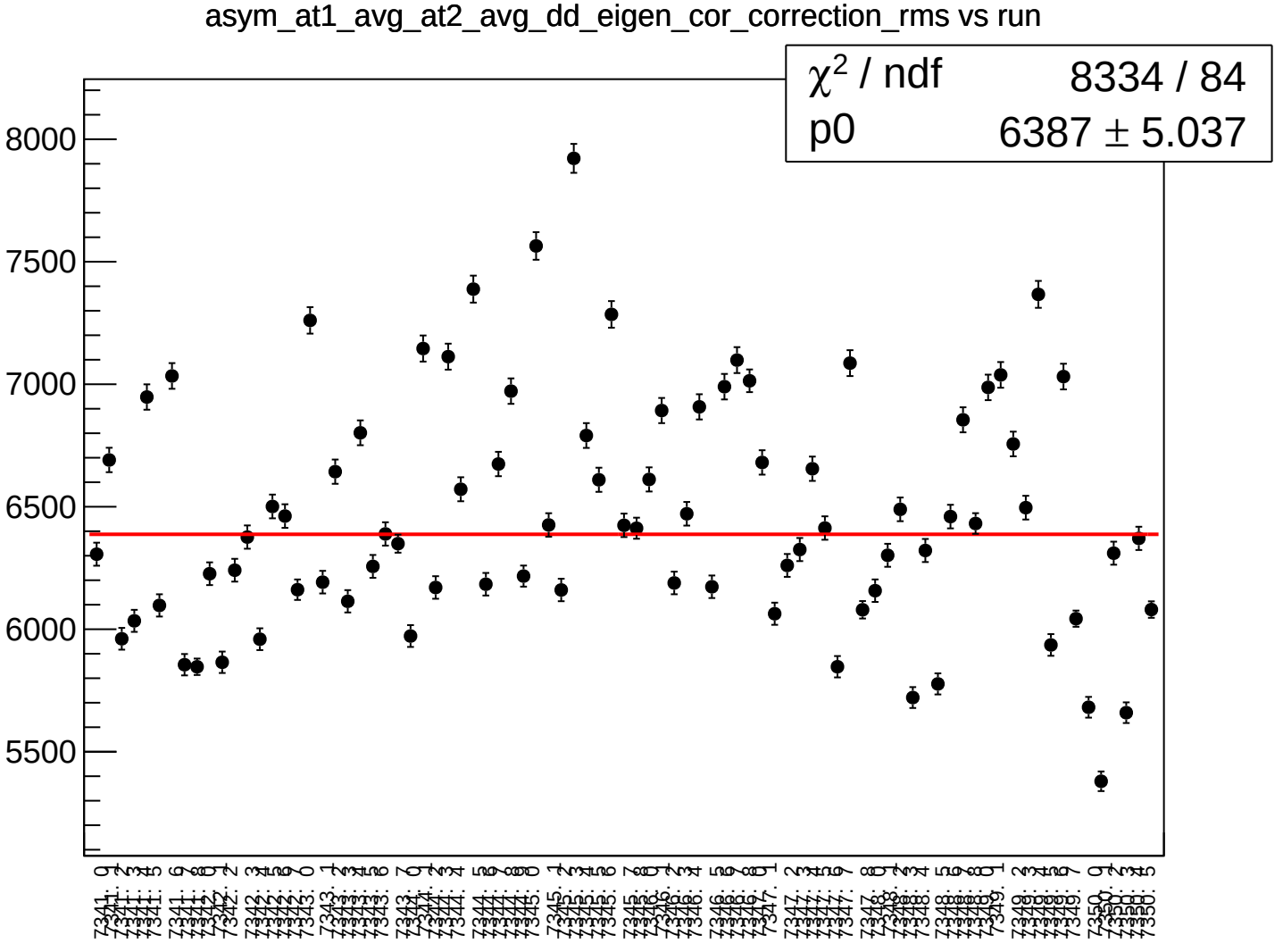

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.1 / 84
p0 −294.1± 1362
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.226e+04
Std Dev 0
2
1
0
−1
−2

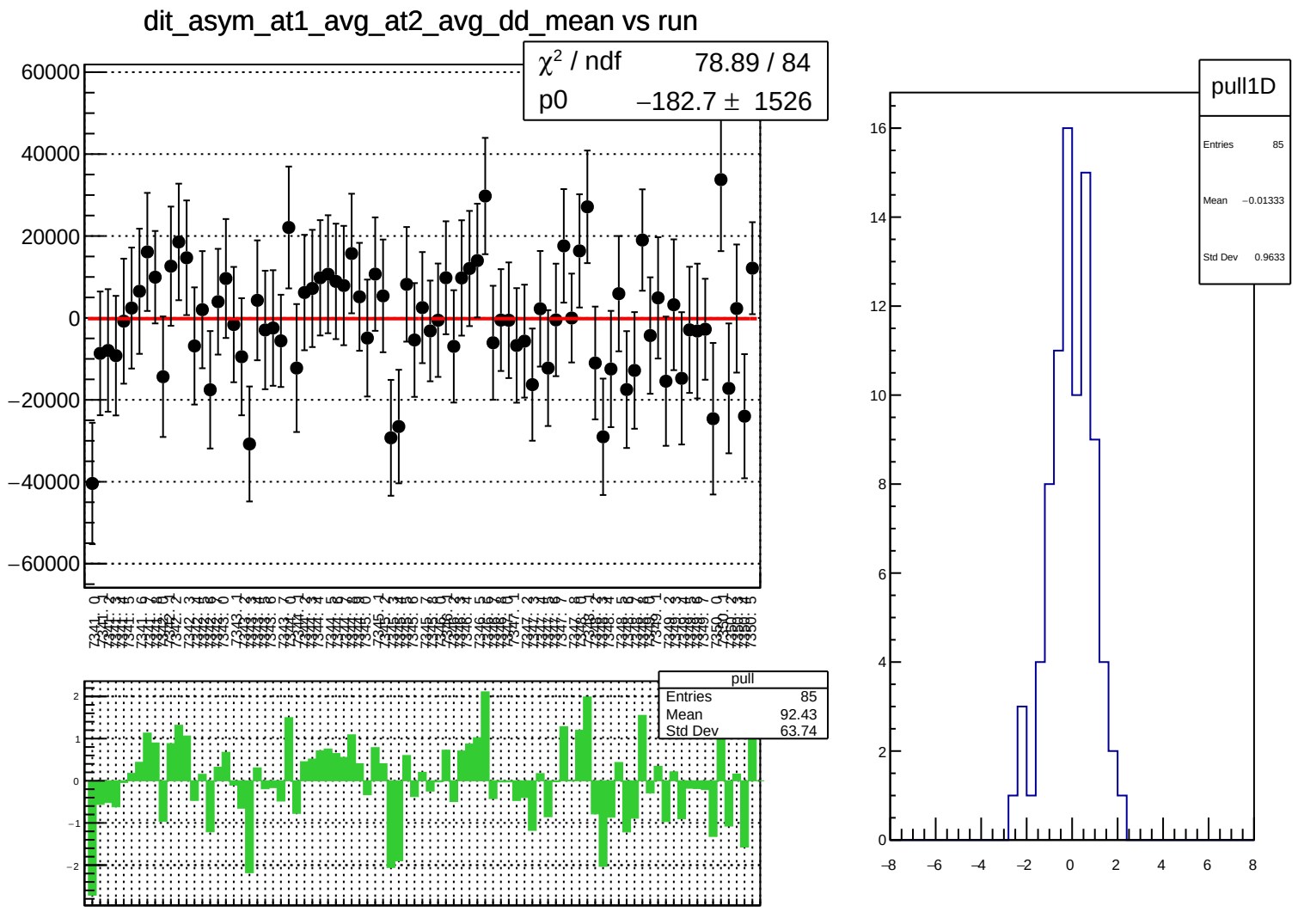

pull1D
Entries 85
Mean 0.0001699
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

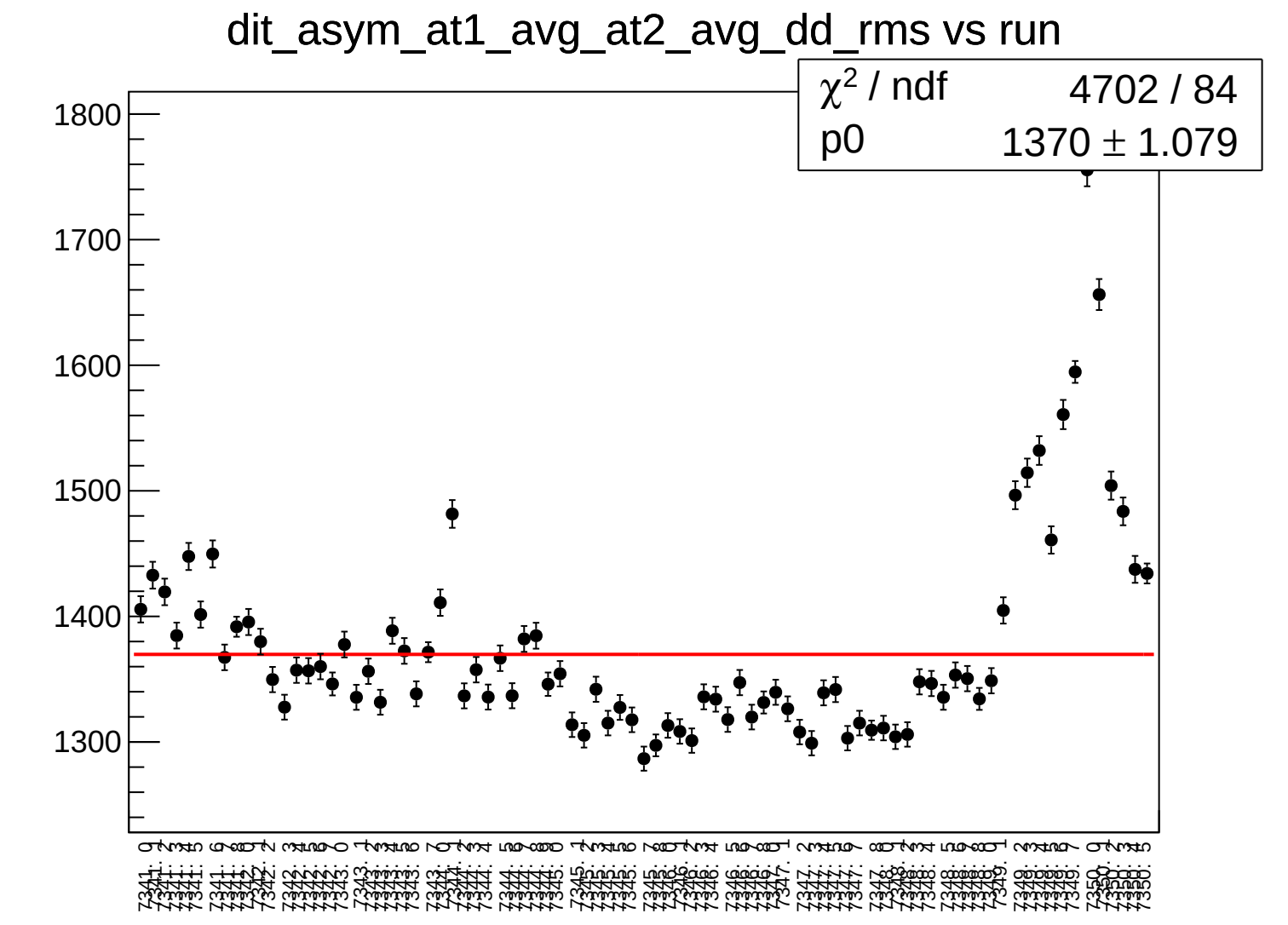

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 558.9 / 84
p0 1224 ± 0.9627
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

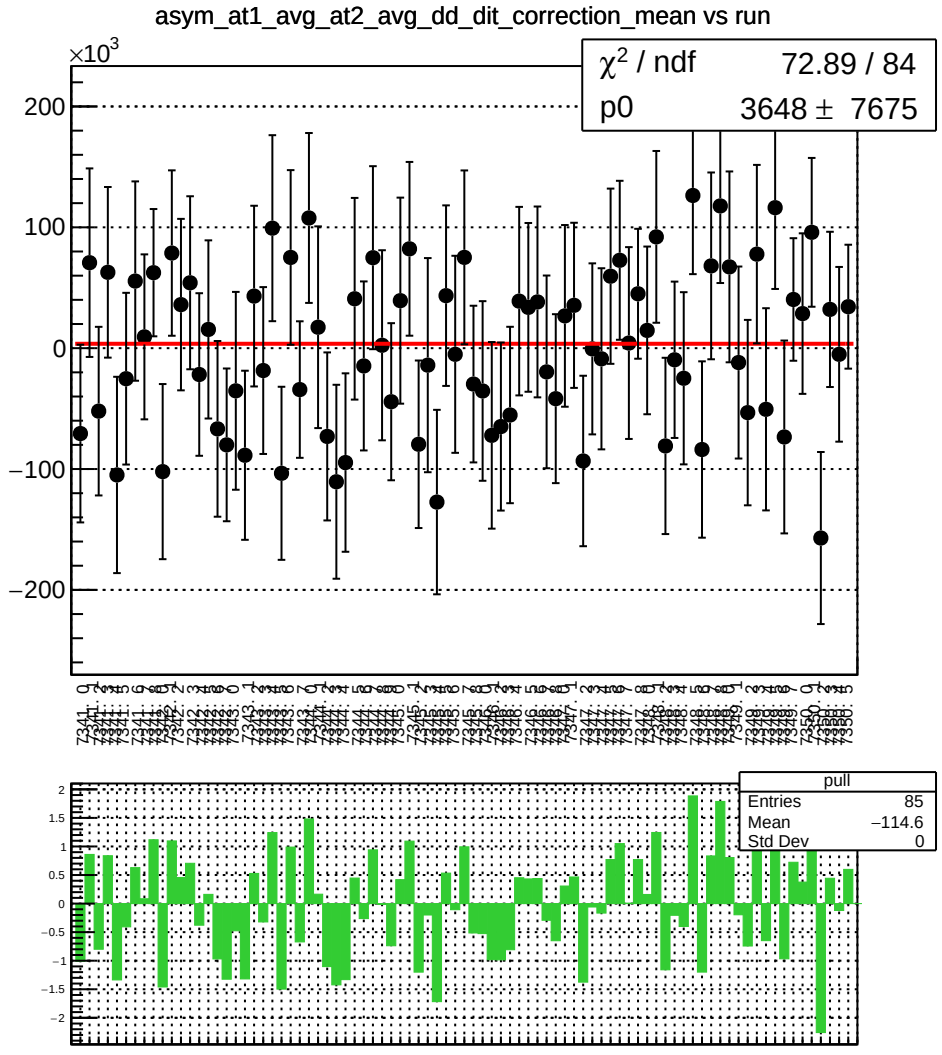

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 71.88 / 84
p0 3601 ± 7123
pull
Entries 85
Mean −118.6
Std Dev 0

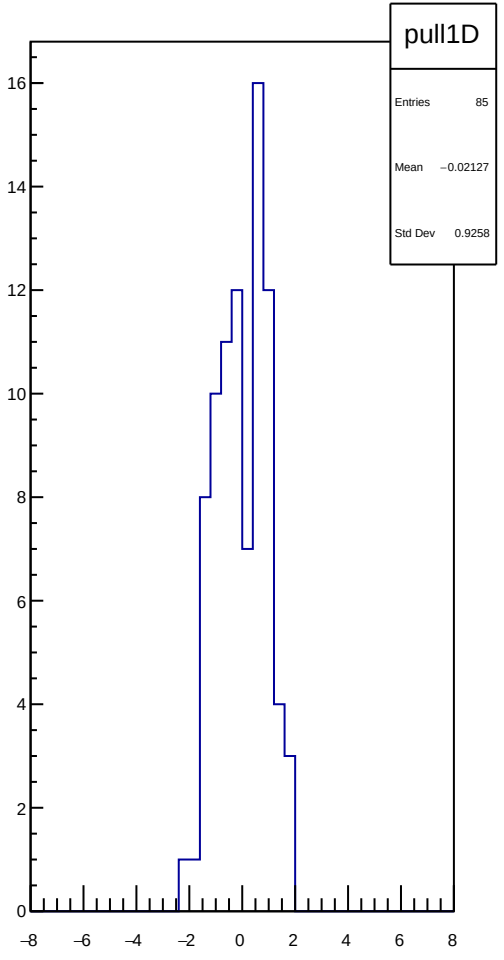

pull1D
Entries 85
Mean −0.02048
Std Dev 0.9194

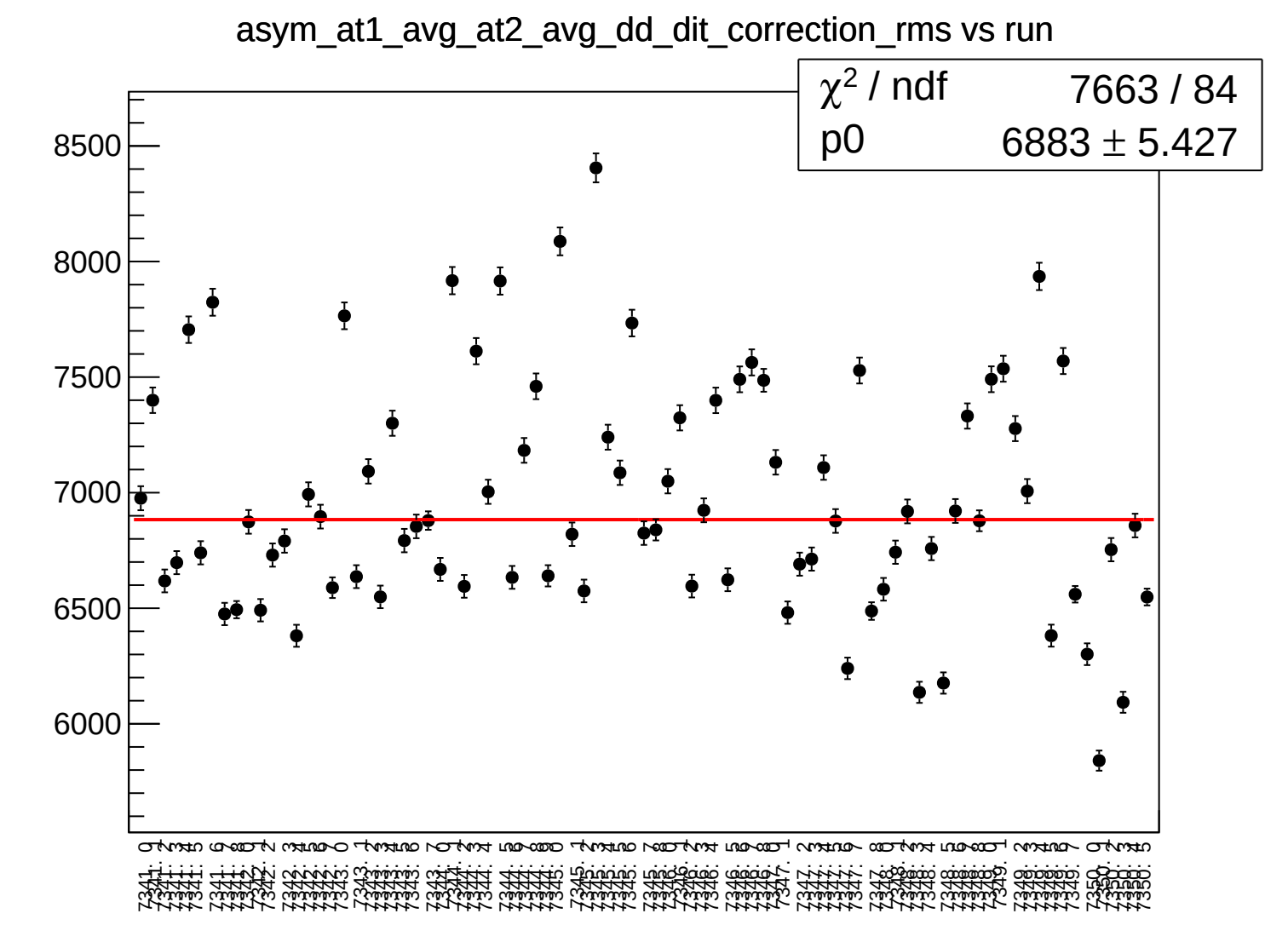

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8334 / 84
p0 6387 ± 5.037
8000
7500
7000
6500
6000
5500

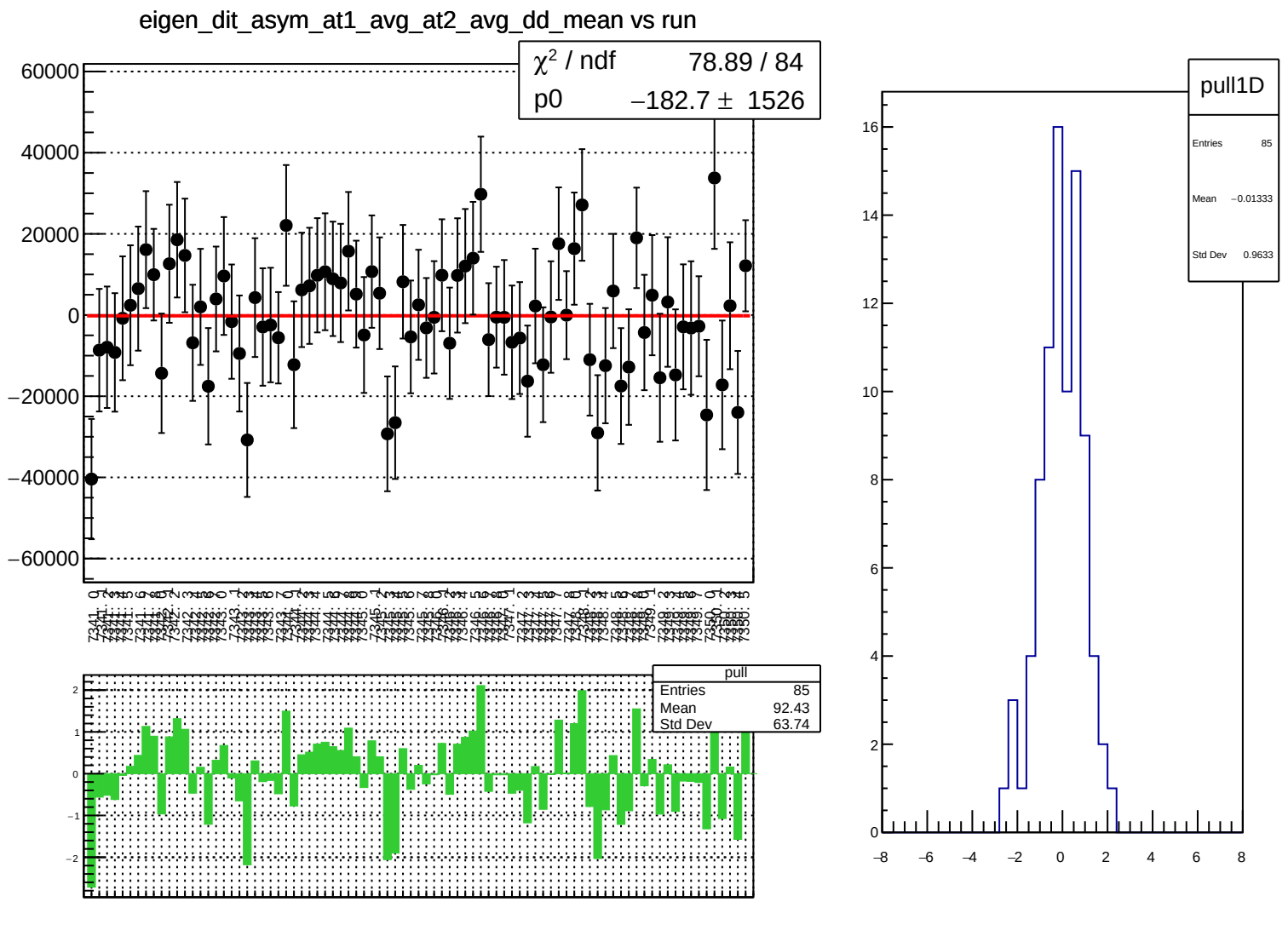

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.89 / 84
p0 −182.7 ± 1526
pull
Entries 85
Mean 92.43
Std Dev 63.74
pull1D
Entries 85
Mean −0.01333
Std Dev 0.9633

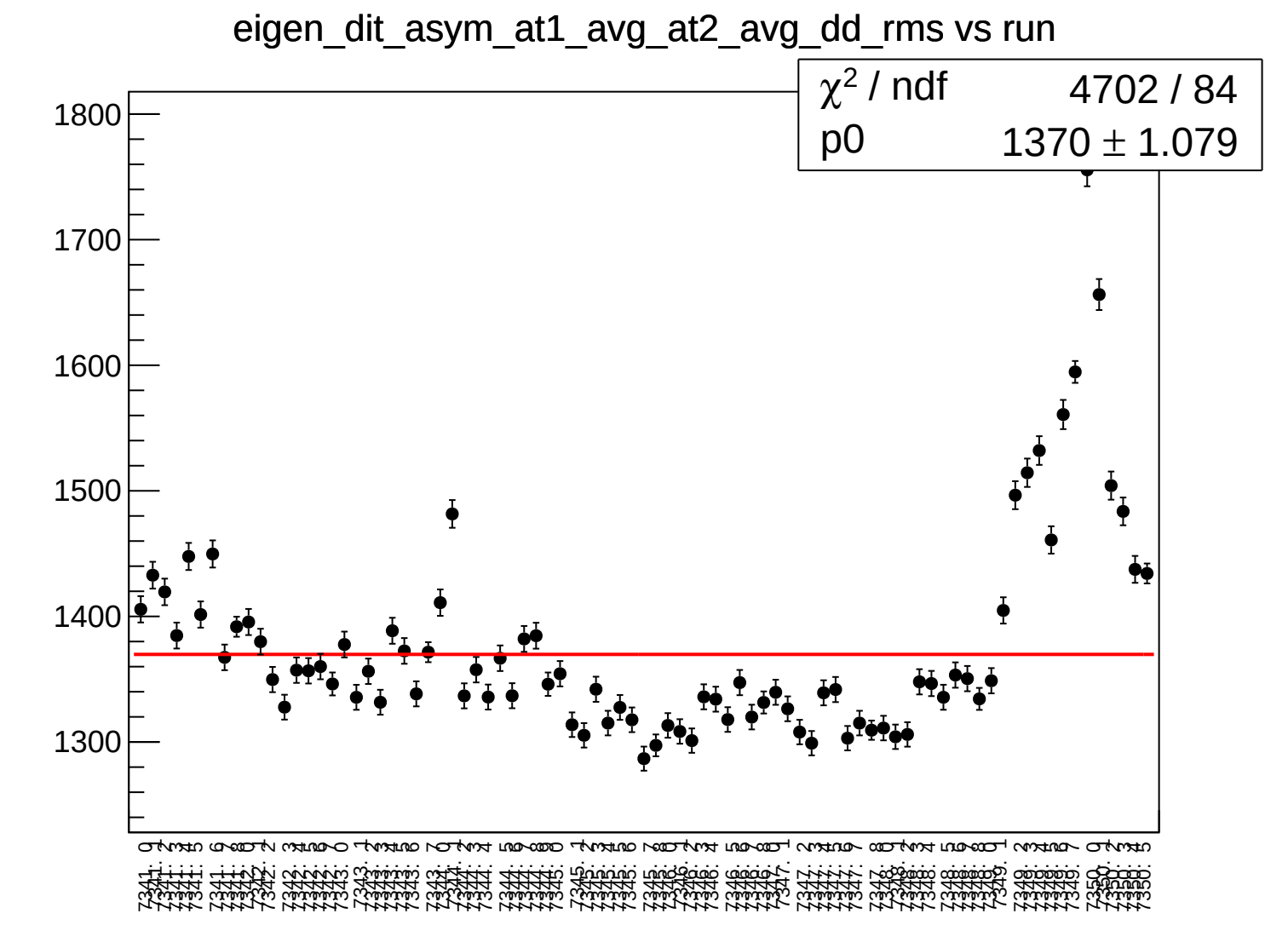

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 4702 / 84
p0 1370 ± 1.079
1800
1700
1600
1500
1400
1300

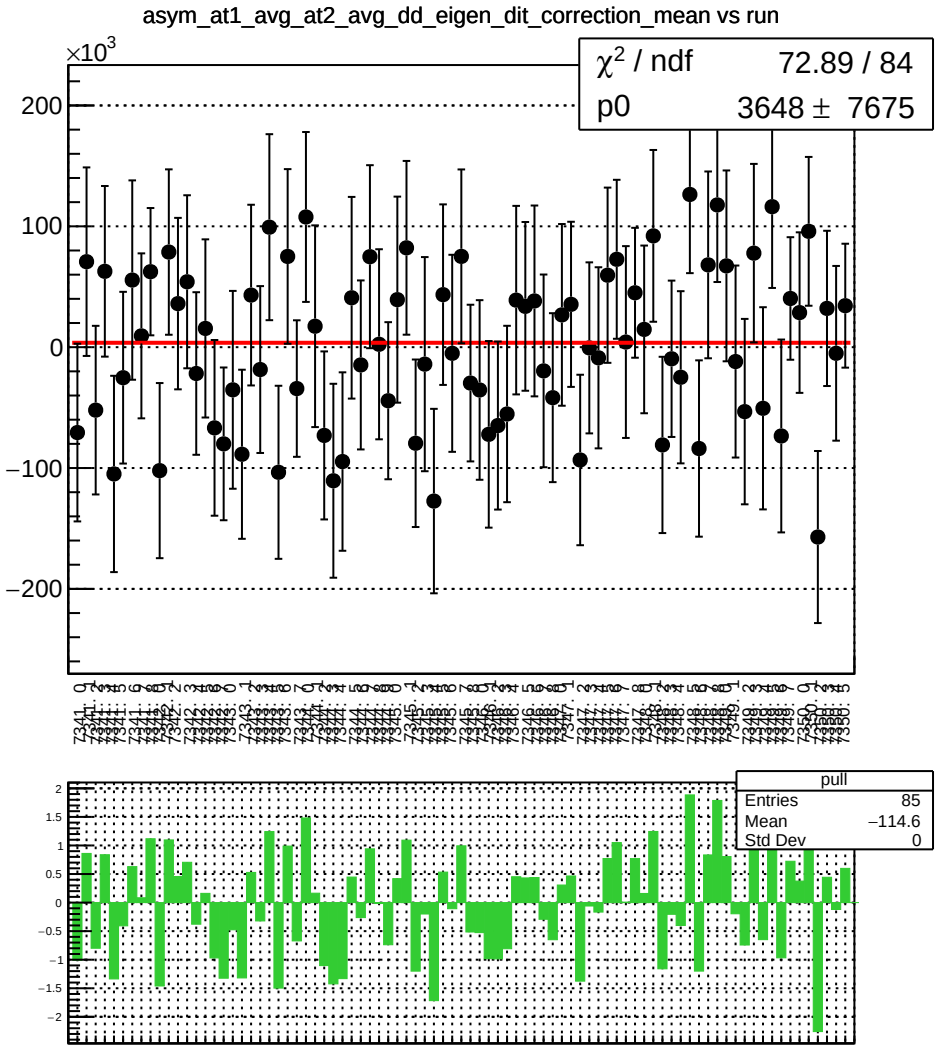

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
χ² / ndf 72.89 / 84
p0 3648 ± 7675
pull
Entries 85
Mean −114.6
Std Dev 0

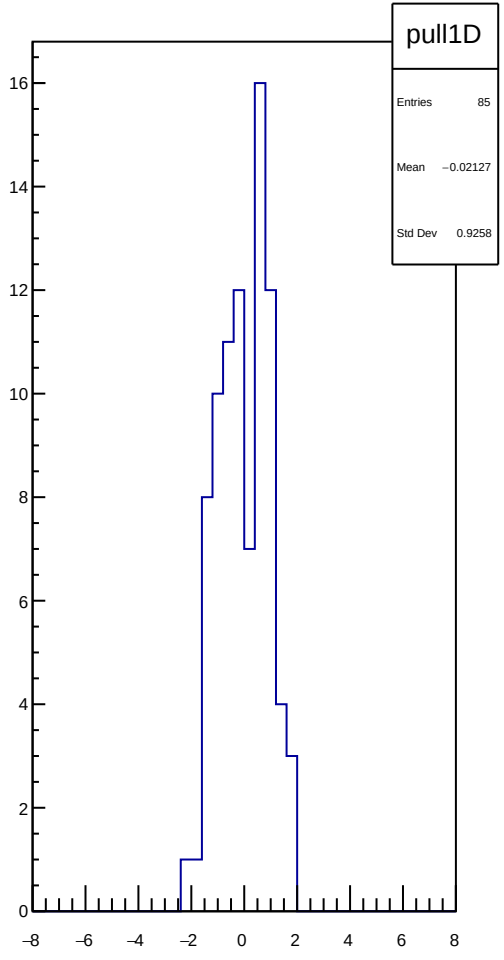

pull1D
Entries 85
Mean −0.02127
Std Dev 0.9258

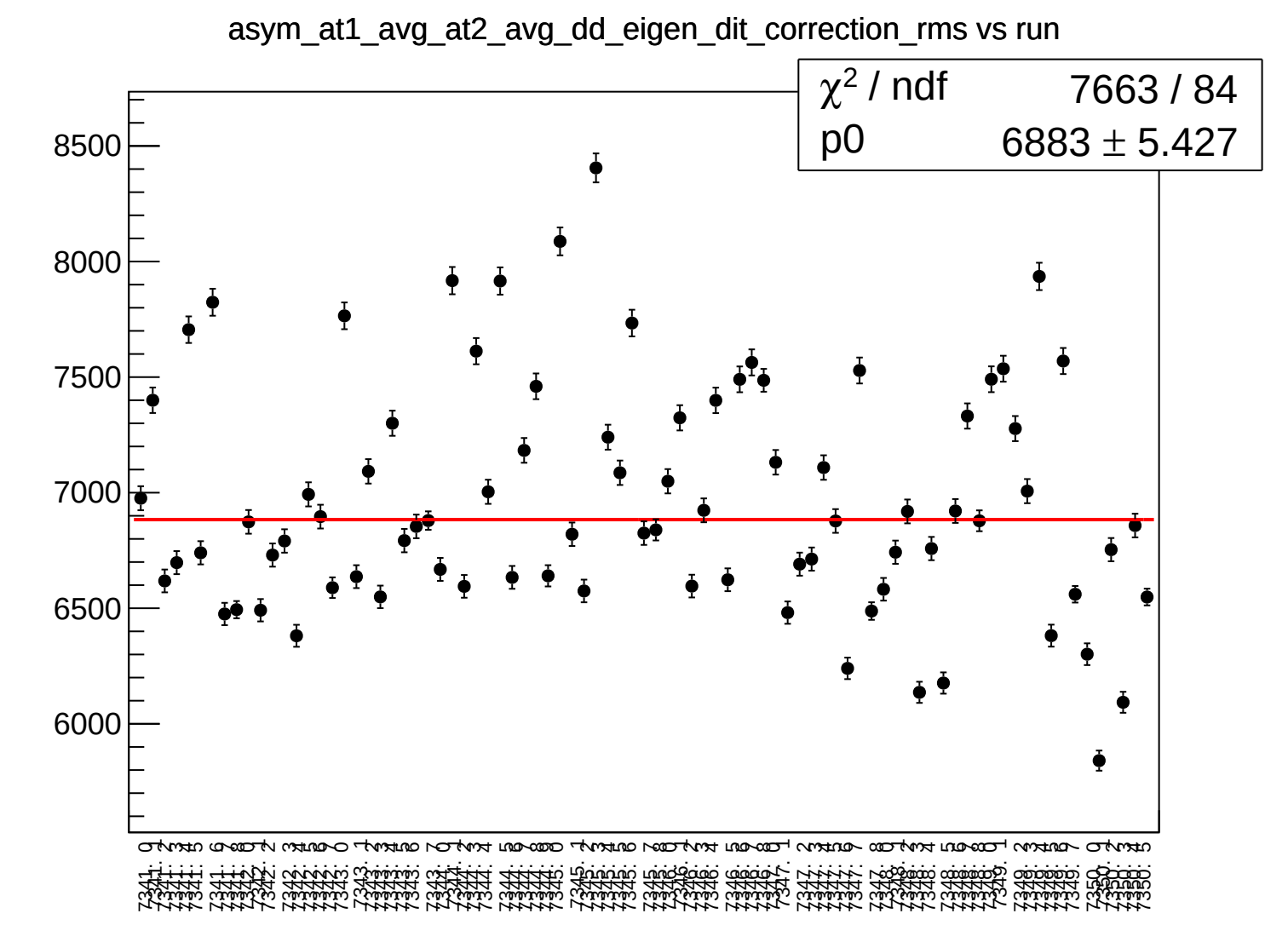

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 7663 / 84
p0 6883 ± 5.427
8500
8000
7500
7000
6500
6000

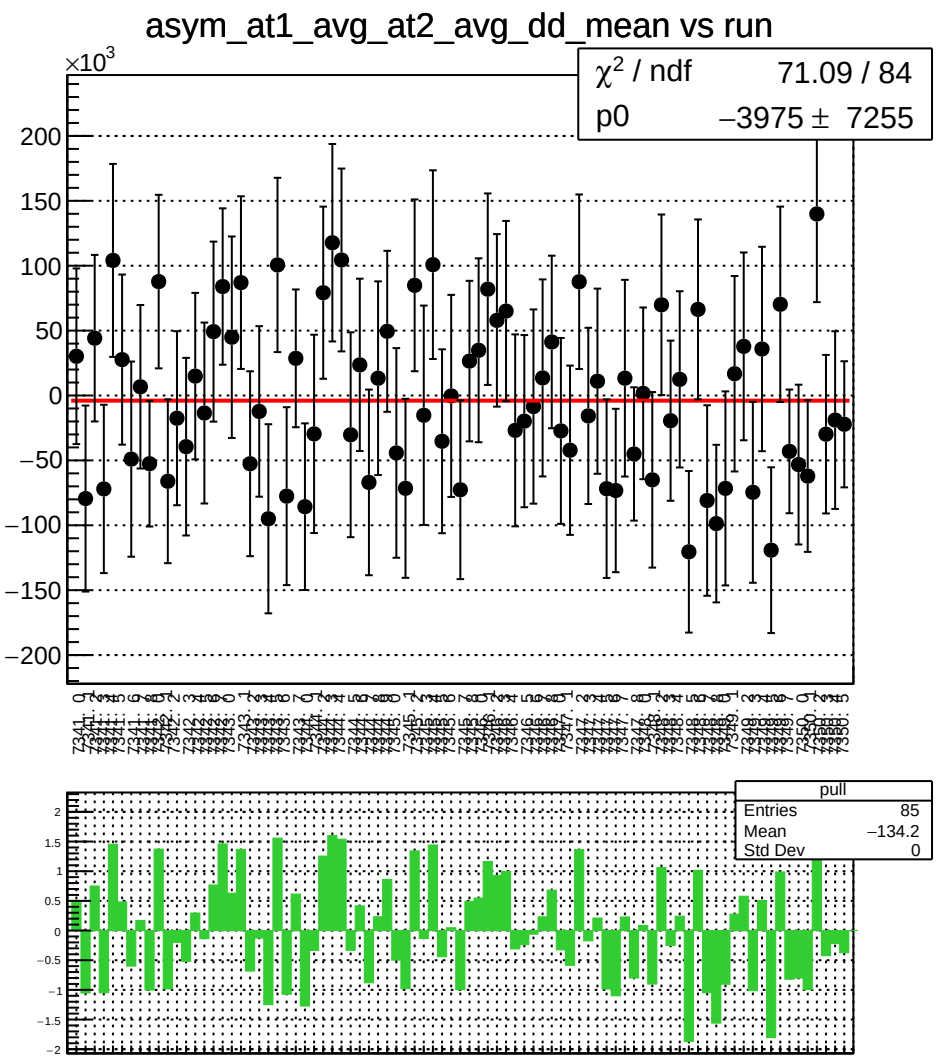

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.89 / 84
p0 −182.7 ± 1526
pull
Entries 85
Mean 92.43
Std Dev 63.74
pull1D
Entries 85
Mean −0.01333
Std Dev 0.9633

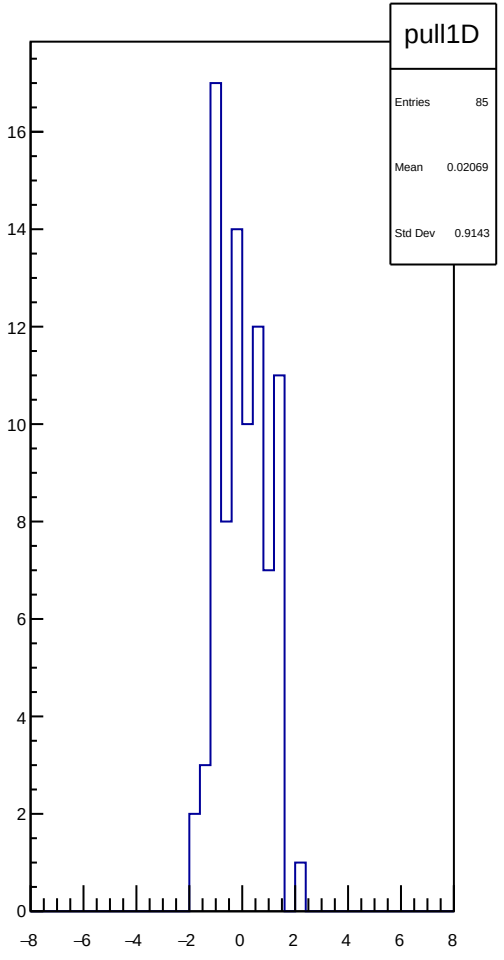

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 4702 / 84
p0 1370 ± 1.079
1800
1700
1600
1500
1400
1300

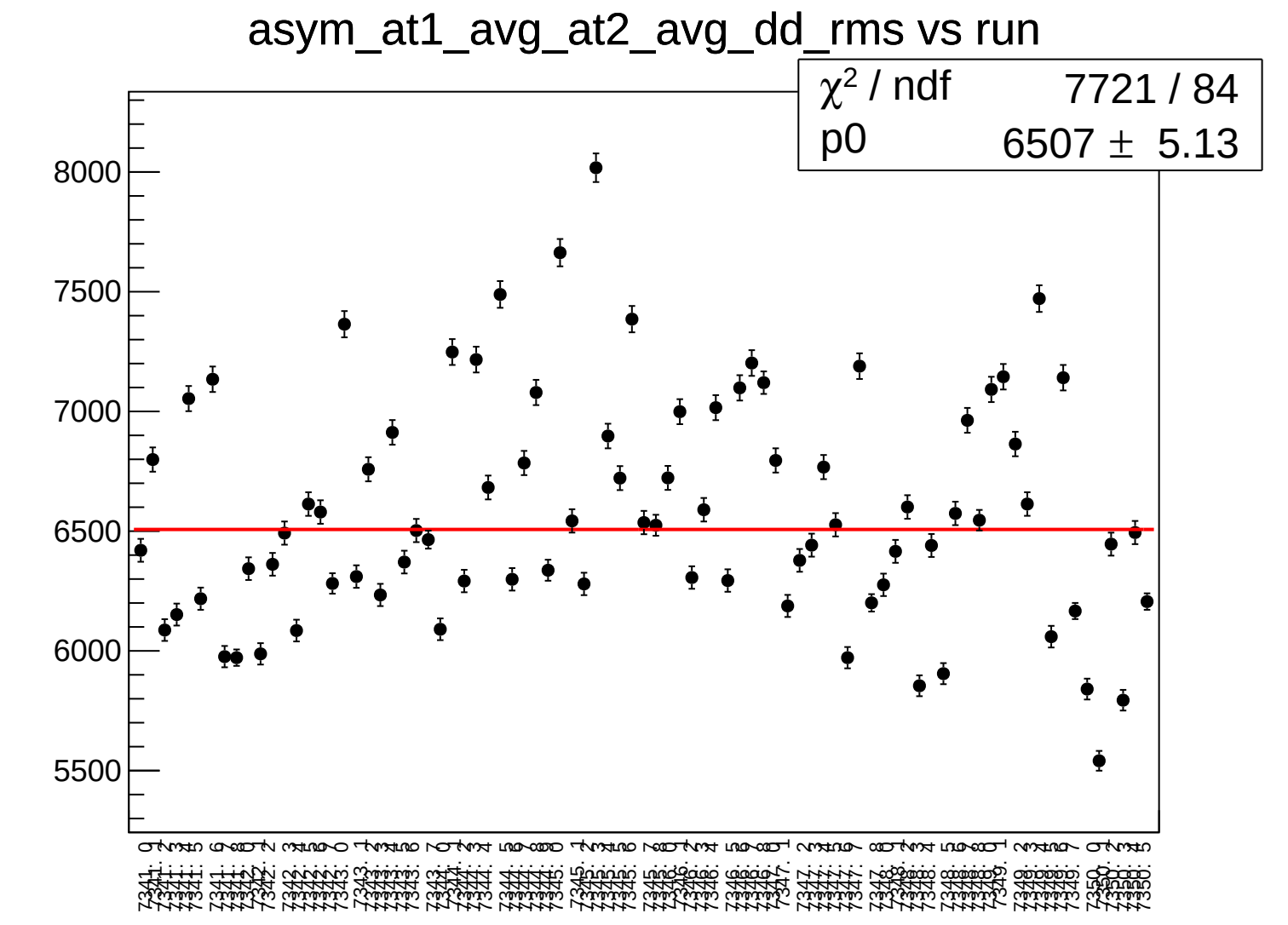

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.89 / 84
p0 3648 ± 7675
200
100
0
−100
−200
pull
Entries 85
Mean −114.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

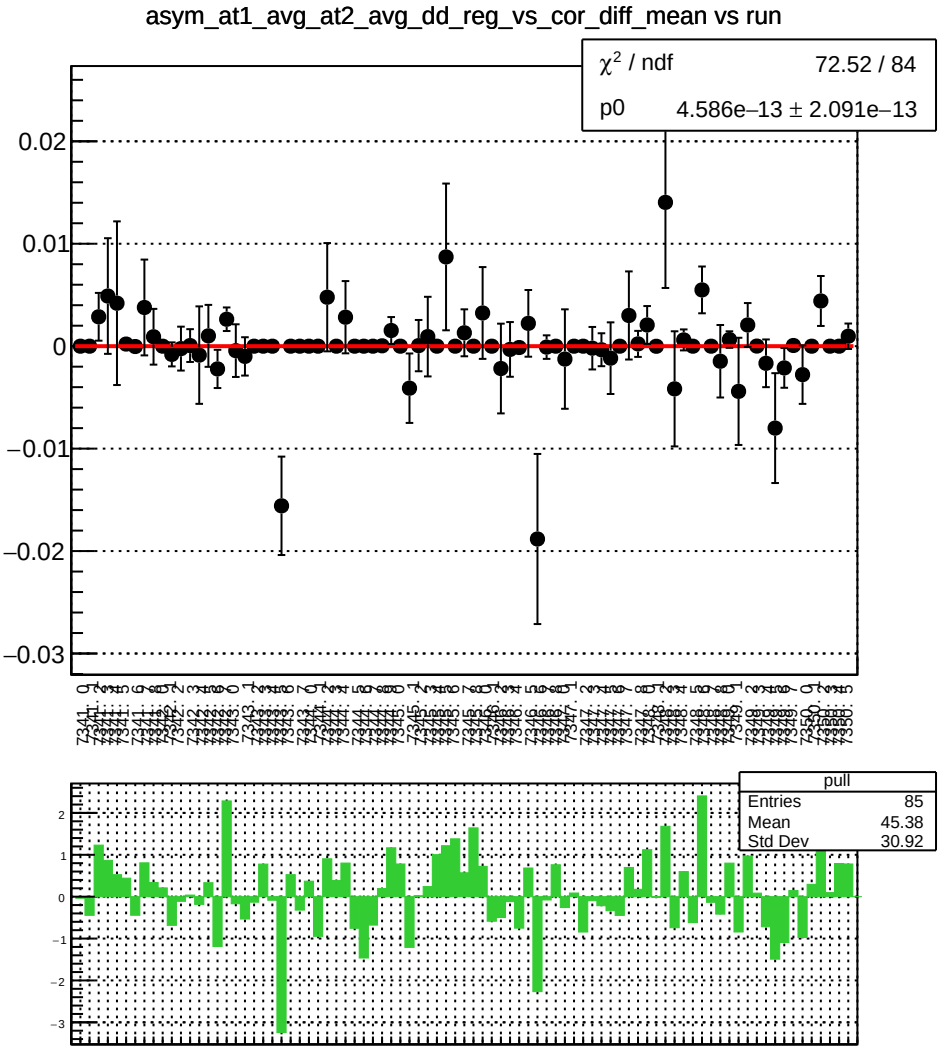

pull1D
Entries 85
Mean −0.02127
Std Dev 0.9258
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

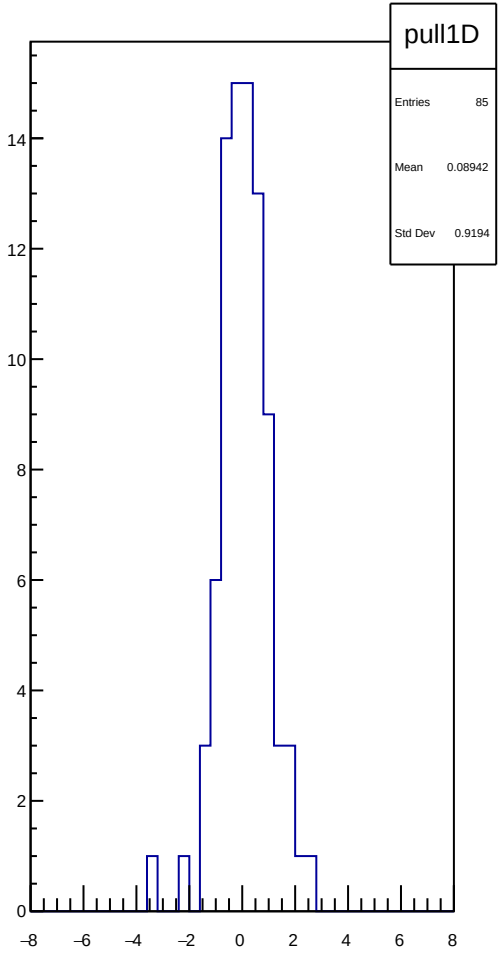

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 7663 / 84
p0 6883 ± 5.427
8500
8000
7500
7000
6500
6000

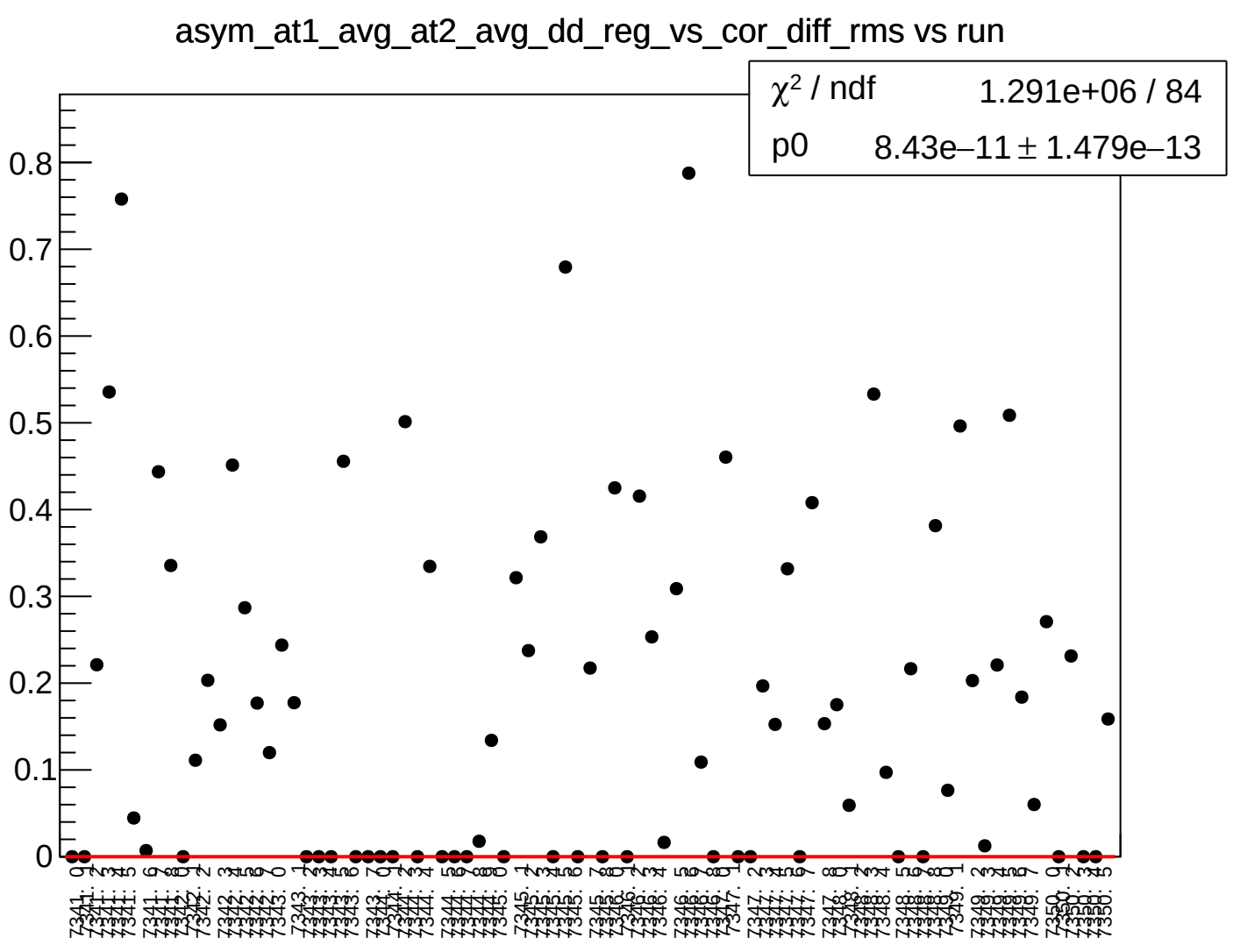

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 71.09 / 84
p0 −3975 ± 7255
pull
Entries 85
Mean −134.2
Std Dev 0

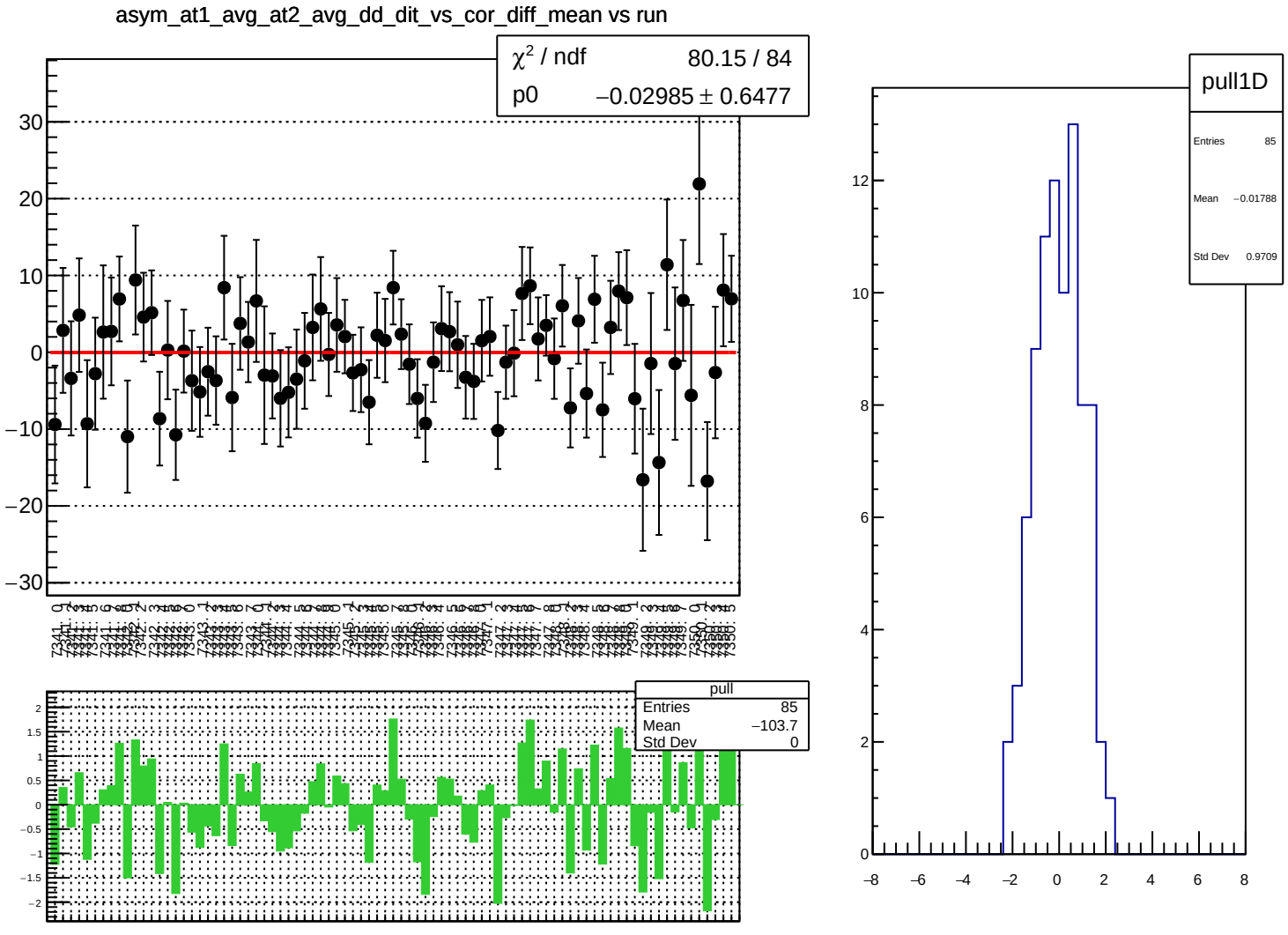

pull1D
Entries 85
Mean 0.02069
Std Dev 0.9143

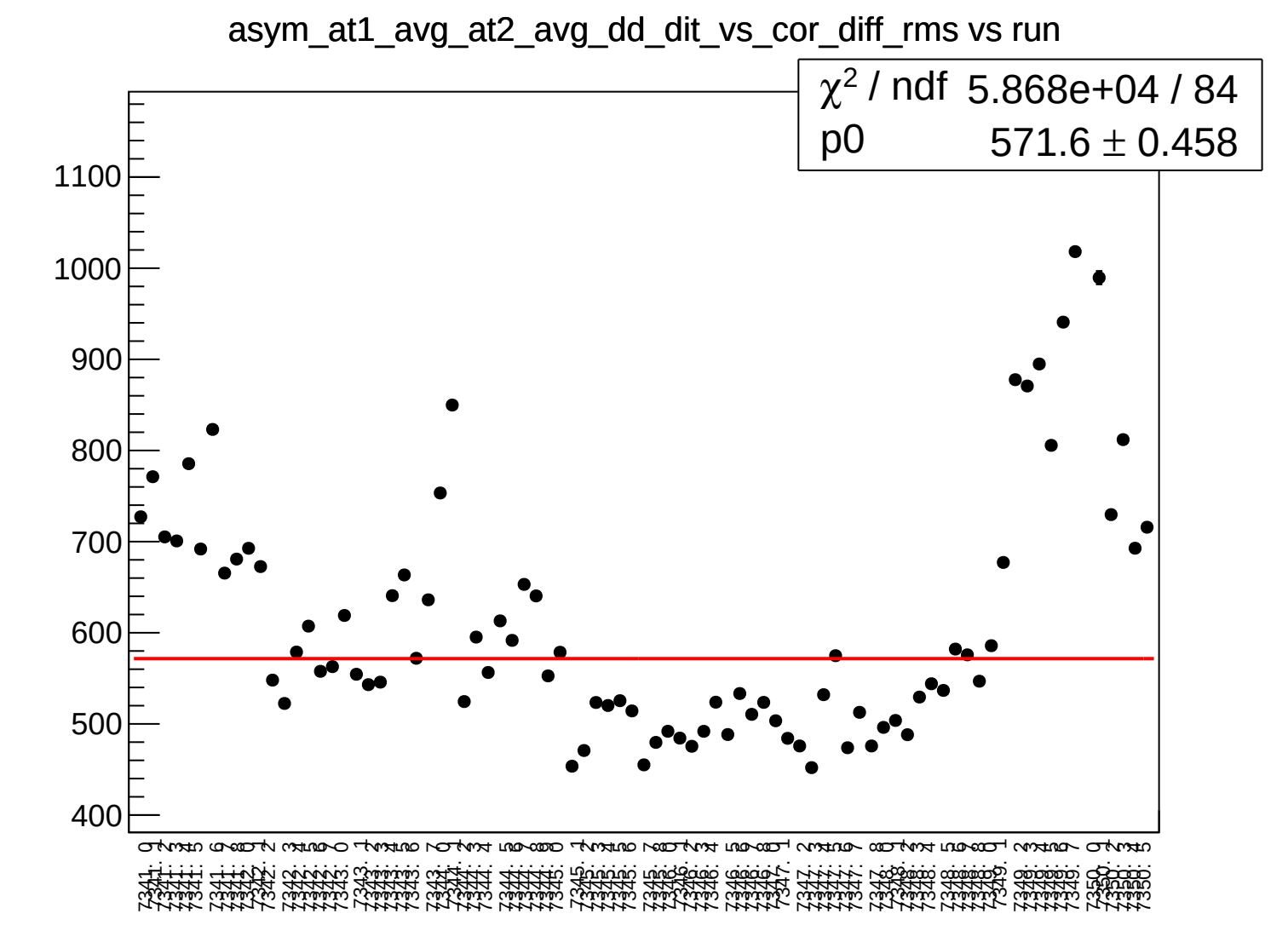

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 7721 / 84
p0 6507 ± 5.13
8000
7500
7000
6500
6000
5500

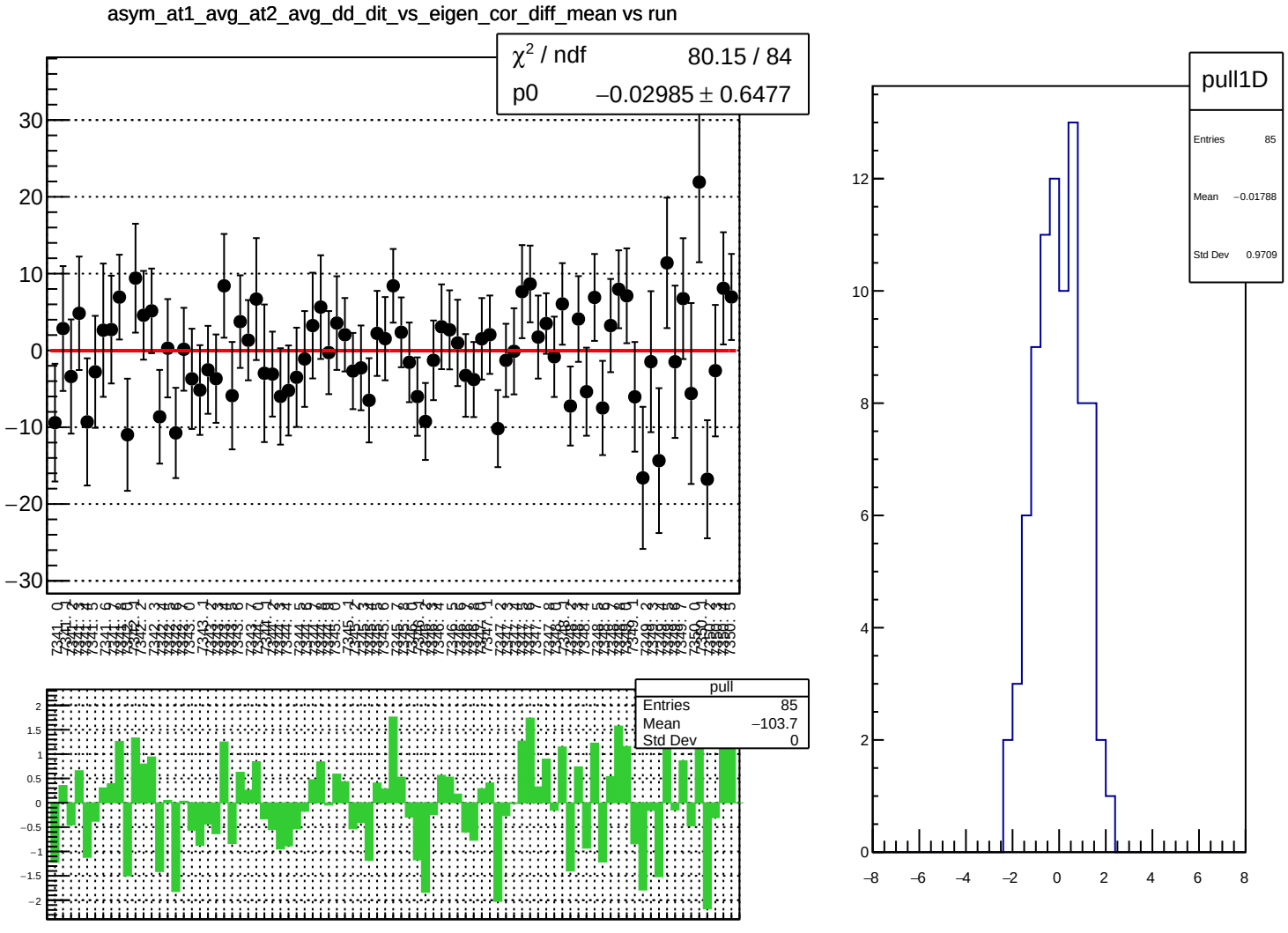

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.52 / 84
p0 4.586e−13 ± 2.091e−13
pull
Entries 85
Mean 45.38
Std Dev 30.92

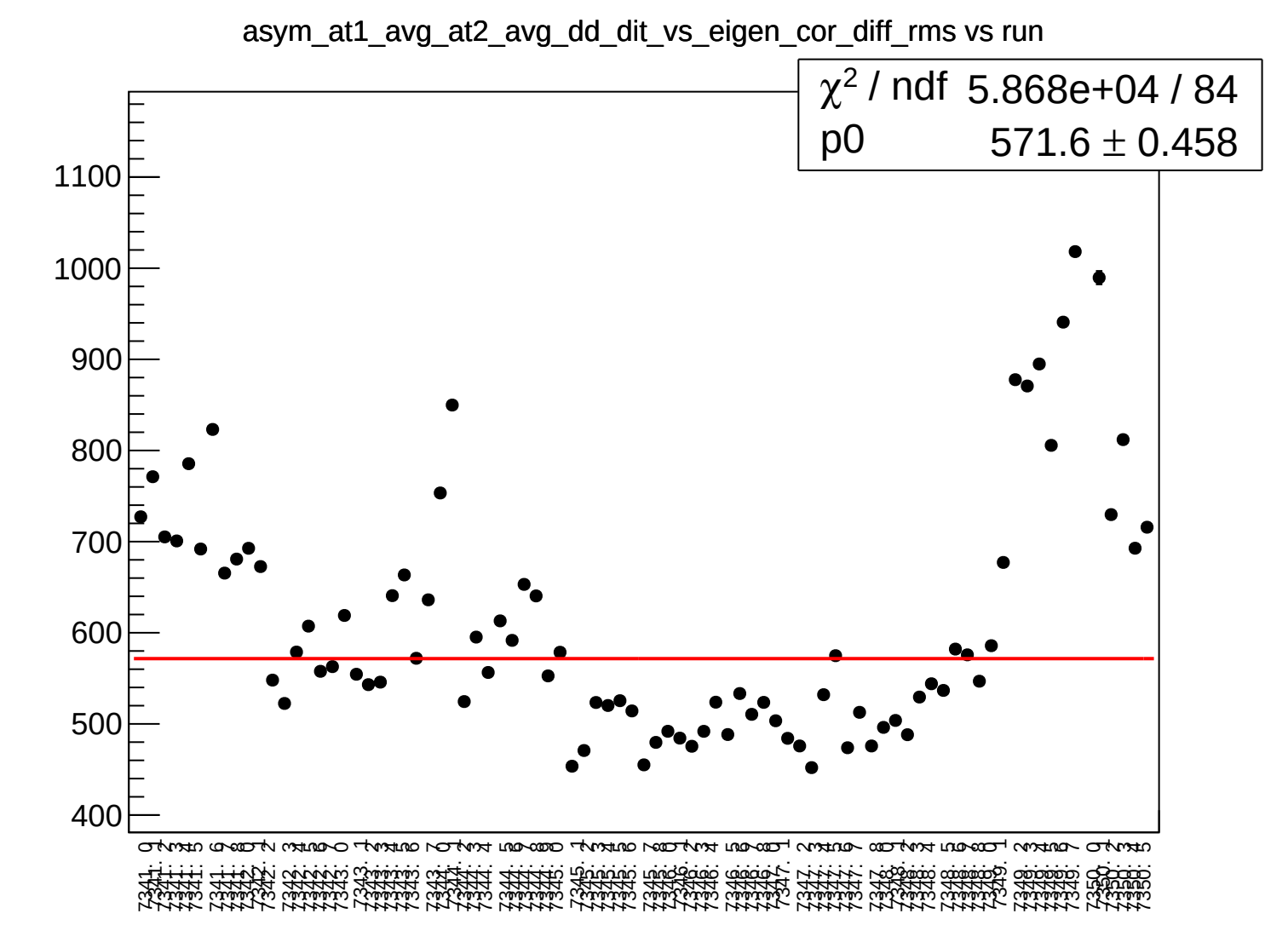

pull1D
Entries 85
Mean 0.08942
Std Dev 0.9194

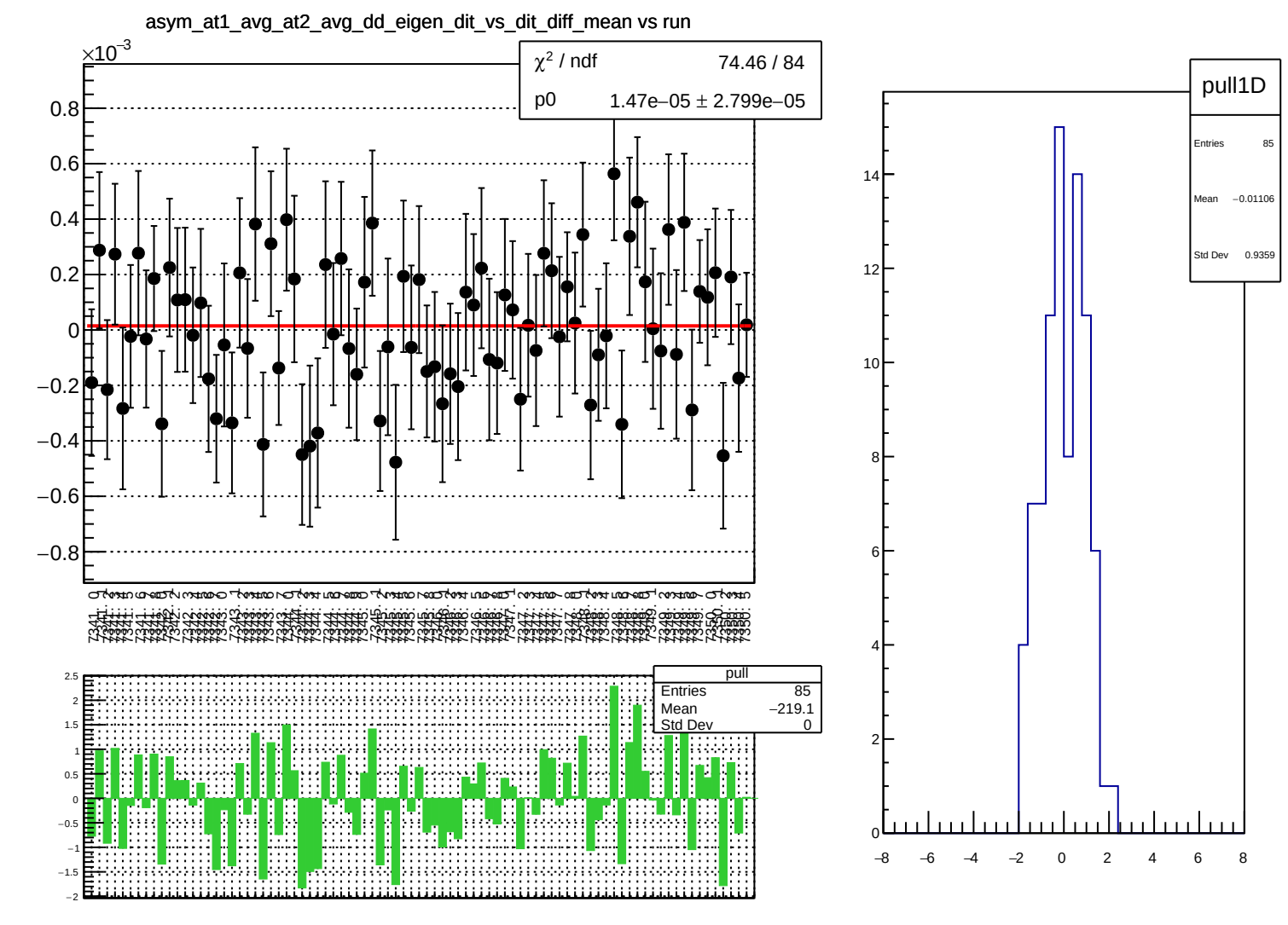

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.291e+06 / 84
p0 8.43e−11 ± 1.479e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

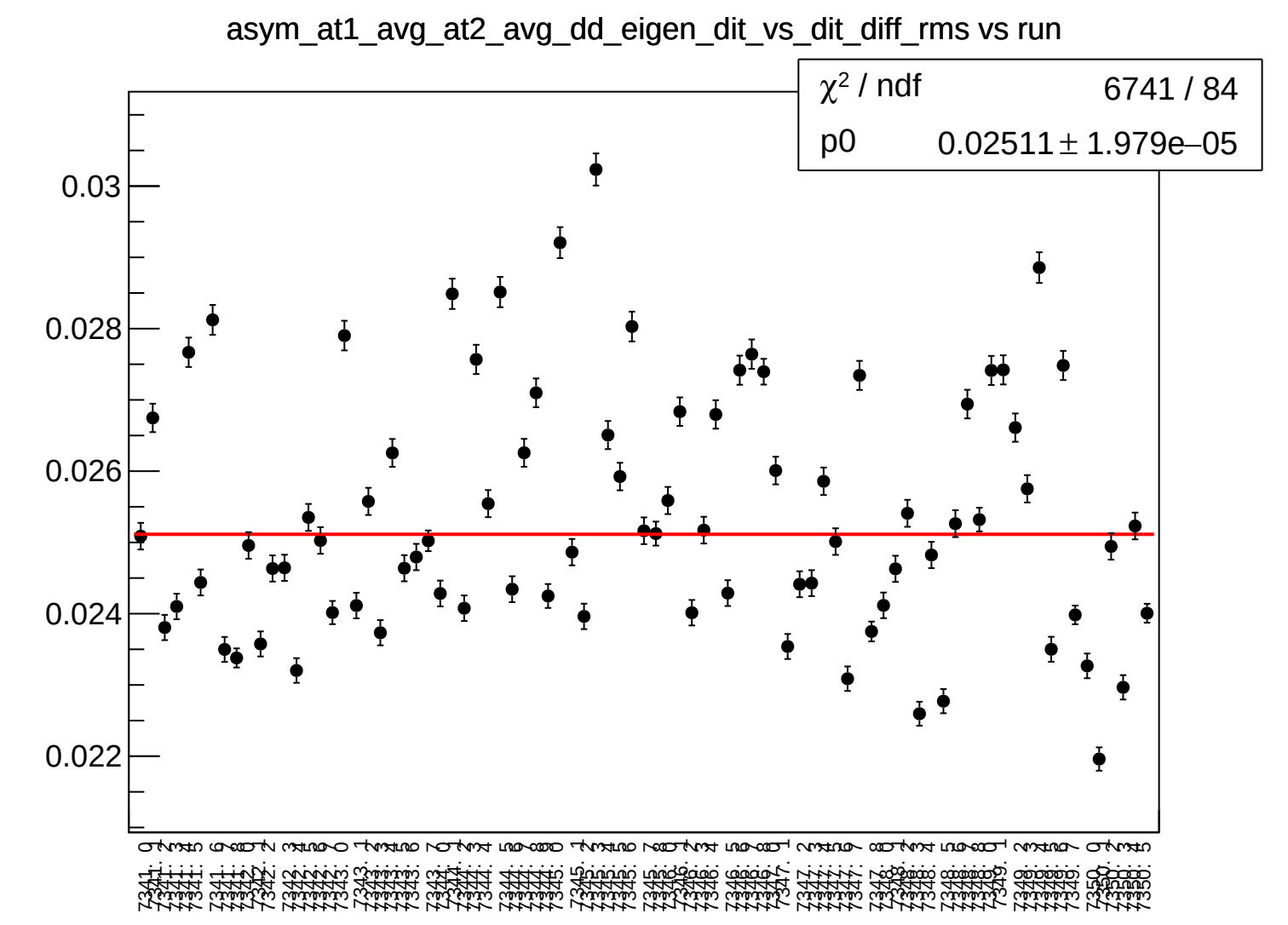

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.15 / 84
p0 −0.02985 ± 0.6477
pull
Entries 85
Mean −103.7
Std Dev 0
pull1D
Entries 85
Mean −0.01788
Std Dev 0.9709


asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

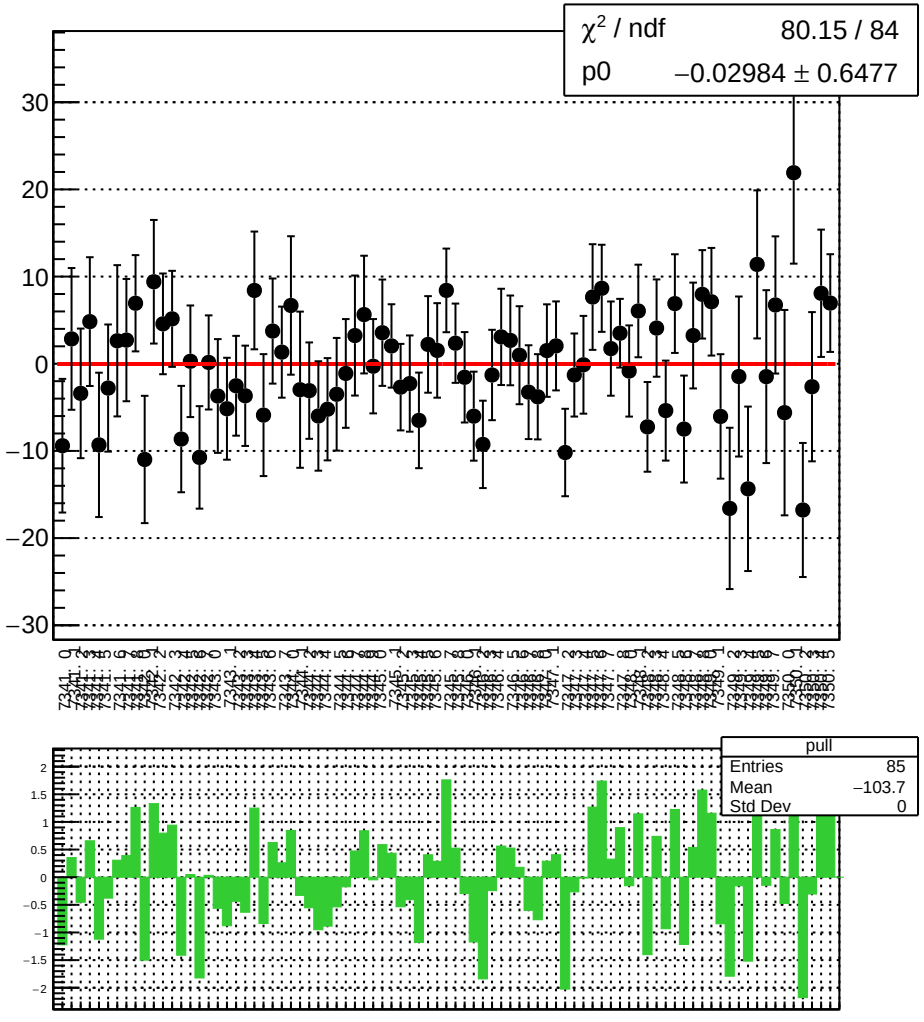

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.15 / 84
p0 −0.02985 ± 0.6477
pull
Entries 85
Mean −103.7
Std Dev 0
pull1D
Entries 85
Mean −0.01788
Std Dev 0.9709

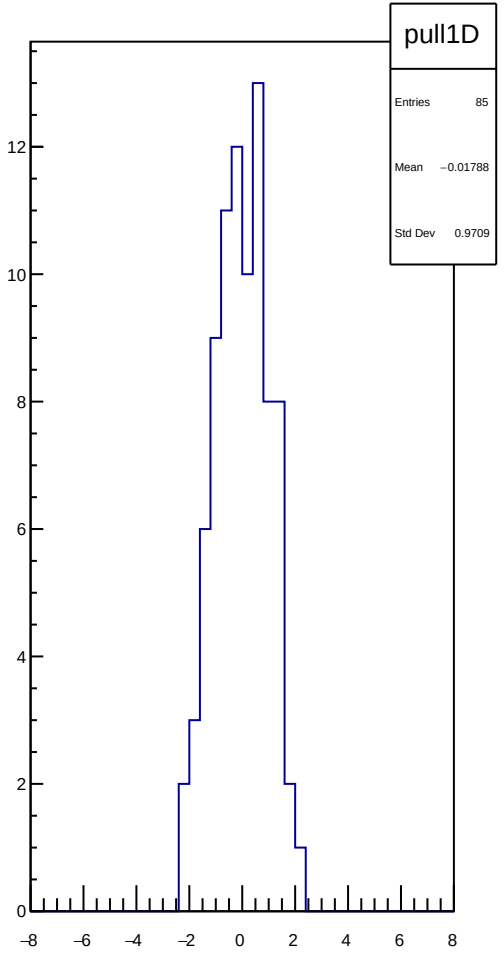

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

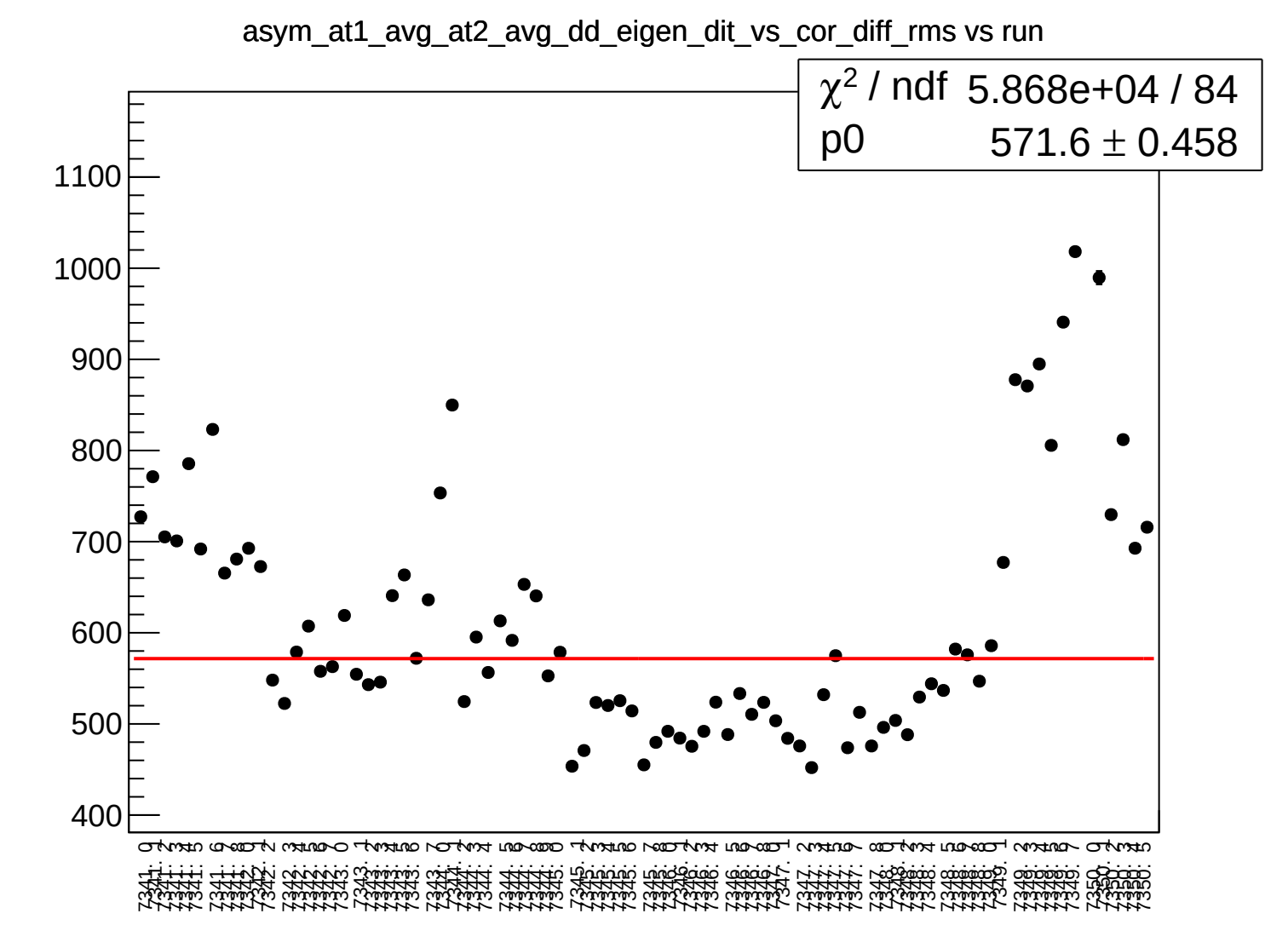

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.46 / 84
p0 1.47e−05 ± 2.799e−05
pull
Entries 85
Mean −219.1
Std Dev 0
pull1D
Entries 85
Mean −0.01106
Std Dev 0.9359

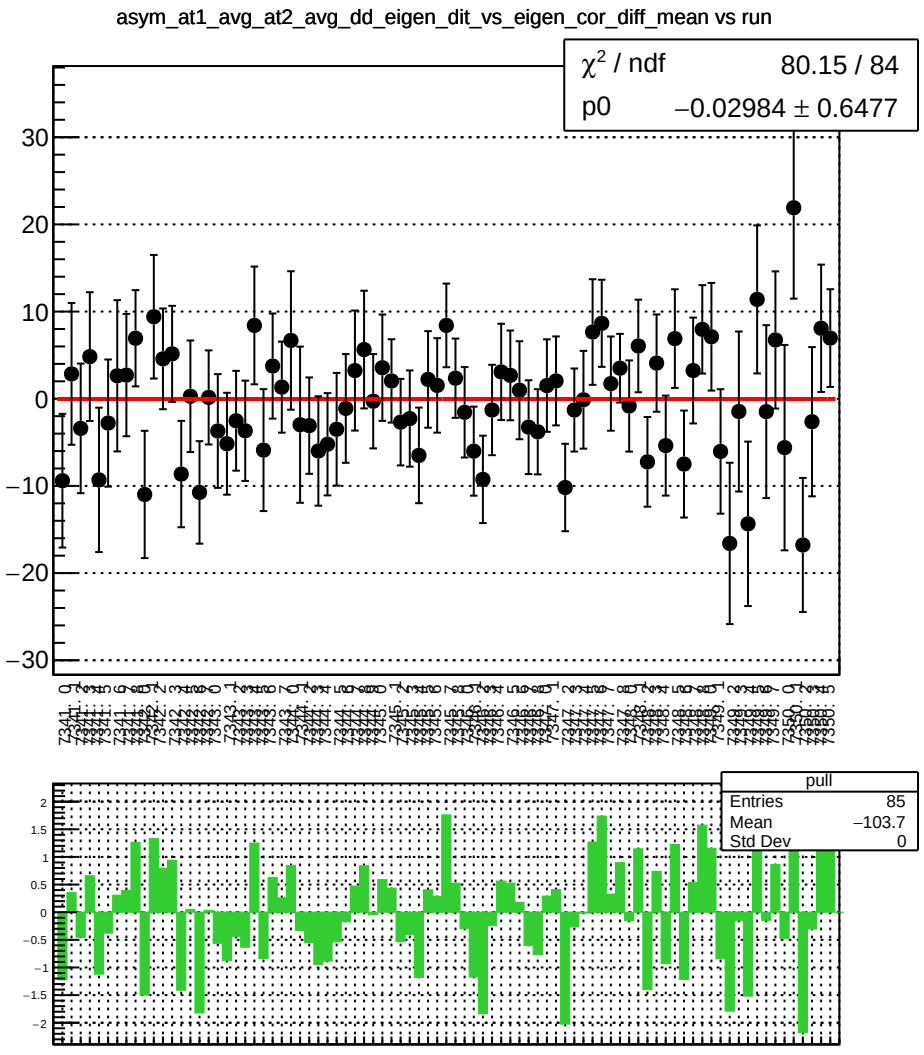

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6741 / 84
p0 0.02511 ± 1.979e−05
0.03
0.028
0.026
0.024
0.022

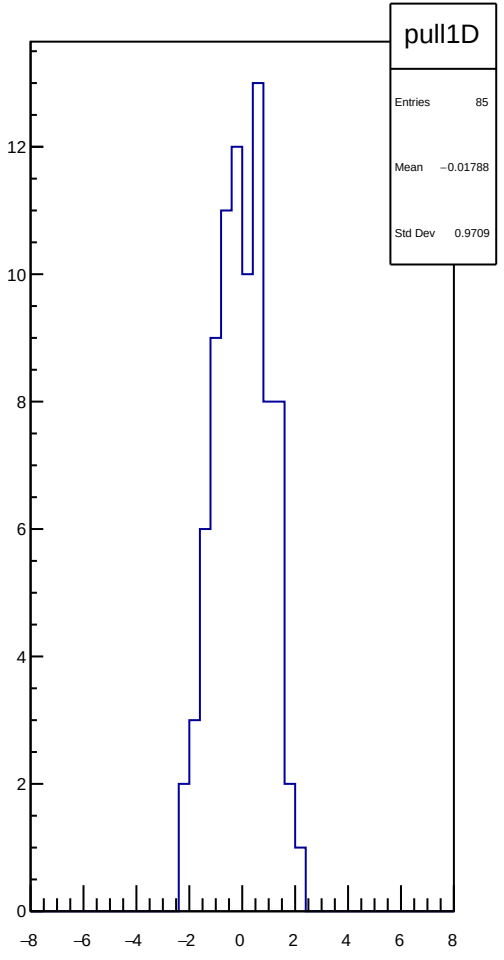
asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run

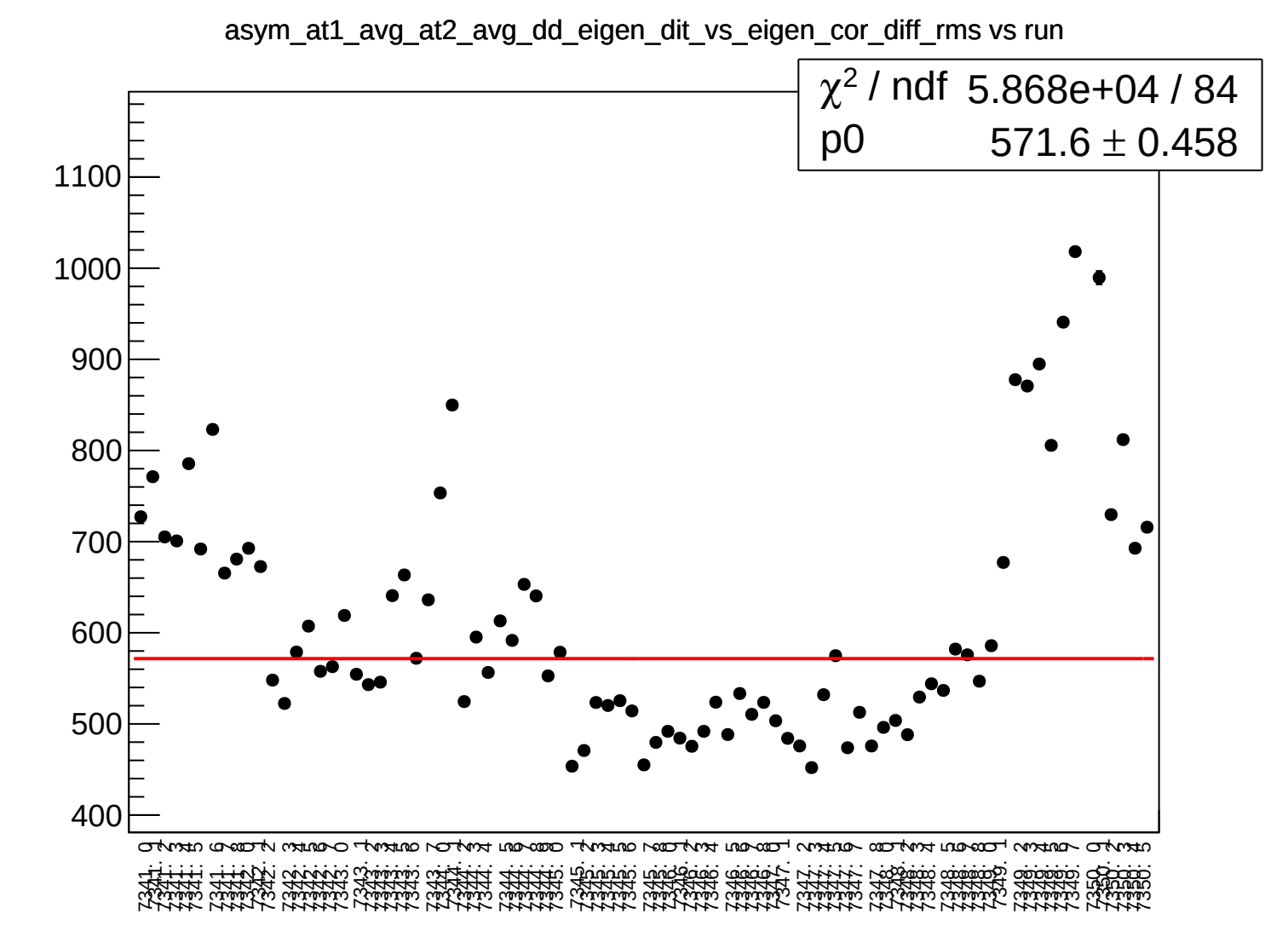


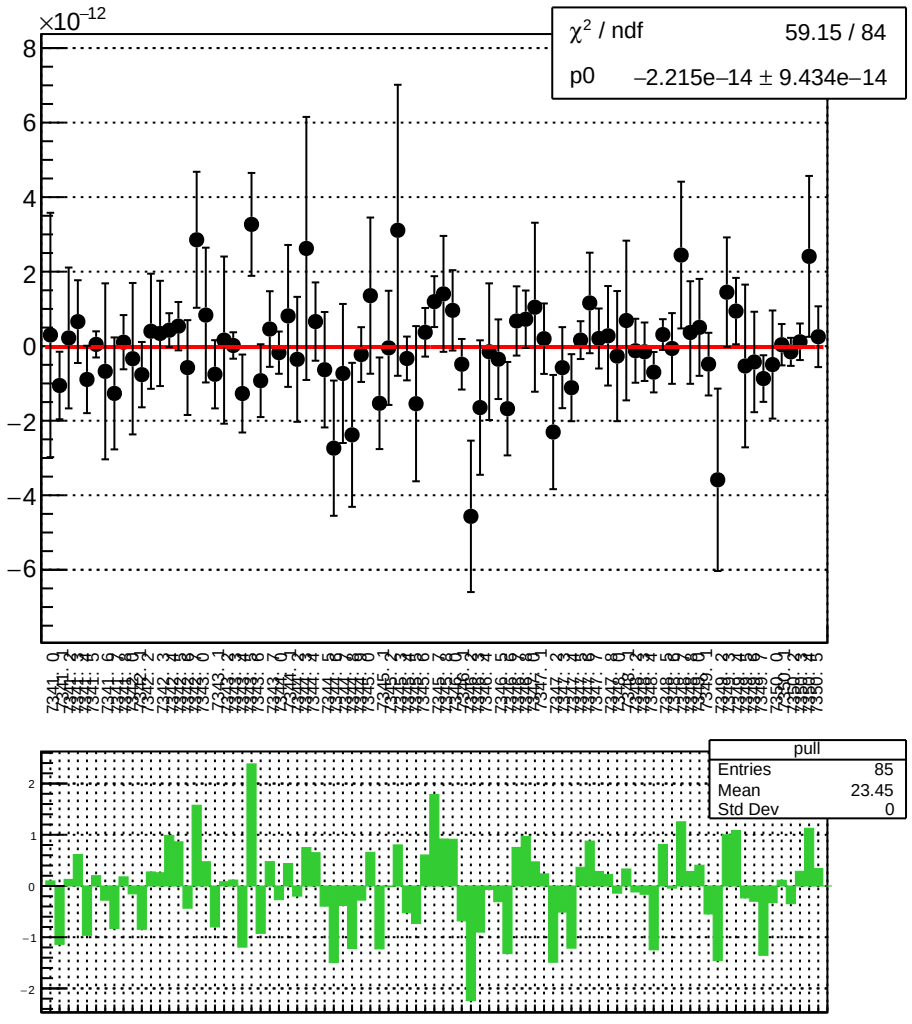


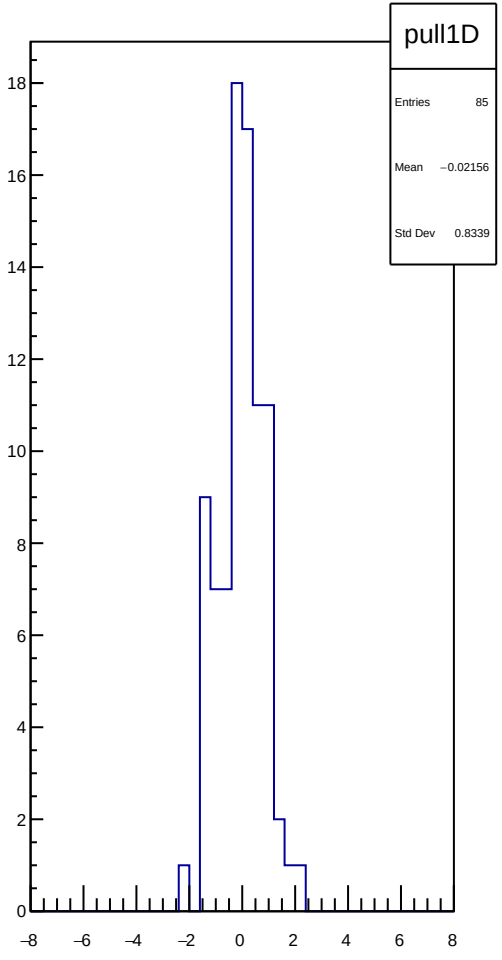

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

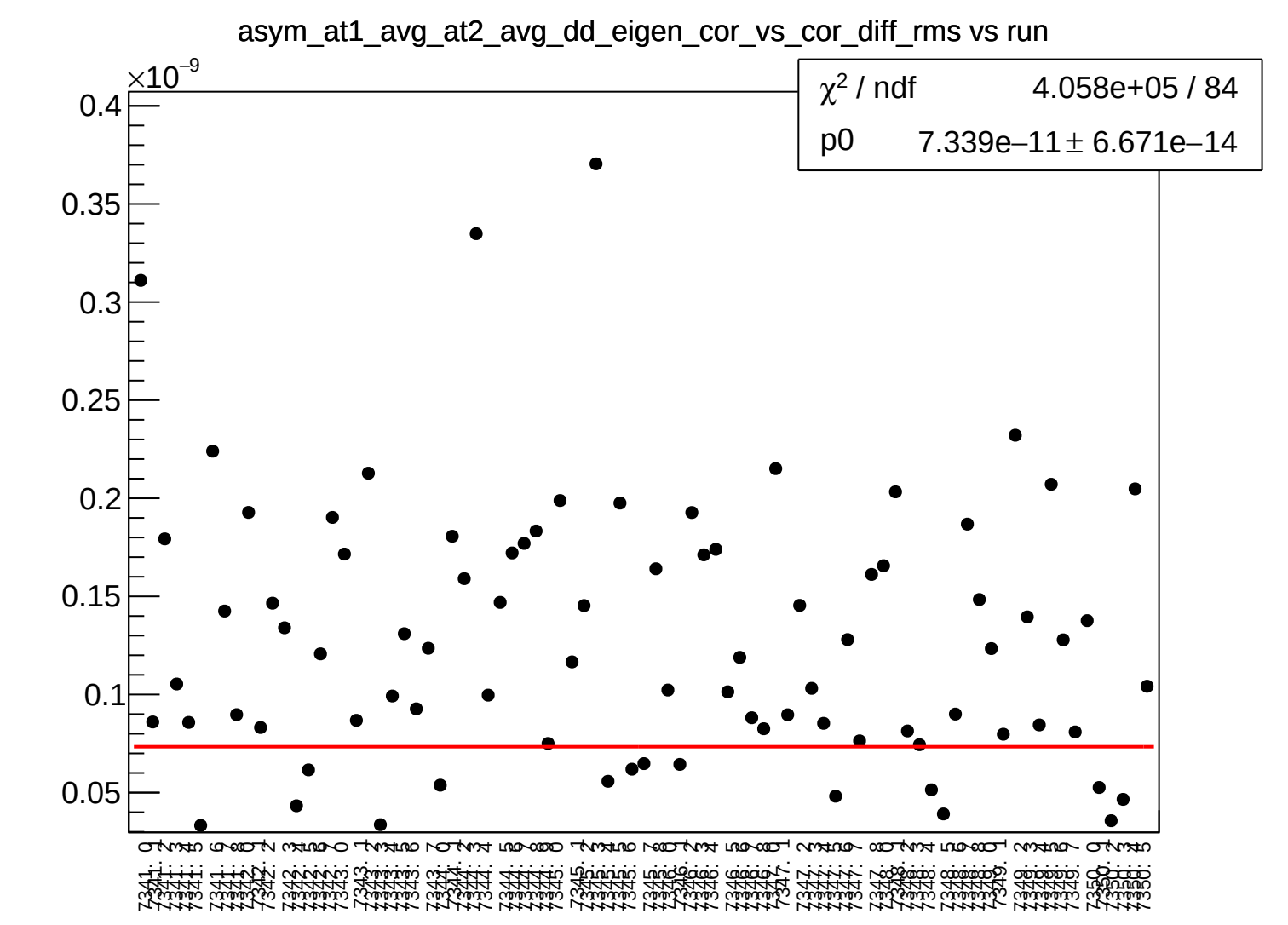

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.15 / 84
p0 −0.02984 ± 0.6477
pull
Entries 85
Mean −103.7
Std Dev 0

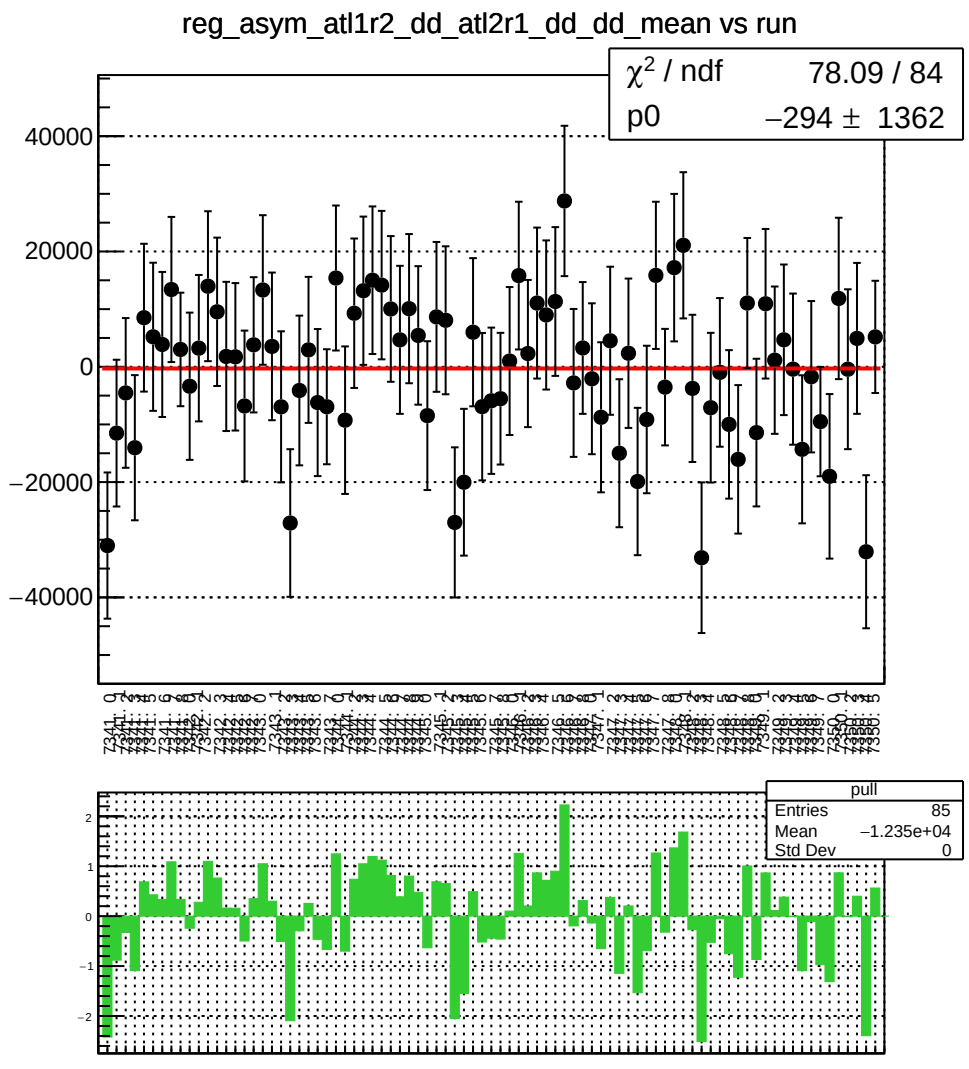

pull1D
Entries 85
Mean −0.01788
Std Dev 0.9709

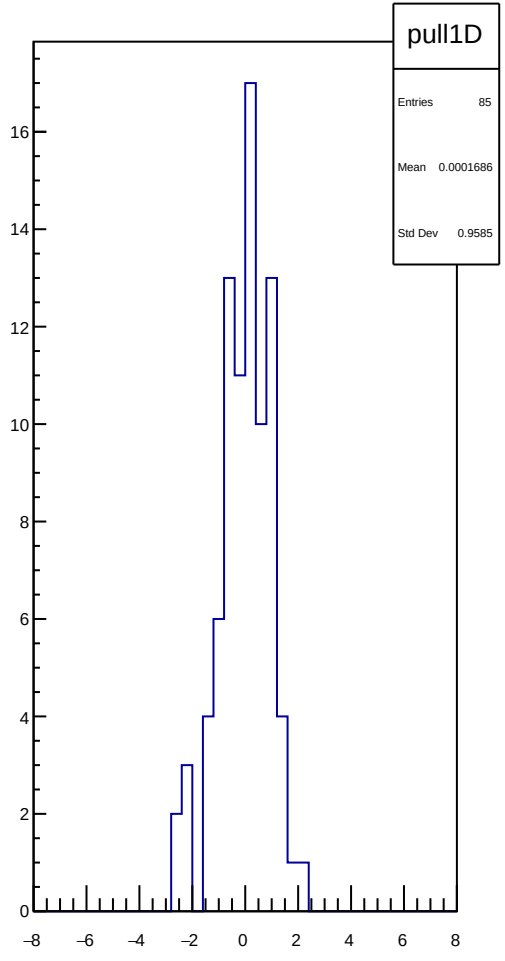

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

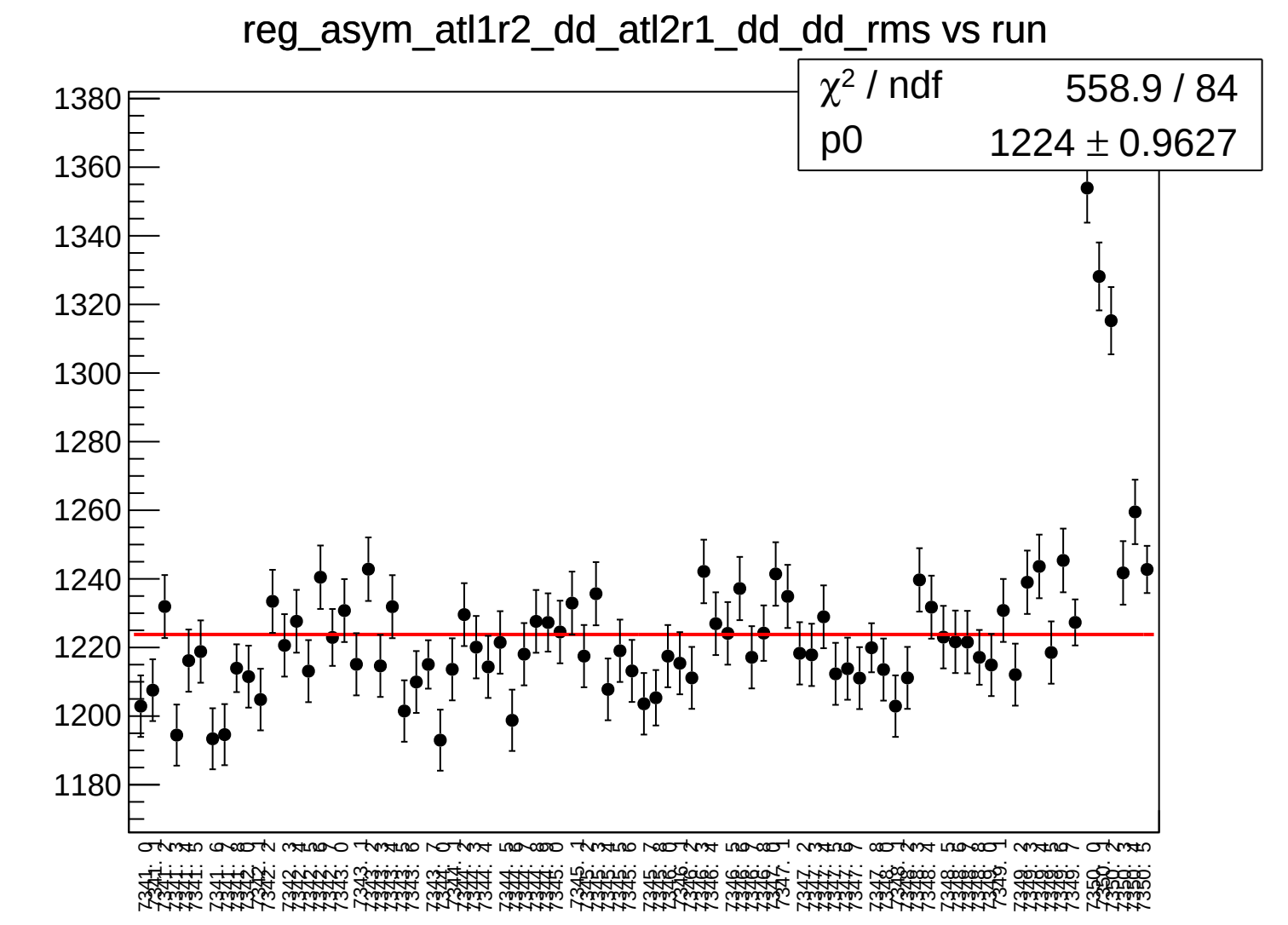

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.15 / 84
p0 −2.215e−14 ± 9.434e−14
pull
Entries 85
Mean 23.45
Std Dev 0

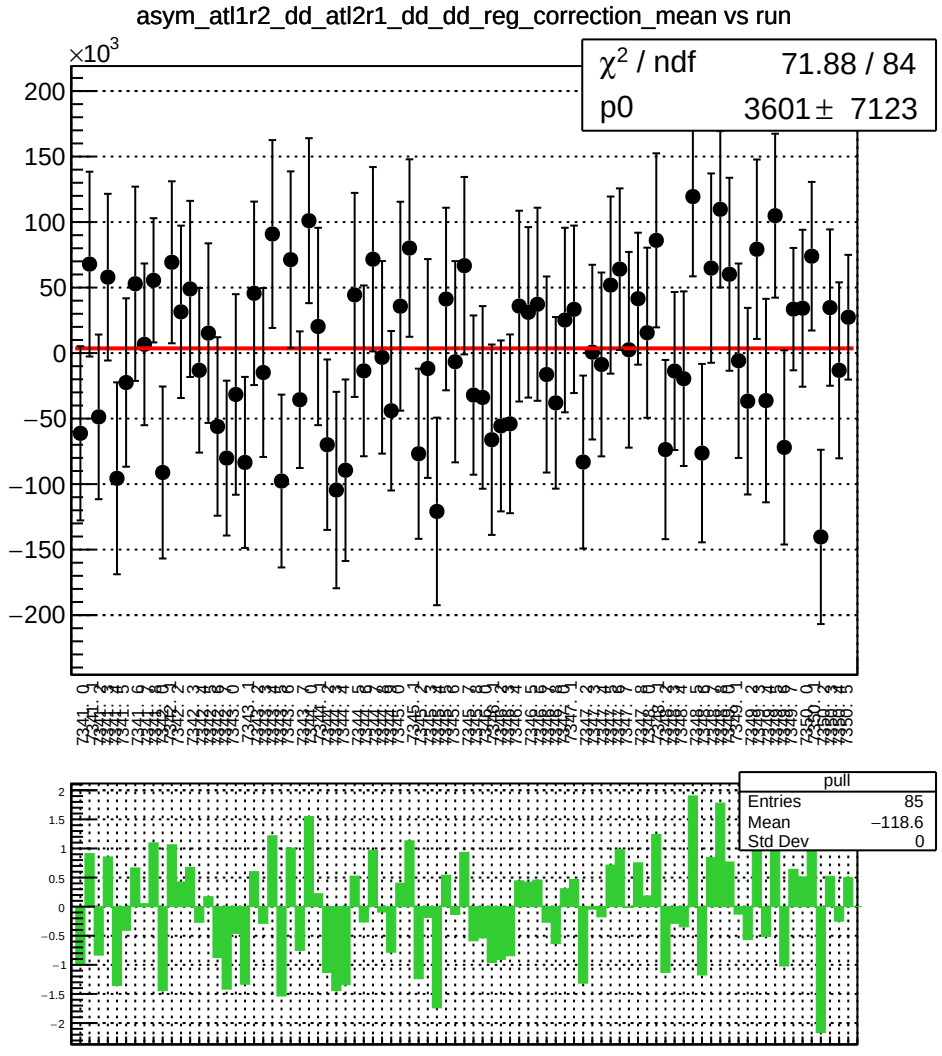

pull1D
Entries 85
Mean −0.02156
Std Dev 0.8339

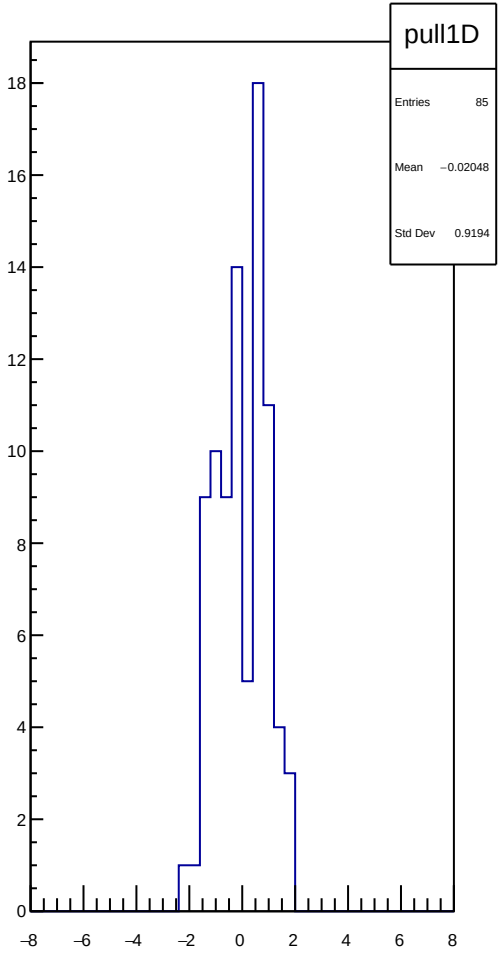

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.058e+05 / 84
p0 7.339e−11 ± 6.671e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

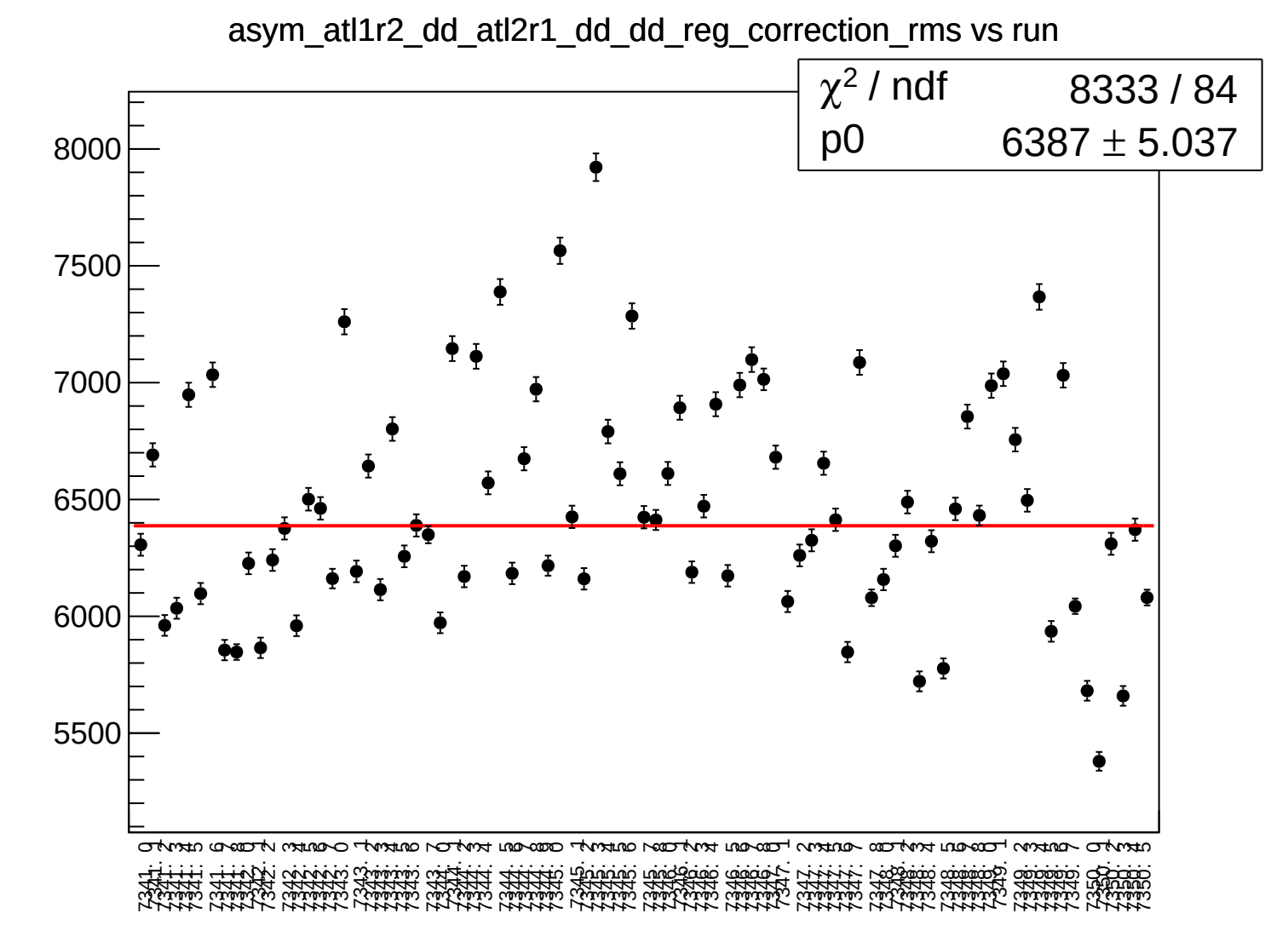

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.09 / 84
p0 −294 ± 1362
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.235e+04
Std Dev 0
2
1
0
−1
−2

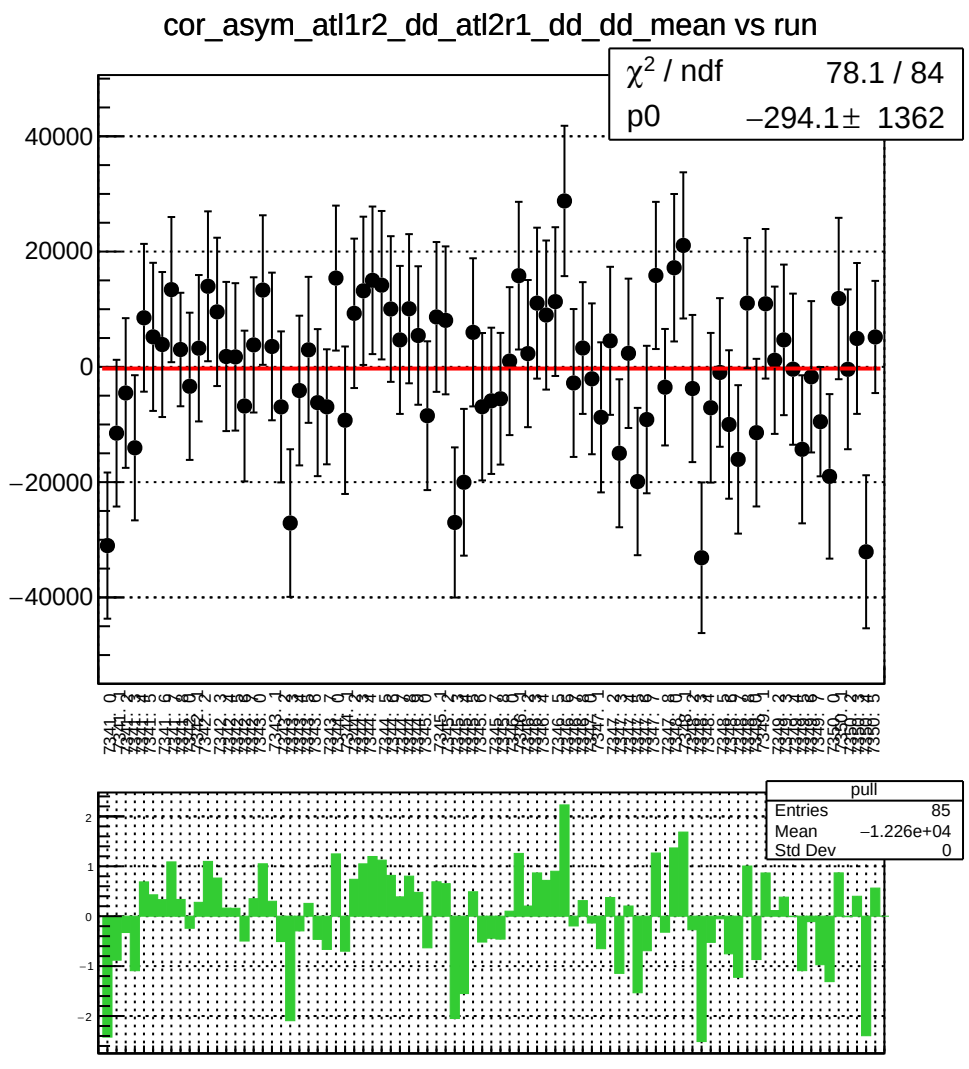

pull1D
Entries 85
Mean 0.0001686
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

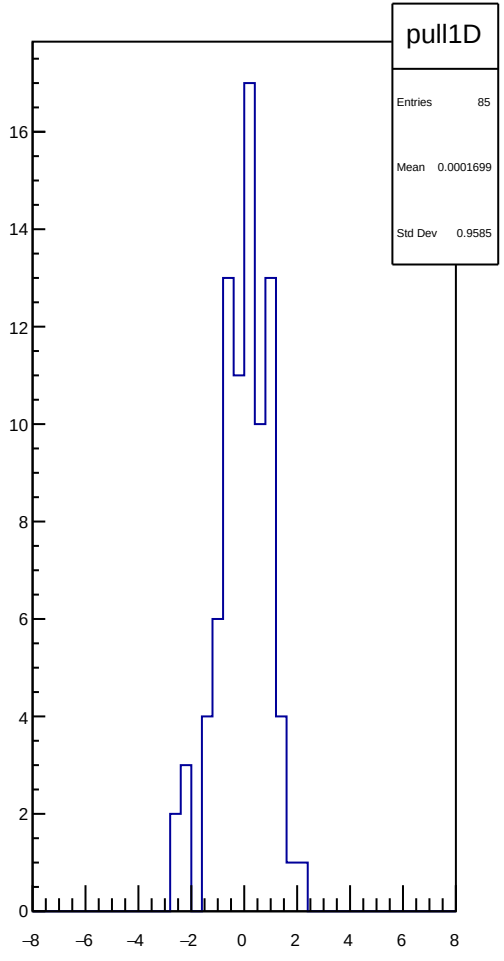

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 558.9 / 84
p0 1224 ± 0.9627
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

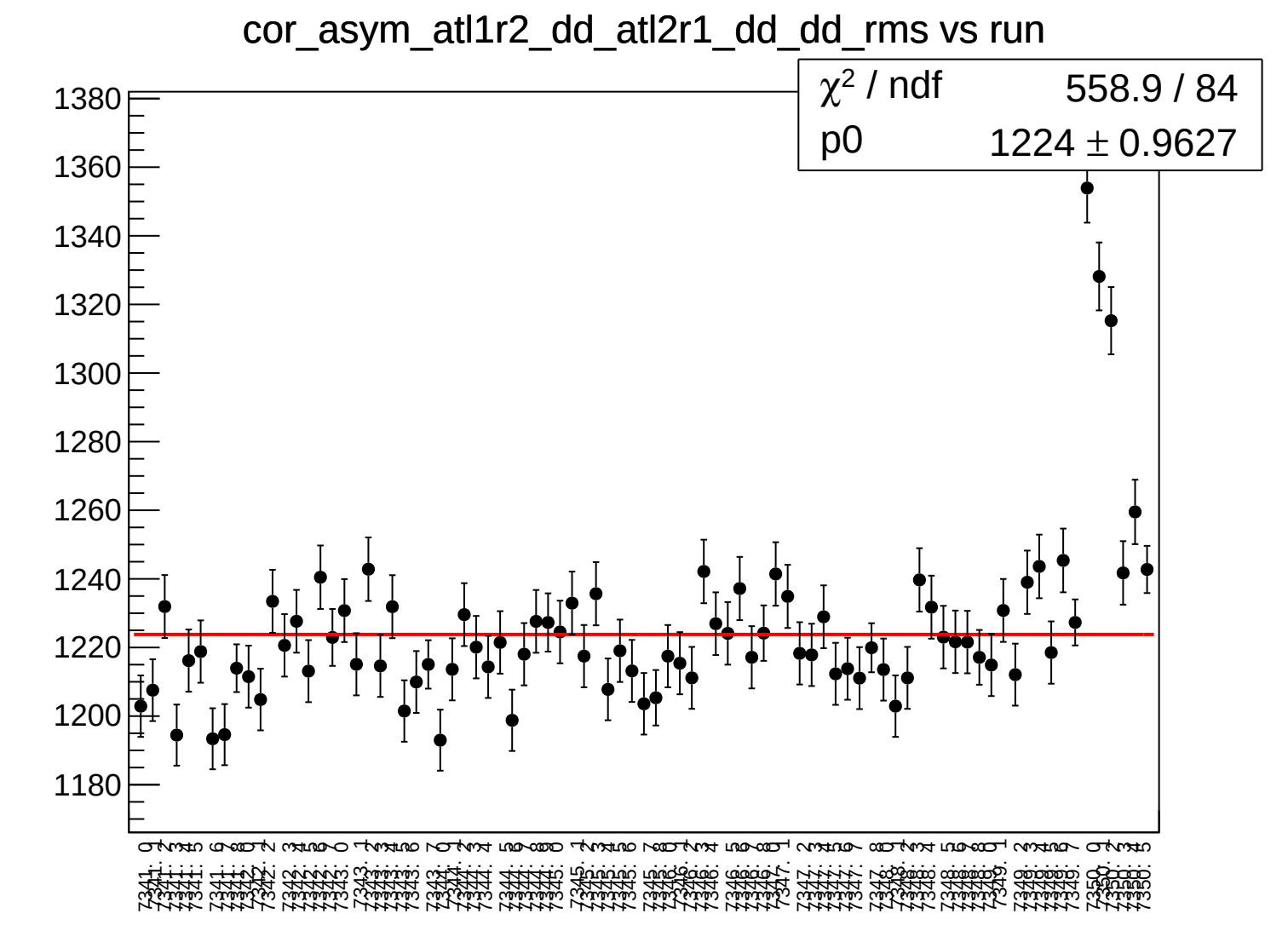

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 71.88 / 84
p0 3601 ± 7123
pull
Entries 85
Mean −118.6
Std Dev 0

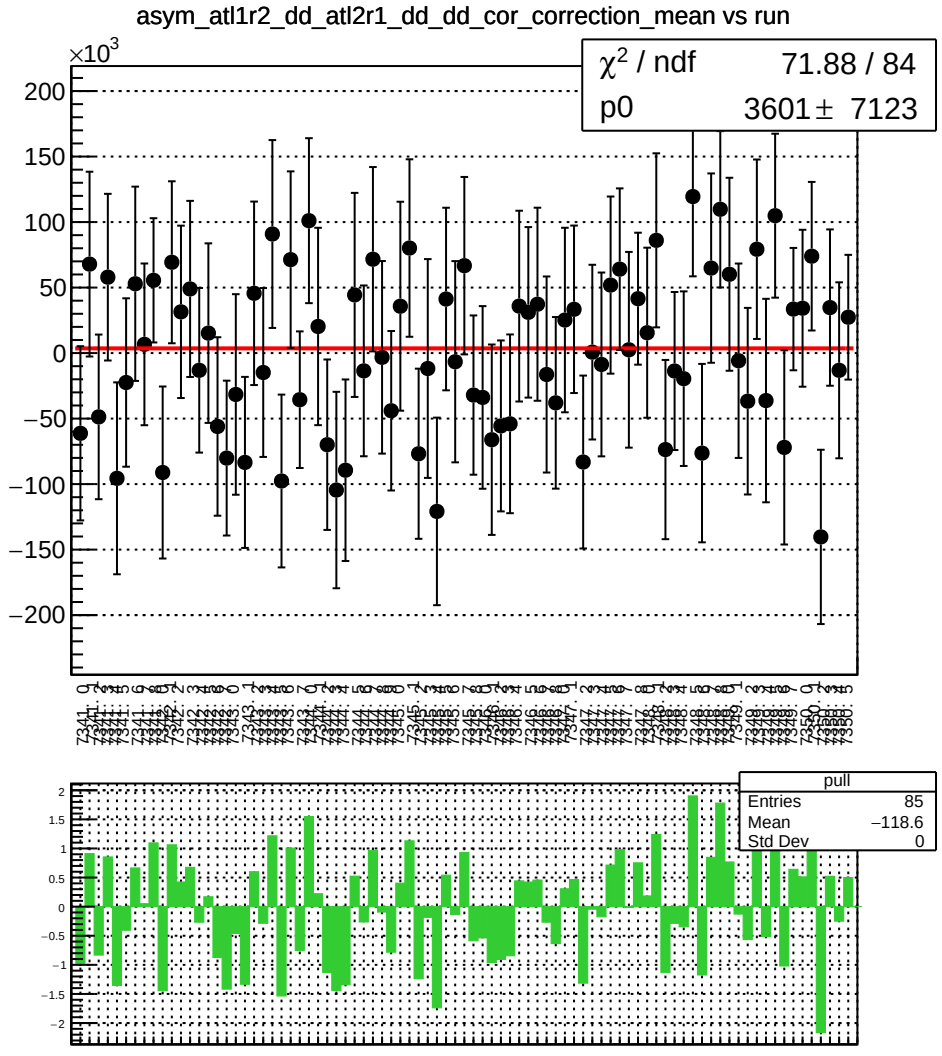

pull1D
Entries 85
Mean −0.02048
Std Dev 0.9194

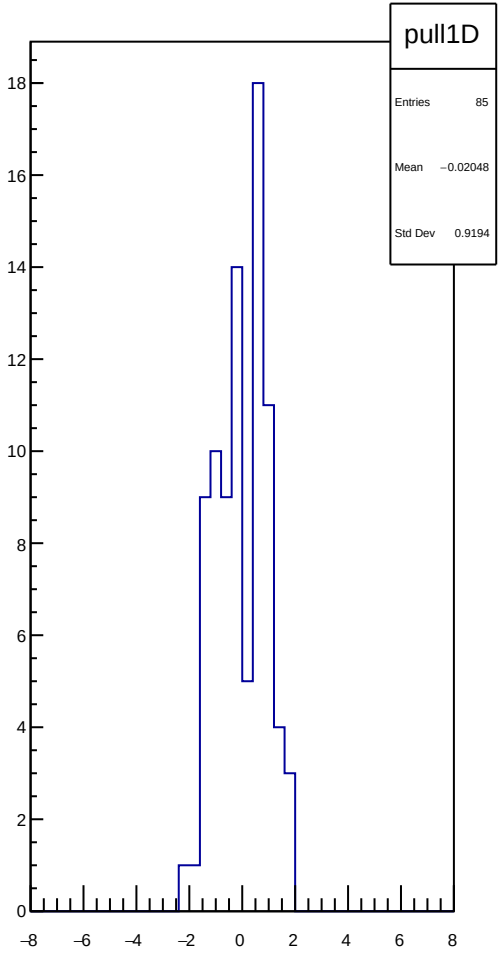

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 8333 / 84
p0 6387 ± 5.037
8000
7500
7000
6500
6000
5500

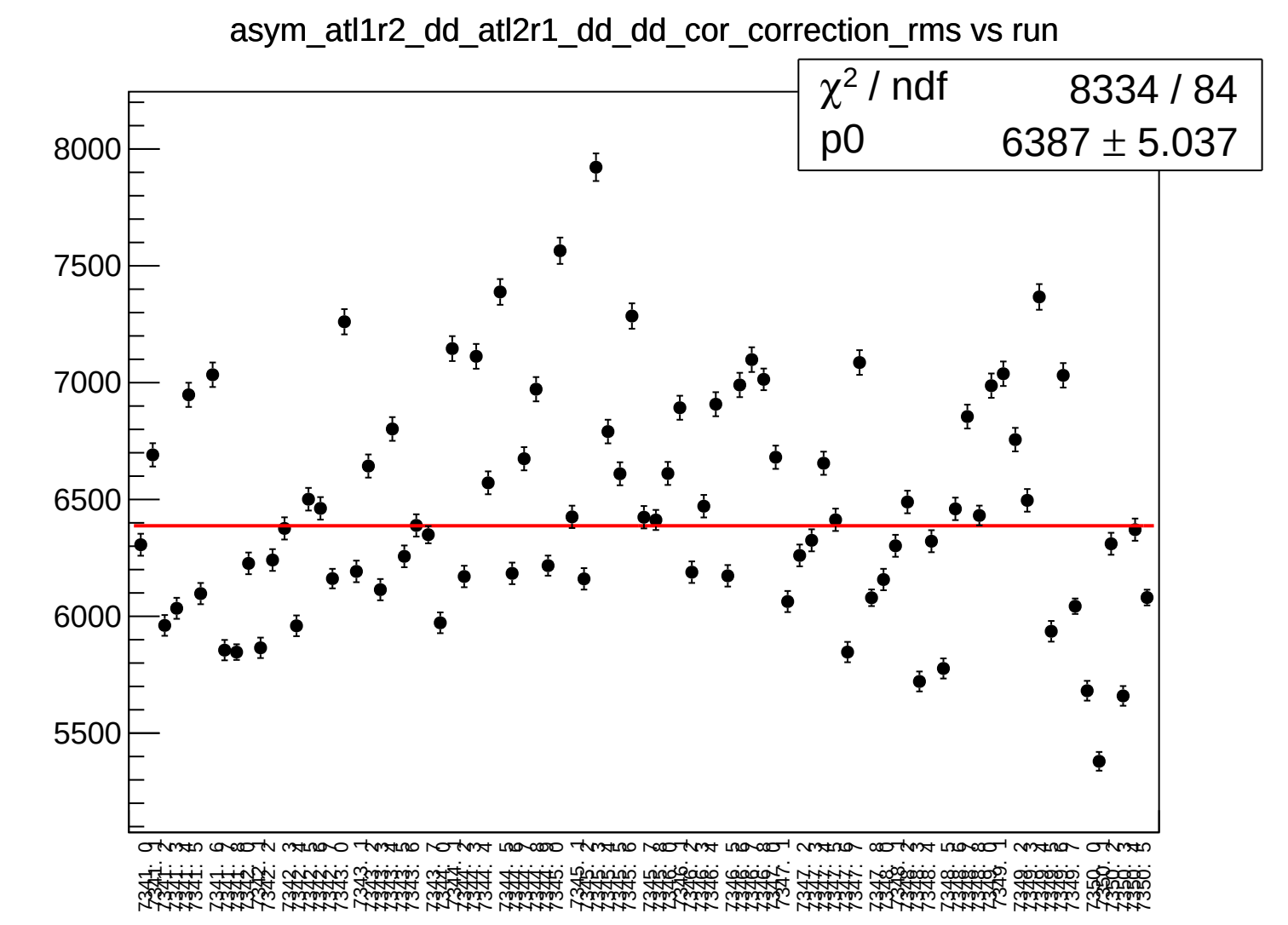

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.1 / 84
p0 −294.1± 1362
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.226e+04
Std Dev 0
2
1
0
−1
−2

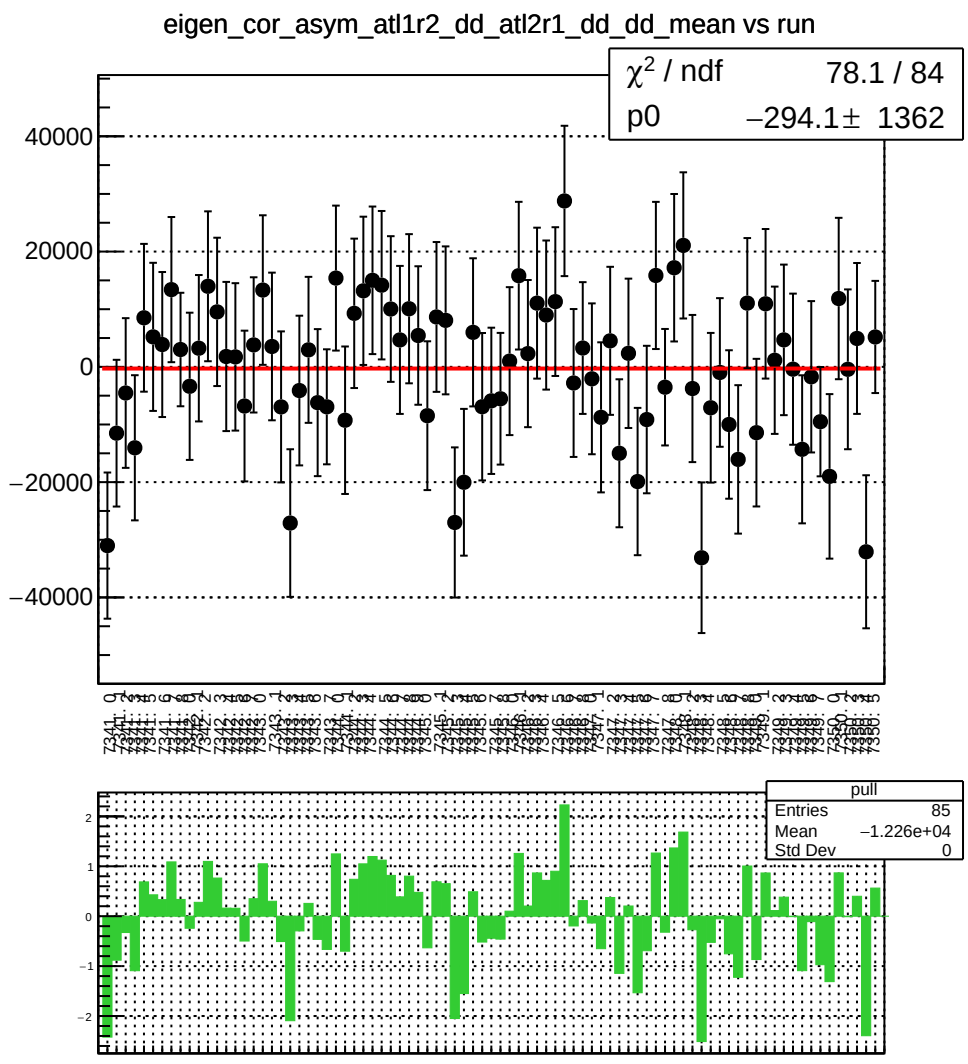

pull1D
Entries 85
Mean 0.0001699
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

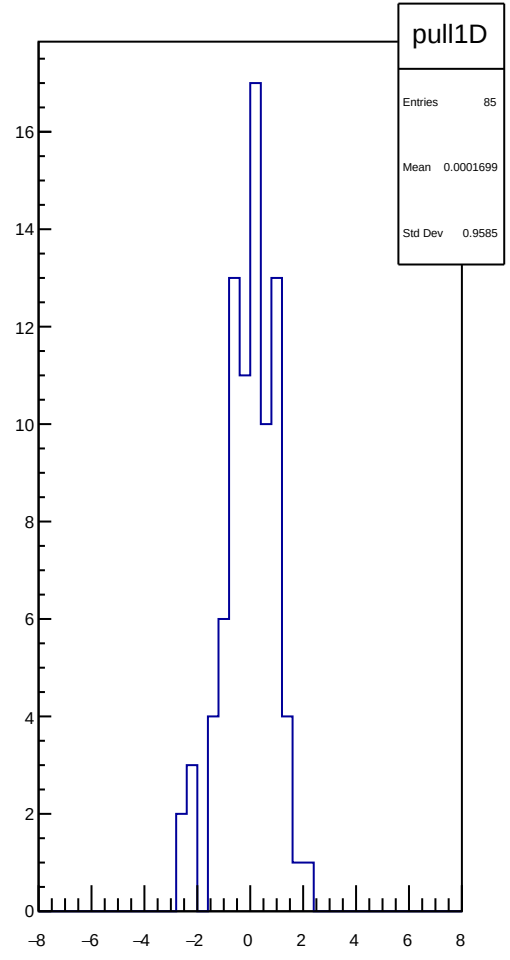

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 558.9 / 84
p0 1224 ± 0.9627
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

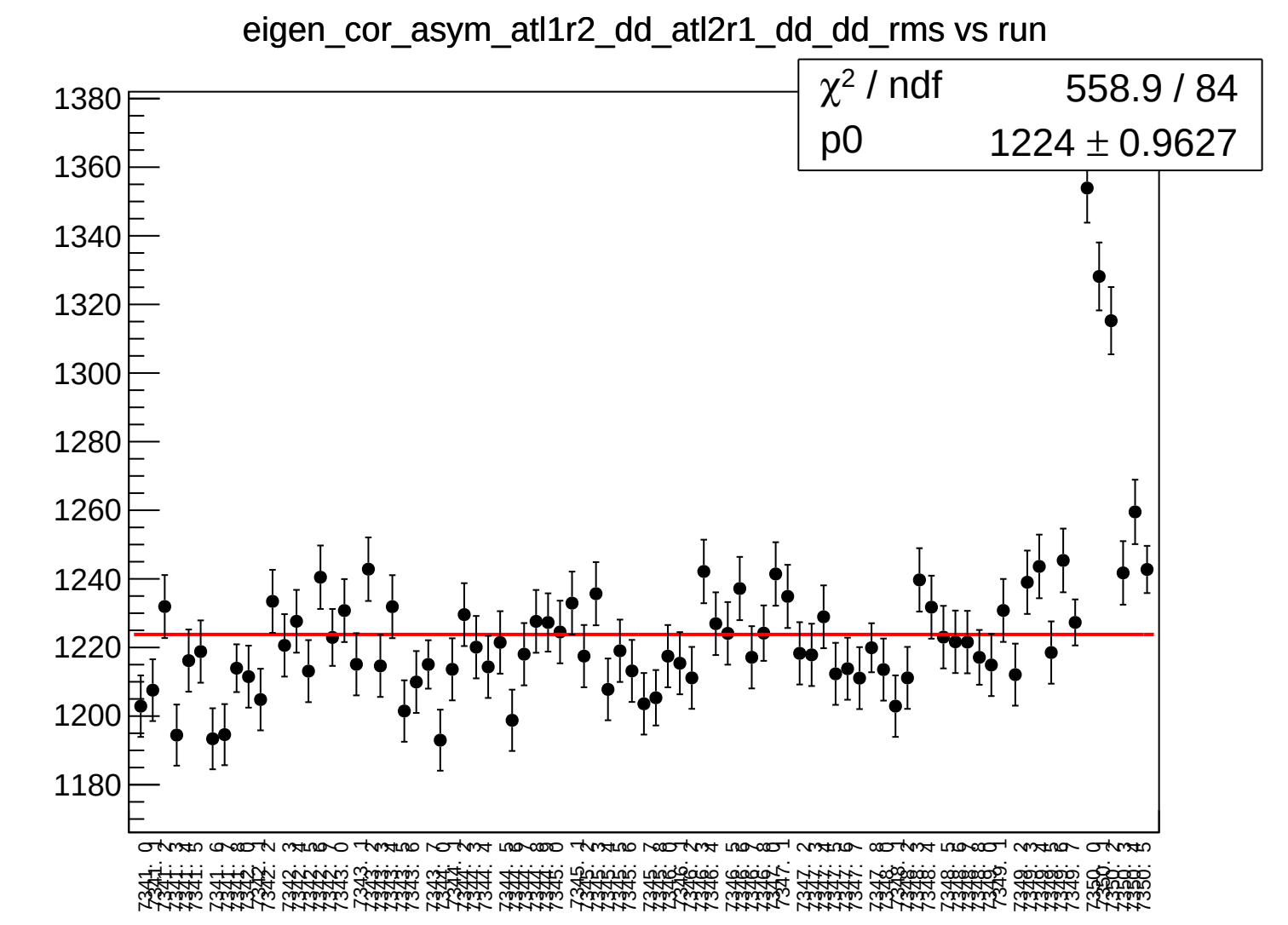

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 71.88 / 84
p0 3601 ± 7123
pull
Entries 85
Mean −118.6
Std Dev 0

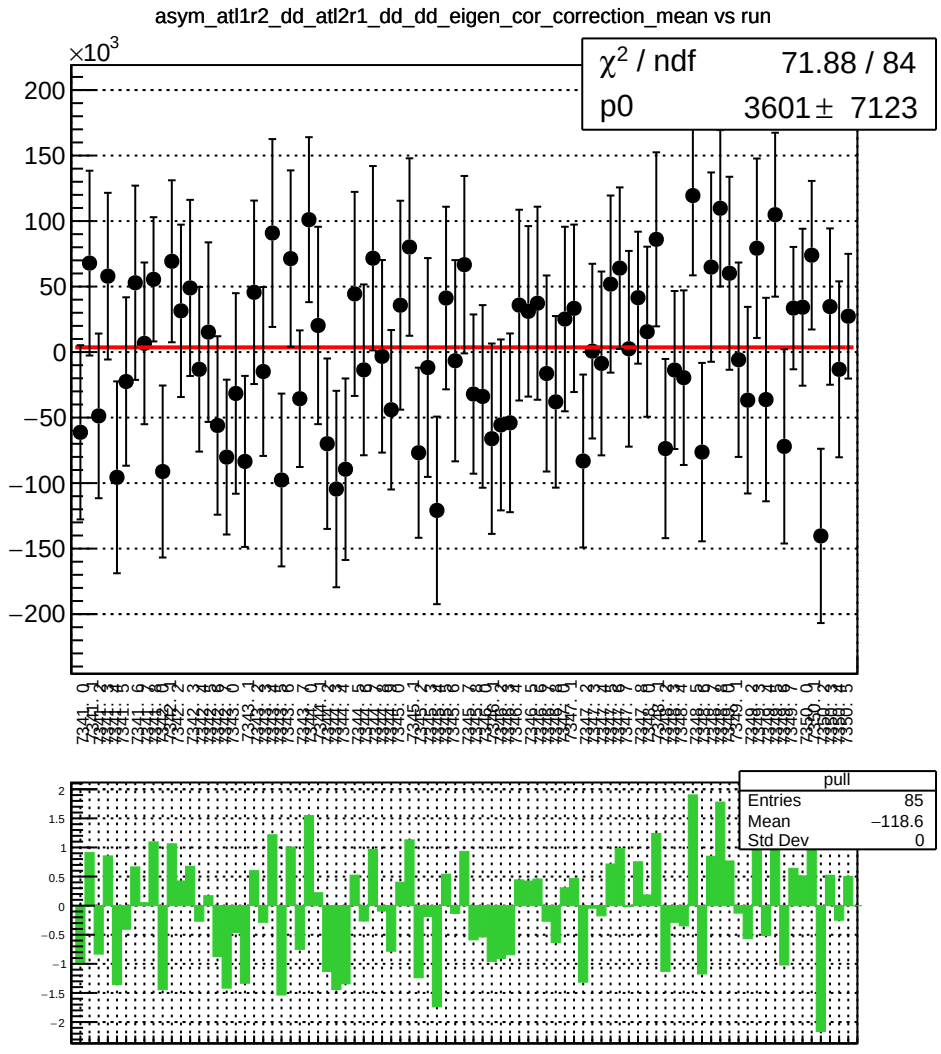

pull1D
Entries 85
Mean −0.02048
Std Dev 0.9194

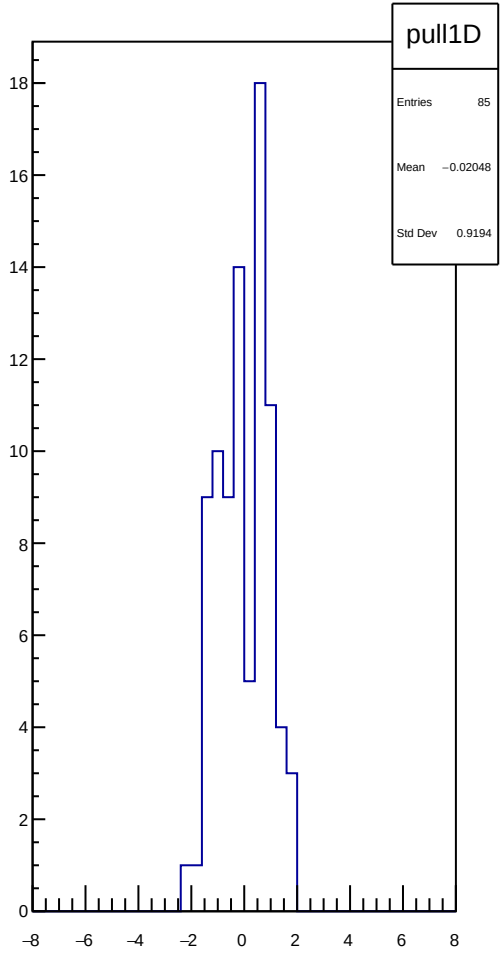

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 8334 / 84
p0 6387 ± 5.037
8000
7500
7000
6500
6000
5500

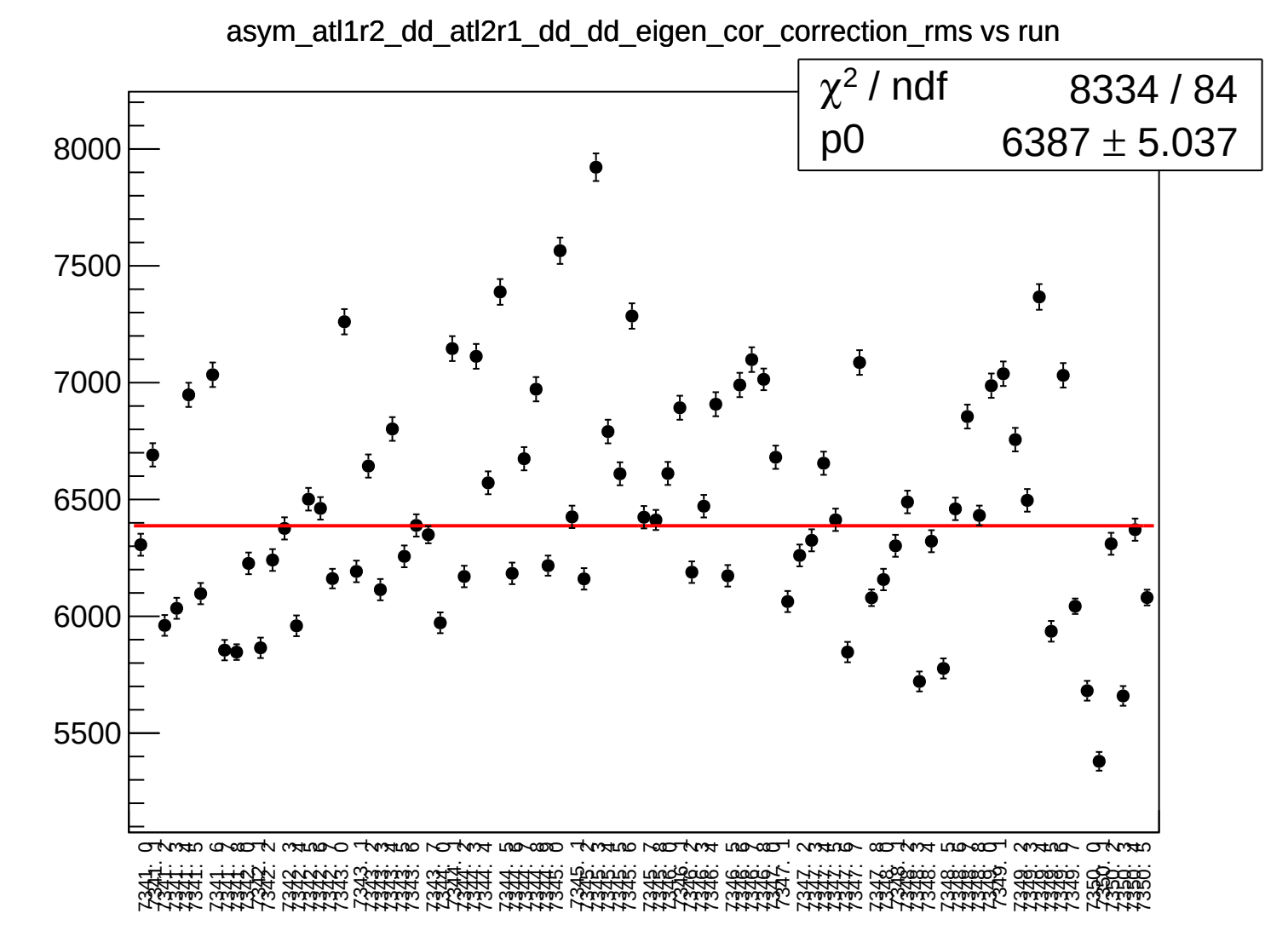

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.1 / 84
p0 −294.1± 1362
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1.226e+04
Std Dev 0
2
1
0
−1
−2

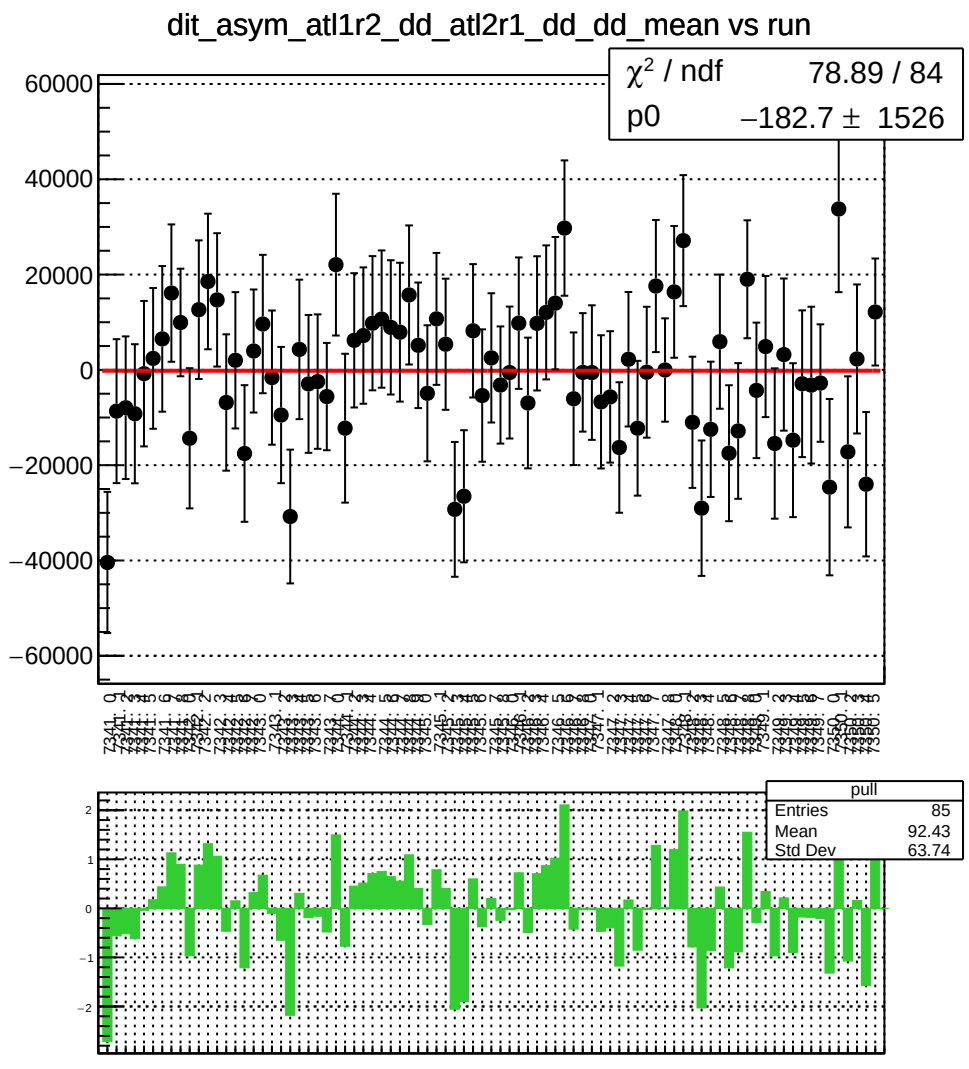

pull1D
Entries 85
Mean 0.0001699
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

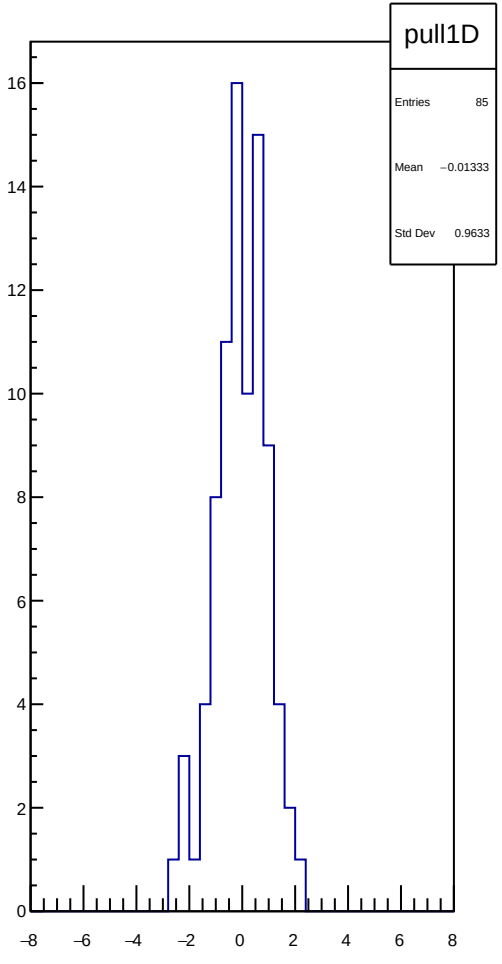

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 558.9 / 84
p0 1224 ± 0.9627
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

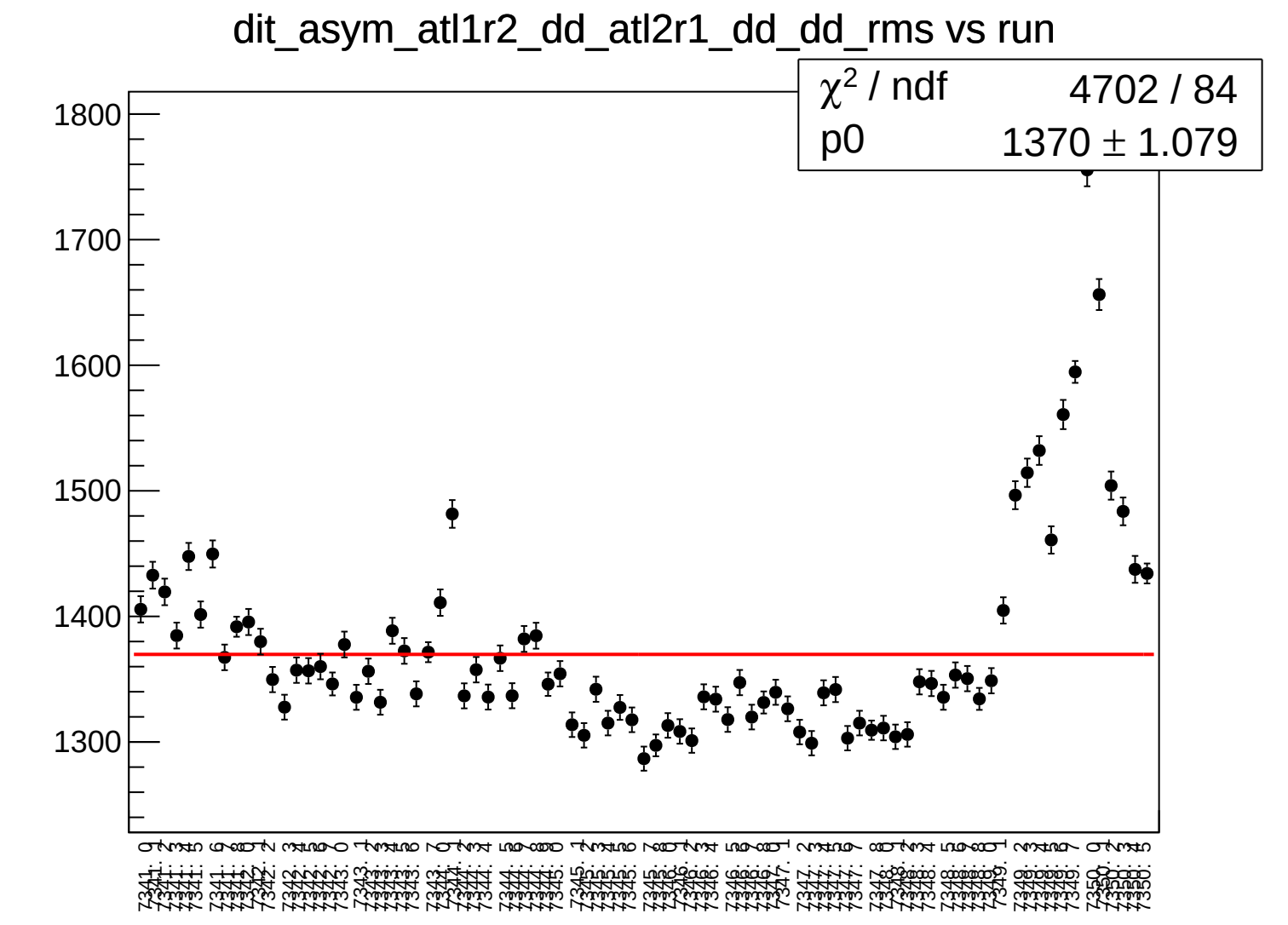

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 71.88 / 84
p0 3601 ± 7123
pull
Entries 85
Mean −118.6
Std Dev 0

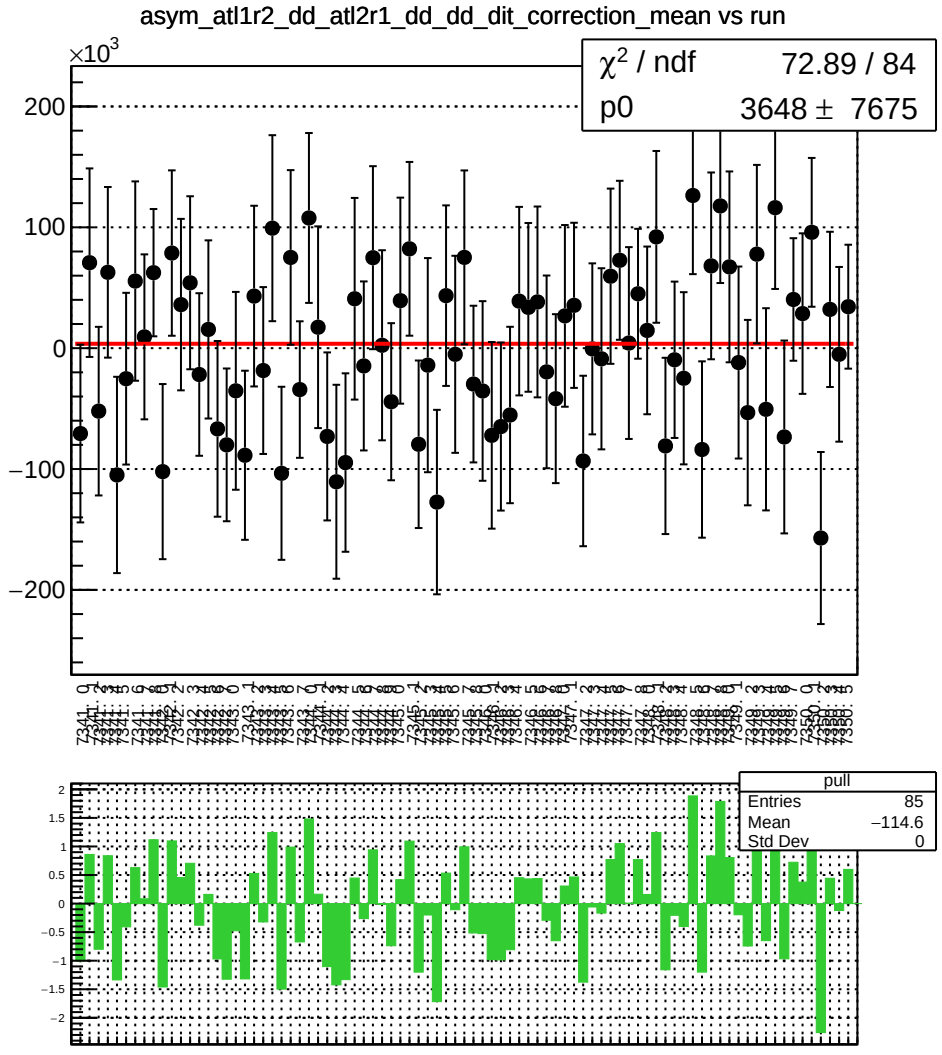

pull1D
Entries 85
Mean −0.02048
Std Dev 0.9194

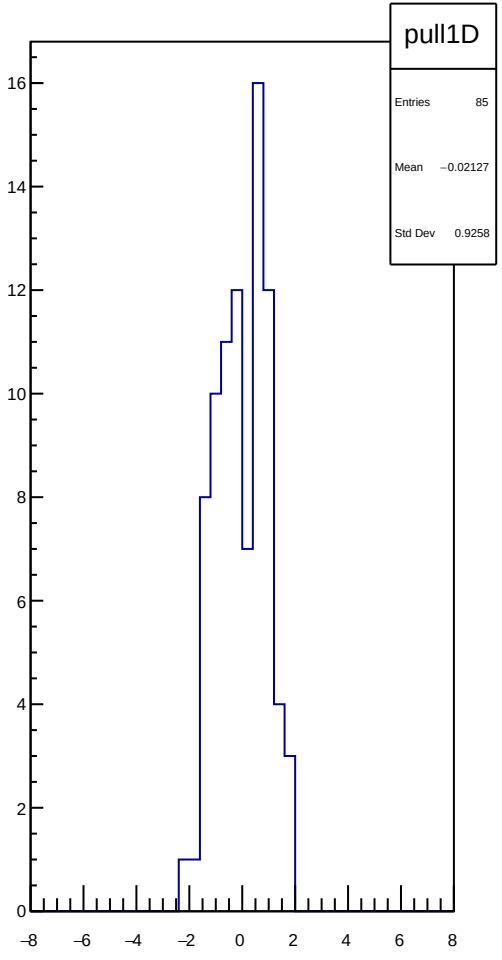

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8334 / 84
p0 6387 ± 5.037
8000
7500
7000
6500
6000
5500

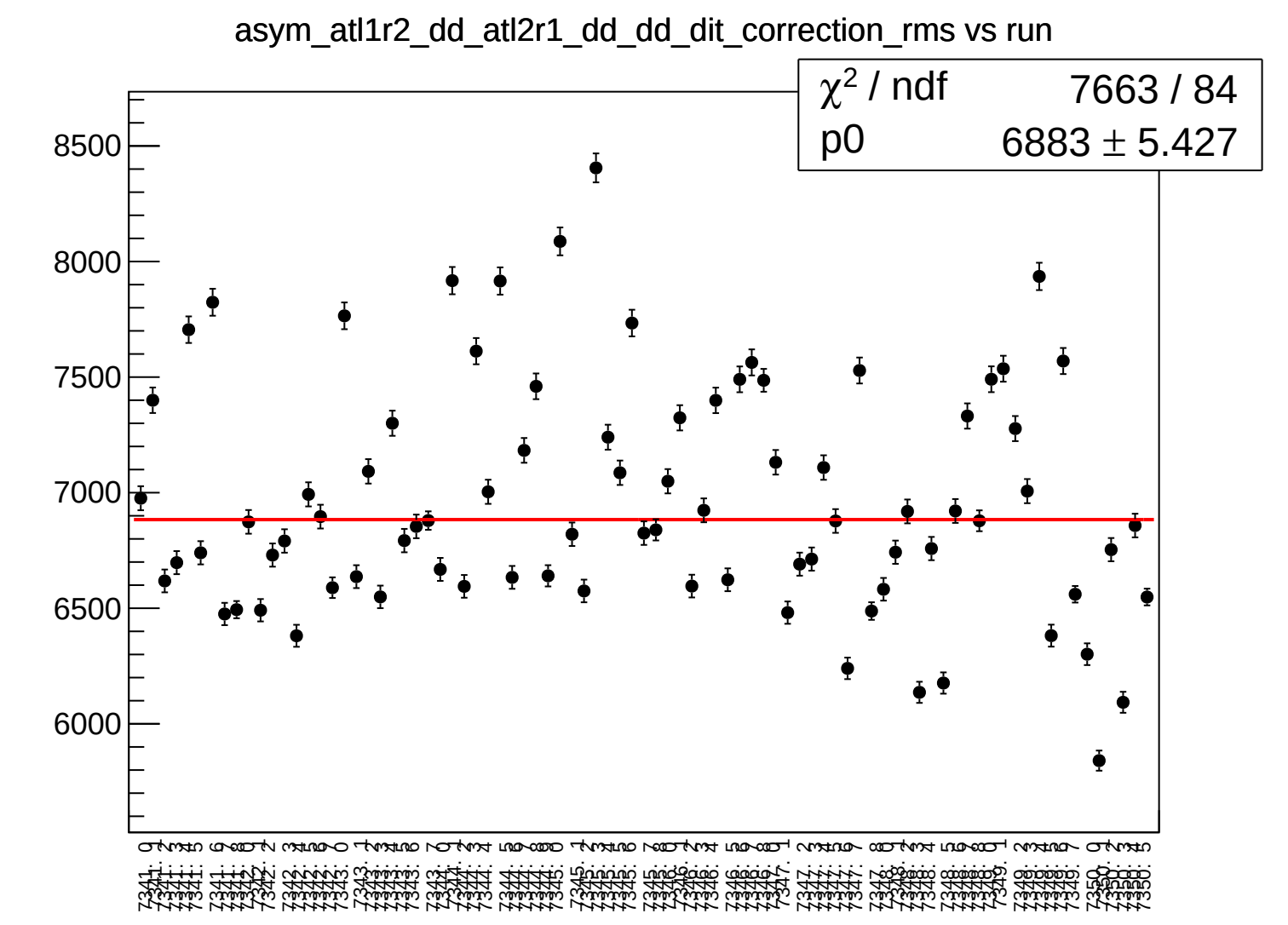

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.89 / 84
p0 −182.7 ± 1526
pull
Entries 85
Mean 92.43
Std Dev 63.74

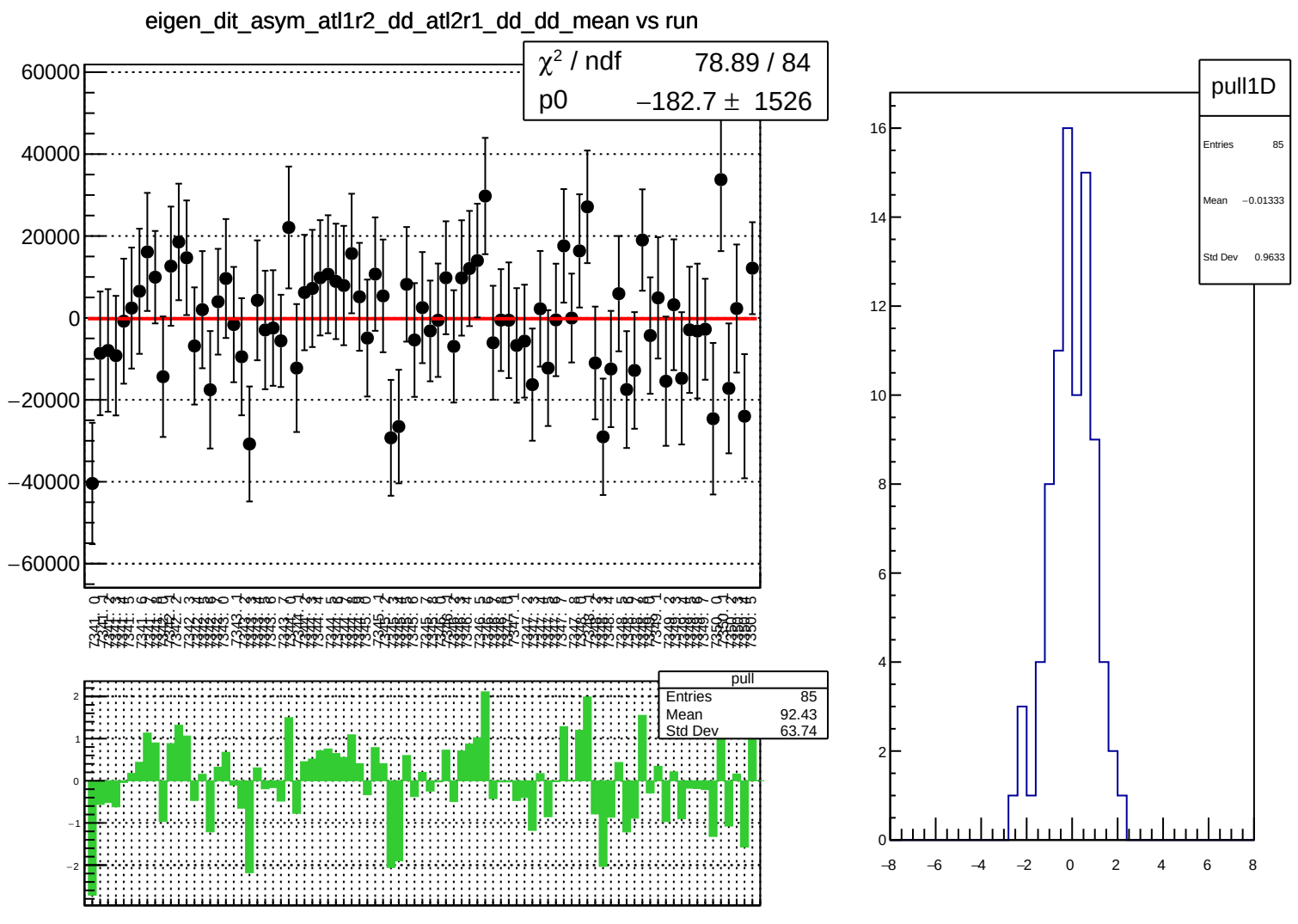

pull1D
Entries 85
Mean −0.01333
Std Dev 0.9633

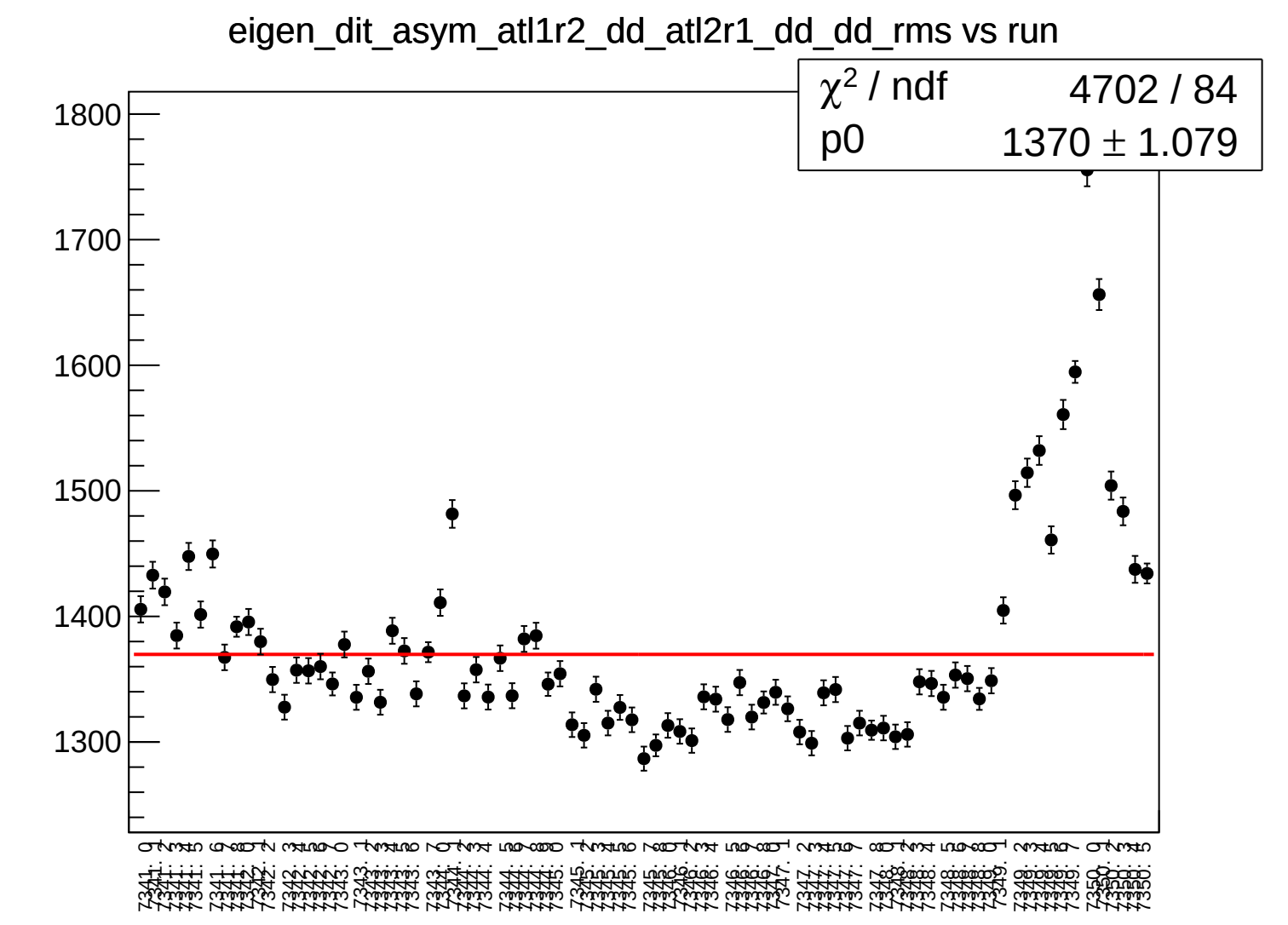

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4702 / 84
p0 1370 ± 1.079
1800
1700
1600
1500
1400
1300

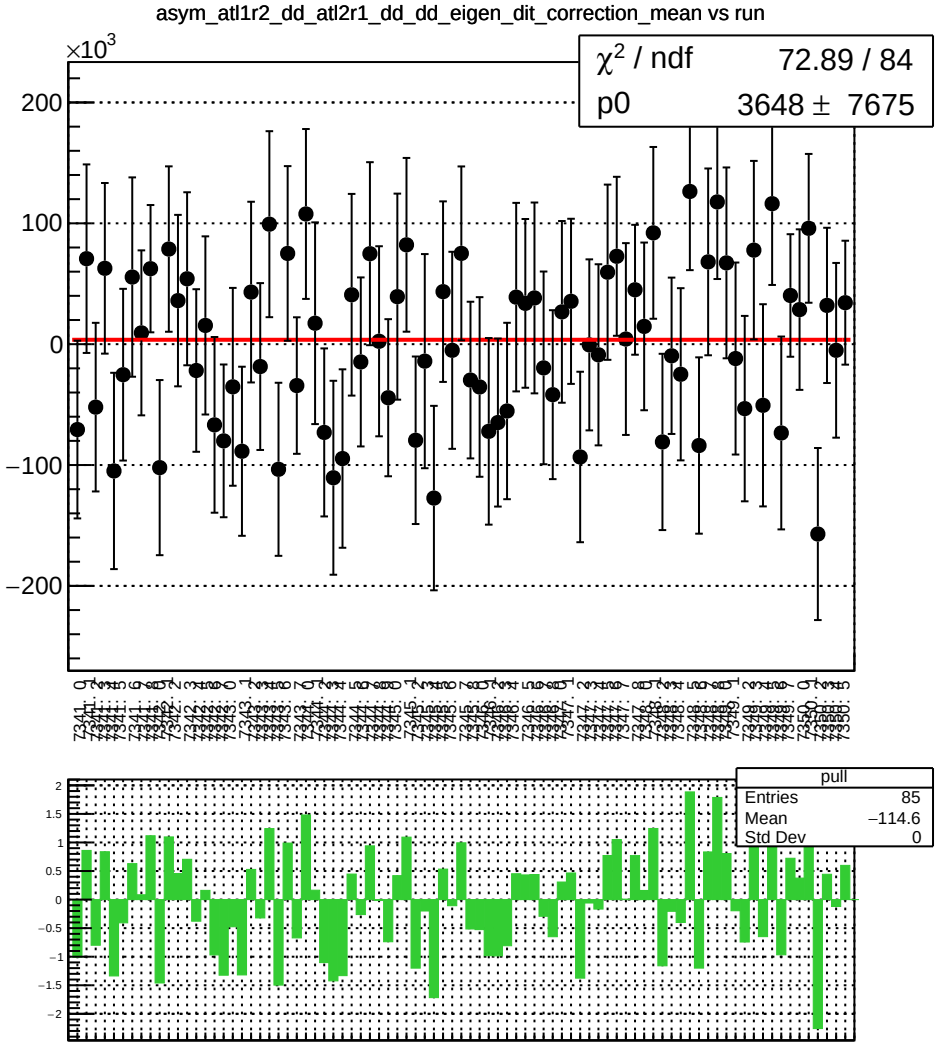

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 72.89 / 84
p0 3648 ± 7675
200
100
0
−100
−200
pull
Entries 85
Mean −114.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

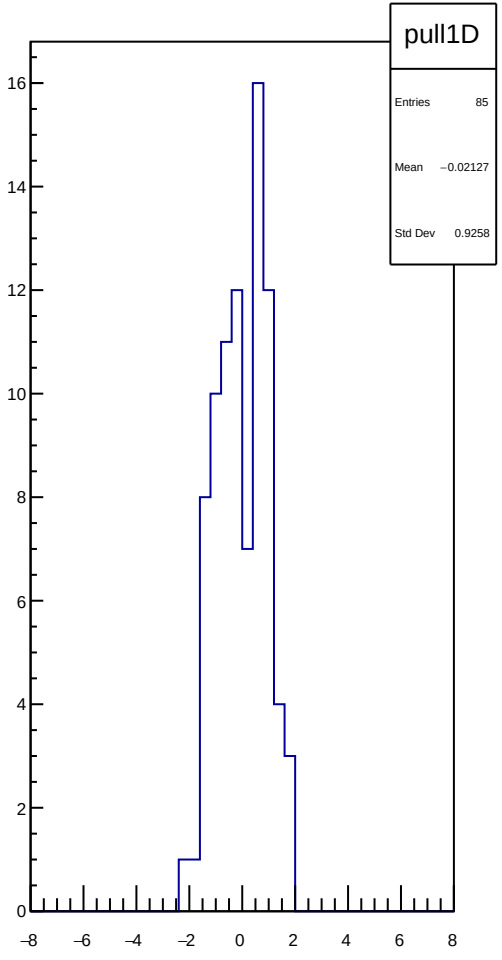

pull1D
Entries 85
Mean −0.02127
Std Dev 0.9258
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

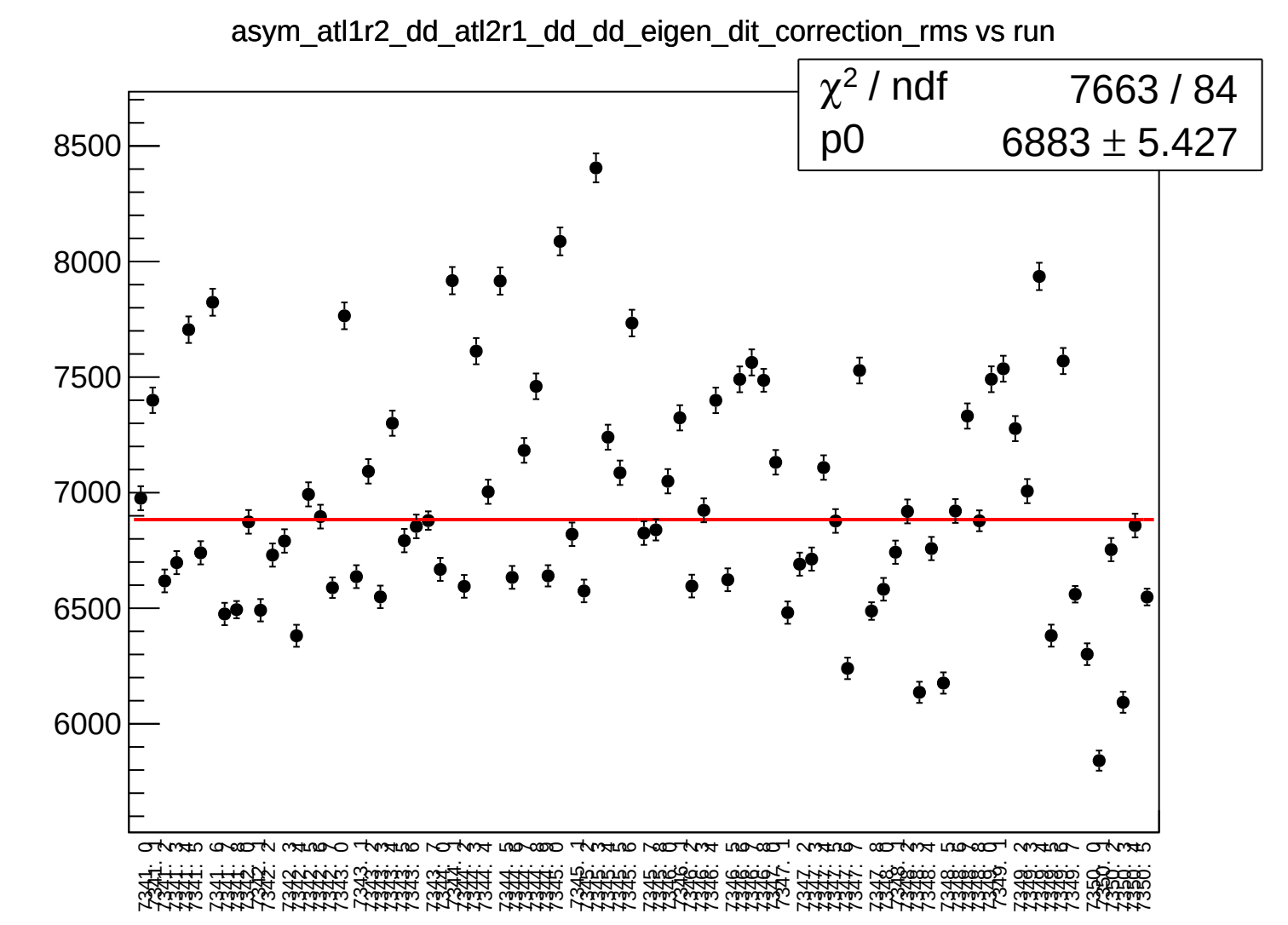

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 7663 / 84
p0 6883 ± 5.427
8500
8000
7500
7000
6500
6000

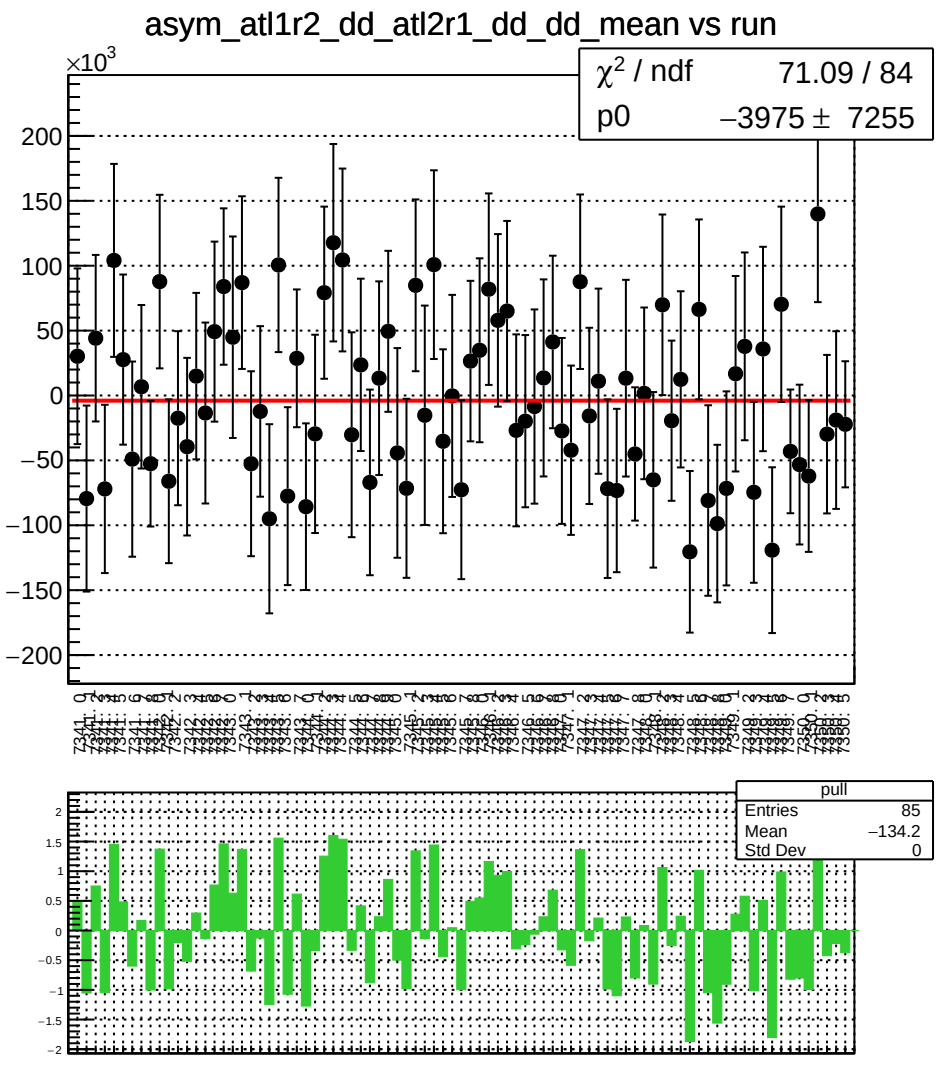

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.89 / 84
p0 −182.7 ± 1526
pull
Entries 85
Mean 92.43
Std Dev 63.74
pull1D
Entries 85
Mean −0.01333
Std Dev 0.9633

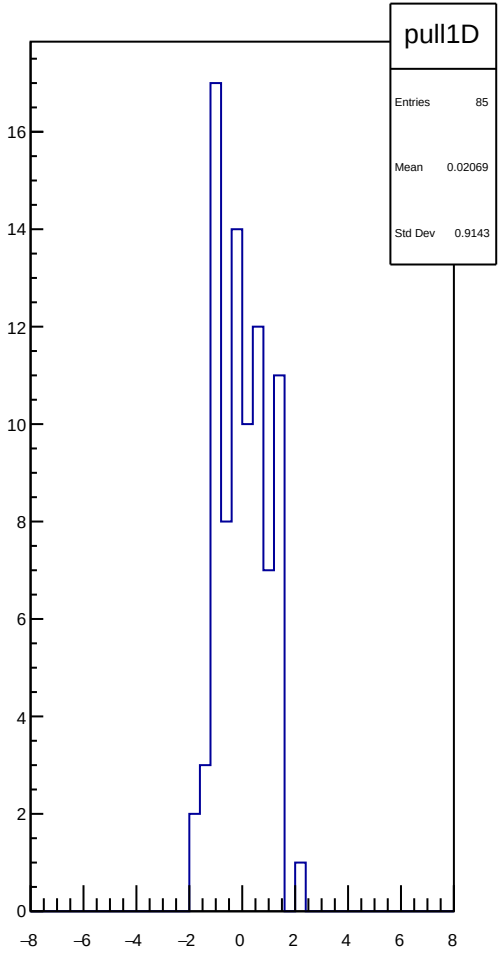

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4702 / 84
p0 1370 ± 1.079
1800
1700
1600
1500
1400
1300

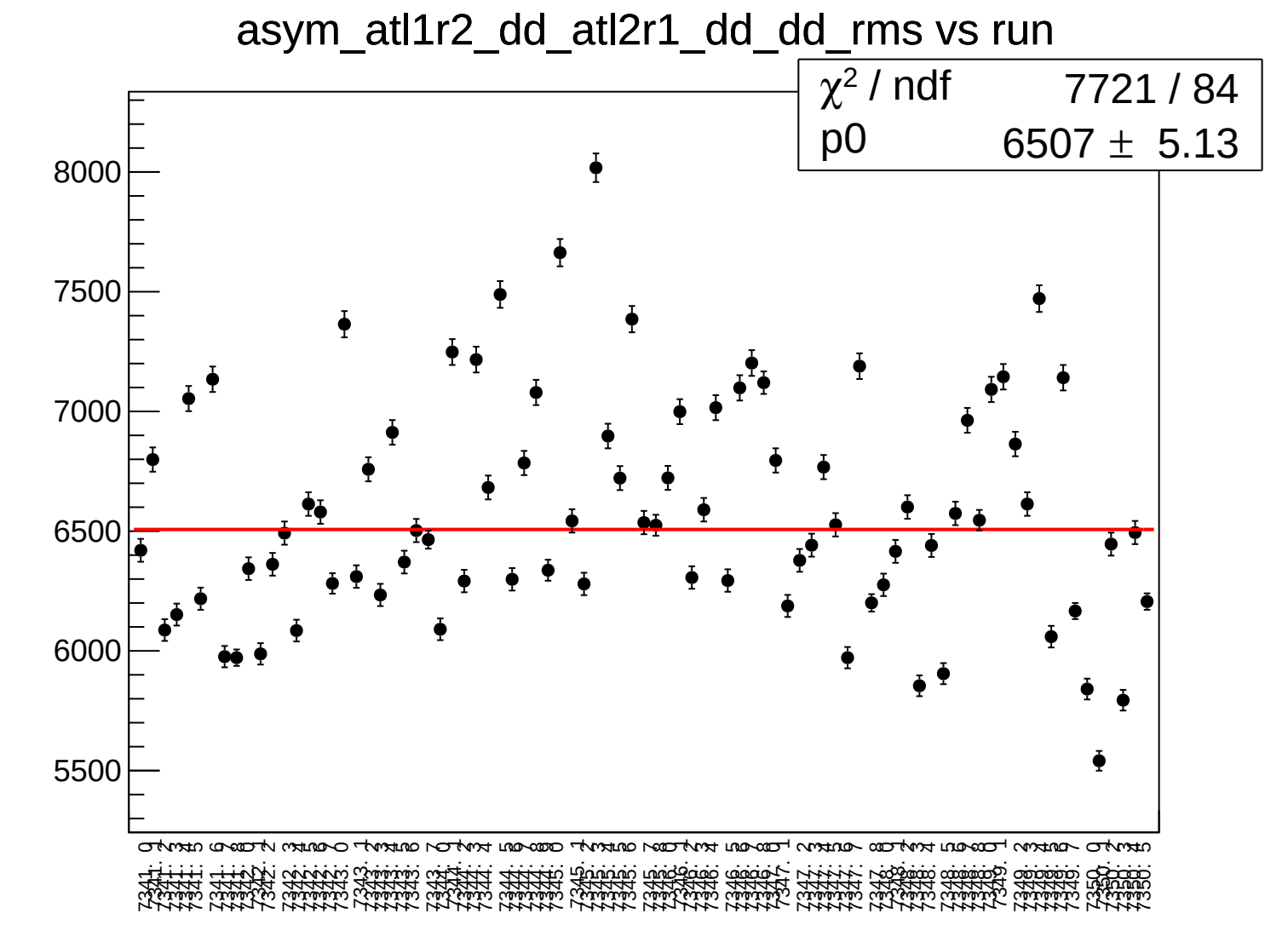

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.89 / 84
p0 3648 ± 7675
200
100
0
−100
−200
pull
Entries 85
Mean −114.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

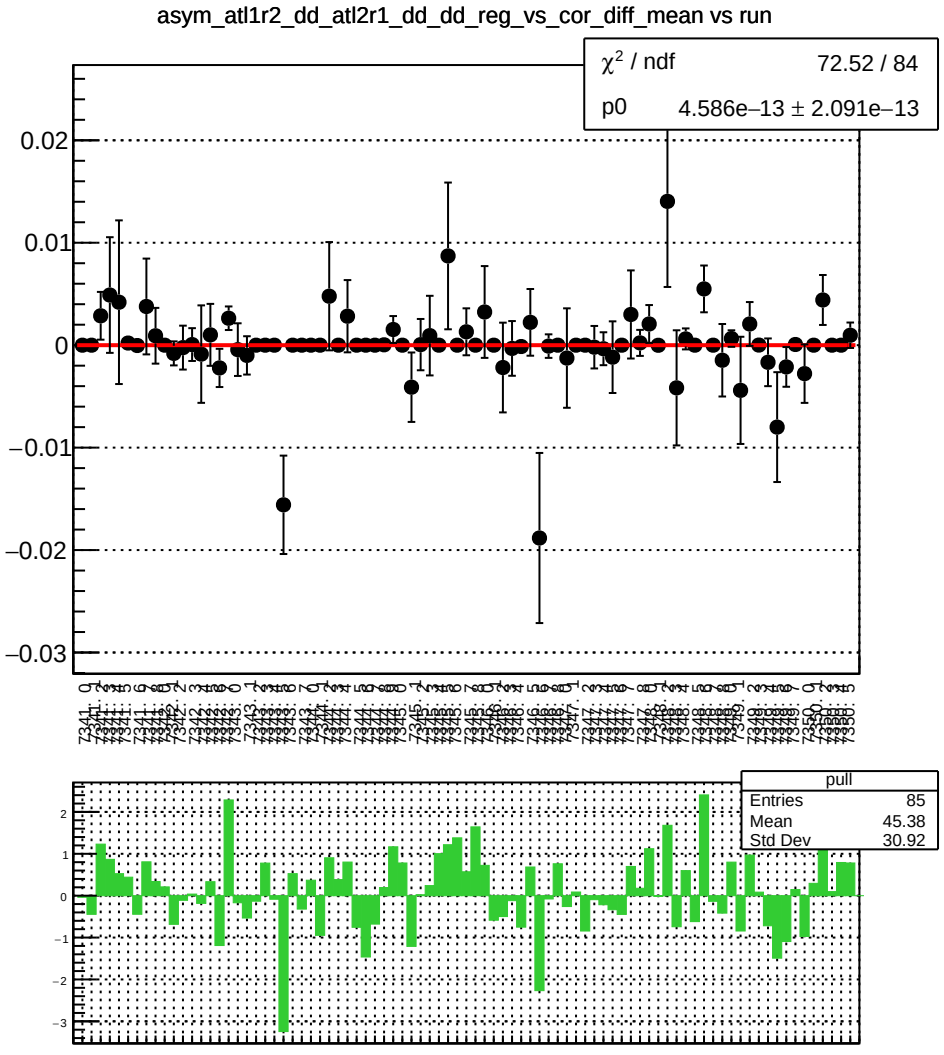

pull1D
Entries 85
Mean −0.02127
Std Dev 0.9258
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

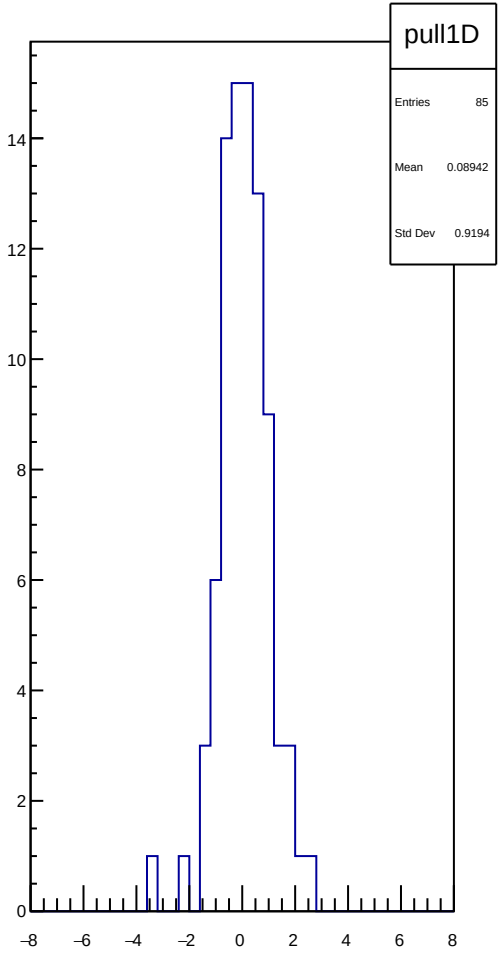

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7663 / 84
p0 6883 ± 5.427
8500
8000
7500
7000
6500
6000

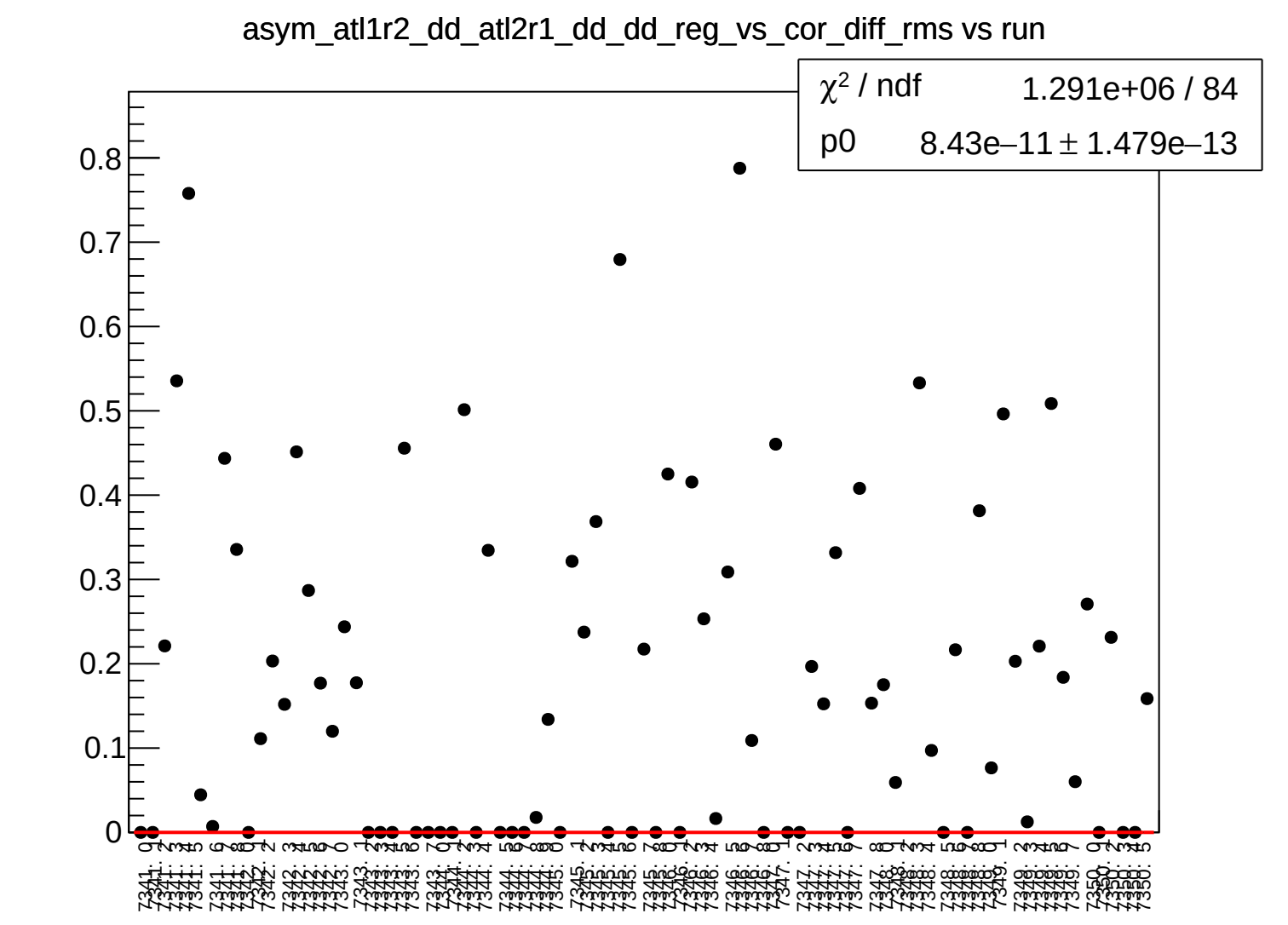

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 71.09 / 84
p0 −3975 ± 7255
pull
Entries 85
Mean −134.2
Std Dev 0

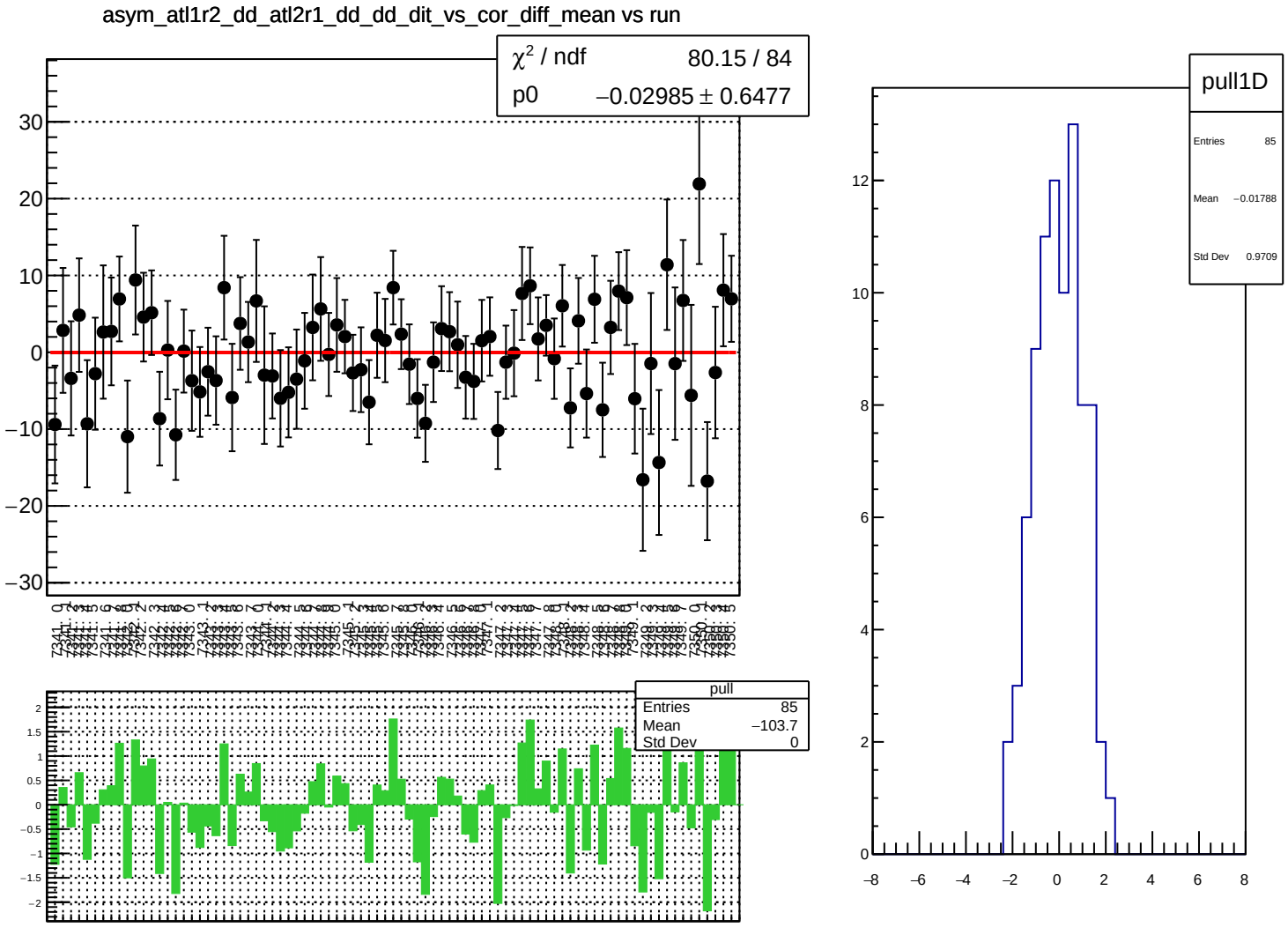

pull1D
Entries 85
Mean 0.02069
Std Dev 0.9143

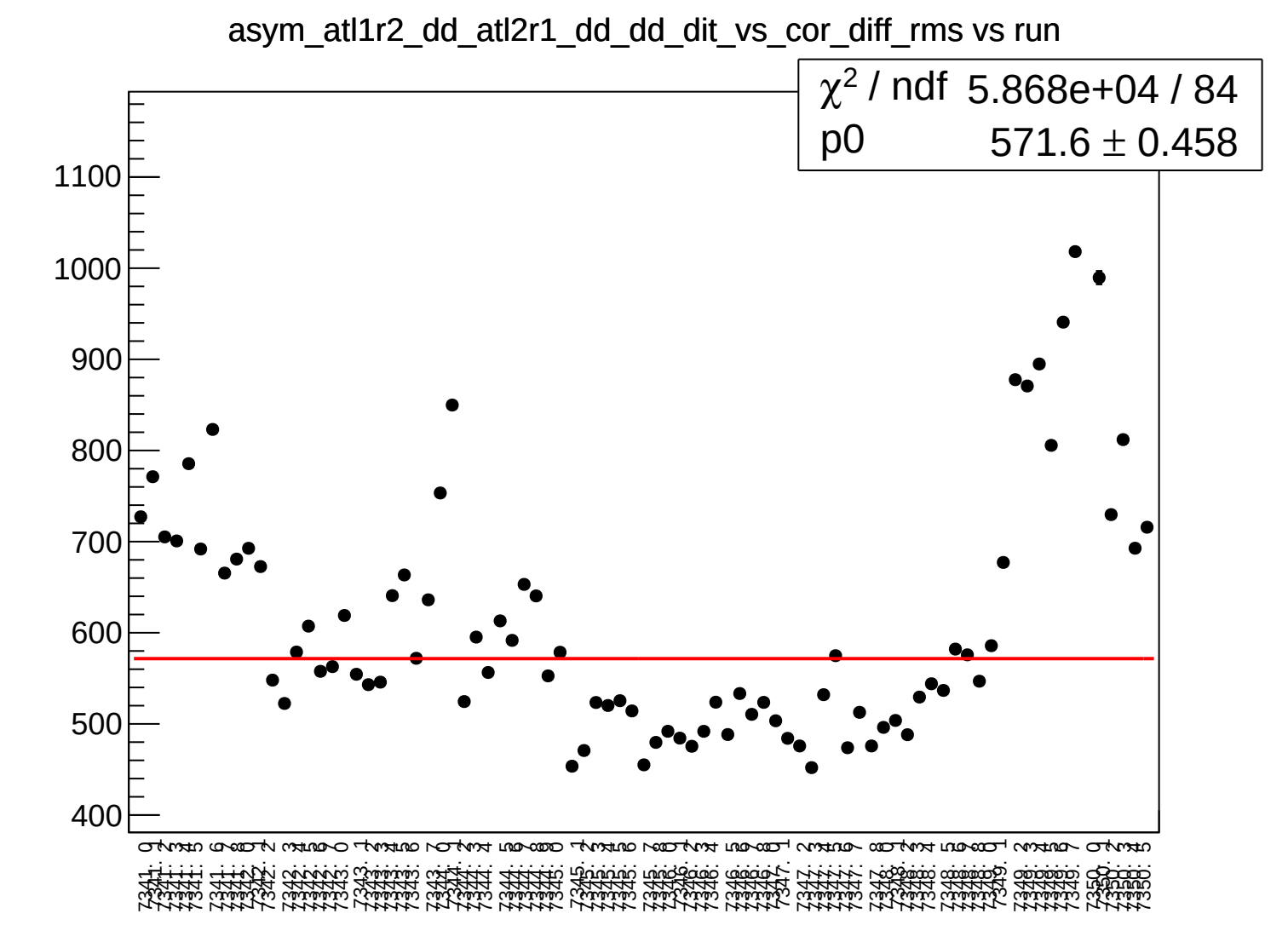

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 7721 / 84
p0 6507 ± 5.13
8000
7500
7000
6500
6000
5500

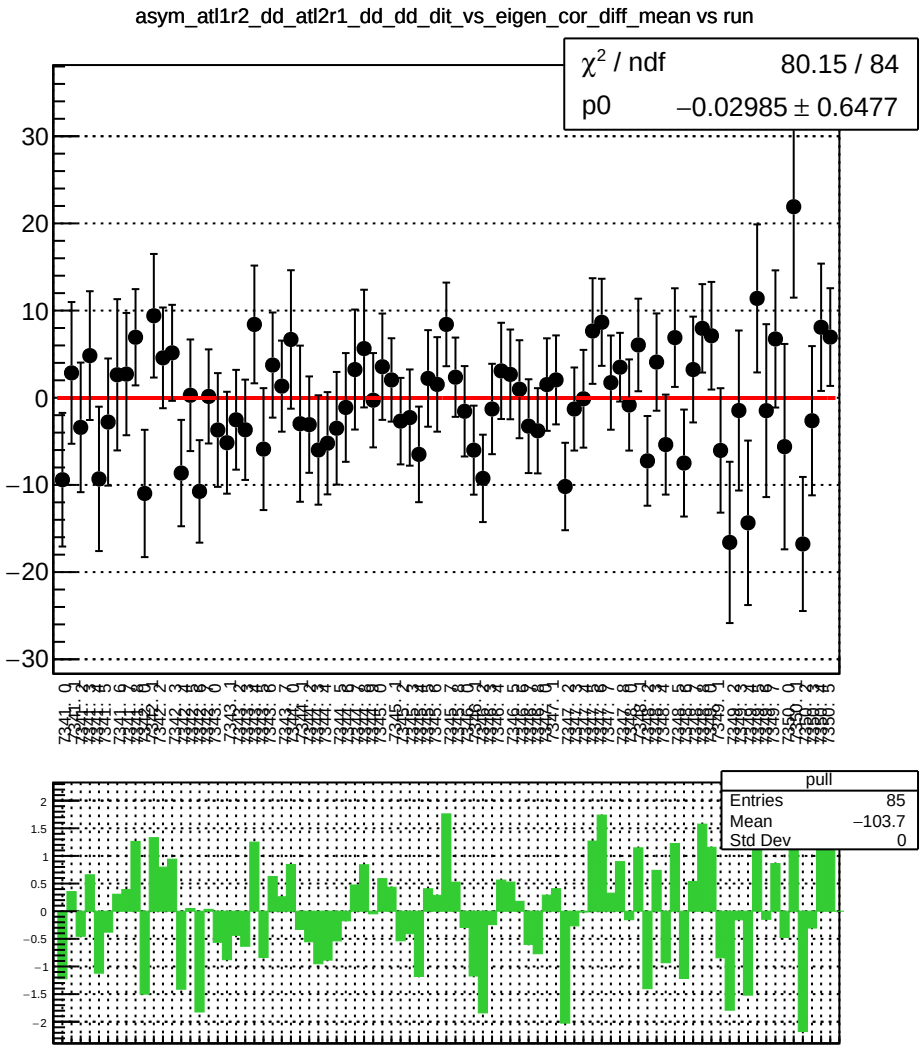

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.52 / 84
p0 4.586e−13 ± 2.091e−13
pull
Entries 85
Mean 45.38
Std Dev 30.92

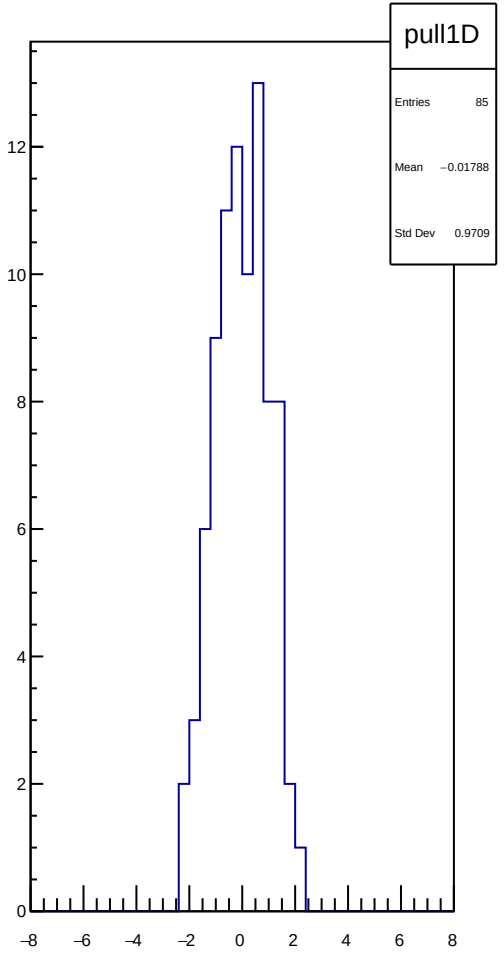

pull1D
Entries 85
Mean 0.08942
Std Dev 0.9194

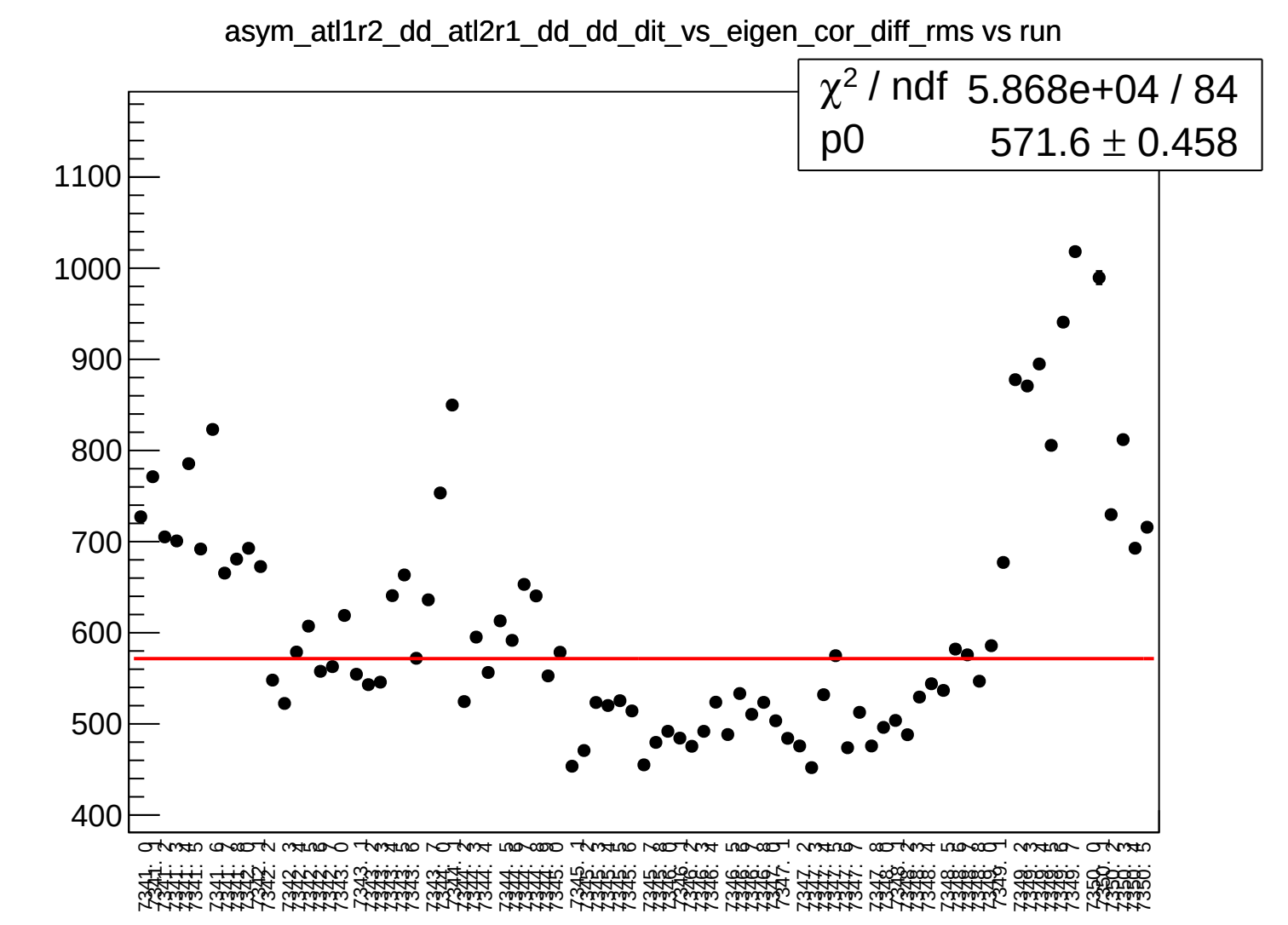

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.291e+06 / 84
p0 8.43e−11 ± 1.479e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

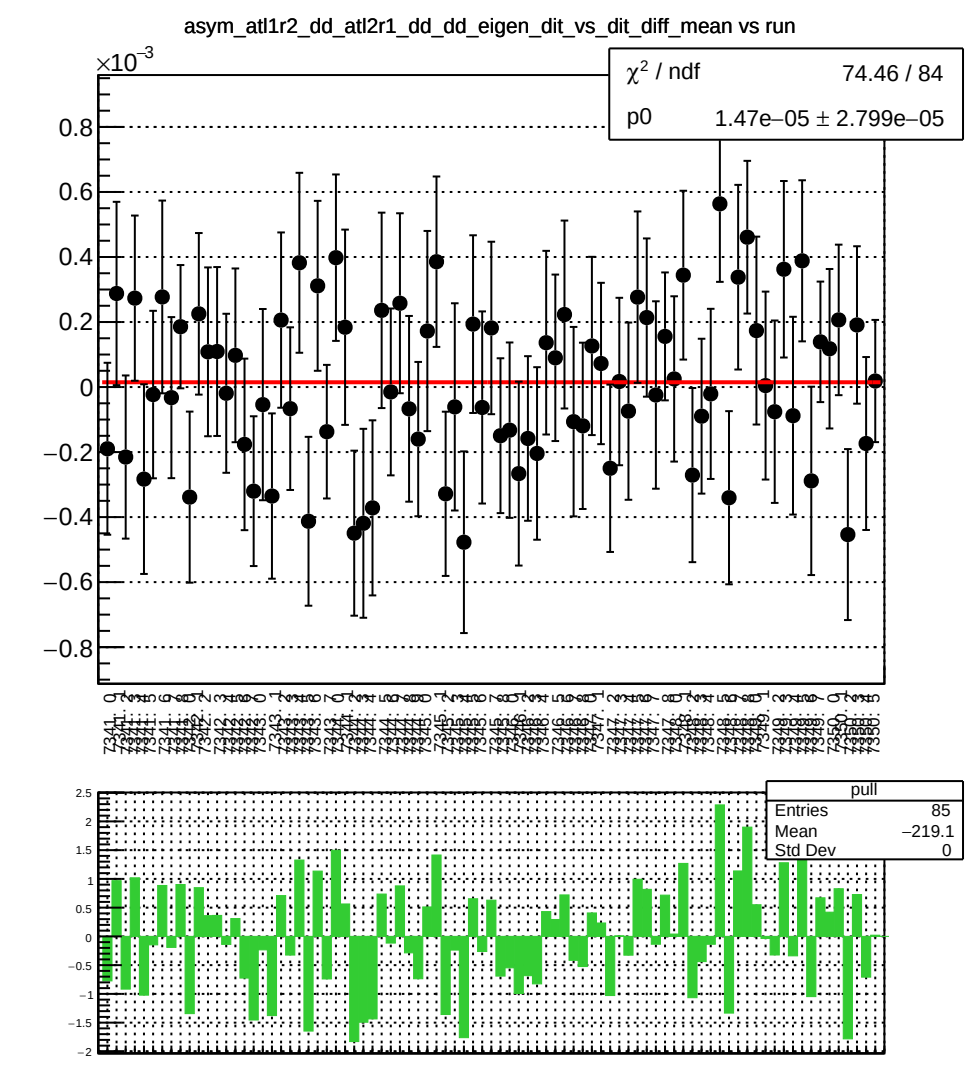

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.15 / 84
p0 −0.02985 ± 0.6477
pull
Entries 85
Mean −103.7
Std Dev 0
pull1D
Entries 85
Mean −0.01788
Std Dev 0.9709

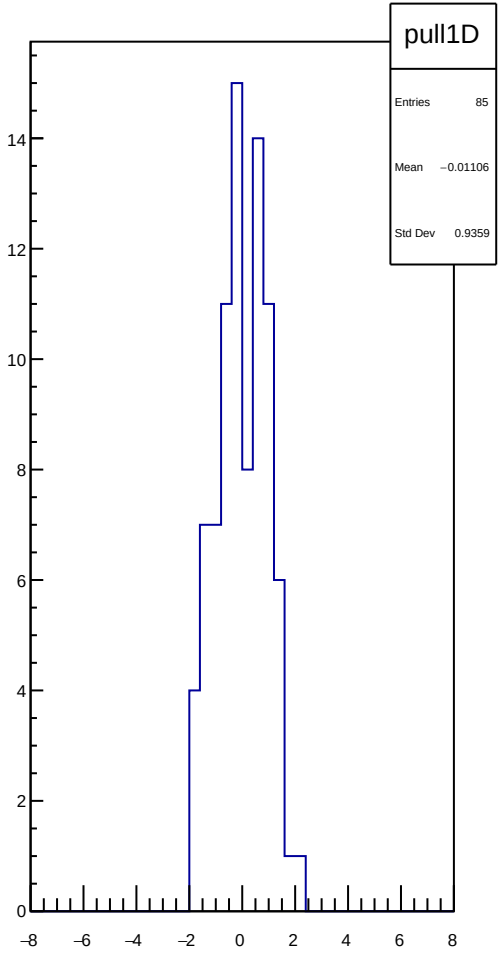

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

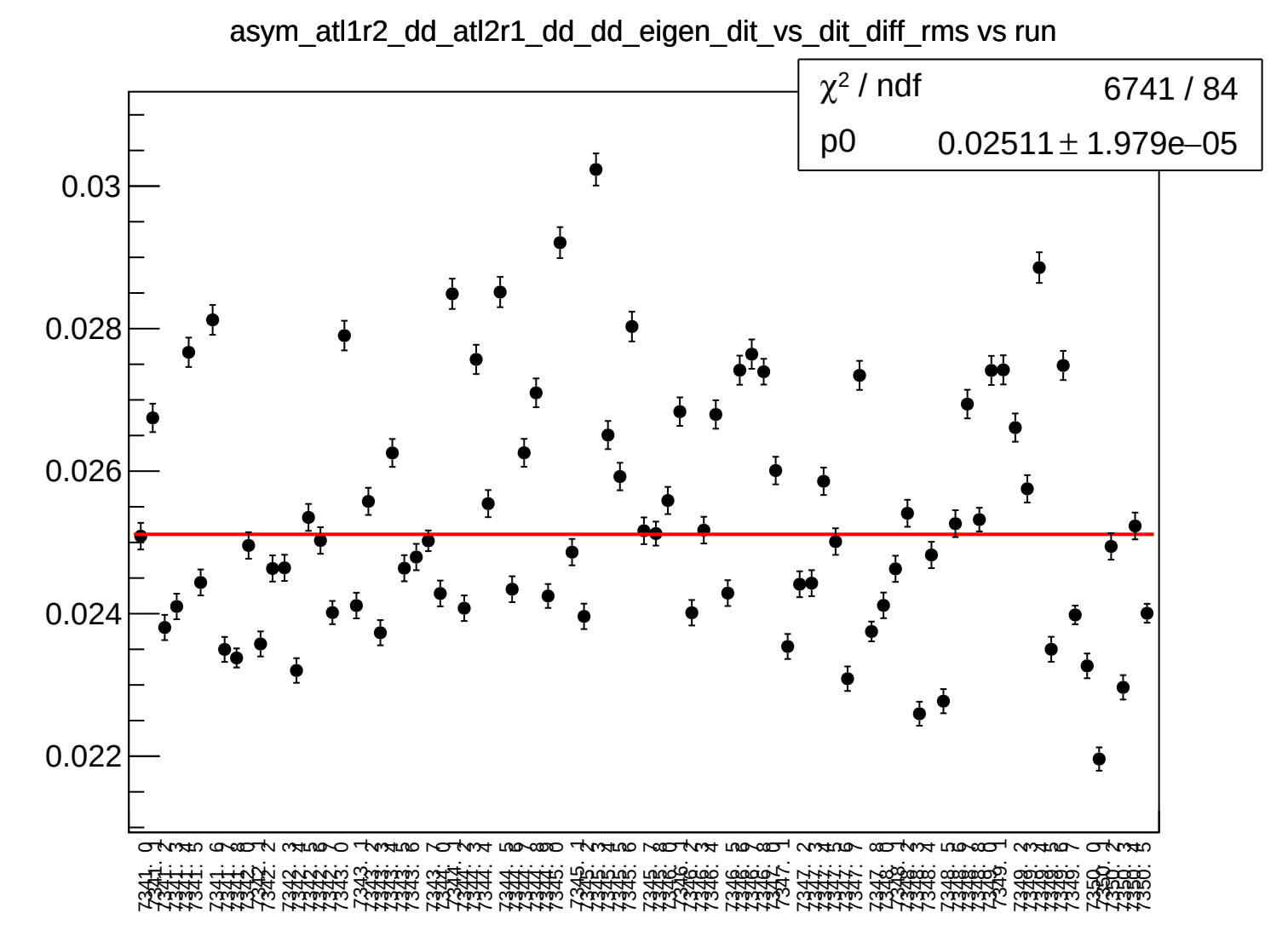

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.15 / 84
p0 −0.02985 ± 0.6477
pull
Entries 85
Mean −103.7
Std Dev 0

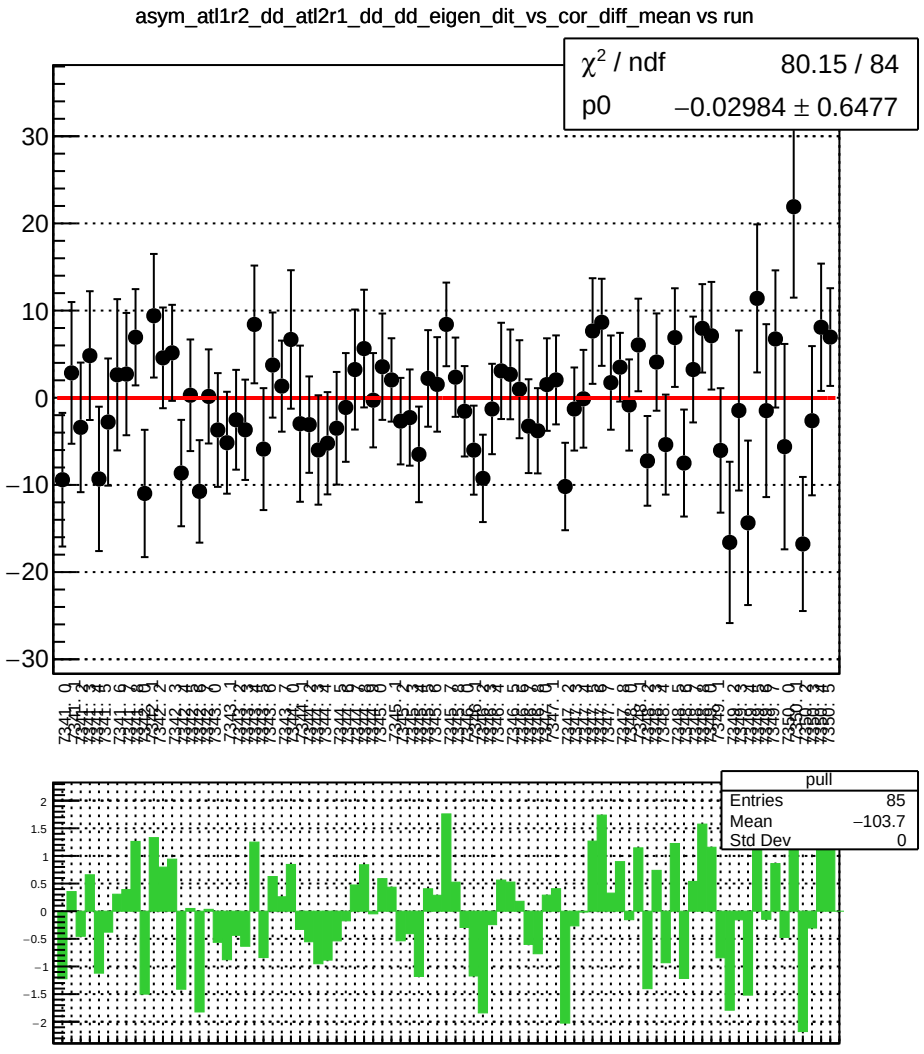

pull1D
Entries 85
Mean −0.01788
Std Dev 0.9709

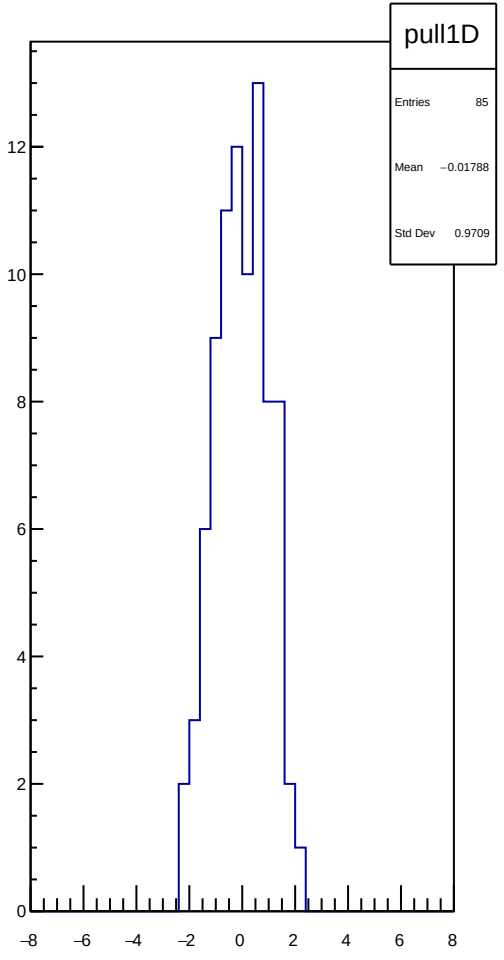

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

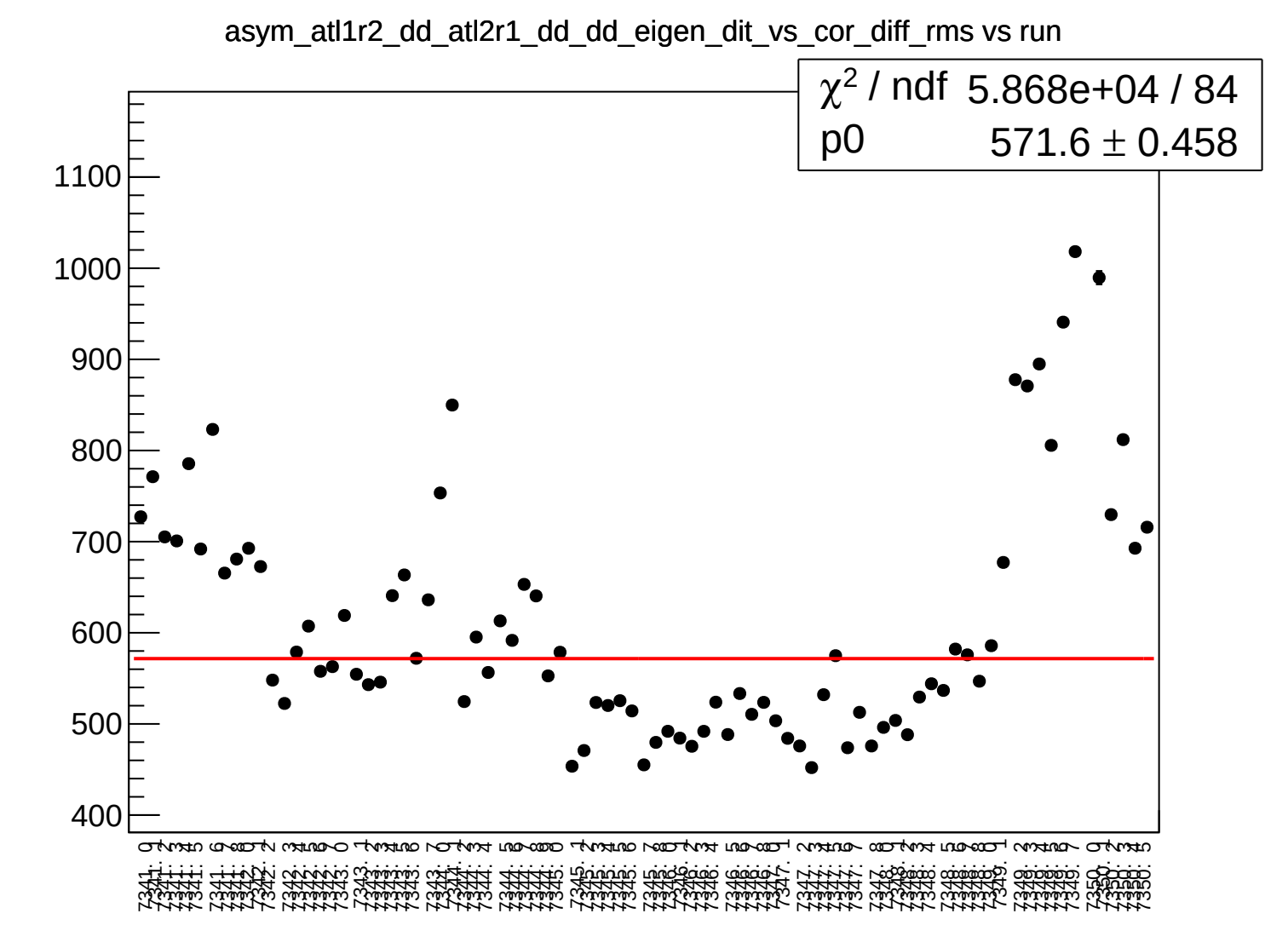

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.46 / 84
p0 1.47e−05 ± 2.799e−05
pull
Entries 85
Mean −219.1
Std Dev 0

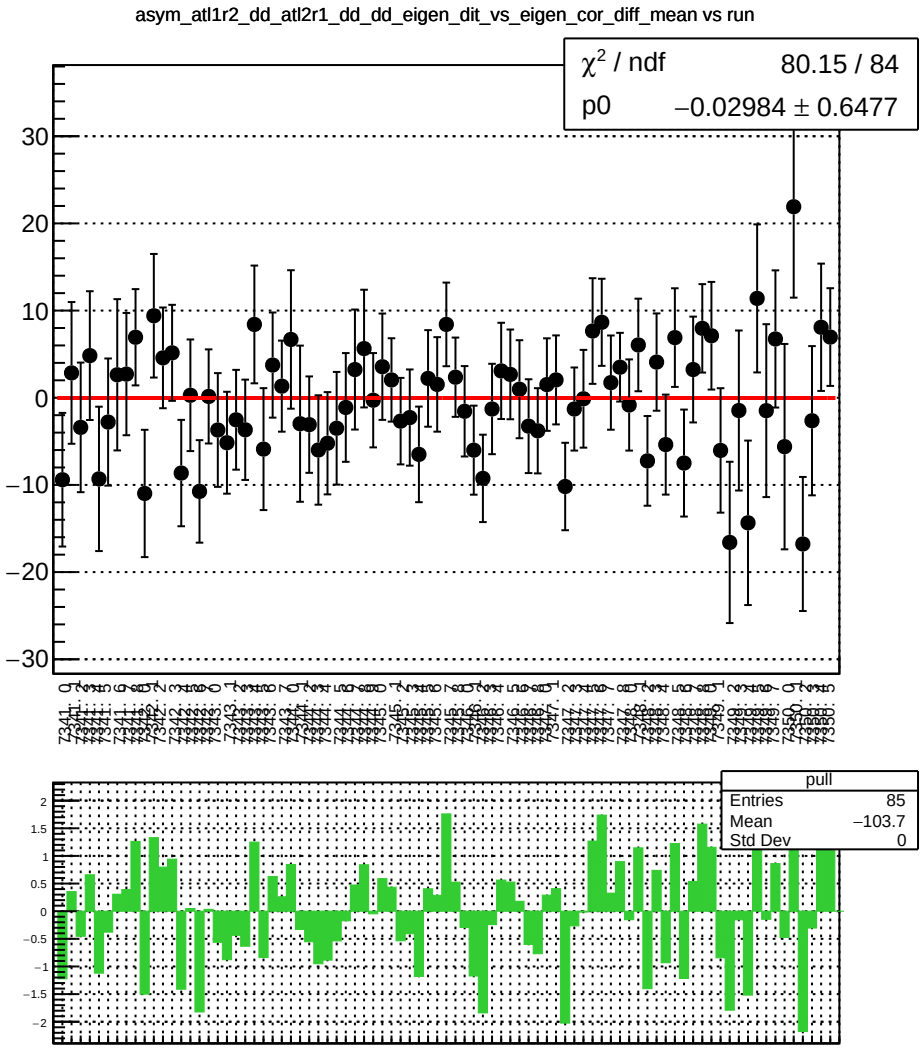

pull1D
Entries 85
Mean −0.01106
Std Dev 0.9359

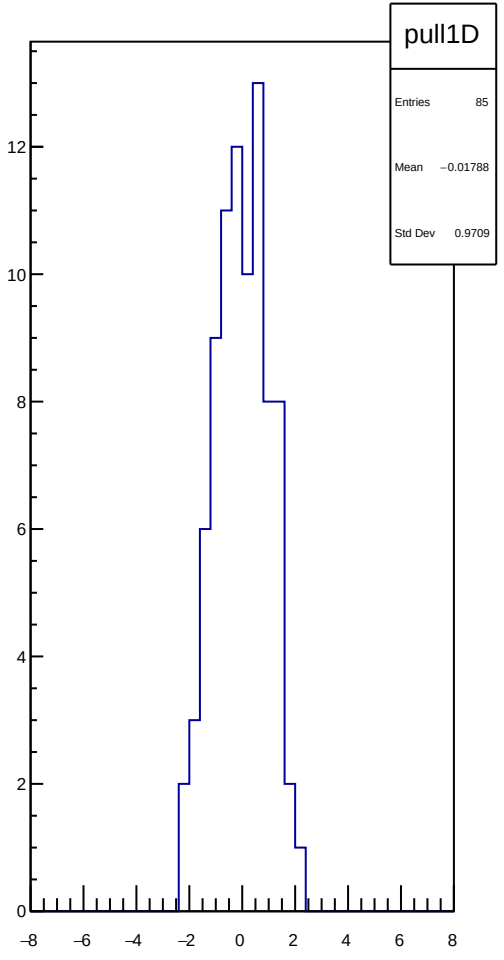

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6741 / 84
p0 0.02511 ± 1.979e−05
0.03
0.028
0.026
0.024
0.022

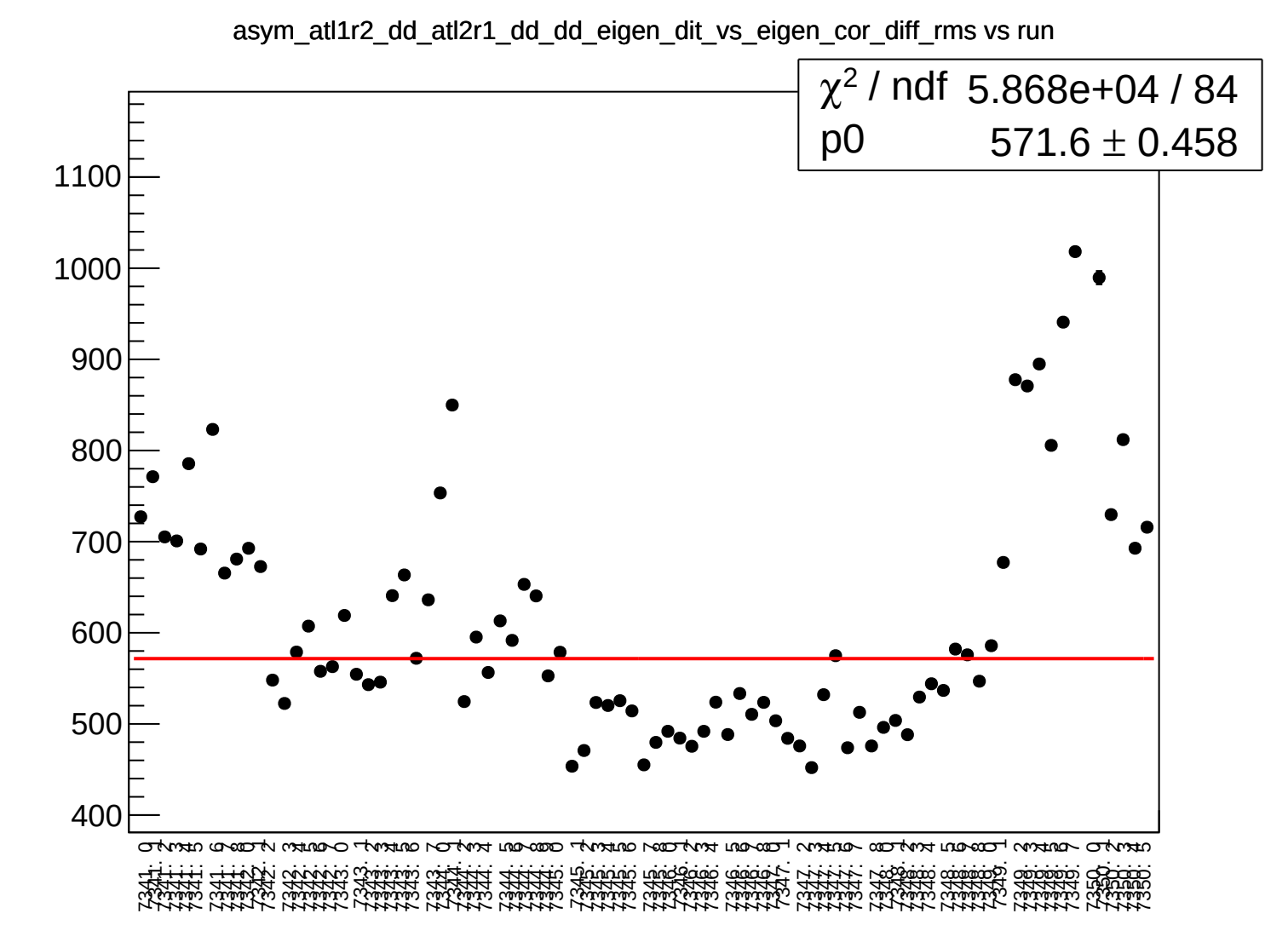

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.15 / 84
p0 −0.02984 ± 0.6477
pull
Entries 85
Mean −103.7
Std Dev 0

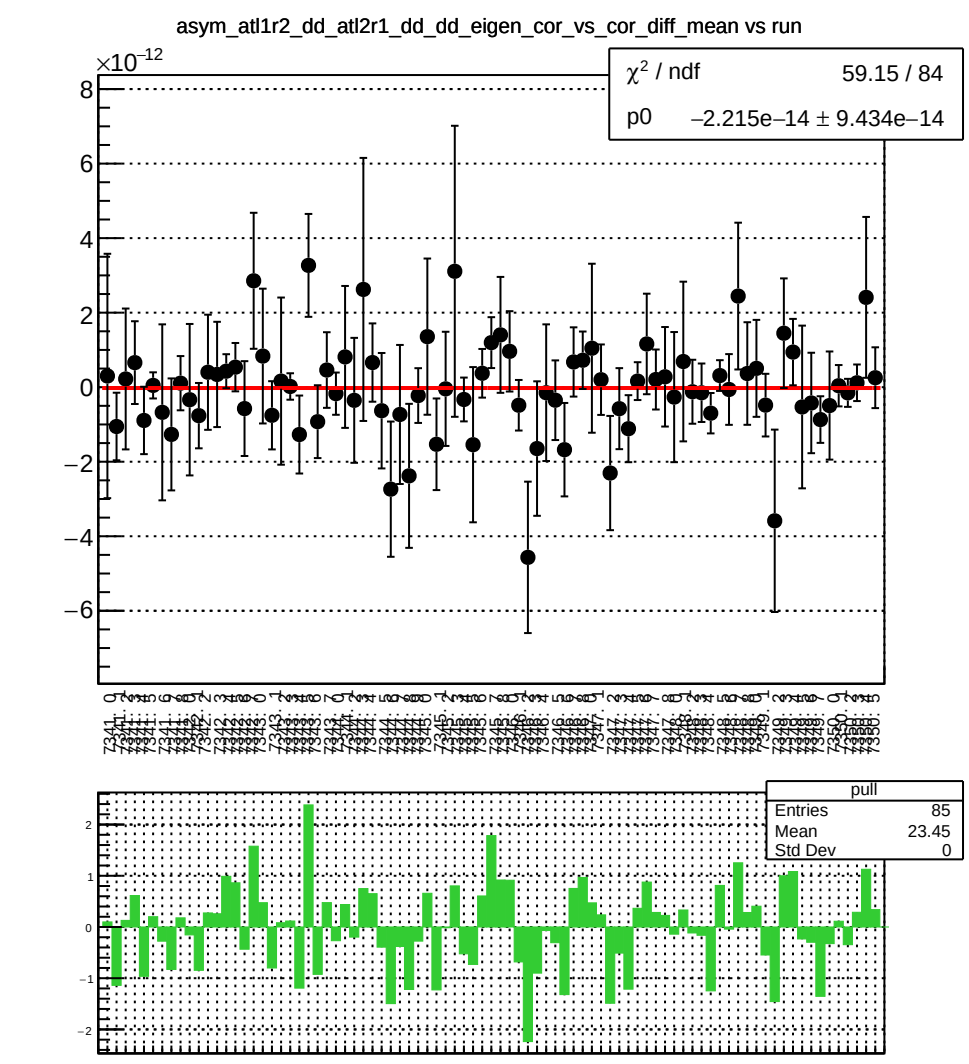

pull1D
Entries 85
Mean −0.01788
Std Dev 0.9709

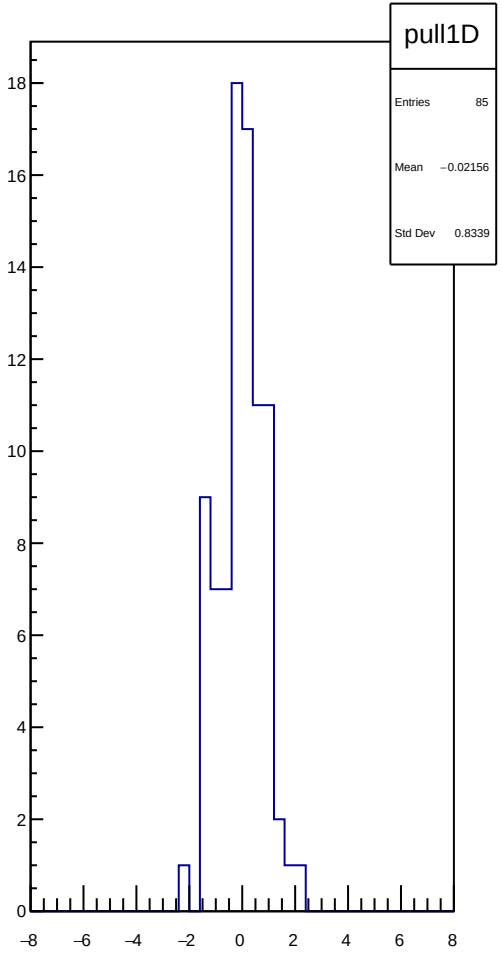

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

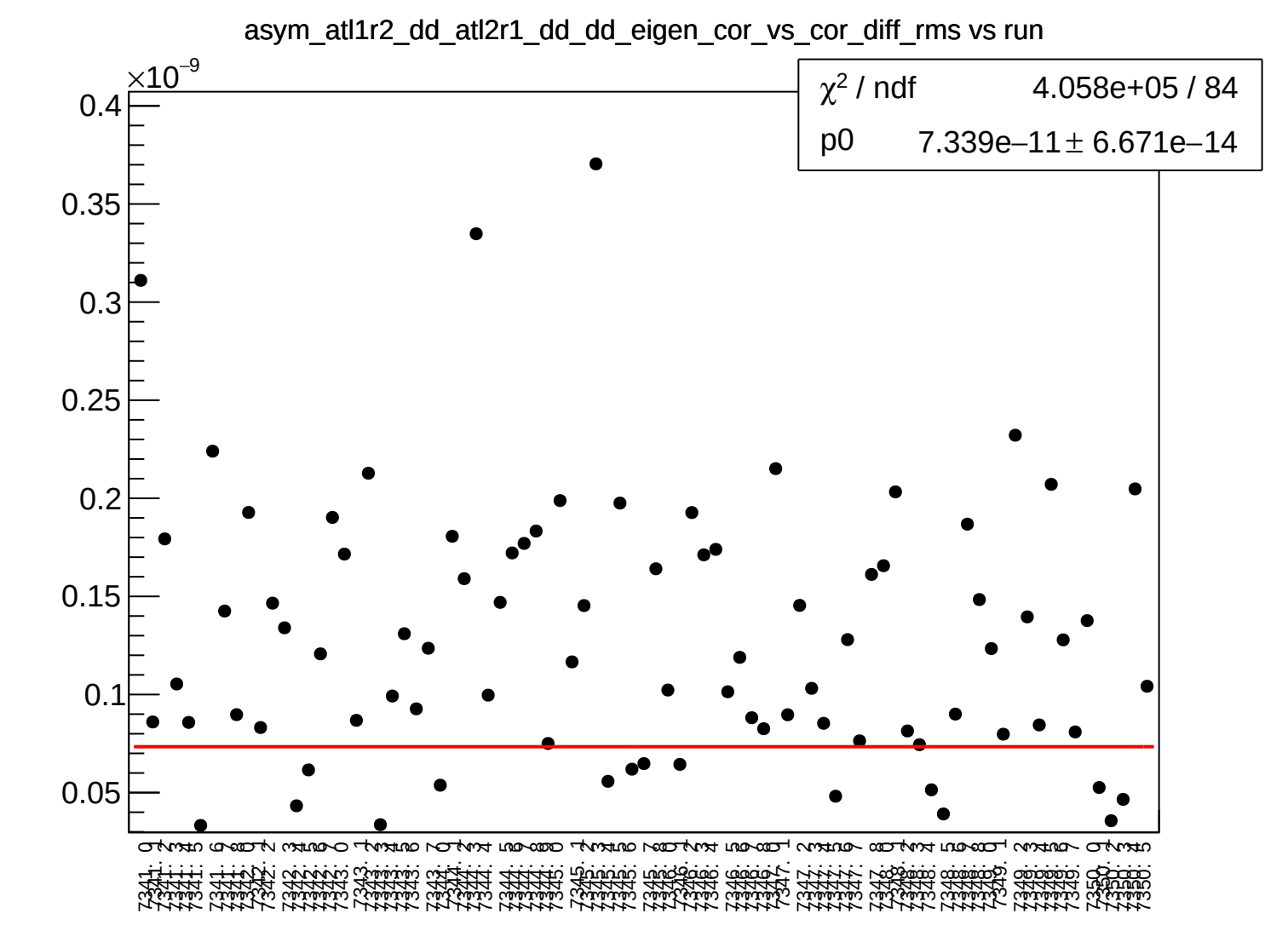

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.15 / 84
p0 −0.02984 ± 0.6477
pull
Entries 85
Mean −103.7
Std Dev 0

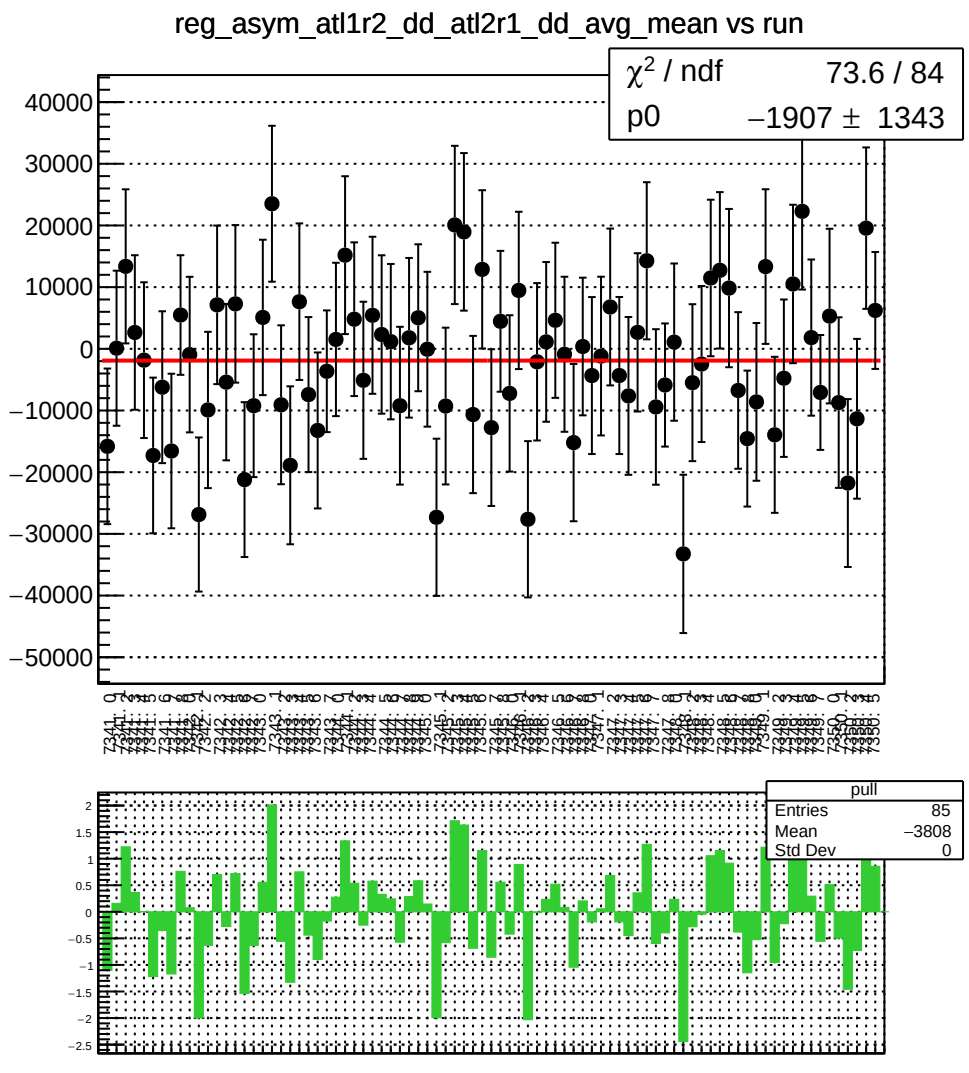

pull1D
Entries 85
Mean −0.01788
Std Dev 0.9709

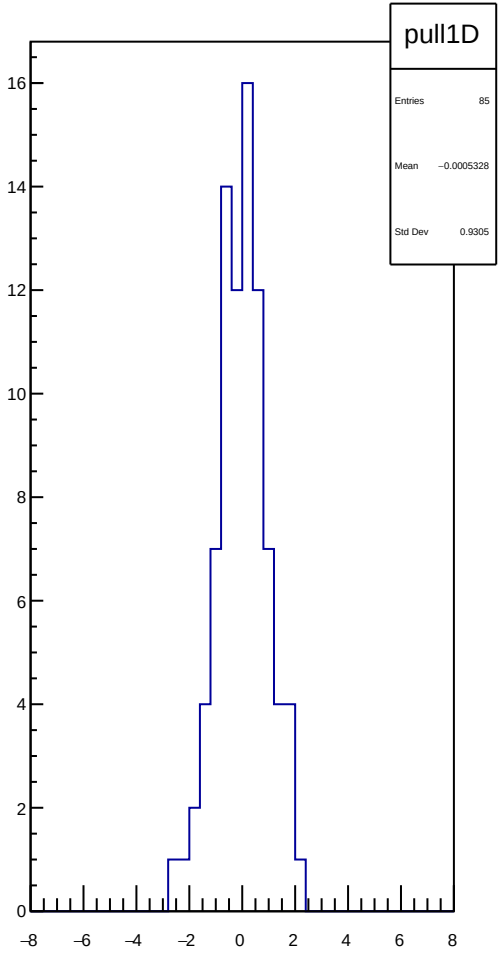

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.868e+04 / 84
p0 571.6 ± 0.458
1100
1000
900
800
700
600
500
400

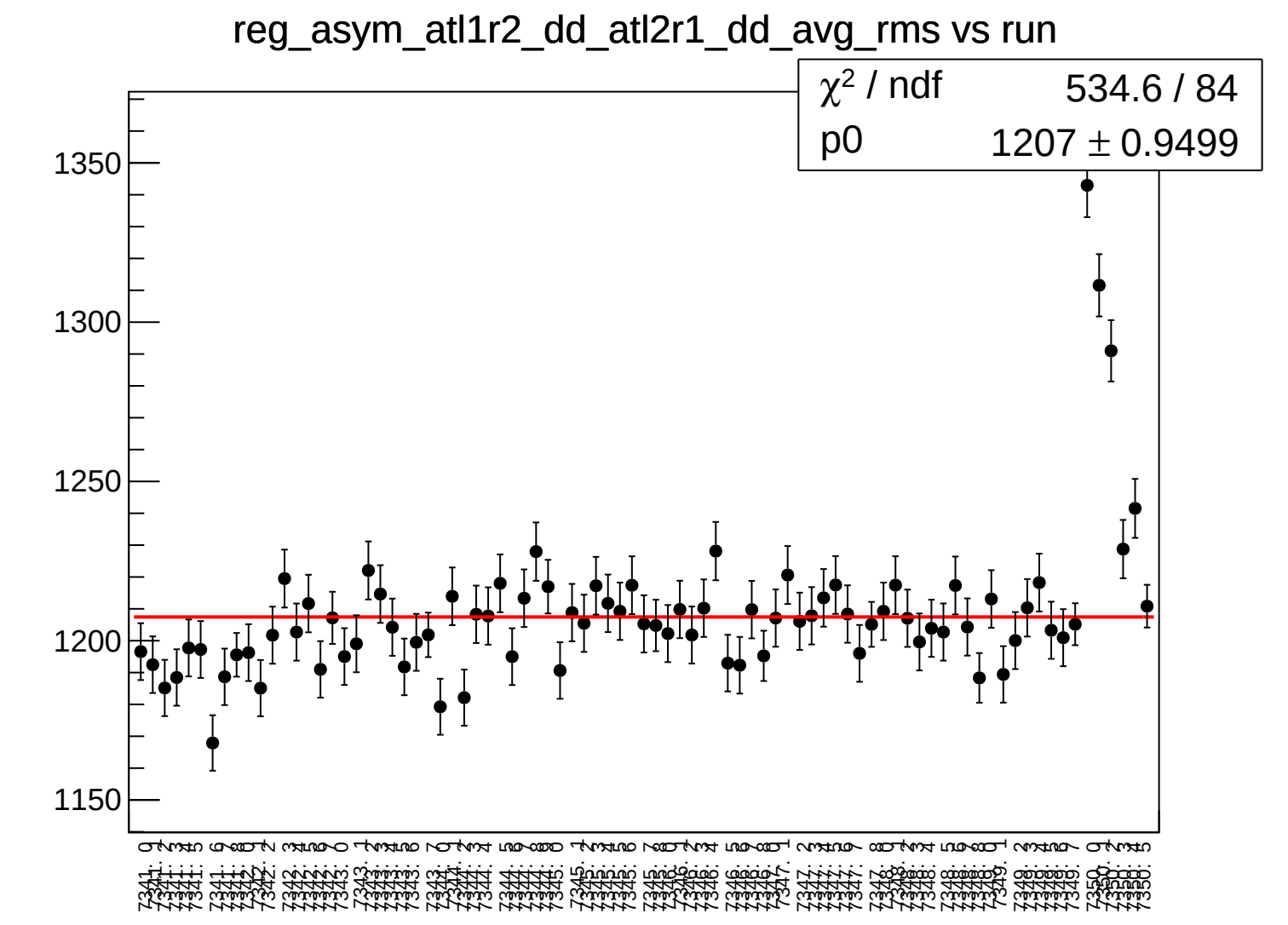

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.15 / 84
p0 −2.215e−14 ± 9.434e−14
pull
Entries 85
Mean 23.45
Std Dev 0

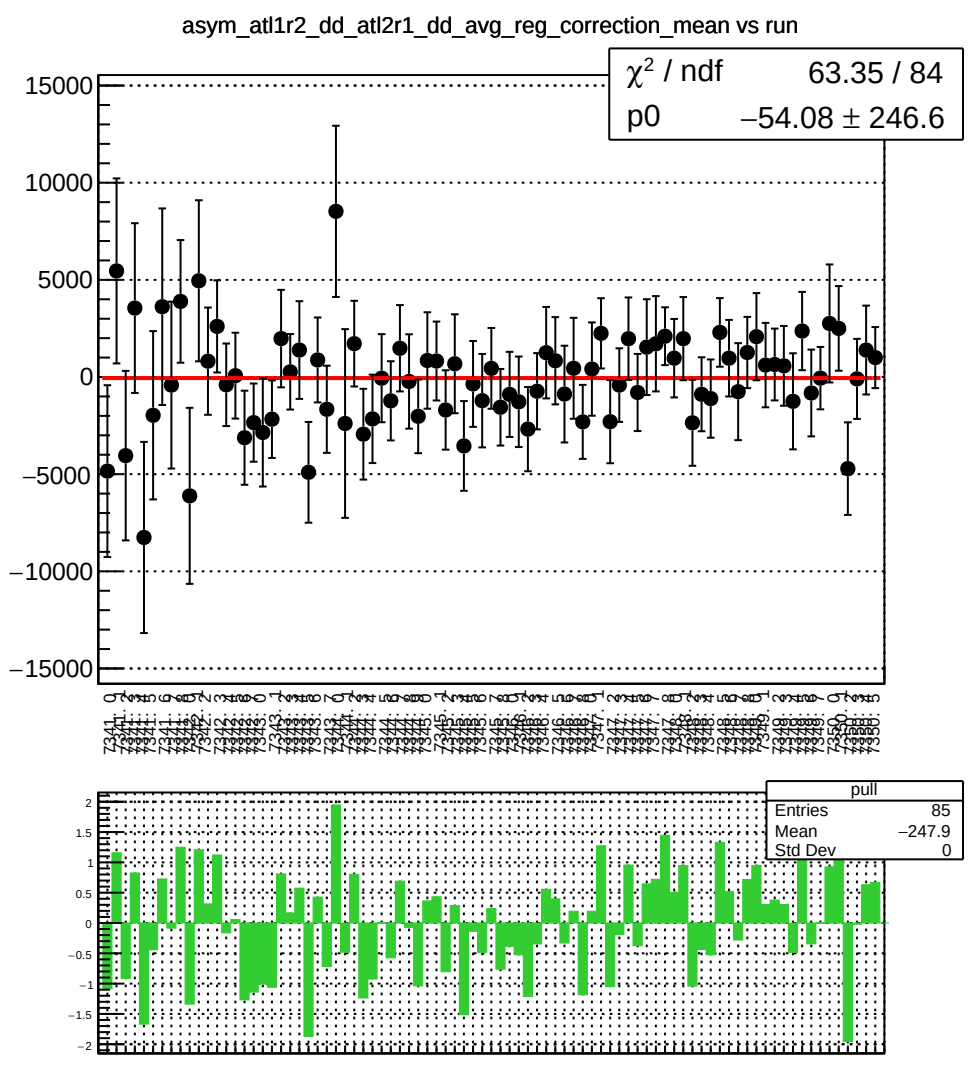

pull1D
Entries 85
Mean −0.02156
Std Dev 0.8339

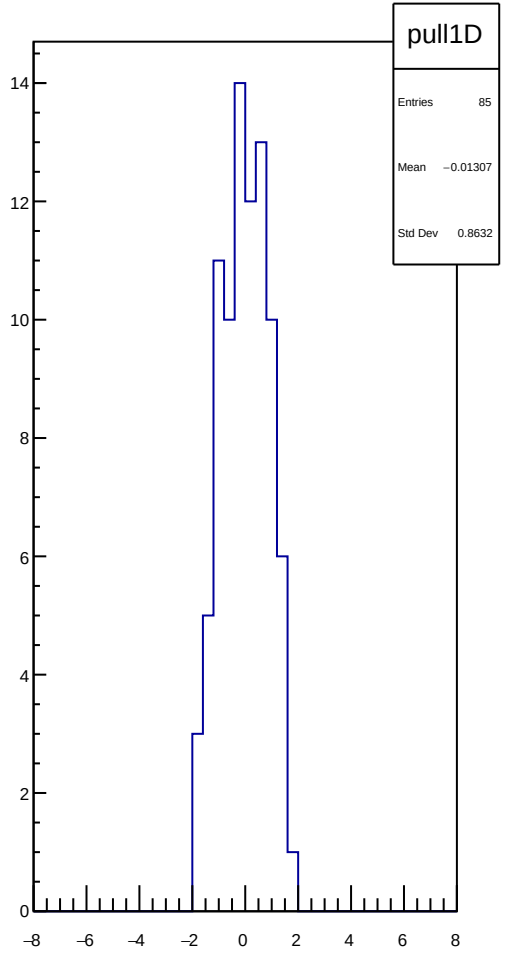

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.058e+05 / 84
p0 7.339e−11 ± 6.671e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

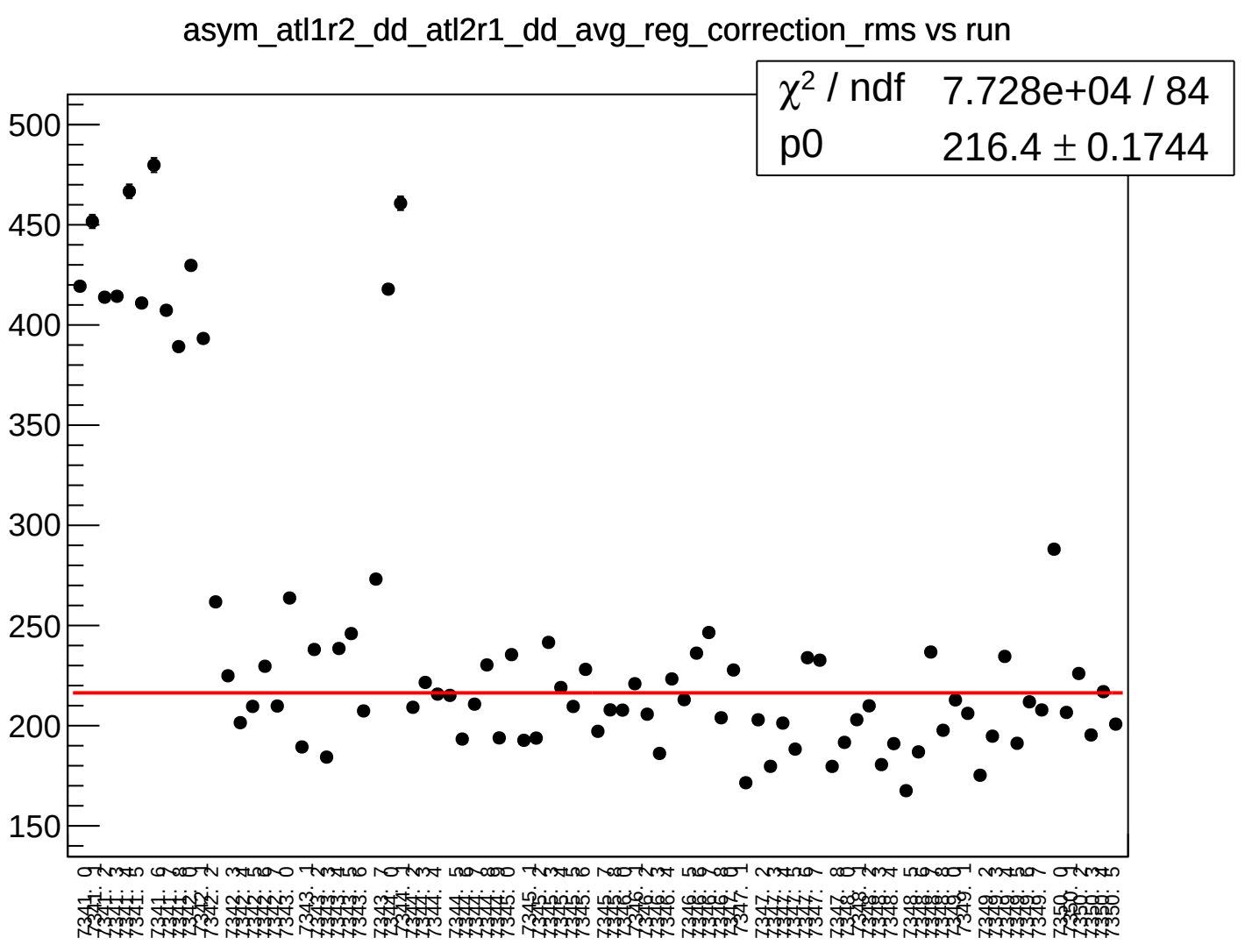

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 73.6 / 84
p0 −1907 ± 1343
pull
Entries 85
Mean −3808
Std Dev 0

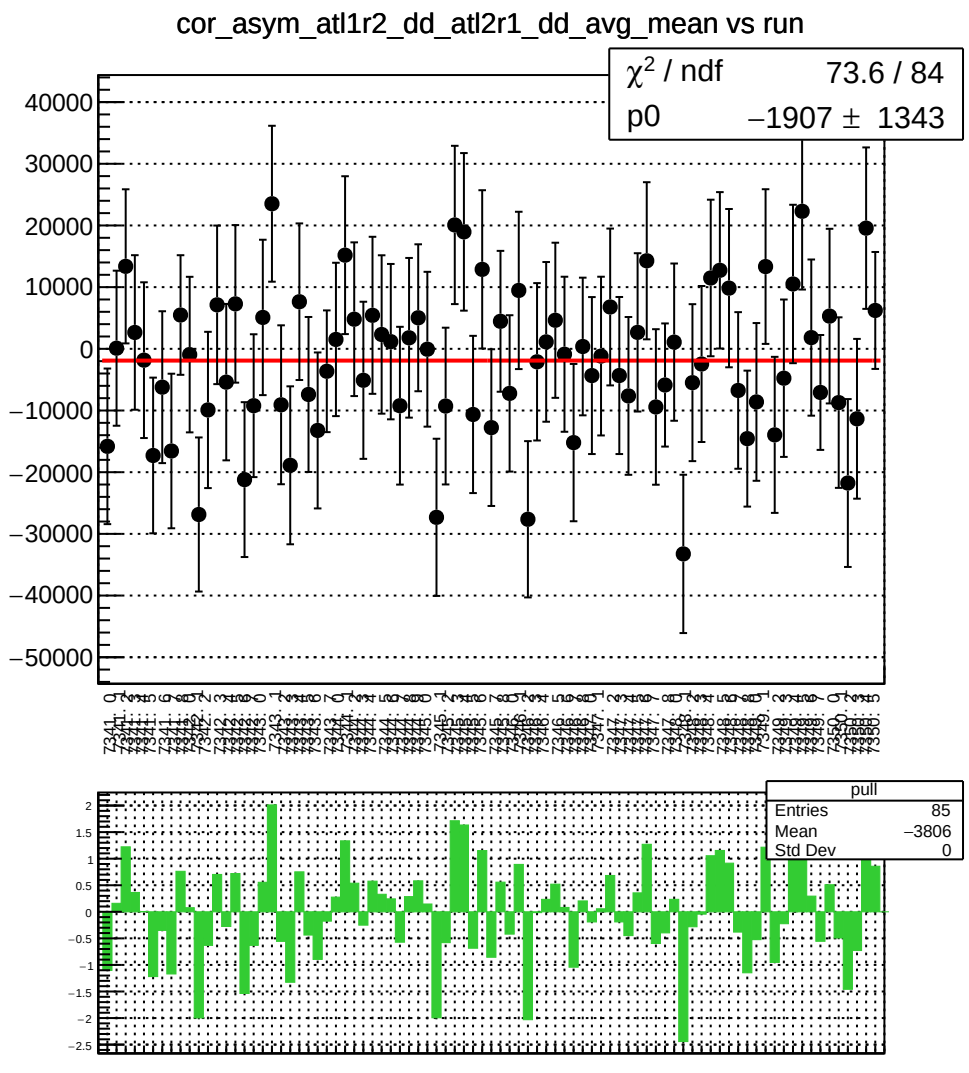

pull1D
Entries 85
Mean −0.0005328
Std Dev 0.9305

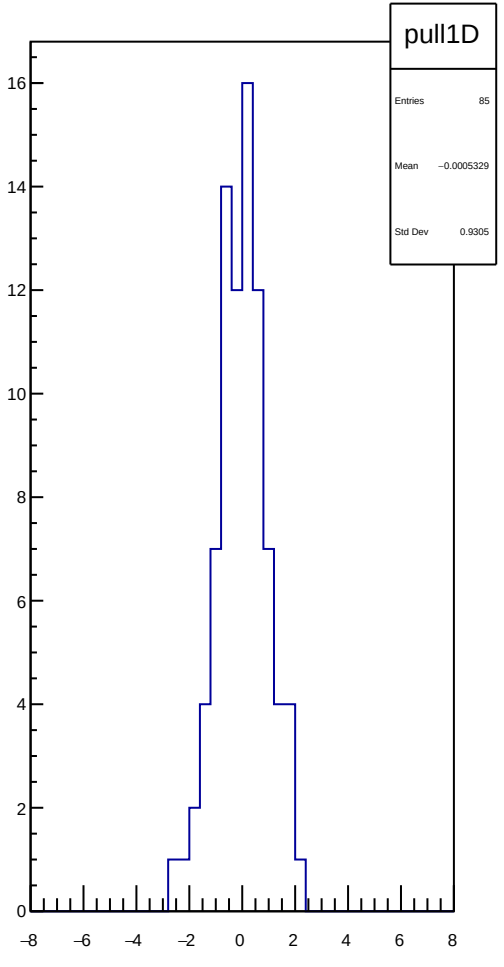

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 534.6 / 84
p0 1207 ± 0.9499
1350
1300
1250
1200
1150

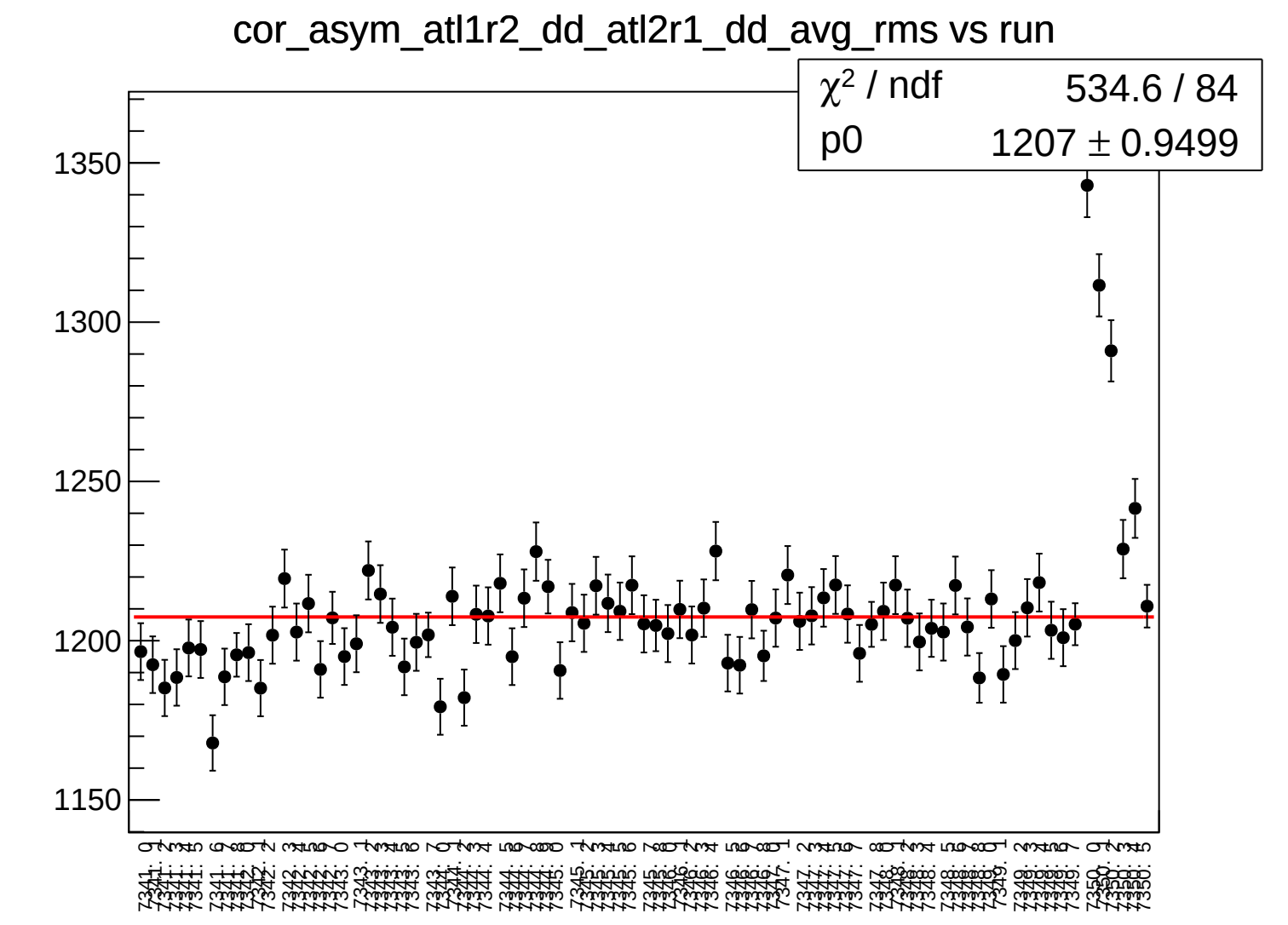

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 63.35 / 84
p0 −54.08 ± 246.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −247.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

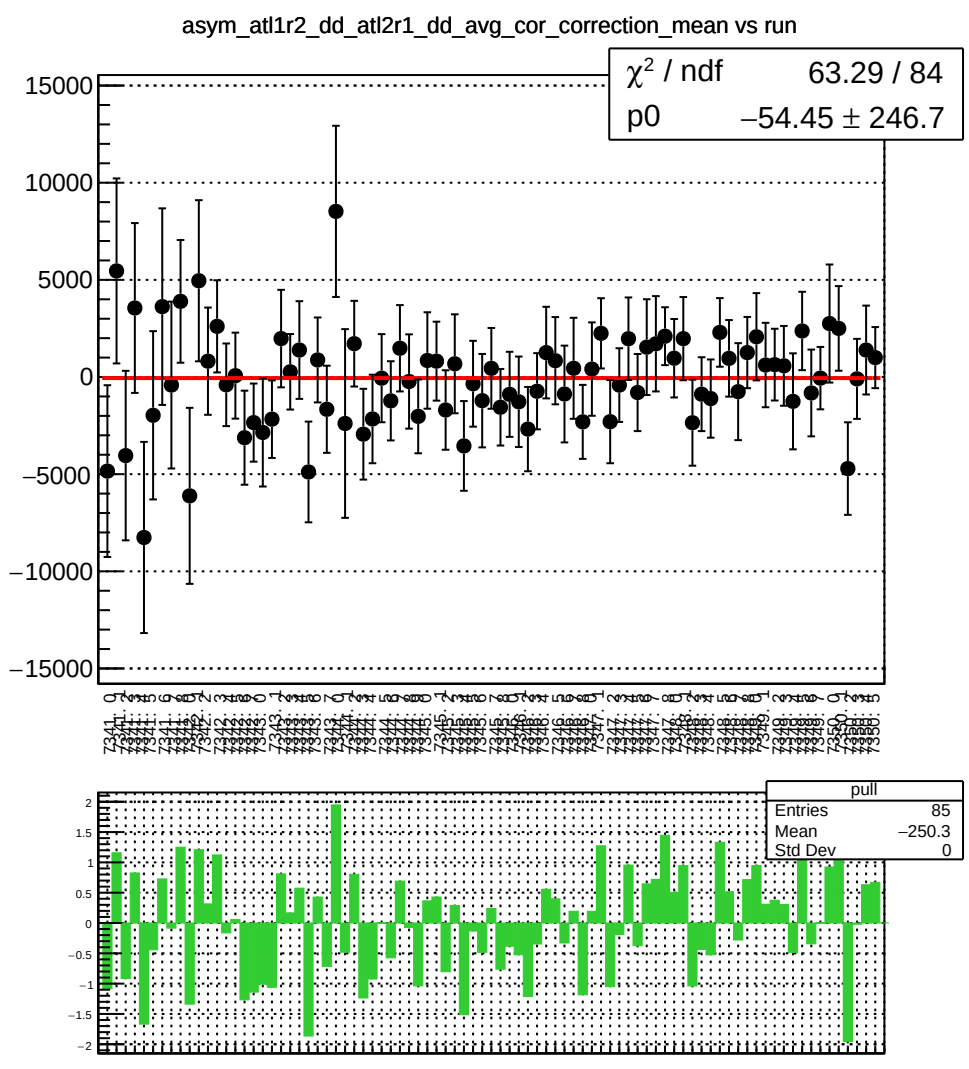

pull1D
Entries 85
Mean −0.01307
Std Dev 0.8632
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

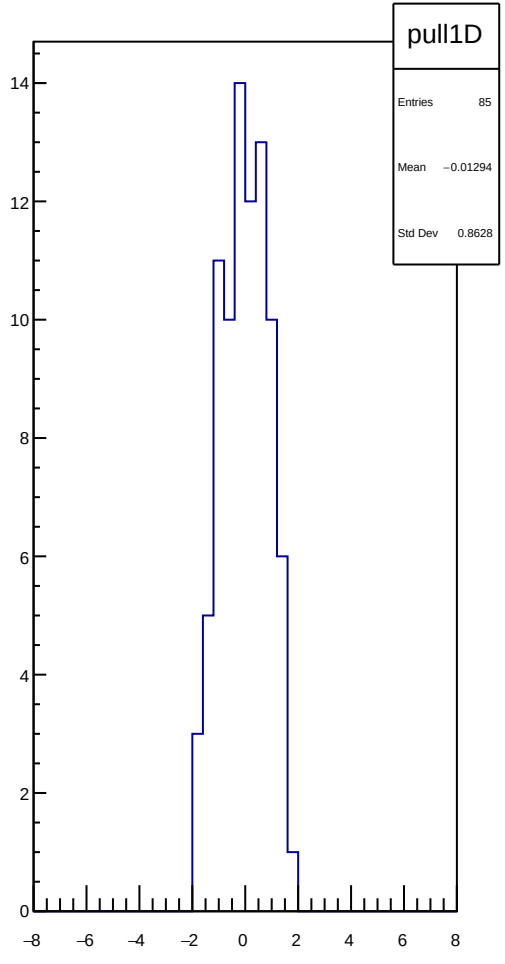

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 7.728e+04 / 84
p0 216.4 ± 0.1744
500
450
400
350
300
250
200
150

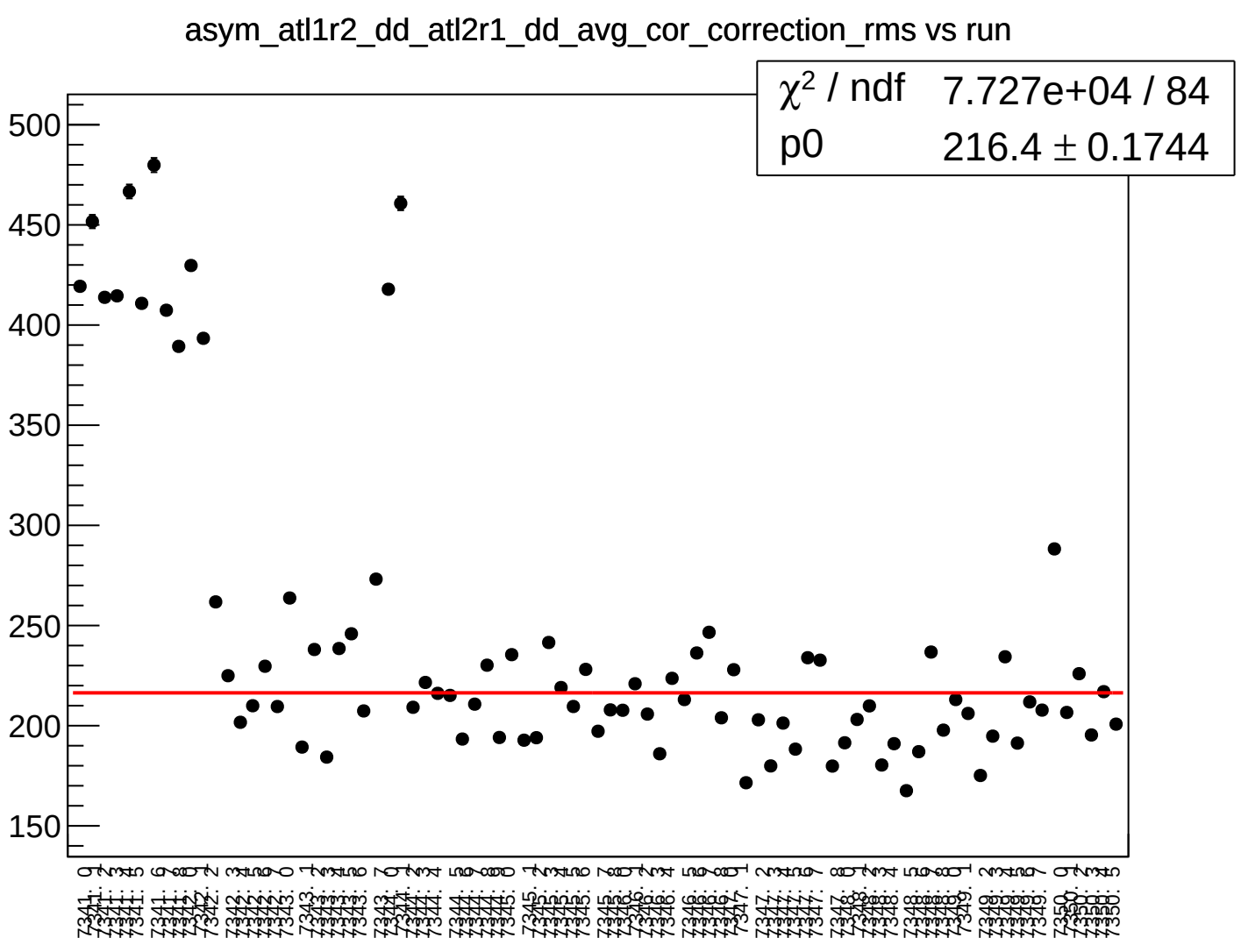

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 73.6 / 84
p0 −1907 ± 1343
pull
Entries 85
Mean −3806
Std Dev 0

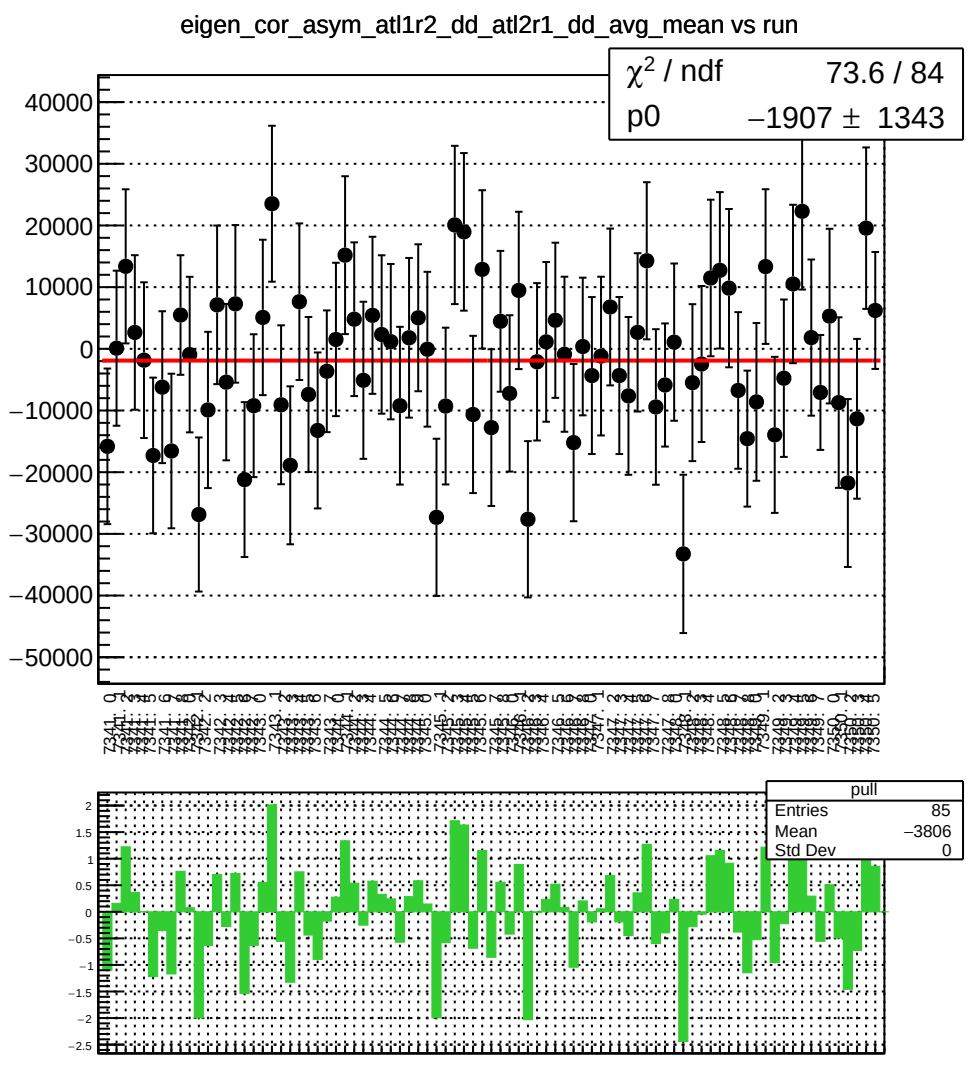

pull1D
Entries 85
Mean −0.0005329
Std Dev 0.9305

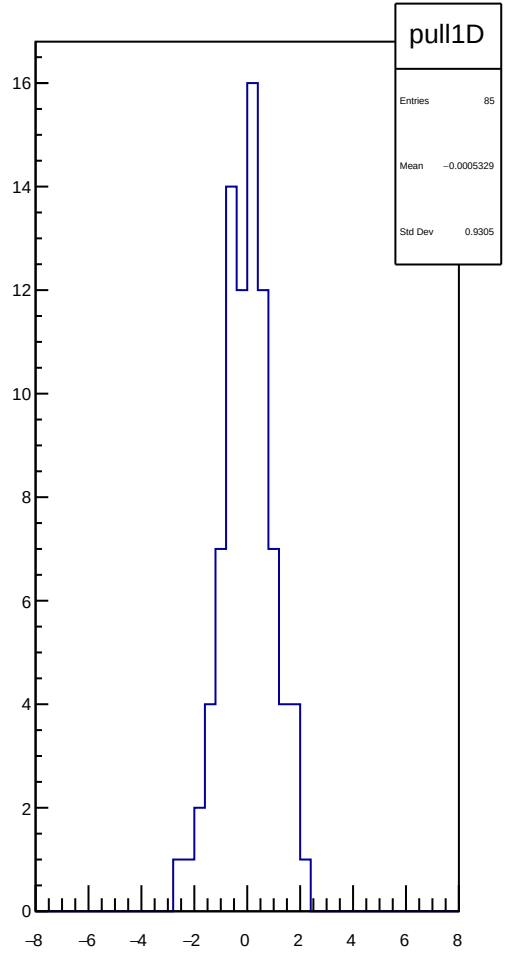

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 534.6 / 84
p0 1207 ± 0.9499
1350
1300
1250
1200
1150

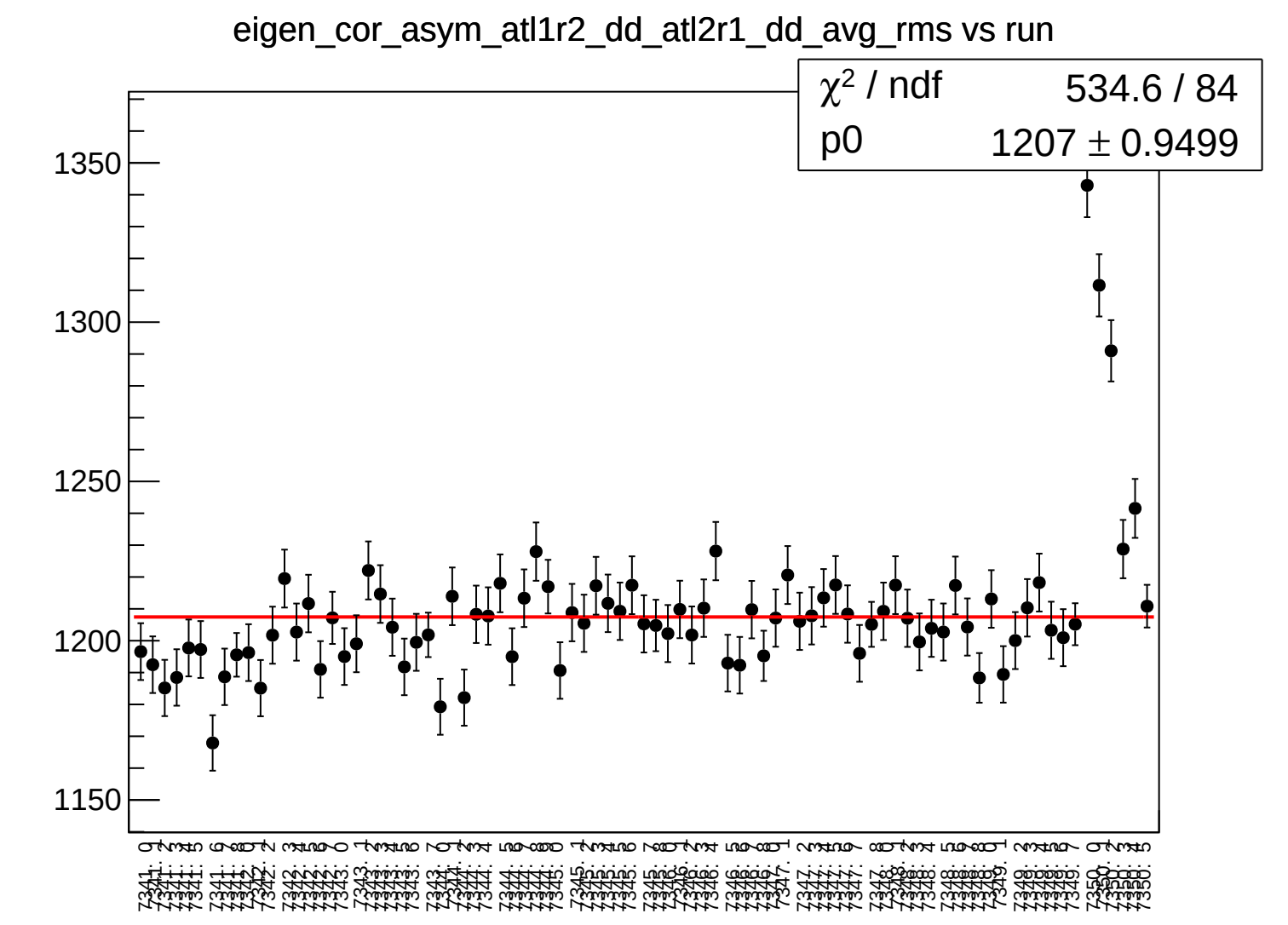

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 63.29 / 84
p0 −54.45 ± 246.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −250.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

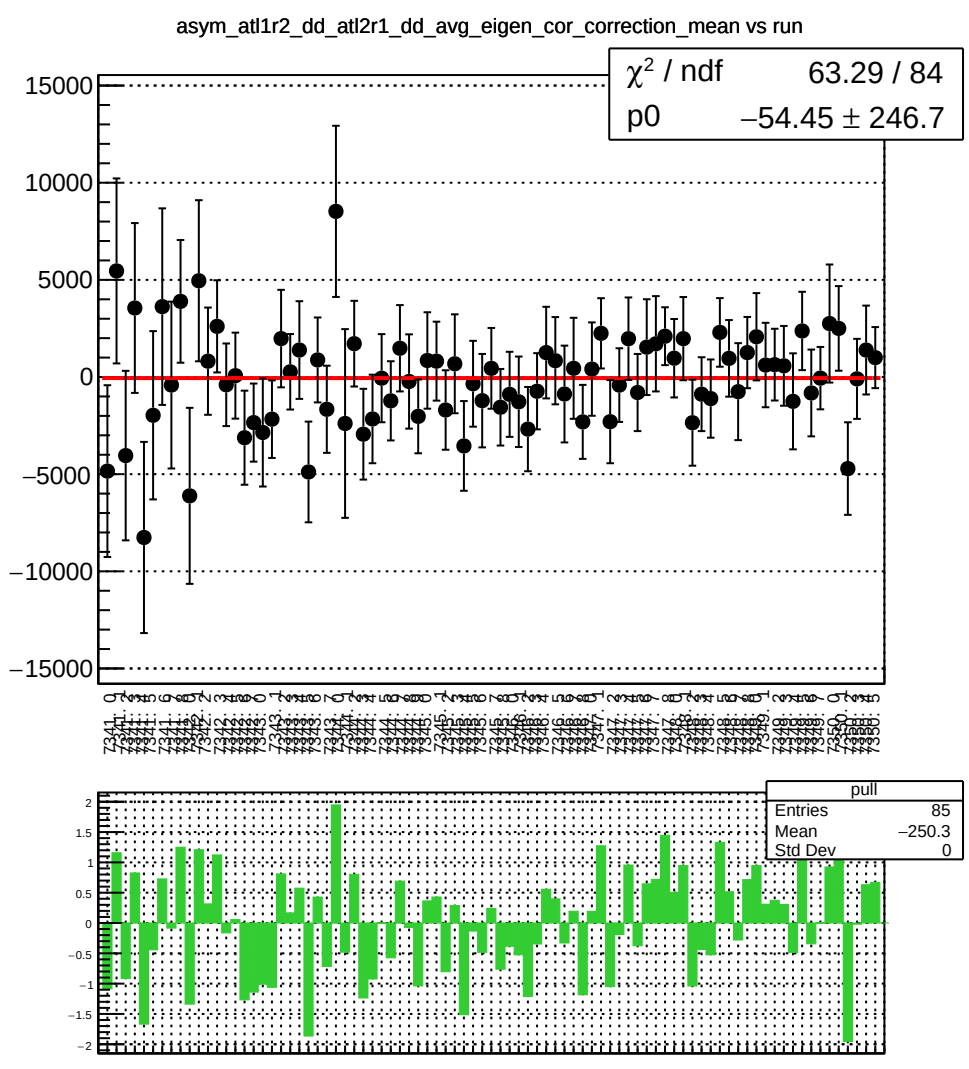

pull1D
Entries 85
Mean −0.01294
Std Dev 0.8628
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

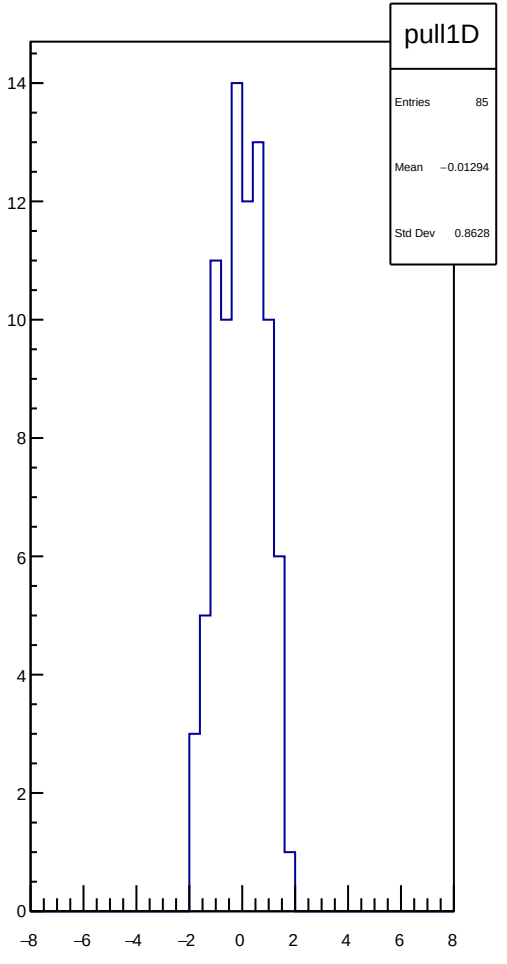

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 7.727e+04 / 84
p0 216.4 ± 0.1744
500
450
400
350
300
250
200
150

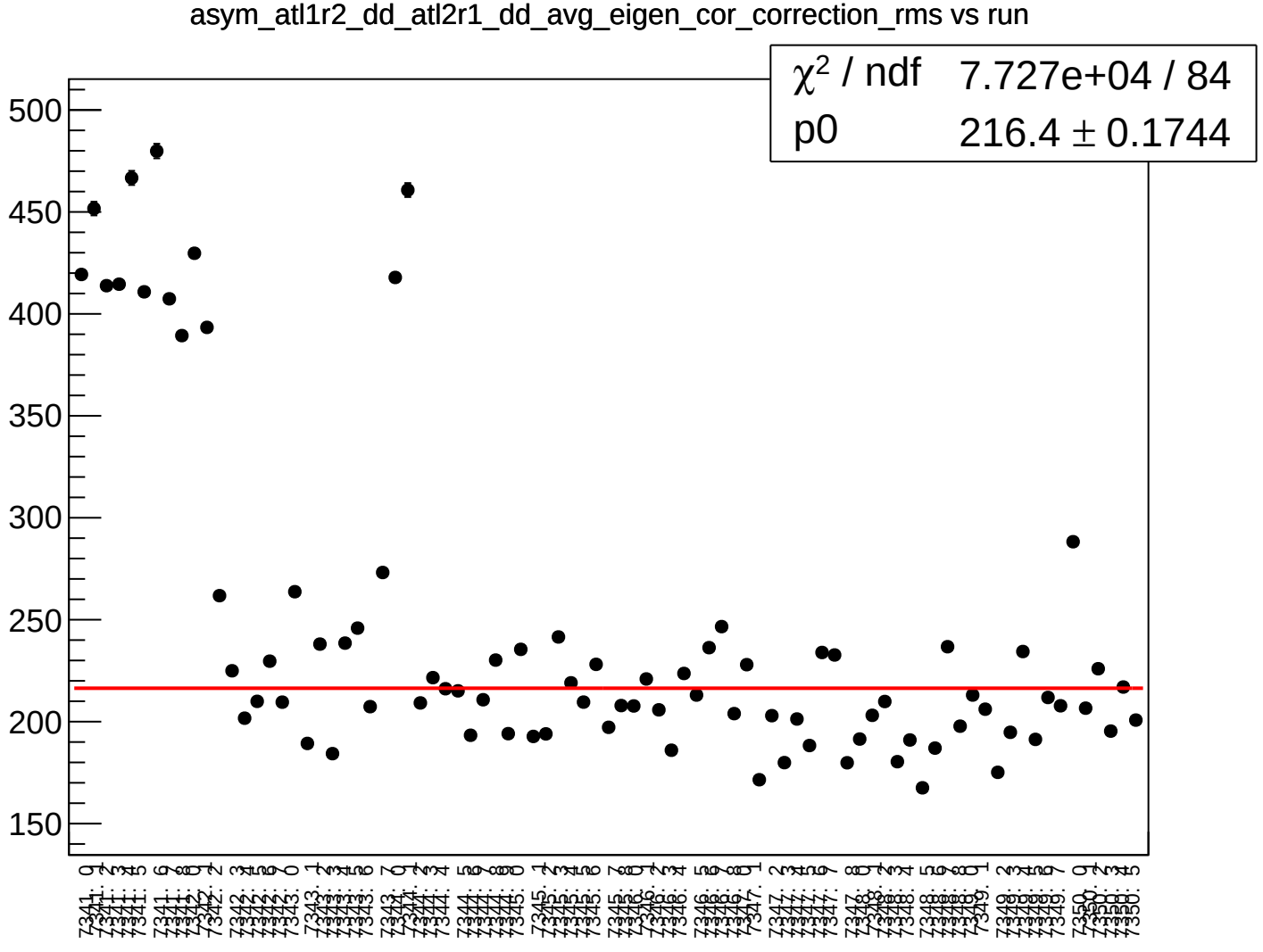

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 73.6 / 84
p0 −1907 ± 1343
pull
Entries 85
Mean −3806
Std Dev 0

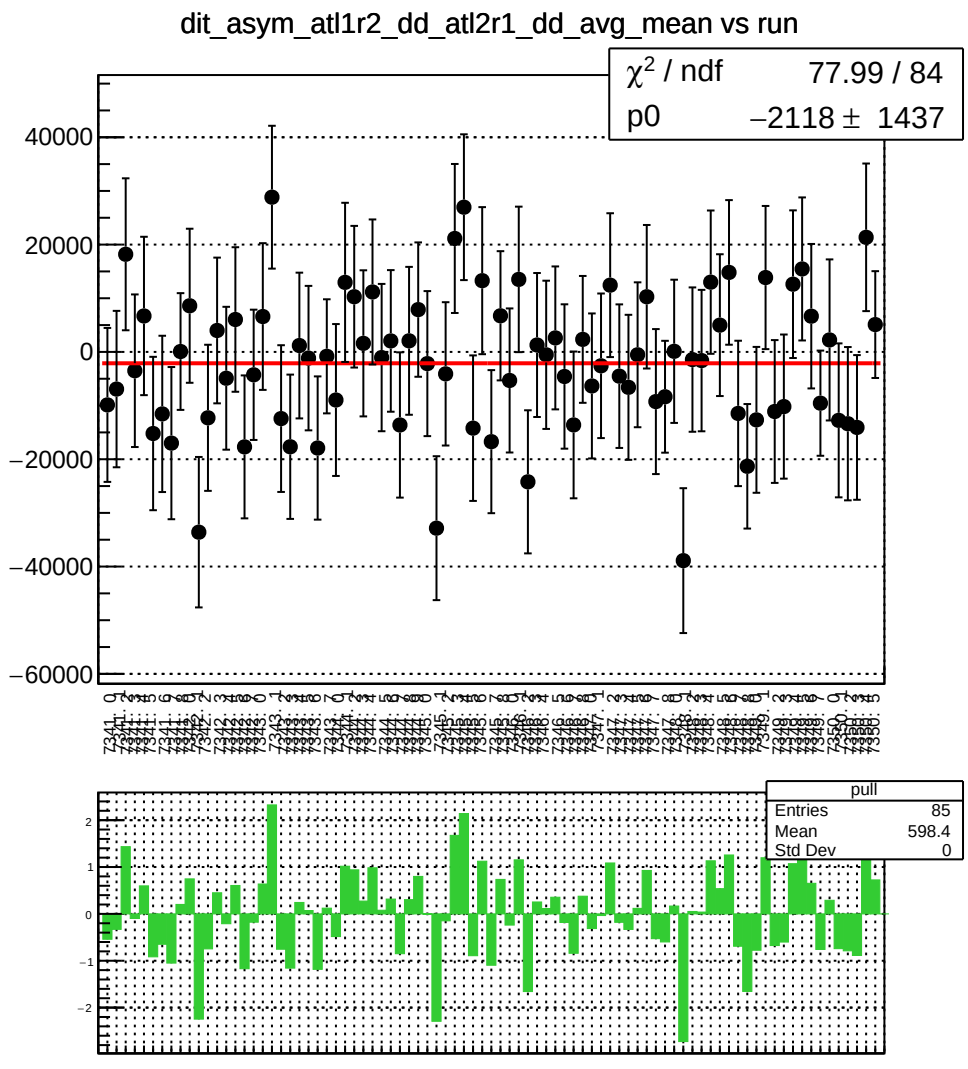

pull1D
Entries 85
Mean −0.0005329
Std Dev 0.9305

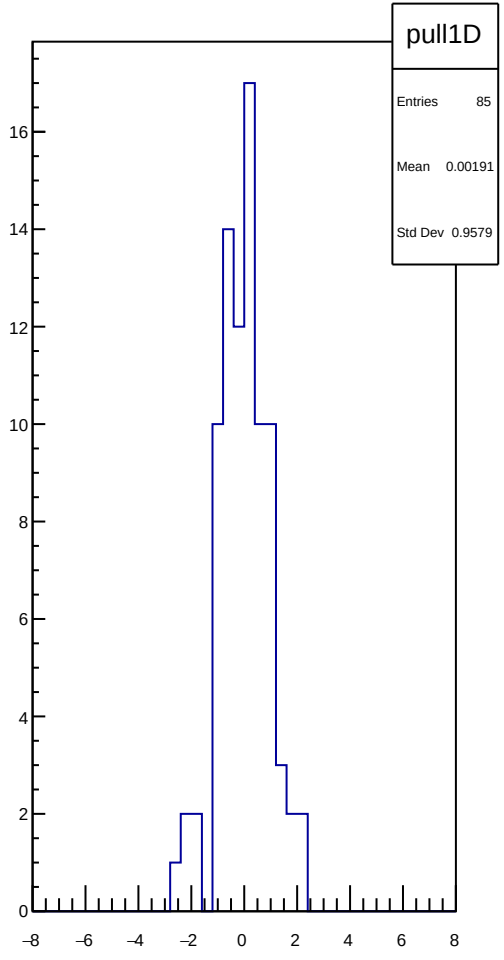

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 534.6 / 84
p0 1207 ± 0.9499
1350
1300
1250
1200
1150

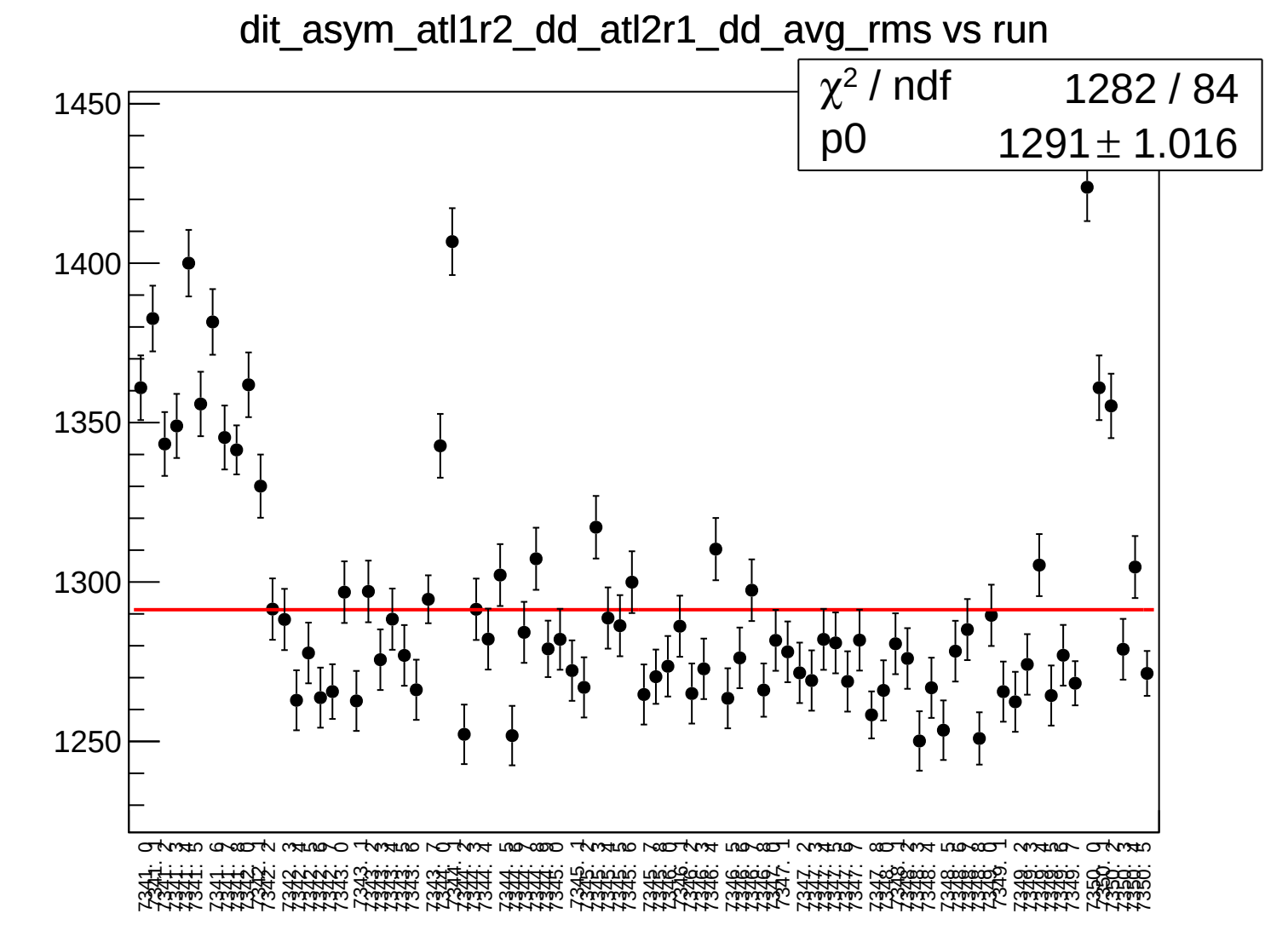

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 63.29 / 84
p0 −54.45 ± 246.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −250.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

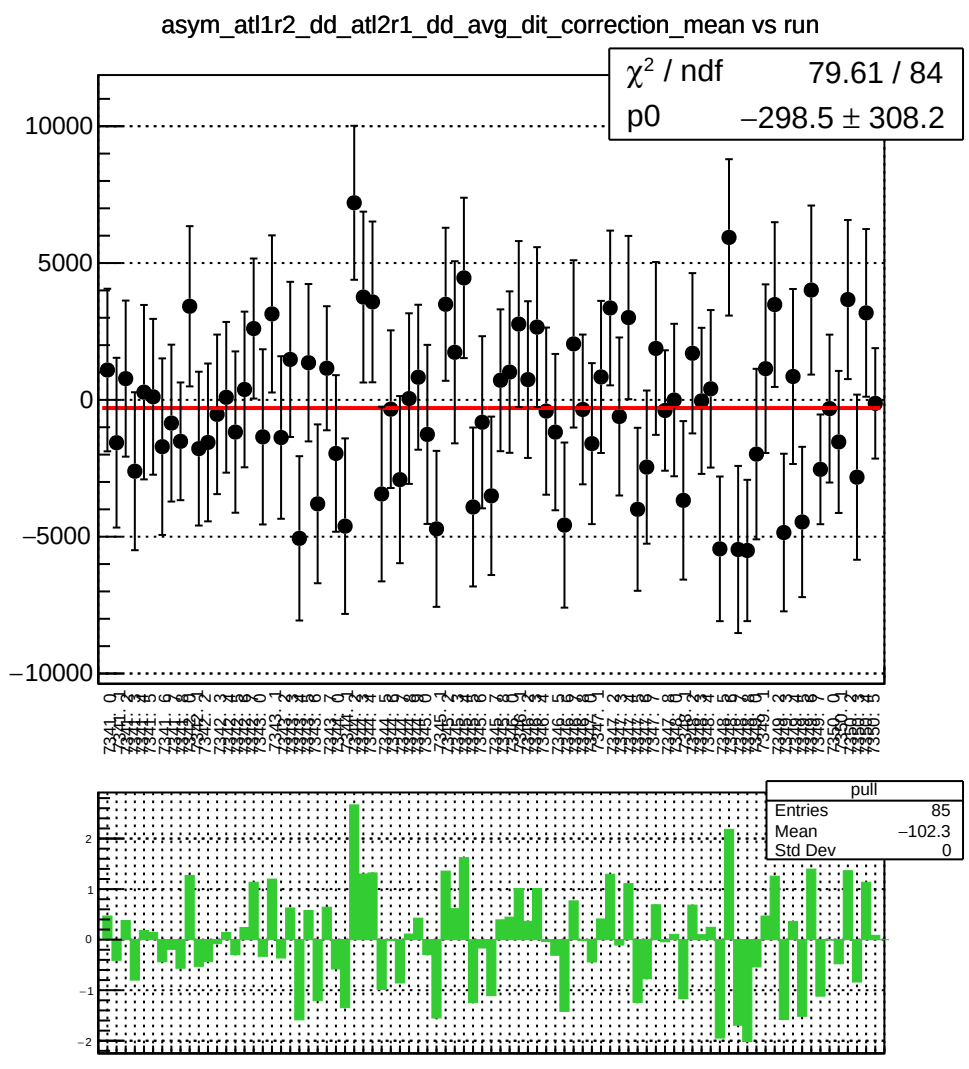

pull1D
Entries 85
Mean −0.01294
Std Dev 0.8628
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

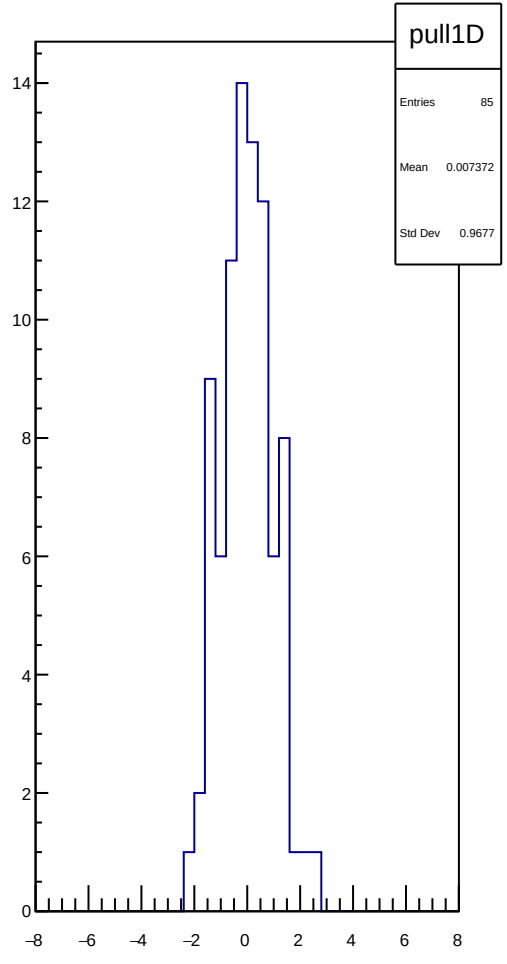

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.727e+04 / 84
p0 216.4 ± 0.1744
500
450
400
350
300
250
200
150

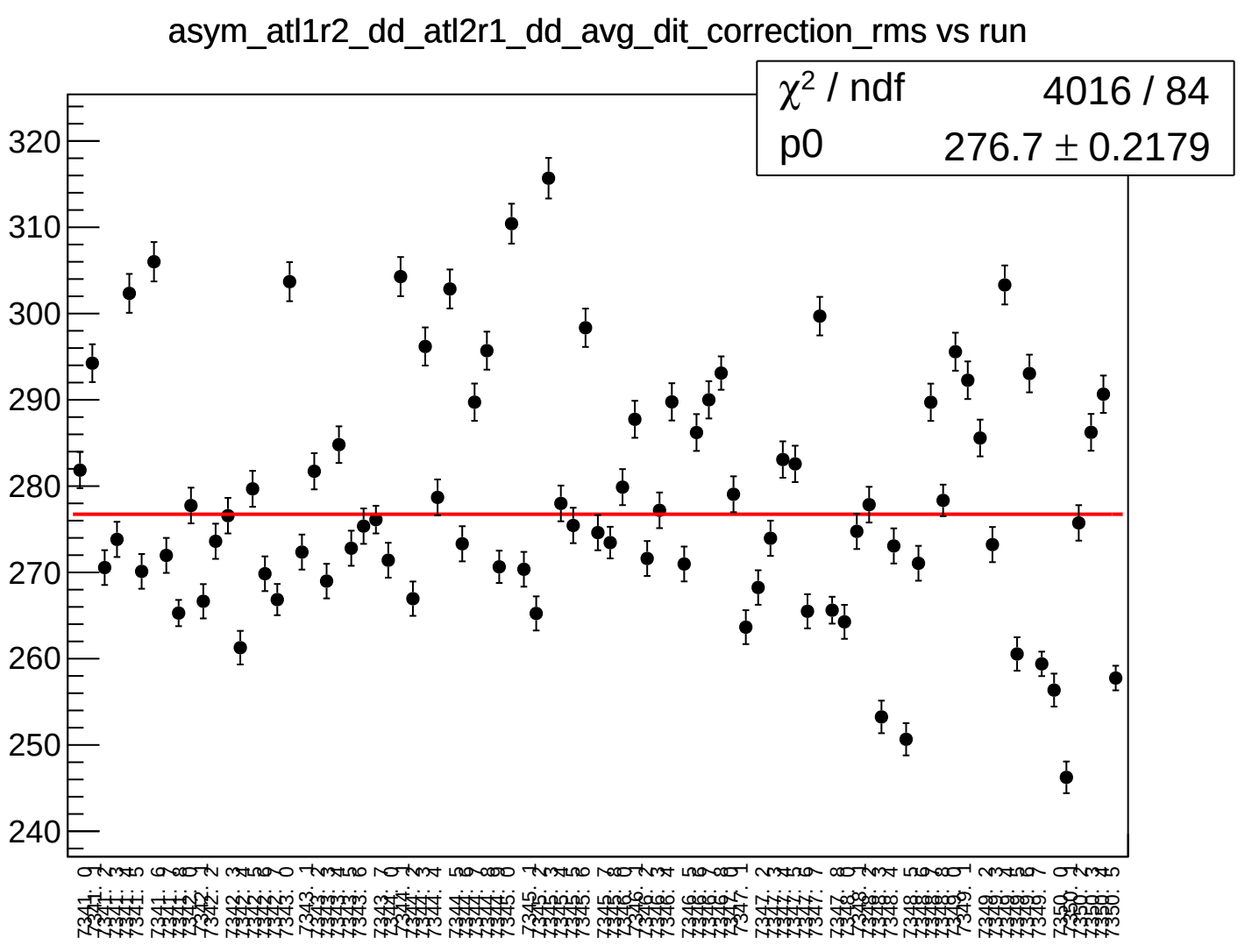

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 77.99 / 84
p0 −2118 ± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 598.4
Std Dev 0
2
1
0
−1
−2

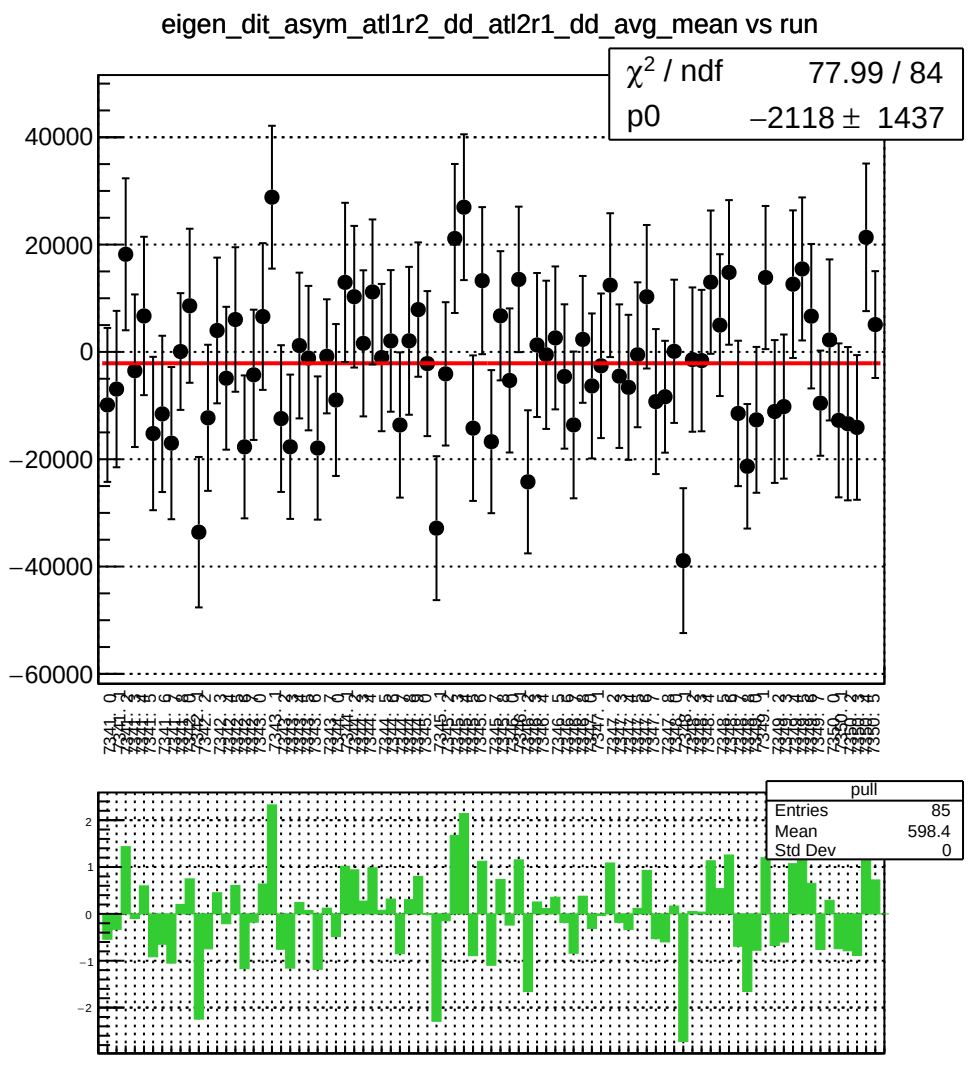

pull1D
Entries 85
Mean 0.00191
Std Dev 0.9579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

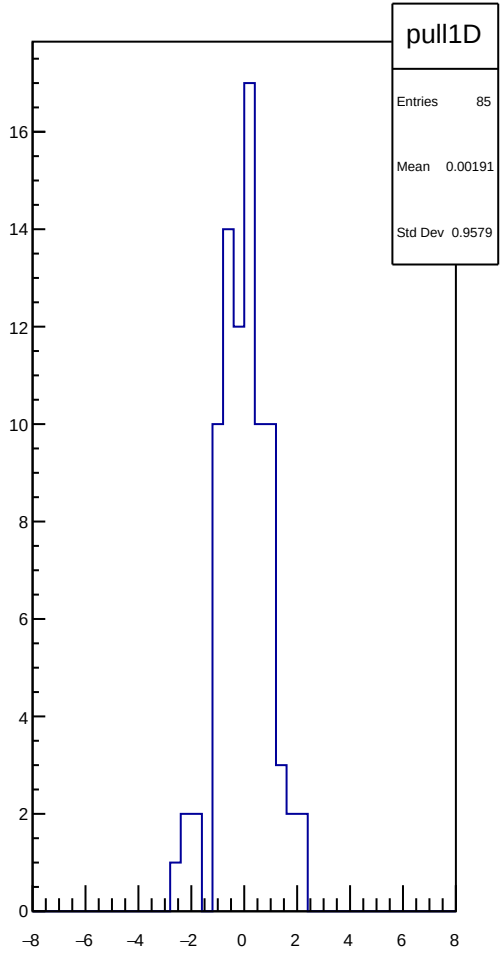

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1282 / 84
p0 1291 ± 1.016
1450
1400
1350
1300
1250

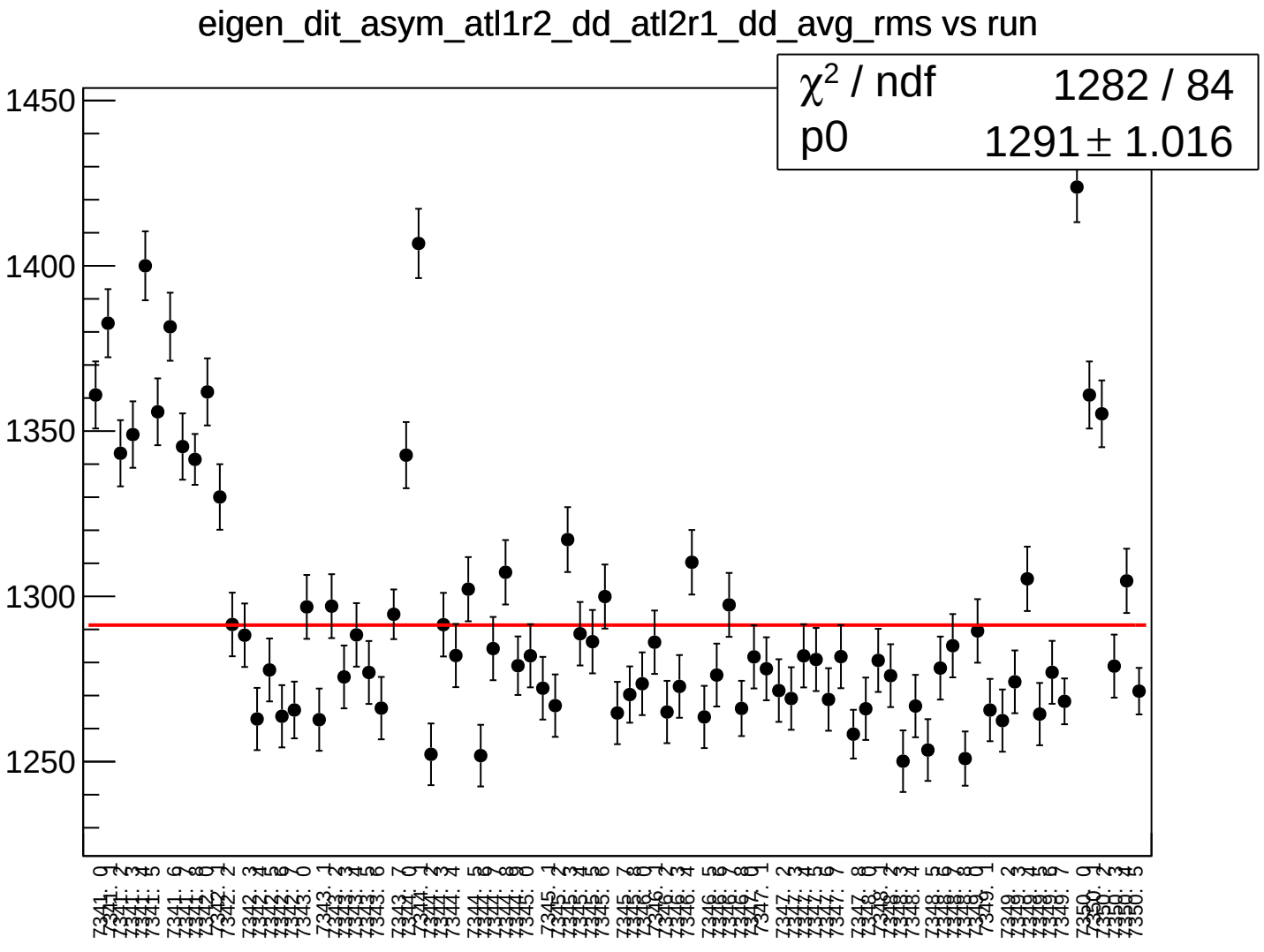

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 79.61 / 84
p0 −298.5 ± 308.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −102.3
Std Dev 0
2
1
0
−1
−2

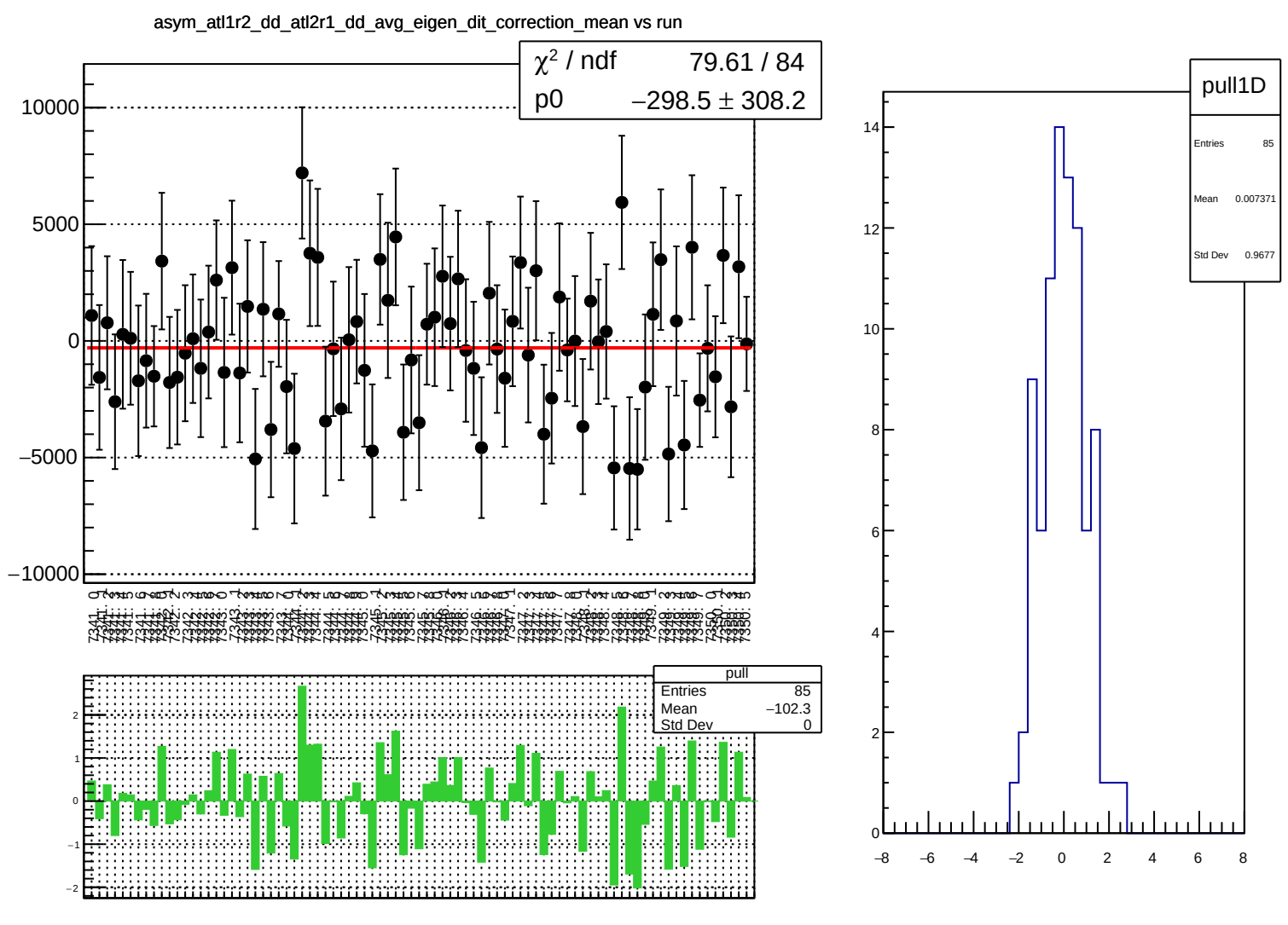

pull1D
Entries 85
Mean 0.007372
Std Dev 0.9677
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

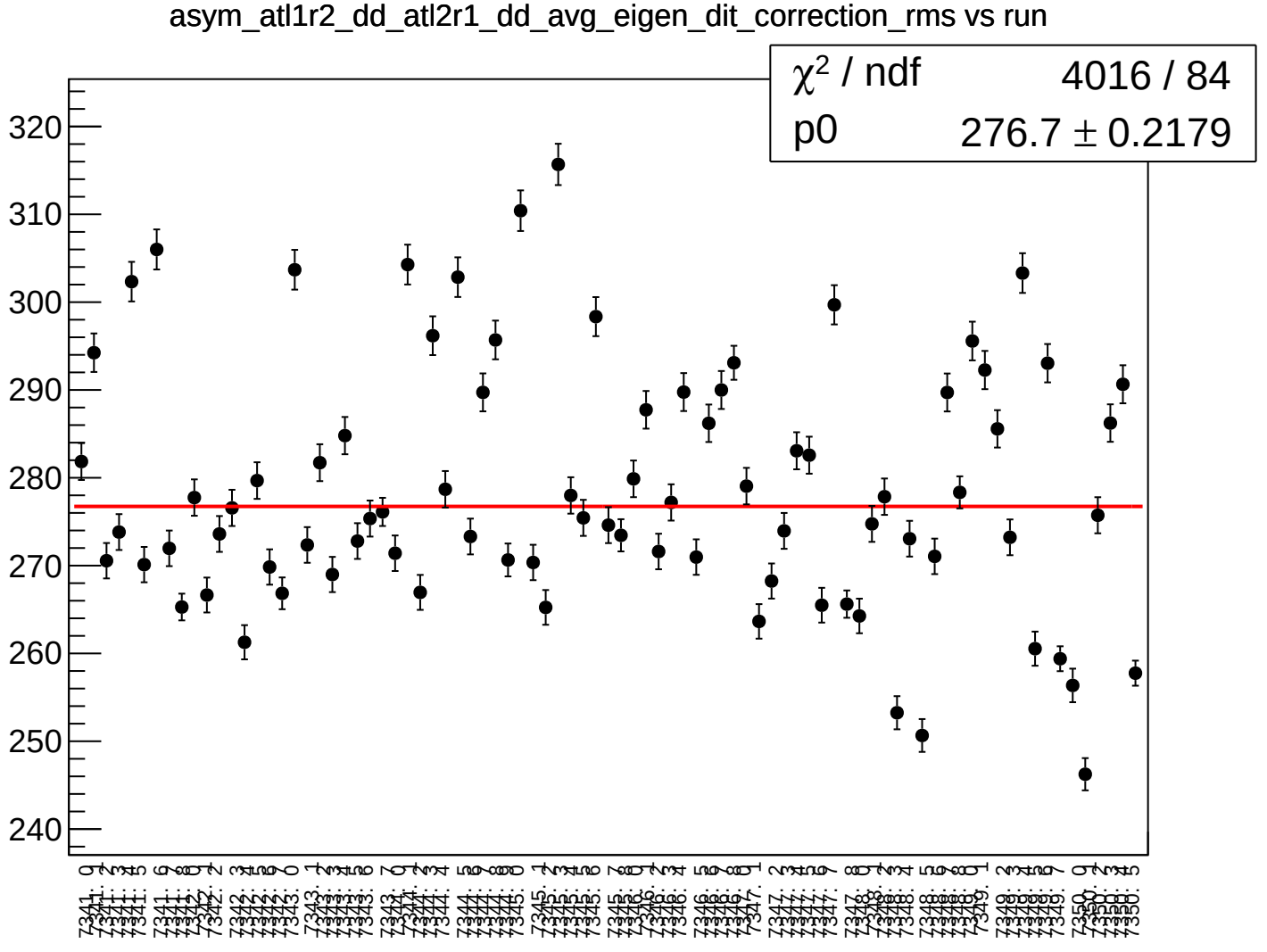

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 4016 / 84
p0 276.7 ± 0.2179
320
310
300
290
280
270
260
250
240

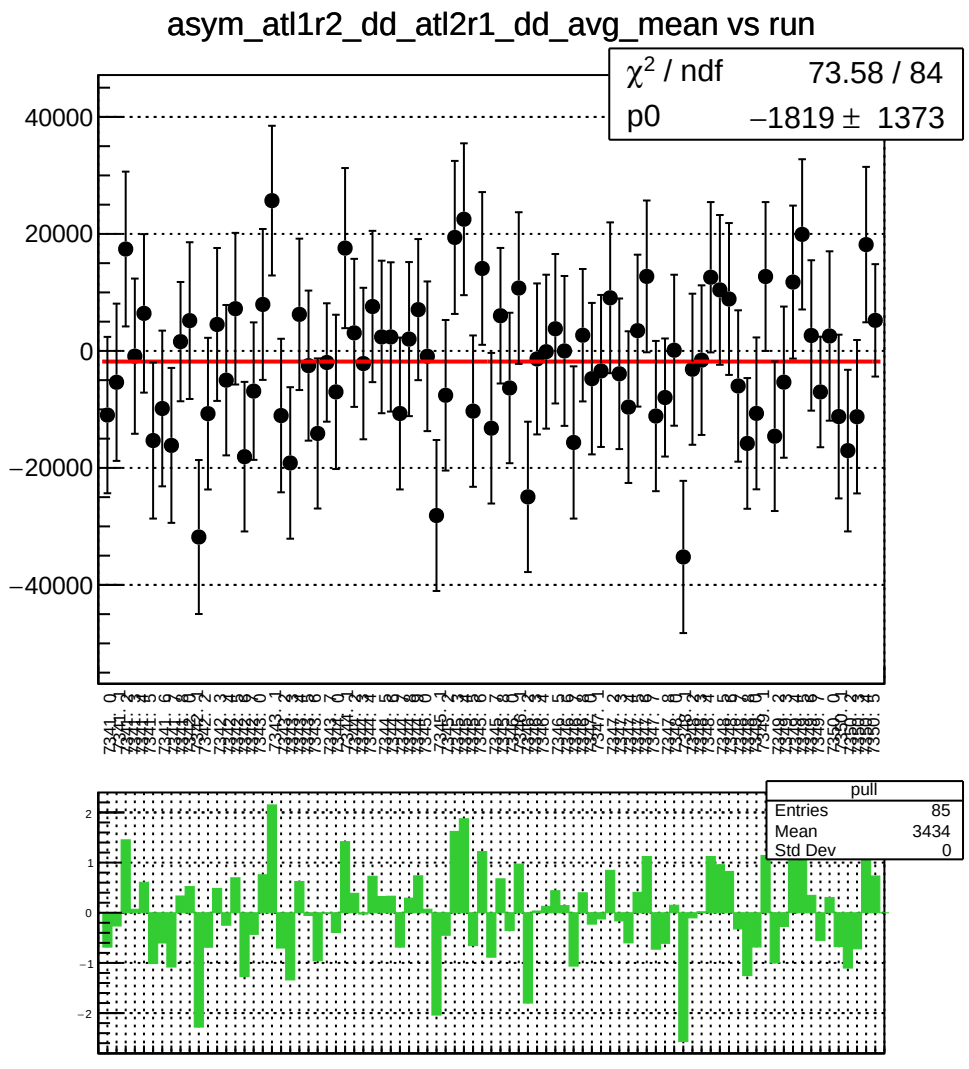

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 77.99 / 84
p0 −2118 ± 1437
pull
Entries 85
Mean 598.4
Std Dev 0

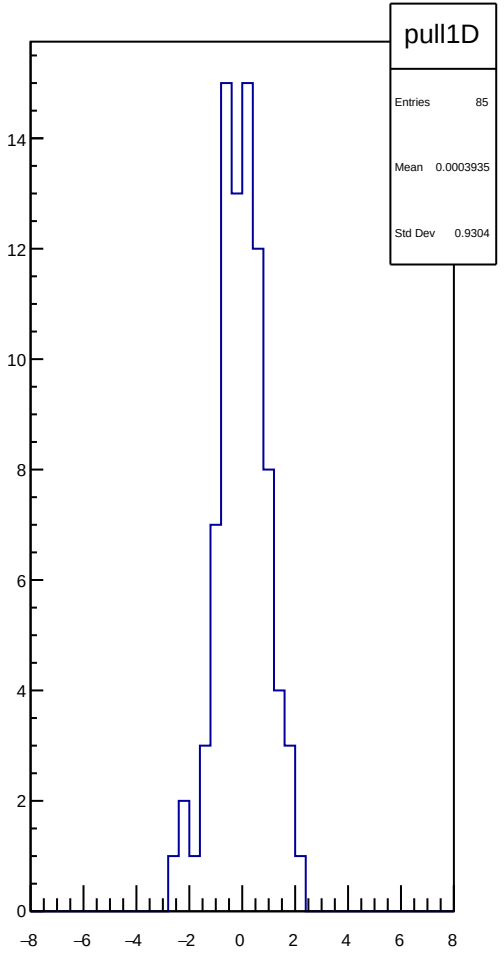

pull1D
Entries 85
Mean 0.00191
Std Dev 0.9579

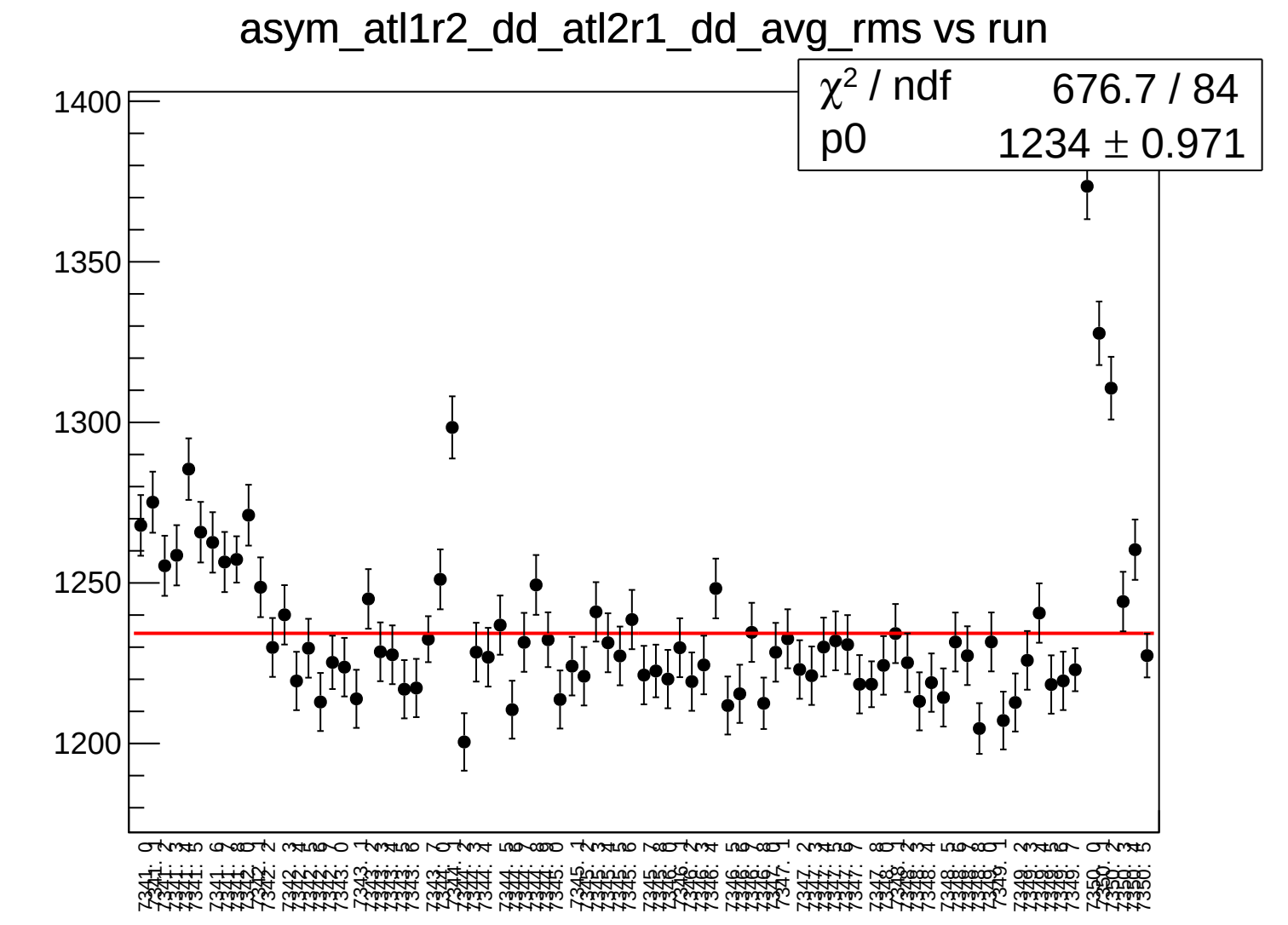

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1282 / 84
p0 1291 ± 1.016
1450
1400
1350
1300
1250

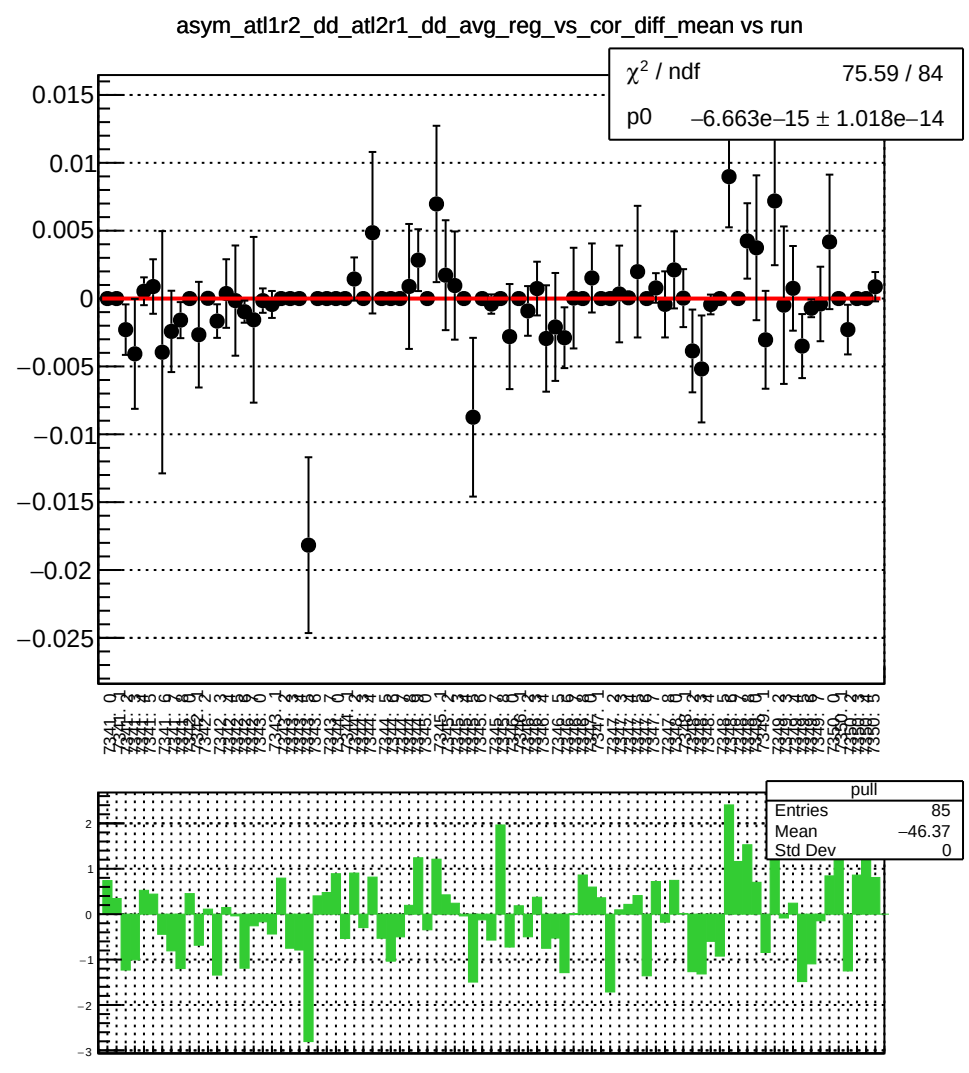

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.61 / 84
p0 −298.5 ± 308.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −102.3
Std Dev 0
pull1D
Entries 85
Mean 0.007371
Std Dev 0.9677

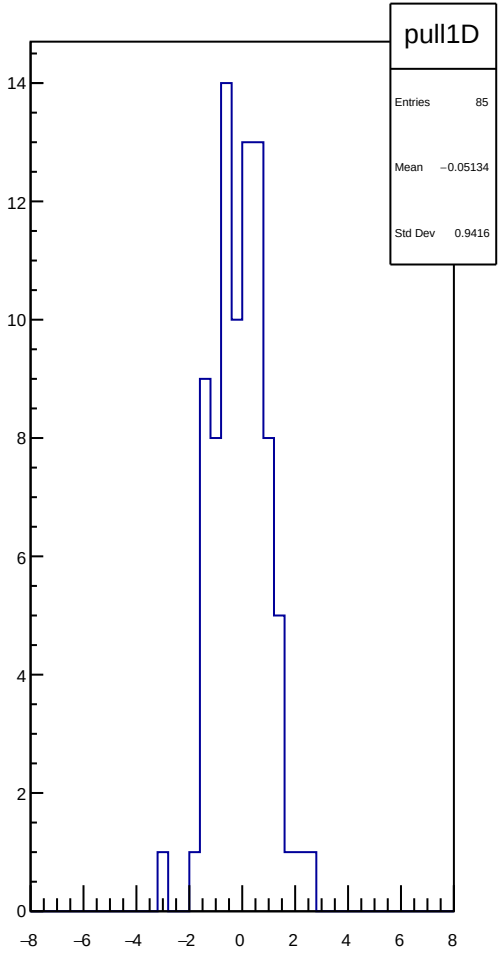

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4016 / 84
p0 276.7 ± 0.2179
320
310
300
290
280
270
260
250
240

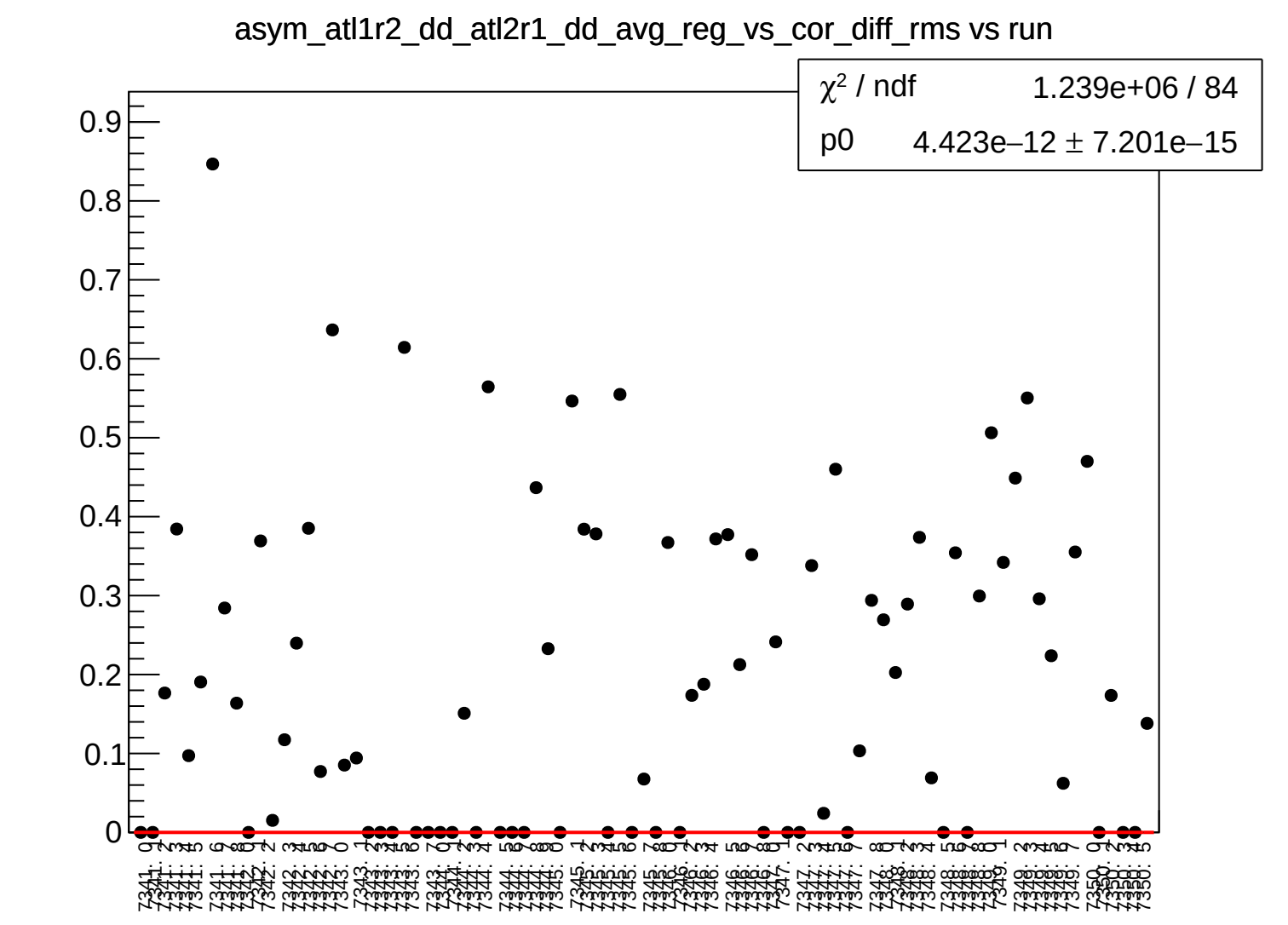

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 73.58 / 84
p0 −1819 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 3434
Std Dev 0

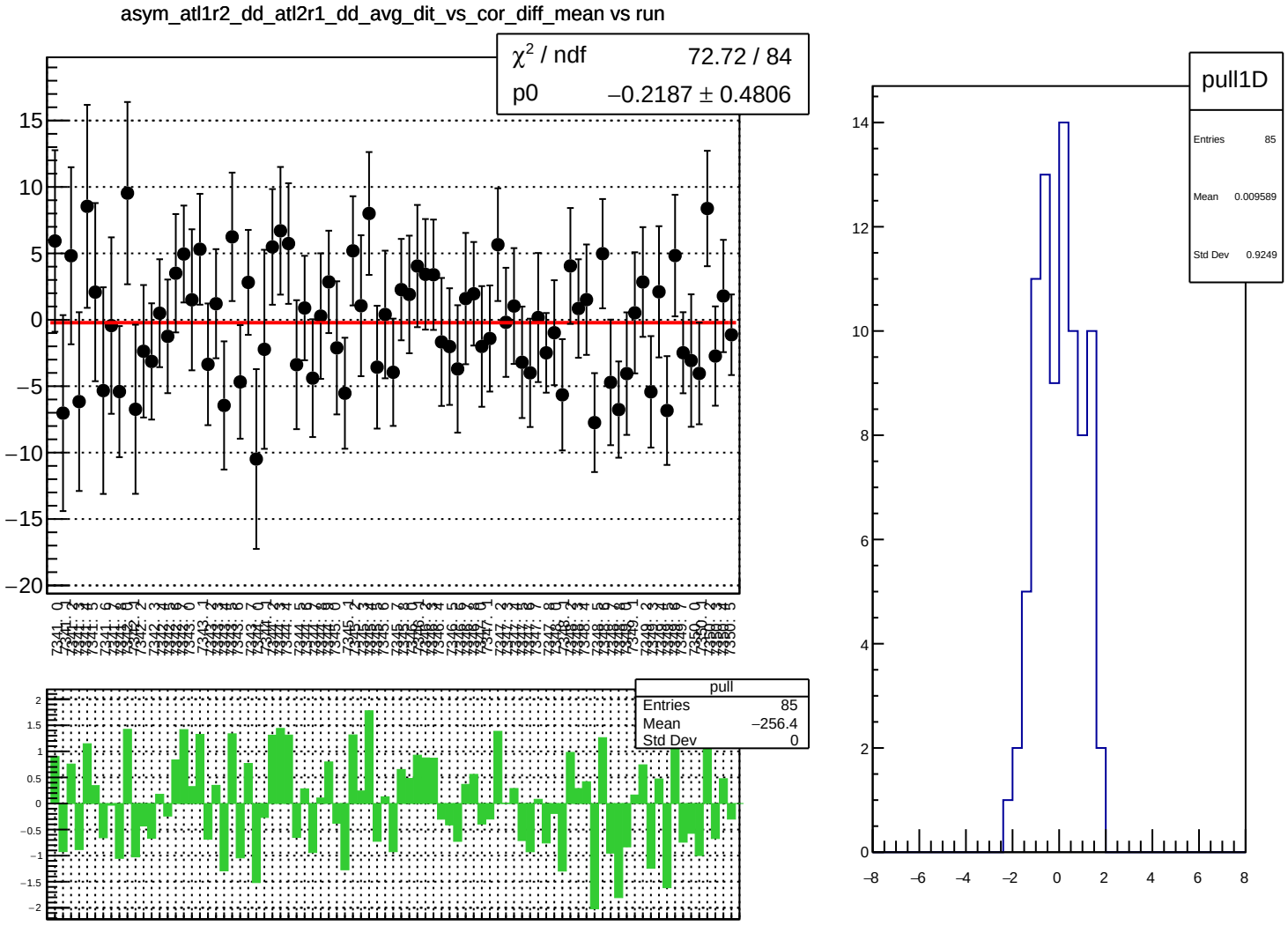

pull1D
Entries 85
Mean 0.0003935
Std Dev 0.9304
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

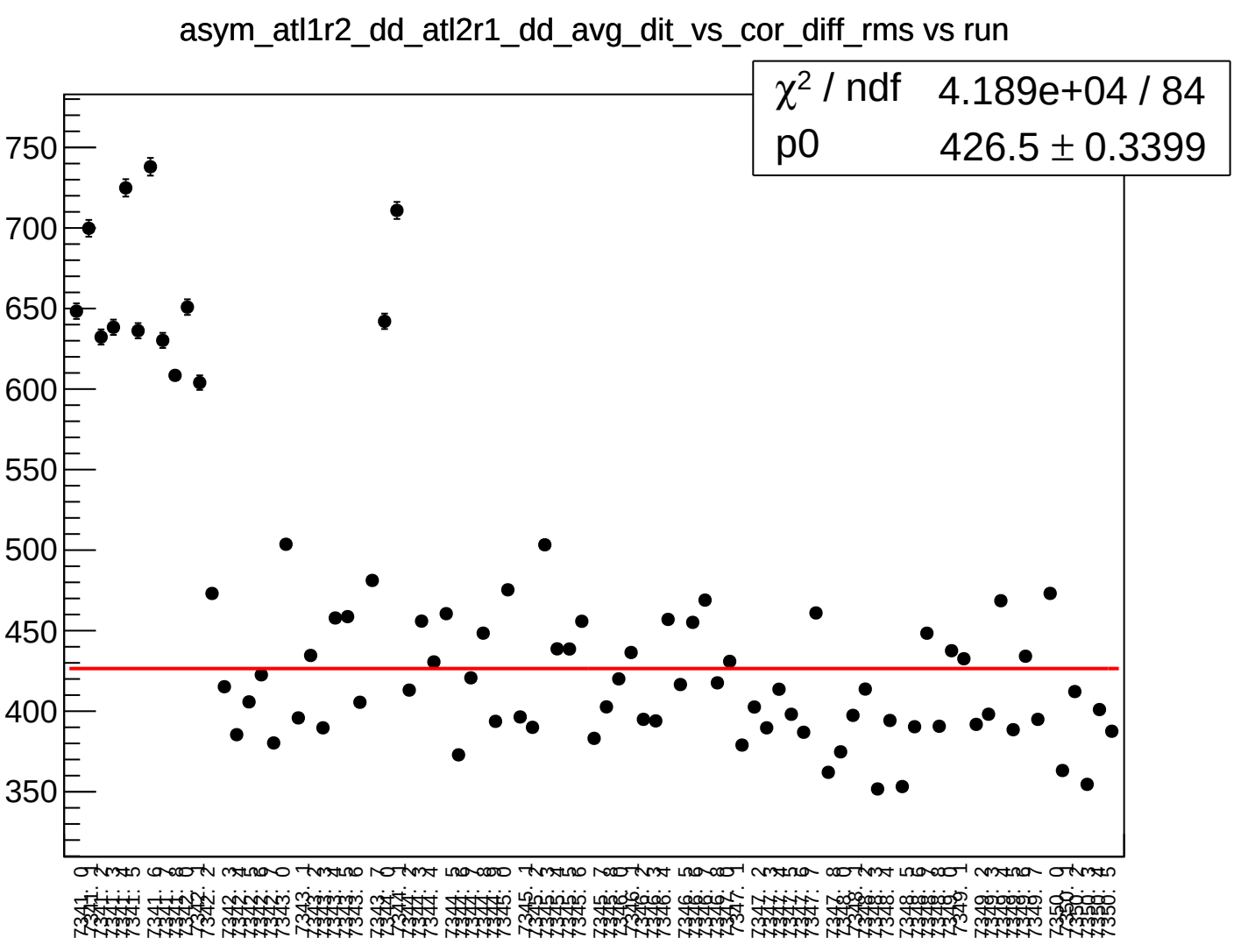

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 676.7 / 84
p0 1234 ± 0.971
1400
1350
1300
1250
1200

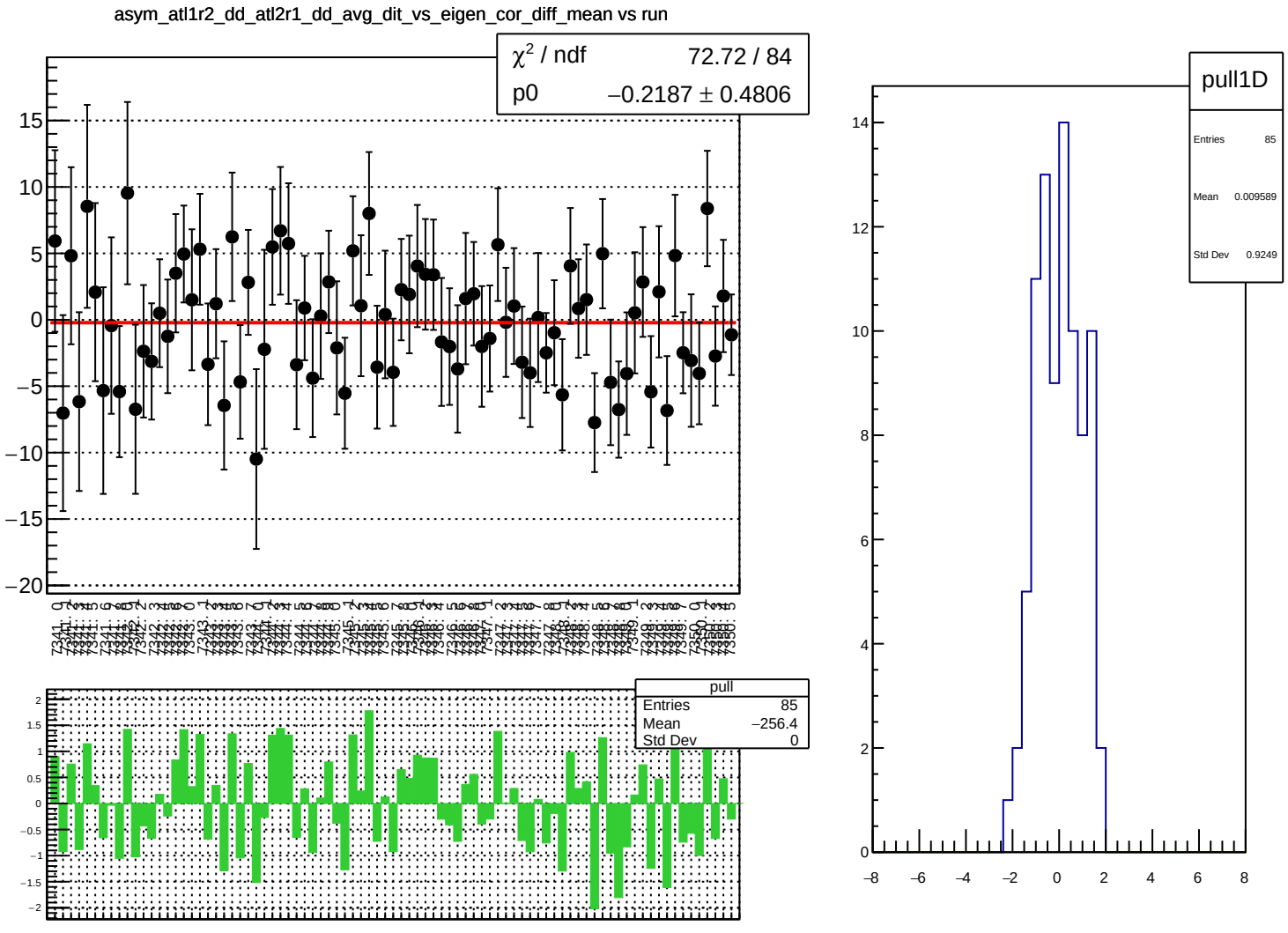

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.59 / 84
p0 −6.663e−15 ± 1.018e−14
pull
Entries 85
Mean −46.37
Std Dev 0

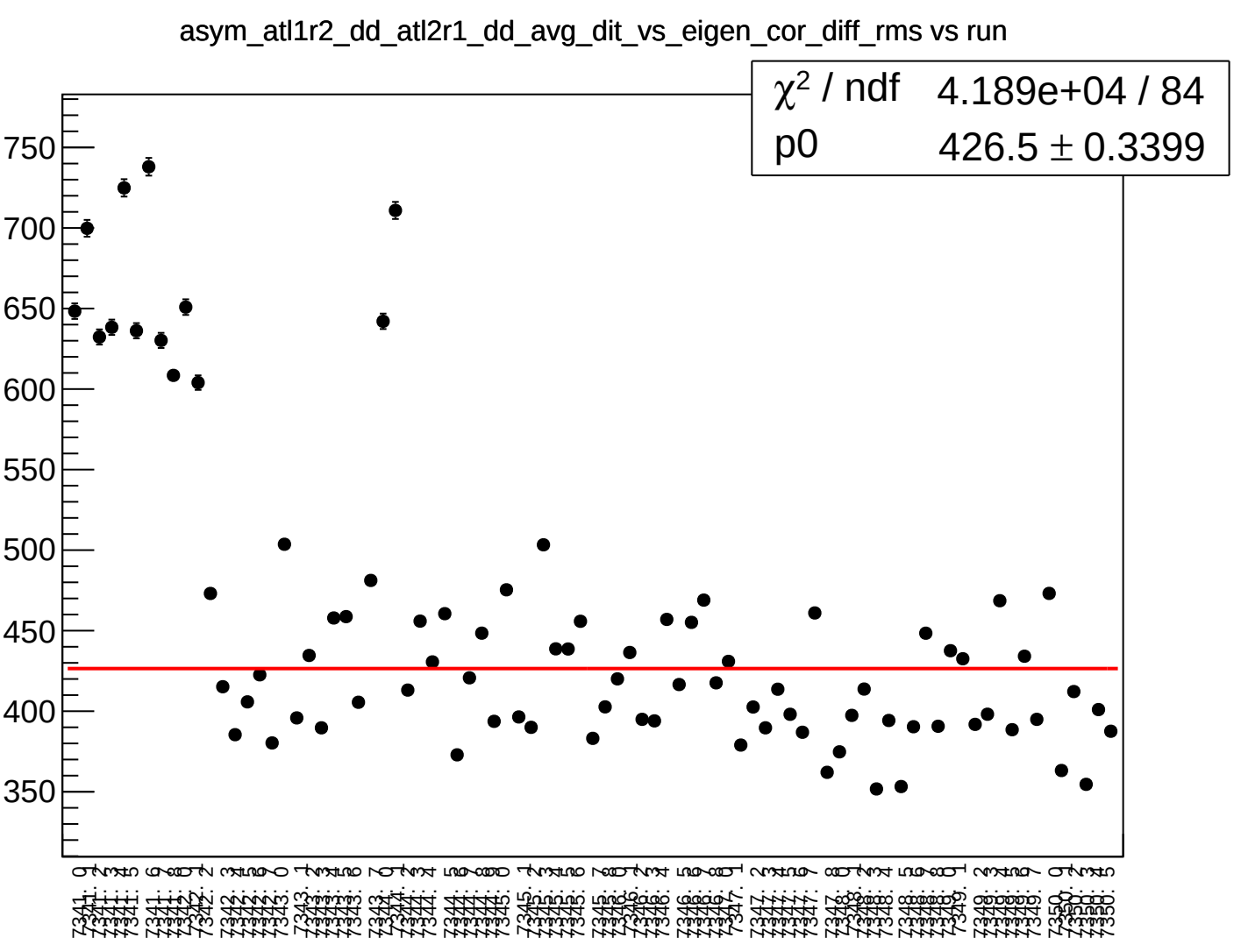

pull1D
Entries 85
Mean −0.05134
Std Dev 0.9416

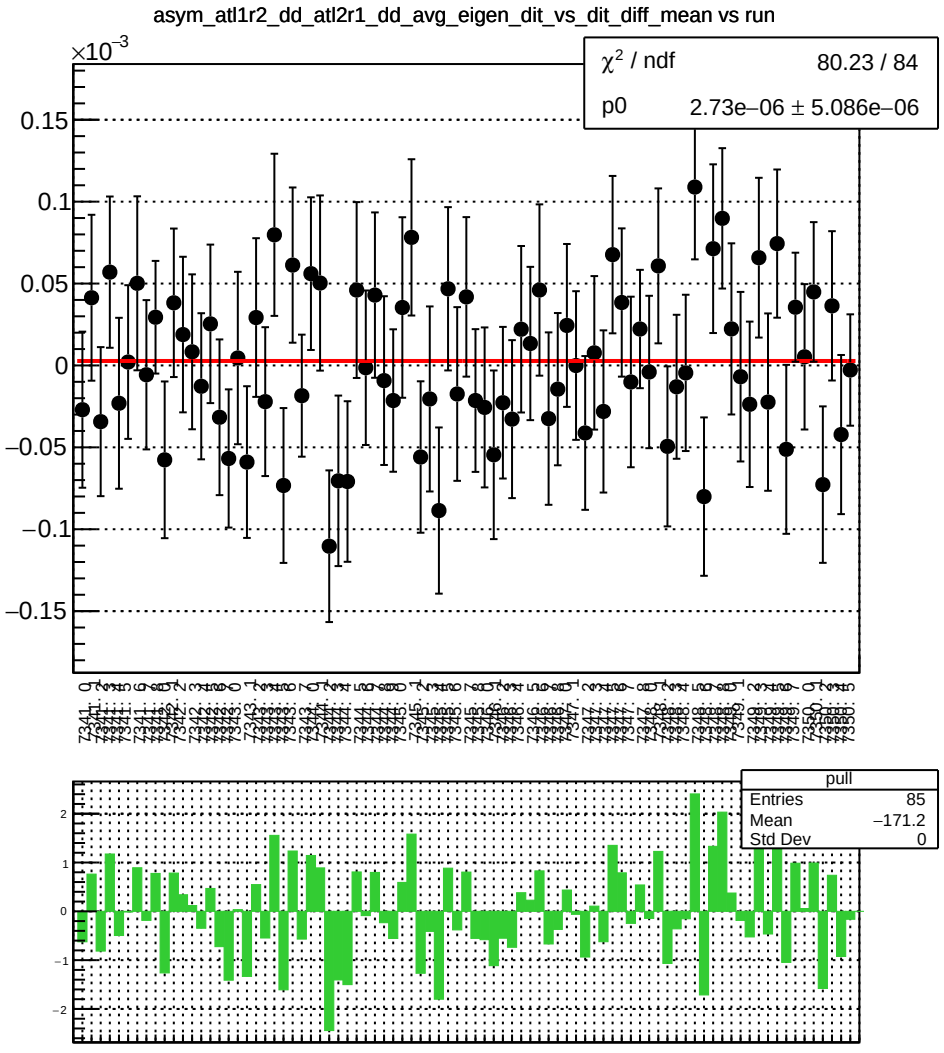

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.239e+06 / 84
p0 4.423e−12 ± 7.201e−15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

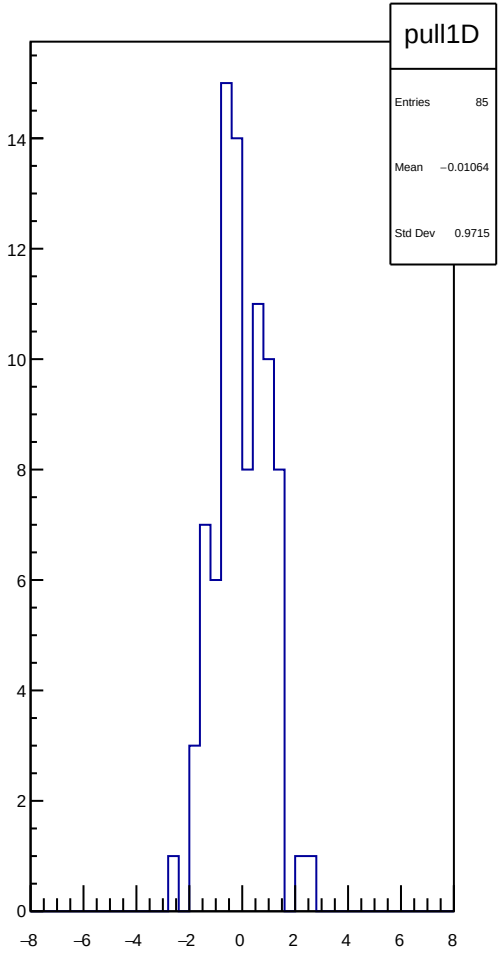

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.72 / 84
p0 −0.2187 ± 0.4806
pull
Entries 85
Mean −256.4
Std Dev 0
pull1D
Entries 85
Mean 0.009589
Std Dev 0.9249

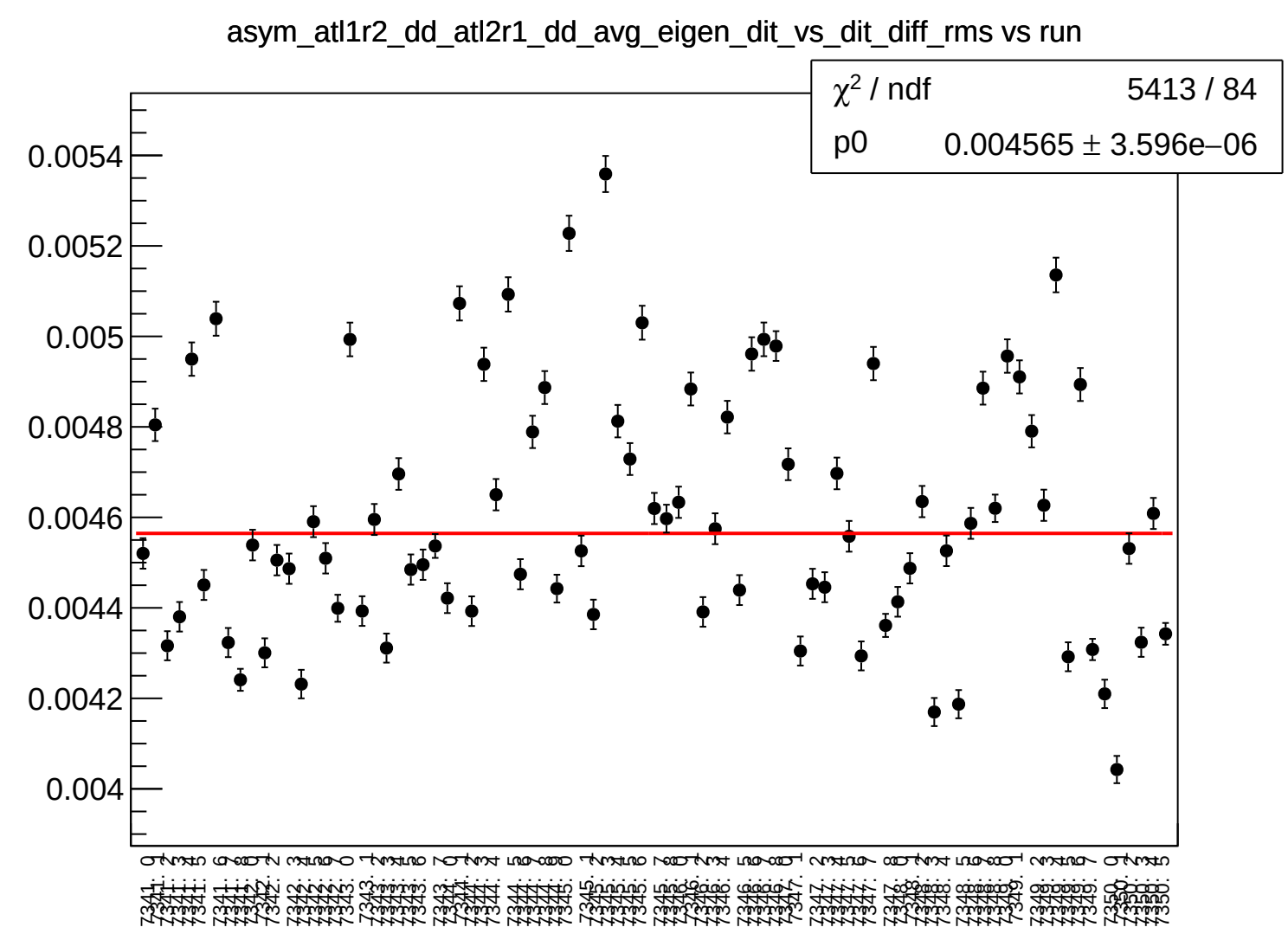

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 84
p0 426.5 ± 0.3399
750
700
650
600
550
500
450
400
350

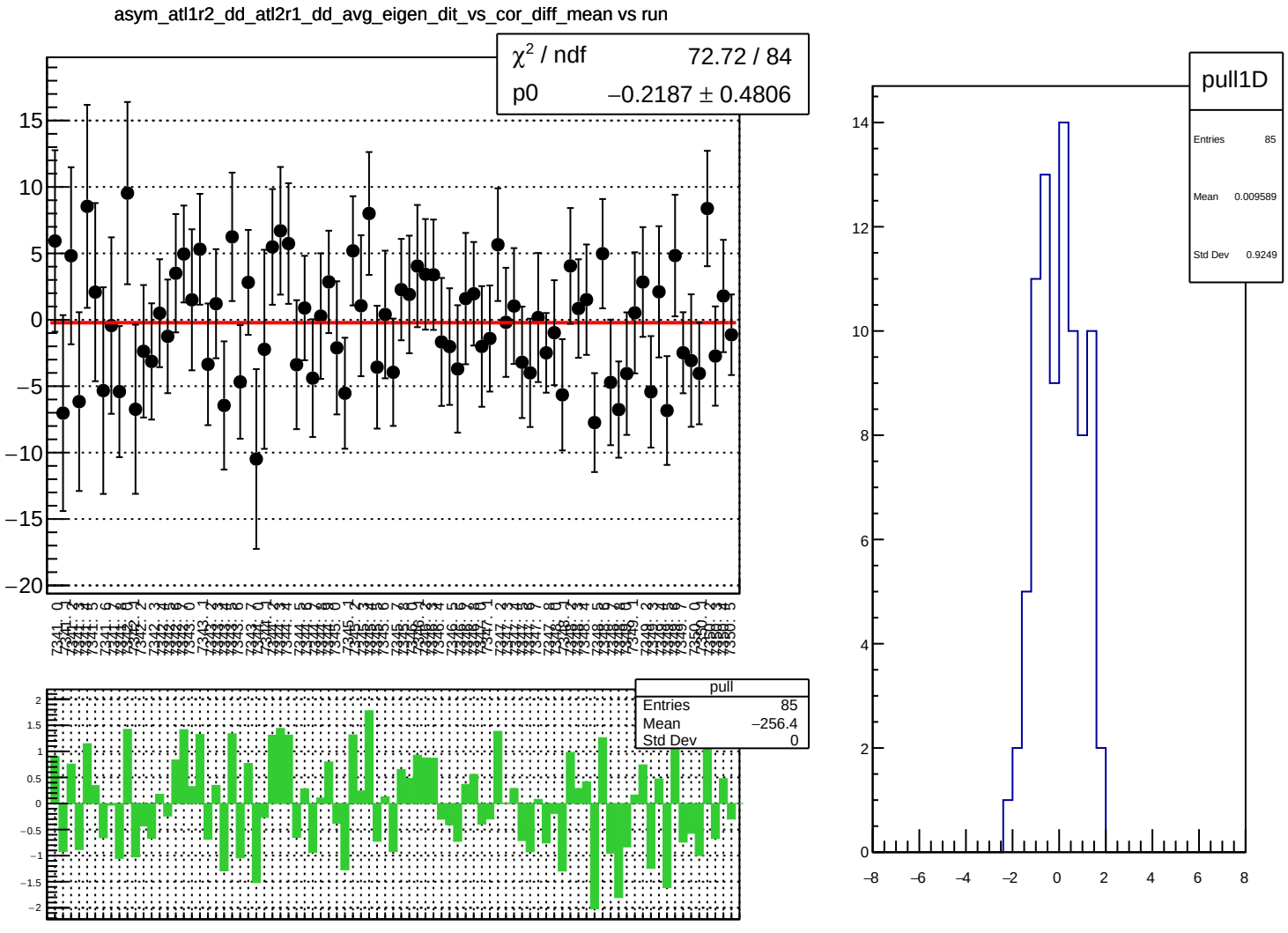

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.72 / 84
p0 −0.2187 ± 0.4806
pull
Entries 85
Mean −256.4
Std Dev 0
pull1D
Entries 85
Mean 0.009589
Std Dev 0.9249

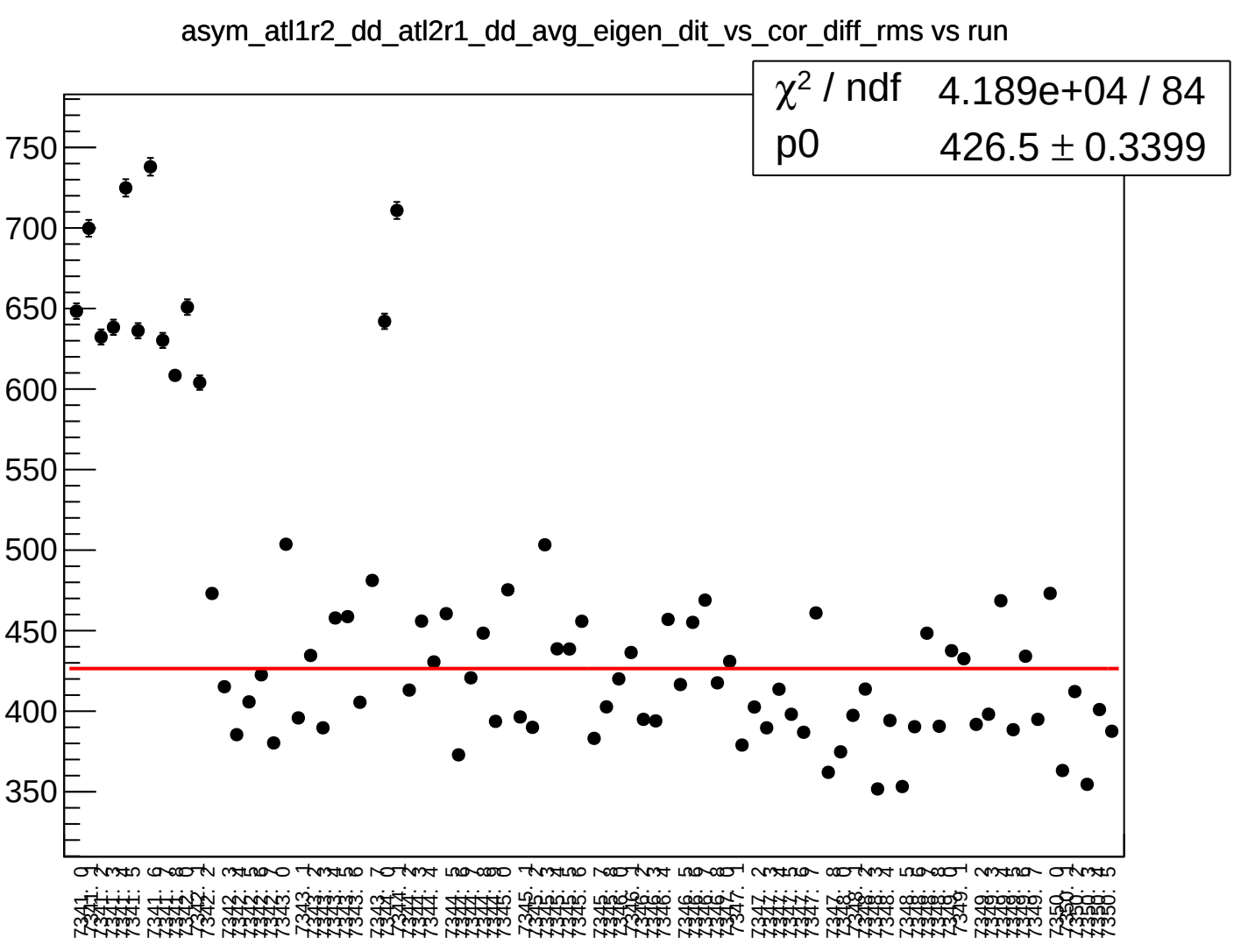

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 84
p0 426.5 ± 0.3399
750
700
650
600
550
500
450
400
350

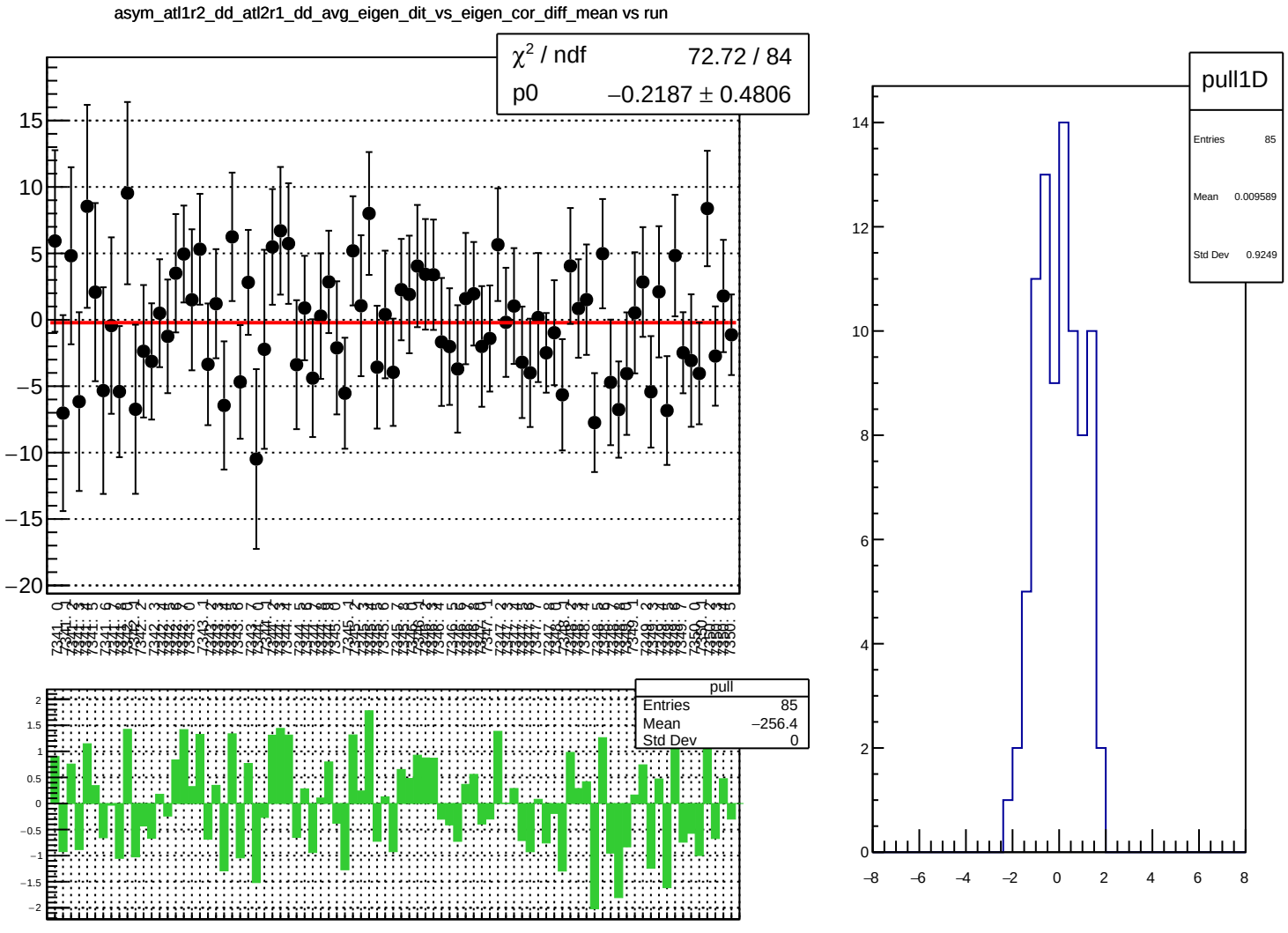

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.23 / 84
p0 2.73e−06 ± 5.086e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean −171.2
Std Dev 0
2
1
0
−1
−2

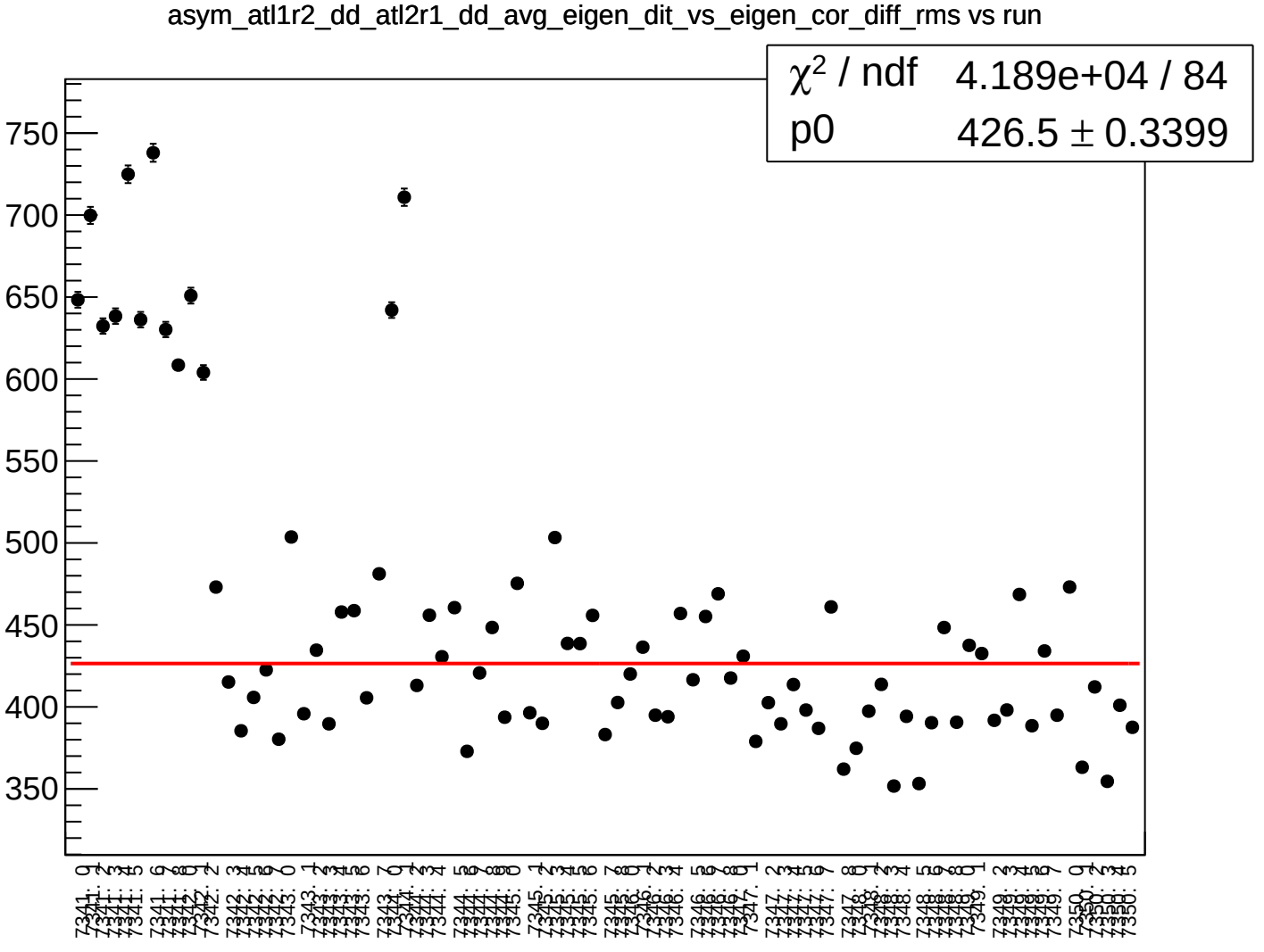

pull1D
Entries 85
Mean −0.01064
Std Dev 0.9715
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

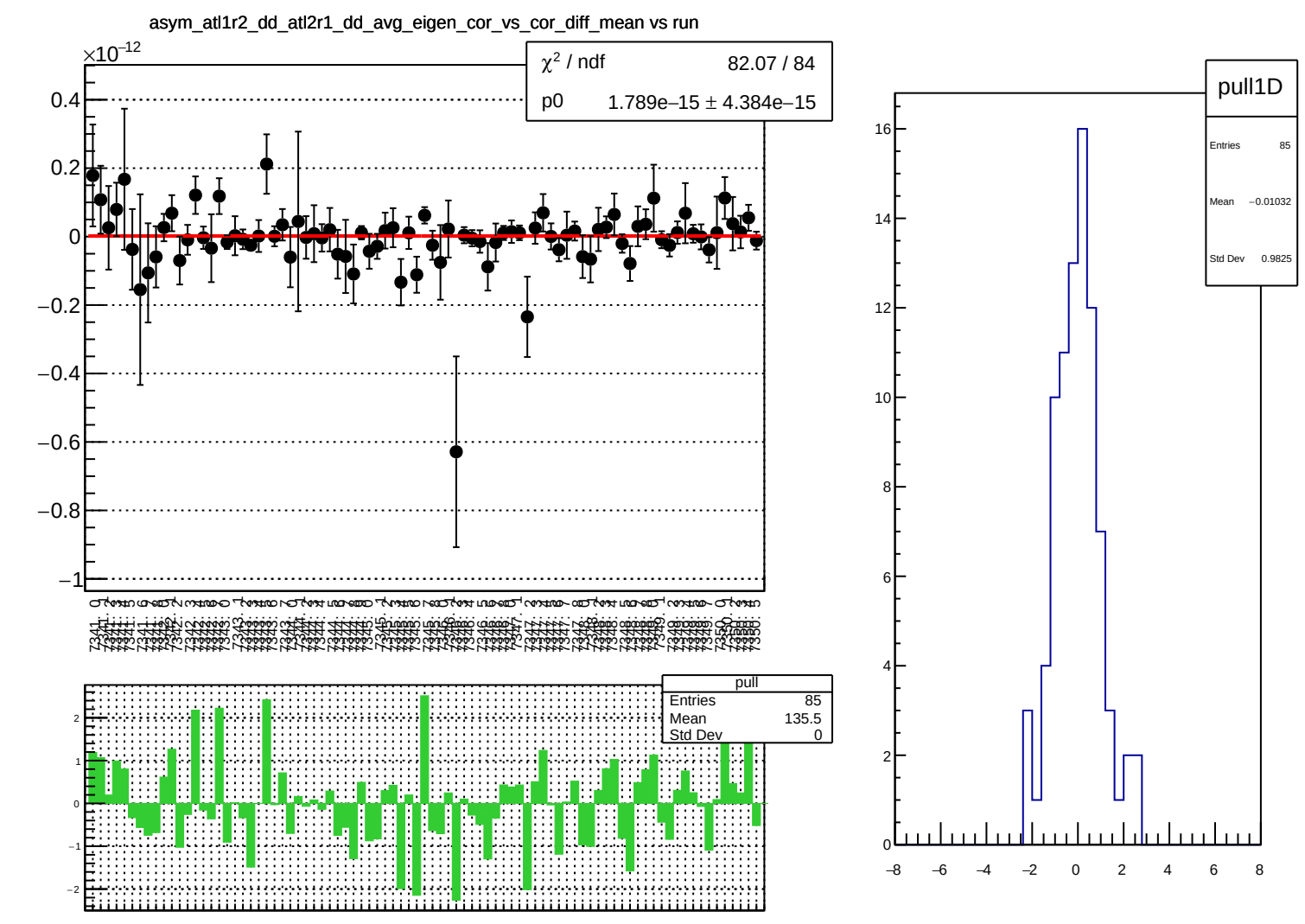

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5413 / 84
p0 0.004565 ± 3.596e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

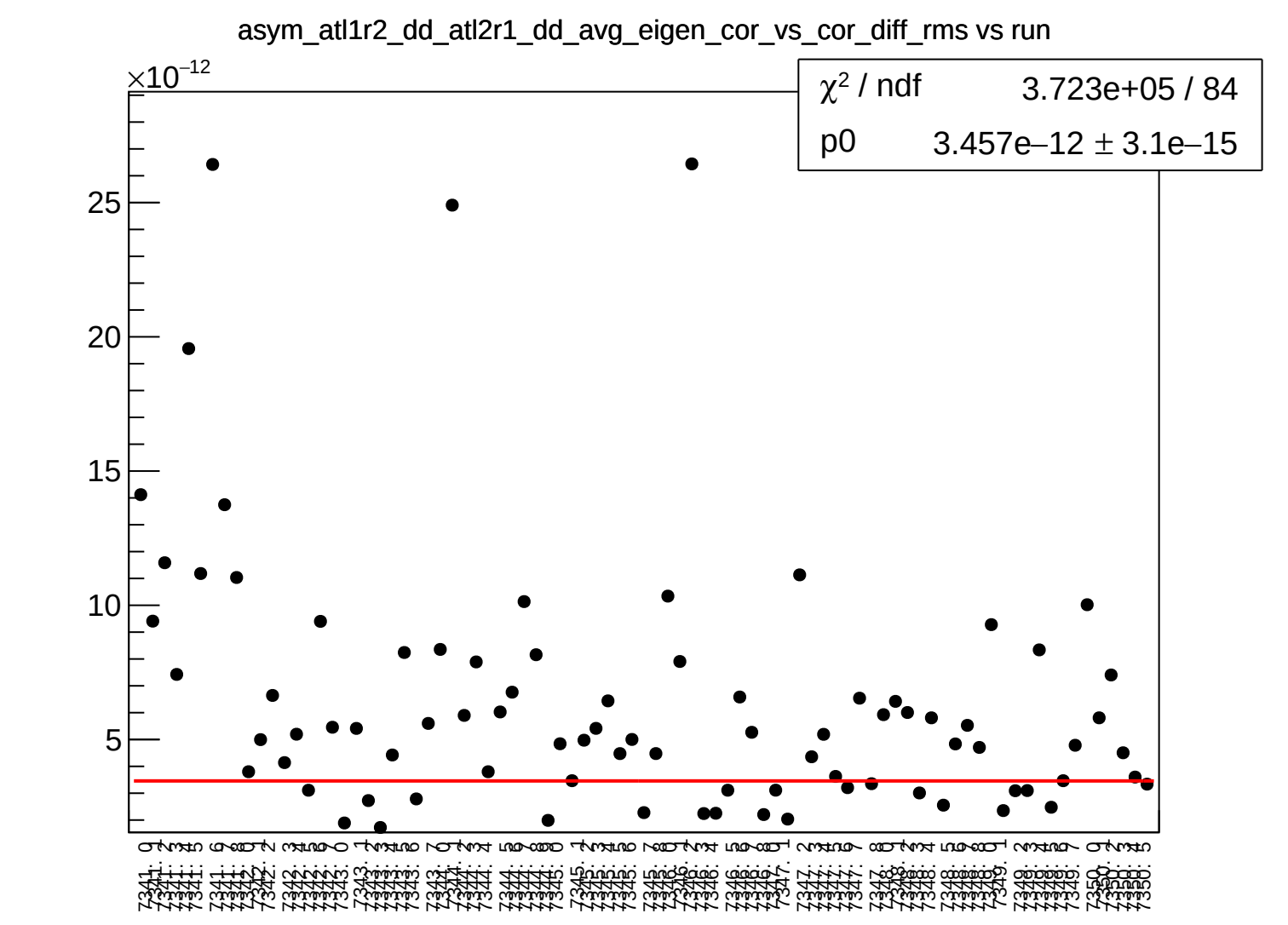

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.72 / 84
p0 −0.2187 ± 0.4806
pull
Entries 85
Mean −256.4
Std Dev 0
pull1D
Entries 85
Mean 0.009589
Std Dev 0.9249

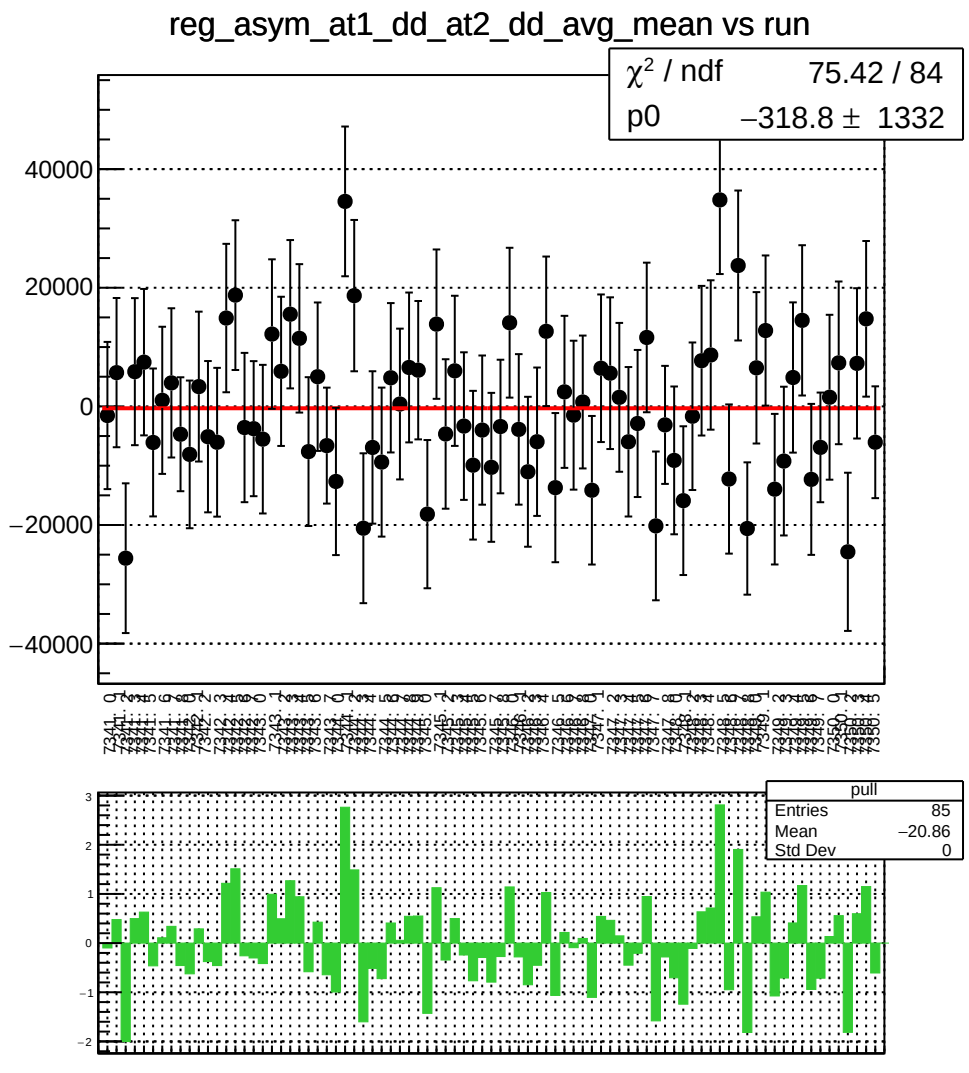

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 84
p0 426.5 ± 0.3399
750
700
650
600
550
500
450
400
350

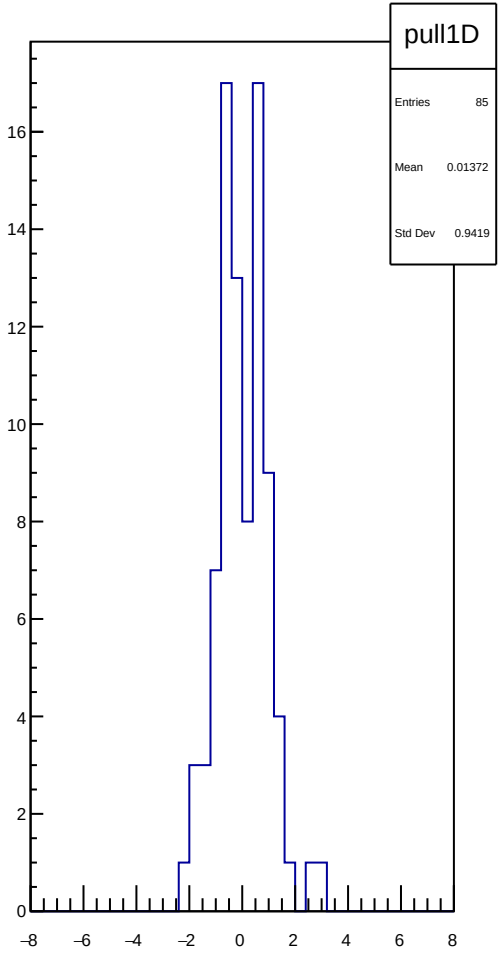

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.72 / 84
p0 −0.2187 ± 0.4806
pull
Entries 85
Mean −256.4
Std Dev 0
pull1D
Entries 85
Mean 0.009589
Std Dev 0.9249

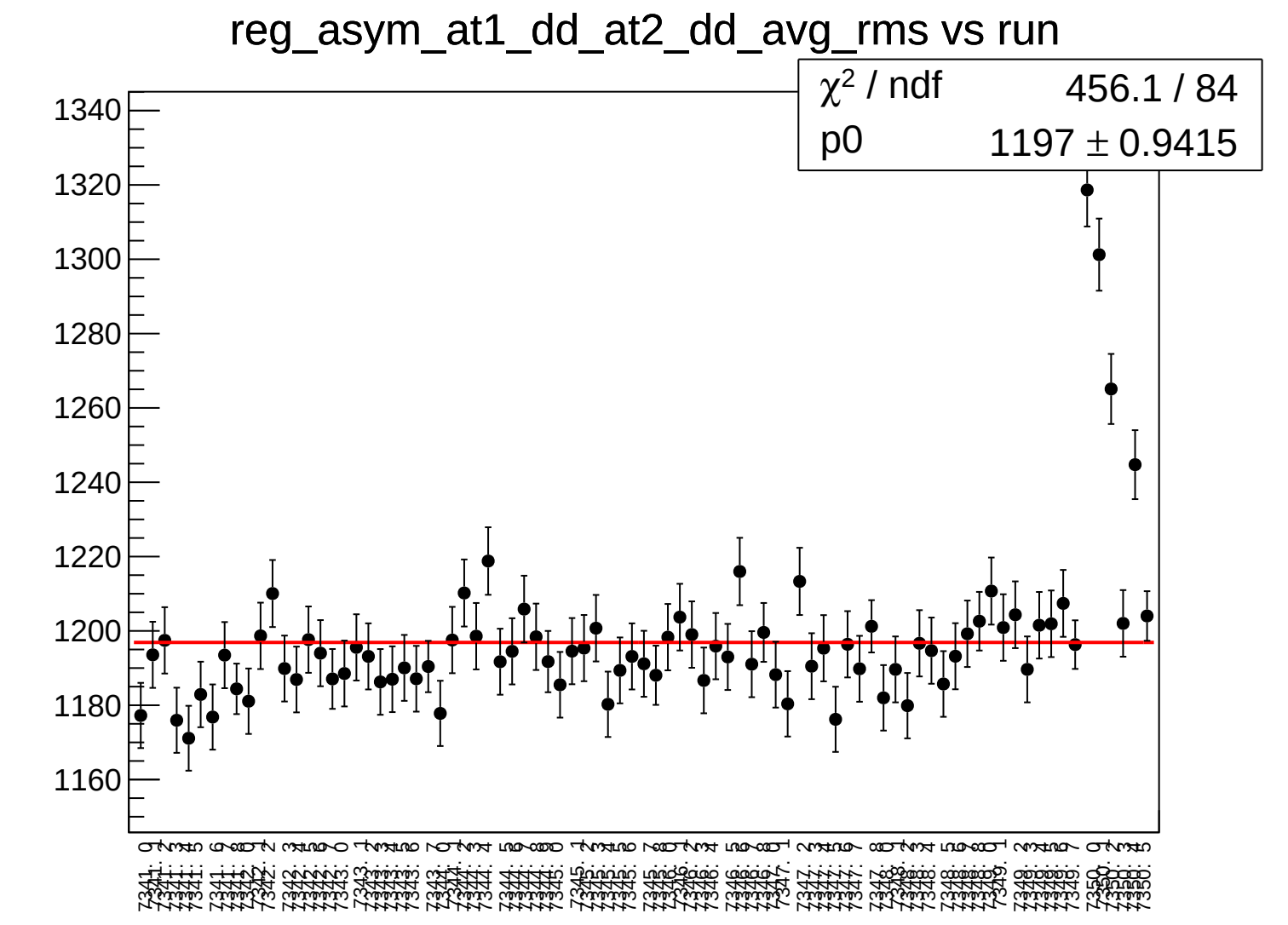

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.189e+04 / 84
p0 426.5 ± 0.3399
750
700
650
600
550
500
450
400
350

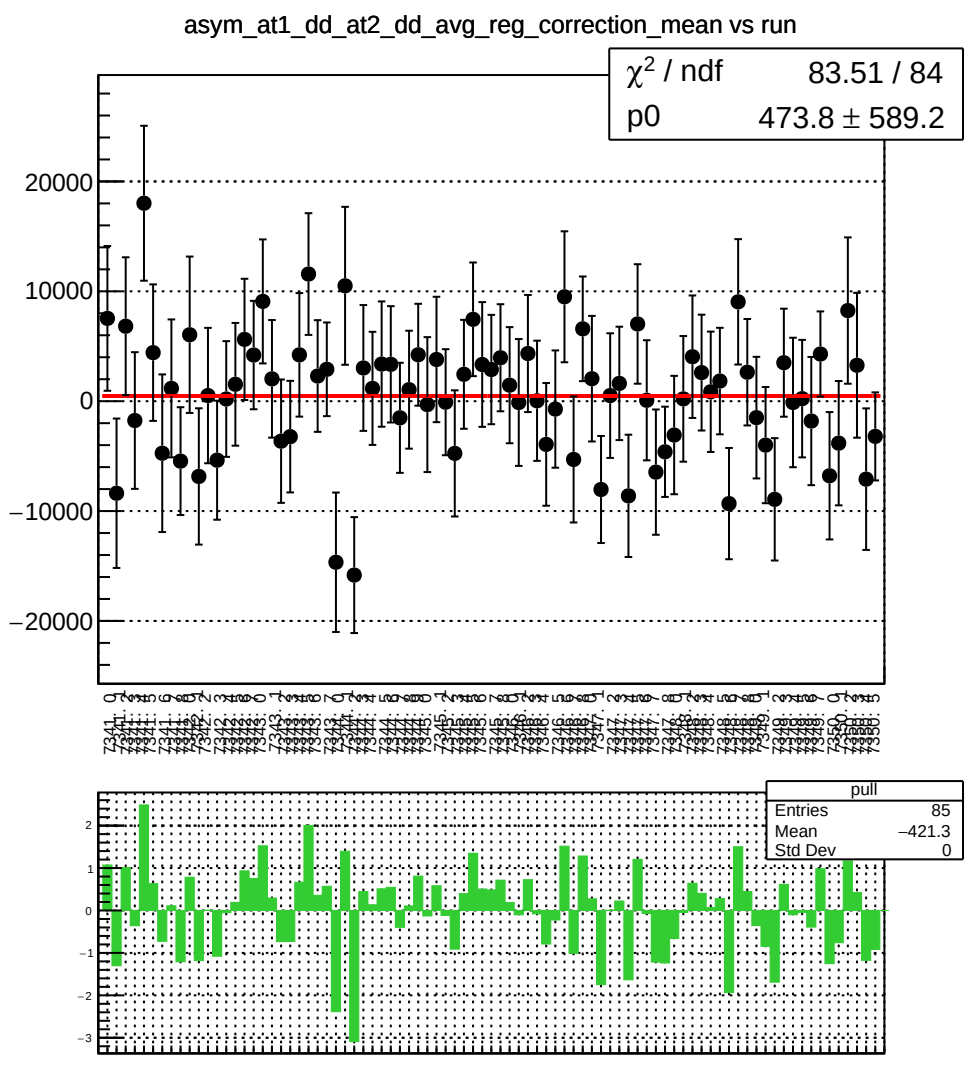

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.07 / 84
p0 1.789e−15 ± 4.384e−15
pull
Entries 85
Mean 135.5
Std Dev 0
pull1D
Entries 85
Mean −0.01032
Std Dev 0.9825

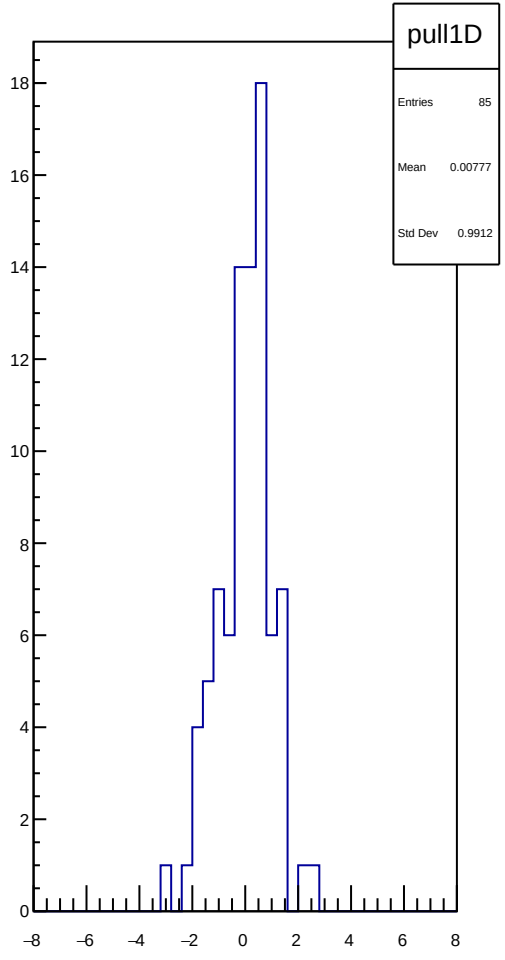

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.723e+05 / 84
p0 3.457e−12 ± 3.1e−15
25
20
15
10
5

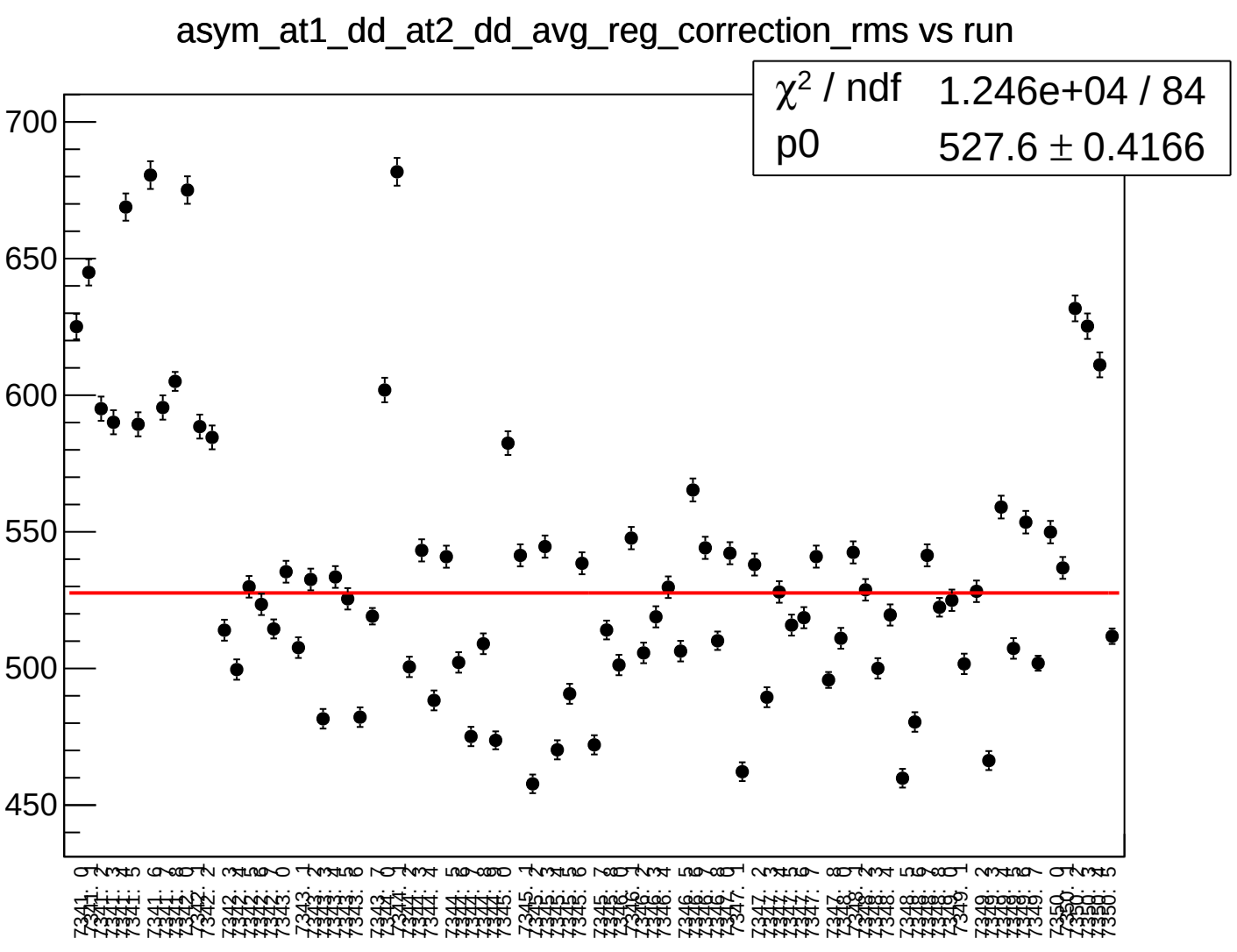

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 75.42 / 84
p0 −318.8 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −20.86
Std Dev 0
3
2
1
0
−1
−2

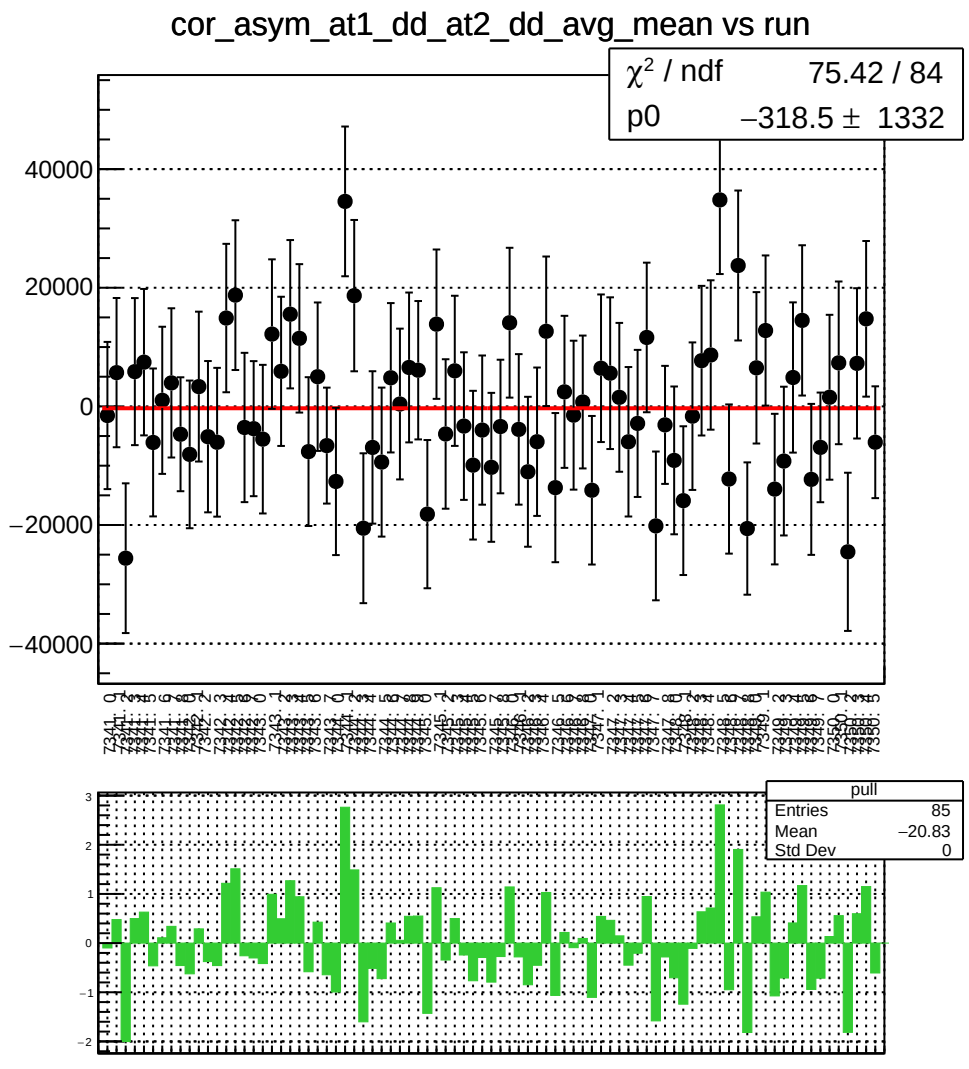

pull1D
Entries 85
Mean 0.01372
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

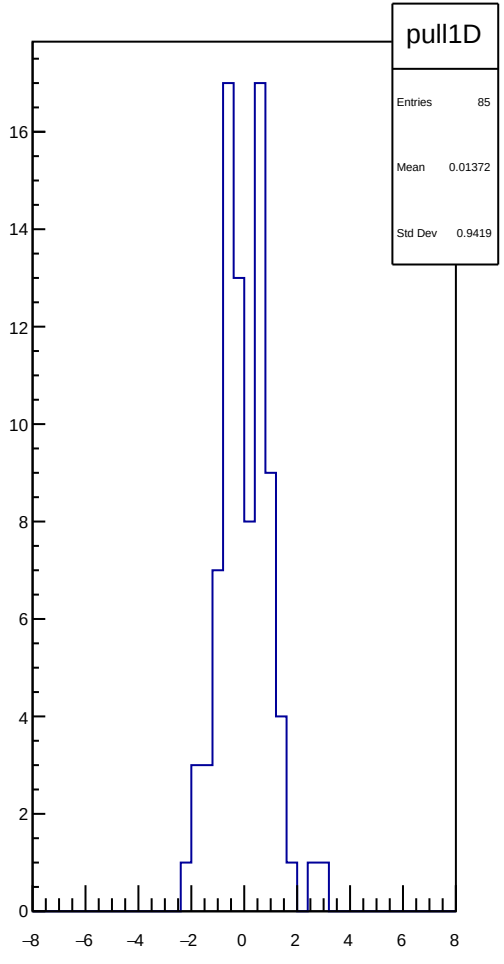

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 456.1 / 84
p0 1197 ± 0.9415
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

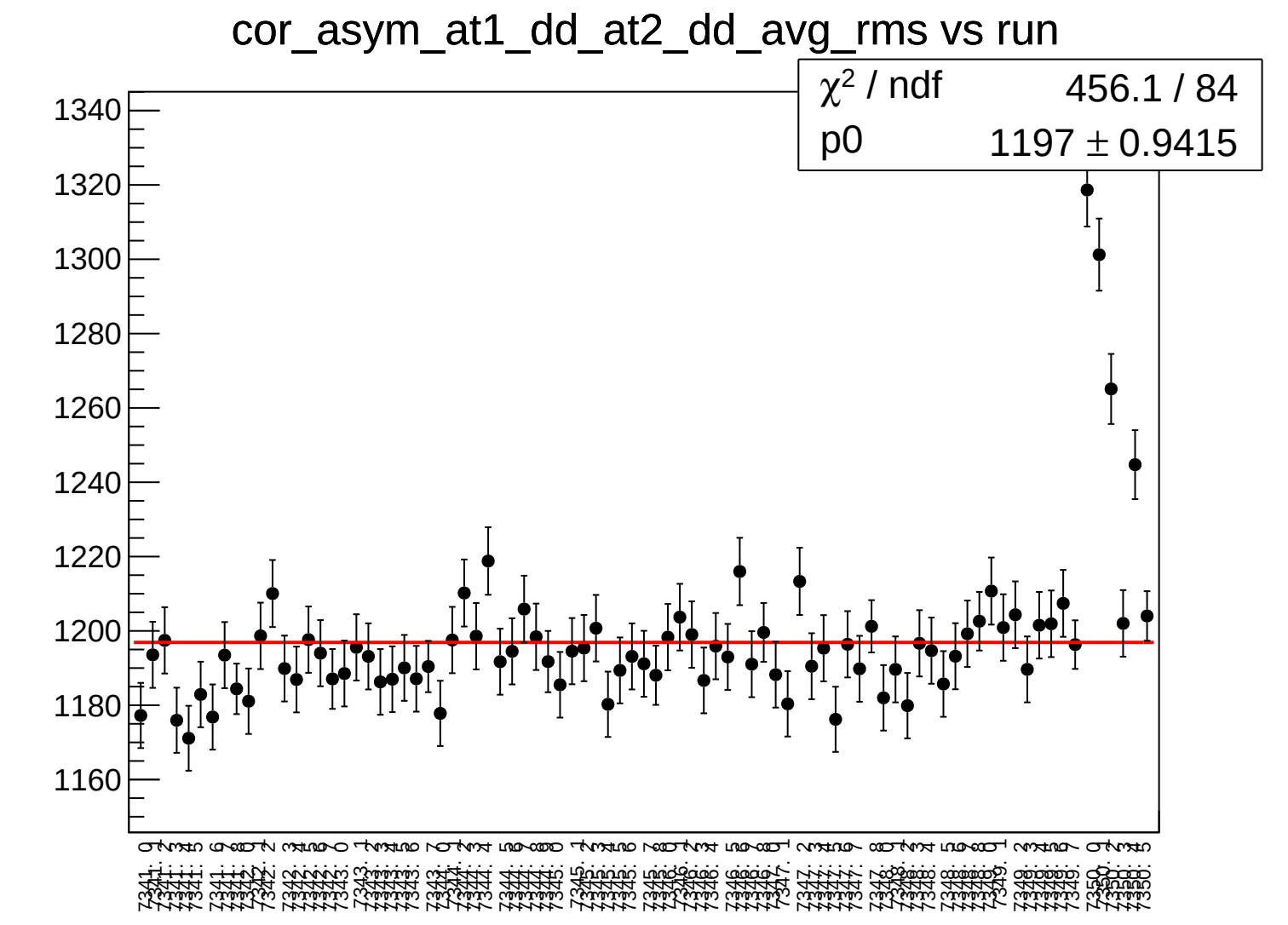

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 83.51 / 84
p0 473.8 ± 589.2
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −421.3
Std Dev 0
2
1
0
−1
−2
−3

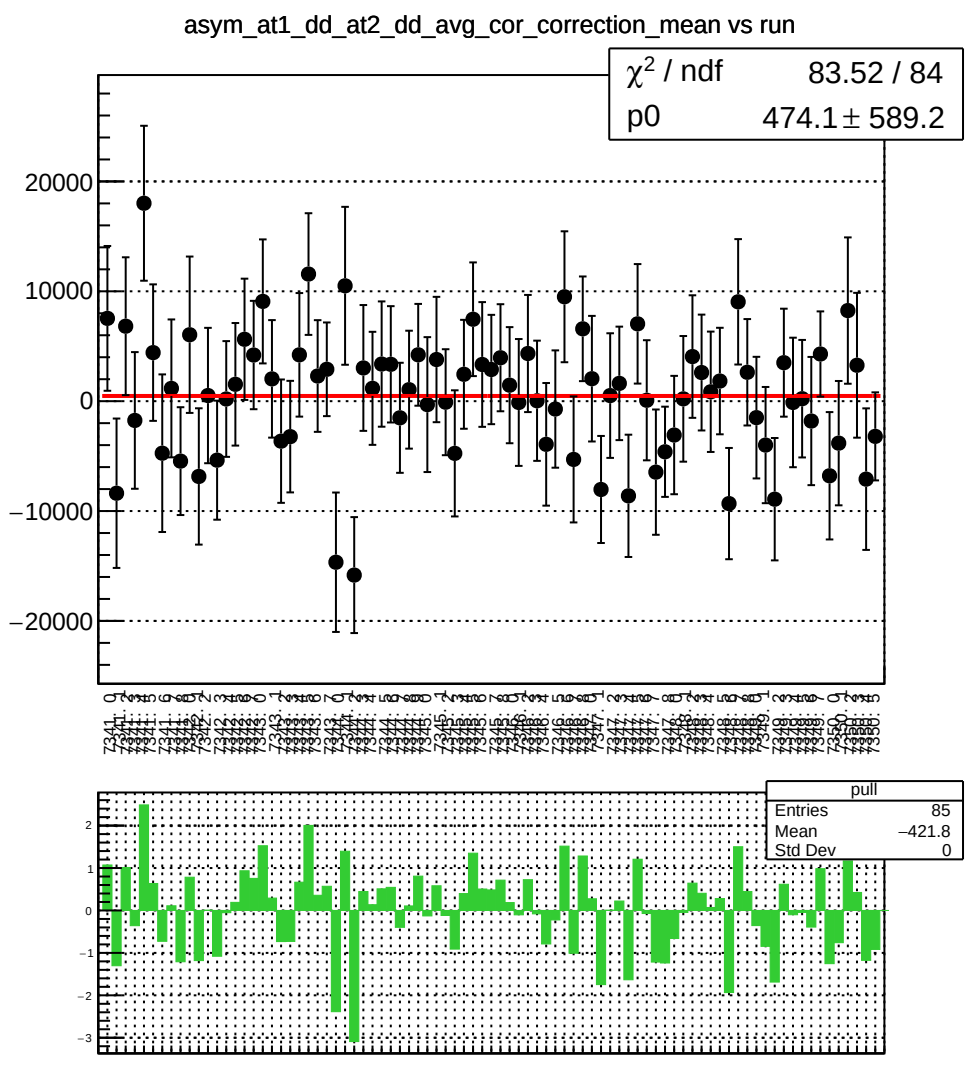

pull1D
Entries 85
Mean 0.00777
Std Dev 0.9912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

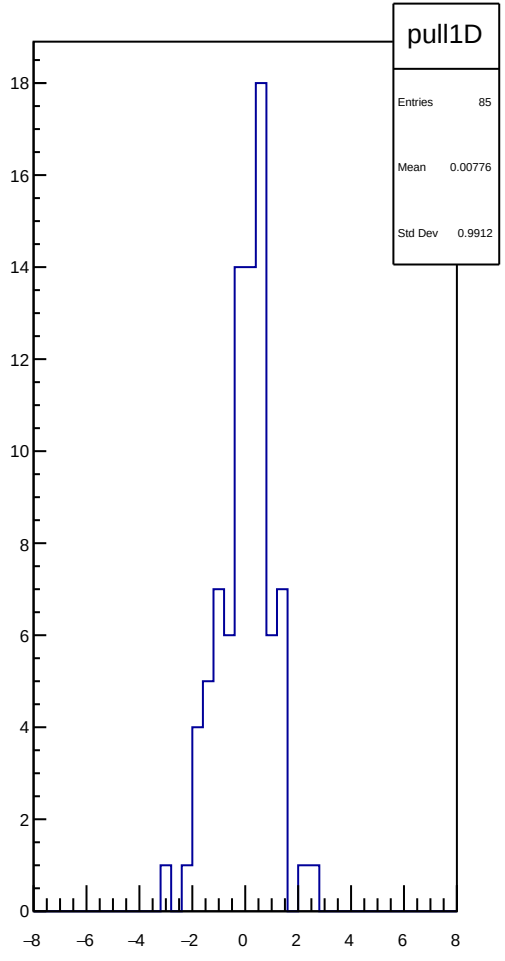

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.246e+04 / 84
p0 527.6 ± 0.4166
700
650
600
550
500
450

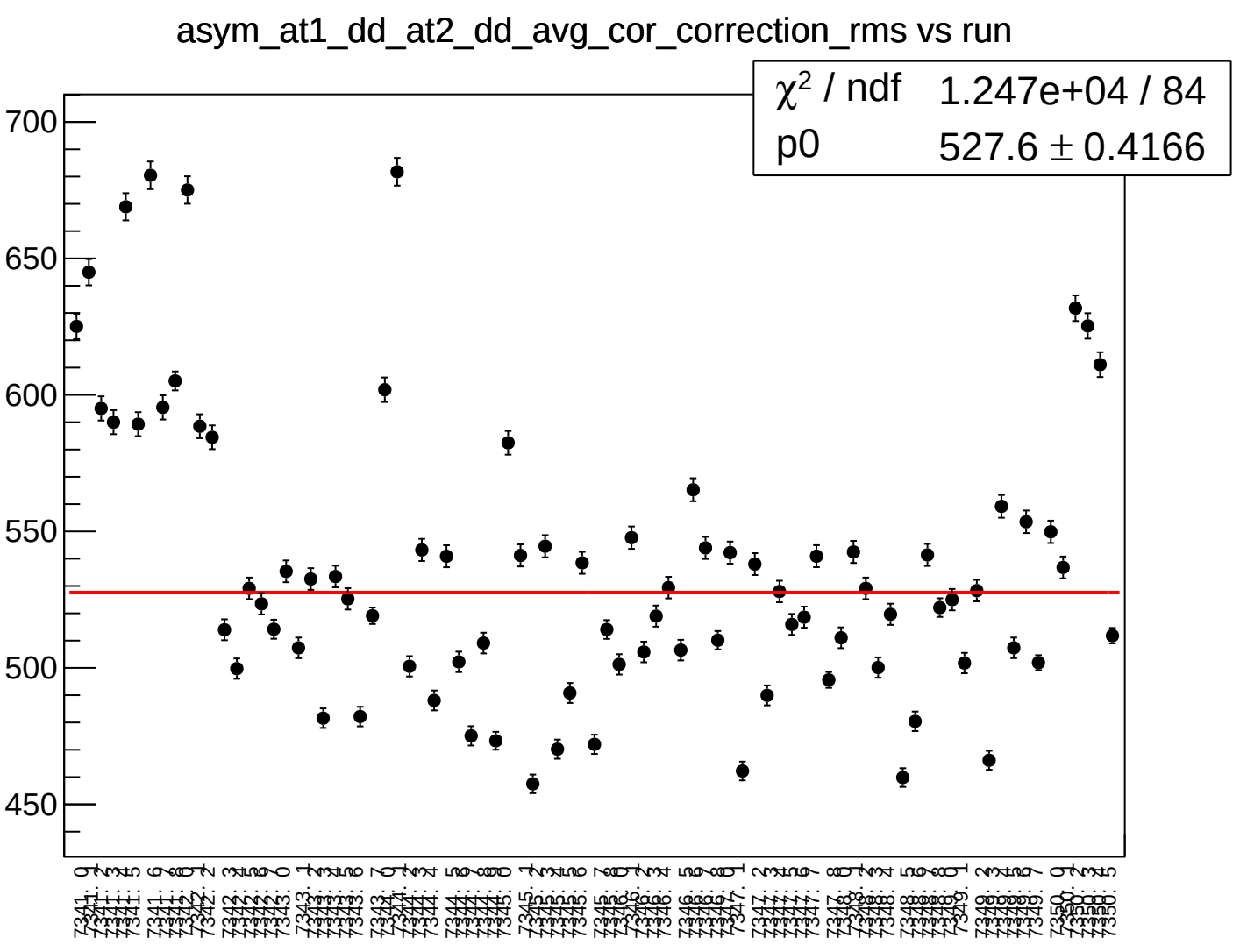

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 75.42 / 84
p0 −318.5 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −20.83
Std Dev 0
3
2
1
0
−1
−2

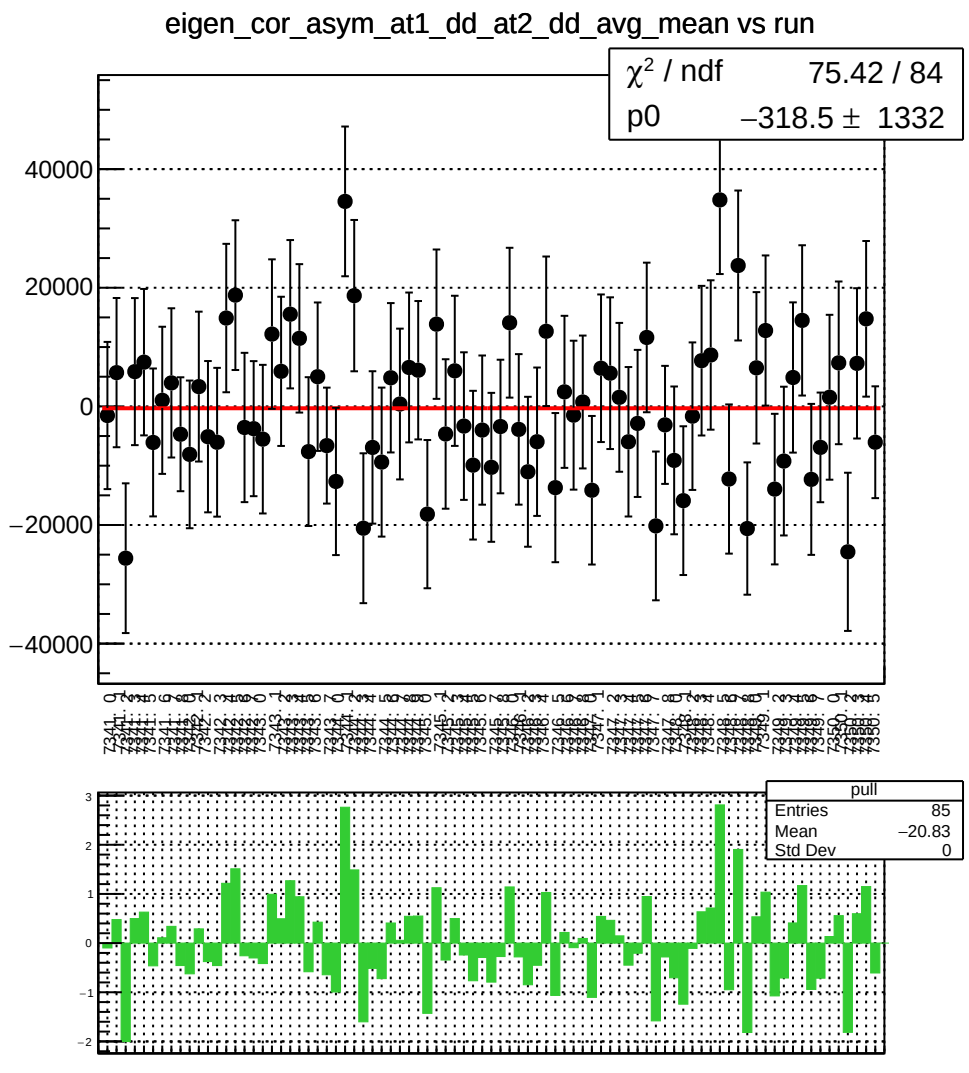

pull1D
Entries 85
Mean 0.01372
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

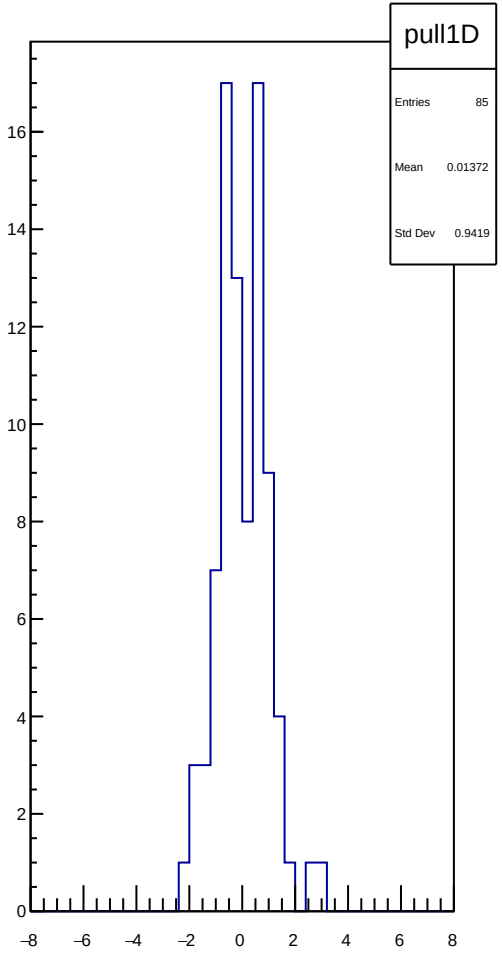

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 456.1 / 84
p0 1197 ± 0.9415
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

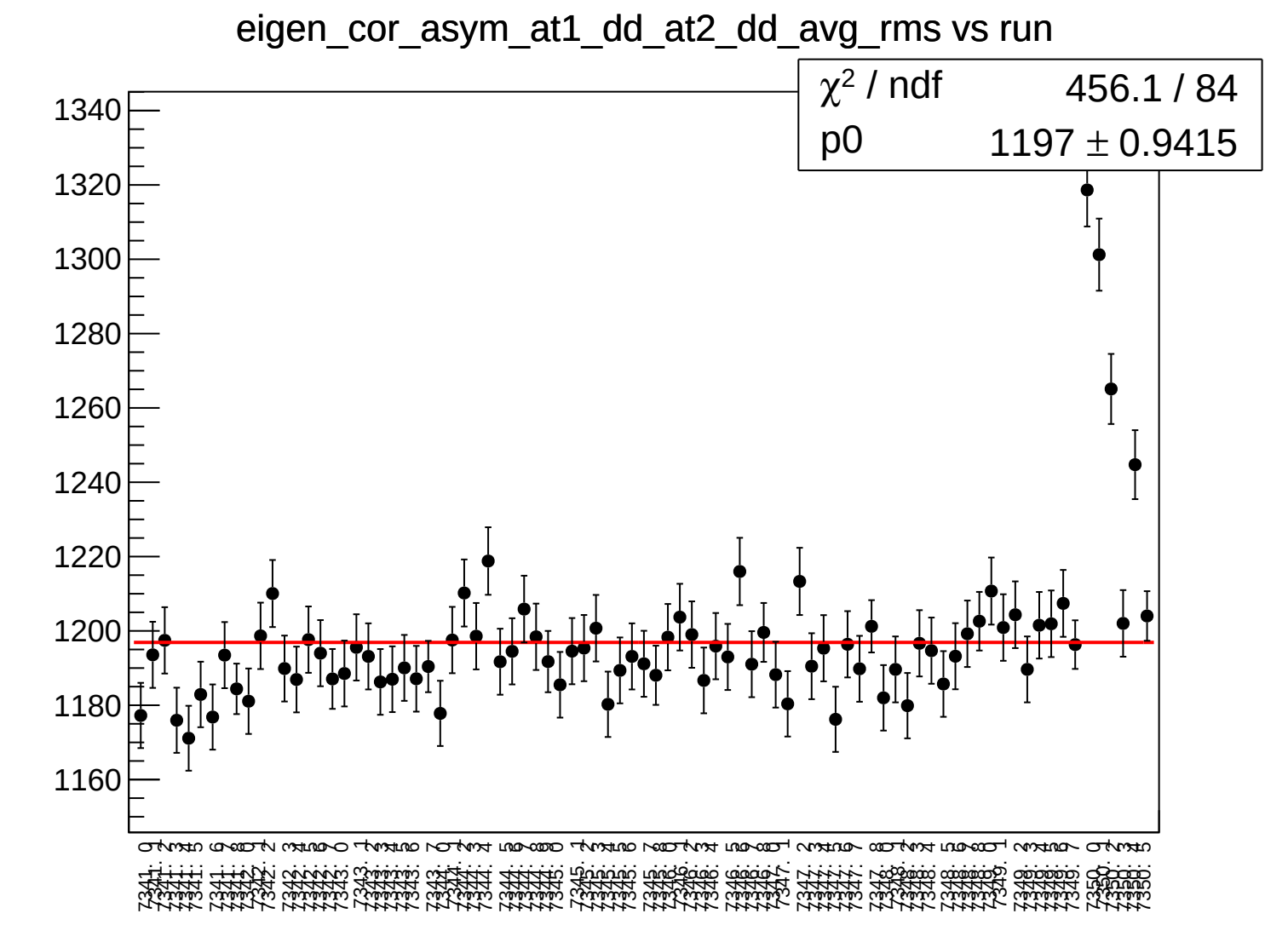

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 83.52 / 84
p0 474.1 ± 589.2
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −421.8
Std Dev 0
2
1
0
−1
−2
−3

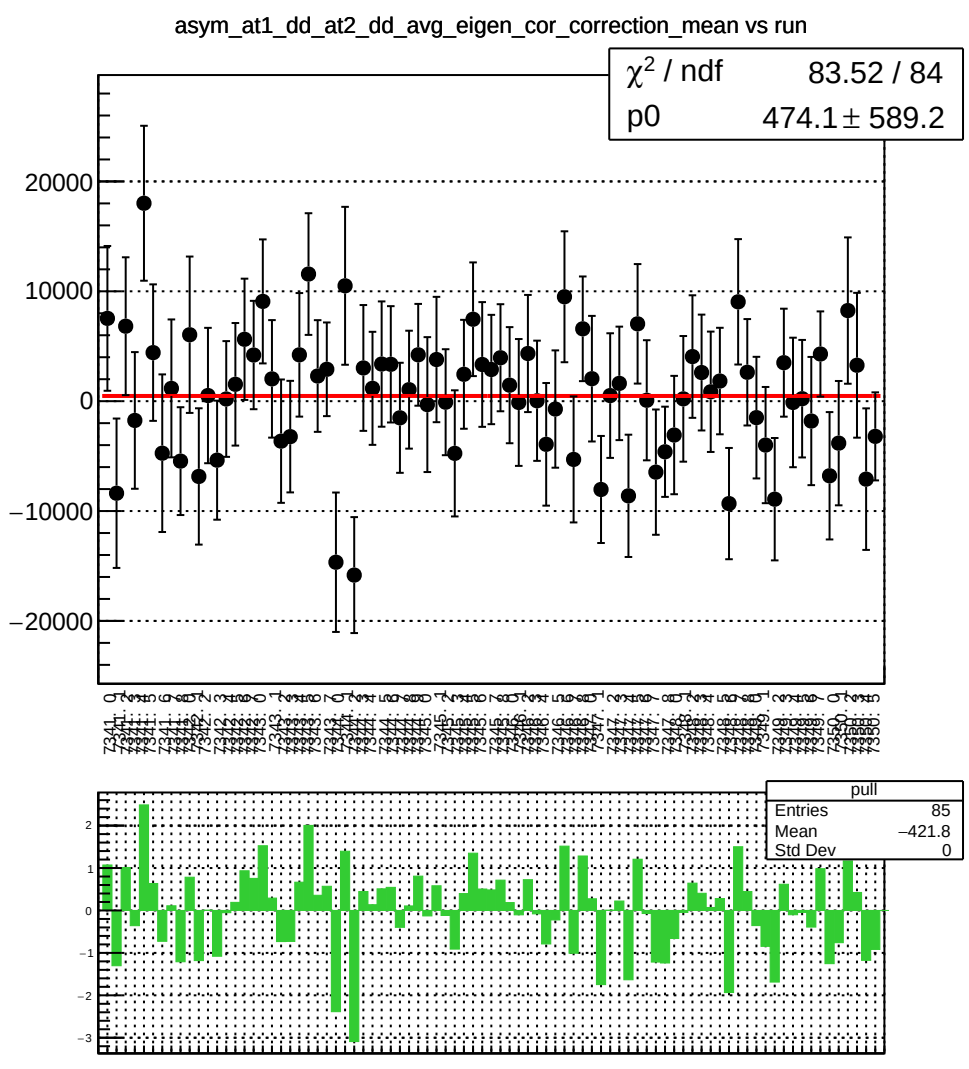

pull1D
Entries 85
Mean 0.00776
Std Dev 0.9912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

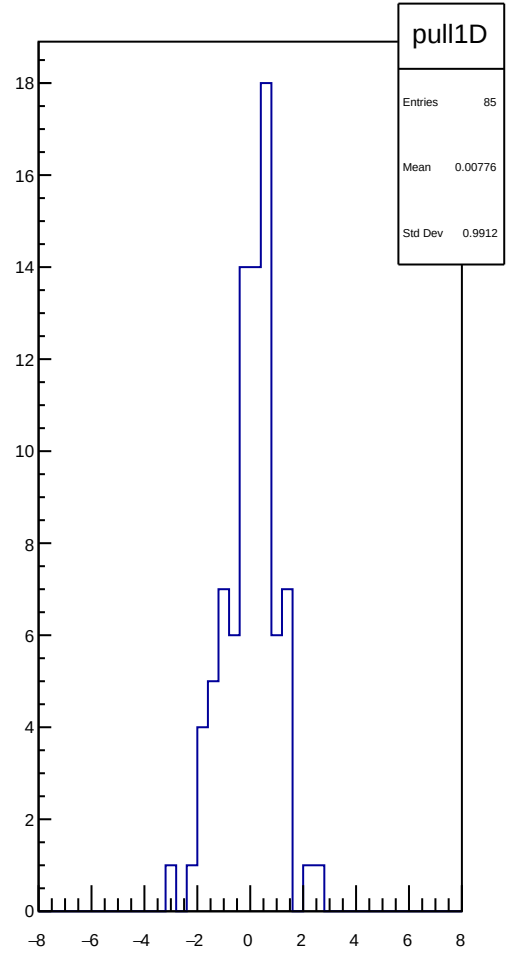

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.247e+04 / 84
p0 527.6 ± 0.4166
700
650
600
550
500
450

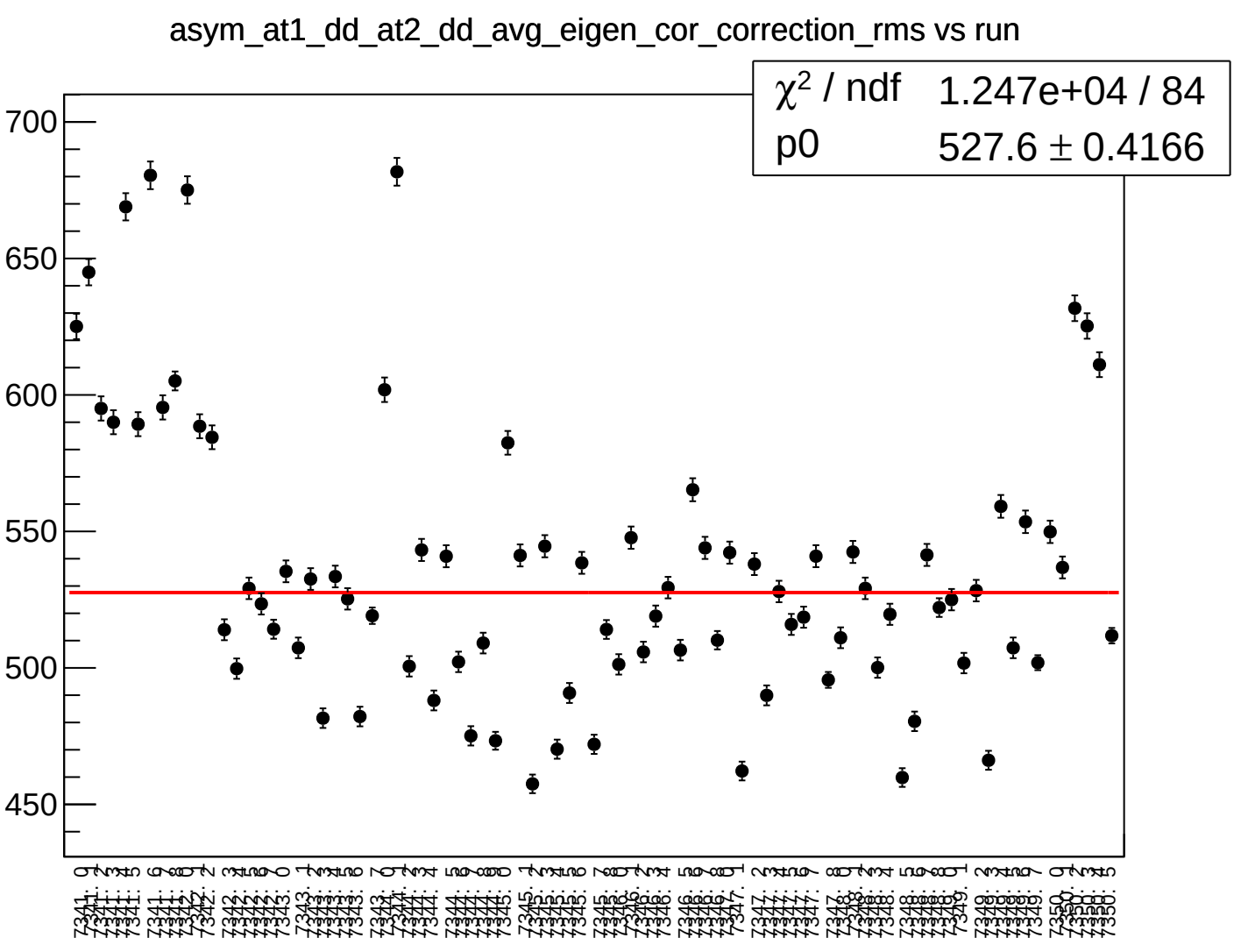

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 75.42 / 84
p0 −318.5 ± 1332
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −20.83
Std Dev 0
3
2
1
0
−1
−2

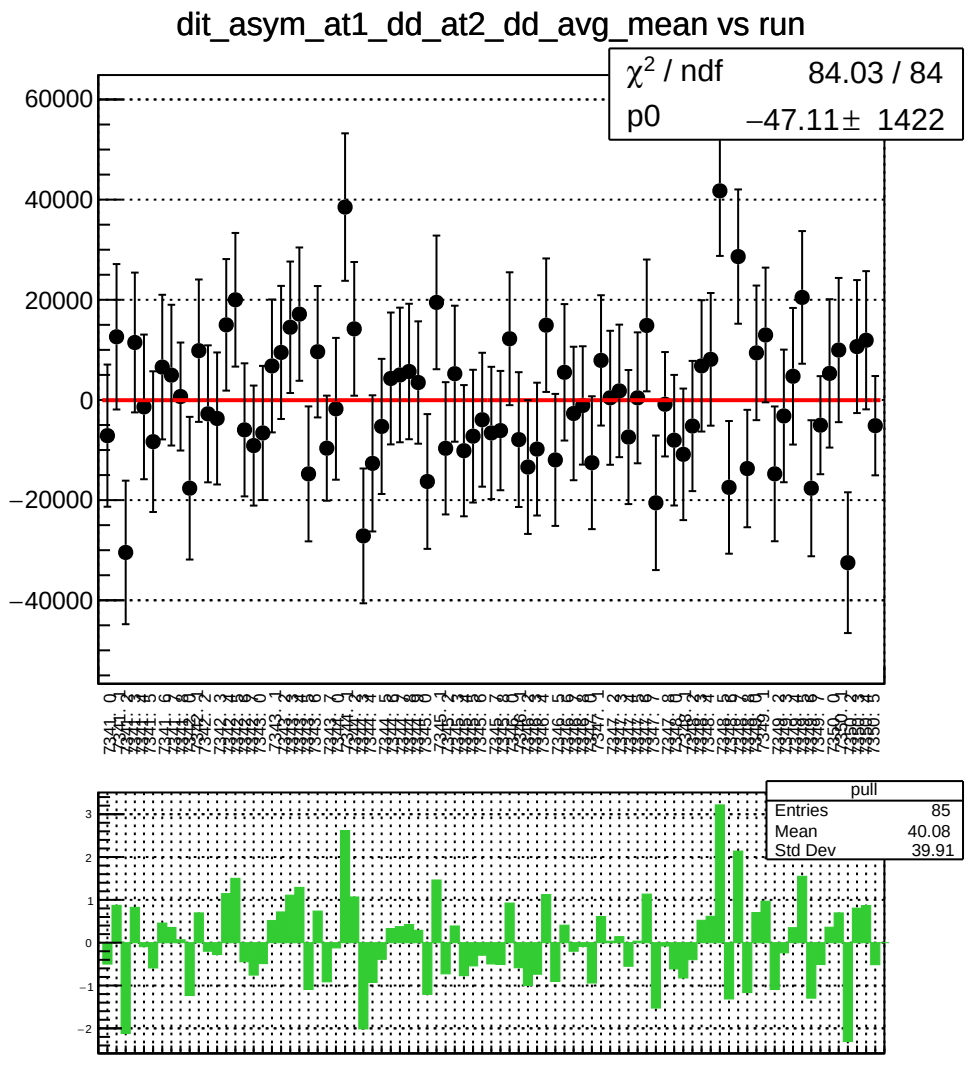

pull1D
Entries 85
Mean 0.01372
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

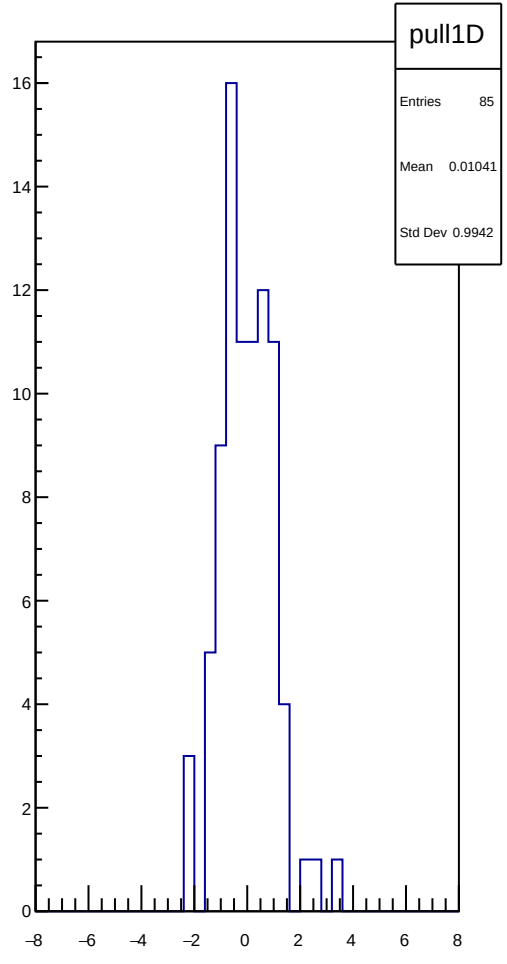

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 456.1 / 84
p0 1197 ± 0.9415
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

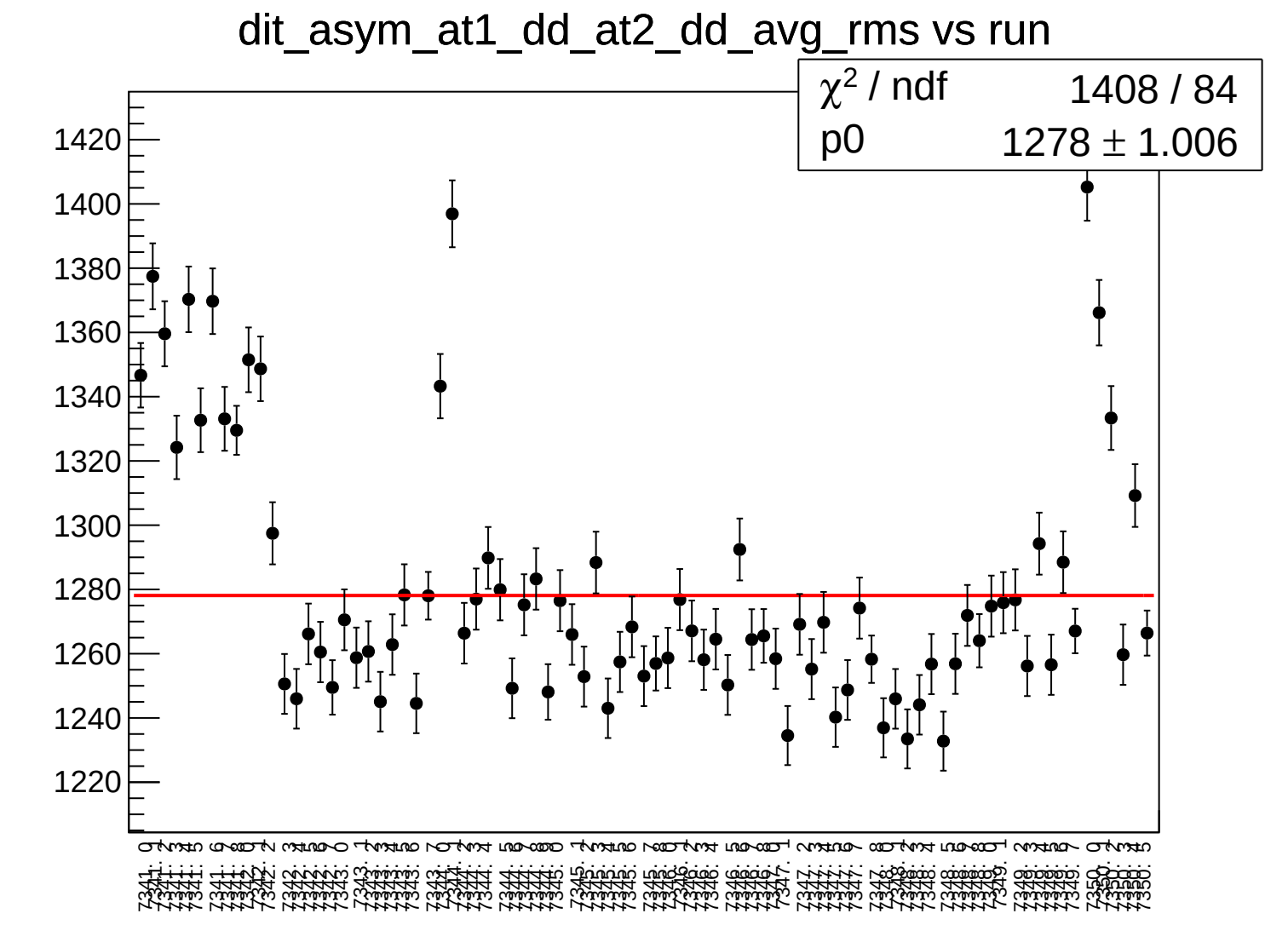

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.52 / 84
p0 474.1 ± 589.2
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −421.8
Std Dev 0
2
1
0
−1
−2
−3

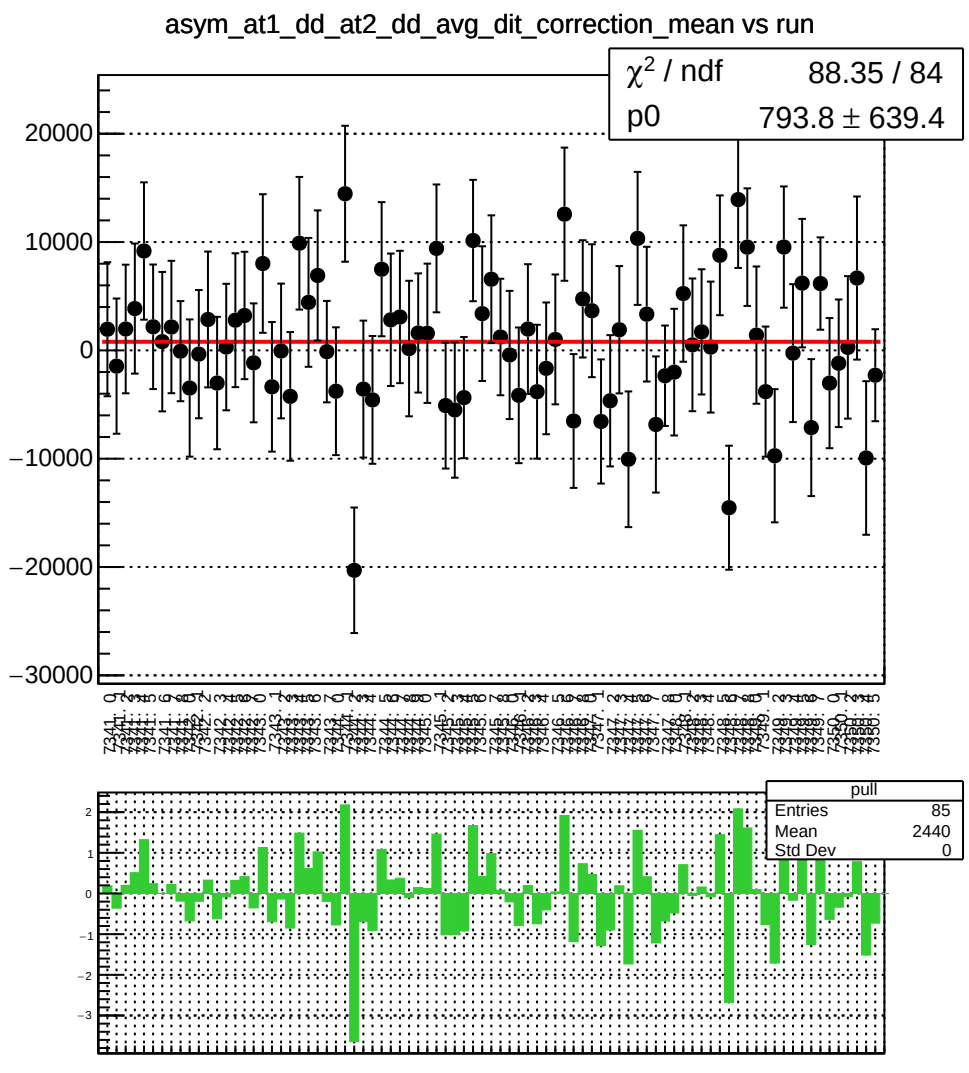

pull1D
Entries 85
Mean 0.00776
Std Dev 0.9912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

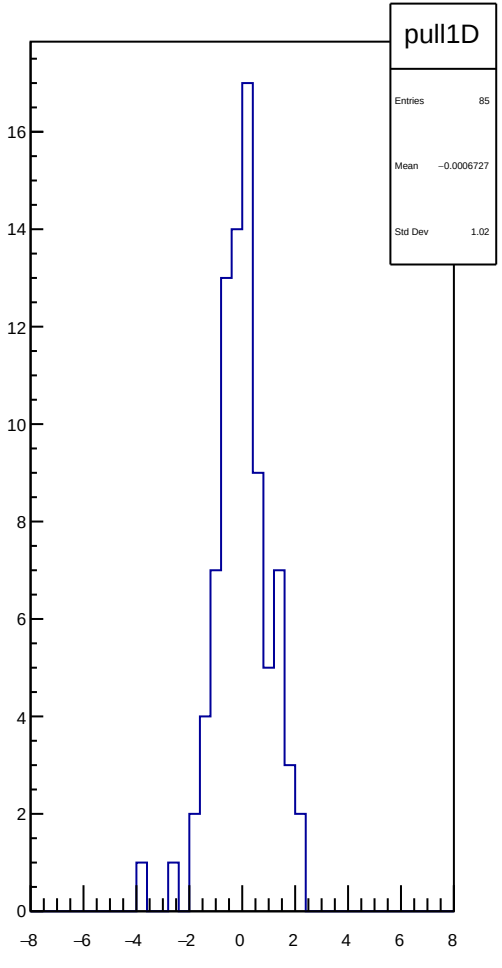

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.247e+04 / 84
p0 527.6 ± 0.4166
700
650
600
550
500
450

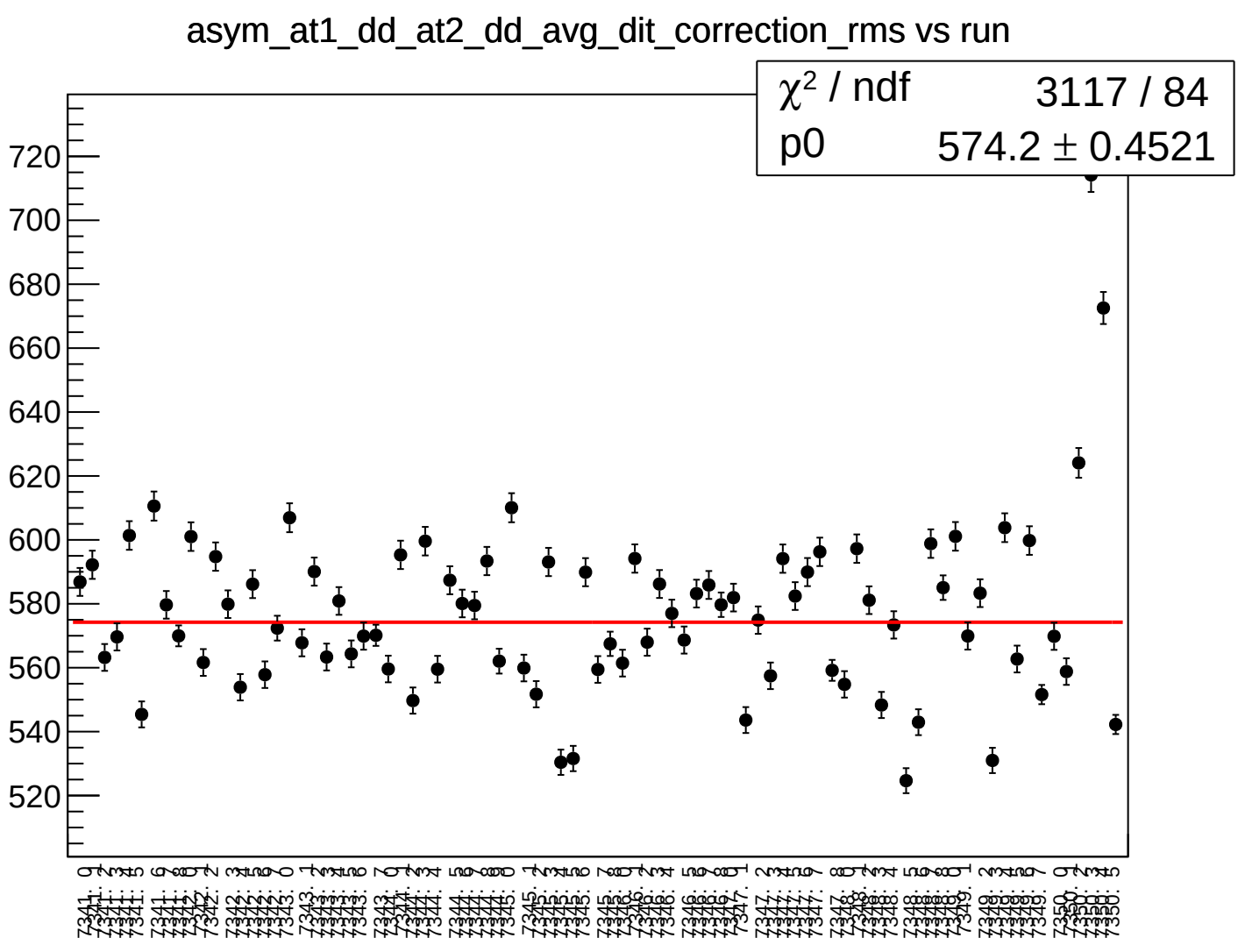

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.03 / 84
p0 −47.11± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 40.08
Std Dev 39.91
3
2
1
0
−1
−2

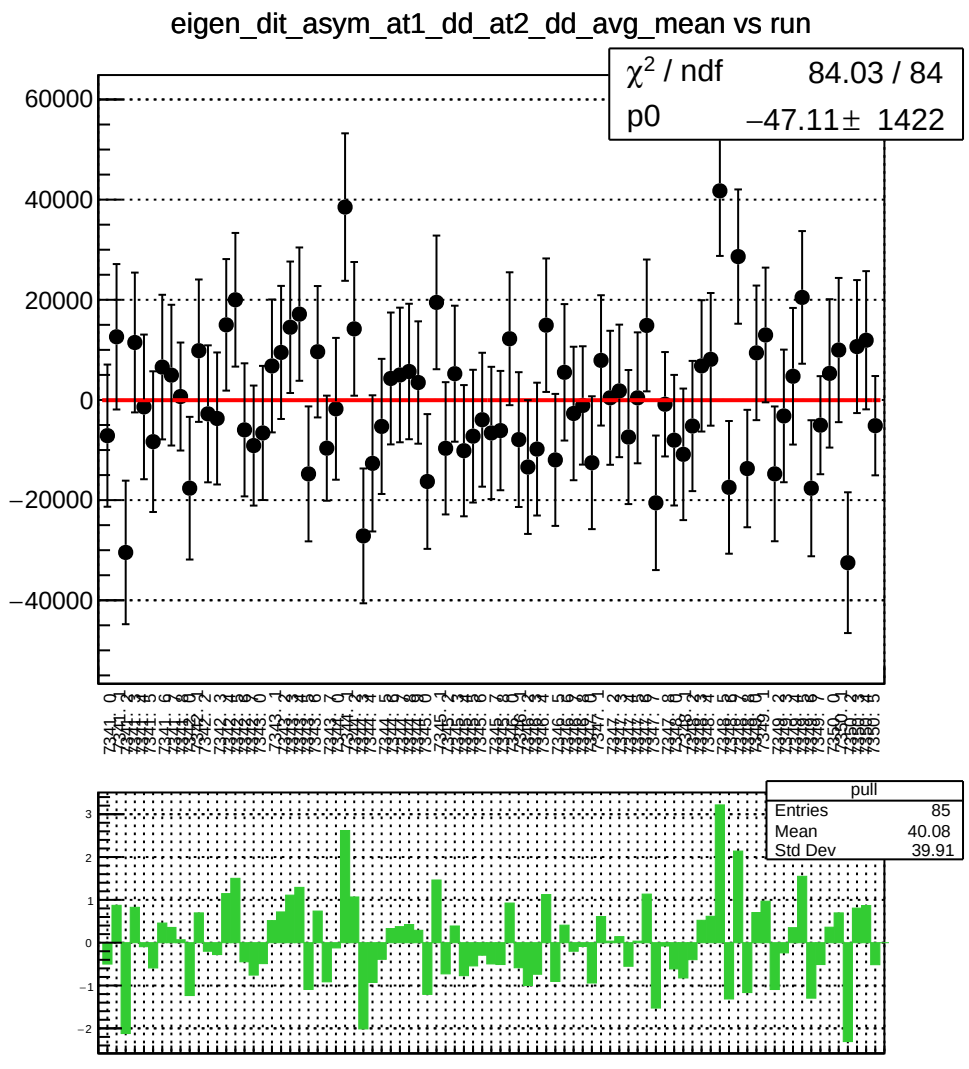

pull1D
Entries 85
Mean 0.01041
Std Dev 0.9942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

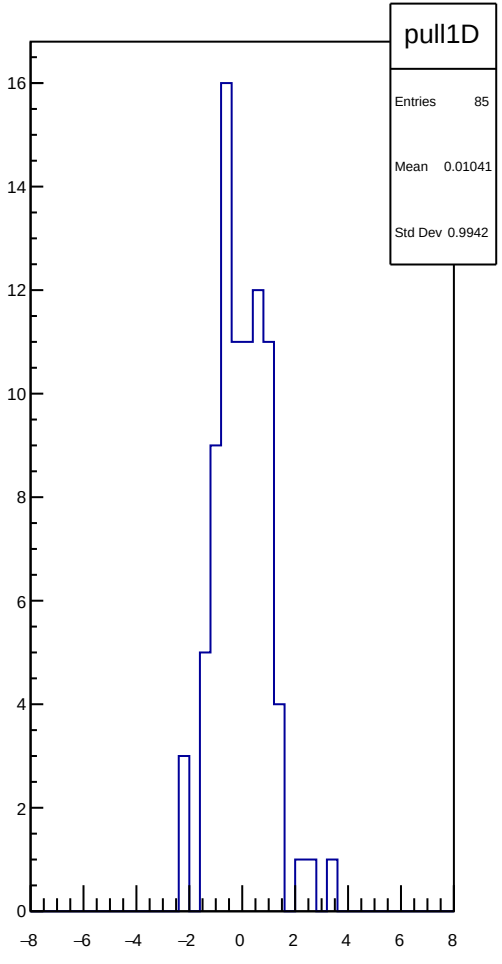

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1408 / 84
p0 1278 ± 1.006
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

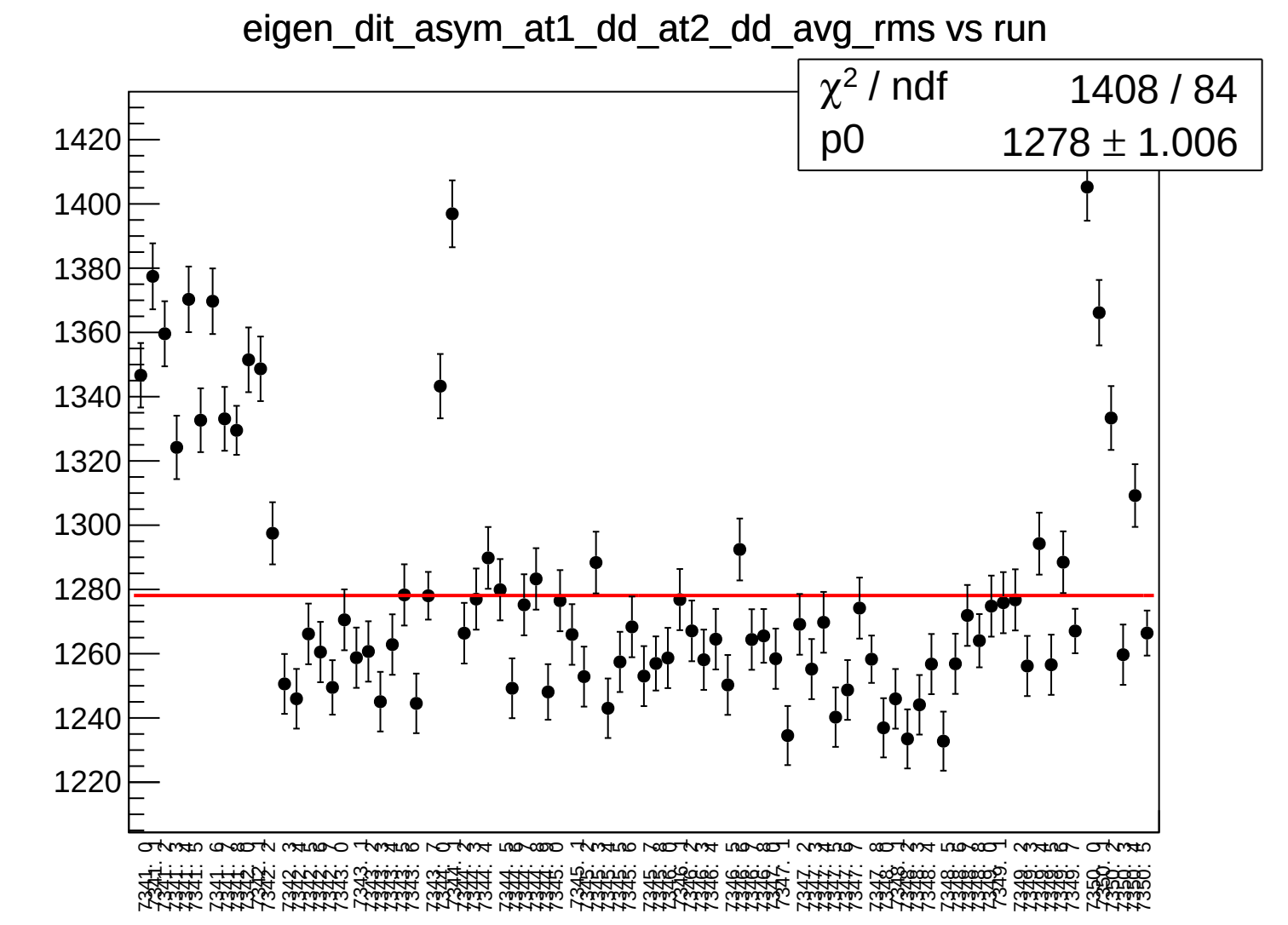

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 88.35 / 84
p0 793.8 ± 639.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 2440
Std Dev 0
2
1
0
−1
−2
−3

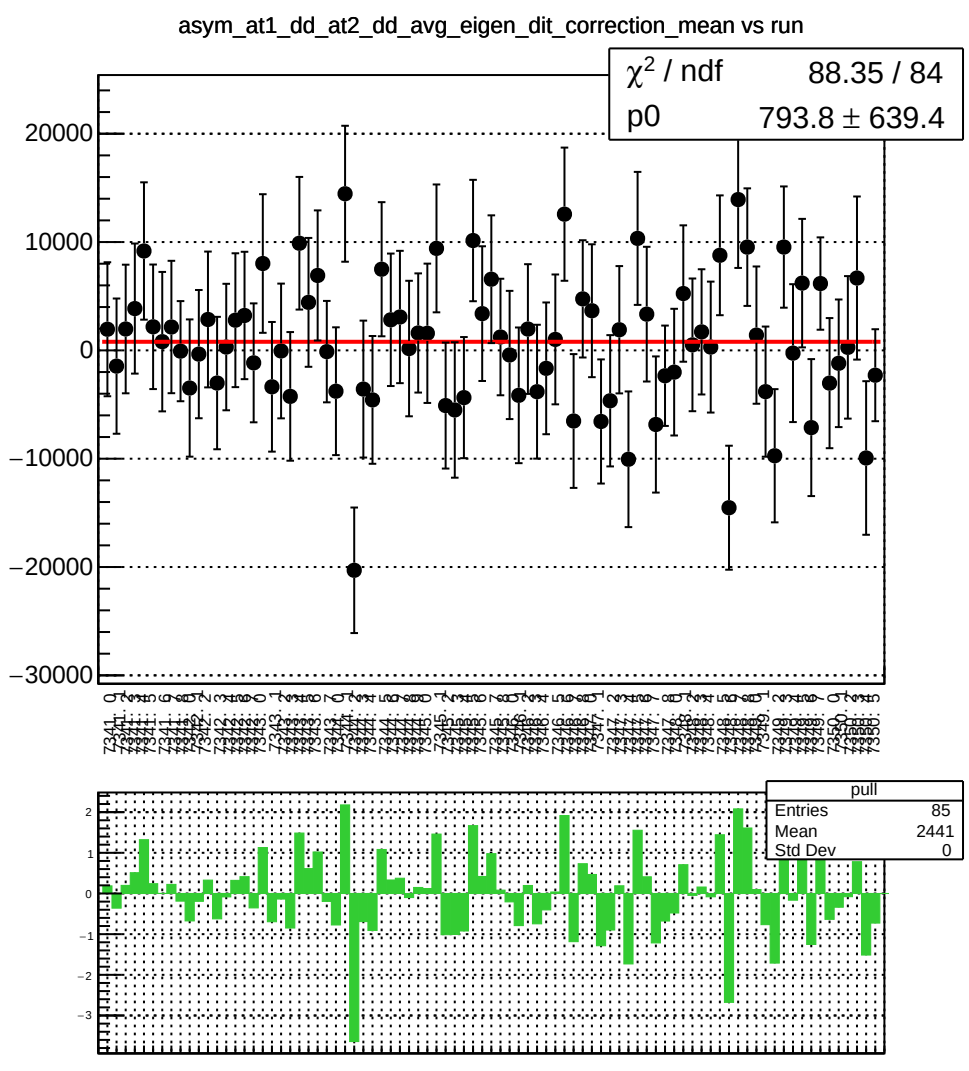

pull1D
Entries 85
Mean −0.0006727
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

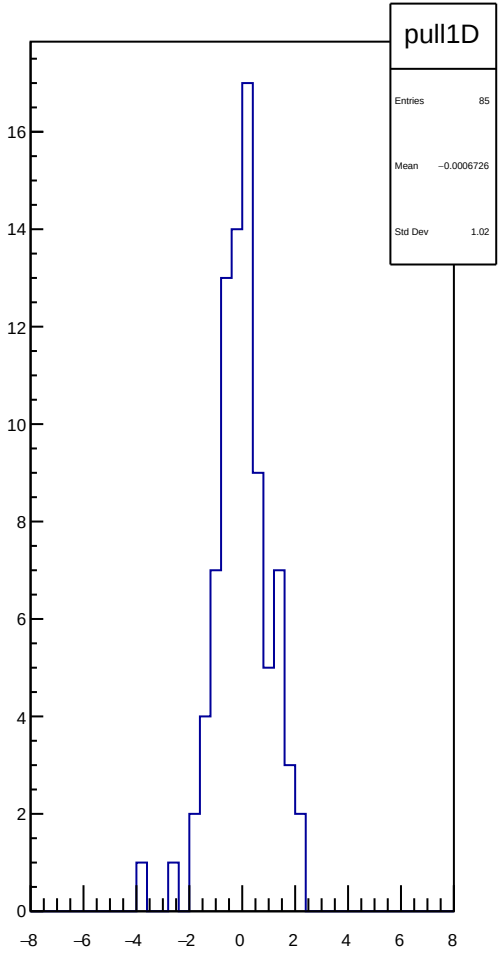

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 3117 / 84
p0 574.2 ± 0.4521
720
700
680
660
640
620
600
580
560
540
520

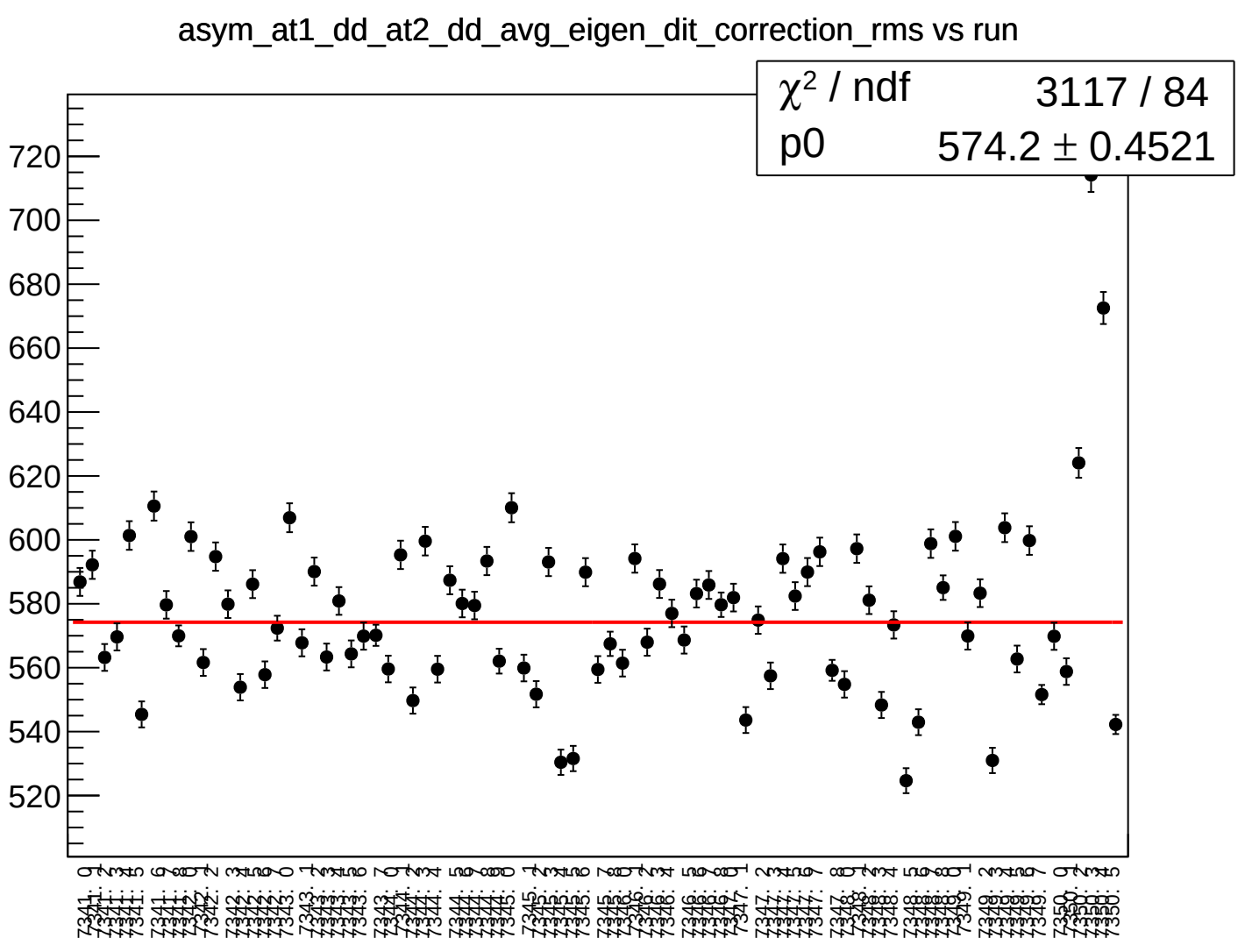

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.03 / 84
p0 −47.11± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 40.08
Std Dev 39.91
3
2
1
0
−1
−2

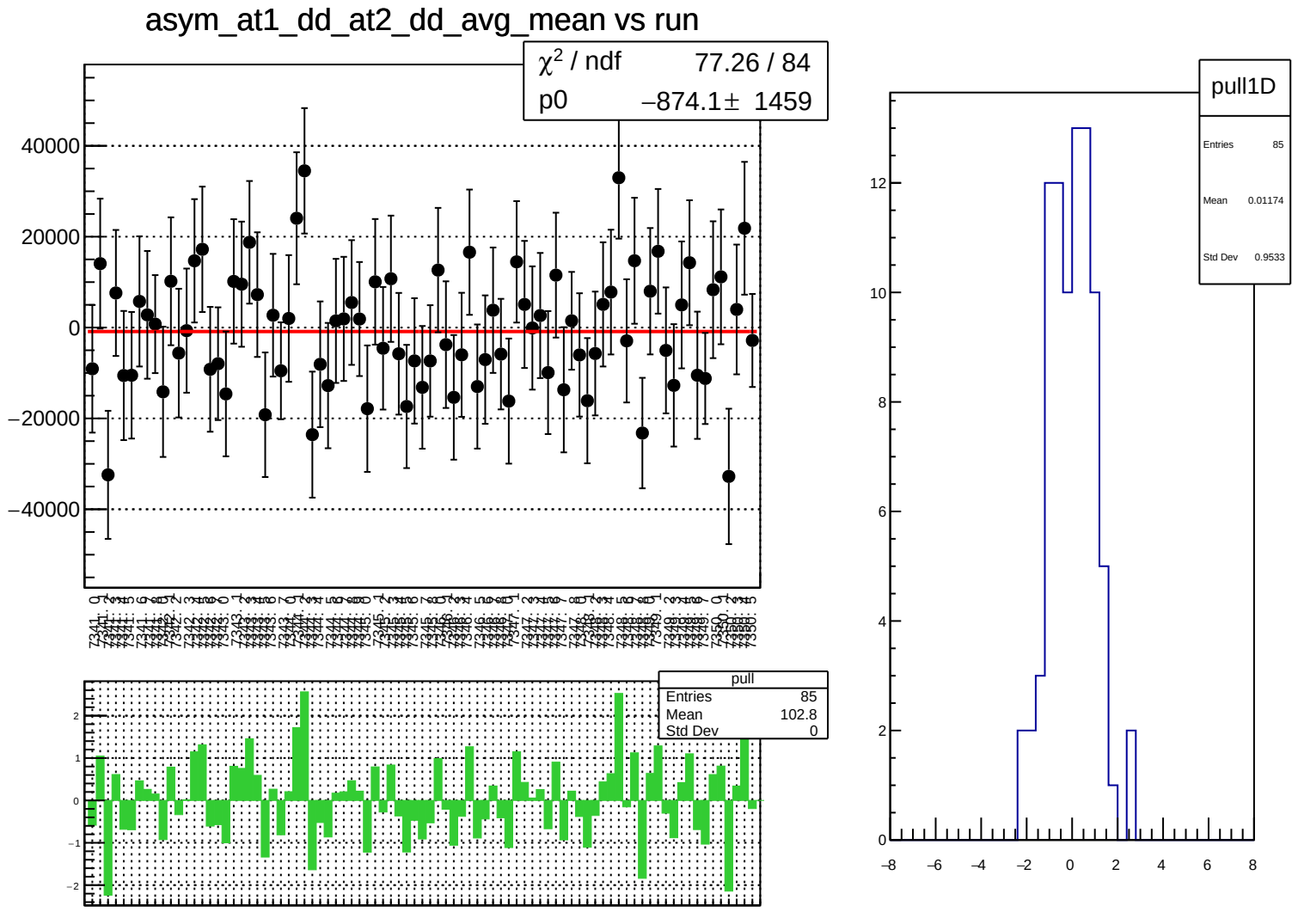

pull1D
Entries 85
Mean 0.01041
Std Dev 0.9942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

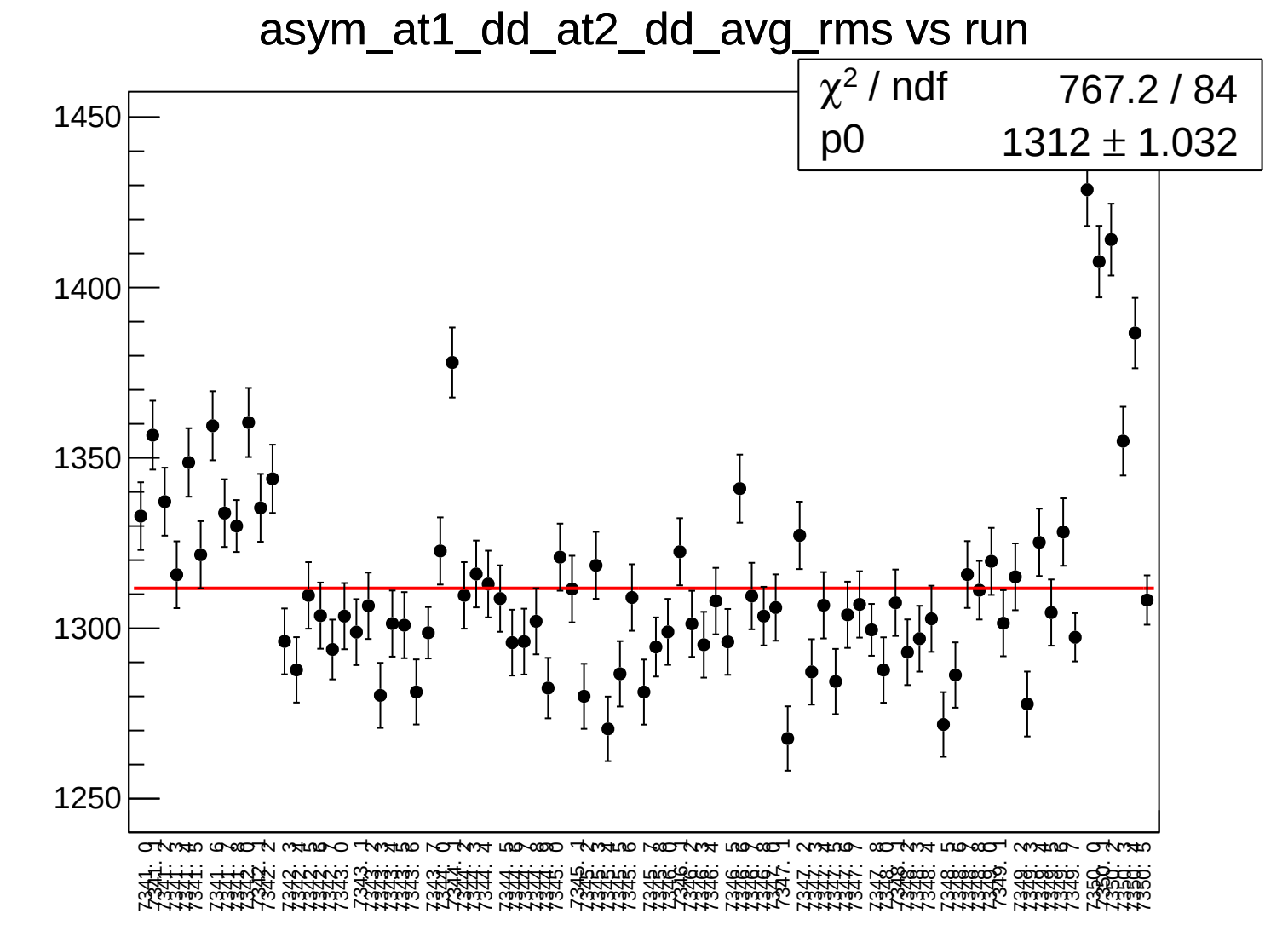

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1408 / 84
p0 1278 ± 1.006
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

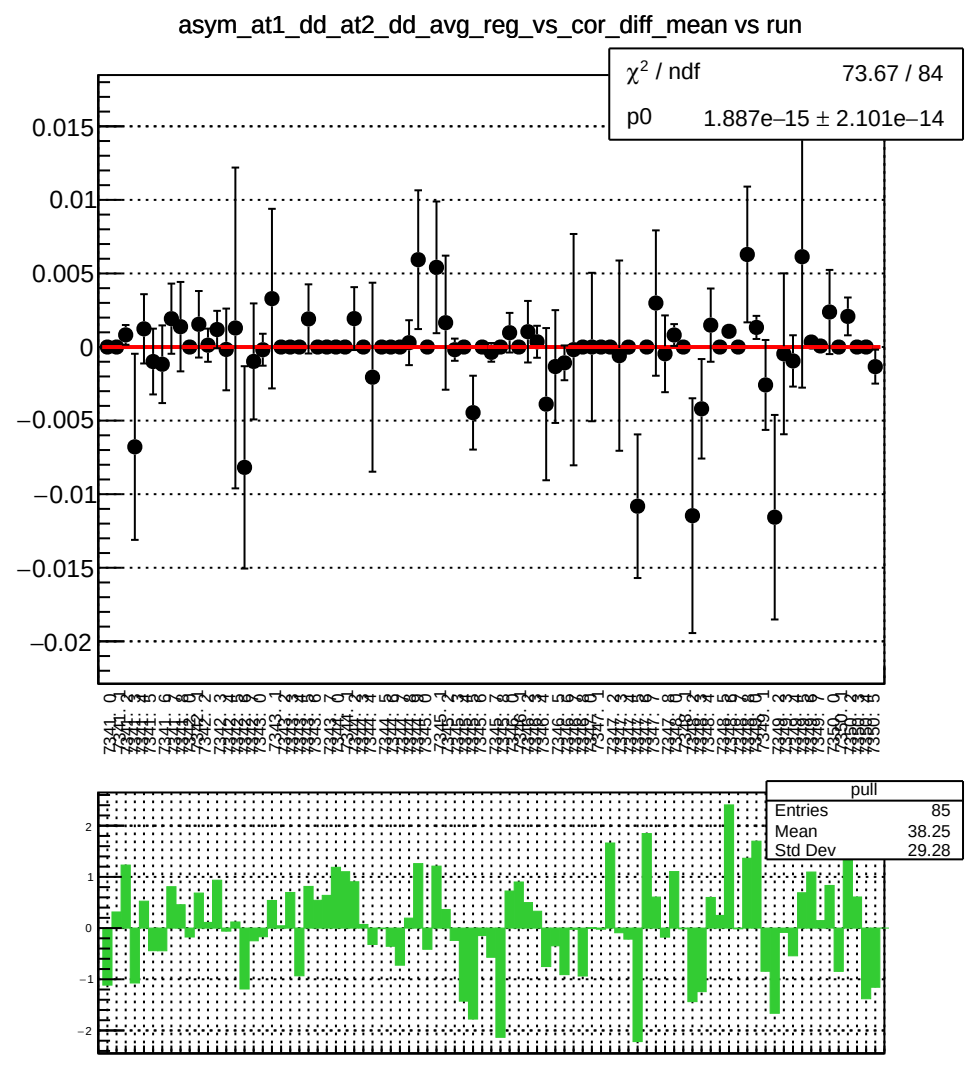

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.35 / 84
p0 793.8 ± 639.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 2441
Std Dev 0
2
1
0
−1
−2
−3

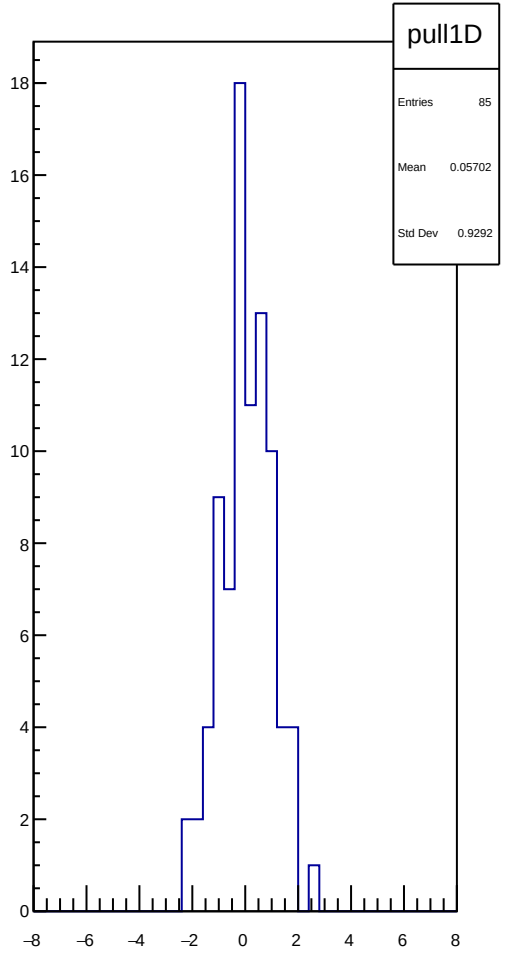

pull1D
Entries 85
Mean −0.0006726
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

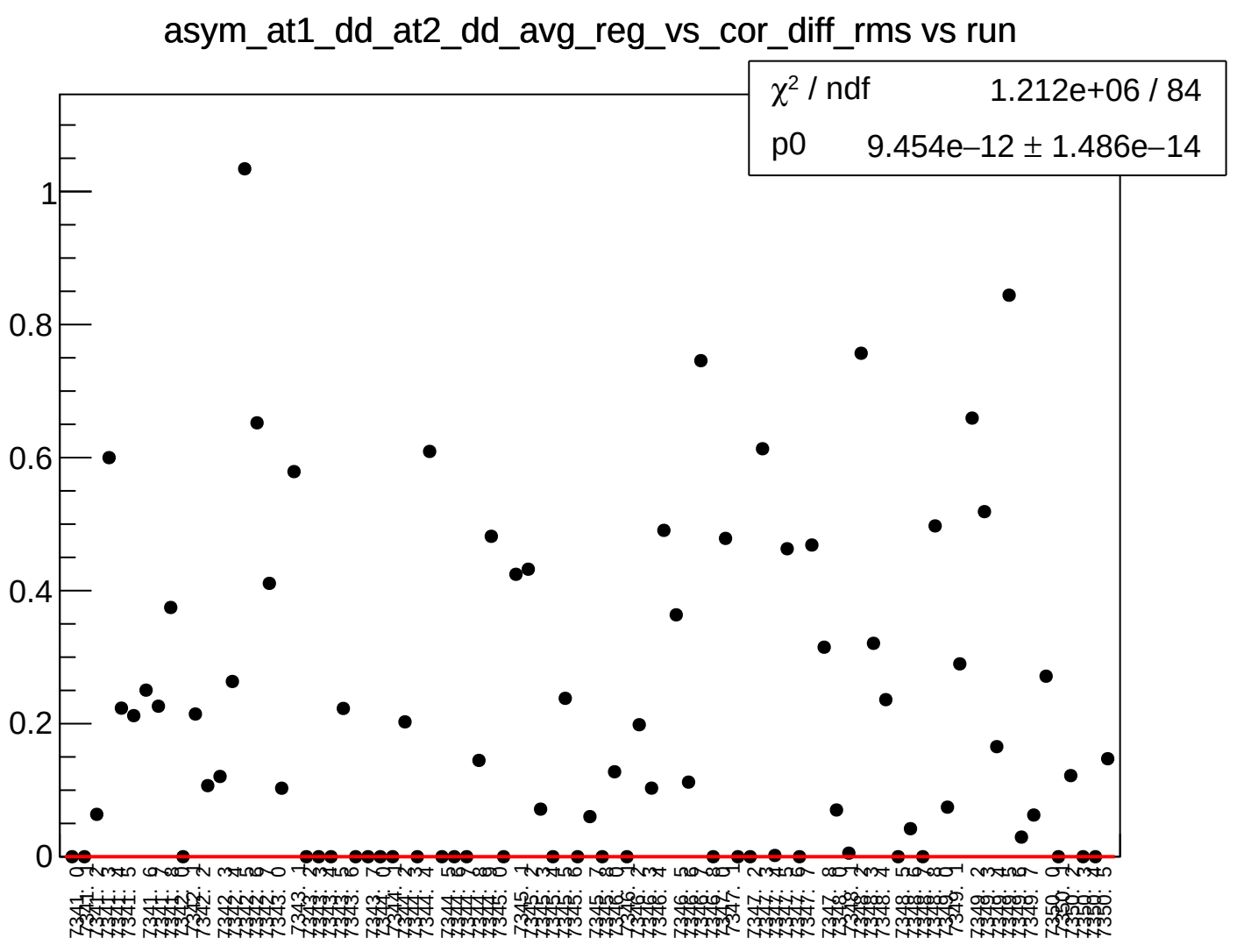

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3117 / 84
p0 574.2 ± 0.4521
720
700
680
660
640
620
600
580
560
540
520

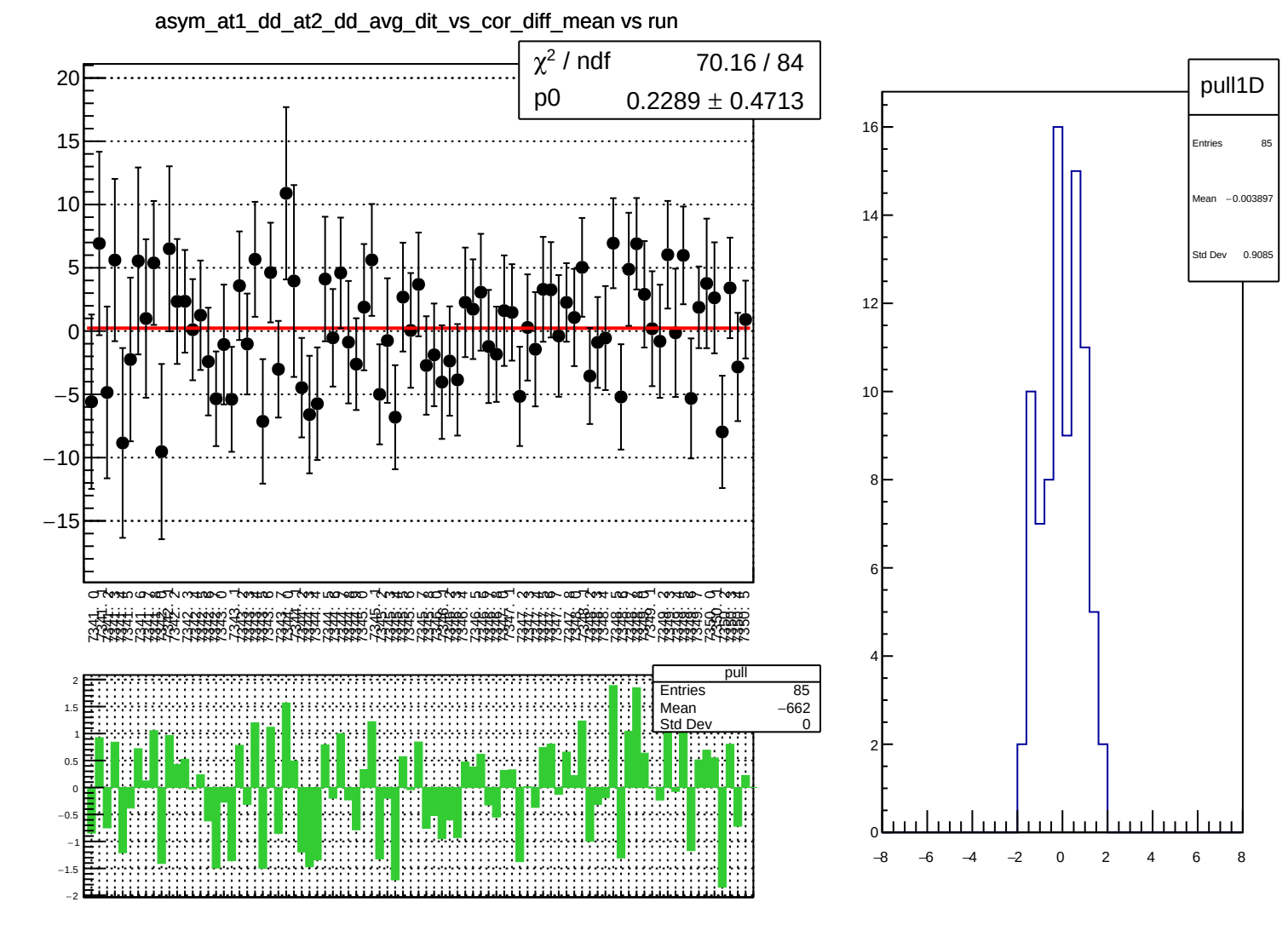

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 77.26 / 84
p0 −874.1± 1459
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 102.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01174
Std Dev 0.9533
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

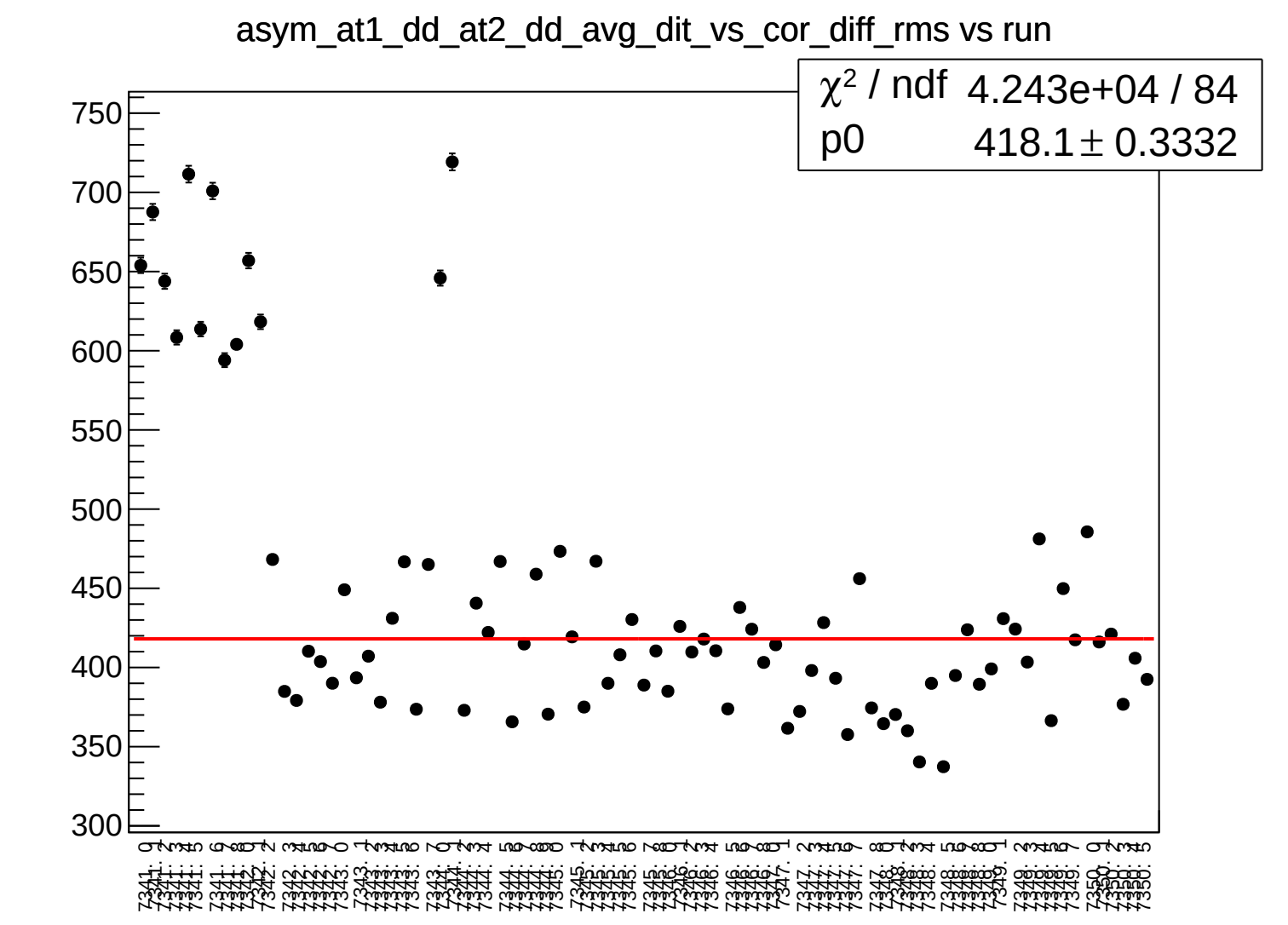

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 767.2 / 84
p0 1312 ± 1.032
1450
1400
1350
1300
1250

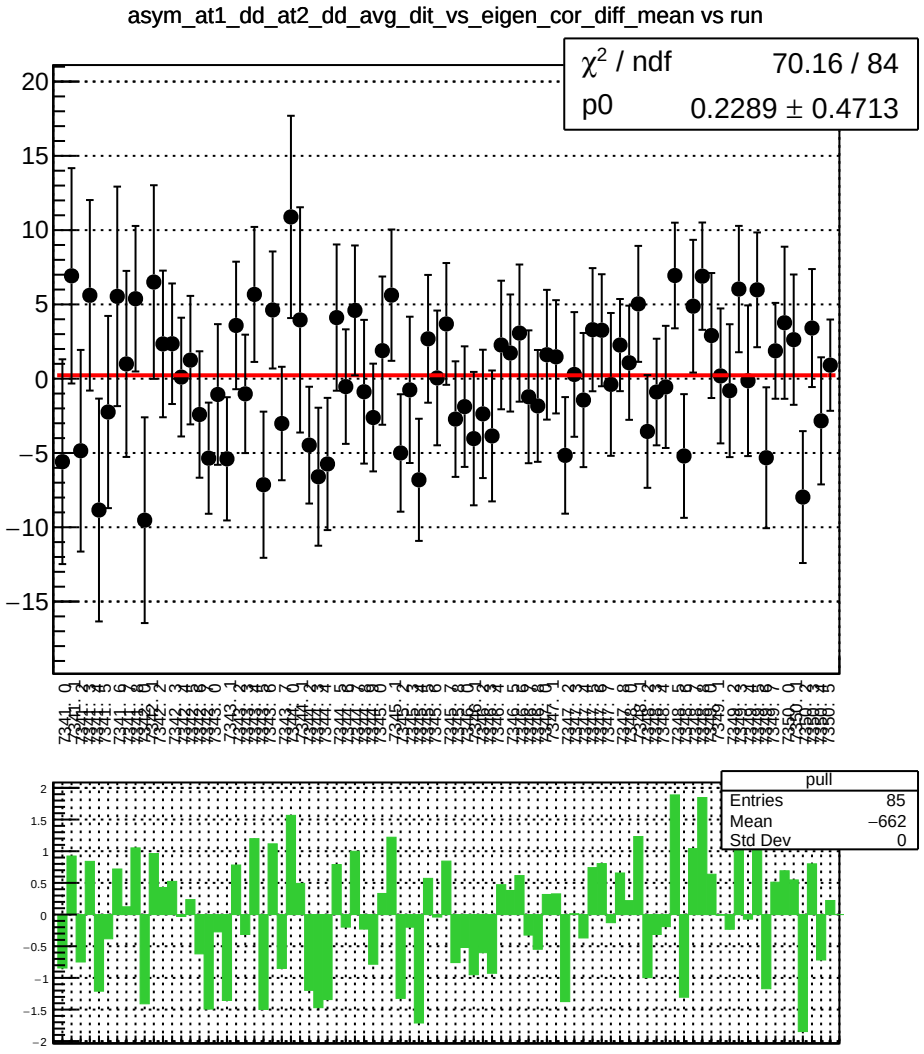

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.67 / 84
p0 1.887e−15 ± 2.101e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 85
Mean 38.25
Std Dev 29.28
2
1
0
−1
−2

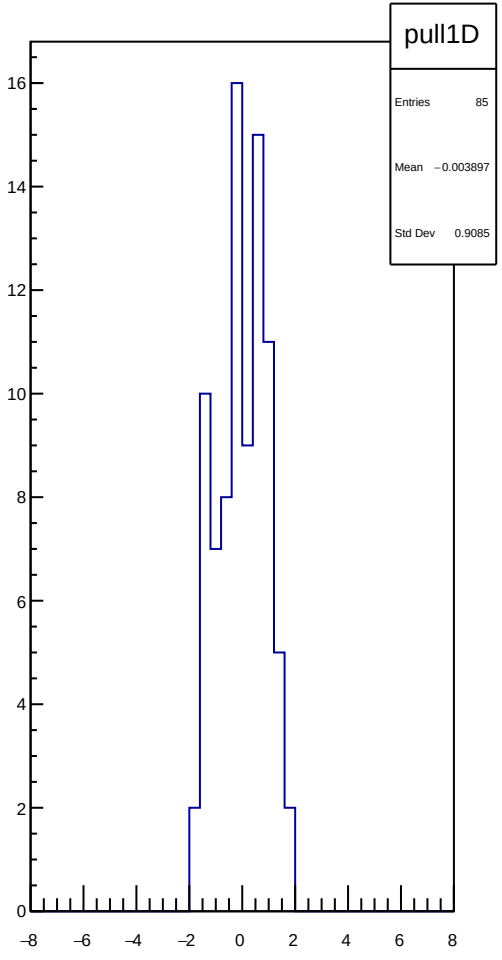

pull1D
Entries 85
Mean 0.05702
Std Dev 0.9292
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

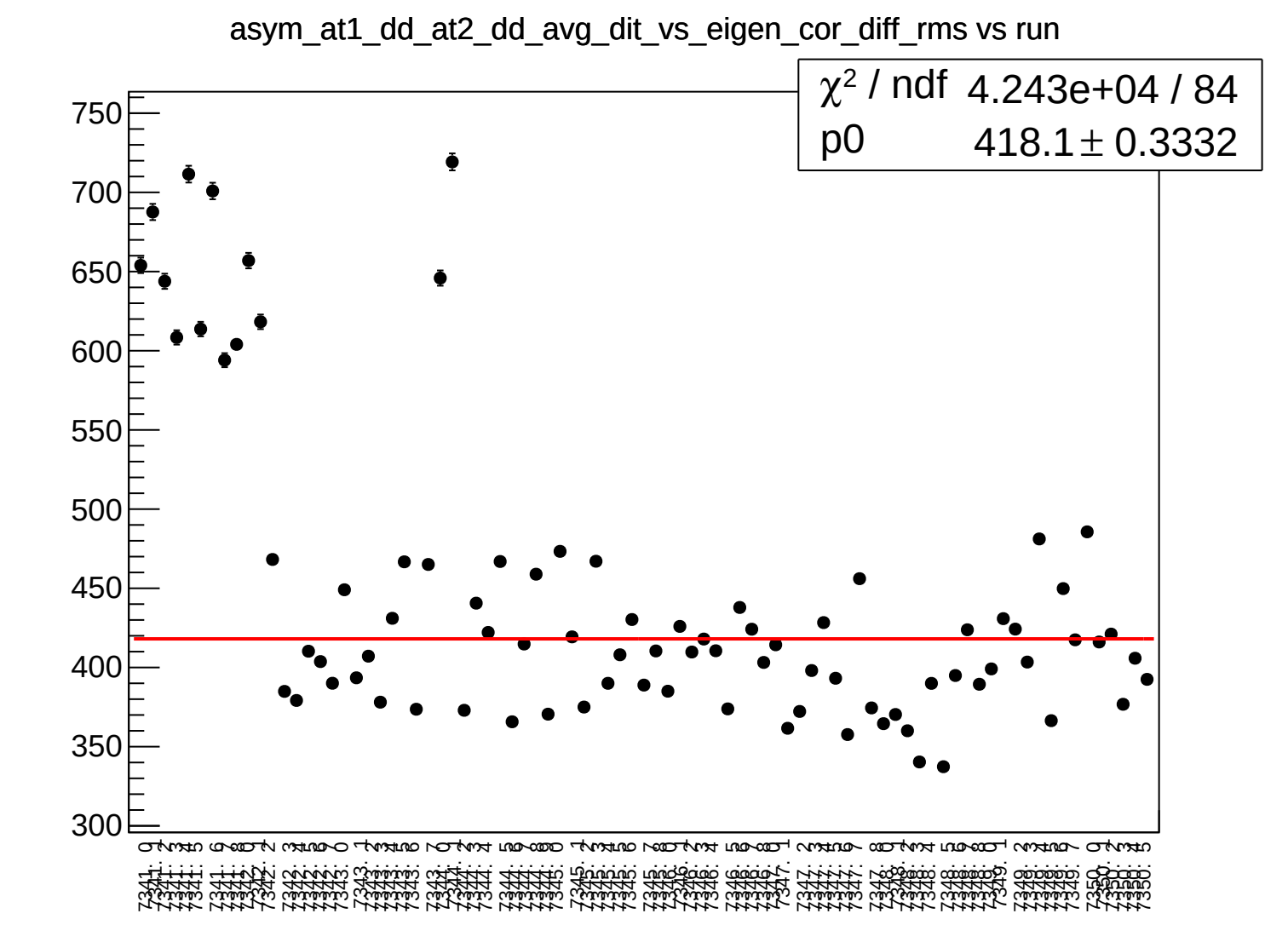

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.212e+06 / 84
p0 9.454e−12 ± 1.486e−14
1
0.8
0.6
0.4
0.2
0

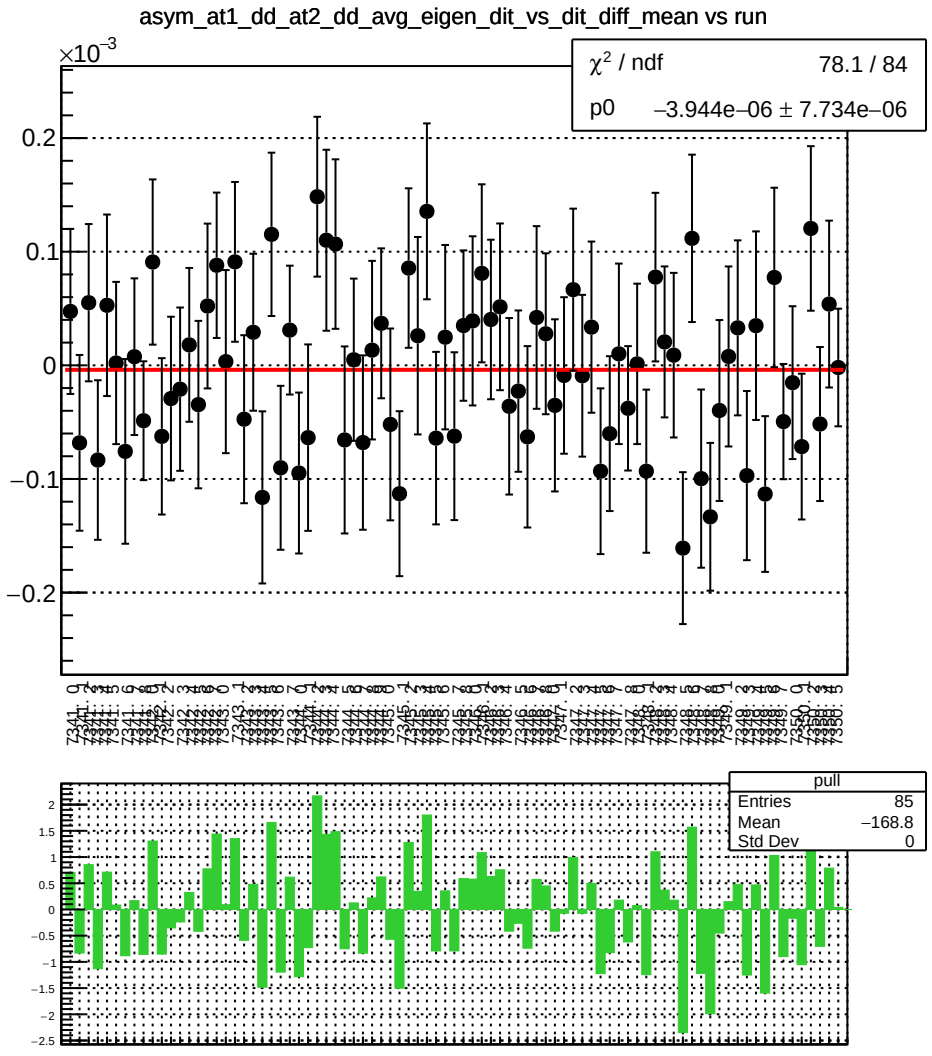

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.16 / 84
p0 0.2289 ± 0.4713
pull
Entries 85
Mean −662
Std Dev 0
pull1D
Entries 85
Mean −0.003897
Std Dev 0.9085

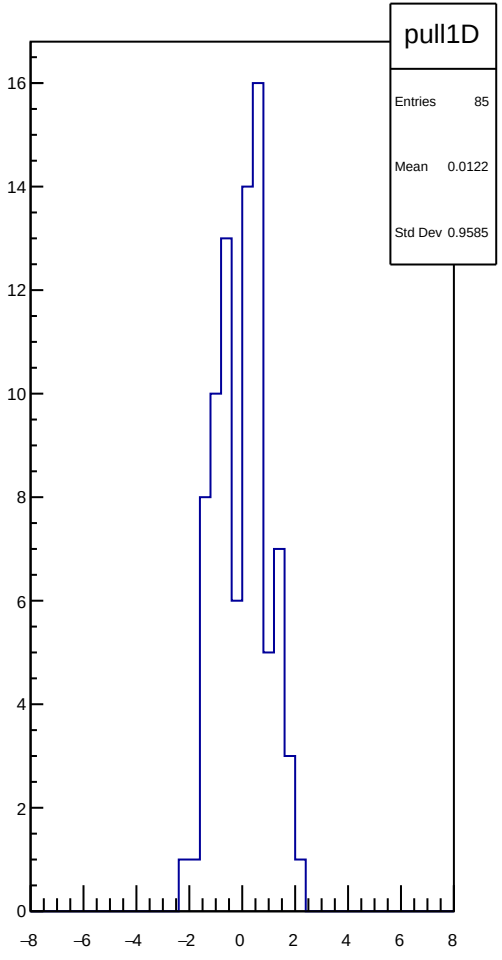

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.243e+04 / 84
p0 418.1 ± 0.3332
750
700
650
600
550
500
450
400
350
300

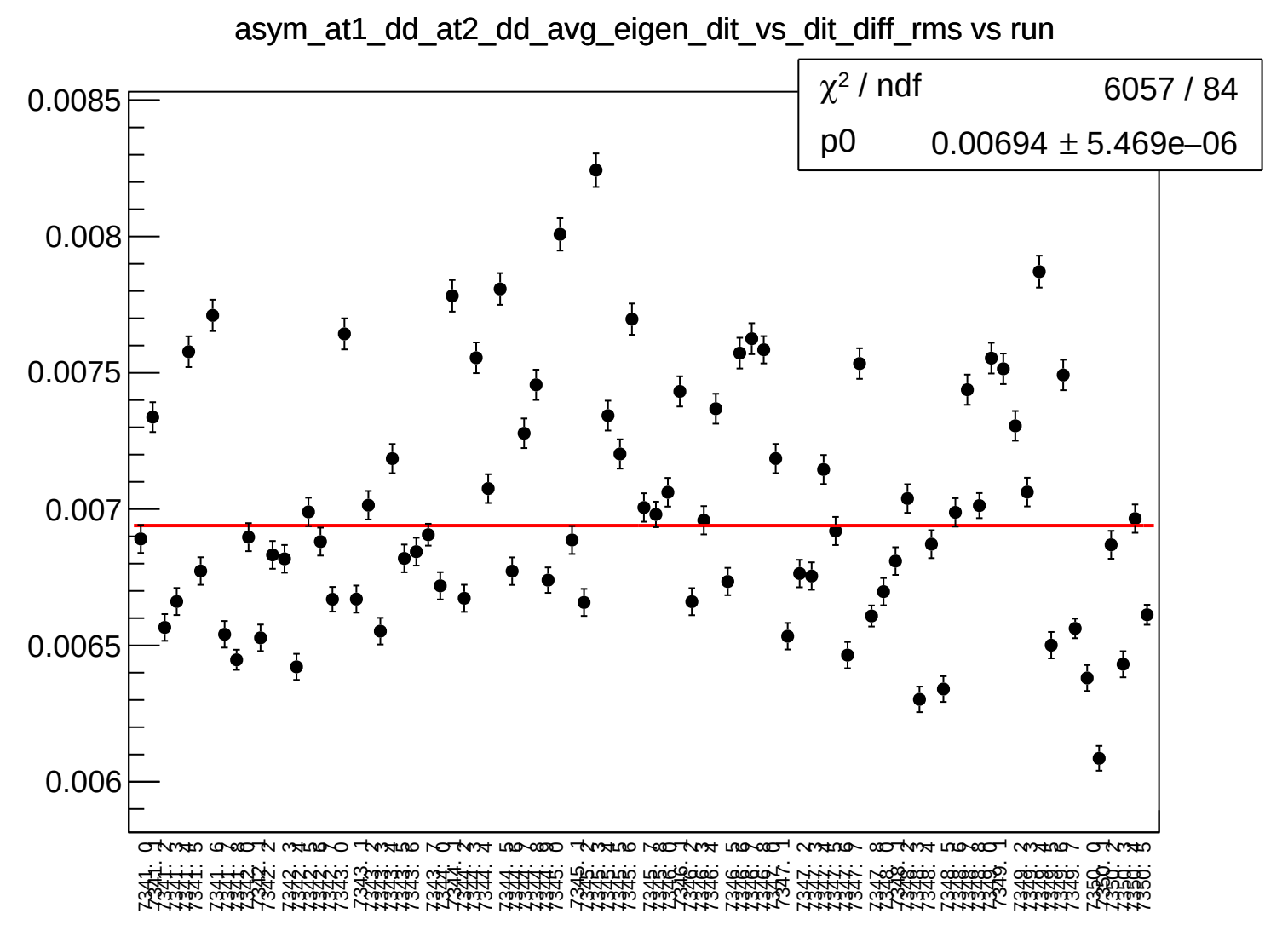

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.16 / 84
p0 0.2289 ± 0.4713
pull
Entries 85
Mean −662
Std Dev 0

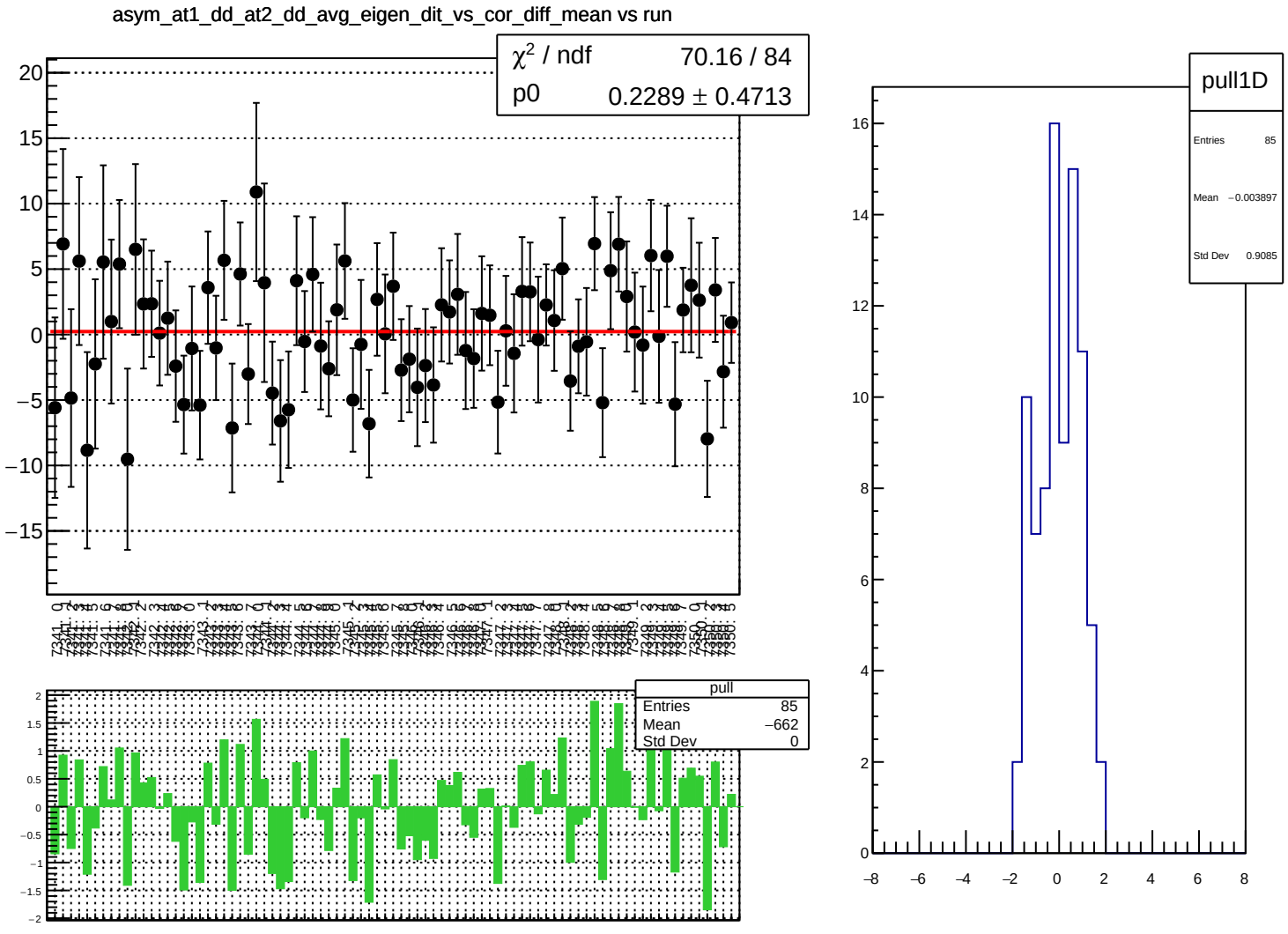

pull1D
Entries 85
Mean −0.003897
Std Dev 0.9085

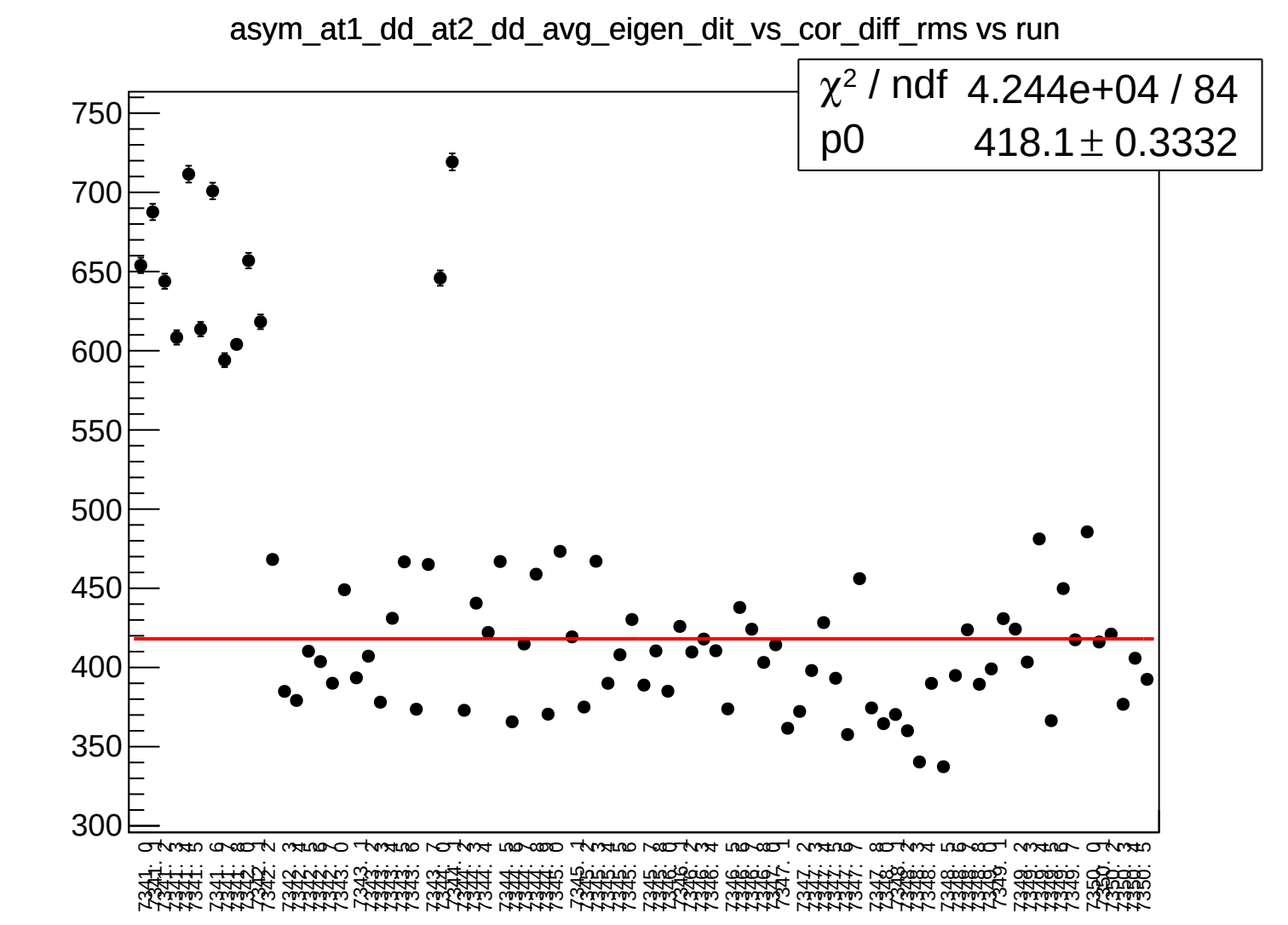

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.243e+04 / 84
p0 418.1 ± 0.3332
750
700
650
600
550
500
450
400
350
300

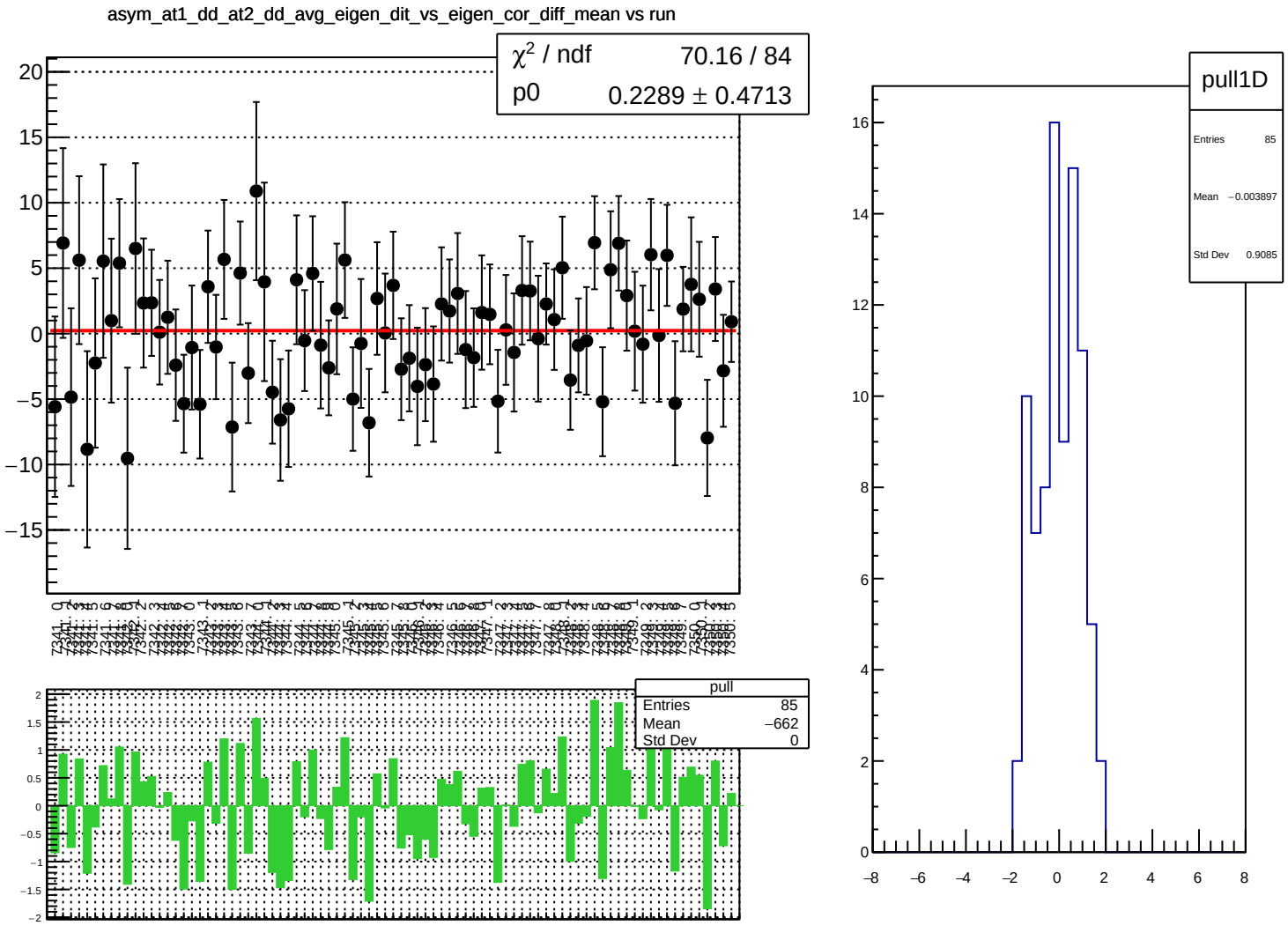

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 78.1 / 84
p0 −3.944e−06 ± 7.734e−06
pull
Entries 85
Mean −168.8
Std Dev 0

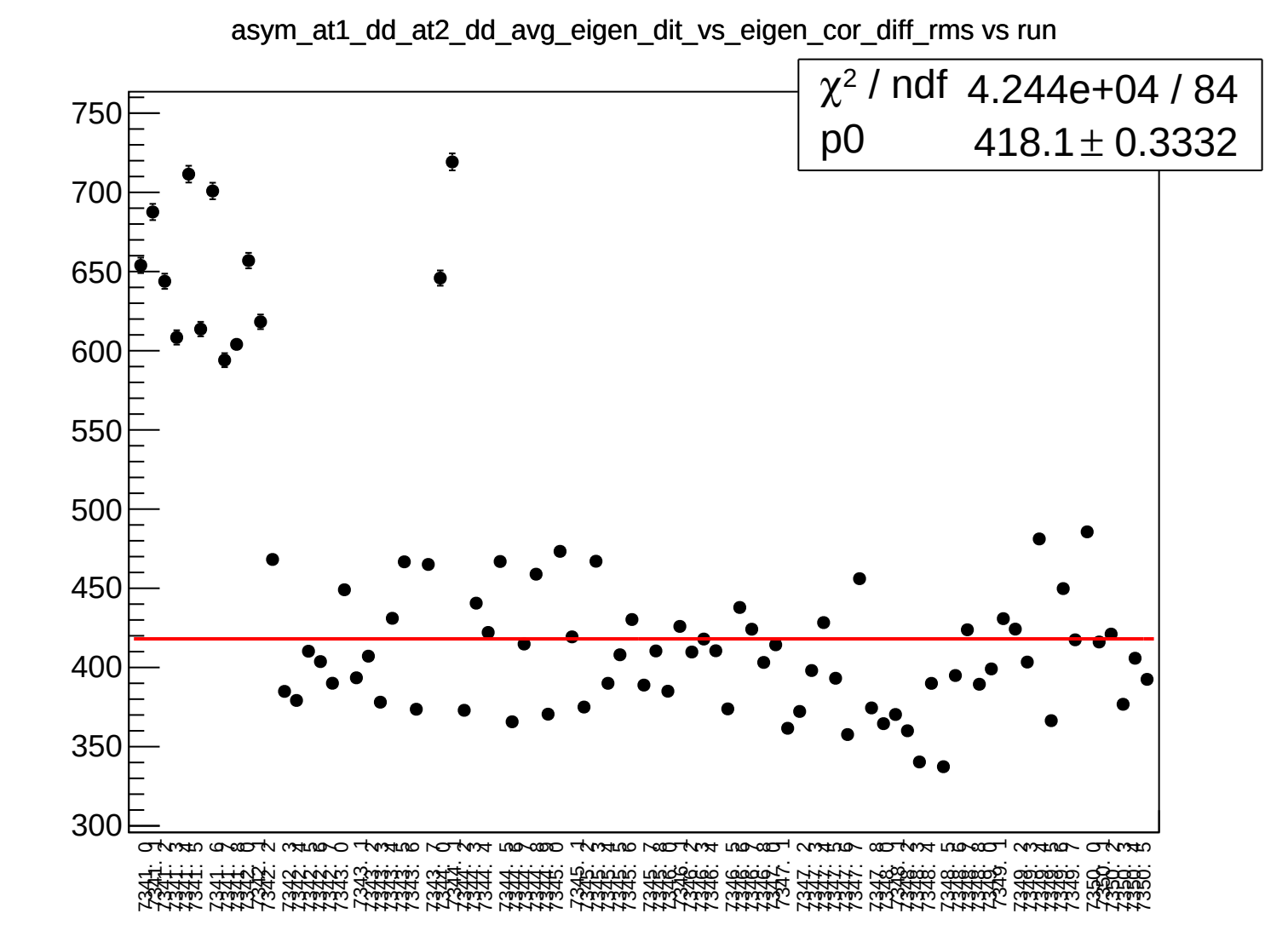

pull1D
Entries 85
Mean 0.0122
Std Dev 0.9585

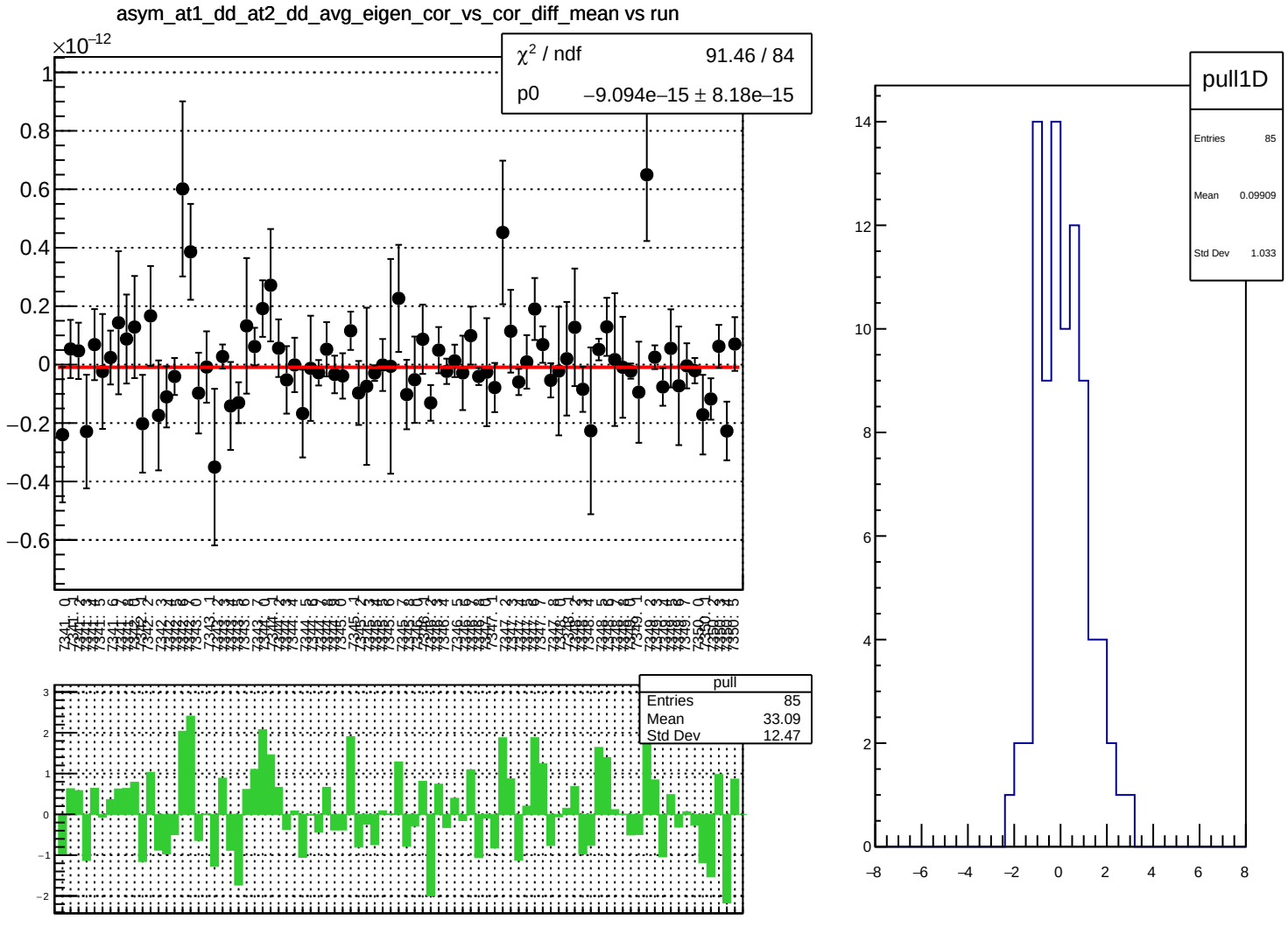

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6057 / 84
p0 0.00694 ± 5.469e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006

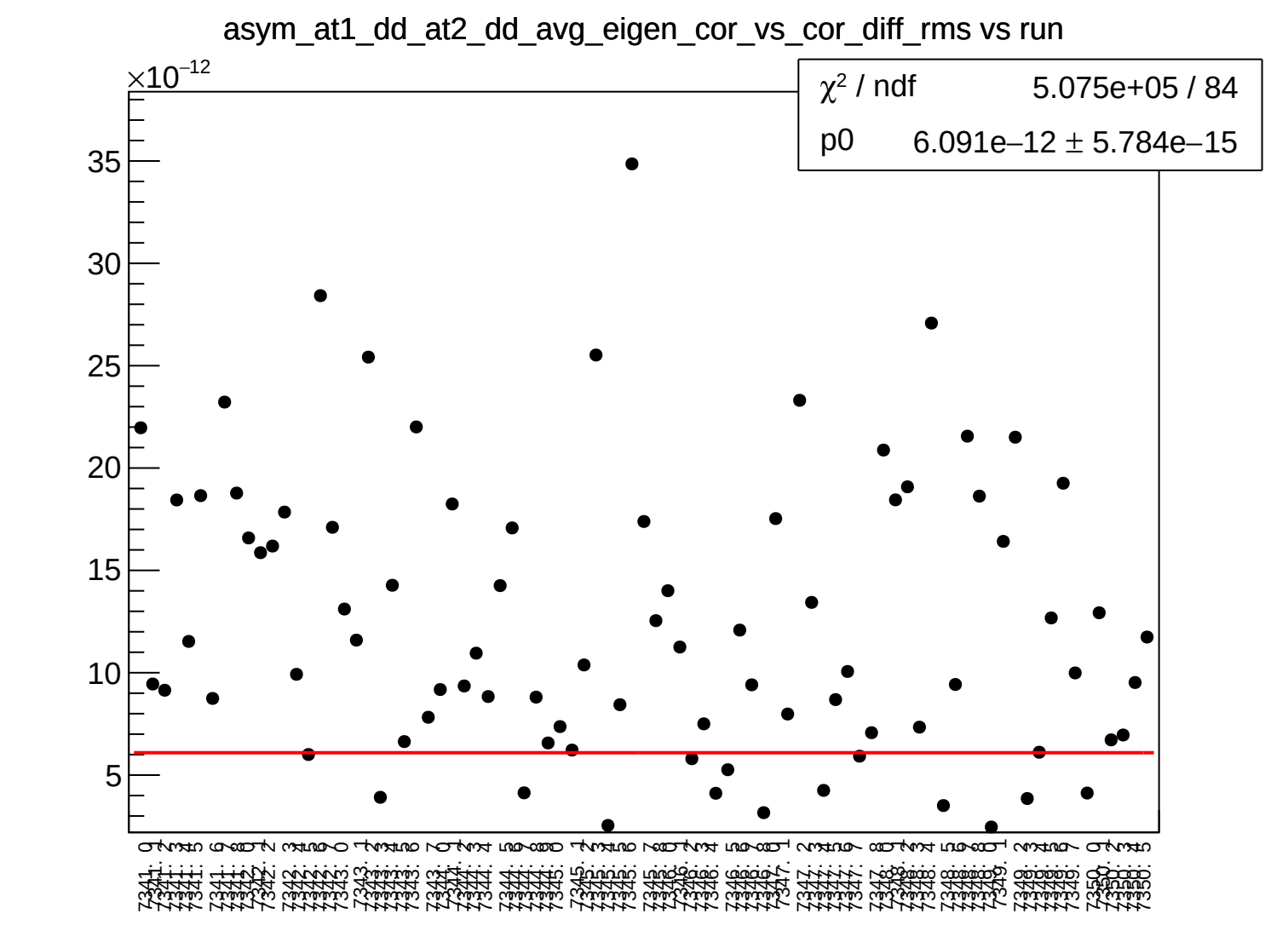

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.16 / 84
p0 0.2289 ± 0.4713
pull
Entries 85
Mean −662
Std Dev 0
pull1D
Entries 85
Mean −0.003897
Std Dev 0.9085

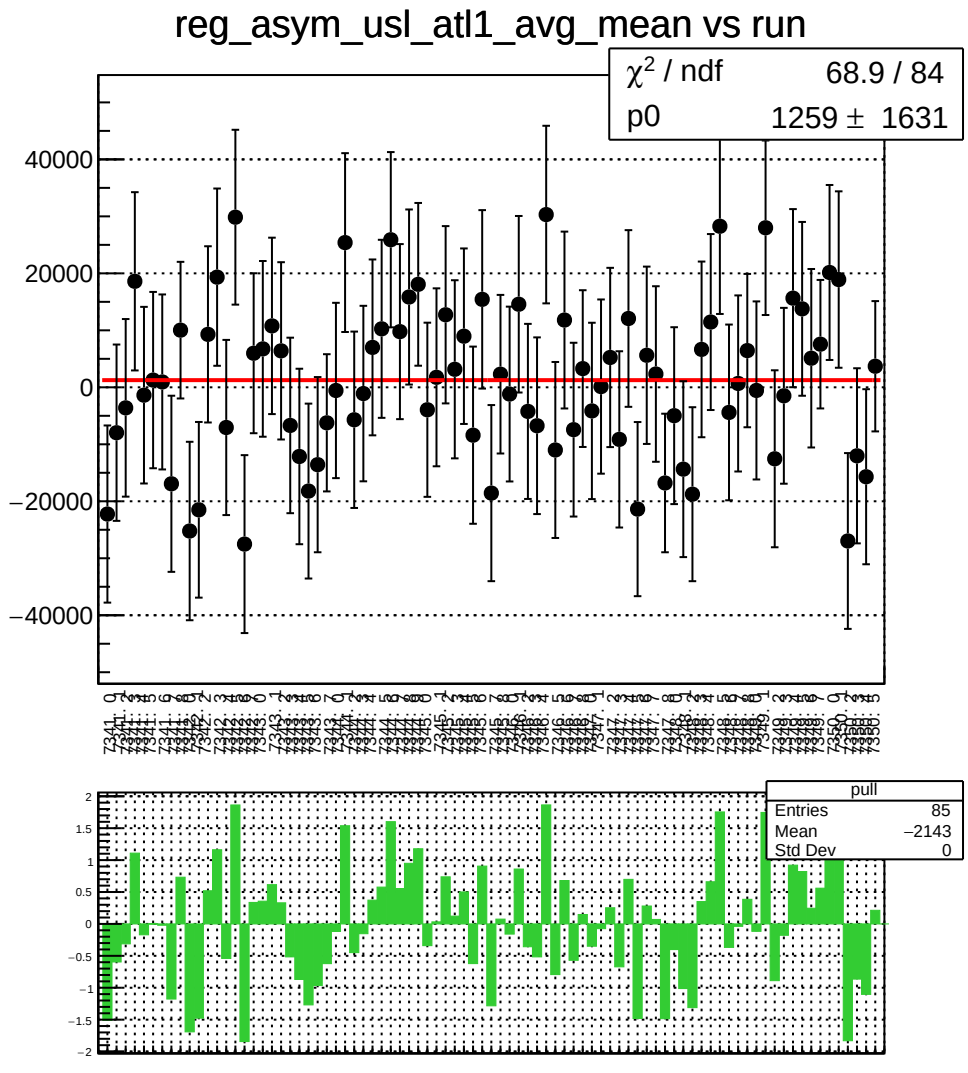

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.244e+04 / 84
p0 418.1 ± 0.3332
750
700
650
600
550
500
450
400
350
300

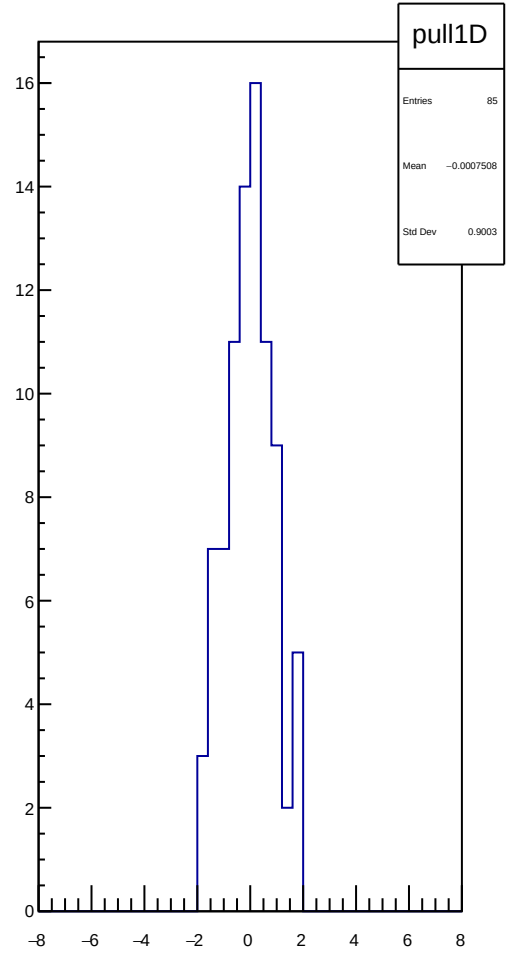

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.16 / 84
p0 0.2289 ± 0.4713
pull
Entries 85
Mean −662
Std Dev 0
pull1D
Entries 85
Mean −0.003897
Std Dev 0.9085

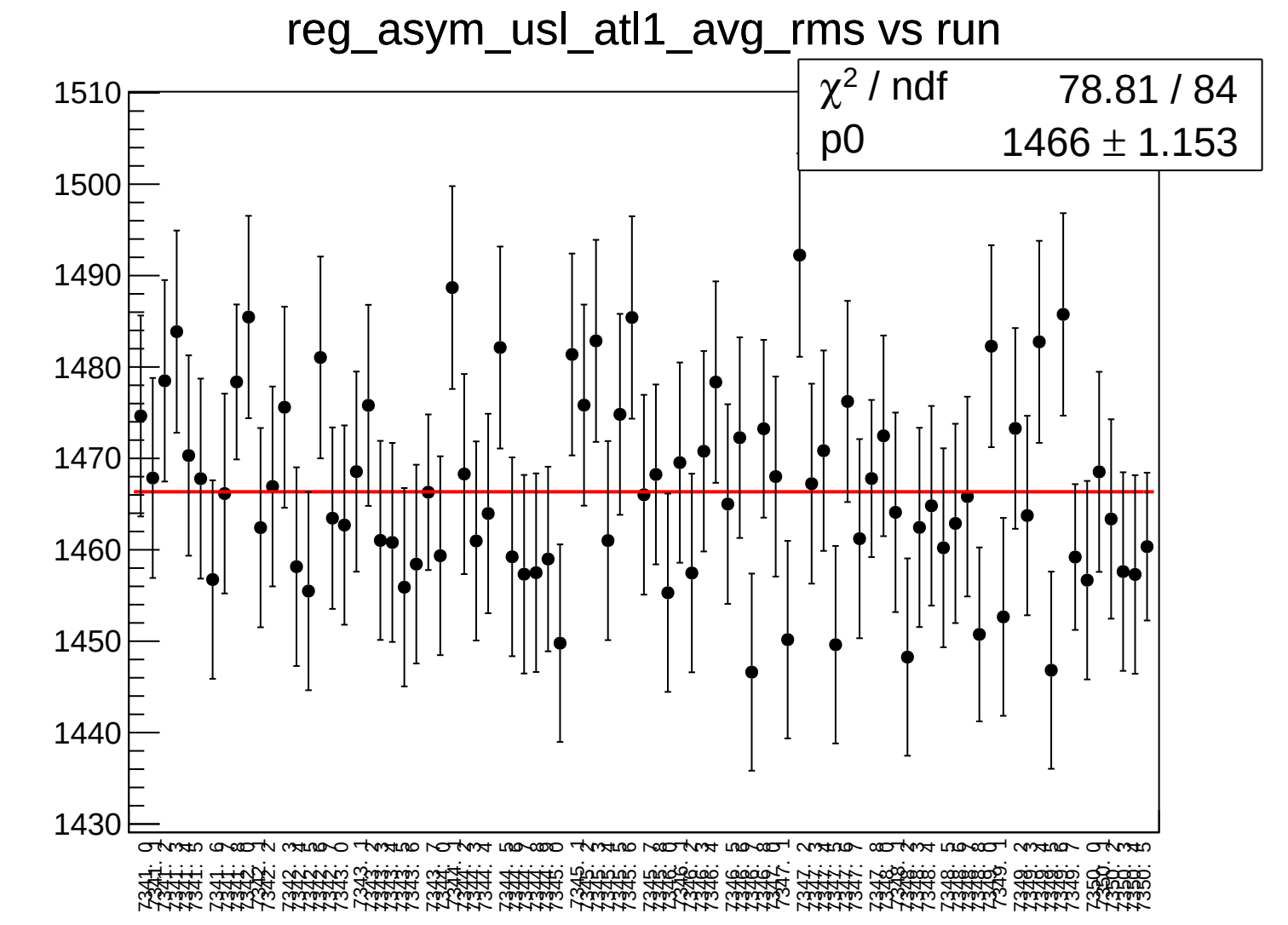

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.244e+04 / 84
p0 418.1 ± 0.3332
750
700
650
600
550
500
450
400
350
300

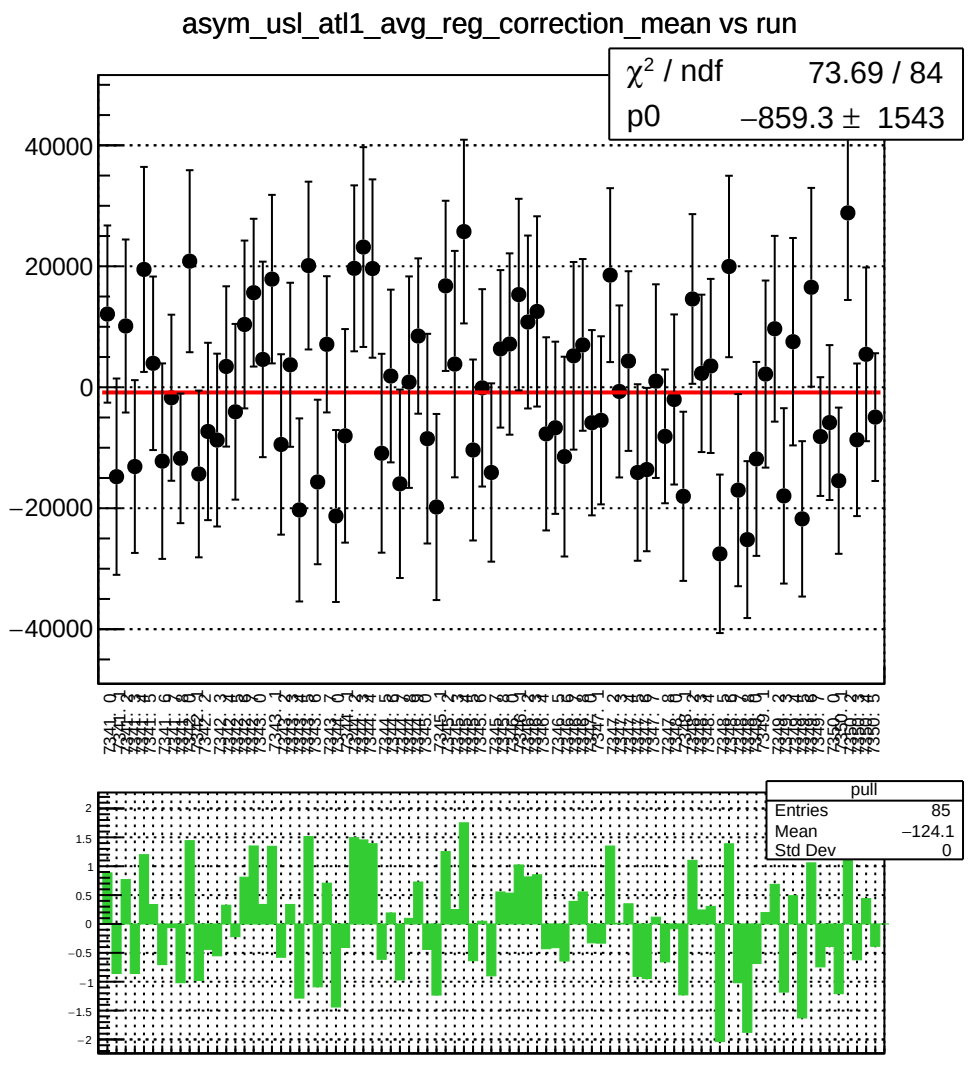

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.46 / 84
p0 −9.094e−15 ± 8.18e−15
pull
Entries 85
Mean 33.09
Std Dev 12.47
pull1D
Entries 85
Mean 0.09909
Std Dev 1.033

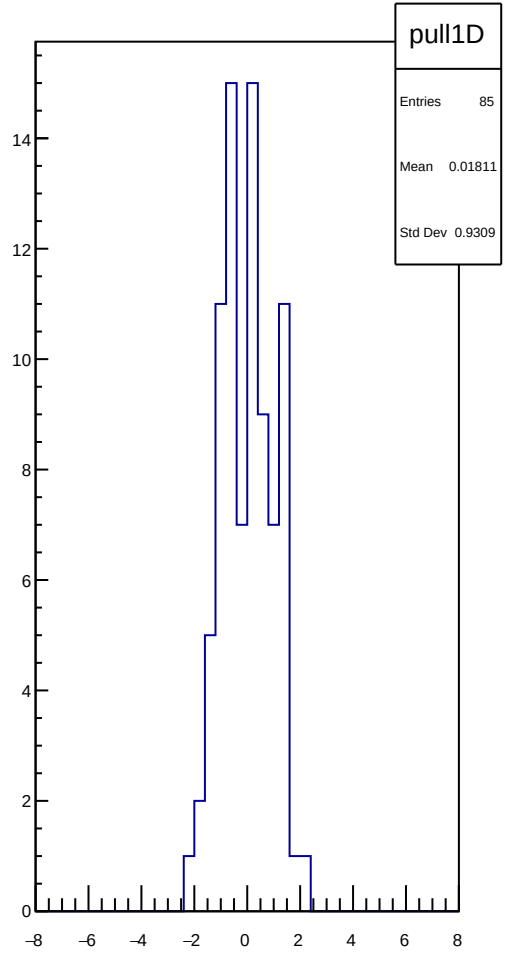

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.075e+05 / 84
p0 6.091e−12 ± 5.784e−15
35
30
25
20
15
10
5

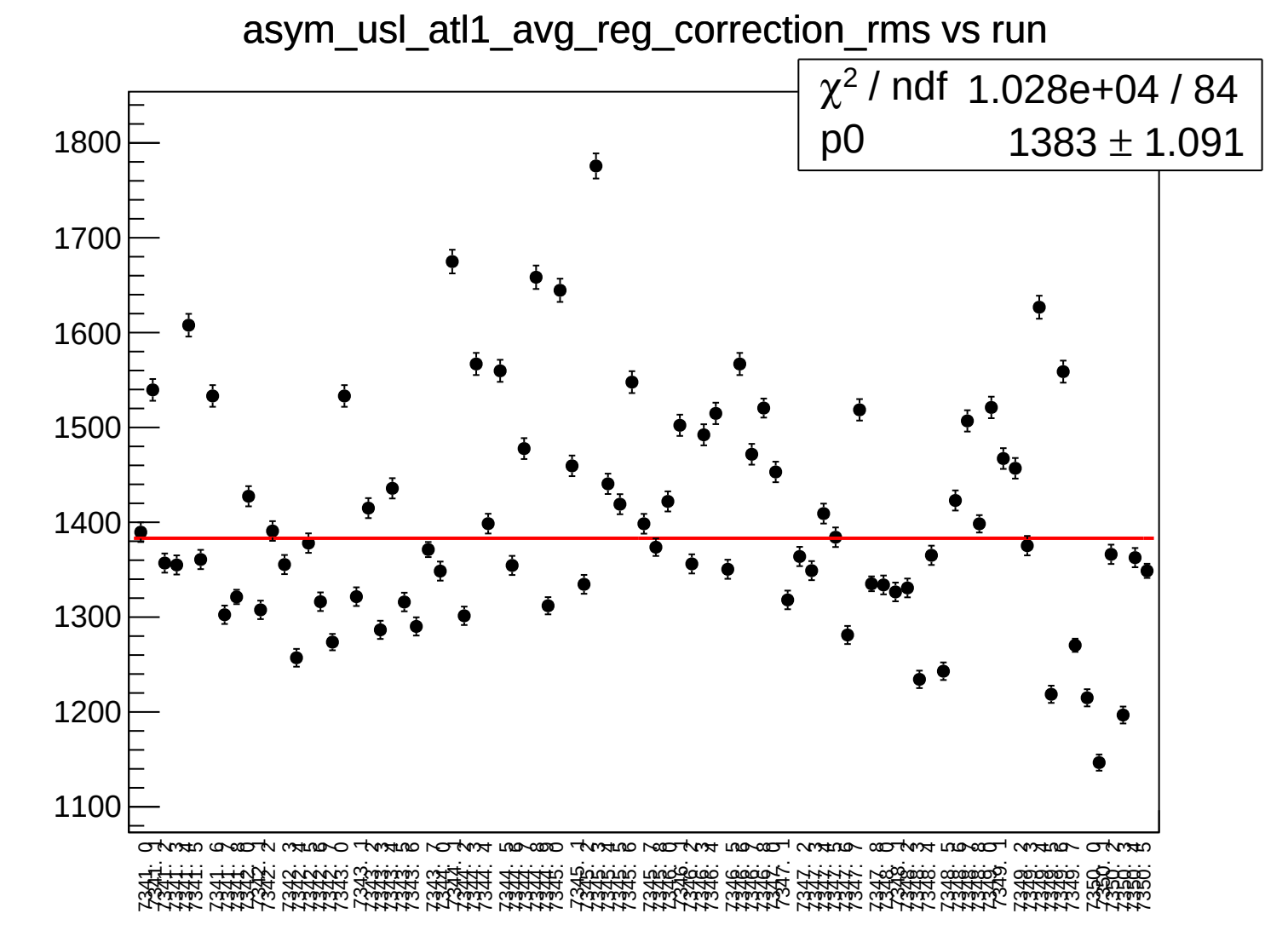

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 68.9 / 84
p0 1259 ± 1631
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −2143
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

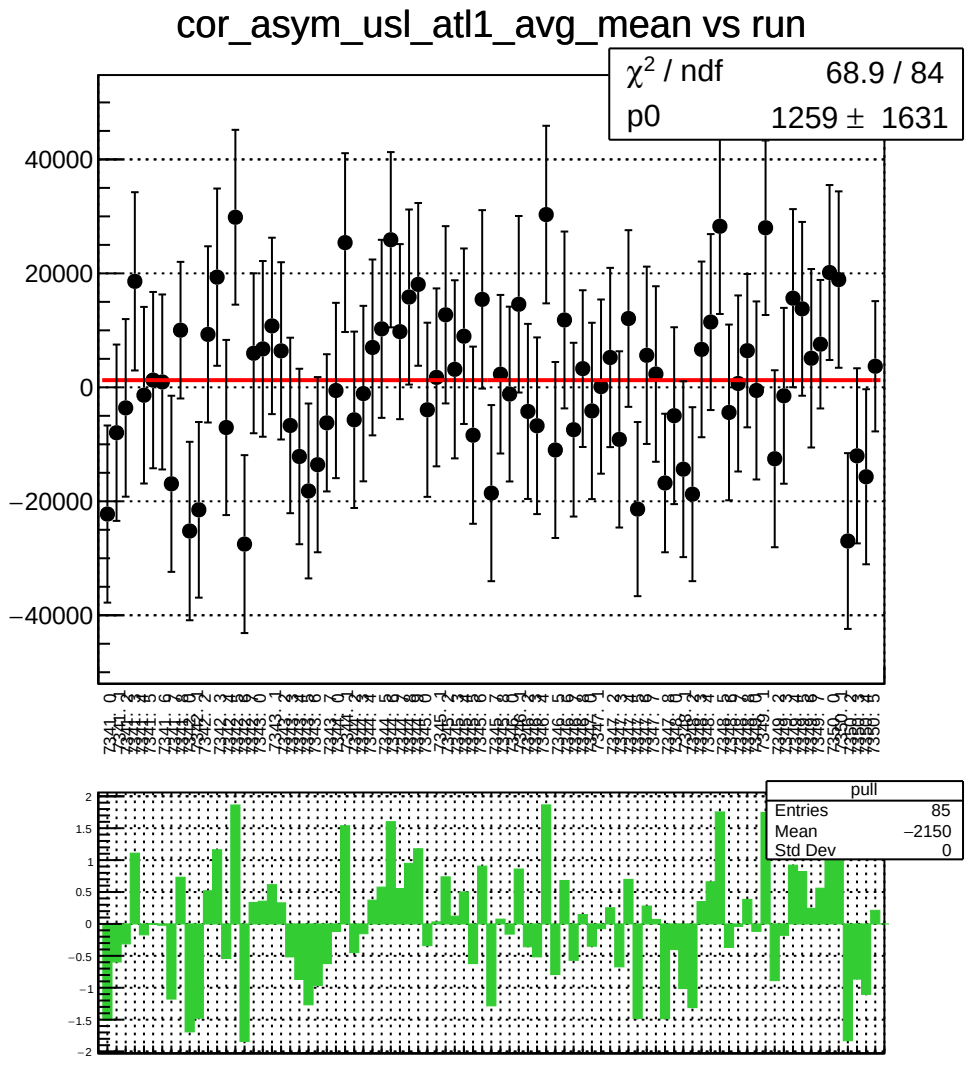

pull1D
Entries 85
Mean −0.0007508
Std Dev 0.9003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

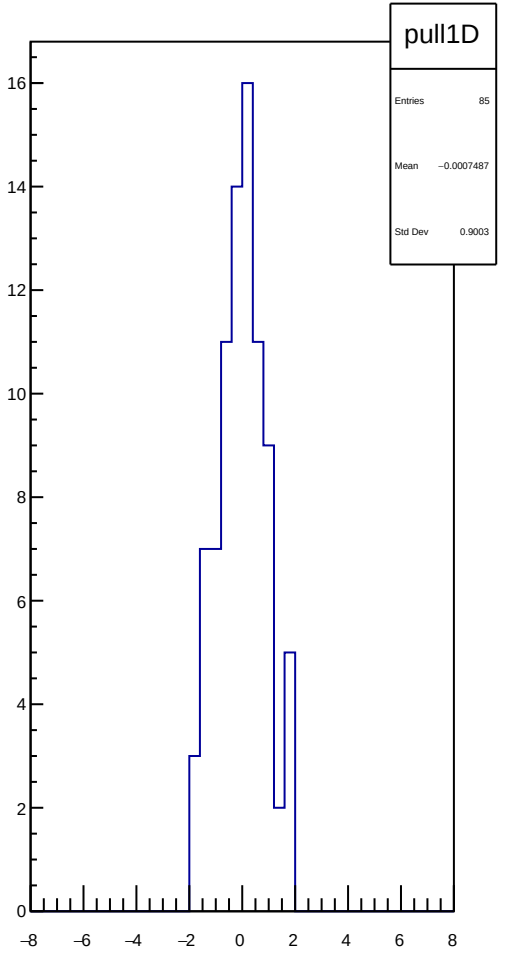

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 78.81 / 84
p0 1466 ± 1.153
1510
1500
1490
1480
1470
1460
1450
1440
1430

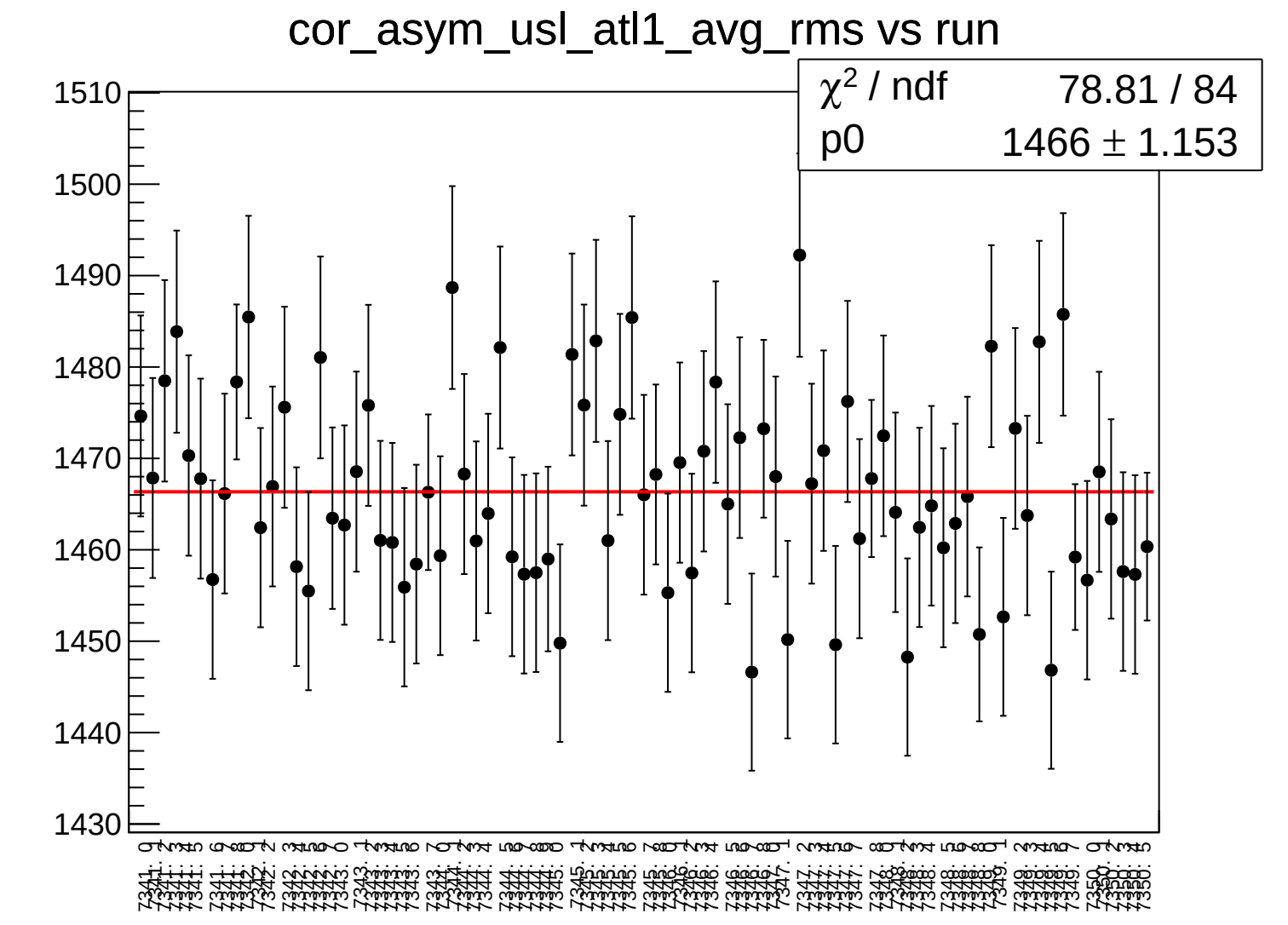

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 73.69 / 84
p0 −859.3 ± 1543
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −124.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

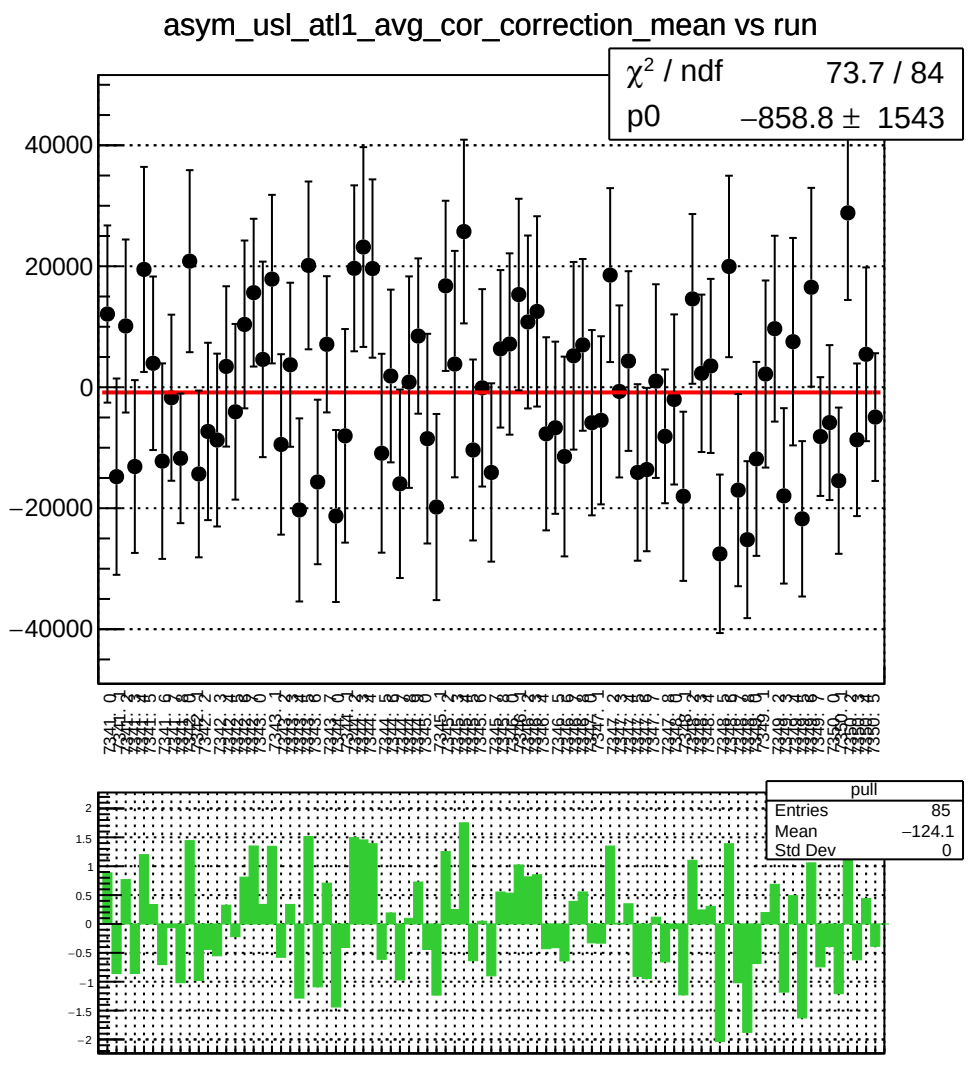

pull1D
Entries 85
Mean 0.01811
Std Dev 0.9309
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

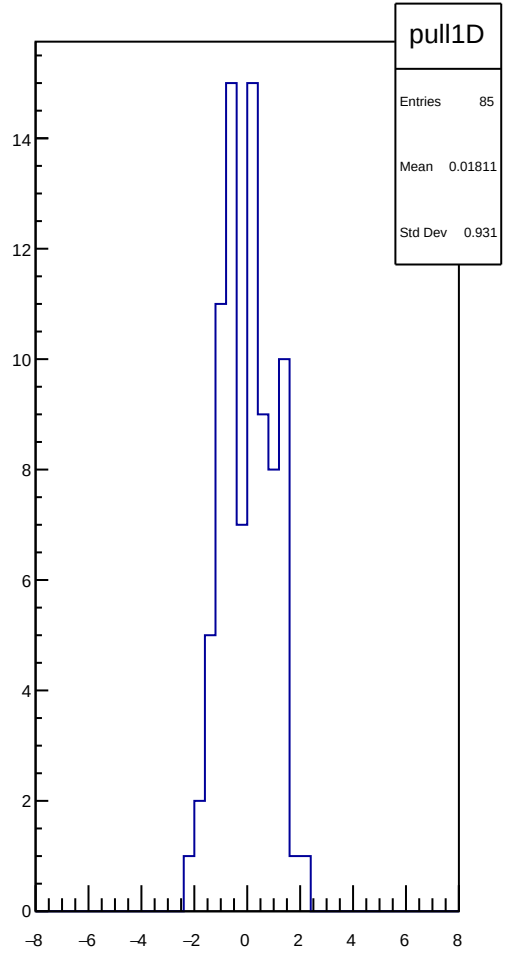

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.028e+04 / 84
p0 1383 ± 1.091
1800
1700
1600
1500
1400
1300
1200
1100

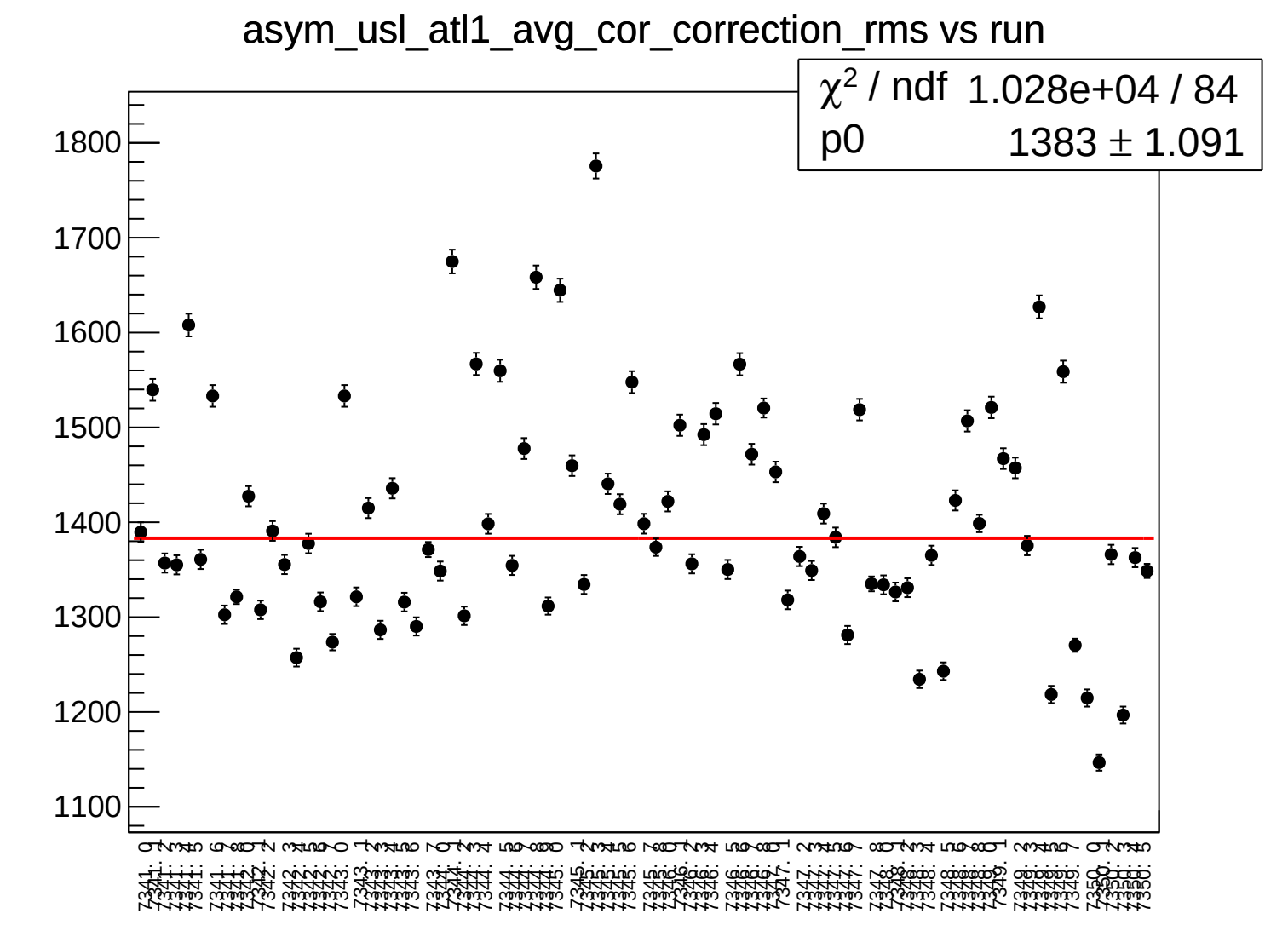

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 68.9 / 84
p0 1259 ± 1631
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −2150
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

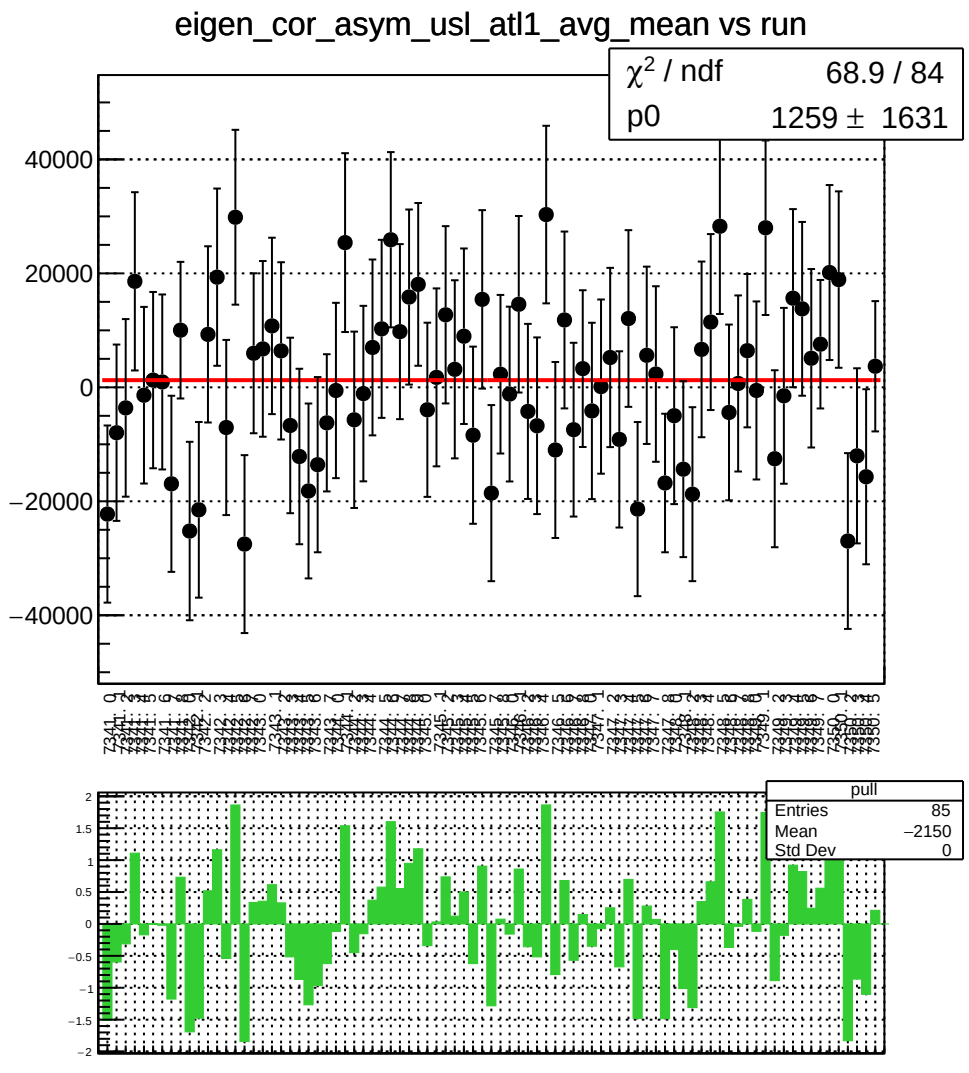

pull1D
Entries 85
Mean −0.0007487
Std Dev 0.9003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

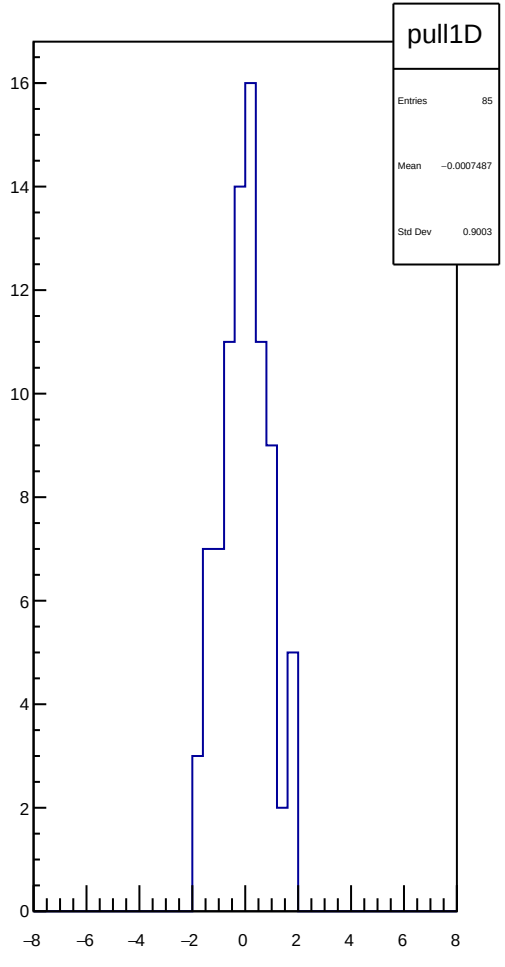

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 78.81 / 84
p0 1466 ± 1.153
1510
1500
1490
1480
1470
1460
1450
1440
1430

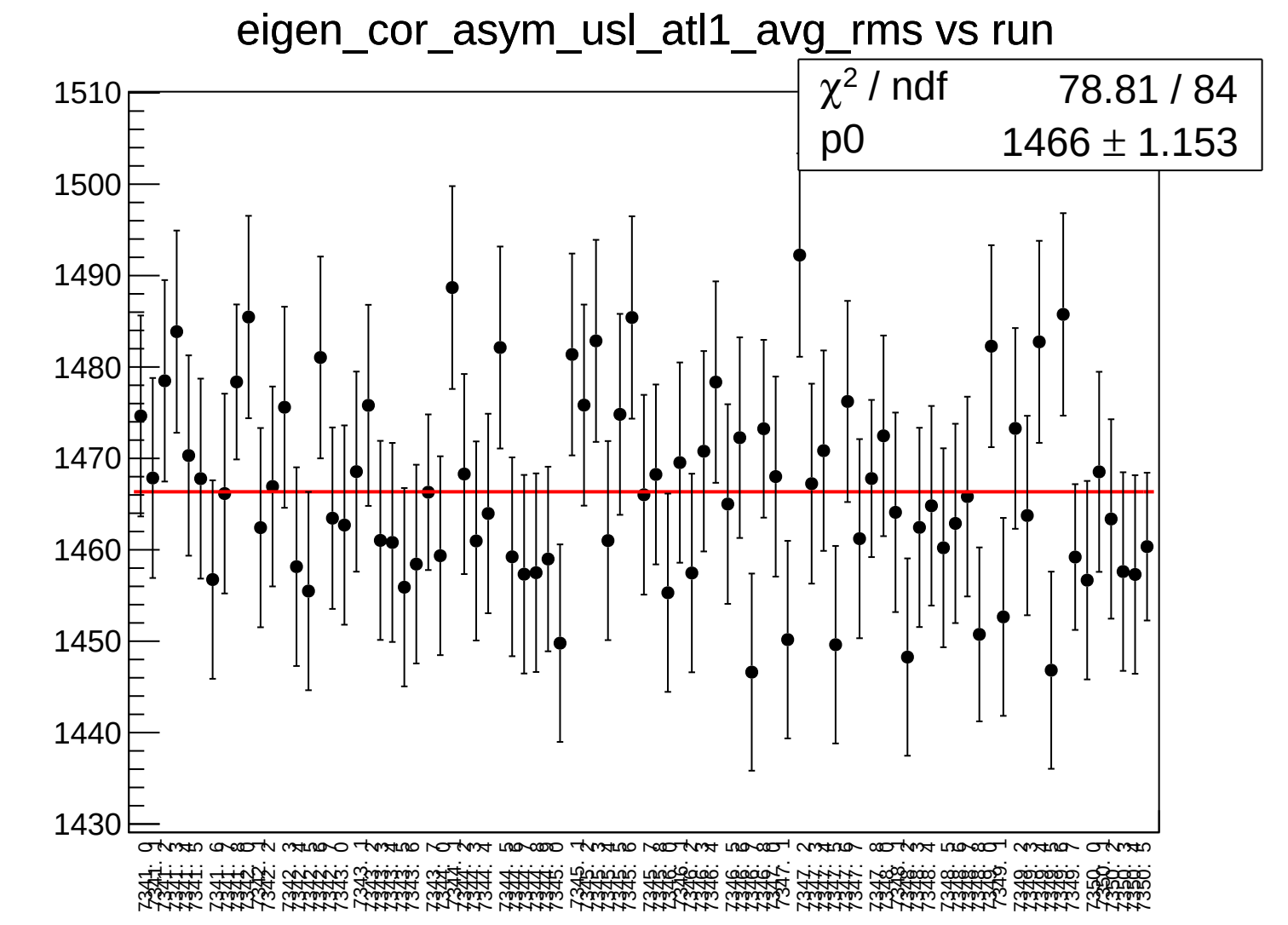

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 73.7 / 84
p0 −858.8 ± 1543
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −124.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

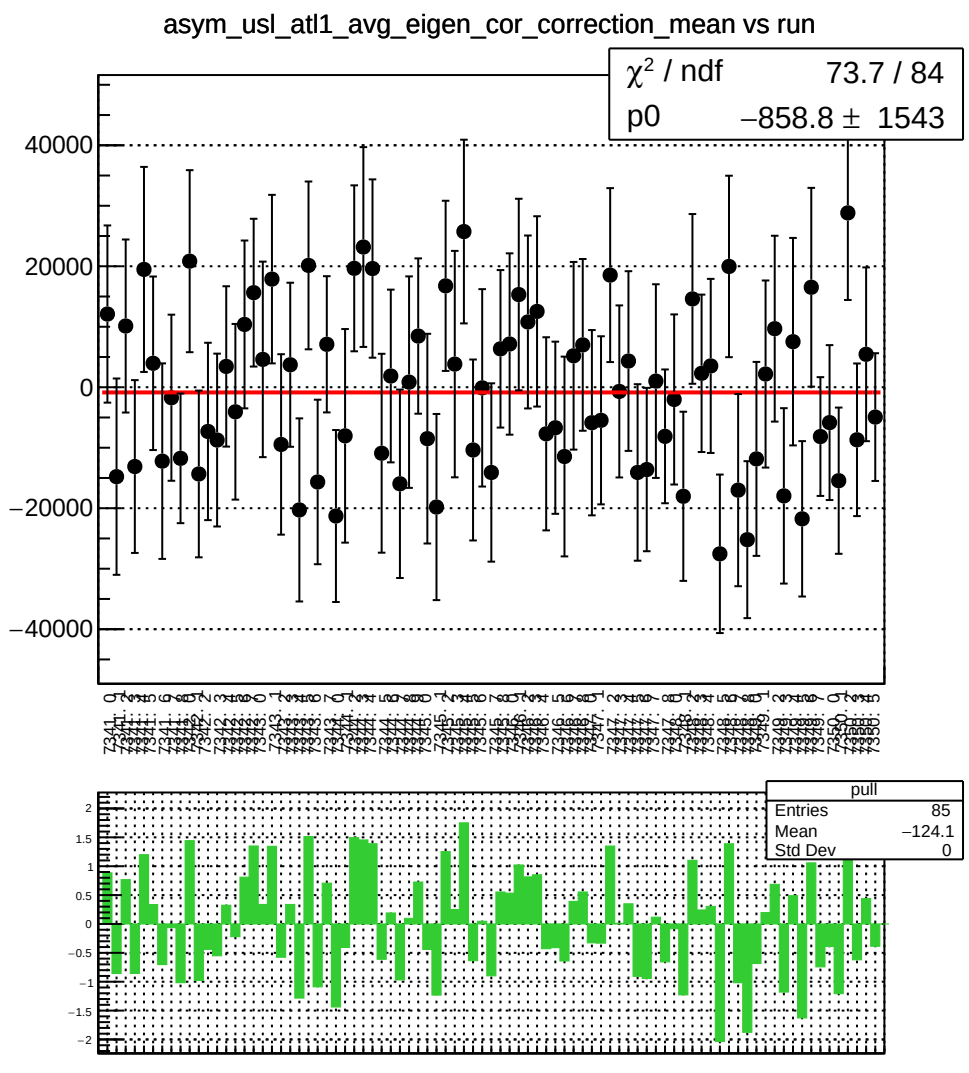

pull1D
Entries 85
Mean 0.01811
Std Dev 0.931
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

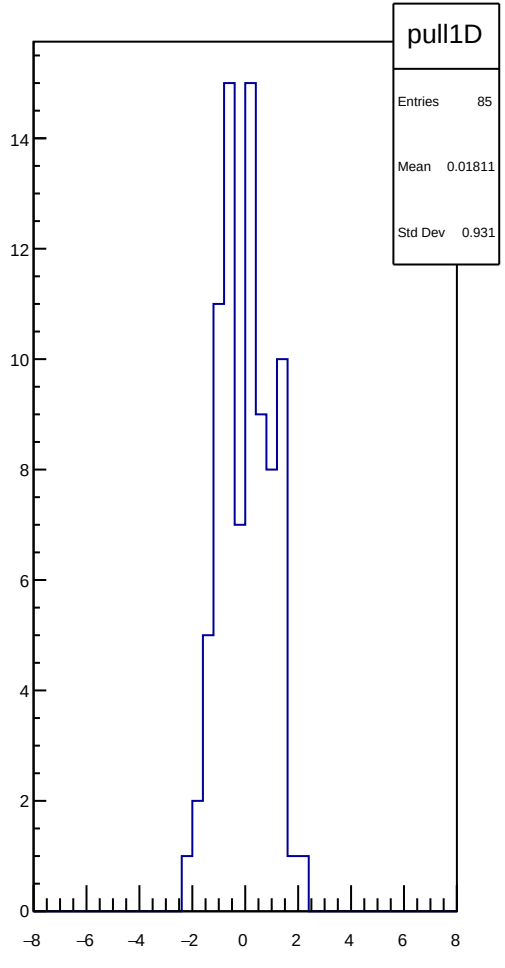

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.028e+04 / 84
p0 1383 ± 1.091
1800
1700
1600
1500
1400
1300
1200
1100

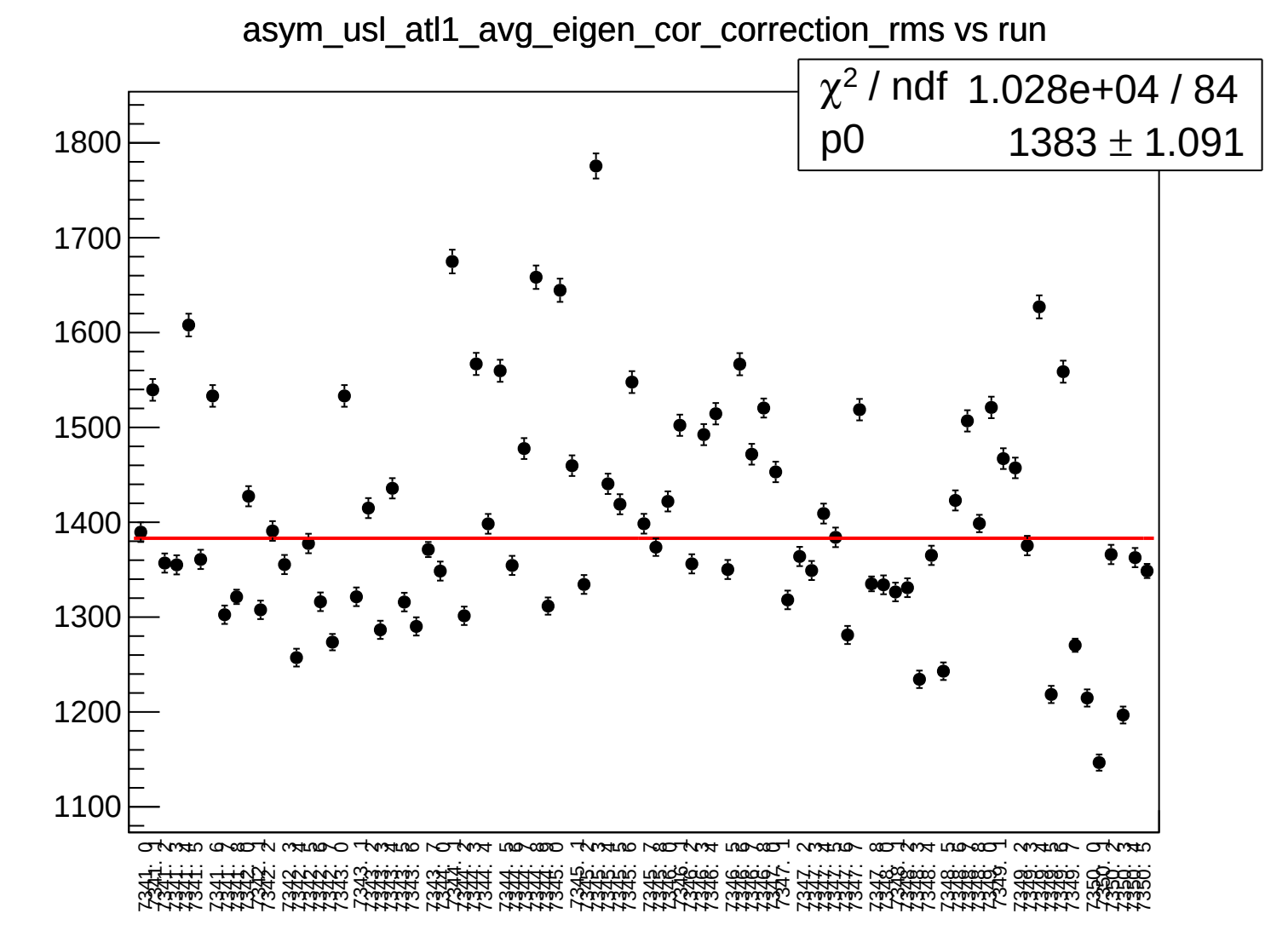

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 68.9 / 84
p0 1259 ± 1631
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −2150
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

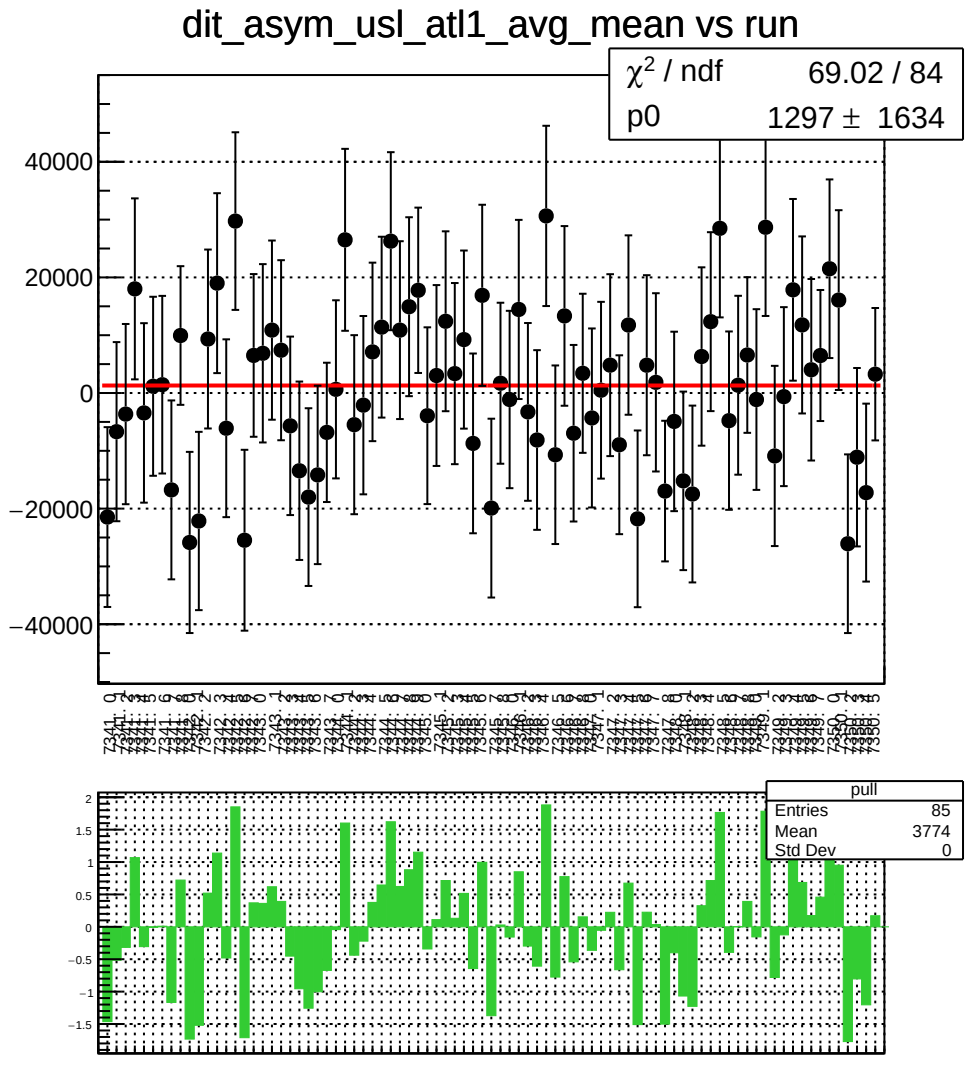

pull1D
Entries 85
Mean −0.0007487
Std Dev 0.9003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

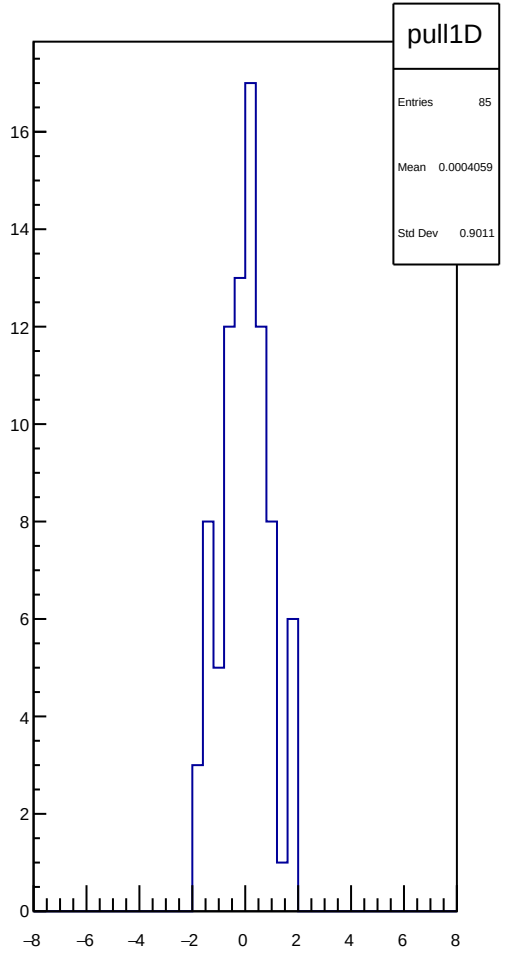

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 78.81 / 84
p0 1466 ± 1.153
1510
1500
1490
1480
1470
1460
1450
1440
1430

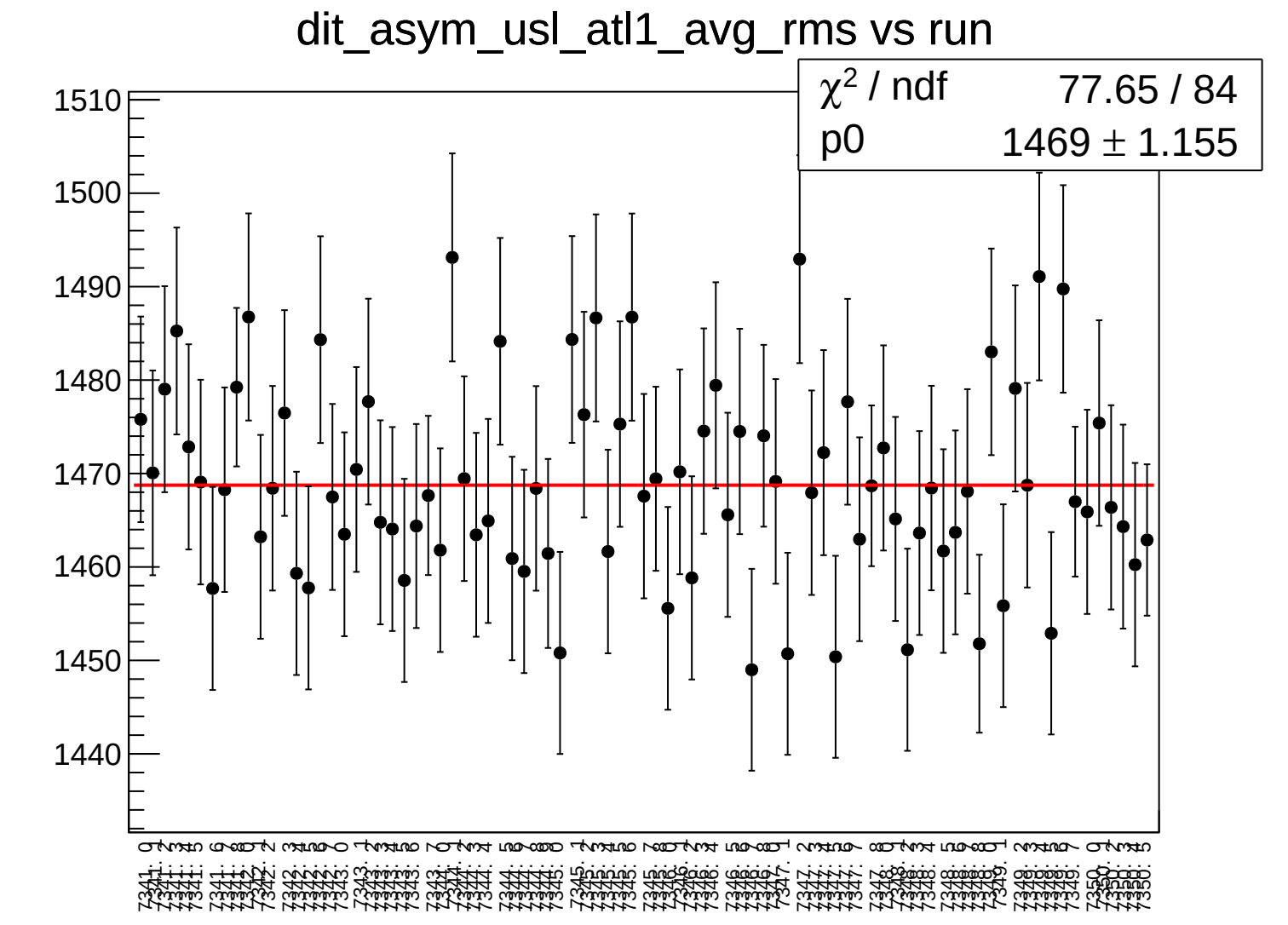

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.7 / 84
p0 −858.8 ± 1543
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −124.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

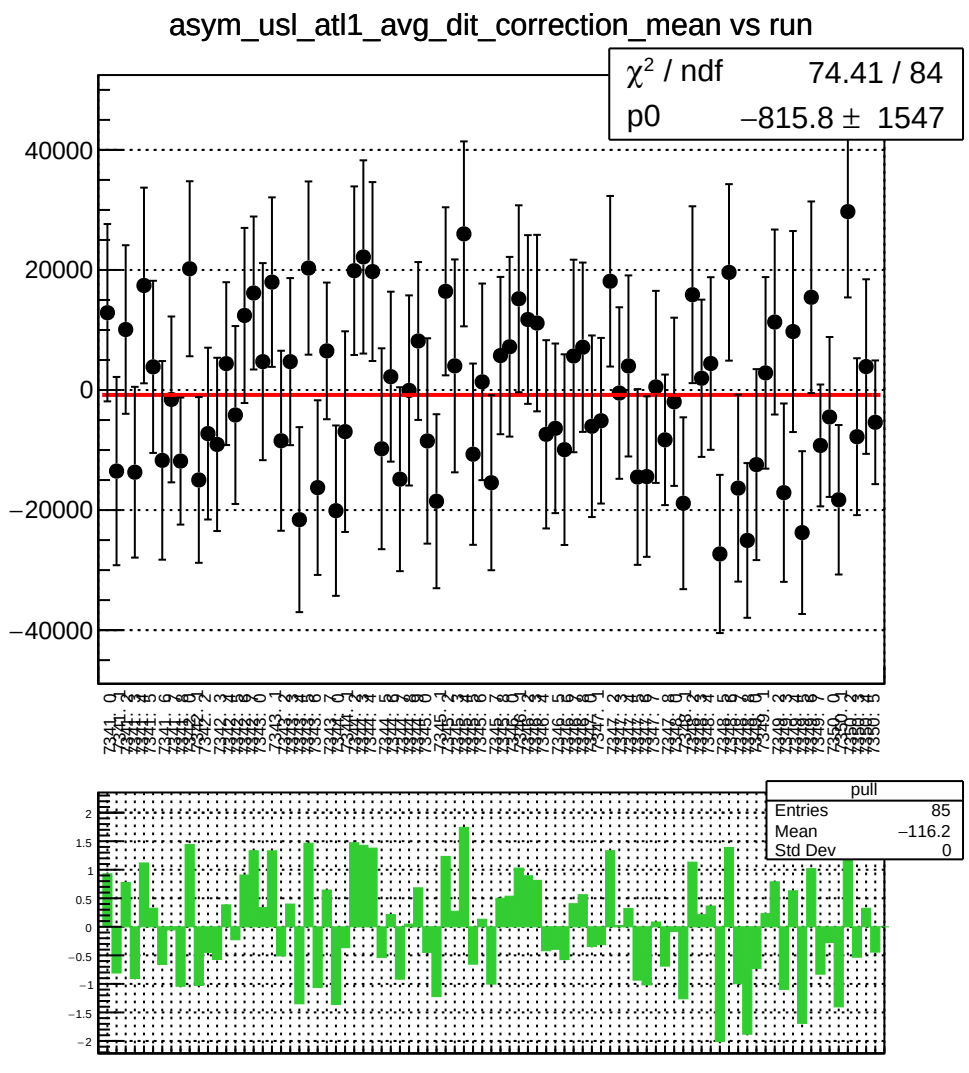

pull1D
Entries 85
Mean 0.01811
Std Dev 0.931
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

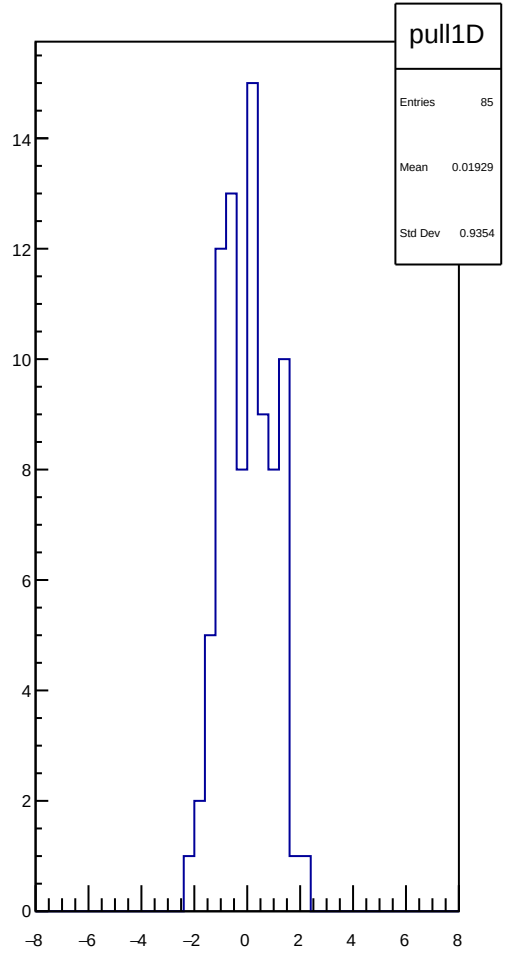

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.028e+04 / 84
p0 1383 ± 1.091
1800
1700
1600
1500
1400
1300
1200
1100

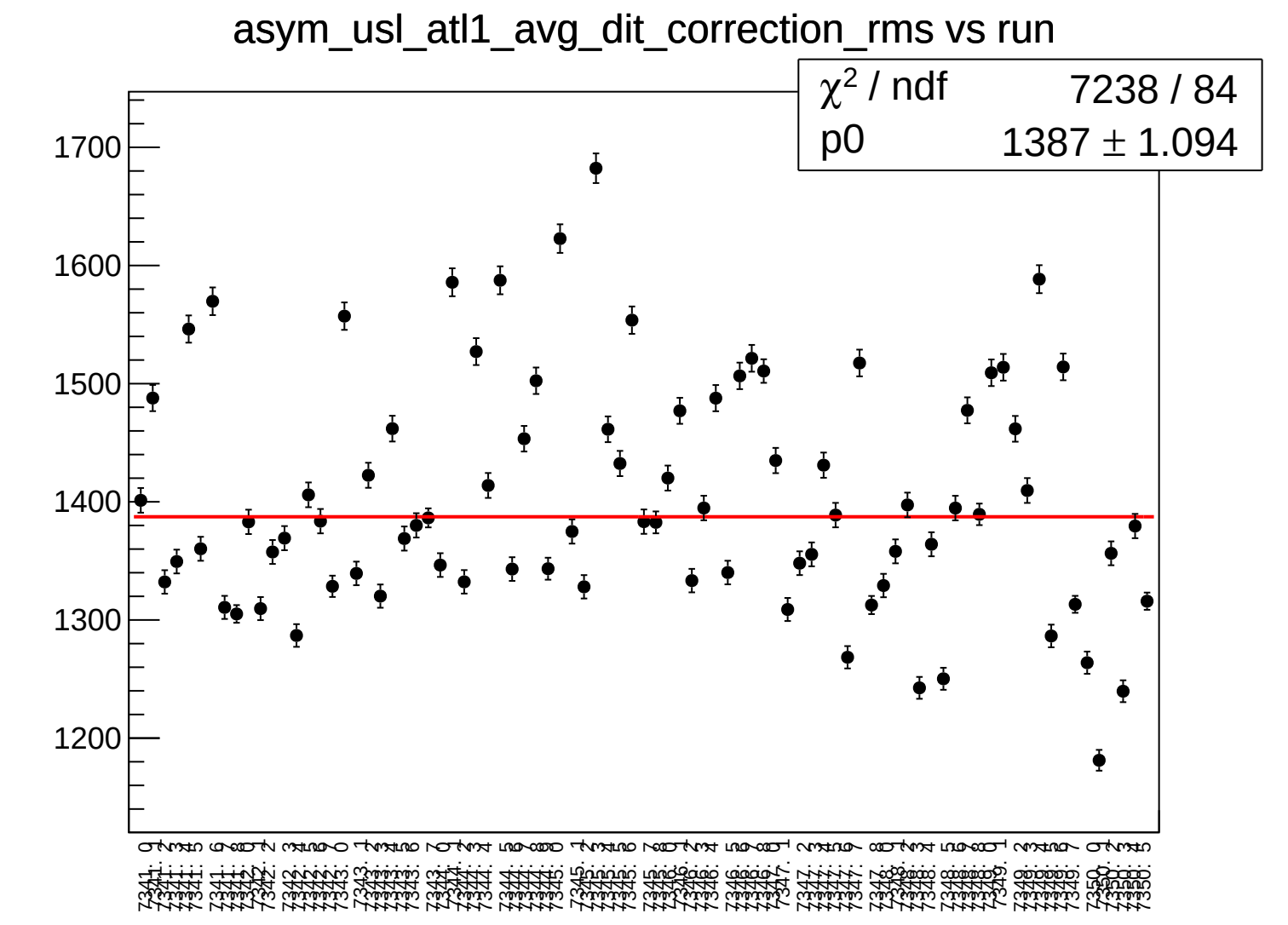

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 69.02 / 84
p0 1297 ± 1634
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 3774
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

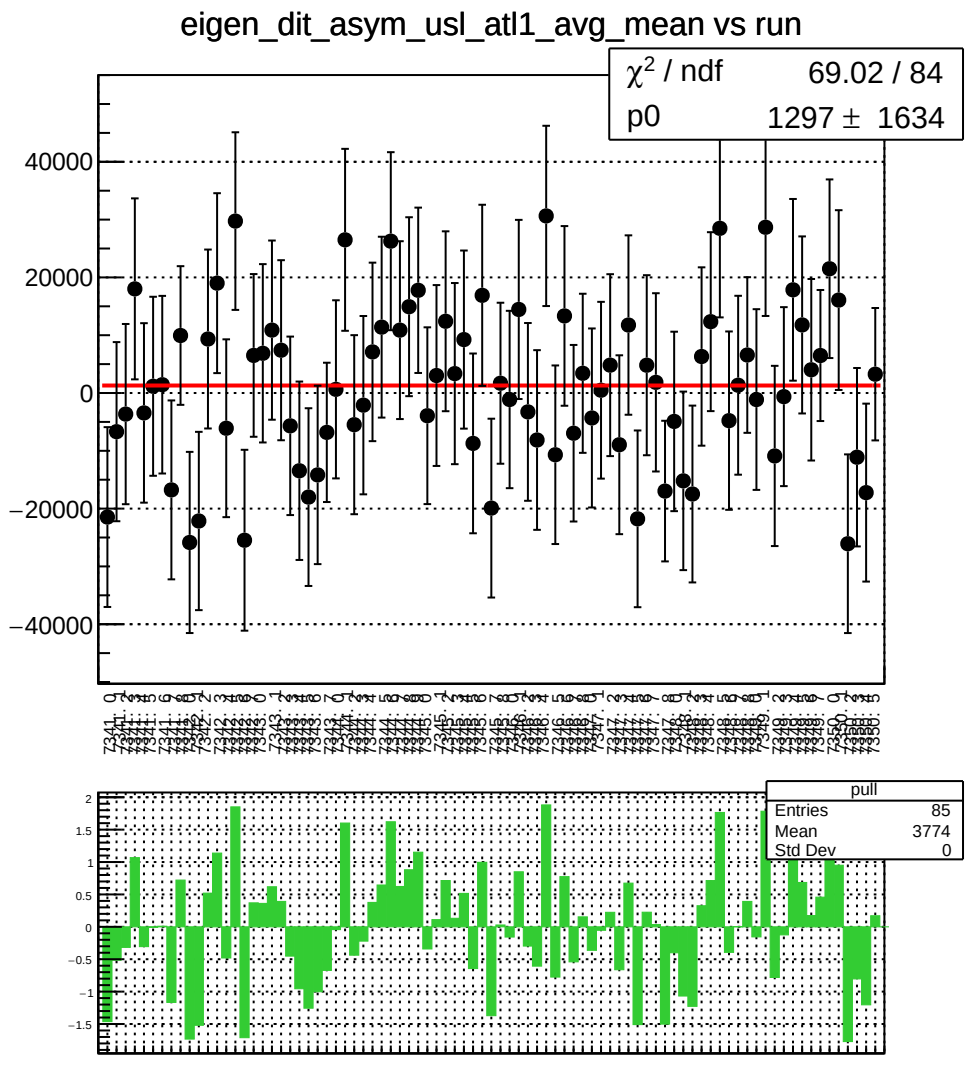

pull1D
Entries 85
Mean 0.0004059
Std Dev 0.9011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

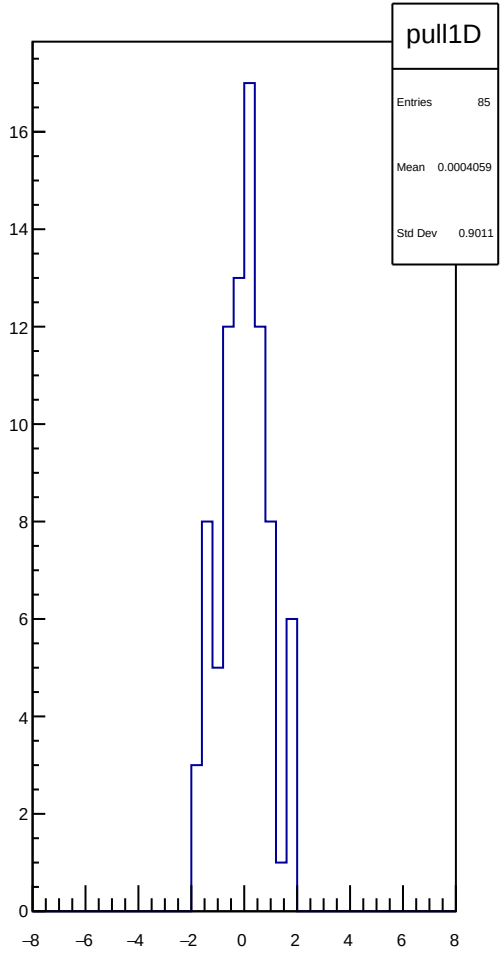

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 77.65 / 84
p0 1469 ± 1.155
1510
1500
1490
1480
1470
1460
1450
1440

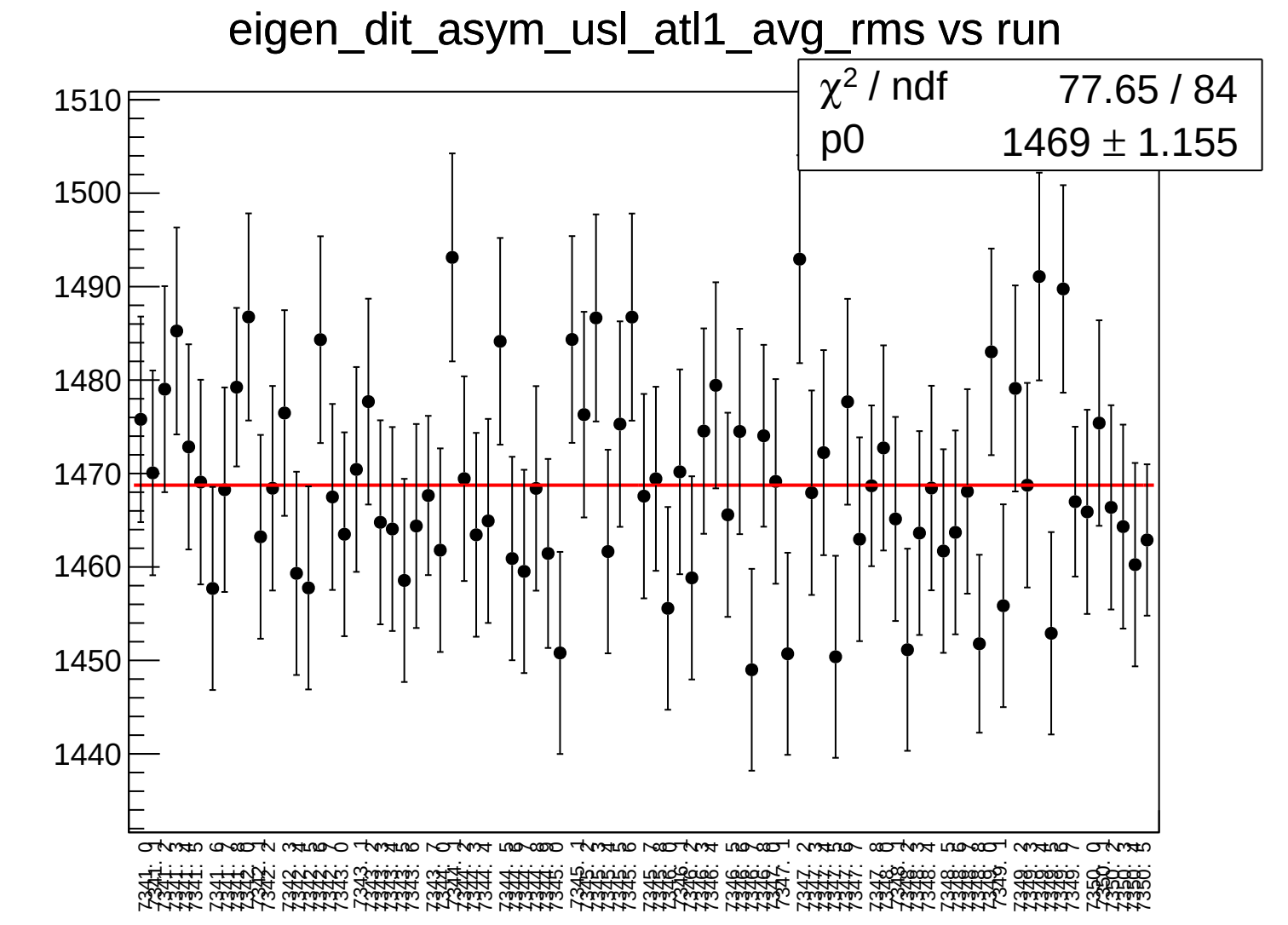

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 74.41 / 84
p0 −815.8 ± 1547
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −116.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

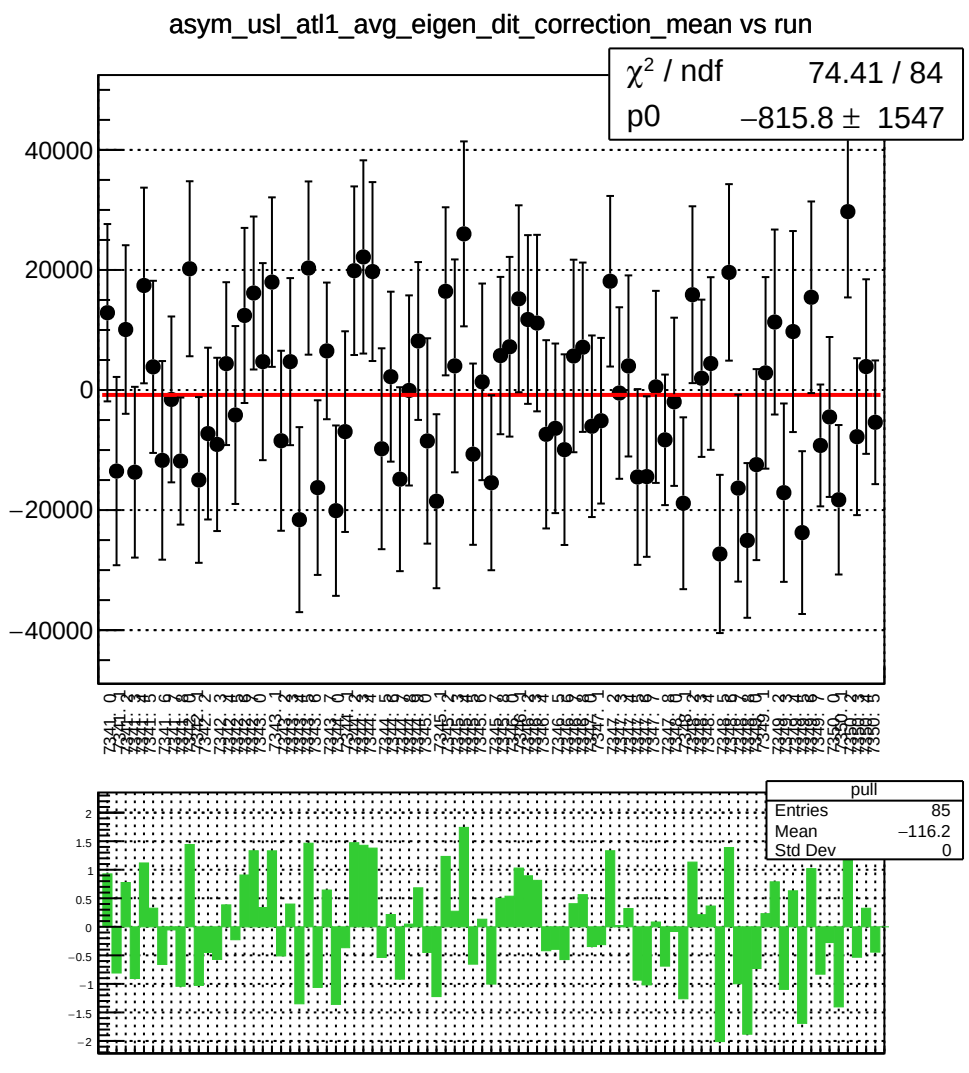

pull1D
Entries 85
Mean 0.01929
Std Dev 0.9354
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

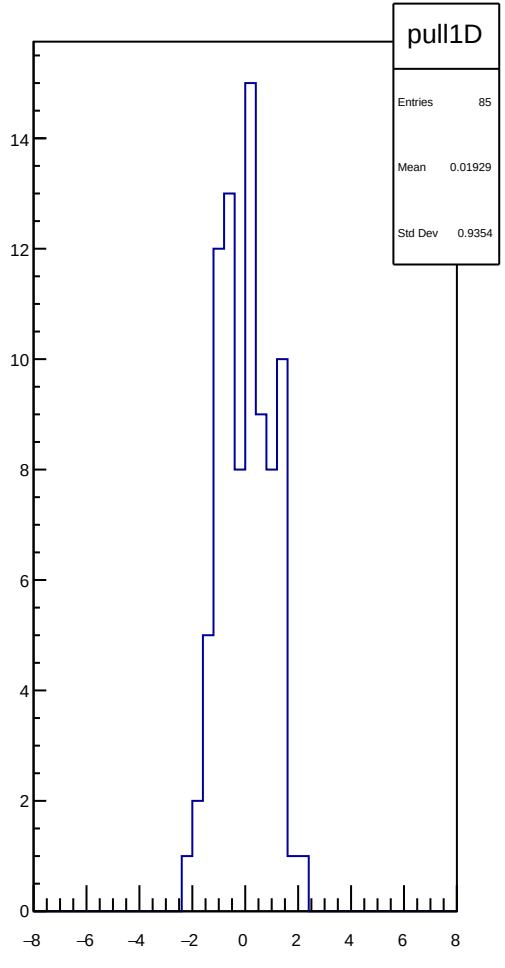

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 7238 / 84
p0 1387 ± 1.094
1700
1600
1500
1400
1300
1200

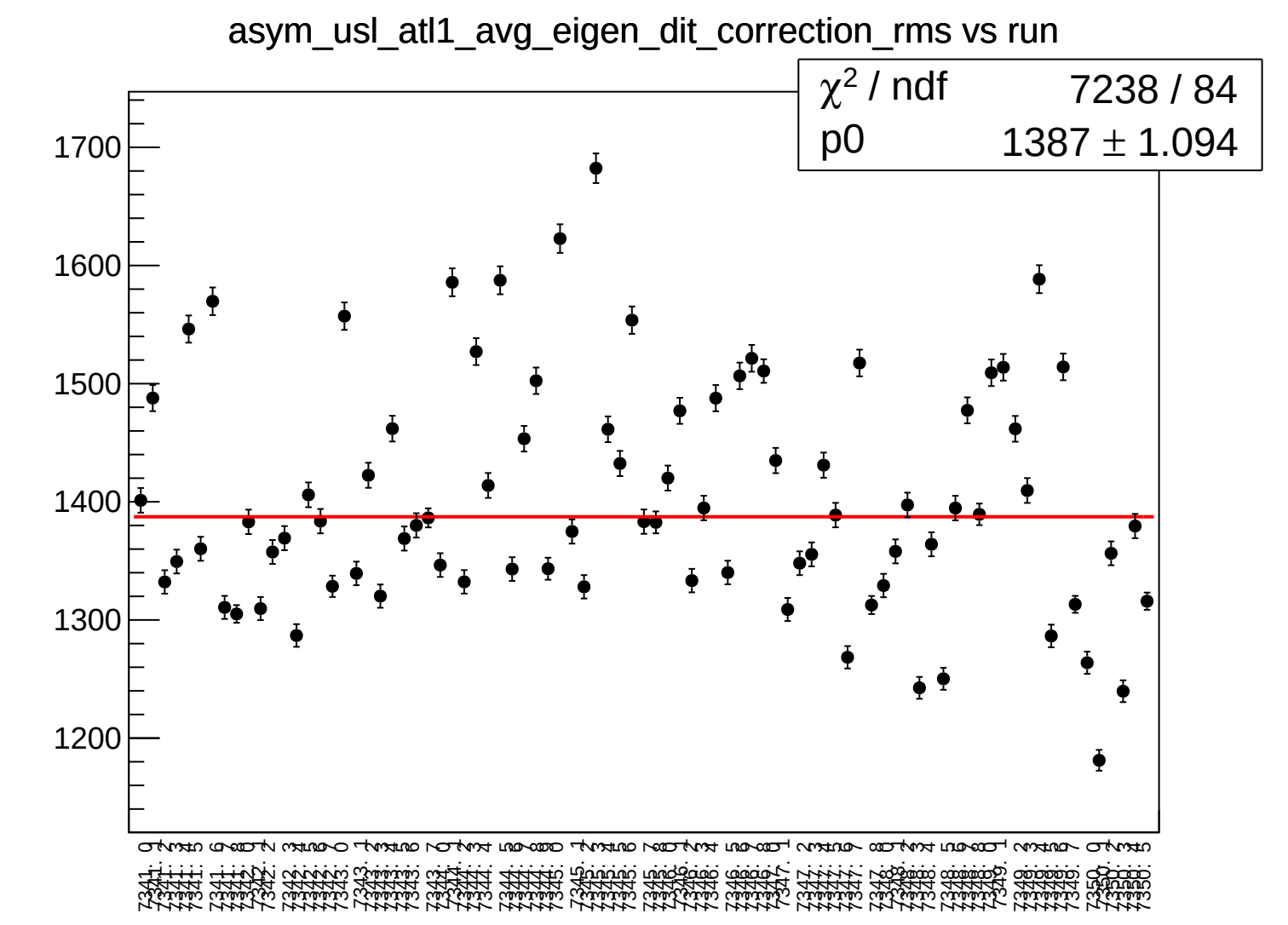

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 69.02 / 84
p0 1297 ± 1634
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 3774
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

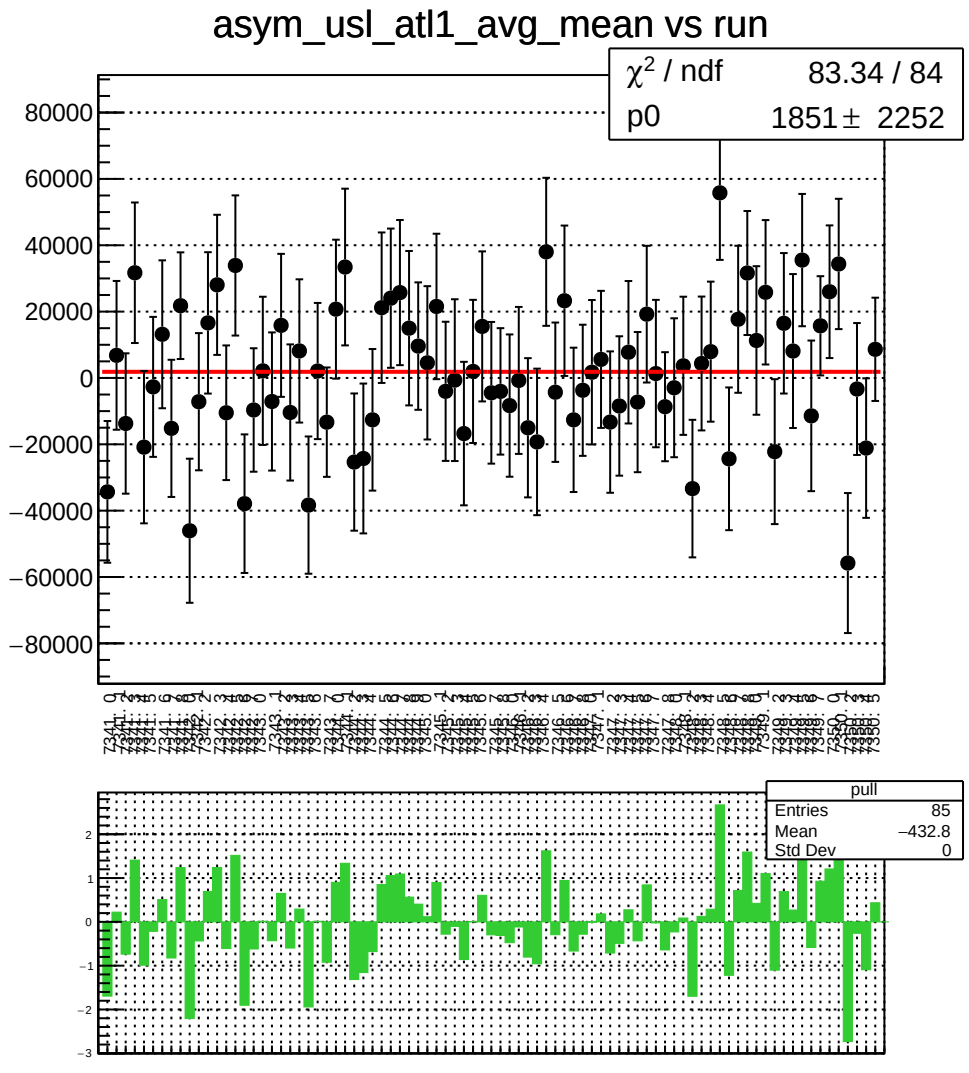

pull1D
Entries 85
Mean 0.0004059
Std Dev 0.9011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

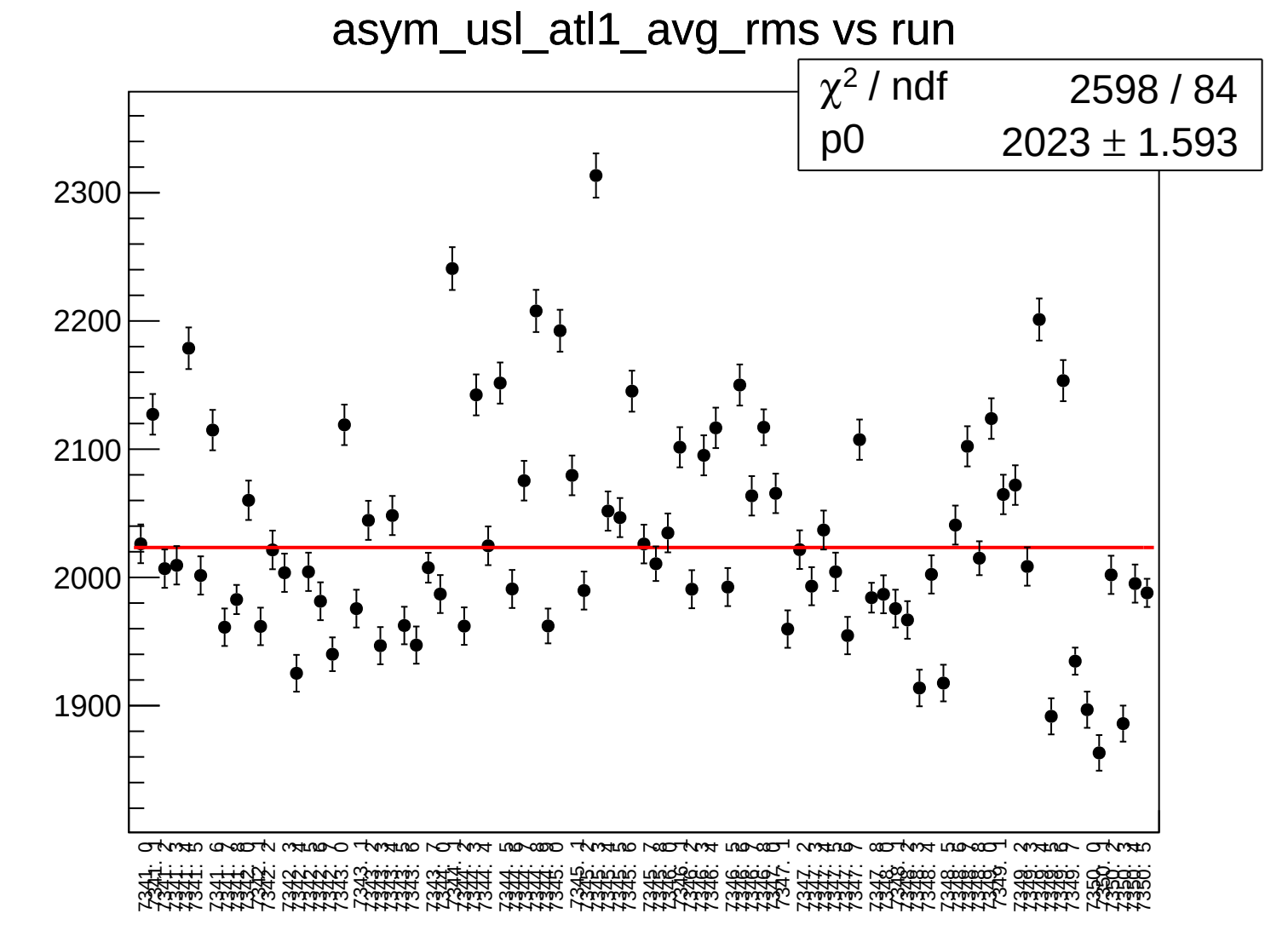

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 77.65 / 84
p0 1469 ± 1.155
1510
1500
1490
1480
1470
1460
1450
1440

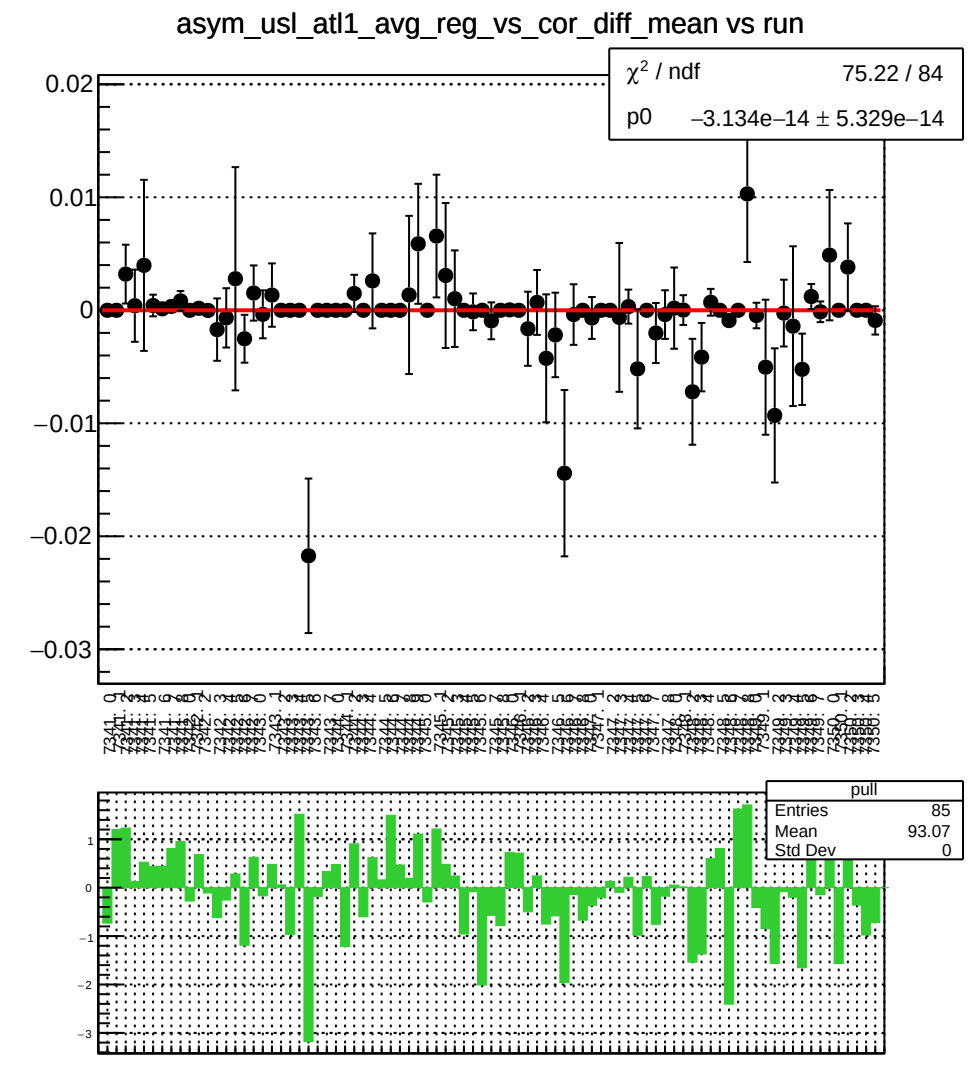

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.41 / 84
p0 −815.8 ± 1547
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −116.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

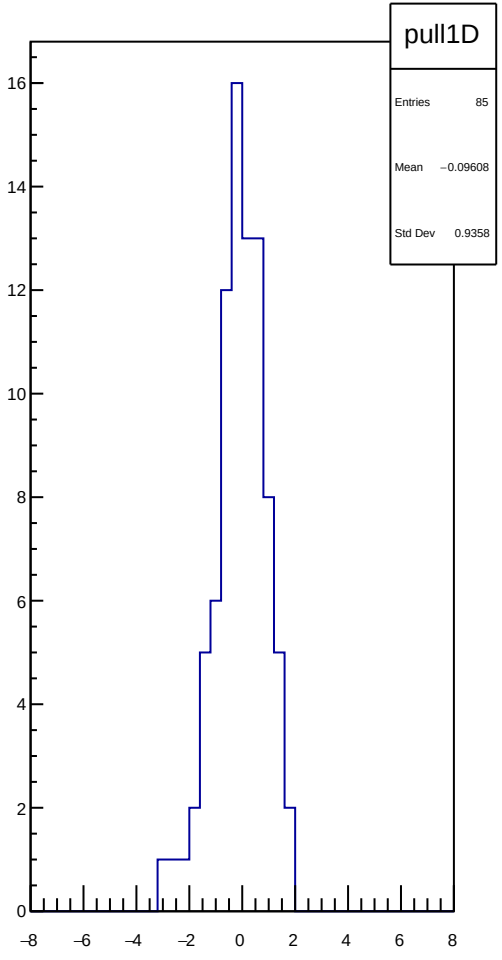

pull1D
Entries 85
Mean 0.01929
Std Dev 0.9354
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

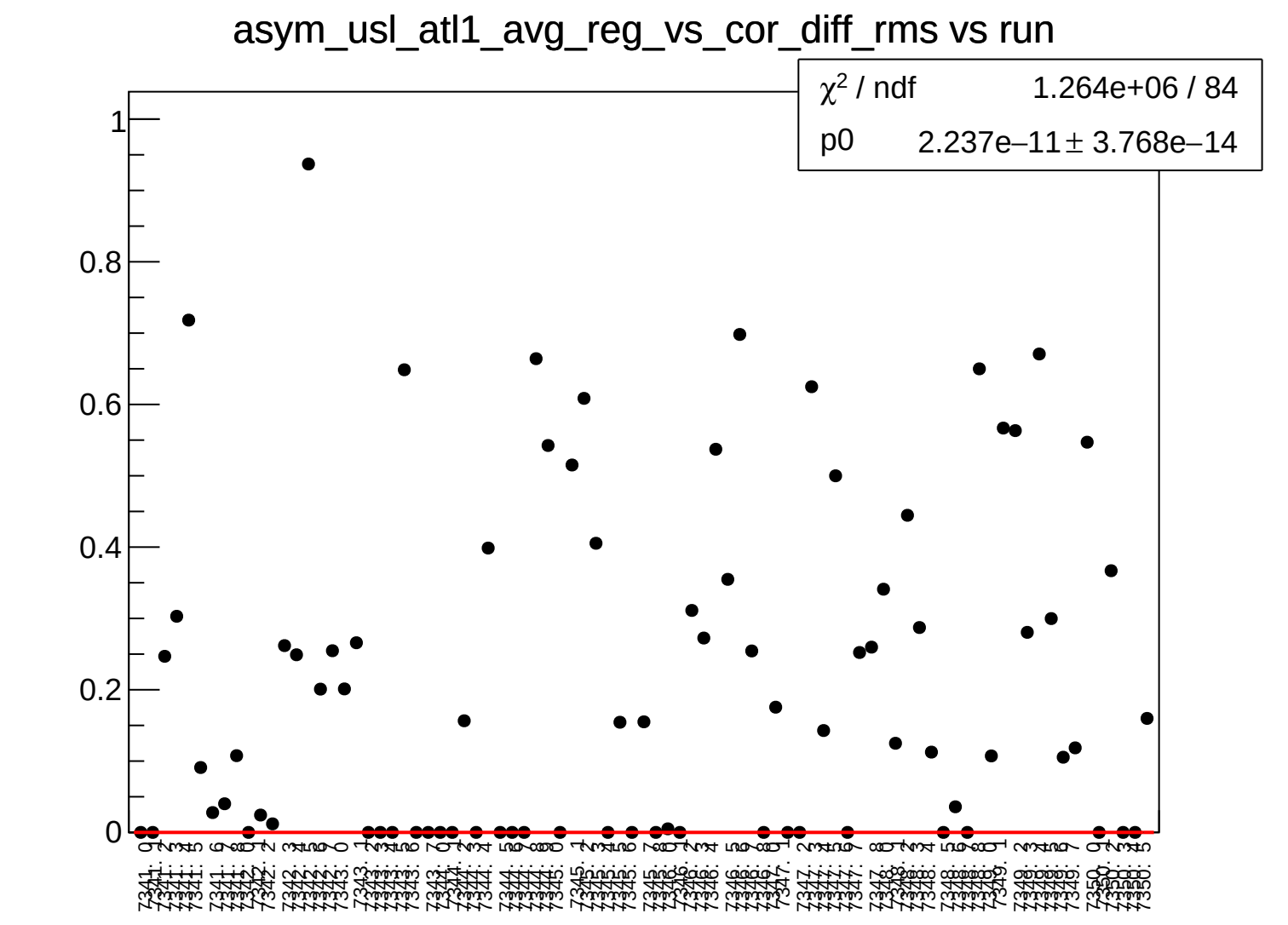

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 7238 / 84
p0 1387 ± 1.094
1700
1600
1500
1400
1300
1200

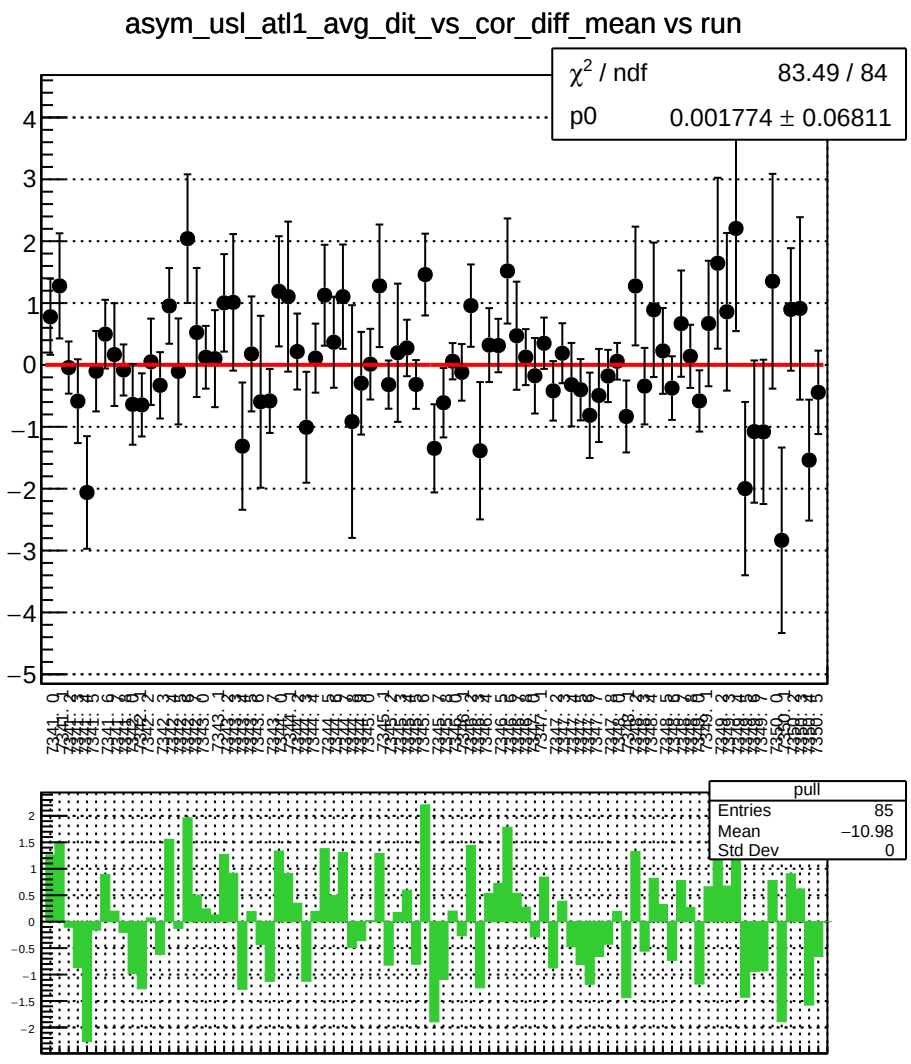

asym_usl_atl1_avg_mean vs run
χ² / ndf 83.34 / 84
p0 1851 ± 2252
pull
Entries 85
Mean −432.8
Std Dev 0
pull1D
Entries 85
Mean −0.006682
Std Dev 0.9901

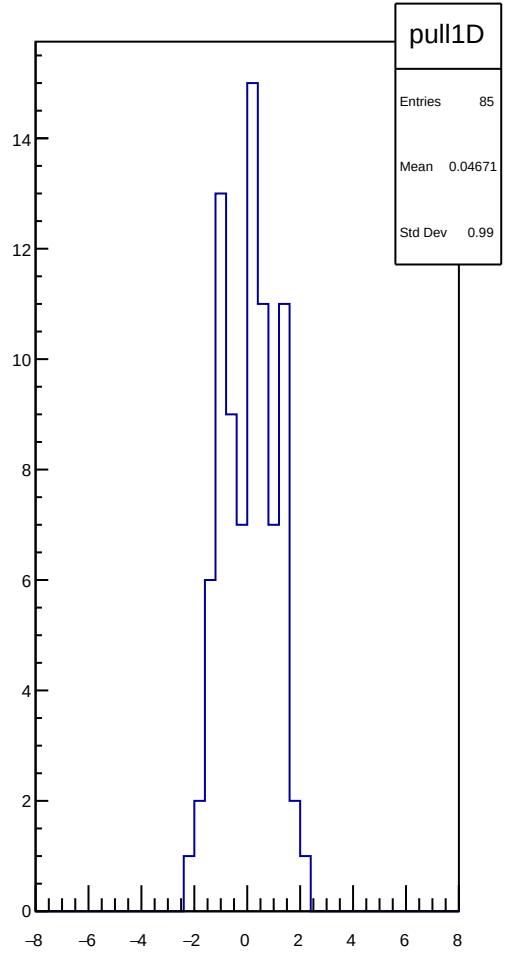

asym_usl_atl1_avg_rms vs run
χ² / ndf 2598 / 84
p0 2023 ± 1.593
2300
2200
2100
2000
1900

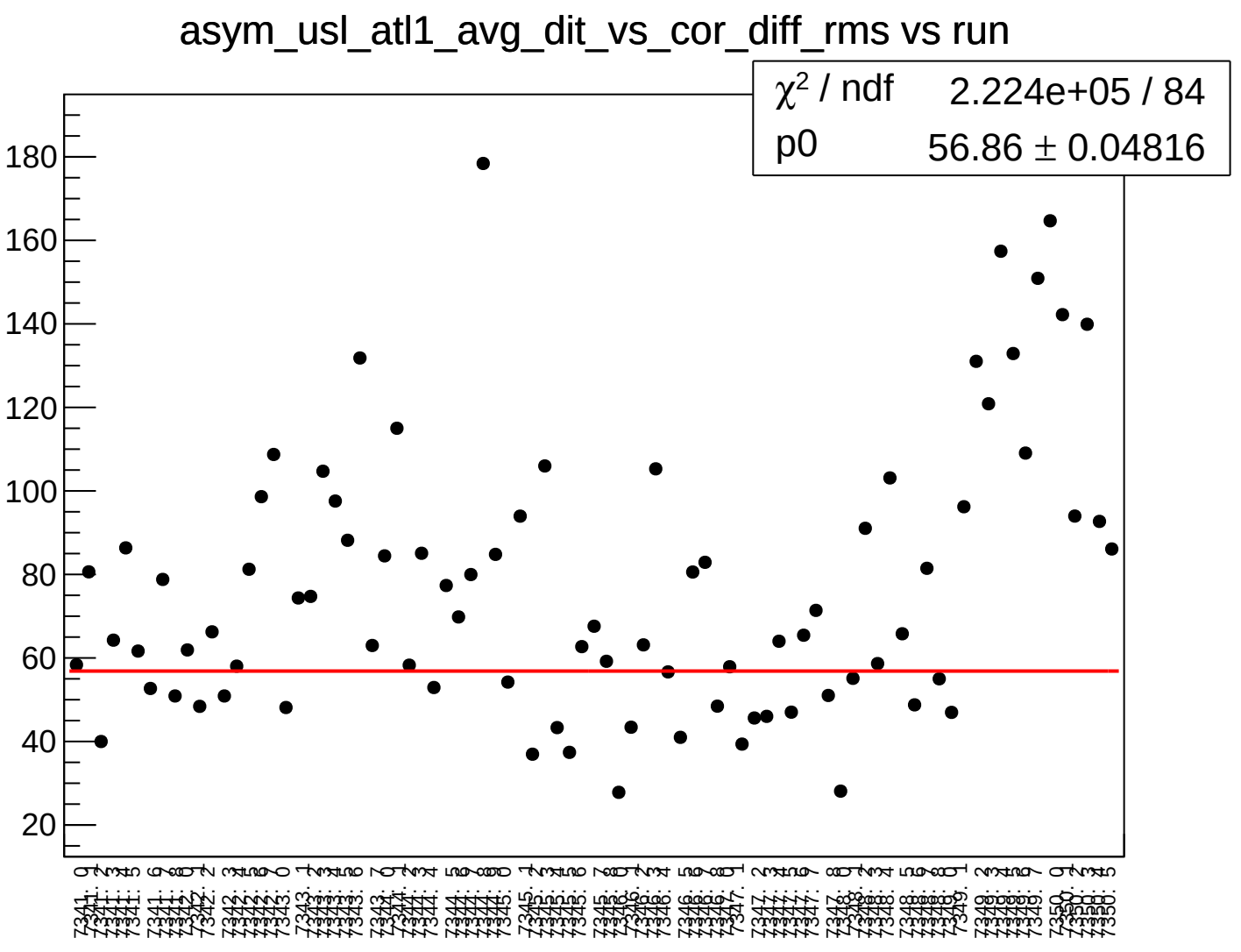

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.22 / 84
p0 −3.134e−14 ± 5.329e−14
pull
Entries 85
Mean 93.07
Std Dev 0

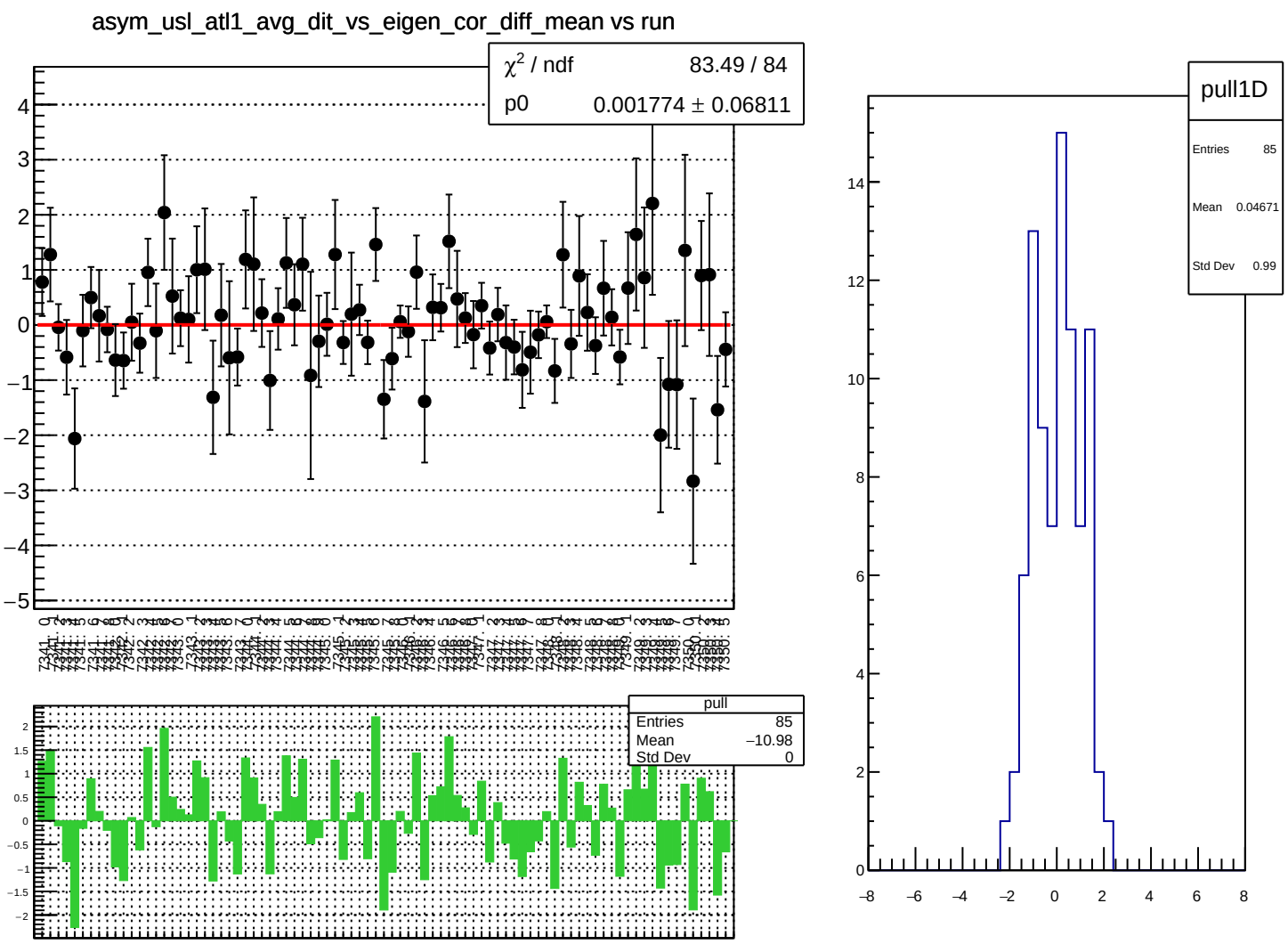

pull1D
Entries 85
Mean −0.09608
Std Dev 0.9358

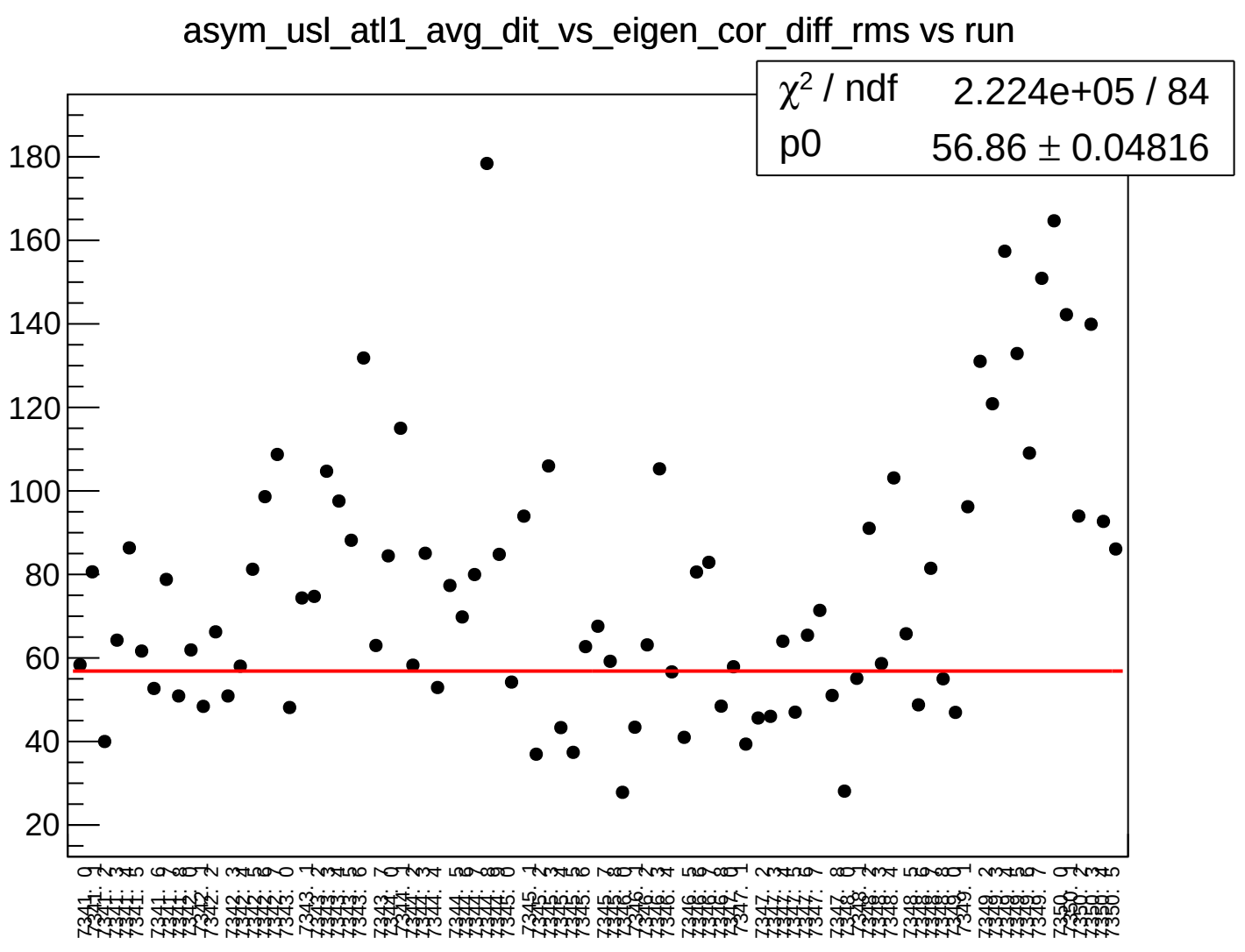

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.264e+06 / 84
p0 2.237e−11 ± 3.768e−14
1
0.8
0.6
0.4
0.2
0

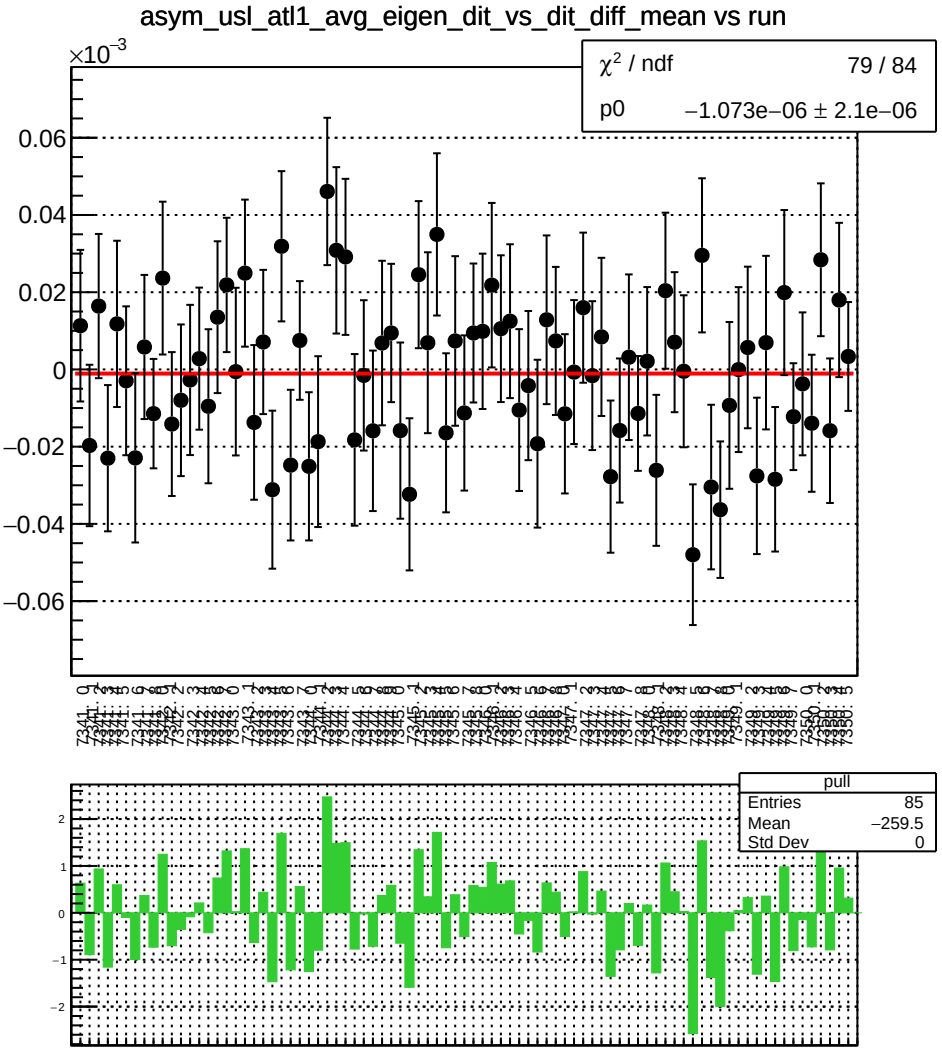

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.49 / 84
p0 0.001774 ± 0.06811
pull
Entries 85
Mean −10.98
Std Dev 0

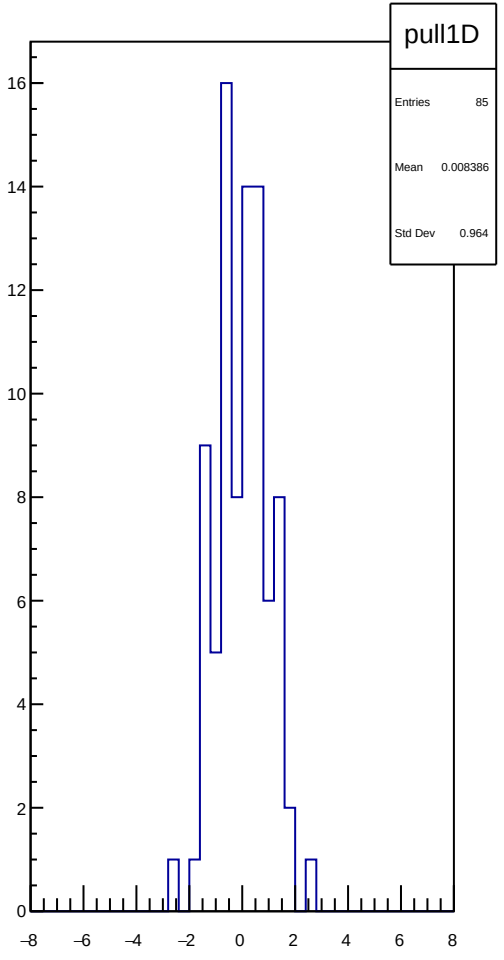

pull1D
Entries 85
Mean 0.04671
Std Dev 0.99

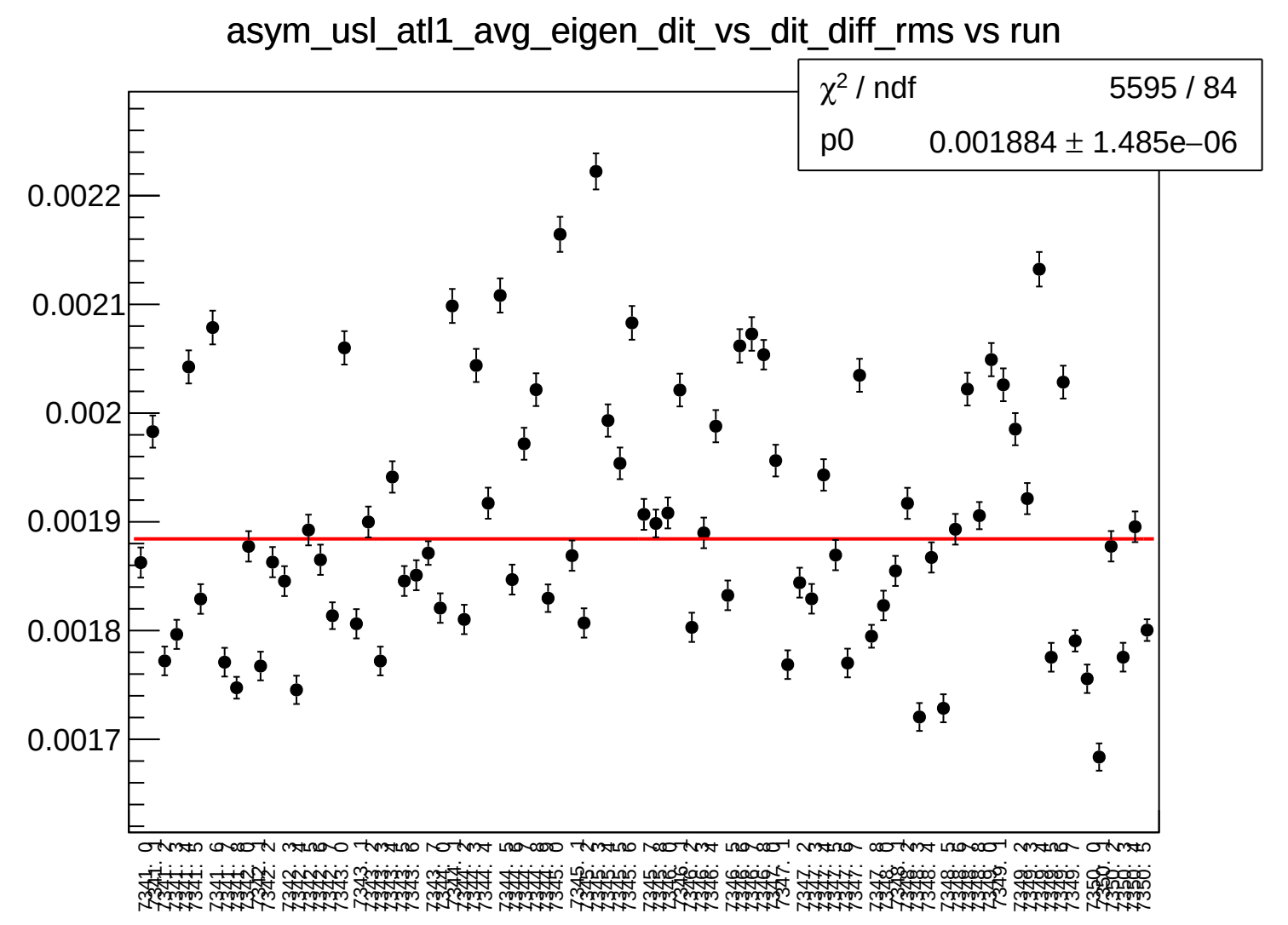

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.224e+05 / 84
p0 56.86 ± 0.04816
180
160
140
120
100
80
60
40
20

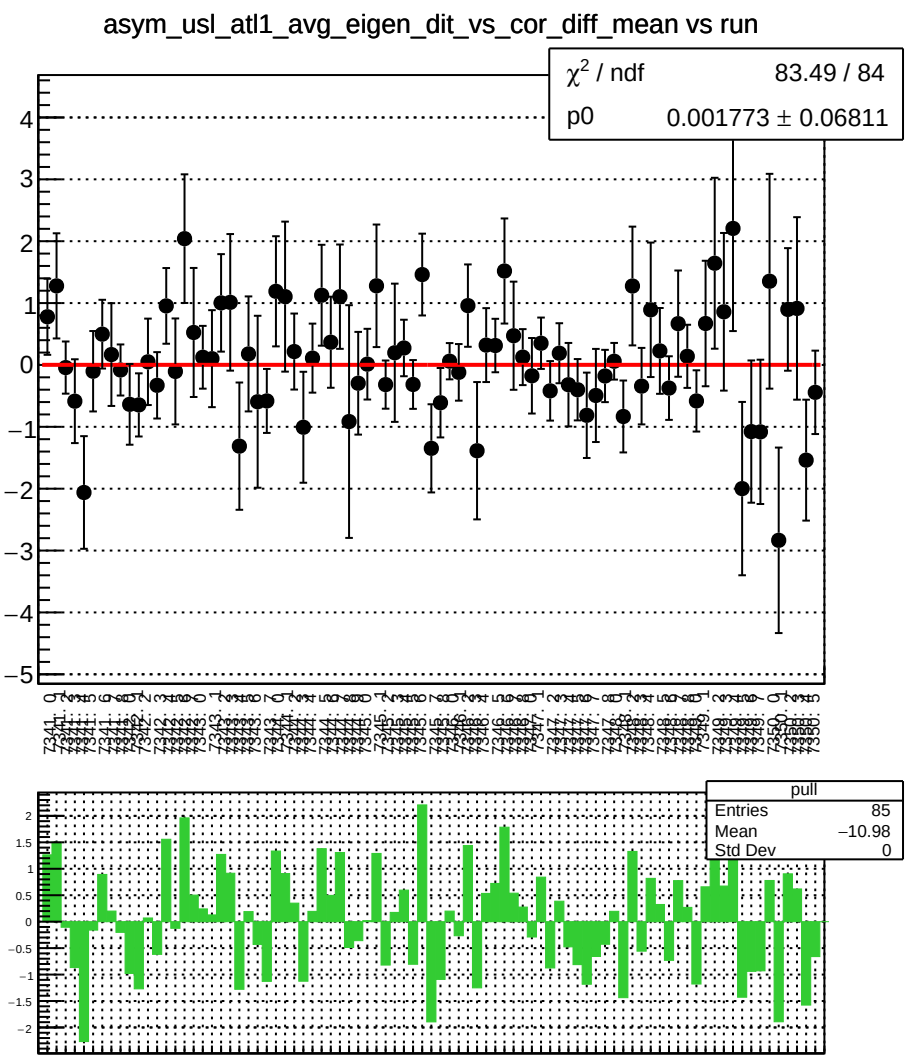

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.49 / 84
p0 0.001774 ± 0.06811
pull
Entries 85
Mean −10.98
Std Dev 0
pull1D
Entries 85
Mean 0.04671
Std Dev 0.99

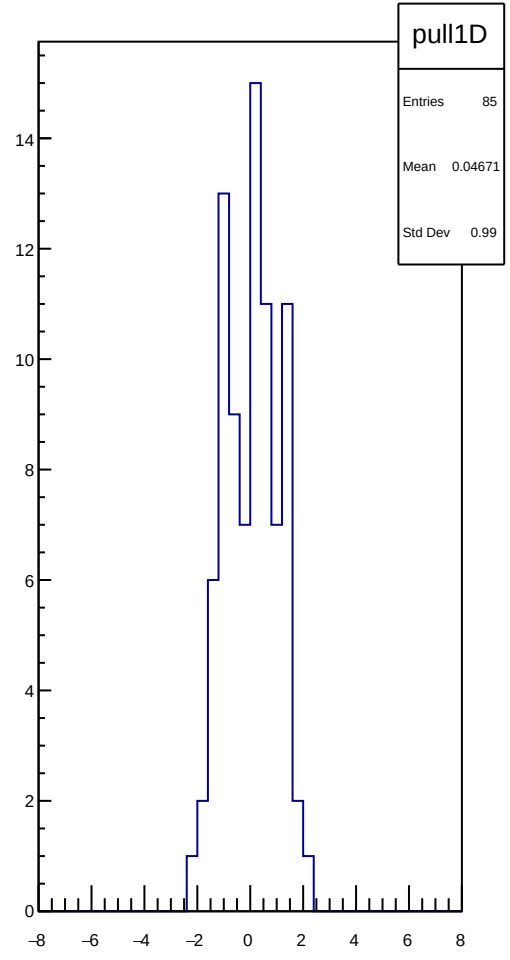

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.224e+05 / 84
p0 56.86 ± 0.04816
180
160
140
120
100
80
60
40
20

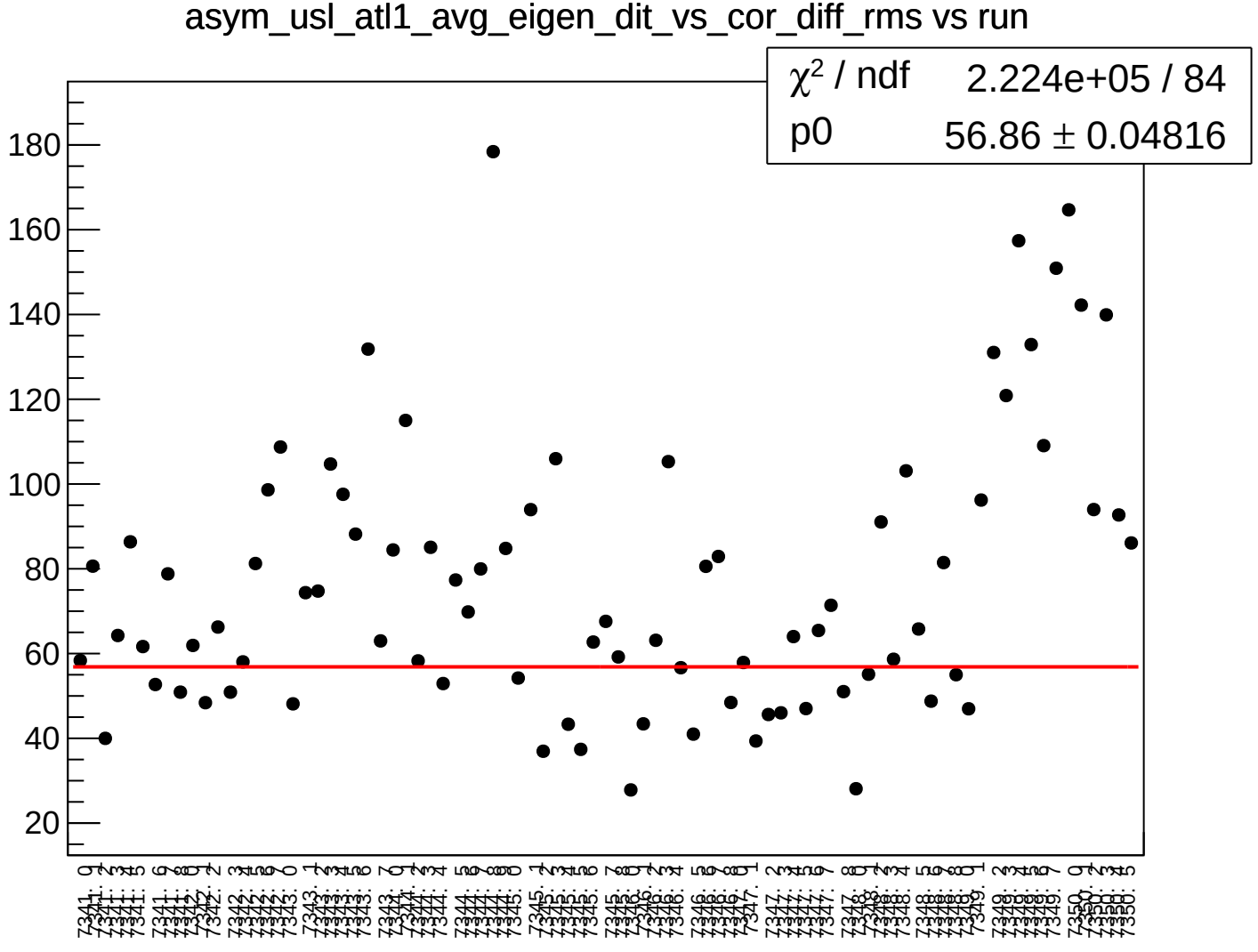

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79 / 84
p0 −1.073e−06 ± 2.1e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean −259.5
Std Dev 0
2
1
0
−1
−2

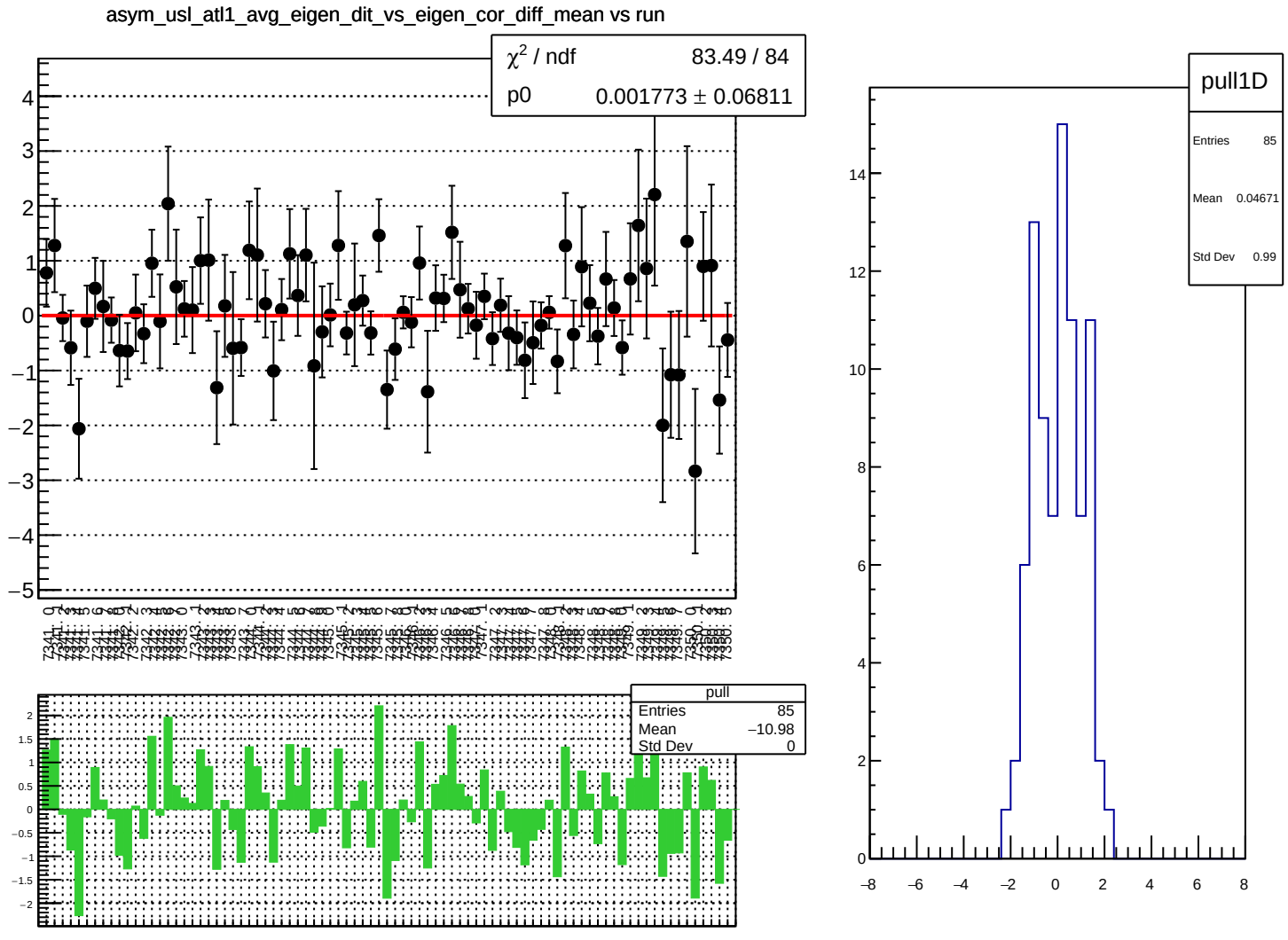

pull1D
Entries 85
Mean 0.008386
Std Dev 0.964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

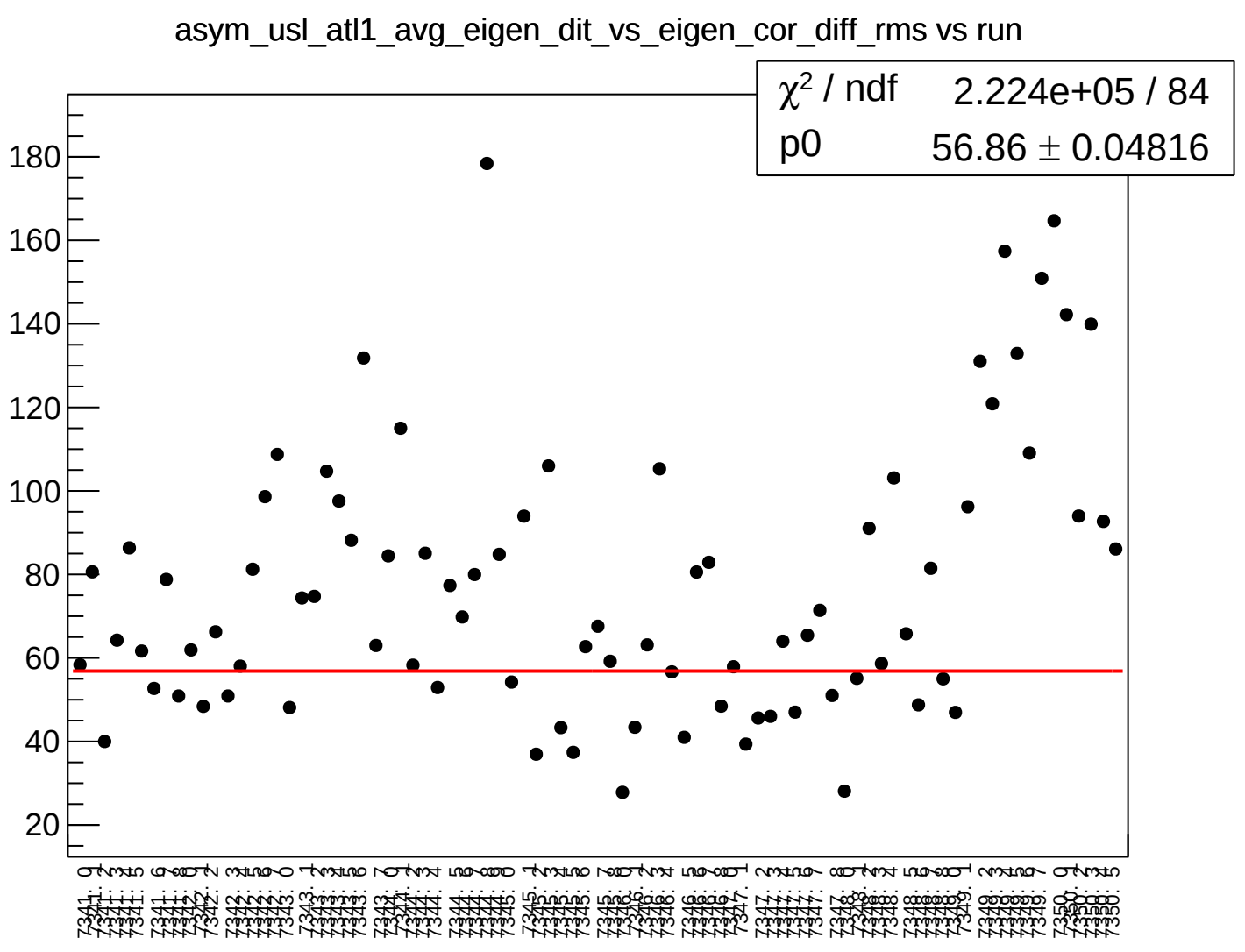

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5595 / 84
p0 0.001884 ± 1.485e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

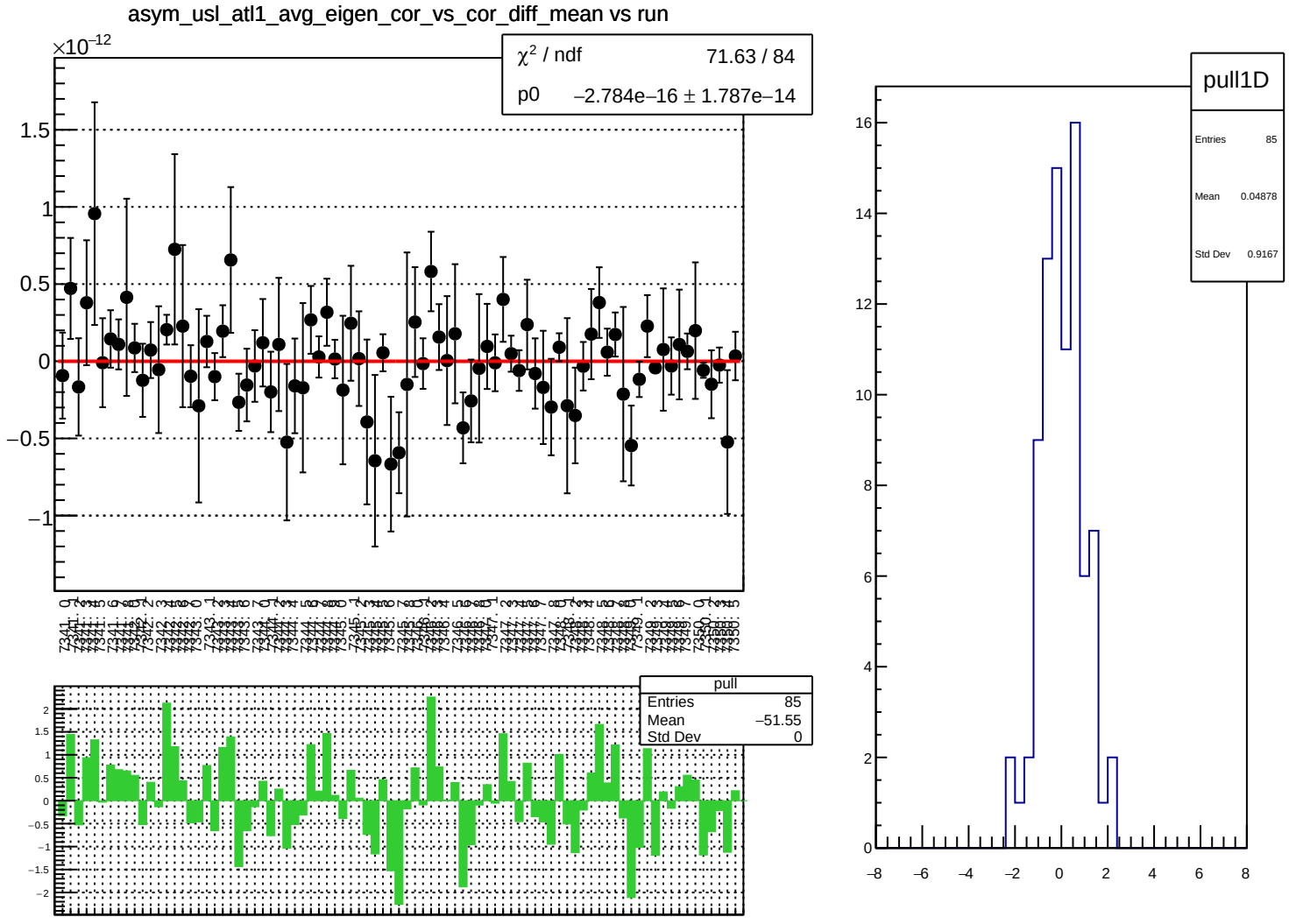

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.49 / 84
p0 0.001773 ± 0.06811
pull
Entries 85
Mean −10.98
Std Dev 0

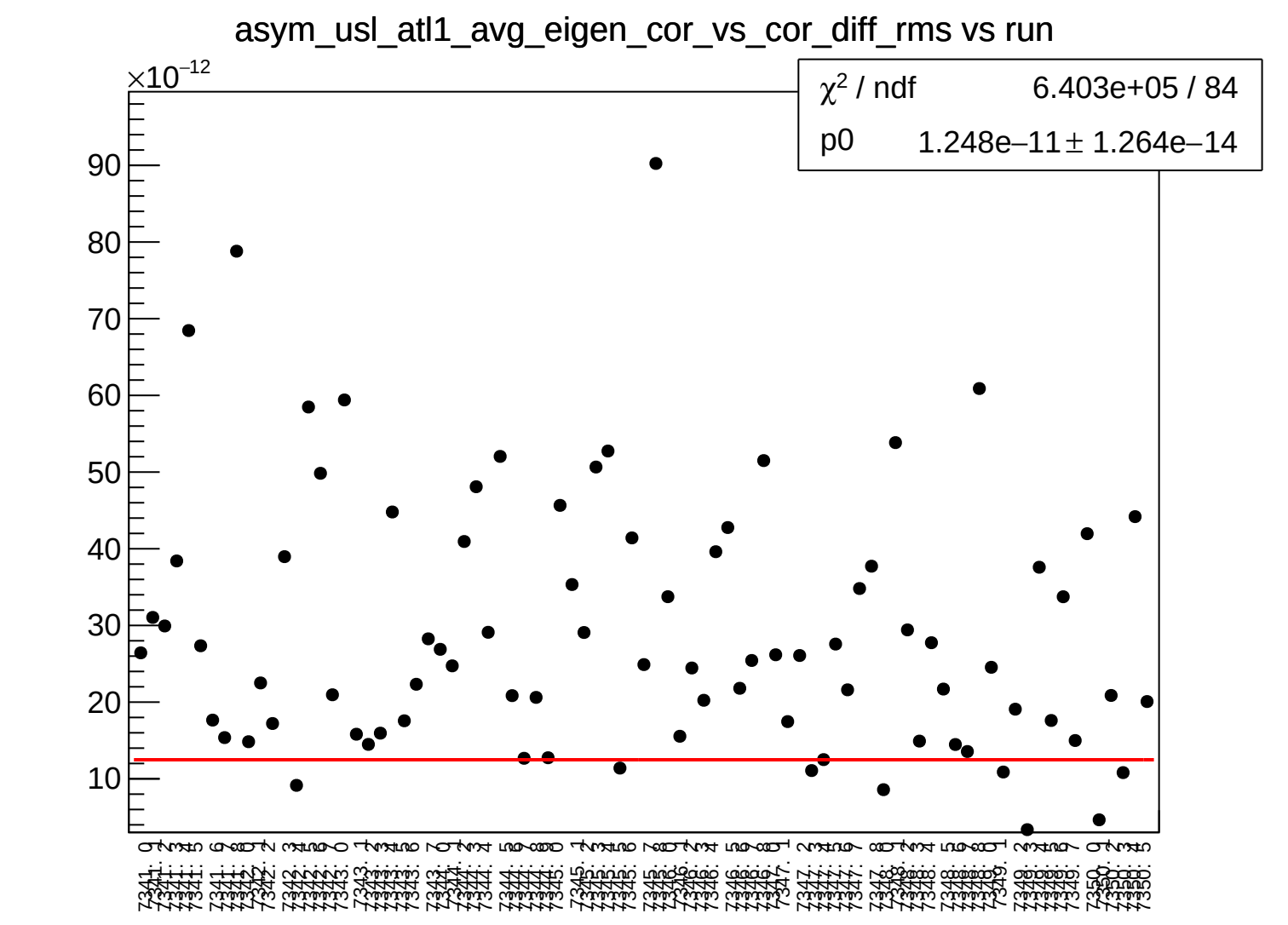

pull1D
Entries 85
Mean 0.04671
Std Dev 0.99

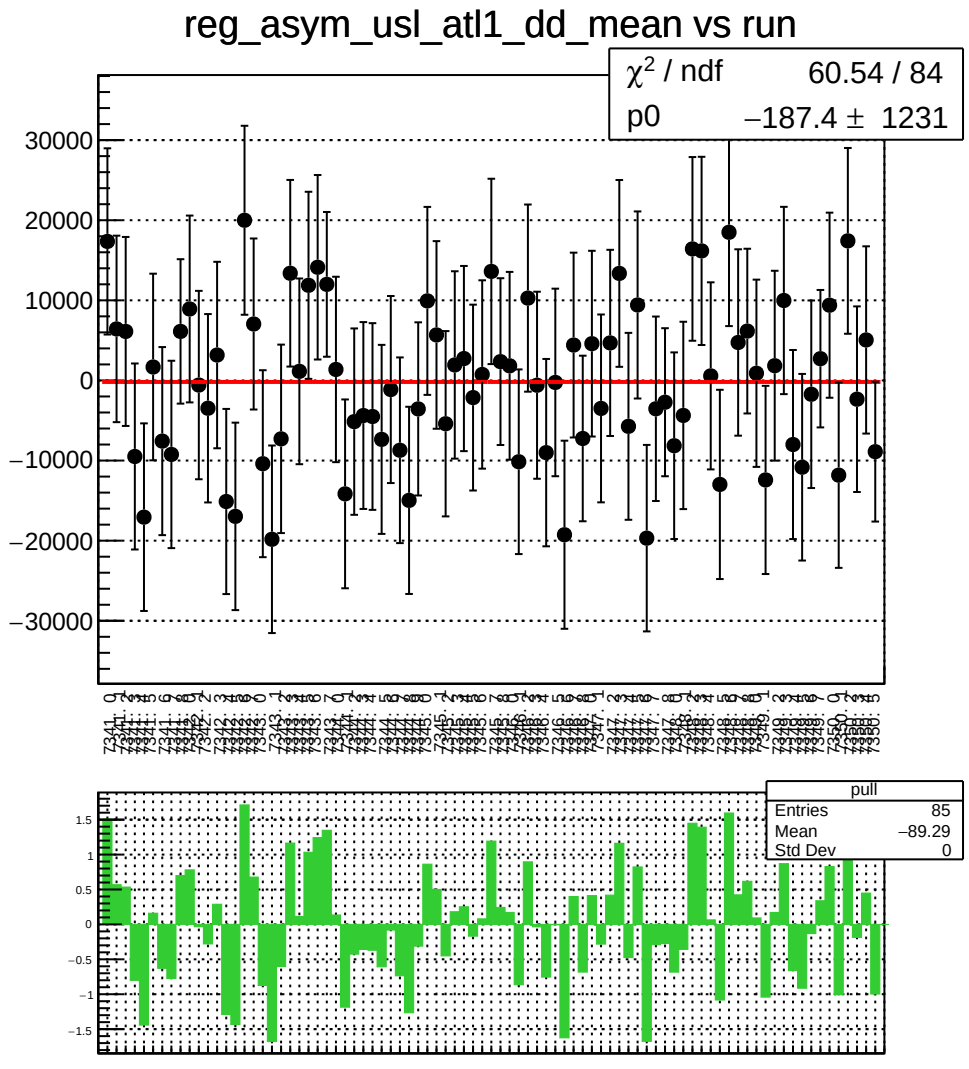

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.224e+05 / 84
p0 56.86 ± 0.04816
180
160
140
120
100
80
60
40
20

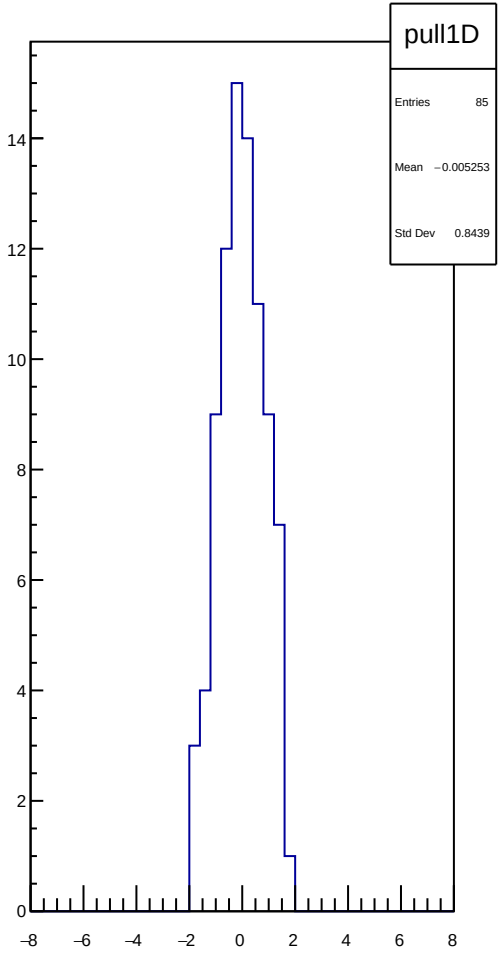

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.49 / 84
p0 0.001773 ± 0.06811
pull
Entries 85
Mean −10.98
Std Dev 0
pull1D
Entries 85
Mean 0.04671
Std Dev 0.99

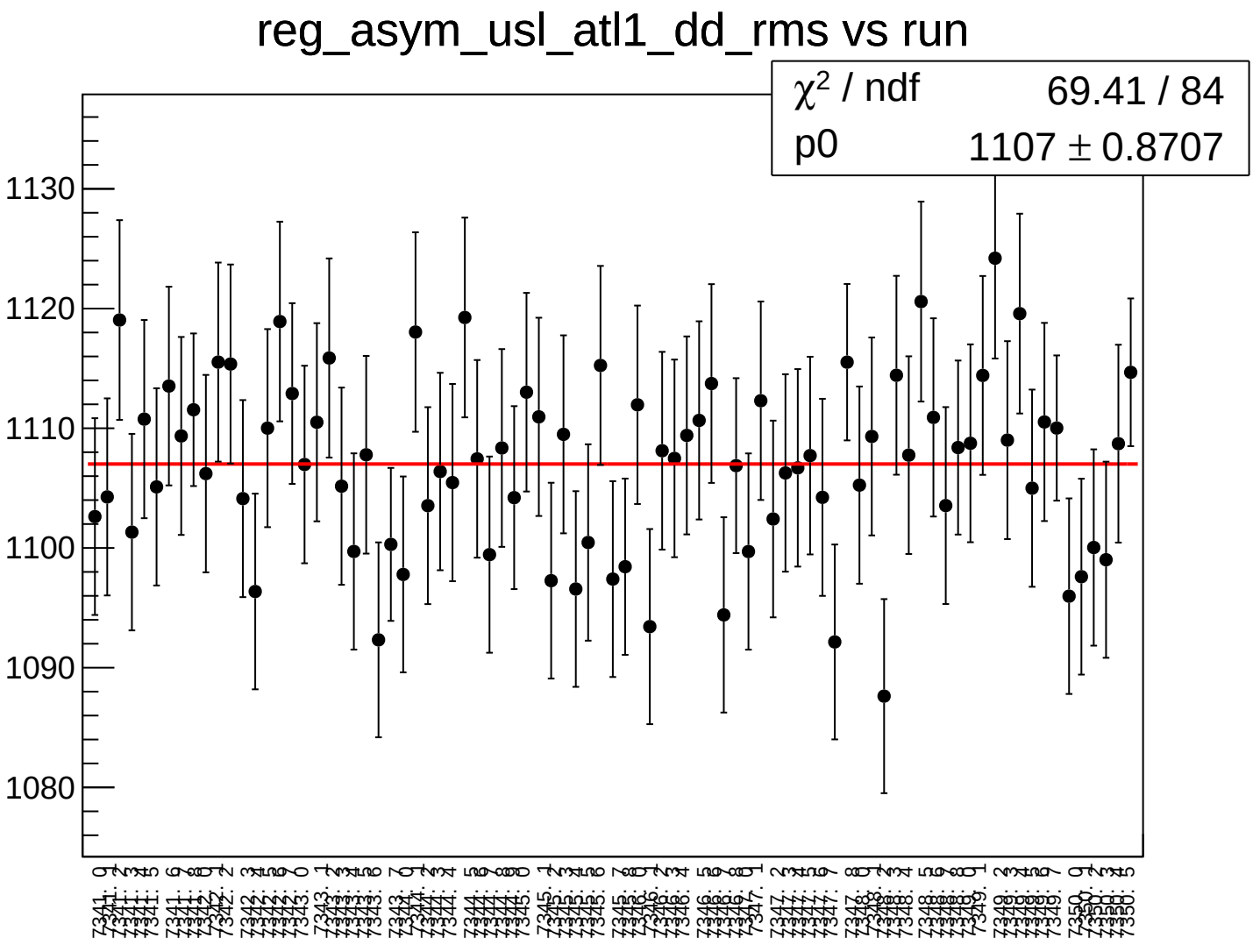

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.224e+05 / 84
p0 56.86 ± 0.04816
180
160
140
120
100
80
60
40
20

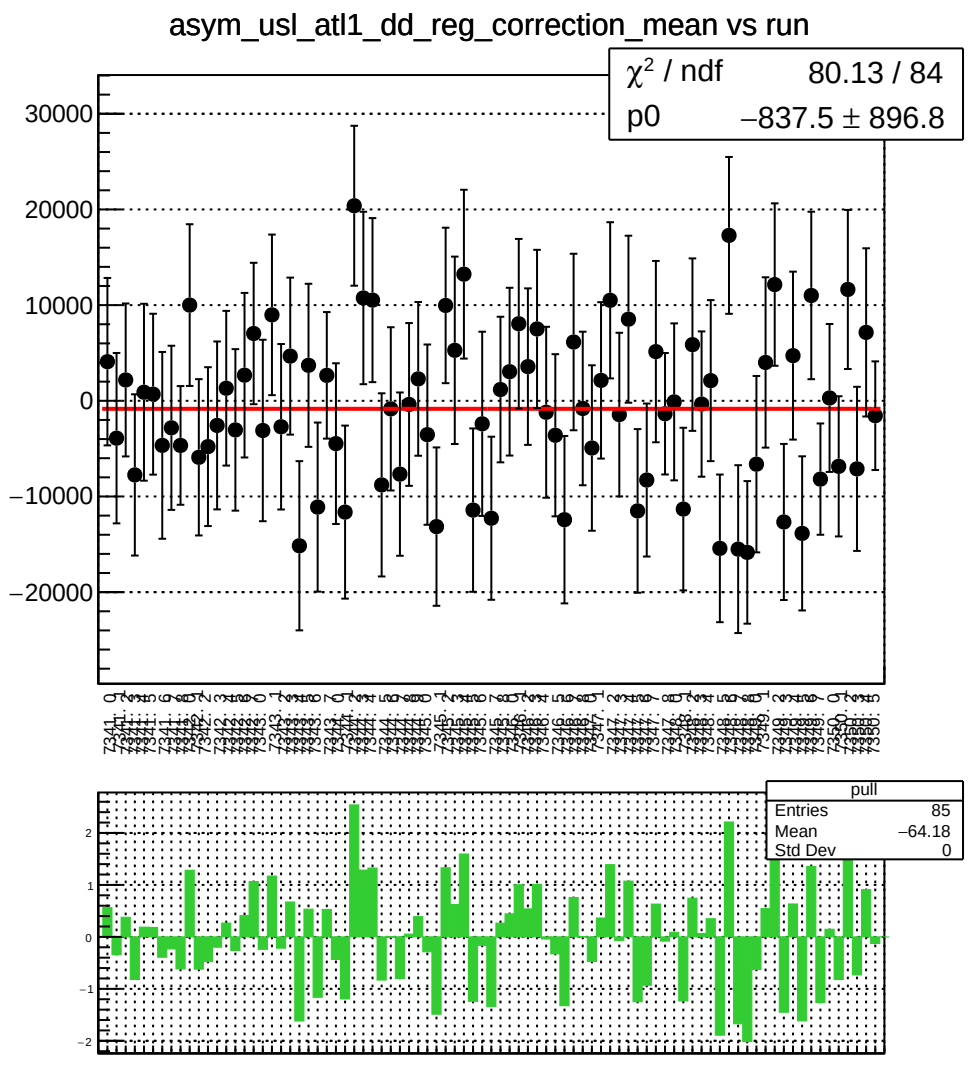

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.63 / 84
p0 −2.784e−16 ± 1.787e−14
pull
Entries 85
Mean −51.55
Std Dev 0
pull1D
Entries 85
Mean 0.04878
Std Dev 0.9167

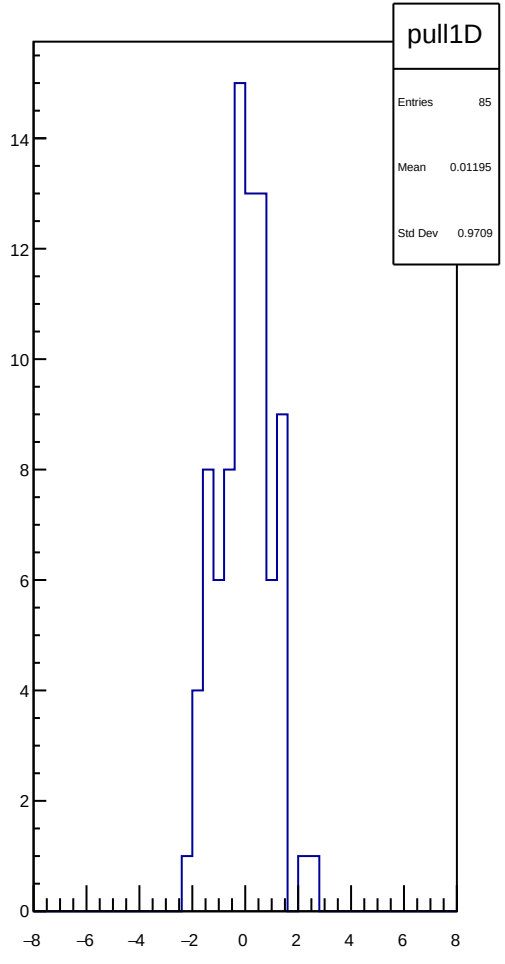

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.403e+05 / 84
p0 1.248e−11 ± 1.264e−14
90
80
70
60
50
40
30
20
10

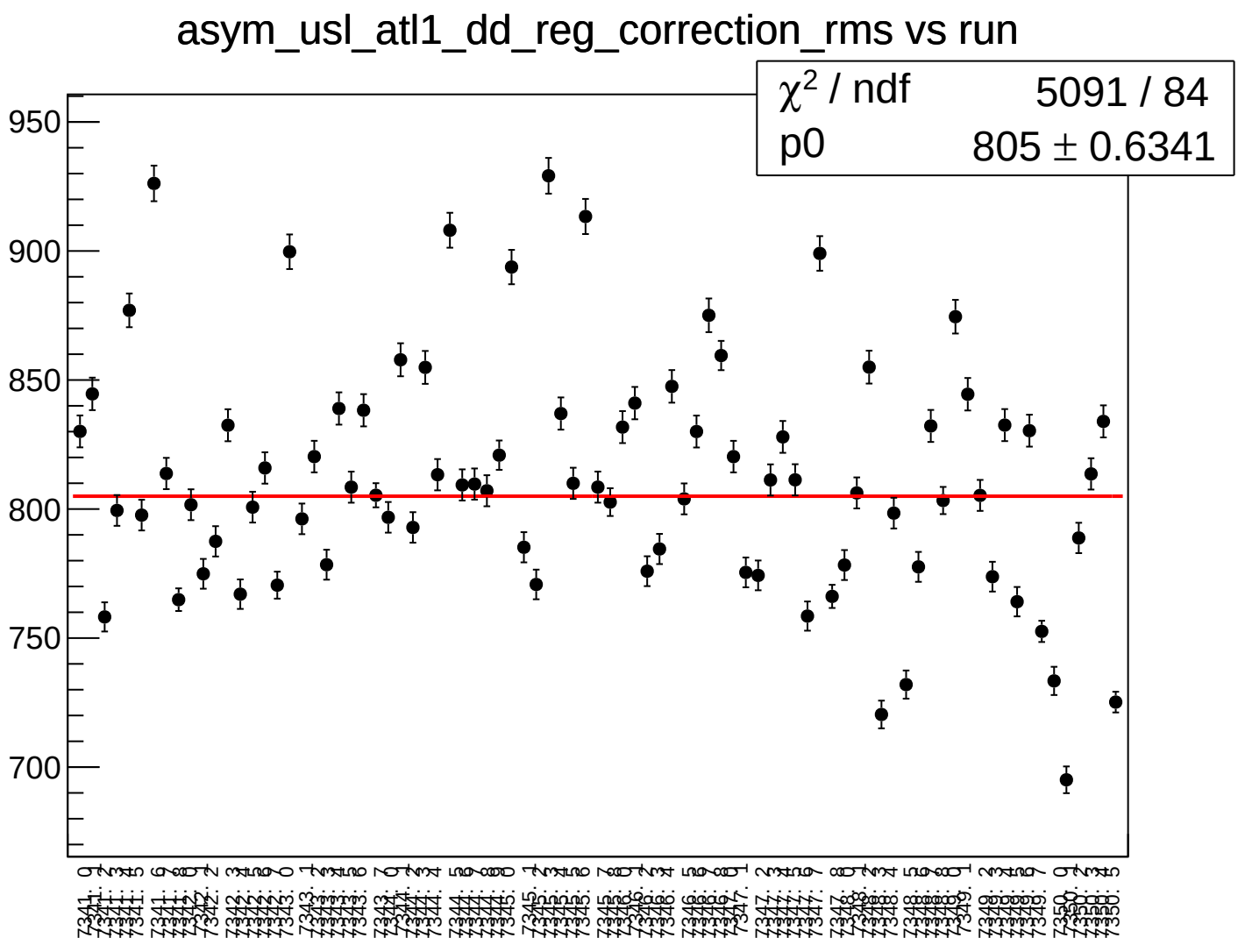

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 60.54 / 84
p0 −187.4 ± 1231
pull
Entries 85
Mean −89.29
Std Dev 0

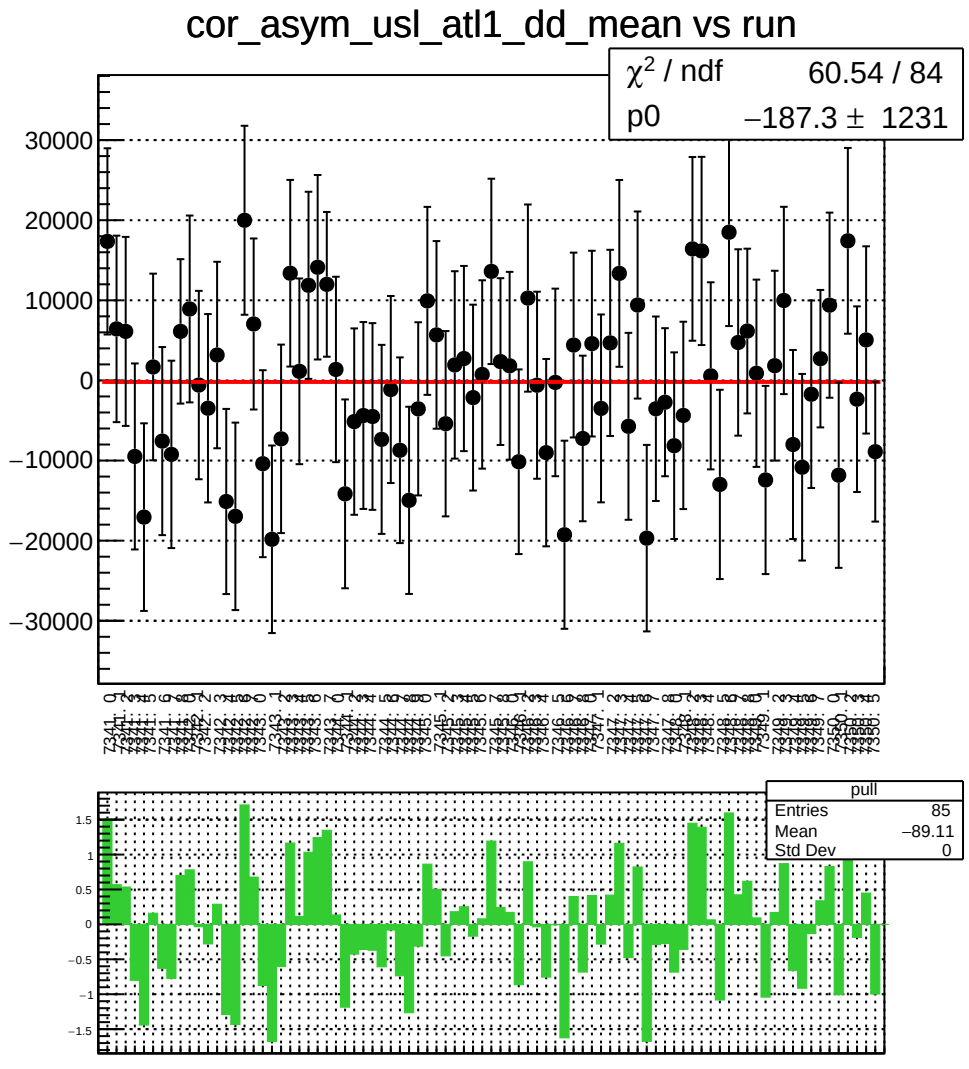

pull1D
Entries 85
Mean −0.005253
Std Dev 0.8439

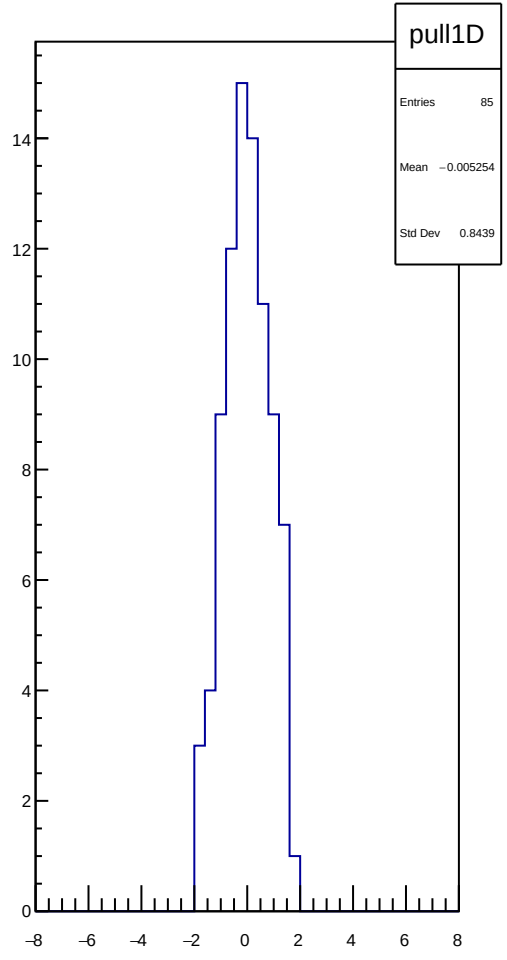

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 69.41 / 84
p0 1107 ± 0.8707
1130
1120
1110
1100
1090
1080

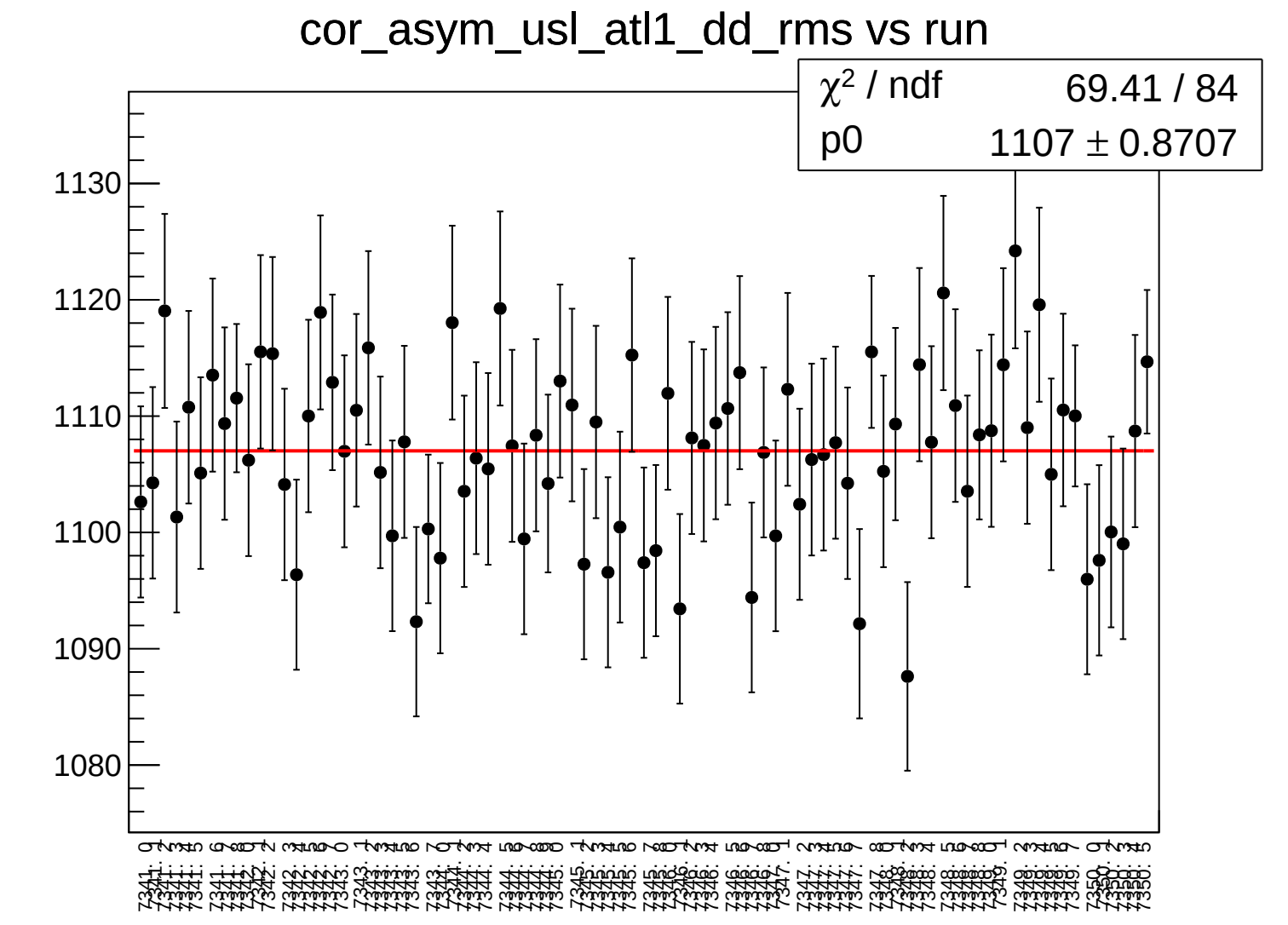

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 80.13 / 84
p0 −837.5 ± 896.8
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −64.18
Std Dev 0
2
1
0
−1
−2

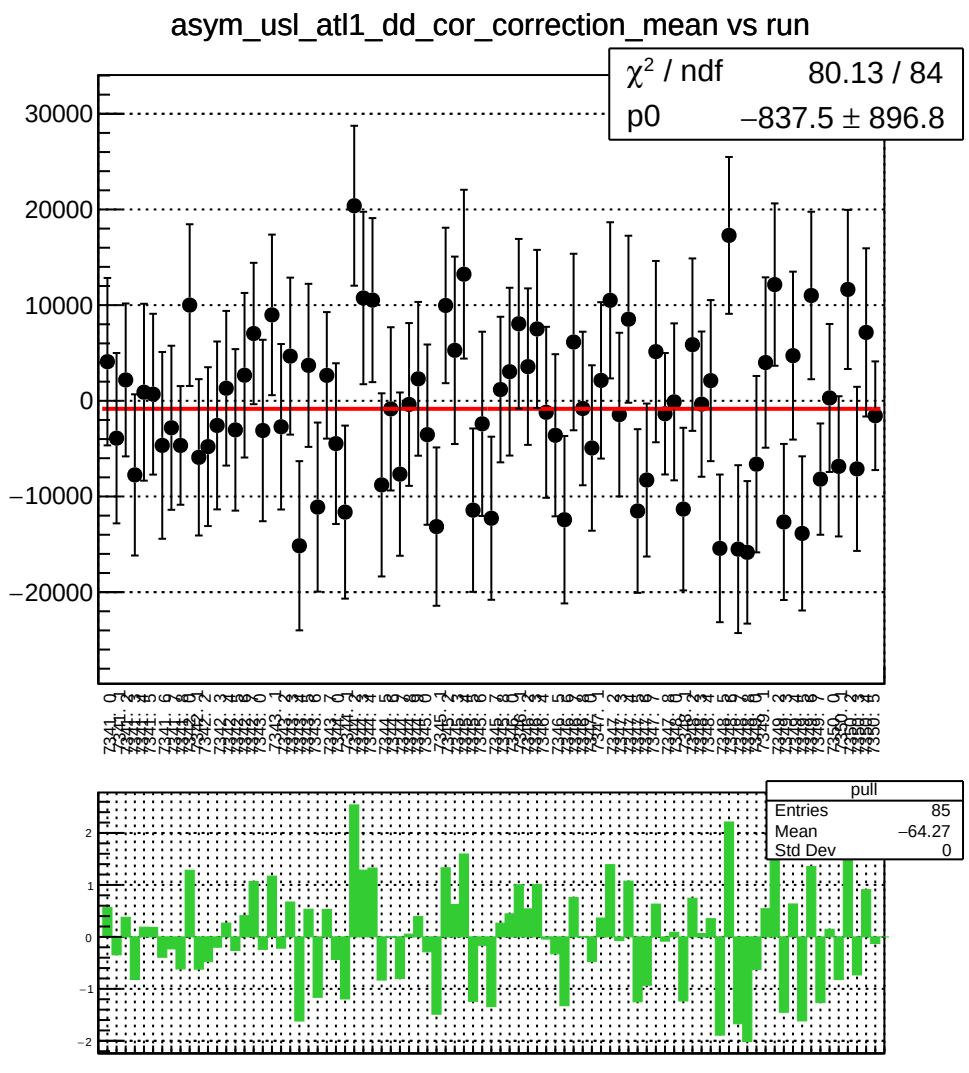

pull1D
Entries 85
Mean 0.01195
Std Dev 0.9709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

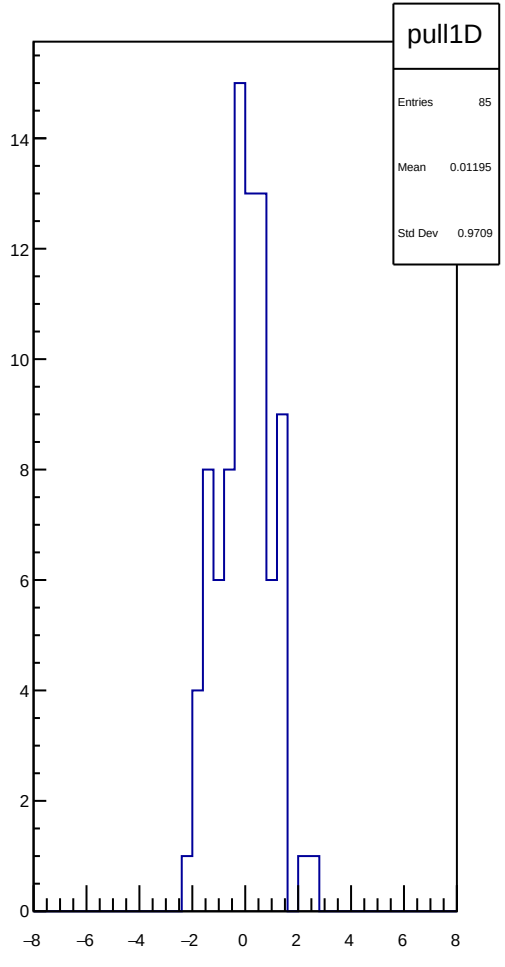

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 5091 / 84
p0 805 ± 0.6341
950
900
850
800
750
700

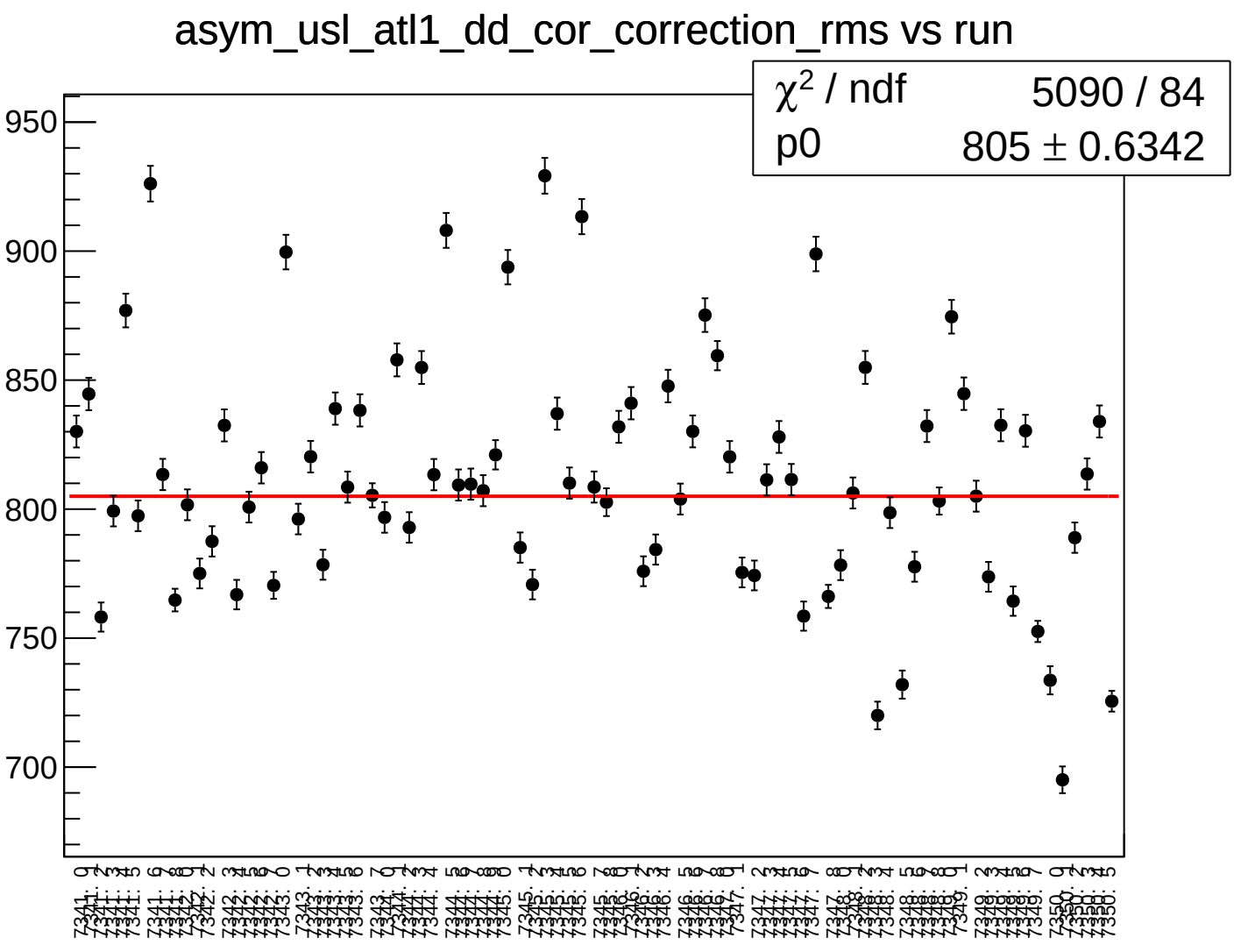

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 60.54 / 84
p0 −187.3 ± 1231
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −89.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

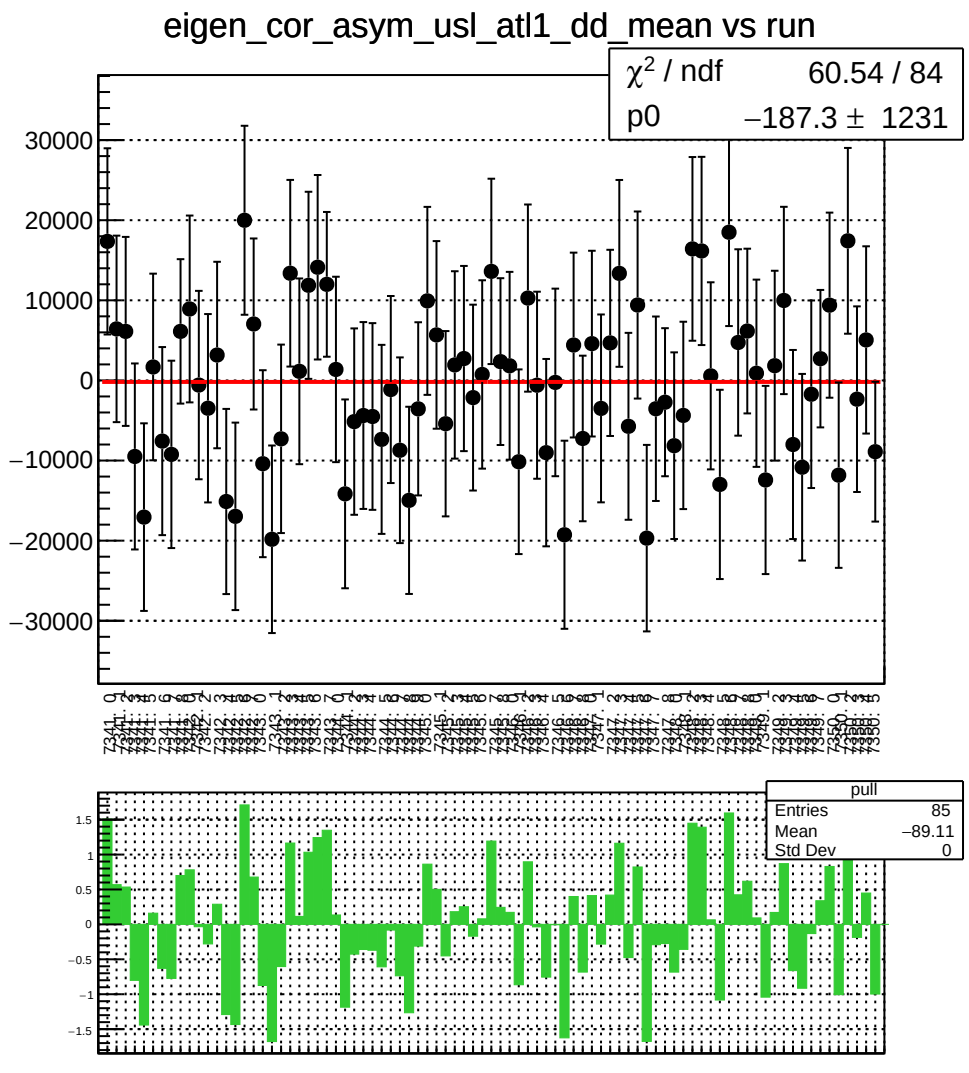

pull1D
Entries 85
Mean −0.005254
Std Dev 0.8439
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

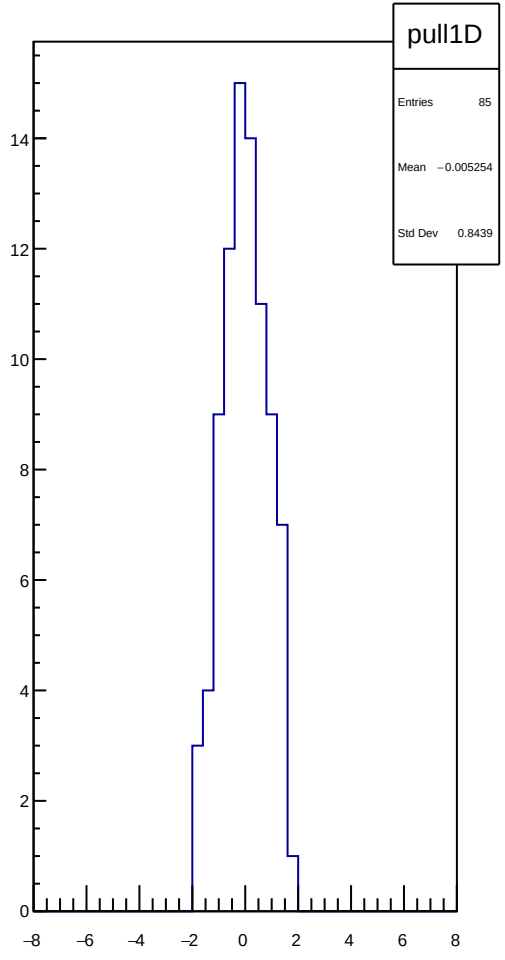

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 69.41 / 84
p0 1107 ± 0.8707
1130
1120
1110
1100
1090
1080

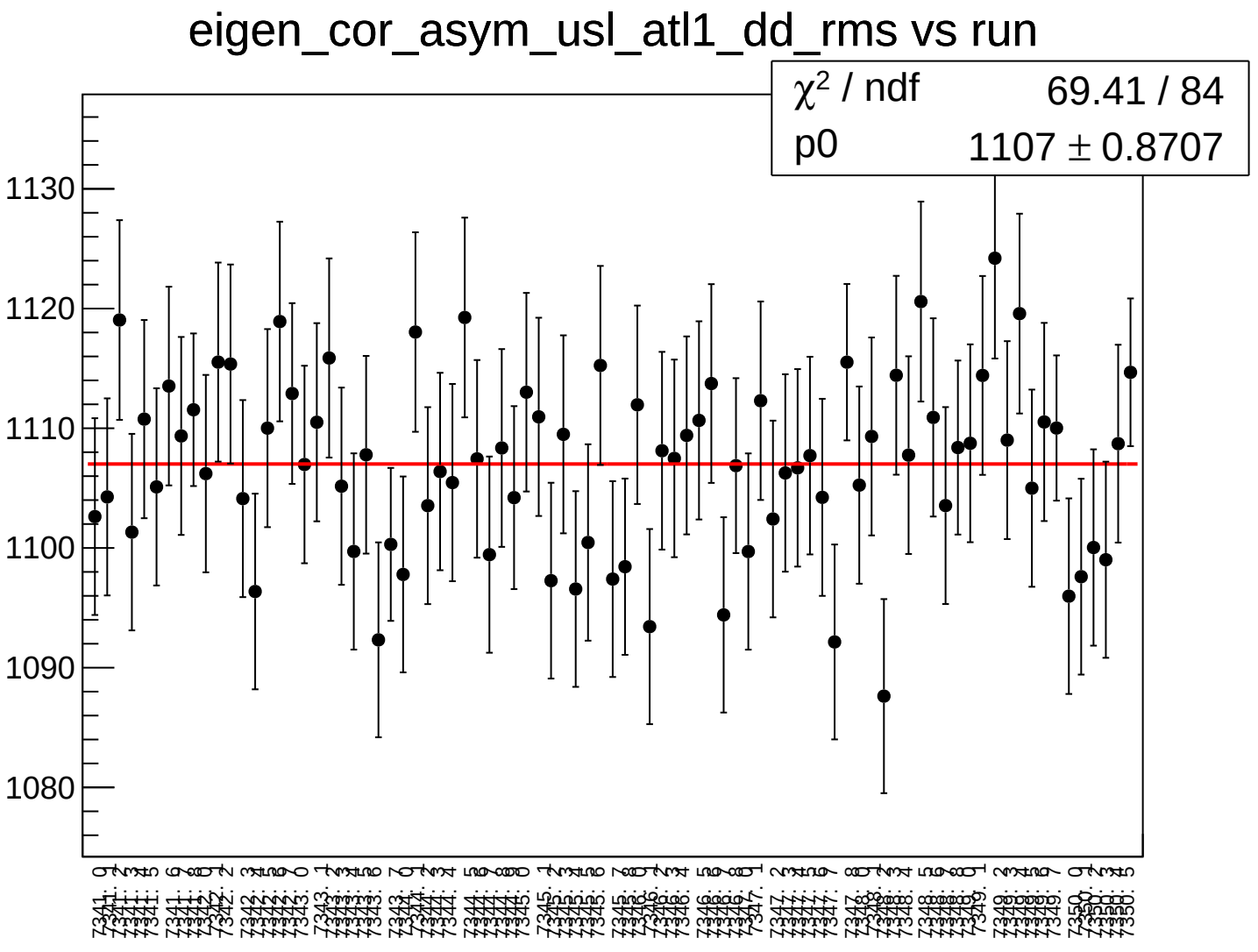

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 80.13 / 84
p0 −837.5 ± 896.8
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −64.27
Std Dev 0
2
1
0
−1
−2

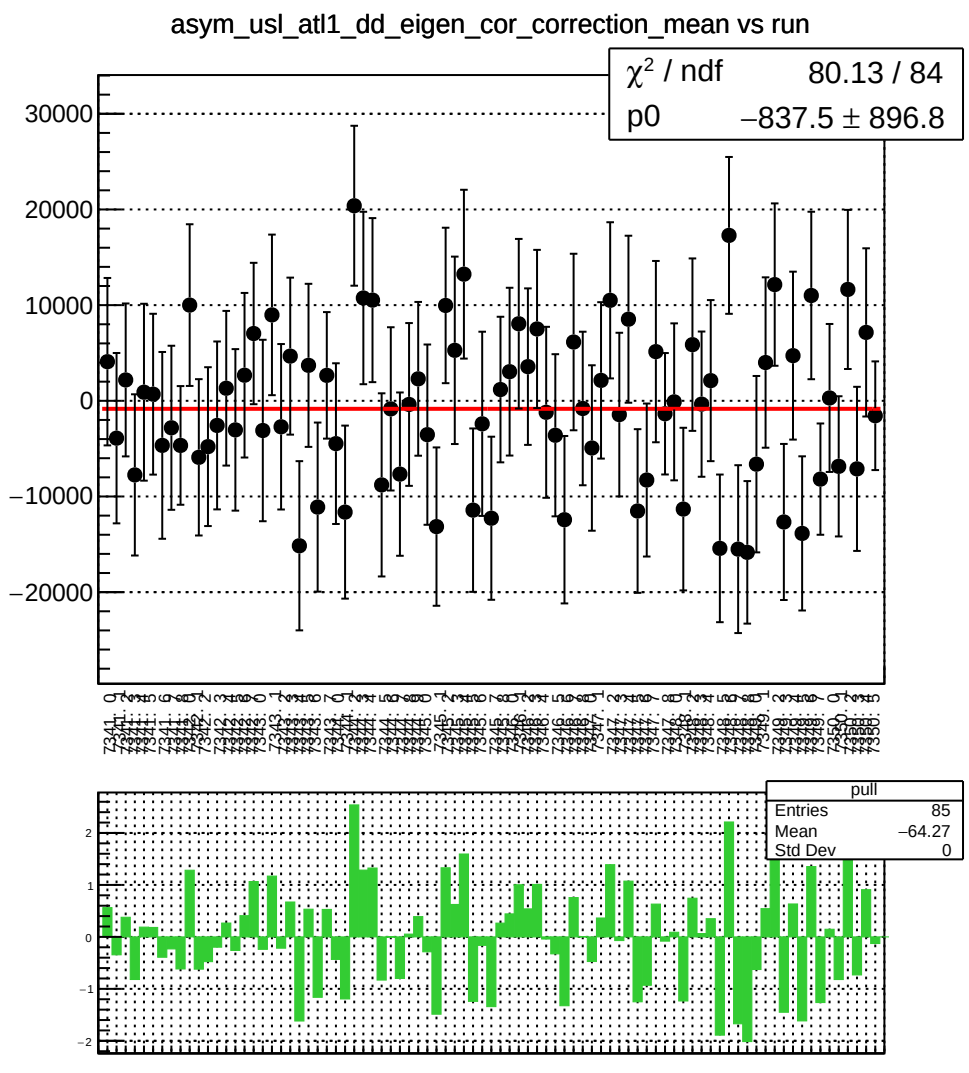

pull1D
Entries 85
Mean 0.01195
Std Dev 0.9709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

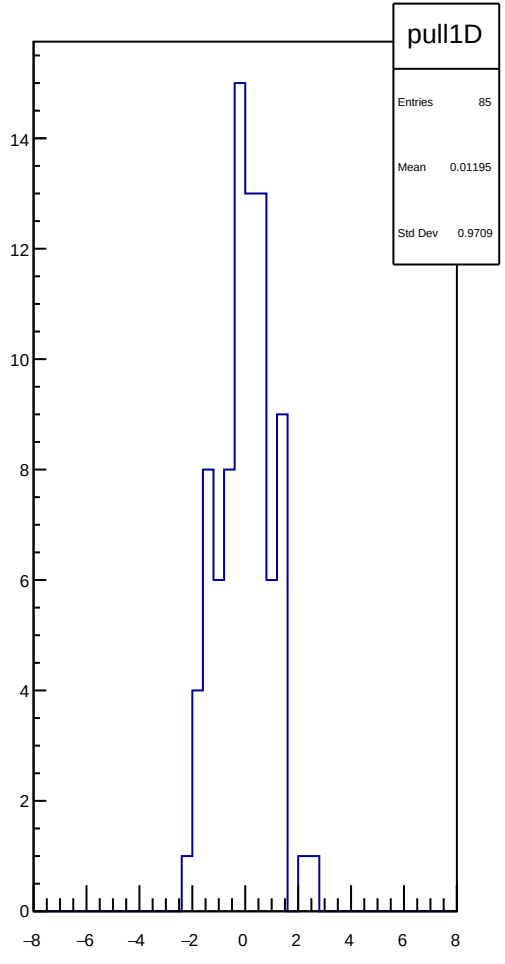

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 5090 / 84
p0 805 ± 0.6342
950
900
850
800
750
700

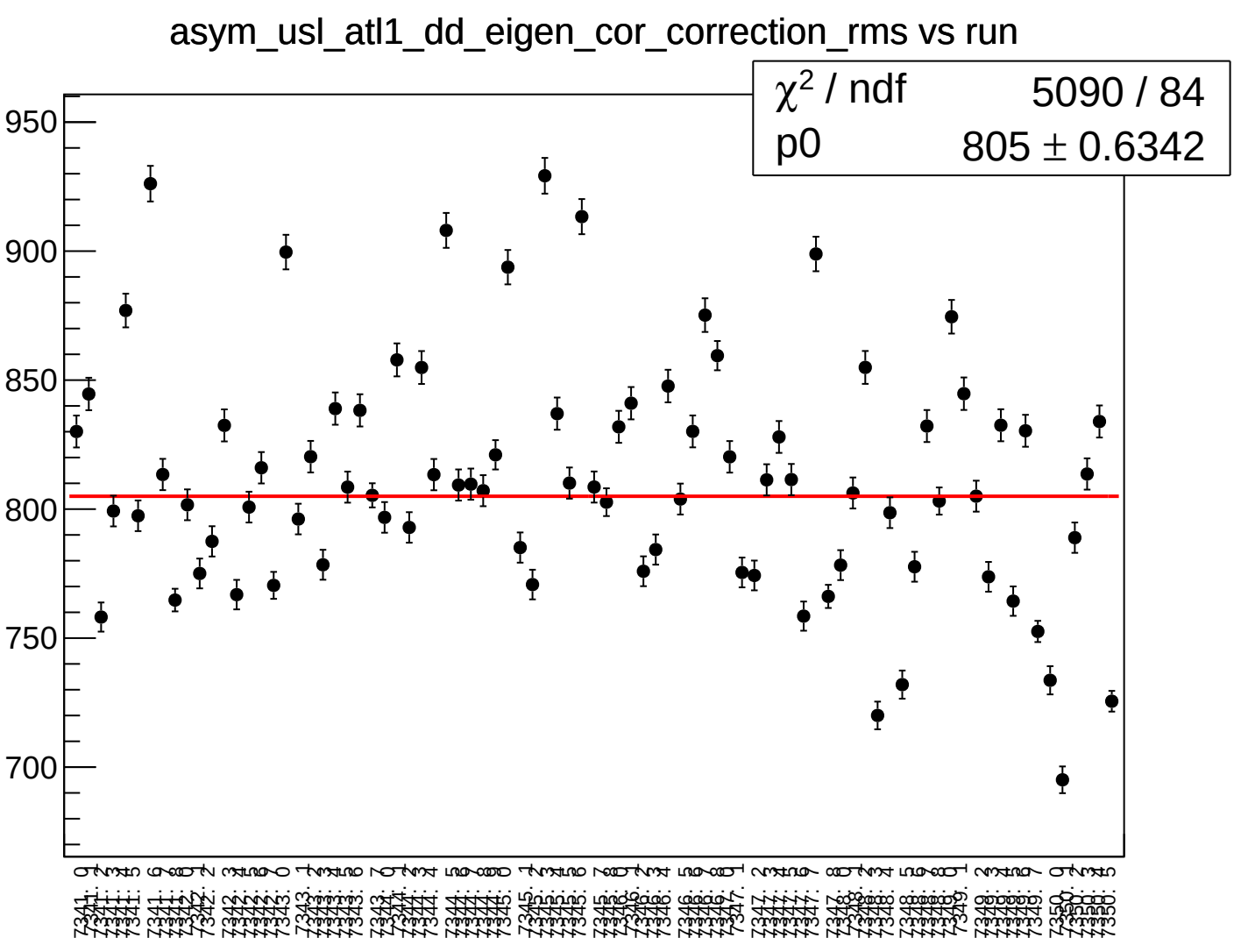

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 60.54 / 84
p0 −187.3 ± 1231
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −89.11
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

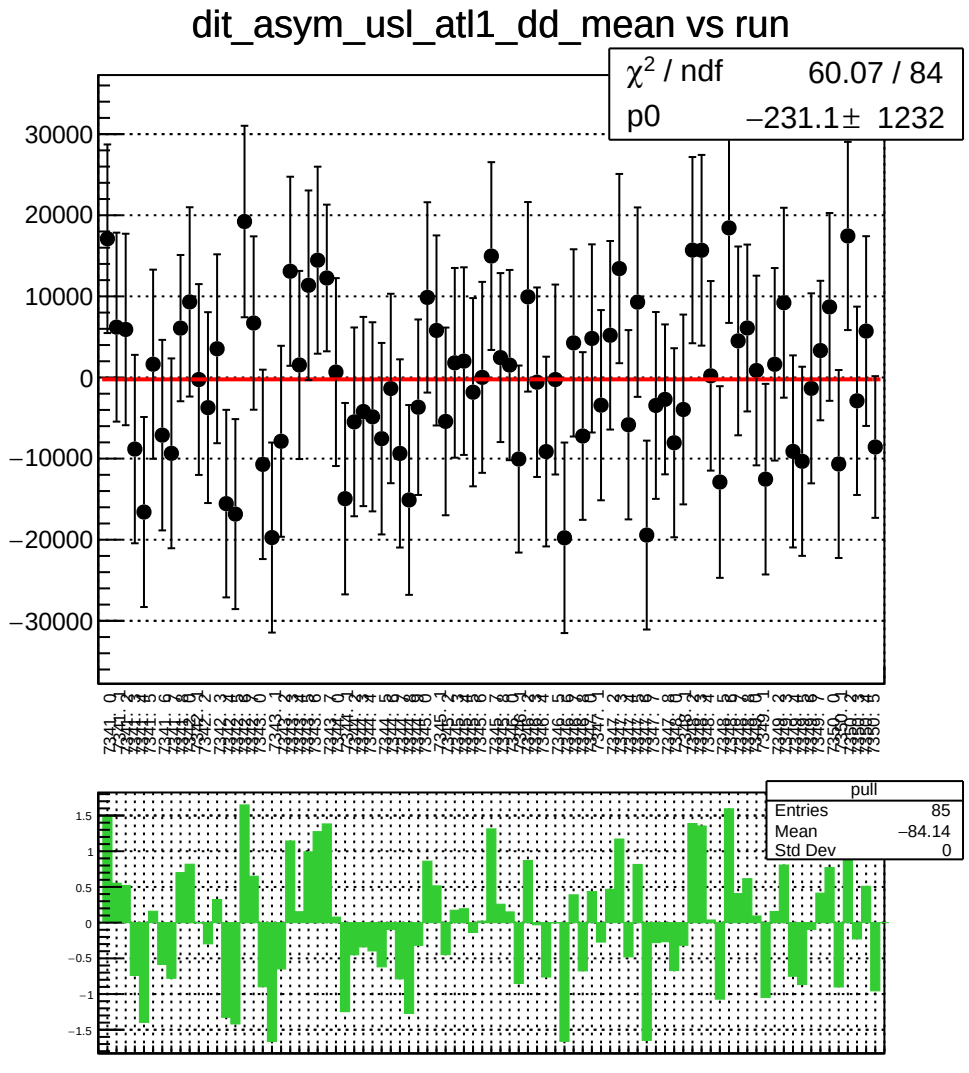

pull1D
Entries 85
Mean −0.005254
Std Dev 0.8439
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

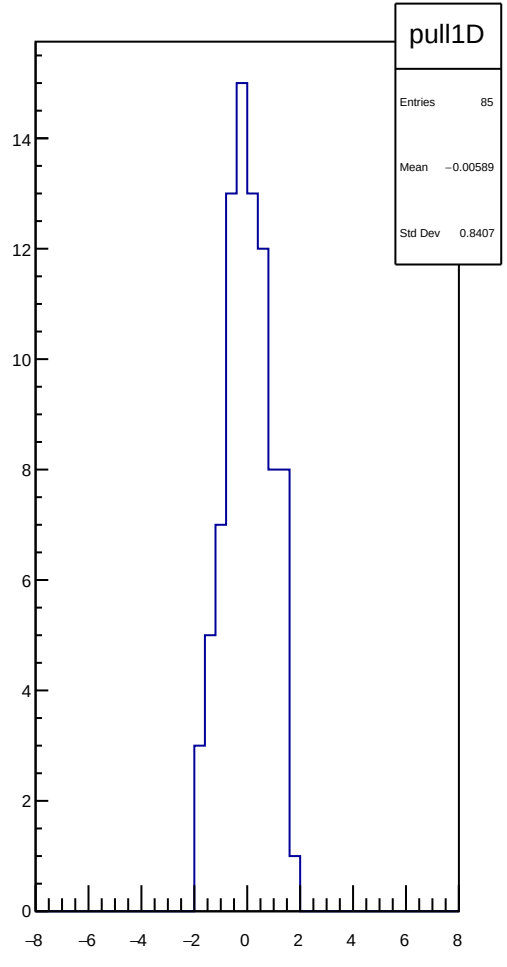

eigen_cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 69.41 / 84
p0 1107 ± 0.8707
1130
1120
1110
1100
1090
1080

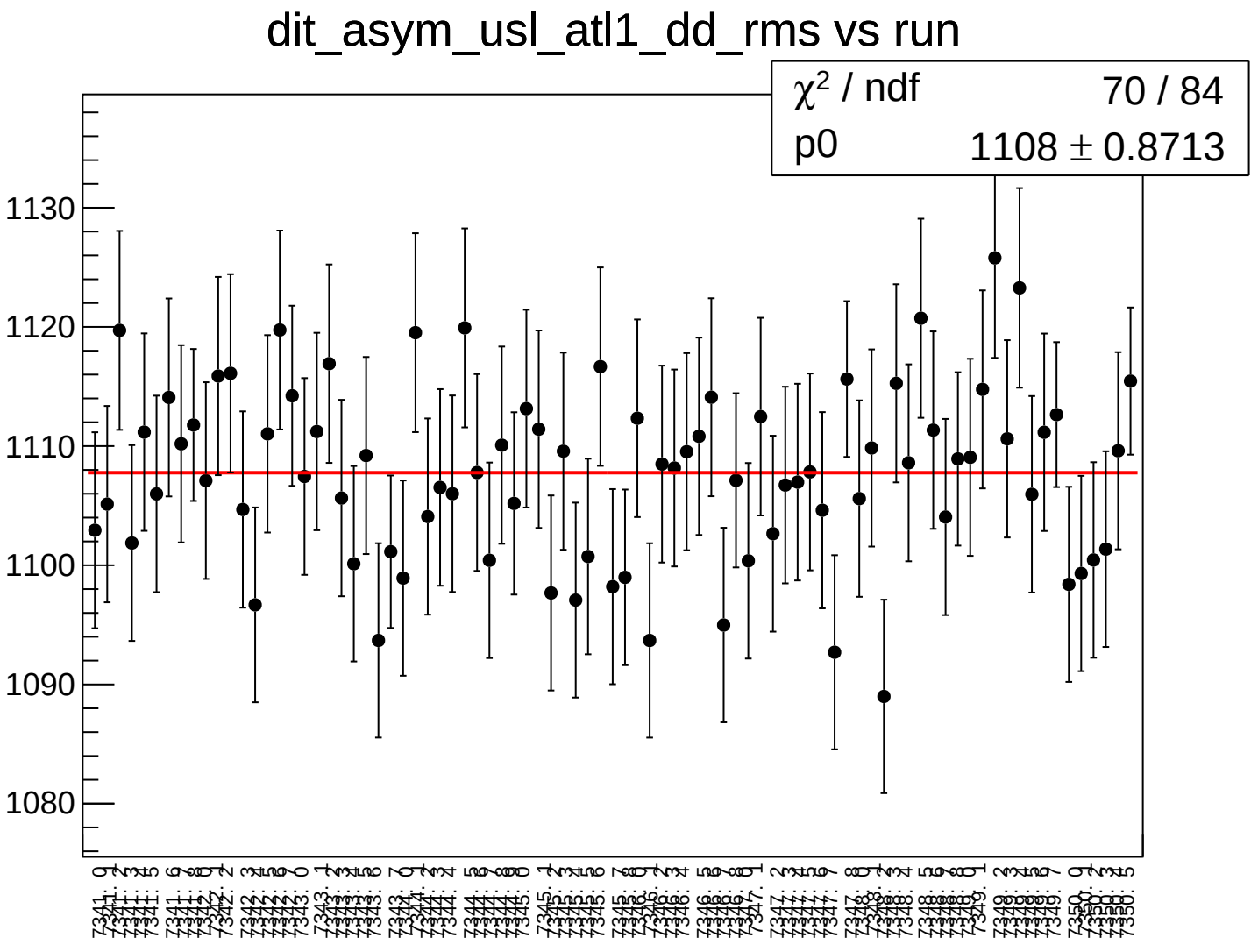

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.13 / 84
p0 −837.5 ± 896.8
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −64.27
Std Dev 0
2
1
0
−1
−2

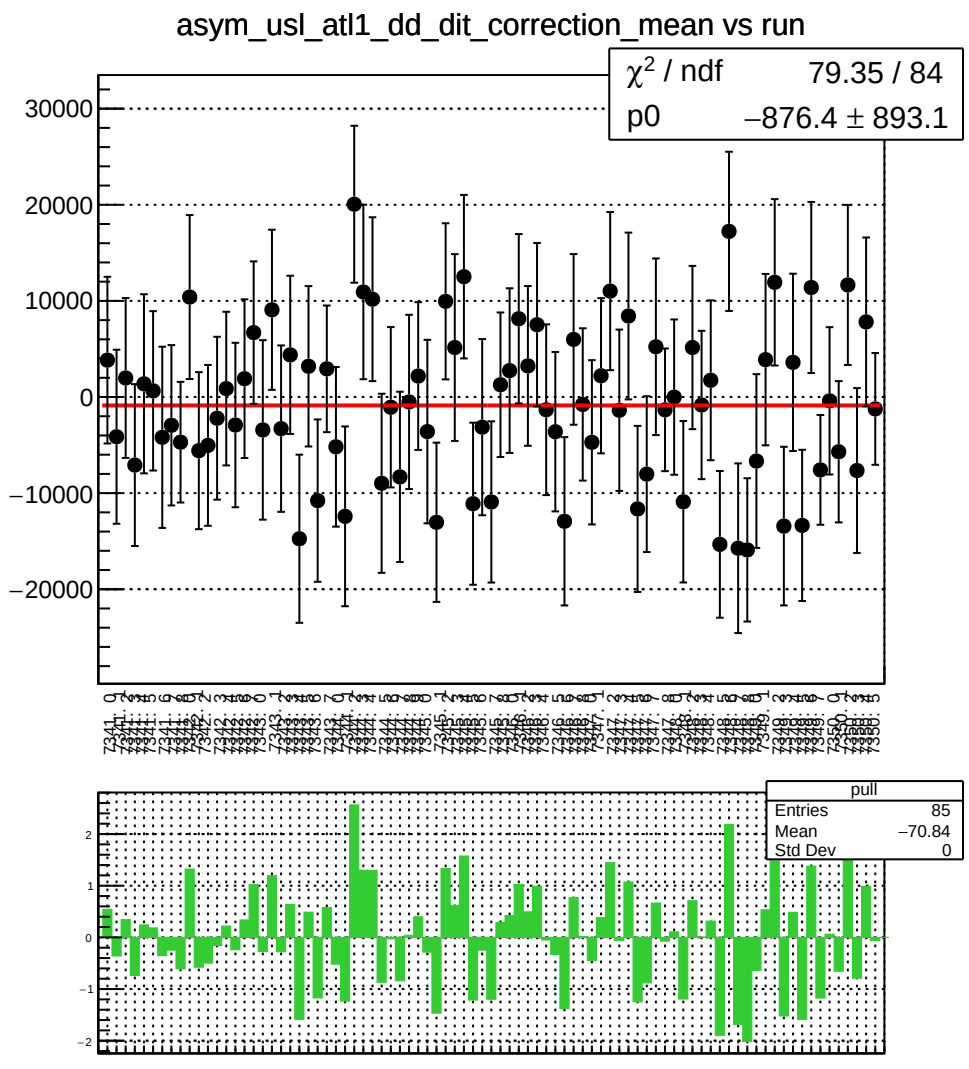

pull1D
Entries 85
Mean 0.01195
Std Dev 0.9709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

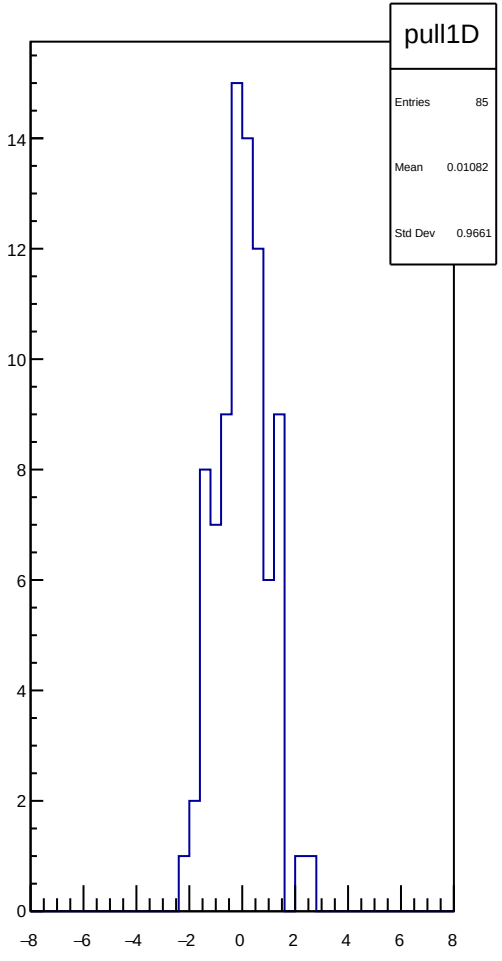

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 5090 / 84
p0 805 ± 0.6342
950
900
850
800
750
700

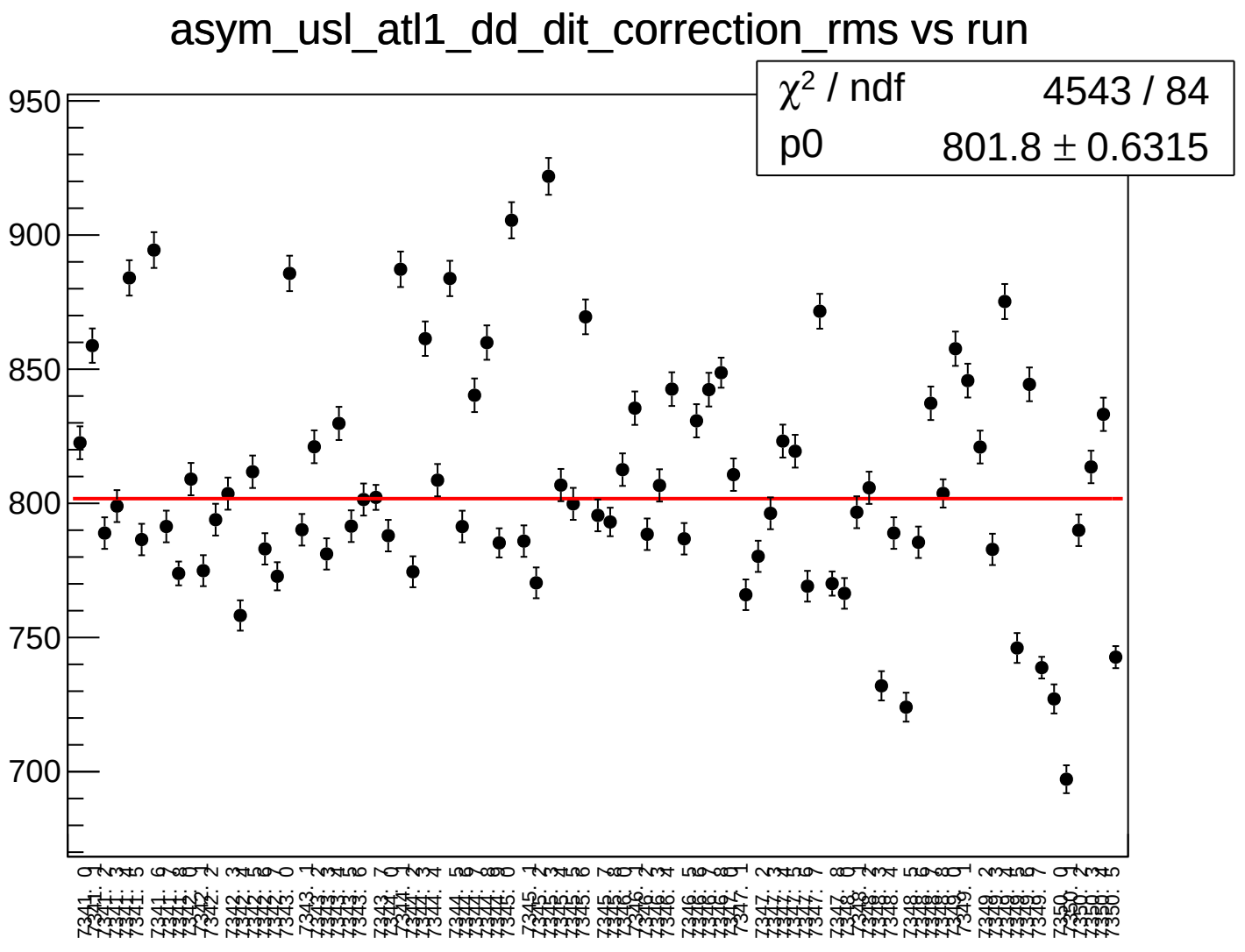

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 60.07 / 84
p0 −231.1± 1232
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −84.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

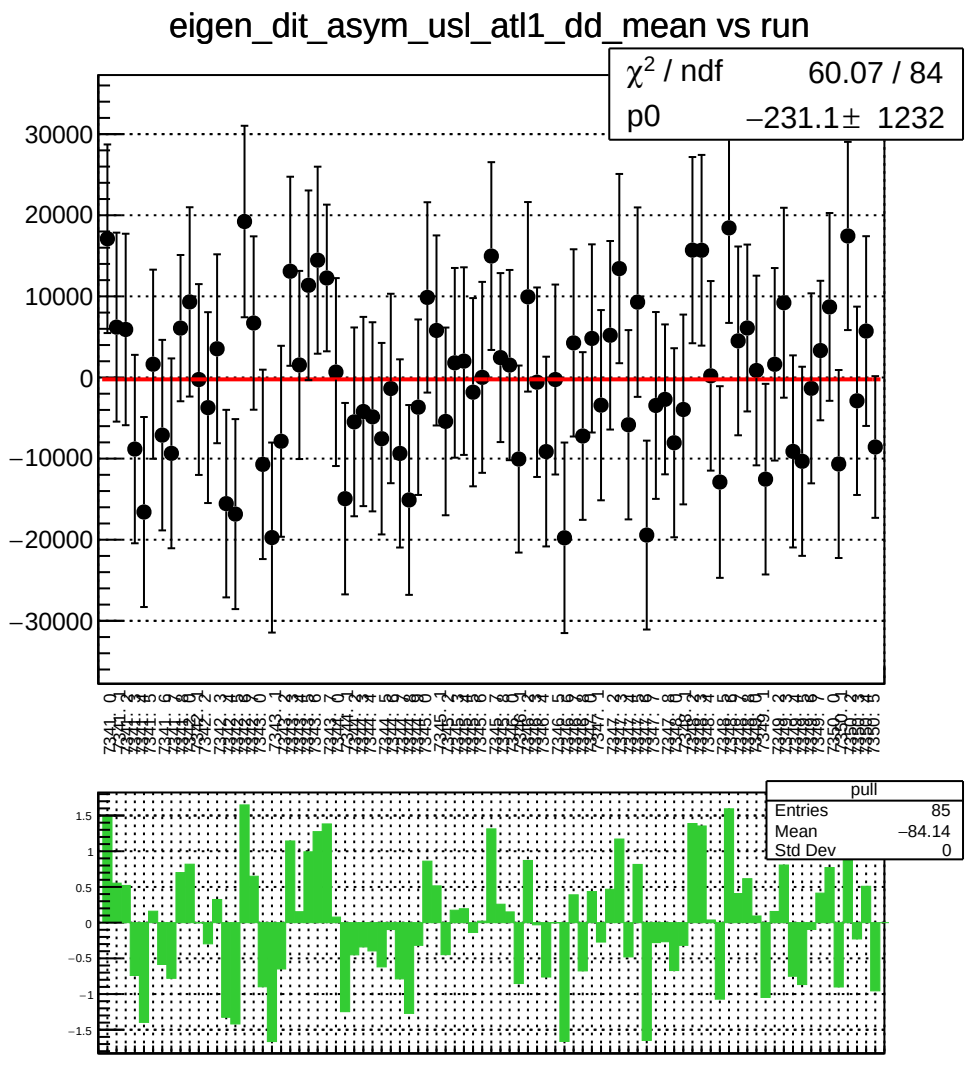

pull1D
Entries 85
Mean −0.00589
Std Dev 0.8407
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

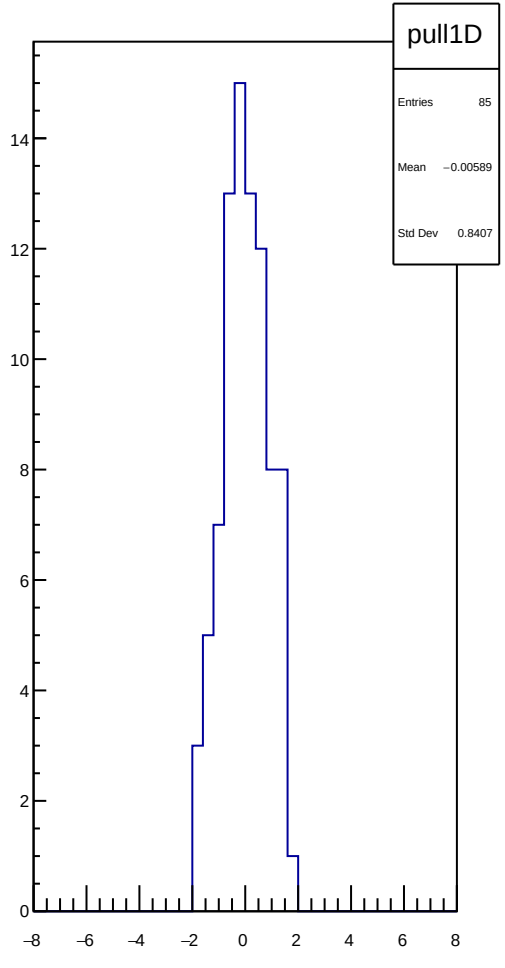

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 70 / 84
p0 1108 ± 0.8713
1130
1120
1110
1100
1090
1080

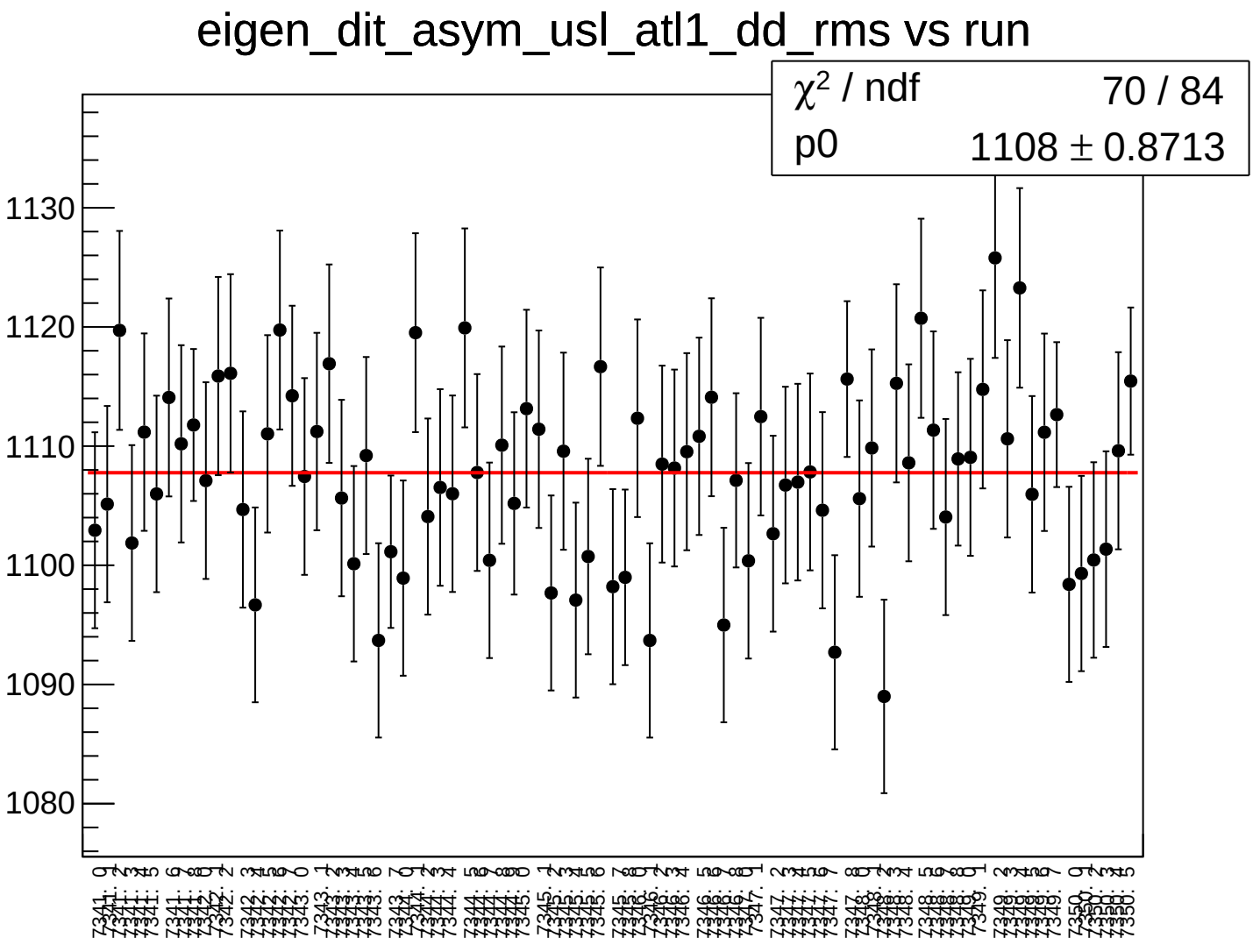

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 79.35 / 84
p0 −876.4 ± 893.1
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −70.84
Std Dev 0
2
1
0
−1
−2

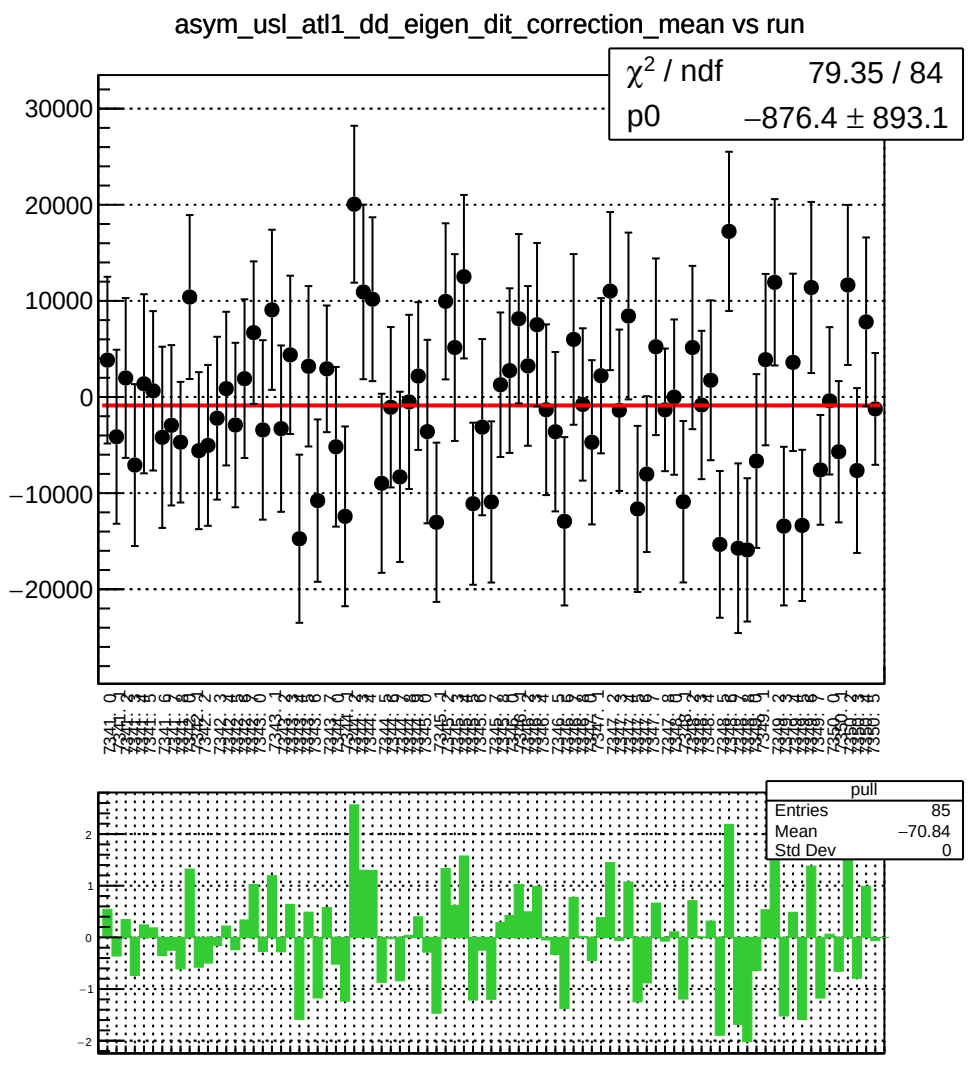

pull1D
Entries 85
Mean 0.01082
Std Dev 0.9661
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

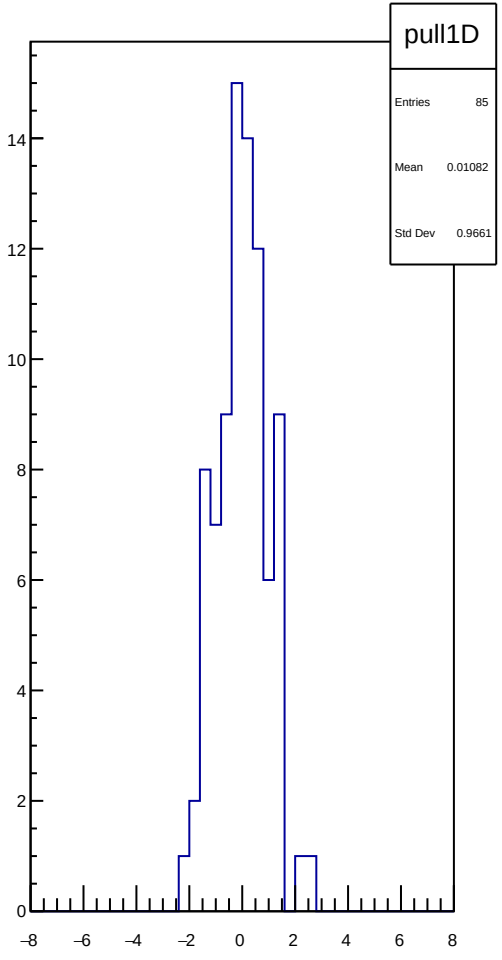

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 4543 / 84
p0 801.8 ± 0.6315
950
900
850
800
750
700

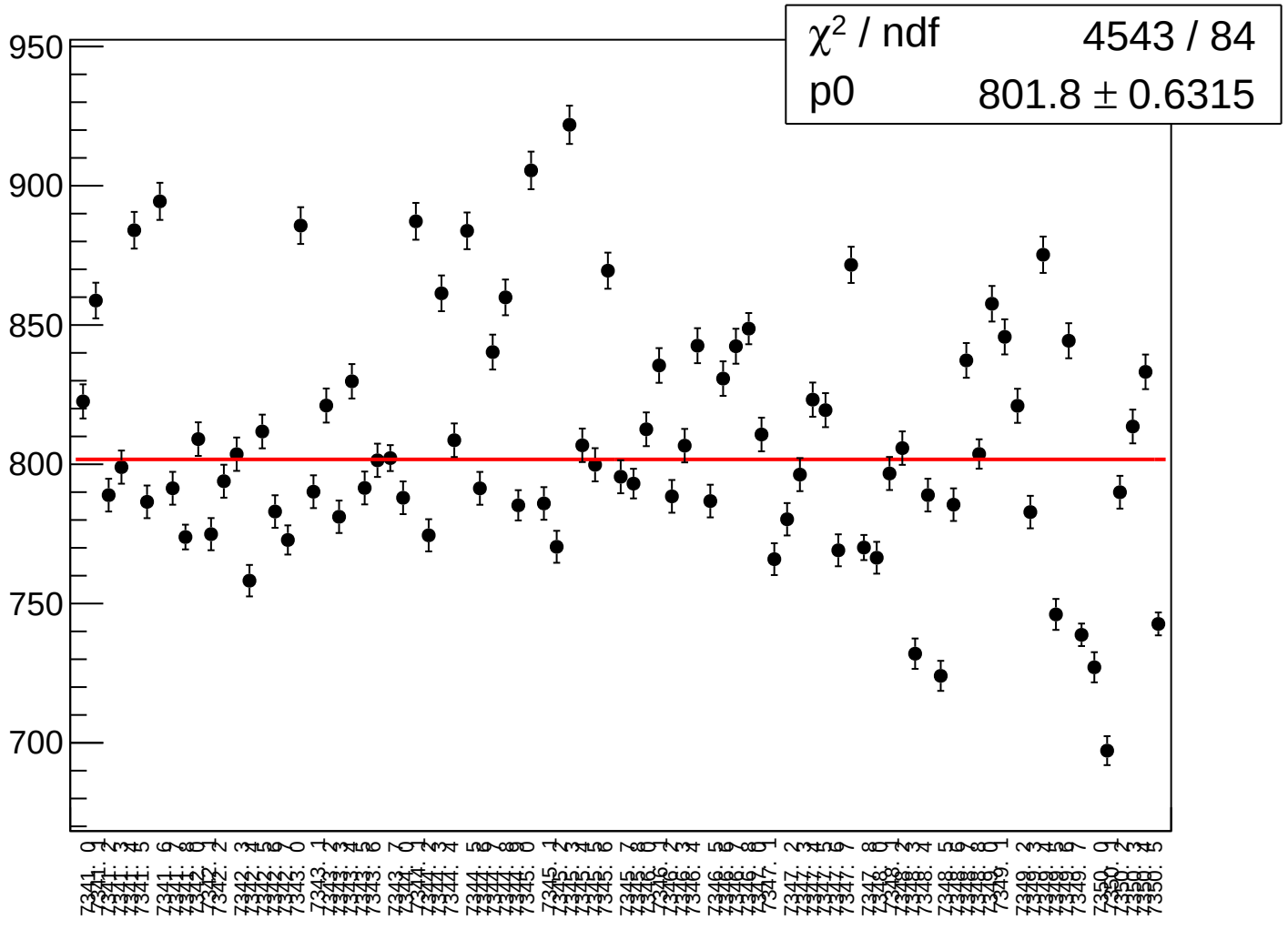

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 60.07 / 84
p0 −231.1± 1232
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −84.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

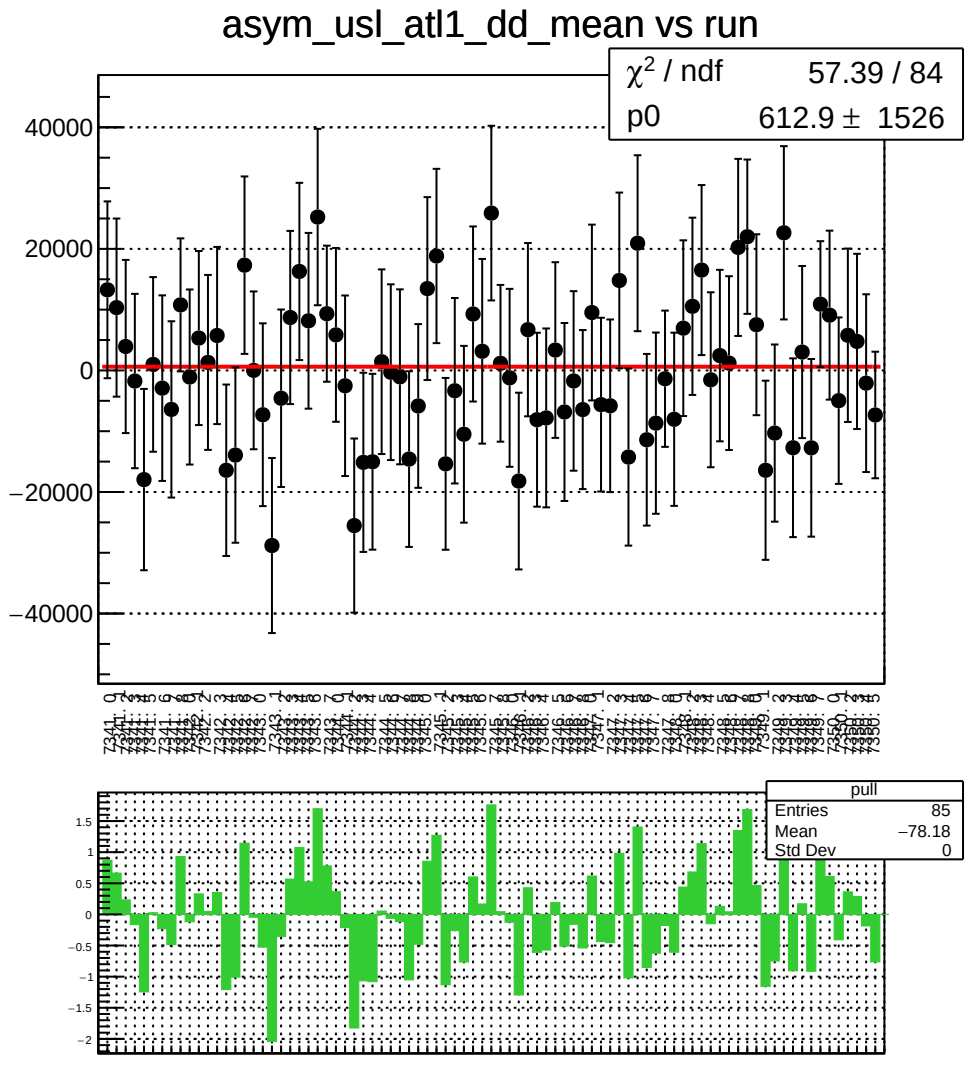

pull1D
Entries 85
Mean −0.00589
Std Dev 0.8407
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

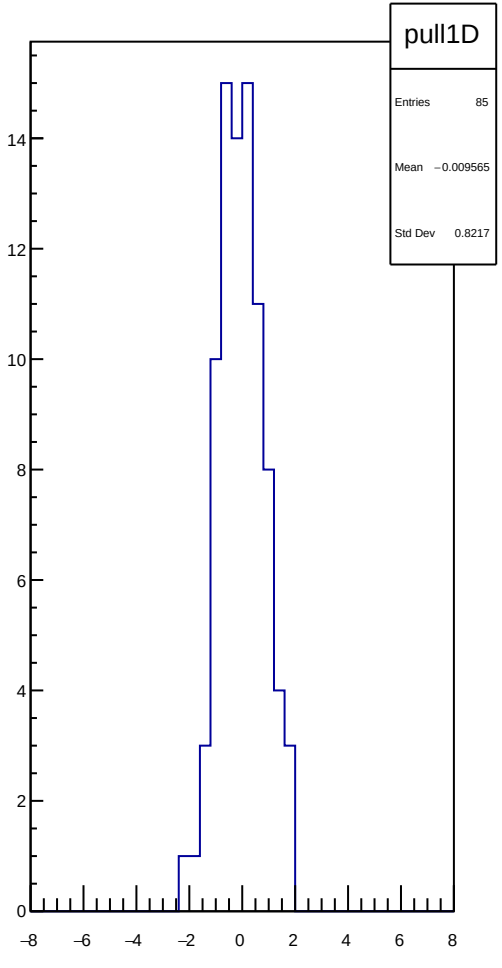

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 70 / 84
p0 1108 ± 0.8713
1130
1120
1110
1100
1090
1080

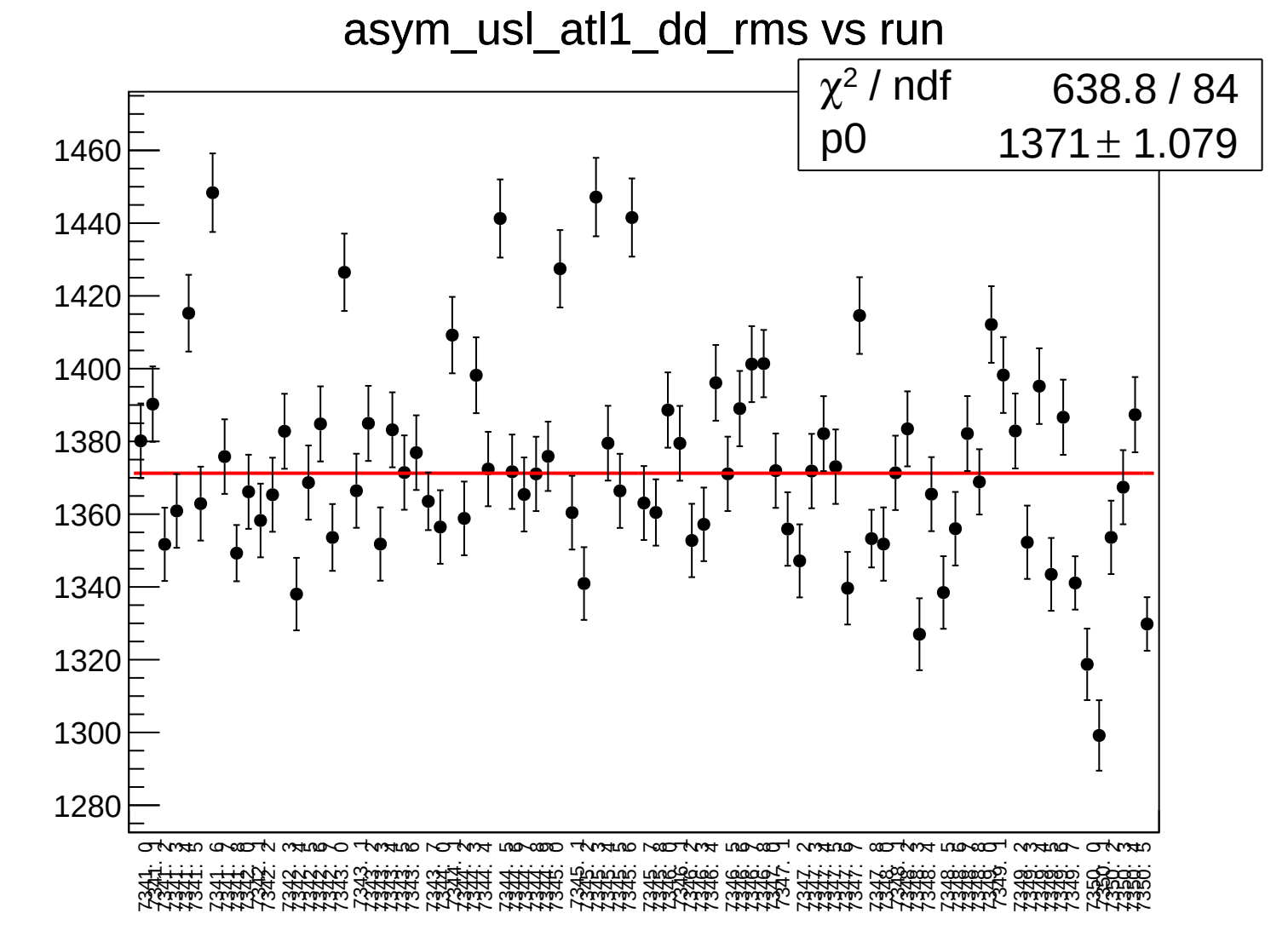

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.35 / 84
p0 −876.4 ± 893.1
30000
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −70.84
Std Dev 0
2
1
0
−1
−2

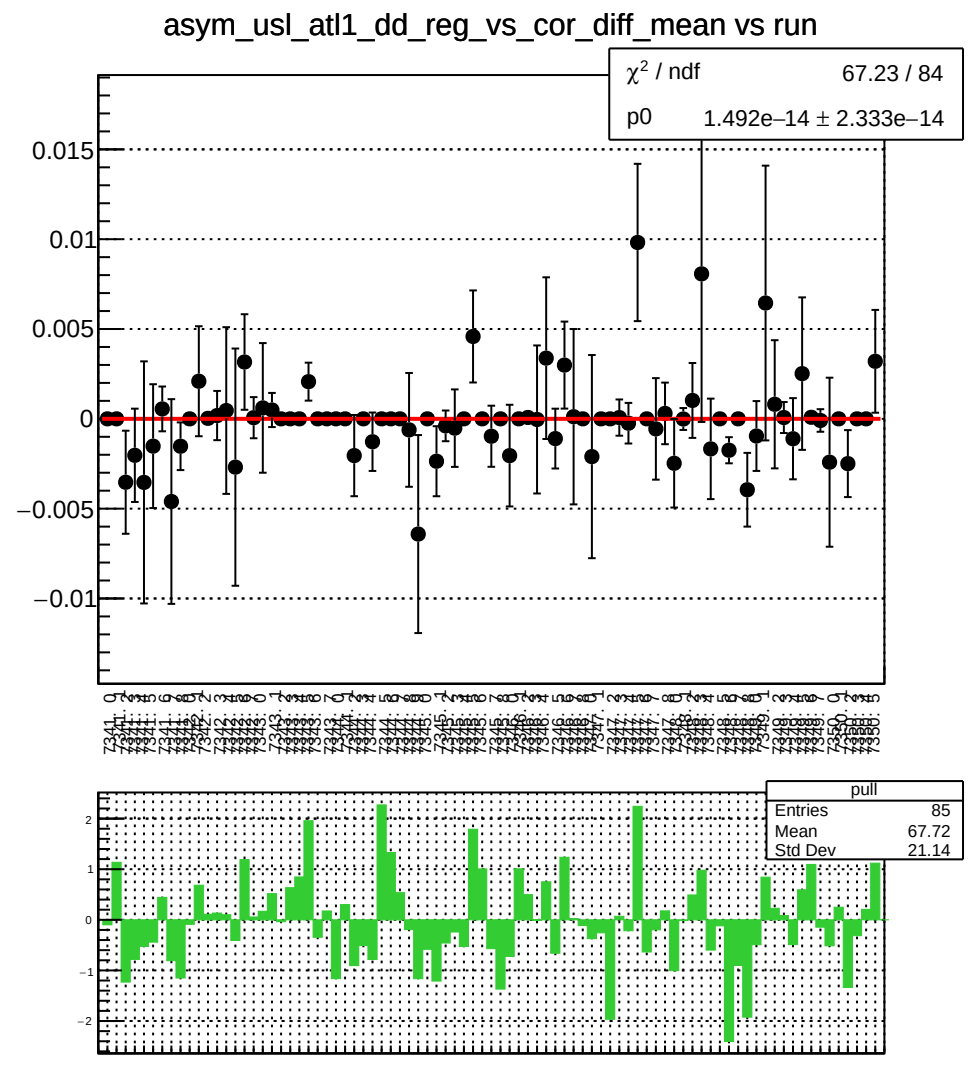

pull1D
Entries 85
Mean 0.01082
Std Dev 0.9661
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

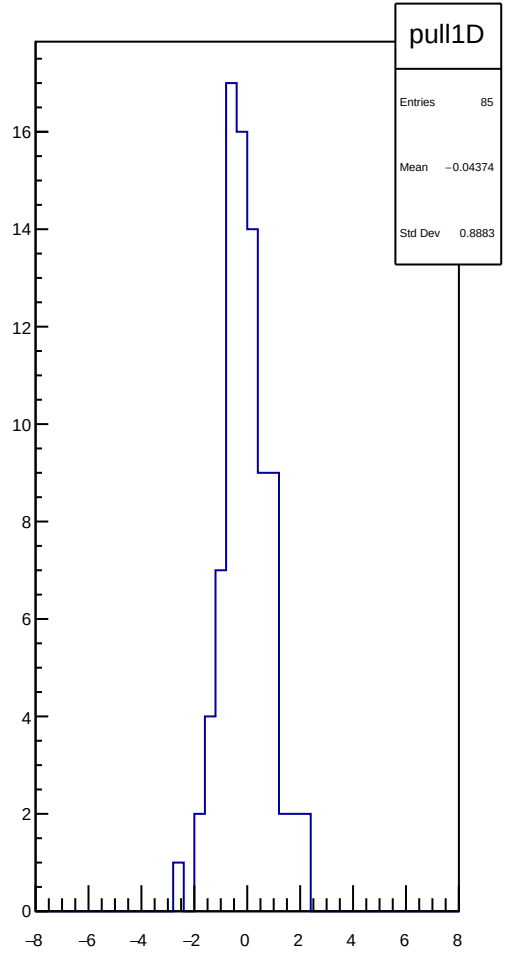

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4543 / 84
p0 801.8 ± 0.6315
950
900
850
800
750
700

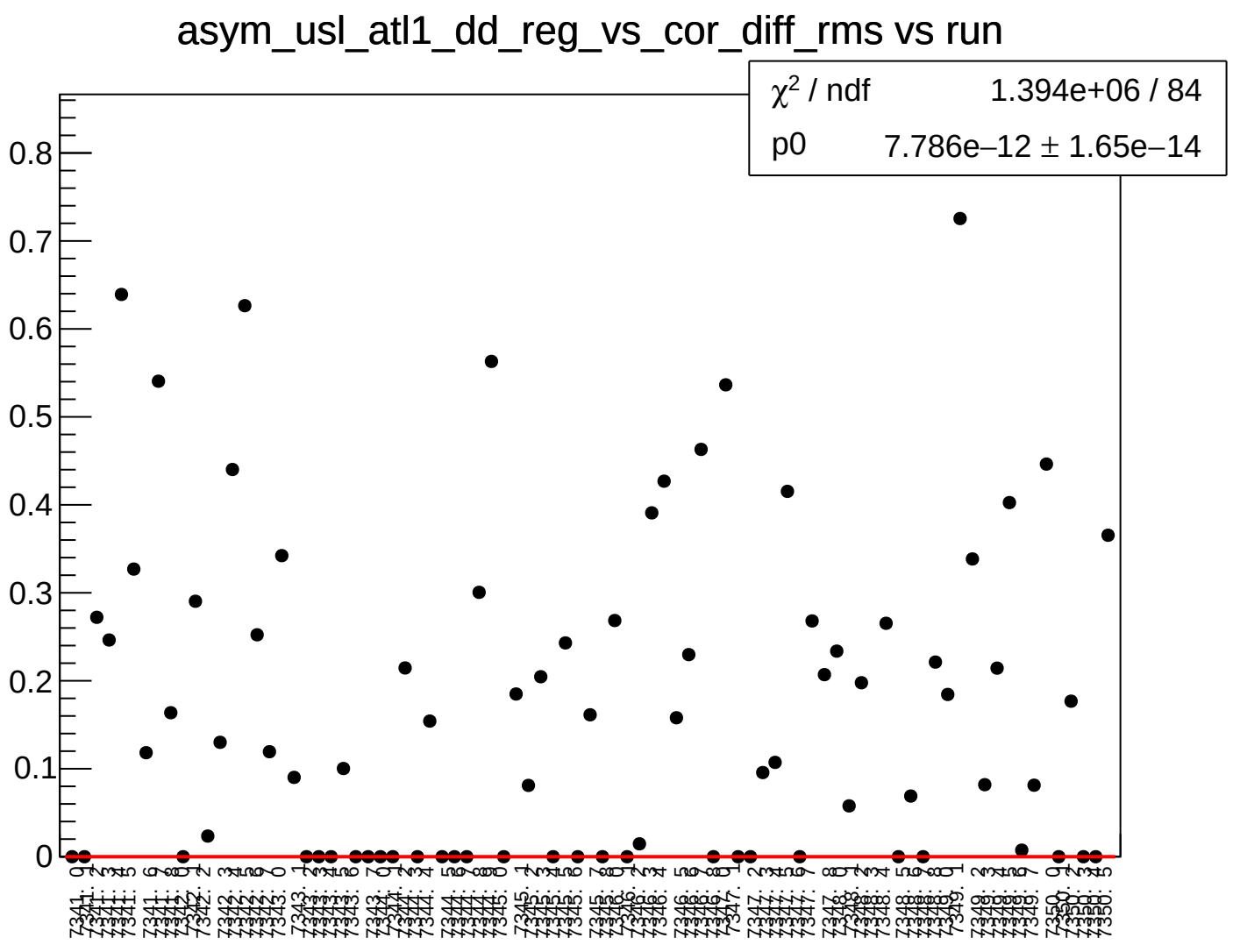

asym_usl_atl1_dd_mean vs run
χ² / ndf 57.39 / 84
p0 612.9 ± 1526
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −78.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

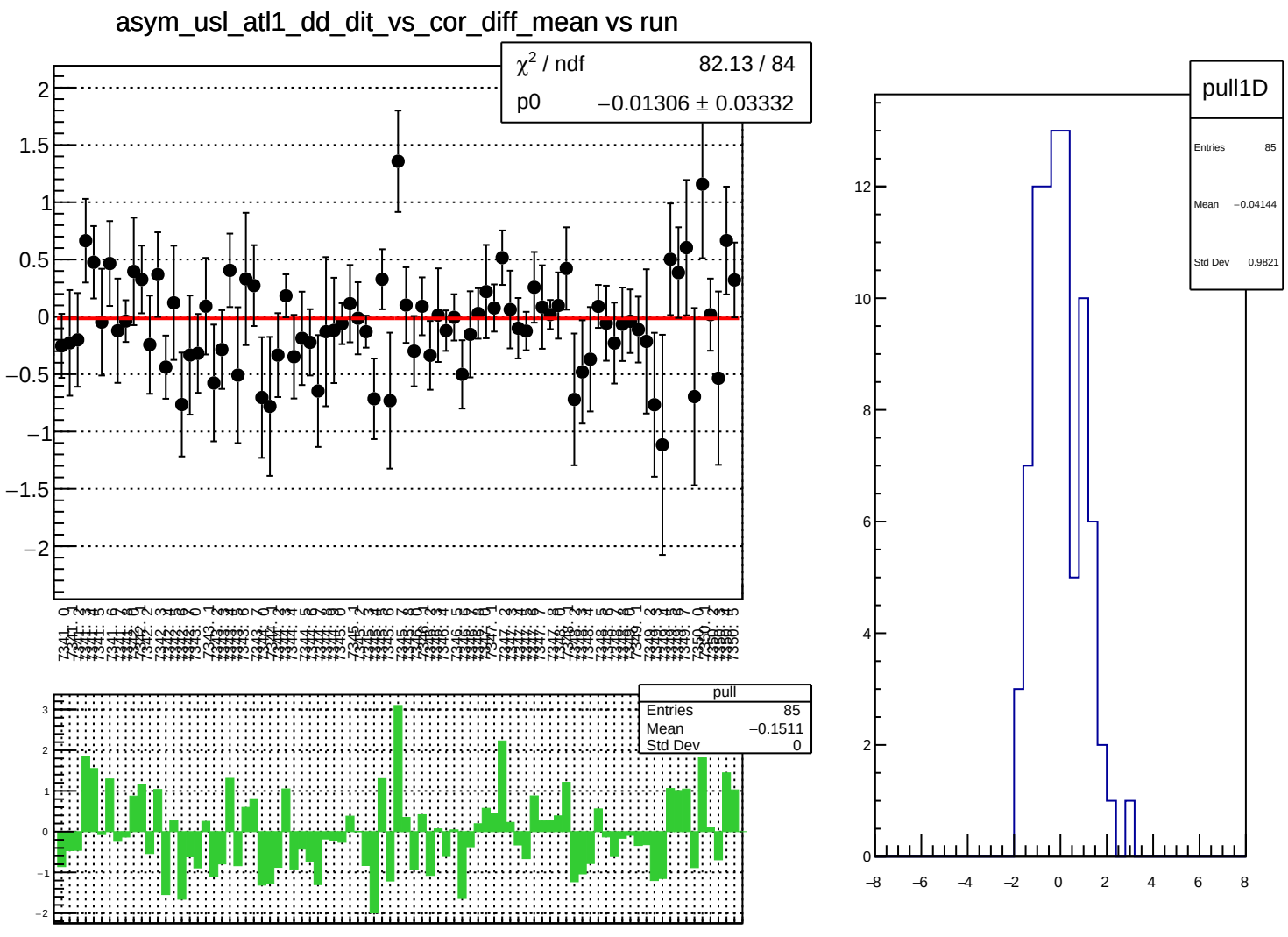

pull1D
Entries 85
Mean −0.009565
Std Dev 0.8217
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

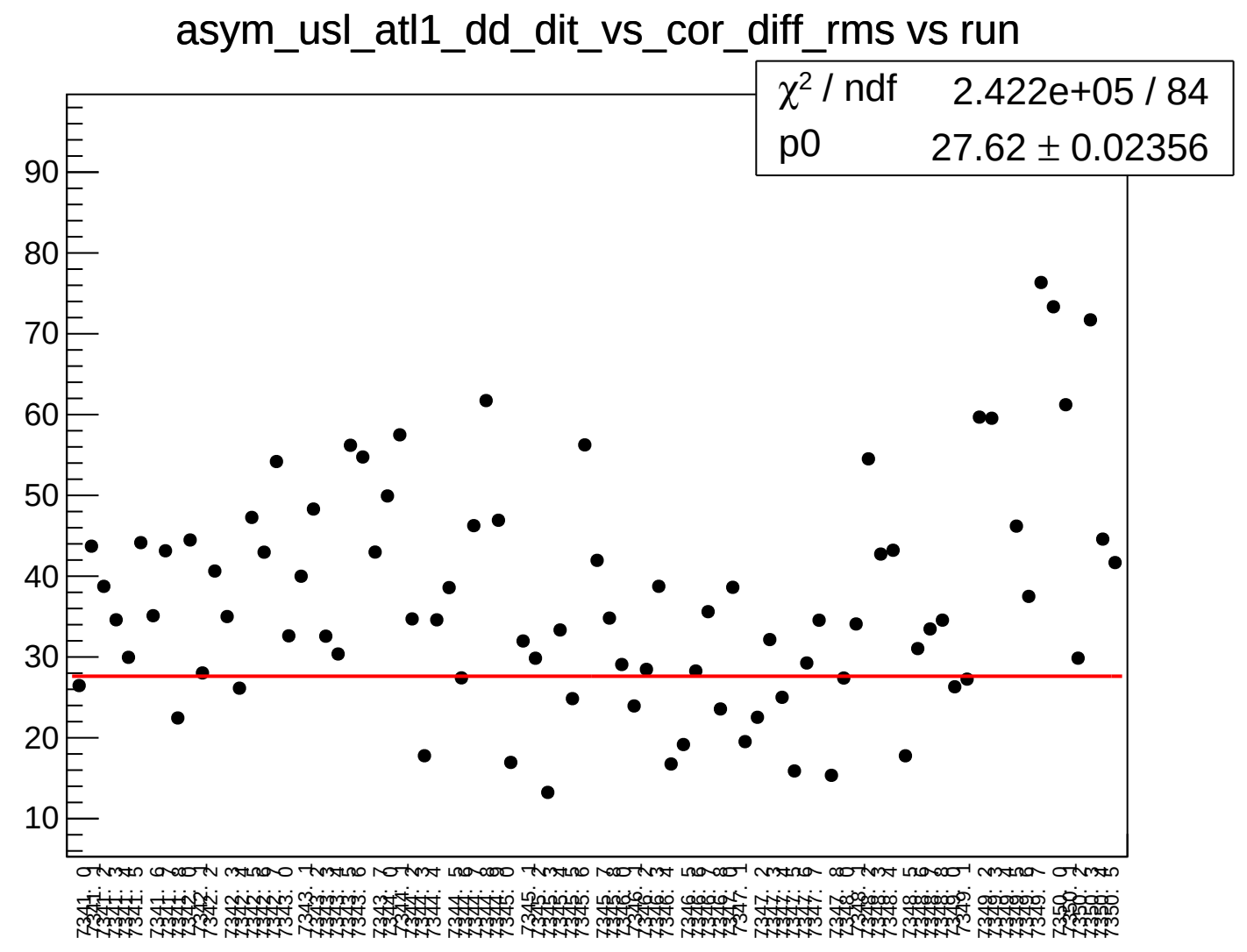

asym_usl_atl1_dd_rms vs run
χ² / ndf 638.8 / 84
p0 1371 ± 1.079
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

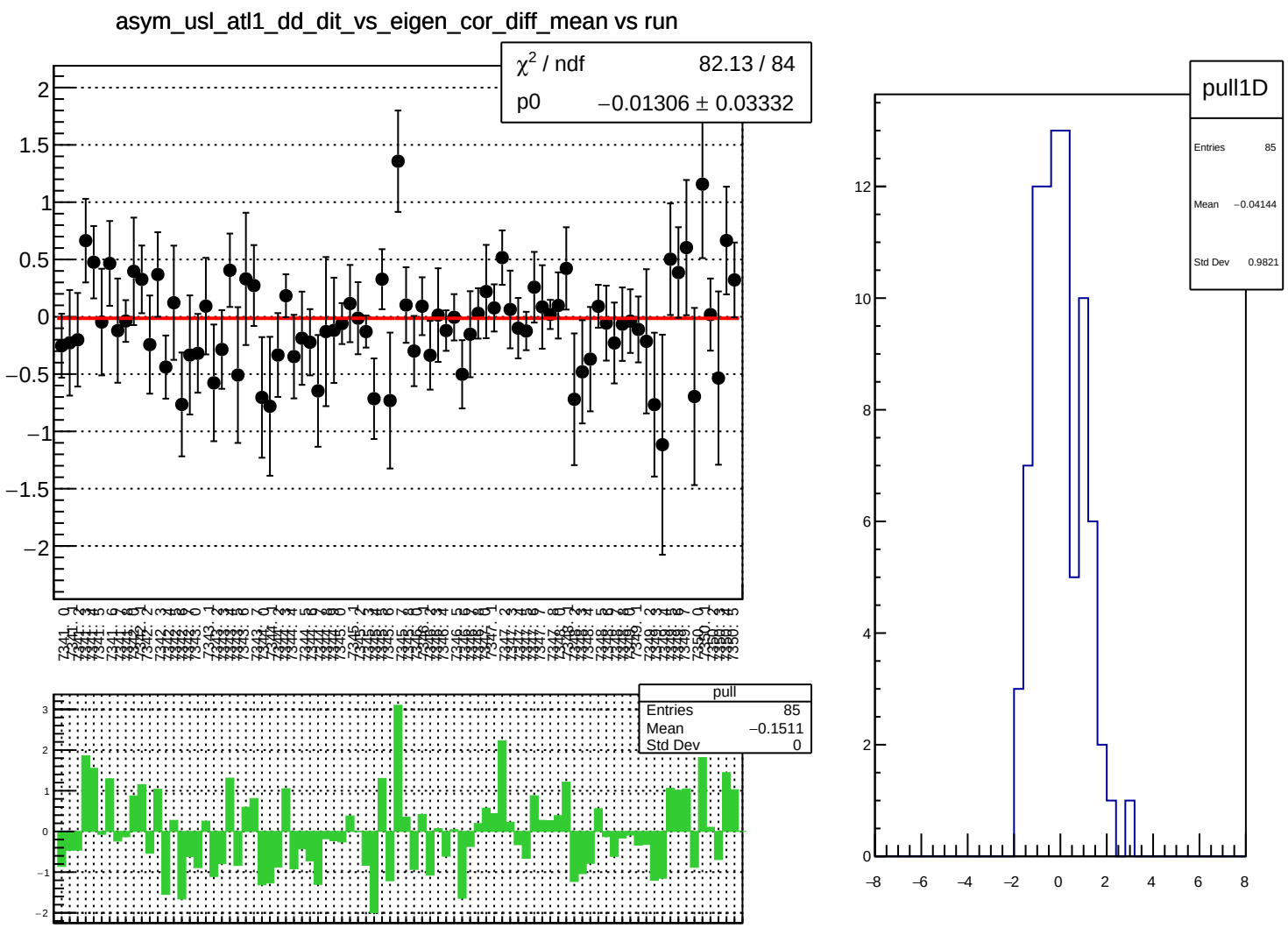

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 67.23 / 84
p0 1.492e−14 ± 2.333e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 85
Mean 67.72
Std Dev 21.14
2
1
0
−1
−2

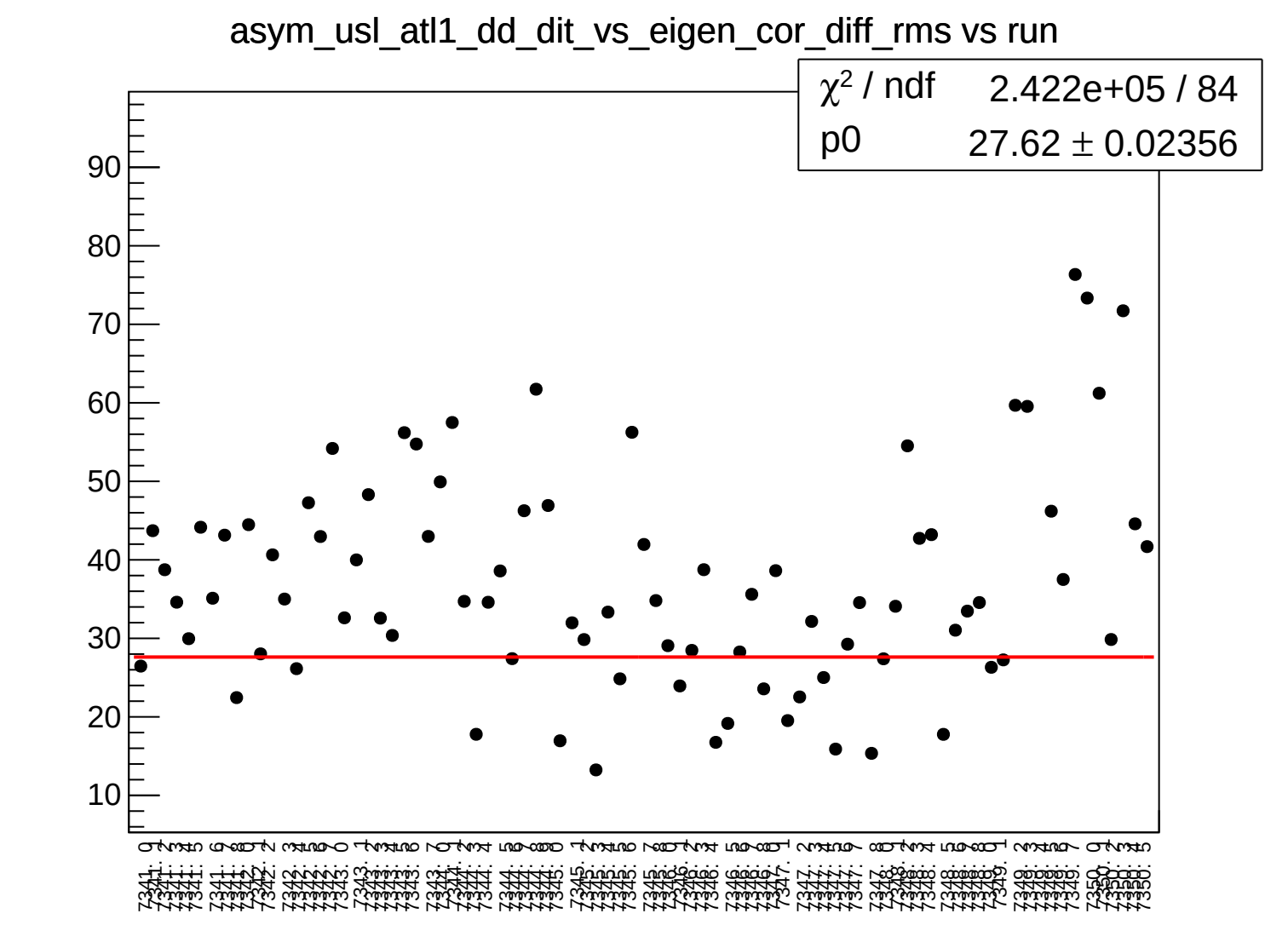

pull1D
Entries 85
Mean −0.04374
Std Dev 0.8883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

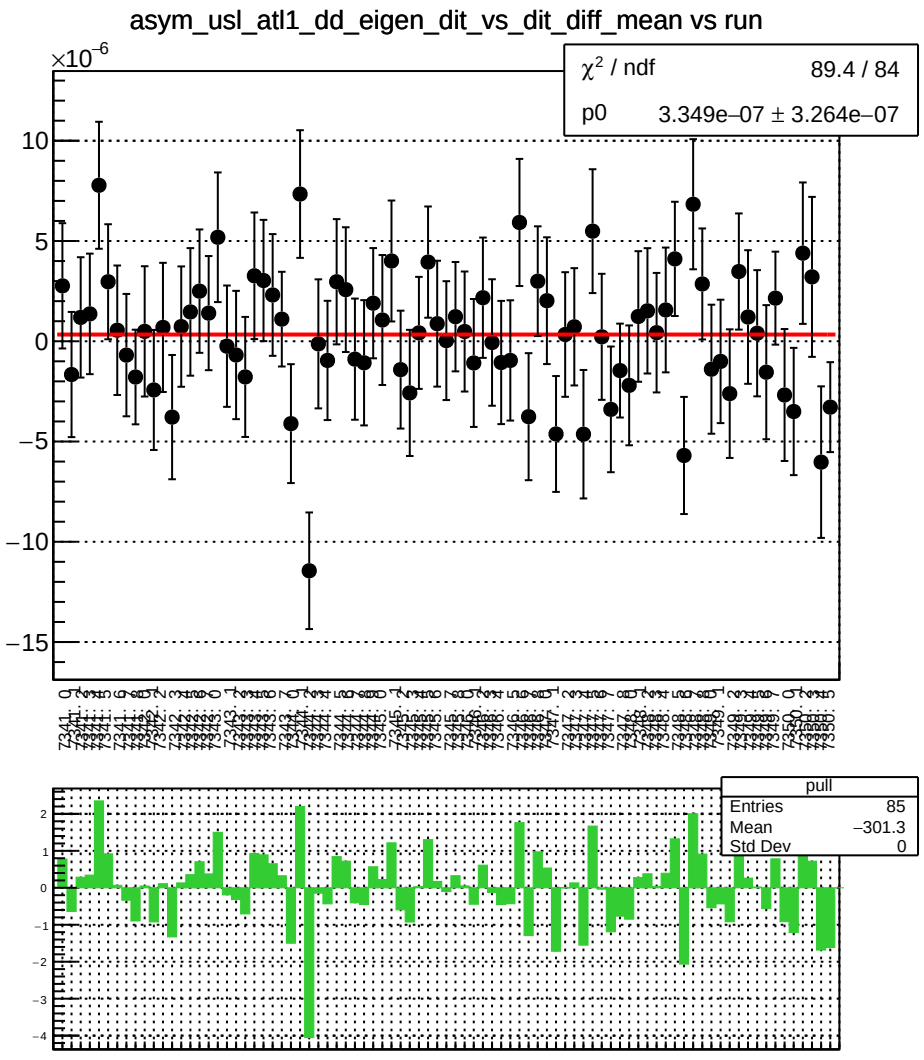

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.394e+06 / 84
p0 7.786e−12 ± 1.65e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

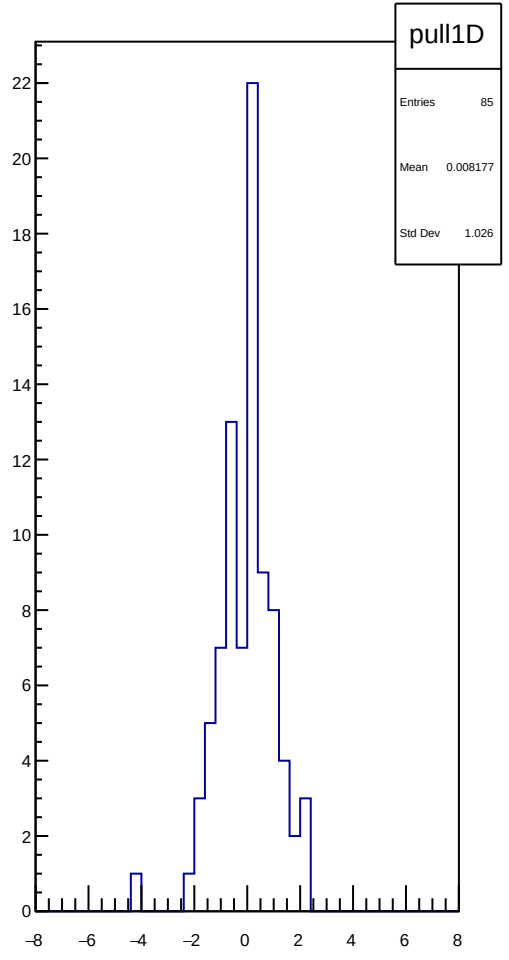

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.13 / 84
p0 −0.01306 ± 0.03332
pull
Entries 85
Mean −0.1511
Std Dev 0
pull1D
Entries 85
Mean −0.04144
Std Dev 0.9821

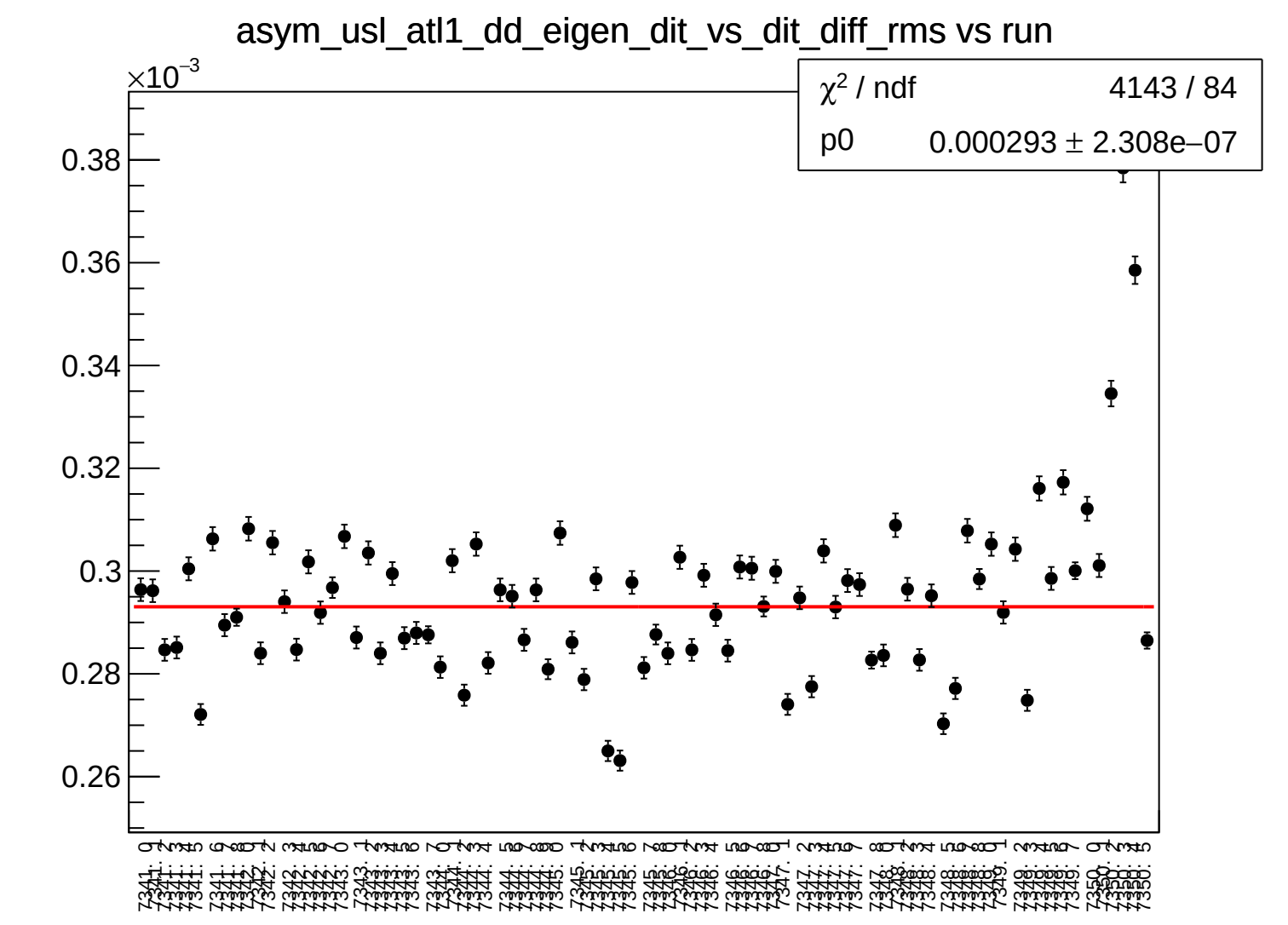

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.422e+05 / 84
p0 27.62 ± 0.02356
90
80
70
60
50
40
30
20
10

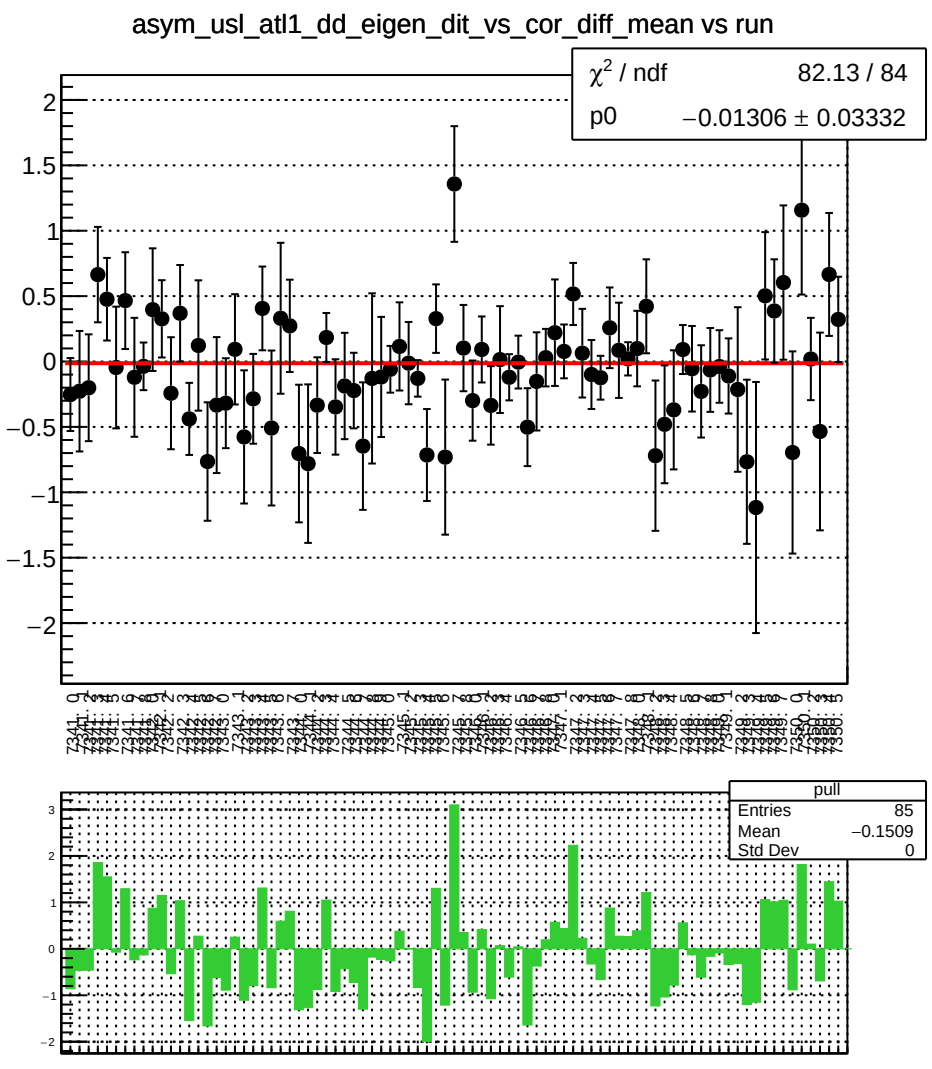

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.13 / 84
p0 −0.01306 ± 0.03332
pull
Entries 85
Mean −0.1511
Std Dev 0
pull1D
Entries 85
Mean −0.04144
Std Dev 0.9821

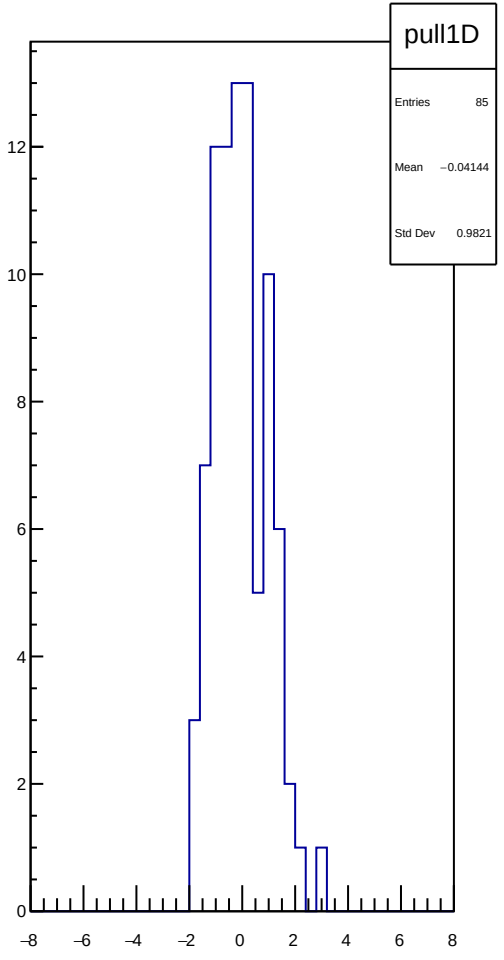

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.422e+05 / 84
p0 27.62 ± 0.02356
90
80
70
60
50
40
30
20
10

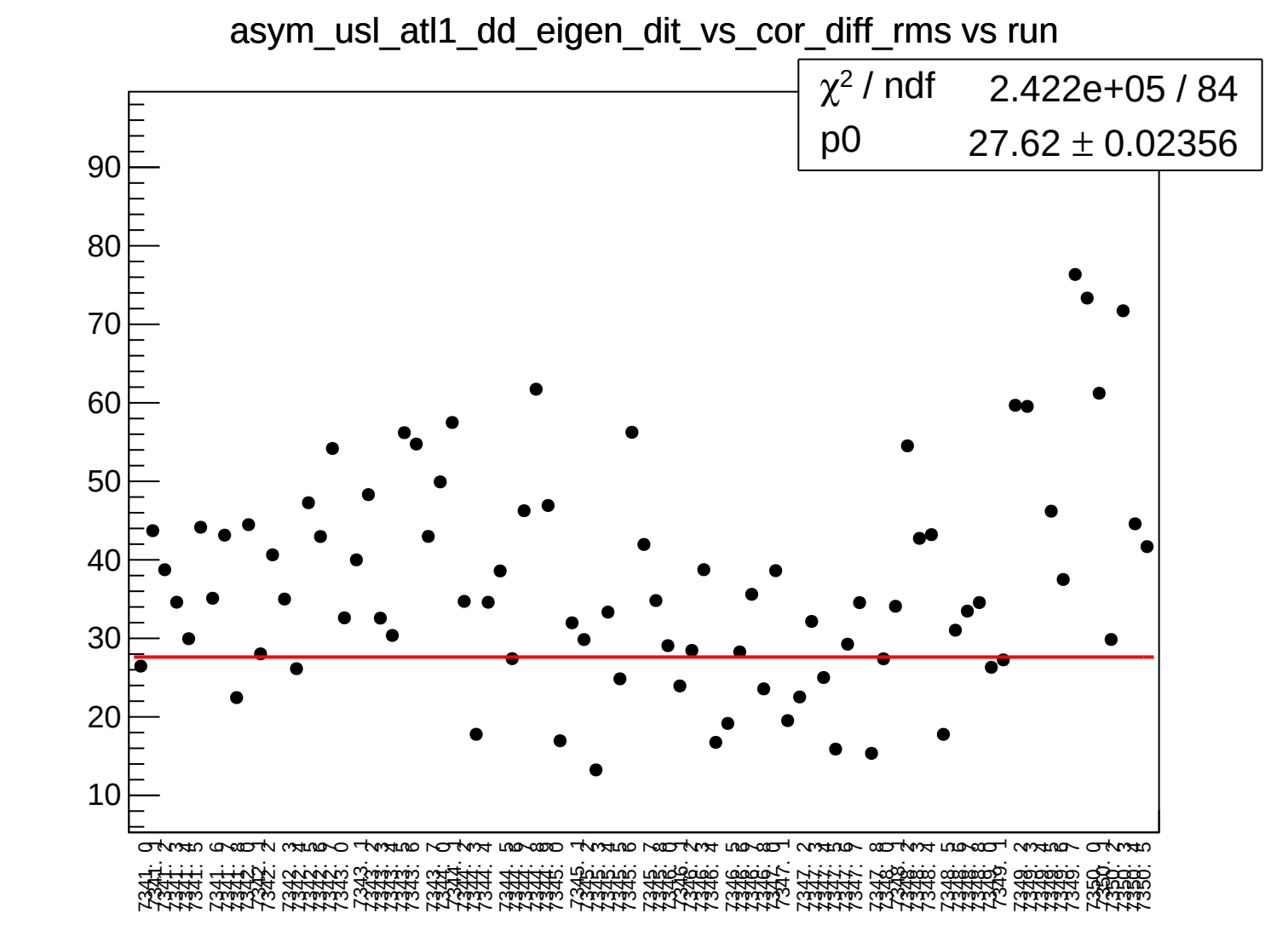

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 89.4 / 84
p0 3.349e−07 ± 3.264e−07
pull
Entries 85
Mean −301.3
Std Dev 0

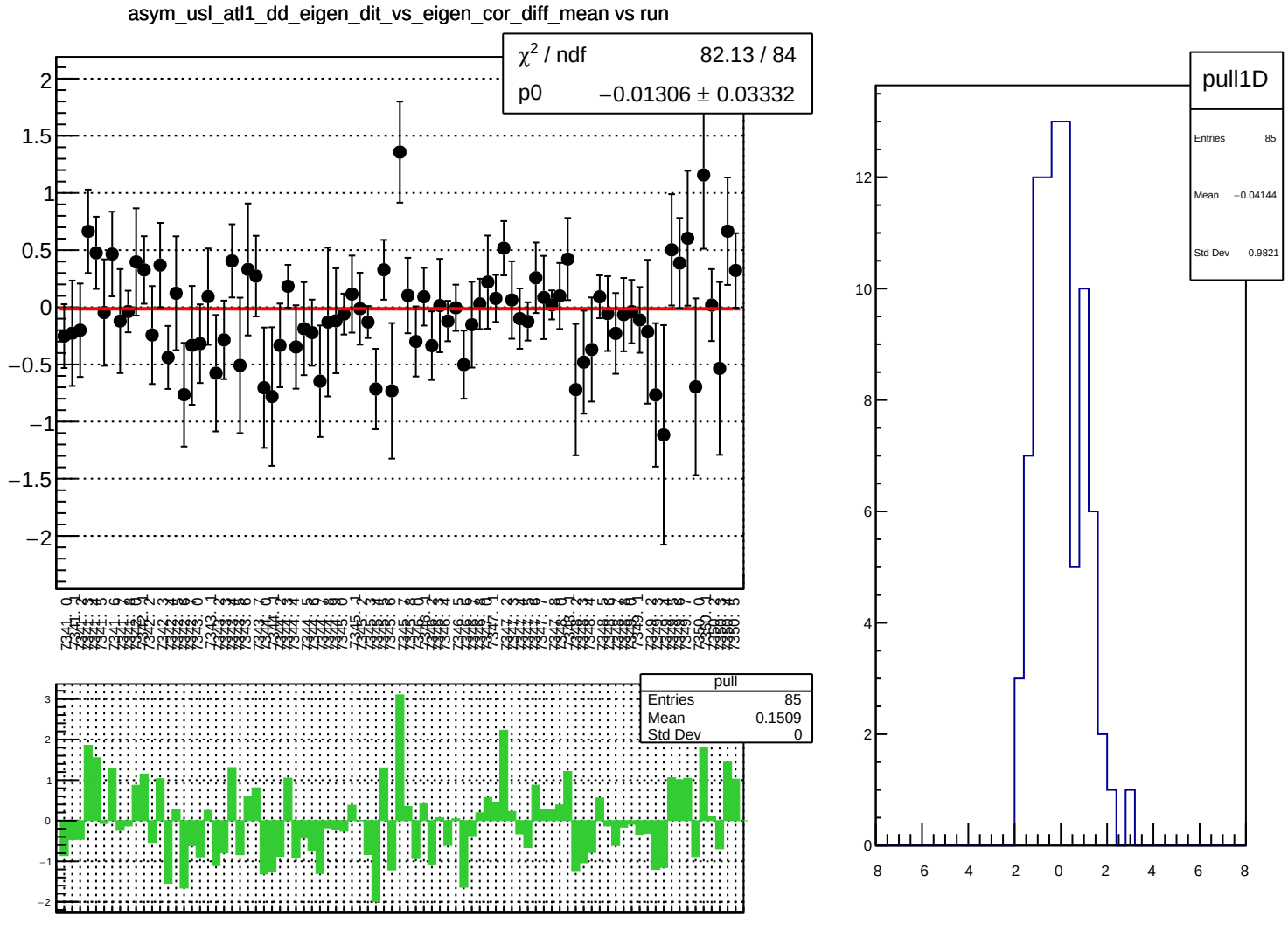

pull1D
Entries 85
Mean 0.008177
Std Dev 1.026

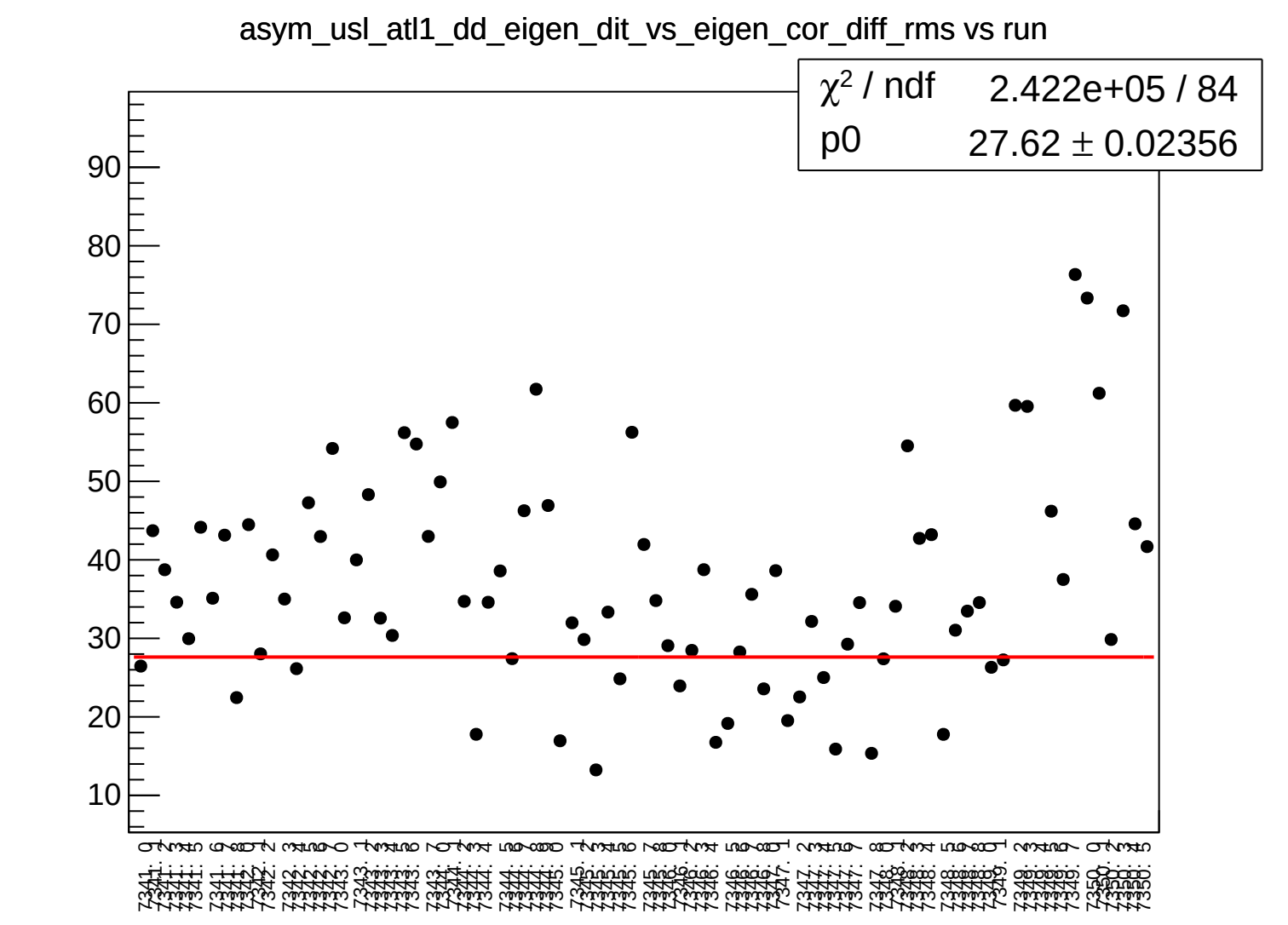

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4143 / 84
p0 0.000293 ± 2.308e−07
0.38
0.36
0.34
0.32
0.3
0.28
0.26

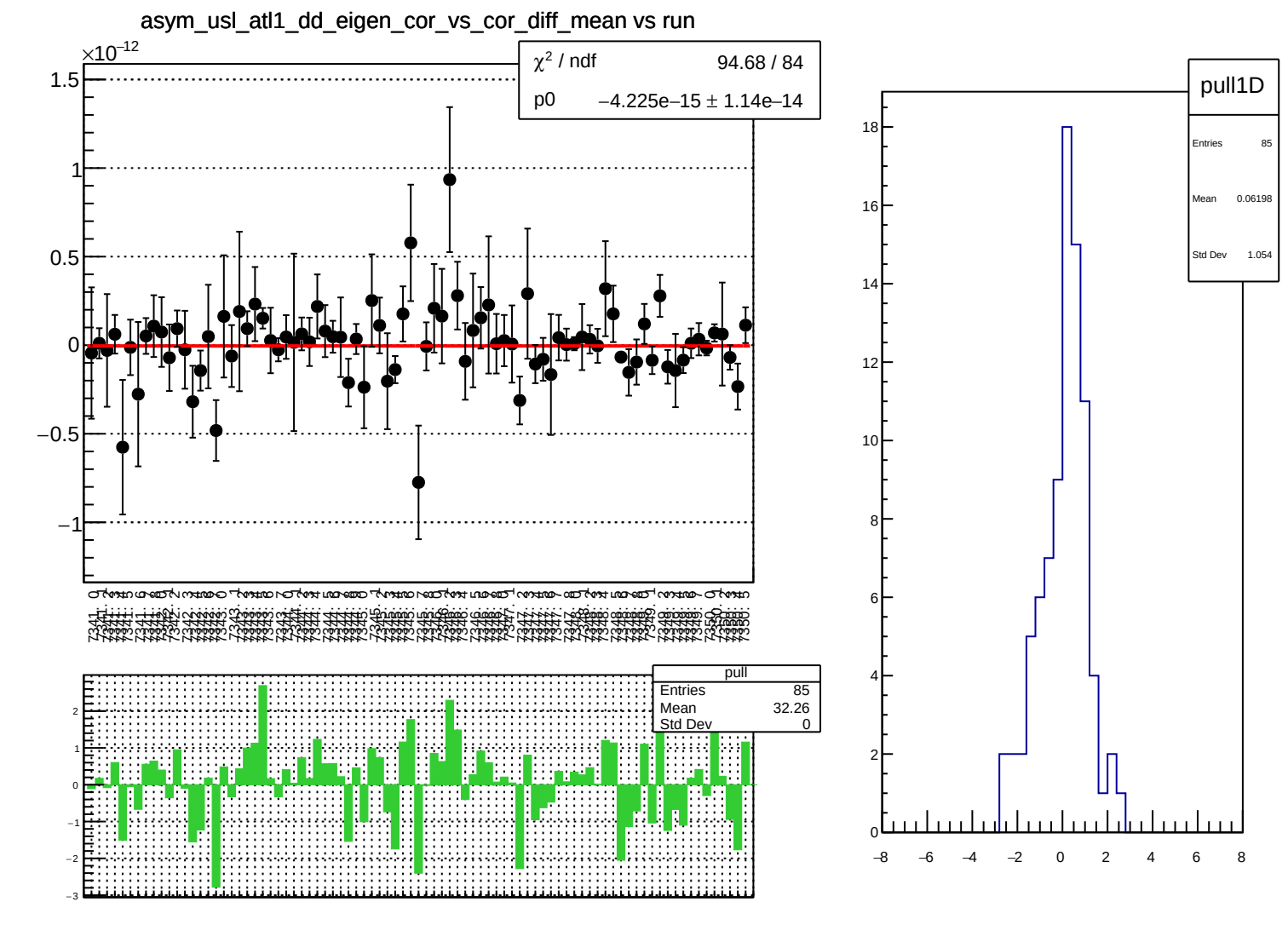

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.13 / 84
p0 −0.01306 ± 0.03332
pull
Entries 85
Mean −0.1509
Std Dev 0

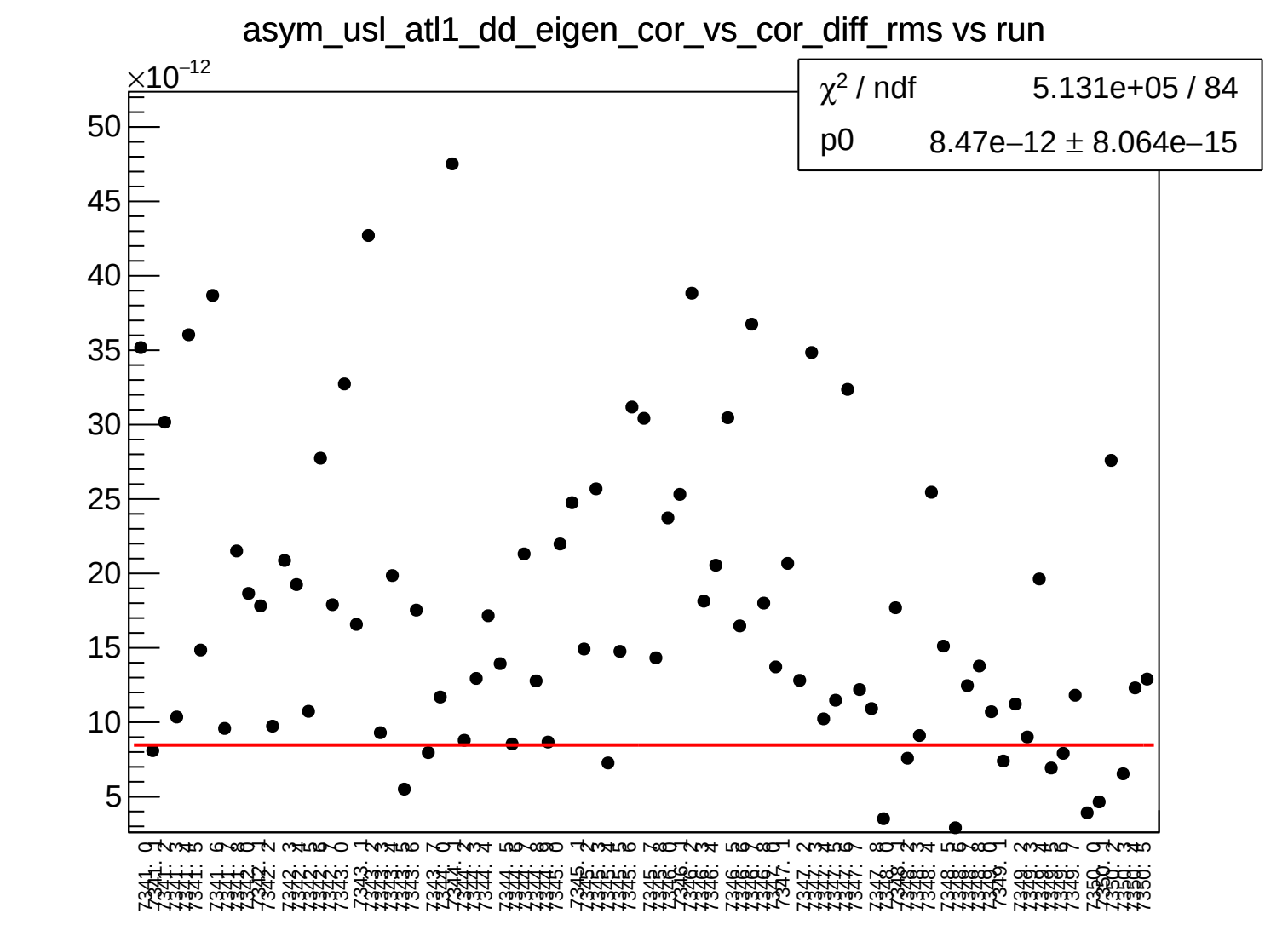

pull1D
Entries 85
Mean −0.04144
Std Dev 0.9821

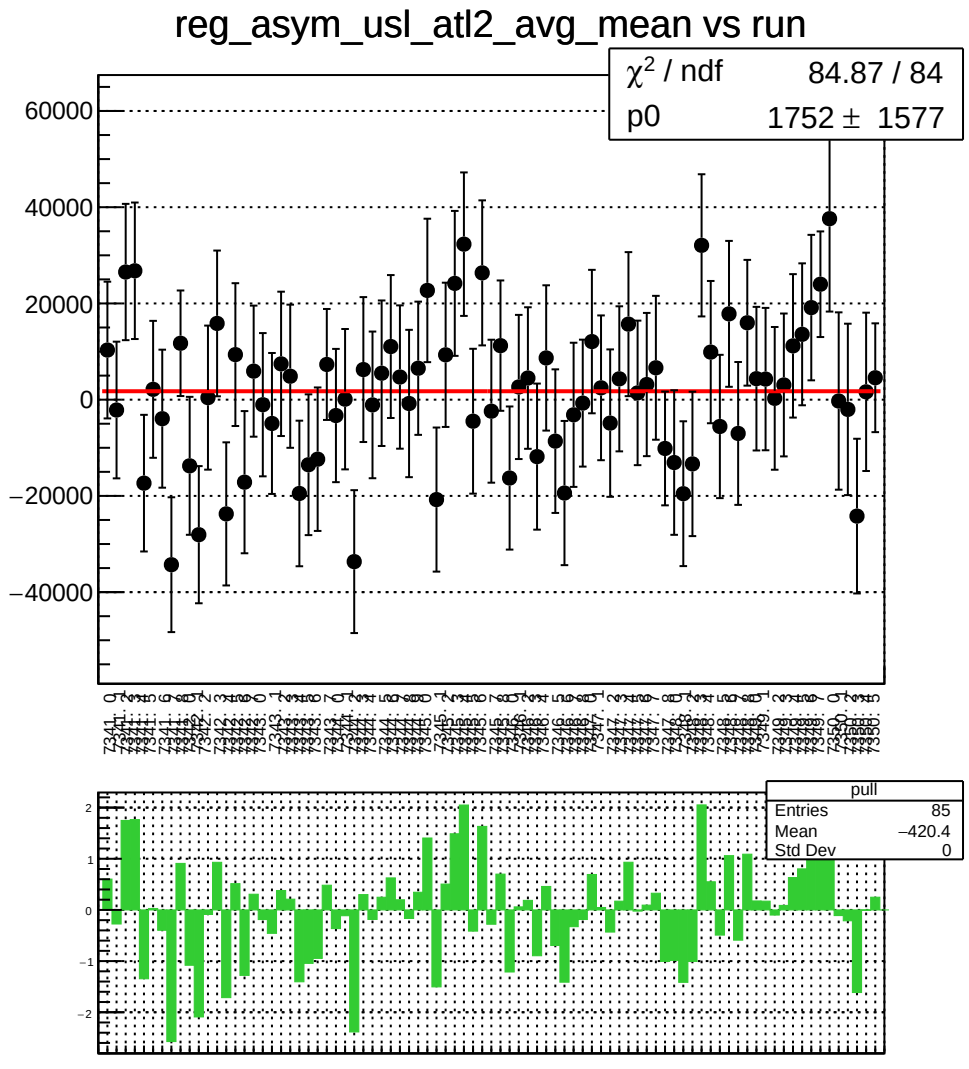

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.422e+05 / 84
p0 27.62 ± 0.02356
90
80
70
60
50
40
30
20
10

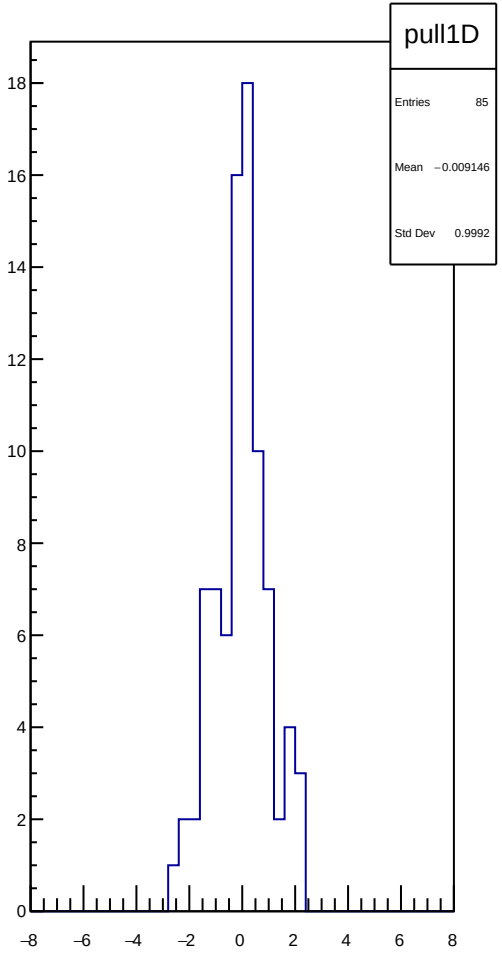

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.13 / 84
p0 −0.01306 ± 0.03332
pull
Entries 85
Mean −0.1509
Std Dev 0
pull1D
Entries 85
Mean −0.04144
Std Dev 0.9821

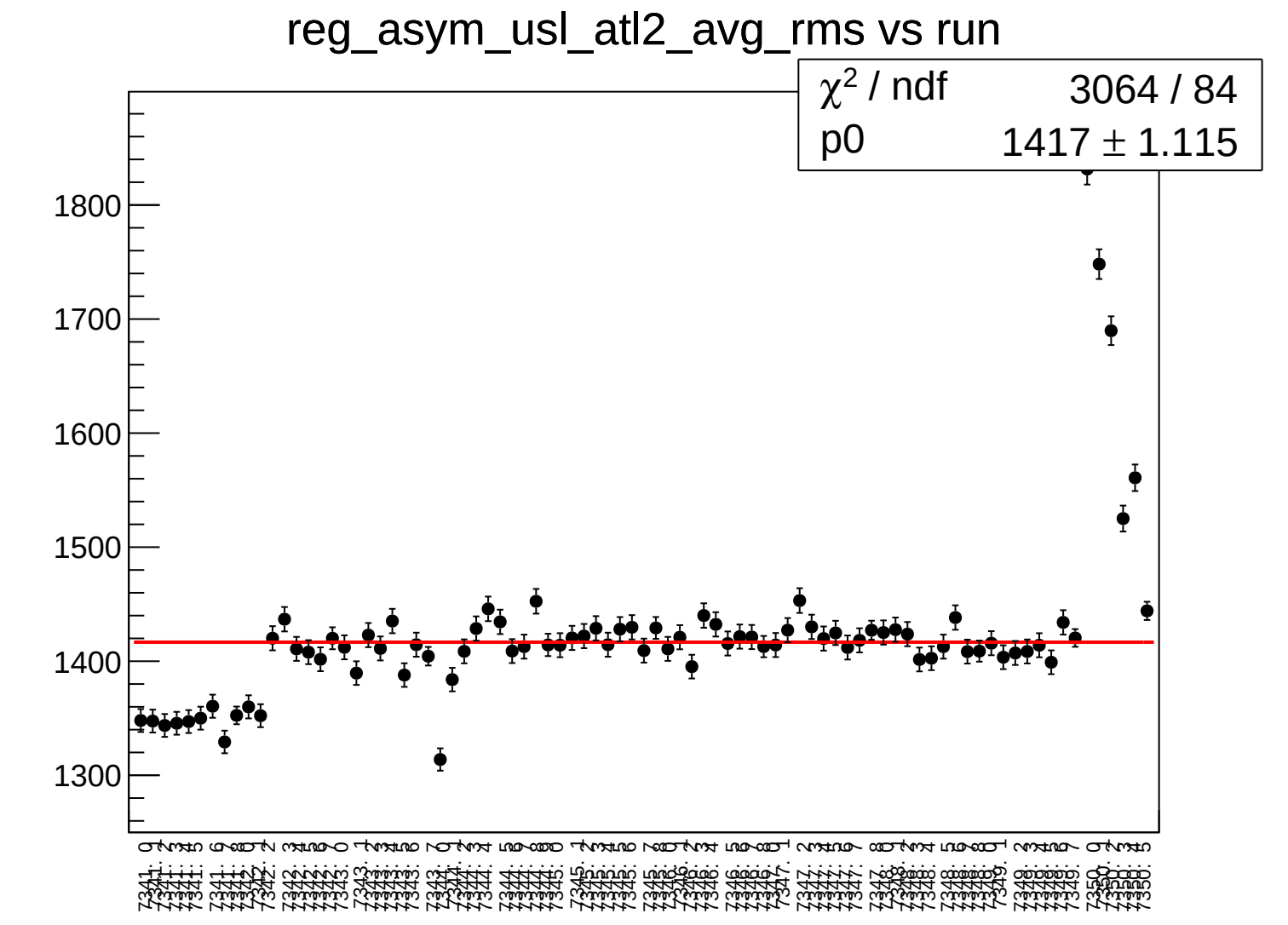

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.422e+05 / 84
p0 27.62 ± 0.02356
90
80
70
60
50
40
30
20
10

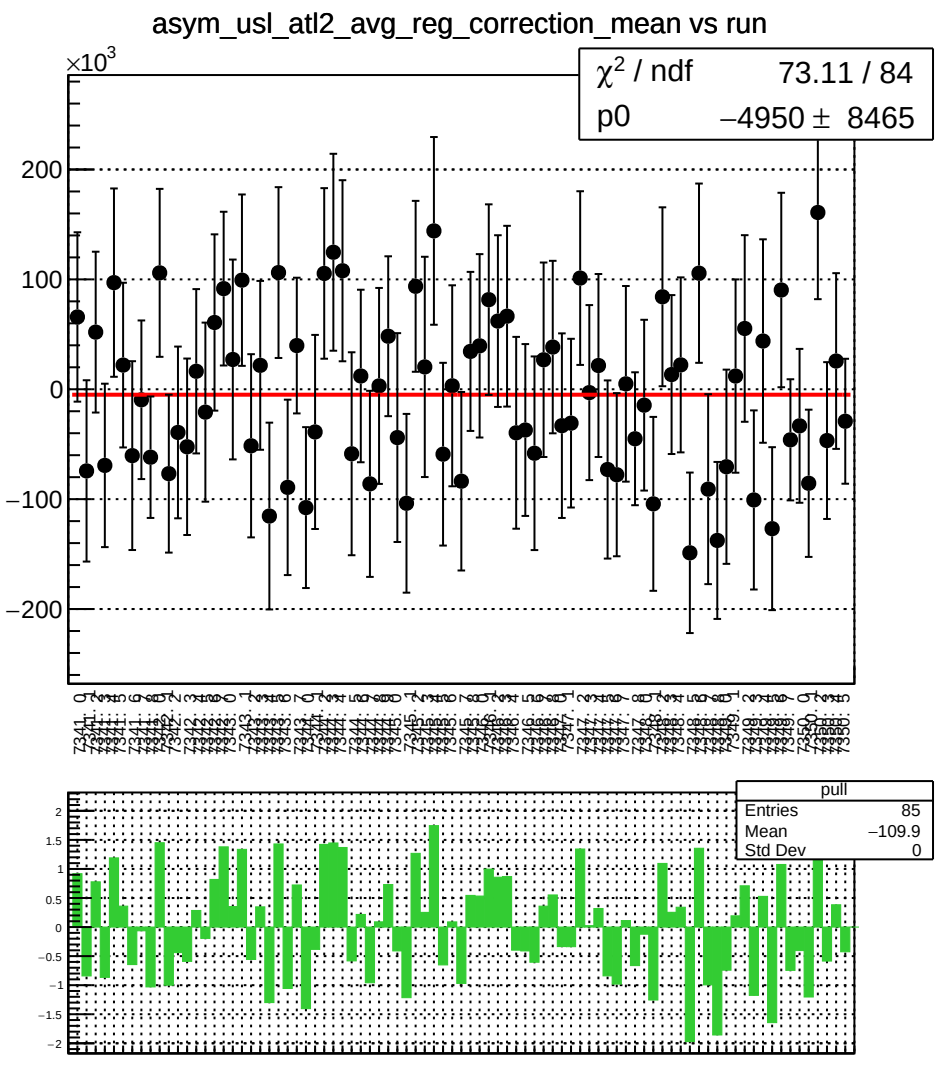

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.68 / 84
p0 −4.225e−15 ± 1.14e−14
pull
Entries 85
Mean 32.26
Std Dev 0
pull1D
Entries 85
Mean 0.06198
Std Dev 1.054

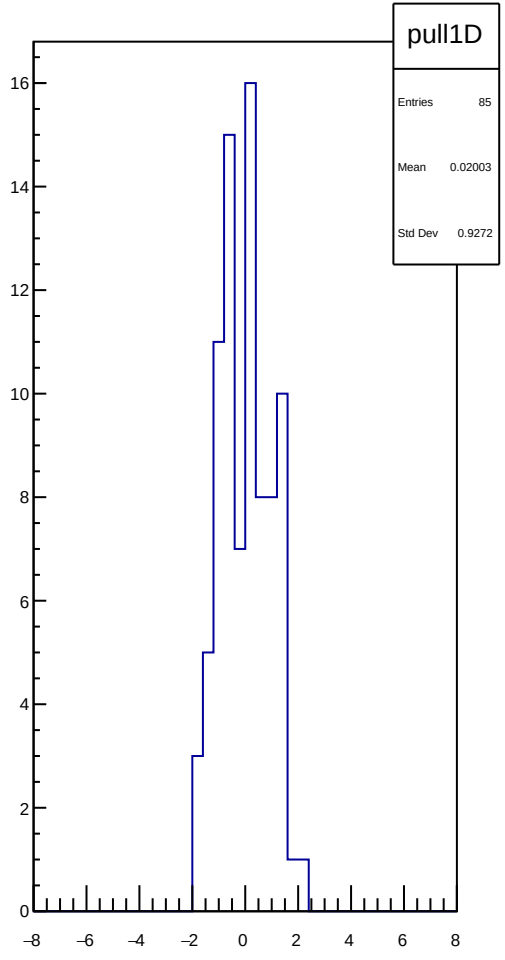

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.131e+05 / 84
p0 8.47e−12 ± 8.064e−15
50
45
40
35
30
25
20
15
10
5

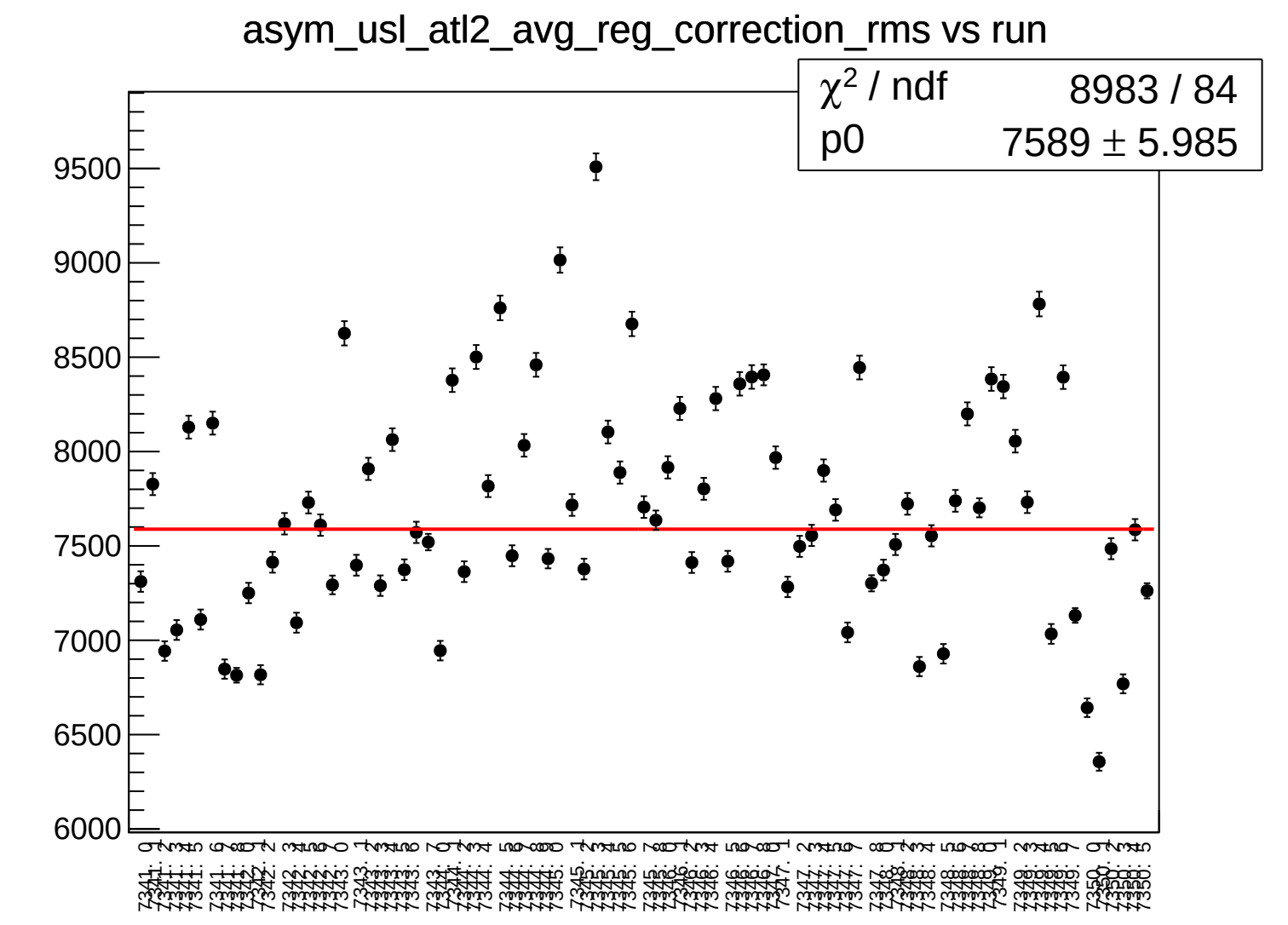

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.87 / 84
p0 1752 ± 1577
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −420.4
Std Dev 0
2
1
0
−1
−2

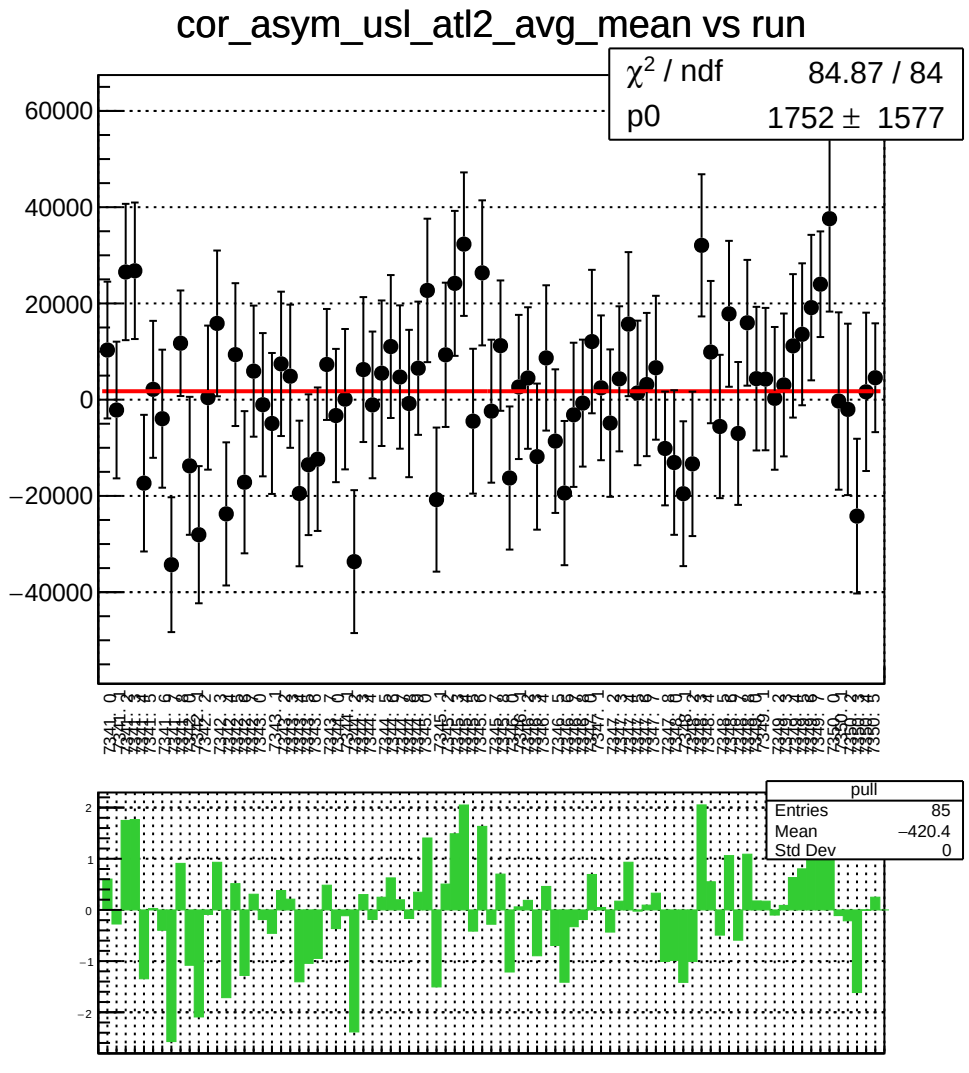

pull1D
Entries 85
Mean −0.009146
Std Dev 0.9992
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

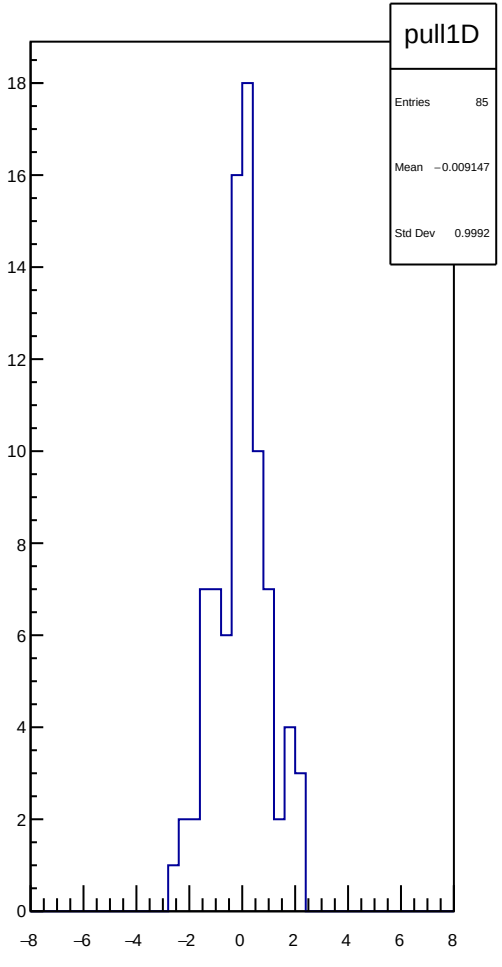

reg_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 3064 / 84
p0 1417 ± 1.115
1800
1700
1600
1500
1400
1300

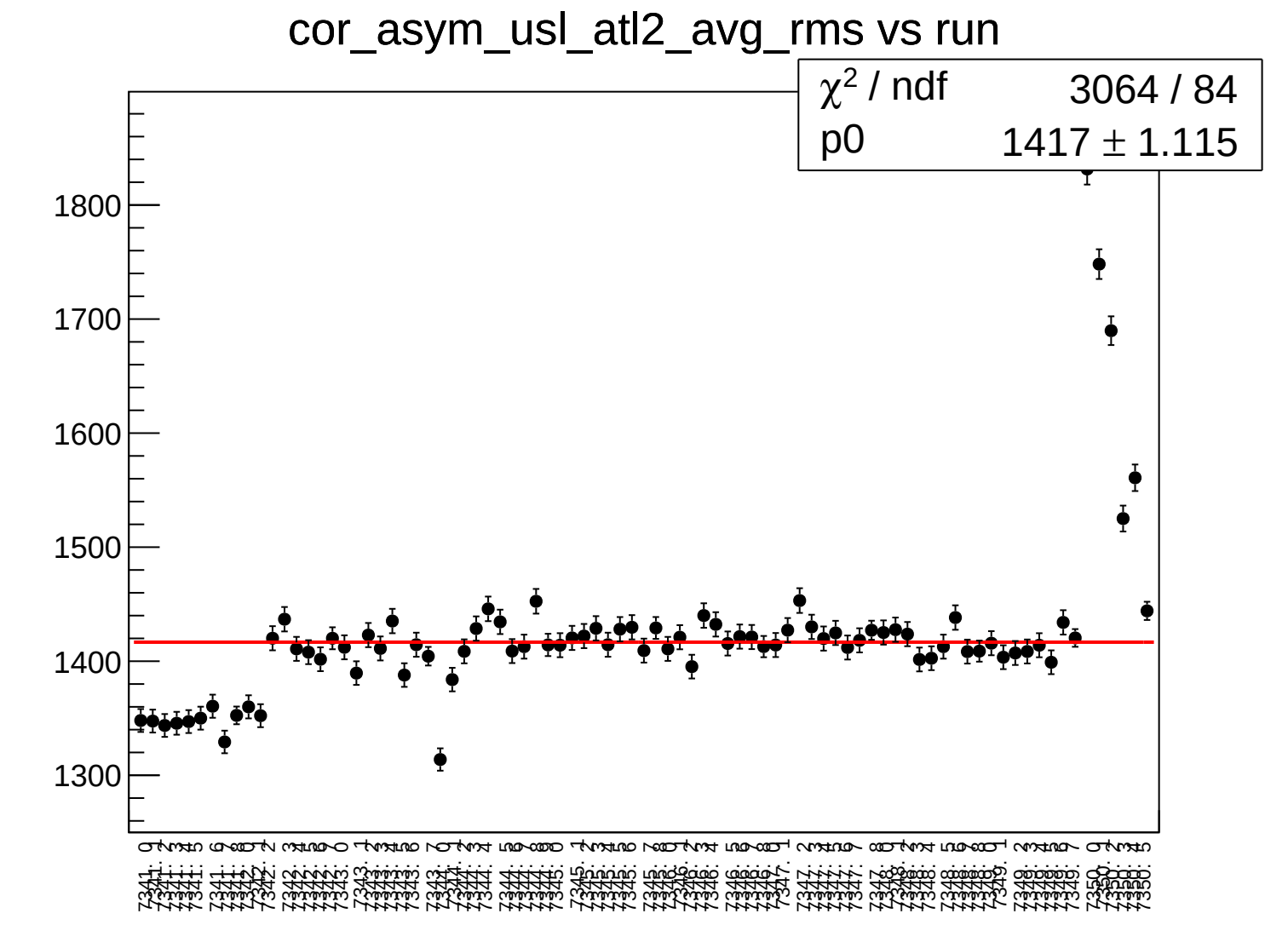

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 73.11 / 84
p0 −4950 ± 8465
200
100
0
−100
−200
pull
Entries 85
Mean −109.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

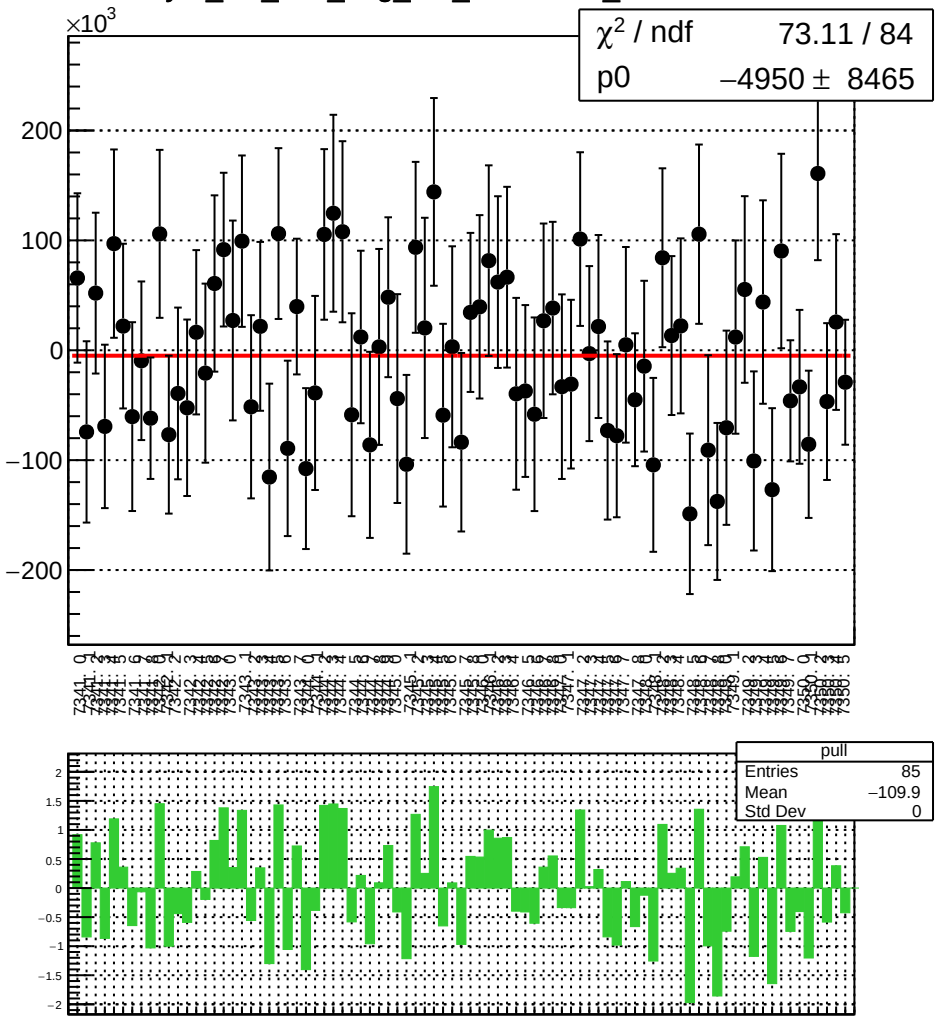

pull1D
Entries 85
Mean 0.02003
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

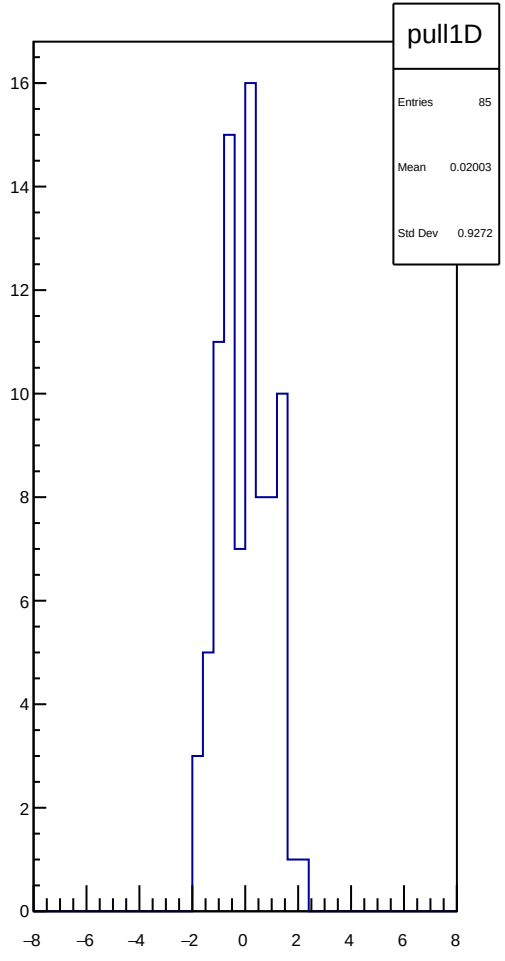

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 8983 / 84
p0 7589 ± 5.985
9500
9000
8500
8000
7500
7000
6500
6000

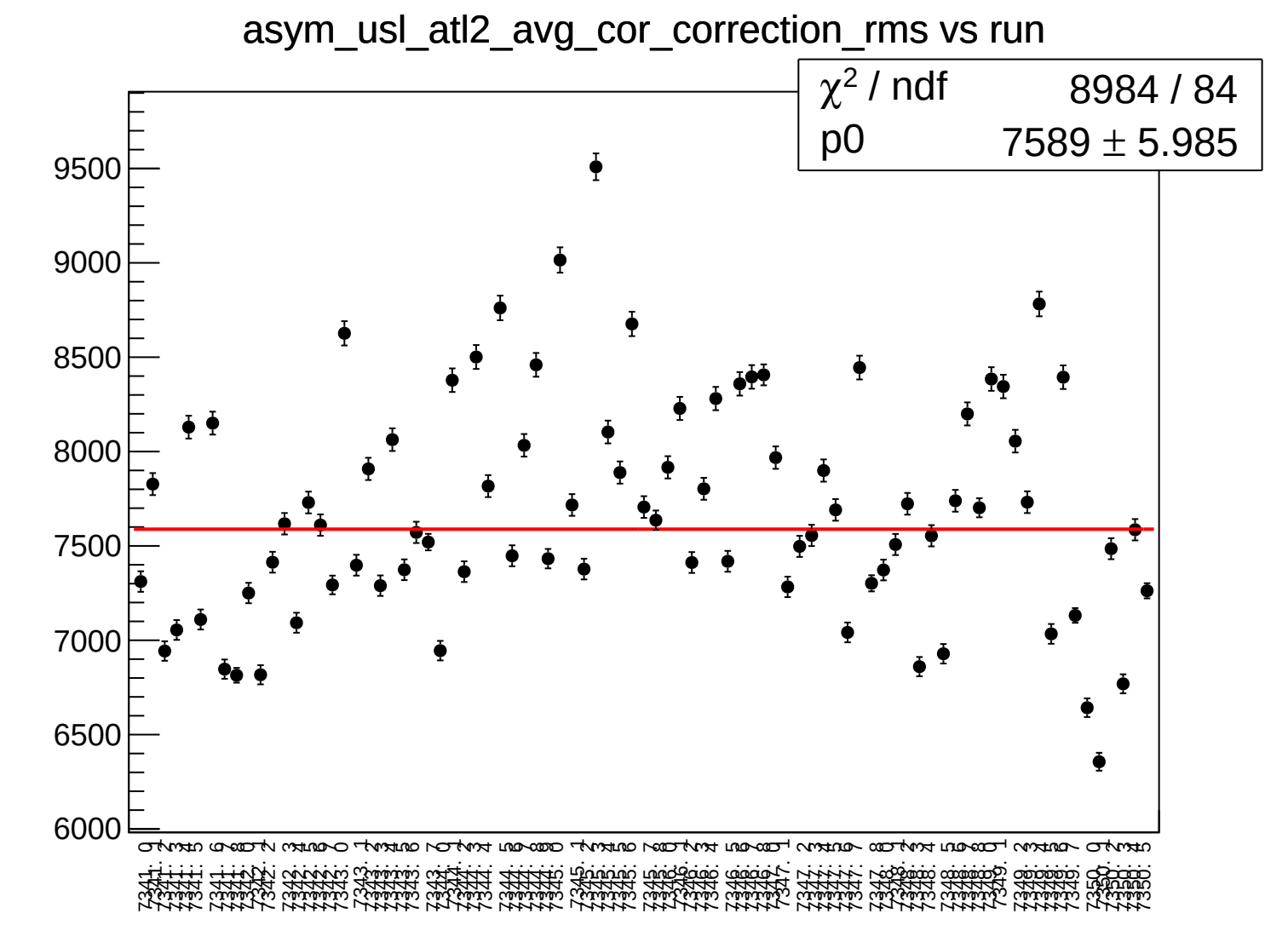

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.87 / 84
p0 1752 ± 1577
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −420.4
Std Dev 0
2
1
0
−1
−2

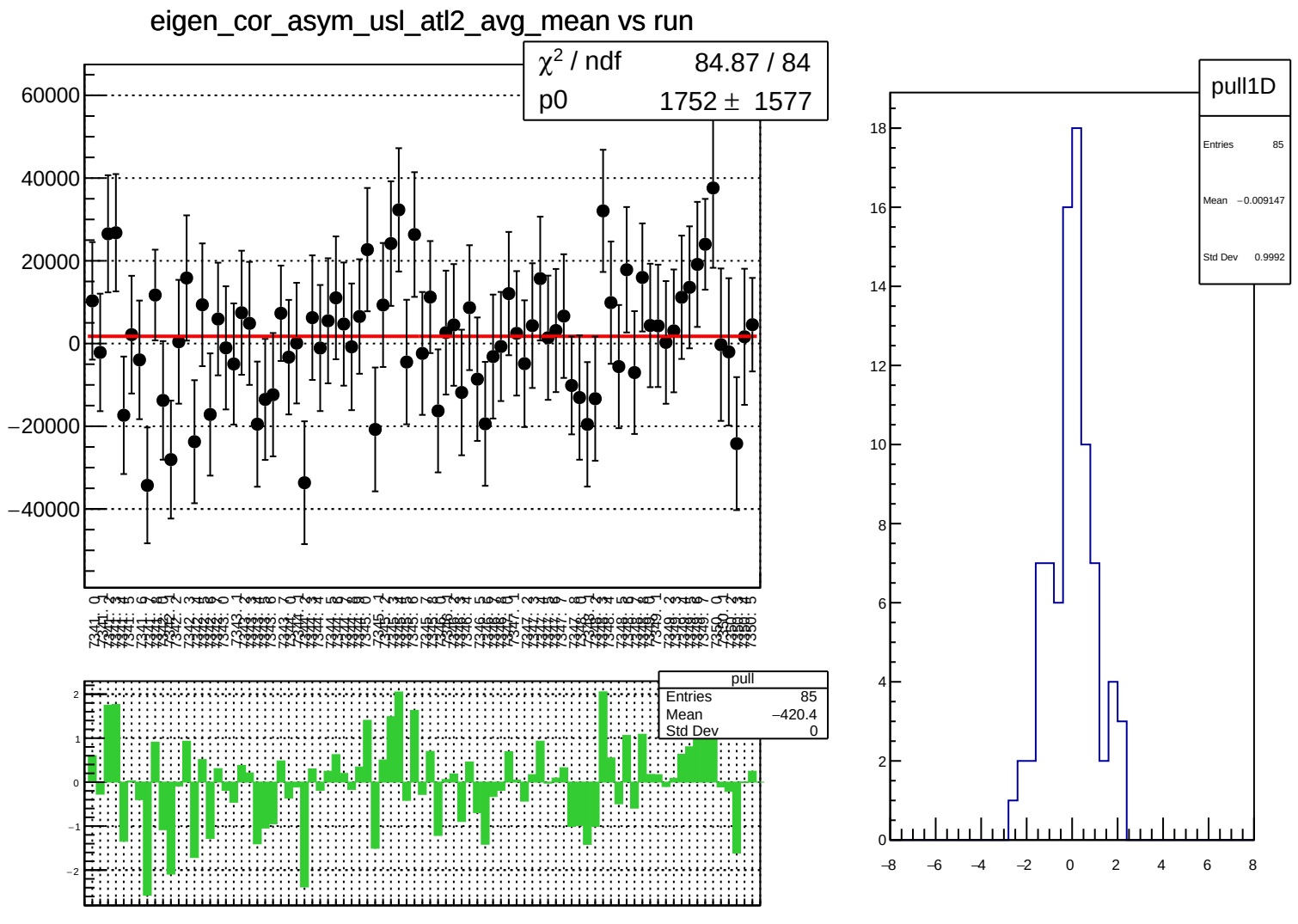

pull1D
Entries 85
Mean −0.009147
Std Dev 0.9992
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

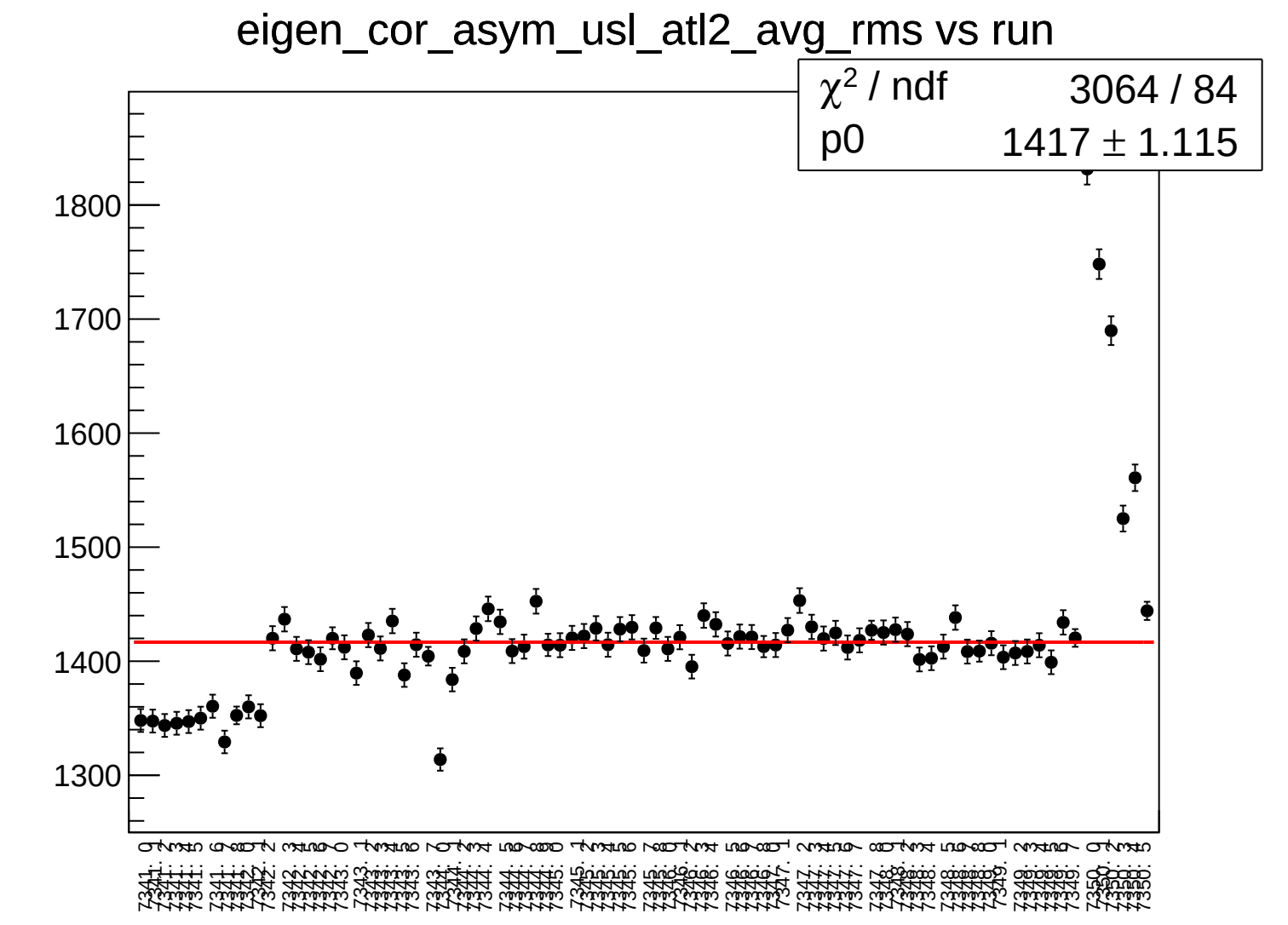

cor_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 3064 / 84
p0 1417 ± 1.115
1800
1700
1600
1500
1400
1300

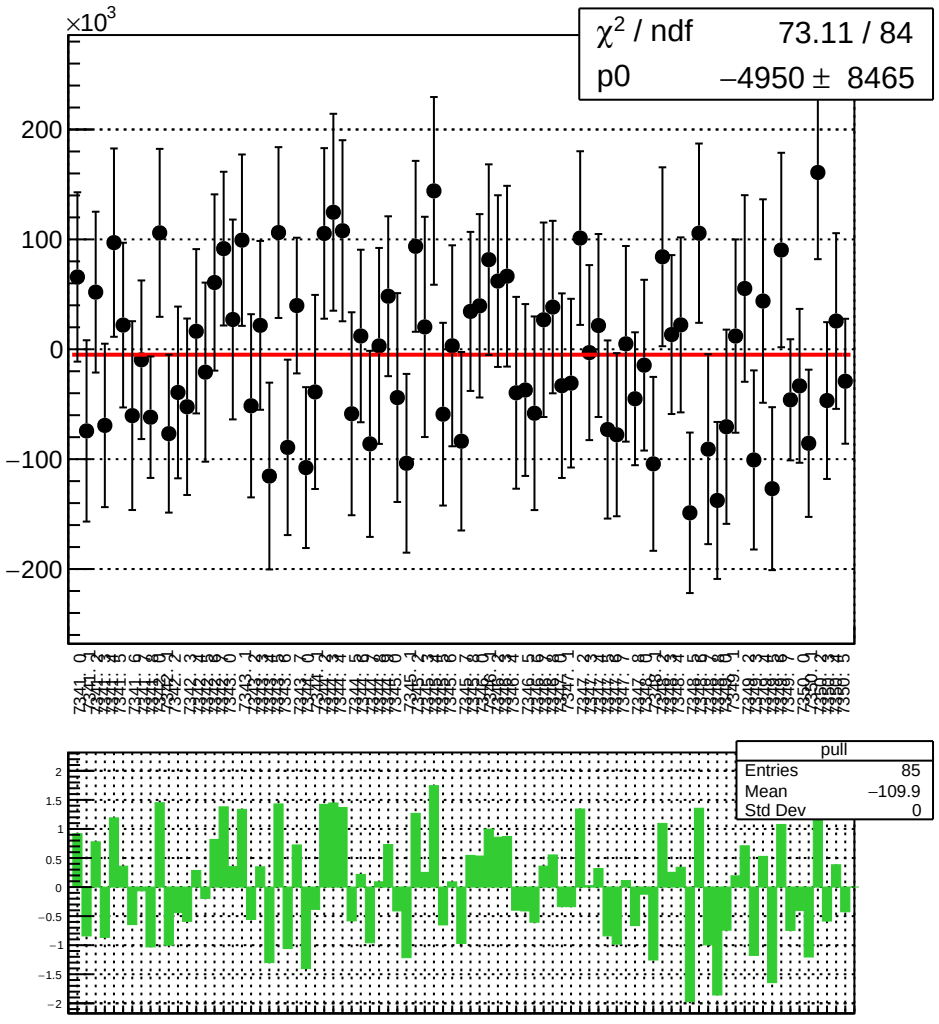

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 73.11 / 84
p0 −4950 ± 8465
200
100
0
−100
−200
pull
Entries 85
Mean −109.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

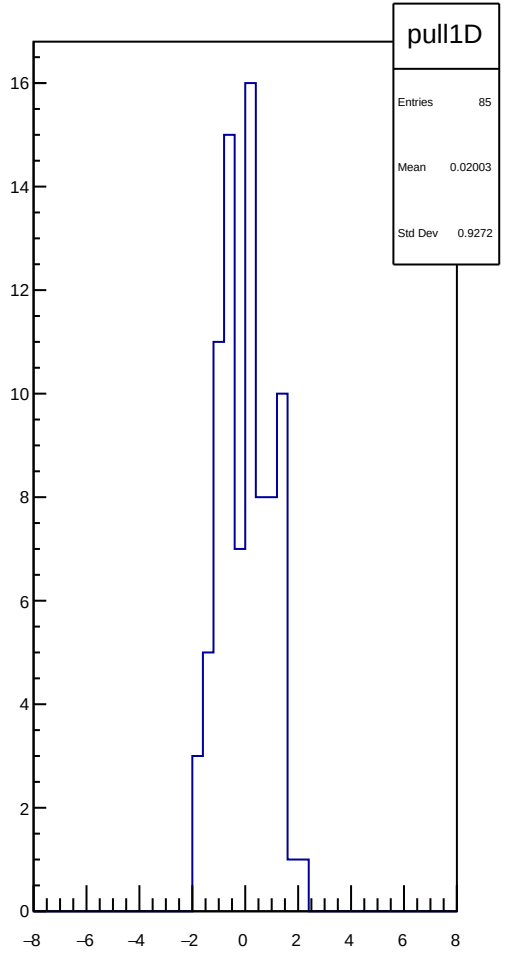

pull1D
Entries 85
Mean 0.02003
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

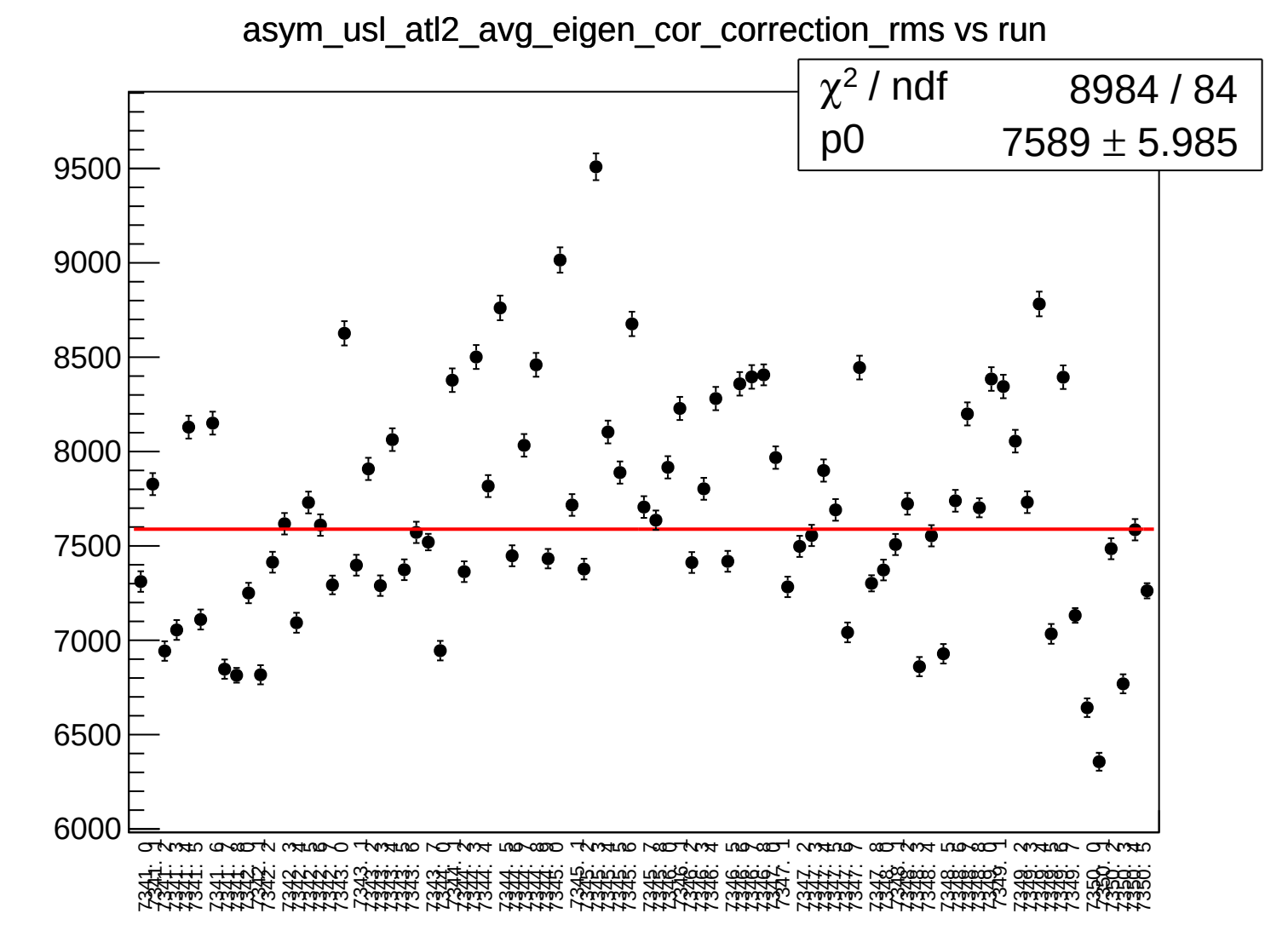

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 8984 / 84
p0 7589 ± 5.985
9500
9000
8500
8000
7500
7000
6500
6000

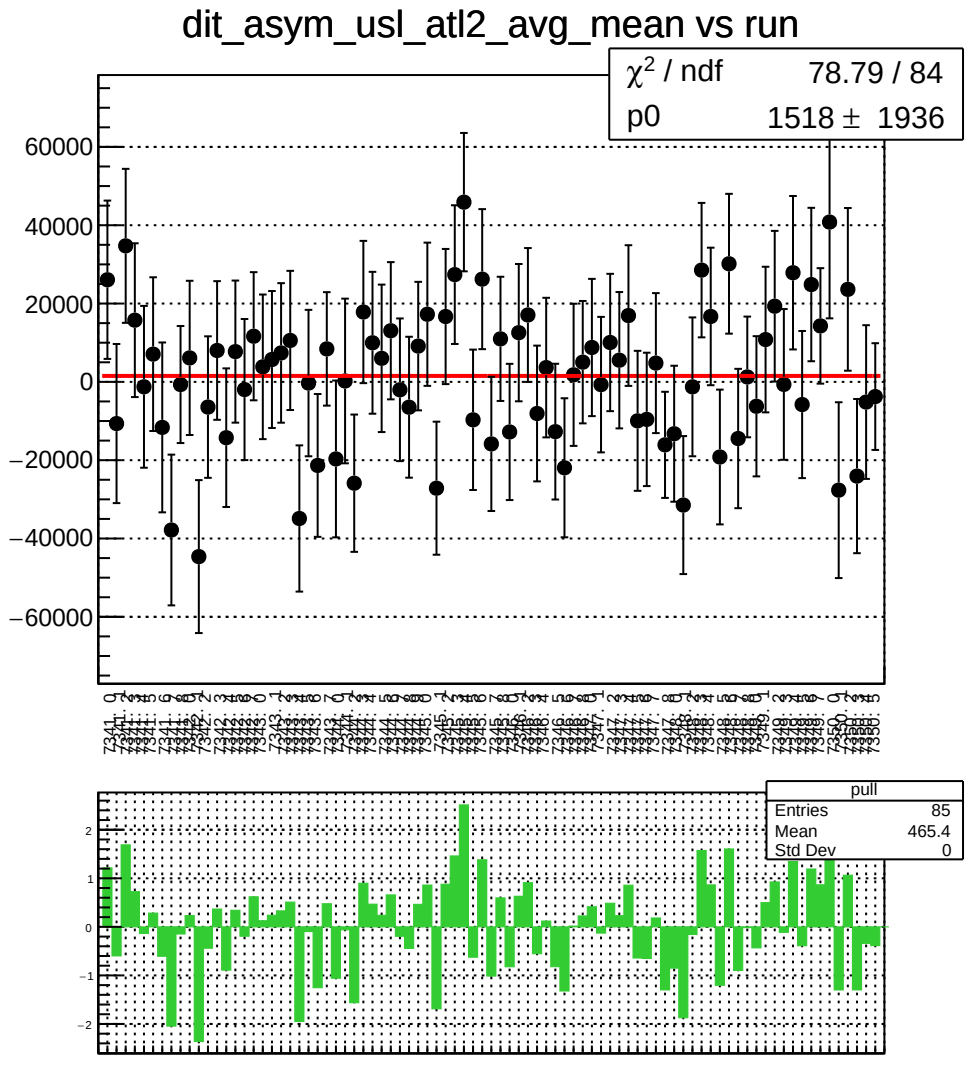

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.87 / 84
p0 1752 ± 1577
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −420.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.009147
Std Dev 0.9992
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

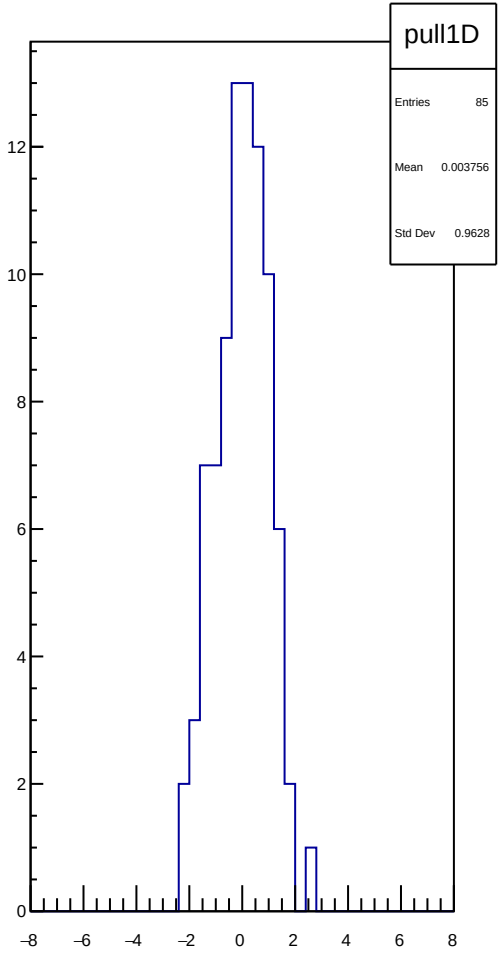

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 3064 / 84
p0 1417 ± 1.115
1800
1700
1600
1500
1400
1300

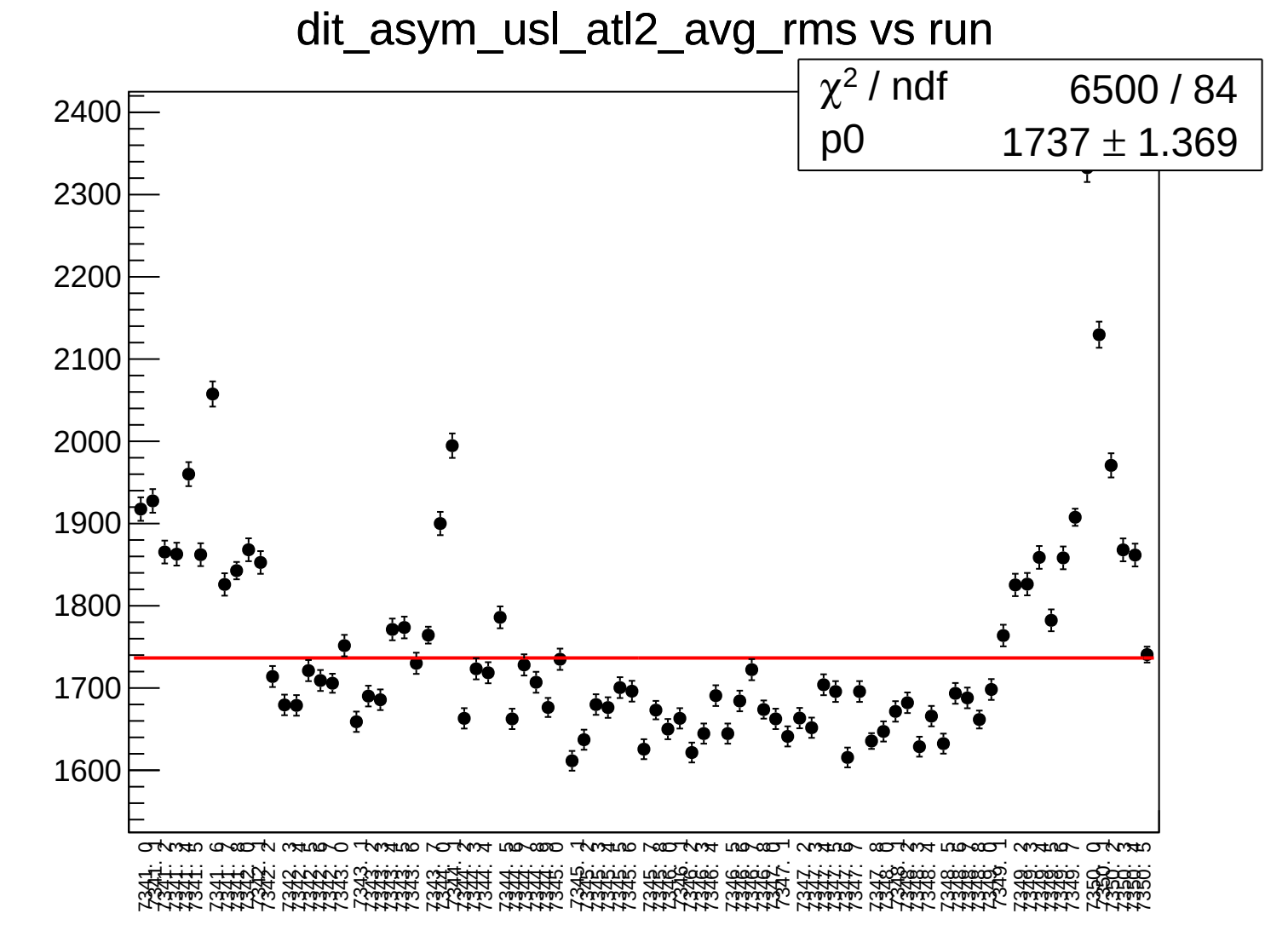

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 73.11 / 84
p0 −4950 ± 8465
200
100
0
−100
−200
pull
Entries 85
Mean −109.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

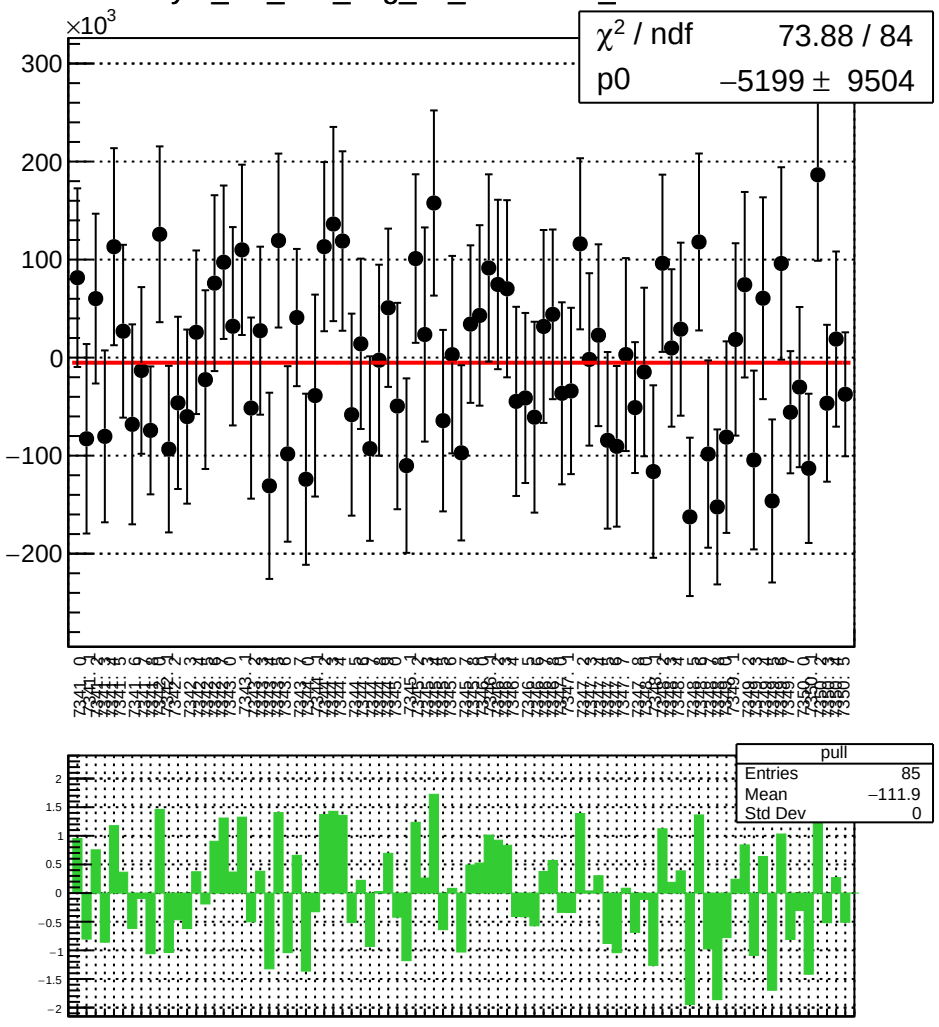

pull1D
Entries 85
Mean 0.02003
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

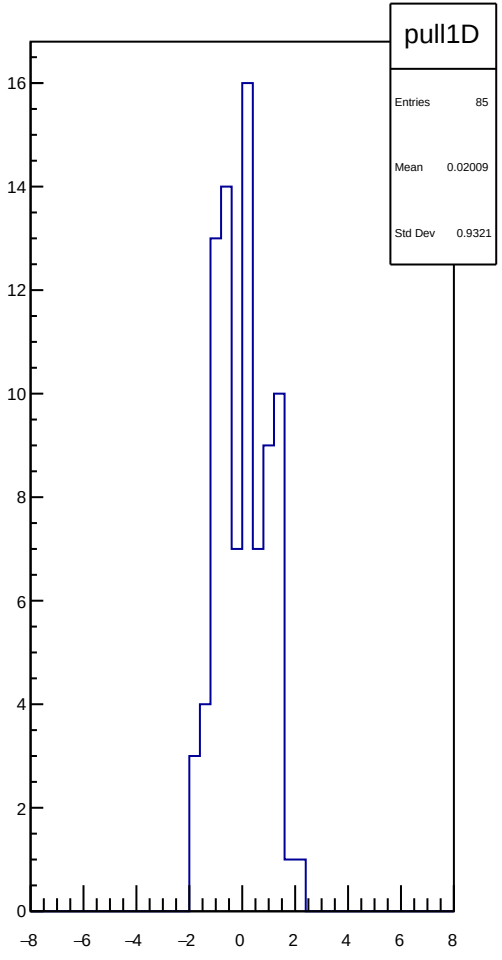

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 8984 / 84
p0 7589 ± 5.985
9500
9000
8500
8000
7500
7000
6500
6000

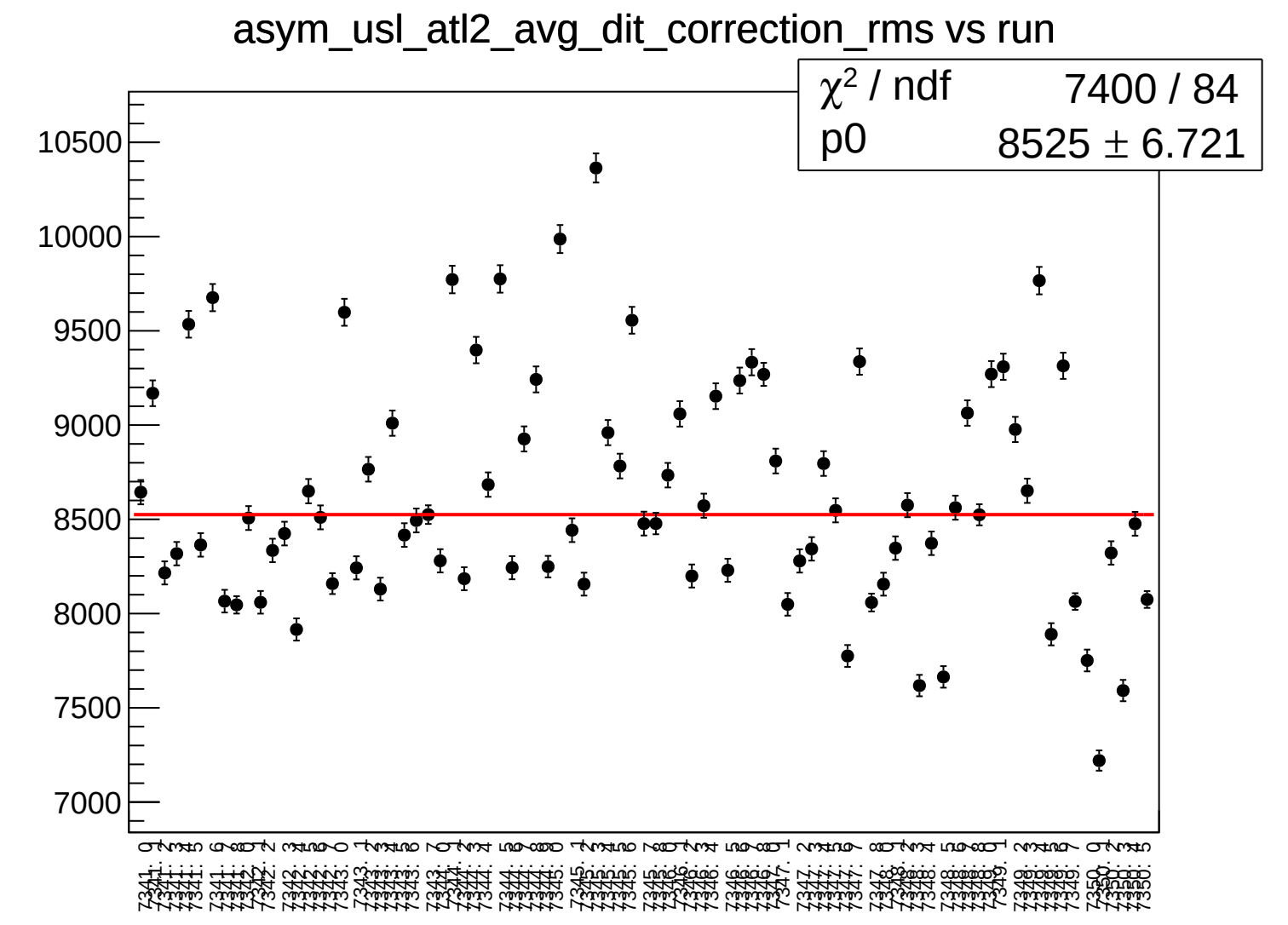

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 78.79 / 84
p0 1518 ± 1936
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 465.4
Std Dev 0
2
1
0
−1
−2

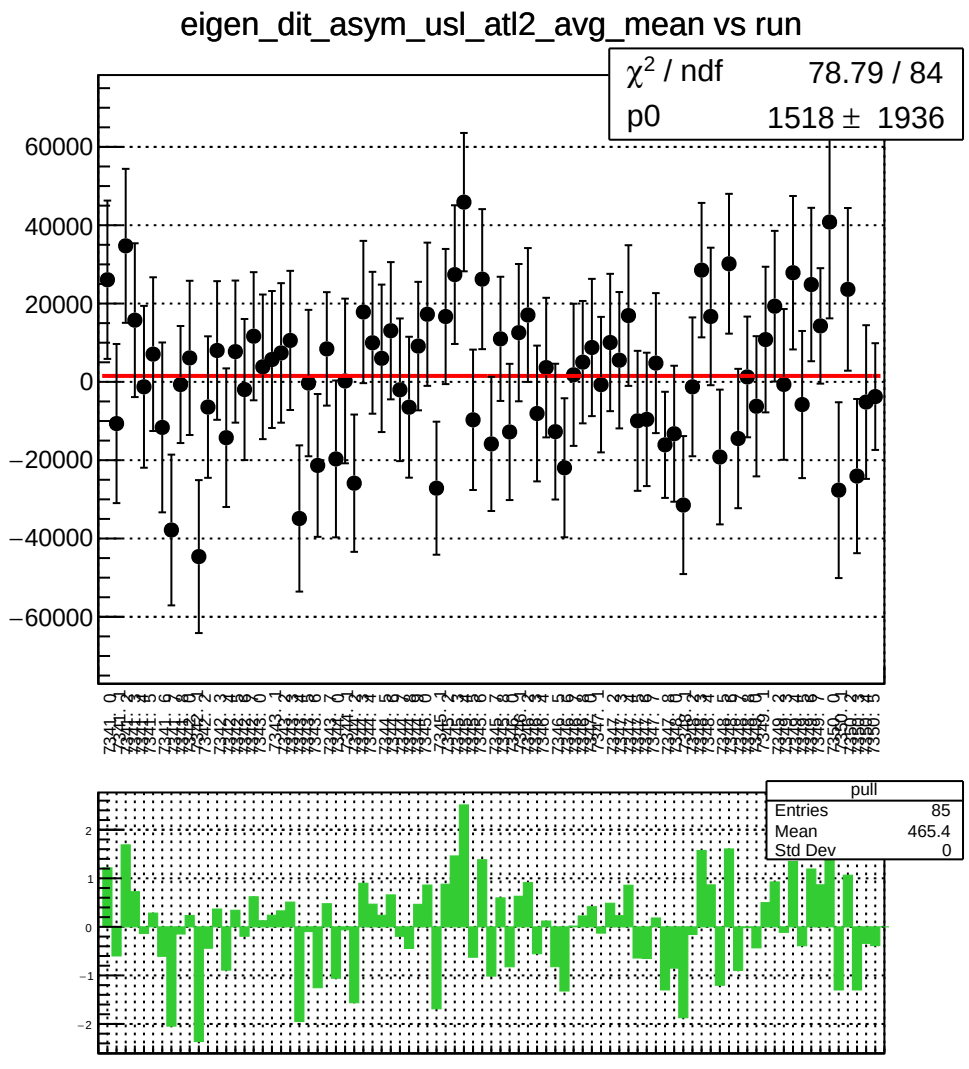

pull1D
Entries 85
Mean 0.003756
Std Dev 0.9628
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

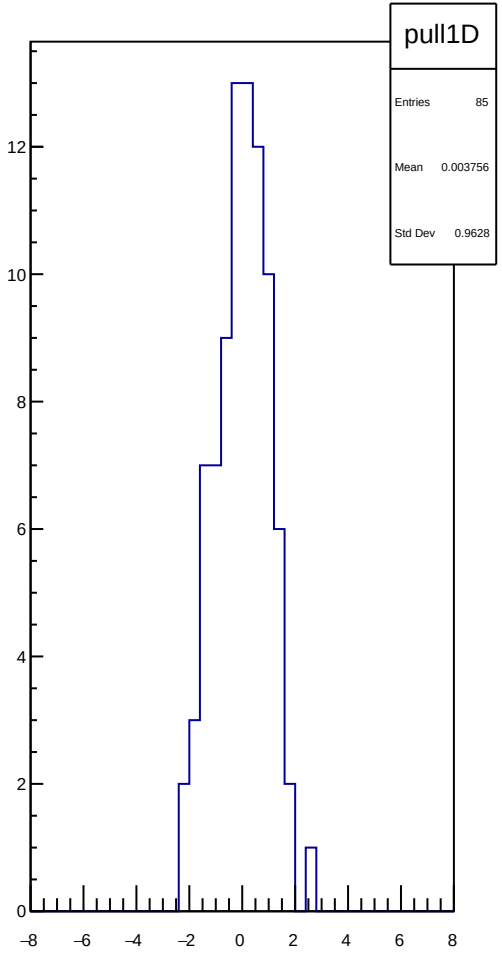

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 6500 / 84
p0 1737 ± 1.369
2400
2300
2200
2100
2000
1900
1800
1700
1600

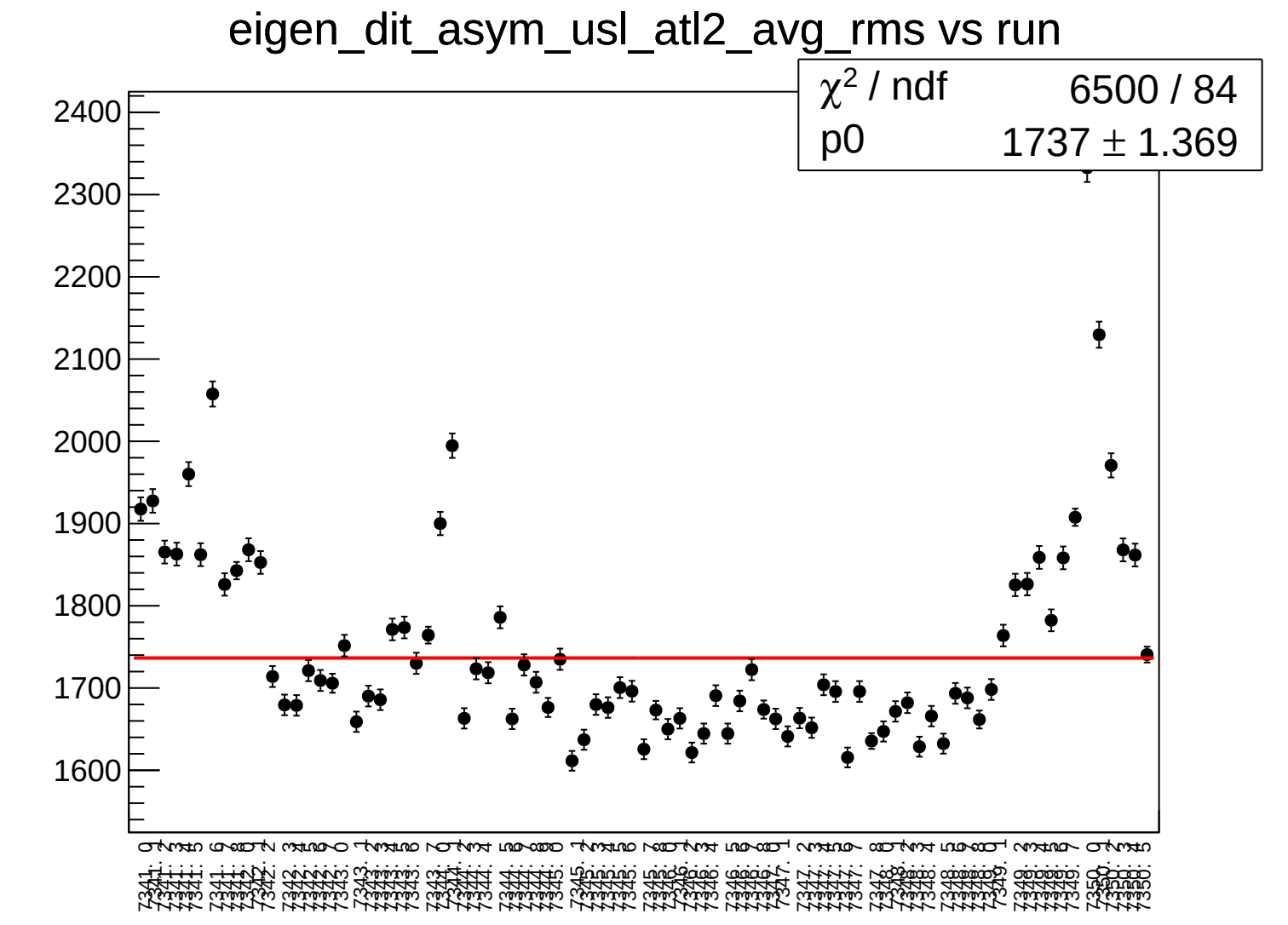

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.88 / 84
p0 −5199 ± 9504
pull
Entries 85
Mean −111.9
Std Dev 0

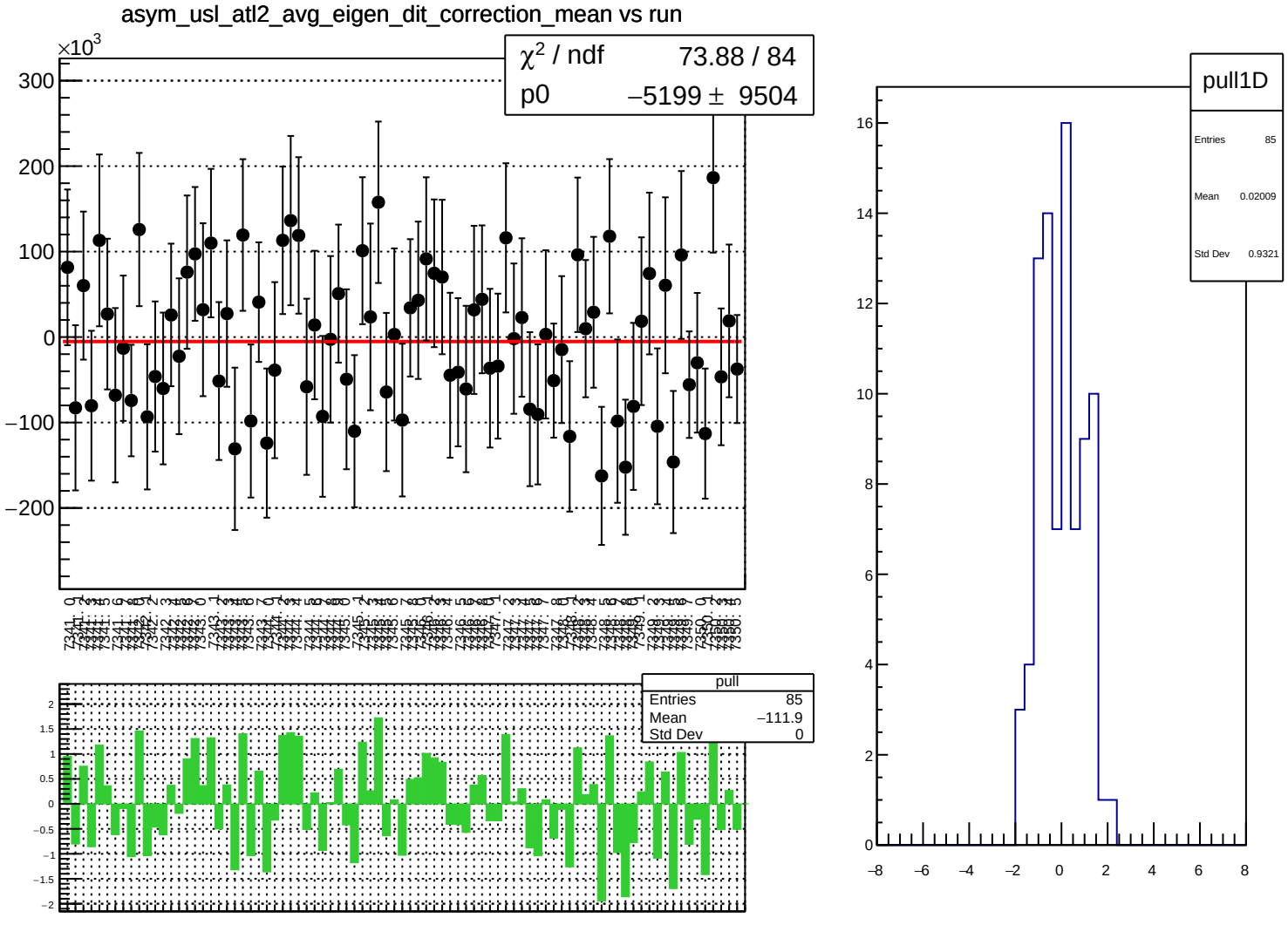

pull1D
Entries 85
Mean 0.02009
Std Dev 0.9321

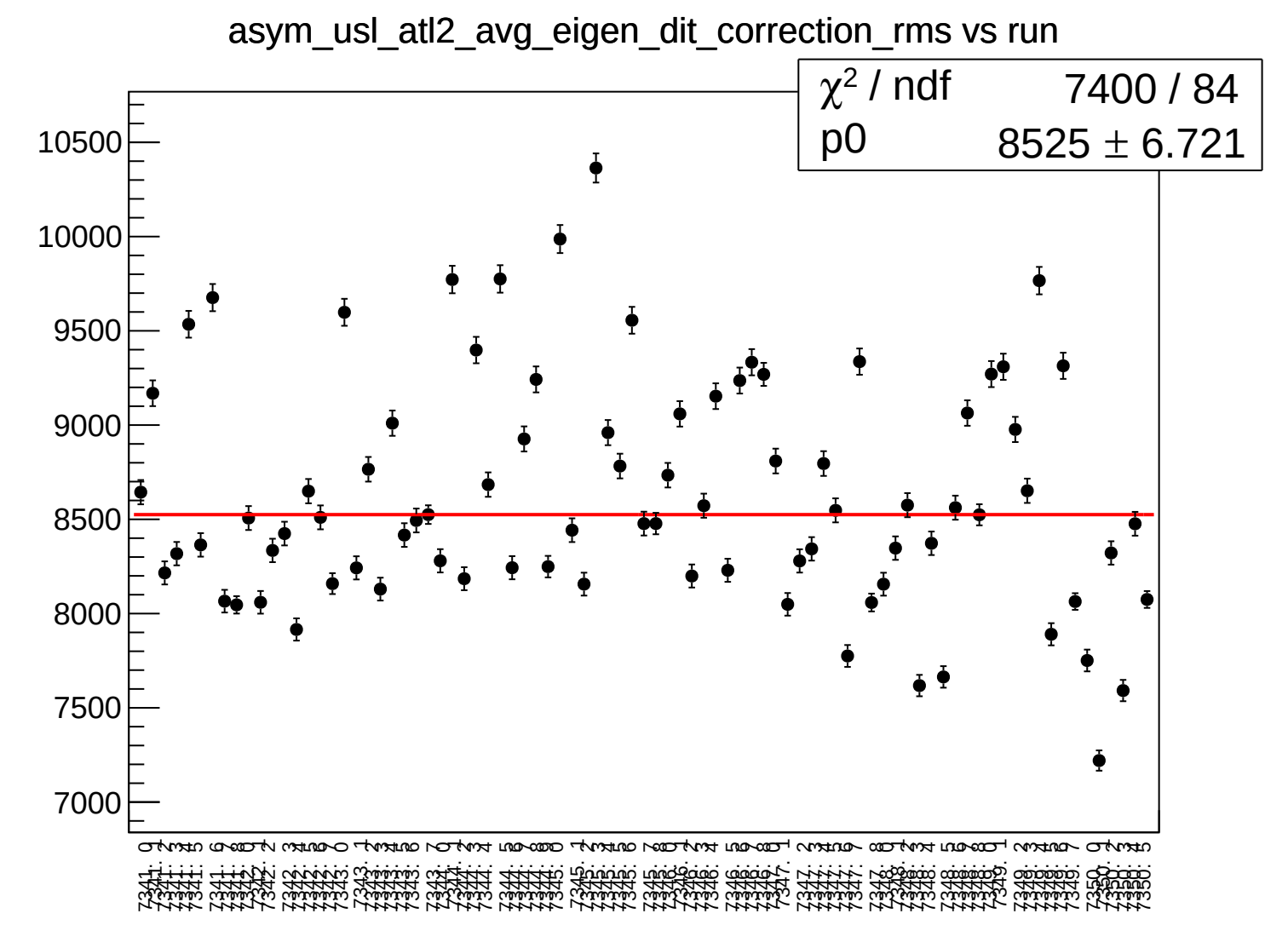

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 7400 / 84
p0 8525 ± 6.721
10500
10000
9500
9000
8500
8000
7500
7000

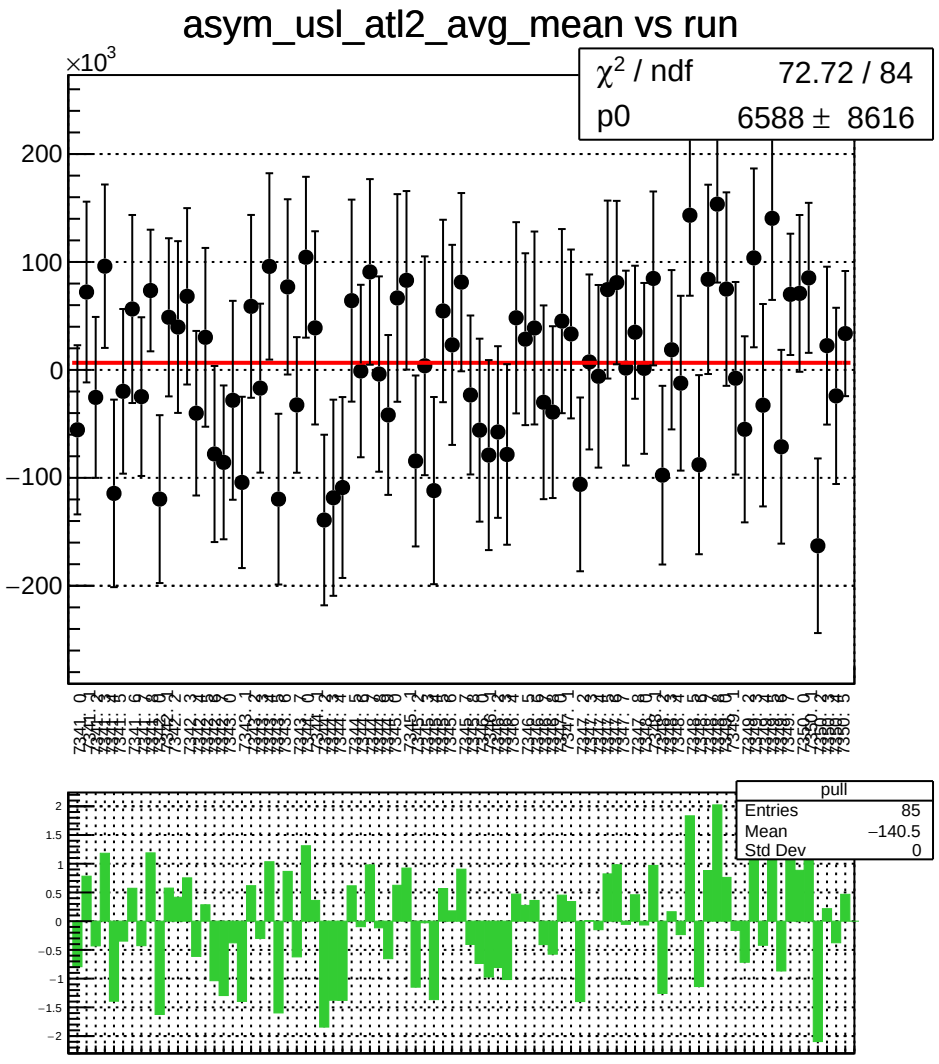

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 78.79 / 84
p0 1518 ± 1936
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 465.4
Std Dev 0
2
1
0
−1
−2

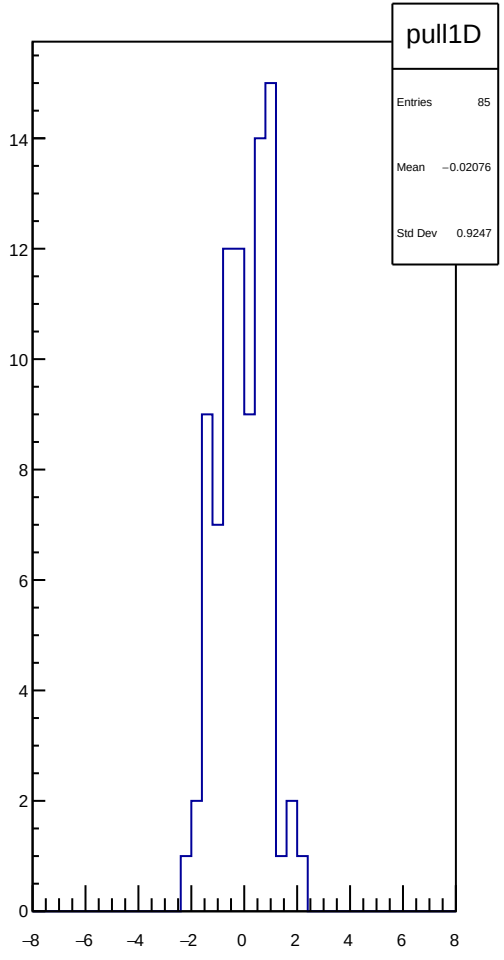

pull1D
Entries 85
Mean 0.003756
Std Dev 0.9628
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

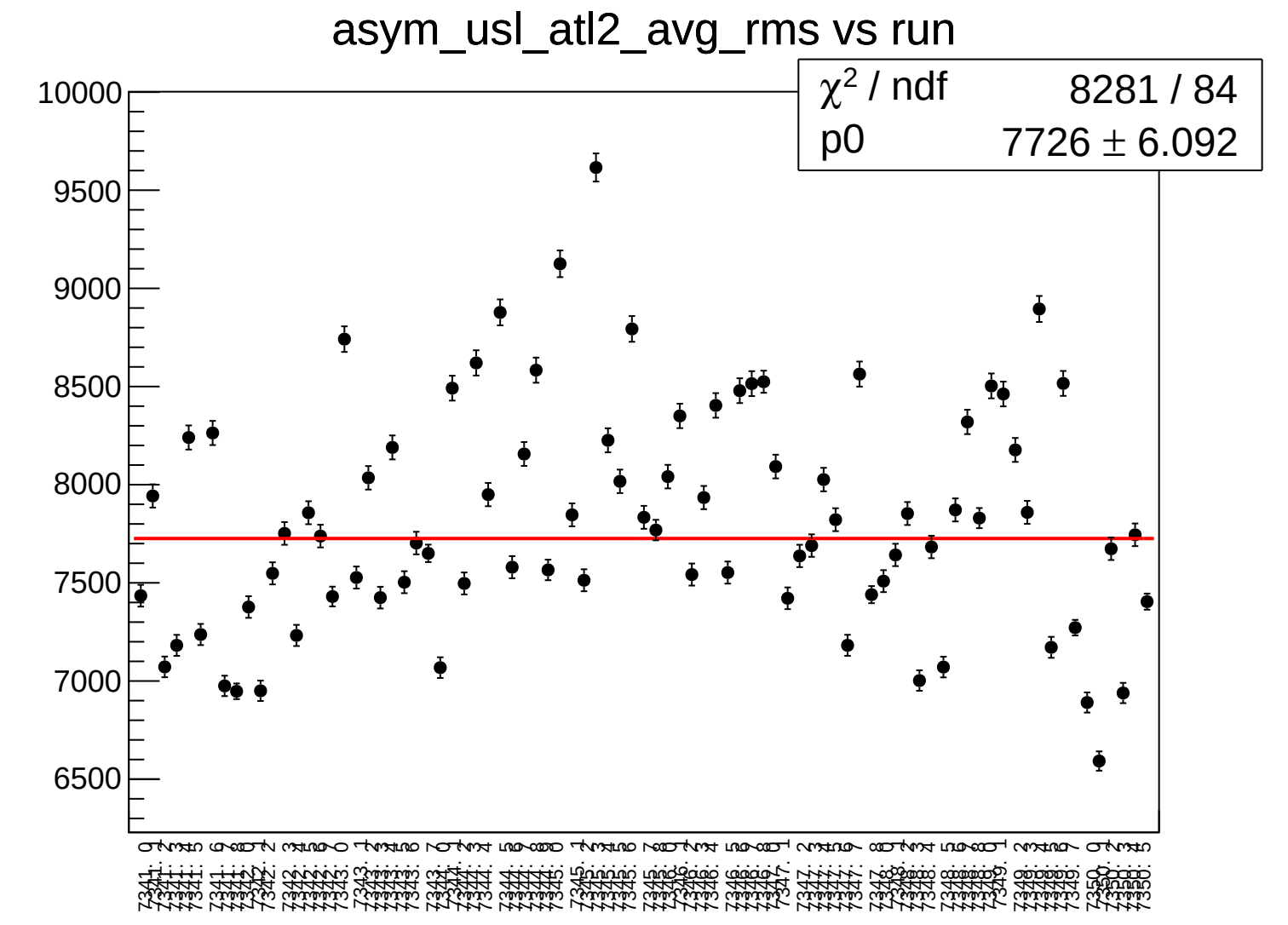

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 6500 / 84
p0 1737 ± 1.369
2400
2300
2200
2100
2000
1900
1800
1700
1600

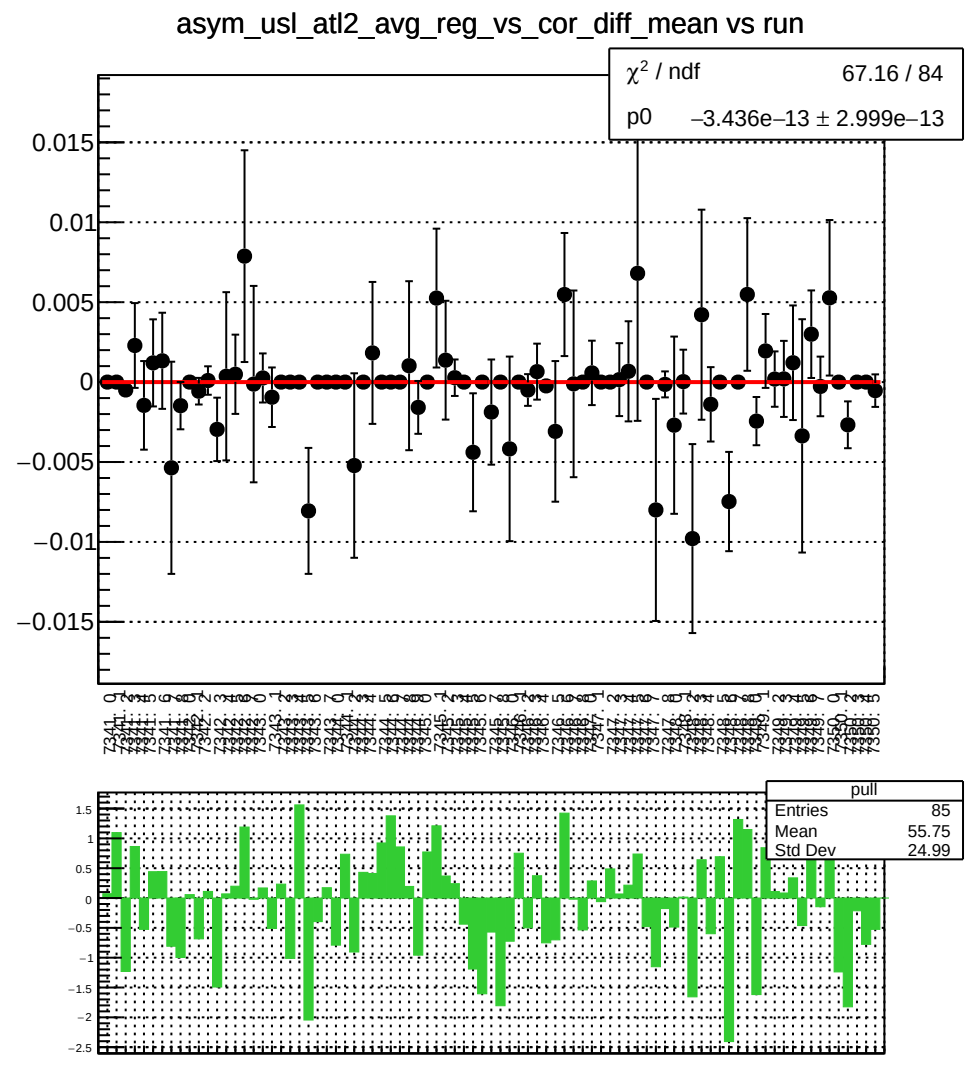

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.88 / 84
p0 −5199 ± 9504
pull
Entries 85
Mean −111.9
Std Dev 0
pull1D
Entries 85
Mean 0.02009
Std Dev 0.9321

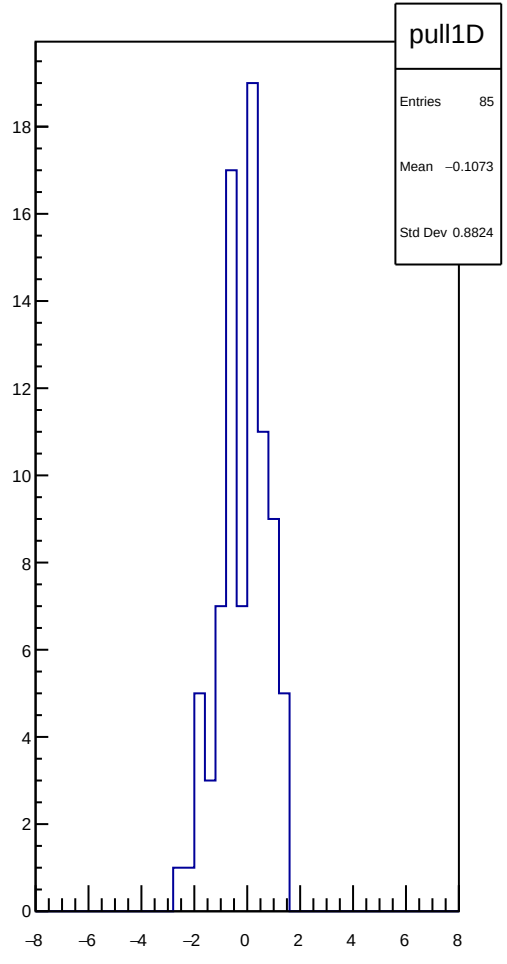

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7400 / 84
p0 8525 ± 6.721
10500
10000
9500
9000
8500
8000
7500
7000

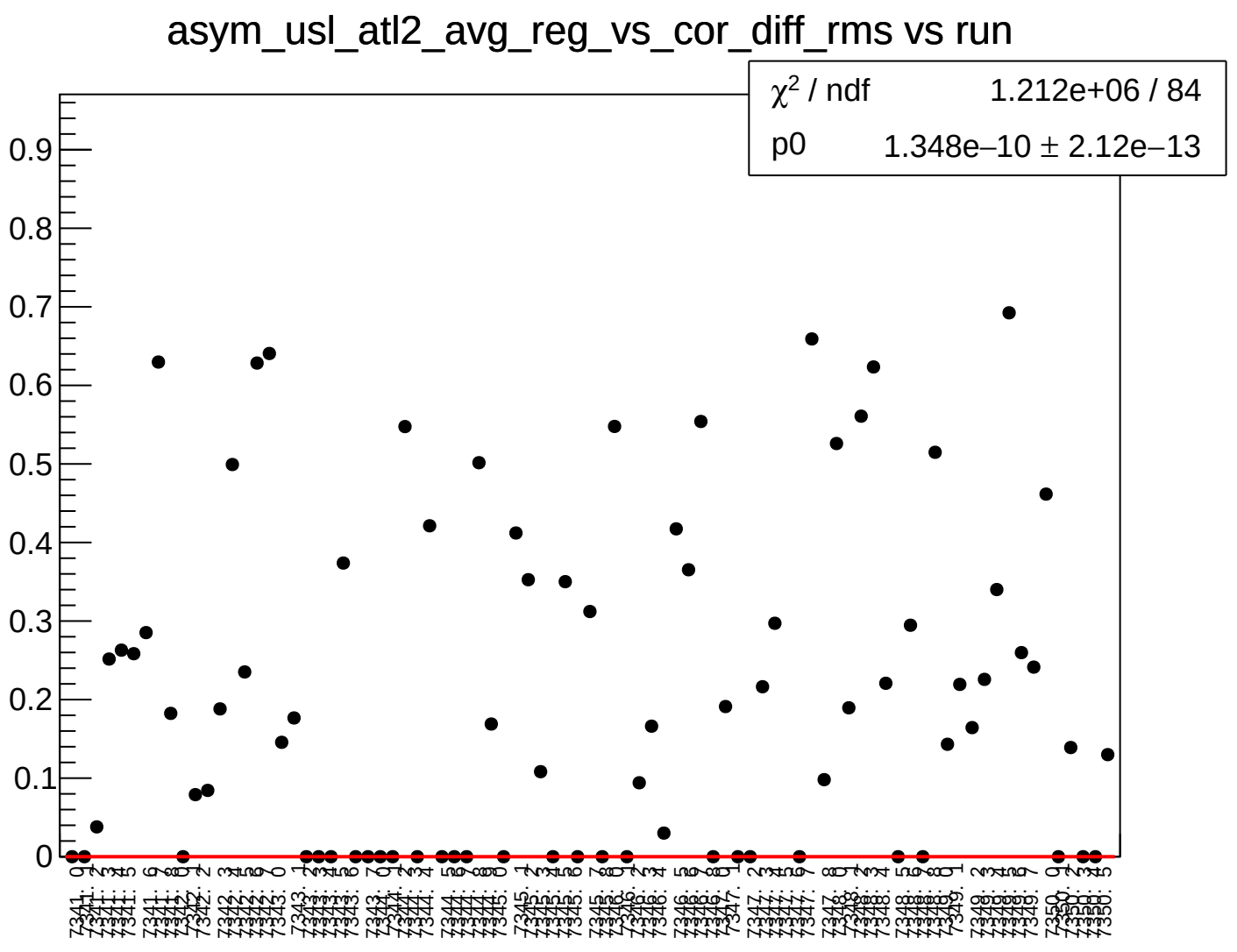

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 72.72 / 84
p0 6588 ± 8616
200
100
0
−100
−200
pull
Entries 85
Mean −140.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

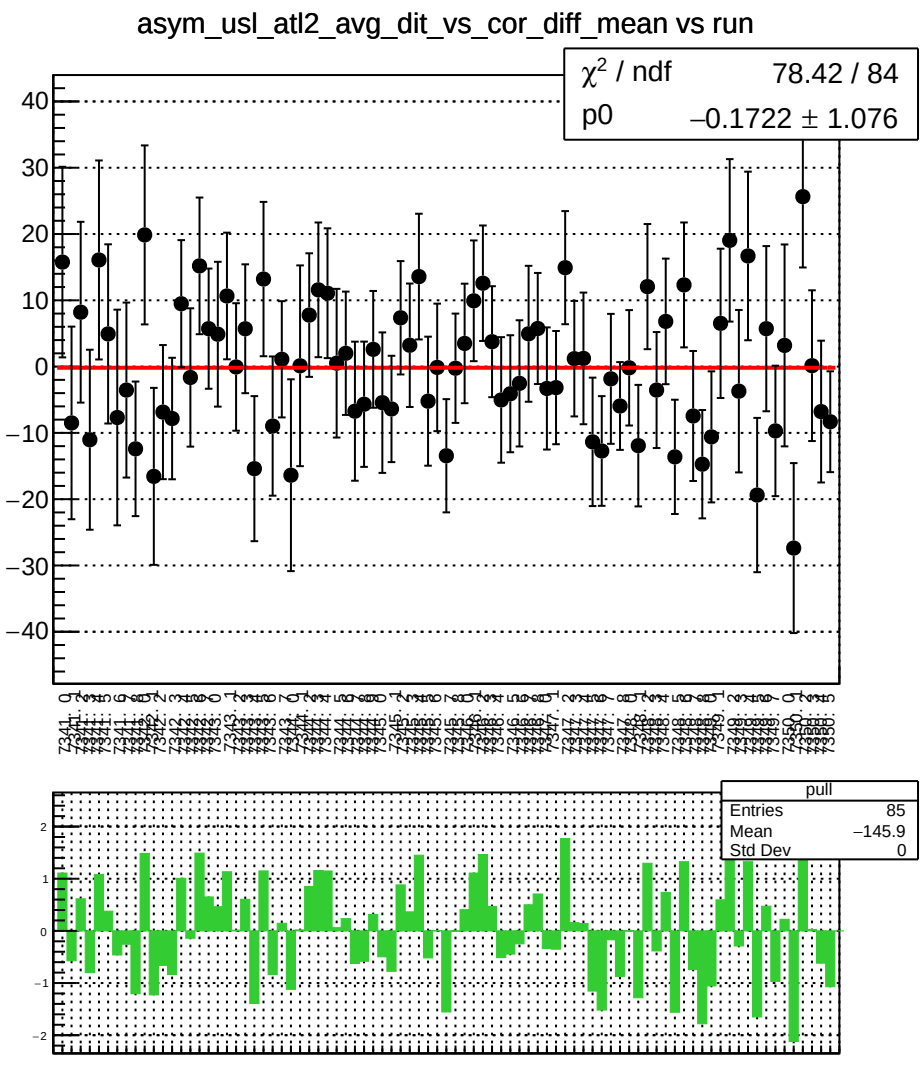

pull1D
Entries 85
Mean −0.02076
Std Dev 0.9247
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

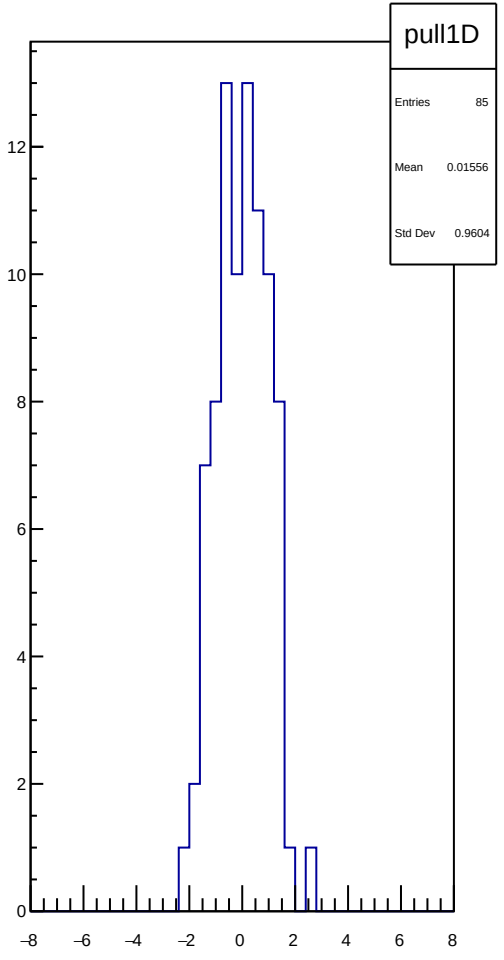

asym_usl_atl2_avg_rms vs run
χ^2 / ndf 8281 / 84
p0 7726 ± 6.092
10000
9500
9000
8500
8000
7500
7000
6500

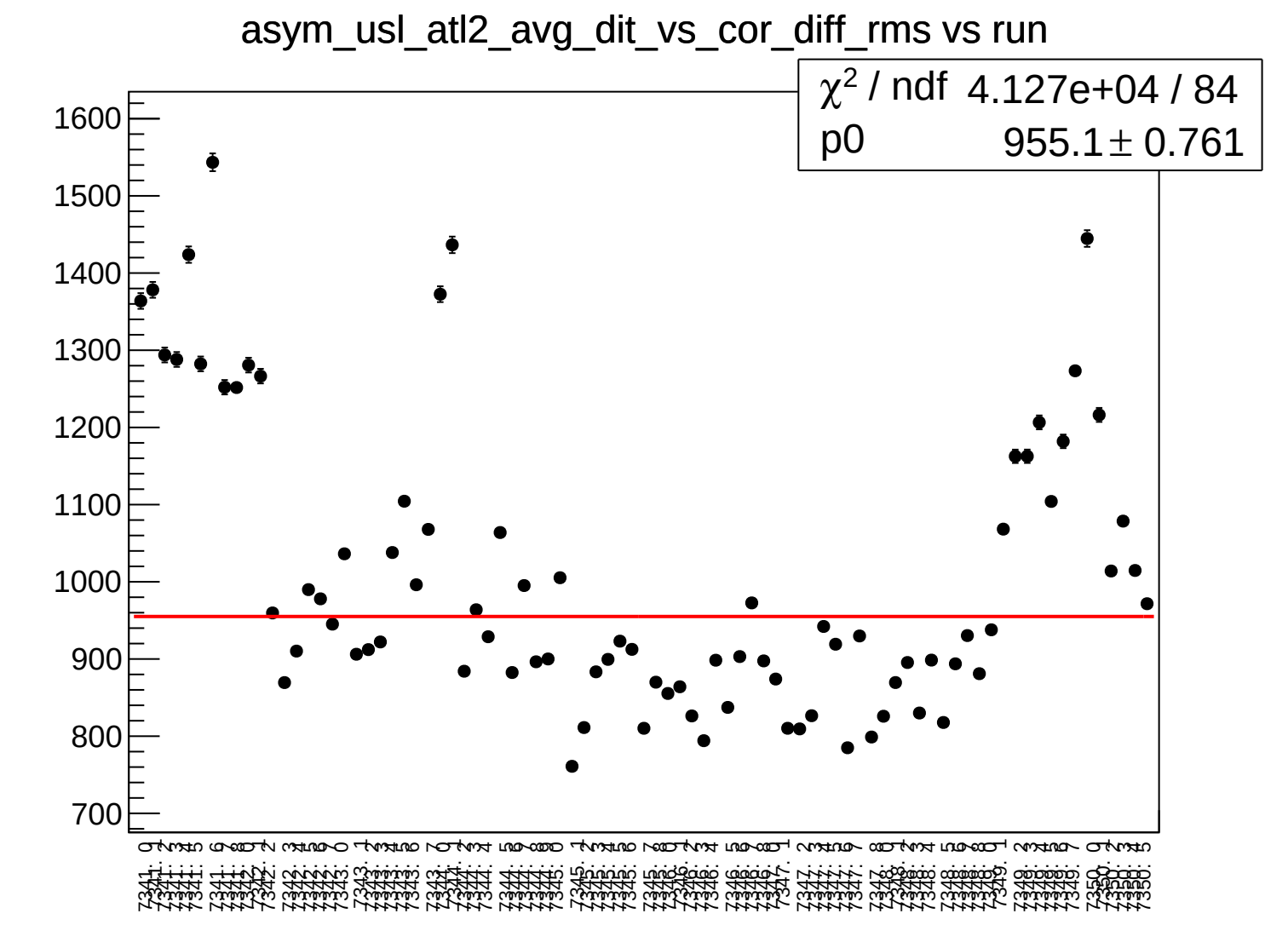

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.16 / 84
p0 −3.436e−13 ± 2.999e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 85
Mean 55.75
Std Dev 24.99
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

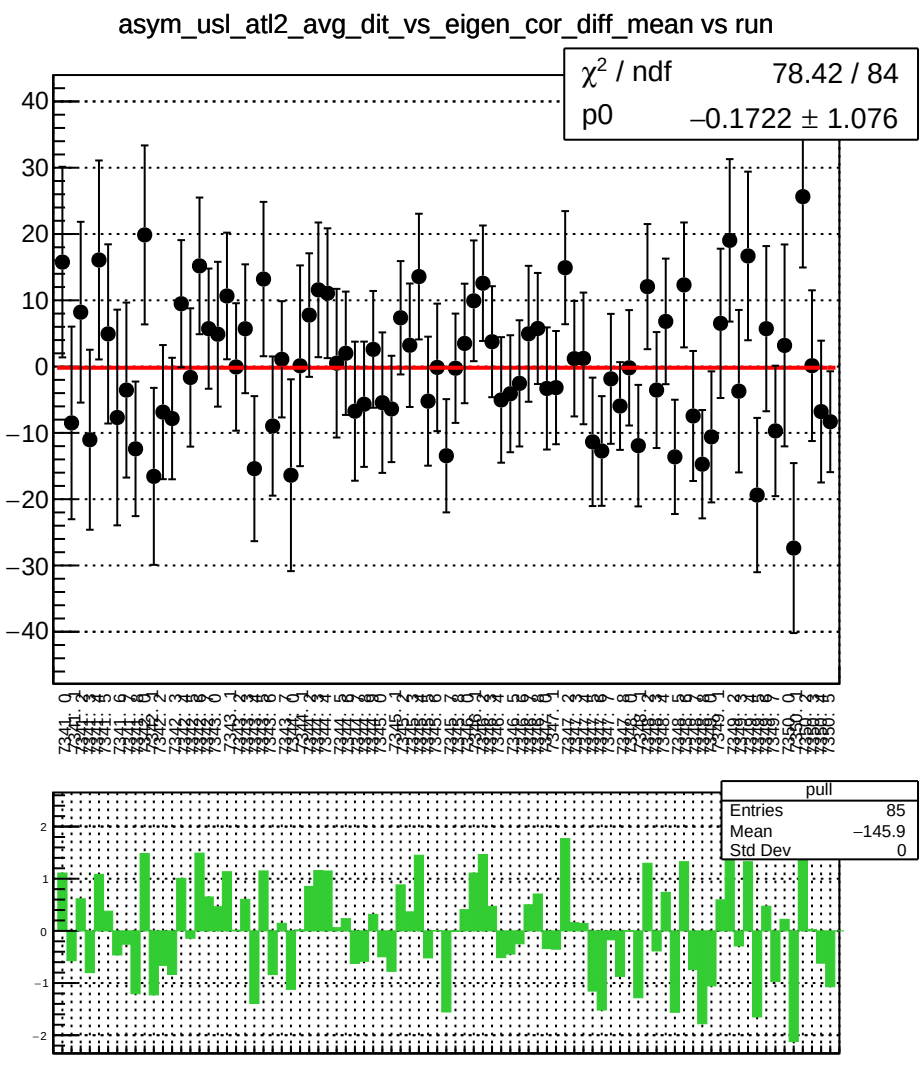

pull1D
Entries 85
Mean −0.1073
Std Dev 0.8824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

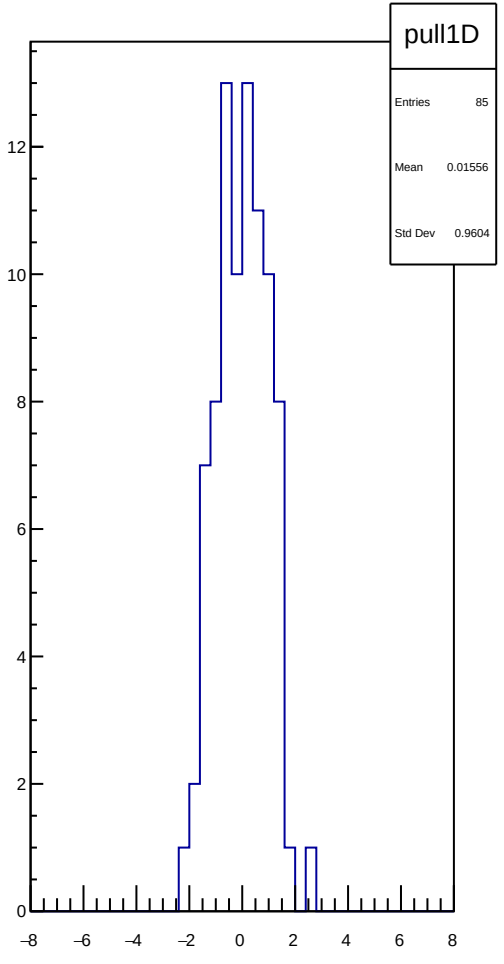

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.212e+06 / 84
p0 1.348e−10 ± 2.12e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

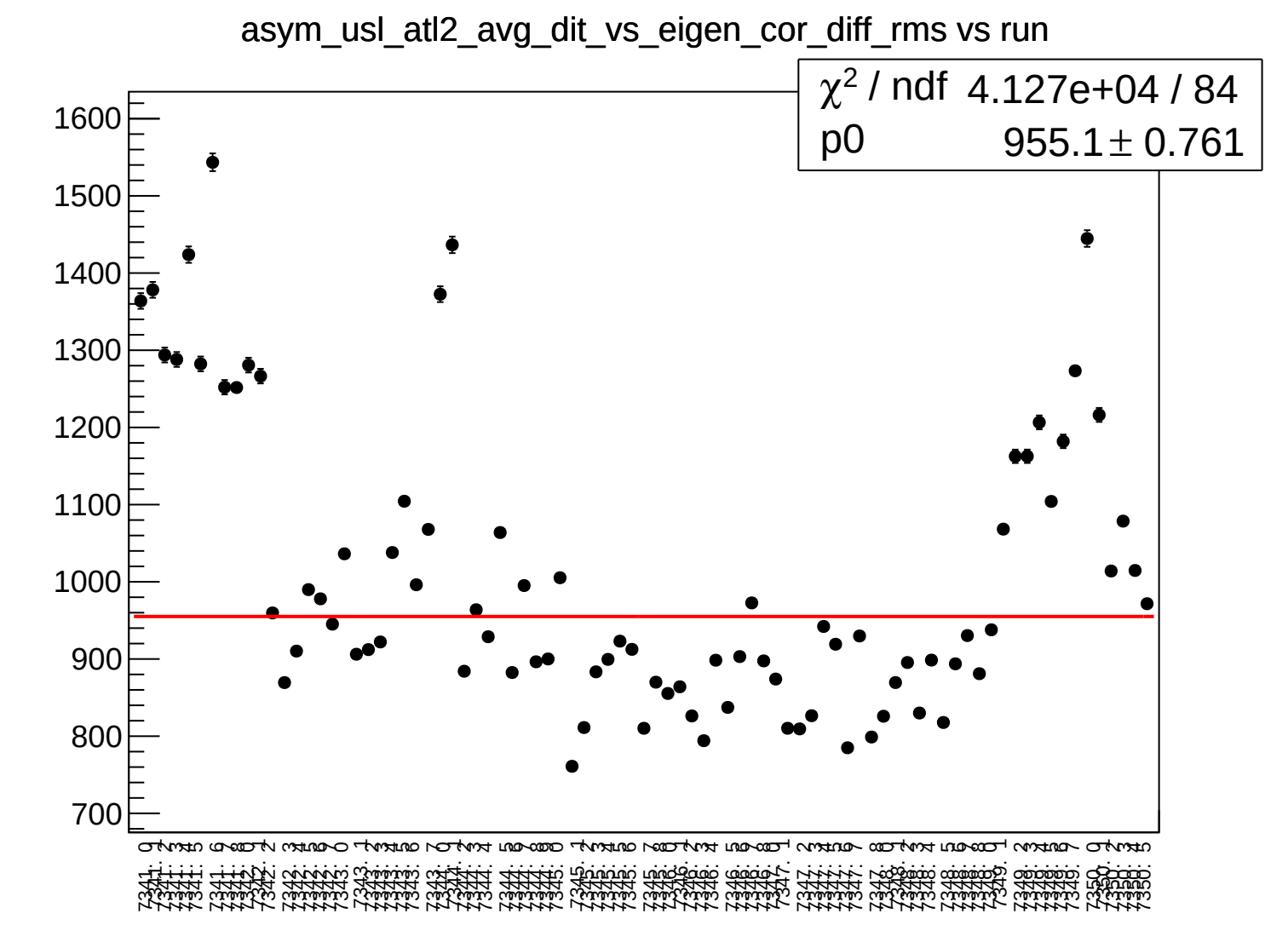

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.42 / 84
p0 −0.1722 ± 1.076
pull
Entries 85
Mean −145.9
Std Dev 0

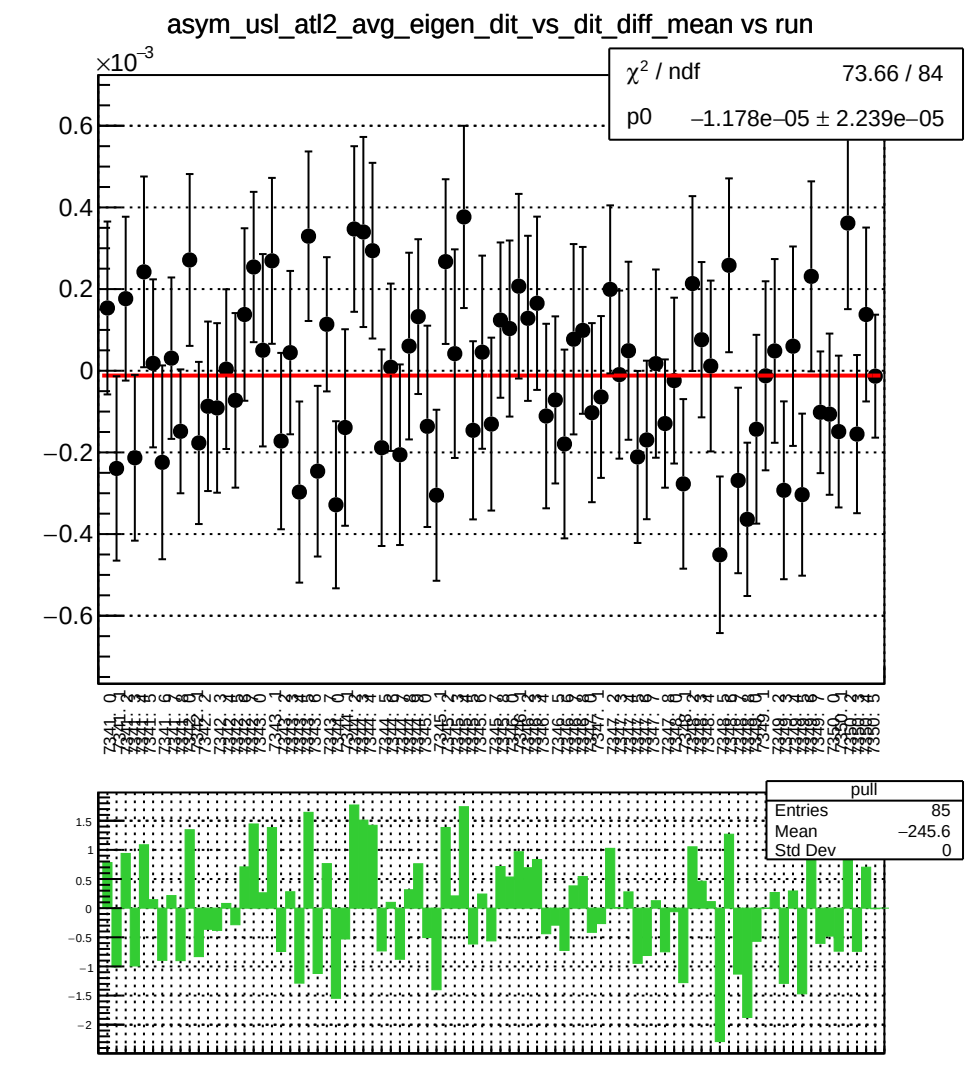

pull1D
Entries 85
Mean 0.01556
Std Dev 0.9604

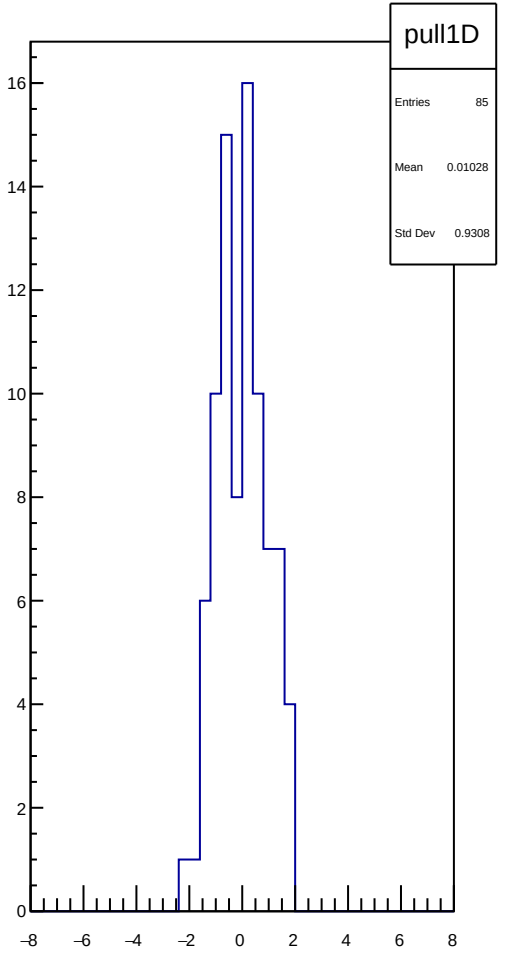

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.127e+04 / 84
p0 955.1 ± 0.761
1600
1500
1400
1300
1200
1100
1000
900
800
700

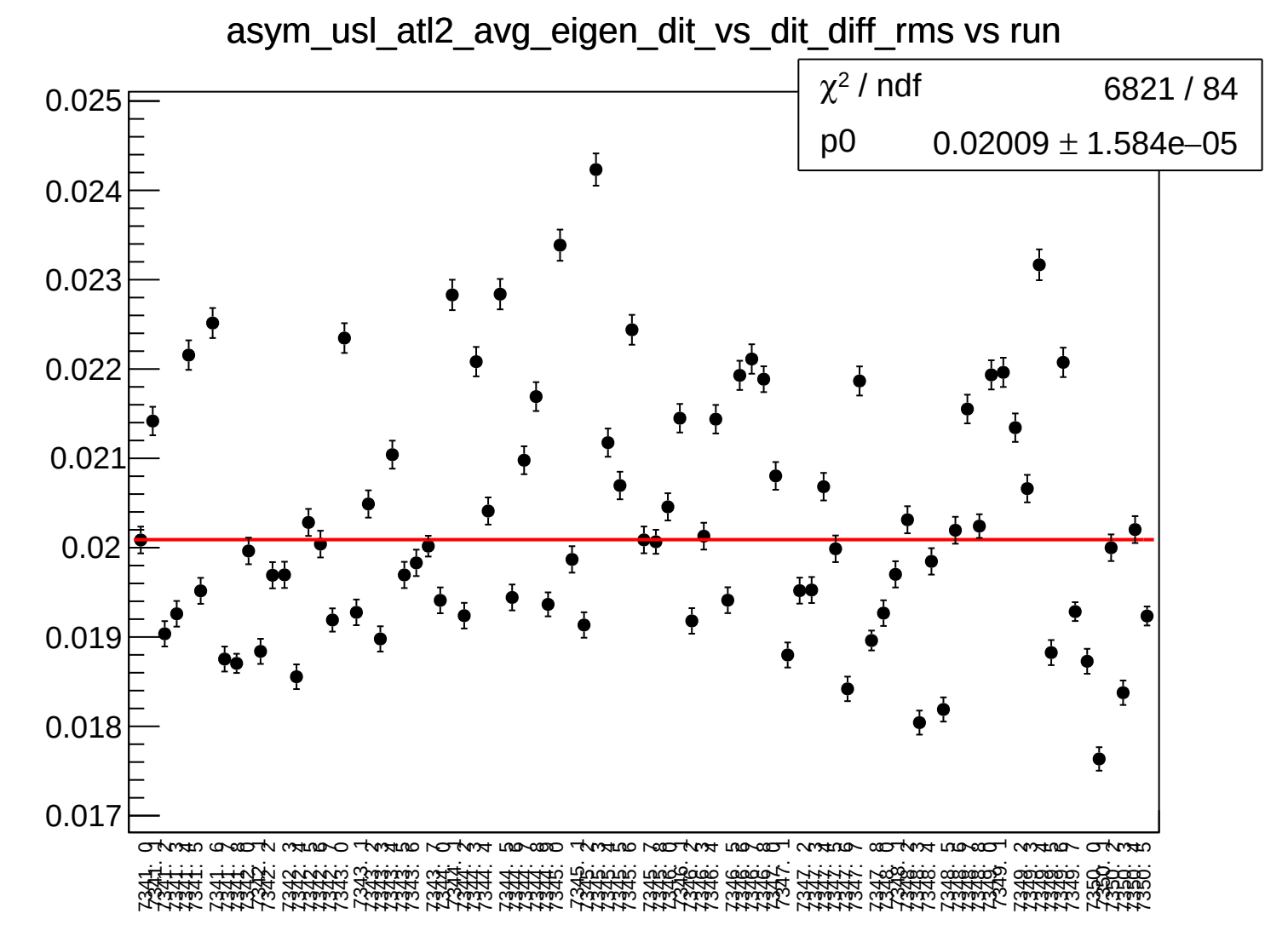

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.42 / 84
p0 −0.1722 ± 1.076
pull
Entries 85
Mean −145.9
Std Dev 0

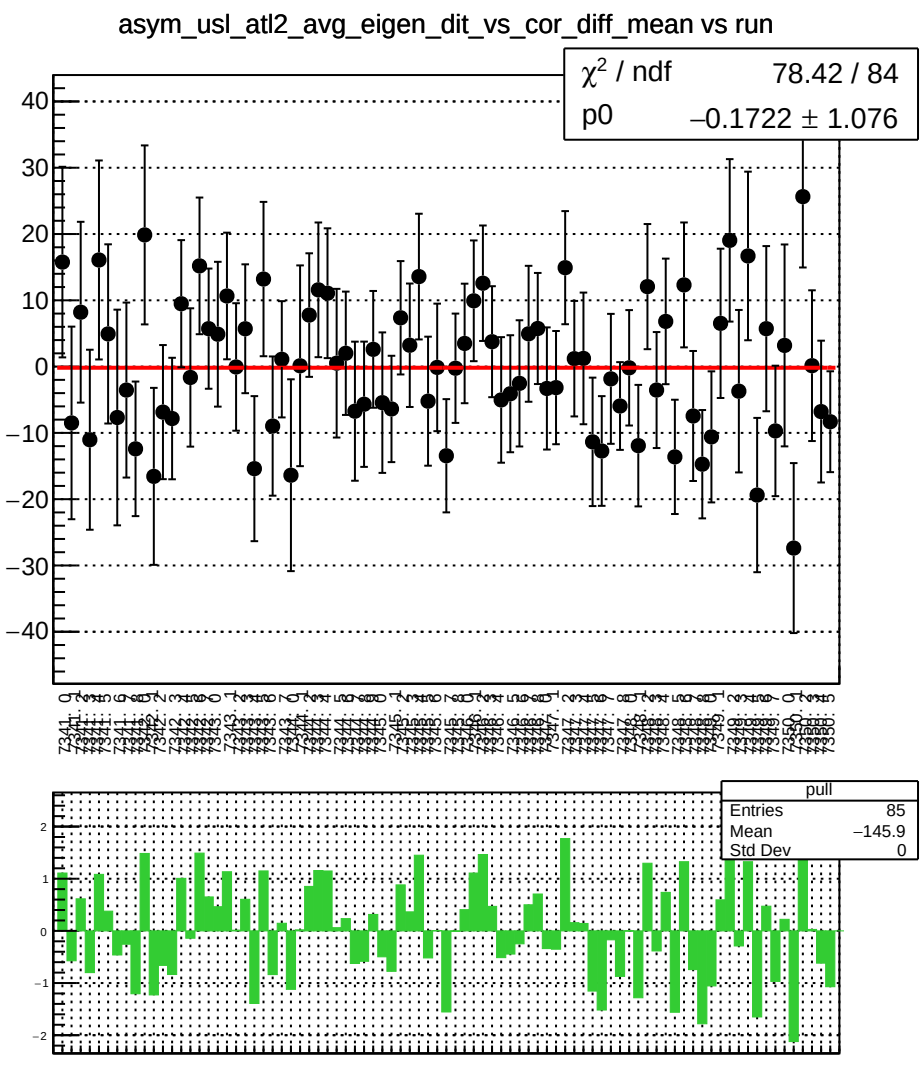

pull1D
Entries 85
Mean 0.01556
Std Dev 0.9604

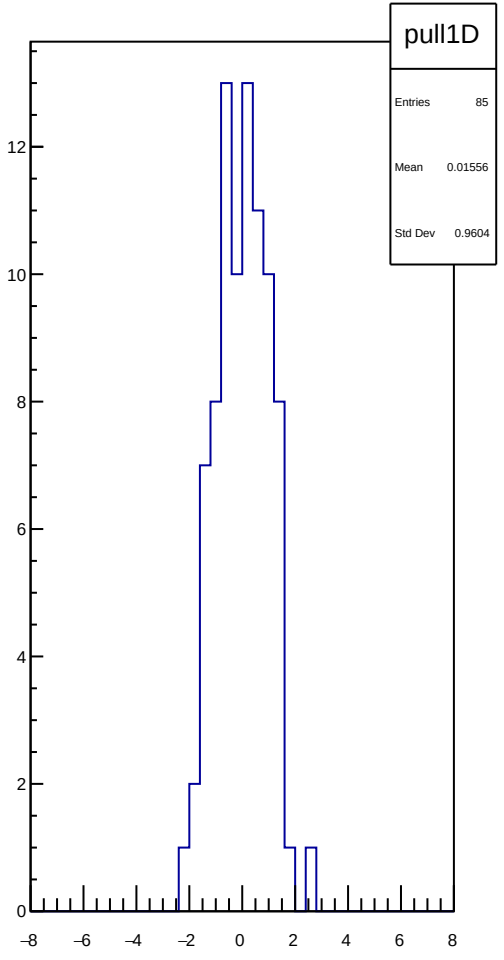

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.127e+04 / 84
p0 955.1 ± 0.761
1600
1500
1400
1300
1200
1100
1000
900
800
700

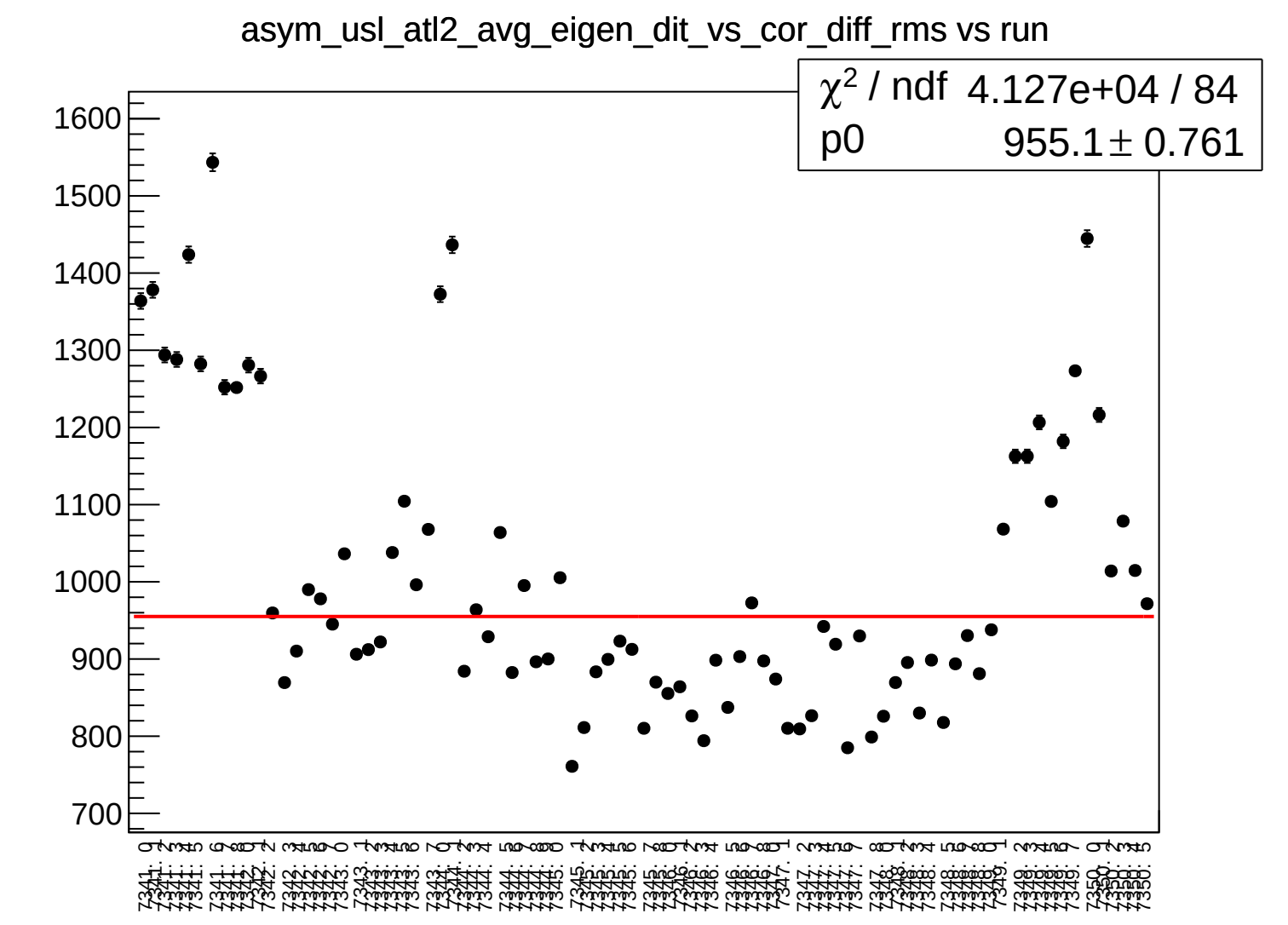

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.66 / 84
p0 −1.178e−05 ± 2.239e−05
pull
Entries 85
Mean −245.6
Std Dev 0

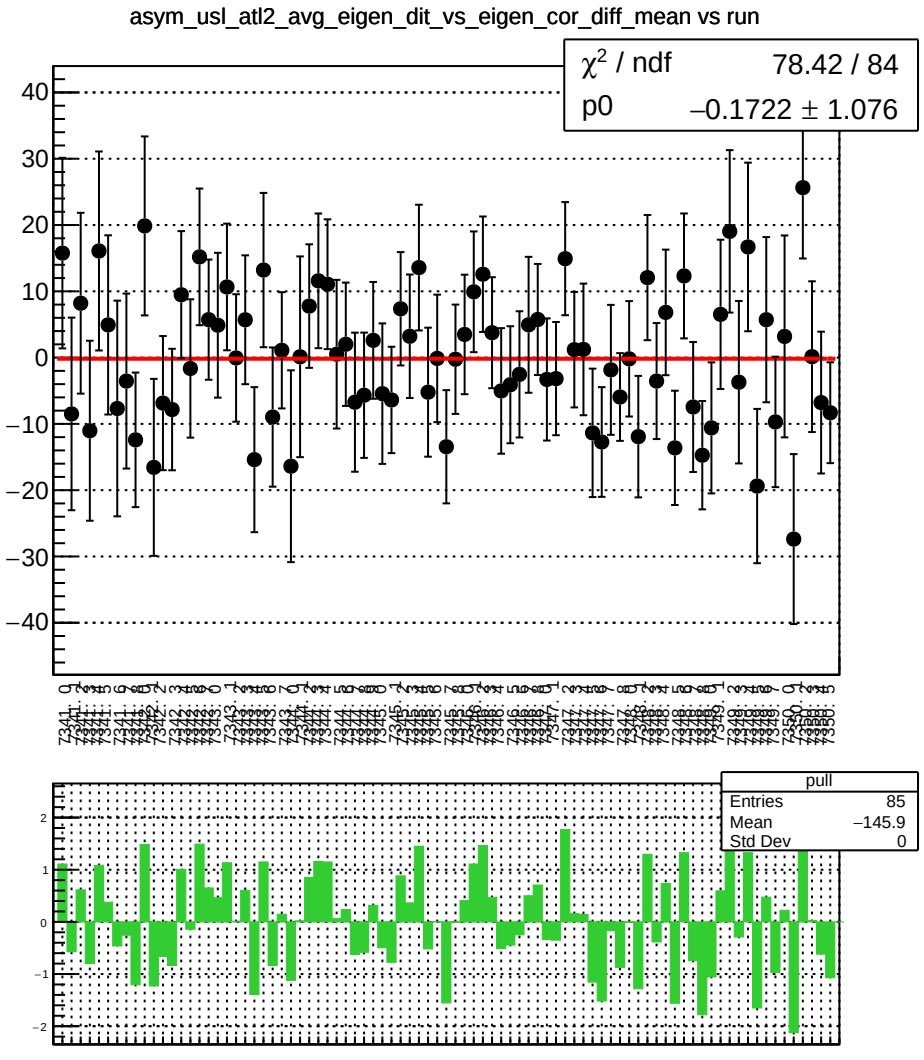

pull1D
Entries 85
Mean 0.01028
Std Dev 0.9308

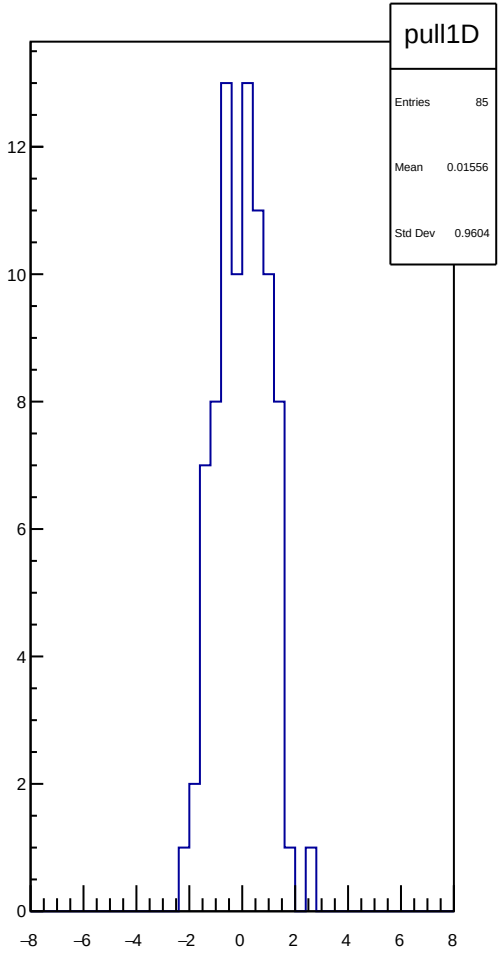

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6821 / 84
p0 0.02009 ± 1.584e–05
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

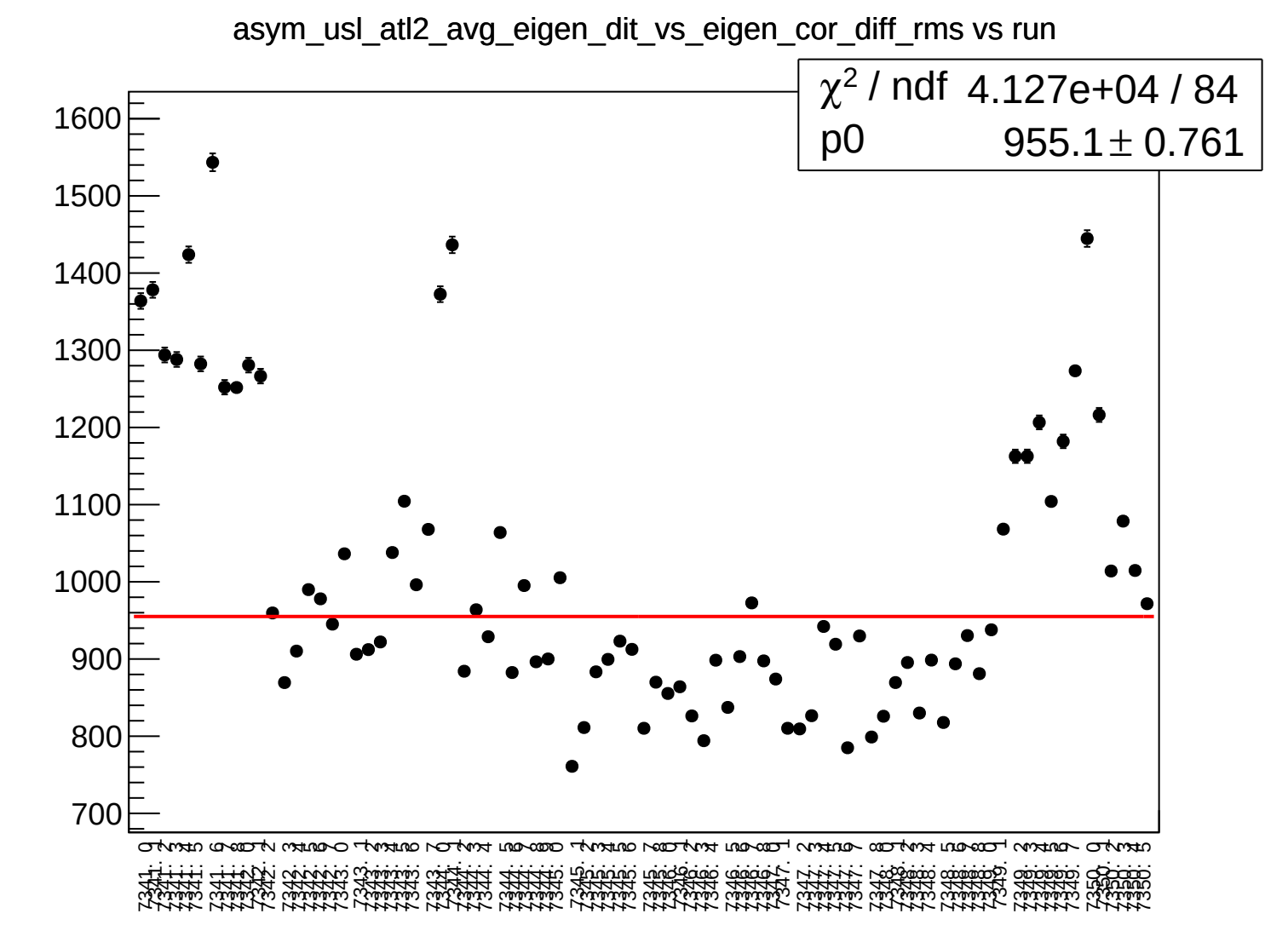

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.42 / 84
p0 −0.1722 ± 1.076
pull
Entries 85
Mean −145.9
Std Dev 0

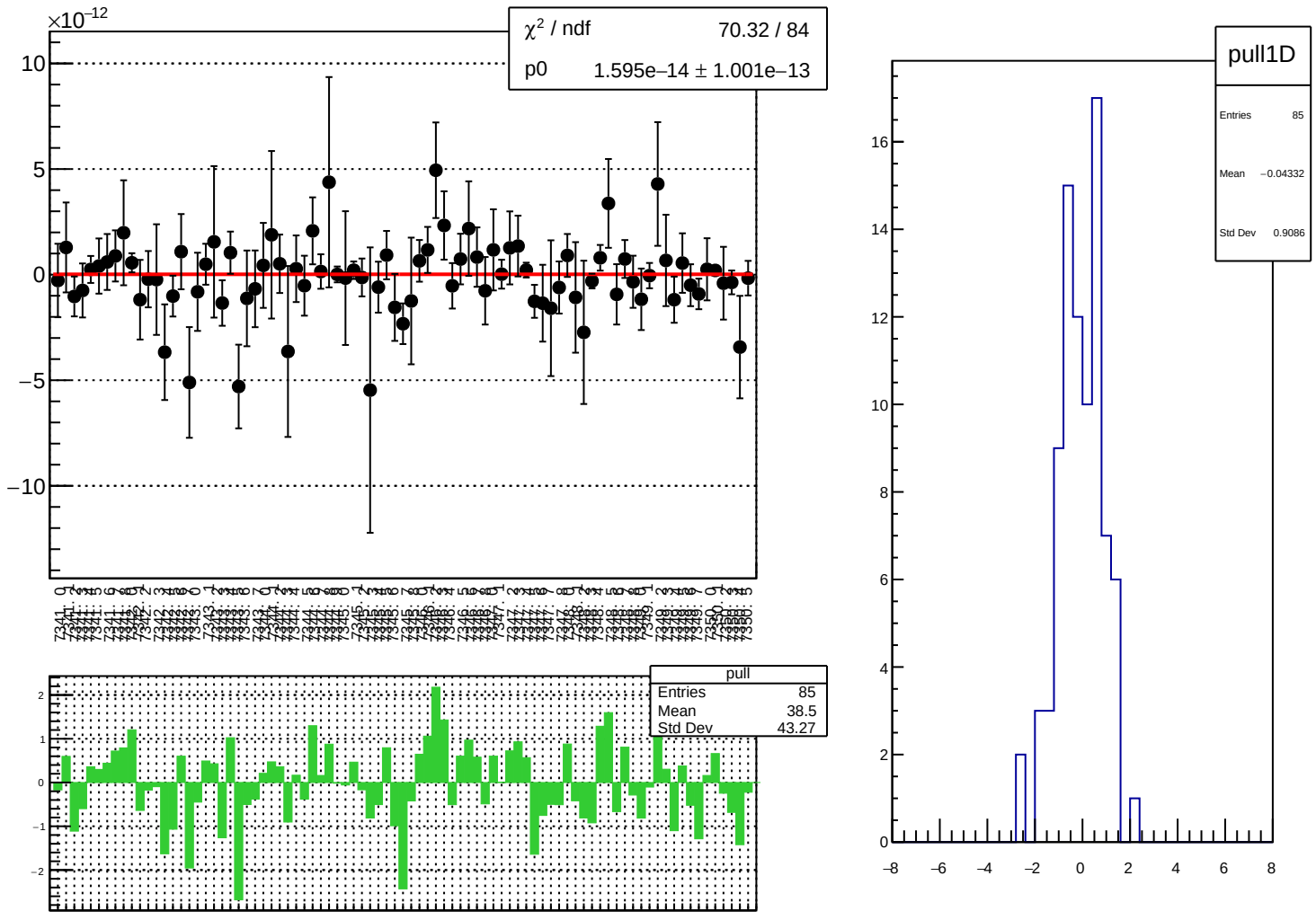

pull1D
Entries 85
Mean 0.01556
Std Dev 0.9604

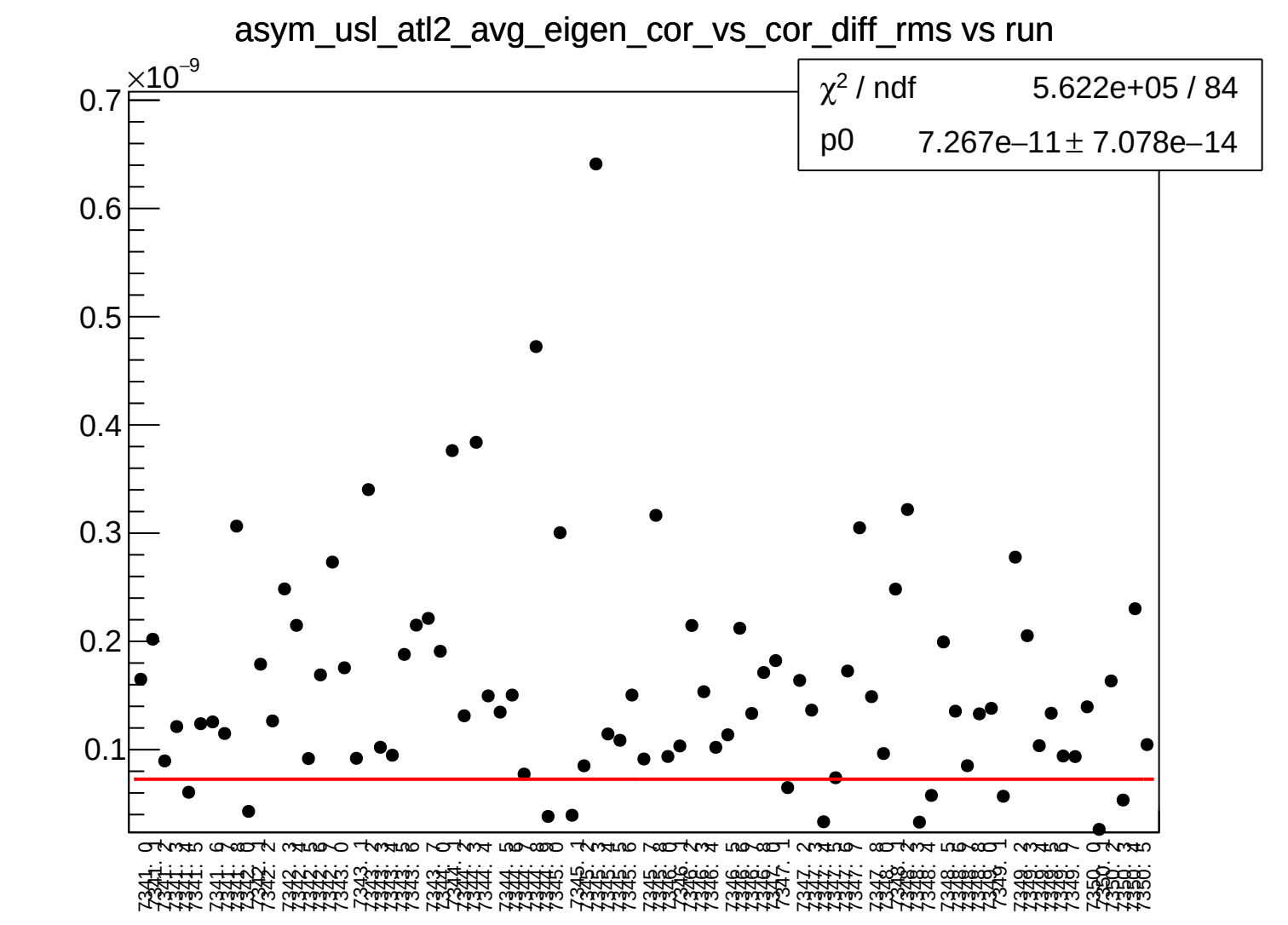

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.127e+04 / 84
p0 955.1 ± 0.761
1600
1500
1400
1300
1200
1100
1000
900
800
700

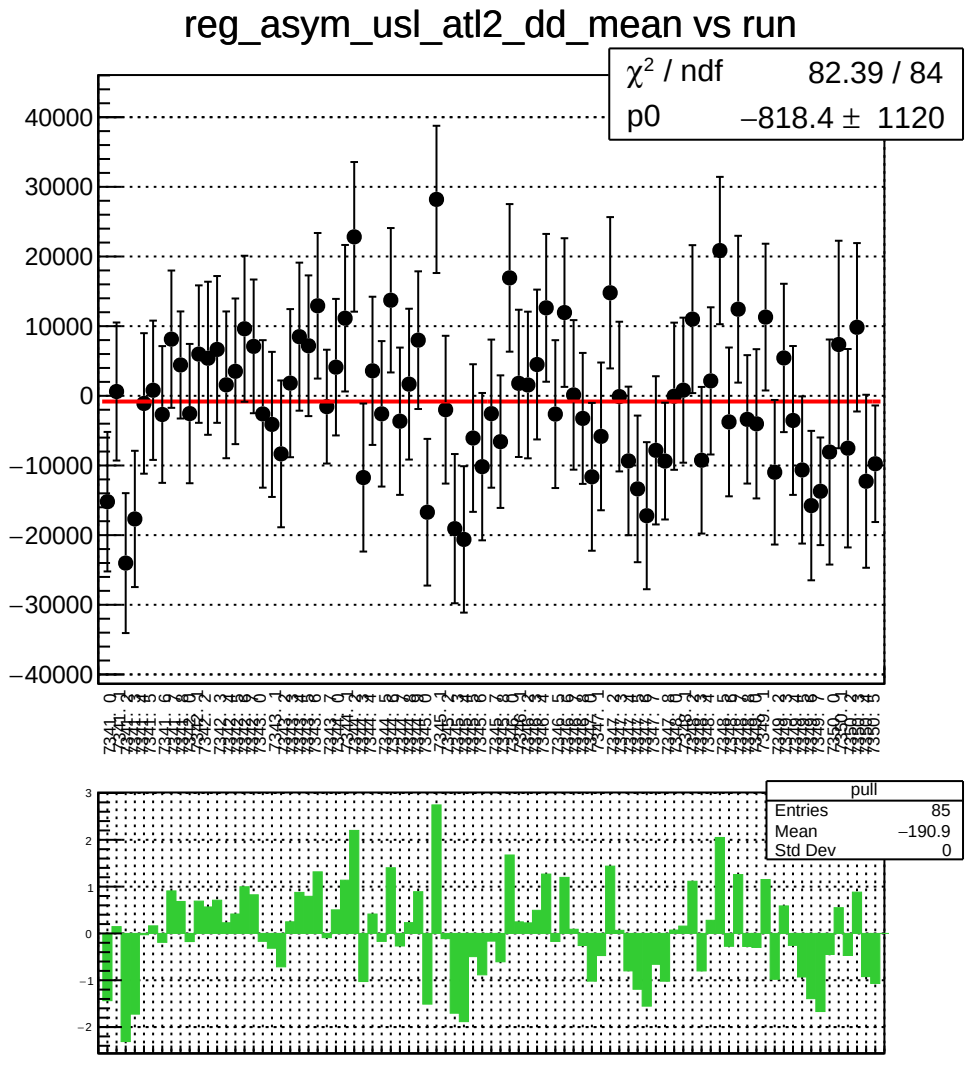

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.42 / 84
p0 −0.1722 ± 1.076
pull
Entries 85
Mean −145.9
Std Dev 0

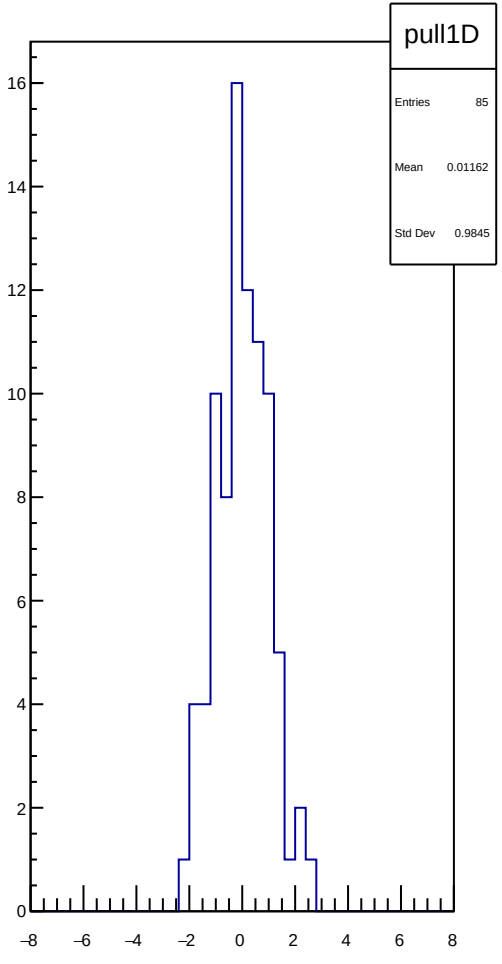

pull1D
Entries 85
Mean 0.01556
Std Dev 0.9604

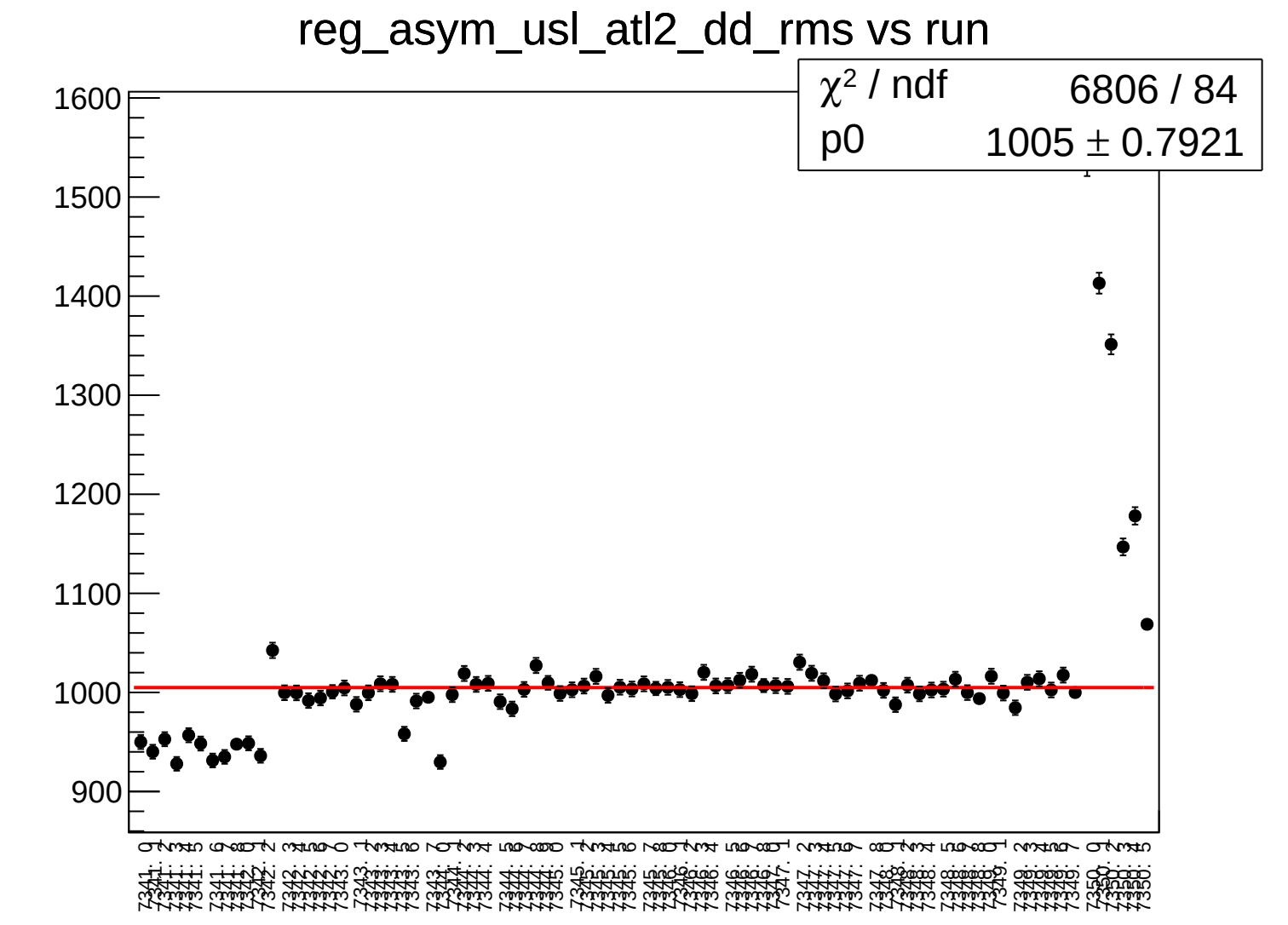

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.127e+04 / 84
p0 955.1 ± 0.761
1600
1500
1400
1300
1200
1100
1000
900
800
700

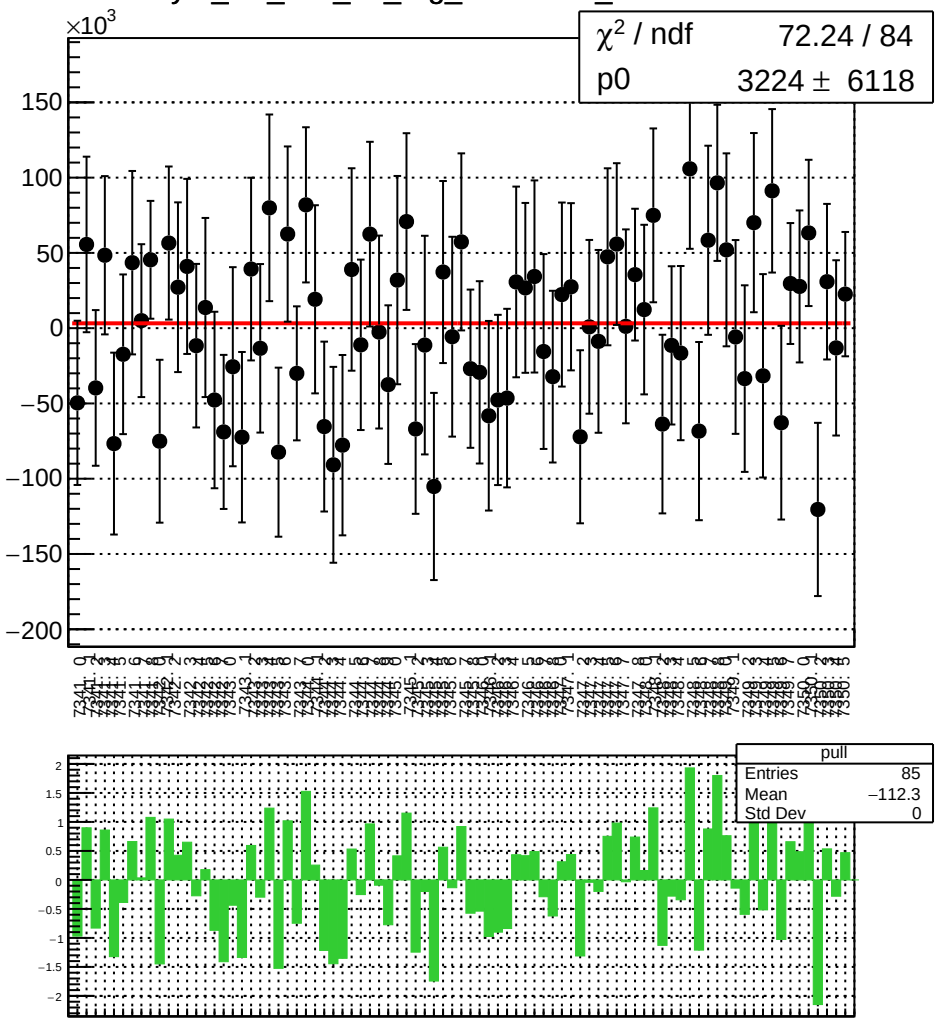

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.32 / 84
p0 1.595e−14 ± 1.001e−13
10
5
0
−5
−10
pull
Entries 85
Mean 38.5
Std Dev 43.27
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.04332
Std Dev 0.9086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

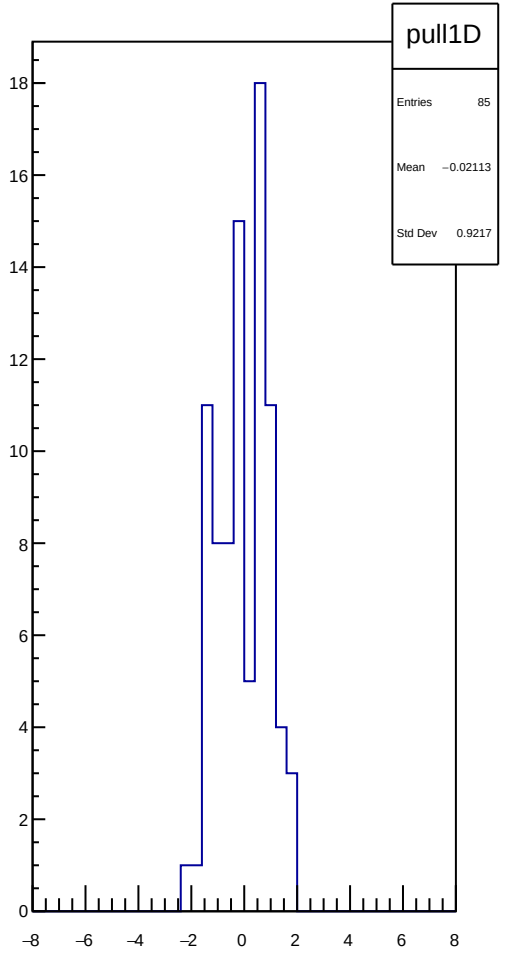

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.622e+05 / 84
p0 7.267e−11 ± 7.078e−14

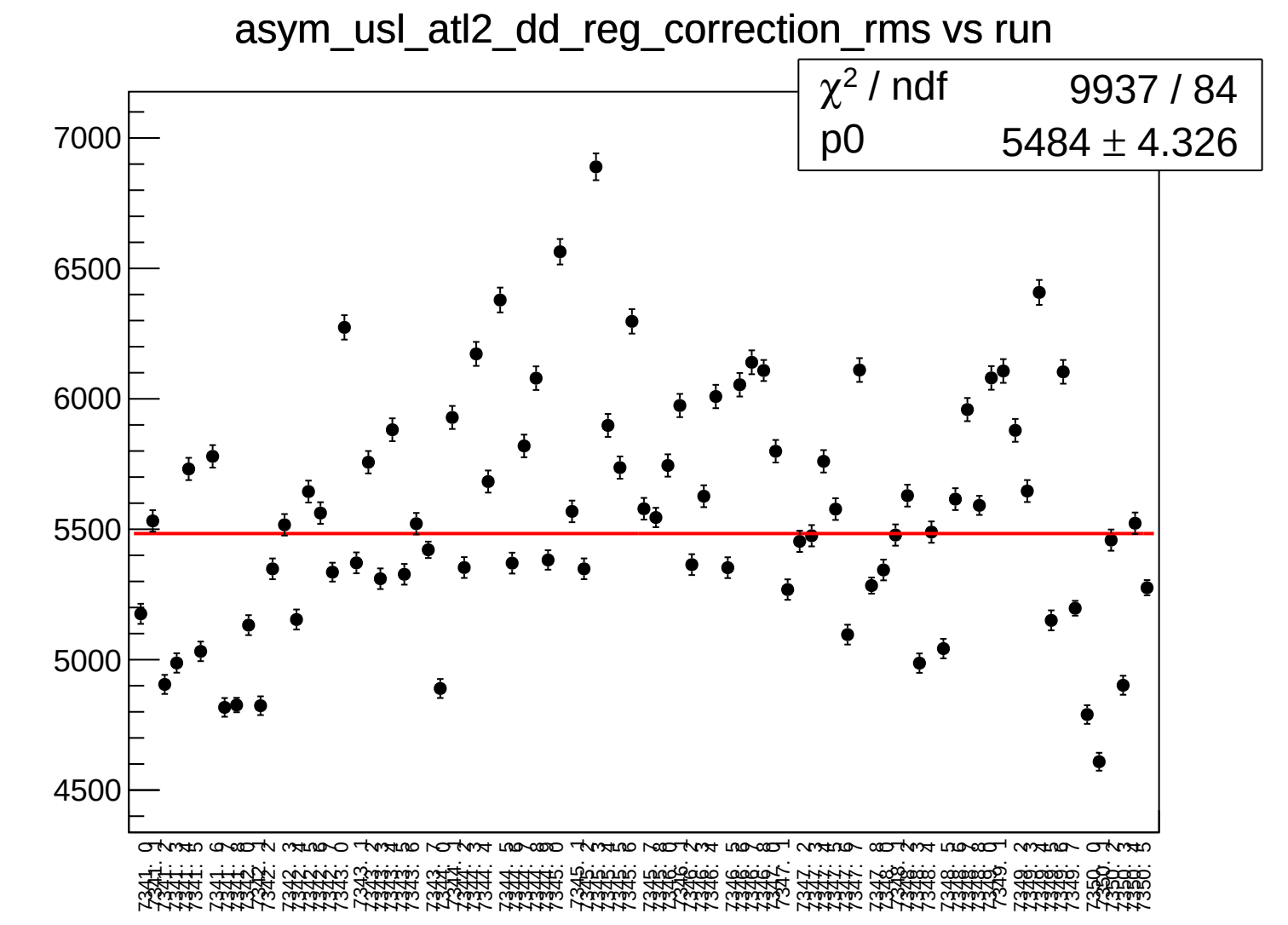

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 82.39 / 84
p0 −818.4 ± 1120
pull
Entries 85
Mean −190.9
Std Dev 0

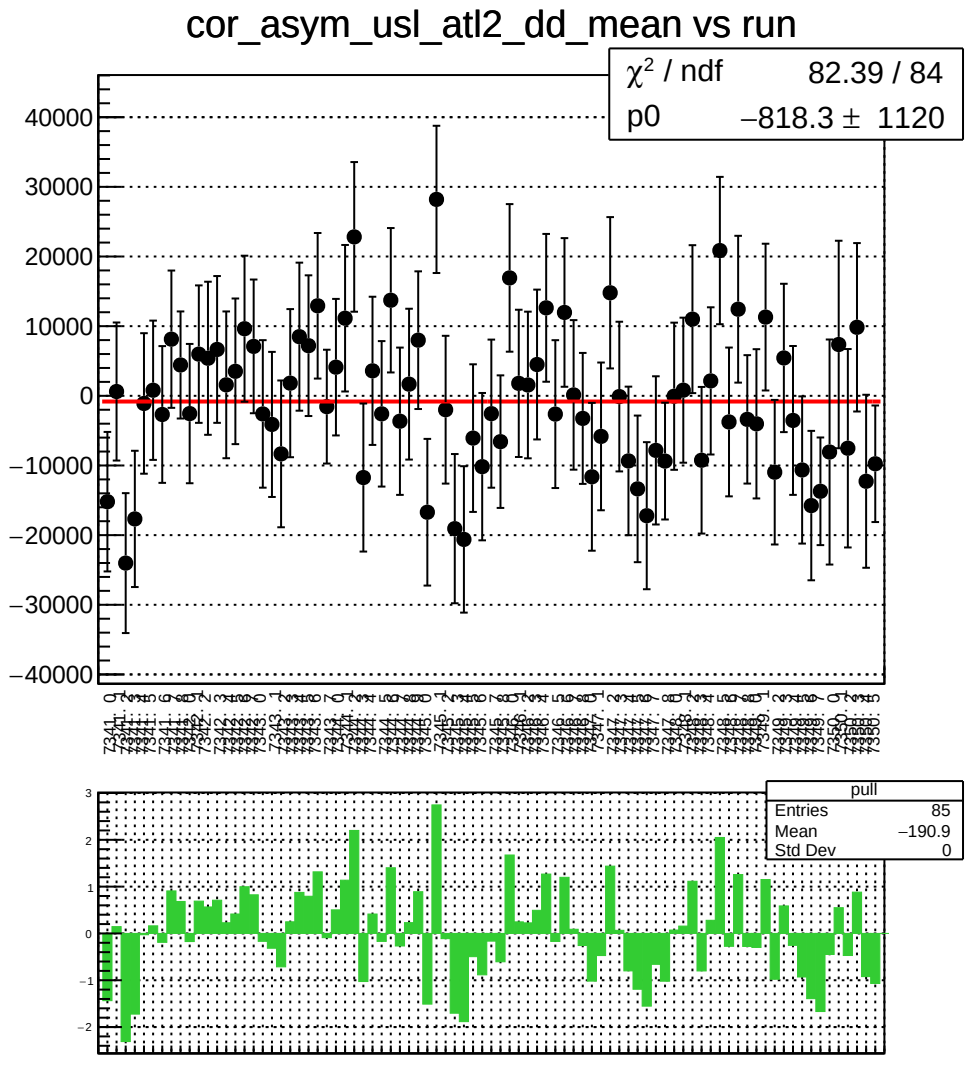

pull1D
Entries 85
Mean 0.01162
Std Dev 0.9845

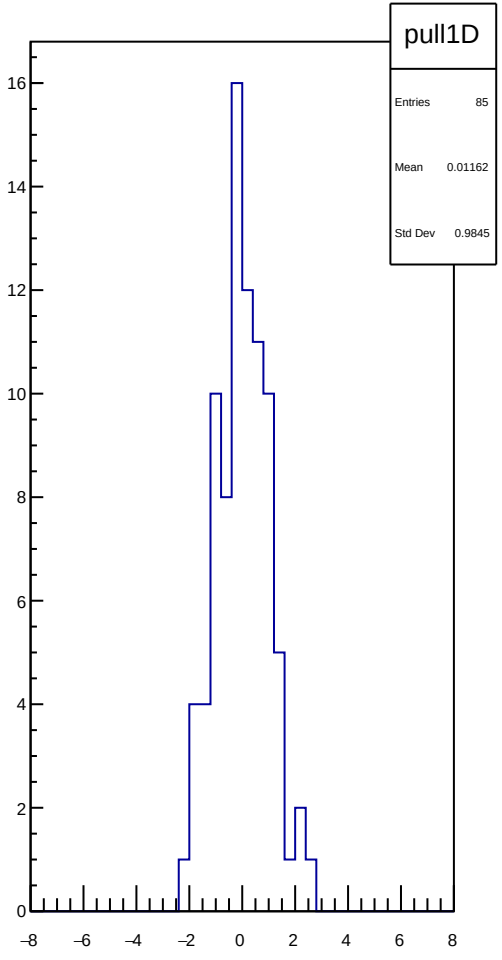

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 6806 / 84
p0 1005 ± 0.7921
1600
1500
1400
1300
1200
1100
1000
900

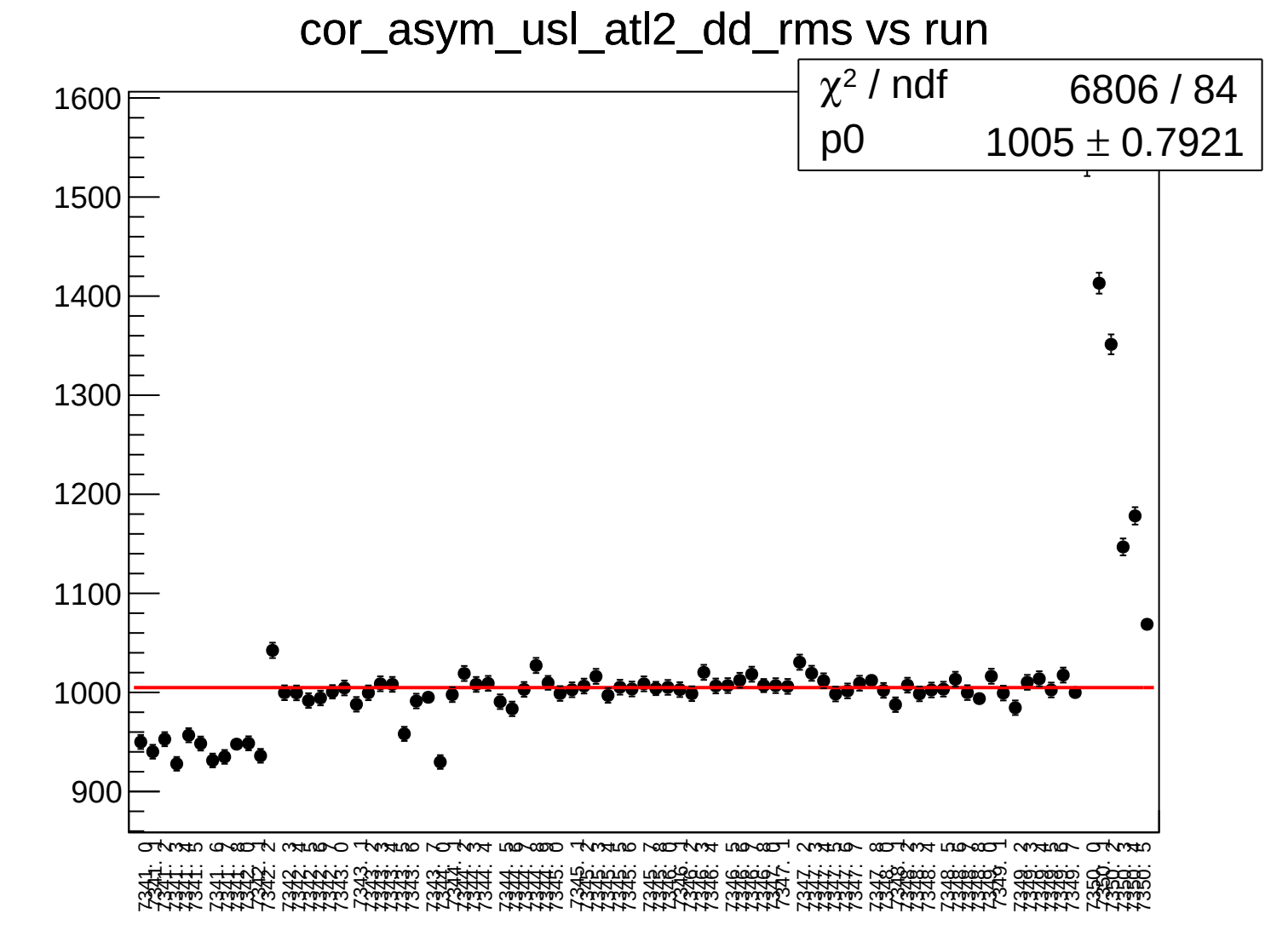

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 72.24 / 84
p0 3224 ± 6118
×10³
pull
Entries 85
Mean −112.3
Std Dev 0

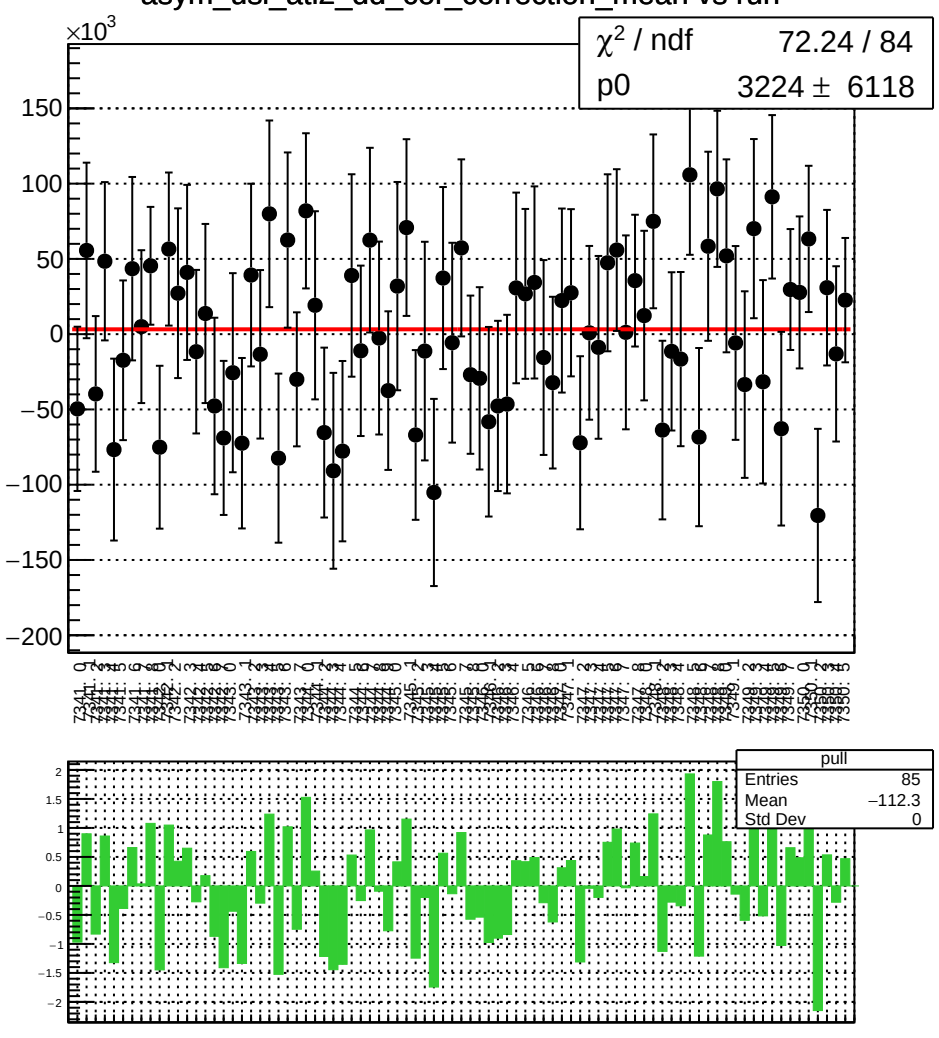

pull1D
Entries 85
Mean −0.02113
Std Dev 0.9217

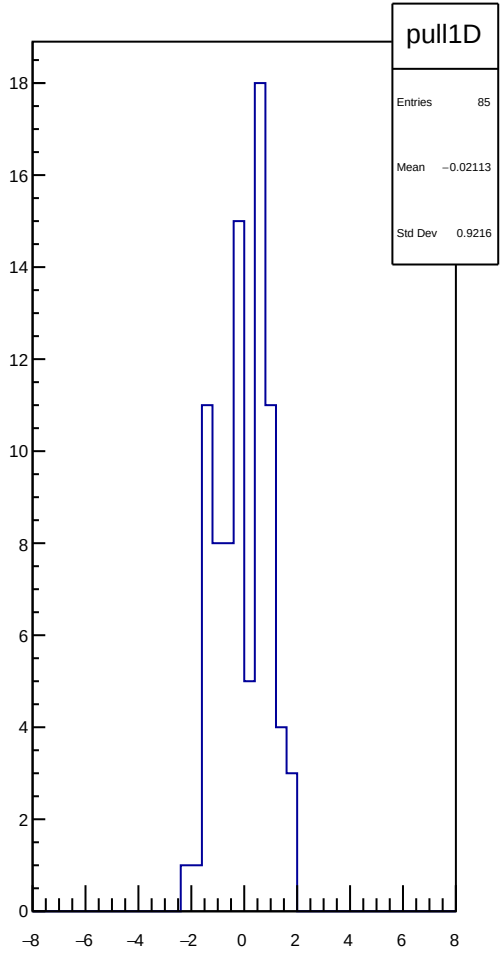

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 9937 / 84
p0 5484 ± 4.326
7000
6500
6000
5500
5000
4500

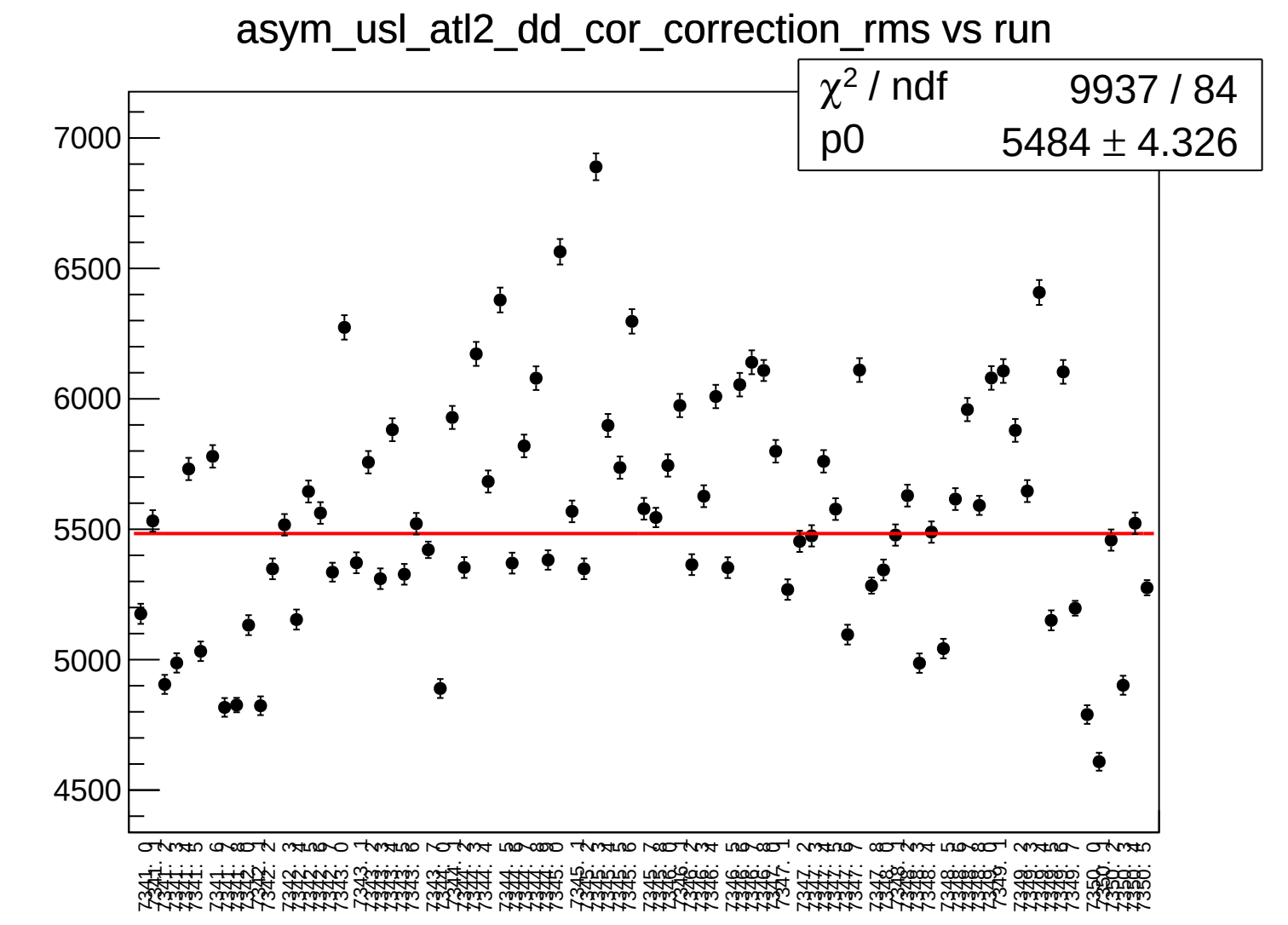

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 82.39 / 84
p0 −818.3 ± 1120
pull
Entries 85
Mean −190.9
Std Dev 0

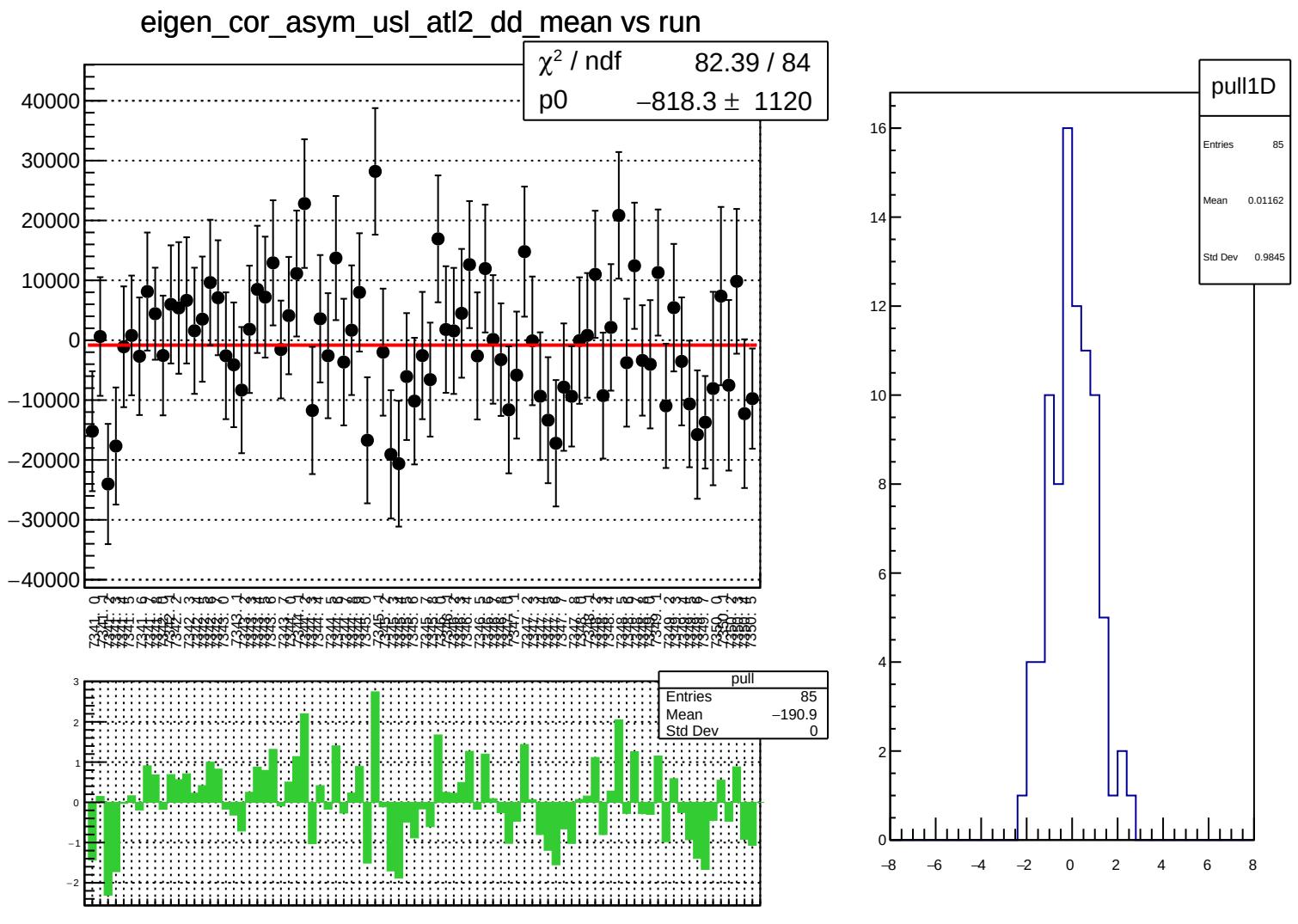

pull1D
Entries 85
Mean 0.01162
Std Dev 0.9845

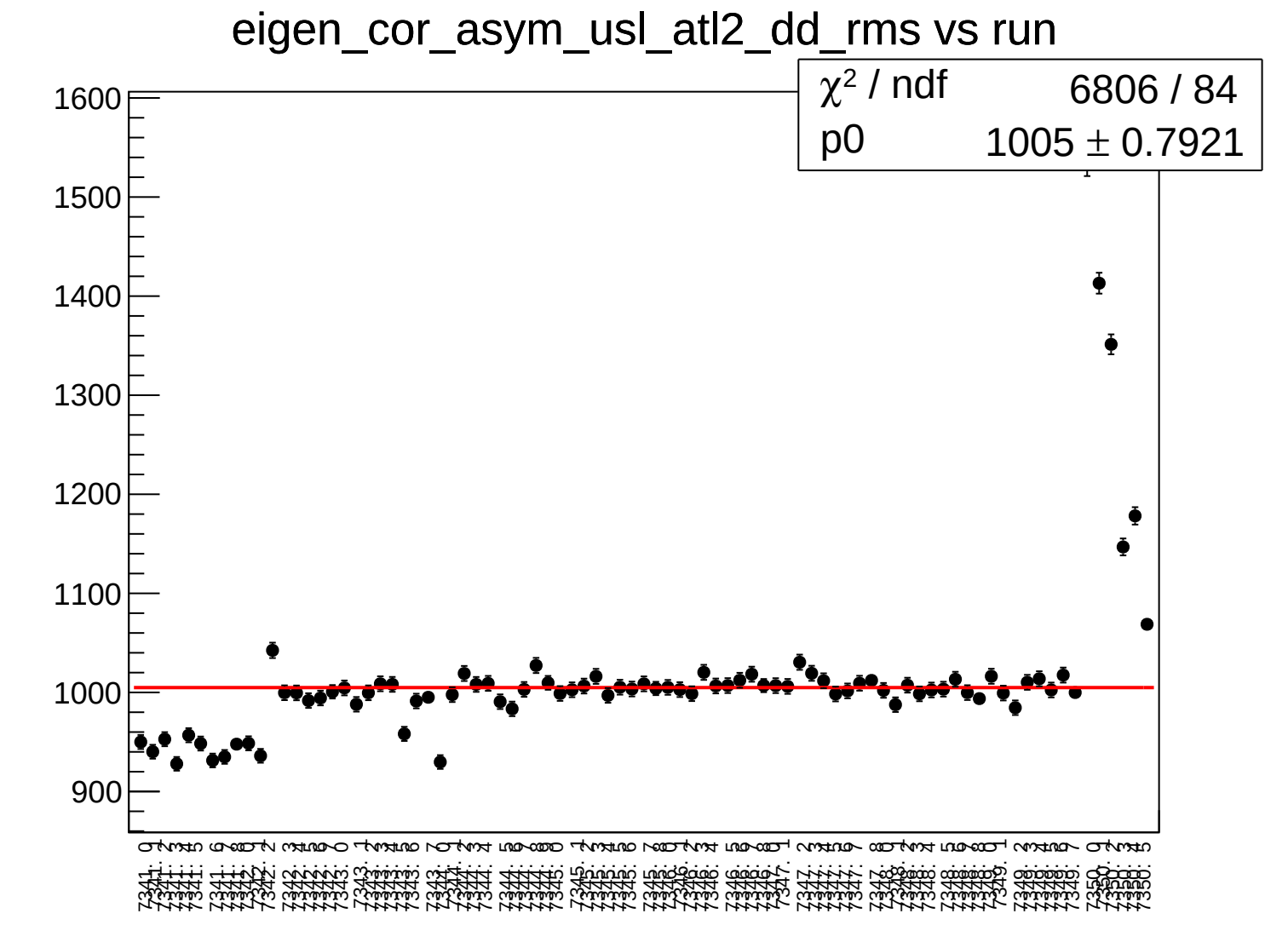

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 6806 / 84
p0 1005 ± 0.7921
1600
1500
1400
1300
1200
1100
1000
900

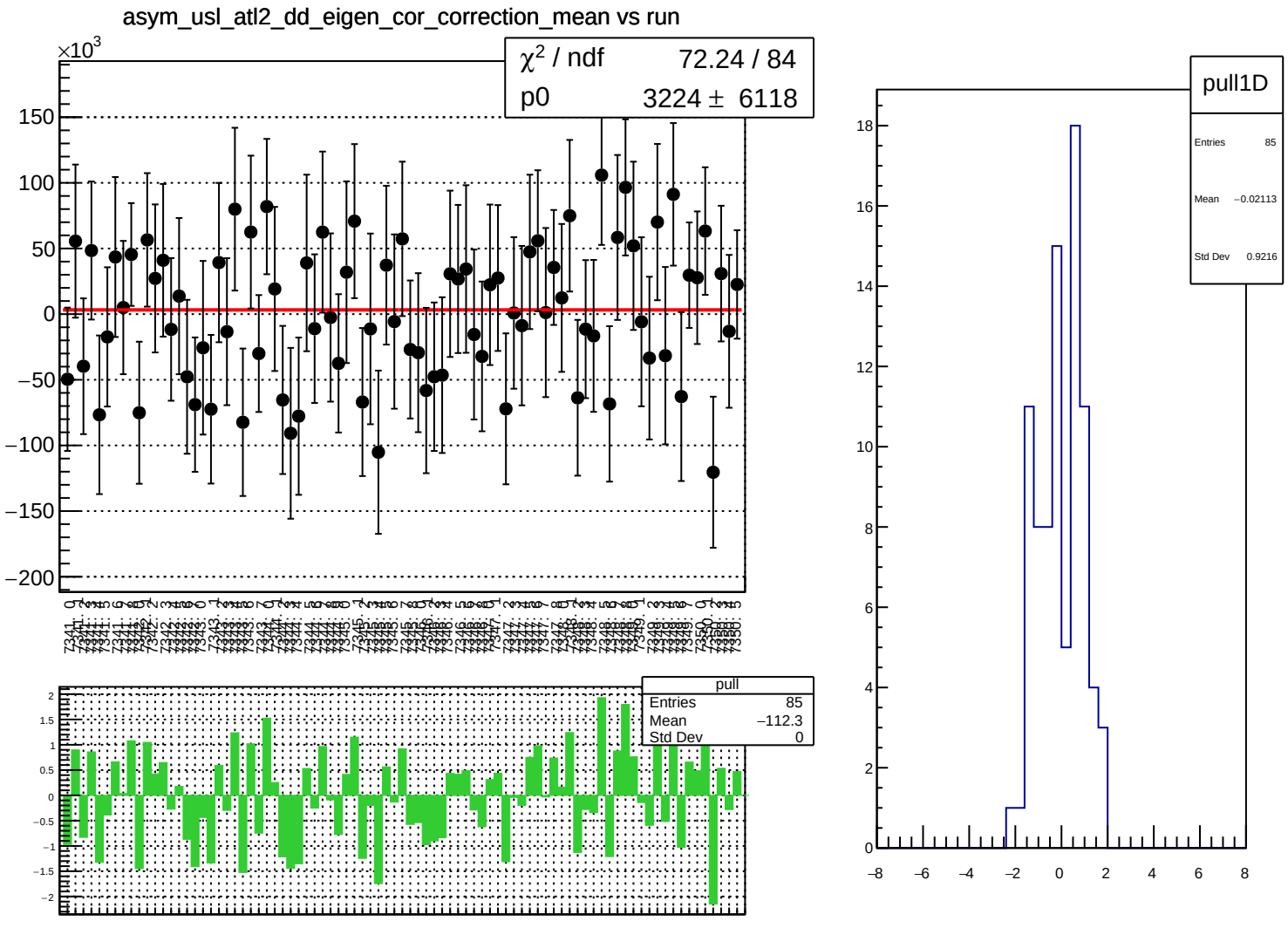

asym_usl_atl2_dd_cor_correction_mean vs run
χ² / ndf 72.24 / 84
p0 3224 ± 6118
×10³
pull
Entries 85
Mean −112.3
Std Dev 0

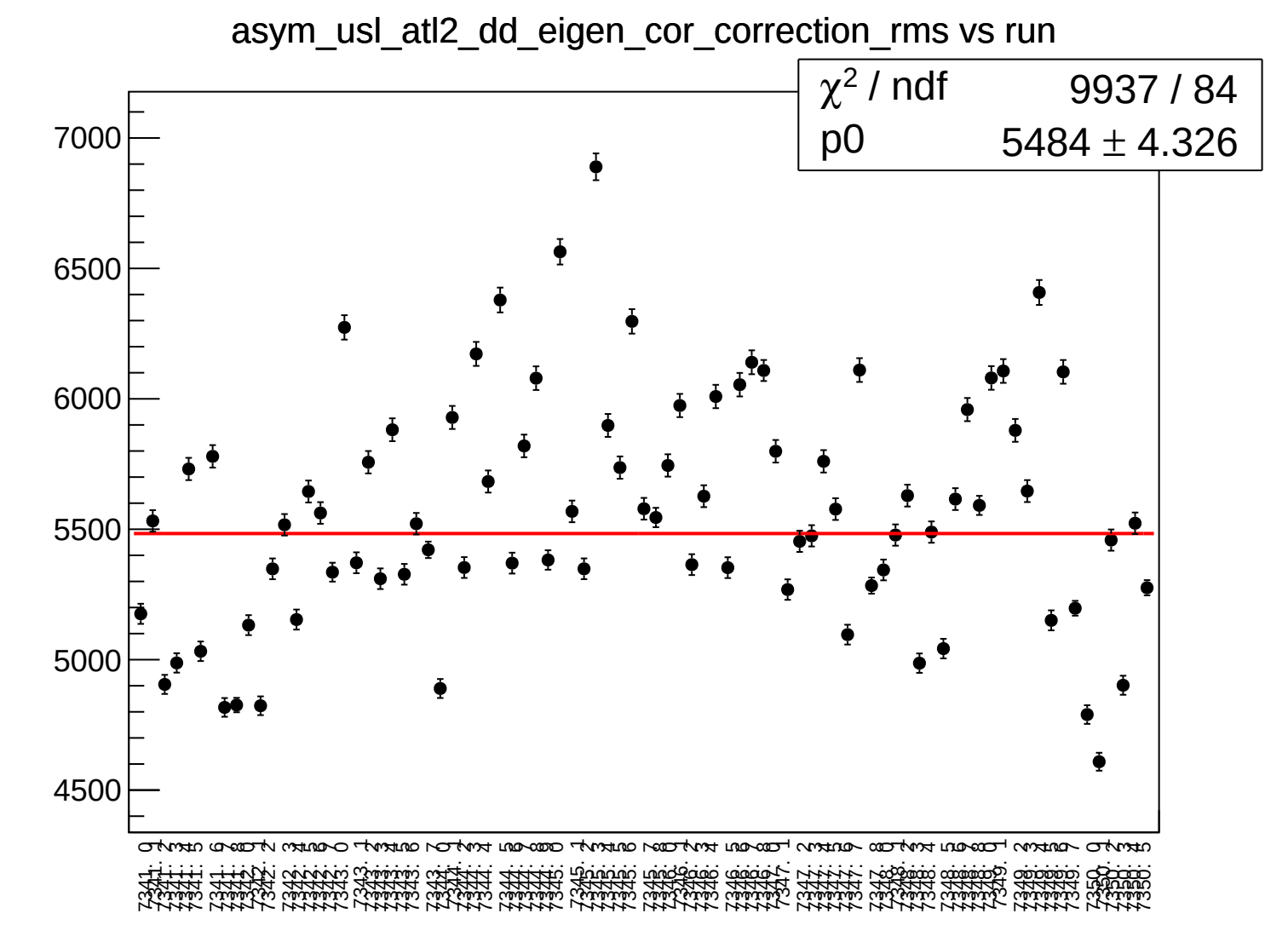

pull1D
Entries 85
Mean −0.02113
Std Dev 0.9216

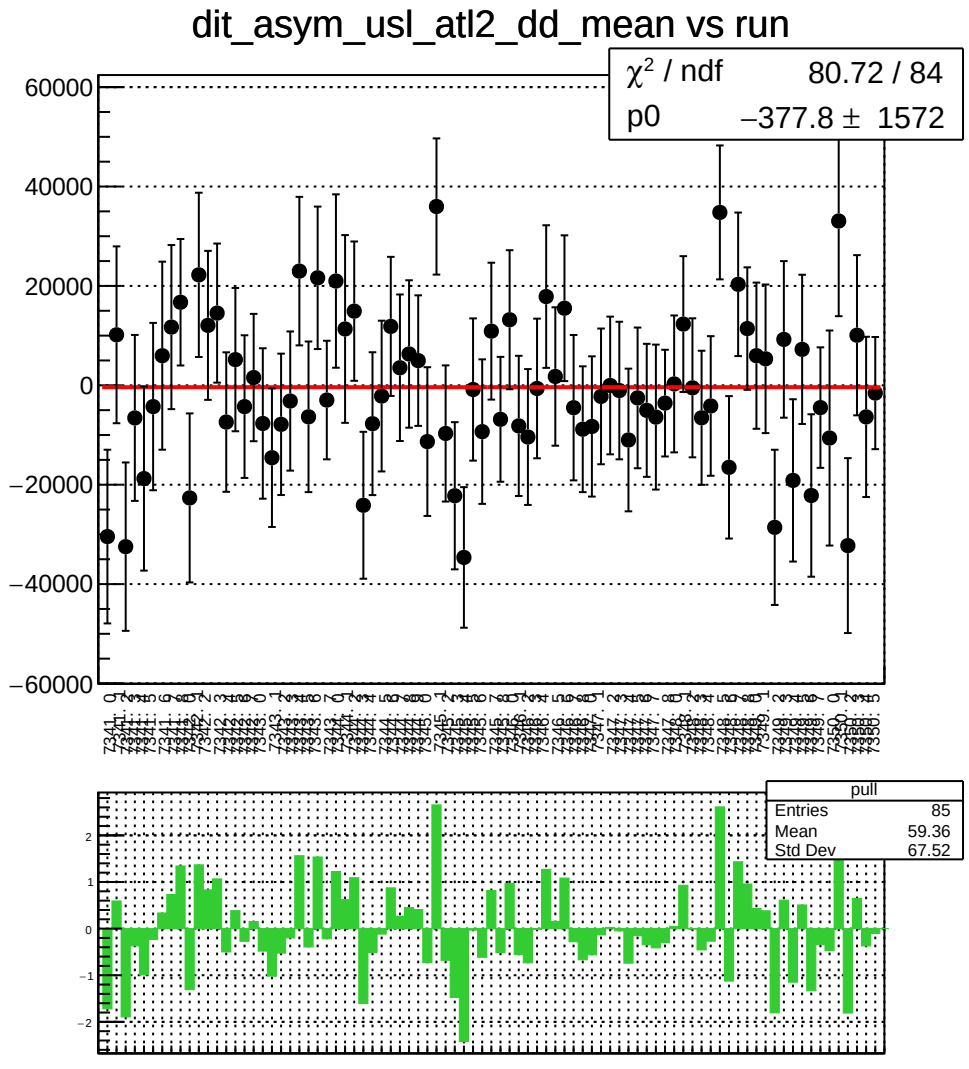

asym_usl_atl2_dd_cor_correction_rms vs run
χ^2 / ndf 9937 / 84
p0 5484 ± 4.326
7000
6500
6000
5500
5000
4500

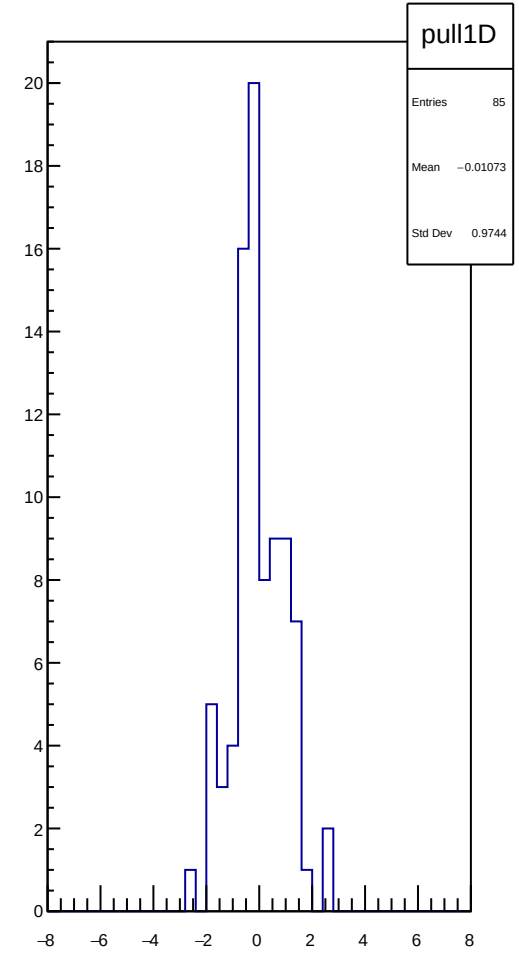

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 82.39 / 84
p0 −818.3 ± 1120
pull
Entries 85
Mean −190.9
Std Dev 0
pull1D
Entries 85
Mean 0.01162
Std Dev 0.9845

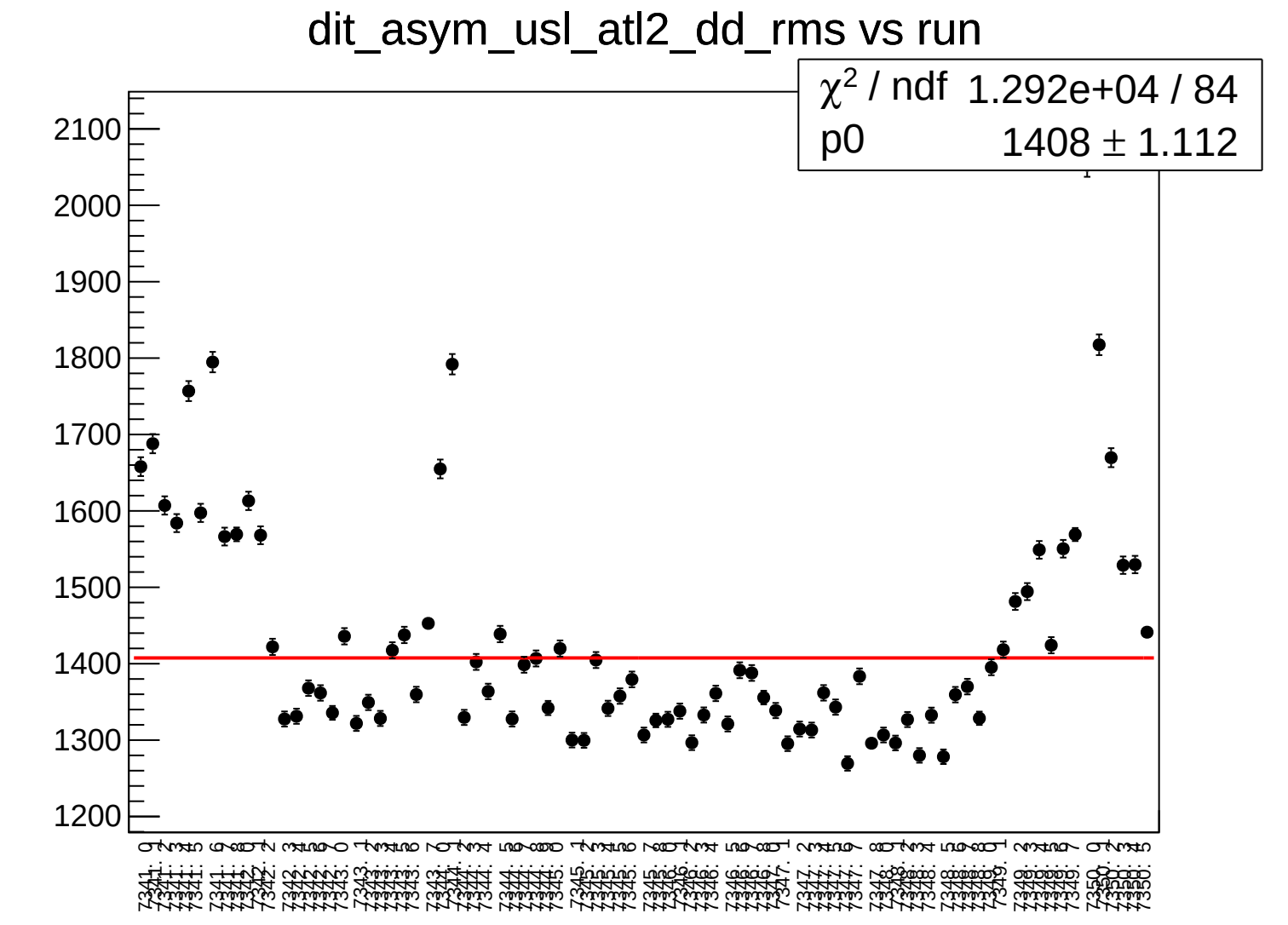

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 6806 / 84
p0 1005 ± 0.7921
1600
1500
1400
1300
1200
1100
1000
900

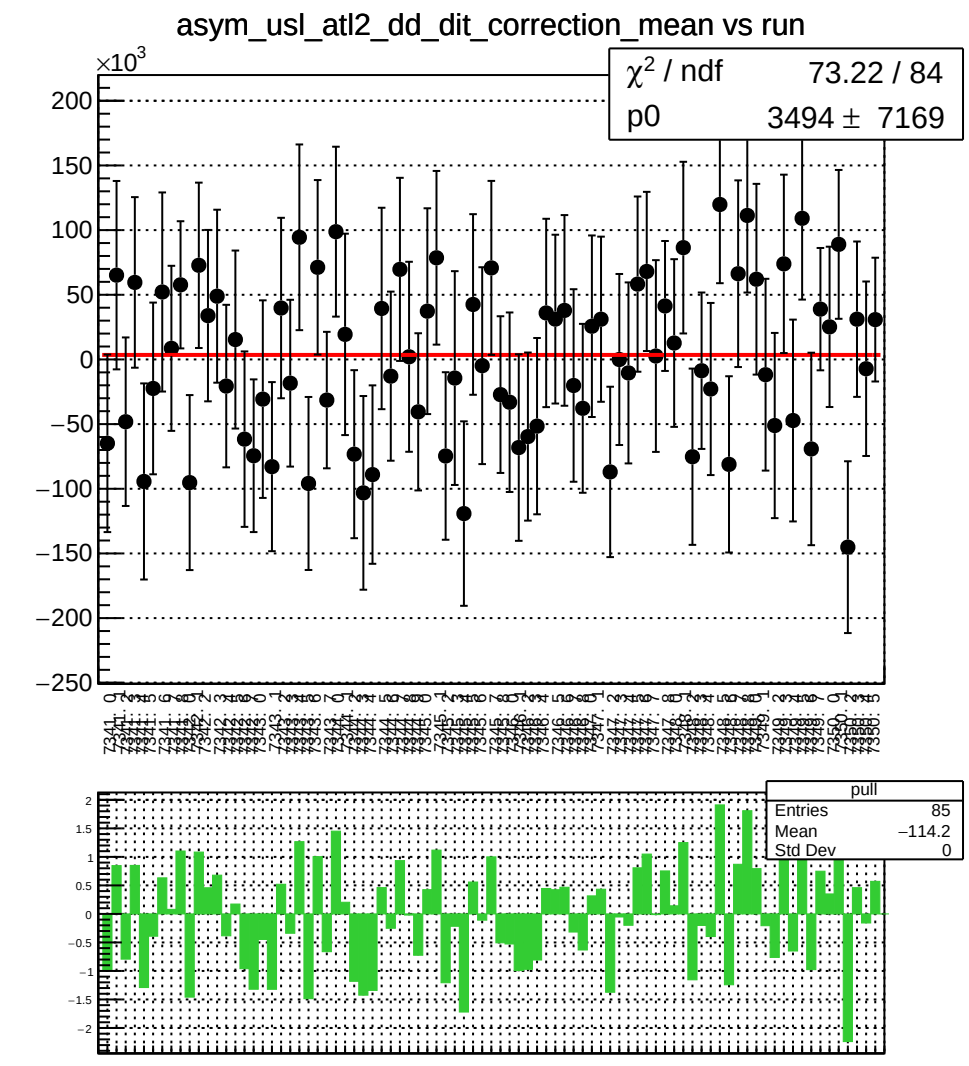

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 72.24 / 84
p0 3224 ± 6118
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean −112.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.02113
Std Dev 0.9216
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

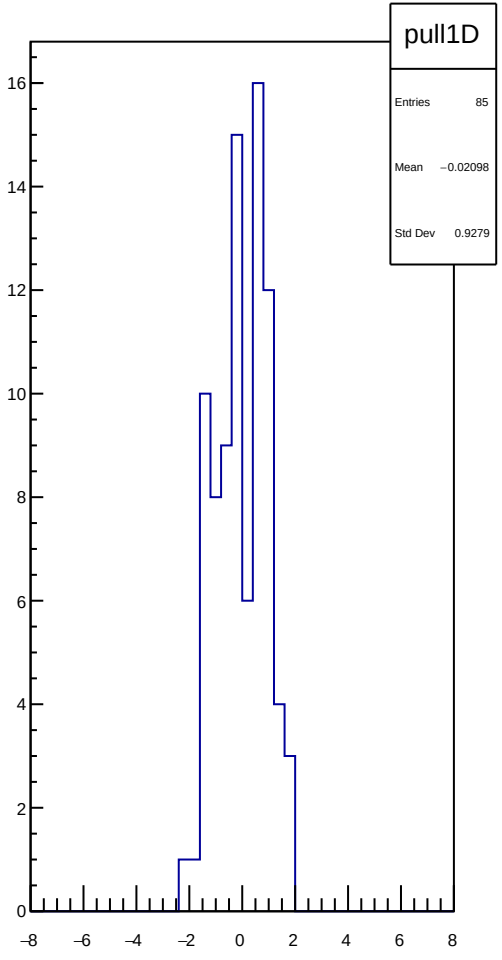

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 9937 / 84
p0 5484 ± 4.326
7000
6500
6000
5500
5000
4500

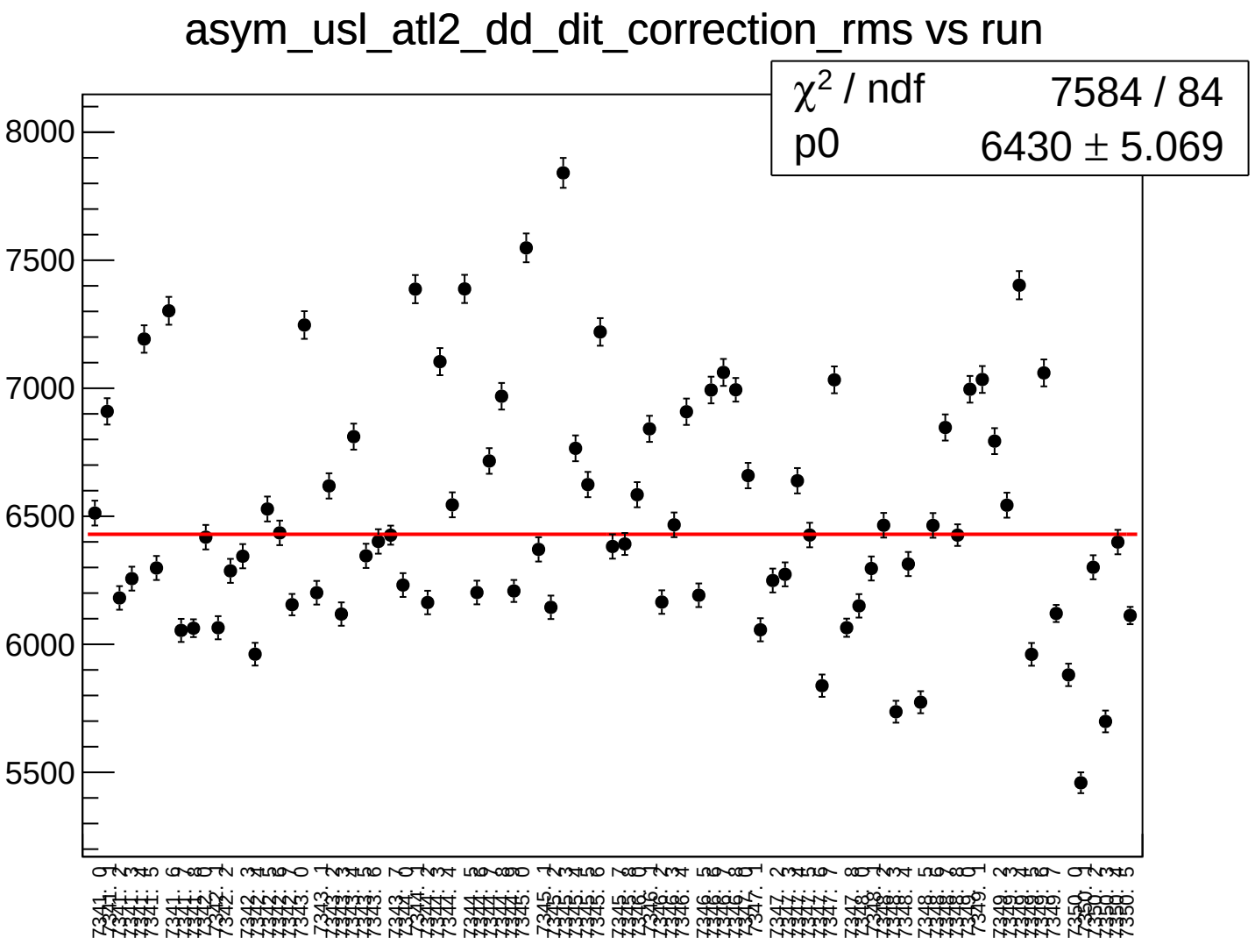

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 80.72 / 84
p0 −377.8 ± 1572
pull
Entries 85
Mean 59.36
Std Dev 67.52

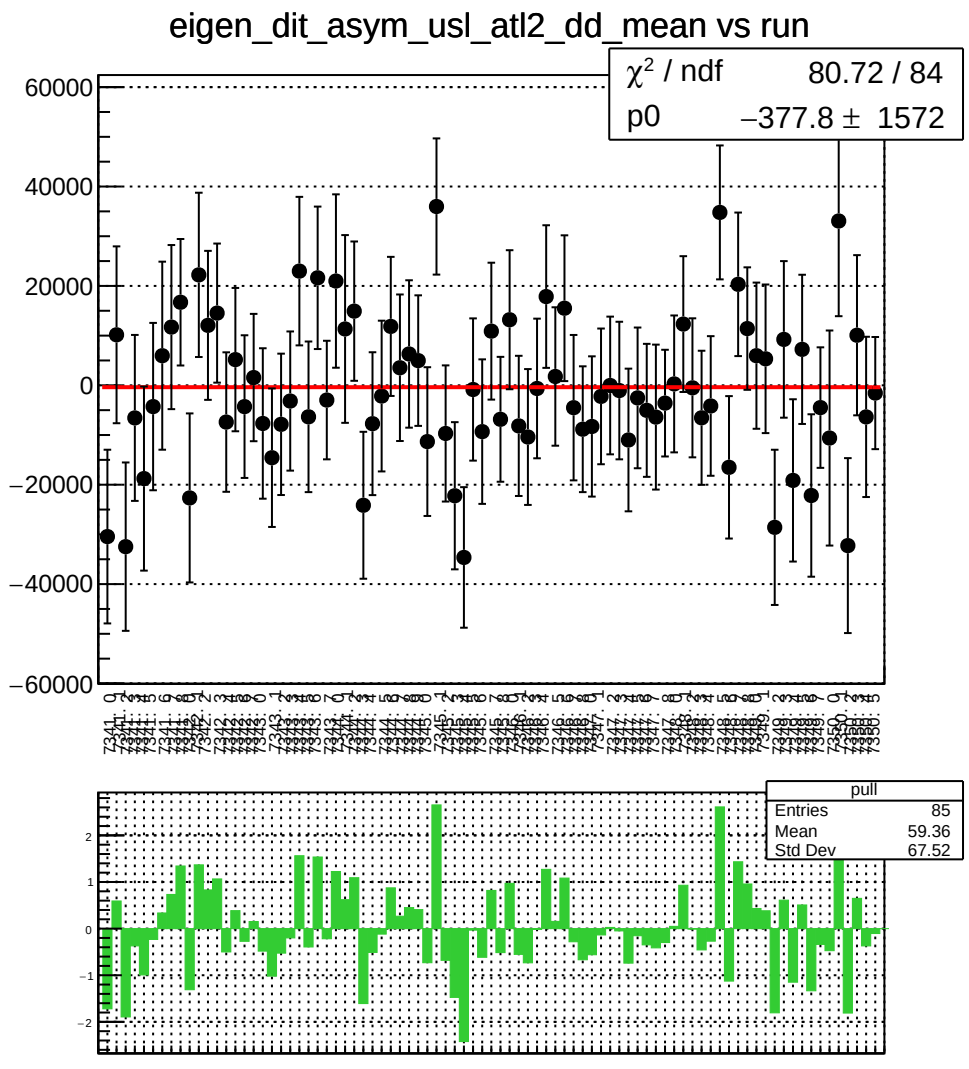

pull1D
Entries 85
Mean −0.01073
Std Dev 0.9744

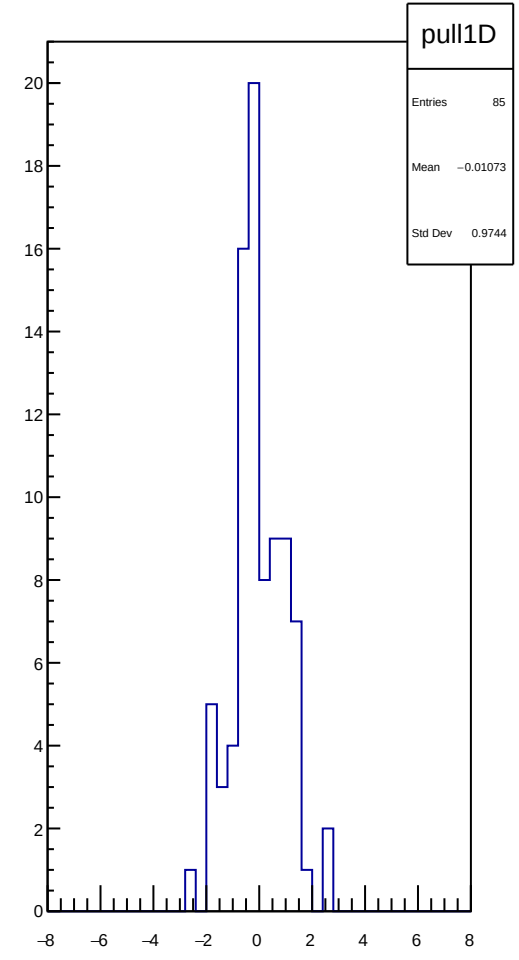

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.292e+04 / 84
p0 1408 ± 1.112
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

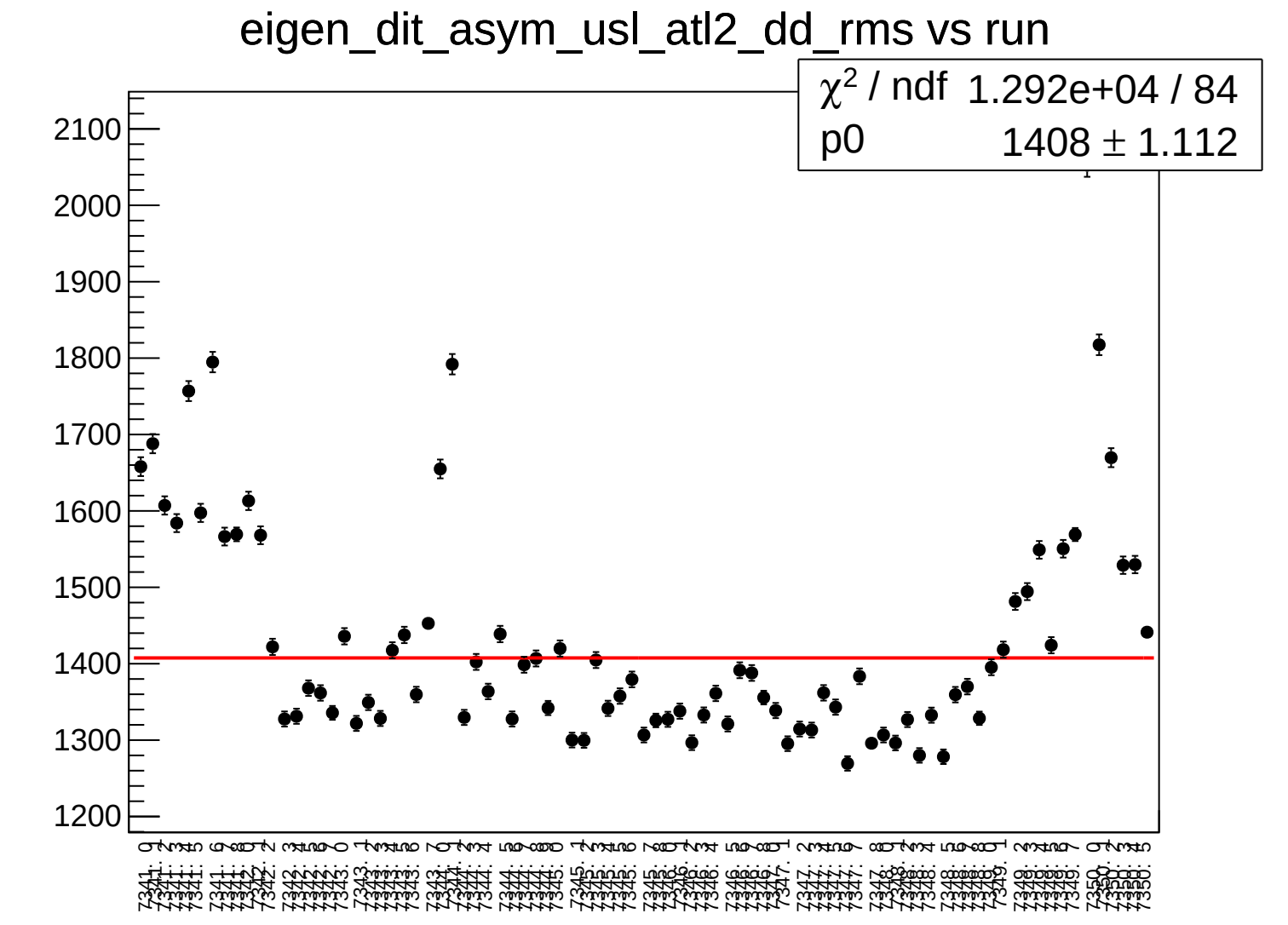

asym_usl_atl2_dd_dit_correction_mean vs run
χ² / ndf 73.22 / 84
p0 3494 ± 7169
×10³
pull
Entries 85
Mean −114.2
Std Dev 0

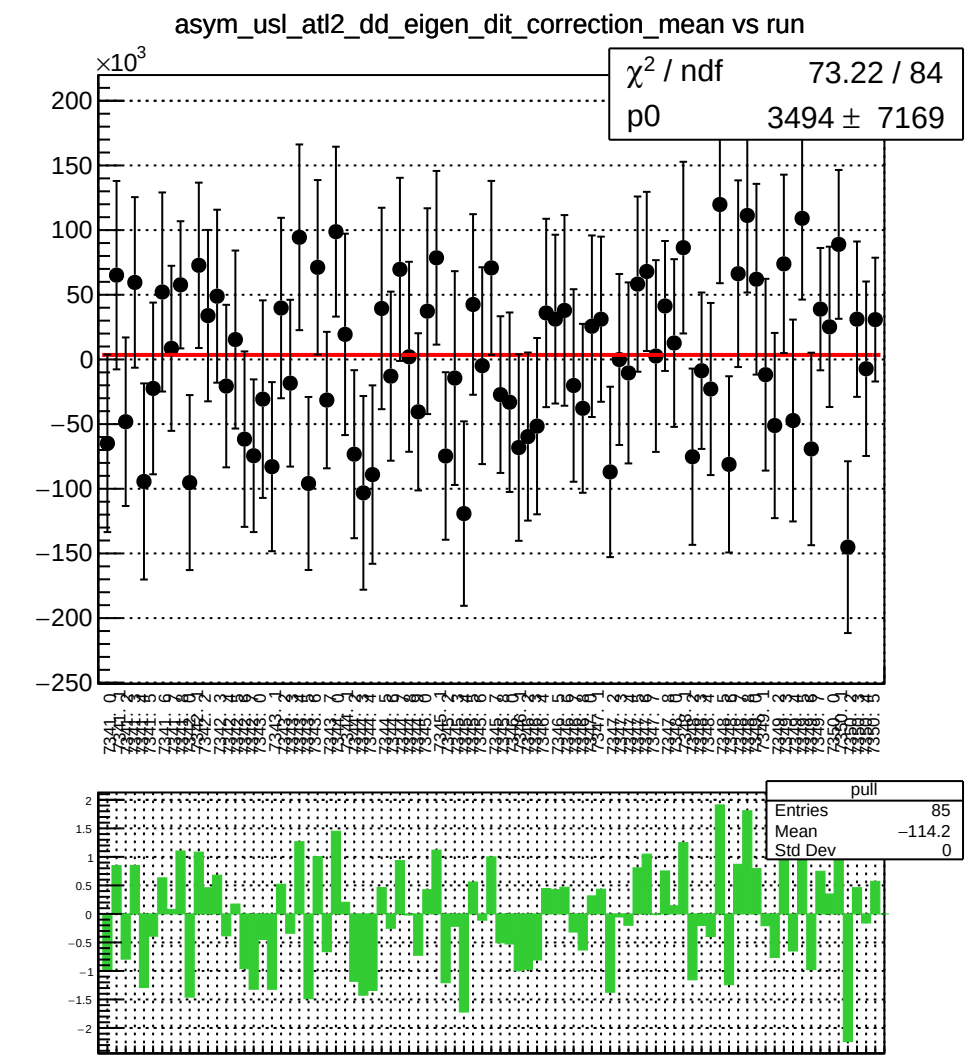

pull1D
Entries 85
Mean −0.02098
Std Dev 0.9279

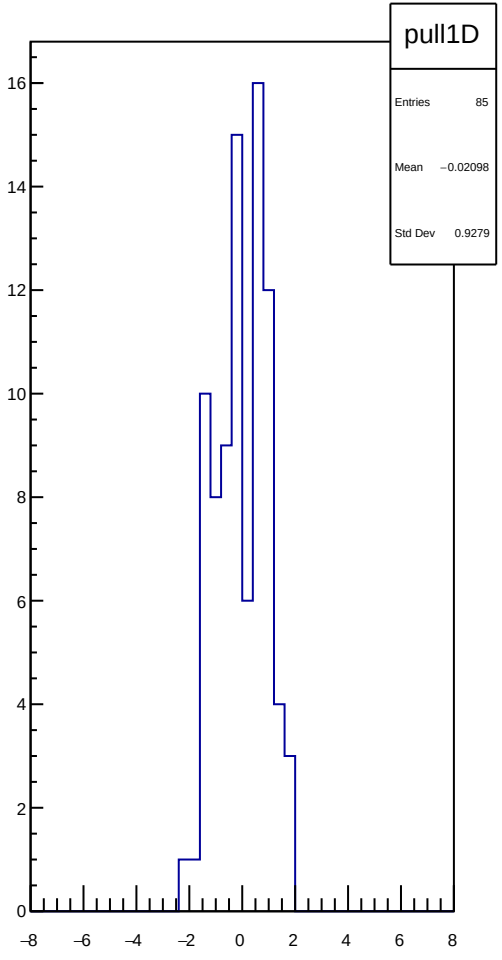

asym_usl_atl2_dd_dit_correction_rms vs run
χ^2 / ndf 7584 / 84
p0 6430 ± 5.069
8000
7500
7000
6500
6000
5500

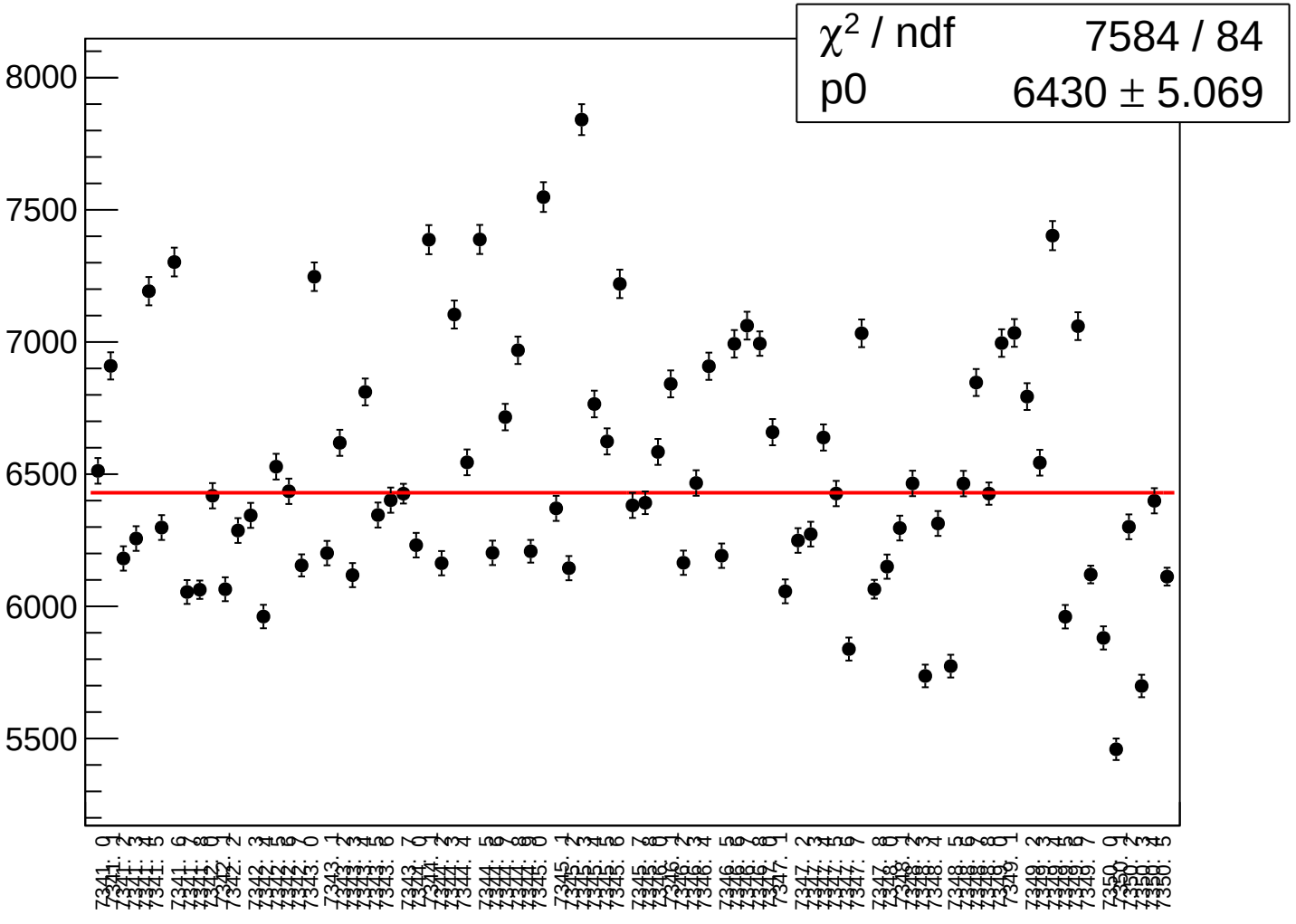

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 80.72 / 84
p0 −377.8 ± 1572
pull
Entries 85
Mean 59.36
Std Dev 67.52

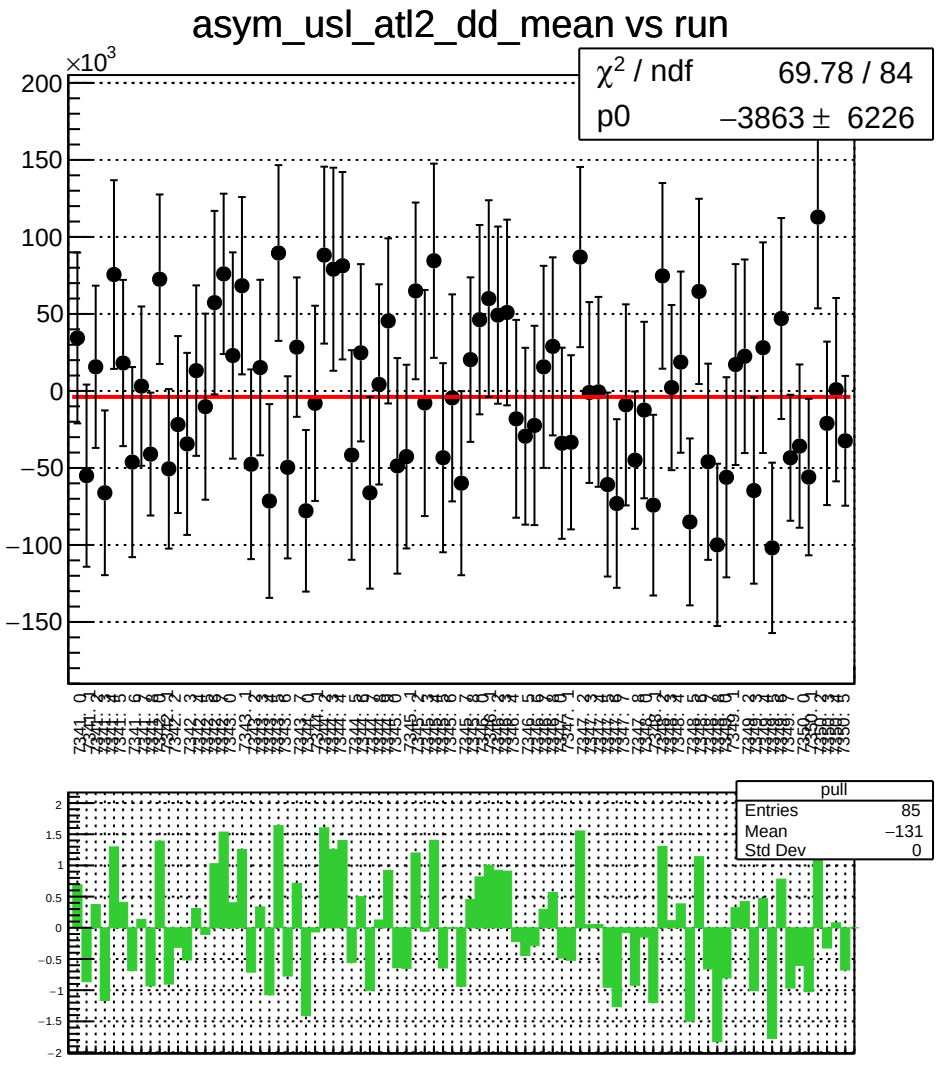

pull1D
Entries 85
Mean −0.01073
Std Dev 0.9744

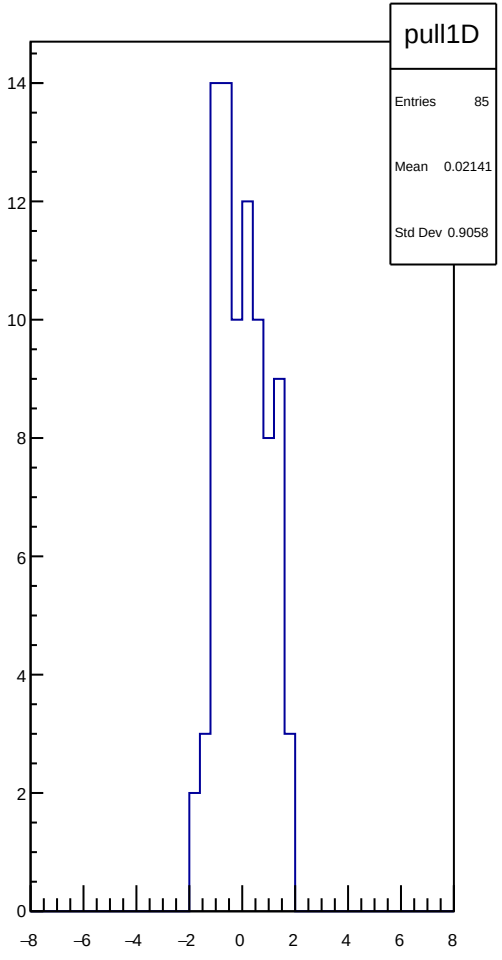

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.292e+04 / 84
p0 1408 ± 1.112
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

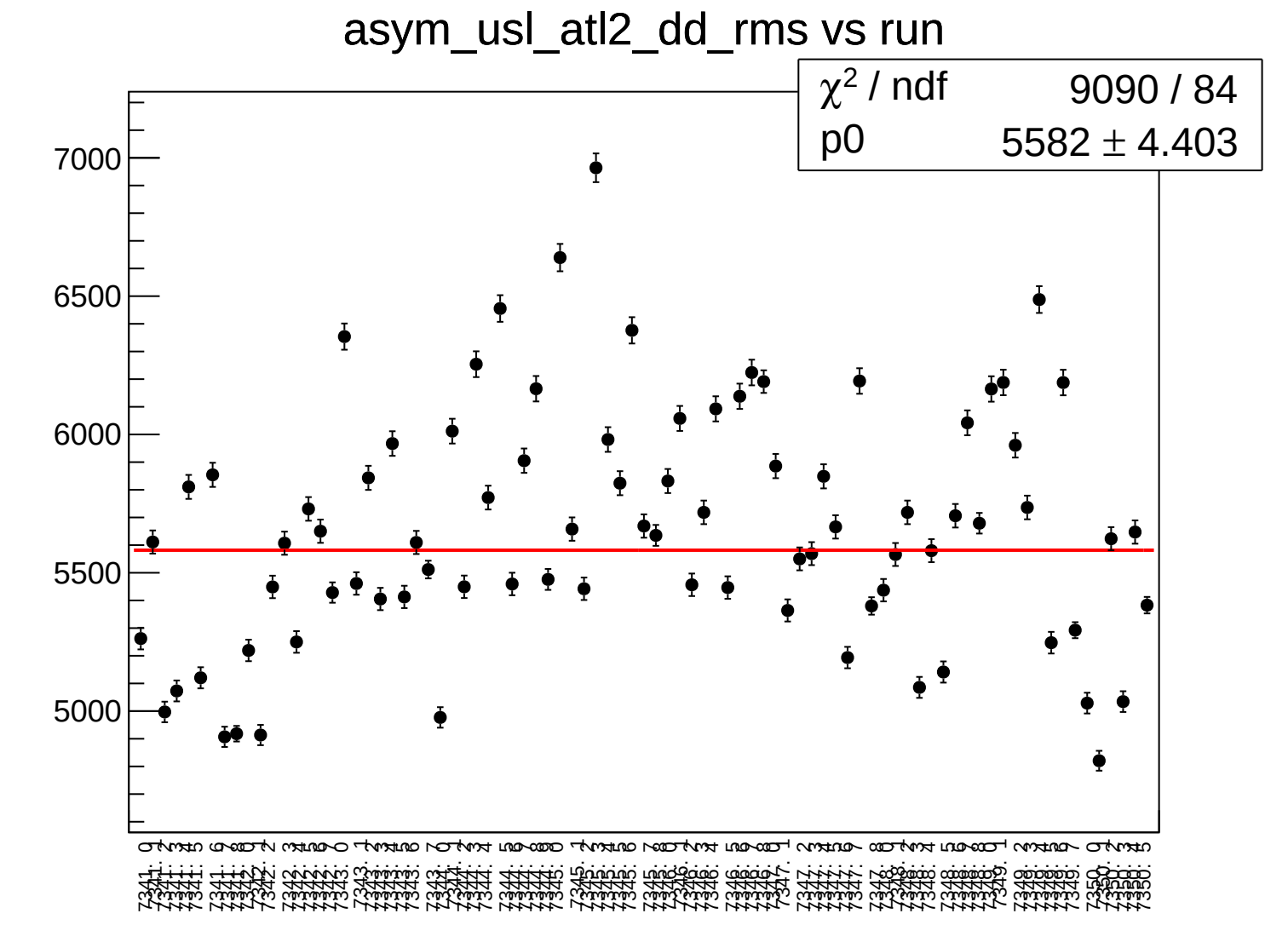

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.22 / 84
p0 3494 ± 7169
pull
Entries 85
Mean −114.2
Std Dev 0

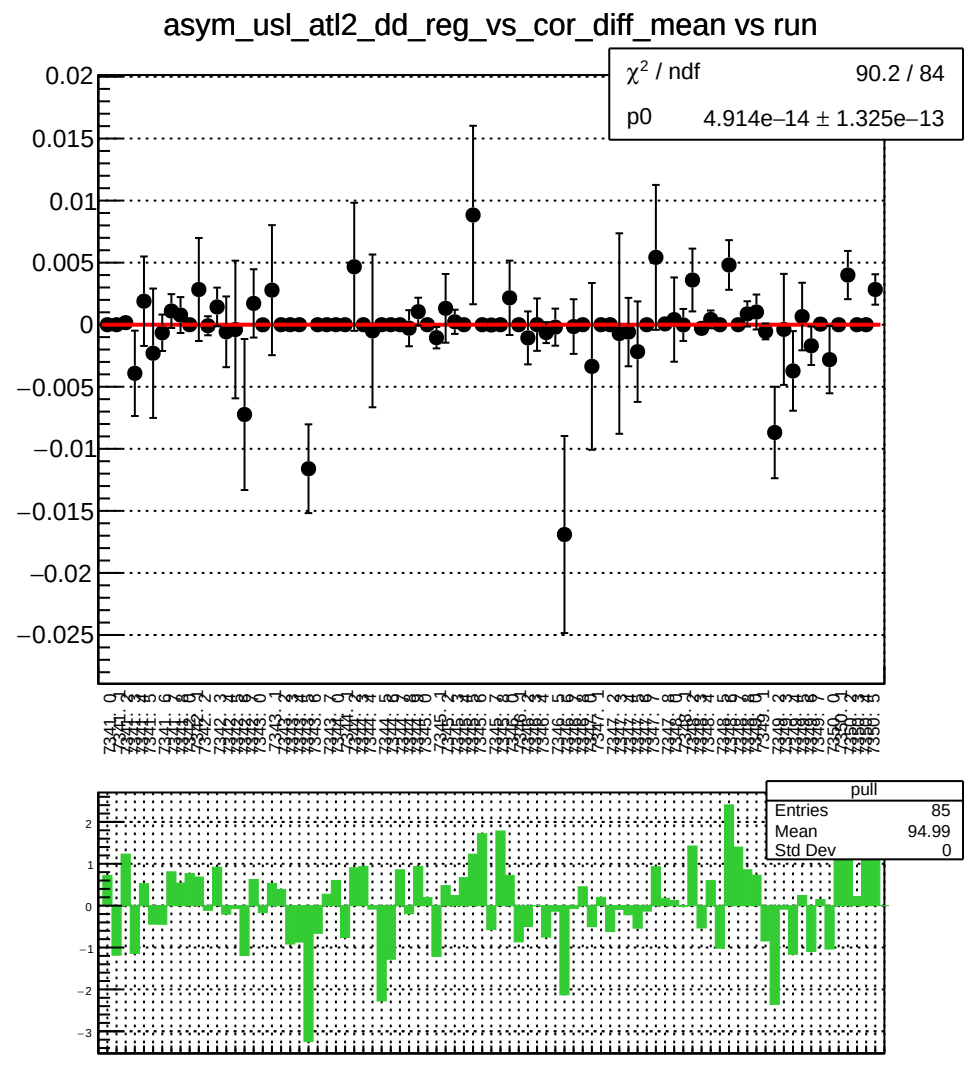

pull1D
Entries 85
Mean −0.02098
Std Dev 0.9279

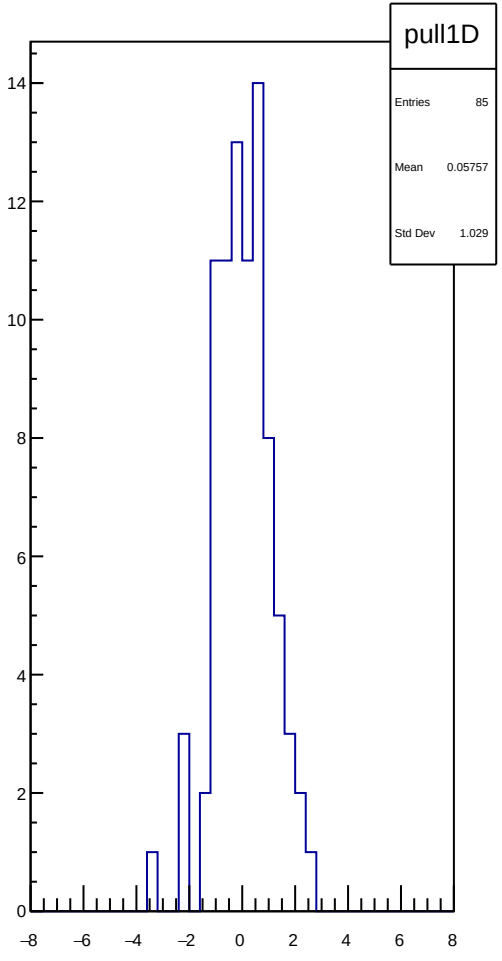

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7584 / 84
p0 6430 ± 5.069
8000
7500
7000
6500
6000
5500

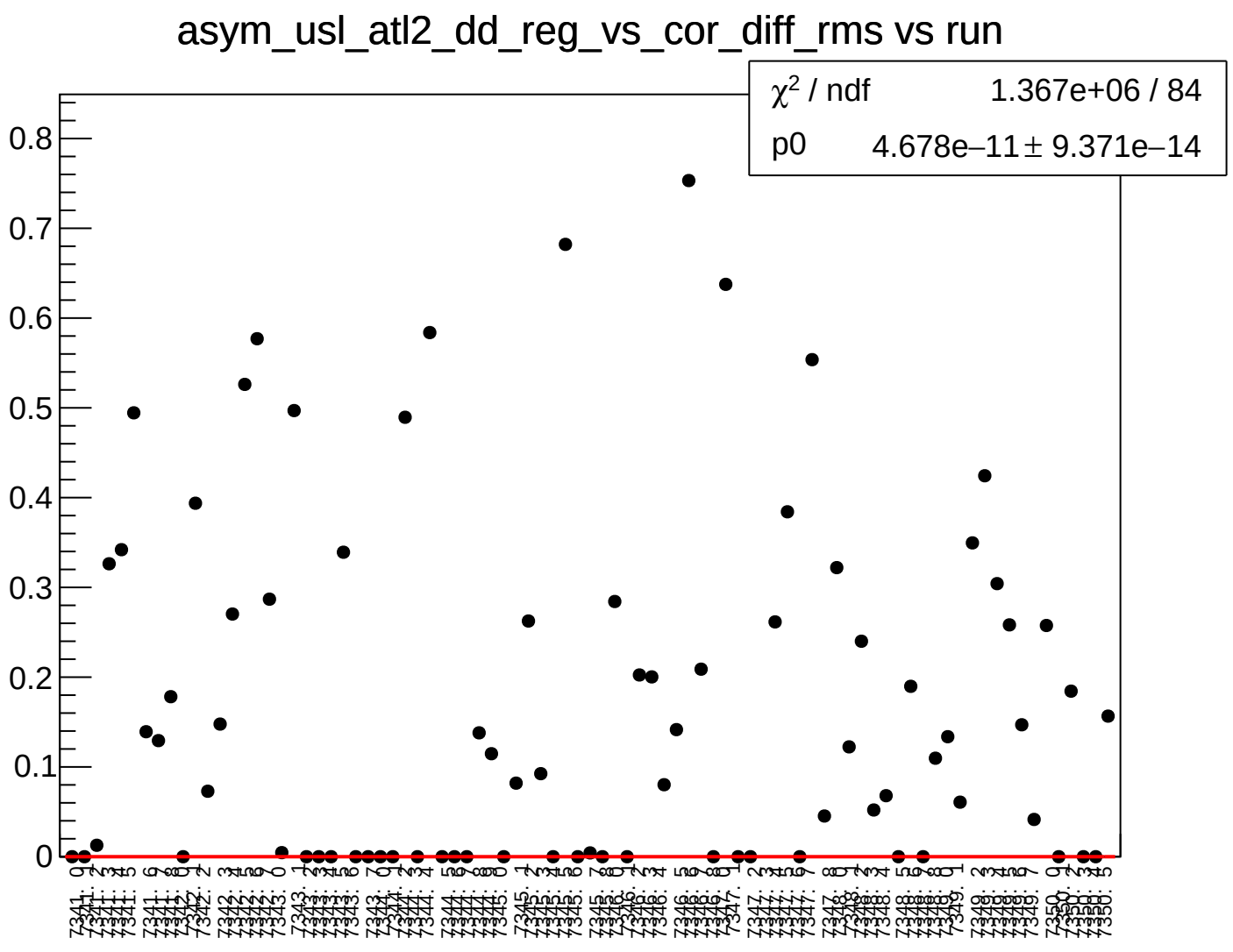

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 69.78 / 84
p0 −3863 ± 6226
pull
Entries 85
Mean −131
Std Dev 0

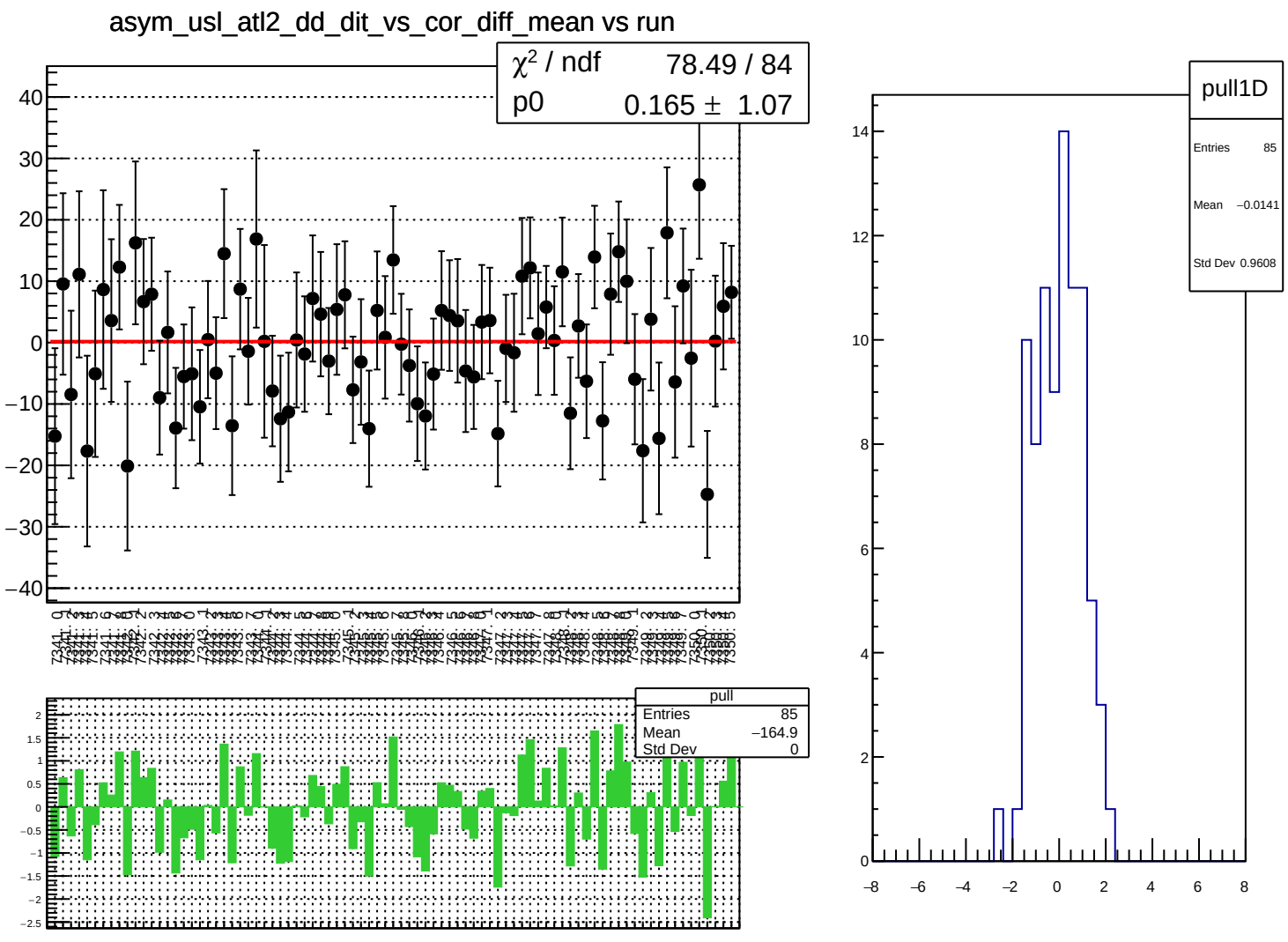

pull1D
Entries 85
Mean 0.02141
Std Dev 0.9058

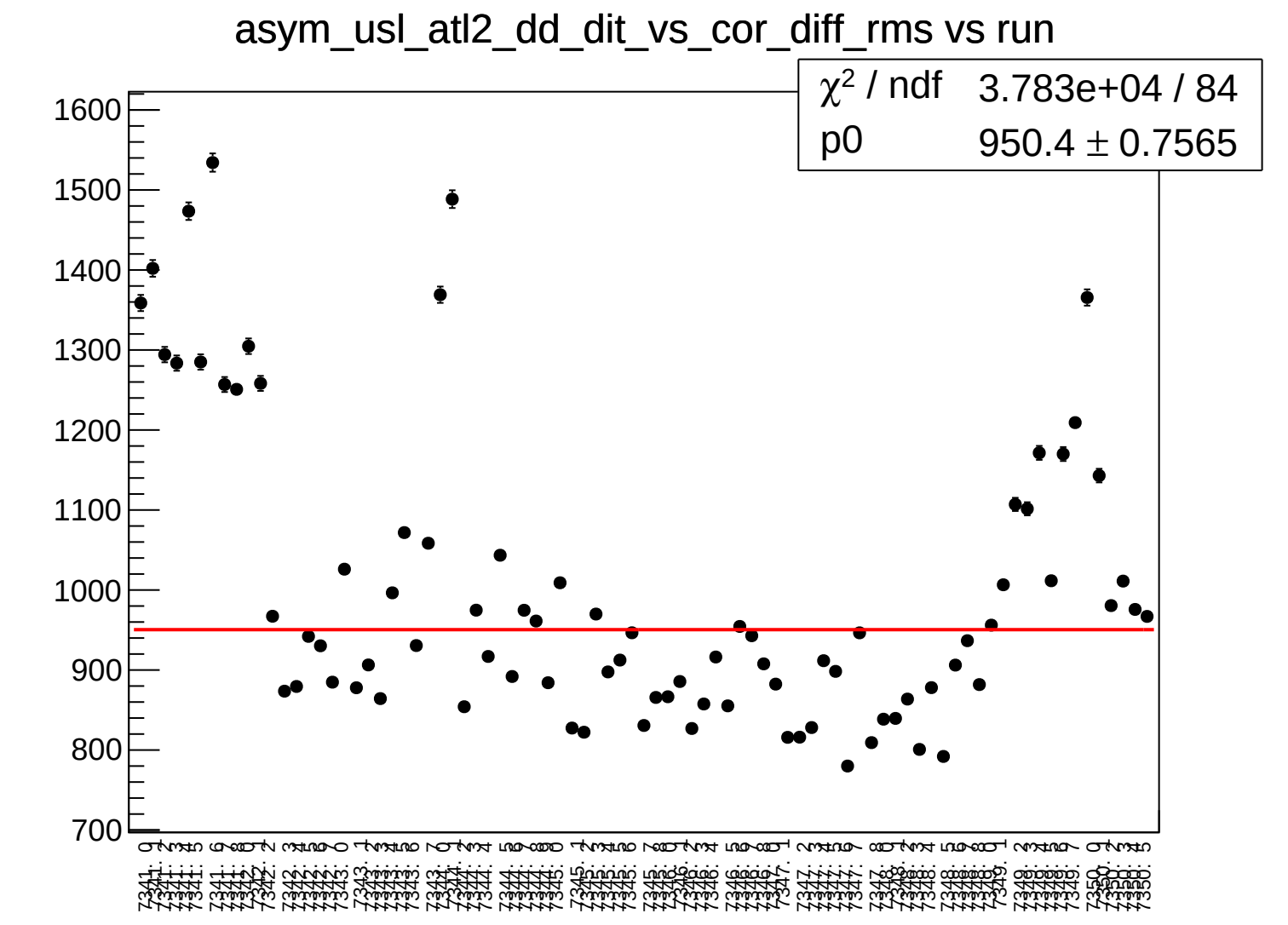

asym_usl_atl2_dd_rms vs run
χ² / ndf 9090 / 84
p0 5582 ± 4.403
7000
6500
6000
5500
5000

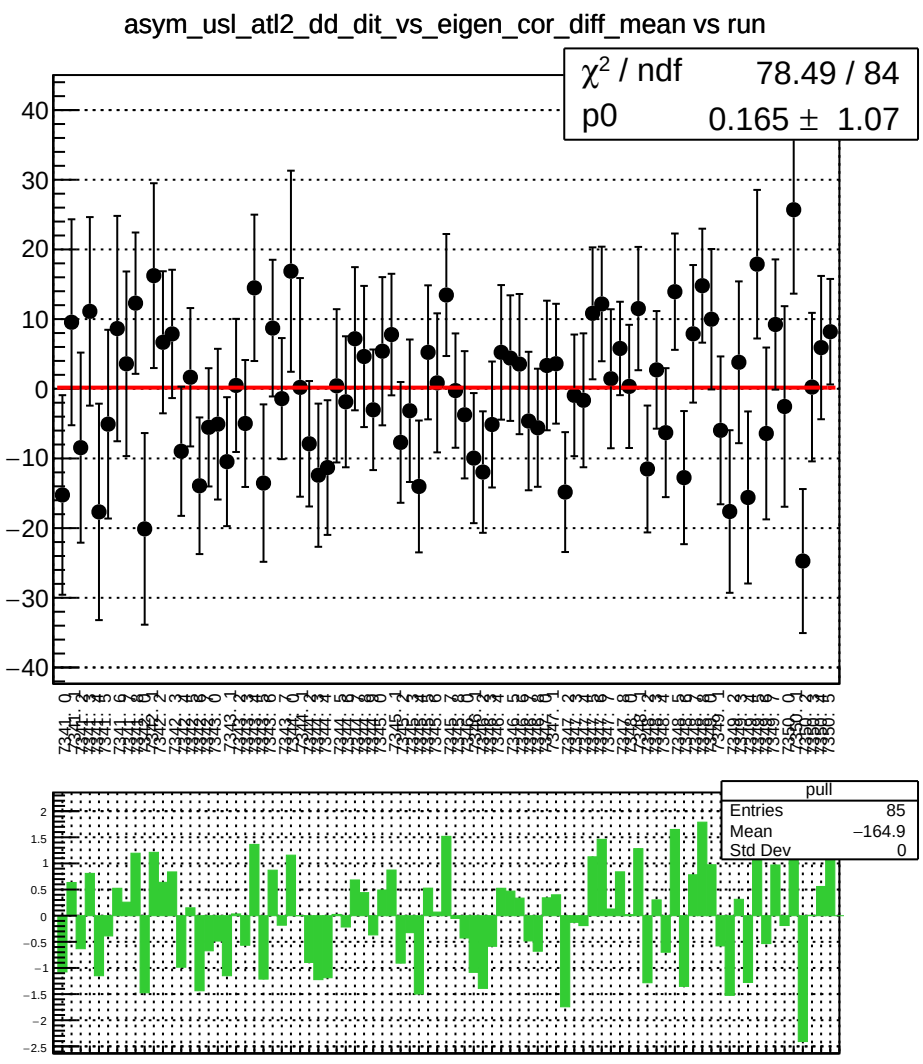

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.2 / 84
p0 4.914e−14 ± 1.325e−13
pull
Entries 85
Mean 94.99
Std Dev 0

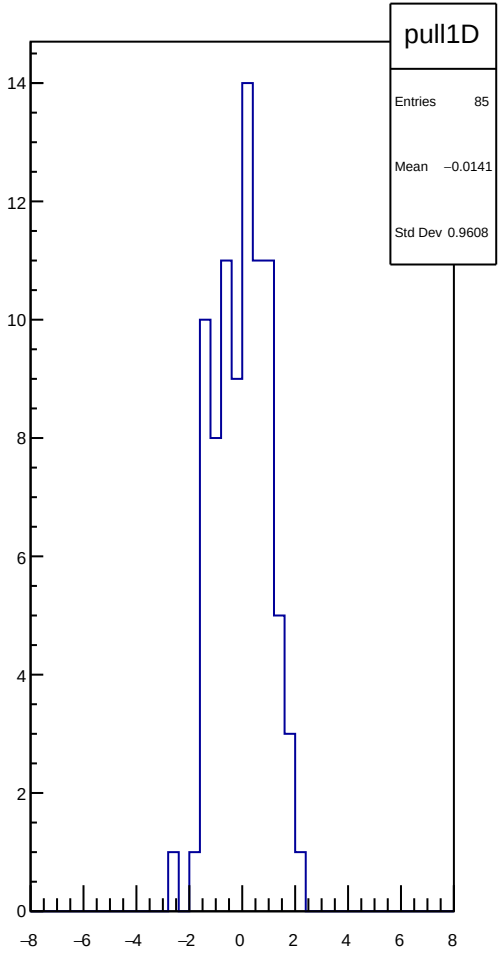

pull1D
Entries 85
Mean 0.05757
Std Dev 1.029

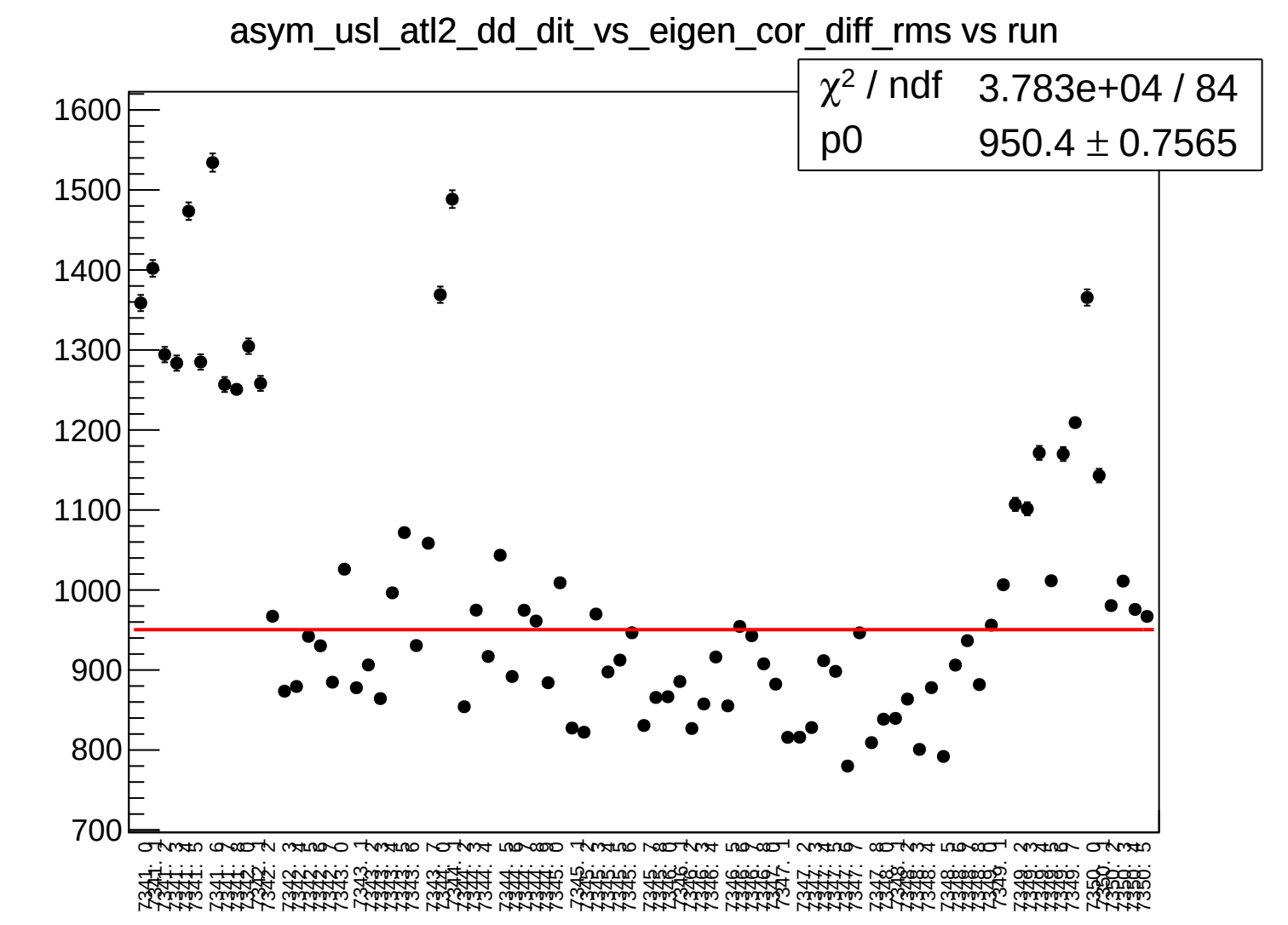

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.367e+06 / 84
p0 4.678e−11 ± 9.371e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

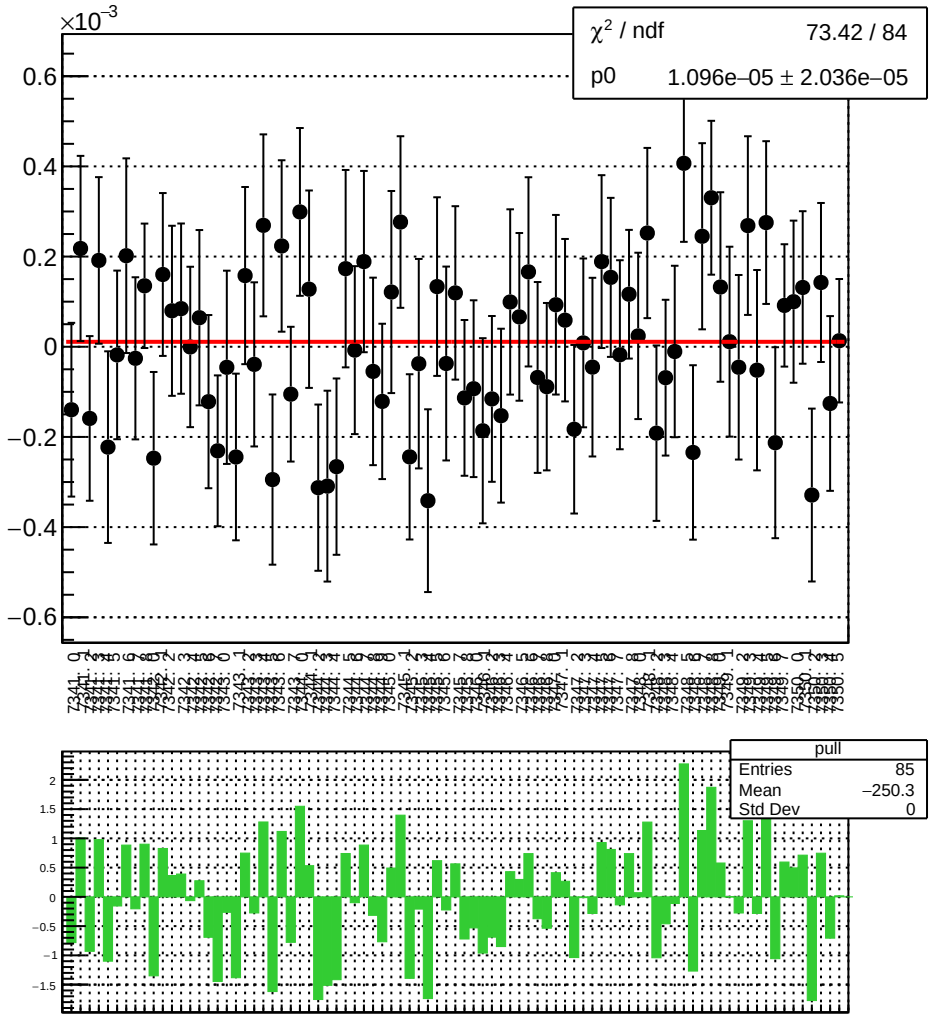

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.49 / 84
p0 0.165 ± 1.07
pull
Entries 85
Mean −164.9
Std Dev 0
pull1D
Entries 85
Mean −0.0141
Std Dev 0.9608

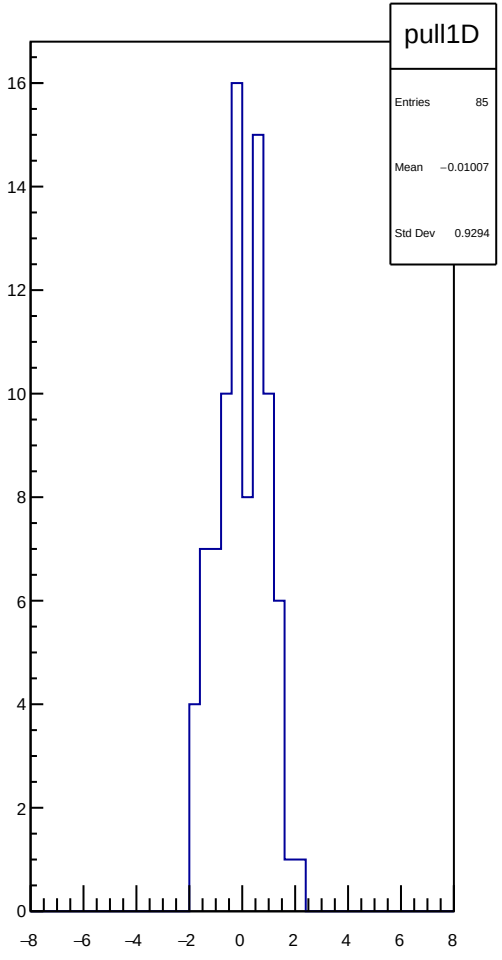

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.783e+04 / 84
p0 950.4 ± 0.7565
1600
1500
1400
1300
1200
1100
1000
900
800
700

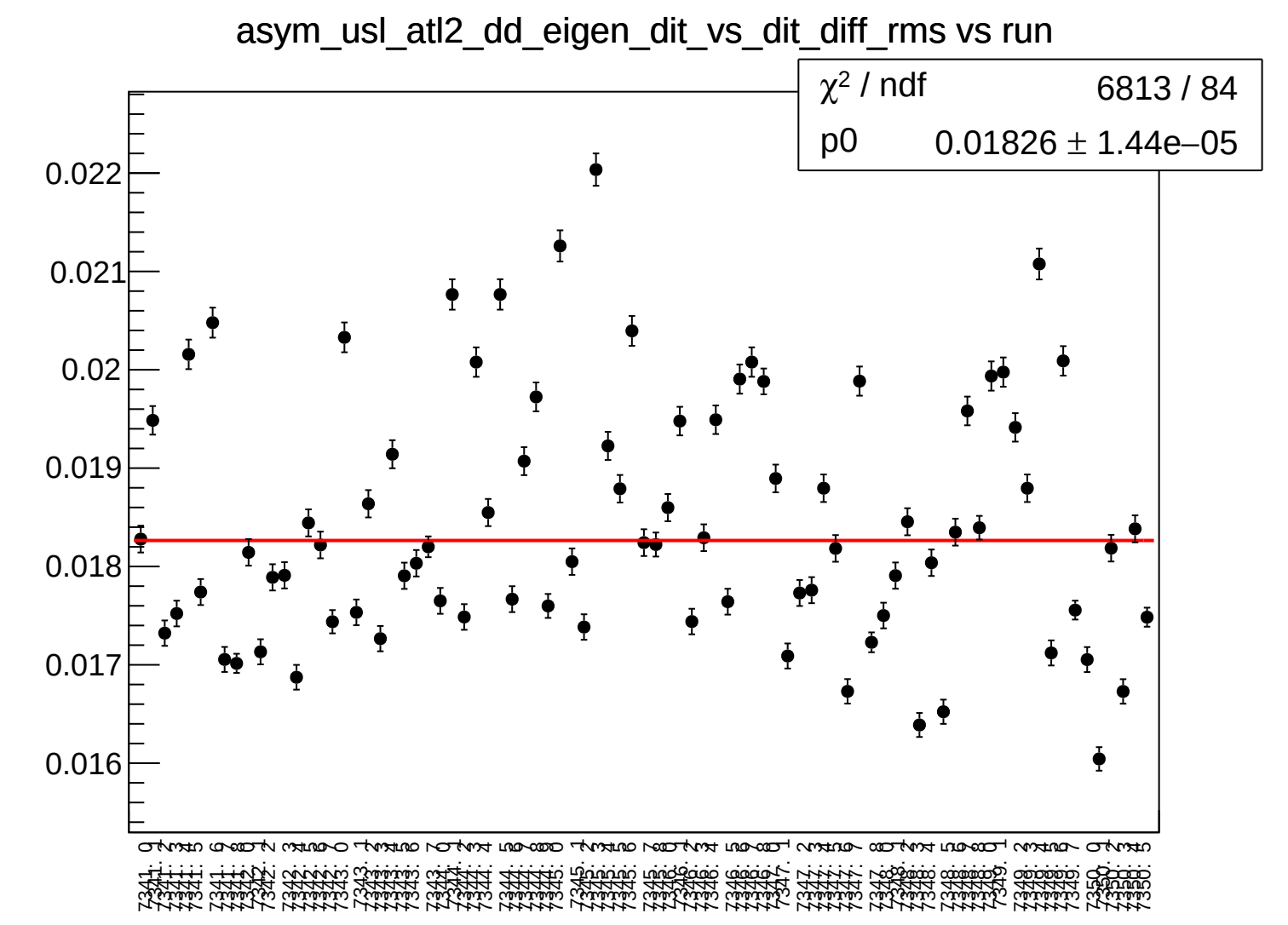

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.49 / 84
p0 0.165 ± 1.07
pull
Entries 85
Mean −164.9
Std Dev 0

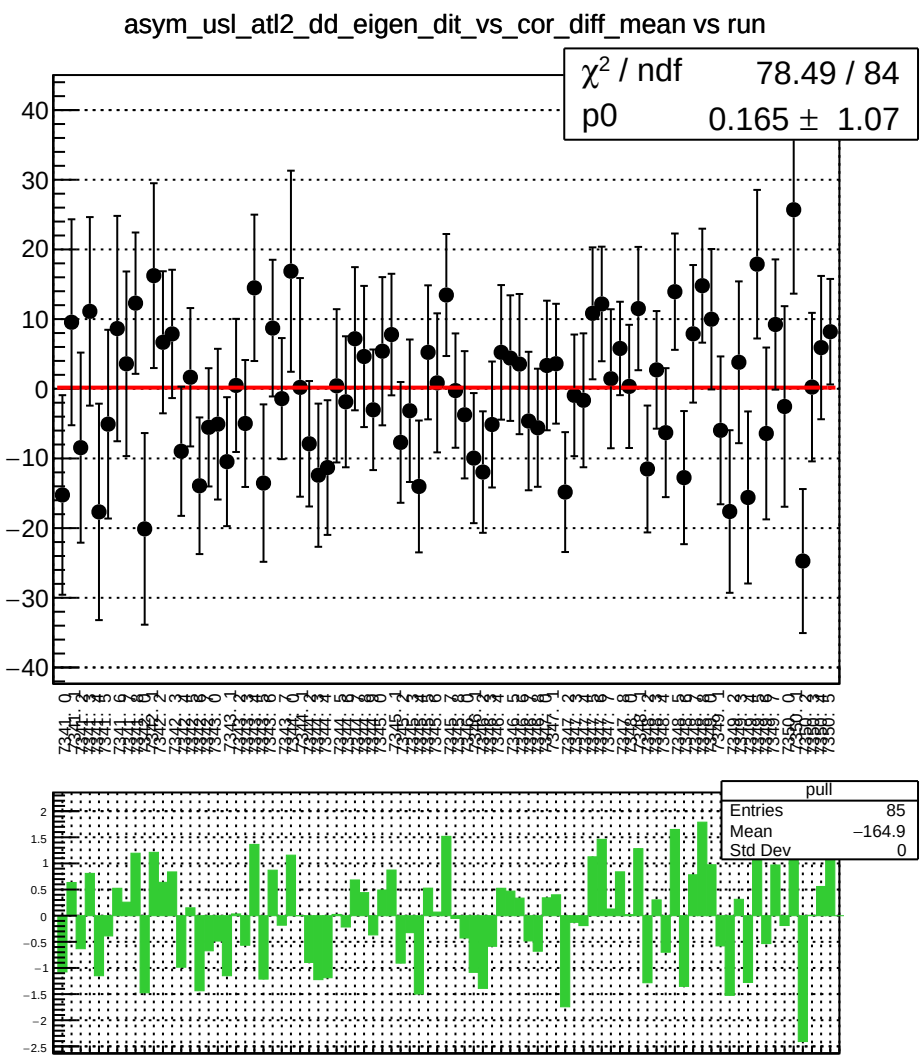

pull1D
Entries 85
Mean −0.0141
Std Dev 0.9608

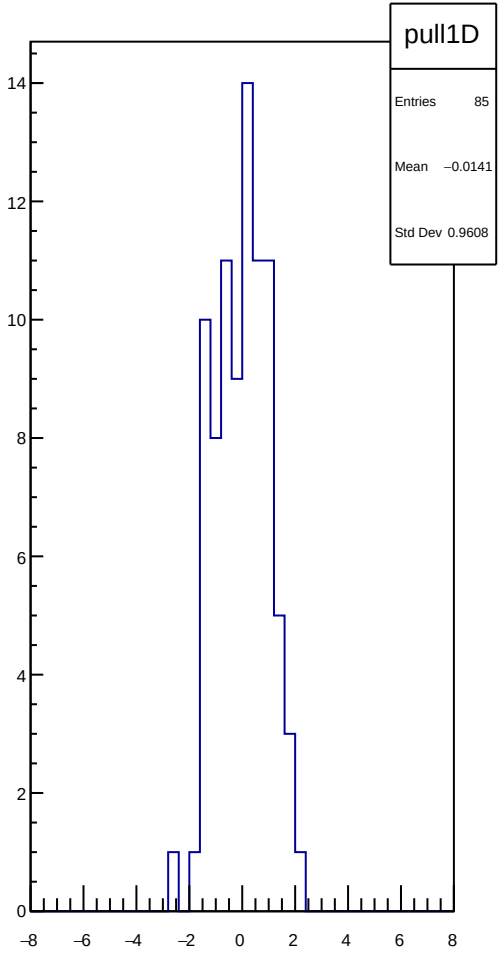

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.783e+04 / 84
p0 950.4 ± 0.7565
1600
1500
1400
1300
1200
1100
1000
900
800
700

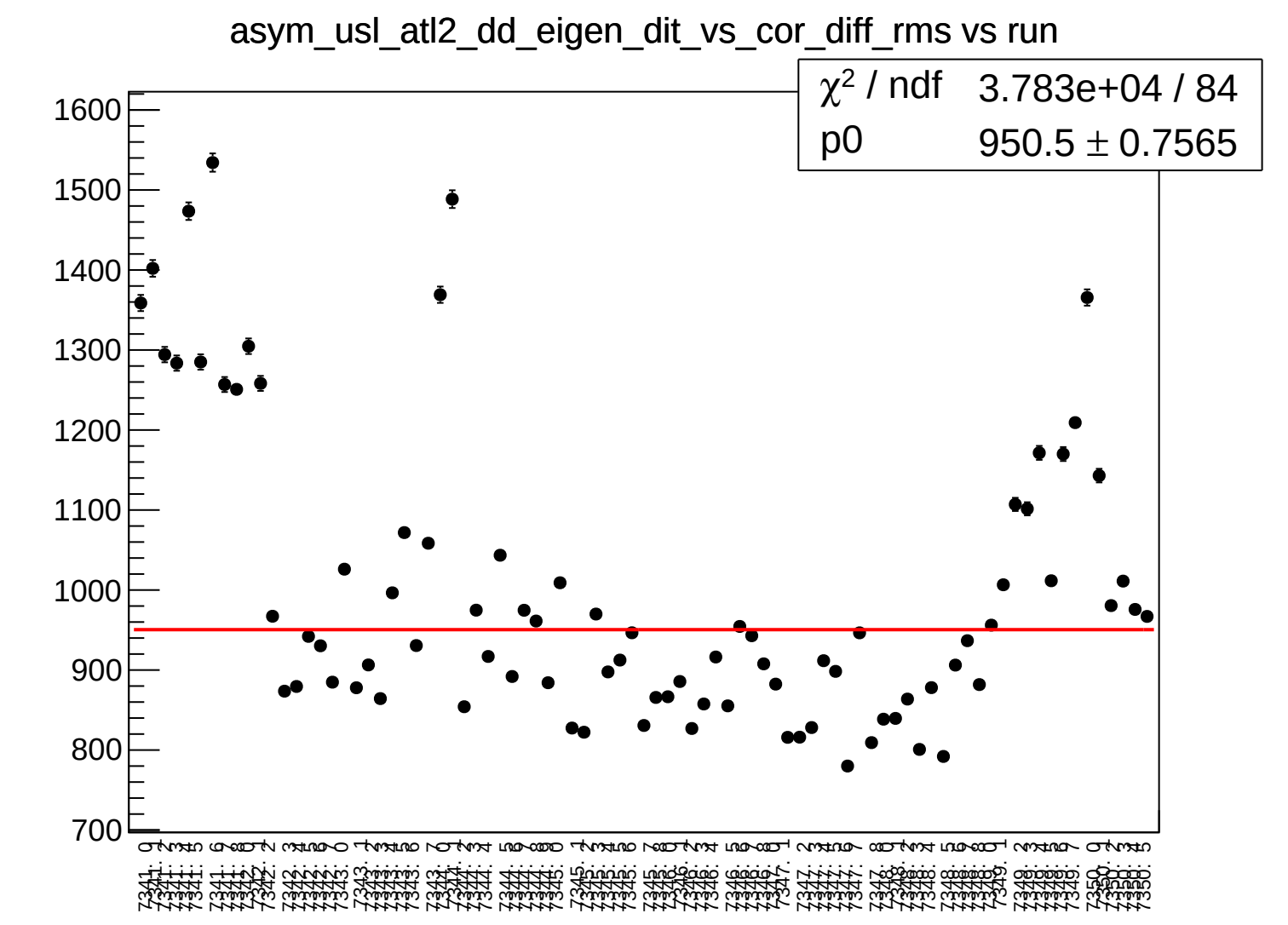

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.42 / 84
p0 1.096e−05 ± 2.036e−05
pull
Entries 85
Mean −250.3
Std Dev 0

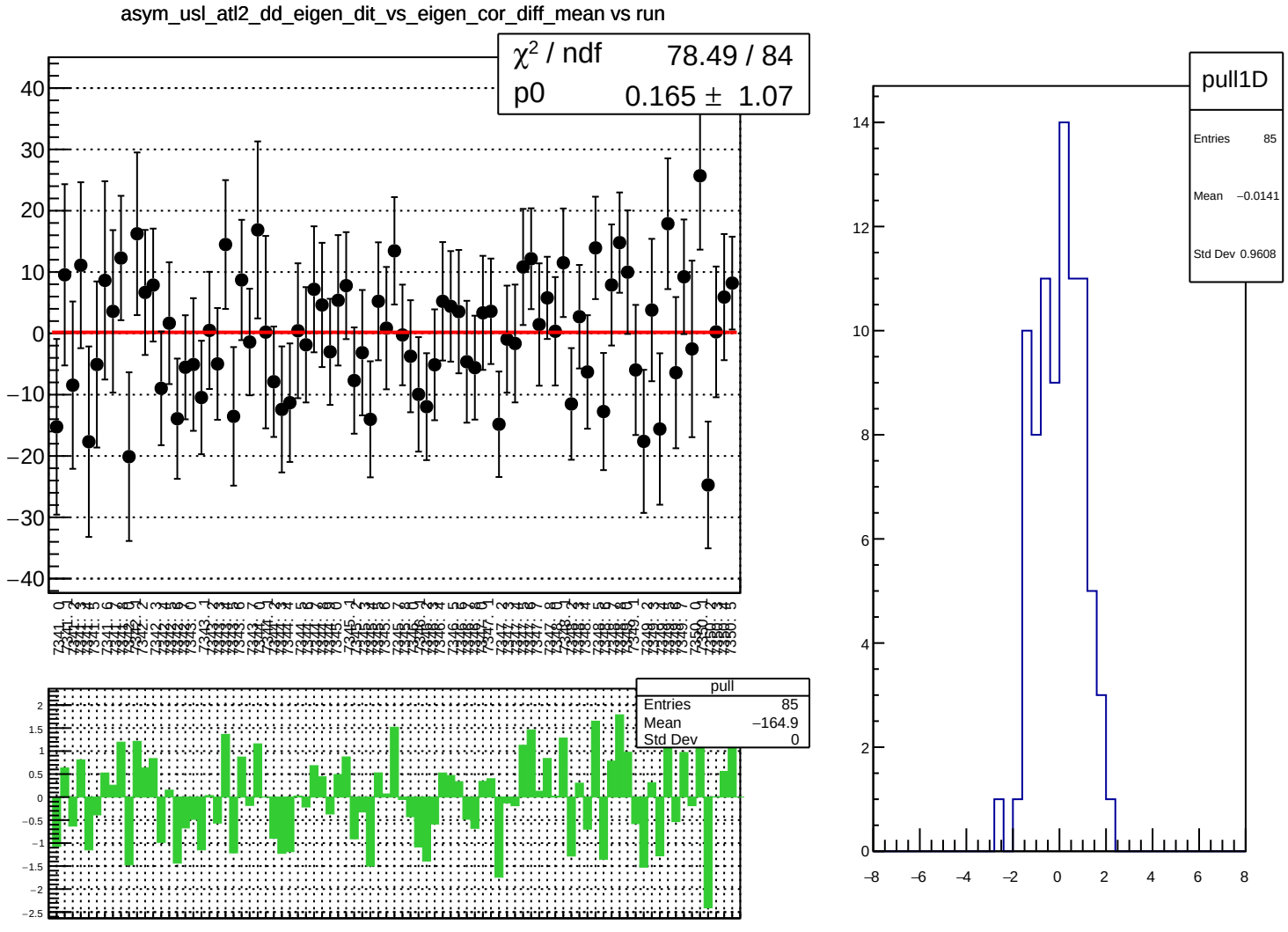

pull1D
Entries 85
Mean −0.01007
Std Dev 0.9294

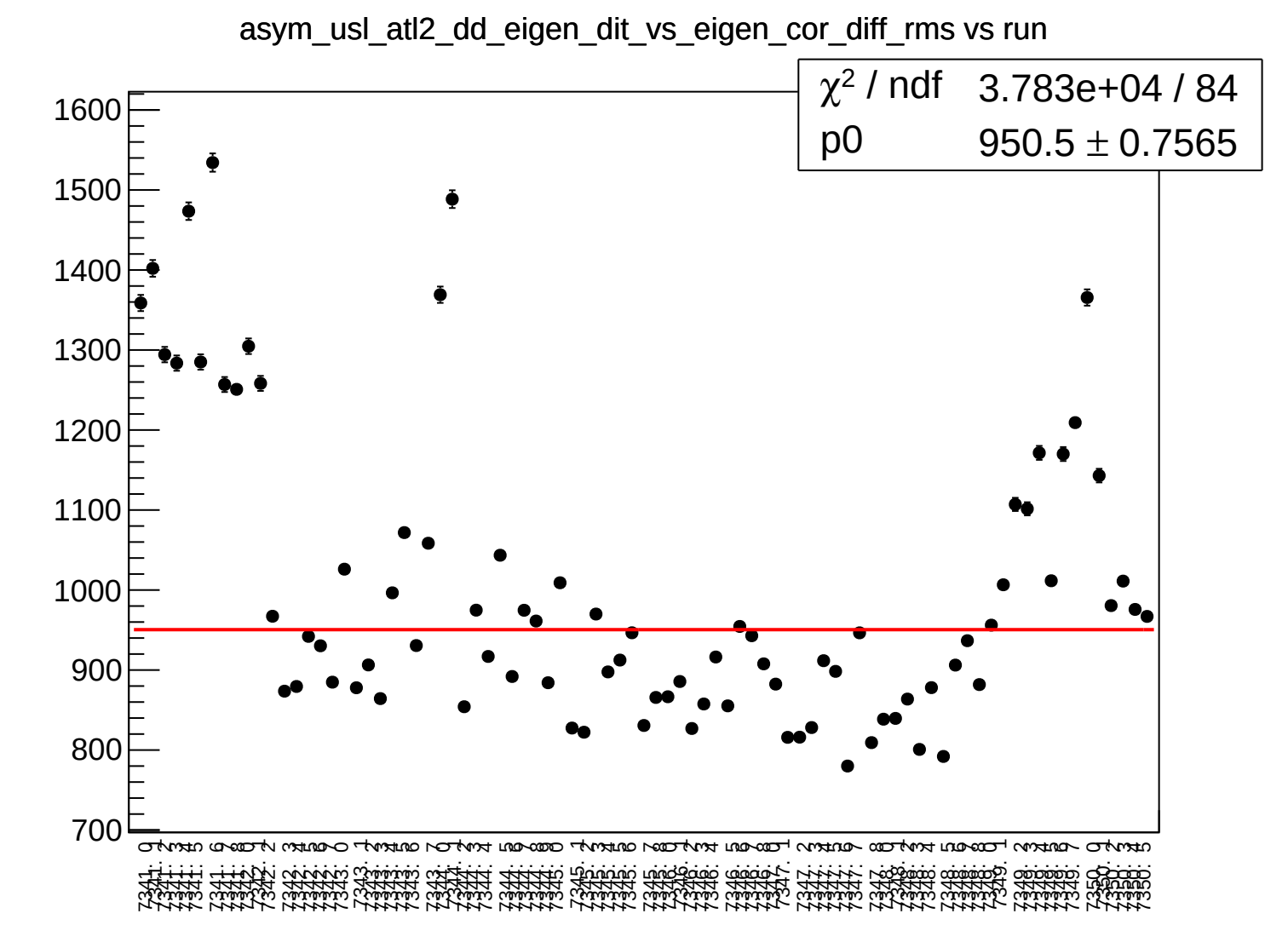

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6813 / 84
p0 0.01826 ± 1.44e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016

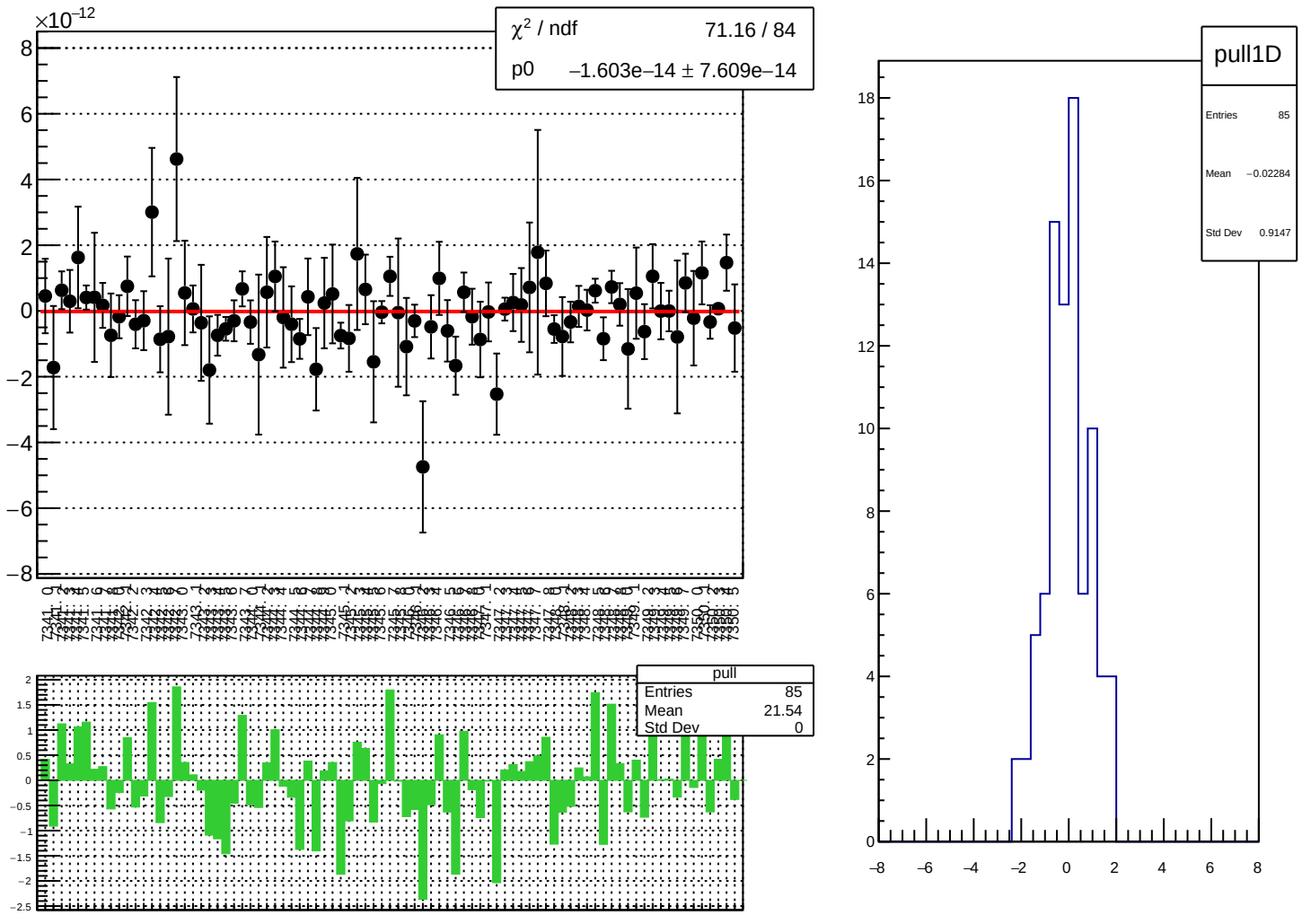

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.49 / 84
p0 0.165 ± 1.07
pull
Entries 85
Mean −164.9
Std Dev 0

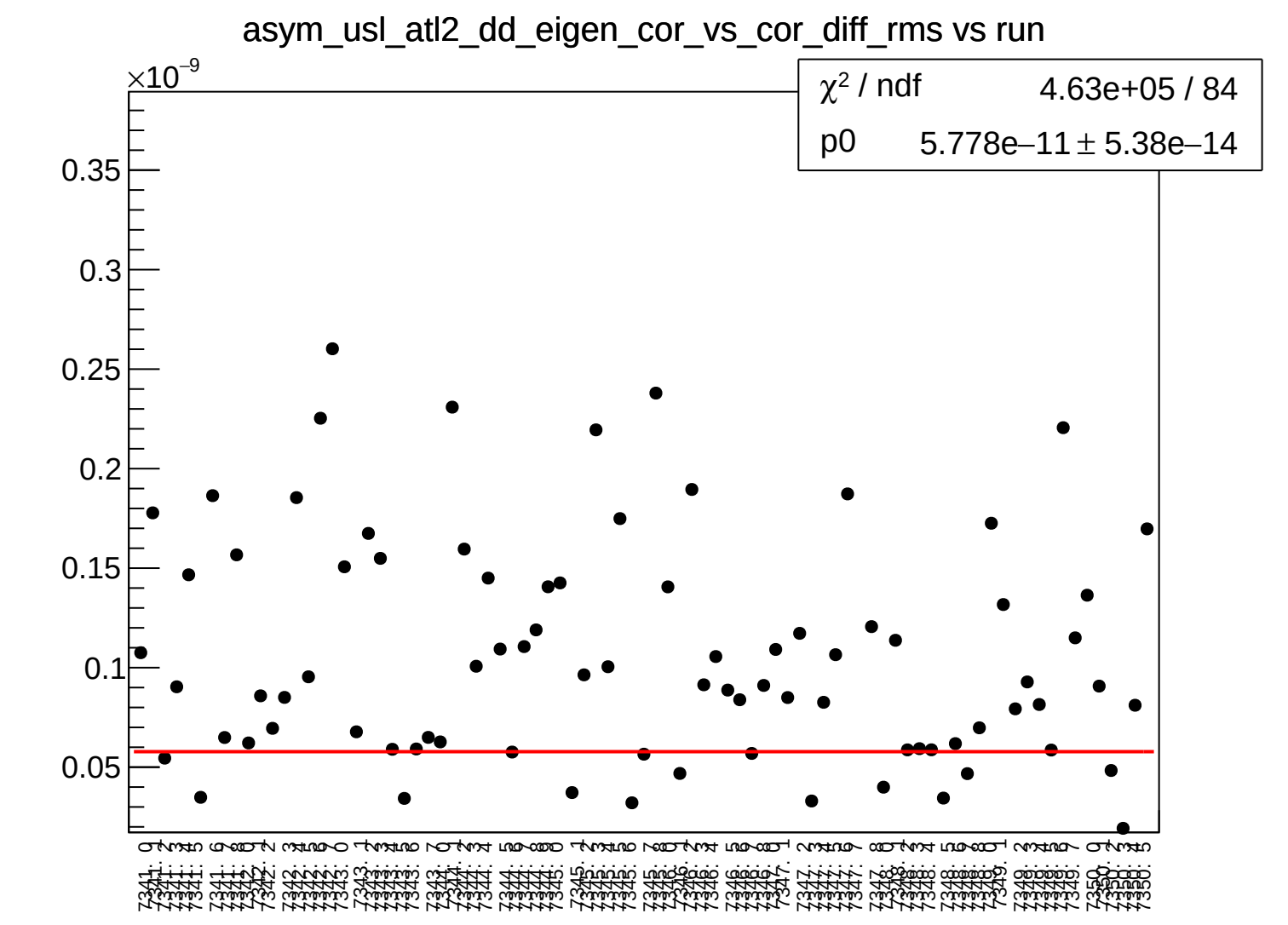

pull1D
Entries 85
Mean −0.0141
Std Dev 0.9608

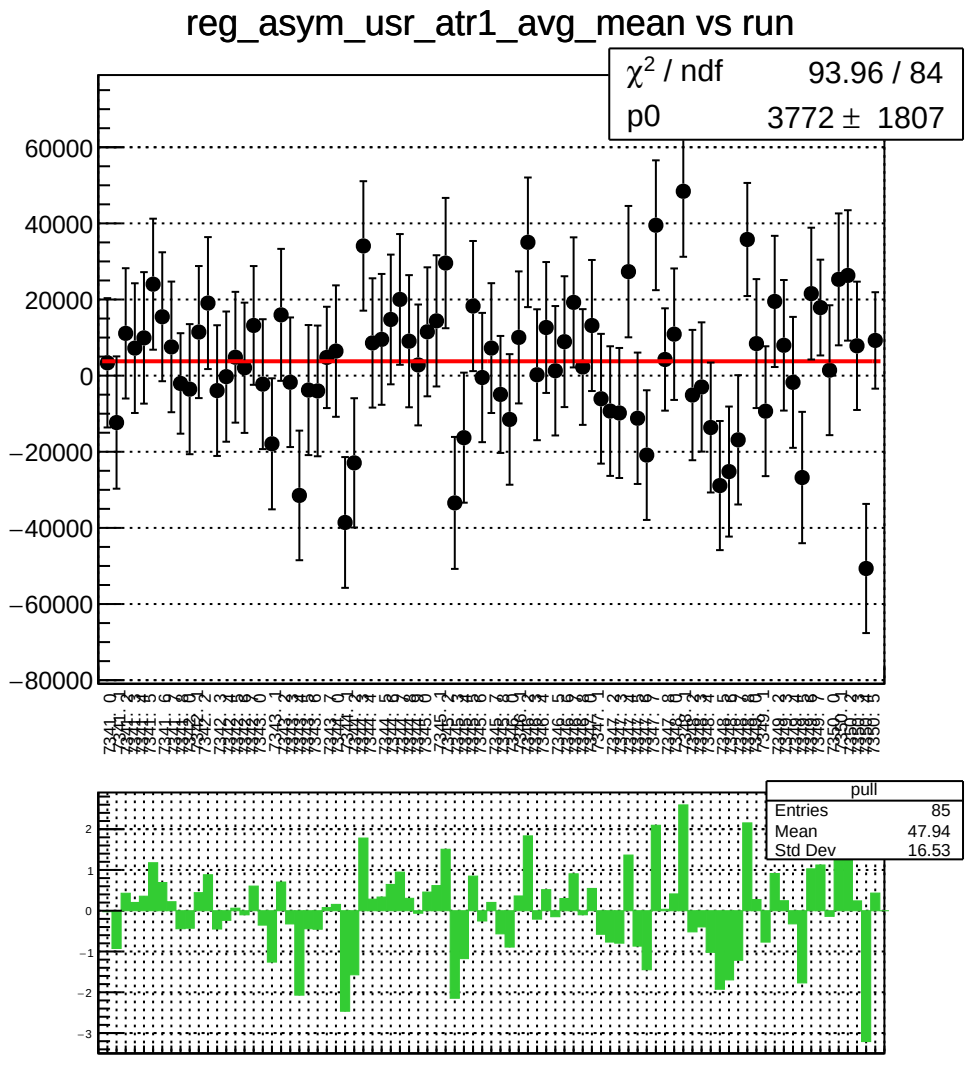

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.783e+04 / 84
p0 950.5 ± 0.7565
1600
1500
1400
1300
1200
1100
1000
900
800
700

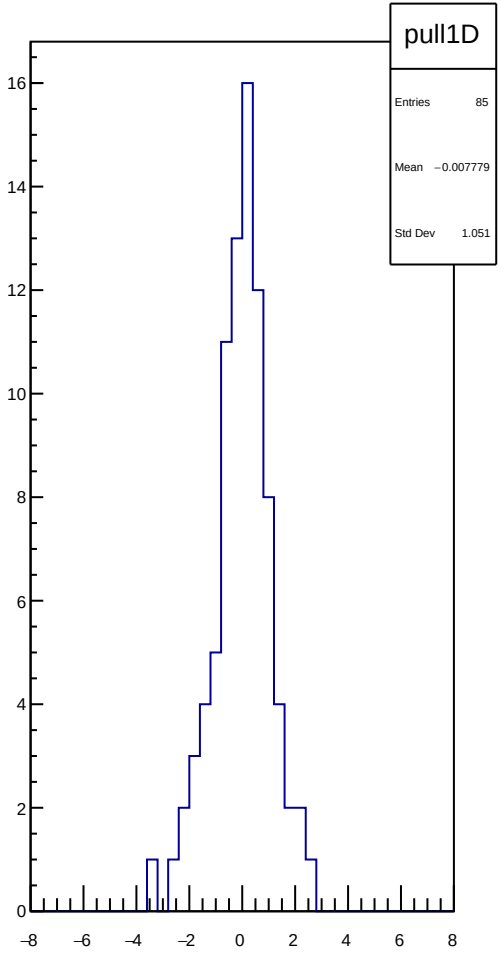

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.49 / 84
p0 0.165 ± 1.07
pull
Entries 85
Mean −164.9
Std Dev 0
pull1D
Entries 85
Mean −0.0141
Std Dev 0.9608

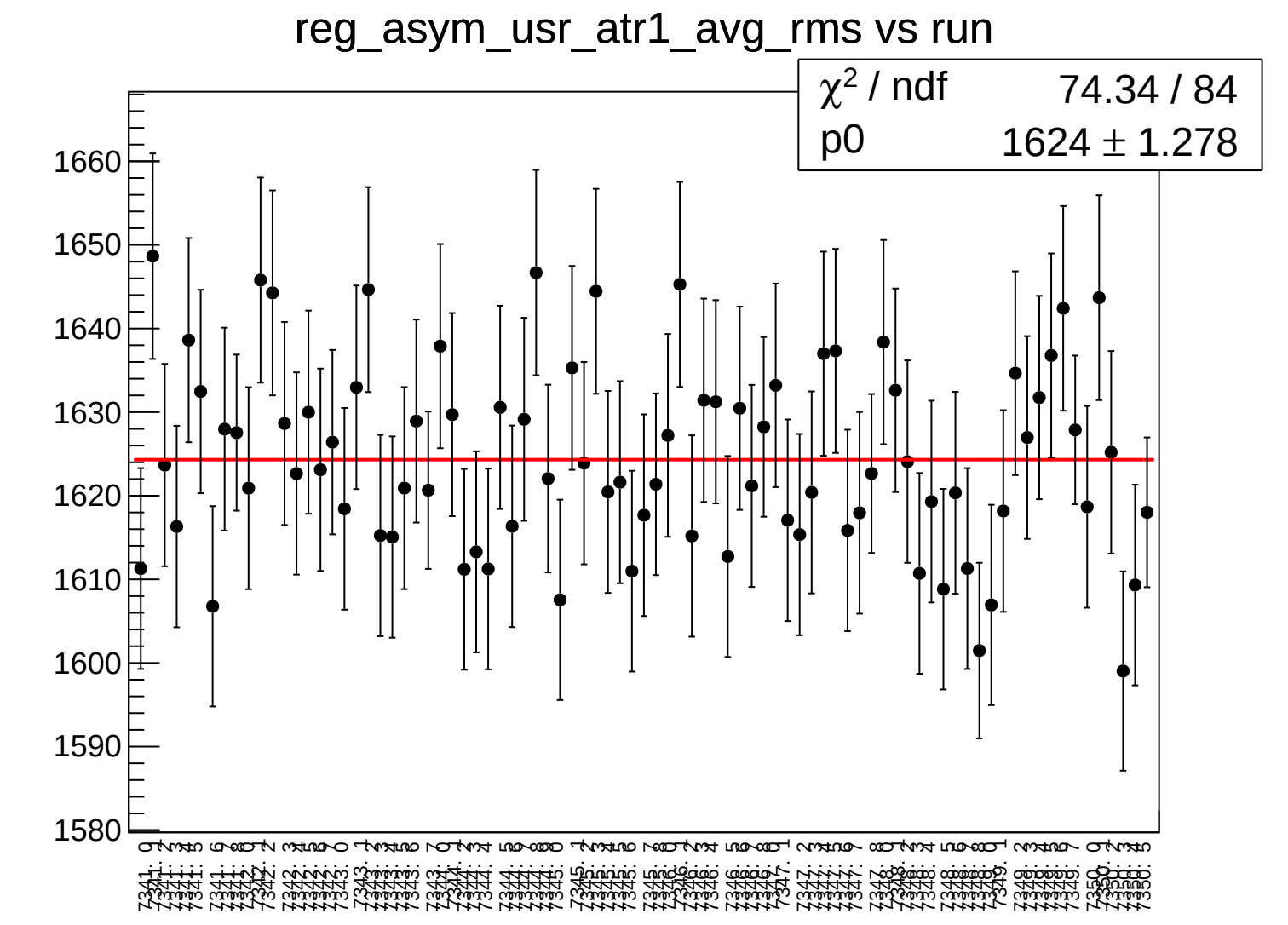

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.783e+04 / 84
p0 950.5 ± 0.7565
1600
1500
1400
1300
1200
1100
1000
900
800
700

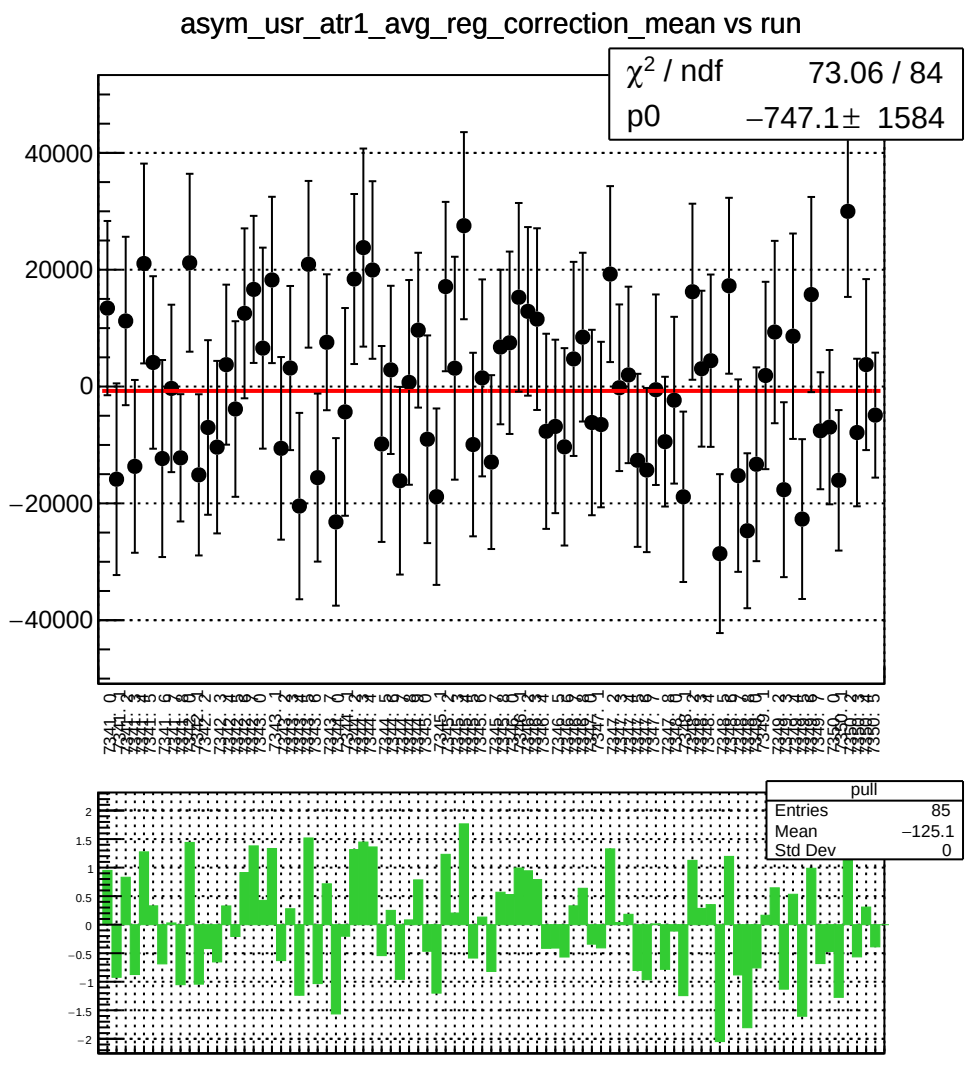

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.16 / 84
p0 −1.603e−14 ± 7.609e−14
pull
Entries 85
Mean 21.54
Std Dev 0
pull1D
Entries 85
Mean −0.02284
Std Dev 0.9147

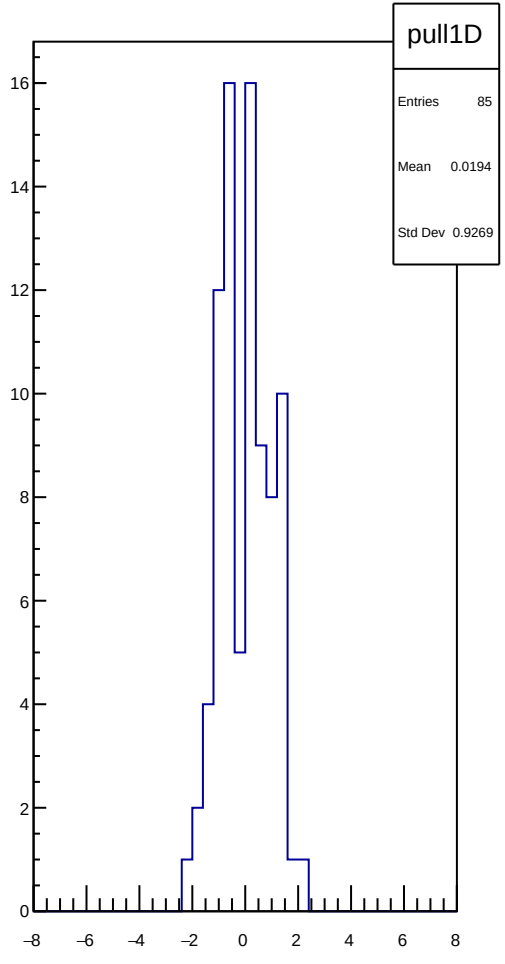

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.63e+05 / 84
p0 5.778e−11 ± 5.38e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

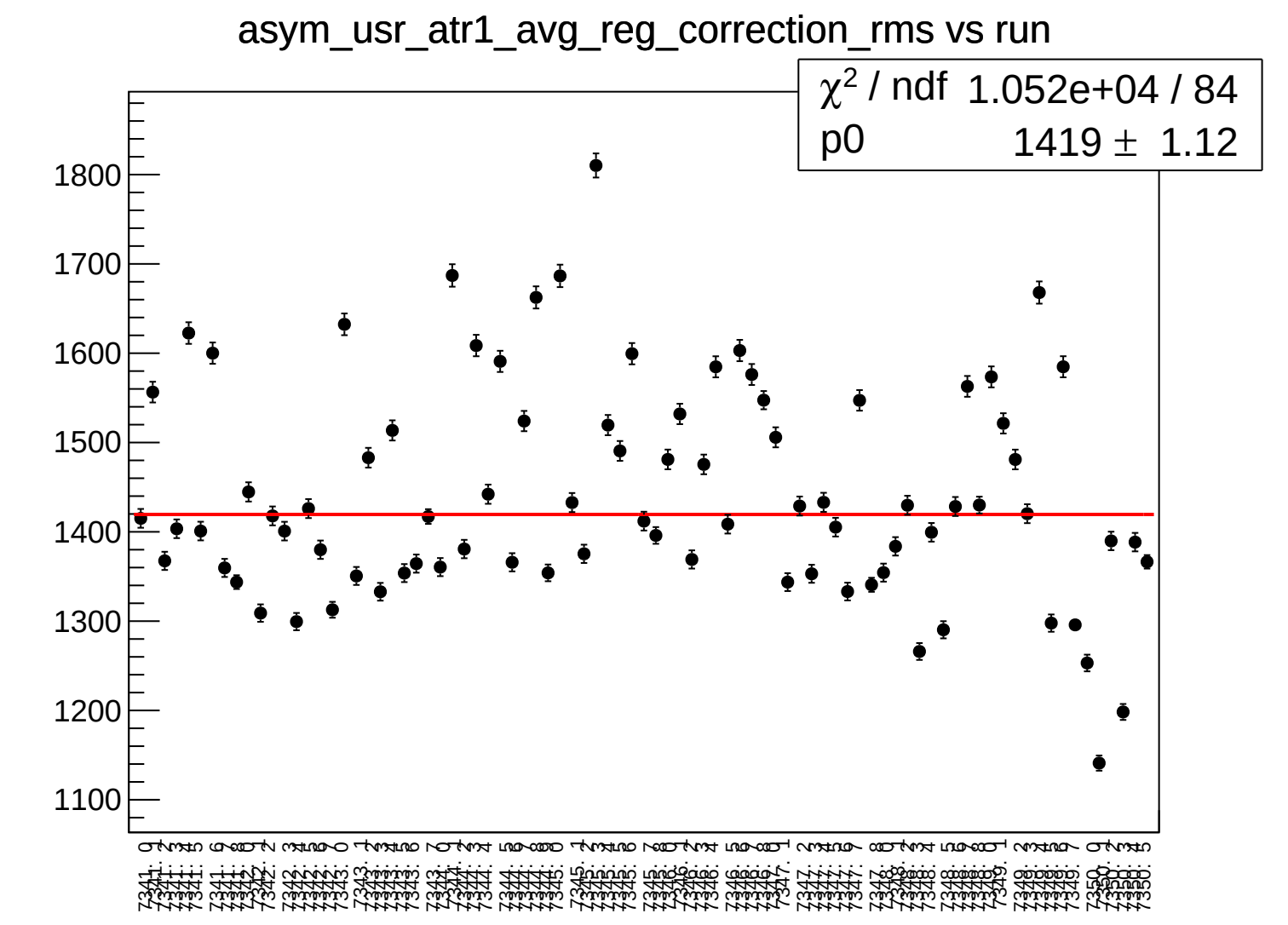

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 93.96 / 84
p0 3772 ± 1807
pull
Entries 85
Mean 47.94
Std Dev 16.53

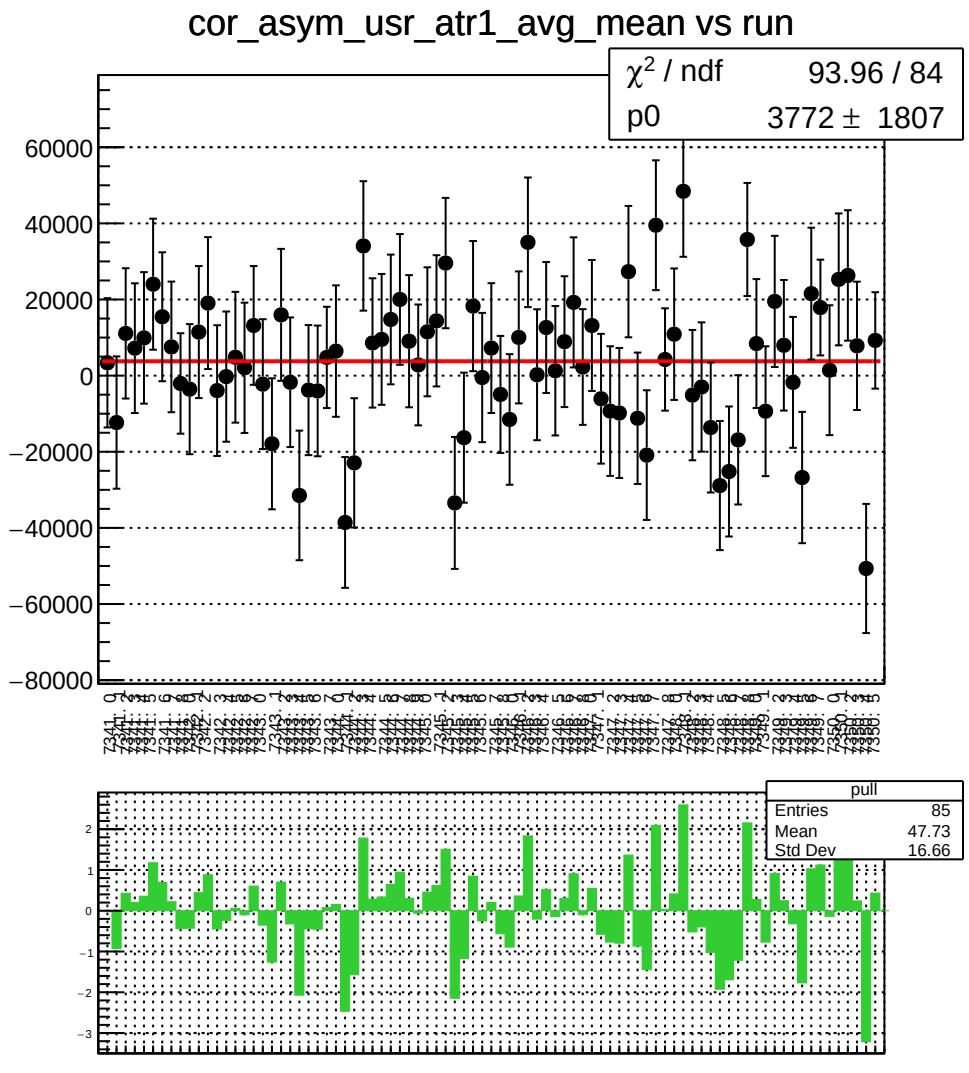

pull1D
Entries 85
Mean −0.007779
Std Dev 1.051

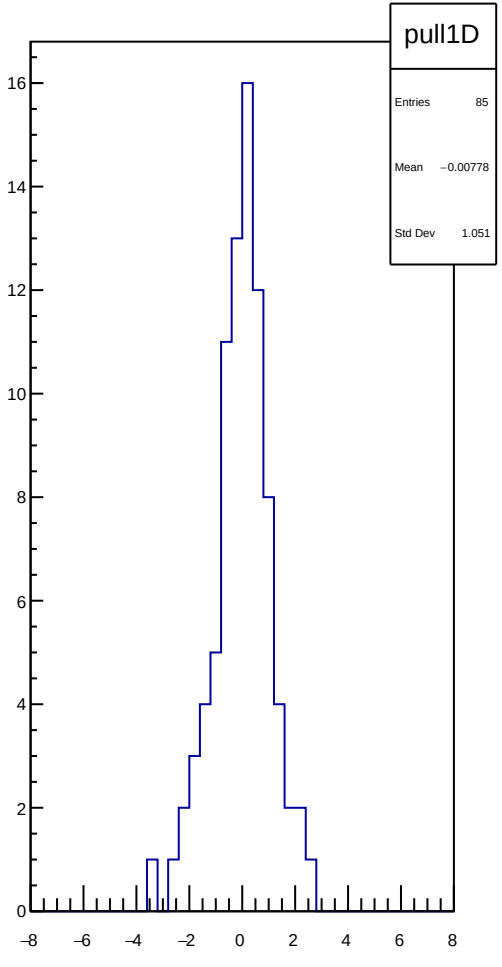

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 74.34 / 84
p0 1624 ± 1.278
1660
1650
1640
1630
1620
1610
1600
1590
1580

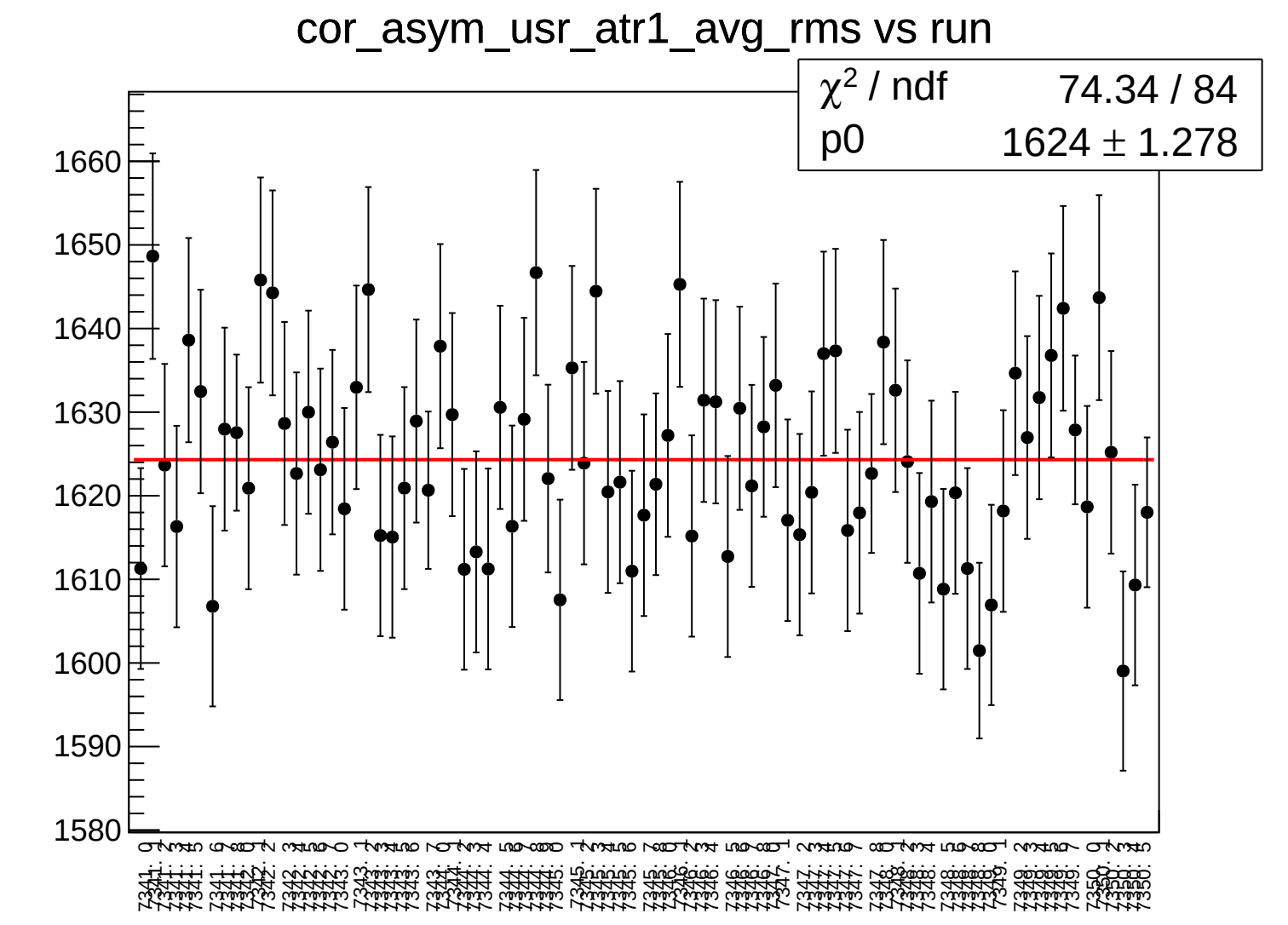

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 73.06 / 84
p0 −747.1± 1584
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −125.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

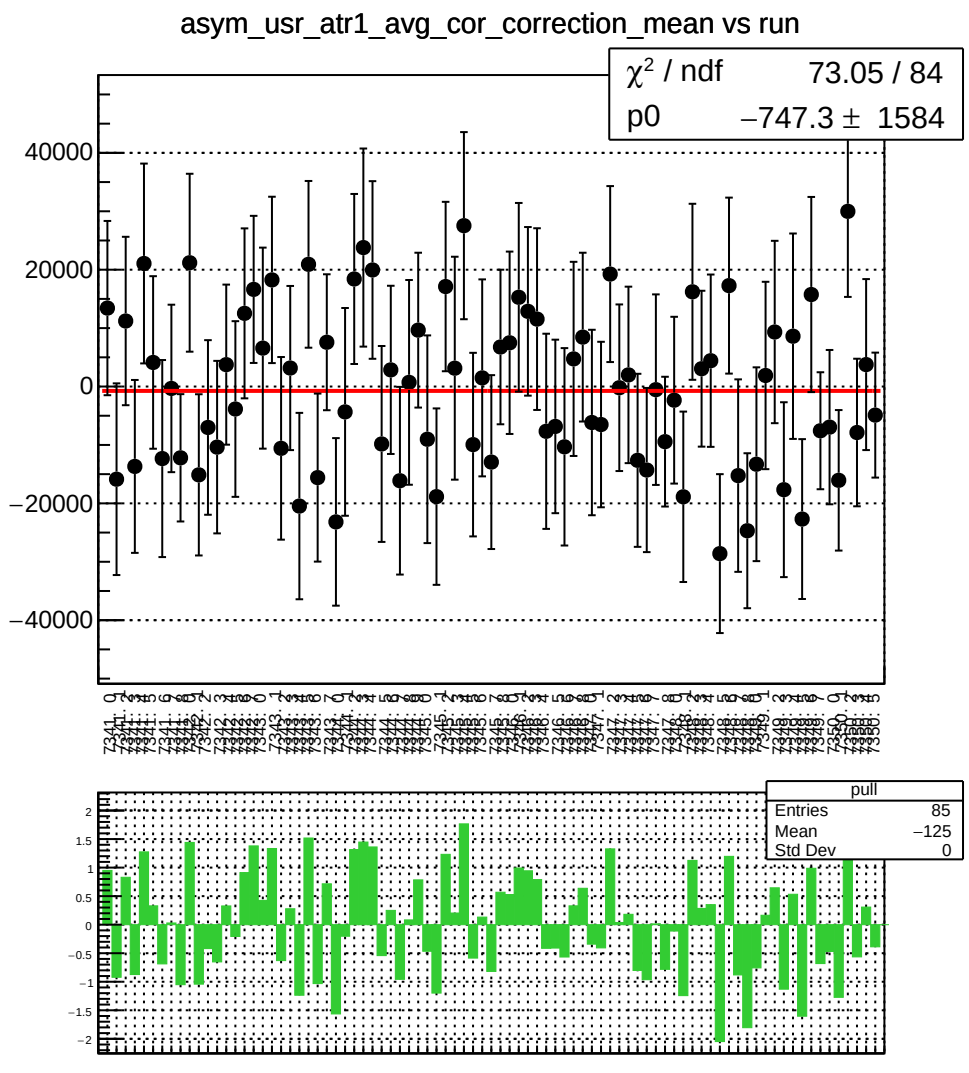

pull1D
Entries 85
Mean 0.0194
Std Dev 0.9269
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

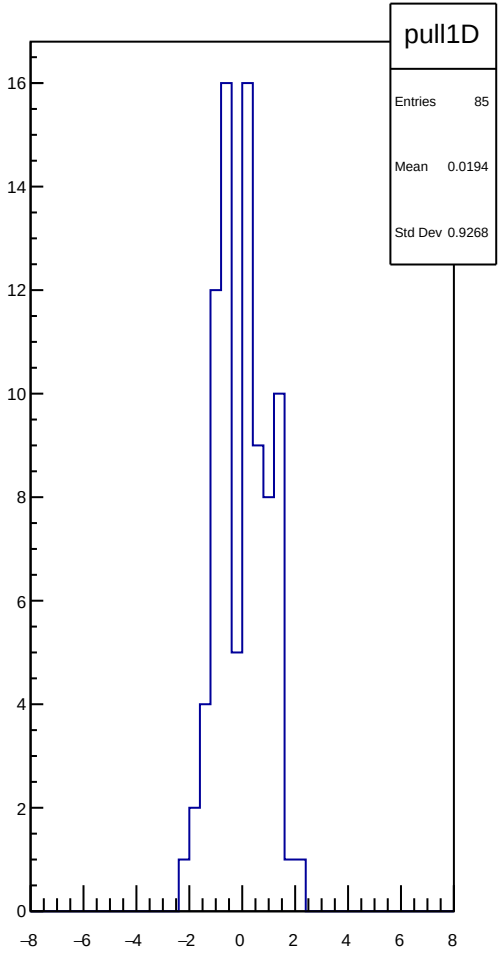

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.052e+04 / 84
p0 1419 ± 1.12
1800
1700
1600
1500
1400
1300
1200
1100

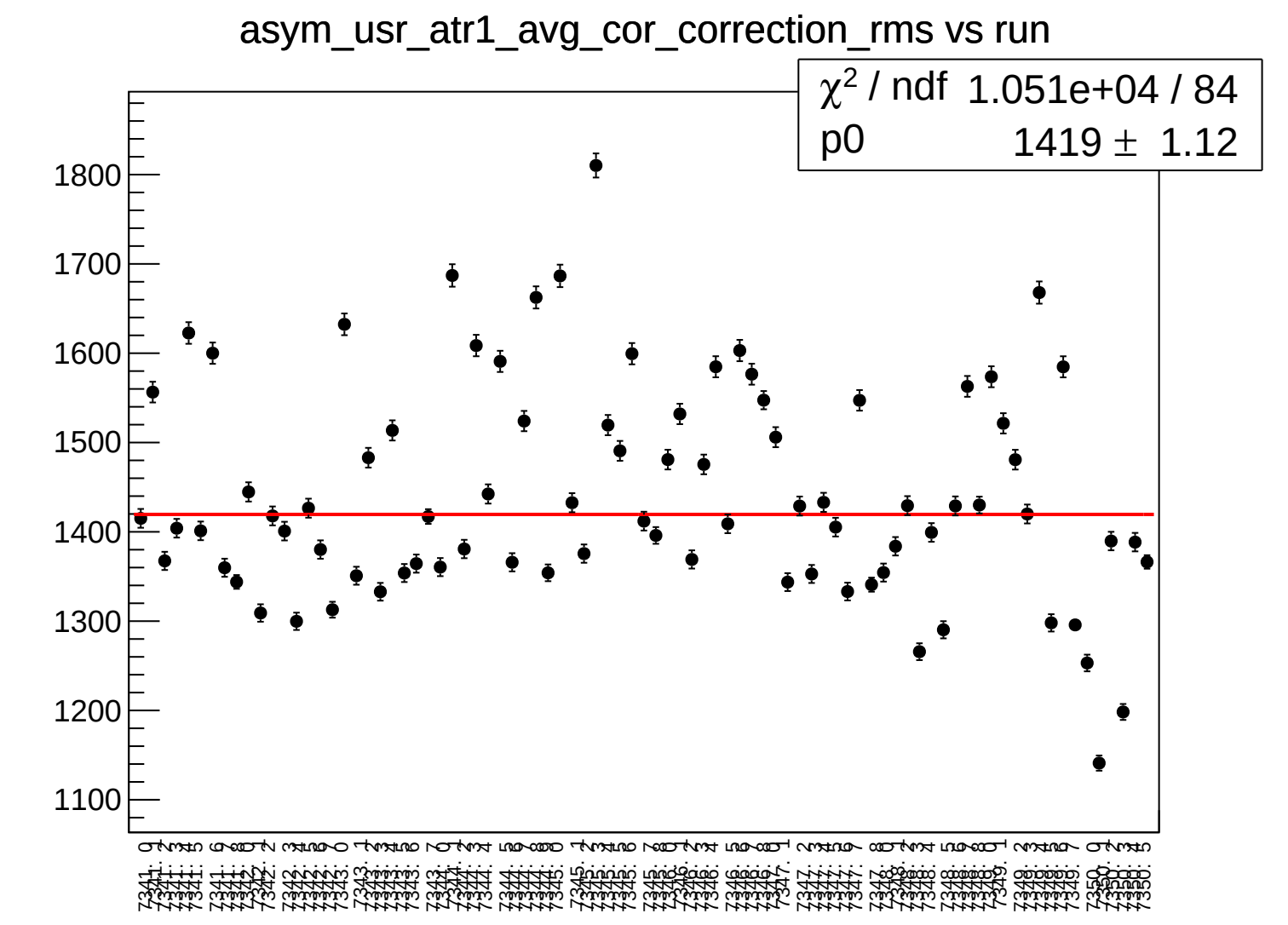

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 93.96 / 84
p0 3772 ± 1807
pull
Entries 85
Mean 47.73
Std Dev 16.66

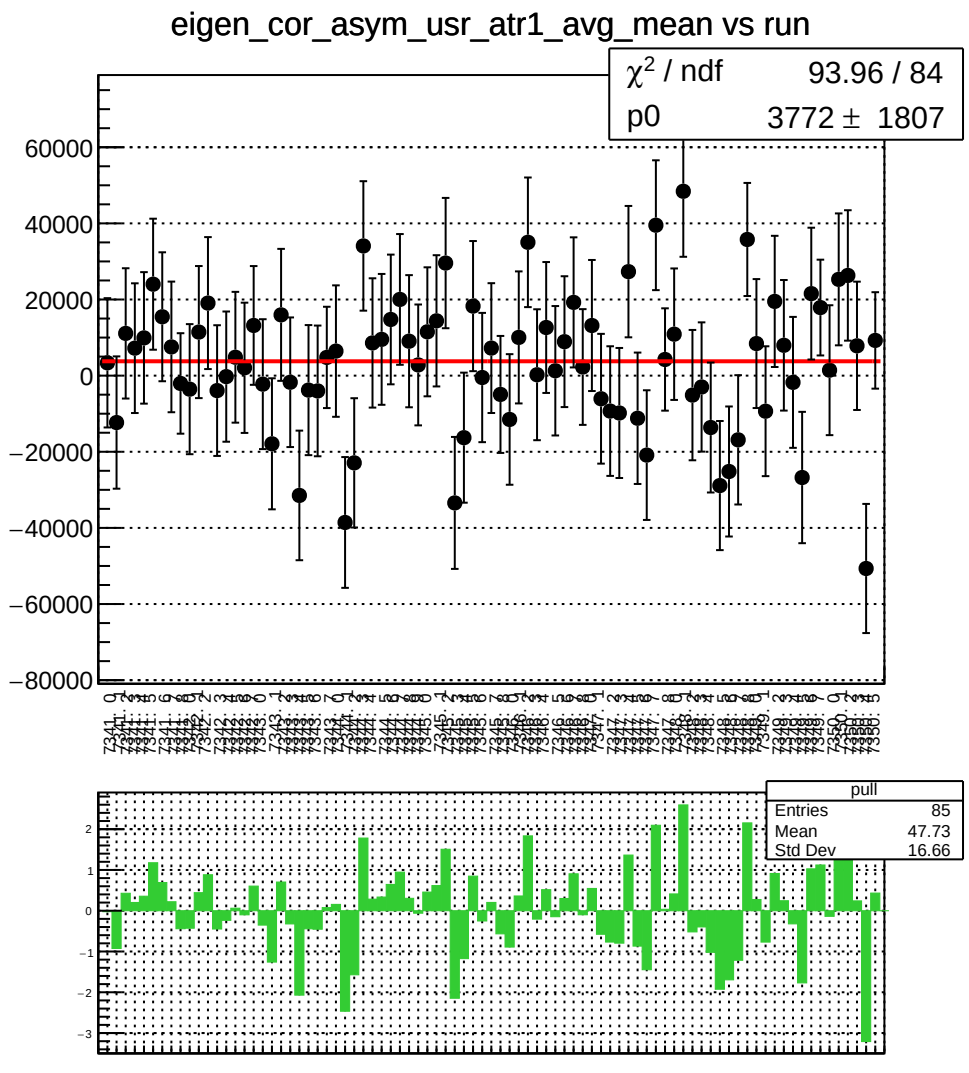

pull1D
Entries 85
Mean −0.00778
Std Dev 1.051

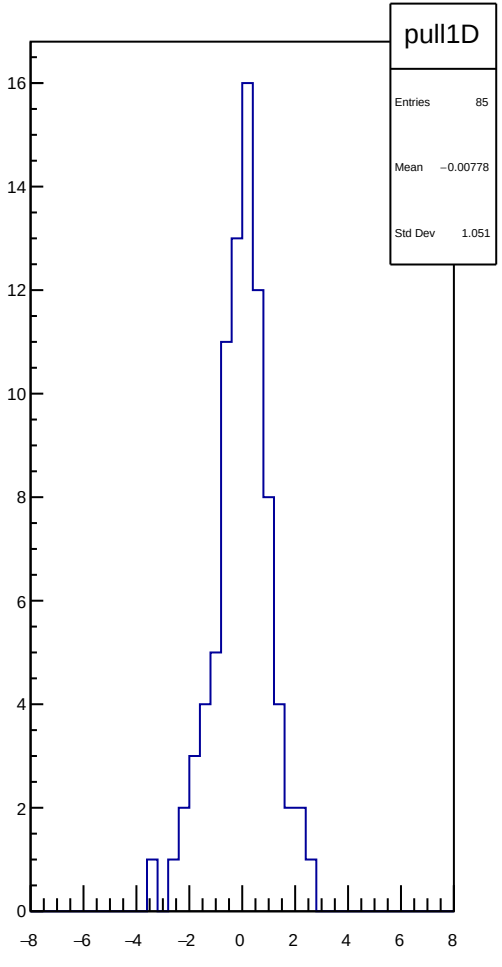

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 74.34 / 84
p0 1624 ± 1.278
1660
1650
1640
1630
1620
1610
1600
1590
1580

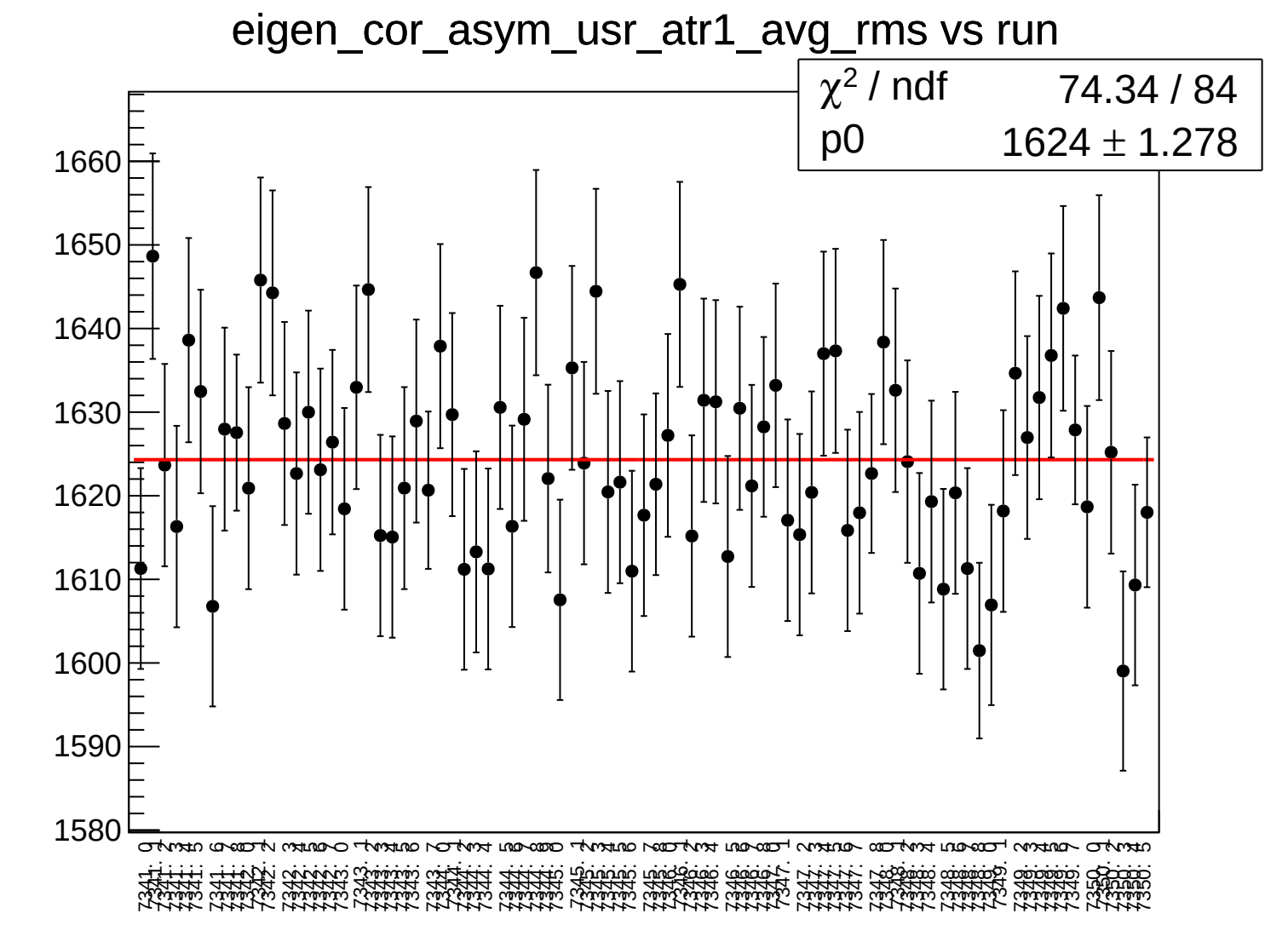

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 73.05 / 84
p0 −747.3 ± 1584
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

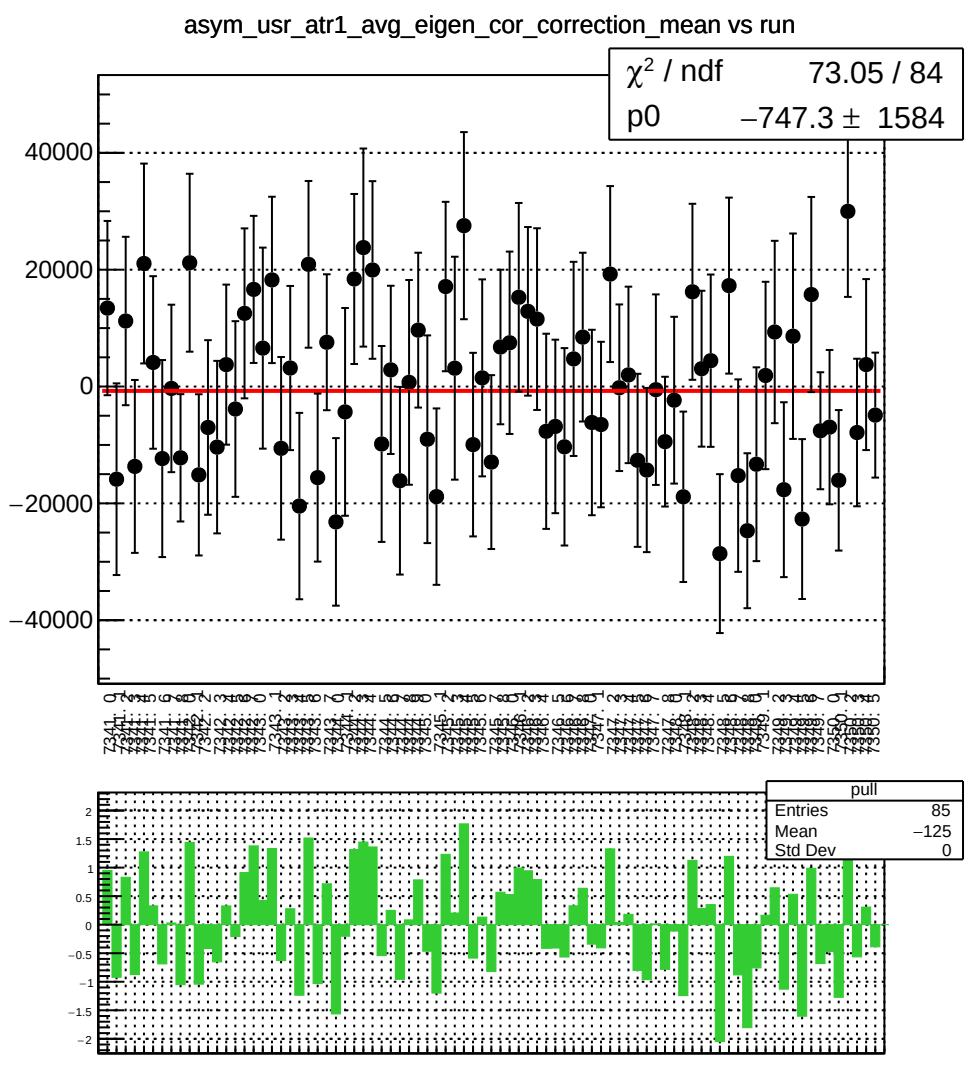

pull1D
Entries 85
Mean 0.0194
Std Dev 0.9268
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

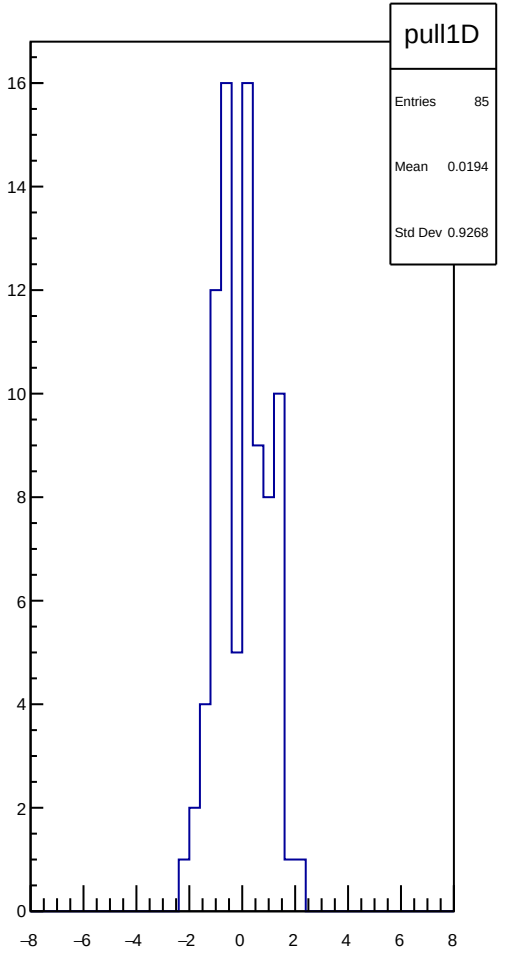

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.051e+04 / 84
p0 1419 ± 1.12
1800
1700
1600
1500
1400
1300
1200
1100

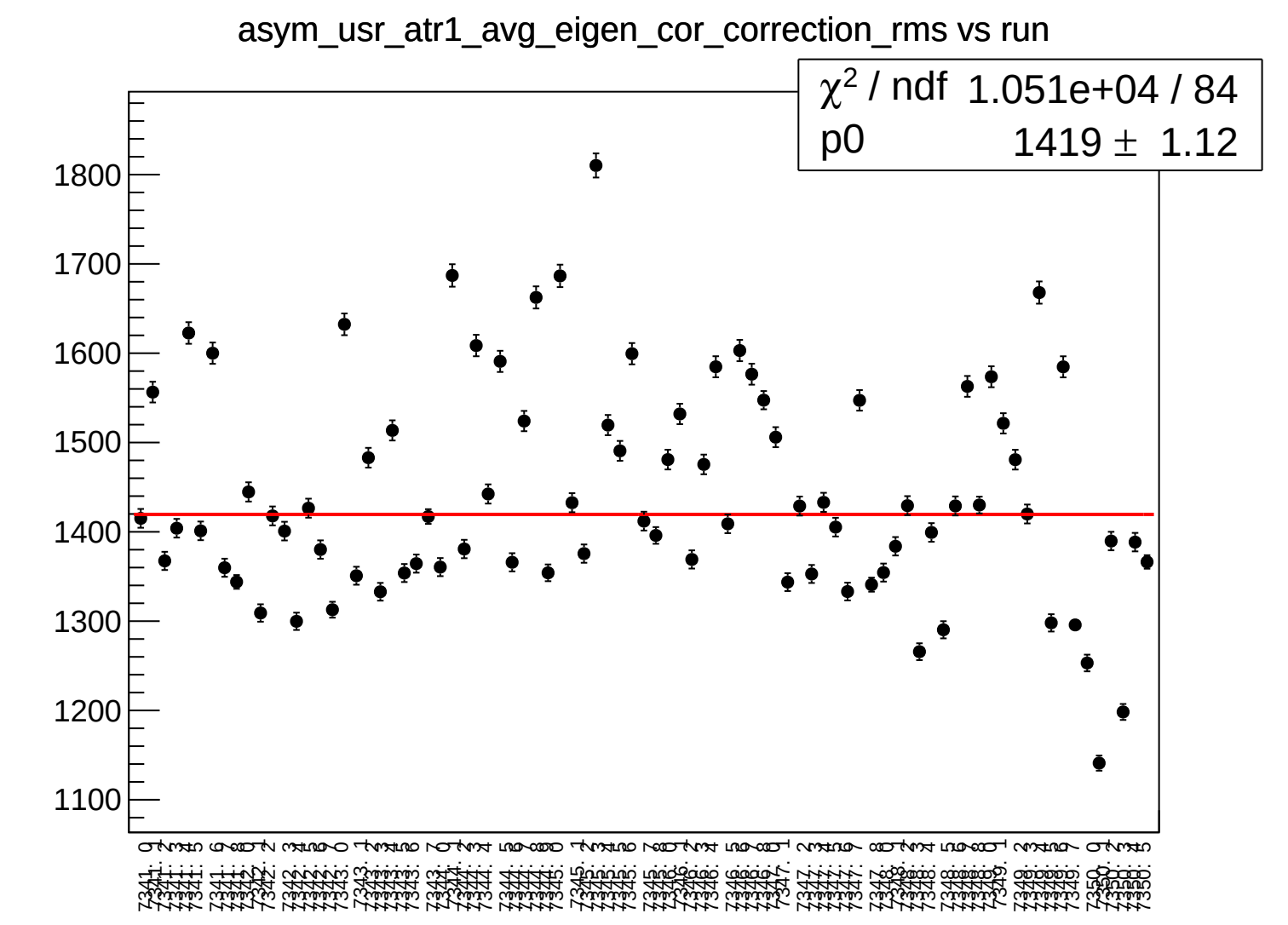

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 93.96 / 84
p0 3772 ± 1807
pull
Entries 85
Mean 47.73
Std Dev 16.66

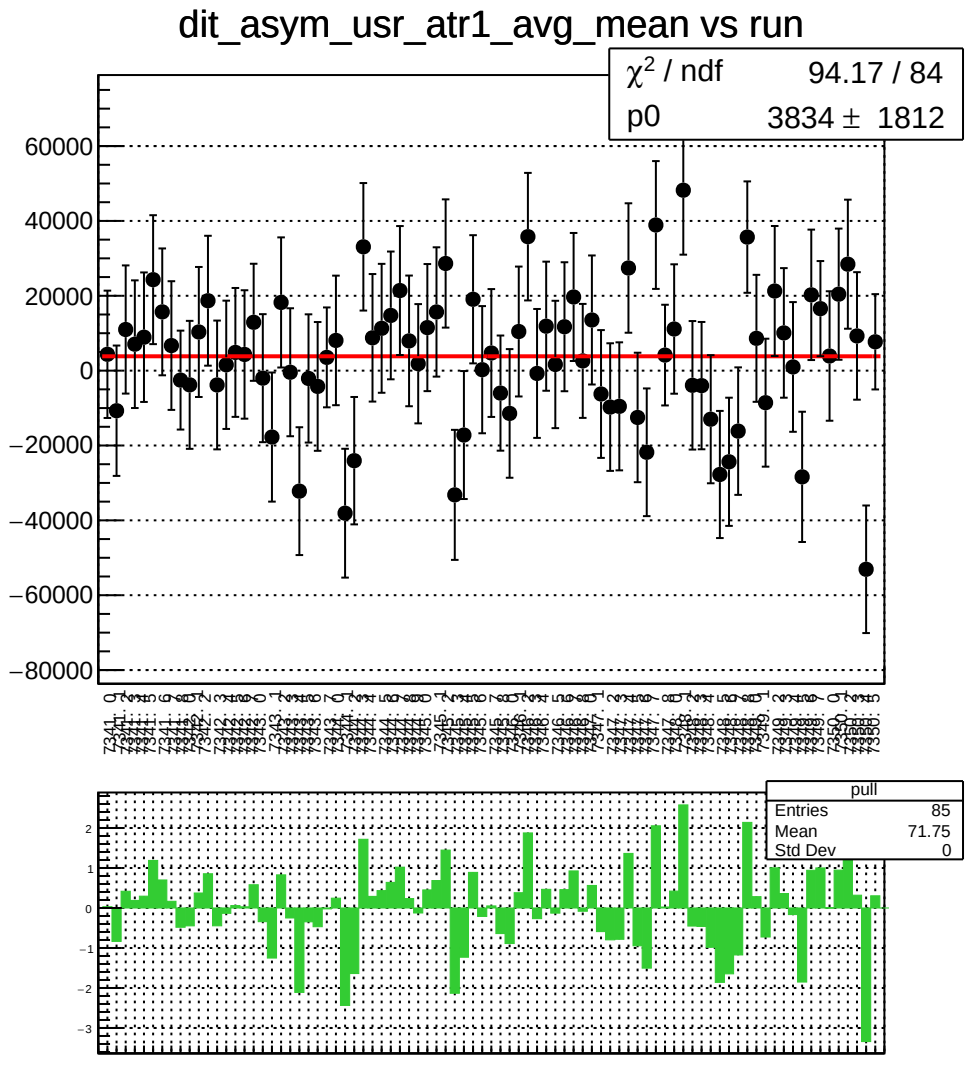

pull1D
Entries 85
Mean −0.00778
Std Dev 1.051

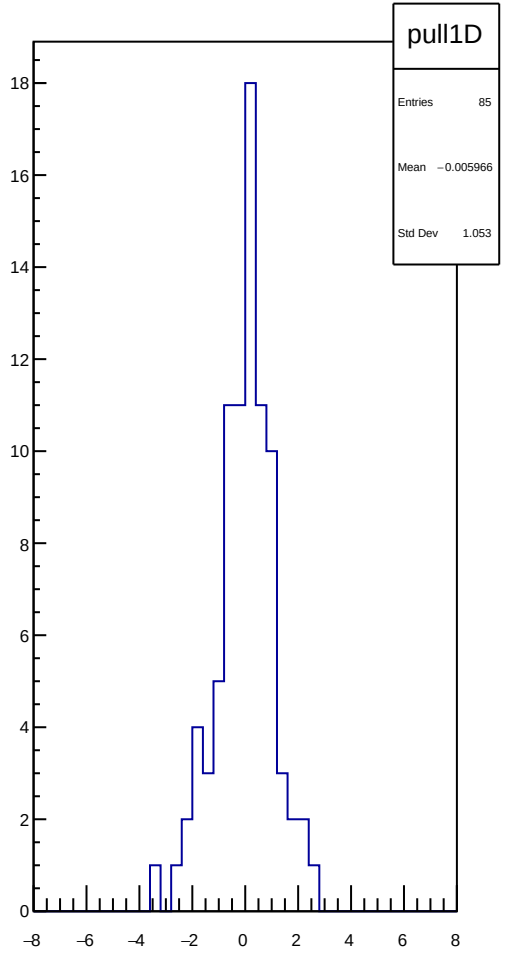

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 74.34 / 84
p0 1624 ± 1.278
1660
1650
1640
1630
1620
1610
1600
1590
1580

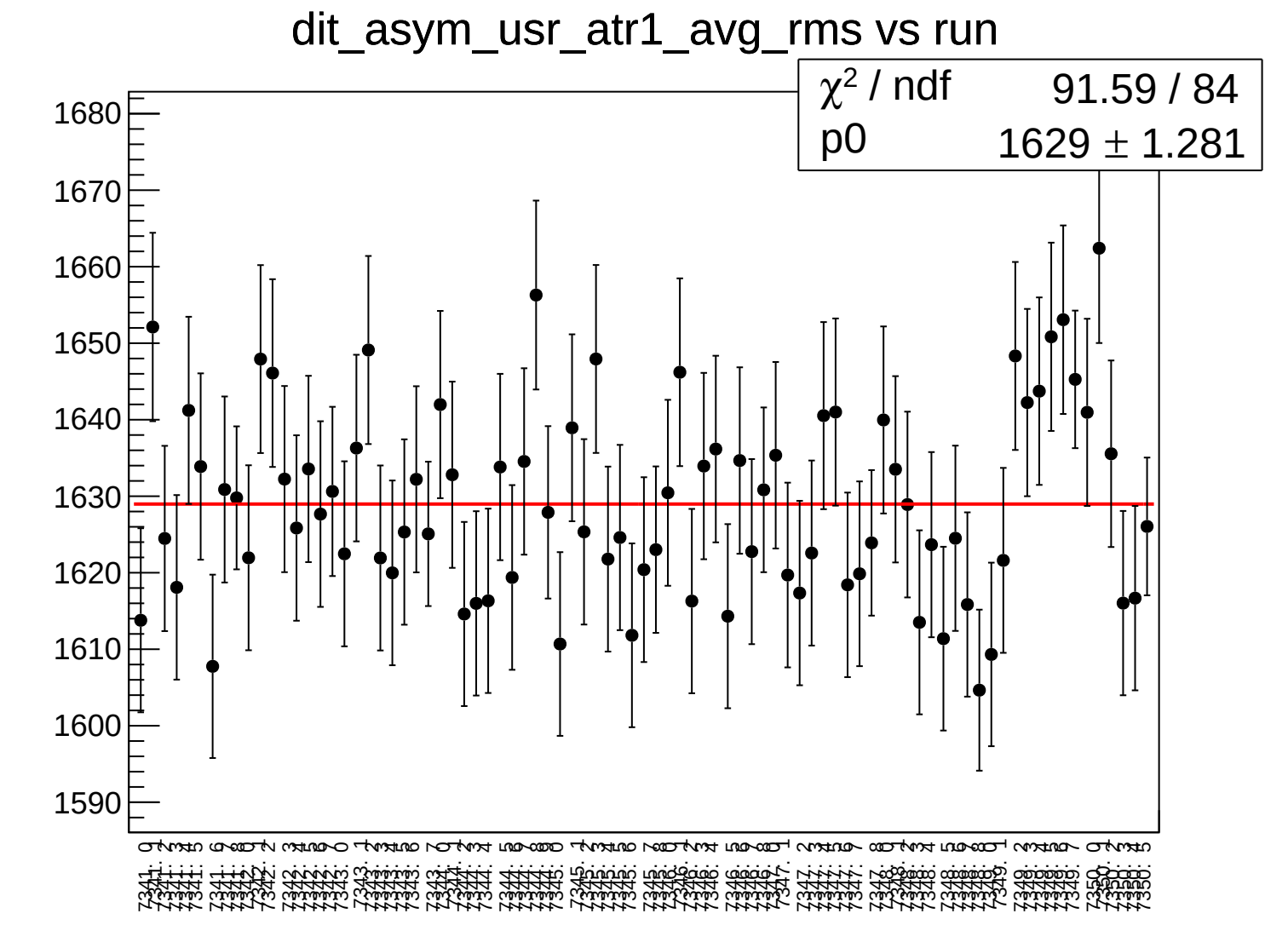

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.05 / 84
p0 −747.3 ± 1584
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −125
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

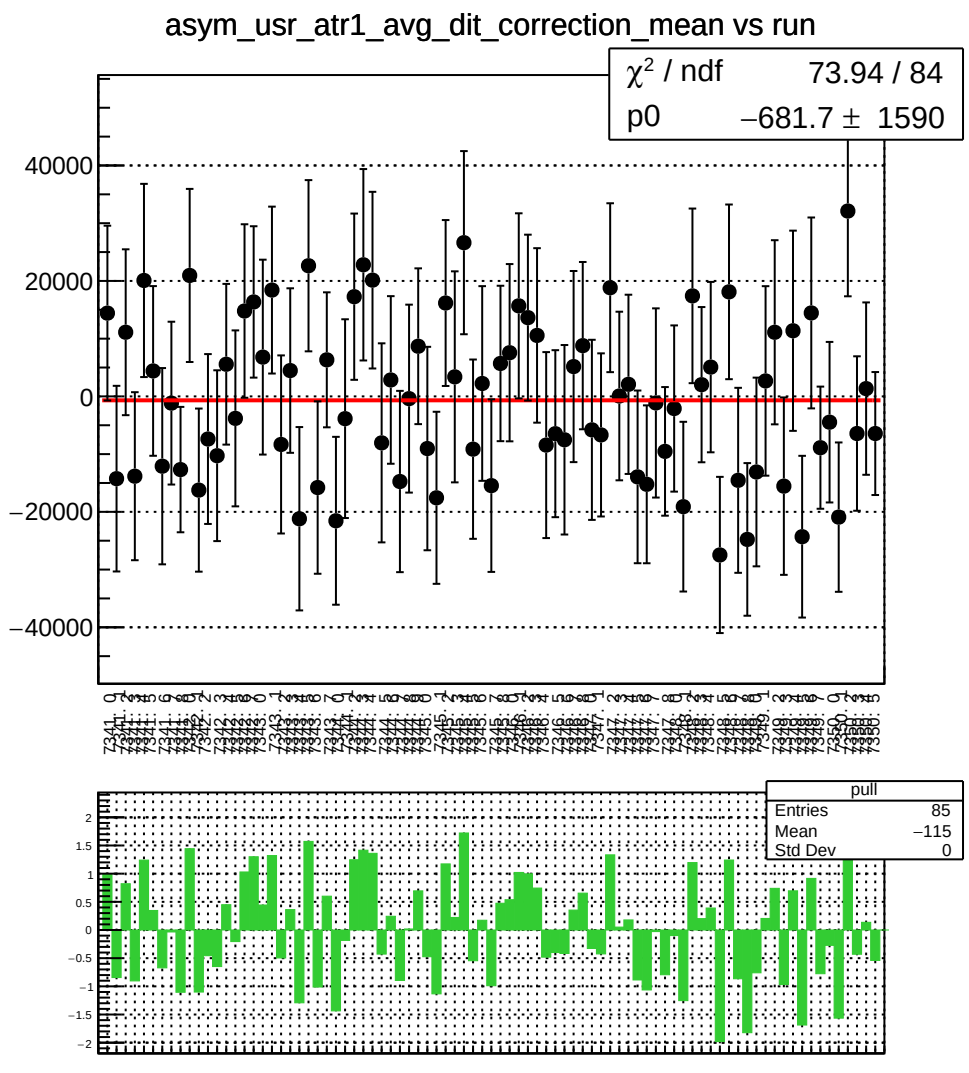

pull1D
Entries 85
Mean 0.0194
Std Dev 0.9268
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

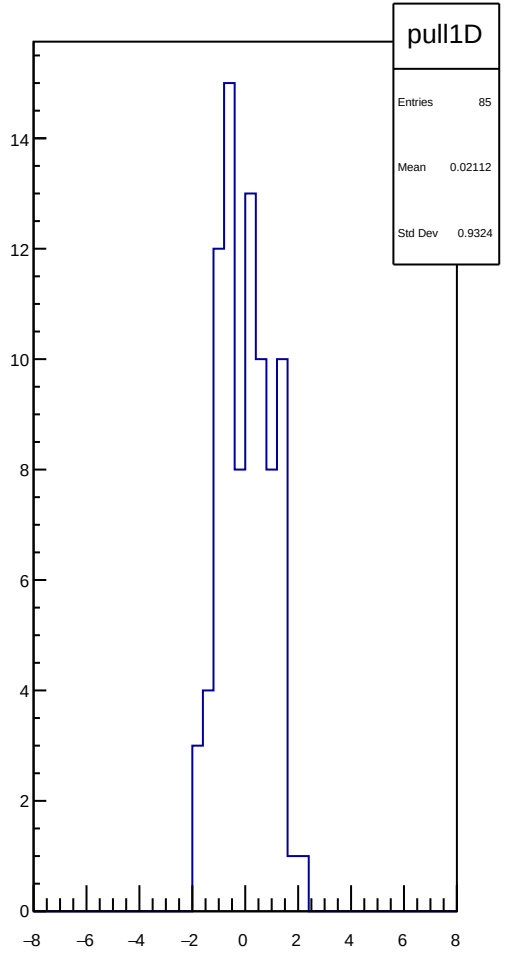

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.051e+04 / 84
p0 1419 ± 1.12
1800
1700
1600
1500
1400
1300
1200
1100

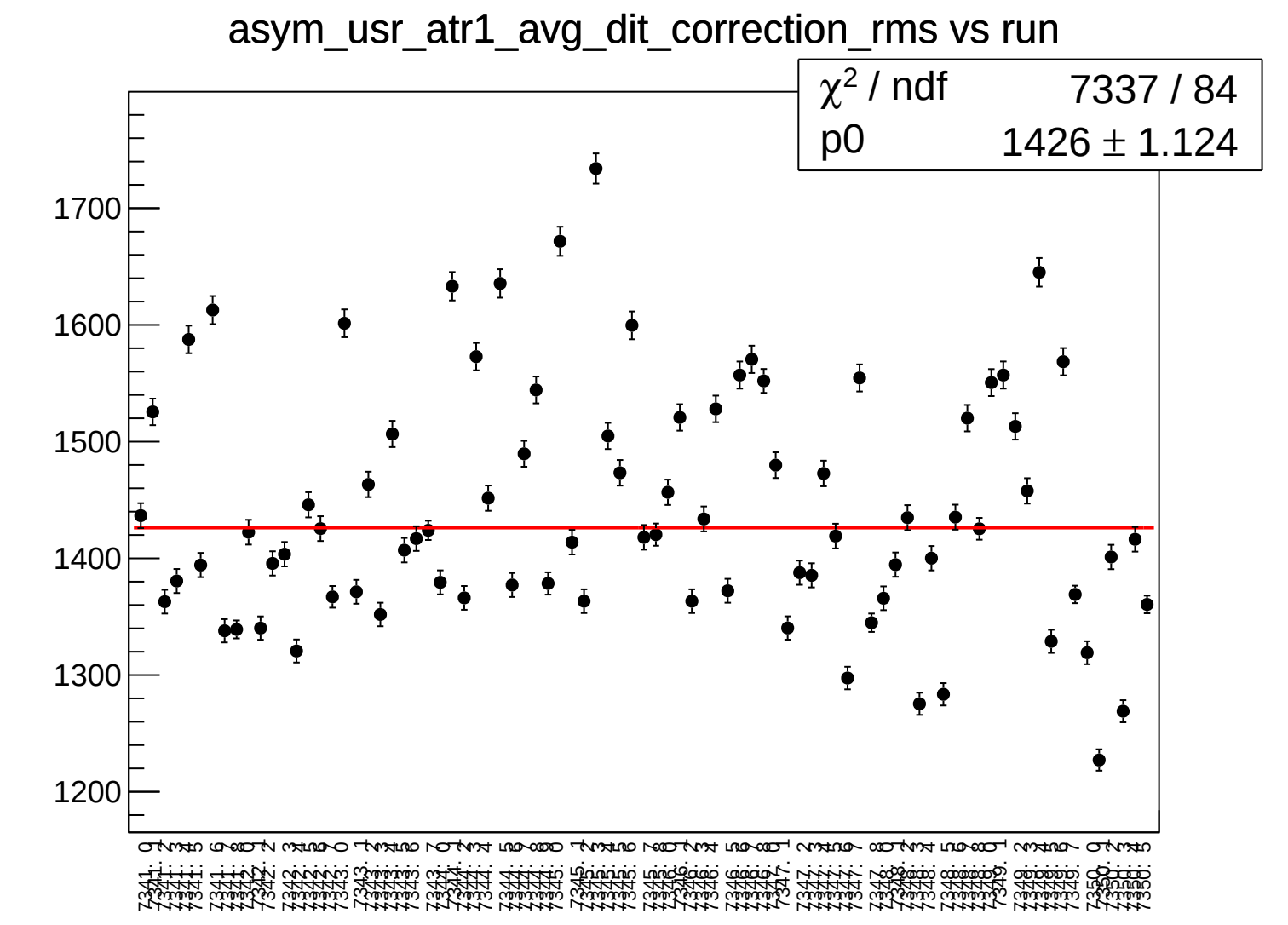

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.17 / 84
p0 3834 ± 1812
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 71.75
Std Dev 0
2
1
0
−1
−2
−3

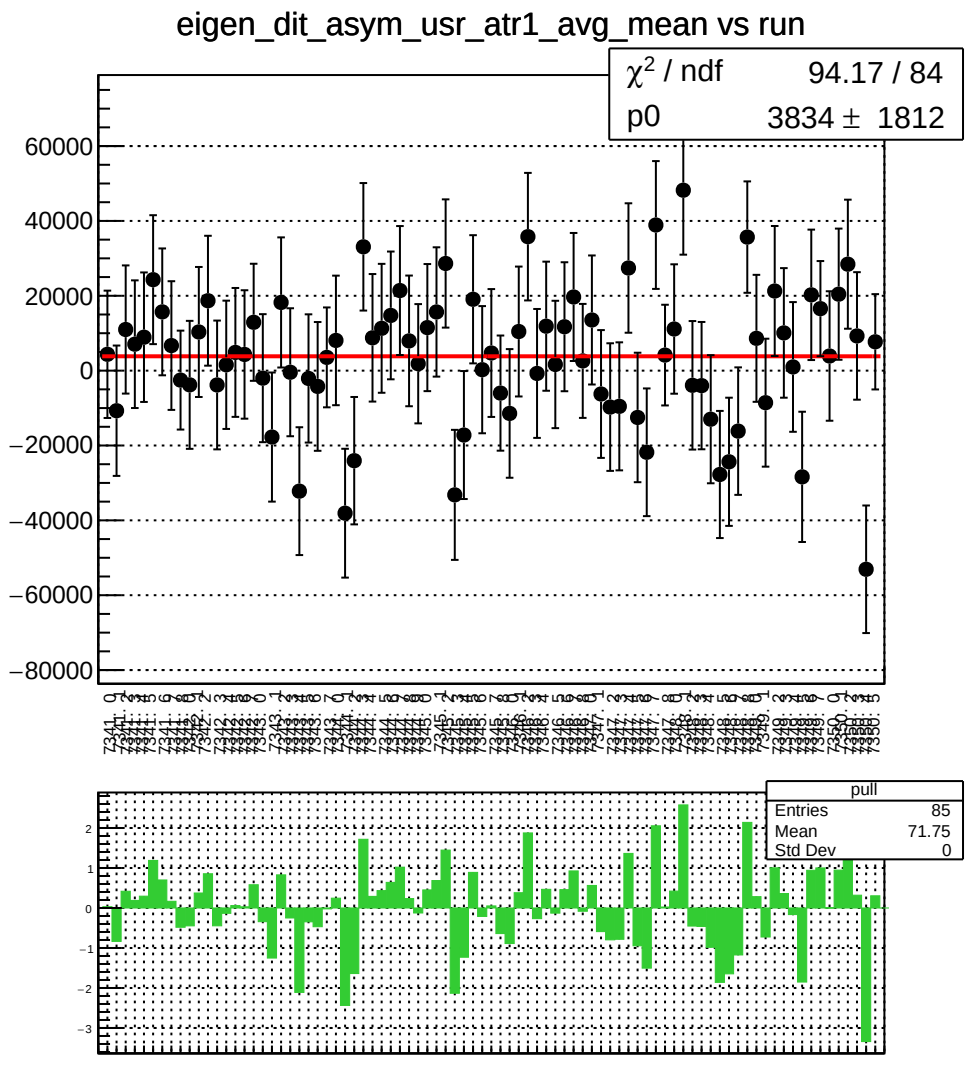

pull1D
Entries 85
Mean −0.005966
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

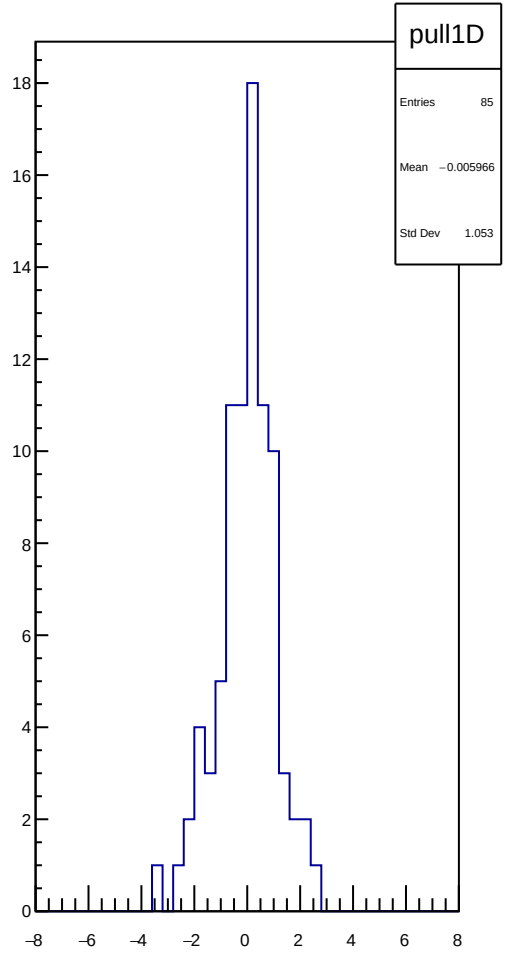

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 91.59 / 84
p0 1629 ± 1.281
1680
1670
1660
1650
1640
1630
1620
1610
1600
1590

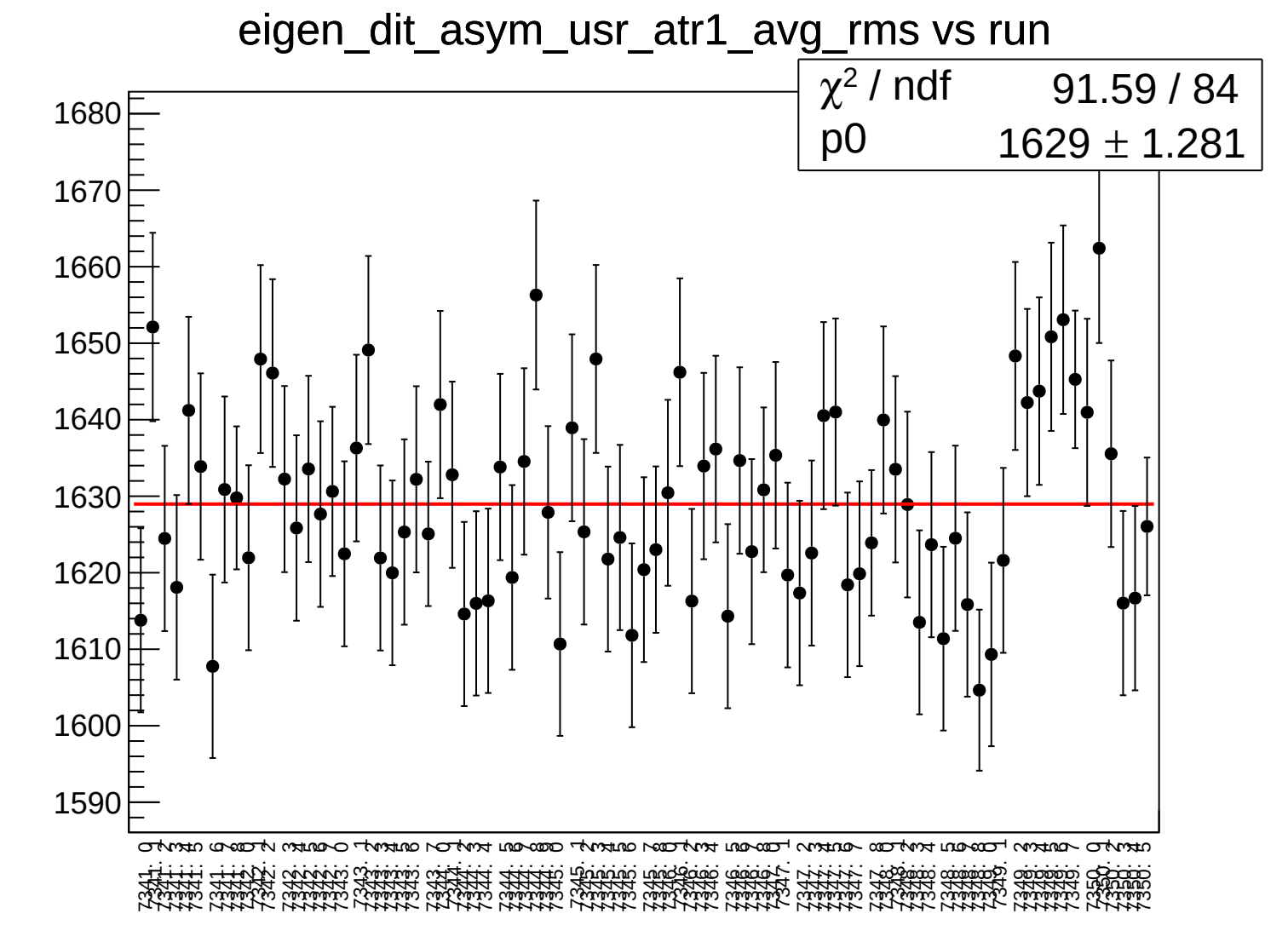

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 73.94 / 84
p0 −681.7 ± 1590
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −115
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

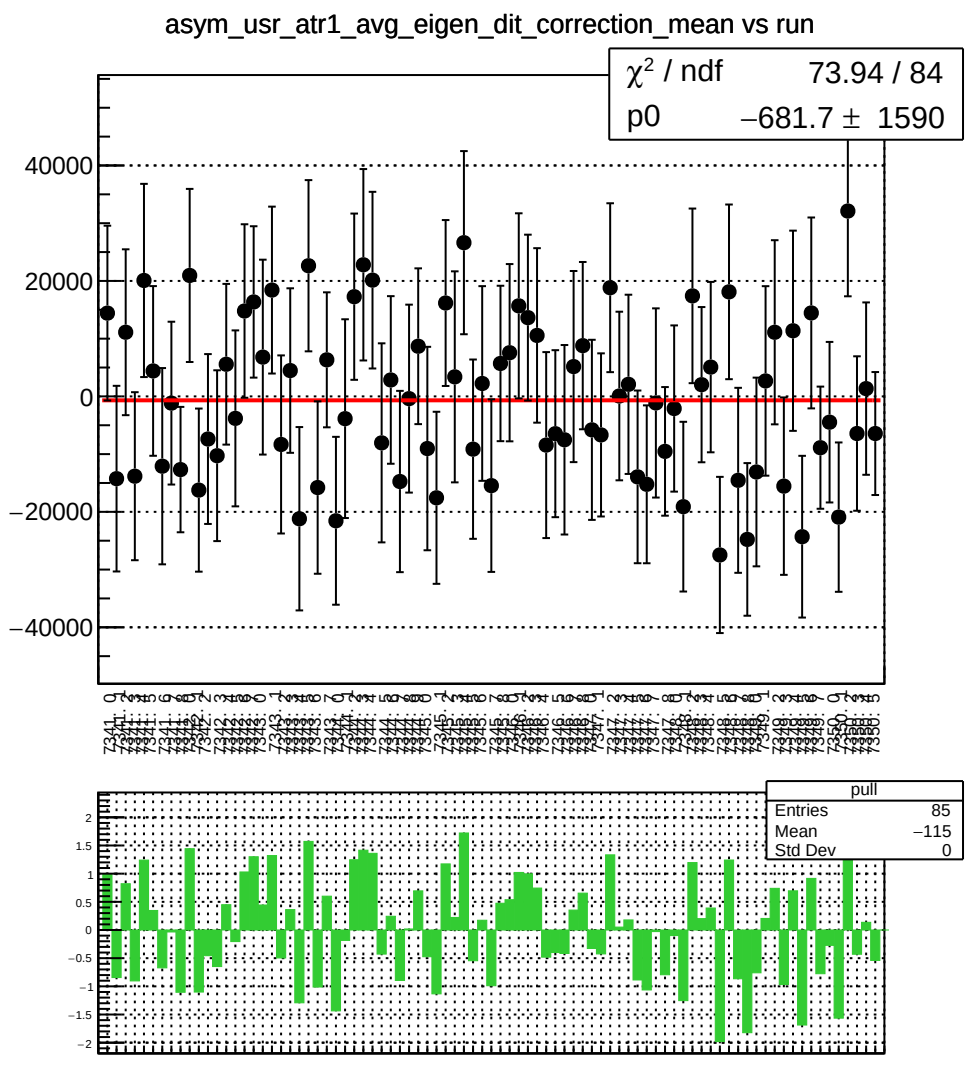

pull1D
Entries 85
Mean 0.02112
Std Dev 0.9324
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

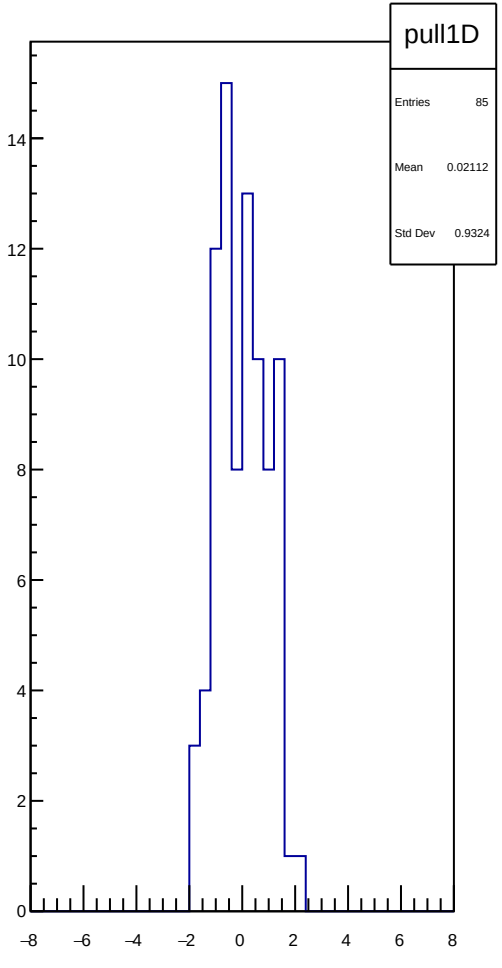

asym_usr_atr1_avg_dit_correction_rms vs run
χ^2 / ndf 7337 / 84
p0 1426 ± 1.124
1700
1600
1500
1400
1300
1200

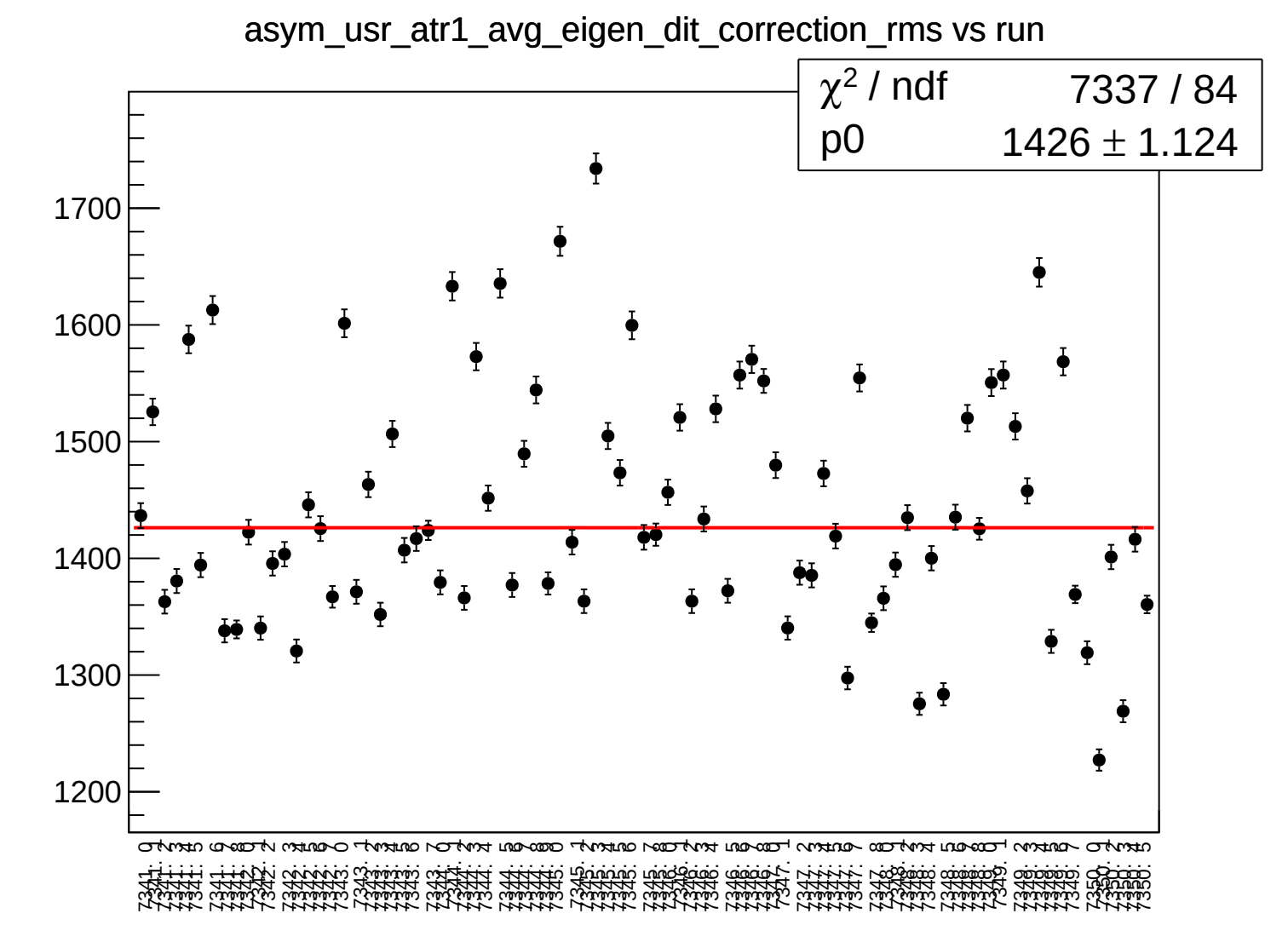

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.17 / 84
p0 3834 ± 1812
pull
Entries 85
Mean 71.75
Std Dev 0

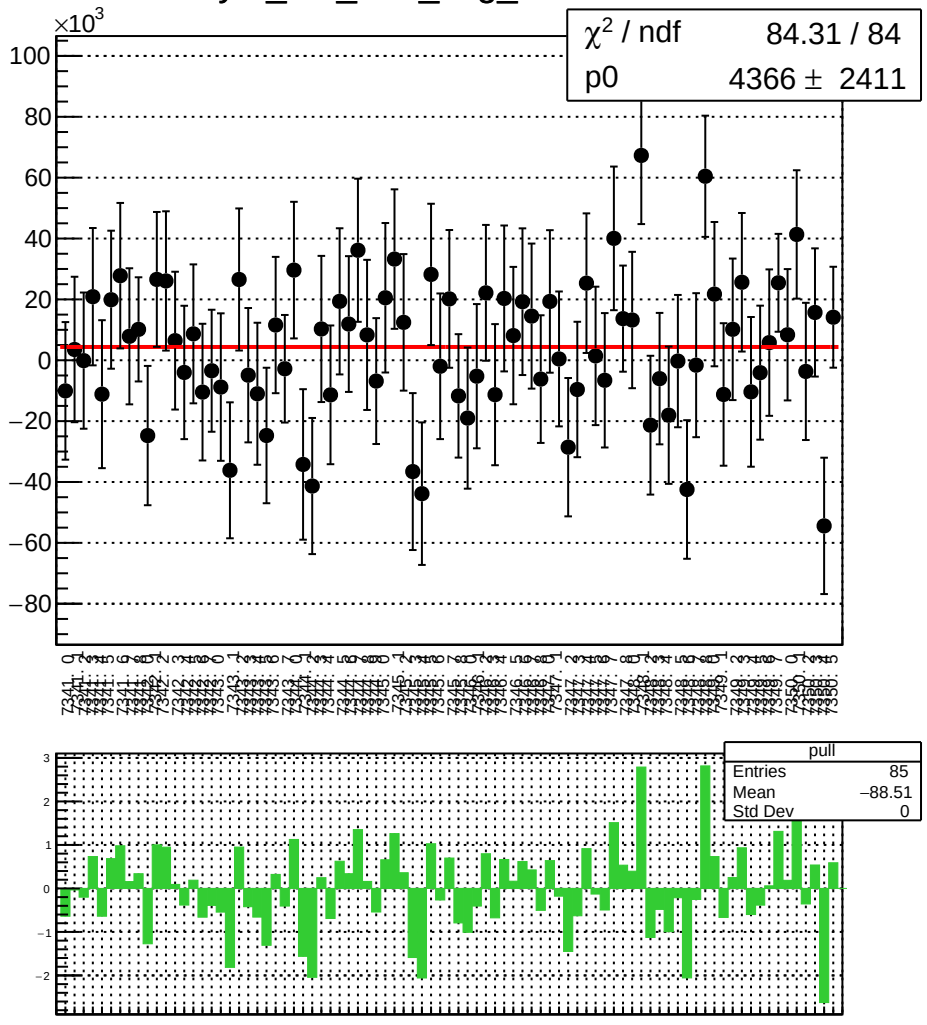

pull1D
Entries 85
Mean −0.005966
Std Dev 1.053

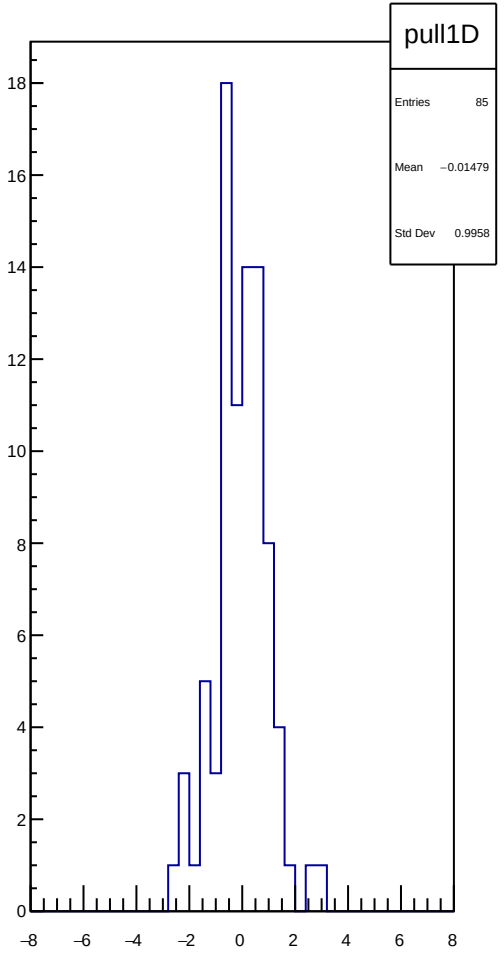

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 91.59 / 84
p0 1629 ± 1.281
1680
1670
1660
1650
1640
1630
1620
1610
1600
1590

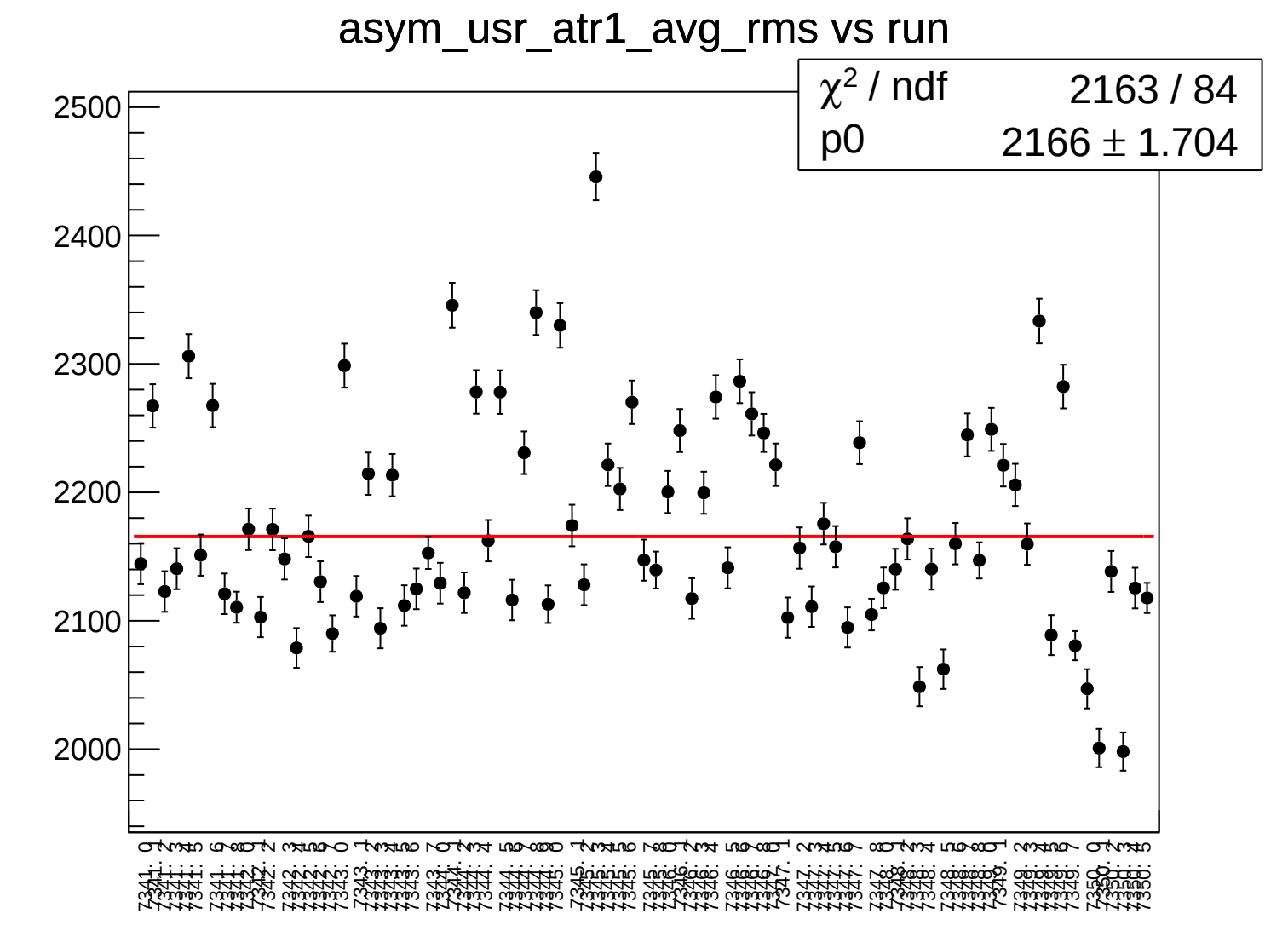

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.94 / 84
p0 −681.7 ± 1590
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −115
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

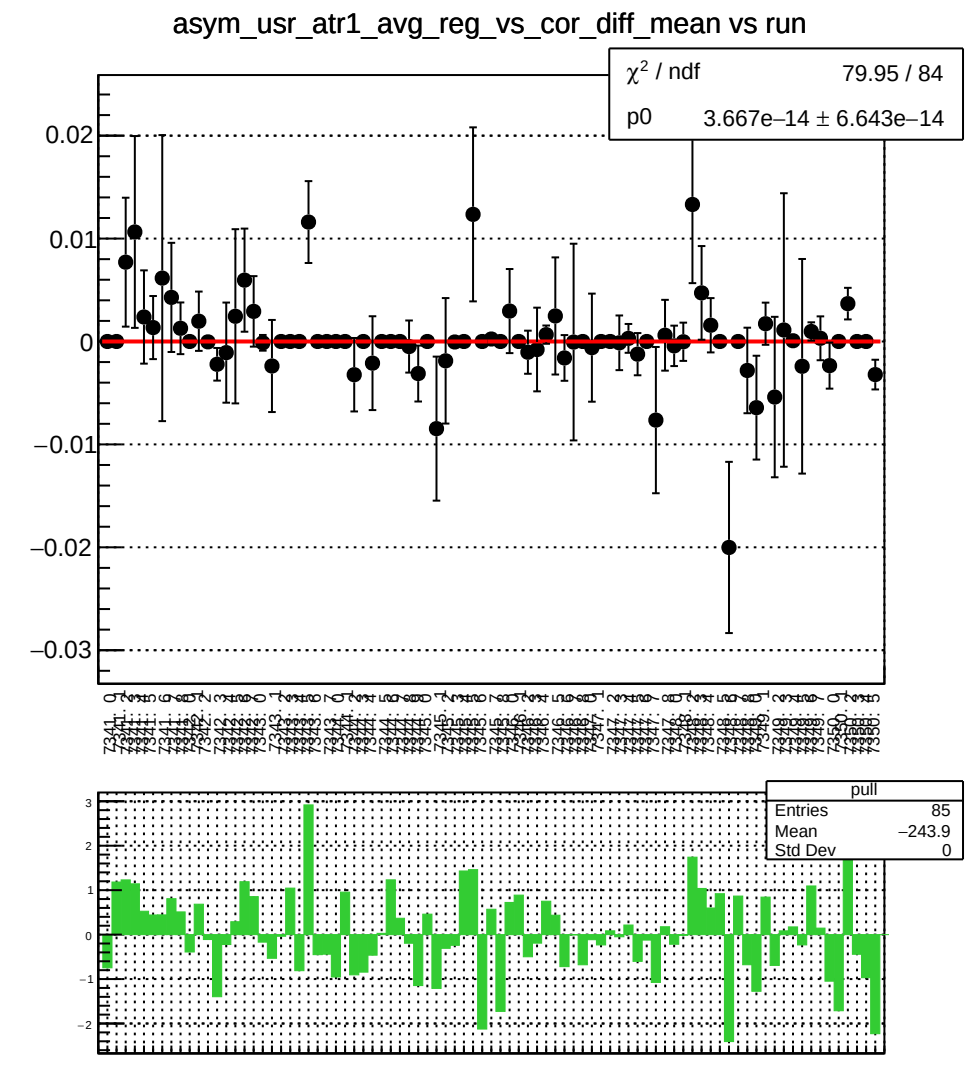

pull1D
Entries 85
Mean 0.02112
Std Dev 0.9324
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

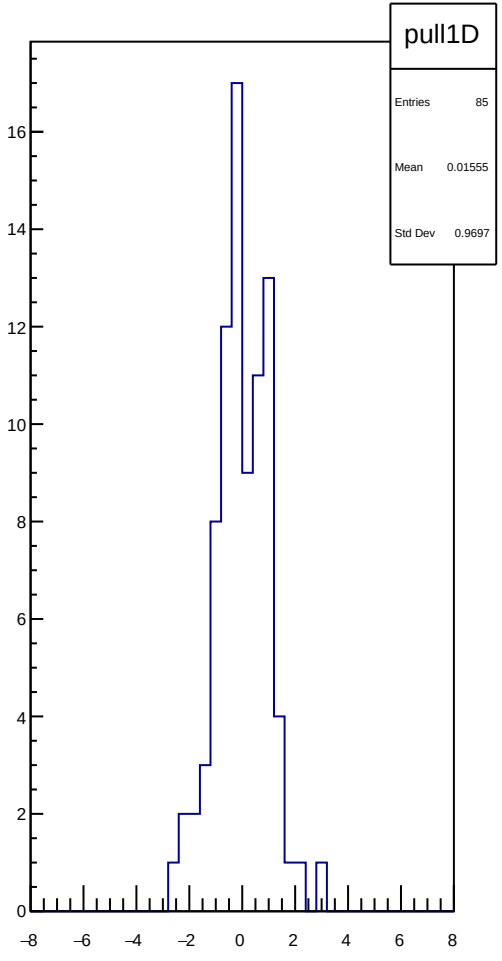

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 7337 / 84
p0 1426 ± 1.124
1700
1600
1500
1400
1300
1200

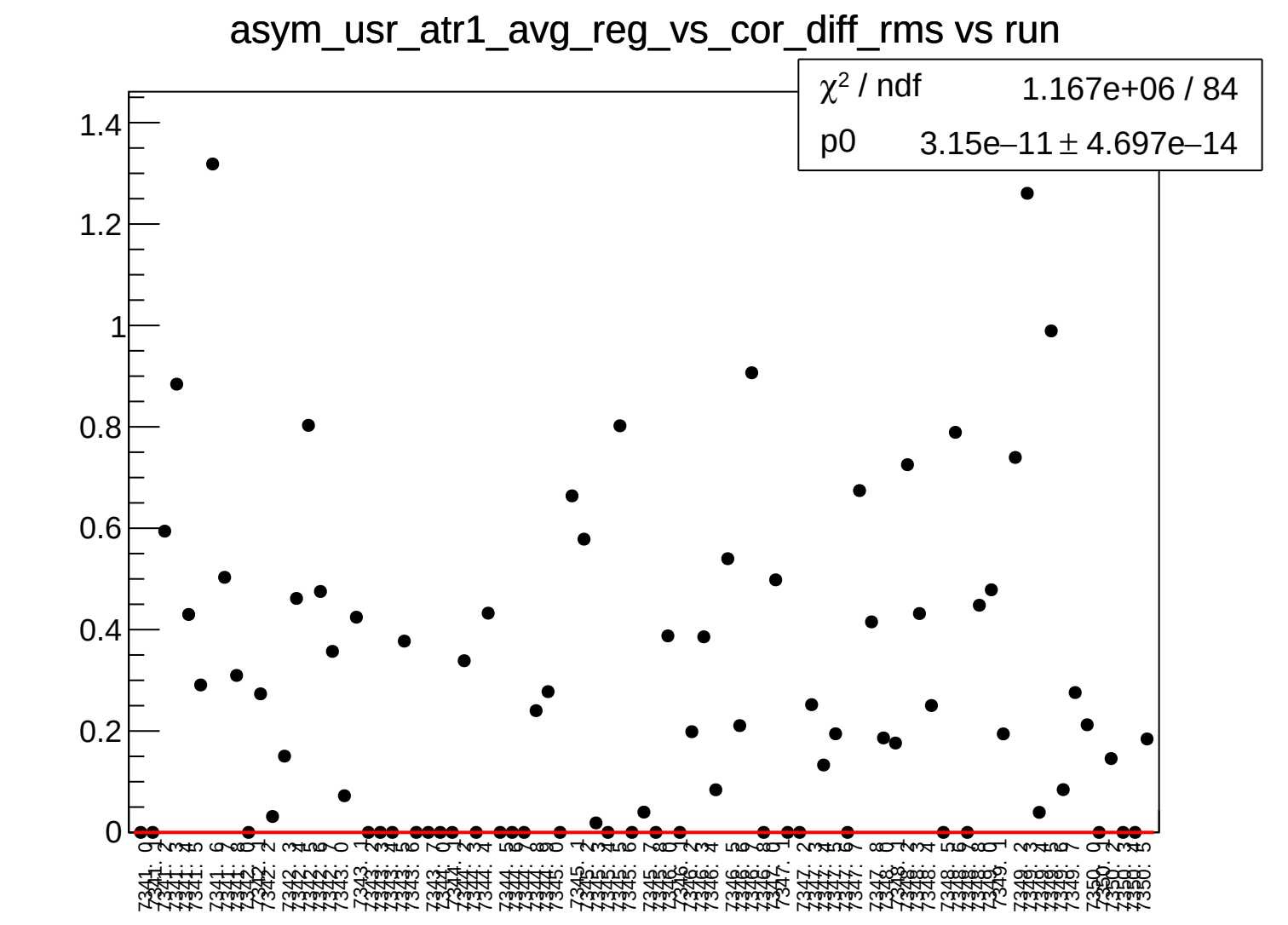

asym_usr_atr1_avg_mean vs run
×10^3
χ^2 / ndf 84.31 / 84
p0 4366 ± 2411
pull
Entries 85
Mean −88.51
Std Dev 0

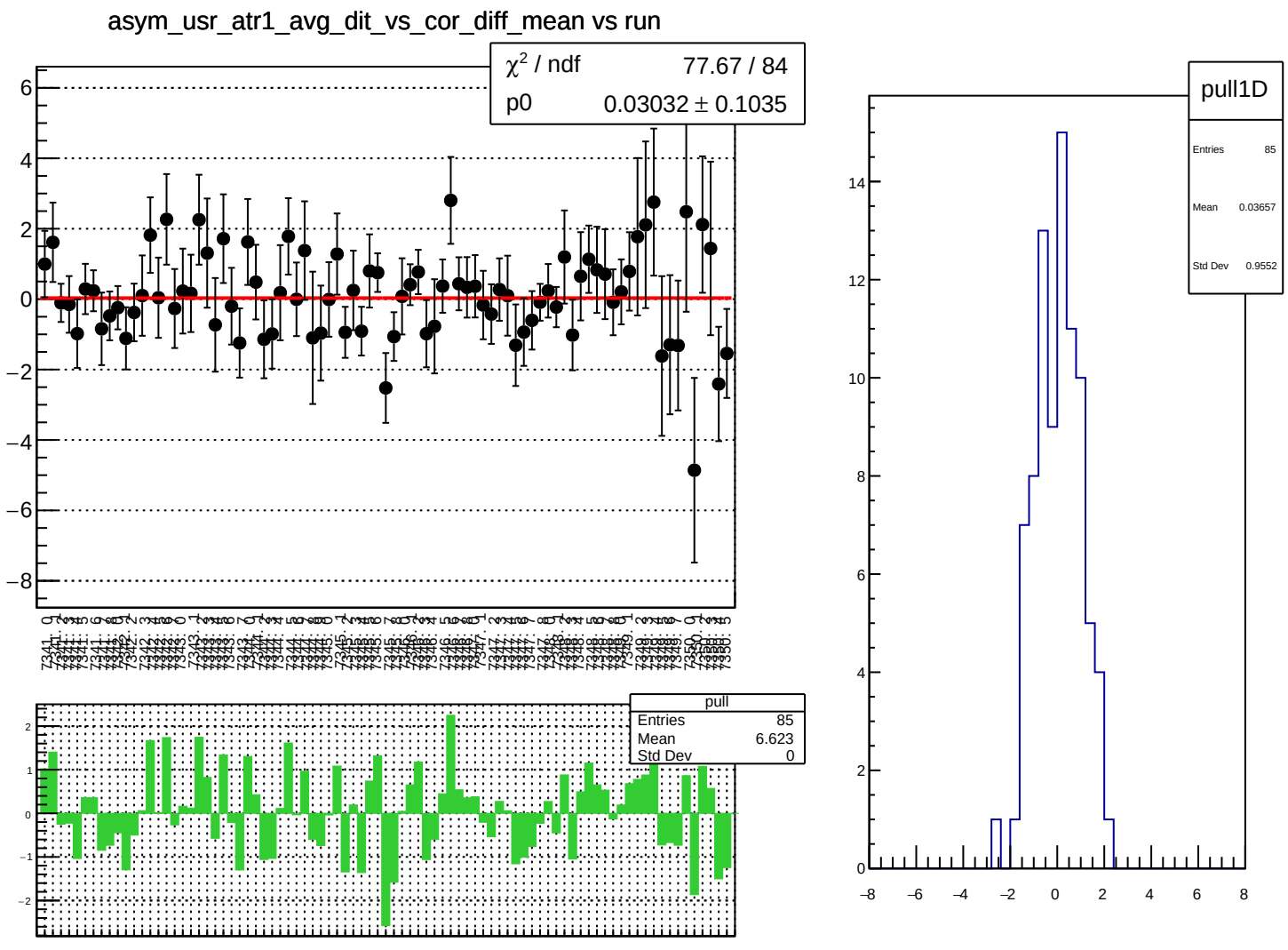

pull1D
Entries 85
Mean −0.01479
Std Dev 0.9958

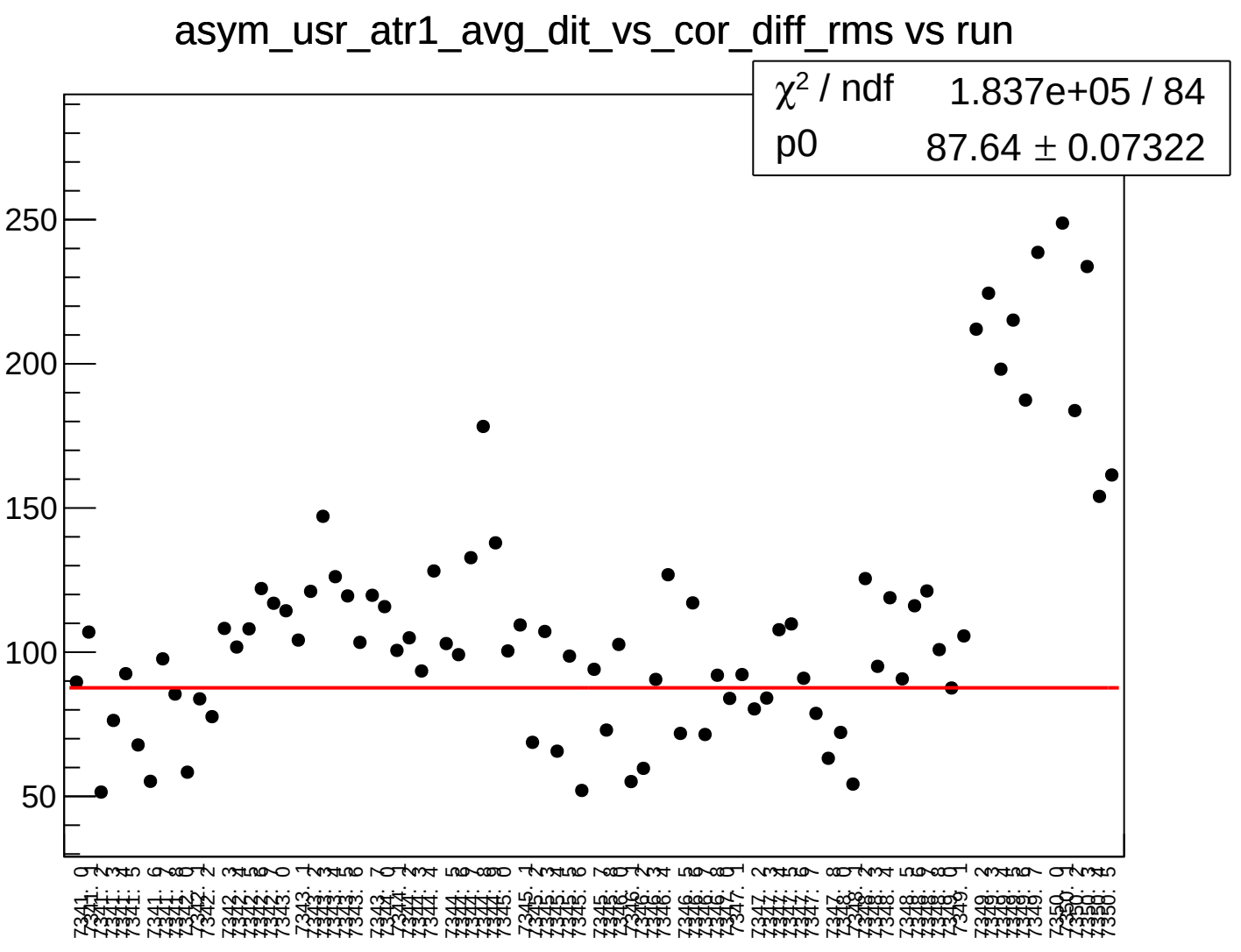

asym_usr_atr1_avg_rms vs run
χ² / ndf 2163 / 84
p0 2166 ± 1.704
2500
2400
2300
2200
2100
2000

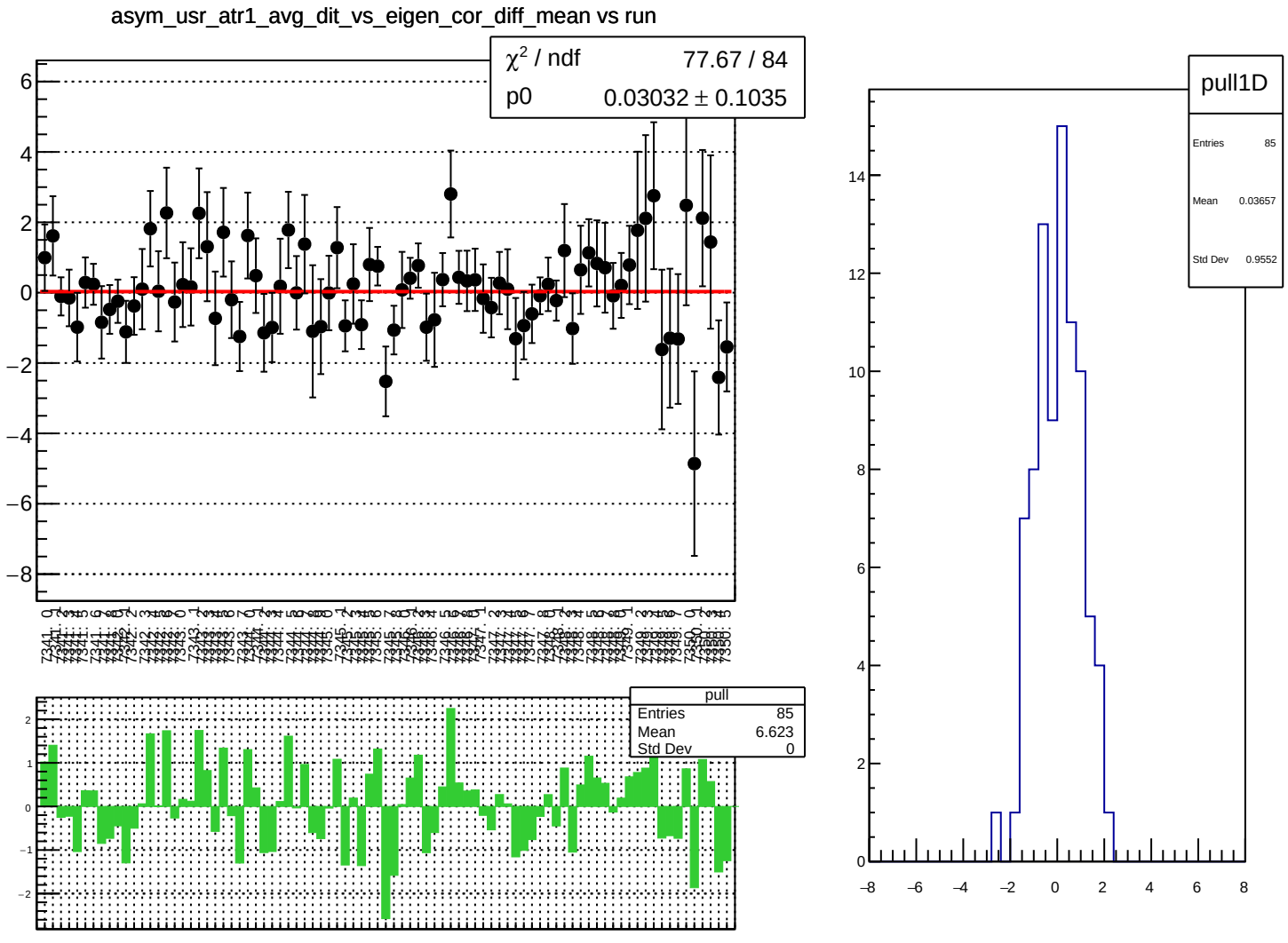

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.95 / 84
p0 3.667e−14 ± 6.643e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean −243.9
Std Dev 0
3
2
1
0
−1
−2

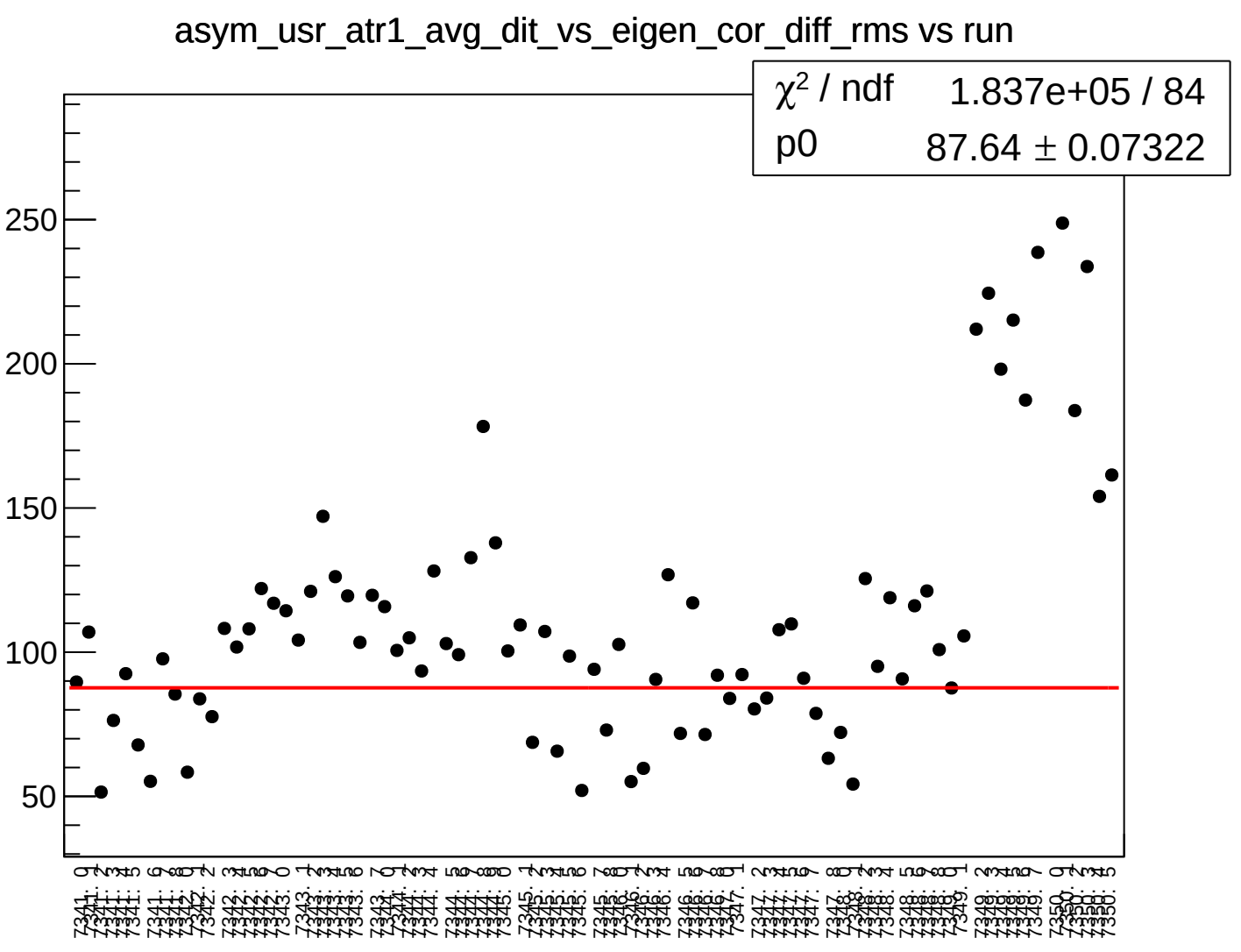

pull1D
Entries 85
Mean 0.01555
Std Dev 0.9697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

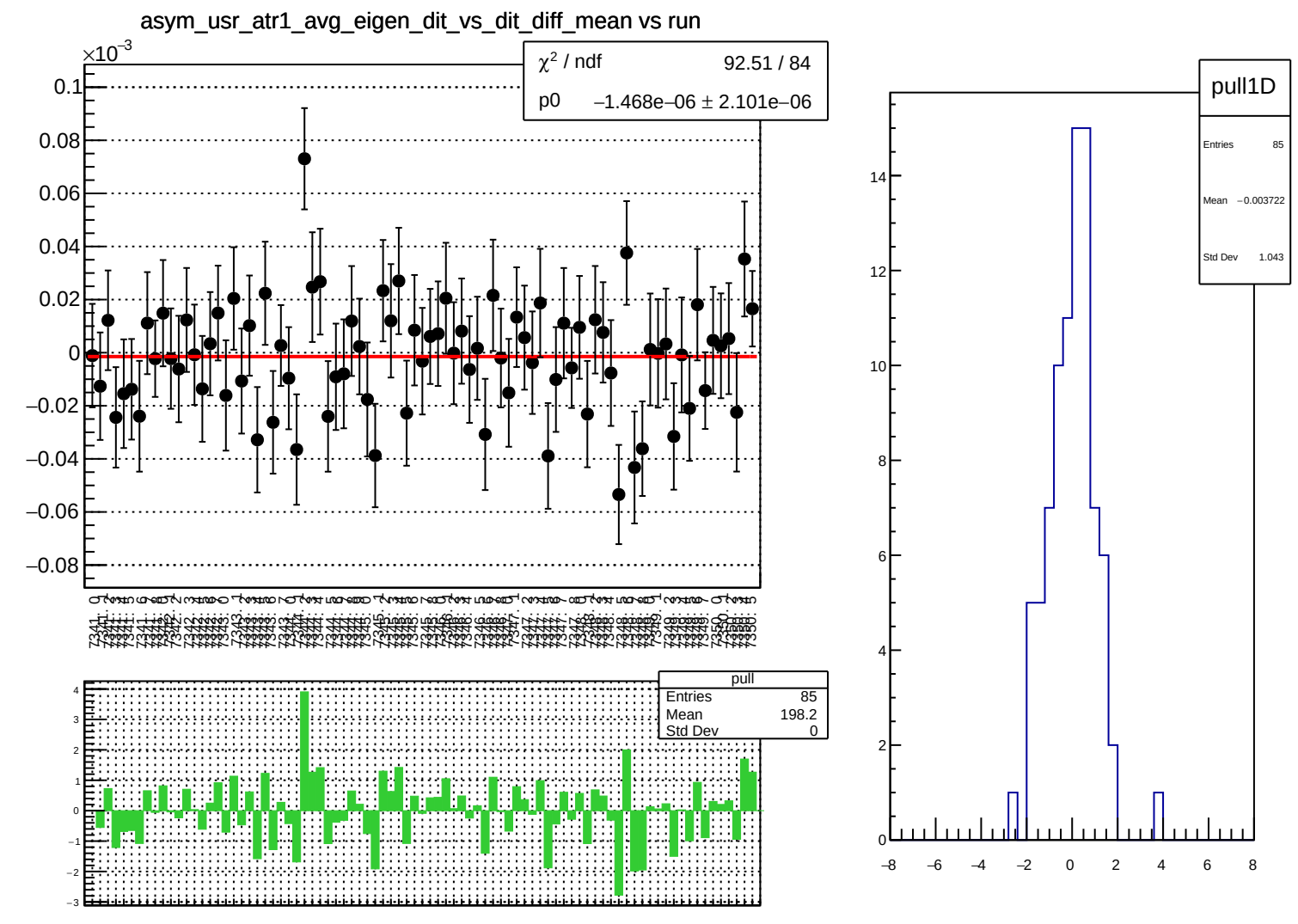

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.167e+06 / 84
p0 3.15e−11 ± 4.697e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

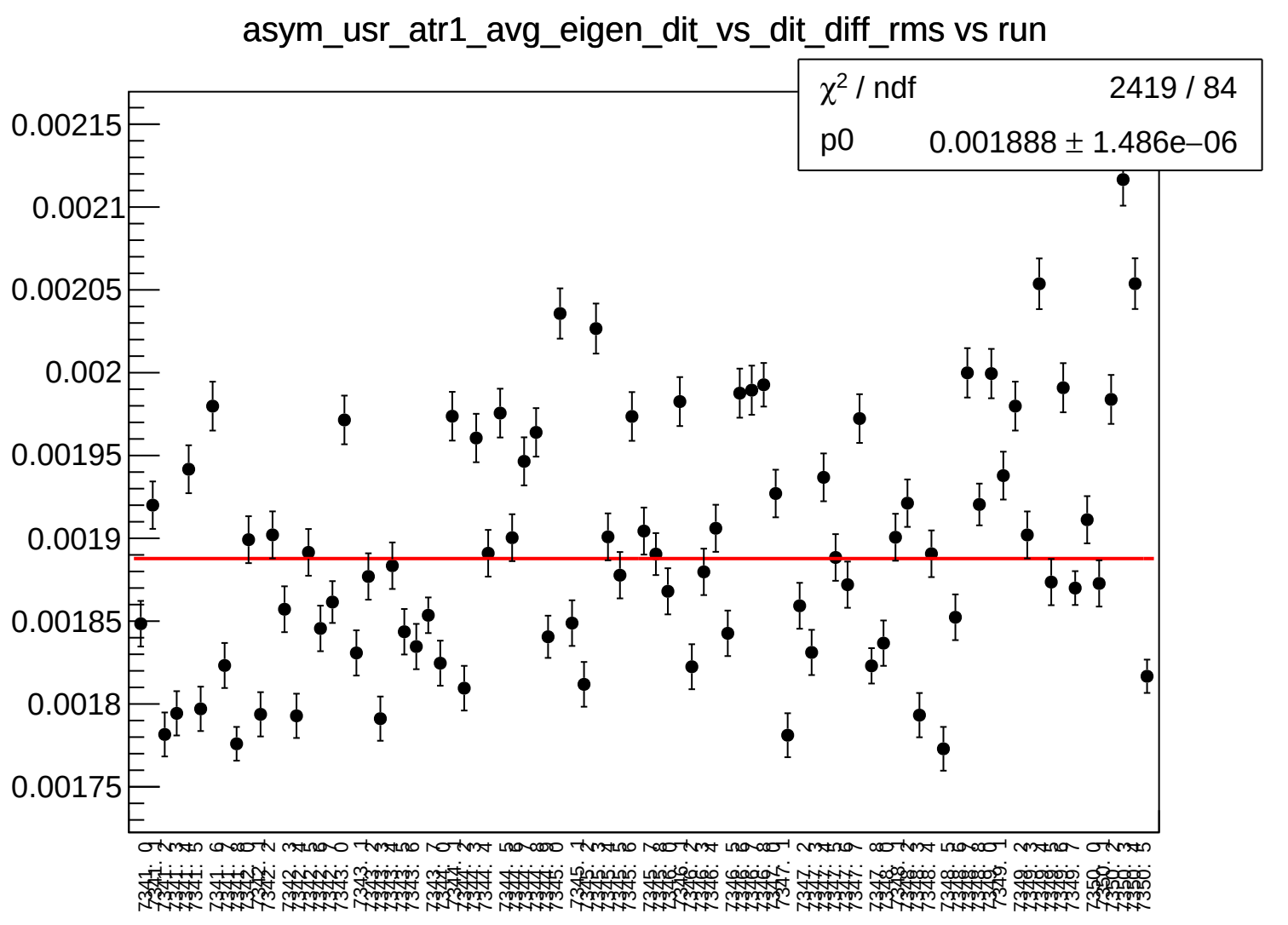

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.67 / 84
p0 0.03032 ± 0.1035
pull
Entries 85
Mean 6.623
Std Dev 0
pull1D
Entries 85
Mean 0.03657
Std Dev 0.9552

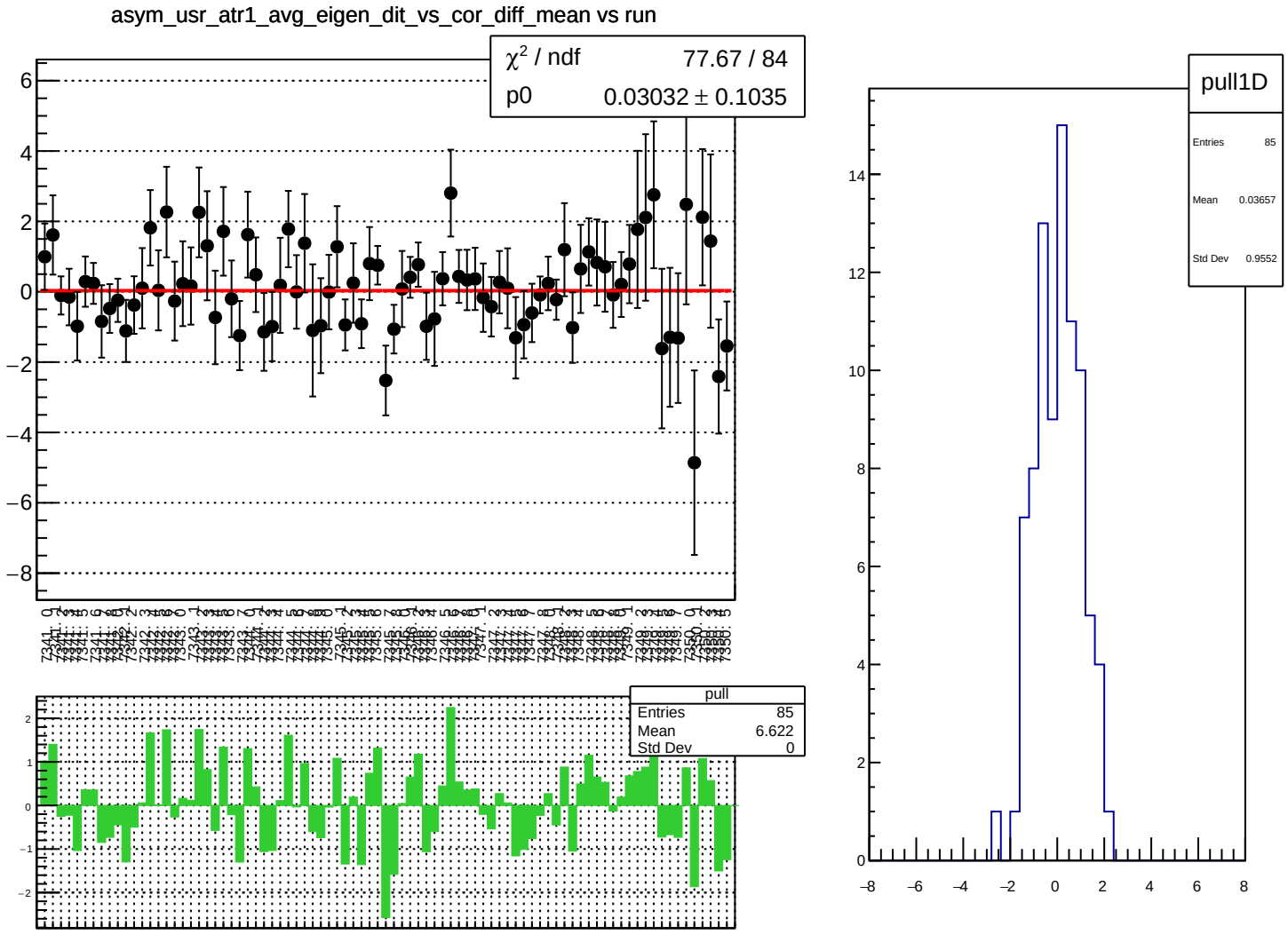

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.837e+05 / 84
p0 87.64 ± 0.07322
250
200
150
100
50

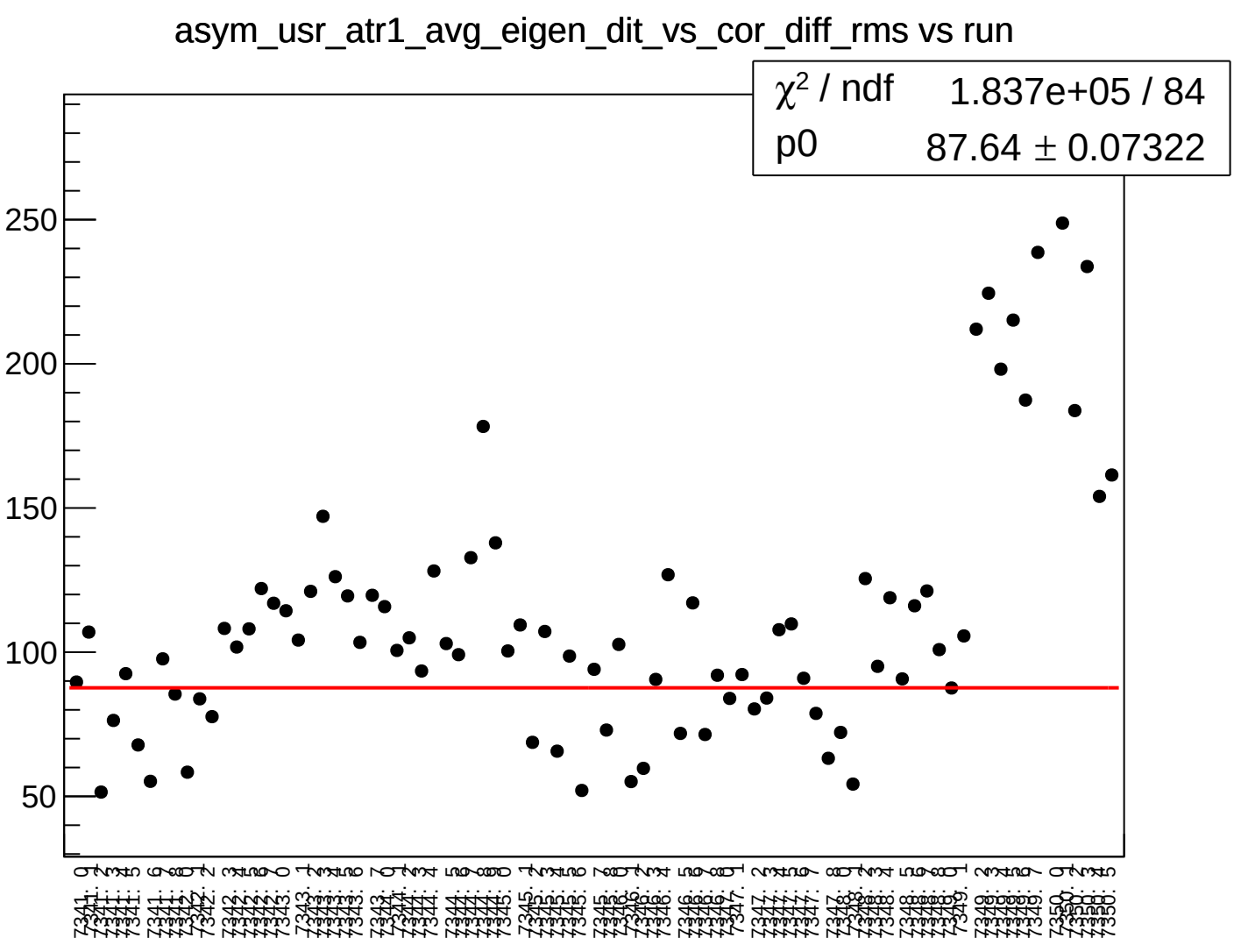

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.67 / 84
p0 0.03032 ± 0.1035
pull
Entries 85
Mean 6.623
Std Dev 0
pull1D
Entries 85
Mean 0.03657
Std Dev 0.9552

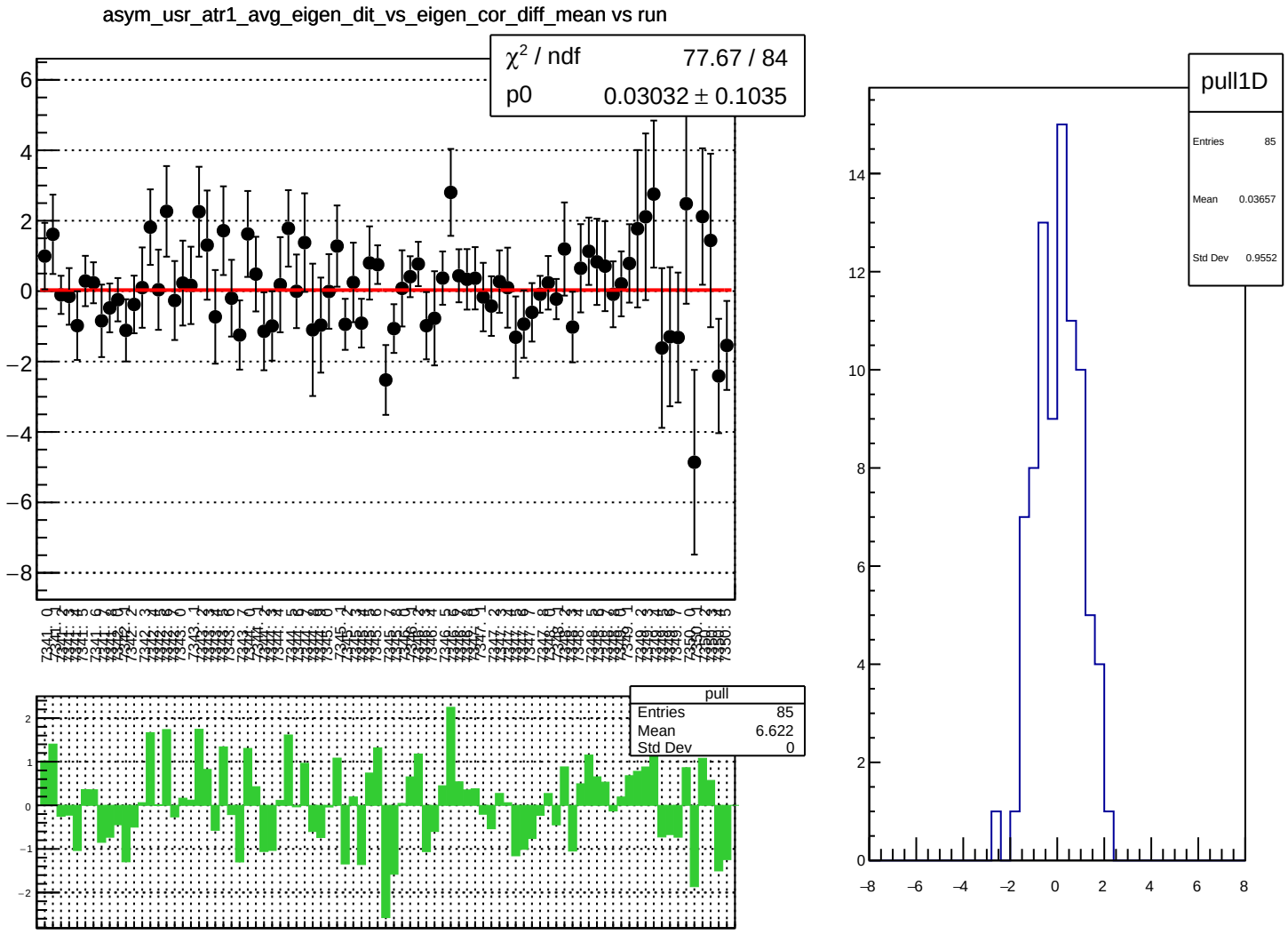

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.837e+05 / 84
p0 87.64 ± 0.07322
250
200
150
100
50

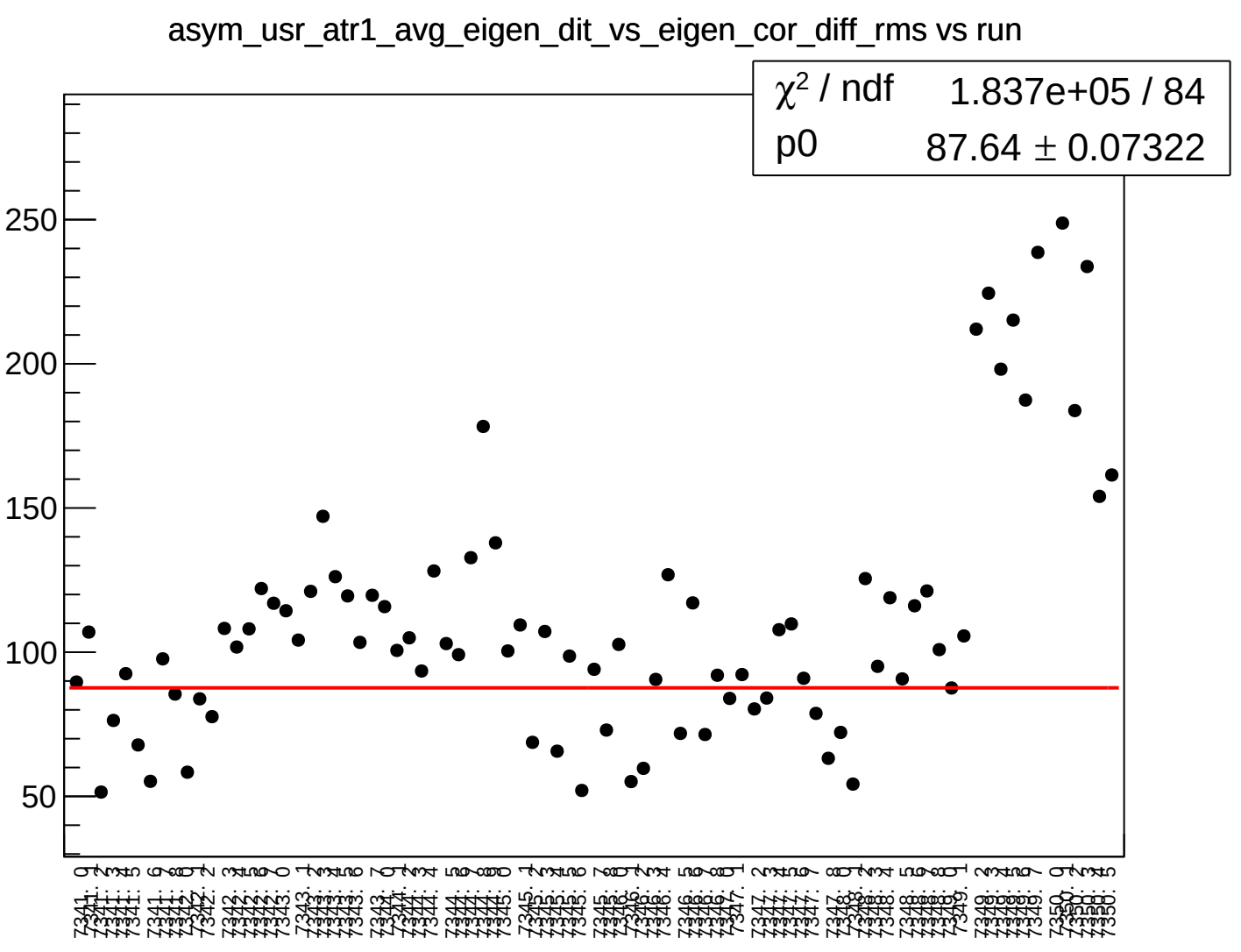

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.51 / 84
p0 −1.468e−06 ± 2.101e−06
pull
Entries 85
Mean 198.2
Std Dev 0
pull1D
Entries 85
Mean −0.003722
Std Dev 1.043

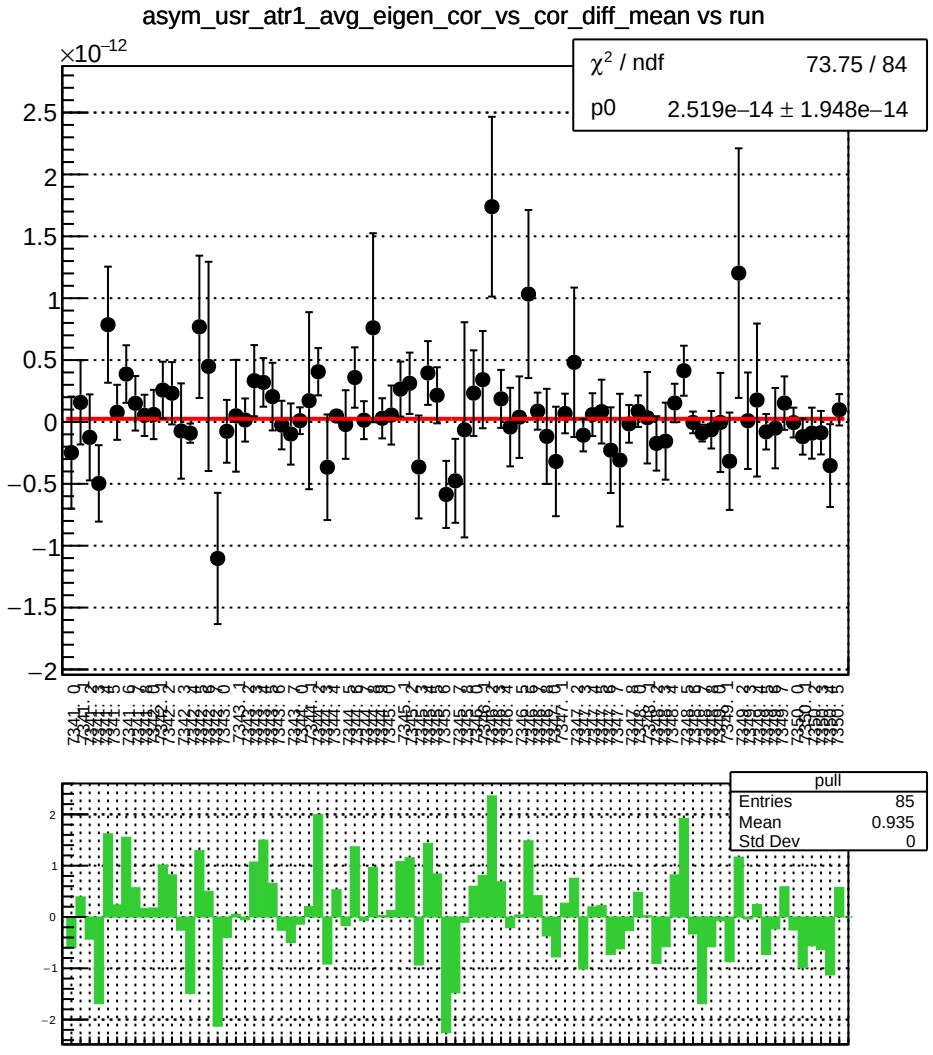

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2419 / 84
p0 0.001888 ± 1.486e−06
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175

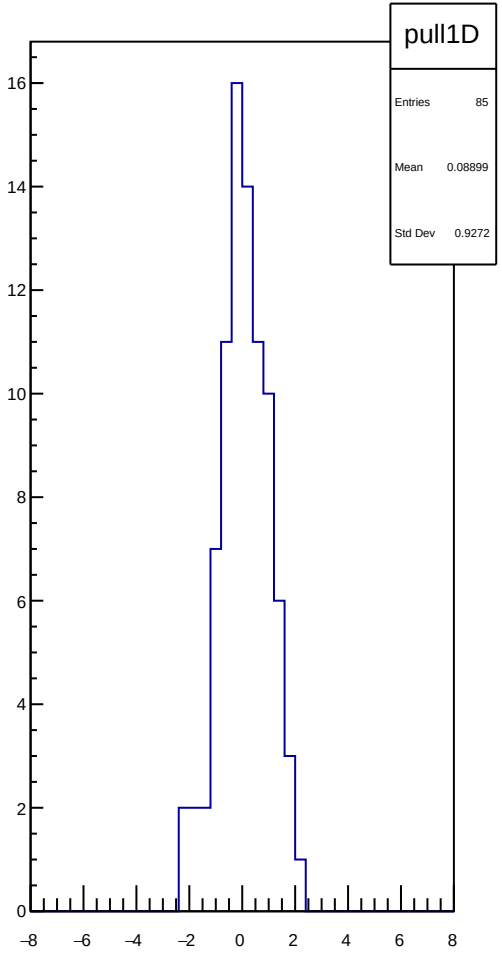

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.67 / 84
p0 0.03032 ± 0.1035
pull
Entries 85
Mean 6.622
Std Dev 0
pull1D
Entries 85
Mean 0.03657
Std Dev 0.9552

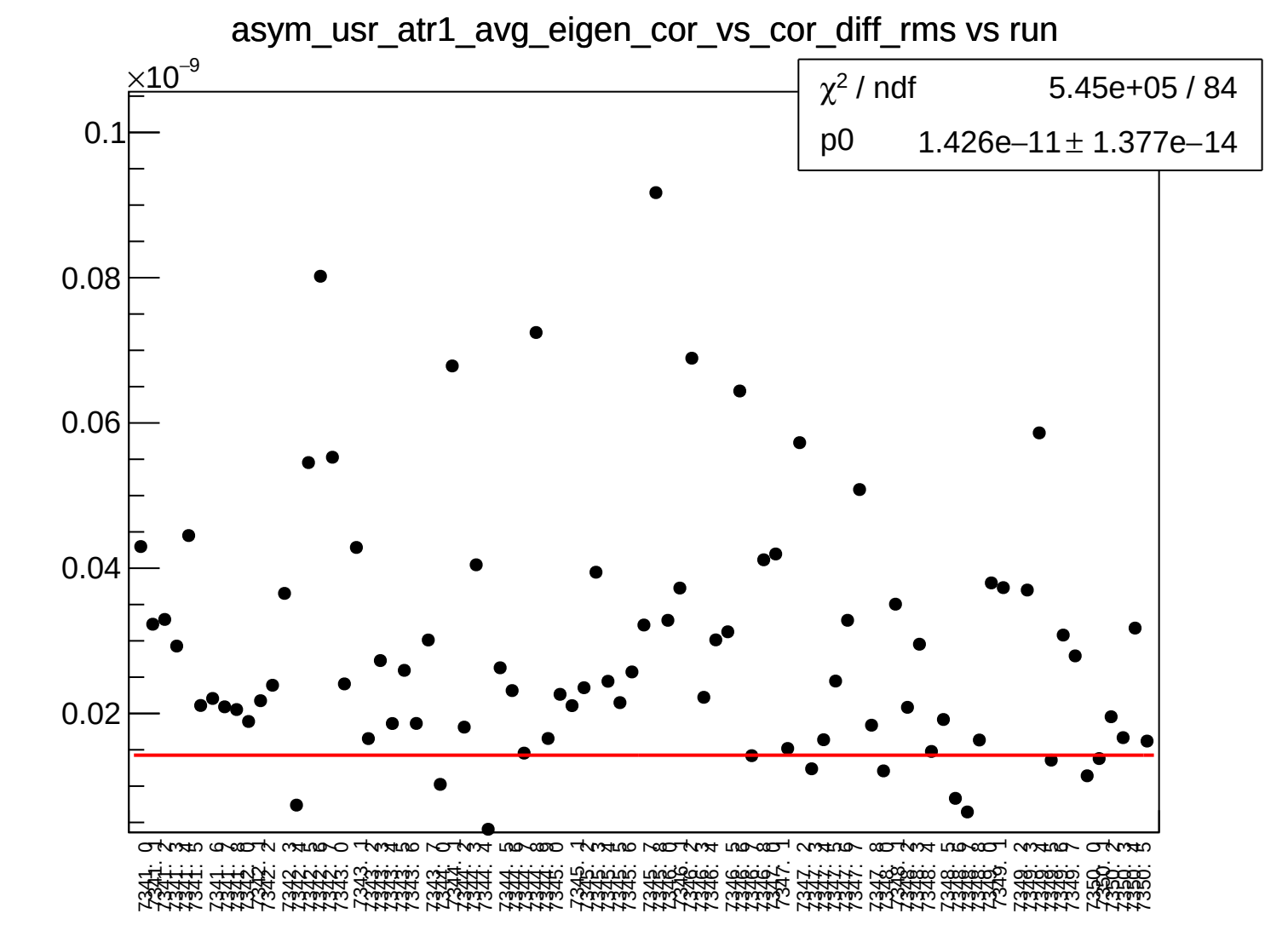

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.837e+05 / 84
p0 87.64 ± 0.07322
250
200
150
100
50

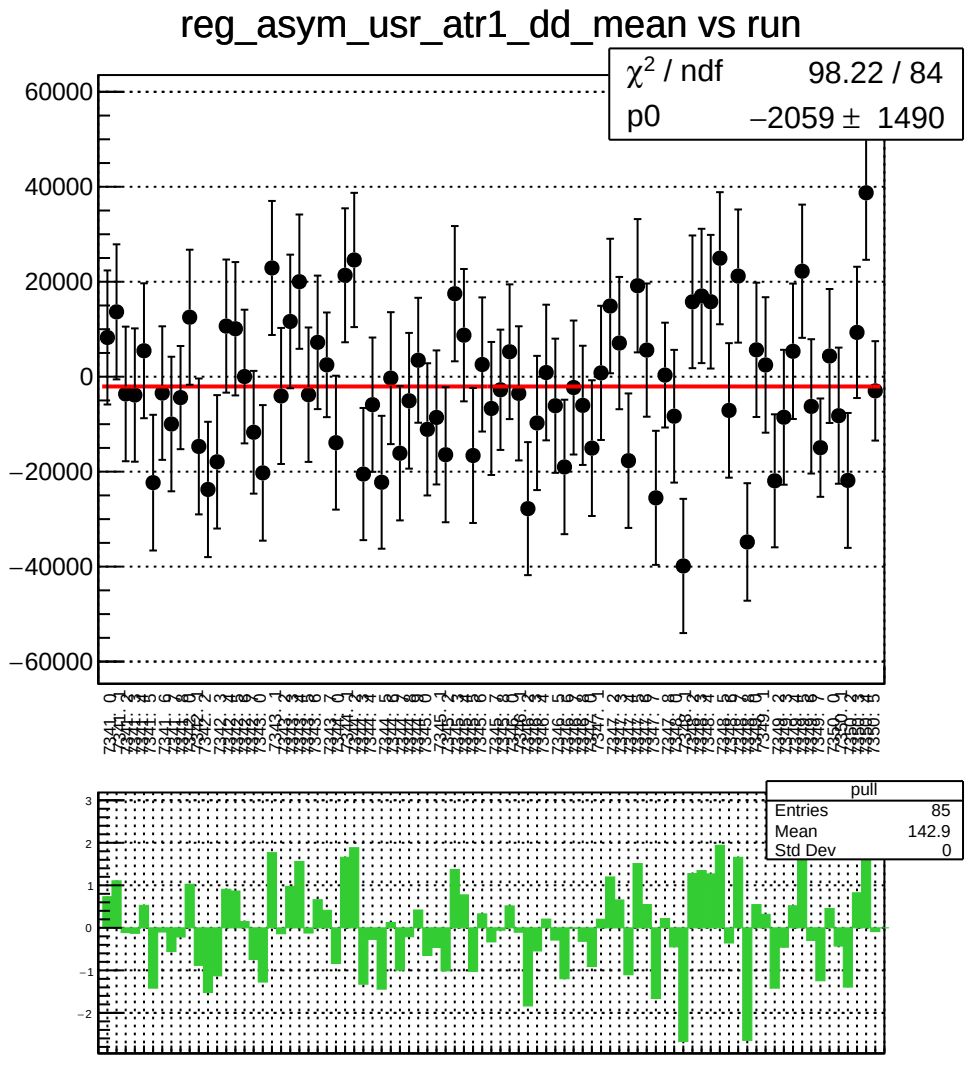

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.67 / 84
p0 0.03032 ± 0.1035
pull
Entries 85
Mean 6.622
Std Dev 0
pull1D
Entries 85
Mean 0.03657
Std Dev 0.9552

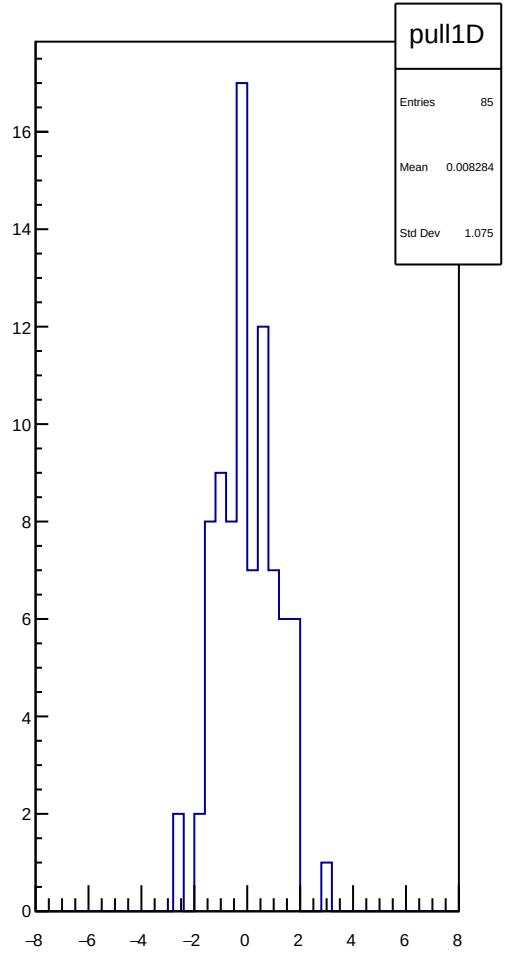

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.837e+05 / 84
p0 87.64 ± 0.07322
250
200
150
100
50

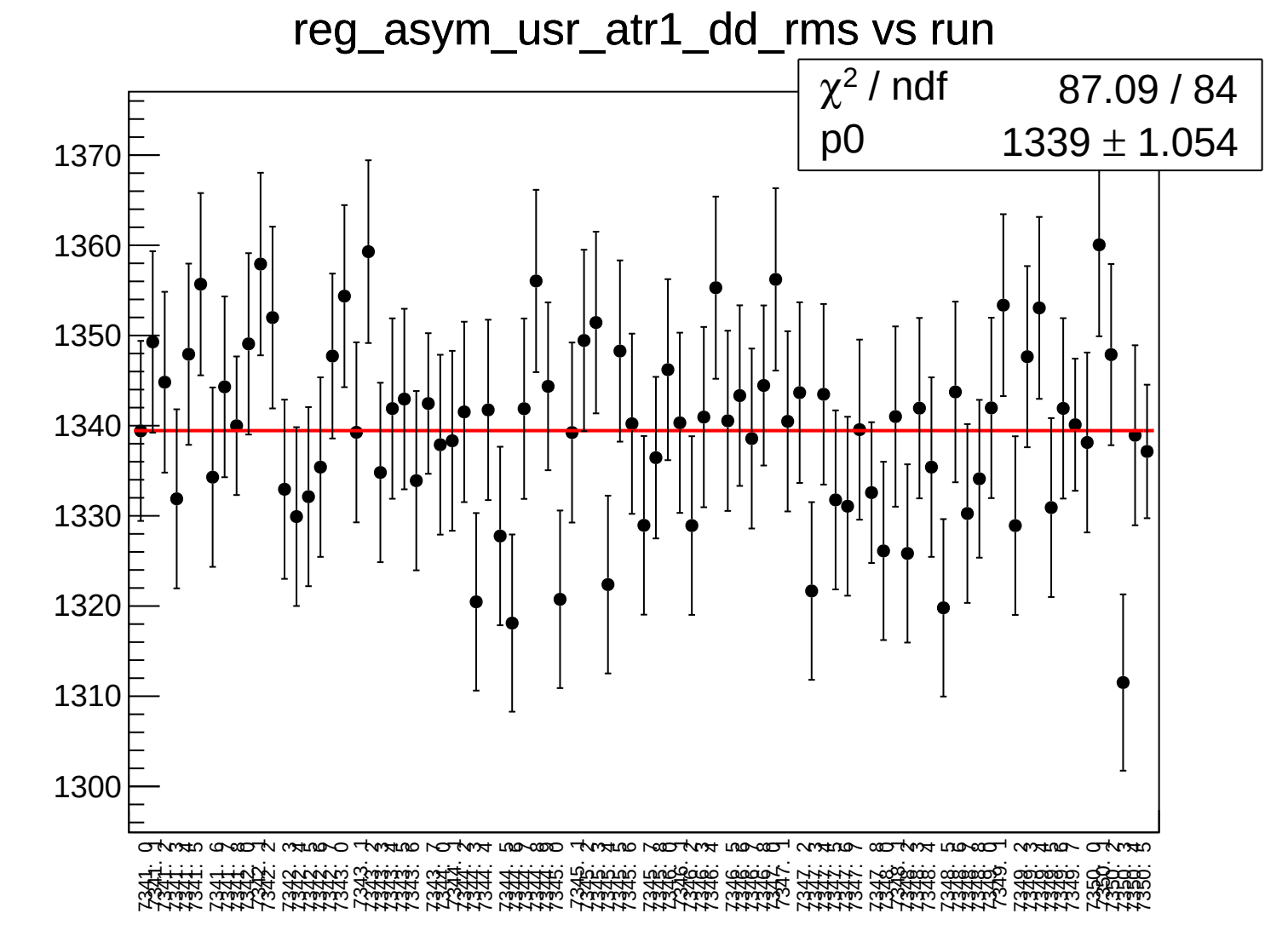

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.75 / 84
p0 2.519e−14 ± 1.948e−14
pull
Entries 85
Mean 0.935
Std Dev 0

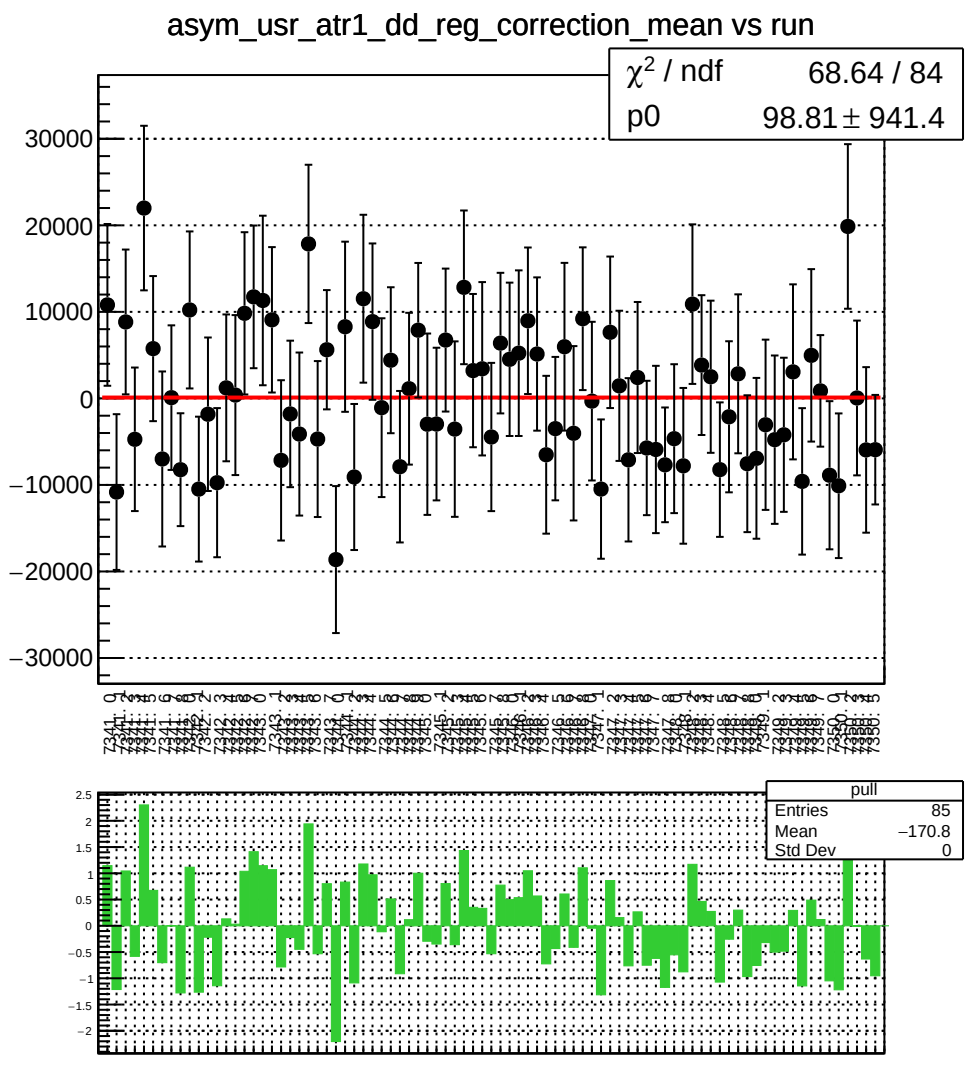

pull1D
Entries 85
Mean 0.08899
Std Dev 0.9272

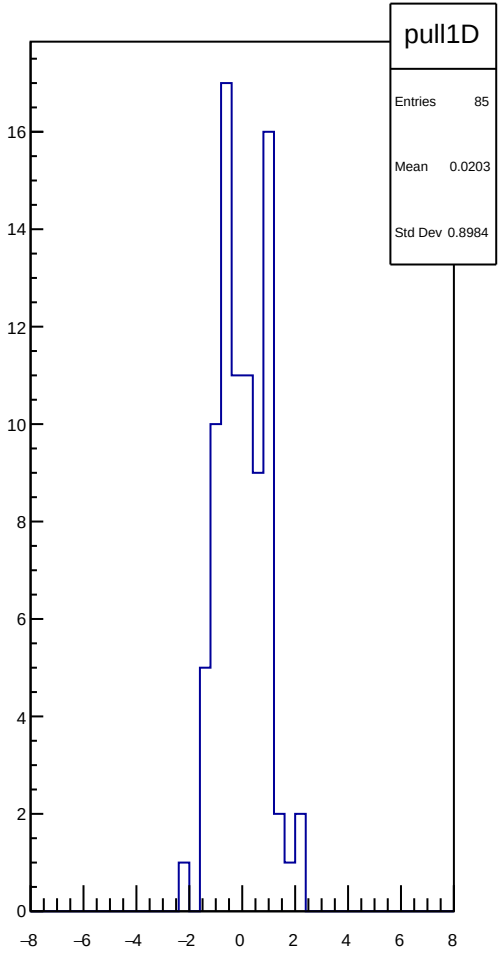

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.45e+05 / 84
p0 1.426e−11 ± 1.377e−14

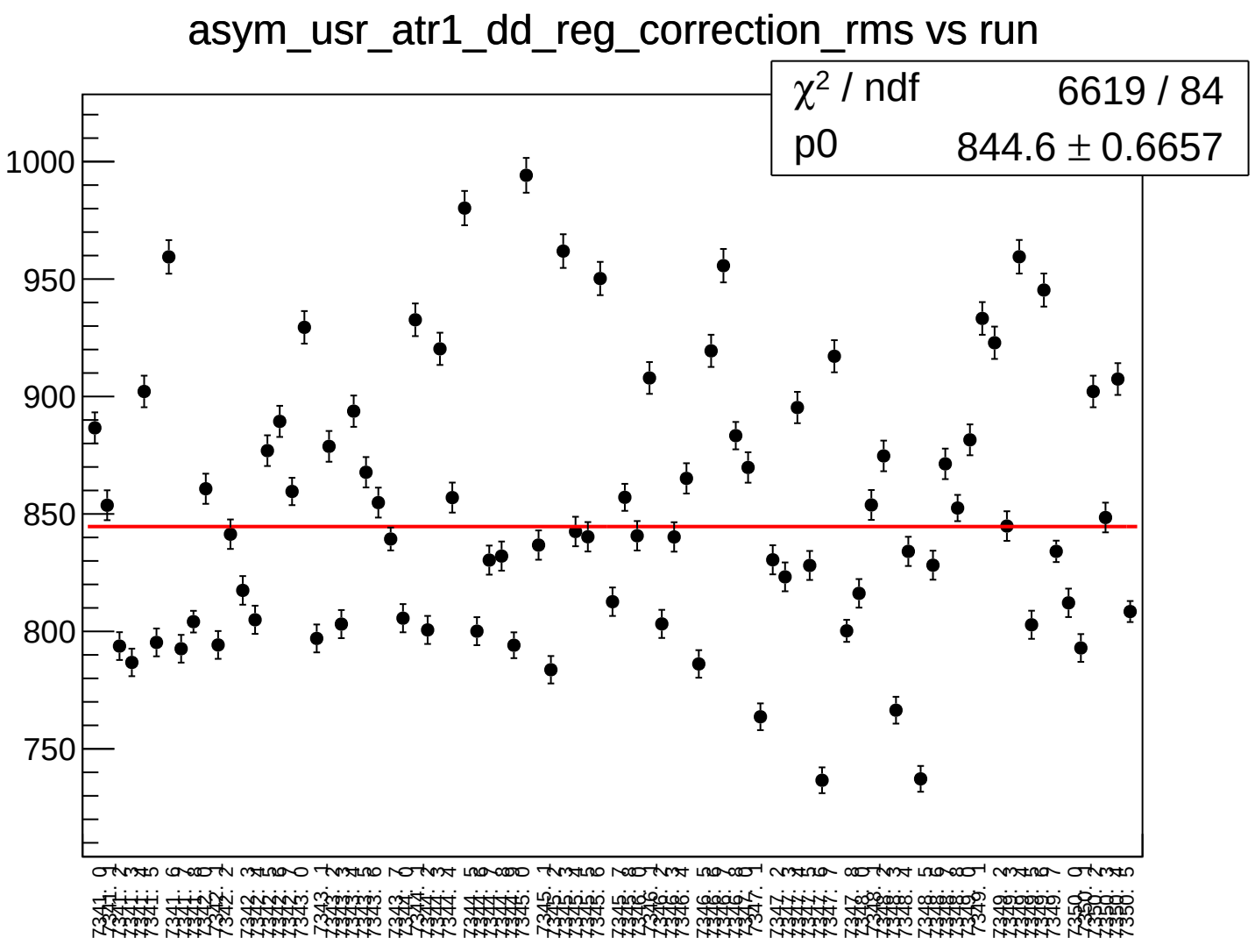

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.22 / 84
p0 −2059 ± 1490
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 142.9
Std Dev 0
3
2
1
0
−1
−2

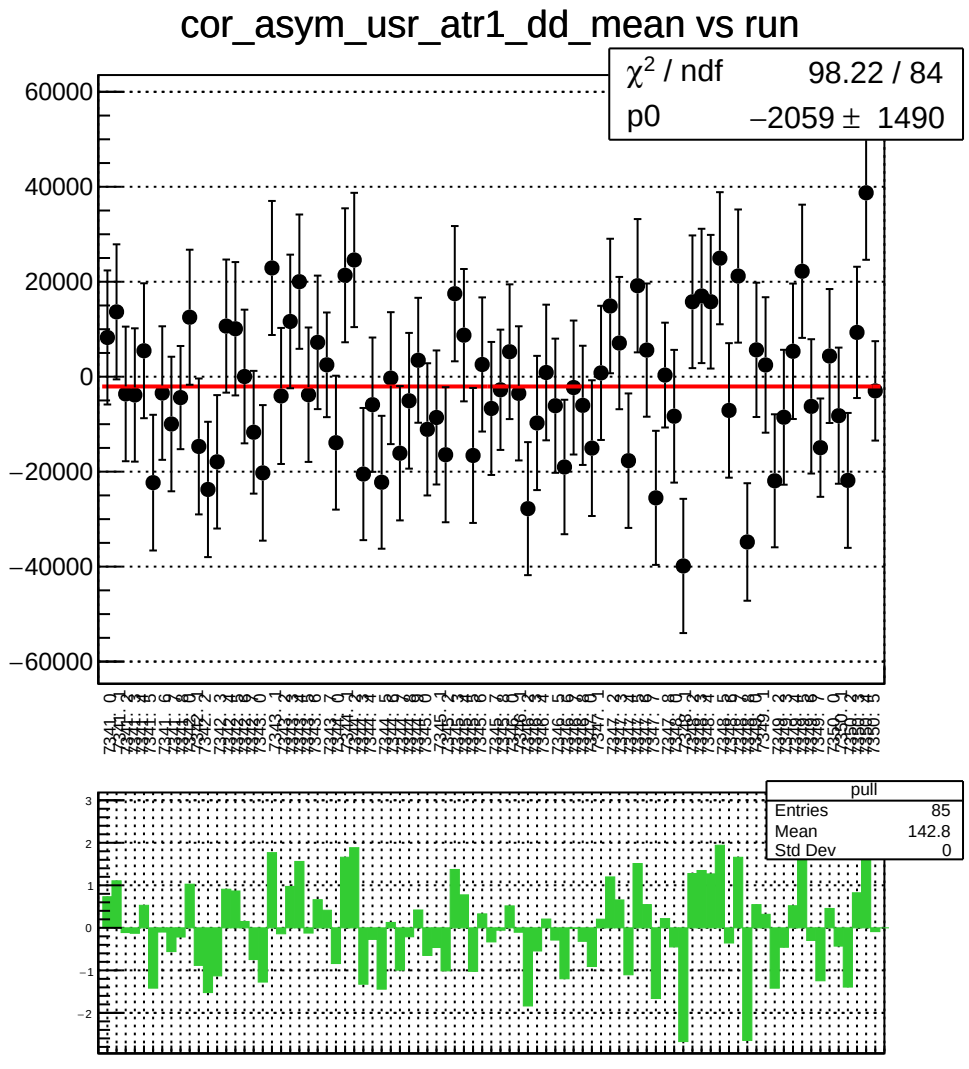

pull1D
Entries 85
Mean 0.008284
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

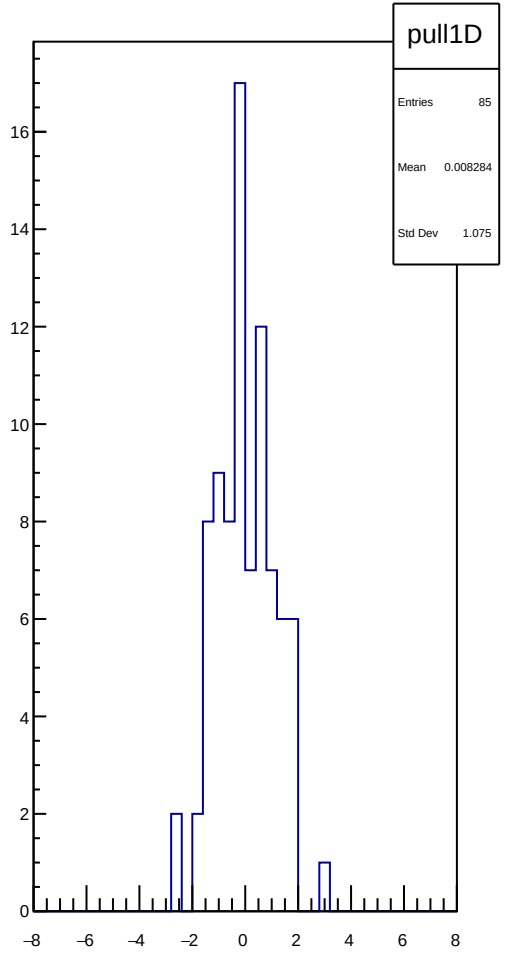

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 87.09 / 84
p0 1339 ± 1.054
1370
1360
1350
1340
1330
1320
1310
1300

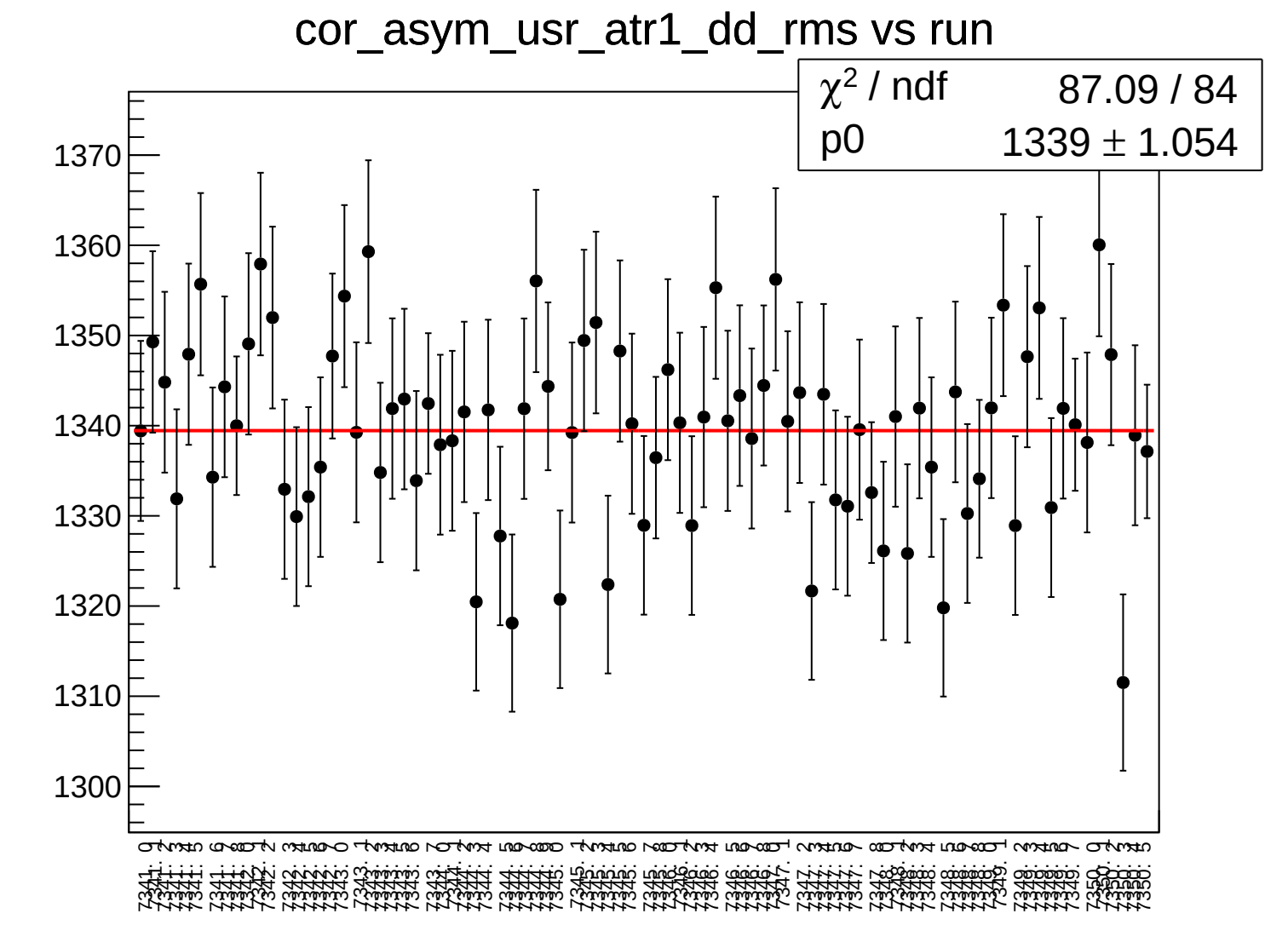

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 68.64 / 84
p0 98.81 ± 941.4
pull
Entries 85
Mean −170.8
Std Dev 0

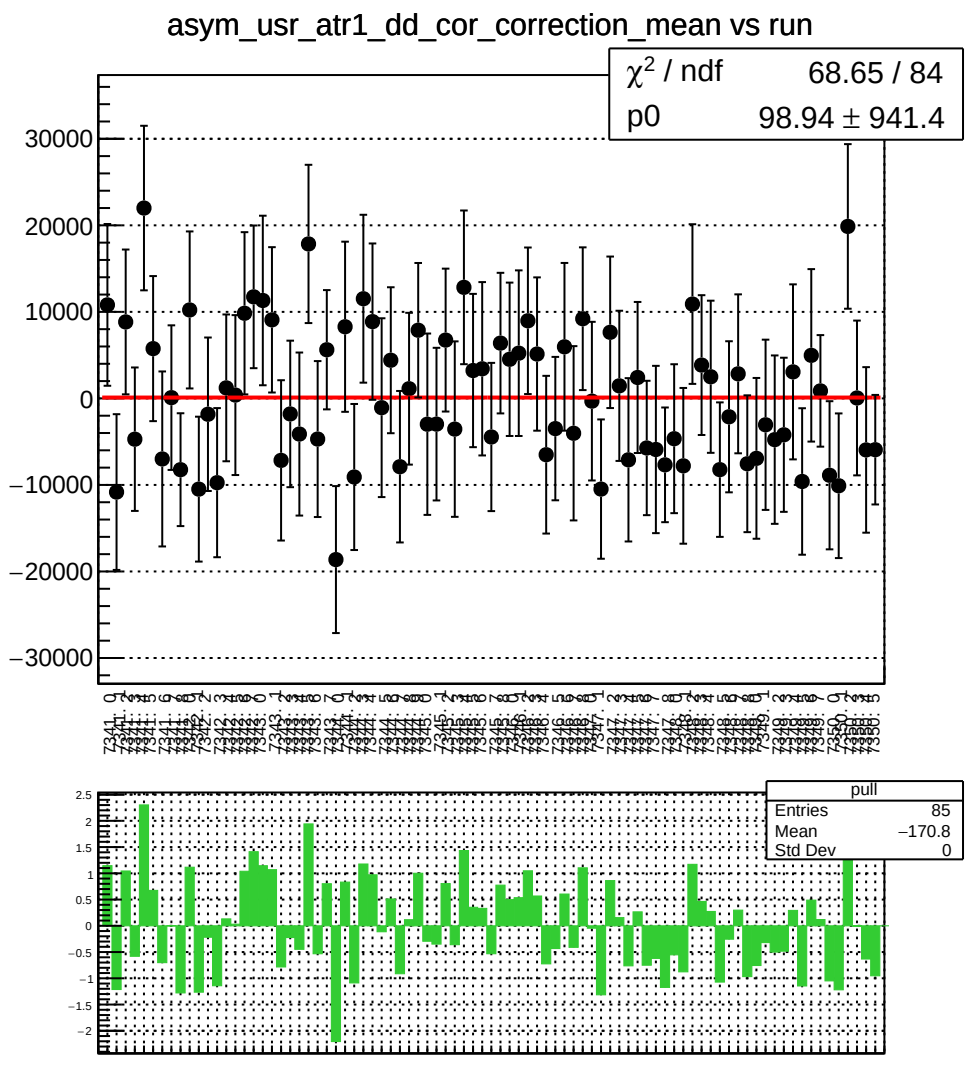

pull1D
Entries 85
Mean 0.0203
Std Dev 0.8984

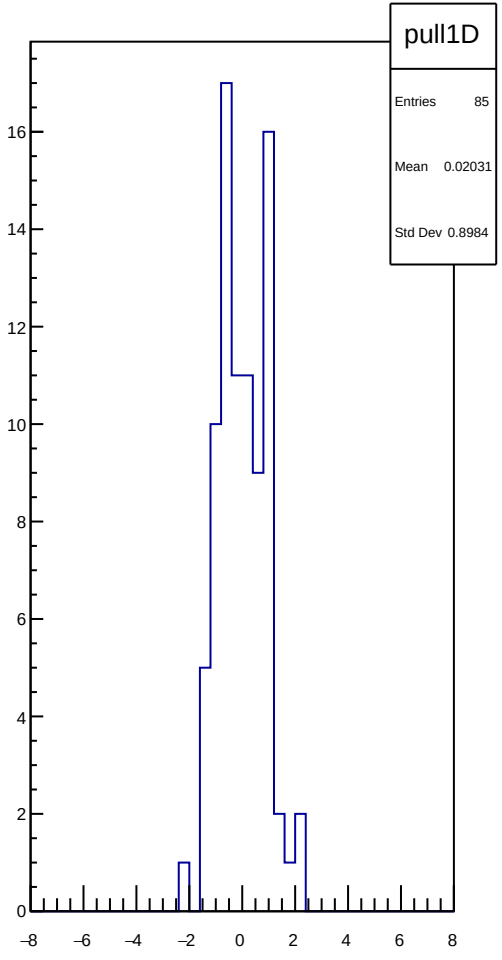

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 6619 / 84
p0 844.6 ± 0.6657
1000
950
900
850
800
750

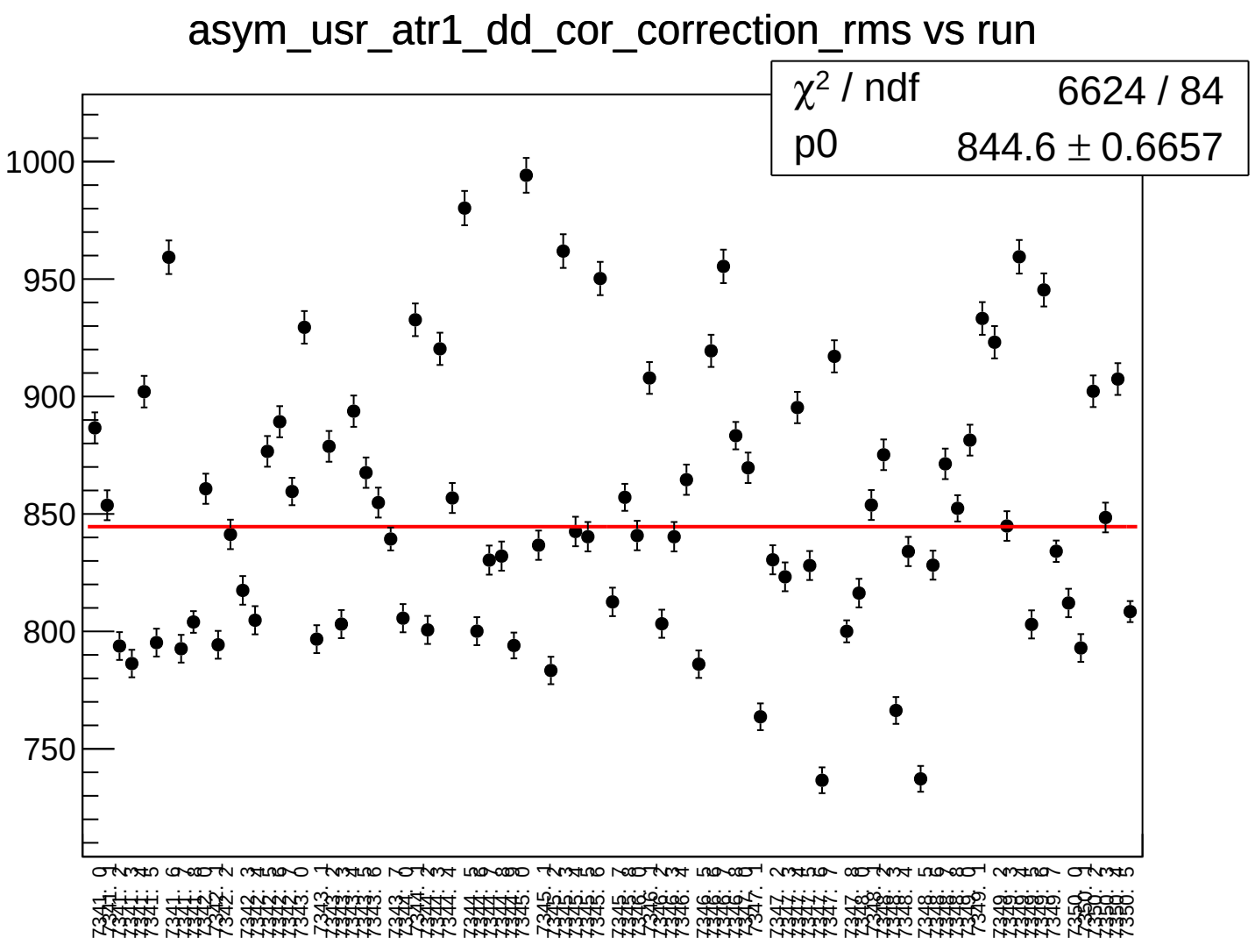

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.22 / 84
p0 −2059 ± 1490
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 142.8
Std Dev 0
3
2
1
0
−1
−2

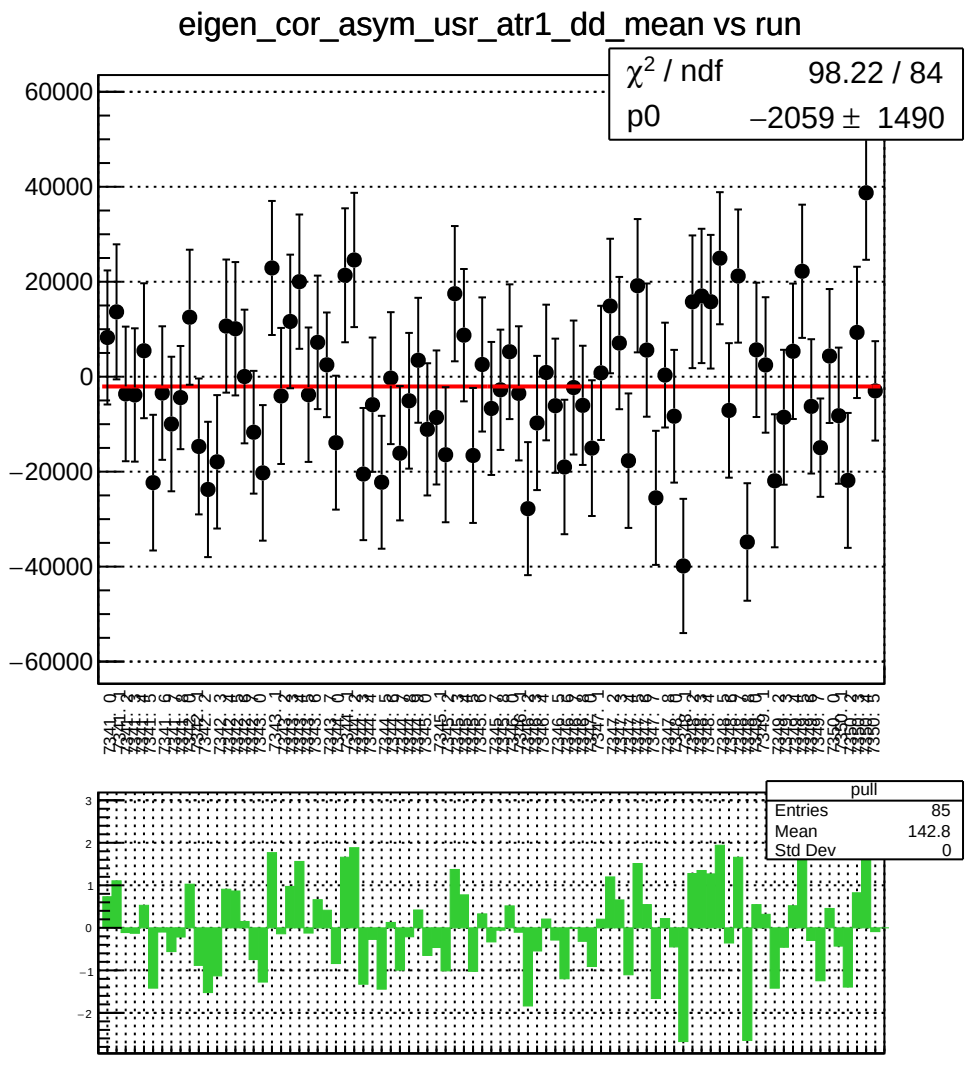

pull1D
Entries 85
Mean 0.008284
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

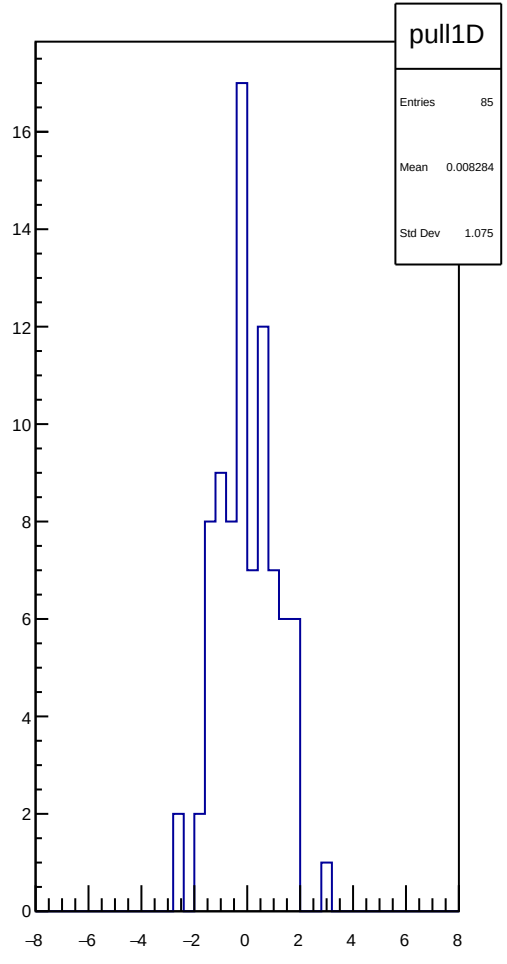

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 87.09 / 84
p0 1339 ± 1.054
1370
1360
1350
1340
1330
1320
1310
1300

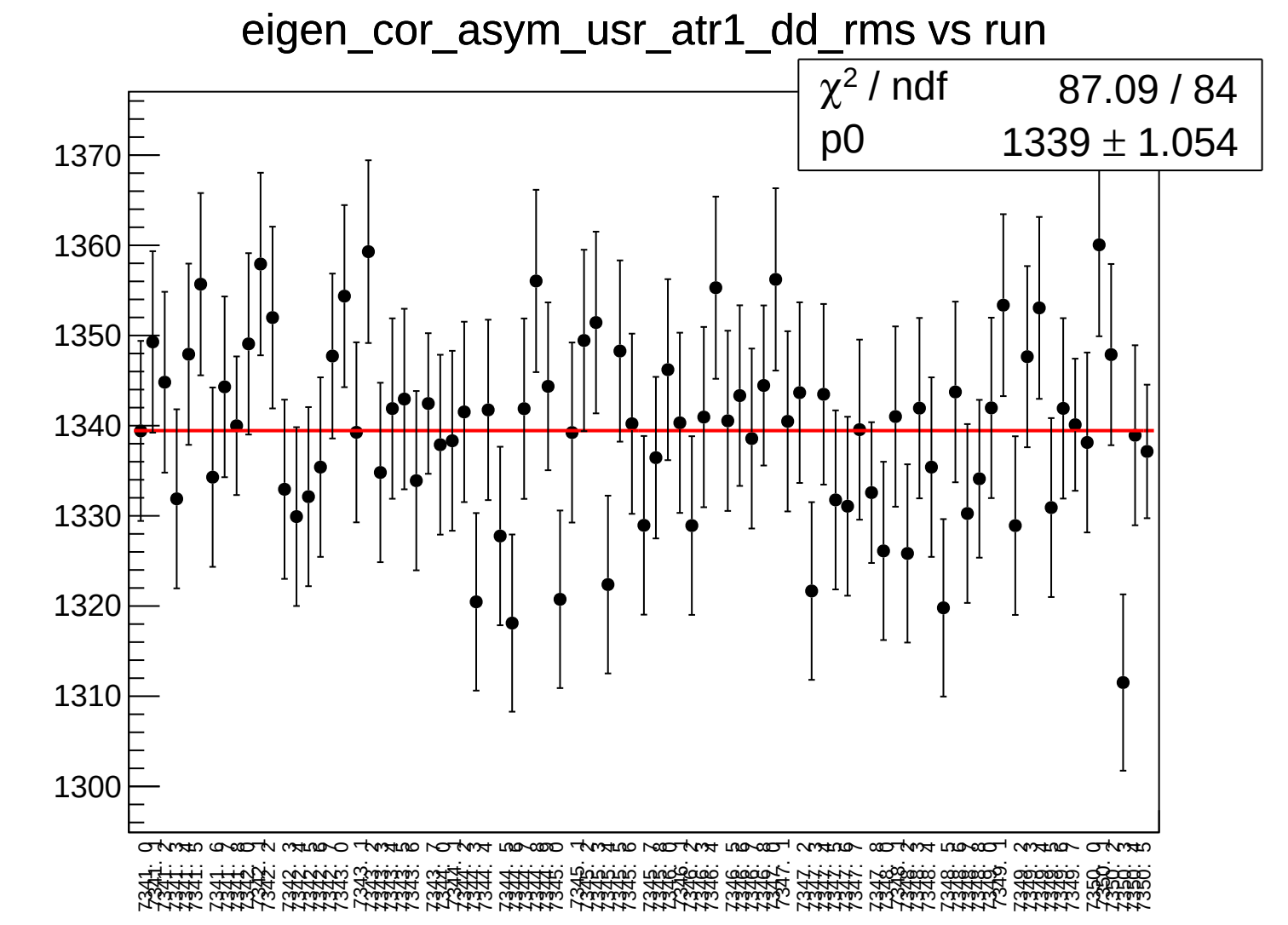

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 68.65 / 84
p0 98.94 ± 941.4
pull
Entries 85
Mean −170.8
Std Dev 0

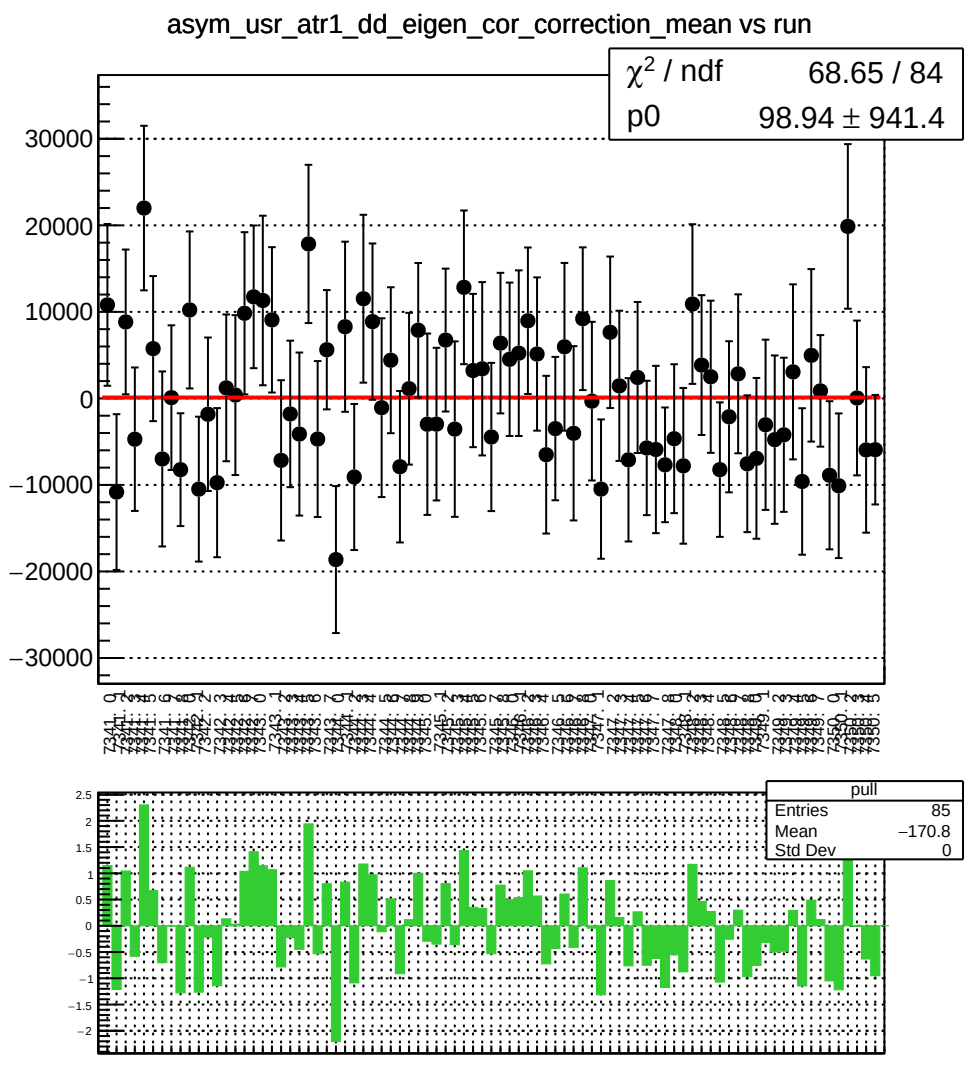

pull1D
Entries 85
Mean 0.02031
Std Dev 0.8984

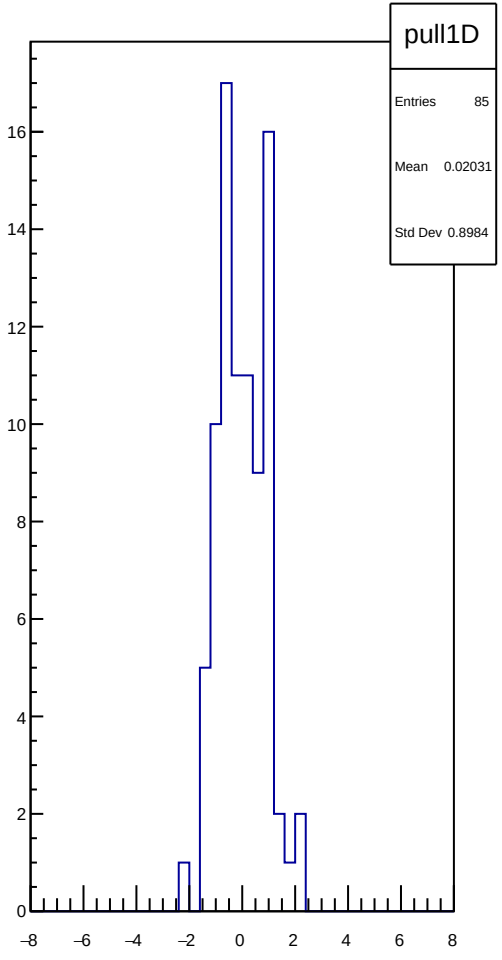

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 6624 / 84
p0 844.6 ± 0.6657
1000
950
900
850
800
750

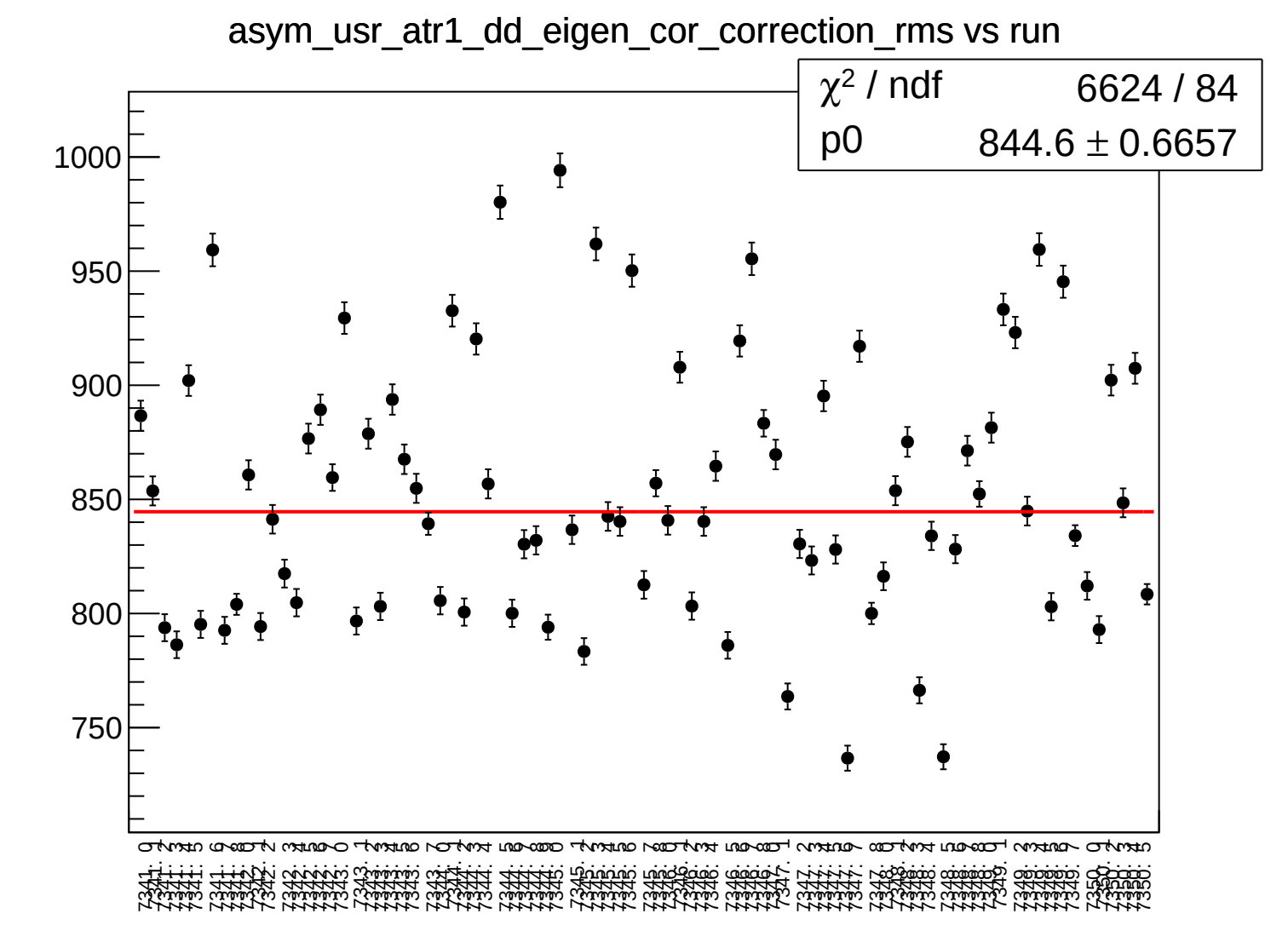

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.22 / 84
p0 −2059 ± 1490
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 142.8
Std Dev 0
3
2
1
0
−1
−2

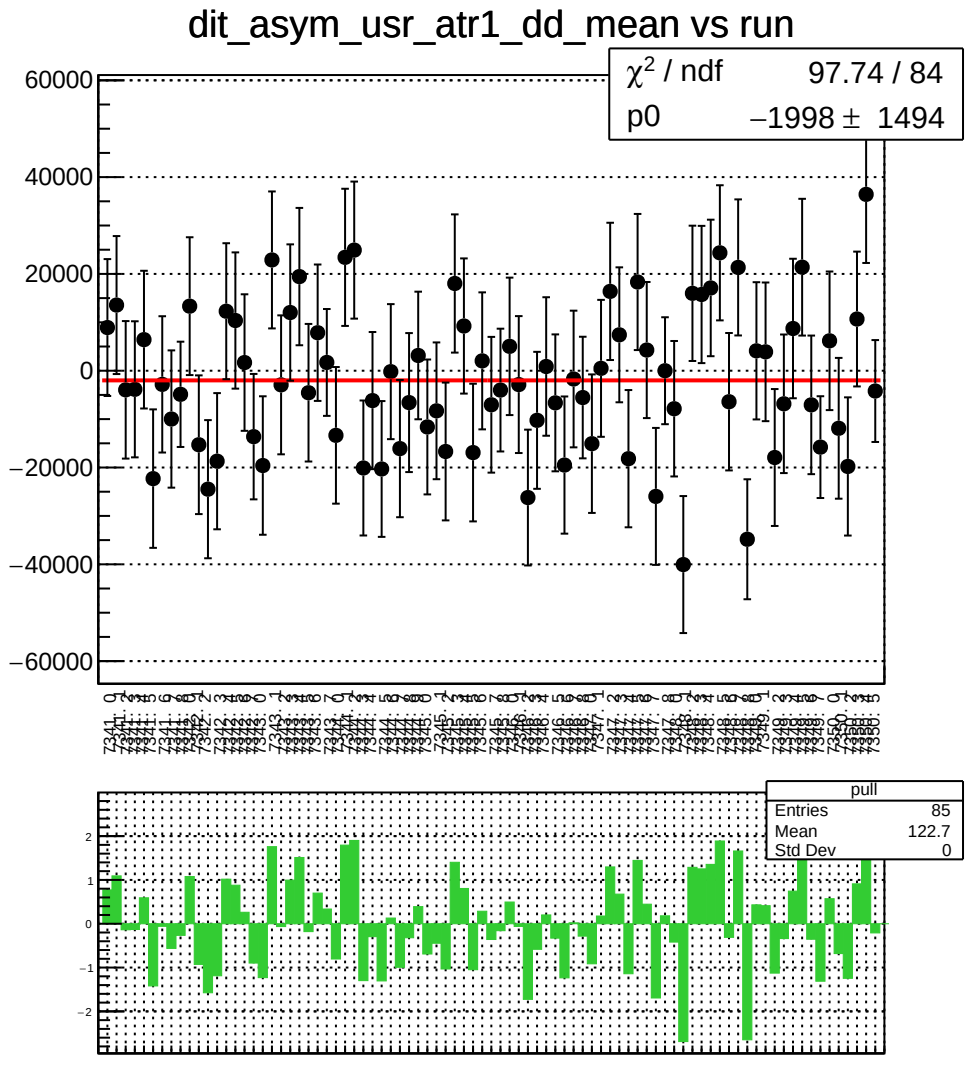

pull1D
Entries 85
Mean 0.008284
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

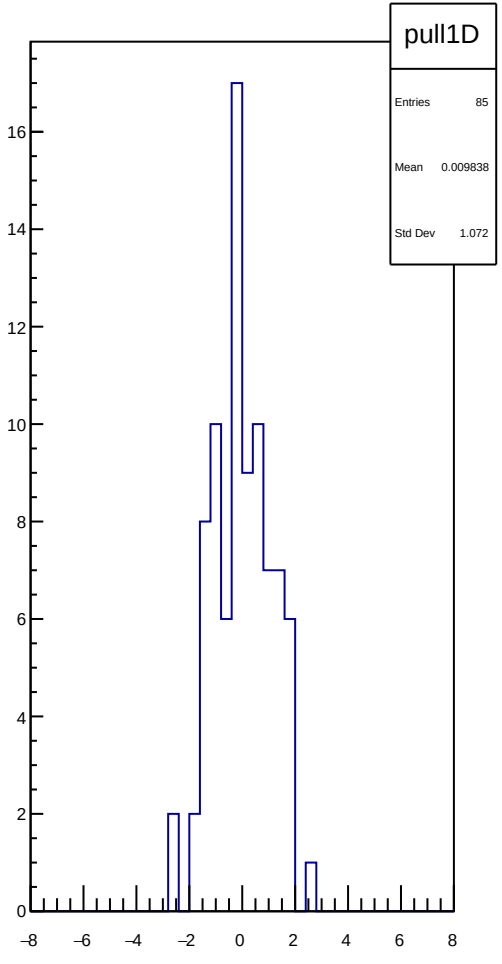

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 87.09 / 84
p0 1339 ± 1.054
1370
1360
1350
1340
1330
1320
1310
1300

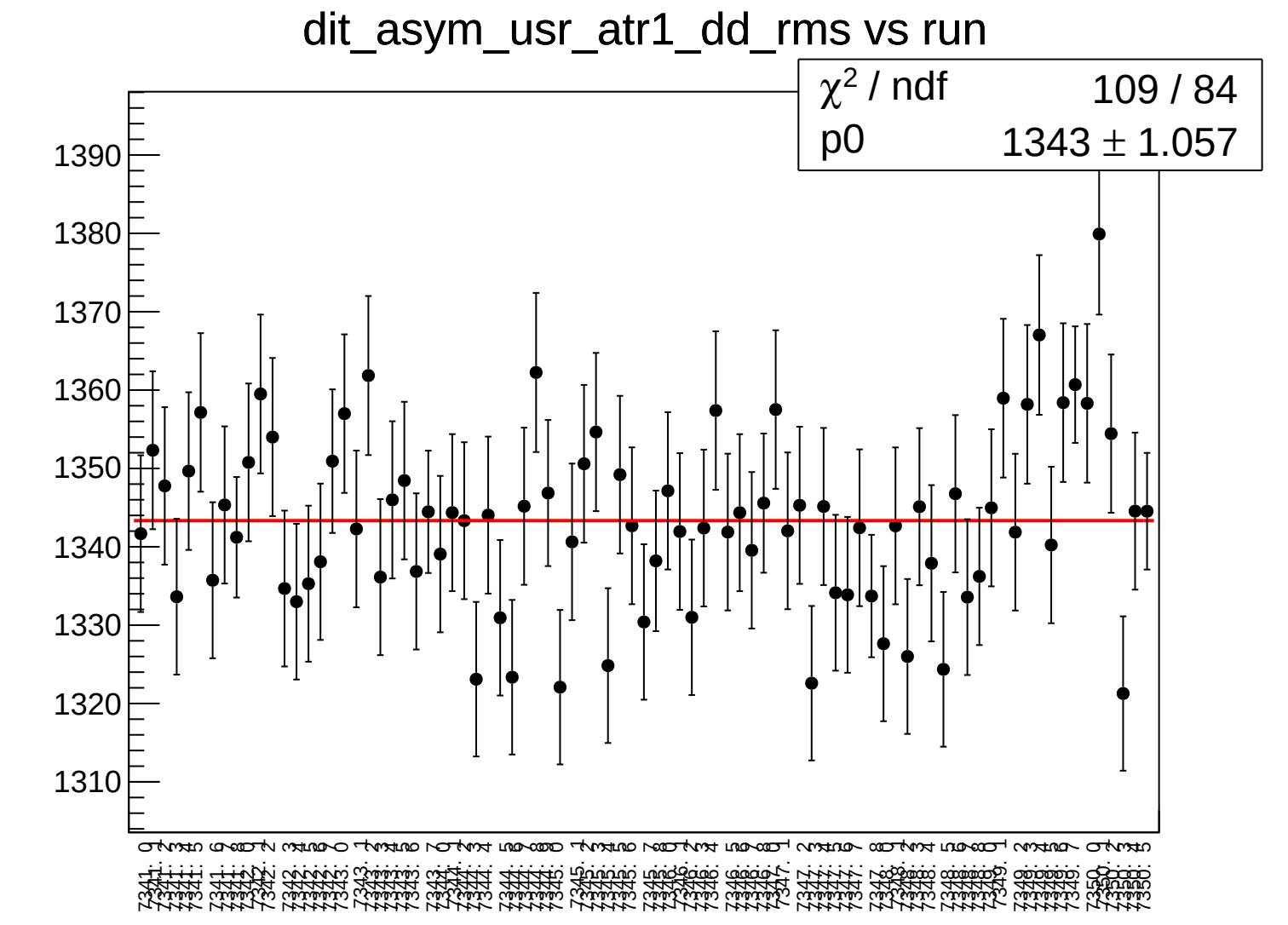

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.65 / 84
p0 98.94 ± 941.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −170.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

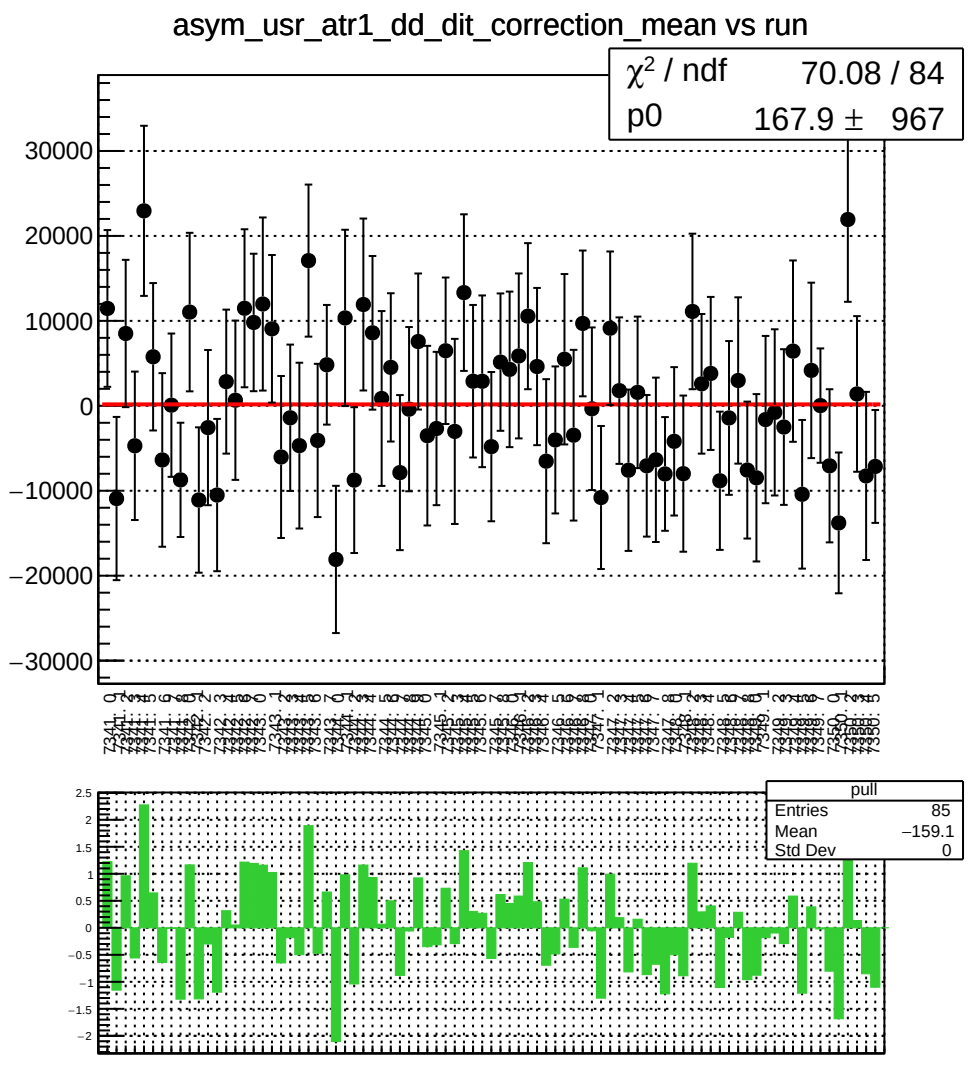

pull1D
Entries 85
Mean 0.02031
Std Dev 0.8984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

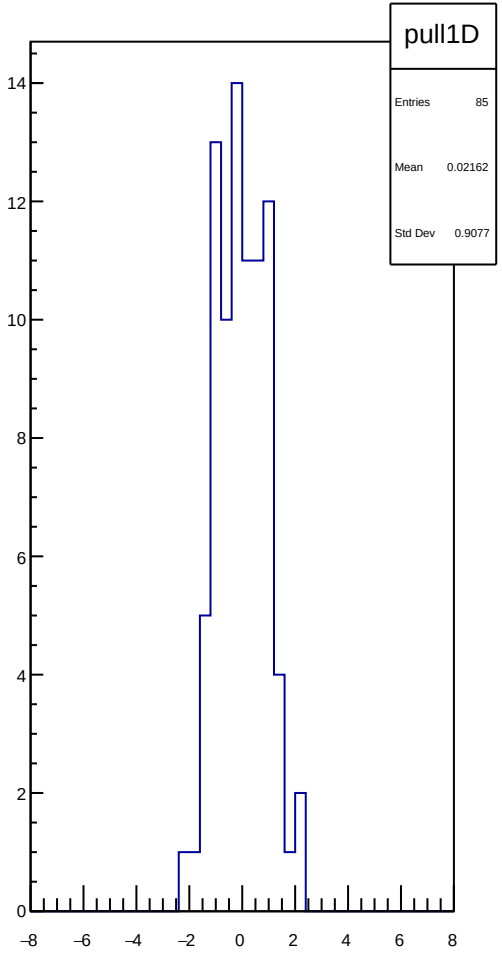

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6624 / 84
p0 844.6 ± 0.6657
1000
950
900
850
800
750

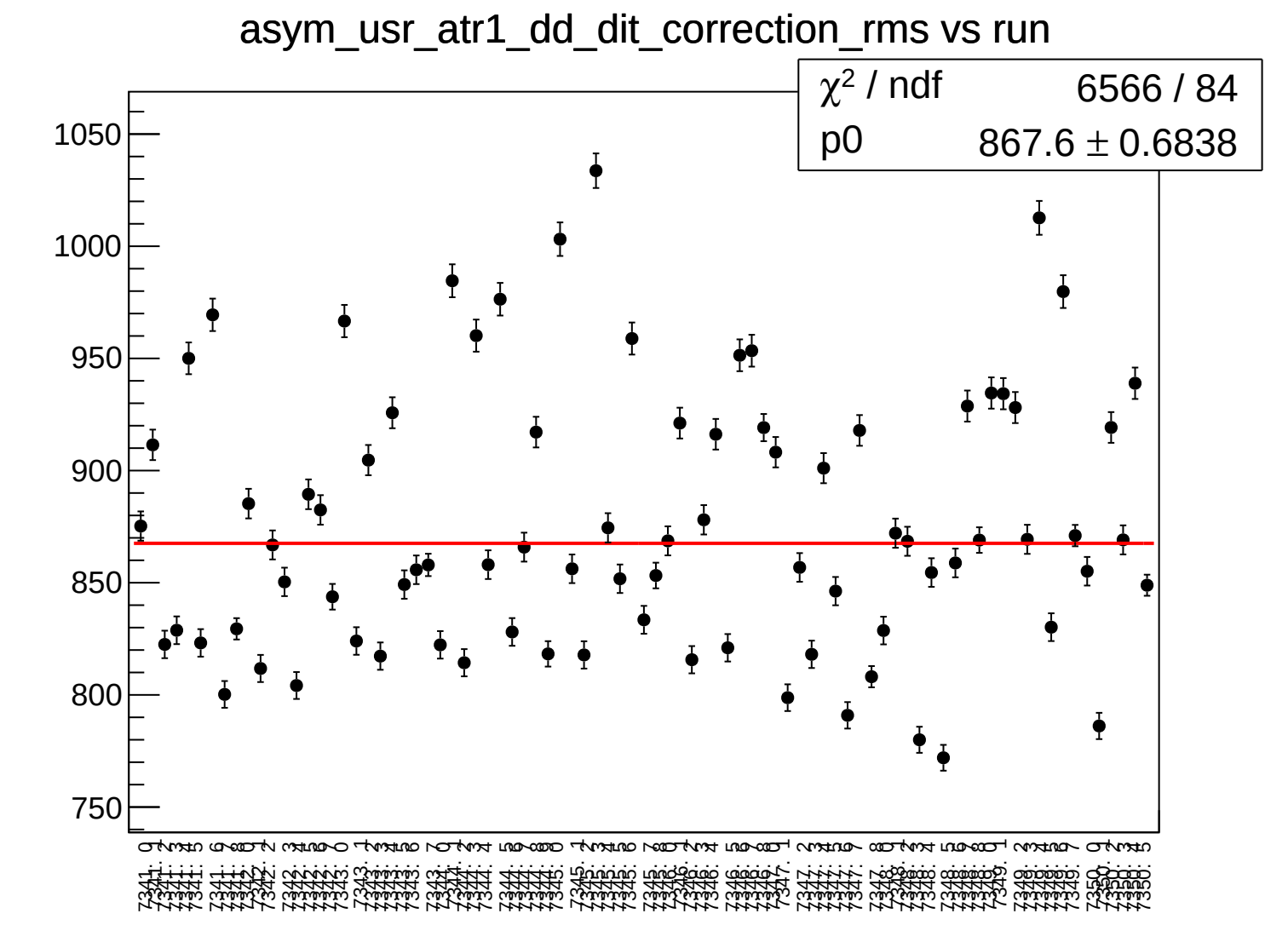

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 97.74 / 84
p0 −1998 ± 1494
pull
Entries 85
Mean 122.7
Std Dev 0

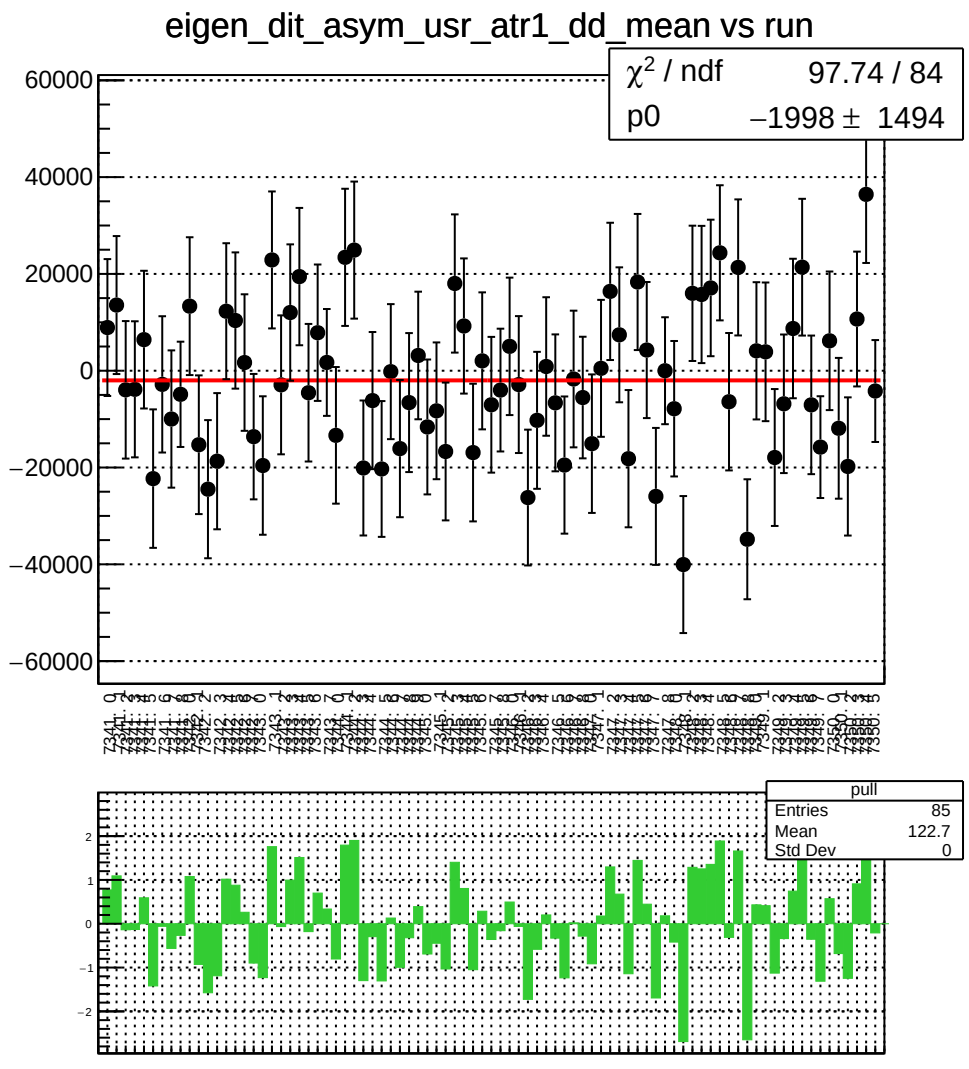

pull1D
Entries 85
Mean 0.009838
Std Dev 1.072

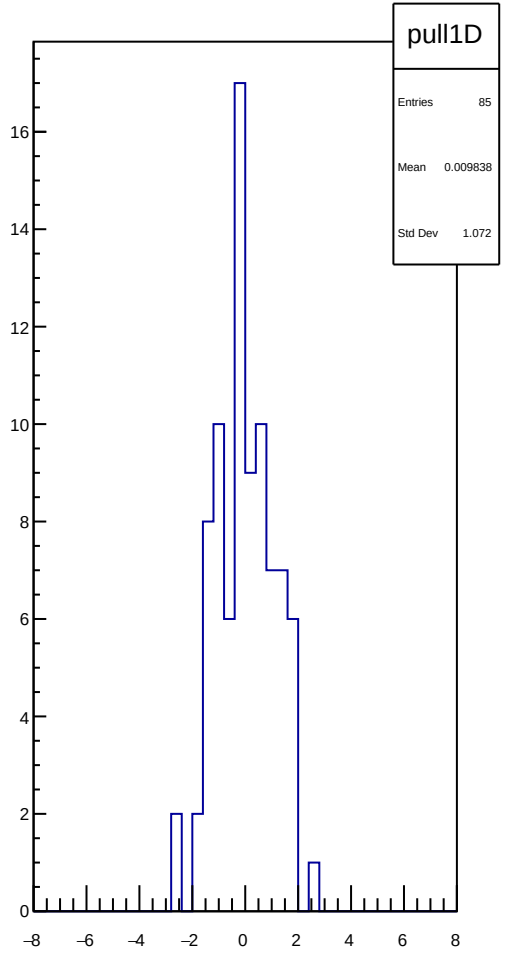

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 109 / 84
p0 1343 ± 1.057
1390
1380
1370
1360
1350
1340
1330
1320
1310

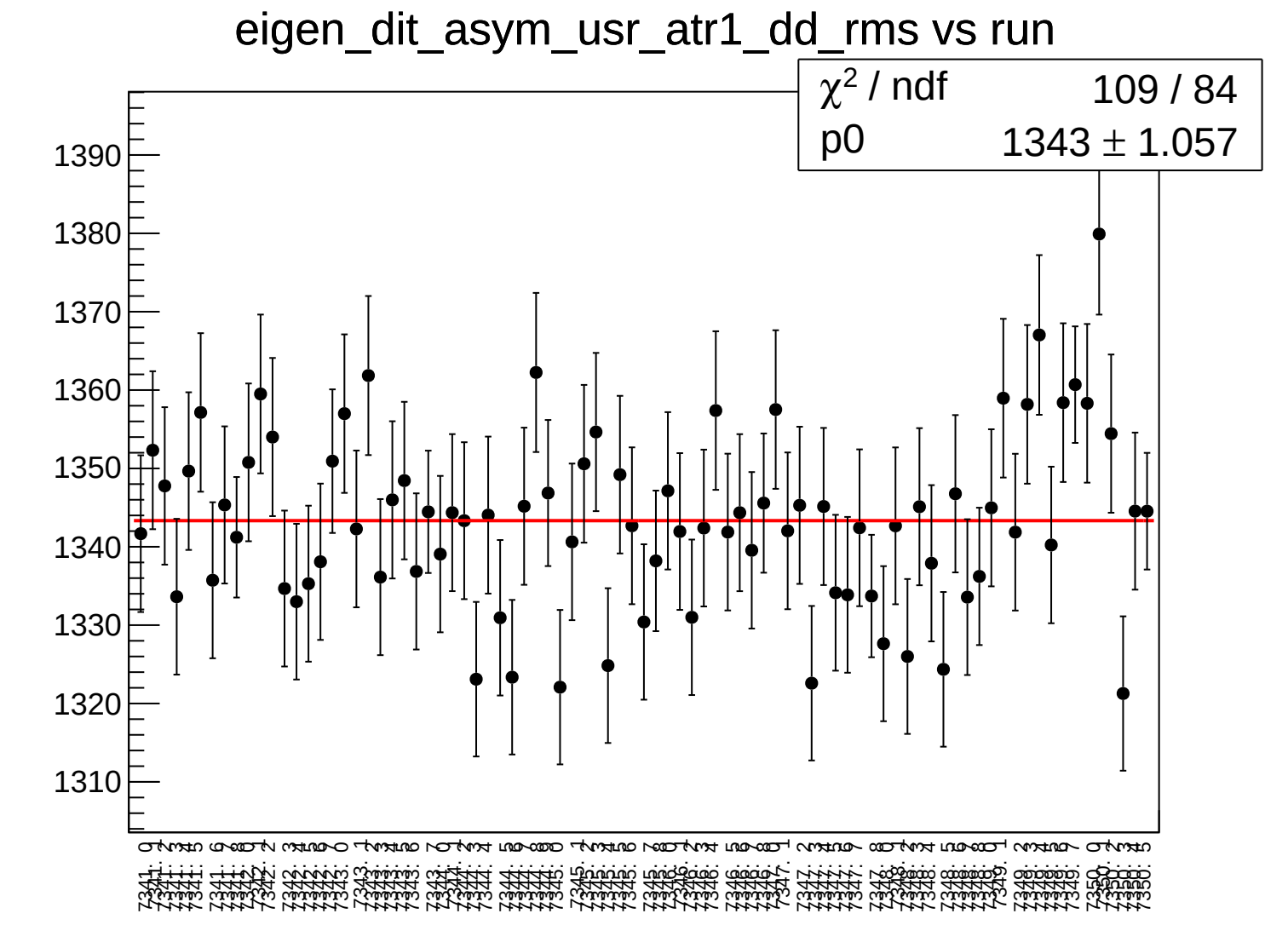

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 70.08 / 84
p0 167.9 ± 967
pull
Entries 85
Mean −159.1
Std Dev 0

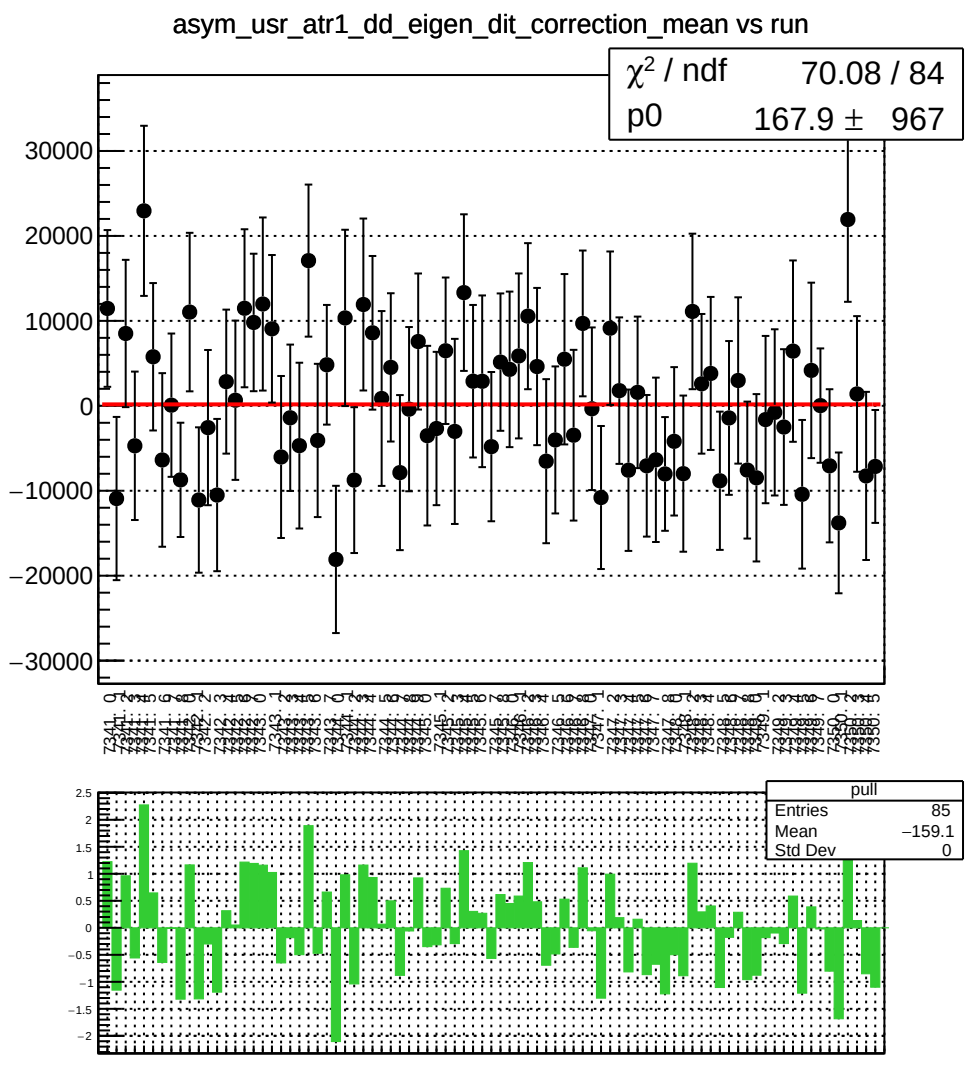

pull1D
Entries 85
Mean 0.02162
Std Dev 0.9077

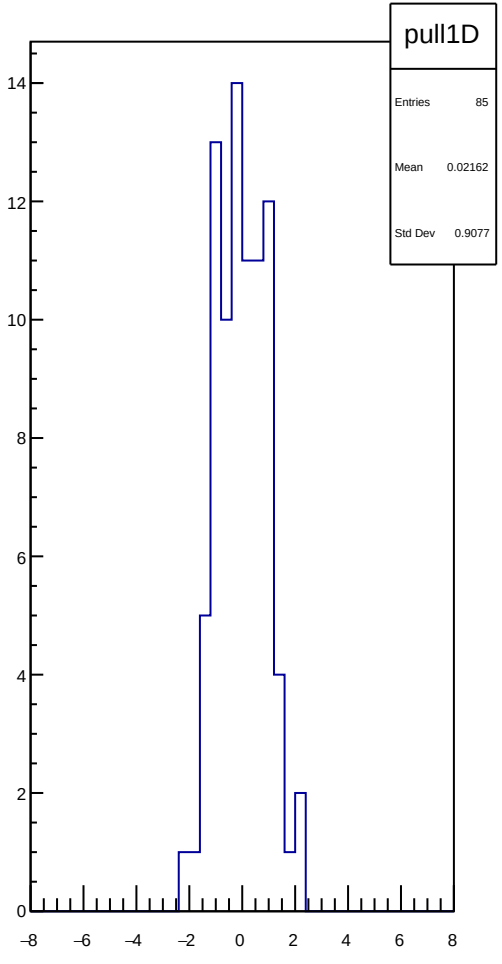

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 6566 / 84
p0 867.6 ± 0.6838
1050
1000
950
900
850
800
750

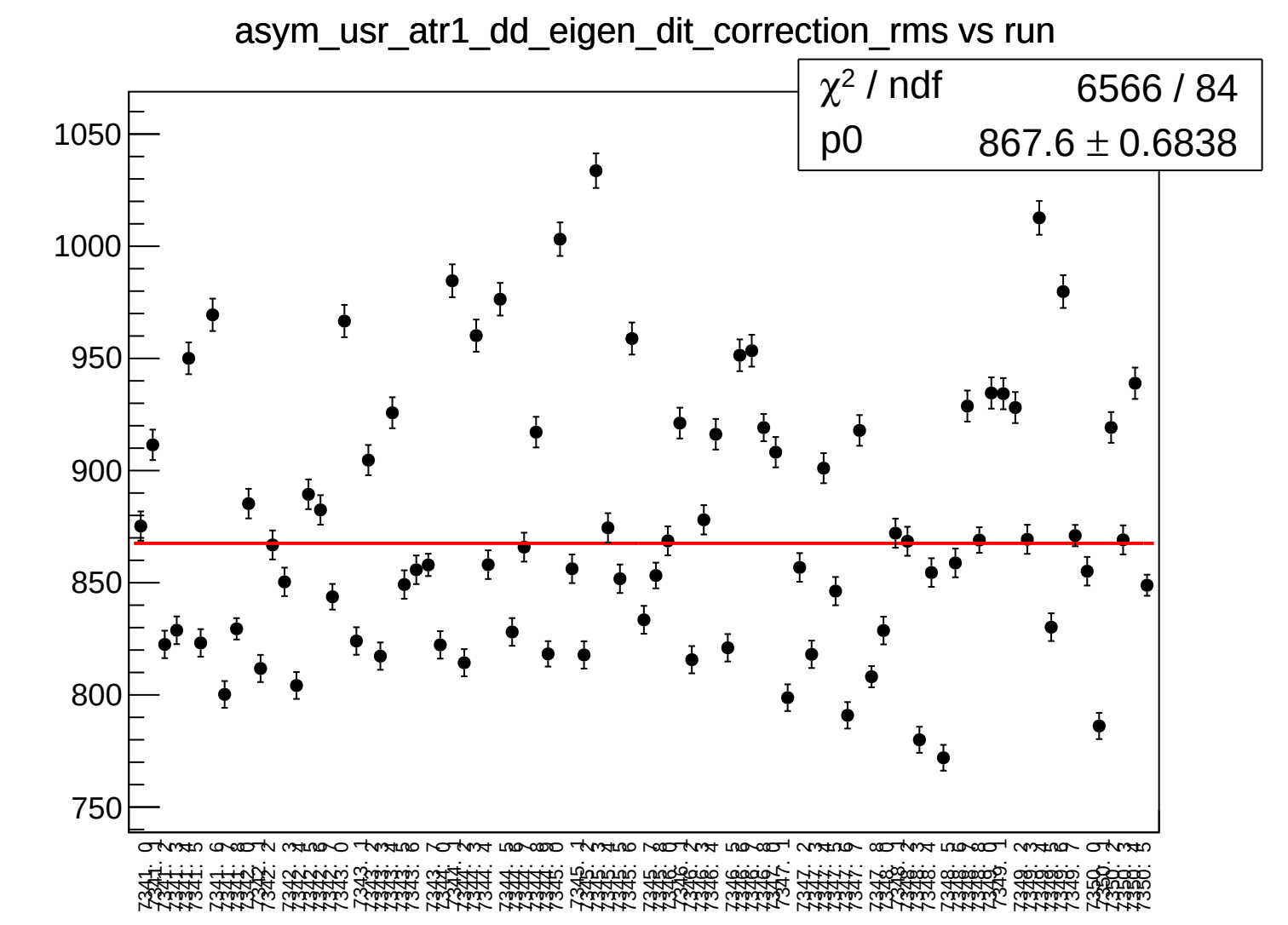

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 97.74 / 84
p0 −1998 ± 1494
pull
Entries 85
Mean 122.7
Std Dev 0

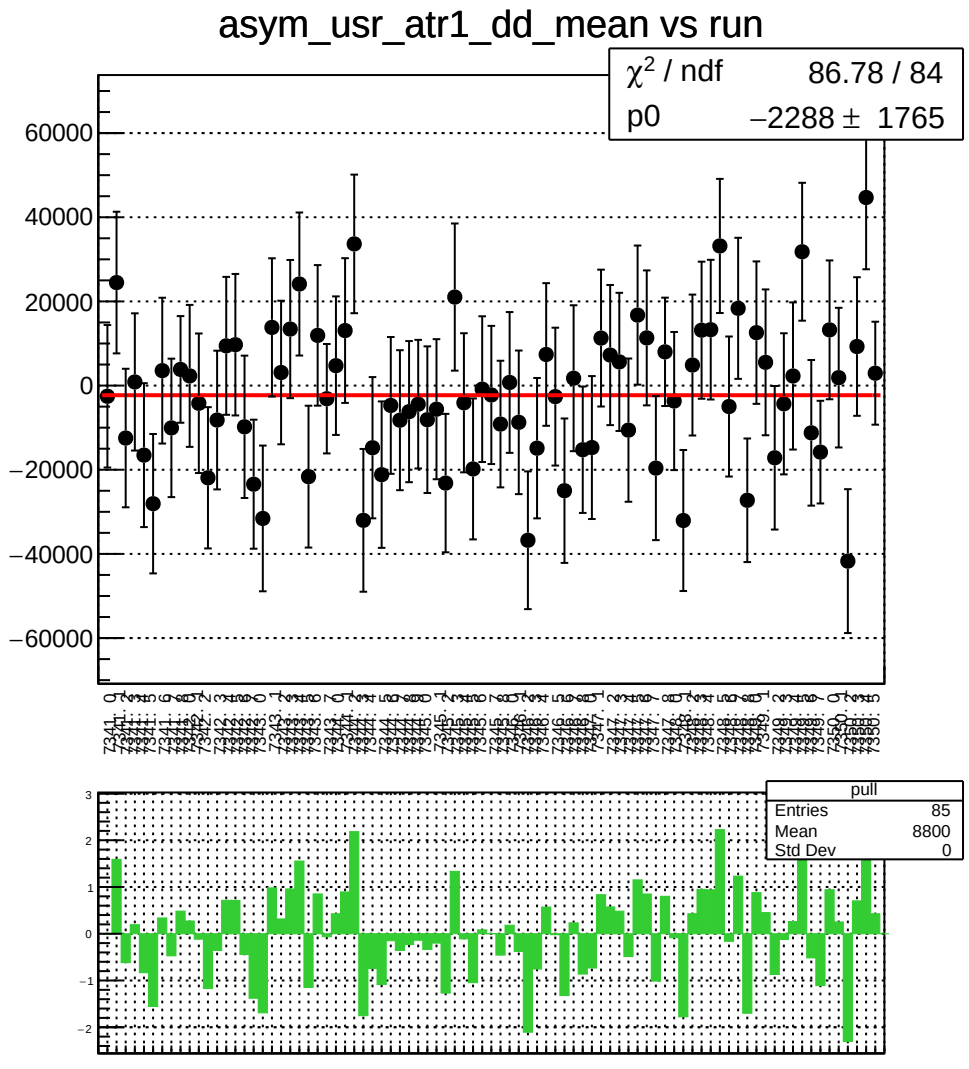

pull1D
Entries 85
Mean 0.009838
Std Dev 1.072

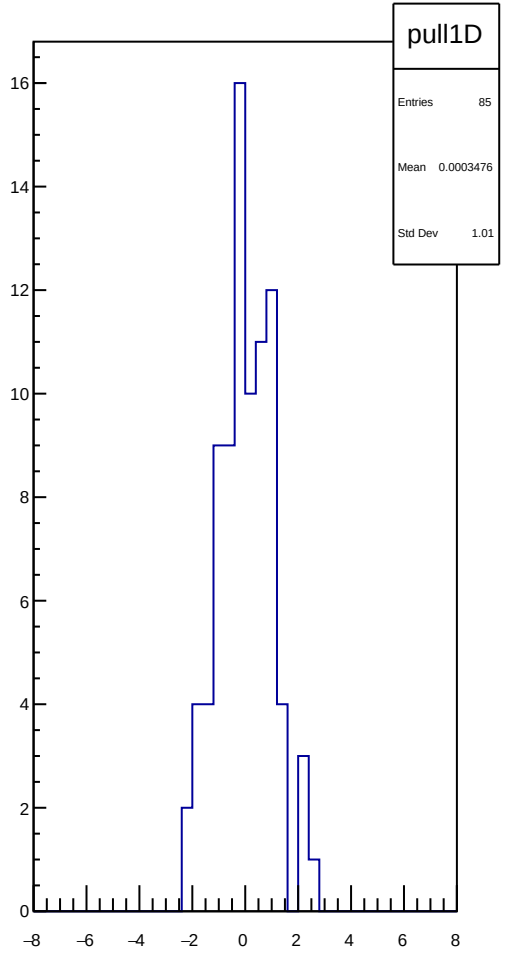

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 109 / 84
p0 1343 ± 1.057
1390
1380
1370
1360
1350
1340
1330
1320
1310

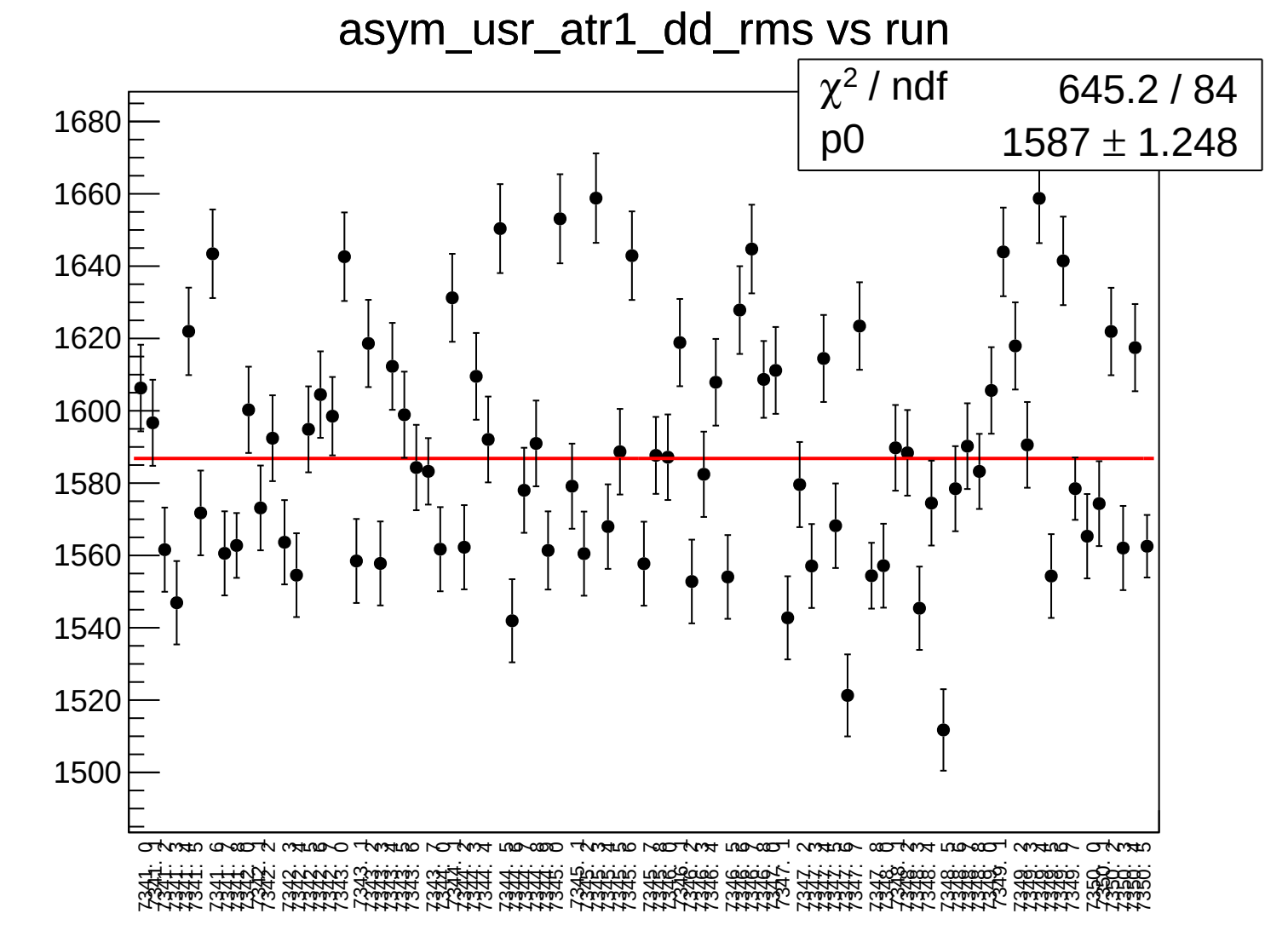

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.08 / 84
p0 167.9 ± 967
pull
Entries 85
Mean −159.1
Std Dev 0

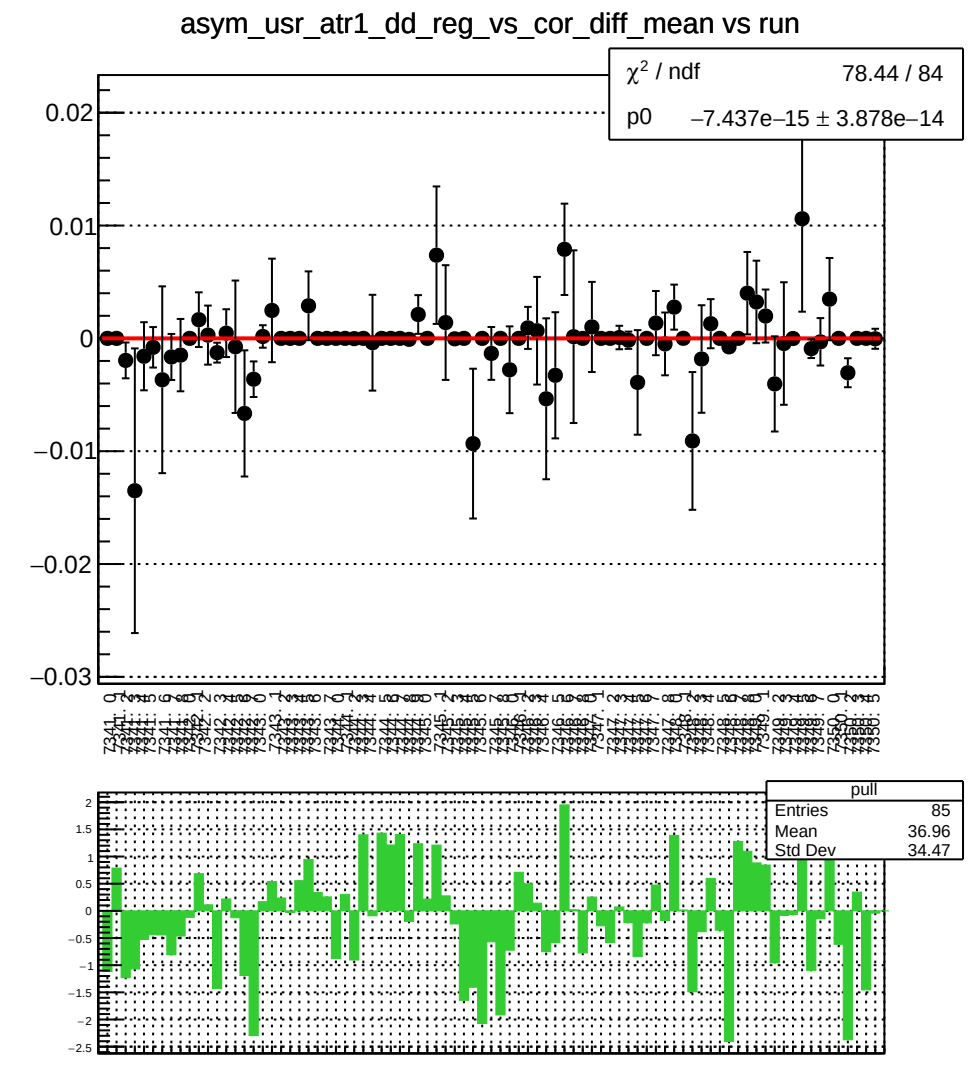

pull1D
Entries 85
Mean 0.02162
Std Dev 0.9077

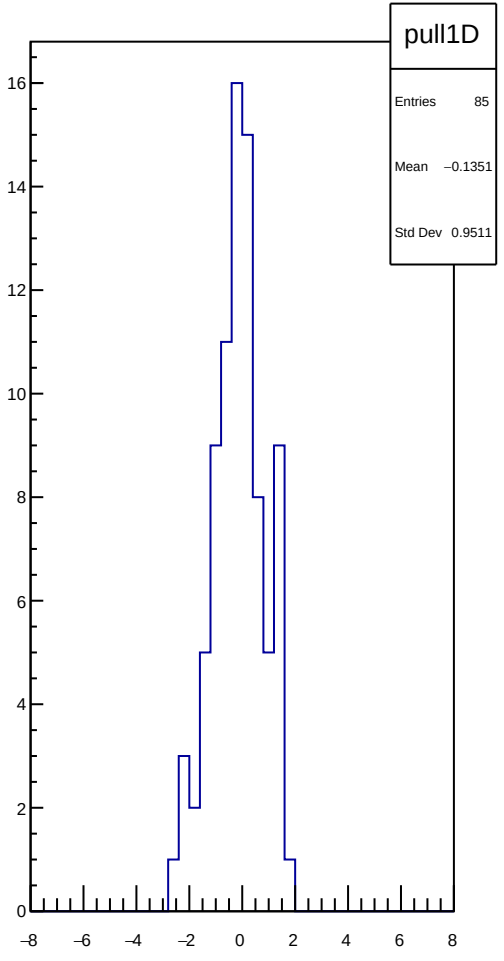

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 6566 / 84
p0 867.6 ± 0.6838
1050
1000
950
900
850
800
750

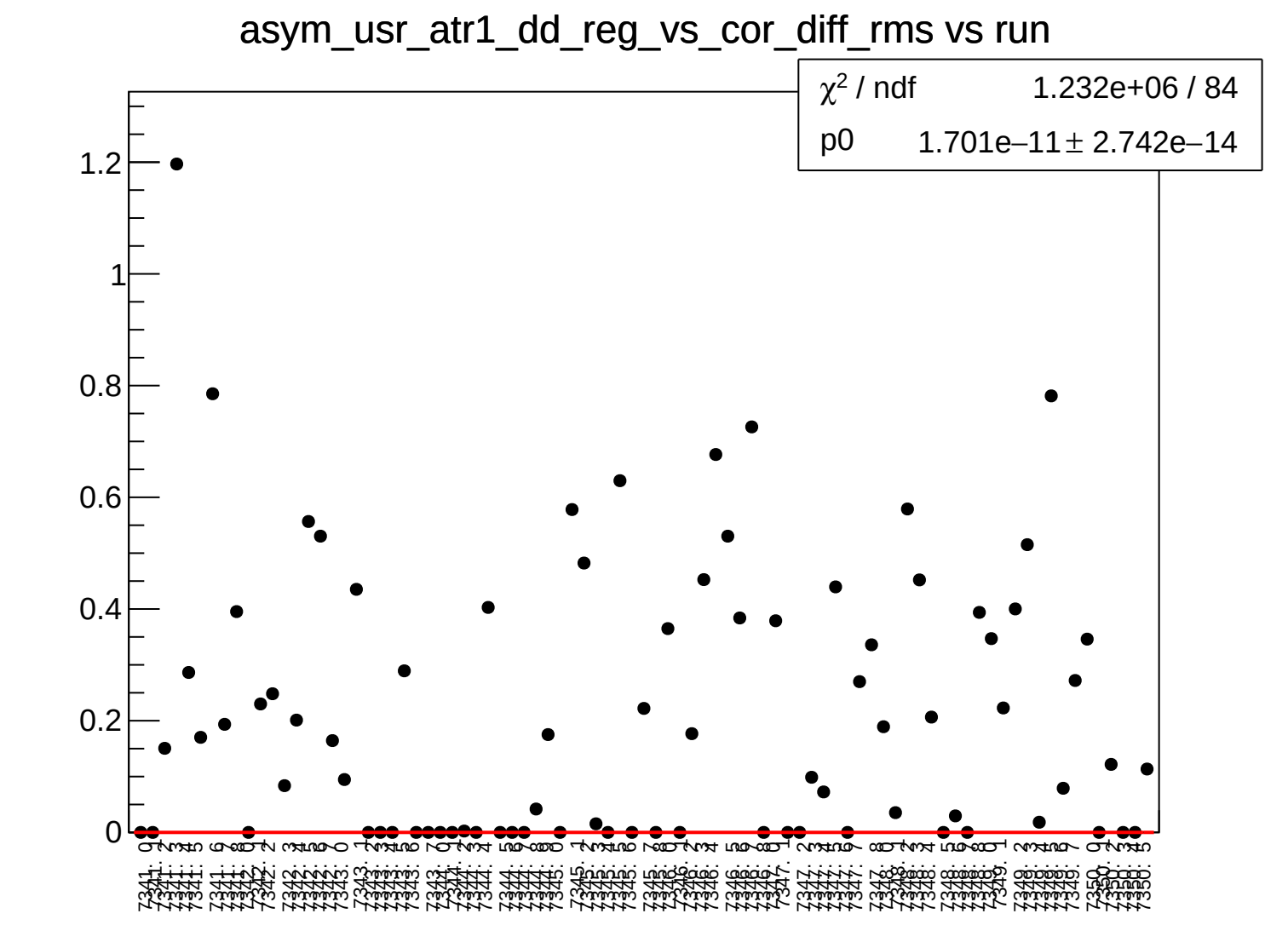

asym_usr_atr1_dd_mean vs run
χ² / ndf 86.78 / 84
p0 −2288 ± 1765
pull
Entries 85
Mean 8800
Std Dev 0

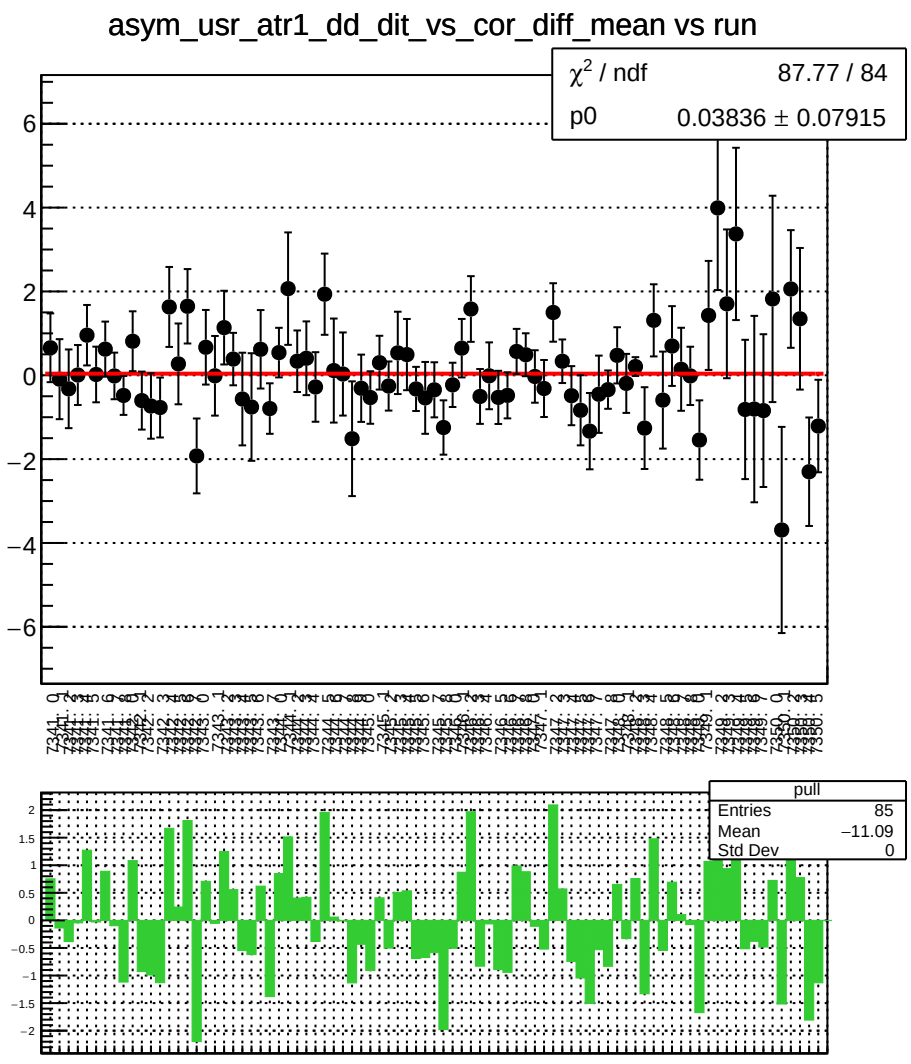

pull1D
Entries 85
Mean 0.0003476
Std Dev 1.01

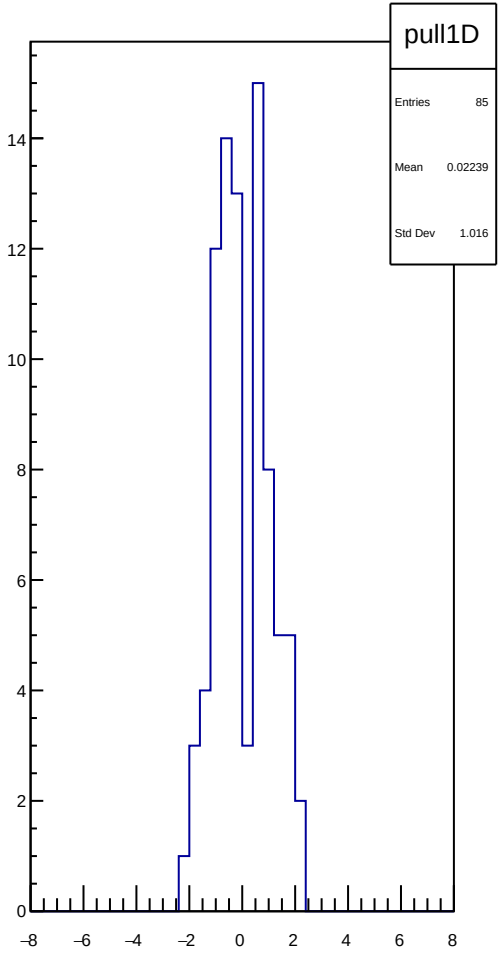

asym_usr_atr1_dd_rms vs run
χ² / ndf 645.2 / 84
p0 1587 ± 1.248
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500

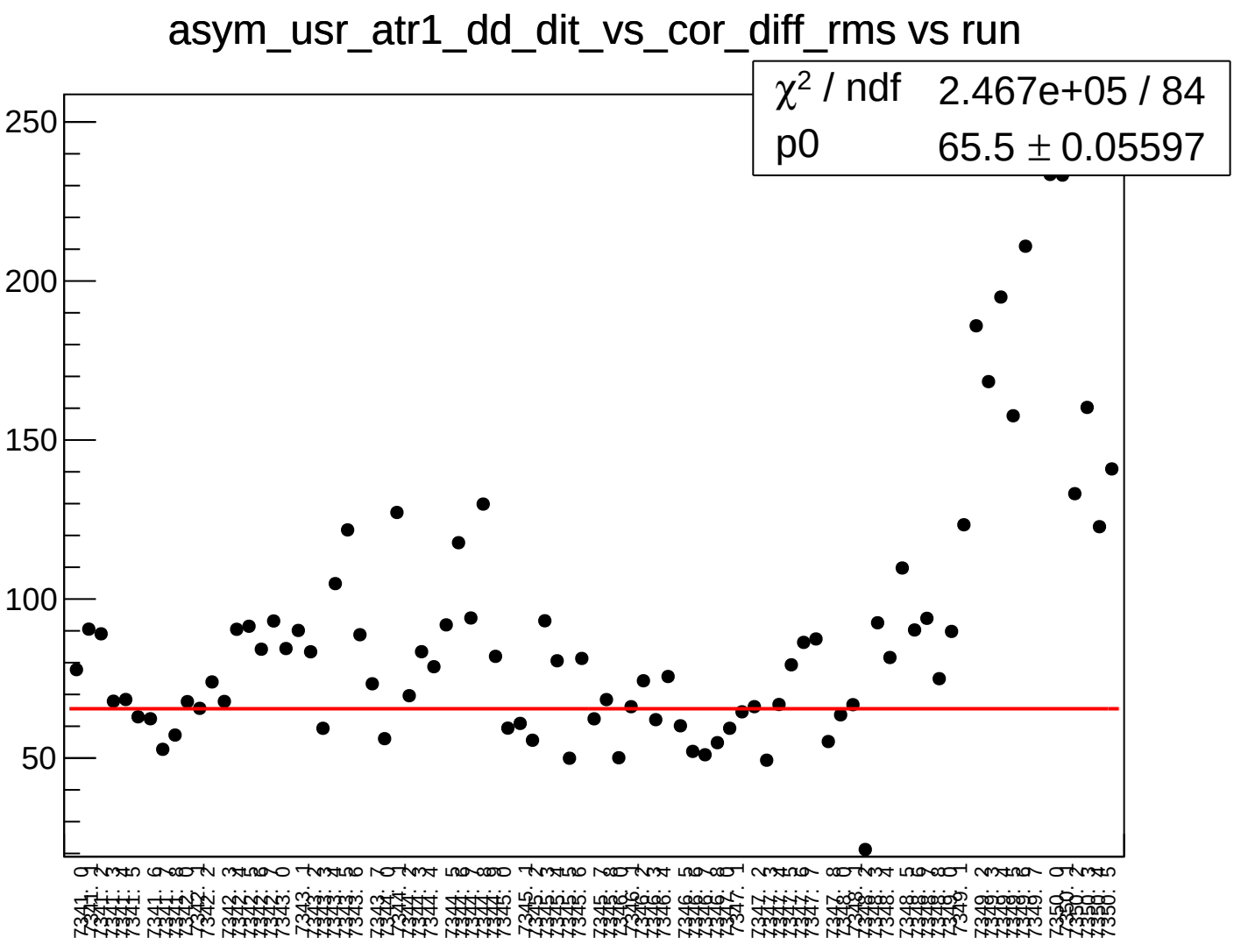

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.44 / 84
p0 −7.437e−15 ± 3.878e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean 36.96
Std Dev 34.47
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

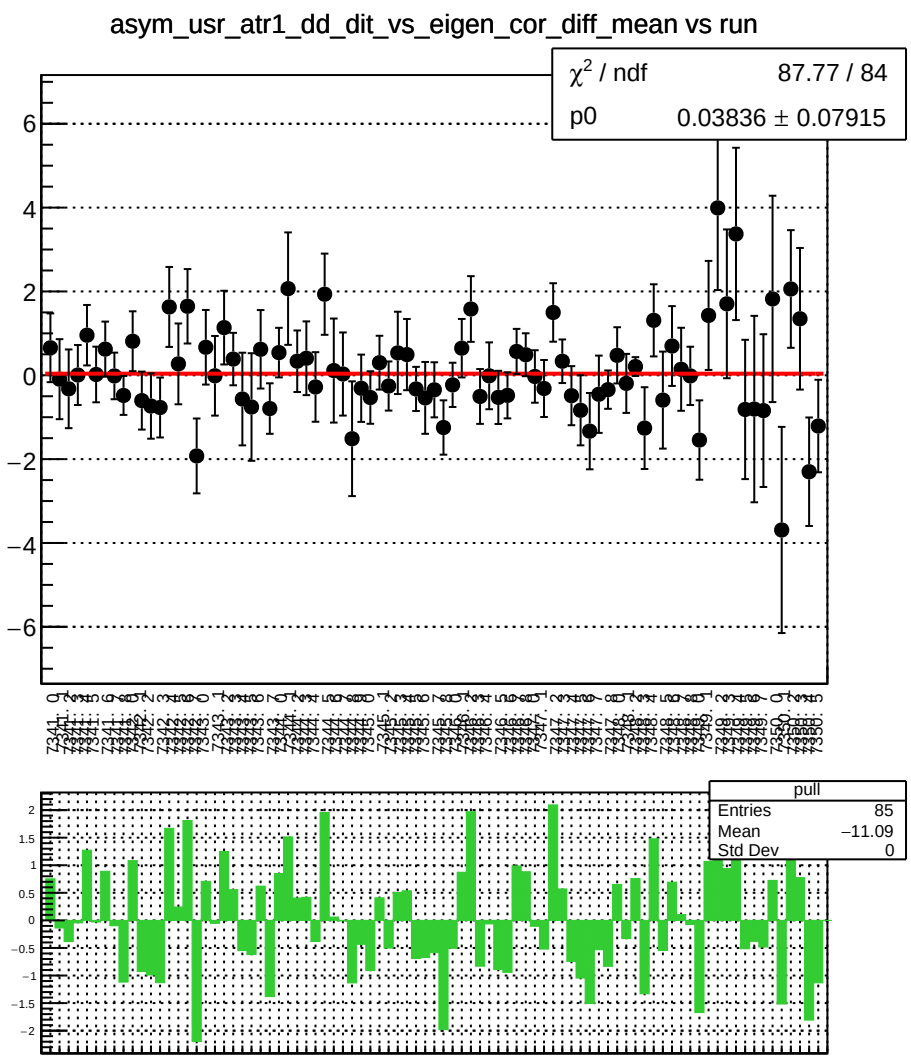

pull1D
Entries 85
Mean −0.1351
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

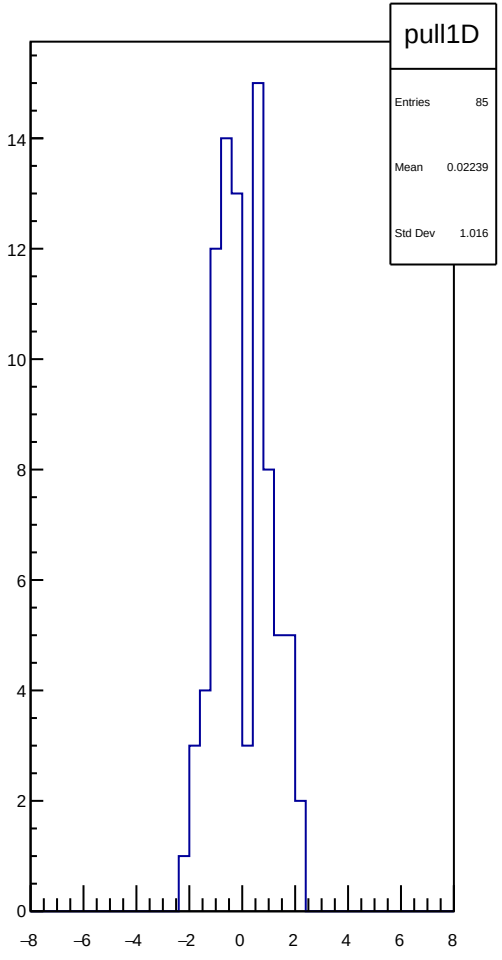

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.232e+06 / 84
p0 1.701e−11 ± 2.742e−14
1.2
1
0.8
0.6
0.4
0.2
0

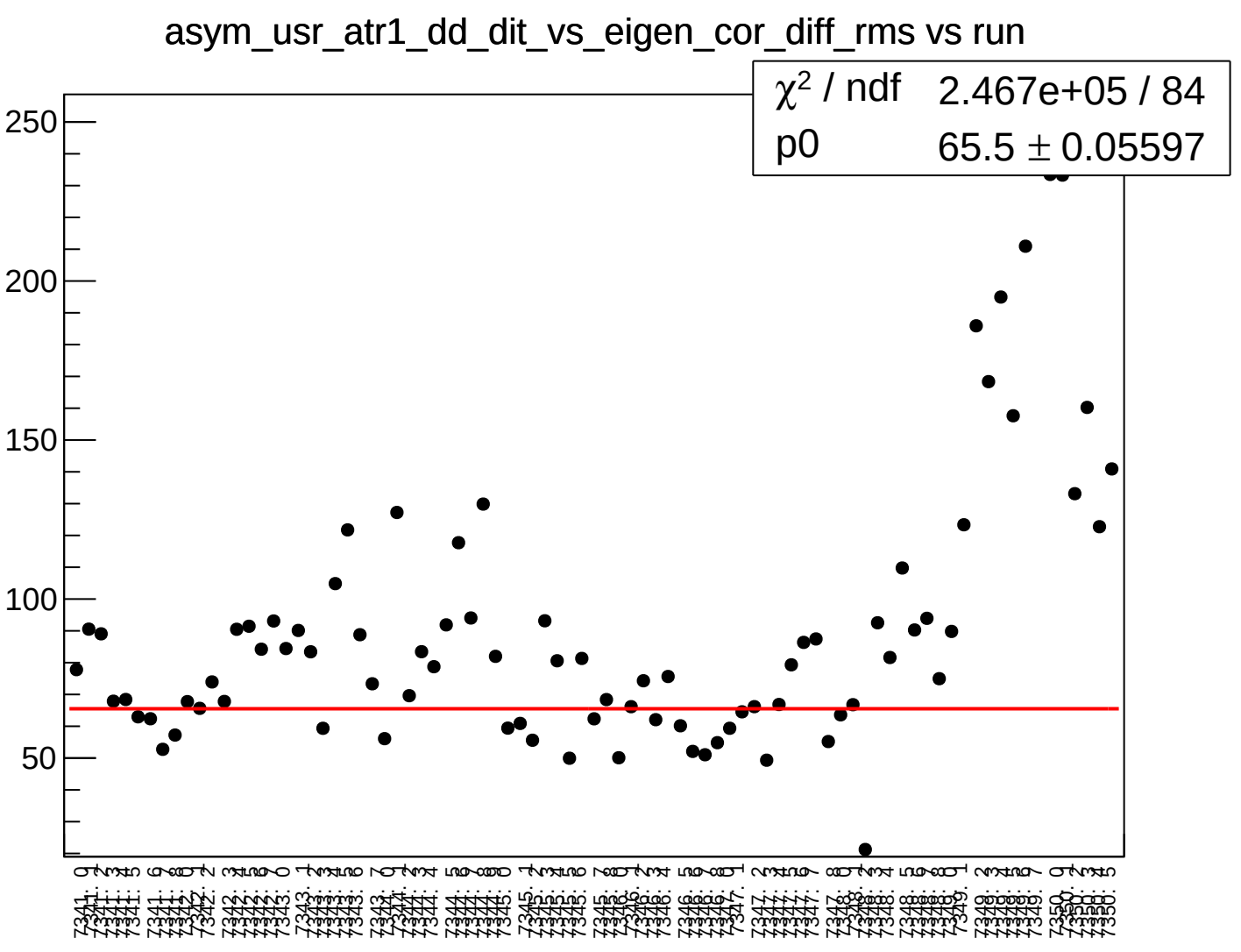

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.77 / 84
p0 0.03836 ± 0.07915
pull
Entries 85
Mean −11.09
Std Dev 0

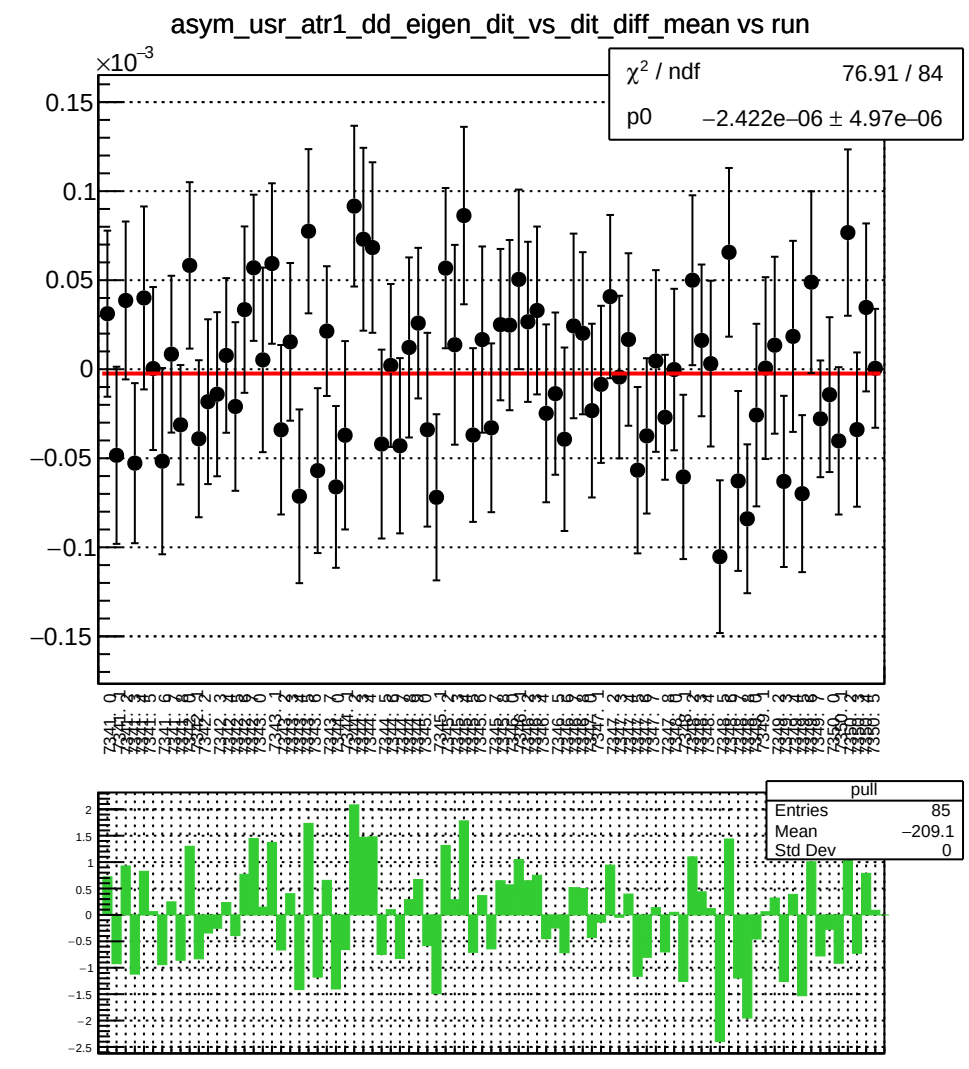

pull1D
Entries 85
Mean 0.02239
Std Dev 1.016

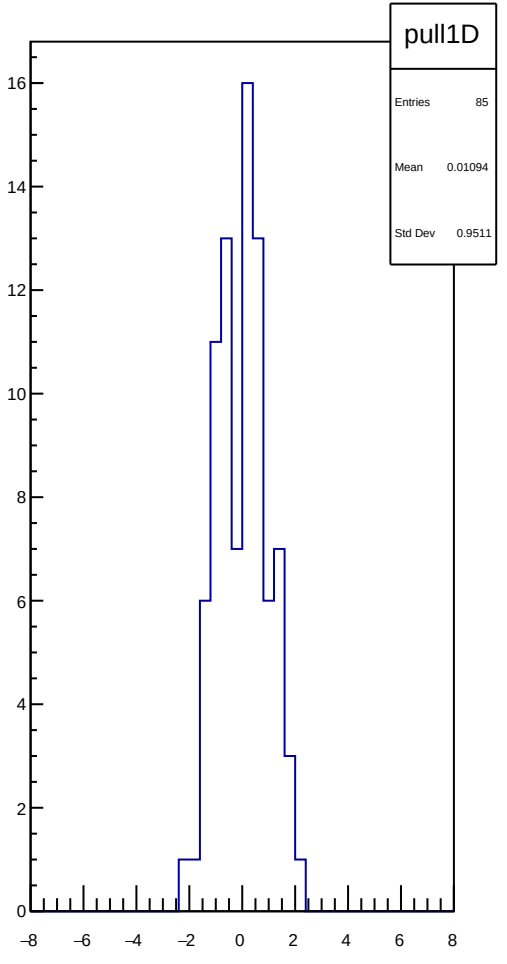

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.467e+05 / 84
p0 65.5 ± 0.05597
250
200
150
100
50

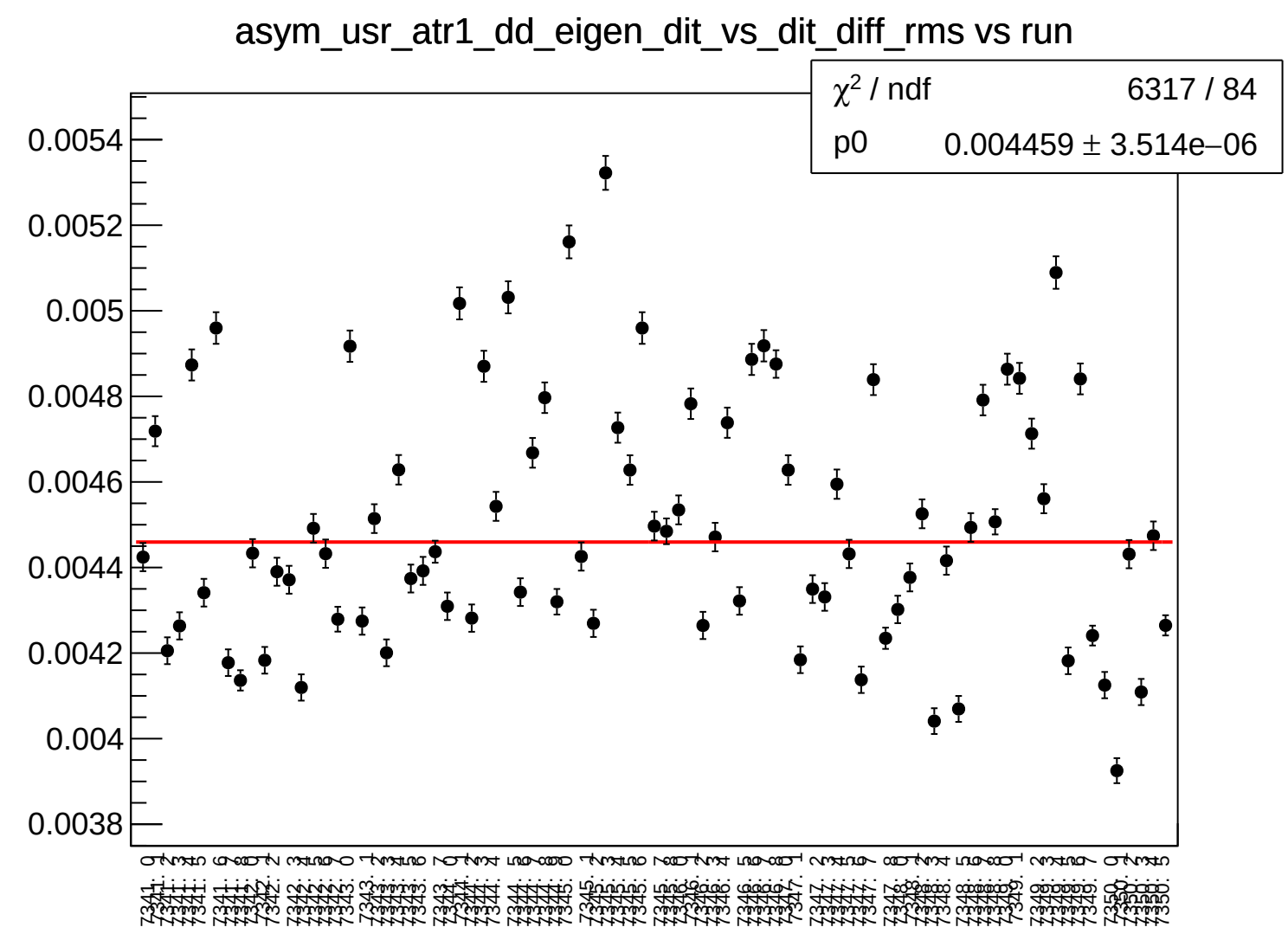

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.77 / 84
p0 0.03836 ± 0.07915
pull
Entries 85
Mean −11.09
Std Dev 0

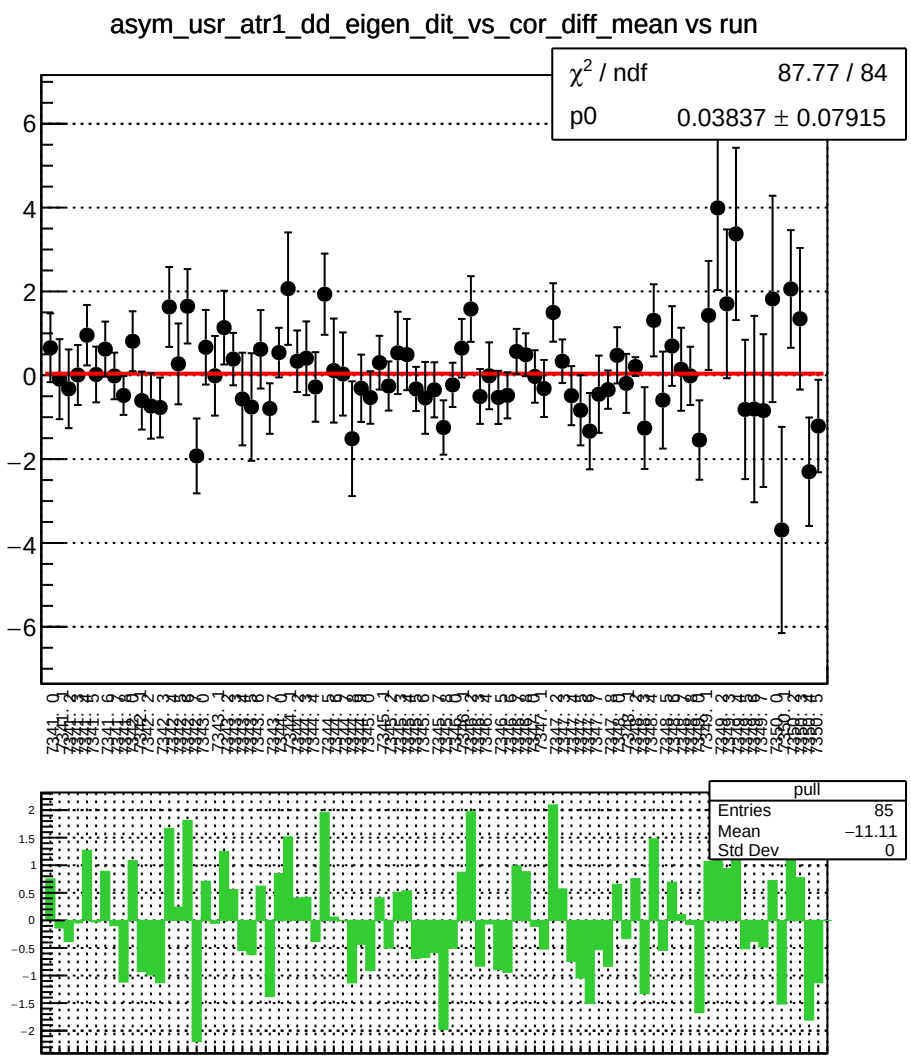

pull1D
Entries 85
Mean 0.02239
Std Dev 1.016

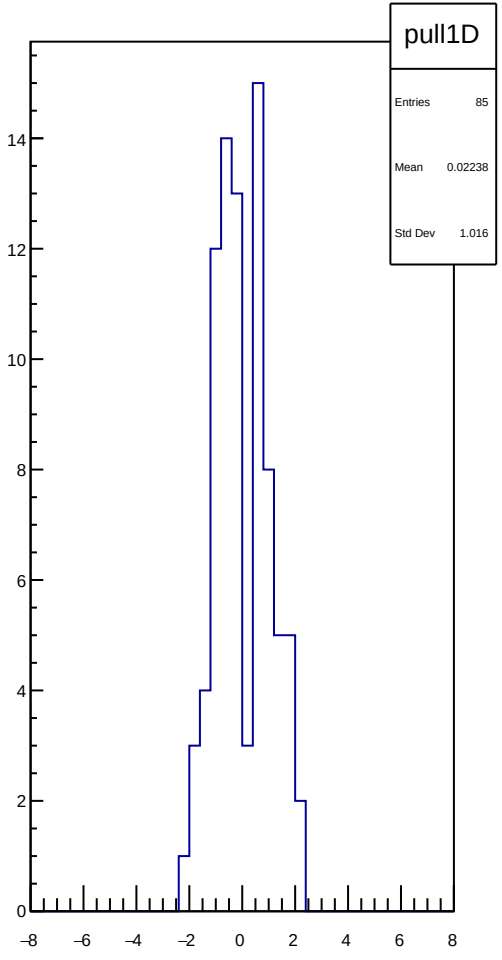

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.467e+05 / 84
p0 65.5 ± 0.05597
250
200
150
100
50

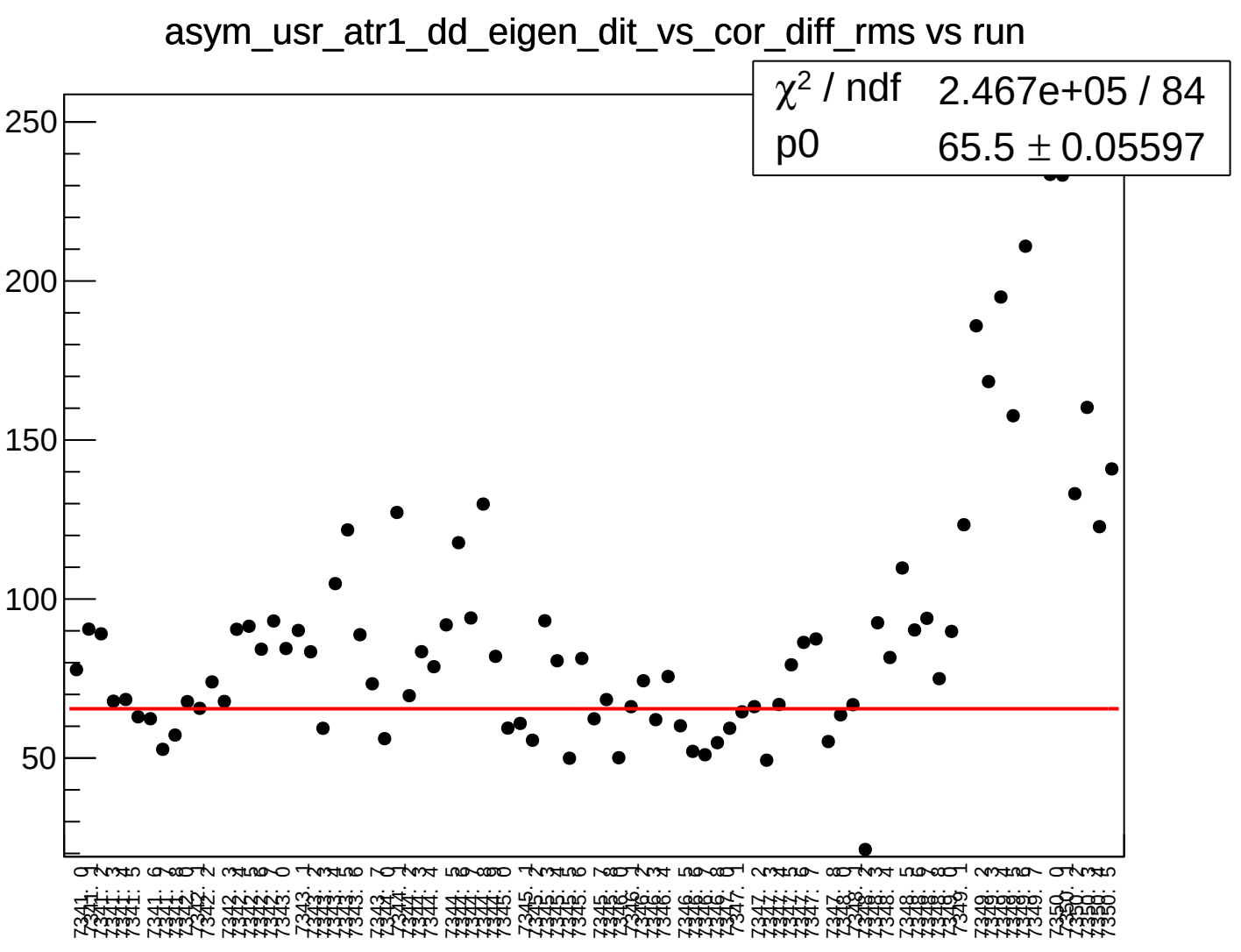

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.91 / 84
p0 −2.422e−06 ± 4.97e−06
pull
Entries 85
Mean −209.1
Std Dev 0

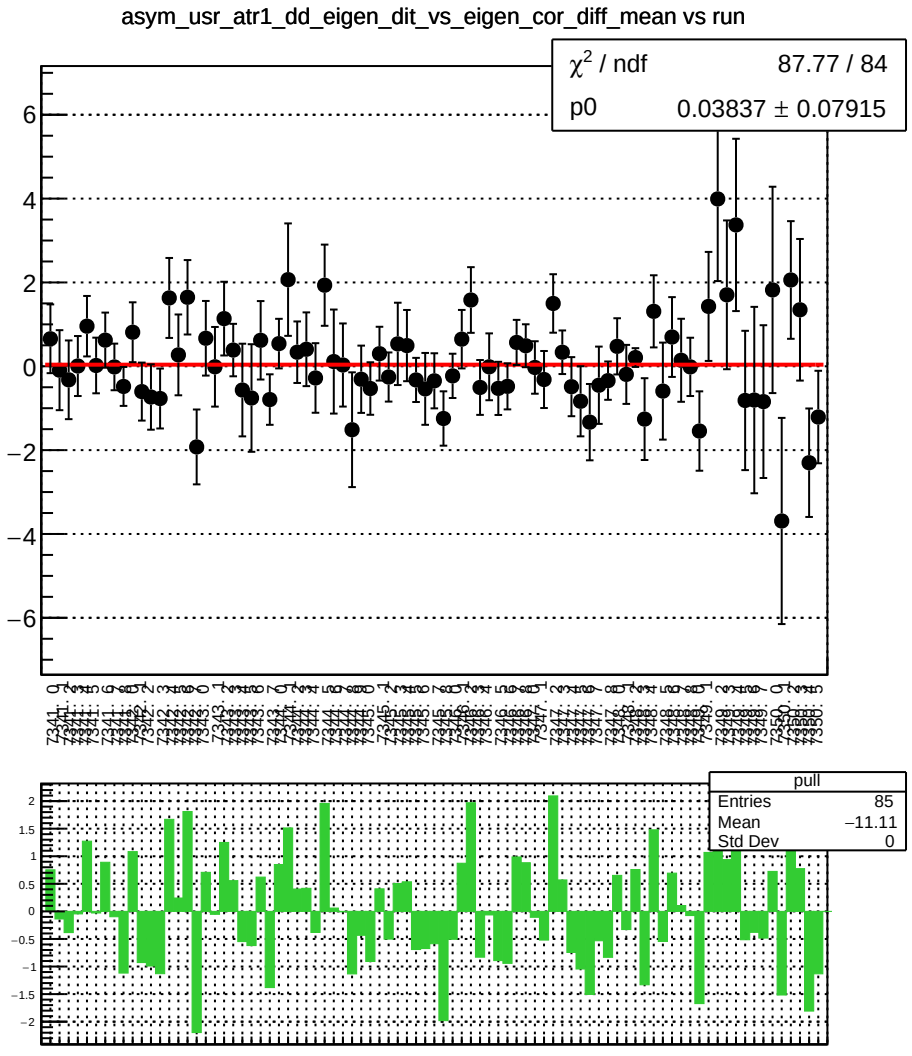

pull1D
Entries 85
Mean 0.01094
Std Dev 0.9511

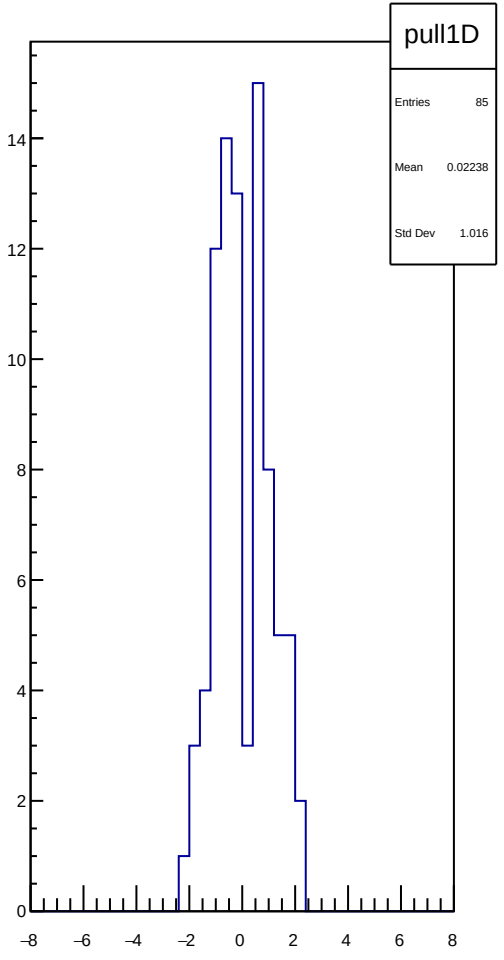

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6317 / 84
p0 0.004459 ± 3.514e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

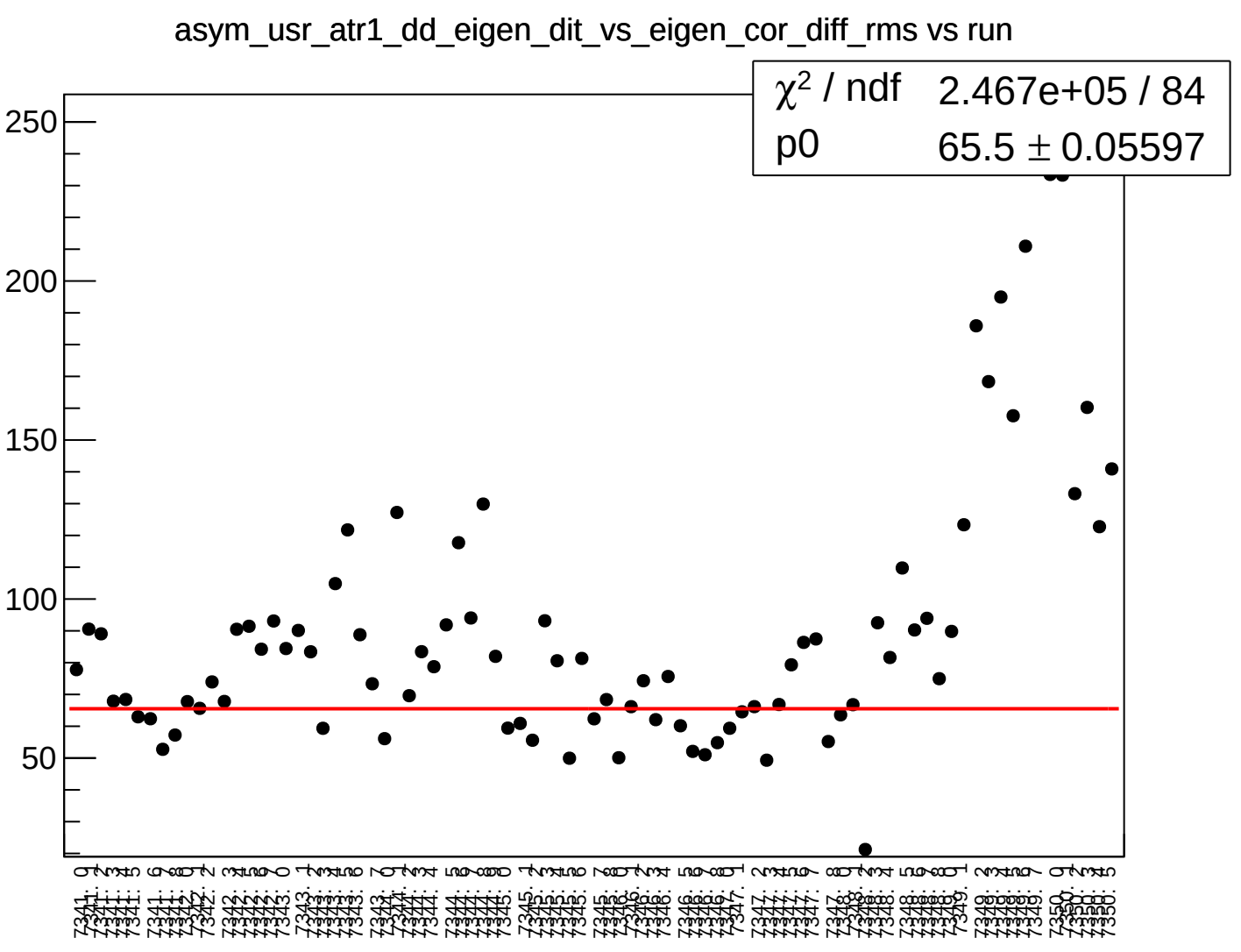

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.77 / 84
p0 0.03837 ± 0.07915
pull
Entries 85
Mean −11.11
Std Dev 0

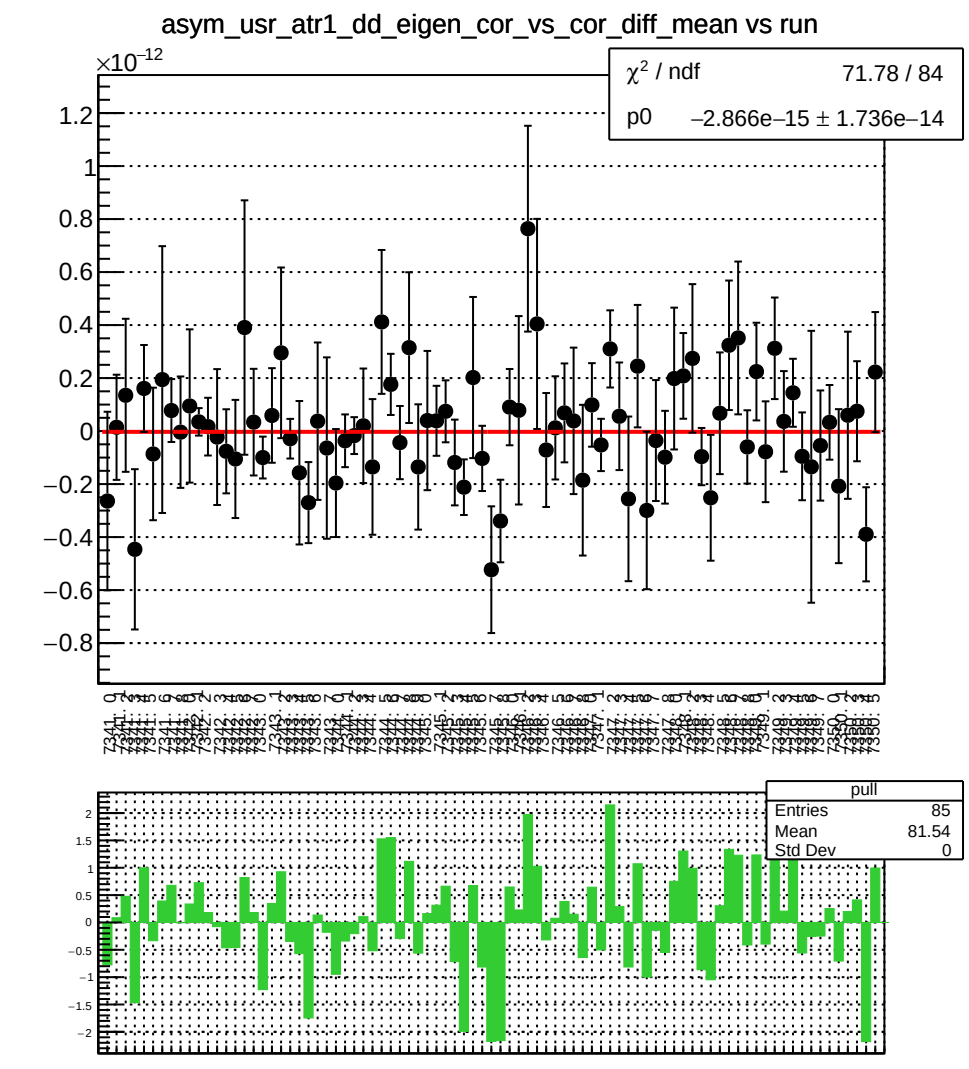

pull1D
Entries 85
Mean 0.02238
Std Dev 1.016

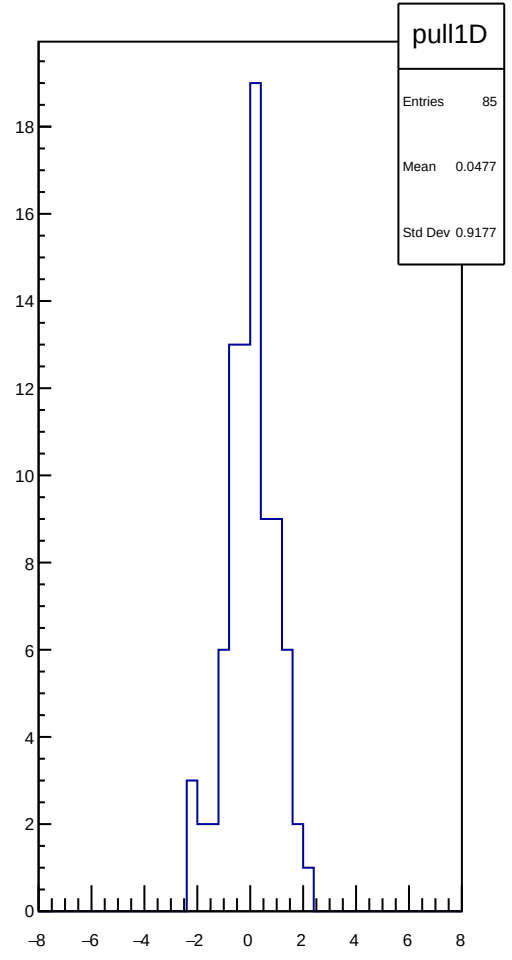

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.467e+05 / 84
p0 65.5 ± 0.05597
250
200
150
100
50

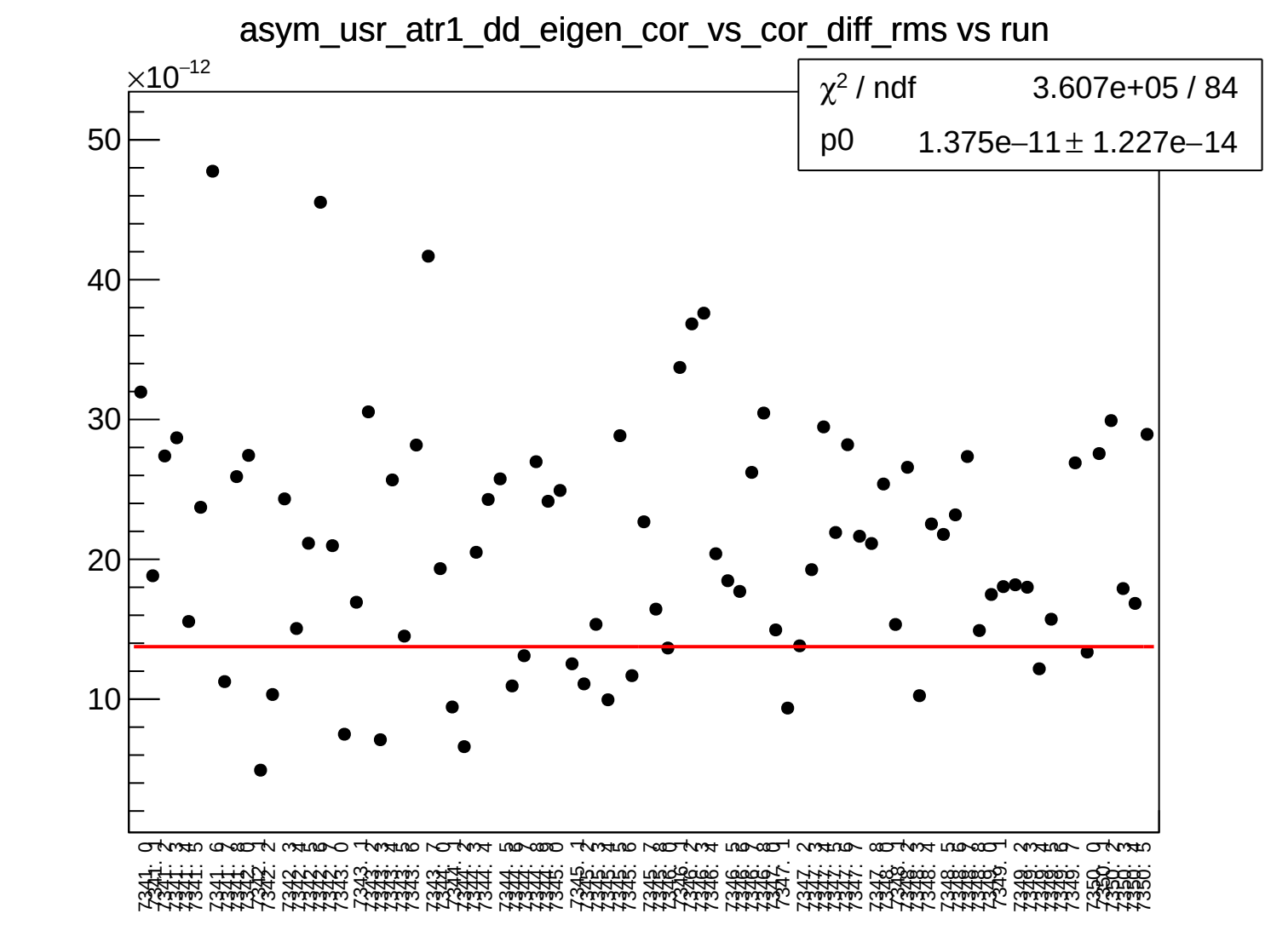

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.77 / 84
p0 0.03837 ± 0.07915
pull
Entries 85
Mean −11.11
Std Dev 0

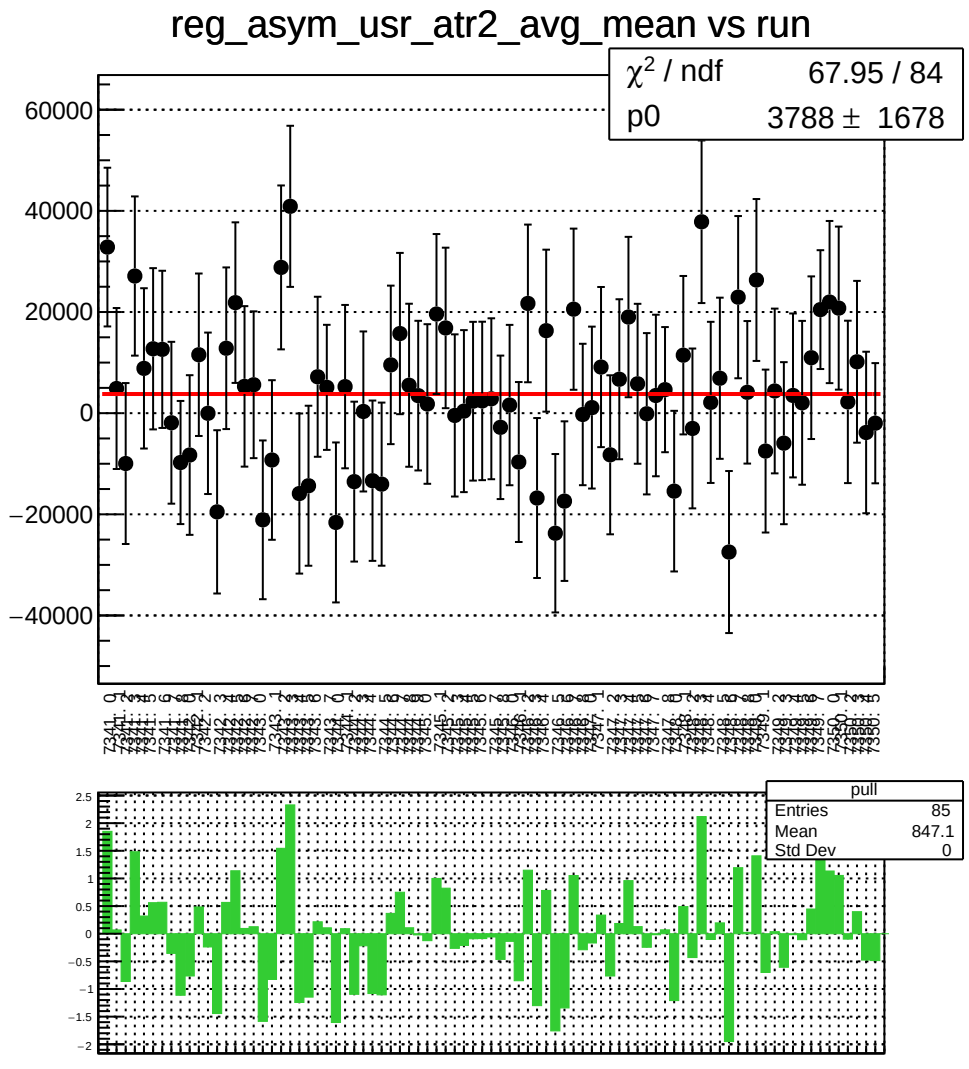

pull1D
Entries 85
Mean 0.02238
Std Dev 1.016

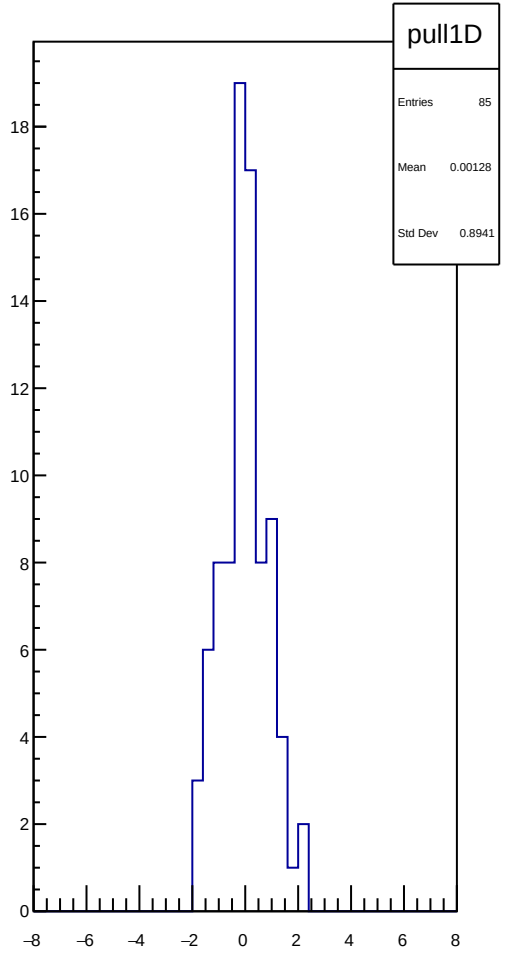

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.467e+05 / 84
p0 65.5 ± 0.05597
250
200
150
100
50

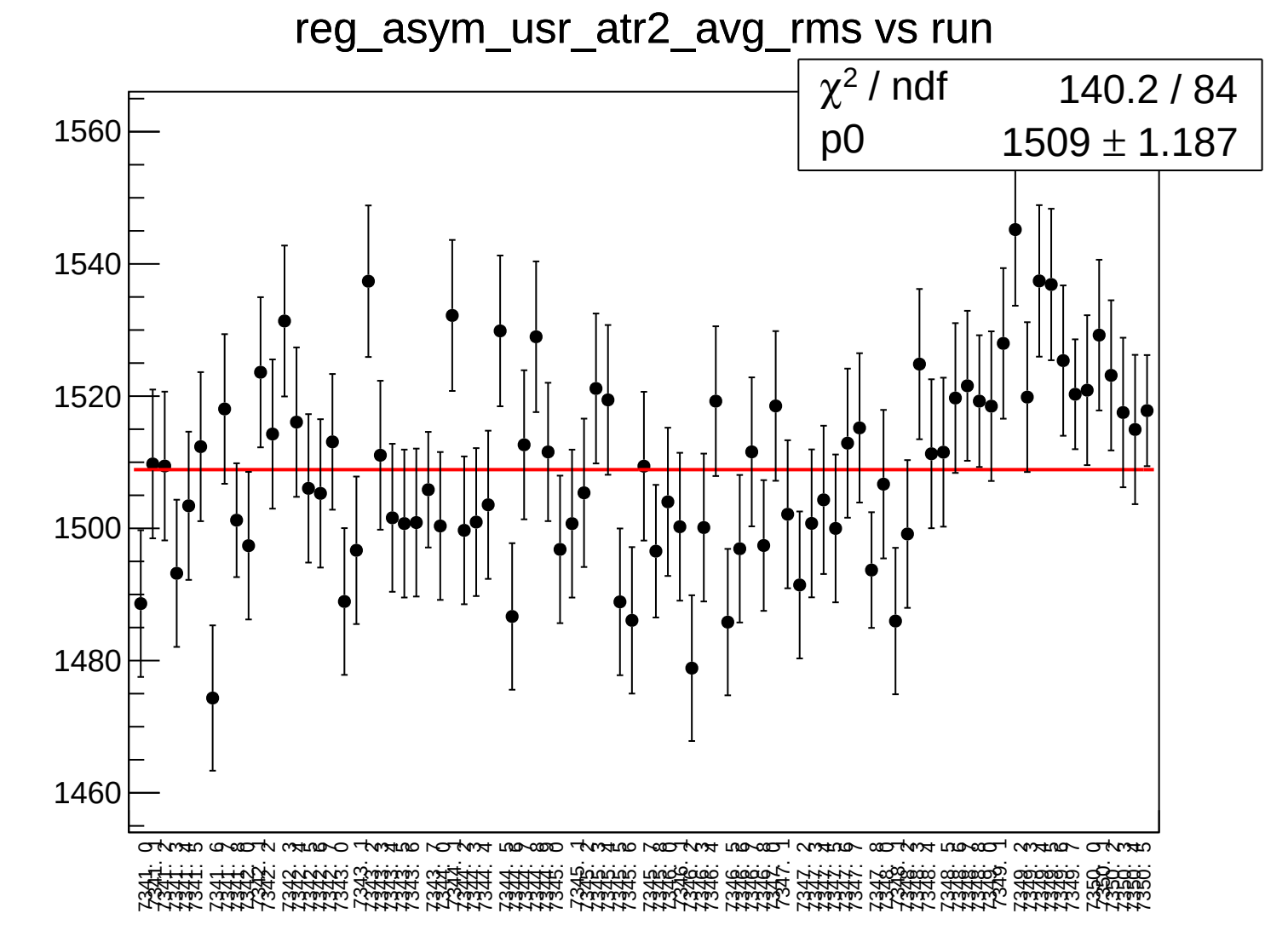

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.78 / 84
p0 −2.866e−15 ± 1.736e−14
pull
Entries 85
Mean 81.54
Std Dev 0

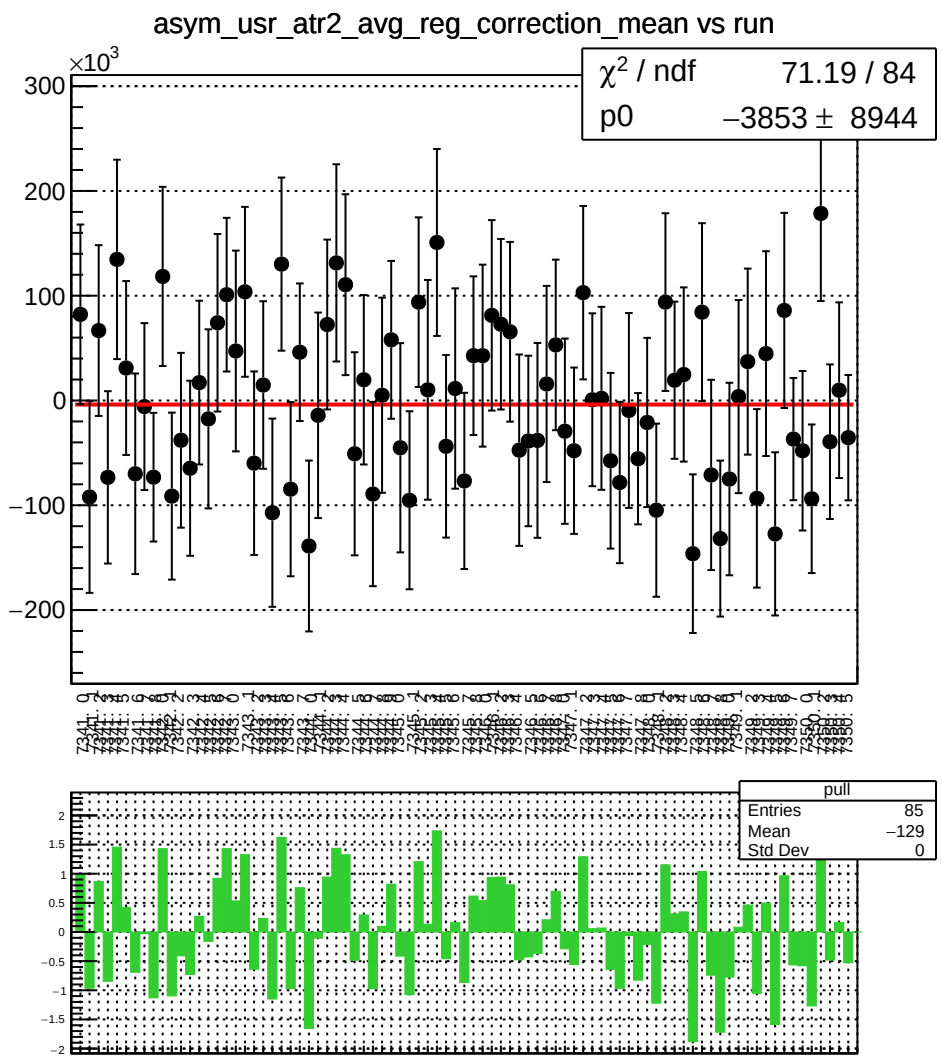

pull1D
Entries 85
Mean 0.0477
Std Dev 0.9177

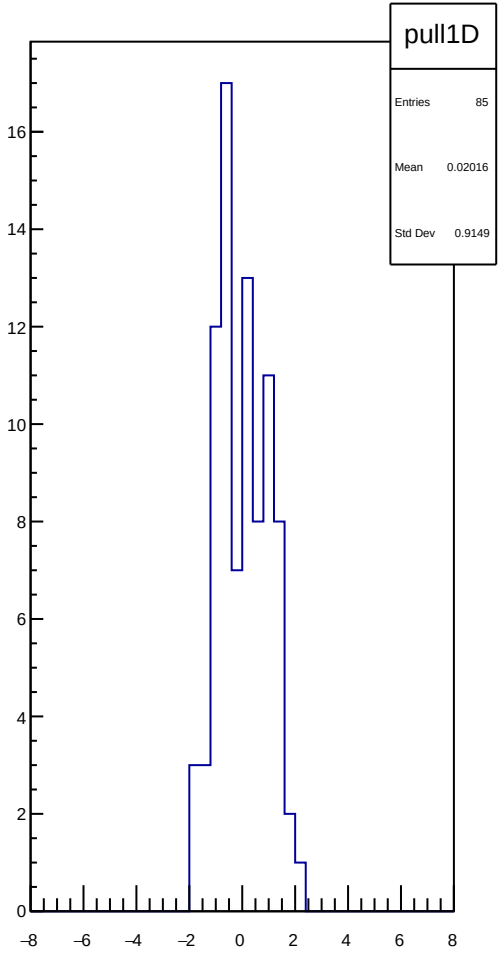

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.607e+05 / 84
p0 1.375e−11 ± 1.227e−14
50
40
30
20
10

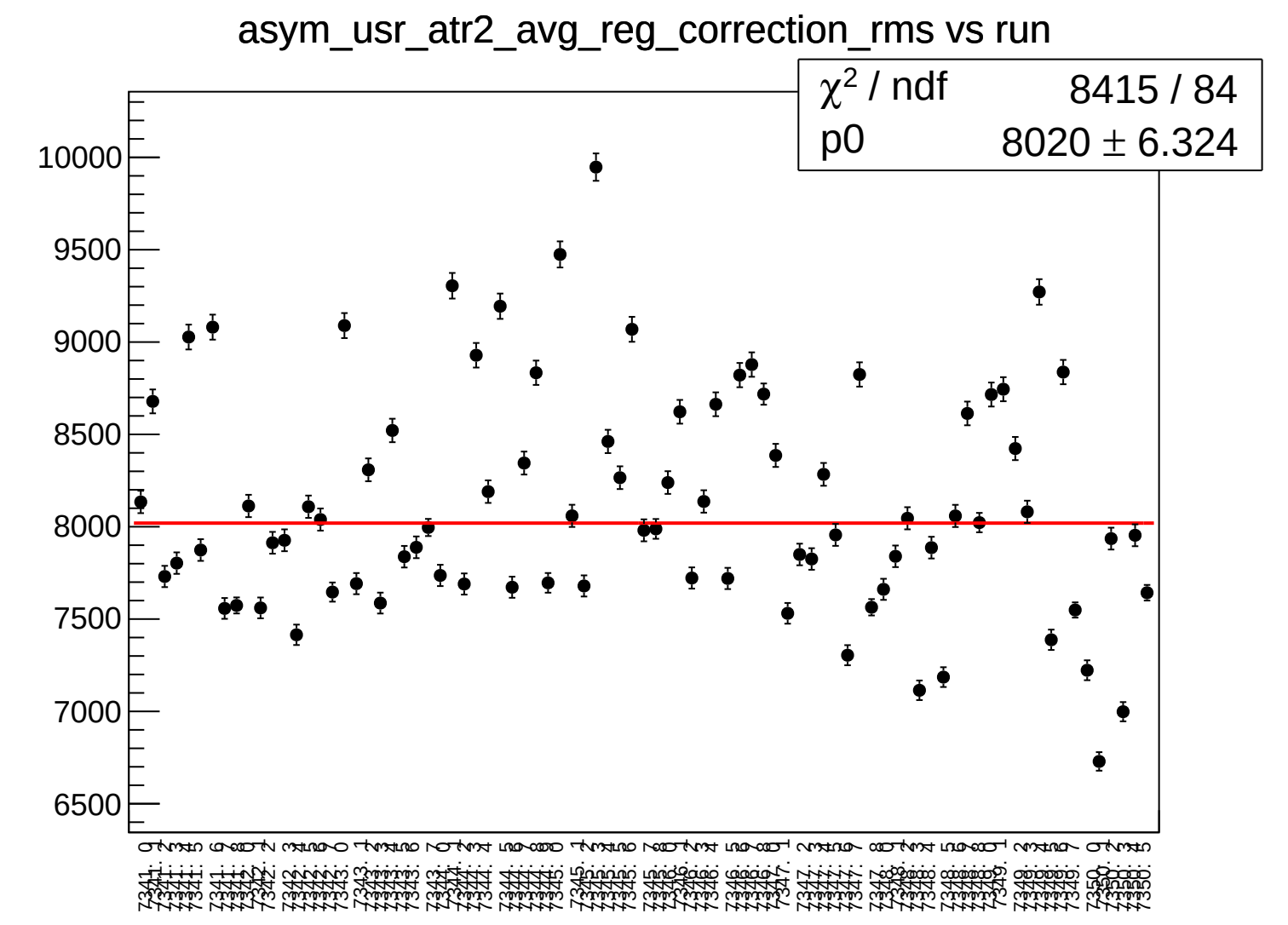

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 67.95 / 84
p0 3788 ± 1678
pull
Entries 85
Mean 847.1
Std Dev 0

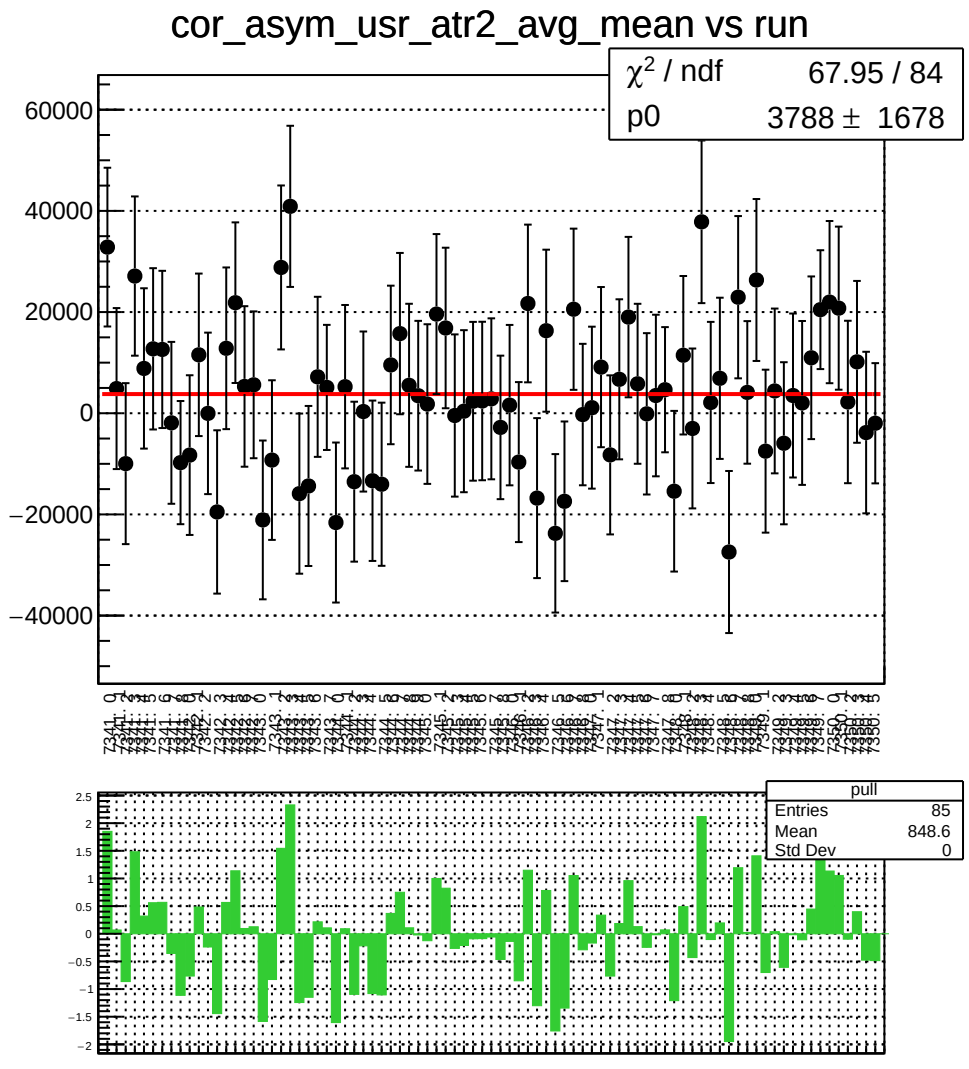

pull1D
Entries 85
Mean 0.00128
Std Dev 0.8941

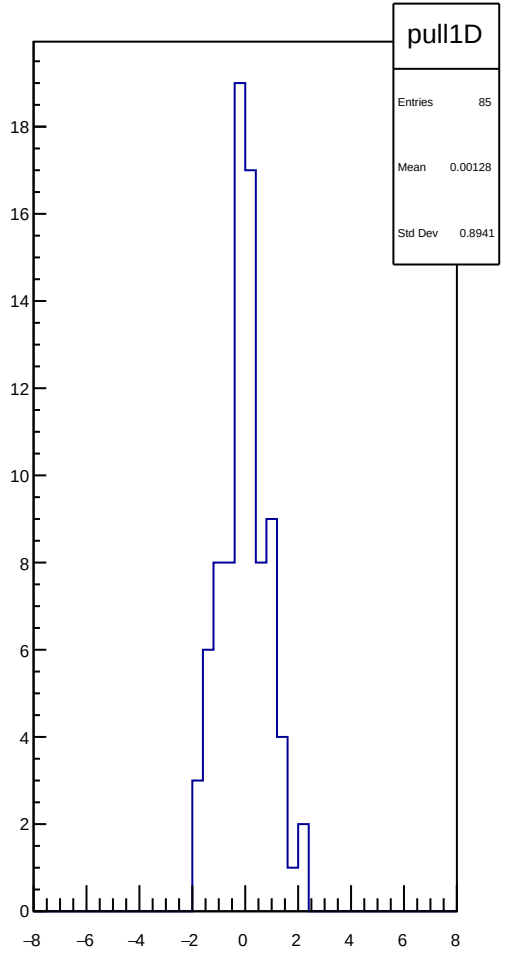

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 140.2 / 84
p0 1509 ± 1.187
1560
1540
1520
1500
1480
1460

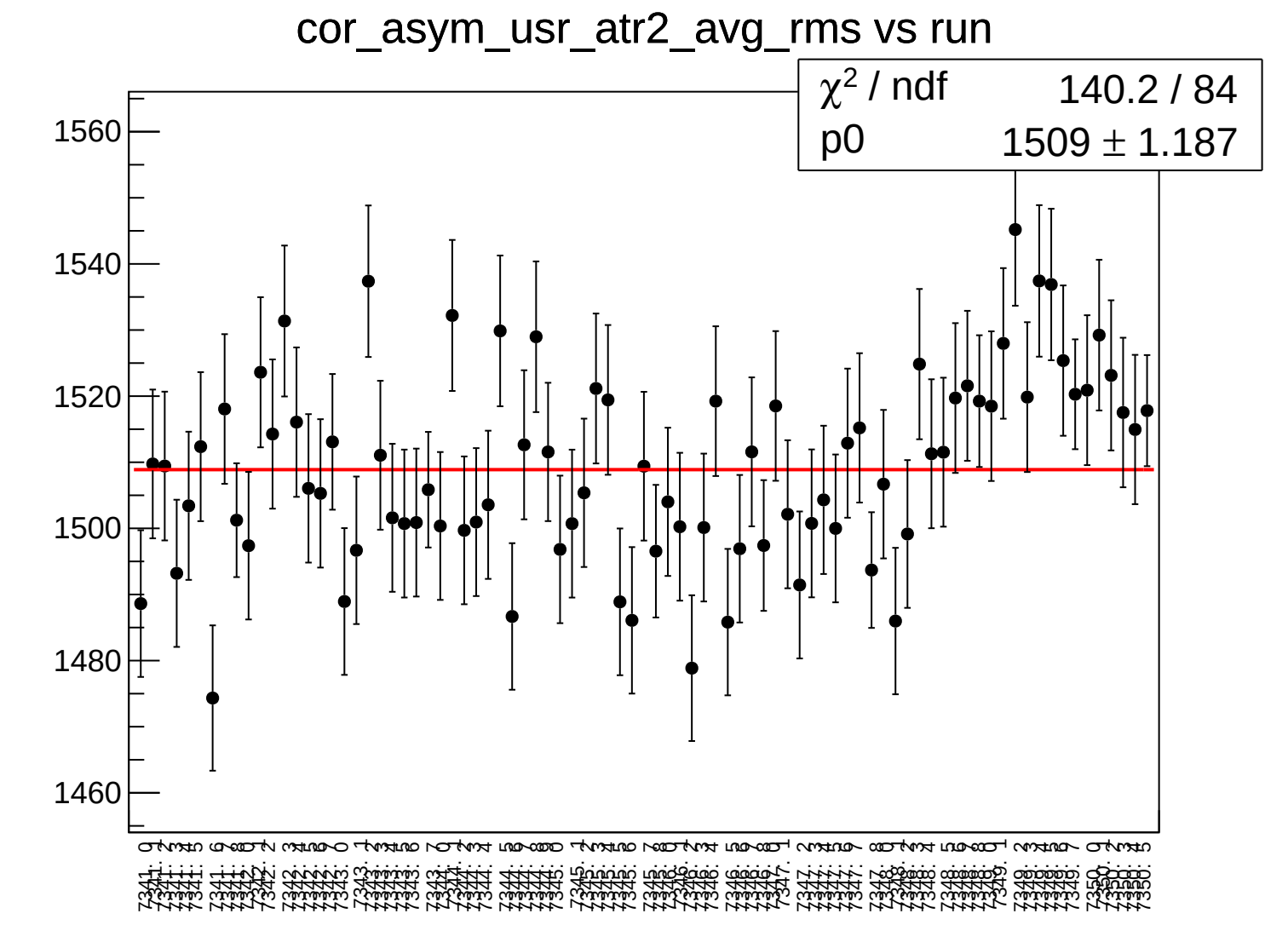

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 71.19 / 84
p0 −3853 ± 8944
pull
Entries 85
Mean −129
Std Dev 0

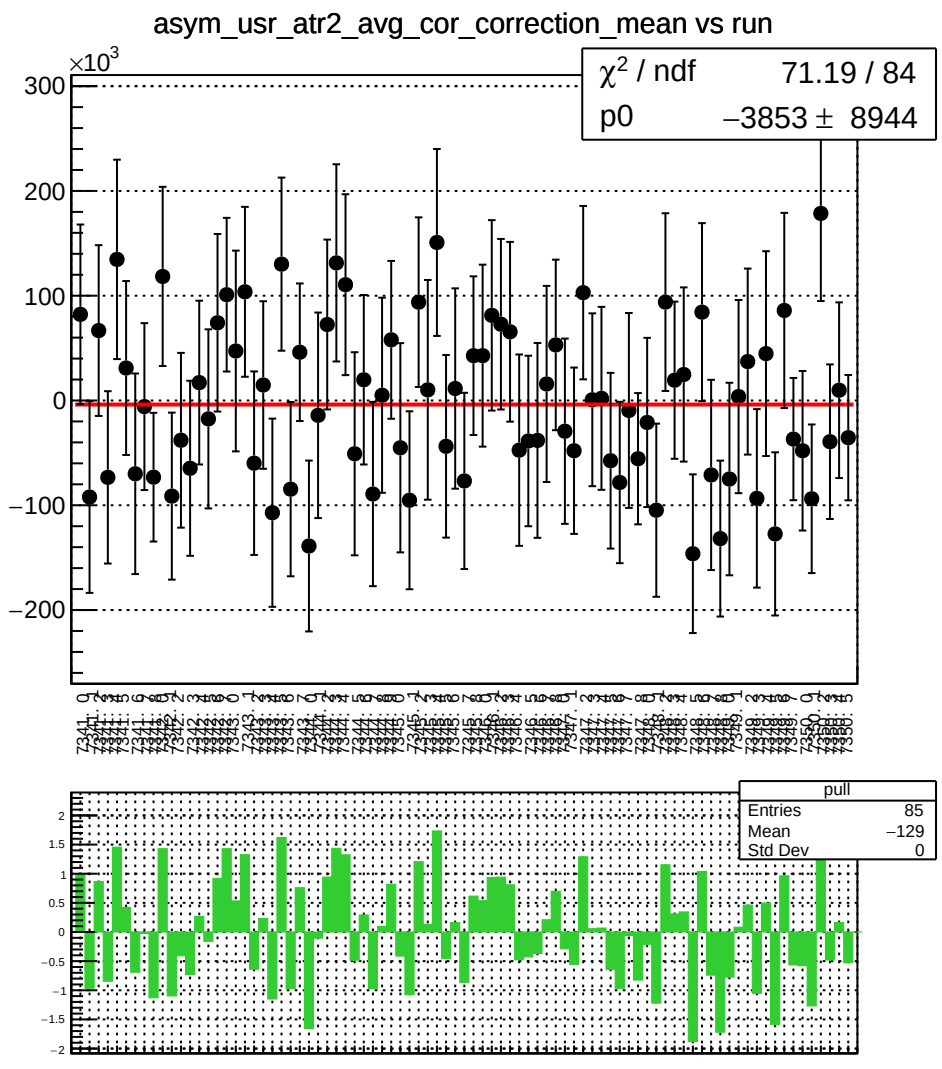

pull1D
Entries 85
Mean 0.02016
Std Dev 0.9149

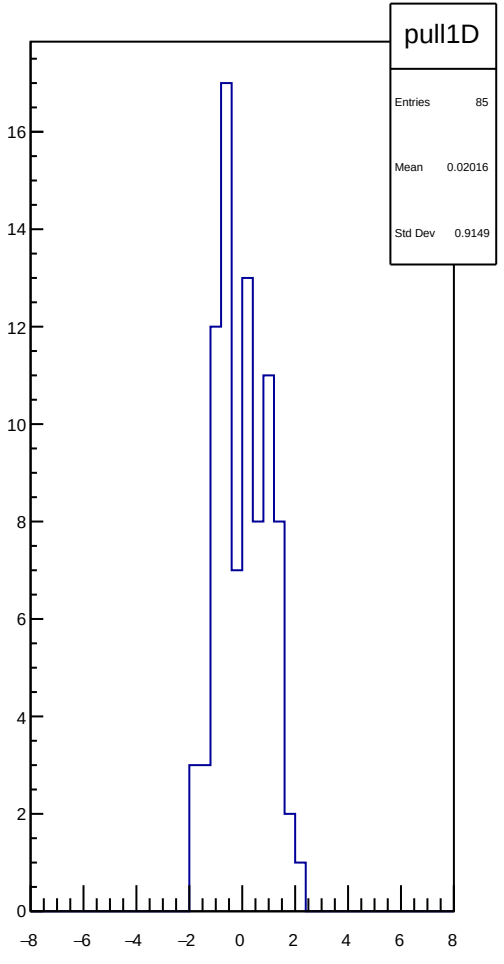

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 8415 / 84
p0 8020 ± 6.324
10000
9500
9000
8500
8000
7500
7000
6500

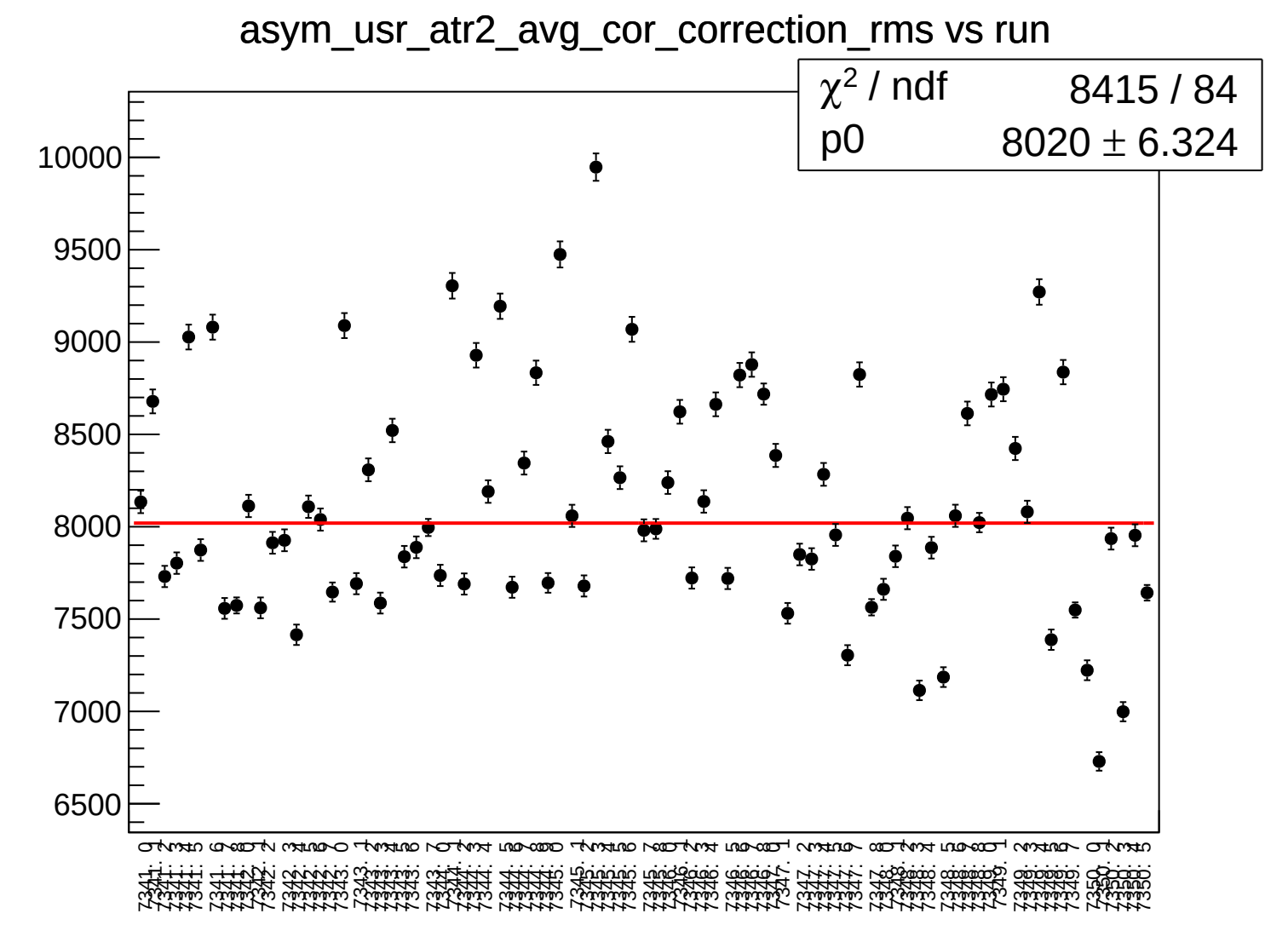

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 67.95 / 84
p0 3788 ± 1678
pull
Entries 85
Mean 848.6
Std Dev 0

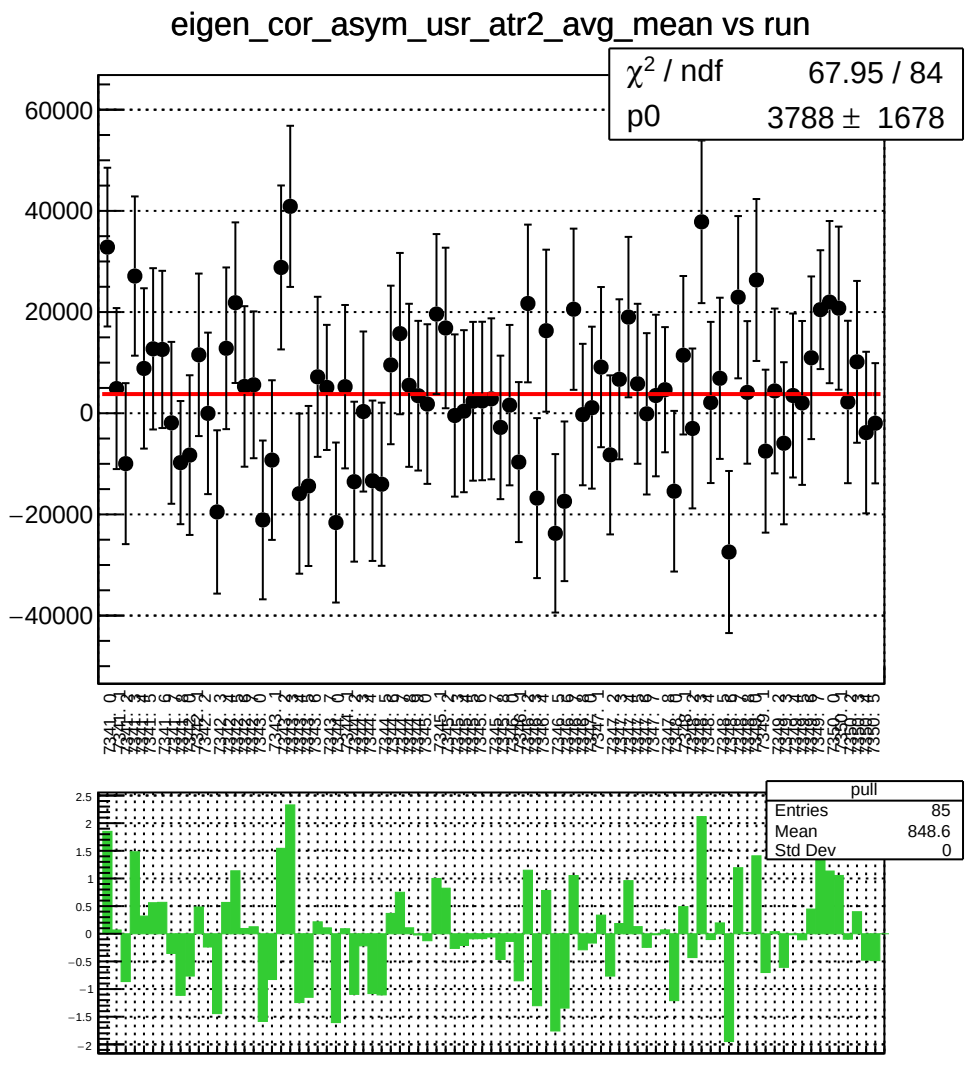

pull1D
Entries 85
Mean 0.00128
Std Dev 0.8941

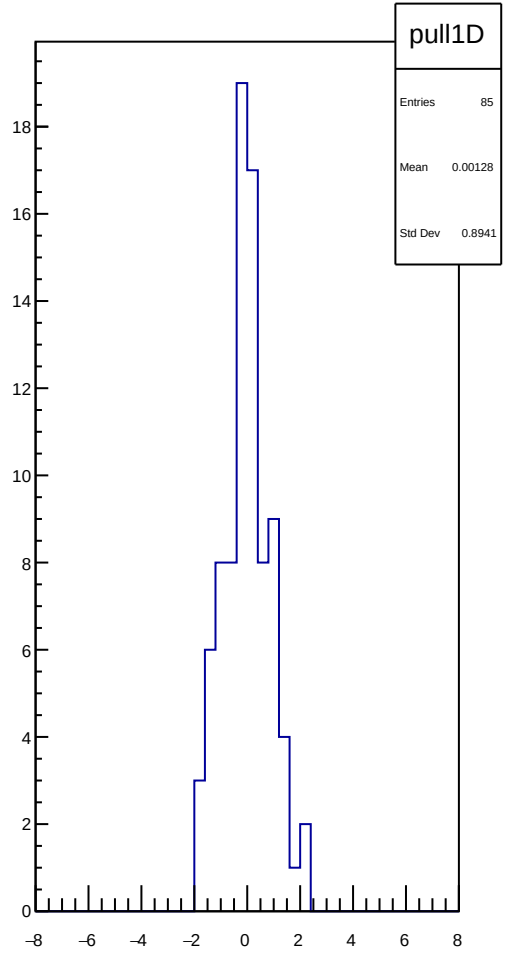

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 140.2 / 84
p0 1509 ± 1.187
1560
1540
1520
1500
1480
1460

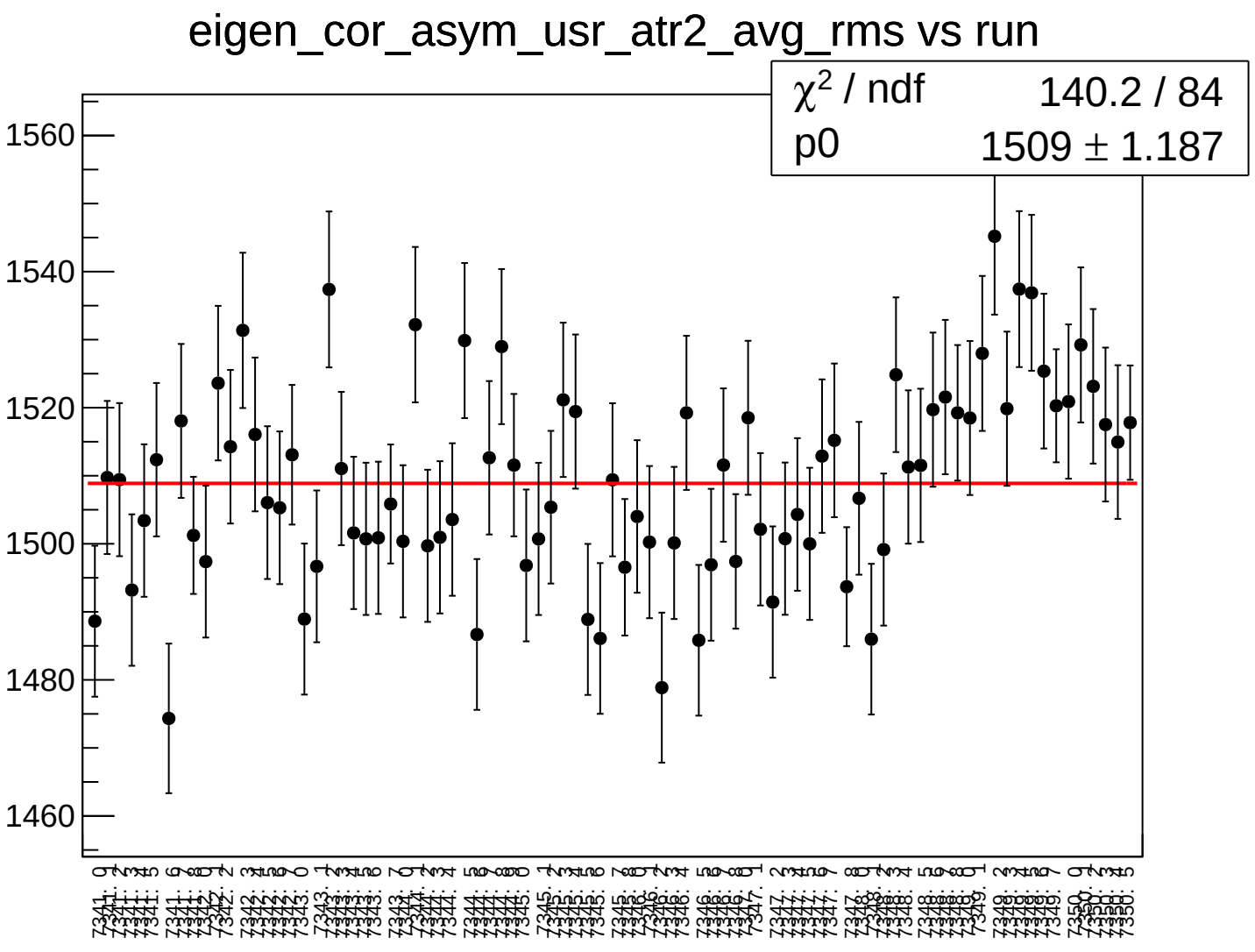

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 71.19 / 84
p0 −3853 ± 8944
pull
Entries 85
Mean −129
Std Dev 0

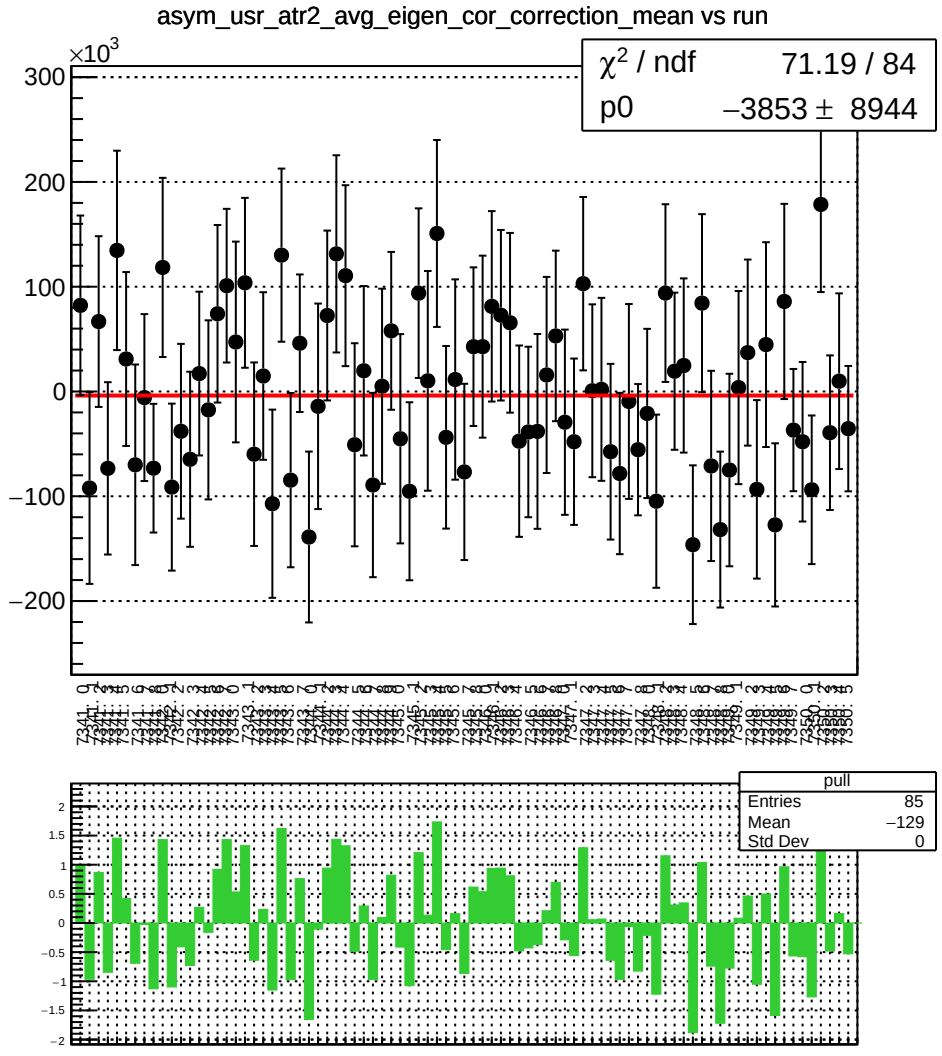

pull1D
Entries 85
Mean 0.02016
Std Dev 0.9149

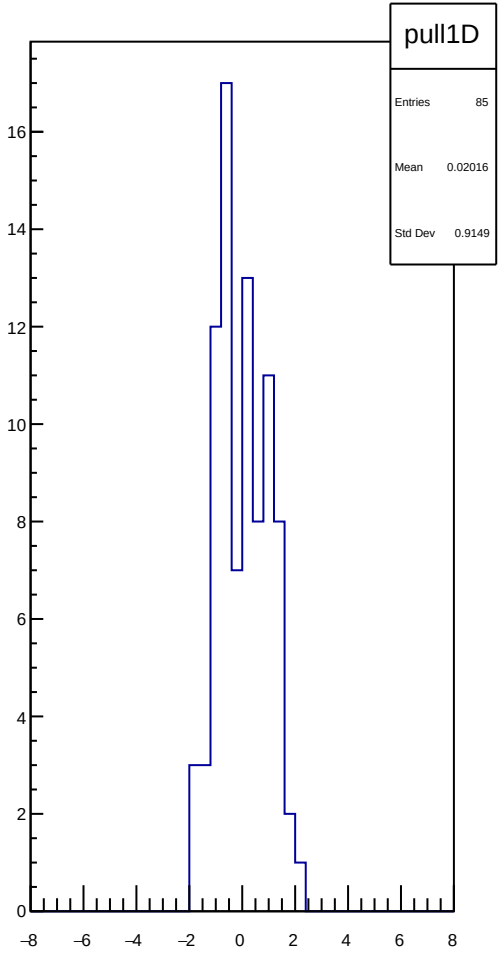

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 8415 / 84
p0 8020 ± 6.324
10000
9500
9000
8500
8000
7500
7000
6500

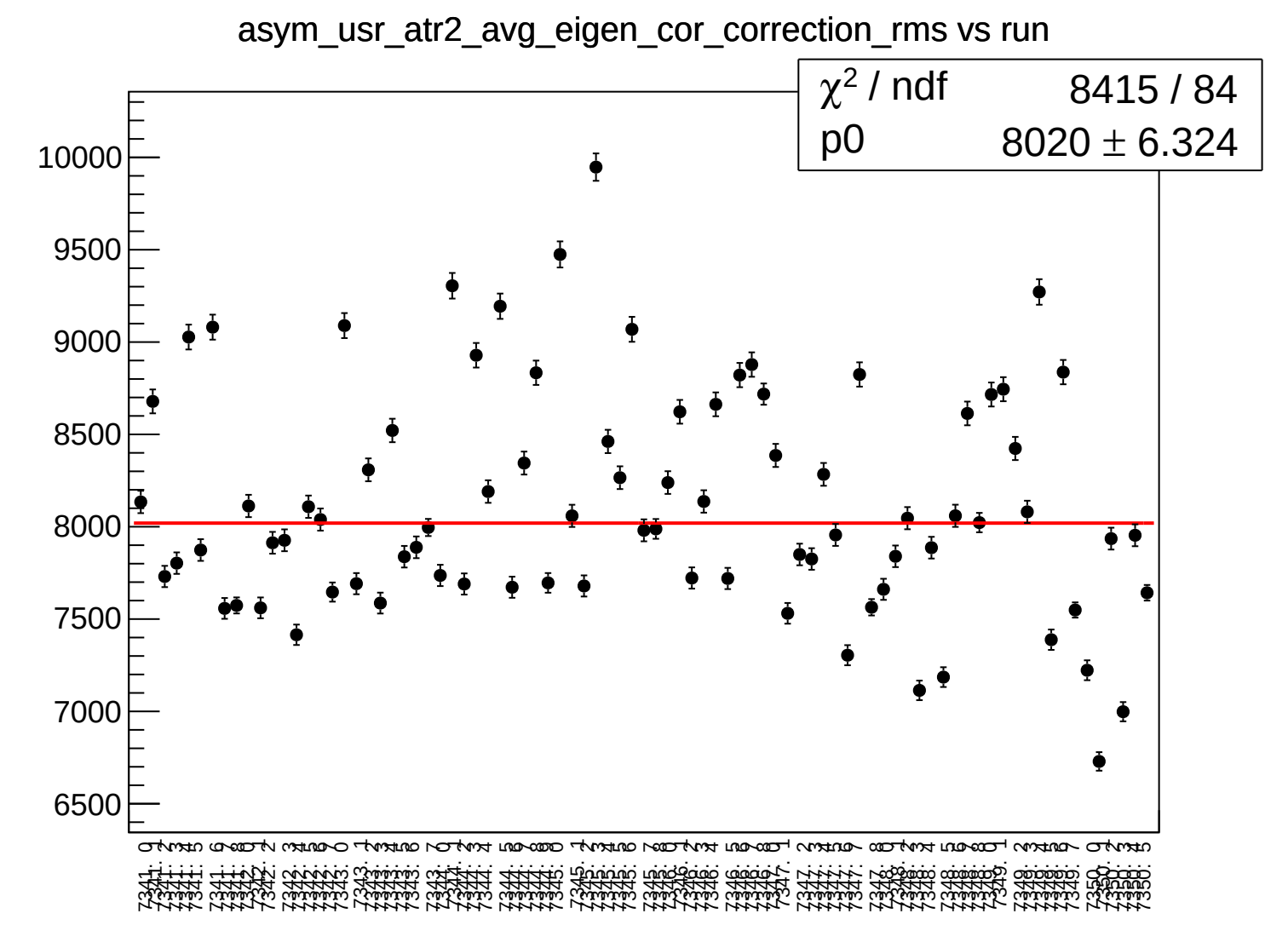

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 67.95 / 84
p0 3788 ± 1678
pull
Entries 85
Mean 848.6
Std Dev 0

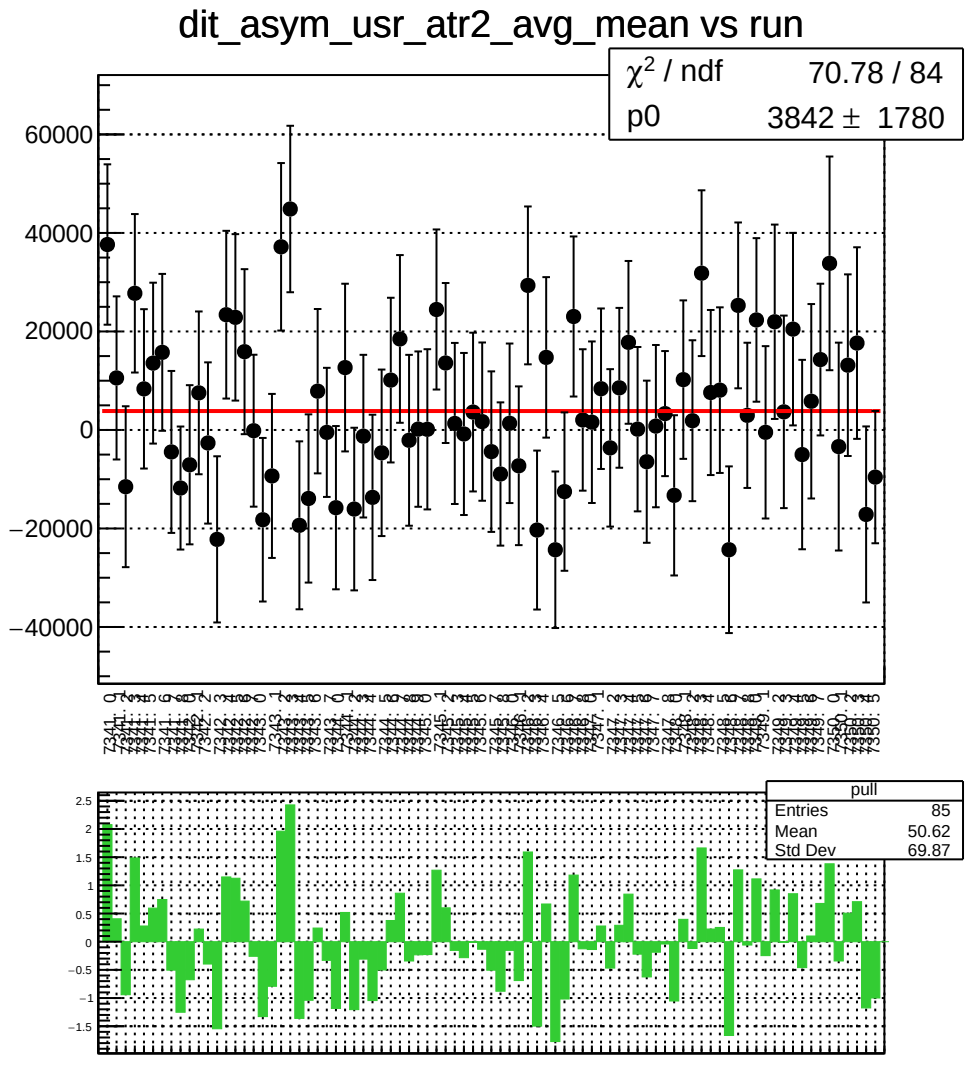

pull1D
Entries 85
Mean 0.00128
Std Dev 0.8941

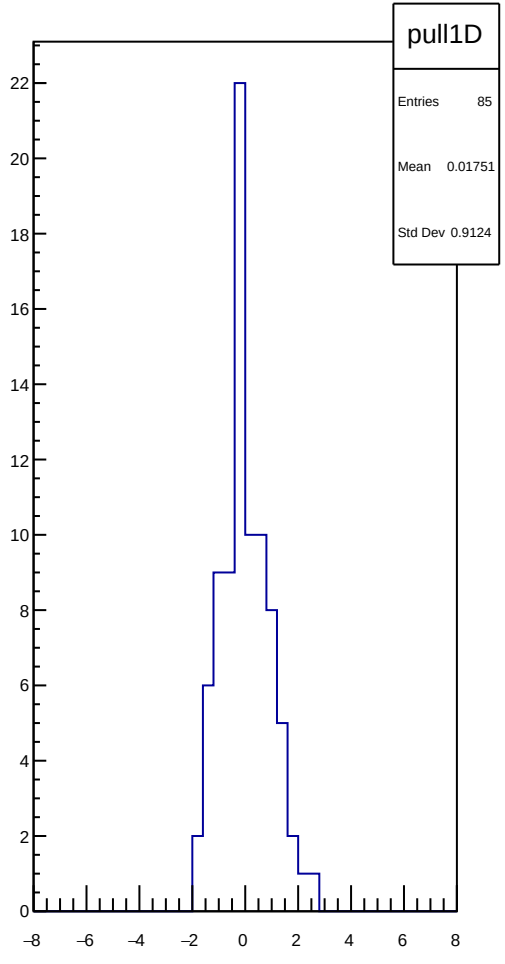

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 140.2 / 84
p0 1509 ± 1.187
1560
1540
1520
1500
1480
1460

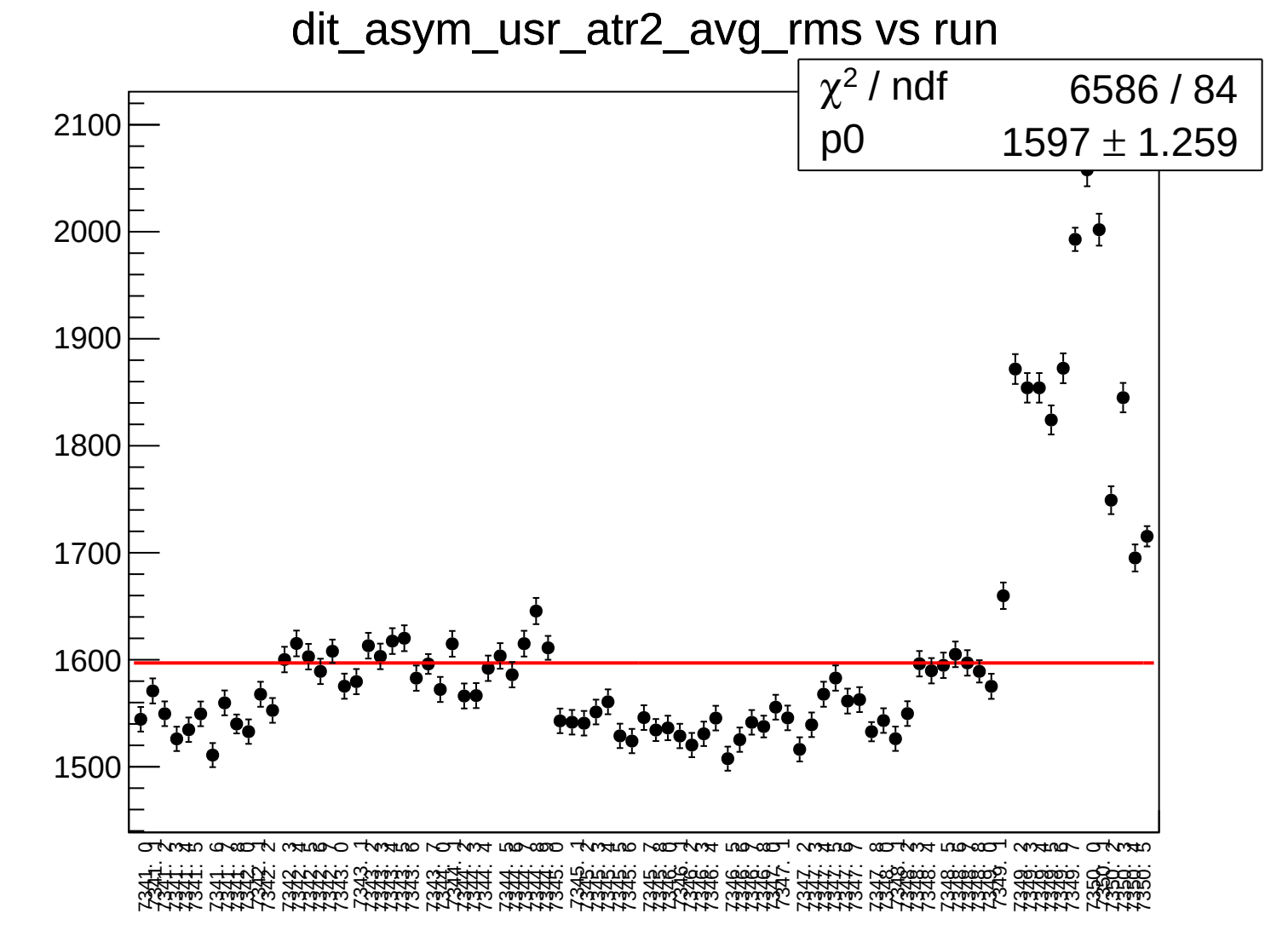

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 71.19 / 84
p0 −3853 ± 8944
pull
Entries 85
Mean −129
Std Dev 0

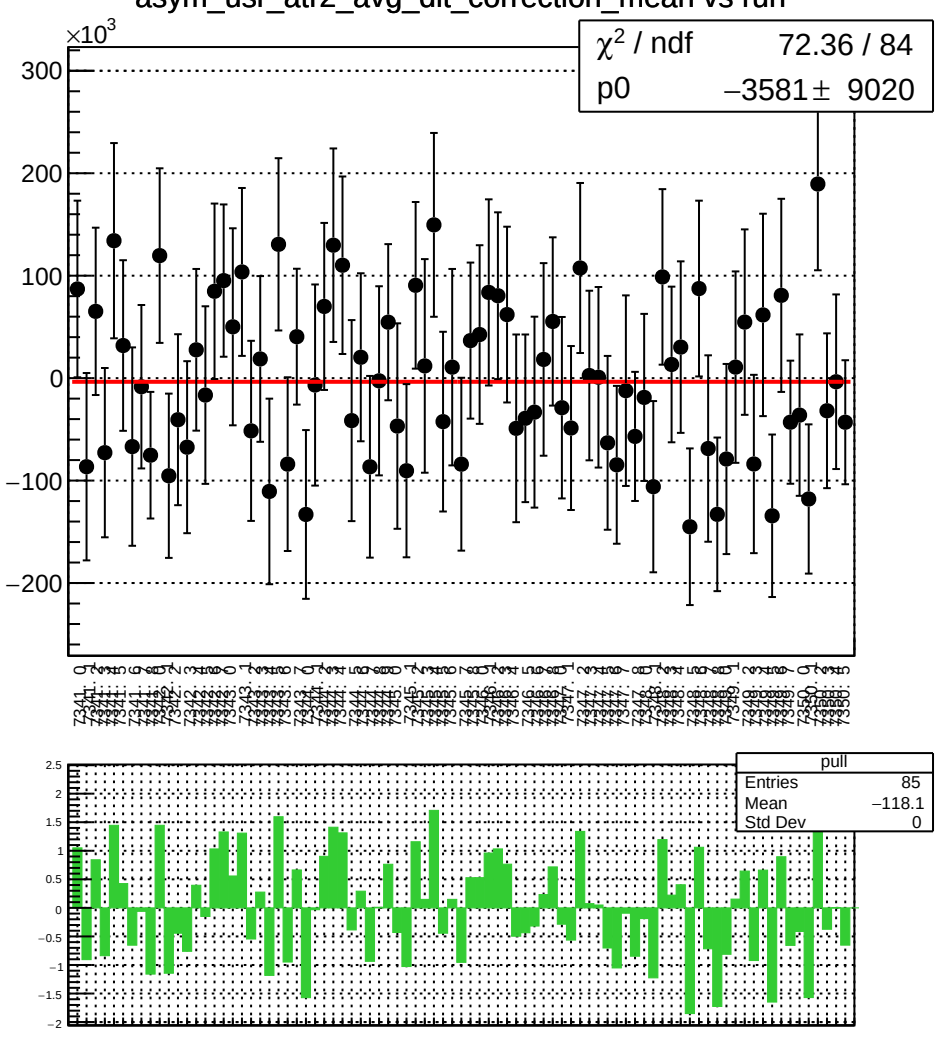

pull1D
Entries 85
Mean 0.02016
Std Dev 0.9149

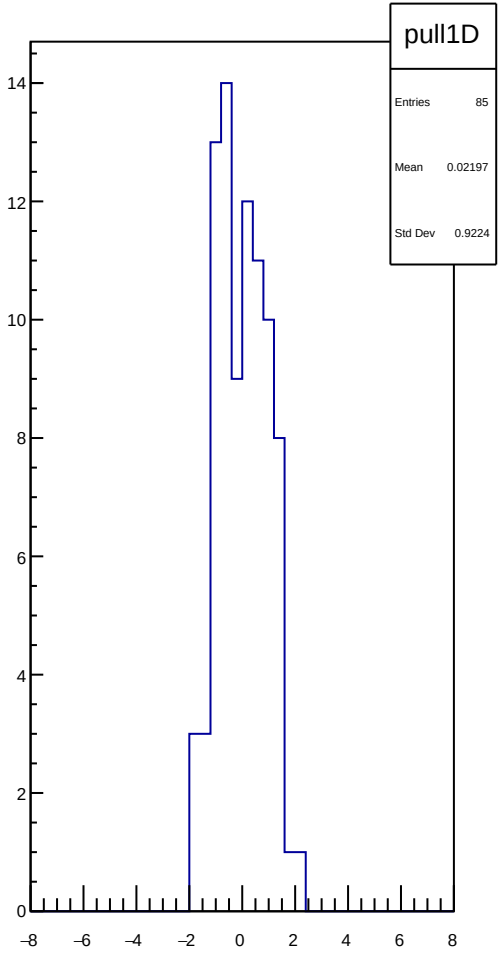

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 8415 / 84
p0 8020 ± 6.324
10000
9500
9000
8500
8000
7500
7000
6500

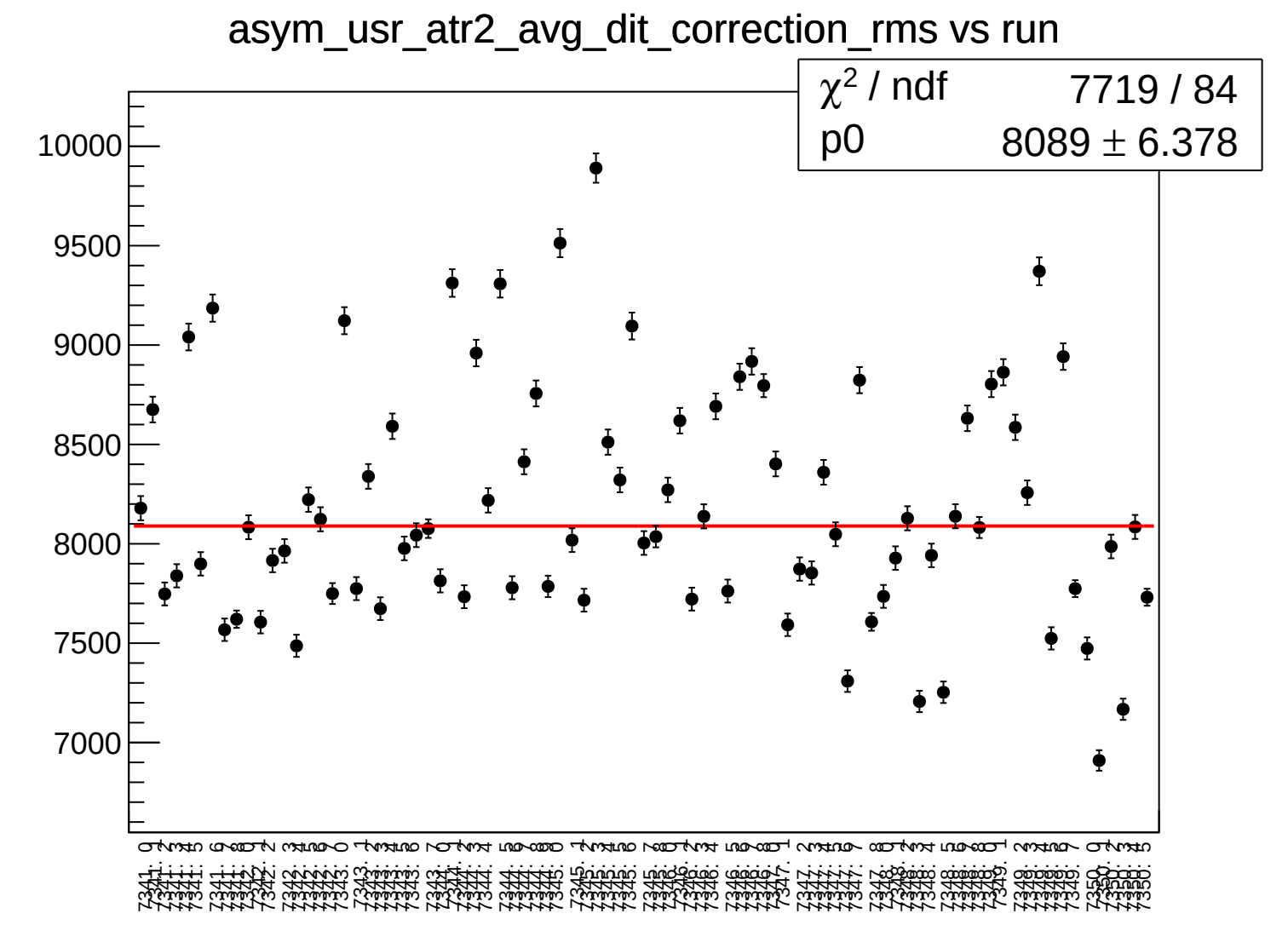

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 70.78 / 84
p0 3842 ± 1780
pull
Entries 85
Mean 50.62
Std Dev 69.87

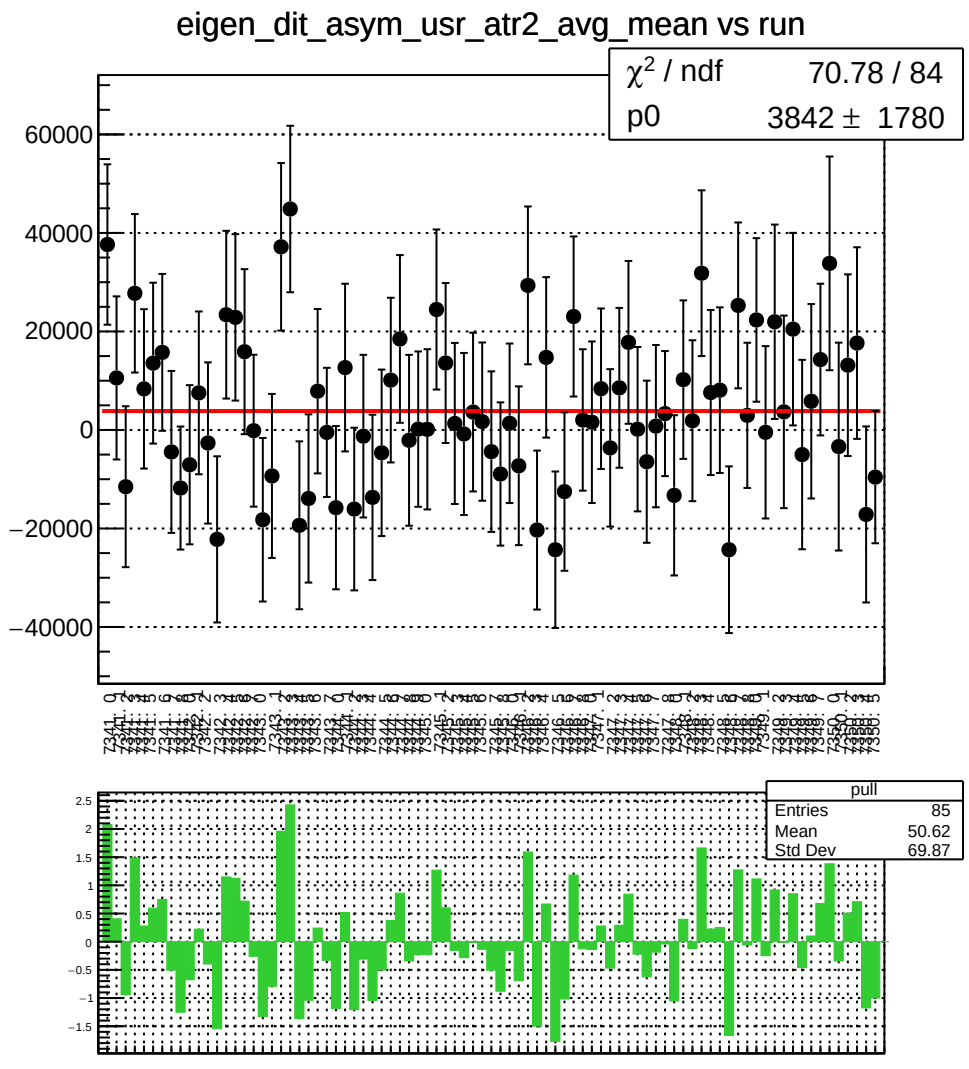

pull1D
Entries 85
Mean 0.01751
Std Dev 0.9124

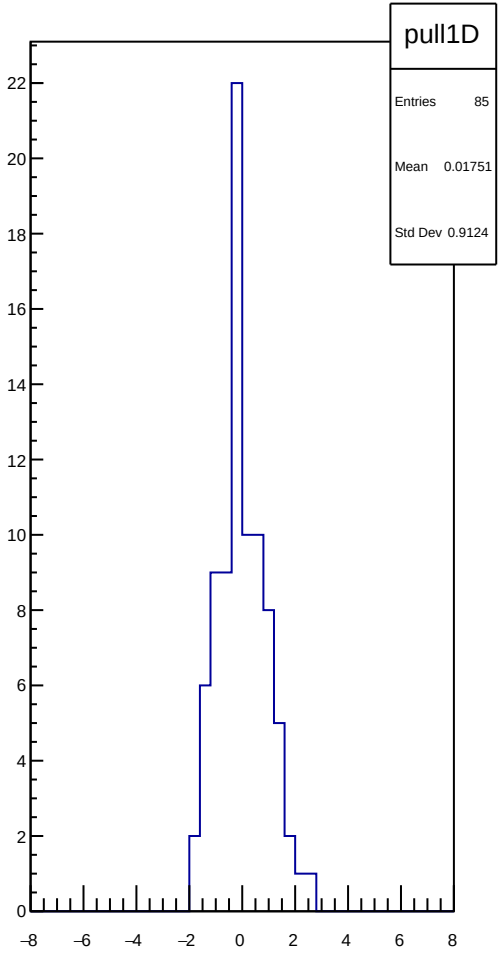

dit_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 6586 / 84
p0 1597 ± 1.259
2100
2000
1900
1800
1700
1600
1500

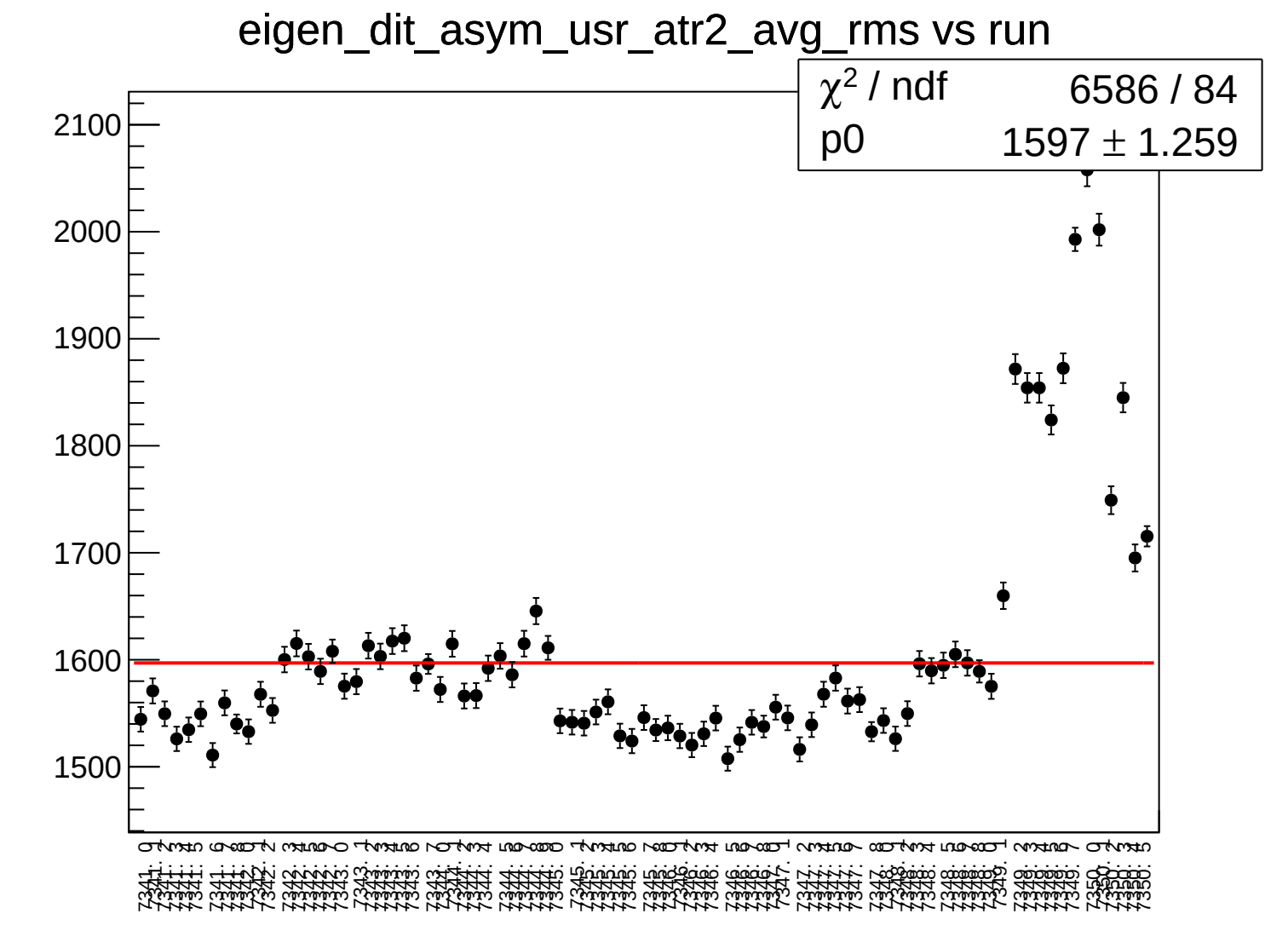

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 72.36 / 84
p0 −3581 ± 9020
pull
Entries 85
Mean −118.1
Std Dev 0

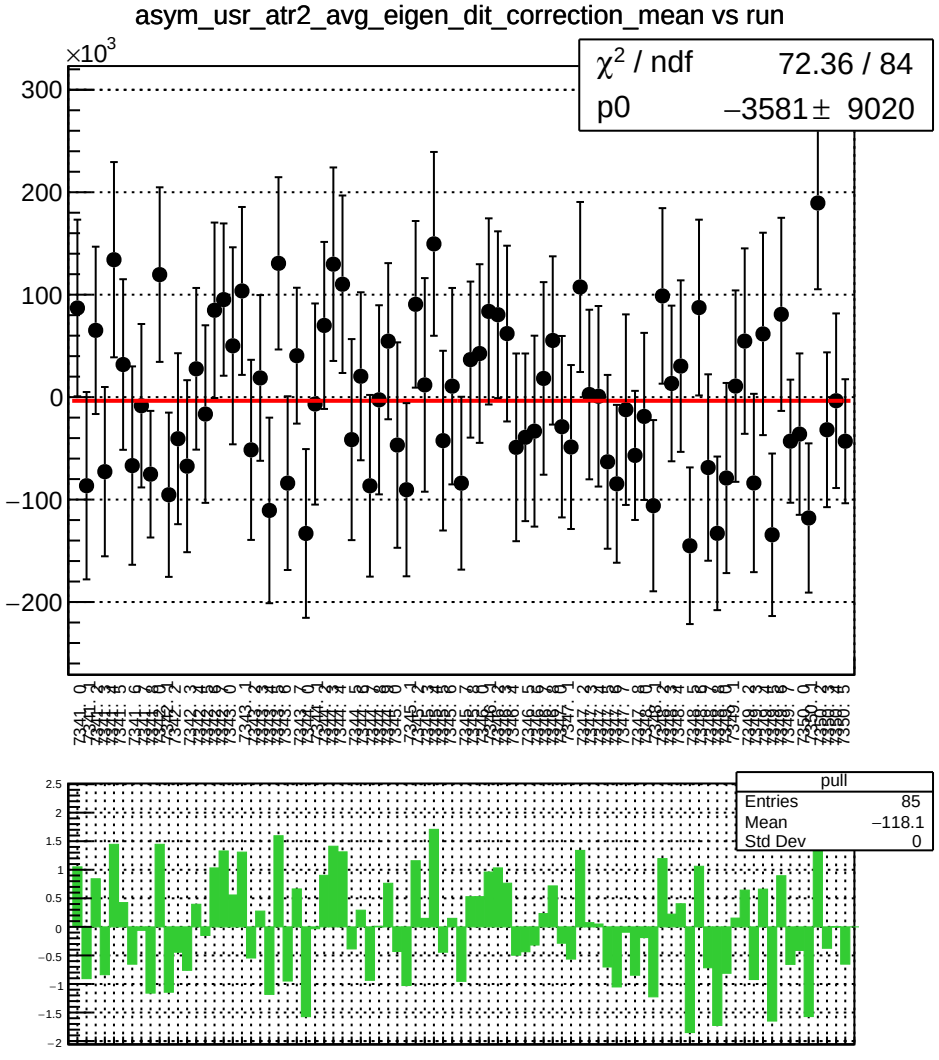

pull1D
Entries 85
Mean 0.02197
Std Dev 0.9224

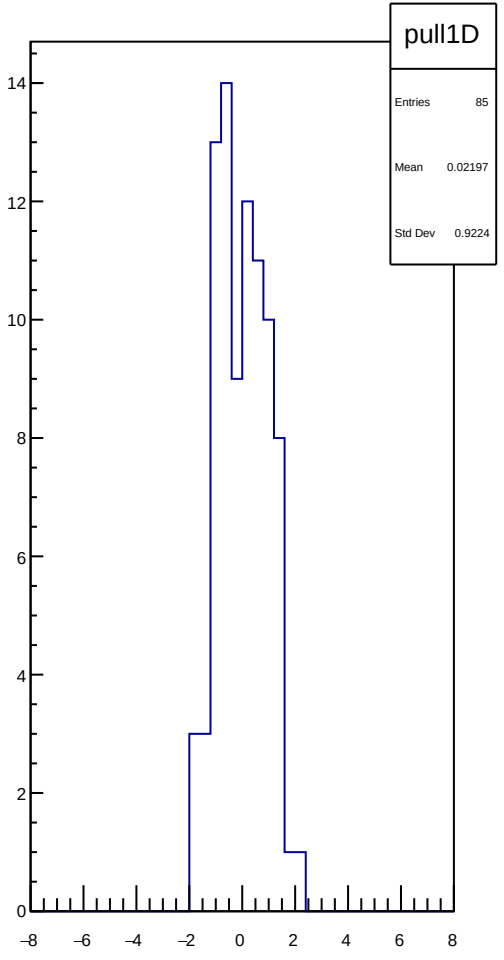

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 7719 / 84
p0 8089 ± 6.378
10000
9500
9000
8500
8000
7500
7000

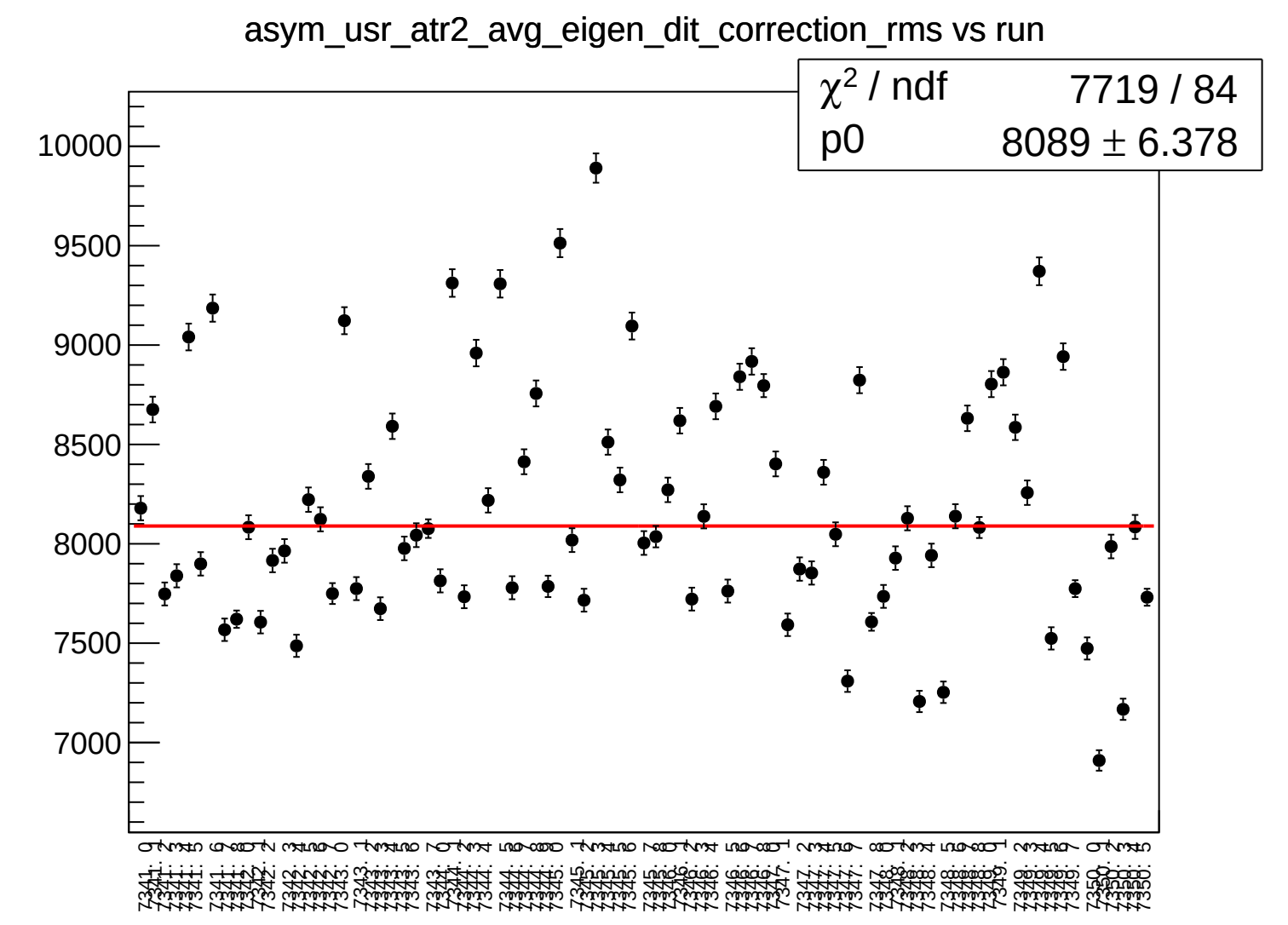

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 70.78 / 84
p0 3842 ± 1780
pull
Entries 85
Mean 50.62
Std Dev 69.87

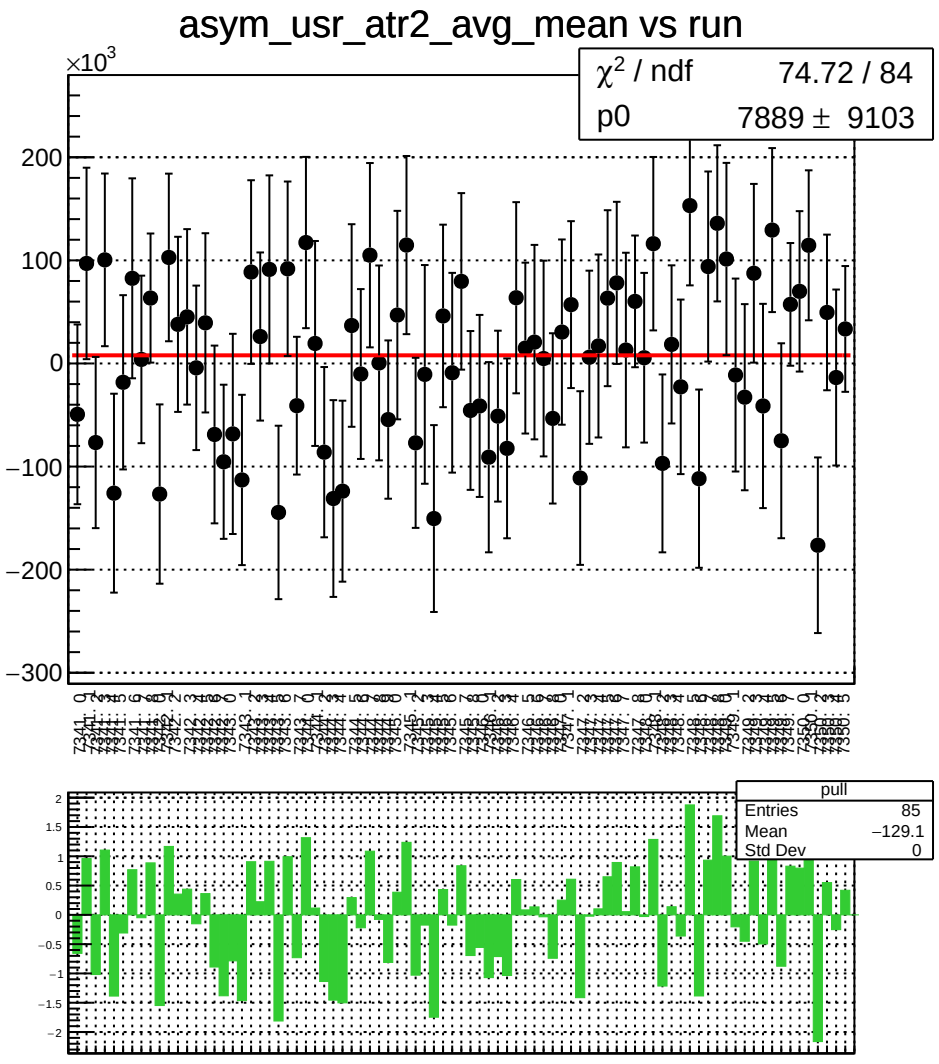

pull1D
Entries 85
Mean 0.01751
Std Dev 0.9124

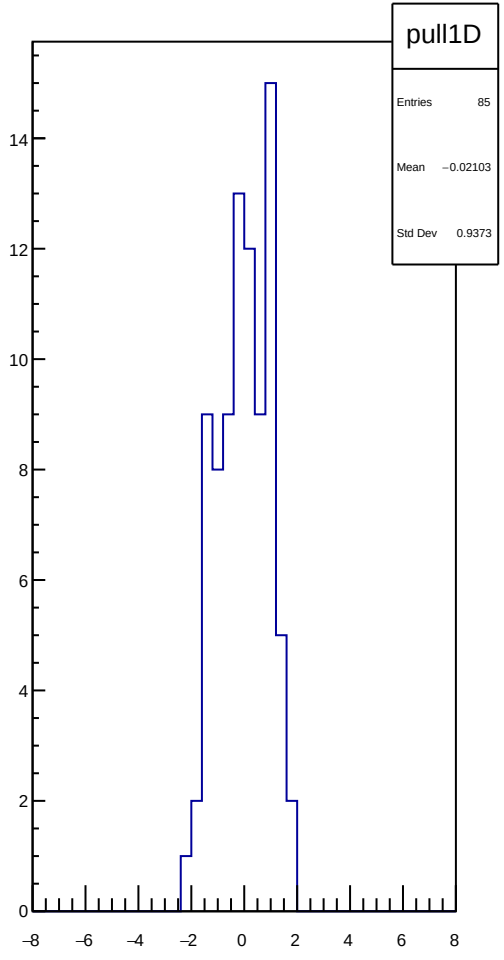

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 6586 / 84
p0 1597 ± 1.259
2100
2000
1900
1800
1700
1600
1500

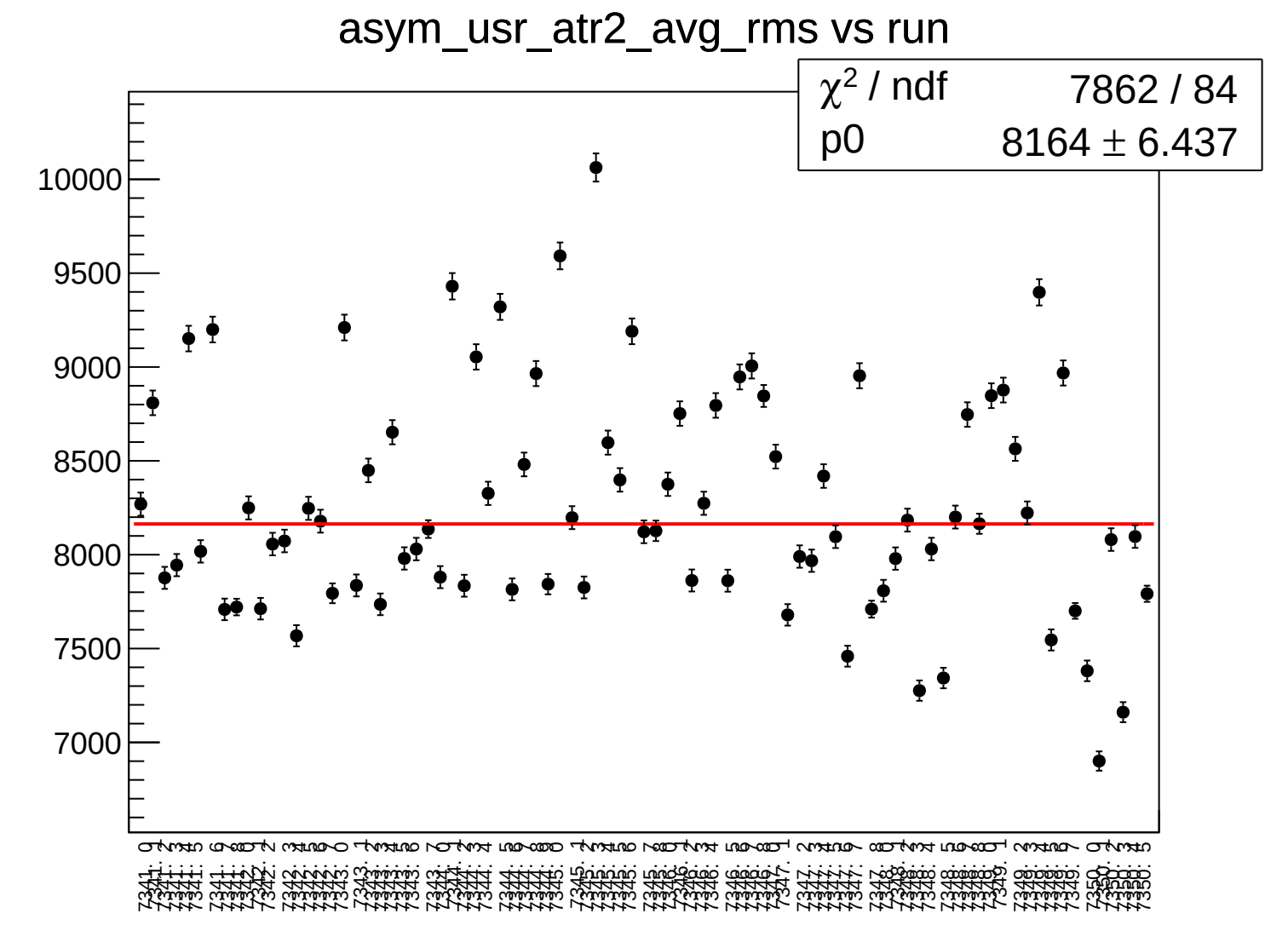

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.36 / 84
p0 −3581 ± 9020
pull
Entries 85
Mean −118.1
Std Dev 0

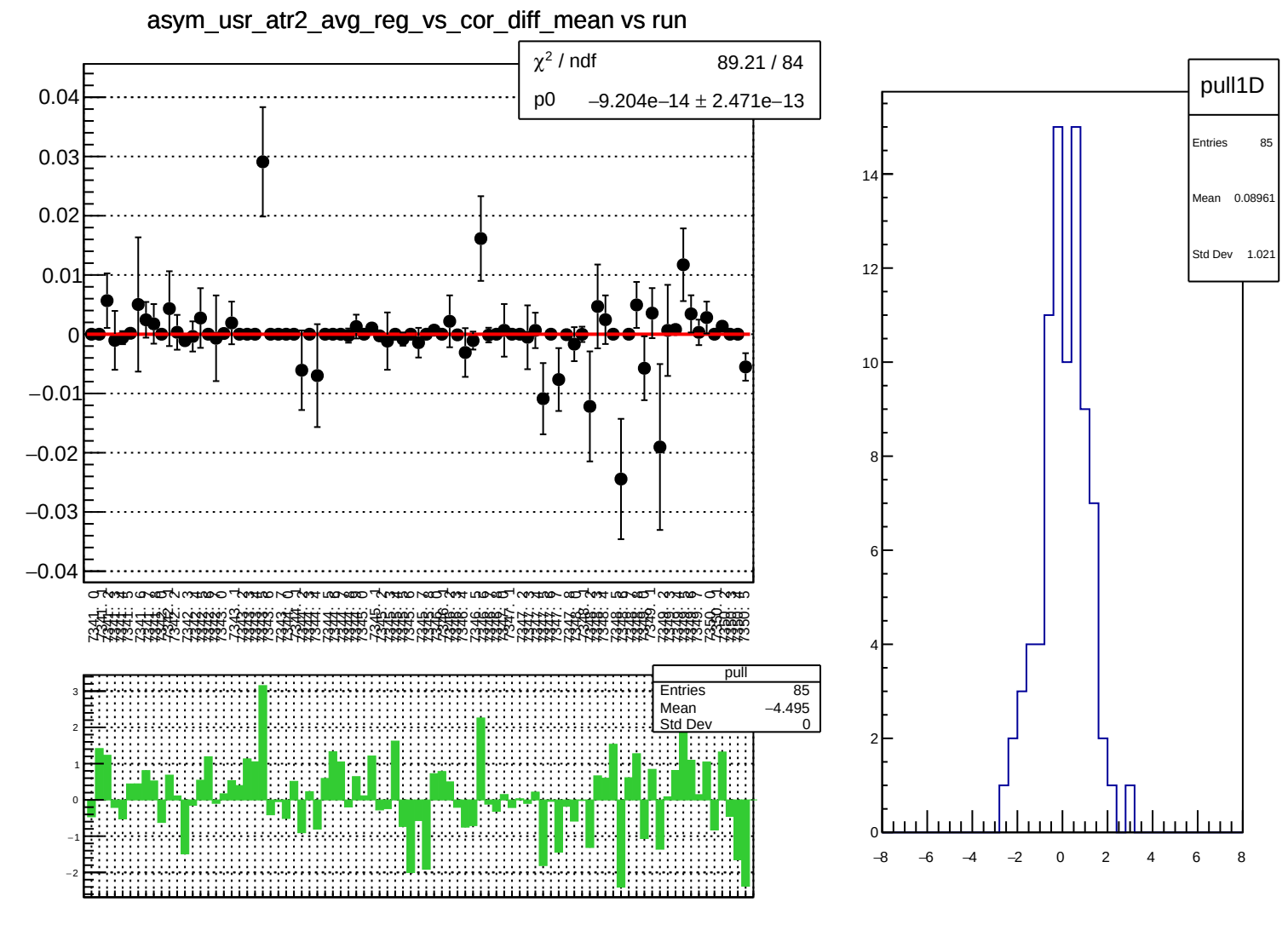

pull1D
Entries 85
Mean 0.02197
Std Dev 0.9224

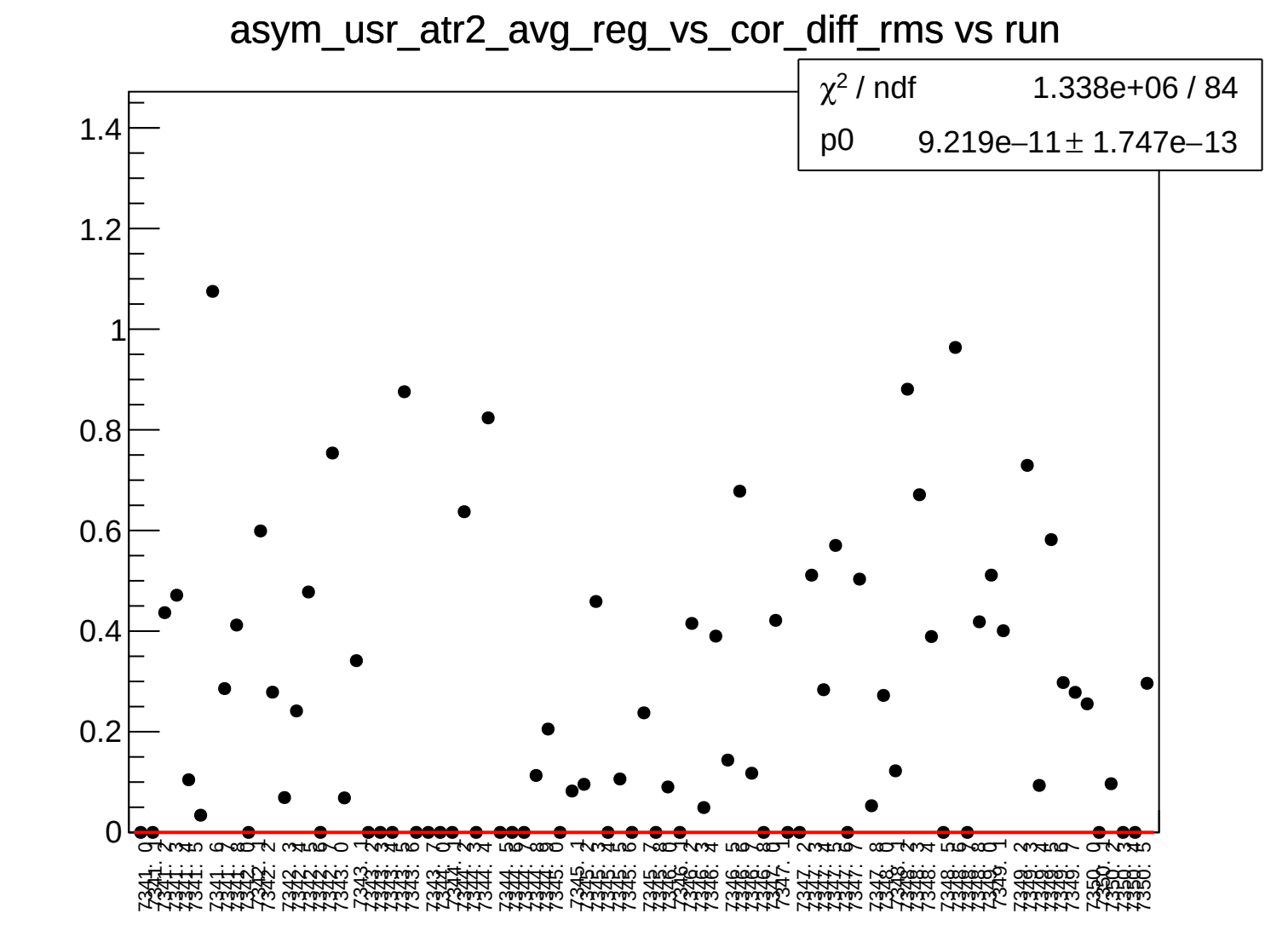

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7719 / 84
p0 8089 ± 6.378
10000
9500
9000
8500
8000
7500
7000

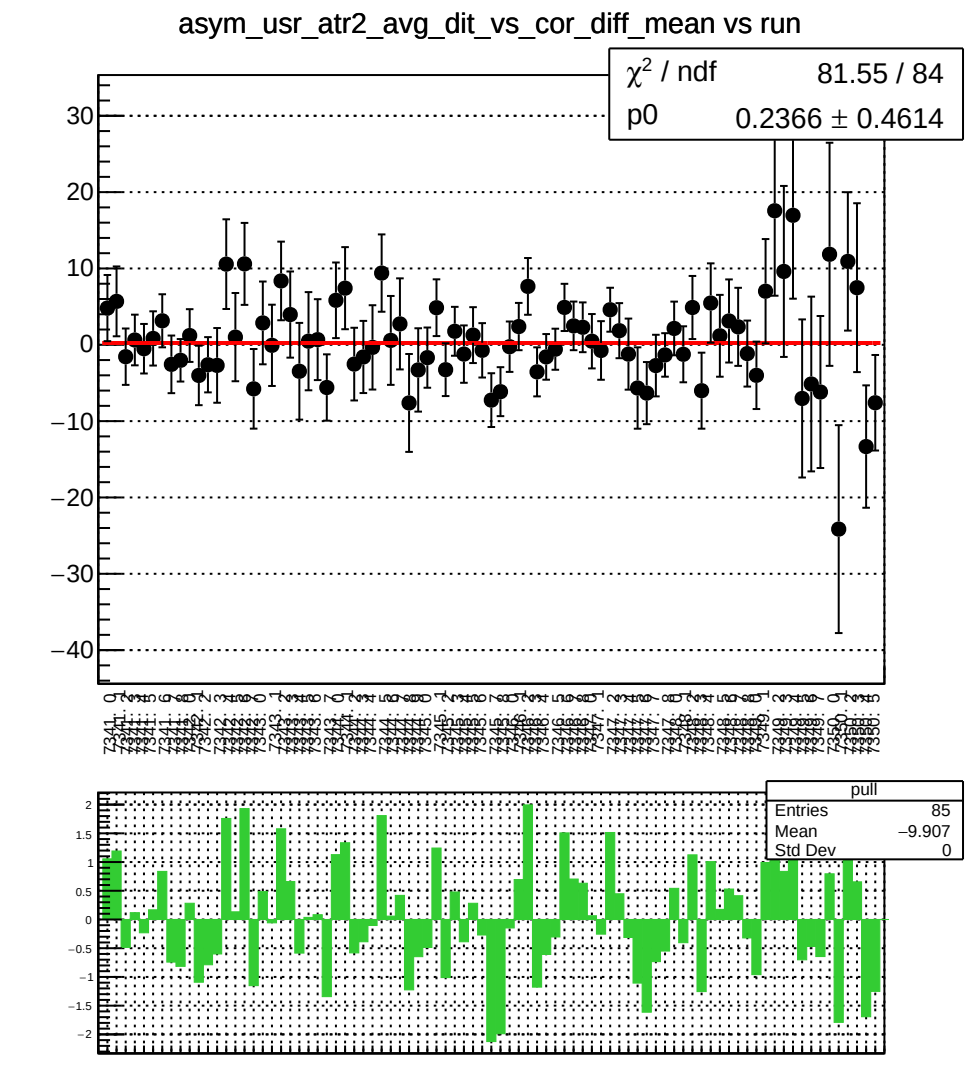

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 74.72 / 84
p0 7889 ± 9103
200
100
0
−100
−200
−300
pull
Entries 85
Mean −129.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

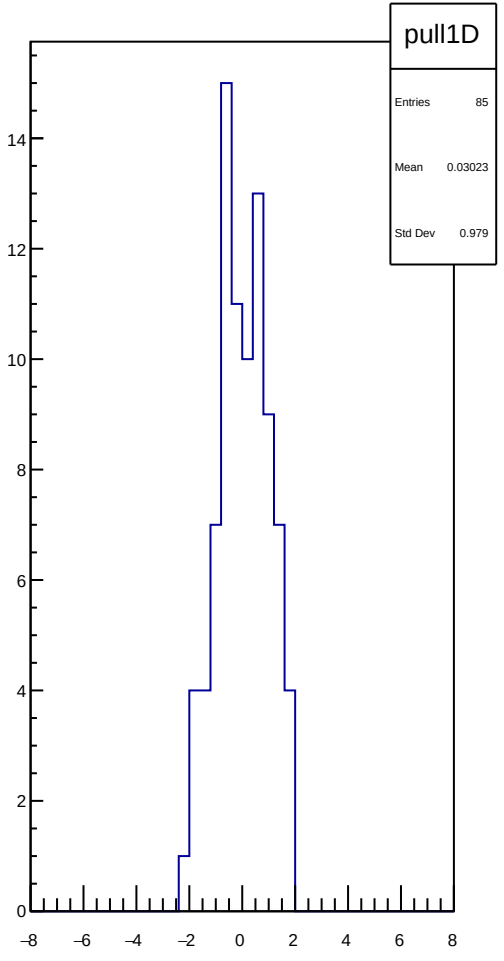

pull1D
Entries 85
Mean −0.02103
Std Dev 0.9373
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

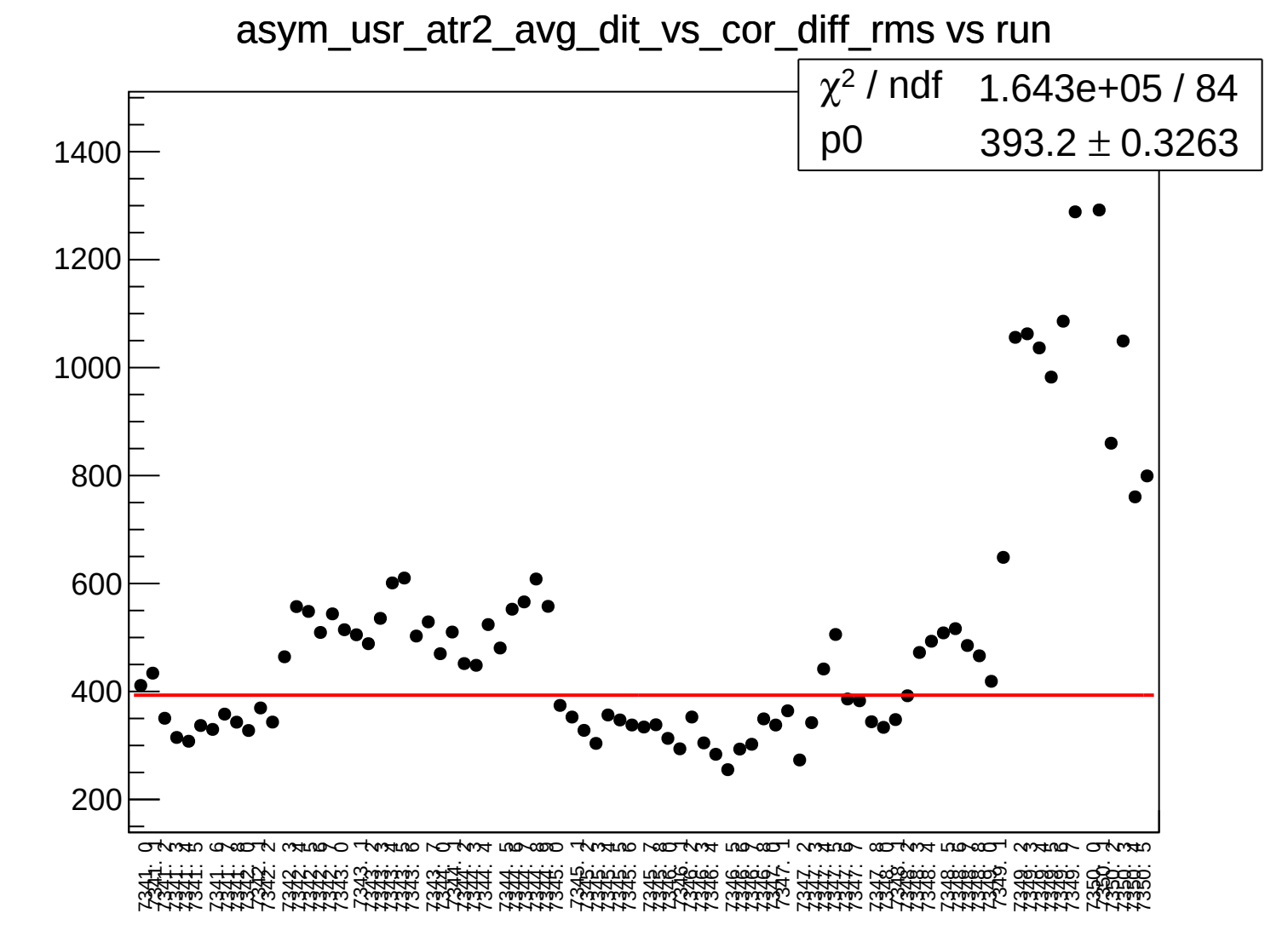

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 7862 / 84
p0 8164 ± 6.437
10000
9500
9000
8500
8000
7500
7000

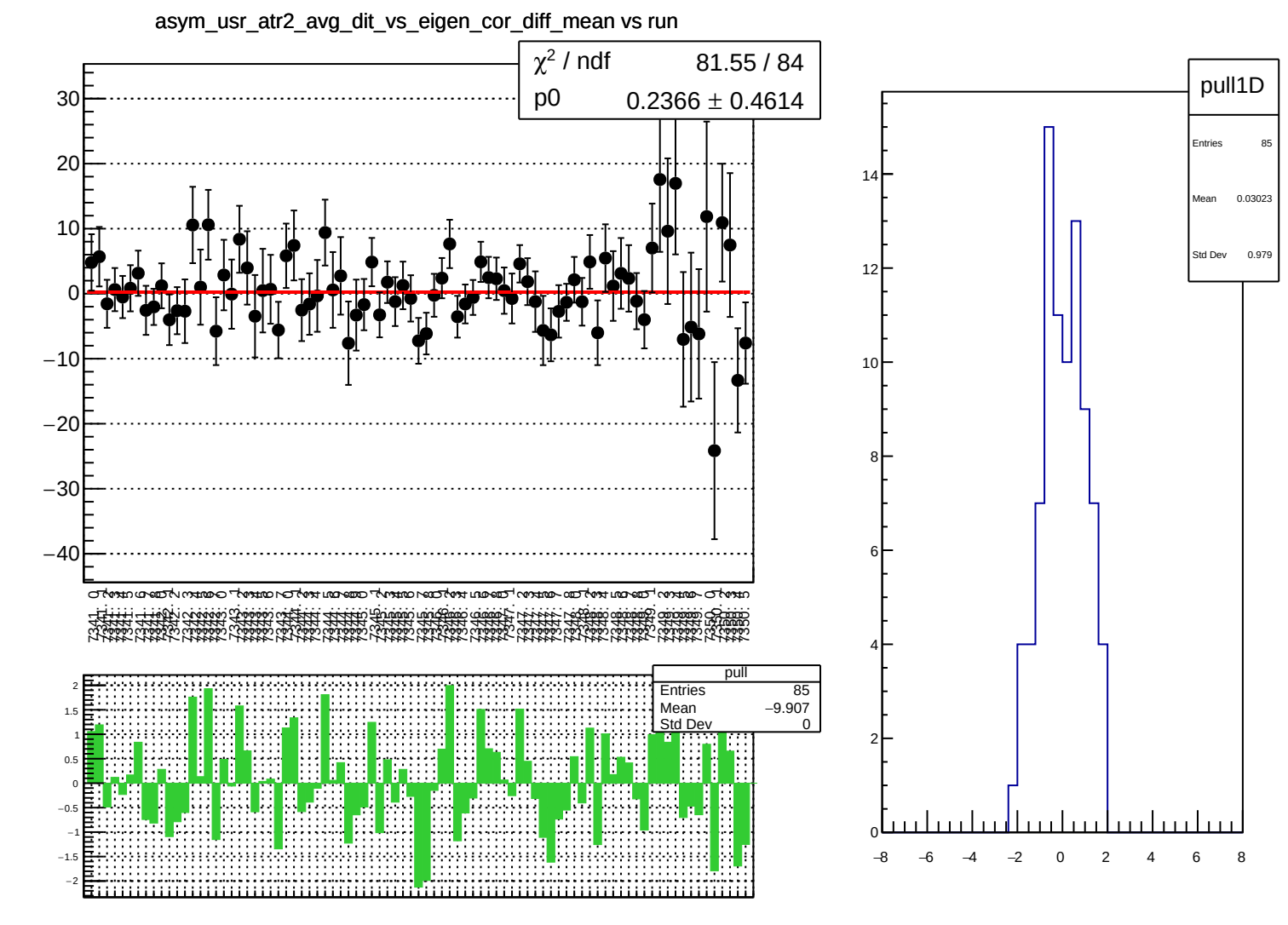

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.21 / 84
p0 −9.204e−14 ± 2.471e−13
pull
Entries 85
Mean −4.495
Std Dev 0
pull1D
Entries 85
Mean 0.08961
Std Dev 1.021

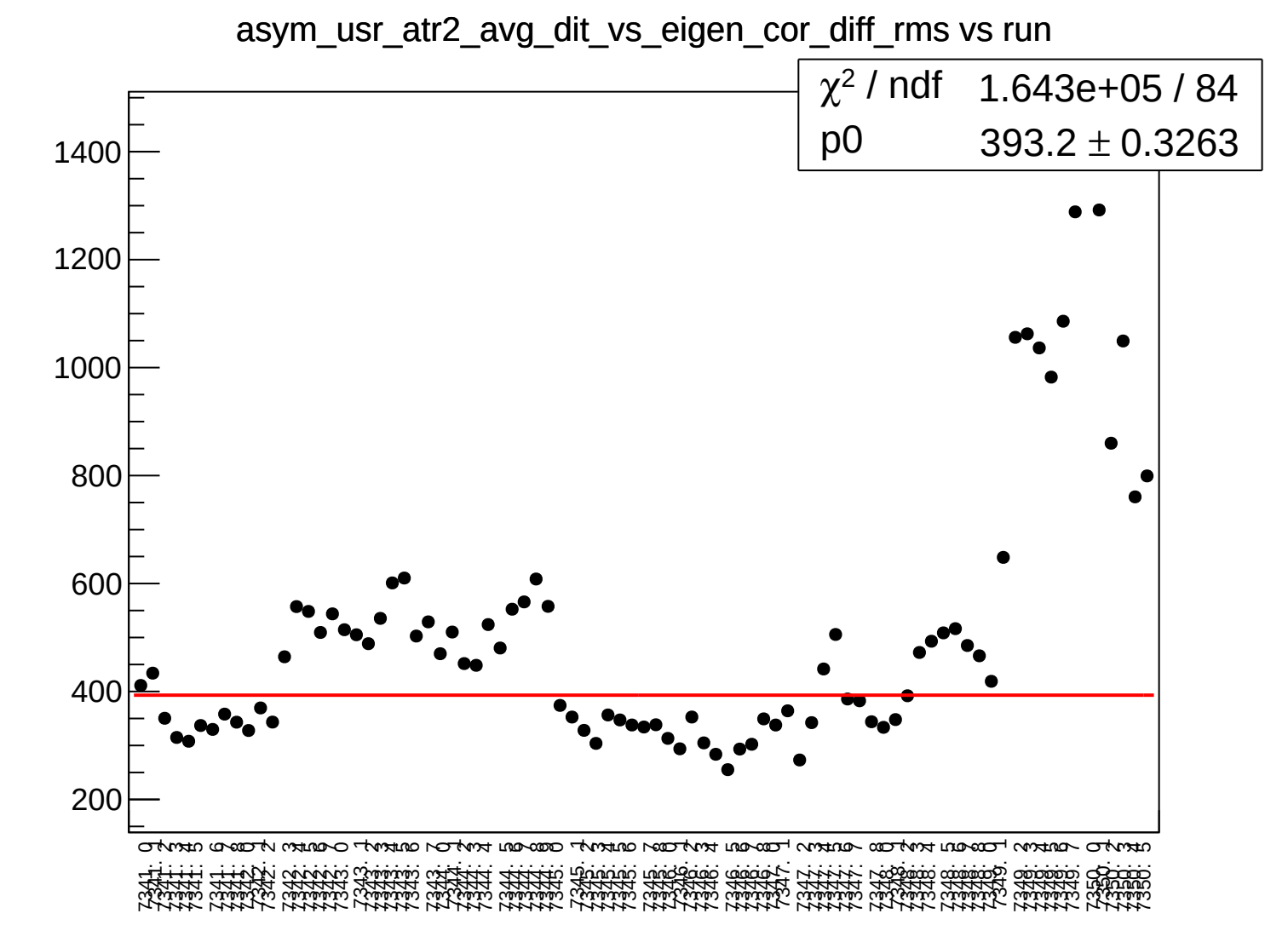

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.338e+06 / 84
p0 9.219e−11 ± 1.747e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

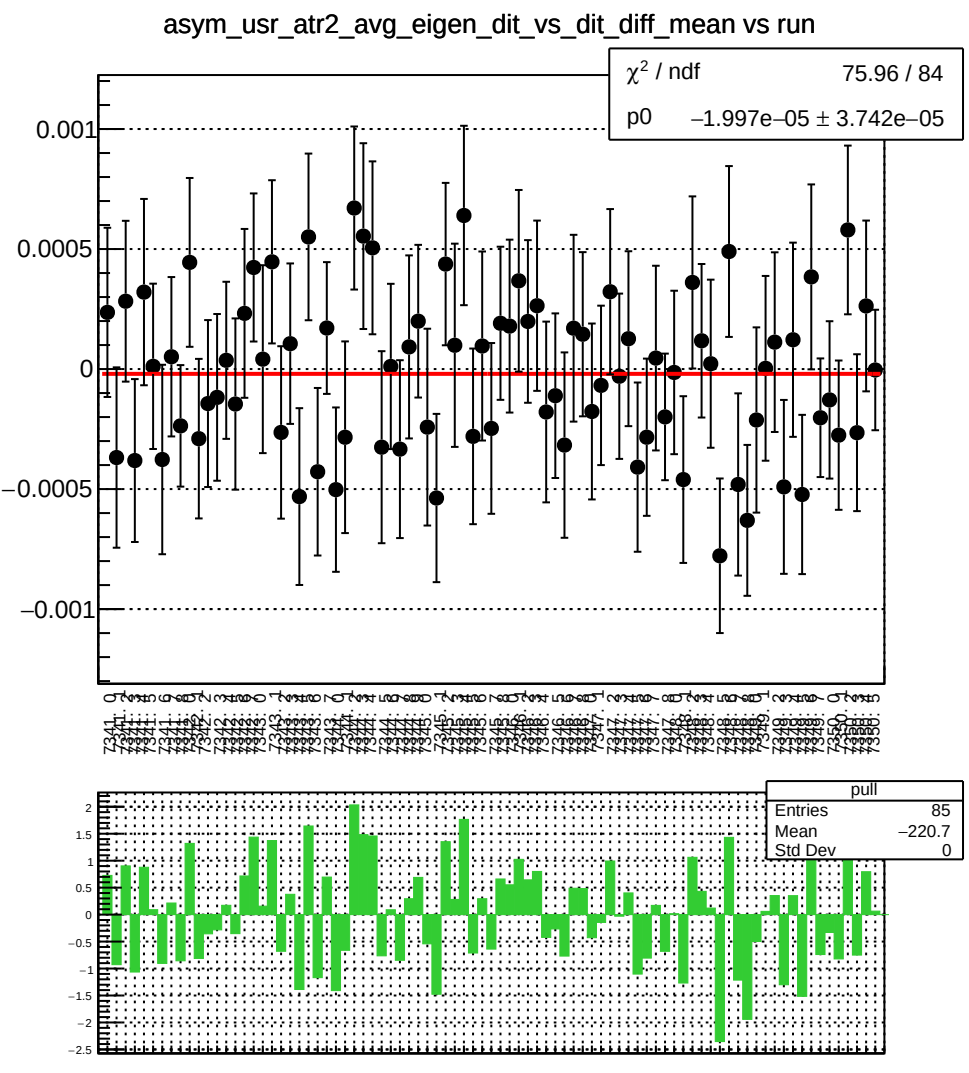

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.55 / 84
p0 0.2366 ± 0.4614
pull
Entries 85
Mean −9.907
Std Dev 0

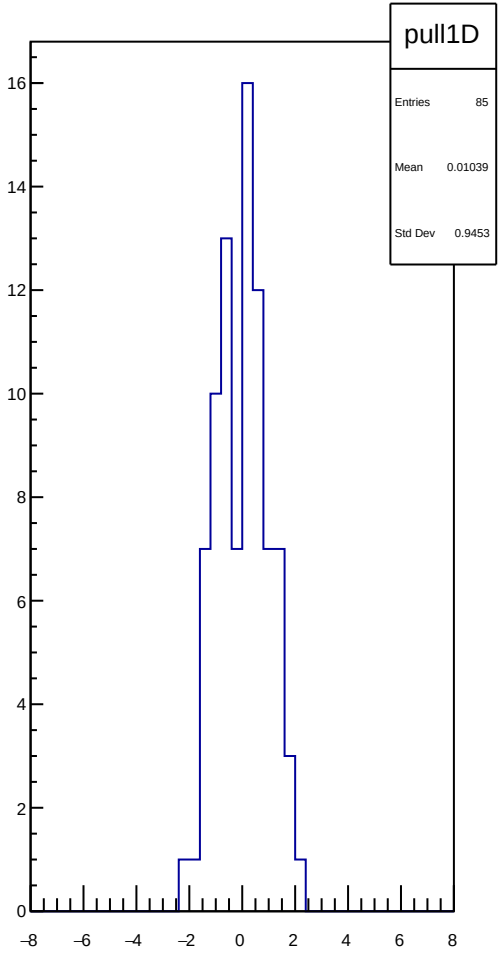

pull1D
Entries 85
Mean 0.03023
Std Dev 0.979

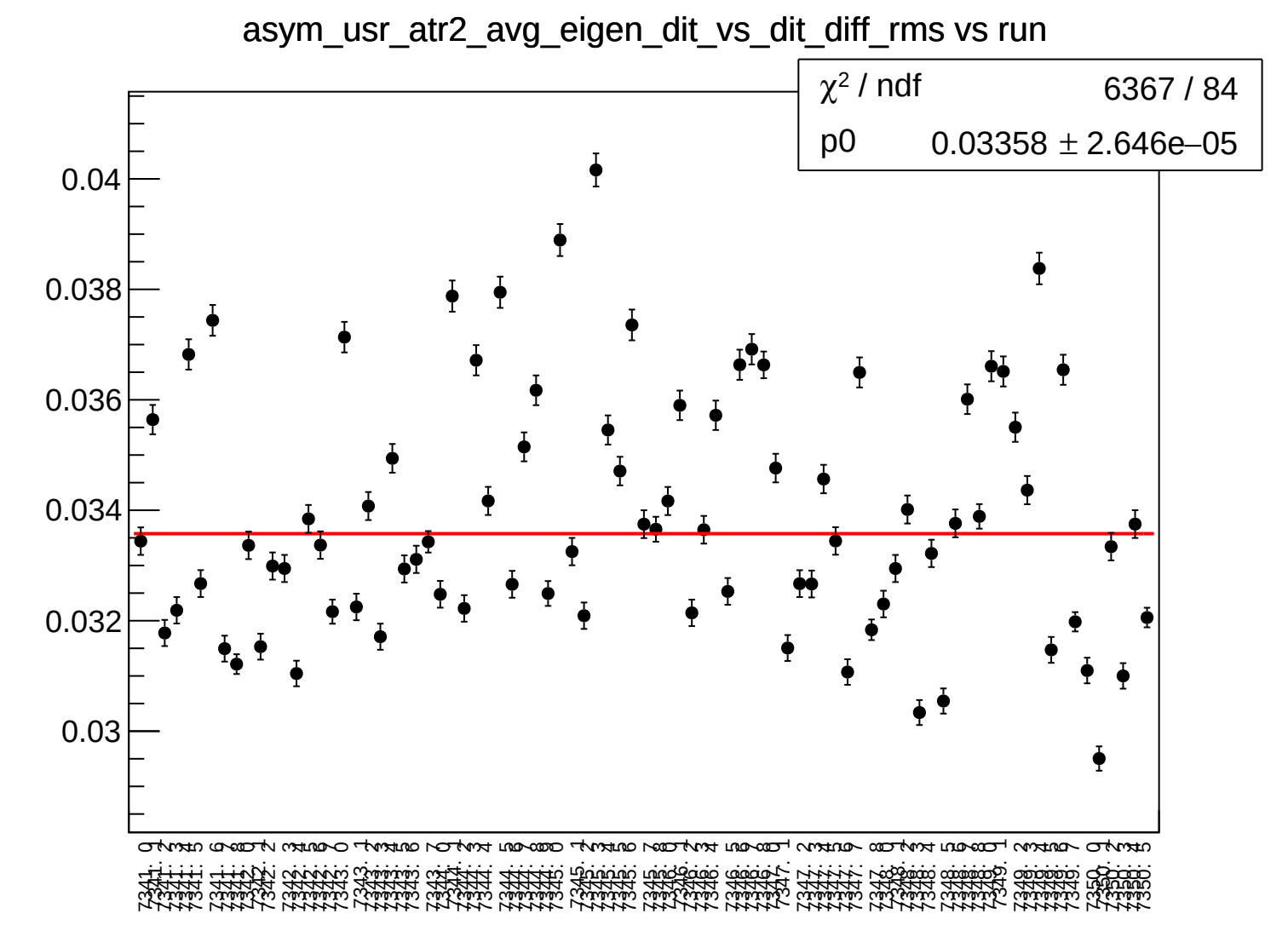

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.643e+05 / 84
p0 393.2 ± 0.3263
1400
1200
1000
800
600
400
200

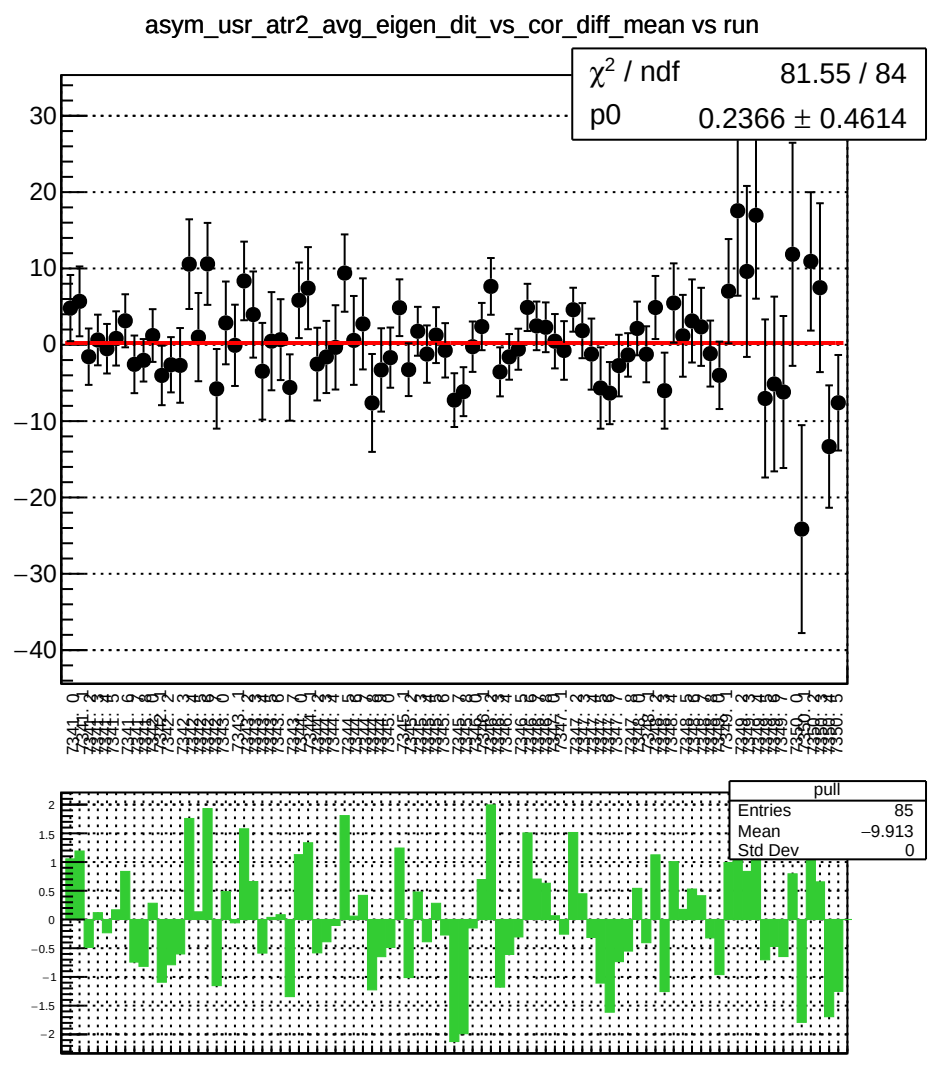

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.55 / 84
p0 0.2366 ± 0.4614
pull
Entries 85
Mean −9.907
Std Dev 0
pull1D
Entries 85
Mean 0.03023
Std Dev 0.979

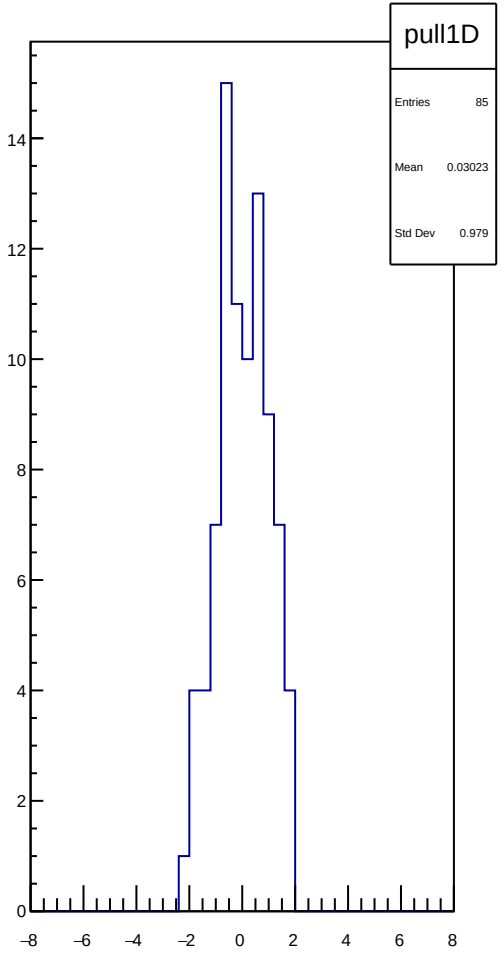

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.643e+05 / 84
p0 393.2 ± 0.3263
1400
1200
1000
800
600
400
200

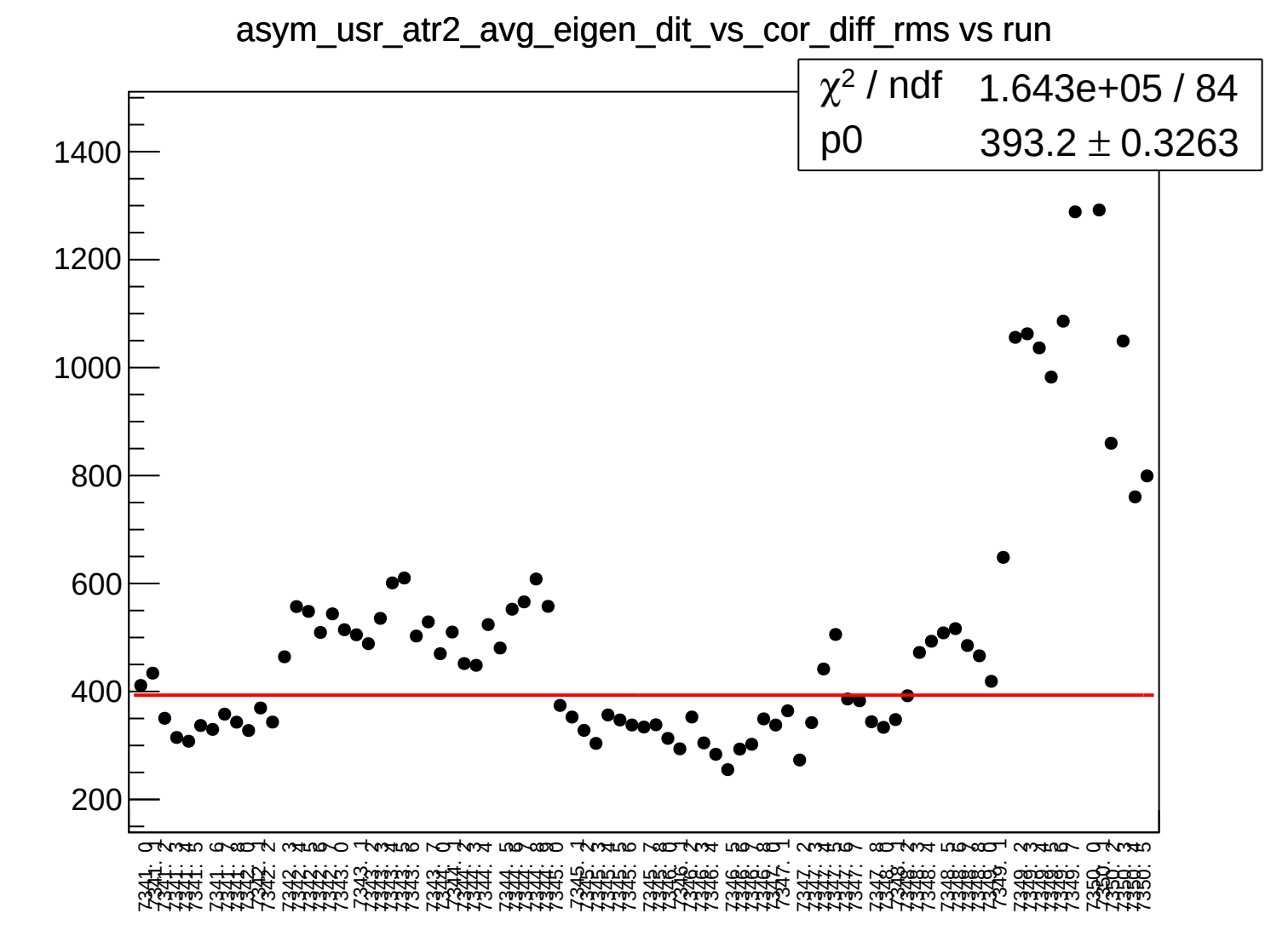

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.96 / 84
p0 −1.997e−05 ± 3.742e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean −220.7
Std Dev 0

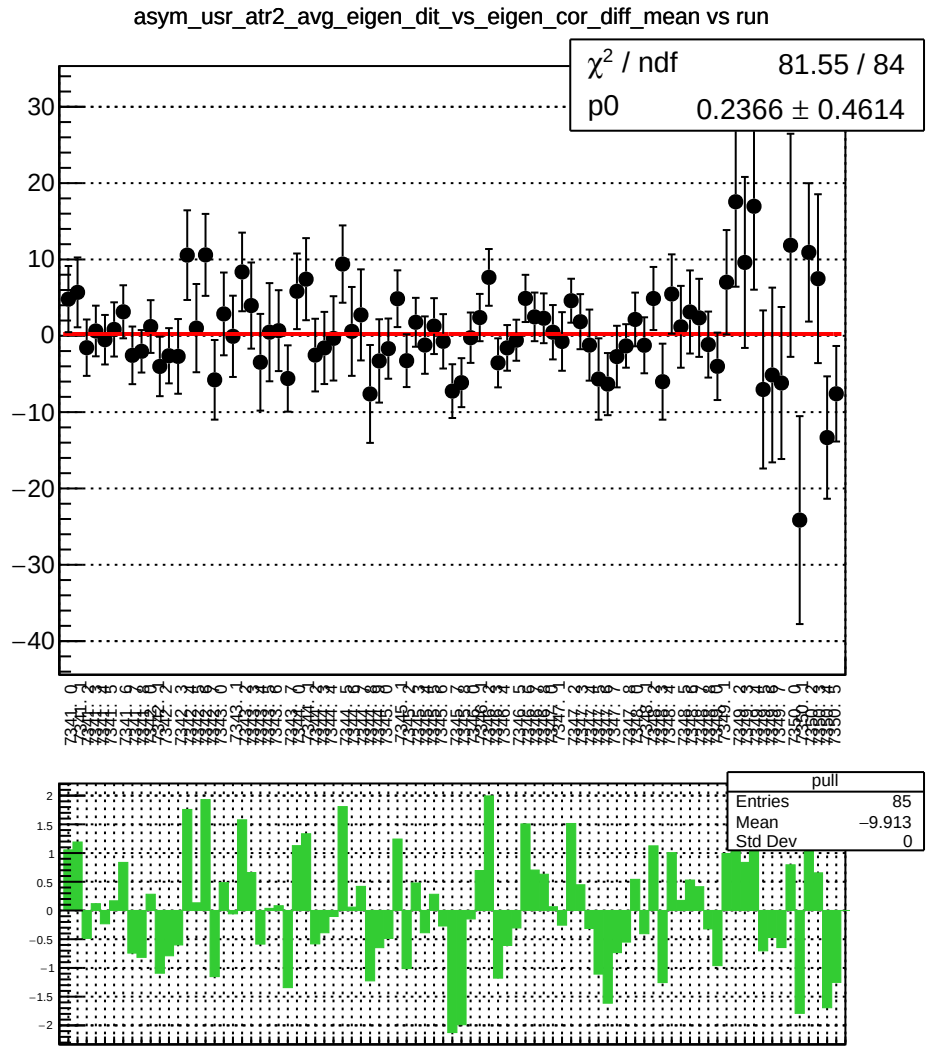

pull1D
Entries 85
Mean 0.01039
Std Dev 0.9453

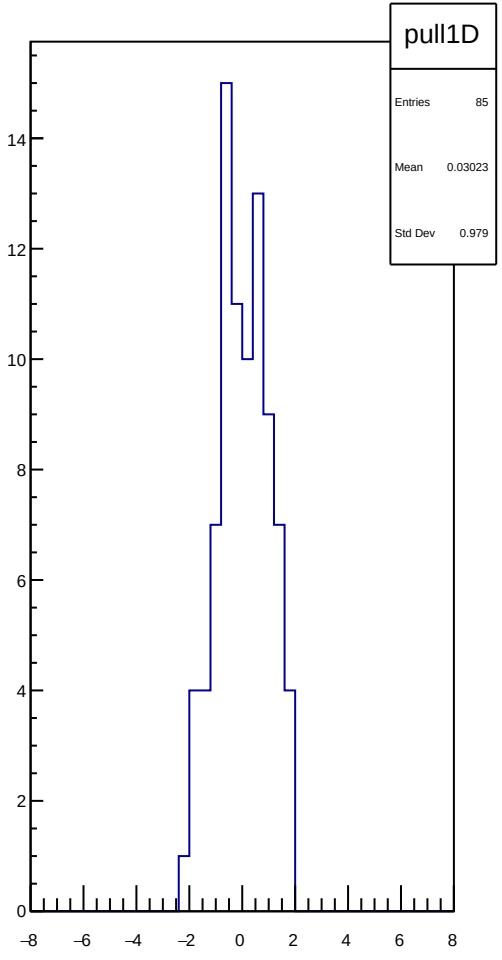

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6367 / 84
p0 0.03358 ± 2.646e−05
0.04
0.038
0.036
0.034
0.032
0.03

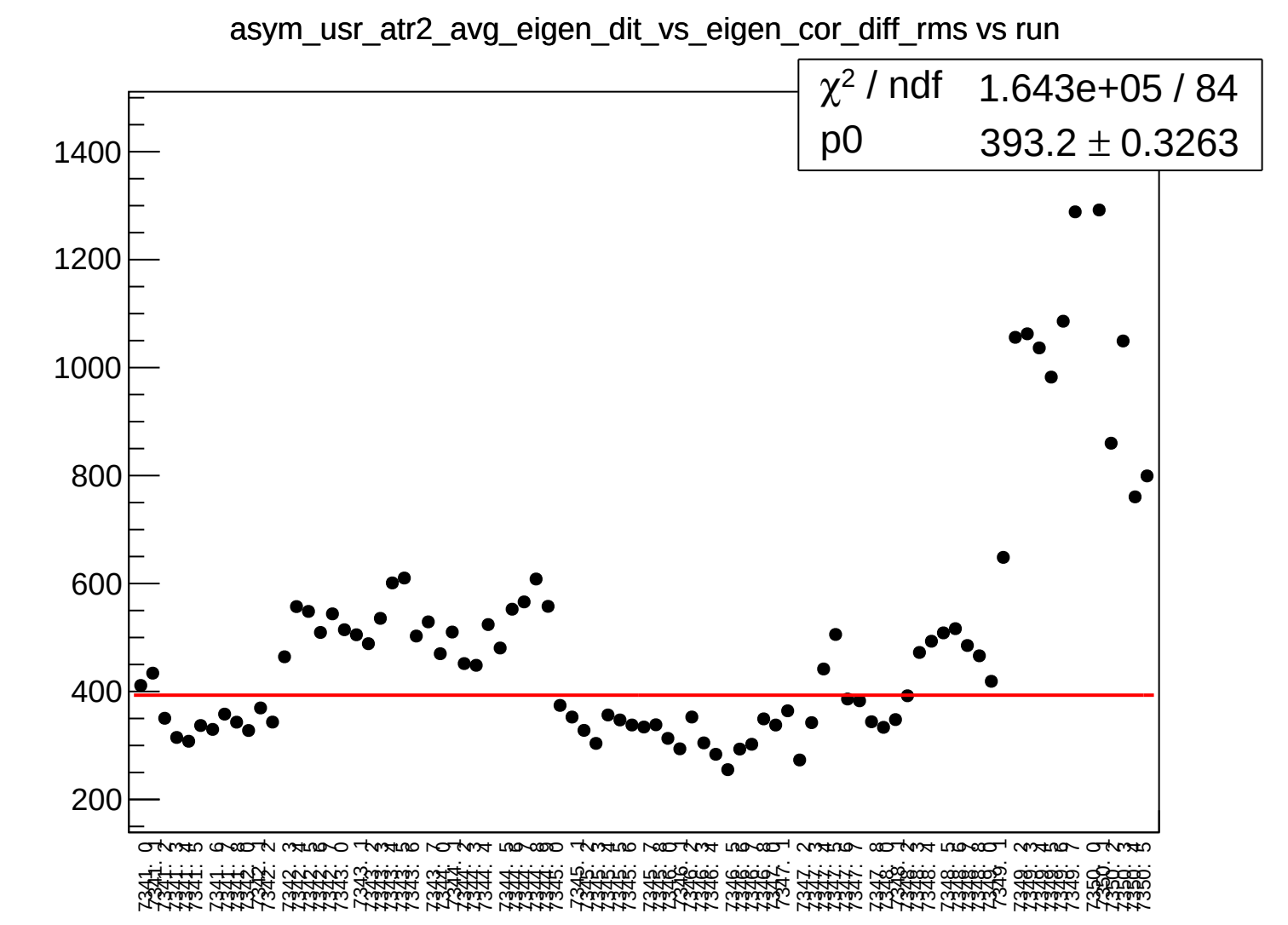

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.55 / 84
p0 0.2366 ± 0.4614
pull
Entries 85
Mean −9.913
Std Dev 0

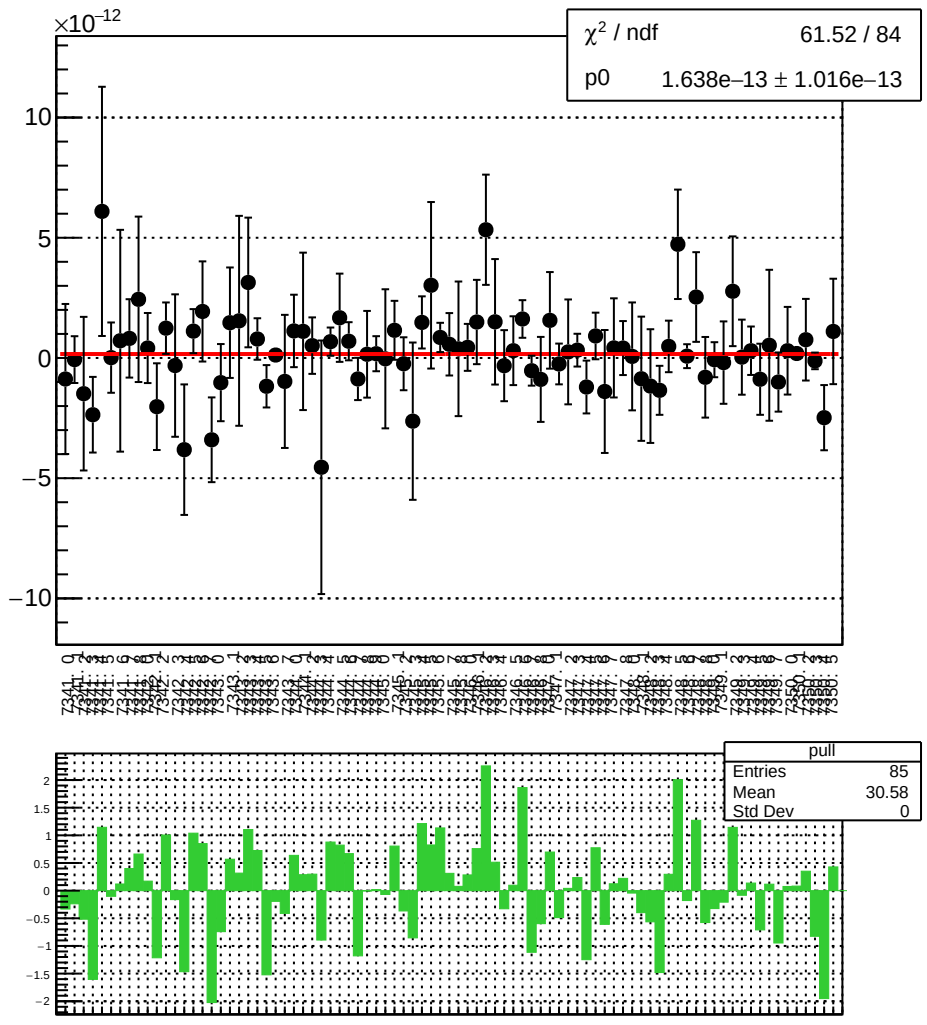

pull1D
Entries 85
Mean 0.03023
Std Dev 0.979

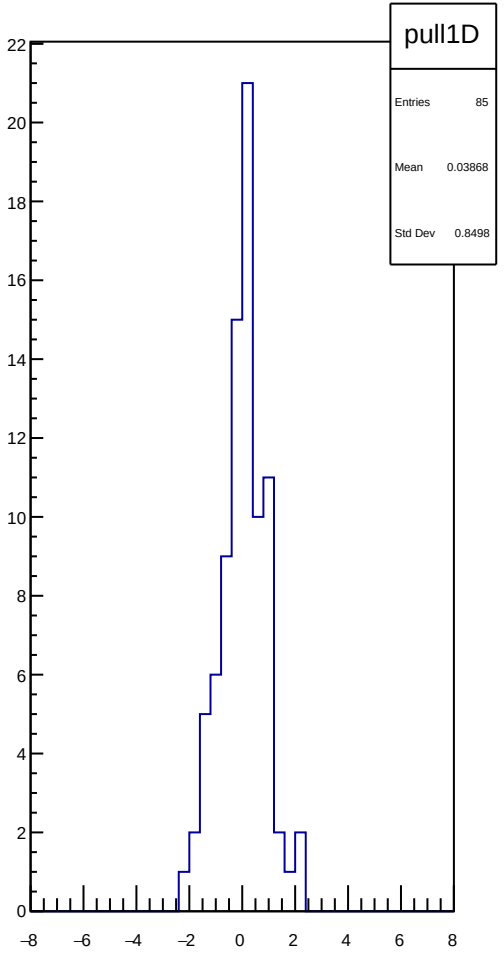

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.643e+05 / 84
p0 393.2 ± 0.3263
1400
1200
1000
800
600
400
200

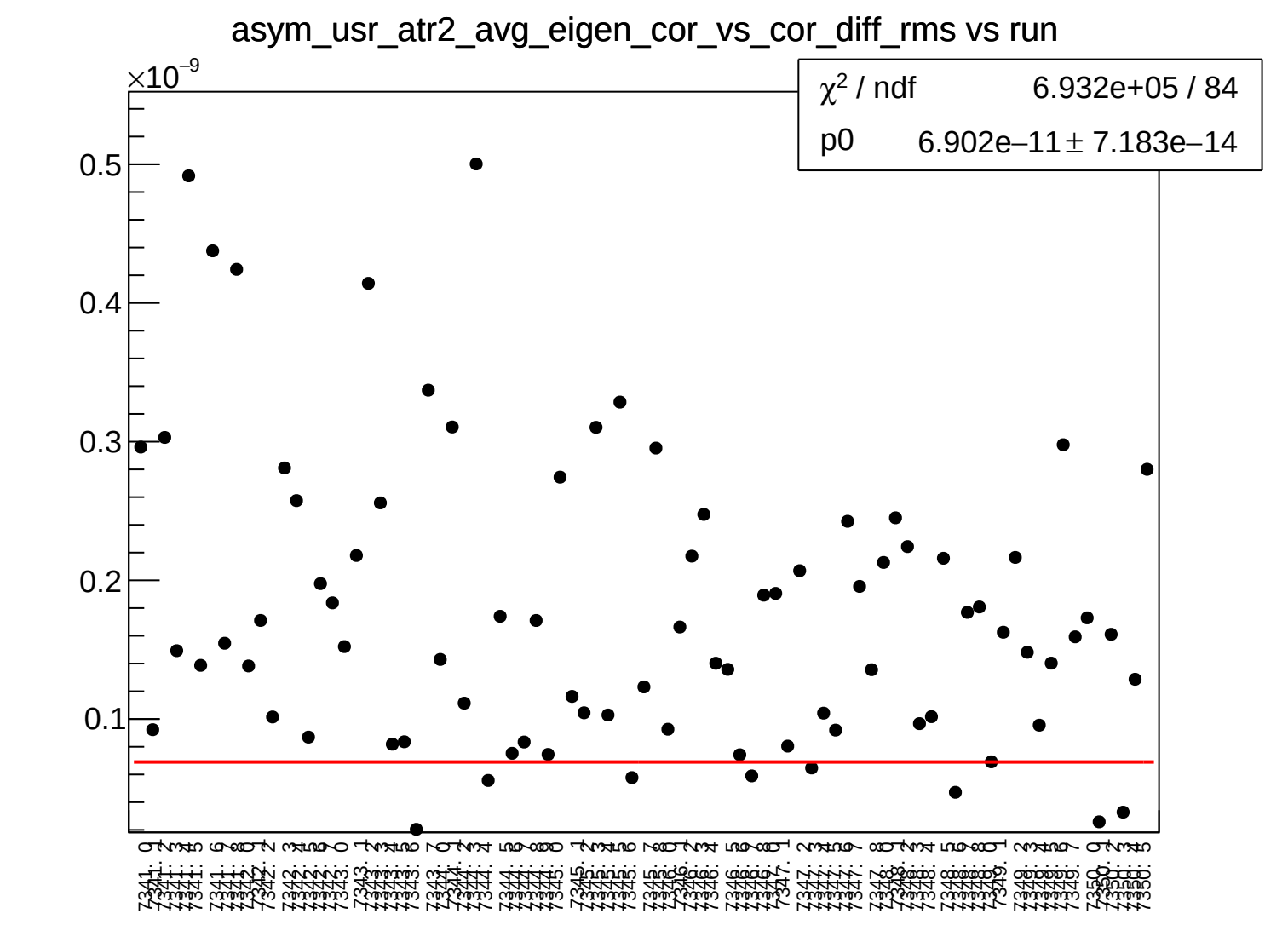

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.55 / 84
p0 0.2366 ± 0.4614
pull
Entries 85
Mean −9.913
Std Dev 0

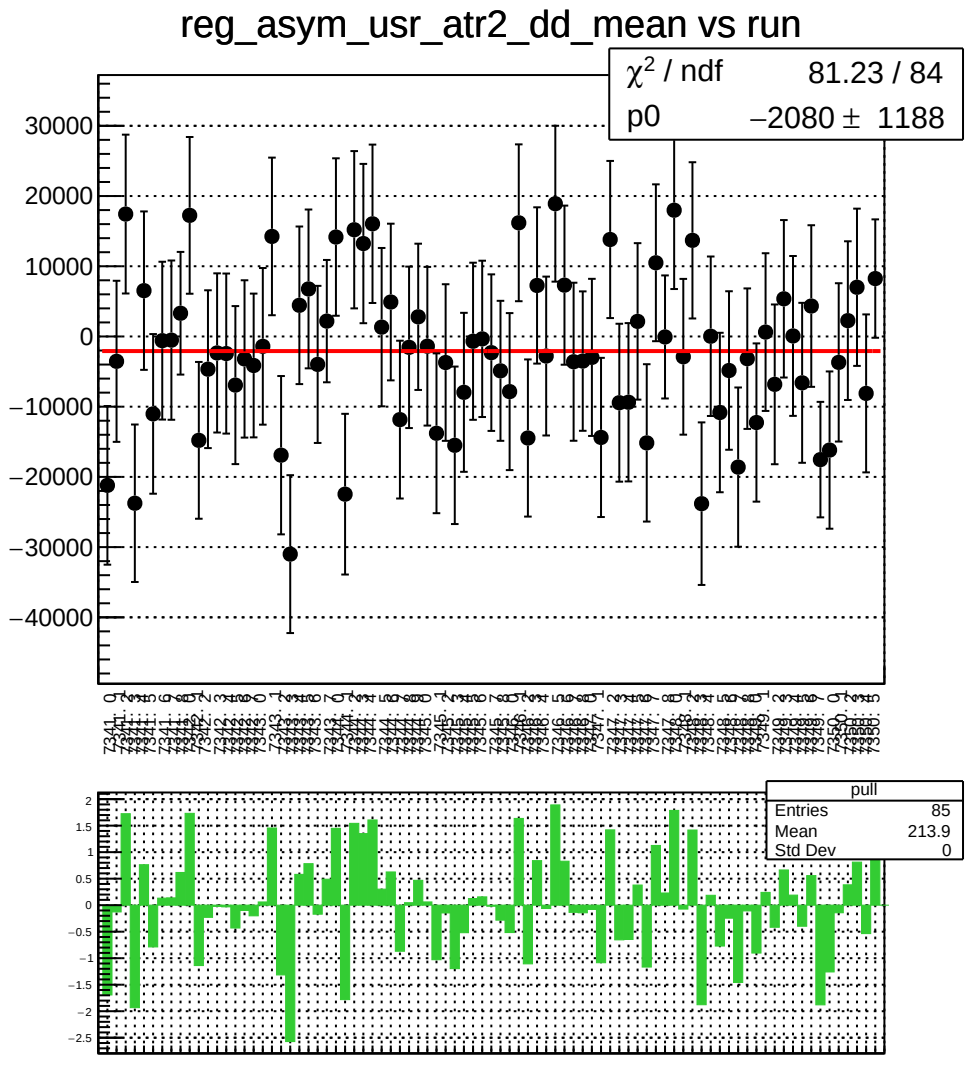

pull1D
Entries 85
Mean 0.03023
Std Dev 0.979

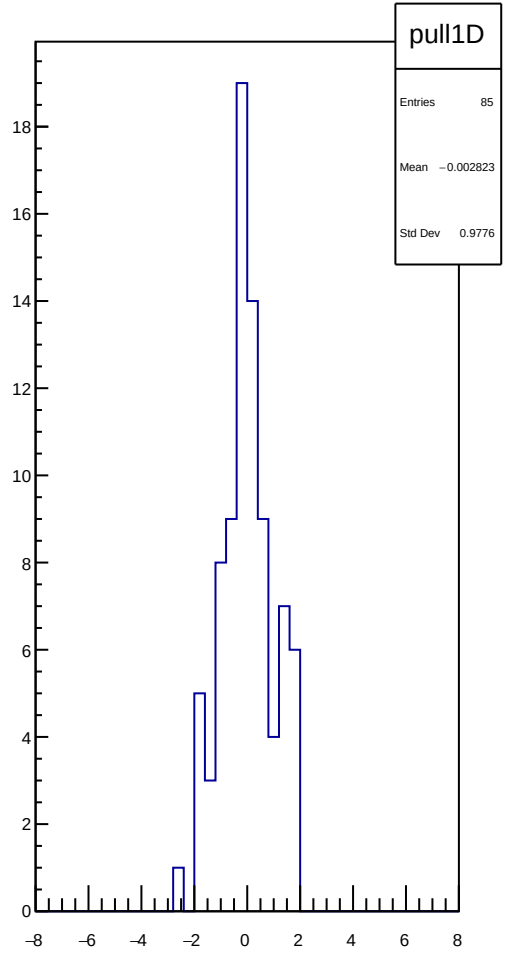

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.643e+05 / 84
p0 393.2 ± 0.3263
1400
1200
1000
800
600
400
200

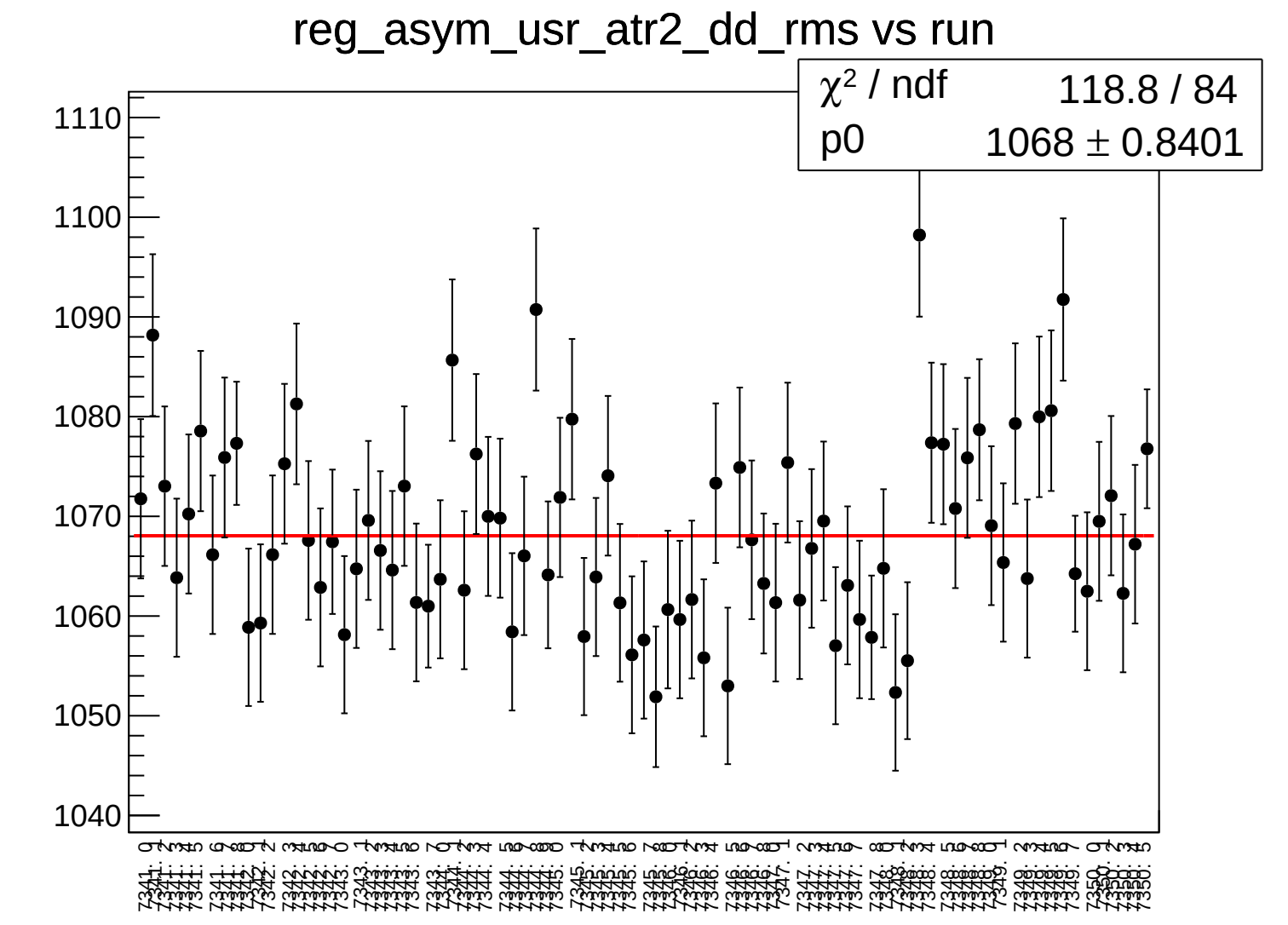

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.52 / 84
p0 1.638e−13 ± 1.016e−13
10
5
0
−5
−10
pull
Entries 85
Mean 30.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

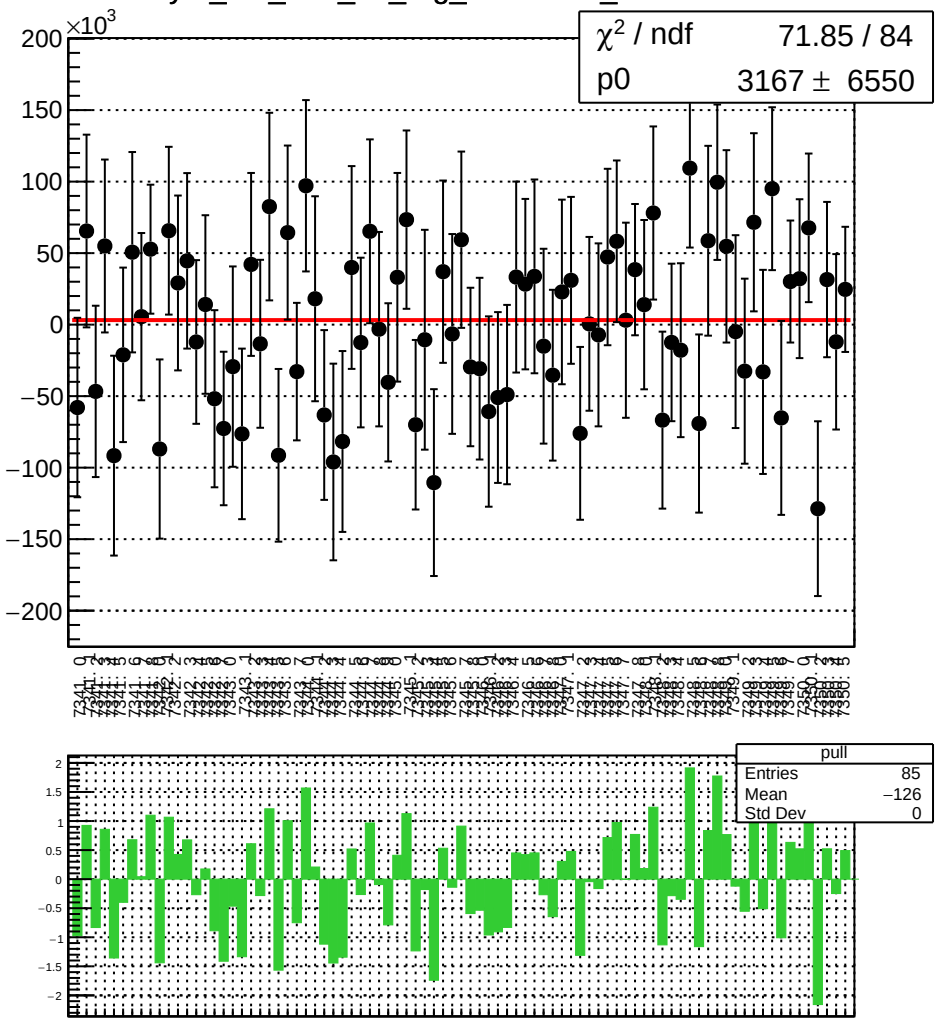

pull1D
Entries 85
Mean 0.03868
Std Dev 0.8498
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

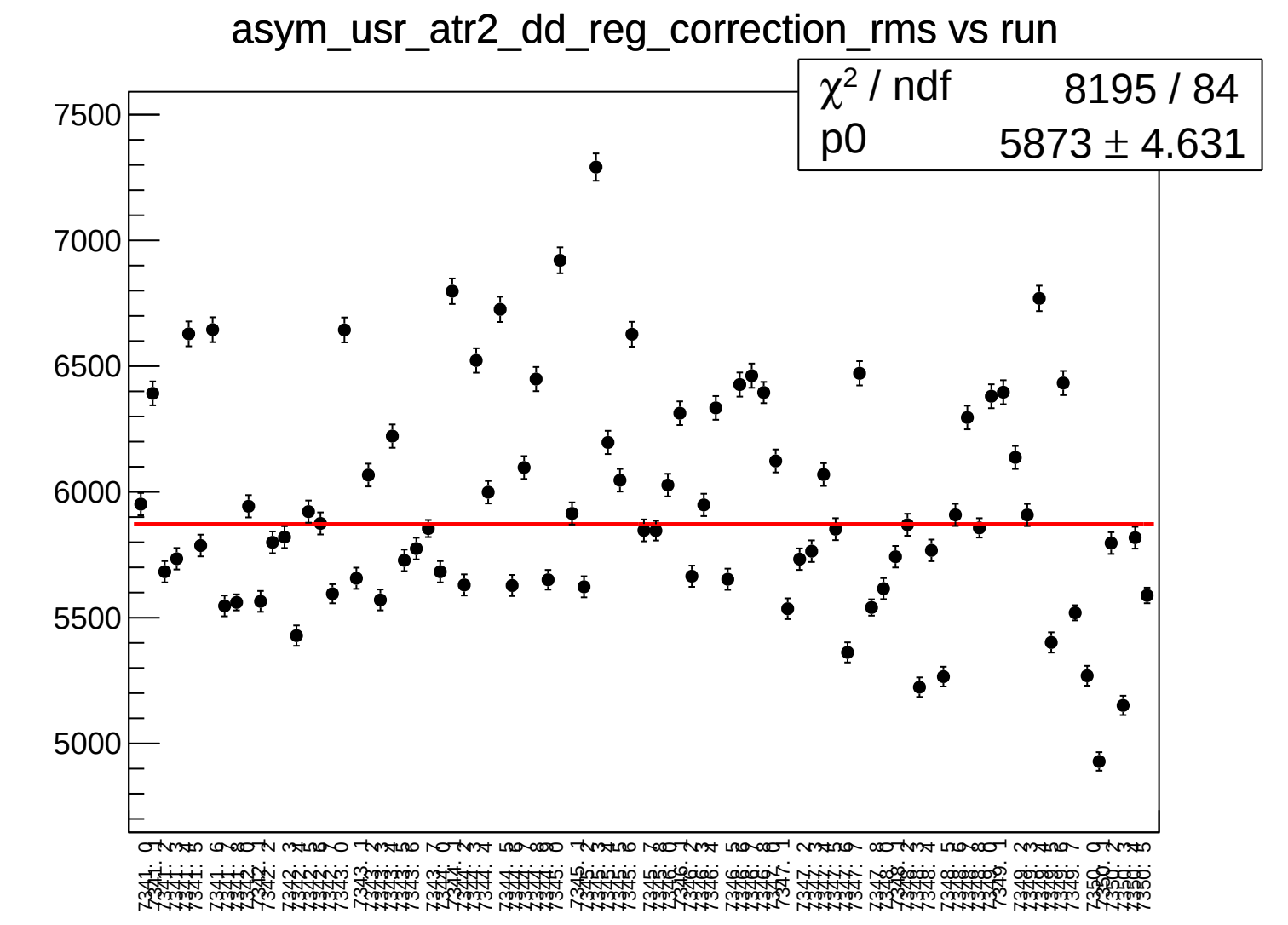

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.932e+05 / 84
p0 6.902e−11 ± 7.183e−14
0.5
0.4
0.3
0.2
0.1

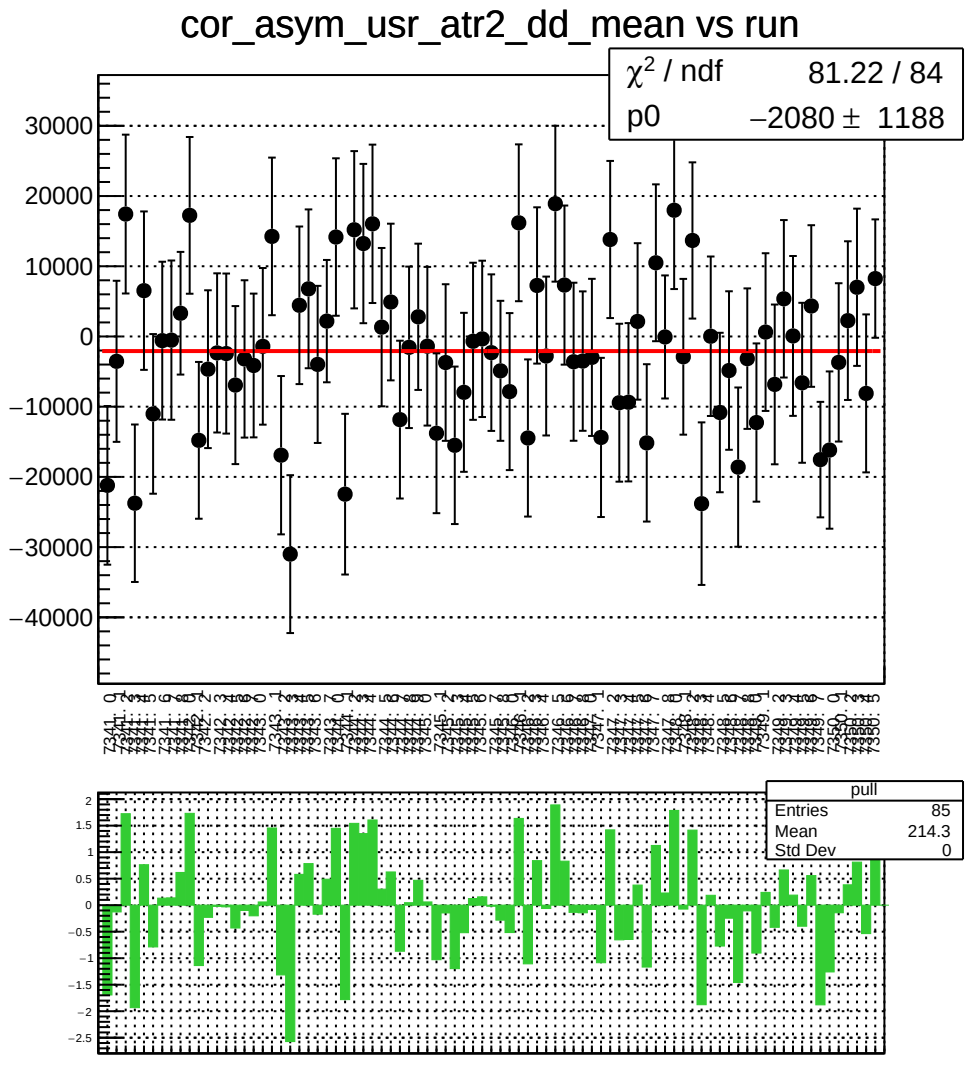

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 81.23 / 84
p0 −2080 ± 1188
pull
Entries 85
Mean 213.9
Std Dev 0

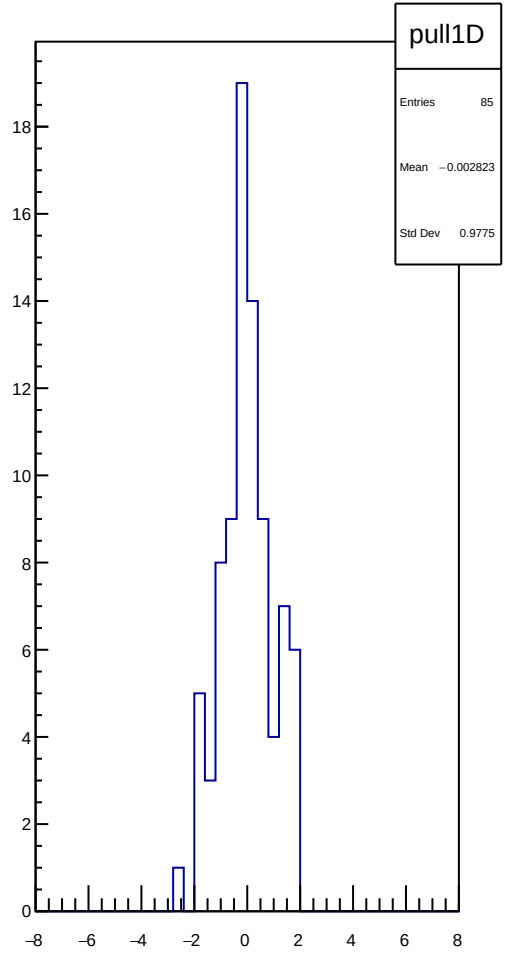

pull1D
Entries 85
Mean −0.002823
Std Dev 0.9776

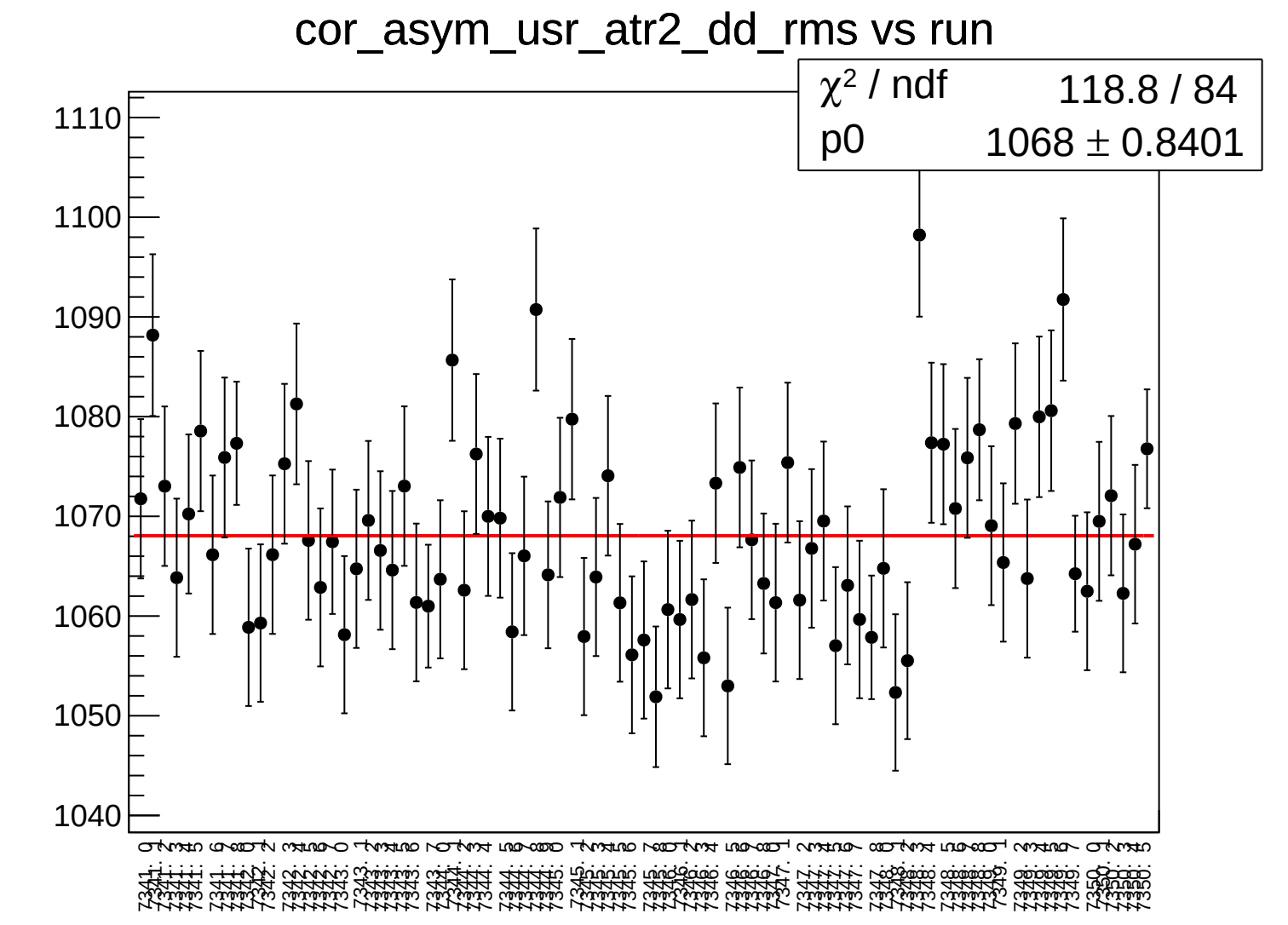

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 118.8 / 84
p0 1068 ± 0.8401
1110
1100
1090
1080
1070
1060
1050
1040

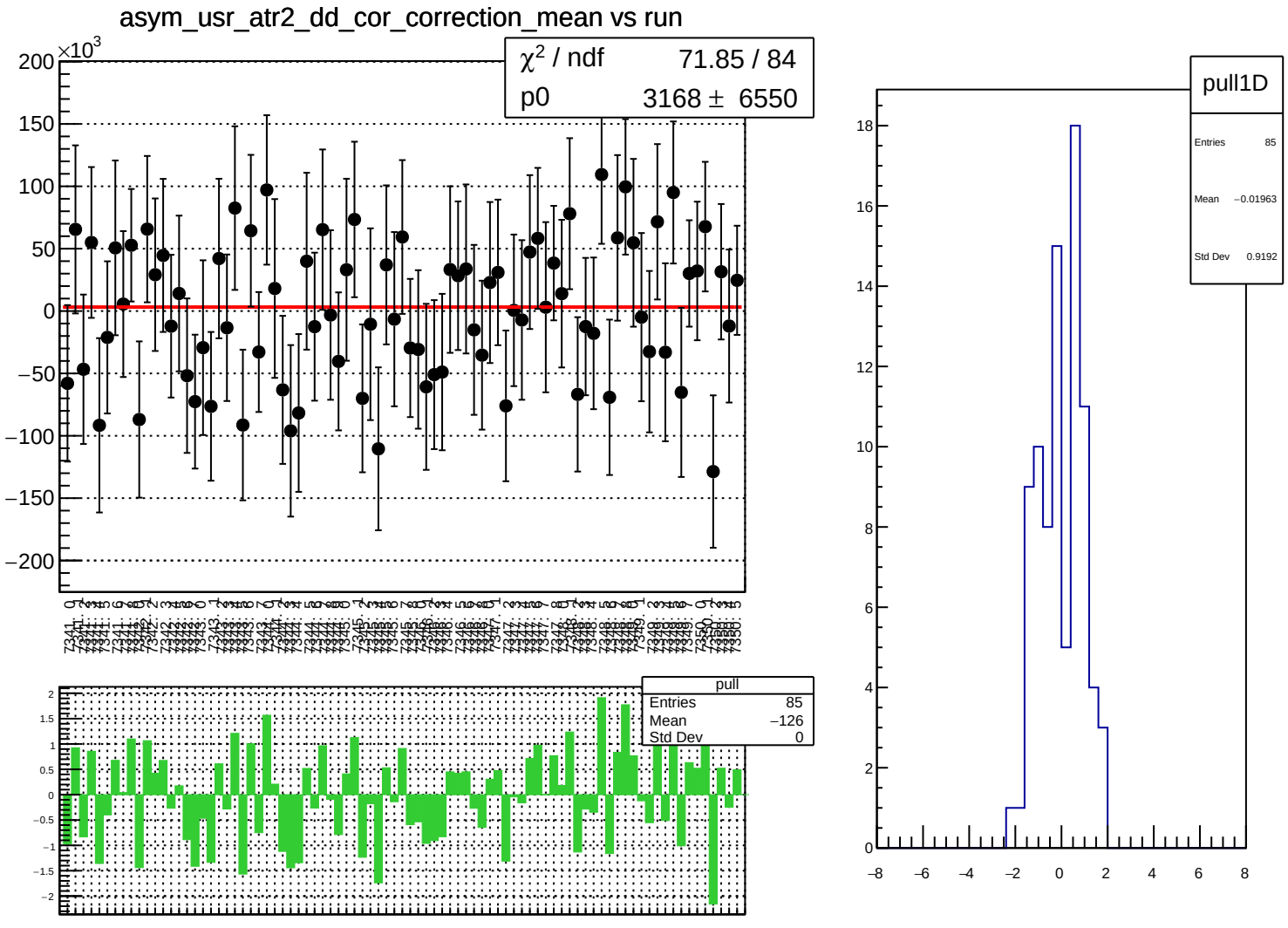

asym_usr_atr2_dd_reg_correction_mean vs run
χ² / ndf 71.85 / 84
p0 3167 ± 6550
×10³
pull
Entries 85
Mean −126
Std Dev 0
pull1D
Entries 85
Mean −0.01963
Std Dev 0.9192

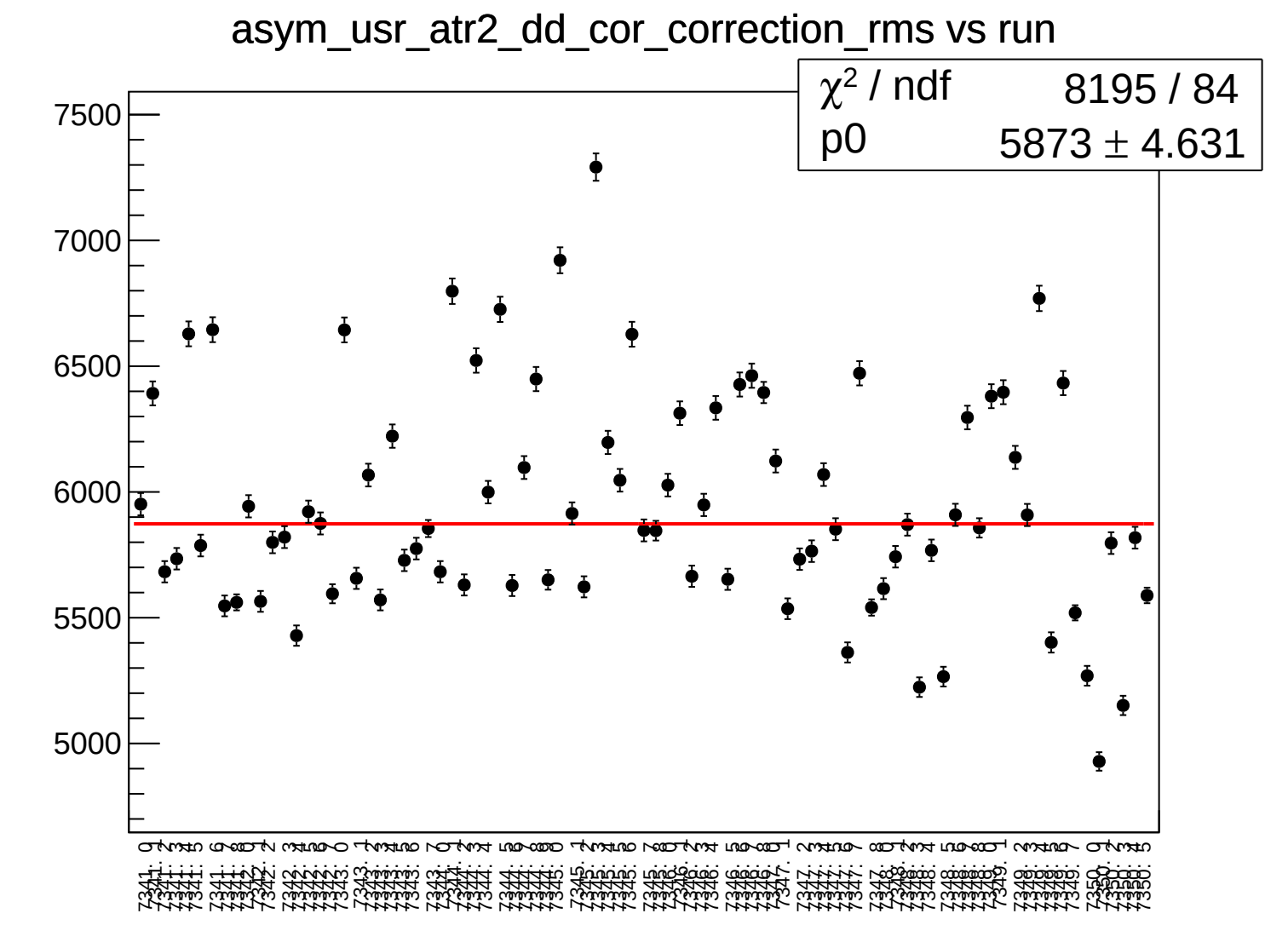

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 8195 / 84
p0 5873 ± 4.631
7500
7000
6500
6000
5500
5000

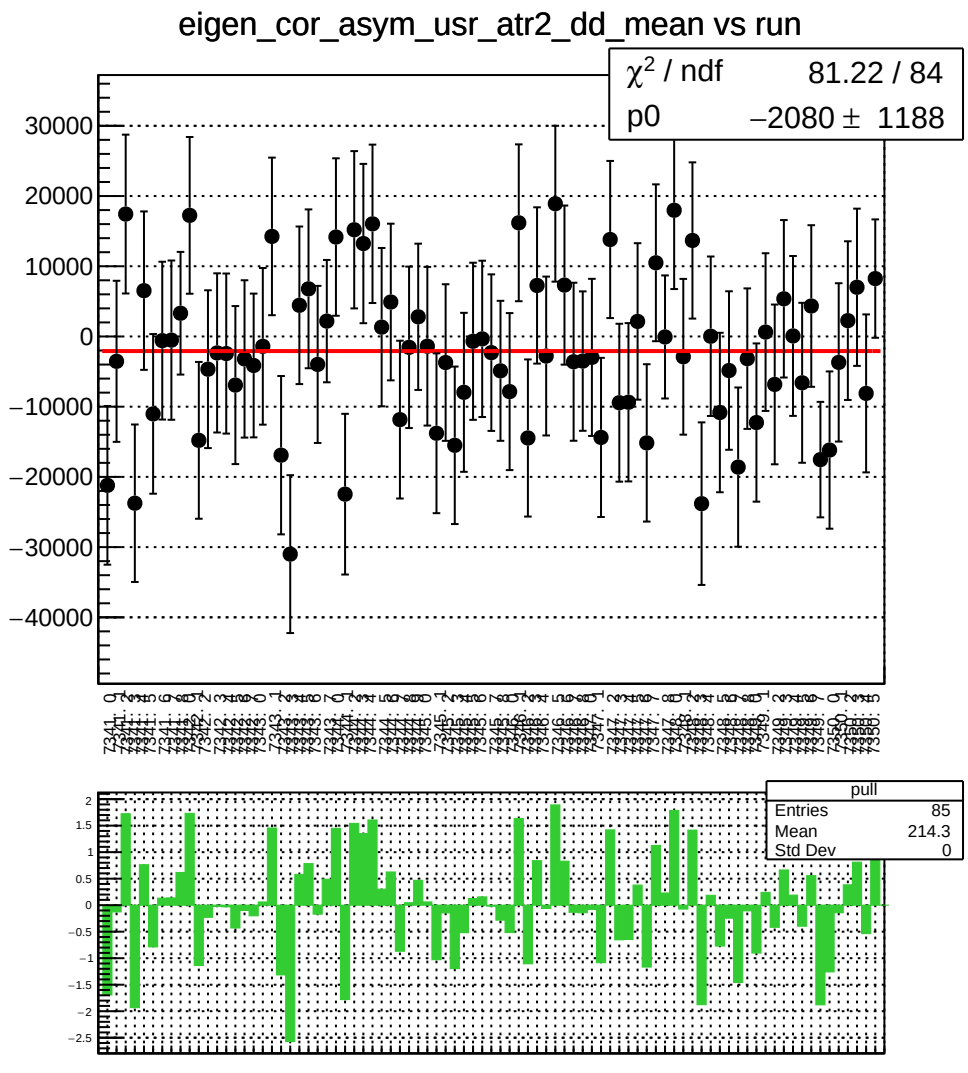

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 81.22 / 84
p0 −2080 ± 1188
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 85
Mean 214.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

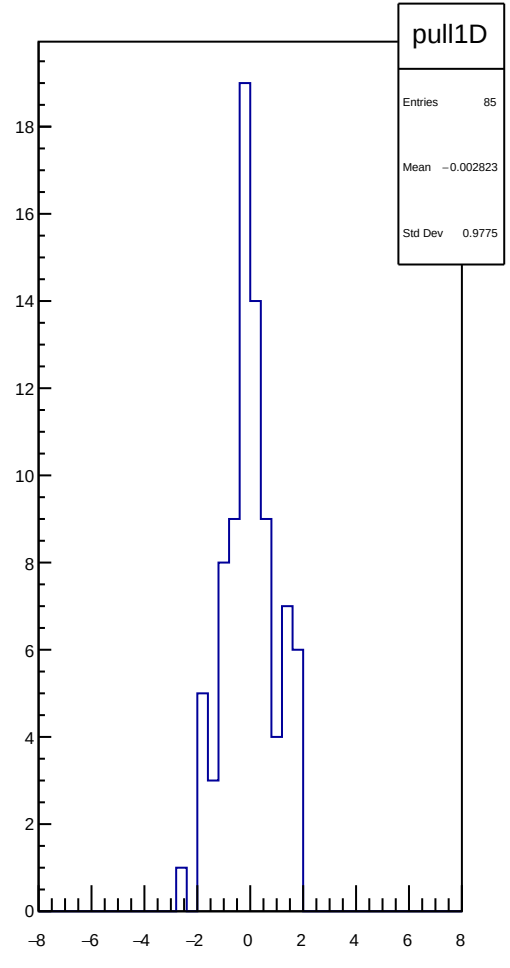

pull1D
Entries 85
Mean −0.002823
Std Dev 0.9775
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

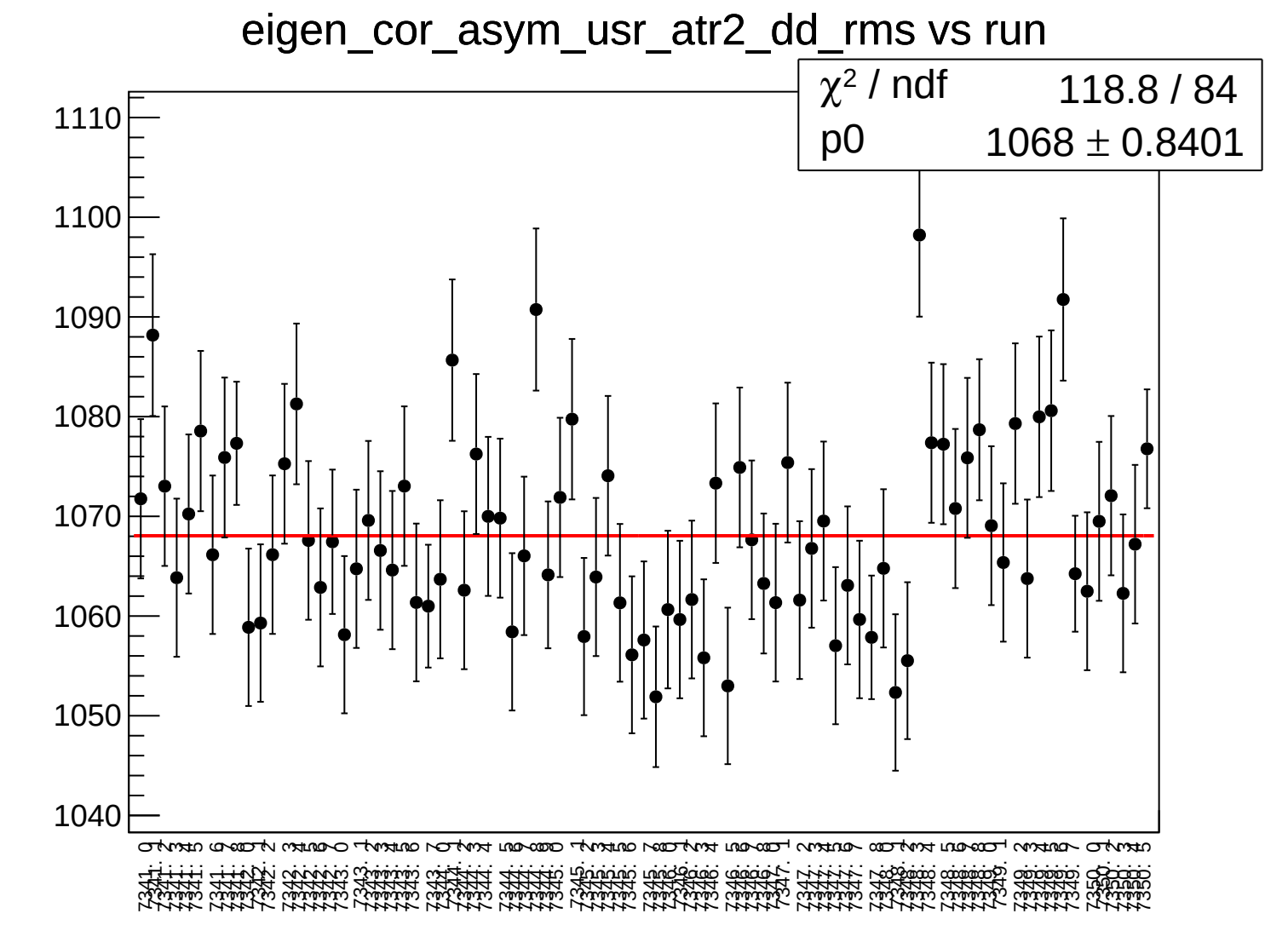

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 118.8 / 84
p0 1068 ± 0.8401
1110
1100
1090
1080
1070
1060
1050
1040

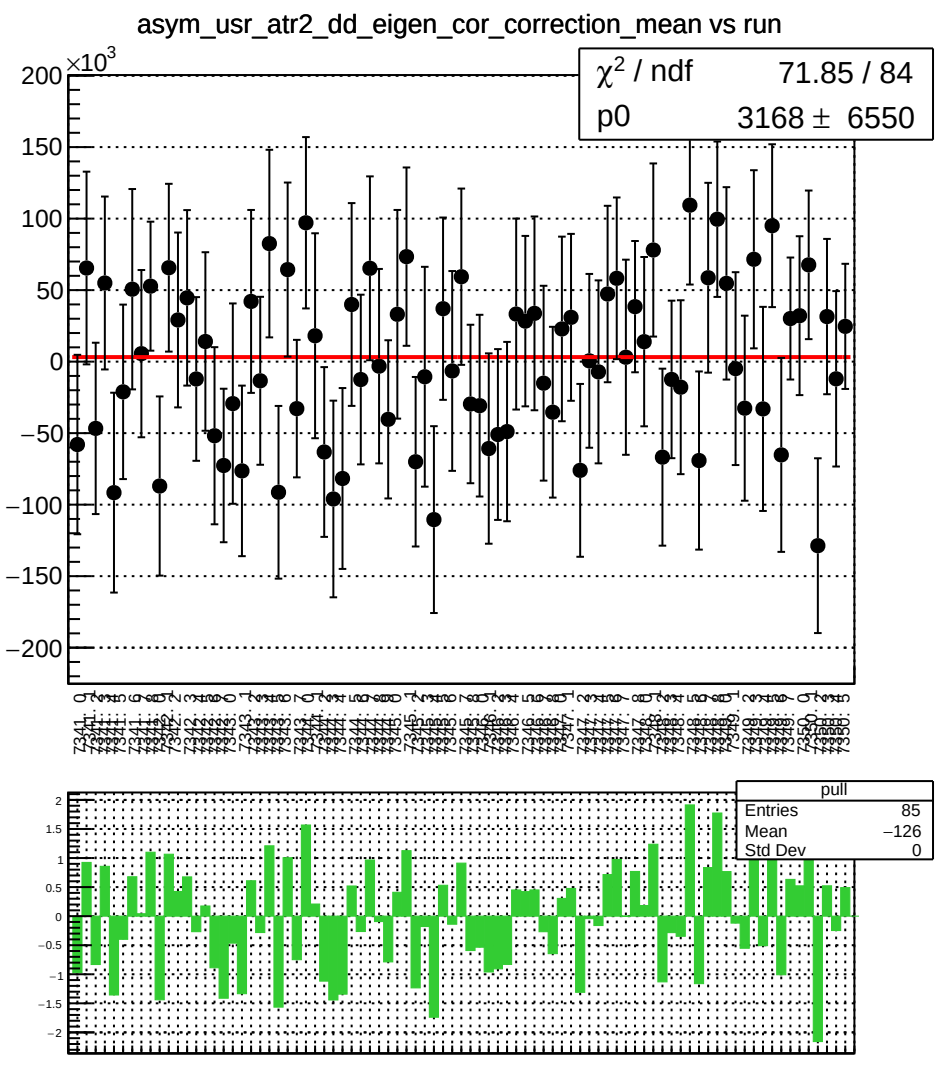

asym_usr_atr2_dd_cor_correction_mean vs run
χ² / ndf 71.85 / 84
p0 3168 ± 6550
×10³
pull
Entries 85
Mean −126
Std Dev 0
pull1D
Entries 85
Mean −0.01963
Std Dev 0.9192

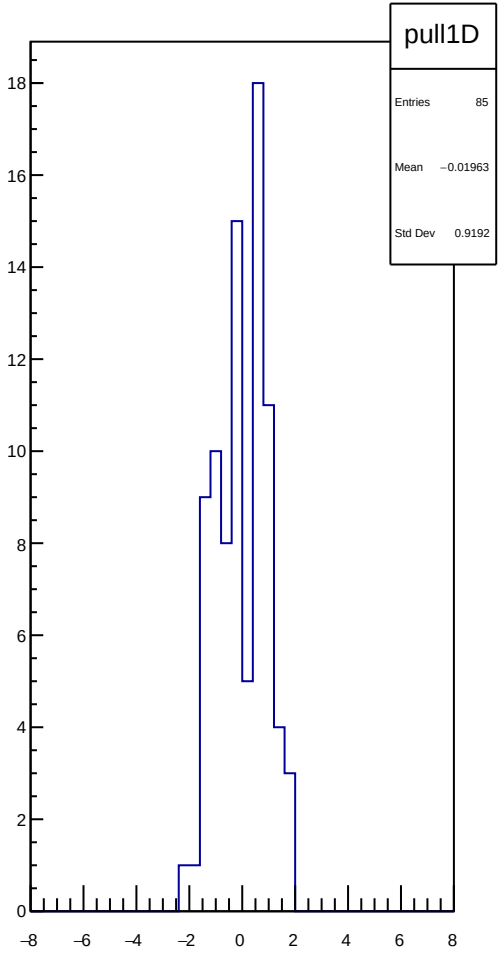

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 8195 / 84
p0 5873 ± 4.631
7500
7000
6500
6000
5500
5000

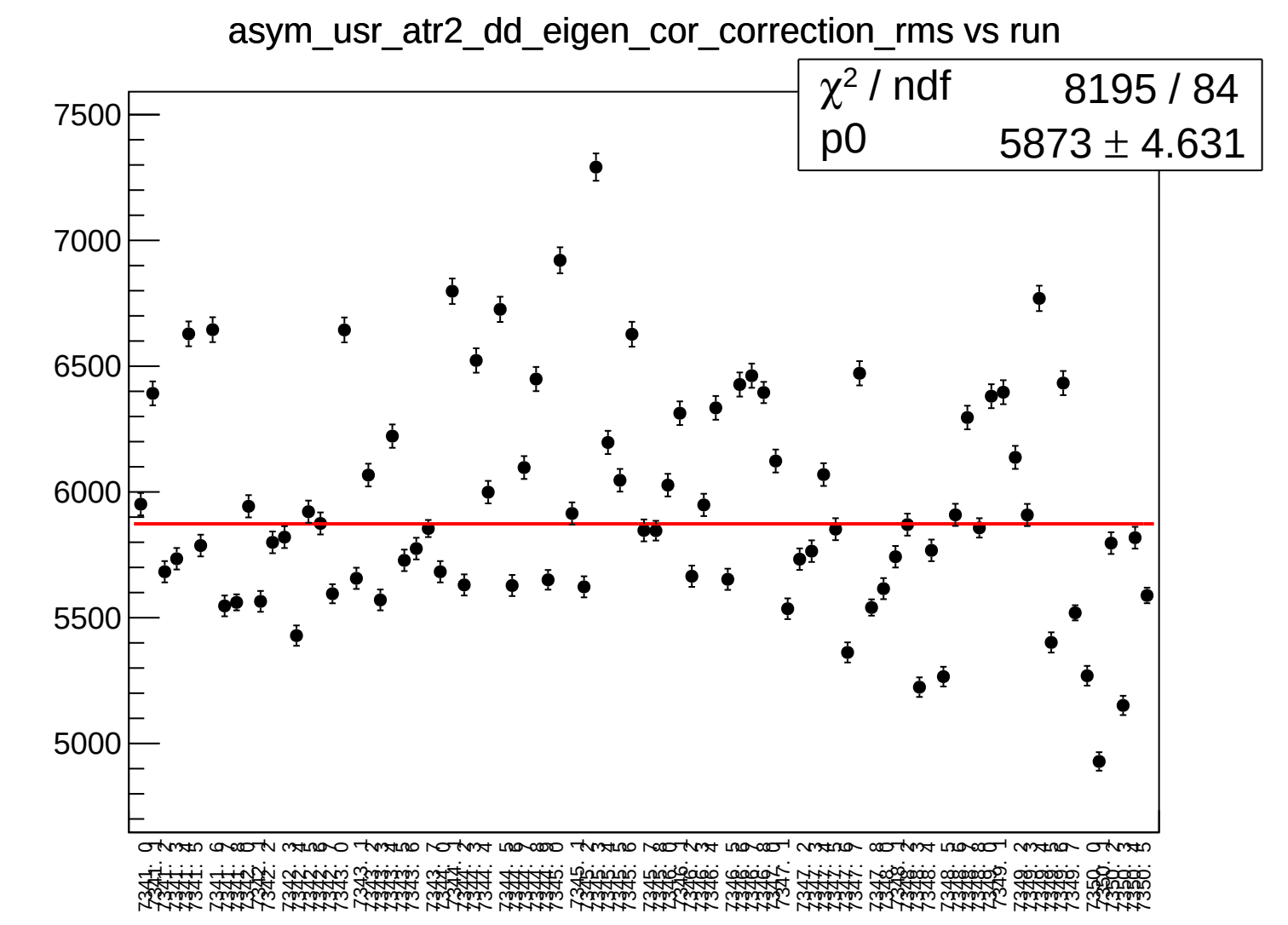

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 81.22 / 84
p0 −2080 ± 1188
pull
Entries 85
Mean 214.3
Std Dev 0

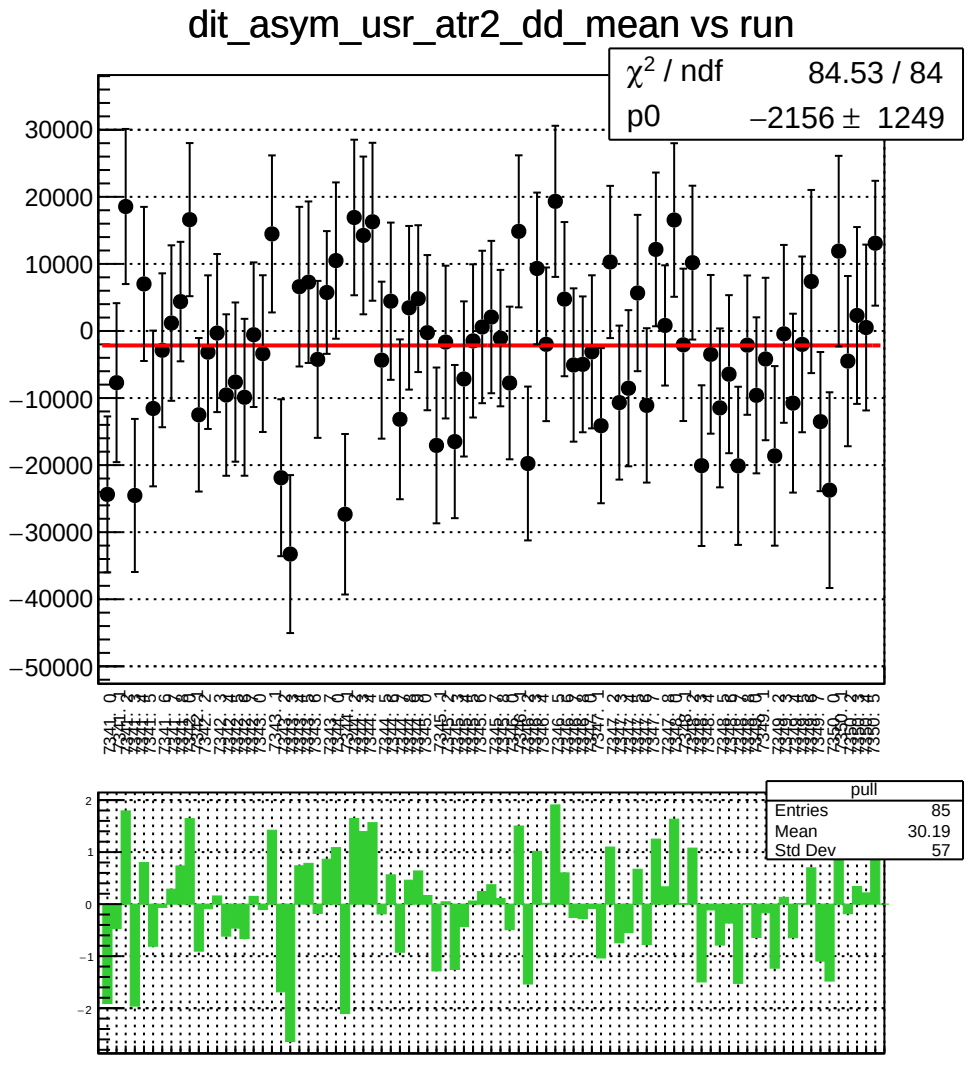

pull1D
Entries 85
Mean −0.002823
Std Dev 0.9775

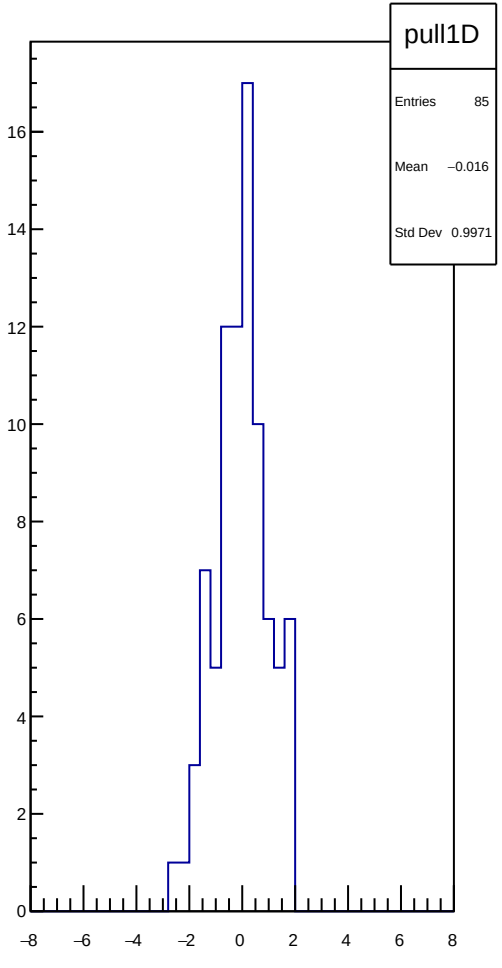

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 118.8 / 84
p0 1068 ± 0.8401
1110
1100
1090
1080
1070
1060
1050
1040

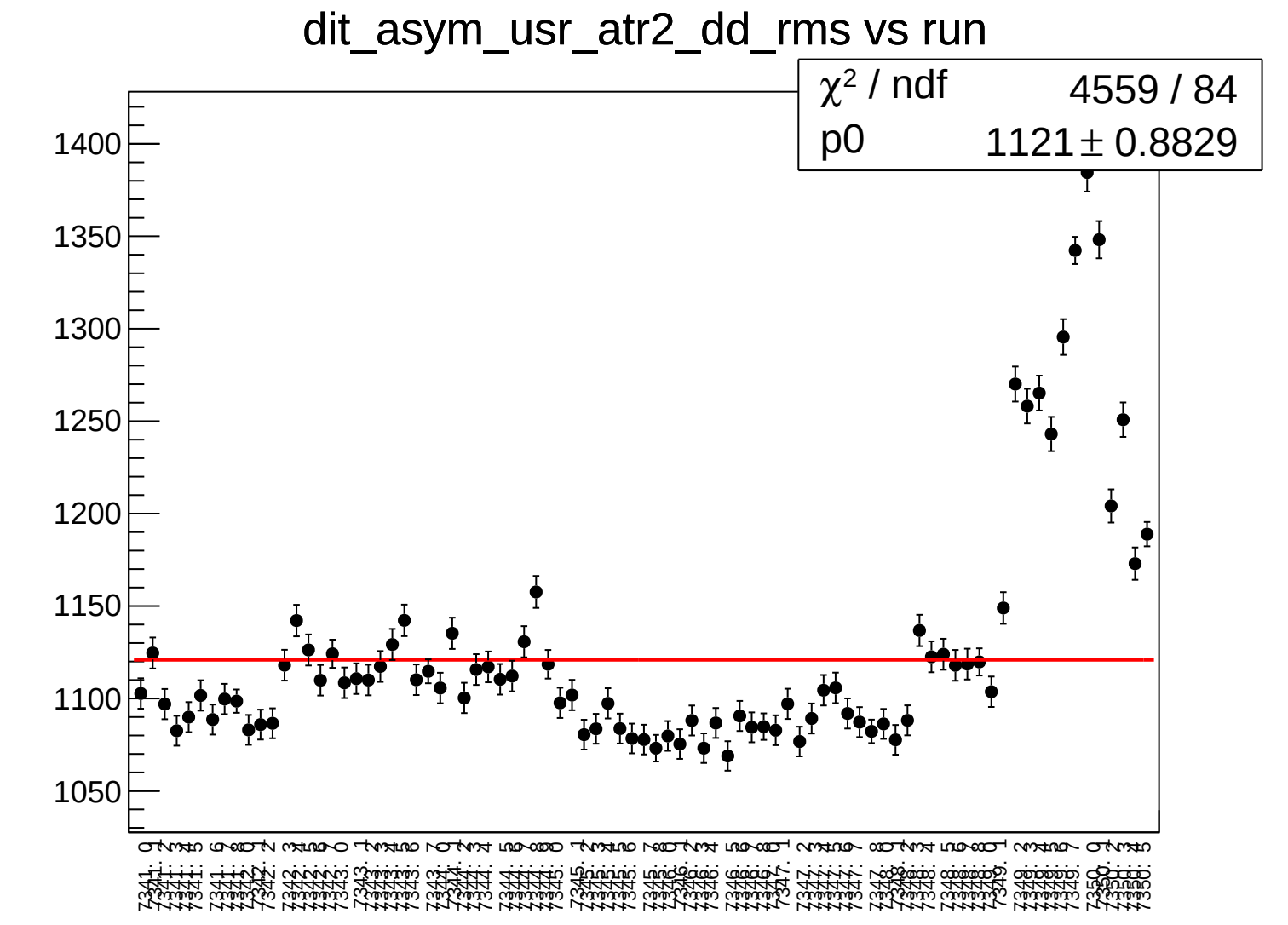

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.85 / 84
p0 3168 ± 6550
×10³
pull
Entries 85
Mean −126
Std Dev 0

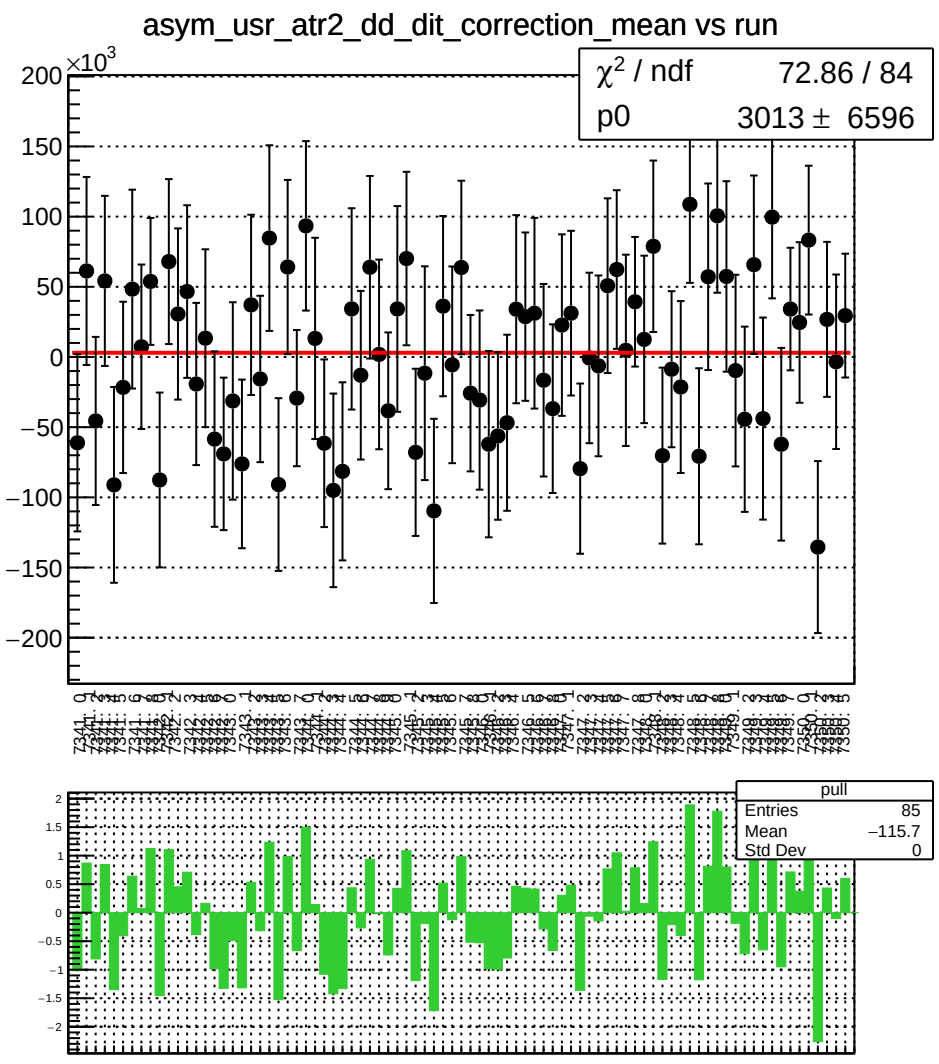

pull1D
Entries 85
Mean −0.01963
Std Dev 0.9192

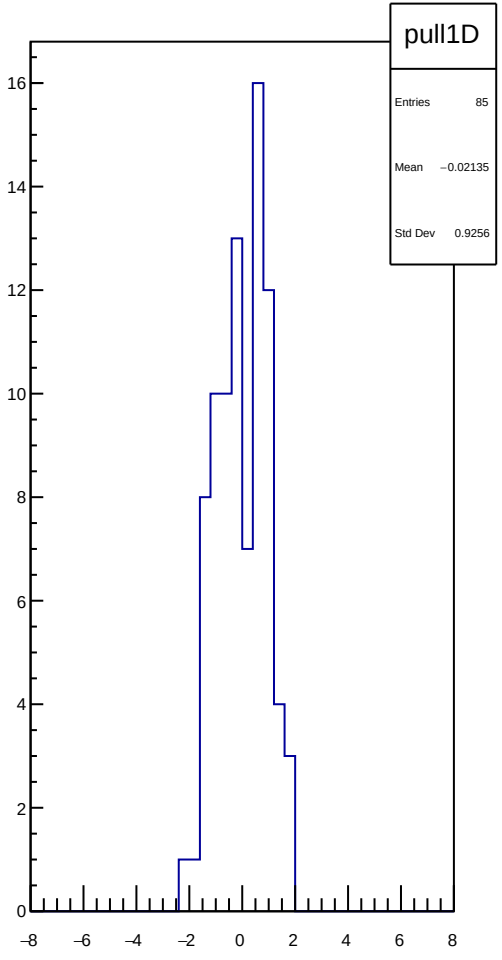

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8195 / 84
p0 5873 ± 4.631
7500
7000
6500
6000
5500
5000

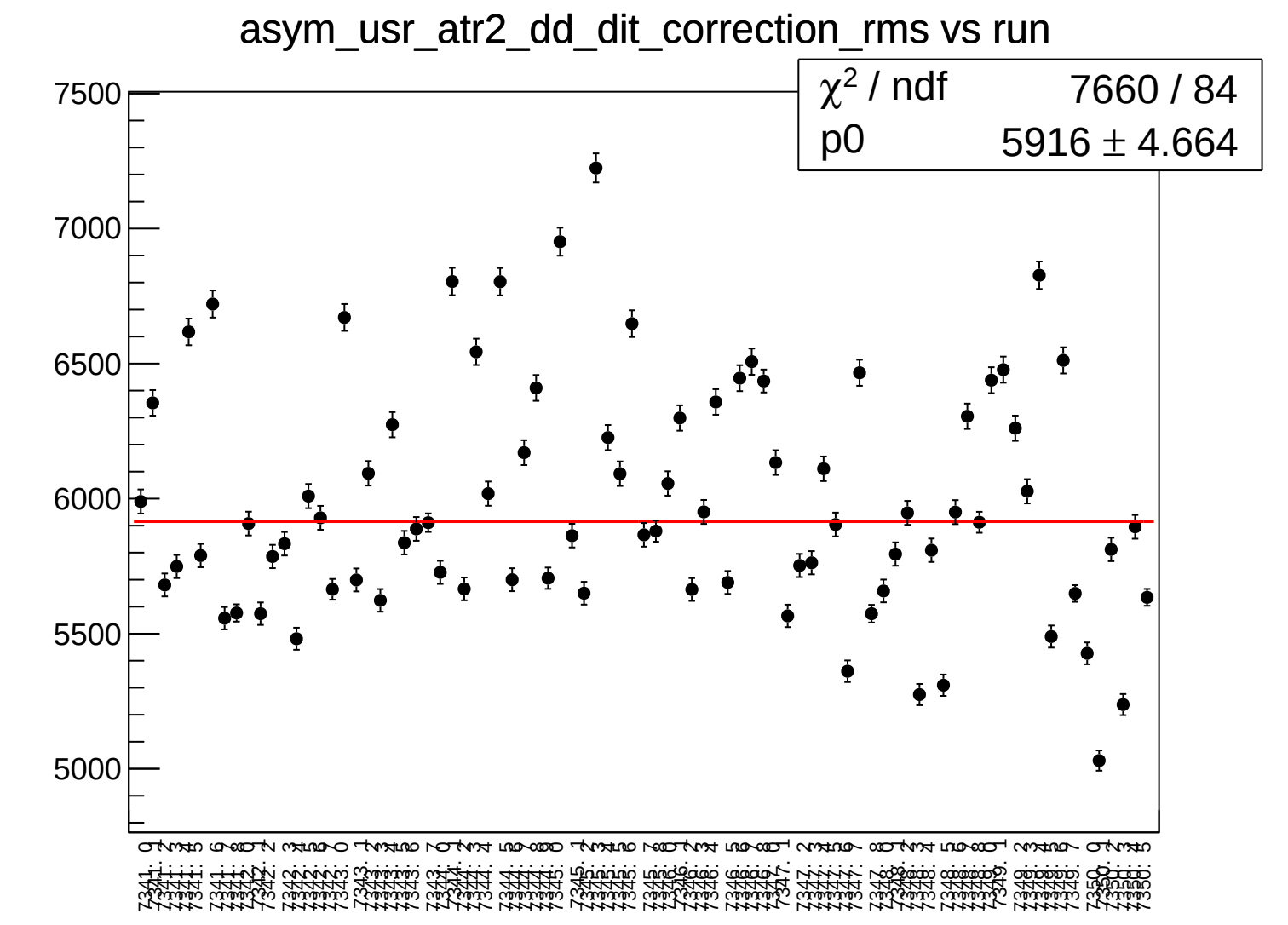

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 84.53 / 84
p0 −2156 ± 1249
pull
Entries 85
Mean 30.19
Std Dev 57

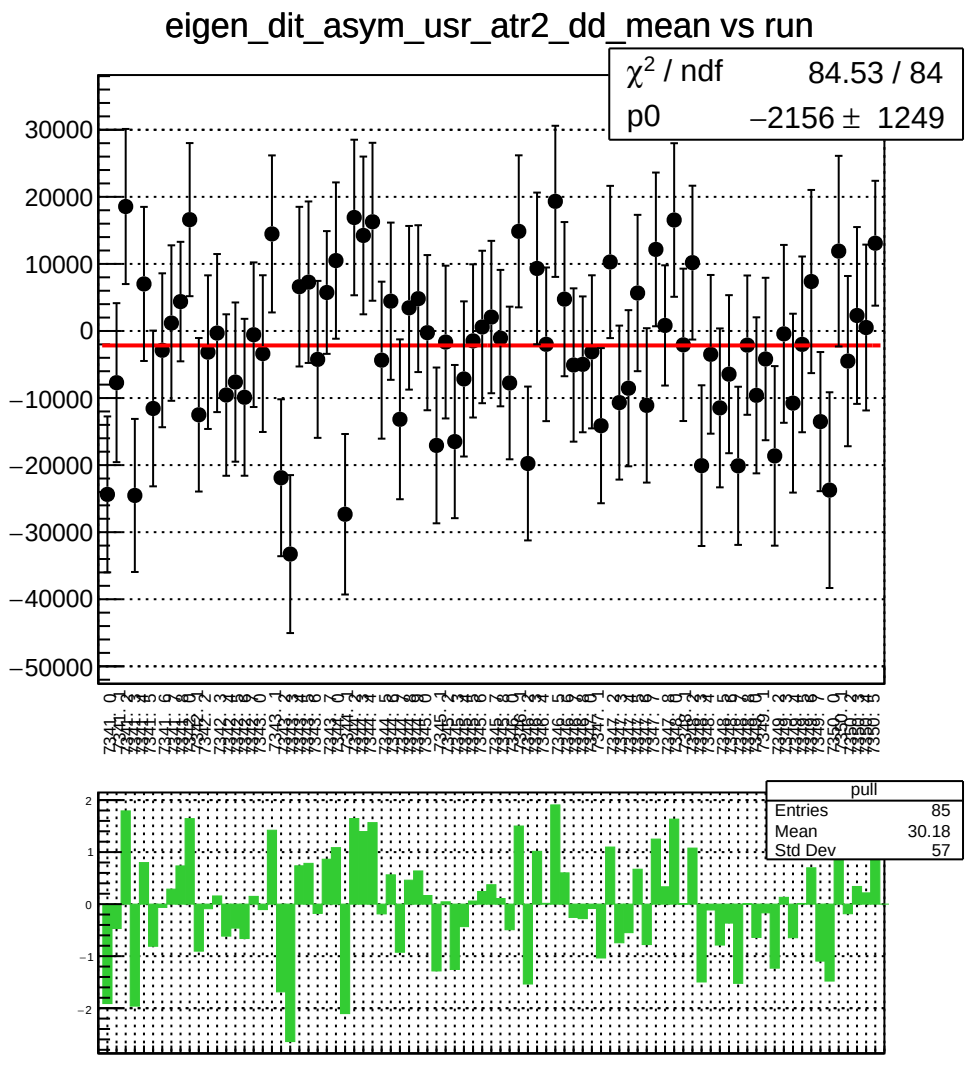

pull1D
Entries 85
Mean −0.016
Std Dev 0.9971

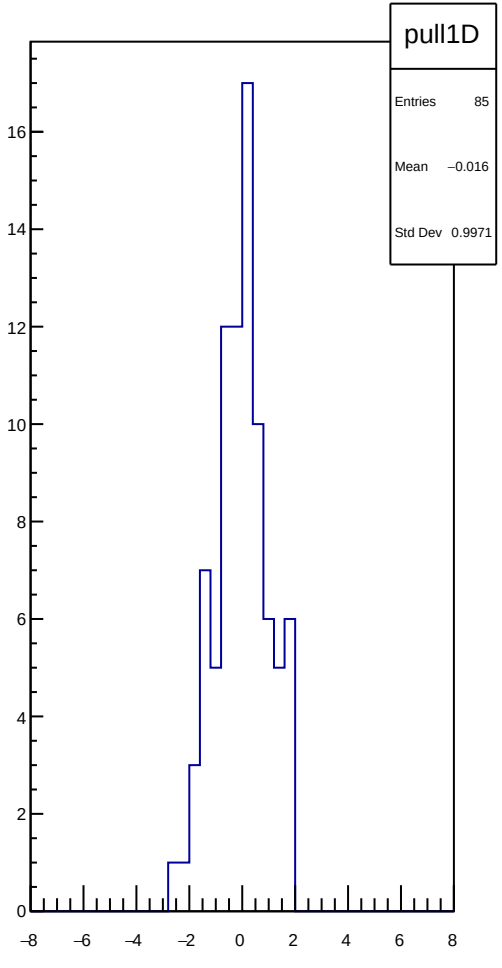

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 4559 / 84
p0 1121 ± 0.8829
1400
1350
1300
1250
1200
1150
1100
1050

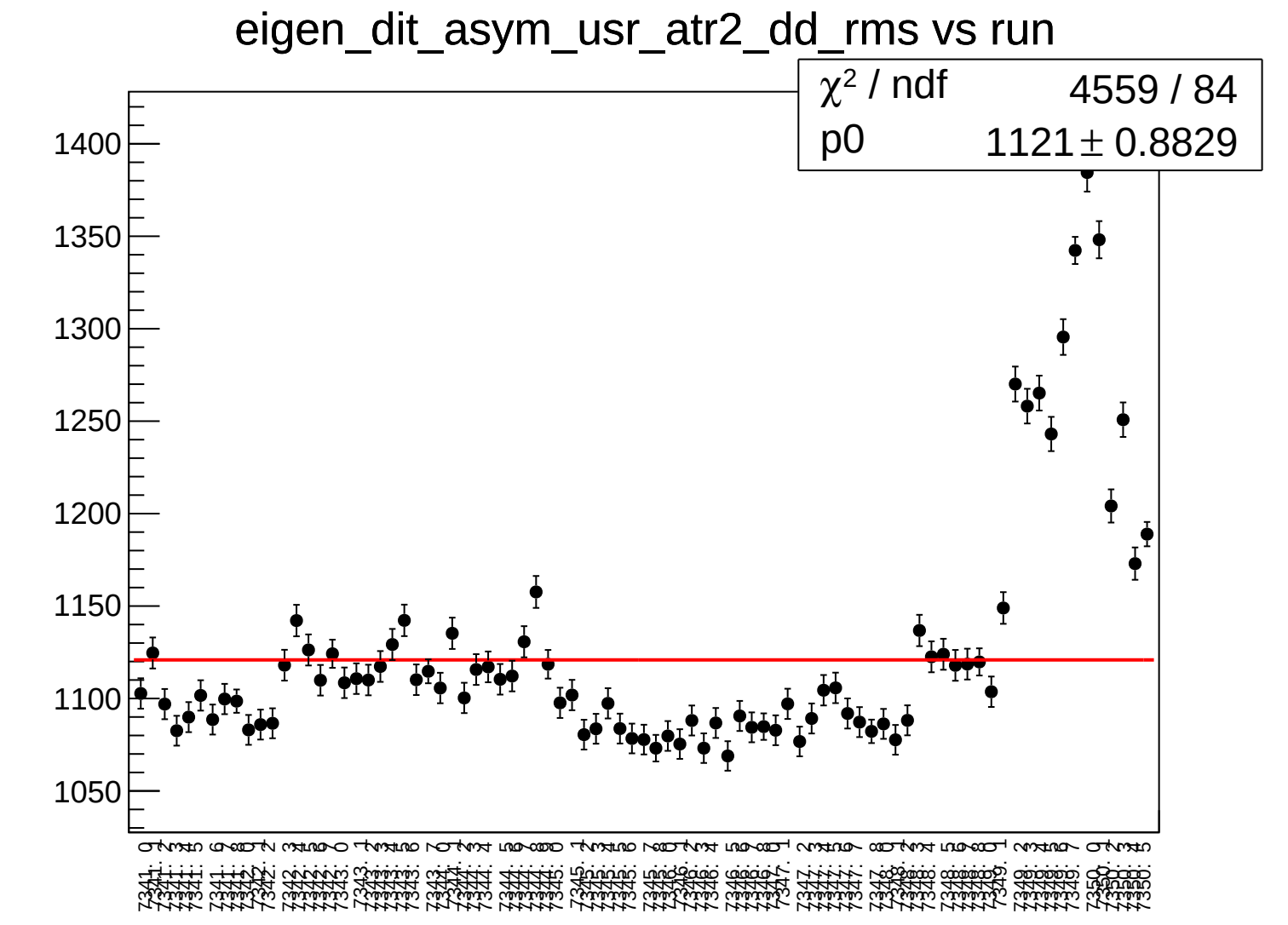

asym_usr_atr2_dd_dit_correction_mean vs run
χ² / ndf 72.86 / 84
p0 3013 ± 6596
pull
Entries 85
Mean −115.7
Std Dev 0

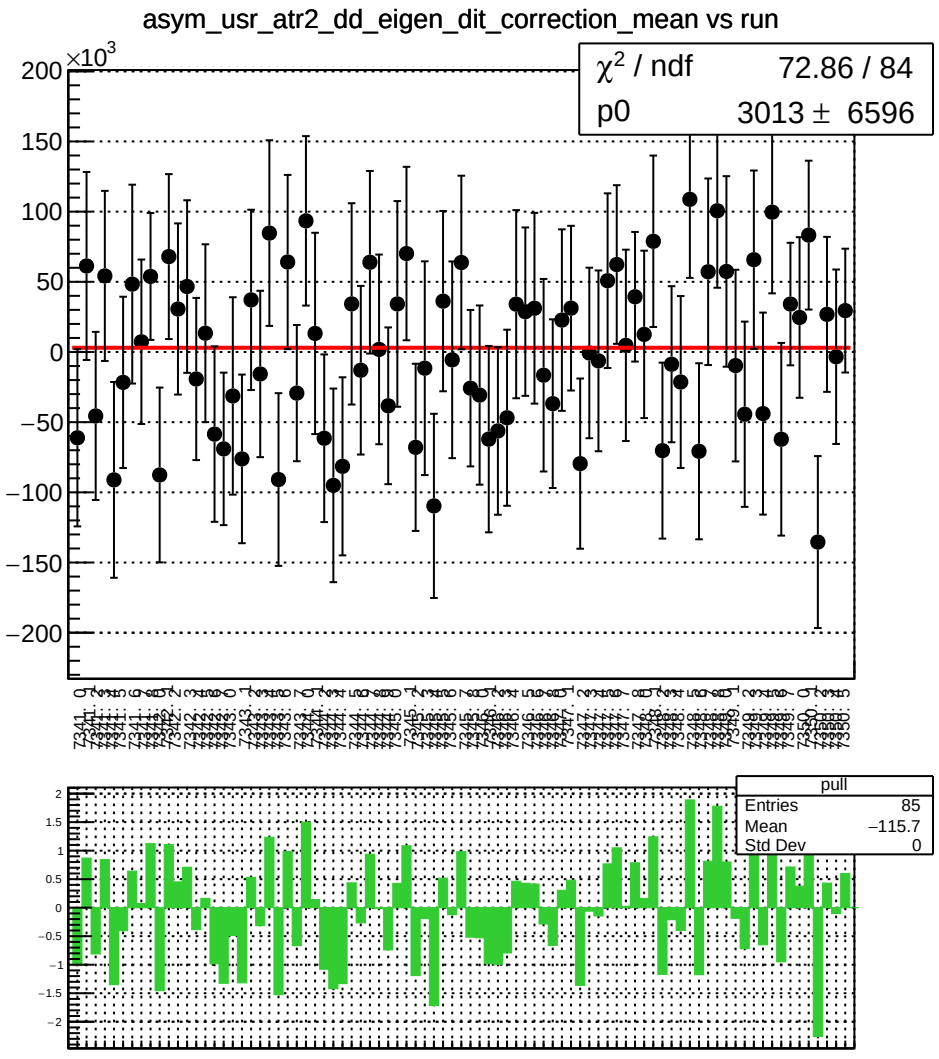

pull1D
Entries 85
Mean −0.02135
Std Dev 0.9256

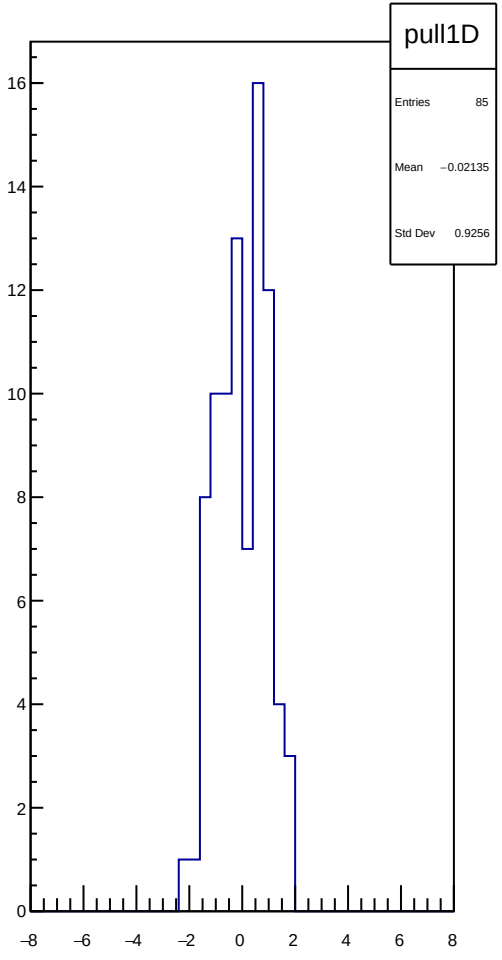

asym_usr_atr2_dd_dit_correction_rms vs run
χ^2 / ndf 7660 / 84
p0 5916 ± 4.664
7500
7000
6500
6000
5500
5000

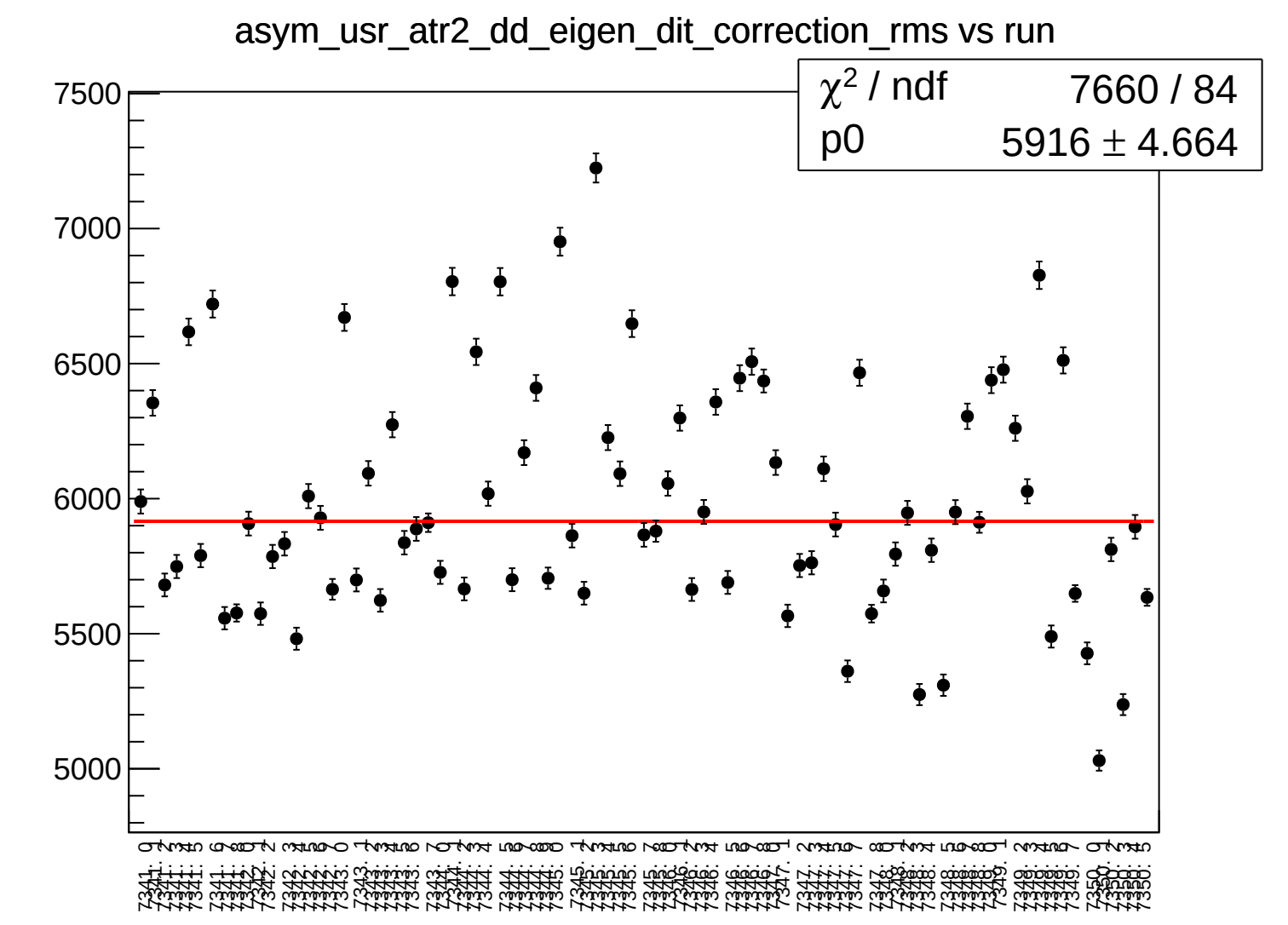

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 84.53 / 84
p0 −2156 ± 1249
pull
Entries 85
Mean 30.18
Std Dev 57

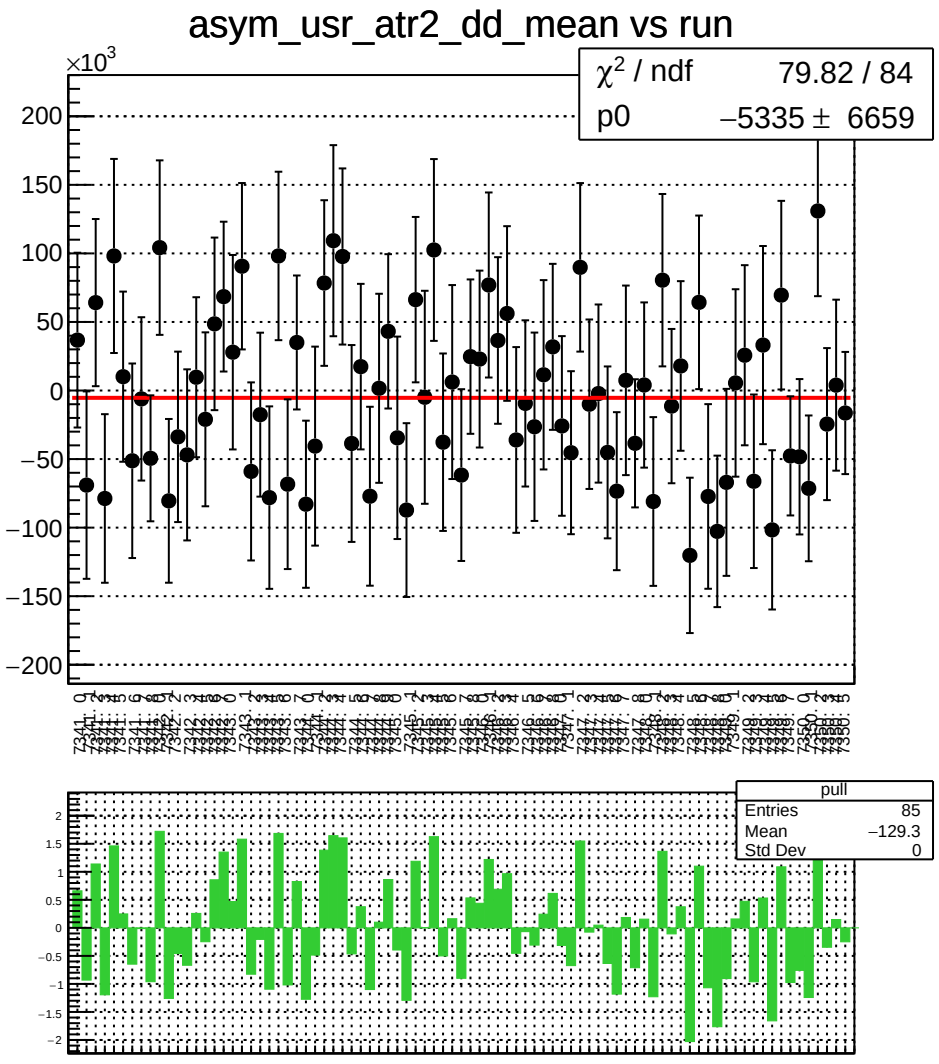

pull1D
Entries 85
Mean −0.016
Std Dev 0.9971

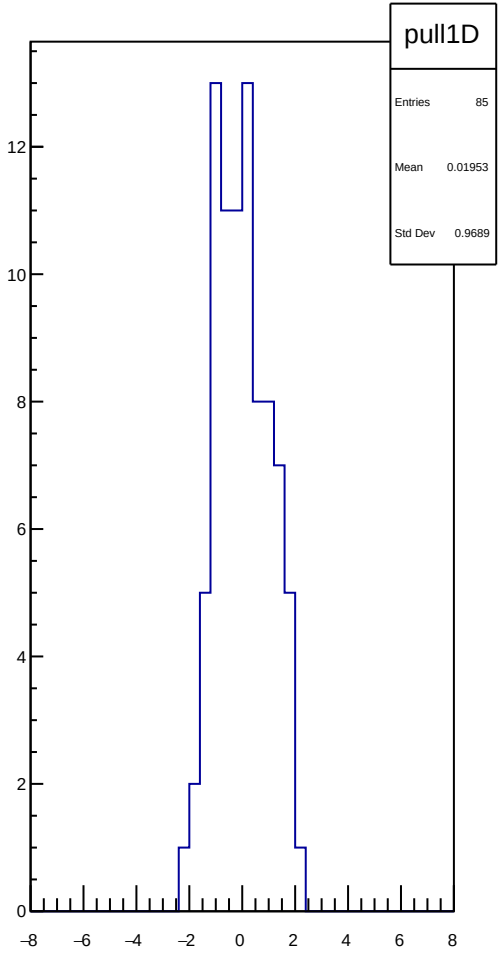

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 4559 / 84
p0 1121 ± 0.8829
1400
1350
1300
1250
1200
1150
1100
1050

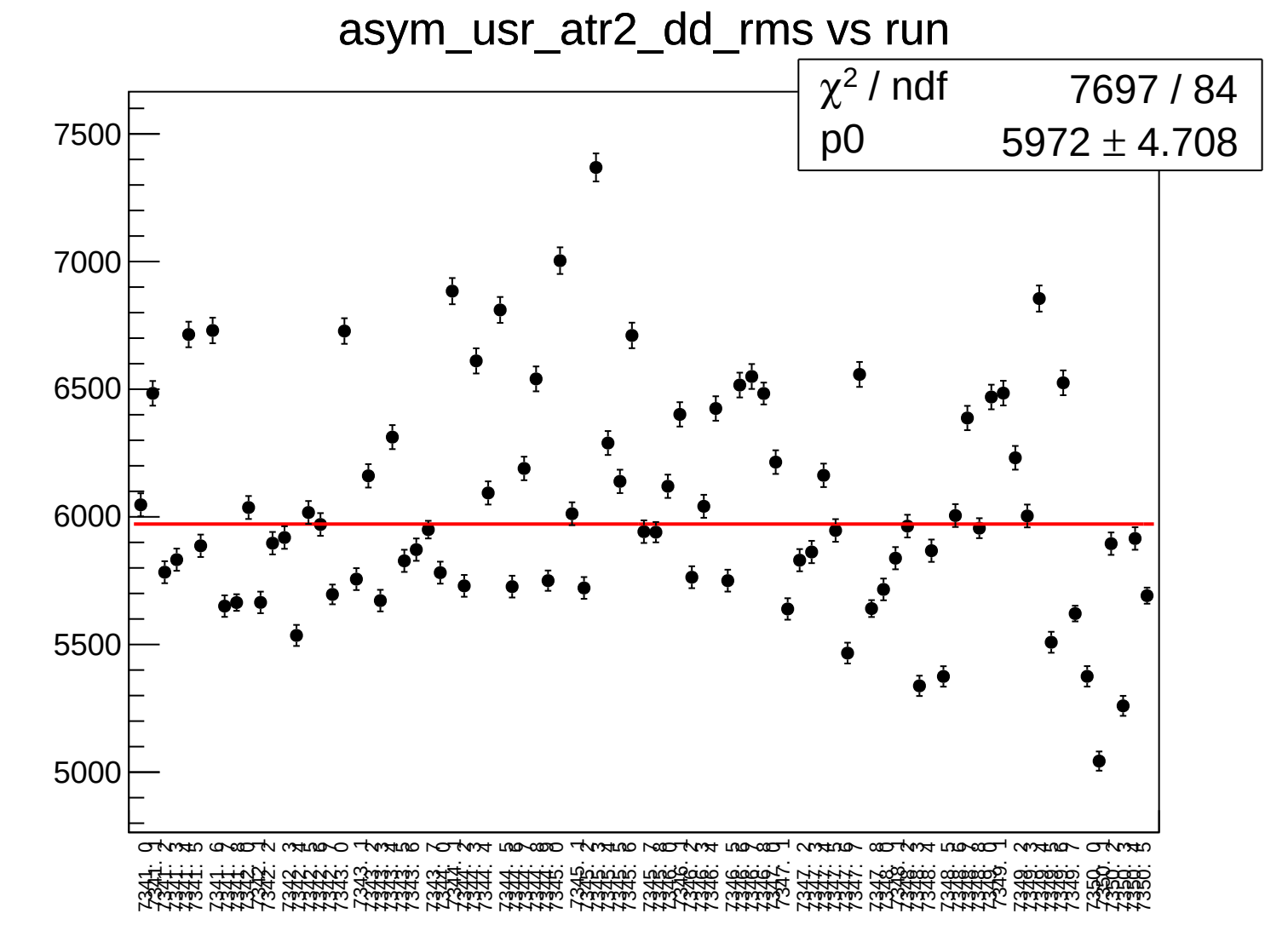

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.86 / 84
p0 3013 ± 6596
pull
Entries 85
Mean −115.7
Std Dev 0

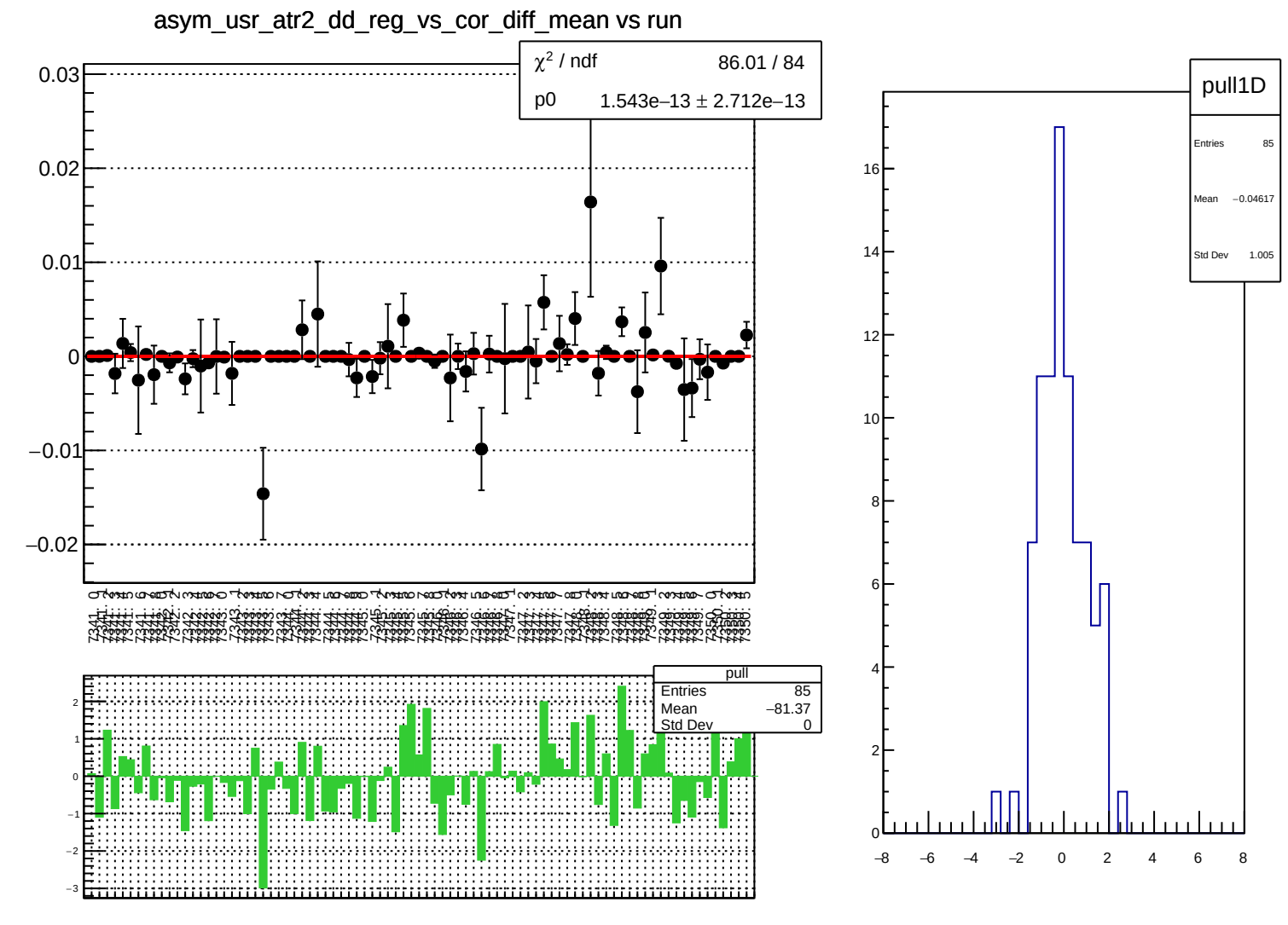

pull1D
Entries 85
Mean −0.02135
Std Dev 0.9256

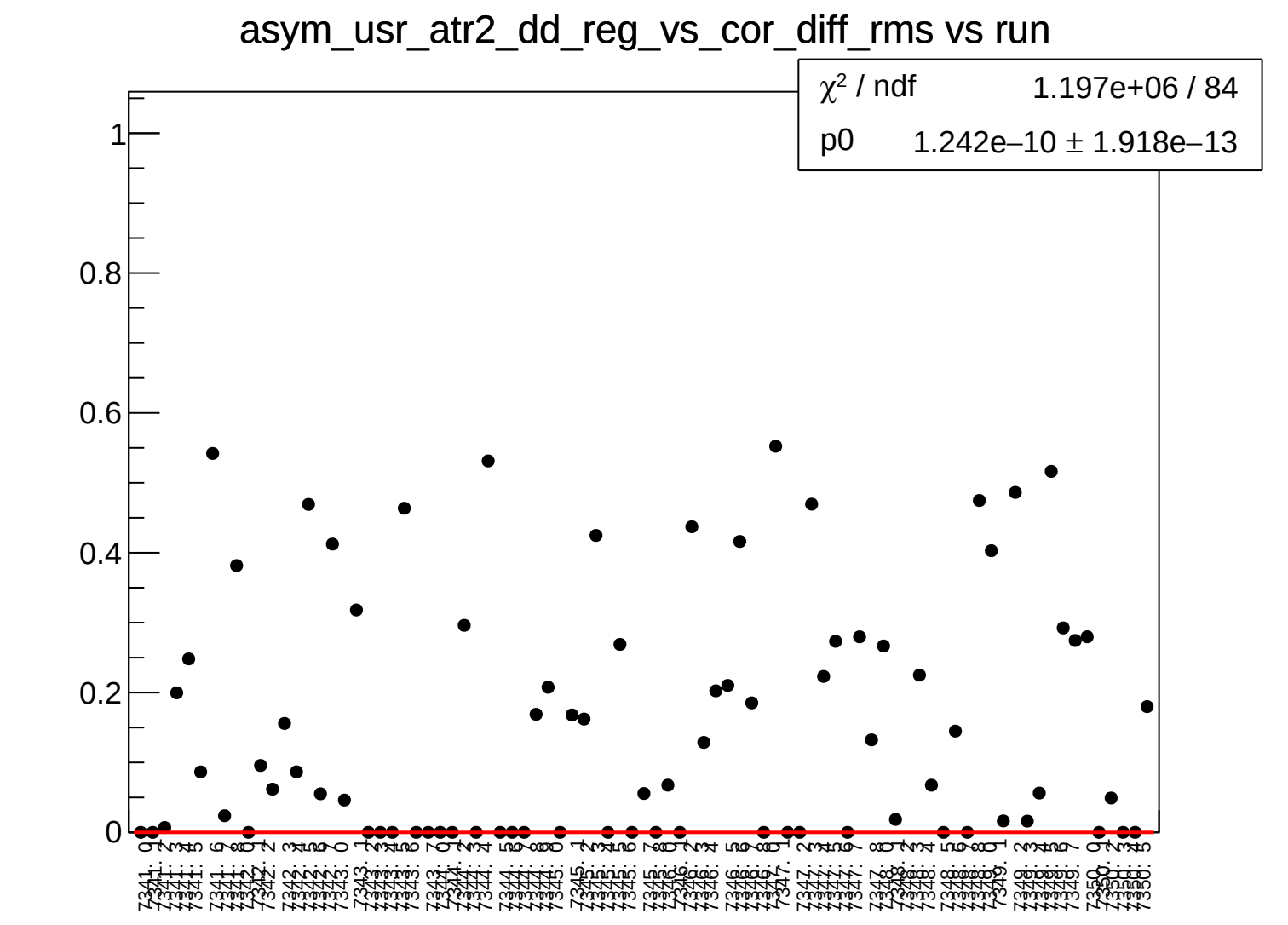

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7660 / 84
p0 5916 ± 4.664
7500
7000
6500
6000
5500
5000

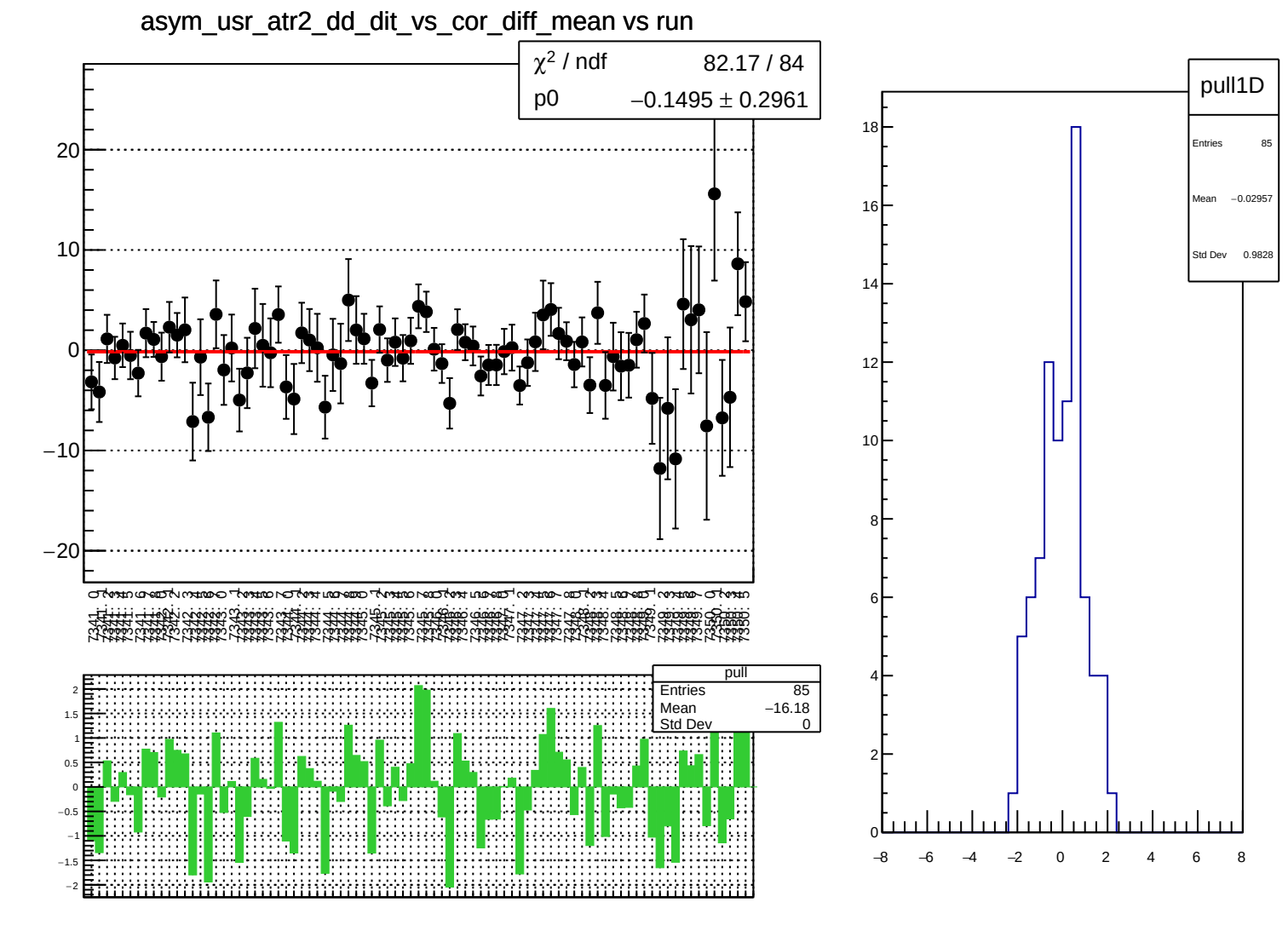

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 79.82 / 84
p0 −5335 ± 6659
pull
Entries 85
Mean −129.3
Std Dev 0

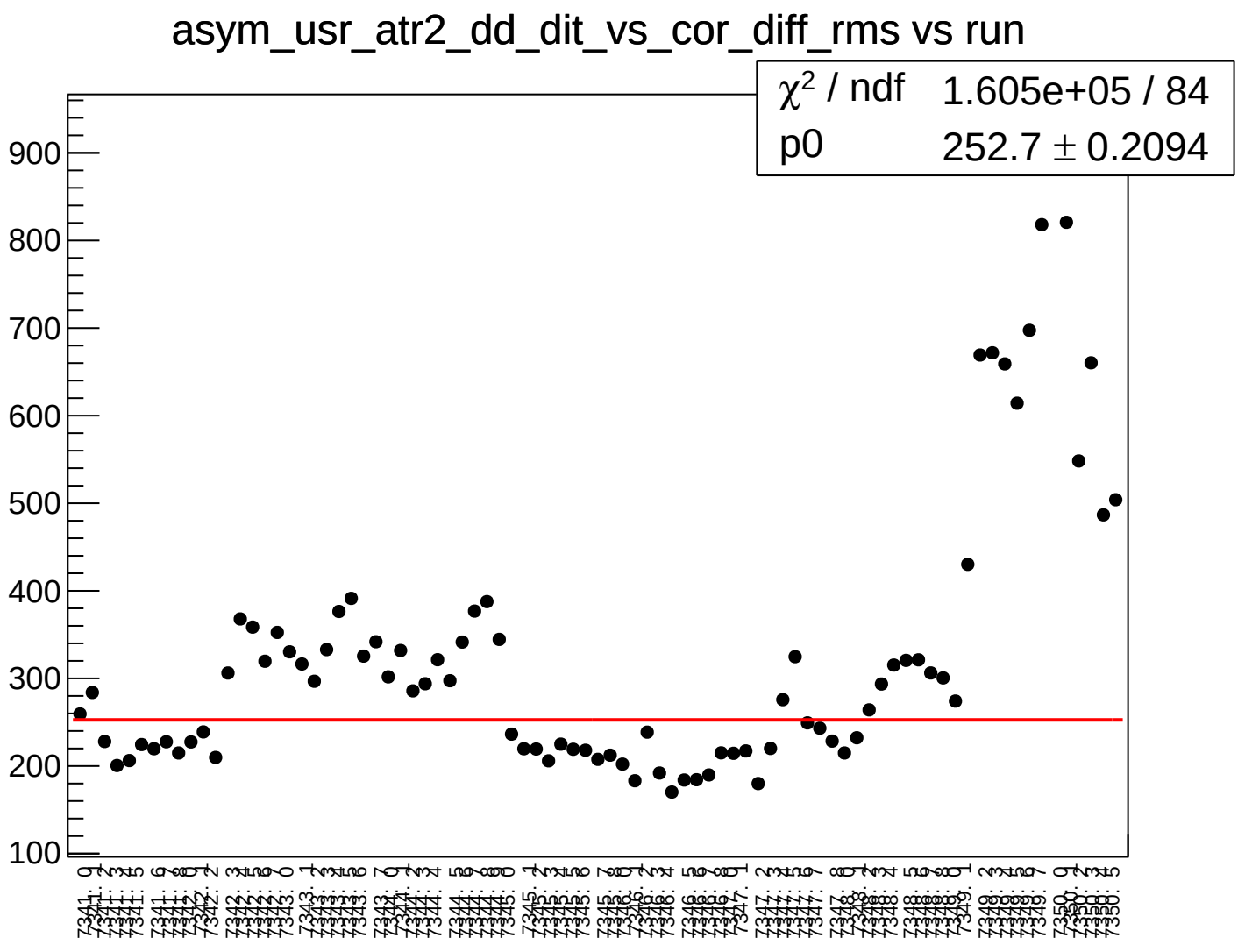

pull1D
Entries 85
Mean 0.01953
Std Dev 0.9689

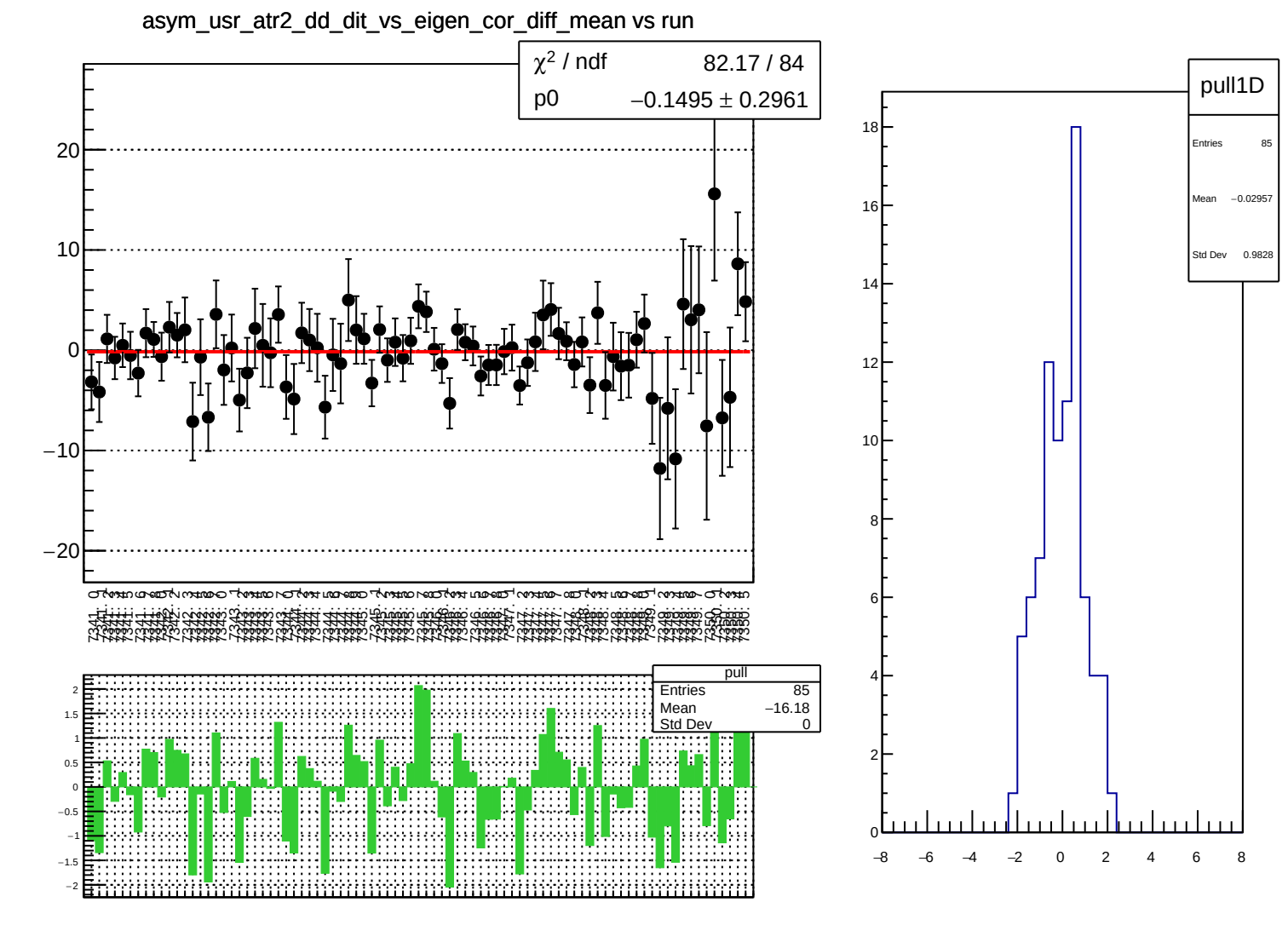

asym_usr_atr2_dd_rms vs run
χ² / ndf 7697 / 84
p0 5972 ± 4.708
7500
7000
6500
6000
5500
5000

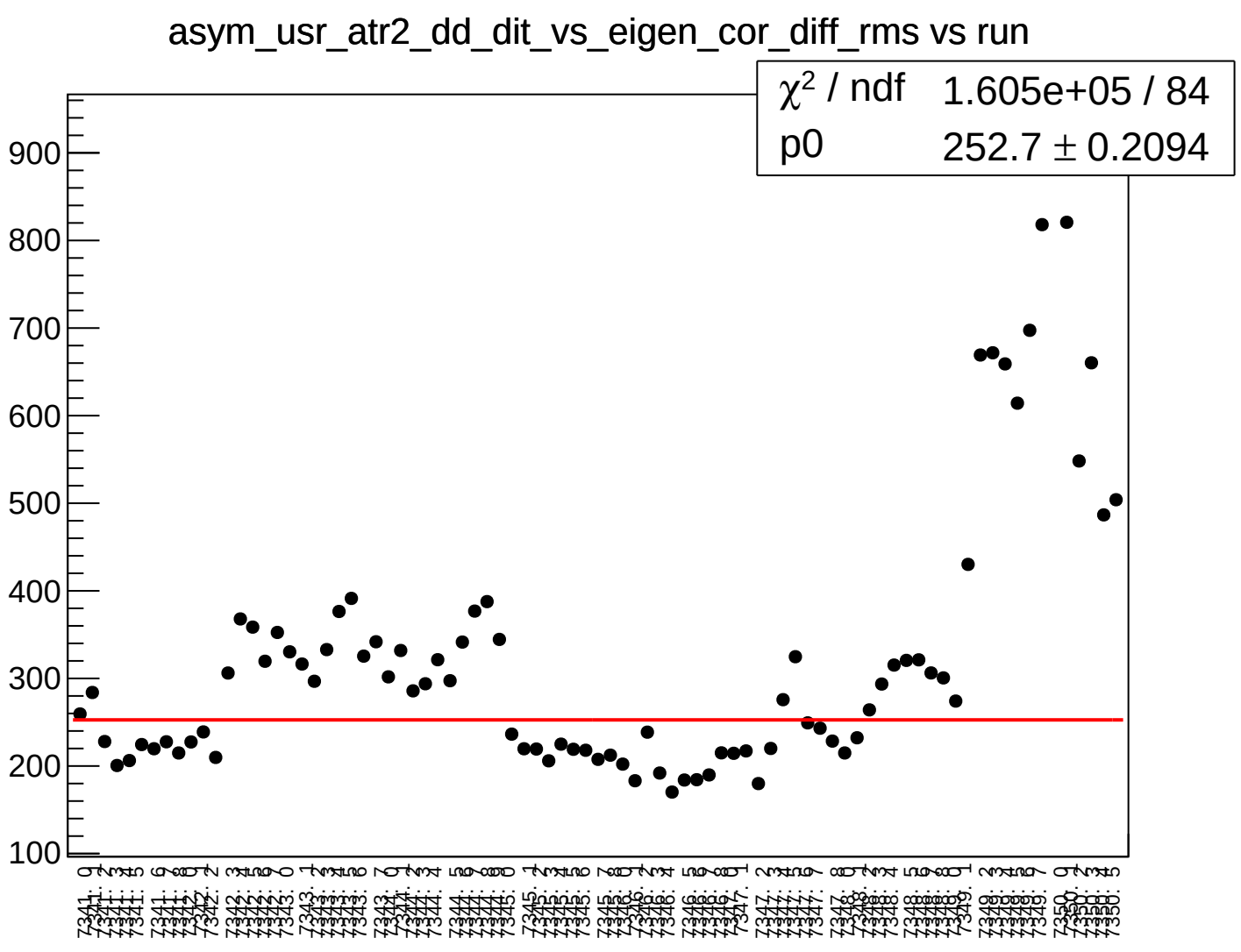

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.01 / 84
p0 1.543e−13 ± 2.712e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean −81.37
Std Dev 0
pull1D
Entries 85
Mean −0.04617
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

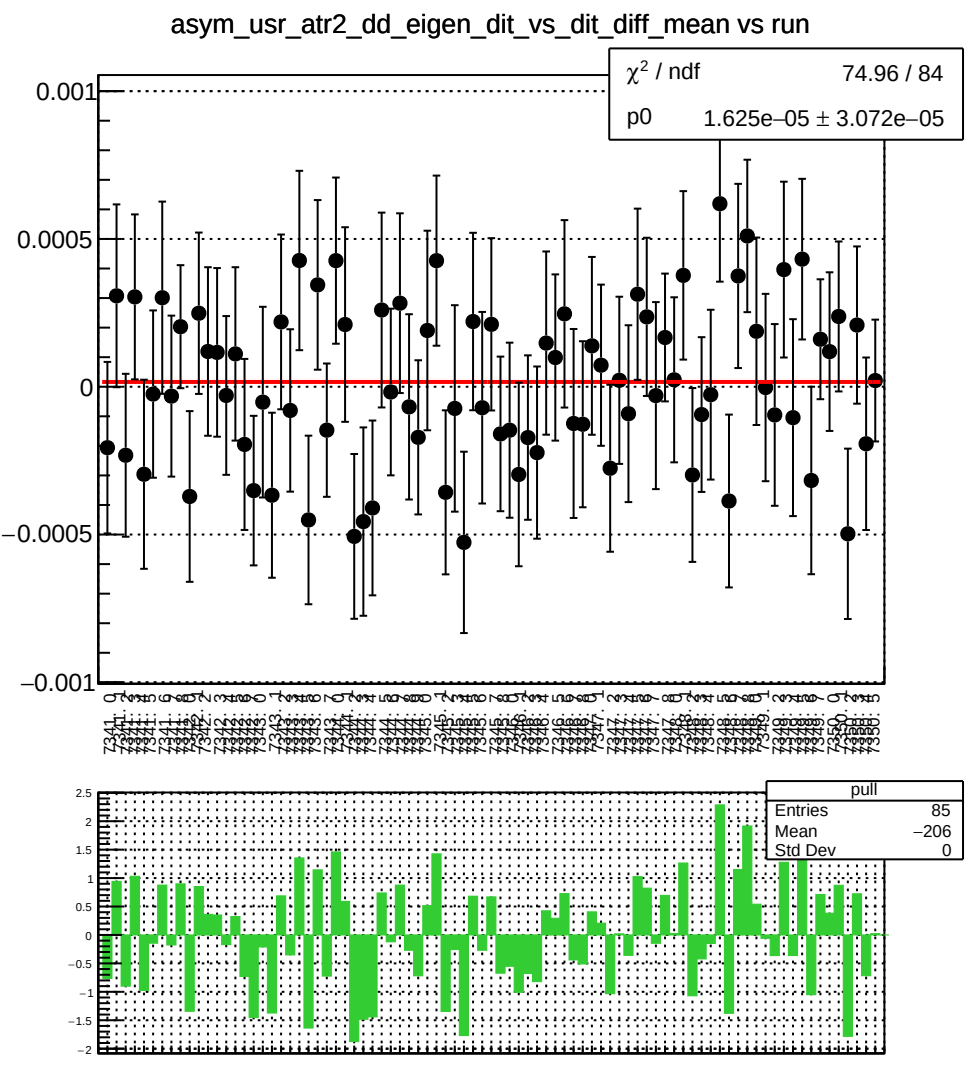

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.197e+06 / 84
p0 1.242e−10 ± 1.918e−13
1
0.8
0.6
0.4
0.2
0

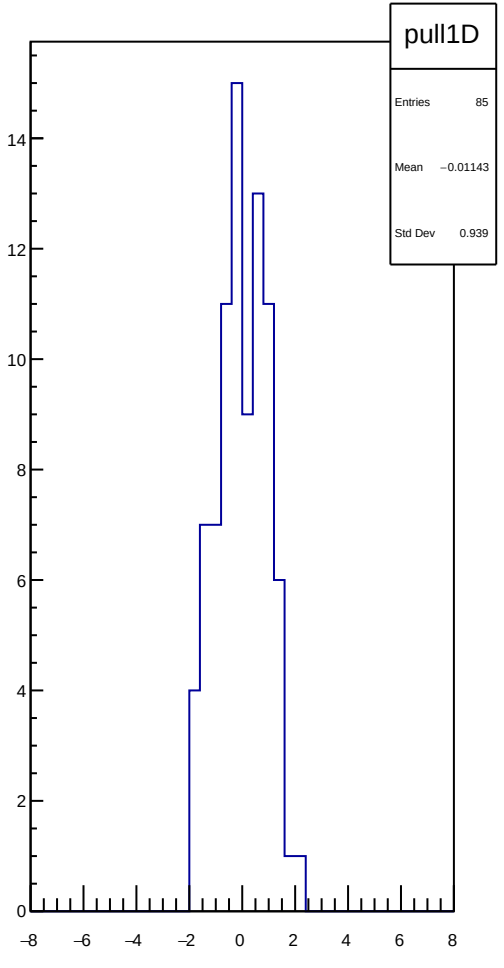

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.17 / 84
p0 −0.1495 ± 0.2961
pull
Entries 85
Mean −16.18
Std Dev 0
pull1D
Entries 85
Mean −0.02957
Std Dev 0.9828

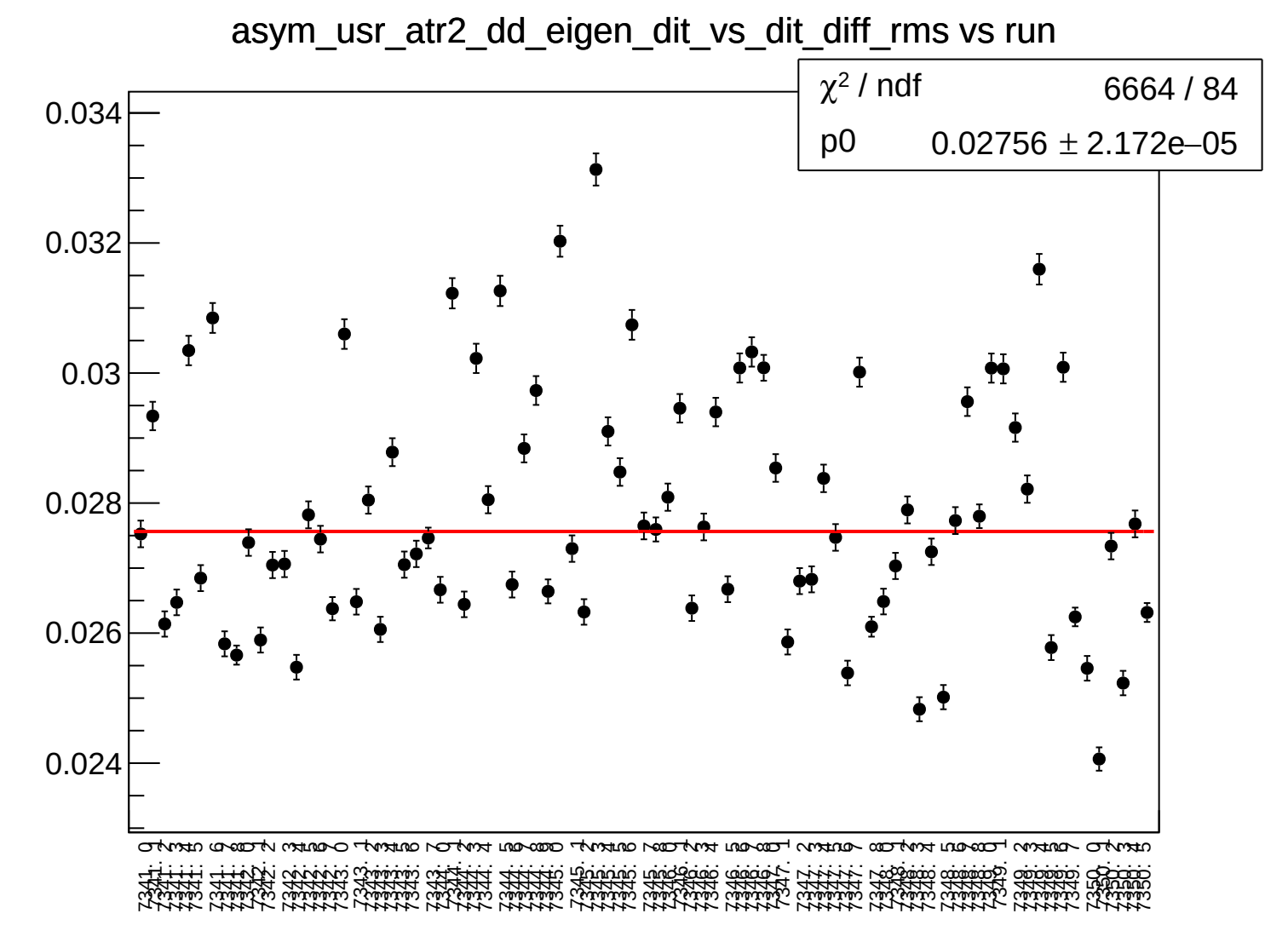

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.605e+05 / 84
p0 252.7 ± 0.2094
900
800
700
600
500
400
300
200
100

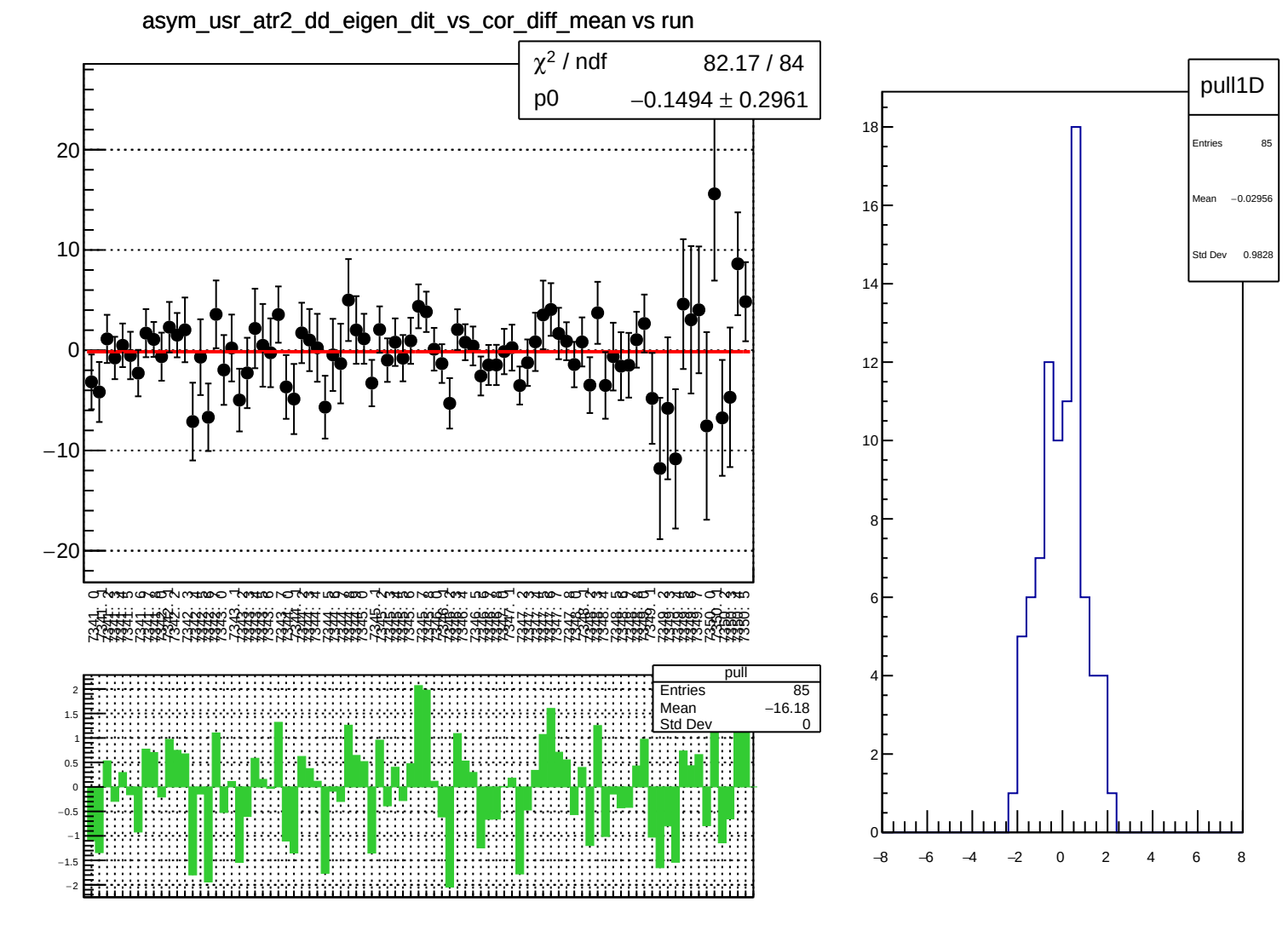

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.17 / 84
p0 −0.1495 ± 0.2961
20
10
0
−10
−20
pull
Entries 85
Mean −16.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.02957
Std Dev 0.9828
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

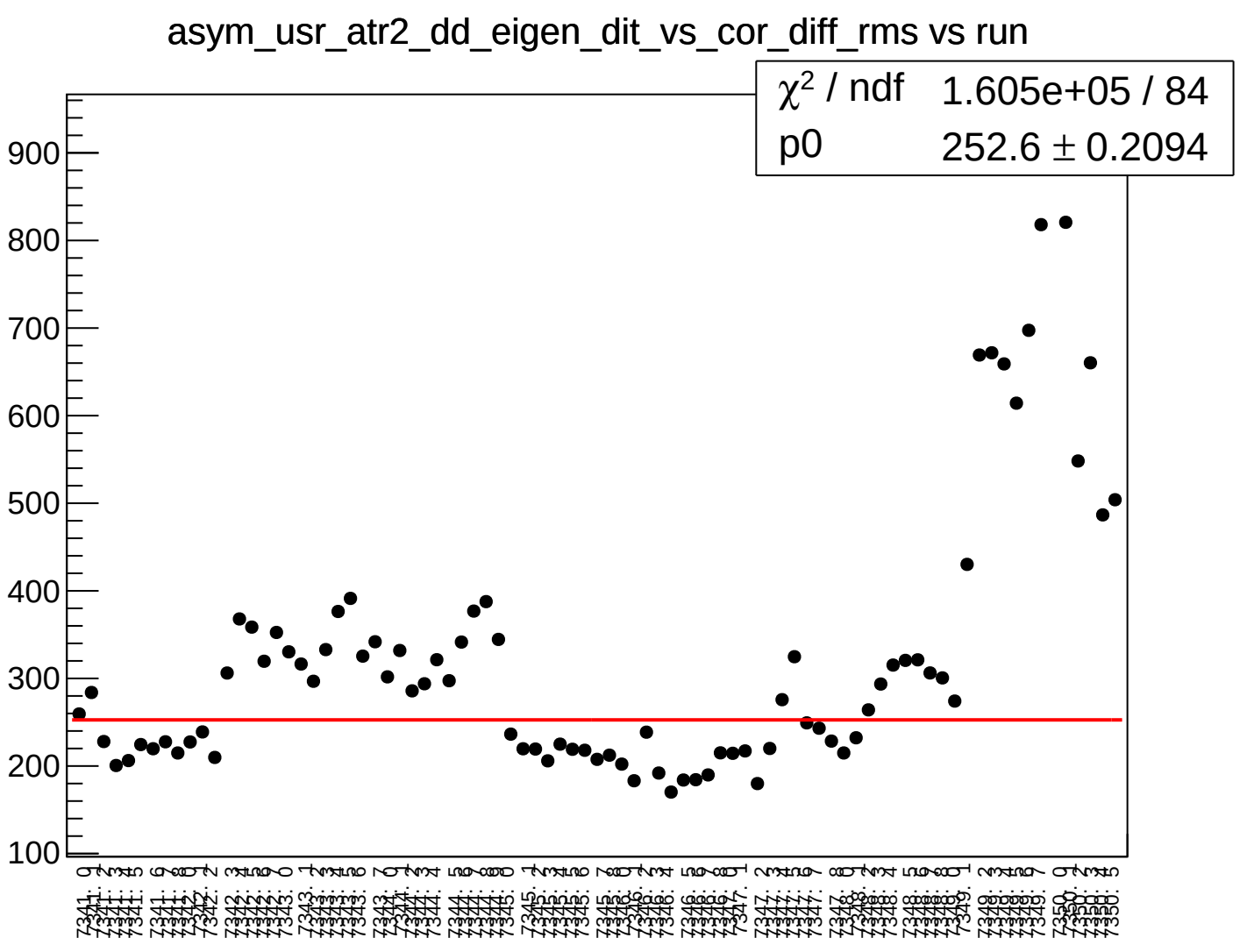

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.605e+05 / 84
p0 252.7 ± 0.2094
900
800
700
600
500
400
300
200
100

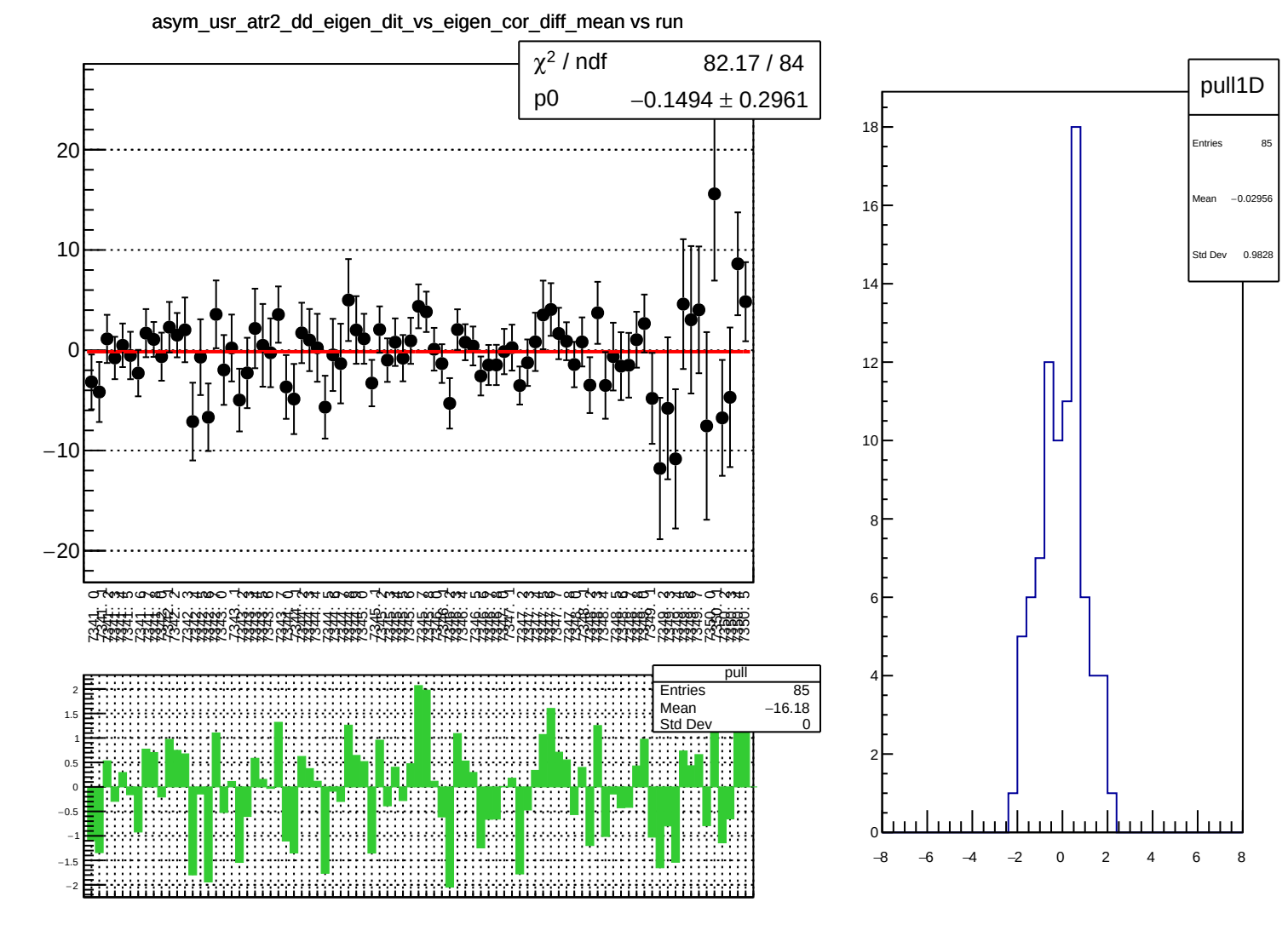

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.96 / 84
p0 1.625e−05 ± 3.072e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean −206
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

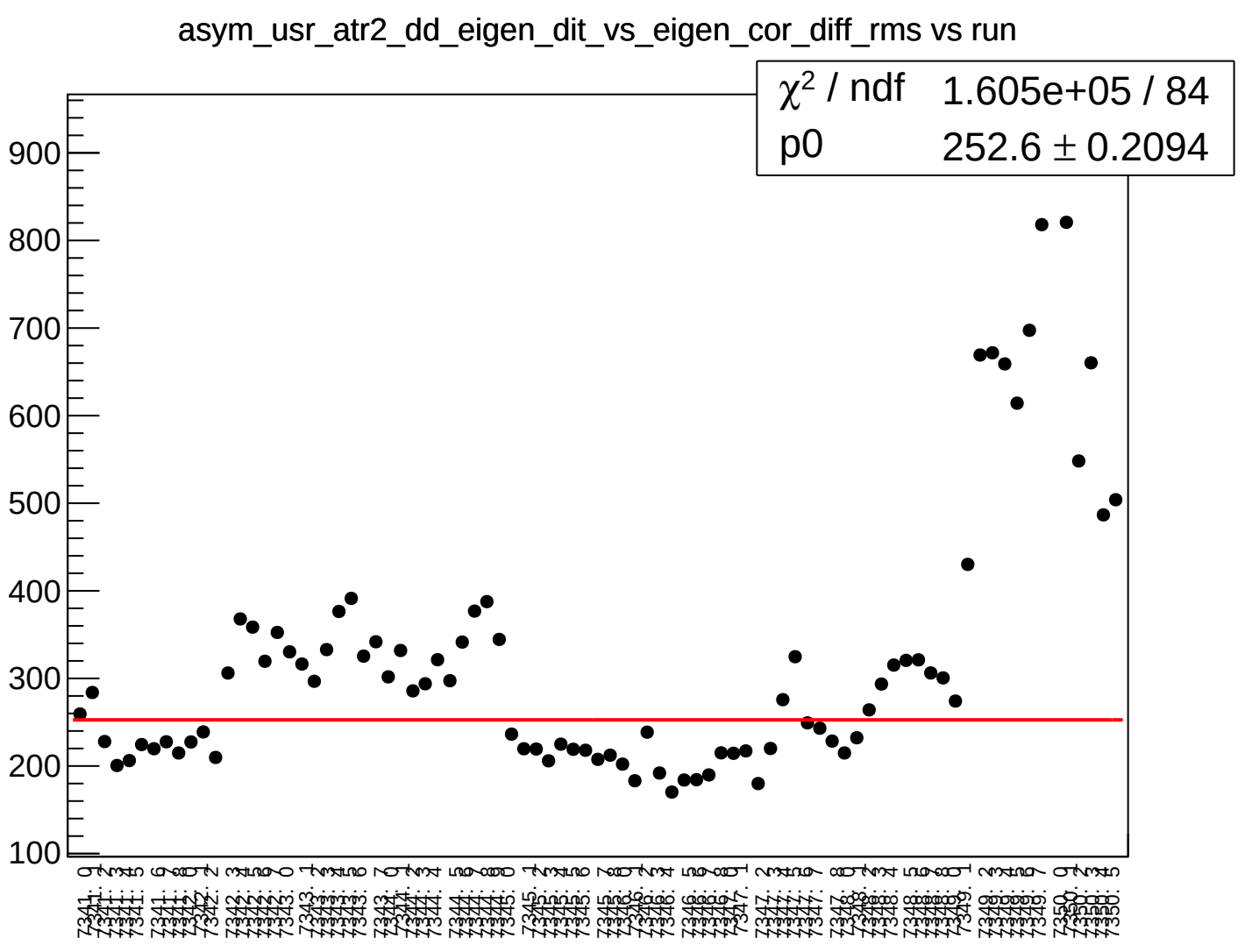

pull1D
Entries 85
Mean −0.01143
Std Dev 0.939
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

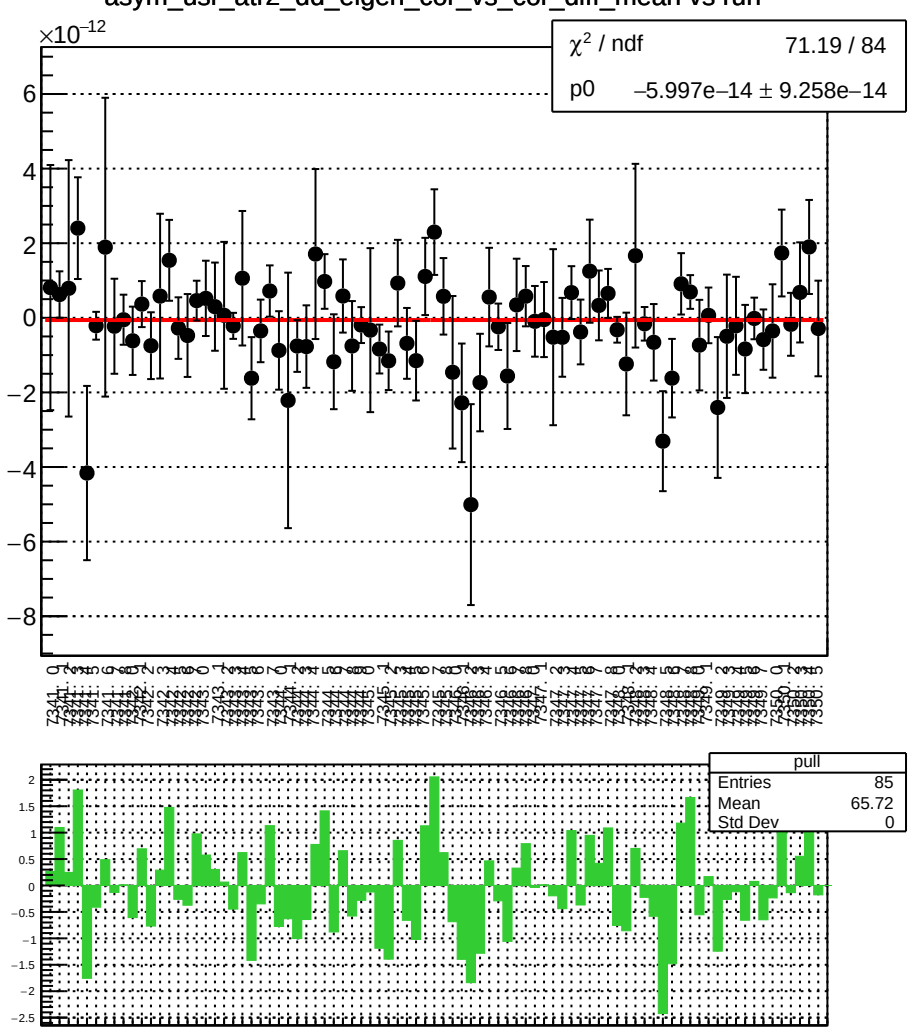

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6664 / 84
p0 0.02756 ± 2.172e−05
0.034
0.032
0.03
0.028
0.026
0.024

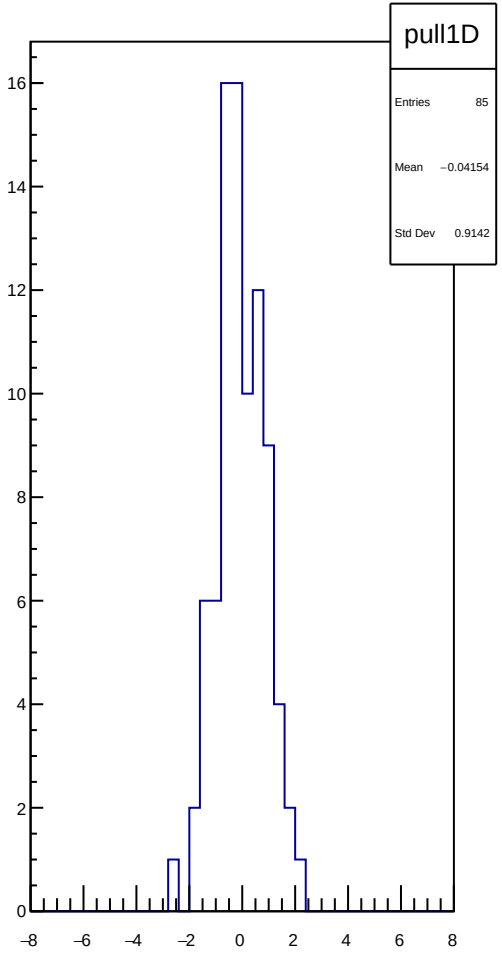

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.17 / 84
p0 −0.1494 ± 0.2961
pull
Entries 85
Mean −16.18
Std Dev 0
pull1D
Entries 85
Mean −0.02956
Std Dev 0.9828

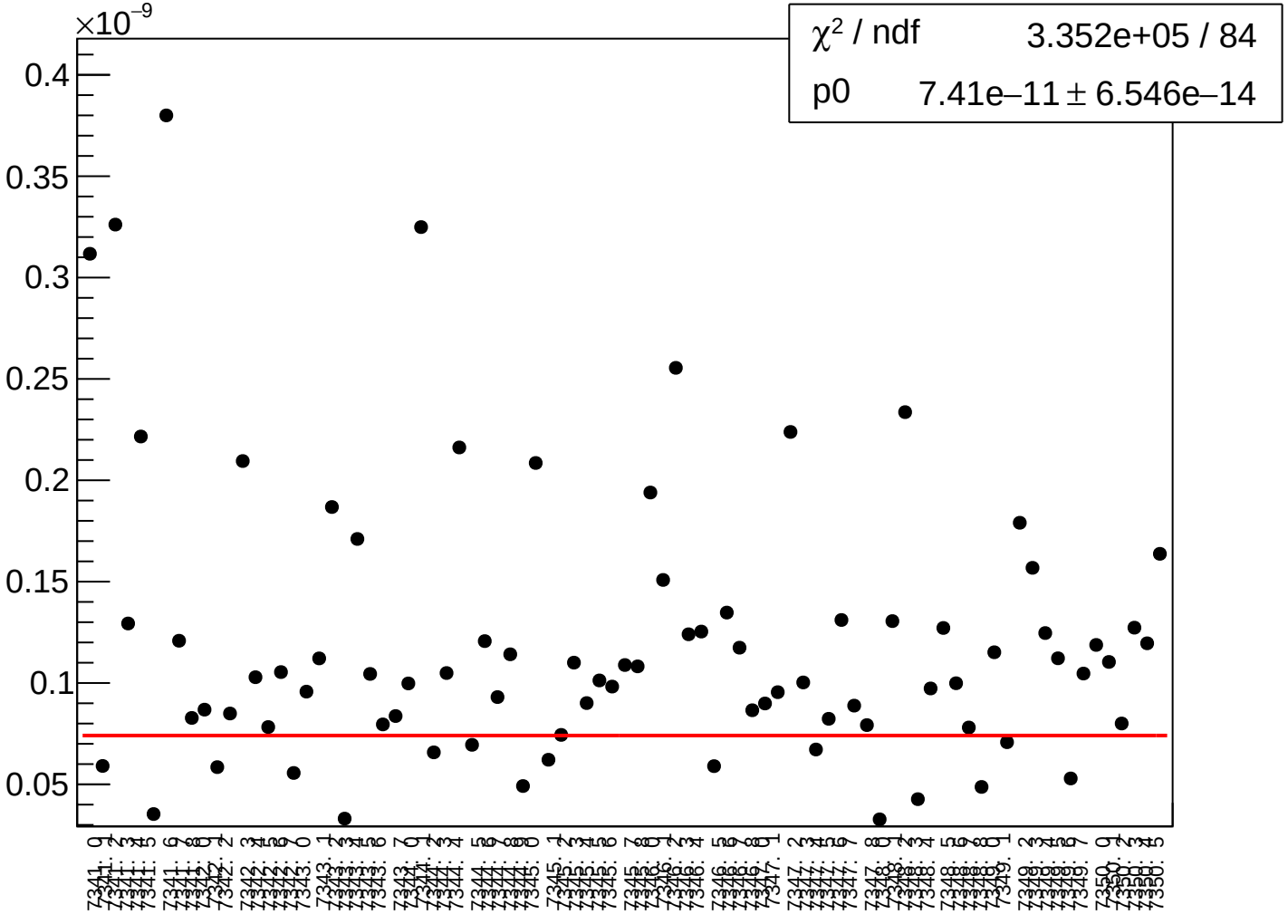

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.605e+05 / 84
p0 252.6 ± 0.2094
900
800
700
600
500
400
300
200
100

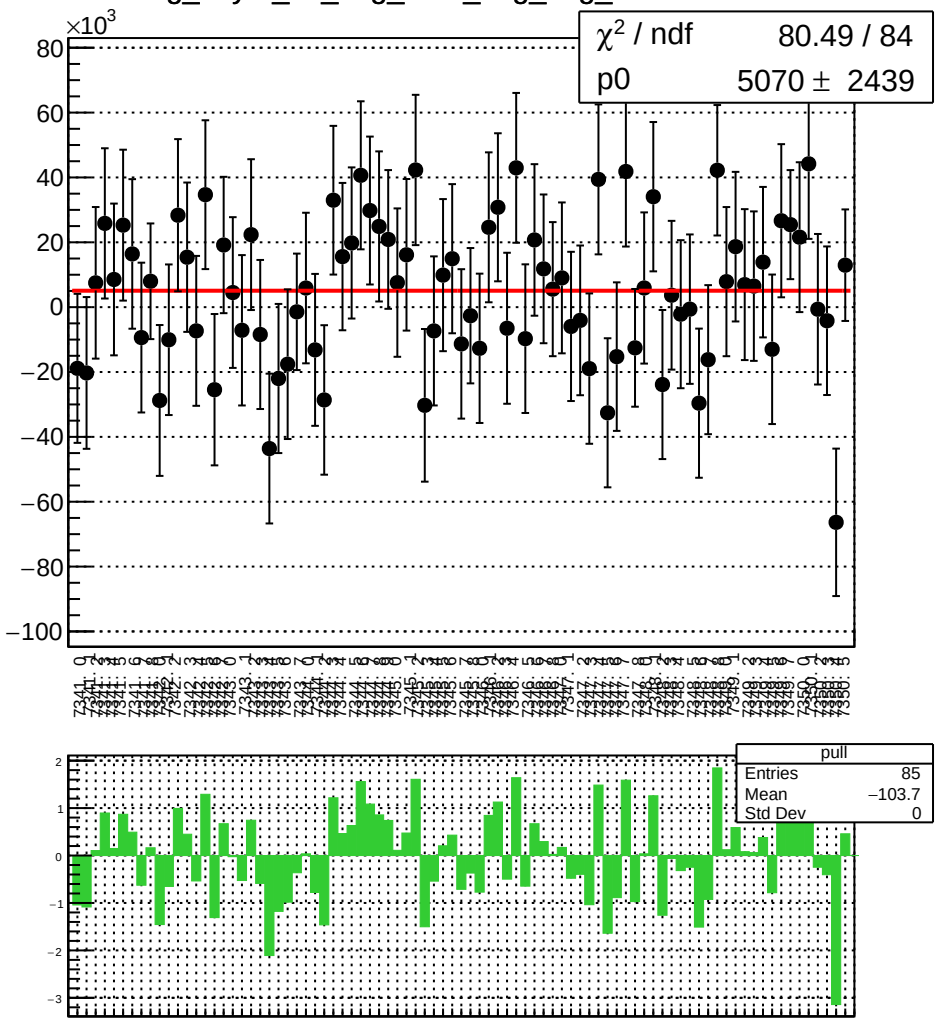

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.17 / 84
p0 −0.1494 ± 0.2961
pull
Entries 85
Mean −16.18
Std Dev 0
pull1D
Entries 85
Mean −0.02956
Std Dev 0.9828

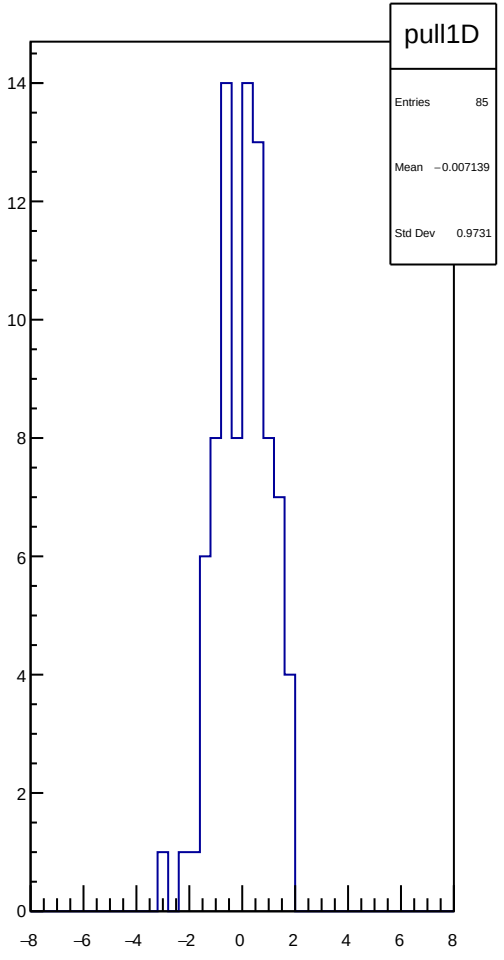

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.605e+05 / 84
p0 252.6 ± 0.2094
900
800
700
600
500
400
300
200
100

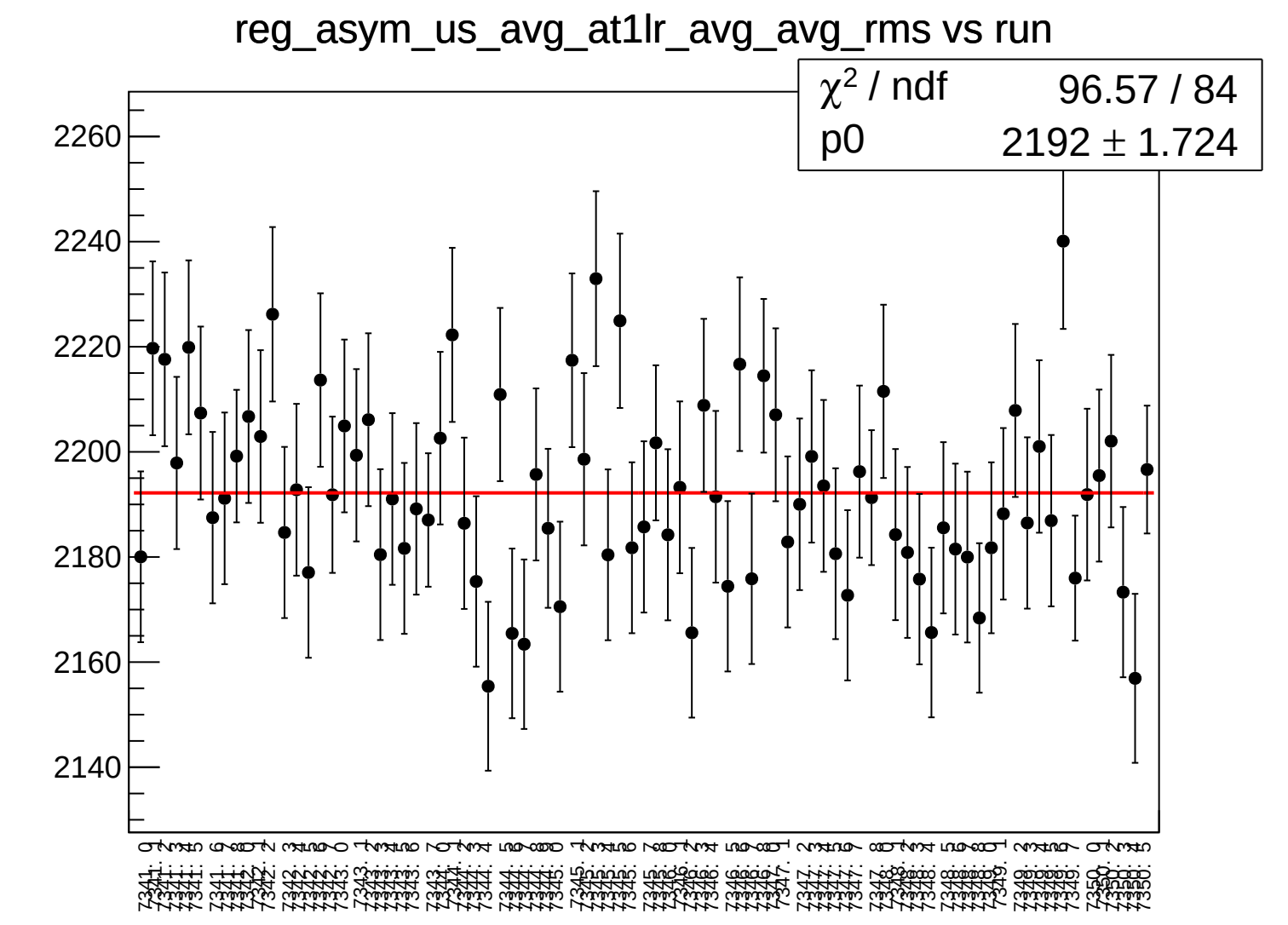

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.19 / 84
p0 −5.997e−14 ± 9.258e−14
pull
Entries 85
Mean 65.72
Std Dev 0

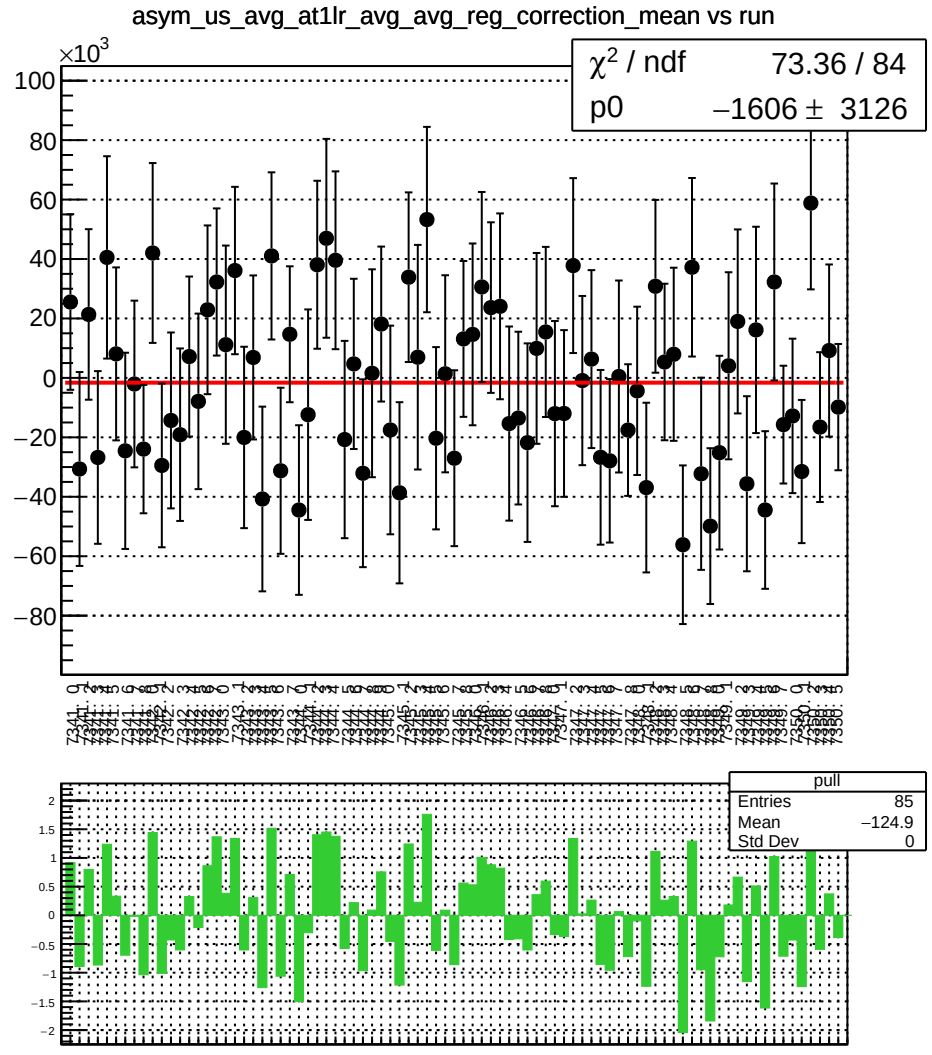

pull1D
Entries 85
Mean −0.04154
Std Dev 0.9142

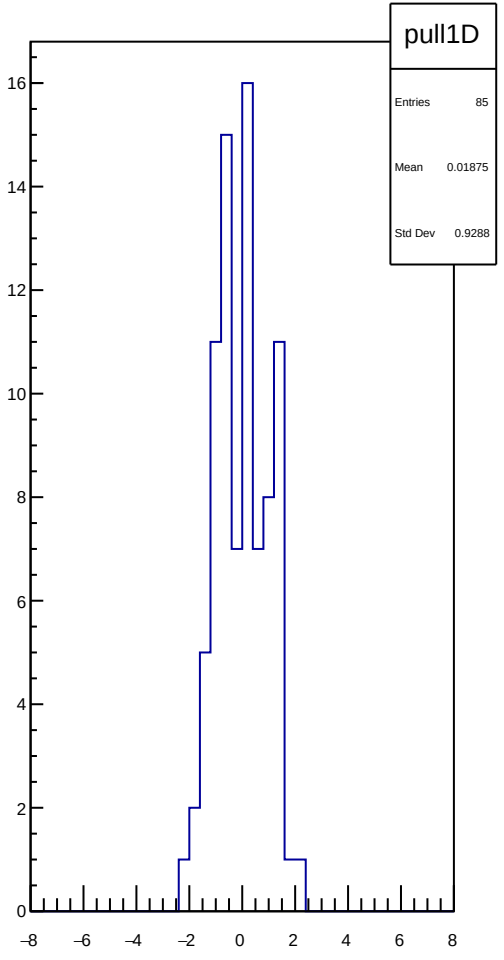

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.352e+05 / 84
p0 7.41e−11 ± 6.546e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

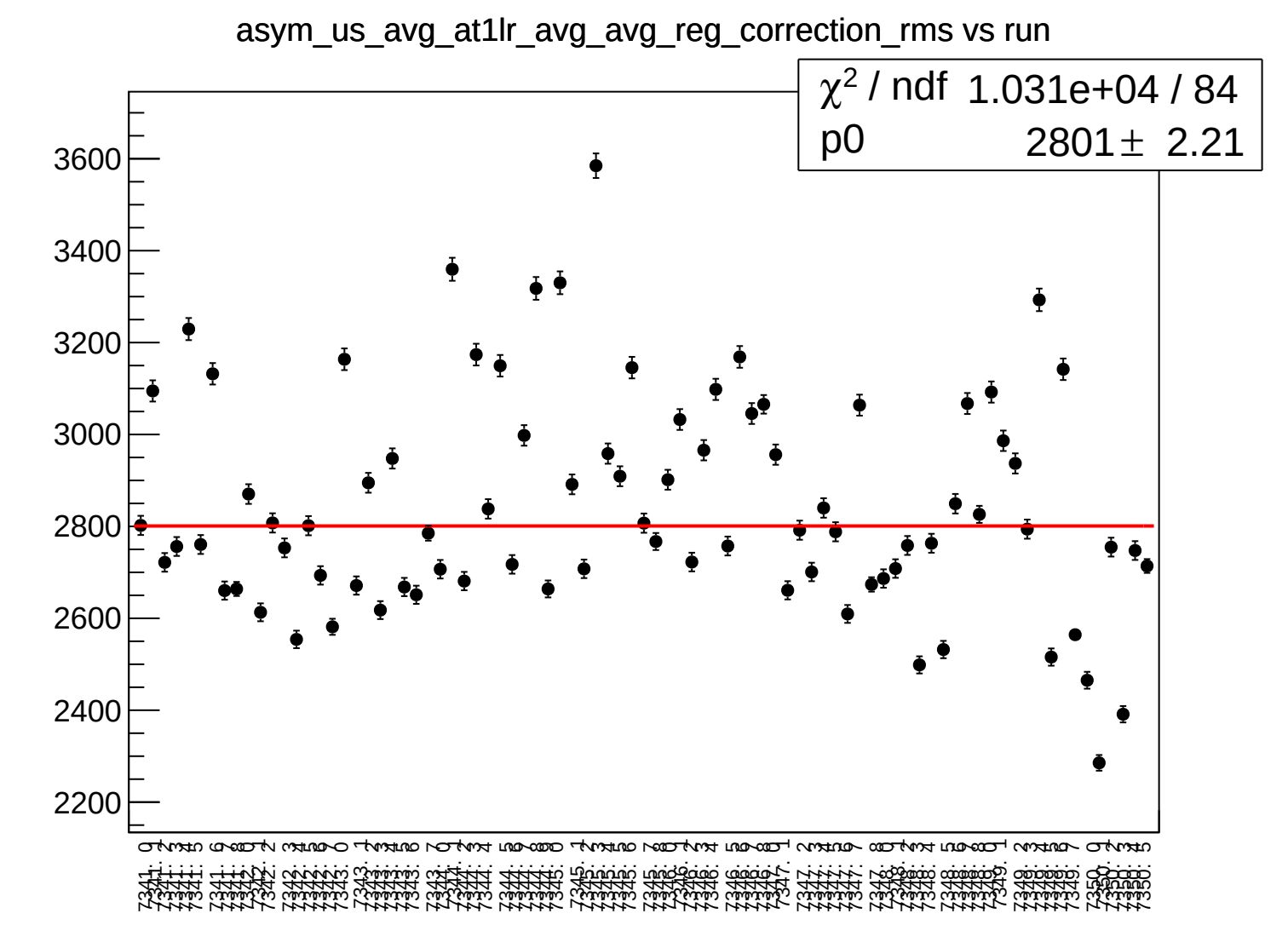

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 80.49 / 84
p0 5070 ± 2439
pull
Entries 85
Mean −103.7
Std Dev 0

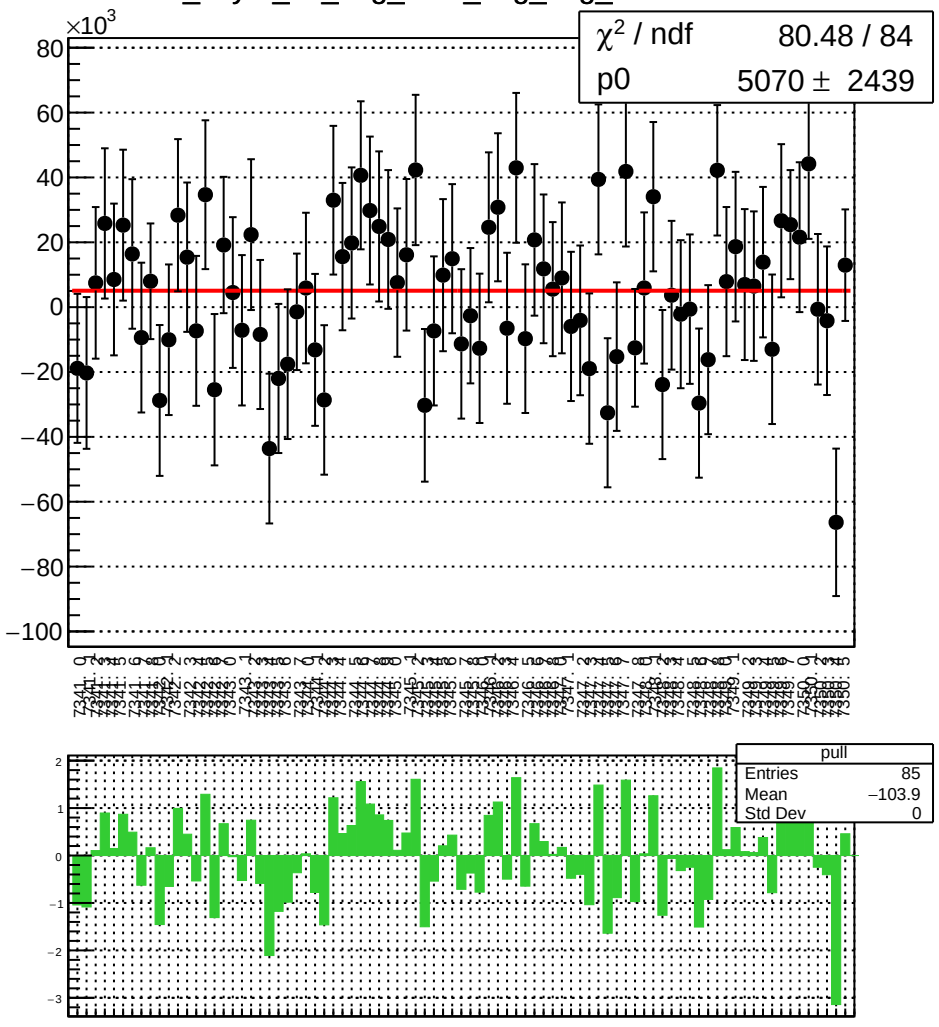

pull1D
Entries 85
Mean −0.007139
Std Dev 0.9731

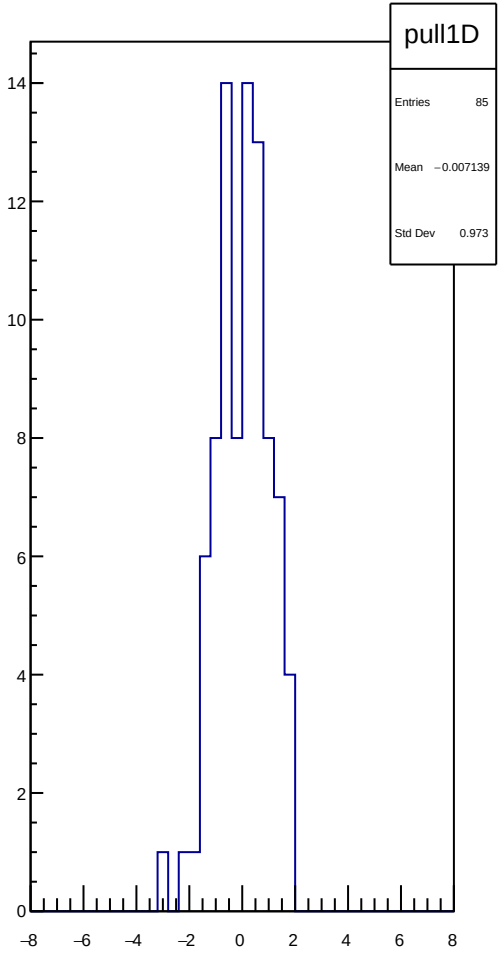

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 96.57 / 84
p0 2192 ± 1.724
2260
2240
2220
2200
2180
2160
2140

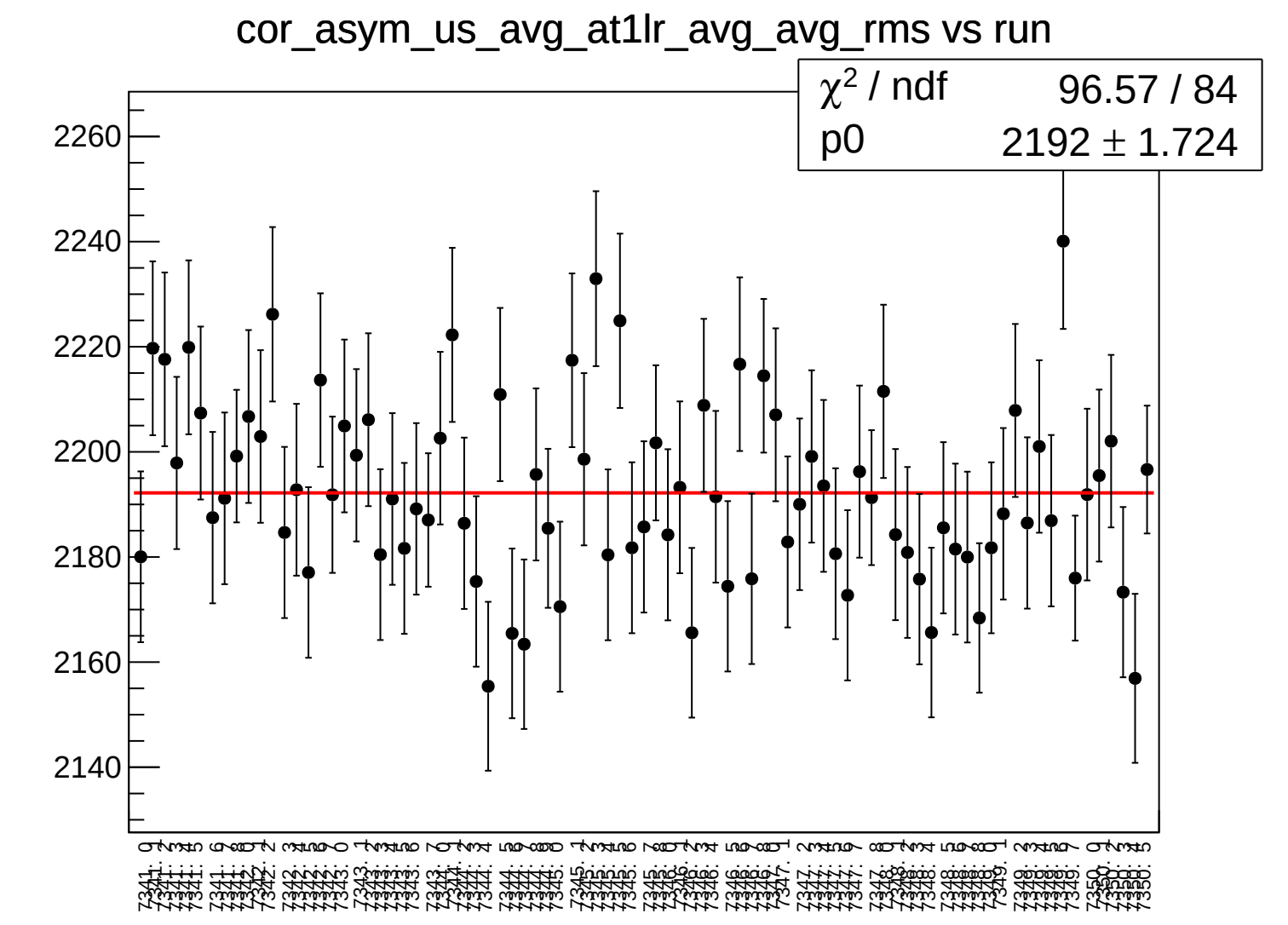

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 73.36 / 84
p0 −1606 ± 3126
pull
Entries 85
Mean −124.9
Std Dev 0

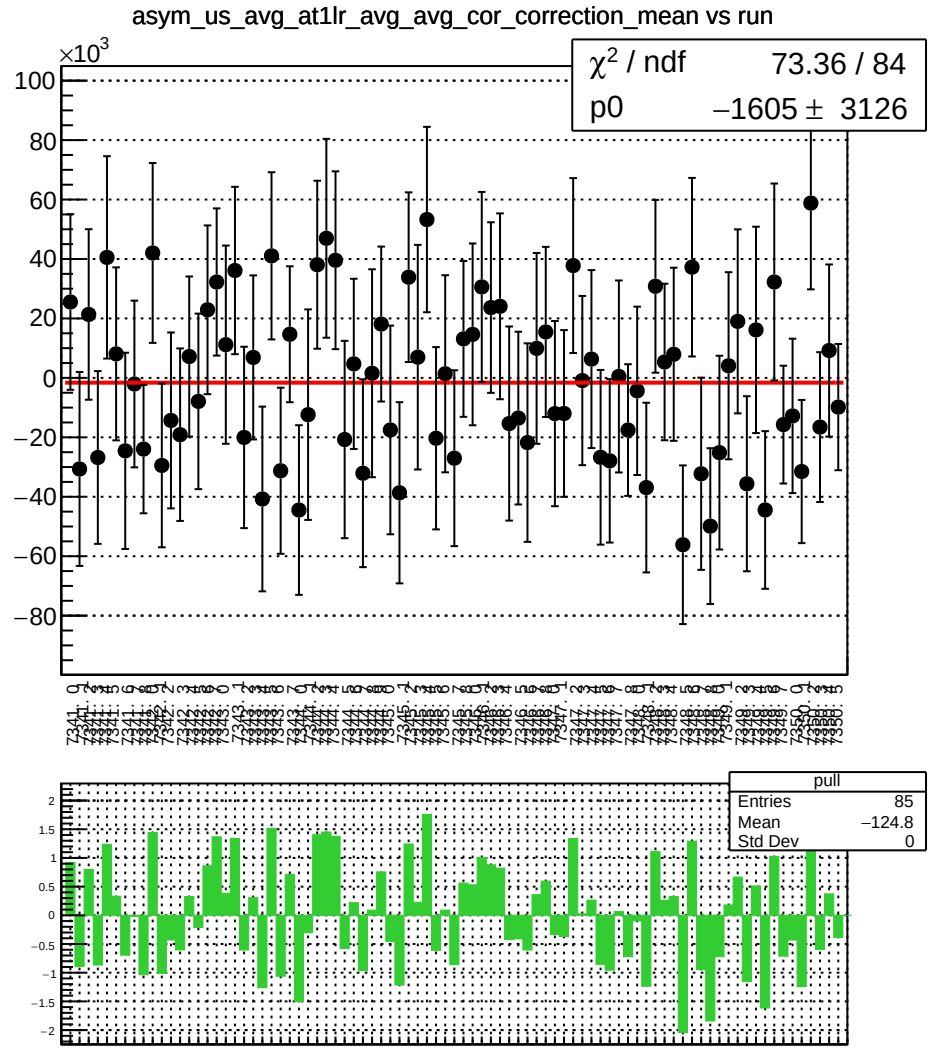

pull1D
Entries 85
Mean 0.01875
Std Dev 0.9288

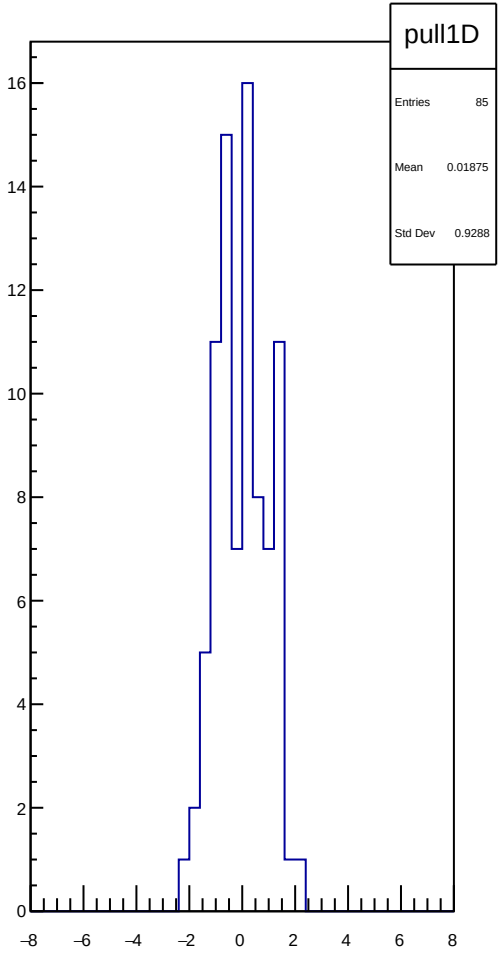

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.031e+04 / 84
p0 2801 ± 2.21
3600
3400
3200
3000
2800
2600
2400
2200

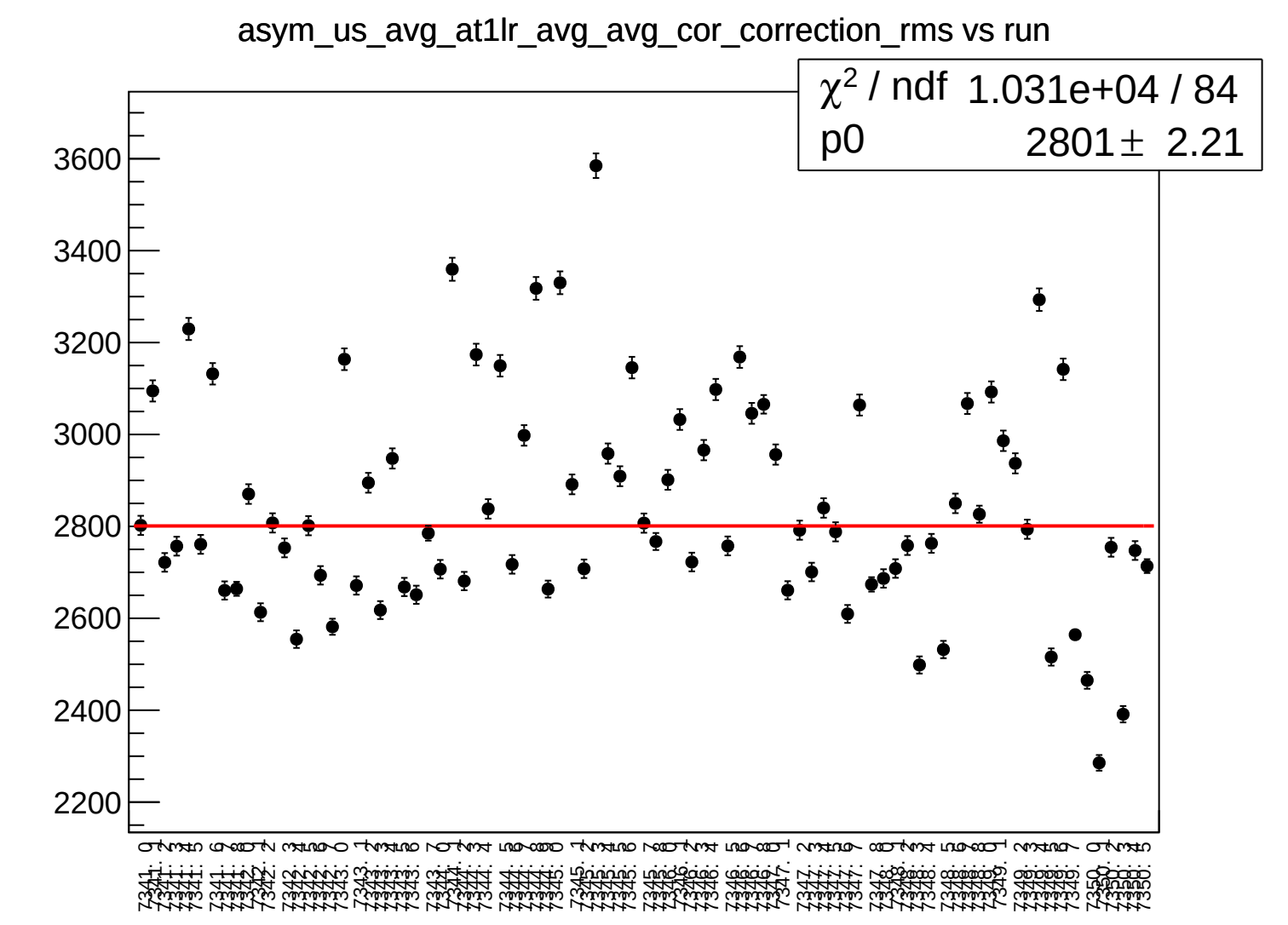

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 80.48 / 84
p0 5070 ± 2439
pull
Entries 85
Mean −103.9
Std Dev 0

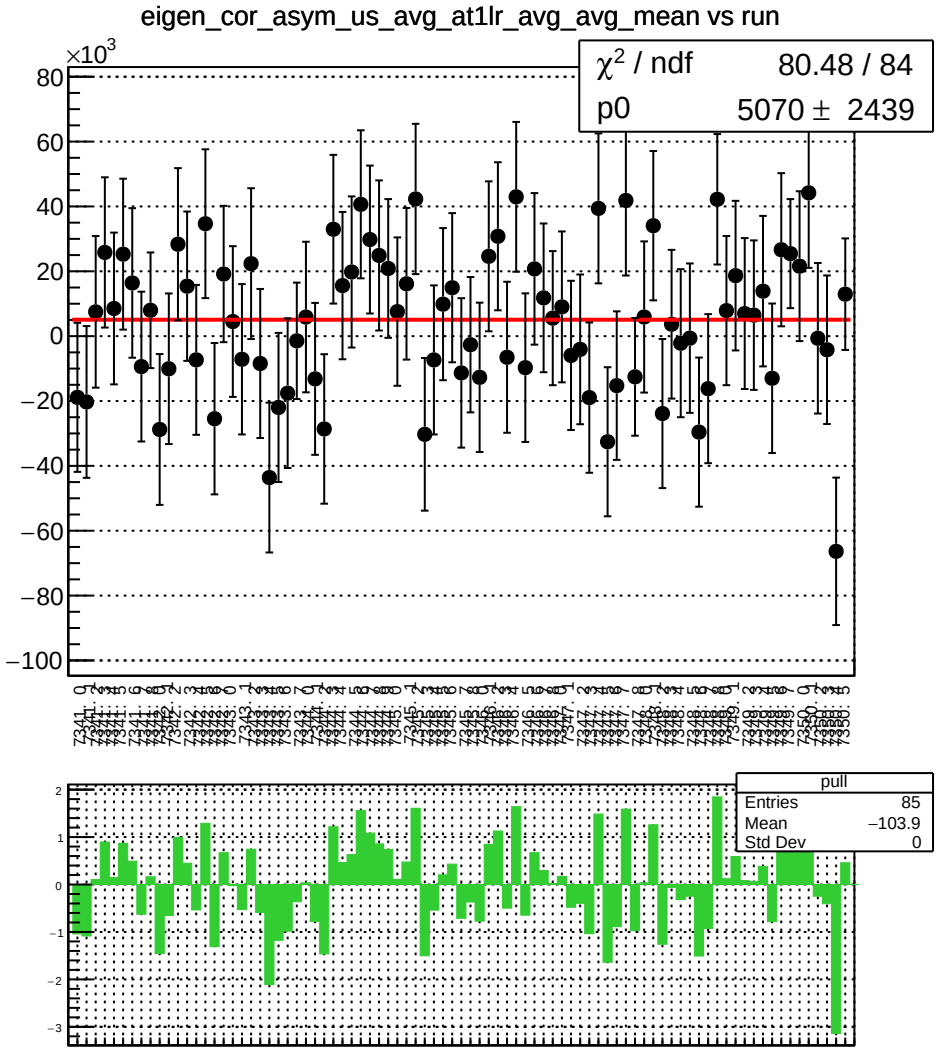

pull1D
Entries 85
Mean −0.007139
Std Dev 0.973

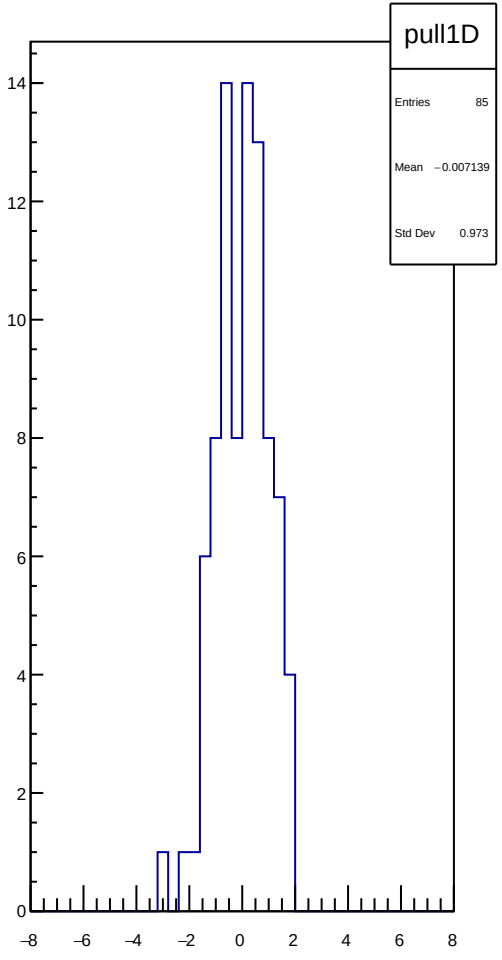

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 96.57 / 84
p0 2192 ± 1.724
2260
2240
2220
2200
2180
2160
2140

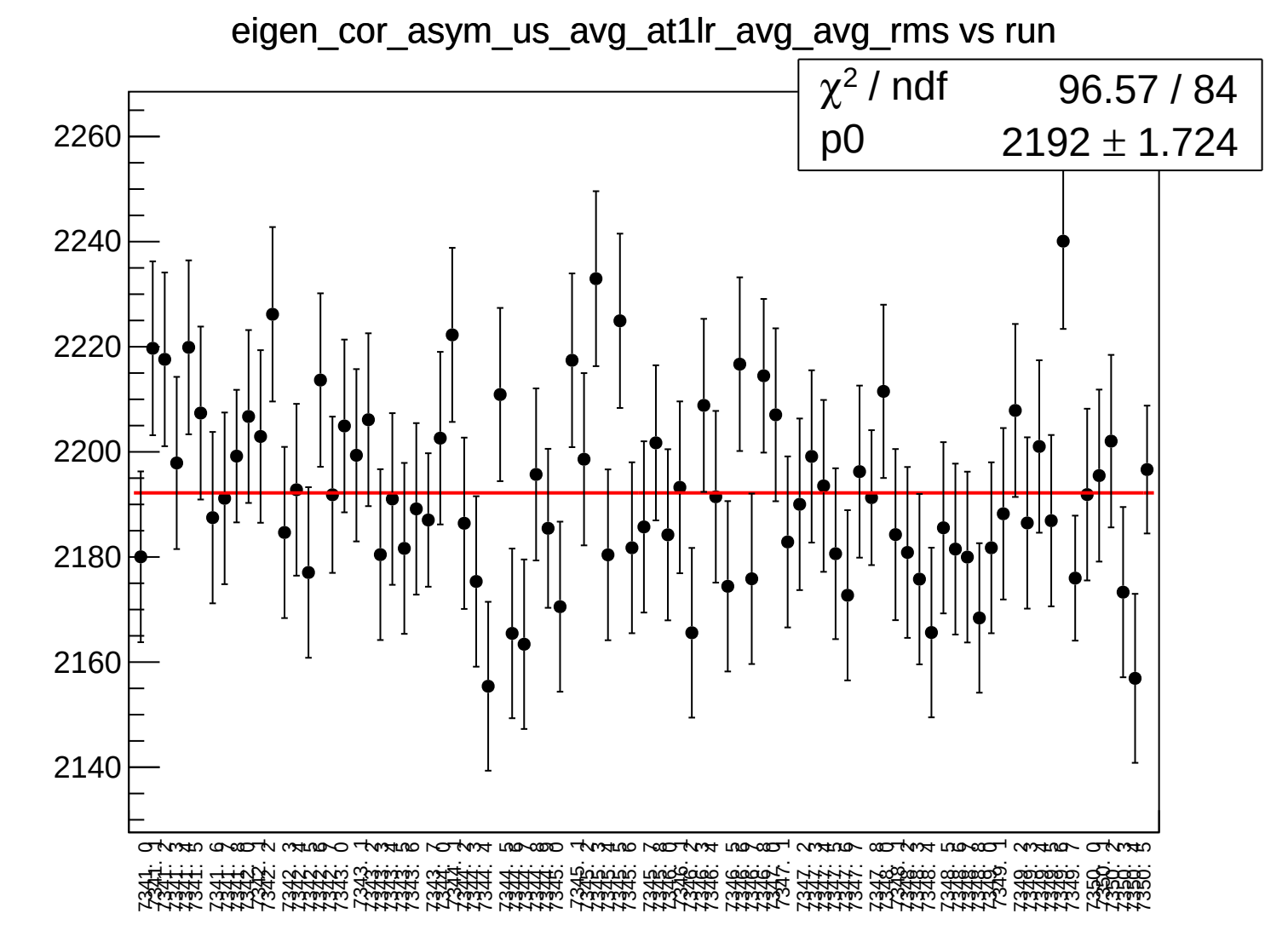

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 73.36 / 84
p0 −1605 ± 3126
pull
Entries 85
Mean −124.8
Std Dev 0

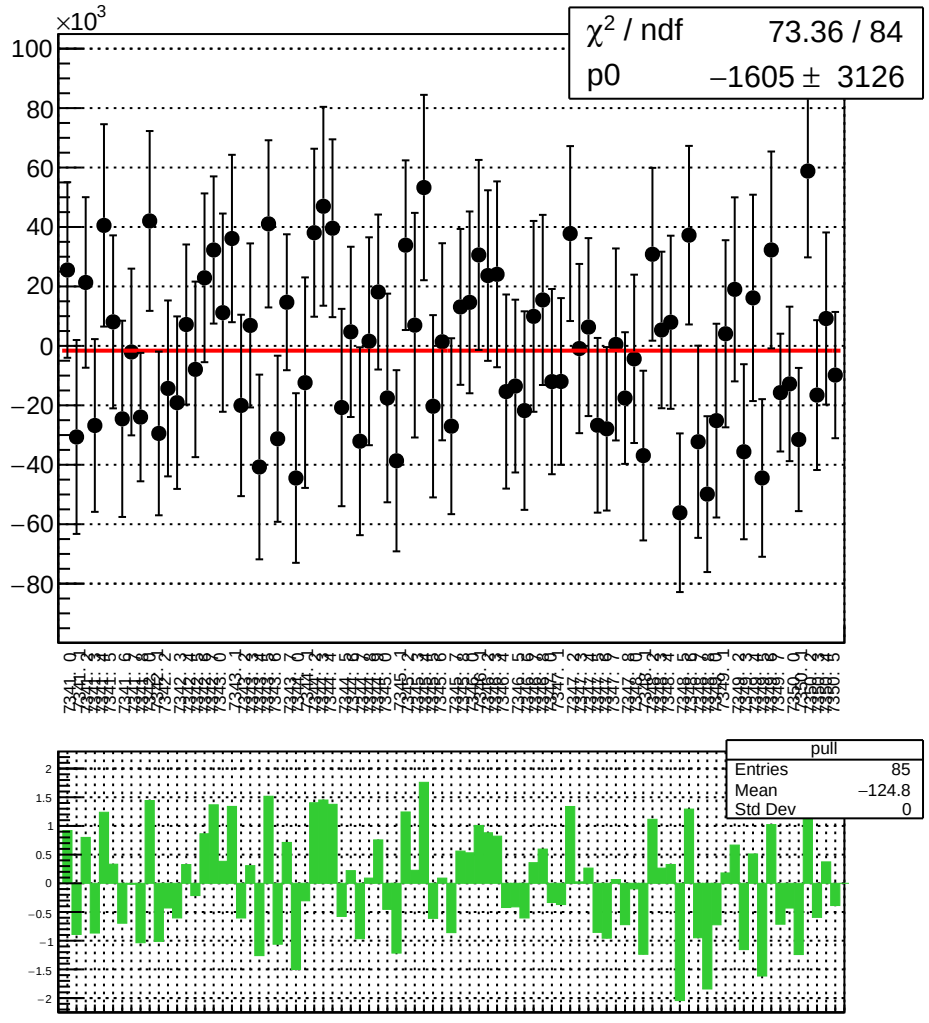

pull1D
Entries 85
Mean 0.01875
Std Dev 0.9288

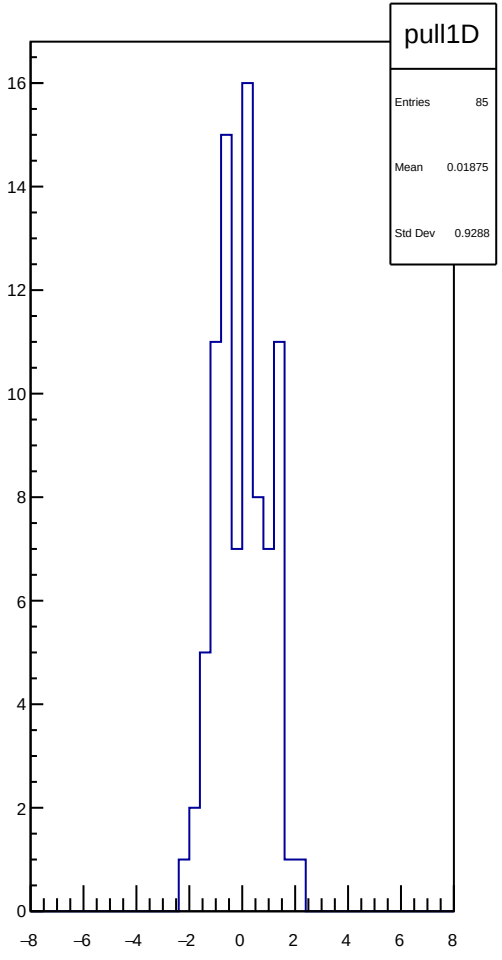

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.031e+04 / 84
p0 2801 ± 2.21
3600
3400
3200
3000
2800
2600
2400
2200

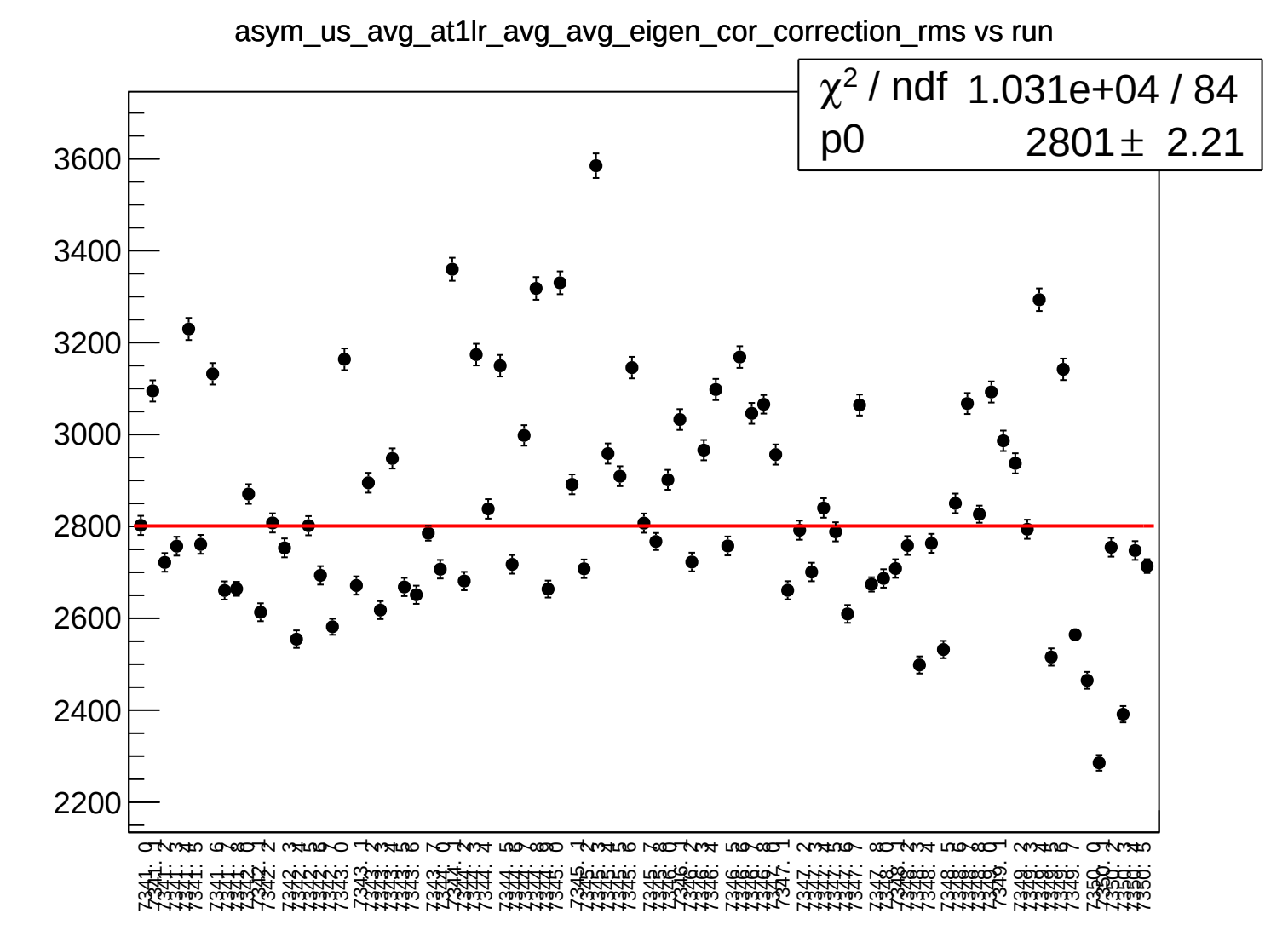

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 80.48 / 84
p0 5070 ± 2439
pull
Entries 85
Mean −103.9
Std Dev 0

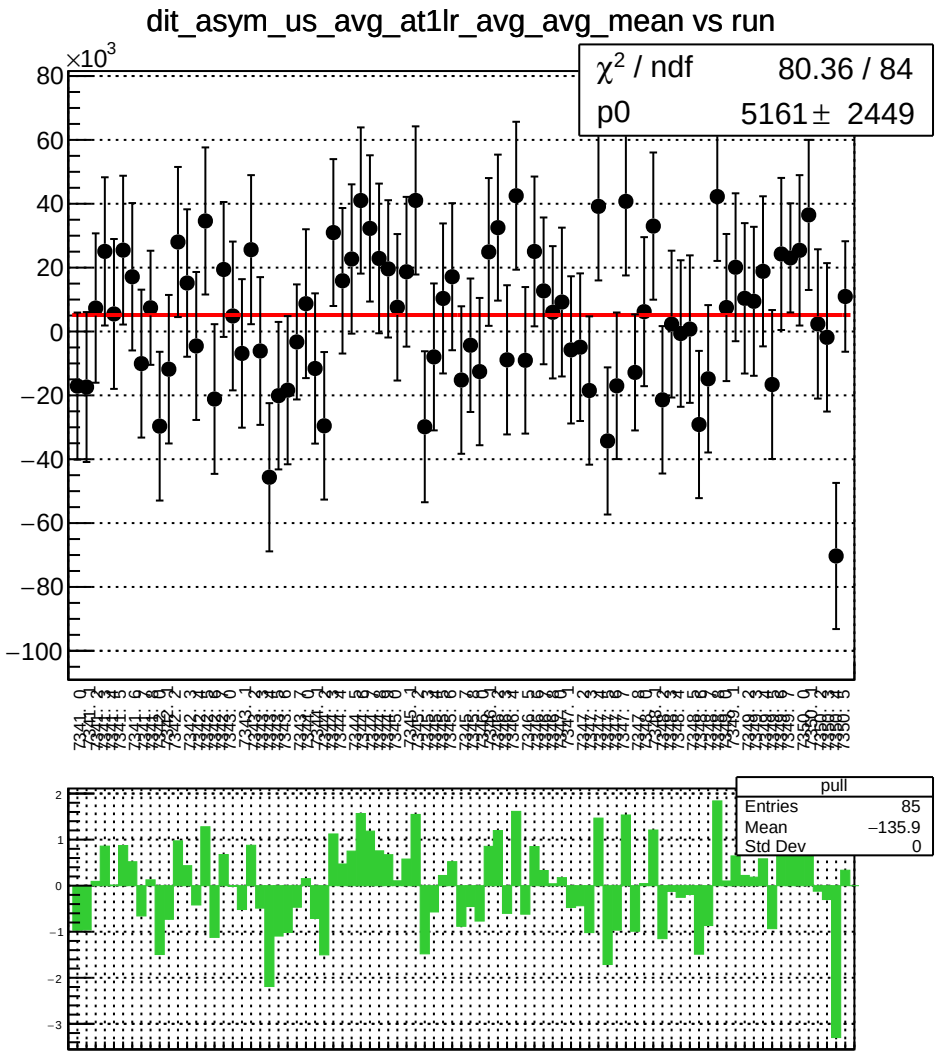

pull1D
Entries 85
Mean −0.007139
Std Dev 0.973

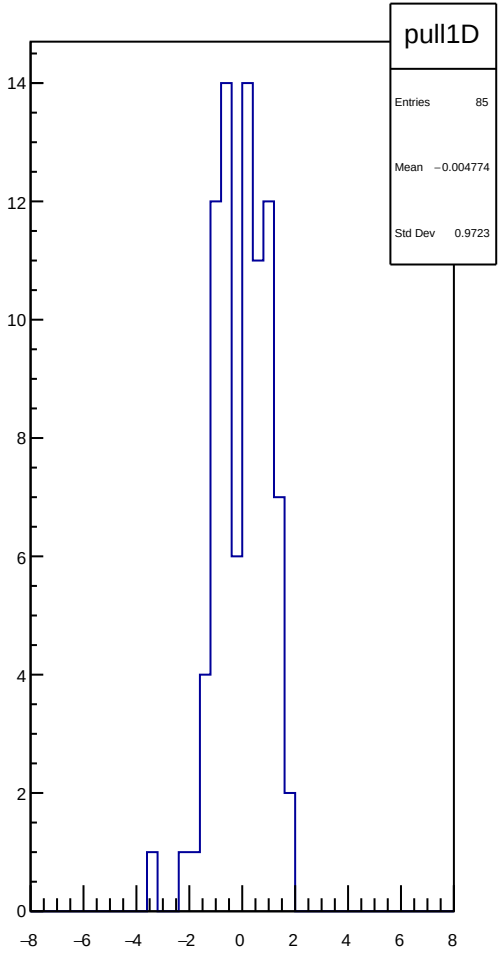

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 96.57 / 84
p0 2192 ± 1.724
2260
2240
2220
2200
2180
2160
2140

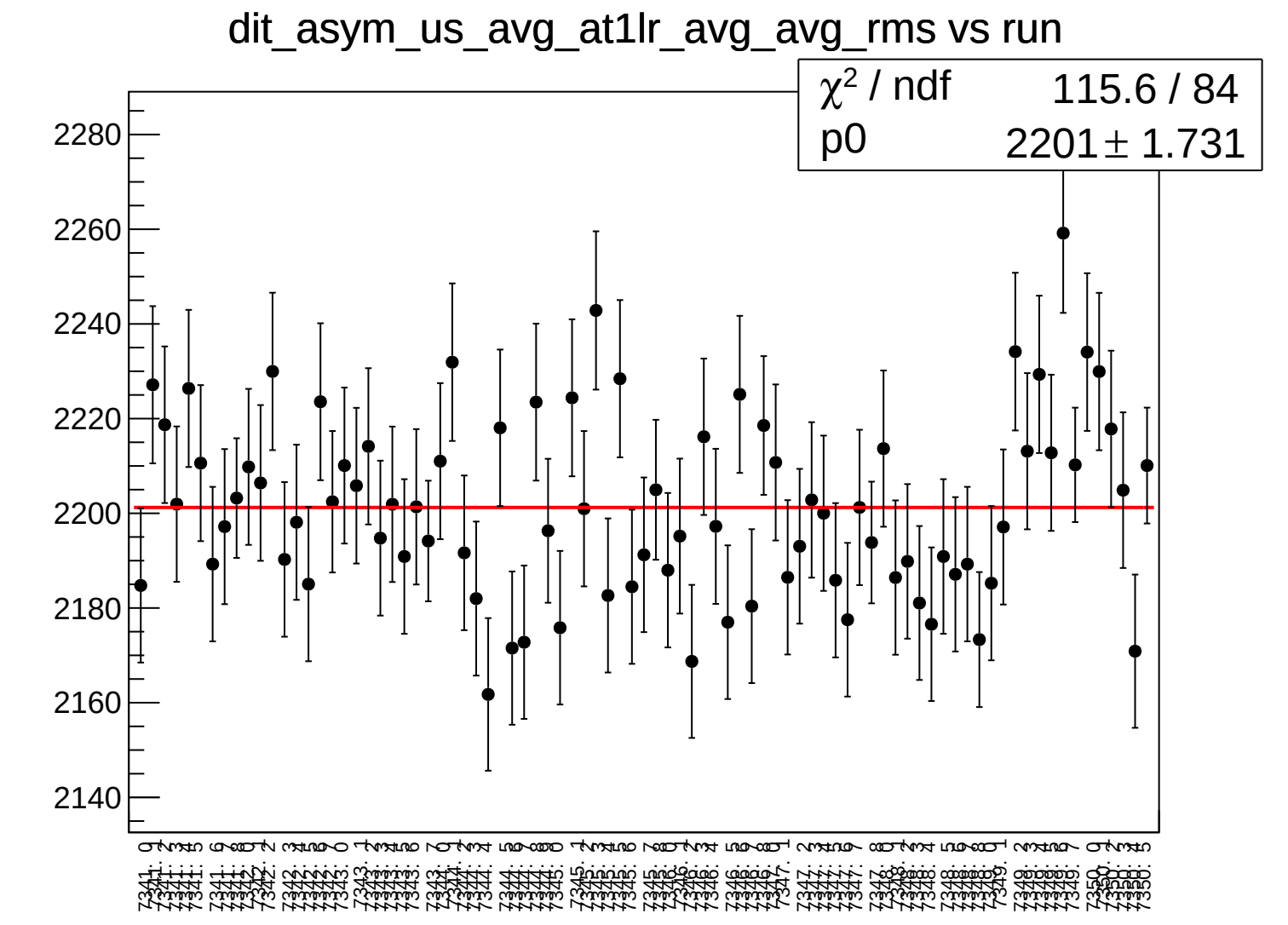

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 73.36 / 84
p0 −1605 ± 3126
pull
Entries 85
Mean −124.8
Std Dev 0

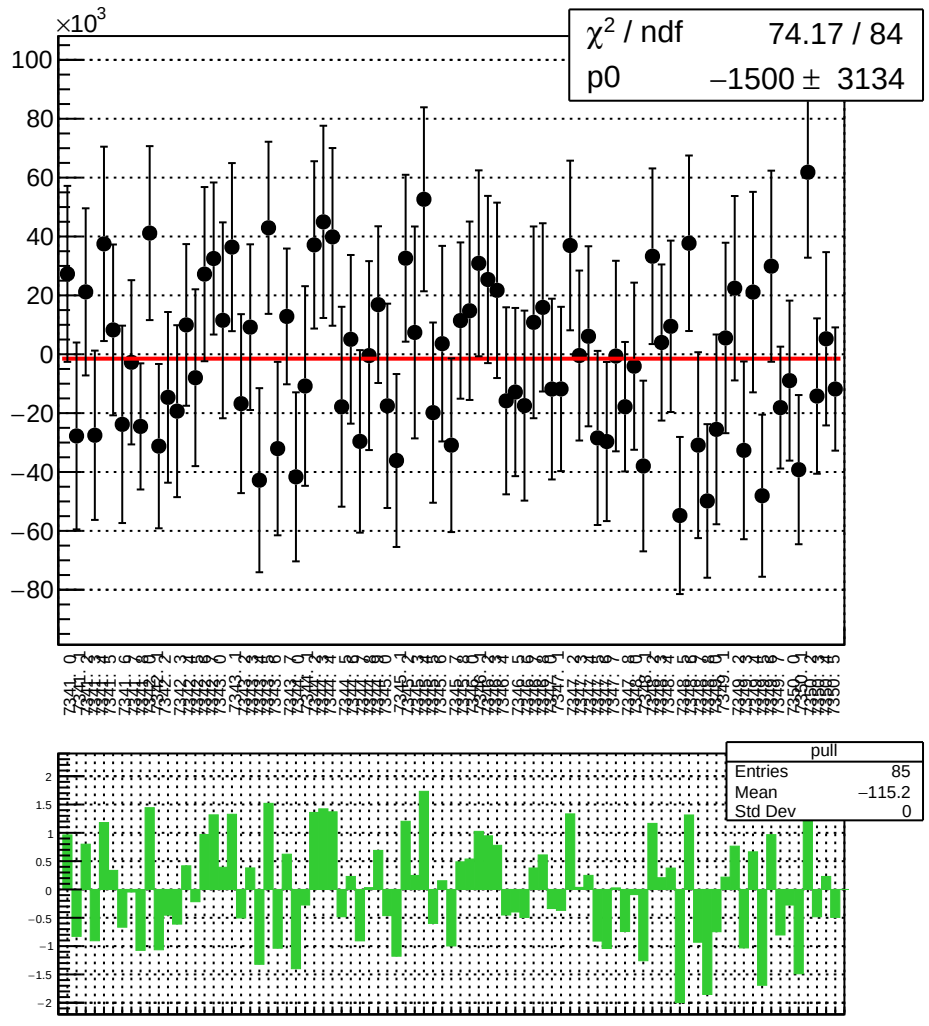

pull1D
Entries 85
Mean 0.01875
Std Dev 0.9288

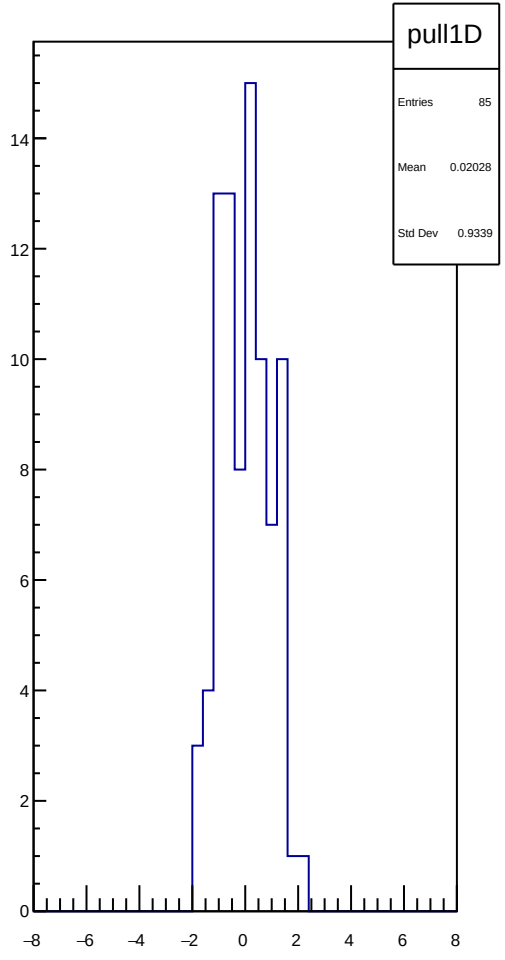

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.031e+04 / 84
p0 2801 ± 2.21
3600
3400
3200
3000
2800
2600
2400
2200

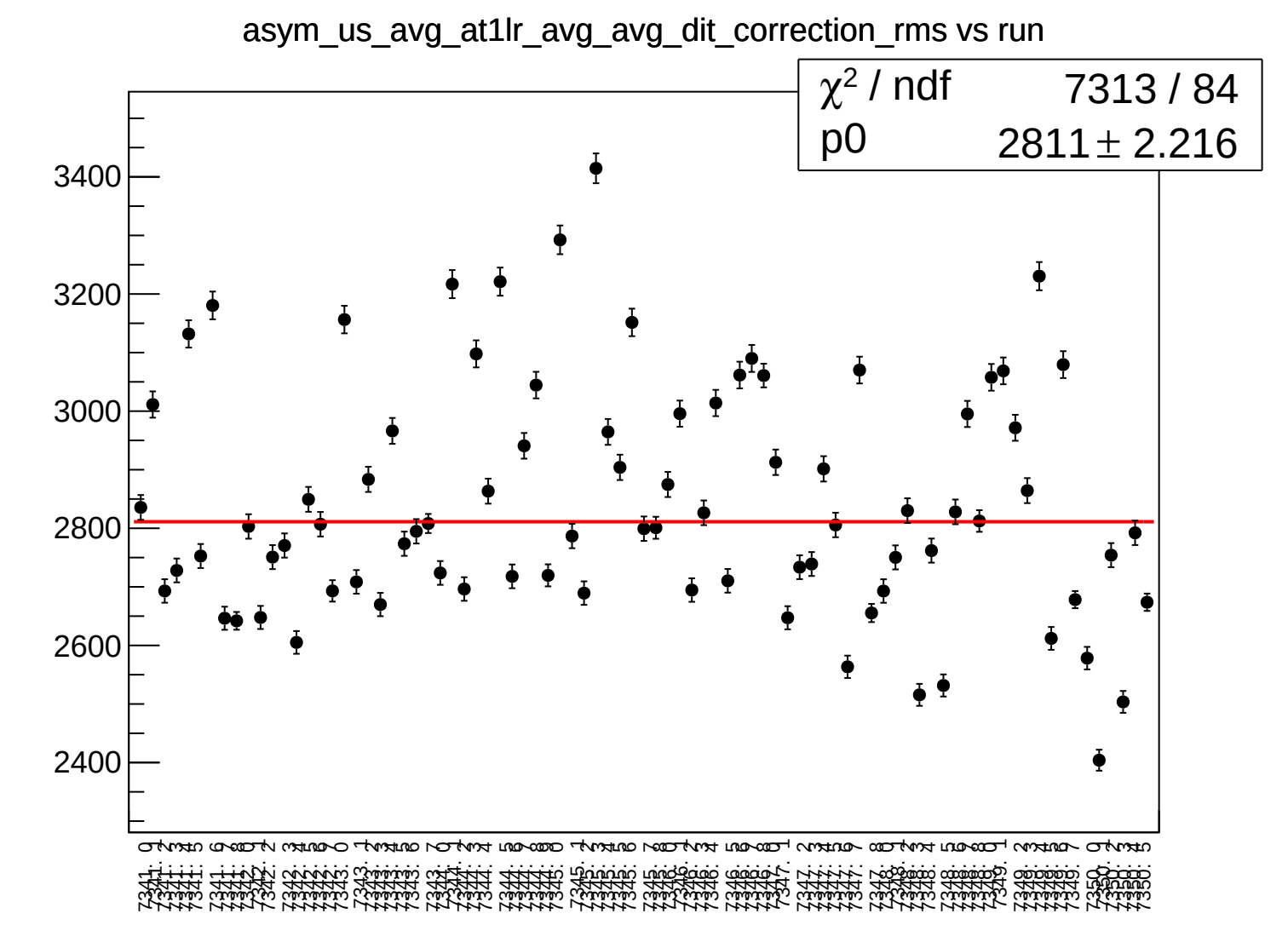

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 80.36 / 84
p0 5161 ± 2449
pull
Entries 85
Mean −135.9
Std Dev 0

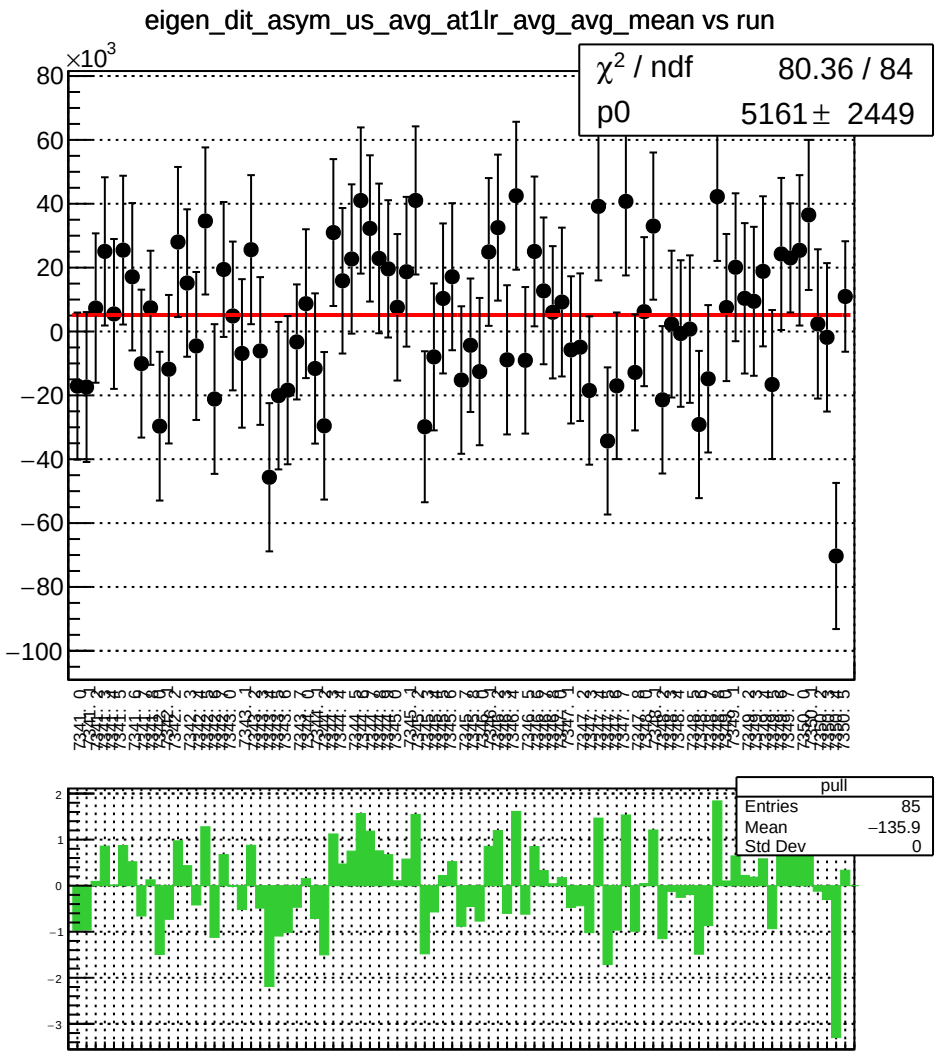

pull1D
Entries 85
Mean −0.004774
Std Dev 0.9723

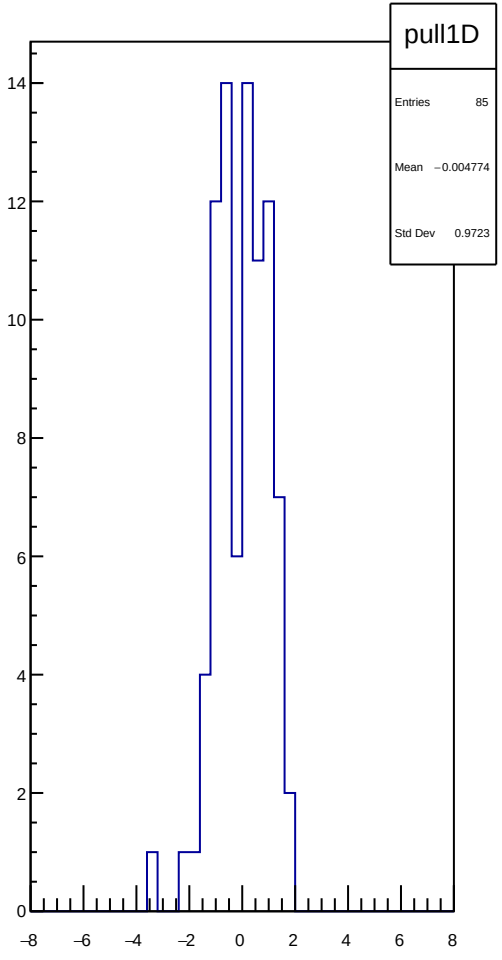

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 115.6 / 84
p0 2201 ± 1.731
2280
2260
2240
2220
2200
2180
2160
2140

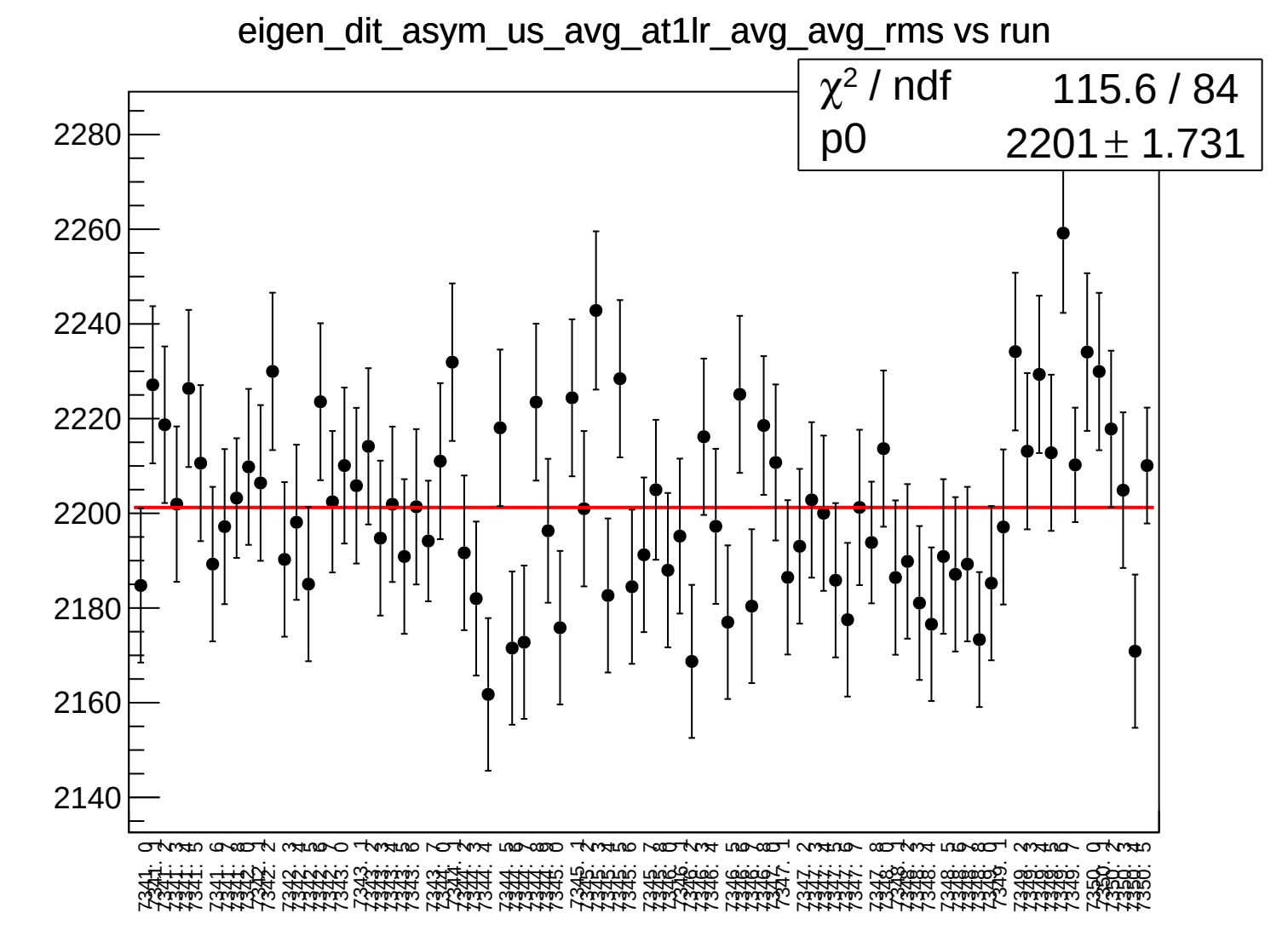

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 74.17 / 84
p0 −1500 ± 3134
pull
Entries 85
Mean −115.2
Std Dev 0

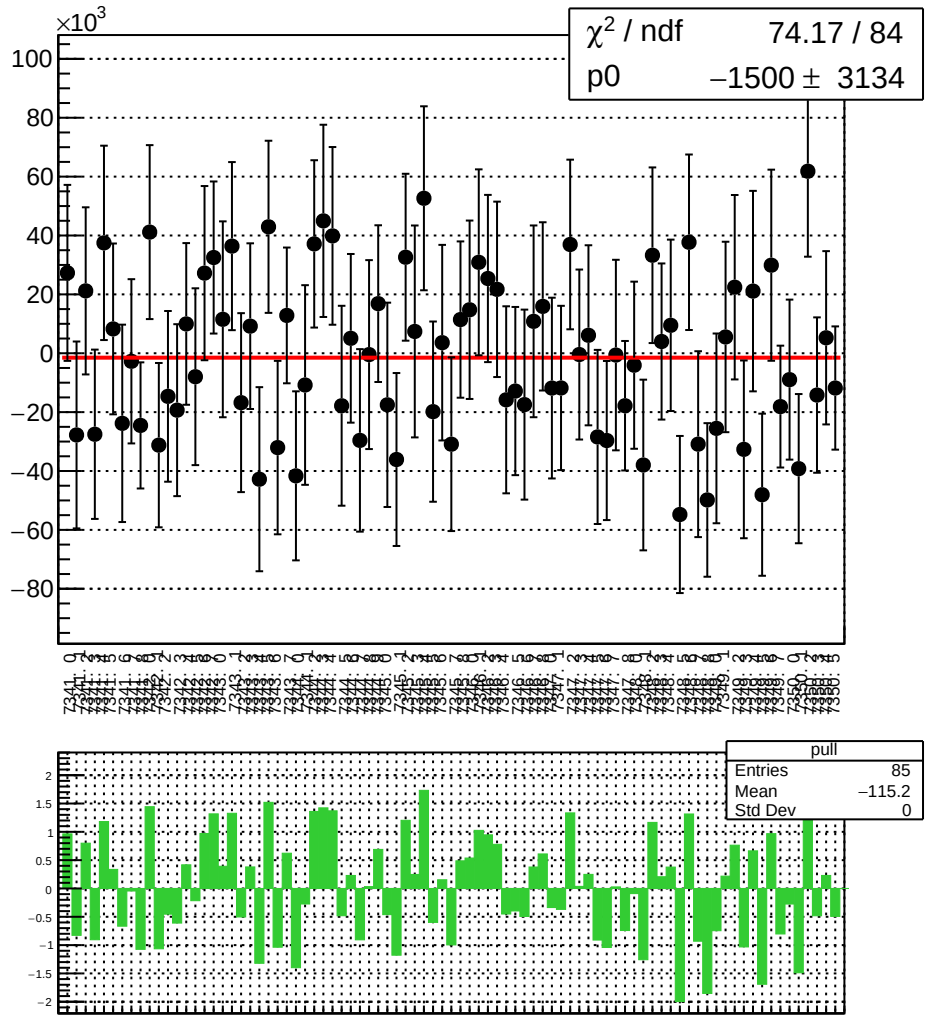

pull1D
Entries 85
Mean 0.02028
Std Dev 0.9339

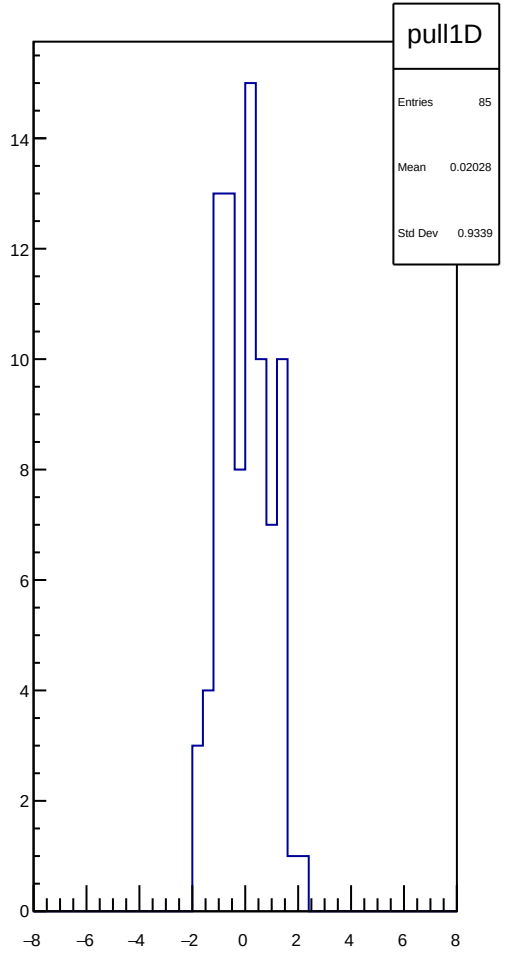

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 7313 / 84
p0 2811 ± 2.216
3400
3200
3000
2800
2600
2400

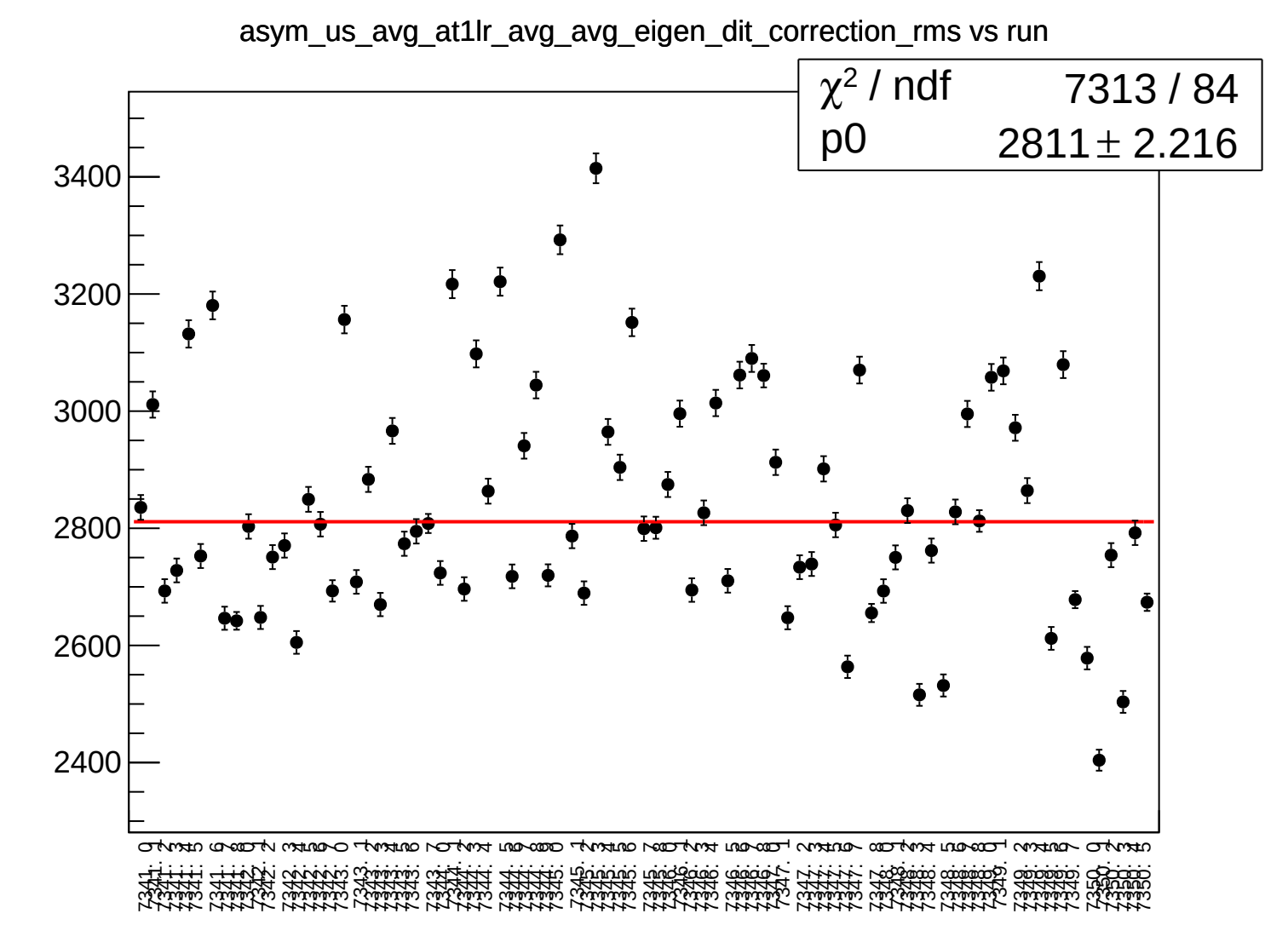

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 80.36 / 84
p0 5161 ± 2449
pull
Entries 85
Mean −135.9
Std Dev 0

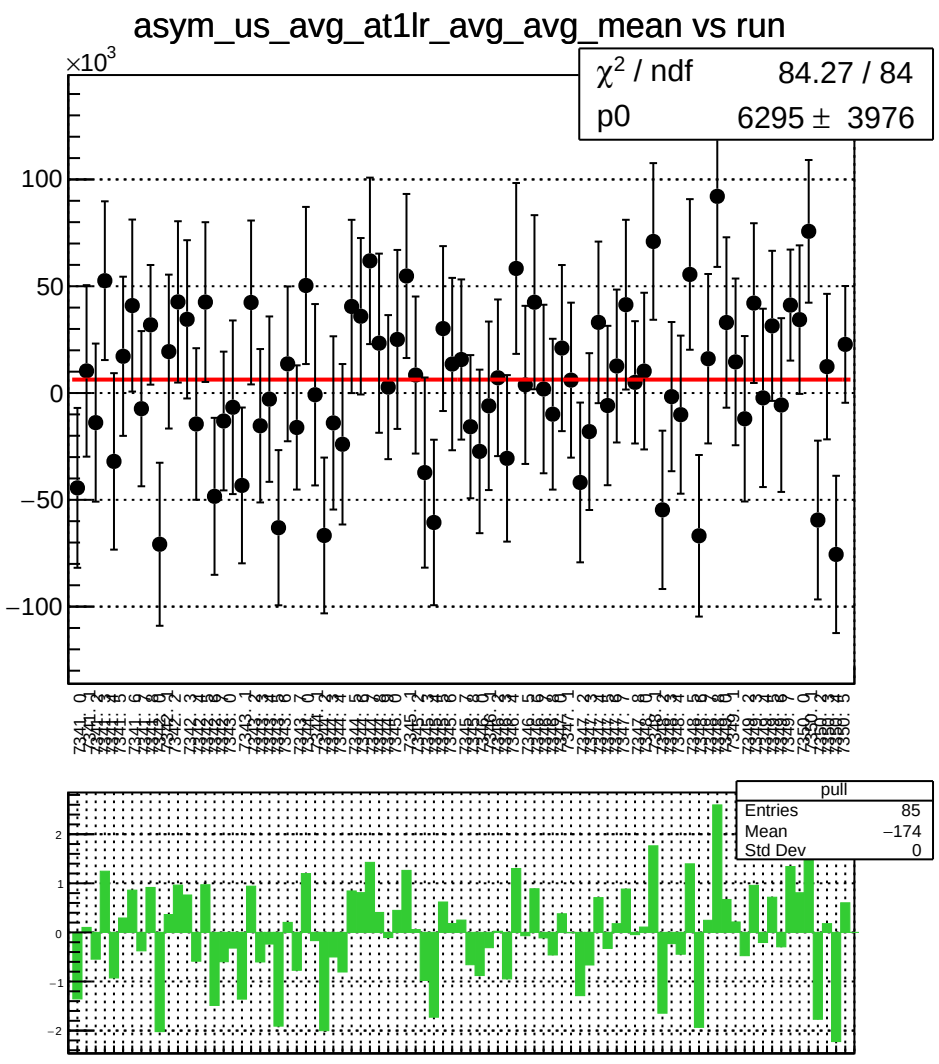

pull1D
Entries 85
Mean −0.004774
Std Dev 0.9723

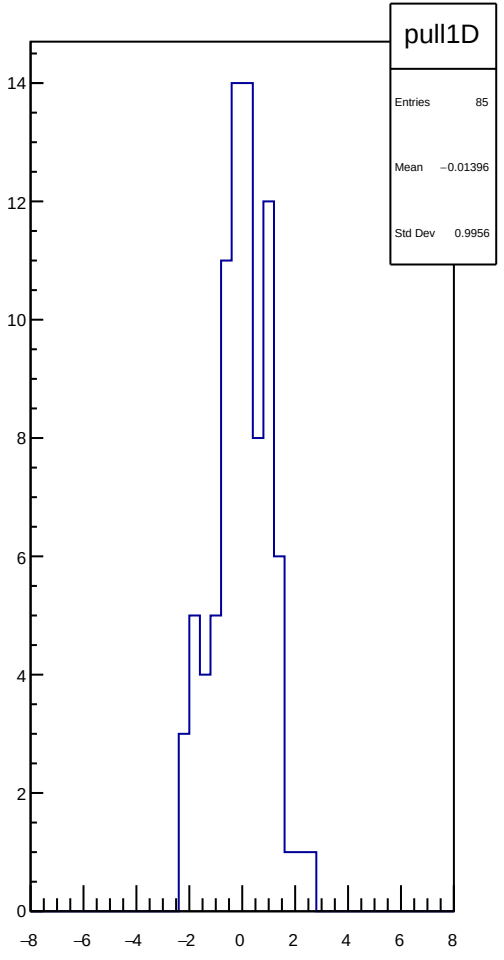

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 115.6 / 84
p0 2201 ± 1.731
2280
2260
2240
2220
2200
2180
2160
2140

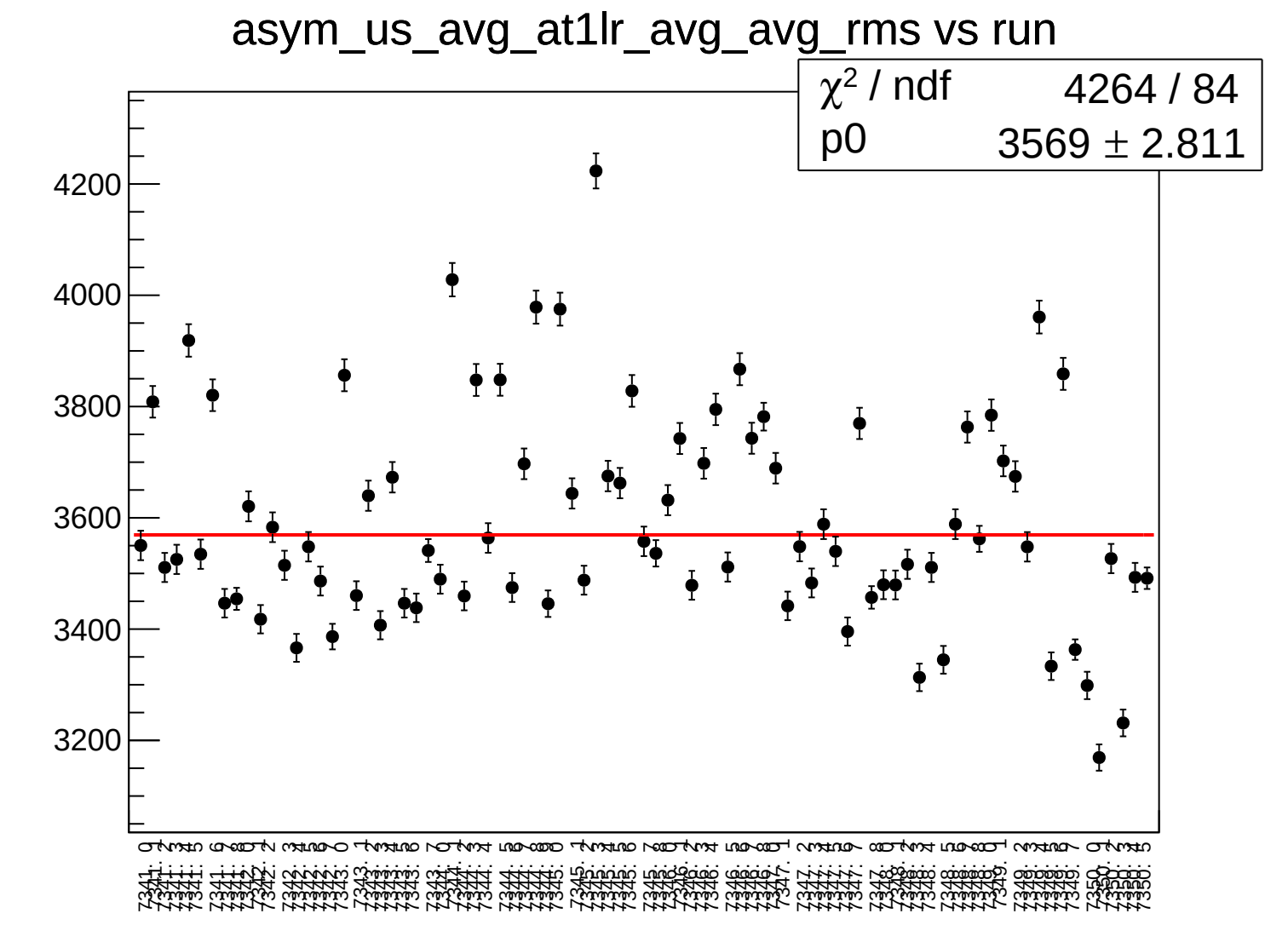

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.17 / 84
p0 −1500 ± 3134
pull
Entries 85
Mean −115.2
Std Dev 0

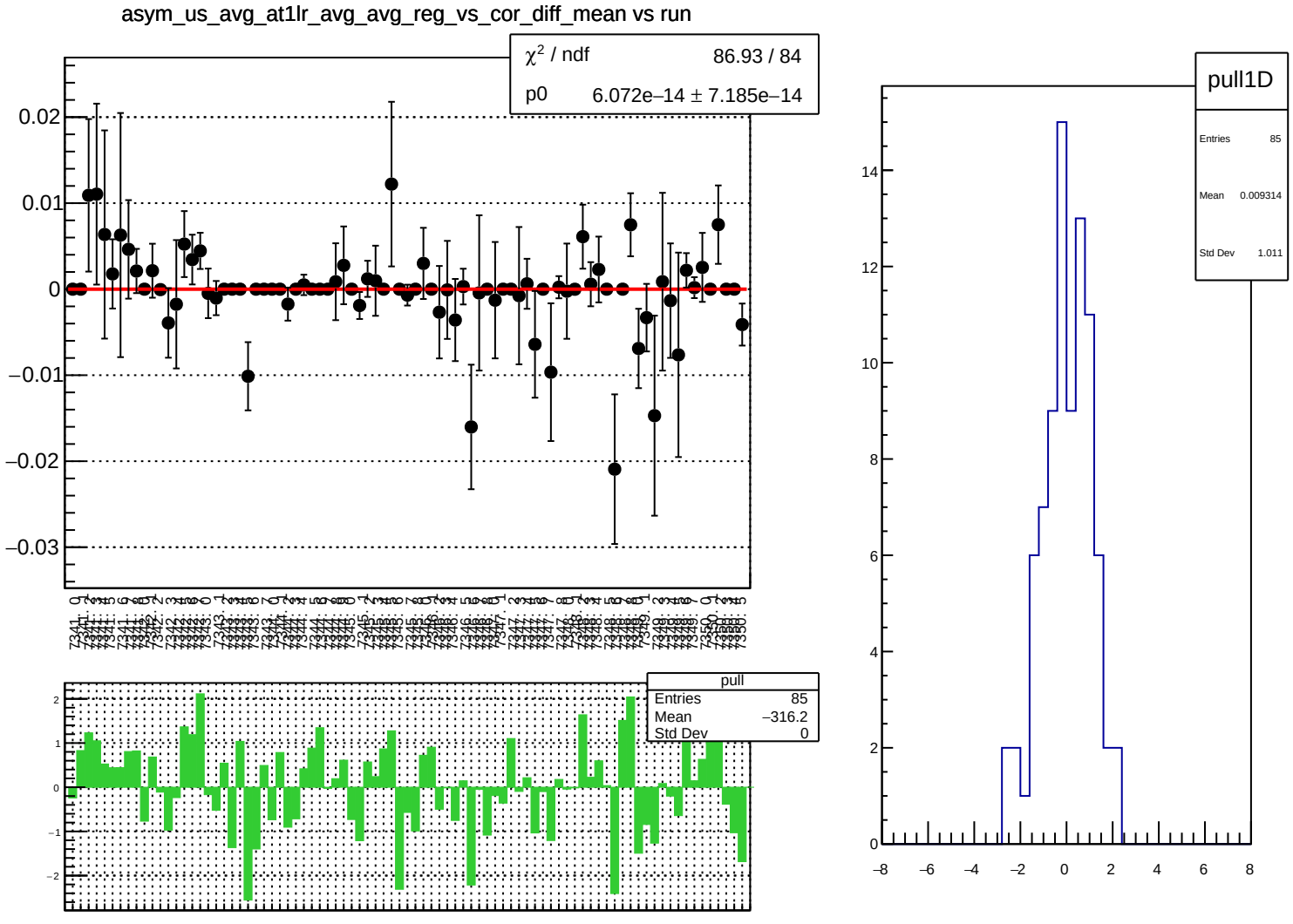

pull1D
Entries 85
Mean 0.02028
Std Dev 0.9339

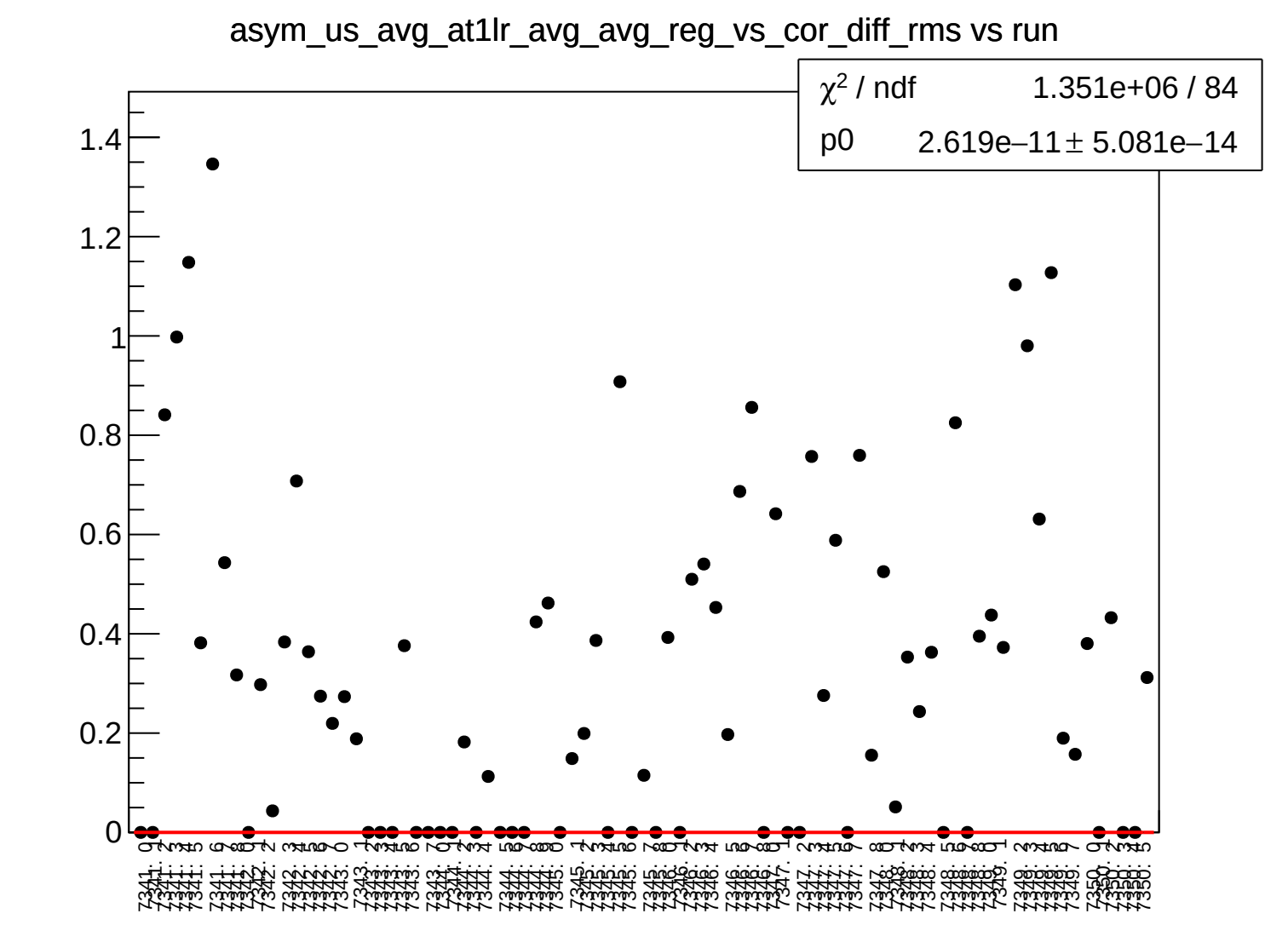

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7313 / 84
p0 2811 ± 2.216
3400
3200
3000
2800
2600
2400

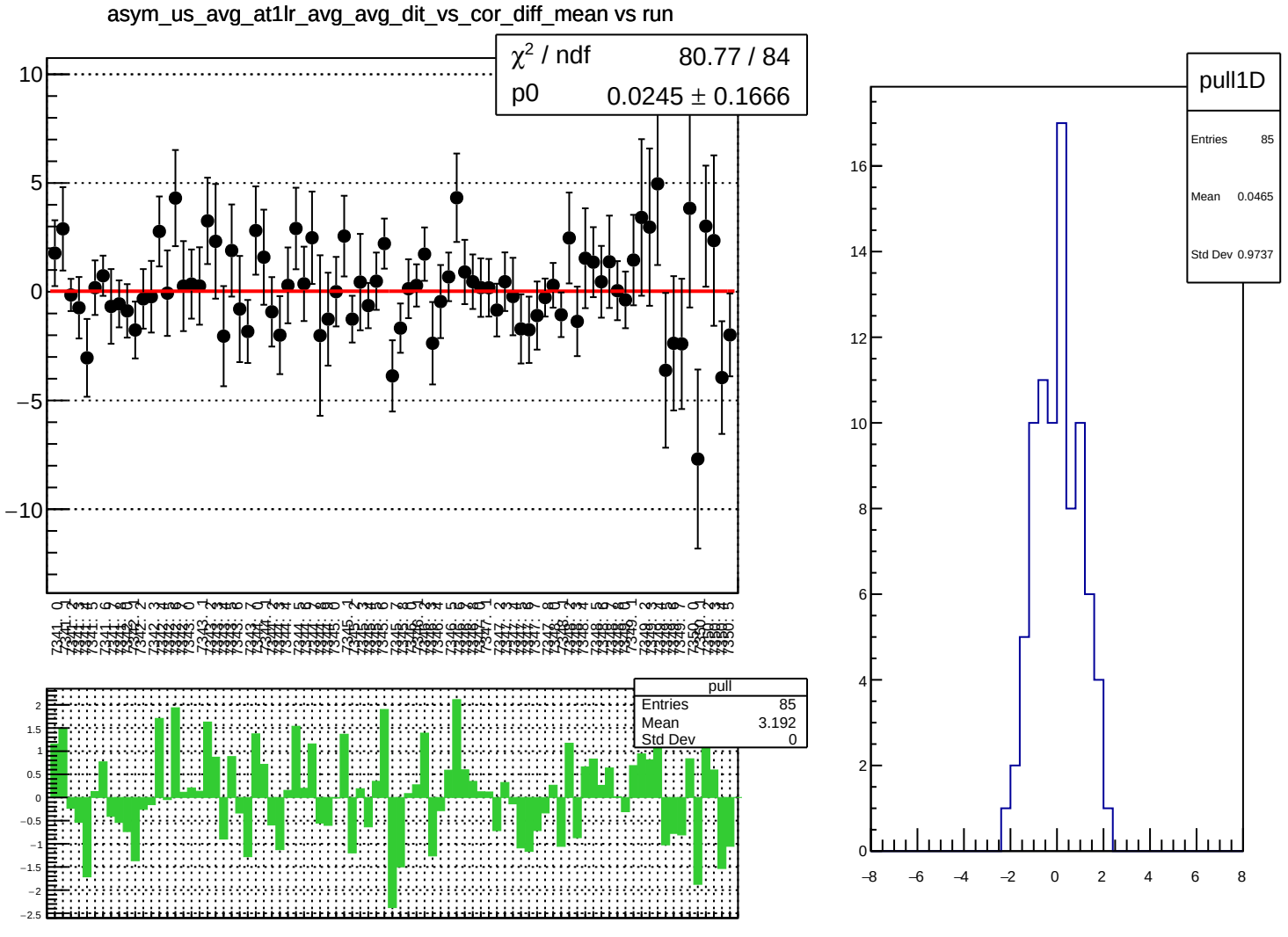

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 84.27 / 84
p0 6295 ± 3976
100
50
0
−50
−100
pull
Entries 85
Mean −174
Std Dev 0
2
1
0
−1
−2

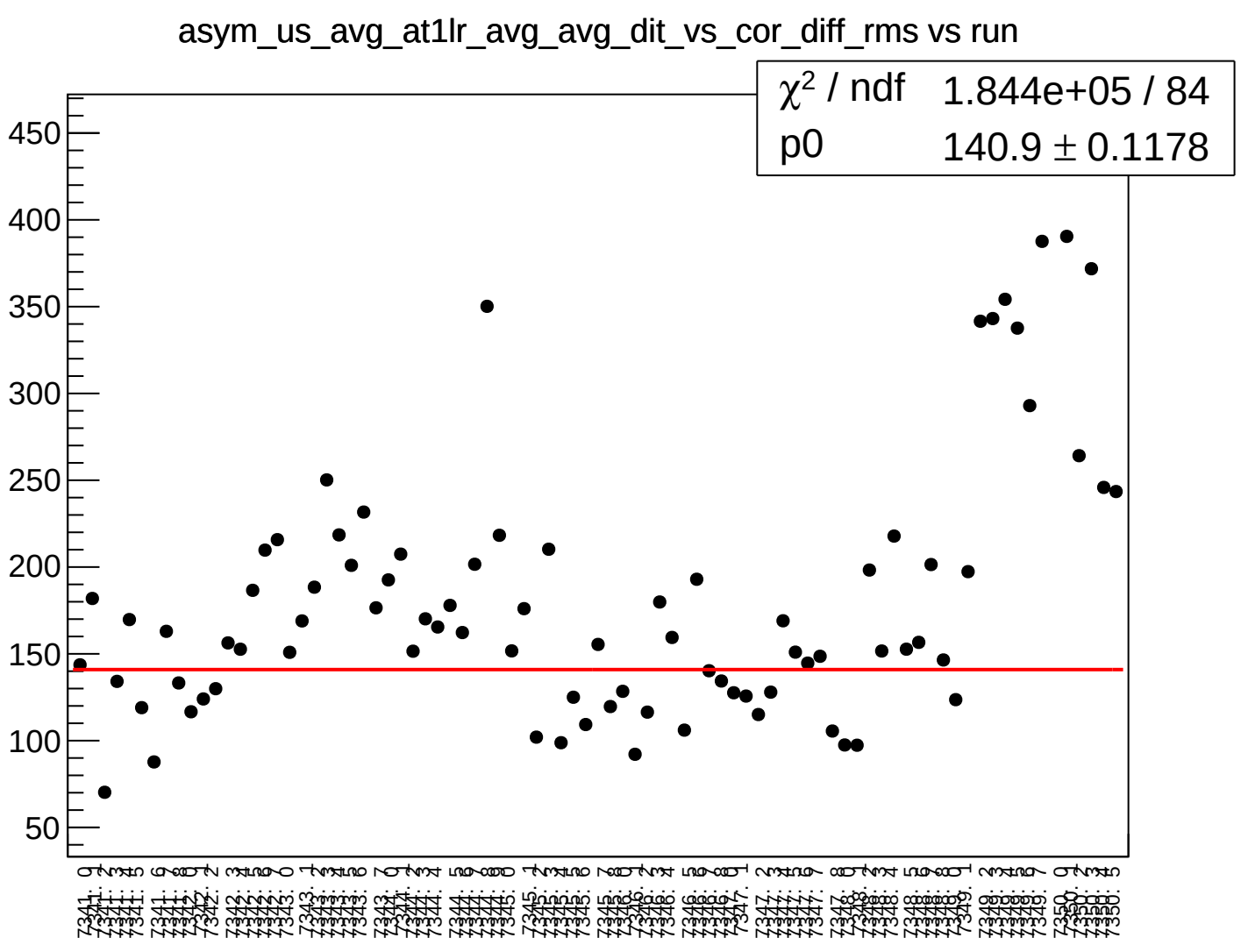

pull1D
Entries 85
Mean −0.01396
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

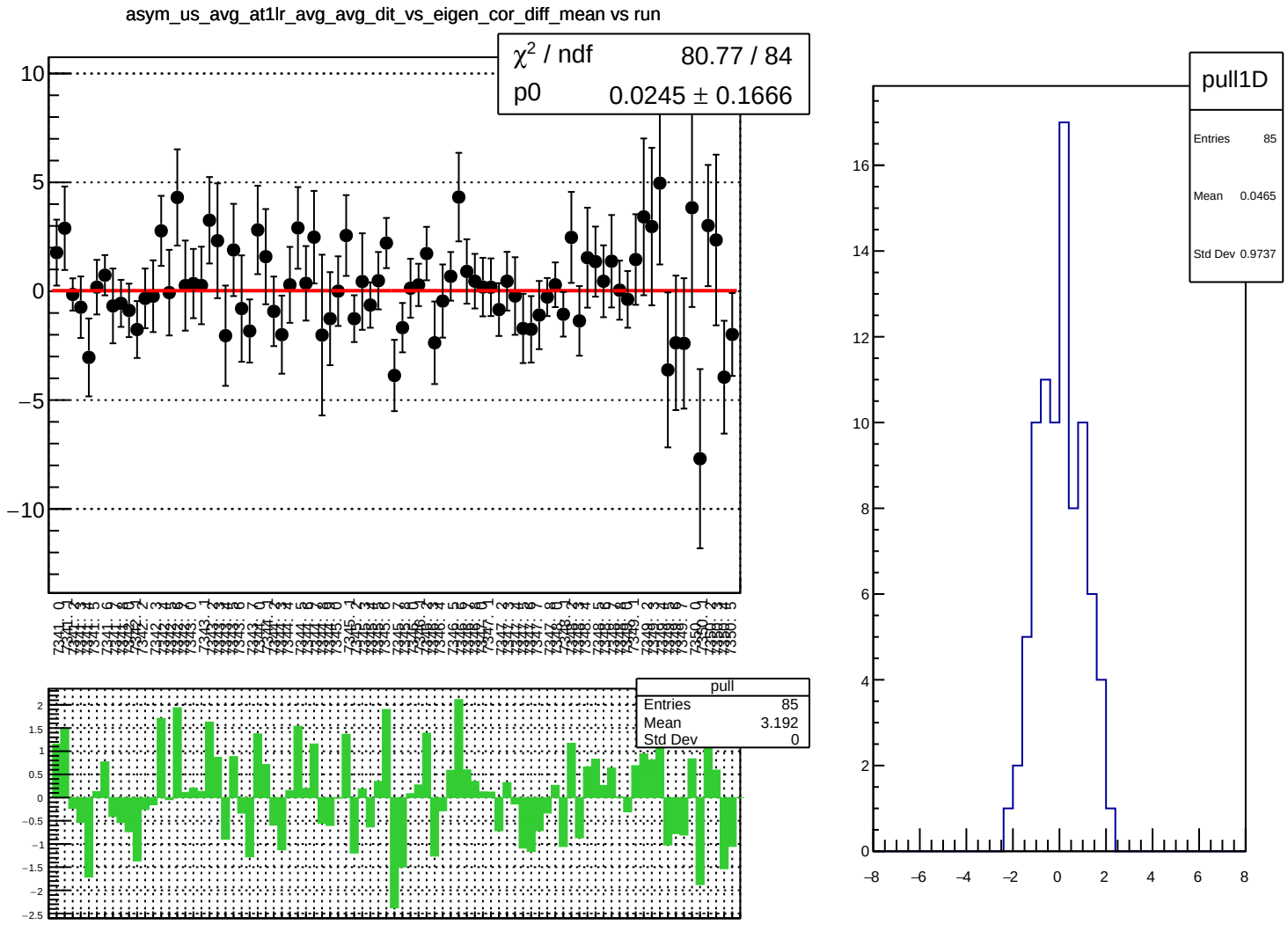

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 4264 / 84
p0 3569 ± 2.811
4200
4000
3800
3600
3400
3200

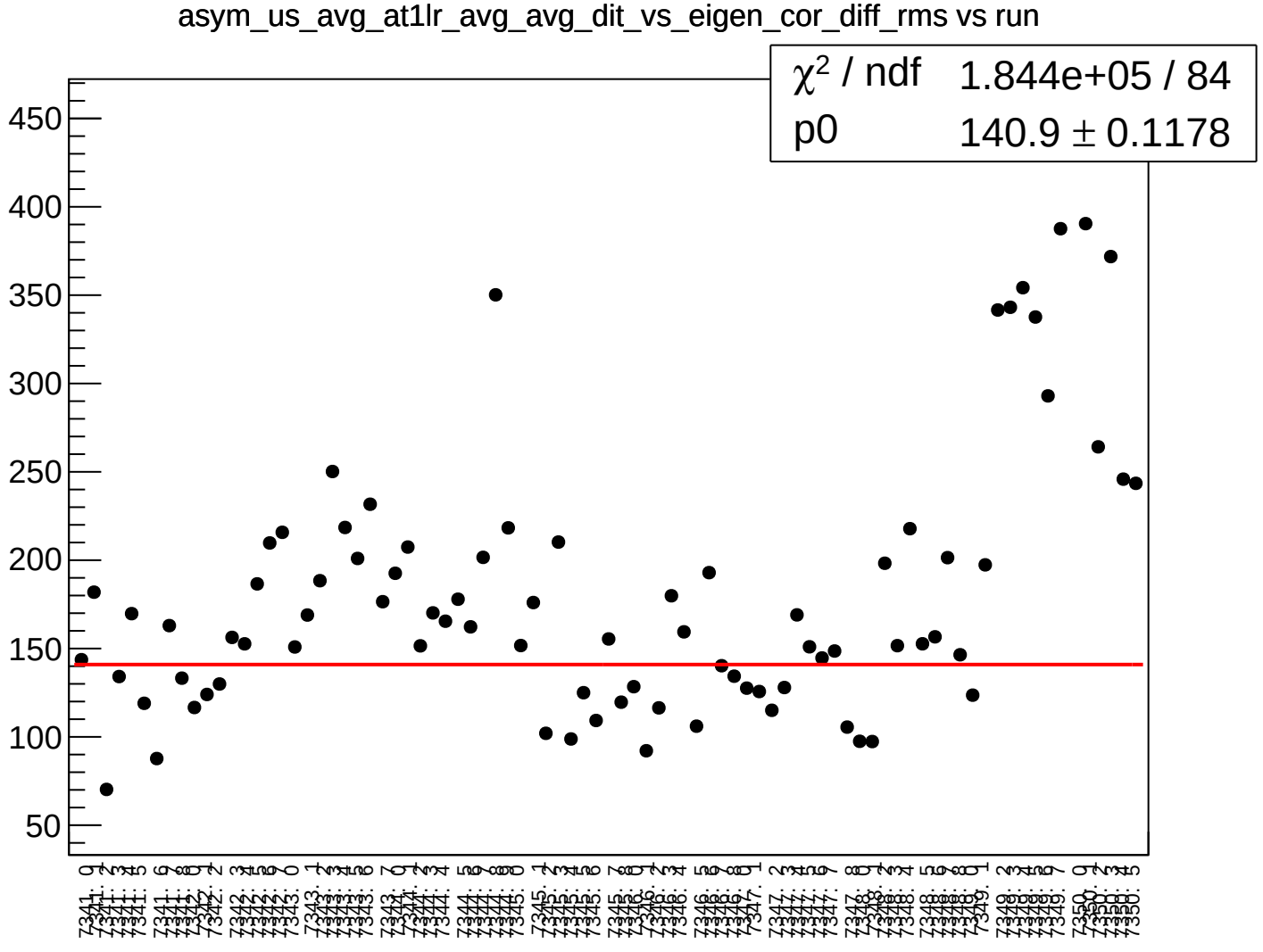

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.93 / 84
p0 6.072e−14 ± 7.185e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 85
Mean −316.2
Std Dev 0
pull1D
Entries 85
Mean 0.009314
Std Dev 1.011

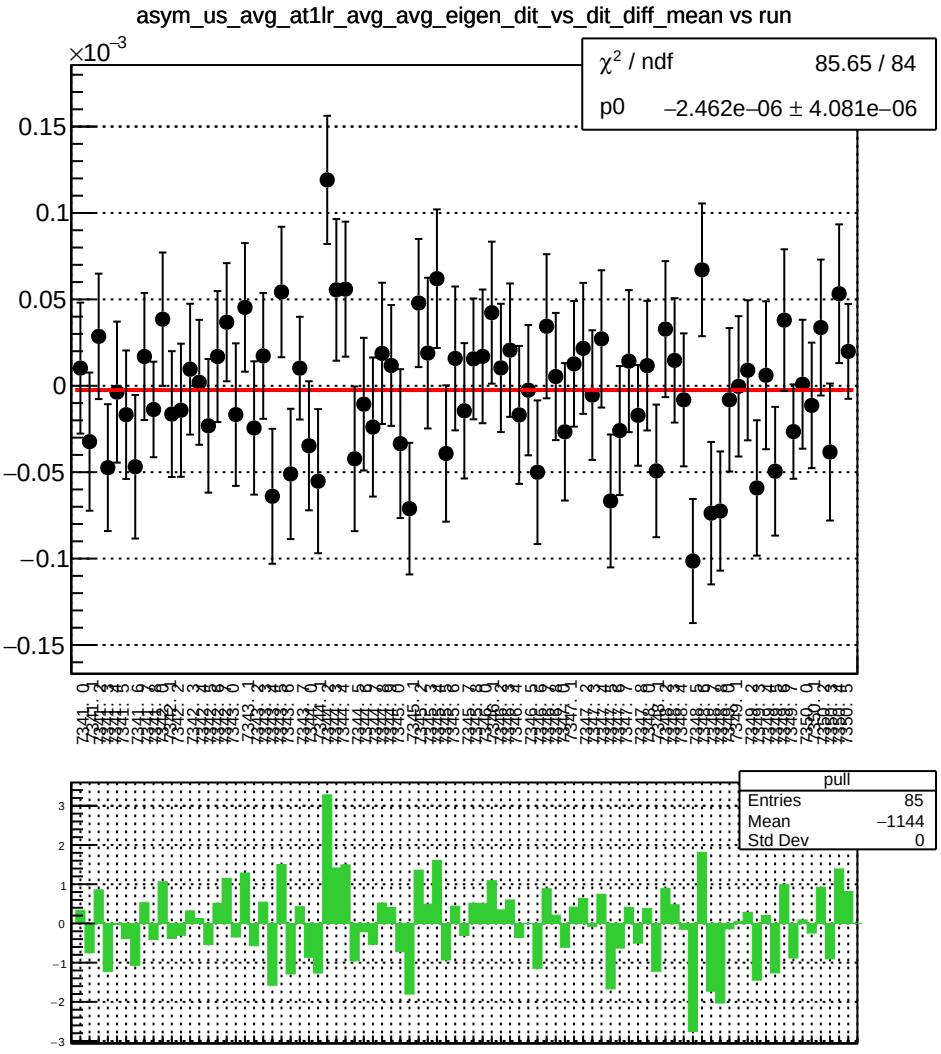

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.351e+06 / 84
p0 2.619e−11 ± 5.081e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

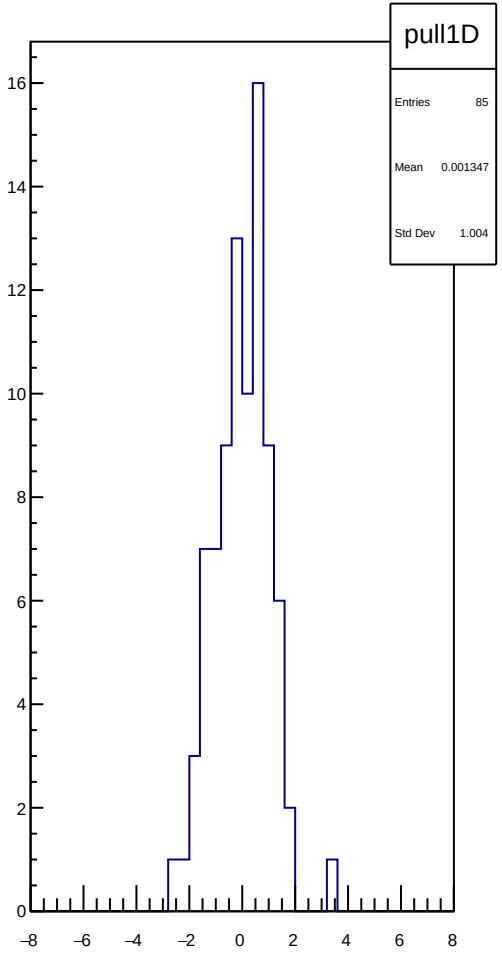

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.77 / 84
p0 0.0245 ± 0.1666
pull
Entries 85
Mean 3.192
Std Dev 0
pull1D
Entries 85
Mean 0.0465
Std Dev 0.9737

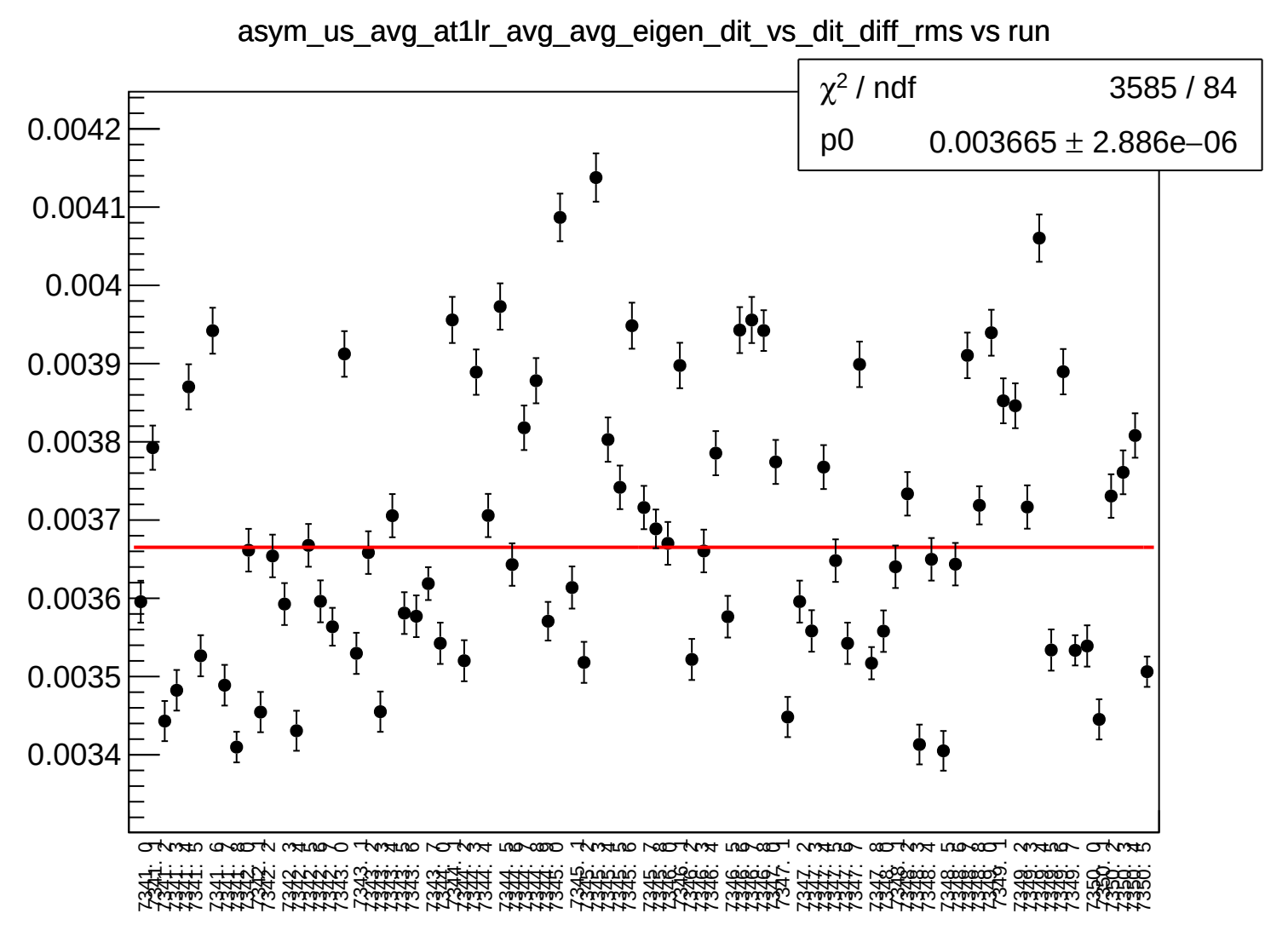

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.844e+05 / 84
p0 140.9 ± 0.1178
450
400
350
300
250
200
150
100
50

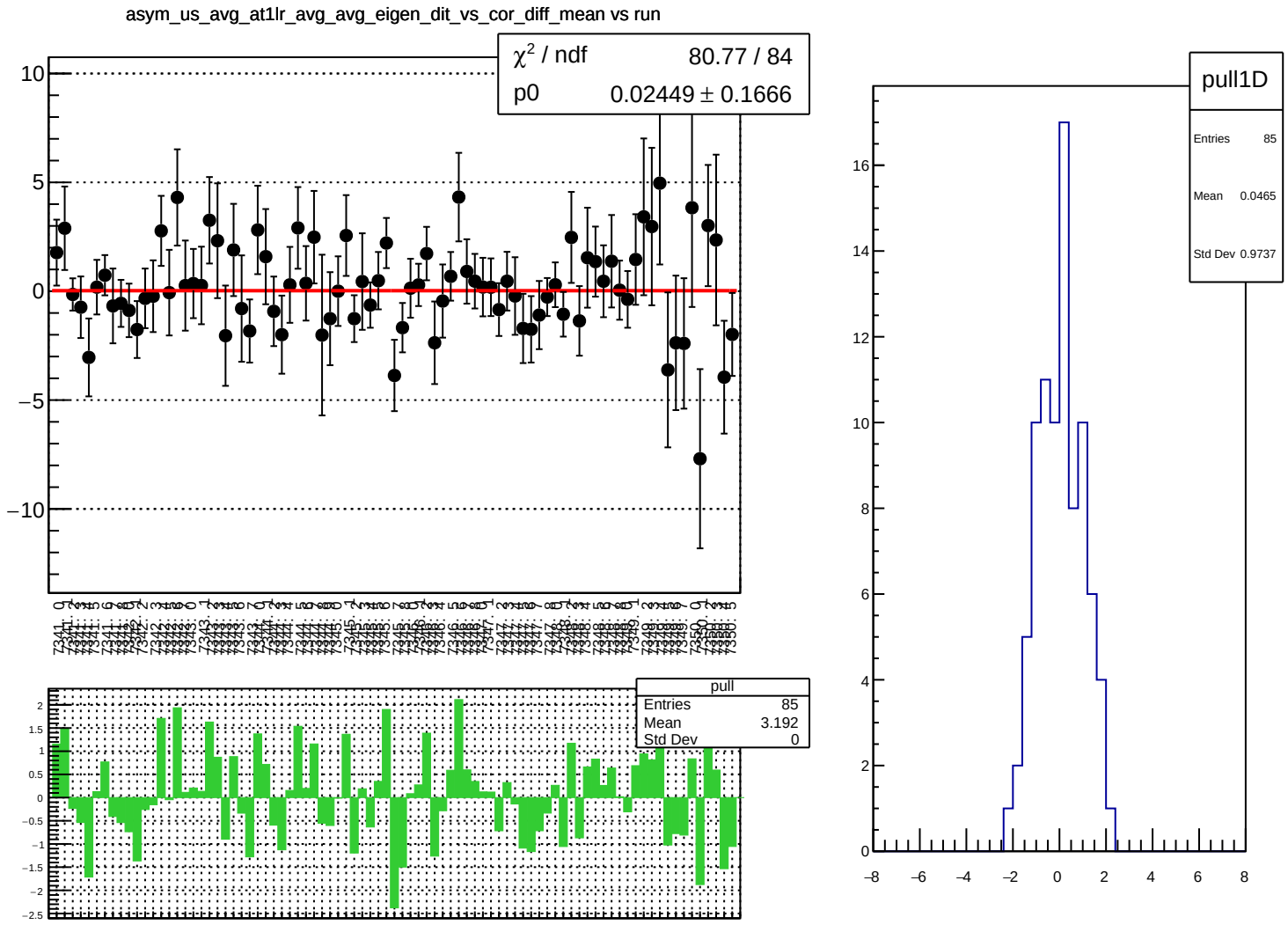

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.77 / 84
p0 0.0245 ± 0.1666
pull
Entries 85
Mean 3.192
Std Dev 0
pull1D
Entries 85
Mean 0.0465
Std Dev 0.9737

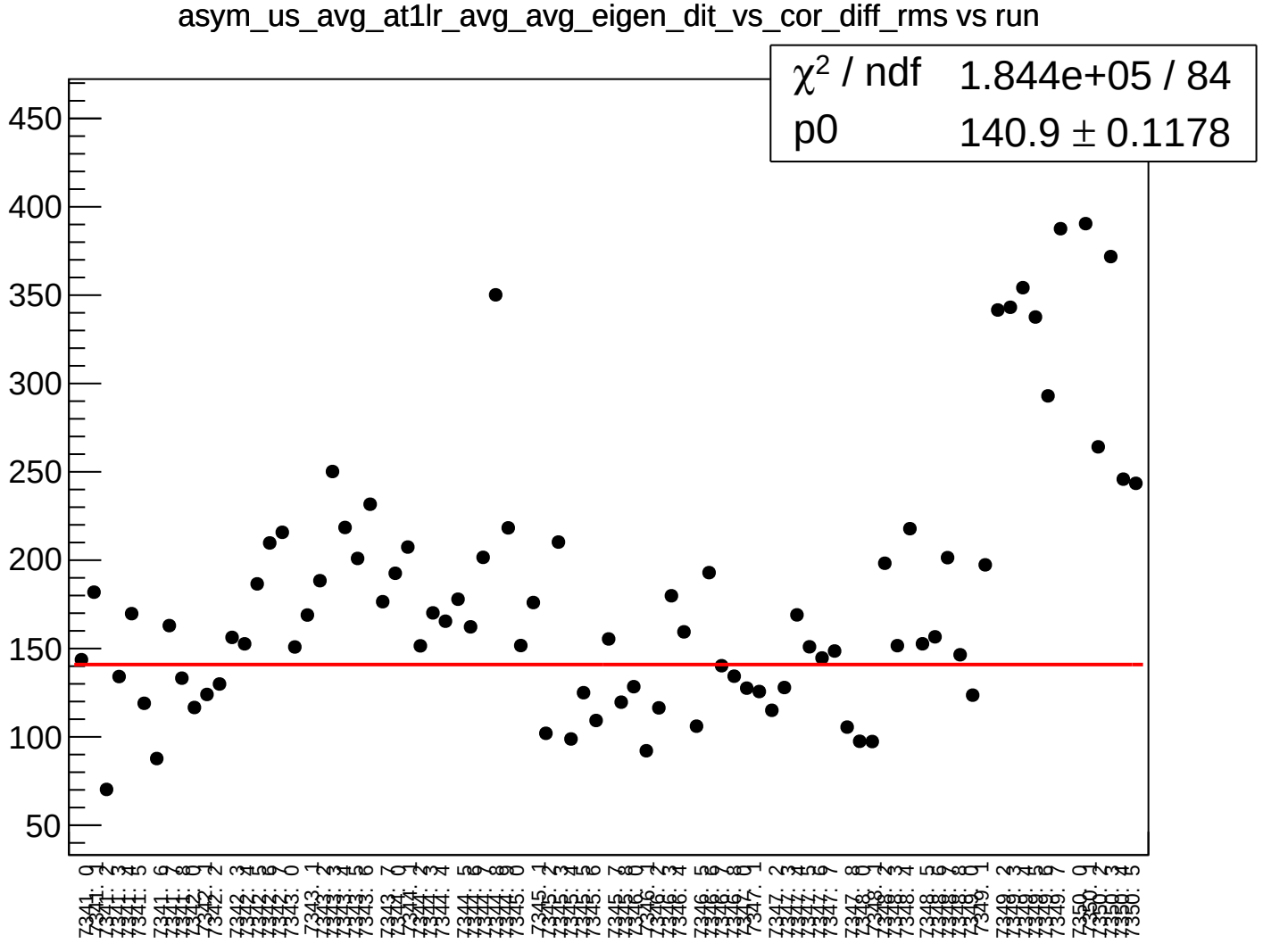

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.844e+05 / 84
p0 140.9 ± 0.1178
450
400
350
300
250
200
150
100
50

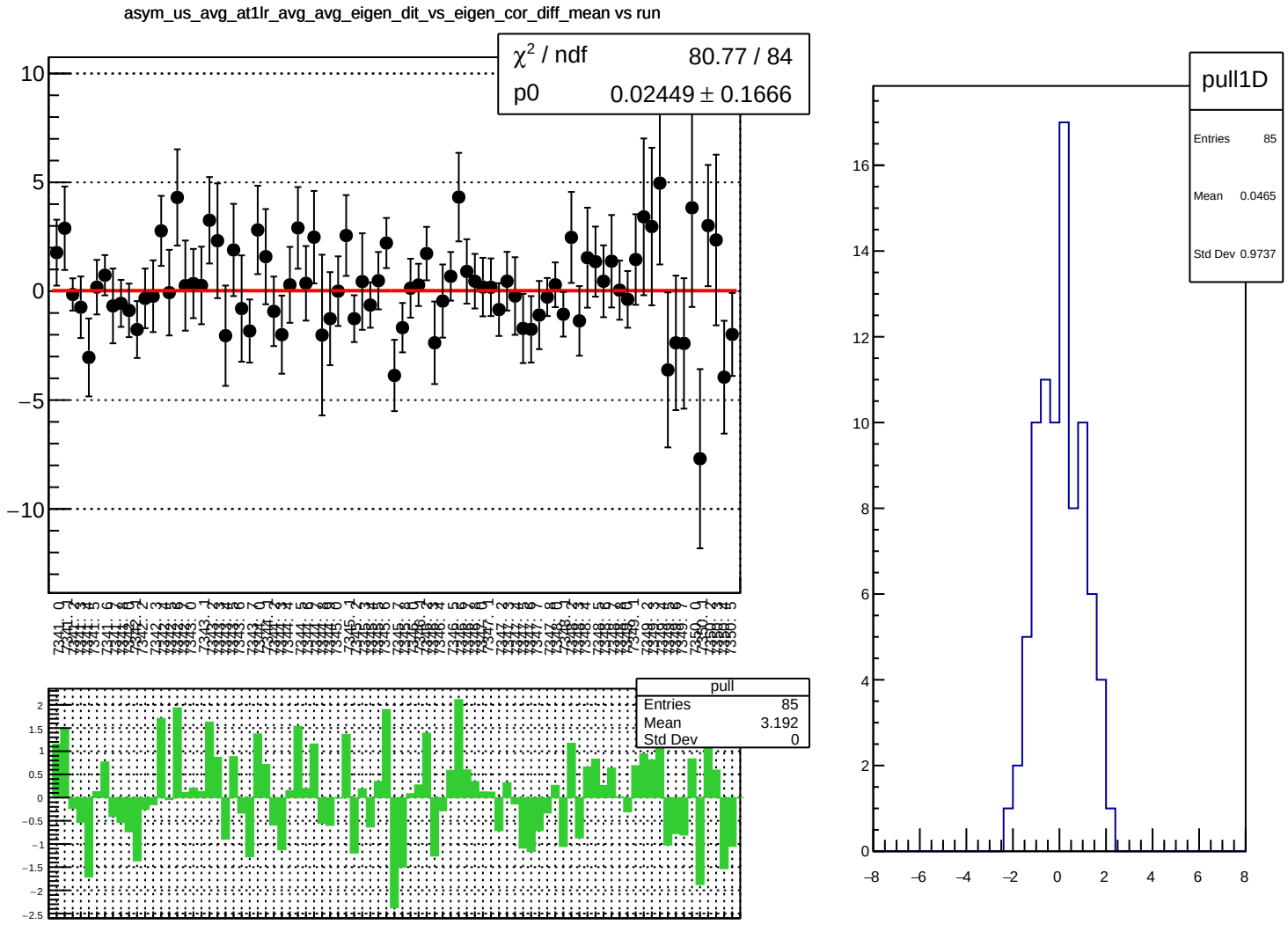

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.65 / 84
p0 −2.462e−06 ± 4.081e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean −1144
Std Dev 0
3
2
1
0
−1
−2
−3

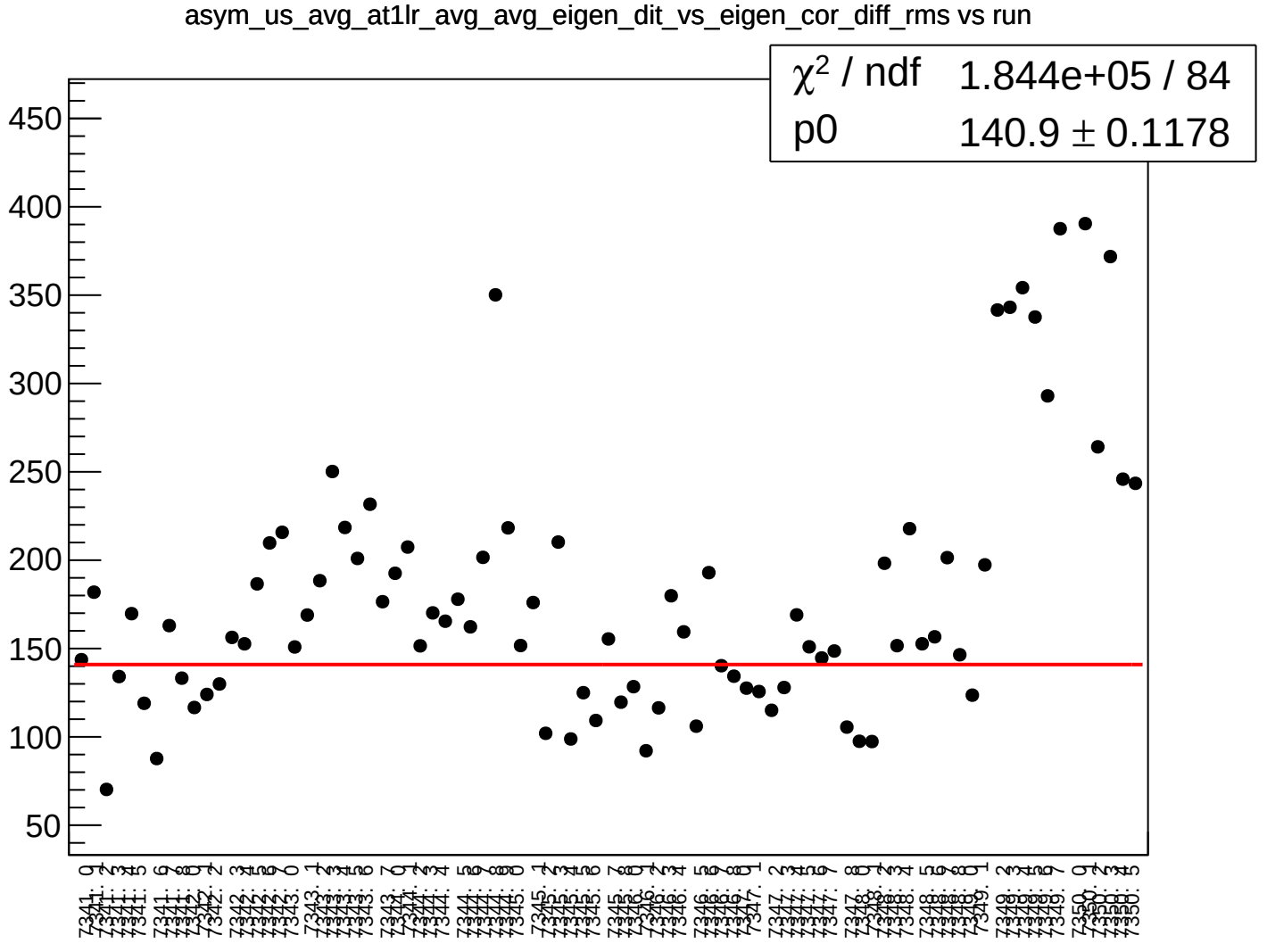

pull1D
Entries 85
Mean 0.001347
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

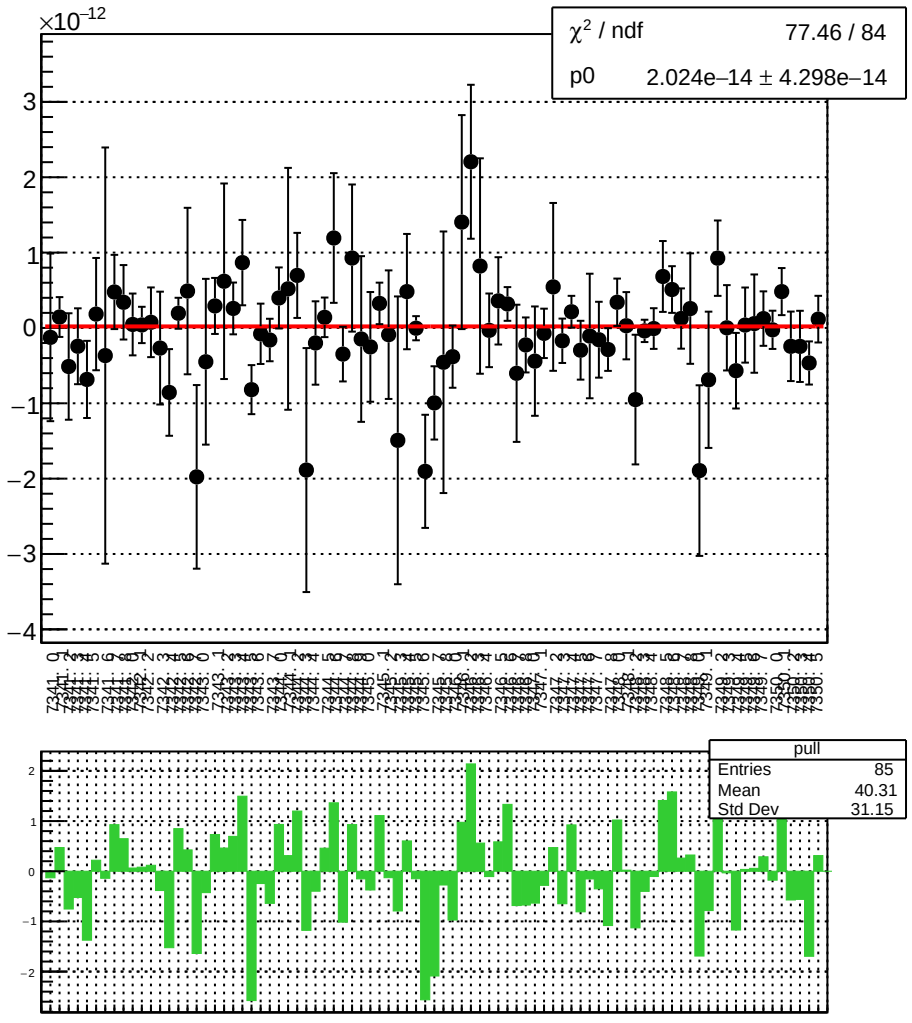

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3585 / 84
p0 0.003665 ± 2.886e−06
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034

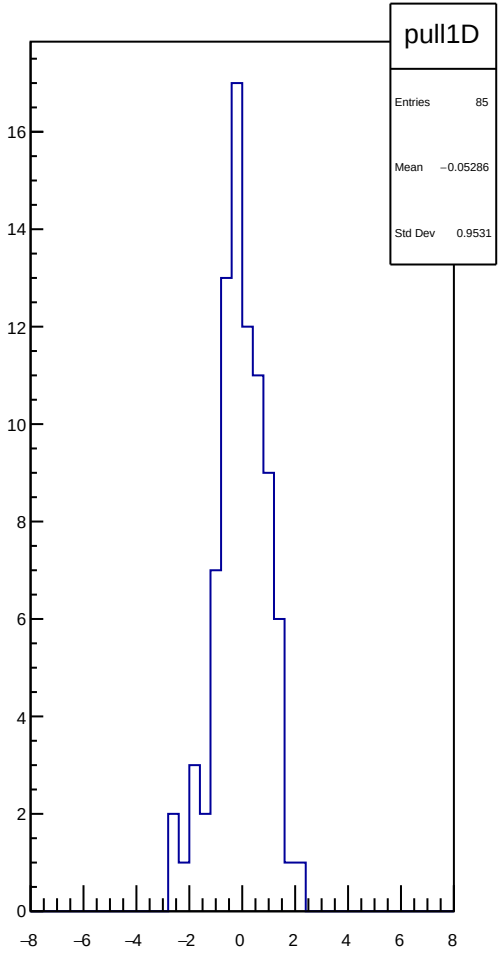

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.77 / 84
p0 0.02449 ± 0.1666
pull
Entries 85
Mean 3.192
Std Dev 0
pull1D
Entries 85
Mean 0.0465
Std Dev 0.9737

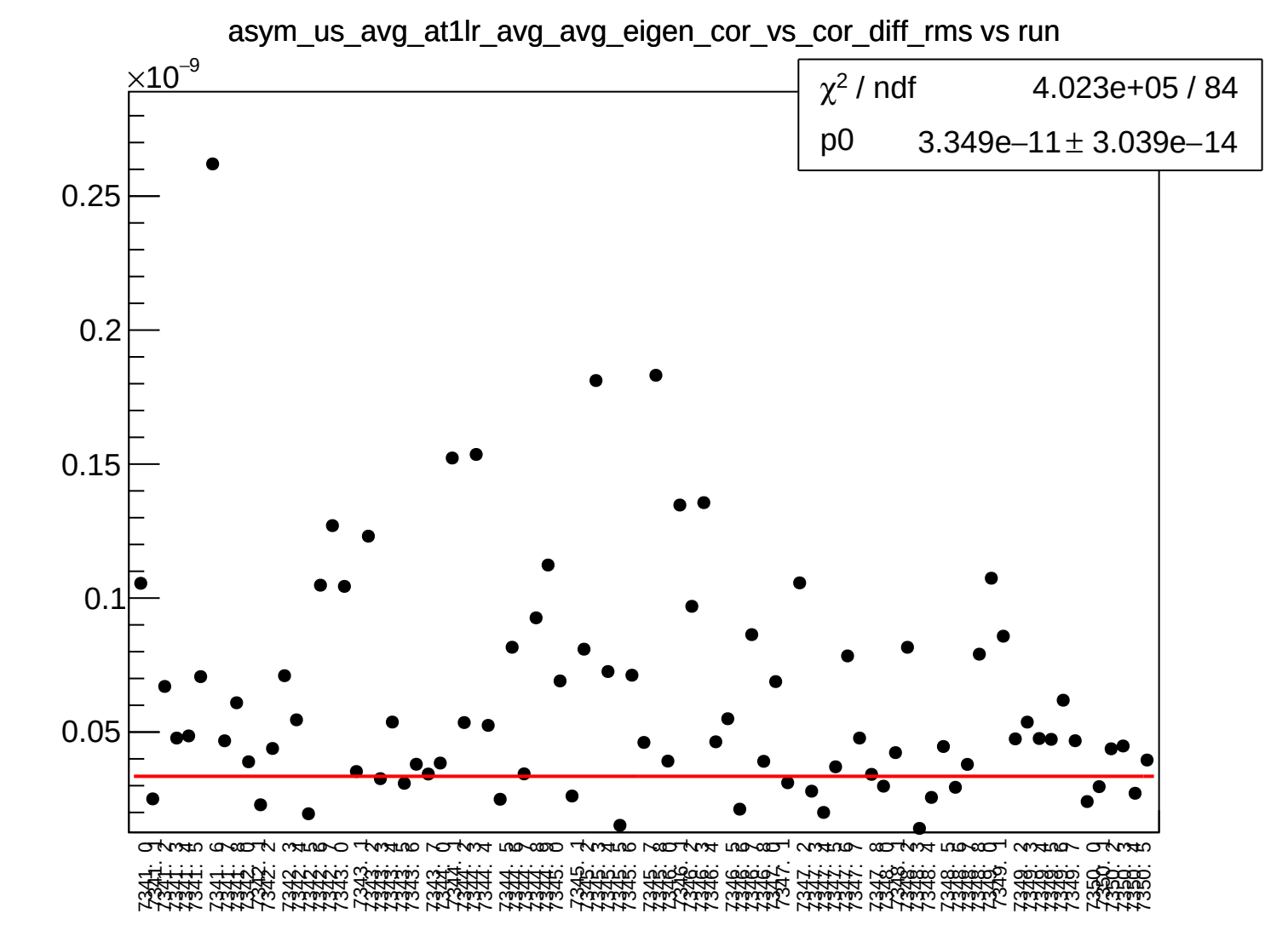

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.844e+05 / 84
p0 140.9 ± 0.1178
450
400
350
300
250
200
150
100
50

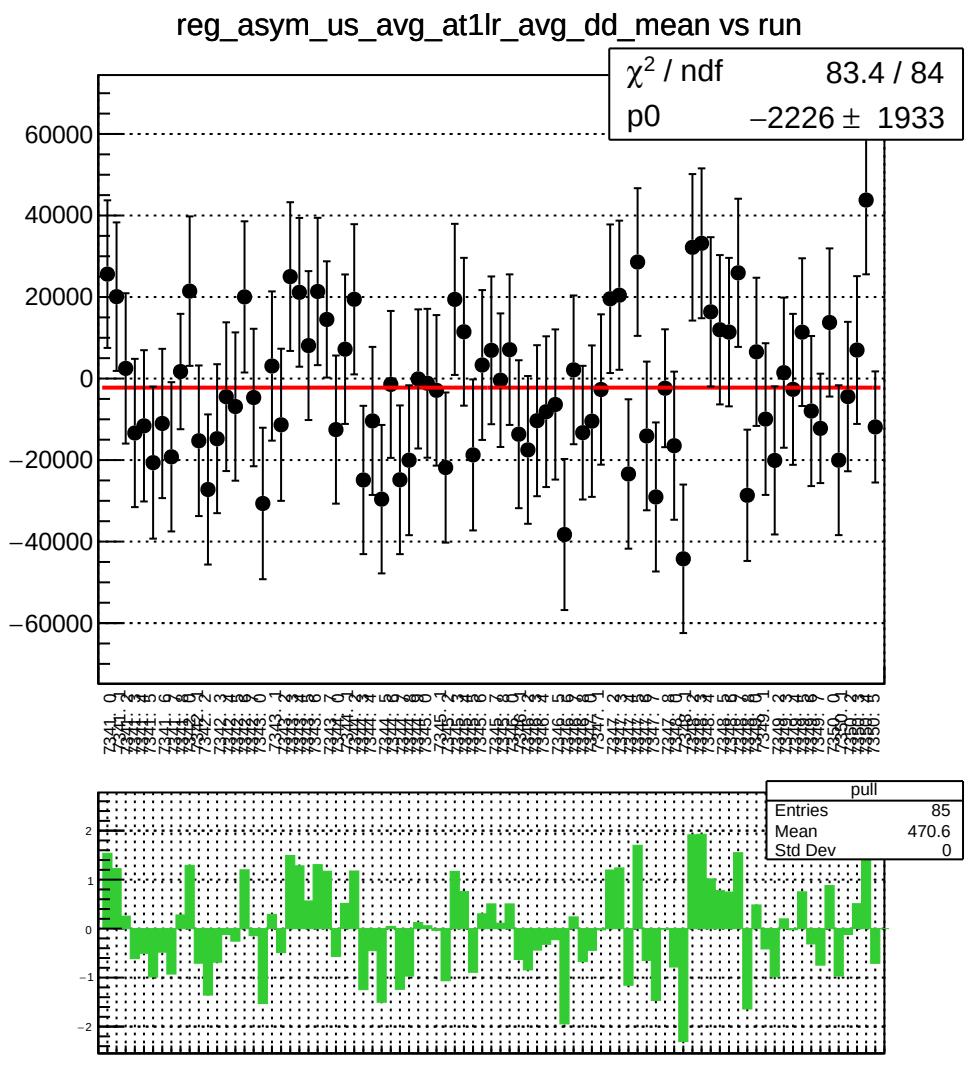

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.77 / 84
p0 0.02449 ± 0.1666
pull
Entries 85
Mean 3.192
Std Dev 0
pull1D
Entries 85
Mean 0.0465
Std Dev 0.9737

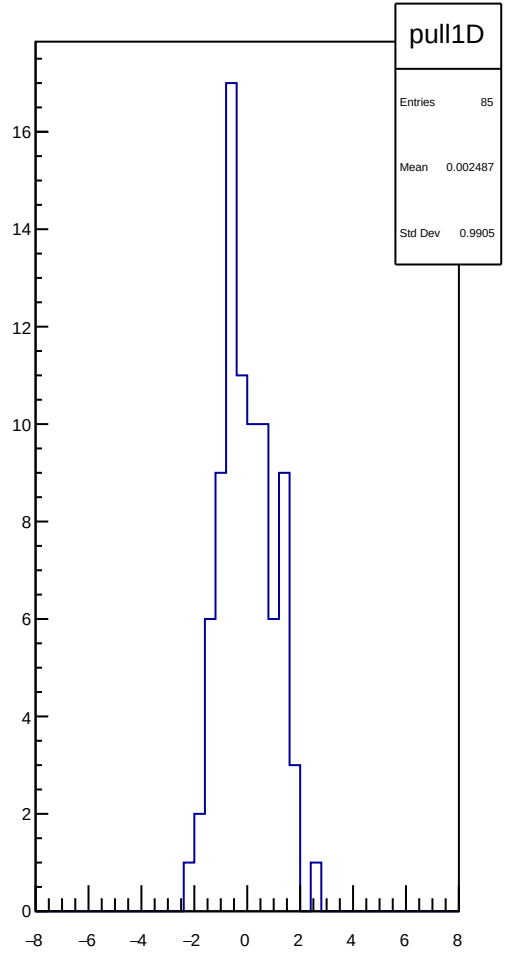

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.844e+05 / 84
p0 140.9 ± 0.1178
450
400
350
300
250
200
150
100
50

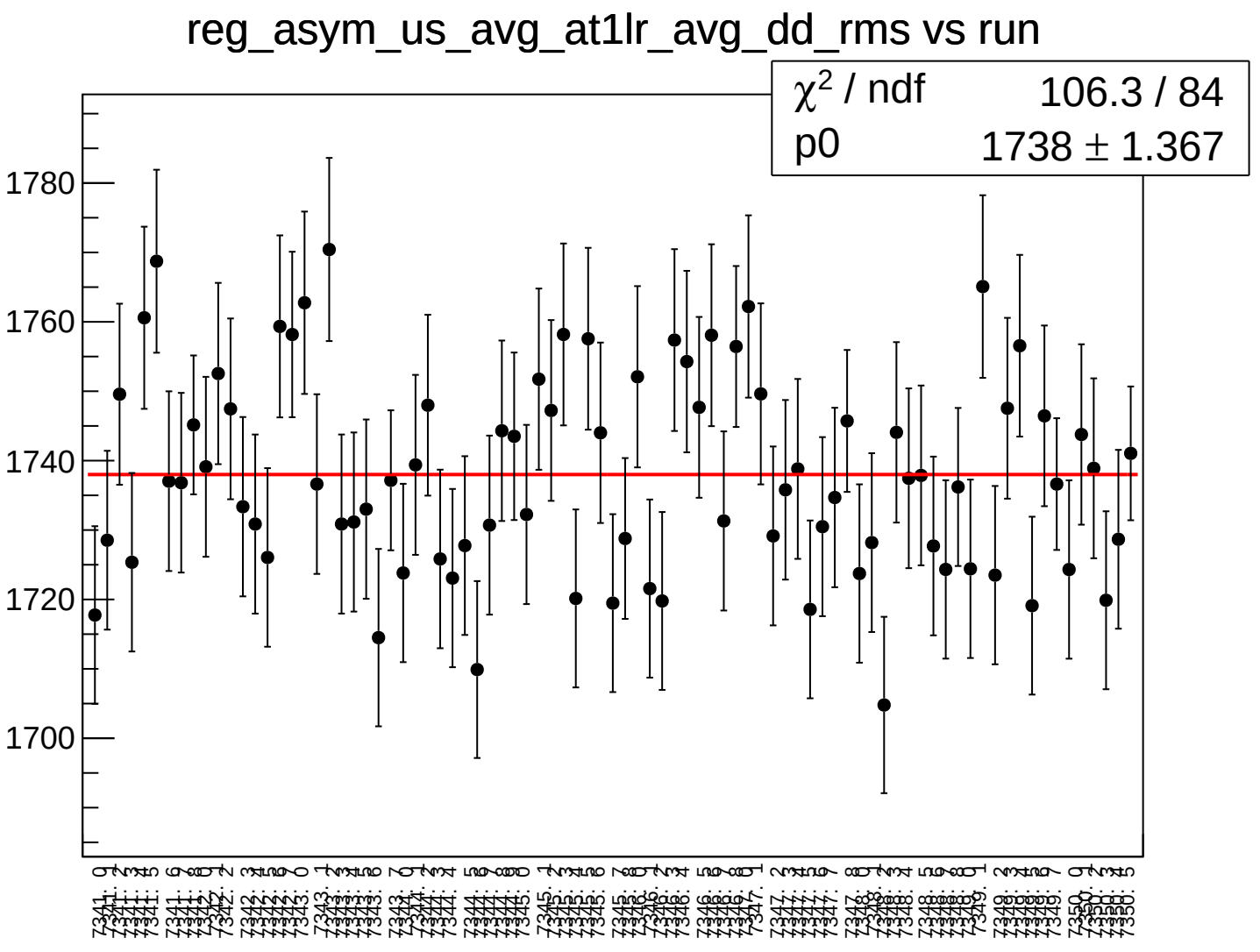

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.46 / 84
p0 2.024e−14 ± 4.298e−14
pull
Entries 85
Mean 40.31
Std Dev 31.15

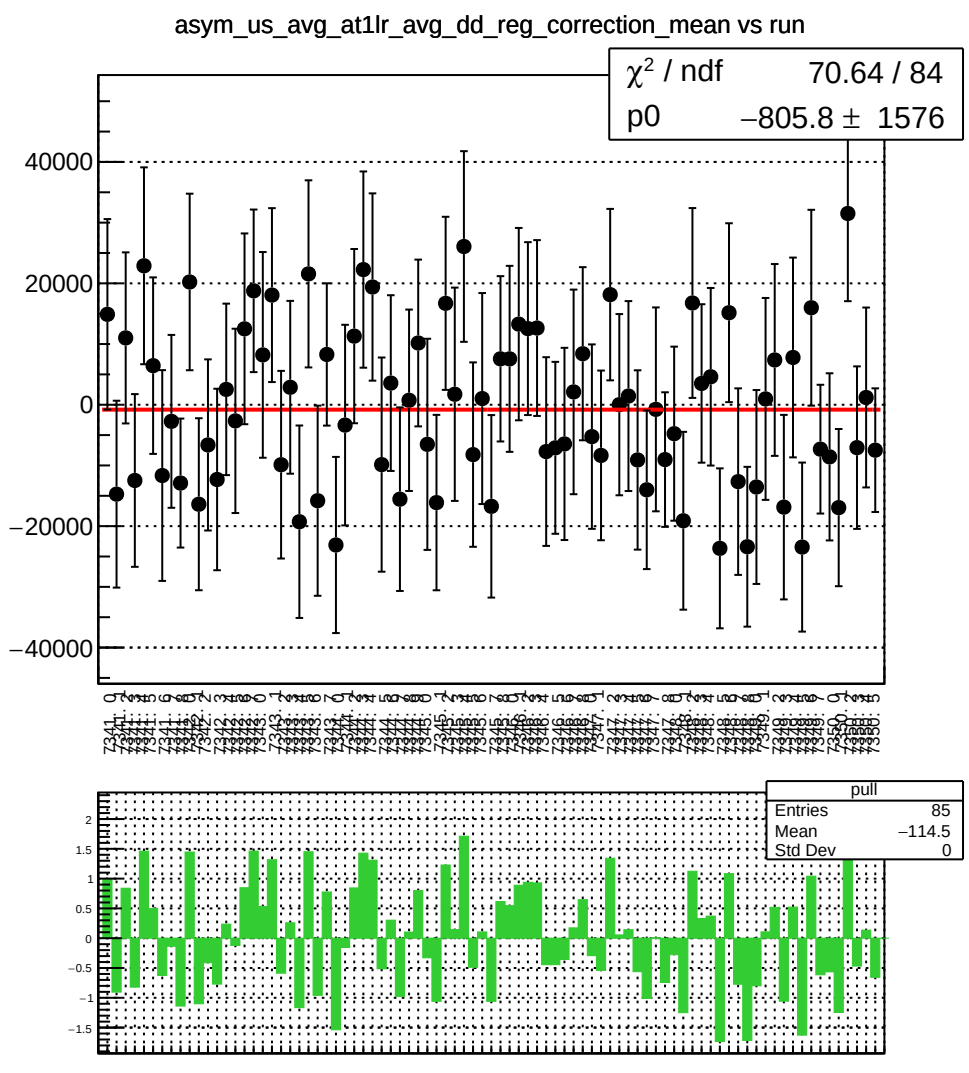

pull1D
Entries 85
Mean −0.05286
Std Dev 0.9531

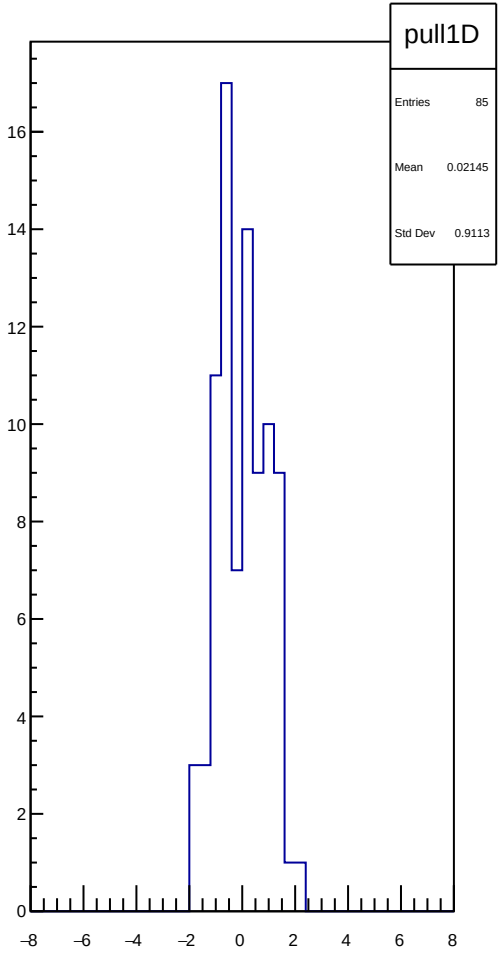

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.023e+05 / 84
p0 3.349e−11 ± 3.039e−14
0.25
0.2
0.15
0.1
0.05

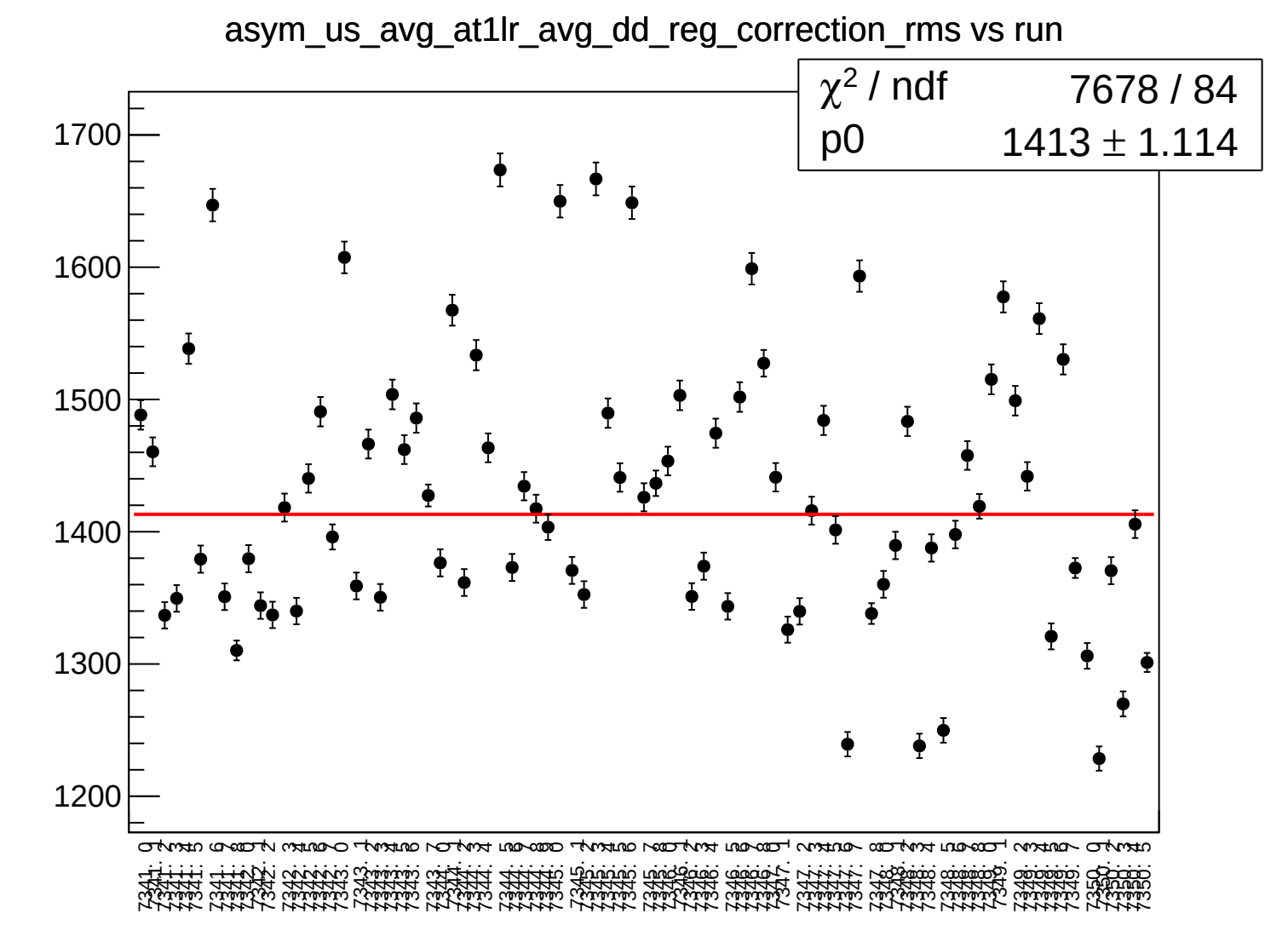

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 83.4 / 84
p0 −2226 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 470.6
Std Dev 0
2
1
0
−1
−2

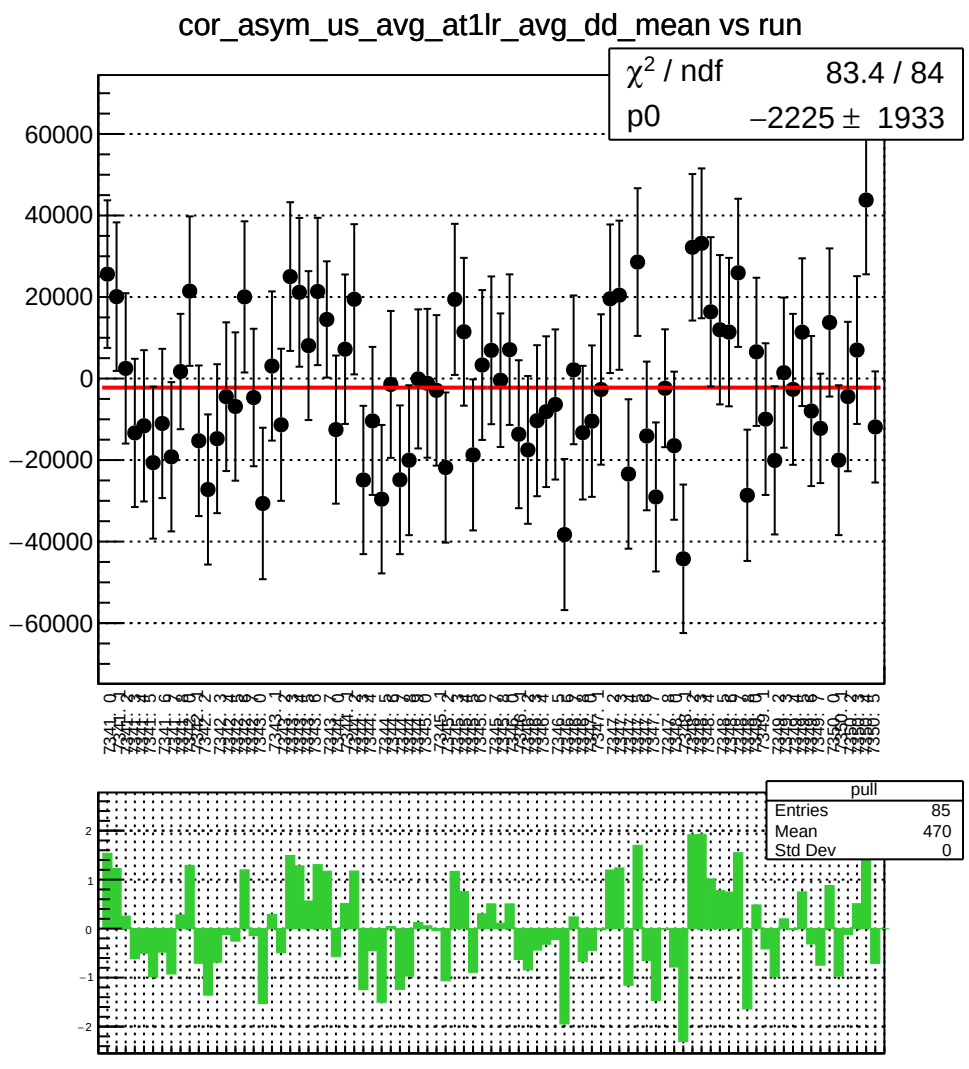

pull1D
Entries 85
Mean 0.002487
Std Dev 0.9905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

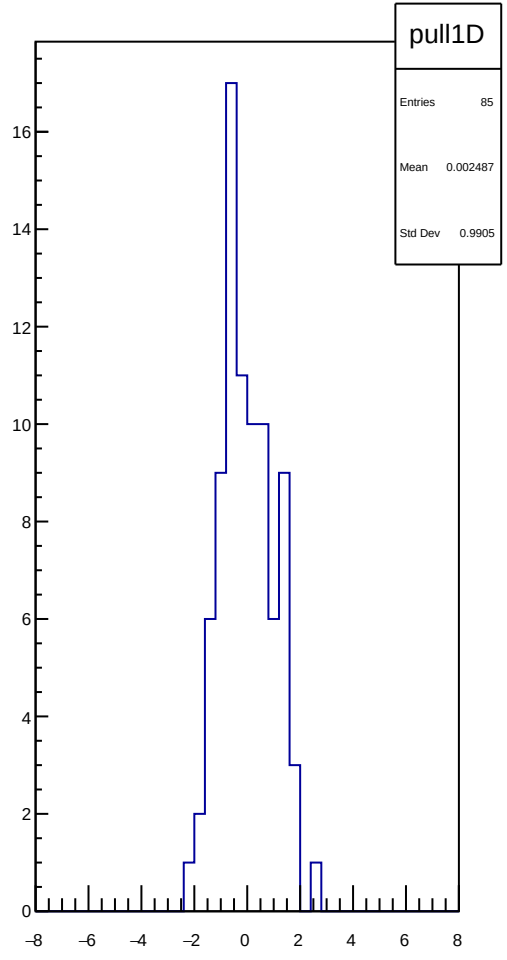

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 106.3 / 84
p0 1738 ± 1.367
1780
1760
1740
1720
1700

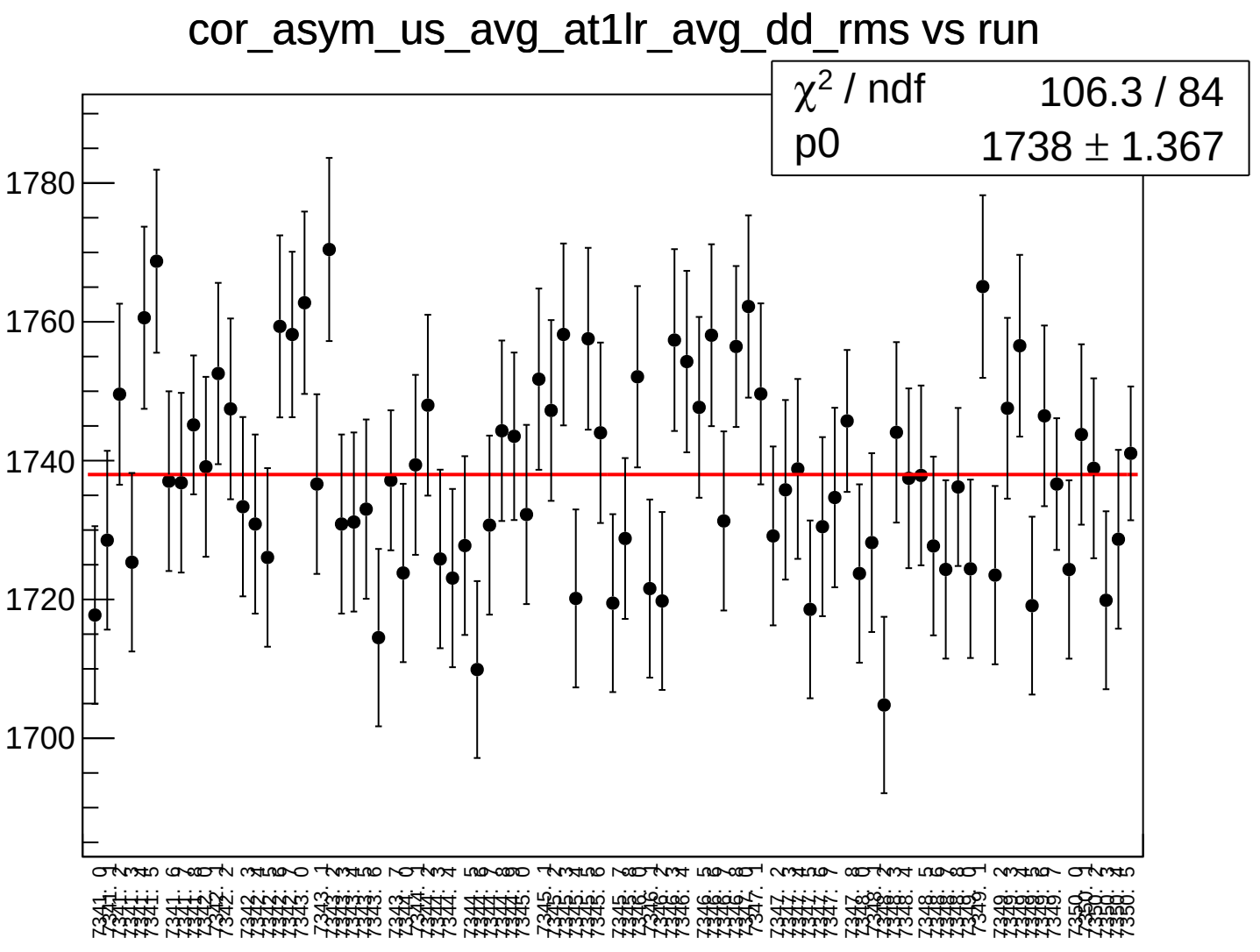

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 70.64 / 84
p0 −805.8 ± 1576
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −114.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

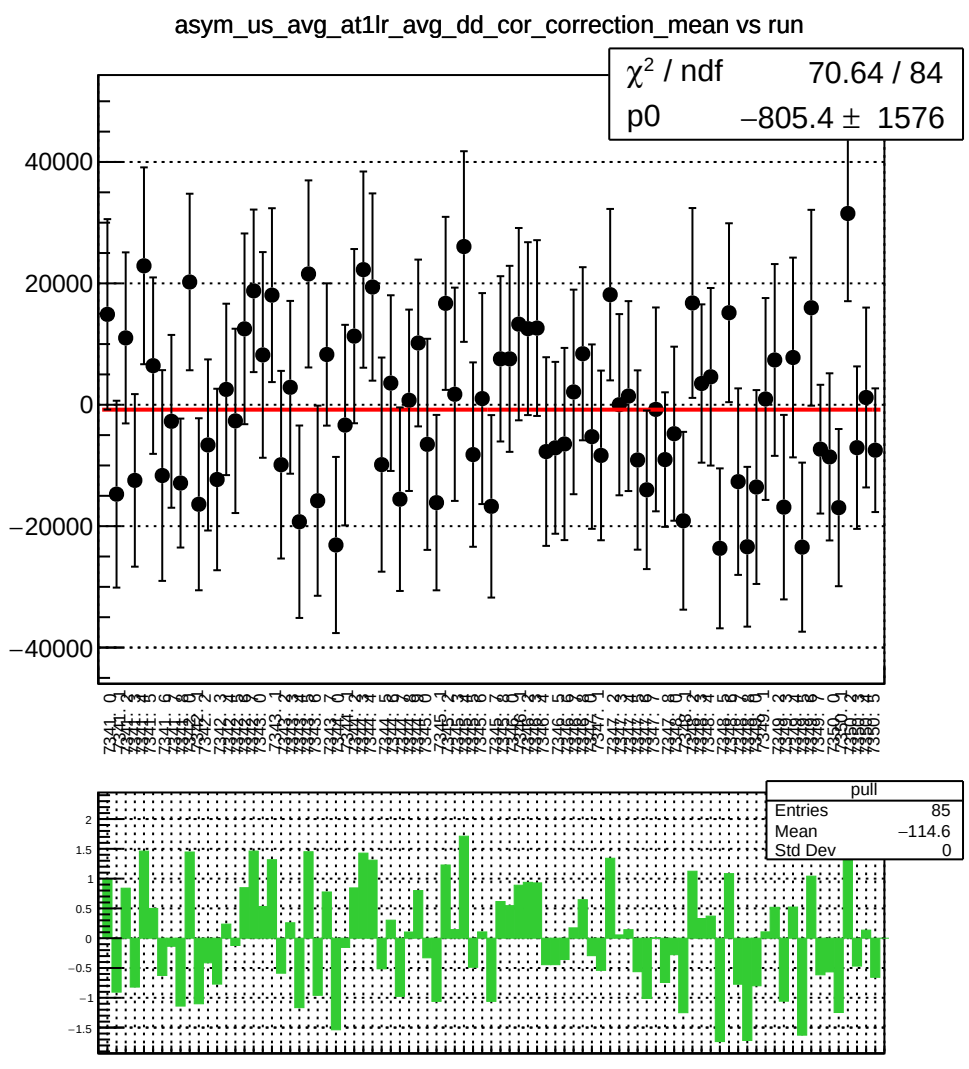

pull1D
Entries 85
Mean 0.02145
Std Dev 0.9113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

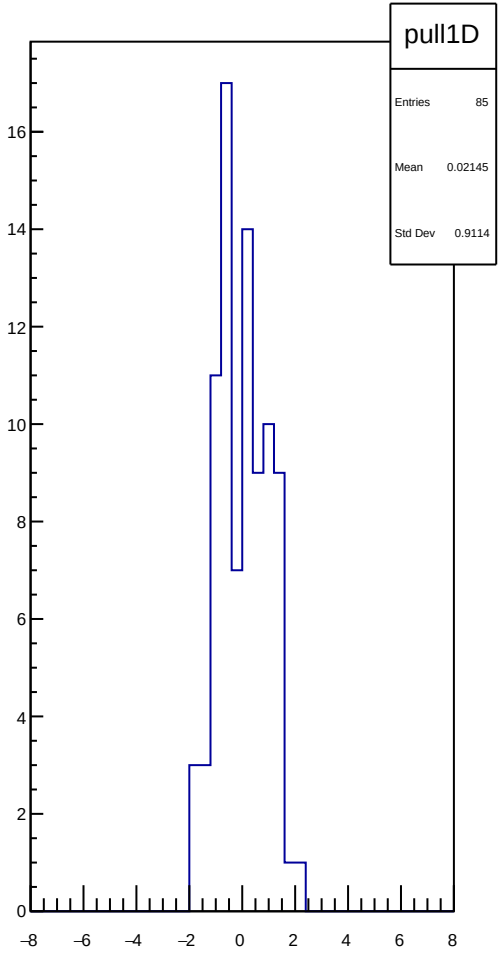

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 7678 / 84
p0 1413 ± 1.114
1700
1600
1500
1400
1300
1200

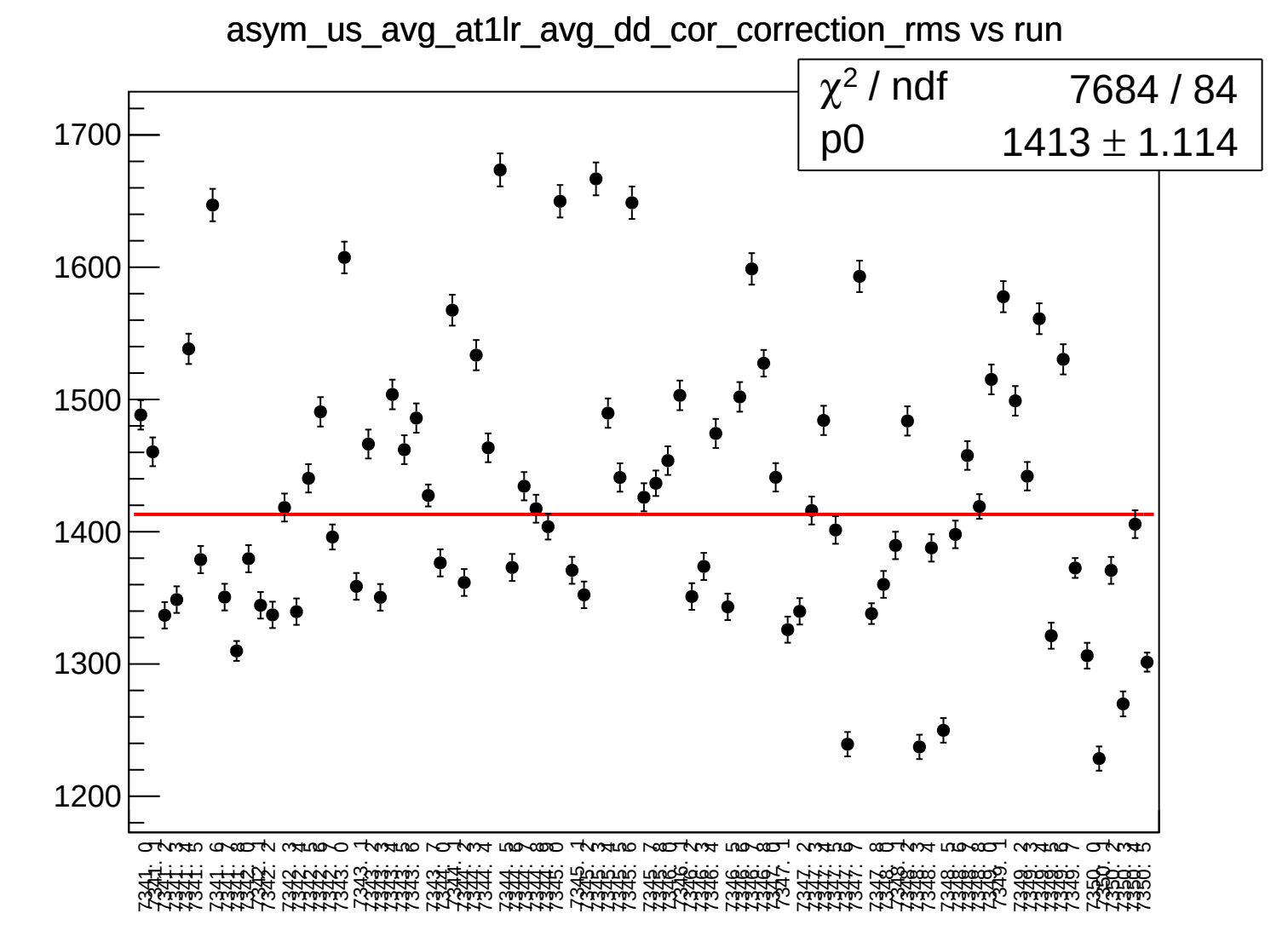

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 83.4 / 84
p0 −2225 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 470
Std Dev 0
2
1
0
−1
−2

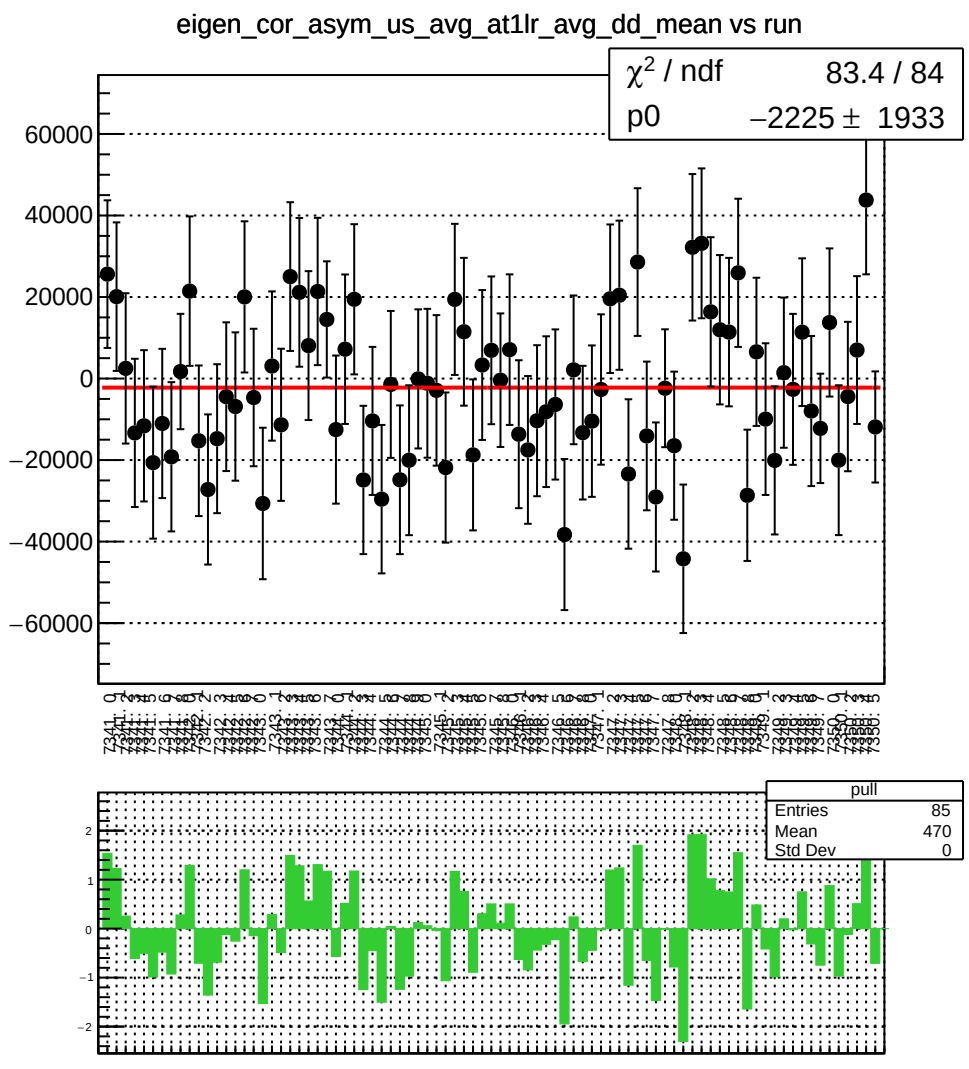

pull1D
Entries 85
Mean 0.002487
Std Dev 0.9905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

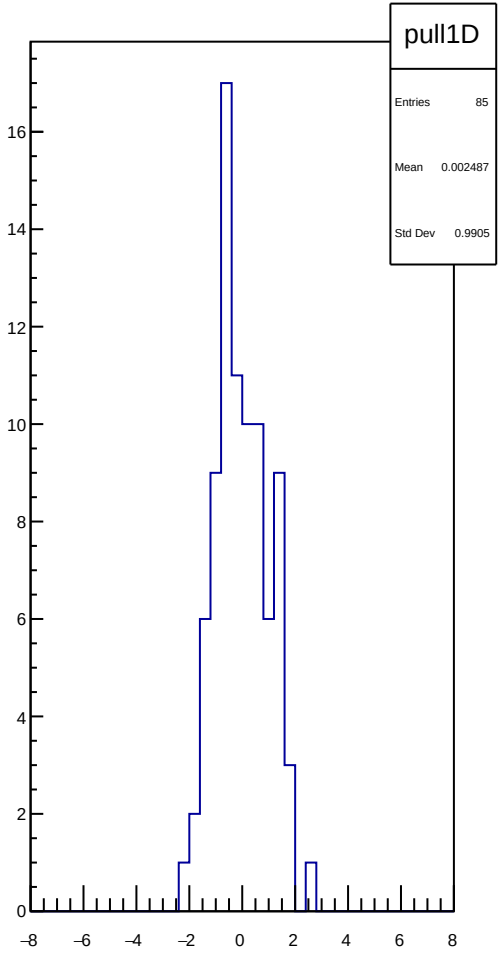

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 106.3 / 84
p0 1738 ± 1.367
1780
1760
1740
1720
1700

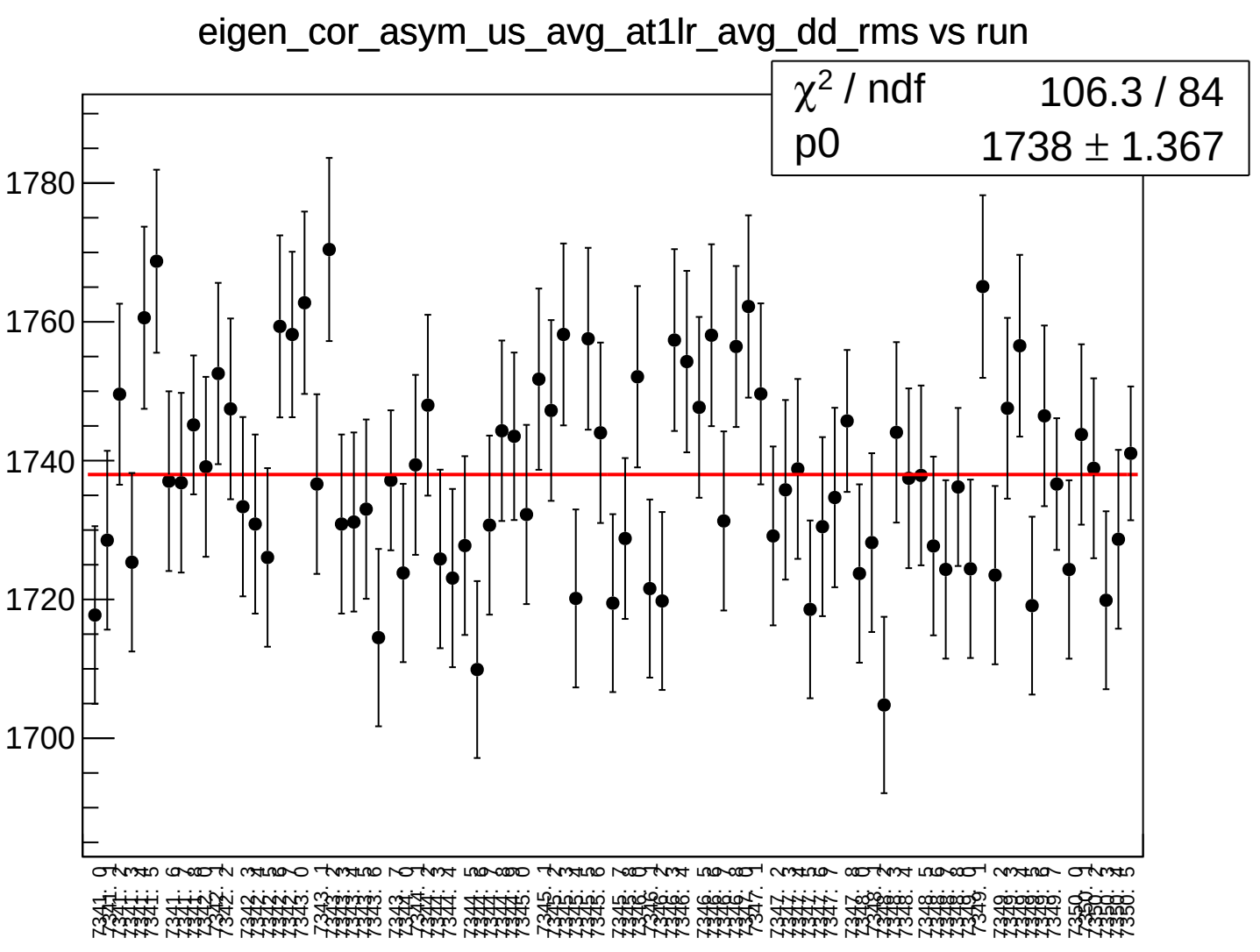

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 70.64 / 84
p0 −805.4 ± 1576
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −114.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

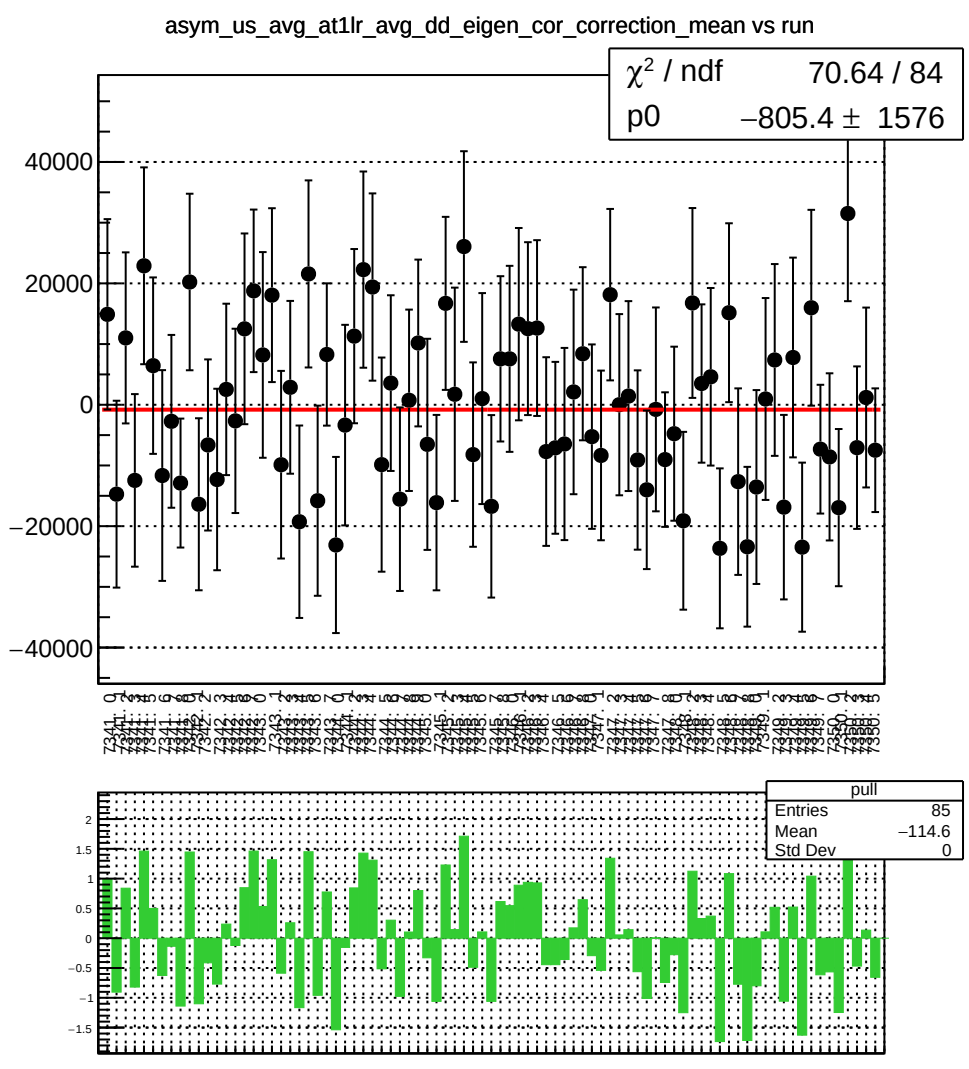

pull1D
Entries 85
Mean 0.02145
Std Dev 0.9114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

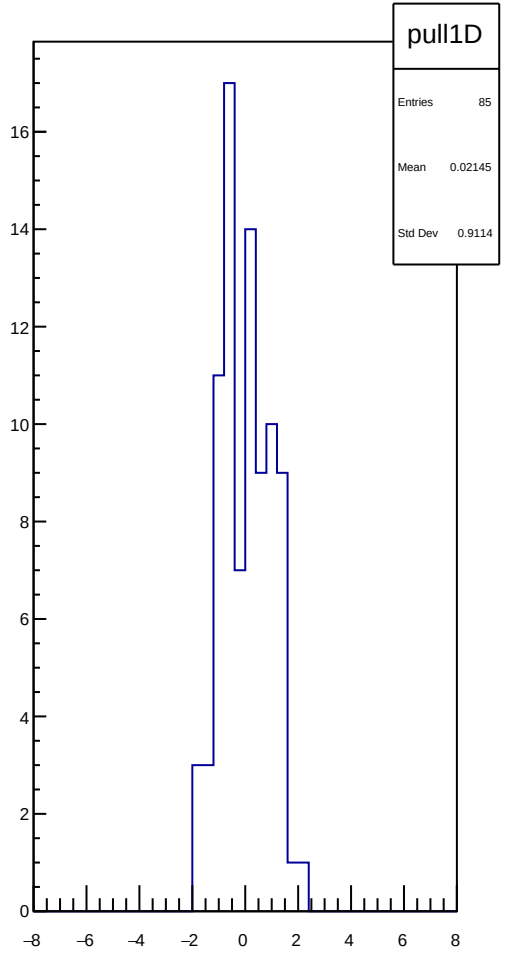

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 7684 / 84
p0 1413 ± 1.114
1700
1600
1500
1400
1300
1200

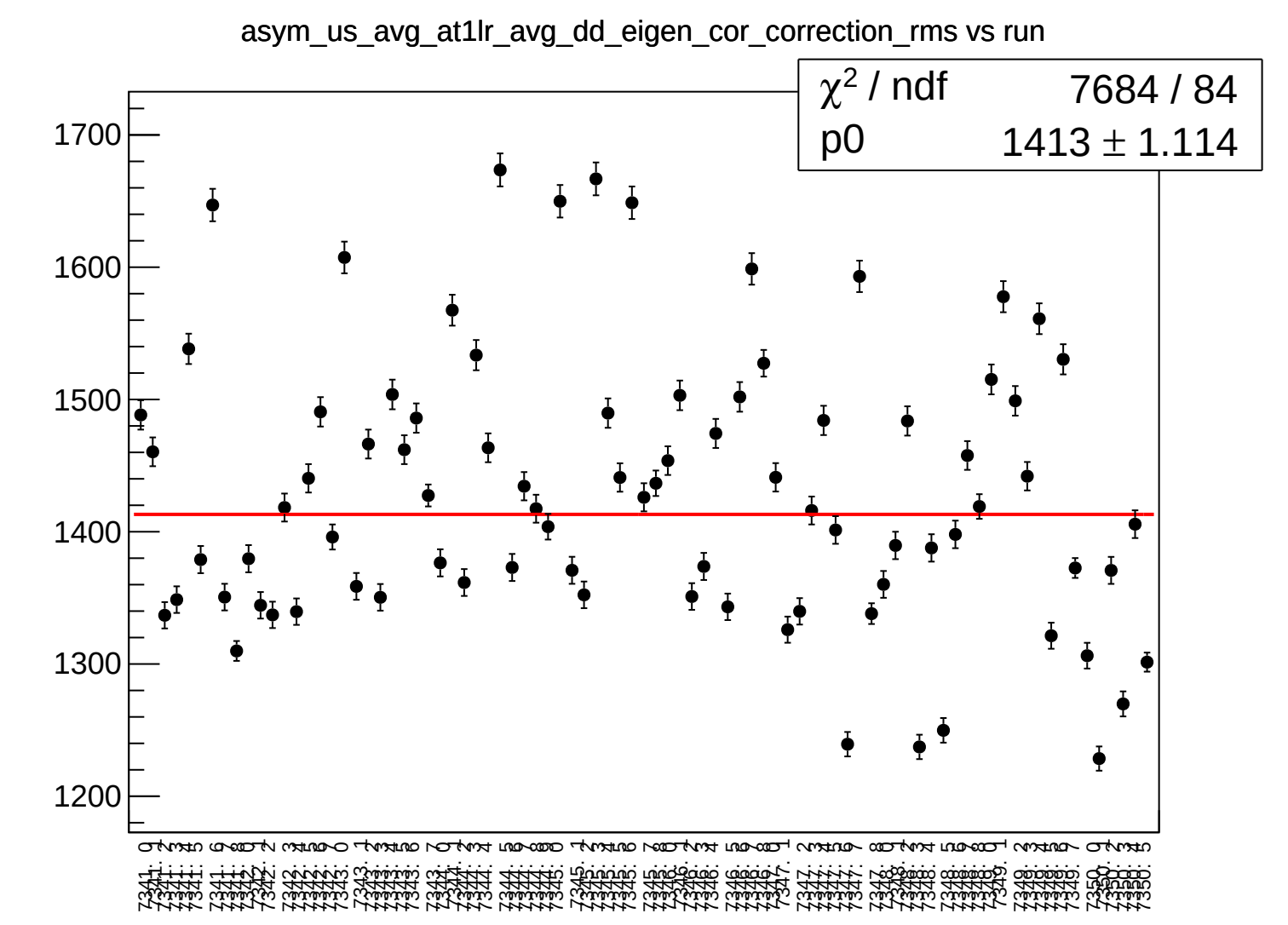

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 83.4 / 84
p0 −2225 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 470
Std Dev 0
2
1
0
−1
−2

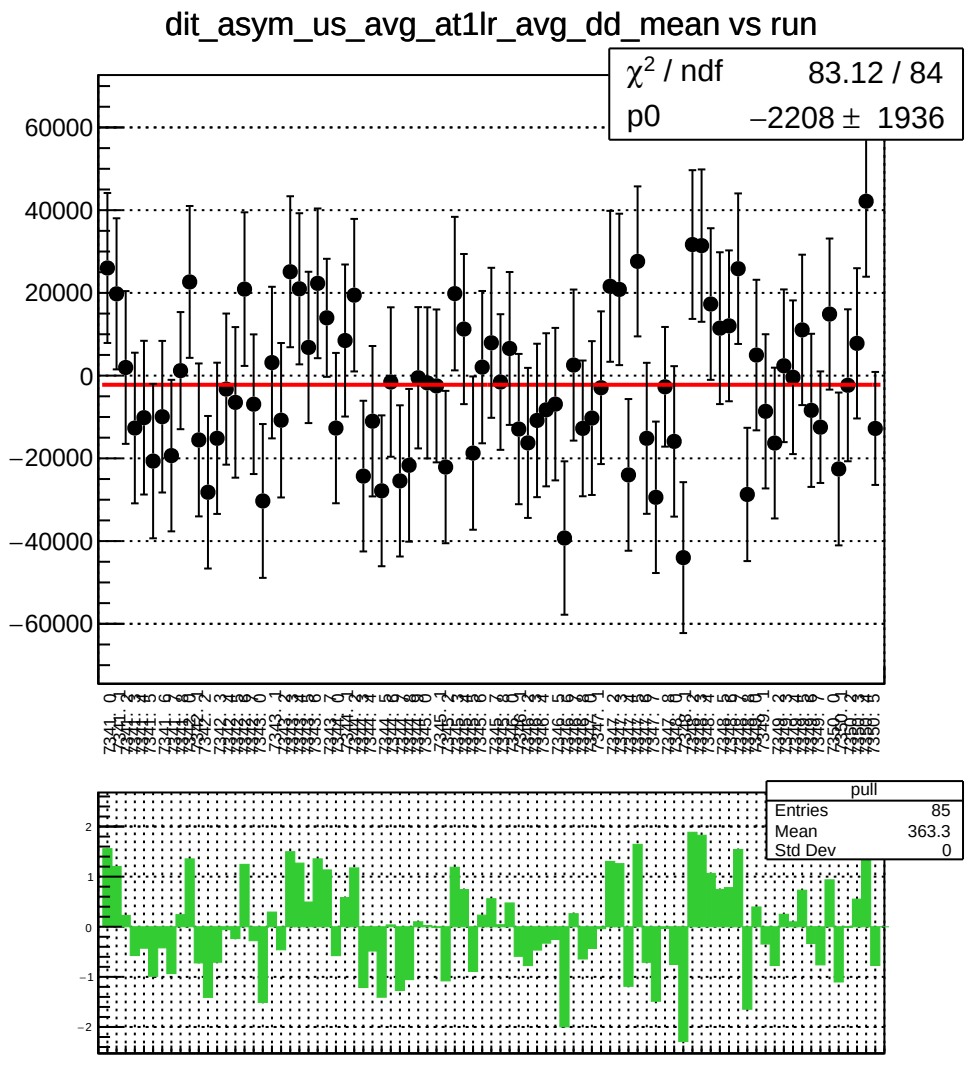

pull1D
Entries 85
Mean 0.002487
Std Dev 0.9905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

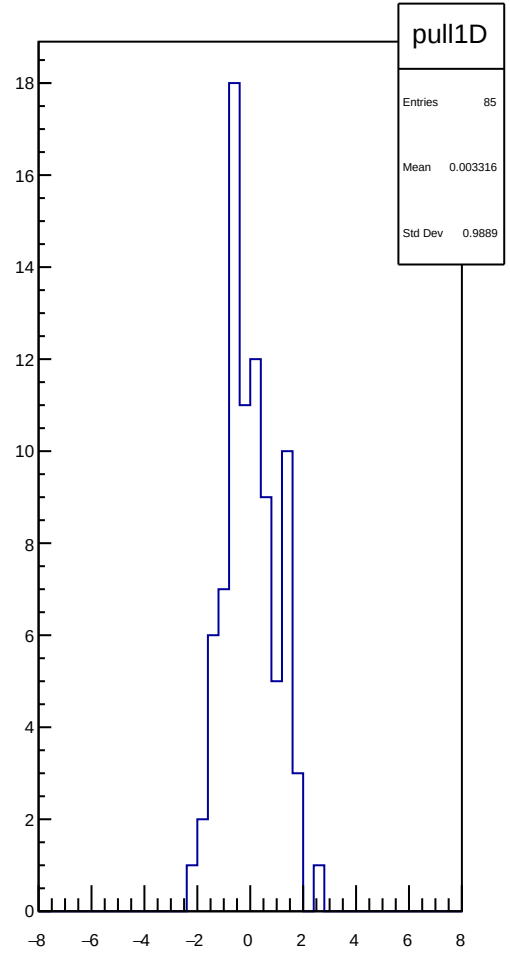

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 106.3 / 84
p0 1738 ± 1.367
1780
1760
1740
1720
1700

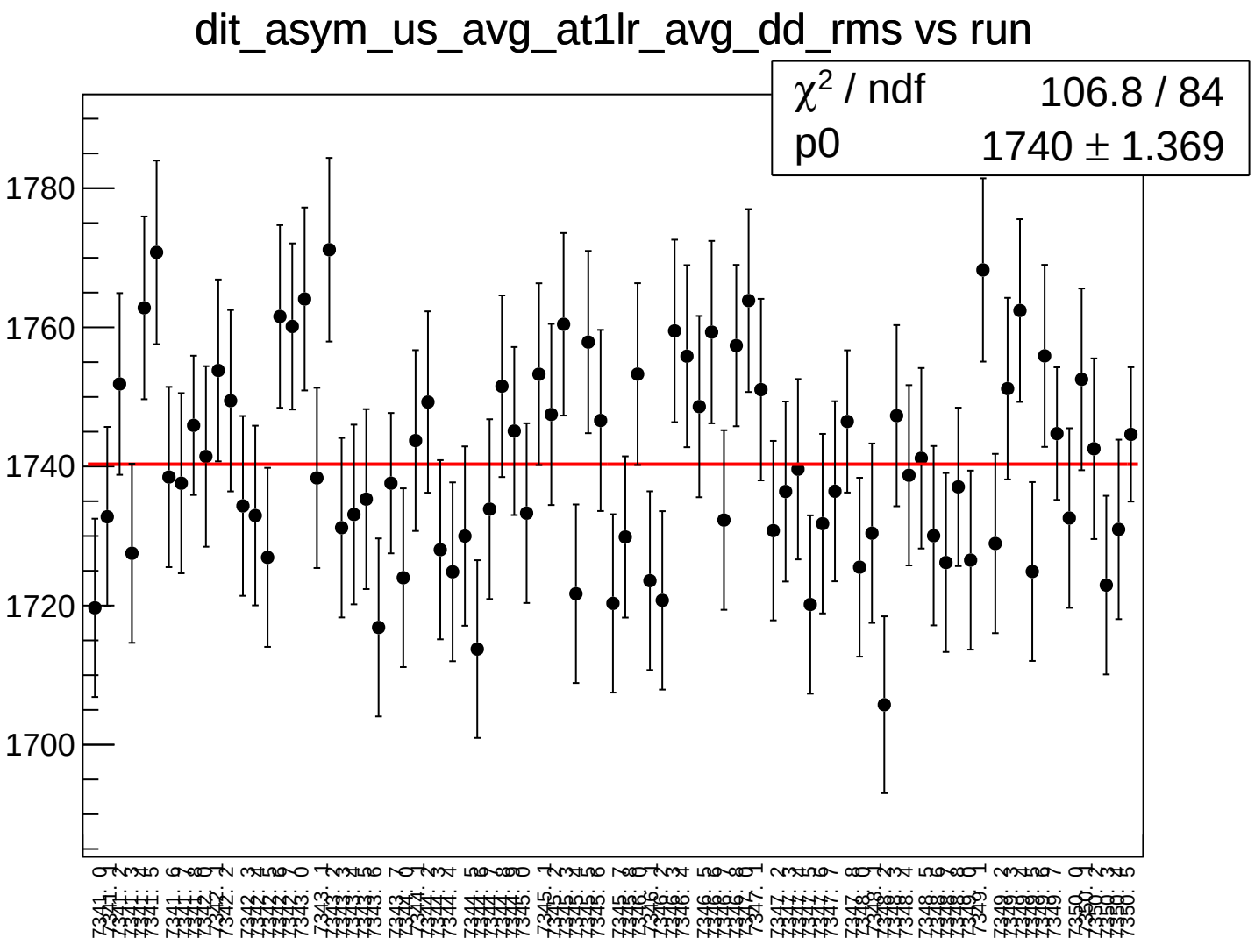

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.64 / 84
p0 −805.4 ± 1576
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −114.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

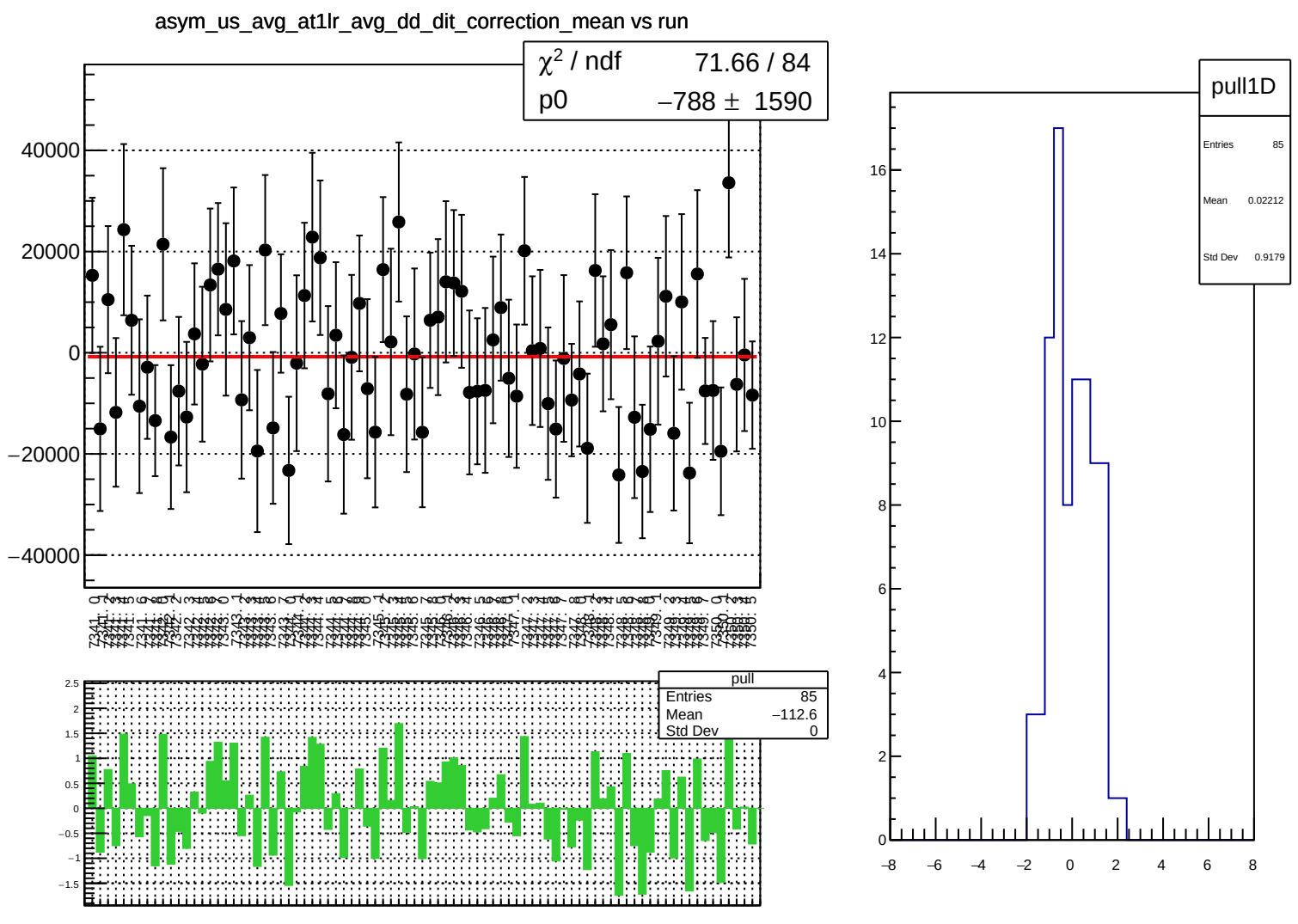

pull1D
Entries 85
Mean 0.02145
Std Dev 0.9114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

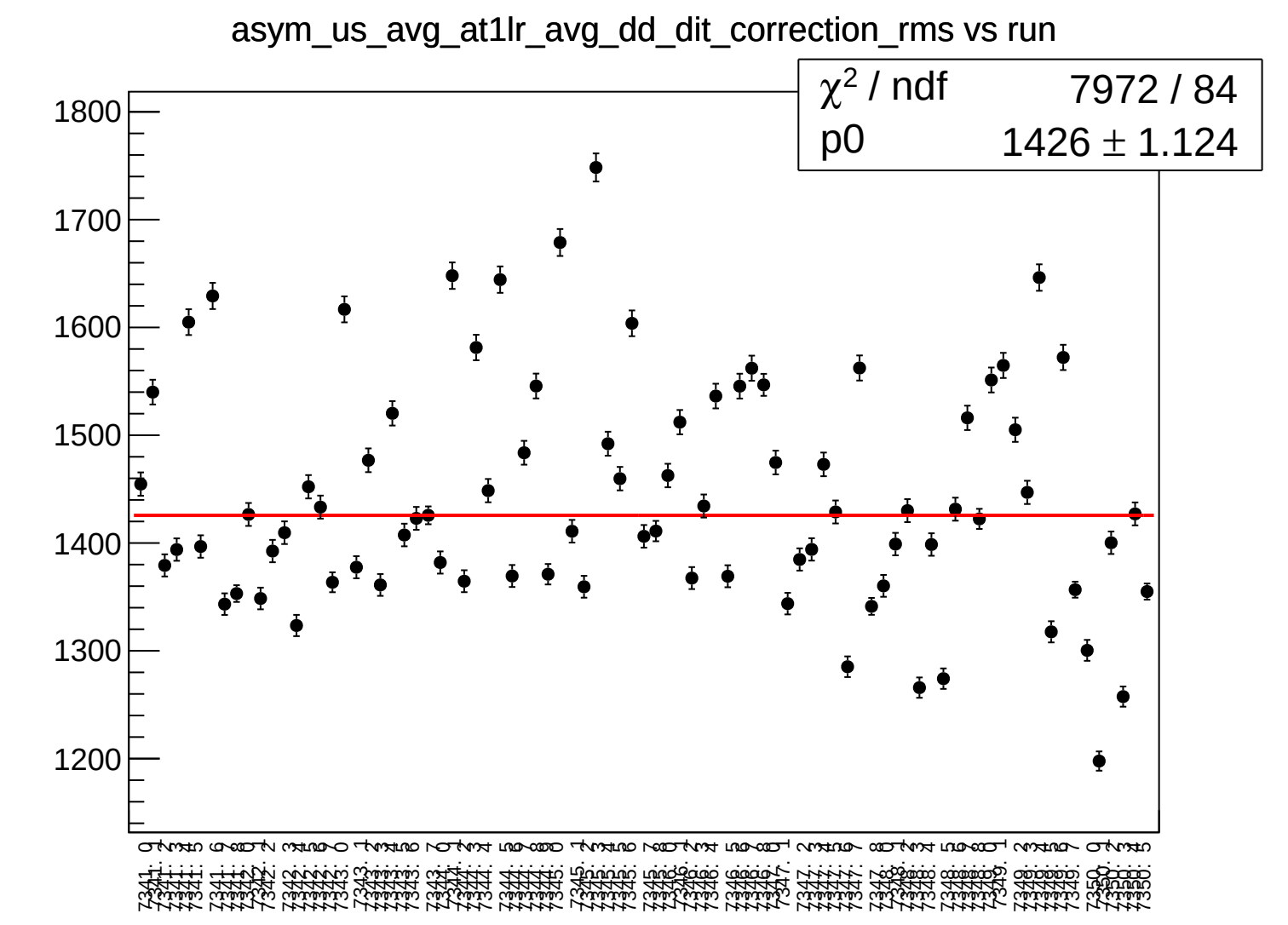

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7684 / 84
p0 1413 ± 1.114
1700
1600
1500
1400
1300
1200

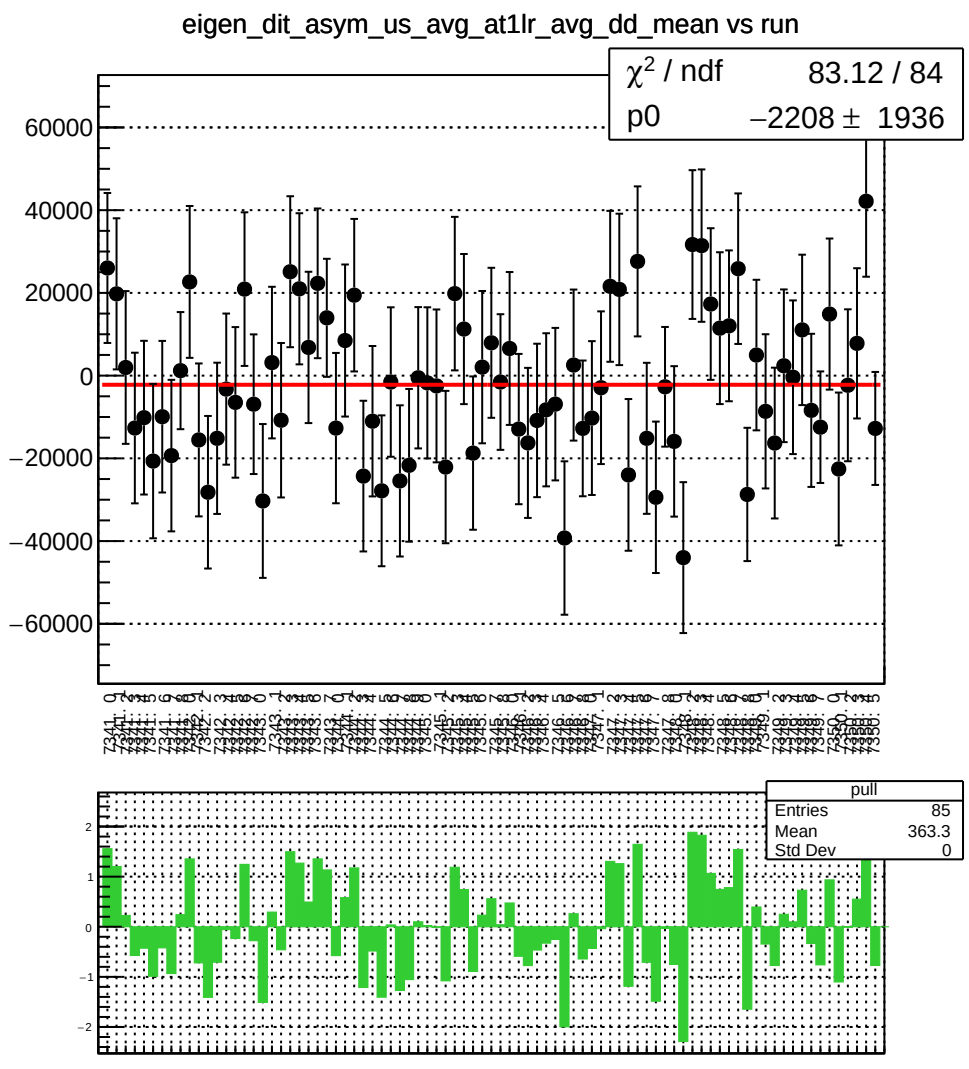

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 83.12 / 84
p0 −2208 ± 1936
pull
Entries 85
Mean 363.3
Std Dev 0

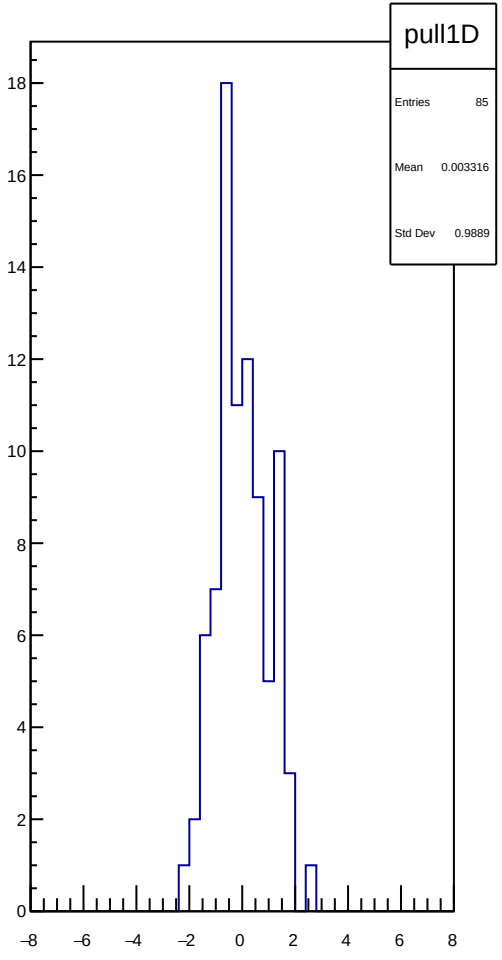

pull1D
Entries 85
Mean 0.003316
Std Dev 0.9889

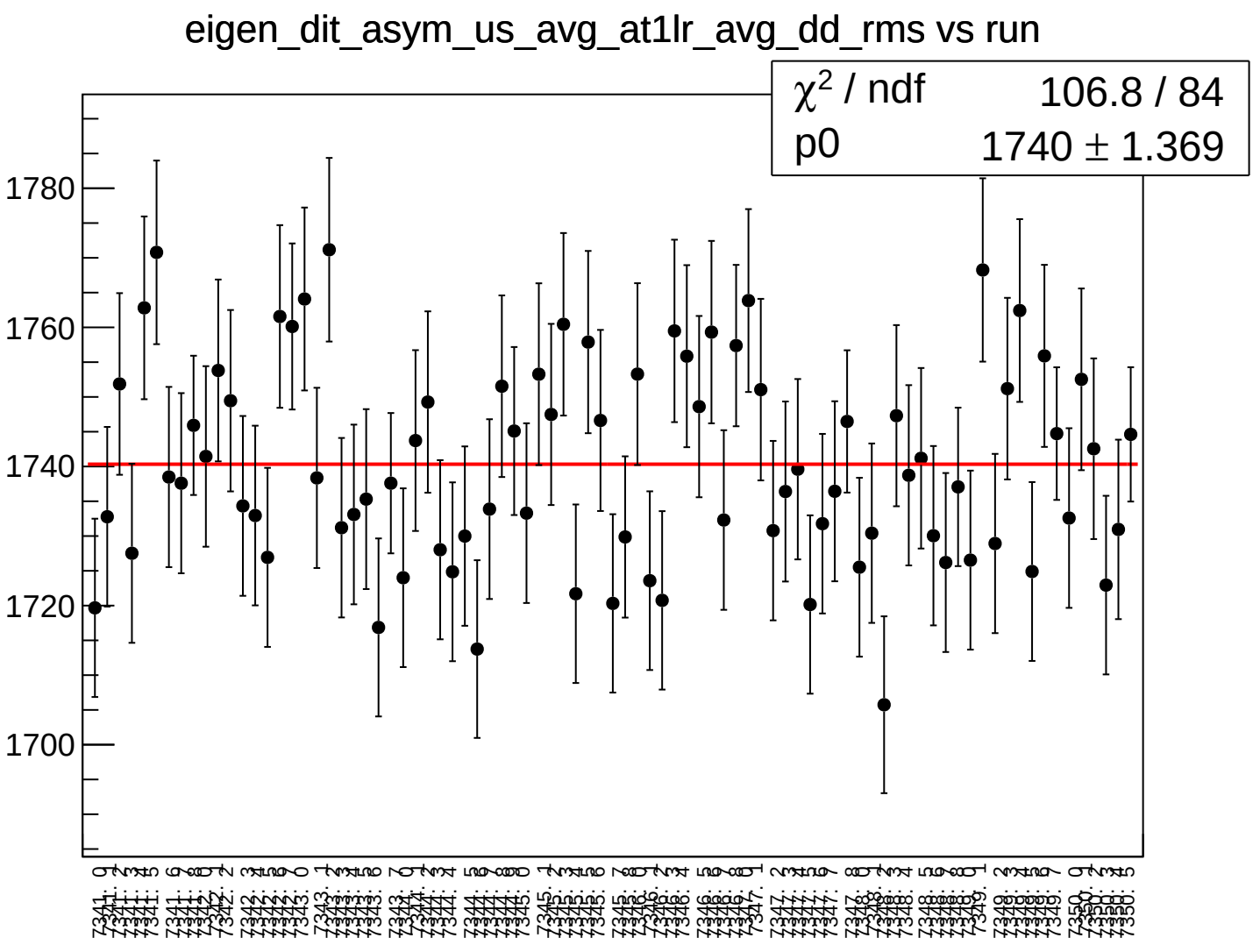

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 106.8 / 84
p0 1740 ± 1.369
1780
1760
1740
1720
1700

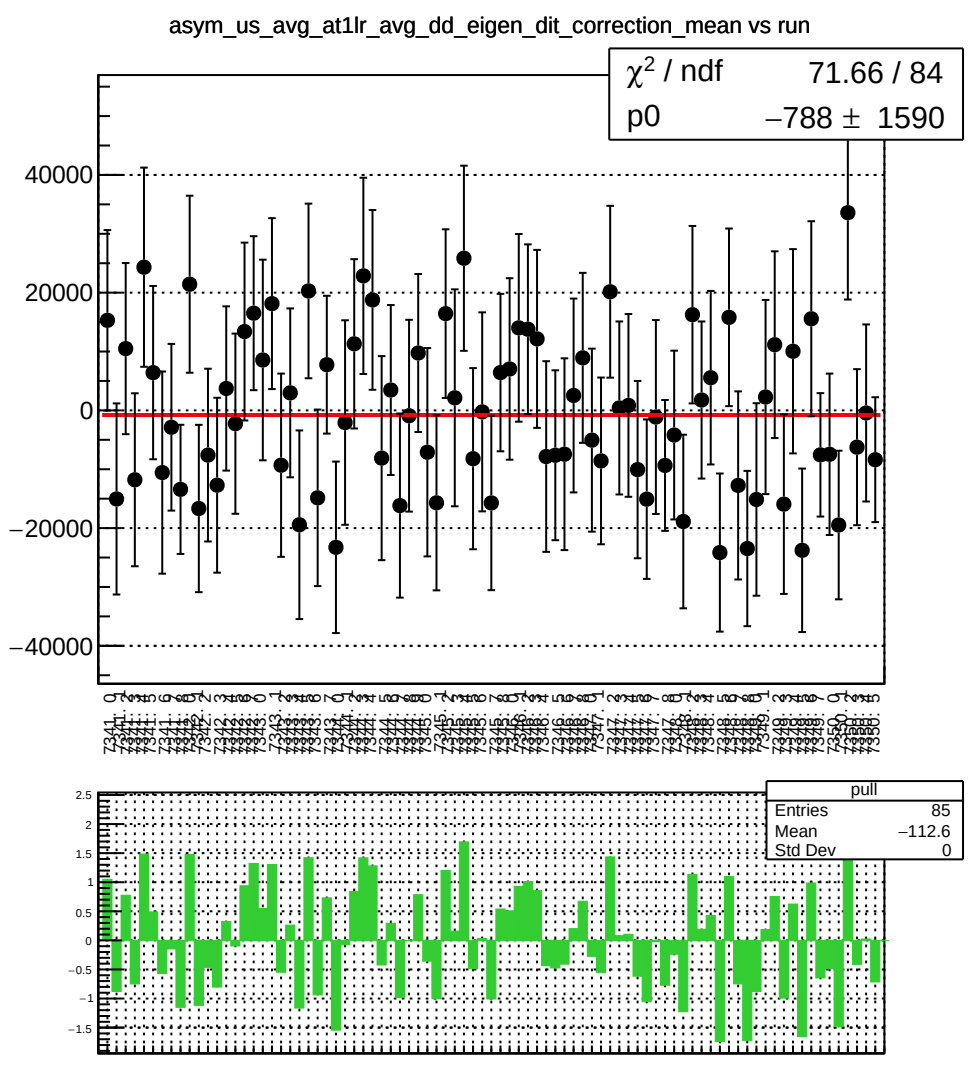

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 71.66 / 84
p0 −788 ± 1590
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −112.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean 0.02212
Std Dev 0.9179
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

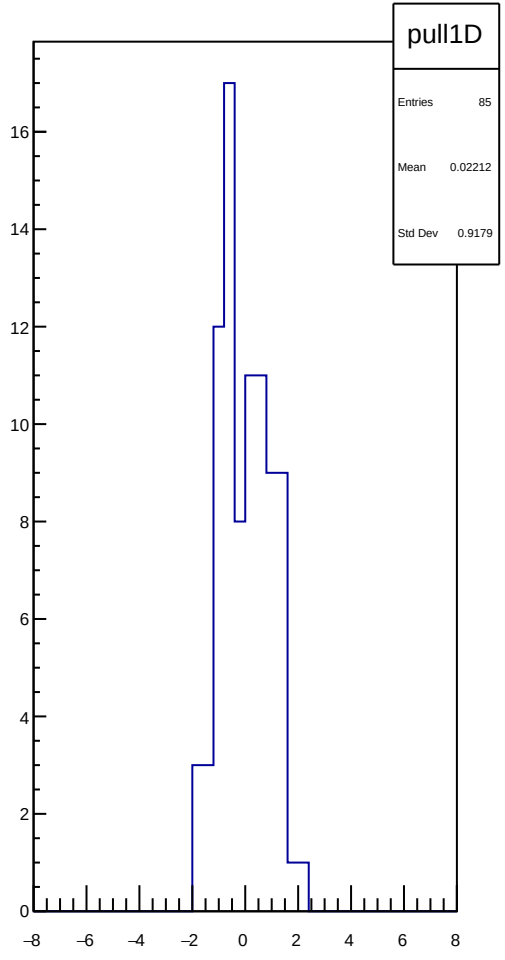

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 7972 / 84
p0 1426 ± 1.124
1800
1700
1600
1500
1400
1300
1200


eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 83.12 / 84
p0 −2208 ± 1936
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 363.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 85
Mean 0.003316
Std Dev 0.9889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 106.8 / 84
p0 1740 ± 1.369
1780
1760
1740
1720
1700


asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.66 / 84
p0 −788 ± 1590
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −112.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 85
Mean 0.02212
Std Dev 0.9179
16
14
12
10
8
6
4
2
0
−8
−6
−4
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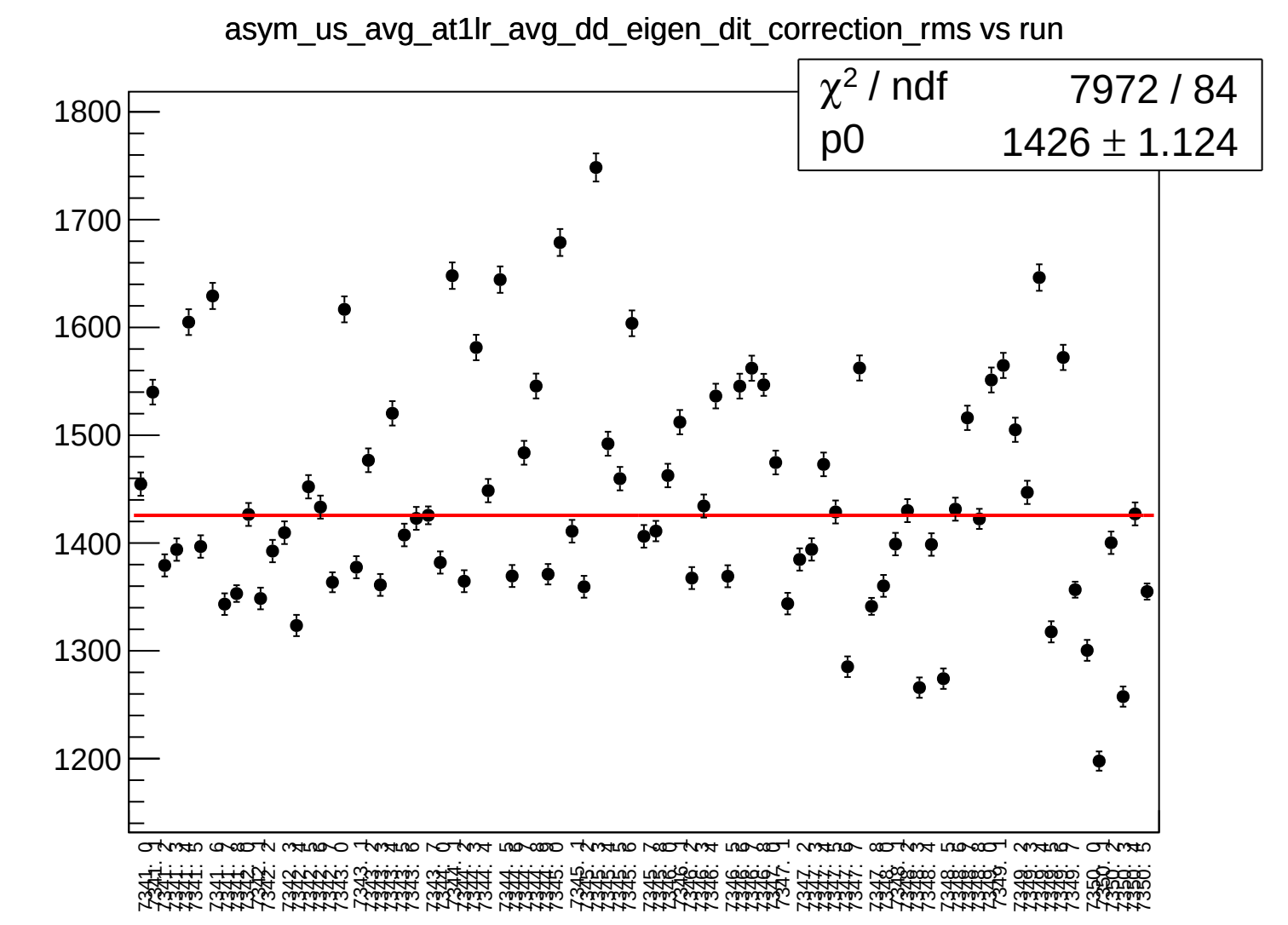
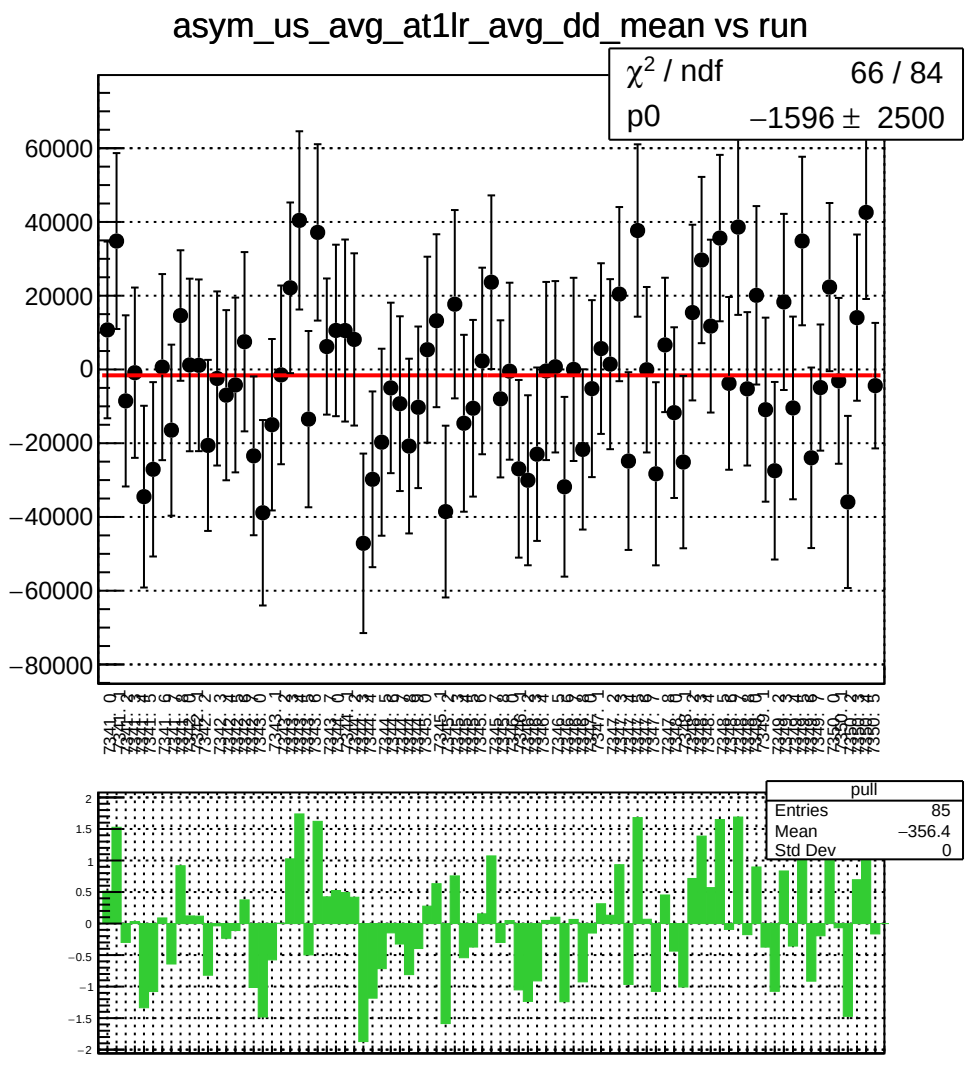
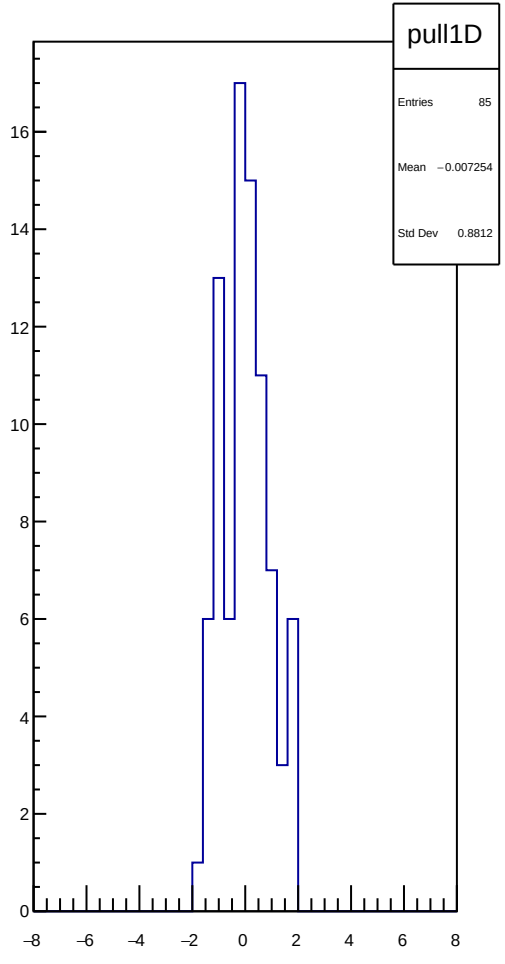
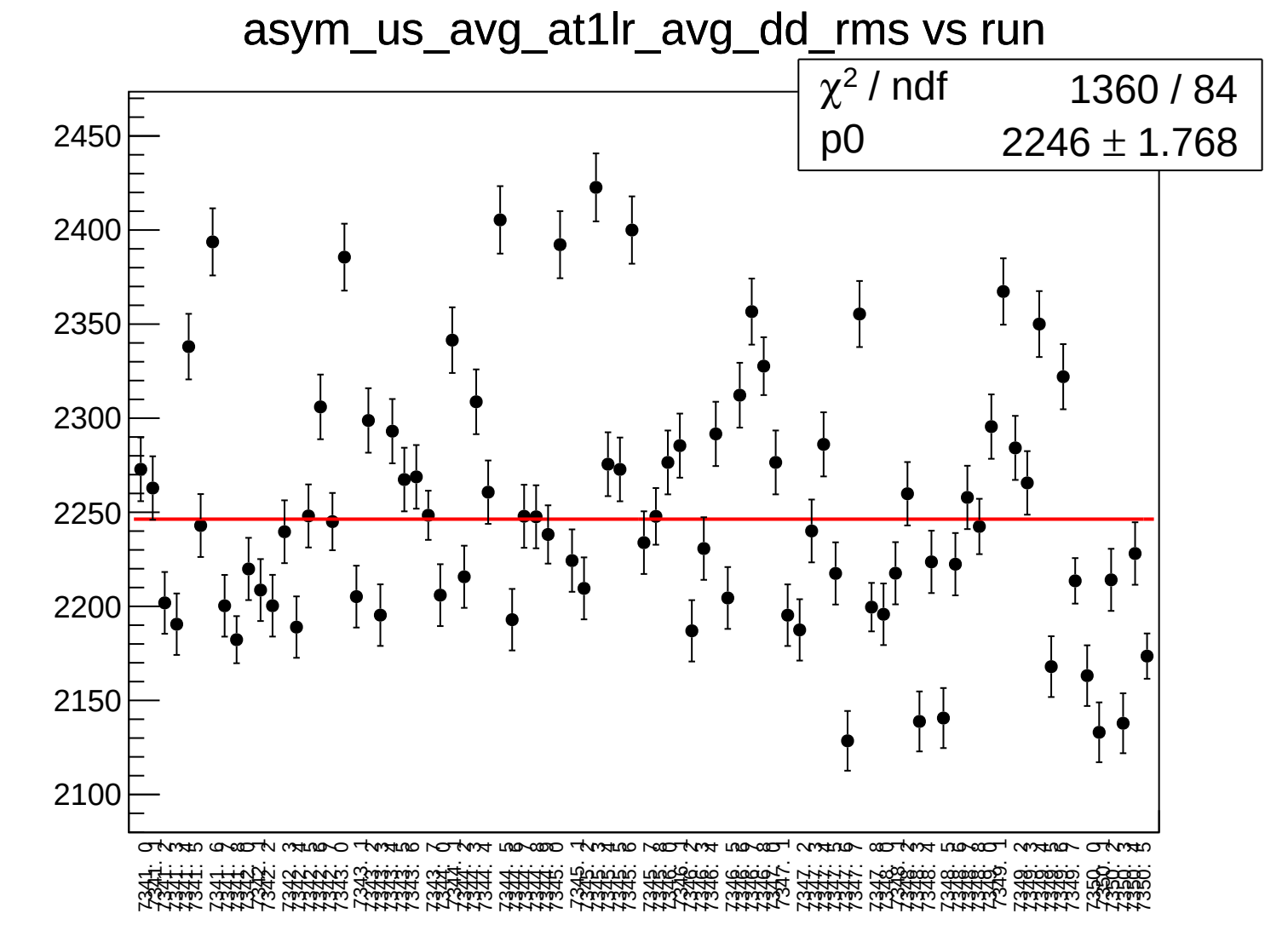
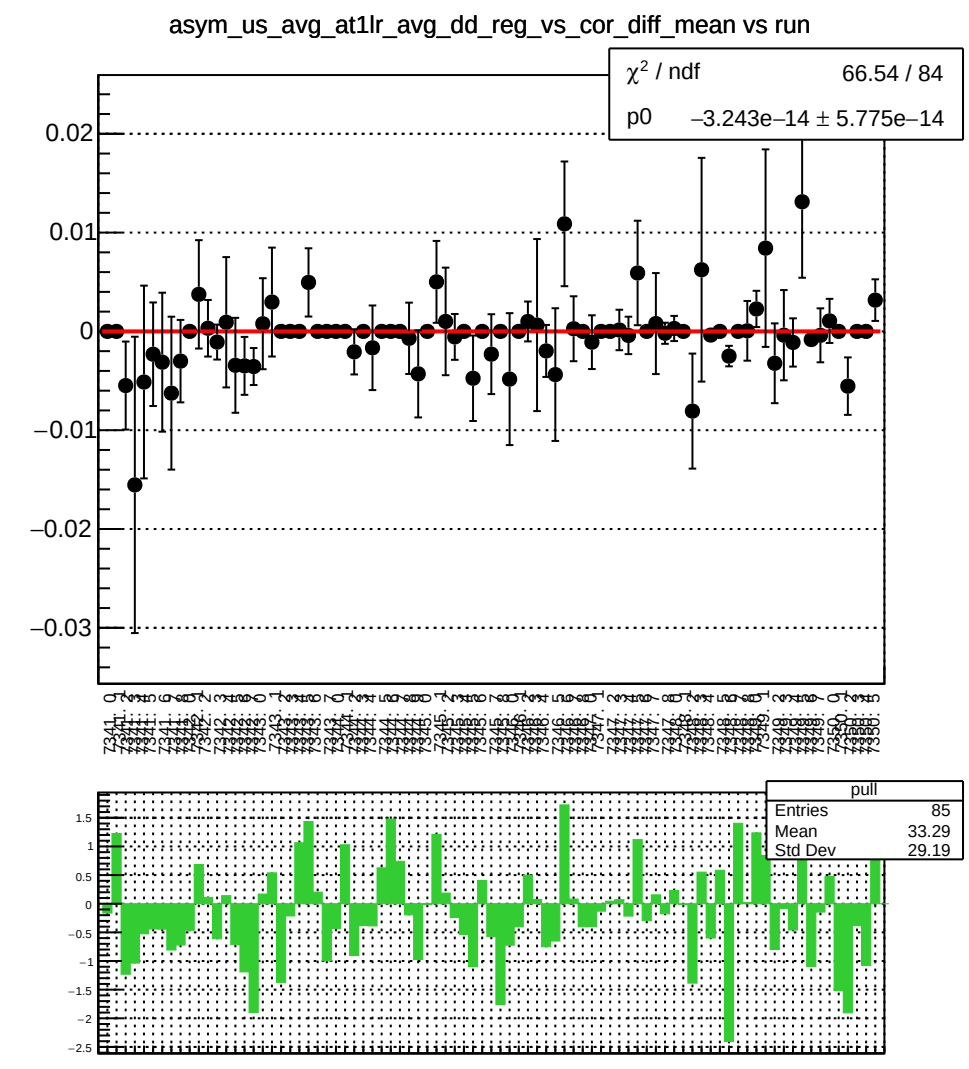
0
2
4
6
8

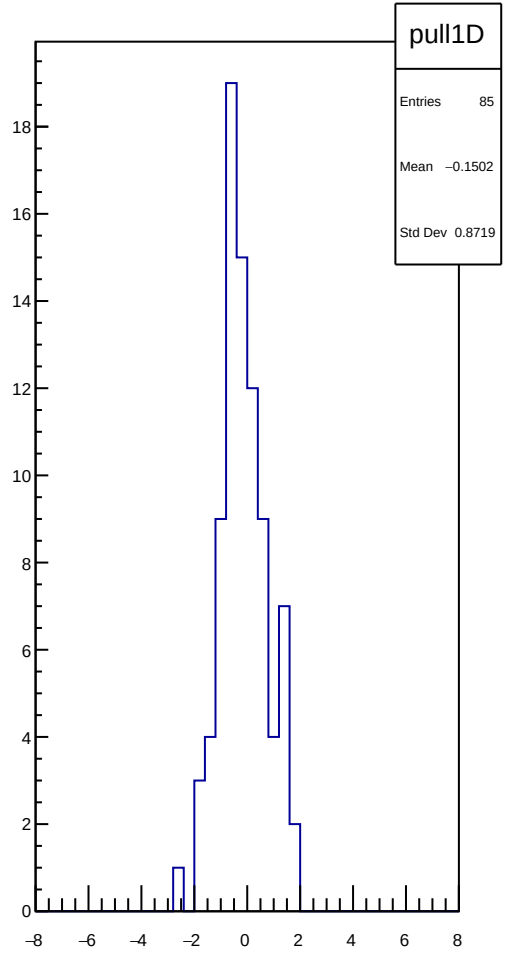

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7972 / 84
p0 1426 ± 1.124
1800
1700
1600
1500
1400
1300
1200

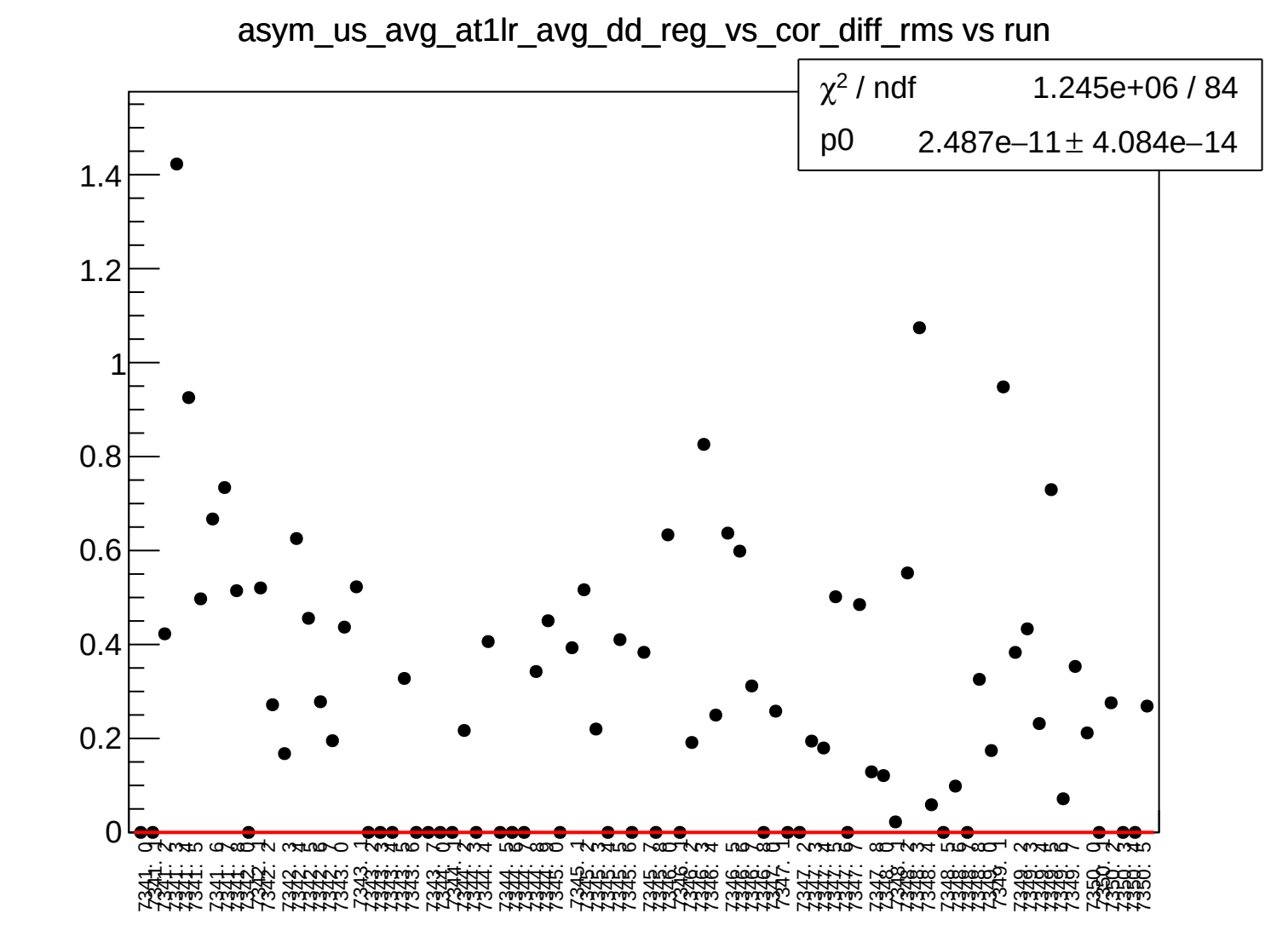

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 66 / 84
p0 −1596 ± 2500
pull
Entries 85
Mean −356.4
Std Dev 0

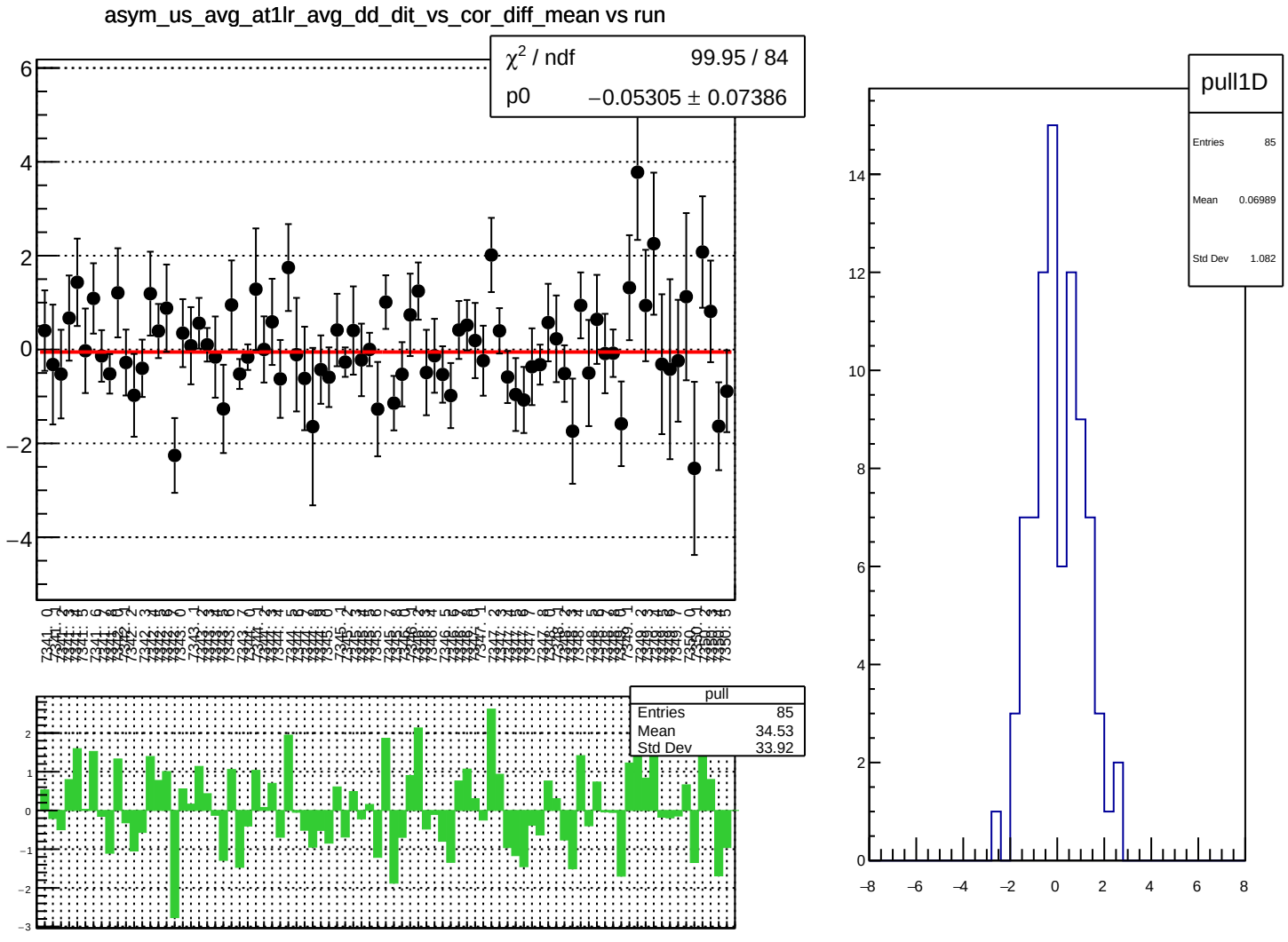

pull1D
Entries 85
Mean −0.007254
Std Dev 0.8812

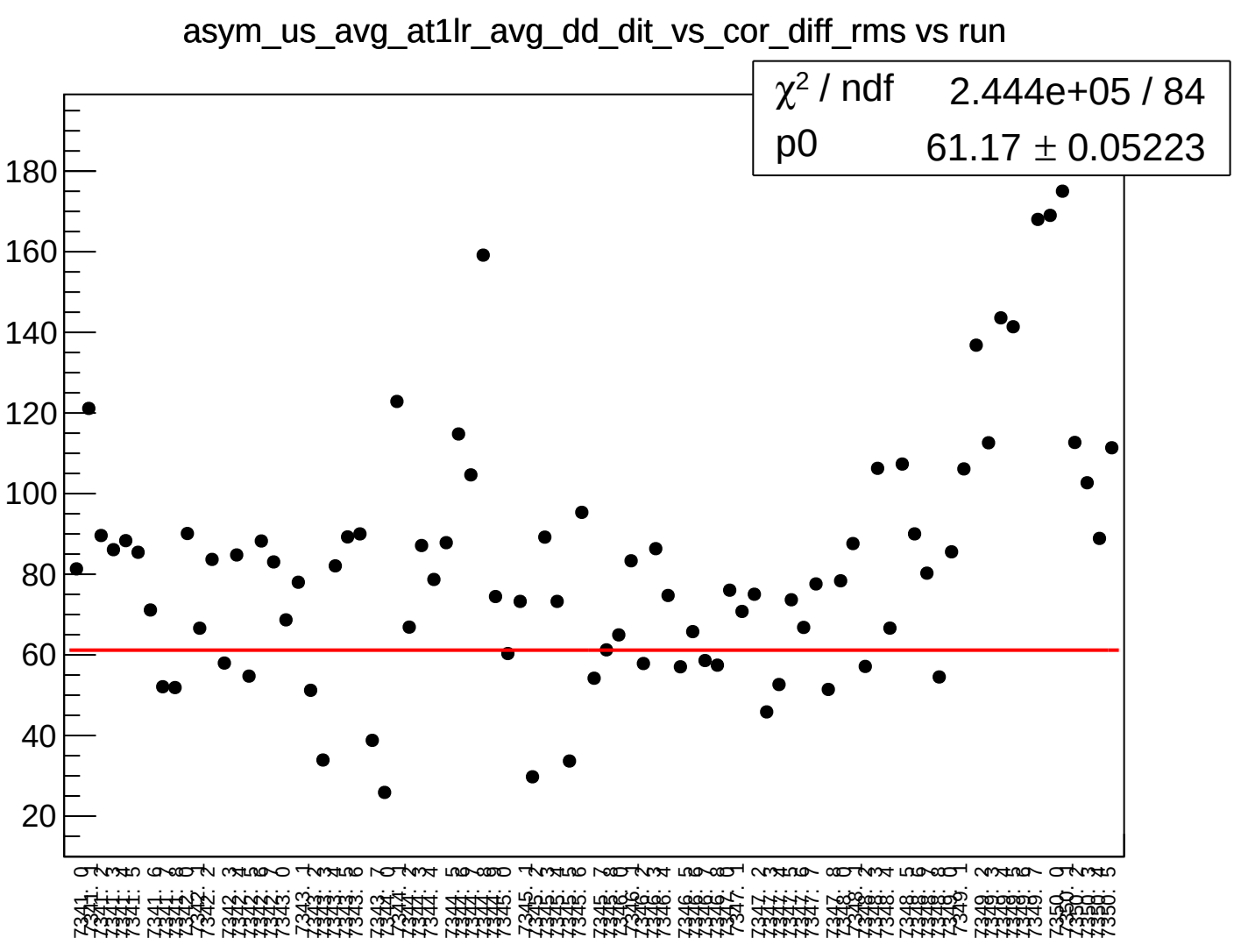

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1360 / 84
p0 2246 ± 1.768
2450
2400
2350
2300
2250
2200
2150
2100

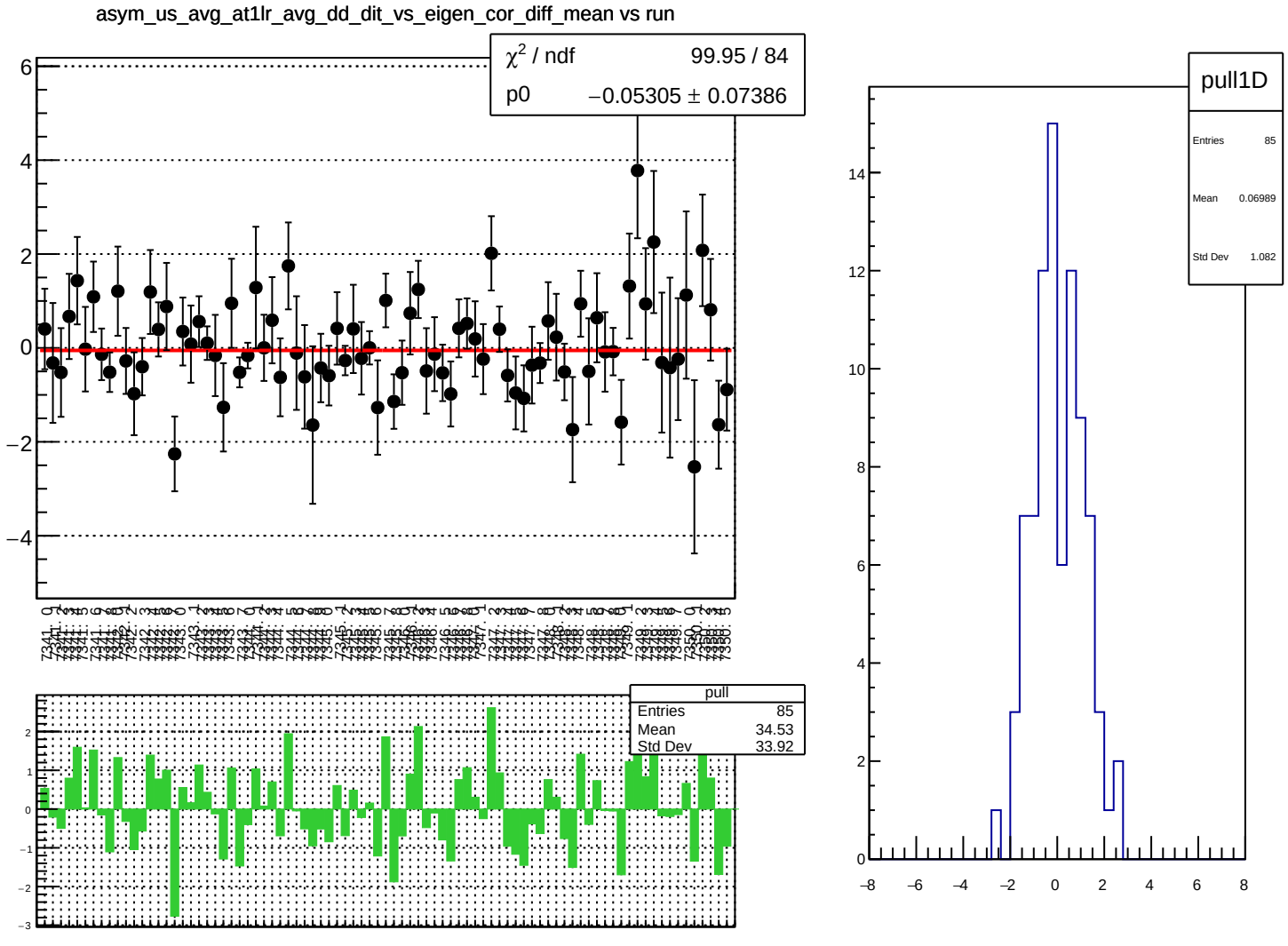

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.54 / 84
p0 −3.243e−14 ± 5.775e−14
pull
Entries 85
Mean 33.29
Std Dev 29.19

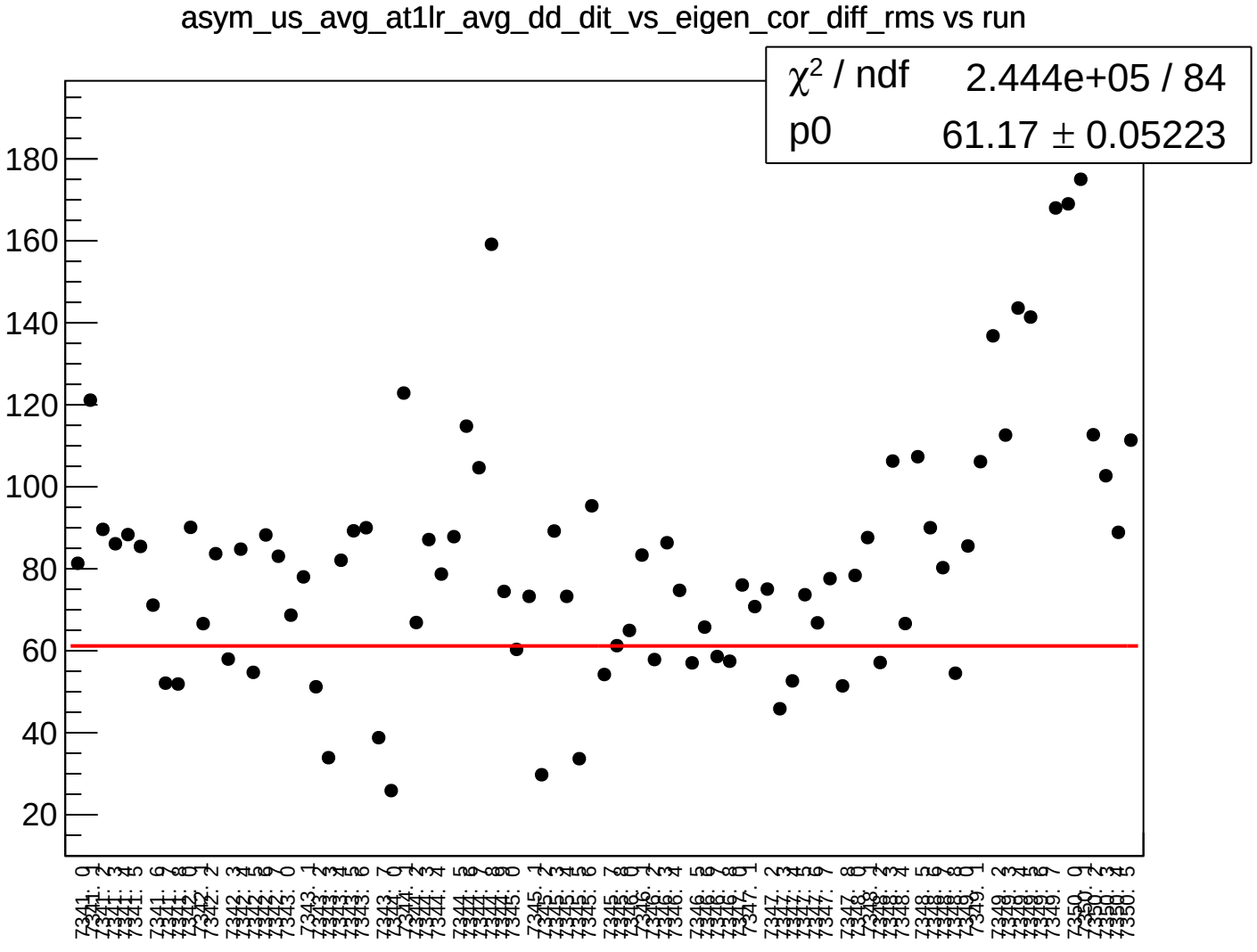

pull1D
Entries 85
Mean −0.1502
Std Dev 0.8719

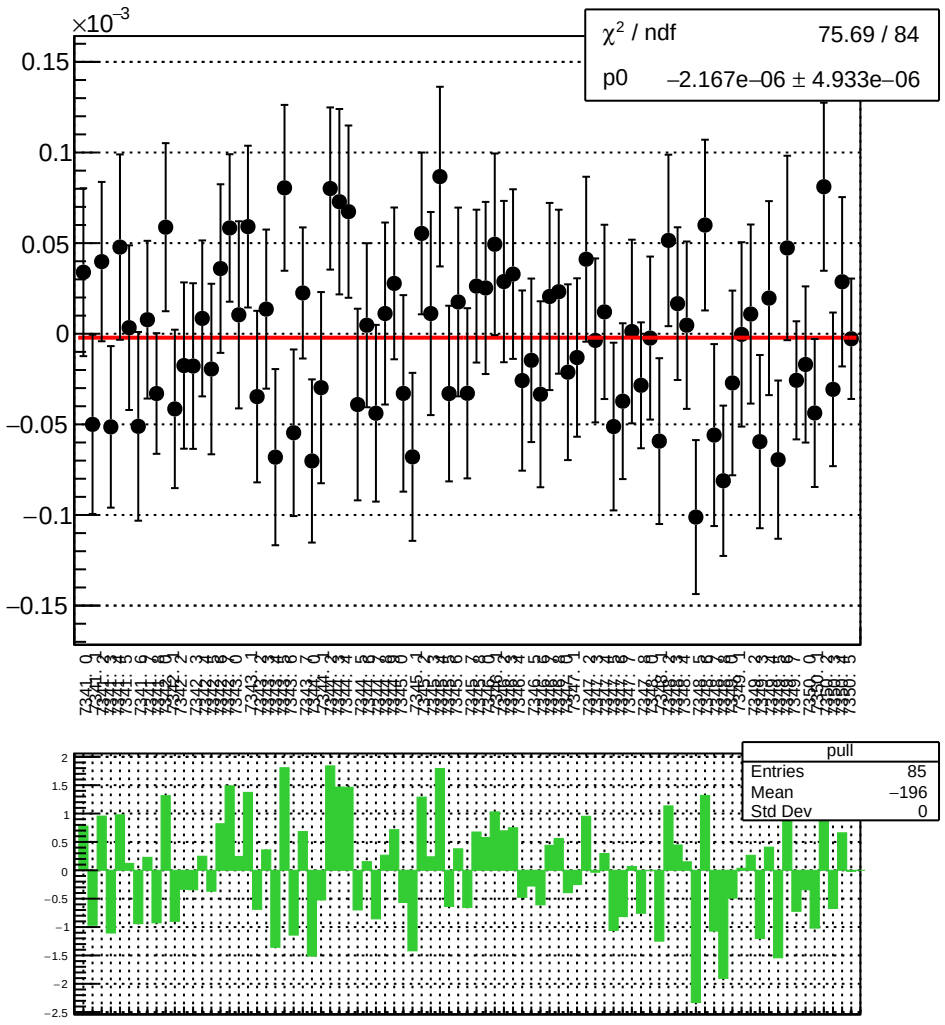

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.245e+06 / 84
p0 2.487e−11 ± 4.084e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

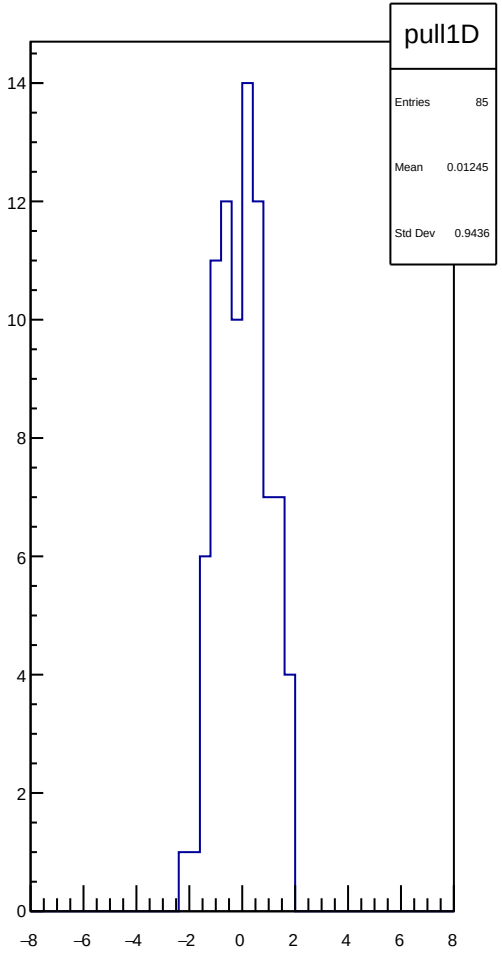

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.95 / 84
p0 −0.05305 ± 0.07386
pull
Entries 85
Mean 34.53
Std Dev 33.92
pull1D
Entries 85
Mean 0.06989
Std Dev 1.082

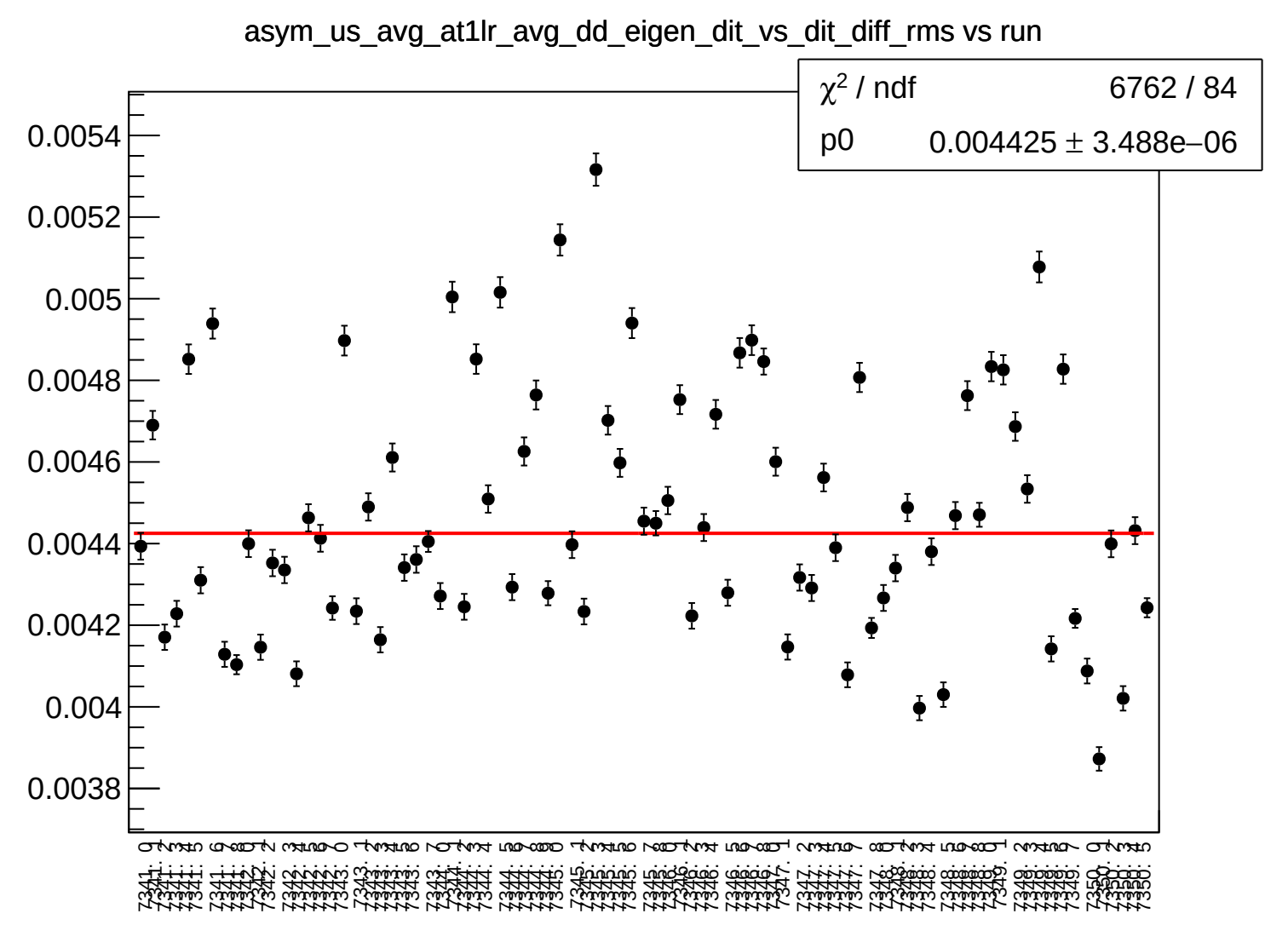

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.444e+05 / 84
p0 61.17 ± 0.05223
180
160
140
120
100
80
60
40
20

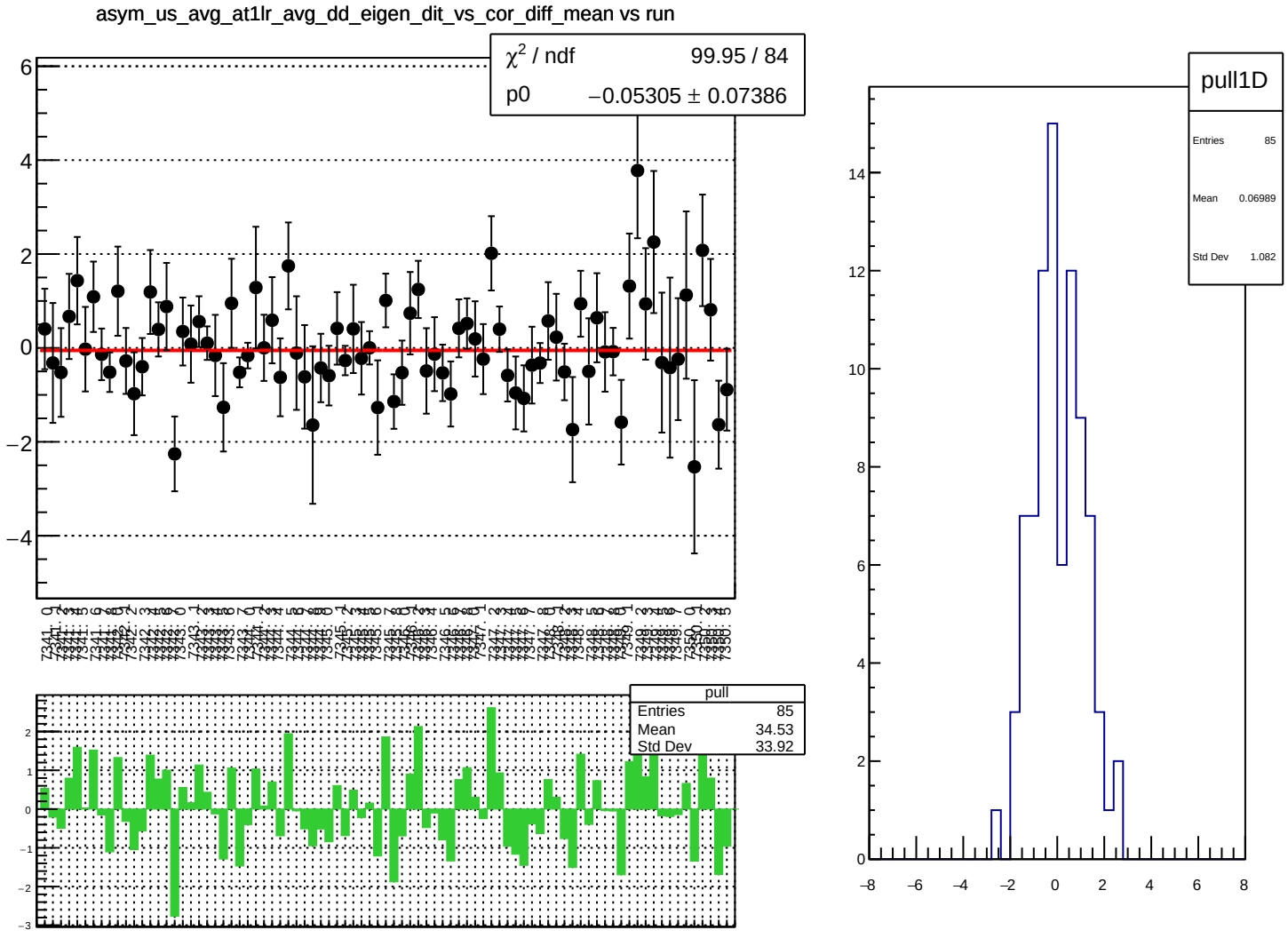

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.95 / 84
p0 −0.05305 ± 0.07386
pull
Entries 85
Mean 34.53
Std Dev 33.92
pull1D
Entries 85
Mean 0.06989
Std Dev 1.082

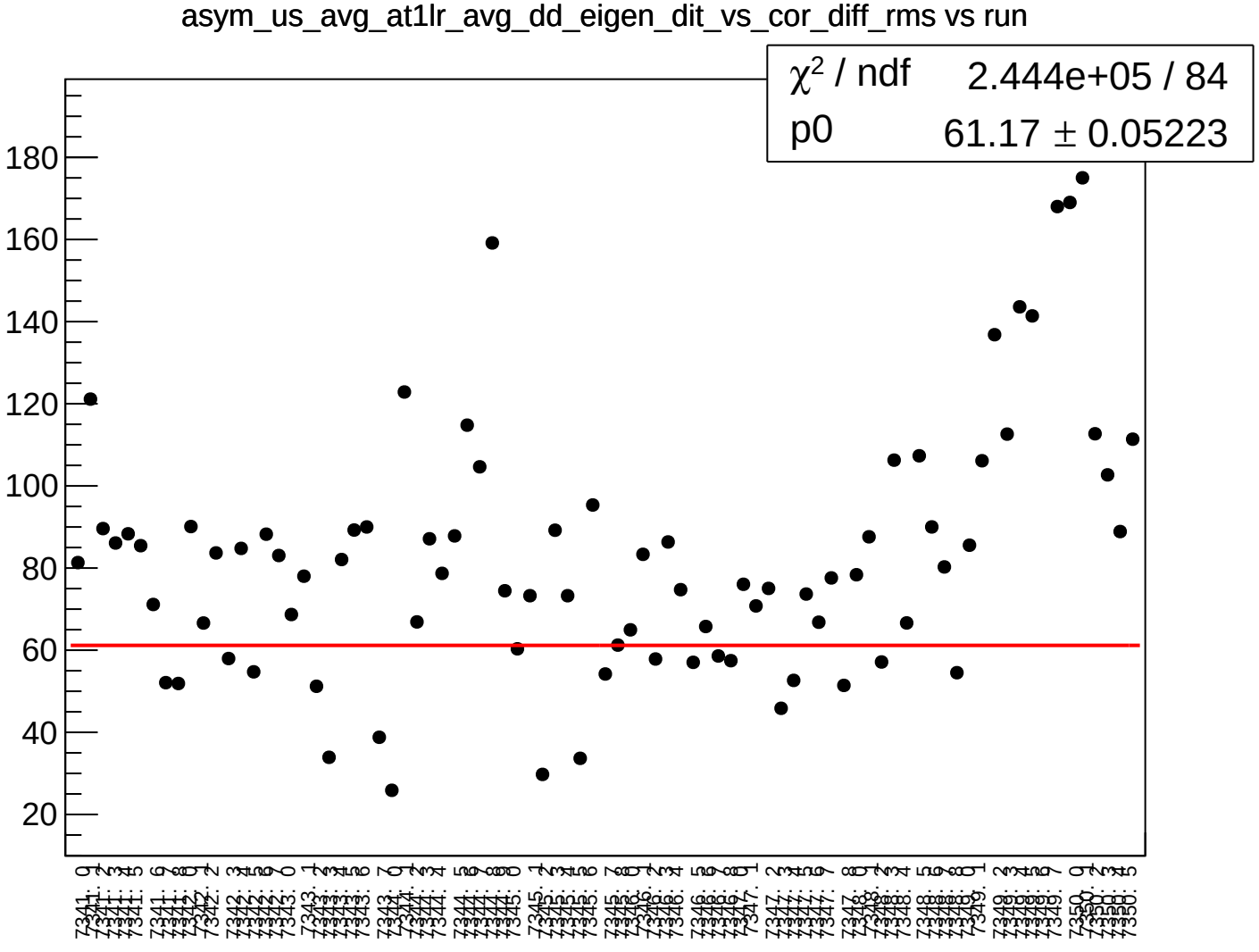

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.444e+05 / 84
p0 61.17 ± 0.05223
180
160
140
120
100
80
60
40
20


asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.69 / 84
p0 −2.167e−06 ± 4.933e−06
pull
Entries 85
Mean −196
Std Dev 0

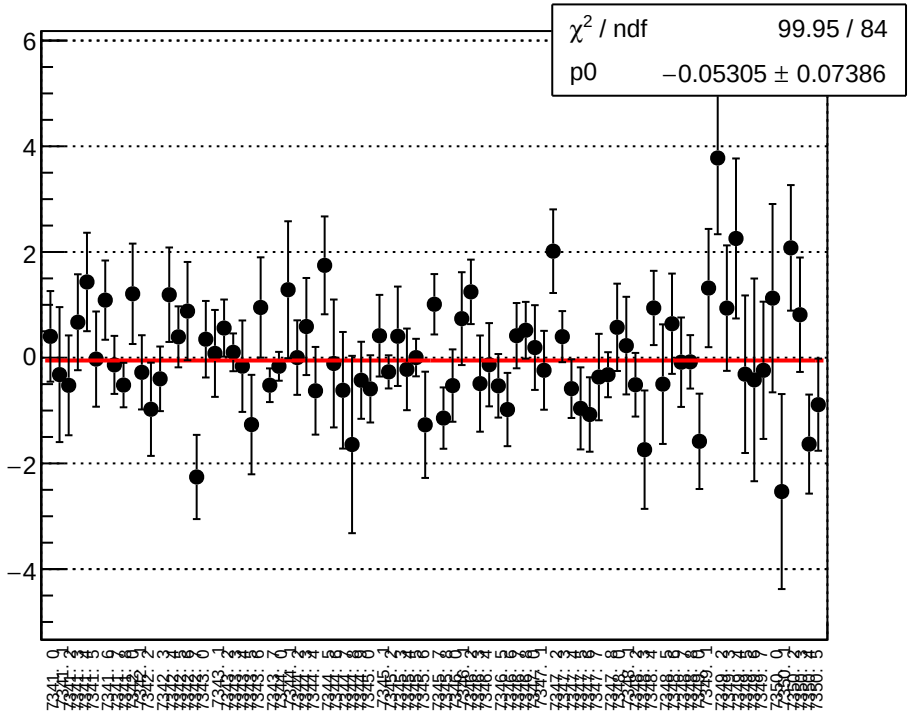

pull1D
Entries 85
Mean 0.01245
Std Dev 0.9436

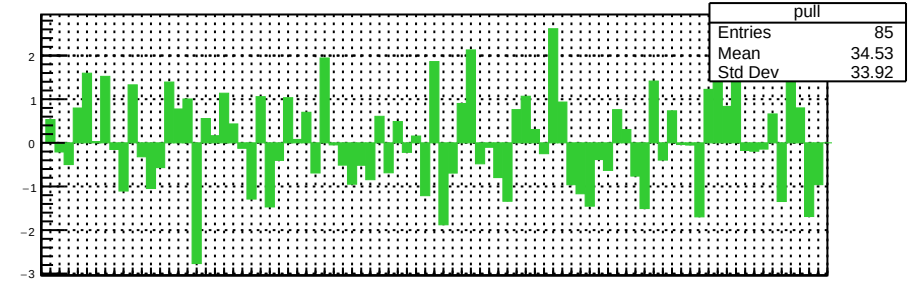

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6762 / 84
p0 0.004425 ± 3.488e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

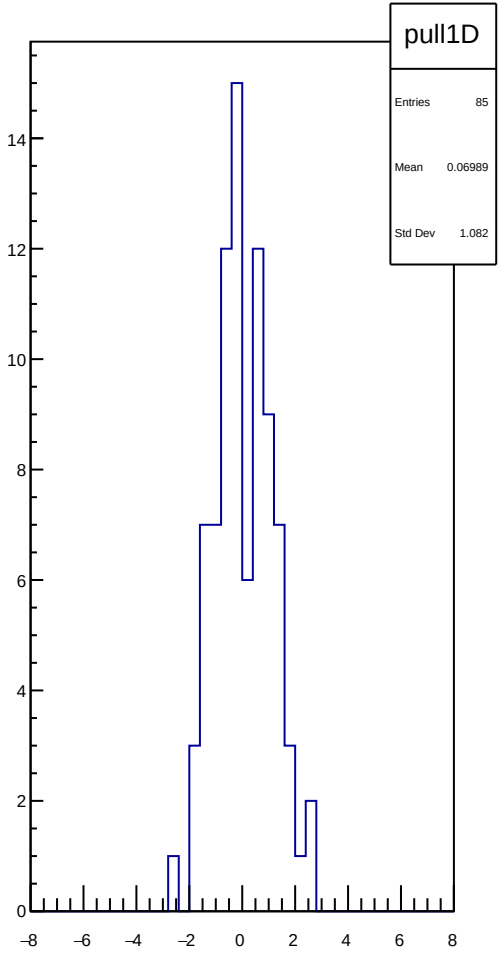

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.95 / 84
p0 −0.05305 ± 0.07386
pull
Entries 85
Mean 34.53
Std Dev 33.92
pull1D
Entries 85
Mean 0.06989
Std Dev 1.082

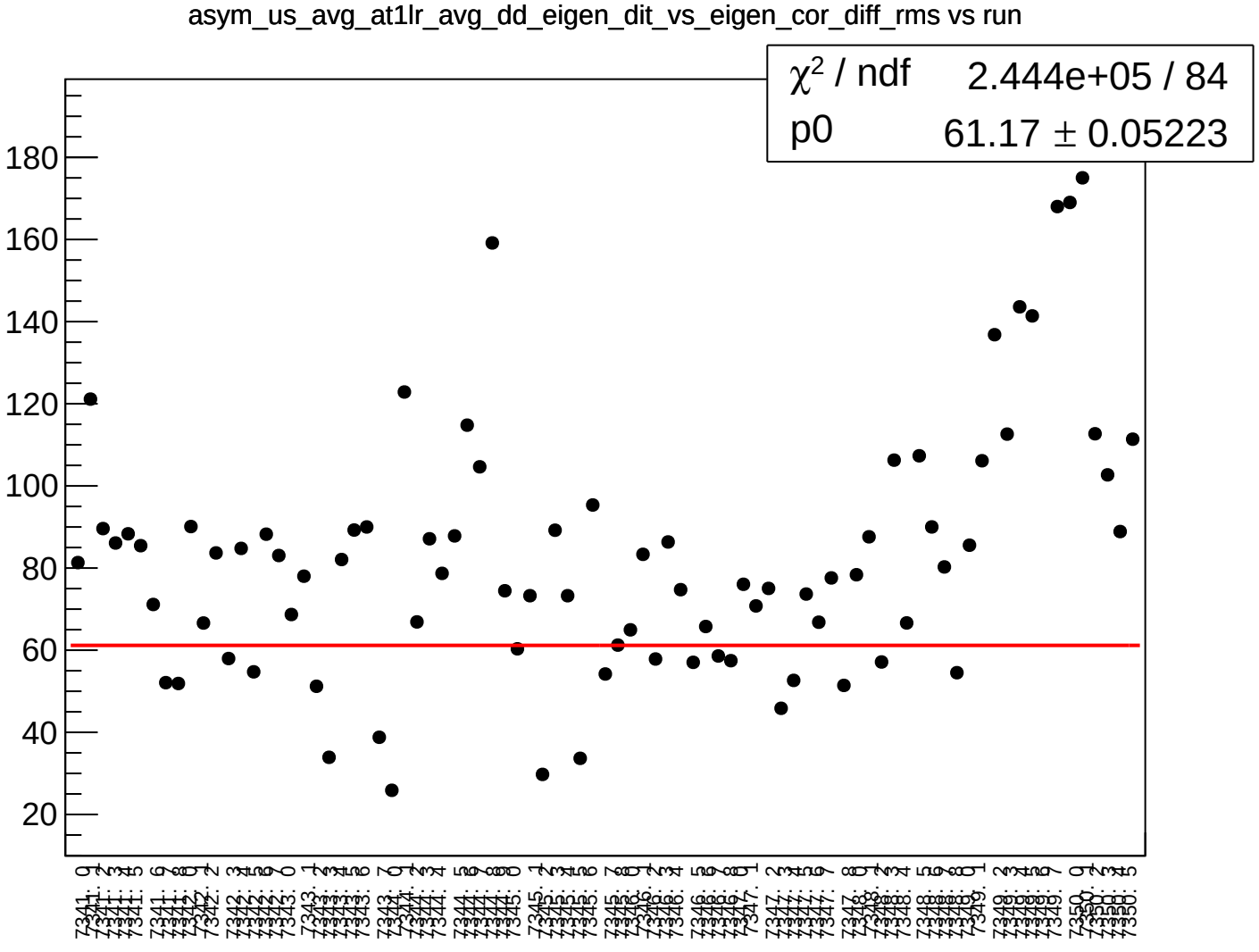

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.444e+05 / 84
p0 61.17 ± 0.05223
180
160
140
120
100
80
60
40
20

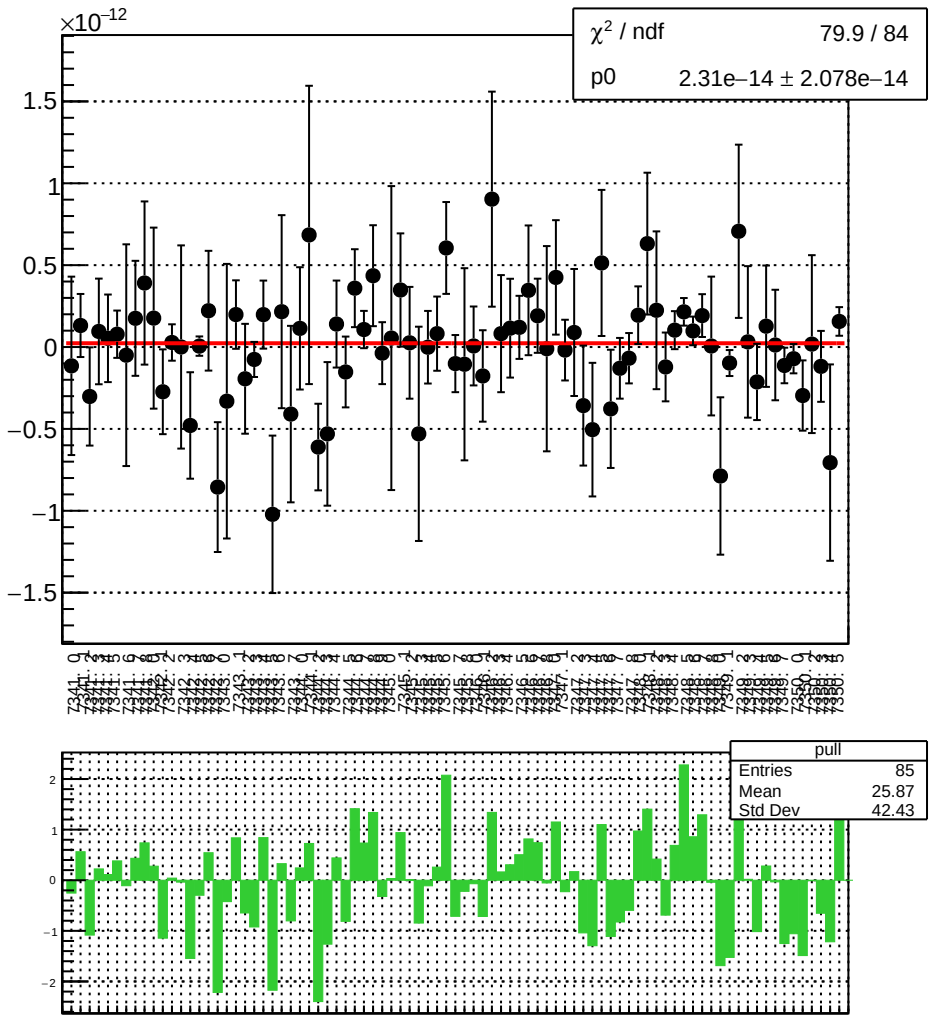
asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

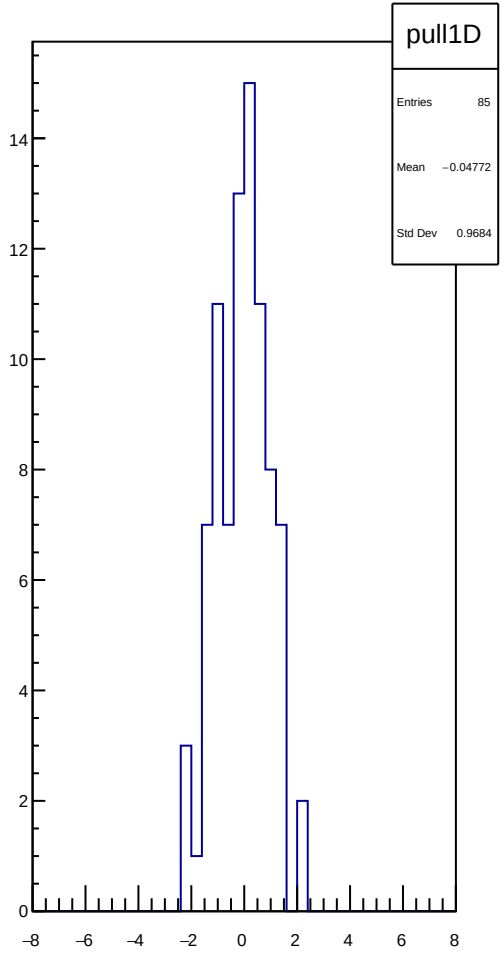


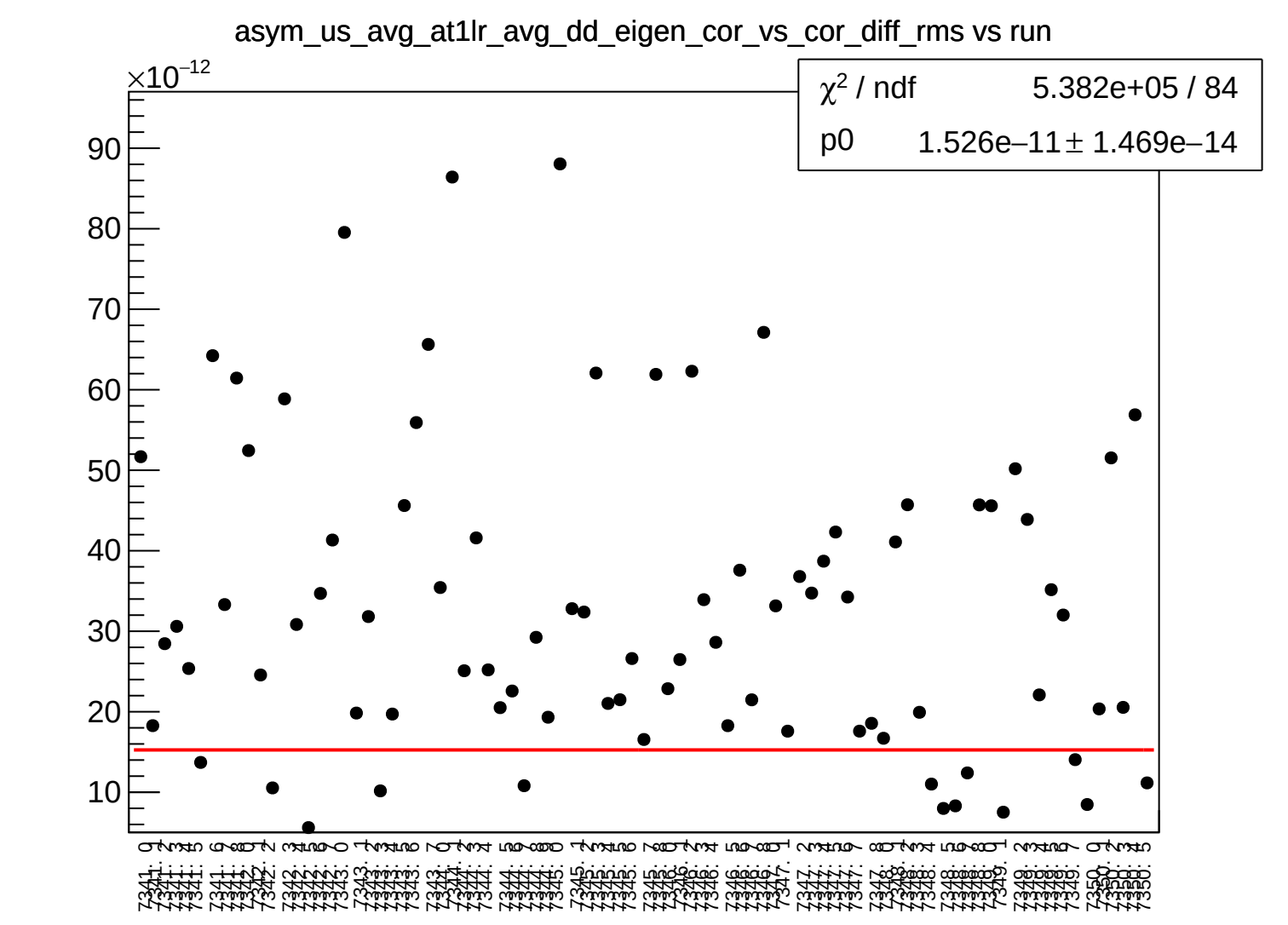


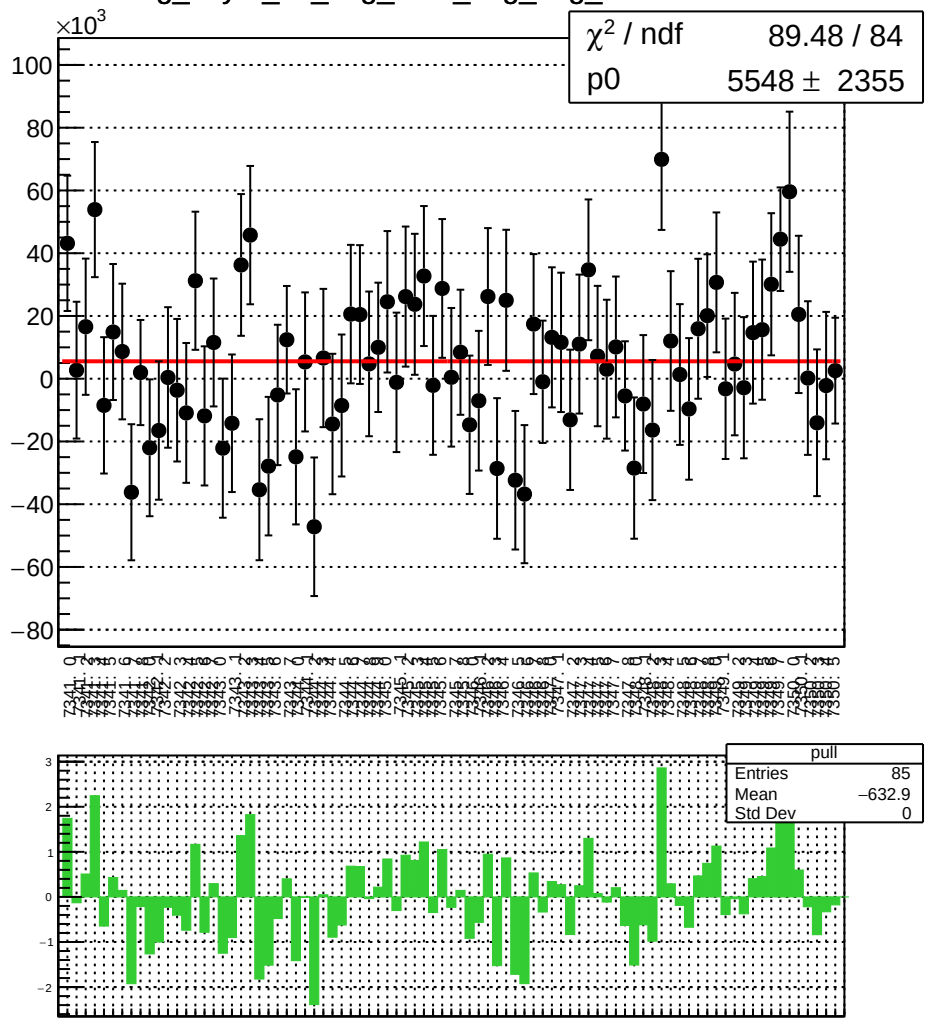


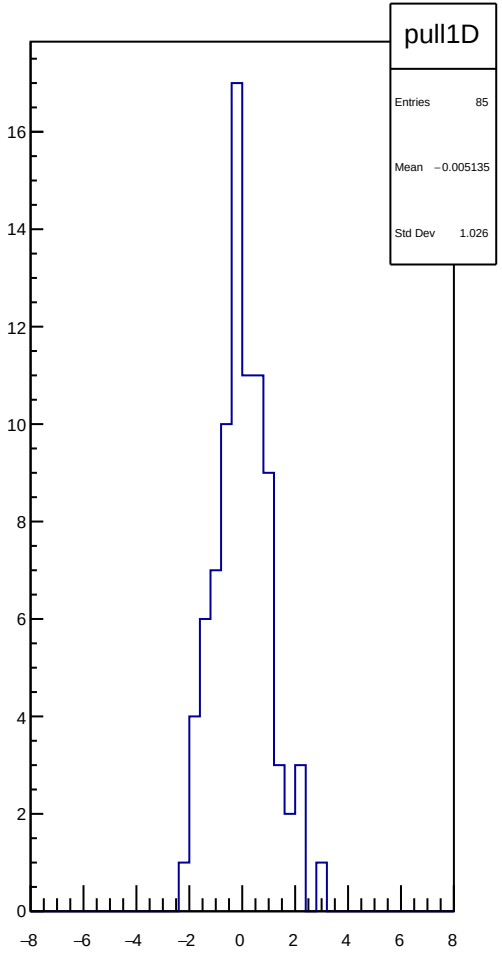

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.444e+05 / 84
p0 61.17 ± 0.05223
180
160
140
120
100
80
60
40
20

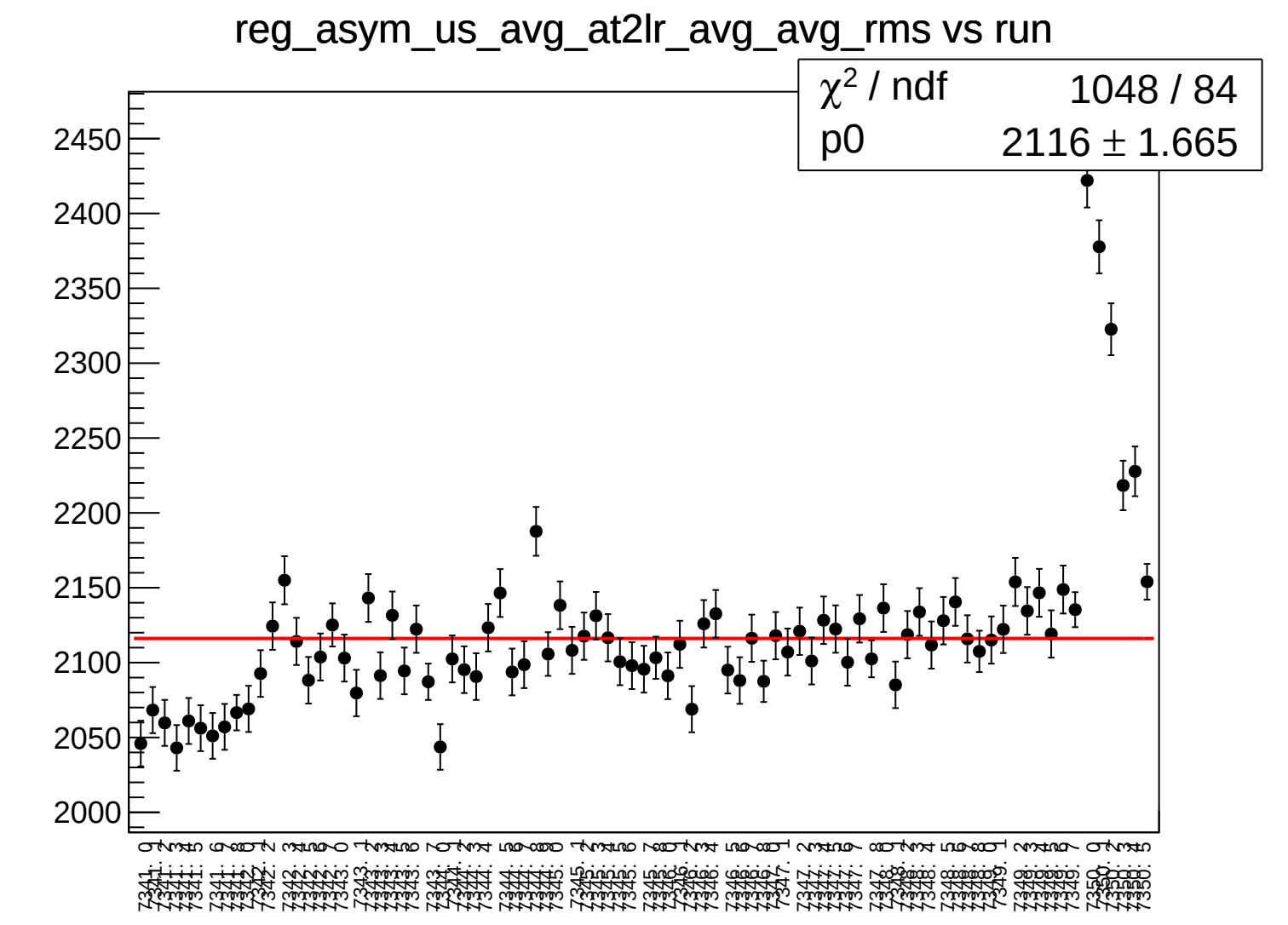

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.9 / 84
p0 2.31e−14 ± 2.078e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 85
Mean 25.87
Std Dev 42.43
2
1
0
−1
−2

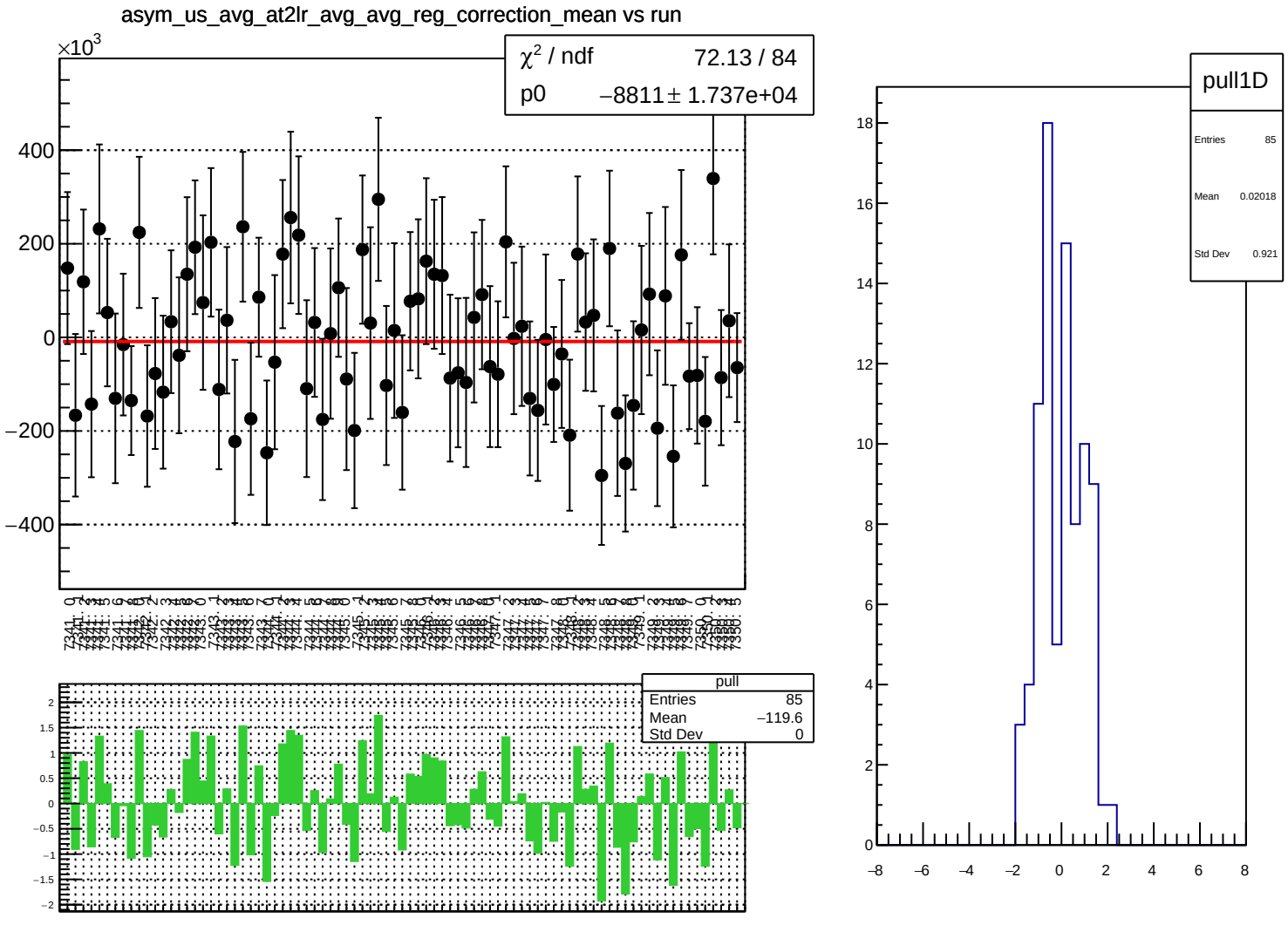

pull1D
Entries 85
Mean −0.04772
Std Dev 0.9684
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

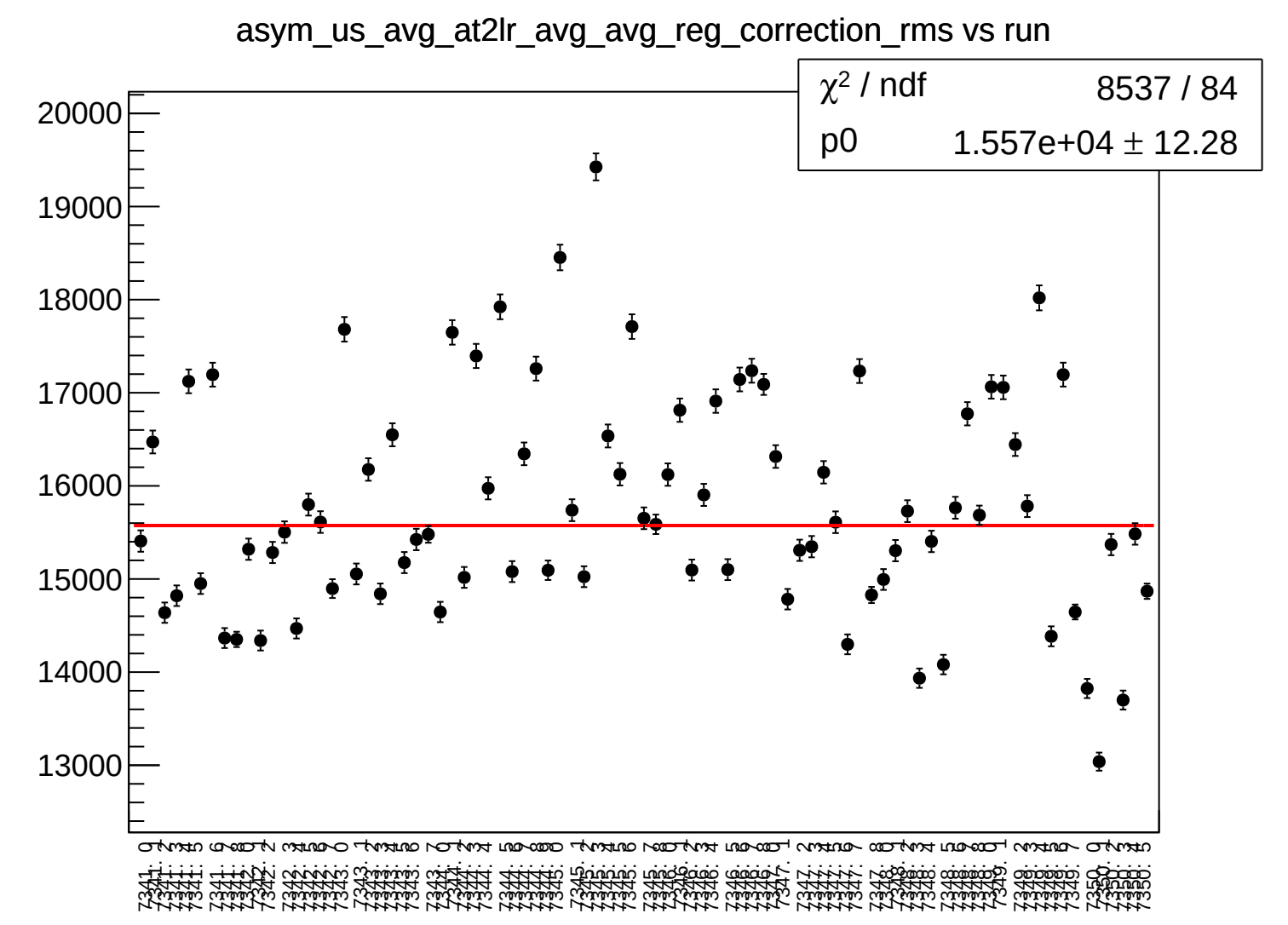

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.382e+05 / 84
p0 1.526e−11 ± 1.469e−14
90
80
70
60
50
40
30
20
10

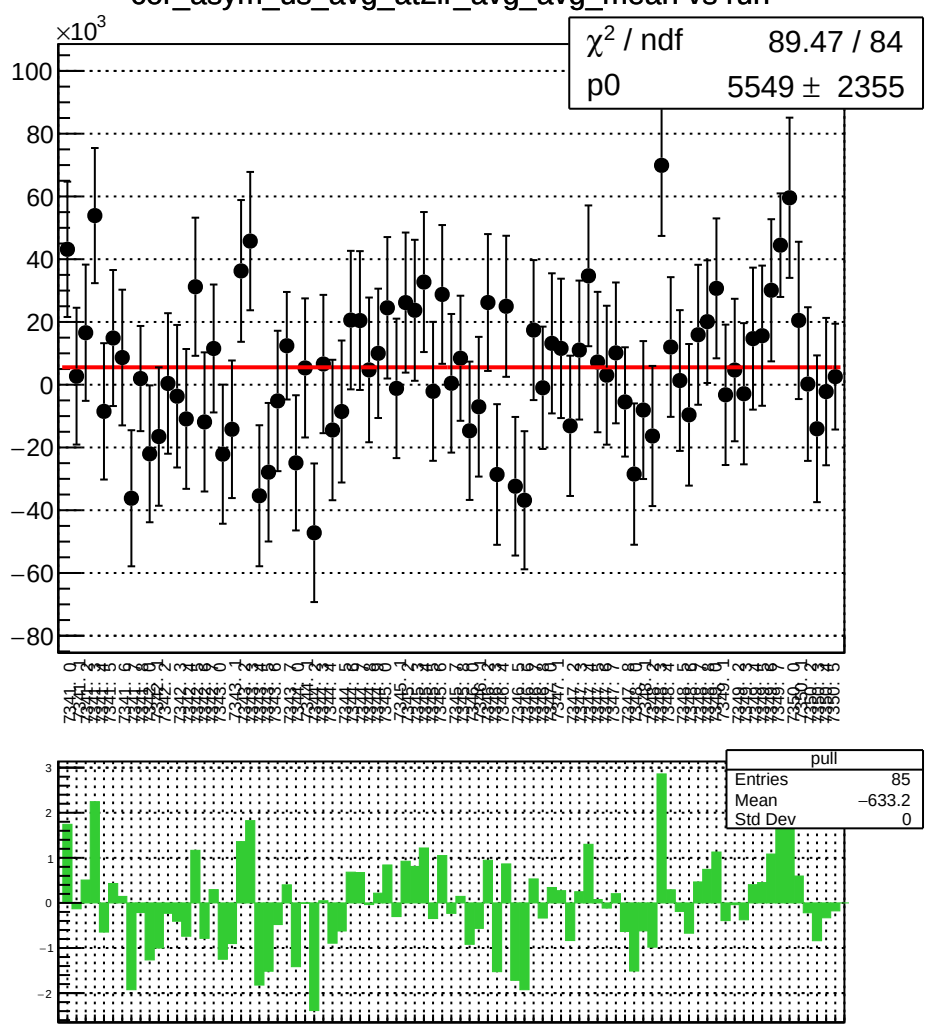

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 89.48 / 84
p0 5548 ± 2355
×10³
pull
Entries 85
Mean −632.9
Std Dev 0

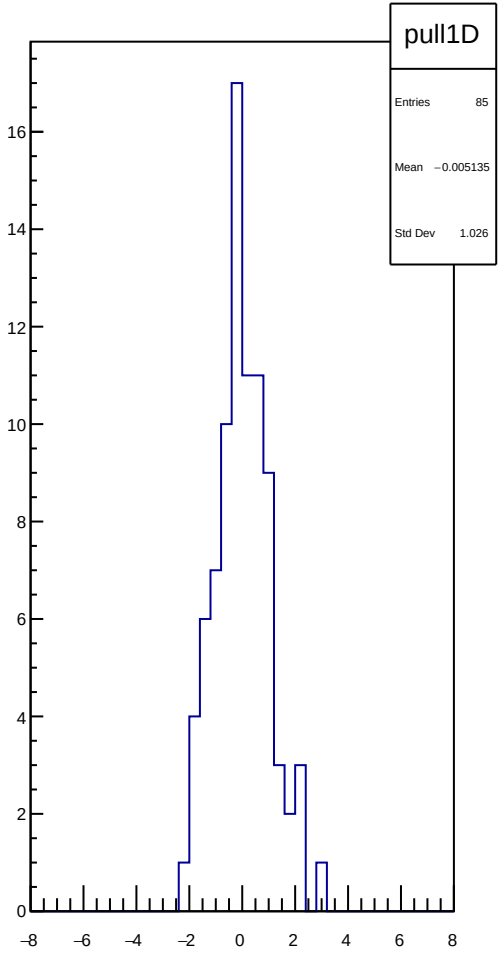

pull1D
Entries 85
Mean −0.005135
Std Dev 1.026

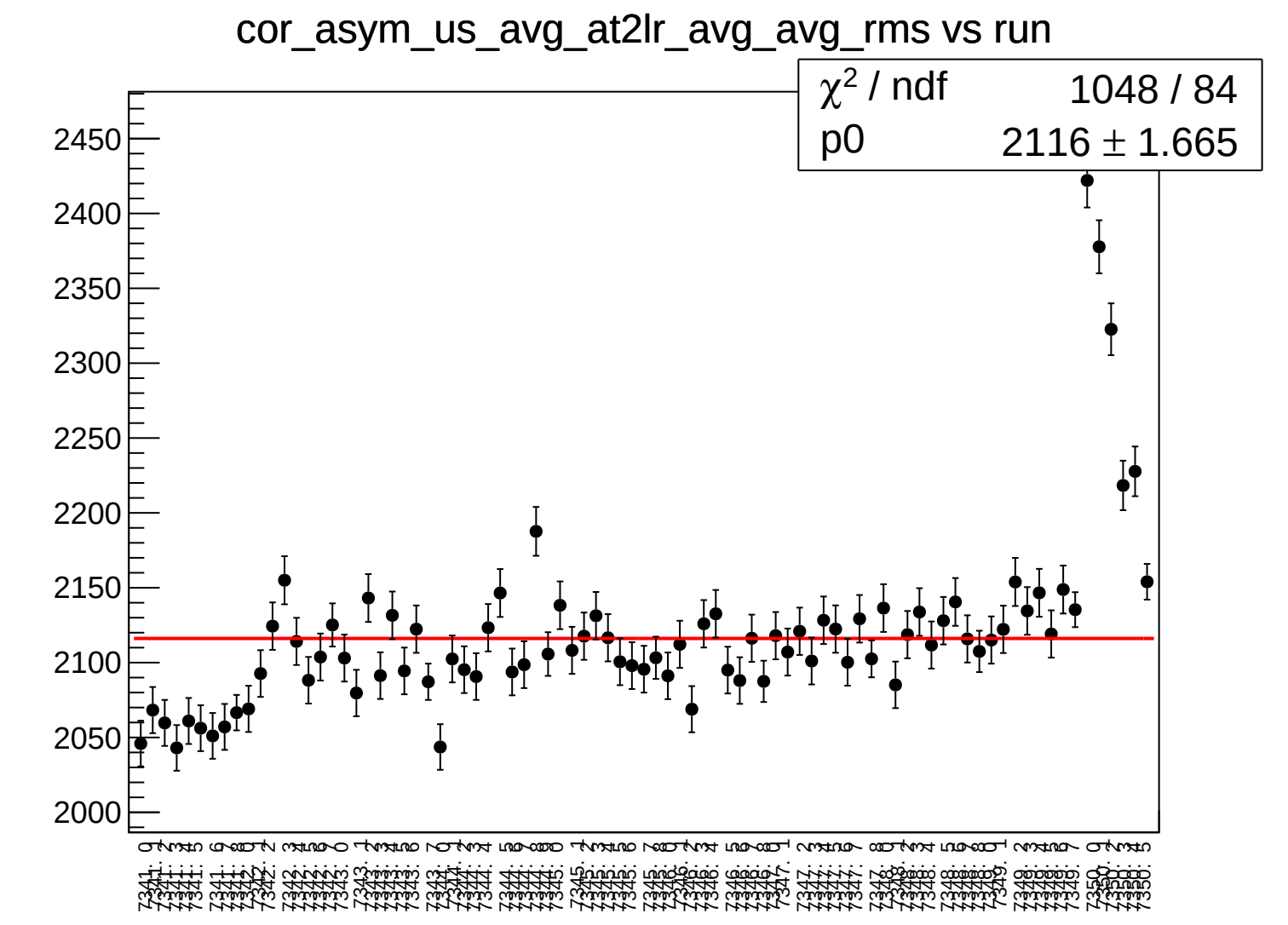

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1048 / 84
p0 2116 ± 1.665
2450
2400
2350
2300
2250
2200
2150
2100
2050
2000

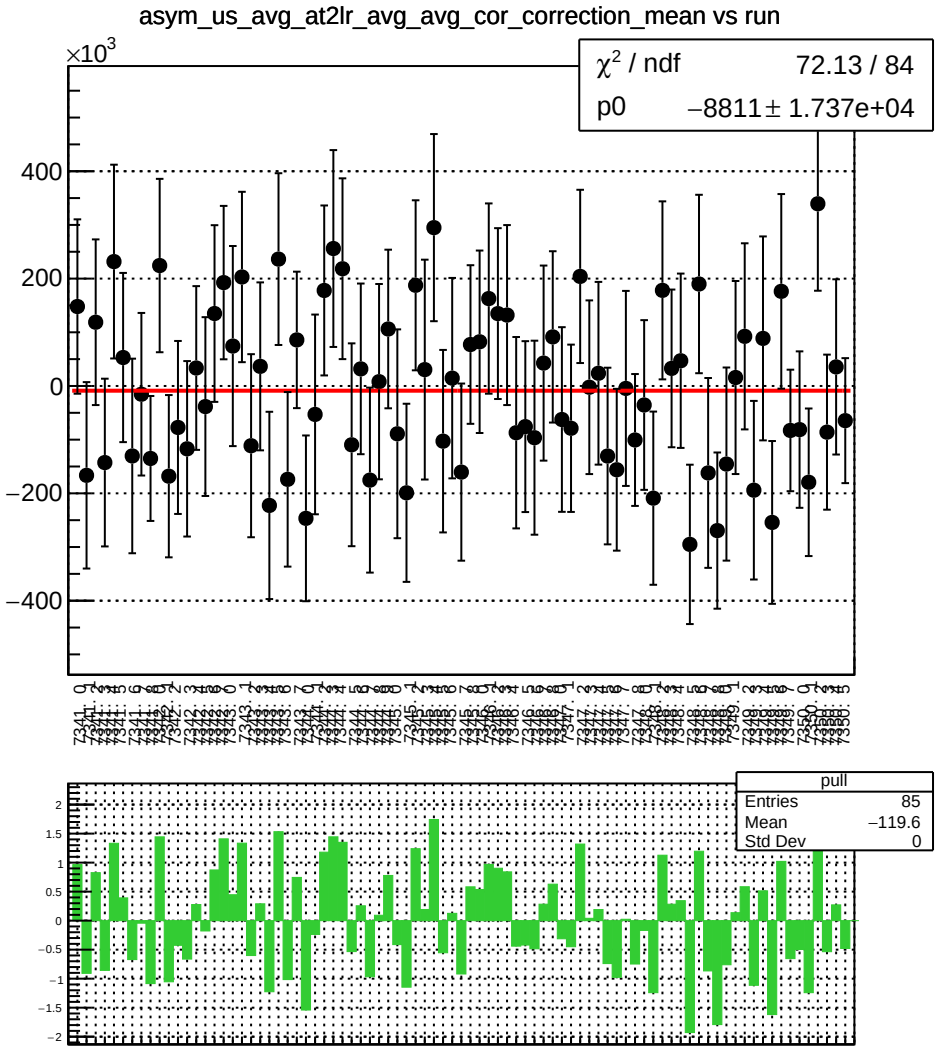

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
χ² / ndf 72.13 / 84
p0 −8811 ± 1.737e+04
×10³
pull
Entries 85
Mean −119.6
Std Dev 0
pull1D
Entries 85
Mean 0.02018
Std Dev 0.921

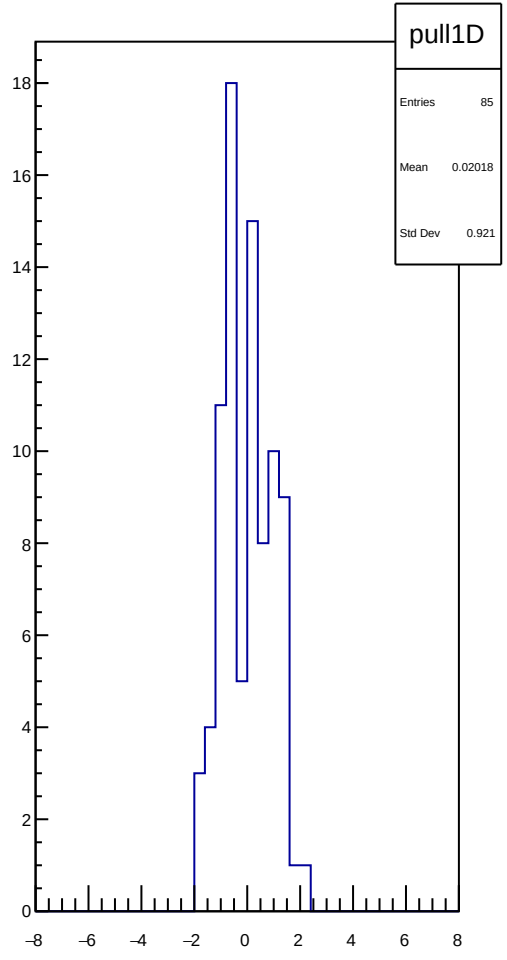

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 8537 / 84
p0 1.557e+04 ± 12.28
20000
19000
18000
17000
16000
15000
14000
13000

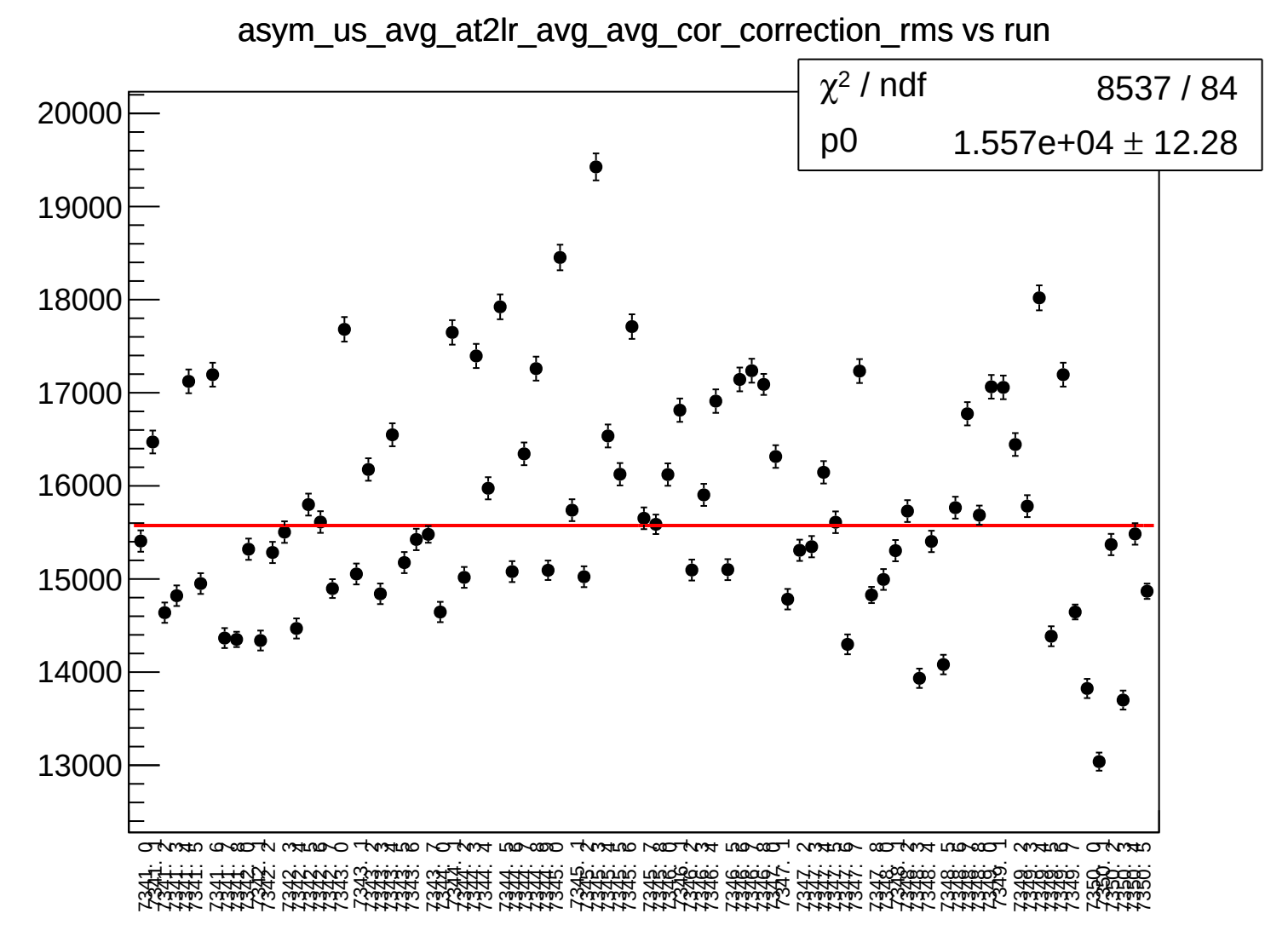

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 89.47 / 84
p0 5549 ± 2355
pull
Entries 85
Mean −633.2
Std Dev 0

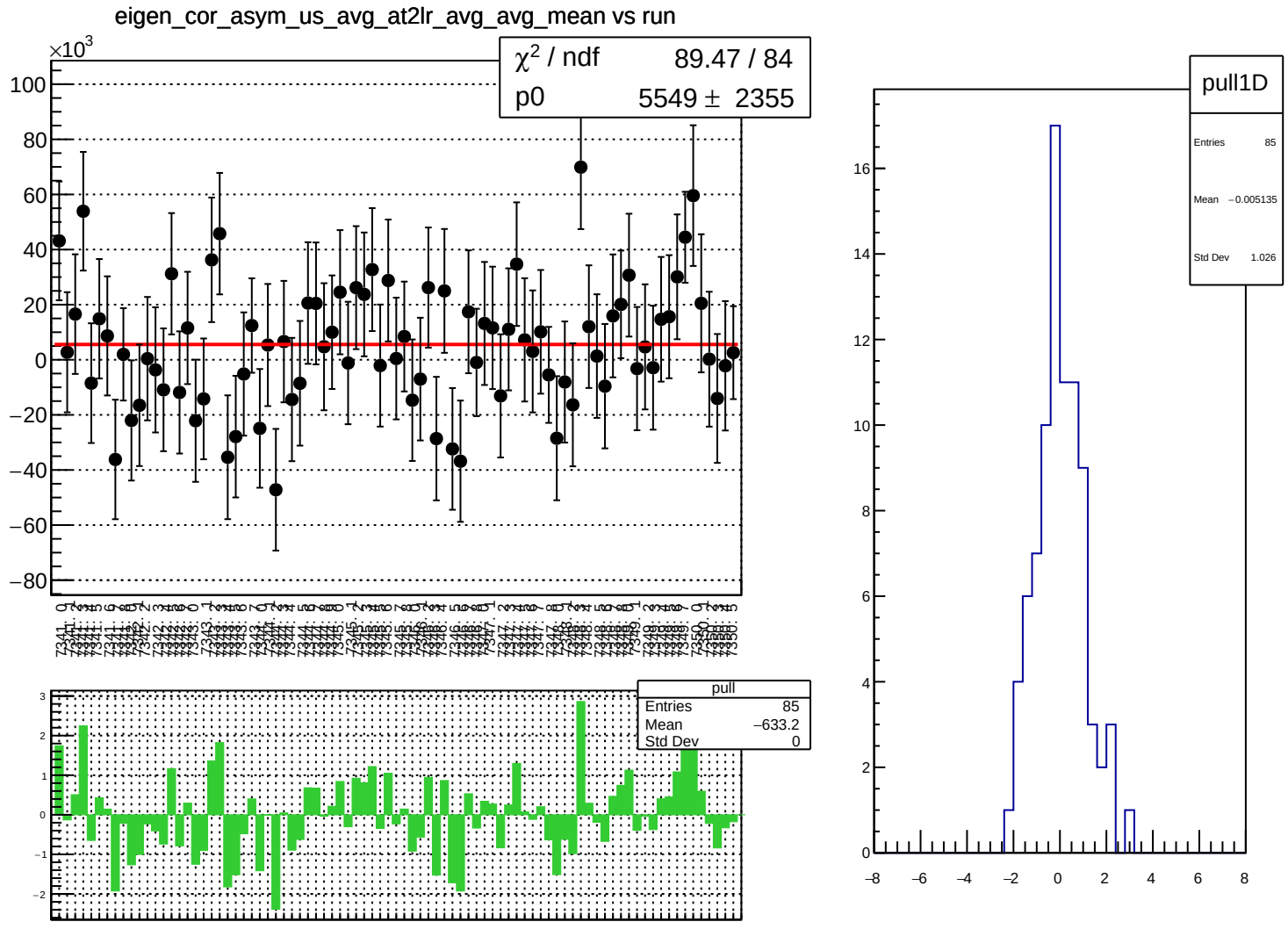

pull1D
Entries 85
Mean −0.005135
Std Dev 1.026

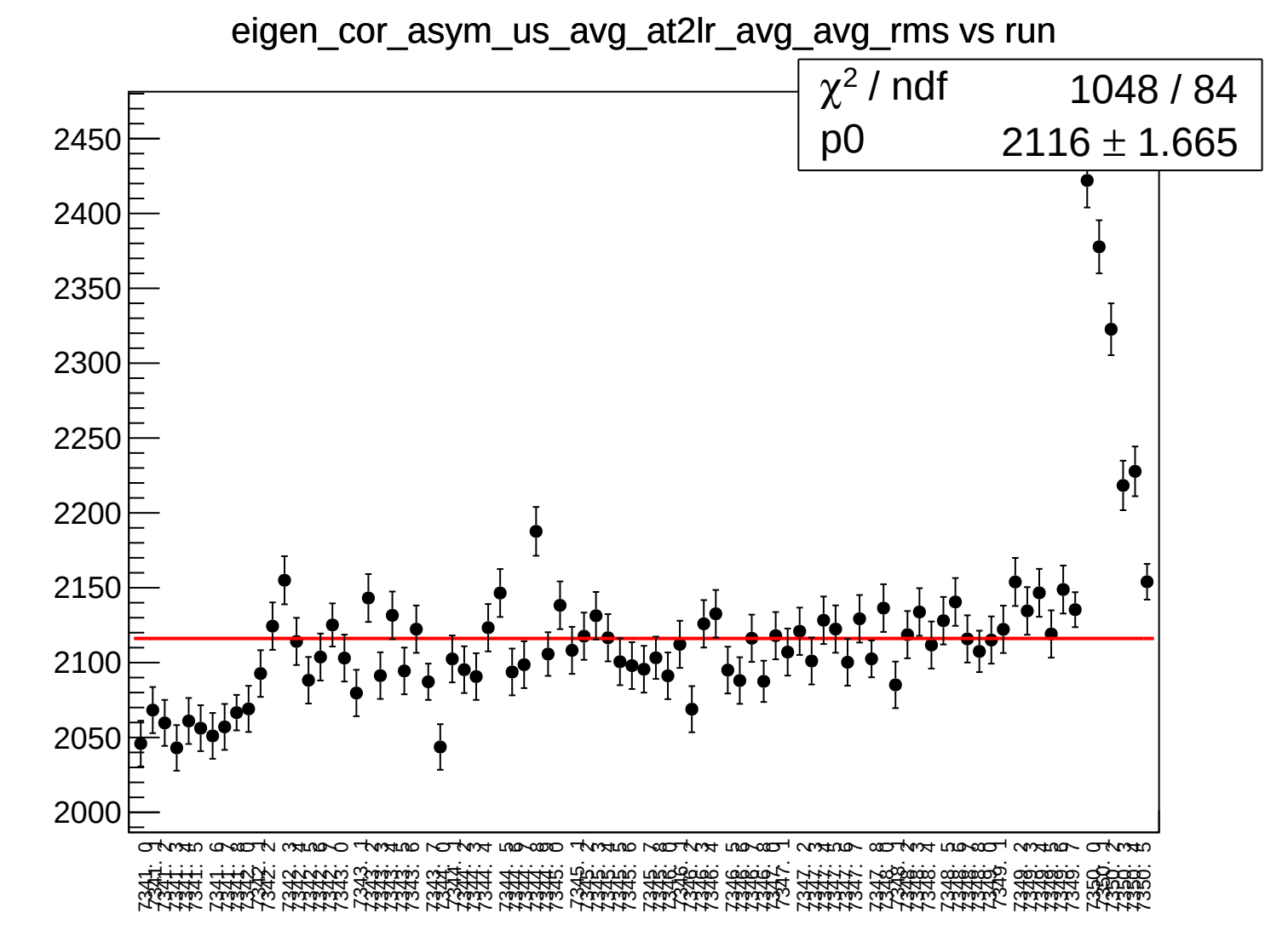

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 1048 / 84
p0 2116 ± 1.665
2450
2400
2350
2300
2250
2200
2150
2100
2050
2000

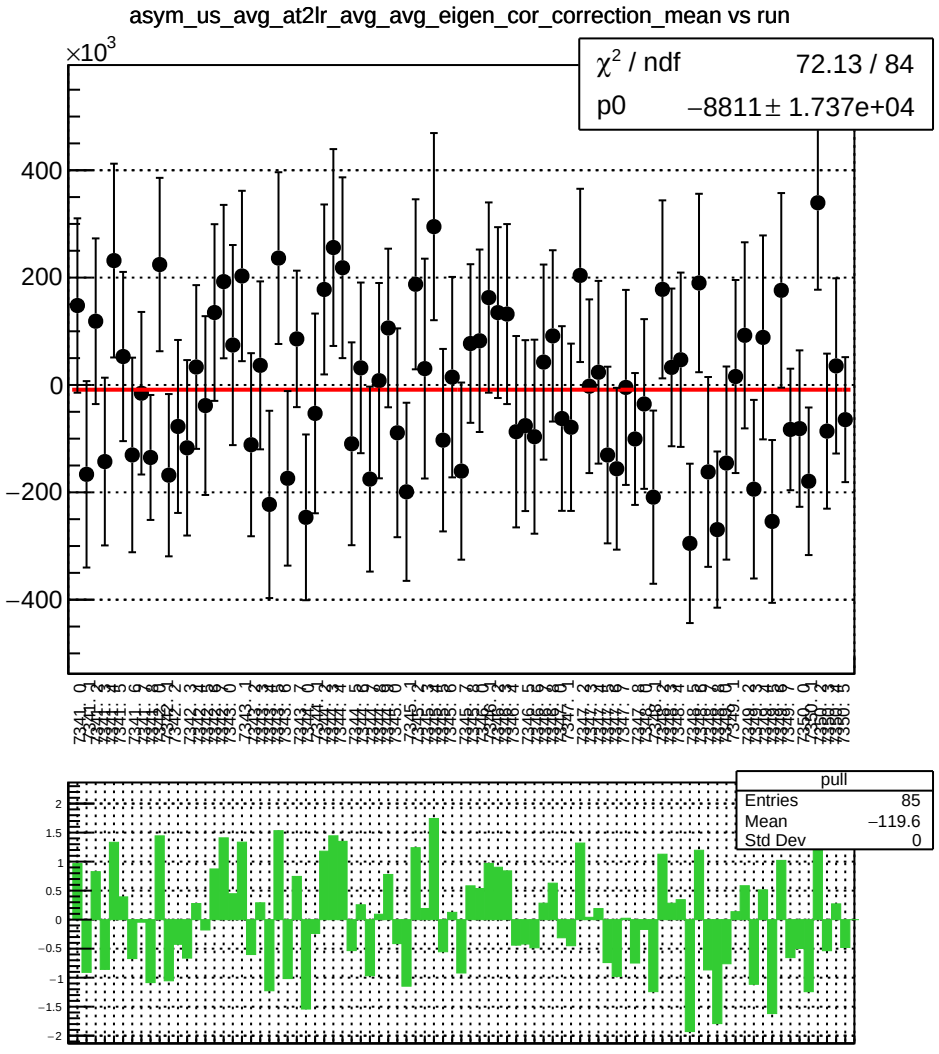

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
χ² / ndf 72.13 / 84
p0 −8811 ± 1.737e+04
×10³
pull
Entries 85
Mean −119.6
Std Dev 0

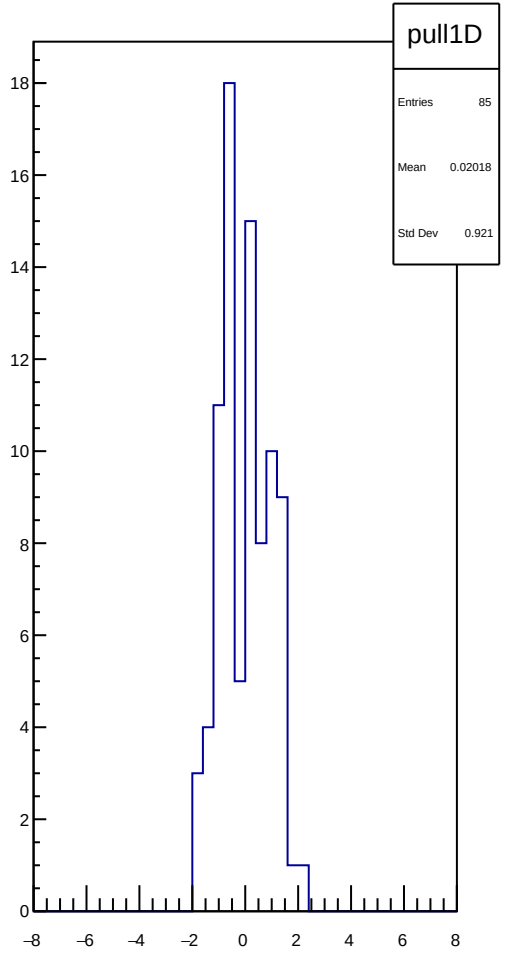

pull1D
Entries 85
Mean 0.02018
Std Dev 0.921

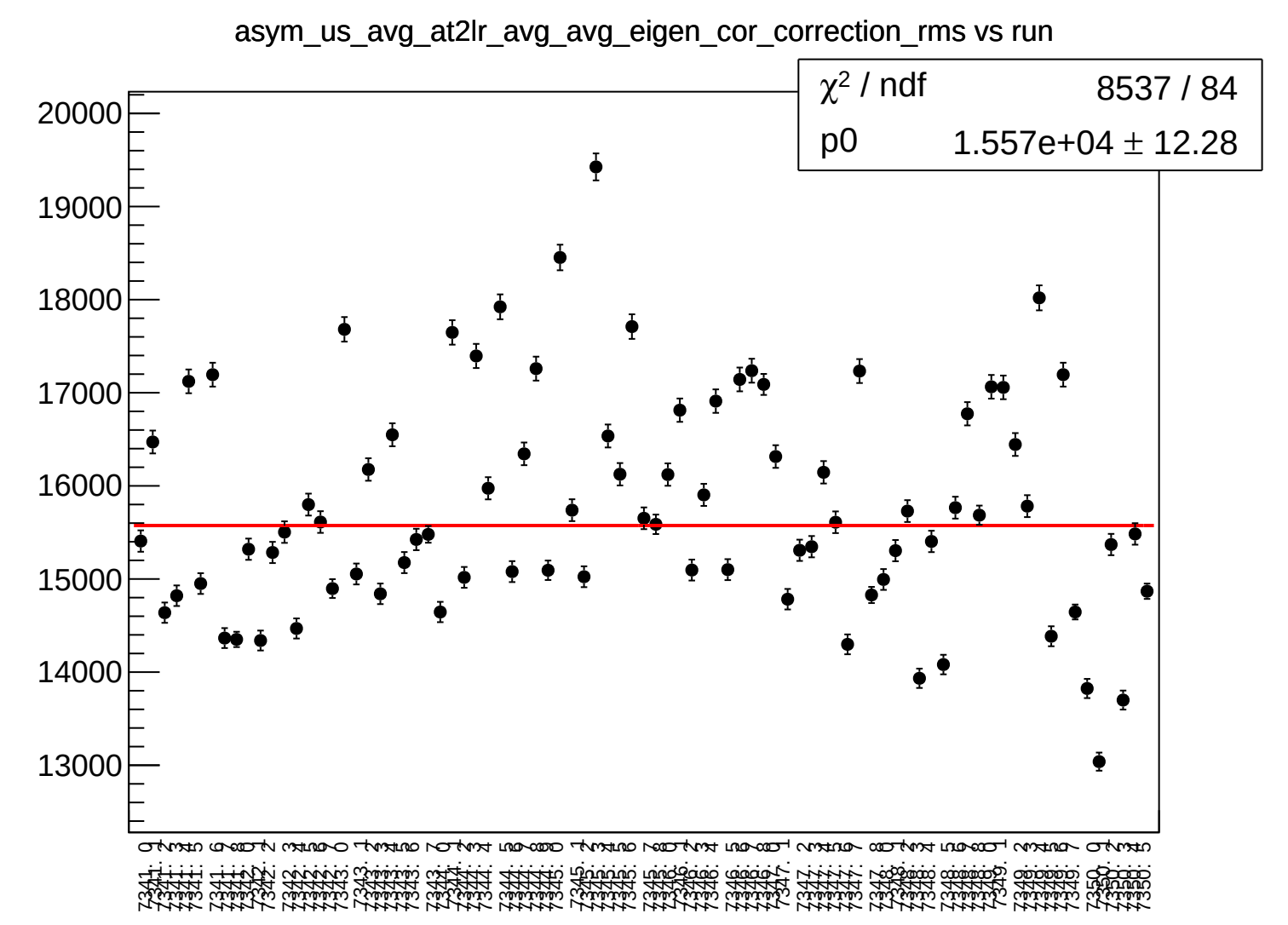

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 8537 / 84
p0 1.557e+04 ± 12.28
20000
19000
18000
17000
16000
15000
14000
13000

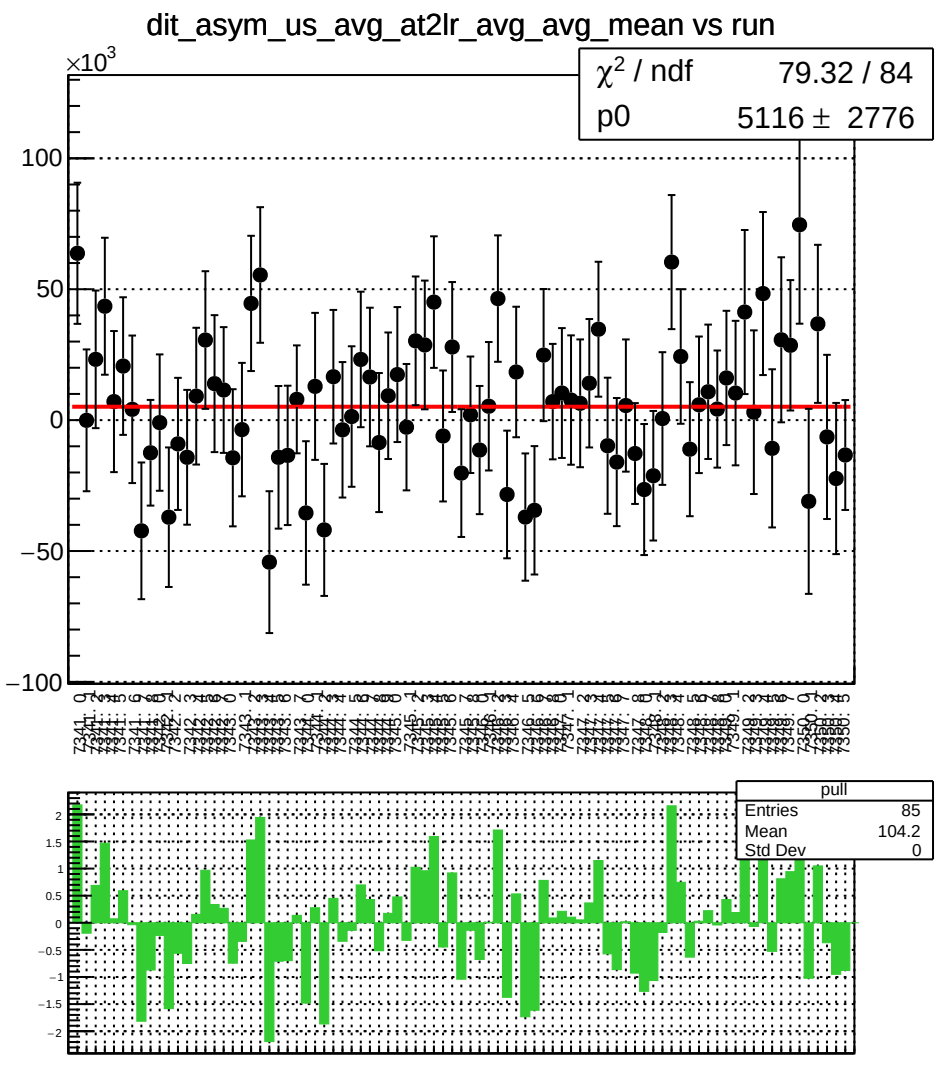

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 89.47 / 84
p0 5549 ± 2355
pull
Entries 85
Mean −633.2
Std Dev 0
pull1D
Entries 85
Mean −0.005135
Std Dev 1.026

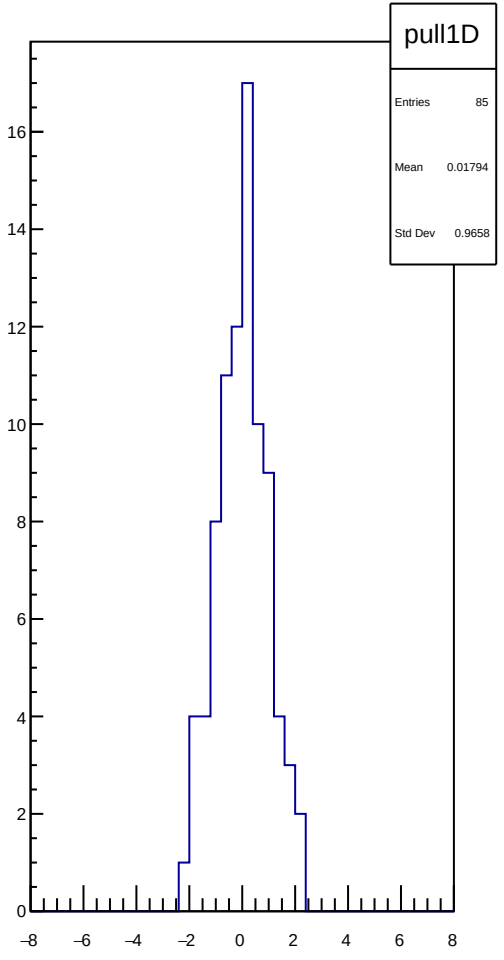

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1048 / 84
p0 2116 ± 1.665
2450
2400
2350
2300
2250
2200
2150
2100
2050
2000

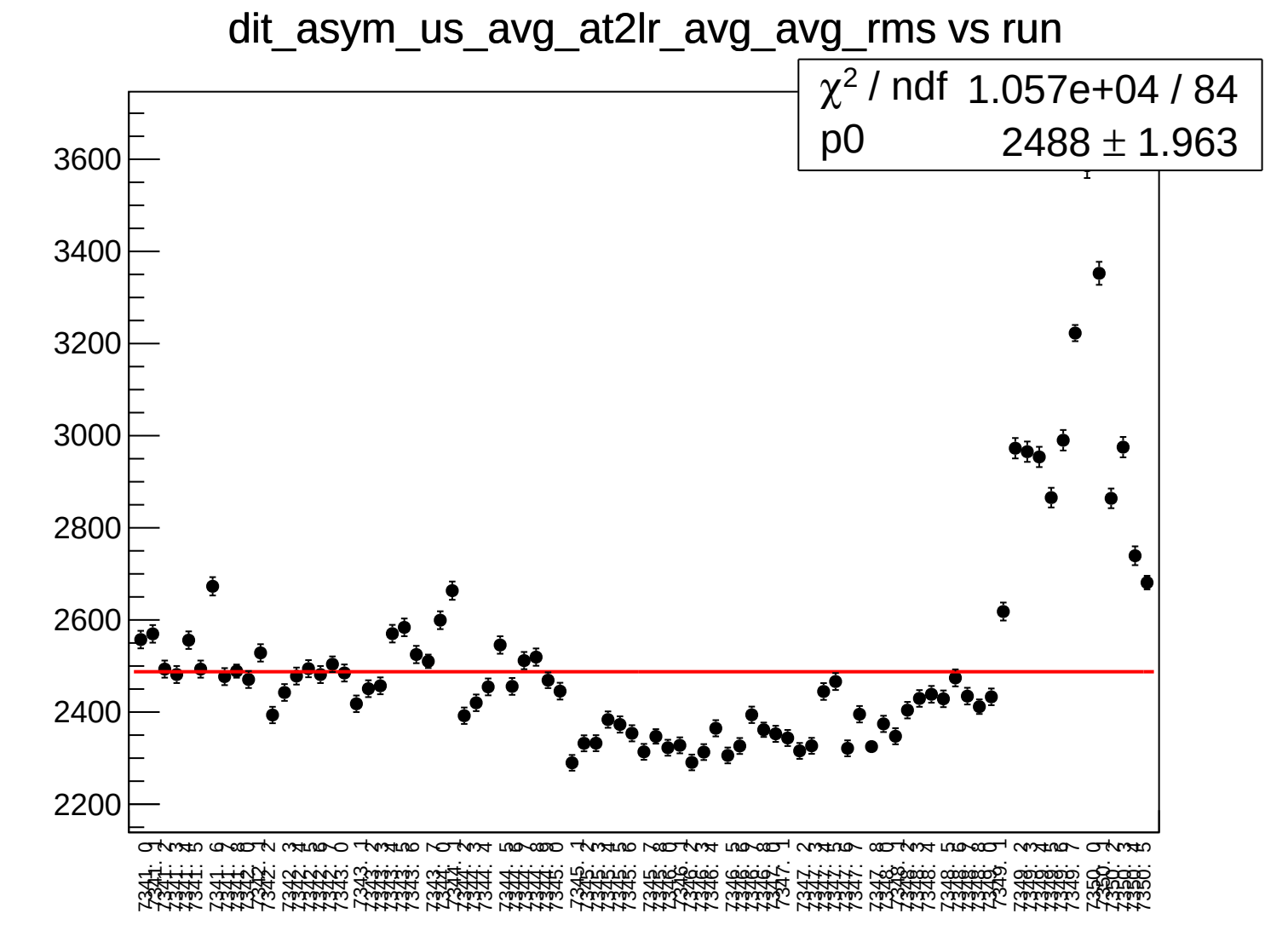

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.13 / 84
p0 −8811 ± 1.737e+04
400
200
0
−200
−400
pull
Entries 85
Mean −119.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

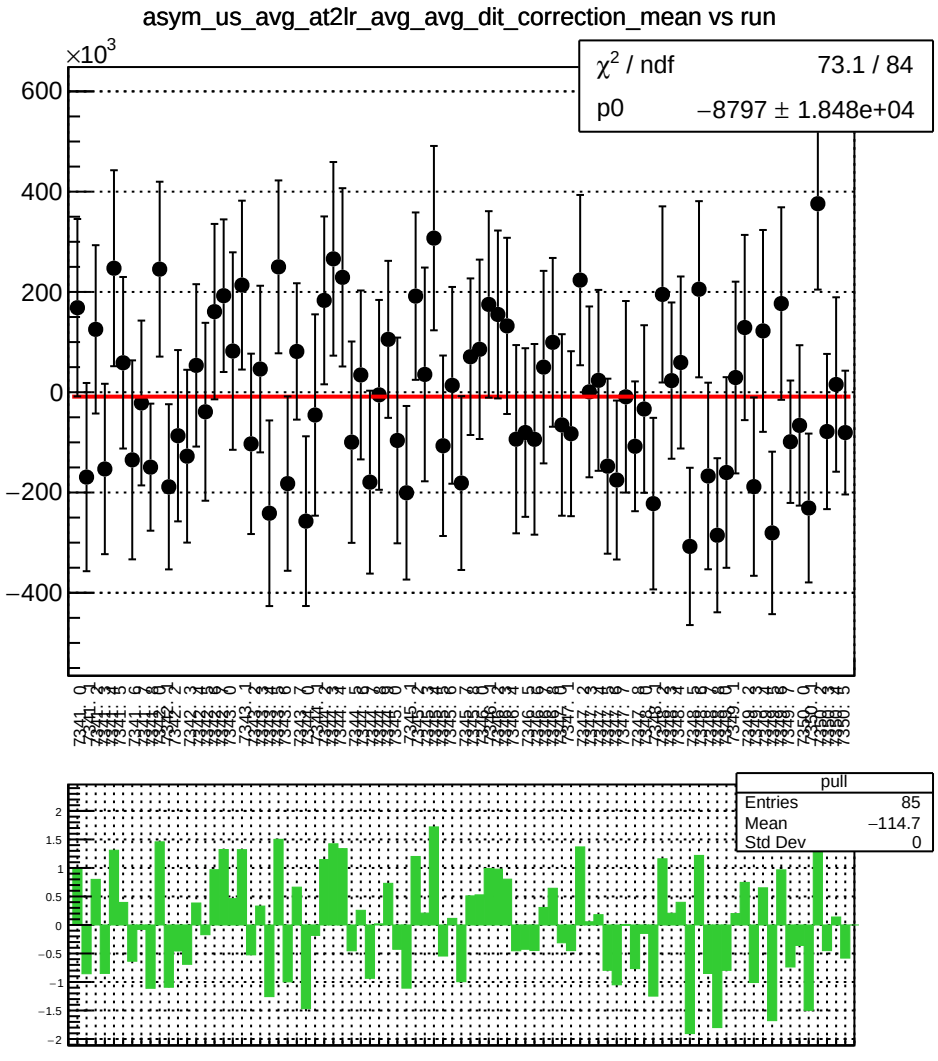

pull1D
Entries 85
Mean 0.02018
Std Dev 0.921
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

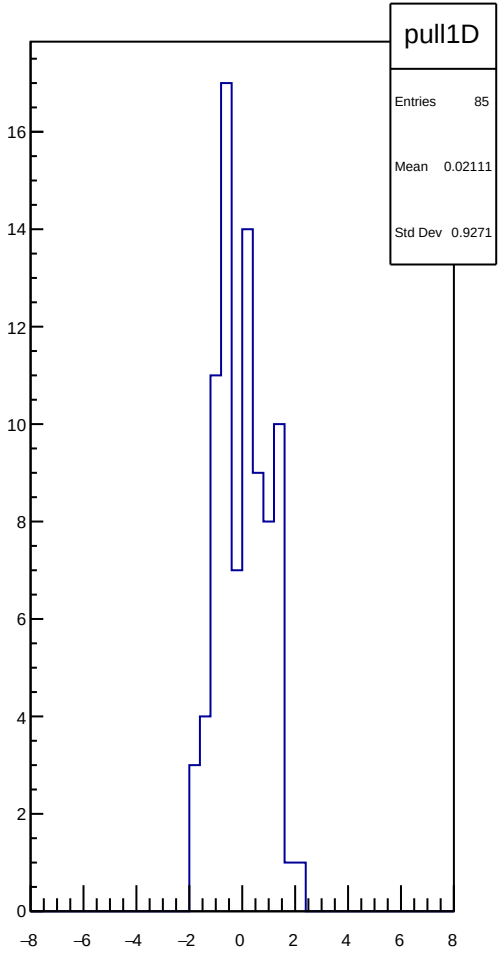

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 8537 / 84
p0 1.557e+04 ± 12.28
20000
19000
18000
17000
16000
15000
14000
13000

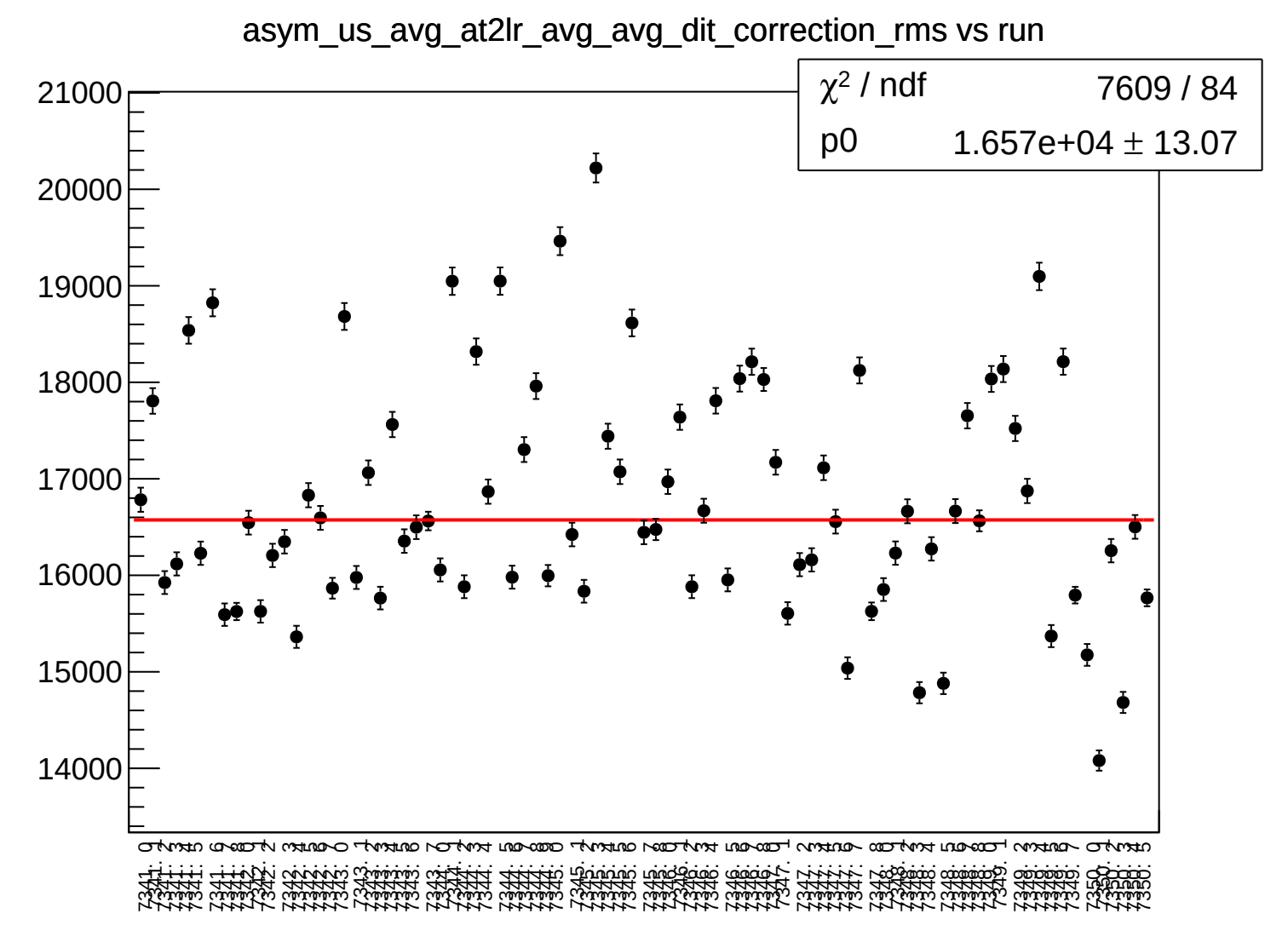

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 79.32 / 84
p0 5116 ± 2776
100
50
0
−50
−100
pull
Entries 85
Mean 104.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

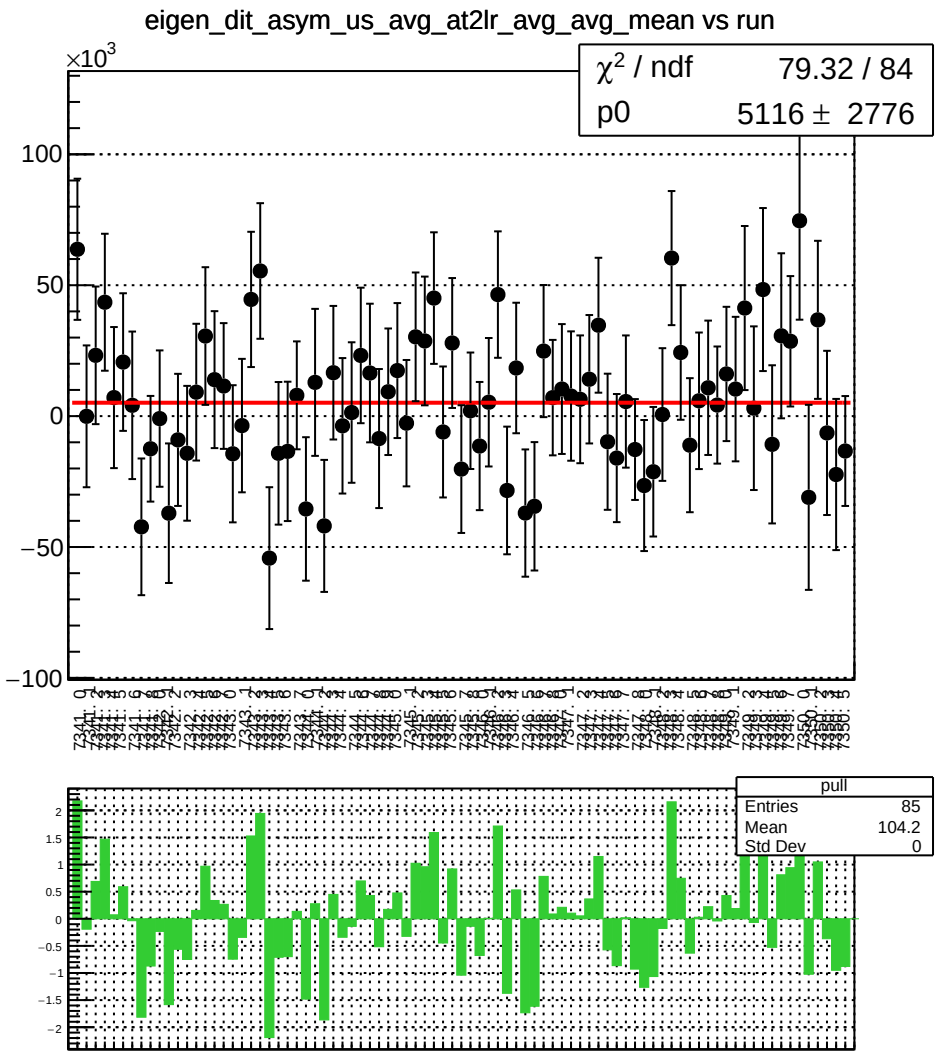

pull1D
Entries 85
Mean 0.01794
Std Dev 0.9658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

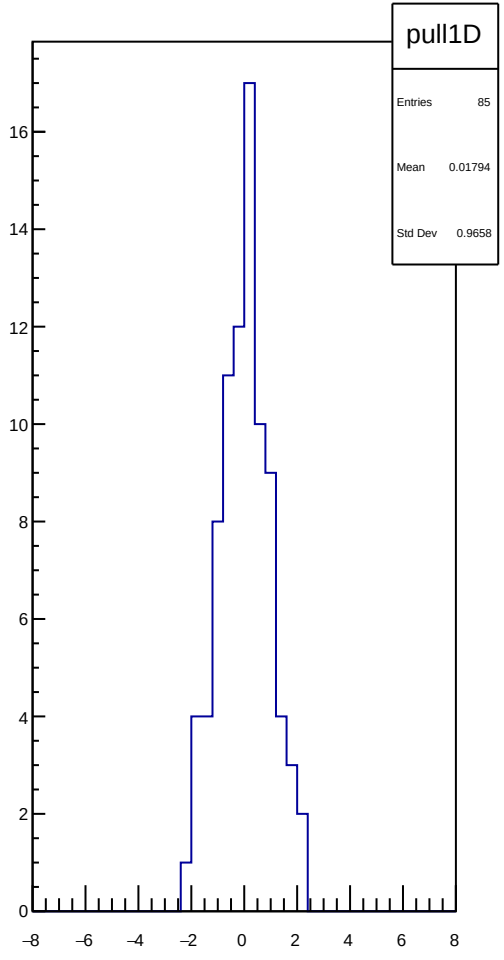

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.057e+04 / 84
p0 2488 ± 1.963
3600
3400
3200
3000
2800
2600
2400
2200

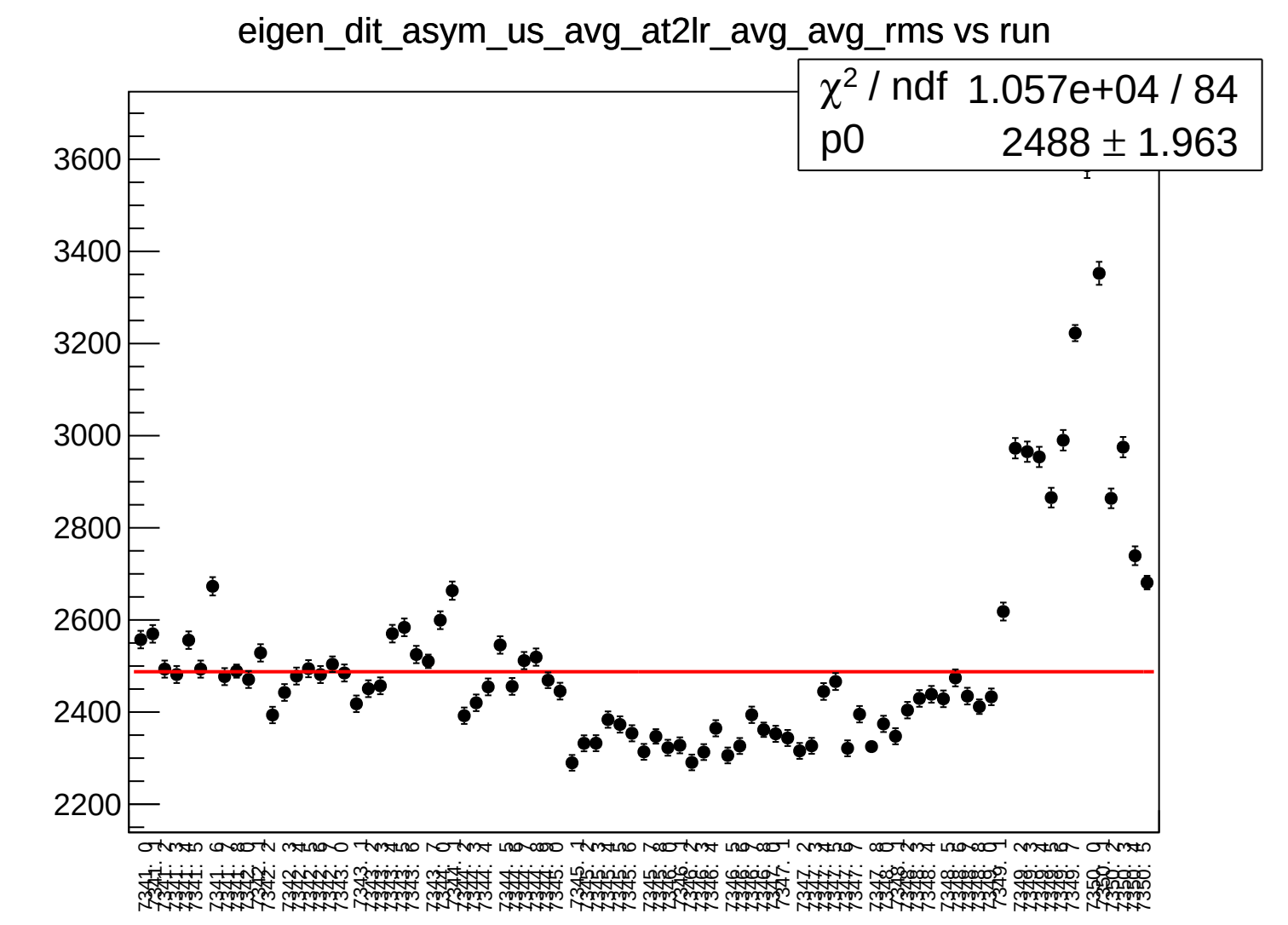

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.1 / 84
p0 −8797 ± 1.848e+04
pull
Entries 85
Mean −114.7
Std Dev 0

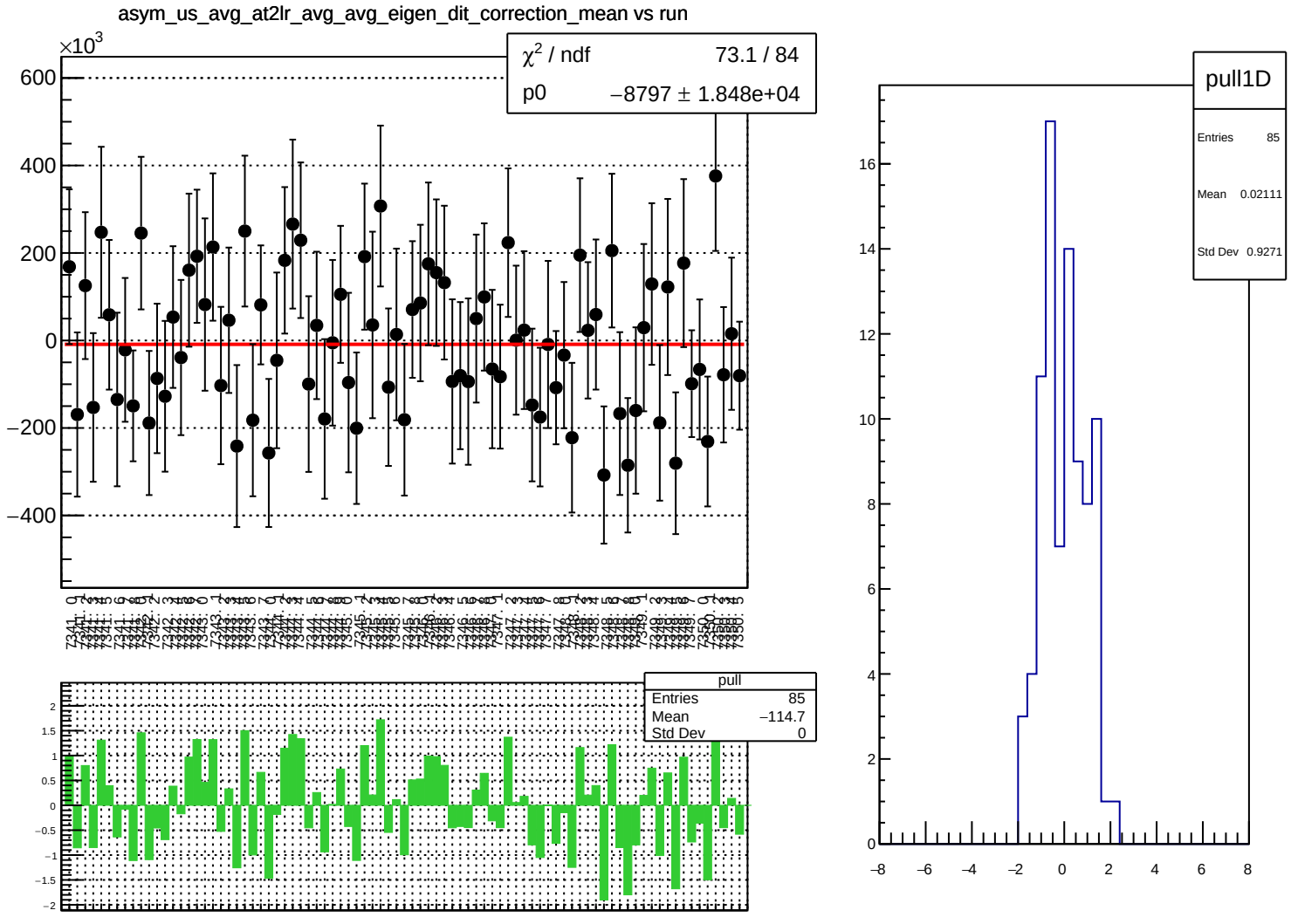

pull1D
Entries 85
Mean 0.02111
Std Dev 0.9271

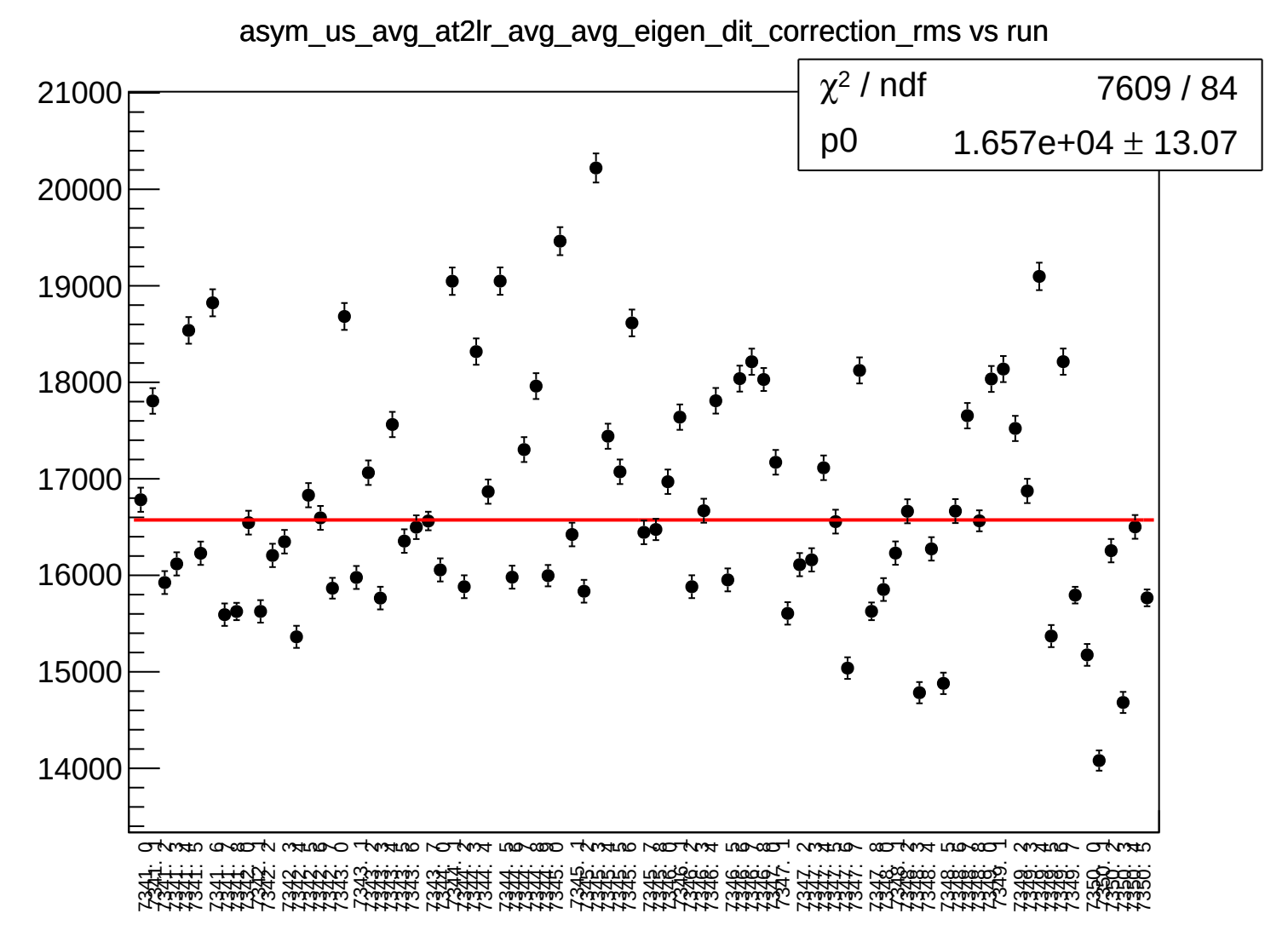

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 7609 / 84
p0 1.657e+04 ± 13.07
21000
20000
19000
18000
17000
16000
15000
14000

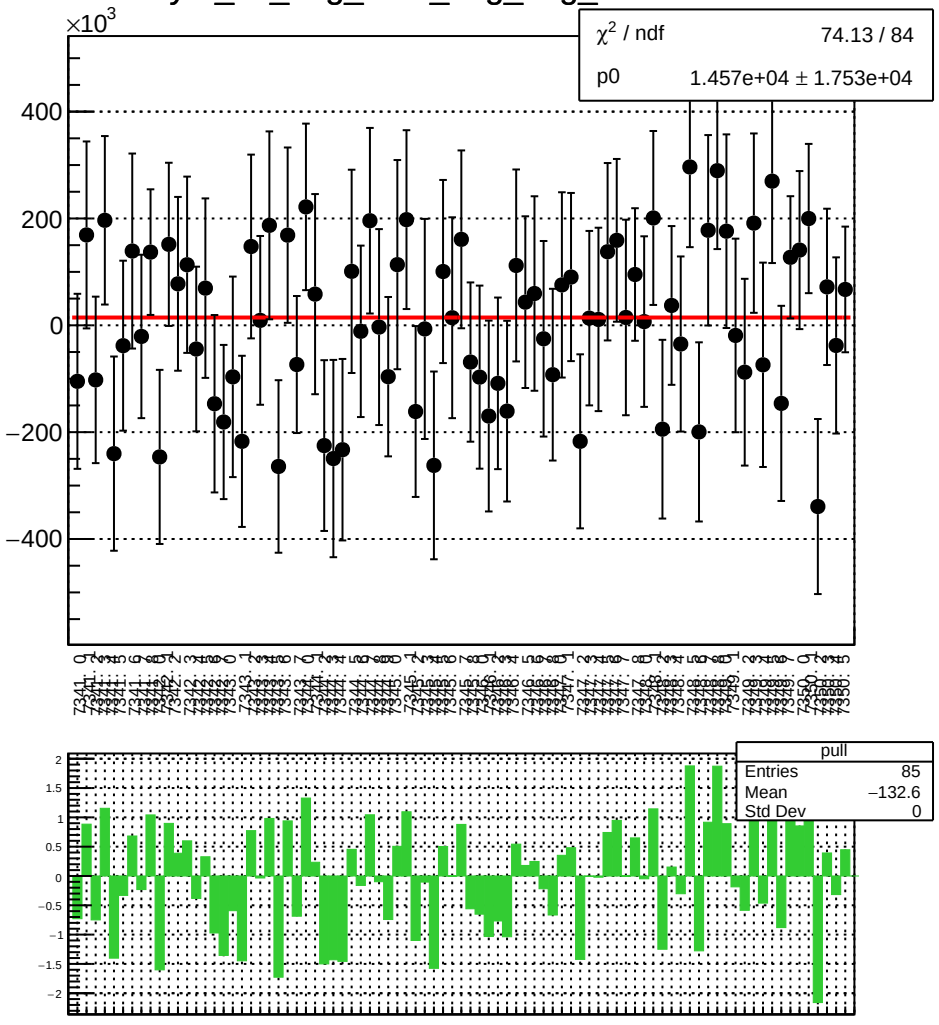

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 79.32 / 84
p0 5116 ± 2776
100
50
0
−50
−100
pull
Entries 85
Mean 104.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

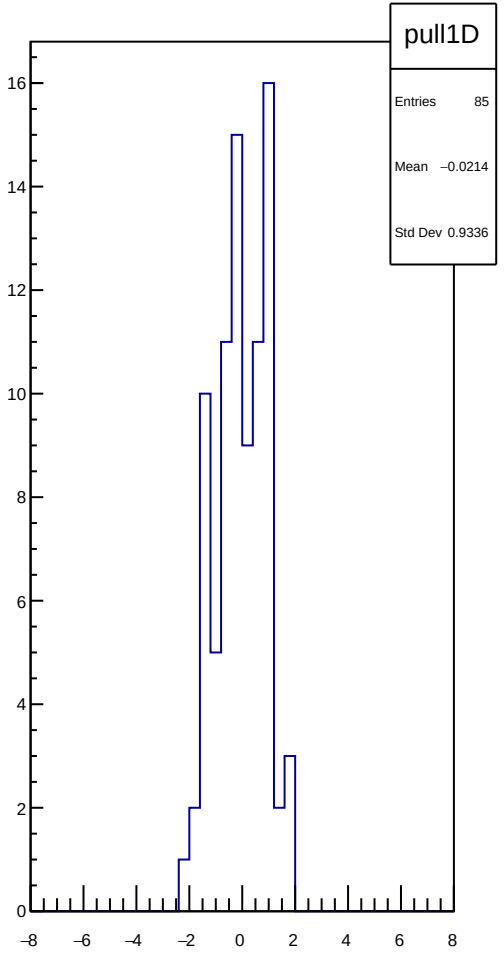

pull1D
Entries 85
Mean 0.01794
Std Dev 0.9658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

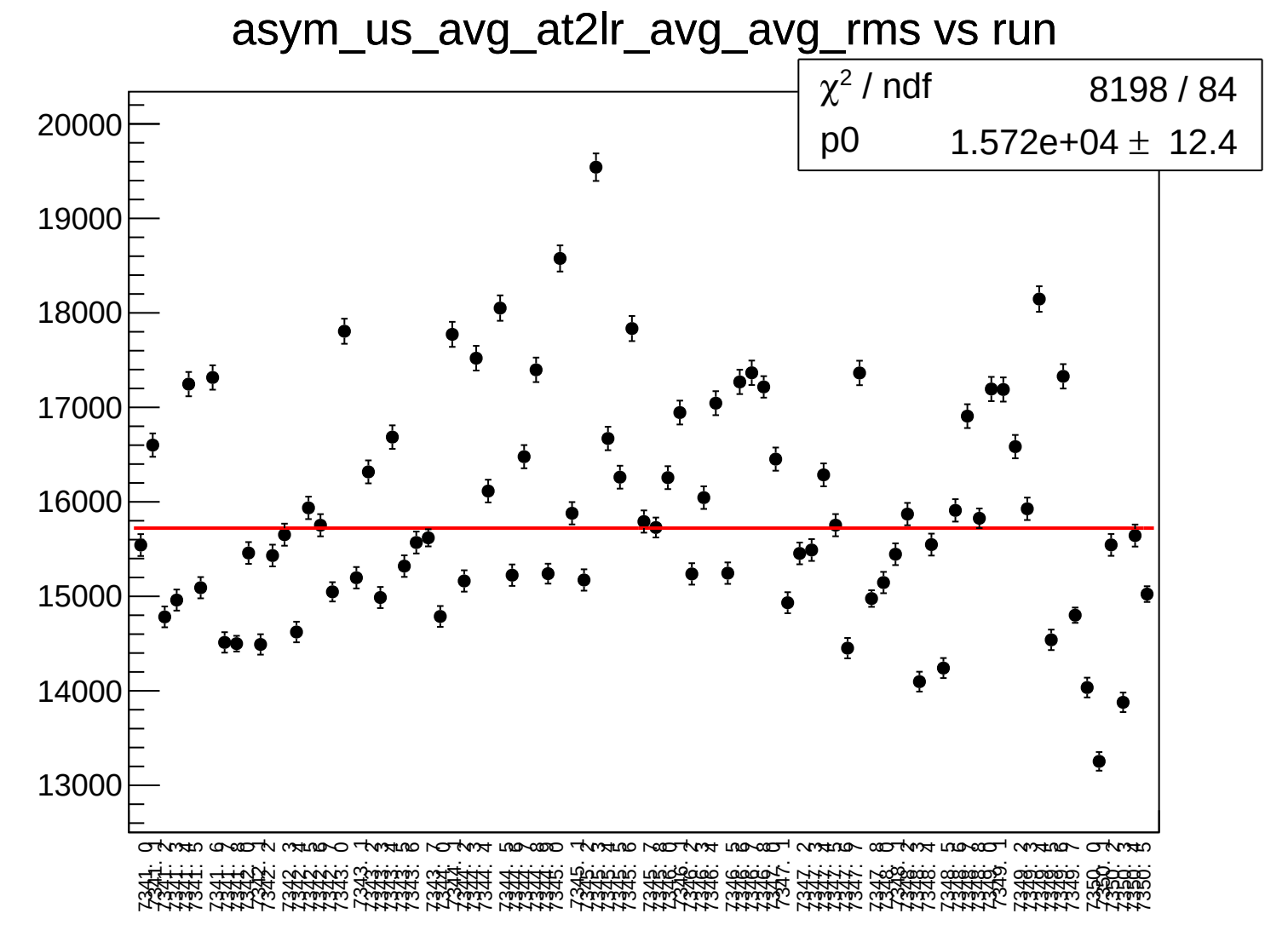

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 1.057e+04 / 84
p0 2488 ± 1.963
3600
3400
3200
3000
2800
2600
2400
2200

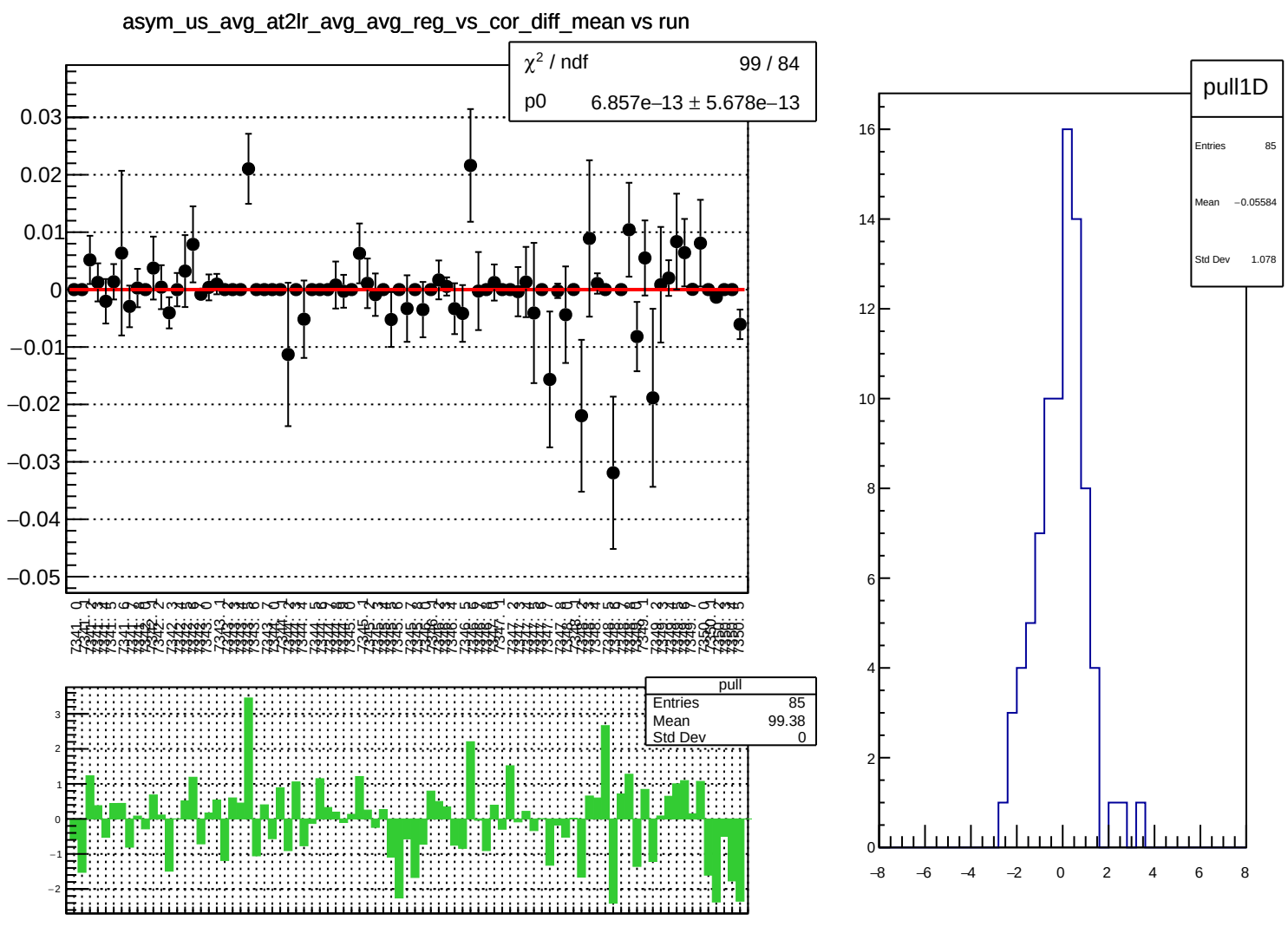

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.1 / 84
p0 −8797 ± 1.848e+04
pull
Entries 85
Mean −114.7
Std Dev 0
pull1D
Entries 85
Mean 0.02111
Std Dev 0.9271

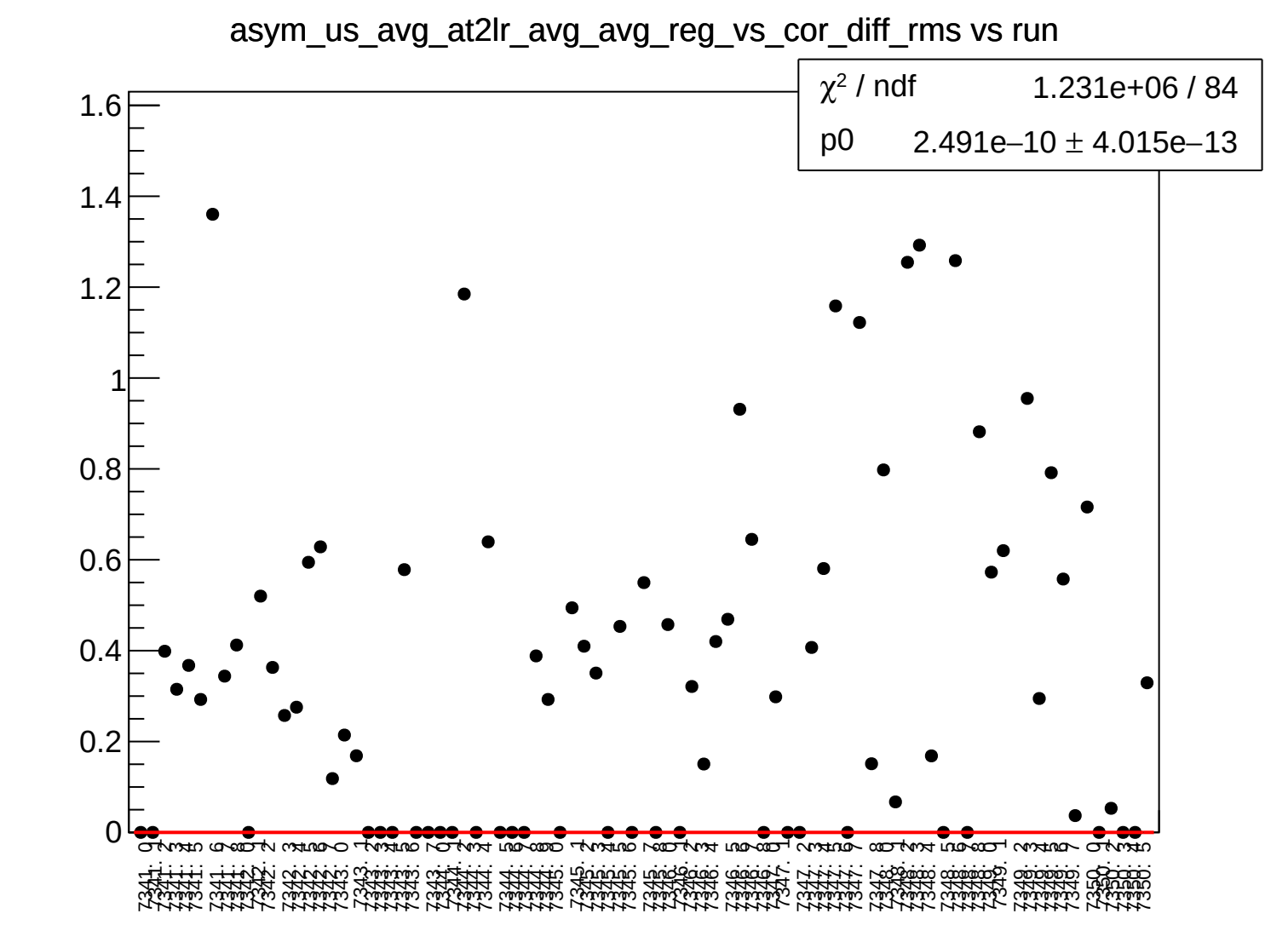

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7609 / 84
p0 1.657e+04 ± 13.07
21000
20000
19000
18000
17000
16000
15000
14000

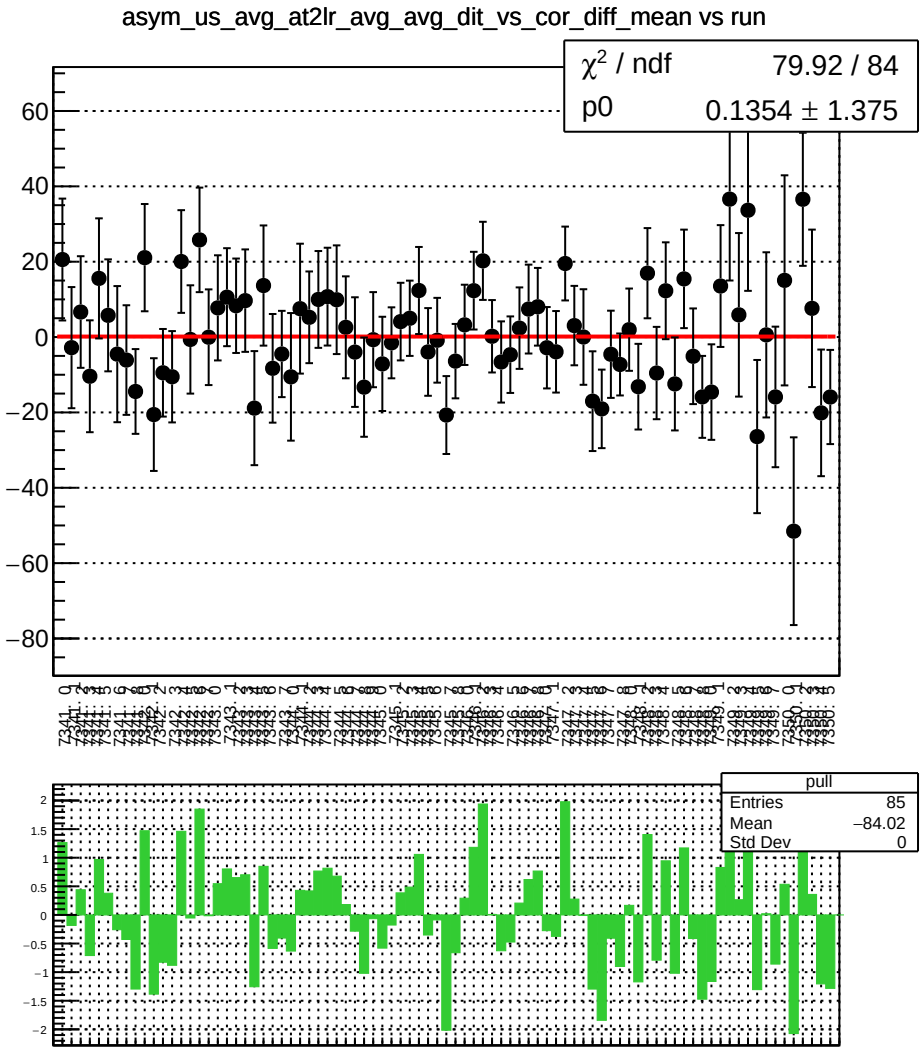

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 74.13 / 84
p0 1.457e+04 ± 1.753e+04
400
200
0
−200
−400
pull
Entries 85
Mean −132.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

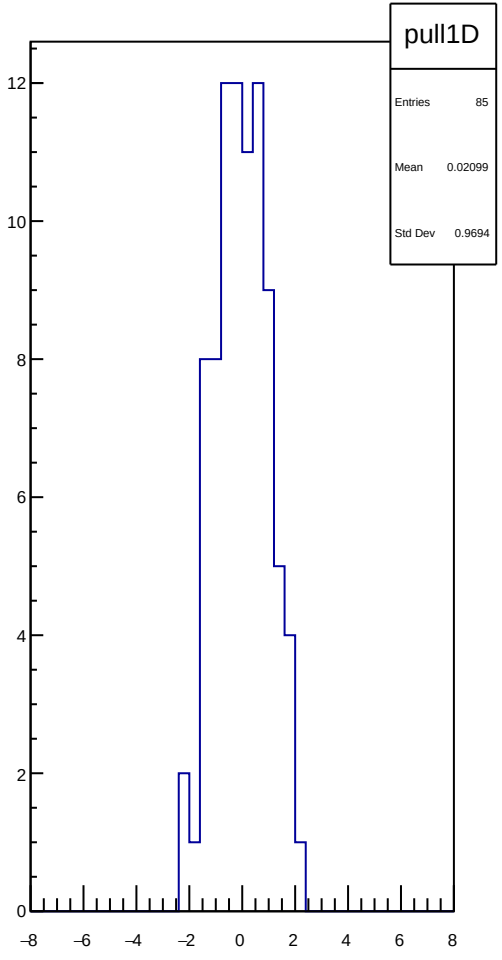

pull1D
Entries 85
Mean −0.0214
Std Dev 0.9336
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

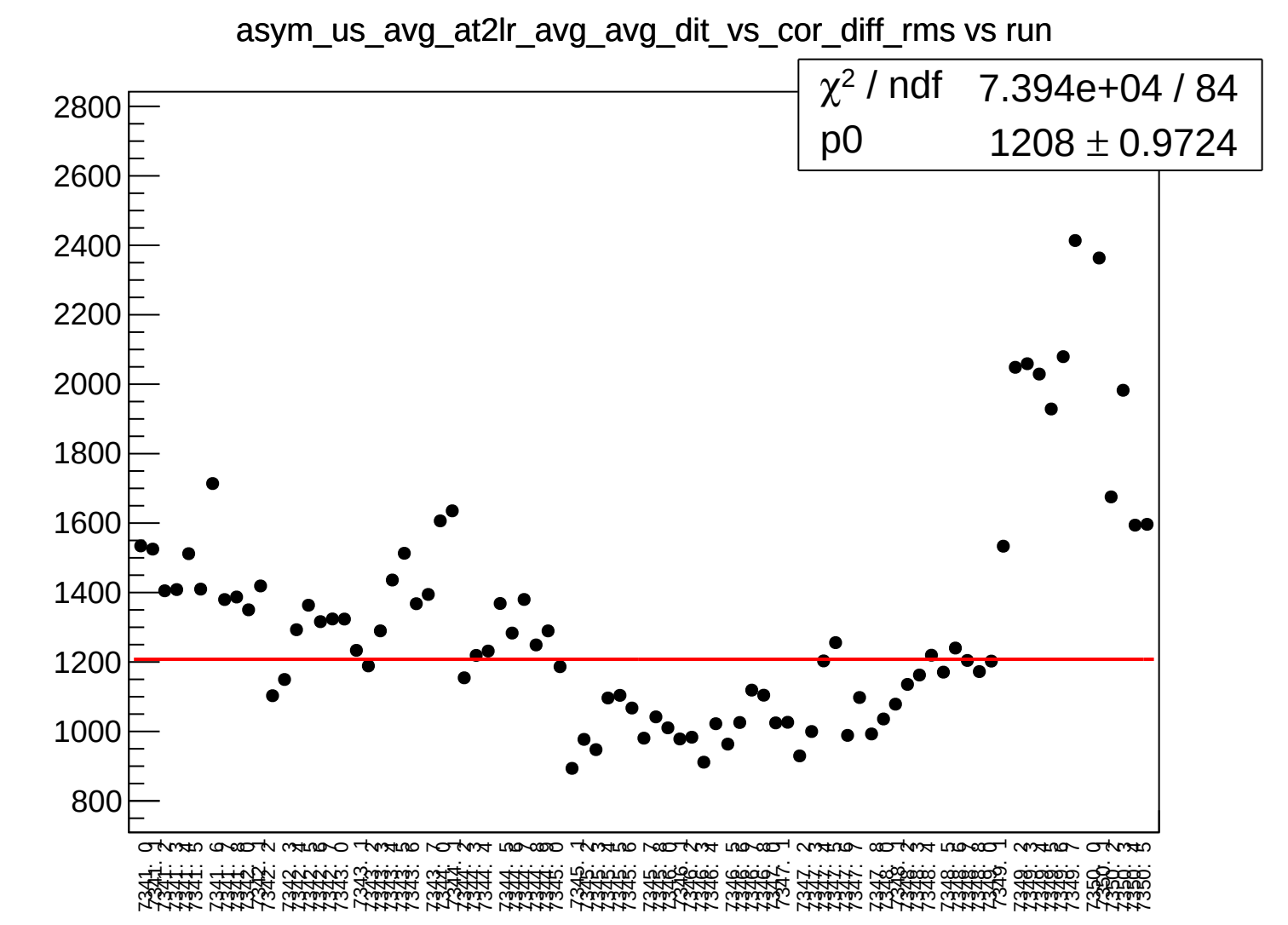

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 8198 / 84
p0 1.572e+04 ± 12.4
20000
19000
18000
17000
16000
15000
14000
13000

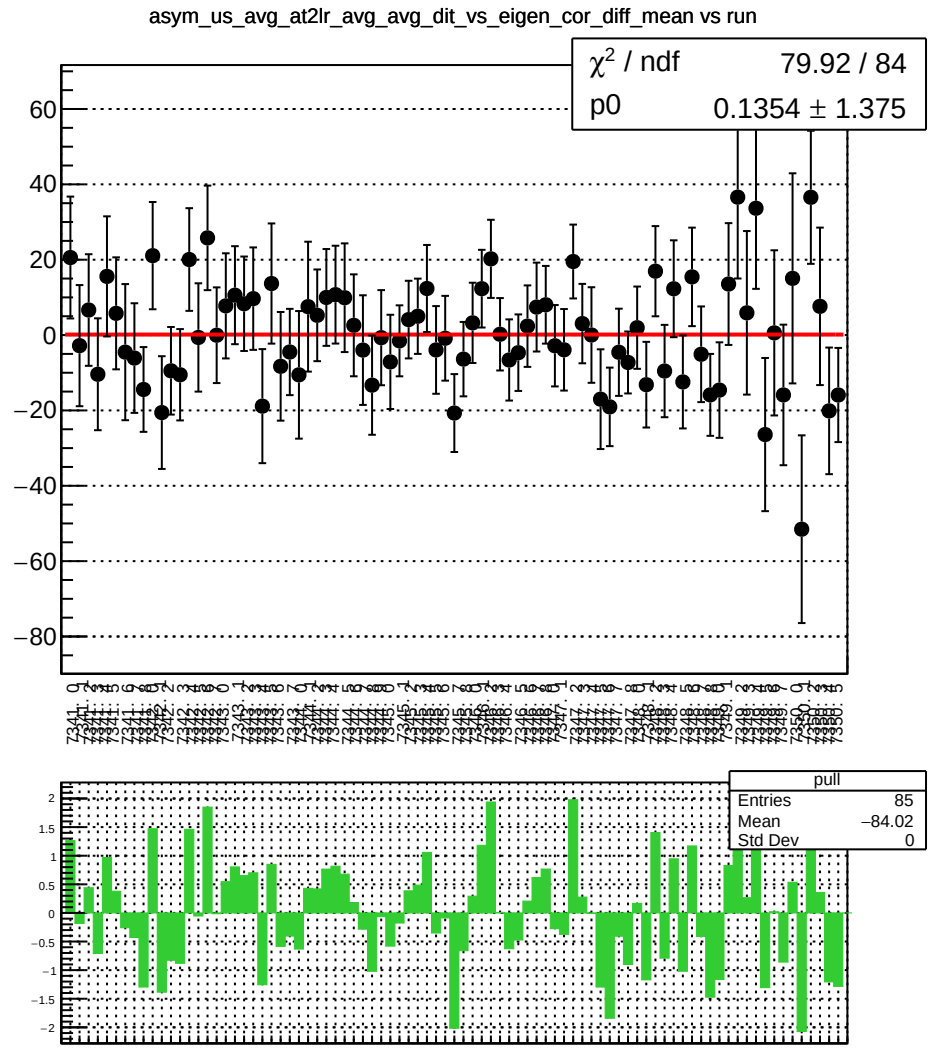

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99 / 84
p0 6.857e−13 ± 5.678e−13
pull
Entries 85
Mean 99.38
Std Dev 0
pull1D
Entries 85
Mean −0.05584
Std Dev 1.078

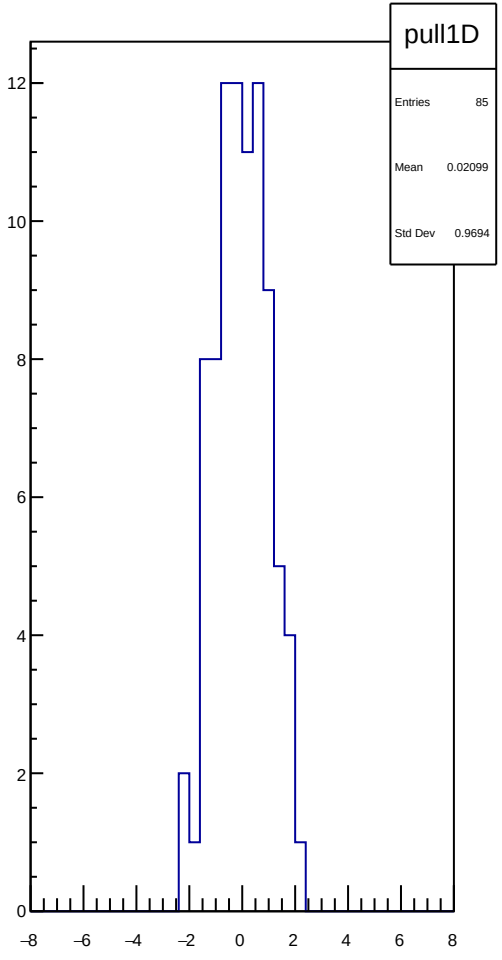

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.231e+06 / 84
p0 2.491e−10 ± 4.015e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

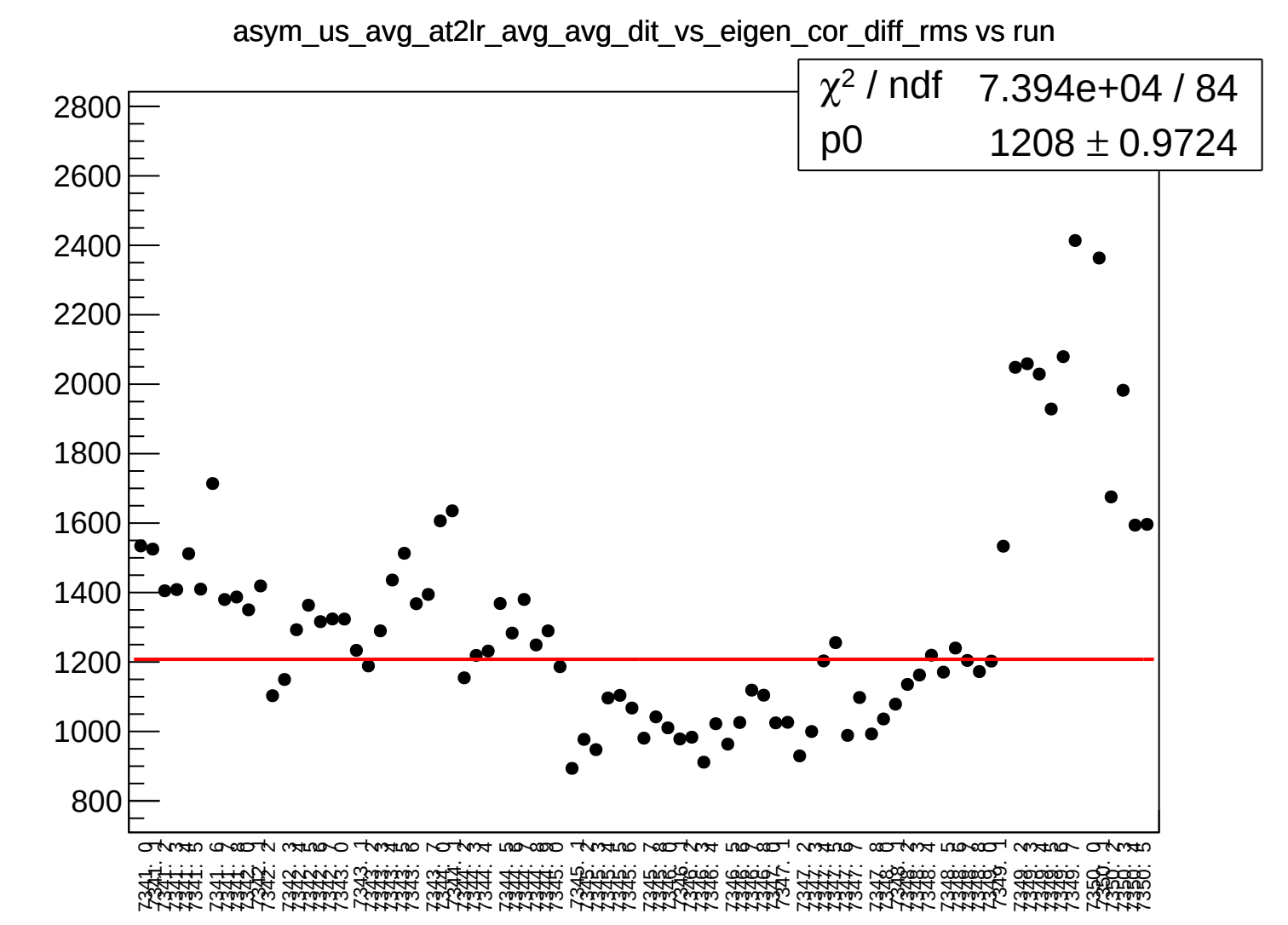

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.92 / 84
p0 0.1354 ± 1.375
pull
Entries 85
Mean −84.02
Std Dev 0

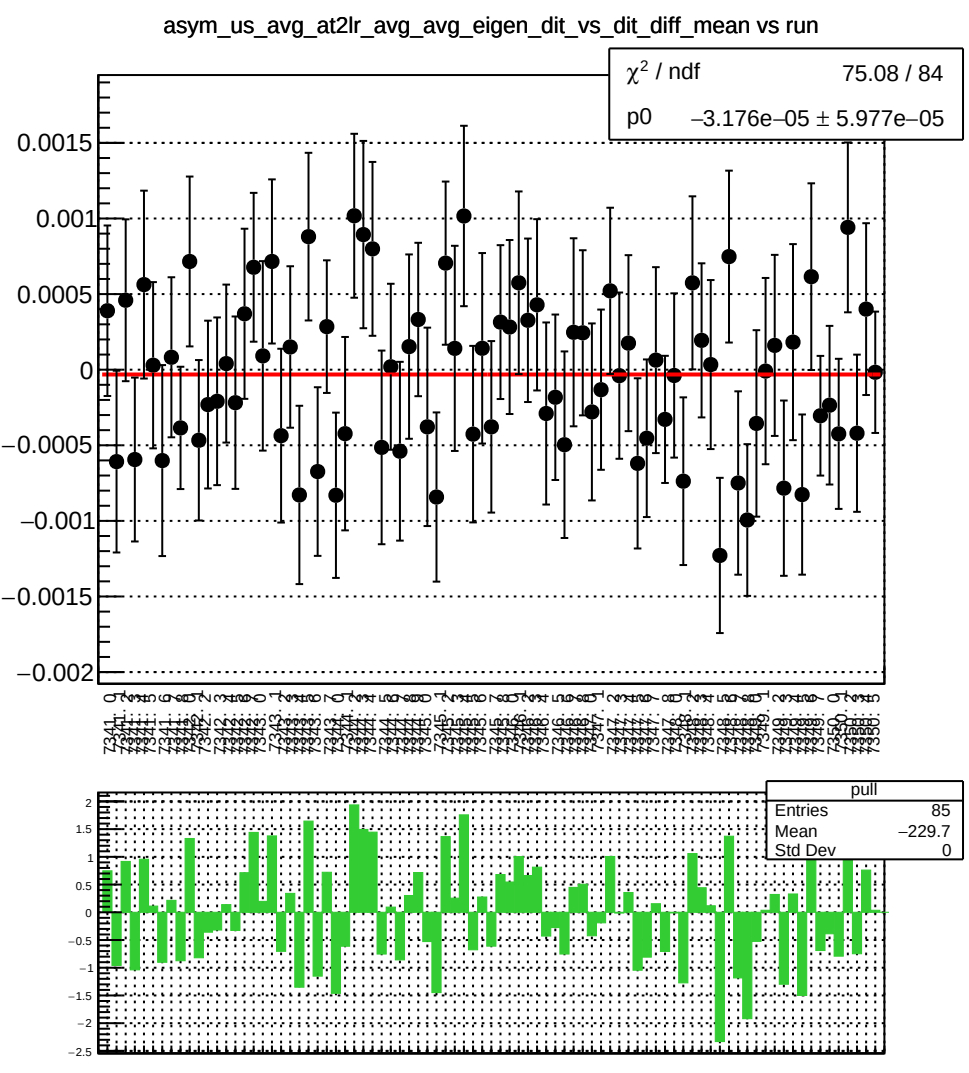

pull1D
Entries 85
Mean 0.02099
Std Dev 0.9694

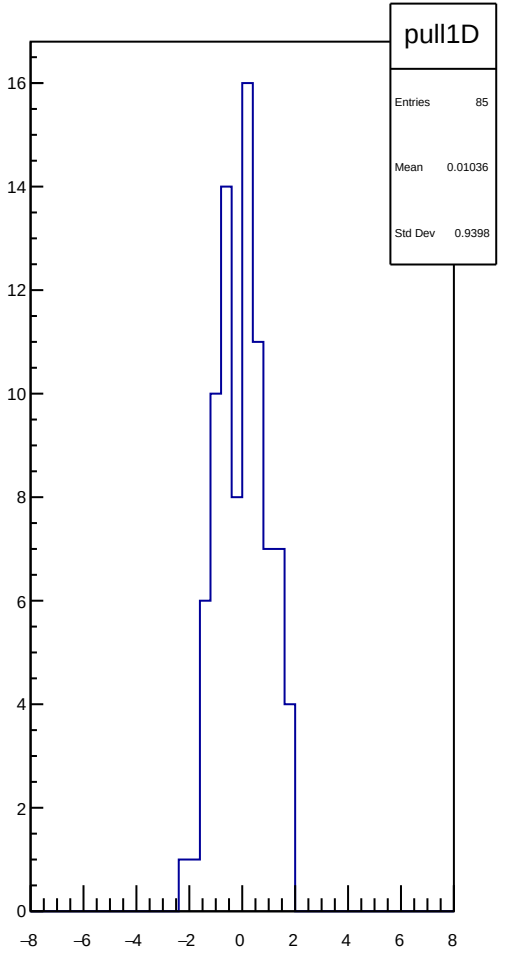

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.394e+04 / 84
p0 1208 ± 0.9724
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

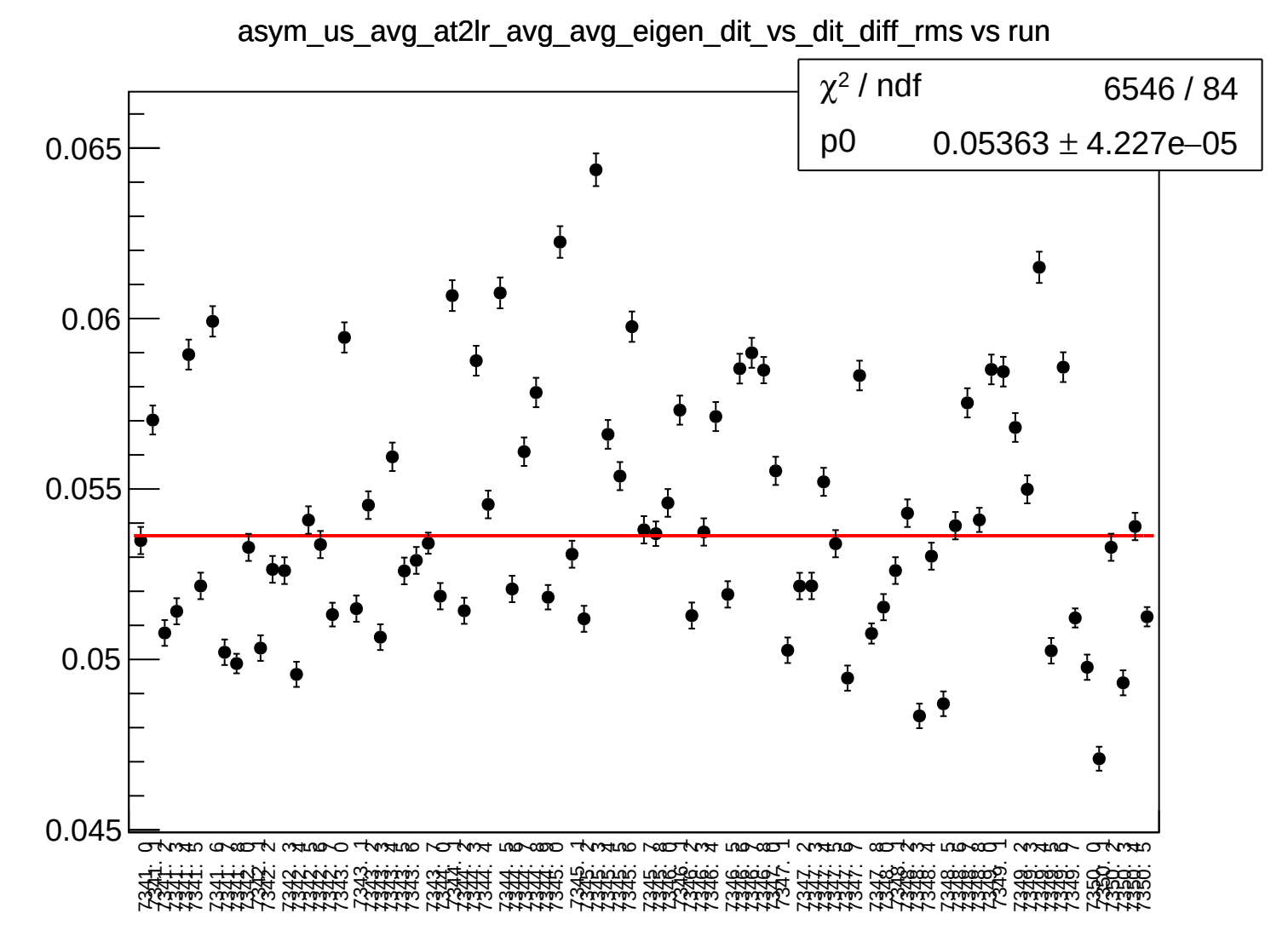

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.92 / 84
p0 0.1354 ± 1.375
pull
Entries 85
Mean −84.02
Std Dev 0

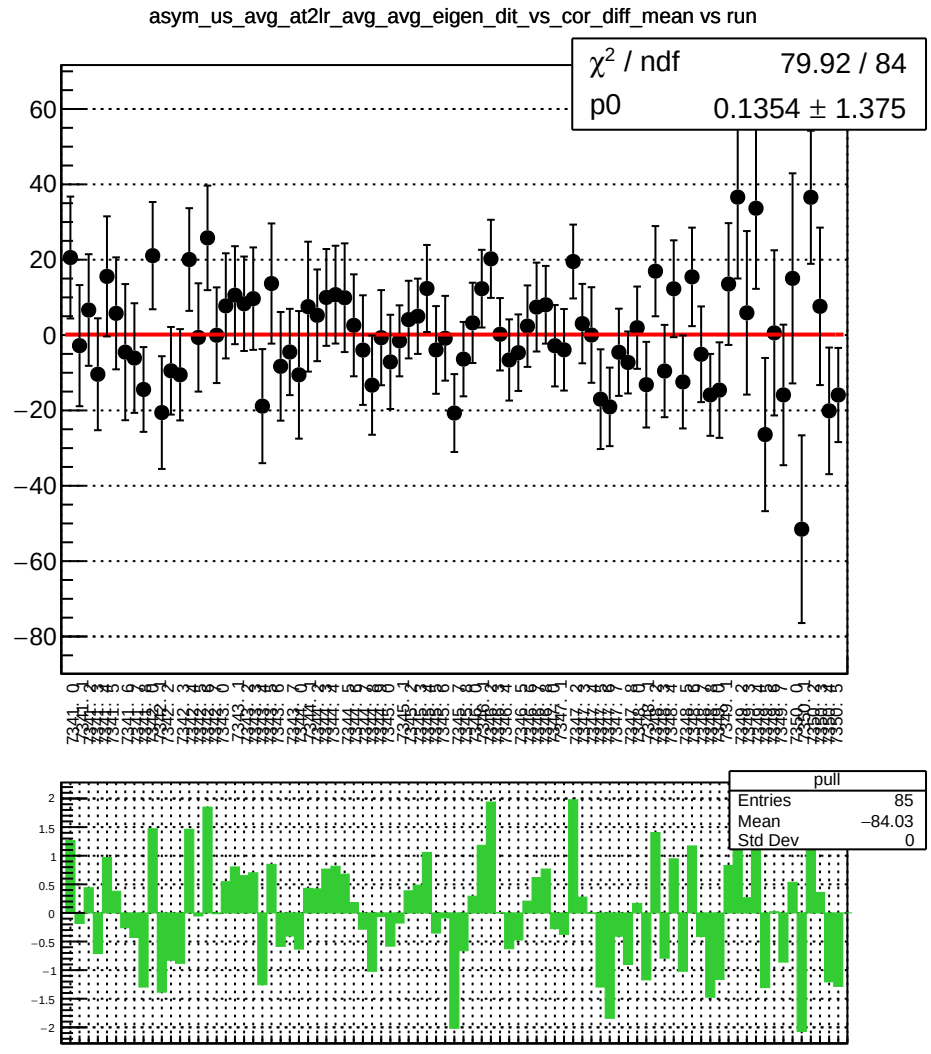

pull1D
Entries 85
Mean 0.02099
Std Dev 0.9694

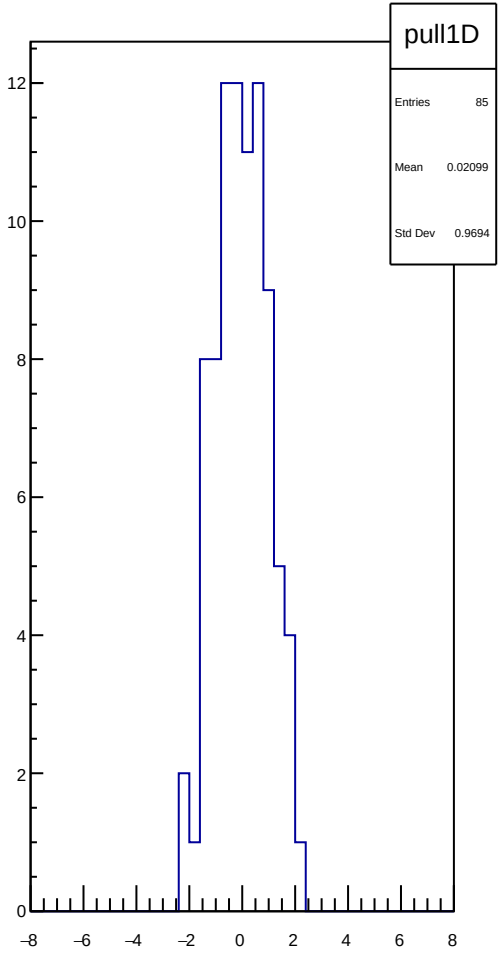

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.394e+04 / 84
p0 1208 ± 0.9724
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

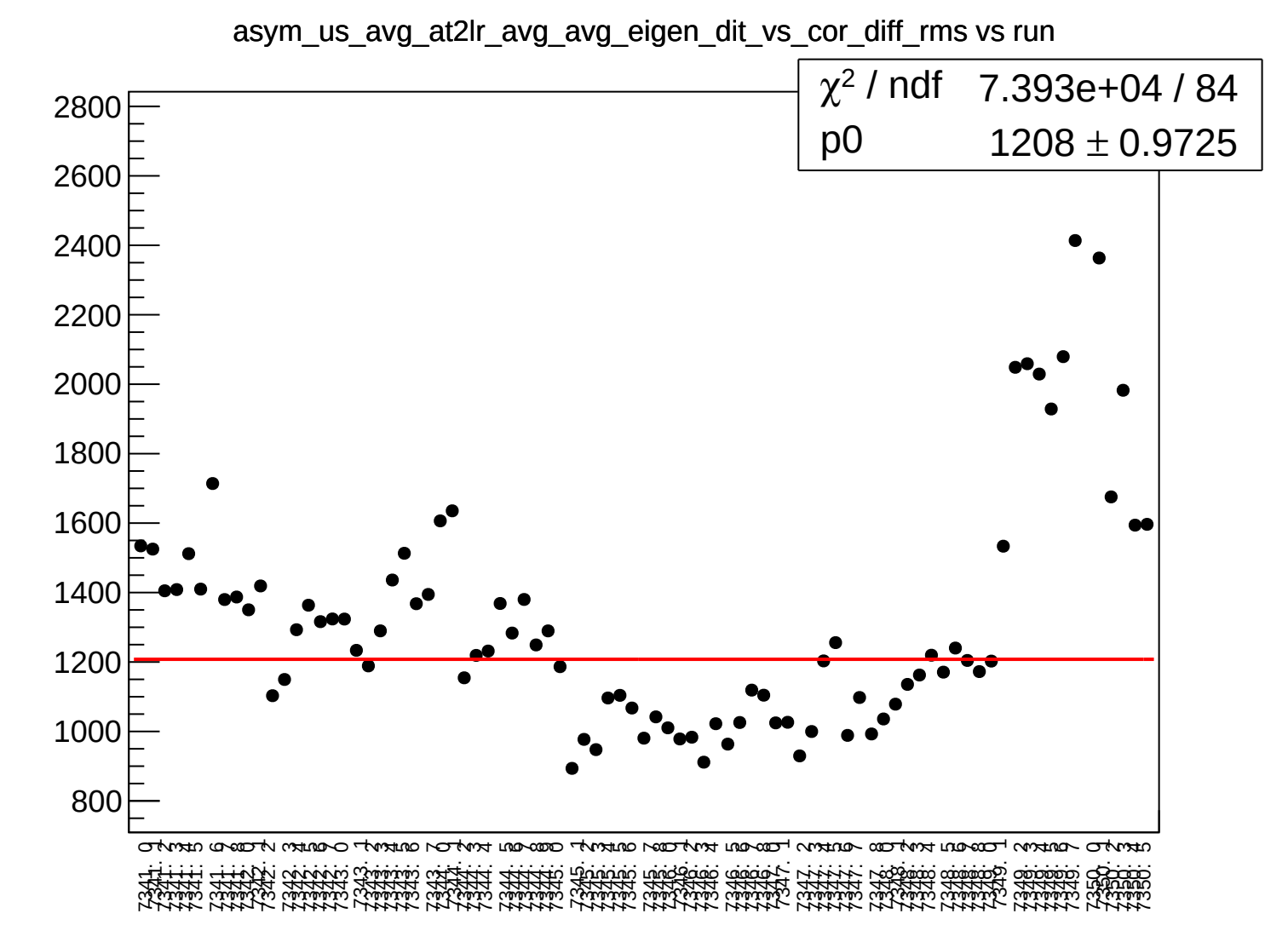

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.08 / 84
p0 −3.176e−05 ± 5.977e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 85
Mean −229.7
Std Dev 0

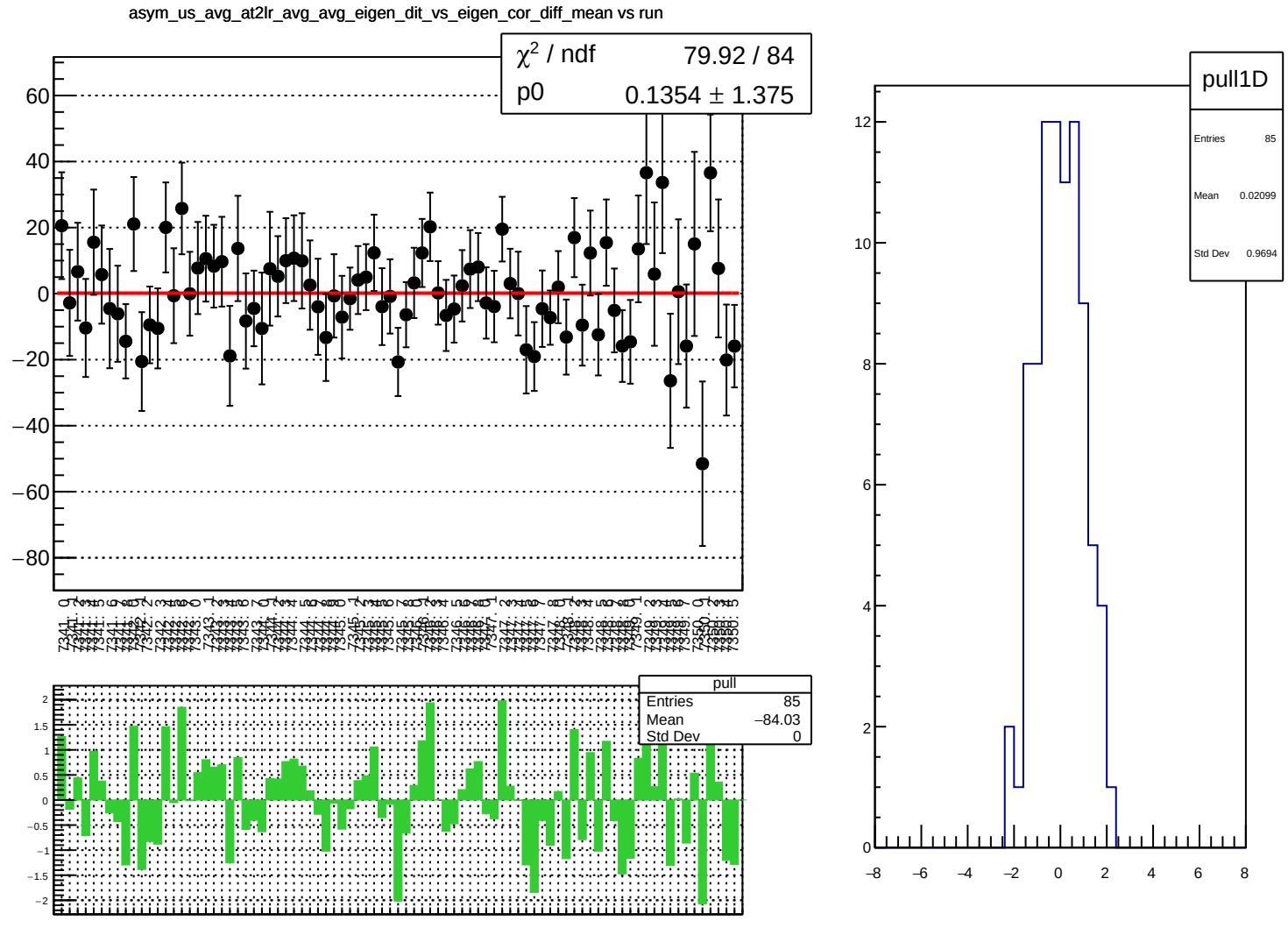

pull1D
Entries 85
Mean 0.01036
Std Dev 0.9398

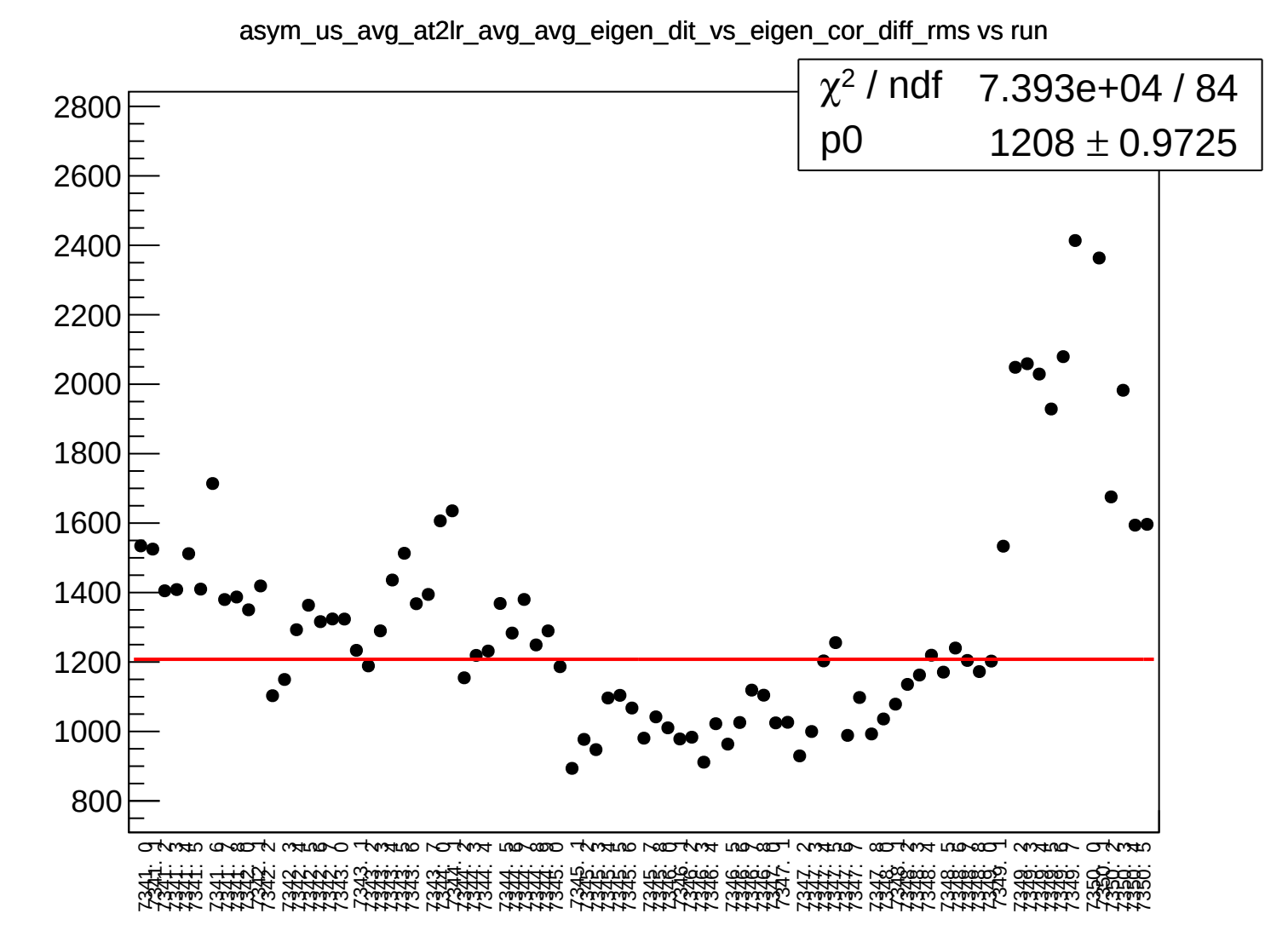

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6546 / 84
p0 0.05363 ± 4.227e–05
0.065
0.06
0.055
0.05
0.045

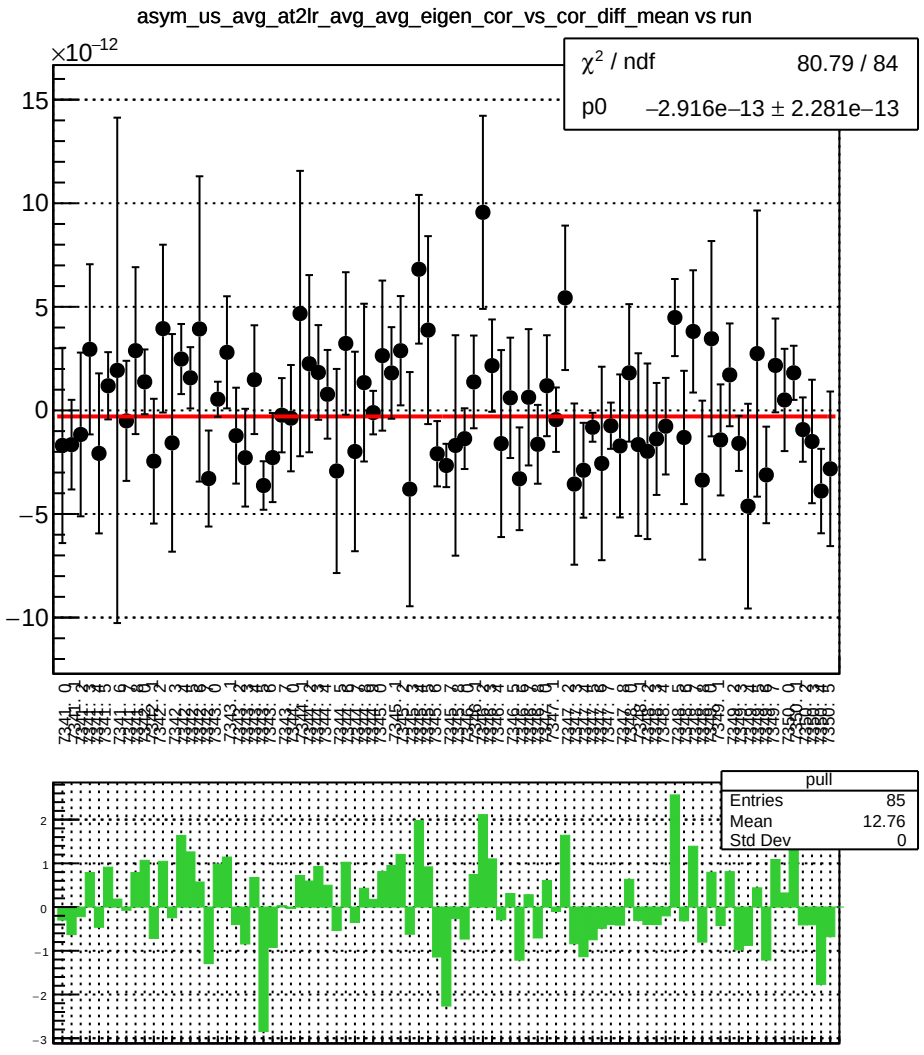

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.92 / 84
p0 0.1354 ± 1.375
pull
Entries 85
Mean −84.03
Std Dev 0

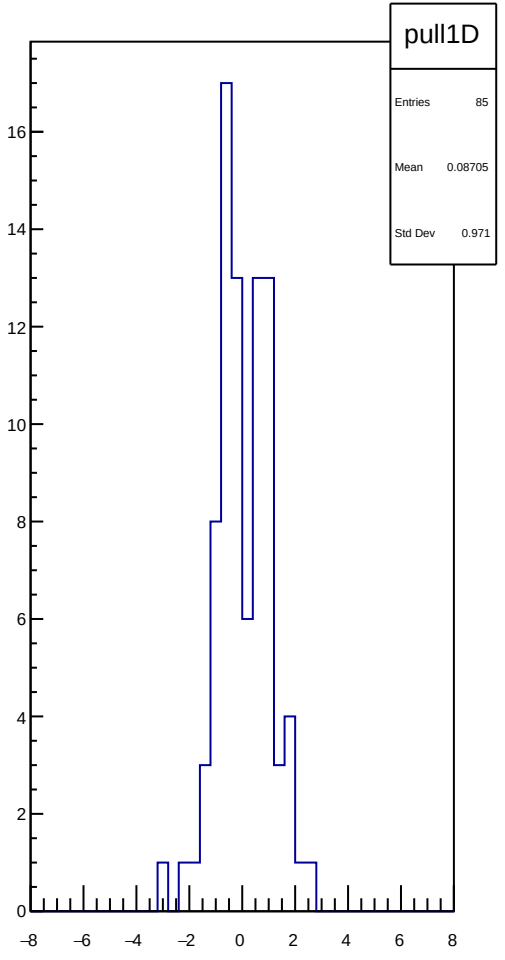

pull1D
Entries 85
Mean 0.02099
Std Dev 0.9694

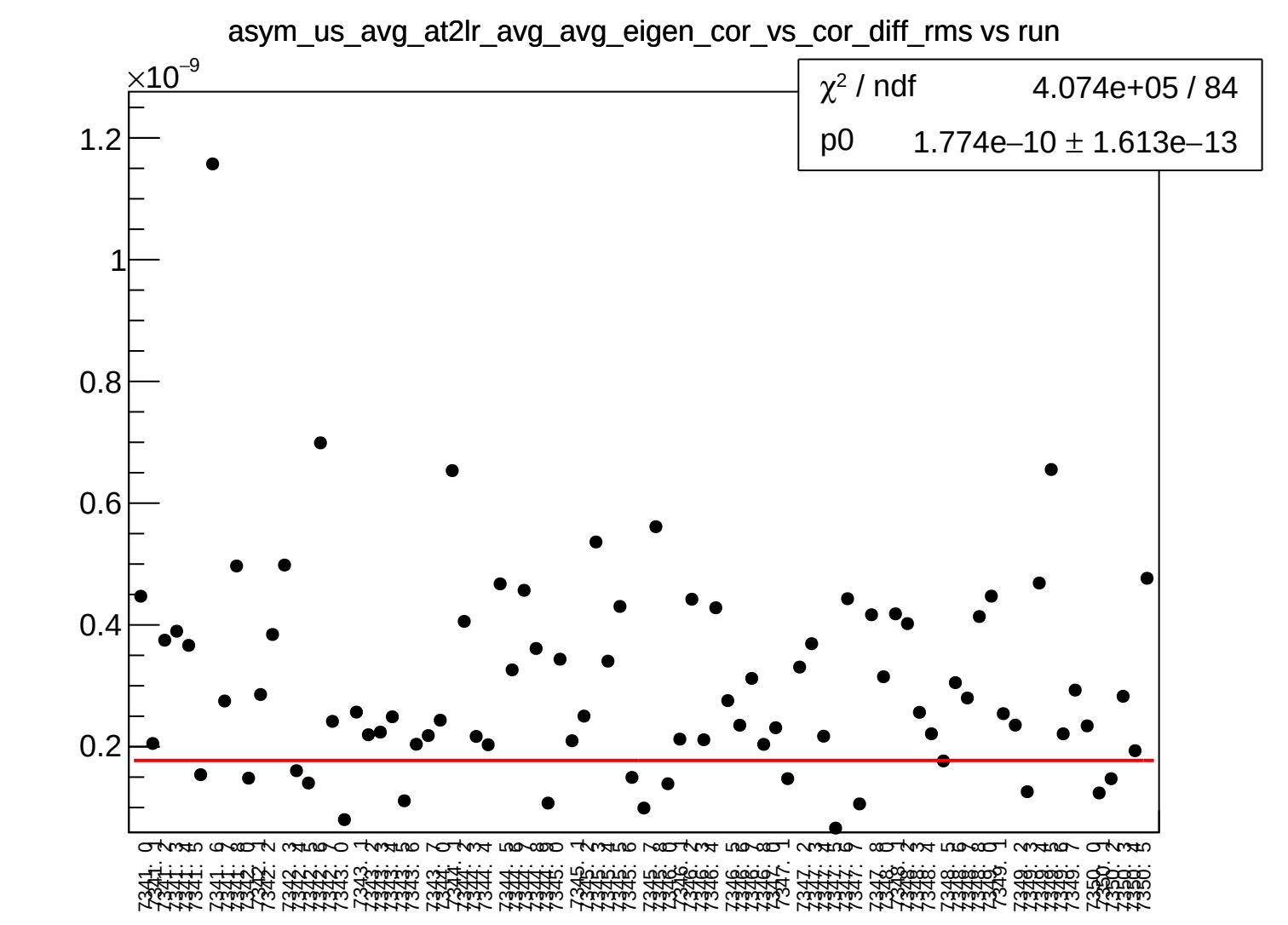

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.393e+04 / 84
p0 1208 ± 0.9725
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

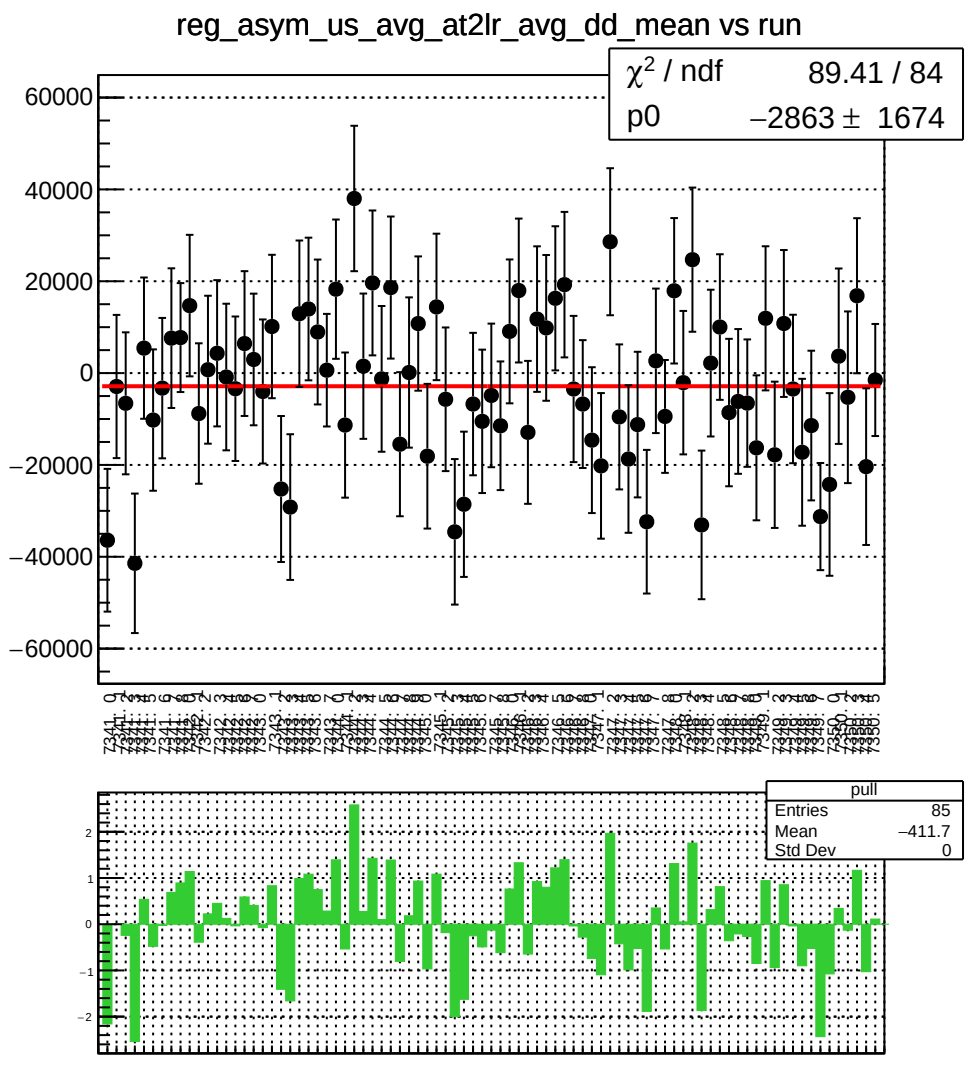

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.92 / 84
p0 0.1354 ± 1.375
pull
Entries 85
Mean −84.03
Std Dev 0
pull1D
Entries 85
Mean 0.02099
Std Dev 0.9694

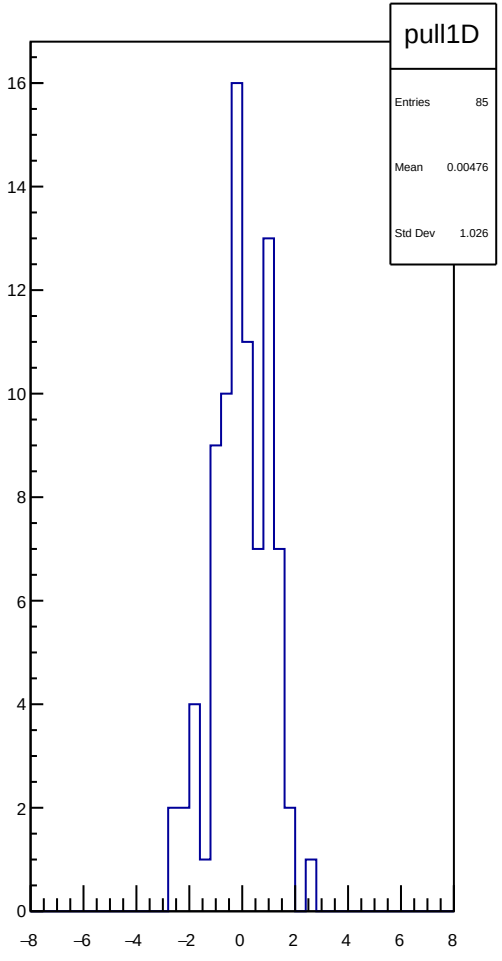

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.393e+04 / 84
p0 1208 ± 0.9725
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

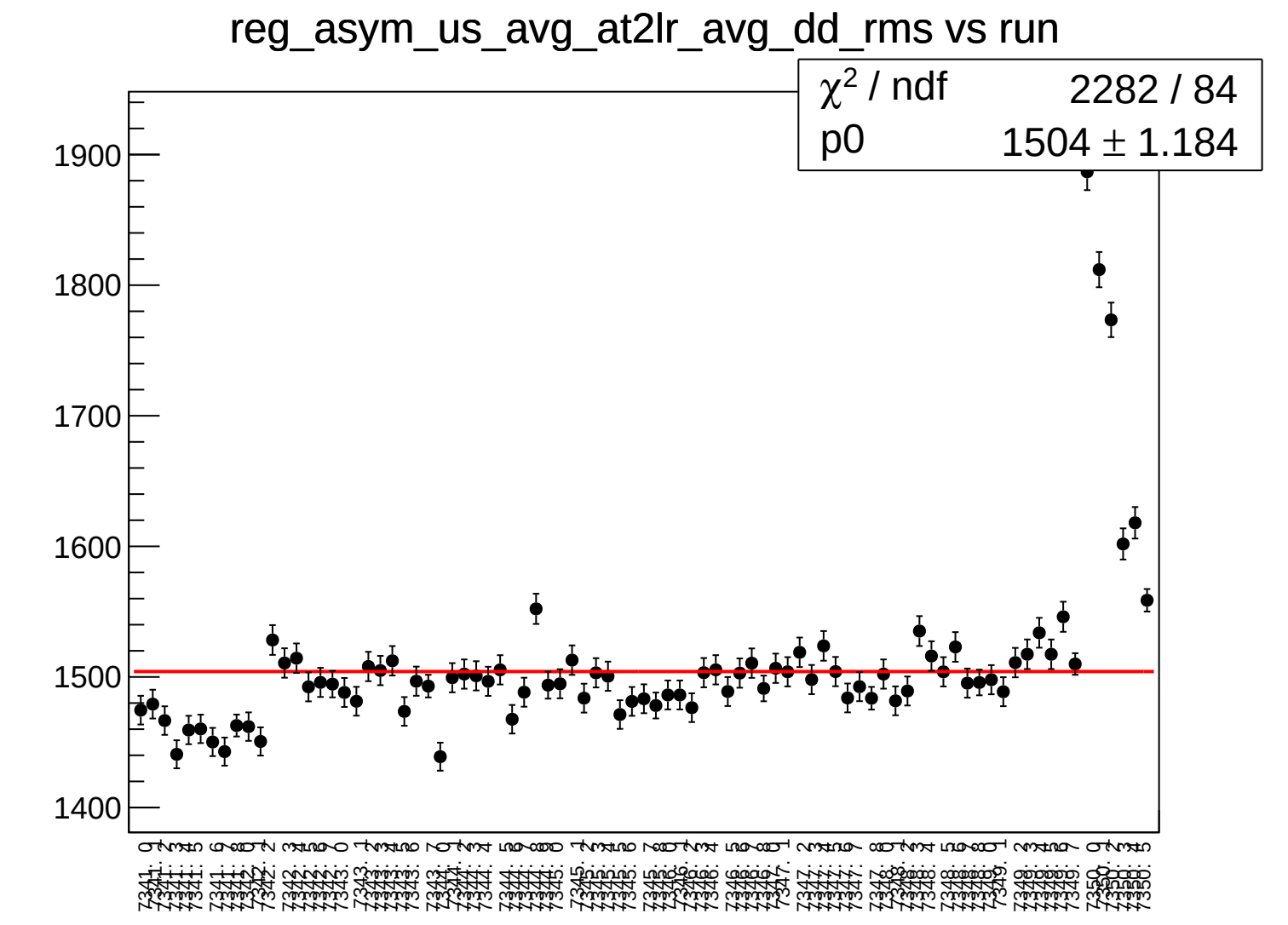

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.79 / 84
p0 −2.916e−13 ± 2.281e−13
pull
Entries 85
Mean 12.76
Std Dev 0

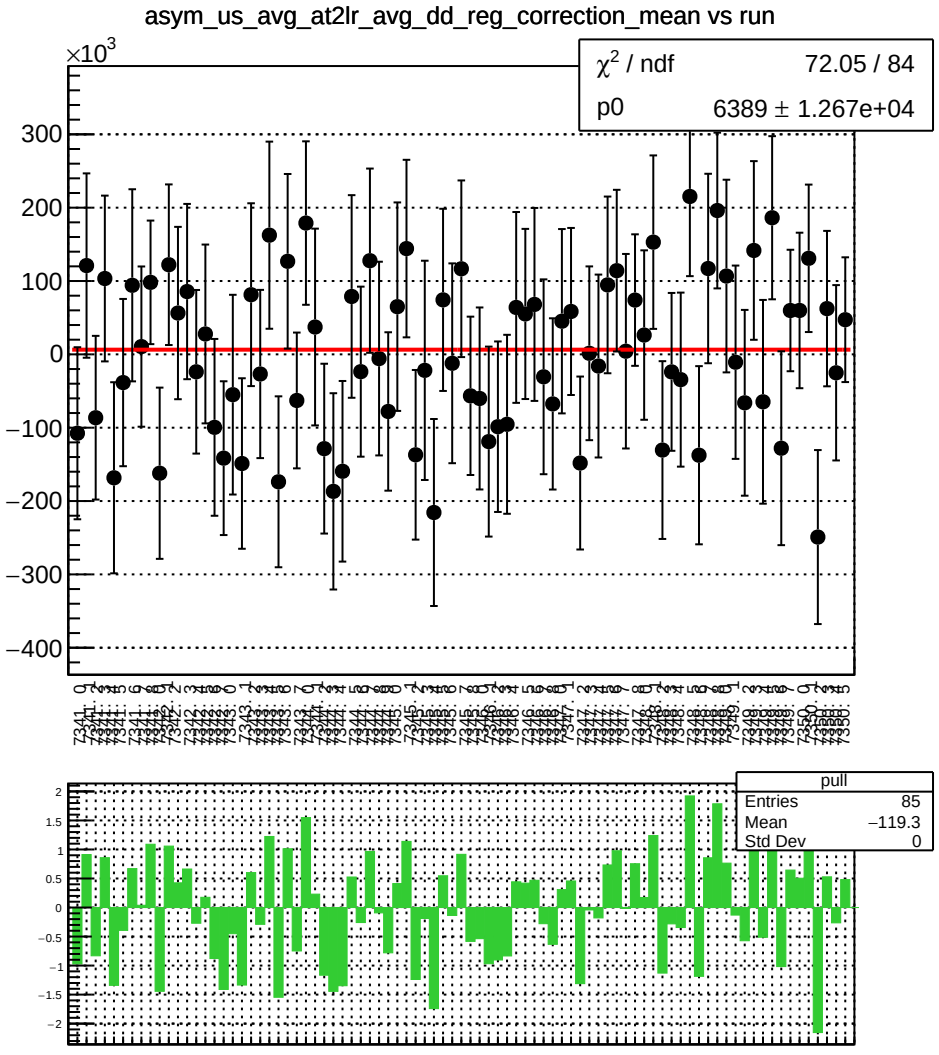

pull1D
Entries 85
Mean 0.08705
Std Dev 0.971

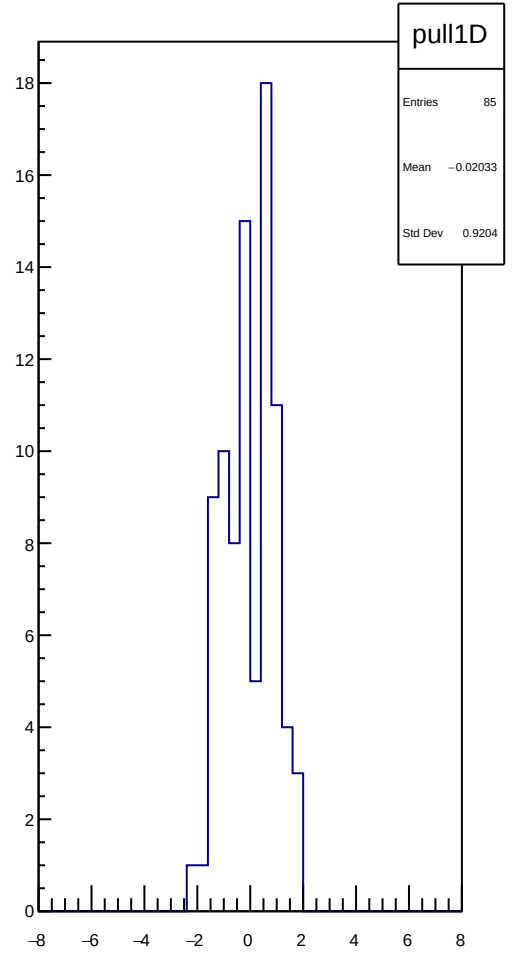

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.074e+05 / 84
p0 1.774e−10 ± 1.613e−13
1.2
1
0.8
0.6
0.4
0.2

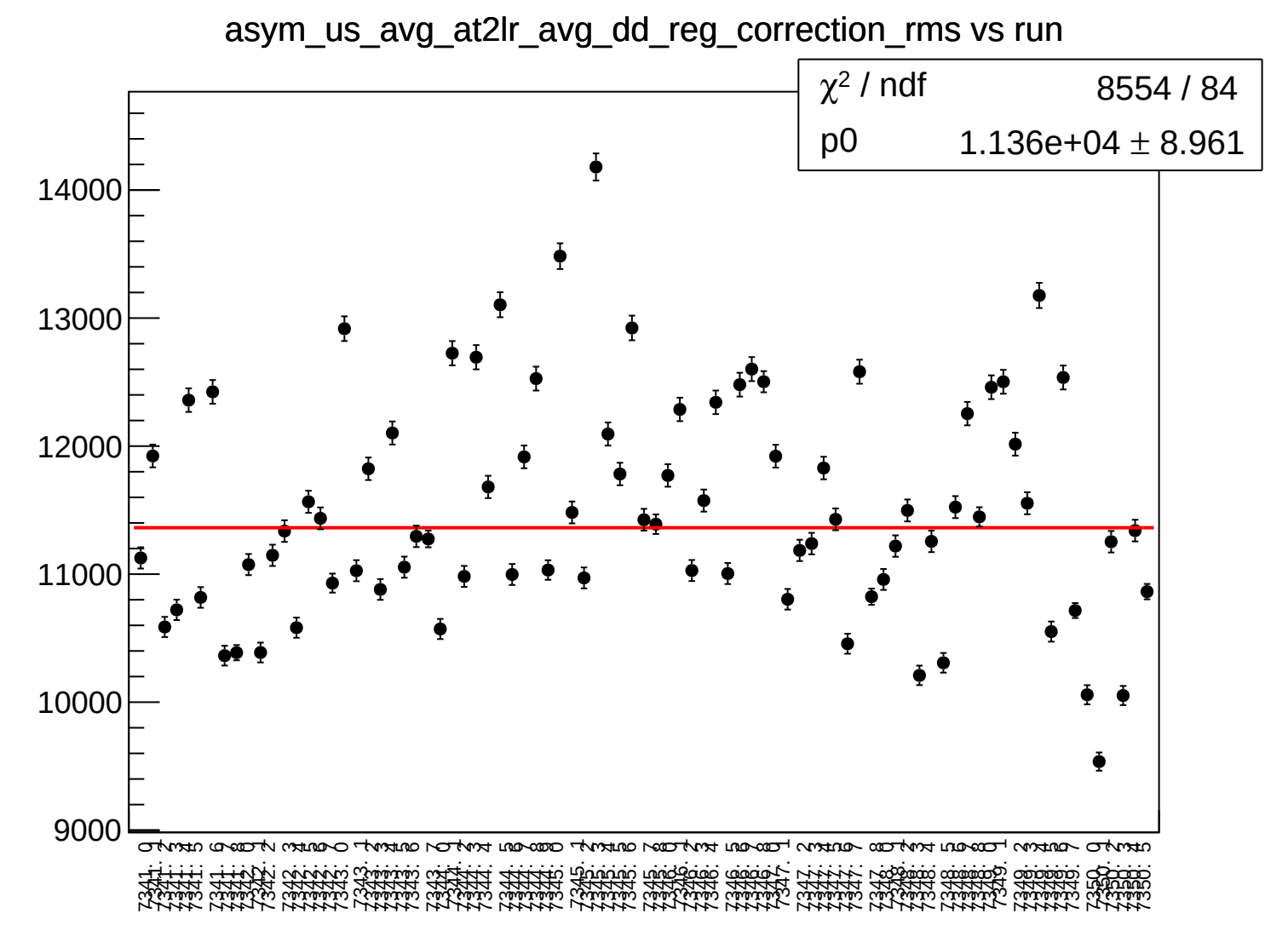

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.41 / 84
p0 −2863 ± 1674
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −411.7
Std Dev 0
2
1
0
−1
−2

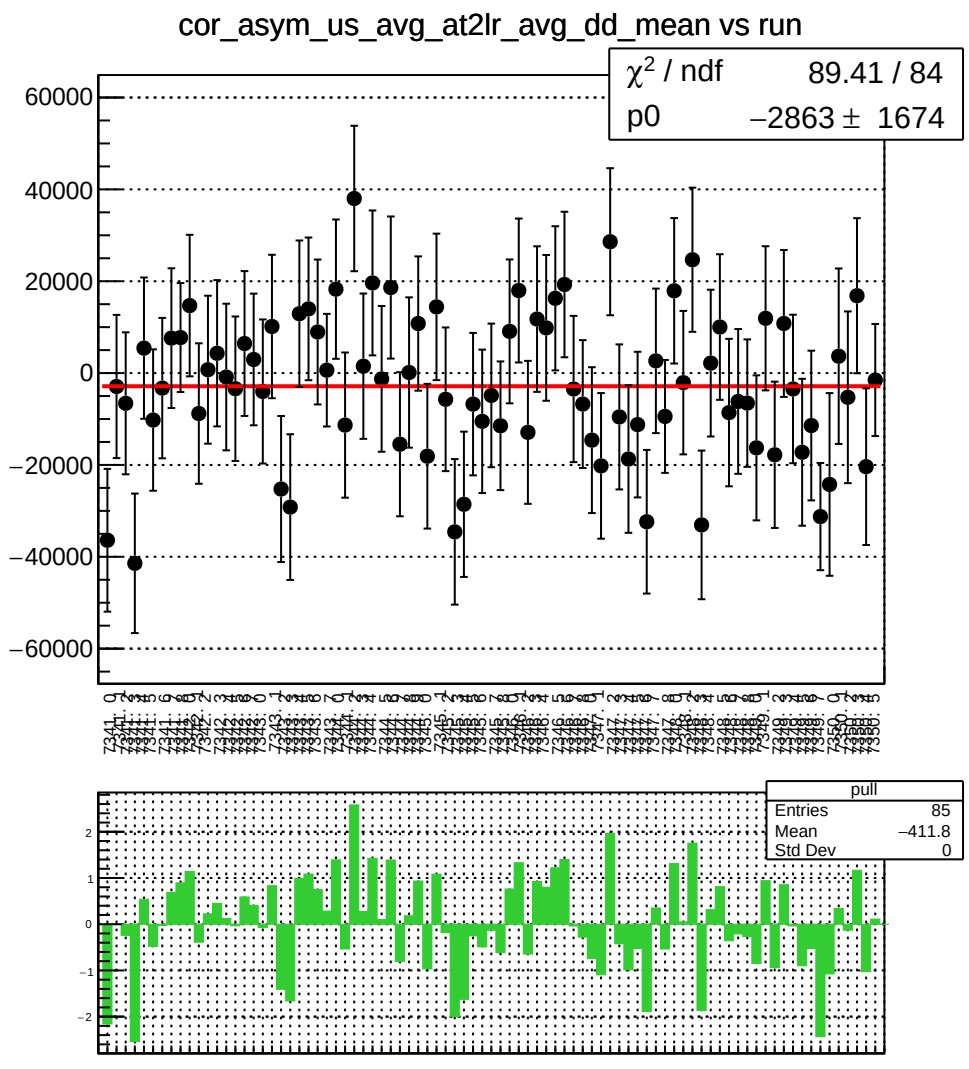

pull1D
Entries 85
Mean 0.00476
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

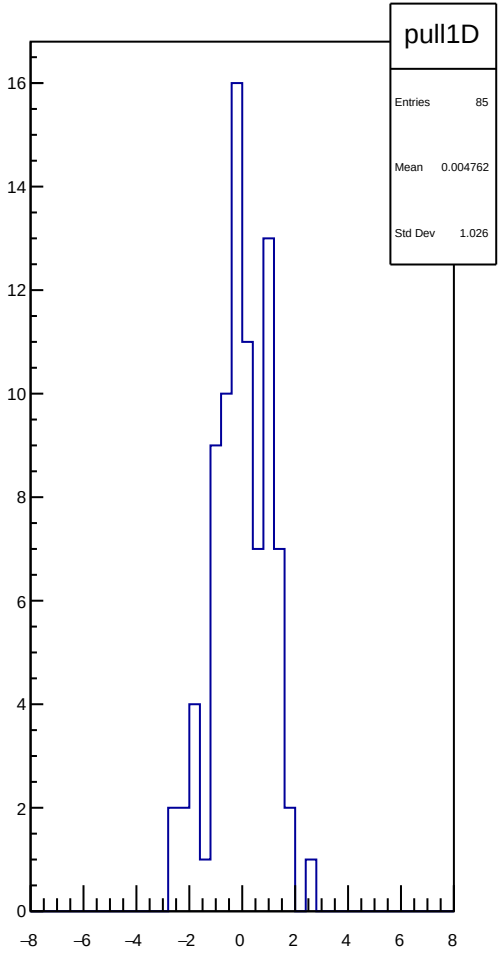

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 2282 / 84
p0 1504 ± 1.184
1900
1800
1700
1600
1500
1400

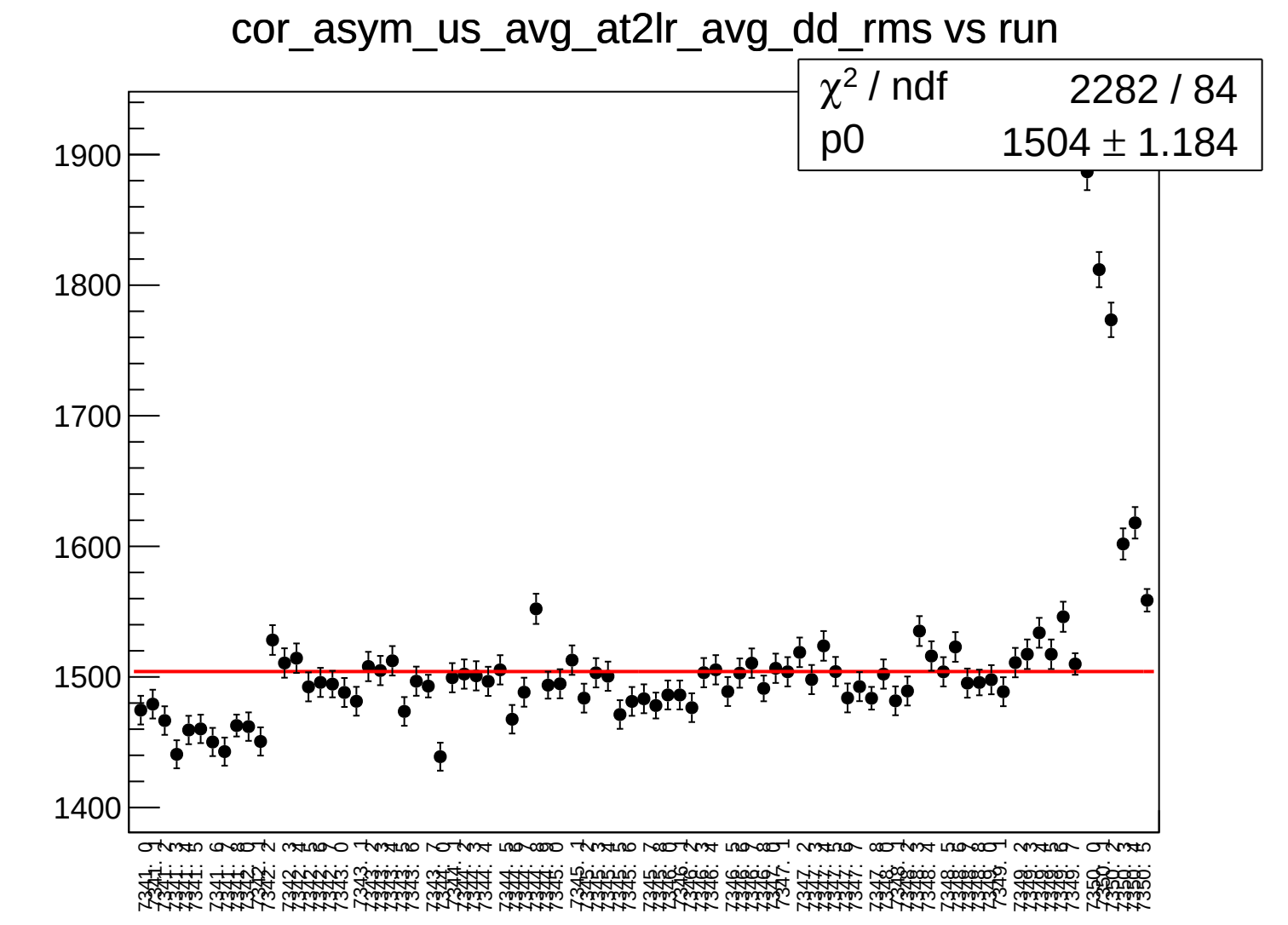

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 72.05 / 84
p0 6389 ± 1.267e+04
pull
Entries 85
Mean −119.3
Std Dev 0

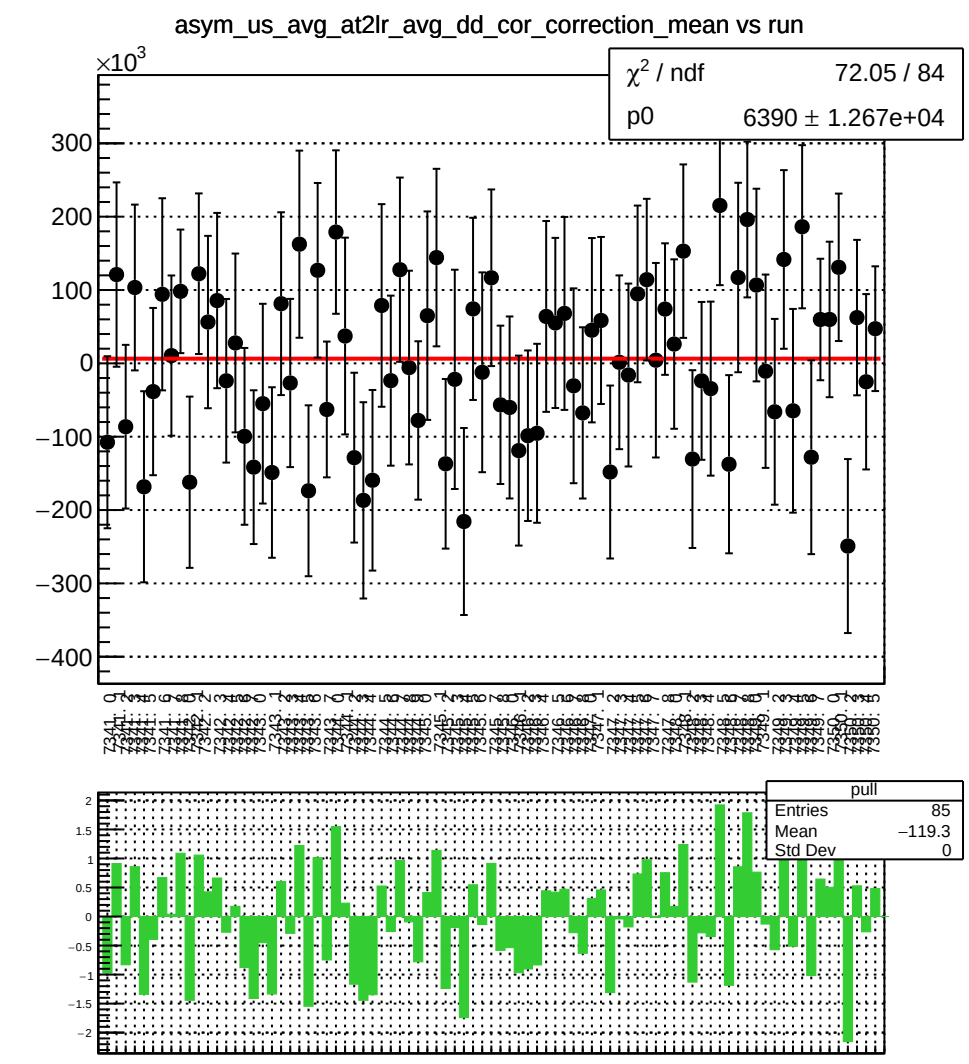

pull1D
Entries 85
Mean −0.02033
Std Dev 0.9204

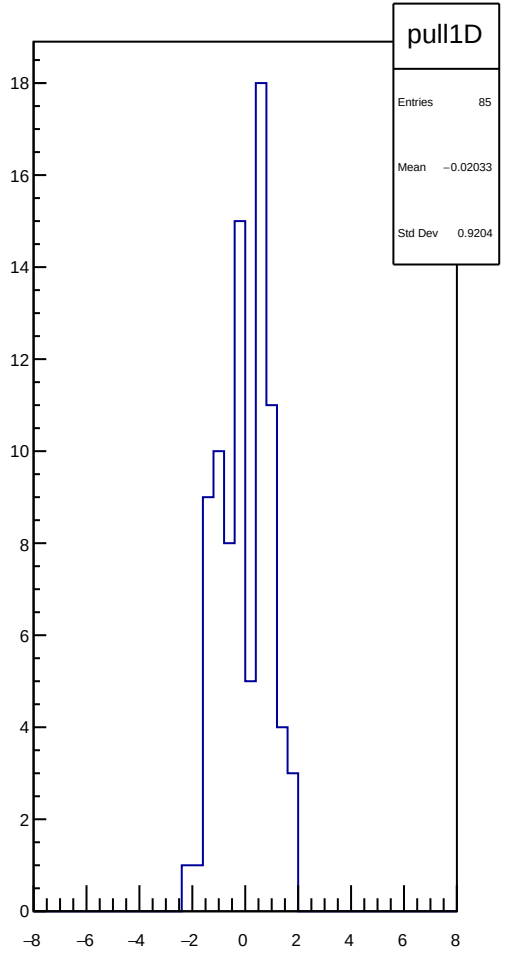

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 8554 / 84
p0 1.136e+04 ± 8.961
14000
13000
12000
11000
10000
9000

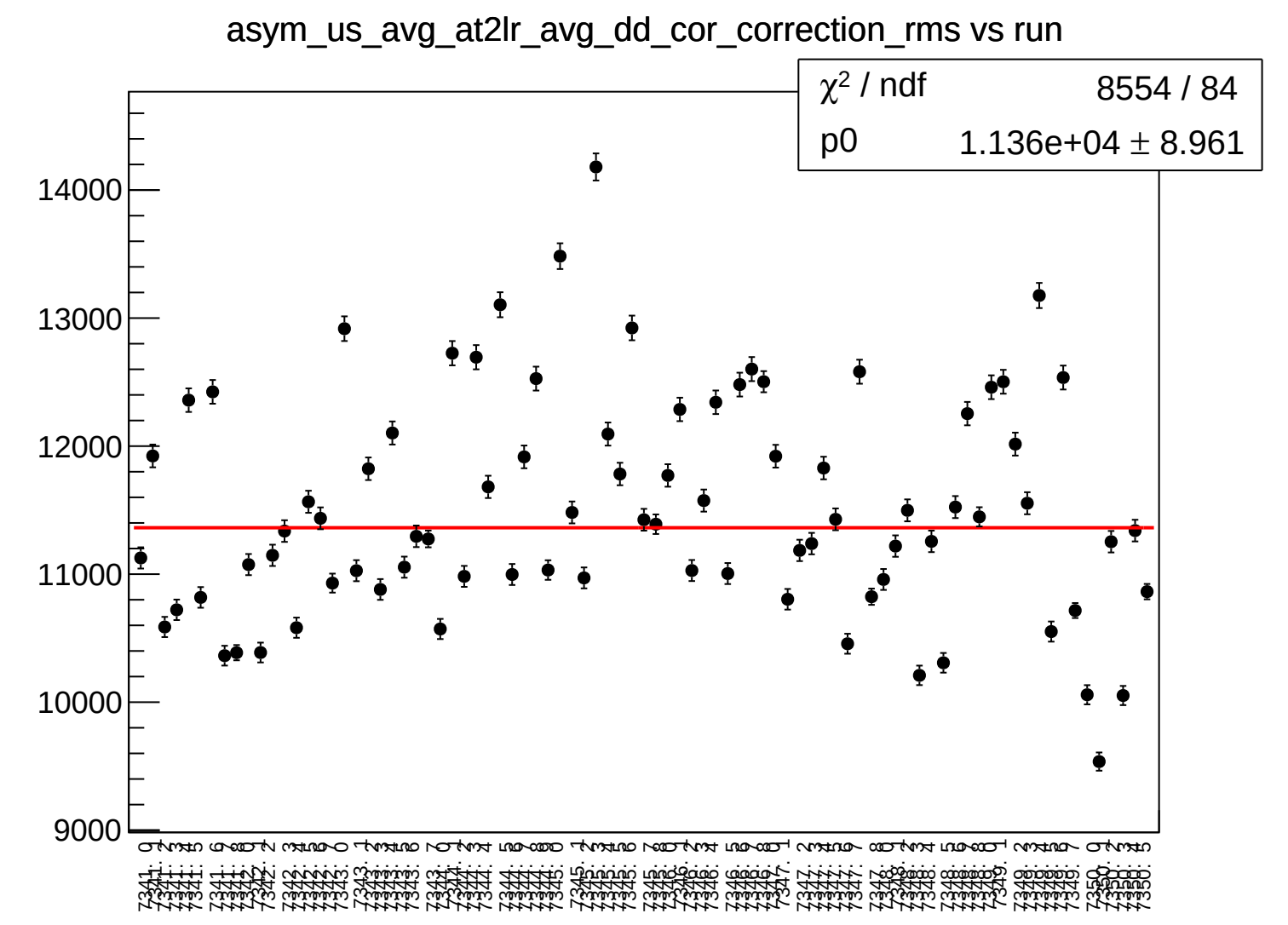

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.41 / 84
p0 −2863 ± 1674
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −411.8
Std Dev 0
2
1
0
−1
−2

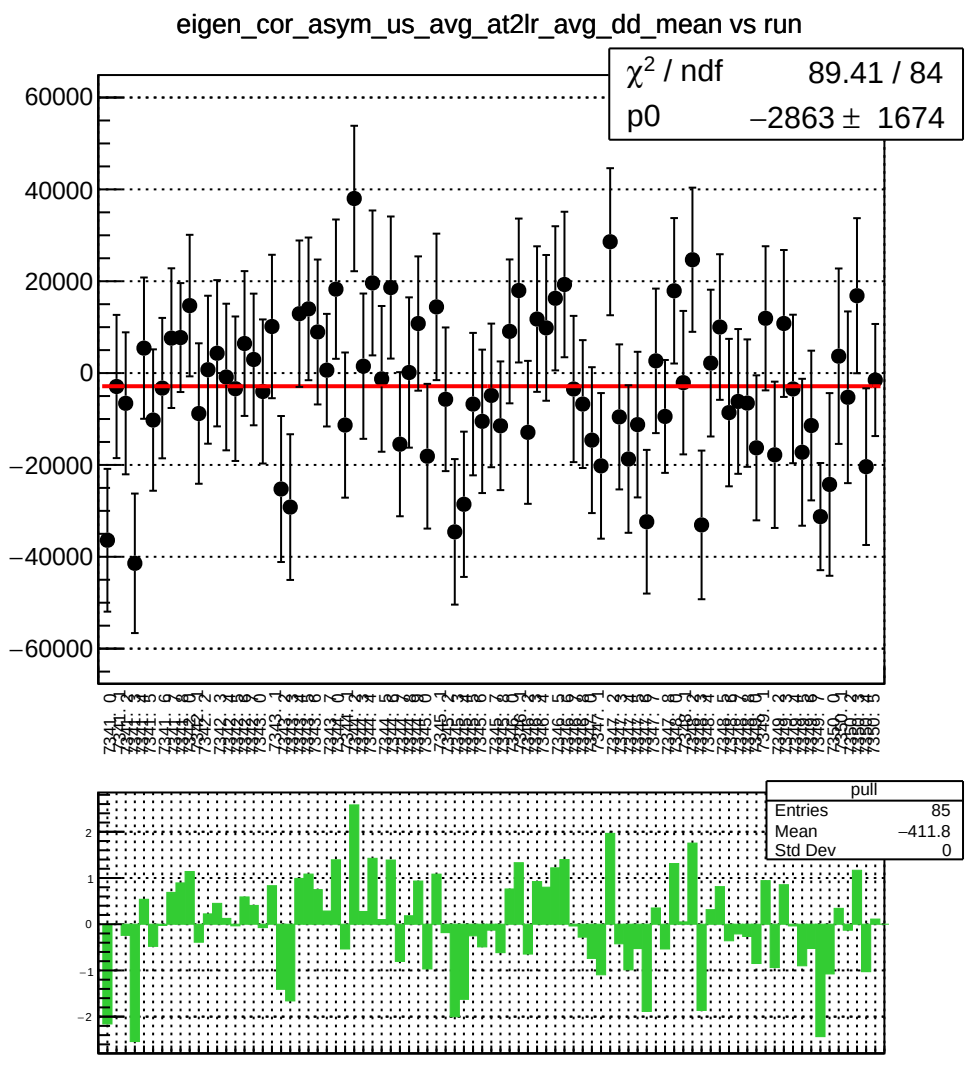

pull1D
Entries 85
Mean 0.004762
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

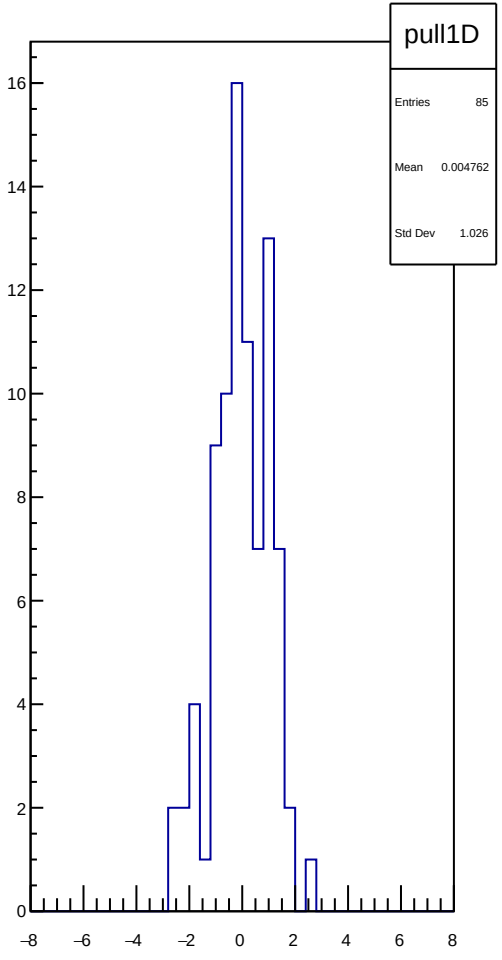

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2282 / 84
p0 1504 ± 1.184
1900
1800
1700
1600
1500
1400


asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 72.05 / 84
p0 6390 ± 1.267e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 85
Mean −119.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 85
Mean −0.02033
Std Dev 0.9204
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 8554 / 84
p0 1.136e+04 ± 8.961
14000
13000
12000
11000
10000
9000


eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 89.41 / 84
p0 −2863 ± 1674
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −411.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 85
Mean 0.004762
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
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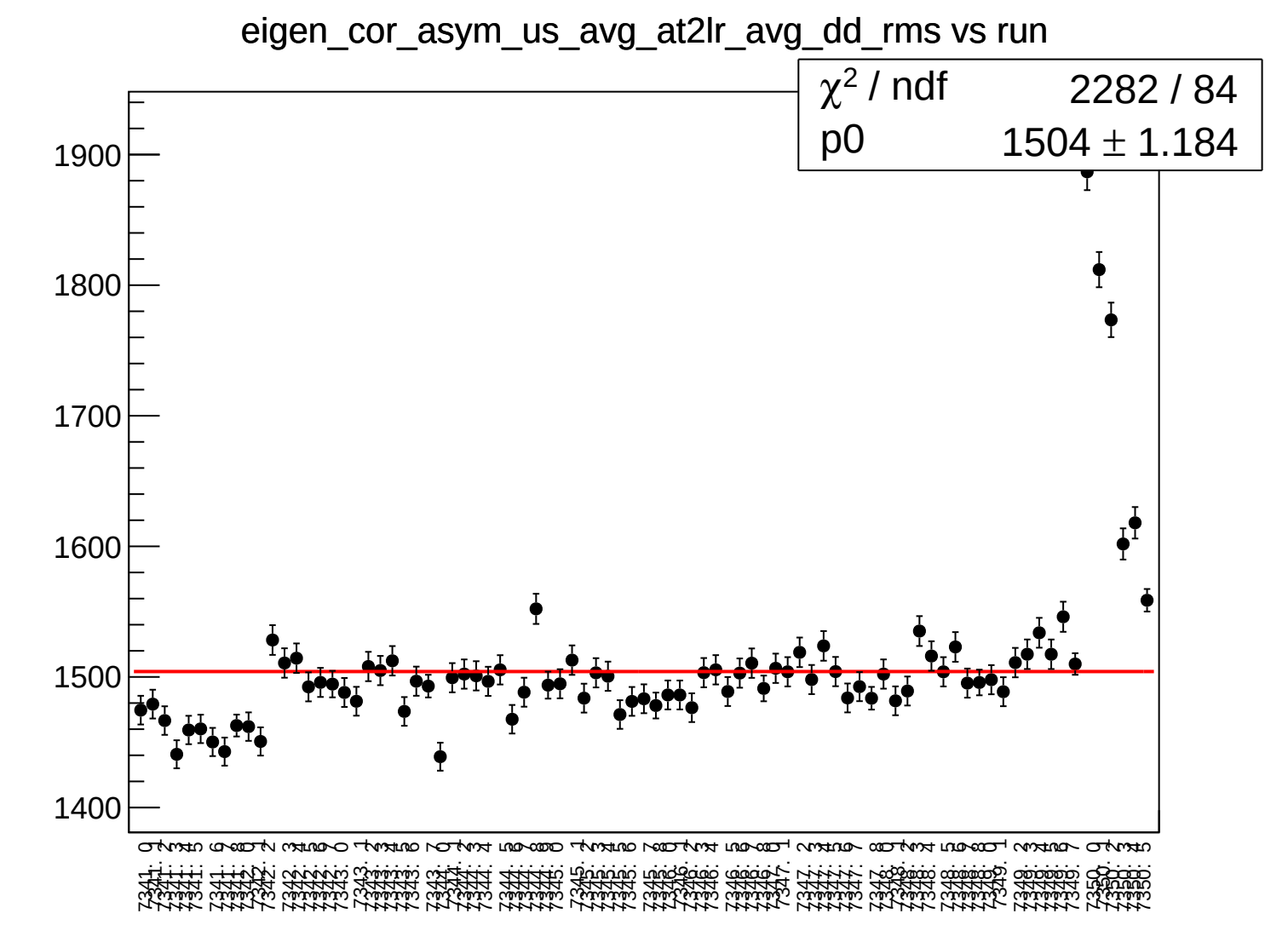
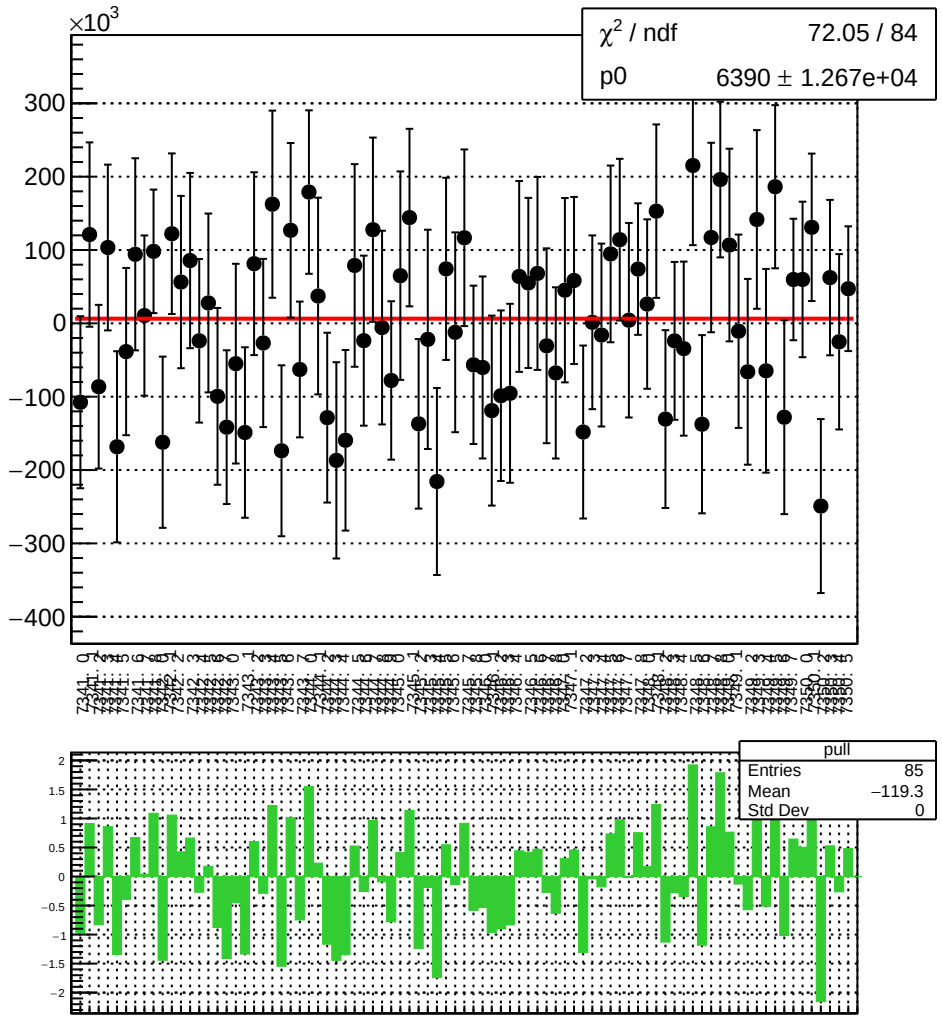
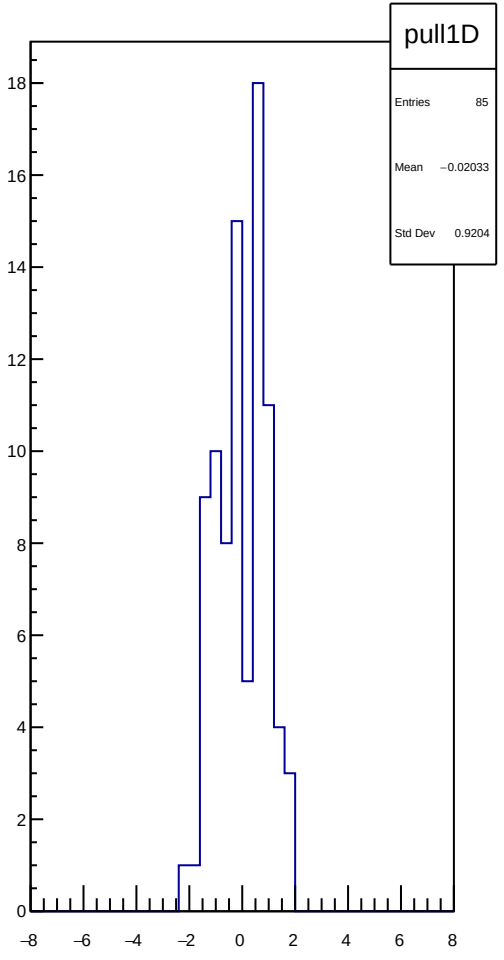
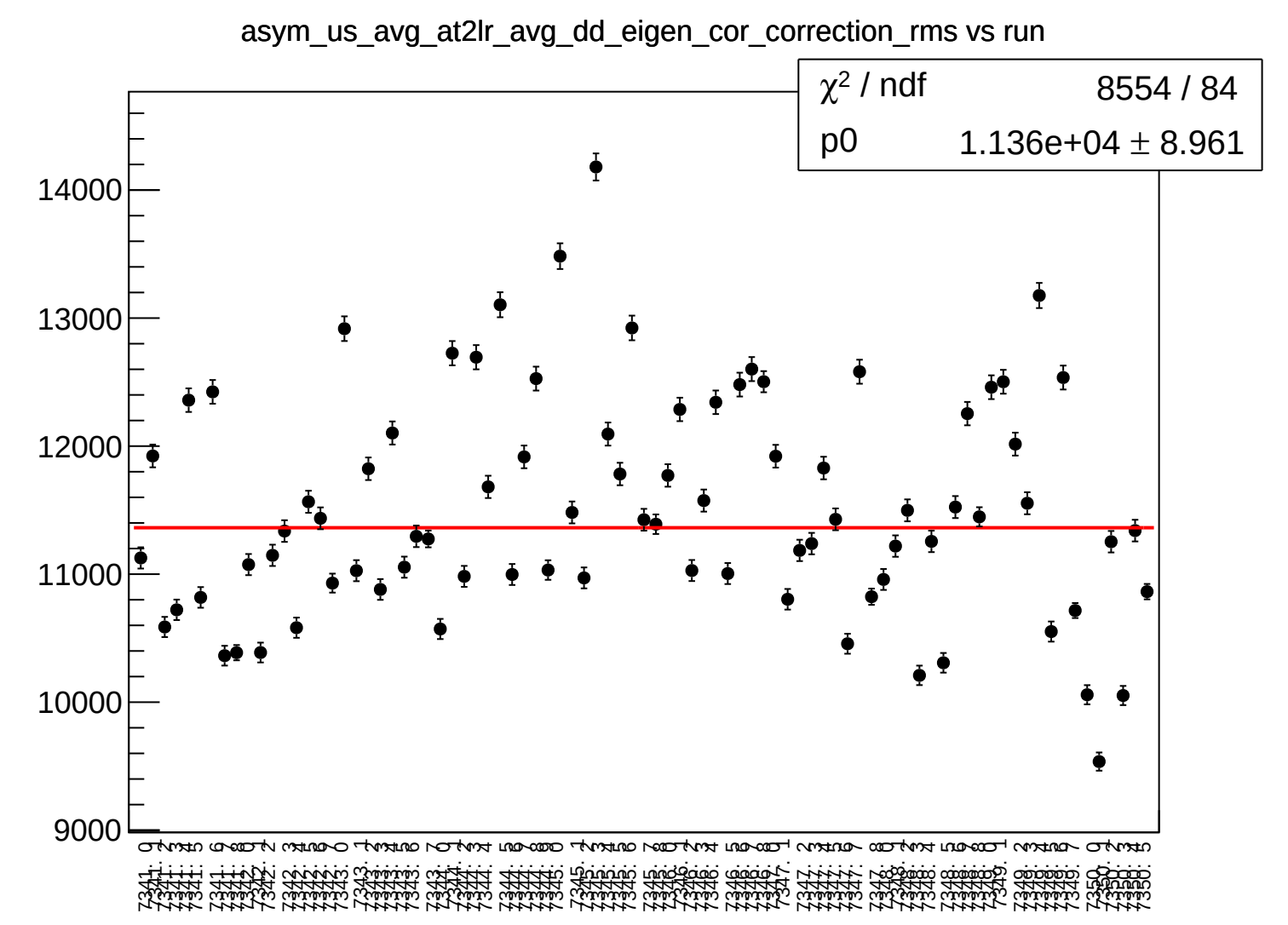
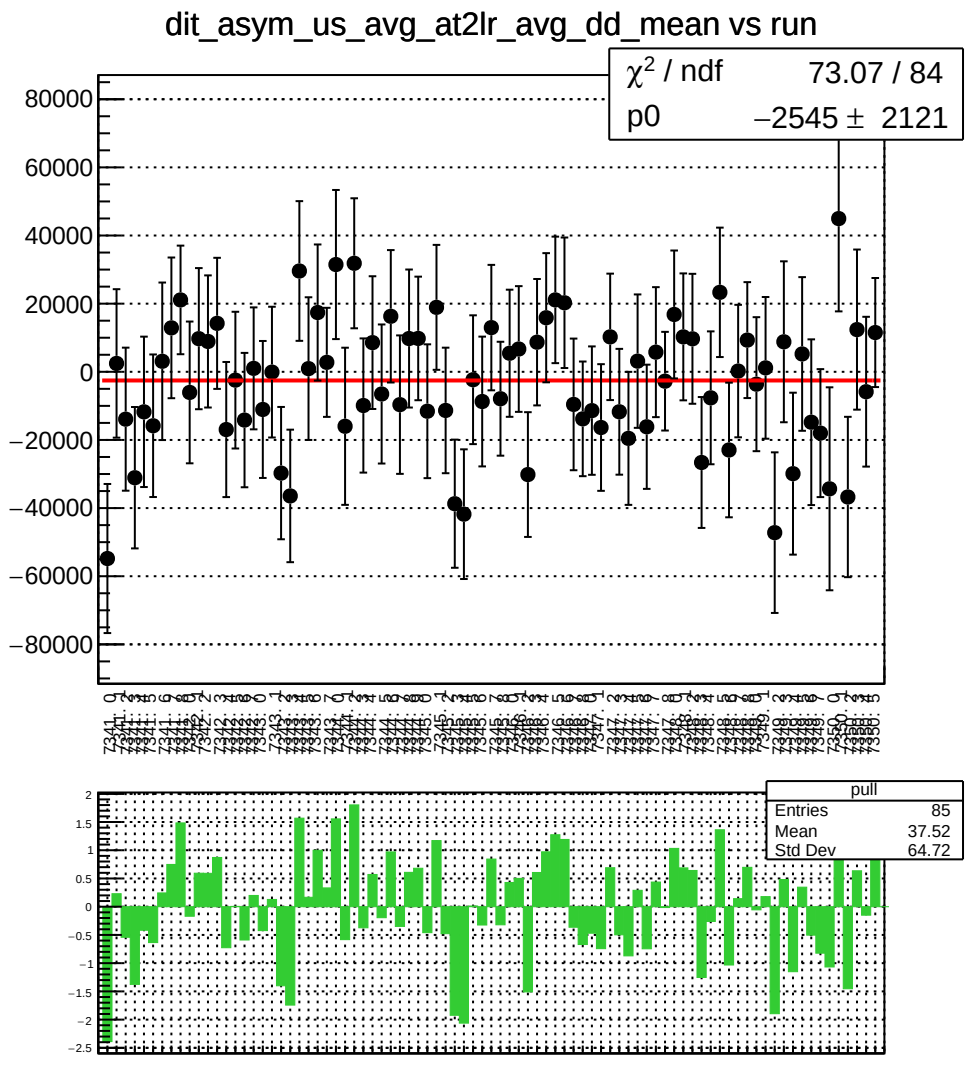
0
2
4
6
8

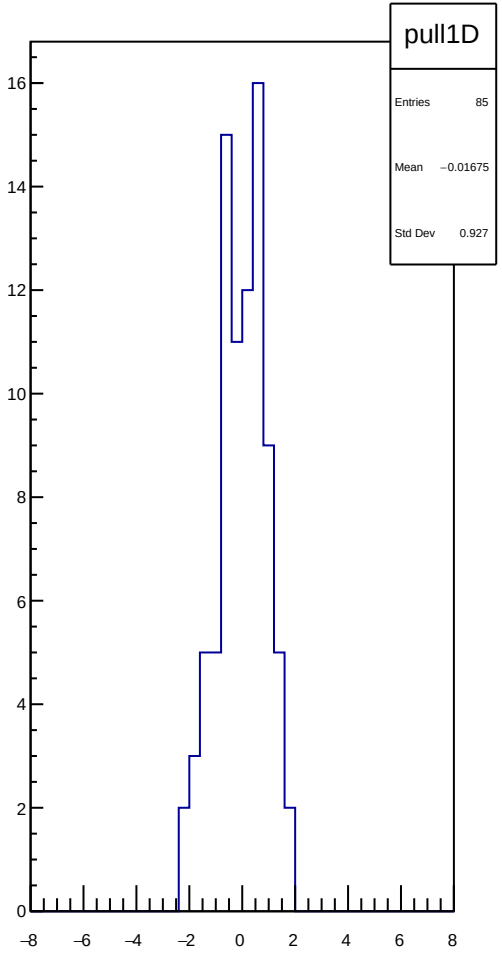

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2282 / 84
p0 1504 ± 1.184
1900
1800
1700
1600
1500
1400

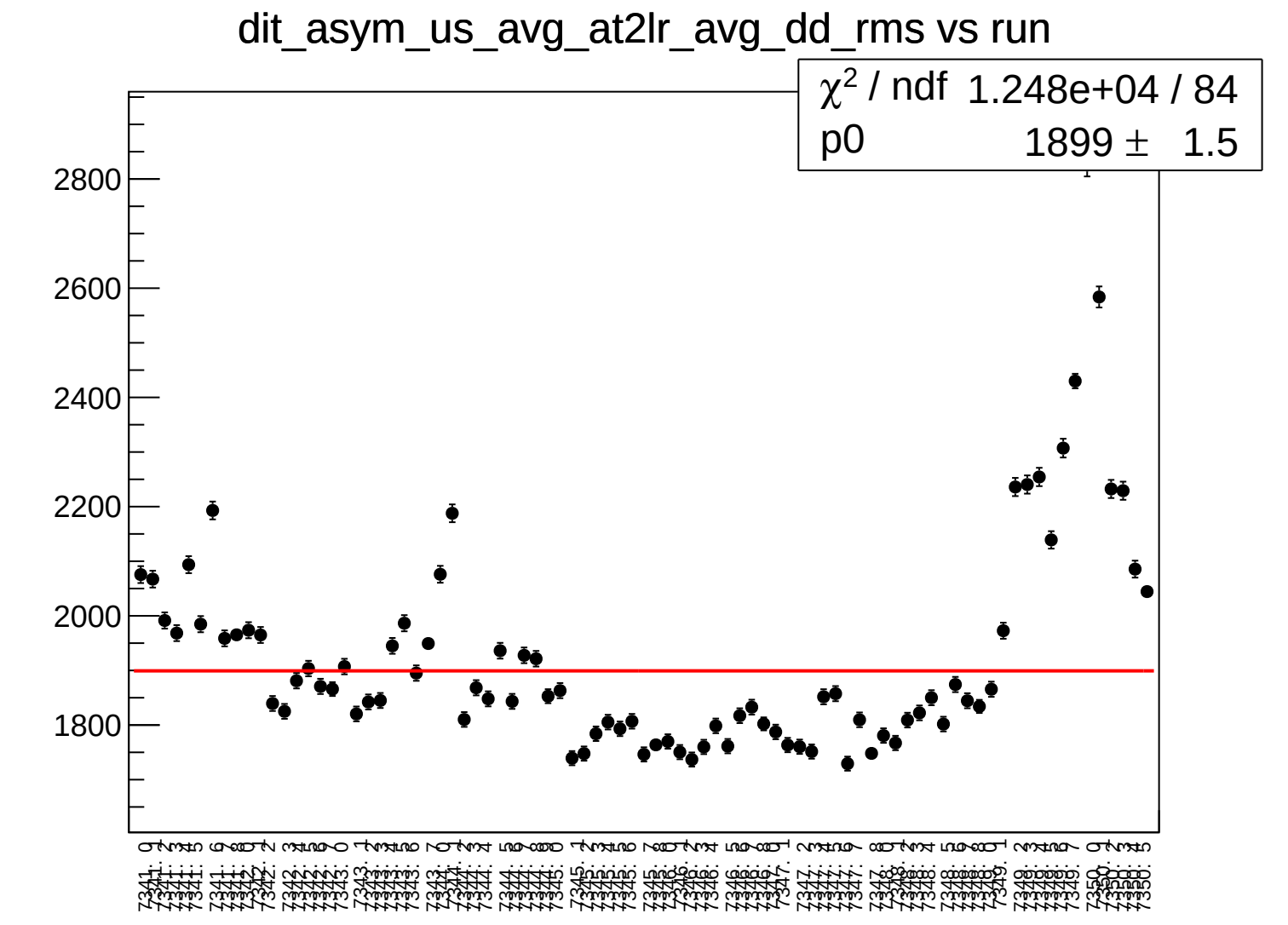

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.05 / 84
p0 6390 ± 1.267e+04
pull
Entries 85
Mean −119.3
Std Dev 0

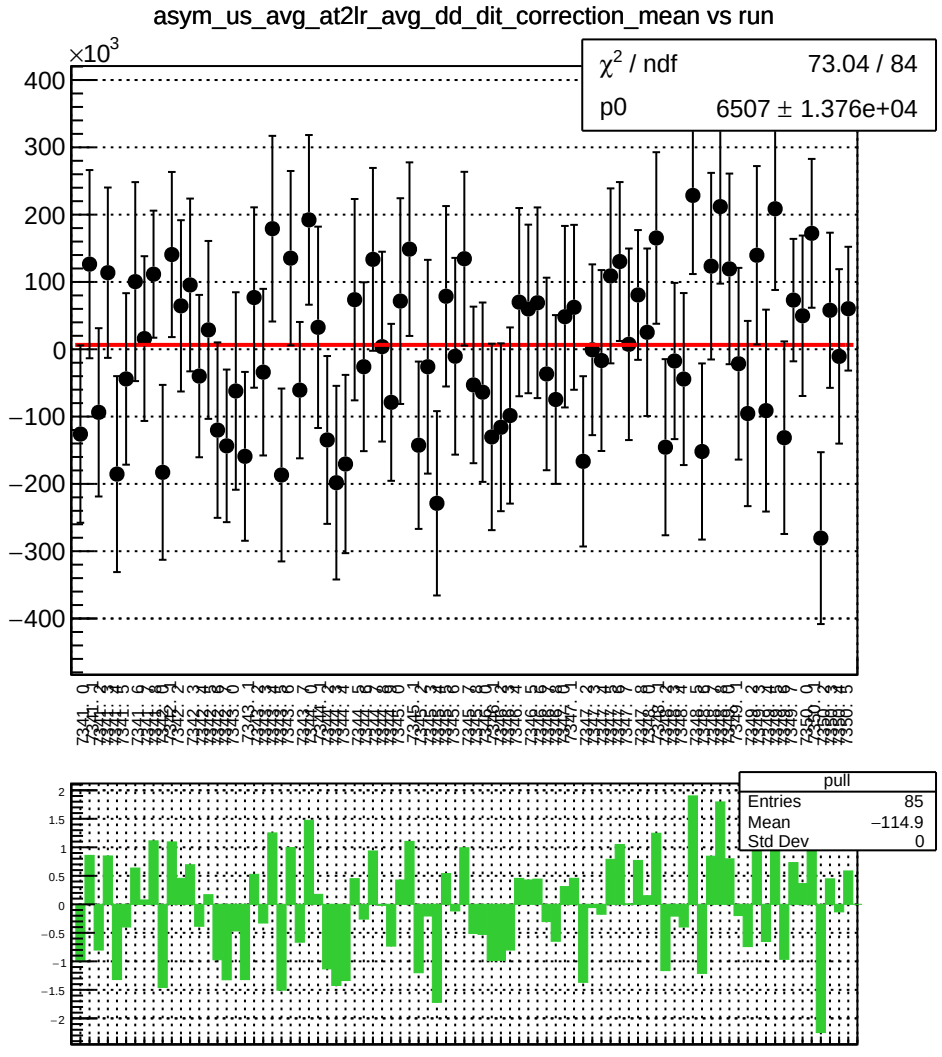

pull1D
Entries 85
Mean −0.02033
Std Dev 0.9204

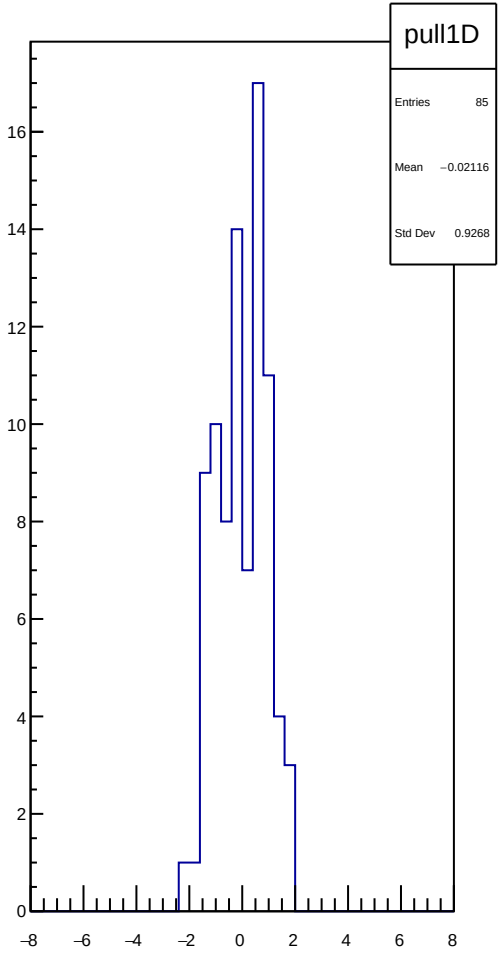

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8554 / 84
p0 1.136e+04 ± 8.961
14000
13000
12000
11000
10000
9000

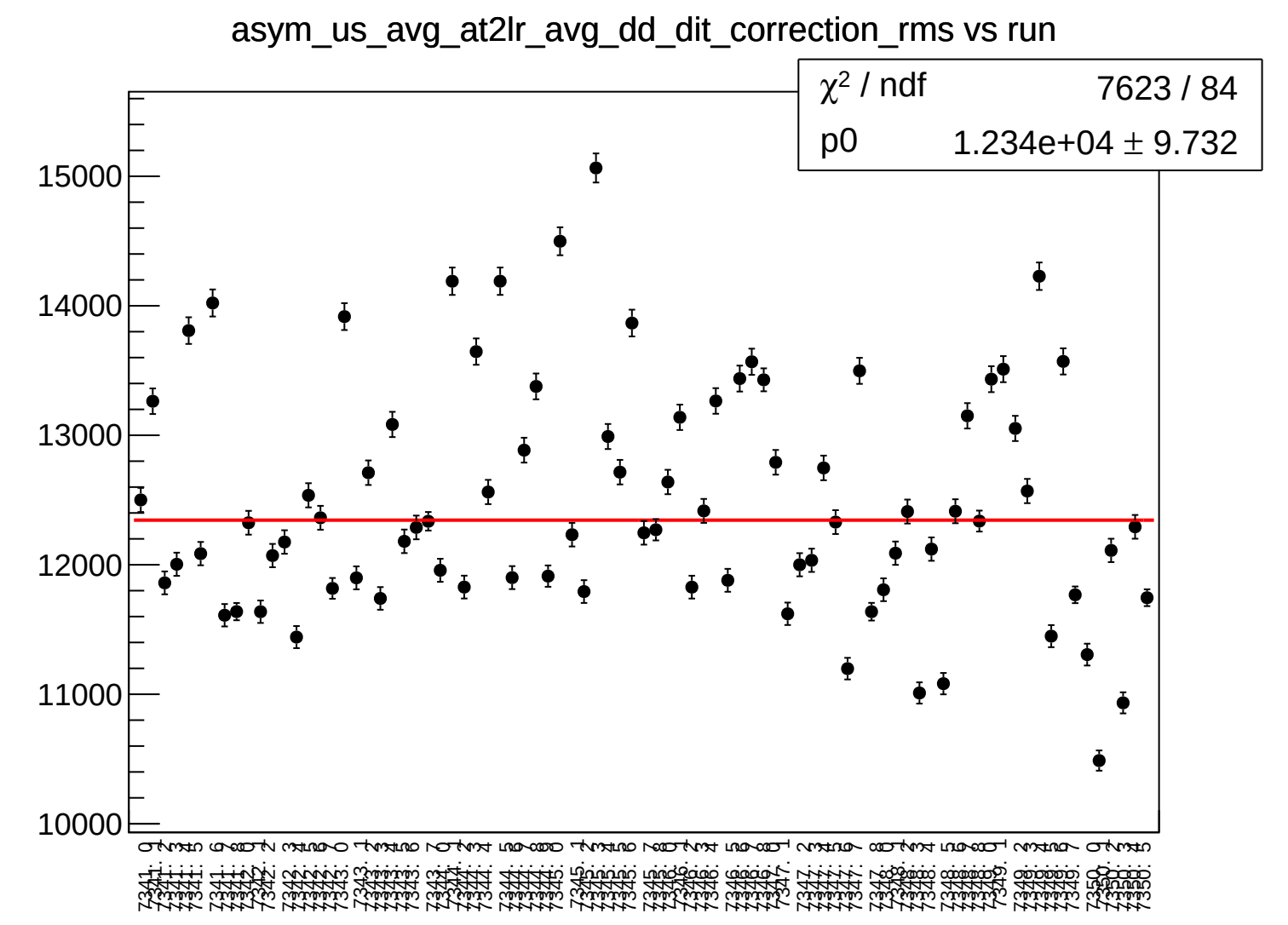

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 73.07 / 84
p0 −2545 ± 2121
pull
Entries 85
Mean 37.52
Std Dev 64.72

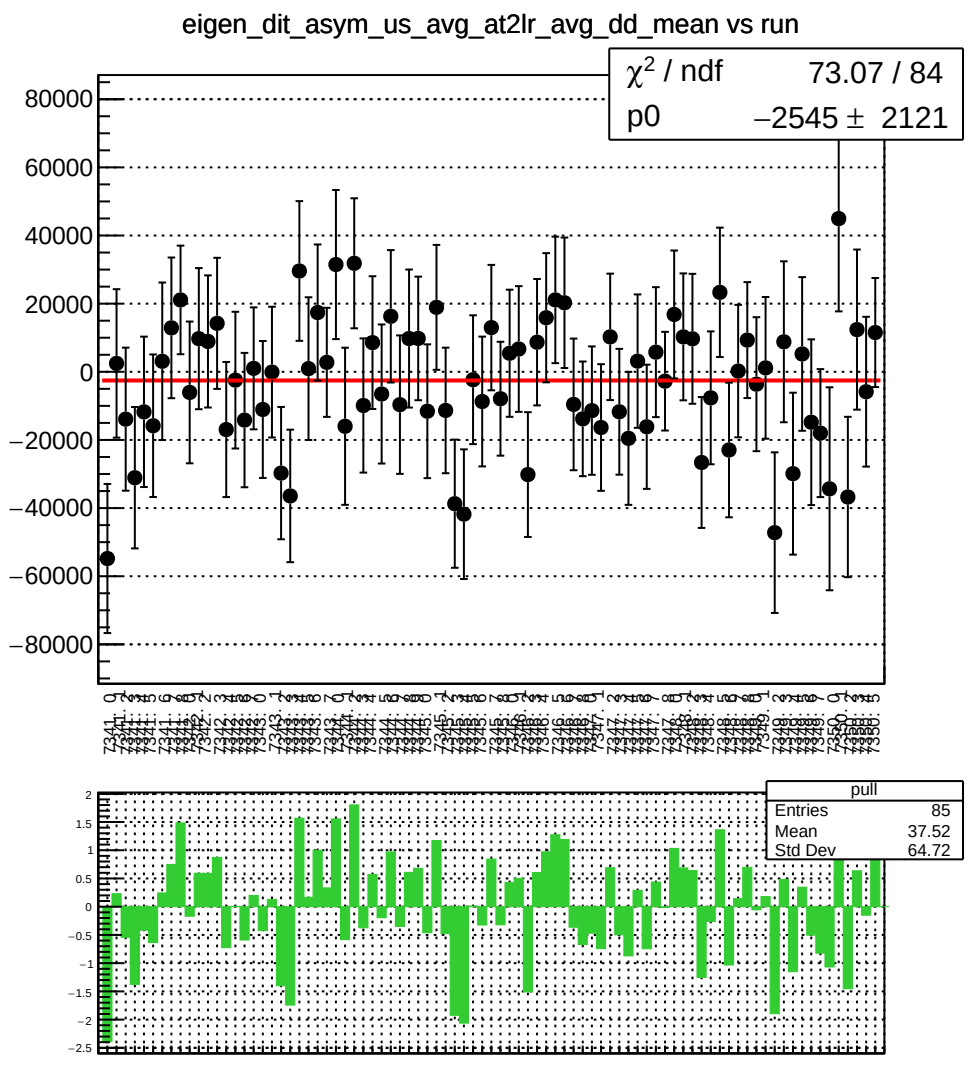

pull1D
Entries 85
Mean −0.01675
Std Dev 0.927

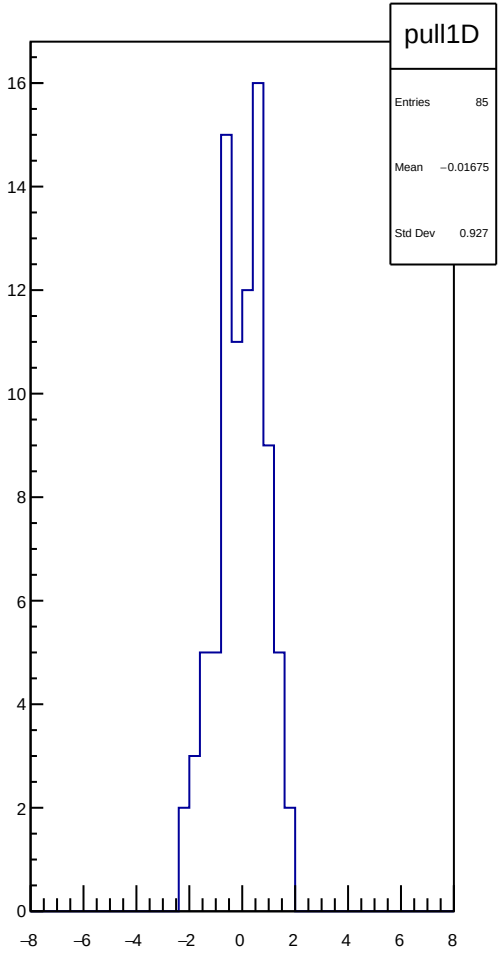

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.248e+04 / 84
p0 1899 ± 1.5
2800
2600
2400
2200
2000
1800

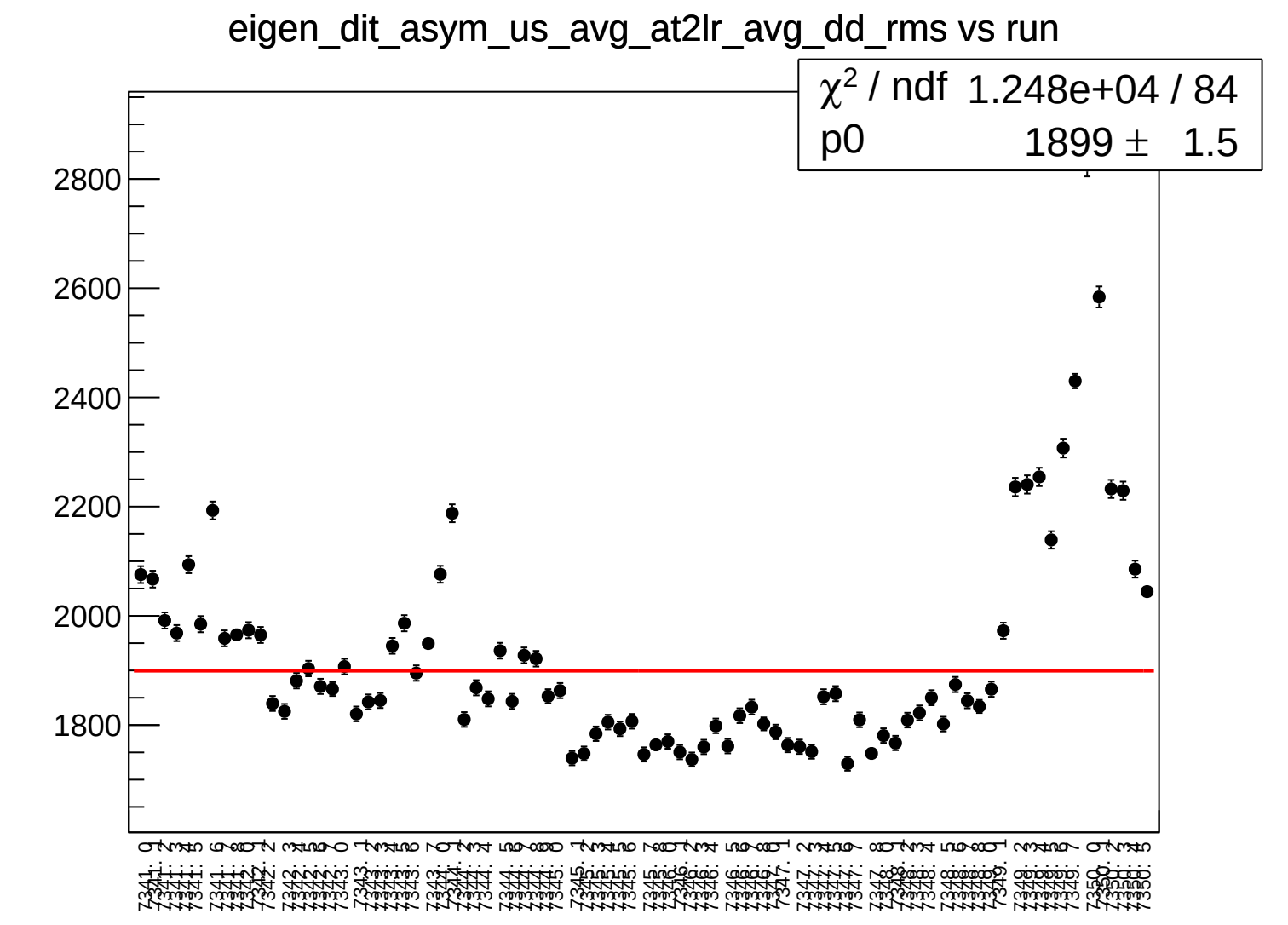

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 73.04 / 84
p0 6507 ± 1.376e+04
pull
Entries 85
Mean −114.9
Std Dev 0

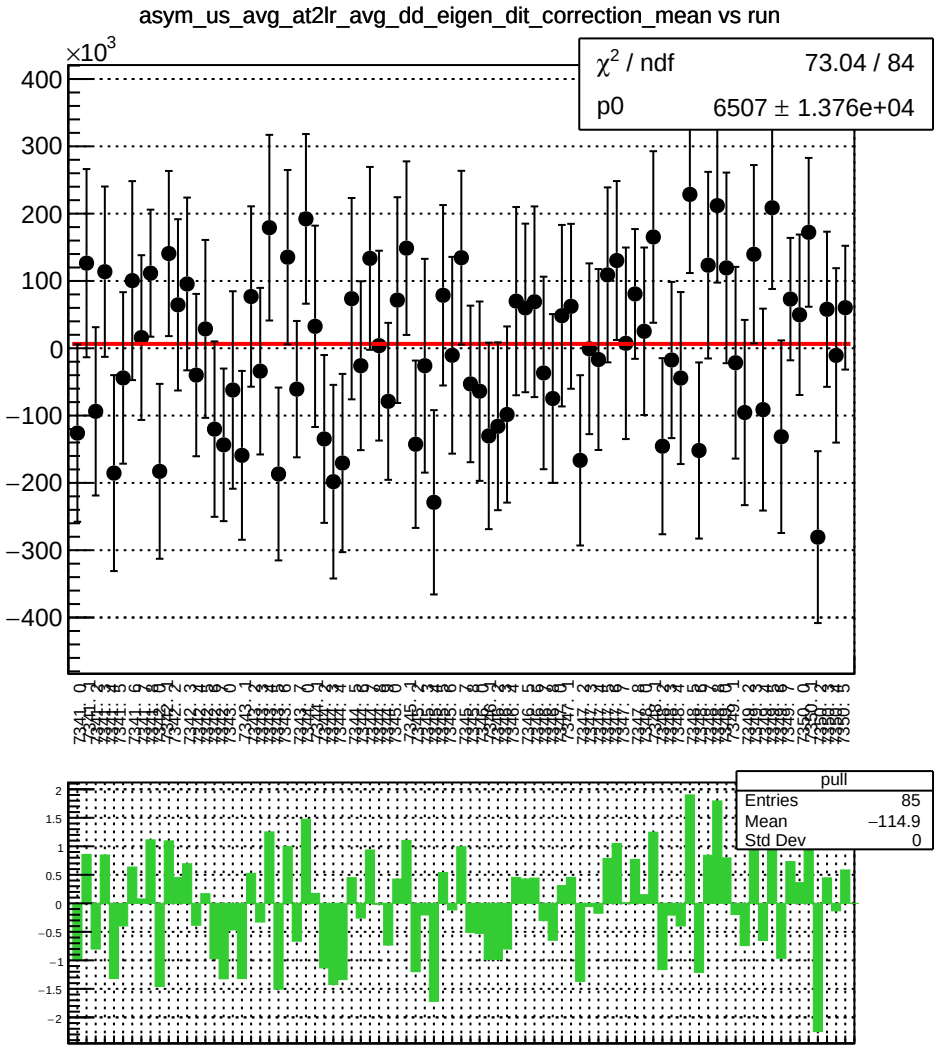

pull1D
Entries 85
Mean −0.02116
Std Dev 0.9268

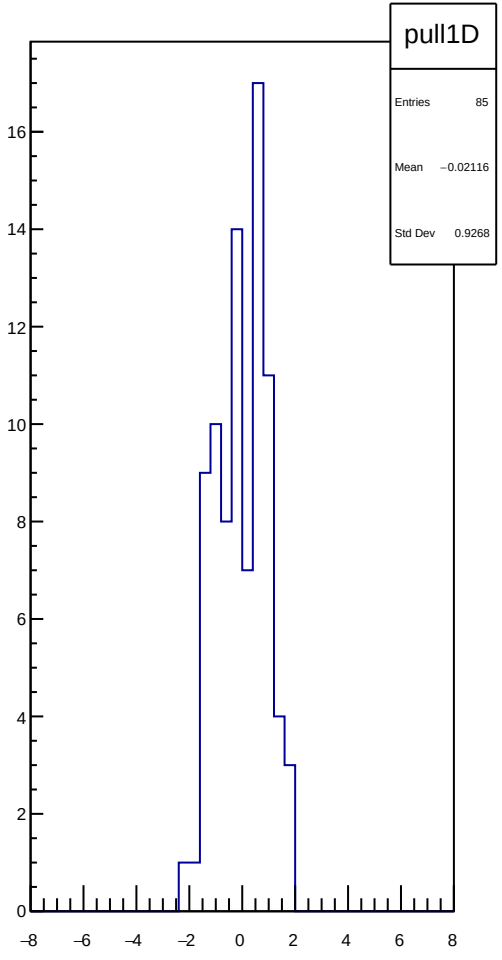

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 7623 / 84
p0 1.234e+04 ± 9.732
15000
14000
13000
12000
11000
10000

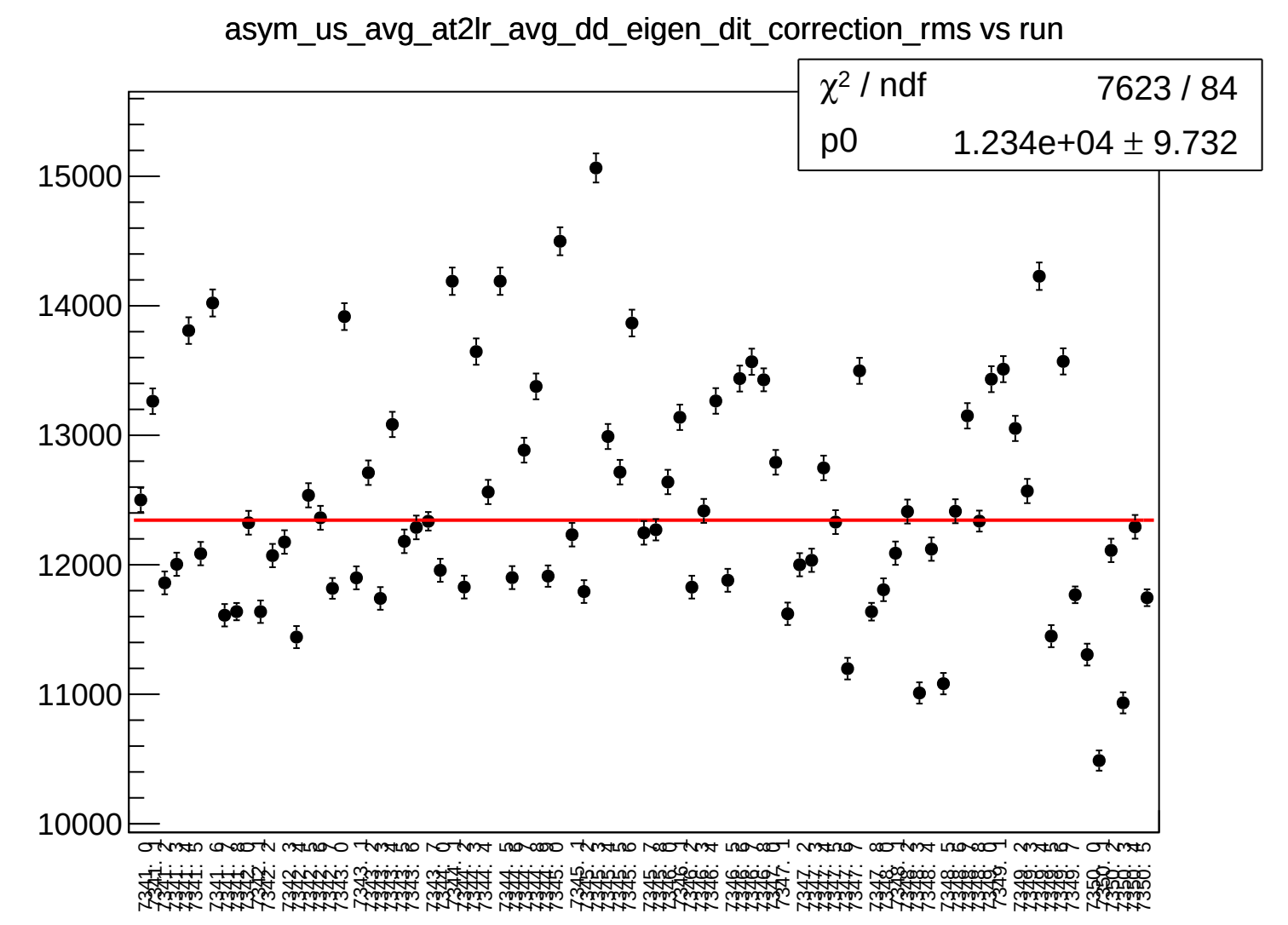

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 73.07 / 84
p0 −2545 ± 2121
pull
Entries 85
Mean 37.52
Std Dev 64.72

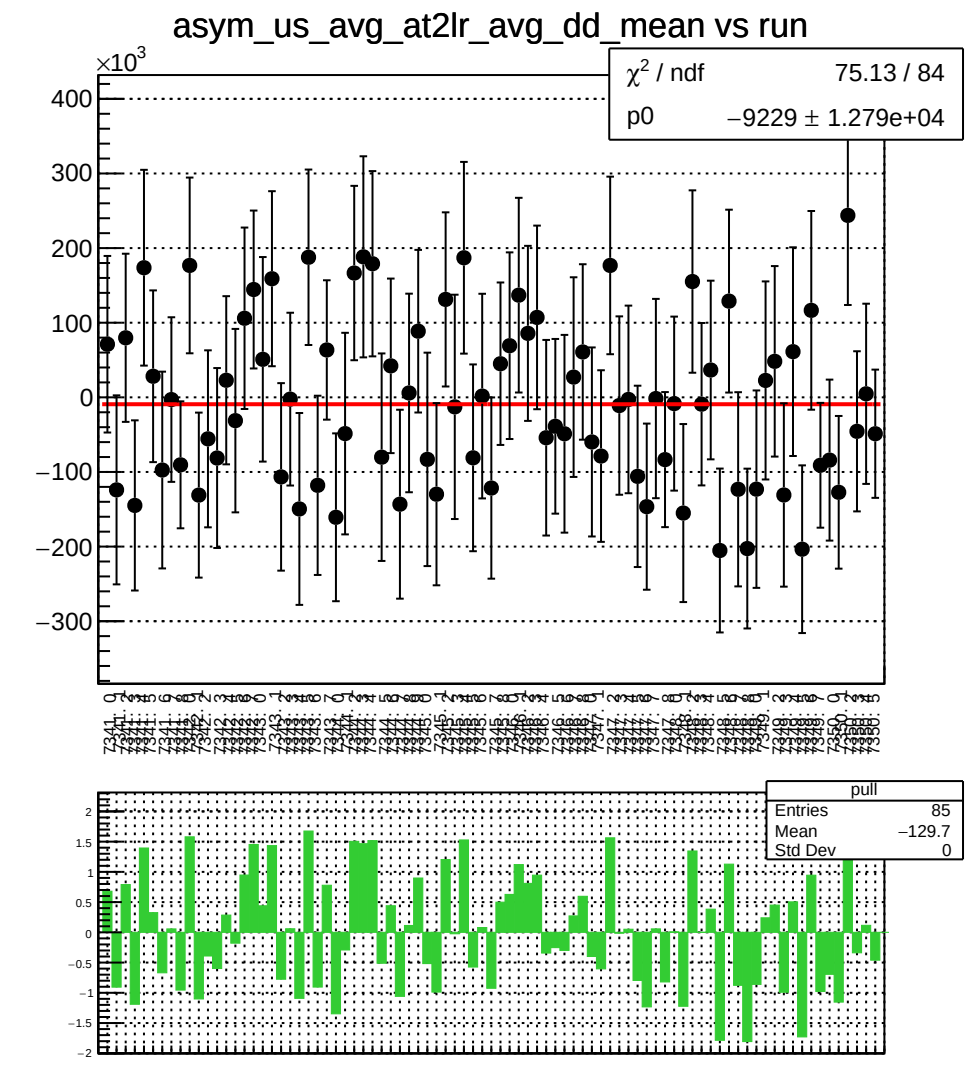

pull1D
Entries 85
Mean −0.01675
Std Dev 0.927

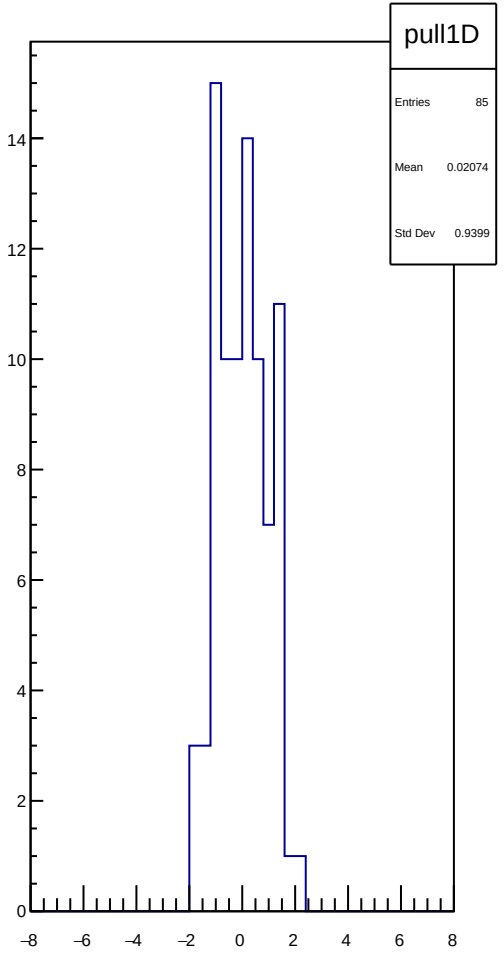

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.248e+04 / 84
p0 1899 ± 1.5
2800
2600
2400
2200
2000
1800

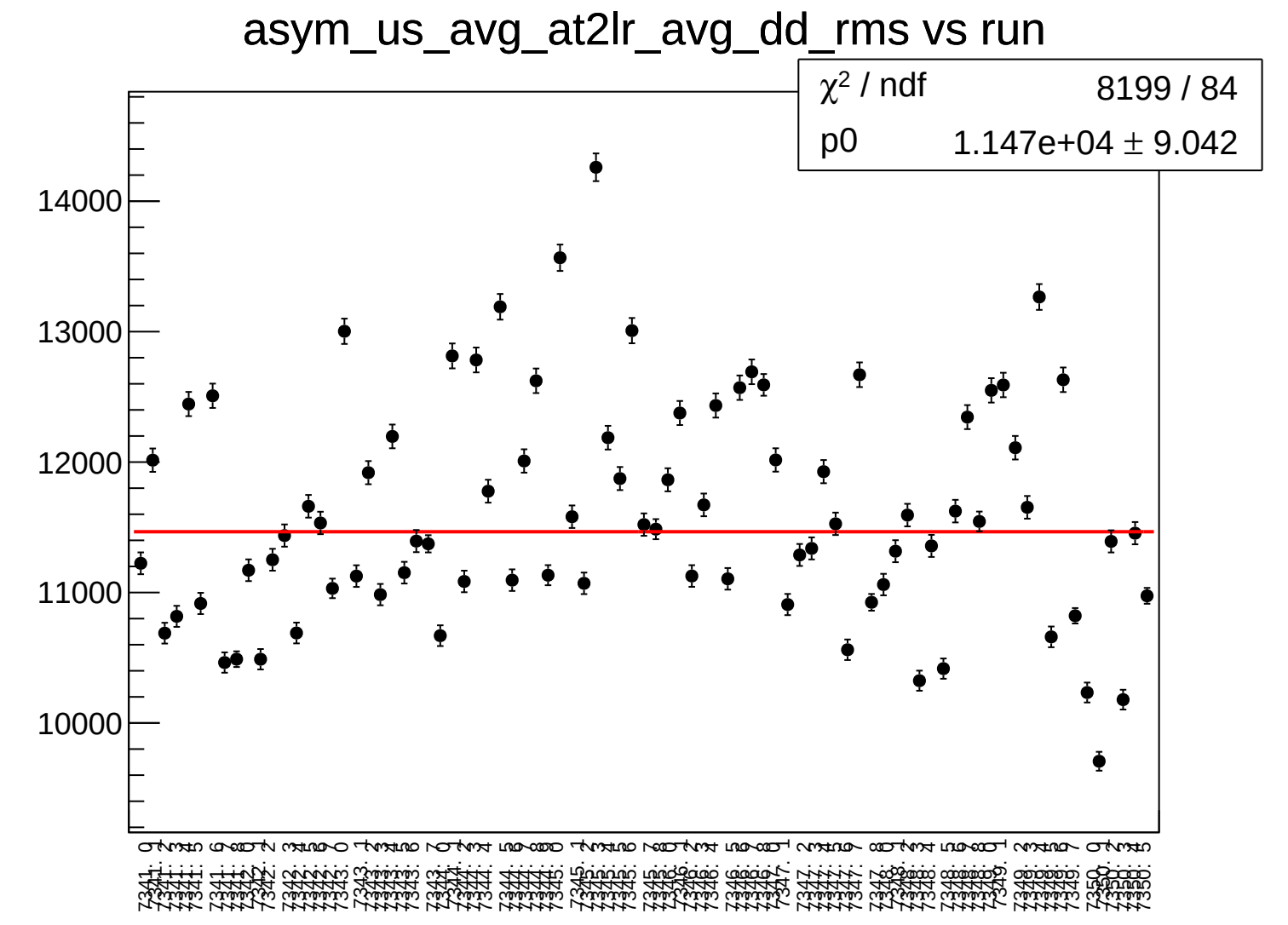

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.04 / 84
p0 6507 ± 1.376e+04
pull
Entries 85
Mean −114.9
Std Dev 0

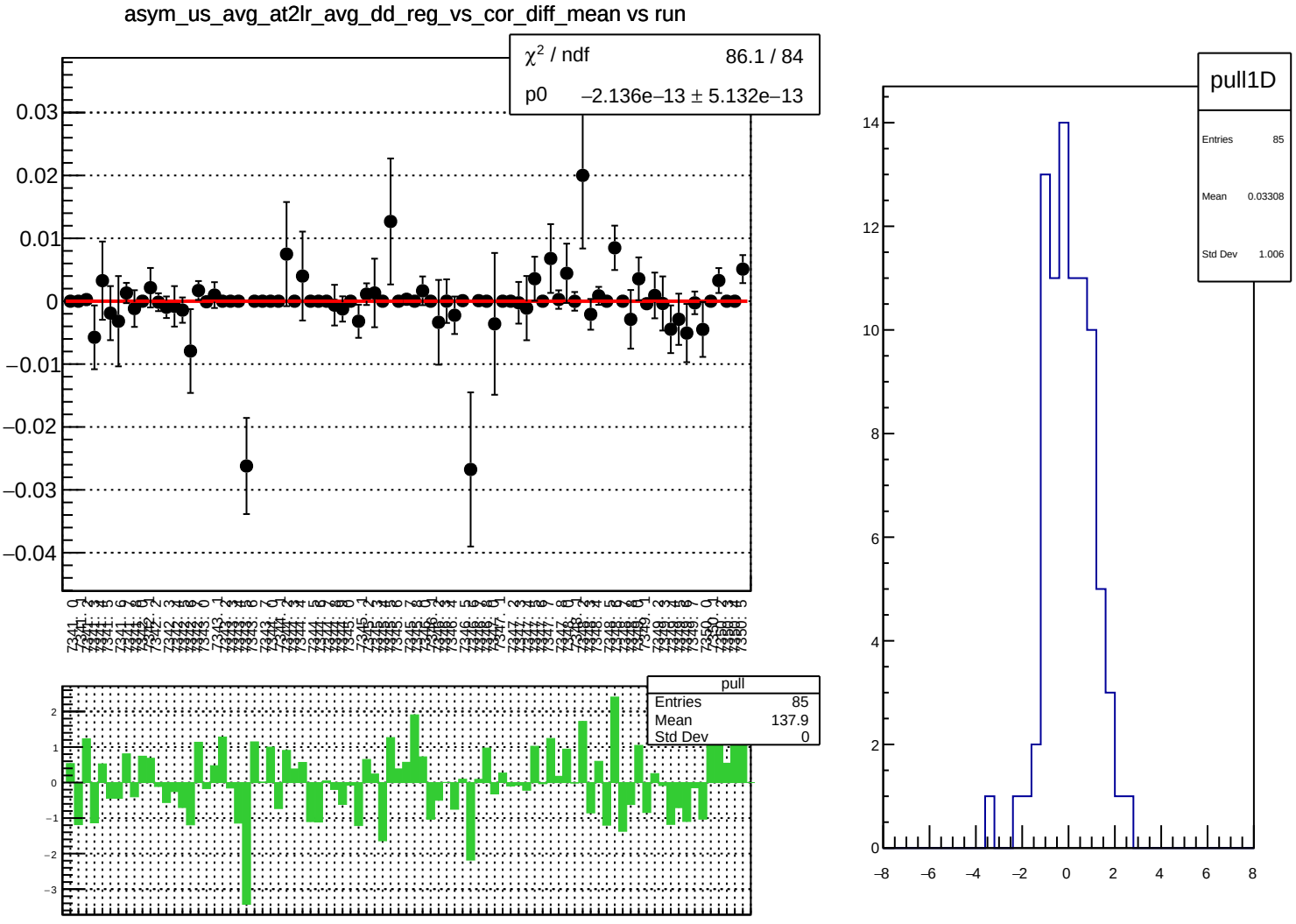

pull1D
Entries 85
Mean −0.02116
Std Dev 0.9268

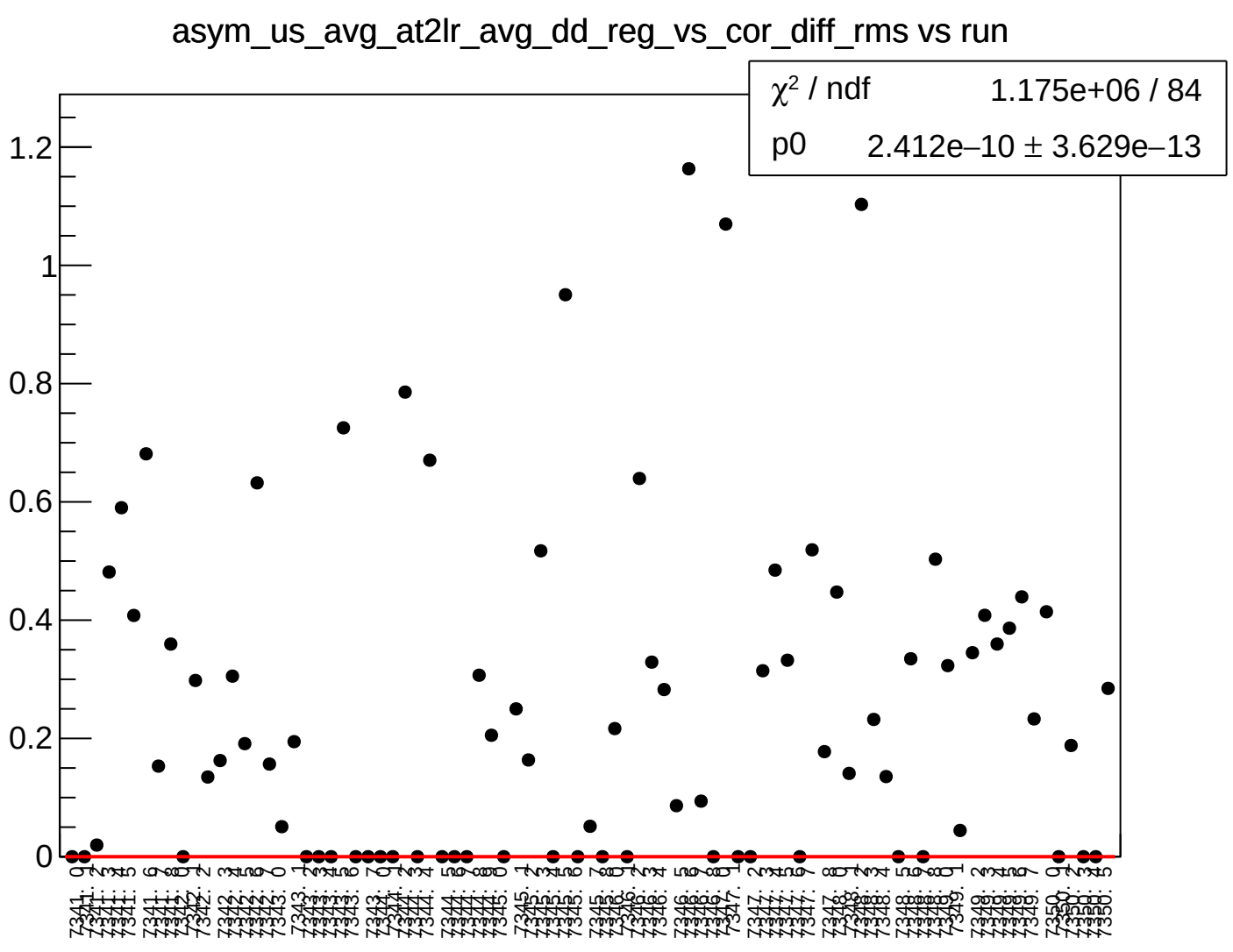

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7623 / 84
p0 1.234e+04 ± 9.732
15000
14000
13000
12000
11000
10000

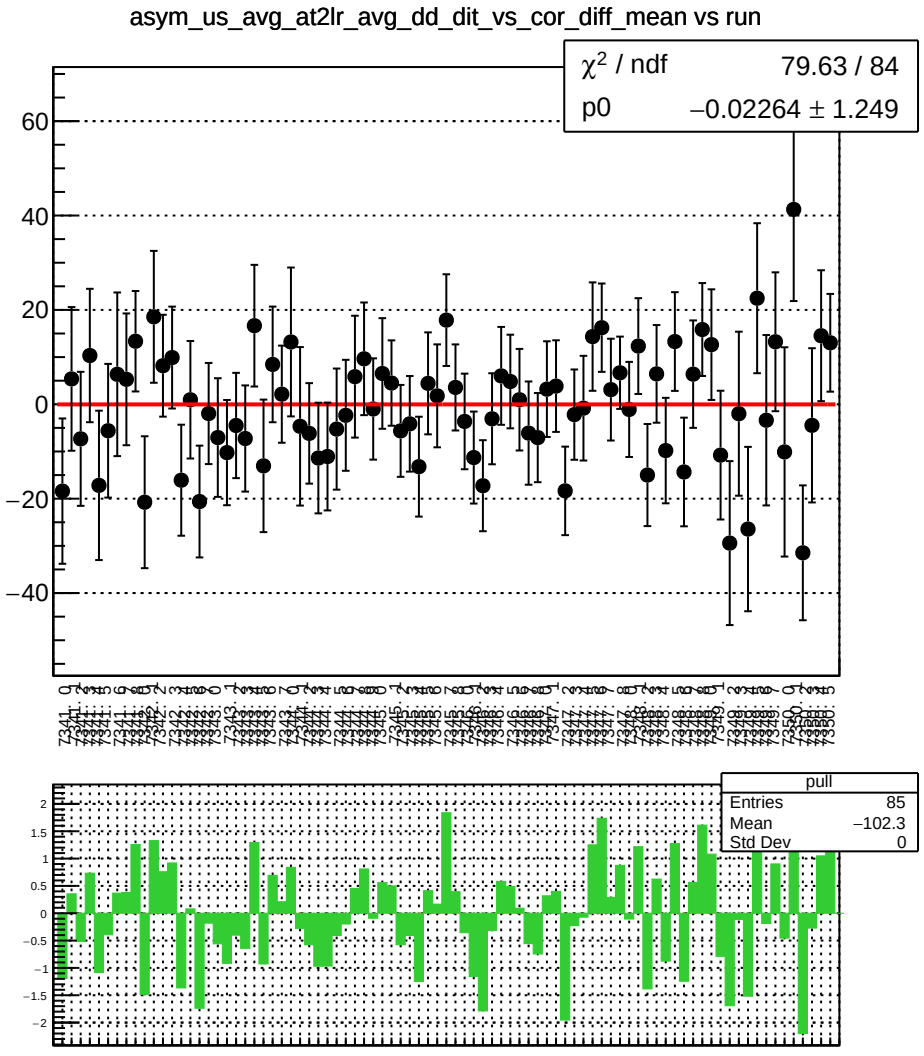

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 75.13 / 84
p0 −9229 ± 1.279e+04
pull
Entries 85
Mean −129.7
Std Dev 0

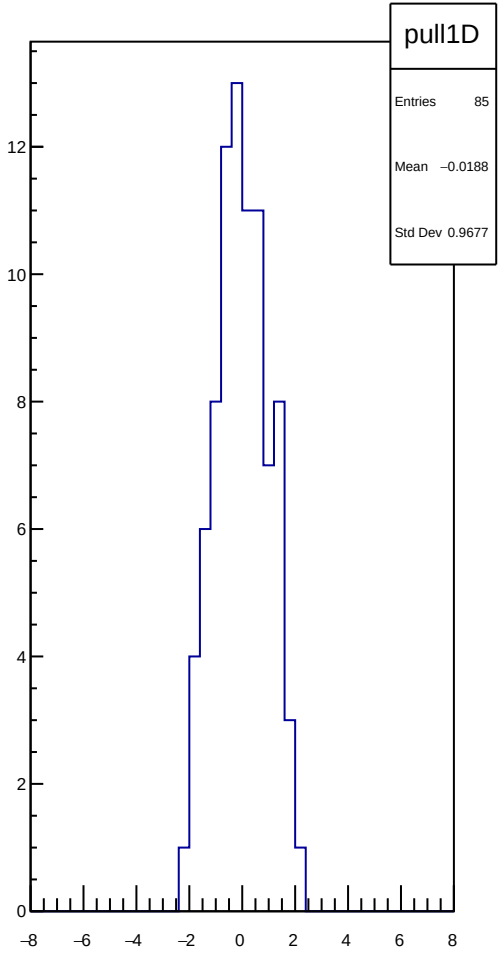

pull1D
Entries 85
Mean 0.02074
Std Dev 0.9399

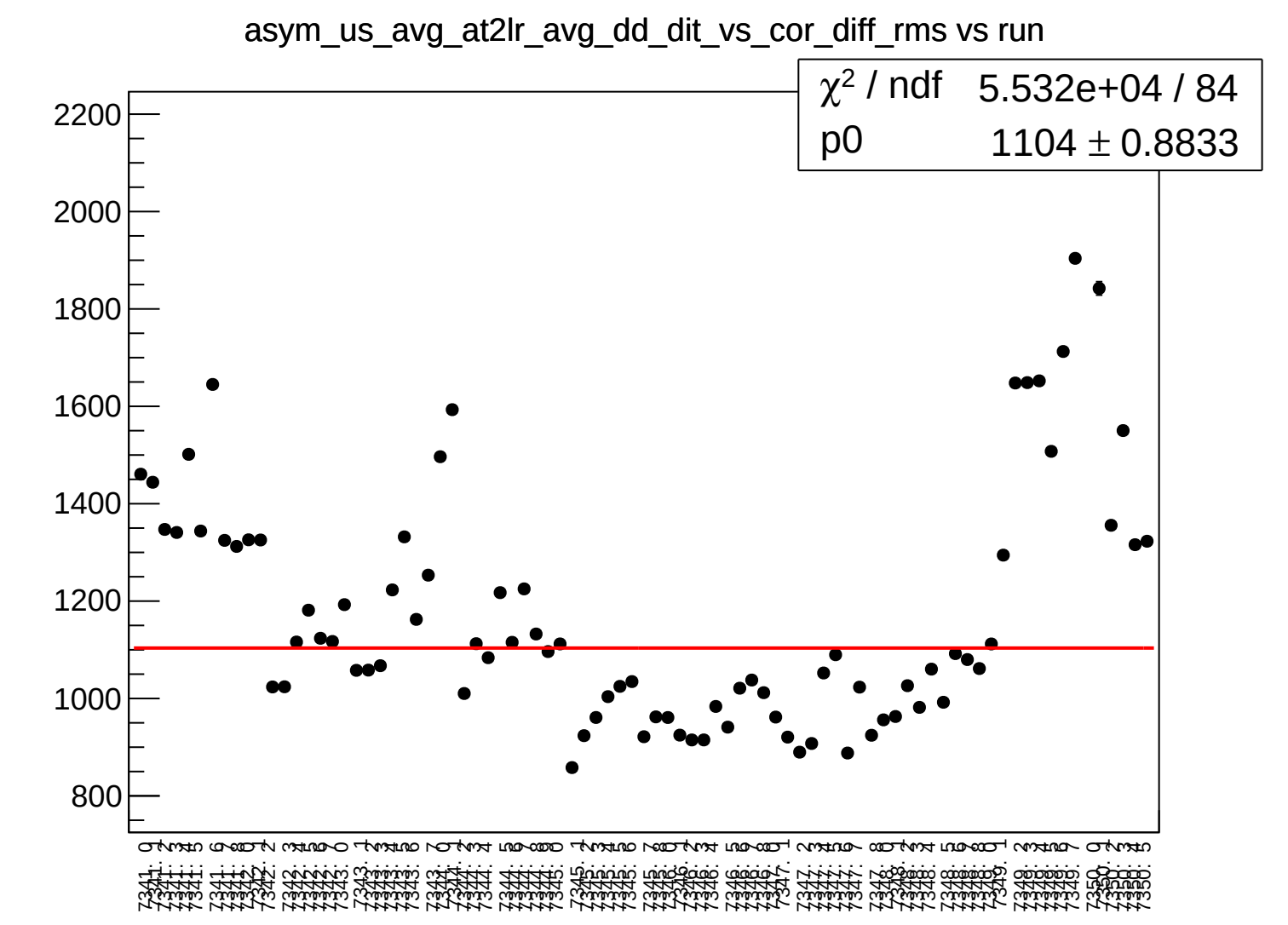

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 8199 / 84
p0 1.147e+04 ± 9.042
14000
13000
12000
11000
10000

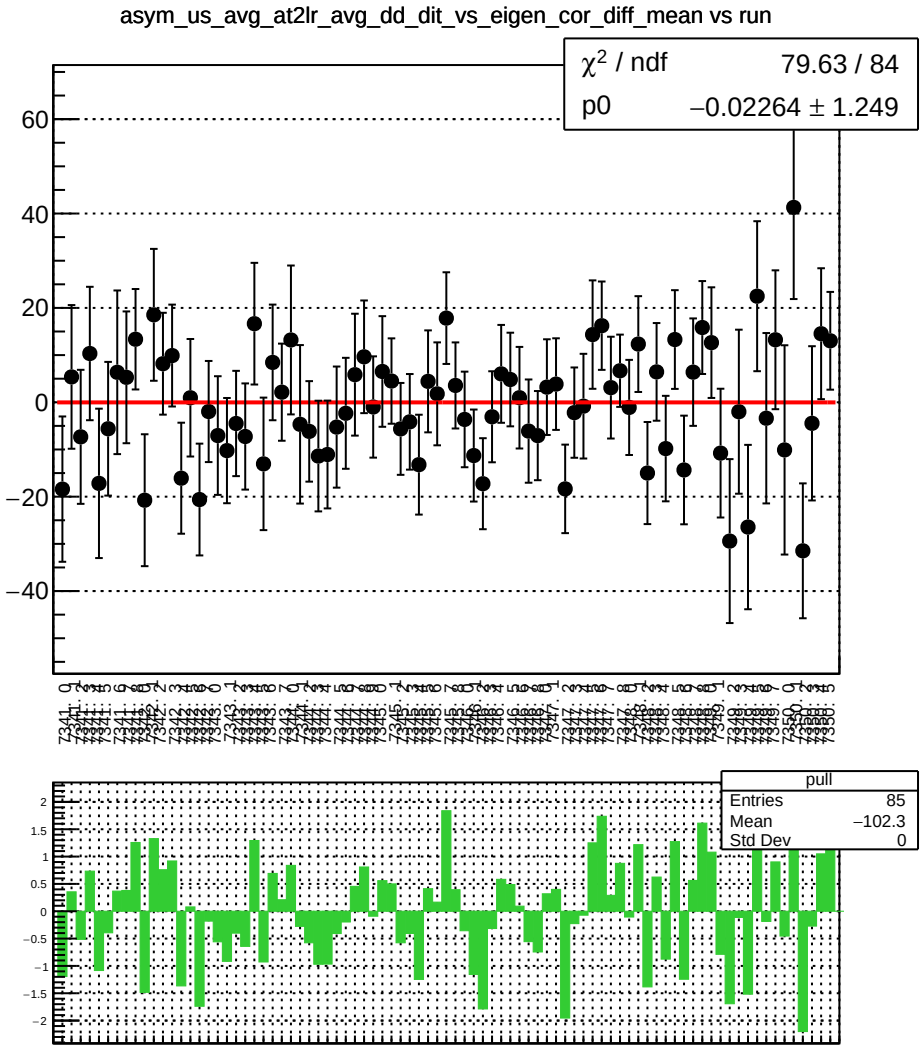

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.1 / 84
p0 −2.136e−13 ± 5.132e−13
pull
Entries 85
Mean 137.9
Std Dev 0
pull1D
Entries 85
Mean 0.03308
Std Dev 1.006

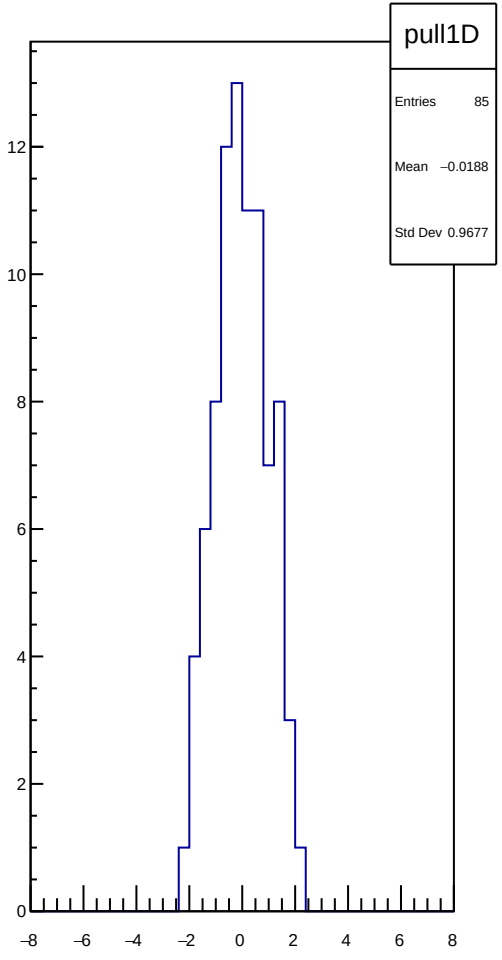

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.175e+06 / 84
p0 2.412e−10 ± 3.629e−13
1.2
1
0.8
0.6
0.4
0.2
0

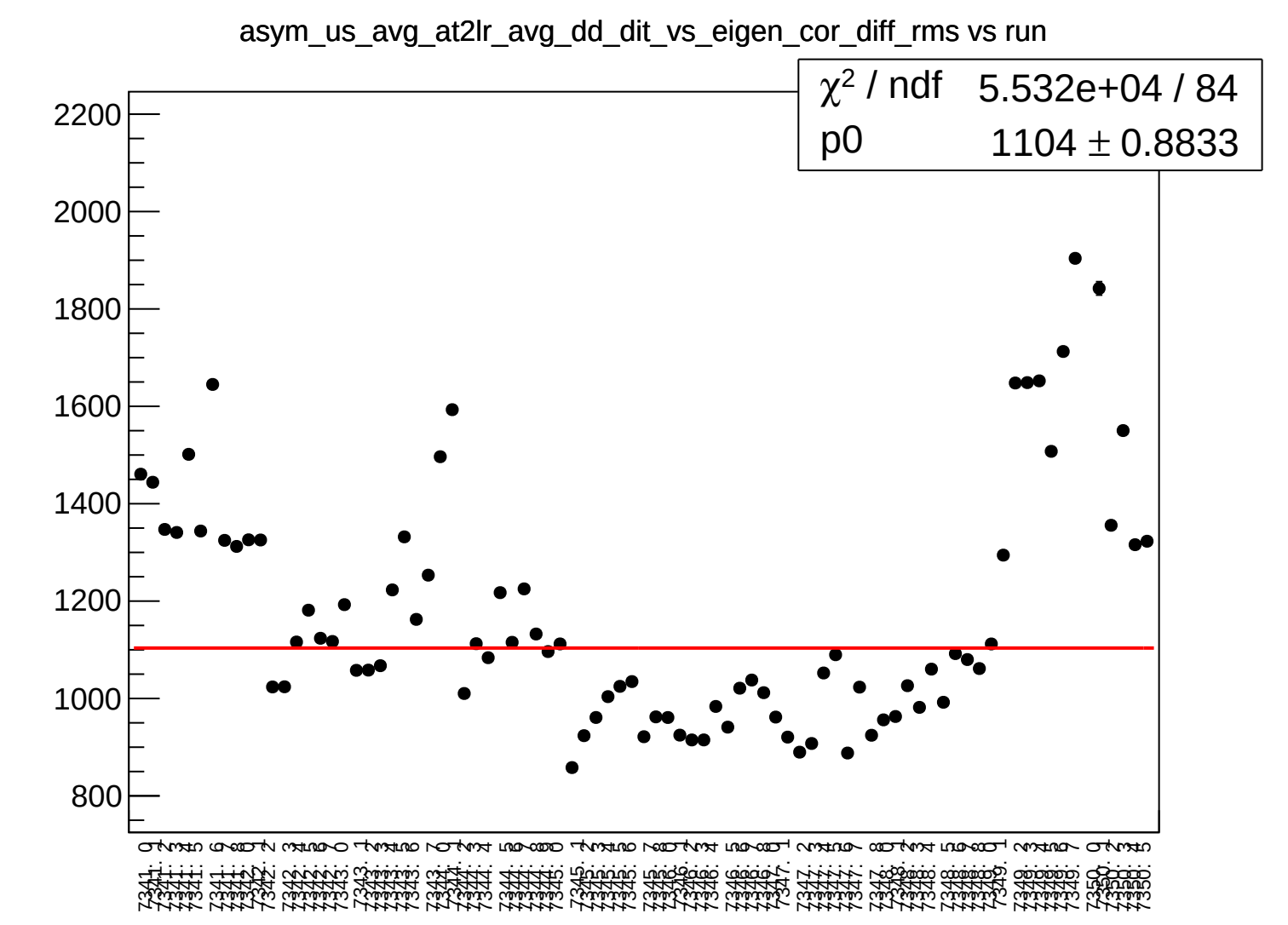

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.63 / 84
p0 −0.02264 ± 1.249
pull
Entries 85
Mean −102.3
Std Dev 0

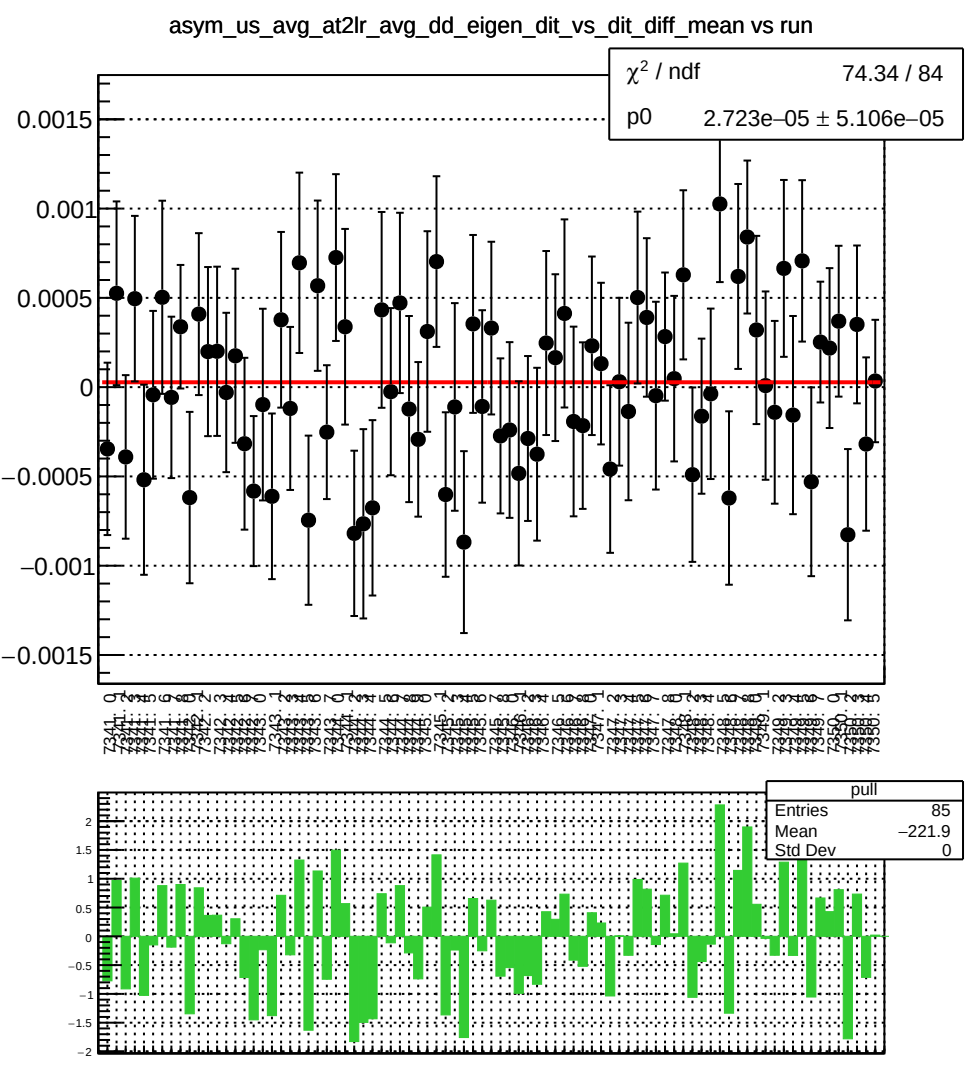

pull1D
Entries 85
Mean −0.0188
Std Dev 0.9677

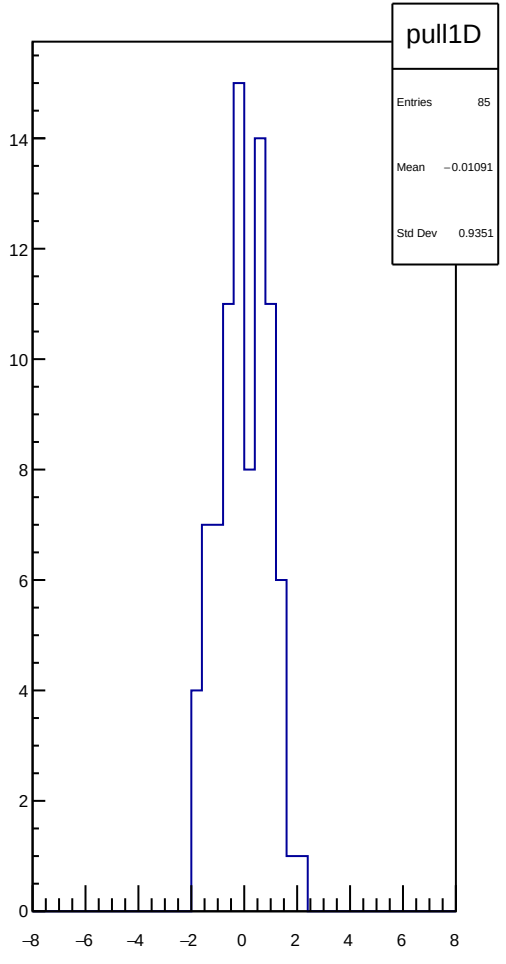

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.532e+04 / 84
p0 1104 ± 0.8833
2200
2000
1800
1600
1400
1200
1000
800

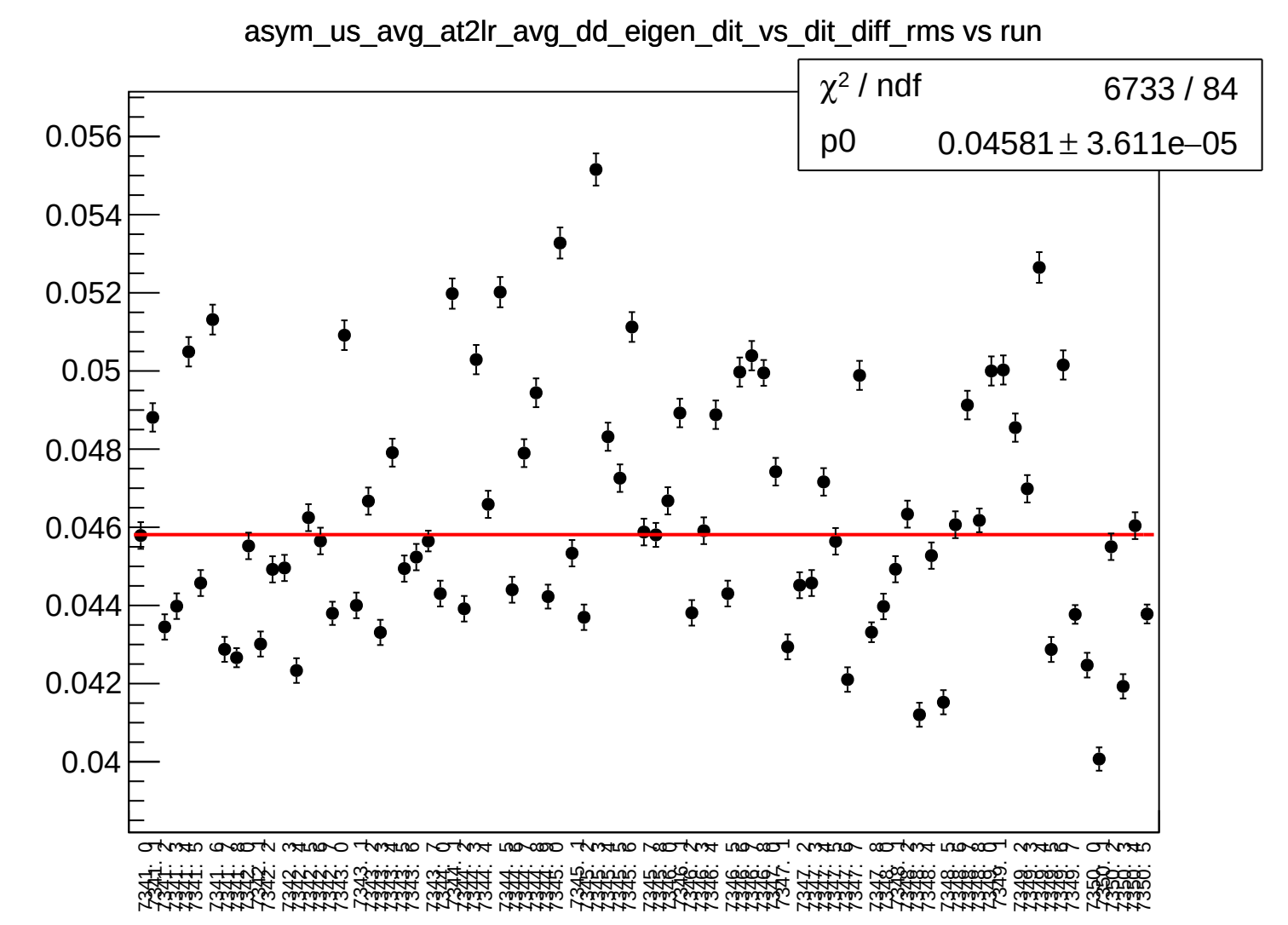

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.63 / 84
p0 −0.02264 ± 1.249
pull
Entries 85
Mean −102.3
Std Dev 0

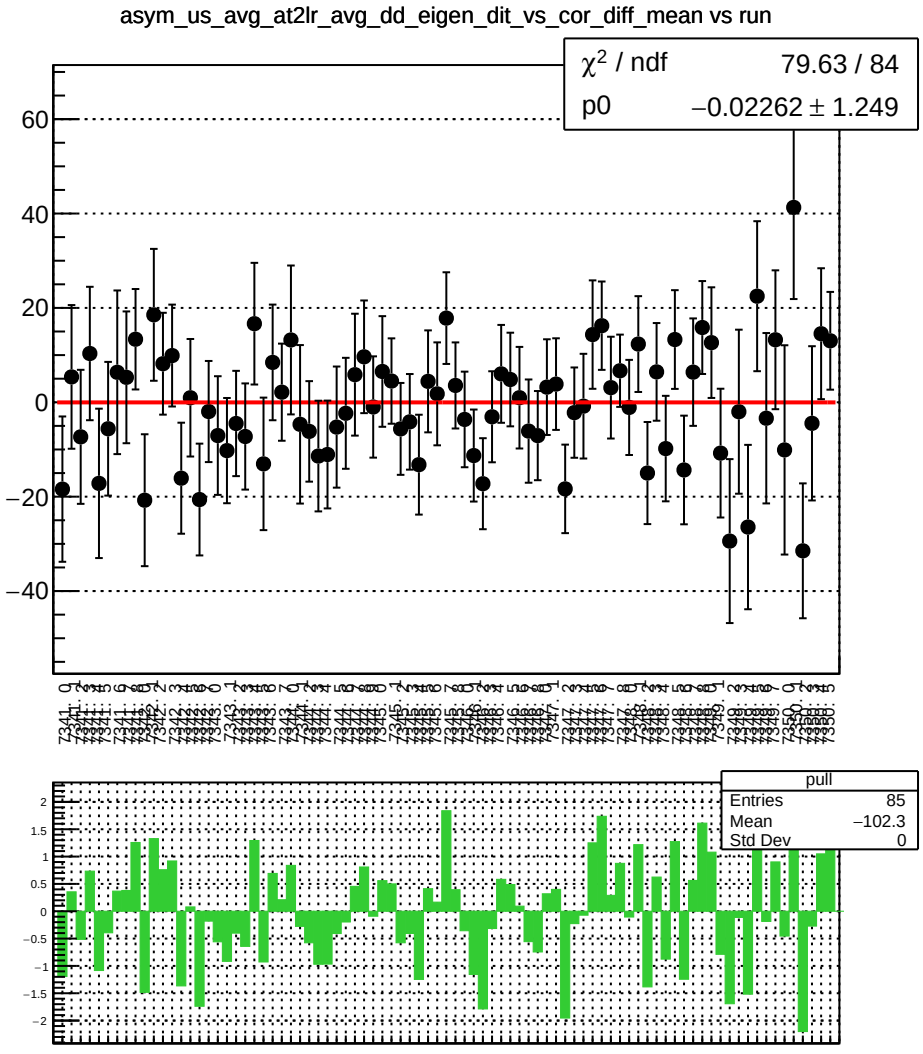

pull1D
Entries 85
Mean −0.0188
Std Dev 0.9677

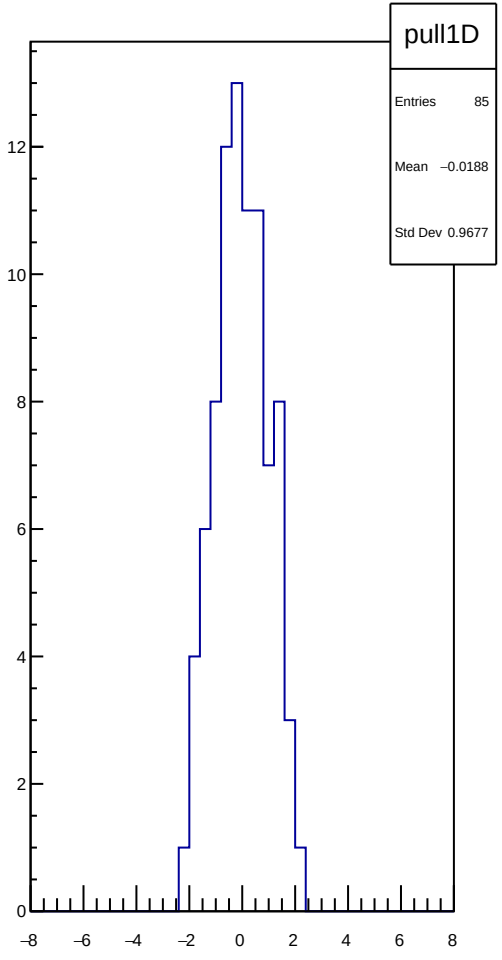

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.532e+04 / 84
p0 1104 ± 0.8833
2200
2000
1800
1600
1400
1200
1000
800

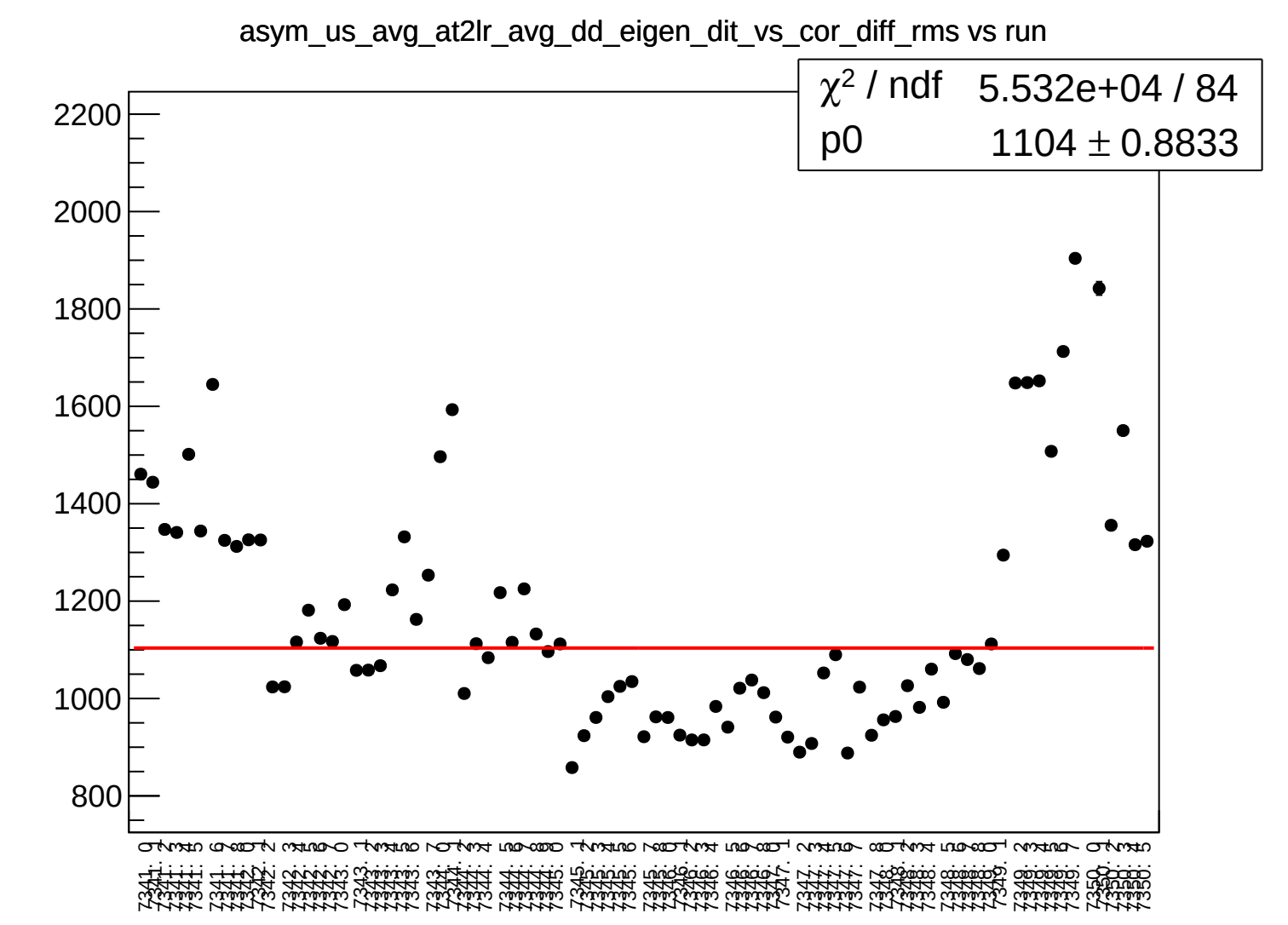

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.34 / 84
p0 2.723e−05 ± 5.106e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean −221.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

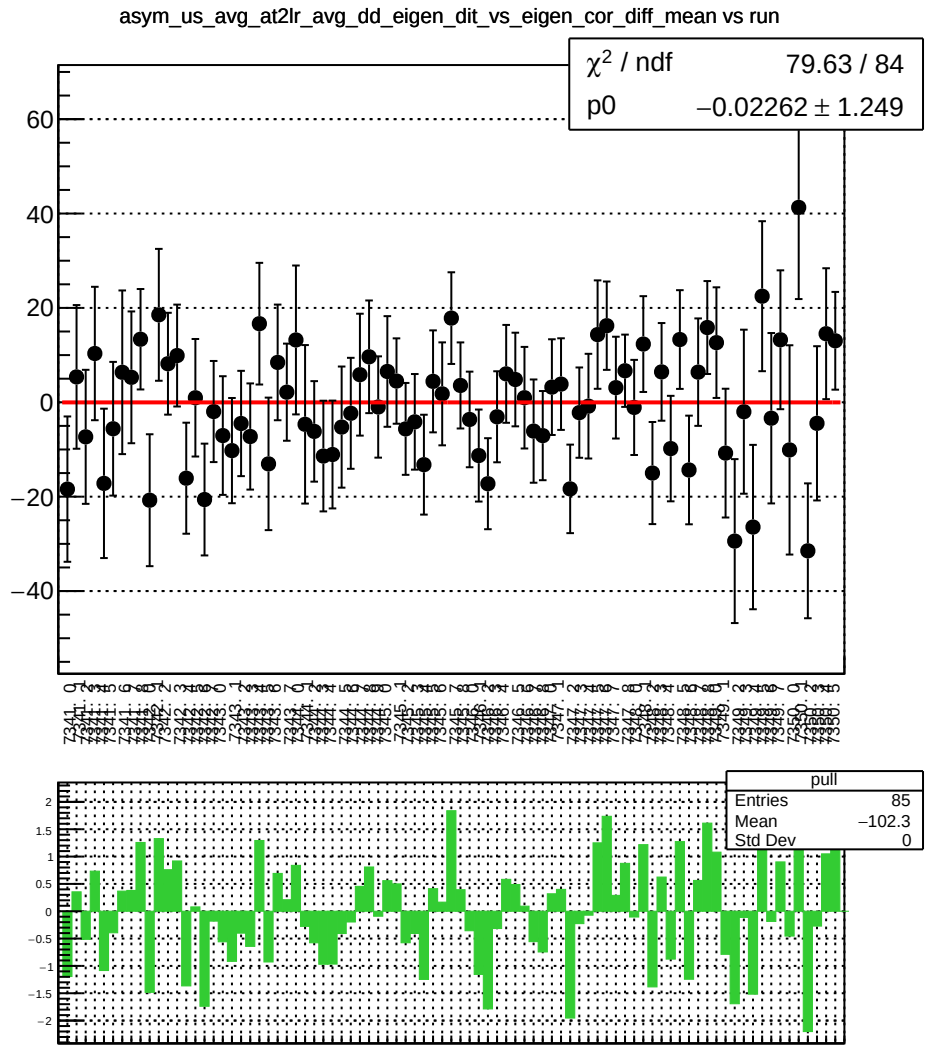

pull1D
Entries 85
Mean −0.01091
Std Dev 0.9351
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

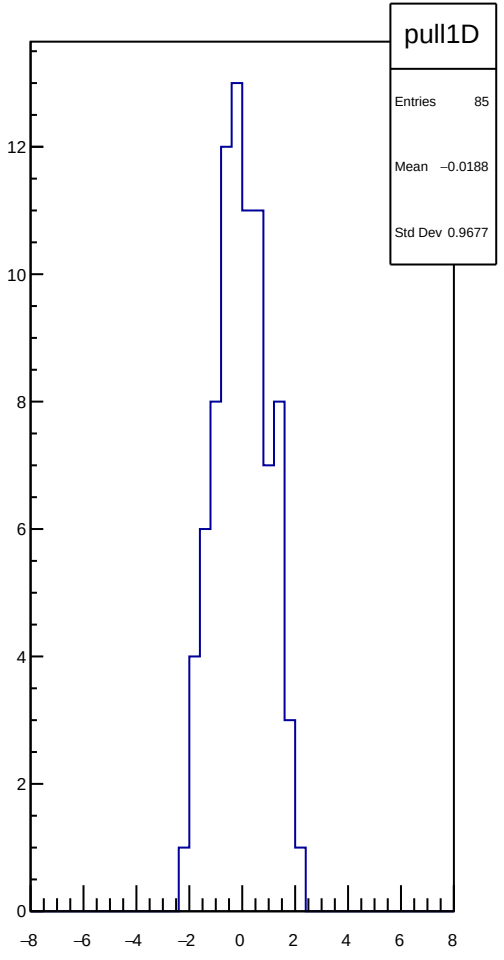

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6733 / 84
p0 0.04581 ± 3.611e–05
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04

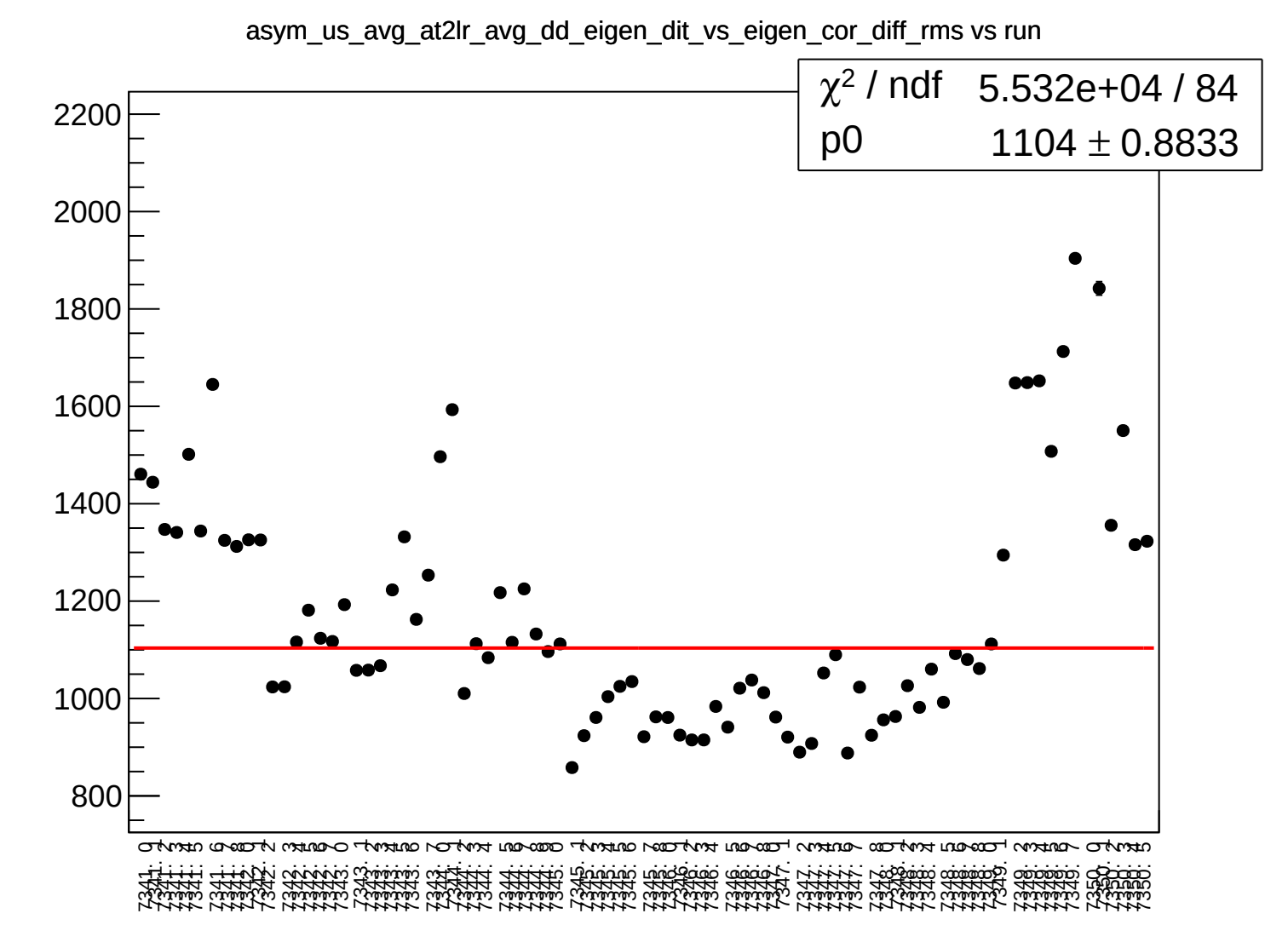

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.63 / 84
p0 −0.02262 ± 1.249
pull
Entries 85
Mean −102.3
Std Dev 0

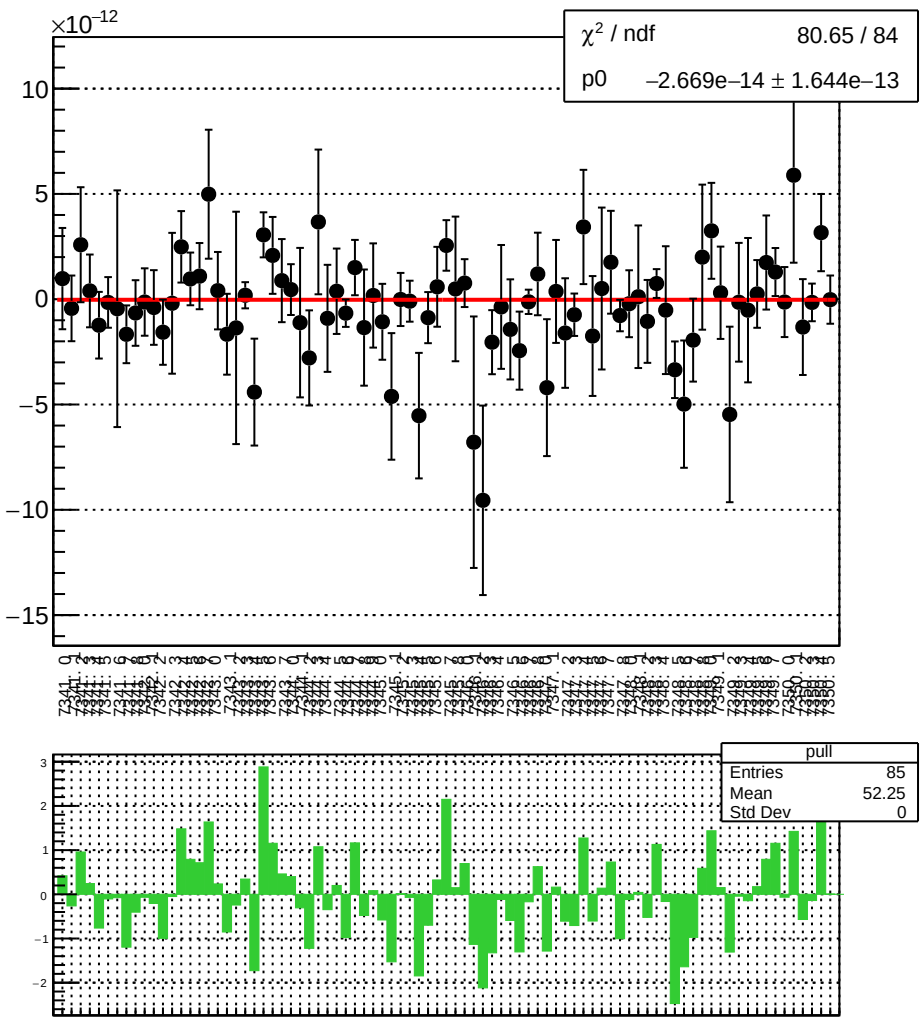

pull1D
Entries 85
Mean −0.0188
Std Dev 0.9677

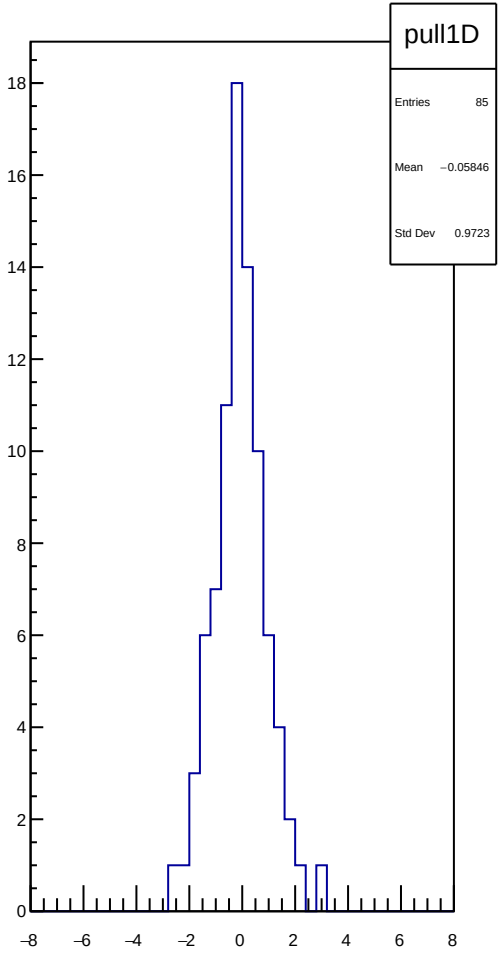

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.532e+04 / 84
p0 1104 ± 0.8833
2200
2000
1800
1600
1400
1200
1000
800

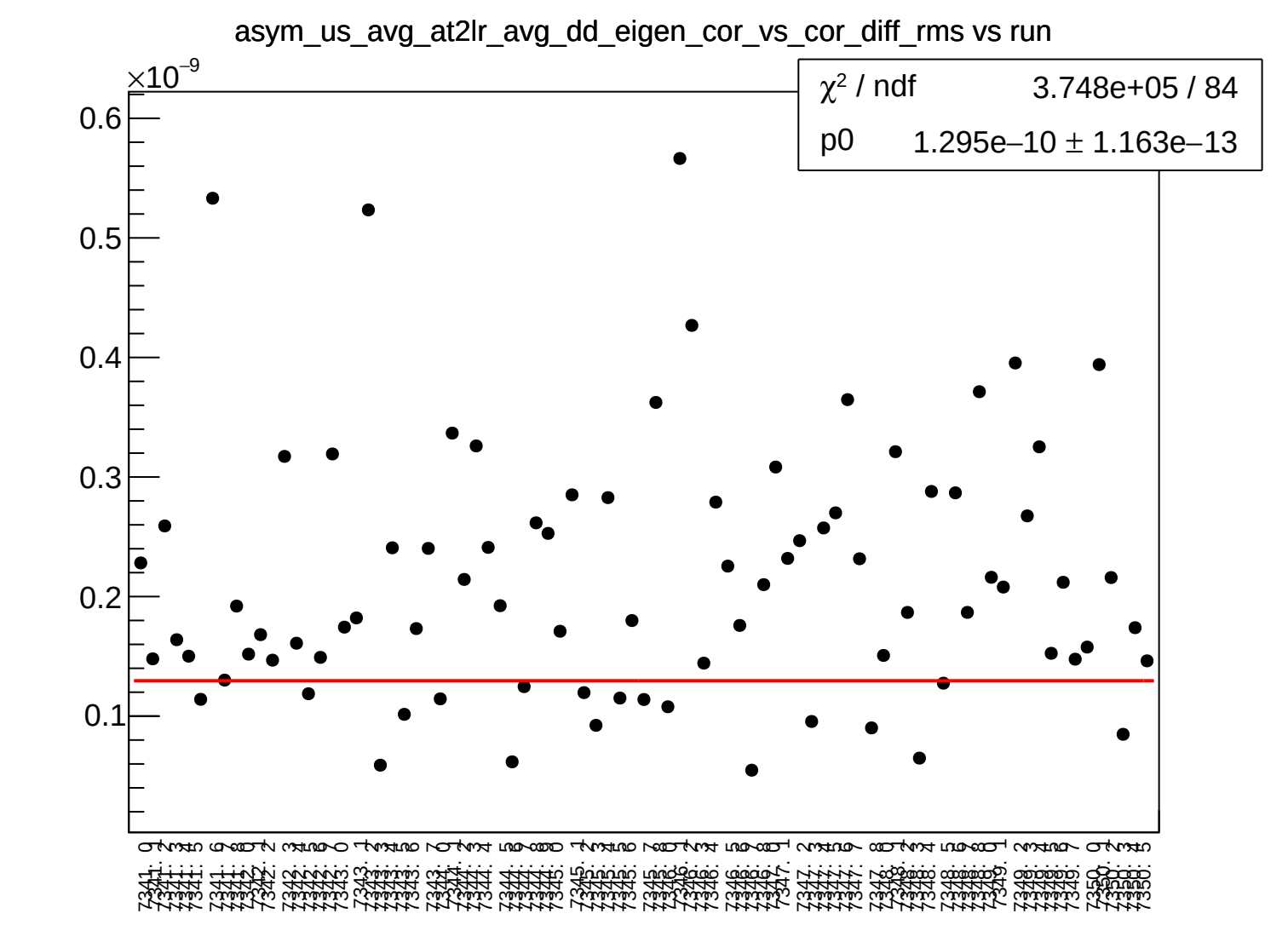

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.63 / 84
p0 −0.02262 ± 1.249
pull
Entries 85
Mean −102.3
Std Dev 0

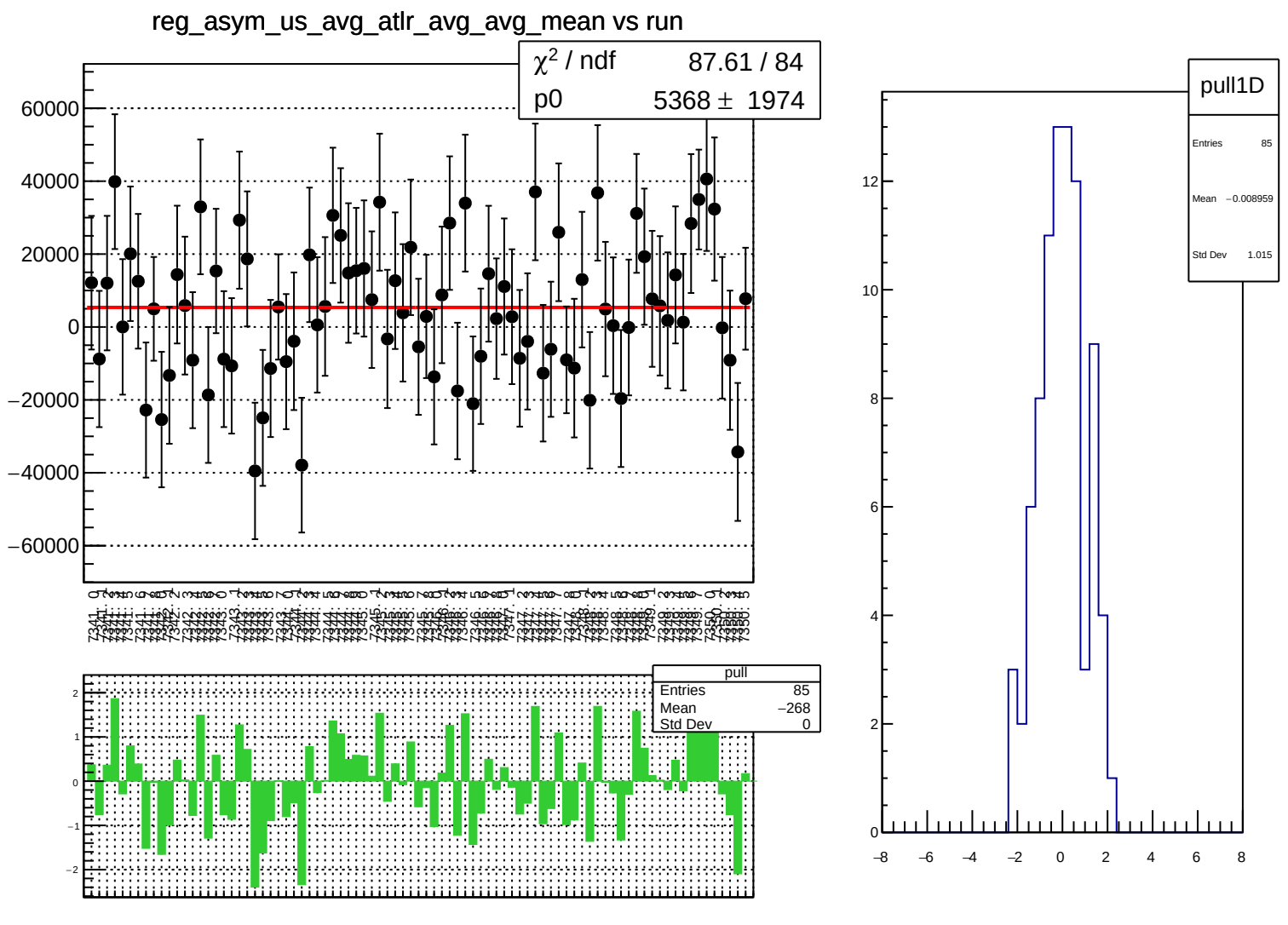

pull1D
Entries 85
Mean −0.0188
Std Dev 0.9677

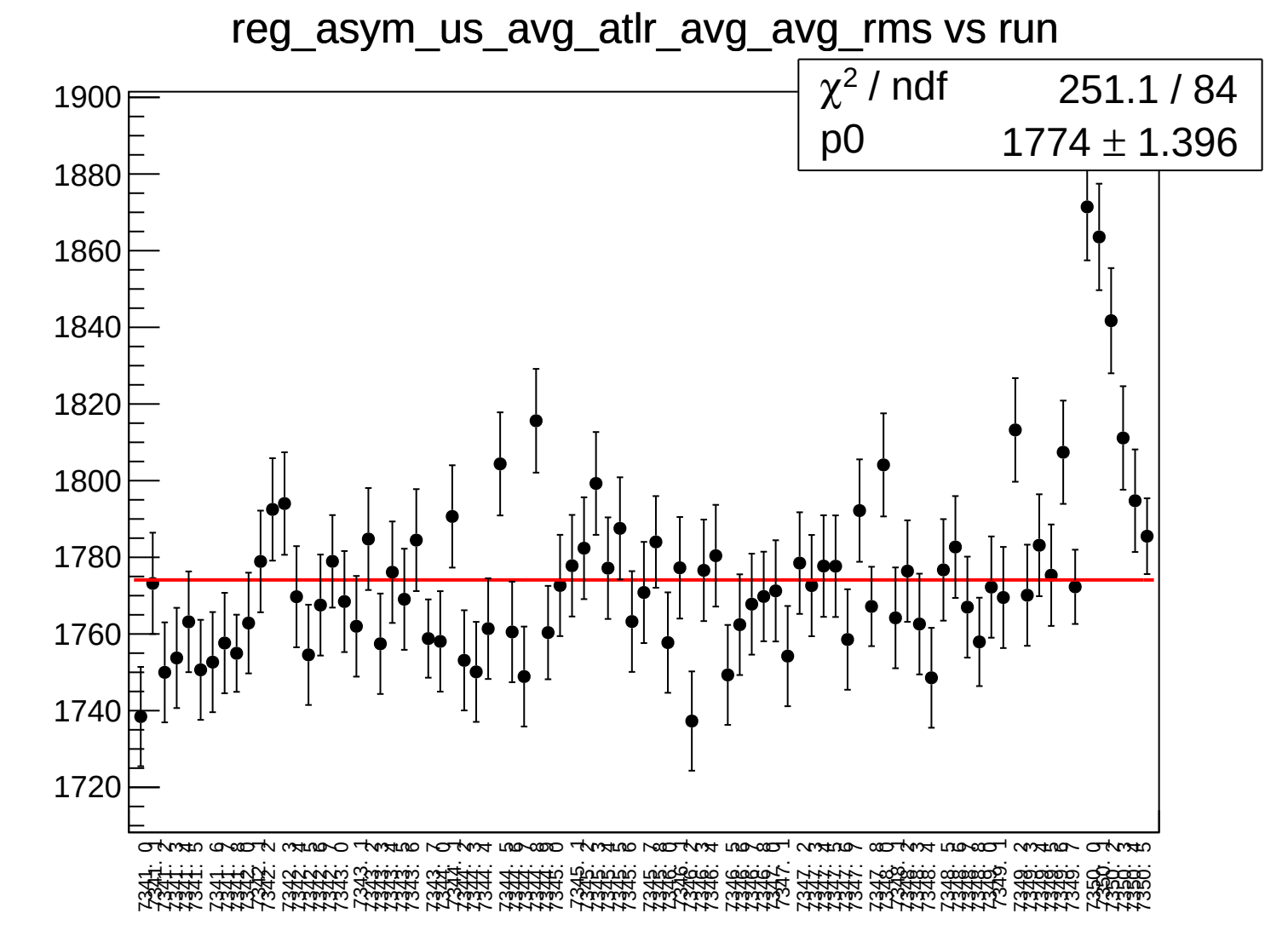

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.532e+04 / 84
p0 1104 ± 0.8833
2200
2000
1800
1600
1400
1200
1000
800

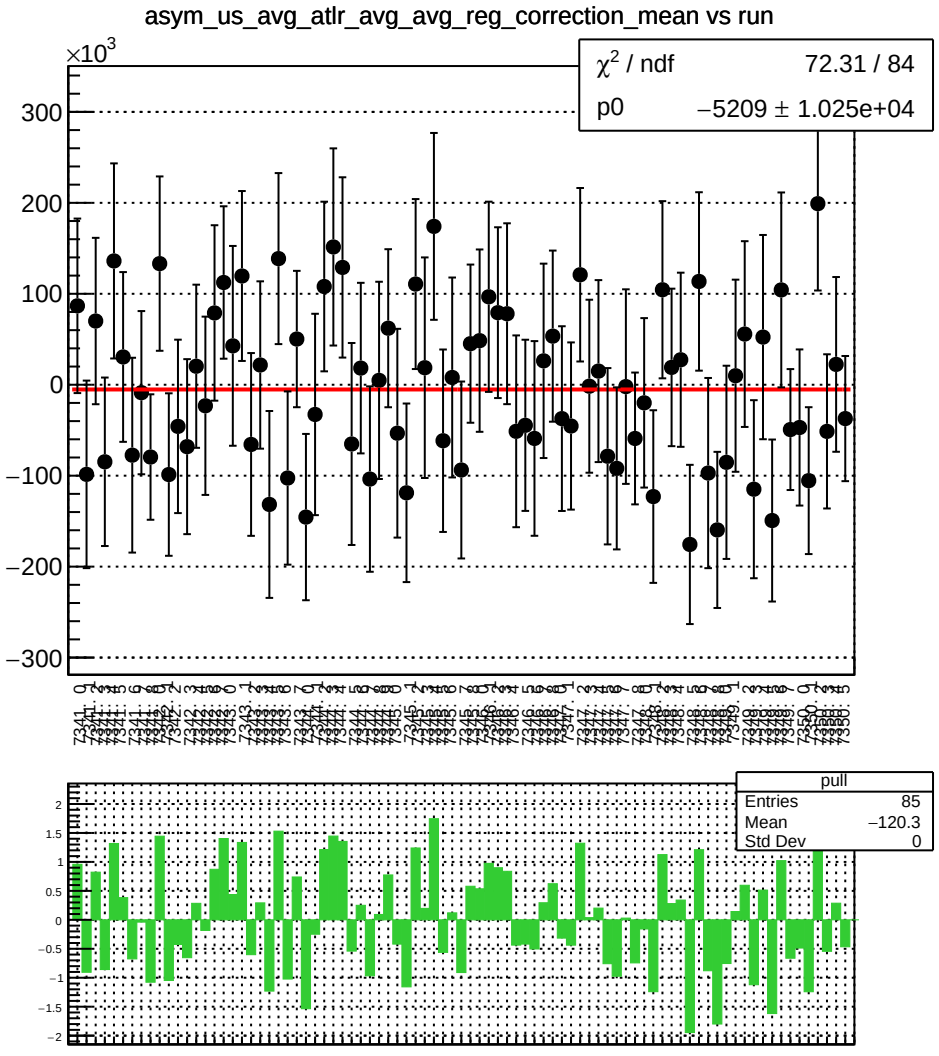

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.65 / 84
p0 −2.669e−14 ± 1.644e−13
pull
Entries 85
Mean 52.25
Std Dev 0

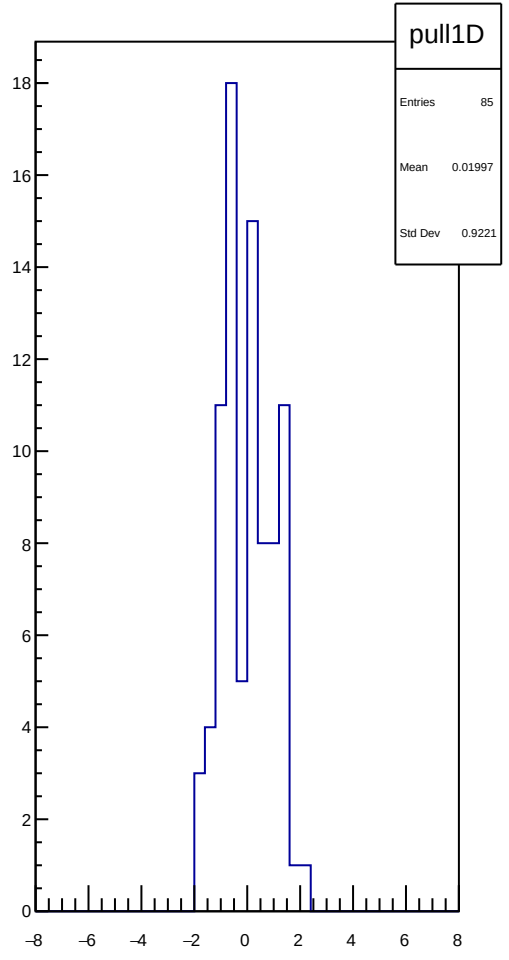

pull1D
Entries 85
Mean −0.05846
Std Dev 0.9723

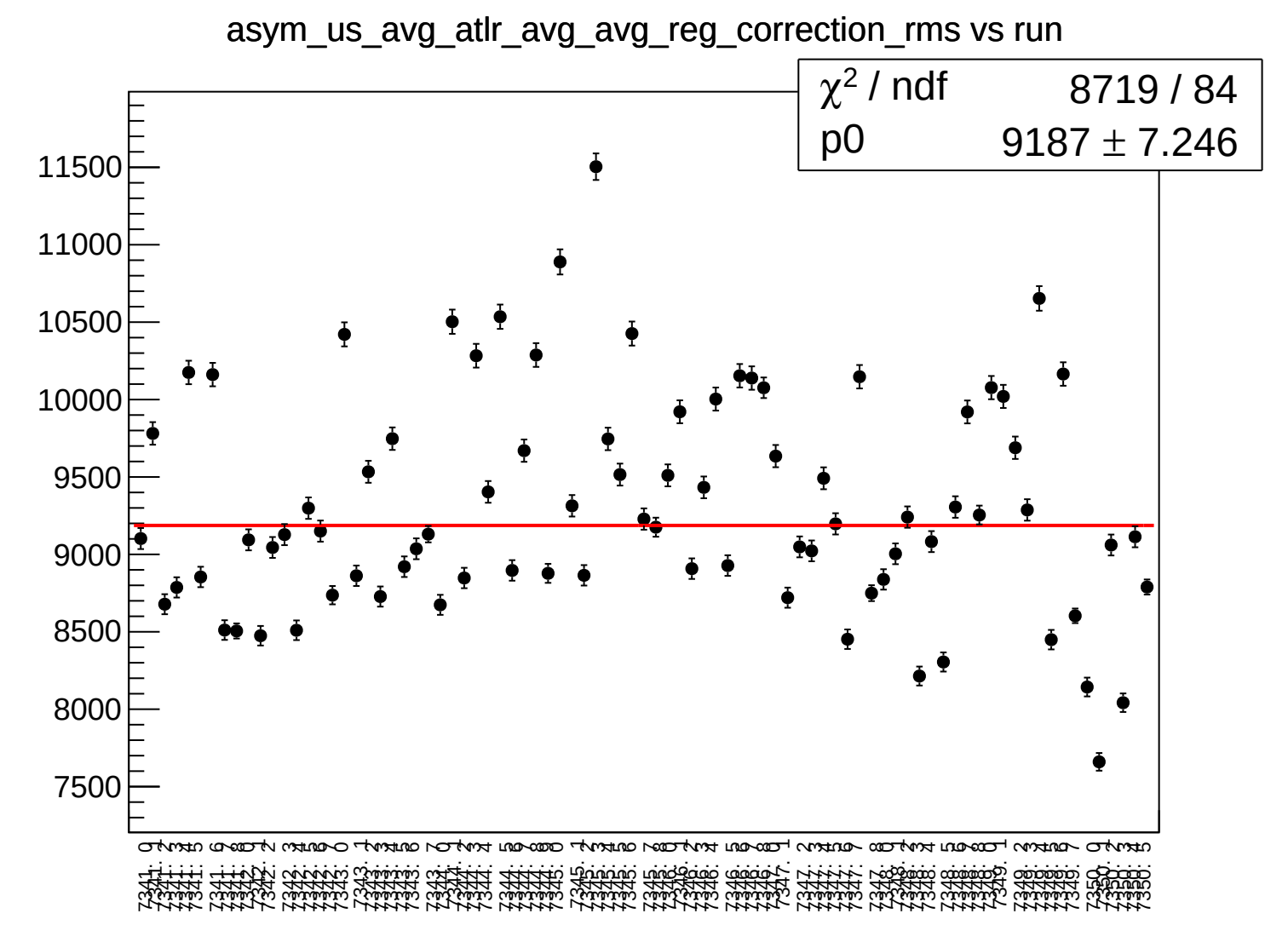

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.748e+05 / 84
p0 1.295e−10 ± 1.163e−13
0.6
0.5
0.4
0.3
0.2
0.1

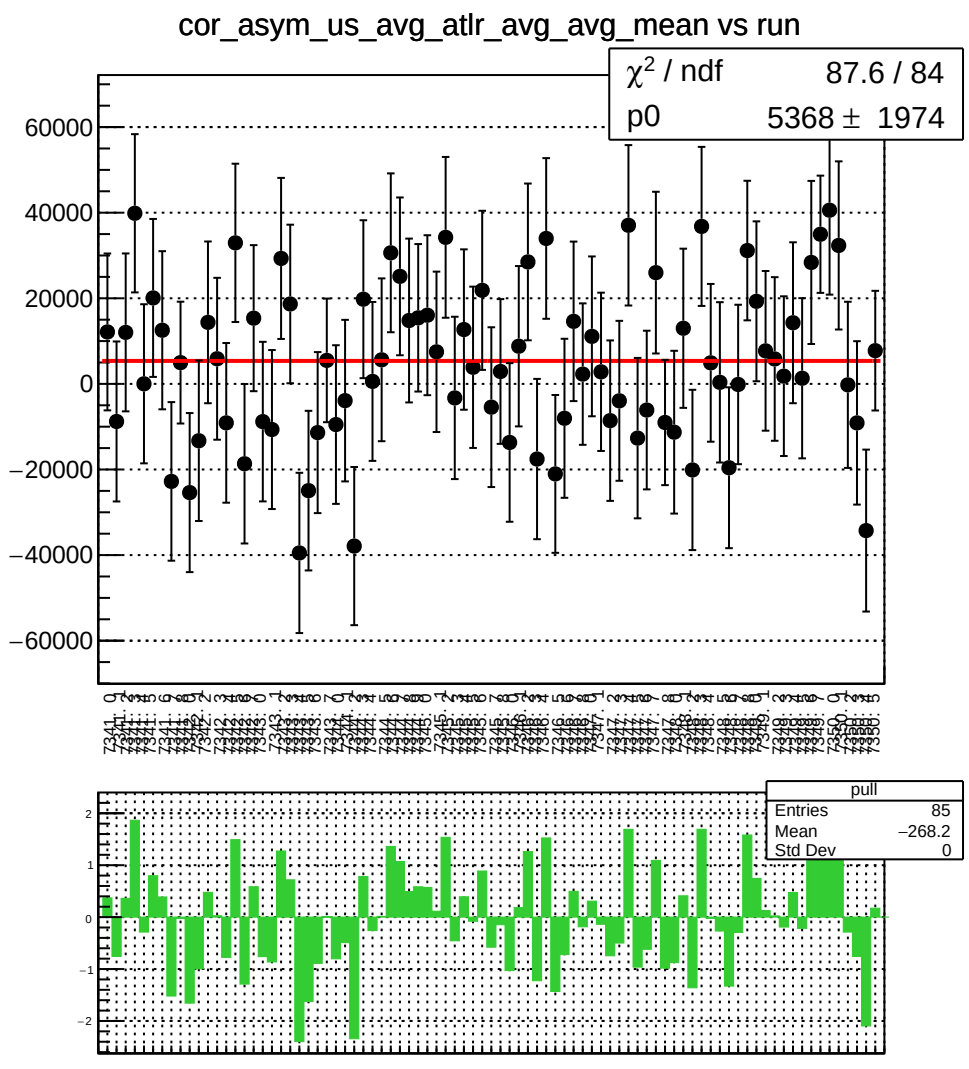

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 87.61 / 84
p0 5368 ± 1974
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −268
Std Dev 0
pull1D
Entries 85
Mean −0.008959
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

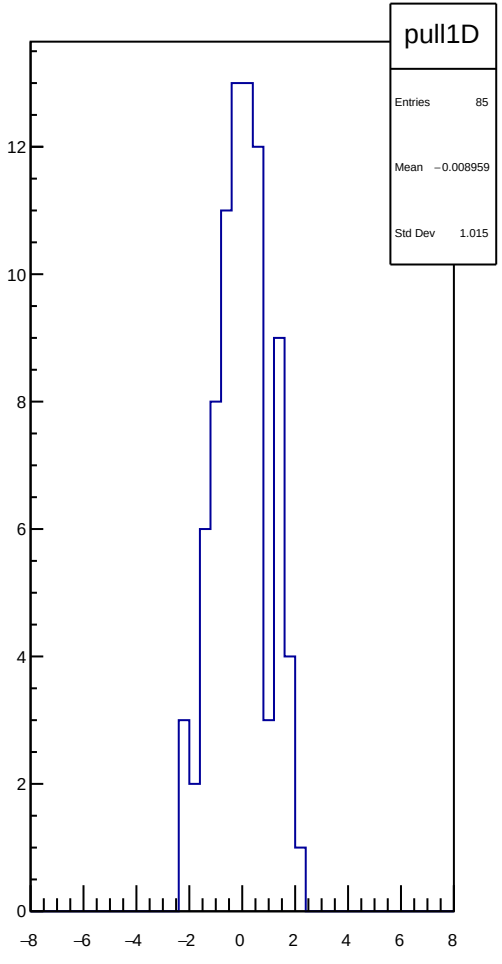

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 251.1 / 84
p0 1774 ± 1.396
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

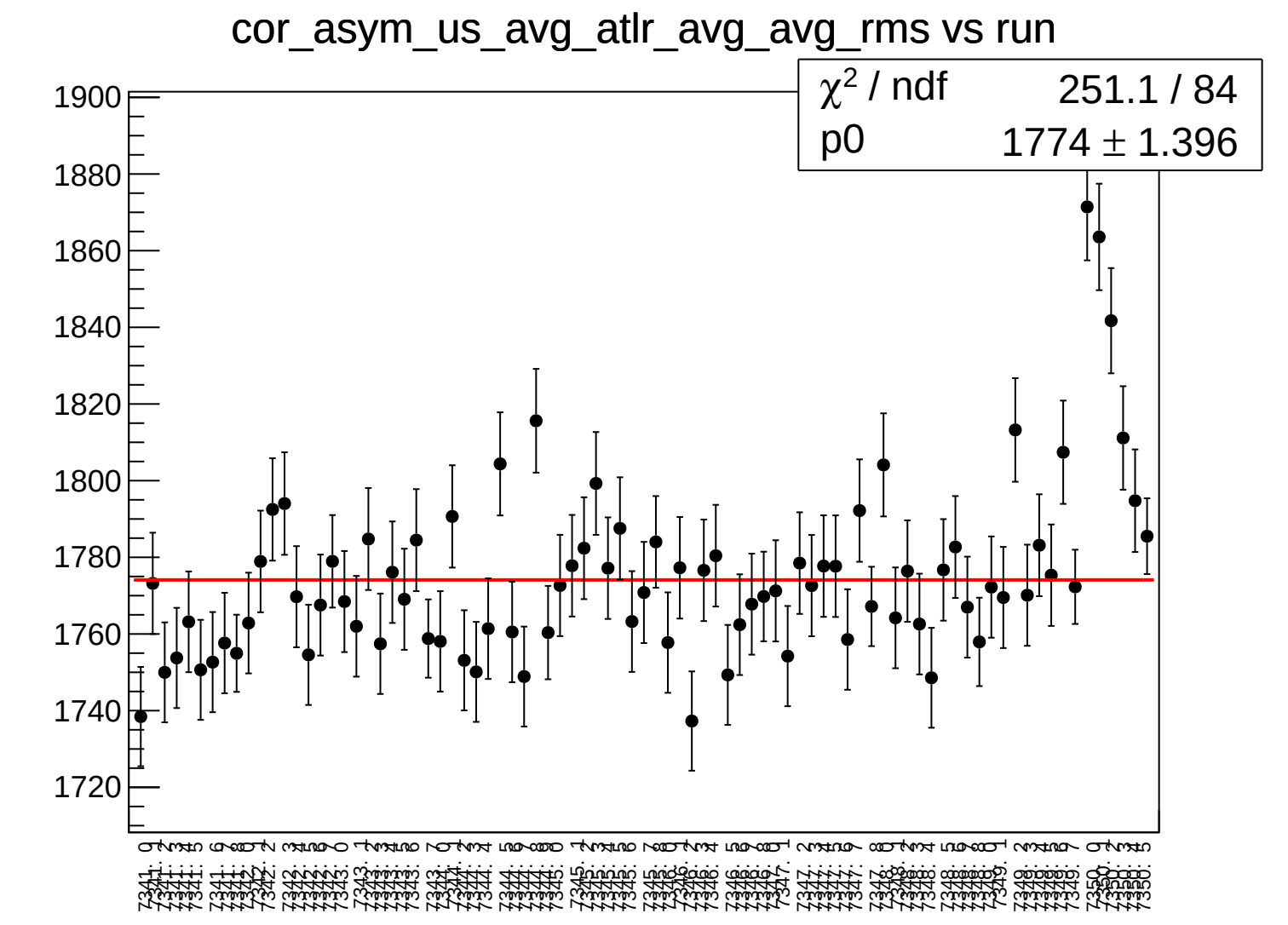

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 72.31 / 84
p0 −5209 ± 1.025e+04
pull
Entries 85
Mean −120.3
Std Dev 0

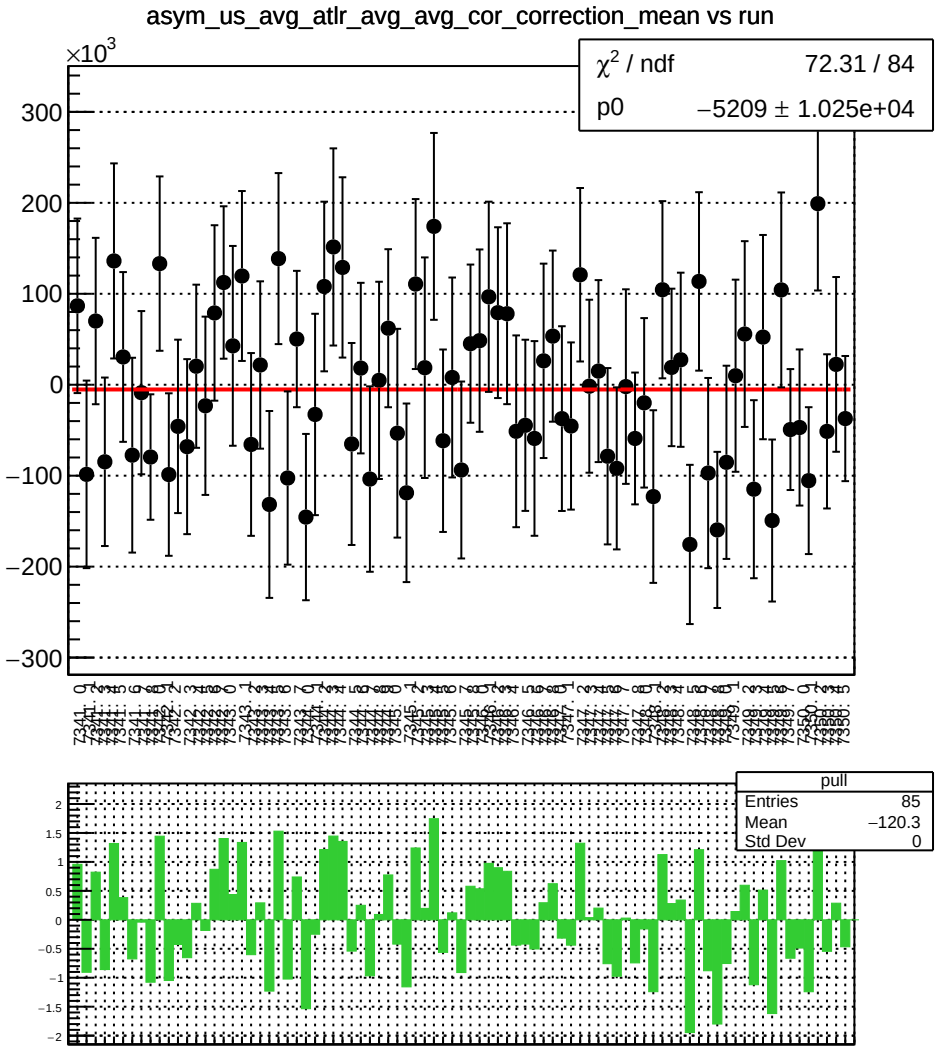

pull1D
Entries 85
Mean 0.01997
Std Dev 0.9221

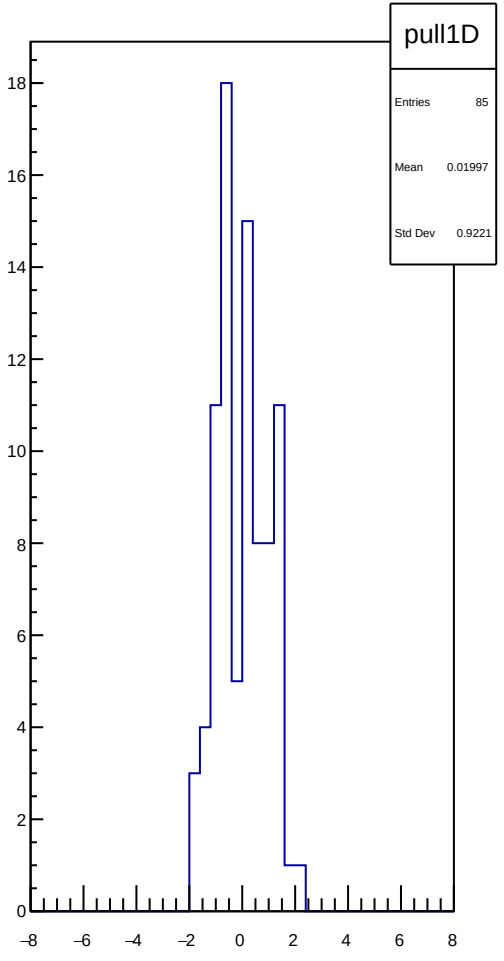

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 8719 / 84
p0 9187 ± 7.246
11500
11000
10500
10000
9500
9000
8500
8000
7500

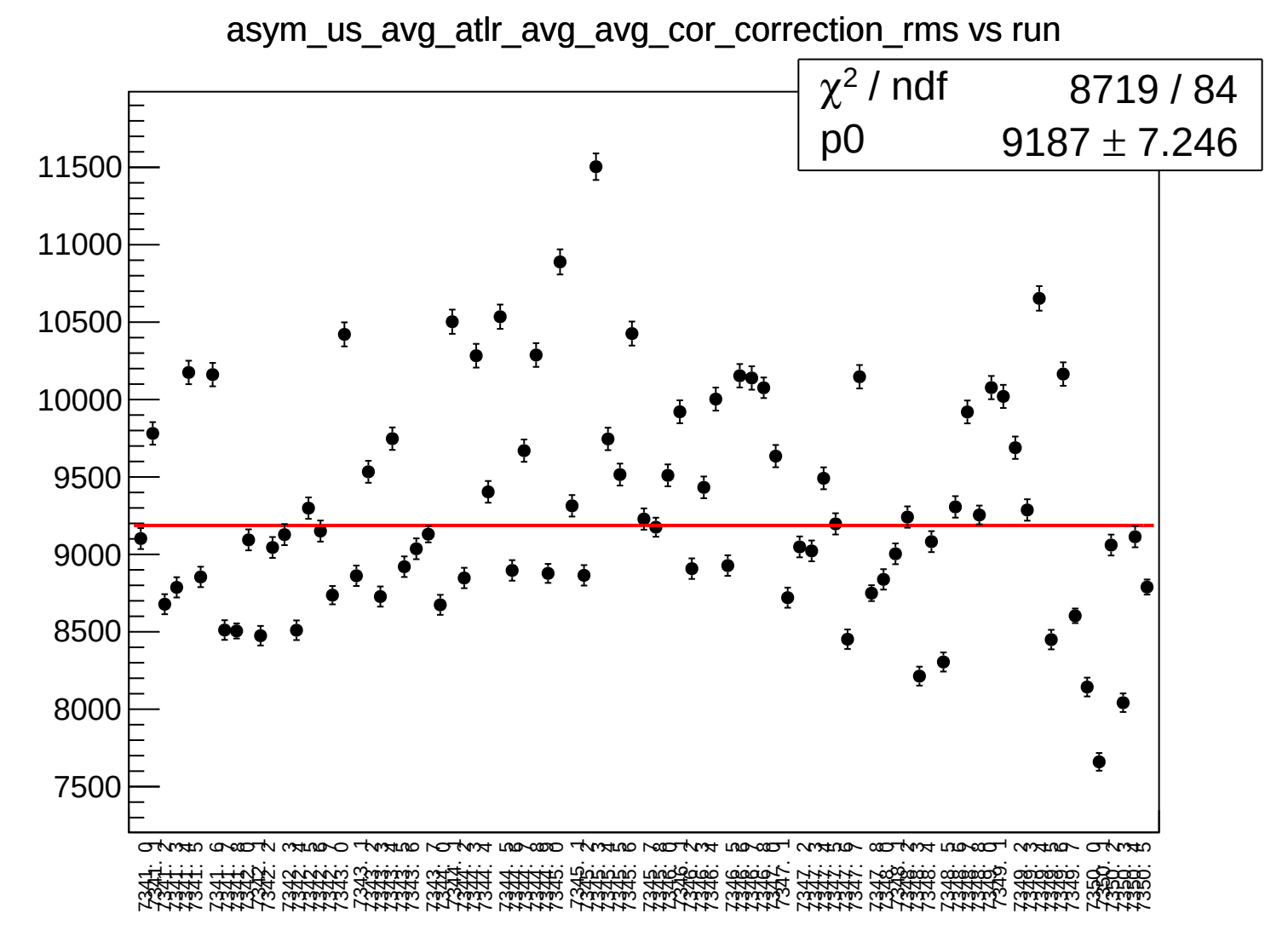

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 87.6 / 84
p0 5368 ± 1974
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −268.2
Std Dev 0
2
1
0
−1
−2

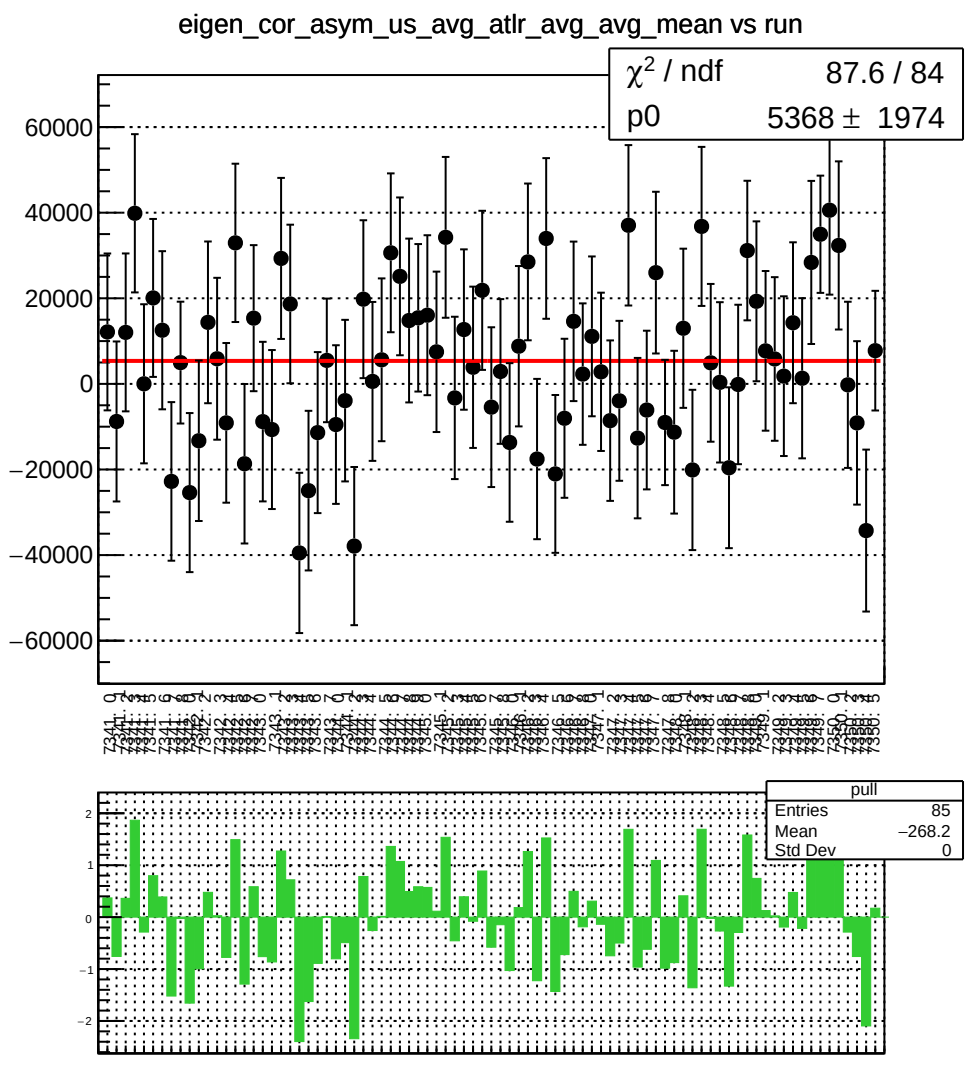

pull1D
Entries 85
Mean −0.008959
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

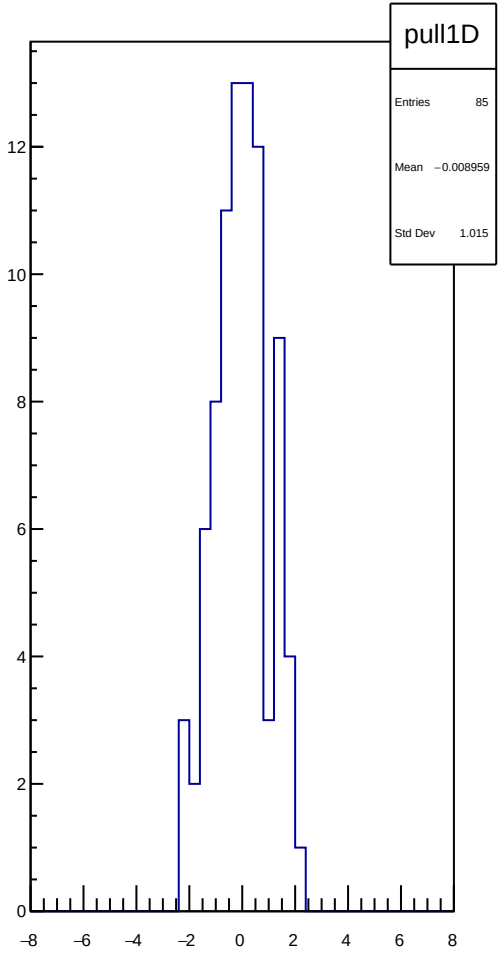

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 251.1 / 84
p0 1774 ± 1.396
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

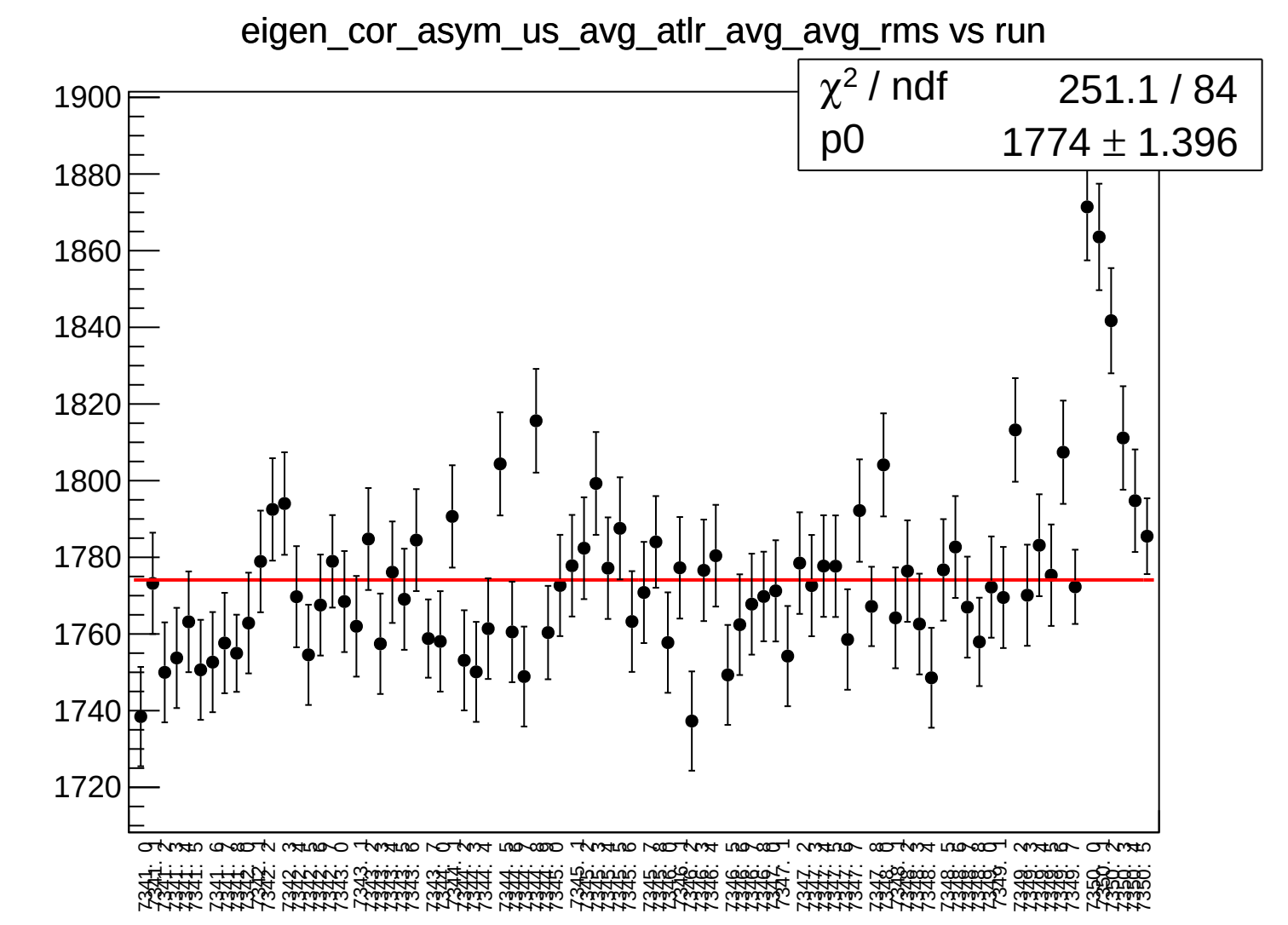

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 72.31 / 84
p0 −5209 ± 1.025e+04
pull
Entries 85
Mean −120.3
Std Dev 0

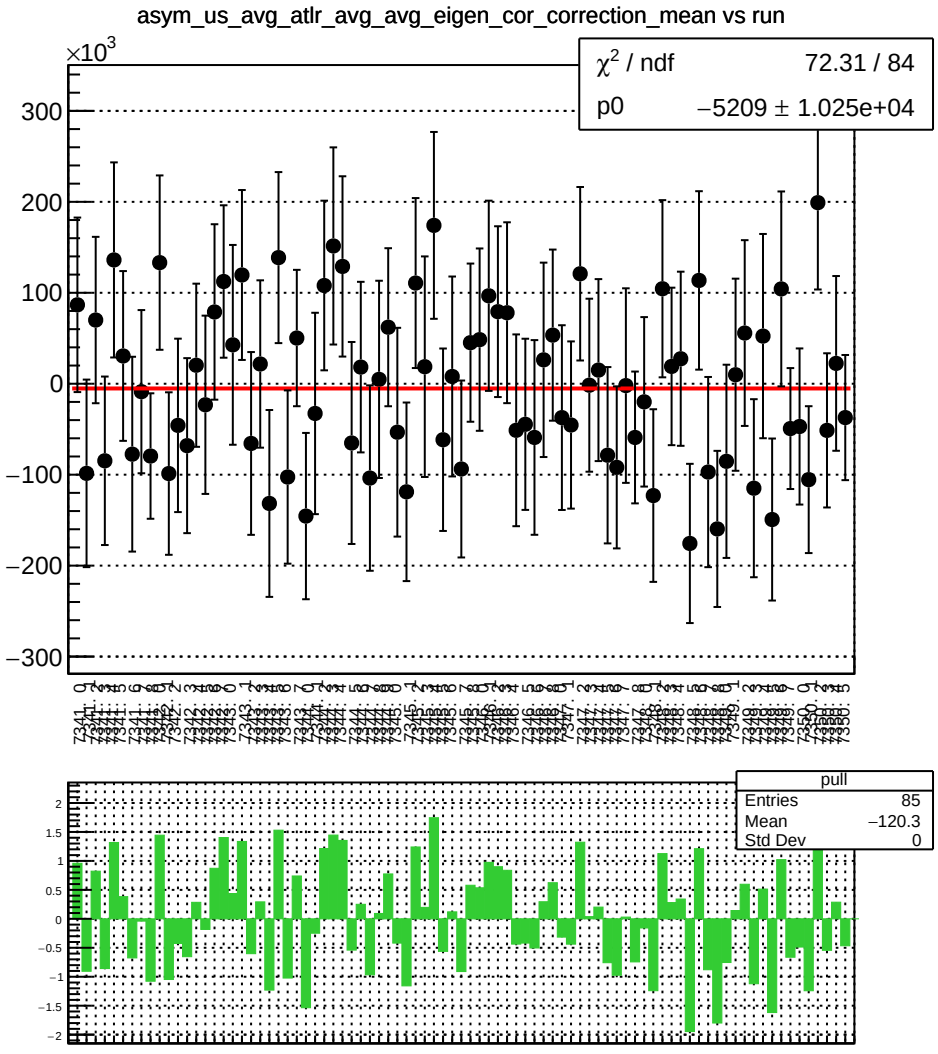

pull1D
Entries 85
Mean 0.01997
Std Dev 0.9221

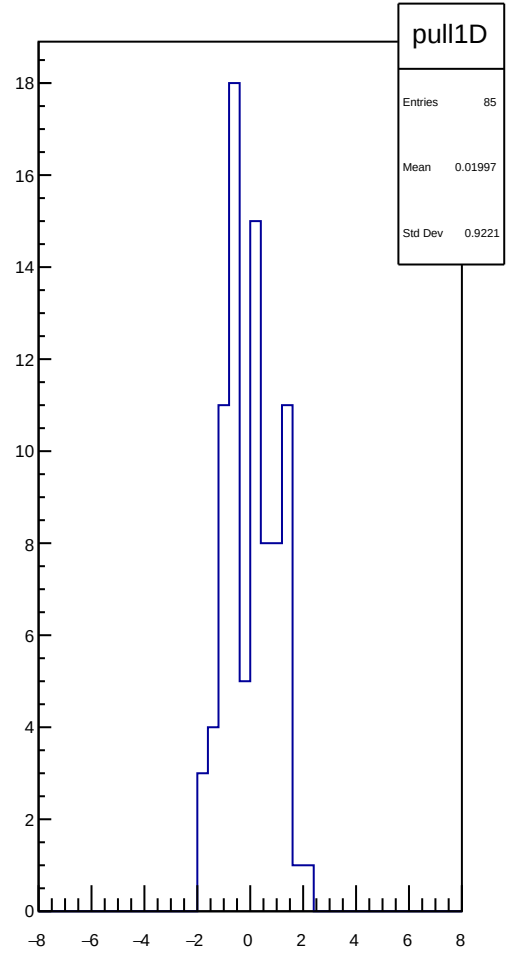

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 8719 / 84
p0 9187 ± 7.246
11500
11000
10500
10000
9500
9000
8500
8000
7500

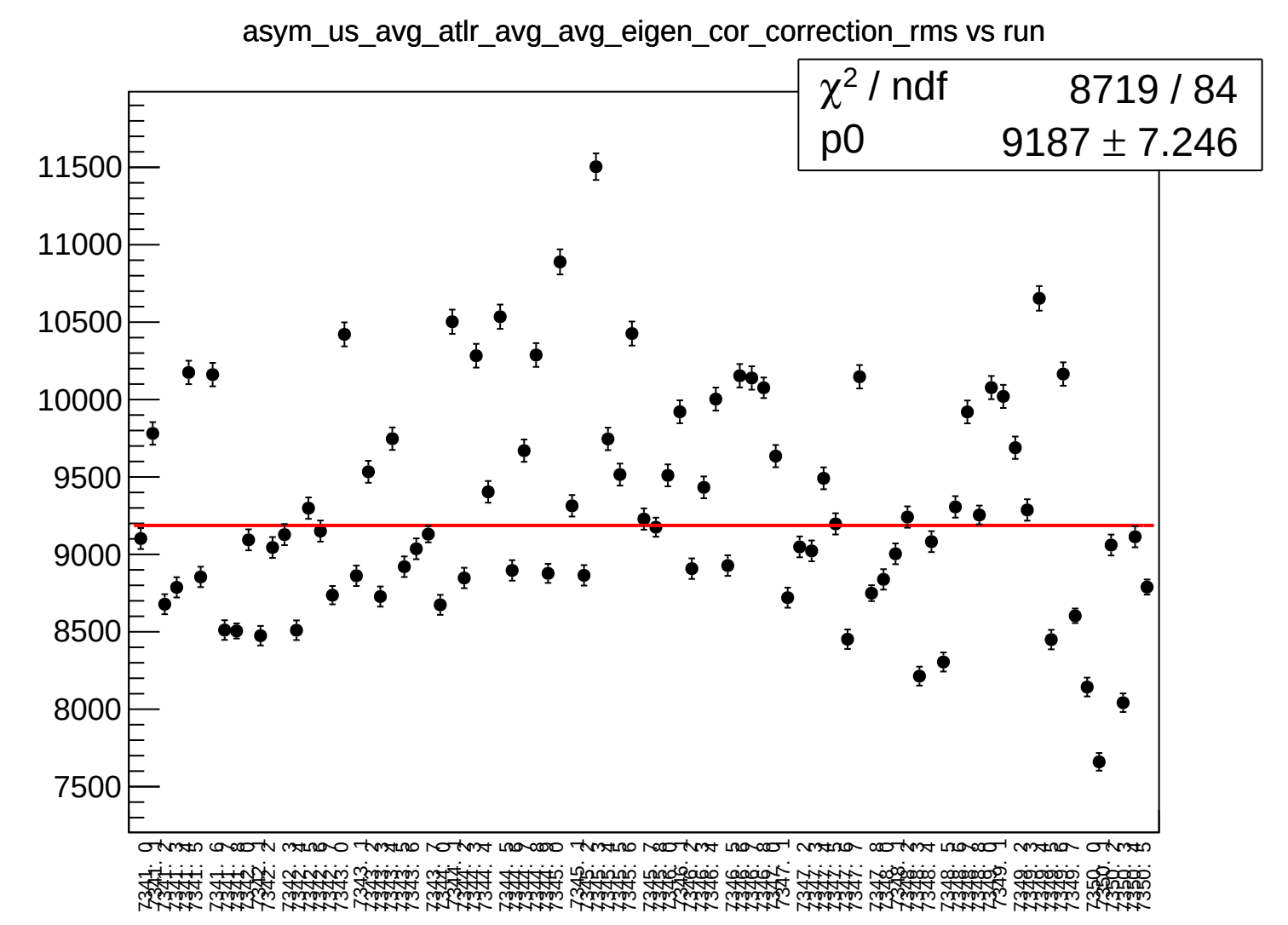

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 87.6 / 84
p0 5368 ± 1974
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −268.2
Std Dev 0
2
1
0
−1
−2

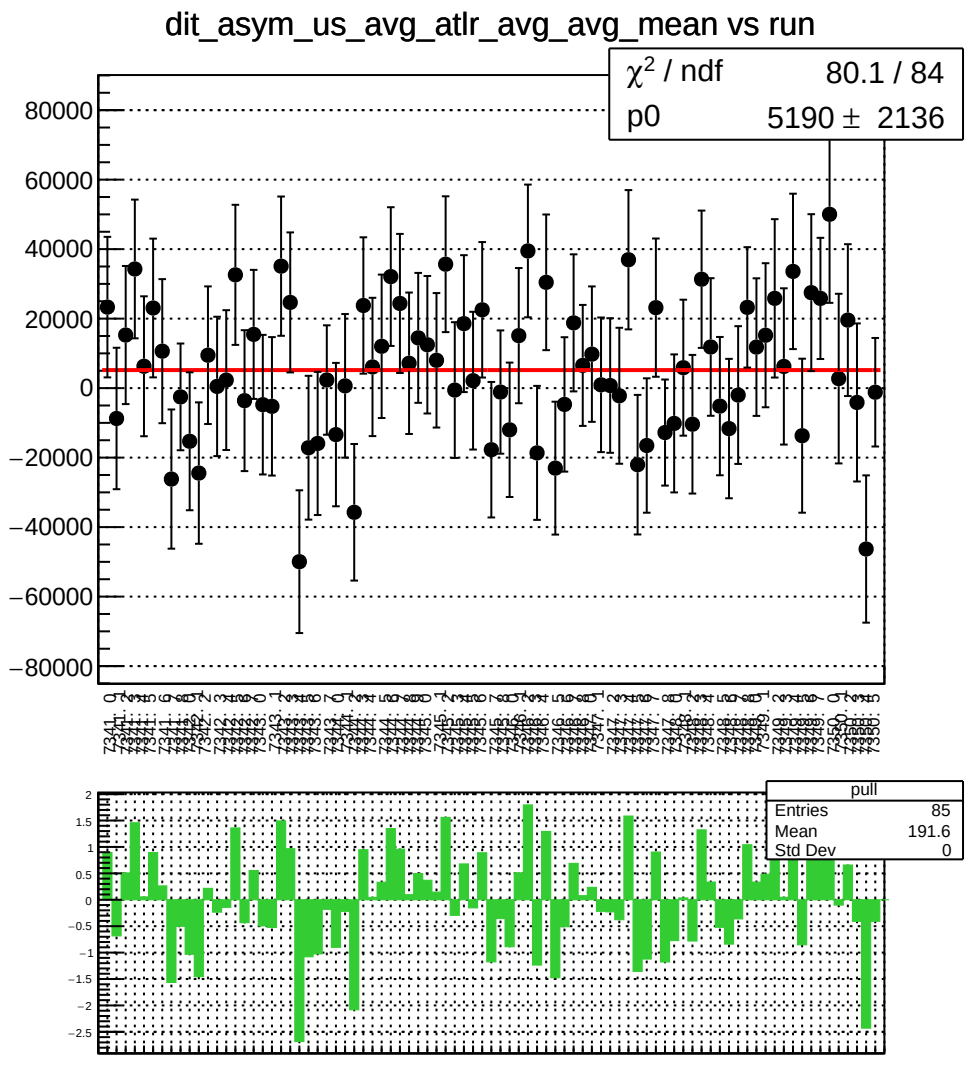

pull1D
Entries 85
Mean −0.008959
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

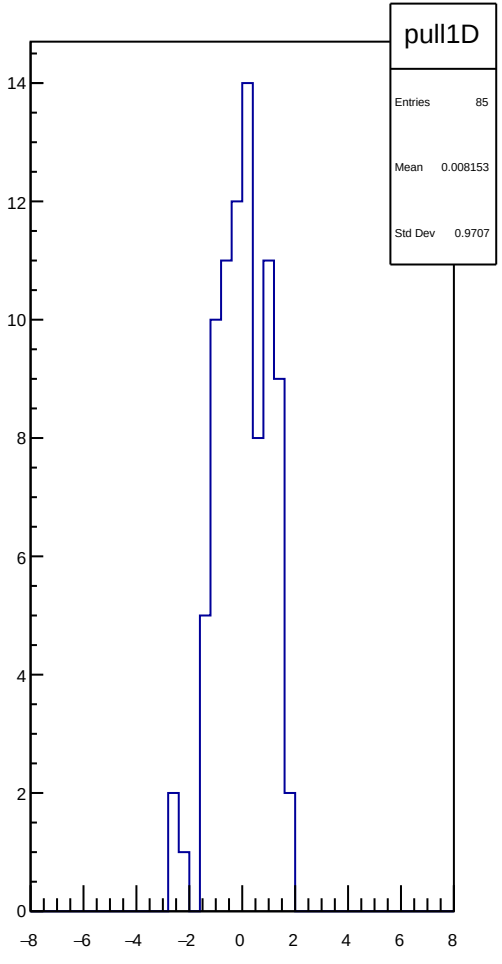

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 251.1 / 84
p0 1774 ± 1.396
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

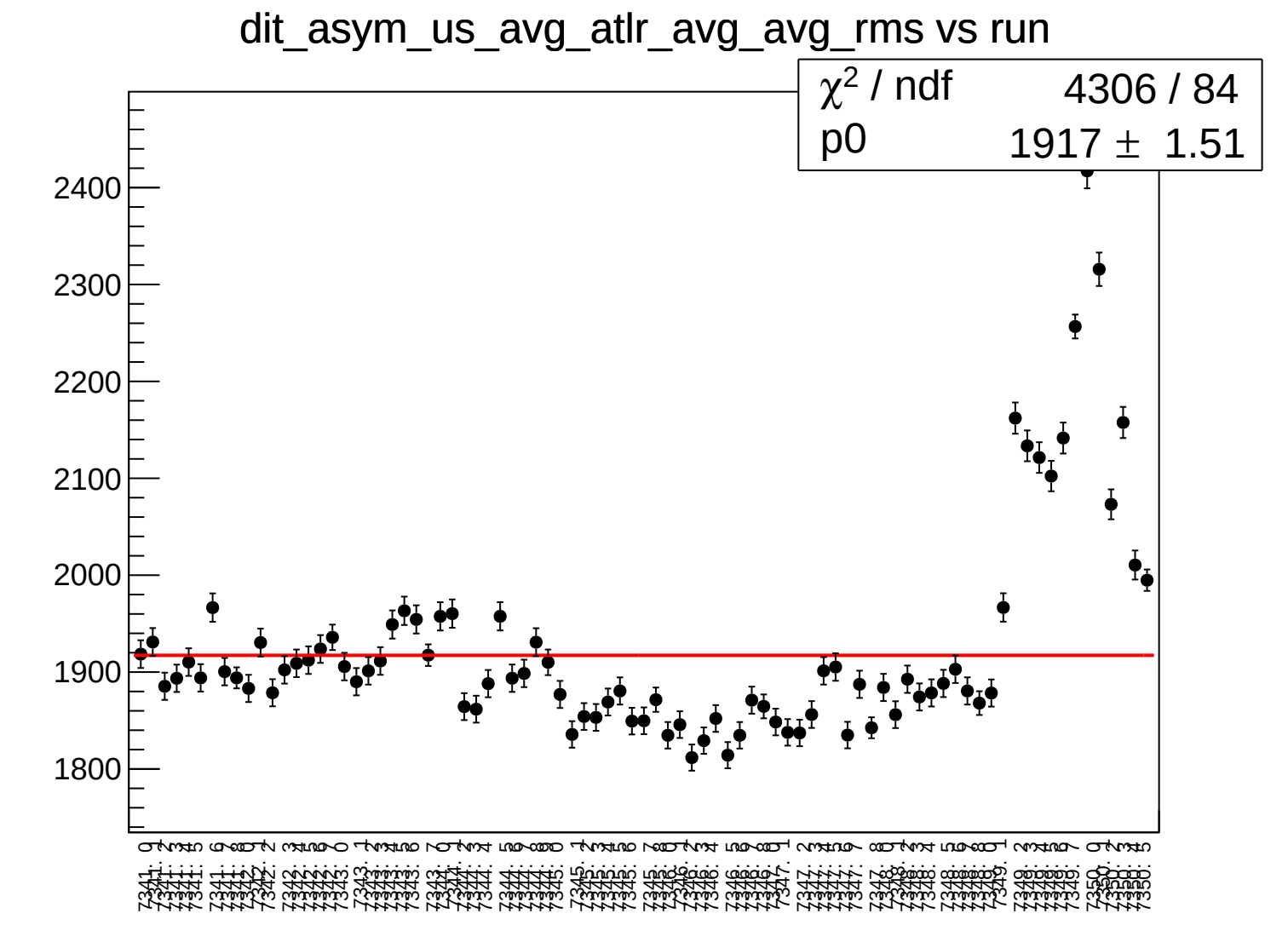

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 72.31 / 84
p0 −5209 ± 1.025e+04
pull
Entries 85
Mean −120.3
Std Dev 0

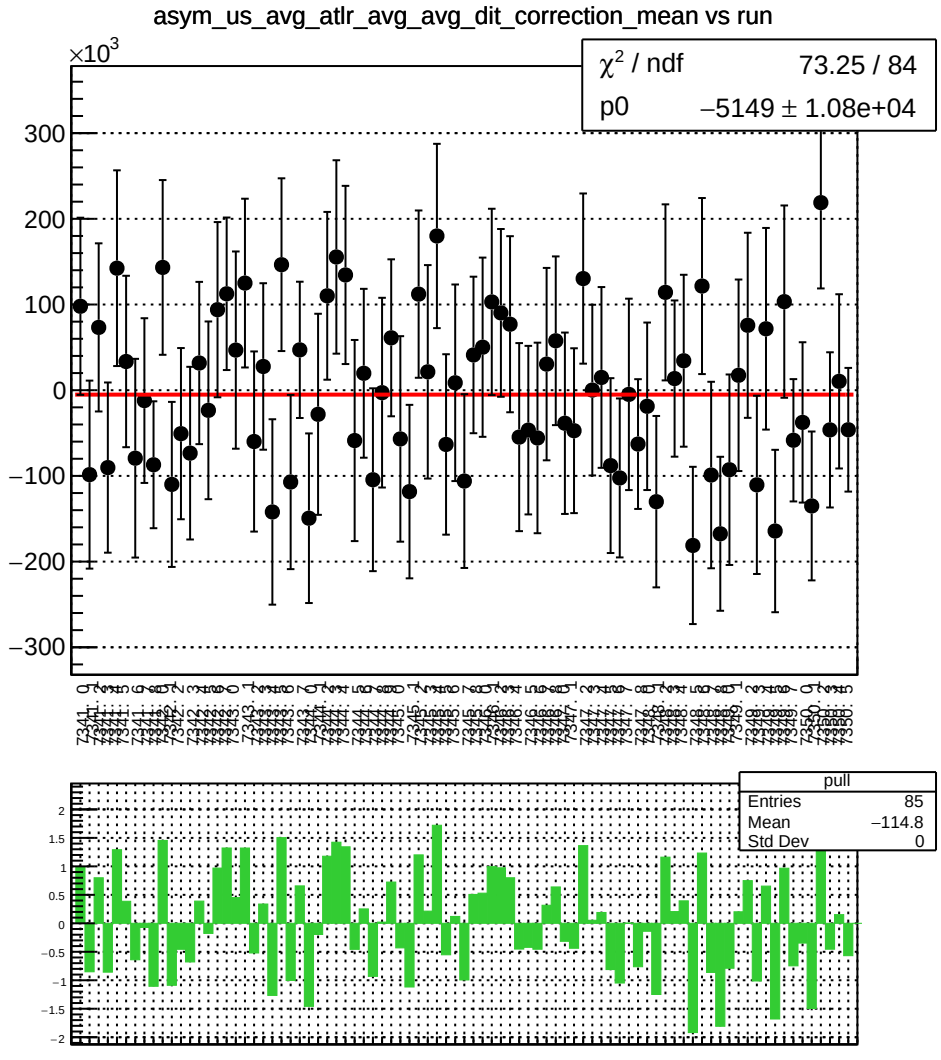

pull1D
Entries 85
Mean 0.01997
Std Dev 0.9221

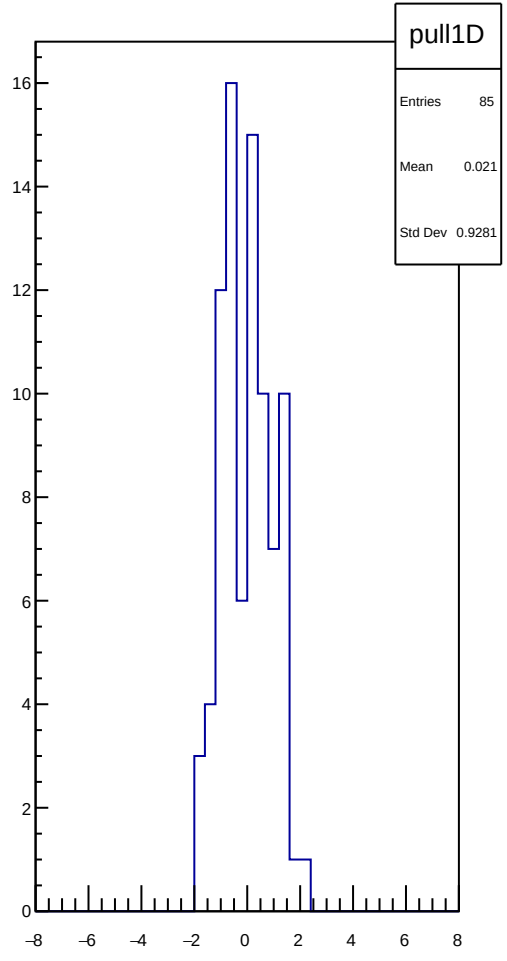

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 8719 / 84
p0 9187 ± 7.246
11500
11000
10500
10000
9500
9000
8500
8000
7500

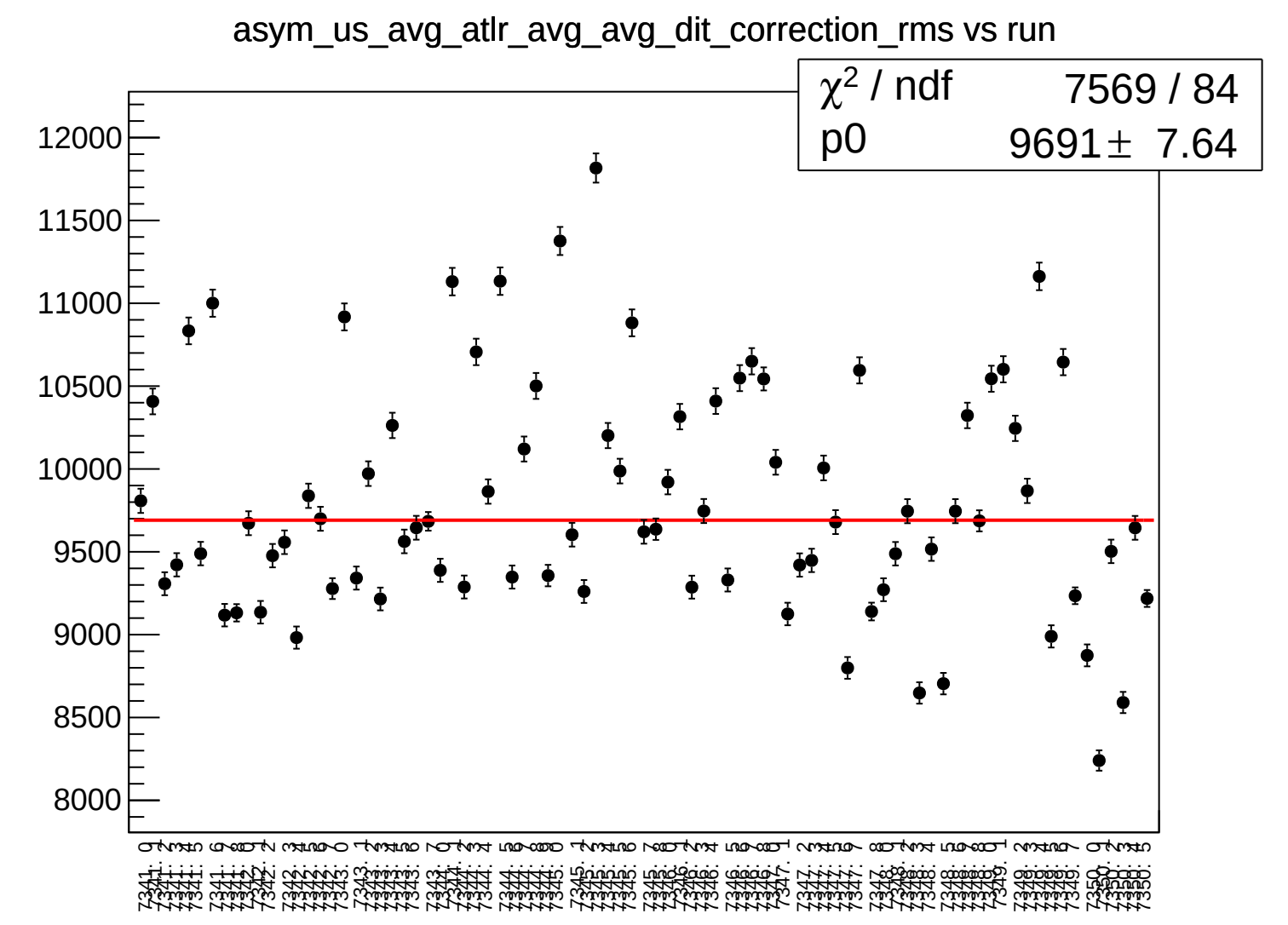

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 80.1 / 84
p0 5190 ± 2136
pull
Entries 85
Mean 191.6
Std Dev 0

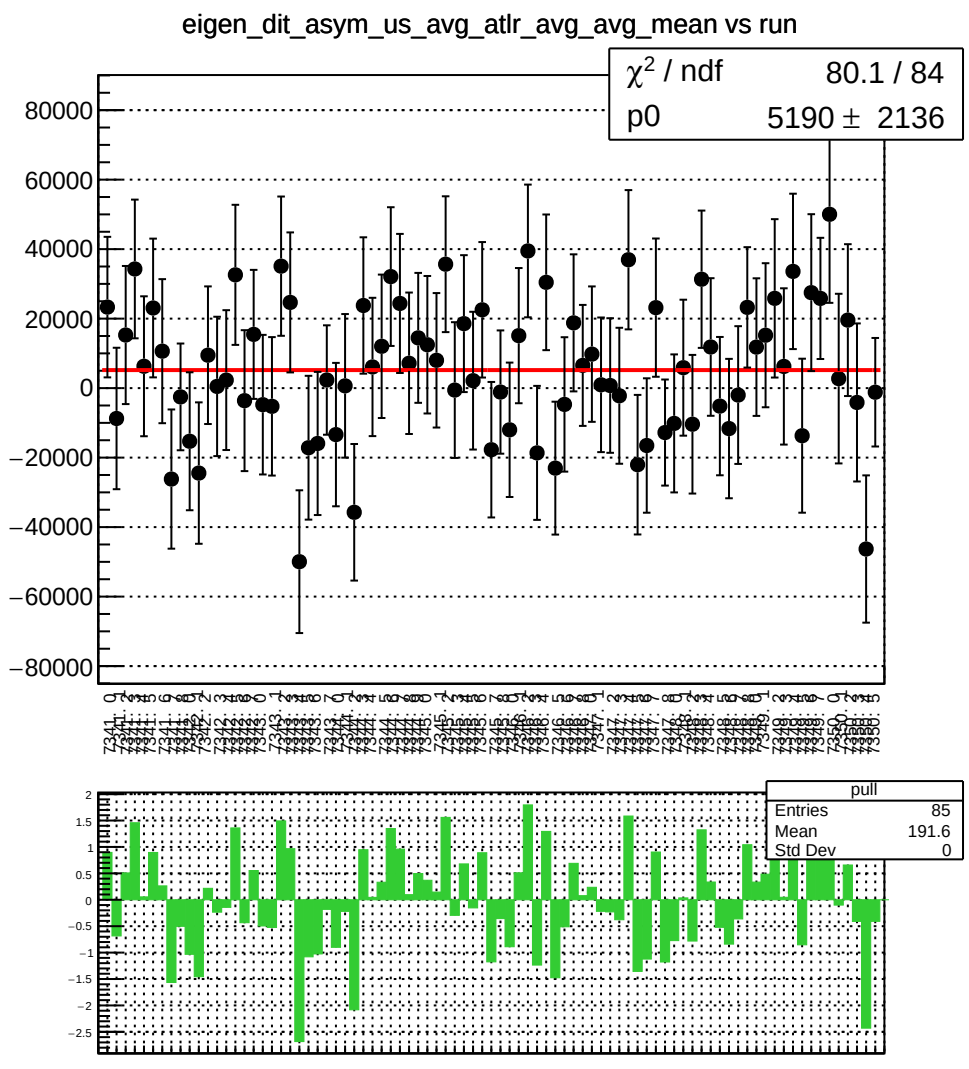

pull1D
Entries 85
Mean 0.008153
Std Dev 0.9707

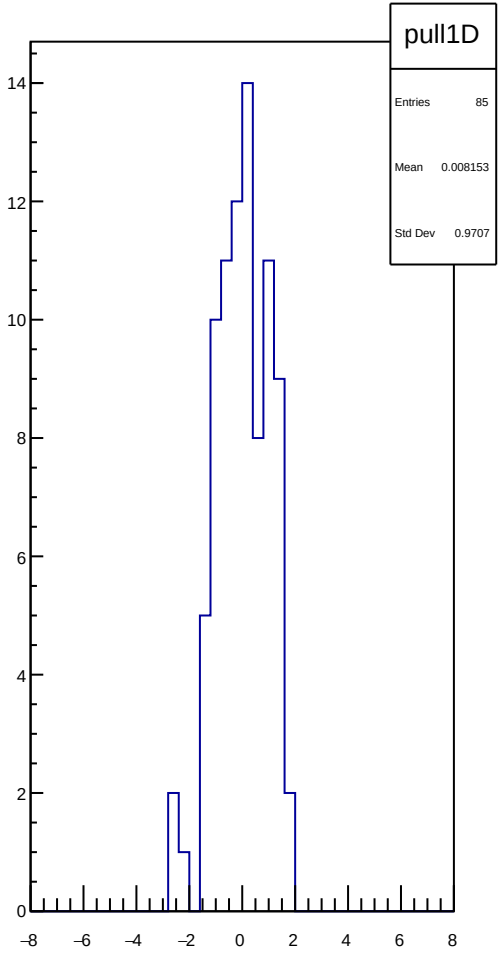

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4306 / 84
p0 1917 ± 1.51
2400
2300
2200
2100
2000
1900
1800

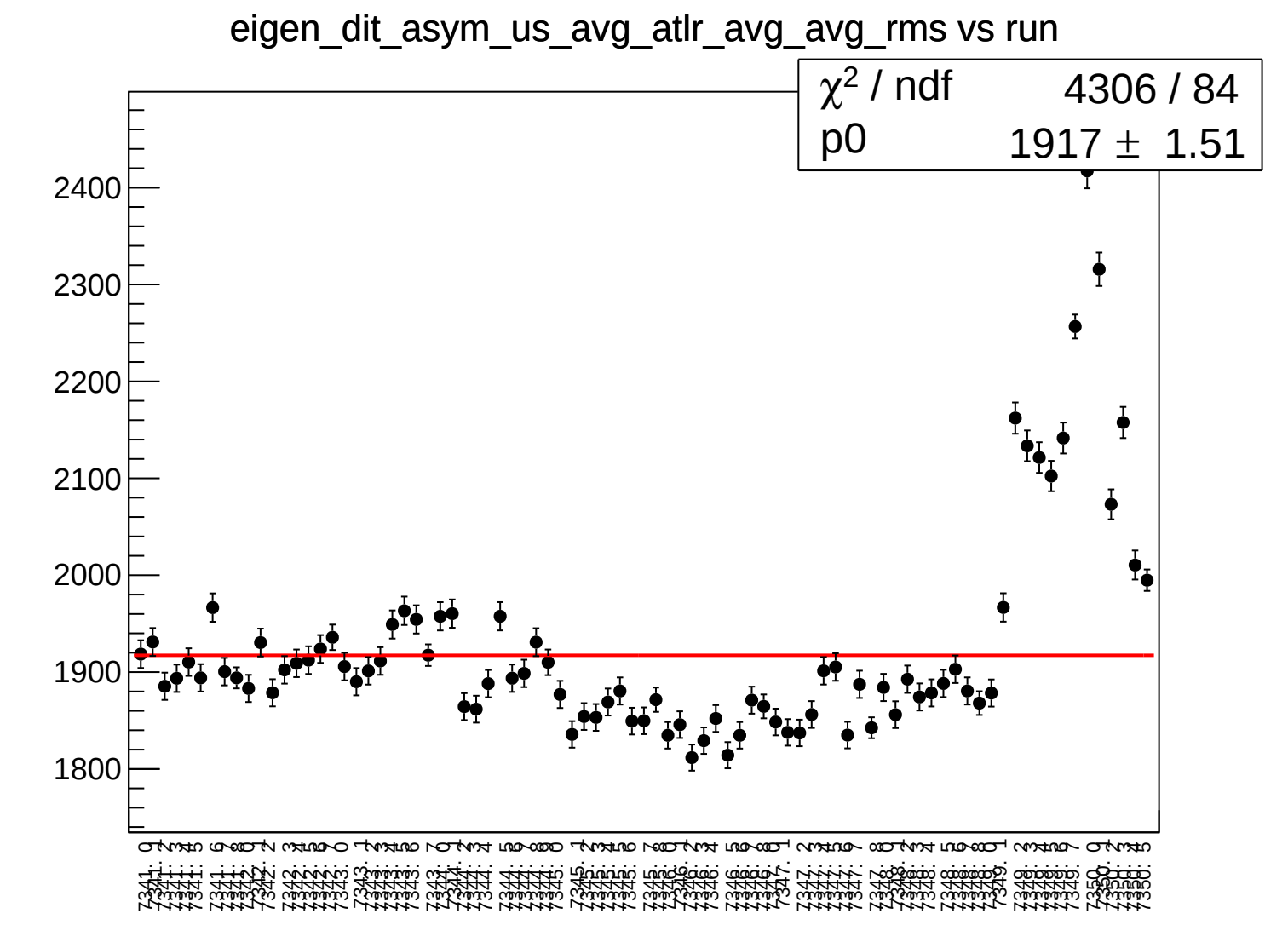

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 73.25 / 84
p0 −5149 ± 1.08e+04
pull
Entries 85
Mean −114.8
Std Dev 0

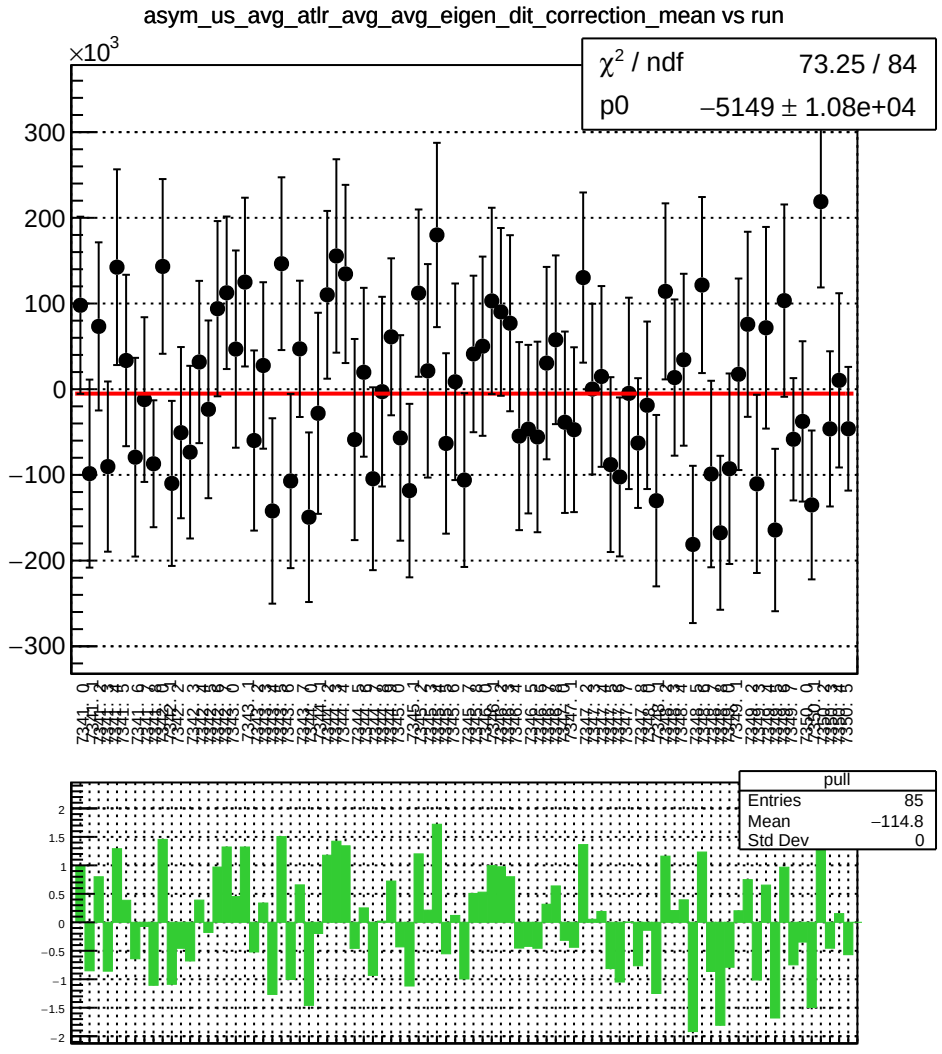

pull1D
Entries 85
Mean 0.021
Std Dev 0.9281

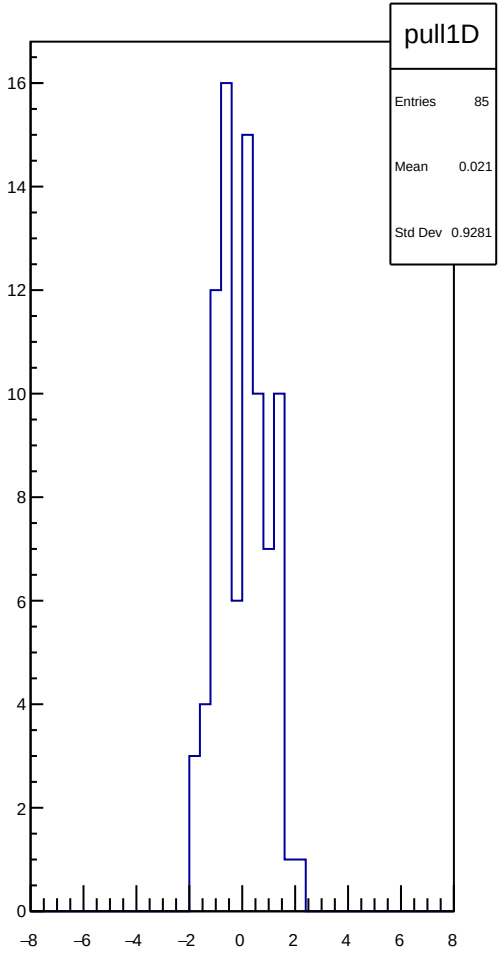

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 7569 / 84
p0 9691 ± 7.64
12000
11500
11000
10500
10000
9500
9000
8500
8000

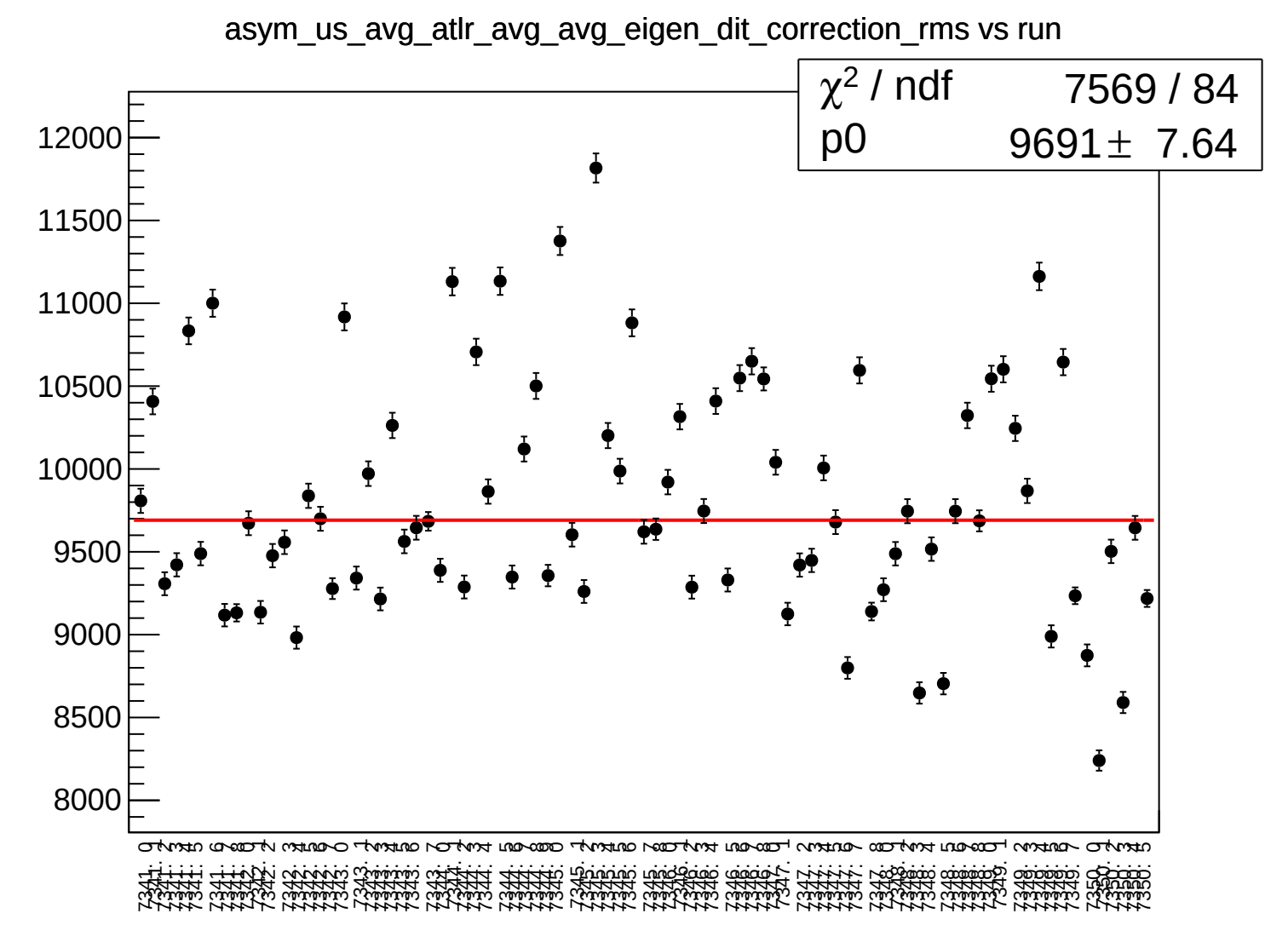

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 80.1 / 84
p0 5190 ± 2136
pull
Entries 85
Mean 191.6
Std Dev 0

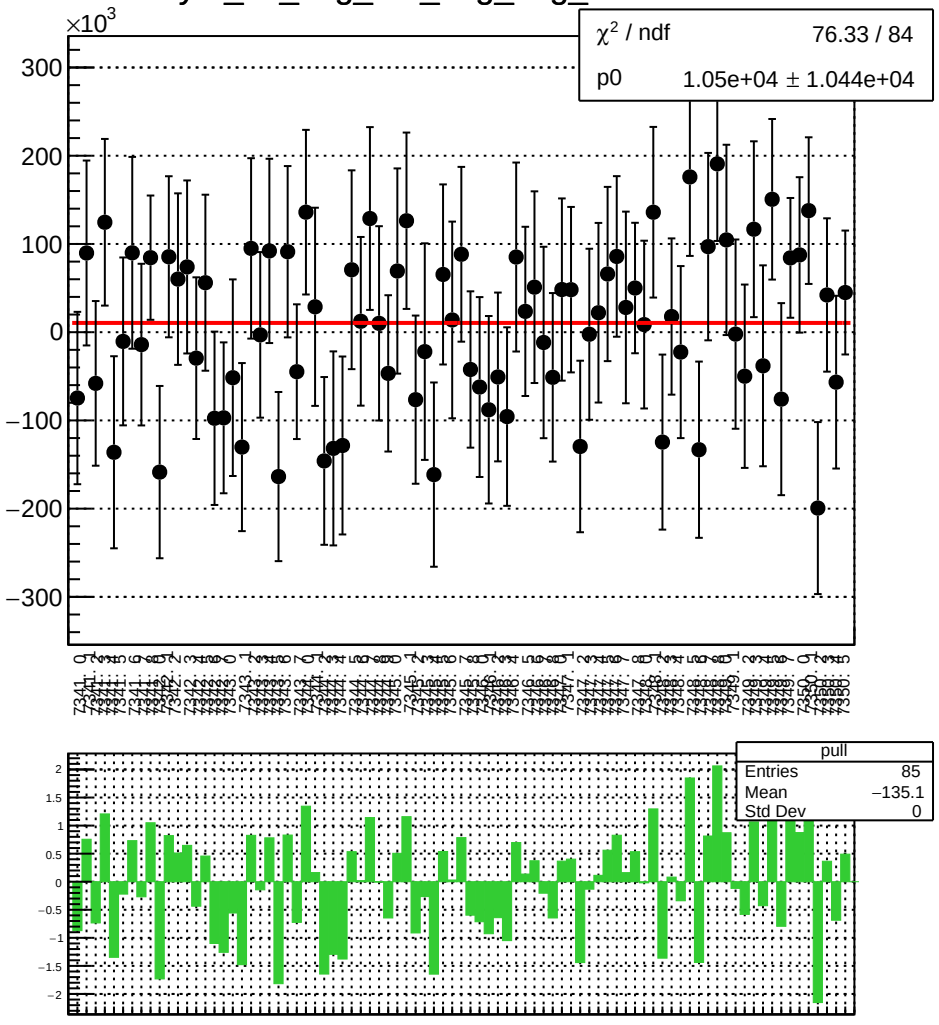

pull1D
Entries 85
Mean 0.008153
Std Dev 0.9707

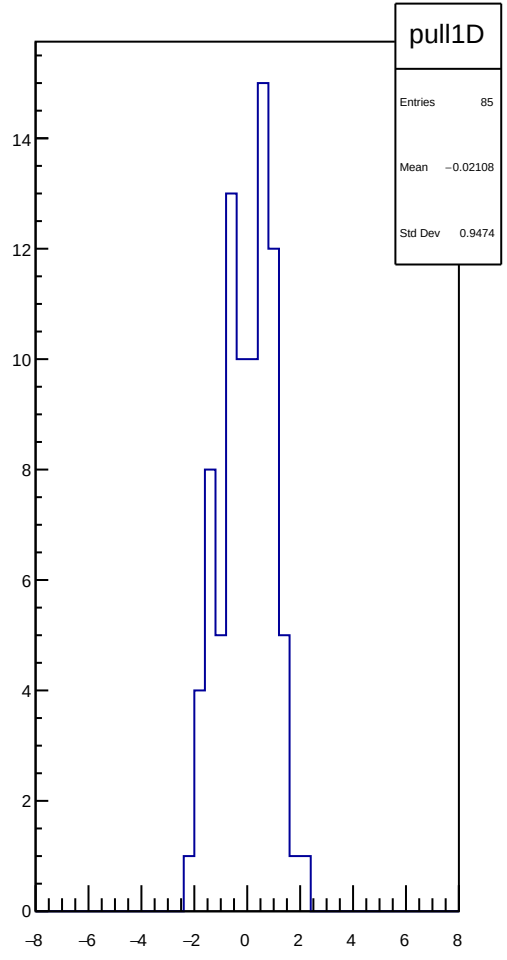

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4306 / 84
p0 1917 ± 1.51
2400
2300
2200
2100
2000
1900
1800

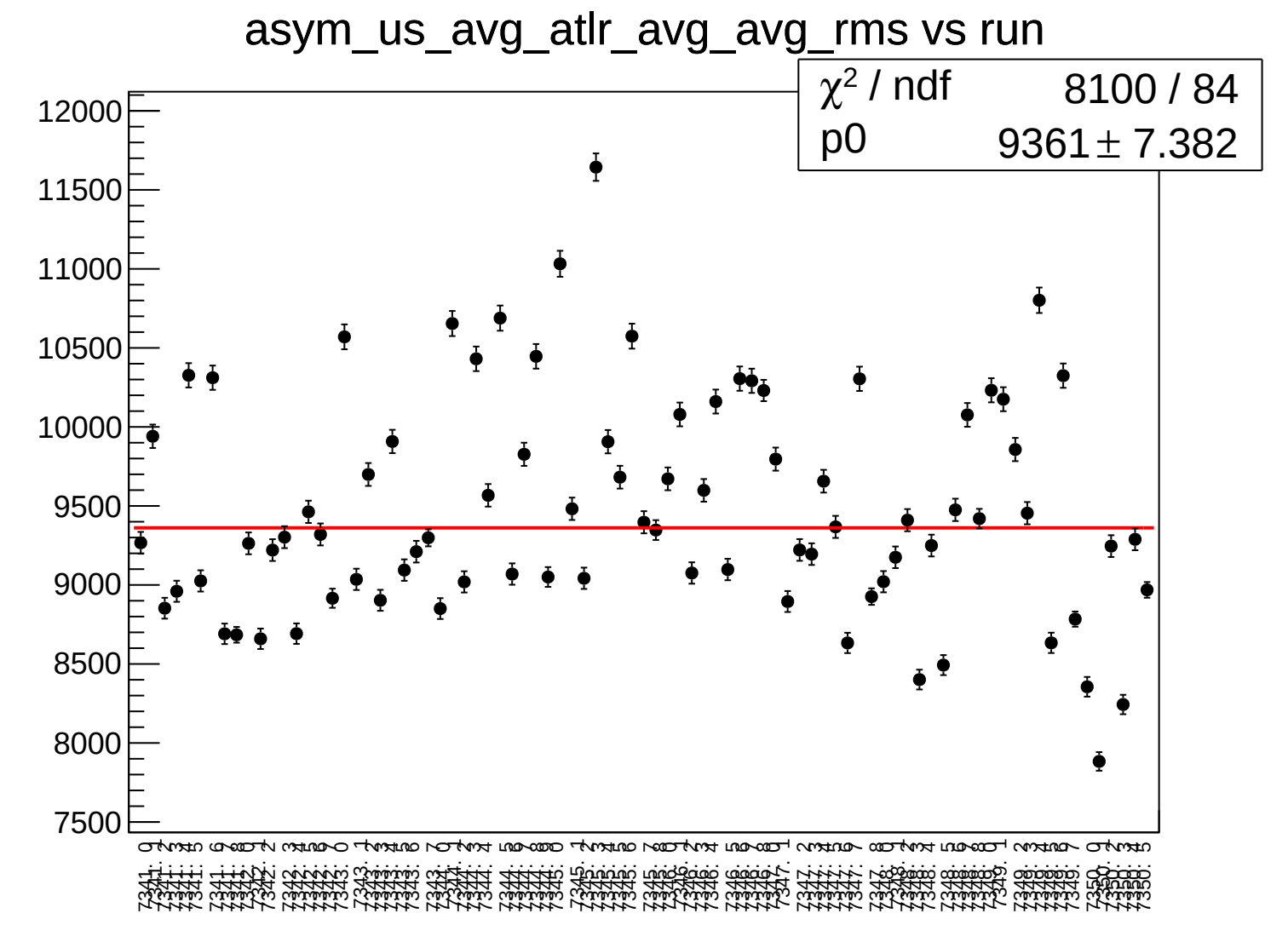

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 73.25 / 84
p0 −5149 ± 1.08e+04
pull
Entries 85
Mean −114.8
Std Dev 0

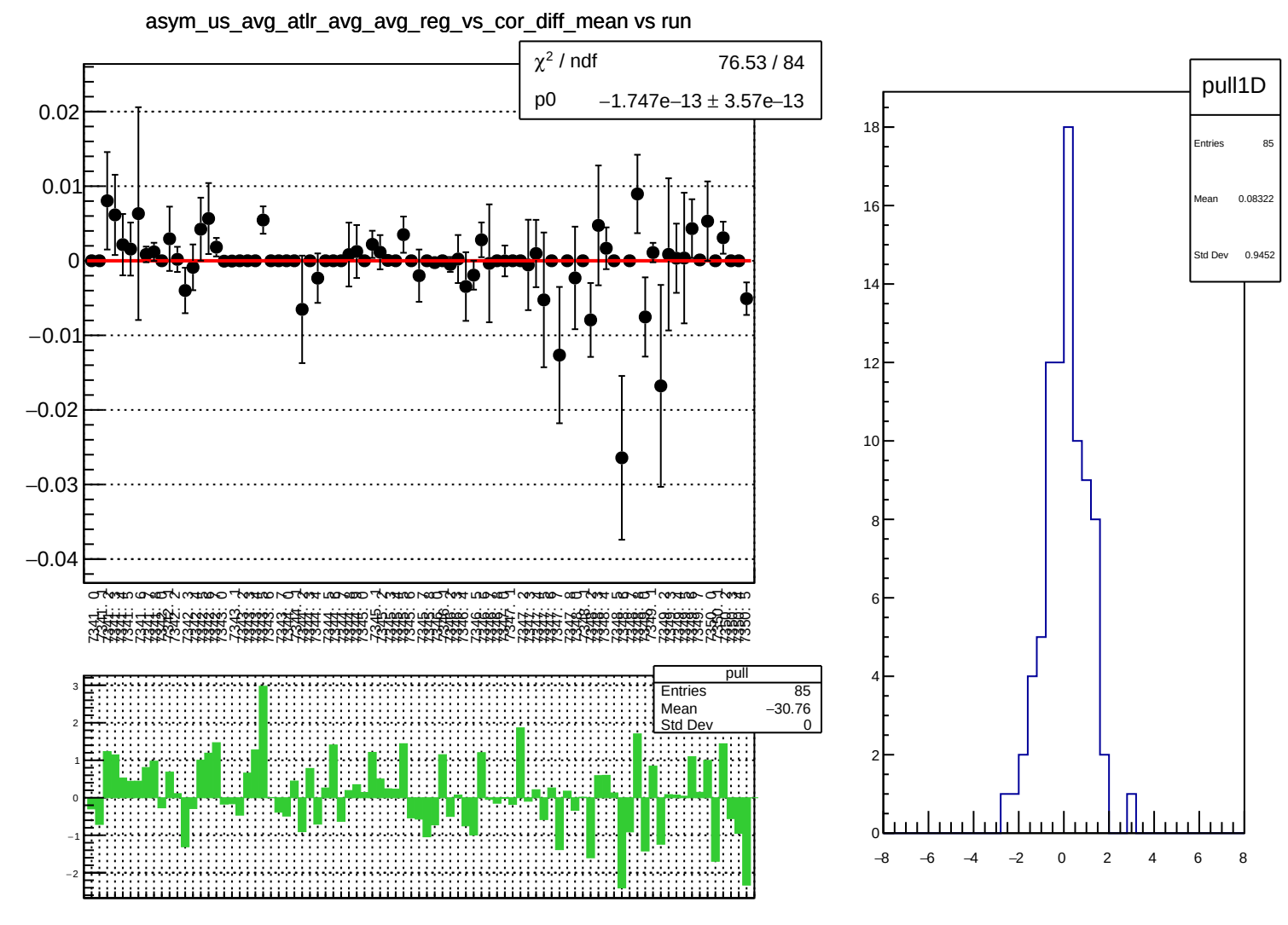

pull1D
Entries 85
Mean 0.021
Std Dev 0.9281

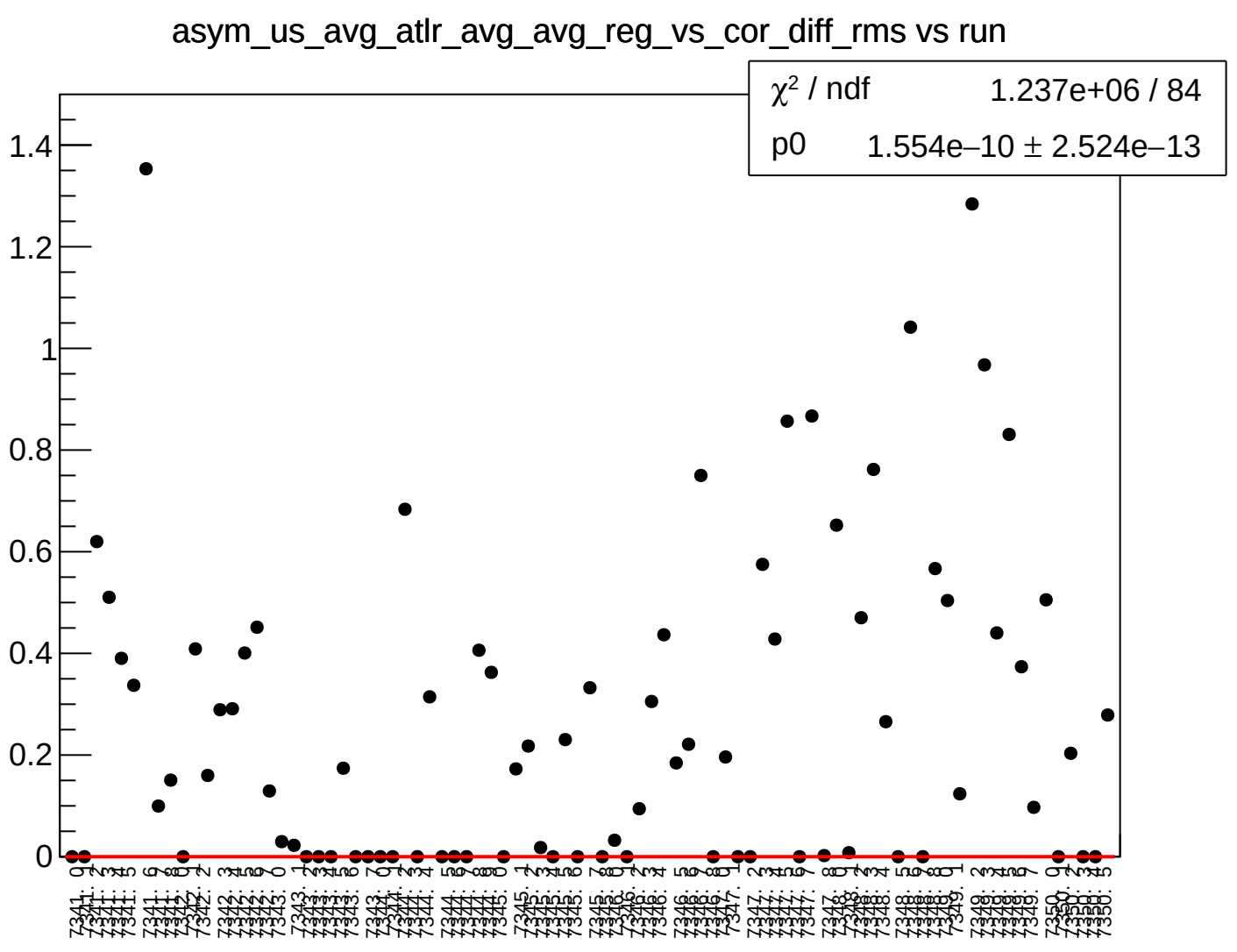

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7569 / 84
p0 9691 ± 7.64
12000
11500
11000
10500
10000
9500
9000
8500
8000

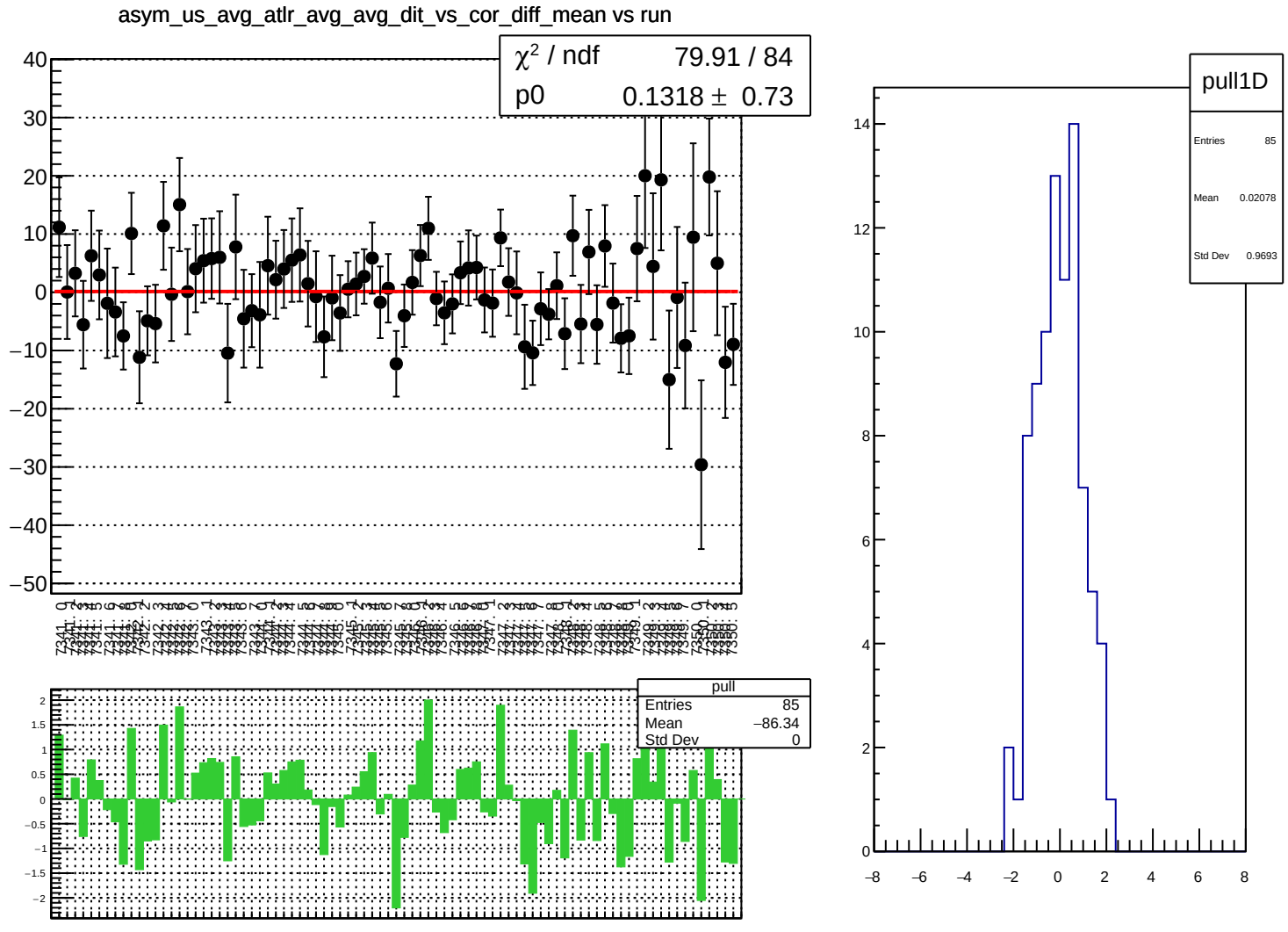

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 76.33 / 84
p0 1.05e+04 ± 1.044e+04
pull
Entries 85
Mean −135.1
Std Dev 0

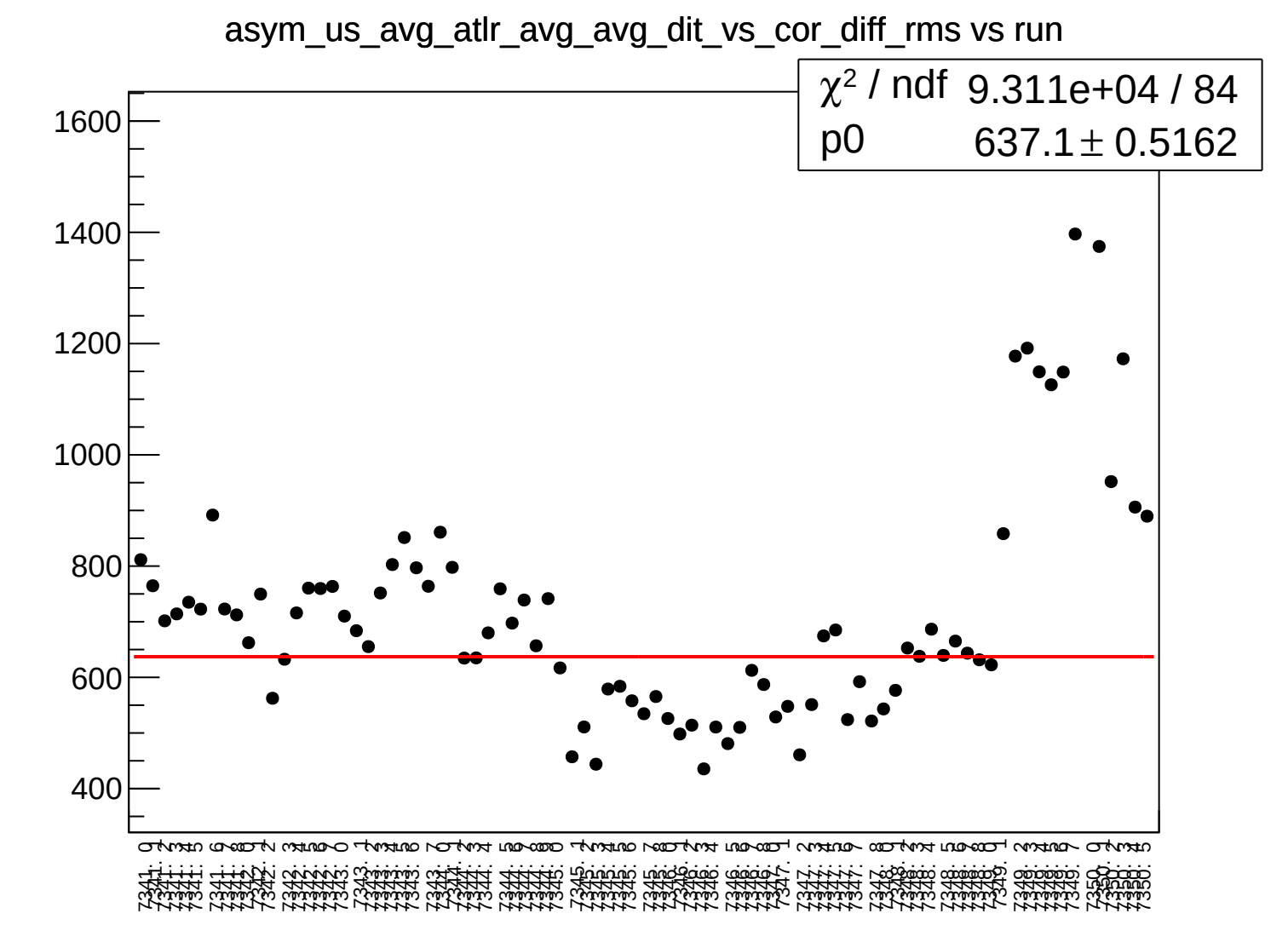

pull1D
Entries 85
Mean −0.02108
Std Dev 0.9474

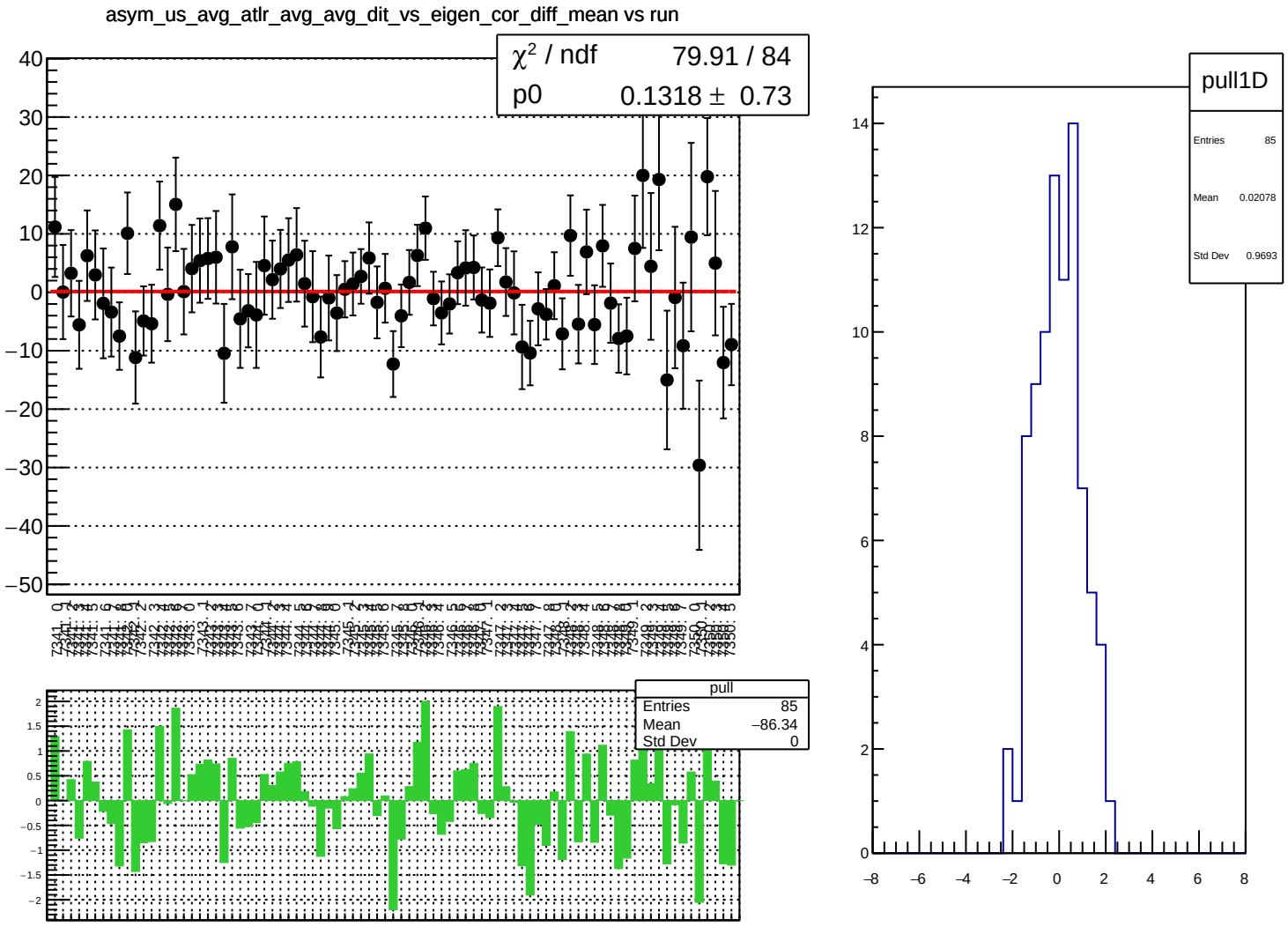

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 8100 / 84
p0 9361 ± 7.382
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500

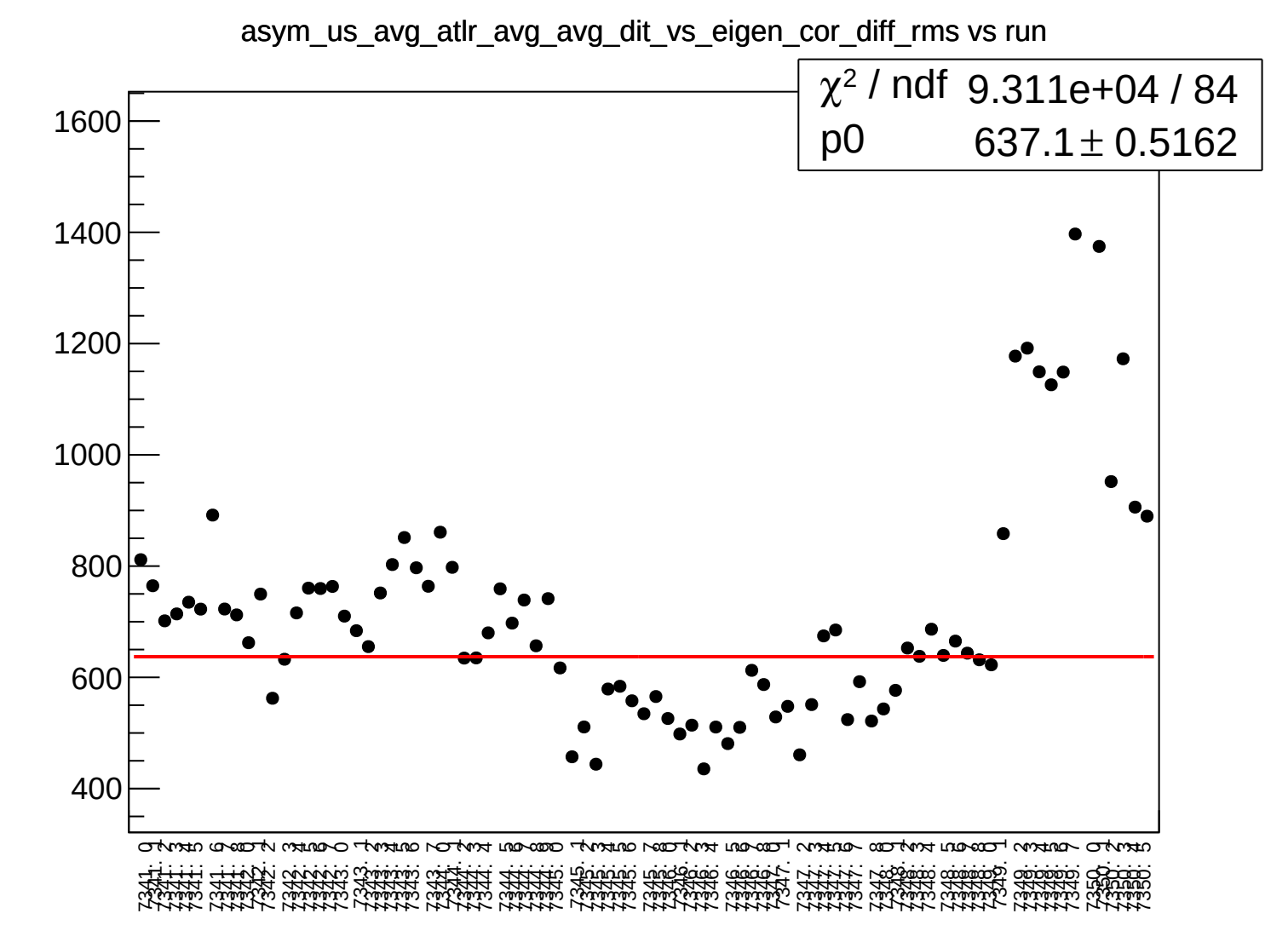

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.53 / 84
p0 −1.747e−13 ± 3.57e−13
pull
Entries 85
Mean −30.76
Std Dev 0
pull1D
Entries 85
Mean 0.08322
Std Dev 0.9452

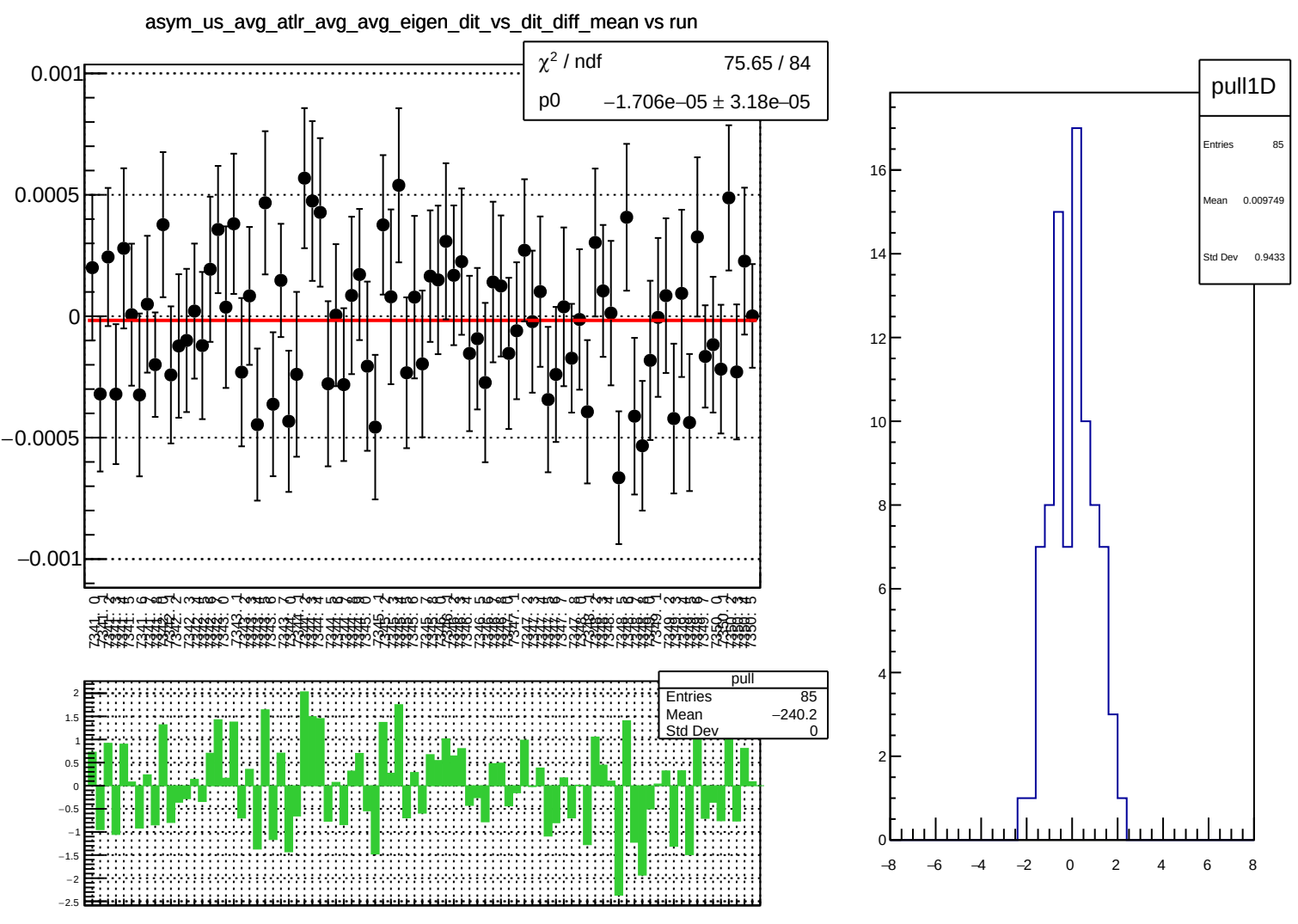

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.237e+06 / 84
p0 1.554e−10 ± 2.524e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

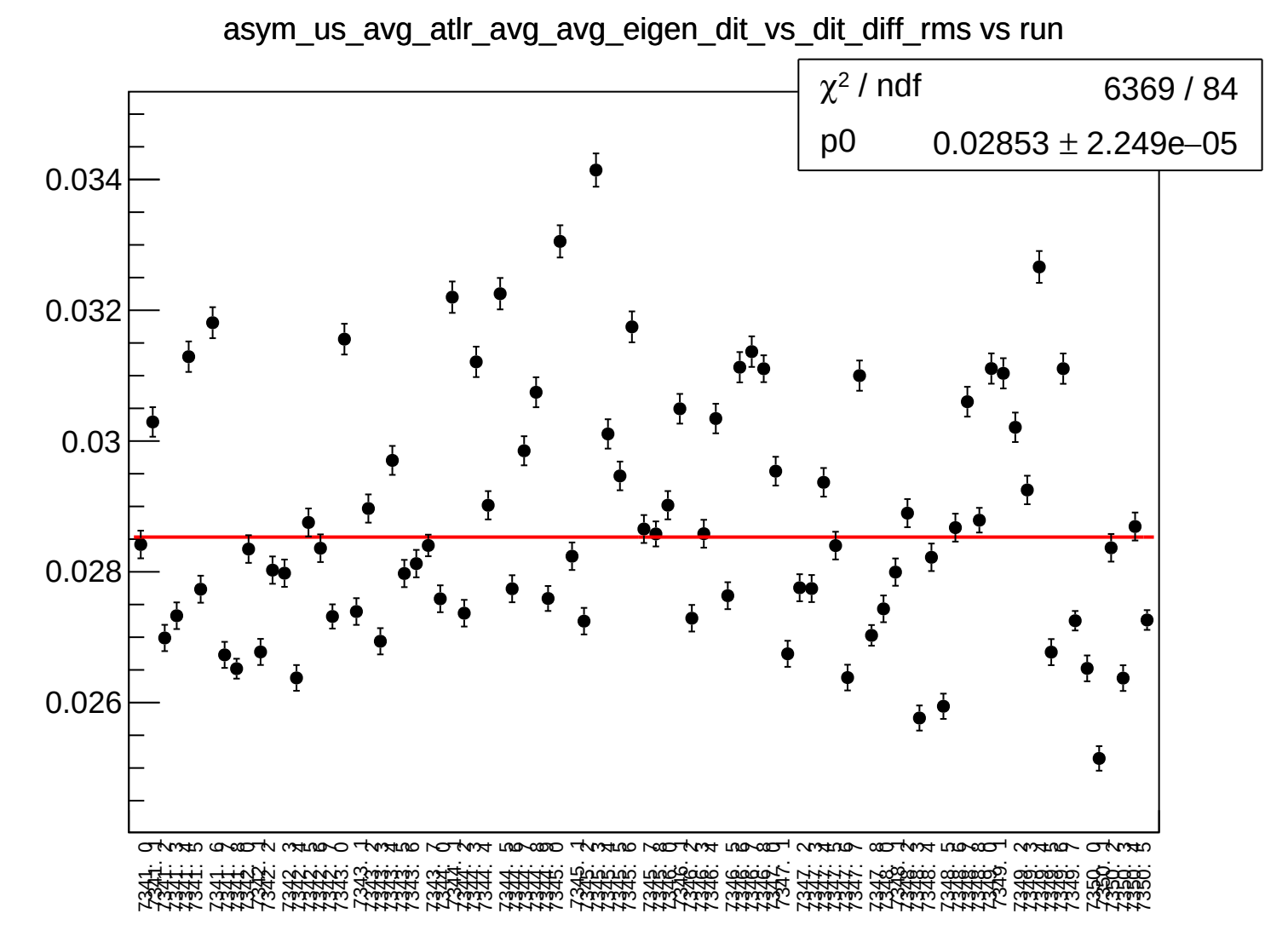

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.91 / 84
p0 0.1318 ± 0.73
pull
Entries 85
Mean −86.34
Std Dev 0
pull1D
Entries 85
Mean 0.02078
Std Dev 0.9693

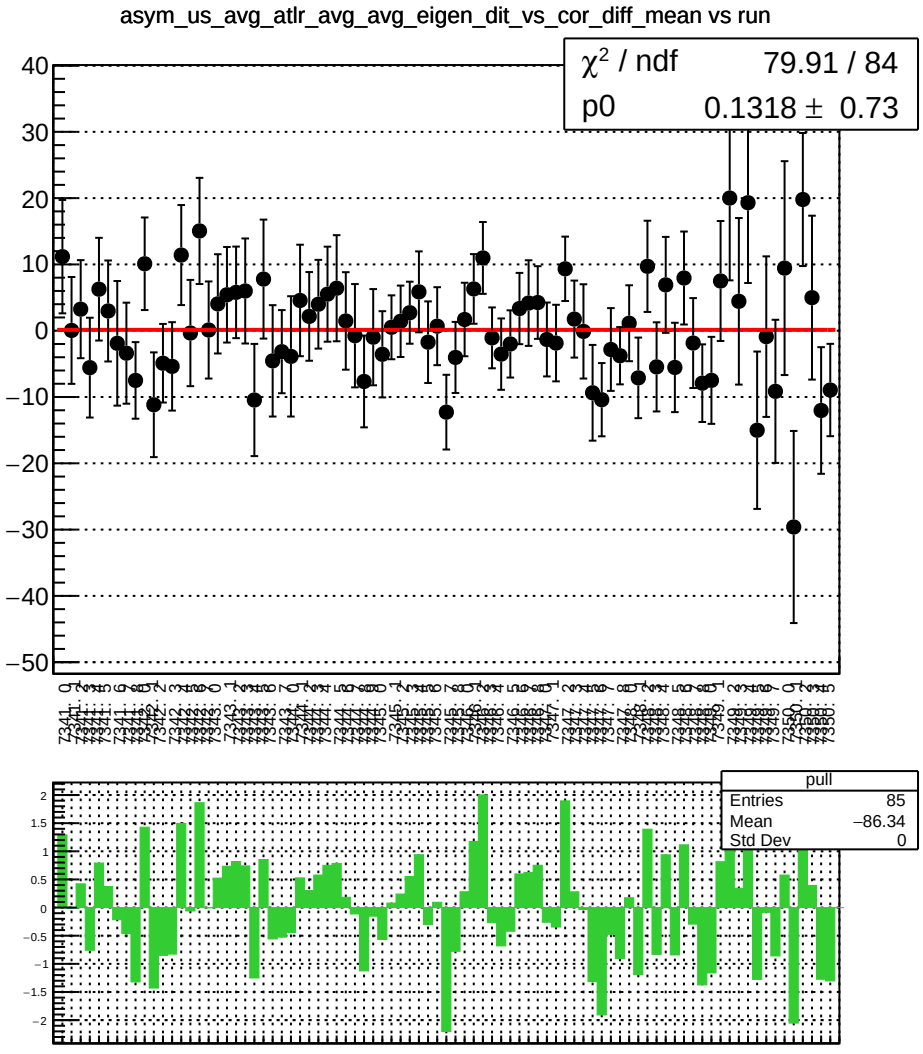

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.311e+04 / 84
p0 637.1 ± 0.5162
1600
1400
1200
1000
800
600
400

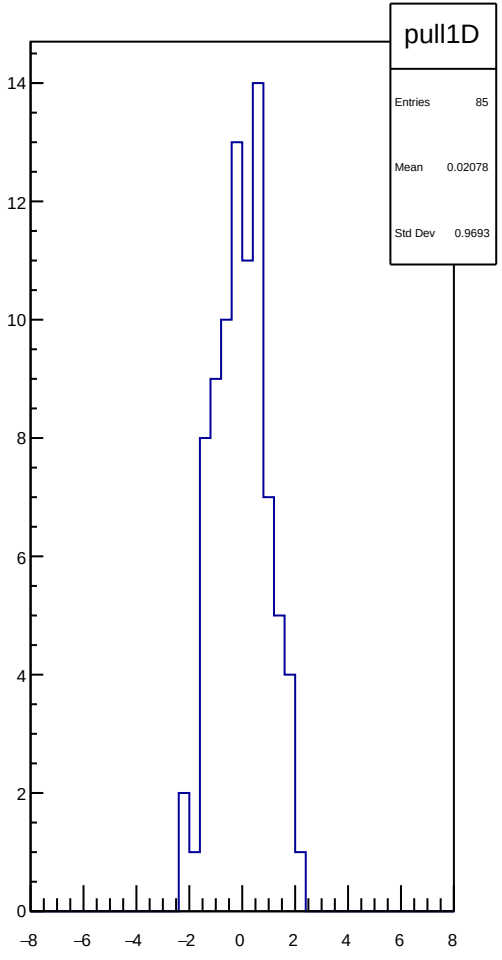

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.91 / 84
p0 0.1318 ± 0.73
pull
Entries 85
Mean −86.34
Std Dev 0
pull1D
Entries 85
Mean 0.02078
Std Dev 0.9693

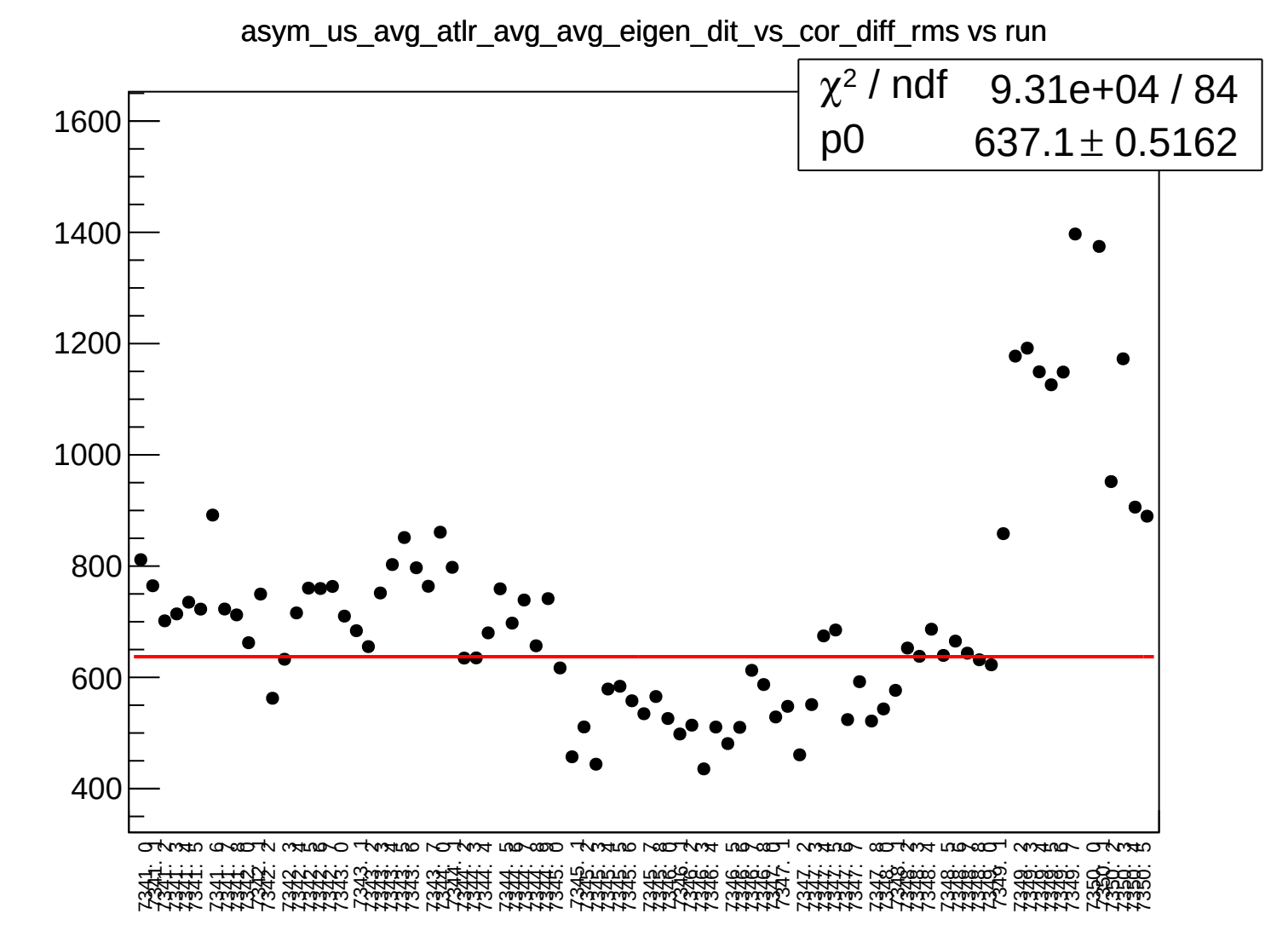

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.311e+04 / 84
p0 637.1 ± 0.5162
1600
1400
1200
1000
800
600
400

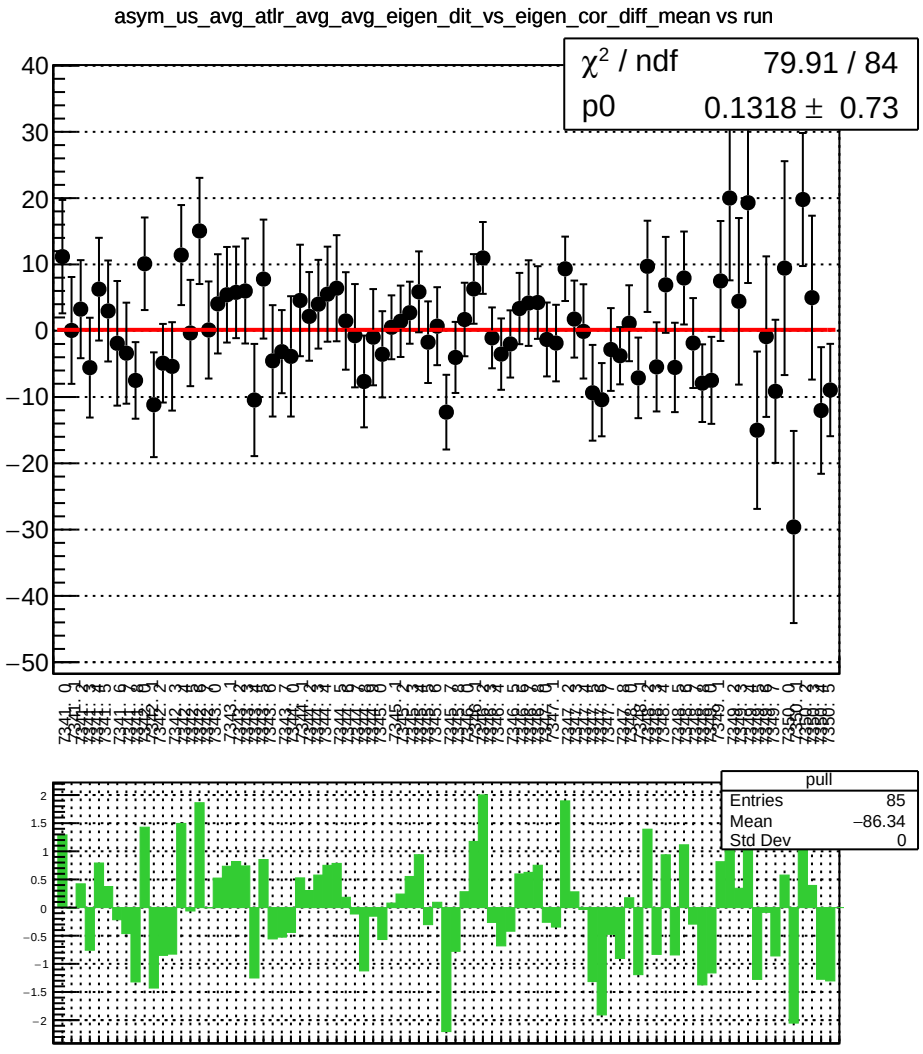

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.65 / 84
p0 −1.706e−05 ± 3.18e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean −240.2
Std Dev 0
pull1D
Entries 85
Mean 0.009749
Std Dev 0.9433

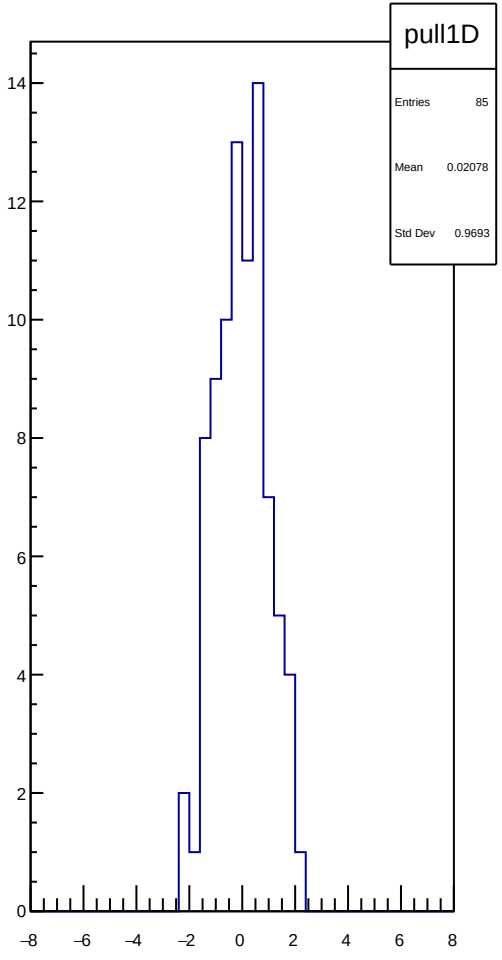

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6369 / 84
p0 0.02853 ± 2.249e−05
0.034
0.032
0.03
0.028
0.026

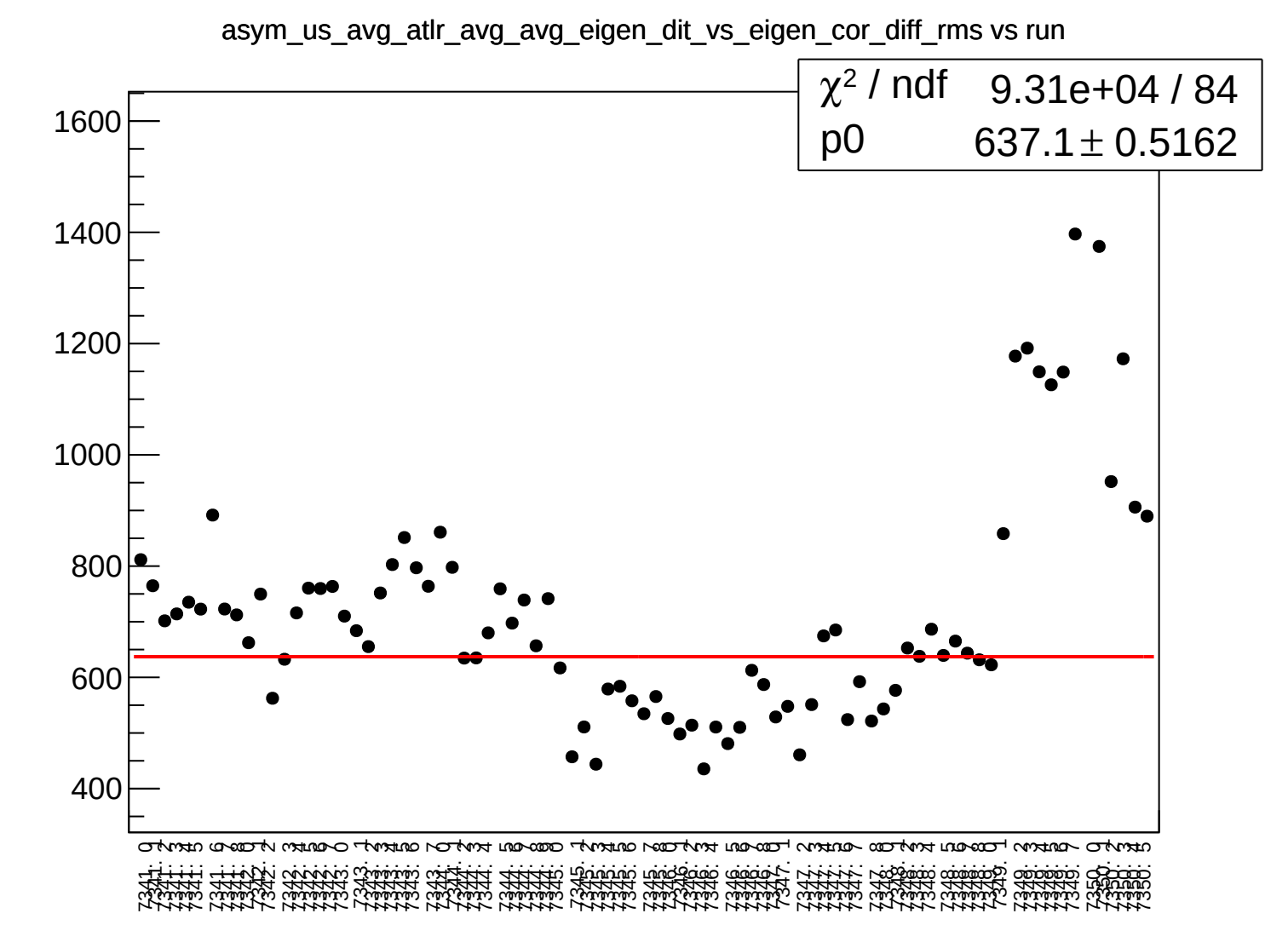

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.91 / 84
p0 0.1318 ± 0.73
pull
Entries 85
Mean −86.34
Std Dev 0

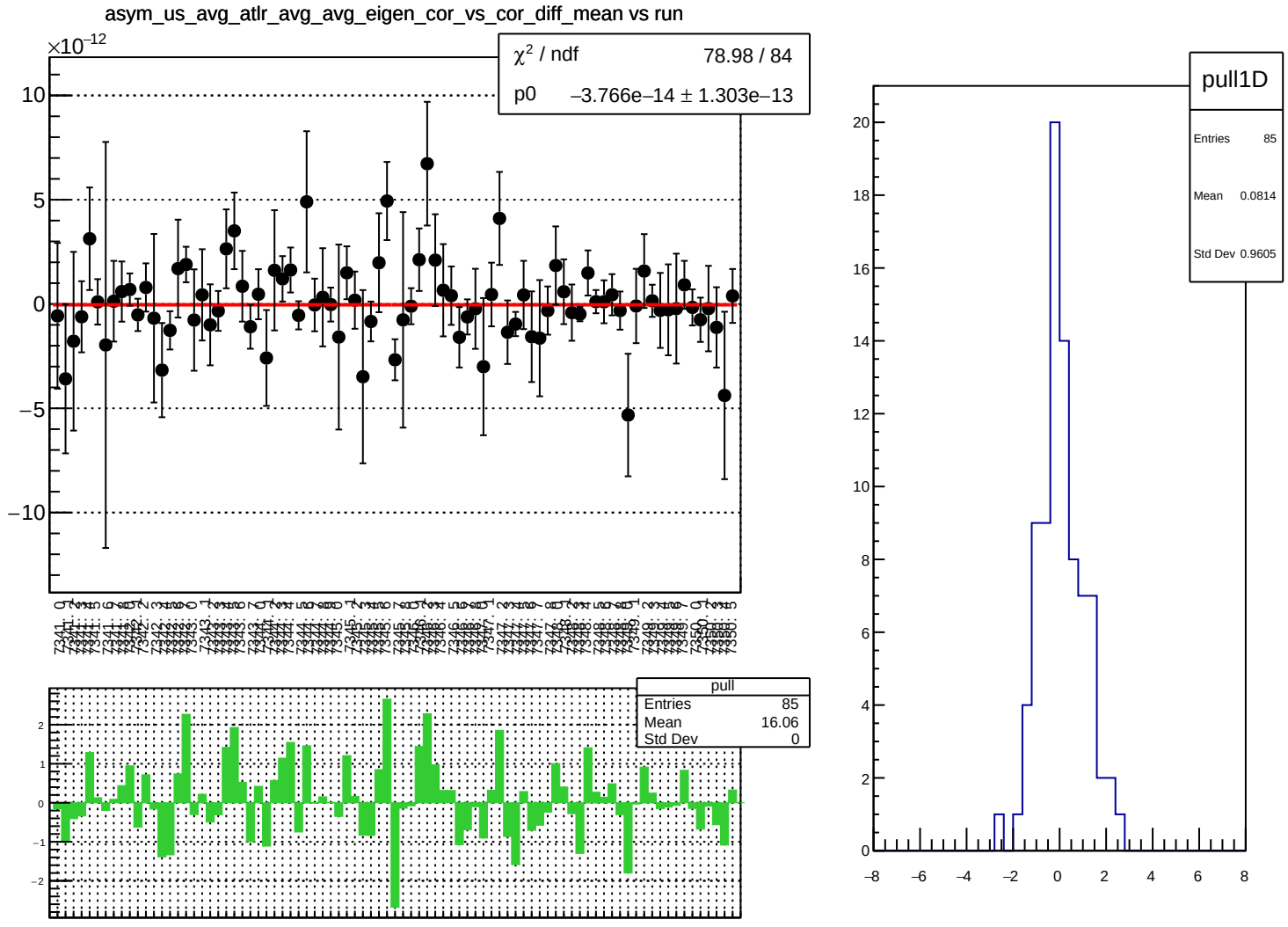

pull1D
Entries 85
Mean 0.02078
Std Dev 0.9693

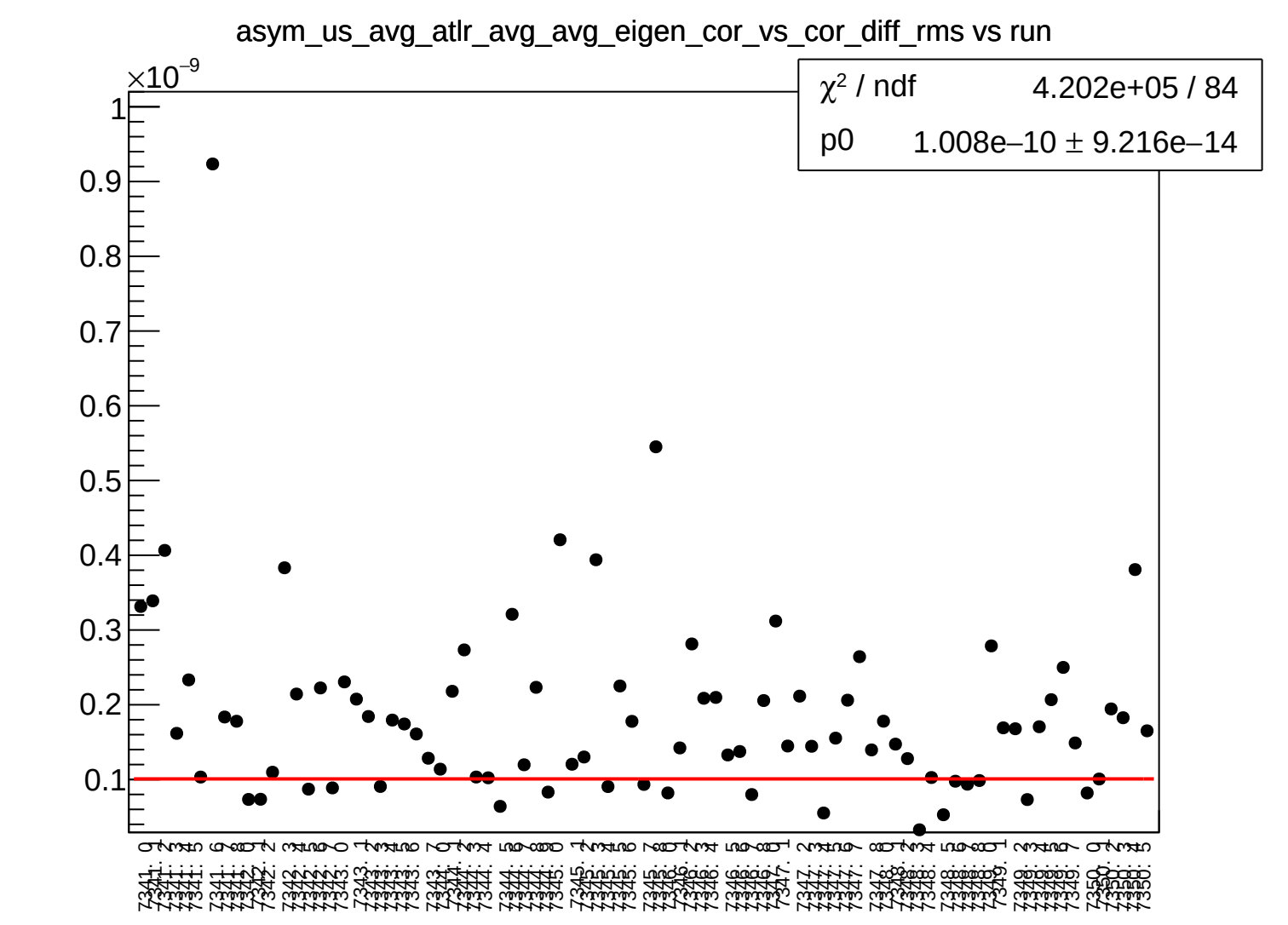

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.31e+04 / 84
p0 637.1 ± 0.5162
1600
1400
1200
1000
800
600
400

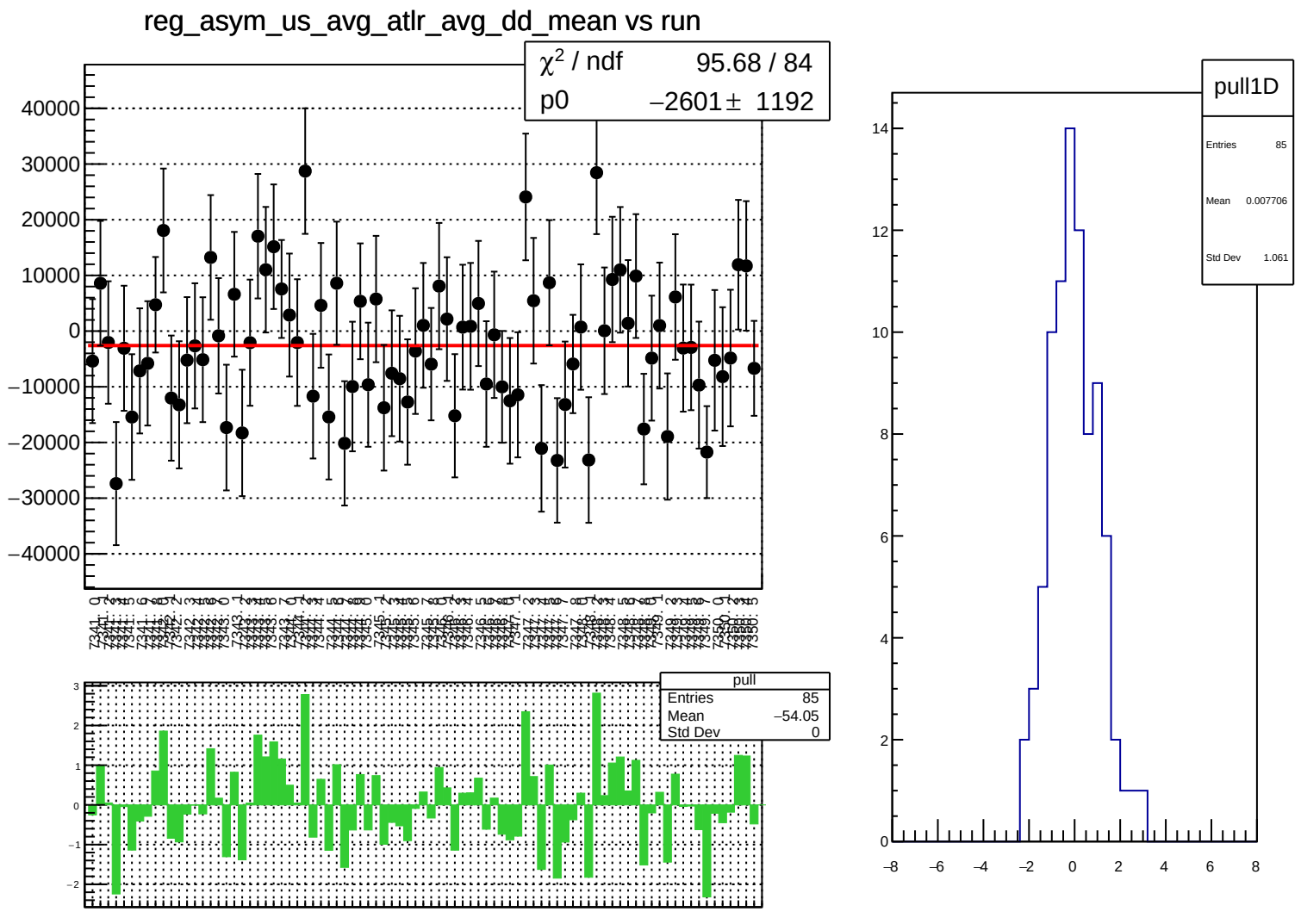

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.91 / 84
p0 0.1318 ± 0.73
pull
Entries 85
Mean −86.34
Std Dev 0

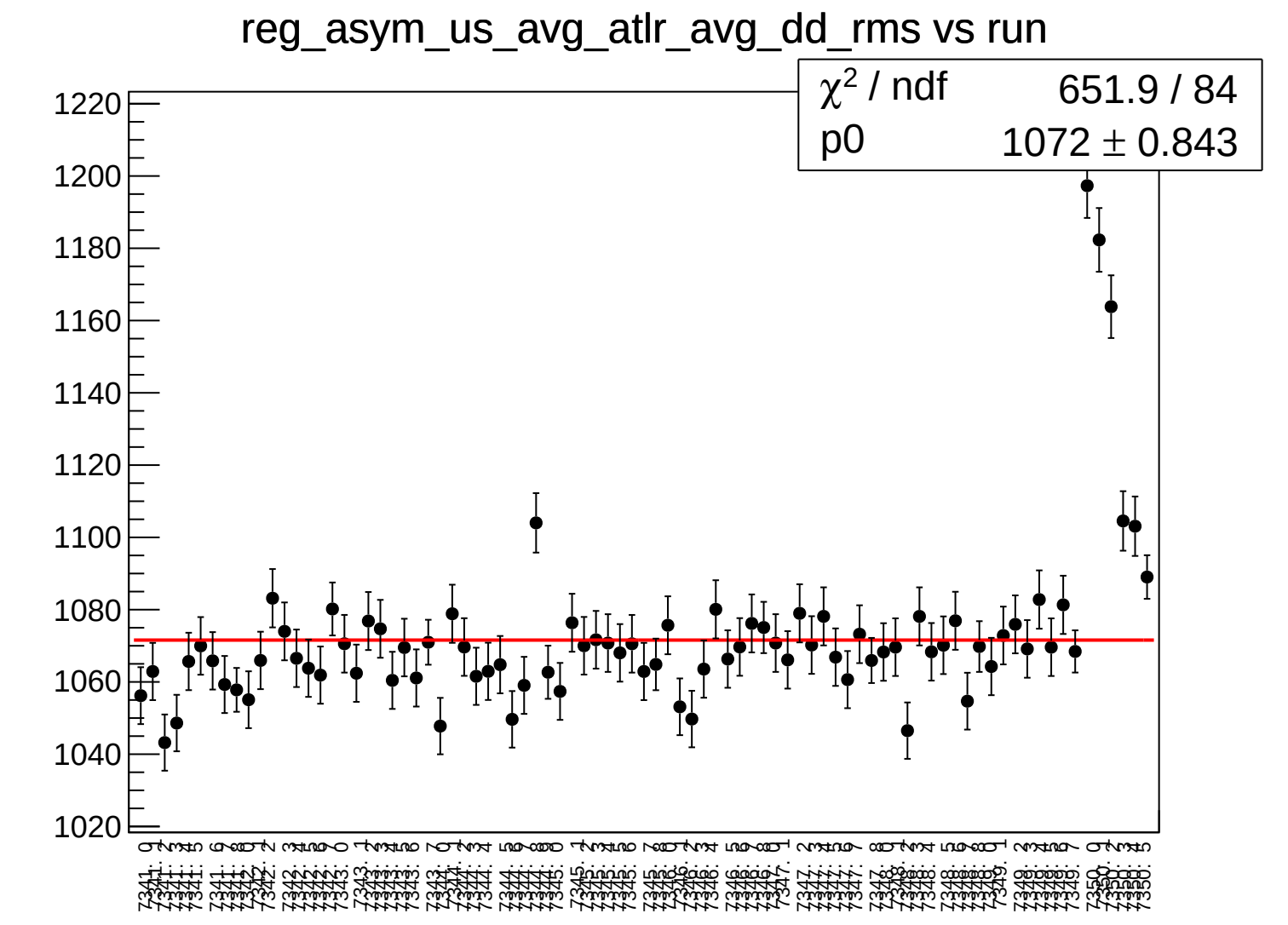

pull1D
Entries 85
Mean 0.02078
Std Dev 0.9693

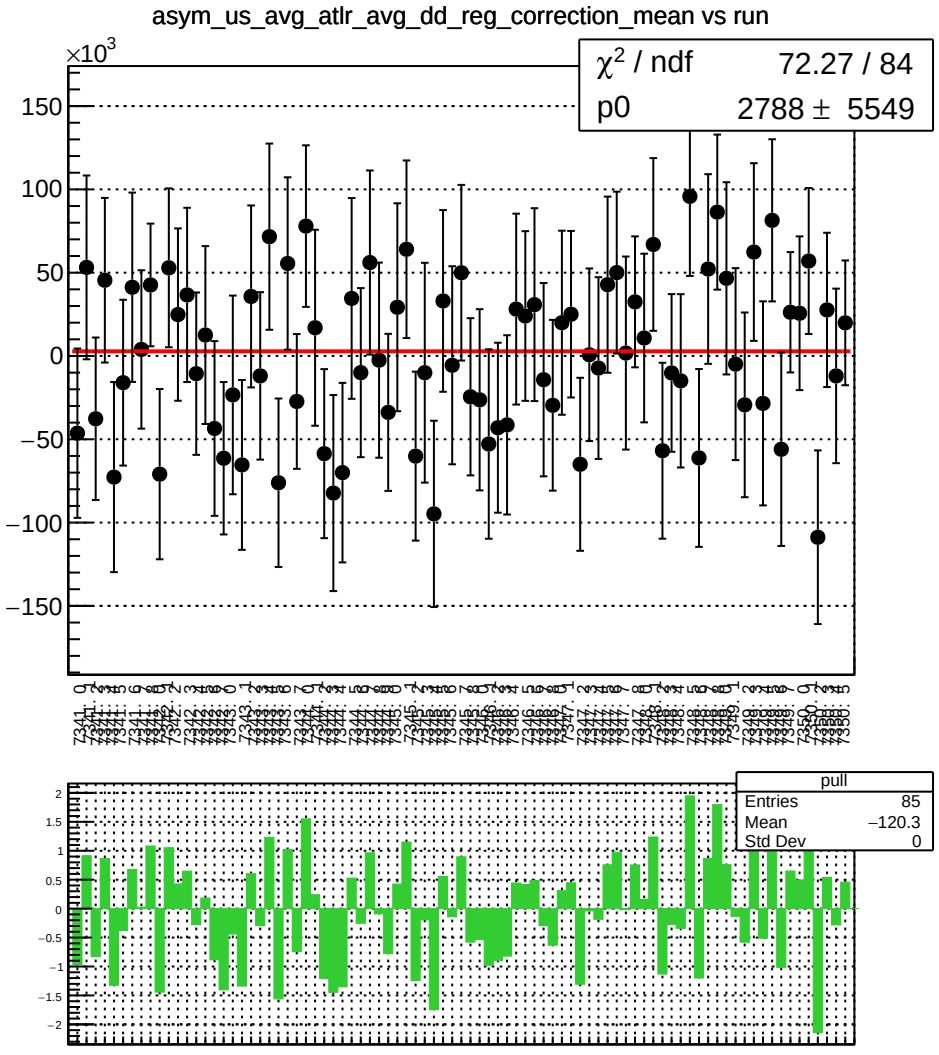

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.31e+04 / 84
p0 637.1 ± 0.5162
1600
1400
1200
1000
800
600
400

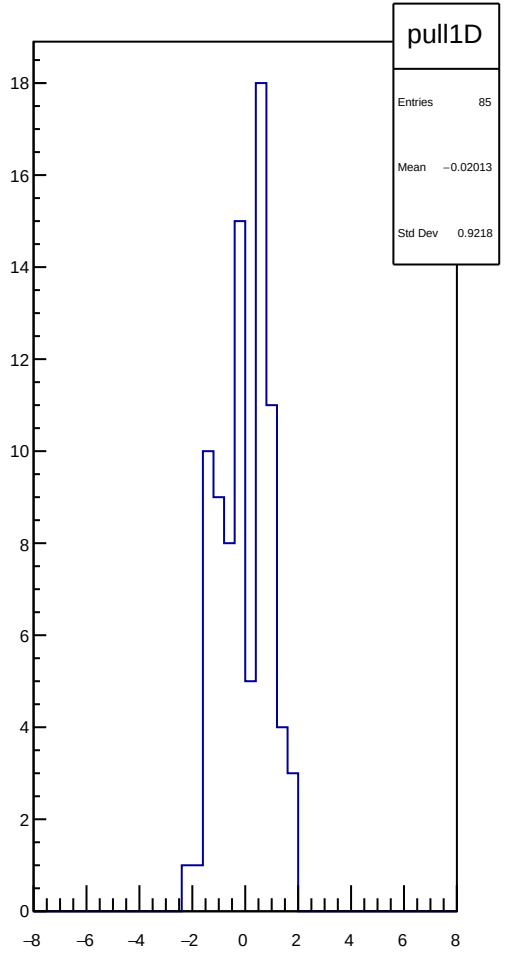

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.98 / 84
p0 −3.766e−14 ± 1.303e−13
pull
Entries 85
Mean 16.06
Std Dev 0
pull1D
Entries 85
Mean 0.0814
Std Dev 0.9605

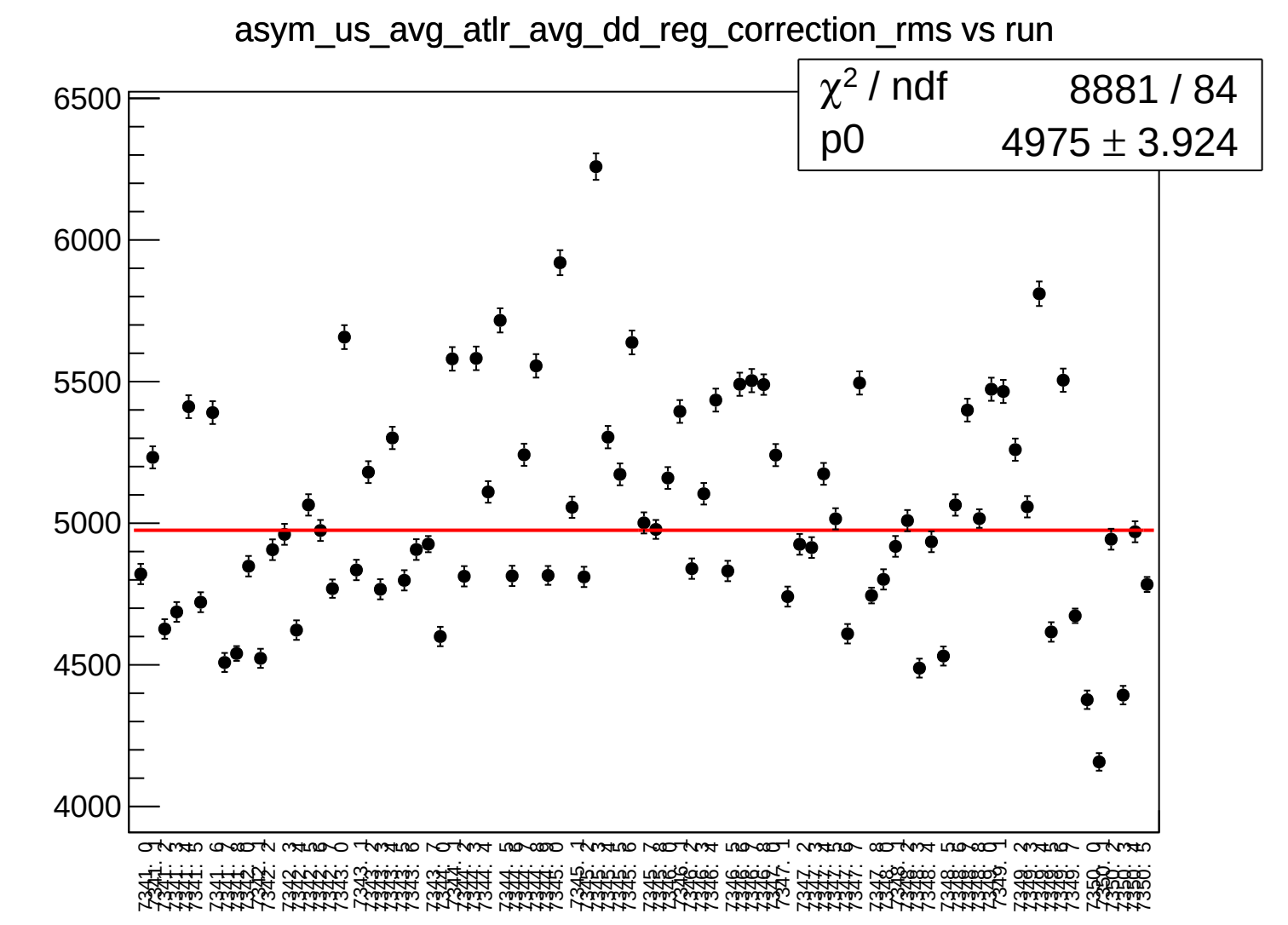

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.202e+05 / 84
p0 1.008e−10 ± 9.216e−14
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

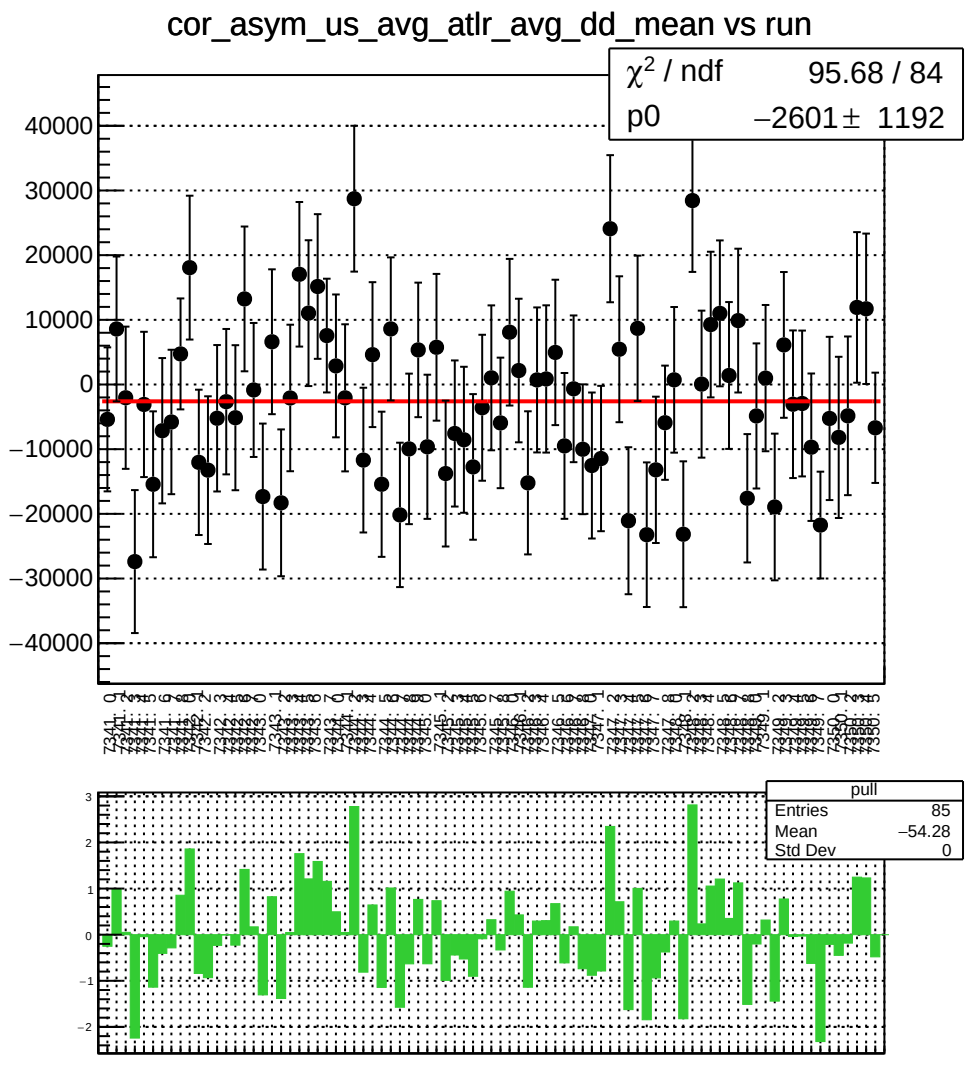

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 95.68 / 84
p0 −2601 ± 1192
pull
Entries 85
Mean −54.05
Std Dev 0
pull1D
Entries 85
Mean 0.007706
Std Dev 1.061

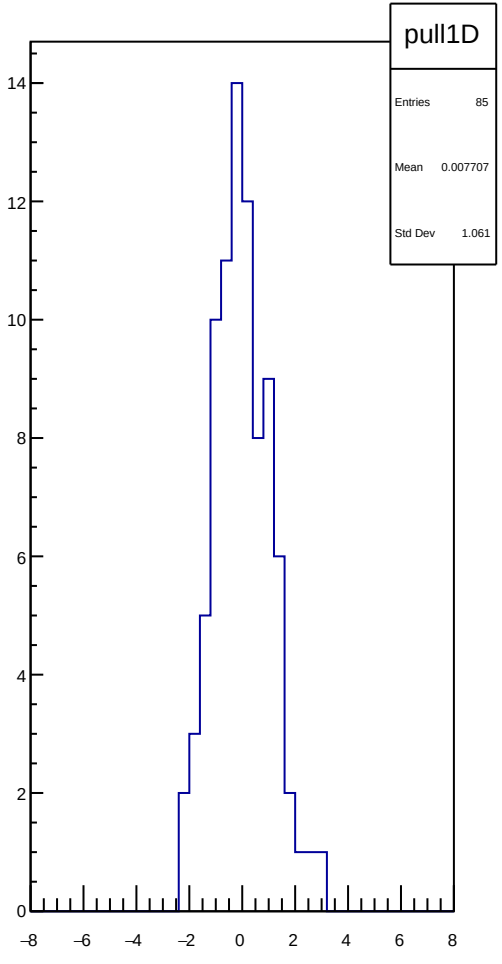

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 651.9 / 84
p0 1072 ± 0.843
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

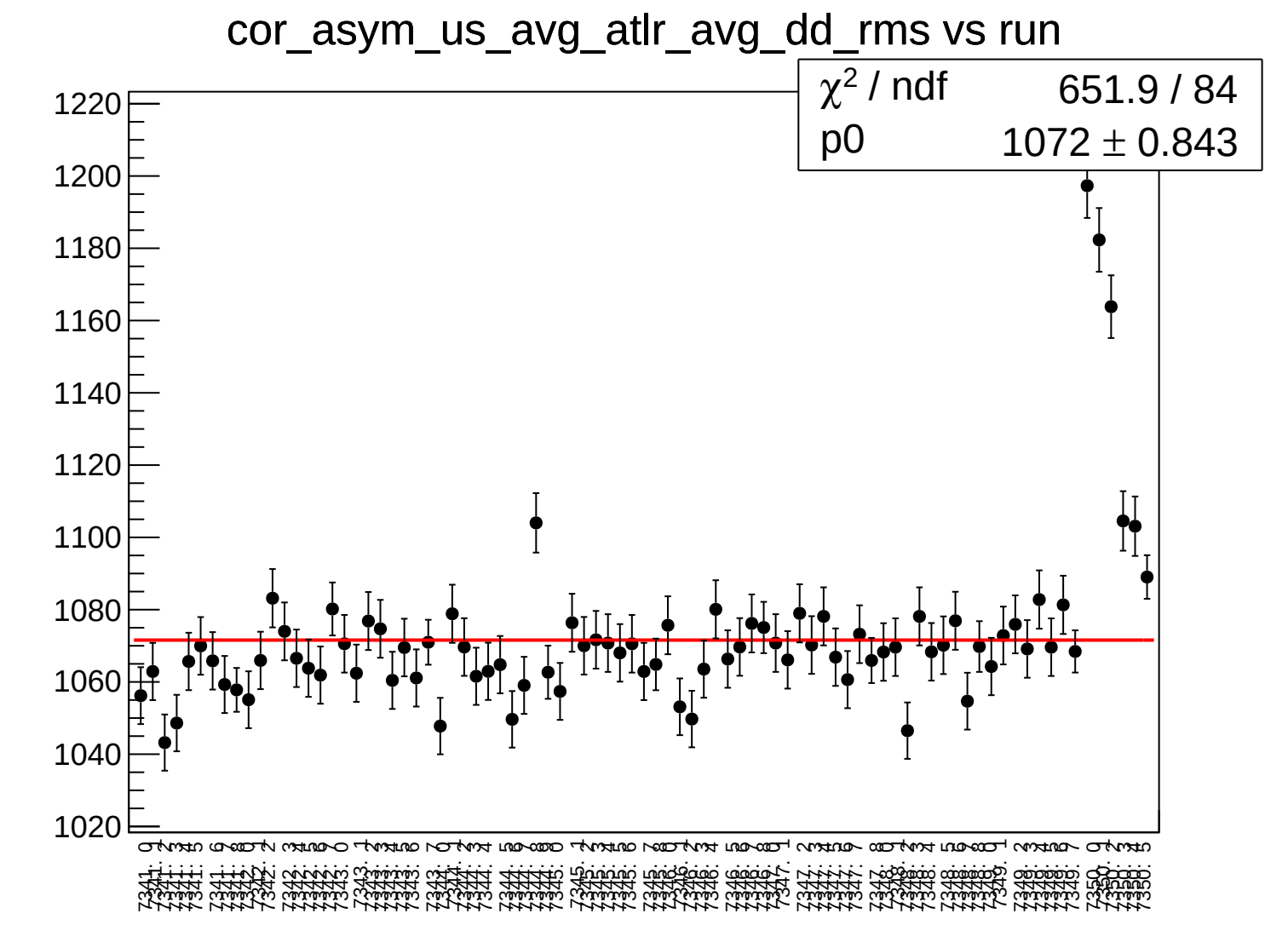

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 72.27 / 84
p0 2788 ± 5549
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean −120.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

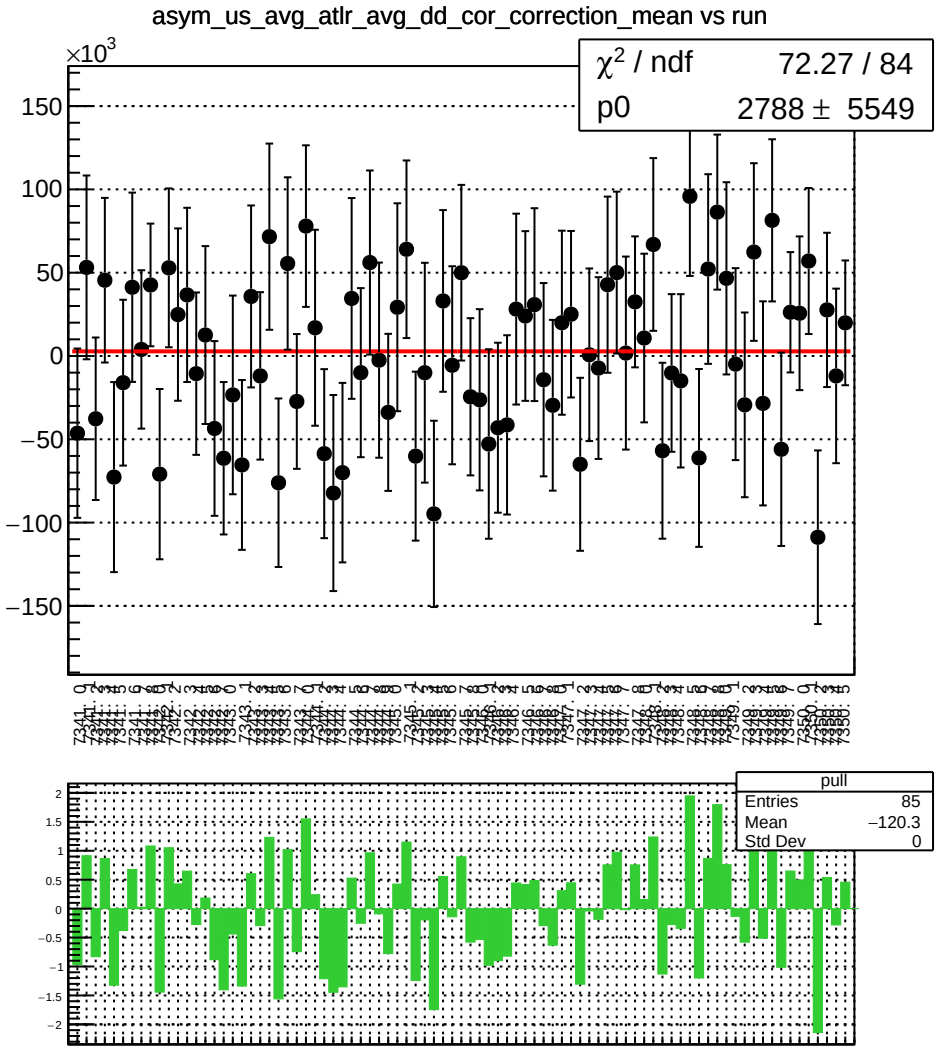

pull1D
Entries 85
Mean −0.02013
Std Dev 0.9218
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

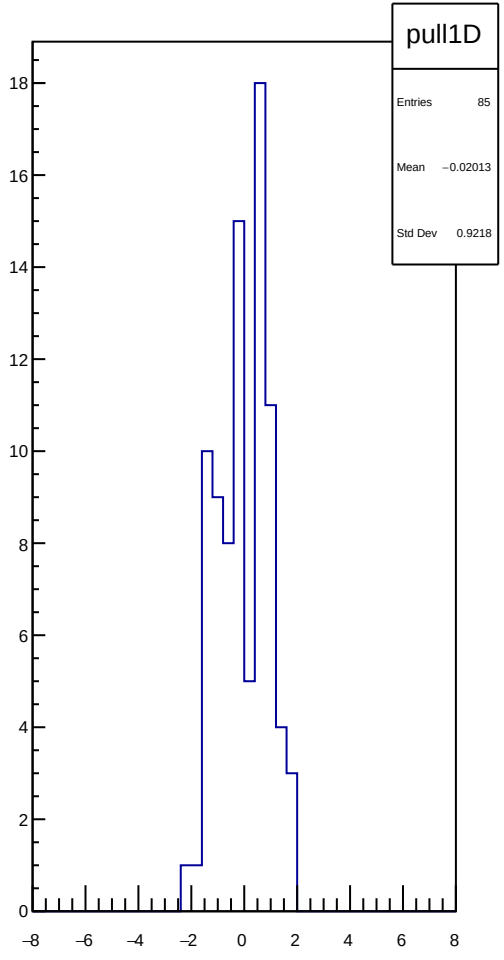

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 8881 / 84
p0 4975 ± 3.924
6500
6000
5500
5000
4500
4000

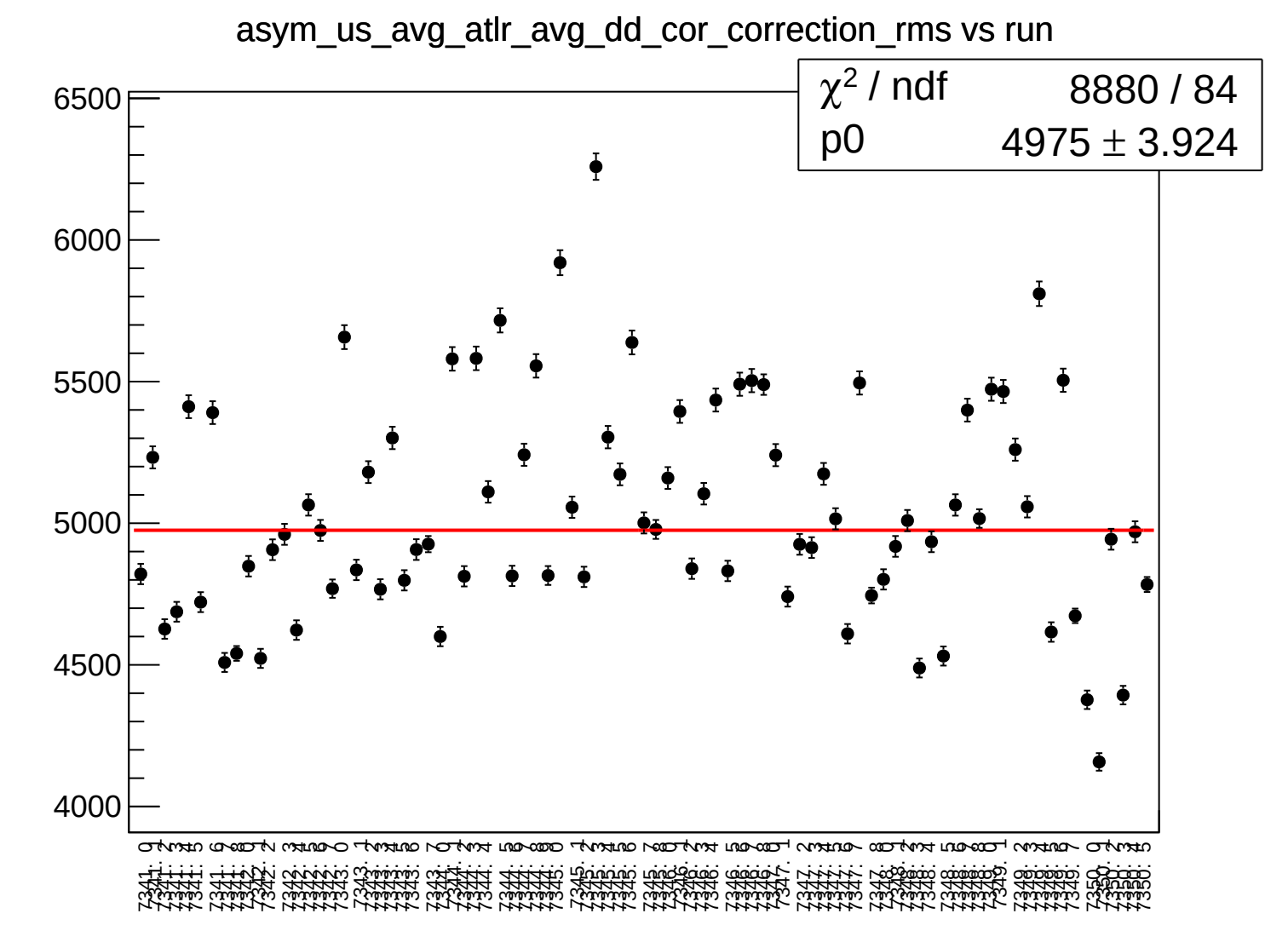

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 95.68 / 84
p0 −2601 ± 1192
pull
Entries 85
Mean −54.28
Std Dev 0

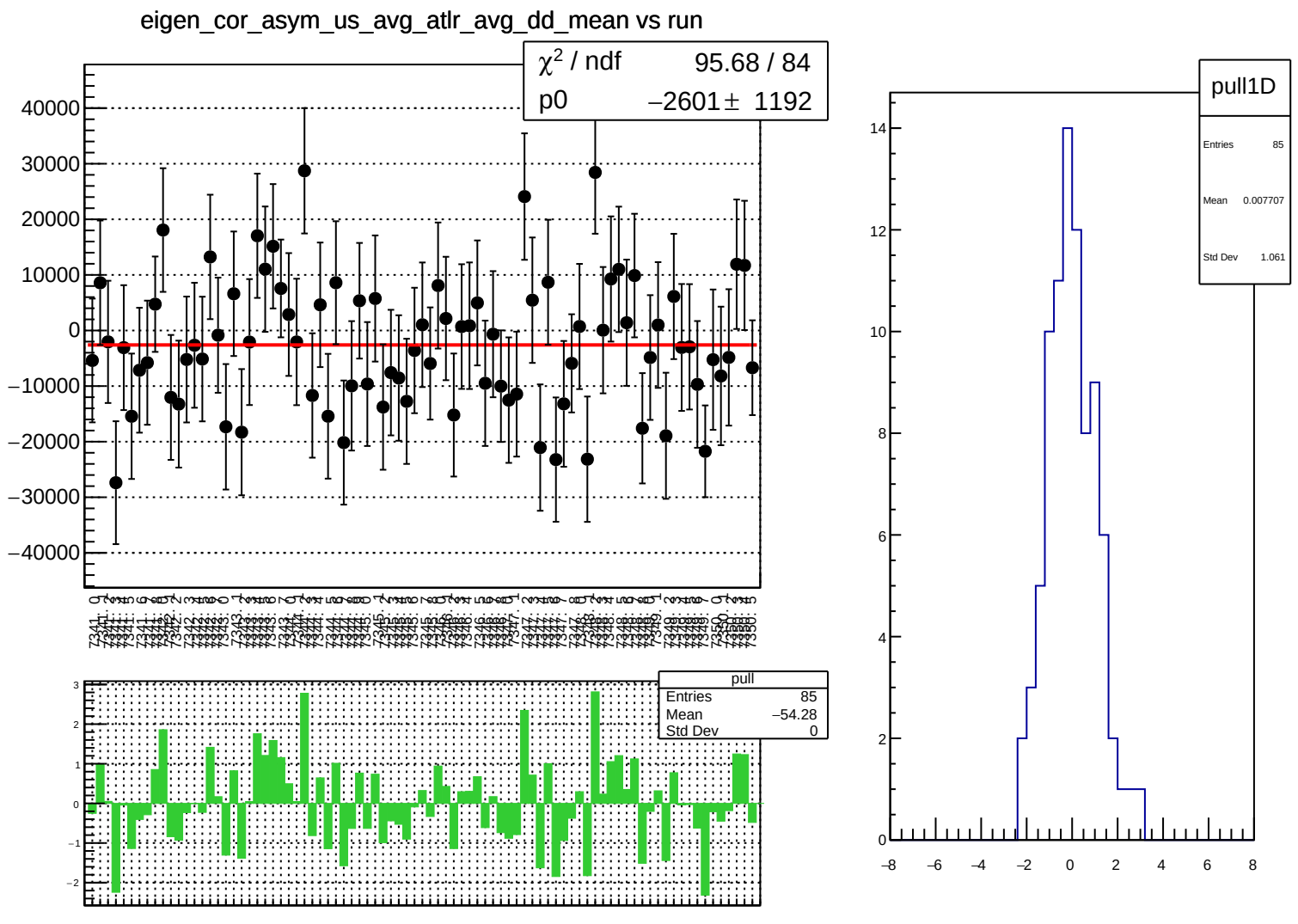

pull1D
Entries 85
Mean 0.007707
Std Dev 1.061

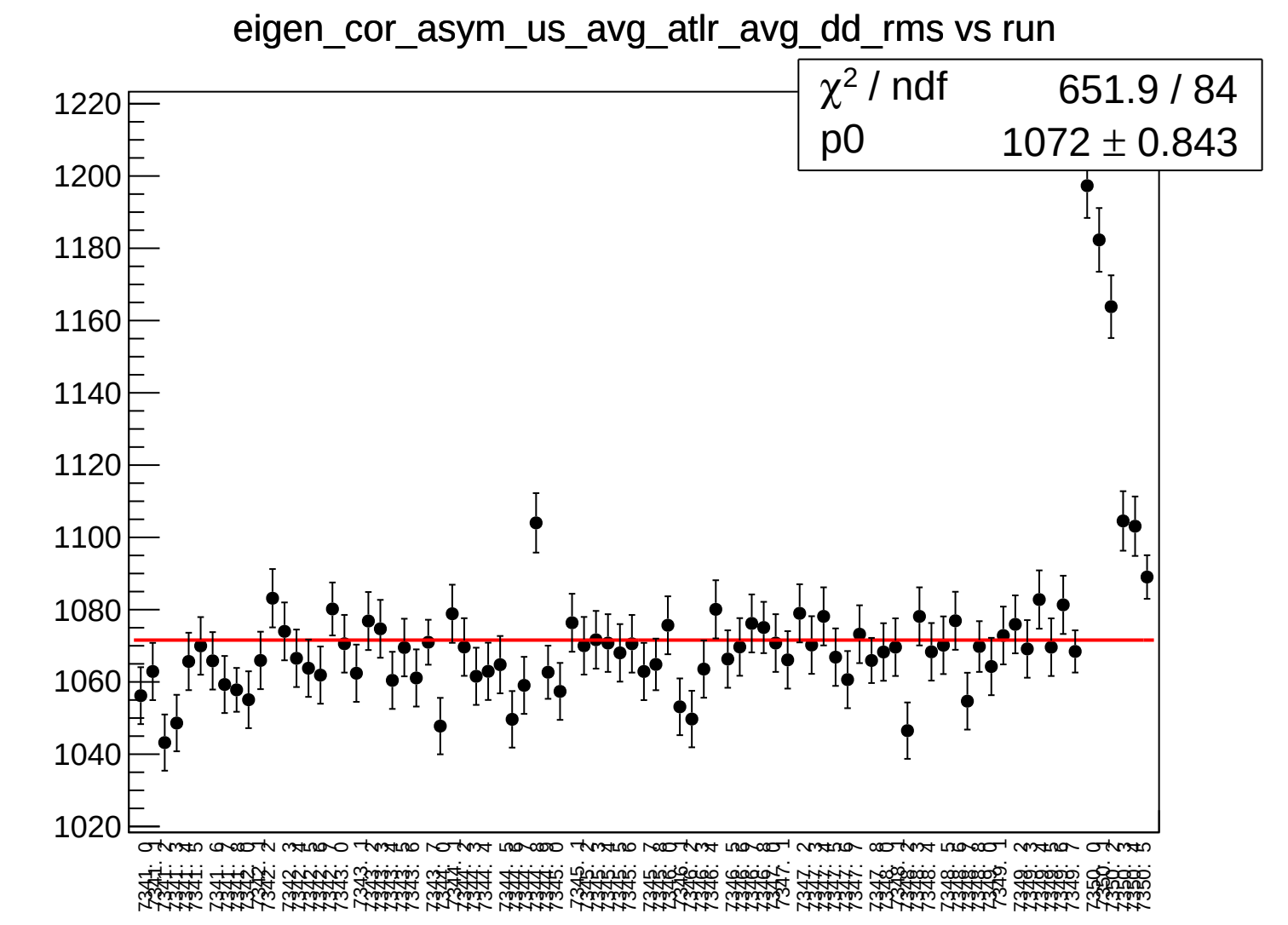

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 651.9 / 84
p0 1072 ± 0.843
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

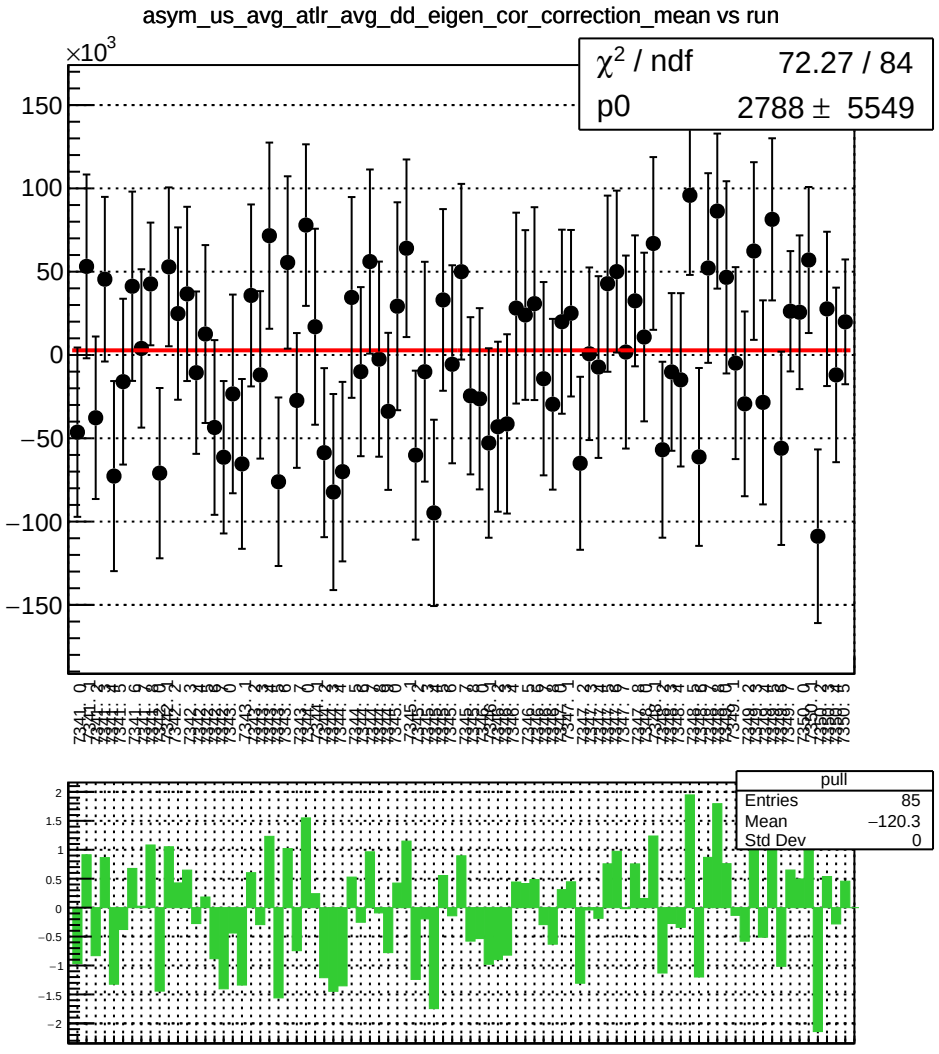

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
χ² / ndf 72.27 / 84
p0 2788 ± 5549
×10³
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean −120.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

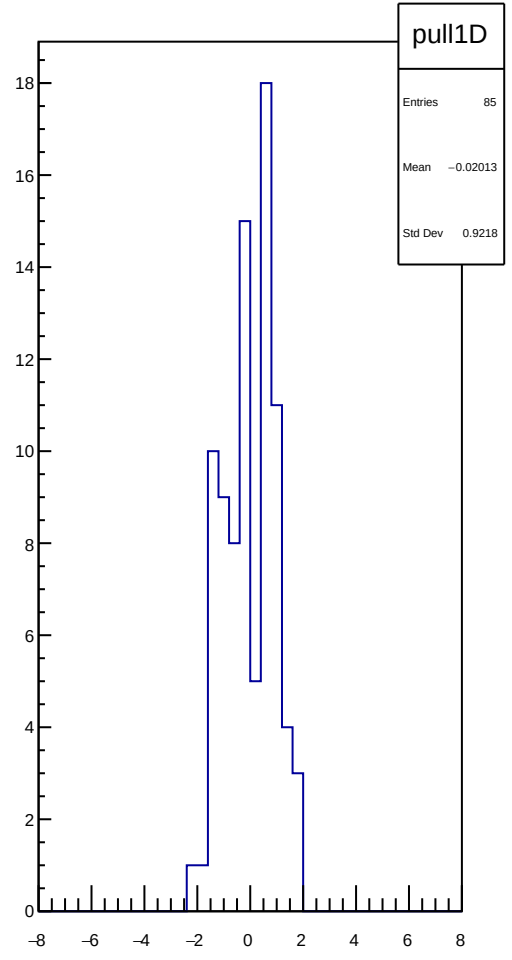

pull1D
Entries 85
Mean −0.02013
Std Dev 0.9218
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

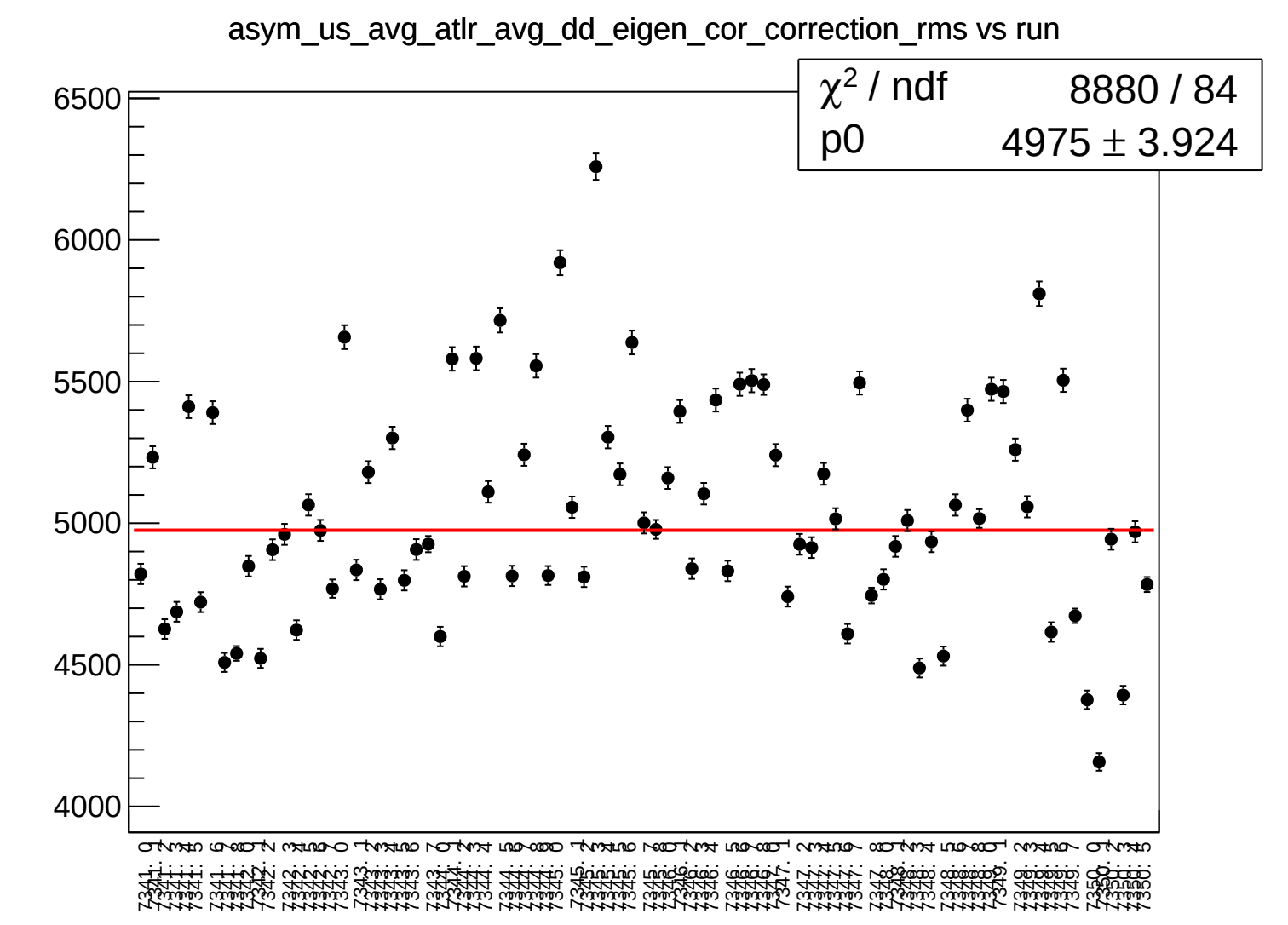

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 8880 / 84
p0 4975 ± 3.924
6500
6000
5500
5000
4500
4000

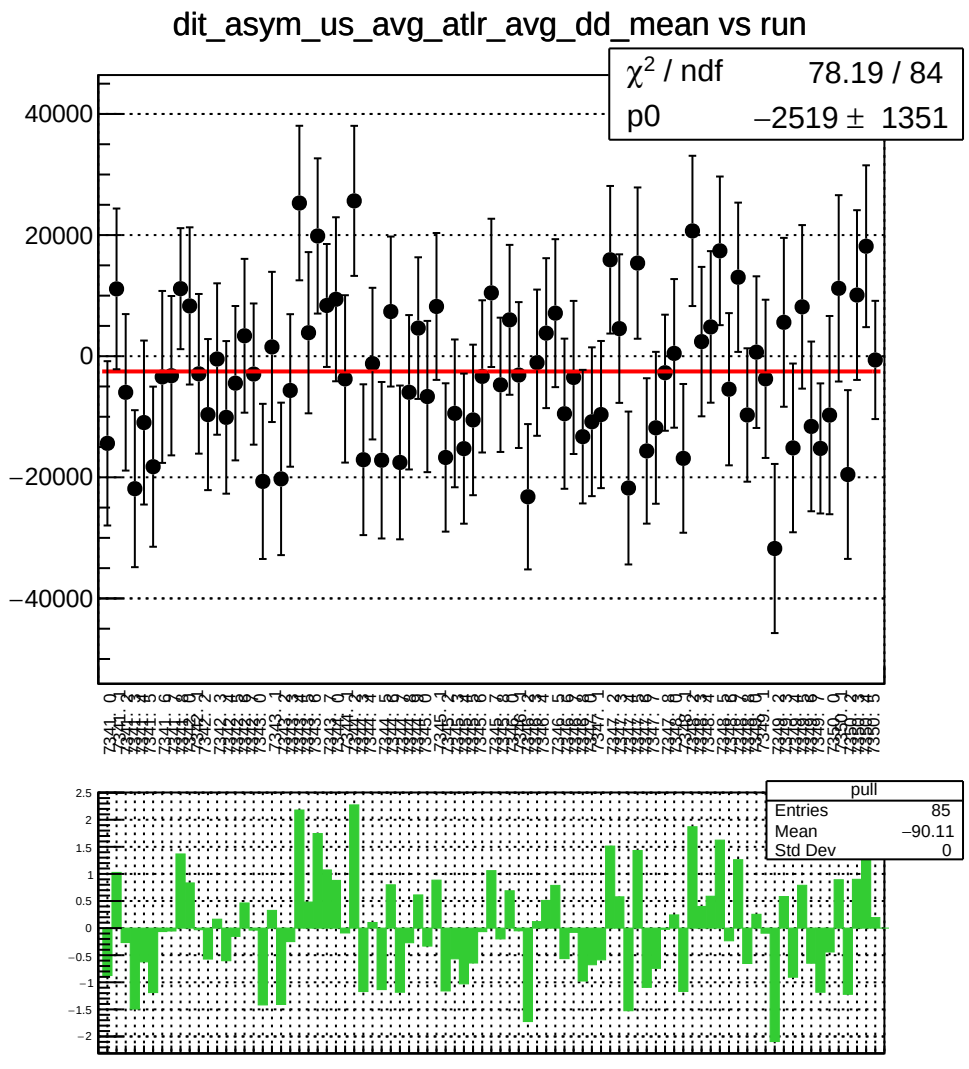

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 95.68 / 84
p0 −2601 ± 1192
pull
Entries 85
Mean −54.28
Std Dev 0
pull1D
Entries 85
Mean 0.007707
Std Dev 1.061

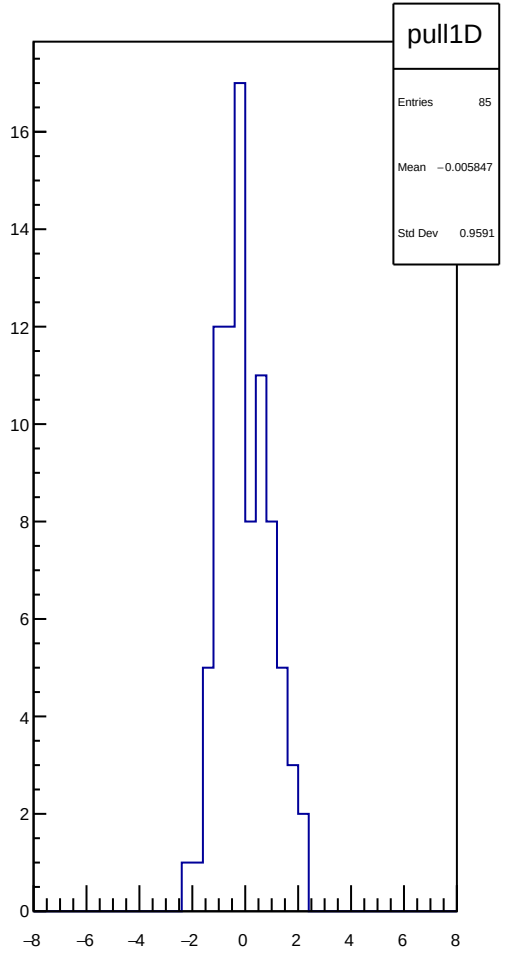

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 651.9 / 84
p0 1072 ± 0.843
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

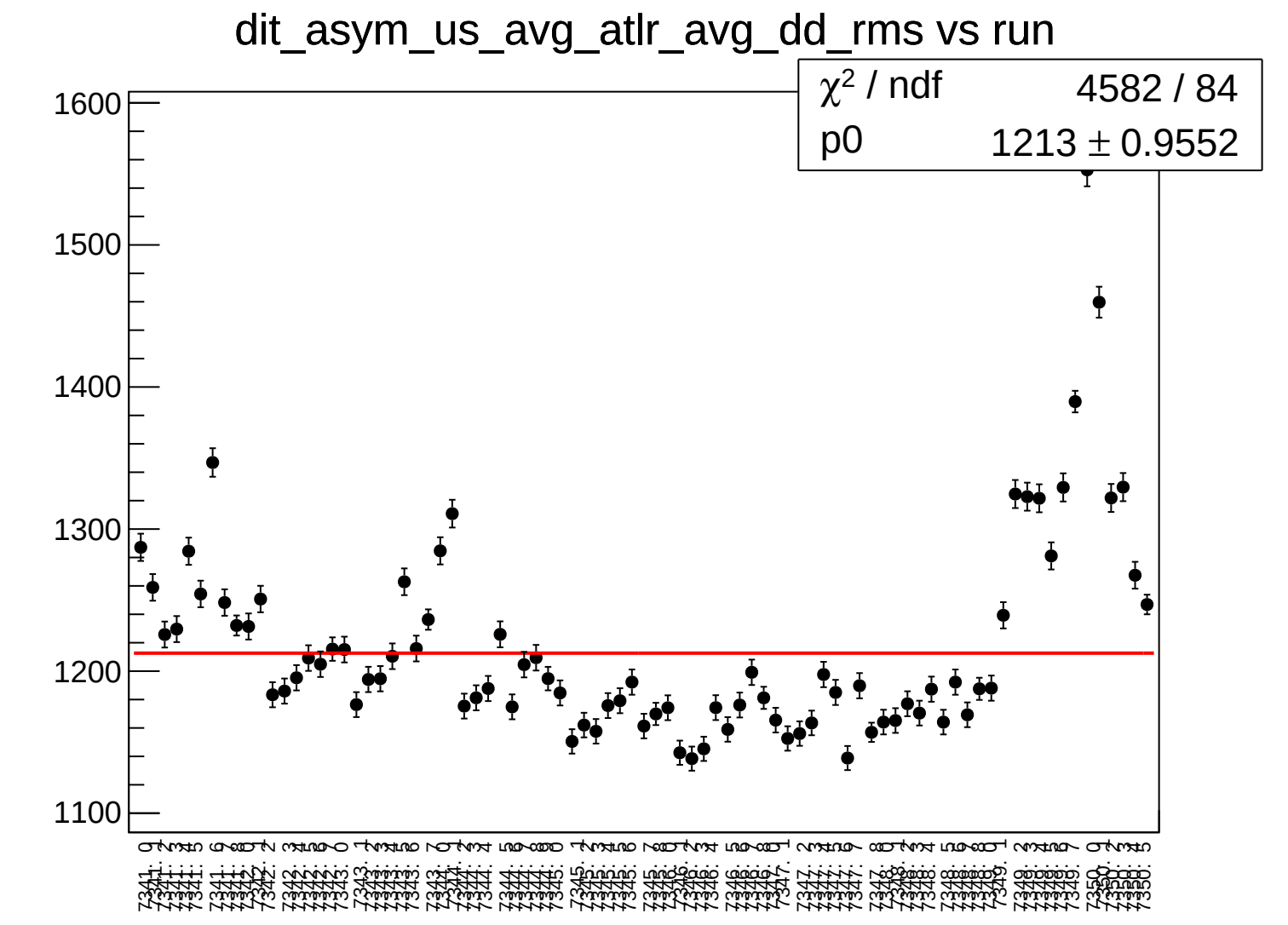

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.27 / 84
p0 2788 ± 5549
pull
Entries 85
Mean −120.3
Std Dev 0

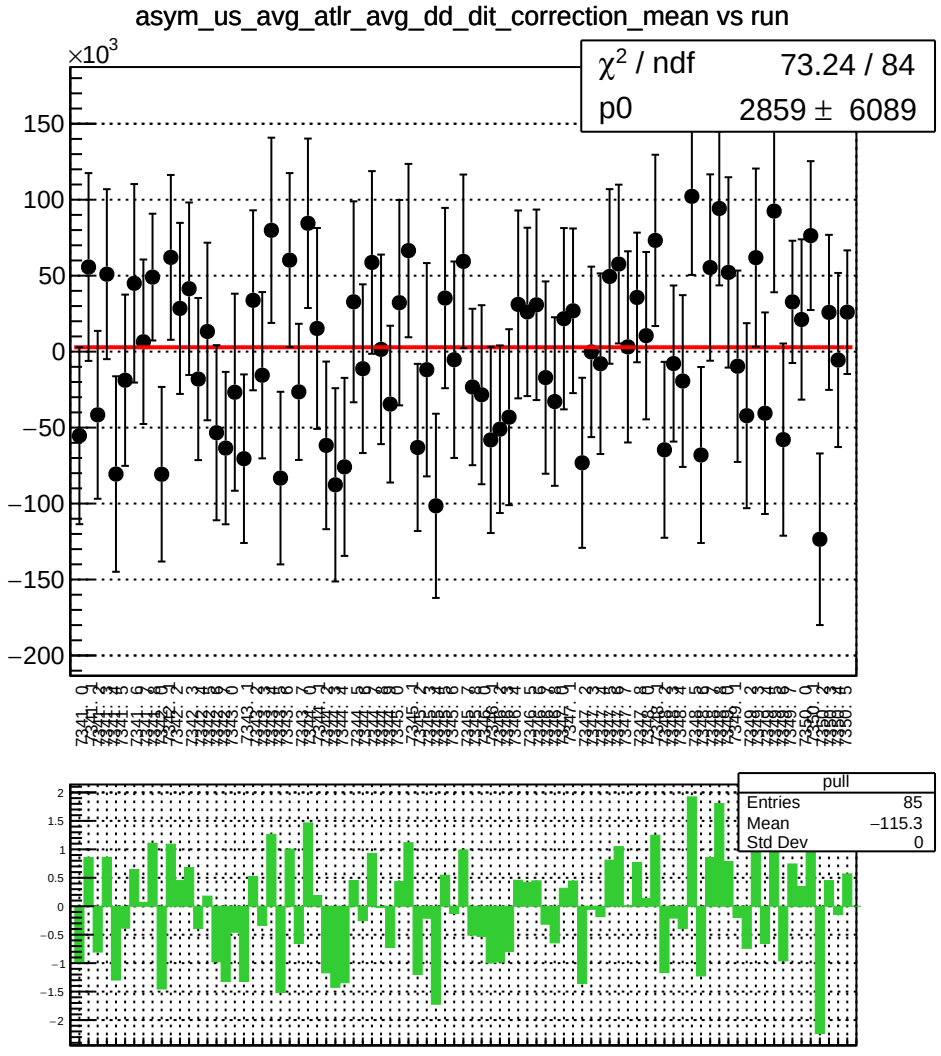

pull1D
Entries 85
Mean −0.02013
Std Dev 0.9218

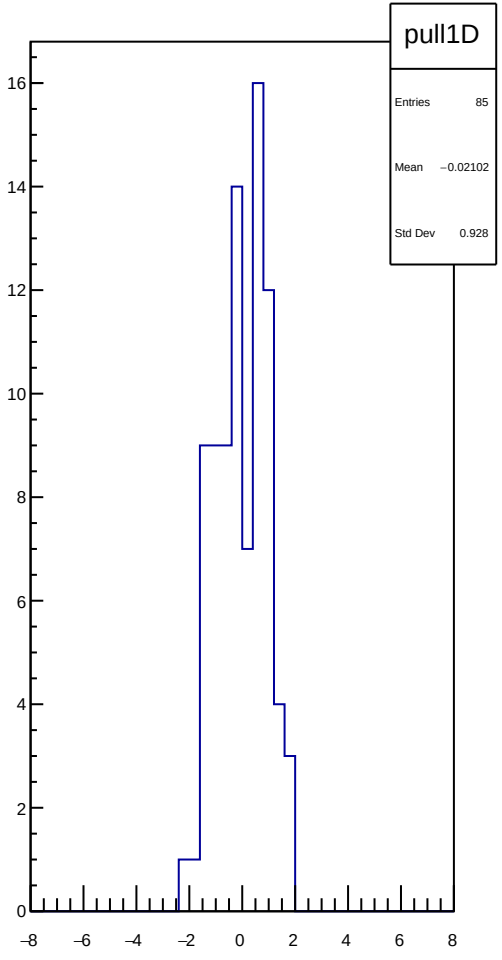

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8880 / 84
p0 4975 ± 3.924
6500
6000
5500
5000
4500
4000

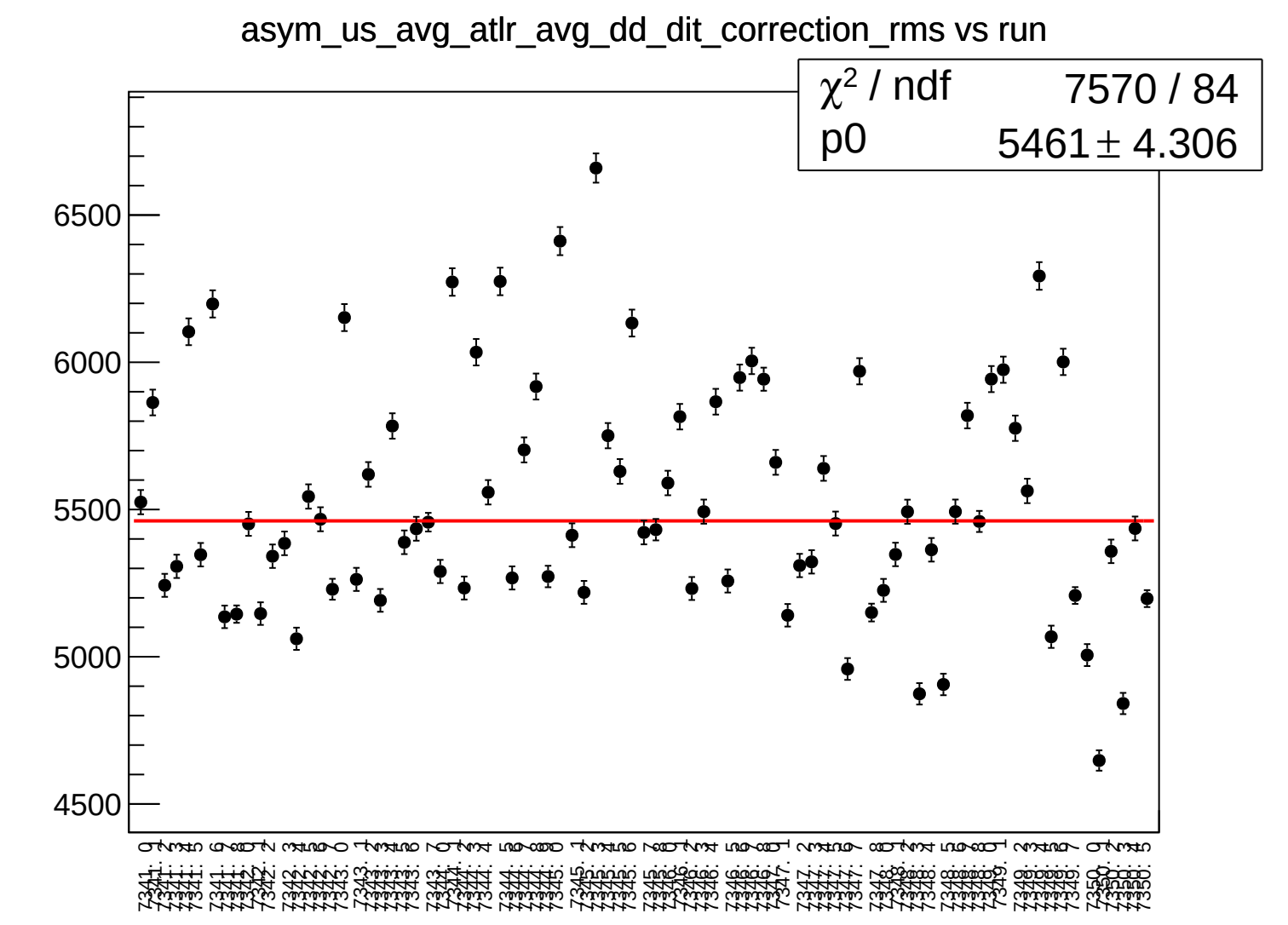

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 78.19 / 84
p0 −2519 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −90.11
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

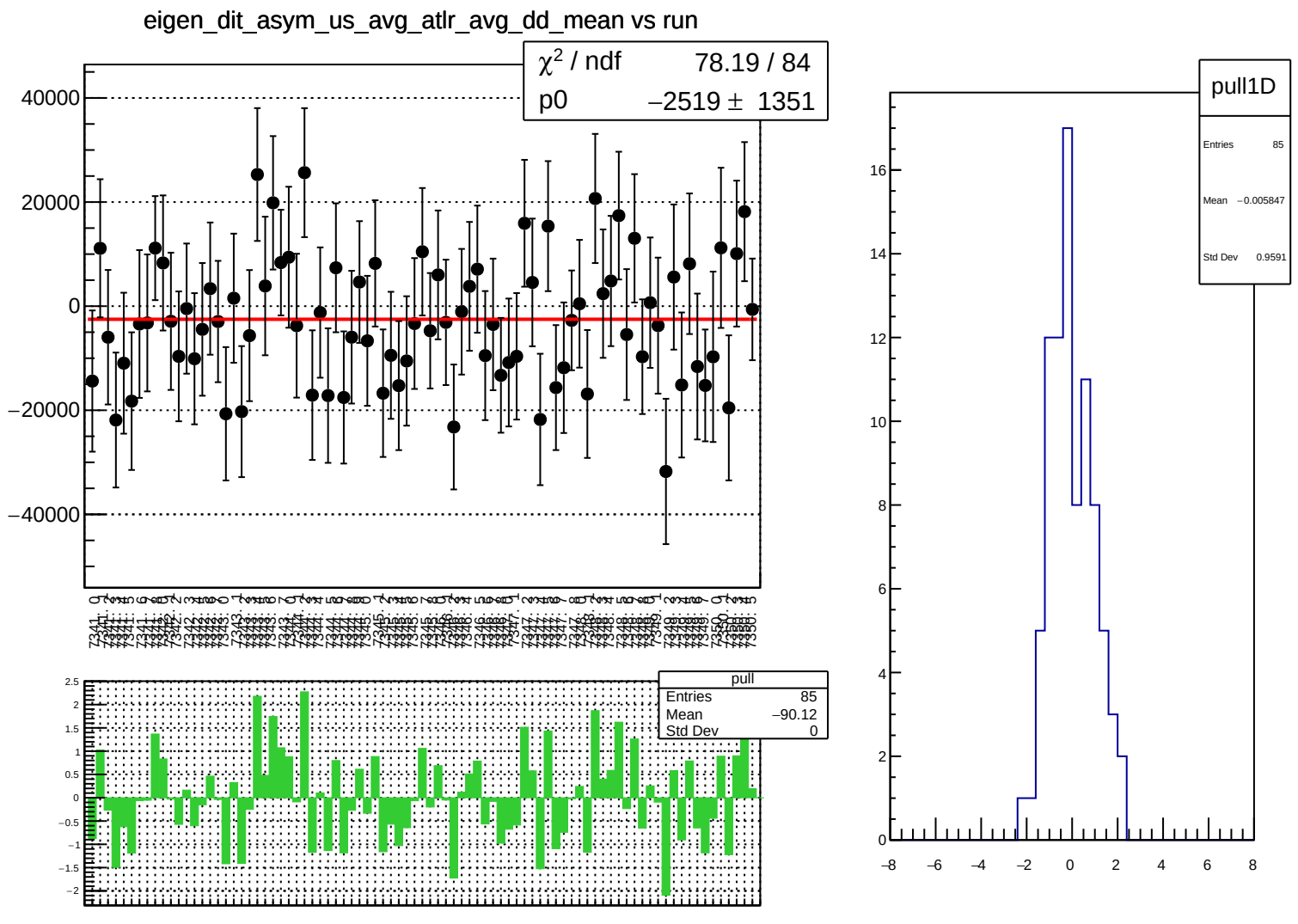

pull1D
Entries 85
Mean −0.005847
Std Dev 0.9591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

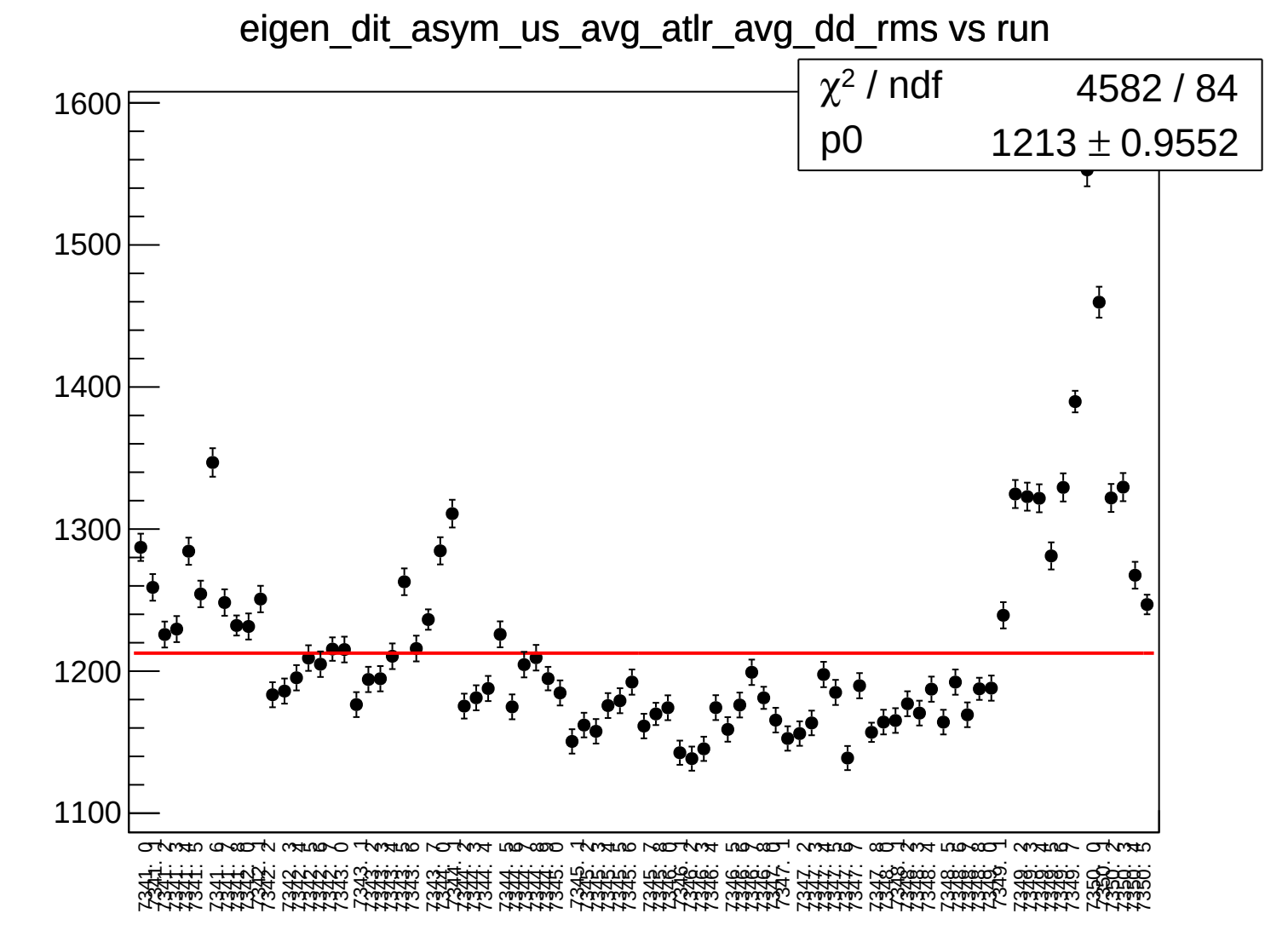

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 4582 / 84
p0 1213 ± 0.9552
1600
1500
1400
1300
1200
1100

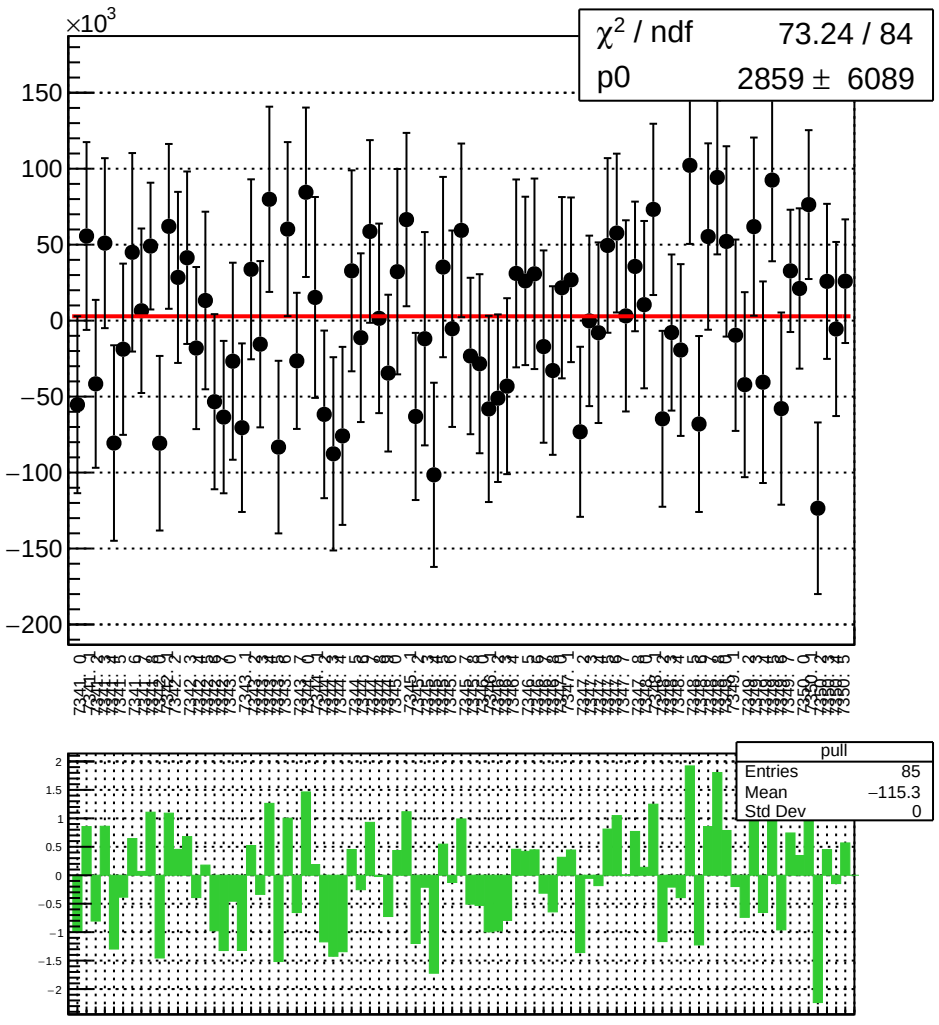

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 73.24 / 84
p0 2859 ± 6089
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean −115.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

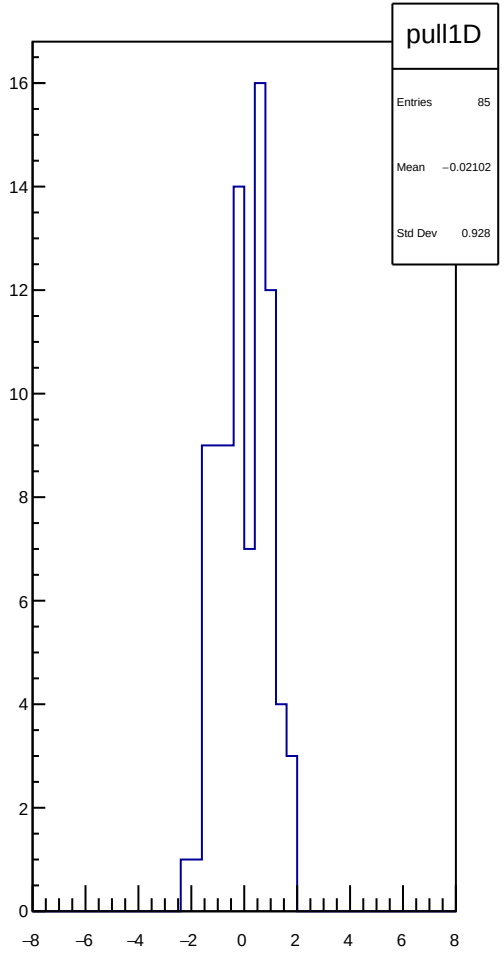

pull1D
Entries 85
Mean −0.02102
Std Dev 0.928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

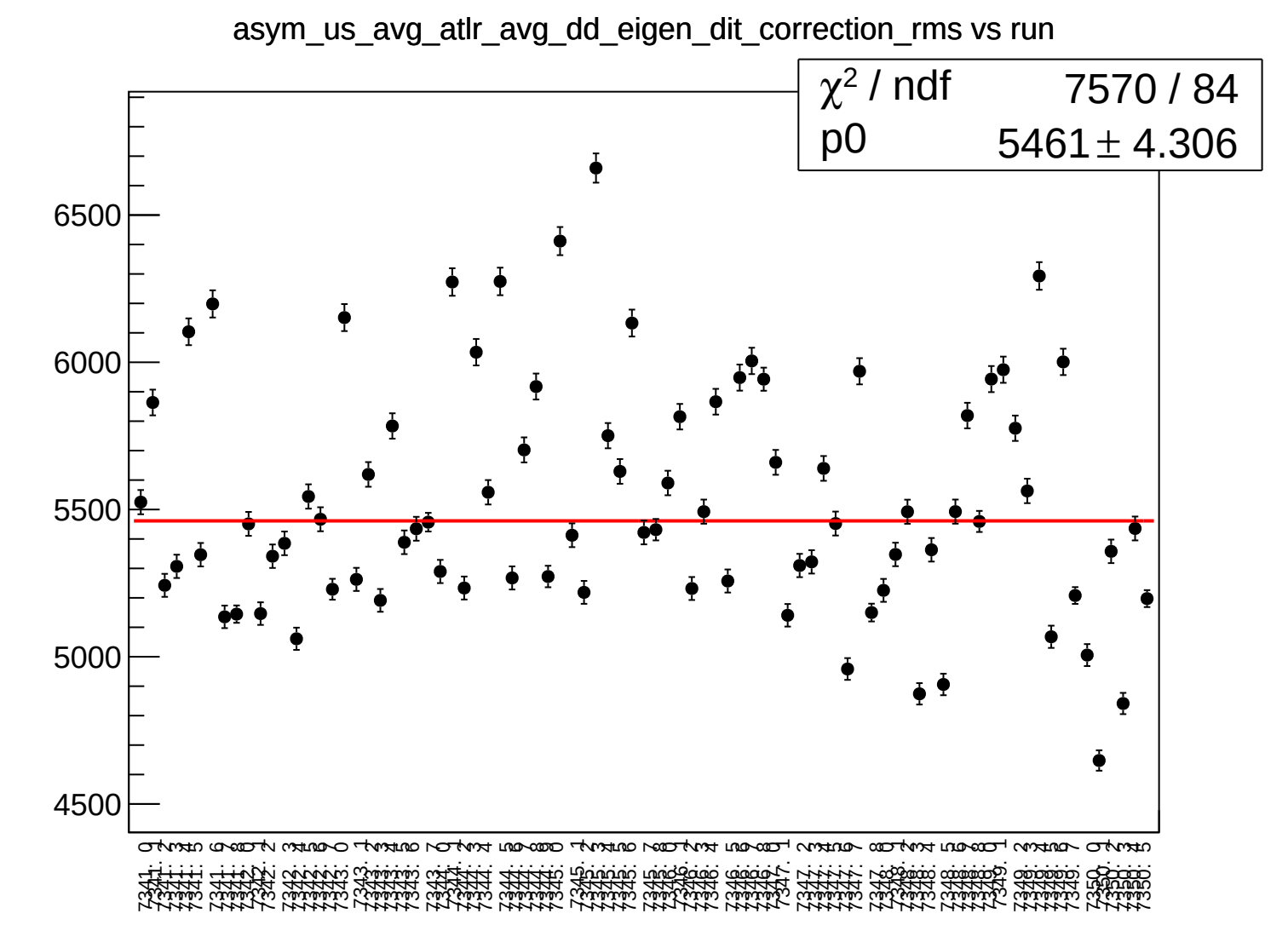

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 7570 / 84
p0 5461 ± 4.306
6500
6000
5500
5000
4500

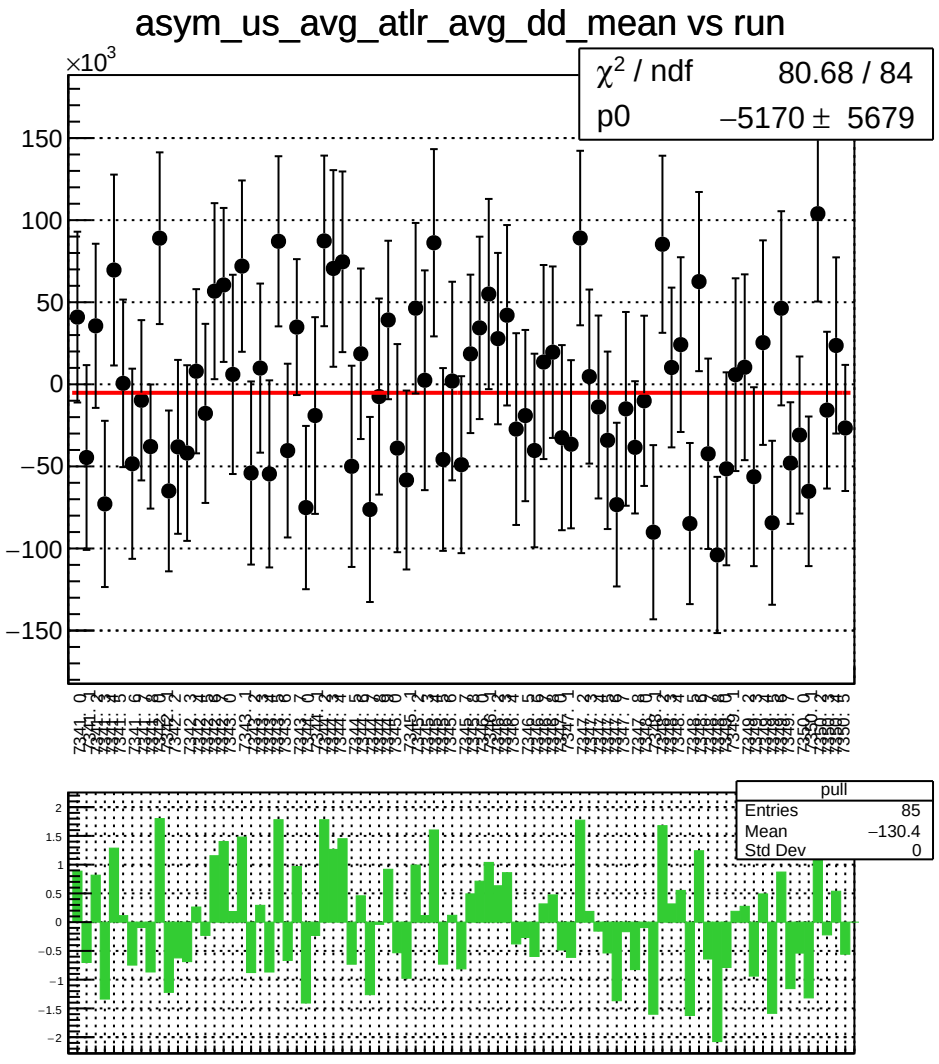

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 78.19 / 84
p0 −2519 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −90.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.005847
Std Dev 0.9591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

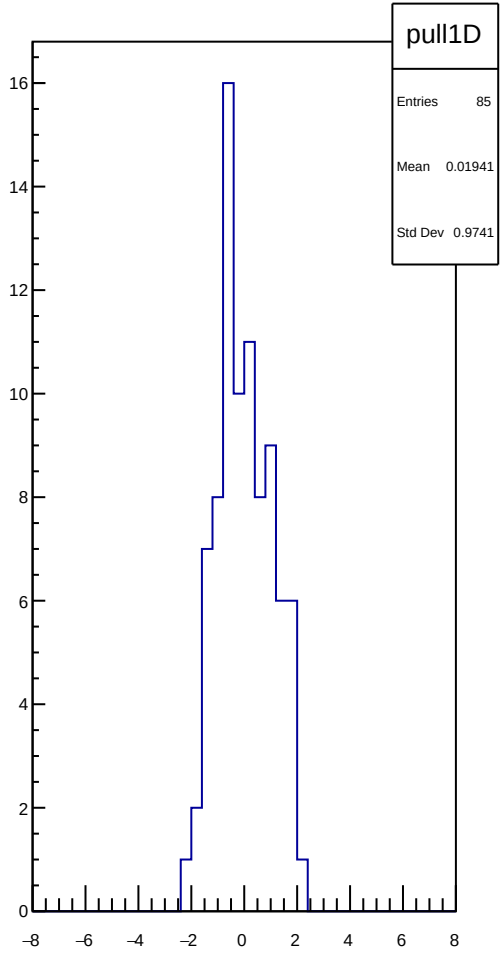

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 4582 / 84
p0 1213 ± 0.9552
1600
1500
1400
1300
1200
1100

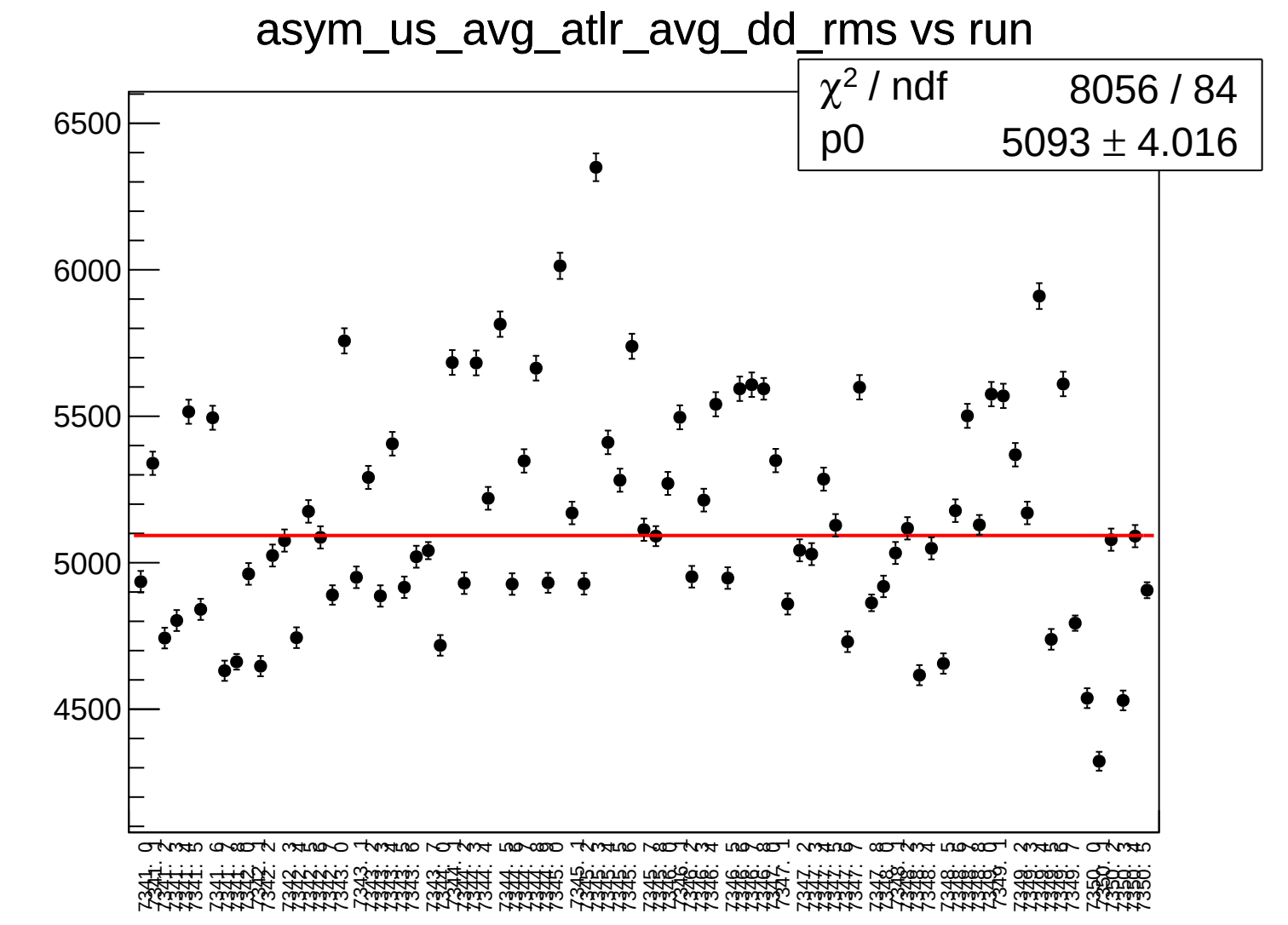

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 73.24 / 84
p0 2859 ± 6089
150
100
50
0
−50
−100
−150
−200
pull
Entries 85
Mean −115.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

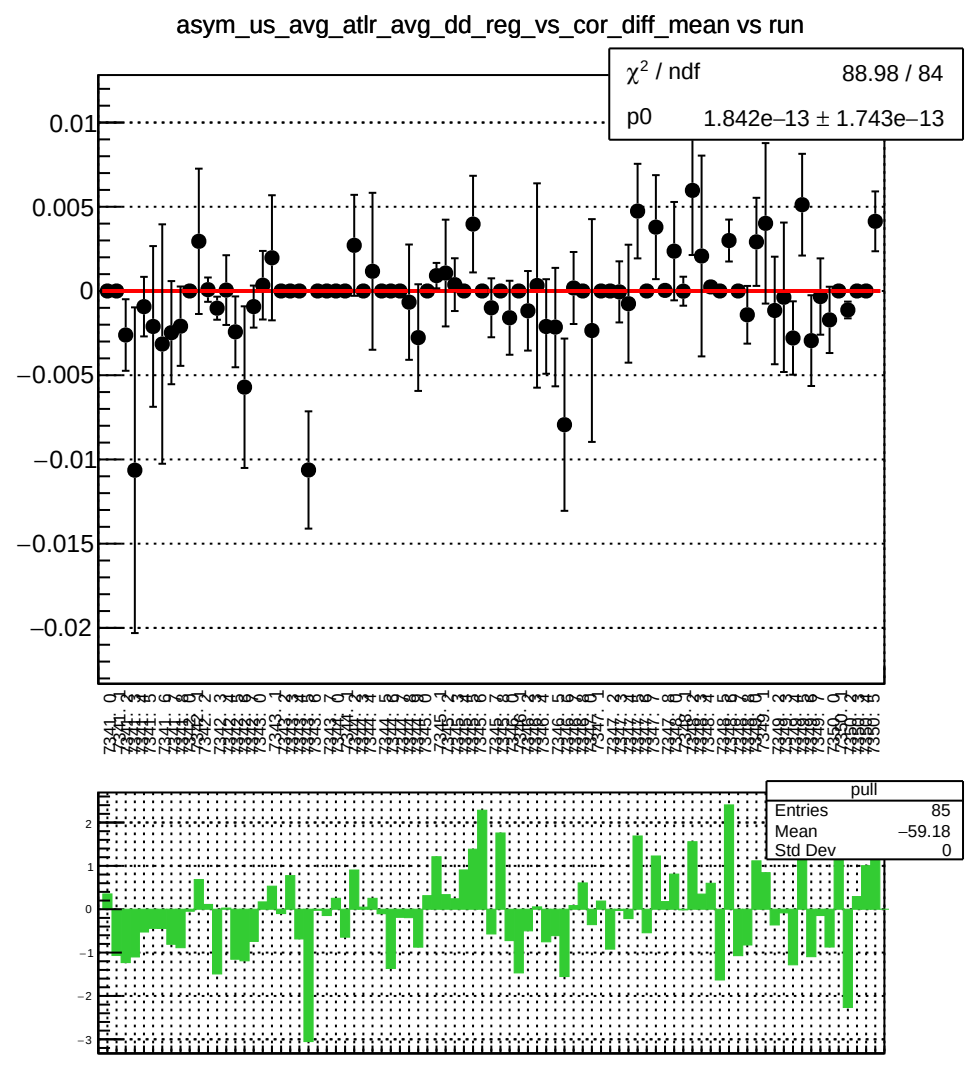

pull1D
Entries 85
Mean −0.02102
Std Dev 0.928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

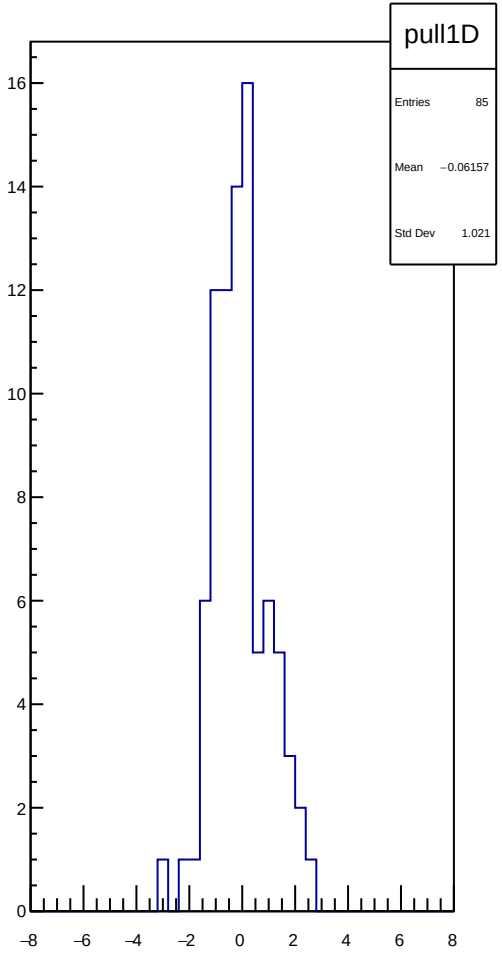

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7570 / 84
p0 5461 ± 4.306
6500
6000
5500
5000
4500

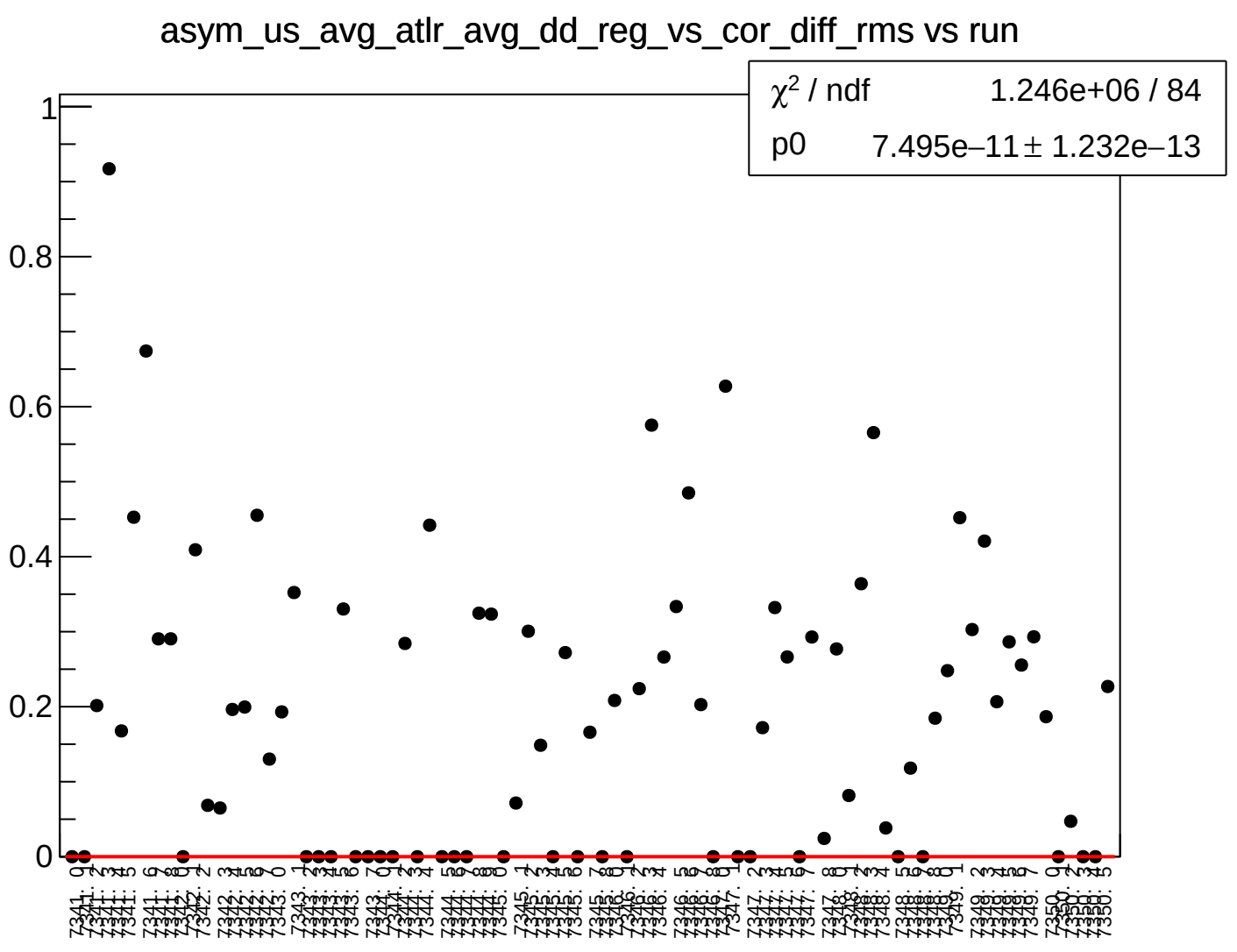

asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 80.68 / 84
p0 −5170 ± 5679
×10³
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean −130.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

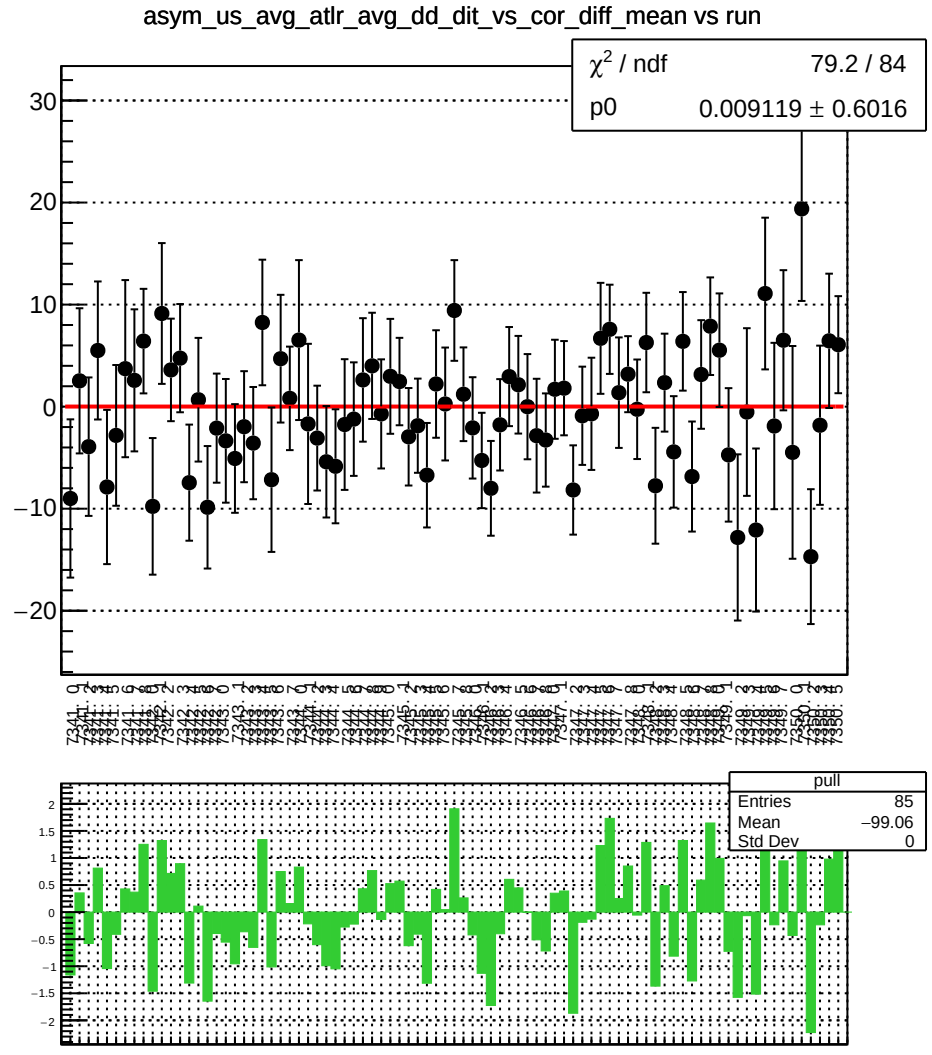

pull1D
Entries 85
Mean 0.01941
Std Dev 0.9741
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

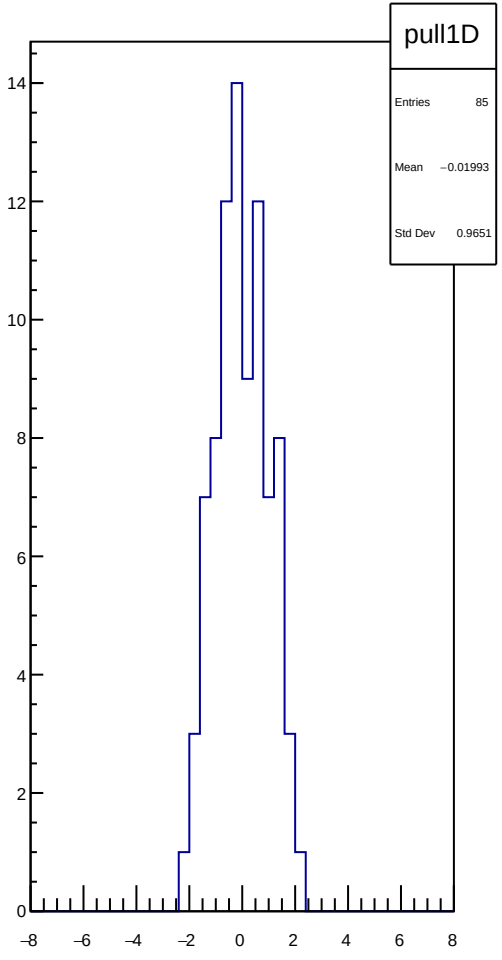

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 8056 / 84
p0 5093 ± 4.016
6500
6000
5500
5000
4500

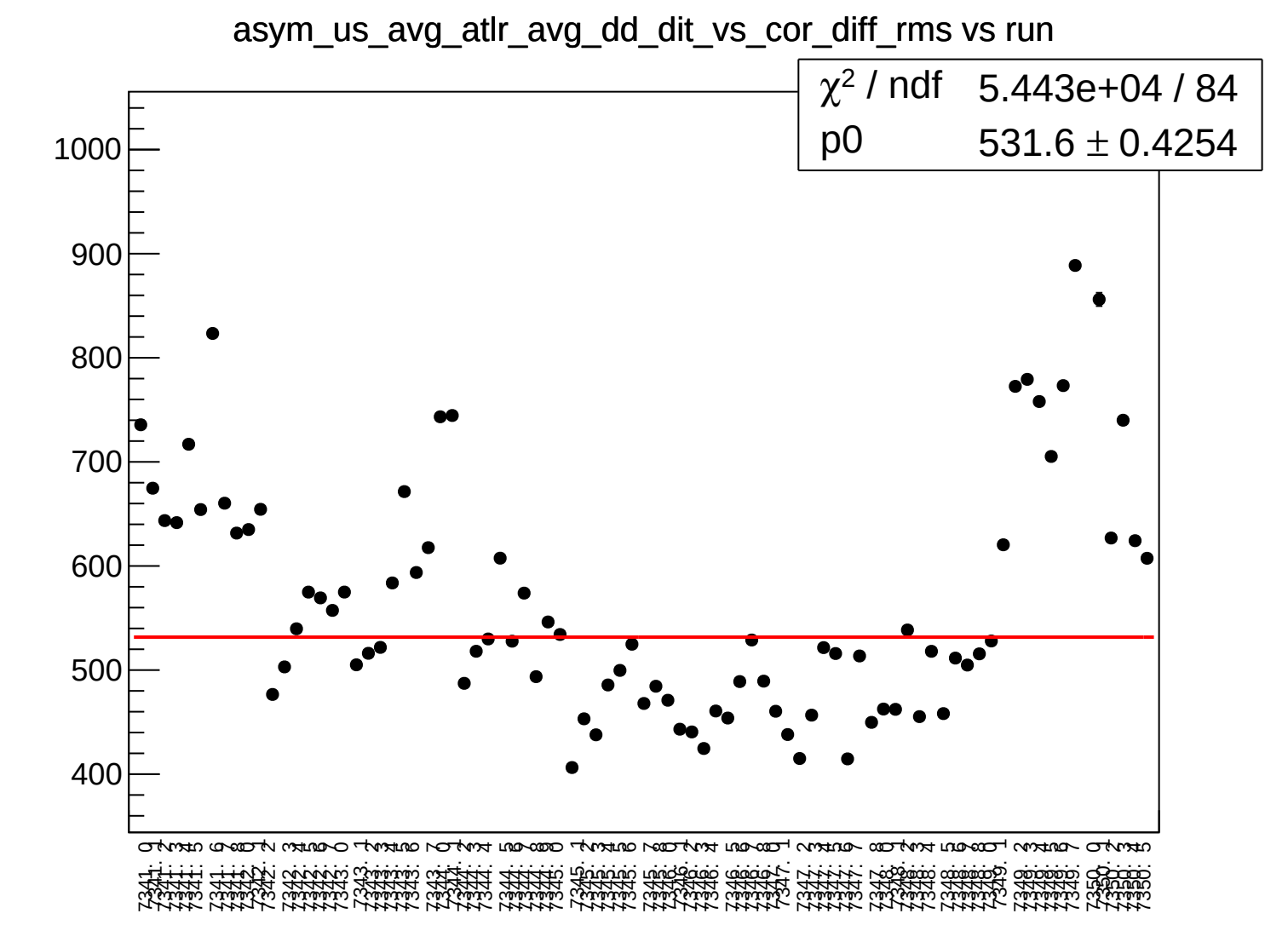

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.98 / 84
p0 1.842e−13 ± 1.743e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 85
Mean −59.18
Std Dev 0
2
1
0
−1
−2
−3

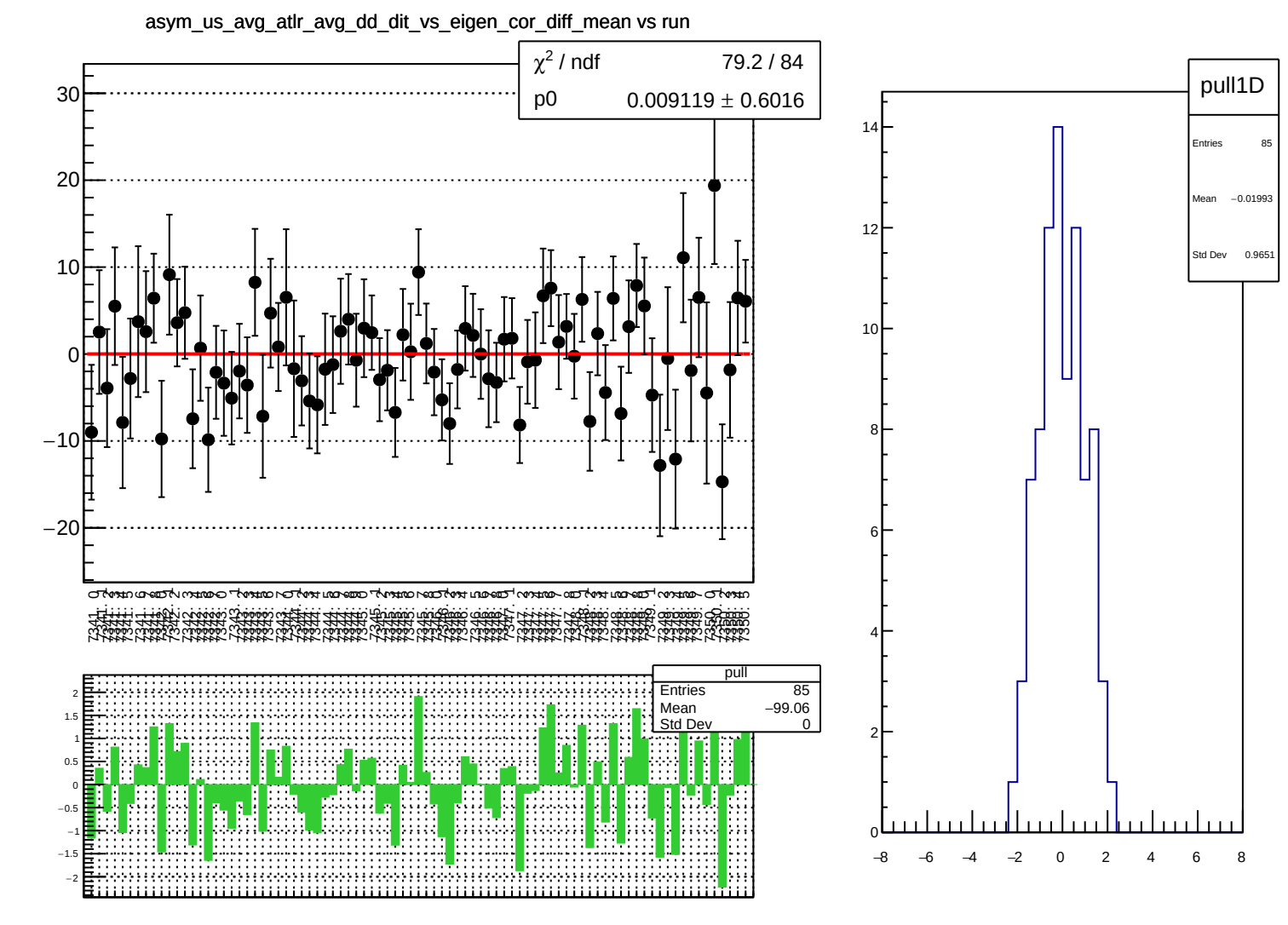

pull1D
Entries 85
Mean −0.06157
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

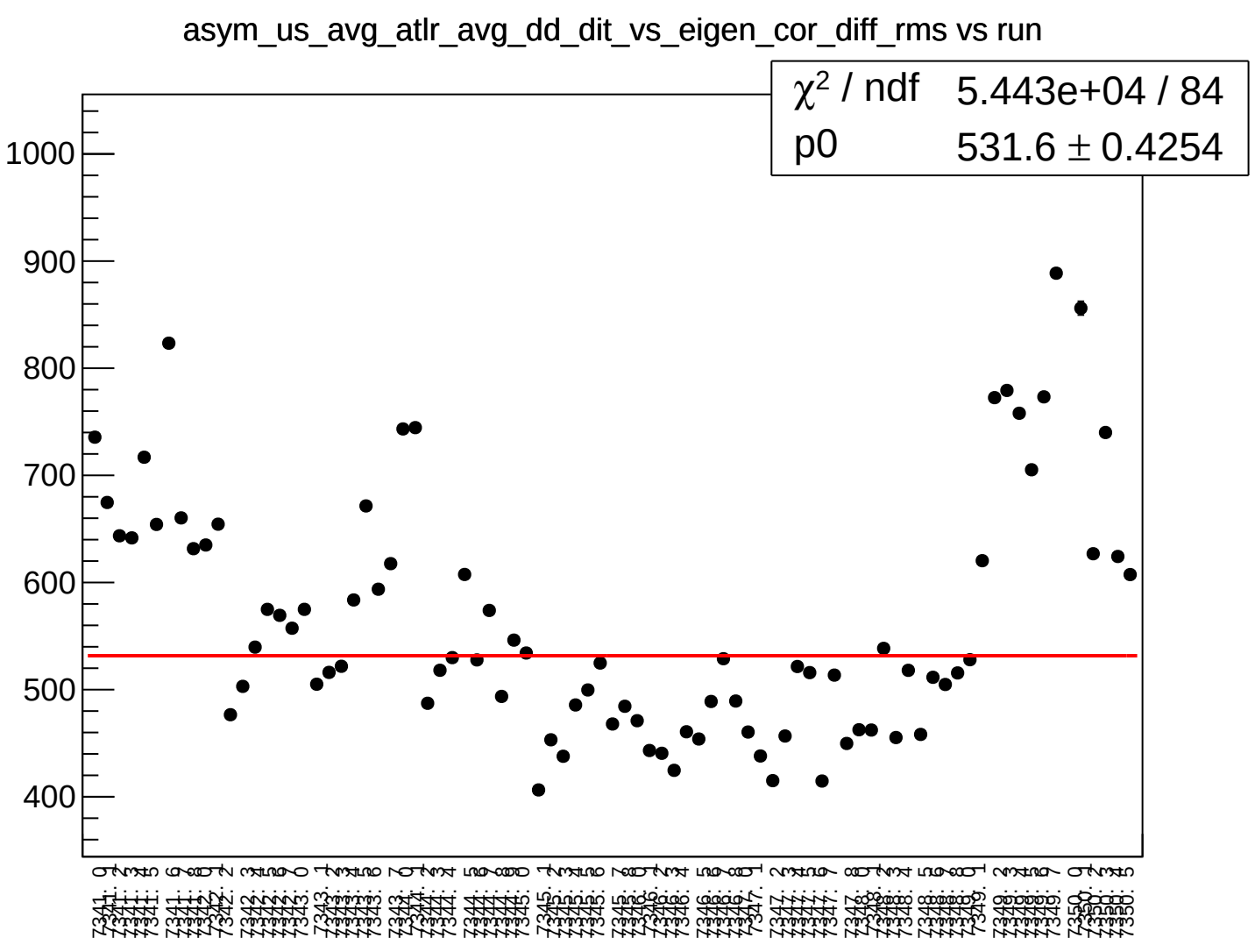

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.246e+06 / 84
p0 7.495e−11 ± 1.232e−13
1
0.8
0.6
0.4
0.2
0

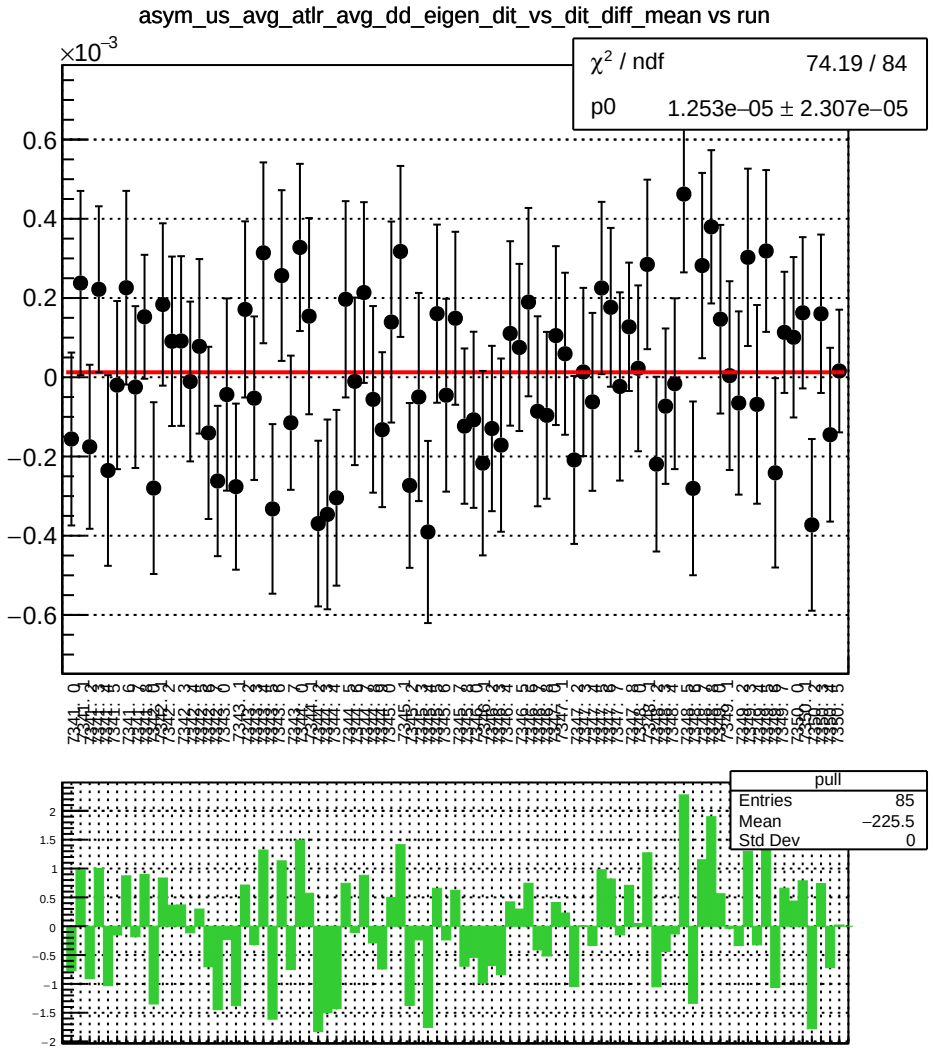

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.2 / 84
p0 0.009119 ± 0.6016
pull
Entries 85
Mean −99.06
Std Dev 0

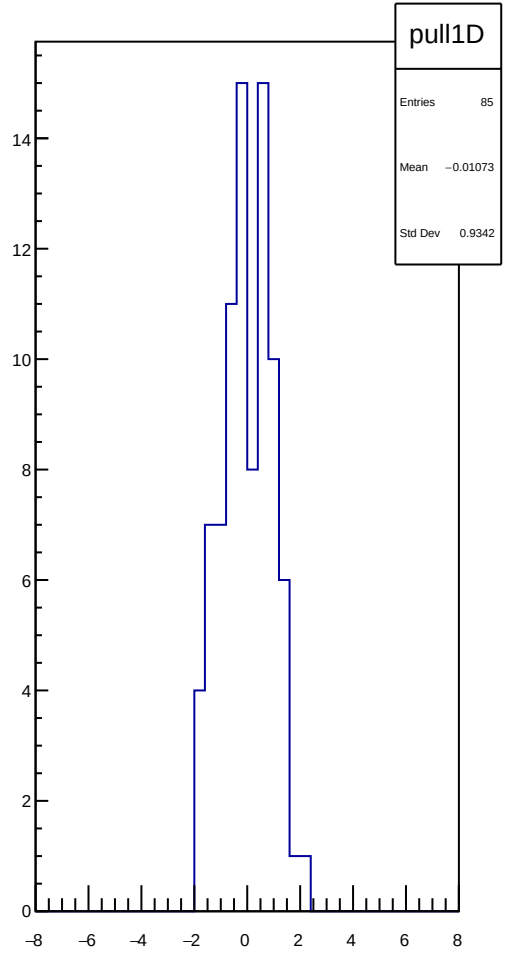

pull1D
Entries 85
Mean −0.01993
Std Dev 0.9651

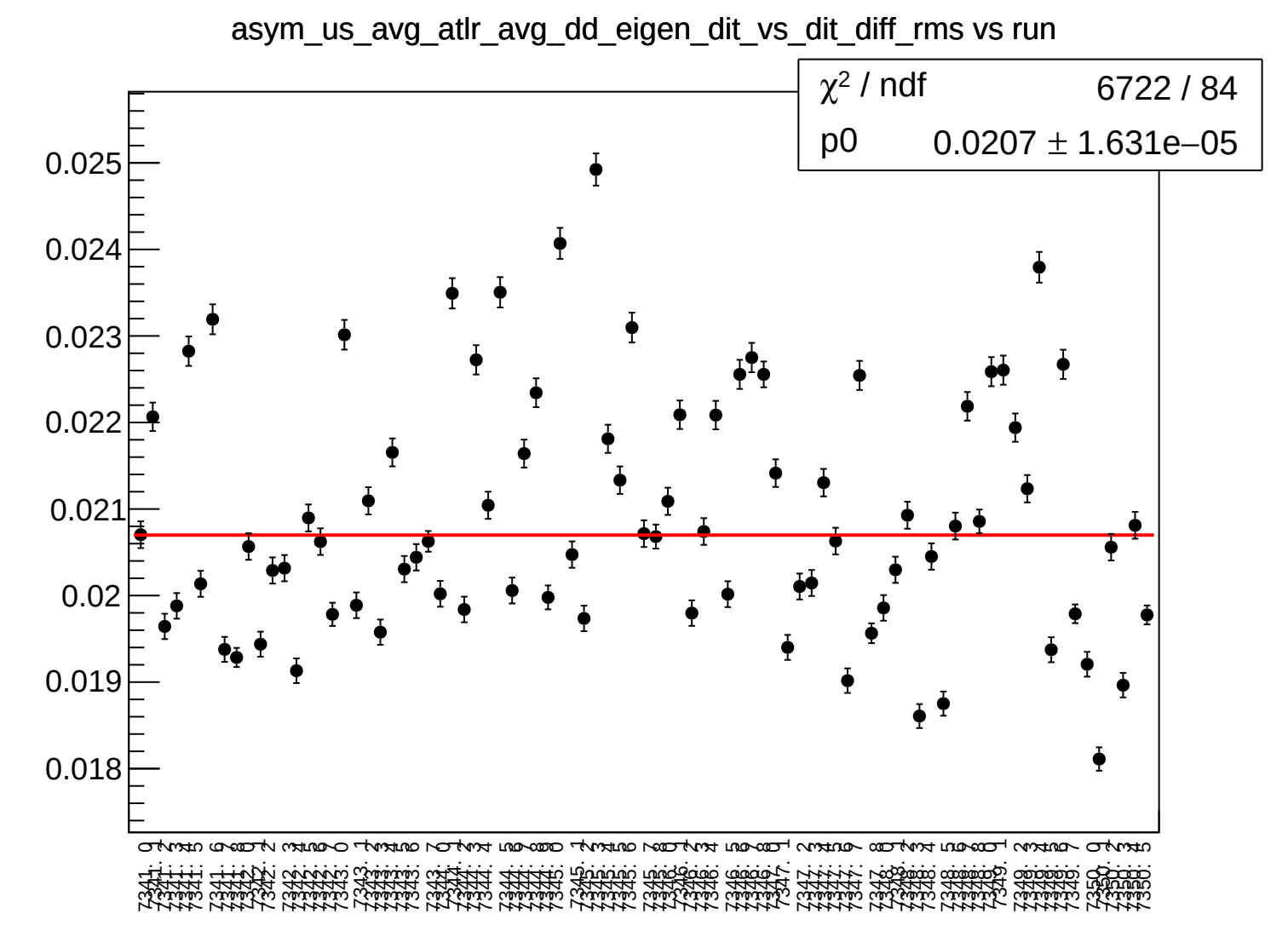

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.443e+04 / 84
p0 531.6 ± 0.4254
1000
900
800
700
600
500
400

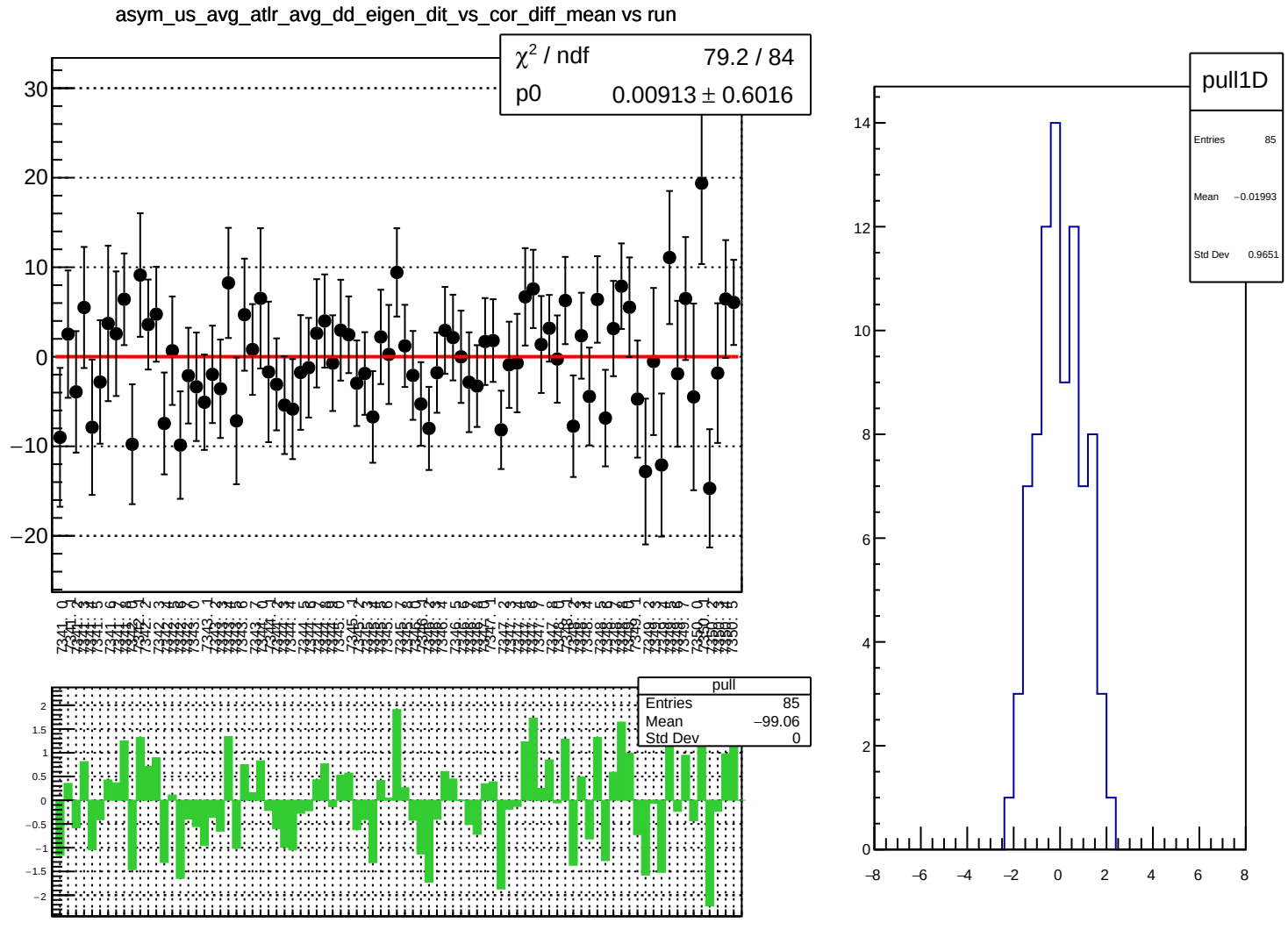

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.2 / 84
p0 0.009119 ± 0.6016
pull
Entries 85
Mean −99.06
Std Dev 0
pull1D
Entries 85
Mean −0.01993
Std Dev 0.9651

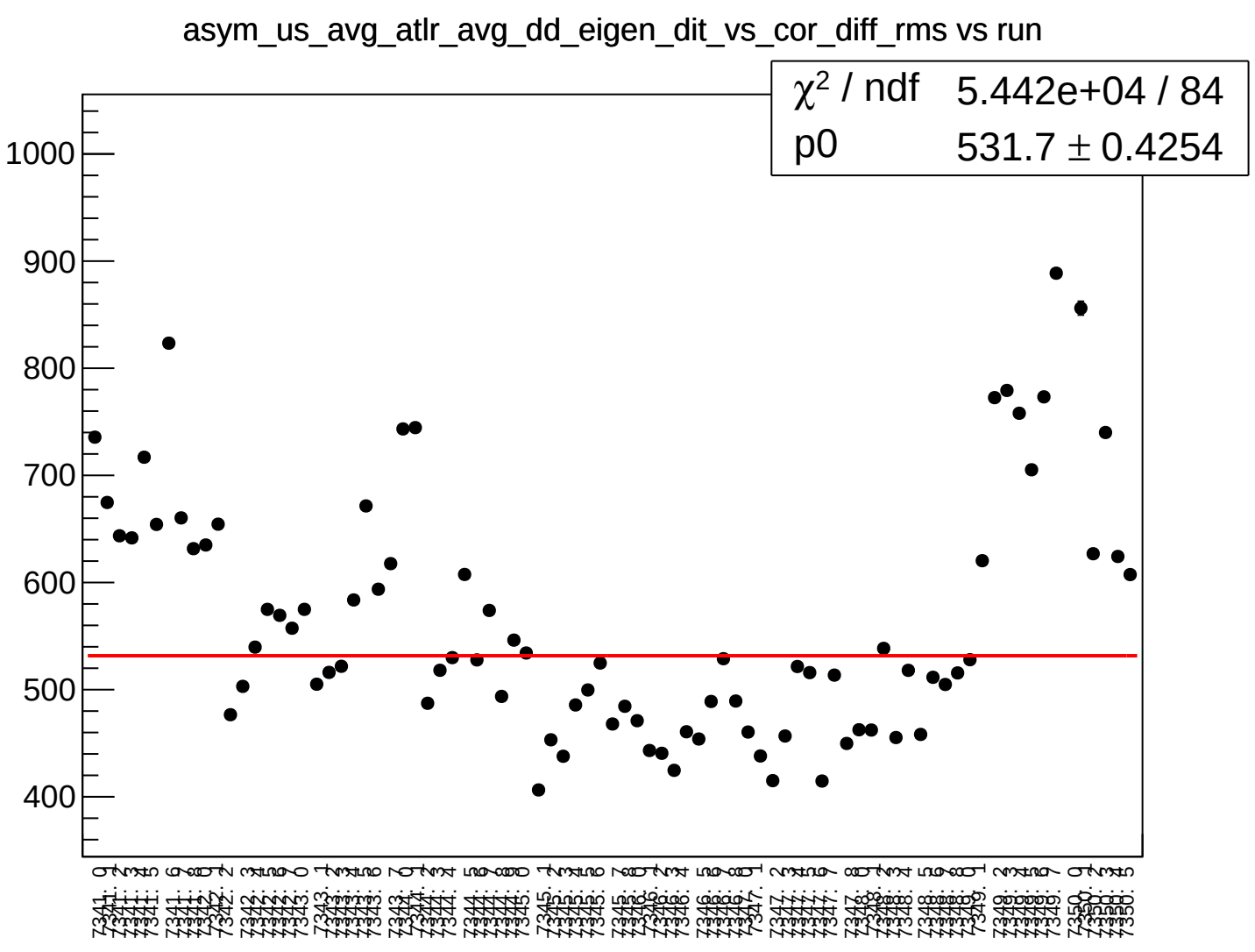

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.443e+04 / 84
p0 531.6 ± 0.4254
1000
900
800
700
600
500
400

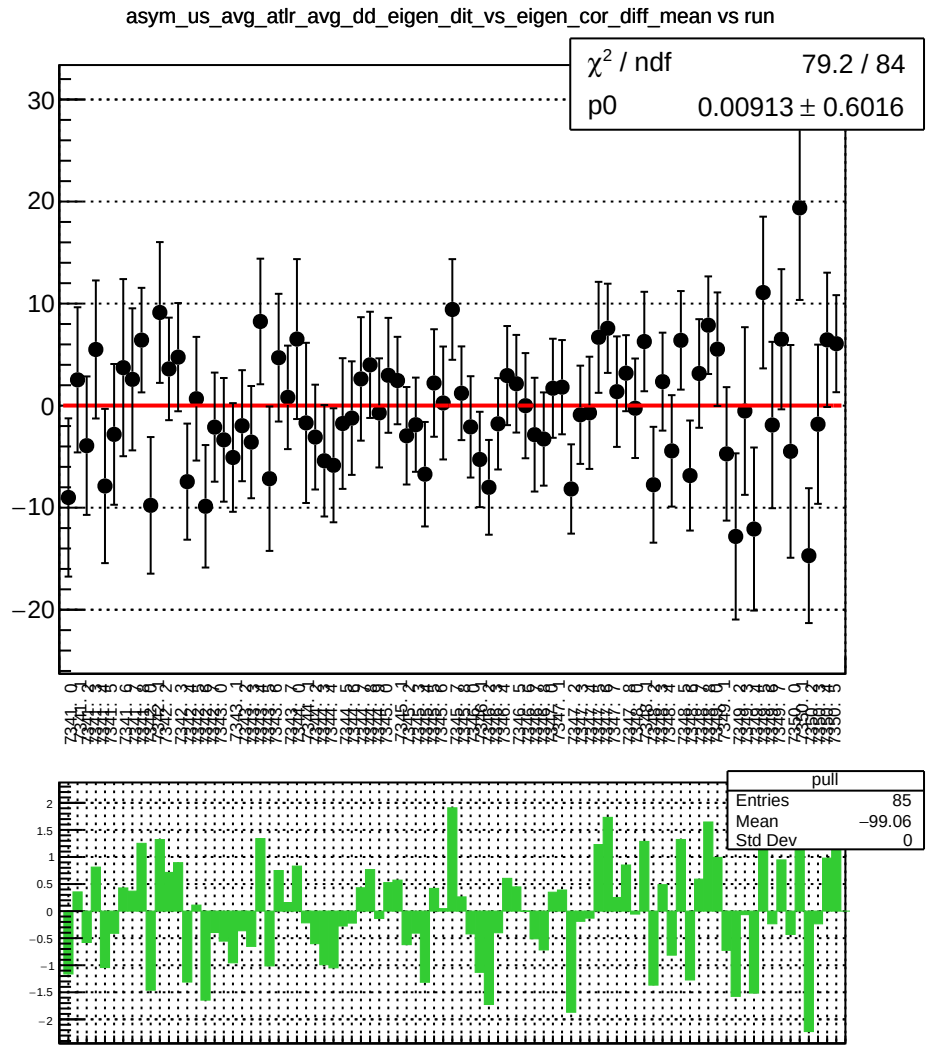

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.19 / 84
p0 1.253e−05 ± 2.307e−05
pull
Entries 85
Mean −225.5
Std Dev 0

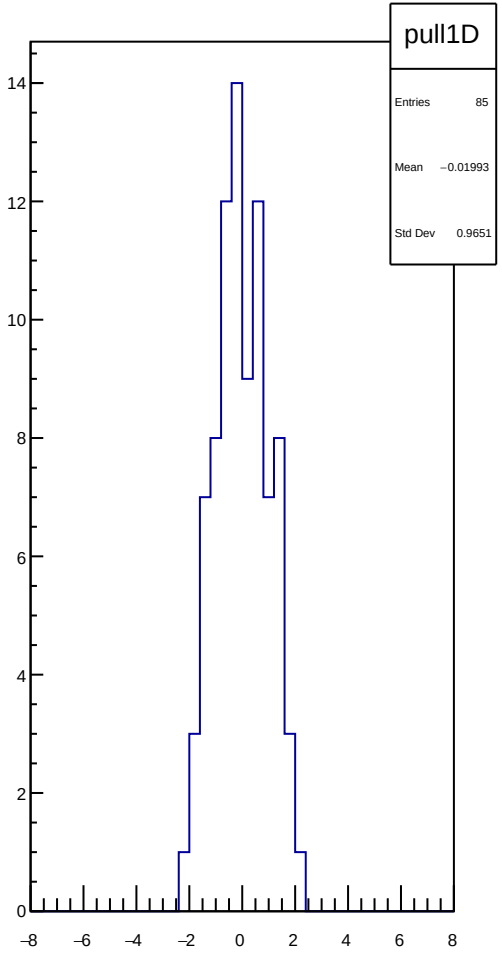

pull1D
Entries 85
Mean −0.01073
Std Dev 0.9342

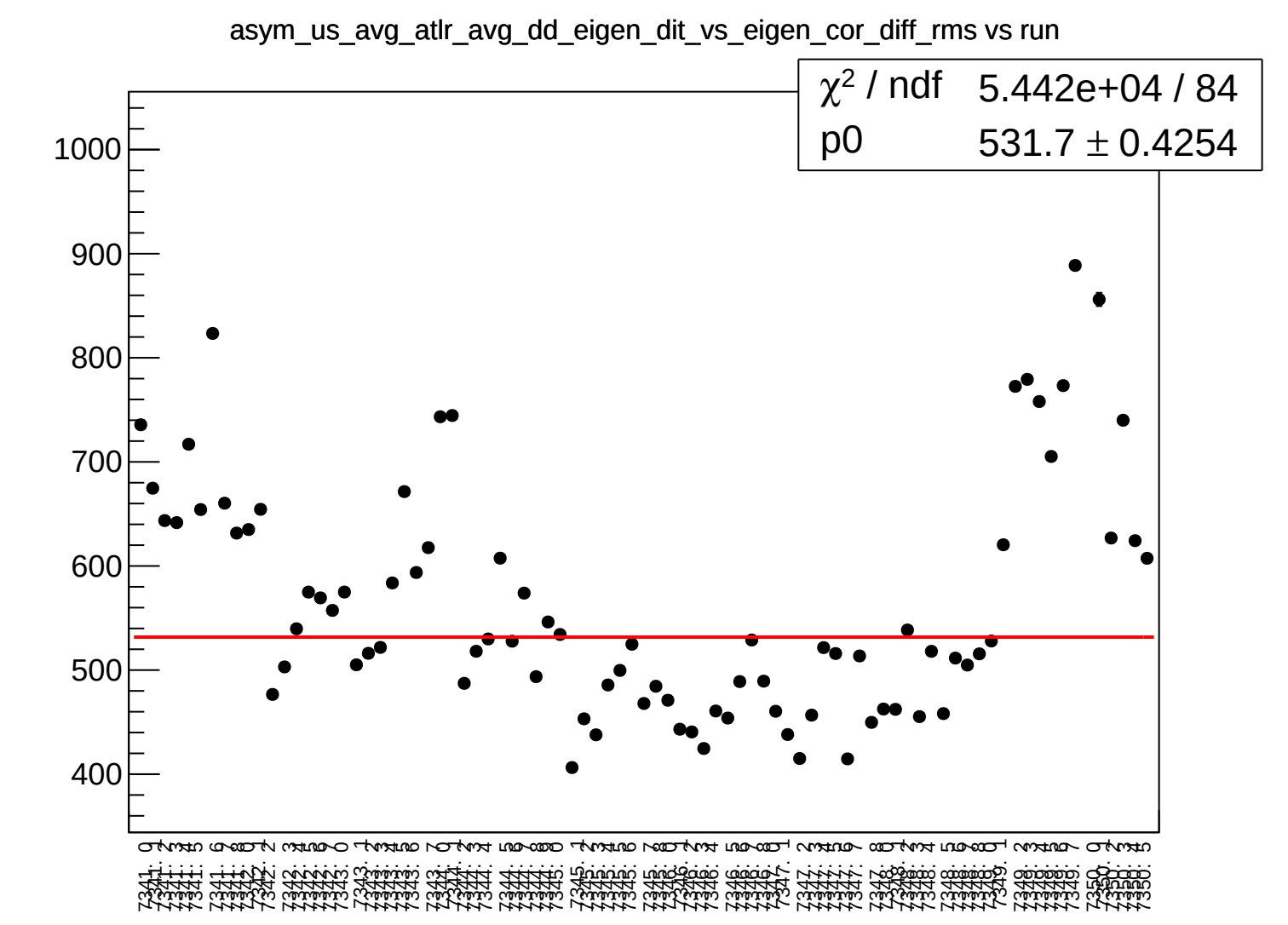

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6722 / 84
p0 0.0207 ± 1.631e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018

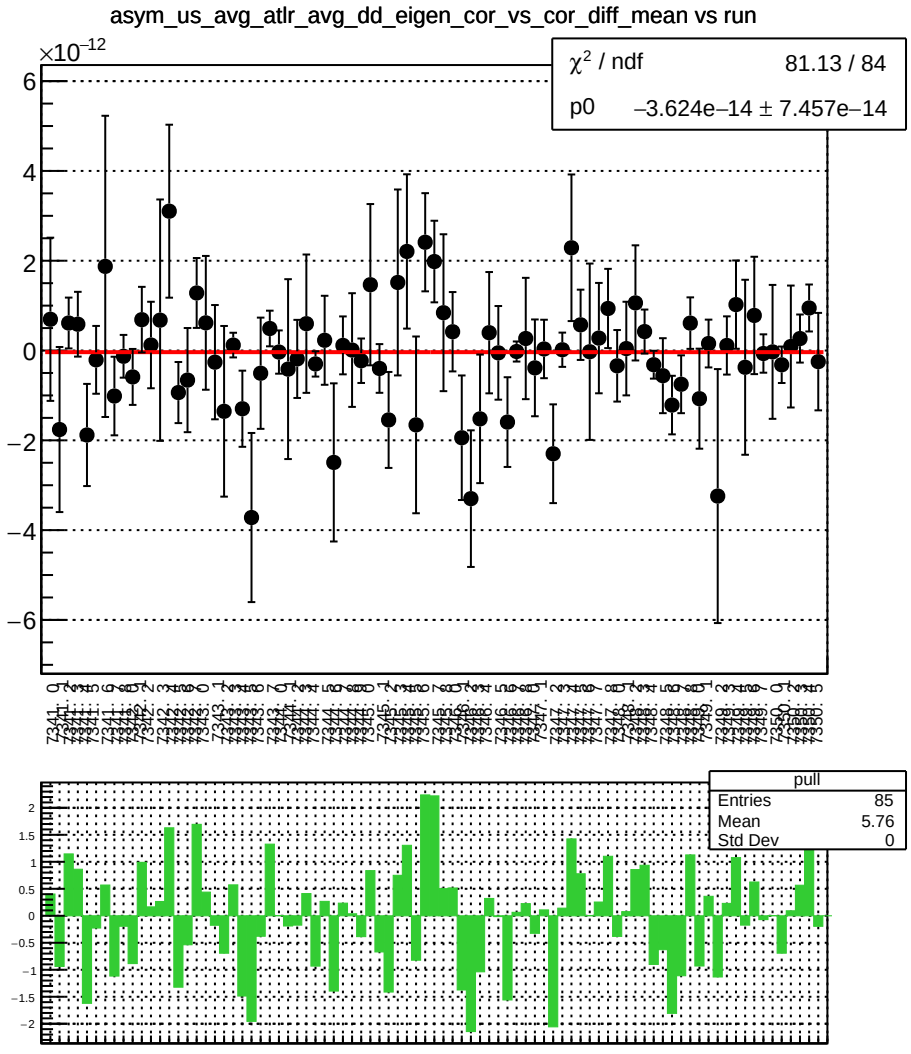

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.2 / 84
p0 0.00913 ± 0.6016
pull
Entries 85
Mean −99.06
Std Dev 0
pull1D
Entries 85
Mean −0.01993
Std Dev 0.9651

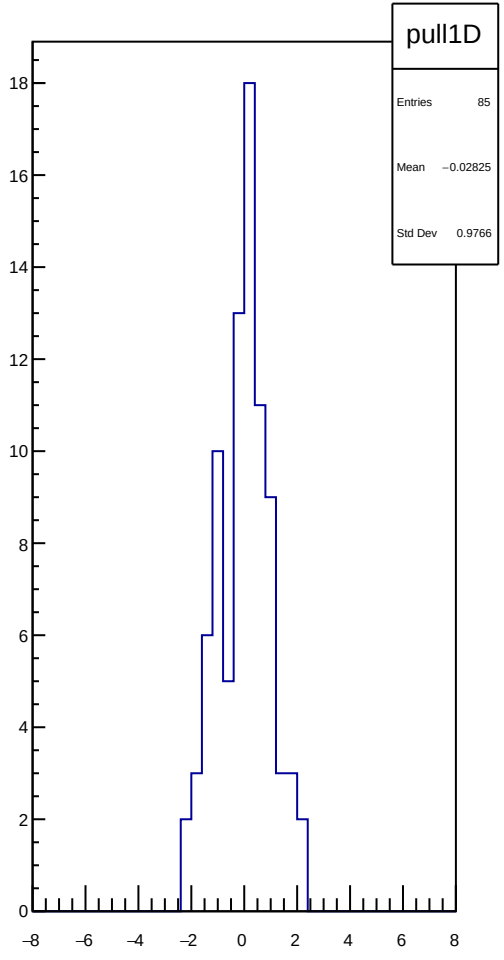

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.442e+04 / 84
p0 531.7 ± 0.4254
1000
900
800
700
600
500
400

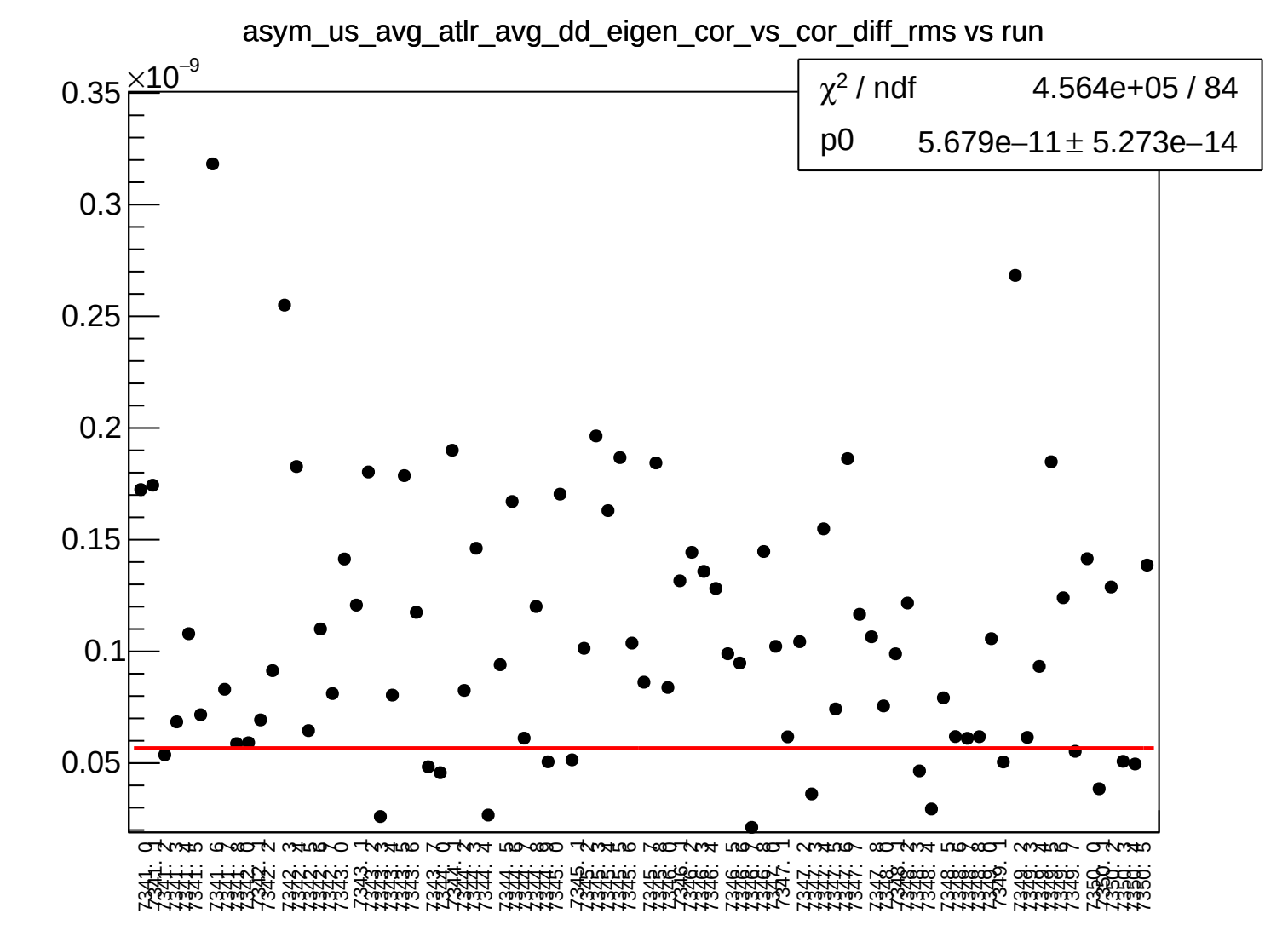

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.2 / 84
p0 0.00913 ± 0.6016
pull
Entries 85
Mean −99.06
Std Dev 0

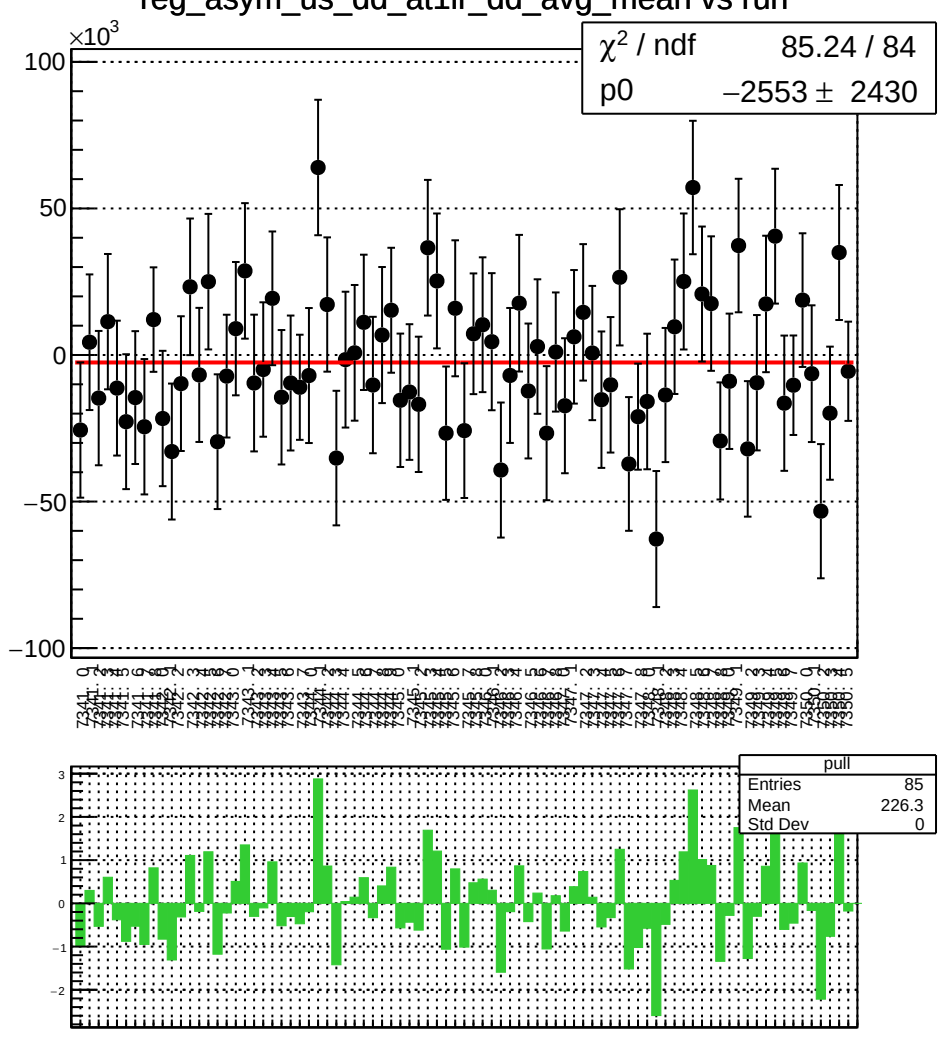

pull1D
Entries 85
Mean −0.01993
Std Dev 0.9651

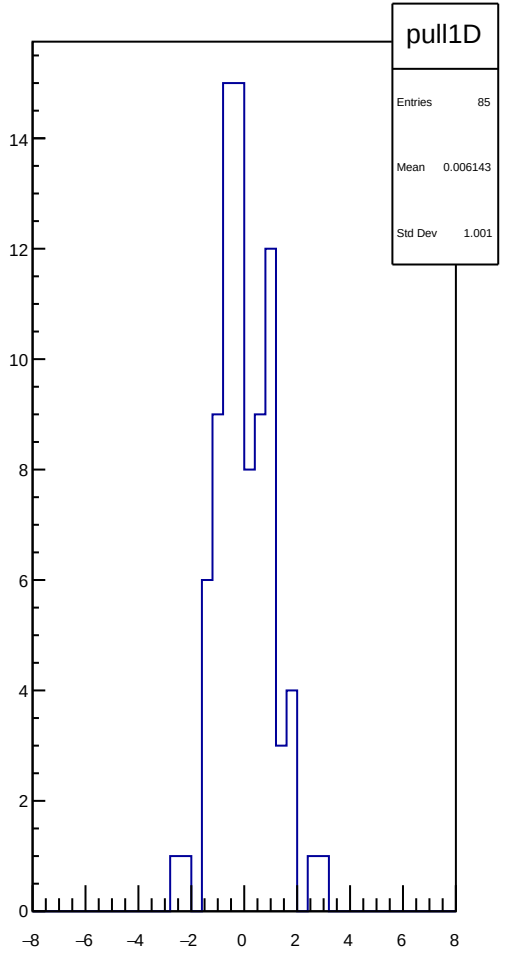

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.442e+04 / 84
p0 531.7 ± 0.4254
1000
900
800
700
600
500
400

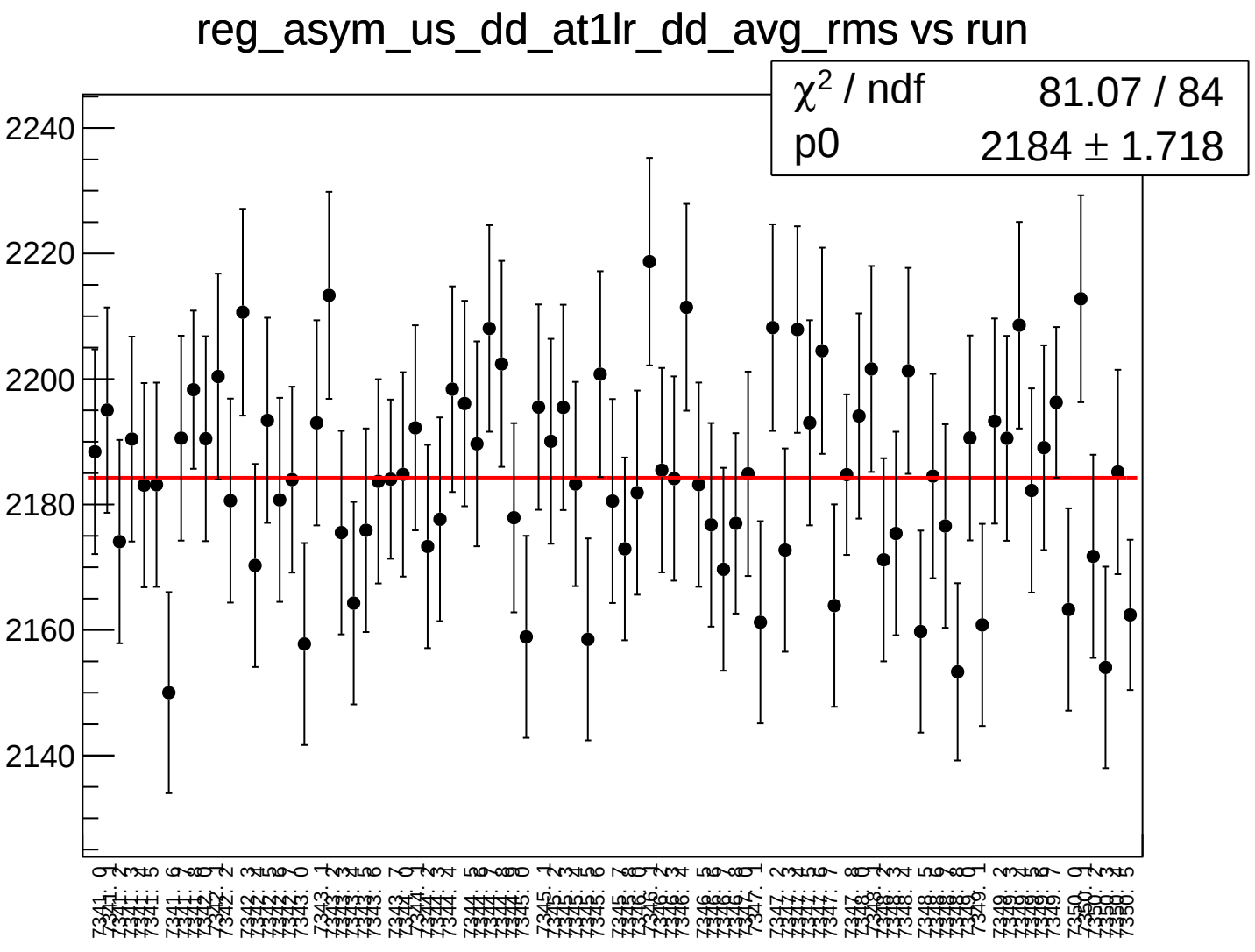

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.13 / 84
p0 −3.624e−14 ± 7.457e−14
pull
Entries 85
Mean 5.76
Std Dev 0

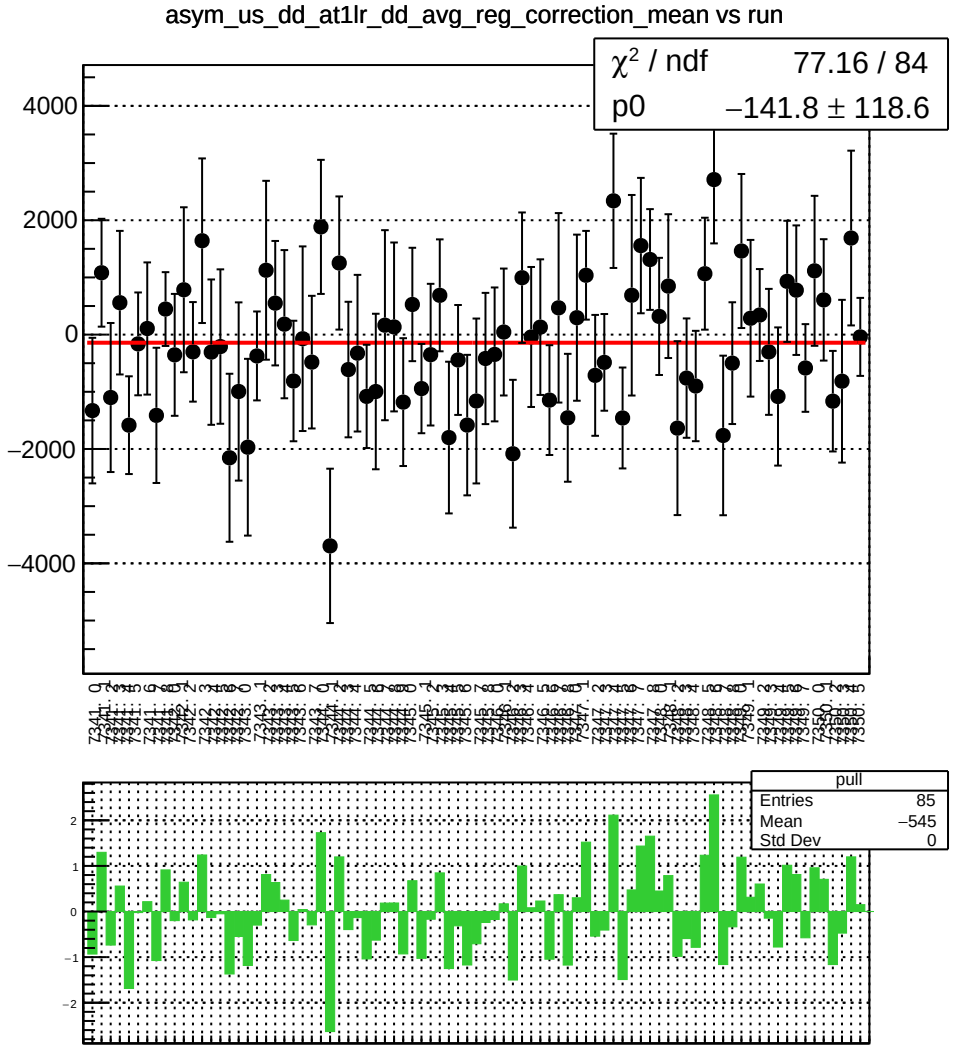

pull1D
Entries 85
Mean −0.02825
Std Dev 0.9766

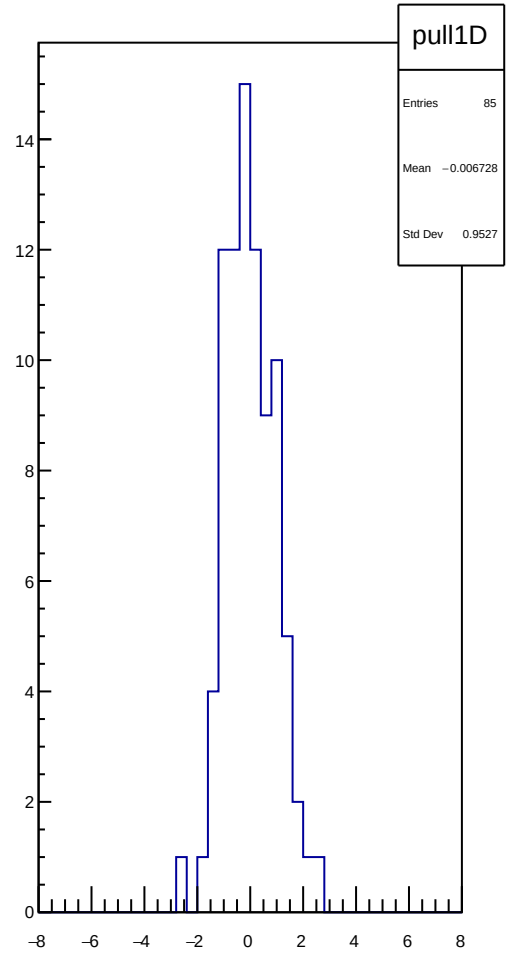

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 4.564e+05 / 84
p0 5.679e−11 ± 5.273e−14
×10⁻⁹
0.35
0.3
0.25
0.2
0.15
0.1
0.05

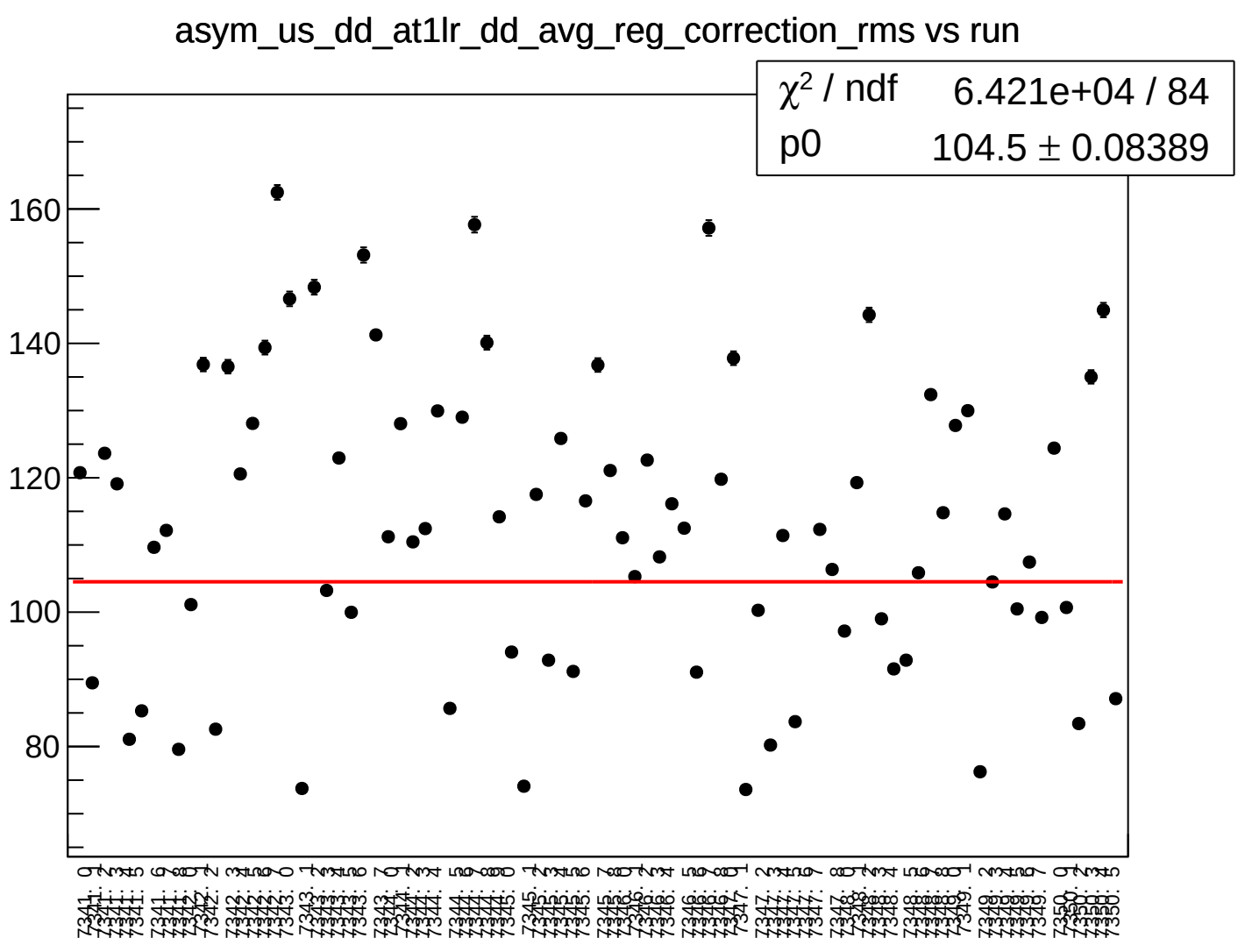

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 85.24 / 84
p0 −2553 ± 2430
pull
Entries 85
Mean 226.3
Std Dev 0

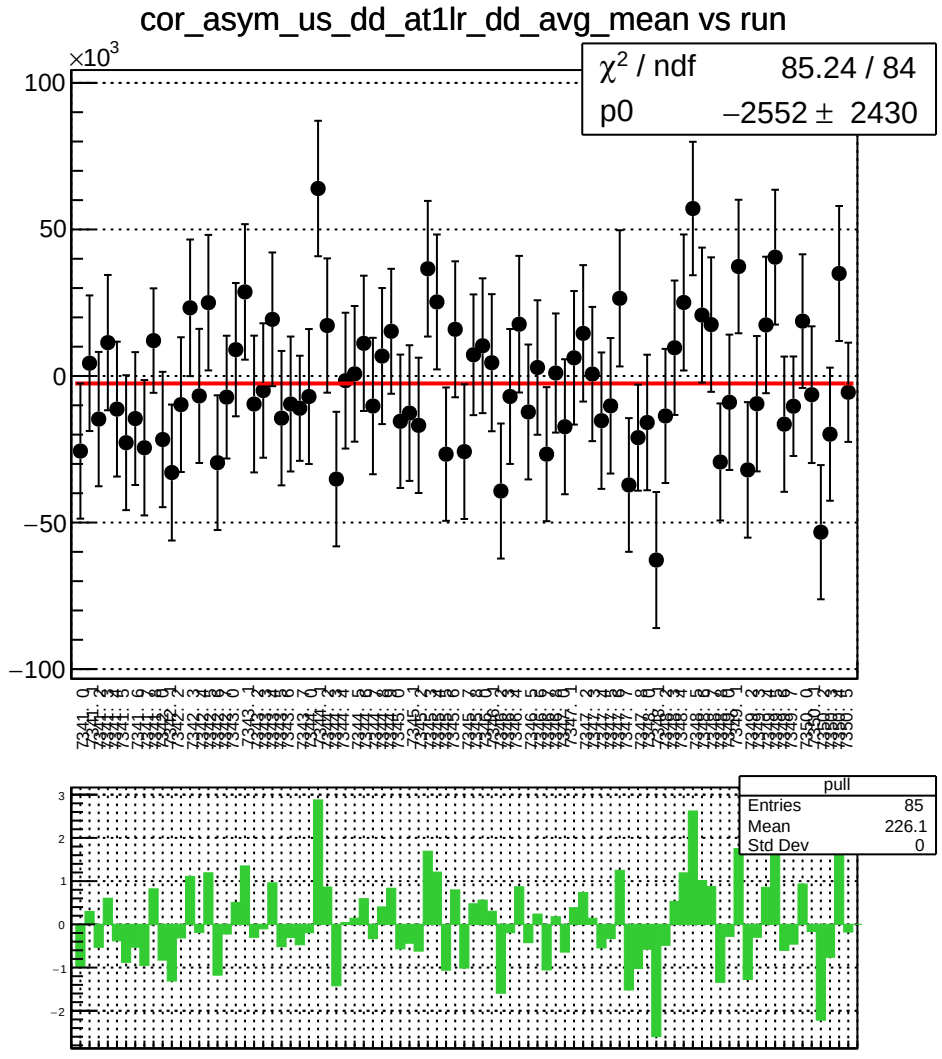

pull1D
Entries 85
Mean 0.006143
Std Dev 1.001

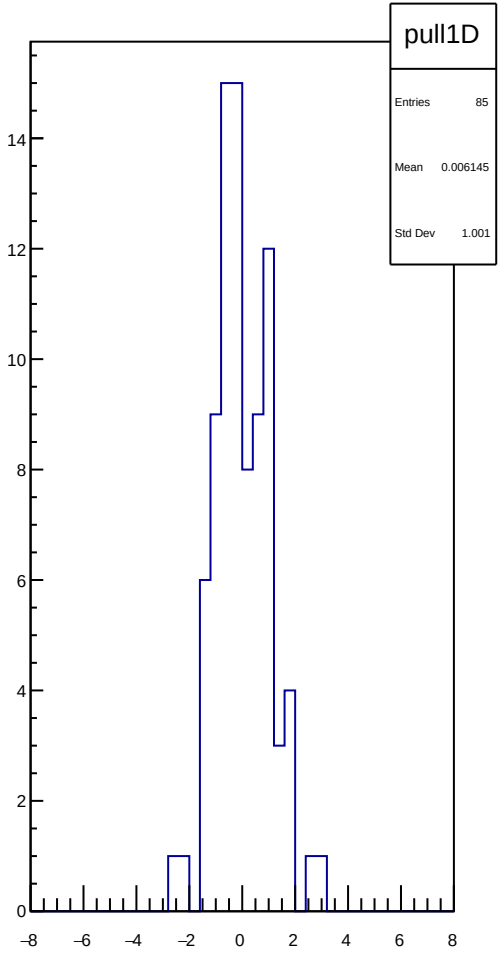

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 81.07 / 84
p0 2184 ± 1.718
2240
2220
2200
2180
2160
2140

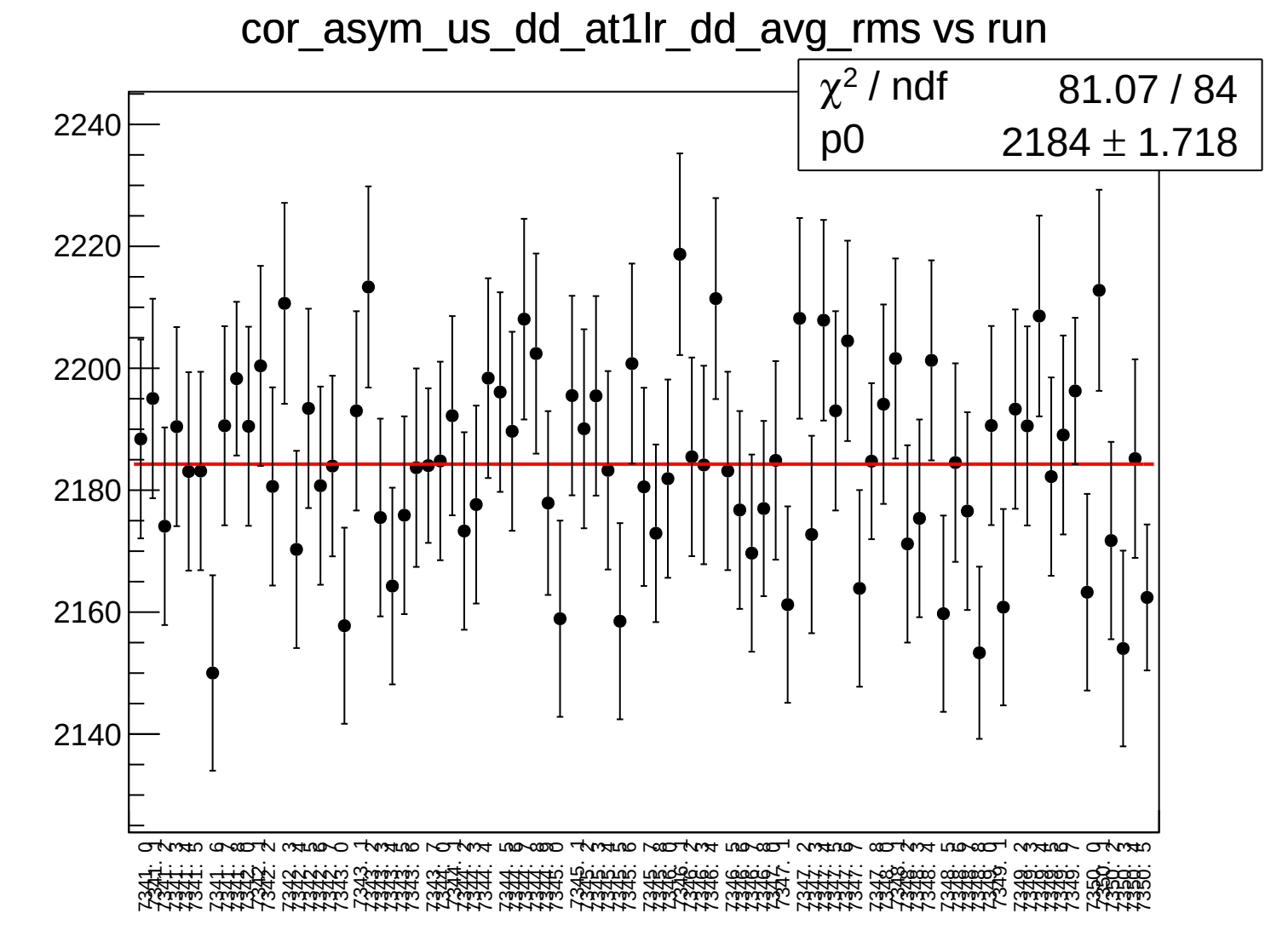

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 77.16 / 84
p0 −141.8 ± 118.6
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −545
Std Dev 0
2
1
0
−1
−2

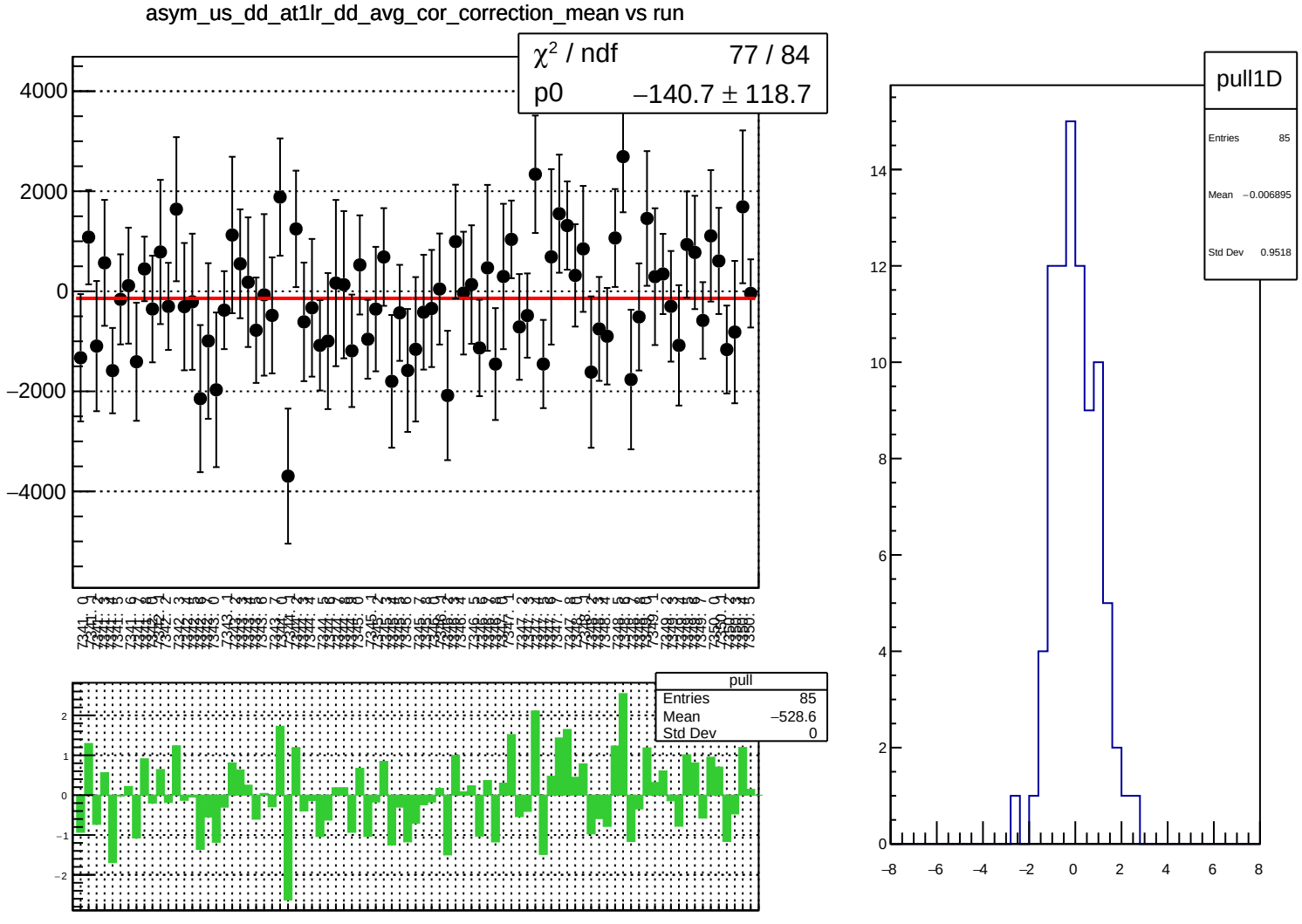

pull1D
Entries 85
Mean −0.006728
Std Dev 0.9527
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

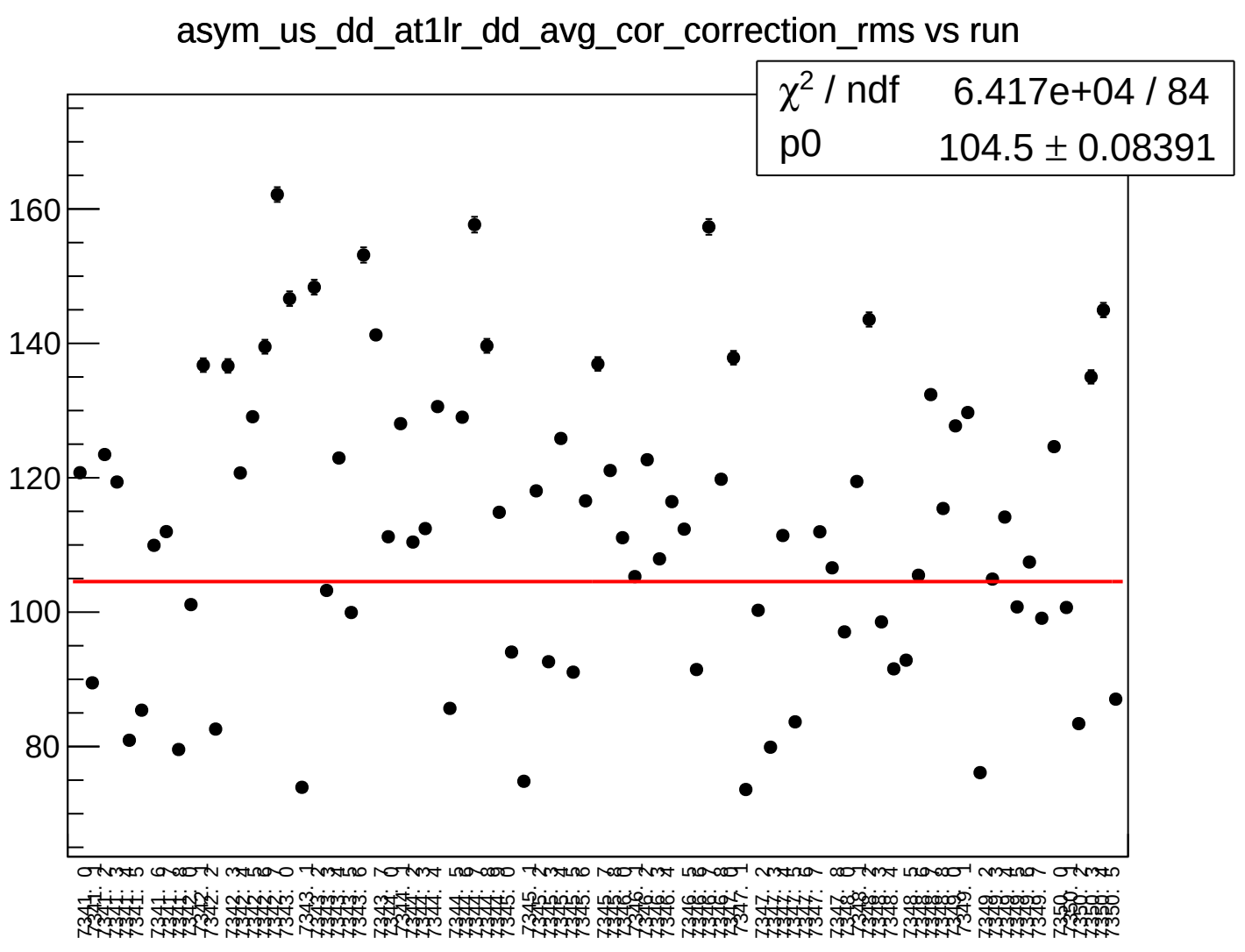

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 6.421e+04 / 84
p0 104.5 ± 0.08389
160
140
120
100
80

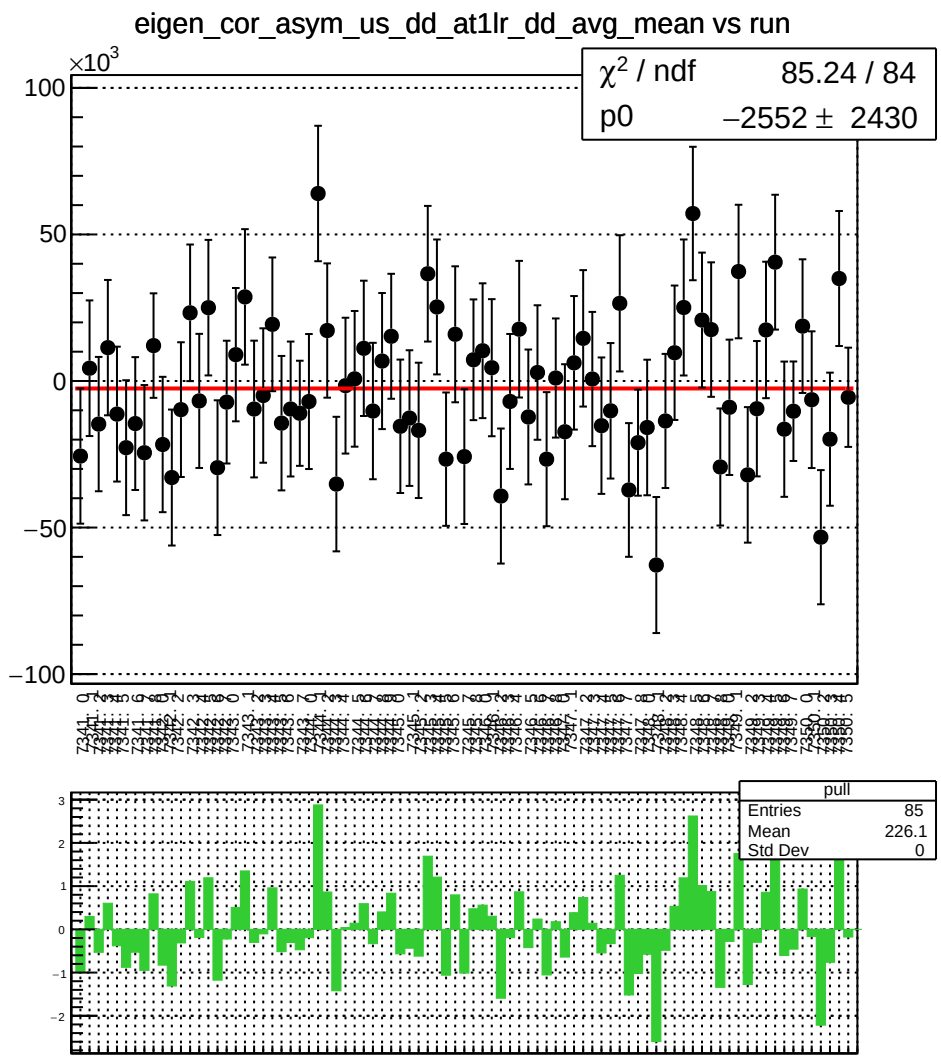

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 85.24 / 84
p0 −2552 ± 2430
pull
Entries 85
Mean 226.1
Std Dev 0

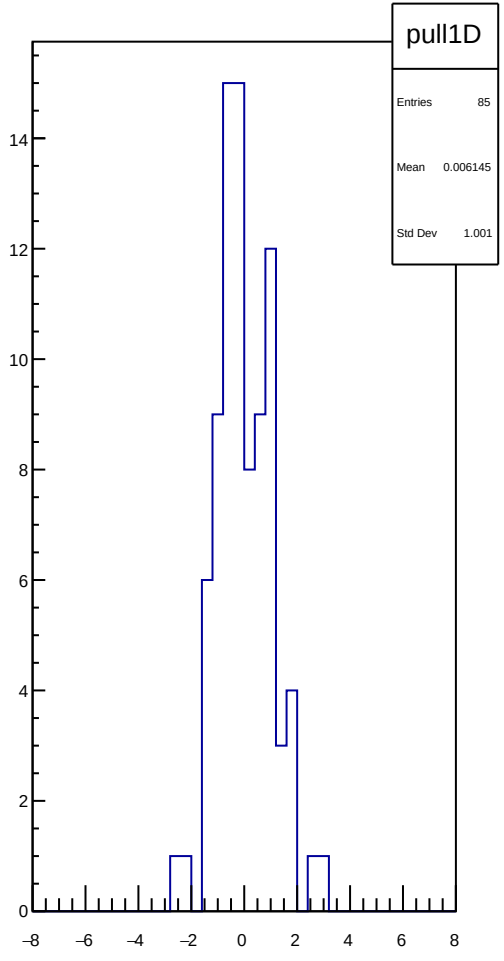

pull1D
Entries 85
Mean 0.006145
Std Dev 1.001

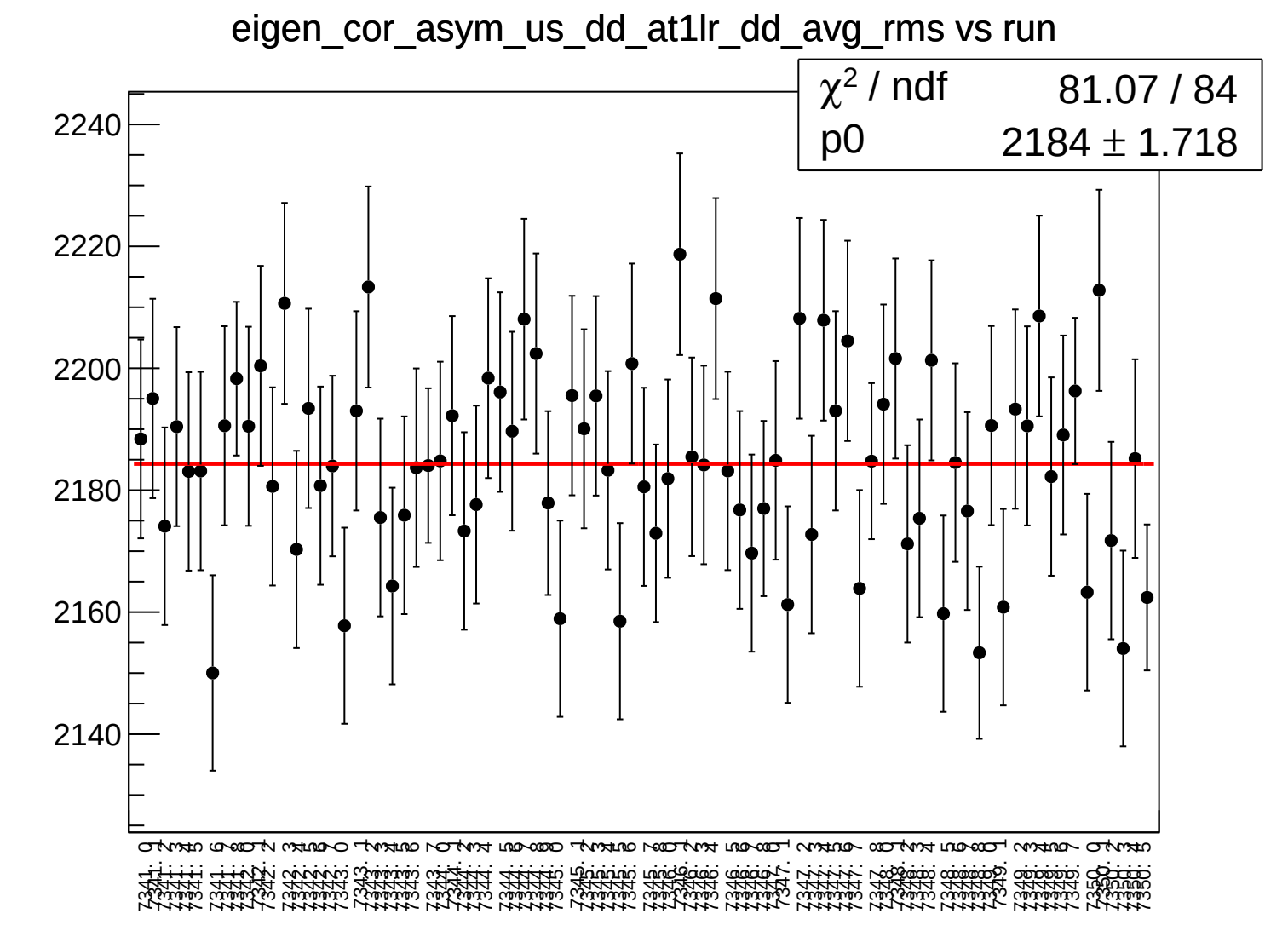

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 81.07 / 84
p0 2184 ± 1.718
2240
2220
2200
2180
2160
2140

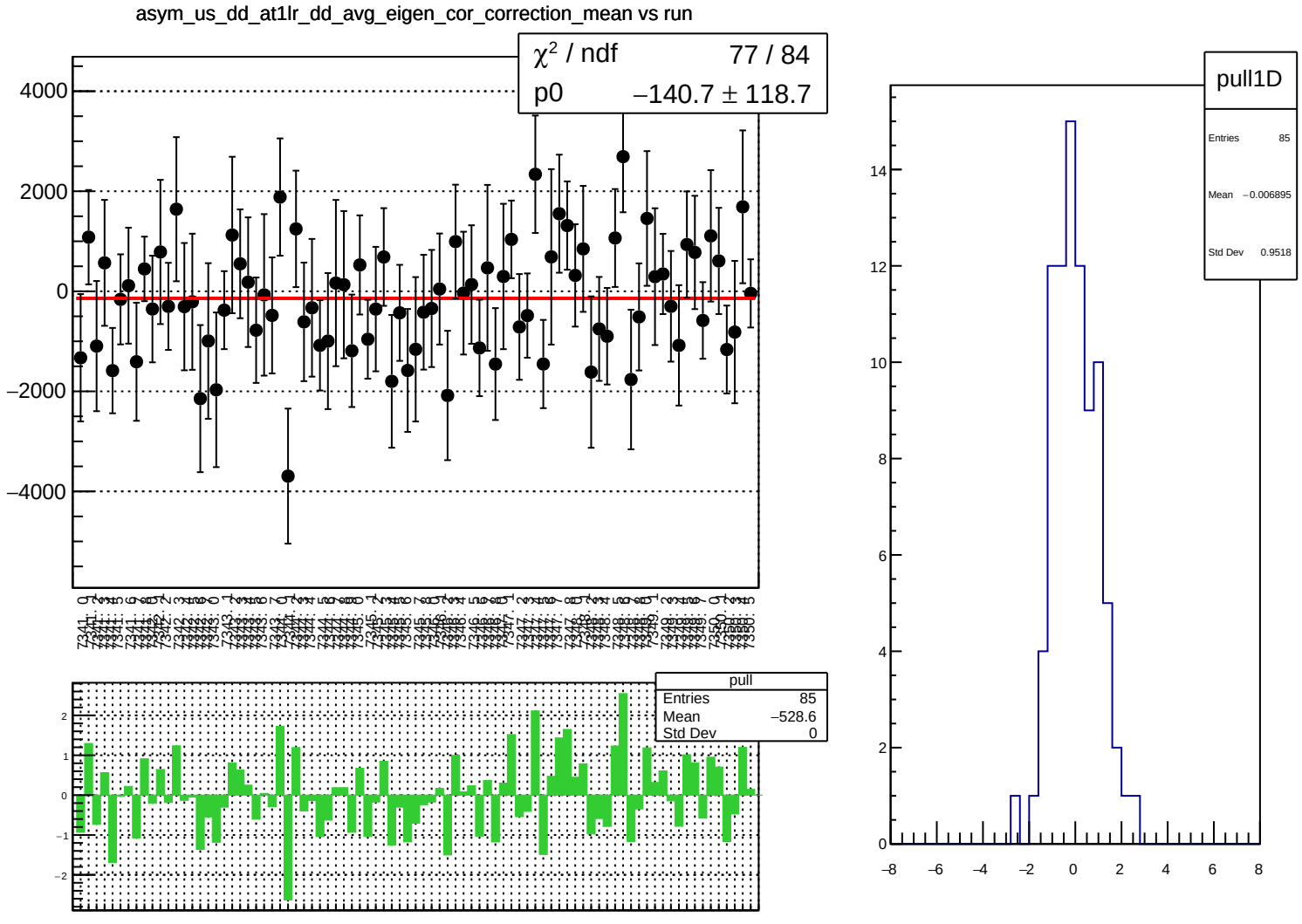

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 77 / 84
p0 −140.7 ± 118.7
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −528.6
Std Dev 0
pull1D
Entries 85
Mean −0.006895
Std Dev 0.9518

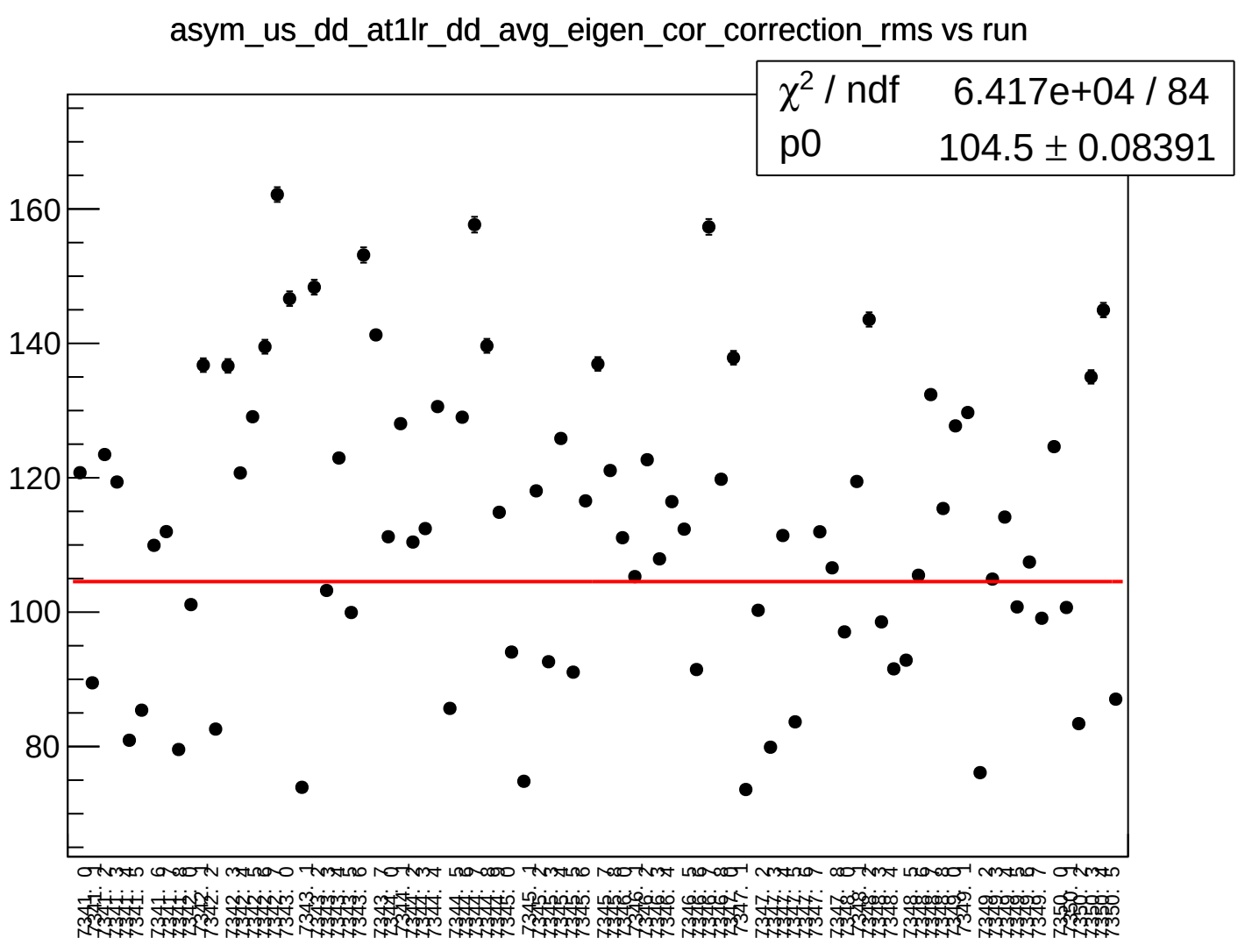

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 6.417e+04 / 84
p0 104.5 ± 0.08391
160
140
120
100
80

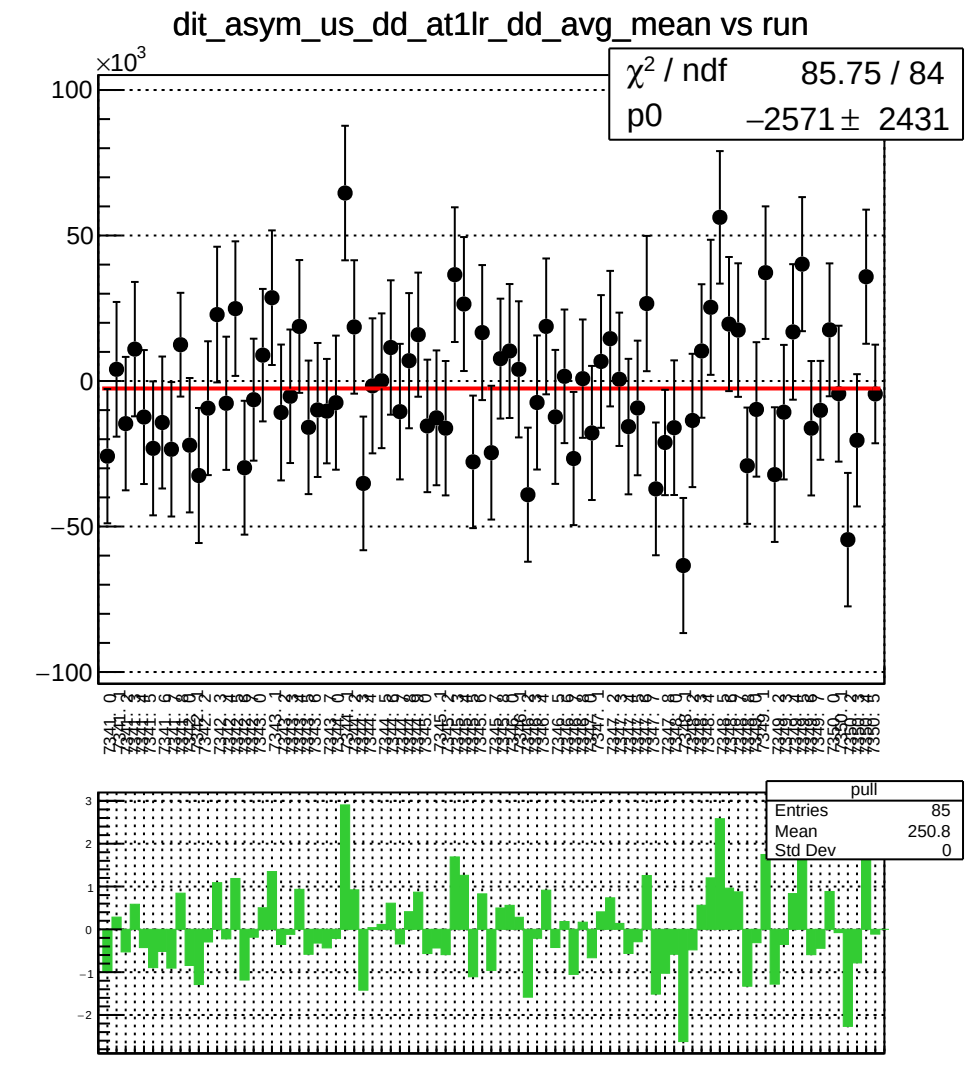

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 85.24 / 84
p0 −2552 ± 2430
pull
Entries 85
Mean 226.1
Std Dev 0

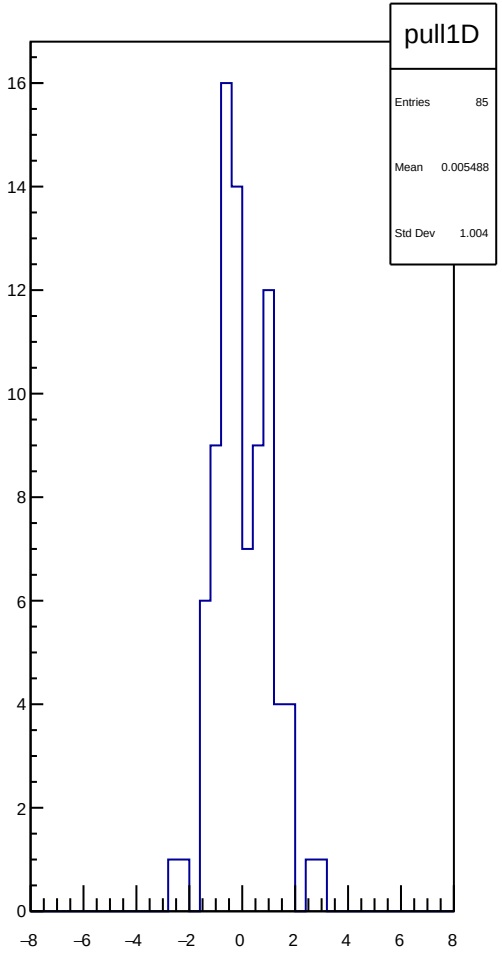

pull1D
Entries 85
Mean 0.006145
Std Dev 1.001

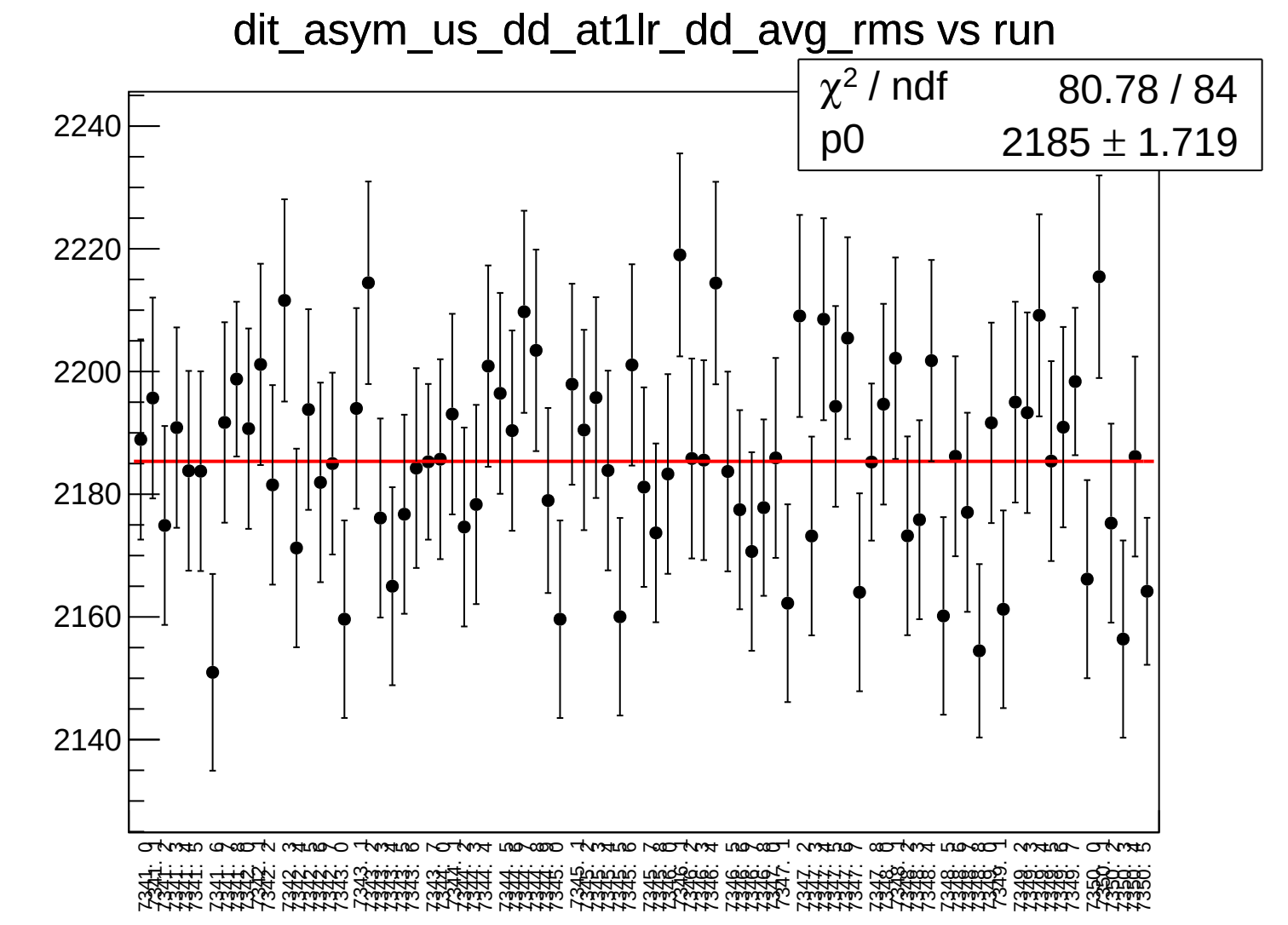

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 81.07 / 84
p0 2184 ± 1.718
2240
2220
2200
2180
2160
2140

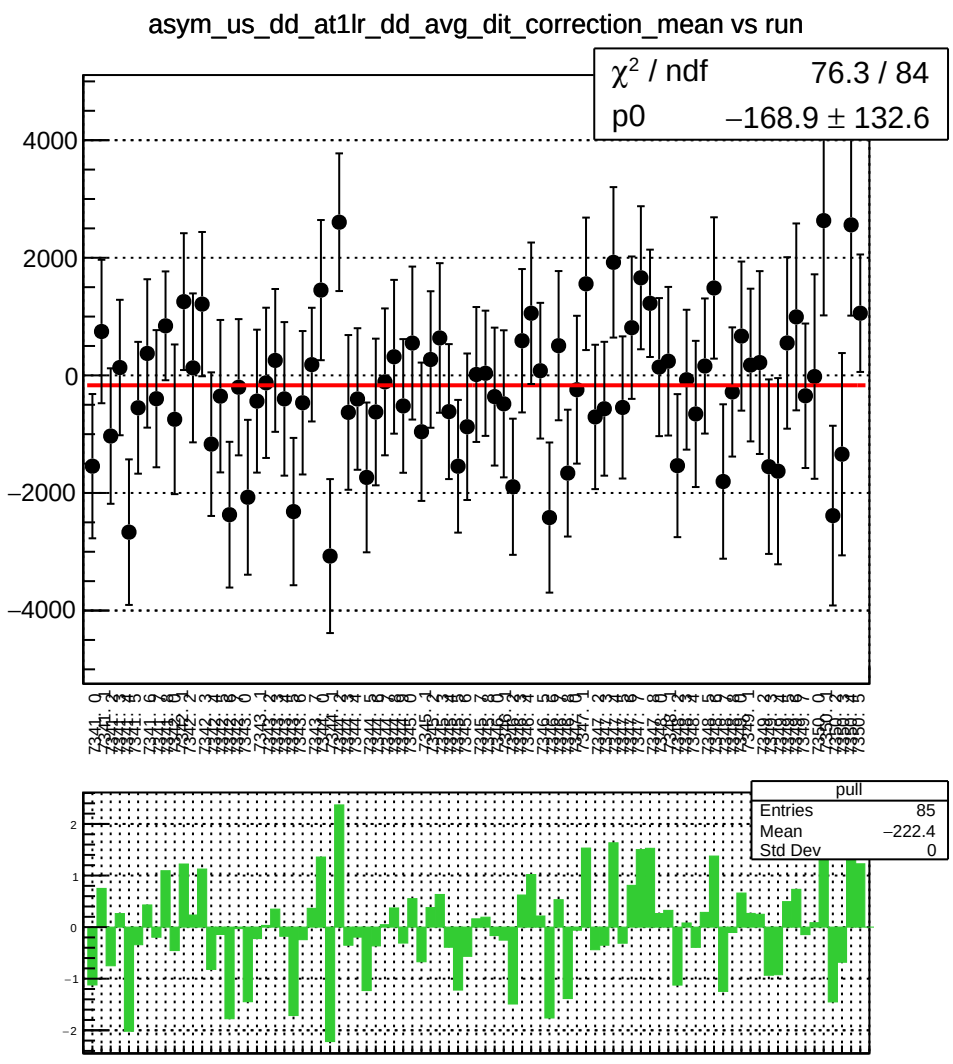

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 77 / 84
p0 −140.7 ± 118.7
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −528.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.006895
Std Dev 0.9518
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

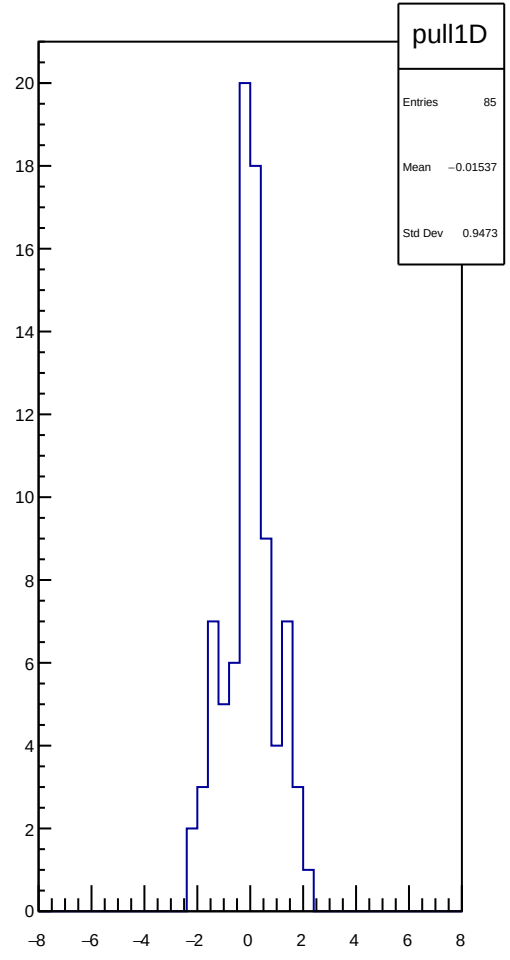

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.417e+04 / 84
p0 104.5 ± 0.08391
160
140
120
100
80

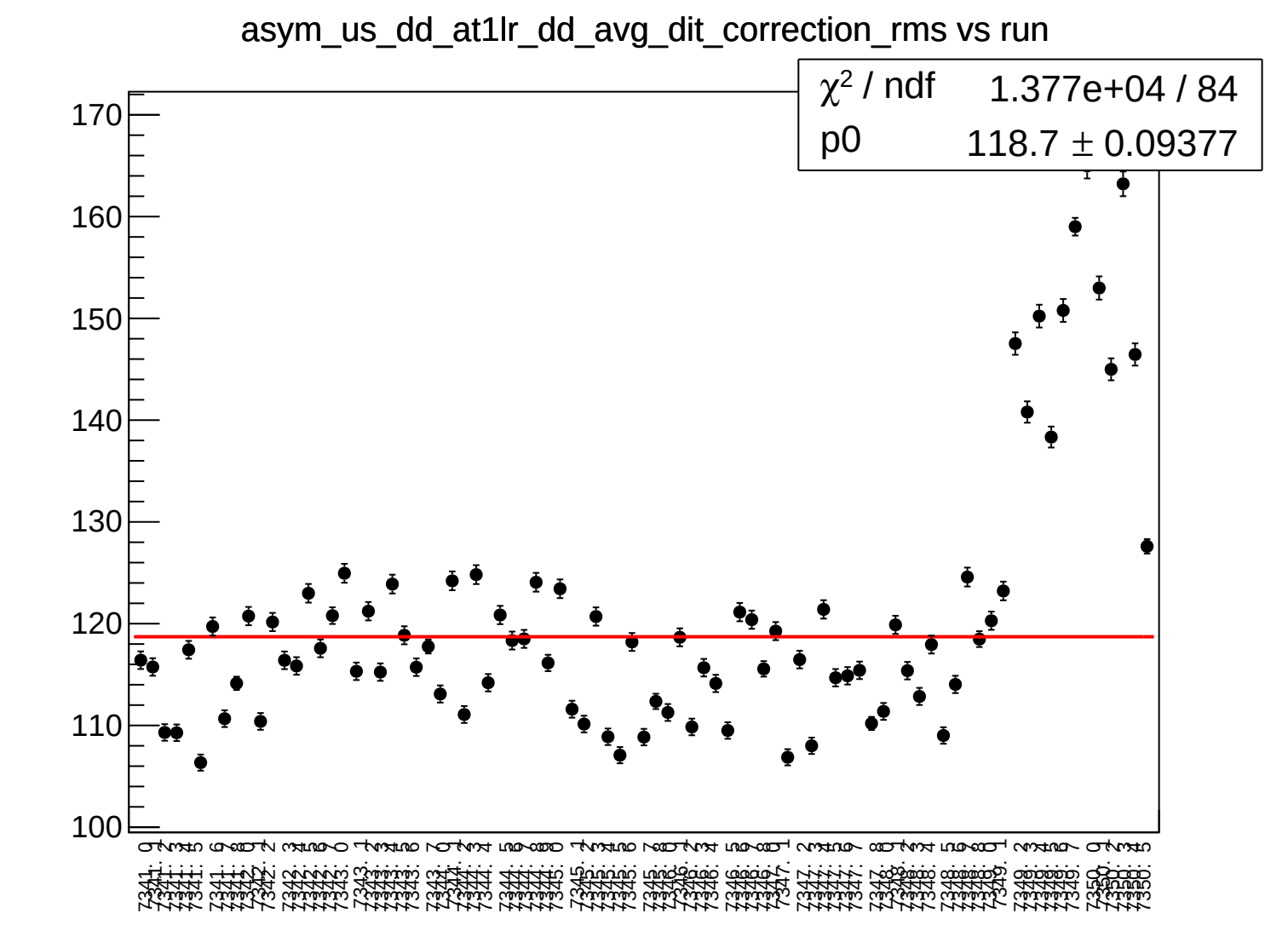

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 85.75 / 84
p0 −2571 ± 2431
pull
Entries 85
Mean 250.8
Std Dev 0

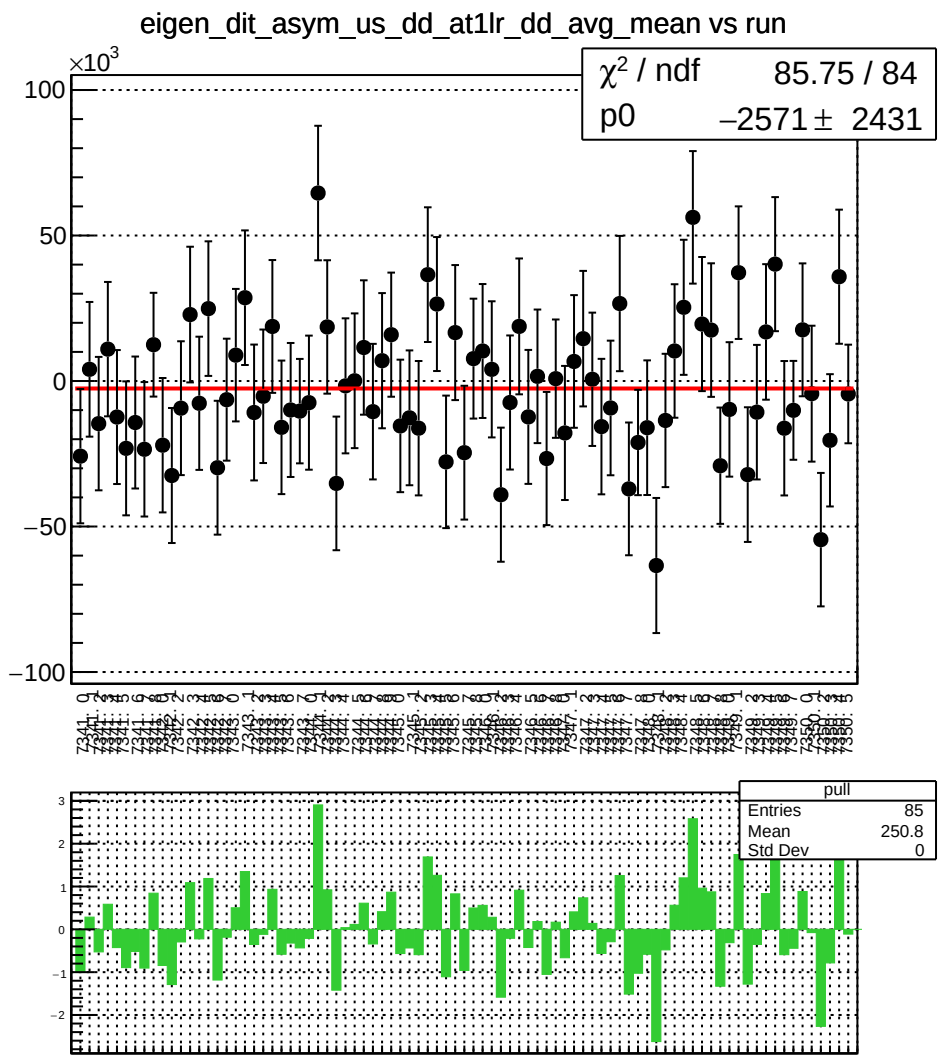

pull1D
Entries 85
Mean 0.005488
Std Dev 1.004

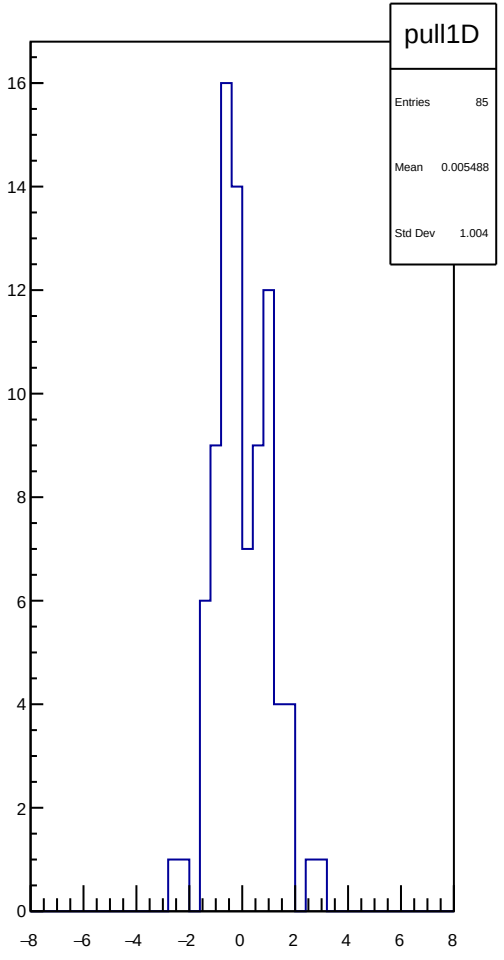

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 80.78 / 84
p0 2185 ± 1.719
2240
2220
2200
2180
2160
2140

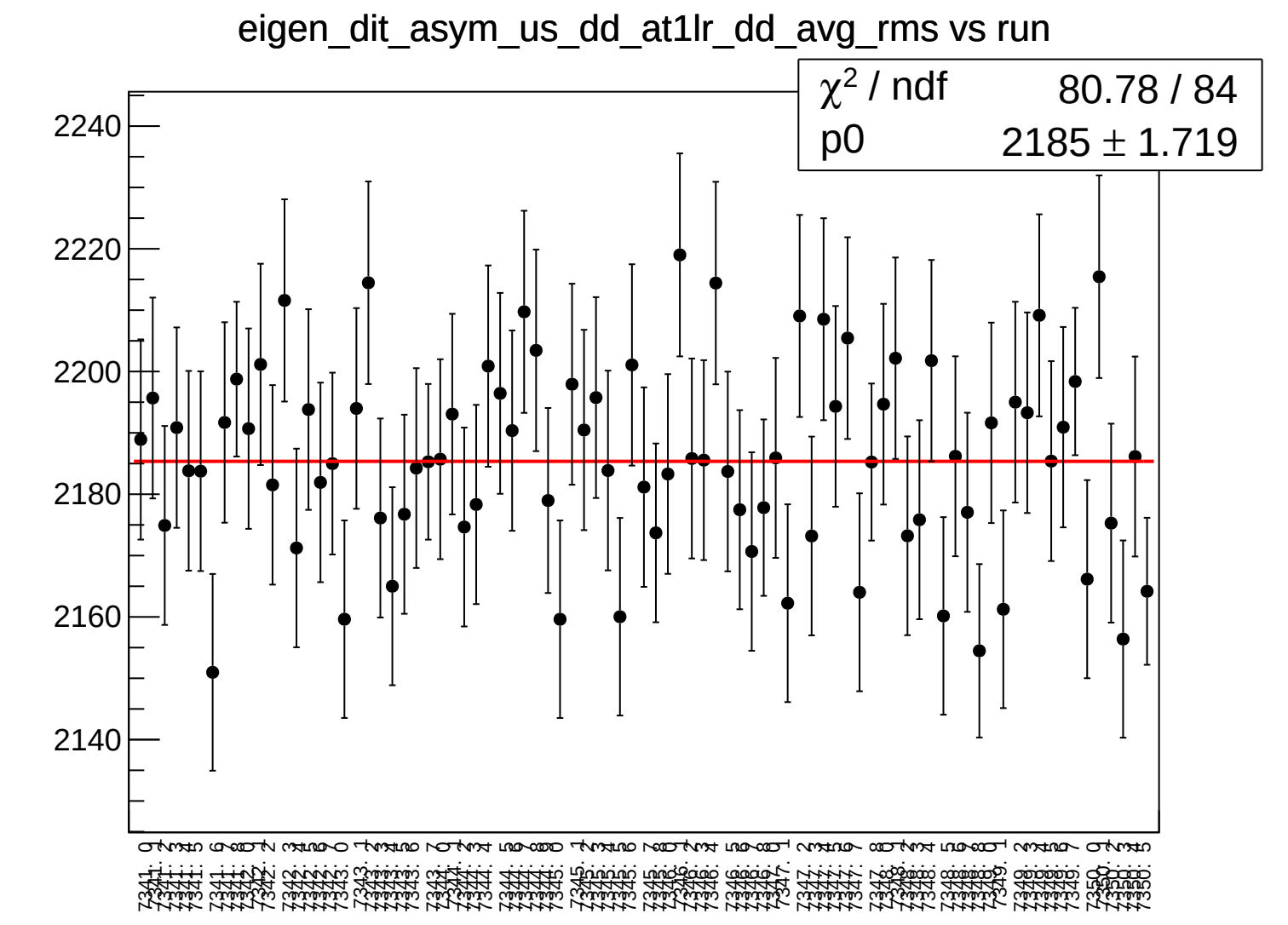

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 76.3 / 84
p0 −168.9 ± 132.6
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −222.4
Std Dev 0
2
1
0
−1
−2

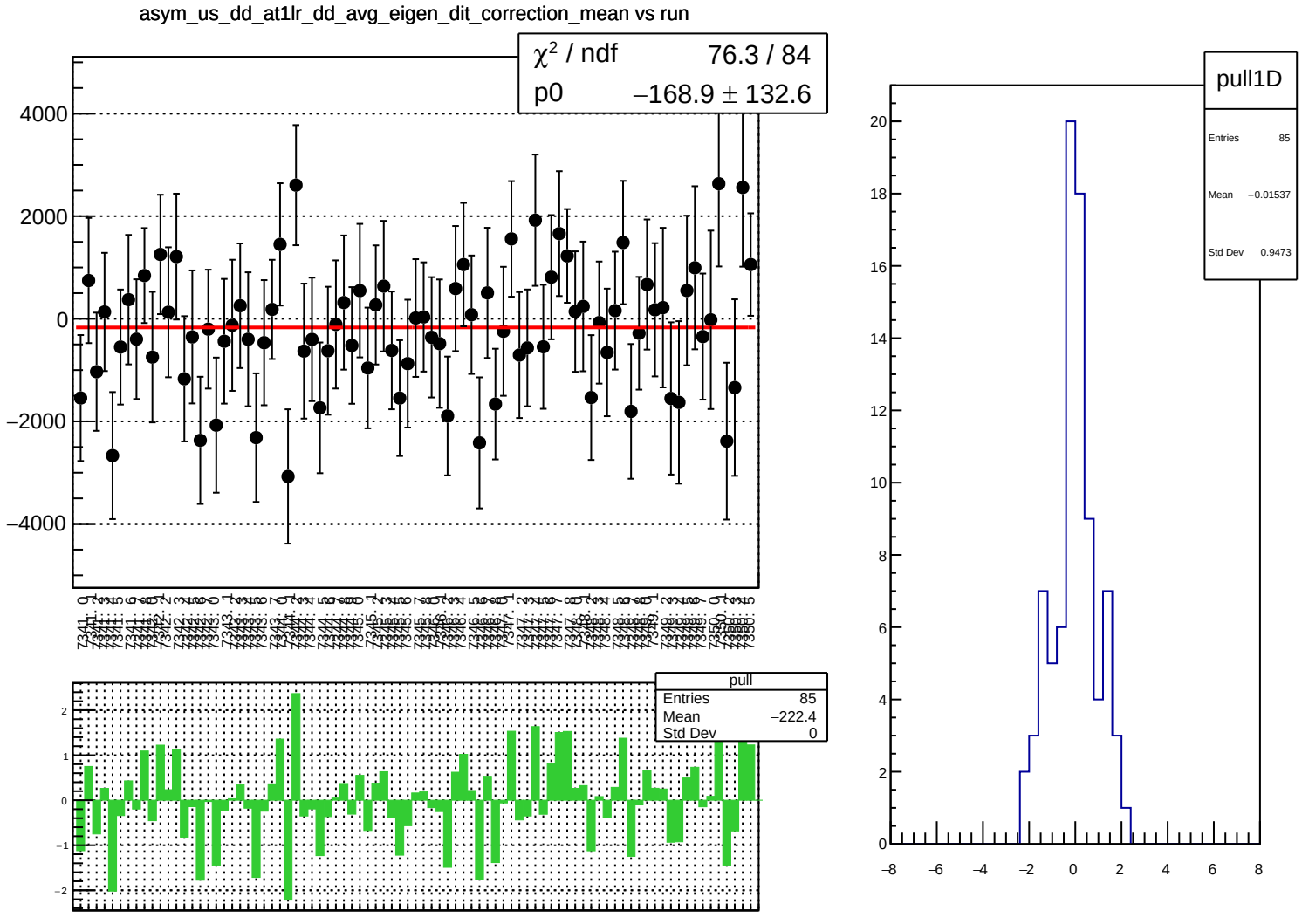

pull1D
Entries 85
Mean −0.01537
Std Dev 0.9473
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

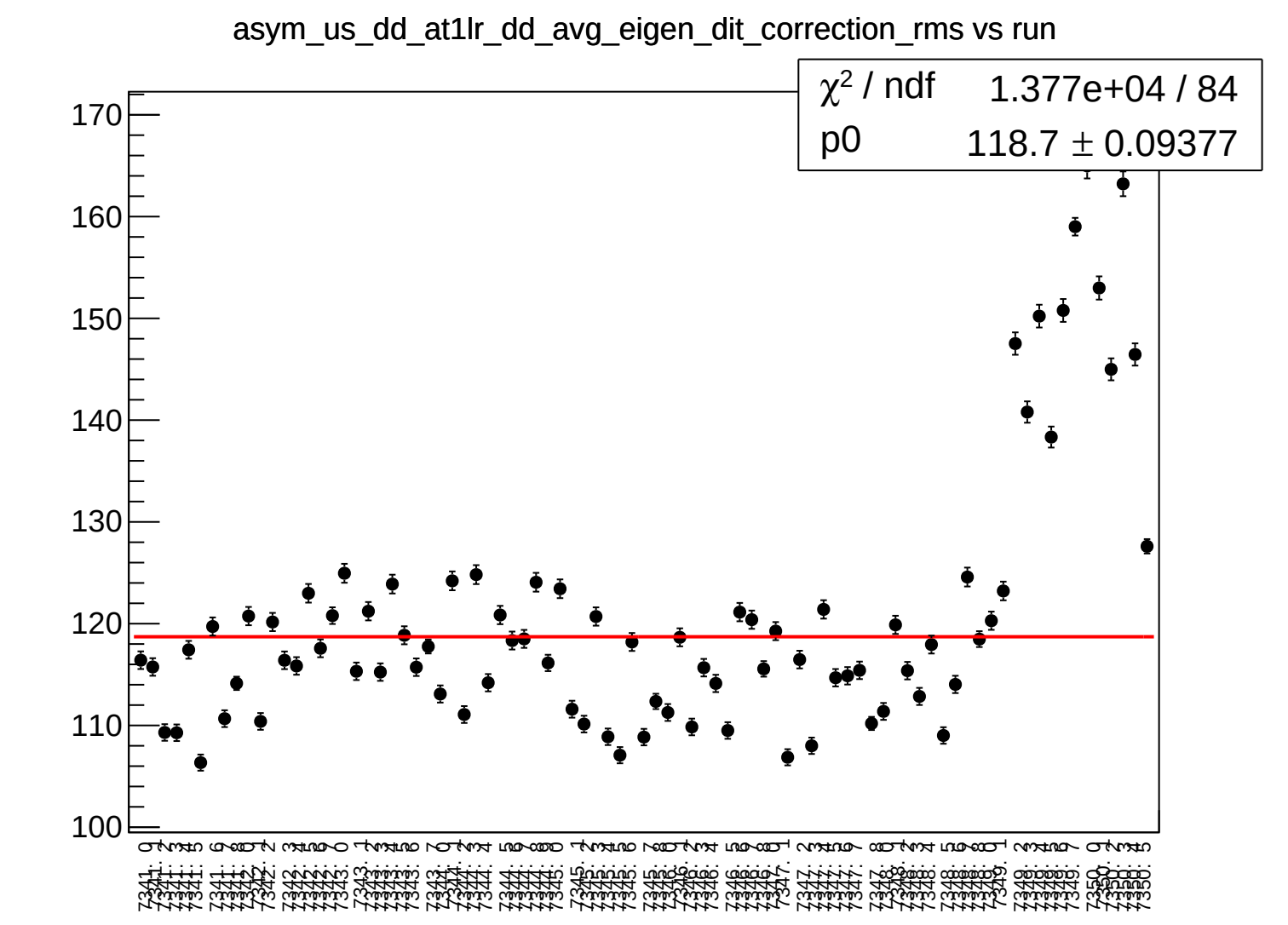

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.377e+04 / 84
p0 118.7 ± 0.09377
170
160
150
140
130
120
110
100

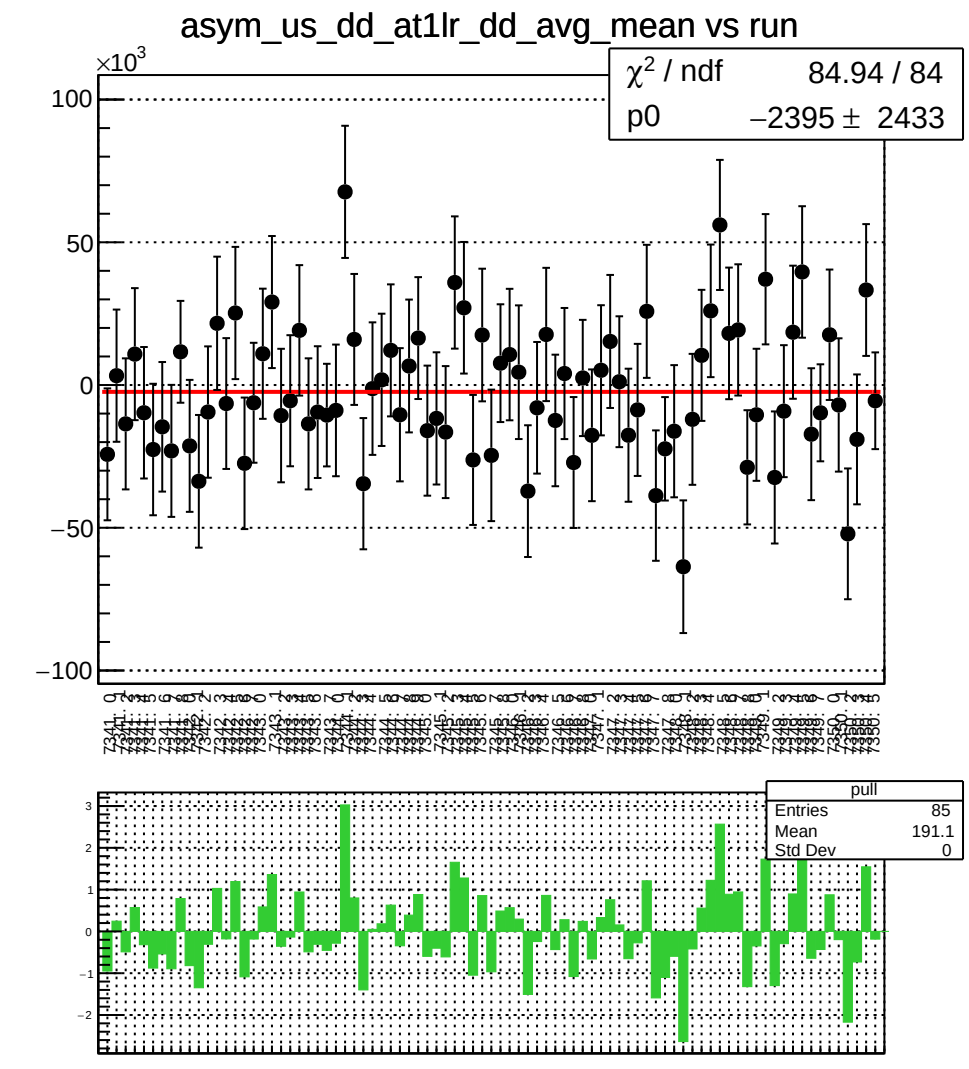

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 85.75 / 84
p0 −2571 ± 2431
pull
Entries 85
Mean 250.8
Std Dev 0

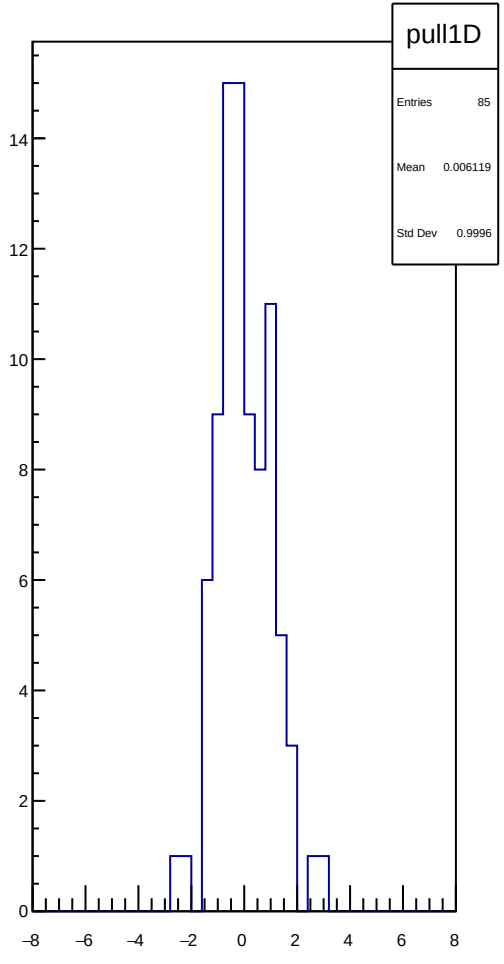

pull1D
Entries 85
Mean 0.005488
Std Dev 1.004

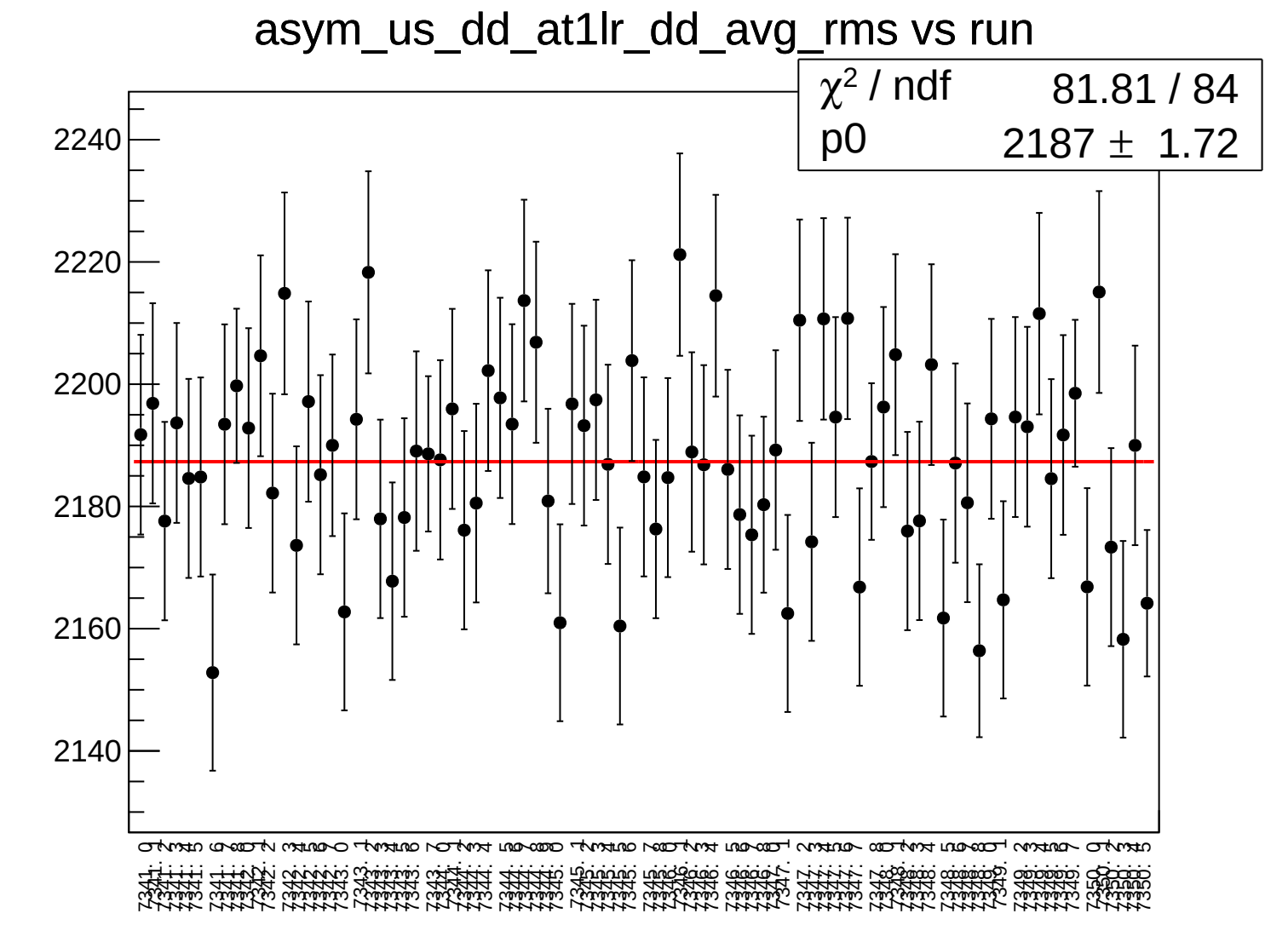

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 80.78 / 84
p0 2185 ± 1.719
2240
2220
2200
2180
2160
2140

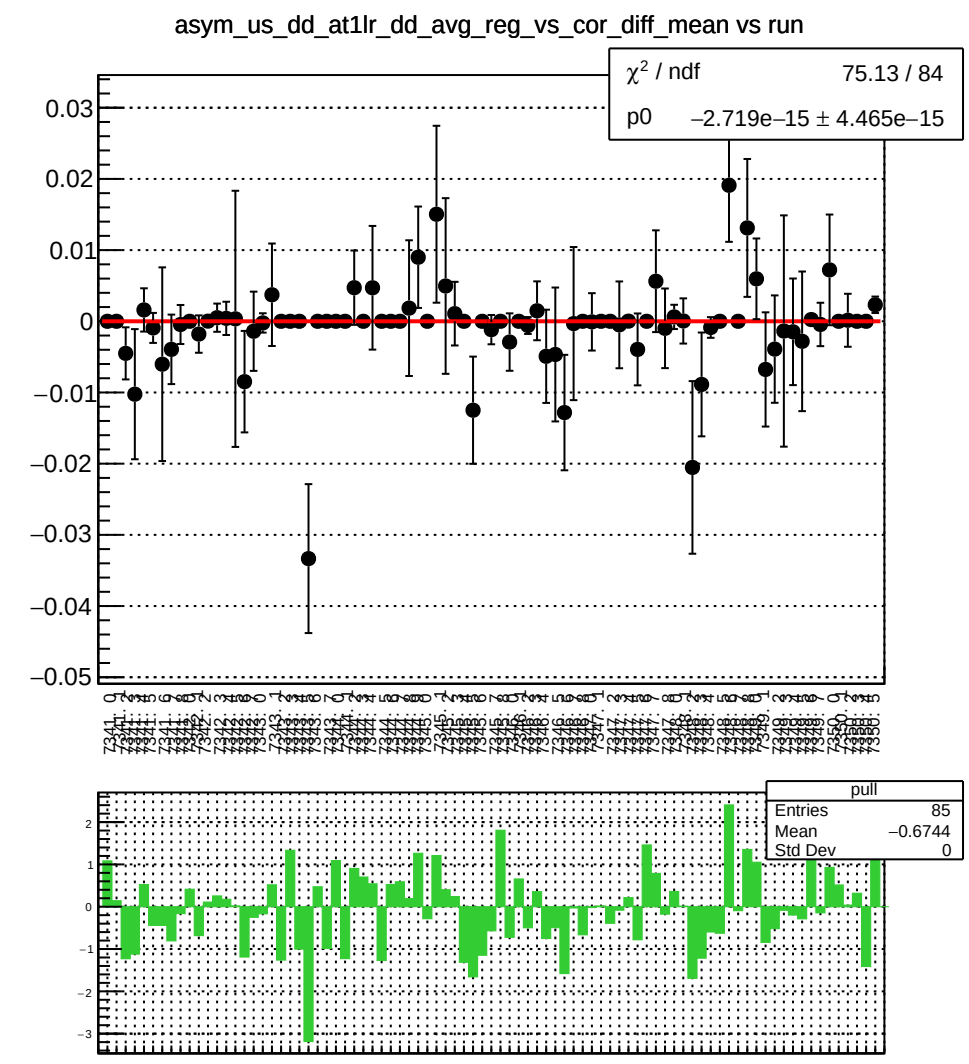

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.3 / 84
p0 −168.9 ± 132.6
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −222.4
Std Dev 0
pull1D
Entries 85
Mean −0.01537
Std Dev 0.9473

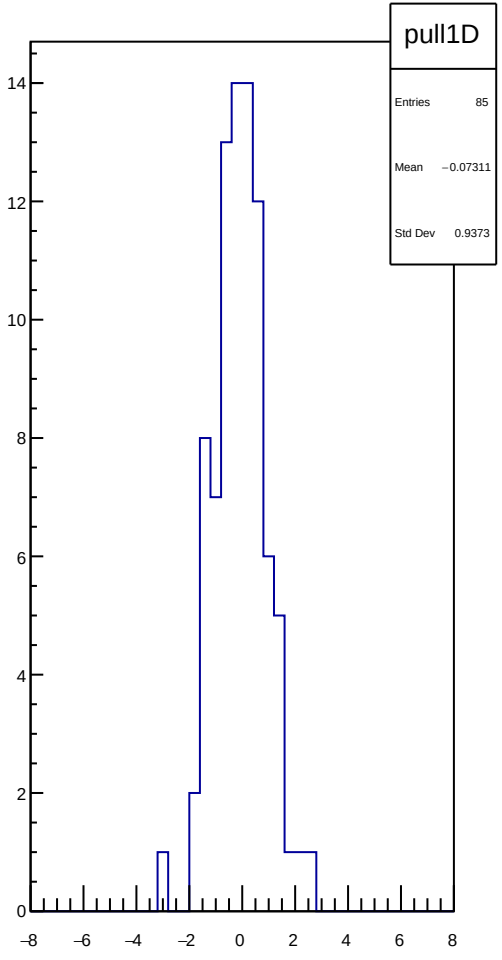

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.377e+04 / 84
p0 118.7 ± 0.09377
170
160
150
140
130
120
110
100

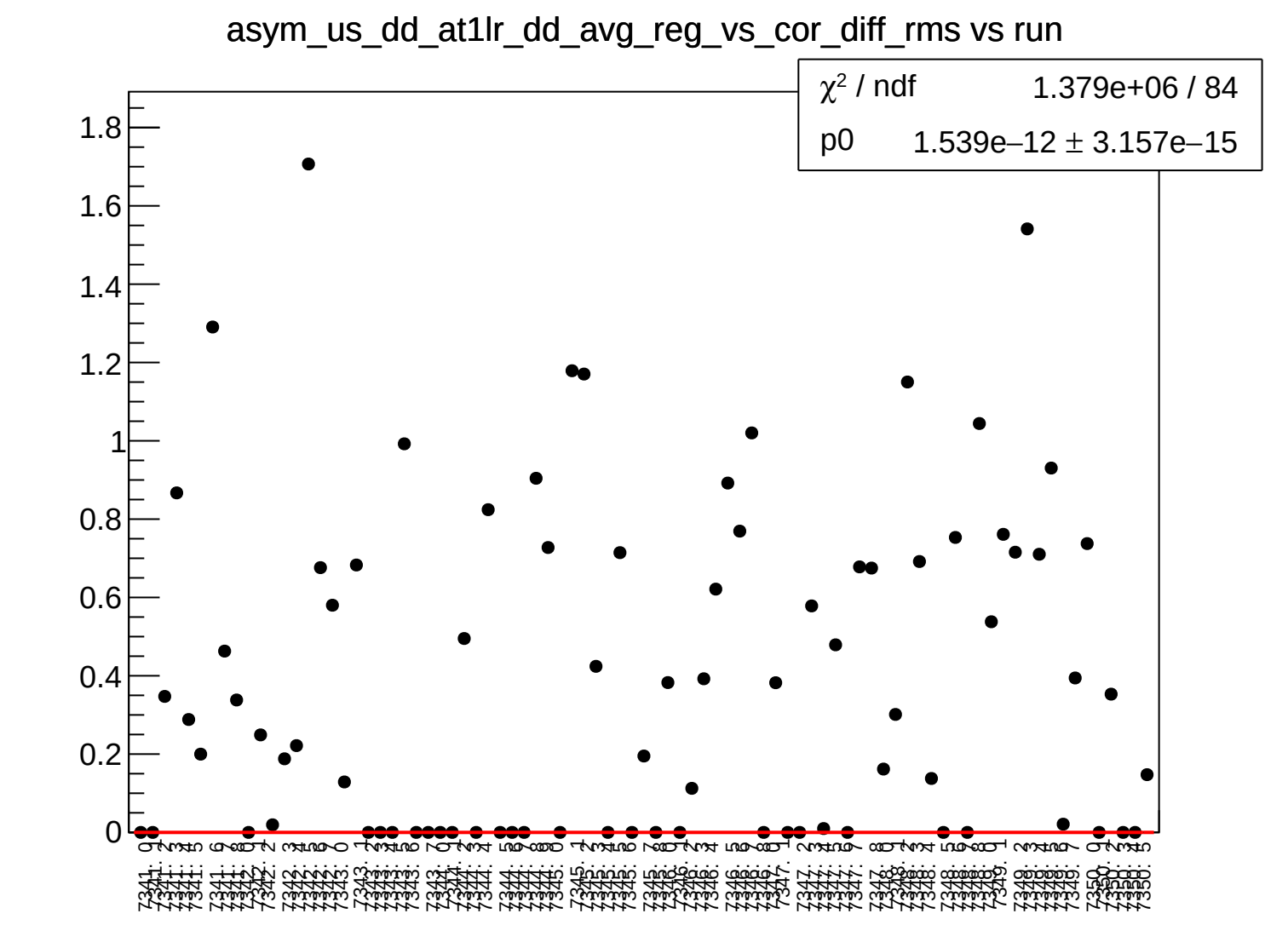

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 84.94 / 84
p0 −2395 ± 2433
100
50
0
−50
−100
pull
Entries 85
Mean 191.1
Std Dev 0
3
2
1
0
−1
−2

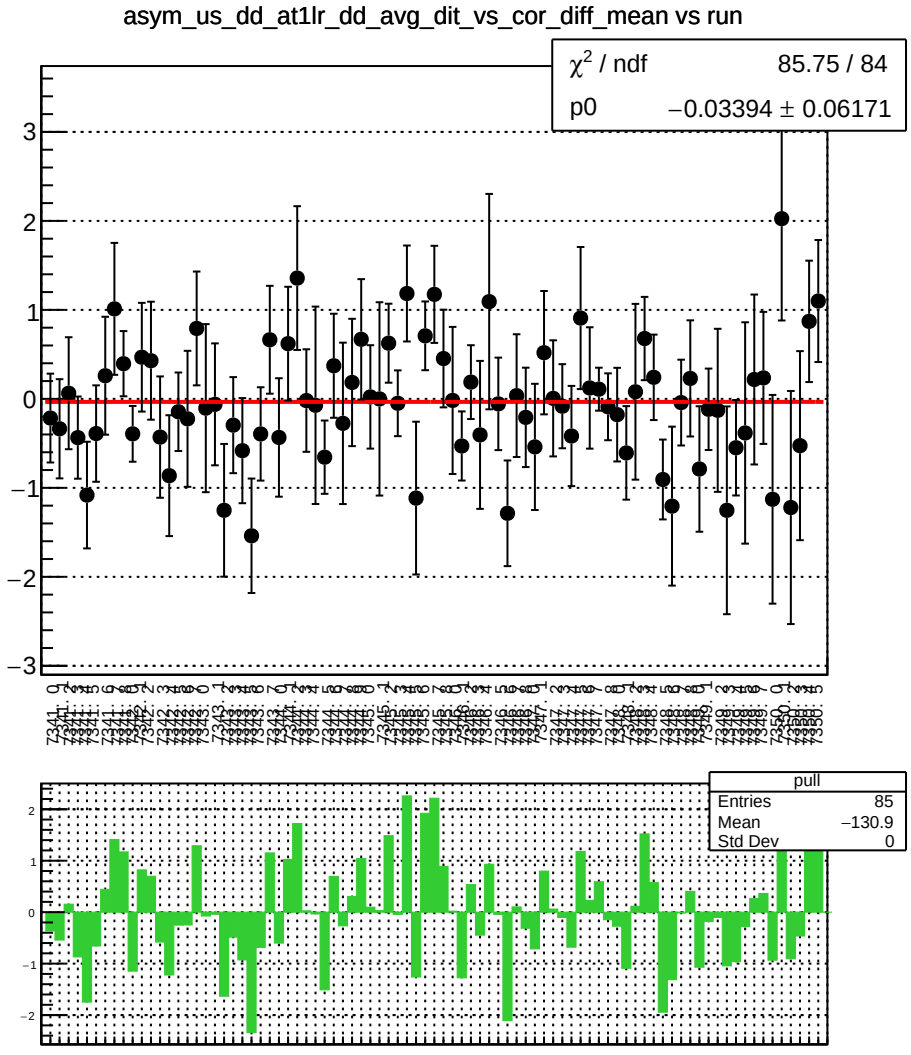

pull1D
Entries 85
Mean 0.006119
Std Dev 0.9996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

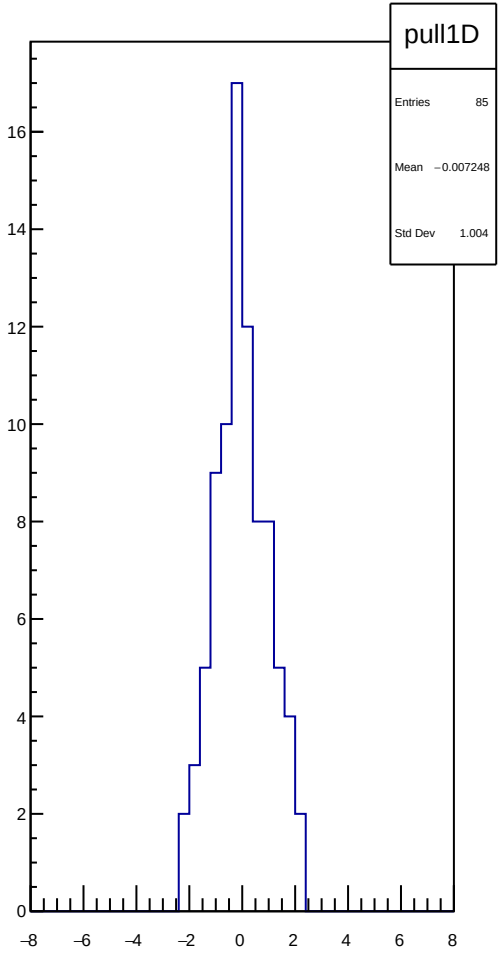

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 81.81 / 84
p0 2187 ± 1.72
2240
2220
2200
2180
2160
2140

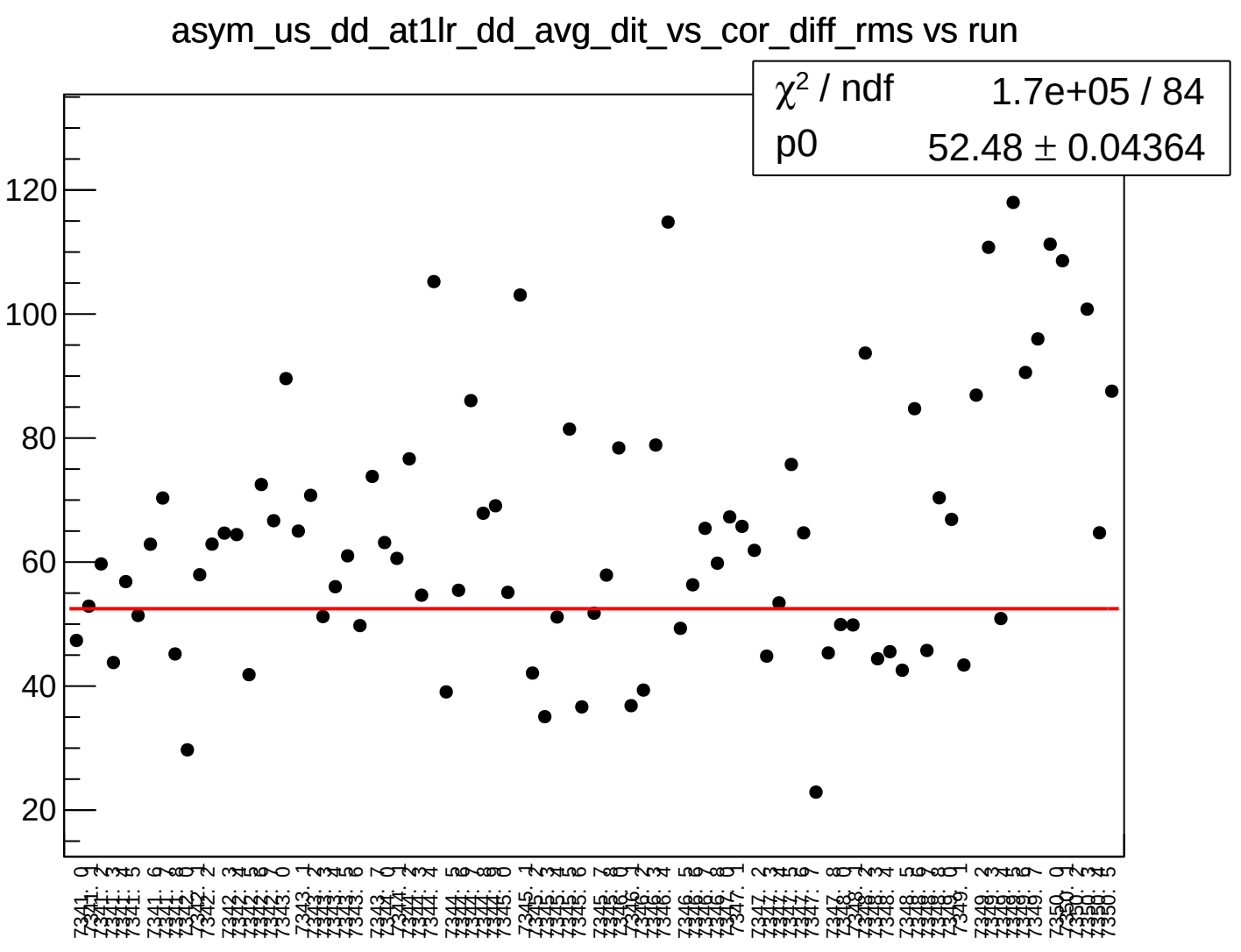

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.13 / 84
p0 −2.719e−15 ± 4.465e−15
pull
Entries 85
Mean −0.6744
Std Dev 0

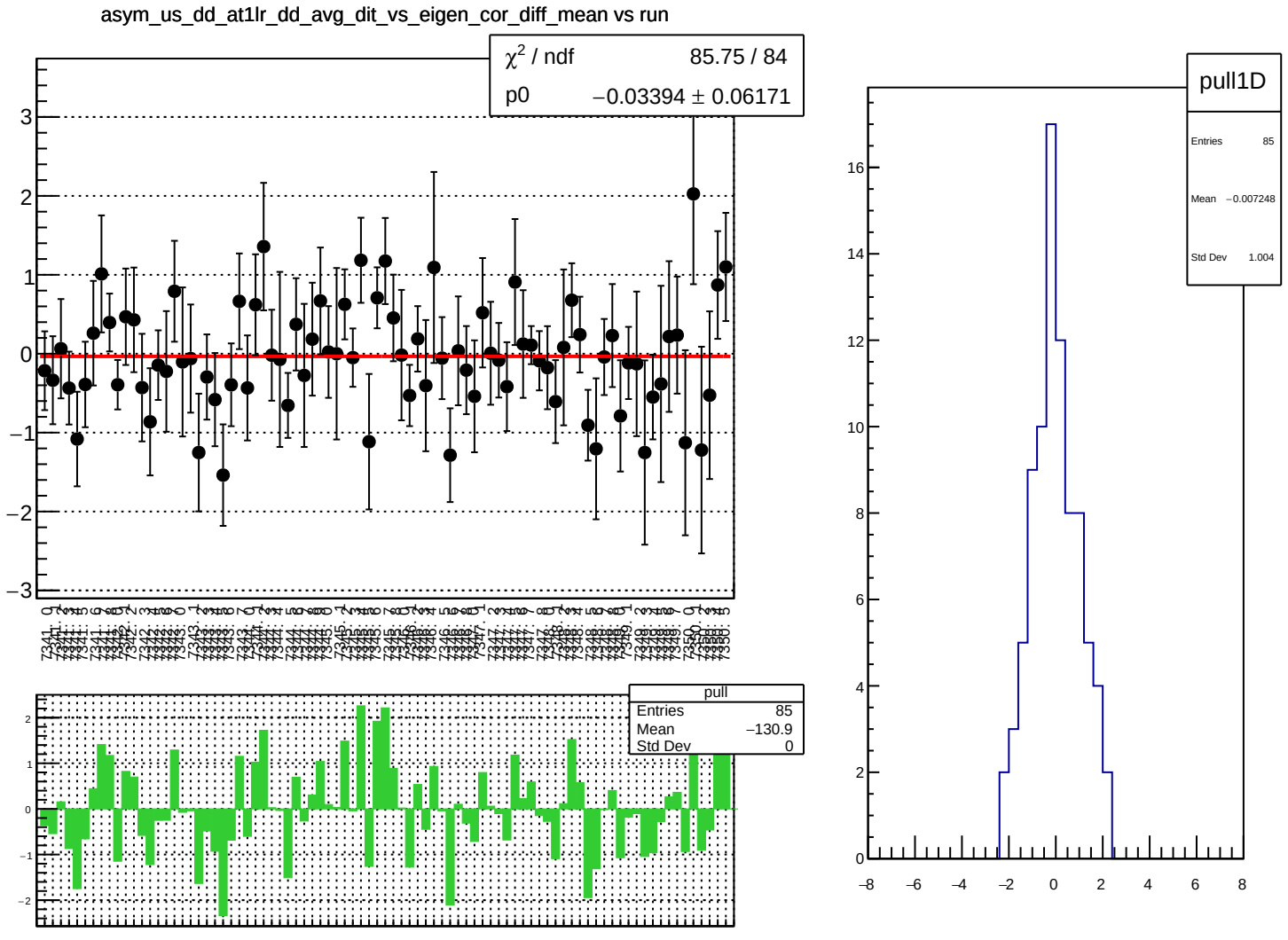

pull1D
Entries 85
Mean −0.07311
Std Dev 0.9373

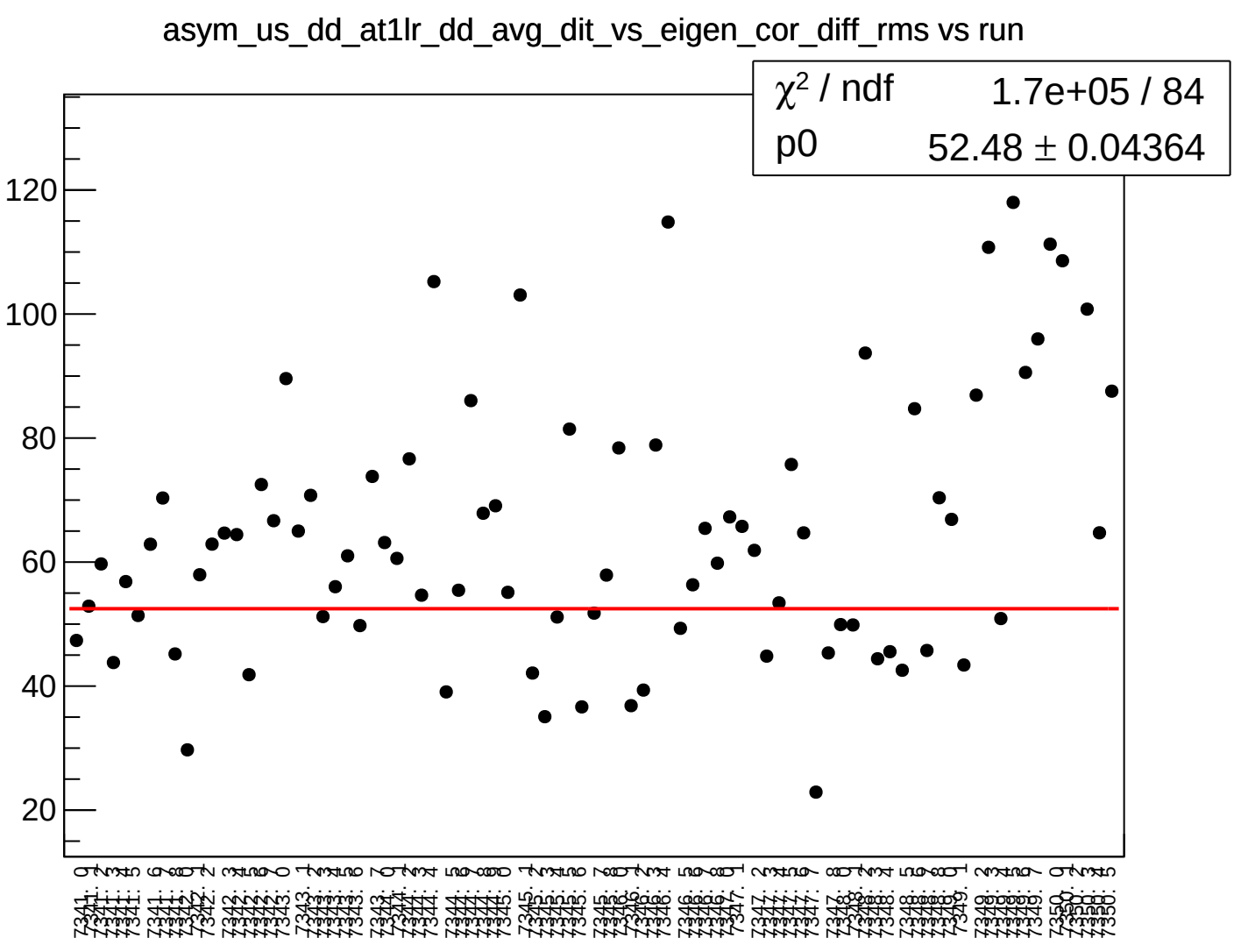

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.379e+06 / 84
p0 1.539e−12 ± 3.157e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

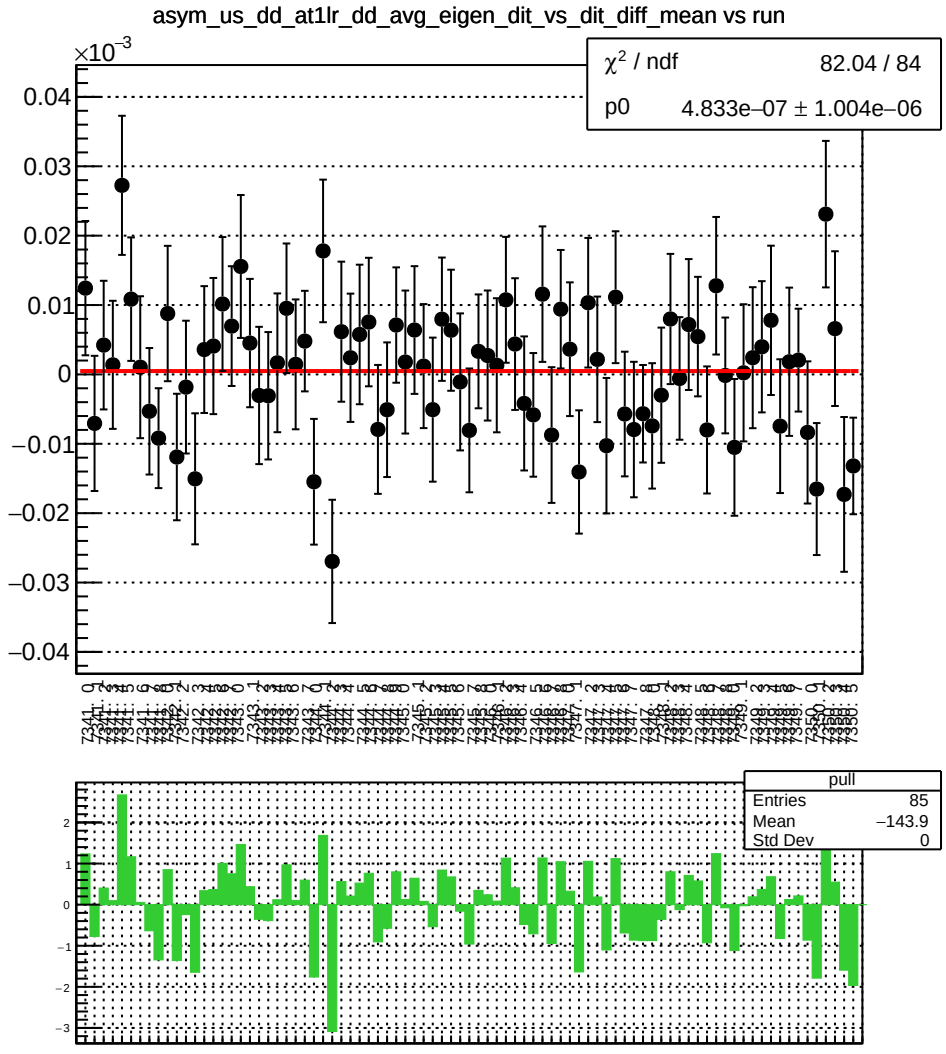

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.75 / 84
p0 −0.03394 ± 0.06171
pull
Entries 85
Mean −130.9
Std Dev 0

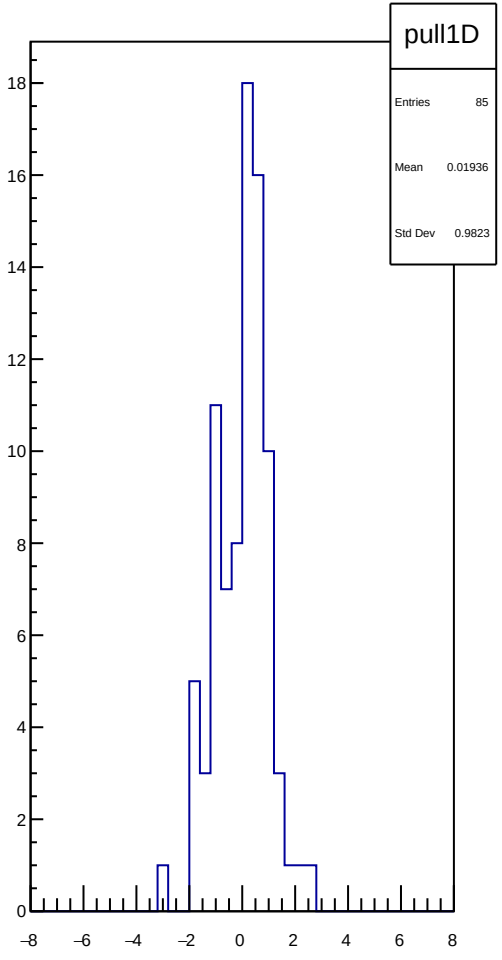

pull1D
Entries 85
Mean −0.007248
Std Dev 1.004

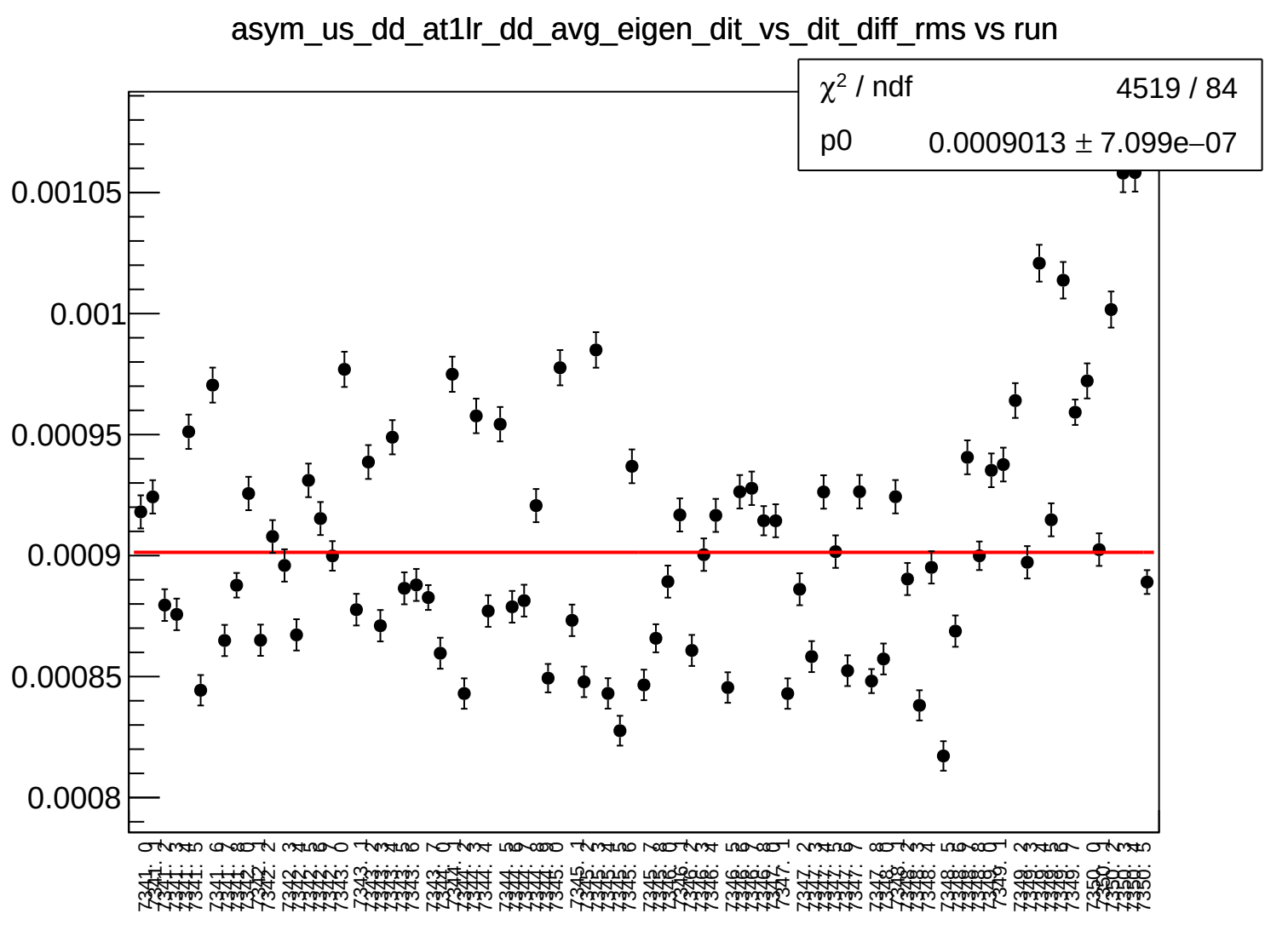

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.7e+05 / 84
p0 52.48 ± 0.04364
120
100
80
60
40
20

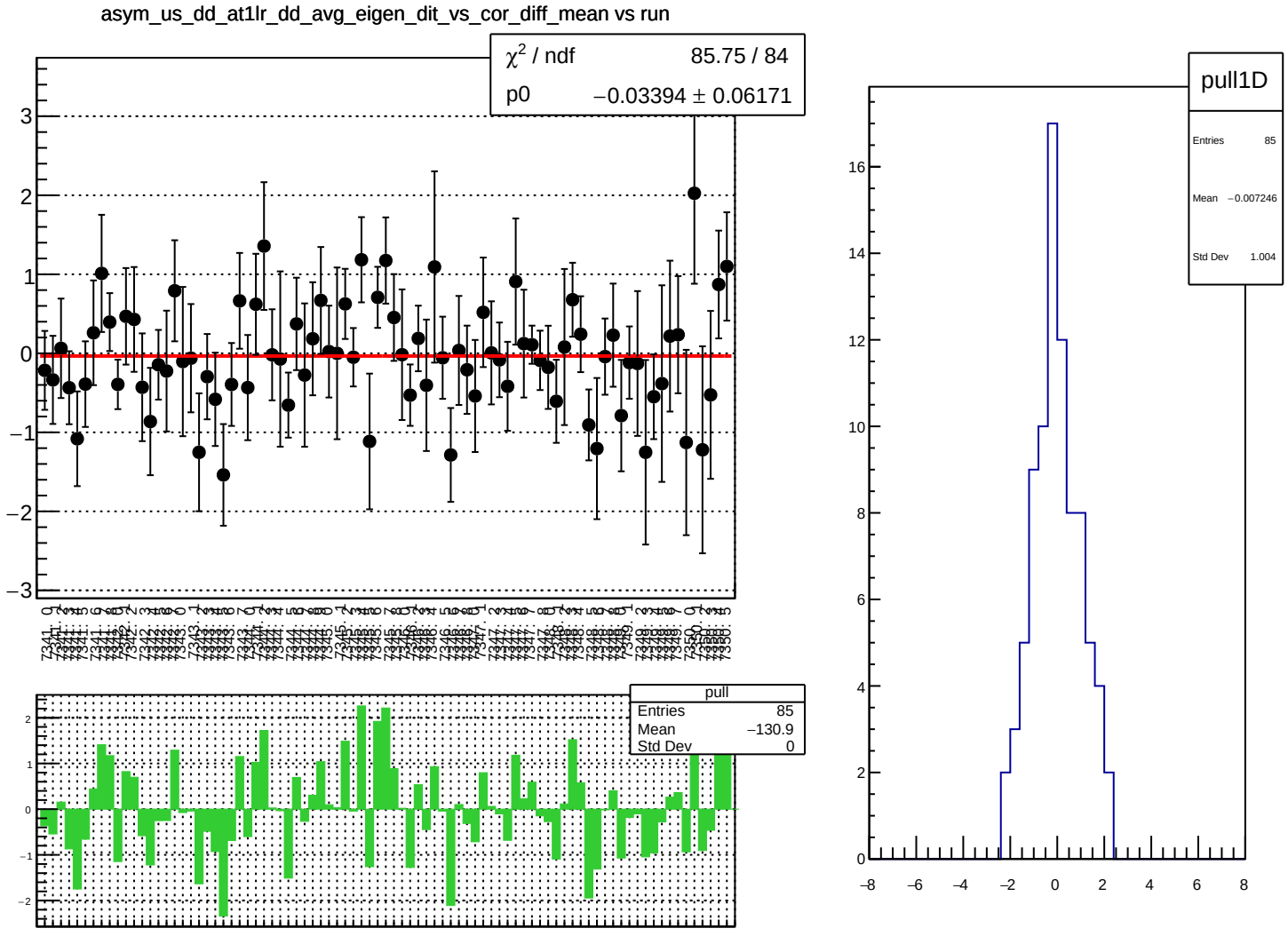

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.75 / 84
p0 −0.03394 ± 0.06171
pull
Entries 85
Mean −130.9
Std Dev 0
pull1D
Entries 85
Mean −0.007248
Std Dev 1.004

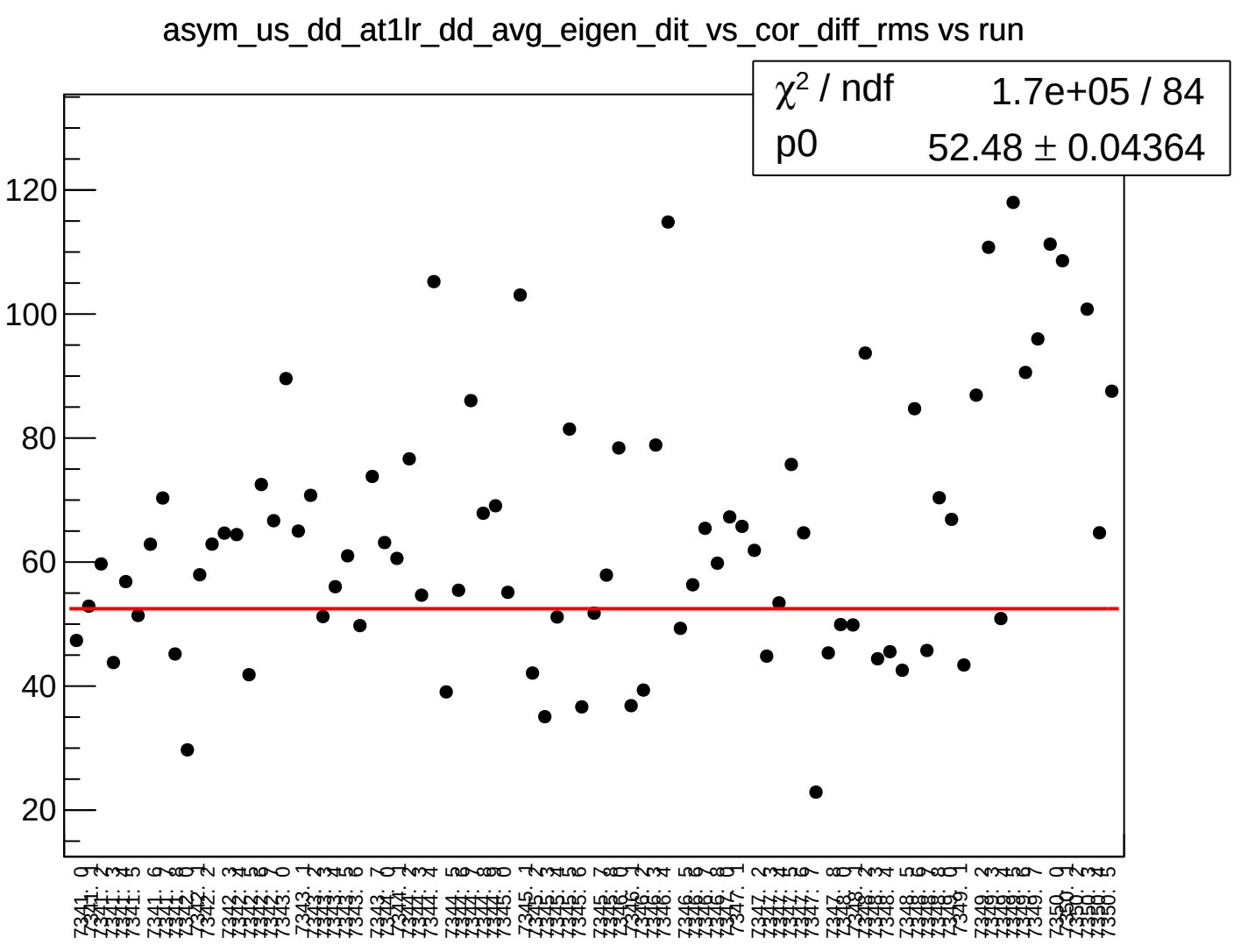

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.7e+05 / 84
p0 52.48 ± 0.04364
120
100
80
60
40
20

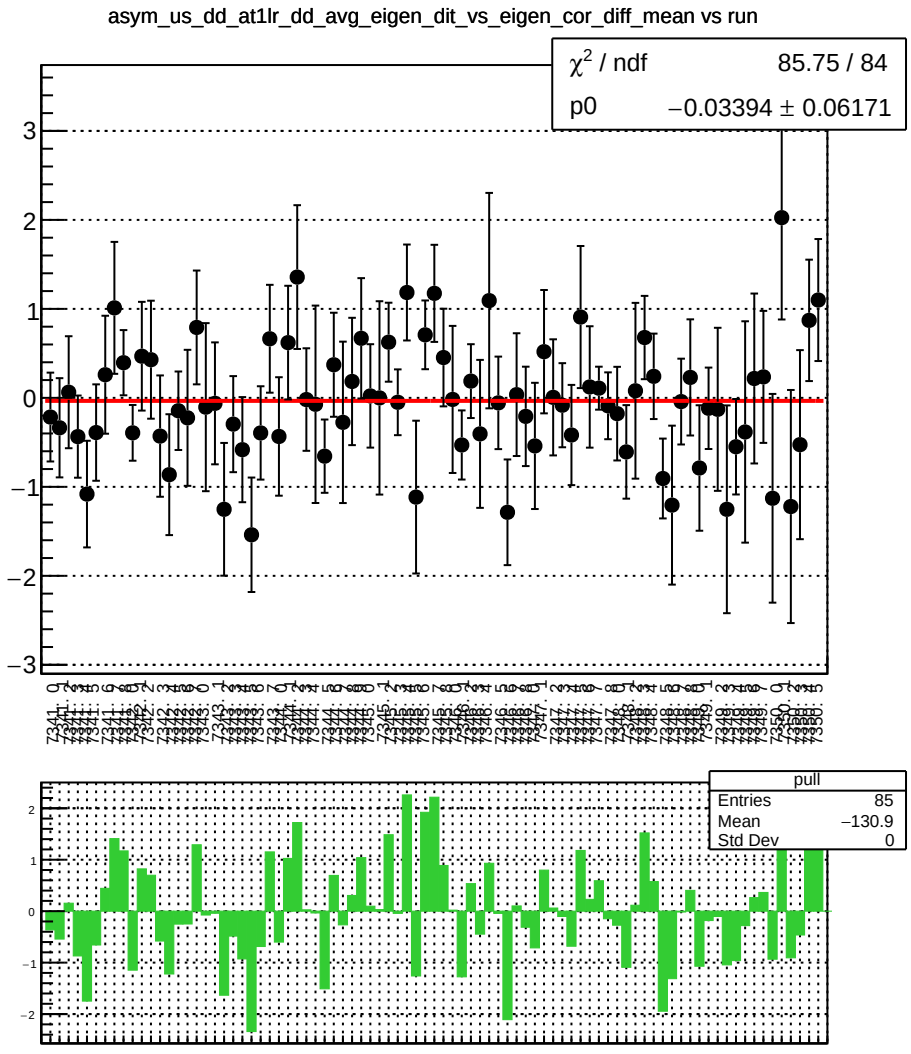

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.04 / 84
p0 4.833e−07 ± 1.004e−06
pull
Entries 85
Mean −143.9
Std Dev 0

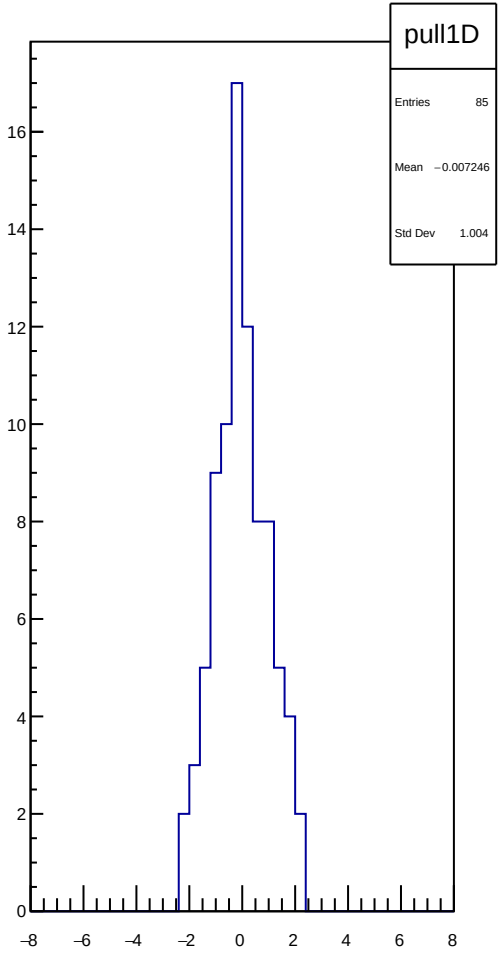

pull1D
Entries 85
Mean 0.01936
Std Dev 0.9823

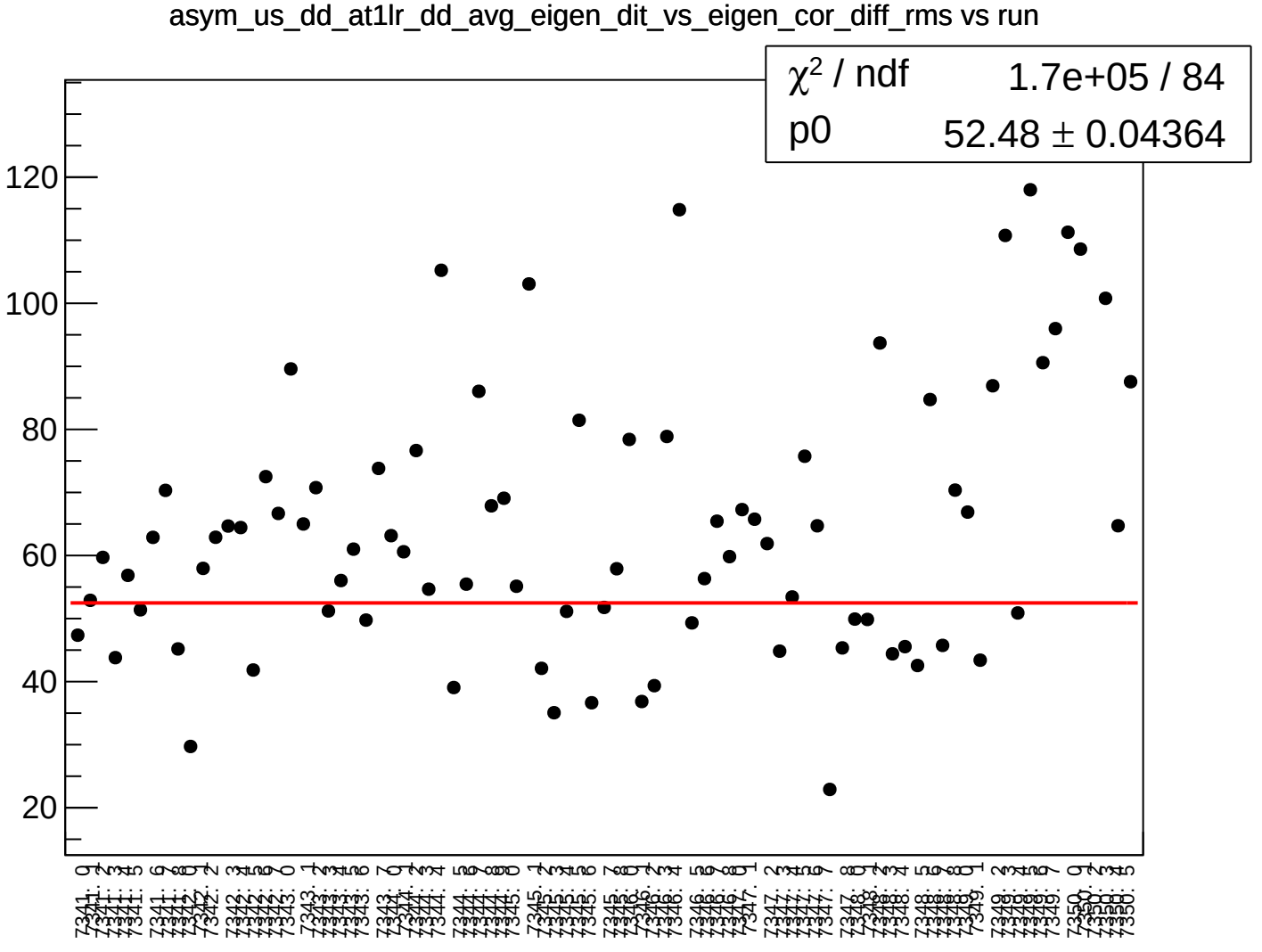

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4519 / 84
p0 0.0009013 ± 7.099e−07
0.00105
0.001
0.00095
0.0009
0.00085
0.0008

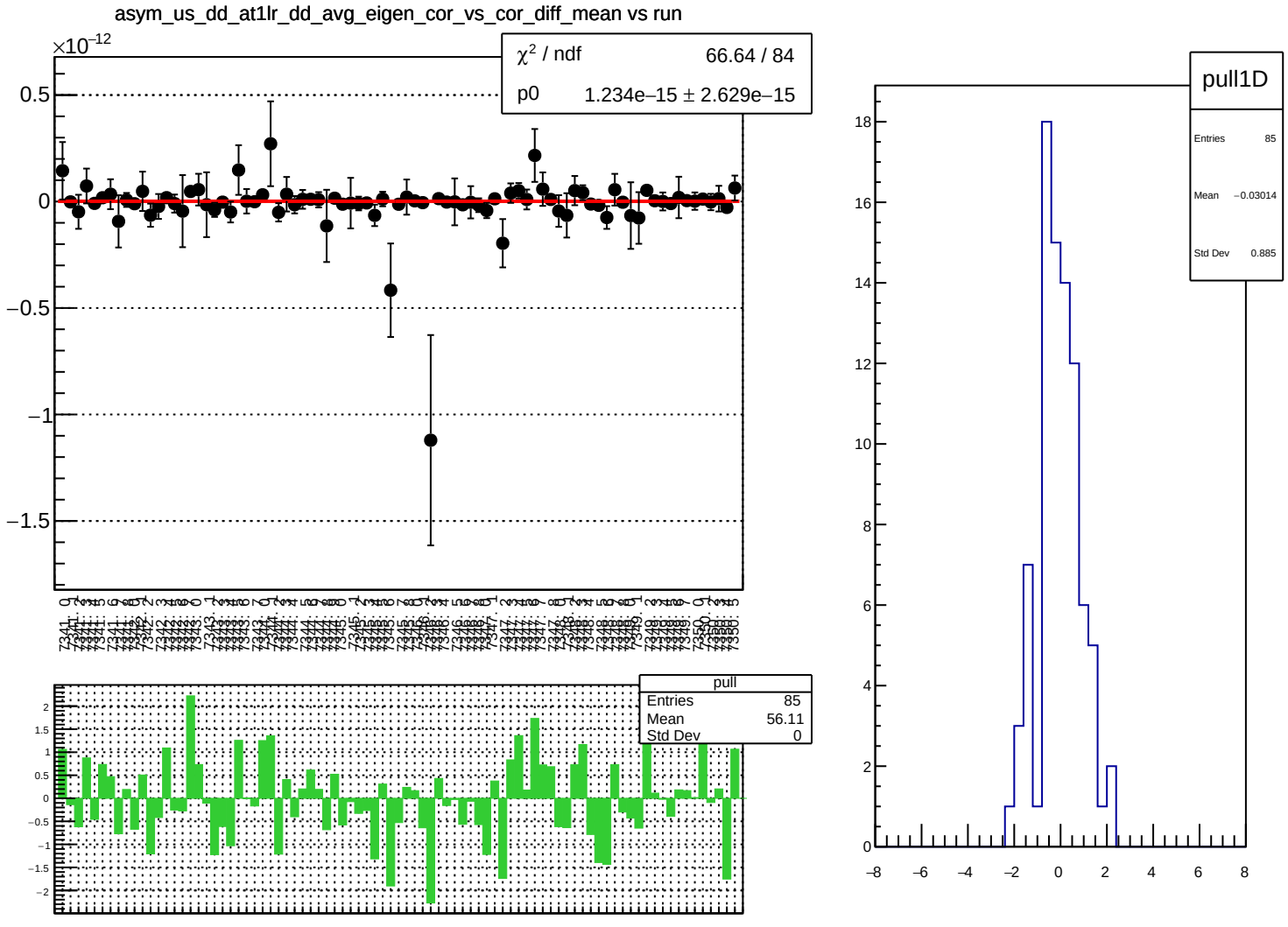

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.75 / 84
p0 −0.03394 ± 0.06171
pull
Entries 85
Mean −130.9
Std Dev 0
pull1D
Entries 85
Mean −0.007246
Std Dev 1.004

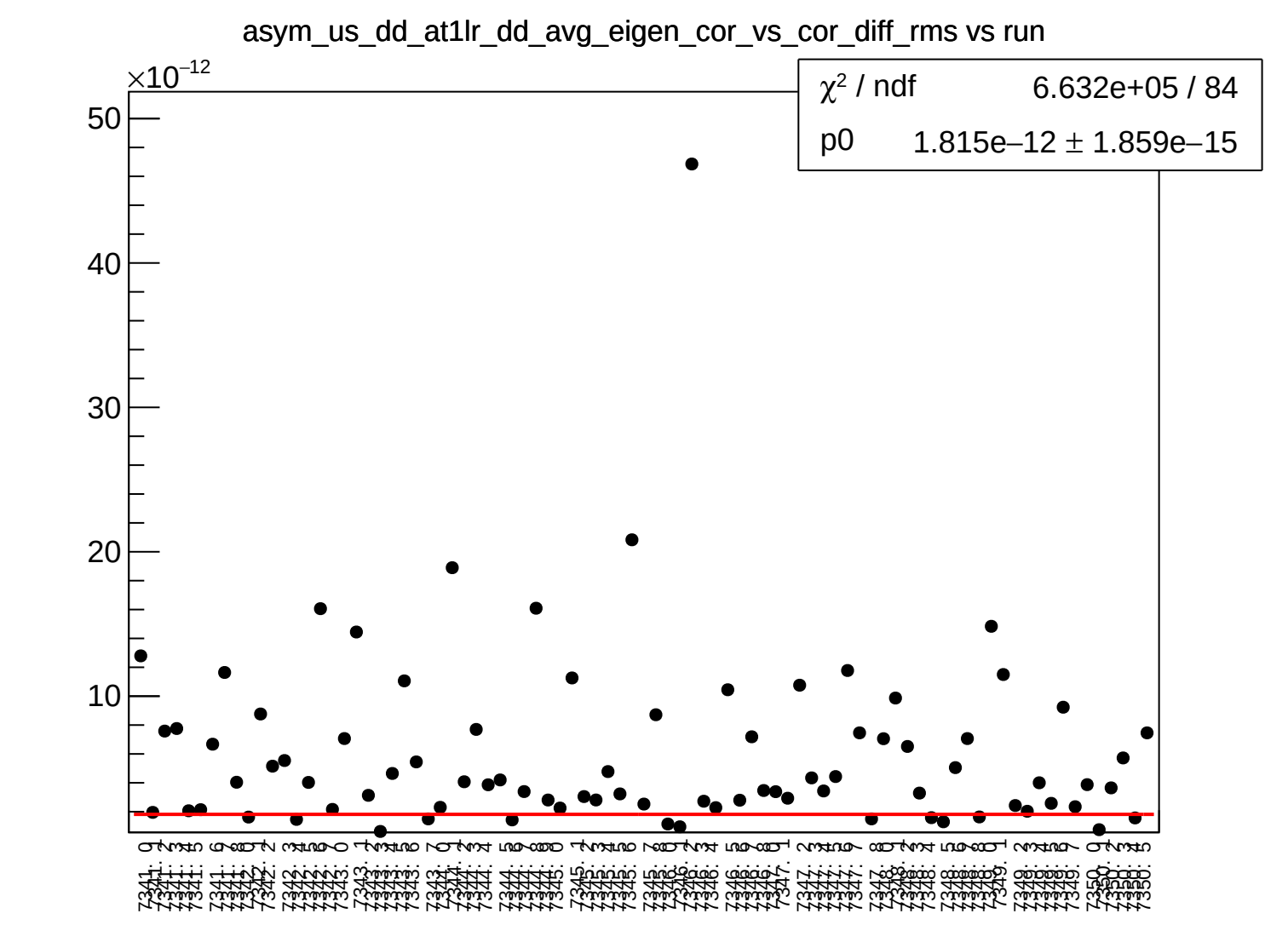

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.7e+05 / 84
p0 52.48 ± 0.04364
120
100
80
60
40
20

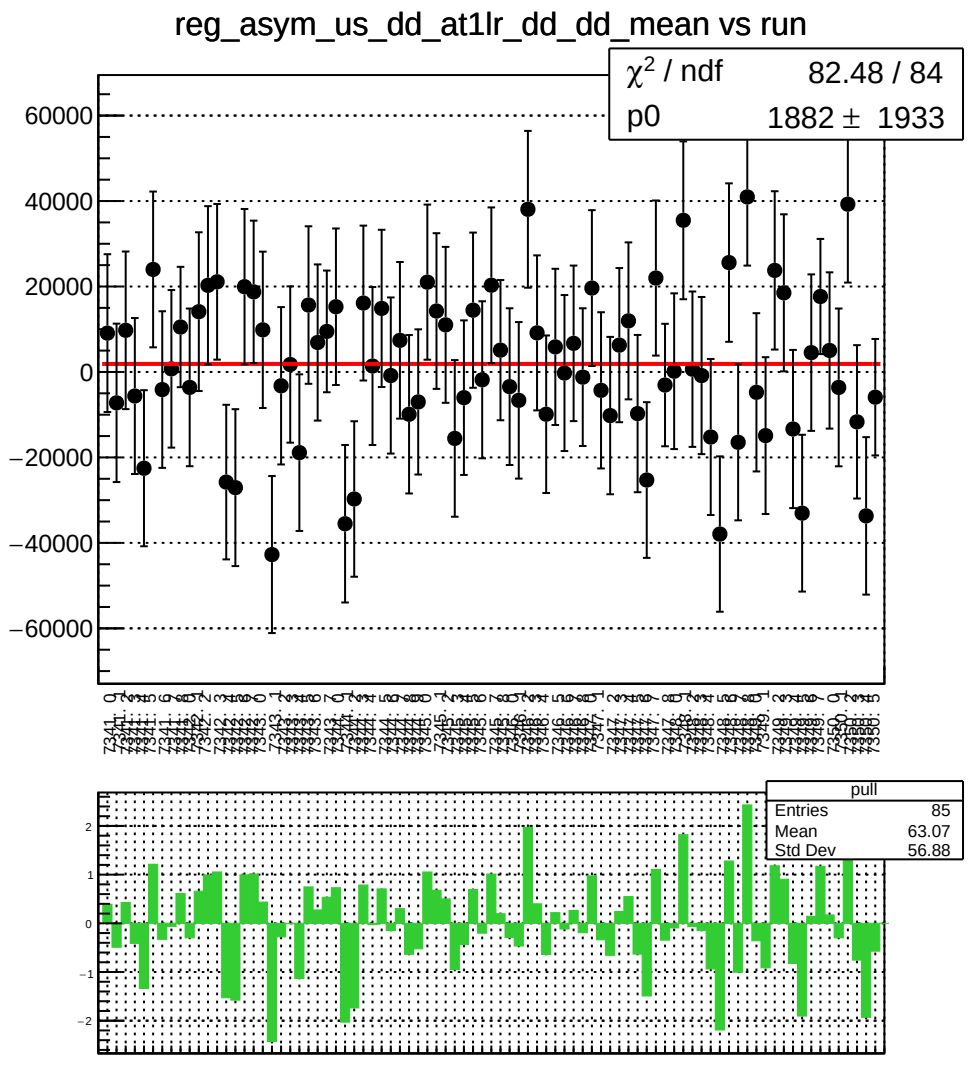

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.75 / 84
p0 −0.03394 ± 0.06171
pull
Entries 85
Mean −130.9
Std Dev 0

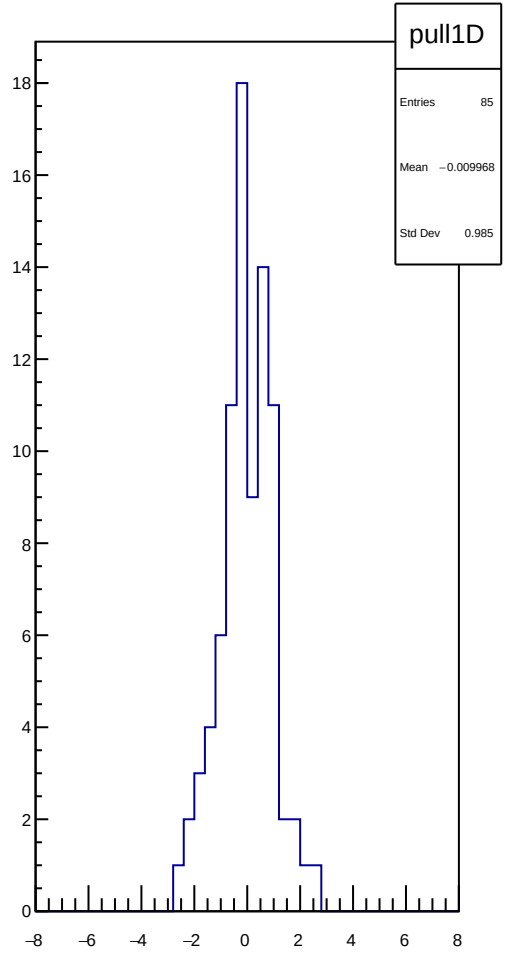

pull1D
Entries 85
Mean −0.007246
Std Dev 1.004

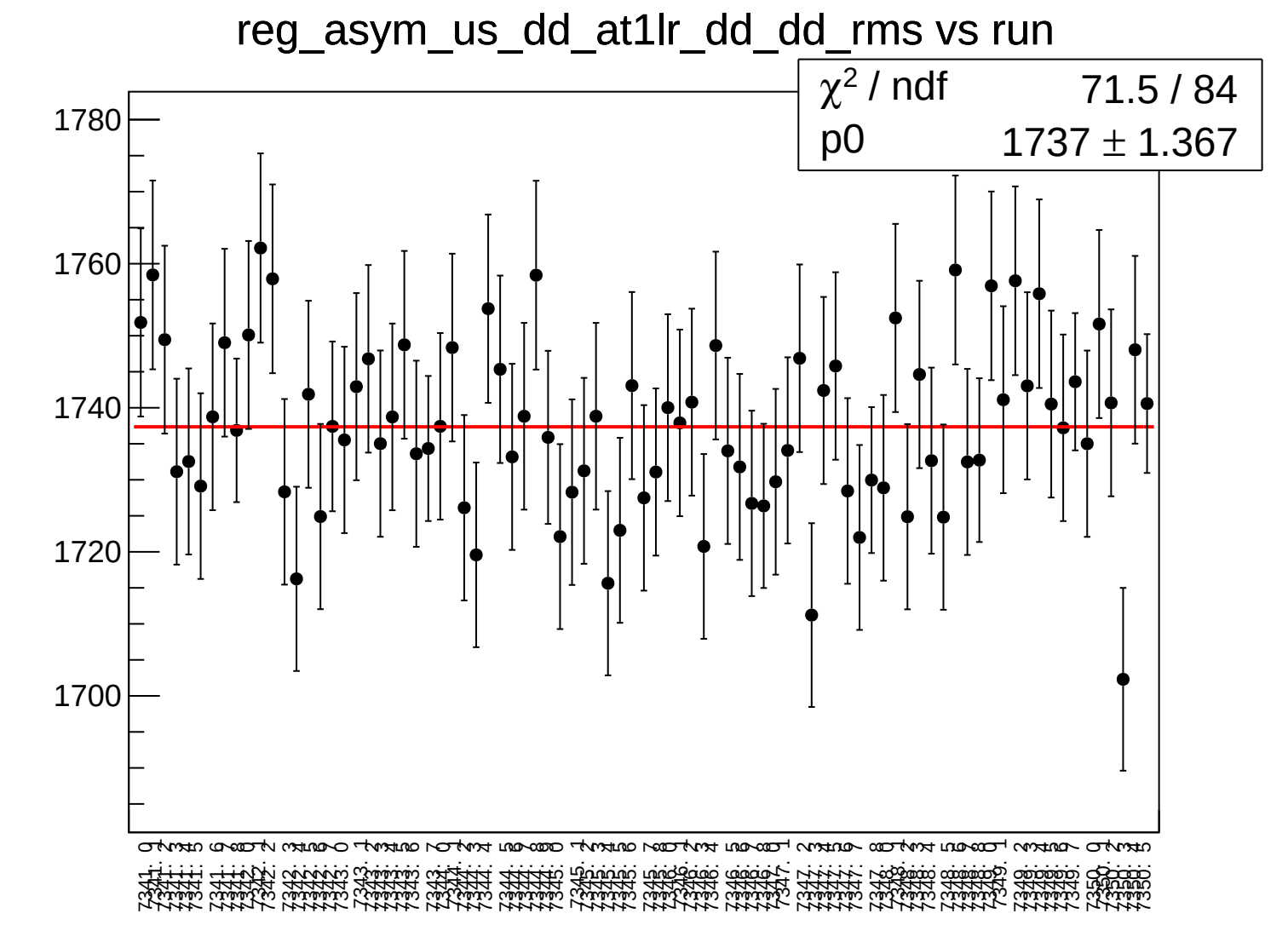

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.7e+05 / 84
p0 52.48 ± 0.04364
120
100
80
60
40
20

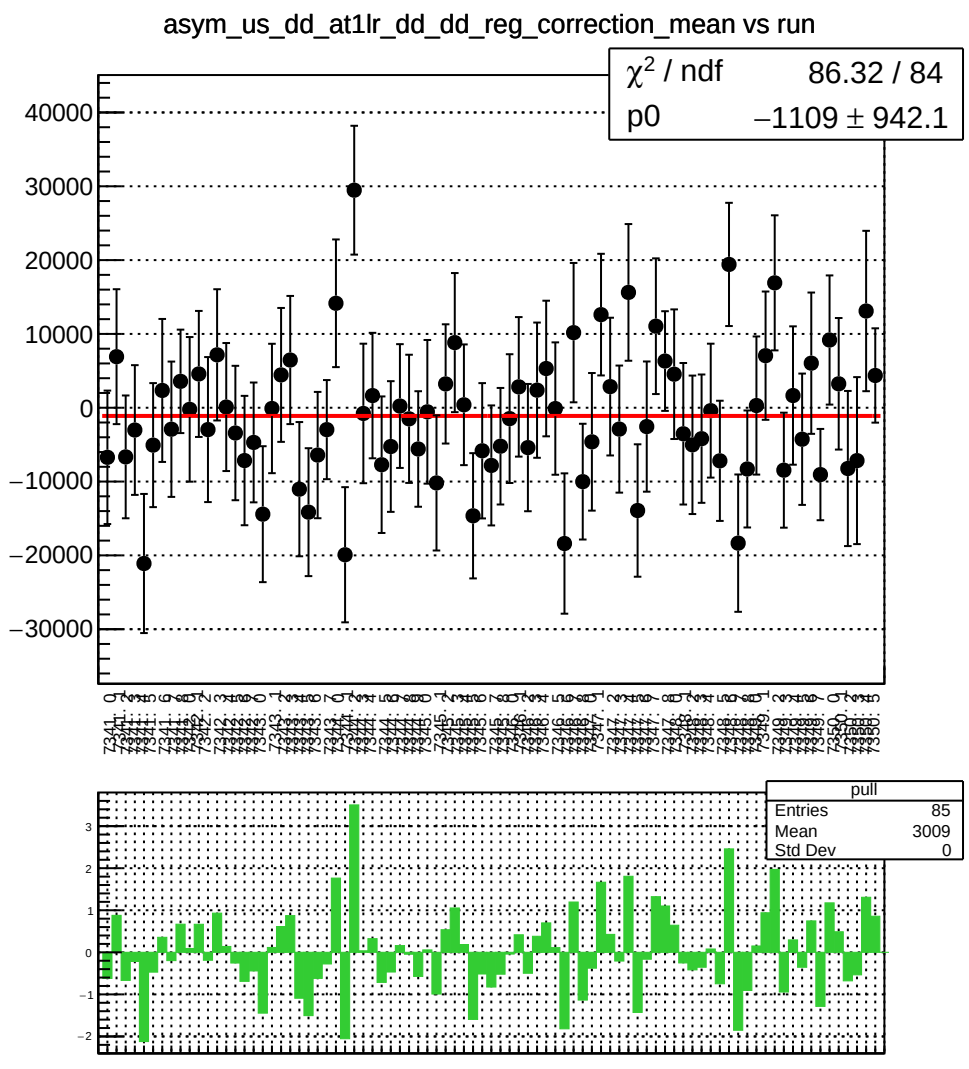

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.64 / 84
p0 1.234e−15 ± 2.629e−15
0.5
0
−0.5
−1
−1.5
pull
Entries 85
Mean 56.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.03014
Std Dev 0.885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

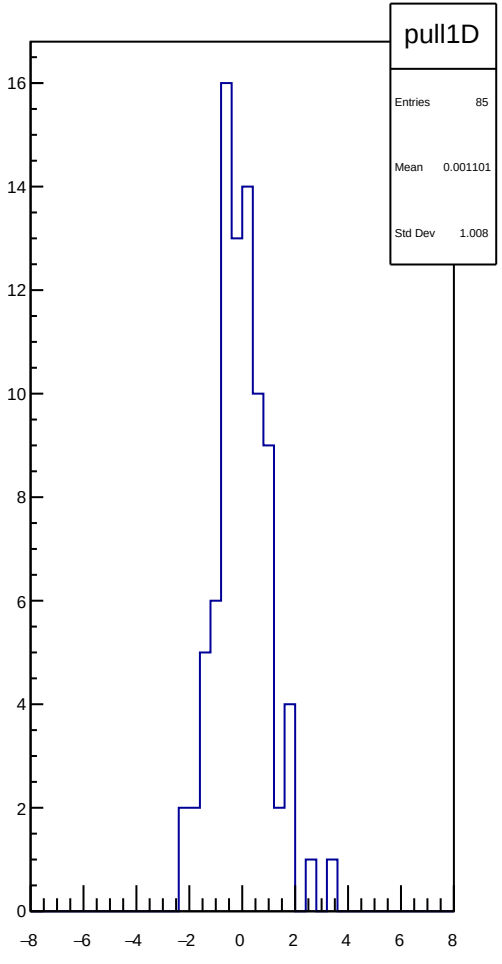

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.632e+05 / 84
p0 1.815e−12 ± 1.859e−15
50
40
30
20
10

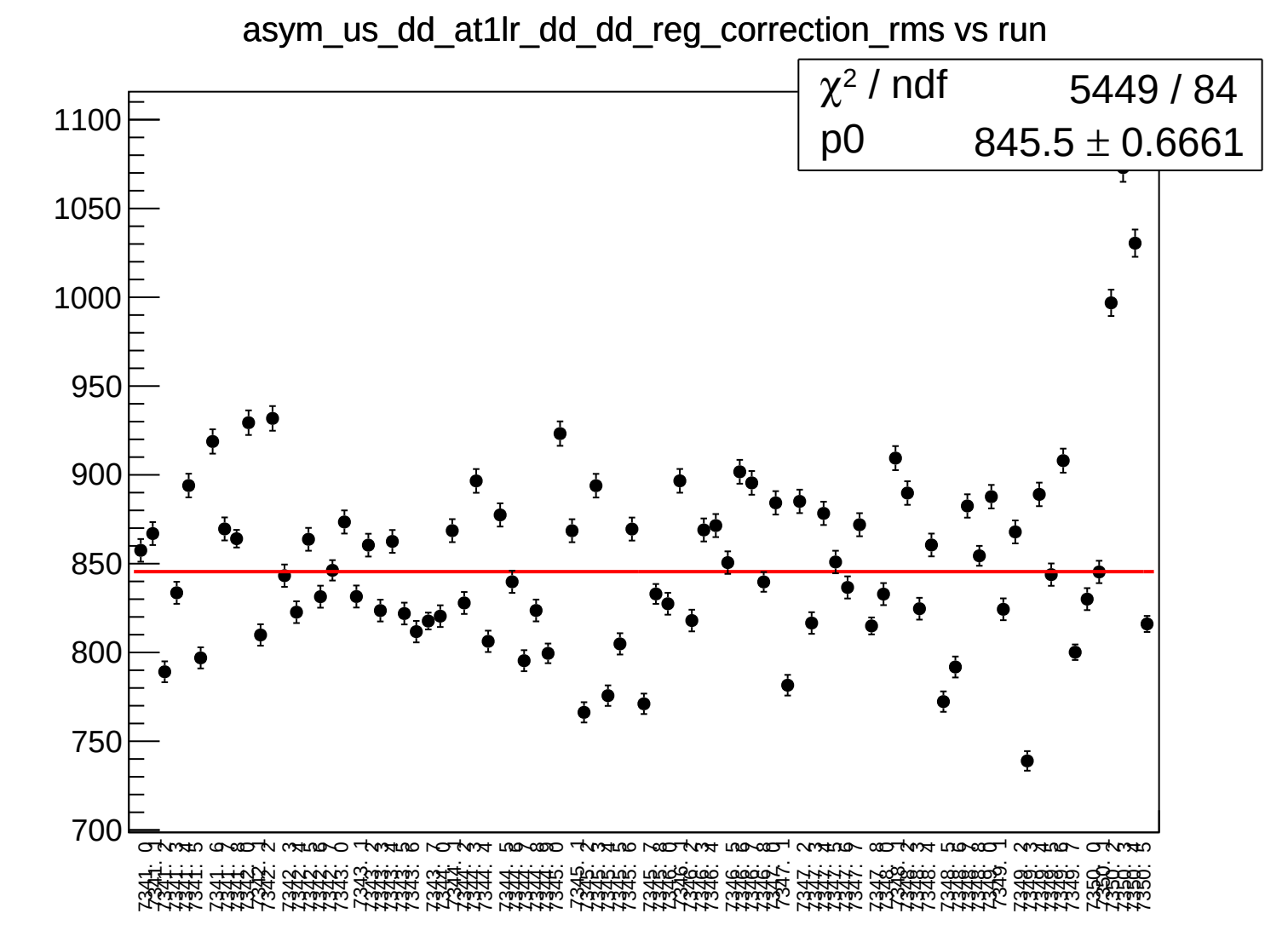

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.48 / 84
p0 1882 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 63.07
Std Dev 56.88
2
1
0
−1
−2

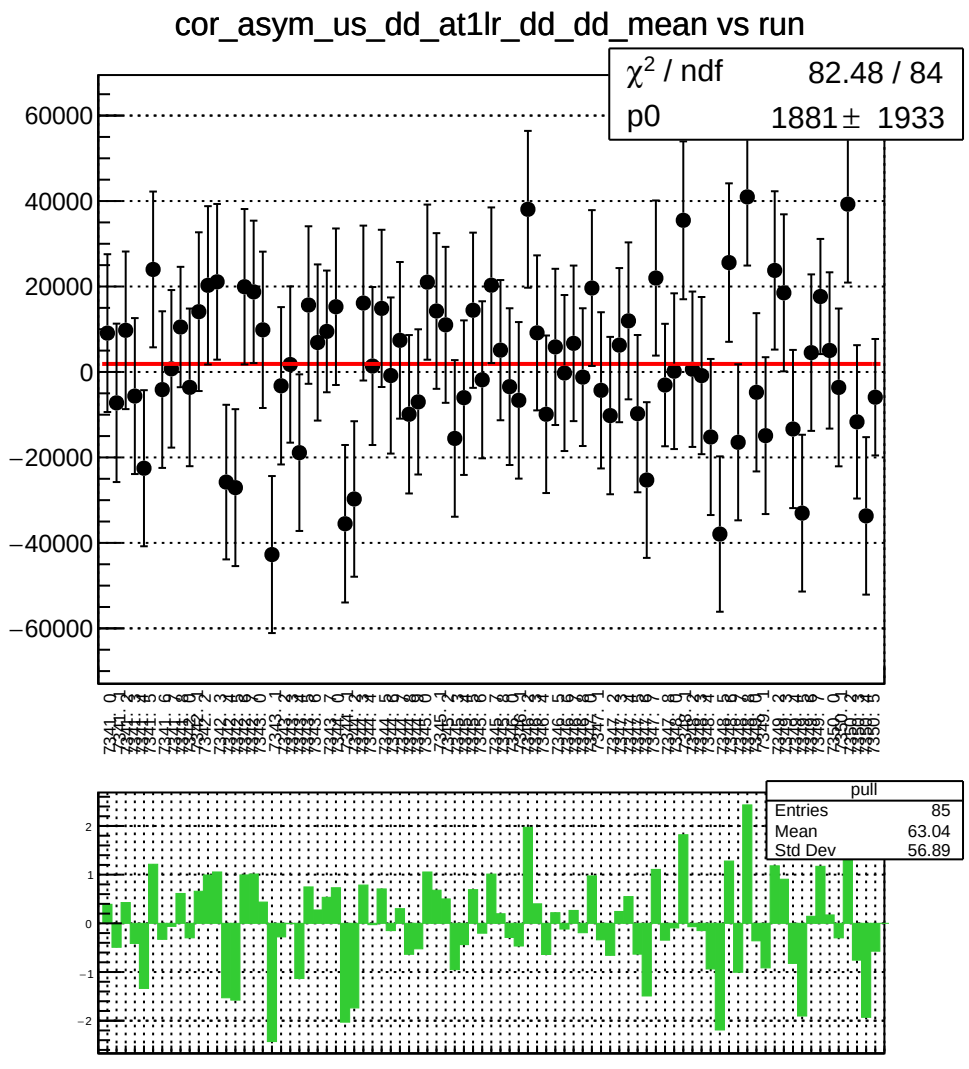

pull1D
Entries 85
Mean −0.009968
Std Dev 0.985
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

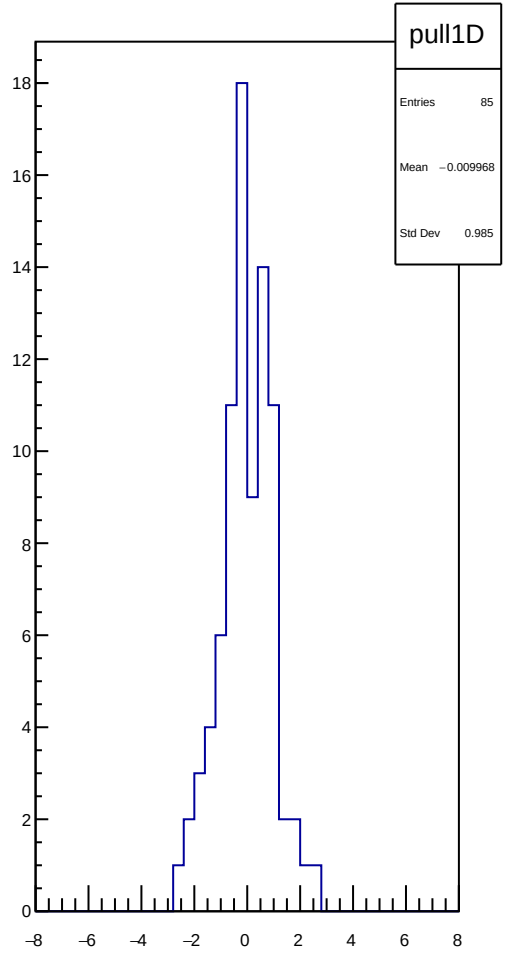

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 71.5 / 84
p0 1737 ± 1.367
1780
1760
1740
1720
1700

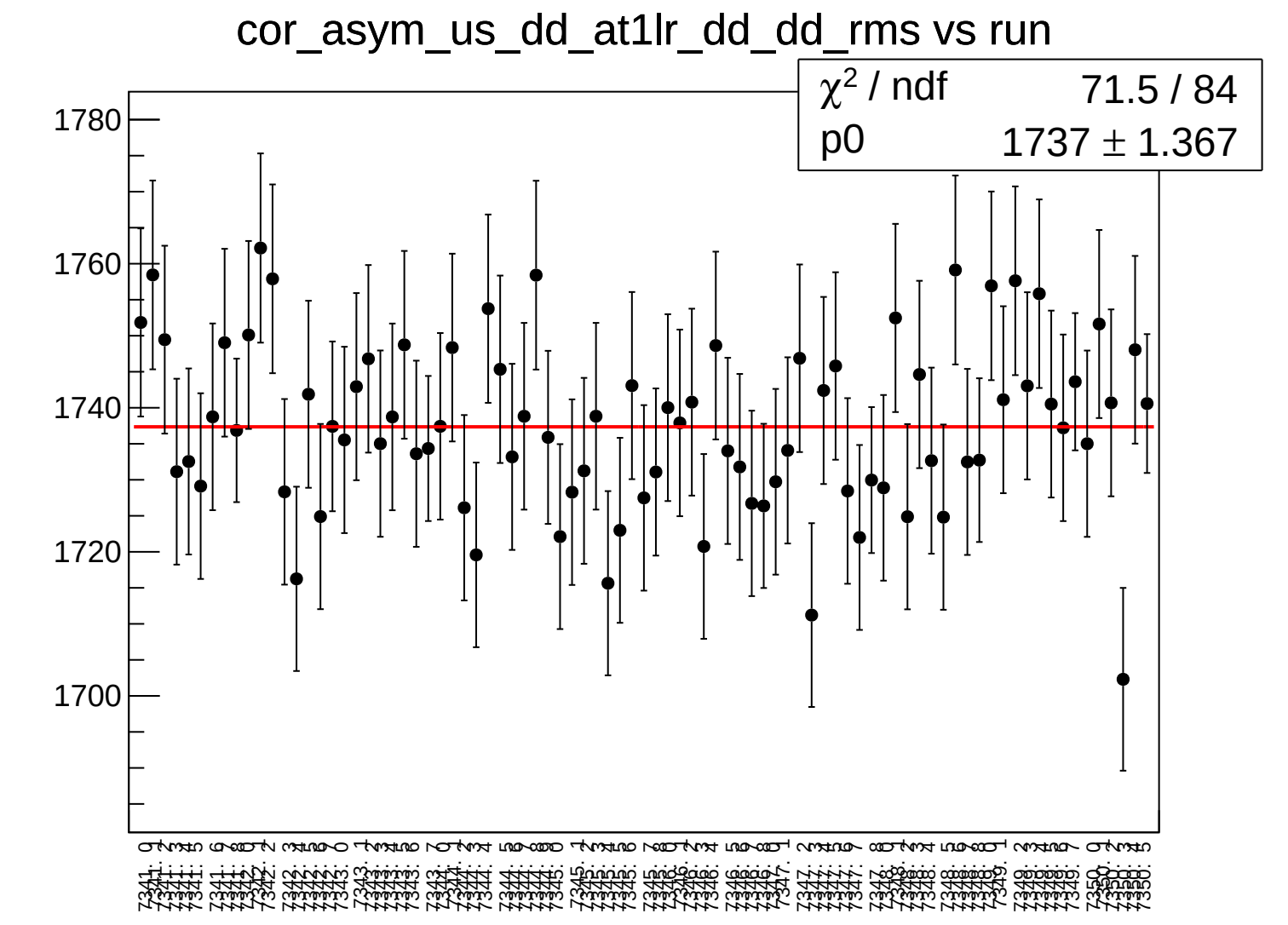

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 86.32 / 84
p0 −1109 ± 942.1
pull
Entries 85
Mean 3009
Std Dev 0

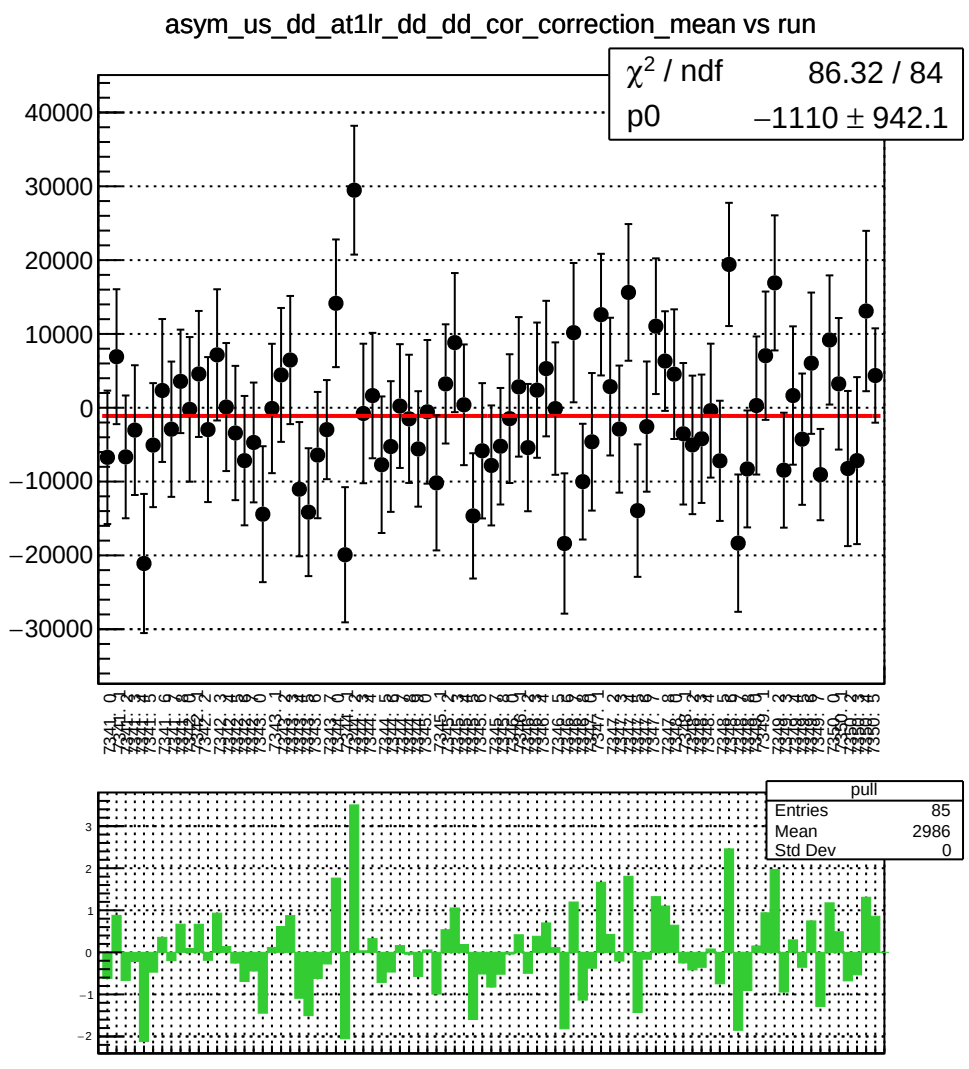

pull1D
Entries 85
Mean 0.001101
Std Dev 1.008

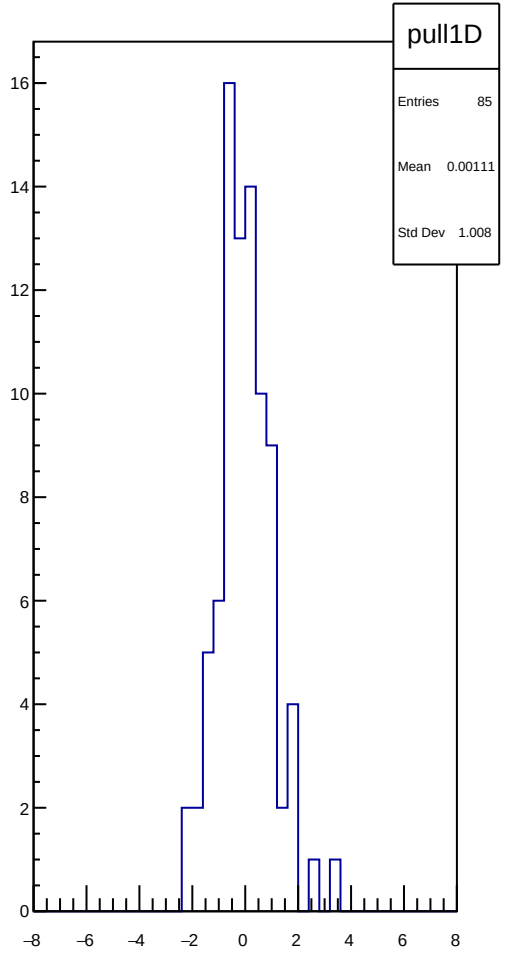

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5449 / 84
p0 845.5 ± 0.6661
1100
1050
1000
950
900
850
800
750
700

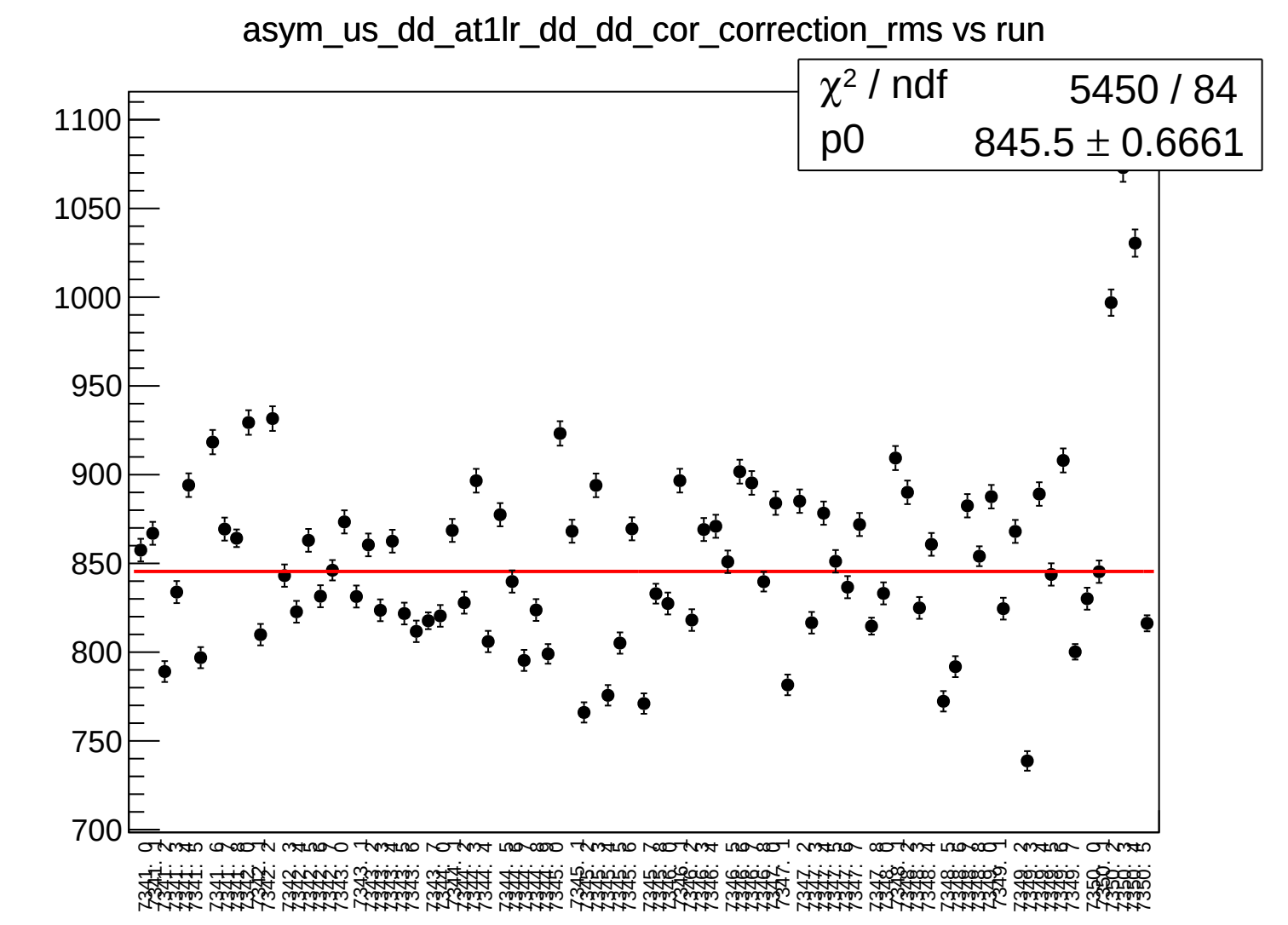

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.48 / 84
p0 1881 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 63.04
Std Dev 56.89
2
1
0
−1
−2

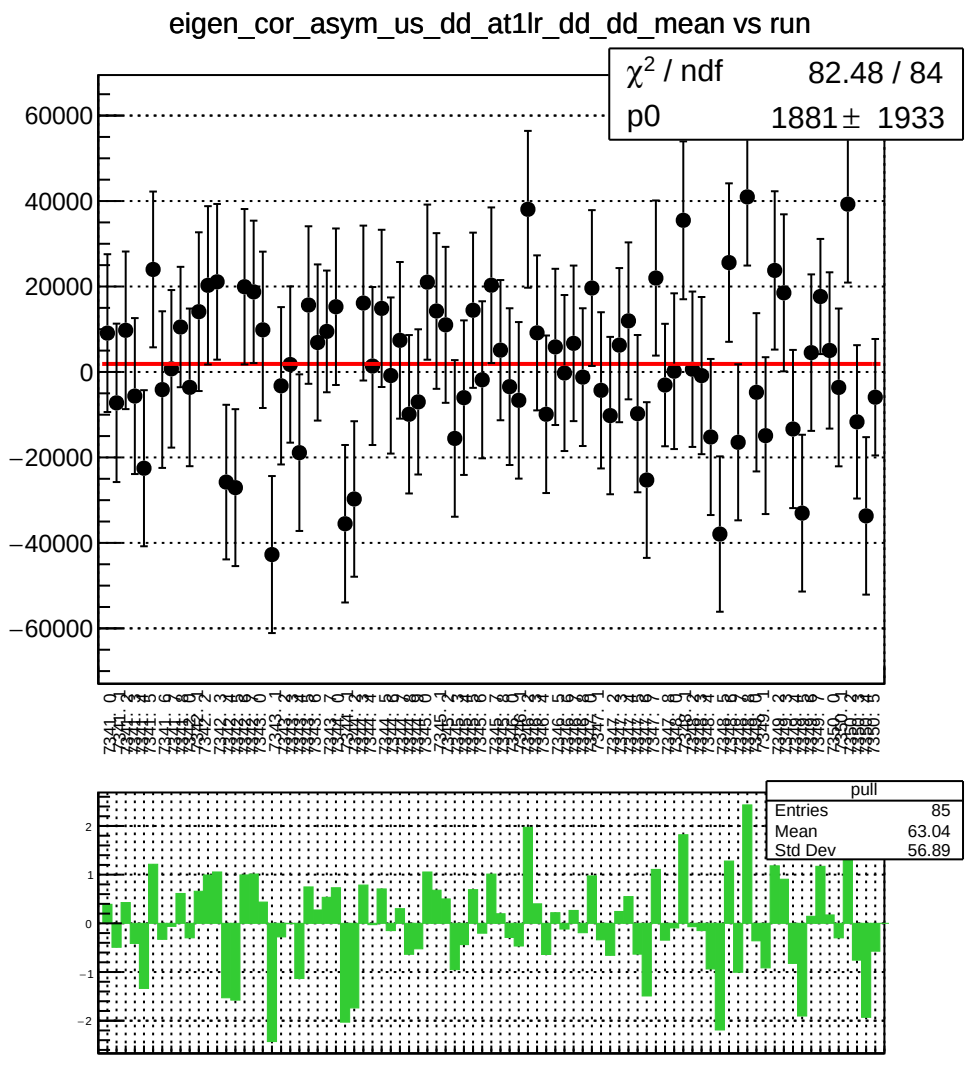

pull1D
Entries 85
Mean −0.009968
Std Dev 0.985
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

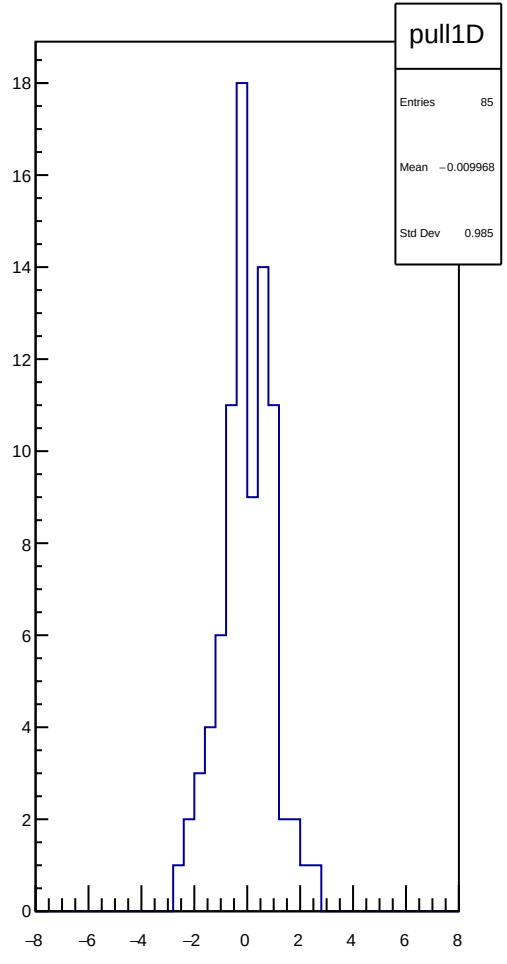

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 71.5 / 84
p0 1737 ± 1.367
1780
1760
1740
1720
1700

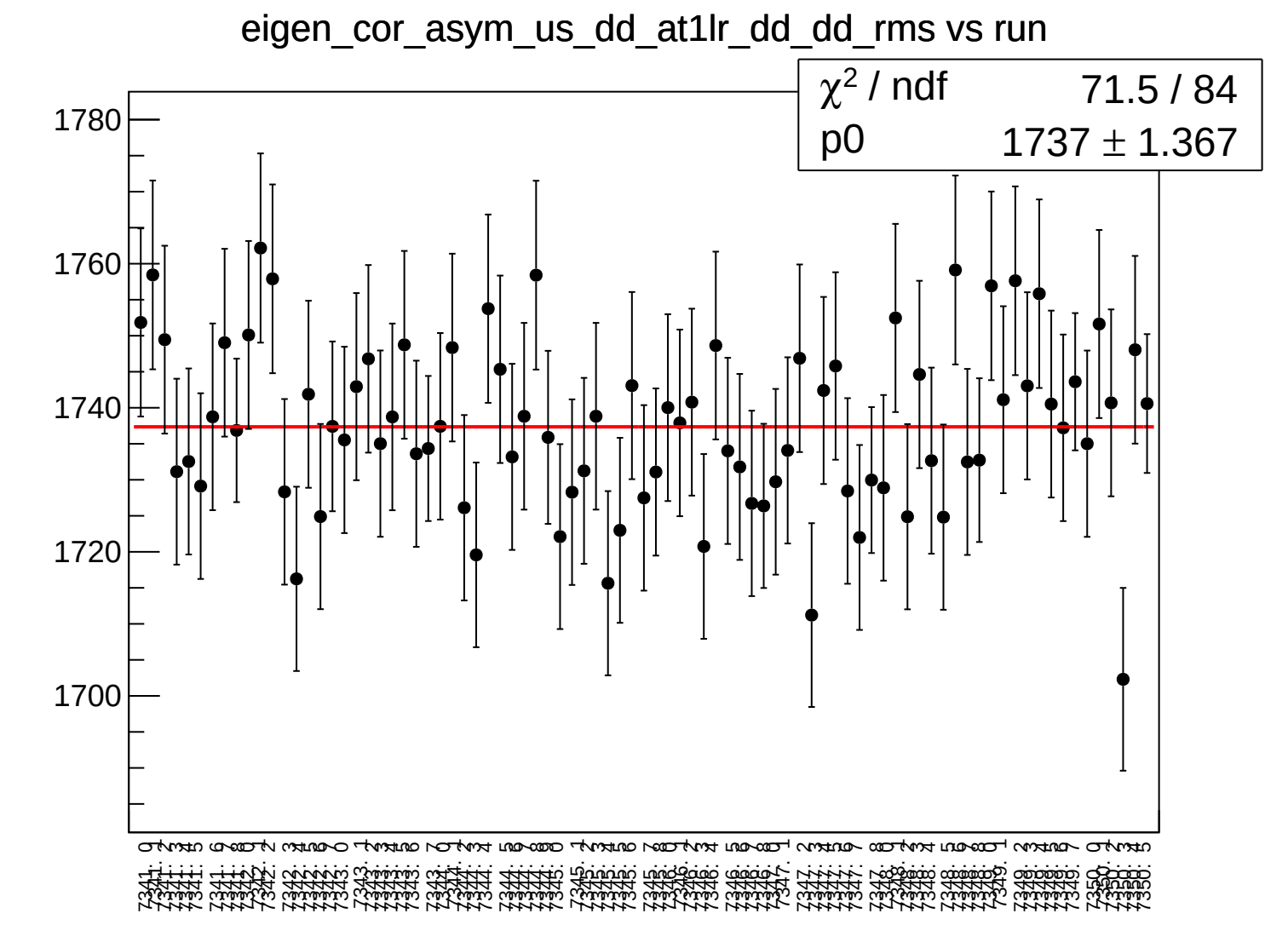

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 86.32 / 84
p0 −1110 ± 942.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 2986
Std Dev 0
3
2
1
0
−1
−2

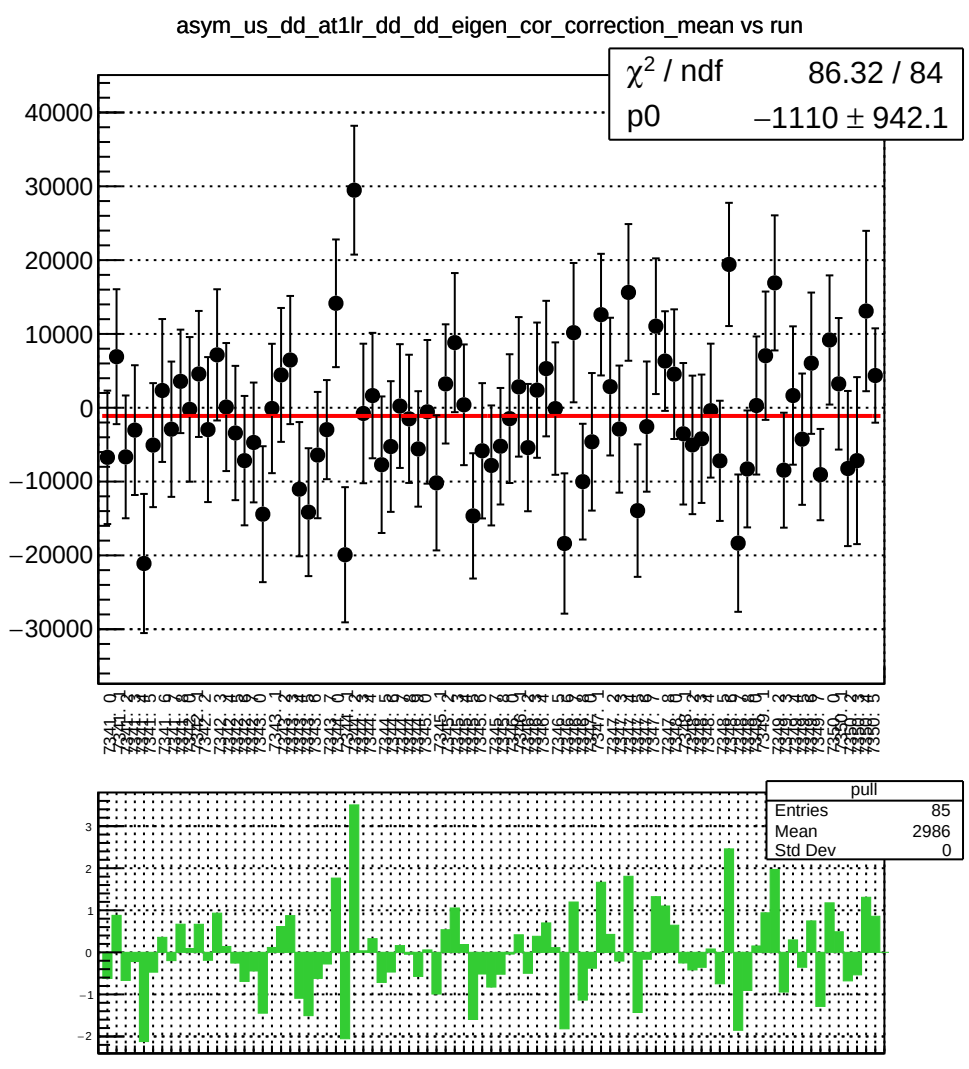

pull1D
Entries 85
Mean 0.00111
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

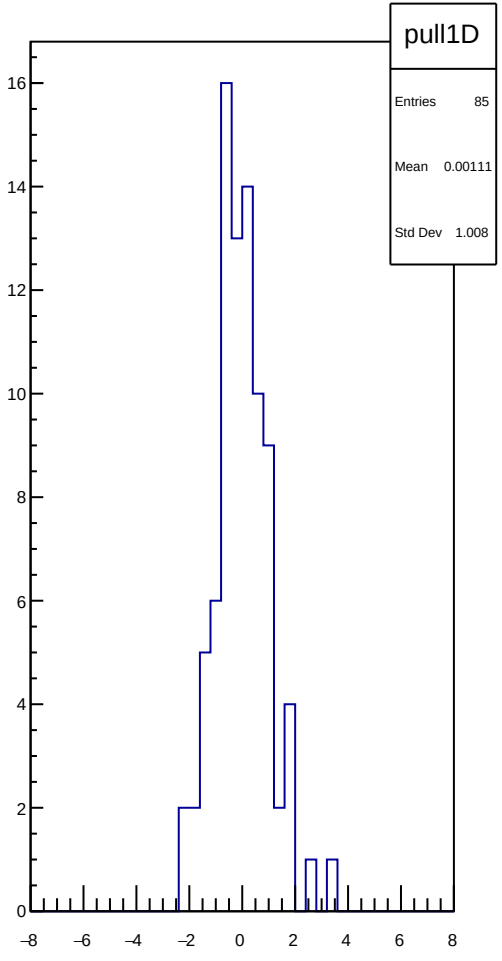

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5450 / 84
p0 845.5 ± 0.6661
1100
1050
1000
950
900
850
800
750
700

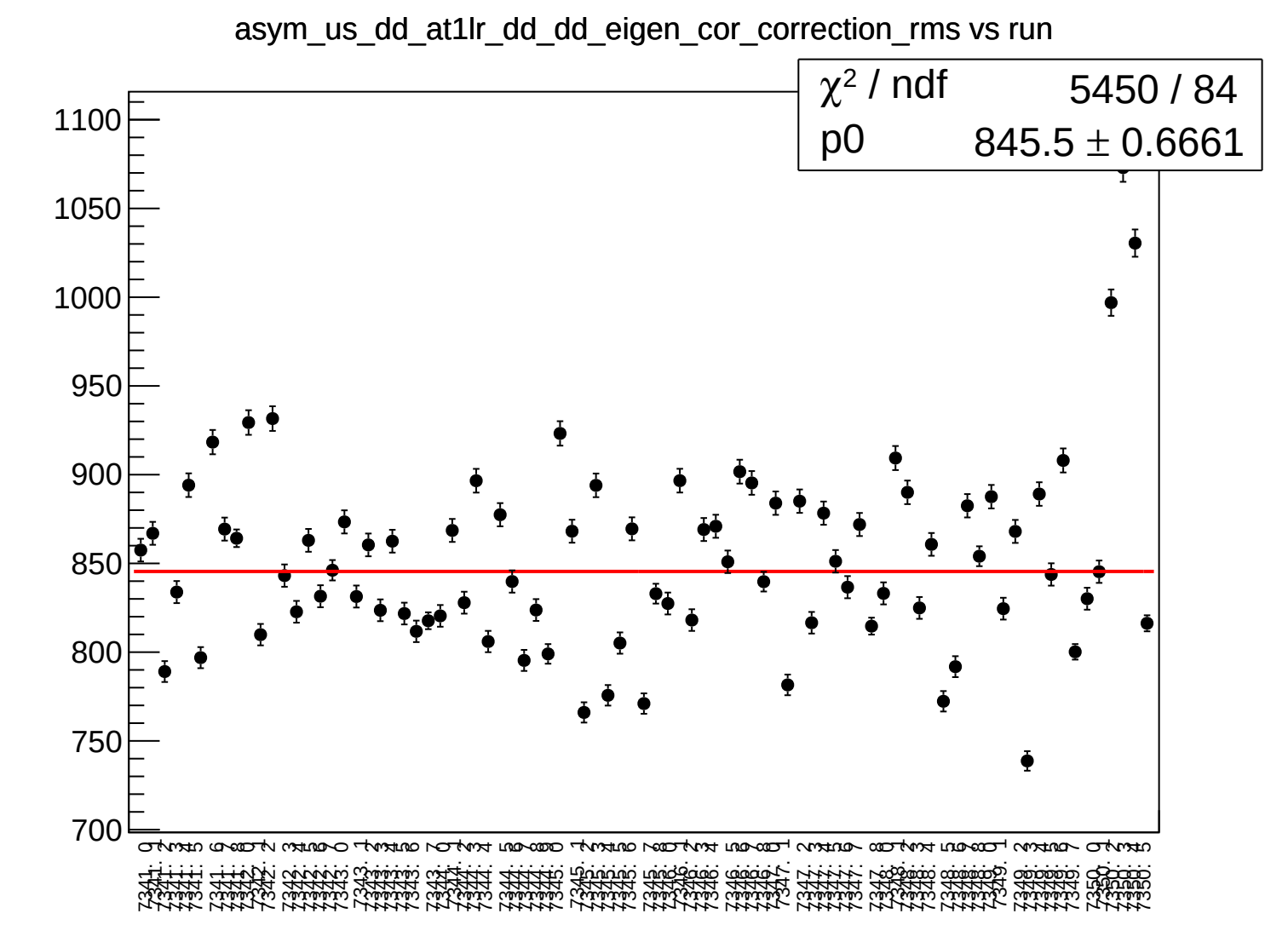

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.48 / 84
p0 1881 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 63.04
Std Dev 56.89
2
1
0
−1
−2

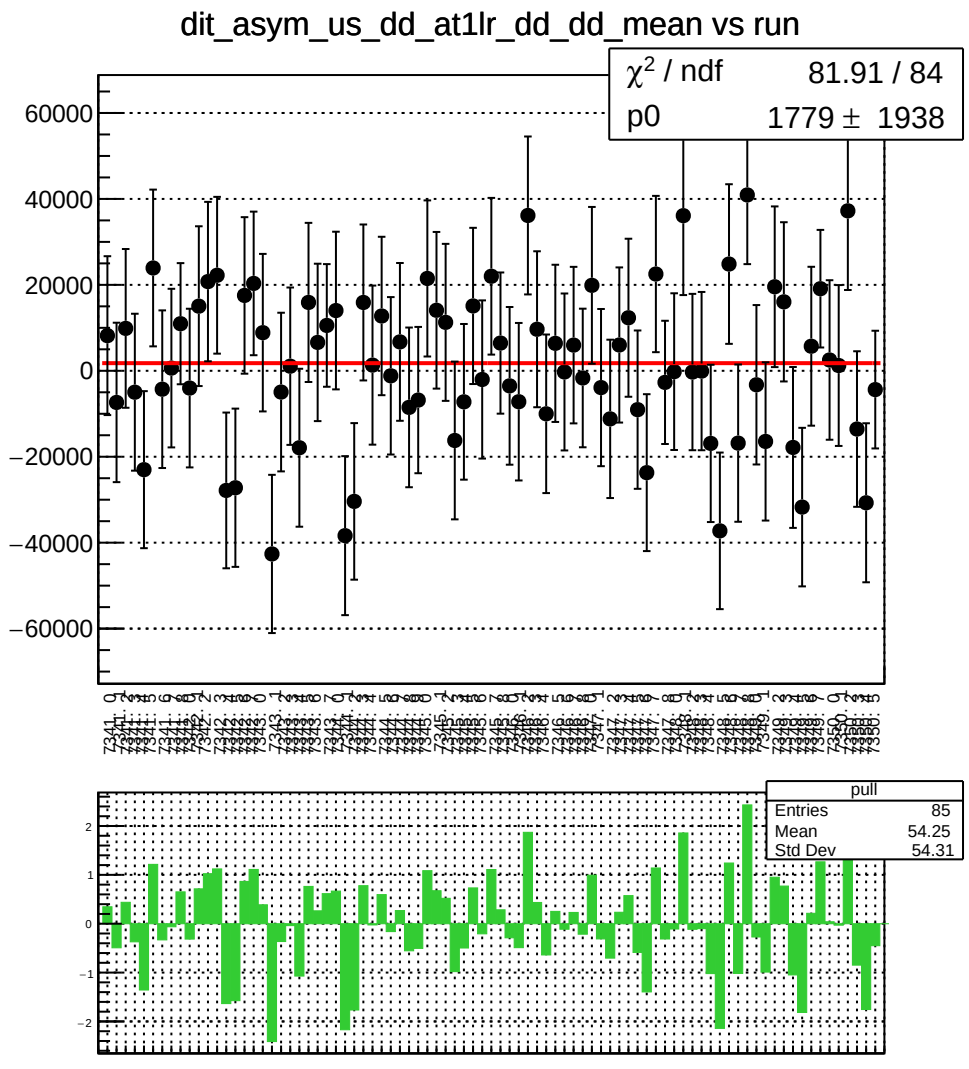

pull1D
Entries 85
Mean −0.009968
Std Dev 0.985
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

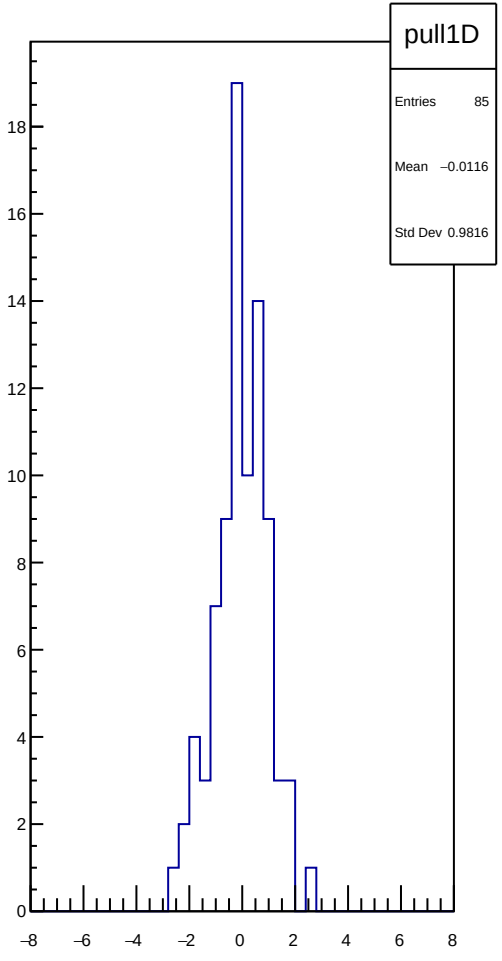

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 71.5 / 84
p0 1737 ± 1.367
1780
1760
1740
1720
1700

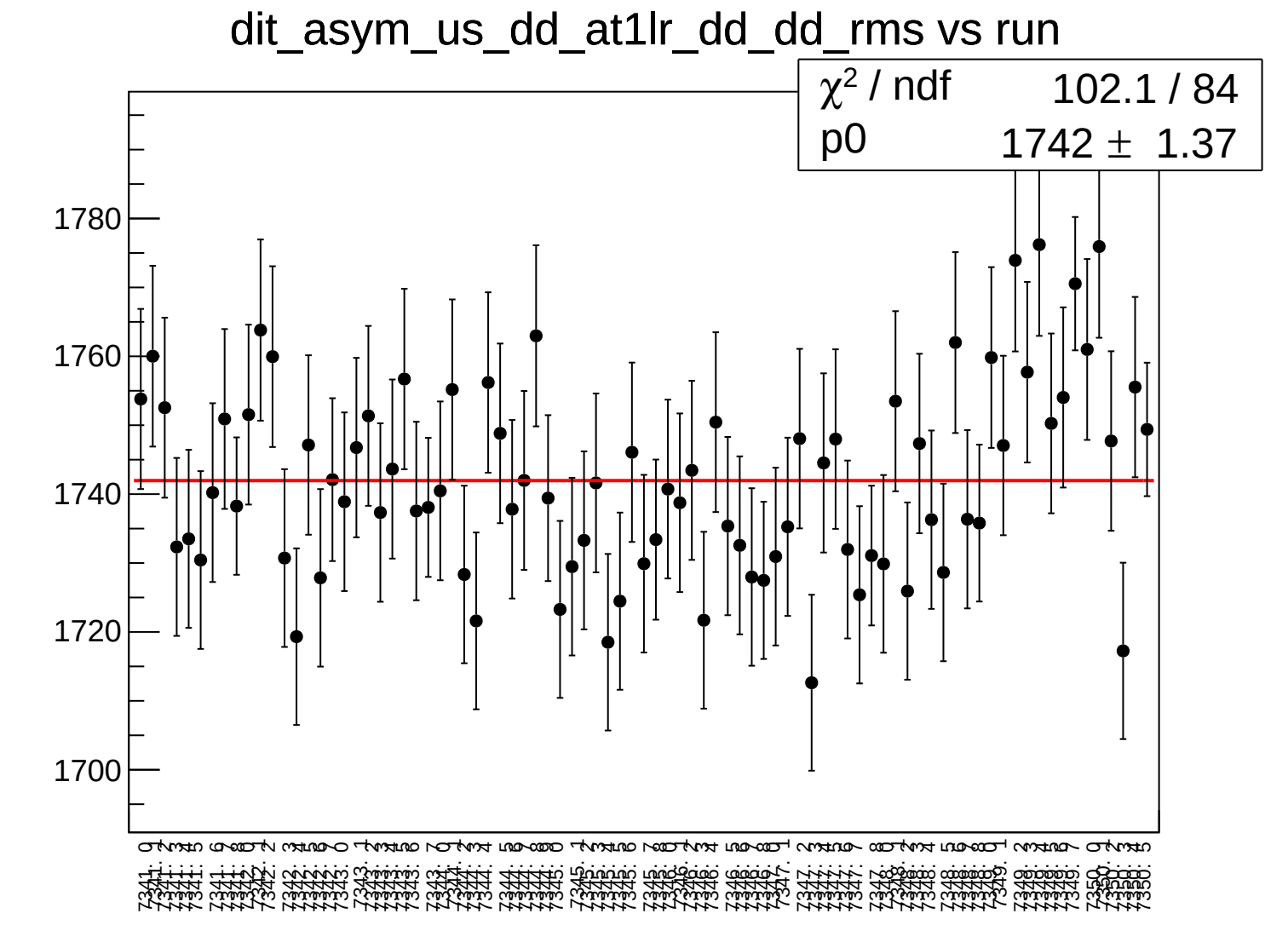

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.32 / 84
p0 −1110 ± 942.1
pull
Entries 85
Mean 2986
Std Dev 0

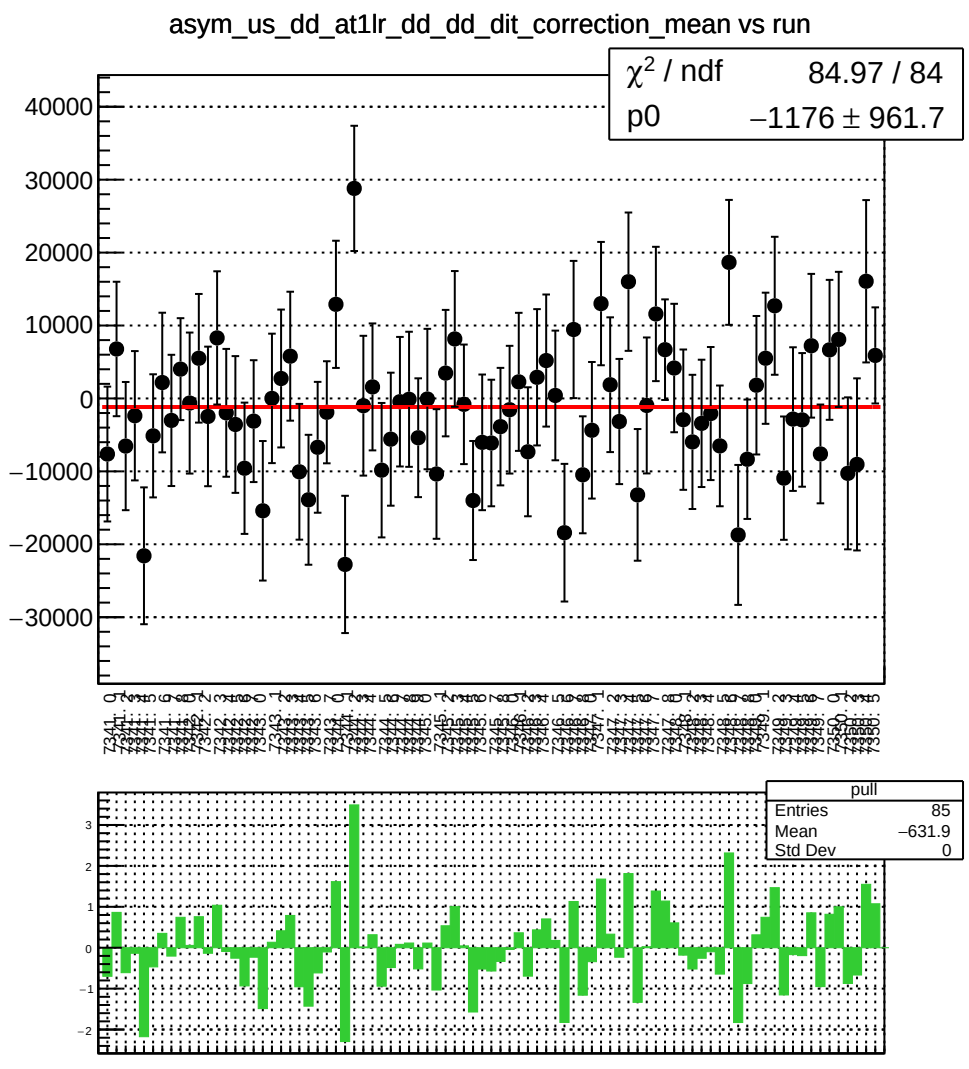

pull1D
Entries 85
Mean 0.00111
Std Dev 1.008

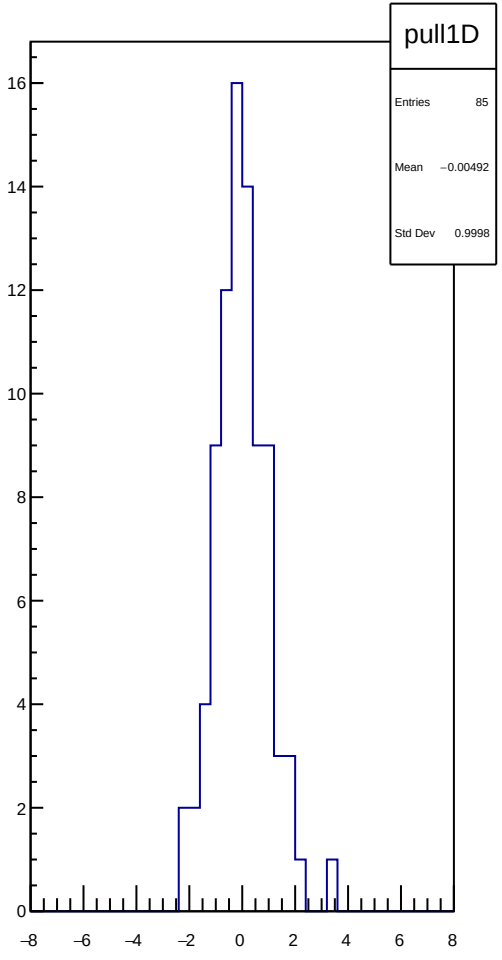

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5450 / 84
p0 845.5 ± 0.6661
1100
1050
1000
950
900
850
800
750
700

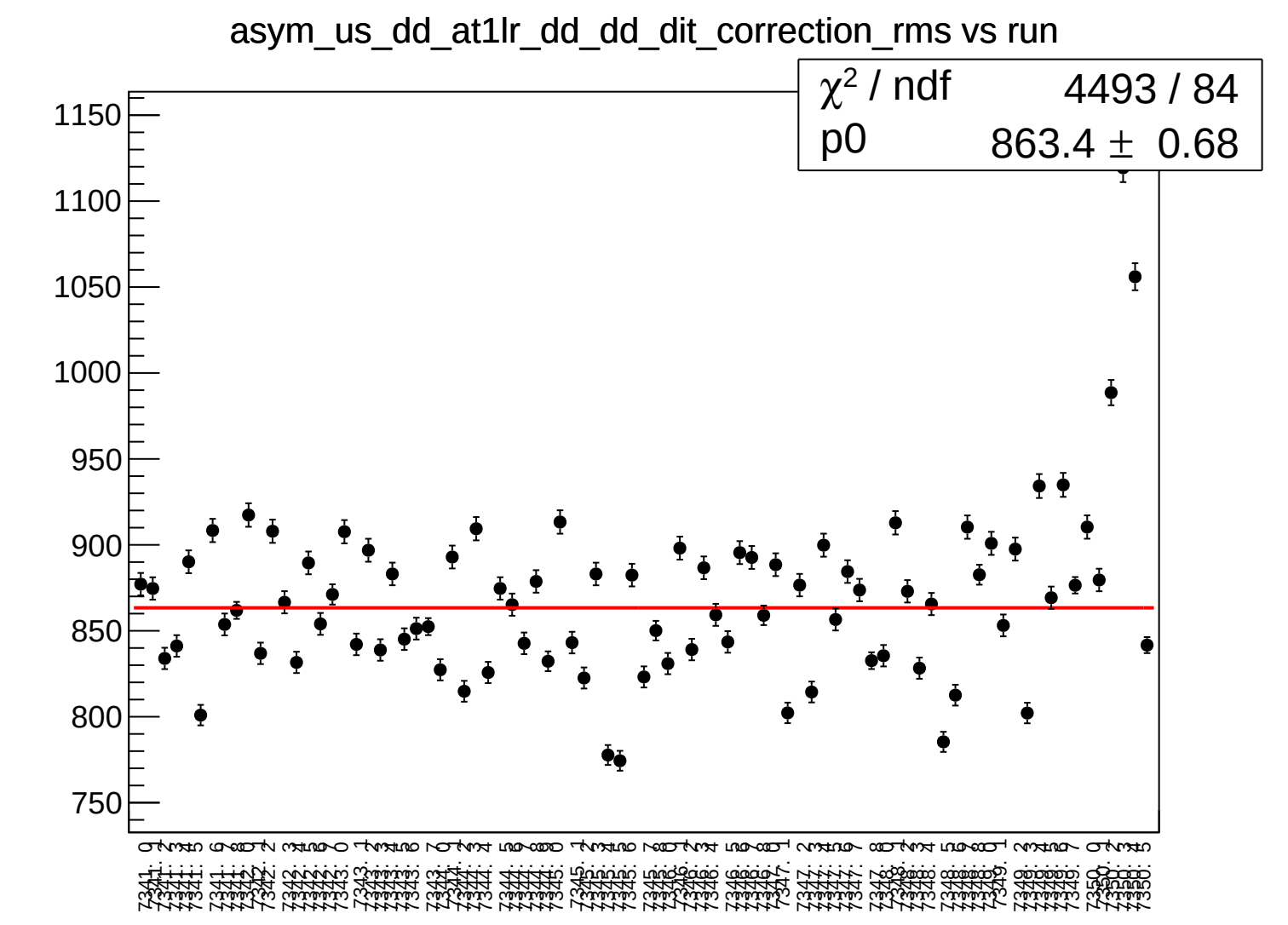

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 81.91 / 84
p0 1779 ± 1938
pull
Entries 85
Mean 54.25
Std Dev 54.31

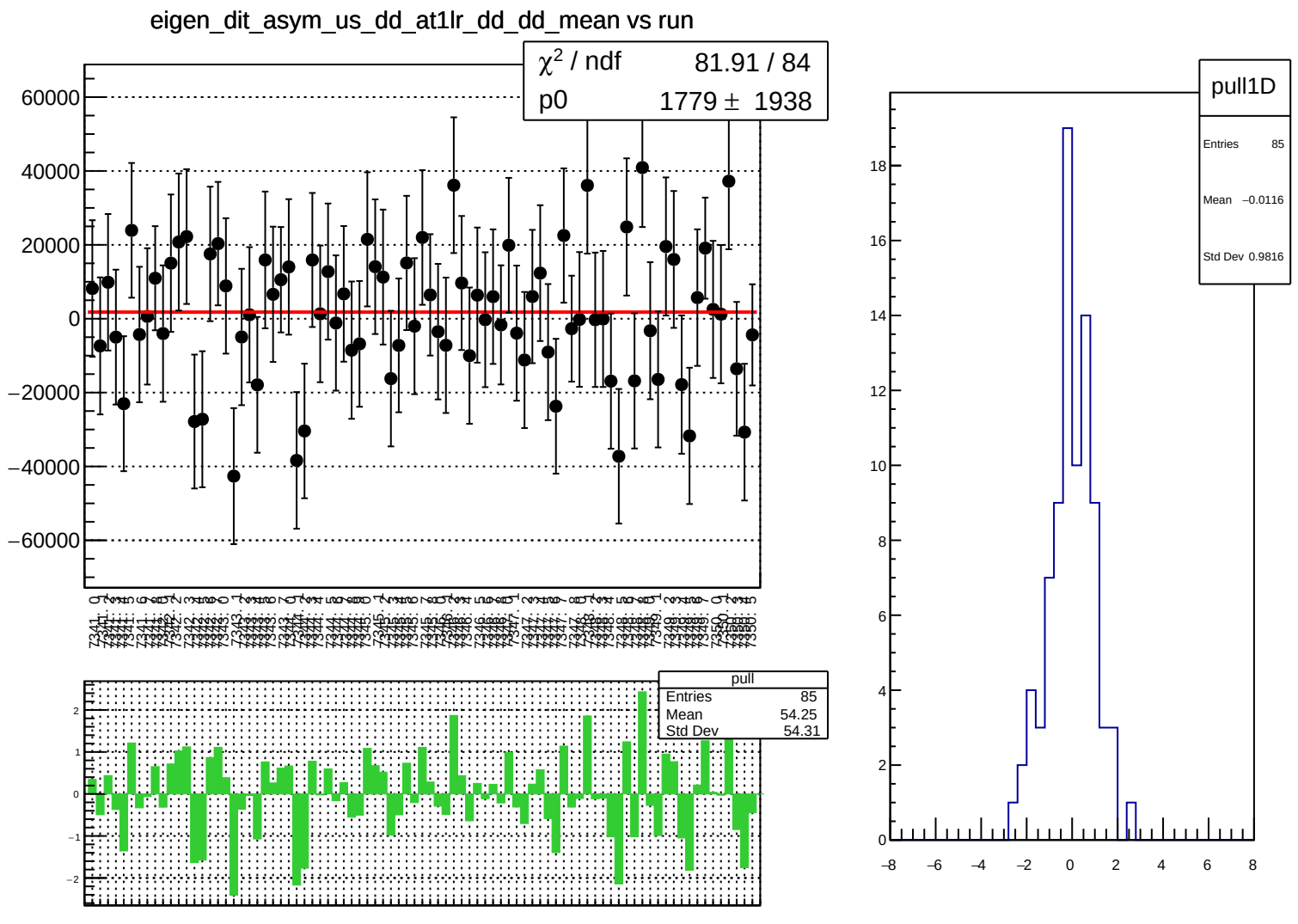

pull1D
Entries 85
Mean −0.0116
Std Dev 0.9816

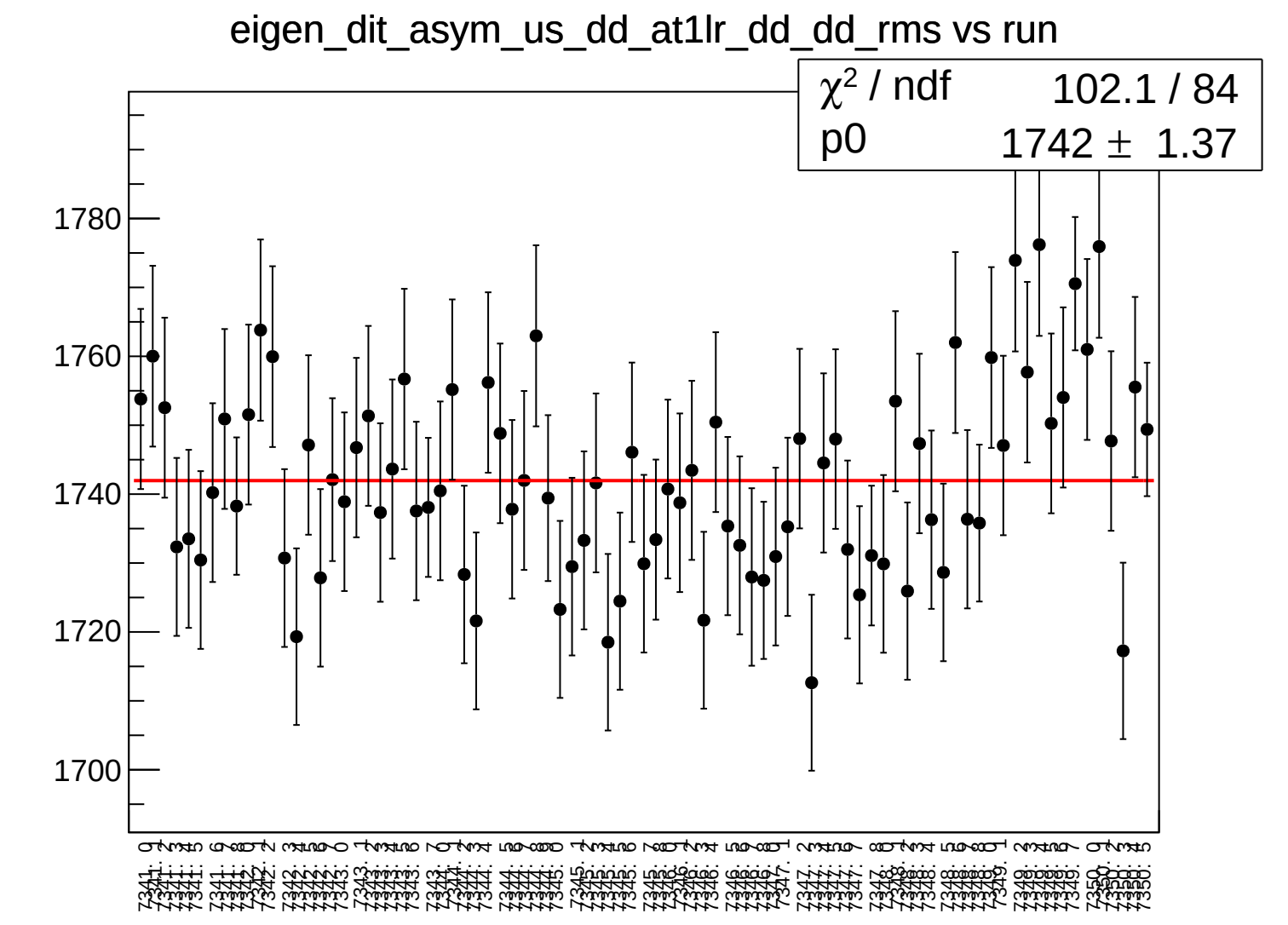

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 102.1 / 84
p0 1742 ± 1.37
1780
1760
1740
1720
1700

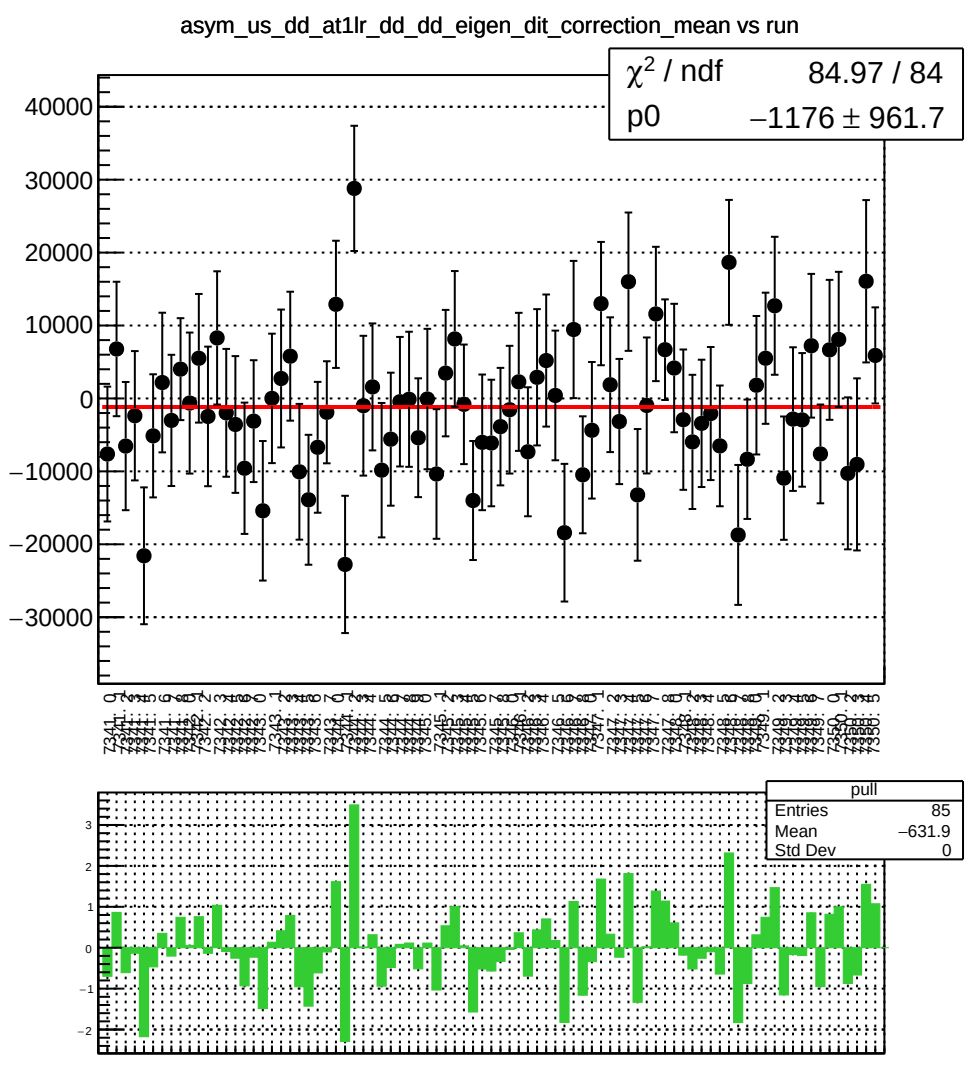

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 84.97 / 84
p0 −1176 ± 961.7
pull
Entries 85
Mean −631.9
Std Dev 0

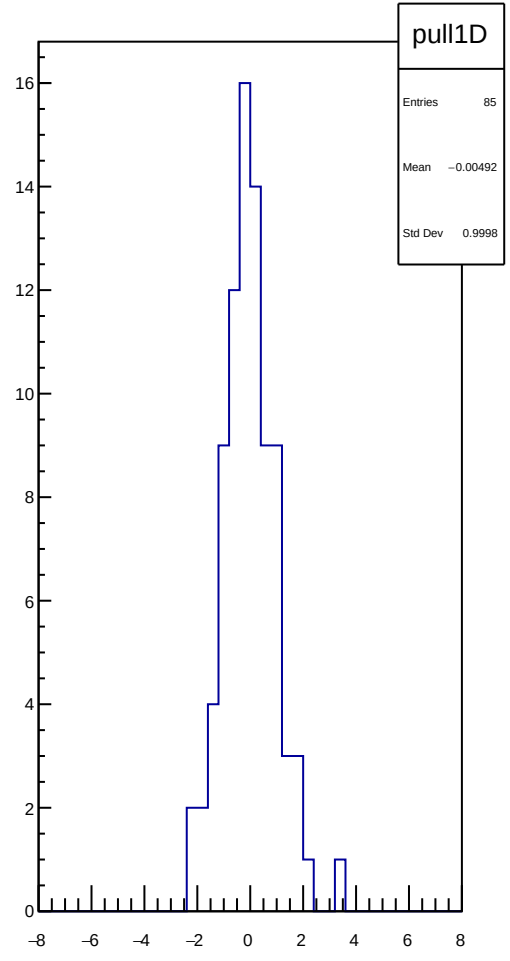

pull1D
Entries 85
Mean −0.00492
Std Dev 0.9998

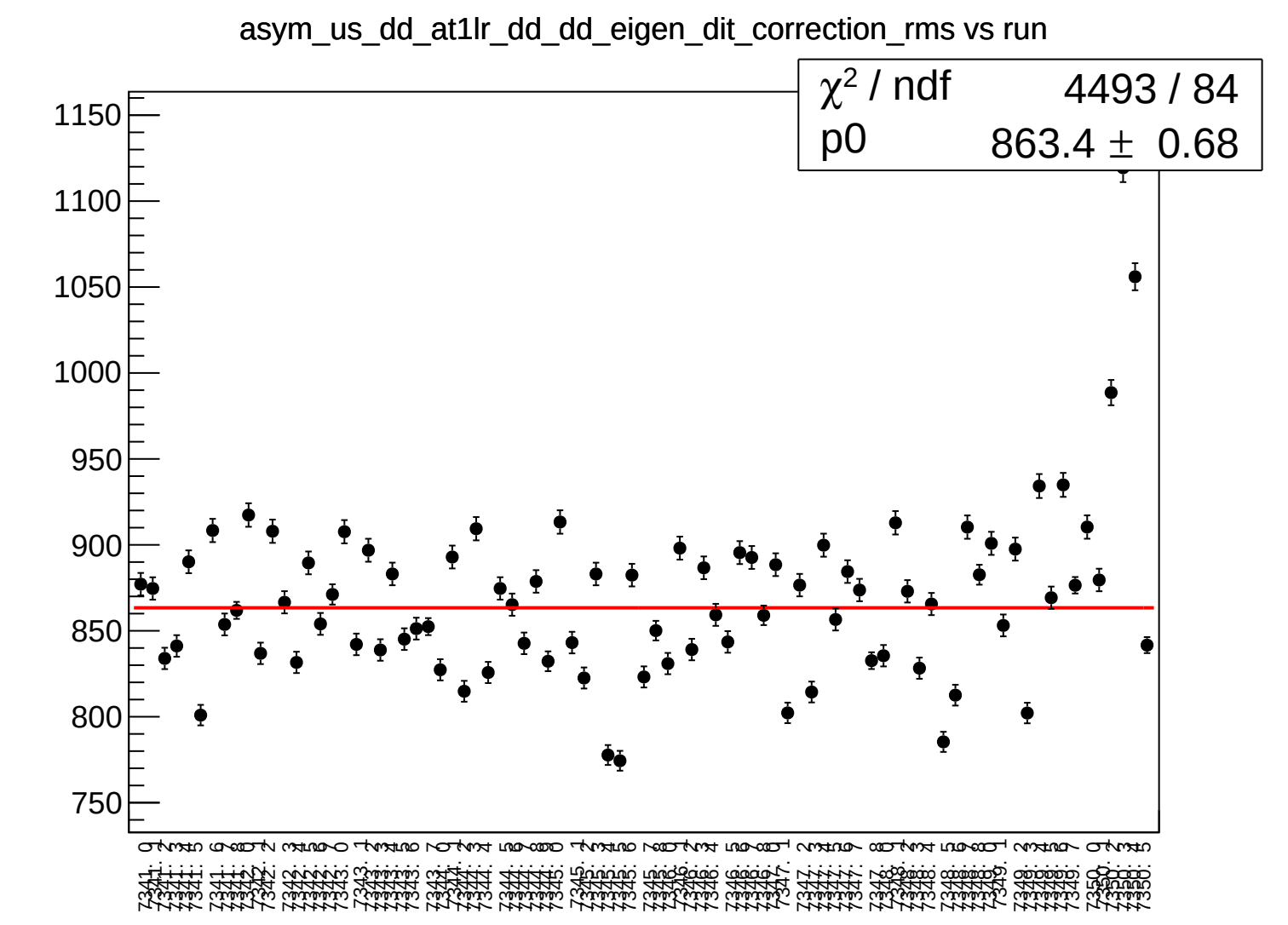

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4493 / 84
p0 863.4 ± 0.68
1150
1100
1050
1000
950
900
850
800
750

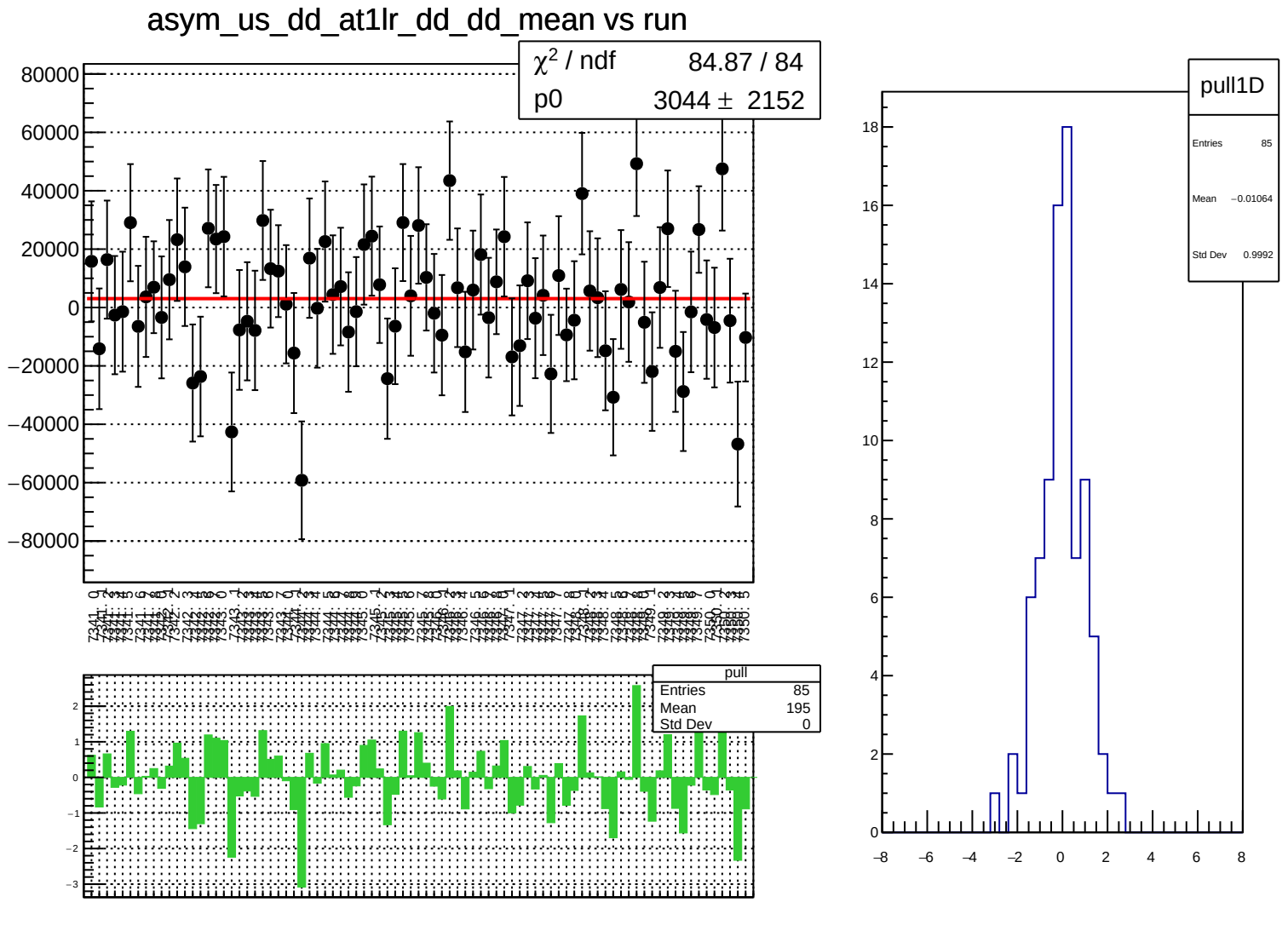

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 81.91 / 84
p0 1779 ± 1938
pull
Entries 85
Mean 54.25
Std Dev 54.31
pull1D
Entries 85
Mean −0.0116
Std Dev 0.9816

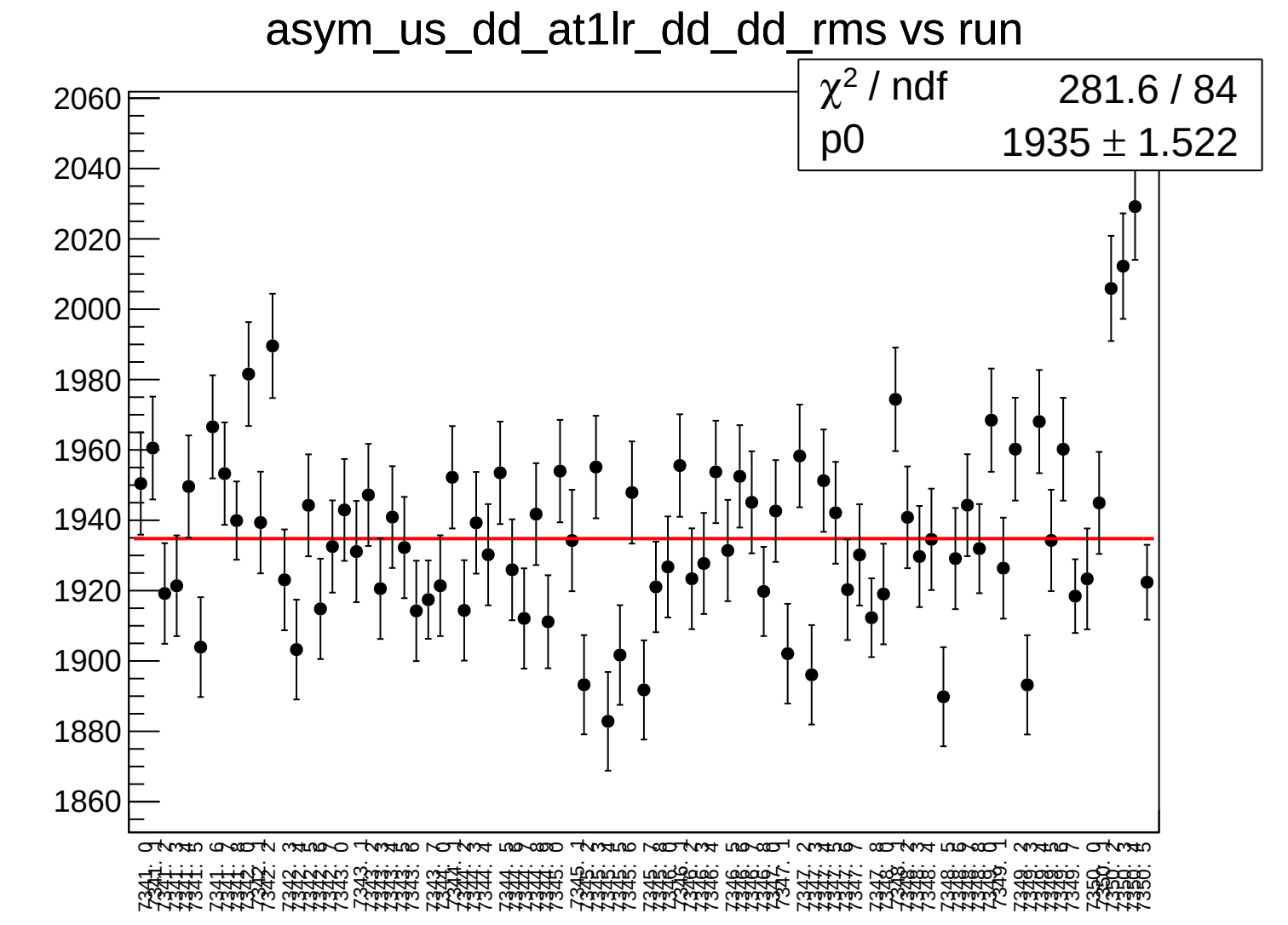

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 102.1 / 84
p0 1742 ± 1.37
1780
1760
1740
1720
1700

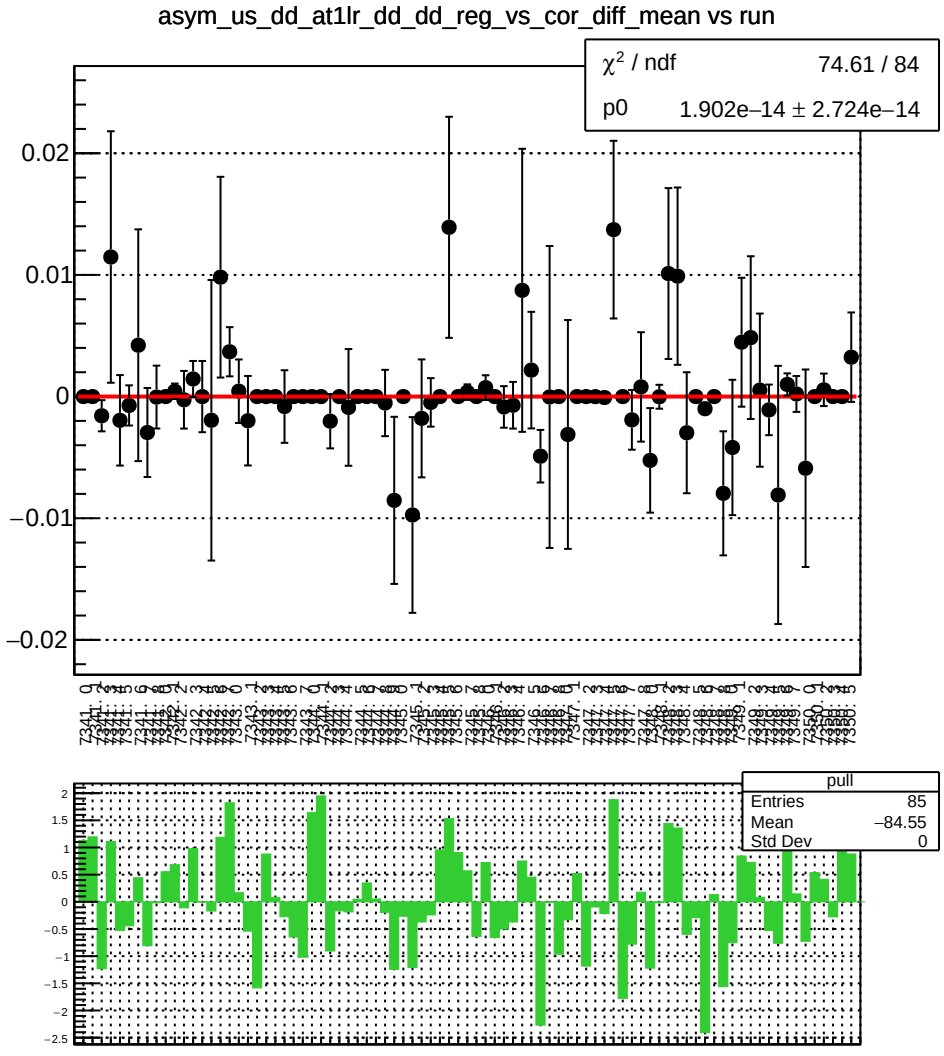

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.97 / 84
p0 −1176 ± 961.7
pull
Entries 85
Mean −631.9
Std Dev 0

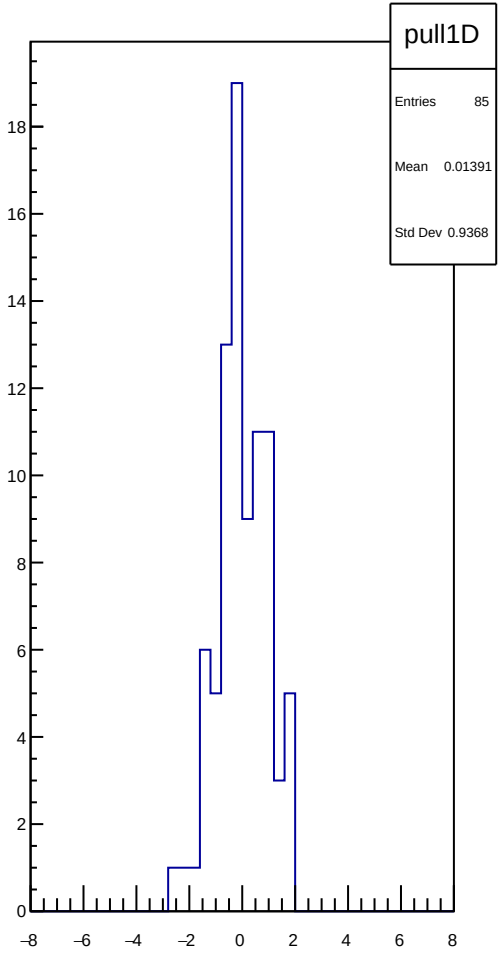

pull1D
Entries 85
Mean −0.00492
Std Dev 0.9998

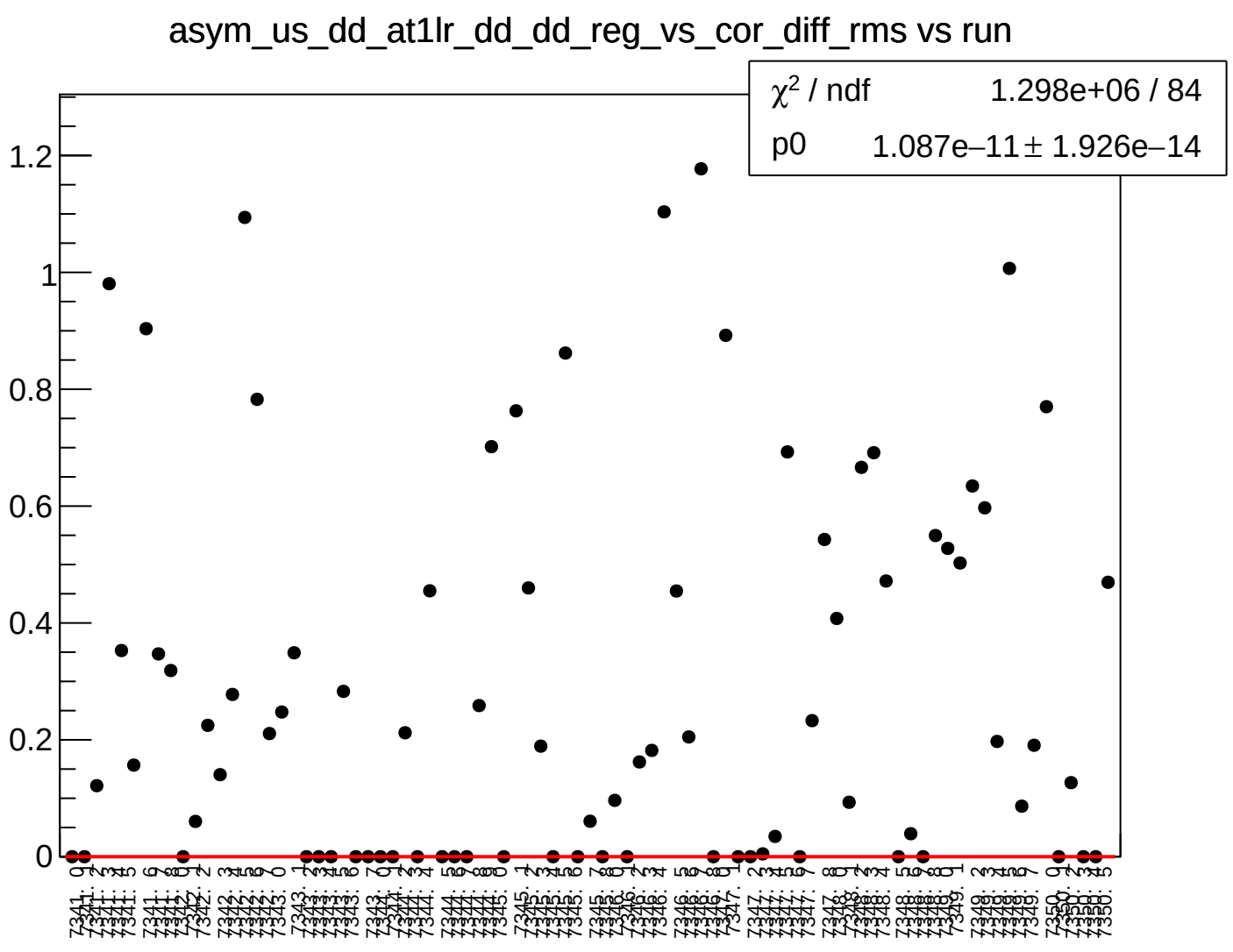

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4493 / 84
p0 863.4 ± 0.68
1150
1100
1050
1000
950
900
850
800
750

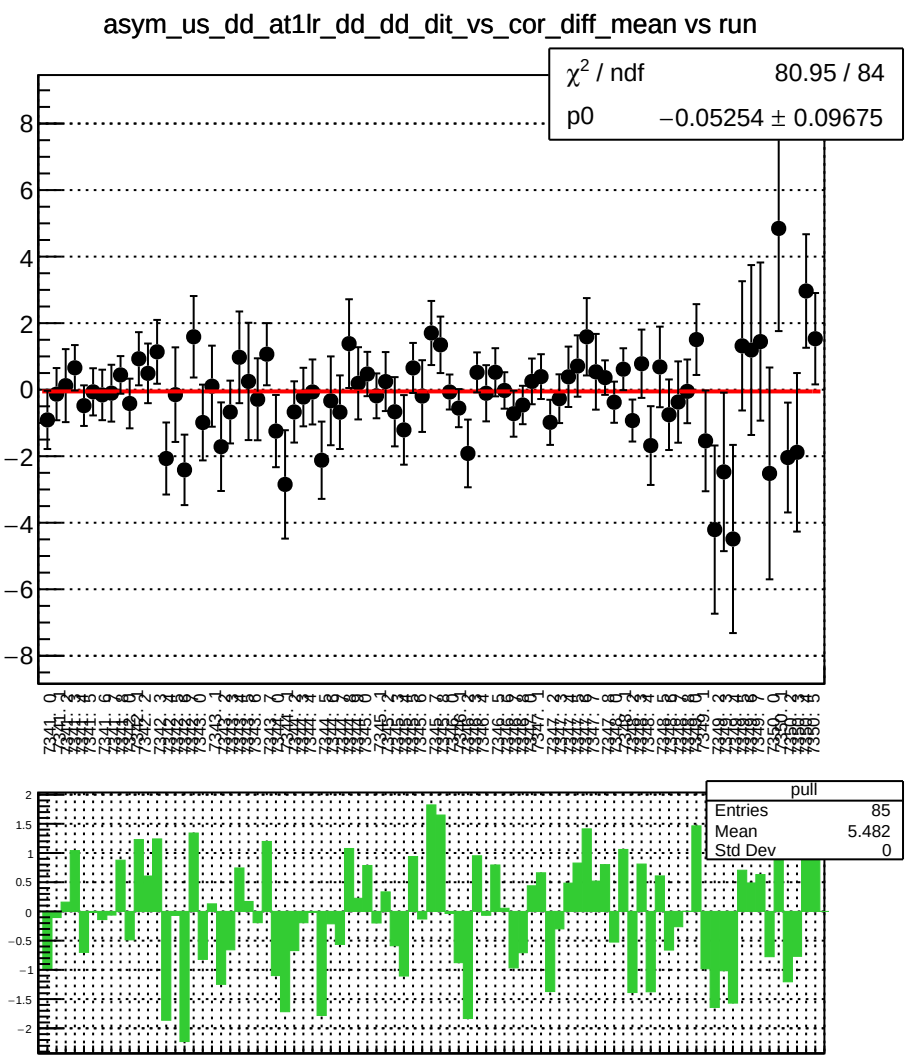

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 84.87 / 84
p0 3044 ± 2152
pull
Entries 85
Mean 195
Std Dev 0
pull1D
Entries 85
Mean −0.01064
Std Dev 0.9992

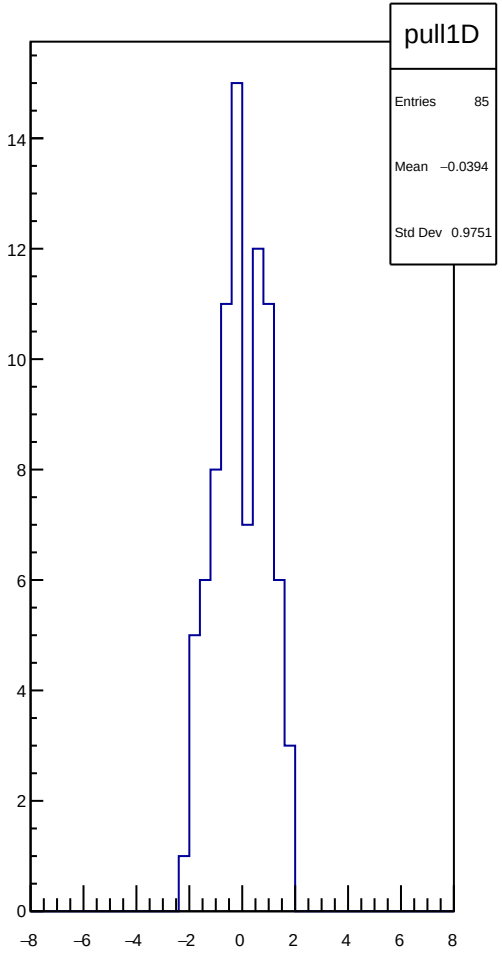

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 281.6 / 84
p0 1935 ± 1.522
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860

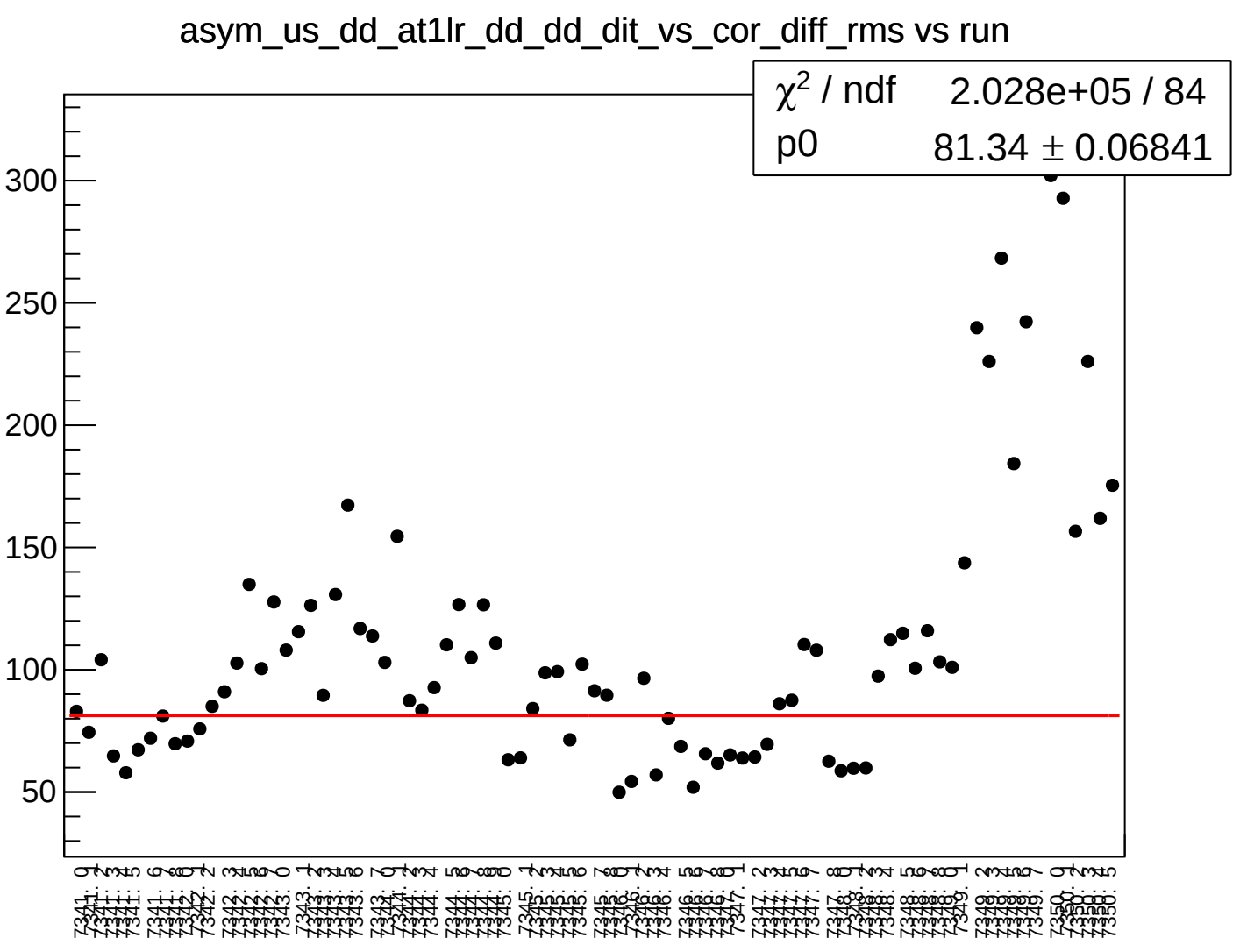

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.61 / 84
p0 1.902e−14 ± 2.724e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 85
Mean −84.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

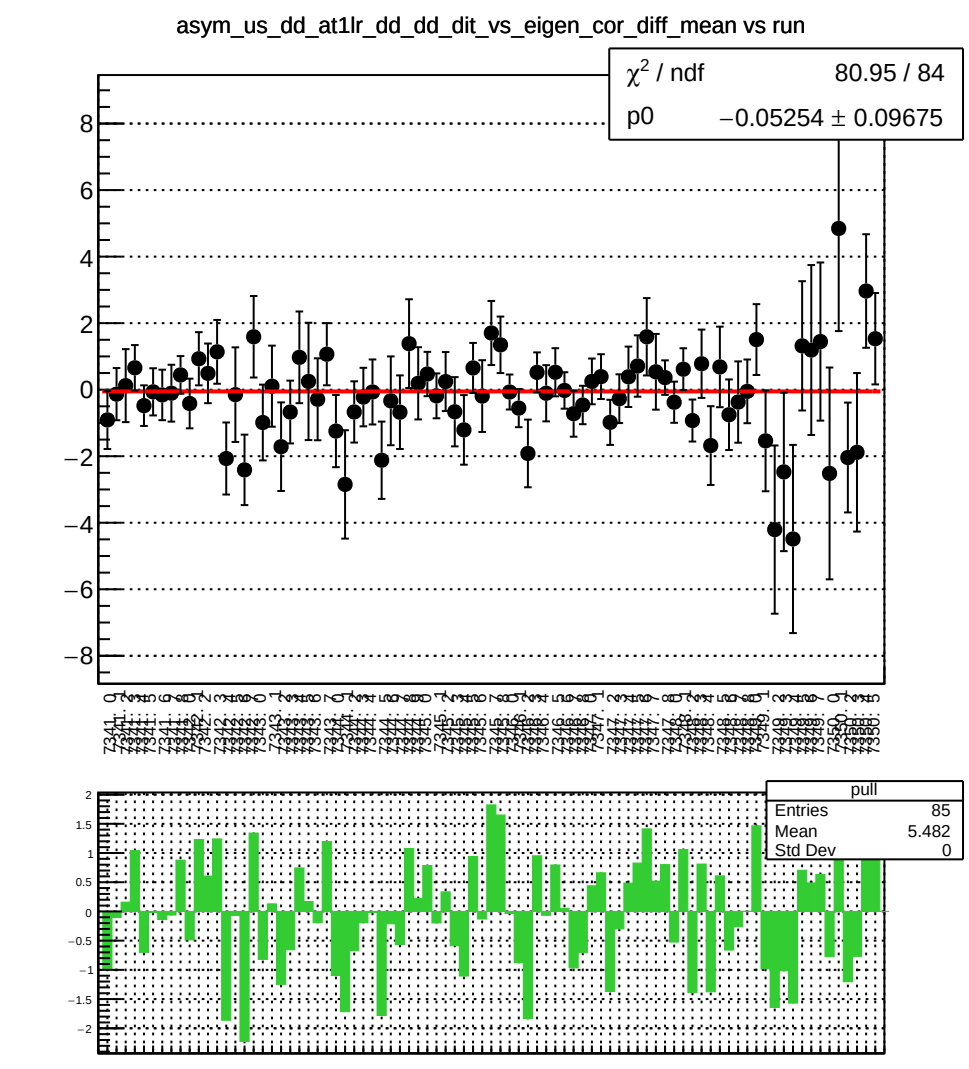

pull1D
Entries 85
Mean 0.01391
Std Dev 0.9368
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

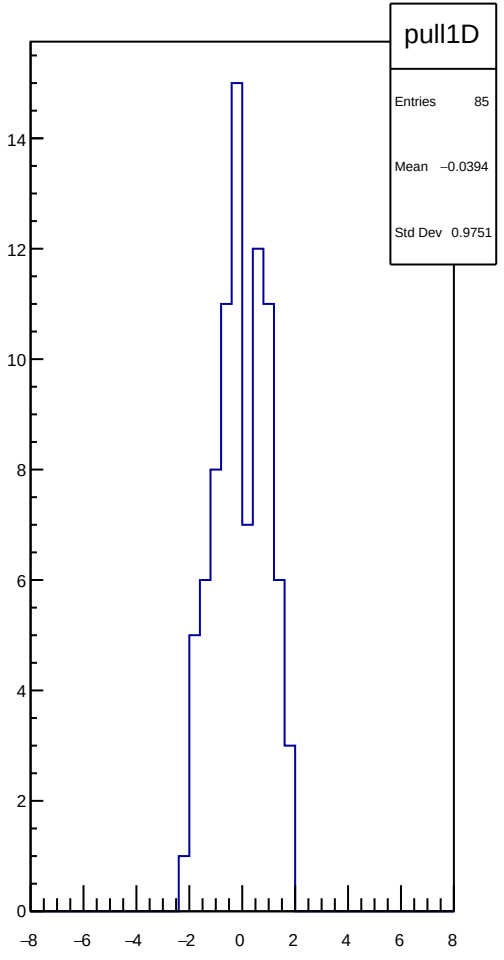

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.298e+06 / 84
p0 1.087e−11 ± 1.926e−14
1.2
1
0.8
0.6
0.4
0.2
0

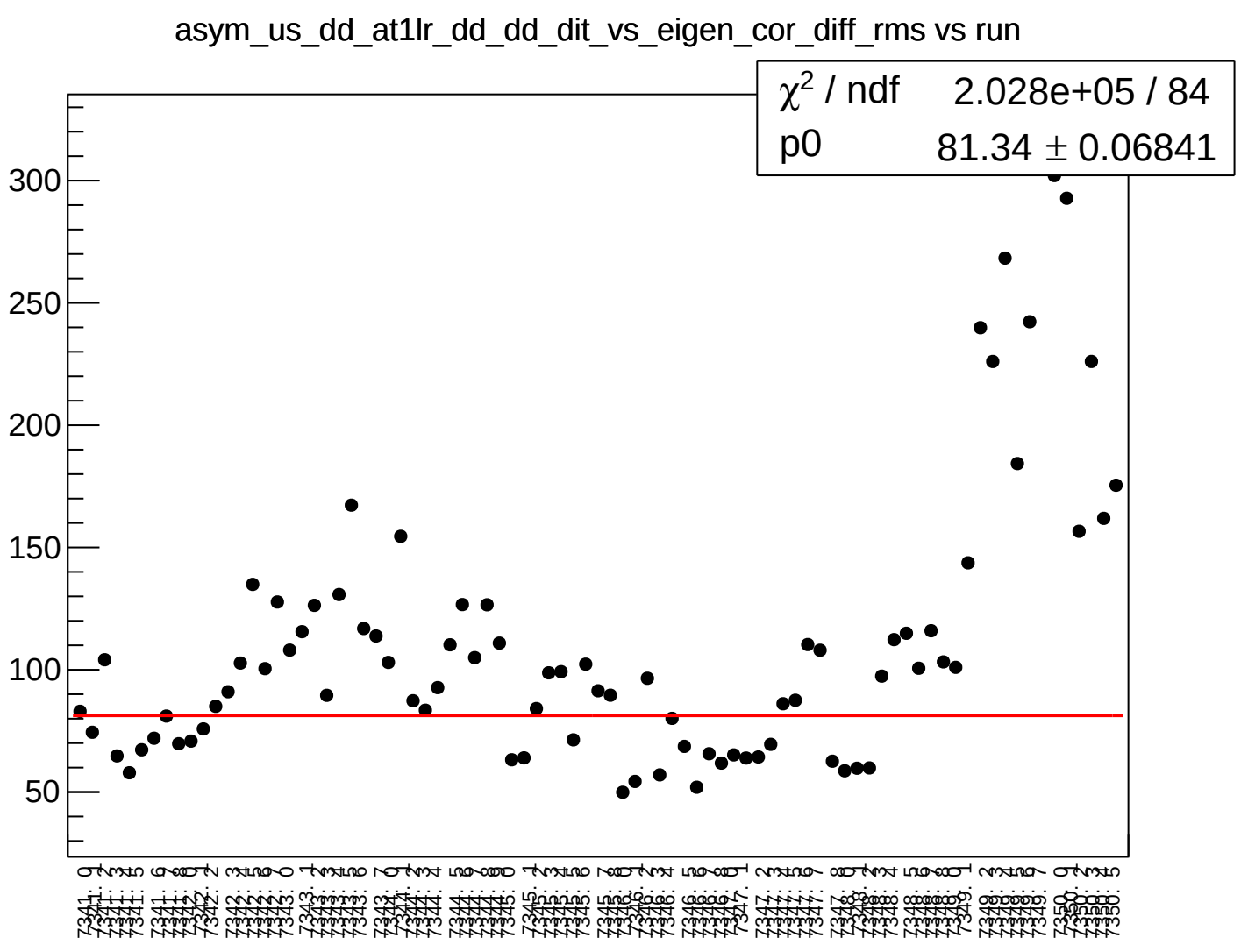

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.95 / 84
p0 −0.05254 ± 0.09675
pull
Entries 85
Mean 5.482
Std Dev 0

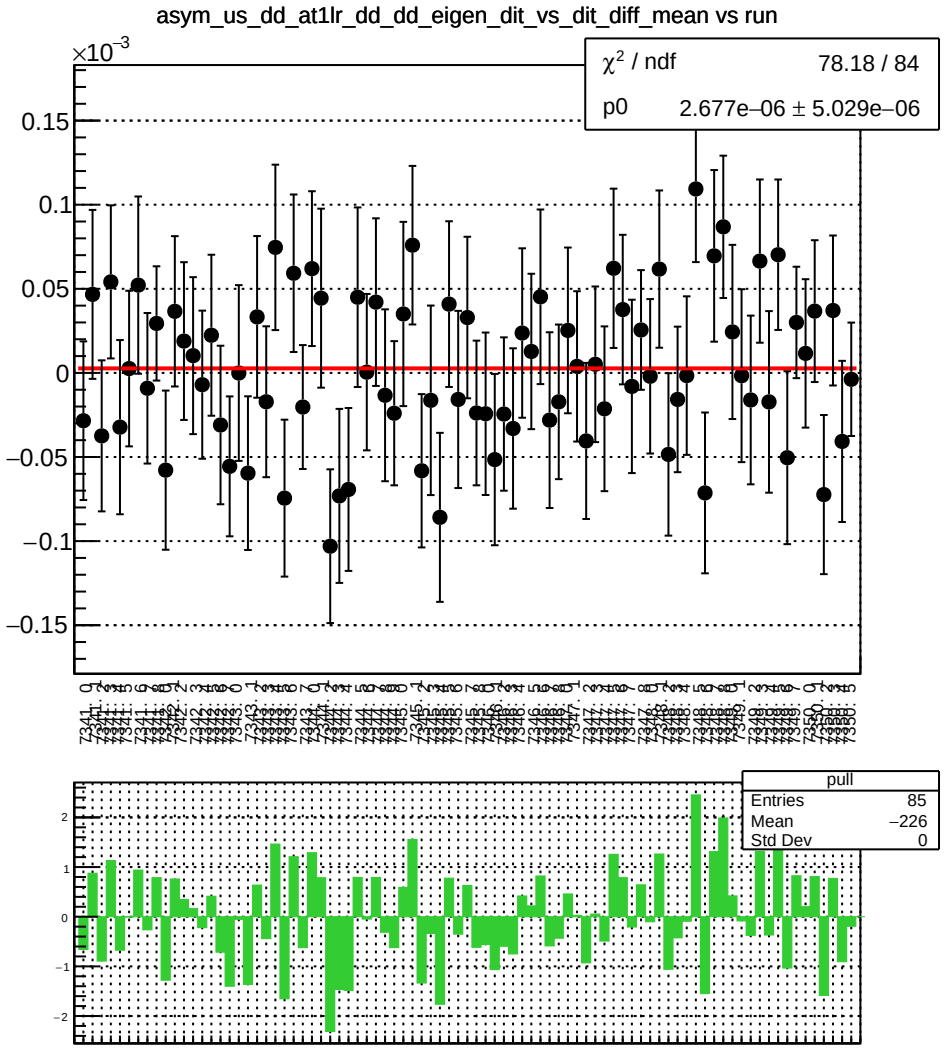

pull1D
Entries 85
Mean −0.0394
Std Dev 0.9751

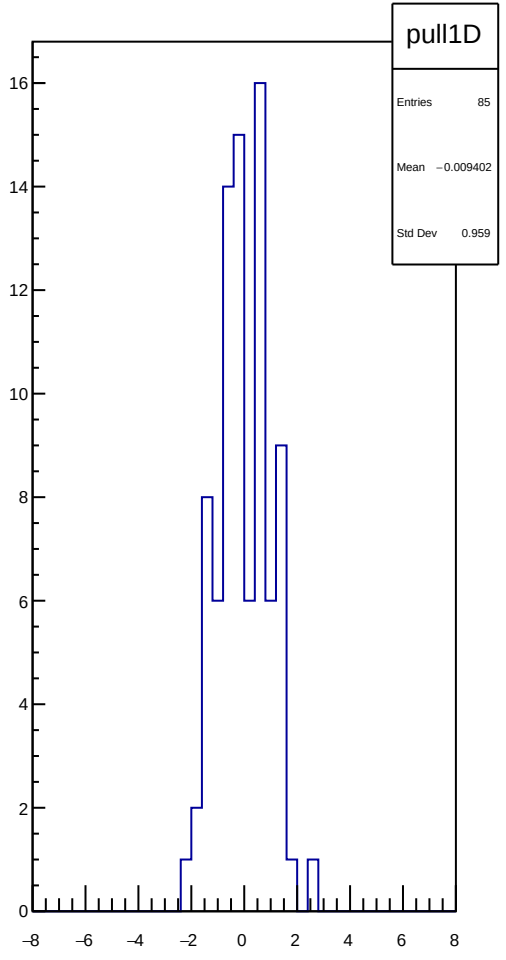

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.028e+05 / 84
p0 81.34 ± 0.06841
300
250
200
150
100
50

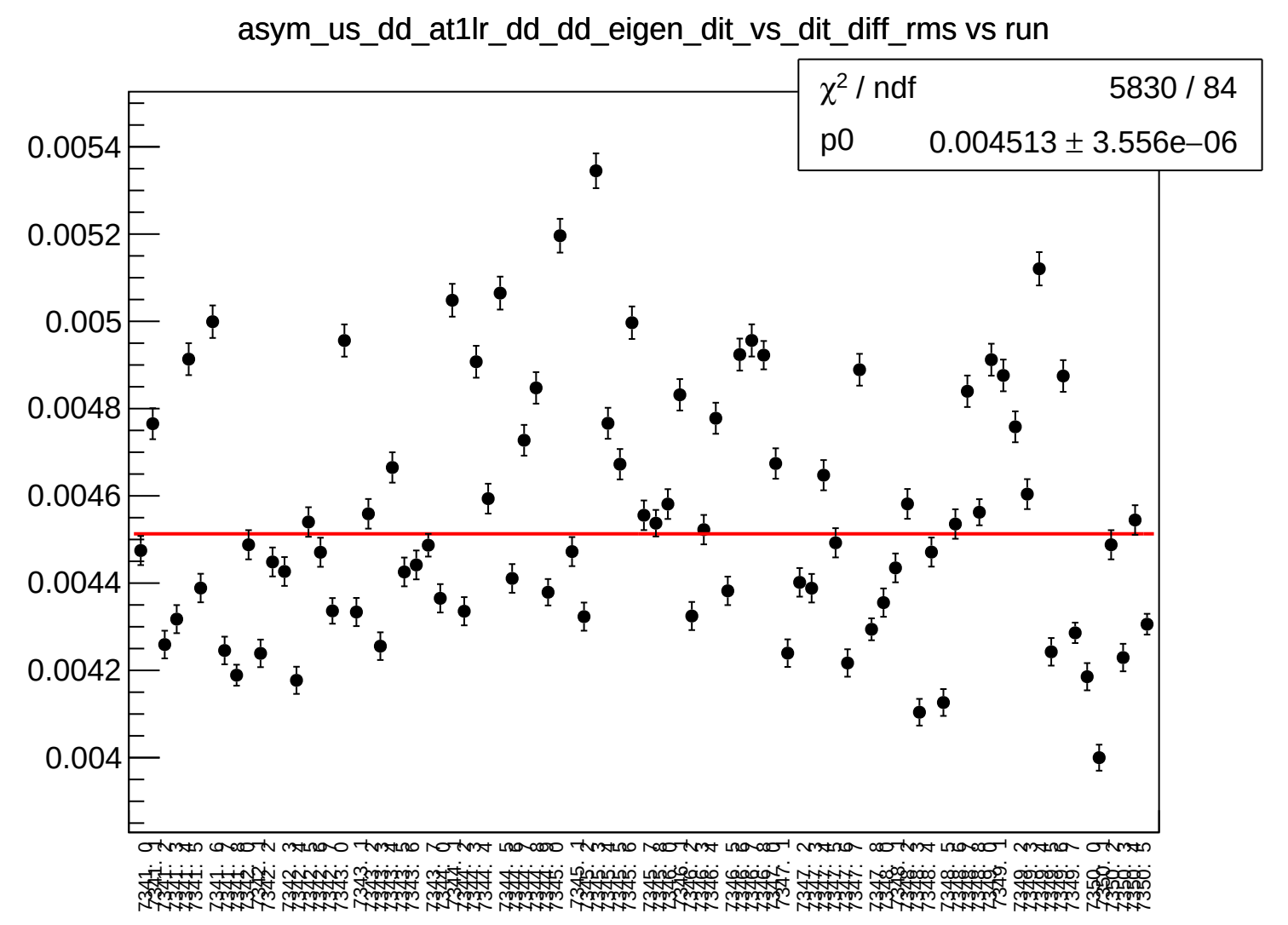

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.95 / 84
p0 −0.05254 ± 0.09675
pull
Entries 85
Mean 5.482
Std Dev 0

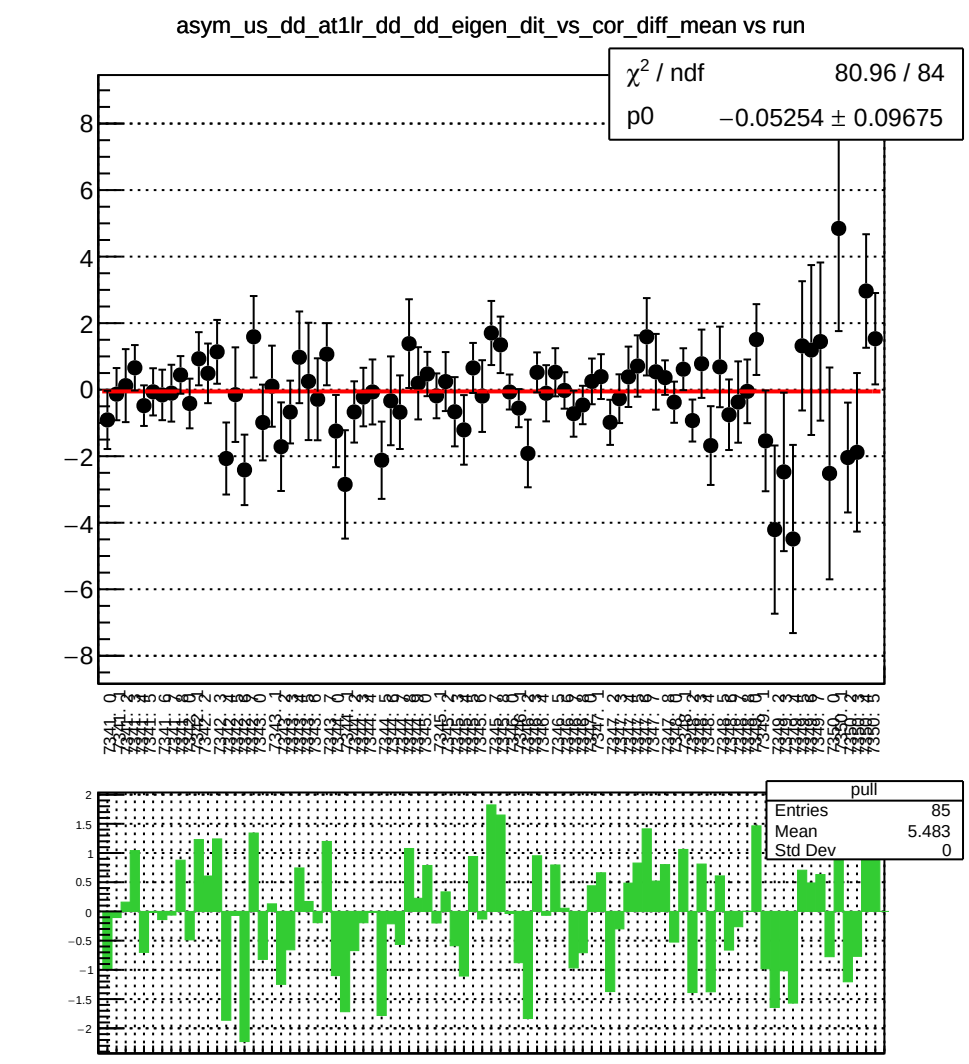

pull1D
Entries 85
Mean −0.0394
Std Dev 0.9751

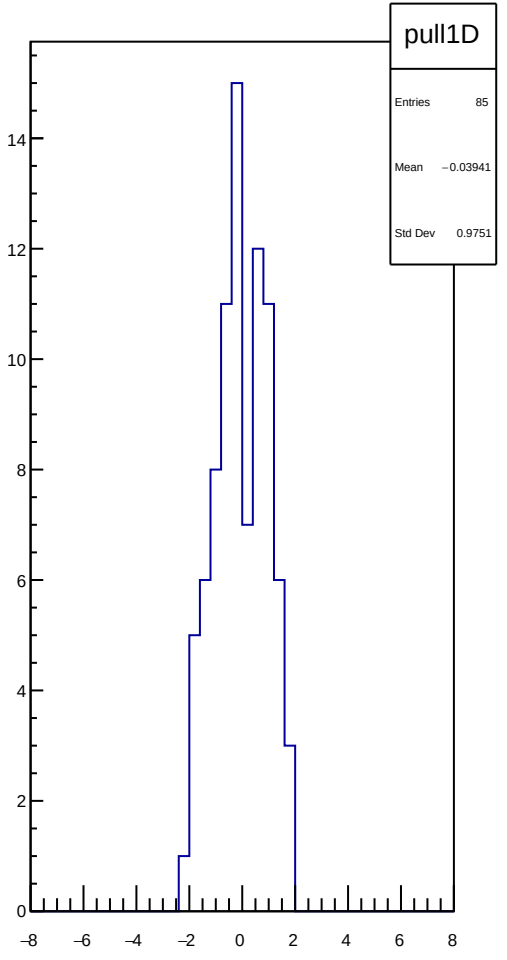

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.028e+05 / 84
p0 81.34 ± 0.06841
300
250
200
150
100
50

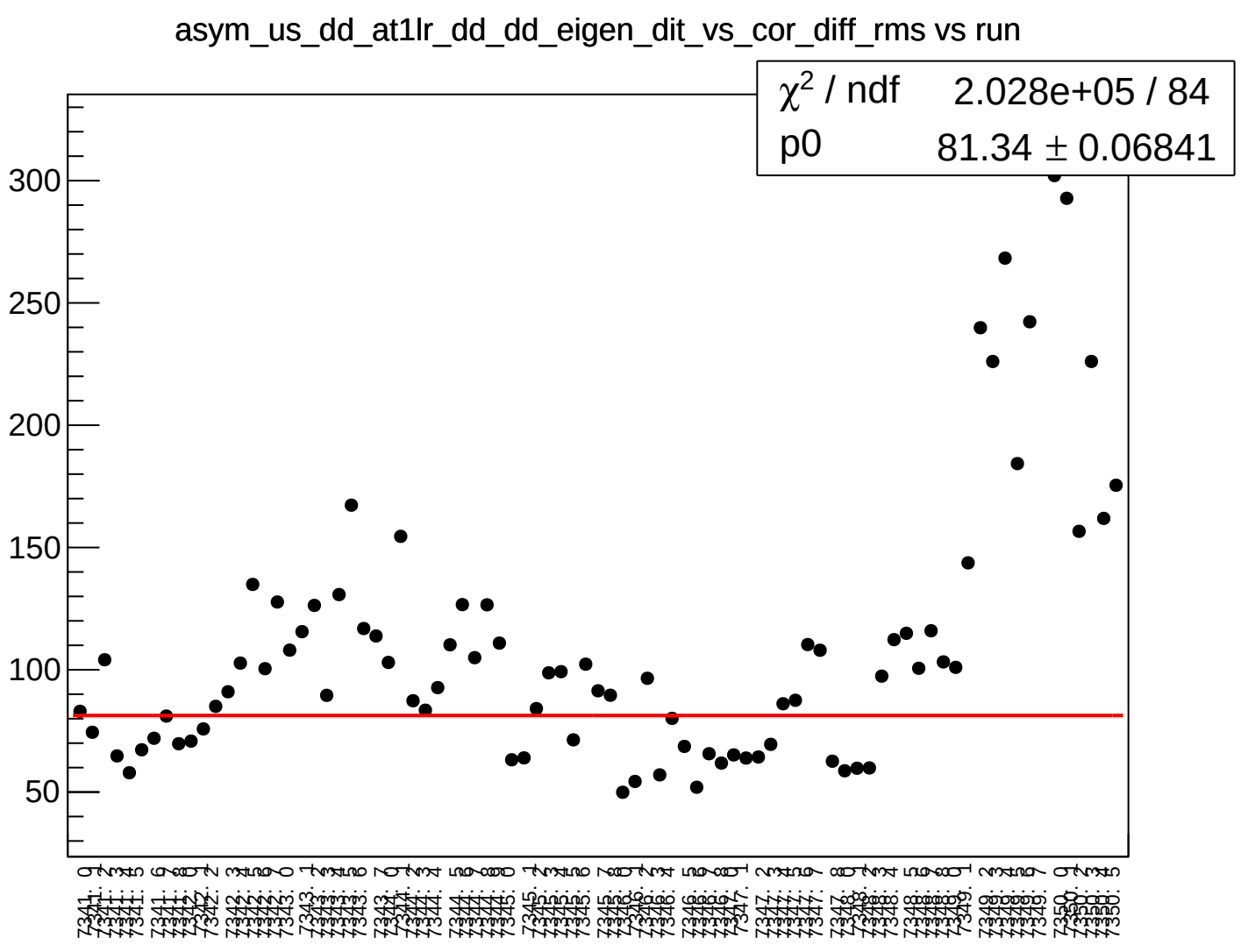

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.18 / 84
p0 2.677e−06 ± 5.029e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean −226
Std Dev 0
2
1
0
−1
−2

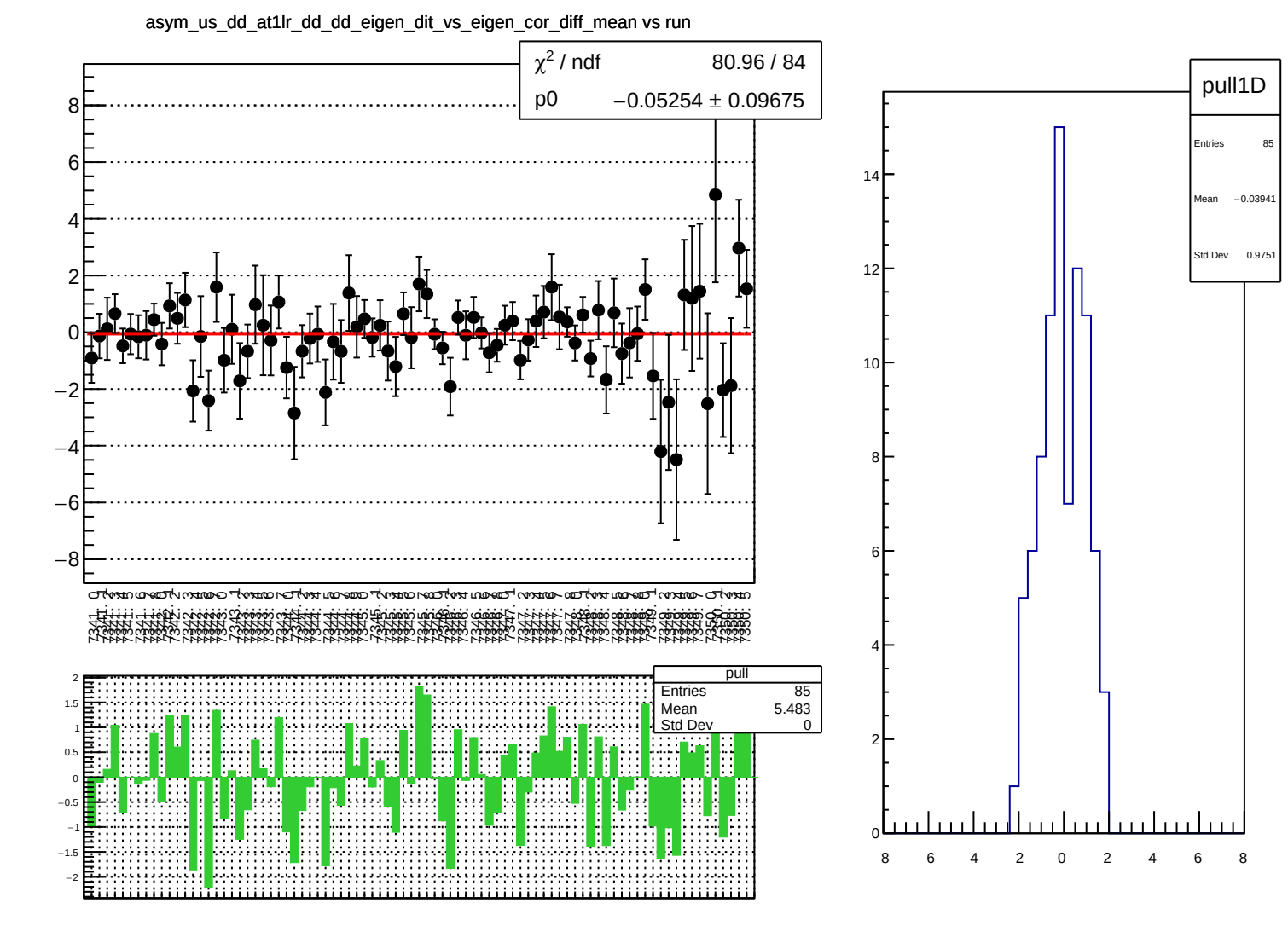

pull1D
Entries 85
Mean −0.009402
Std Dev 0.959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

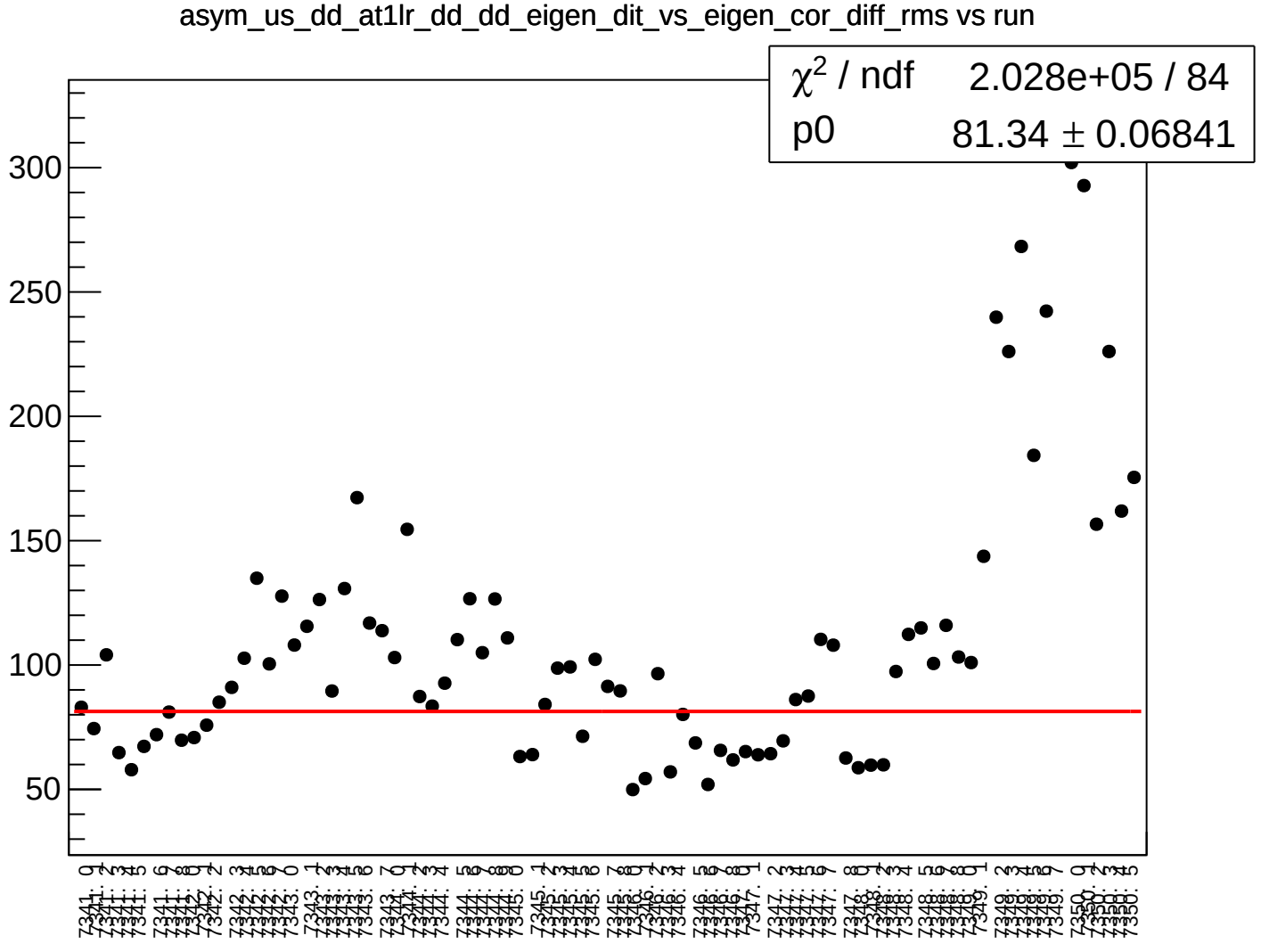

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5830 / 84
p0 0.004513 ± 3.556e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

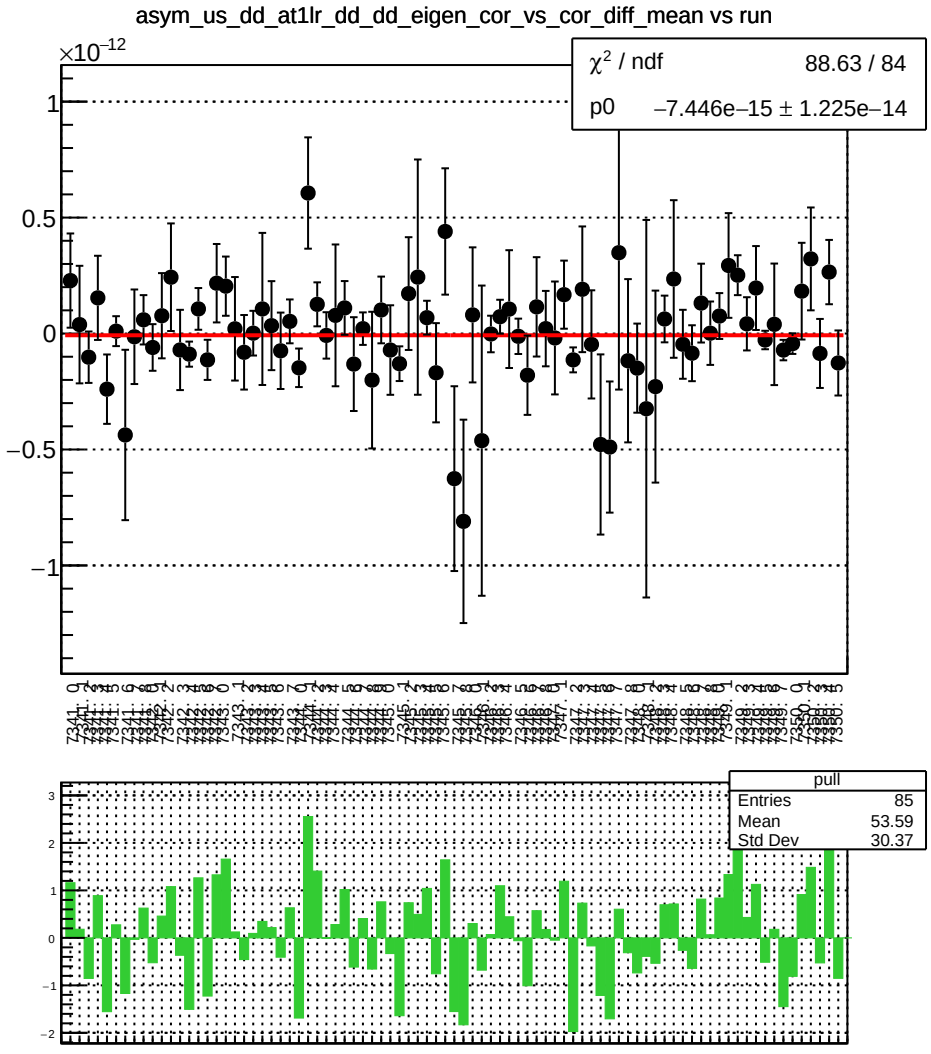

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.96 / 84
p0 −0.05254 ± 0.09675
pull
Entries 85
Mean 5.483
Std Dev 0

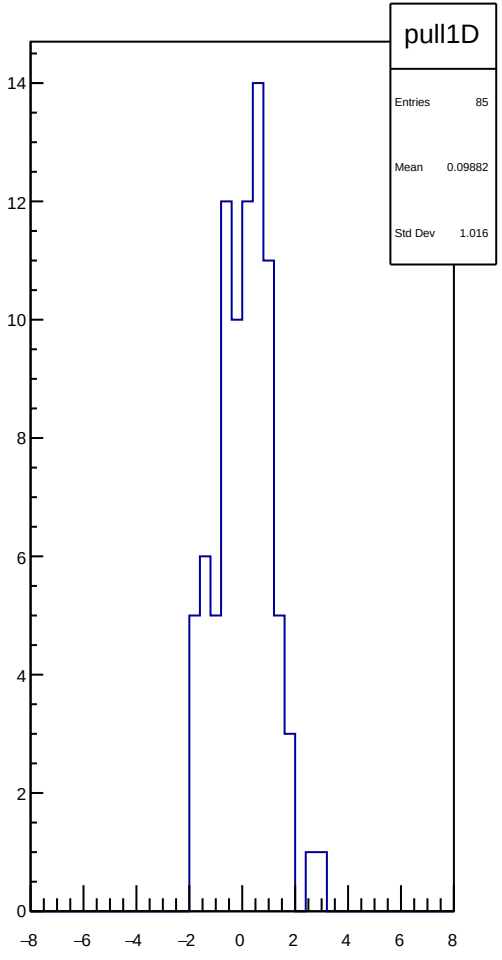

pull1D
Entries 85
Mean −0.03941
Std Dev 0.9751

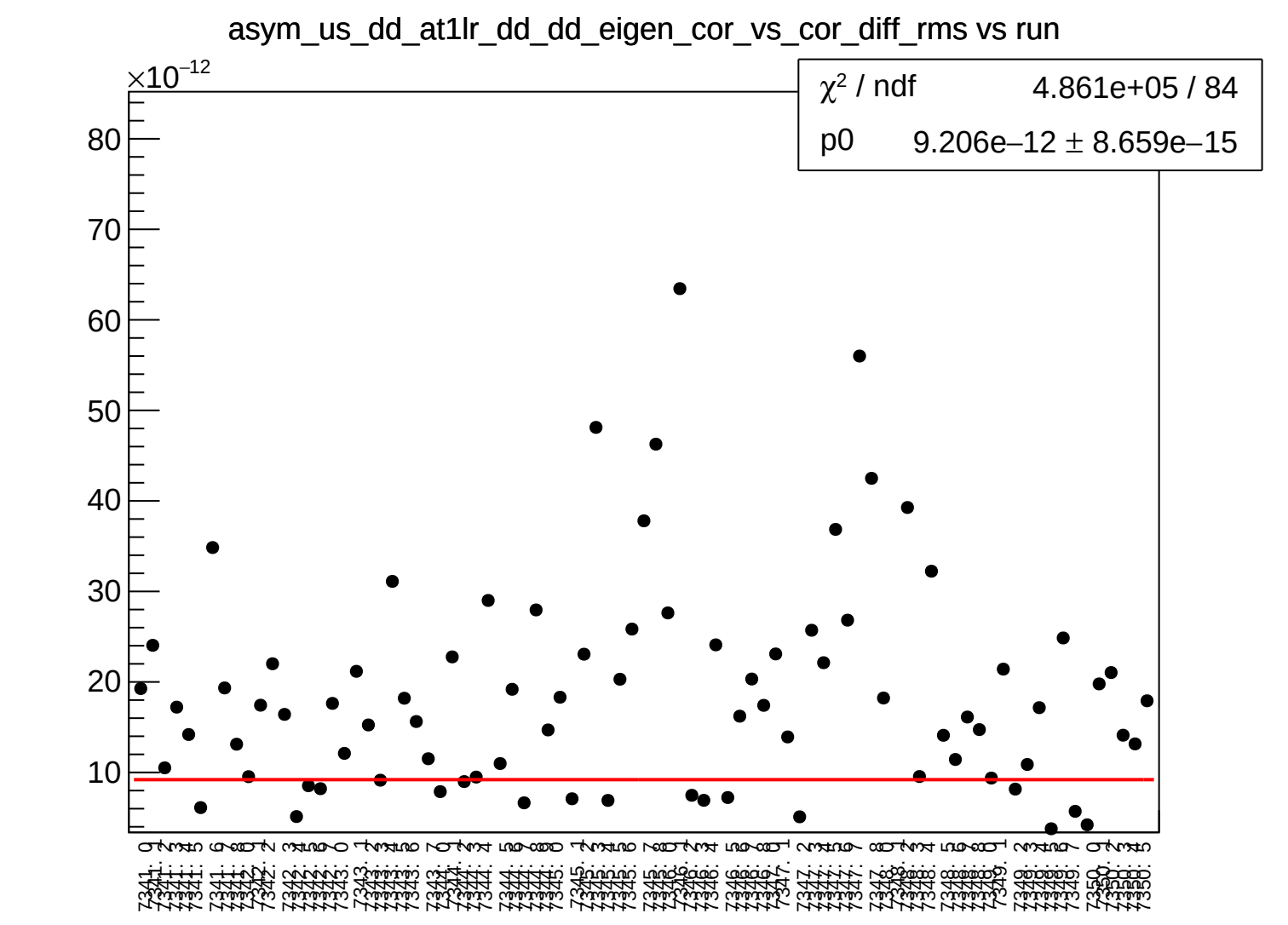

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.028e+05 / 84
p0 81.34 ± 0.06841
300
250
200
150
100
50

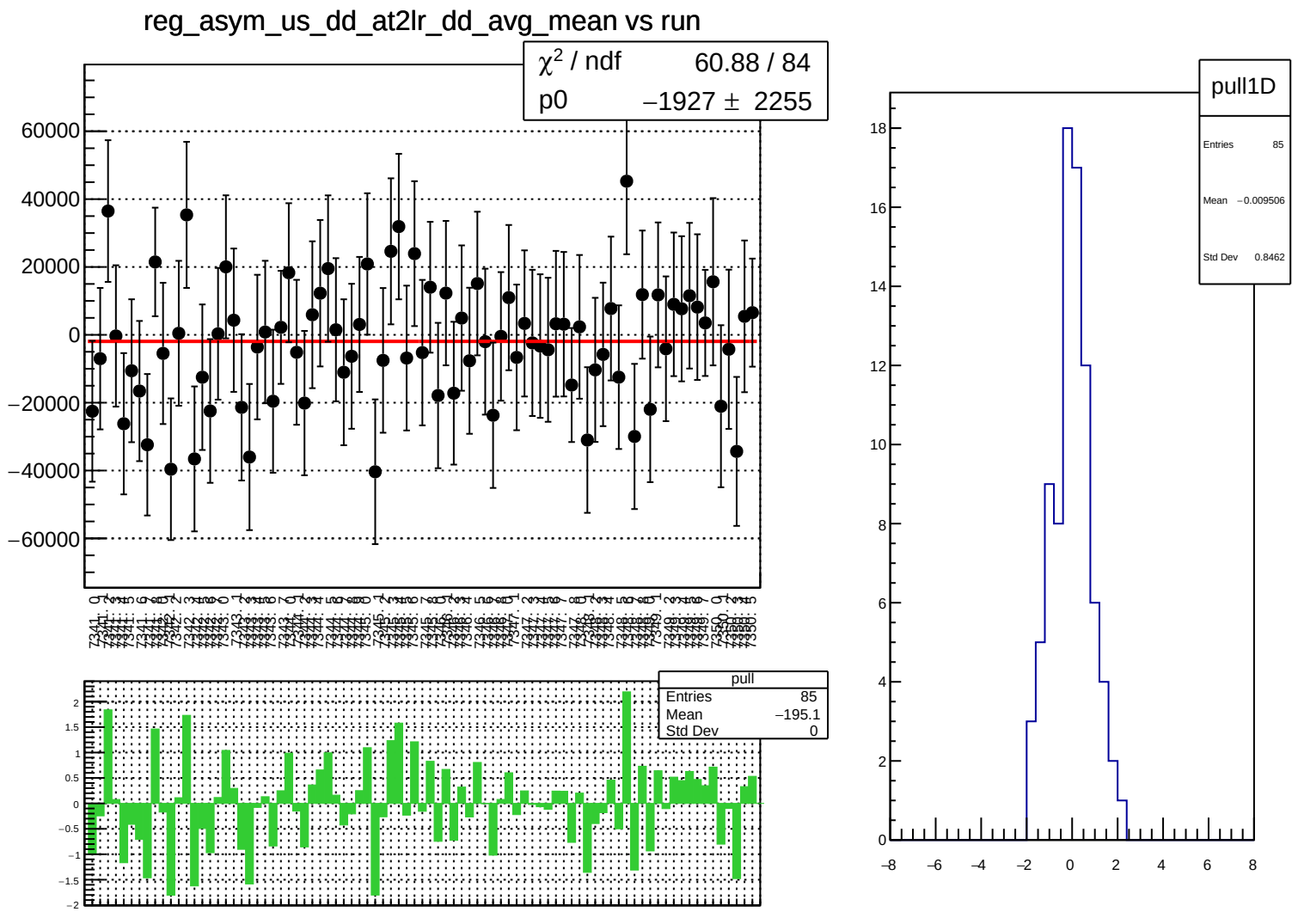

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.96 / 84
p0 −0.05254 ± 0.09675
pull
Entries 85
Mean 5.483
Std Dev 0
pull1D
Entries 85
Mean −0.03941
Std Dev 0.9751

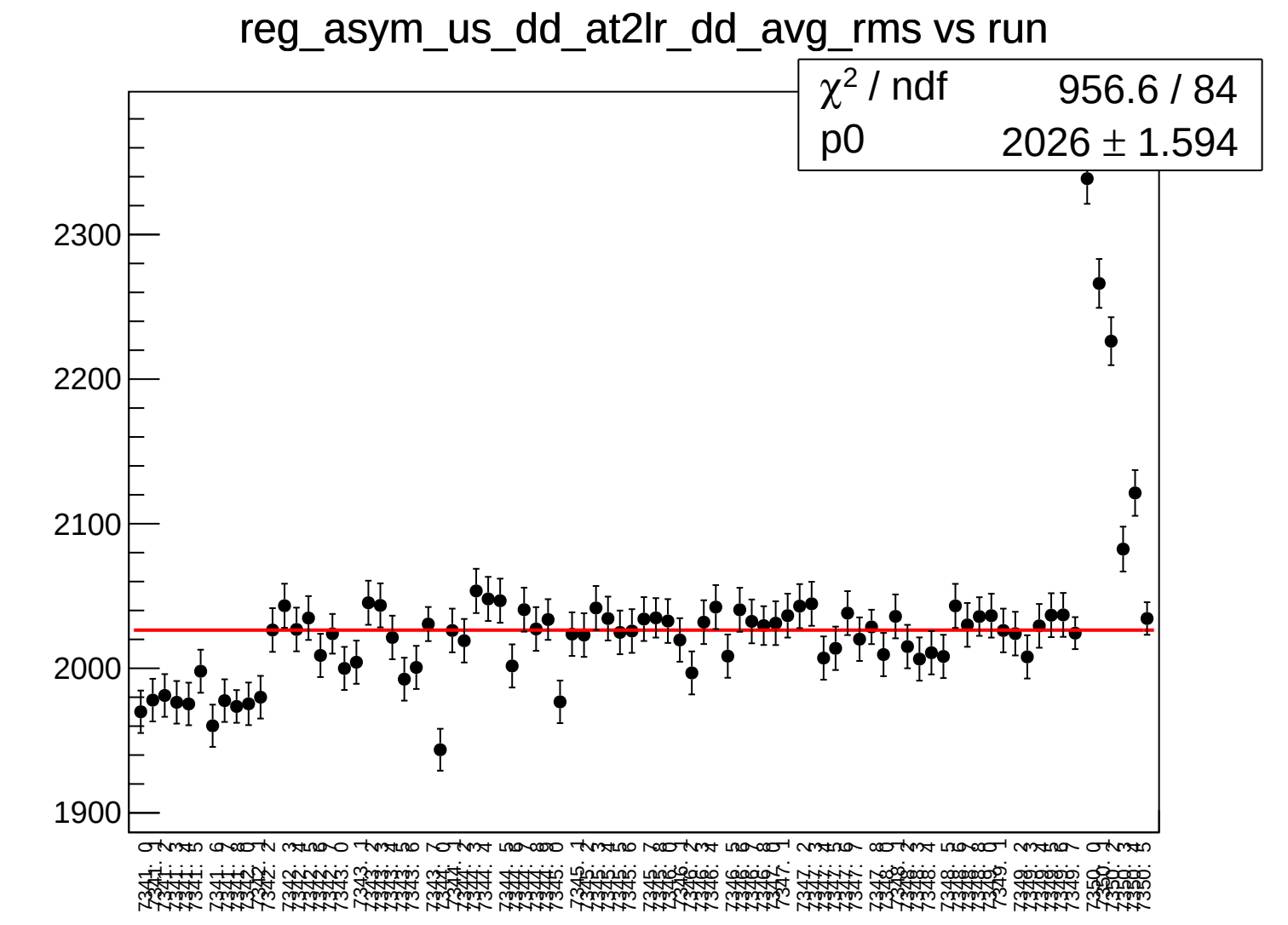

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.028e+05 / 84
p0 81.34 ± 0.06841
300
250
200
150
100
50

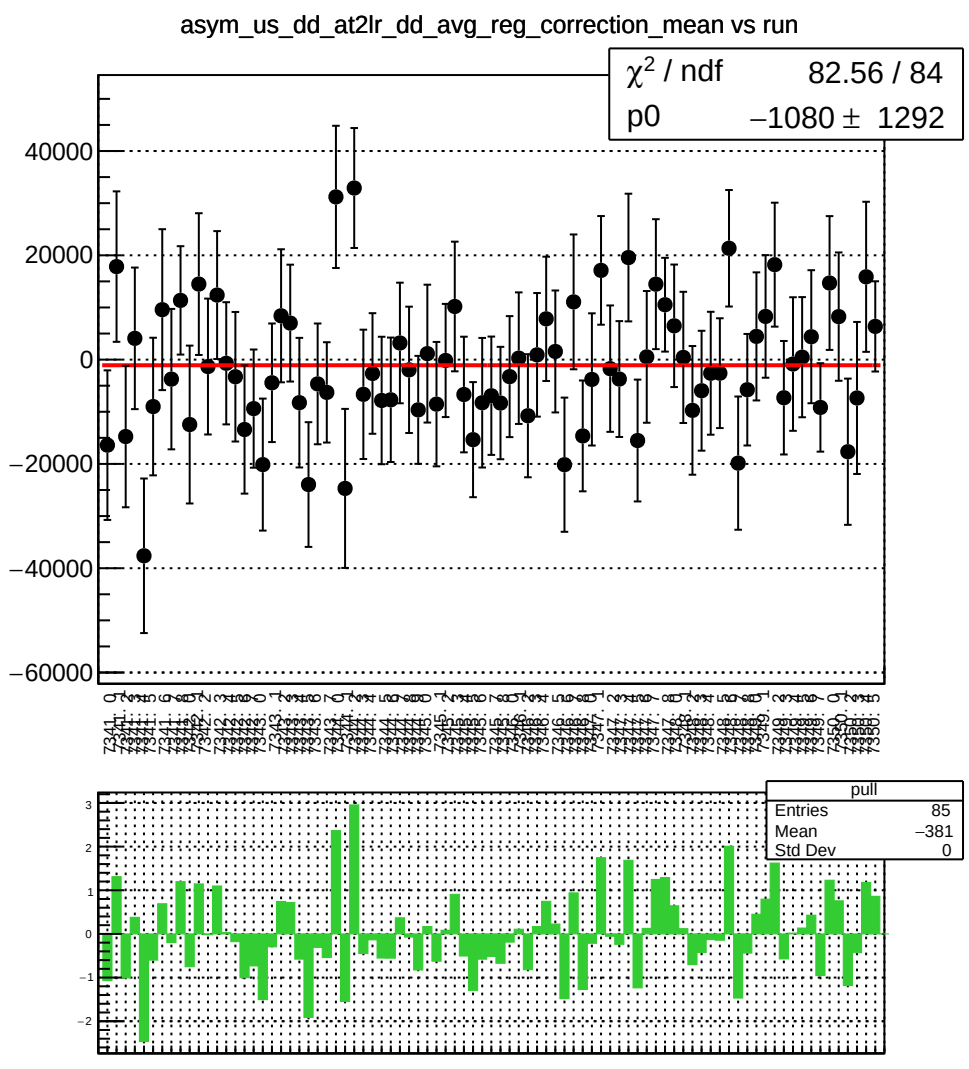

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.63 / 84
p0 −7.446e−15 ± 1.225e−14
pull
Entries 85
Mean 53.59
Std Dev 30.37

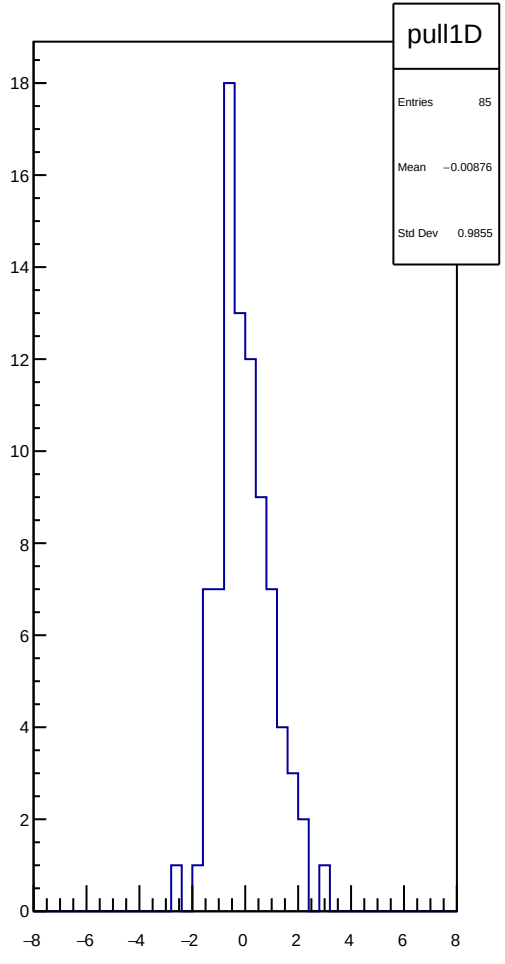

pull1D
Entries 85
Mean 0.09882
Std Dev 1.016

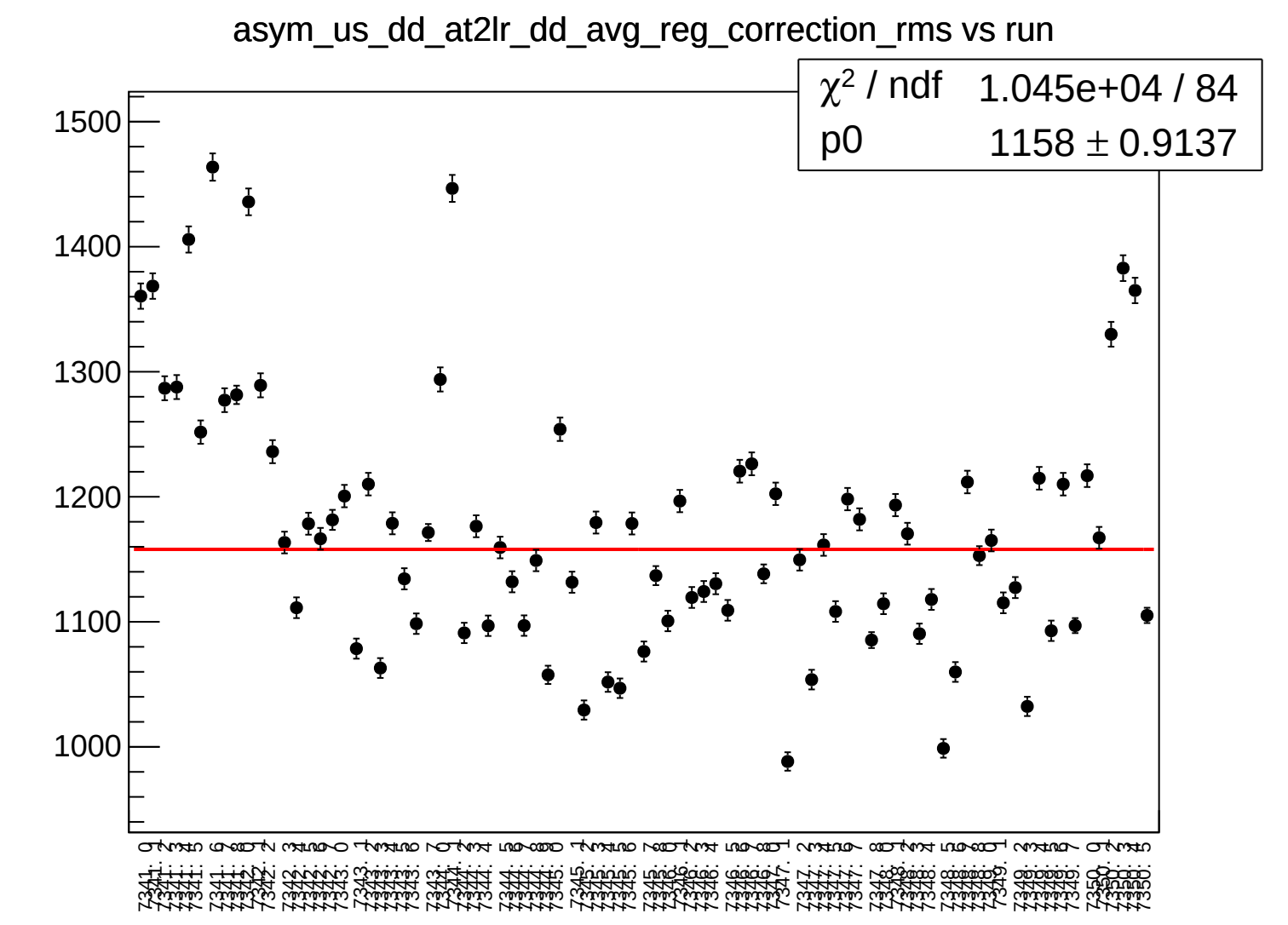

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.861e+05 / 84
p0 9.206e−12 ± 8.659e−15
80
70
60
50
40
30
20
10

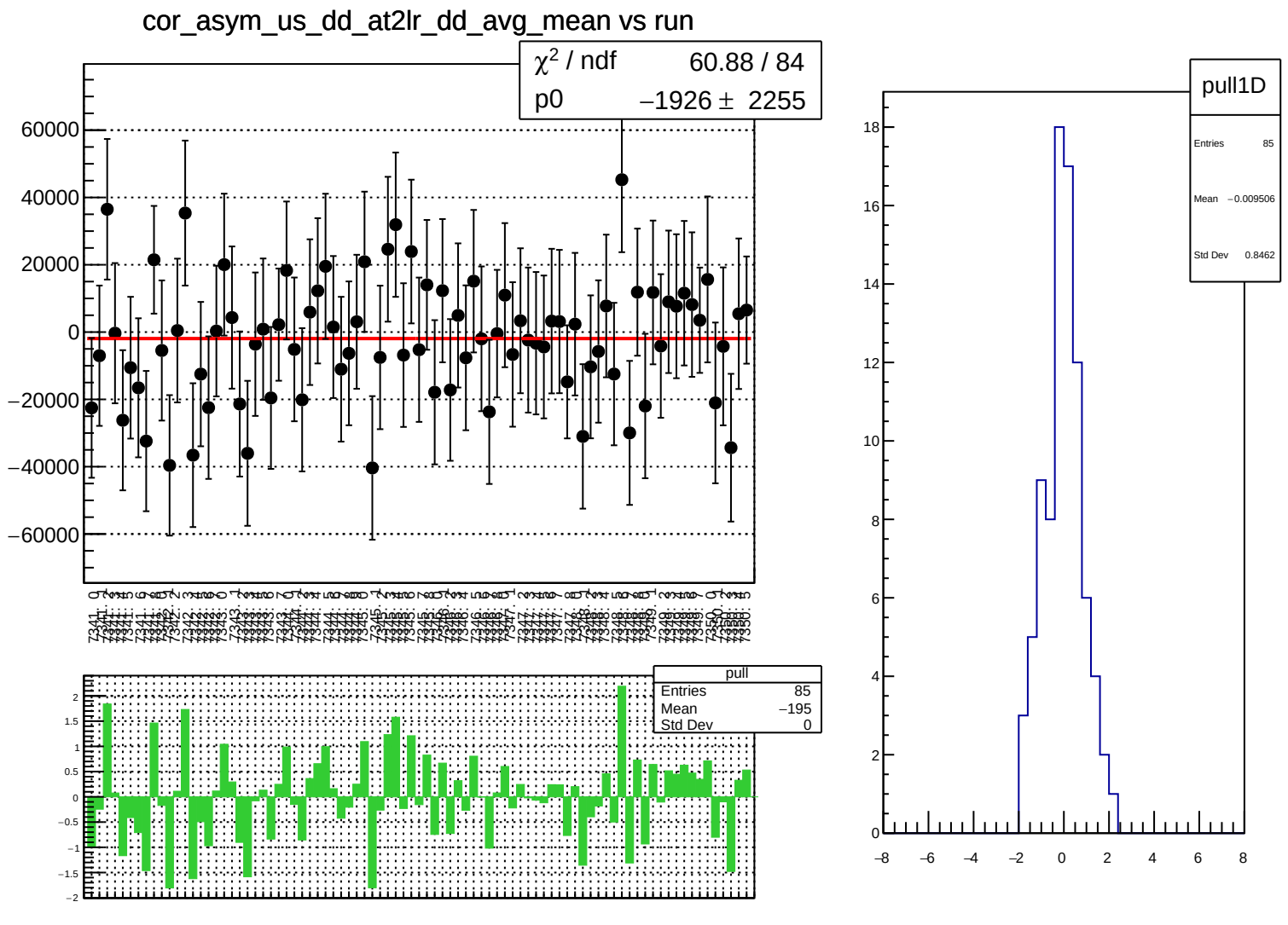

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 60.88 / 84
p0 −1927 ± 2255
pull
Entries 85
Mean −195.1
Std Dev 0
pull1D
Entries 85
Mean −0.009506
Std Dev 0.8462

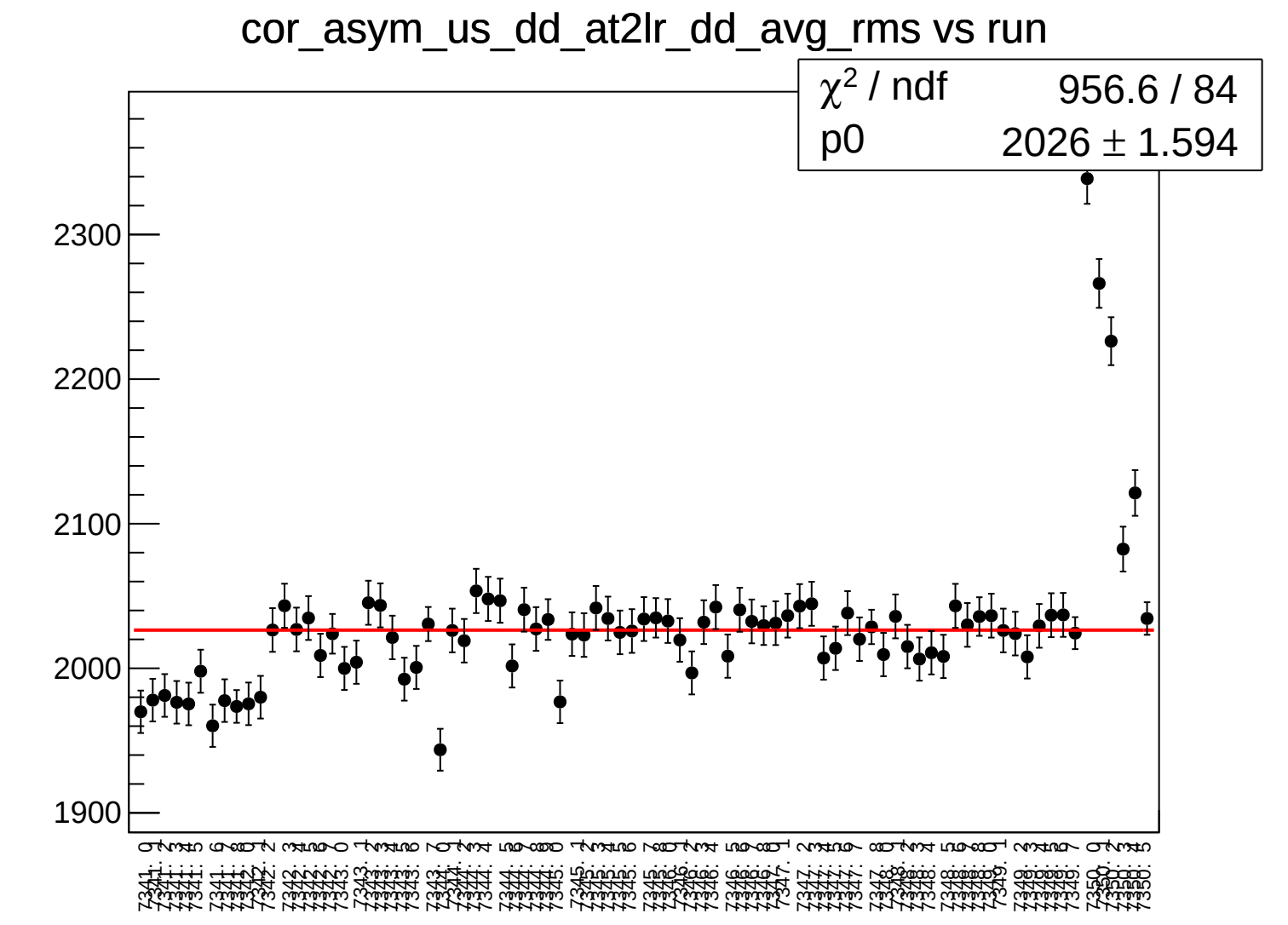

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 956.6 / 84
p0 2026 ± 1.594
2300
2200
2100
2000
1900

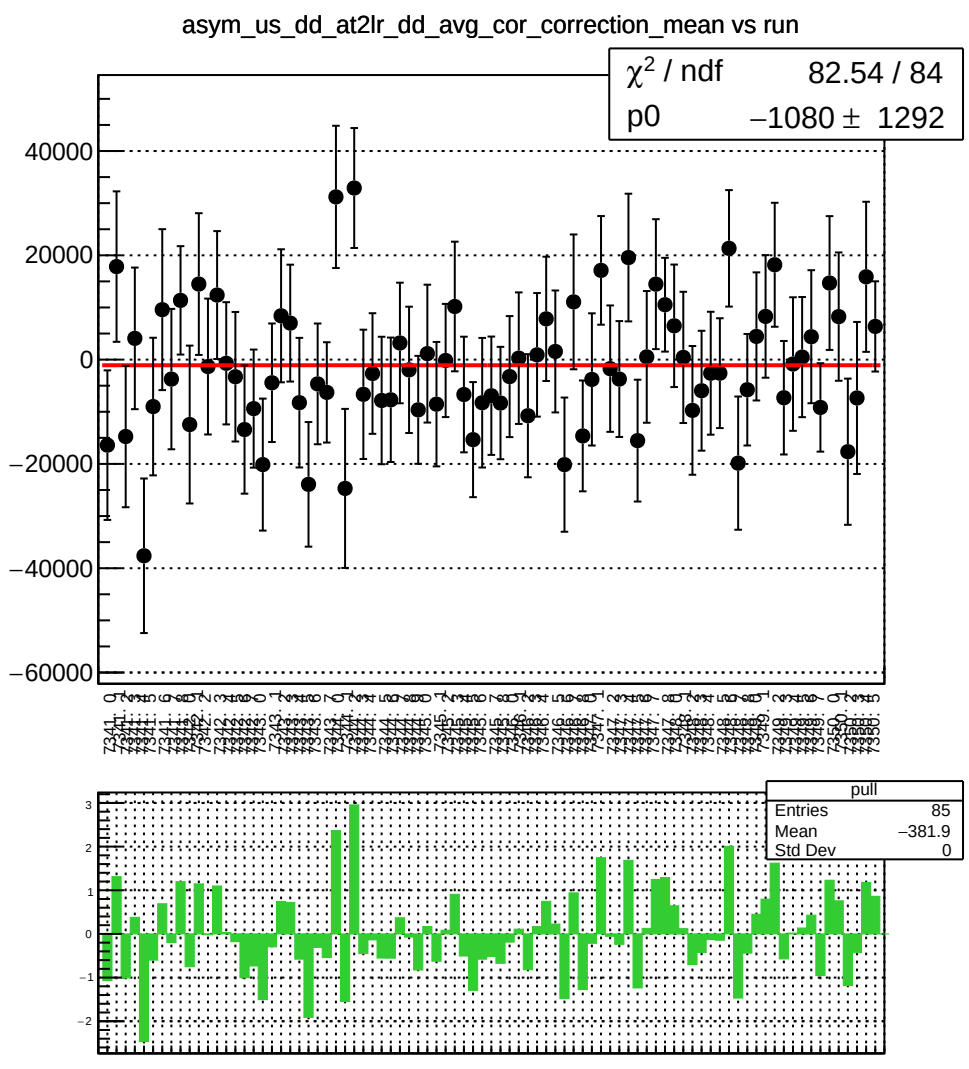

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 82.56 / 84
p0 −1080 ± 1292
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −381
Std Dev 0
3
2
1
0
−1
−2

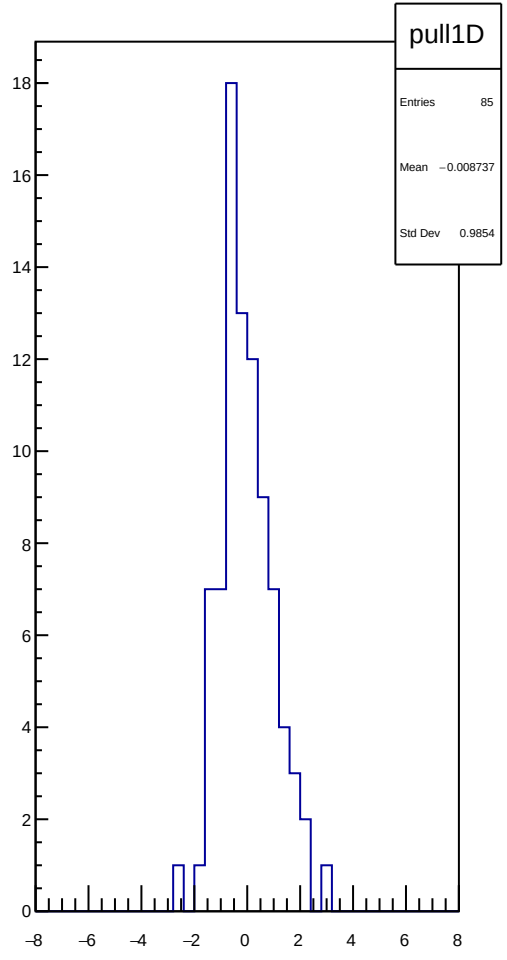

pull1D
Entries 85
Mean −0.00876
Std Dev 0.9855
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

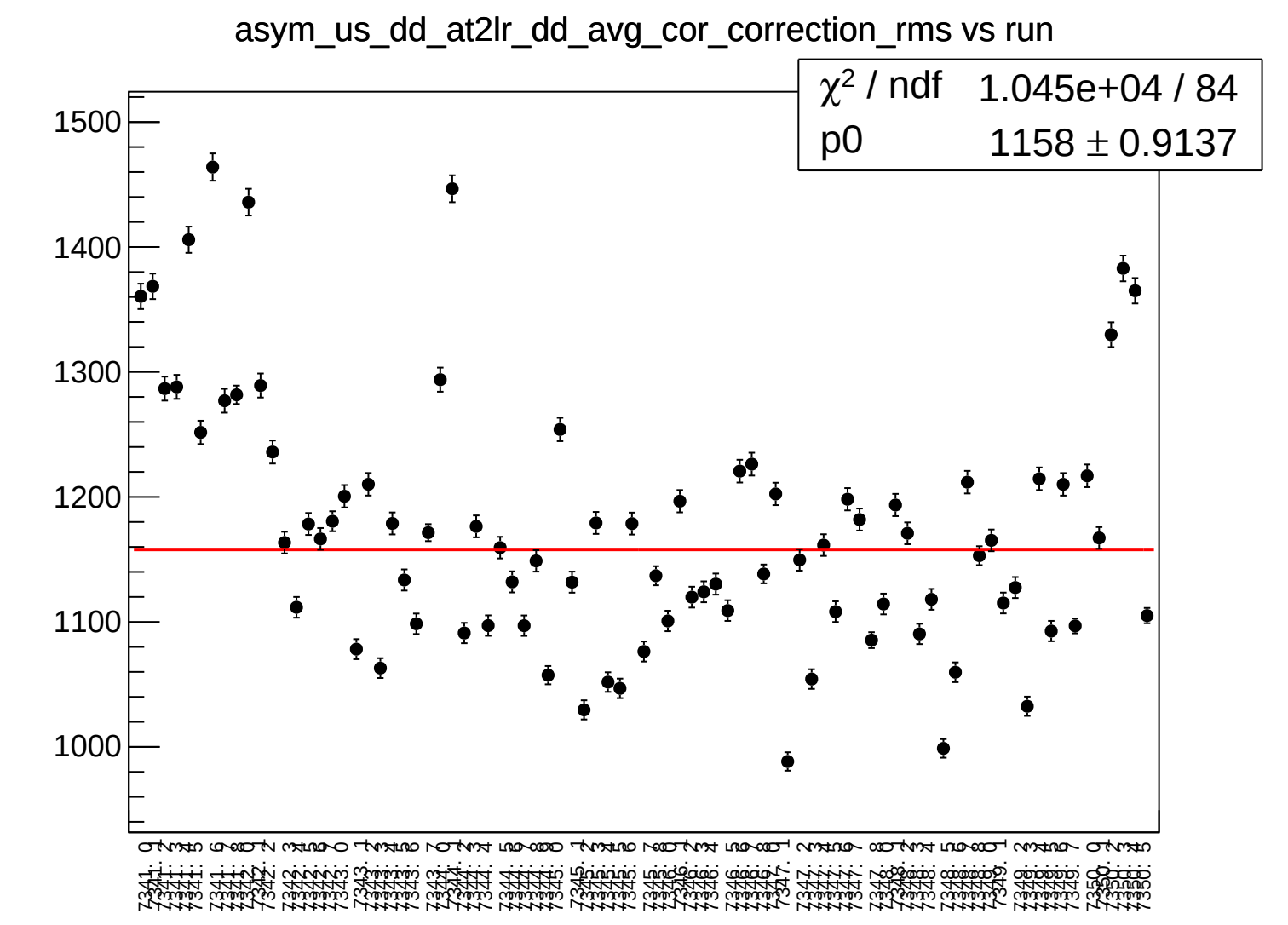

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.045e+04 / 84
p0 1158 ± 0.9137
1500
1400
1300
1200
1100
1000

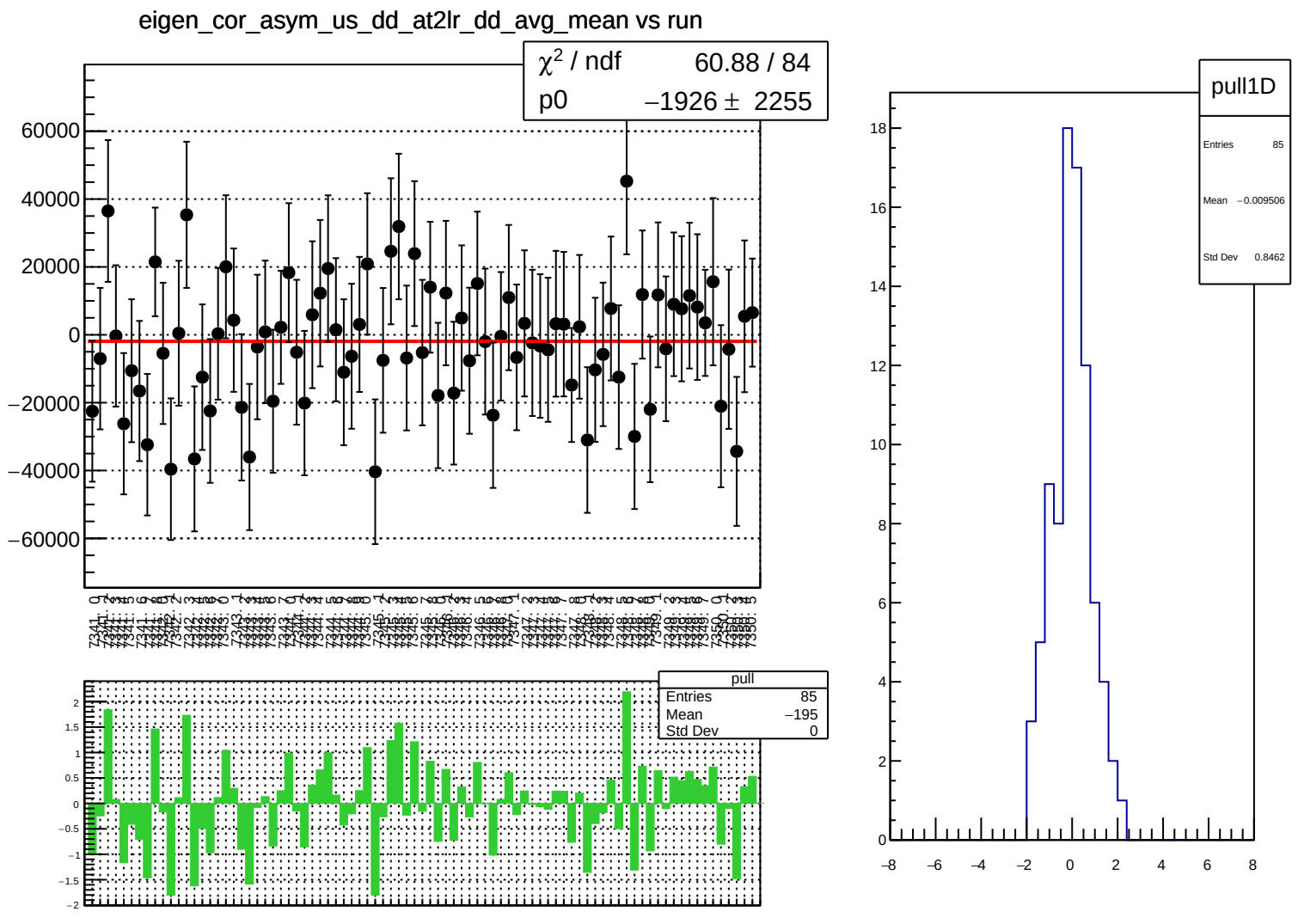

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 60.88 / 84
p0 −1926 ± 2255
pull
Entries 85
Mean −195
Std Dev 0
pull1D
Entries 85
Mean −0.009506
Std Dev 0.8462

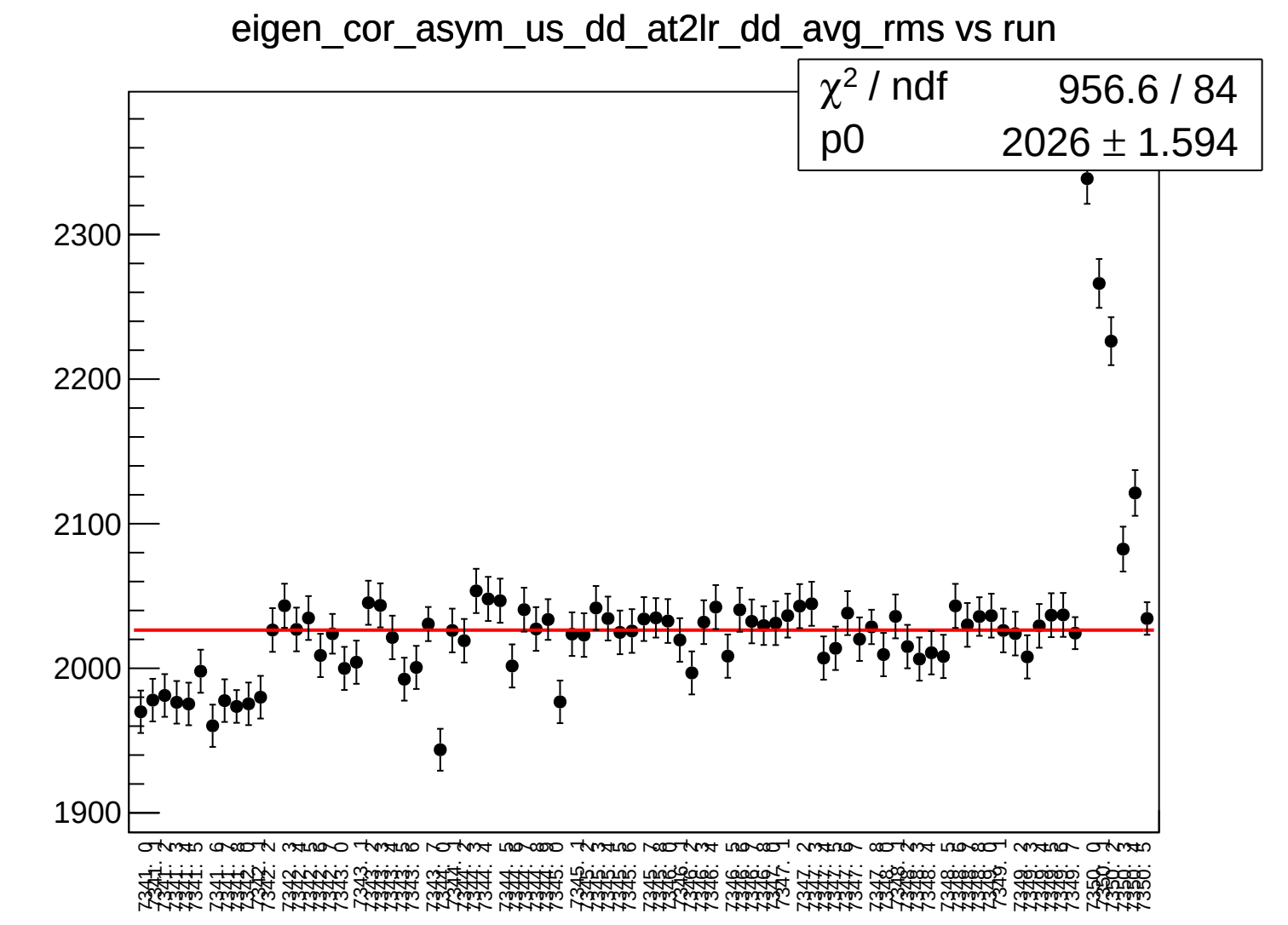

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 956.6 / 84
p0 2026 ± 1.594
2300
2200
2100
2000
1900

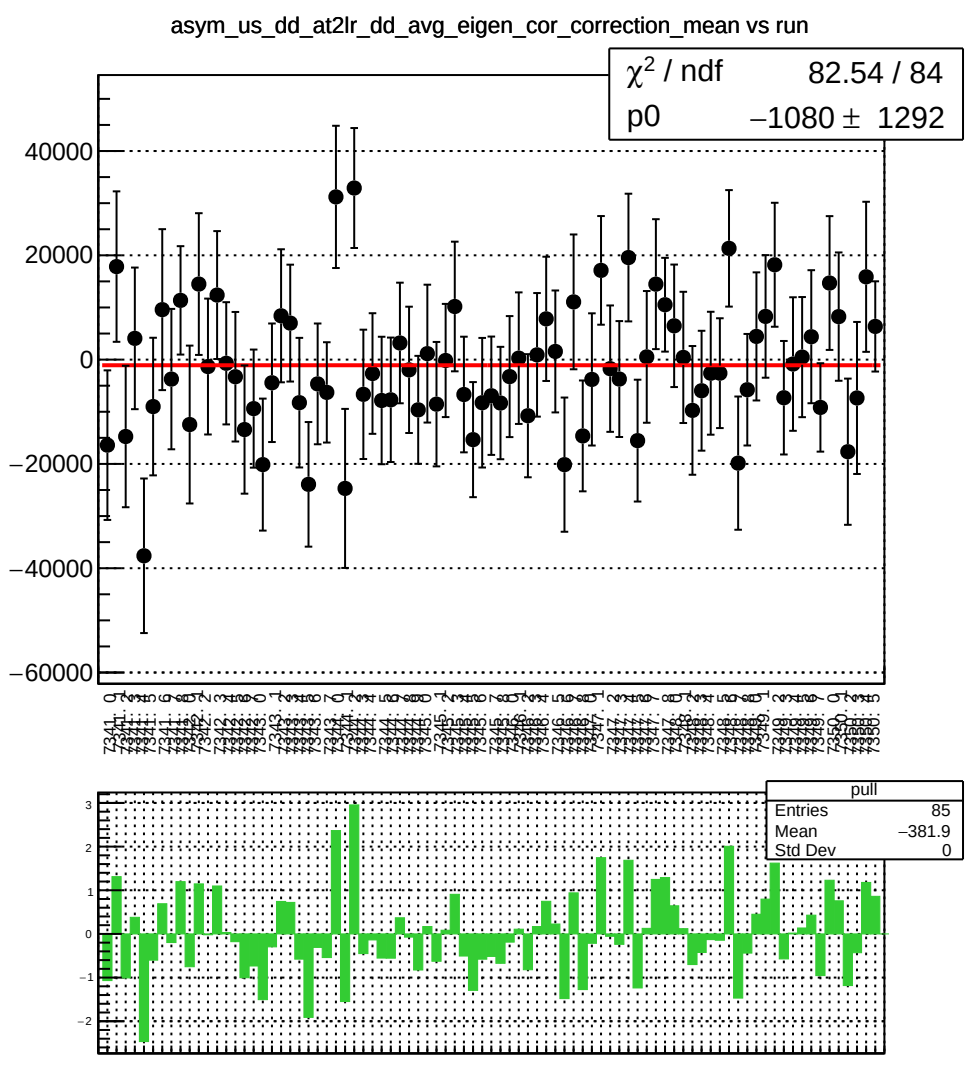

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 82.54 / 84
p0 −1080 ± 1292
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −381.9
Std Dev 0
3
2
1
0
−1
−2

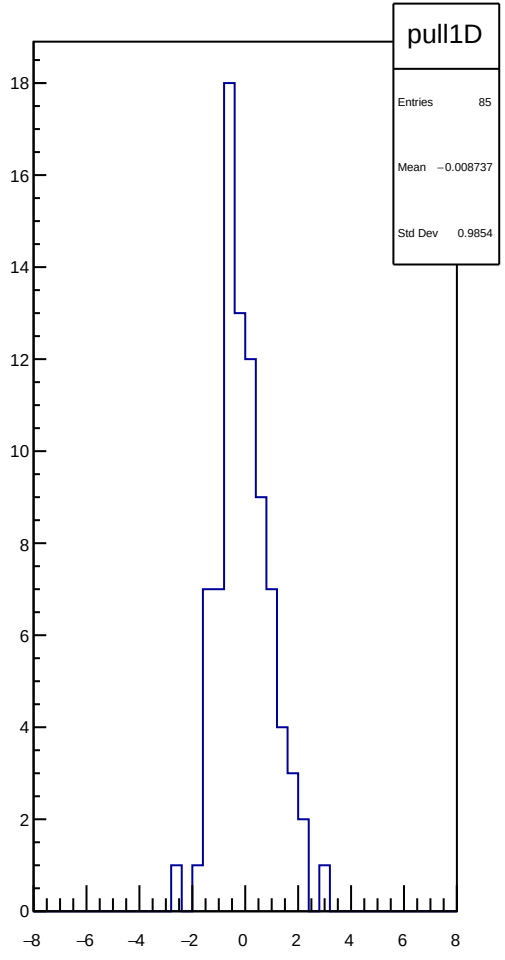

pull1D
Entries 85
Mean −0.008737
Std Dev 0.9854
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

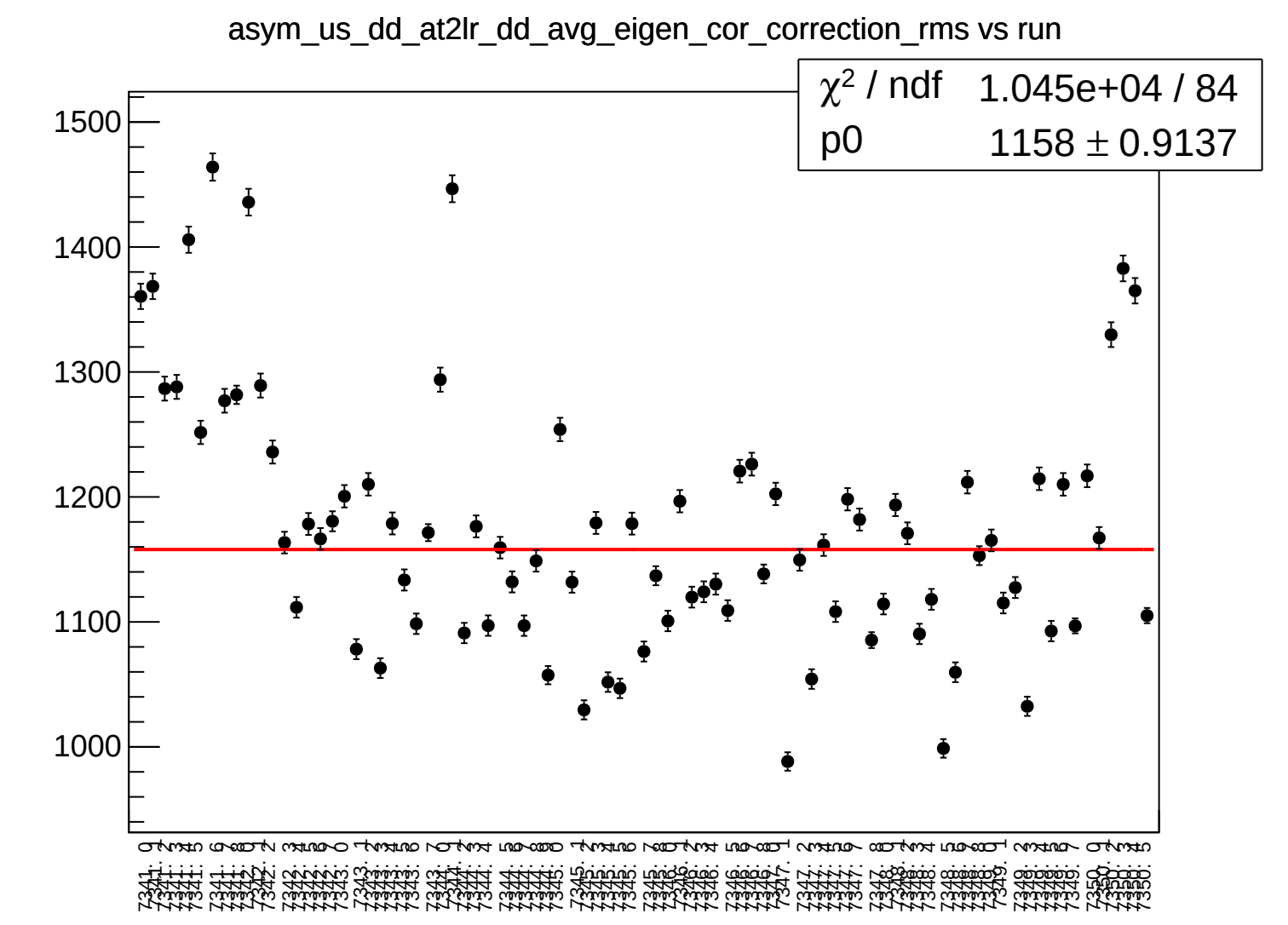

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.045e+04 / 84
p0 1158 ± 0.9137
1500
1400
1300
1200
1100
1000

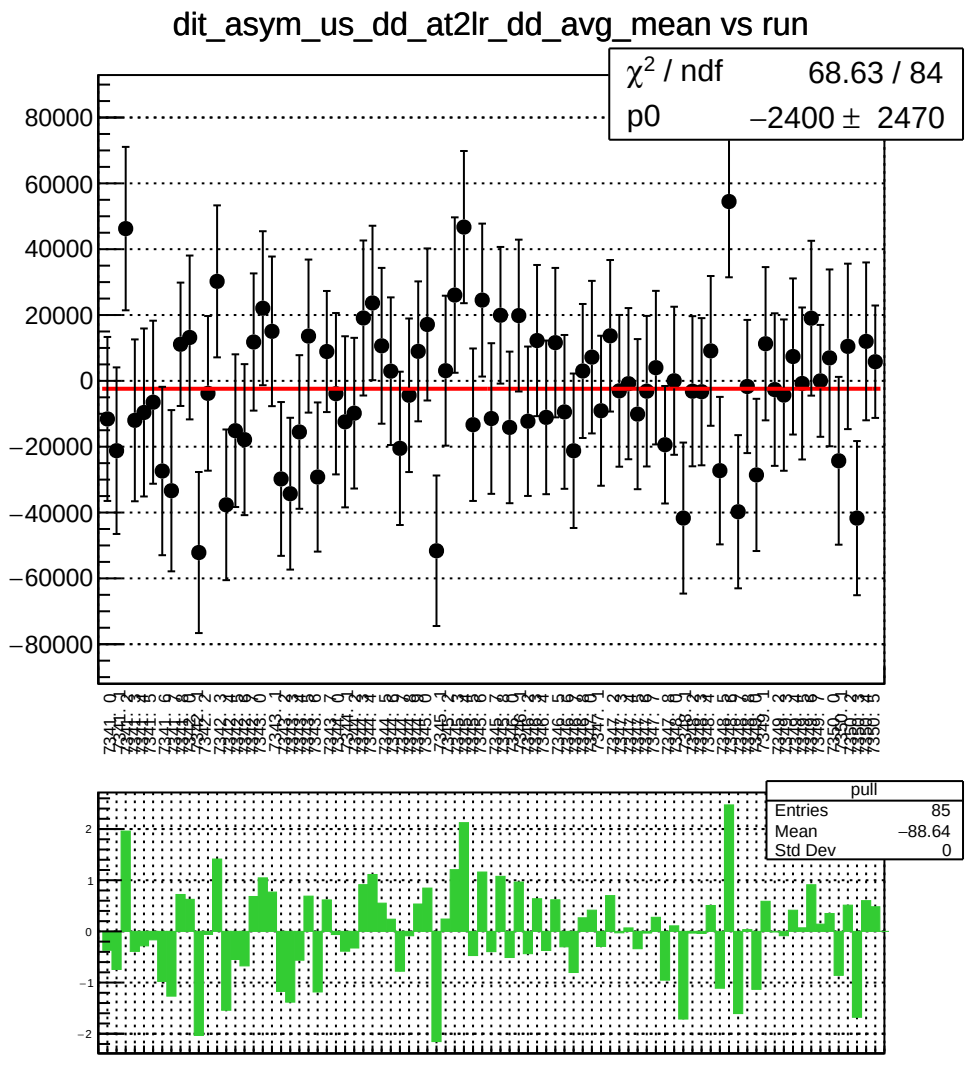

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 60.88 / 84
p0 −1926 ± 2255
pull
Entries 85
Mean −195
Std Dev 0
pull1D
Entries 85
Mean −0.009506
Std Dev 0.8462

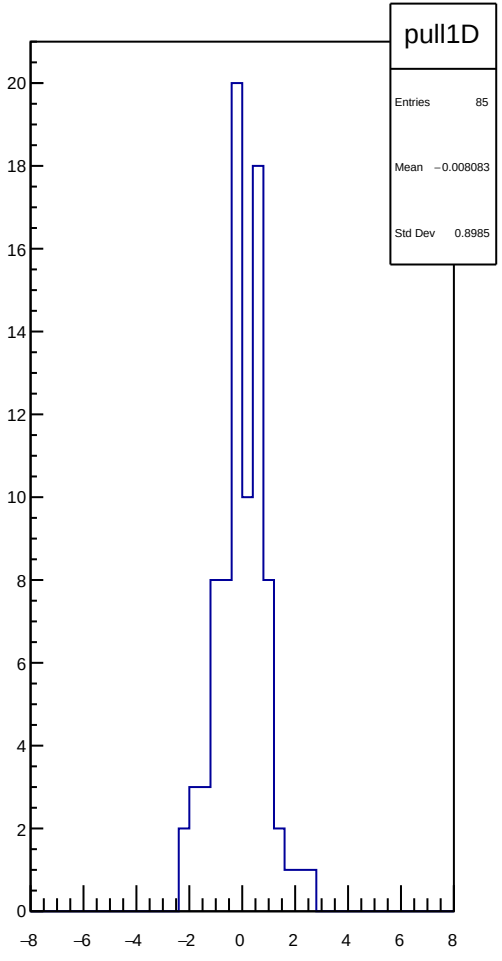

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 956.6 / 84
p0 2026 ± 1.594
2300
2200
2100
2000
1900

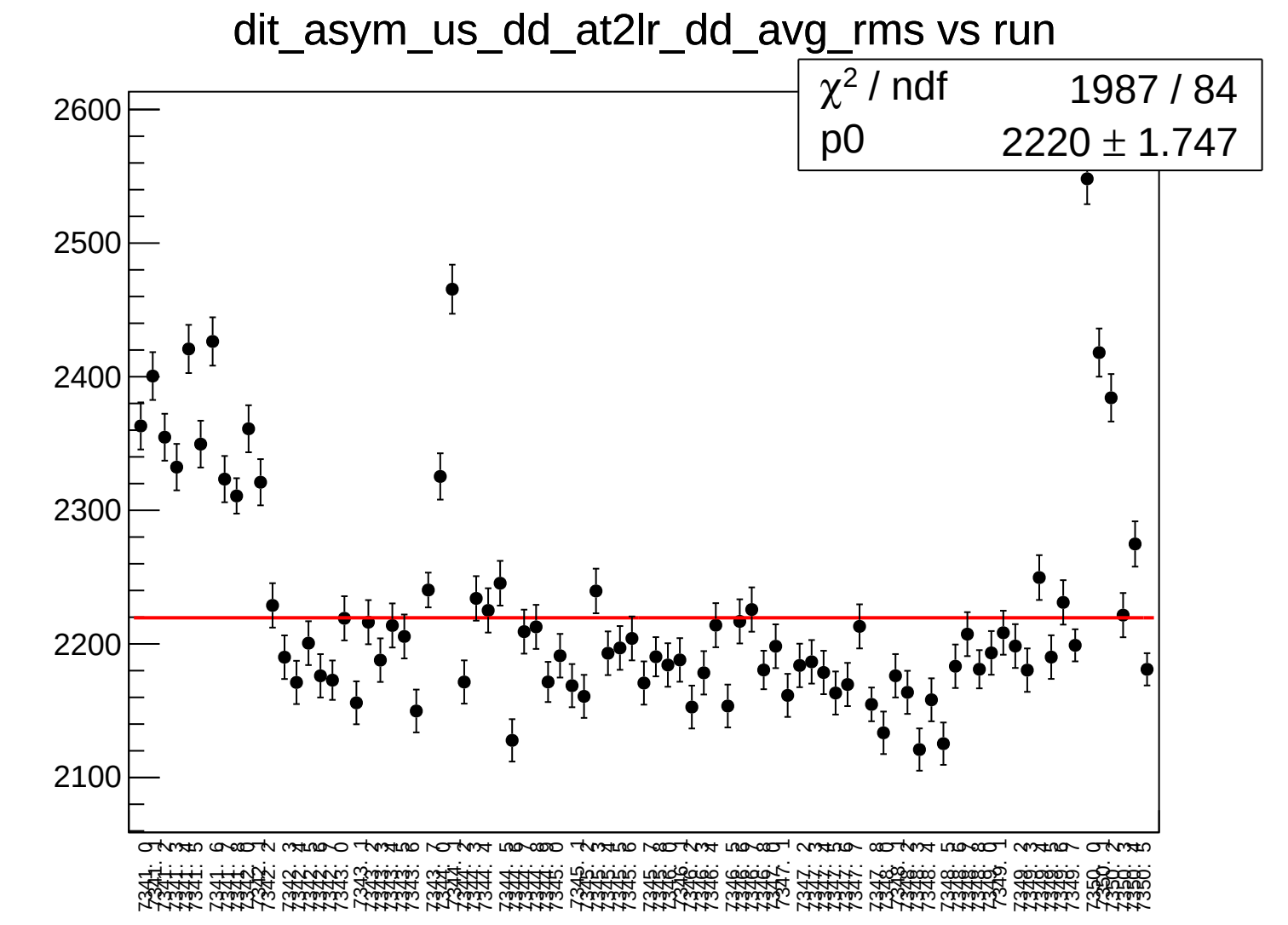

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.54 / 84
p0 −1080 ± 1292
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −381.9
Std Dev 0
3
2
1
0
−1
−2

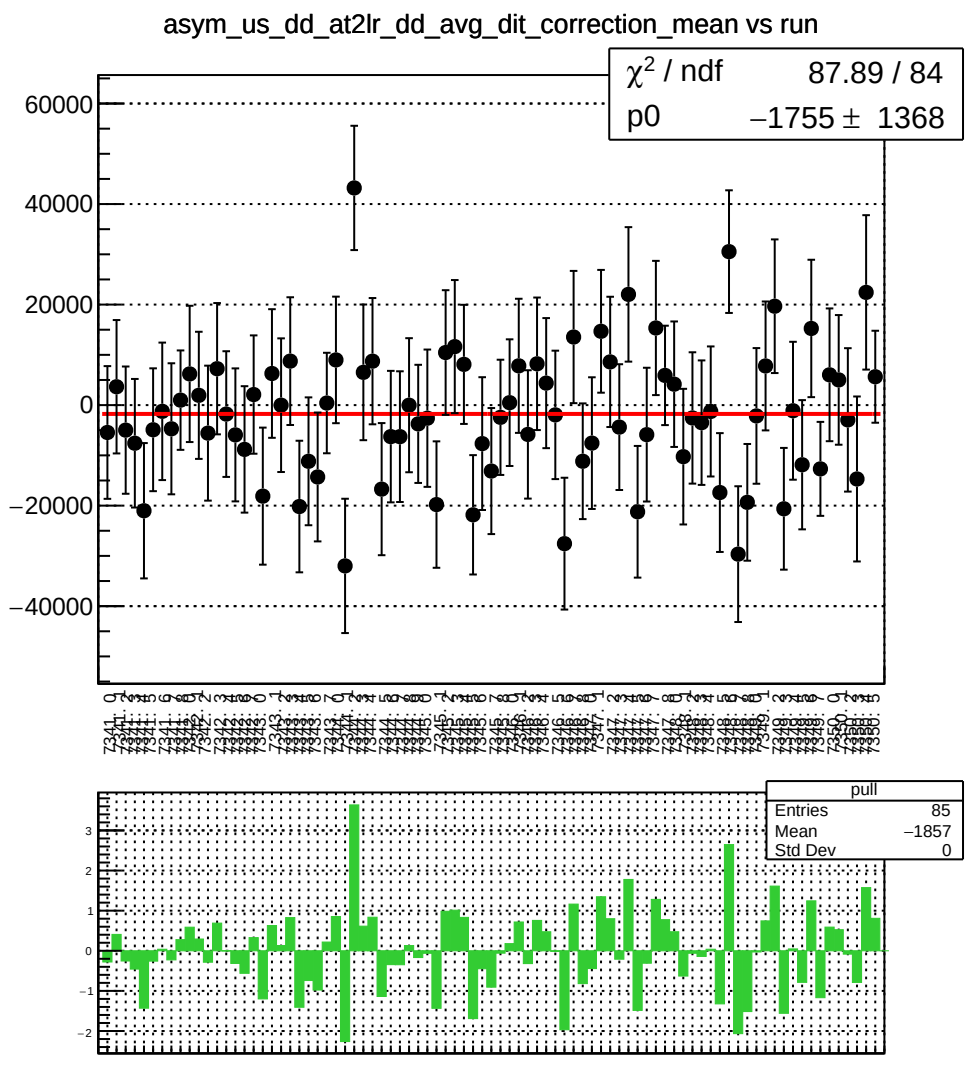

pull1D
Entries 85
Mean −0.008737
Std Dev 0.9854
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

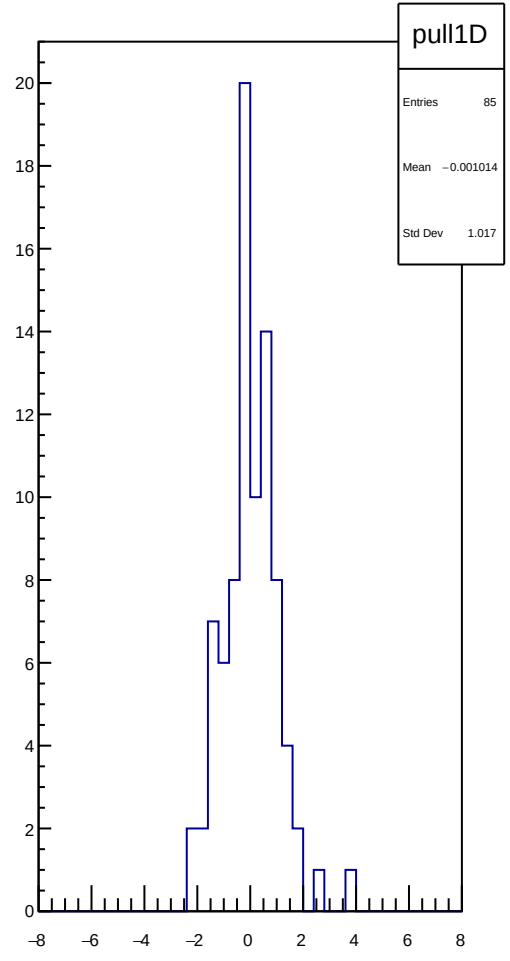

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.045e+04 / 84
p0 1158 ± 0.9137
1500
1400
1300
1200
1100
1000

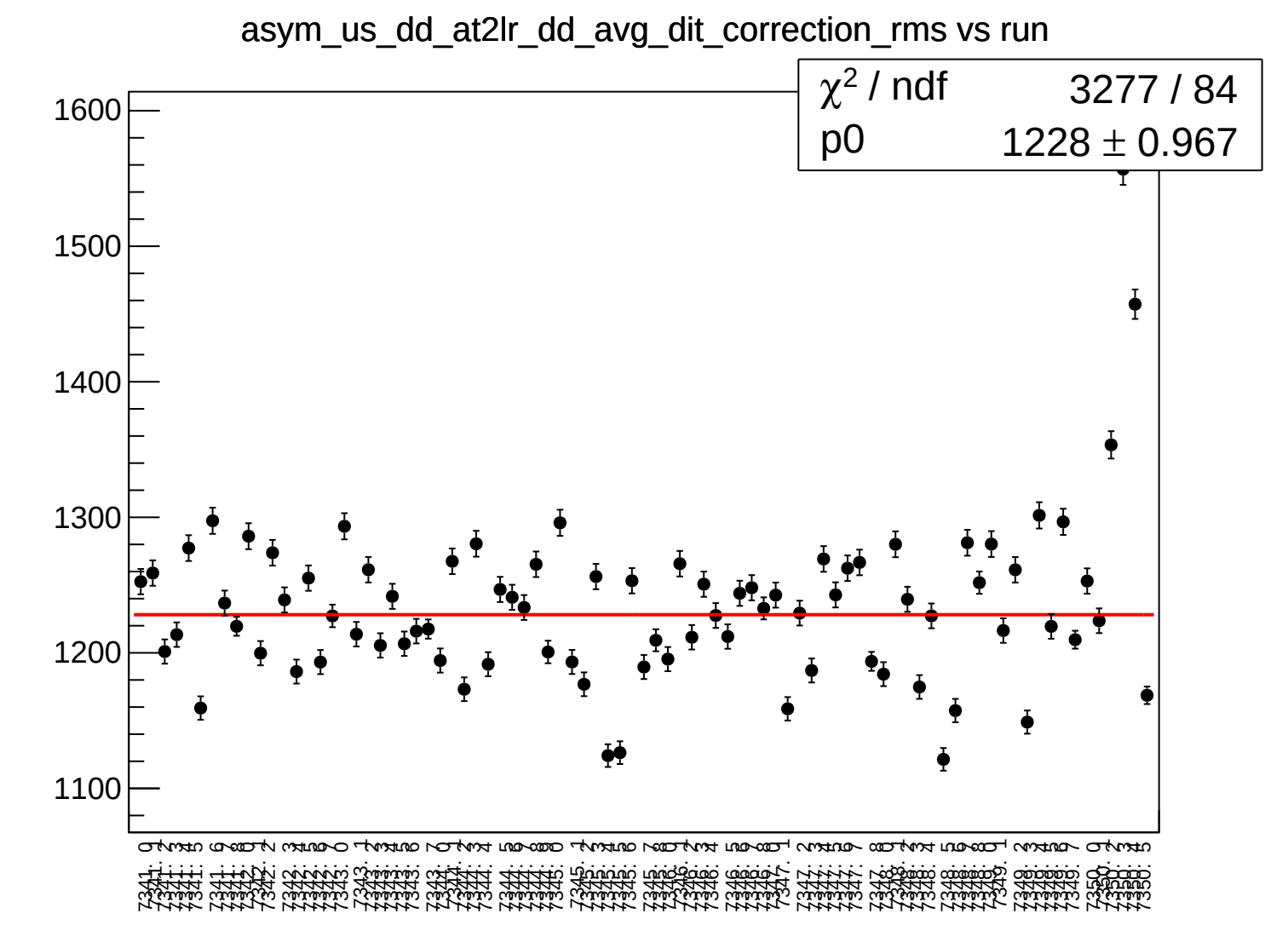

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 68.63 / 84
p0 −2400 ± 2470
pull
Entries 85
Mean −88.64
Std Dev 0

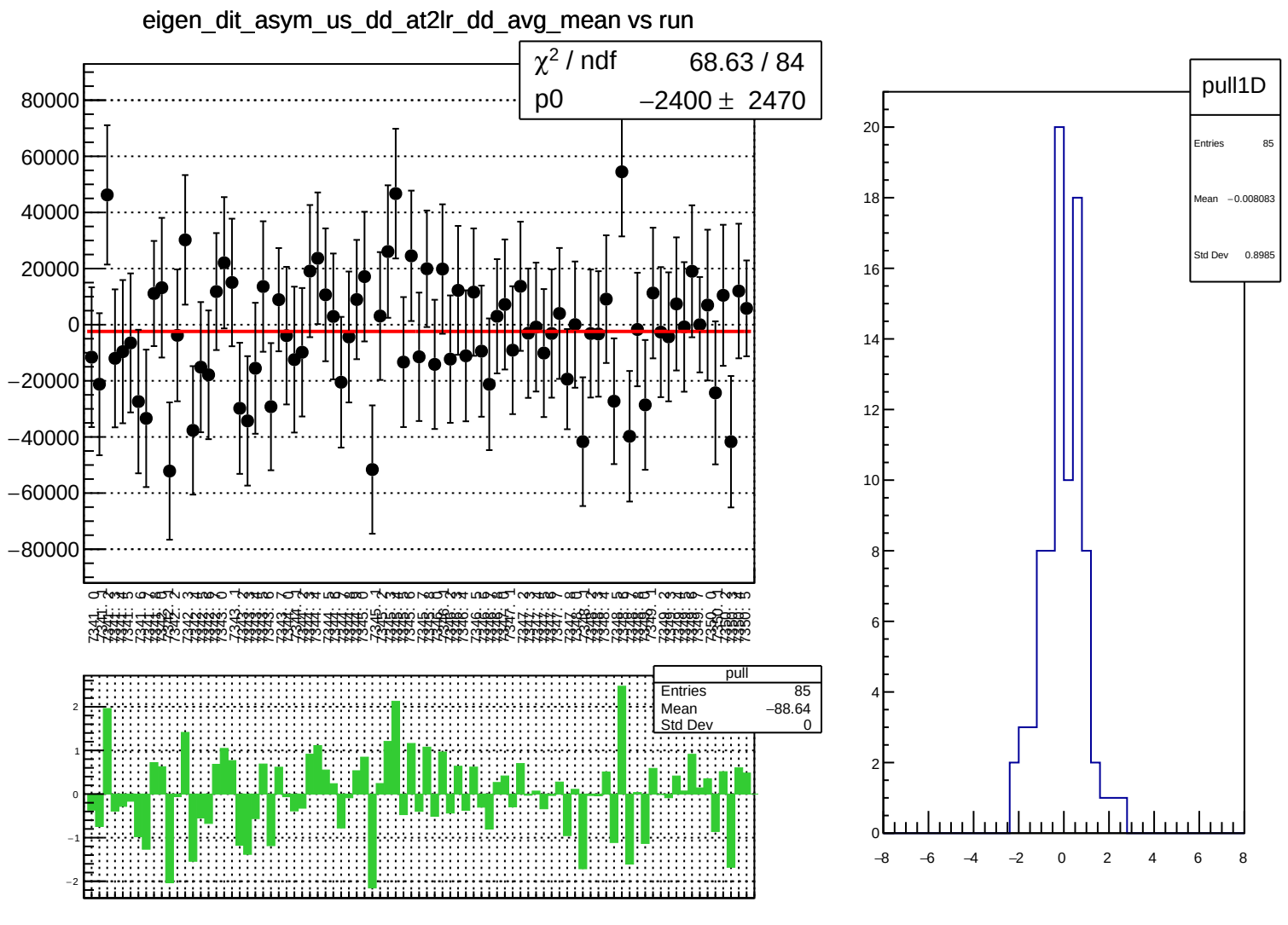

pull1D
Entries 85
Mean −0.008083
Std Dev 0.8985

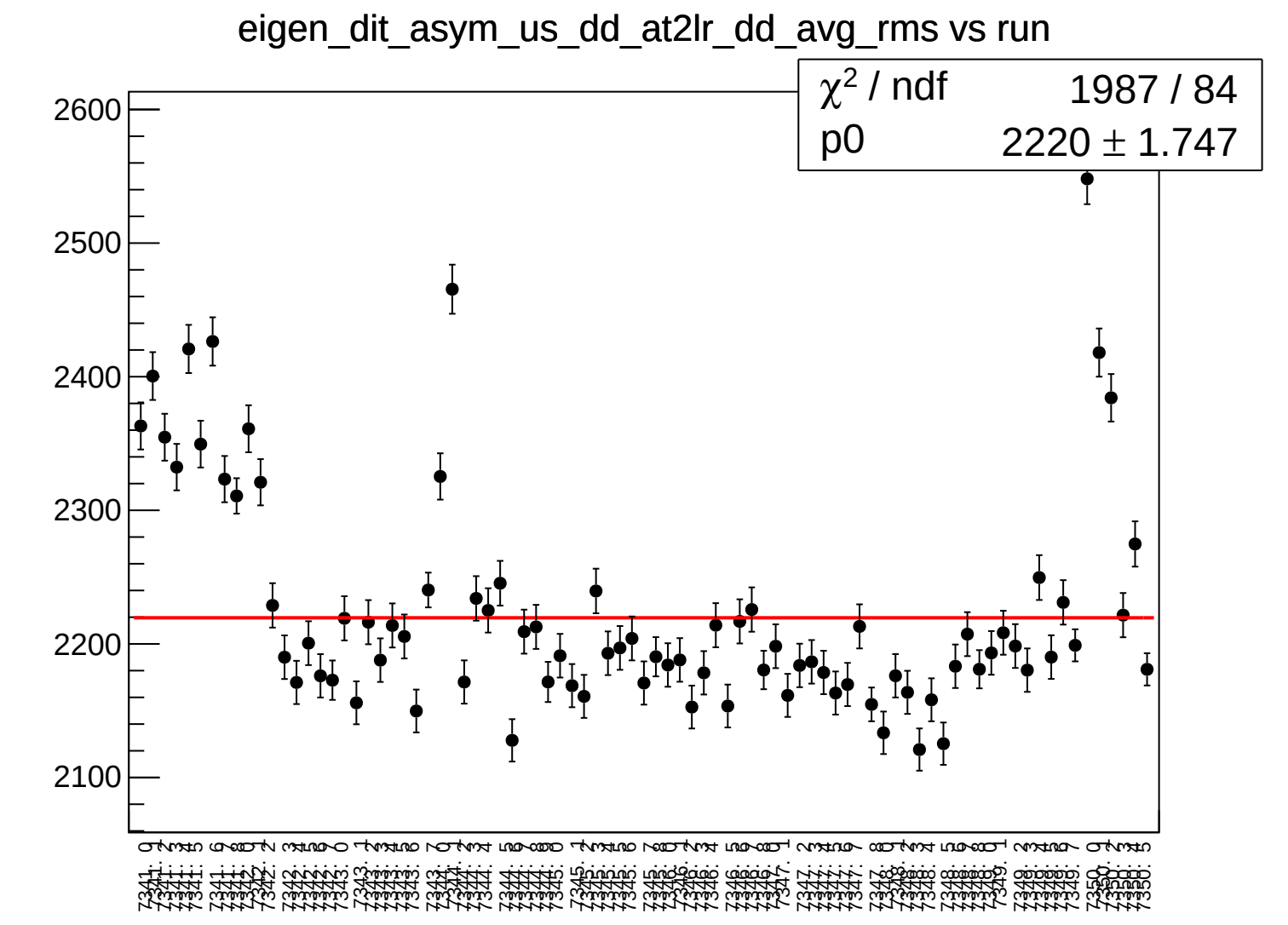

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1987 / 84
p0 2220 ± 1.747
2600
2500
2400
2300
2200
2100

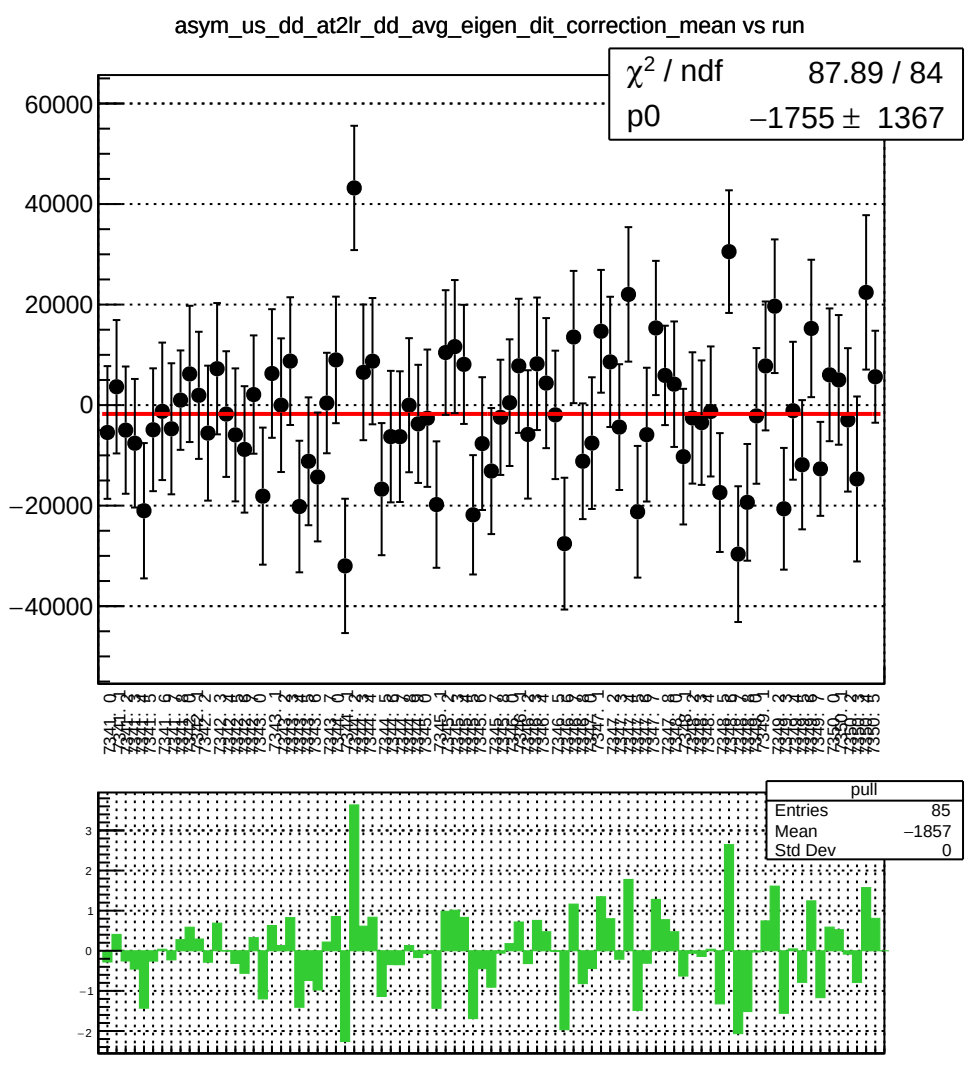

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 87.89 / 84
p0 −1755 ± 1368
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1857
Std Dev 0
3
2
1
0
−1
−2

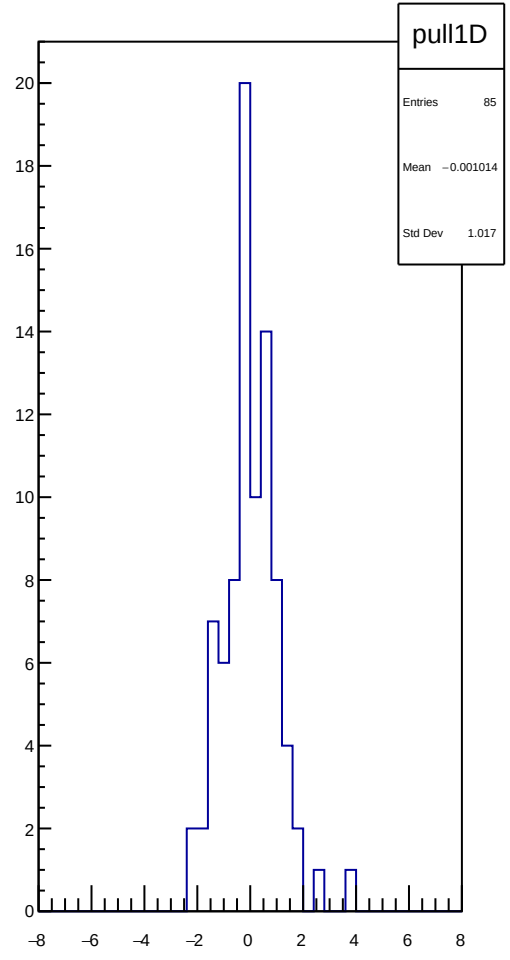

pull1D
Entries 85
Mean −0.001014
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

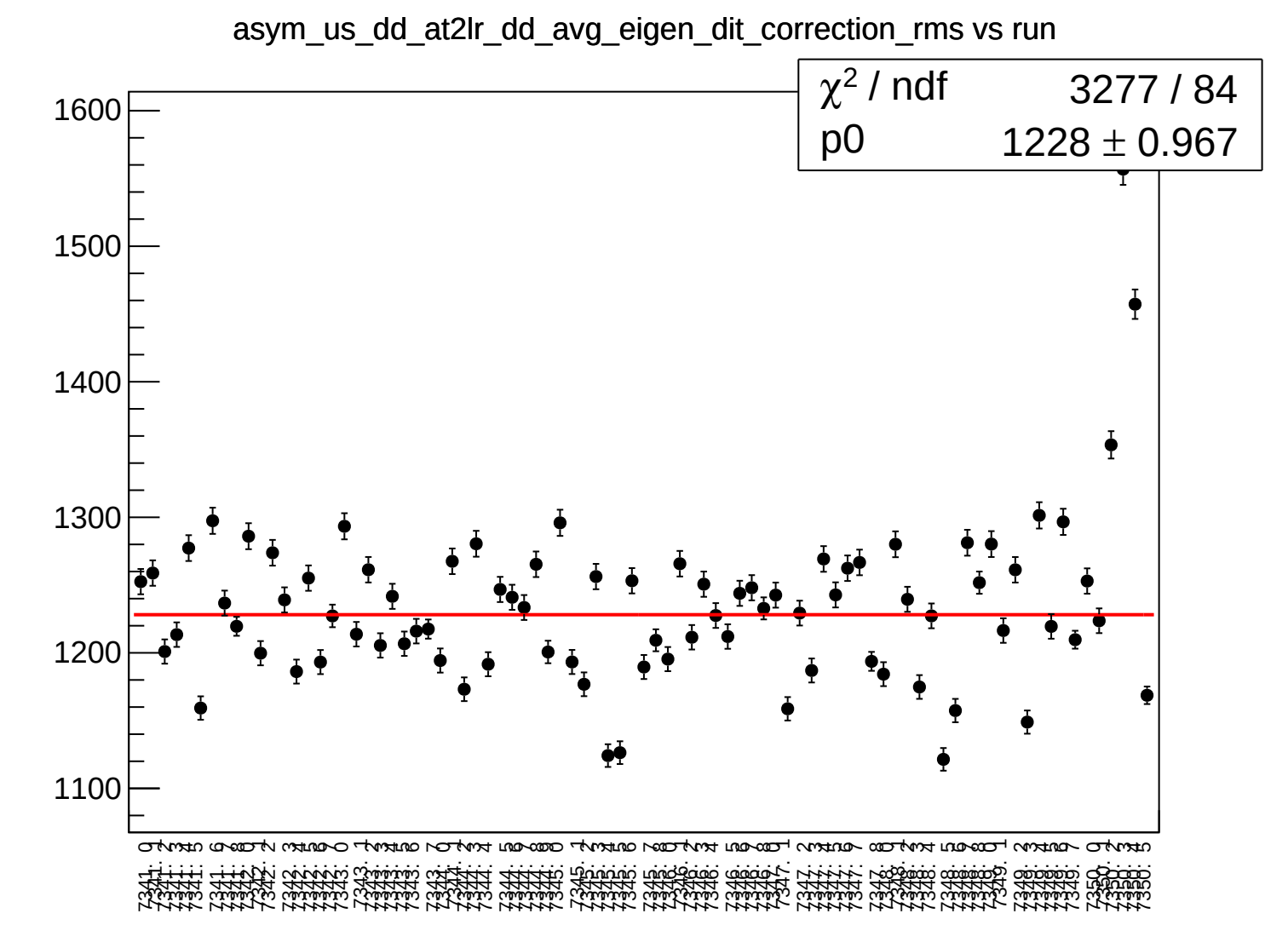

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3277 / 84
p0 1228 ± 0.967
1600
1500
1400
1300
1200
1100

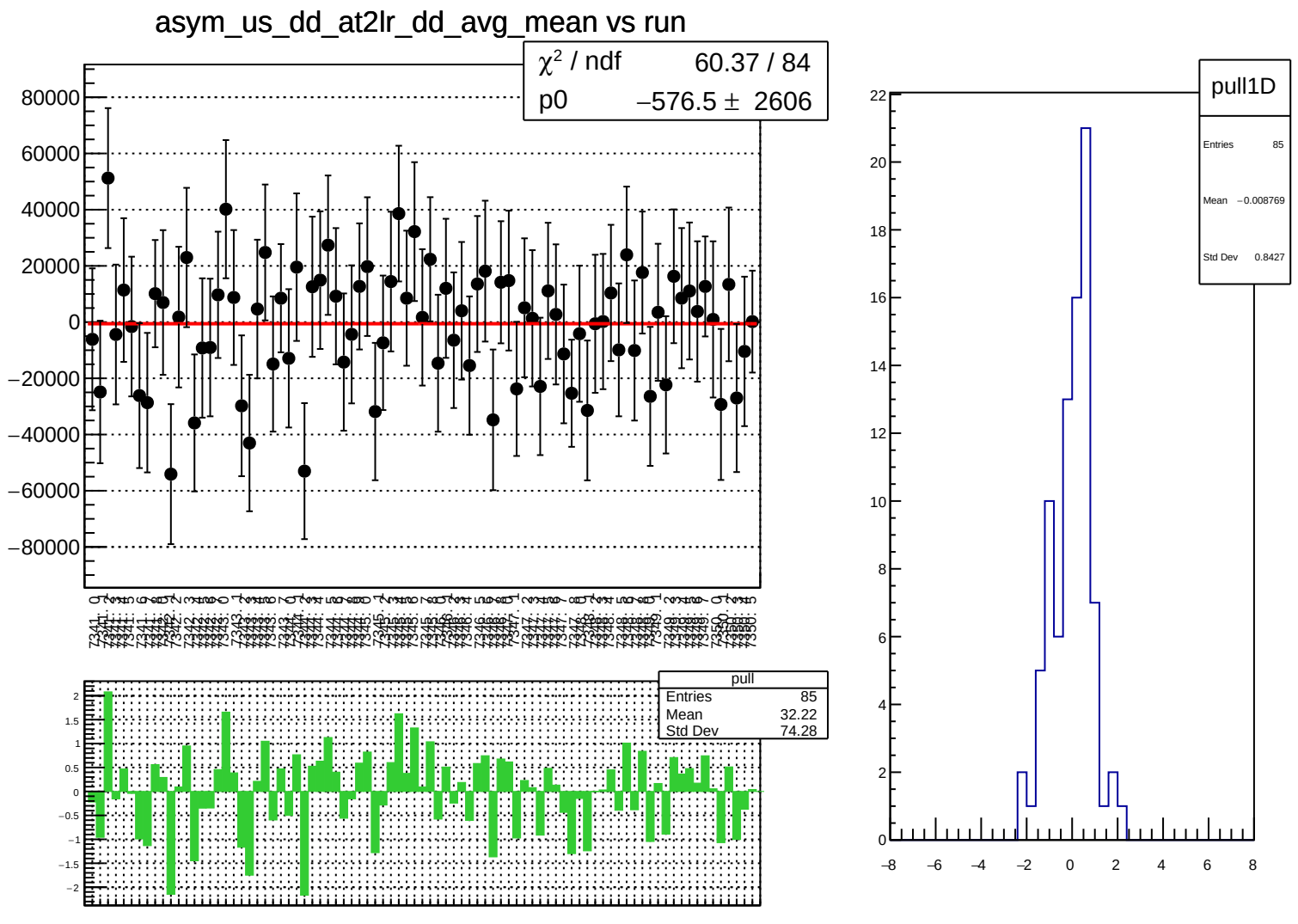

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 68.63 / 84
p0 −2400 ± 2470
pull
Entries 85
Mean −88.64
Std Dev 0
pull1D
Entries 85
Mean −0.008083
Std Dev 0.8985

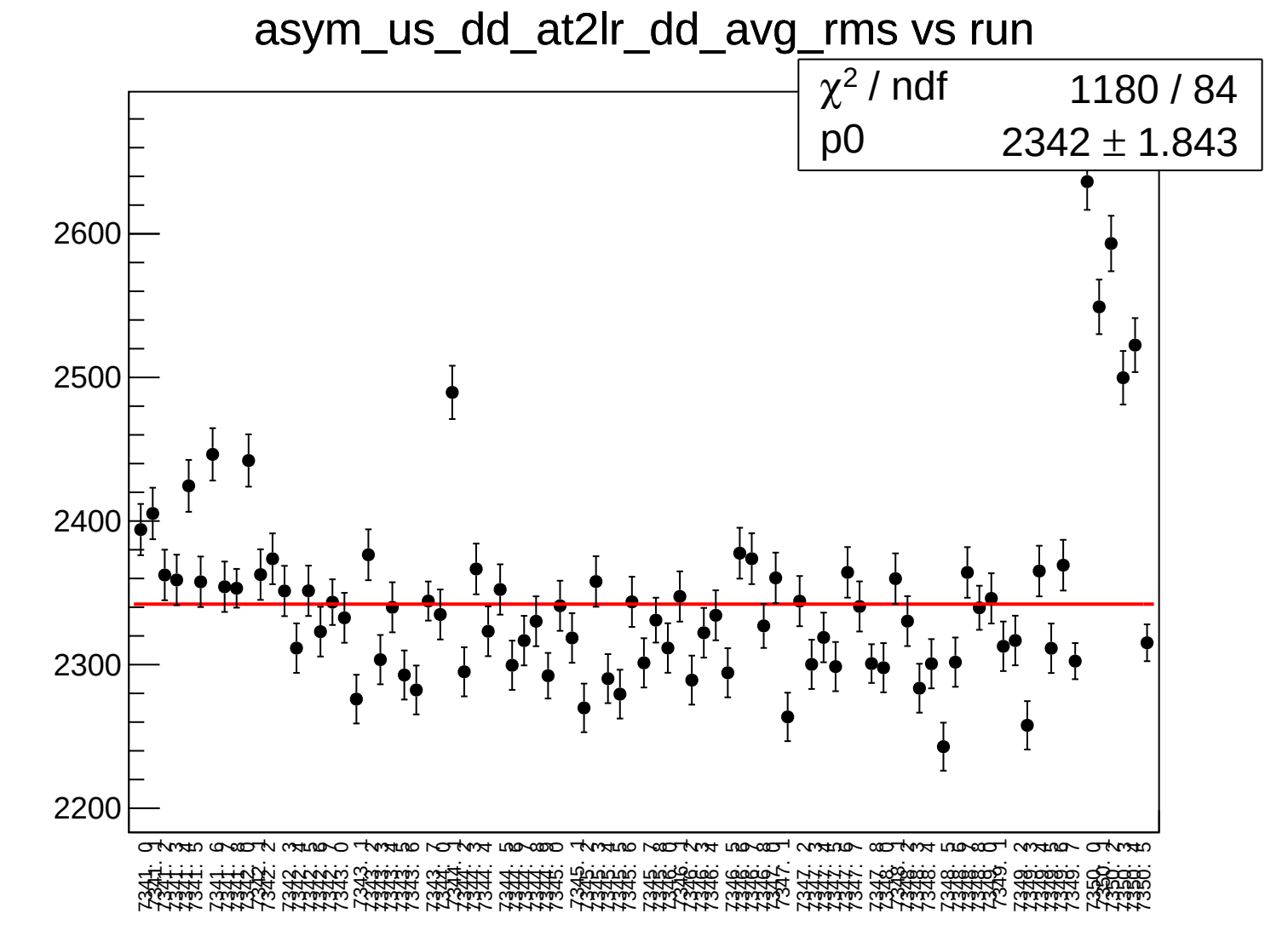

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1987 / 84
p0 2220 ± 1.747
2600
2500
2400
2300
2200
2100

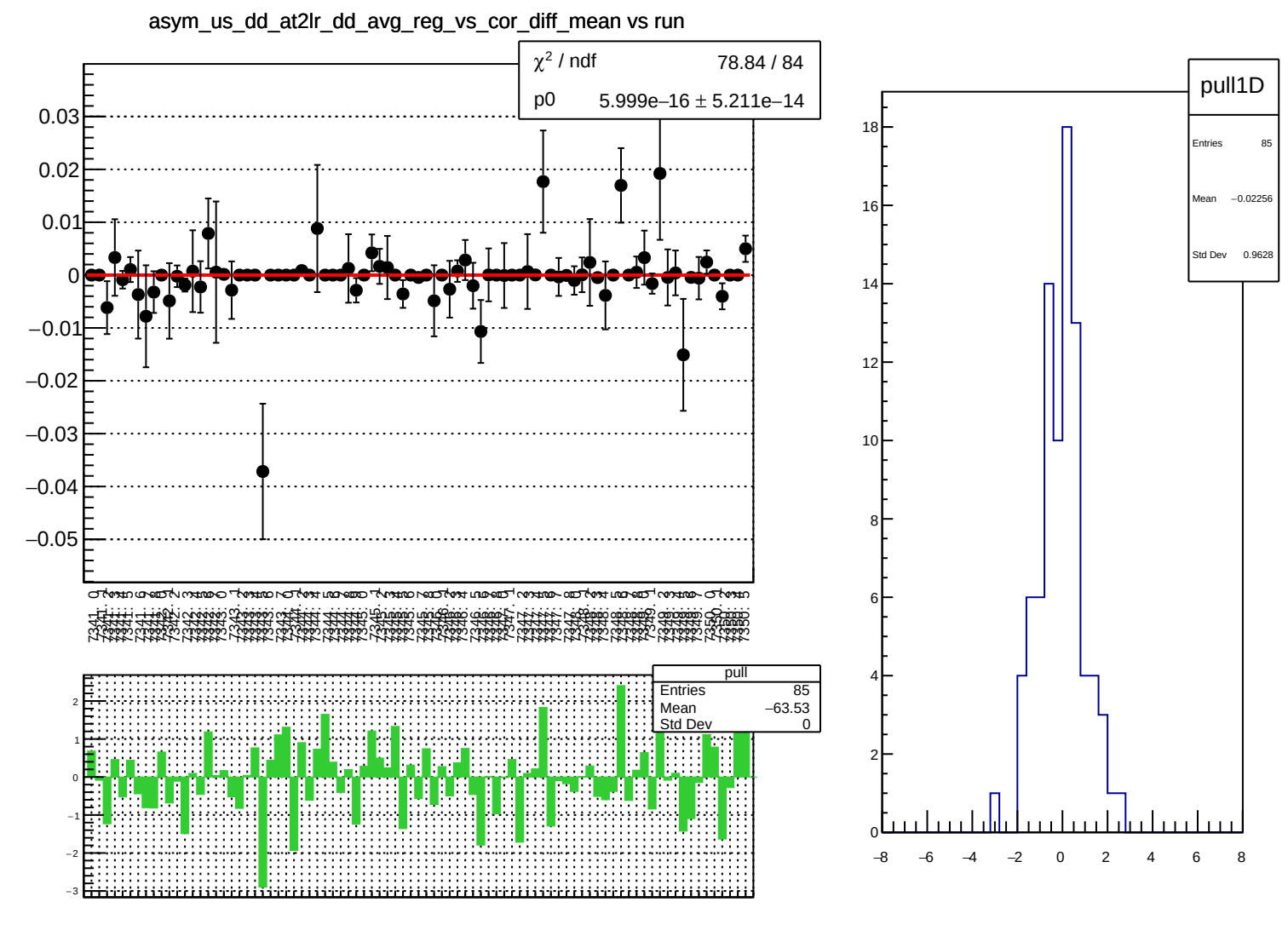

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.89 / 84
p0 −1755 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −1857
Std Dev 0
3
2
1
0
−1
−2

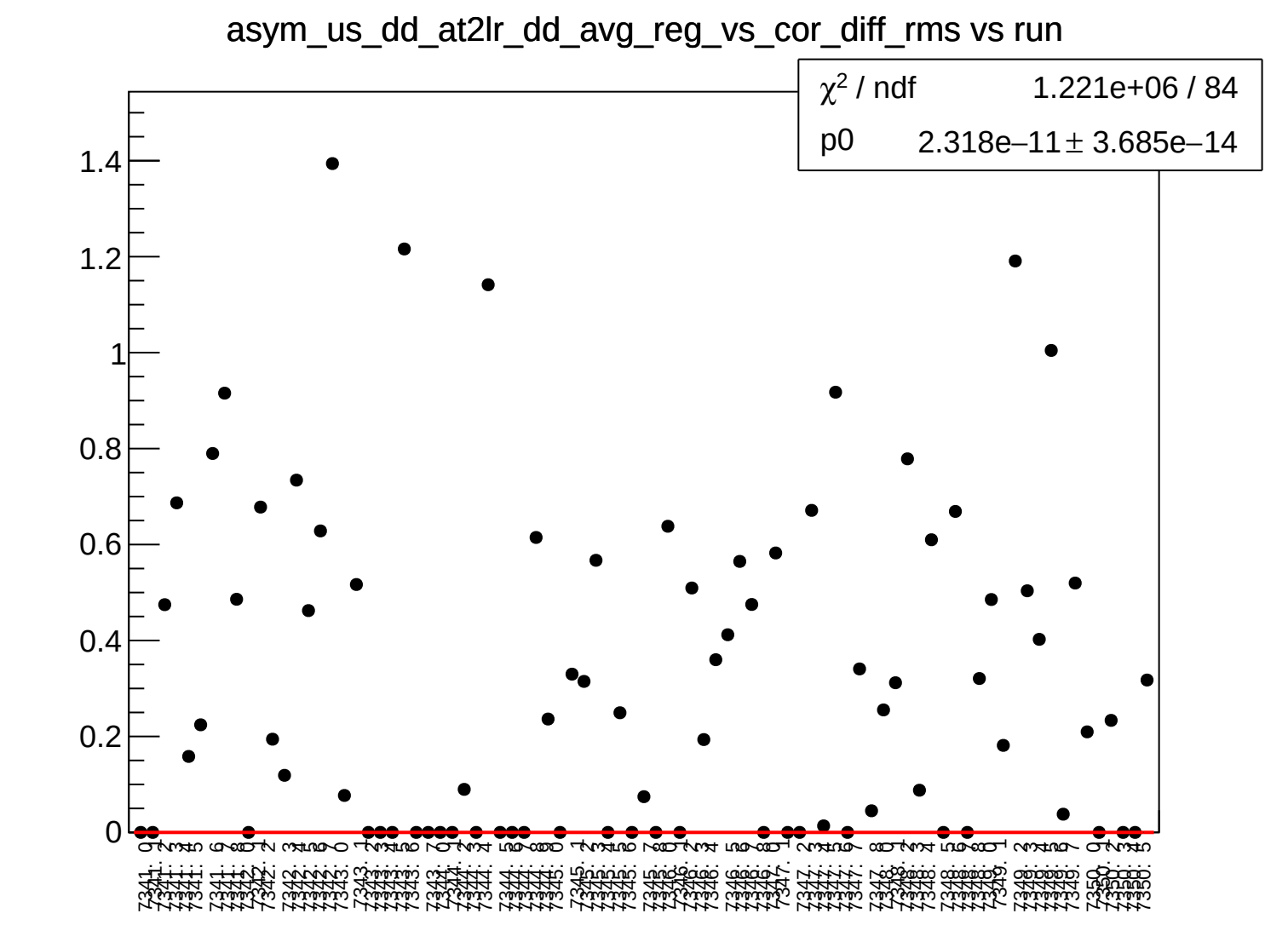

pull1D
Entries 85
Mean −0.001014
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

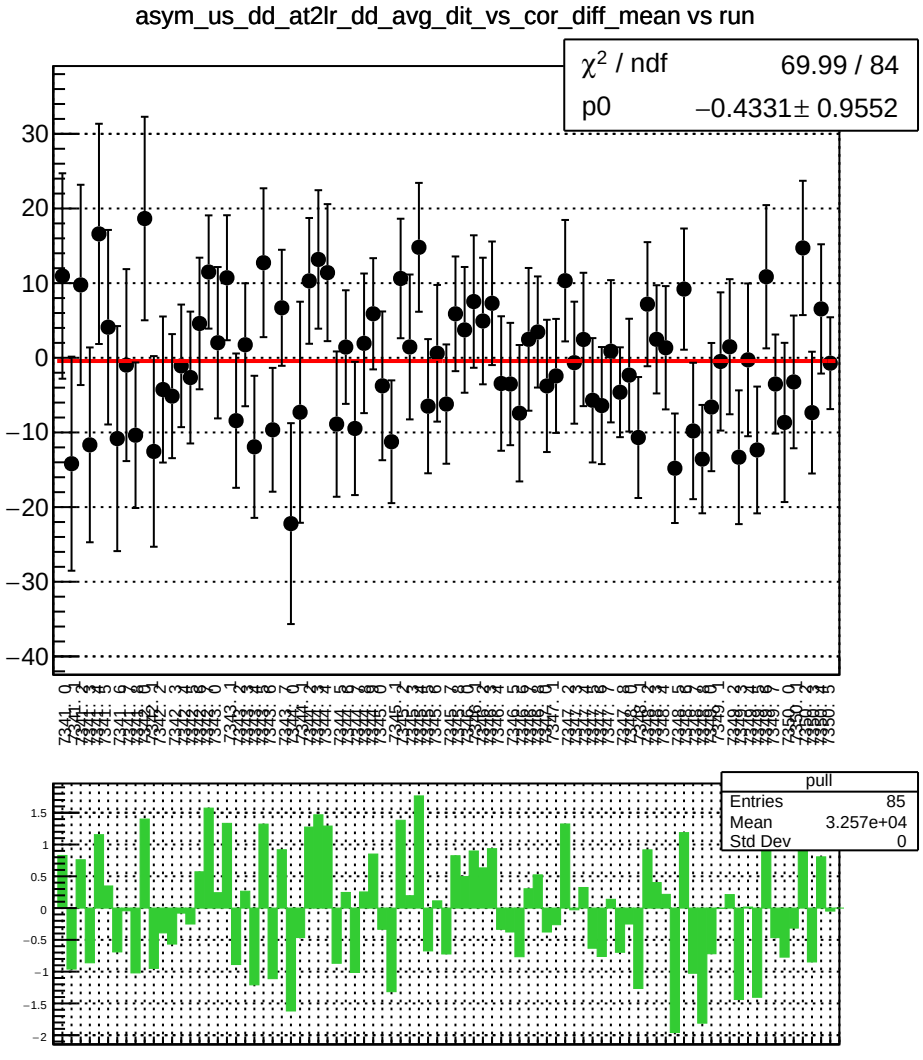

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3277 / 84
p0 1228 ± 0.967
1600
1500
1400
1300
1200
1100

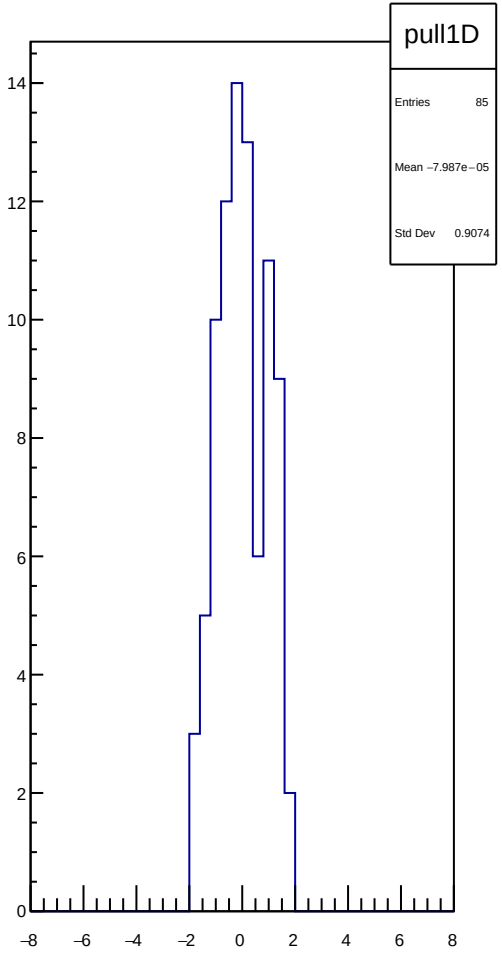

asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 60.37 / 84
p0 −576.5 ± 2606
pull
Entries 85
Mean 32.22
Std Dev 74.28
pull1D
Entries 85
Mean −0.008769
Std Dev 0.8427

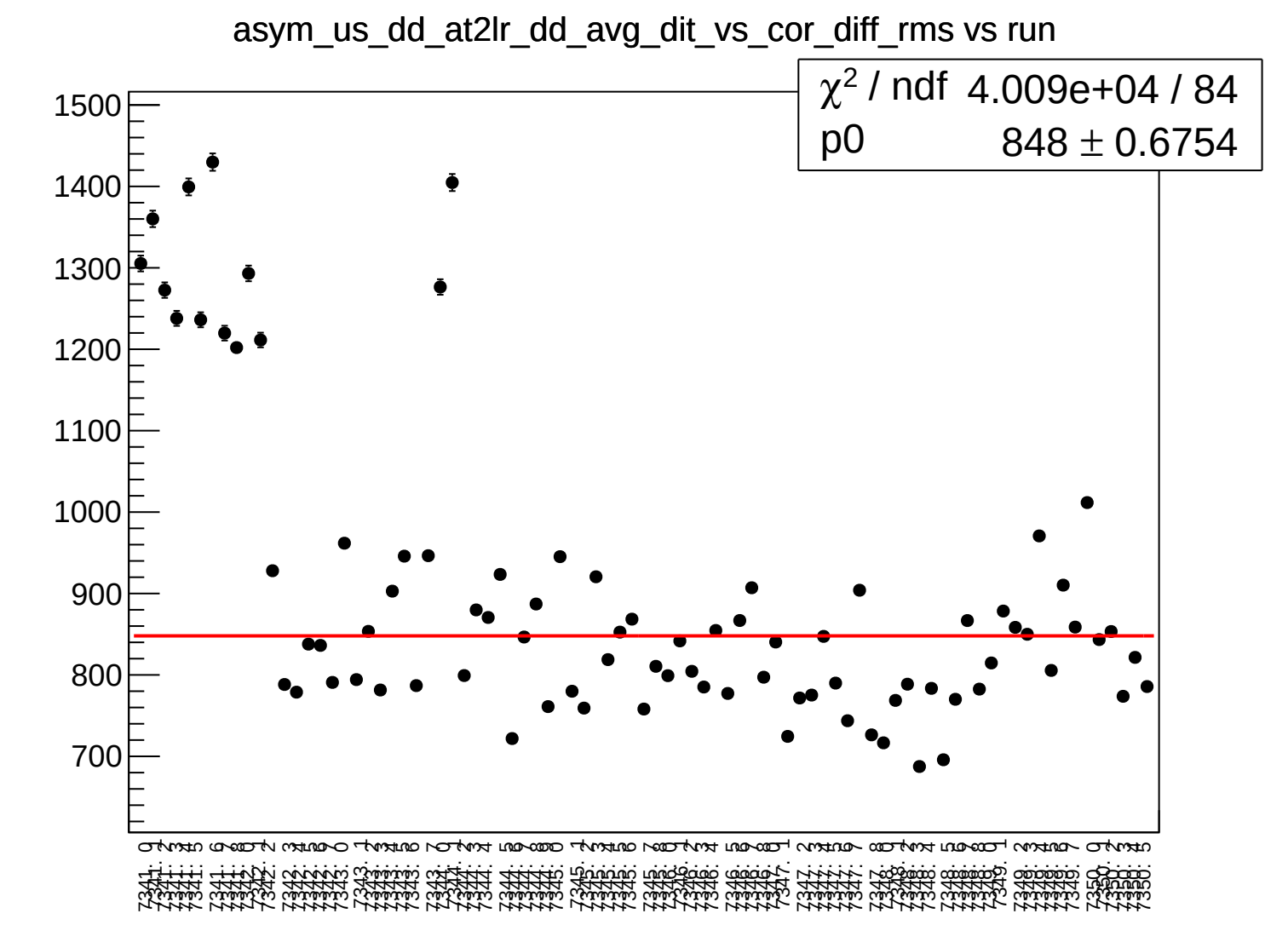

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1180 / 84
p0 2342 ± 1.843
2600
2500
2400
2300
2200

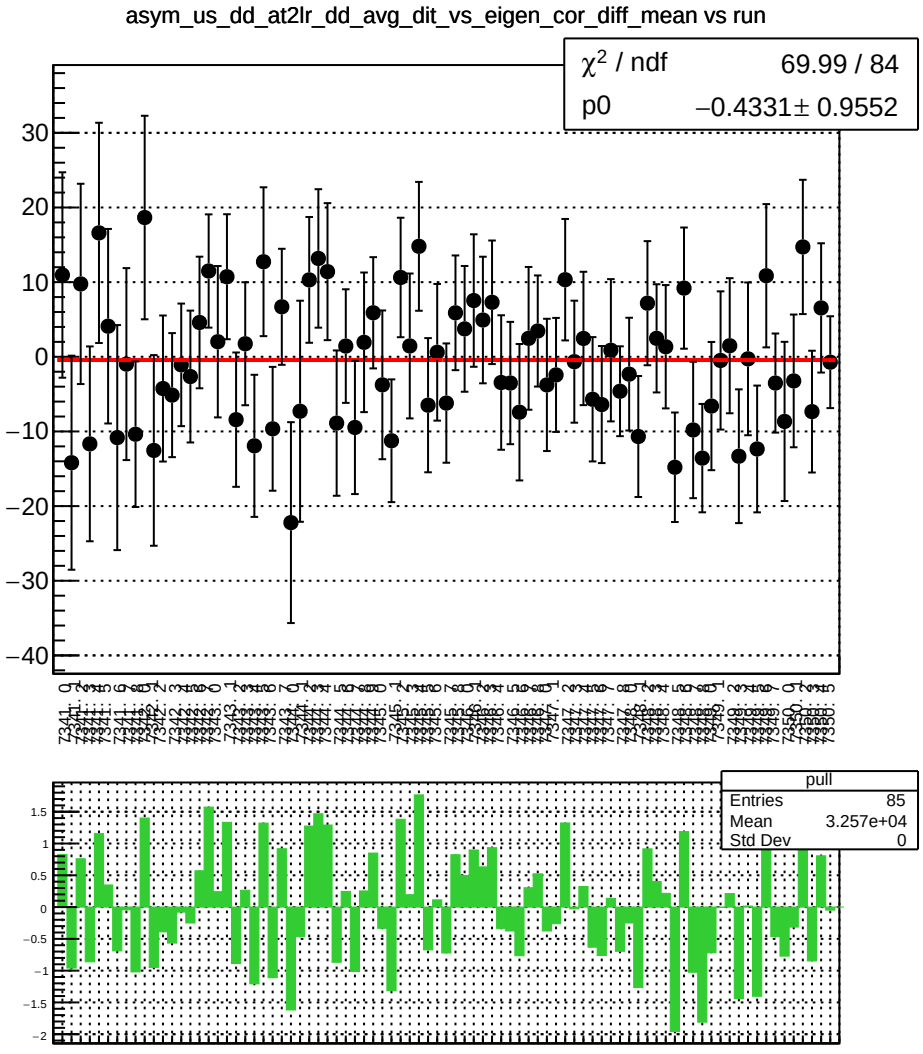

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.84 / 84
p0 5.999e−16 ± 5.211e−14
pull
Entries 85
Mean −63.53
Std Dev 0
pull1D
Entries 85
Mean −0.02256
Std Dev 0.9628

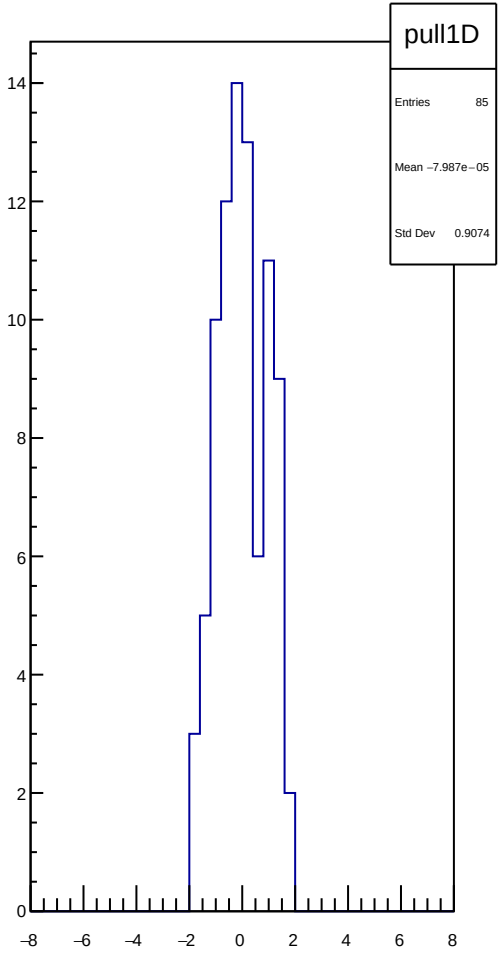

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.221e+06 / 84
p0 2.318e−11 ± 3.685e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

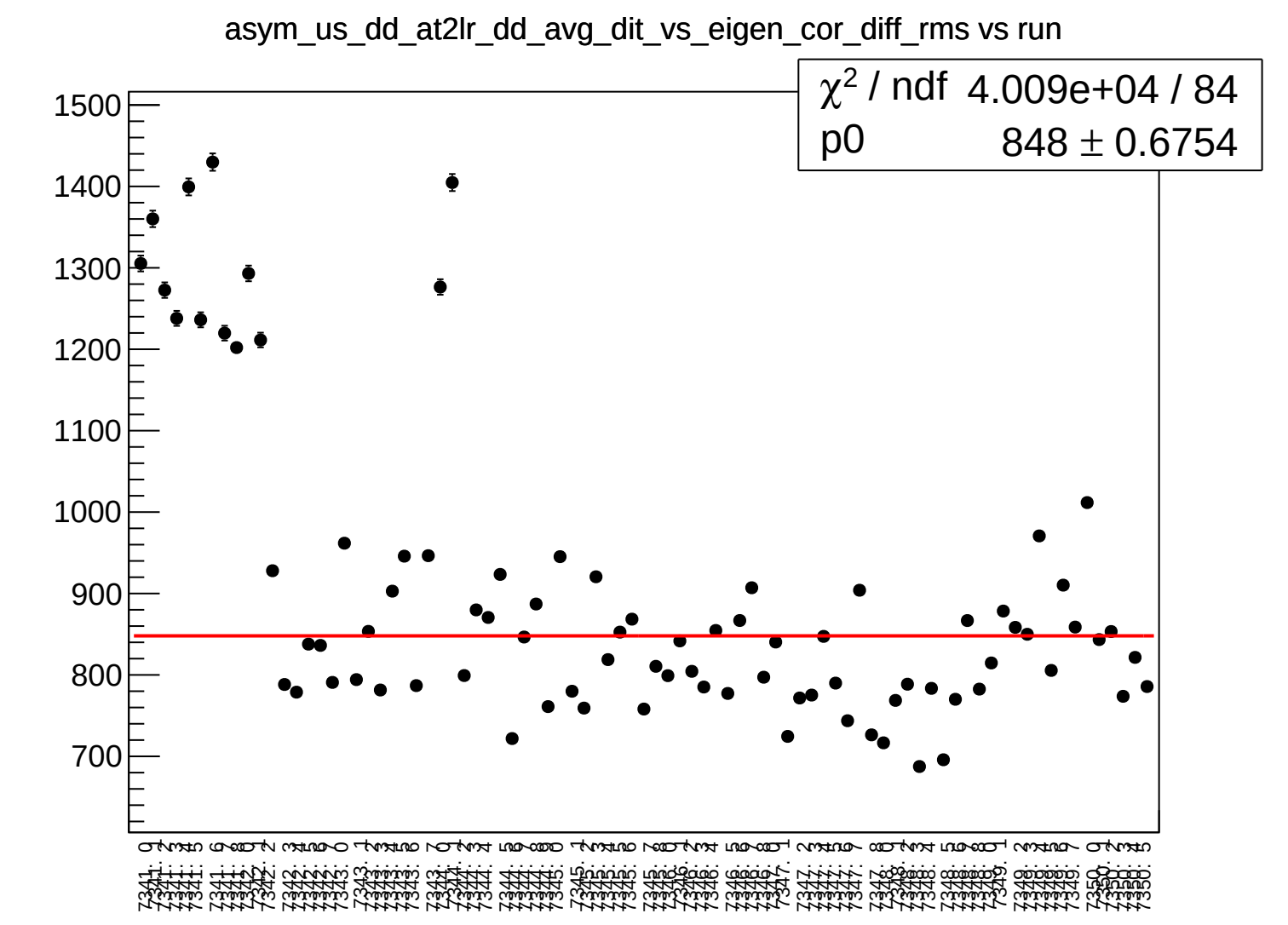

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.99 / 84
p0 −0.4331± 0.9552
pull
Entries 85
Mean 3.257e+04
Std Dev 0

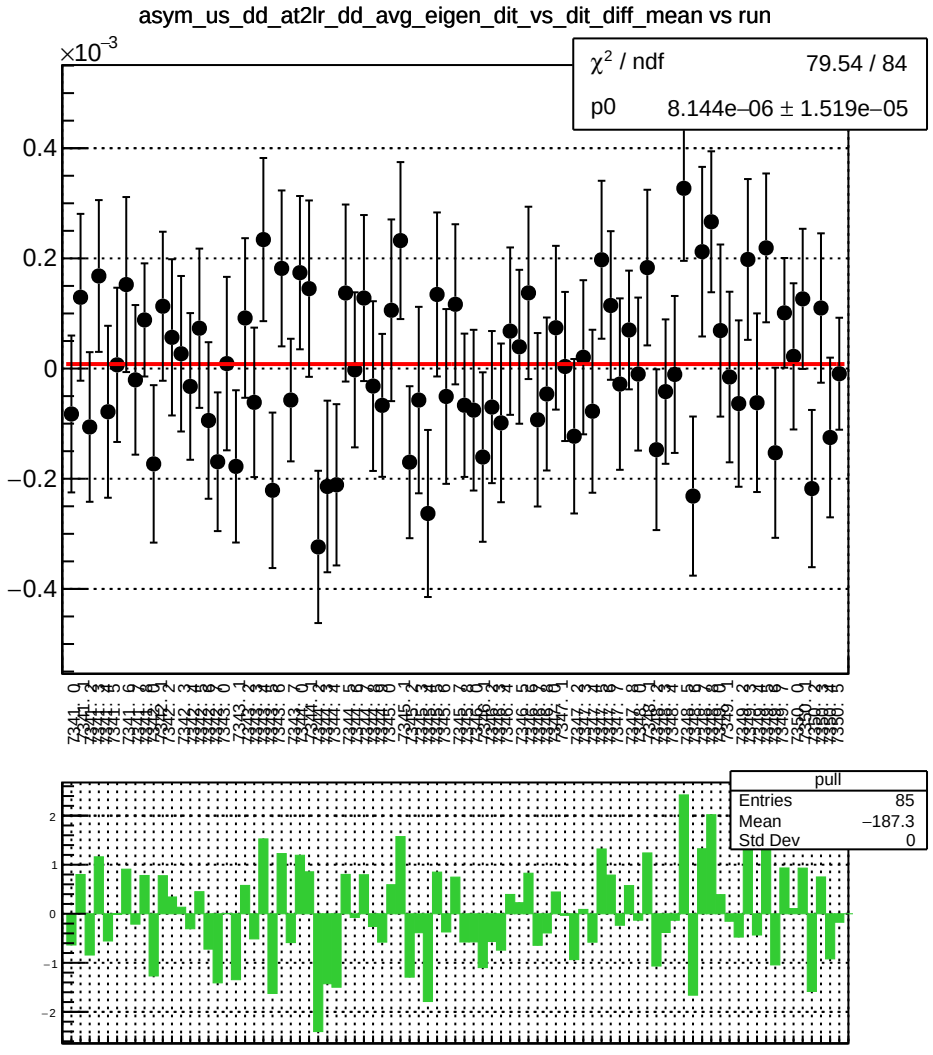

pull1D
Entries 85
Mean −7.987e−05
Std Dev 0.9074

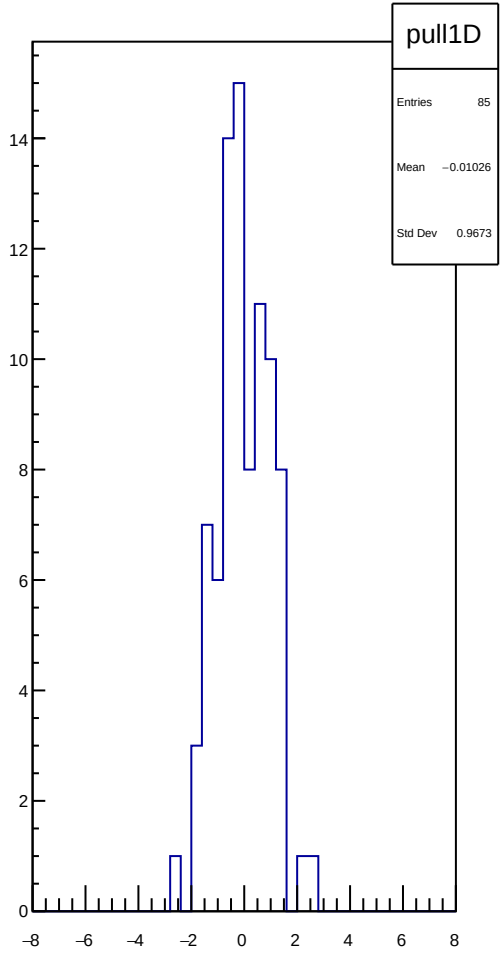

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.009e+04 / 84
p0 848 ± 0.6754
1500
1400
1300
1200
1100
1000
900
800
700

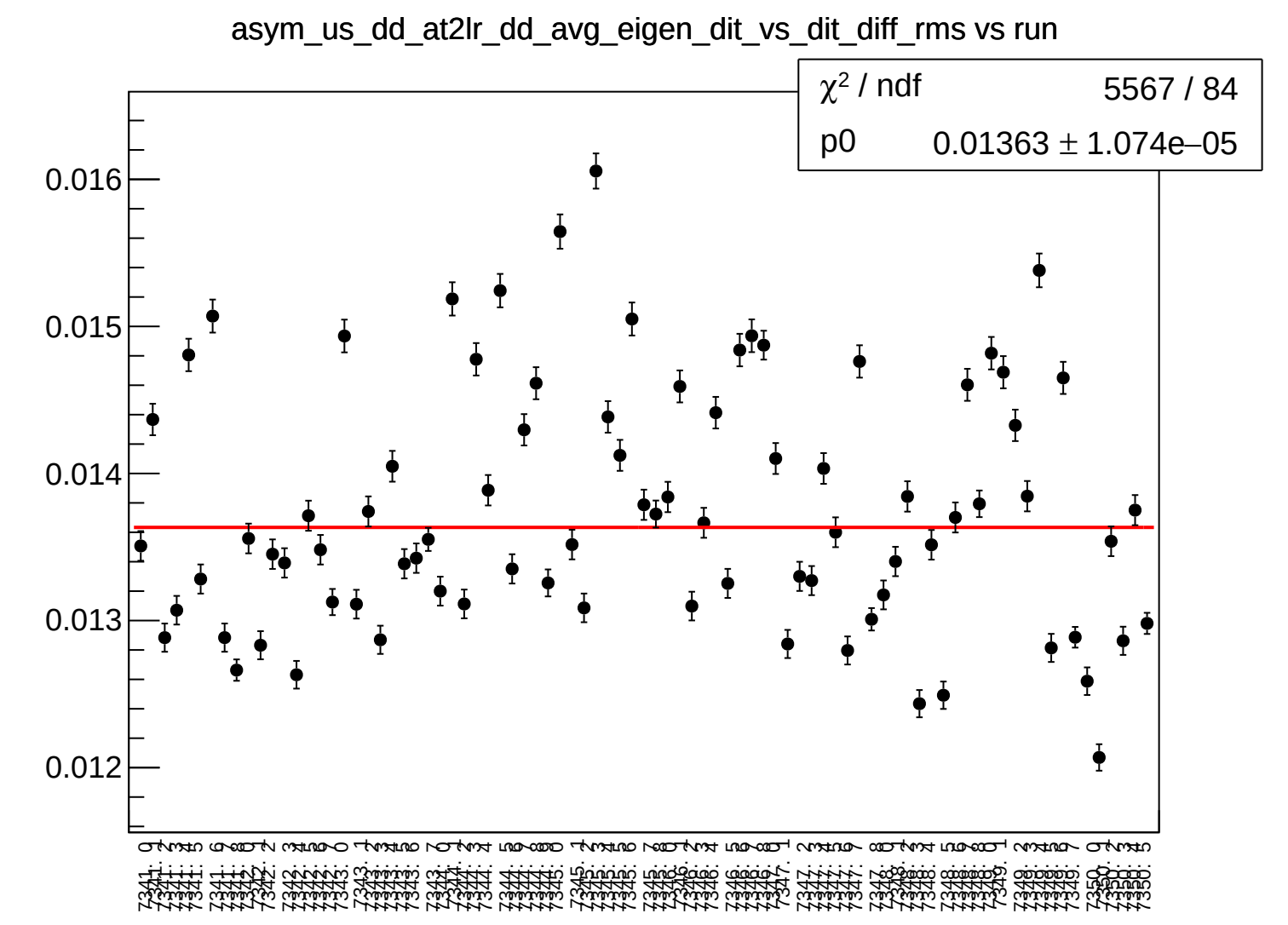

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.99 / 84
p0 −0.4331± 0.9552
pull
Entries 85
Mean 3.257e+04
Std Dev 0

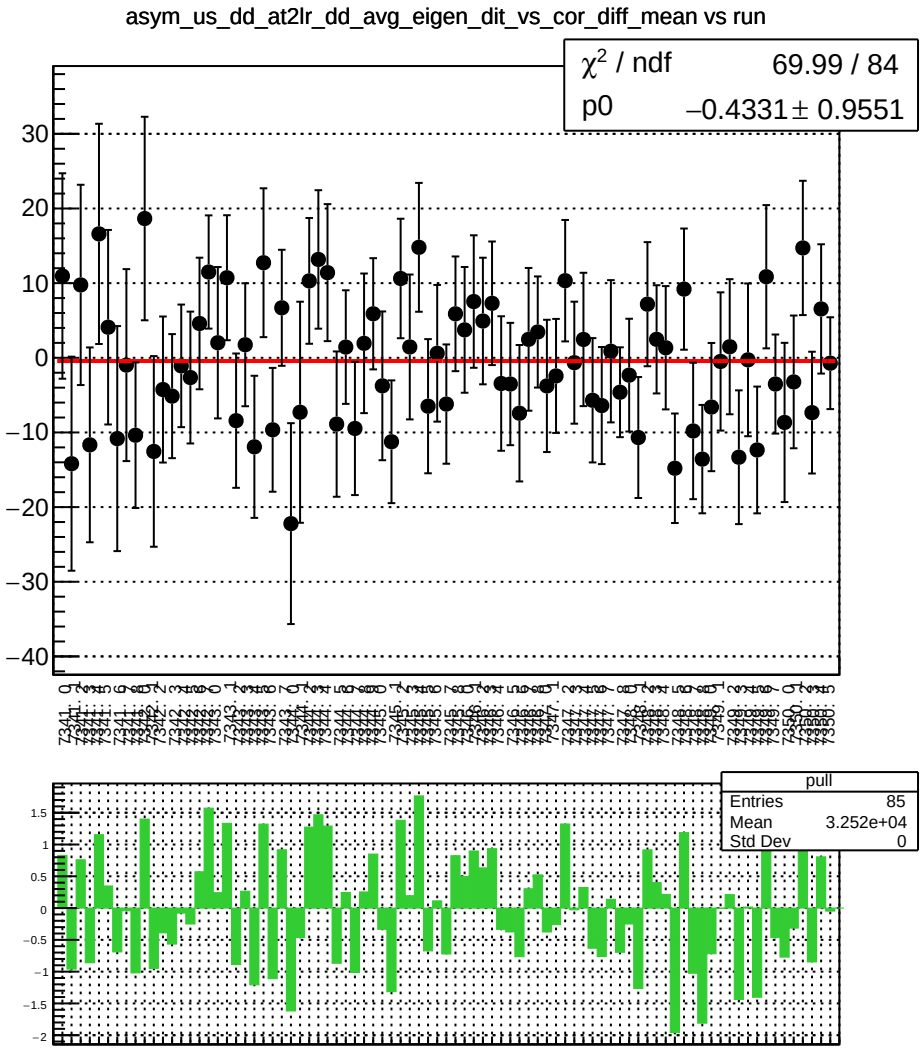

pull1D
Entries 85
Mean −7.987e−05
Std Dev 0.9074

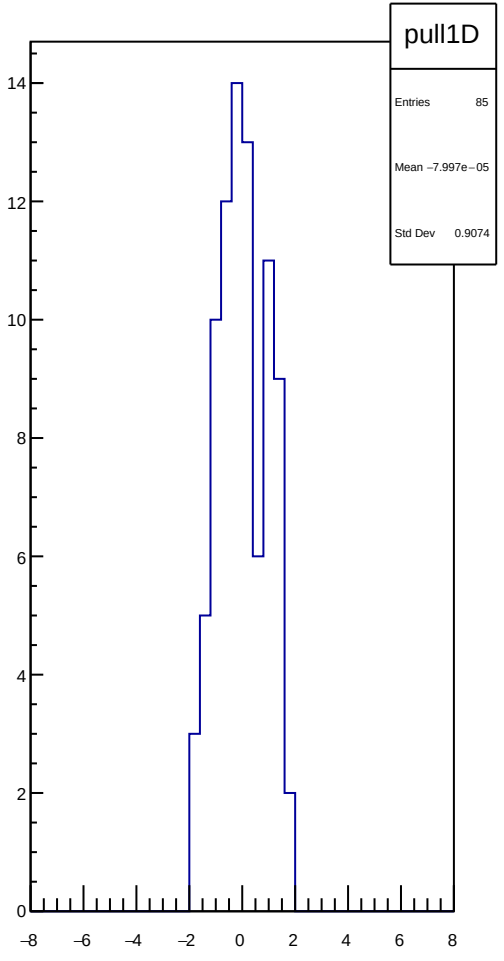

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.009e+04 / 84
p0 848 ± 0.6754
1500
1400
1300
1200
1100
1000
900
800
700

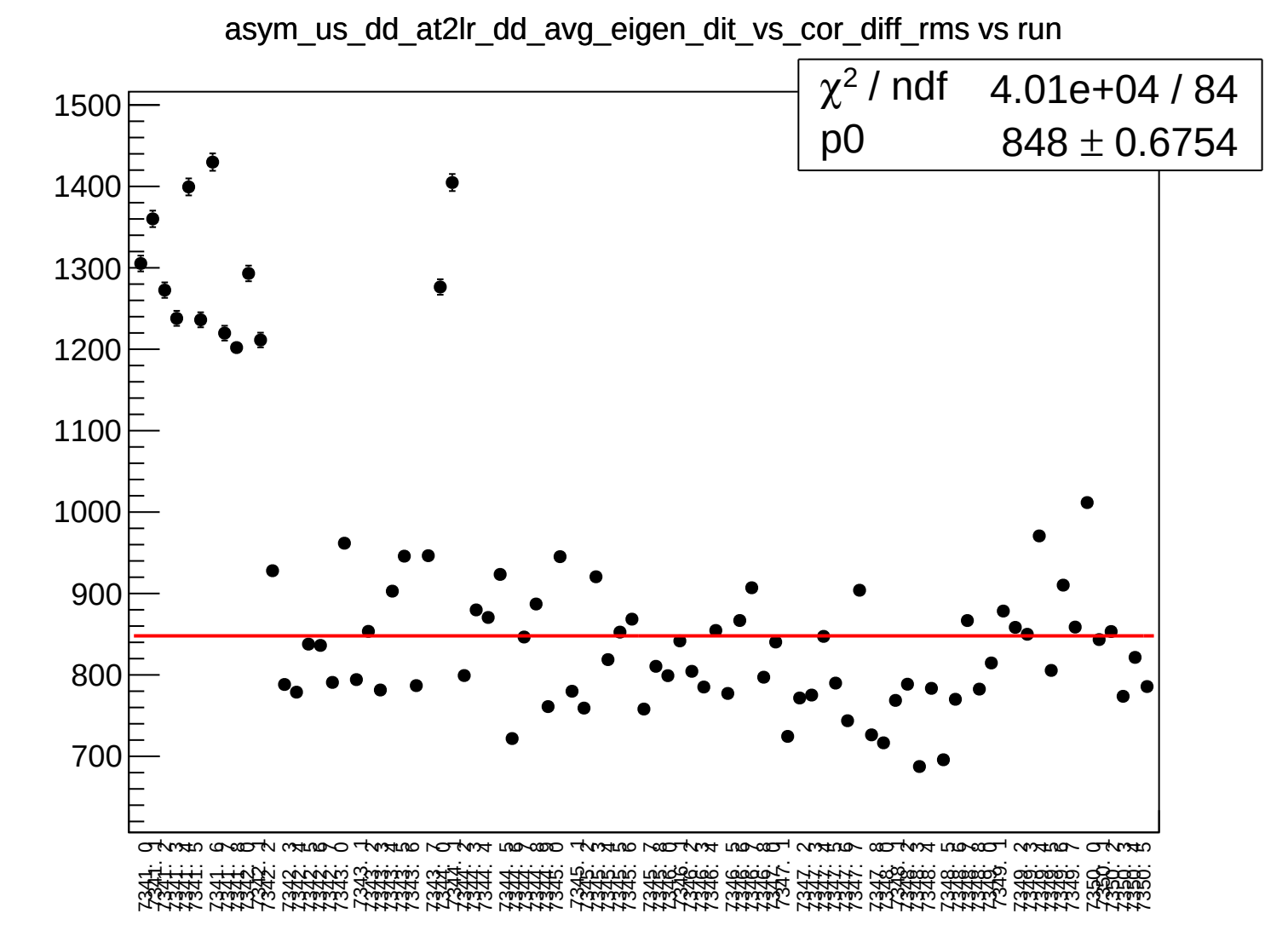

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.54 / 84
p0 8.144e−06 ± 1.519e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 85
Mean −187.3
Std Dev 0
2
1
0
−1
−2

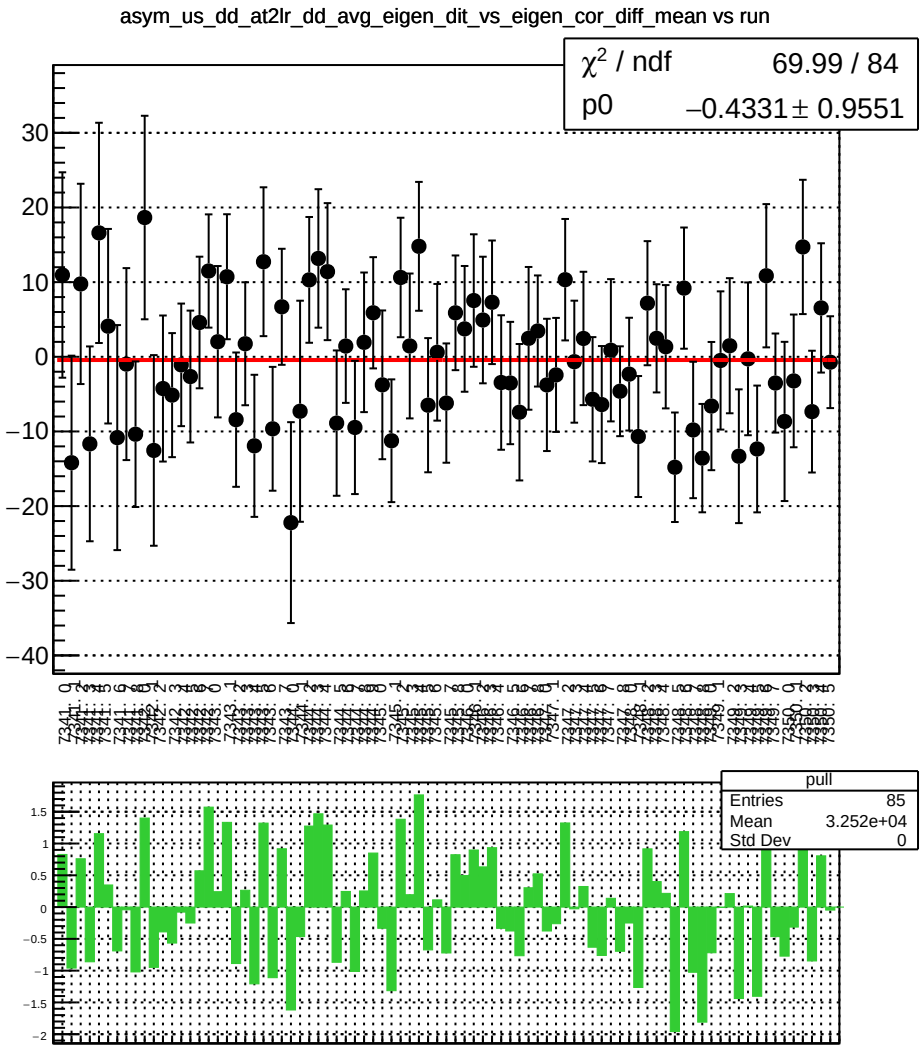

pull1D
Entries 85
Mean −0.01026
Std Dev 0.9673
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

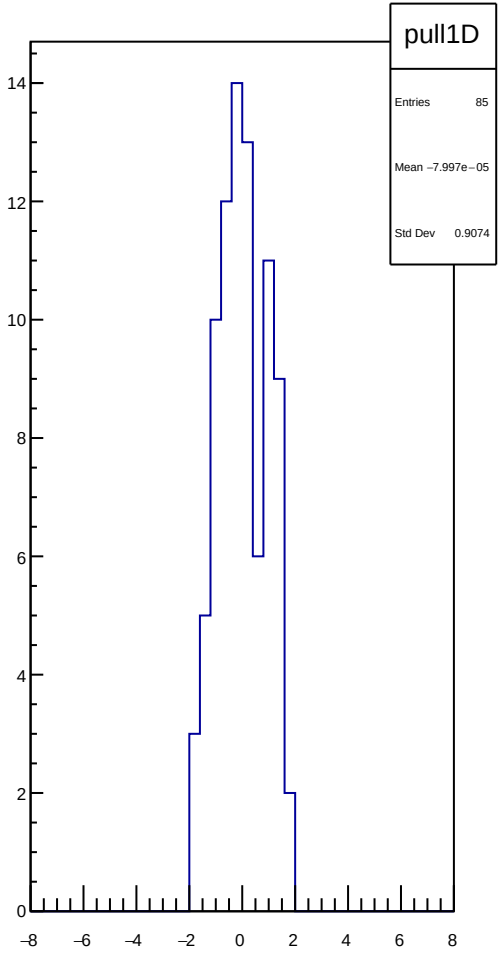

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5567 / 84
p0 0.01363 ± 1.074e−05
0.016
0.015
0.014
0.013
0.012

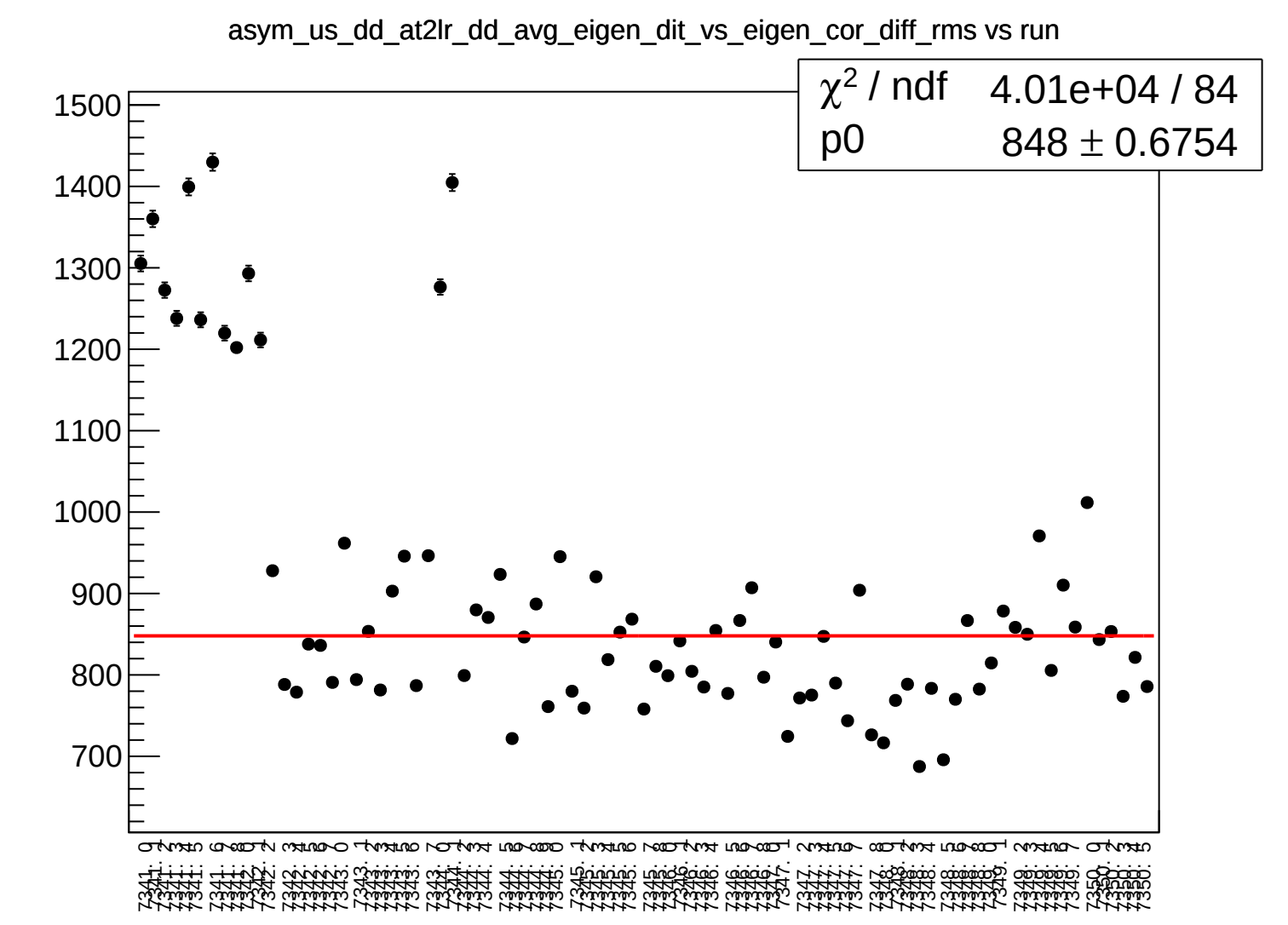

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.99 / 84
p0 −0.4331 ± 0.9551
pull
Entries 85
Mean 3.252e+04
Std Dev 0

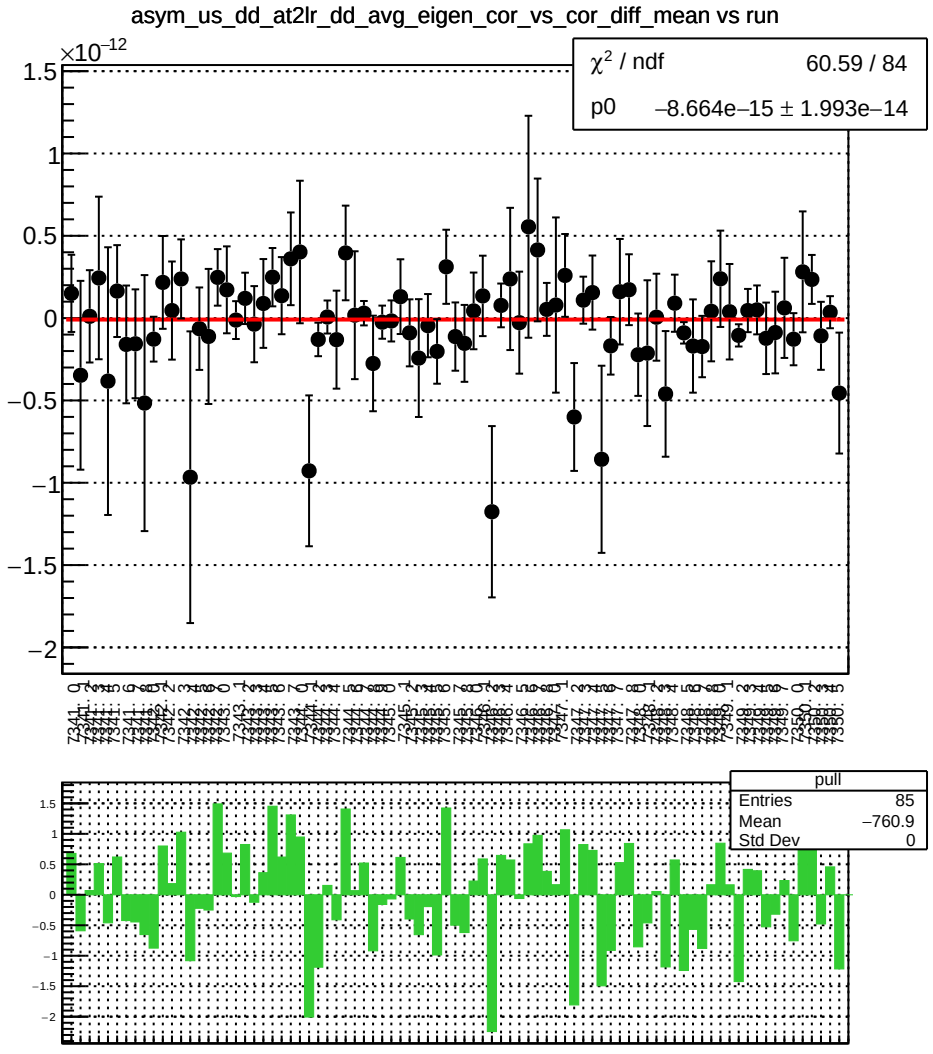

pull1D
Entries 85
Mean −7.997e−05
Std Dev 0.9074

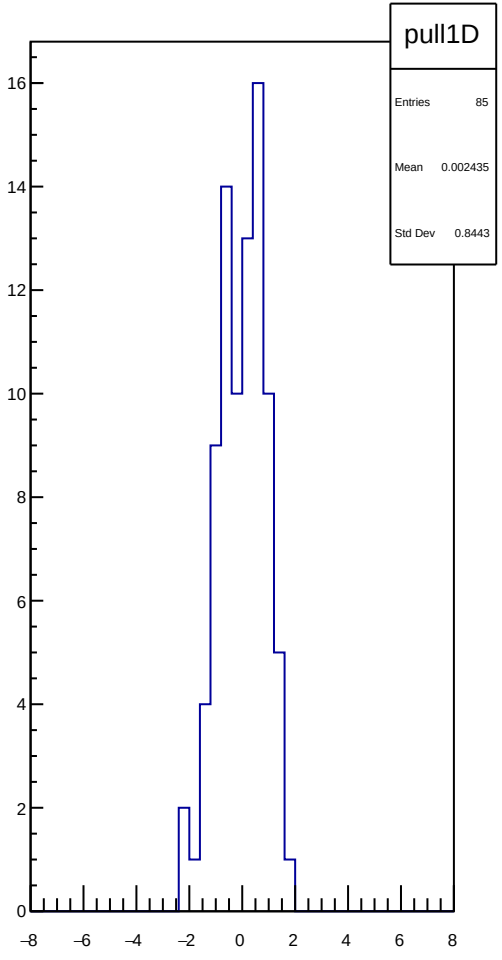

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.01e+04 / 84
p0 848 ± 0.6754
1500
1400
1300
1200
1100
1000
900
800
700

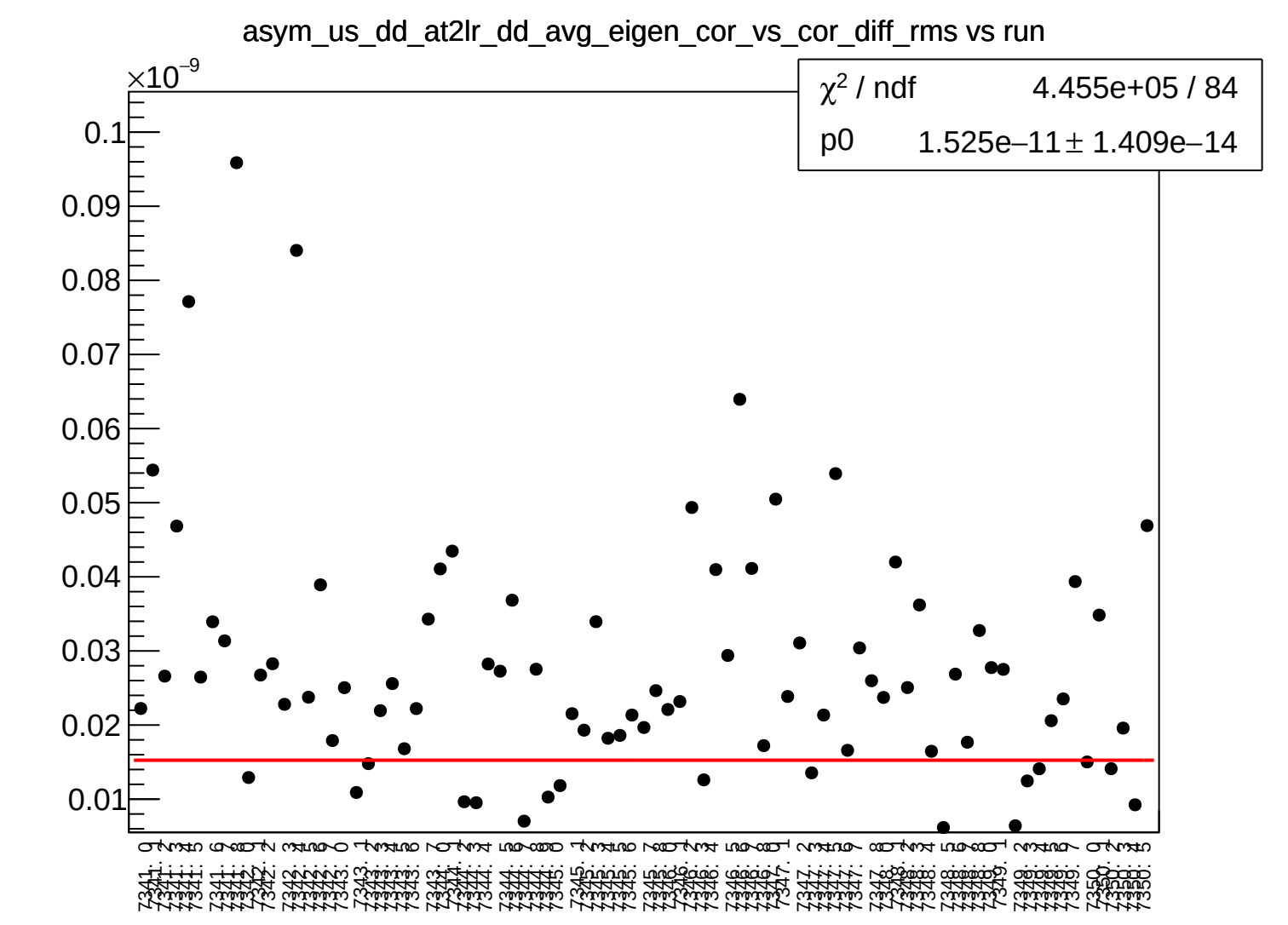

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.99 / 84
p0 −0.4331 ± 0.9551
pull
Entries 85
Mean 3.252e+04
Std Dev 0

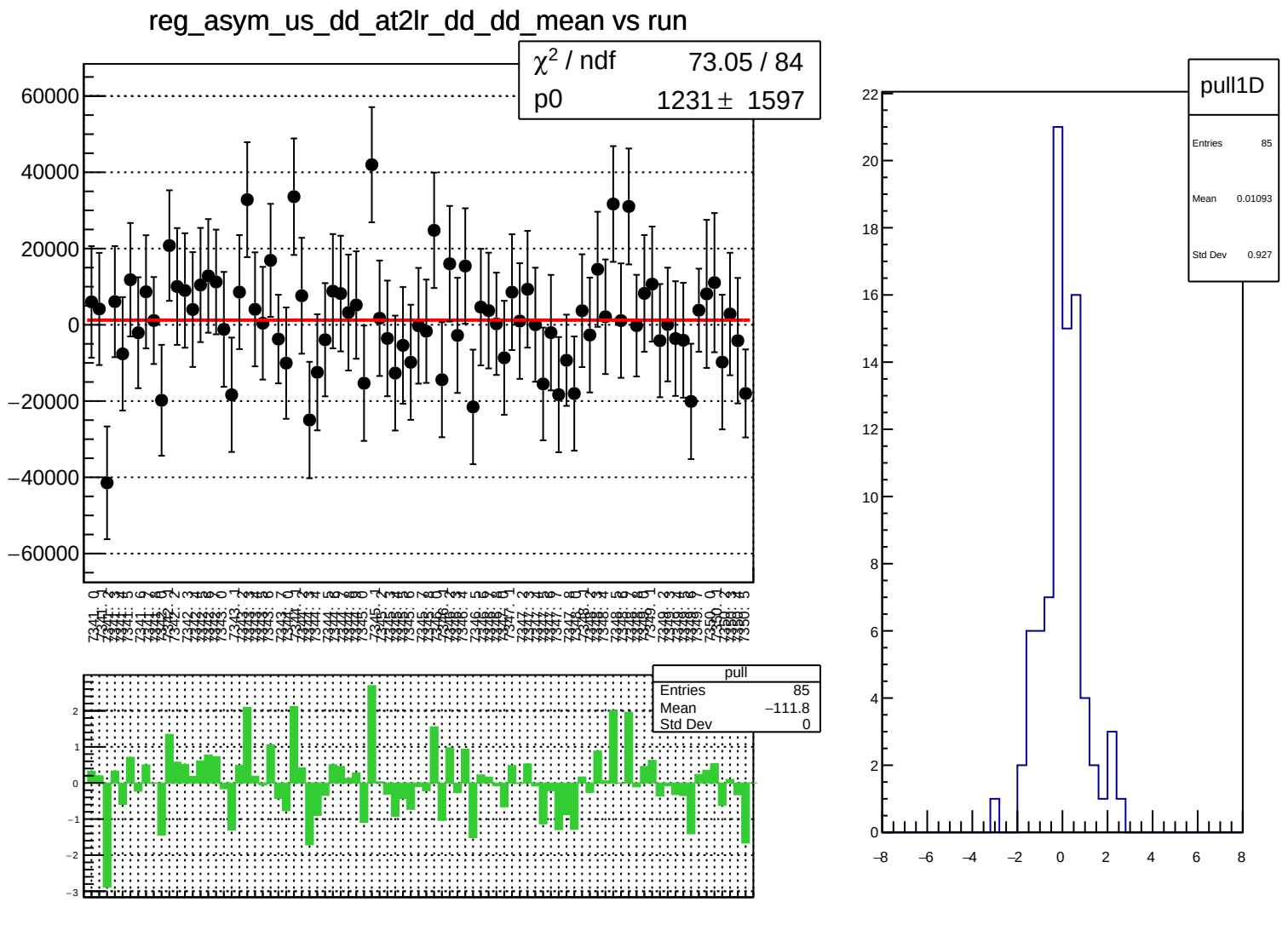

pull1D
Entries 85
Mean −7.997e−05
Std Dev 0.9074

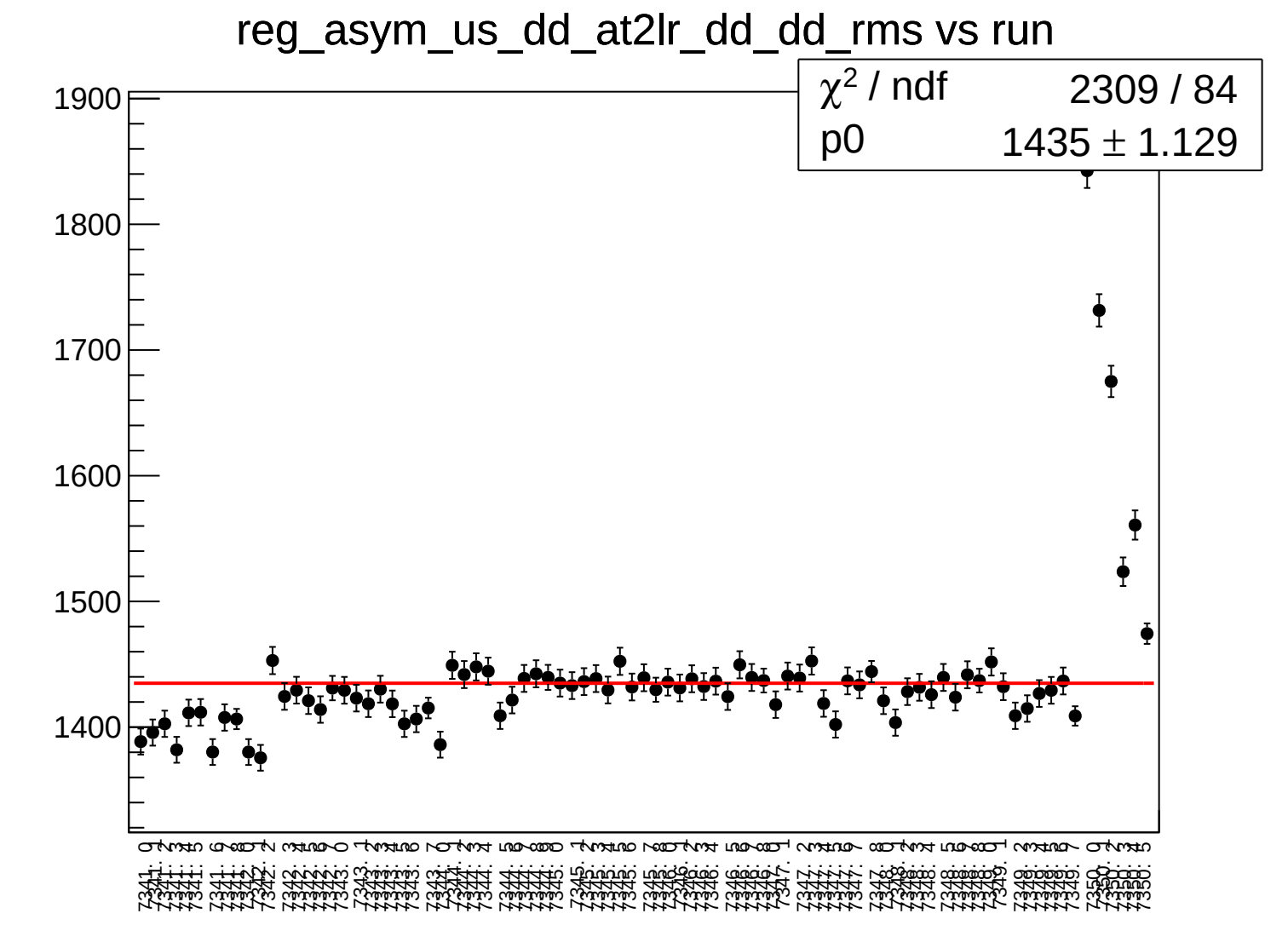

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.01e+04 / 84
p0 848 ± 0.6754
1500
1400
1300
1200
1100
1000
900
800
700

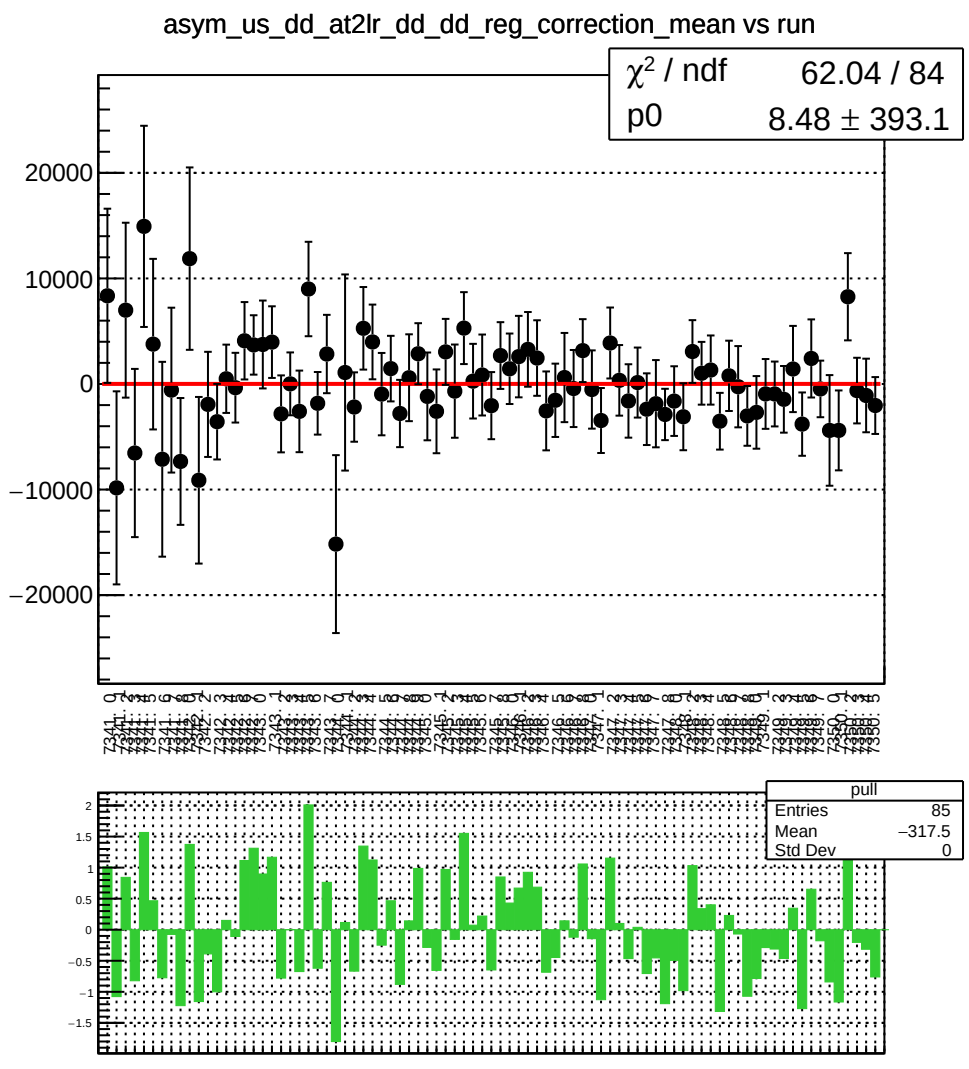

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.59 / 84
p0 −8.664e−15 ± 1.993e−14
pull
Entries 85
Mean −760.9
Std Dev 0

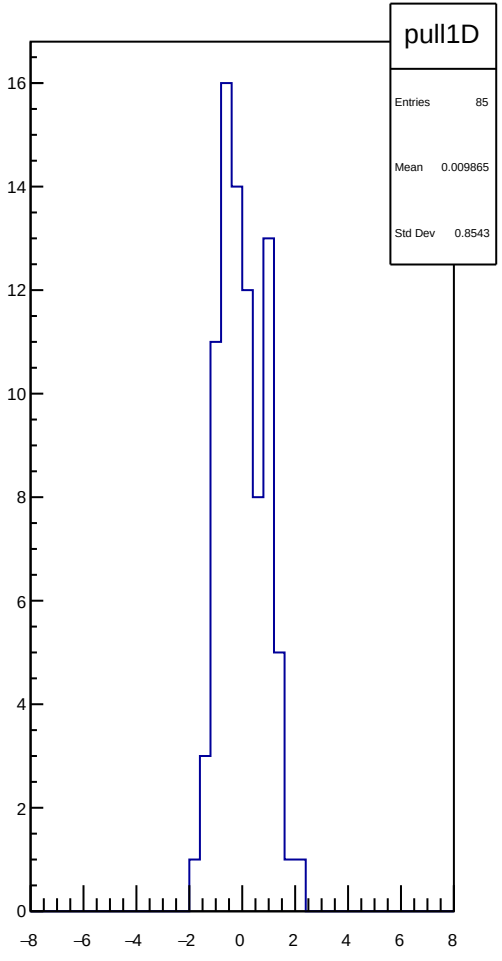

pull1D
Entries 85
Mean 0.002435
Std Dev 0.8443

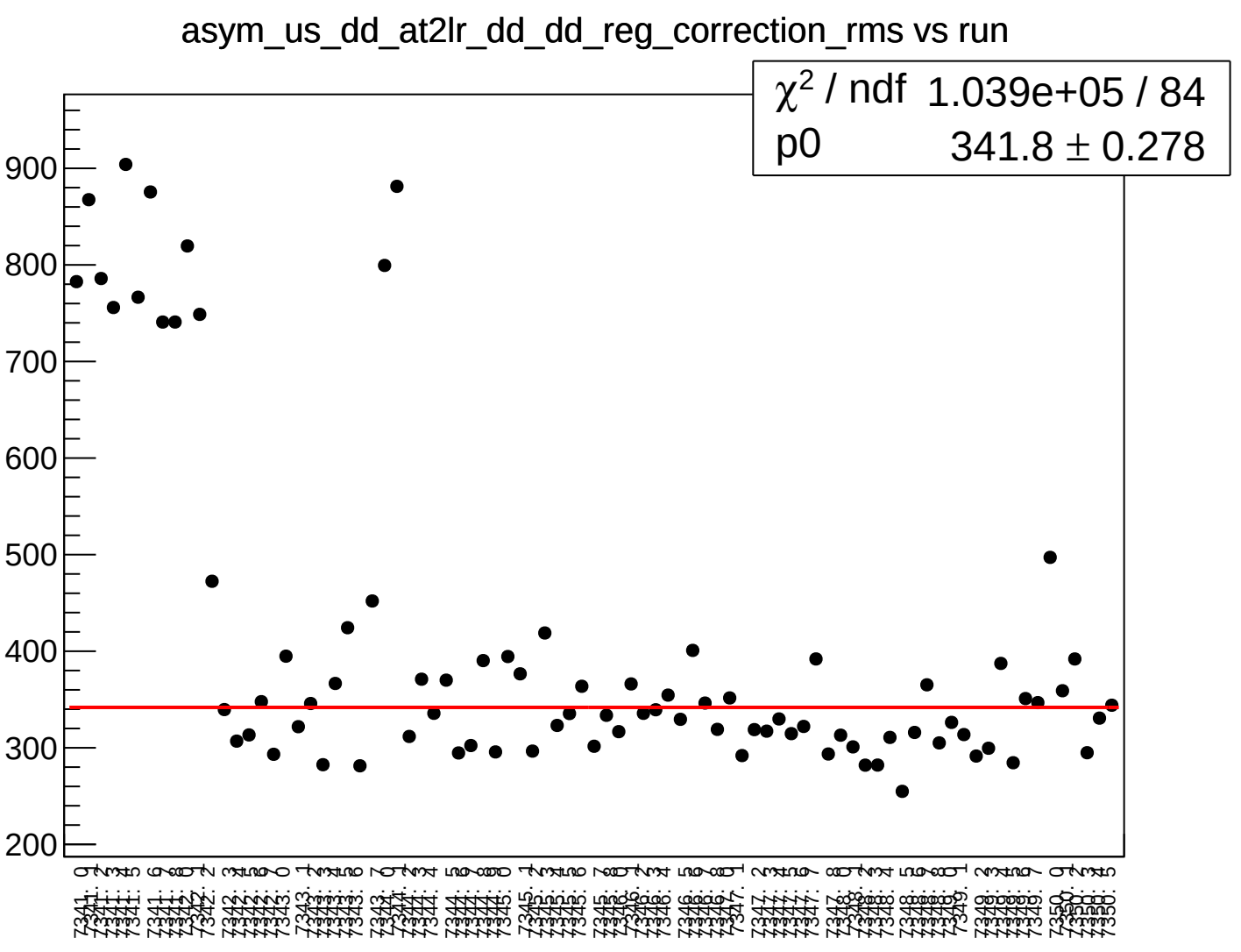

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.455e+05 / 84
p0 1.525e−11 ± 1.409e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

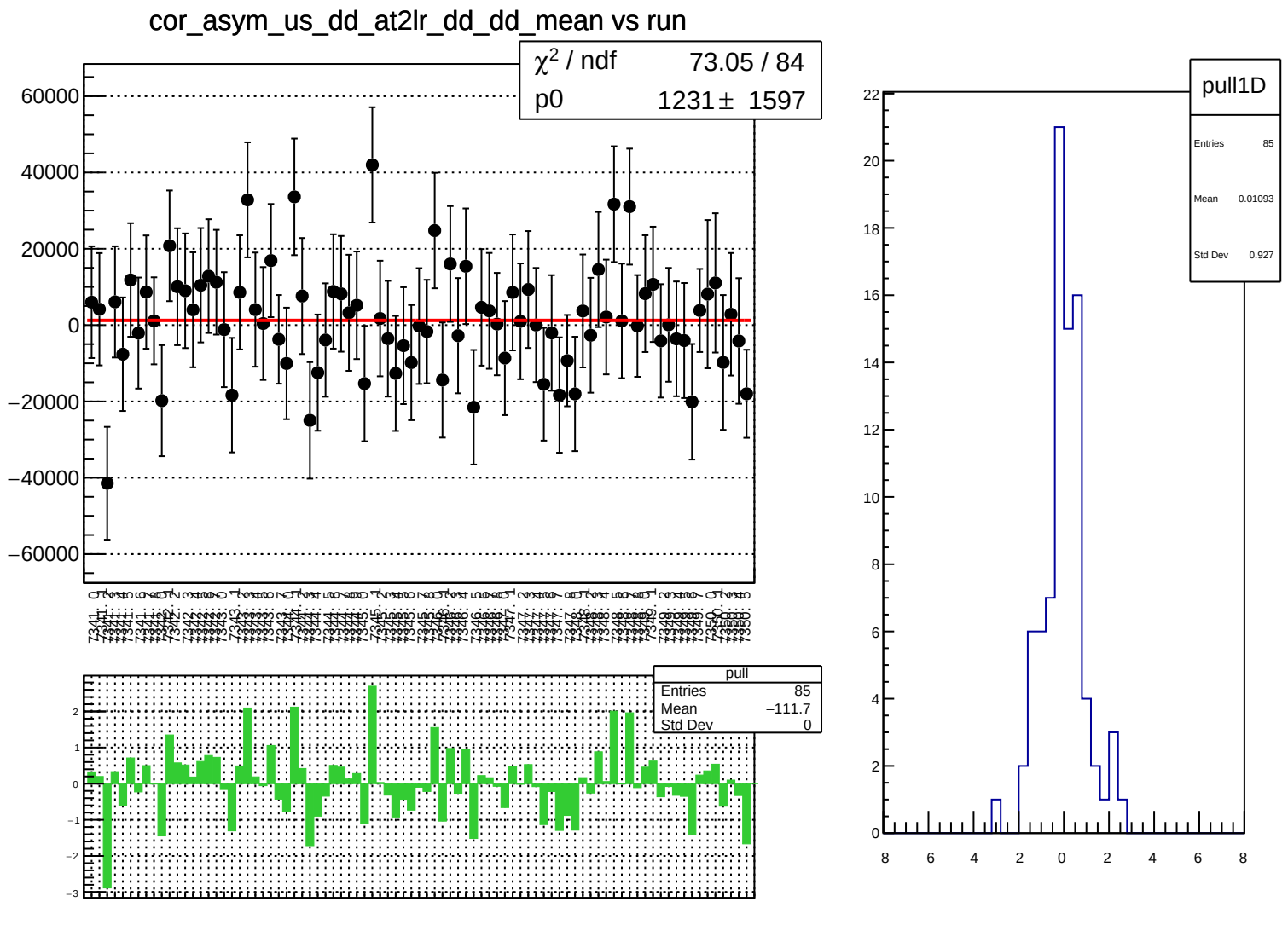

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 73.05 / 84
p0 1231 ± 1597
pull
Entries 85
Mean −111.8
Std Dev 0
pull1D
Entries 85
Mean 0.01093
Std Dev 0.927

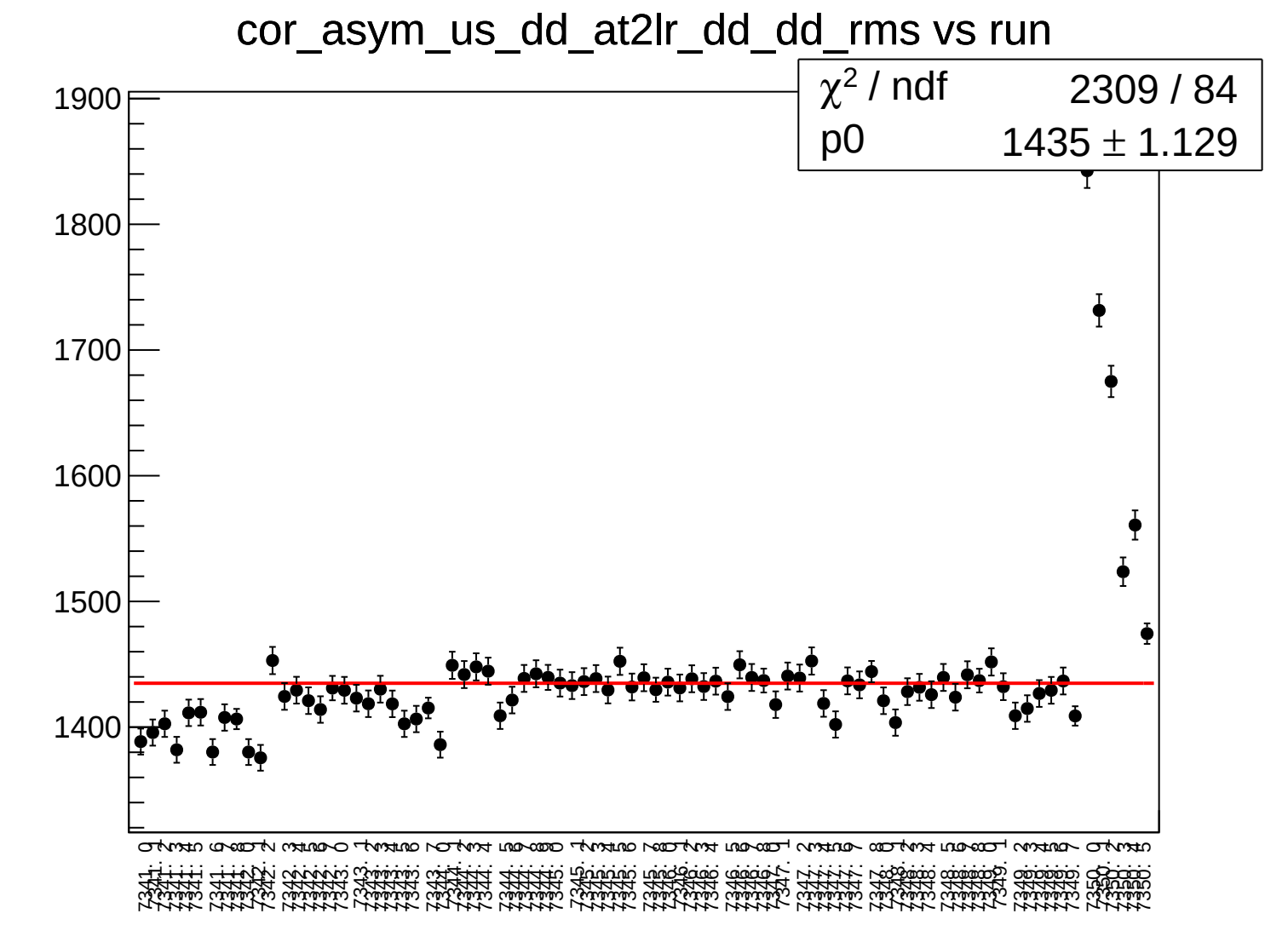

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2309 / 84
p0 1435 ± 1.129
1900
1800
1700
1600
1500
1400

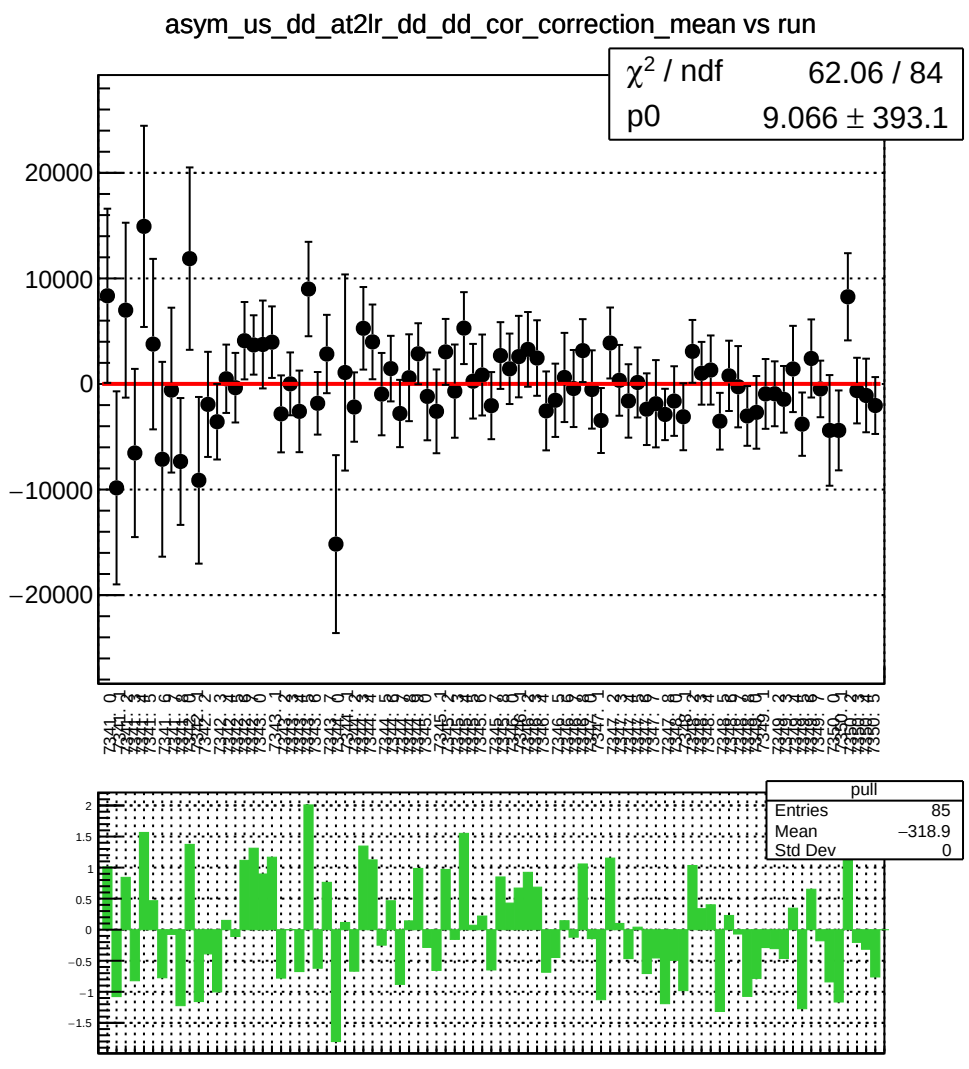

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 62.04 / 84
p0 8.48 ± 393.1
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −317.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

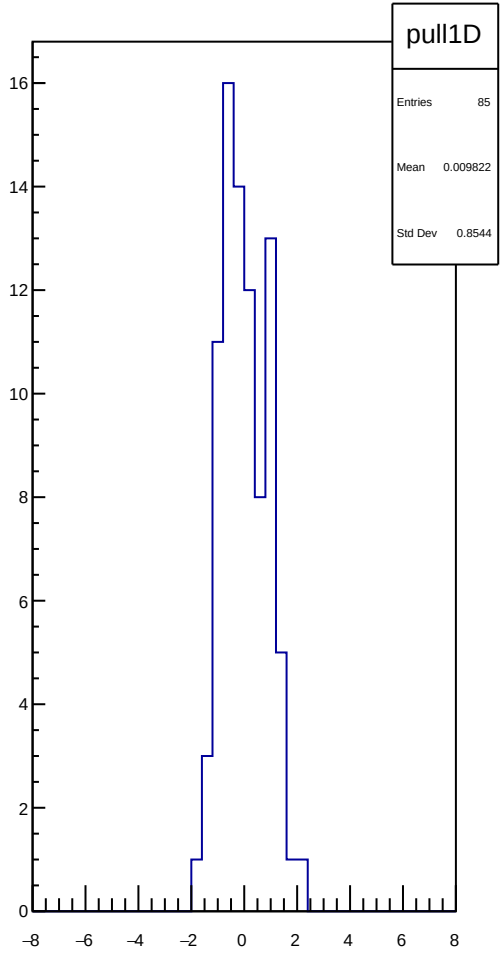

pull1D
Entries 85
Mean 0.009865
Std Dev 0.8543
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

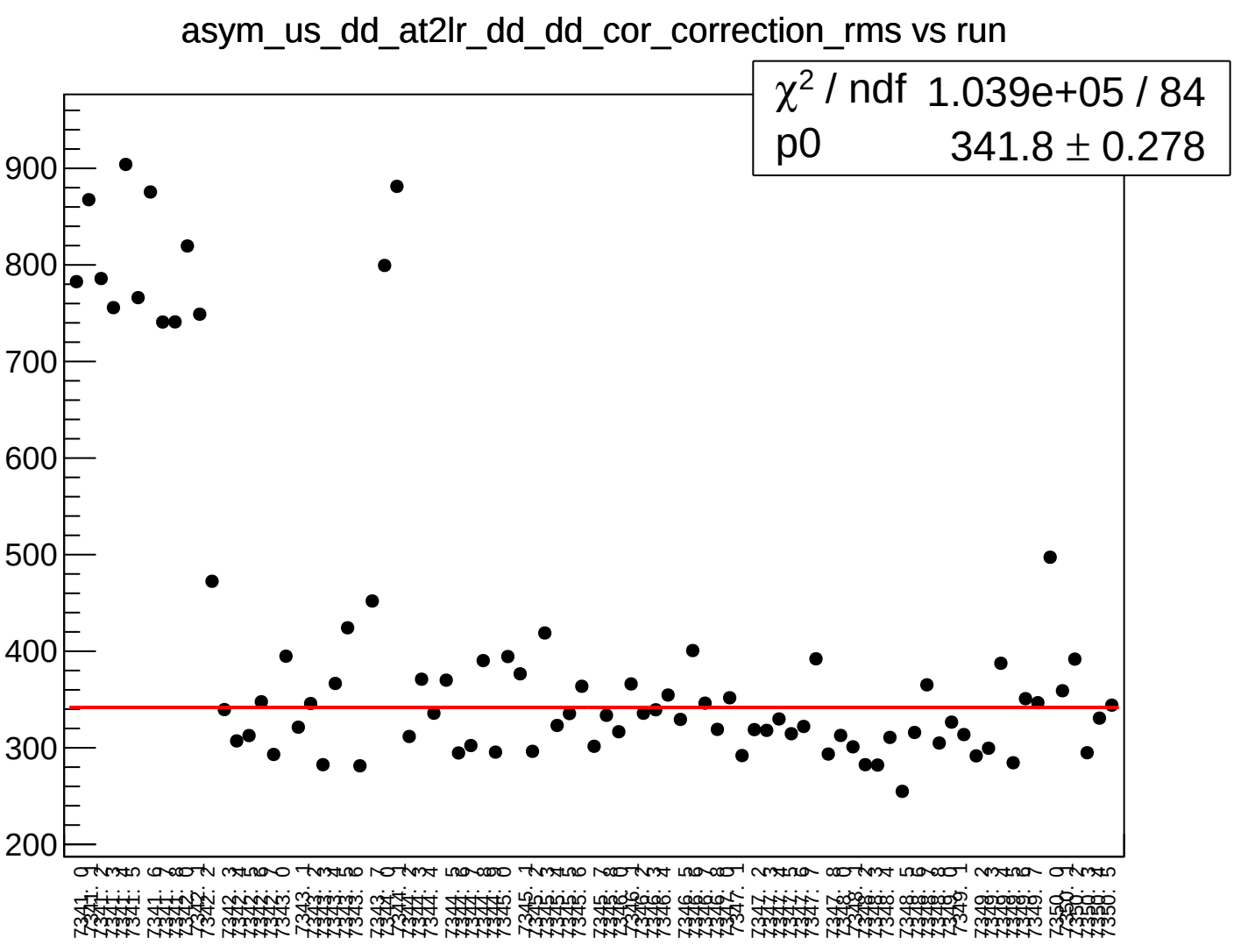

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.039e+05 / 84
p0 341.8 ± 0.278
900
800
700
600
500
400
300
200

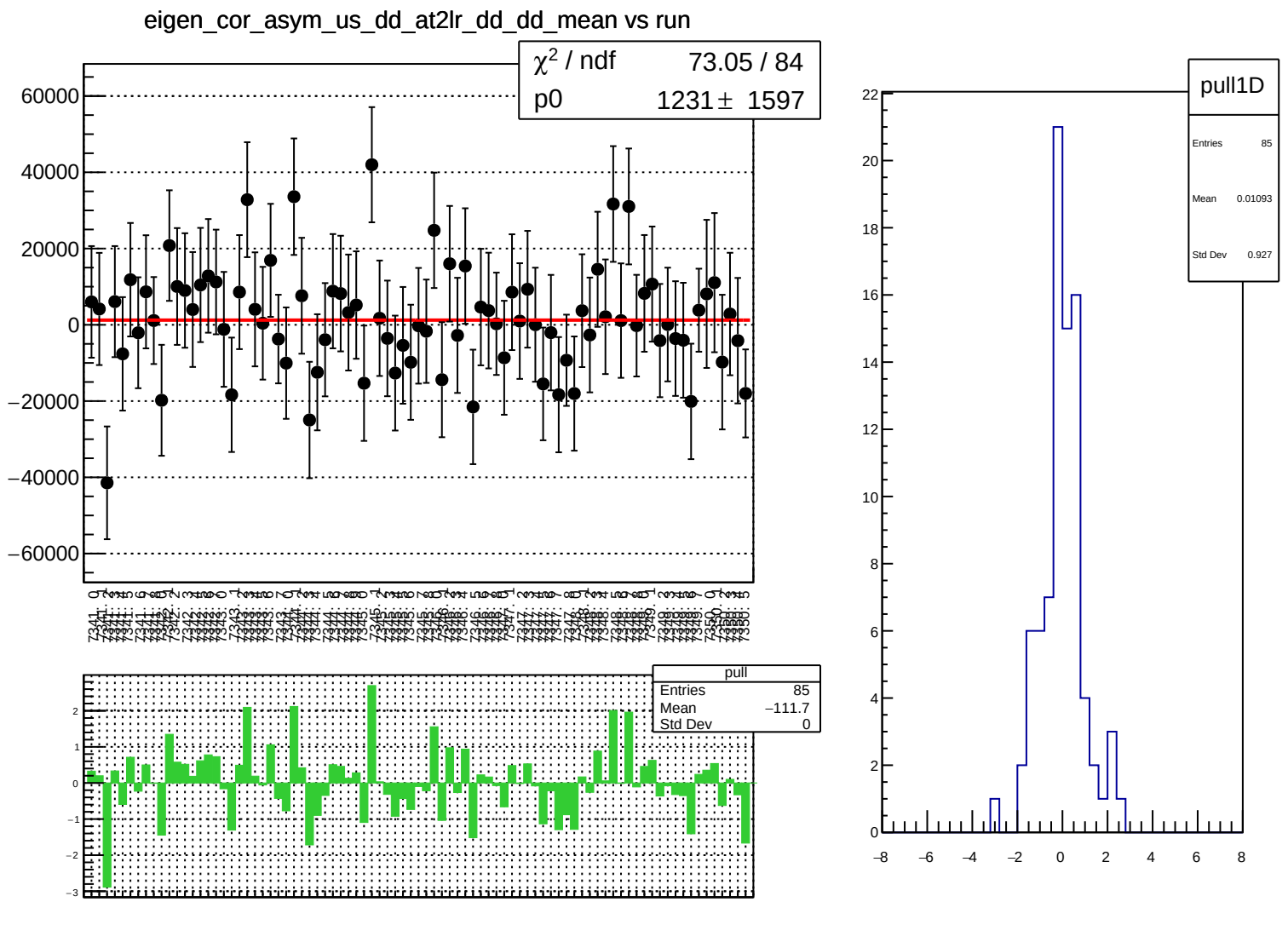

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 73.05 / 84
p0 1231 ± 1597
pull
Entries 85
Mean −111.7
Std Dev 0
pull1D
Entries 85
Mean 0.01093
Std Dev 0.927

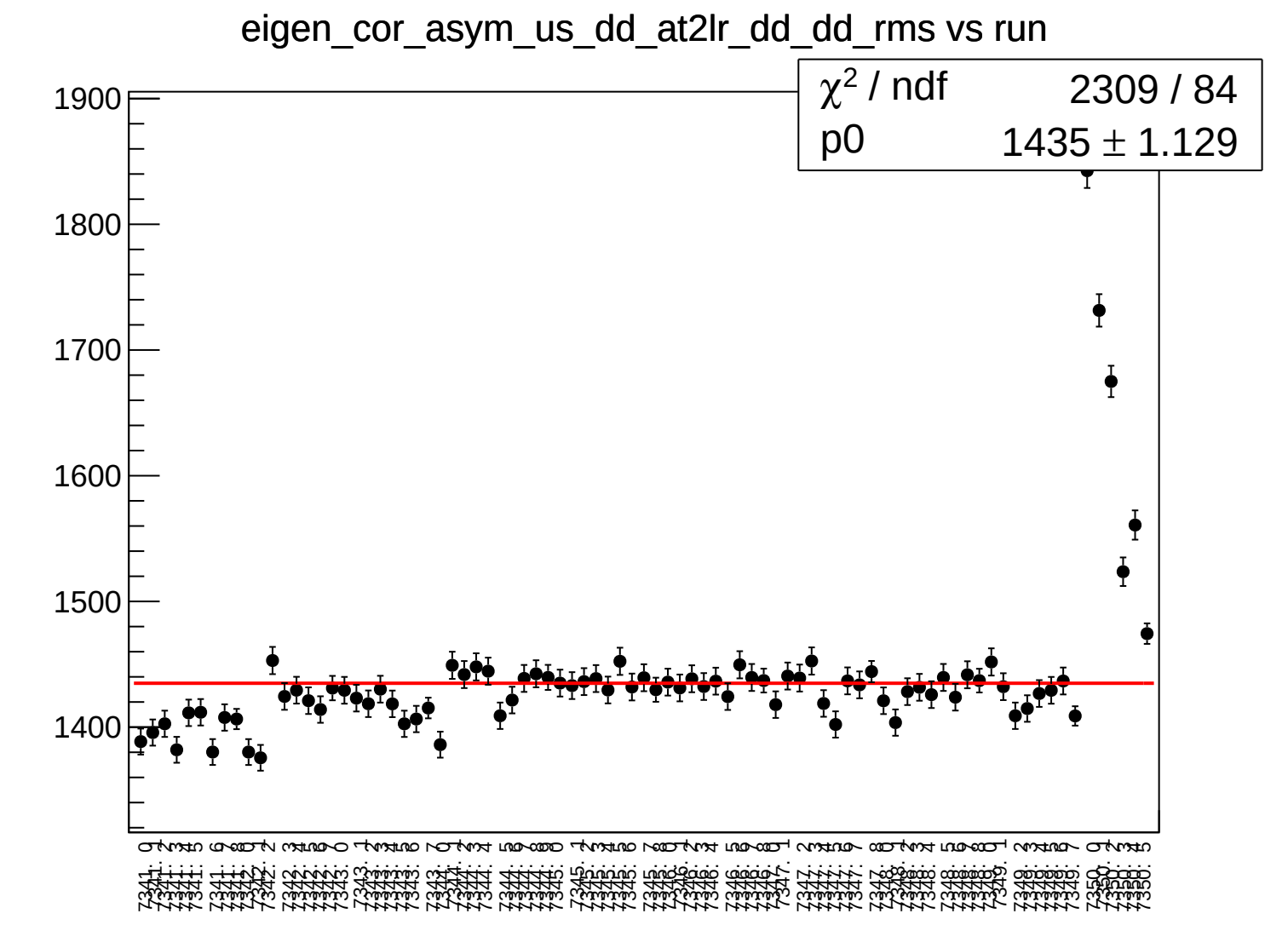

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2309 / 84
p0 1435 ± 1.129
1900
1800
1700
1600
1500
1400

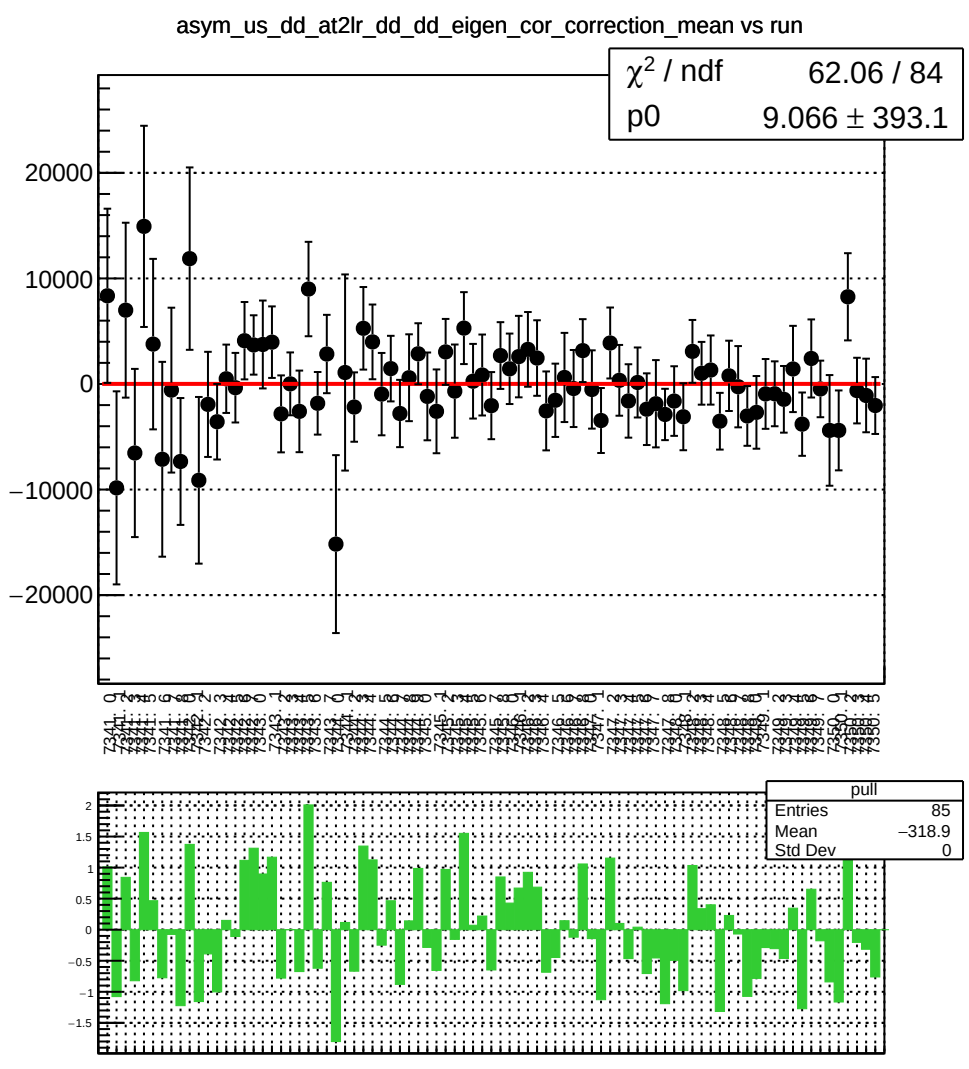

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 62.06 / 84
p0 9.066 ± 393.1
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −318.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

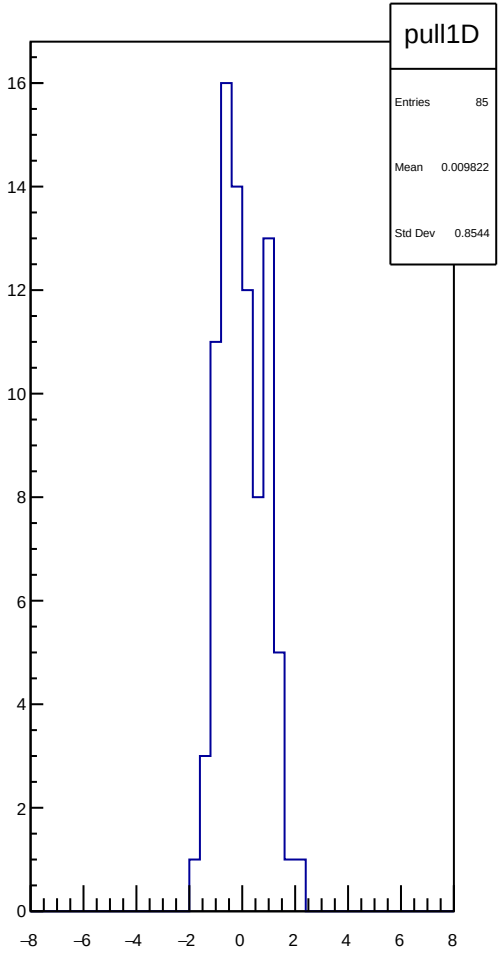

pull1D
Entries 85
Mean 0.009822
Std Dev 0.8544
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

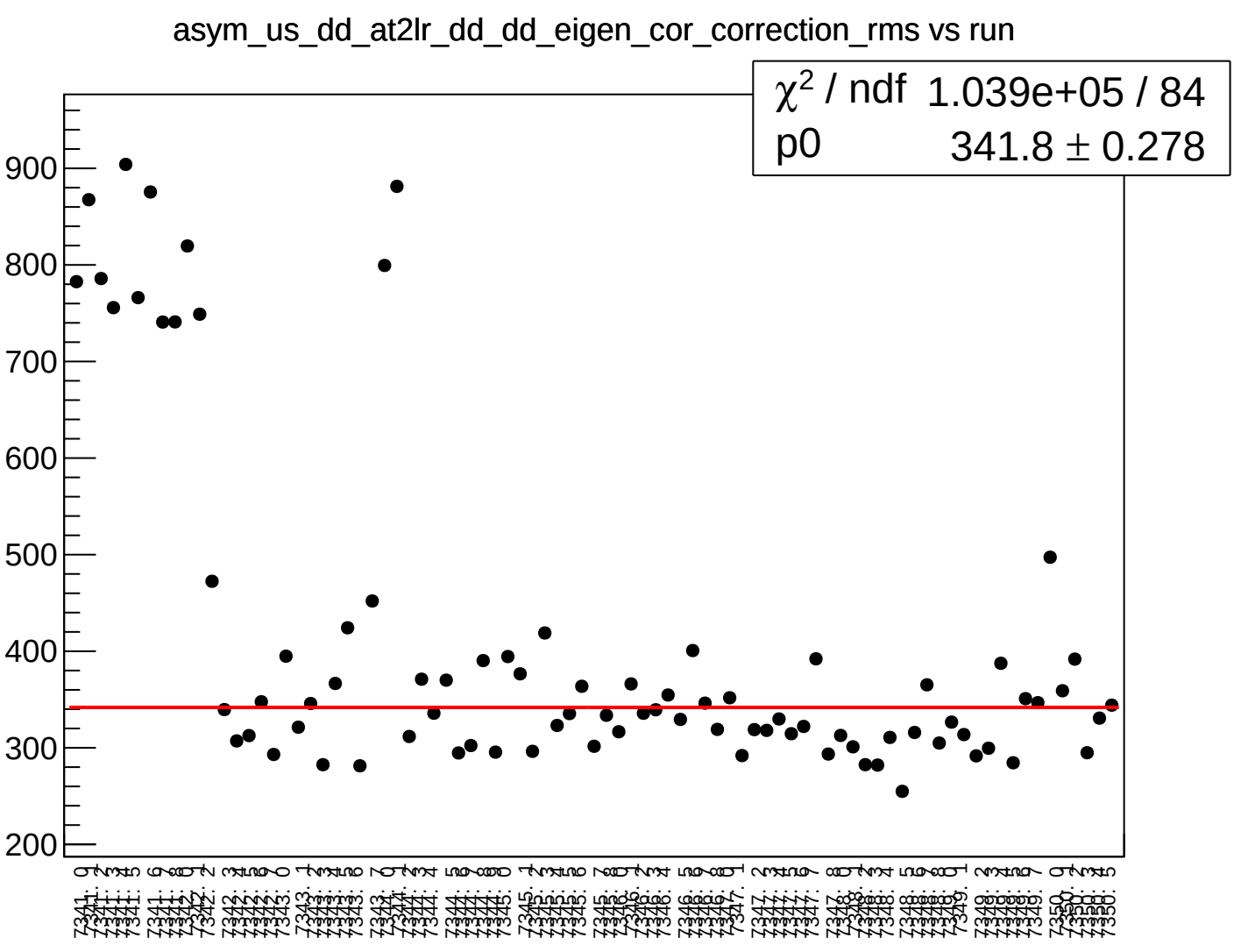

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ^2 / ndf 1.039e+05 / 84
p0 341.8 ± 0.278
900
800
700
600
500
400
300
200

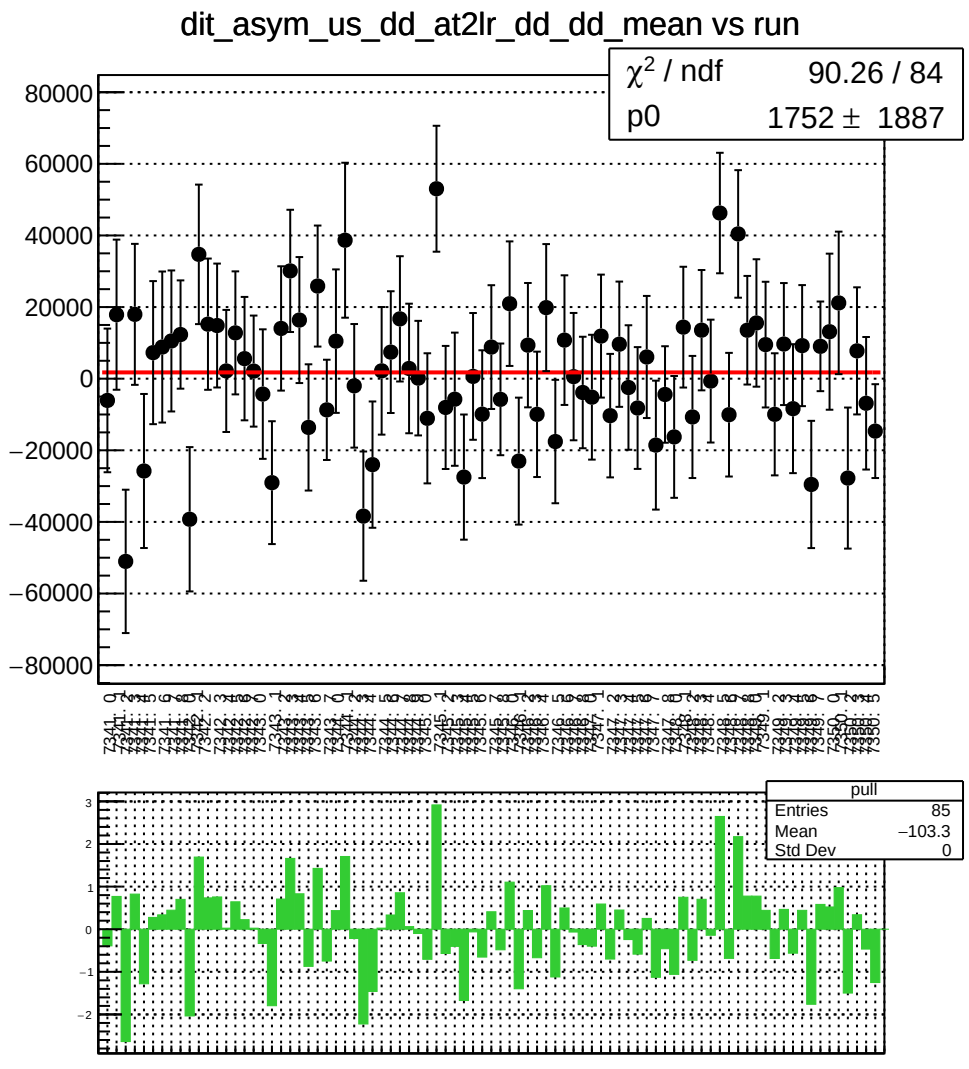

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 73.05 / 84
p0 1231 ± 1597
pull
Entries 85
Mean −111.7
Std Dev 0
pull1D
Entries 85
Mean 0.01093
Std Dev 0.927

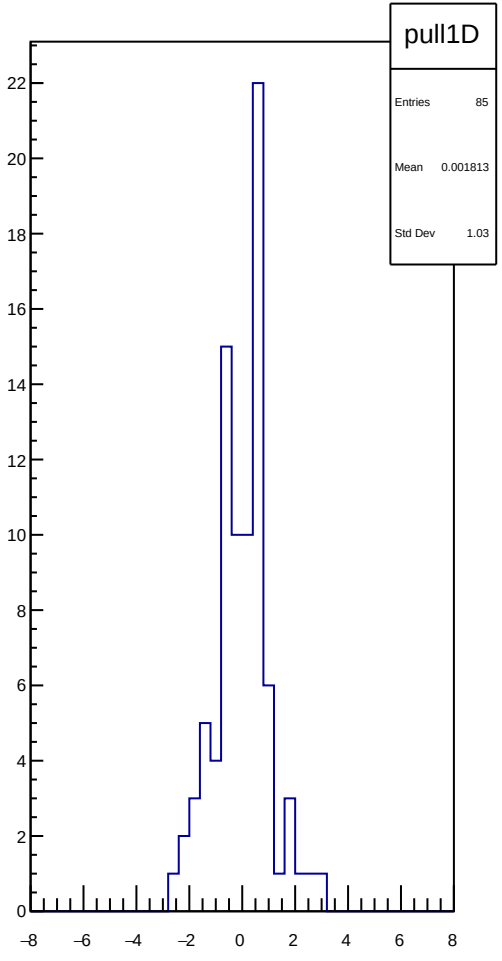

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2309 / 84
p0 1435 ± 1.129
1900
1800
1700
1600
1500
1400

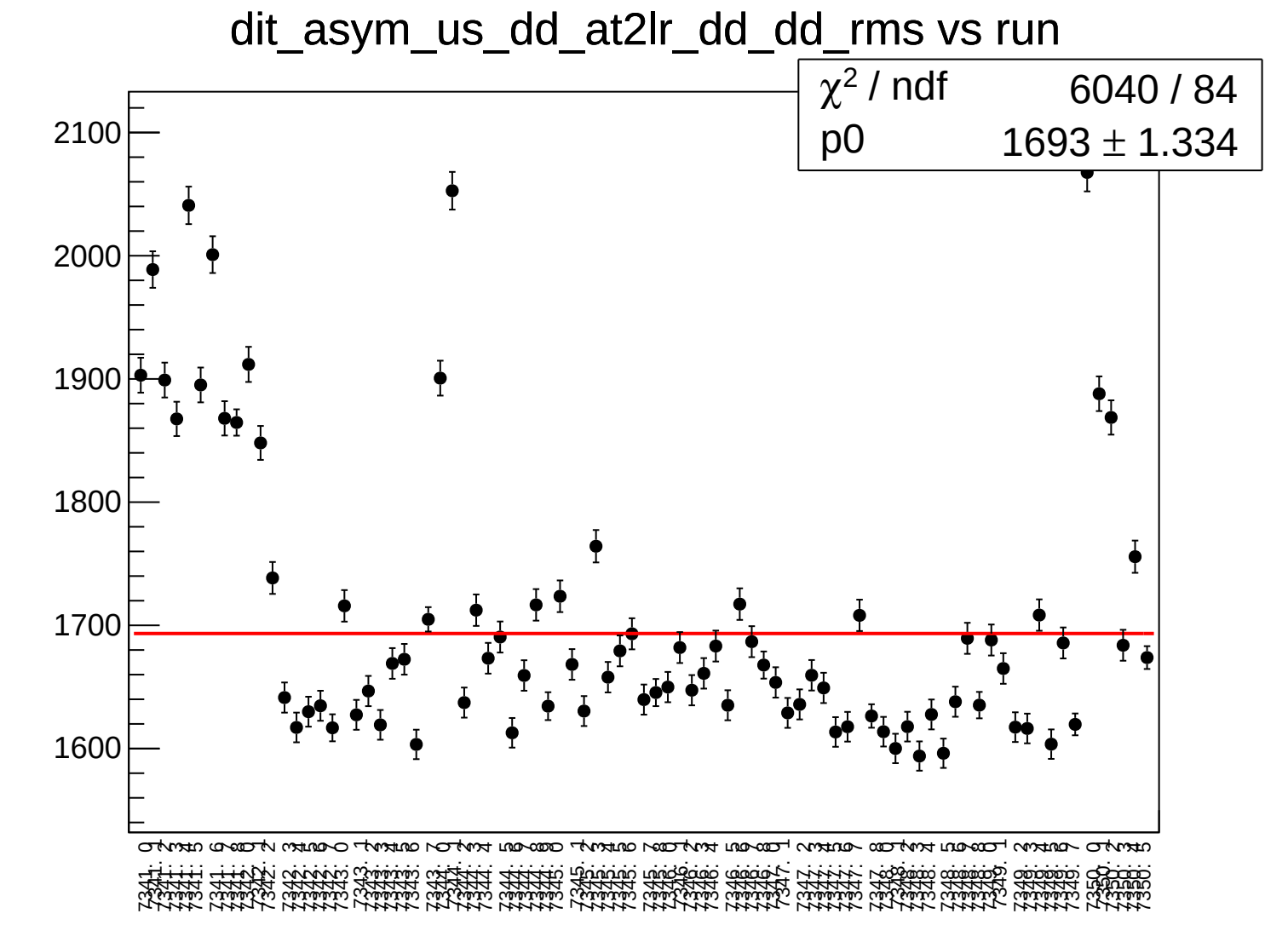

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 62.06 / 84
p0 9.066 ± 393.1
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −318.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

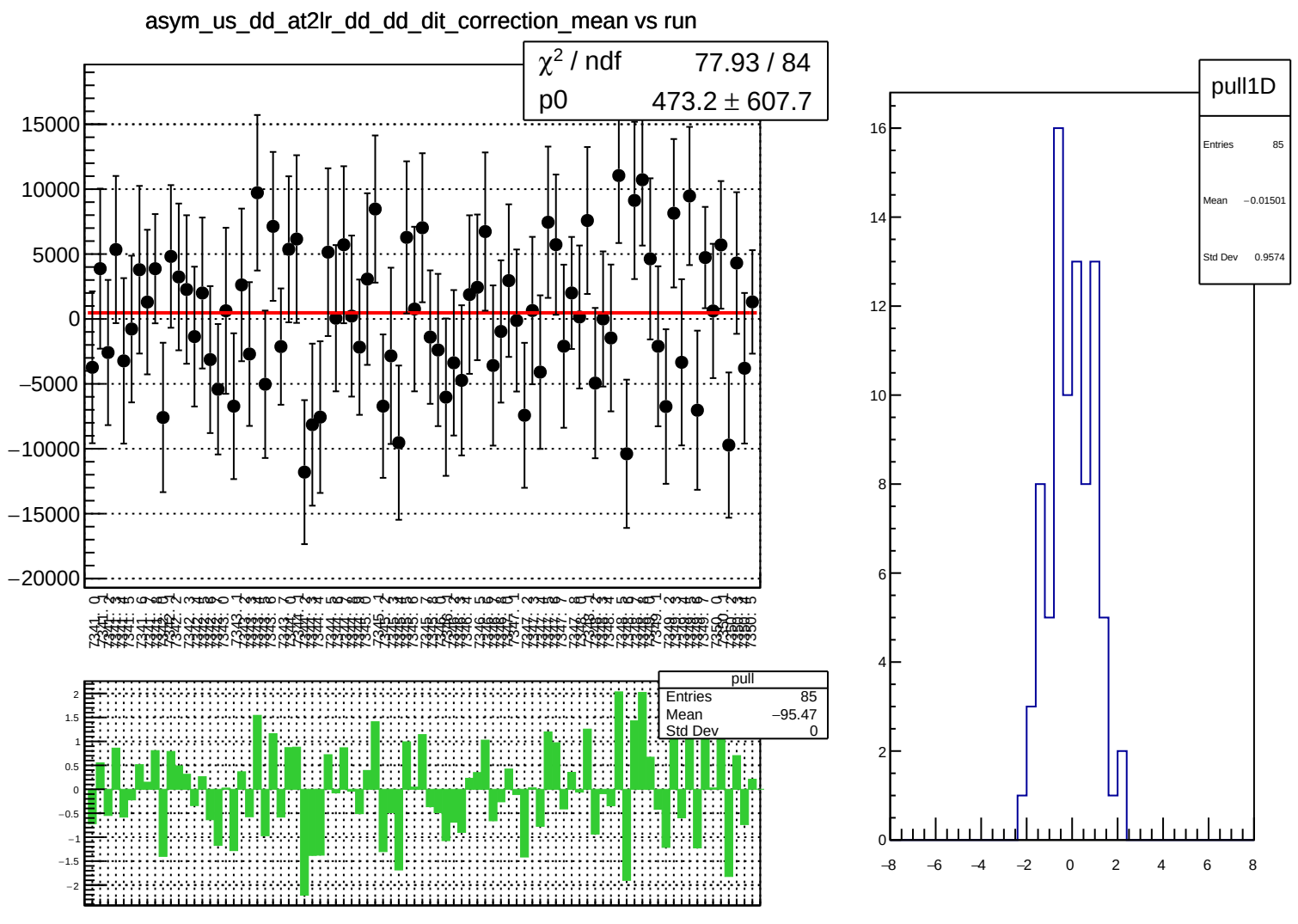

pull1D
Entries 85
Mean 0.009822
Std Dev 0.8544
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

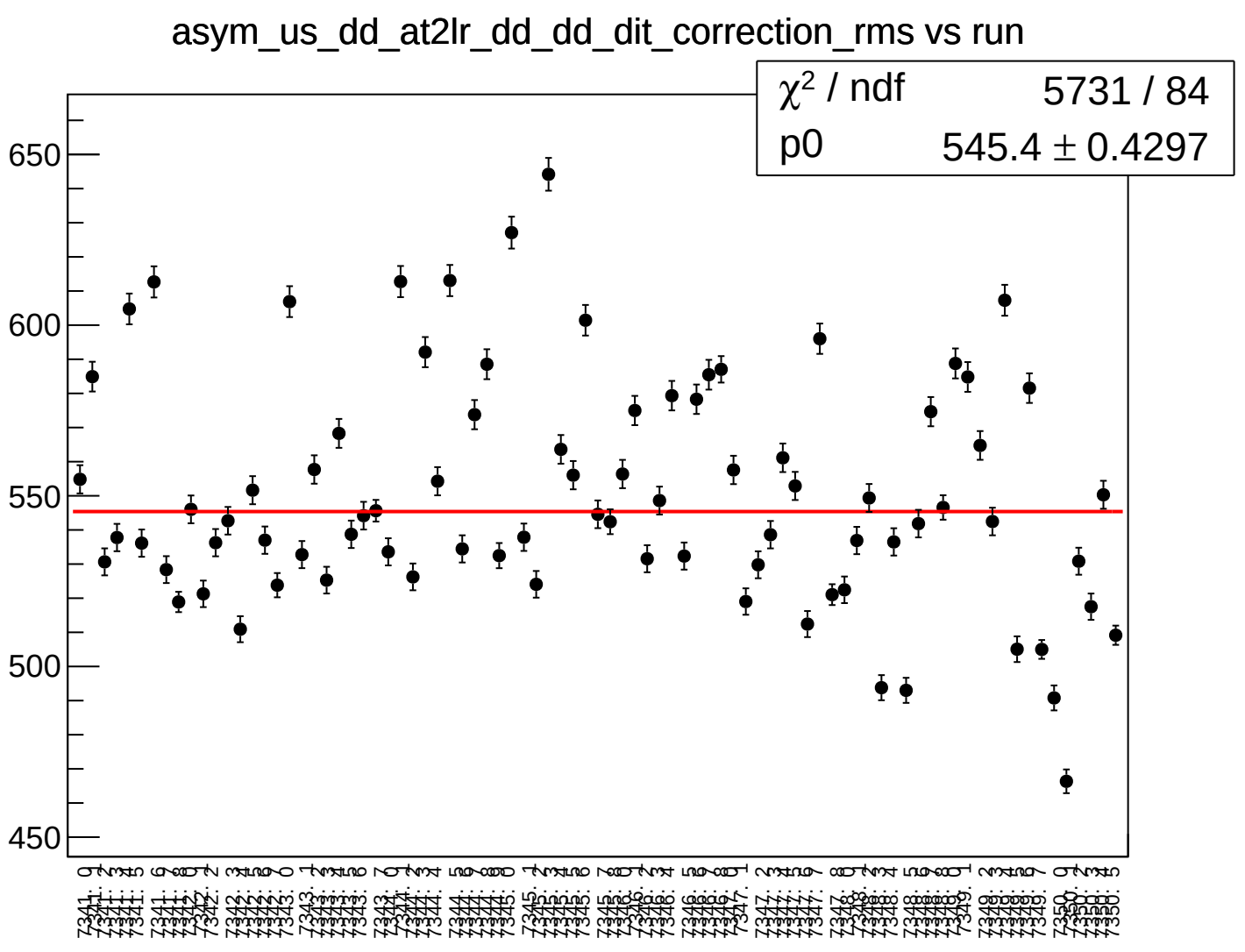

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.039e+05 / 84
p0 341.8 ± 0.278
900
800
700
600
500
400
300
200

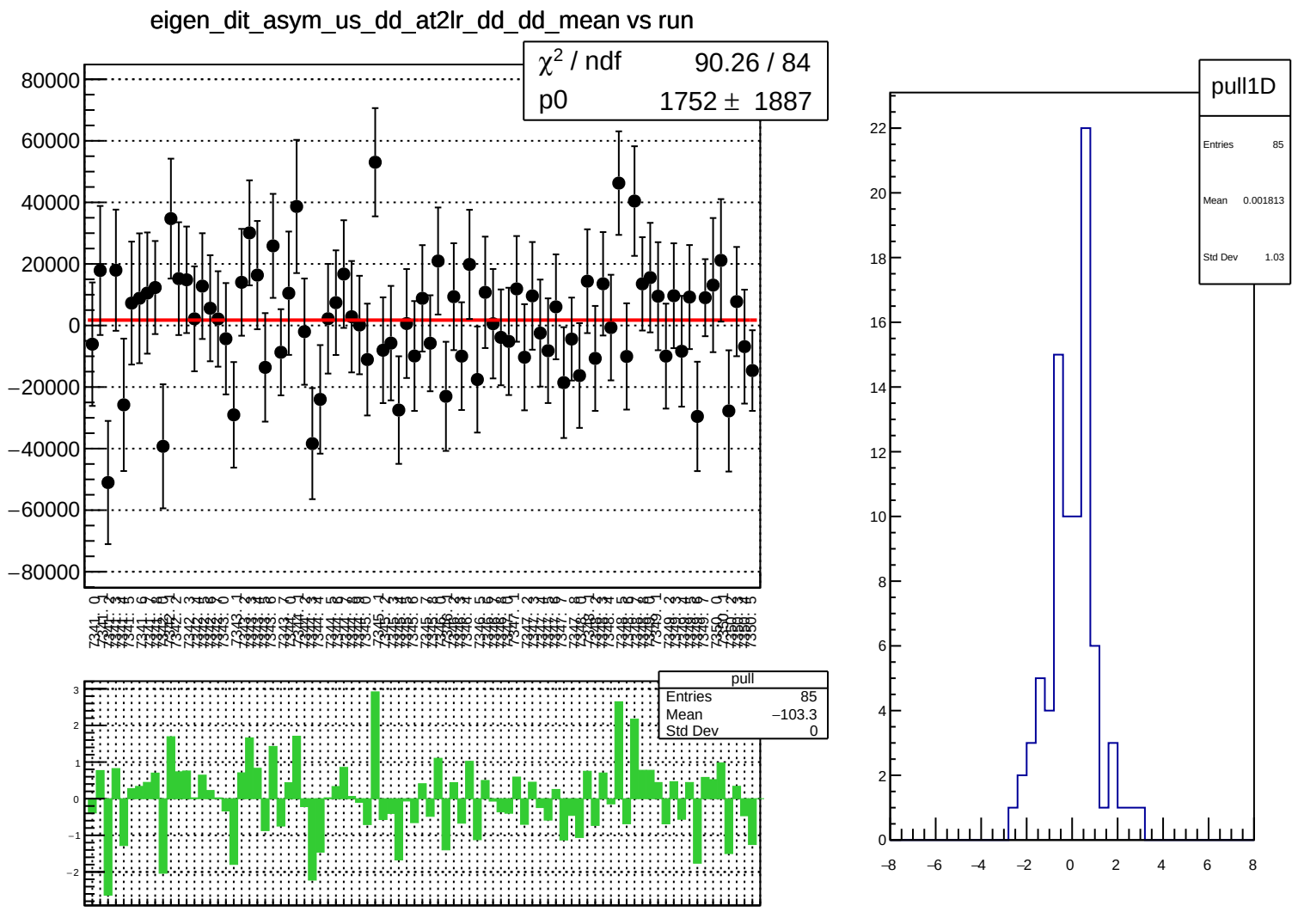

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.26 / 84
p0 1752 ± 1887
pull
Entries 85
Mean −103.3
Std Dev 0

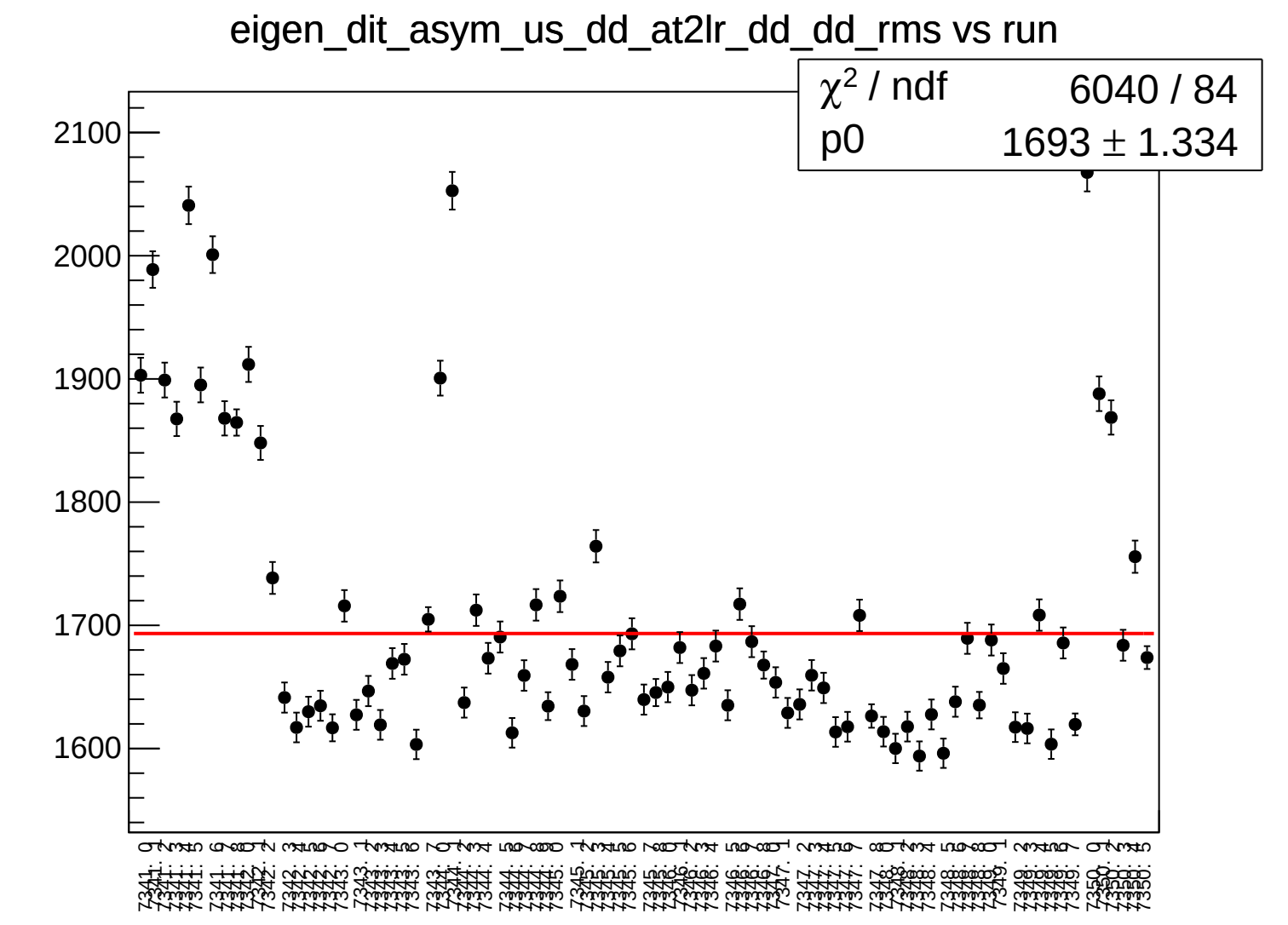

pull1D
Entries 85
Mean 0.001813
Std Dev 1.03

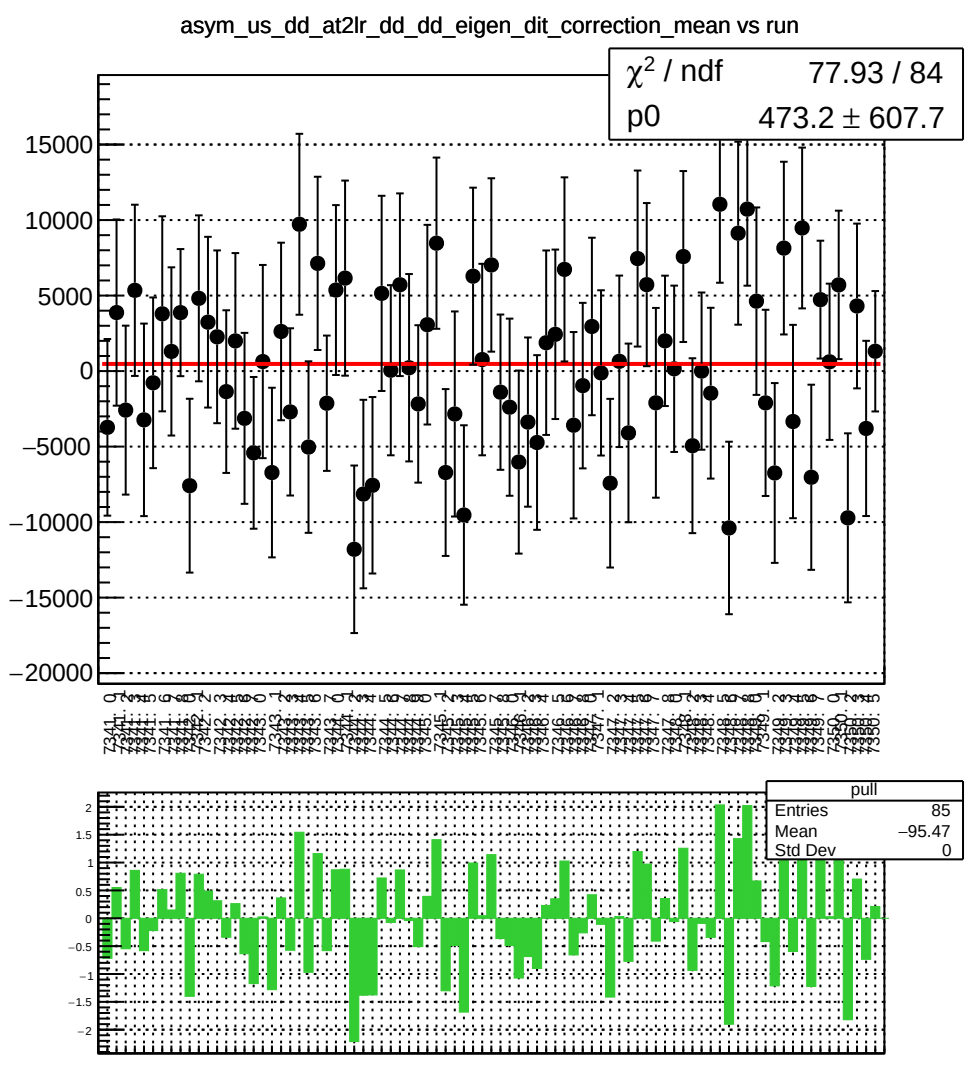

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 6040 / 84
p0 1693 ± 1.334
2100
2000
1900
1800
1700
1600

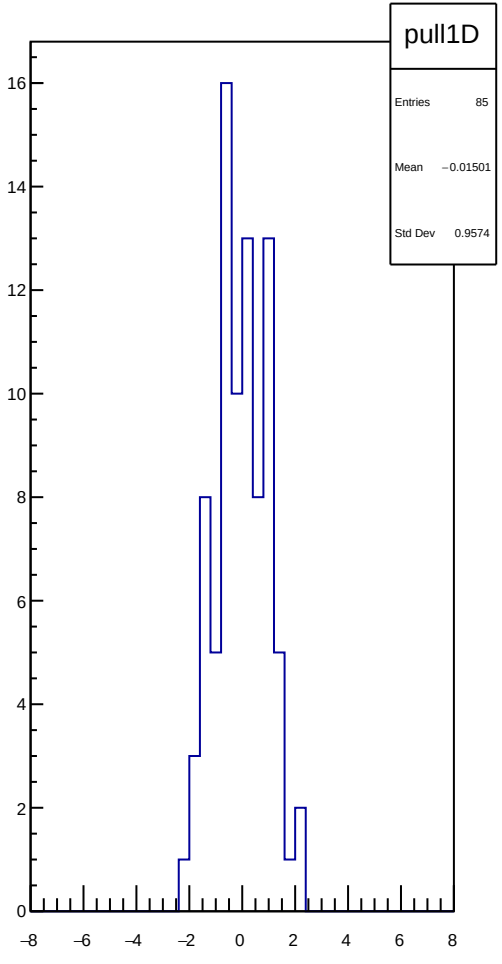

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 77.93 / 84
p0 473.2 ± 607.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean −95.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.01501
Std Dev 0.9574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

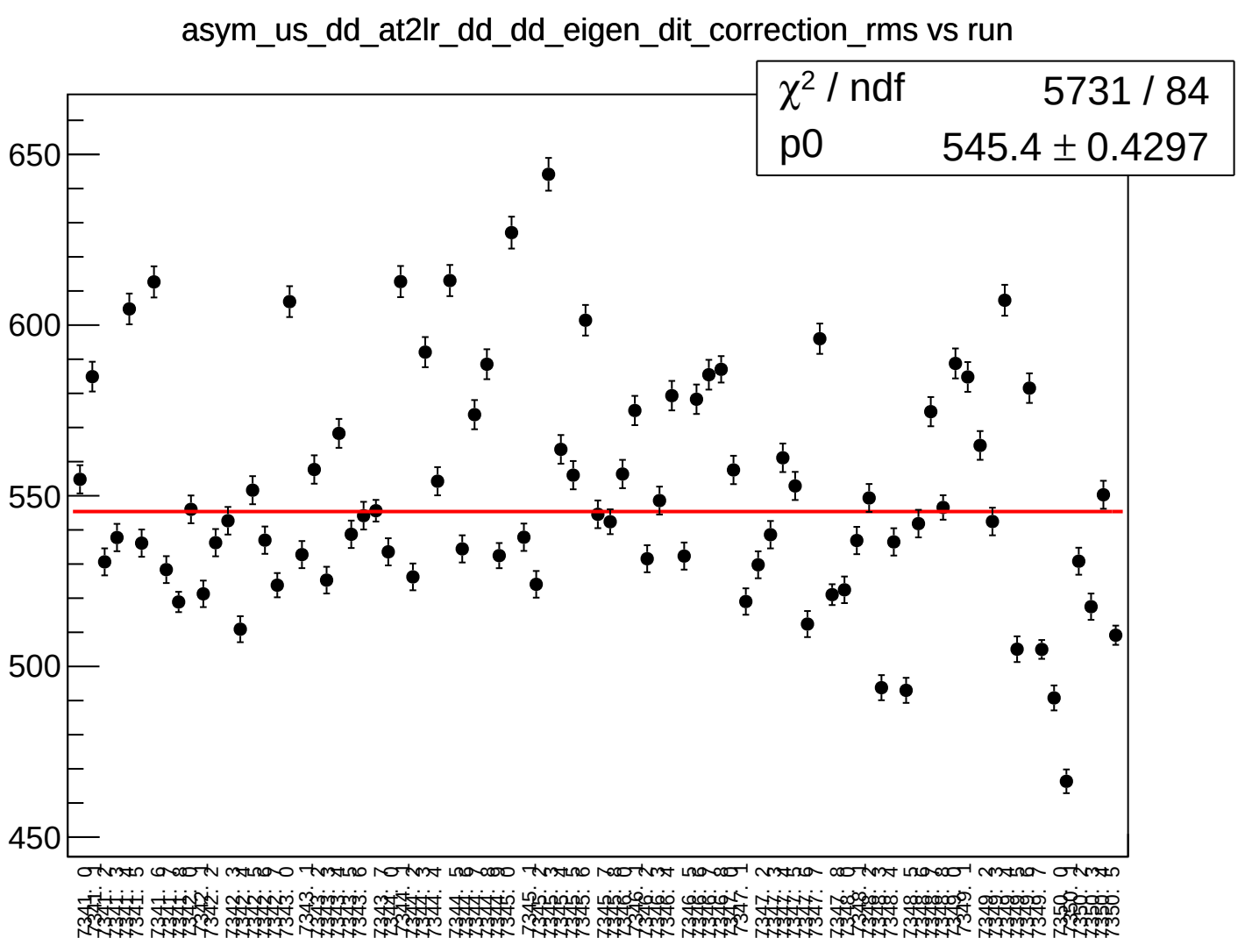

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 5731 / 84
p0 545.4 ± 0.4297
650
600
550
500
450

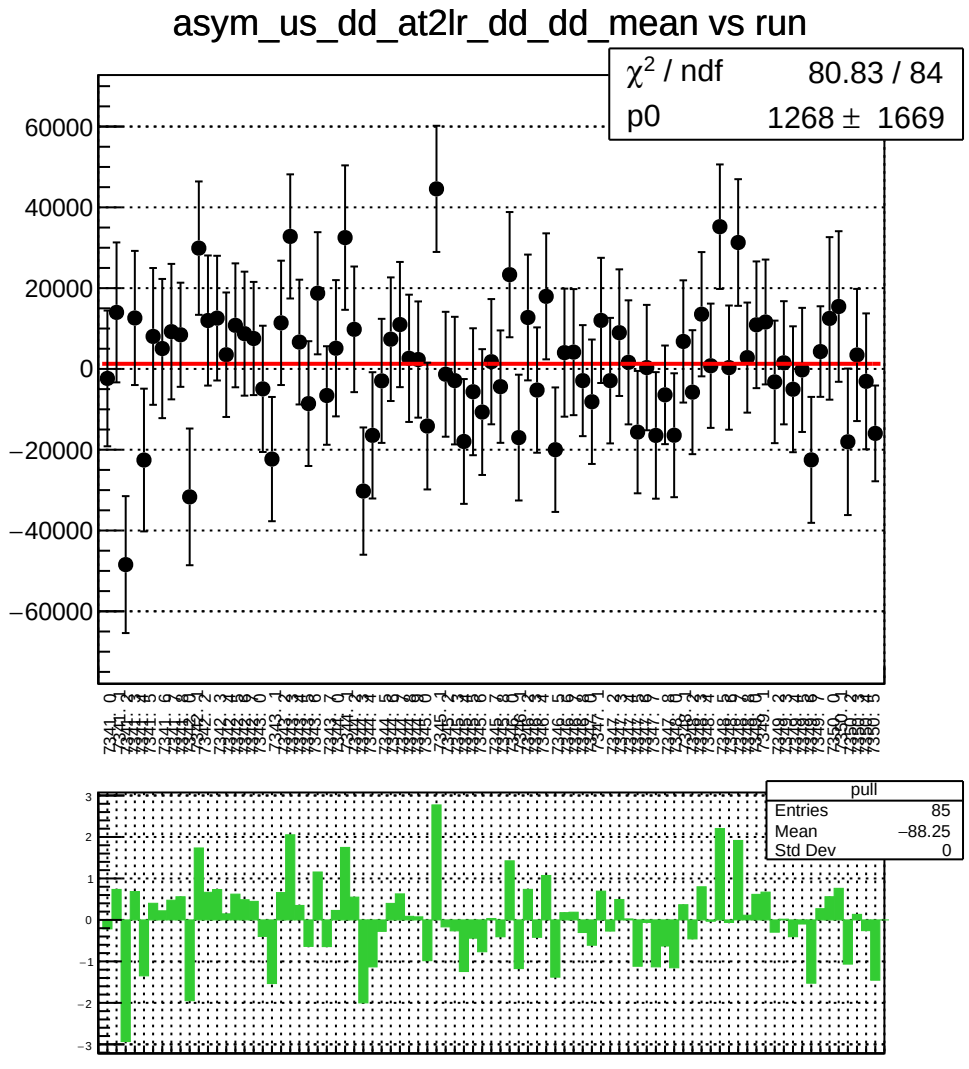

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.26 / 84
p0 1752 ± 1887
pull
Entries 85
Mean −103.3
Std Dev 0
pull1D
Entries 85
Mean 0.001813
Std Dev 1.03

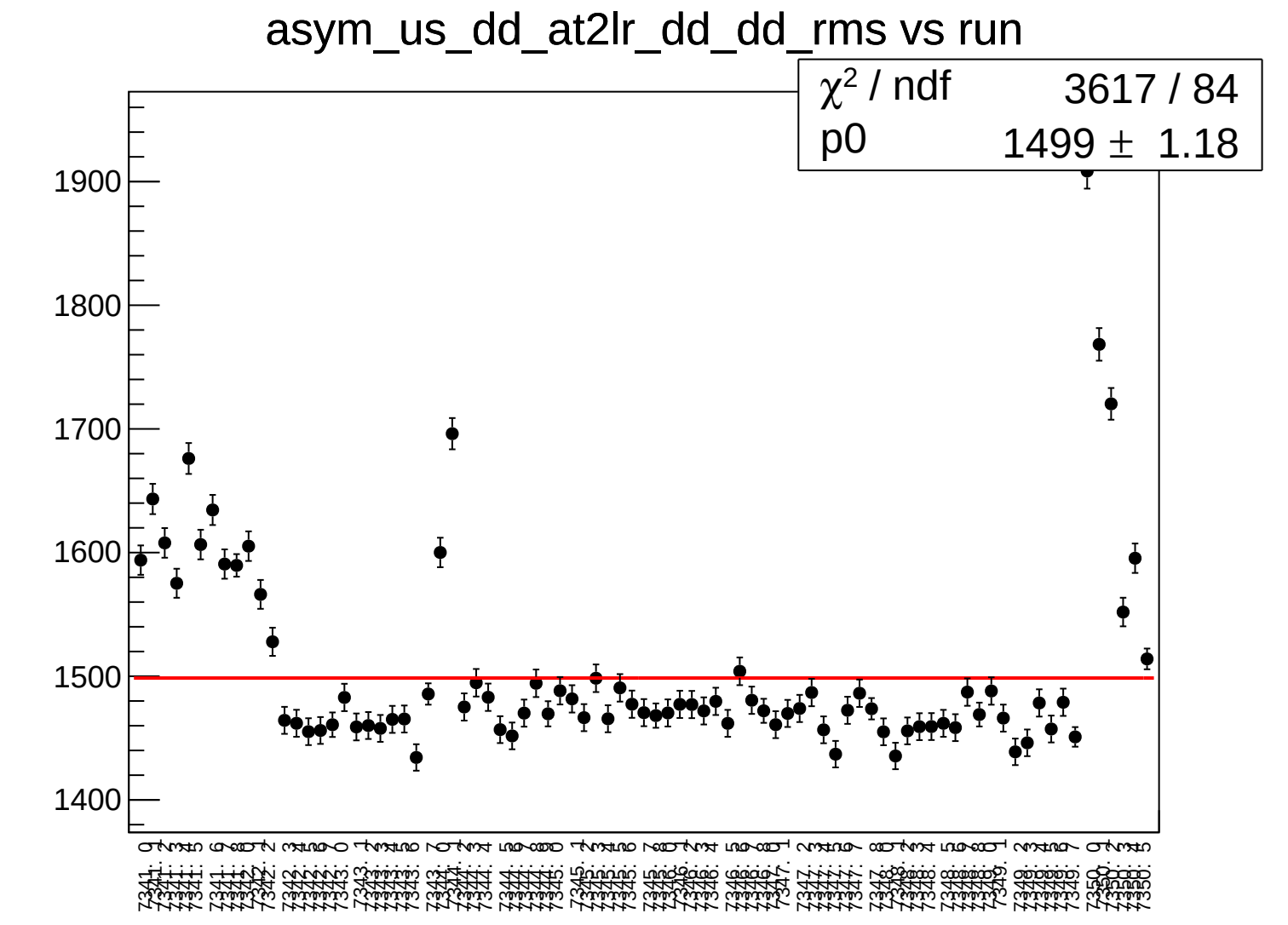

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 6040 / 84
p0 1693 ± 1.334
2100
2000
1900
1800
1700
1600

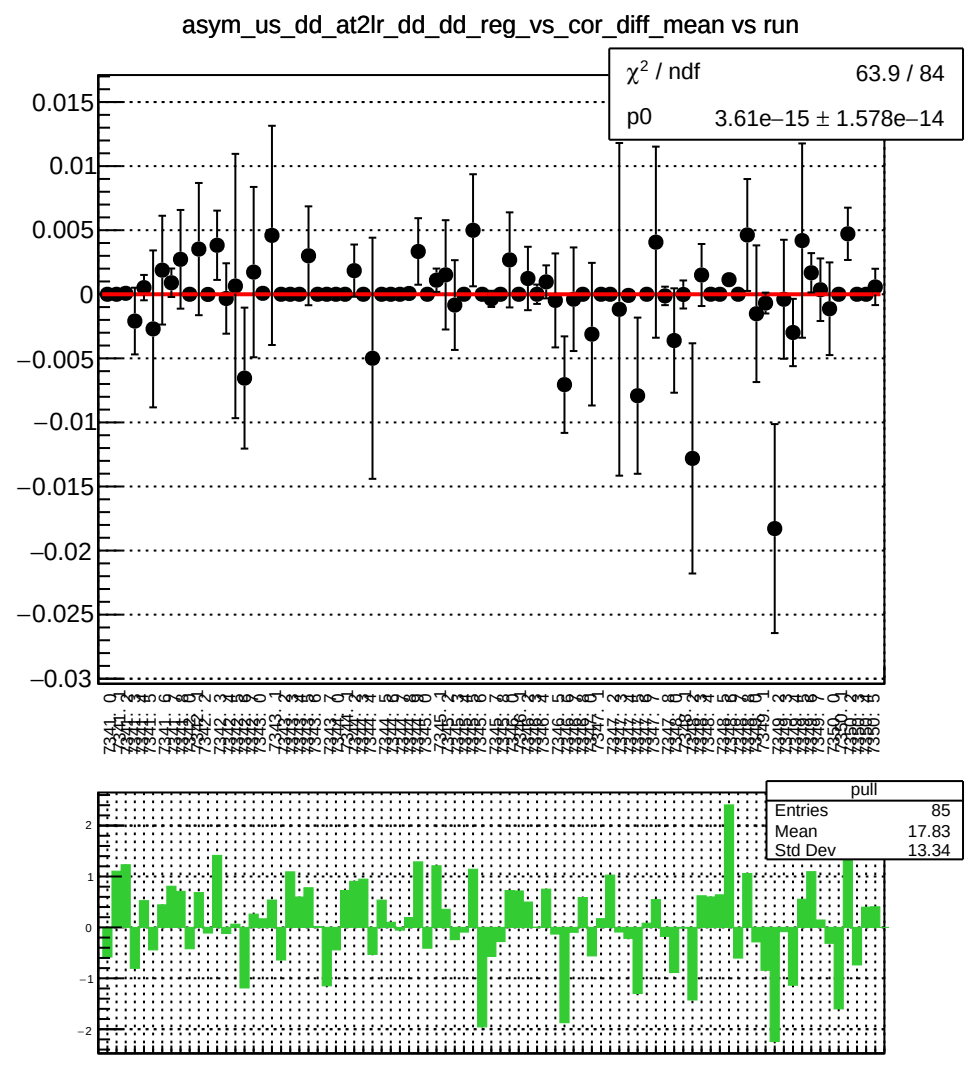

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.93 / 84
p0 473.2 ± 607.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean −95.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

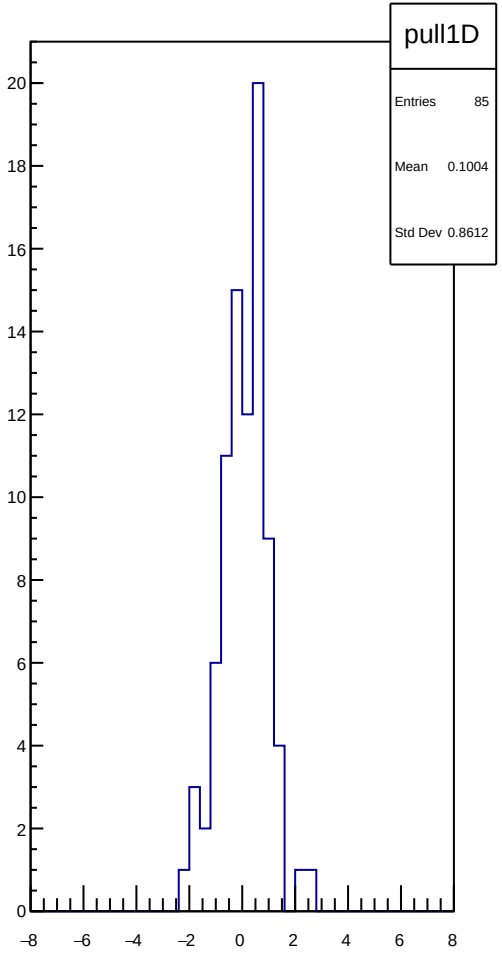

pull1D
Entries 85
Mean −0.01501
Std Dev 0.9574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

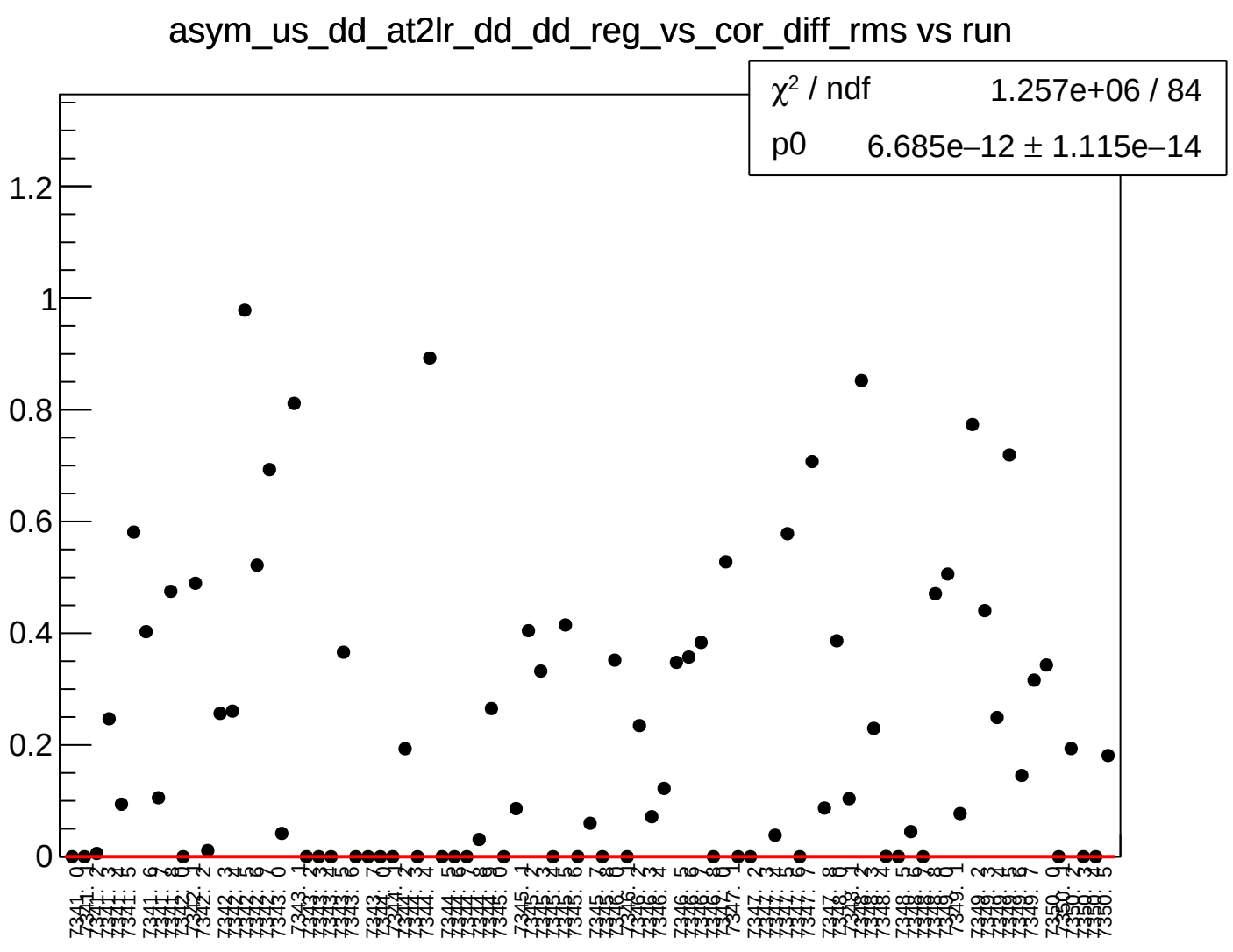

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5731 / 84
p0 545.4 ± 0.4297
650
600
550
500
450

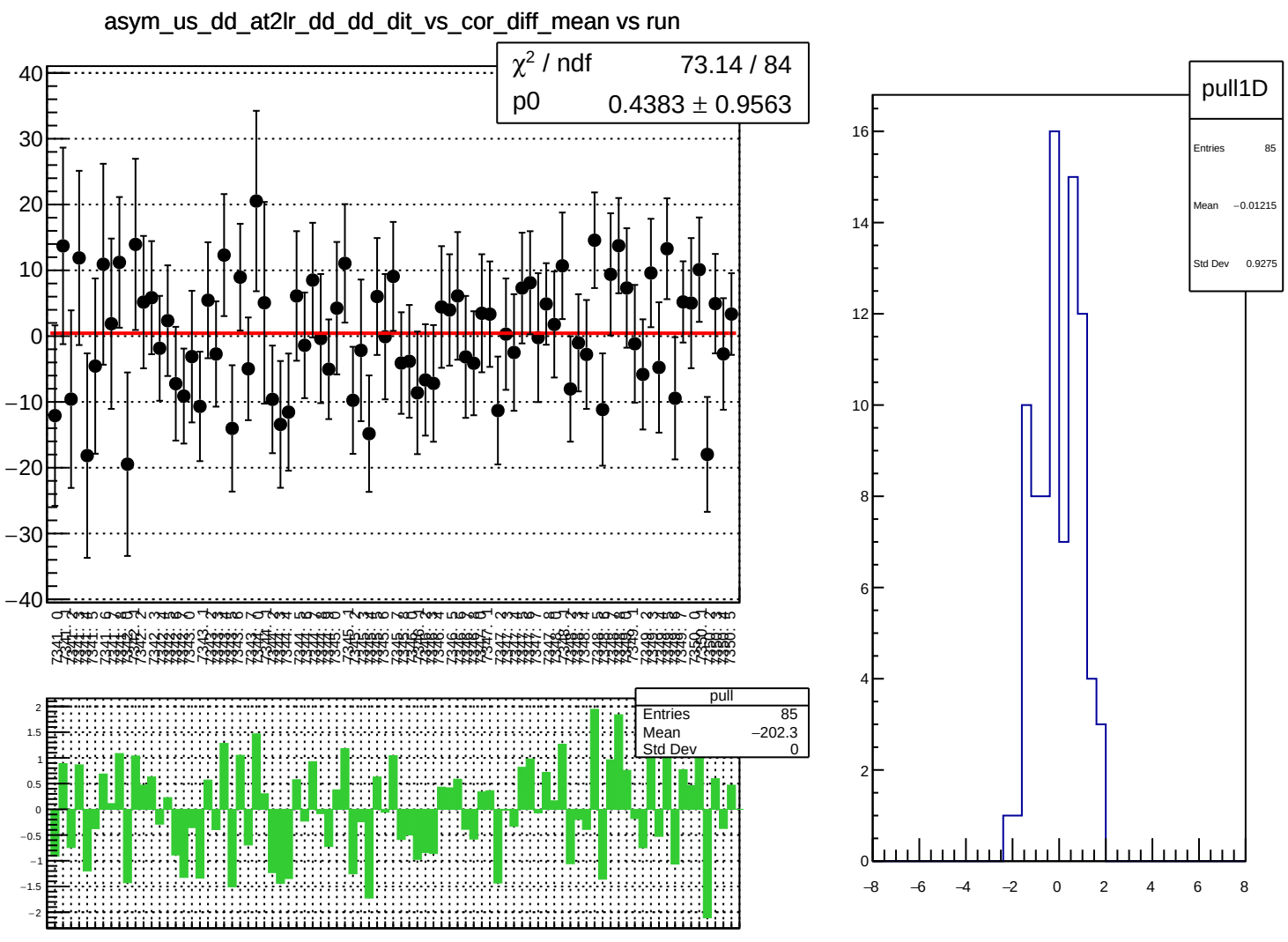

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 80.83 / 84
p0 1268 ± 1669
pull
Entries 85
Mean −88.25
Std Dev 0
pull1D
Entries 85
Mean 0.007444
Std Dev 0.9751

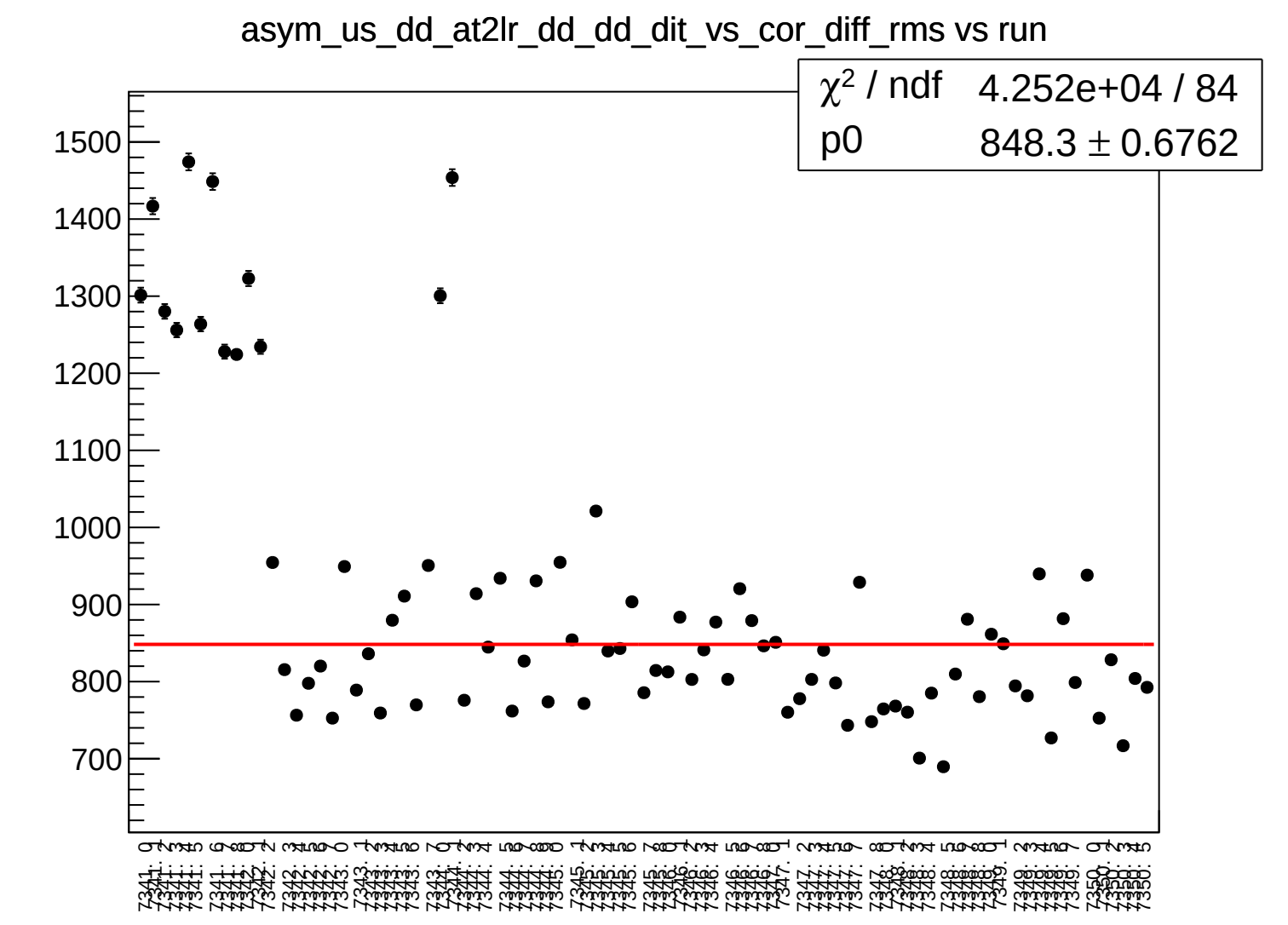

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3617 / 84
p0 1499 ± 1.18
1900
1800
1700
1600
1500
1400

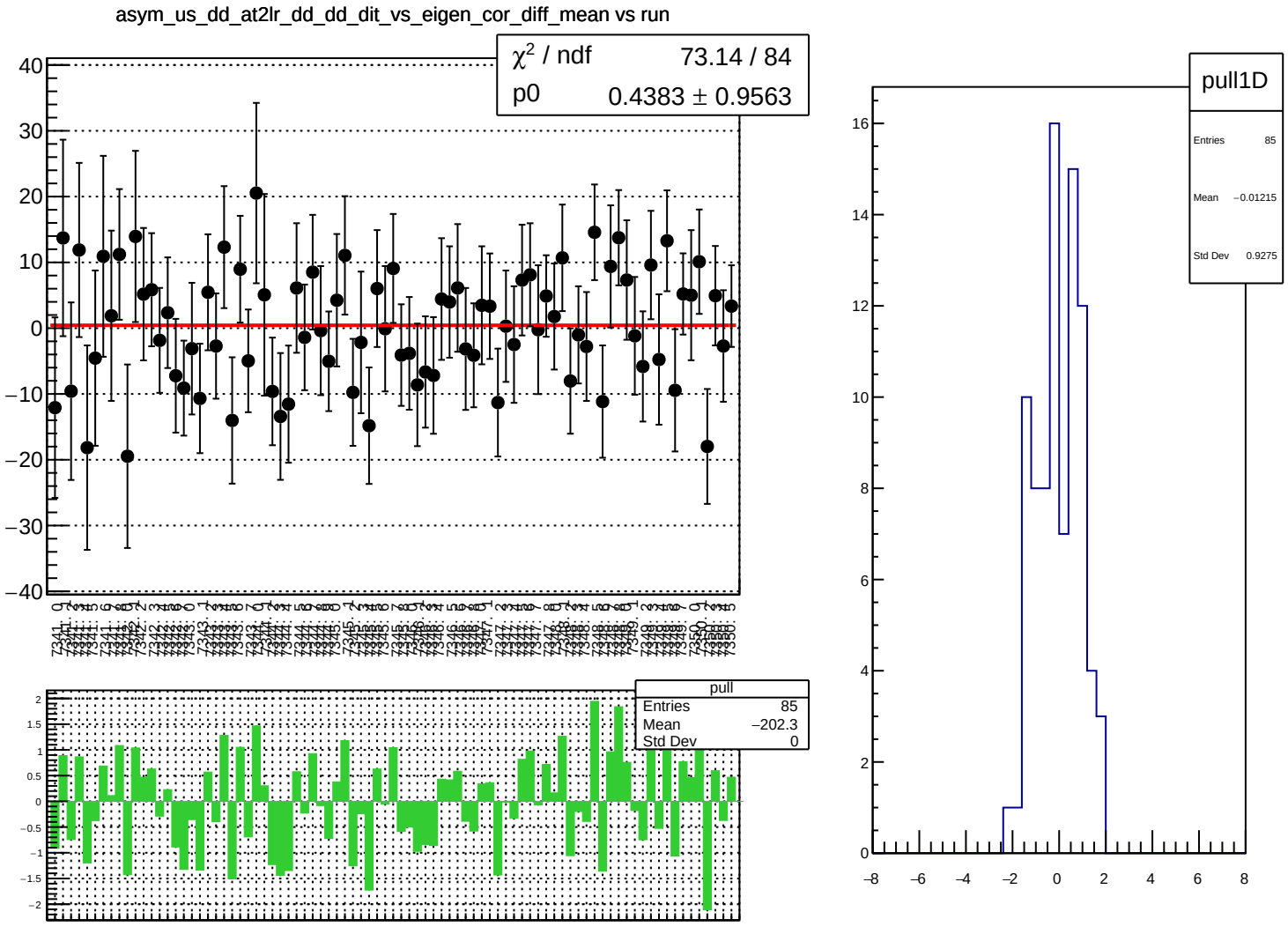

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 63.9 / 84
p0 3.61e−15 ± 1.578e−14
pull
Entries 85
Mean 17.83
Std Dev 13.34

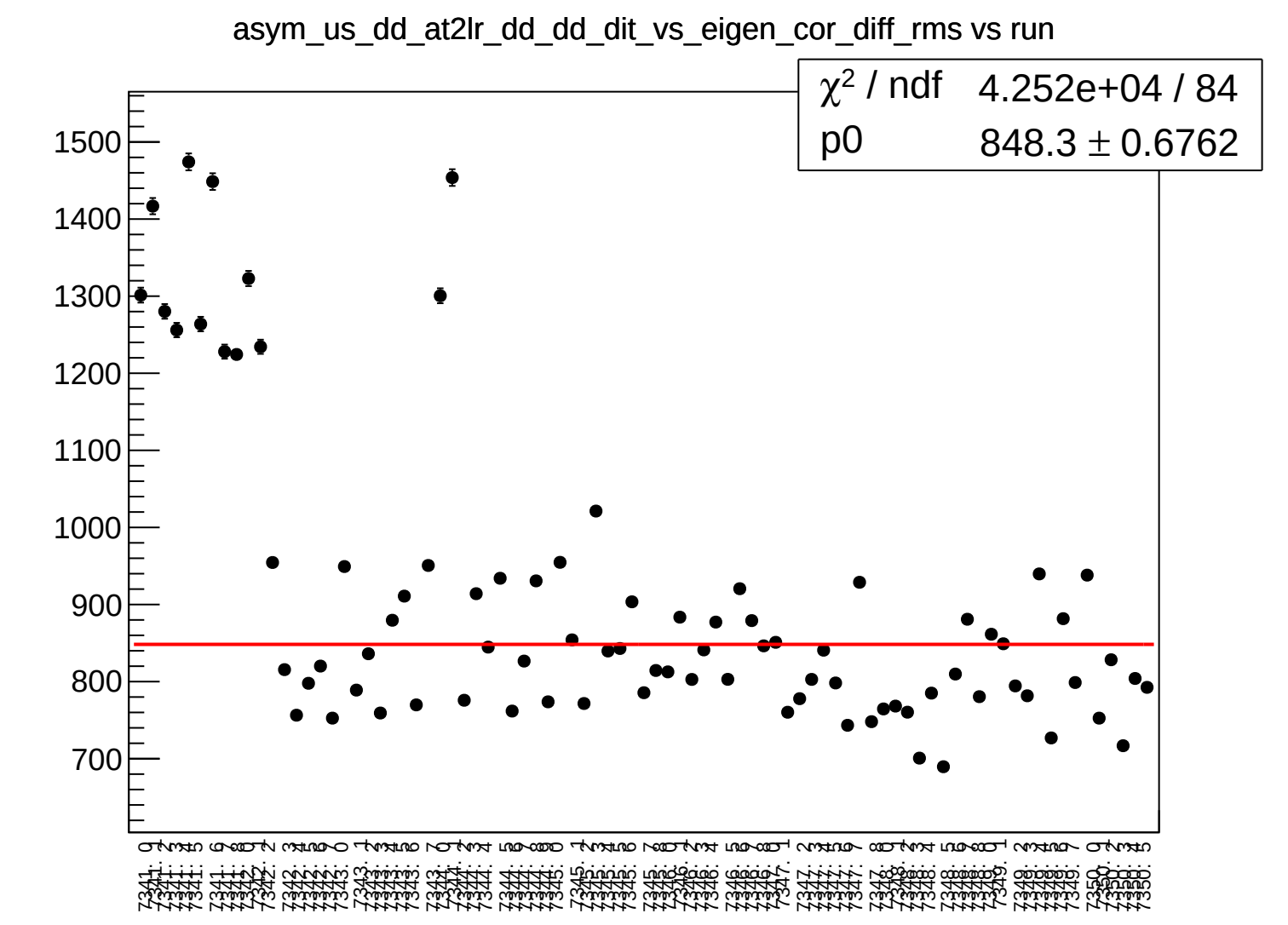

pull1D
Entries 85
Mean 0.1004
Std Dev 0.8612

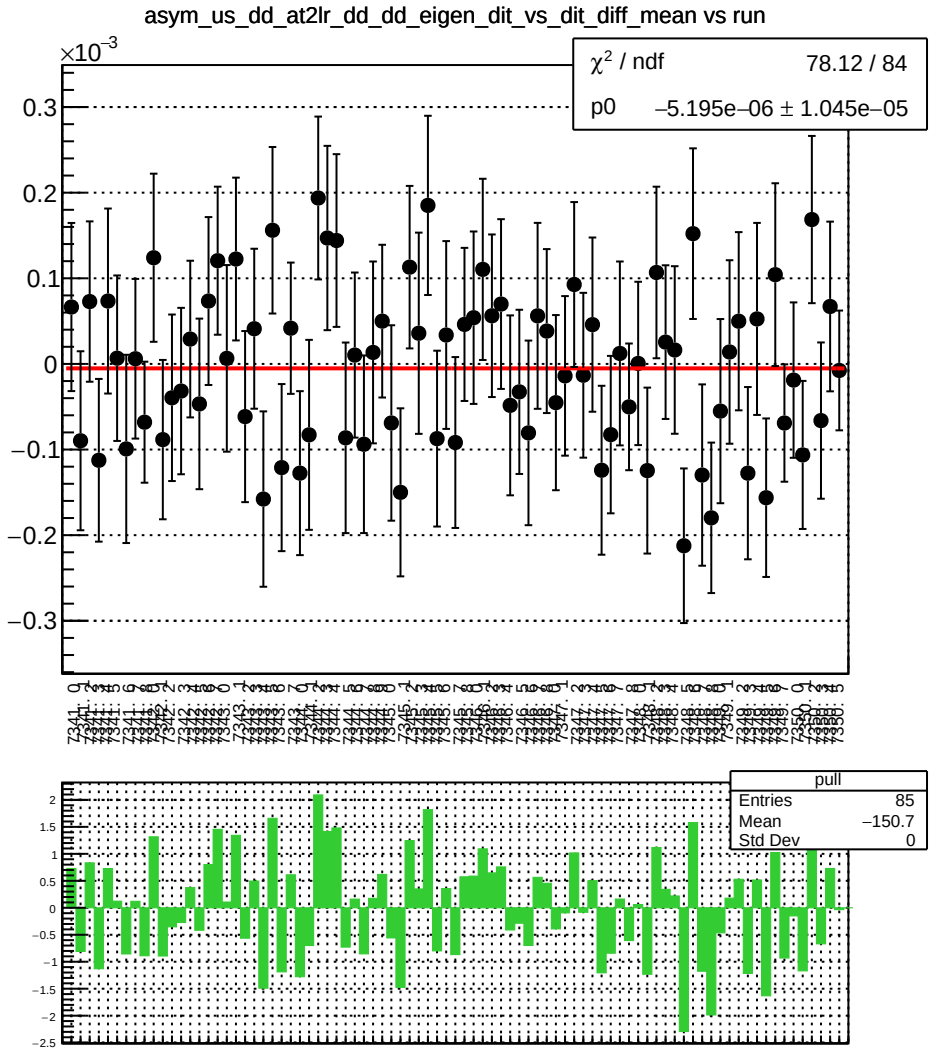

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.257e+06 / 84
p0 6.685e−12 ± 1.115e−14
1.2
1
0.8
0.6
0.4
0.2
0

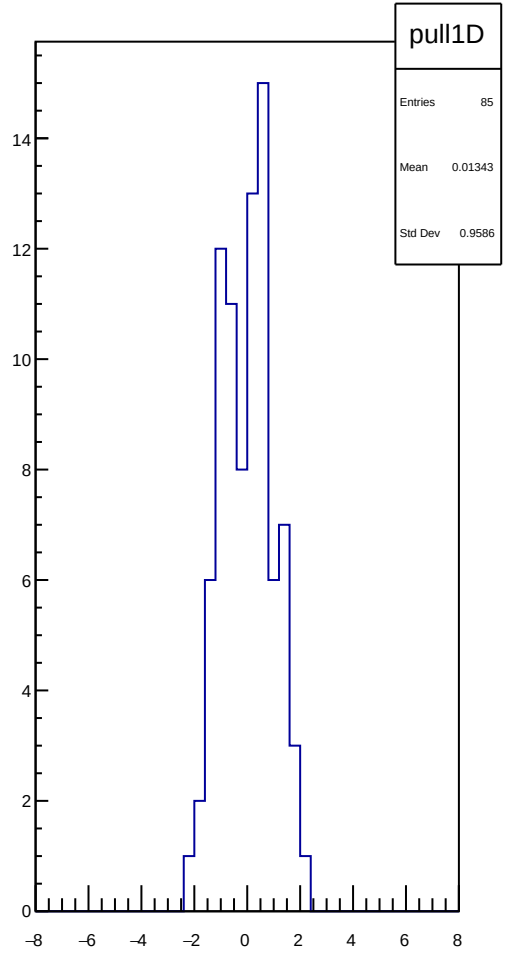

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.14 / 84
p0 0.4383 ± 0.9563
pull
Entries 85
Mean −202.3
Std Dev 0
pull1D
Entries 85
Mean −0.01215
Std Dev 0.9275

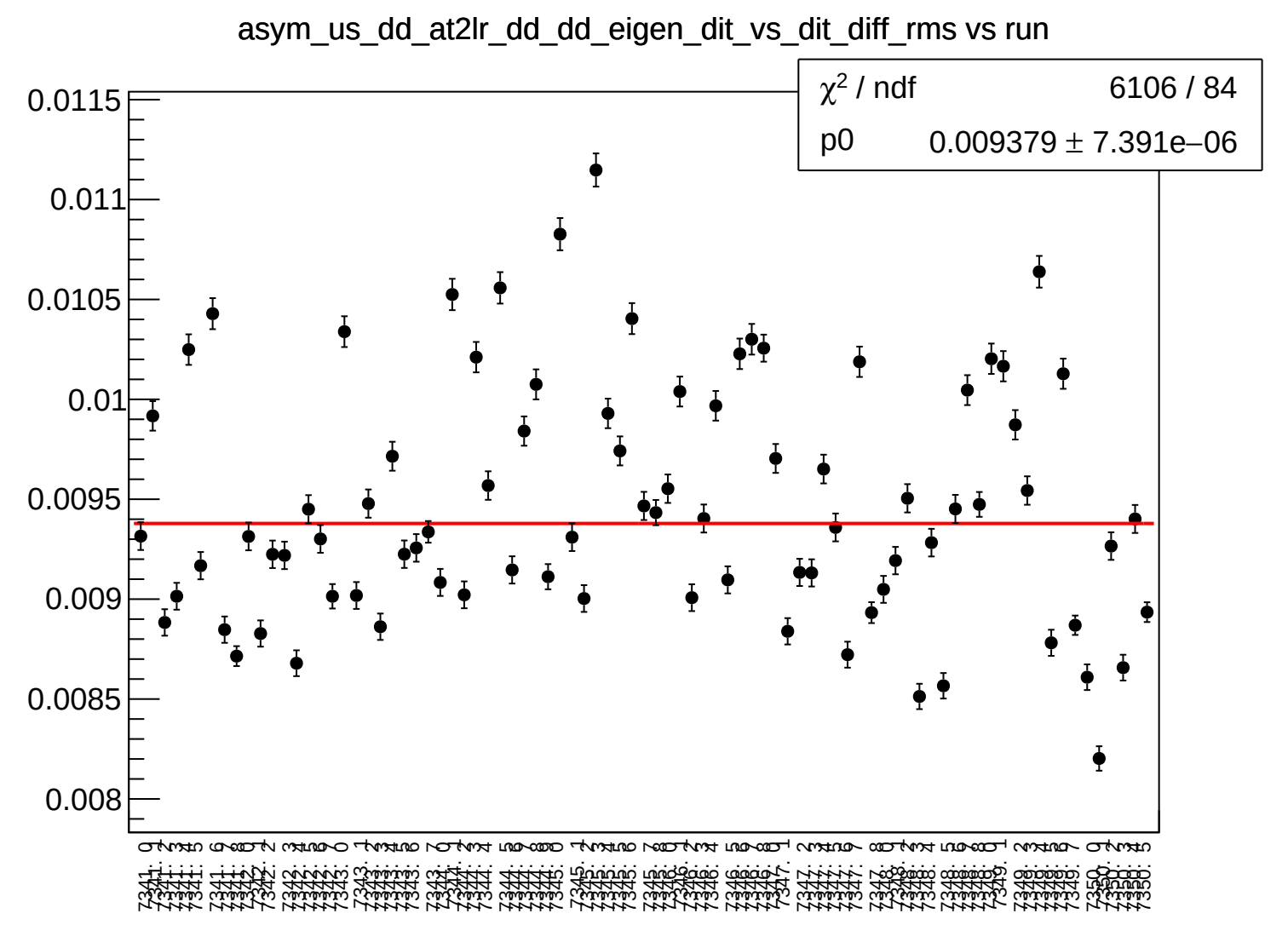

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.252e+04 / 84
p0 848.3 ± 0.6762
1500
1400
1300
1200
1100
1000
900
800
700

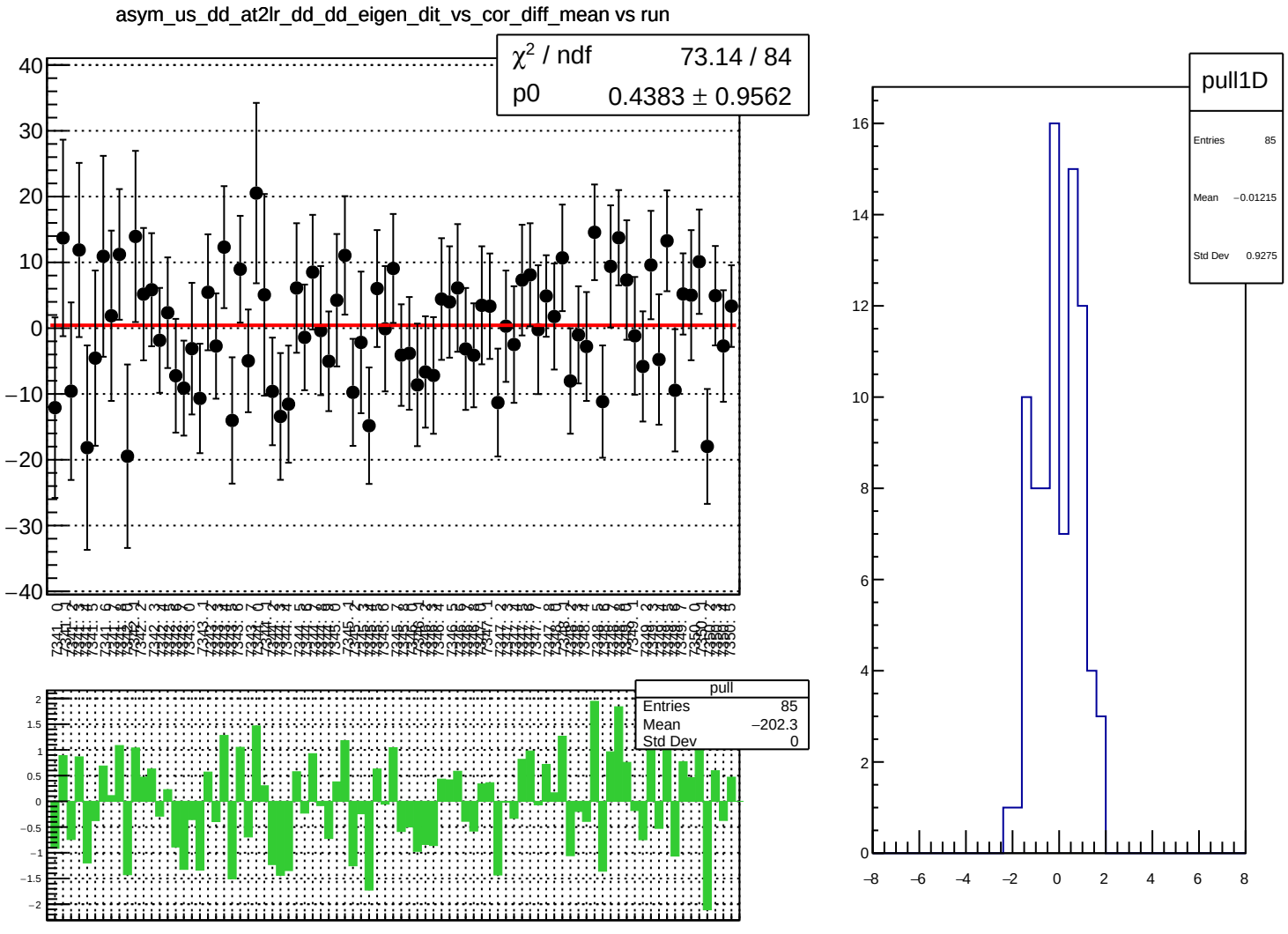

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.14 / 84
p0 0.4383 ± 0.9563
pull
Entries 85
Mean −202.3
Std Dev 0
pull1D
Entries 85
Mean −0.01215
Std Dev 0.9275

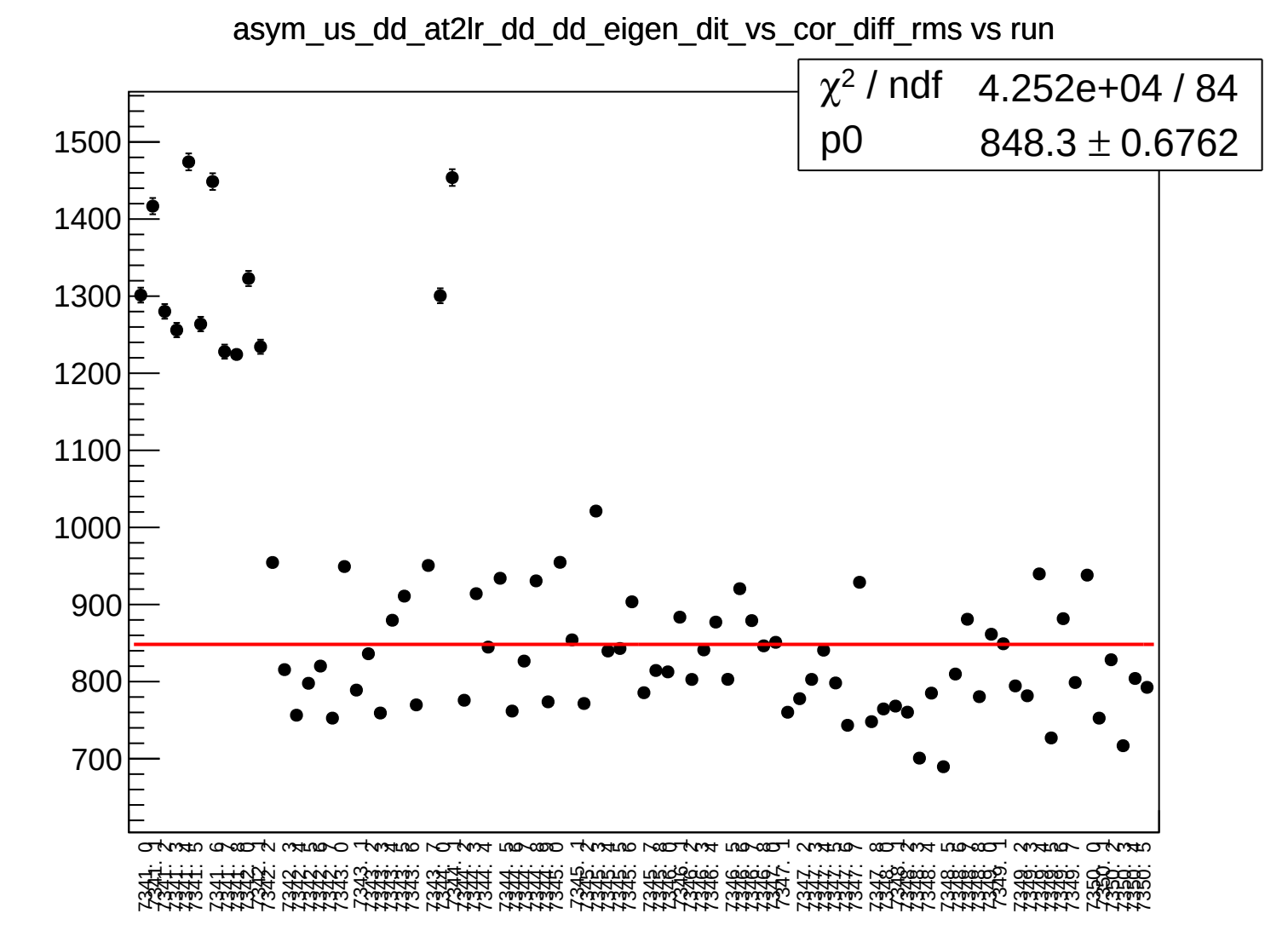

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.252e+04 / 84
p0 848.3 ± 0.6762
1500
1400
1300
1200
1100
1000
900
800
700

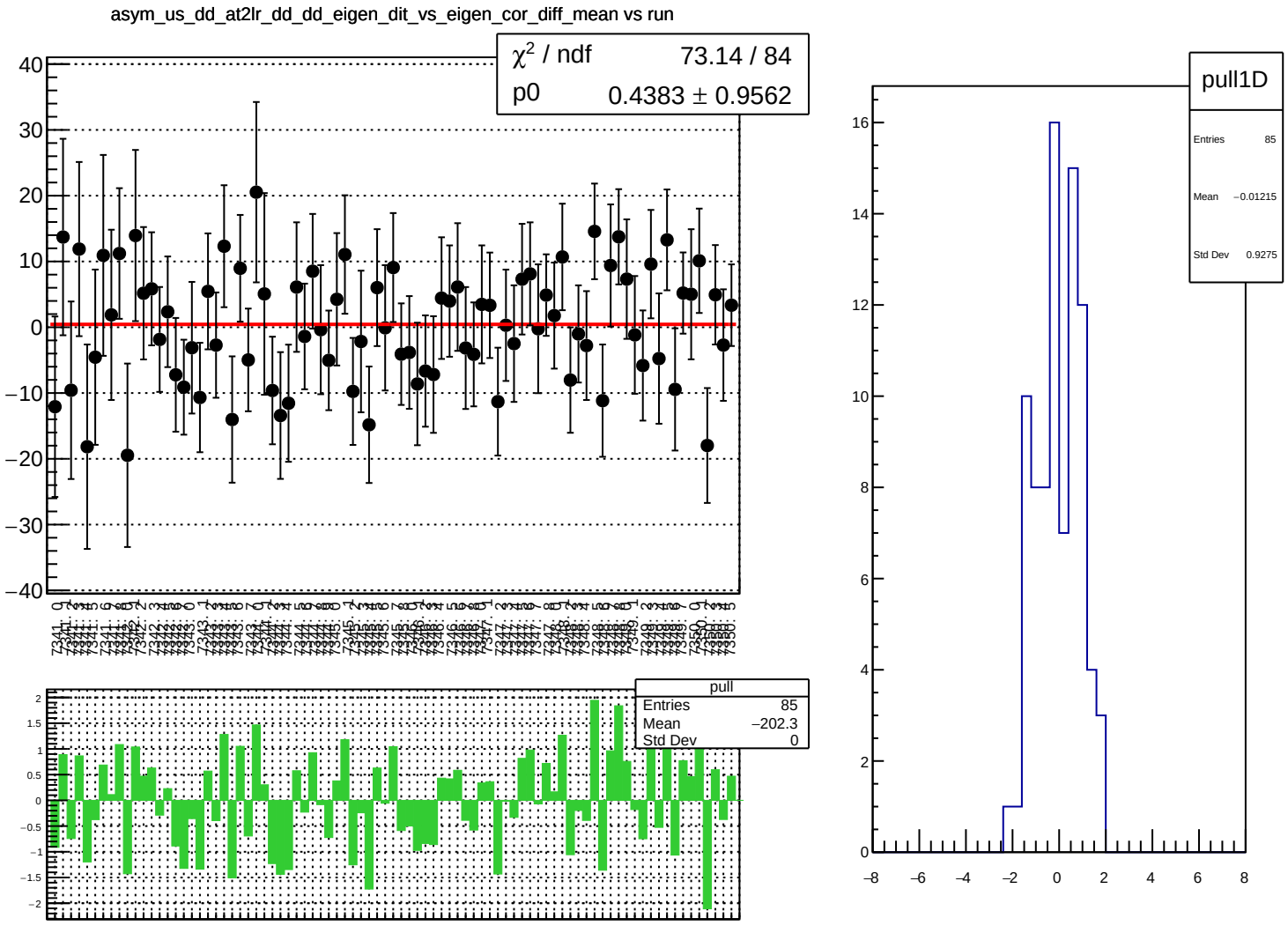

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 78.12 / 84
p0 −5.195e−06 ± 1.045e−05
pull
Entries 85
Mean −150.7
Std Dev 0

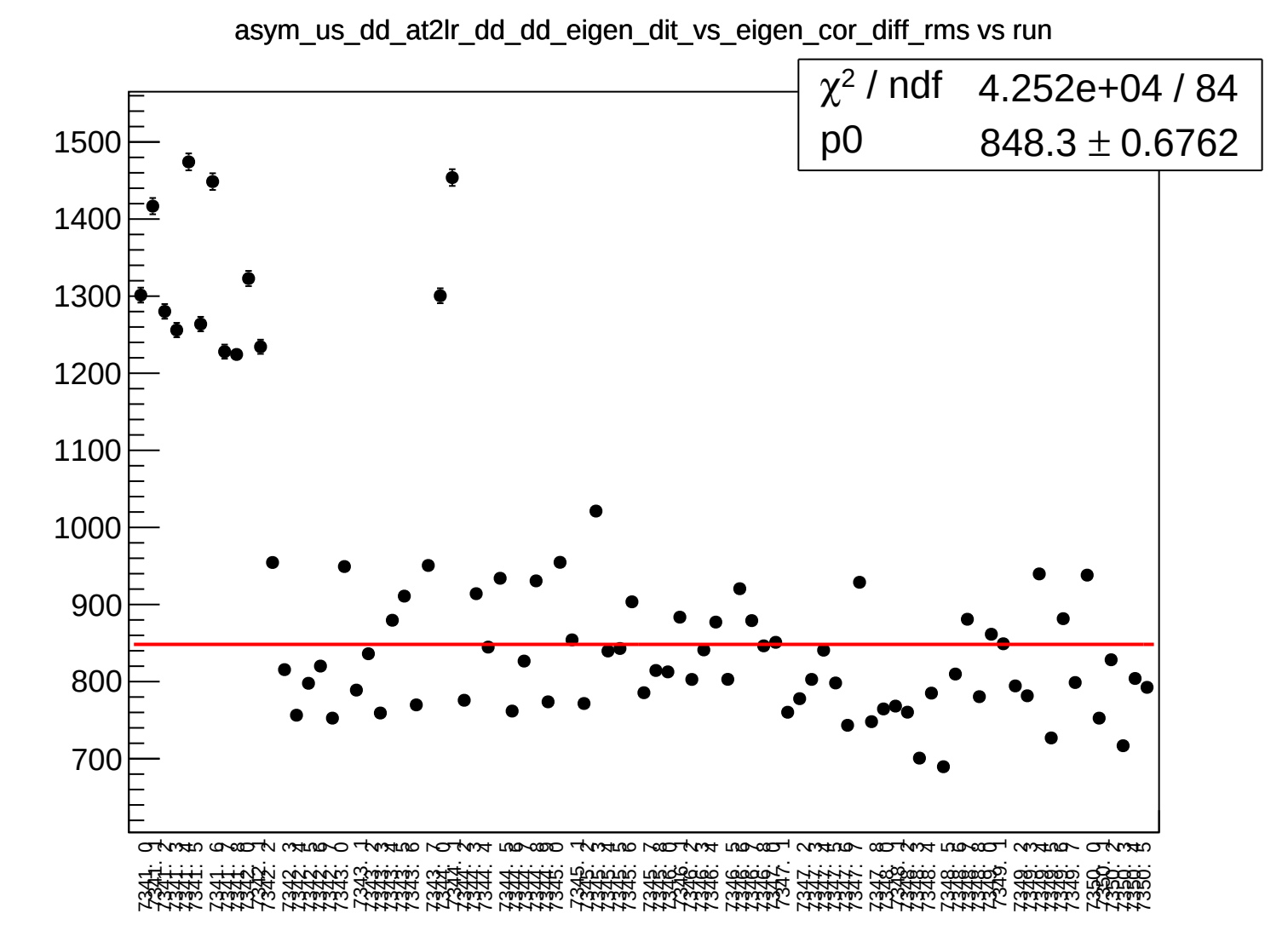

pull1D
Entries 85
Mean 0.01343
Std Dev 0.9586

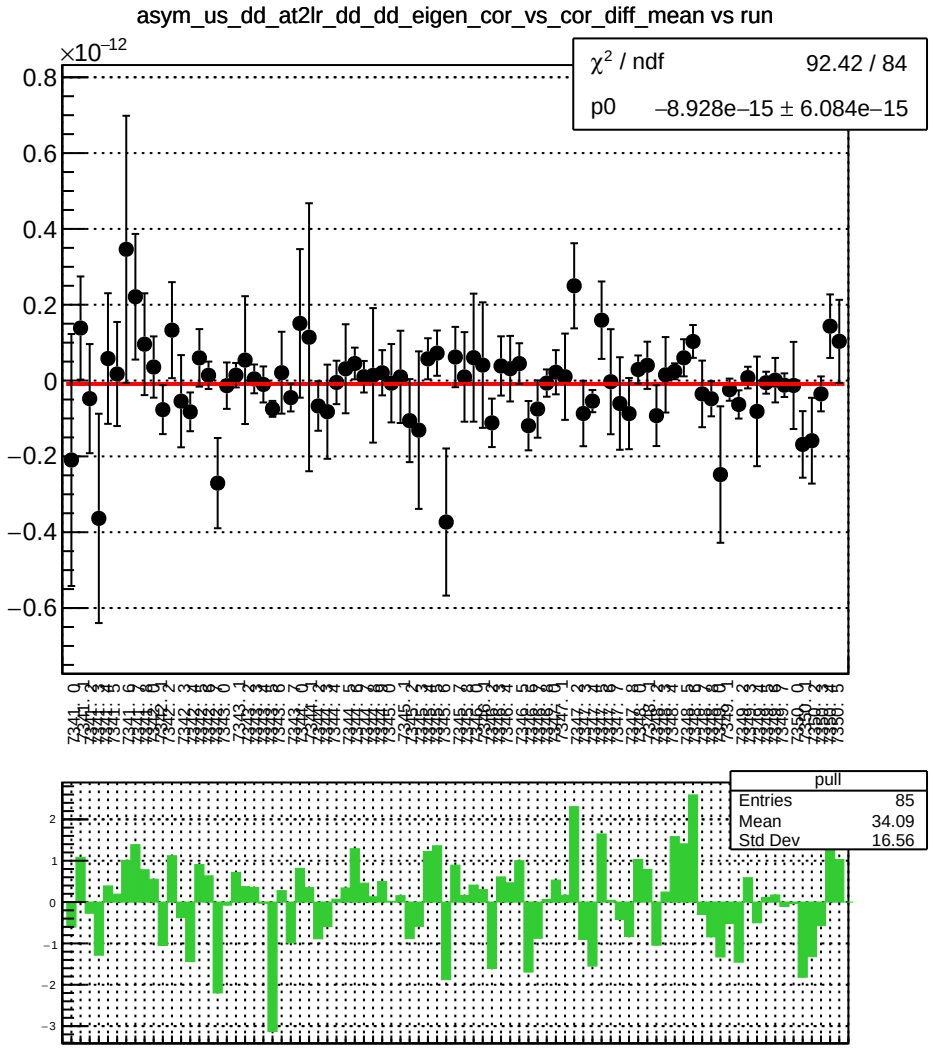

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6106 / 84
p0 0.009379 ± 7.391e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

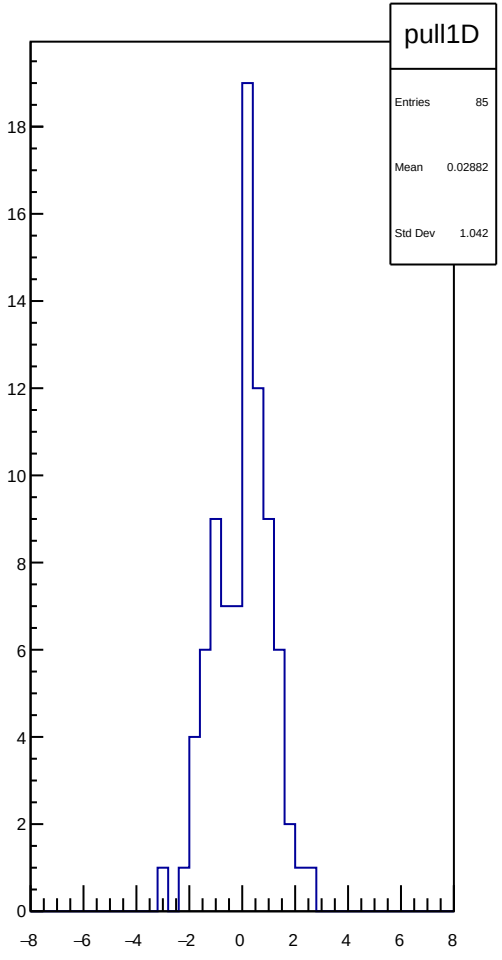

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.14 / 84
p0 0.4383 ± 0.9562
pull
Entries 85
Mean −202.3
Std Dev 0
pull1D
Entries 85
Mean −0.01215
Std Dev 0.9275

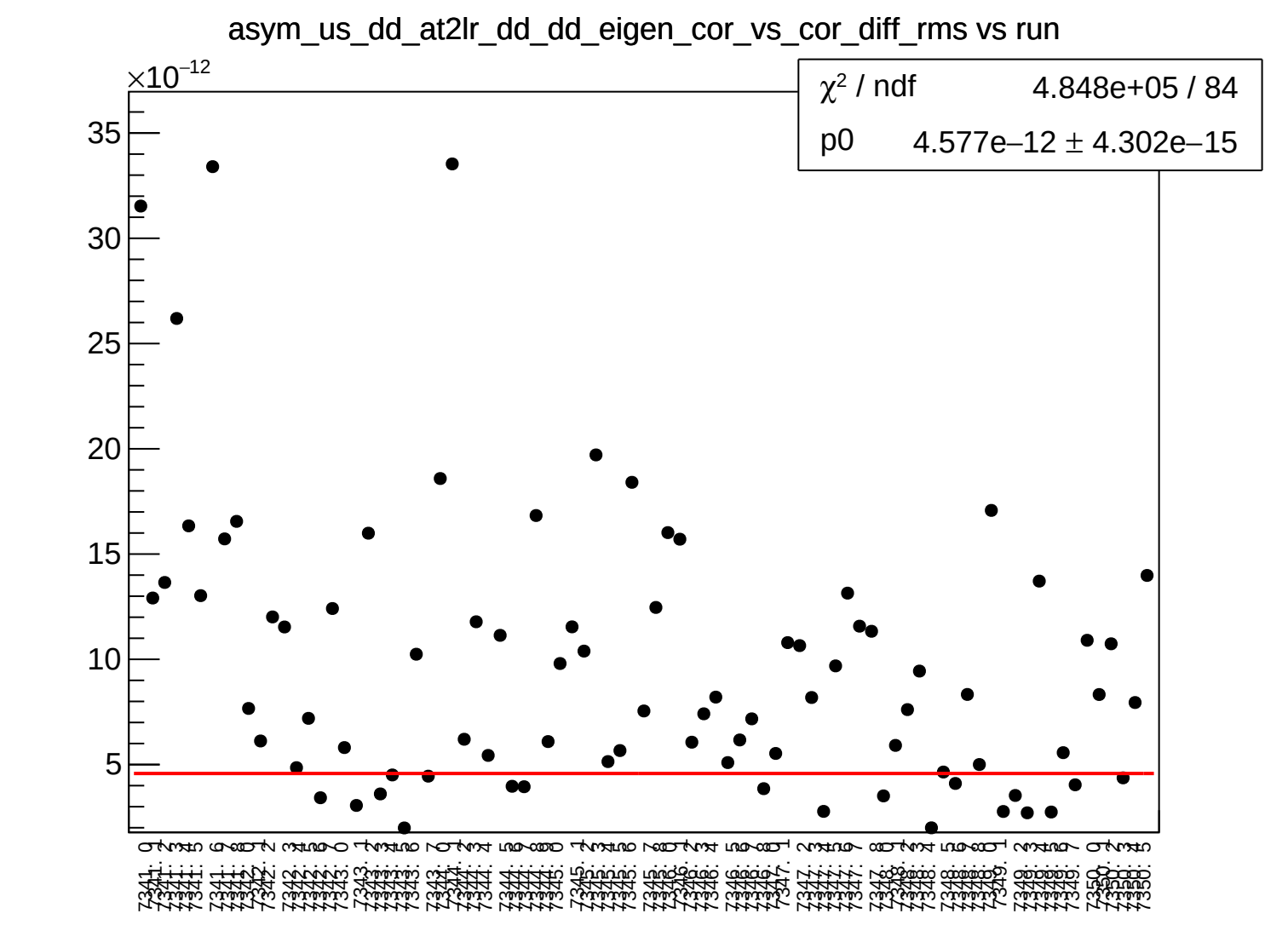

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.252e+04 / 84
p0 848.3 ± 0.6762
1500
1400
1300
1200
1100
1000
900
800
700

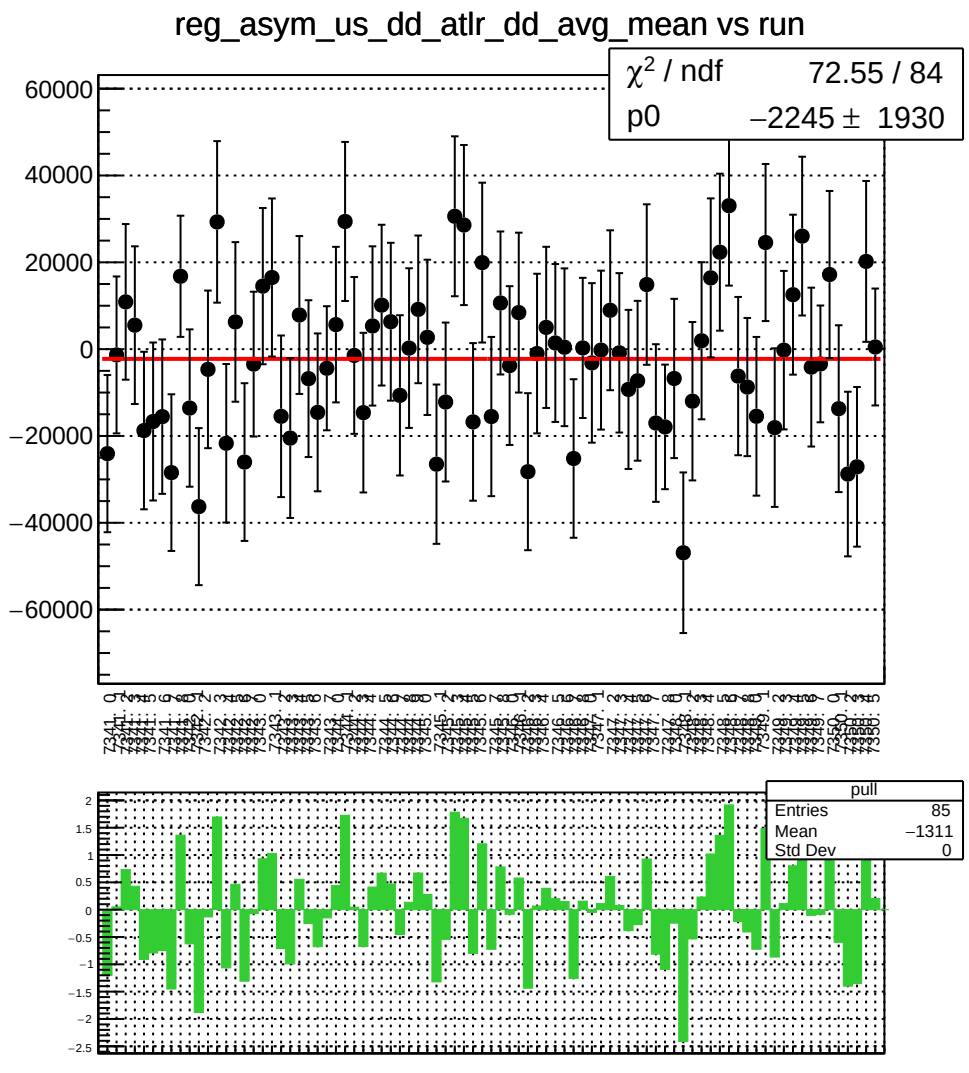

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.14 / 84
p0 0.4383 ± 0.9562
pull
Entries 85
Mean −202.3
Std Dev 0
pull1D
Entries 85
Mean −0.01215
Std Dev 0.9275

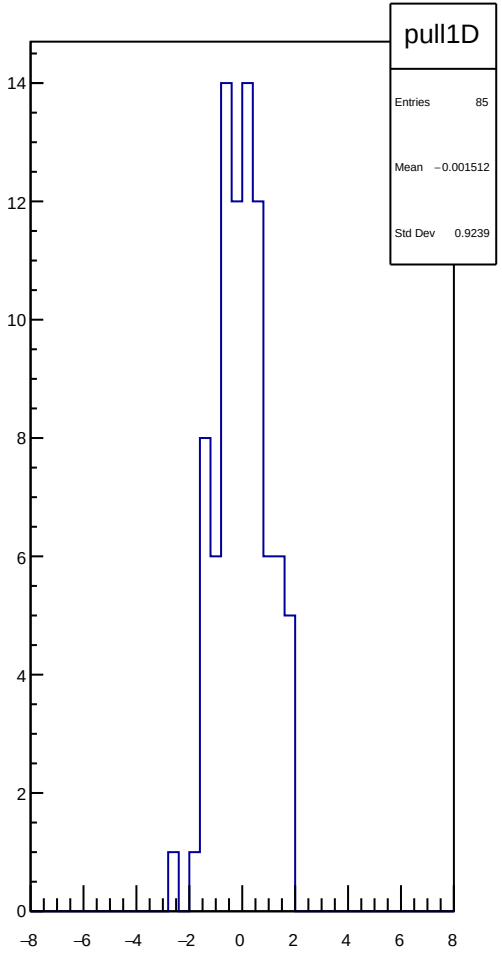

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.252e+04 / 84
p0 848.3 ± 0.6762
1500
1400
1300
1200
1100
1000
900
800
700

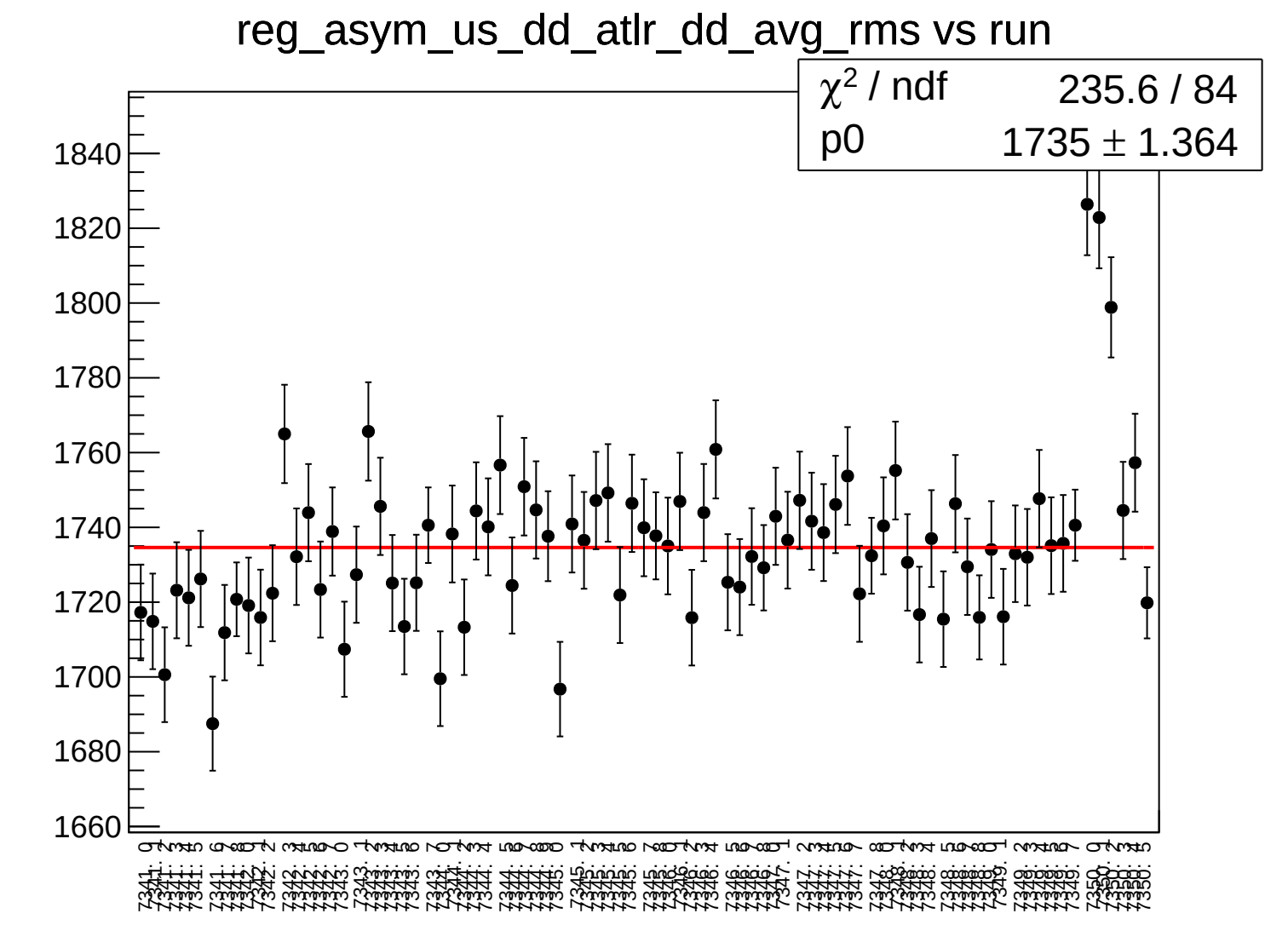

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.42 / 84
p0 −8.928e−15 ± 6.084e−15
pull
Entries 85
Mean 34.09
Std Dev 16.56

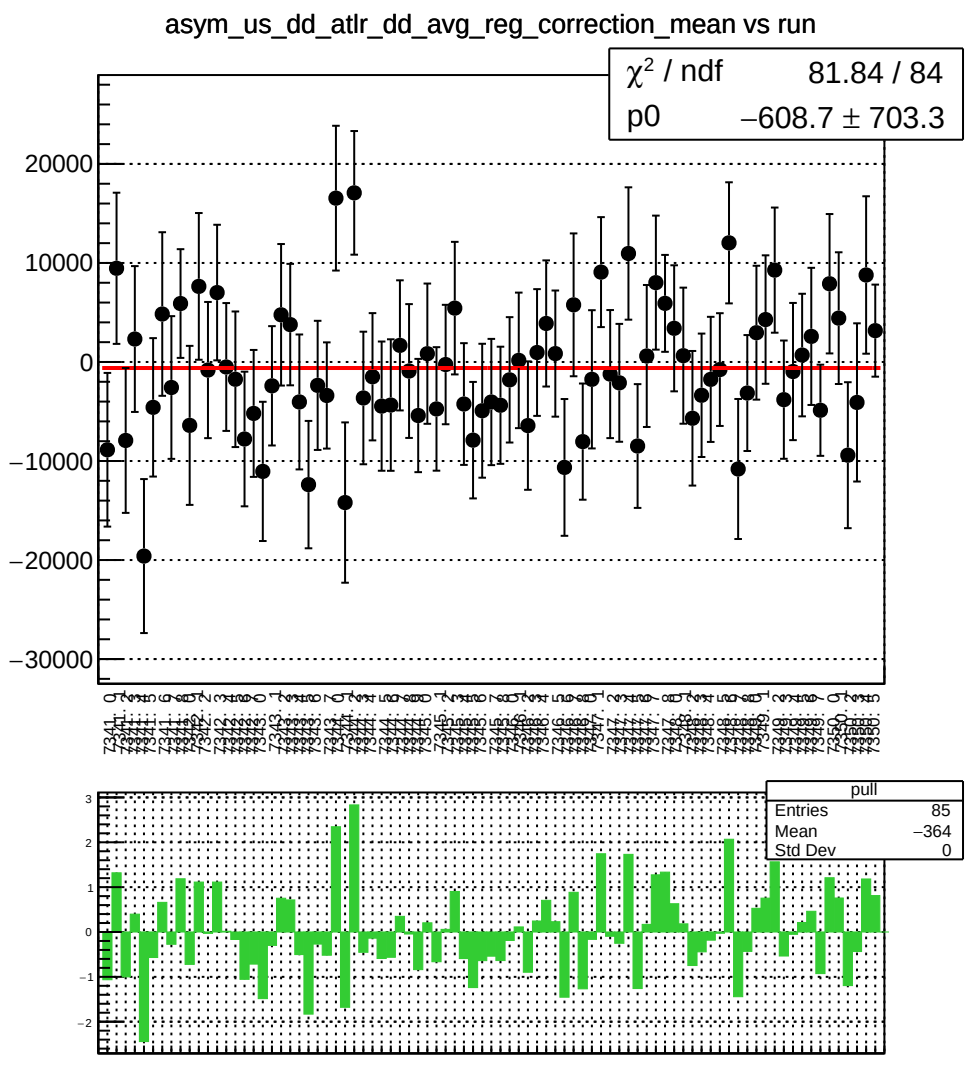

pull1D
Entries 85
Mean 0.02882
Std Dev 1.042

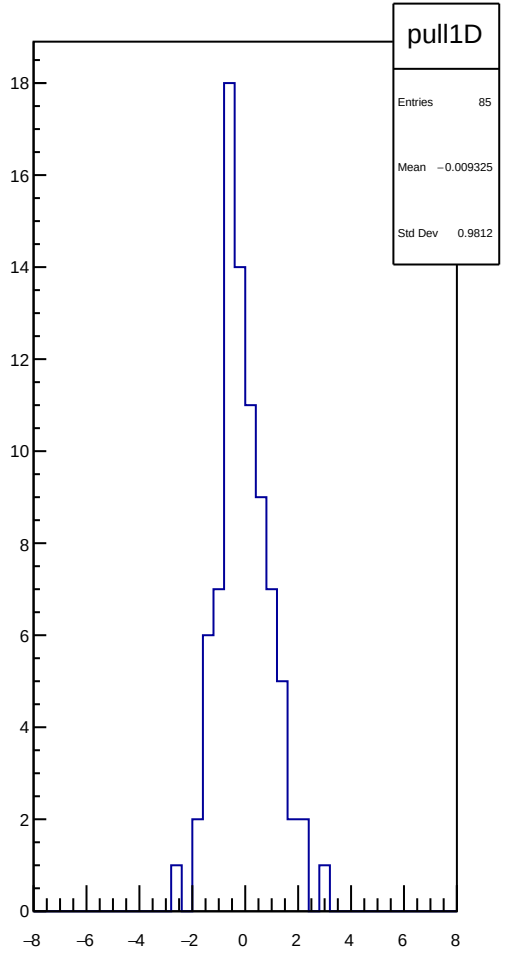

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.848e+05 / 84
p0 4.577e−12 ± 4.302e−15
35
30
25
20
15
10
5

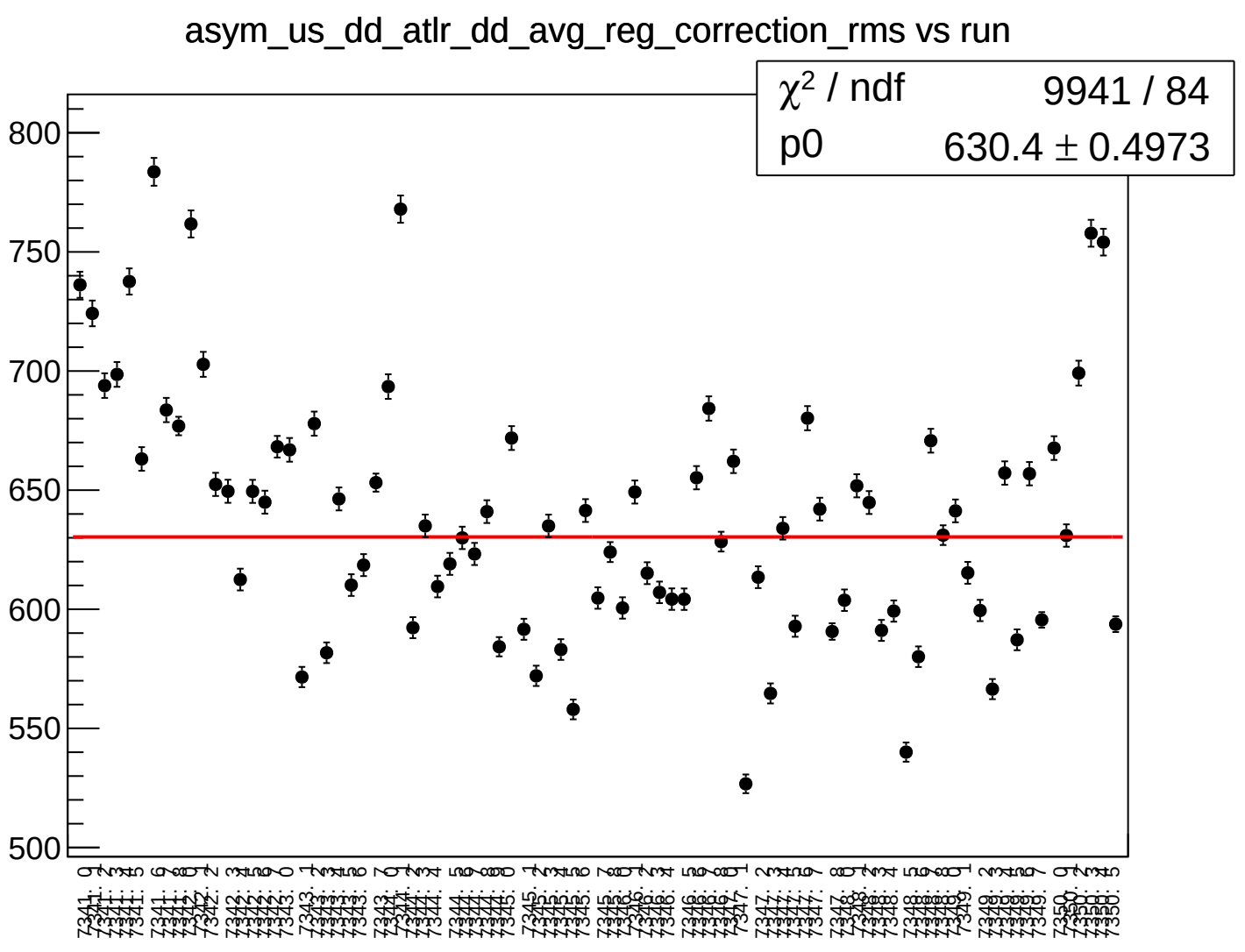

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 72.55 / 84
p0 −2245 ± 1930
pull
Entries 85
Mean −1311
Std Dev 0

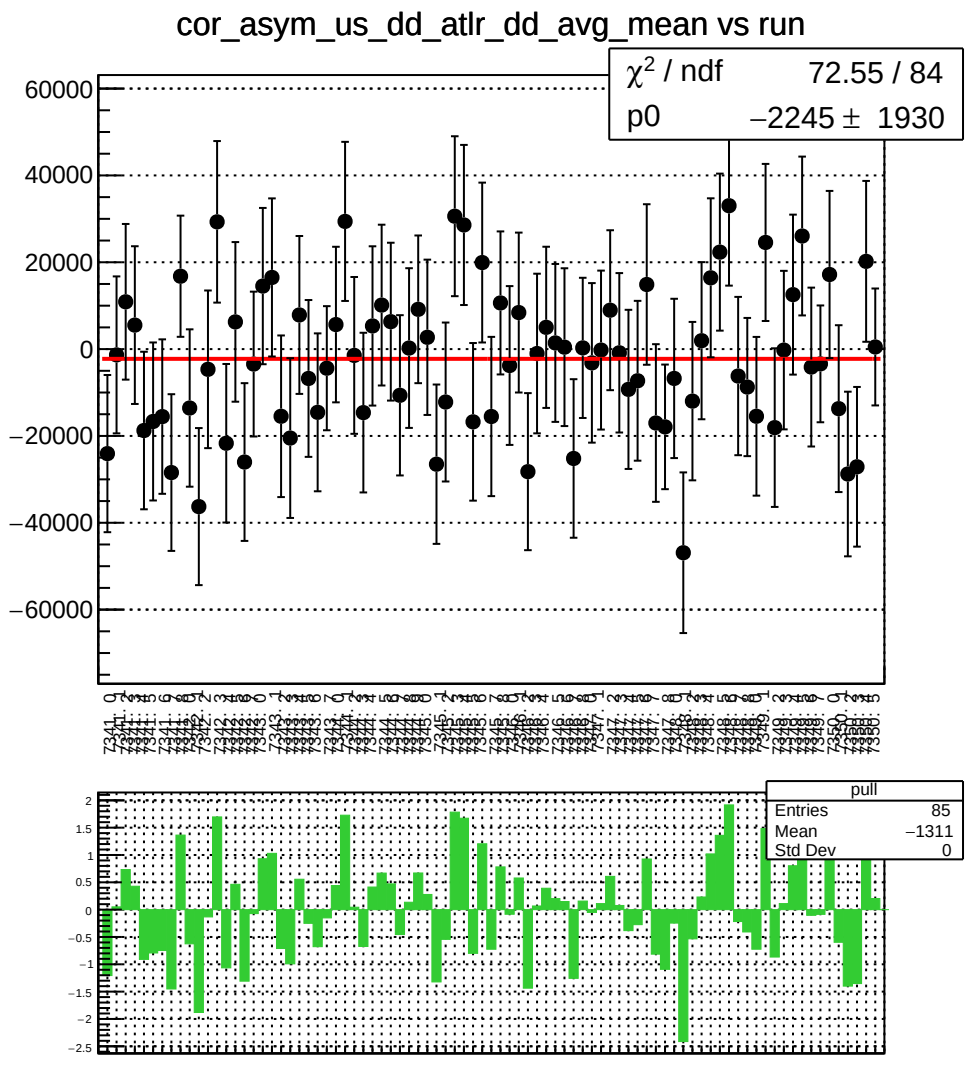

pull1D
Entries 85
Mean −0.001512
Std Dev 0.9239

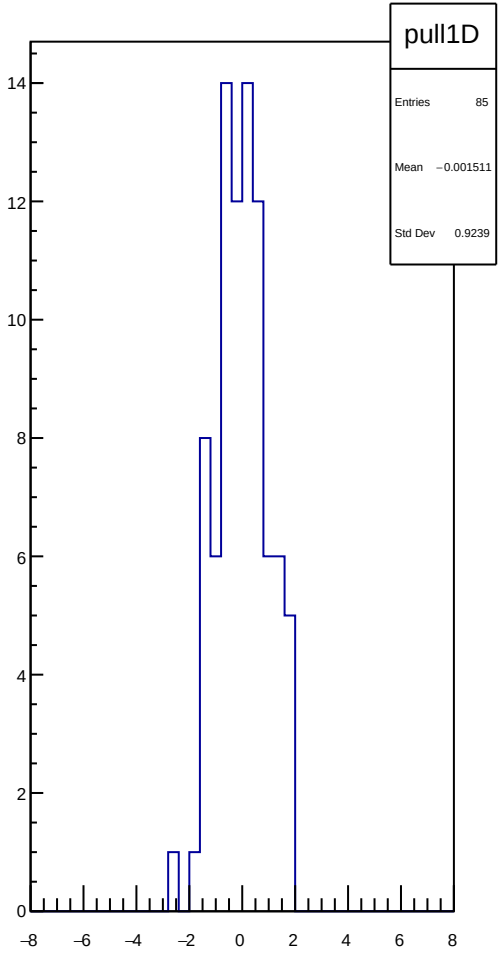

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 235.6 / 84
p0 1735 ± 1.364
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

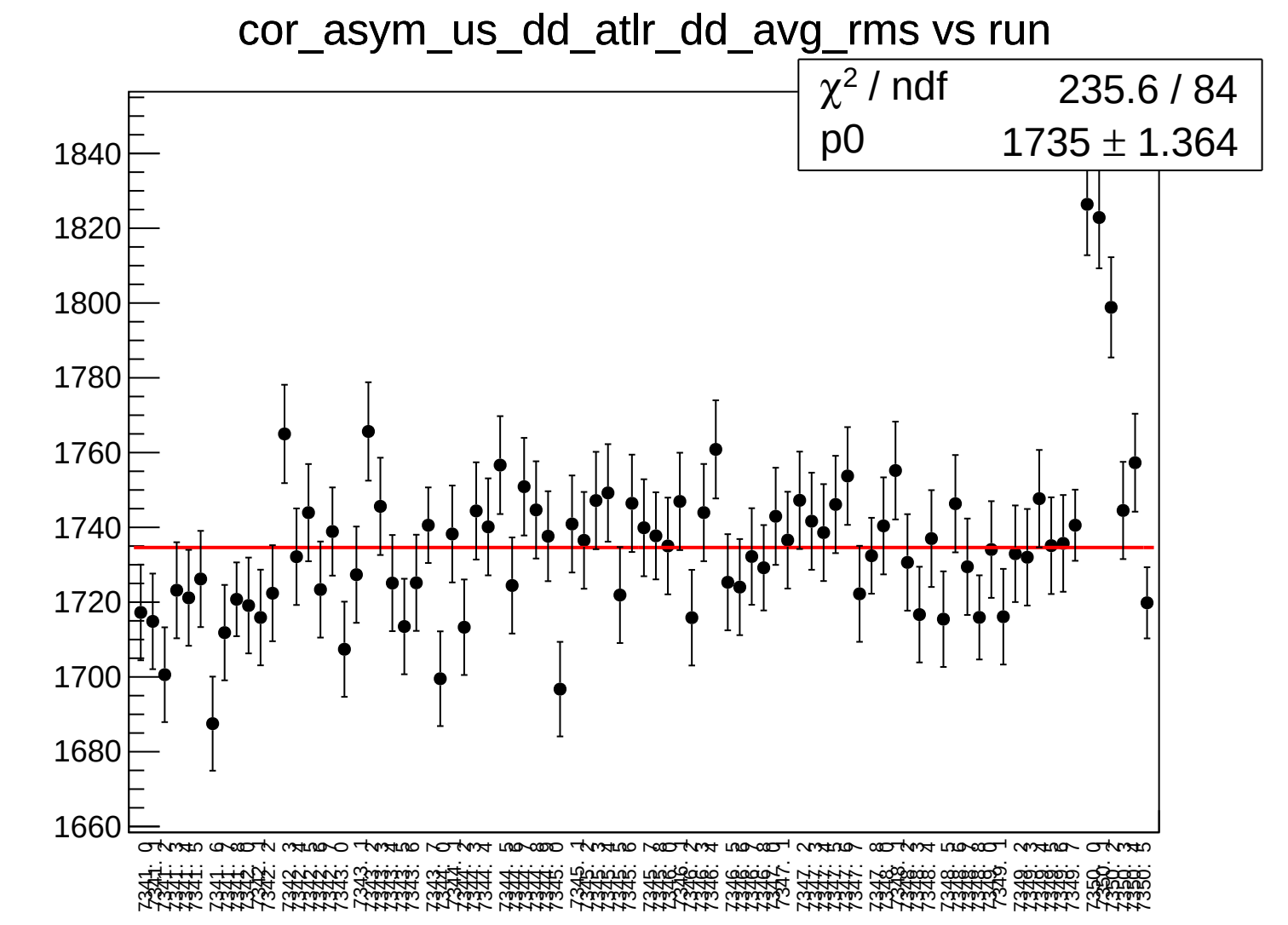

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 81.84 / 84
p0 −608.7 ± 703.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −364
Std Dev 0
3
2
1
0
−1
−2

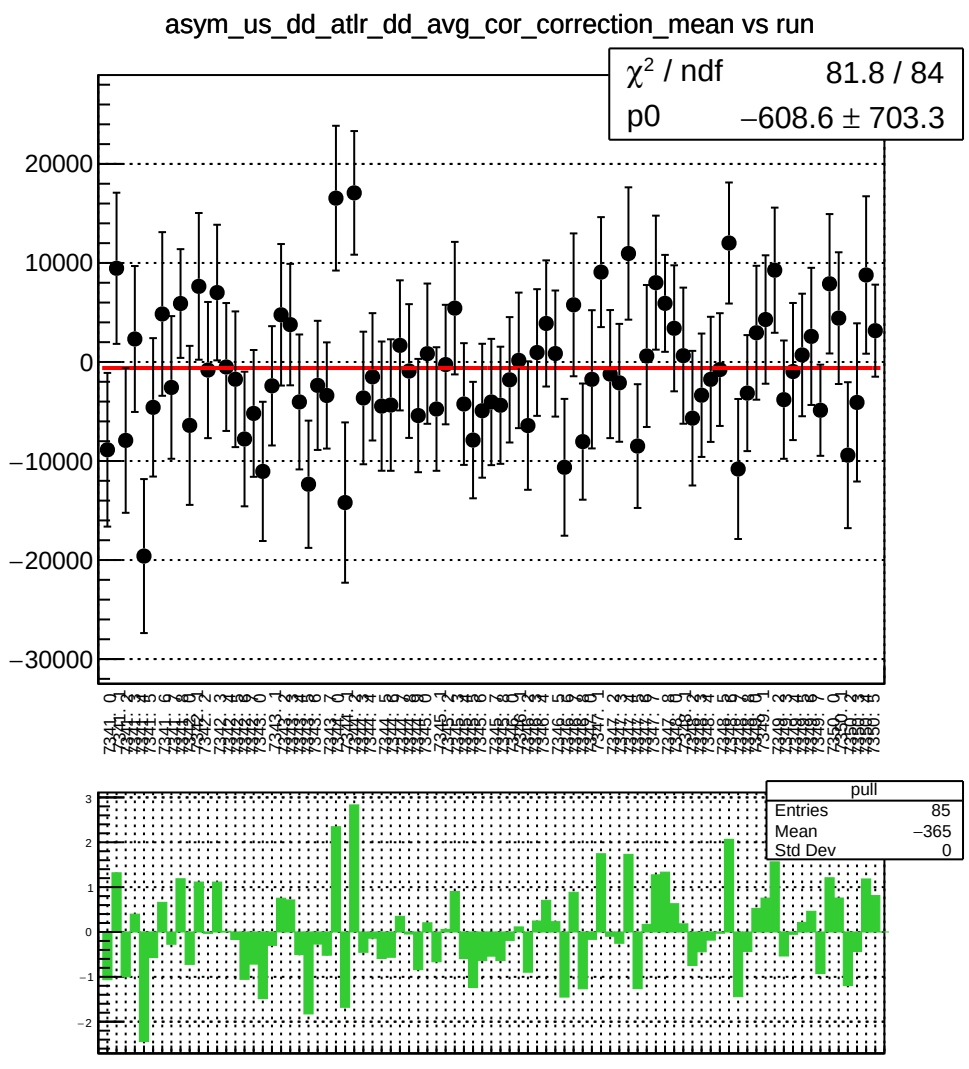

pull1D
Entries 85
Mean −0.009325
Std Dev 0.9812
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

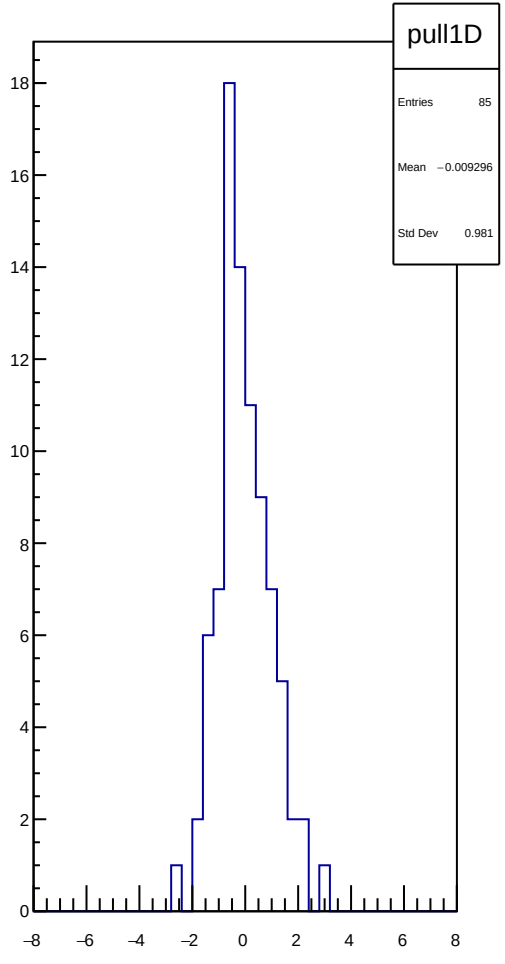

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 9941 / 84
p0 630.4 ± 0.4973
800
750
700
650
600
550
500

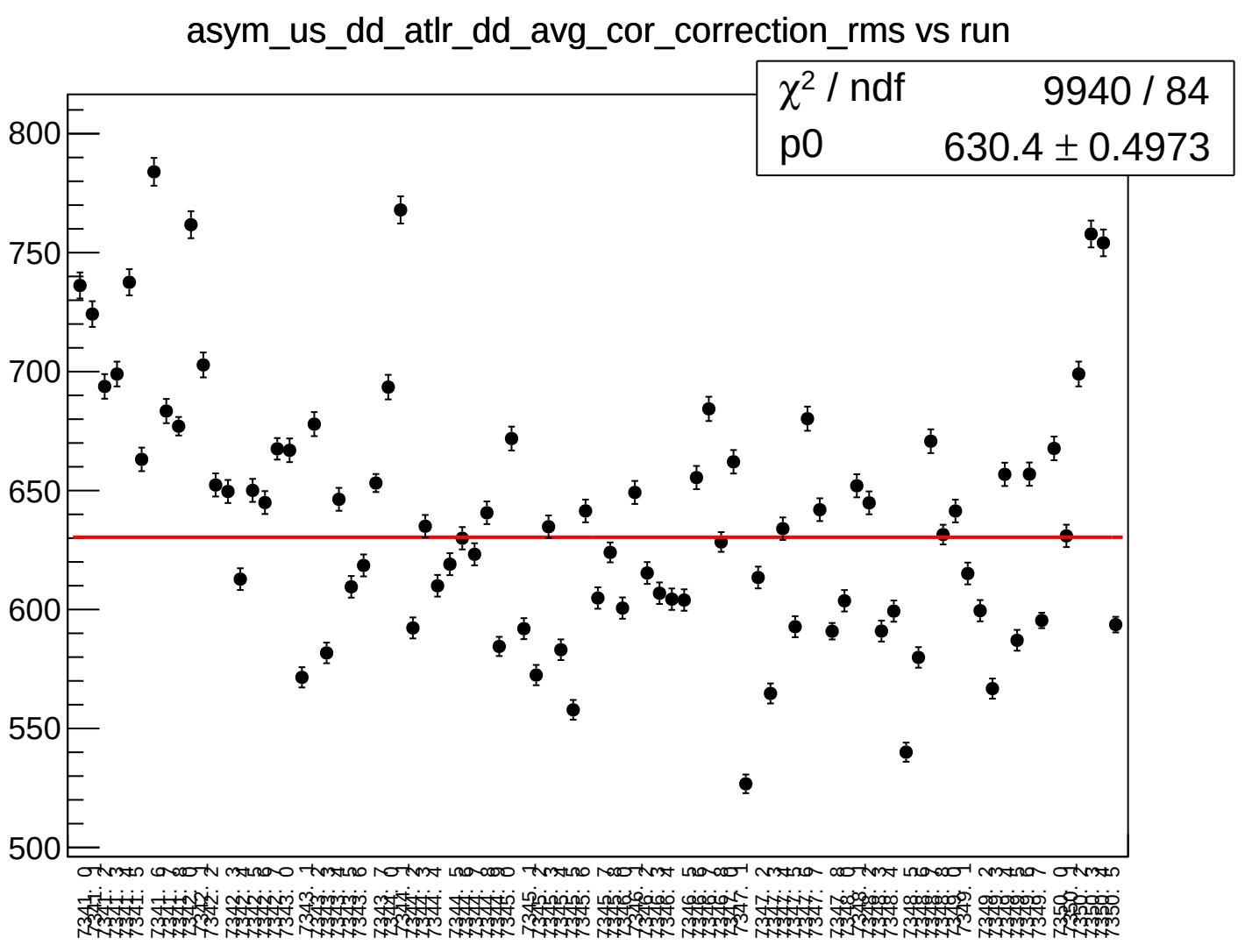

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 72.55 / 84
p0 −2245 ± 1930
pull
Entries 85
Mean −1311
Std Dev 0

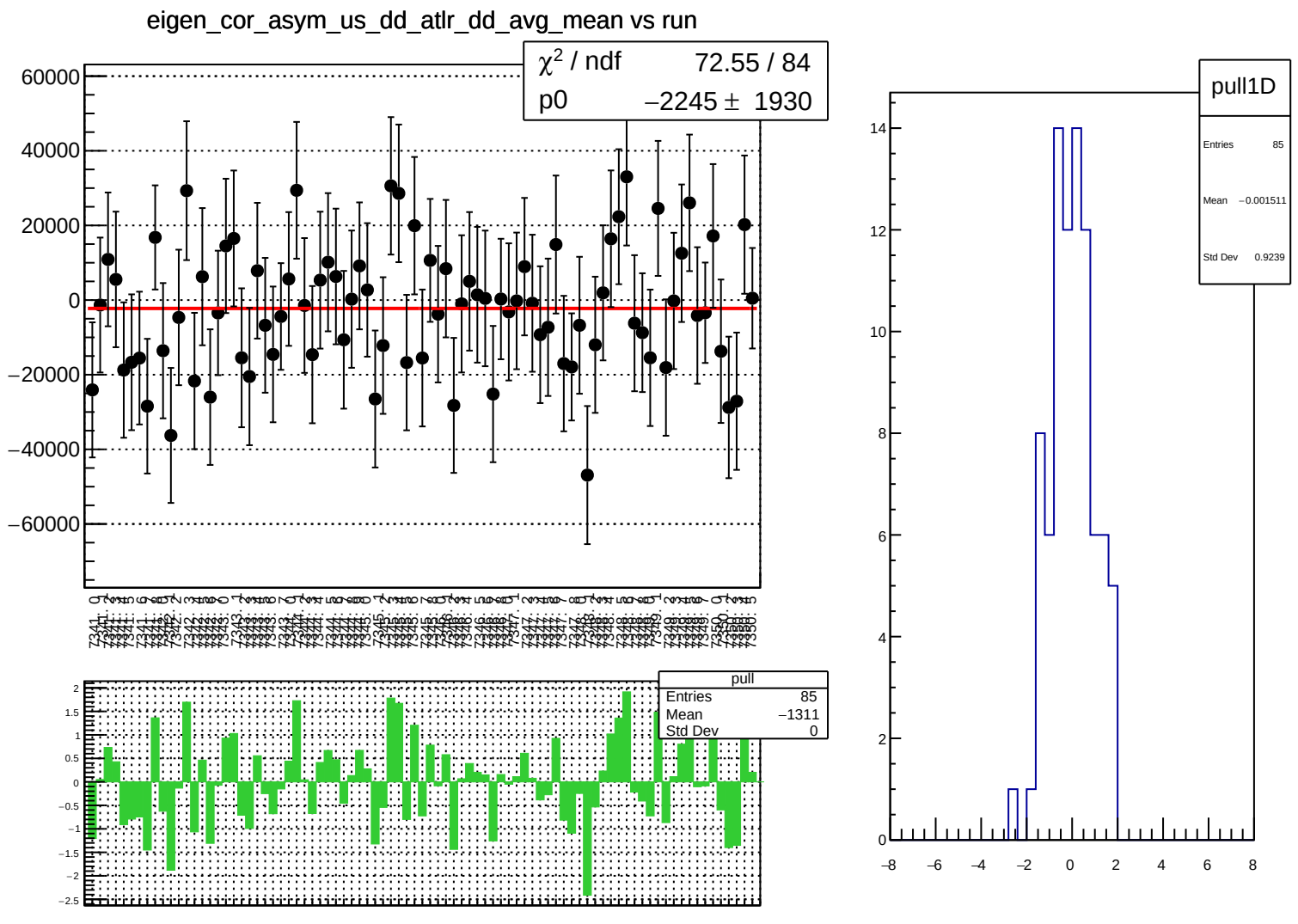

pull1D
Entries 85
Mean −0.001511
Std Dev 0.9239

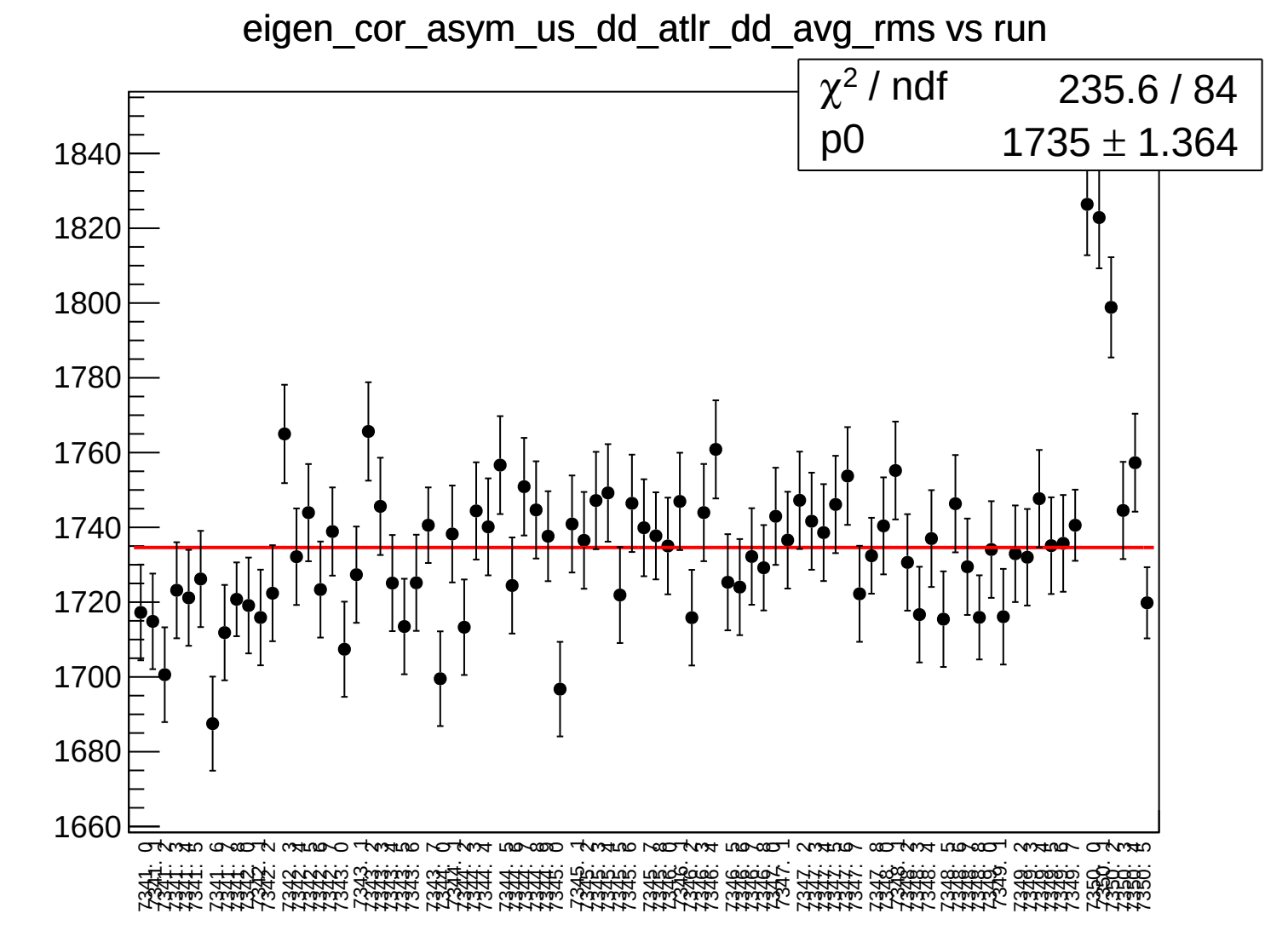

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 235.6 / 84
p0 1735 ± 1.364
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

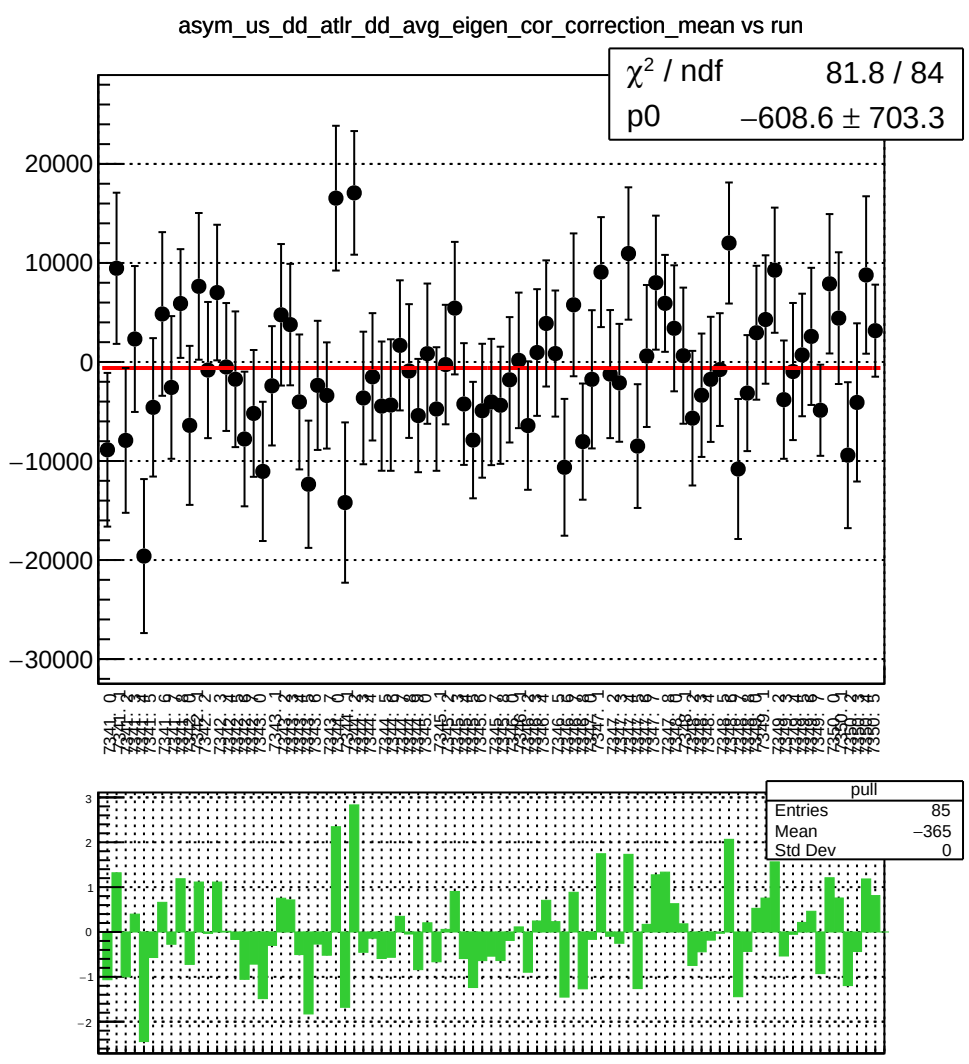

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 81.8 / 84
p0 −608.6 ± 703.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −365
Std Dev 0
3
2
1
0
−1
−2

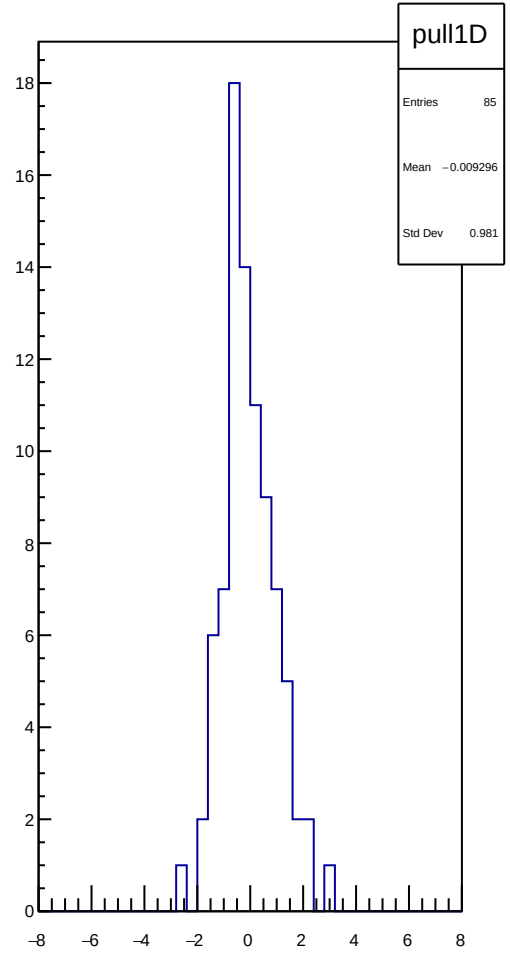

pull1D
Entries 85
Mean −0.009296
Std Dev 0.981
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

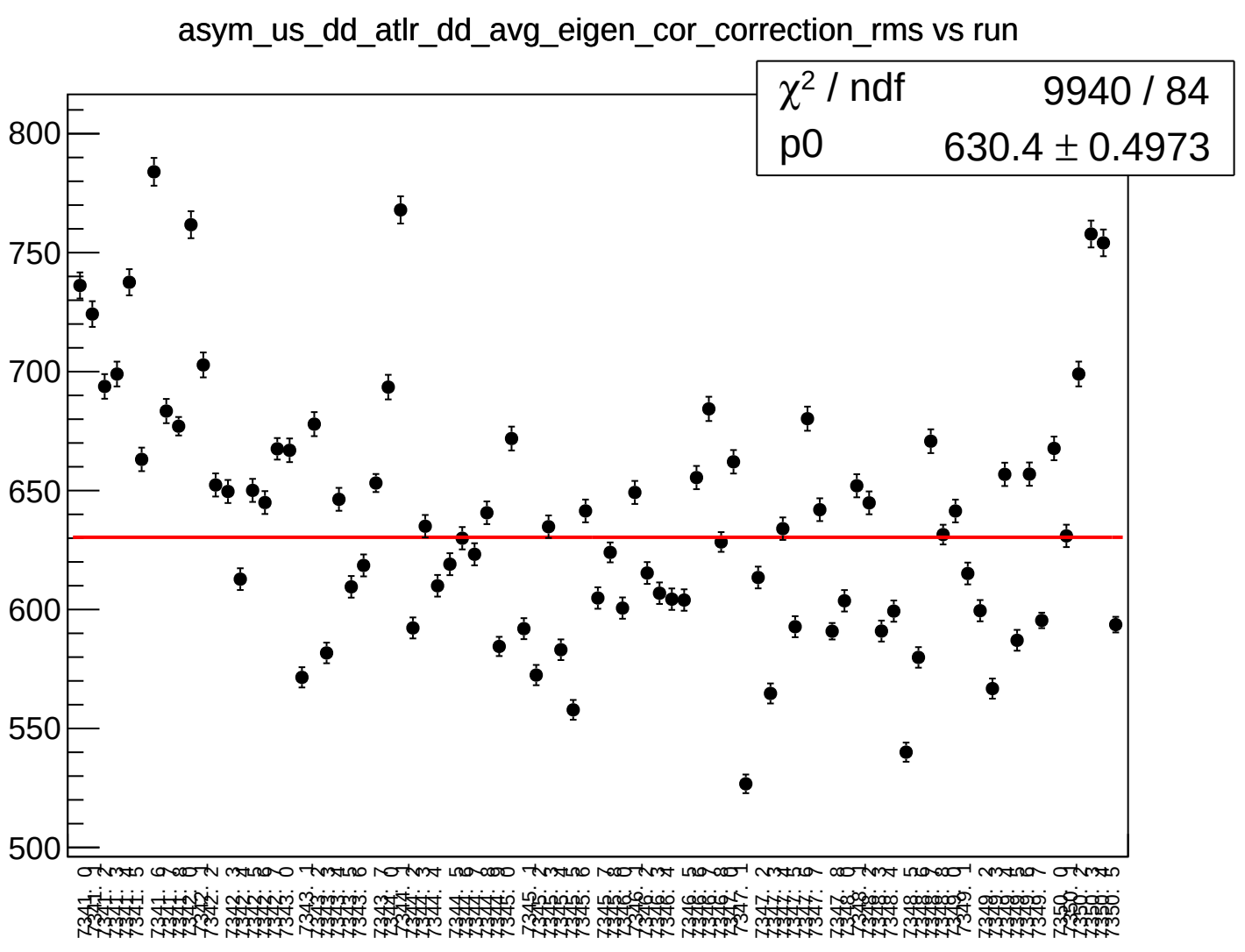

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 9940 / 84
p0 630.4 ± 0.4973
800
750
700
650
600
550
500

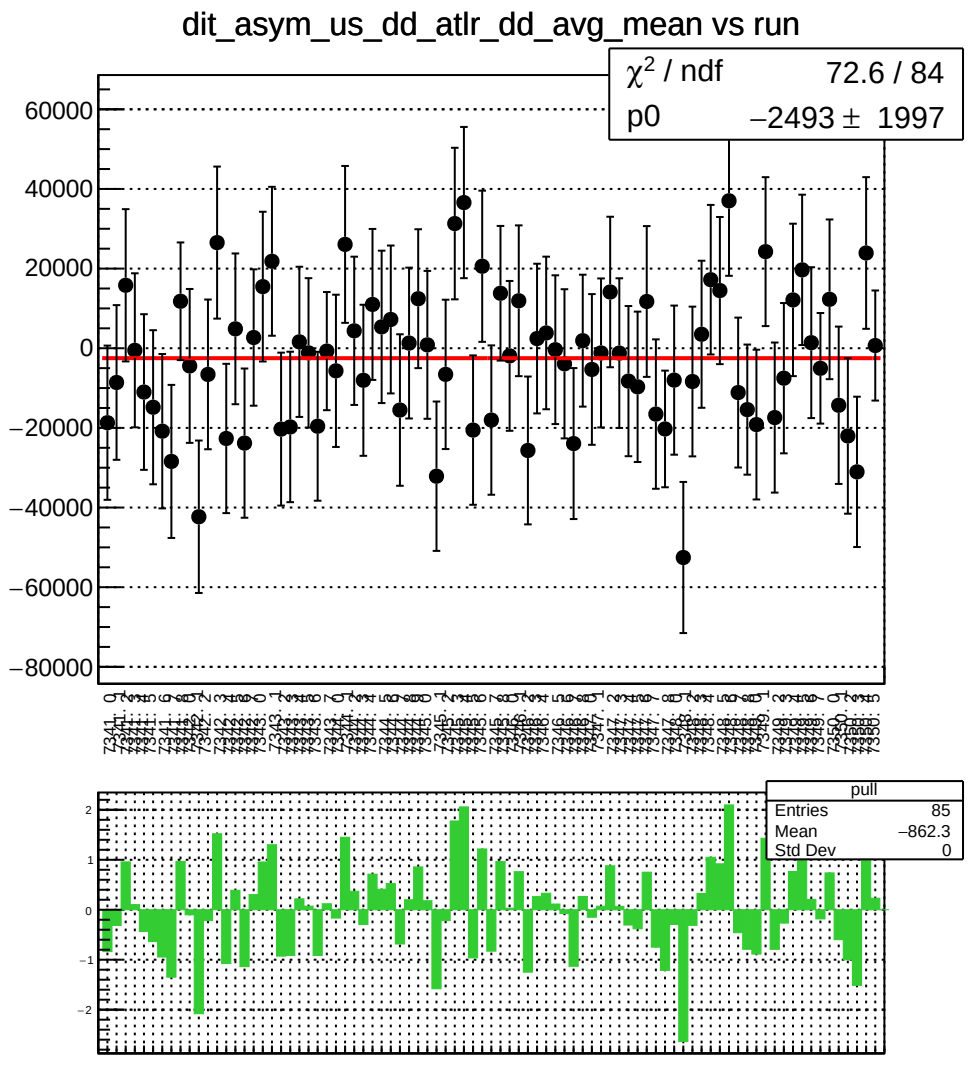

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 72.55 / 84
p0 −2245 ± 1930
pull
Entries 85
Mean −1311
Std Dev 0
pull1D
Entries 85
Mean −0.001511
Std Dev 0.9239

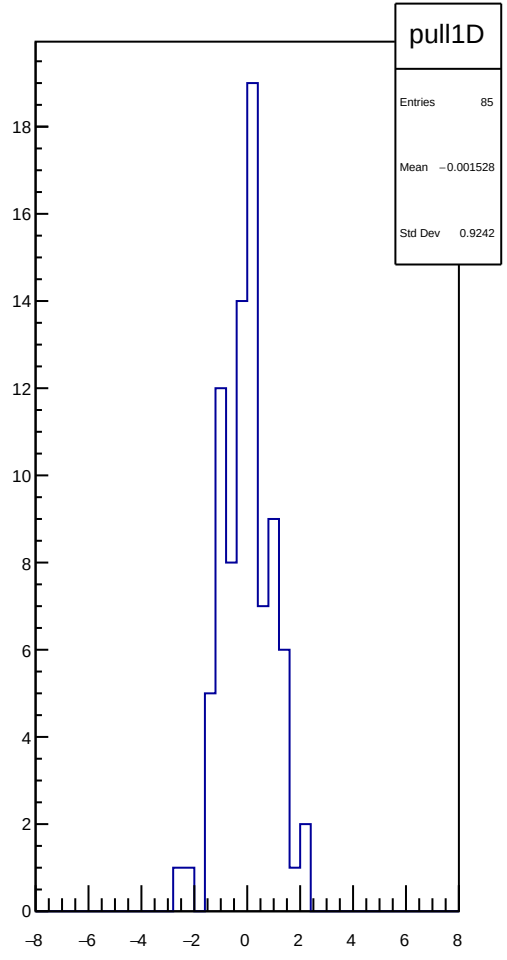

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 235.6 / 84
p0 1735 ± 1.364
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

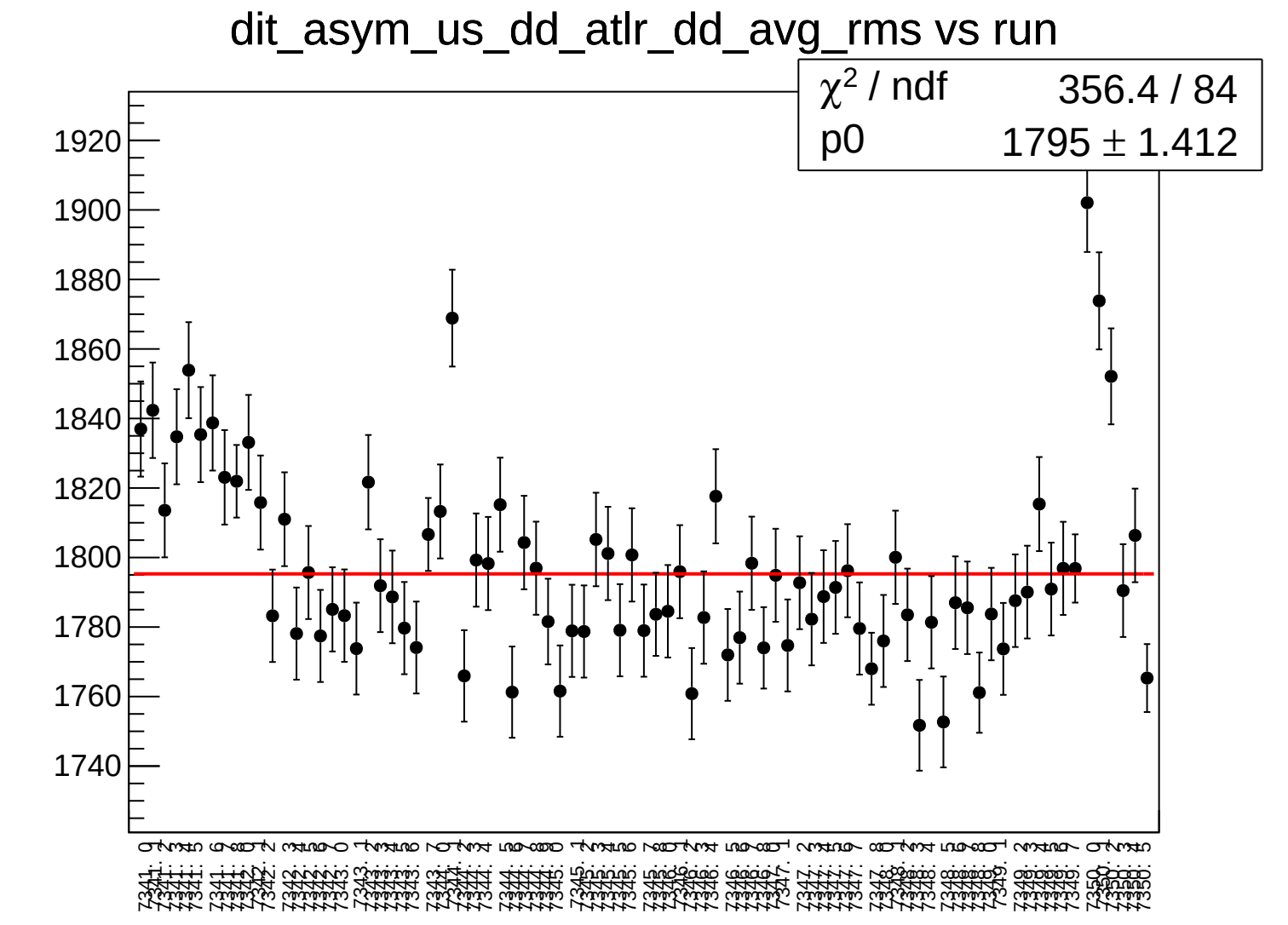

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.8 / 84
p0 −608.6 ± 703.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −365
Std Dev 0
3
2
1
0
−1
−2

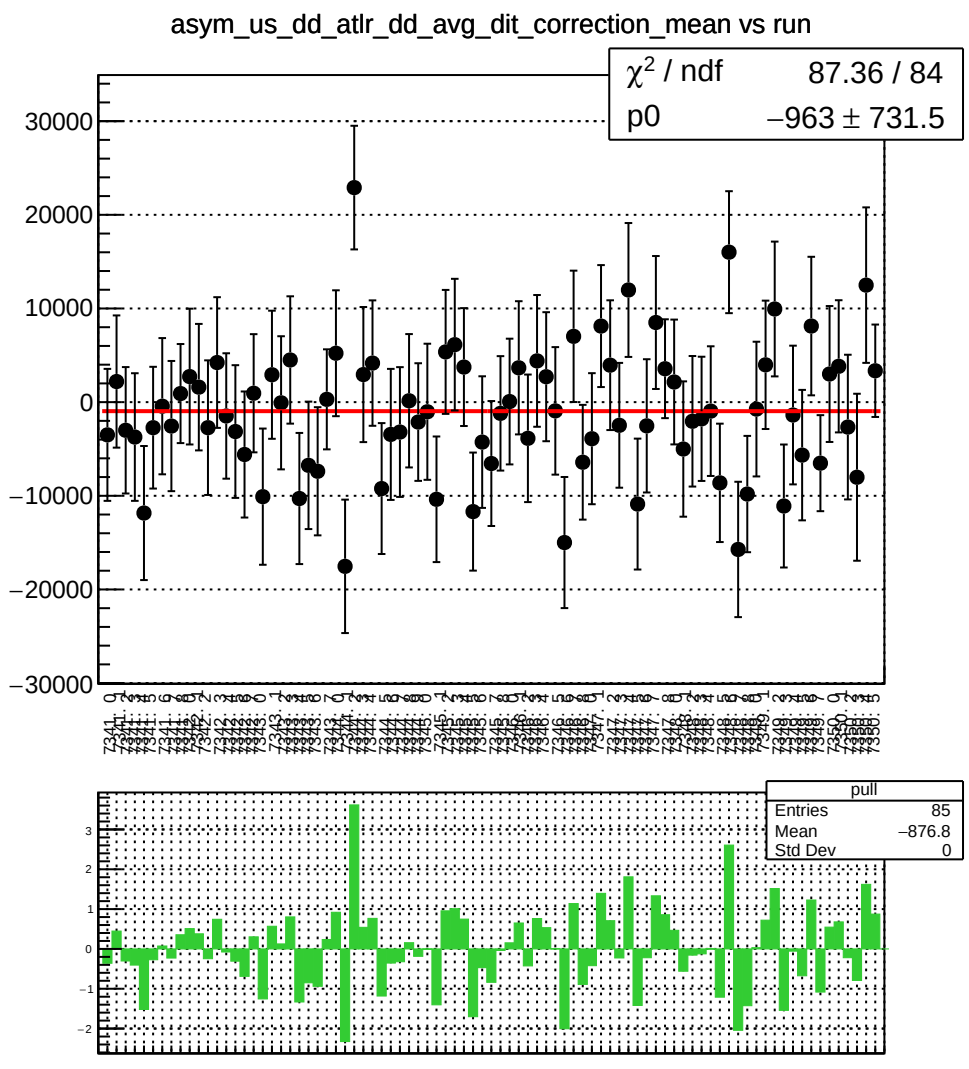

pull1D
Entries 85
Mean −0.009296
Std Dev 0.981
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

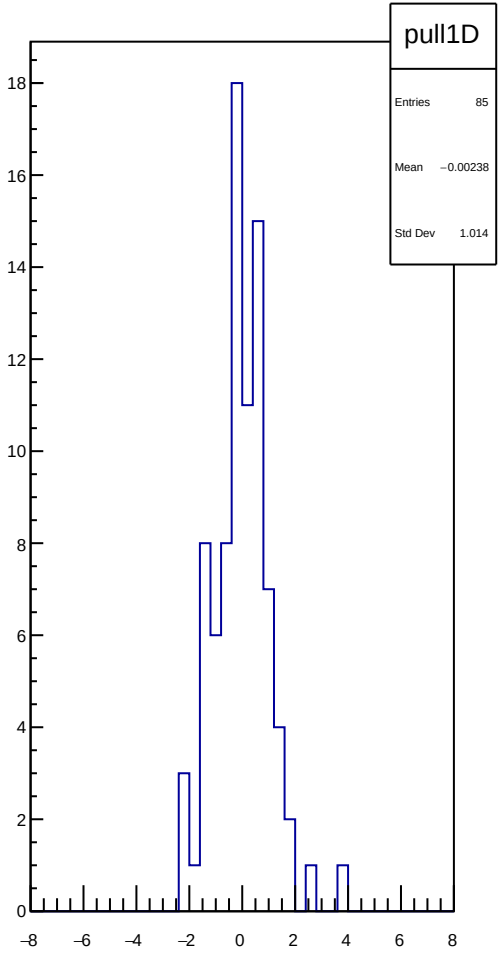

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9940 / 84
p0 630.4 ± 0.4973
800
750
700
650
600
550
500

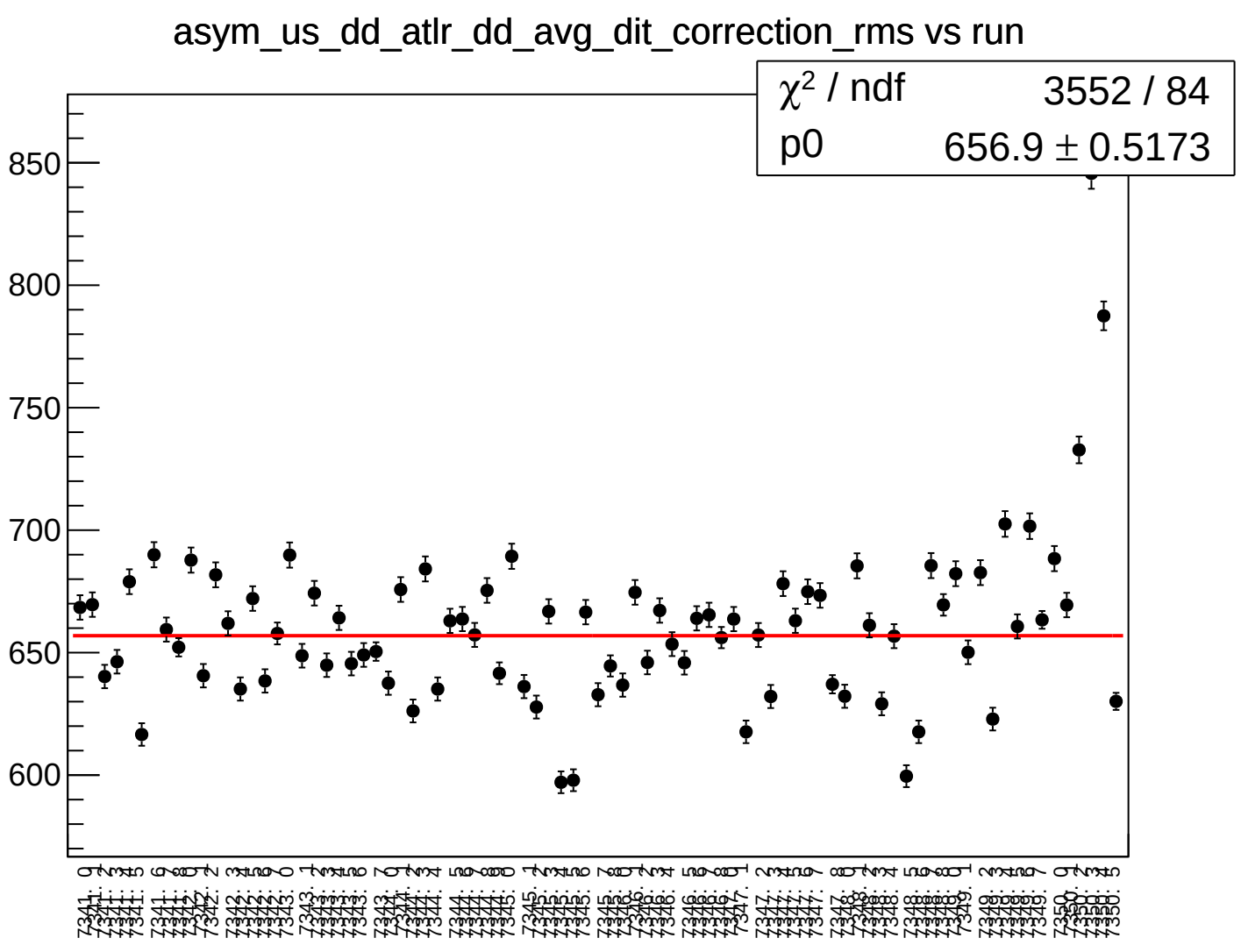

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 72.6 / 84
p0 −2493 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −862.3
Std Dev 0
2
1
0
−1
−2

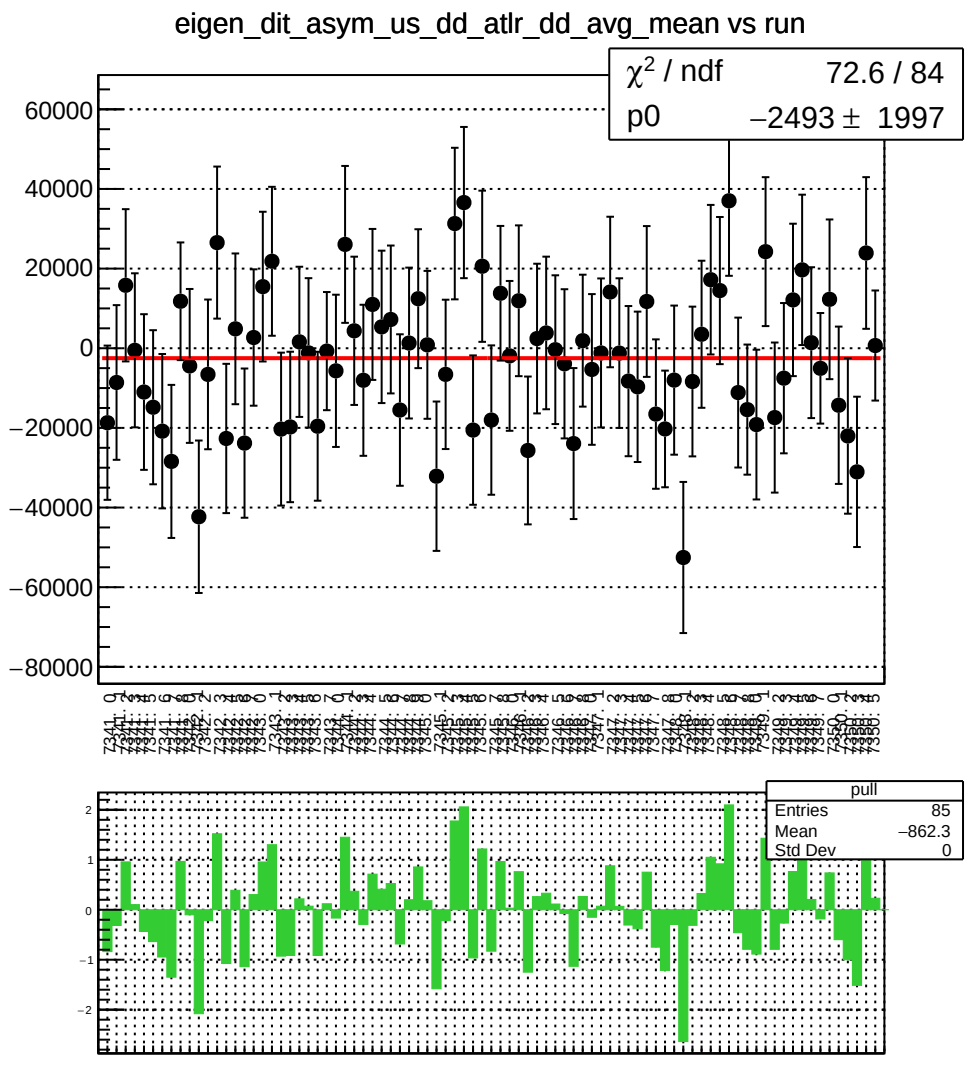

pull1D
Entries 85
Mean −0.001528
Std Dev 0.9242
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

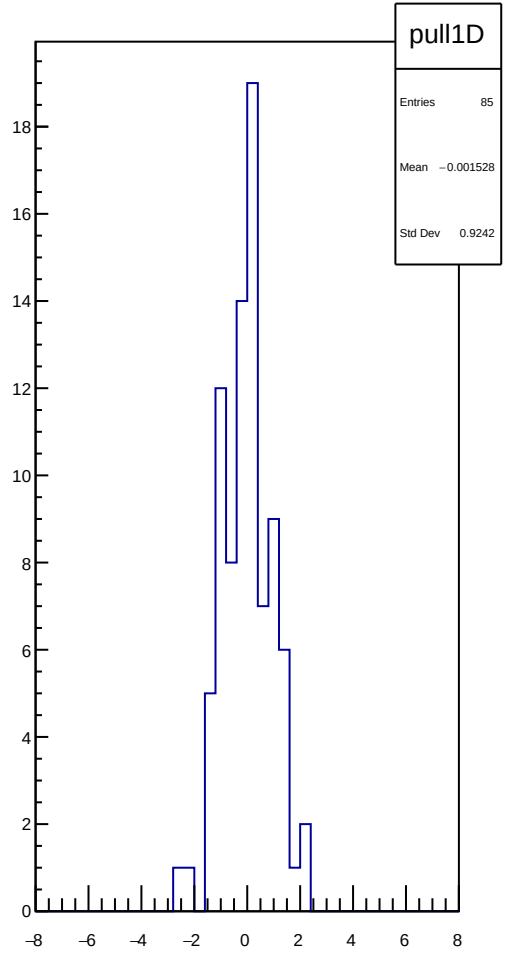

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 356.4 / 84
p0 1795 ± 1.412
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

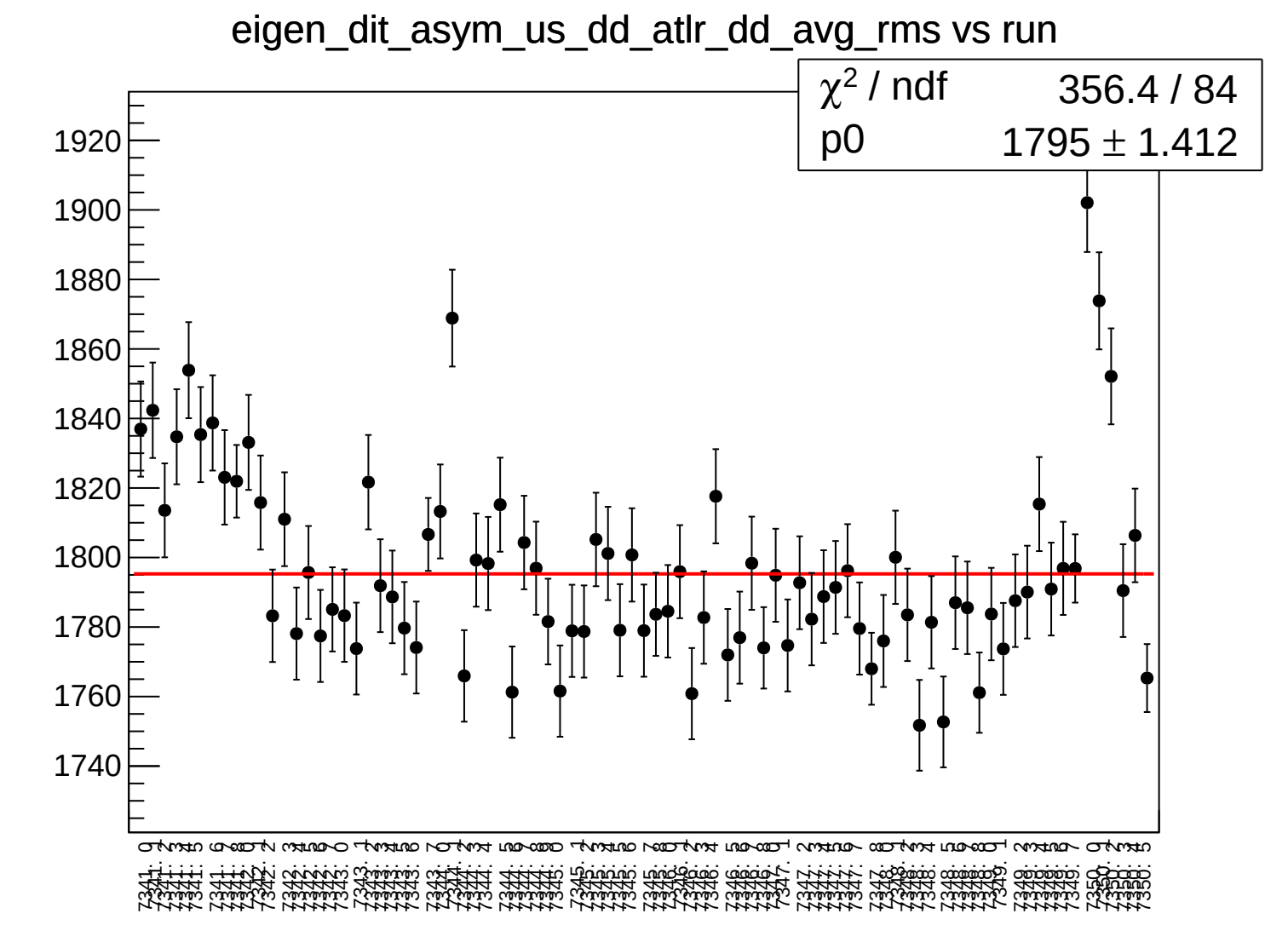

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 87.36 / 84
p0 −963 ± 731.5
pull
Entries 85
Mean −876.8
Std Dev 0

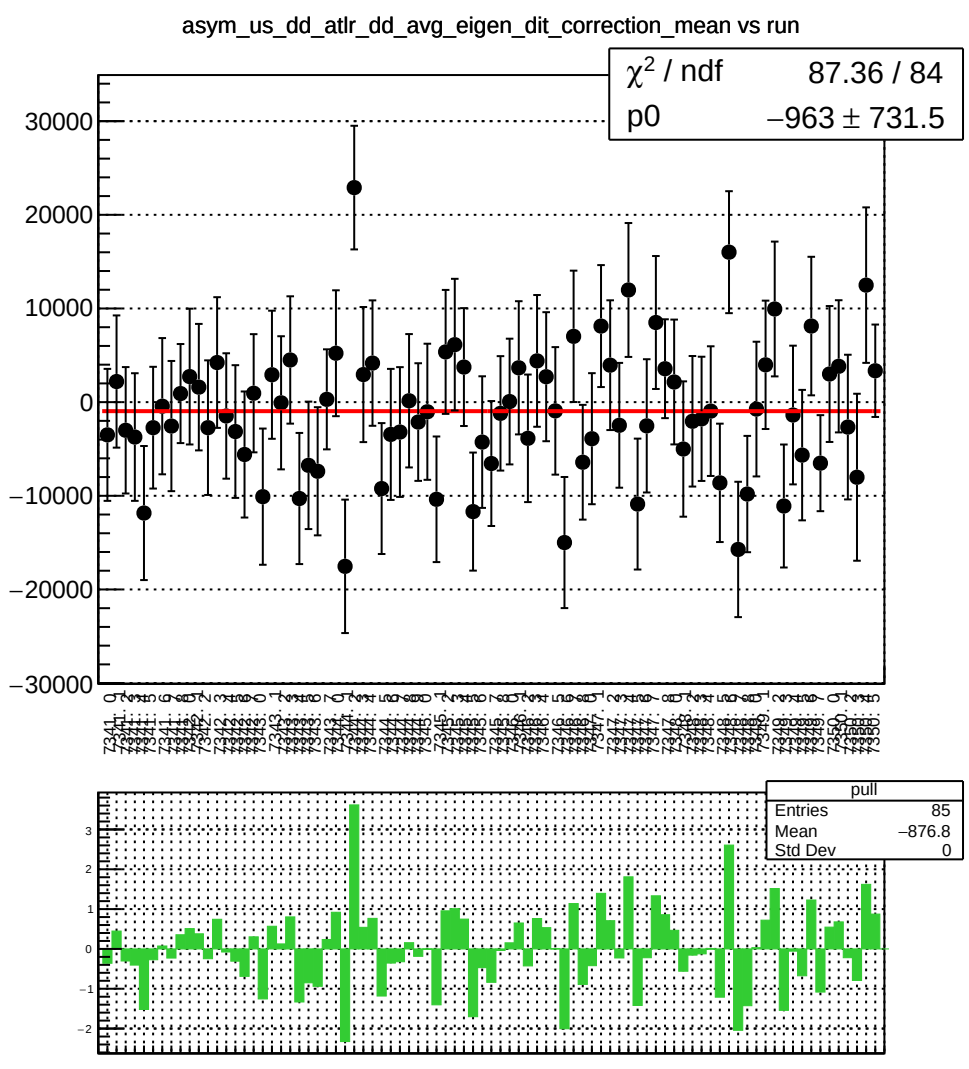

pull1D
Entries 85
Mean −0.00238
Std Dev 1.014

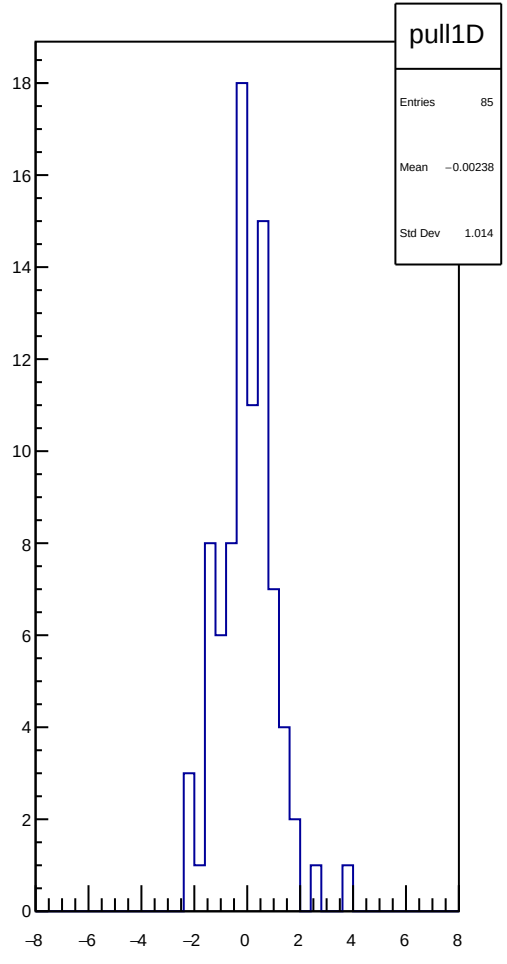

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3552 / 84
p0 656.9 ± 0.5173
850
800
750
700
650
600

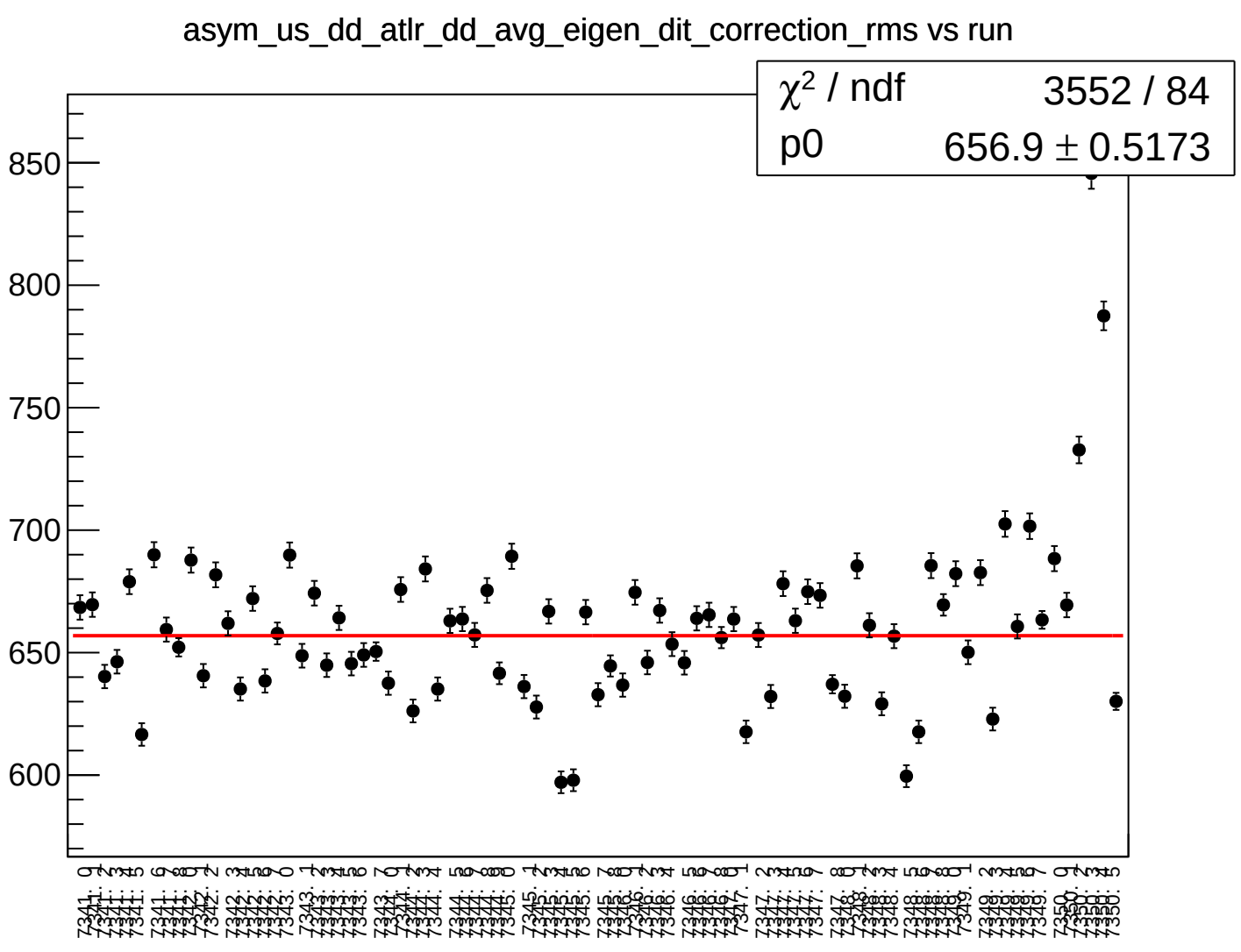

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 72.6 / 84
p0 −2493 ± 1997
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean −862.3
Std Dev 0
2
1
0
−1
−2

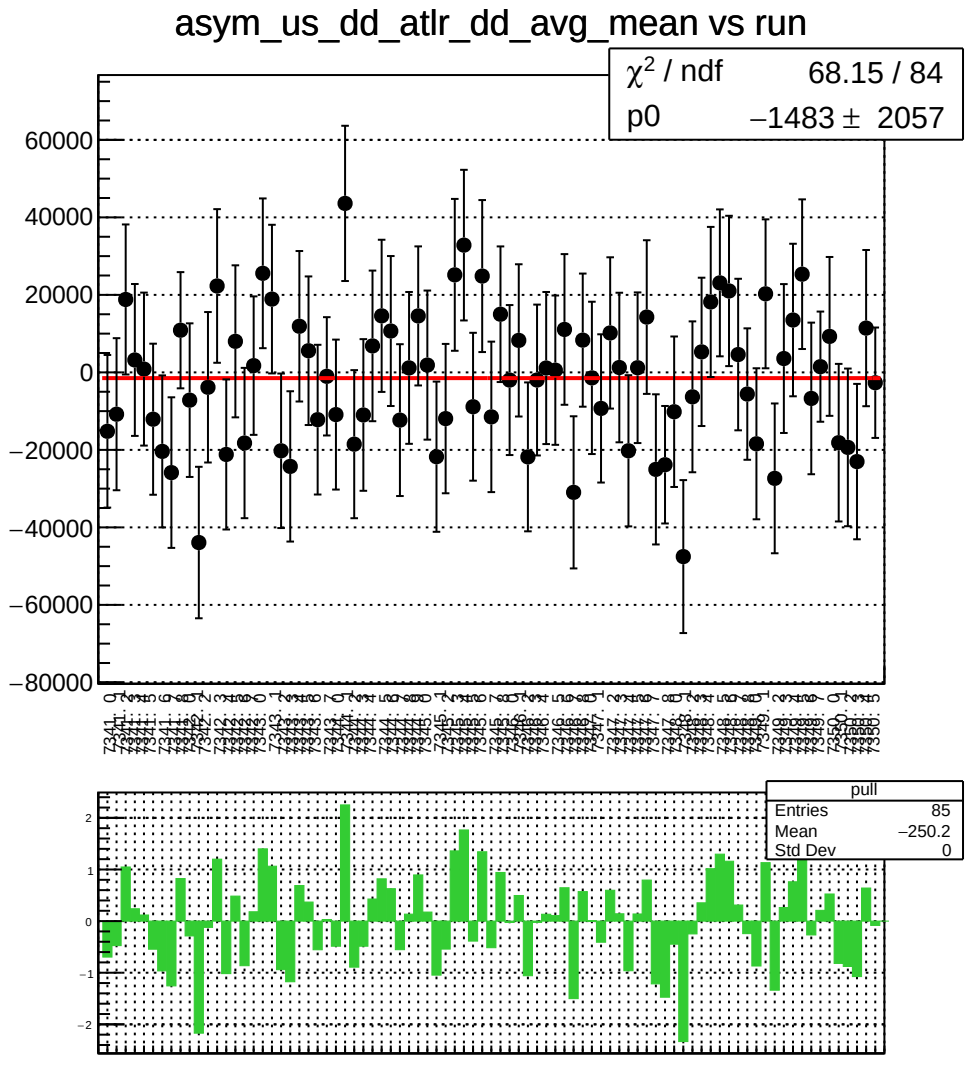

pull1D
Entries 85
Mean −0.001528
Std Dev 0.9242
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

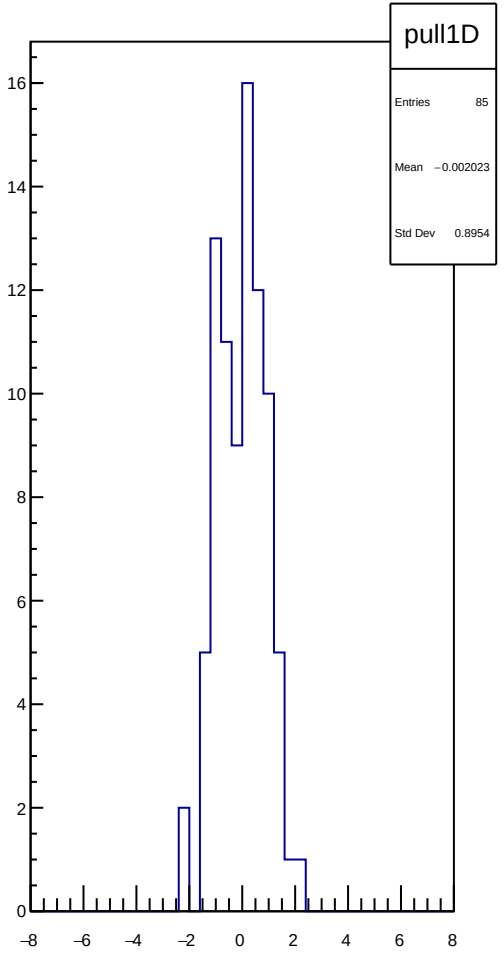

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 356.4 / 84
p0 1795 ± 1.412
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

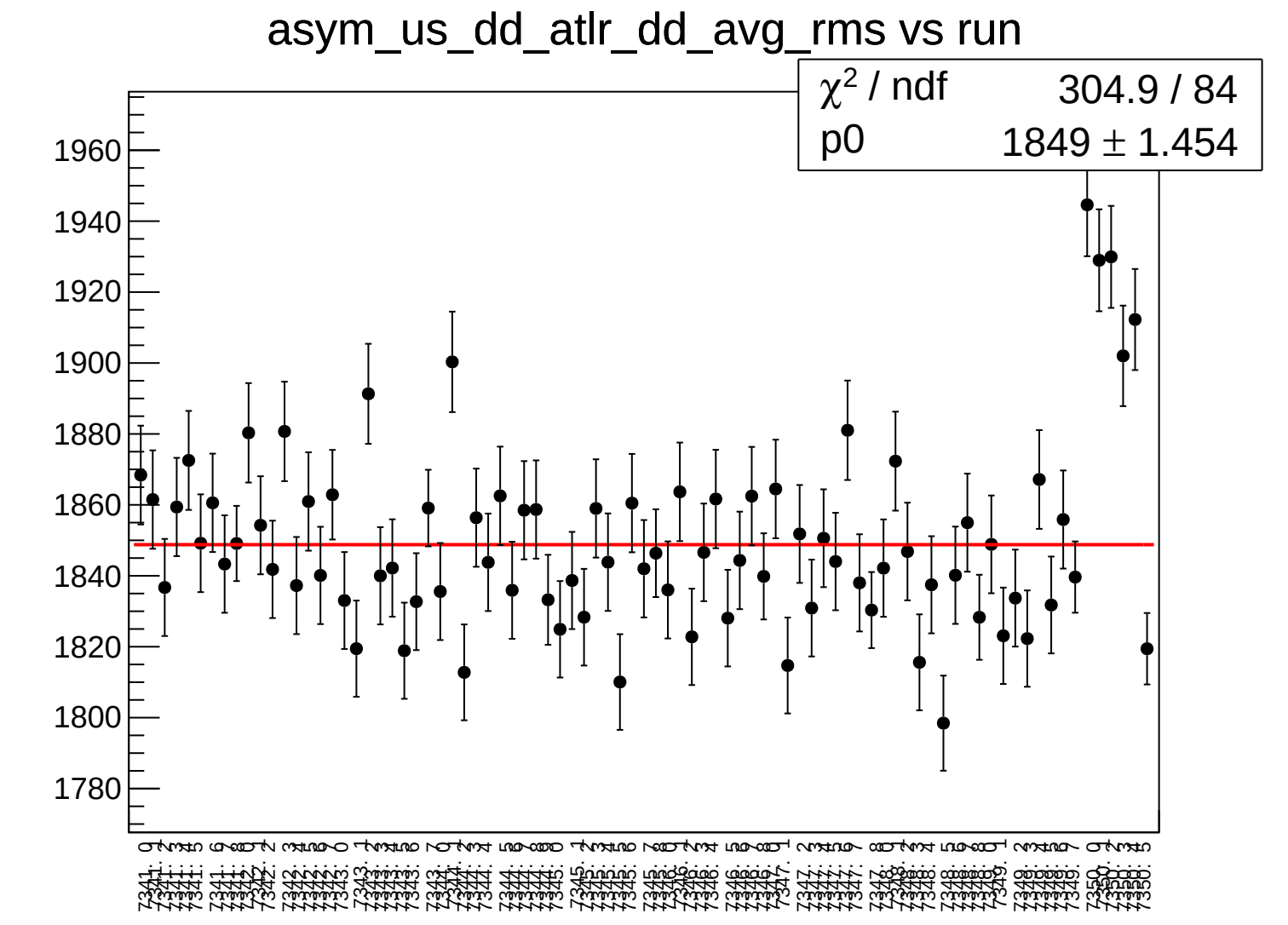

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.36 / 84
p0 −963 ± 731.5
pull
Entries 85
Mean −876.8
Std Dev 0

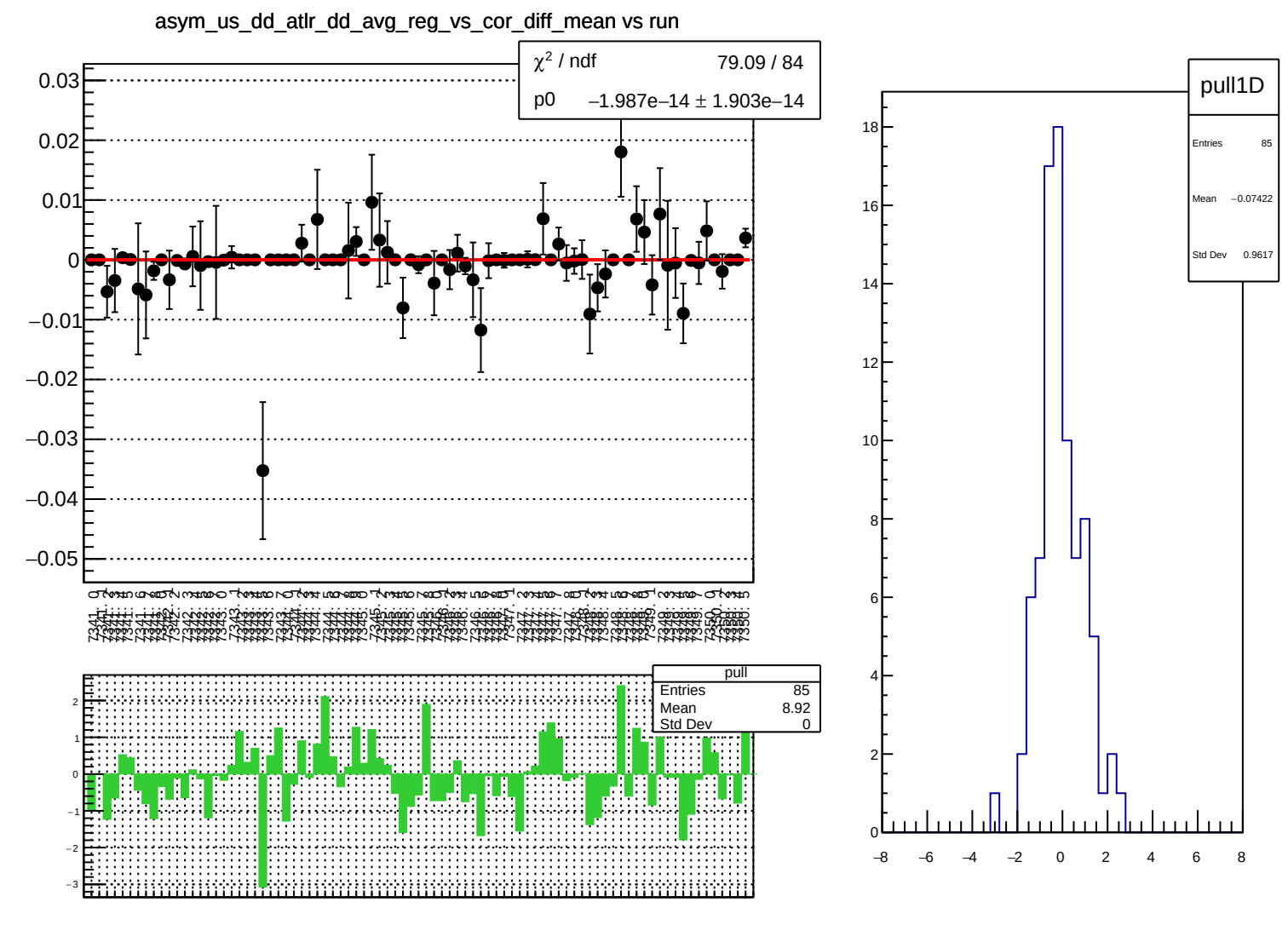

pull1D
Entries 85
Mean −0.00238
Std Dev 1.014

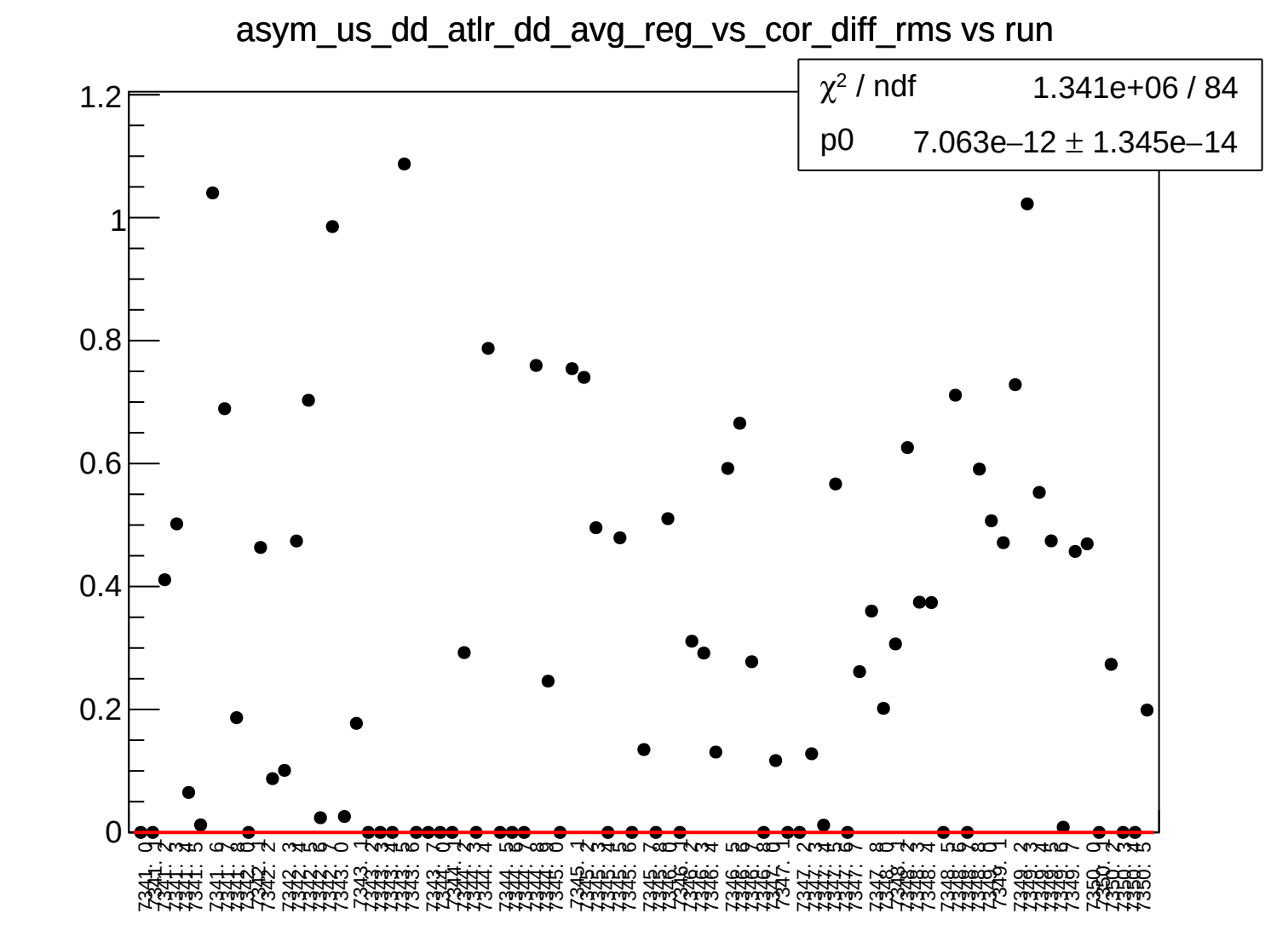

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3552 / 84
p0 656.9 ± 0.5173
850
800
750
700
650
600

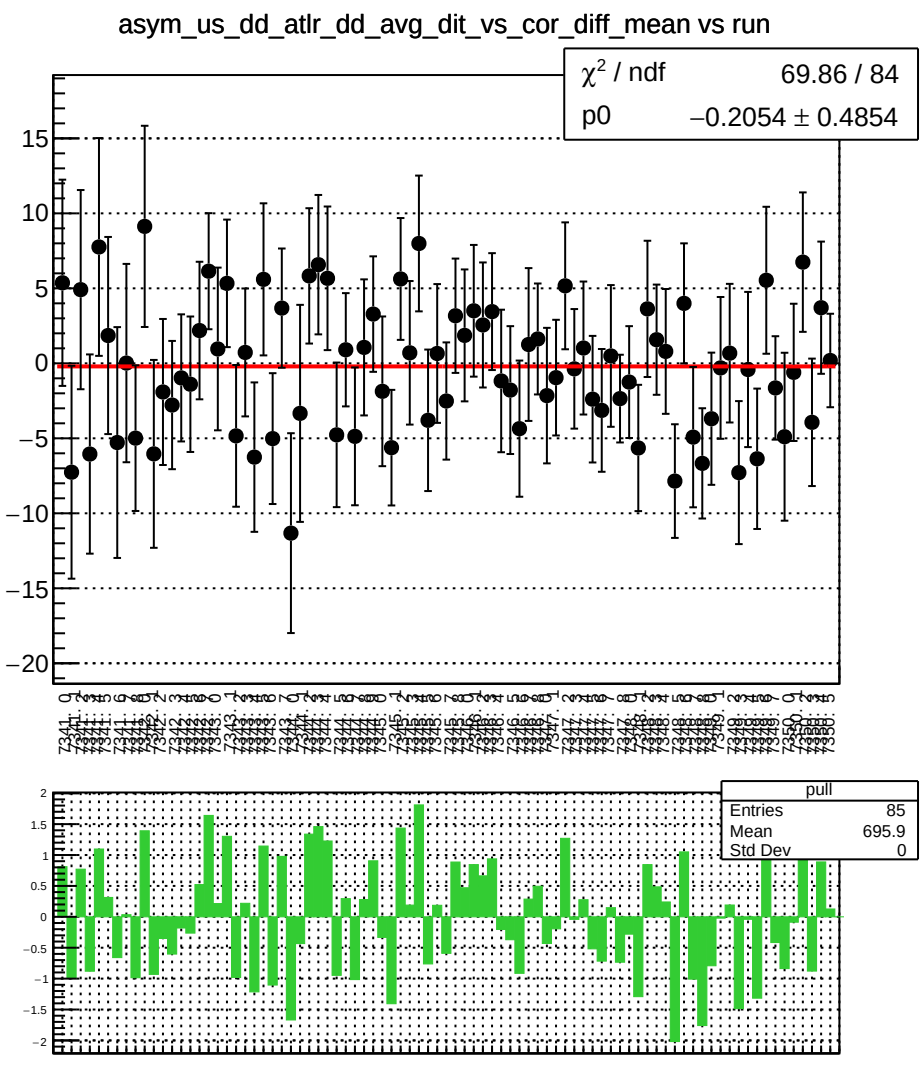

asym_us_dd_atlr_dd_avg_mean vs run
χ^2 / ndf 68.15 / 84
p0 −1483 ± 2057
pull
Entries 85
Mean −250.2
Std Dev 0

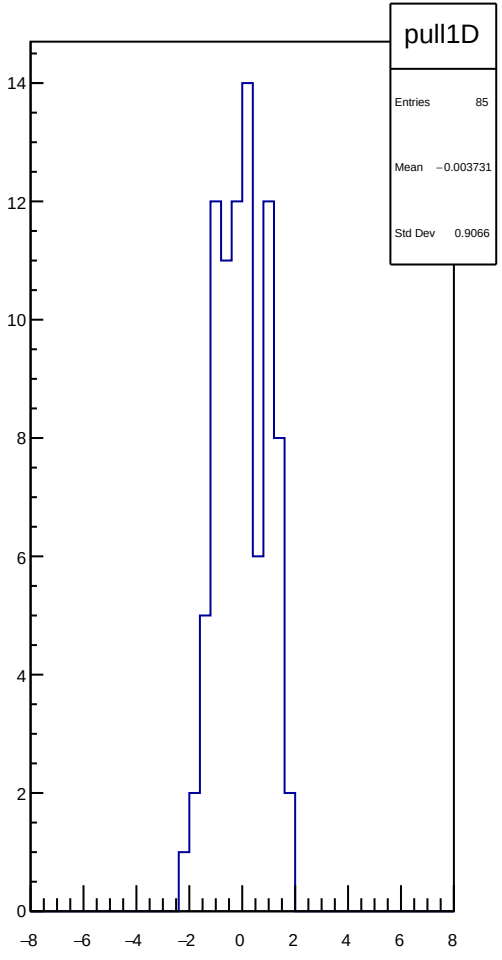

pull1D
Entries 85
Mean −0.002023
Std Dev 0.8954

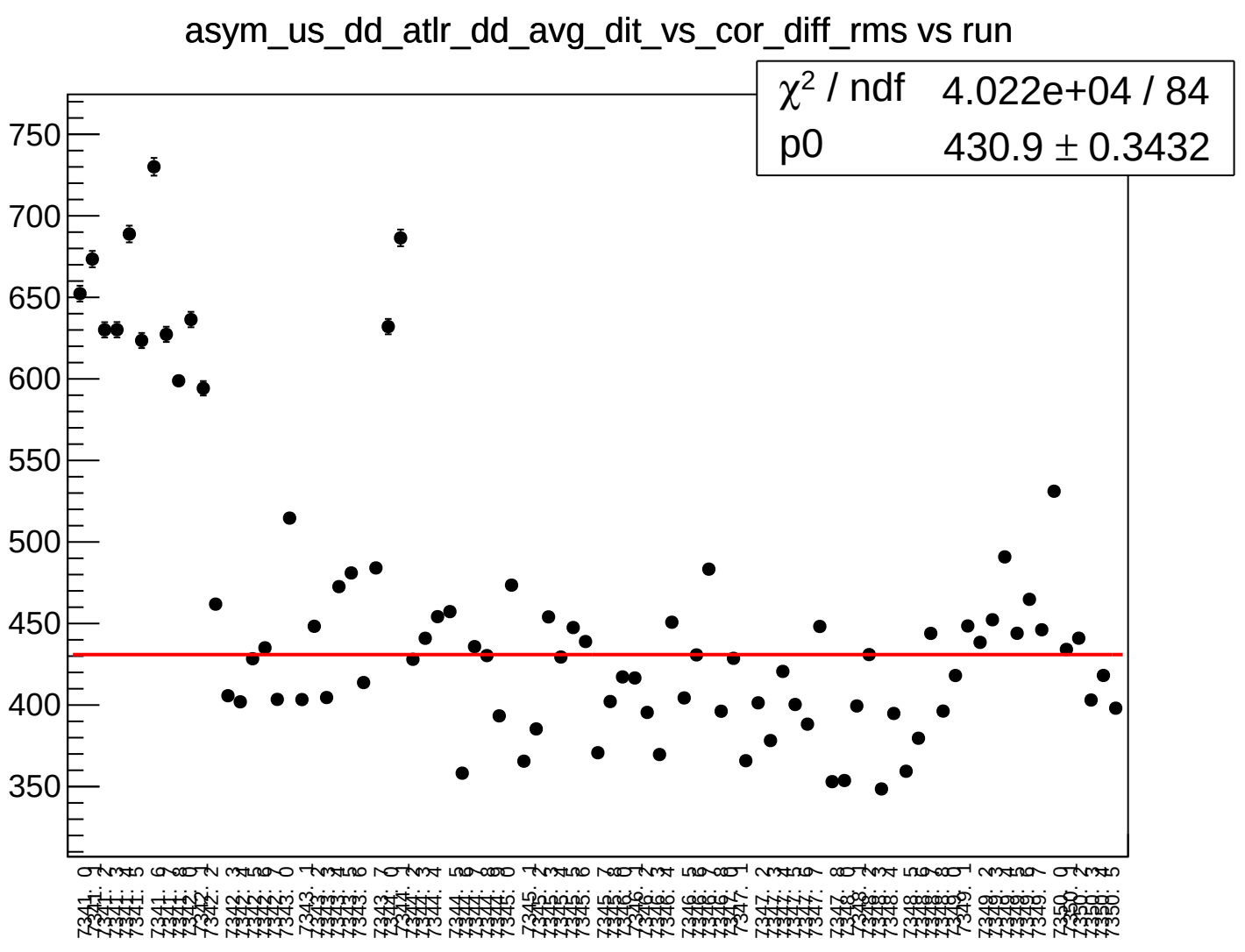

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 304.9 / 84
p0 1849 ± 1.454
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

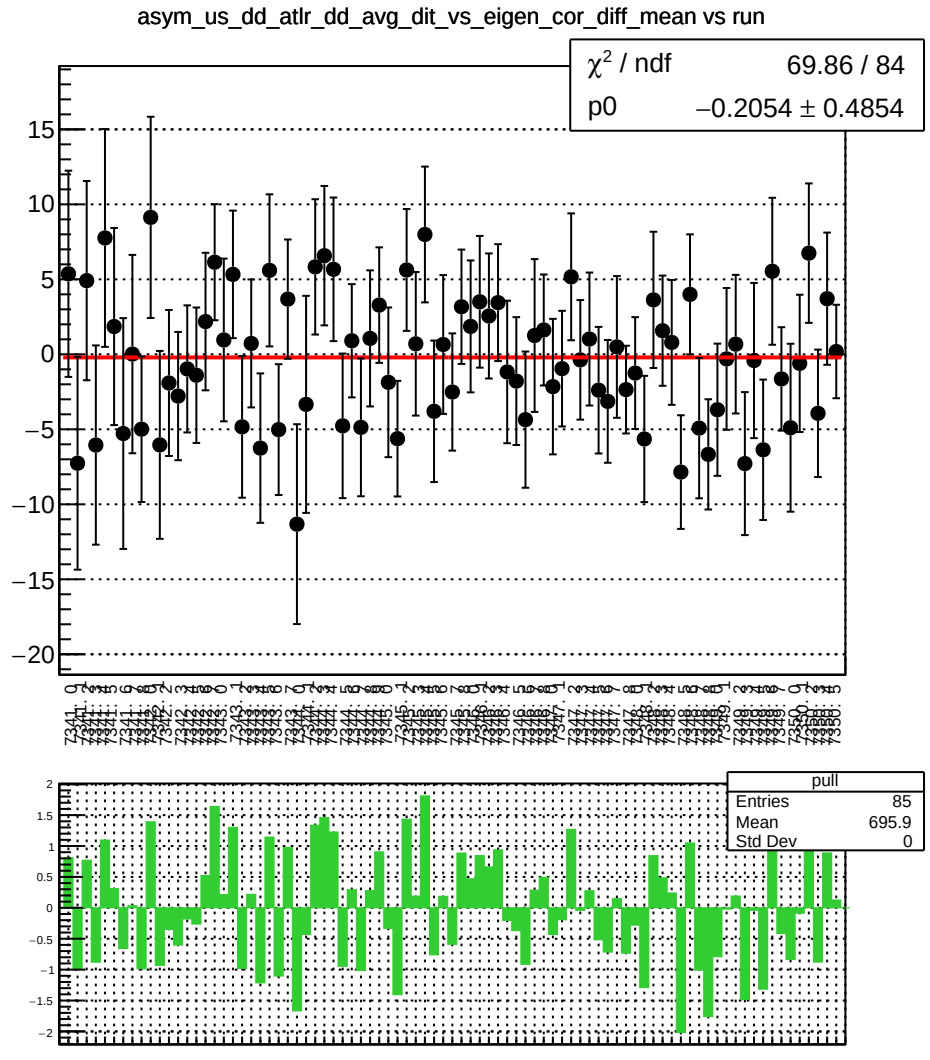

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.09 / 84
p0 −1.987e−14 ± 1.903e−14
pull
Entries 85
Mean 8.92
Std Dev 0
pull1D
Entries 85
Mean −0.07422
Std Dev 0.9617

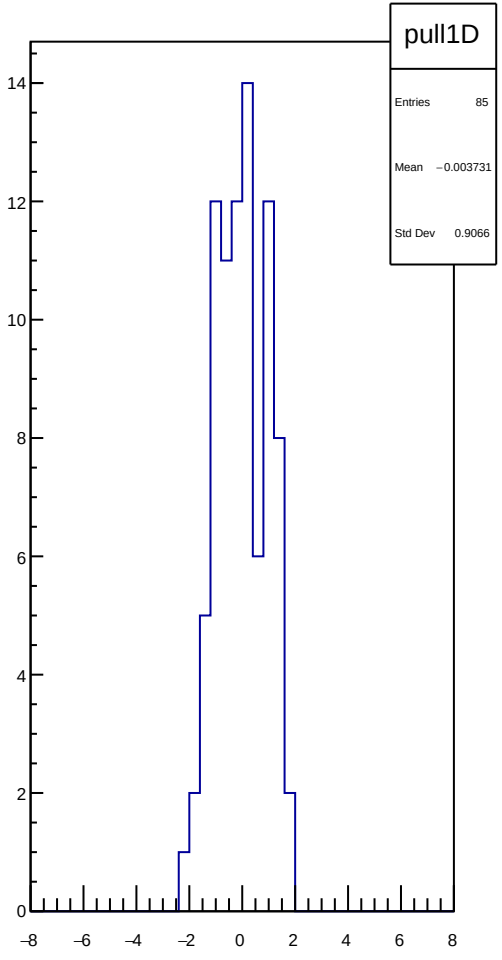

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.341e+06 / 84
p0 7.063e−12 ± 1.345e−14
1.2
1
0.8
0.6
0.4
0.2
0

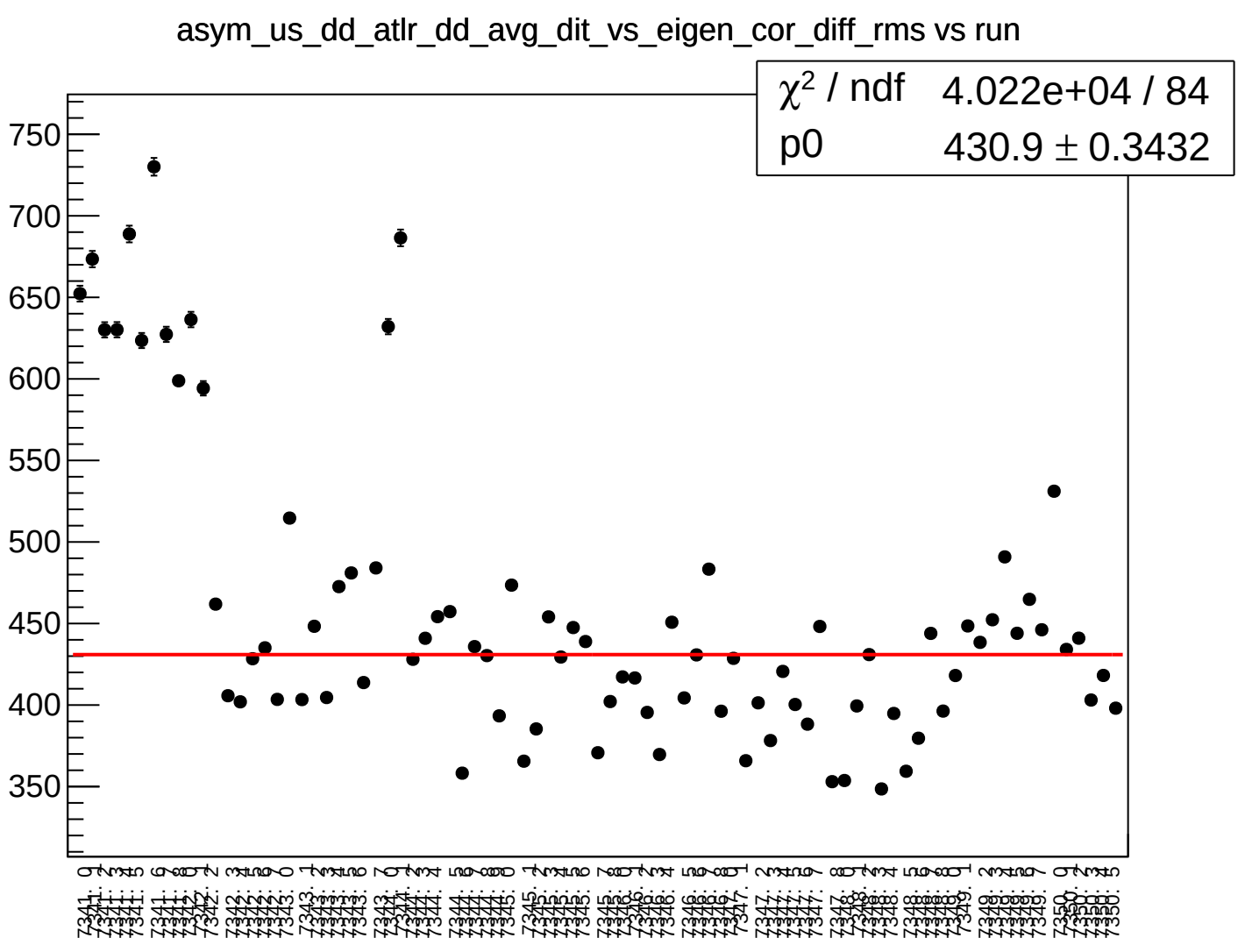

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.86 / 84
p0 −0.2054 ± 0.4854
pull
Entries 85
Mean 695.9
Std Dev 0

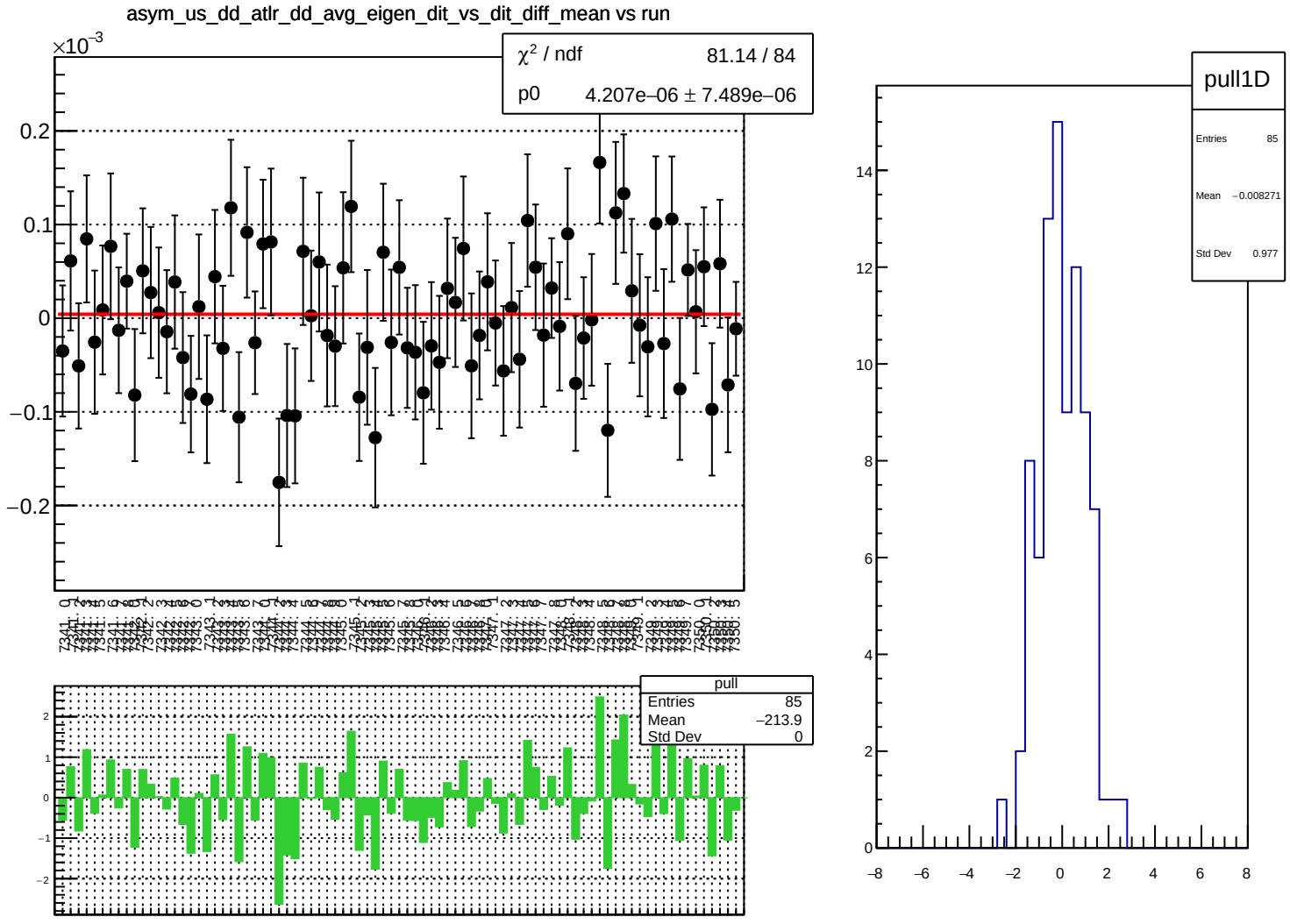

pull1D
Entries 85
Mean −0.003731
Std Dev 0.9066

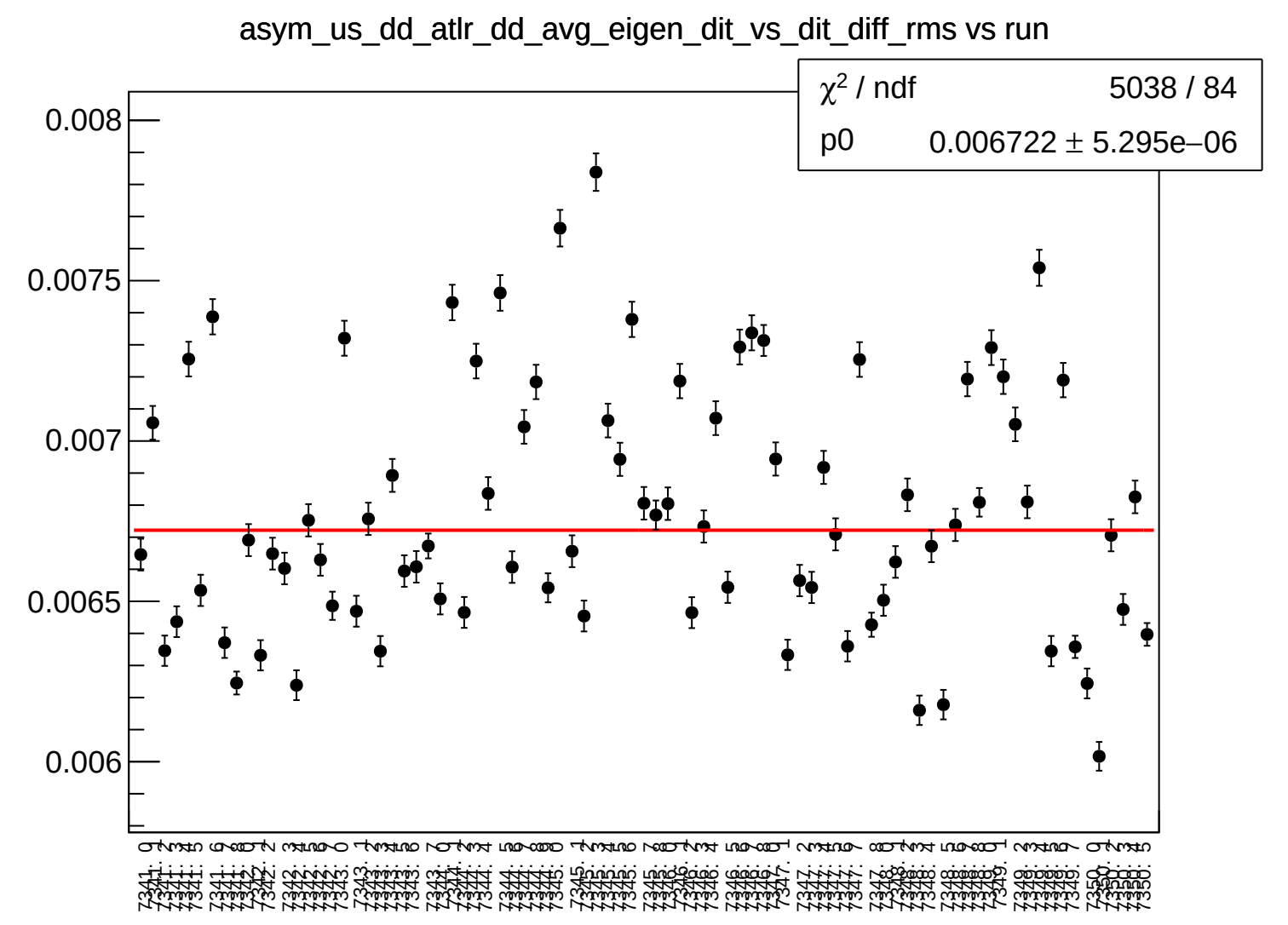

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.022e+04 / 84
p0 430.9 ± 0.3432
750
700
650
600
550
500
450
400
350

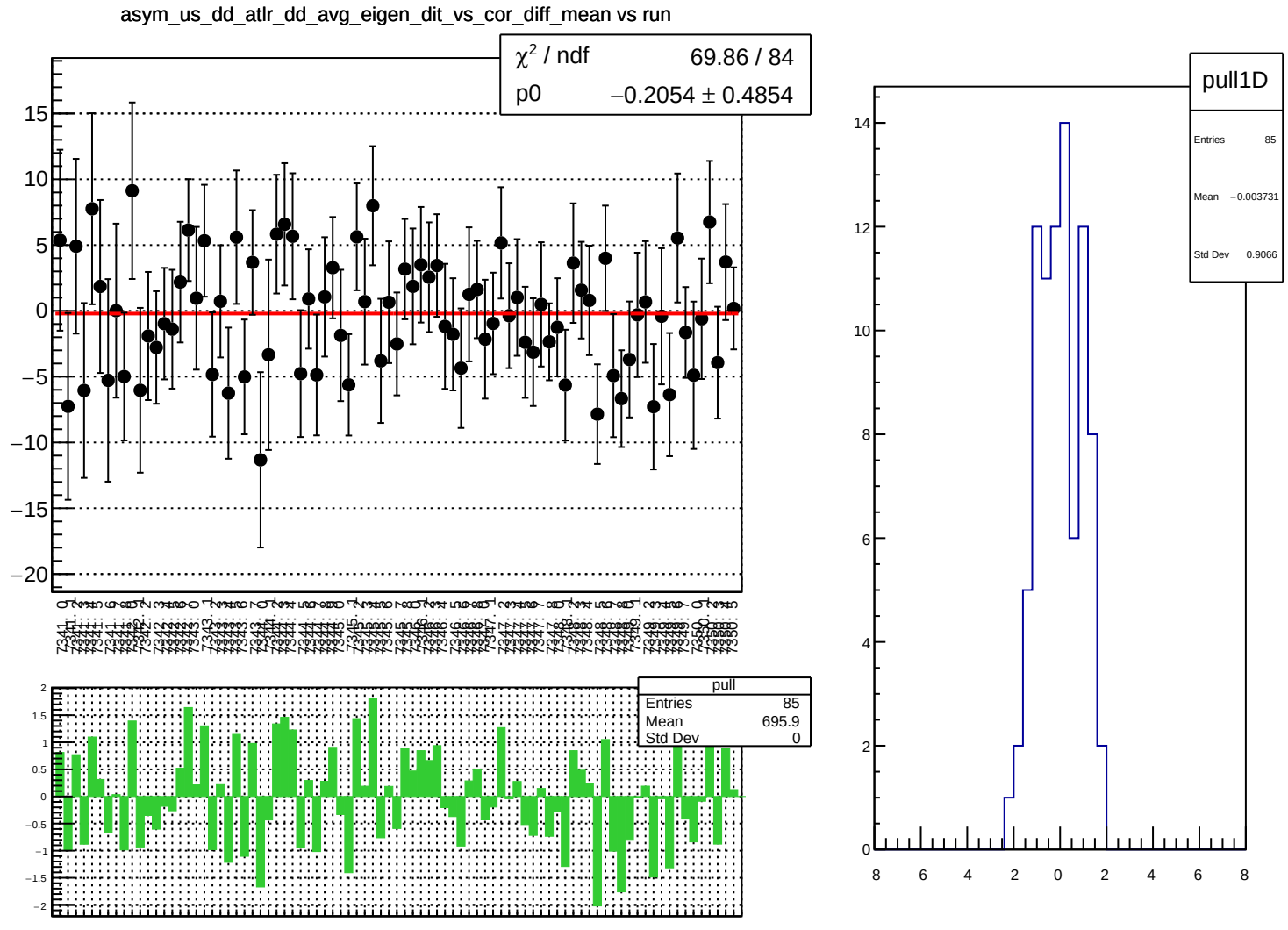

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.86 / 84
p0 −0.2054 ± 0.4854
pull
Entries 85
Mean 695.9
Std Dev 0

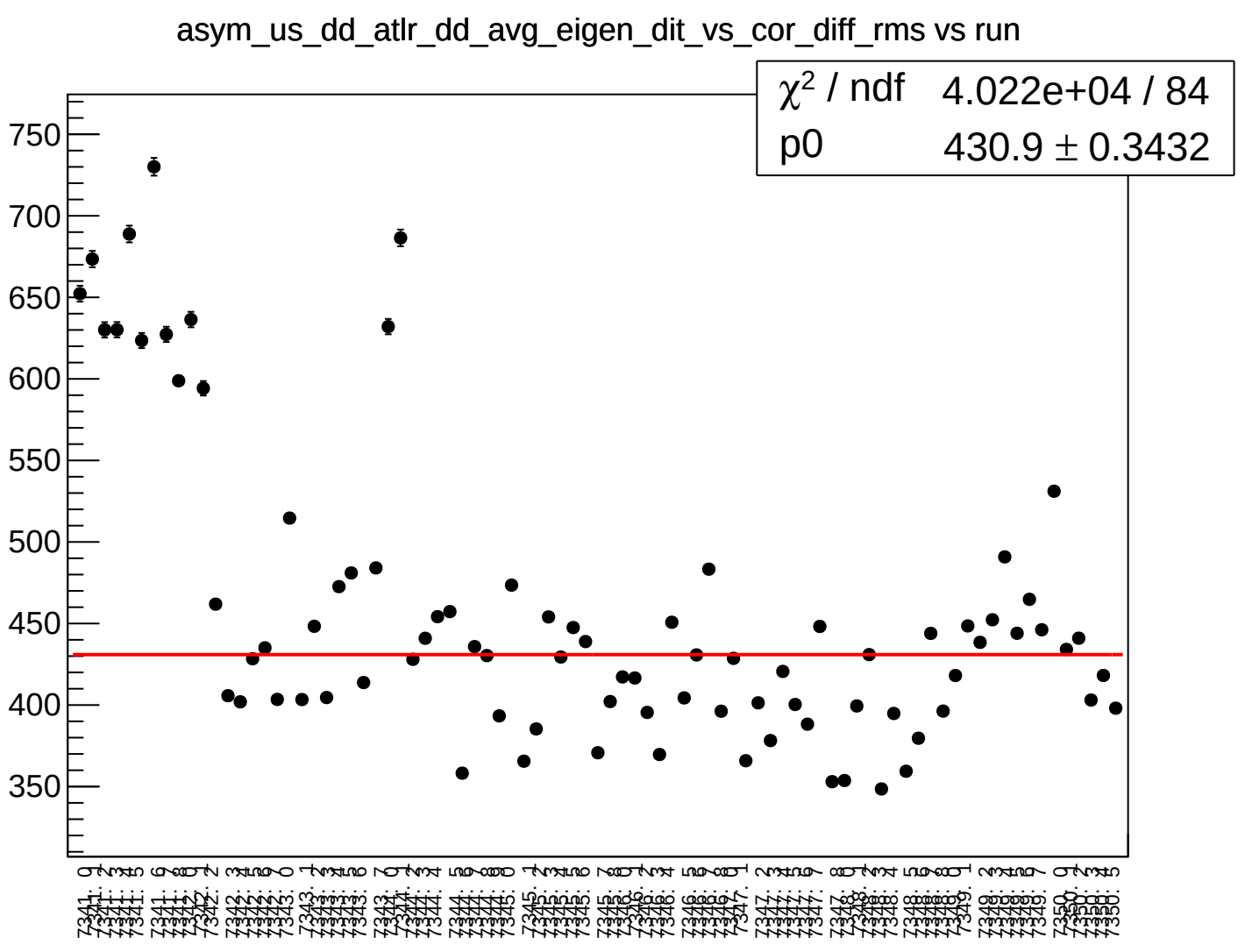

pull1D
Entries 85
Mean −0.003731
Std Dev 0.9066

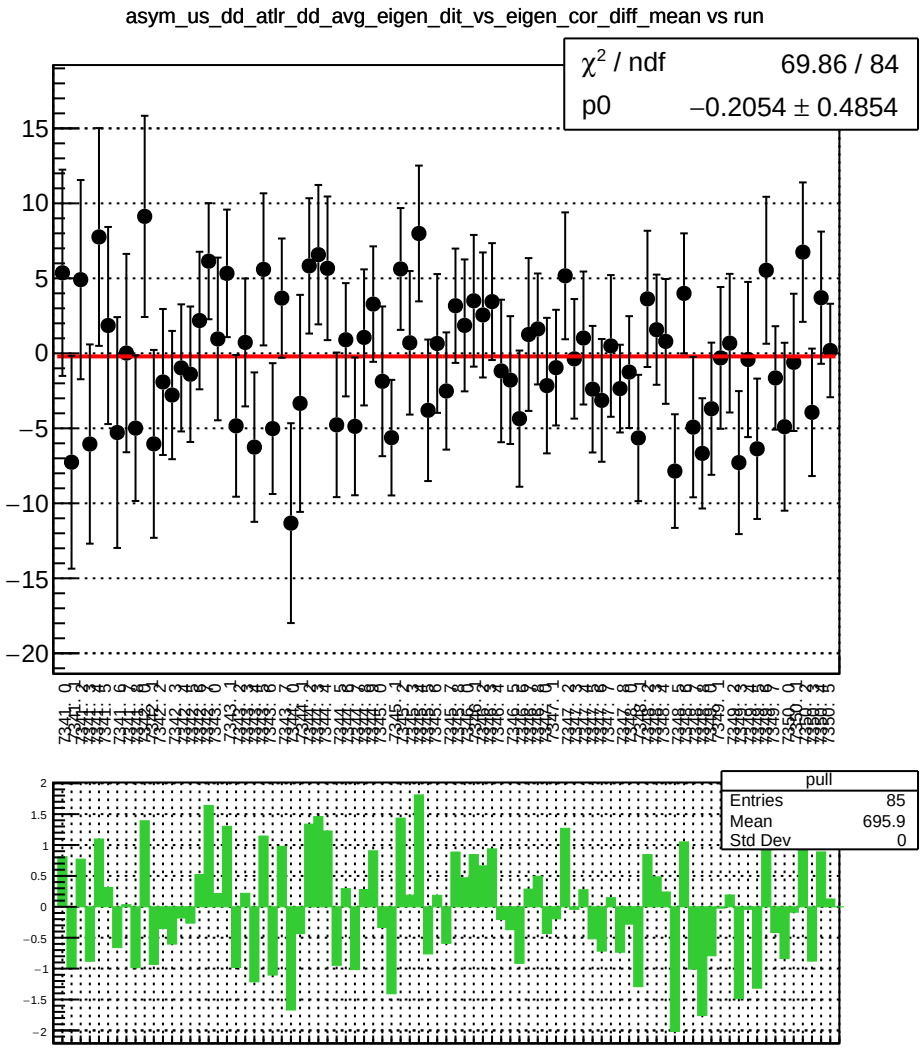

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.022e+04 / 84
p0 430.9 ± 0.3432
750
700
650
600
550
500
450
400
350

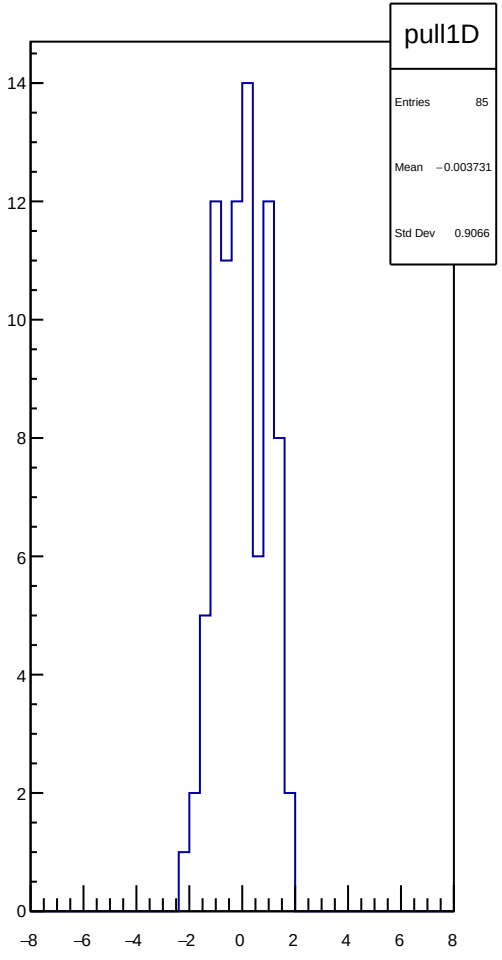

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.14 / 84
p0 4.207e−06 ± 7.489e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 85
Mean −213.9
Std Dev 0
pull1D
Entries 85
Mean −0.008271
Std Dev 0.977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

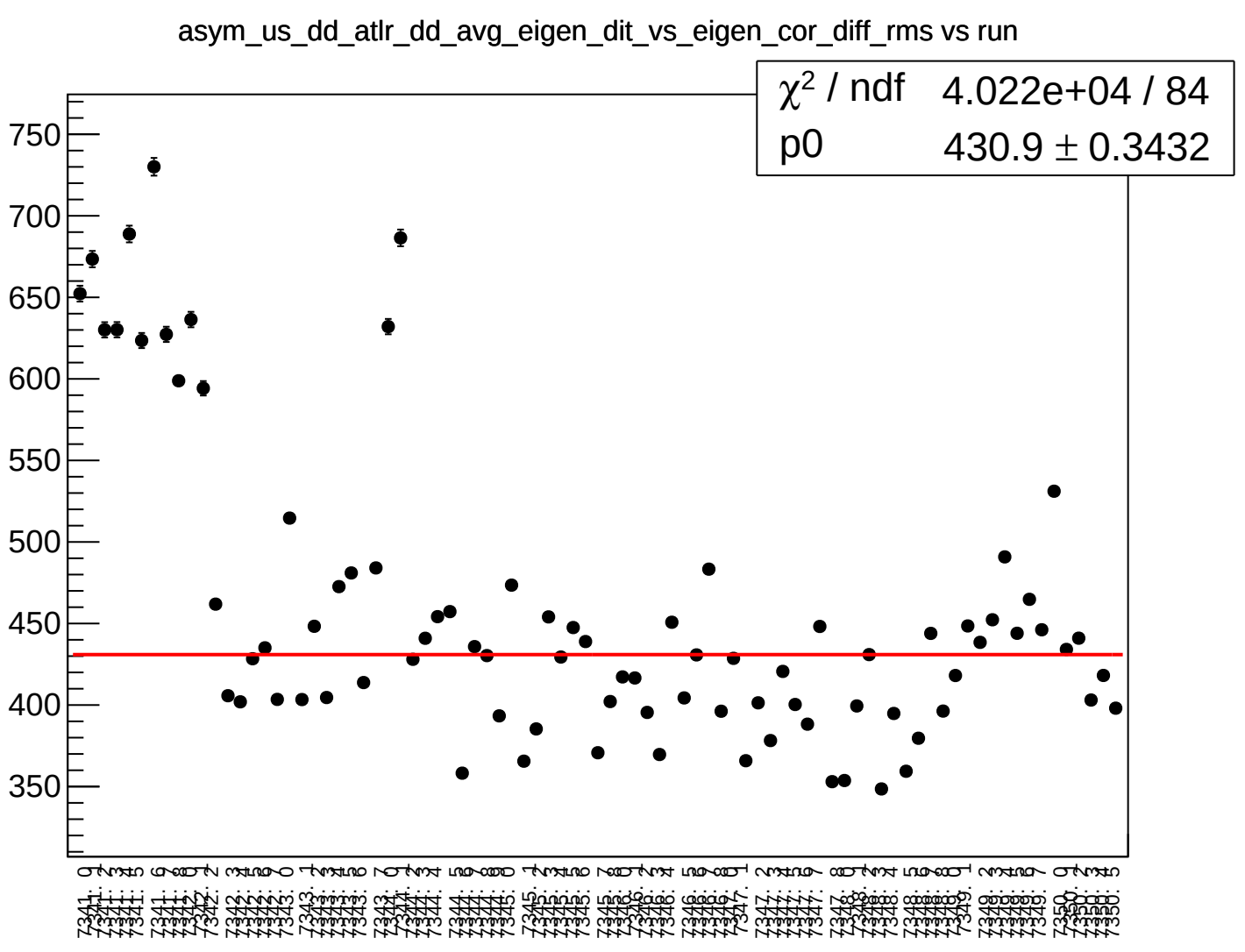

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5038 / 84
p0 0.006722 ± 5.295e−06
0.008
0.0075
0.007
0.0065
0.006

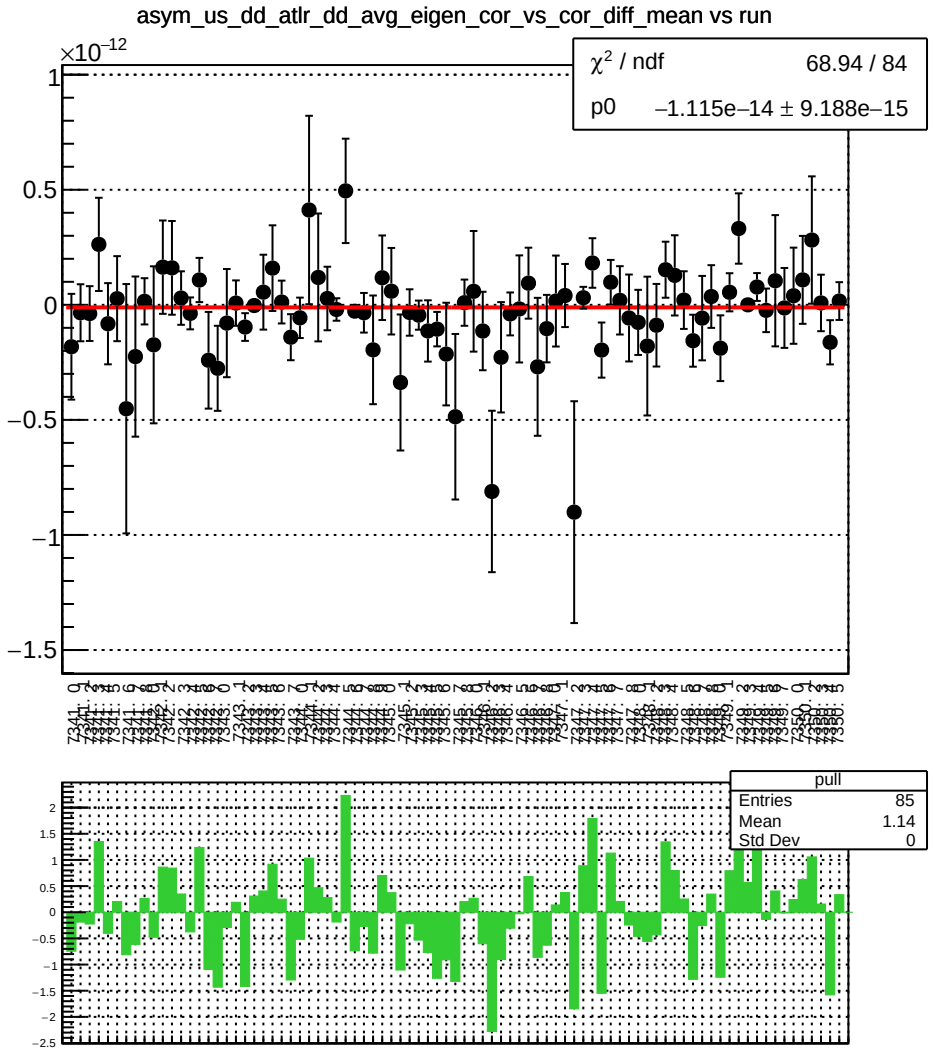

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.86 / 84
p0 −0.2054 ± 0.4854
pull
Entries 85
Mean 695.9
Std Dev 0
pull1D
Entries 85
Mean −0.003731
Std Dev 0.9066

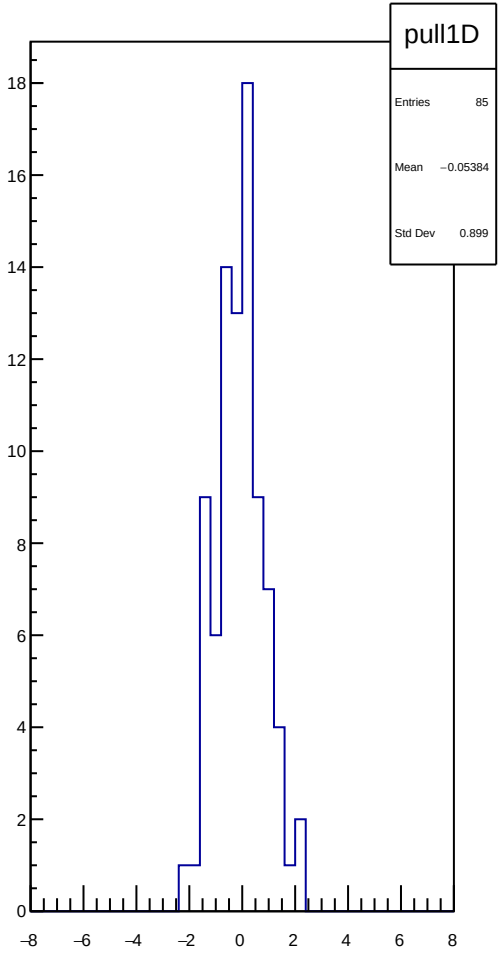

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.022e+04 / 84
p0 430.9 ± 0.3432
750
700
650
600
550
500
450
400
350

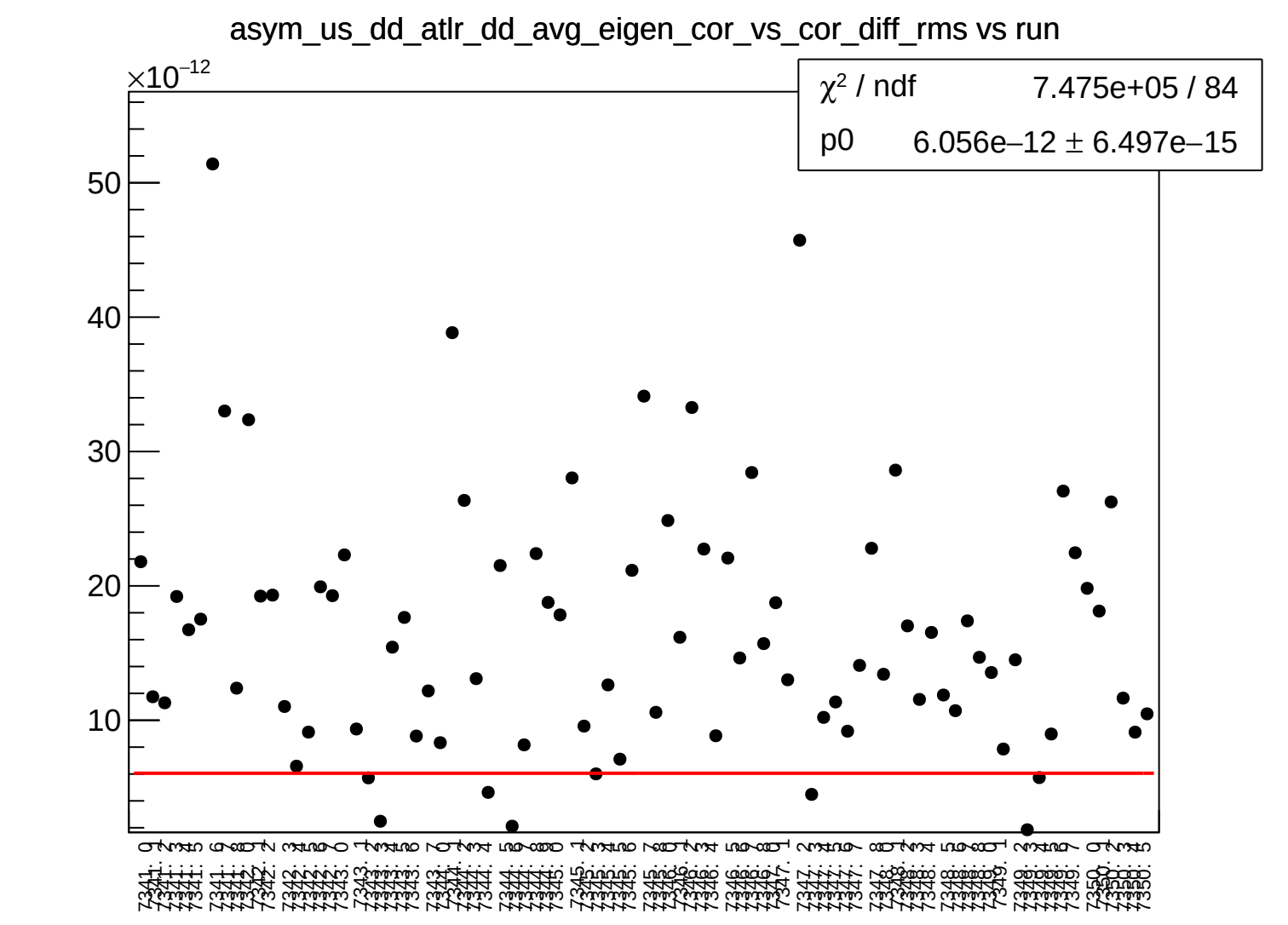

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.86 / 84
p0 −0.2054 ± 0.4854
pull
Entries 85
Mean 695.9
Std Dev 0

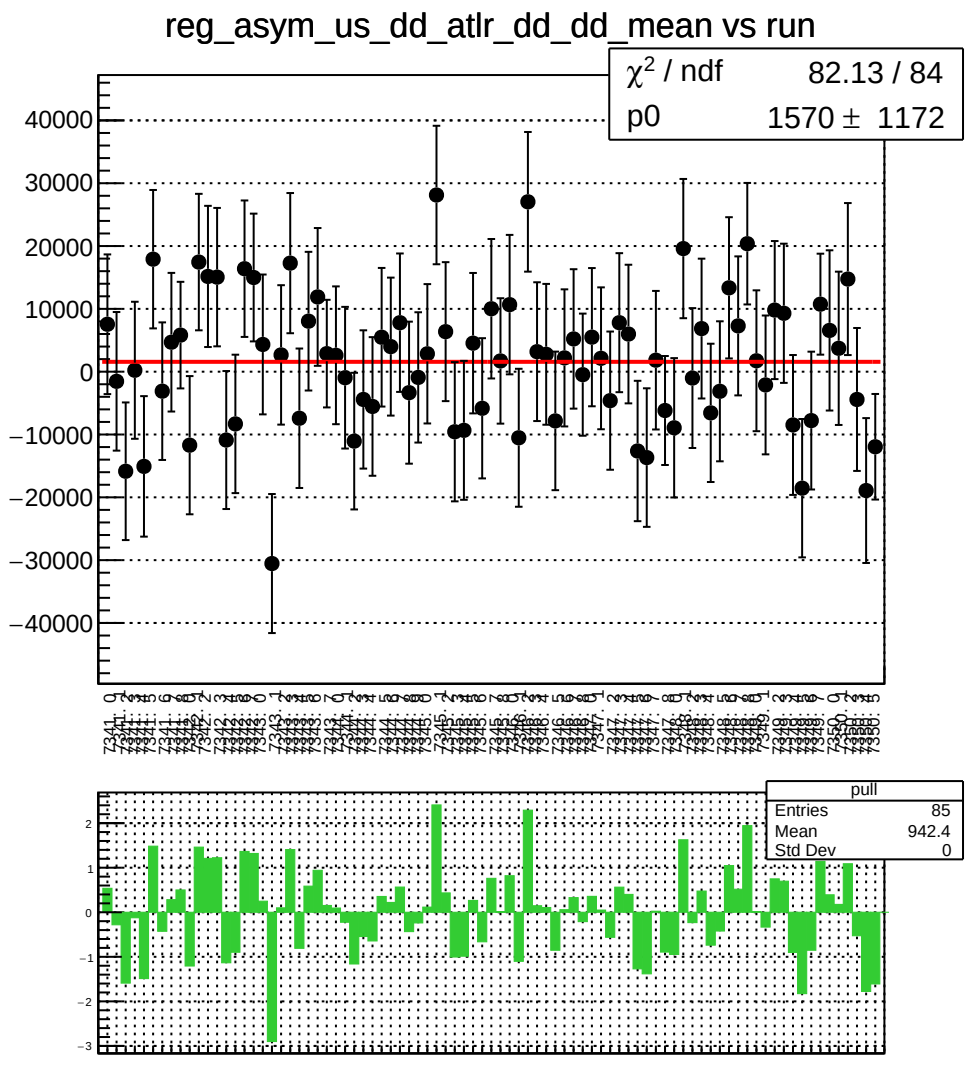

pull1D
Entries 85
Mean −0.003731
Std Dev 0.9066

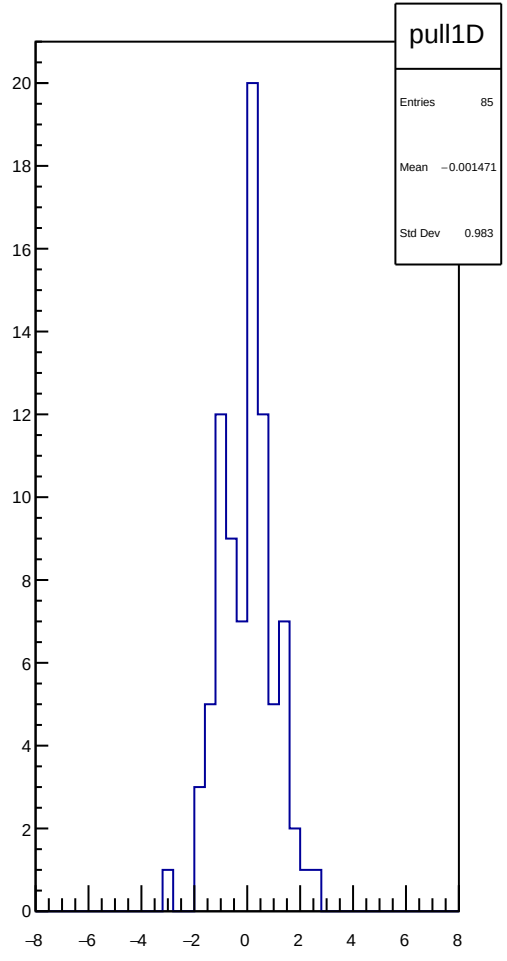

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.022e+04 / 84
p0 430.9 ± 0.3432
750
700
650
600
550
500
450
400
350

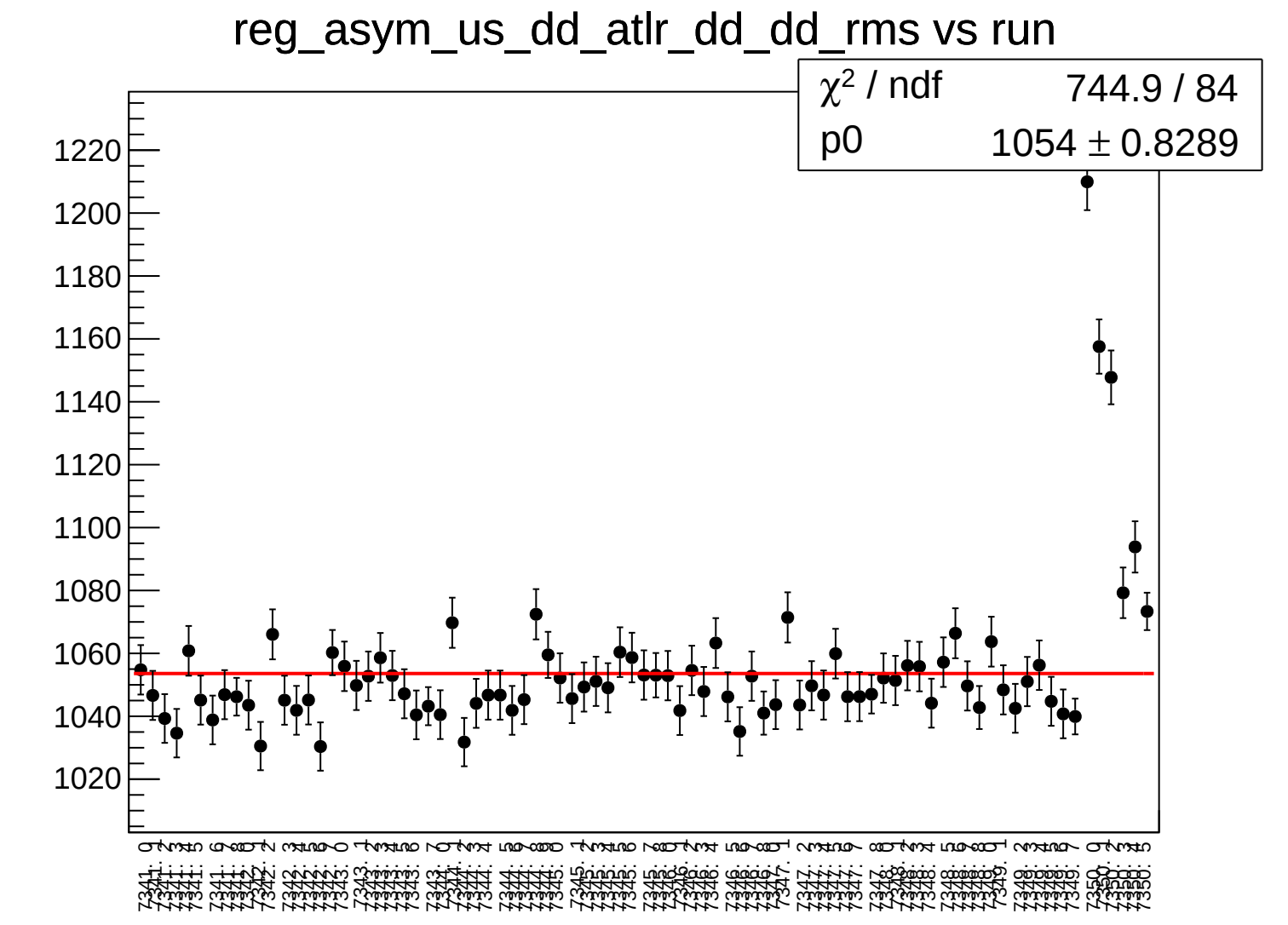

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 68.94 / 84
p0 −1.115e−14 ± 9.188e−15
pull
Entries 85
Mean 1.14
Std Dev 0

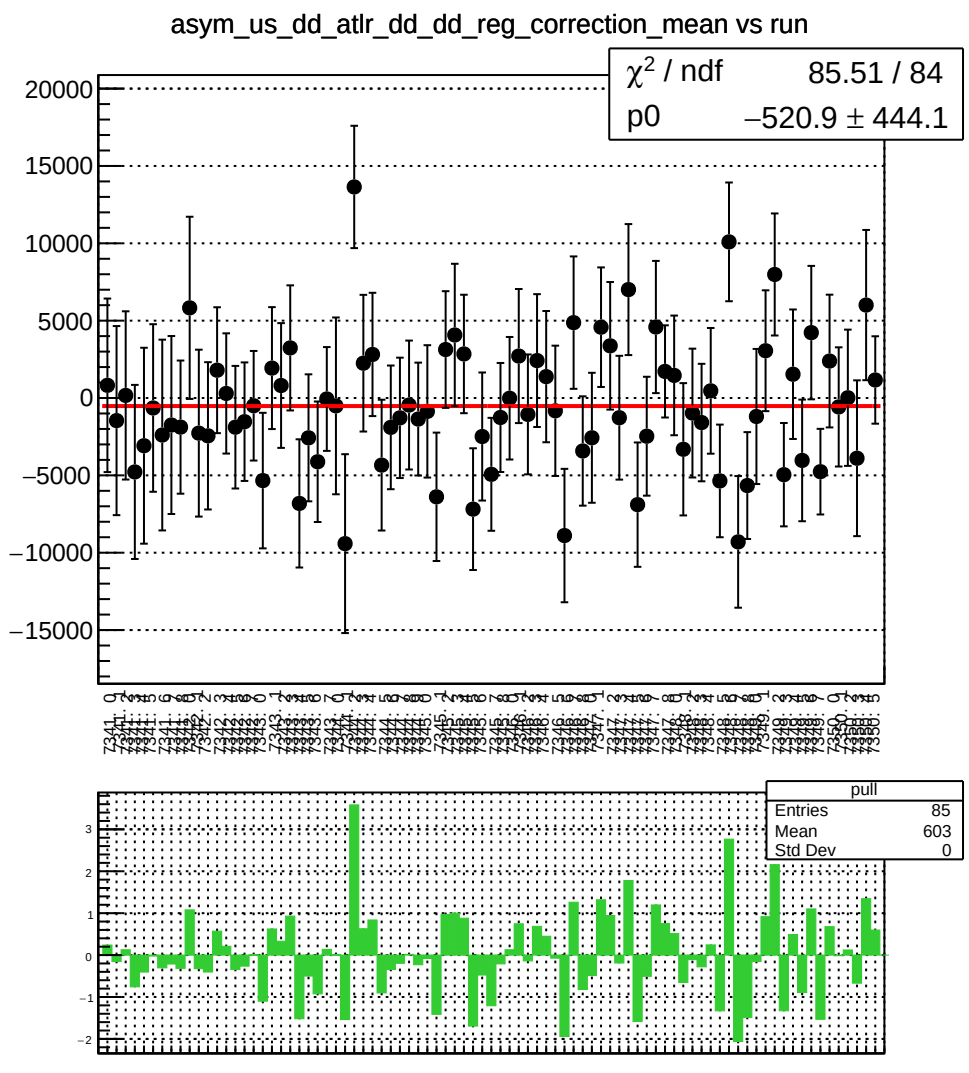

pull1D
Entries 85
Mean −0.05384
Std Dev 0.899

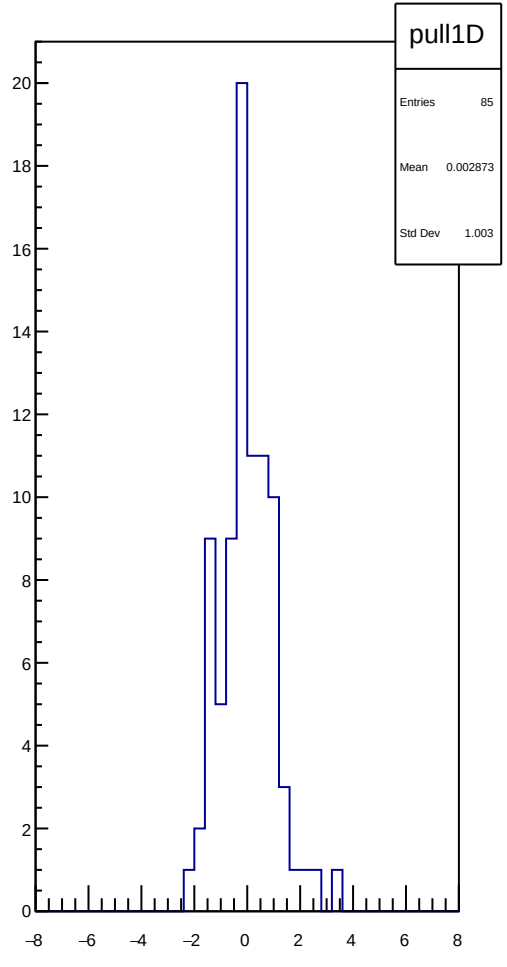

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.475e+05 / 84
p0 6.056e−12 ± 6.497e−15
50
40
30
20
10

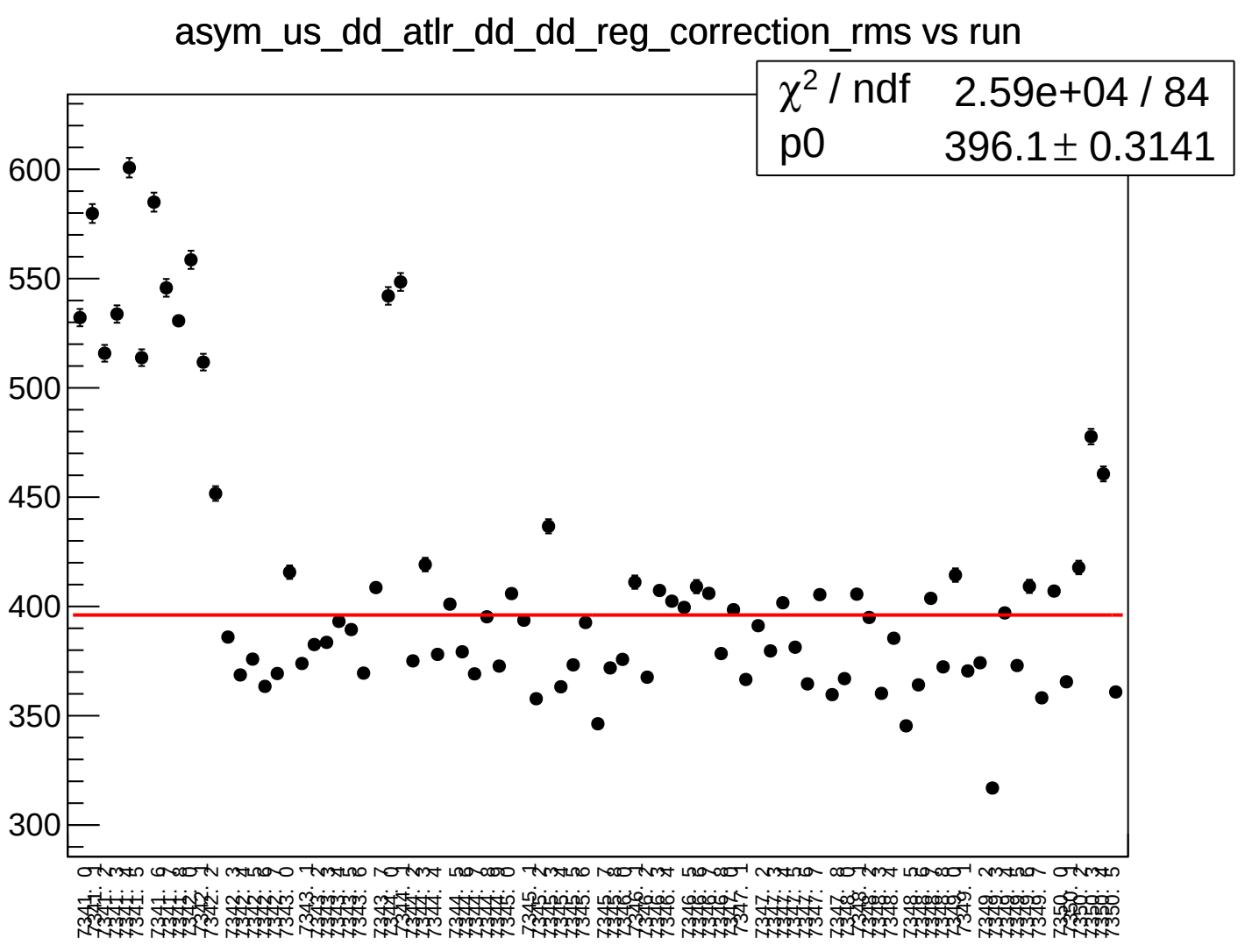

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 82.13 / 84
p0 1570 ± 1172
pull
Entries 85
Mean 942.4
Std Dev 0

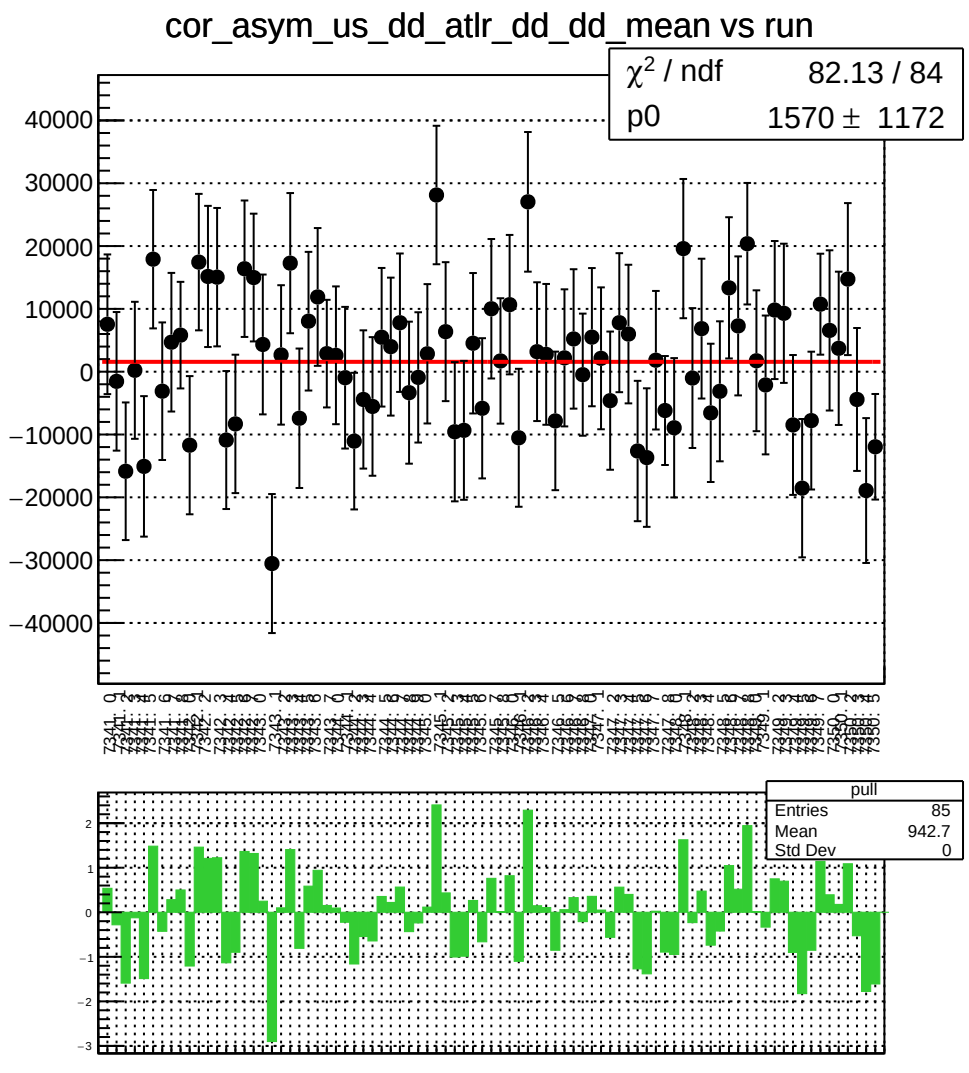

pull1D
Entries 85
Mean −0.001471
Std Dev 0.983

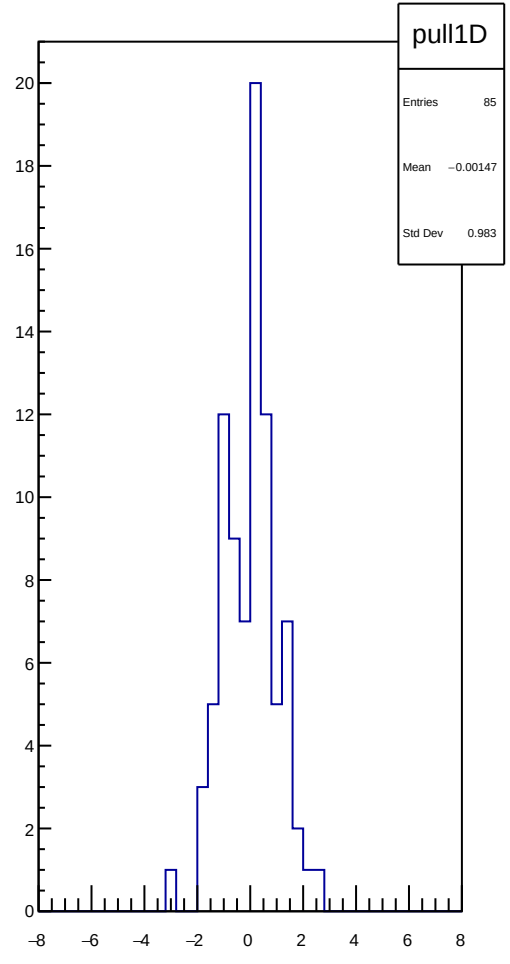

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 744.9 / 84
p0 1054 ± 0.8289
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

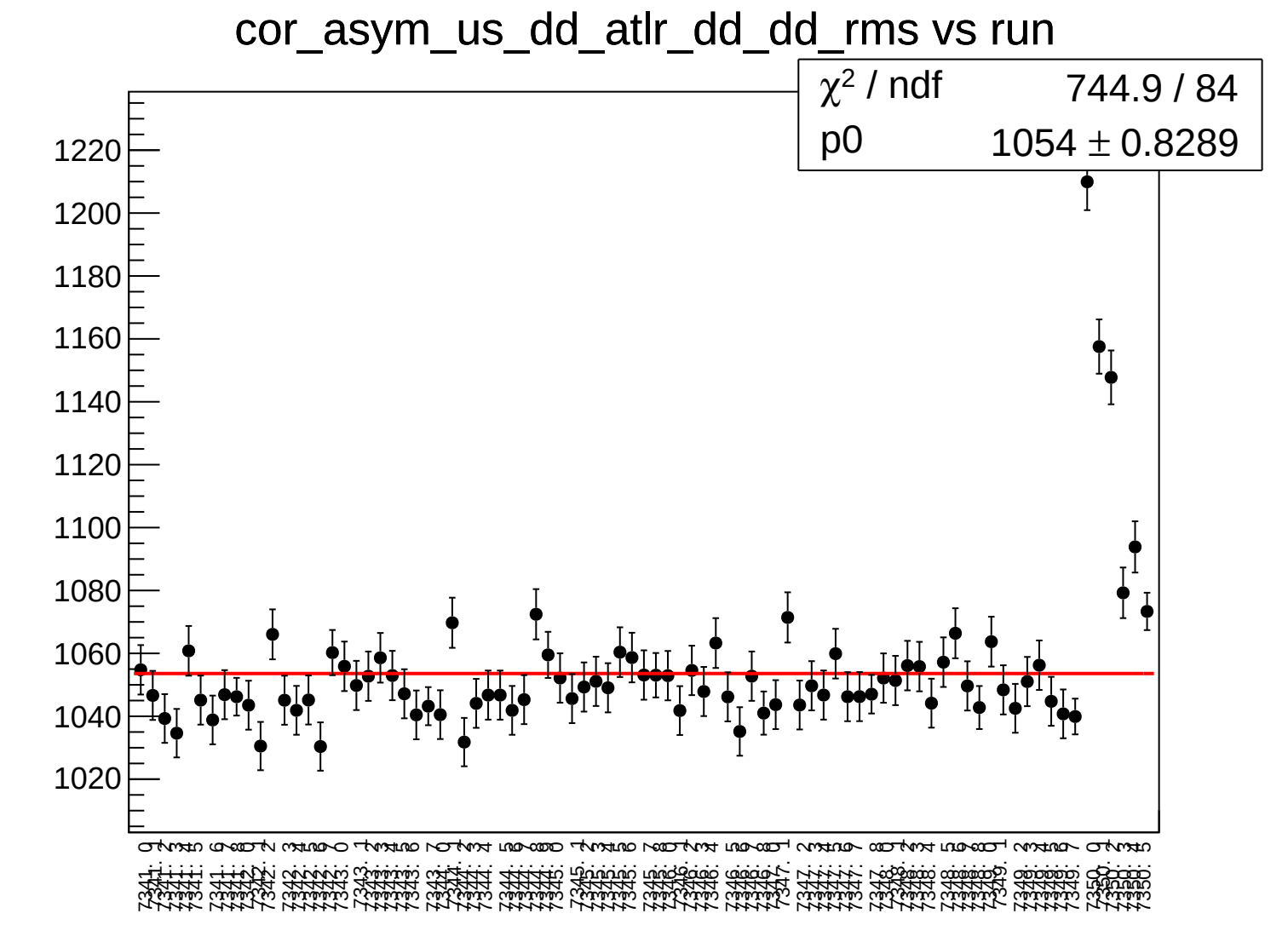

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 85.51 / 84
p0 −520.9 ± 444.1
pull
Entries 85
Mean 603
Std Dev 0

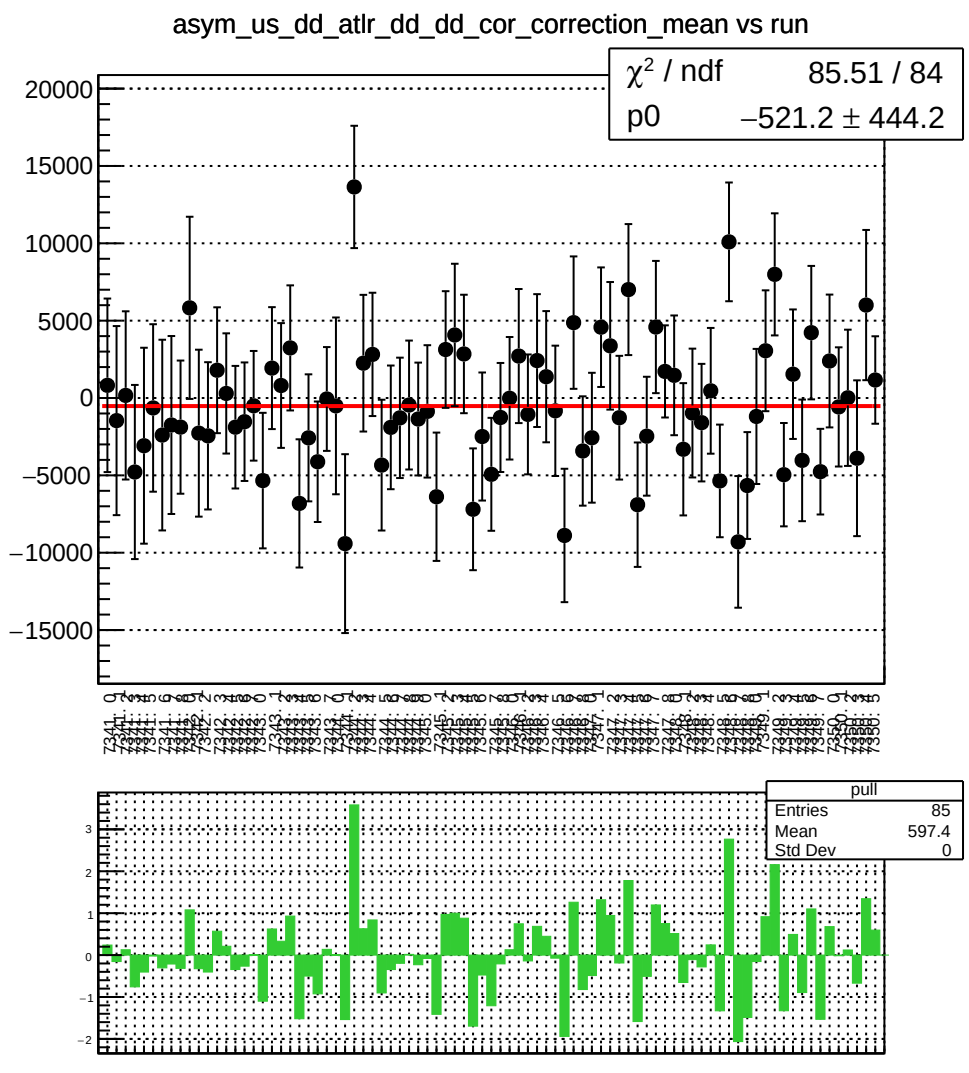

pull1D
Entries 85
Mean 0.002873
Std Dev 1.003

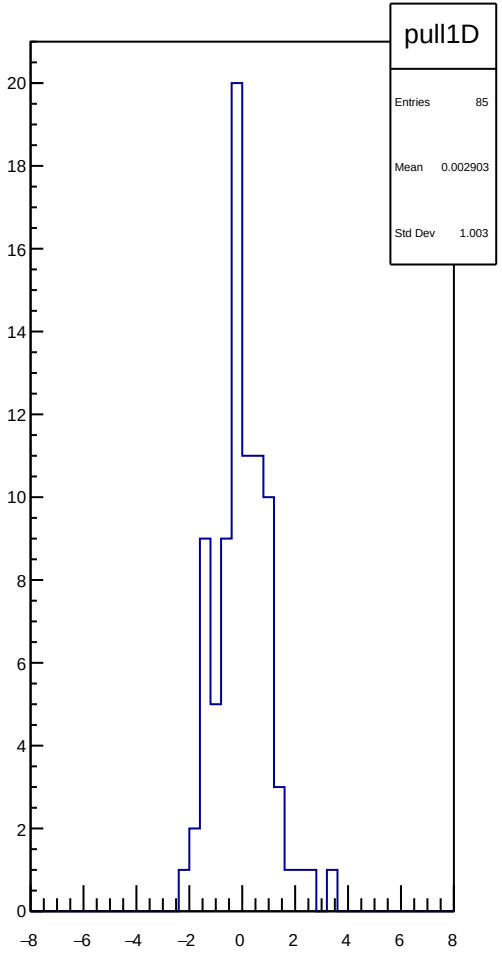

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.59e+04 / 84
p0 396.1 ± 0.3141
600
550
500
450
400
350
300

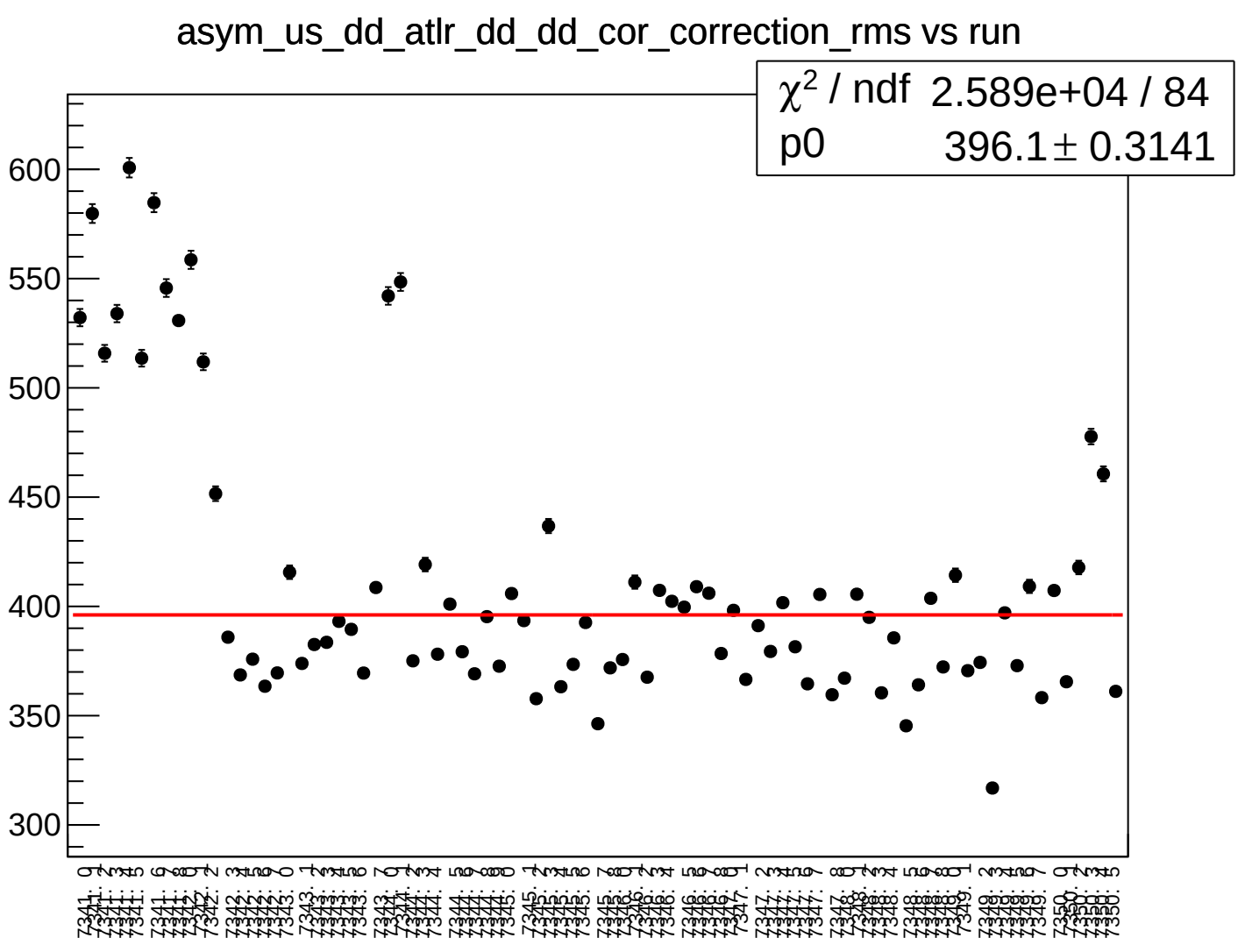

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 82.13 / 84
p0 1570 ± 1172
pull
Entries 85
Mean 942.7
Std Dev 0

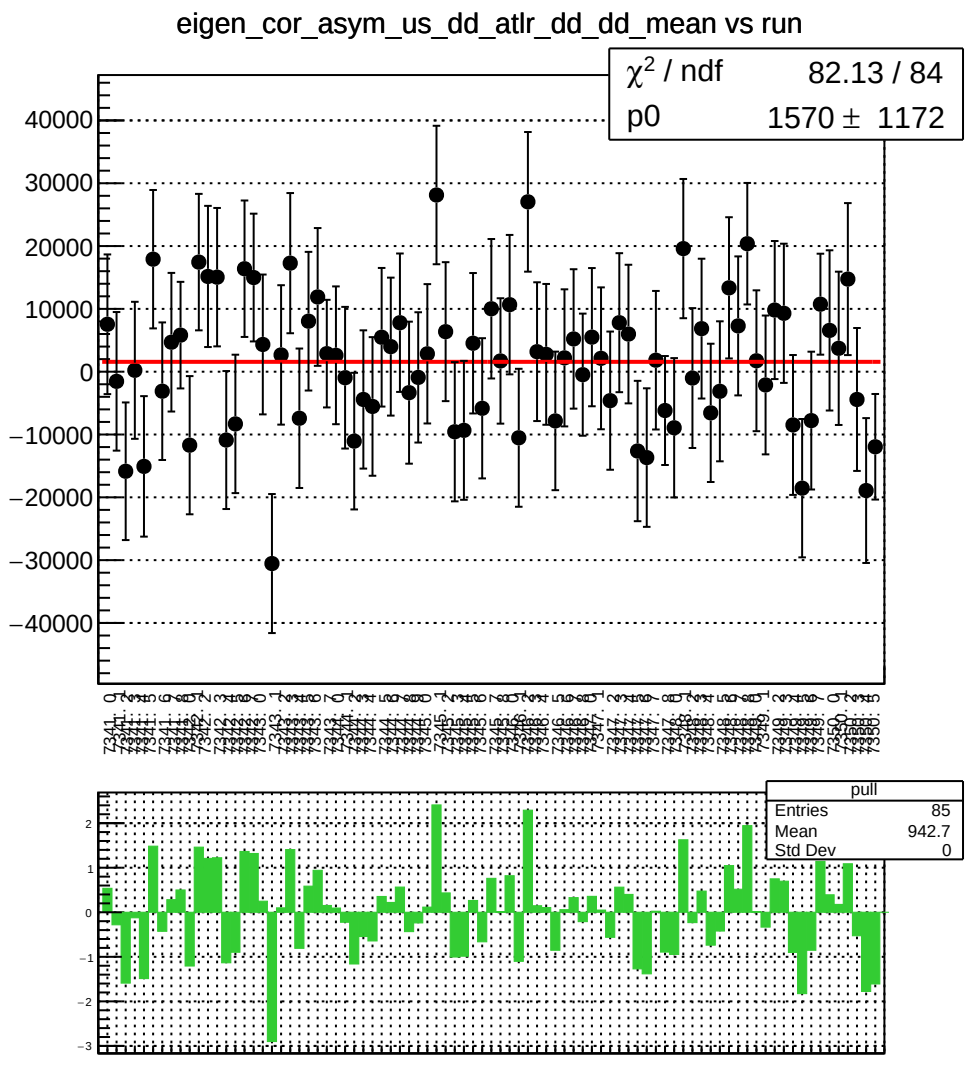

pull1D
Entries 85
Mean −0.00147
Std Dev 0.983

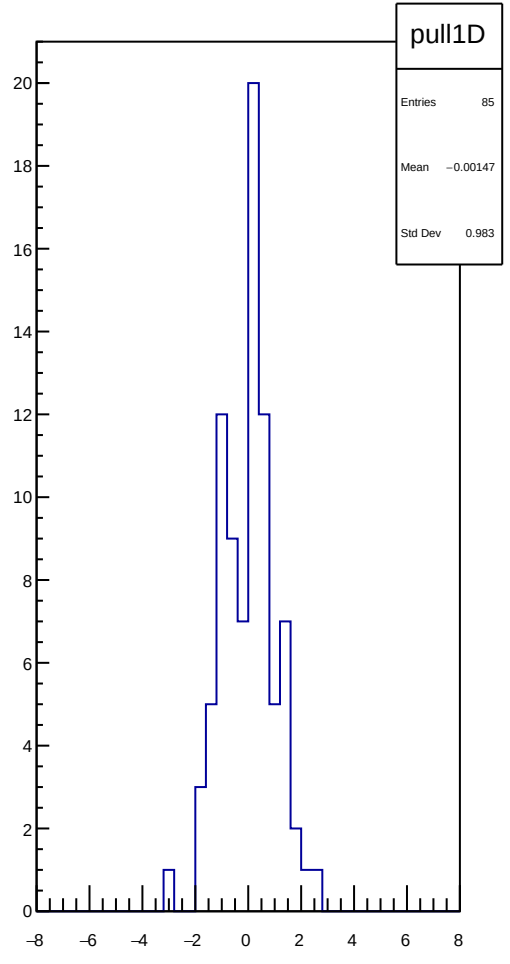

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 744.9 / 84
p0 1054 ± 0.8289
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

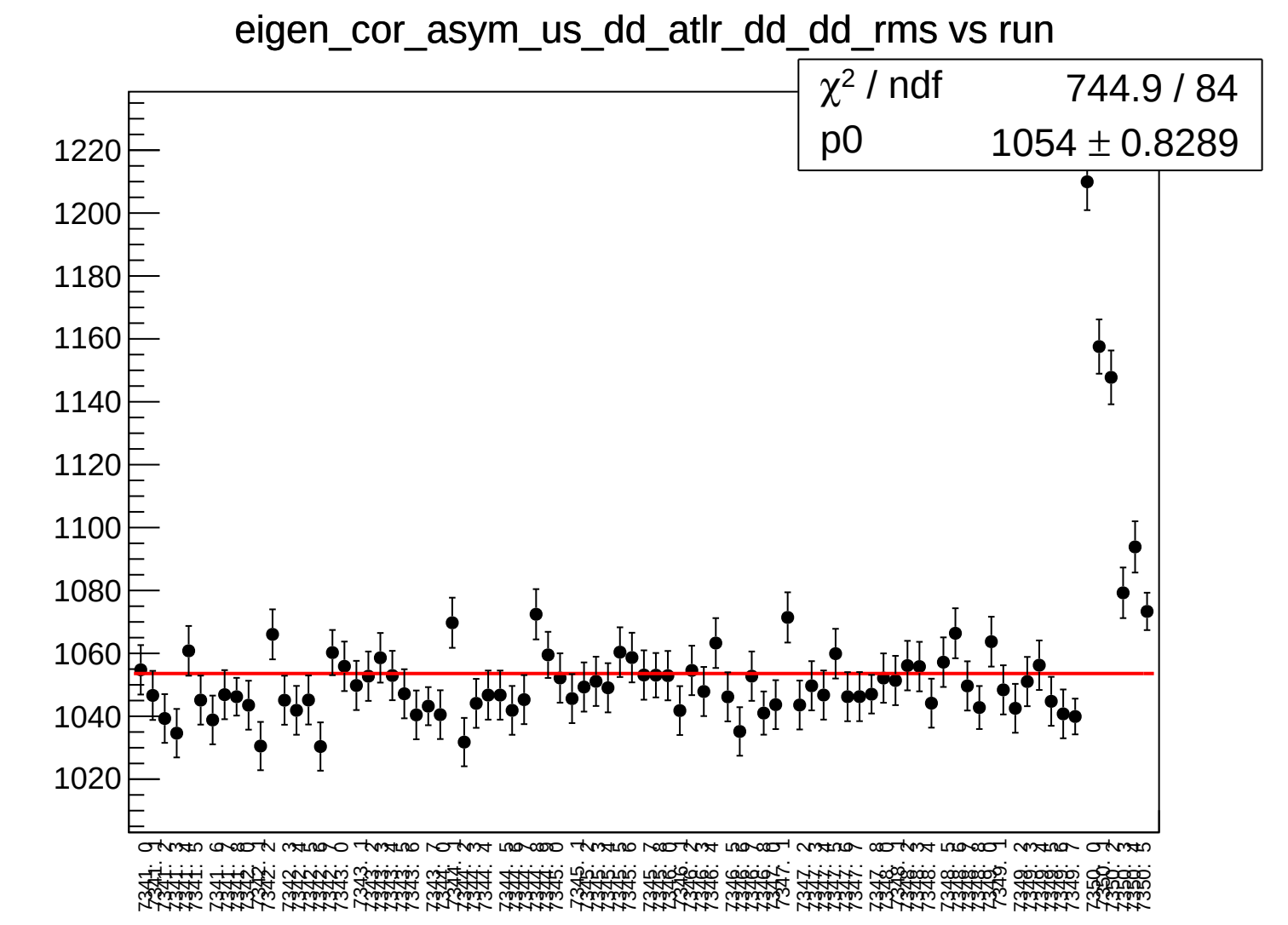

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 85.51 / 84
p0 −521.2 ± 444.2
pull
Entries 85
Mean 597.4
Std Dev 0

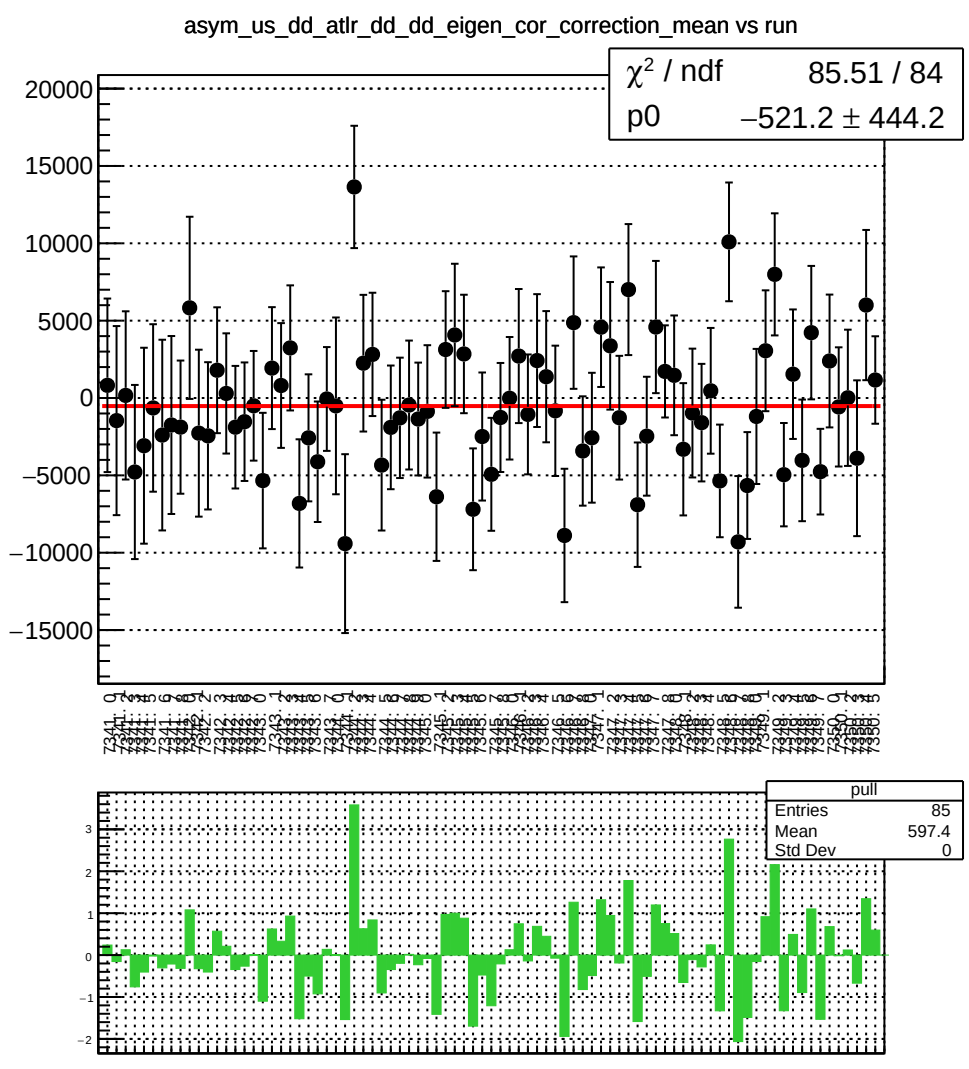

pull1D
Entries 85
Mean 0.002903
Std Dev 1.003

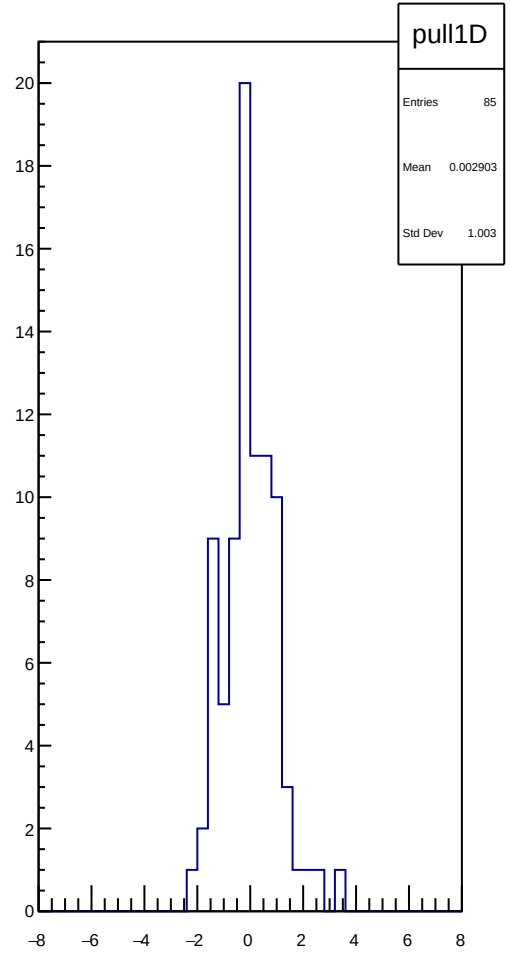

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.589e+04 / 84
p0 396.1 ± 0.3141
600
550
500
450
400
350
300

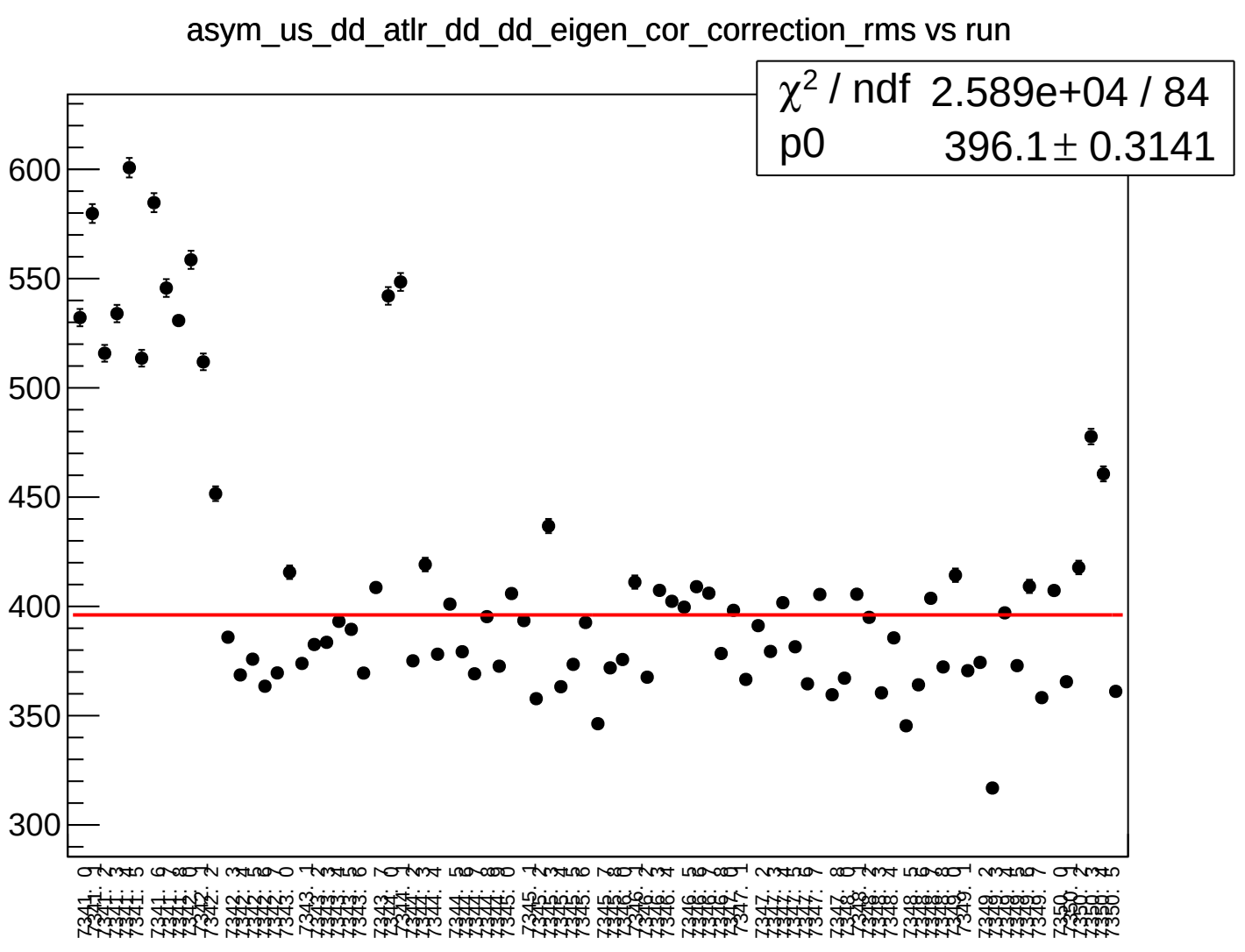

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 82.13 / 84
p0 1570 ± 1172
pull
Entries 85
Mean 942.7
Std Dev 0

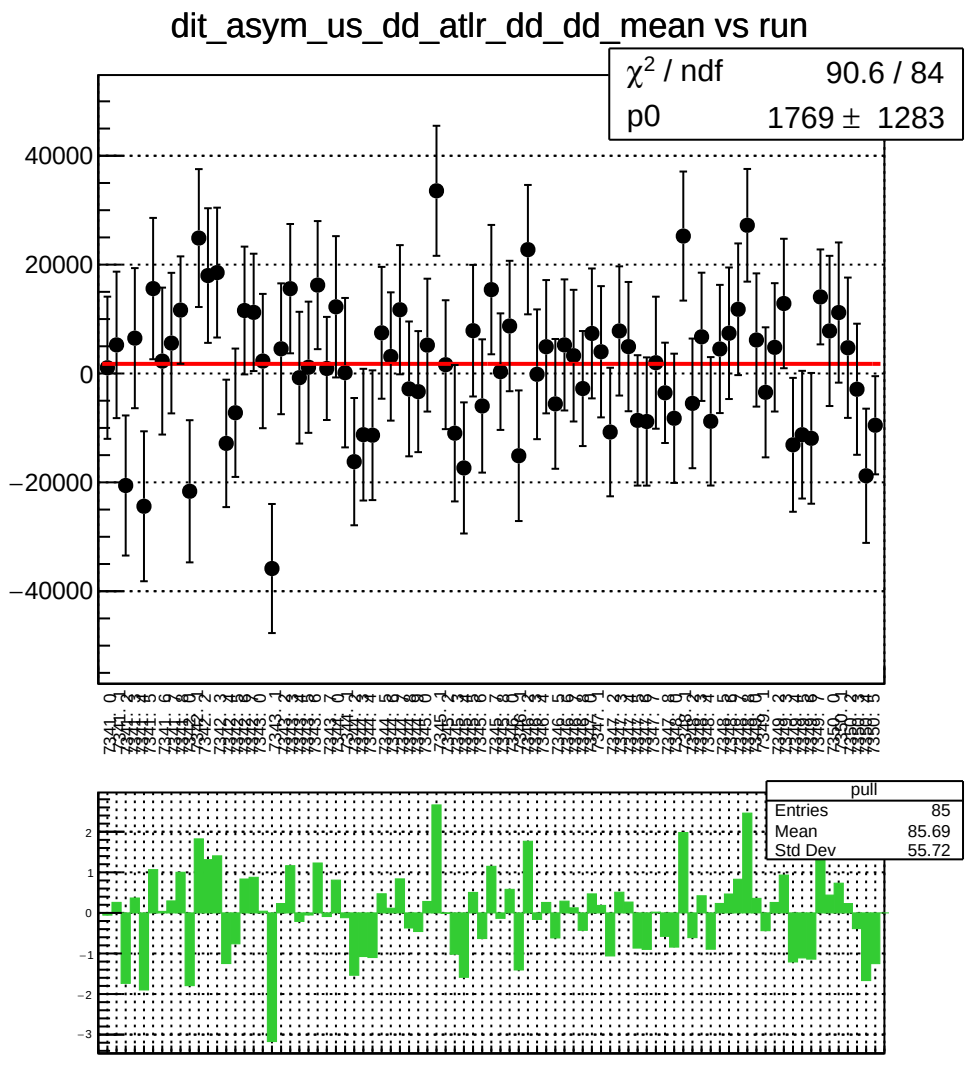

pull1D
Entries 85
Mean −0.00147
Std Dev 0.983

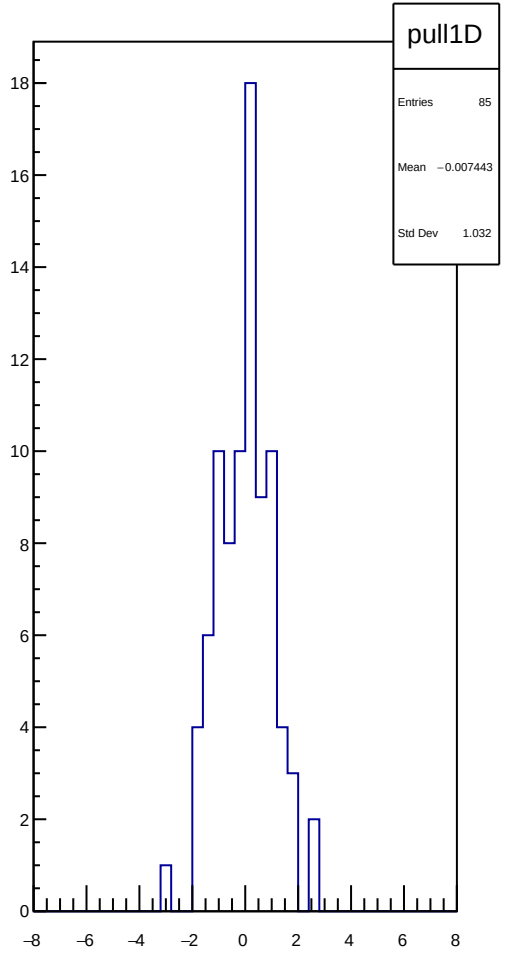

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 744.9 / 84
p0 1054 ± 0.8289
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

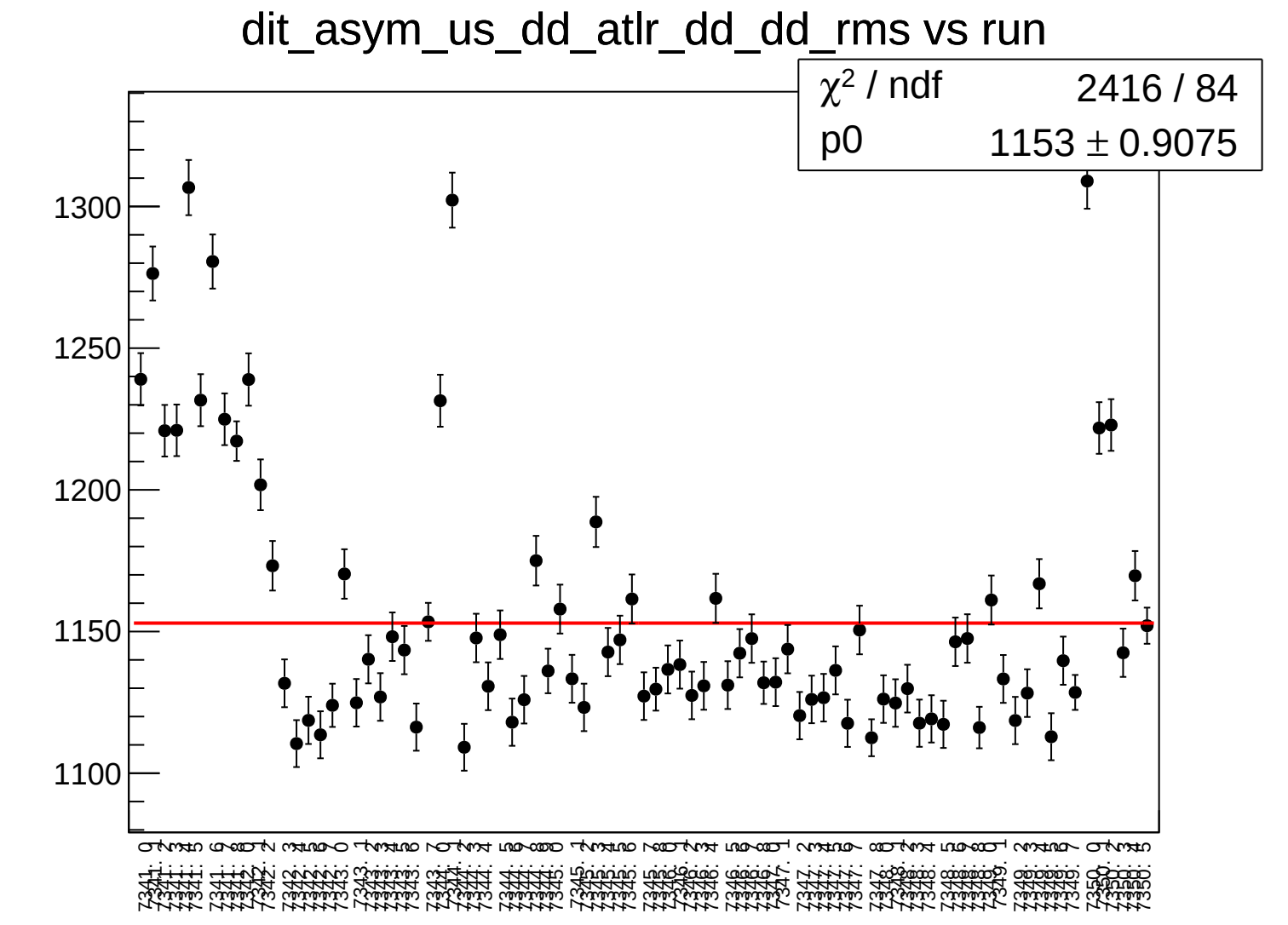

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.51 / 84
p0 −521.2 ± 444.2
pull
Entries 85
Mean 597.4
Std Dev 0

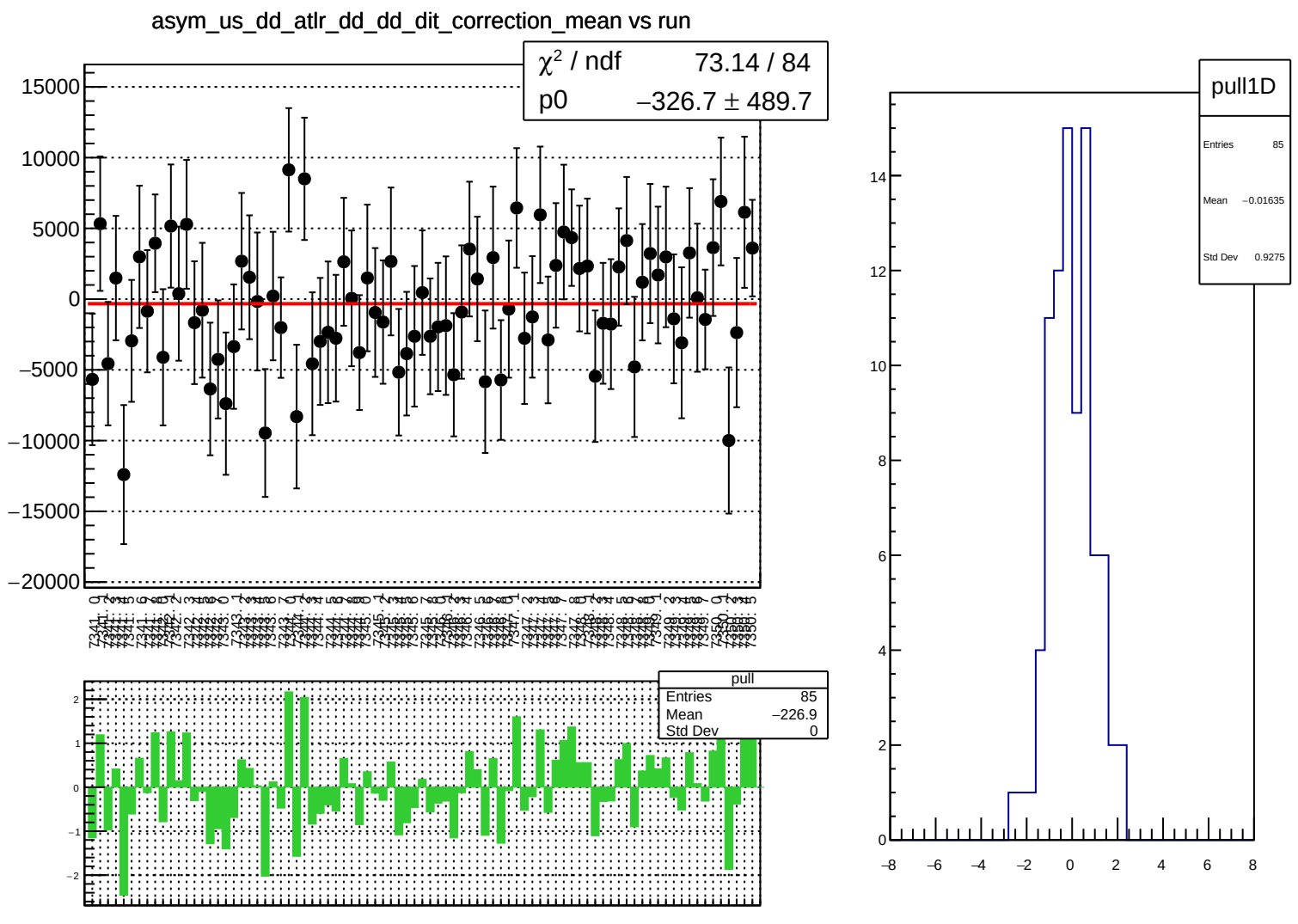

pull1D
Entries 85
Mean 0.002903
Std Dev 1.003

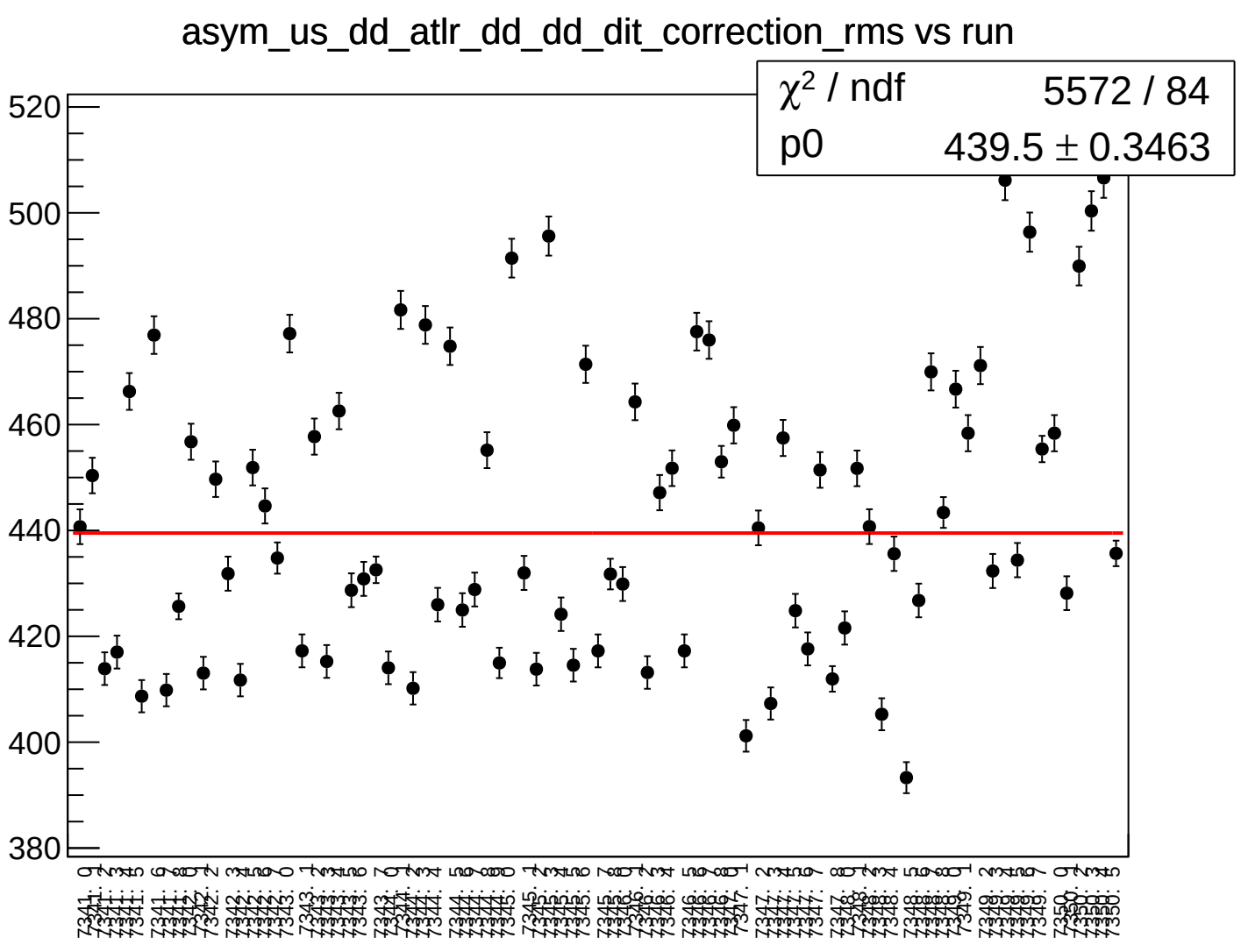

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.589e+04 / 84
p0 396.1 ± 0.3141
600
550
500
450
400
350
300

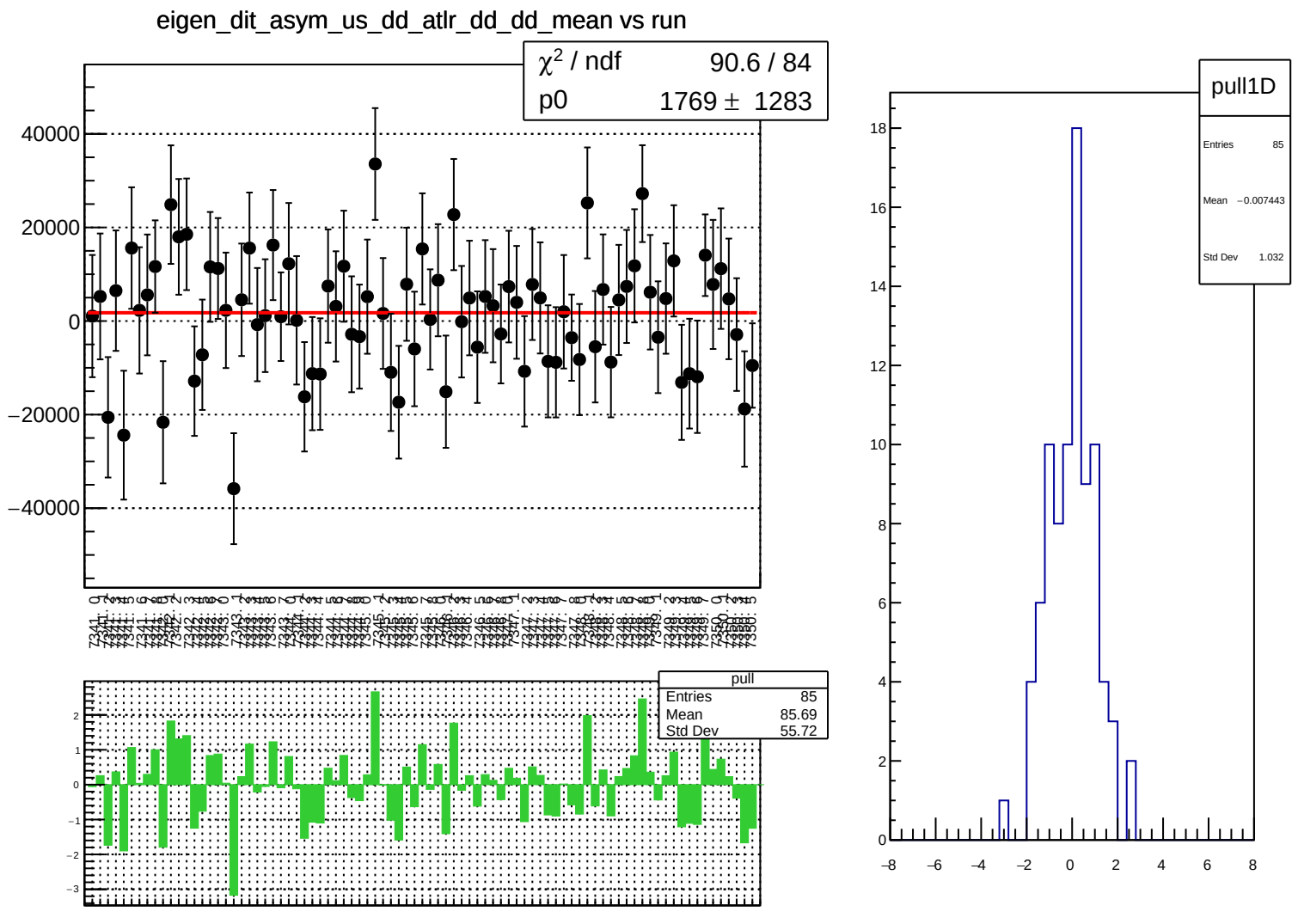

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.6 / 84
p0 1769 ± 1283
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 85.69
Std Dev 55.72
2
1
0
−1
−2
−3

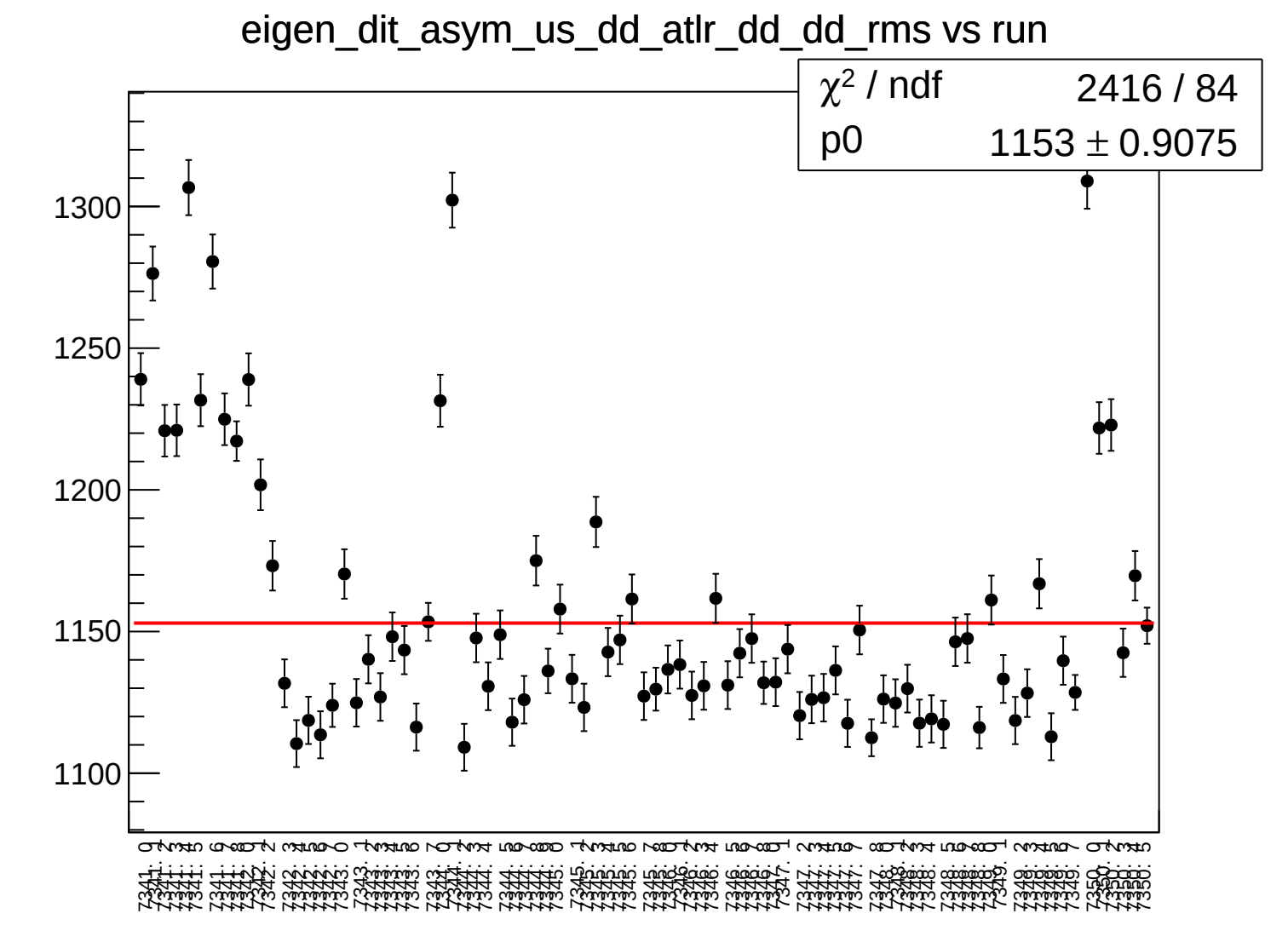

pull1D
Entries 85
Mean −0.007443
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

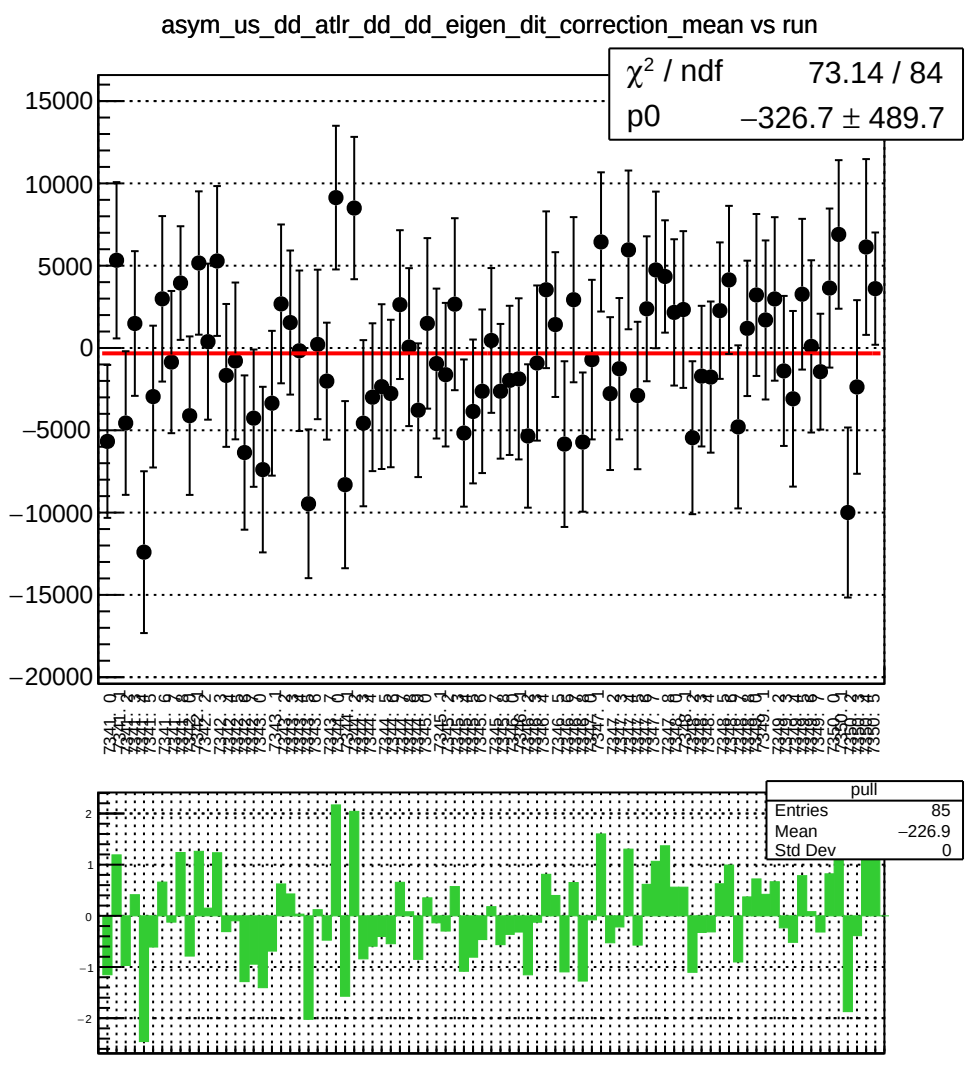

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 2416 / 84
p0 1153 ± 0.9075
1300
1250
1200
1150
1100

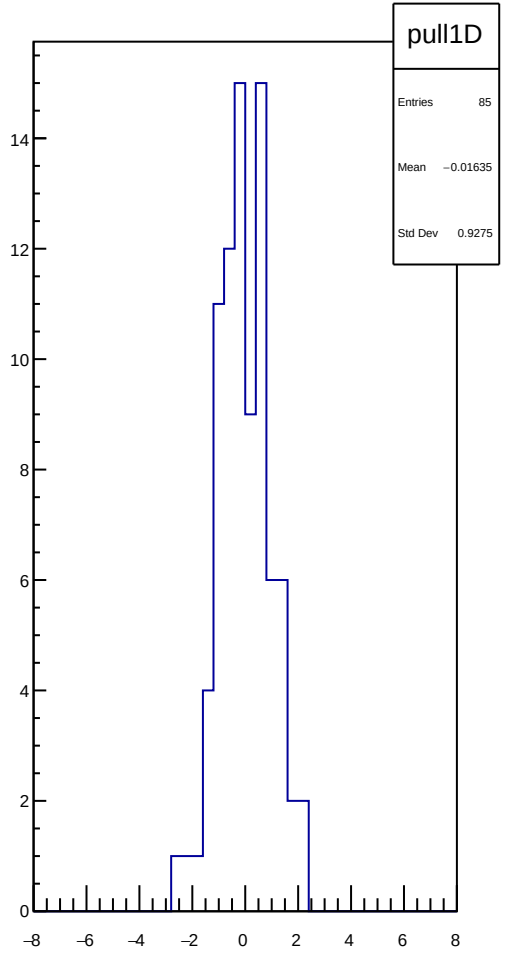

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 73.14 / 84
p0 −326.7 ± 489.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean −226.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01635
Std Dev 0.9275
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

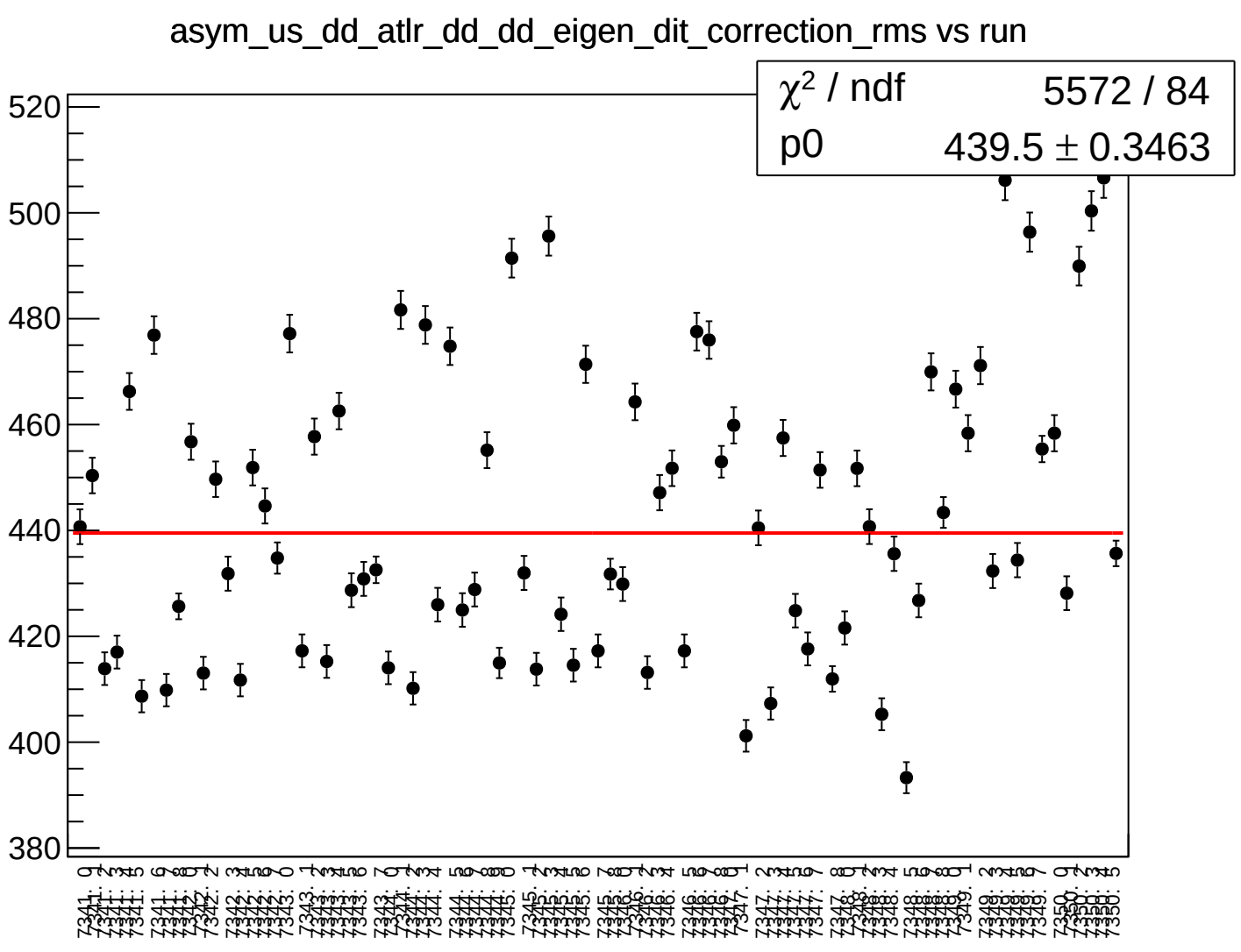

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 5572 / 84
p0 439.5 ± 0.3463
520
500
480
460
440
420
400
380

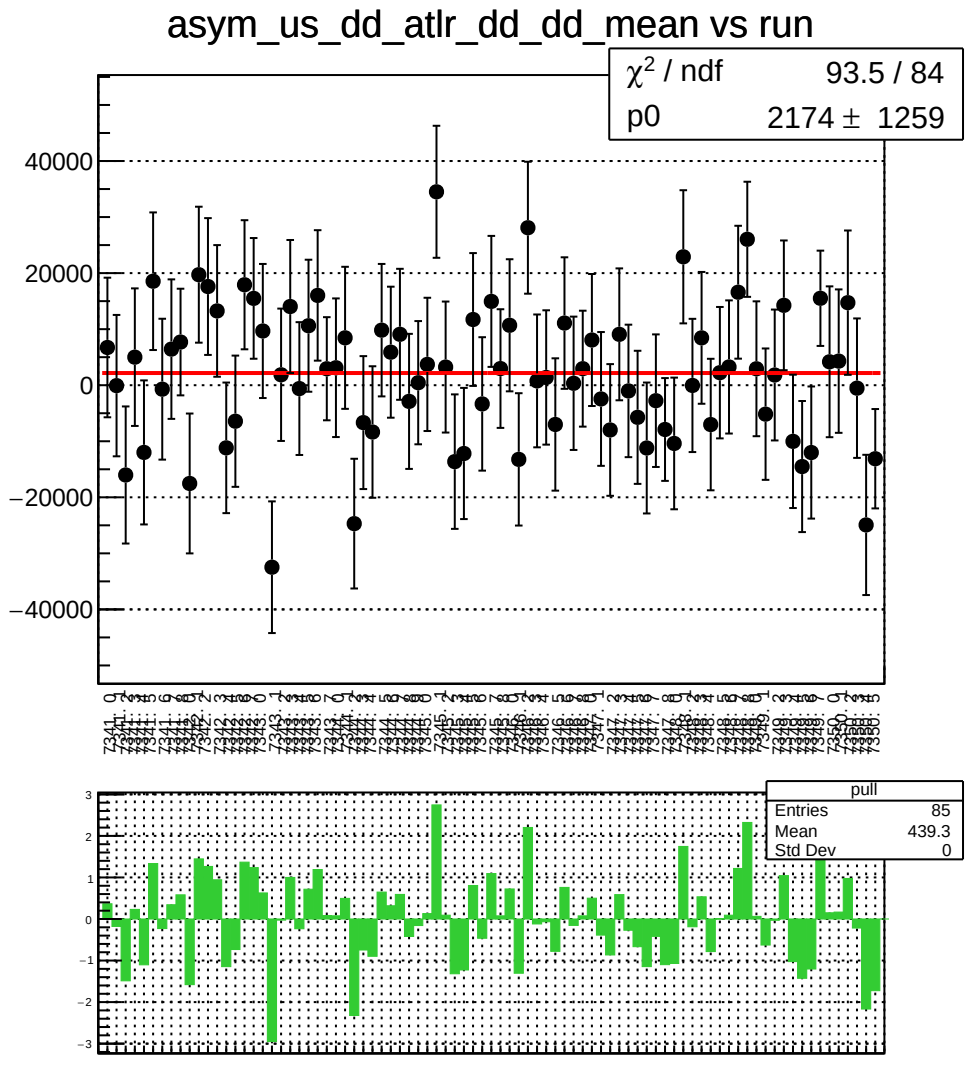

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.6 / 84
p0 1769 ± 1283
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 85.69
Std Dev 55.72
pull1D
Entries 85
Mean −0.007443
Std Dev 1.032

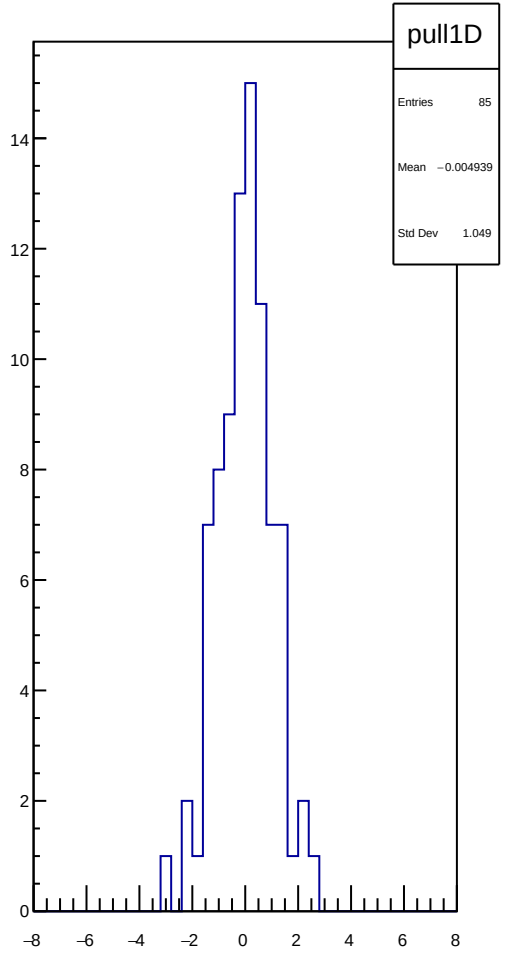

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 2416 / 84
p0 1153 ± 0.9075
1300
1250
1200
1150
1100

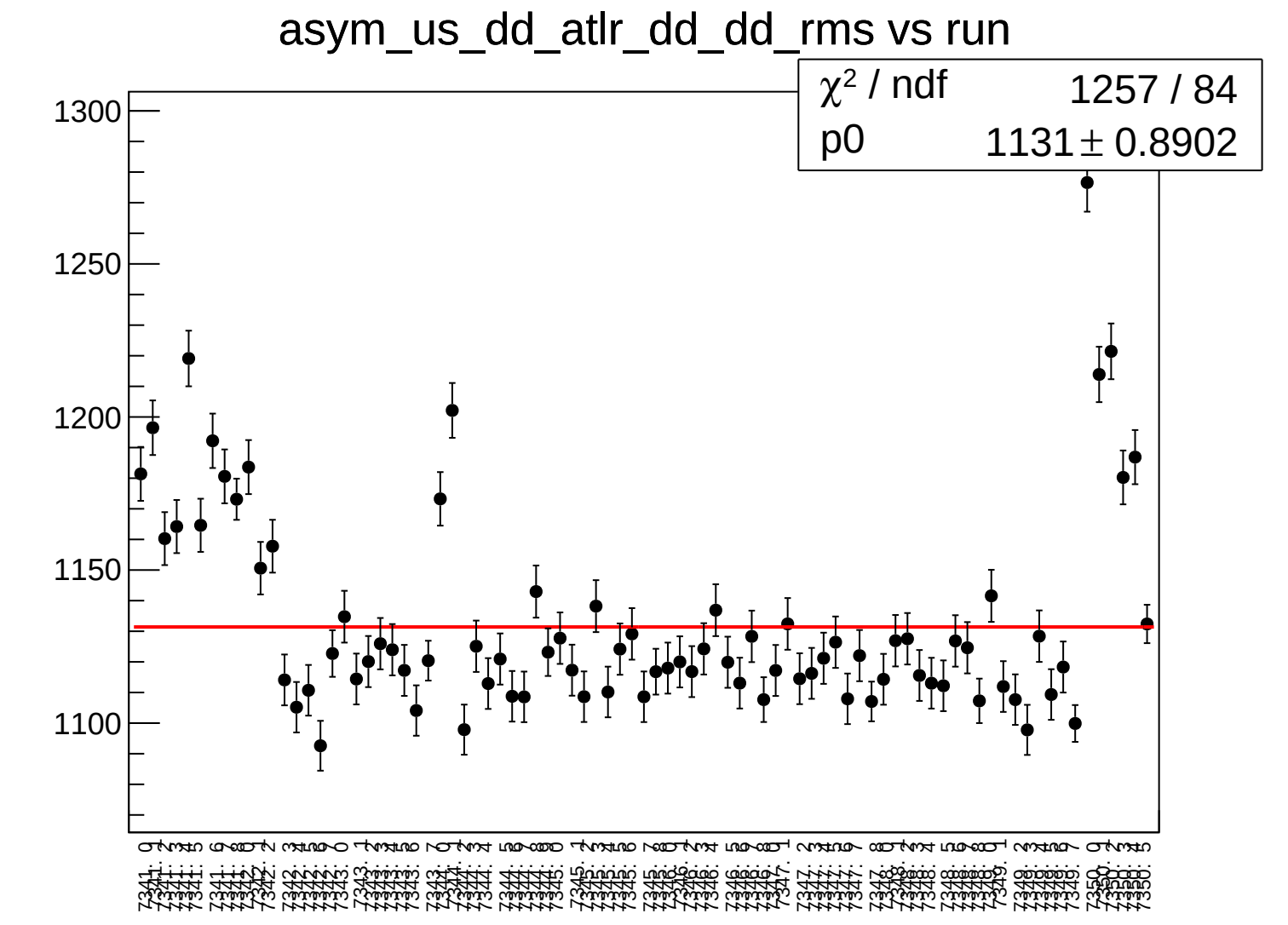

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.14 / 84
p0 −326.7 ± 489.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean −226.9
Std Dev 0
2
1
0
−1
−2

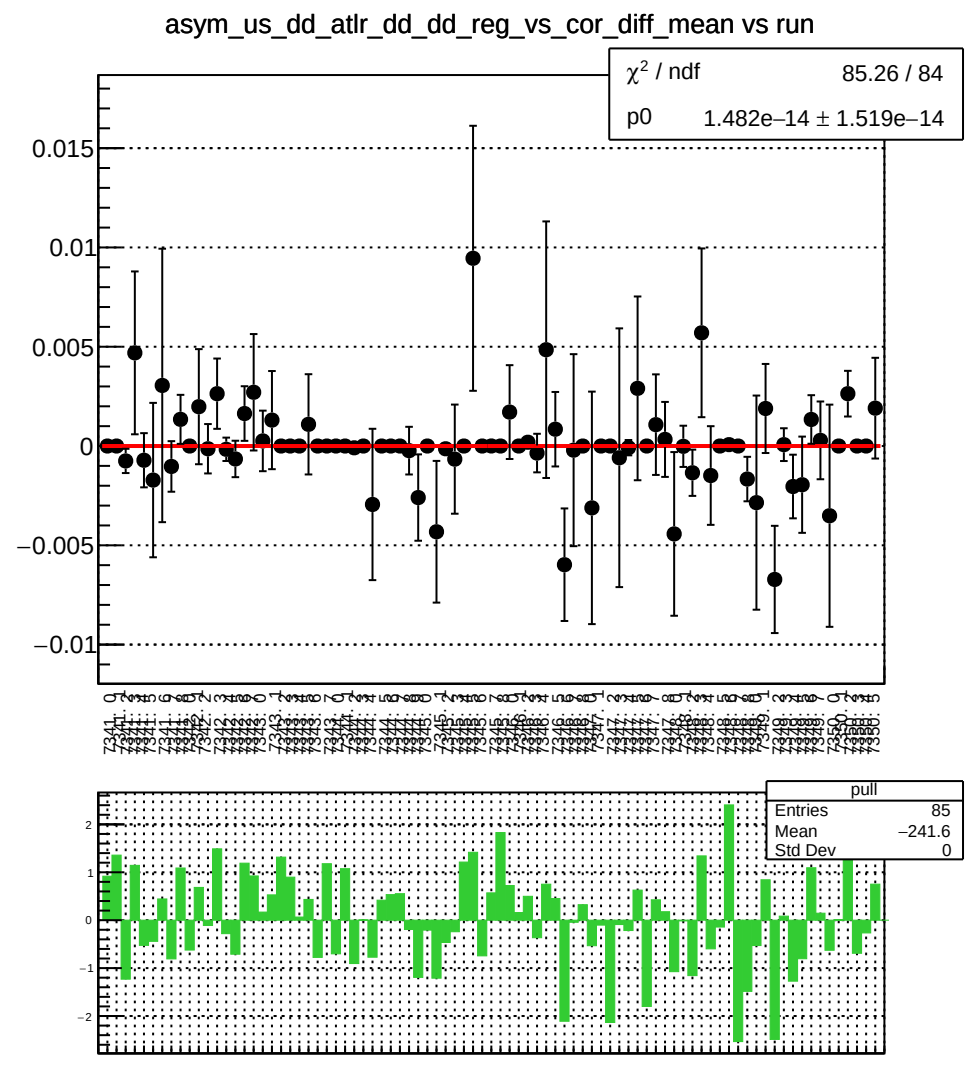

pull1D
Entries 85
Mean −0.01635
Std Dev 0.9275
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

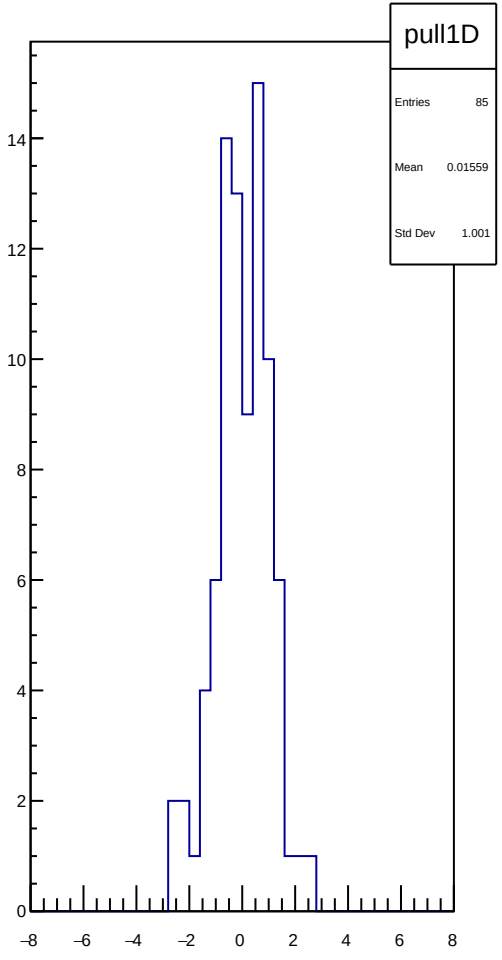

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5572 / 84
p0 439.5 ± 0.3463
520
500
480
460
440
420
400
380

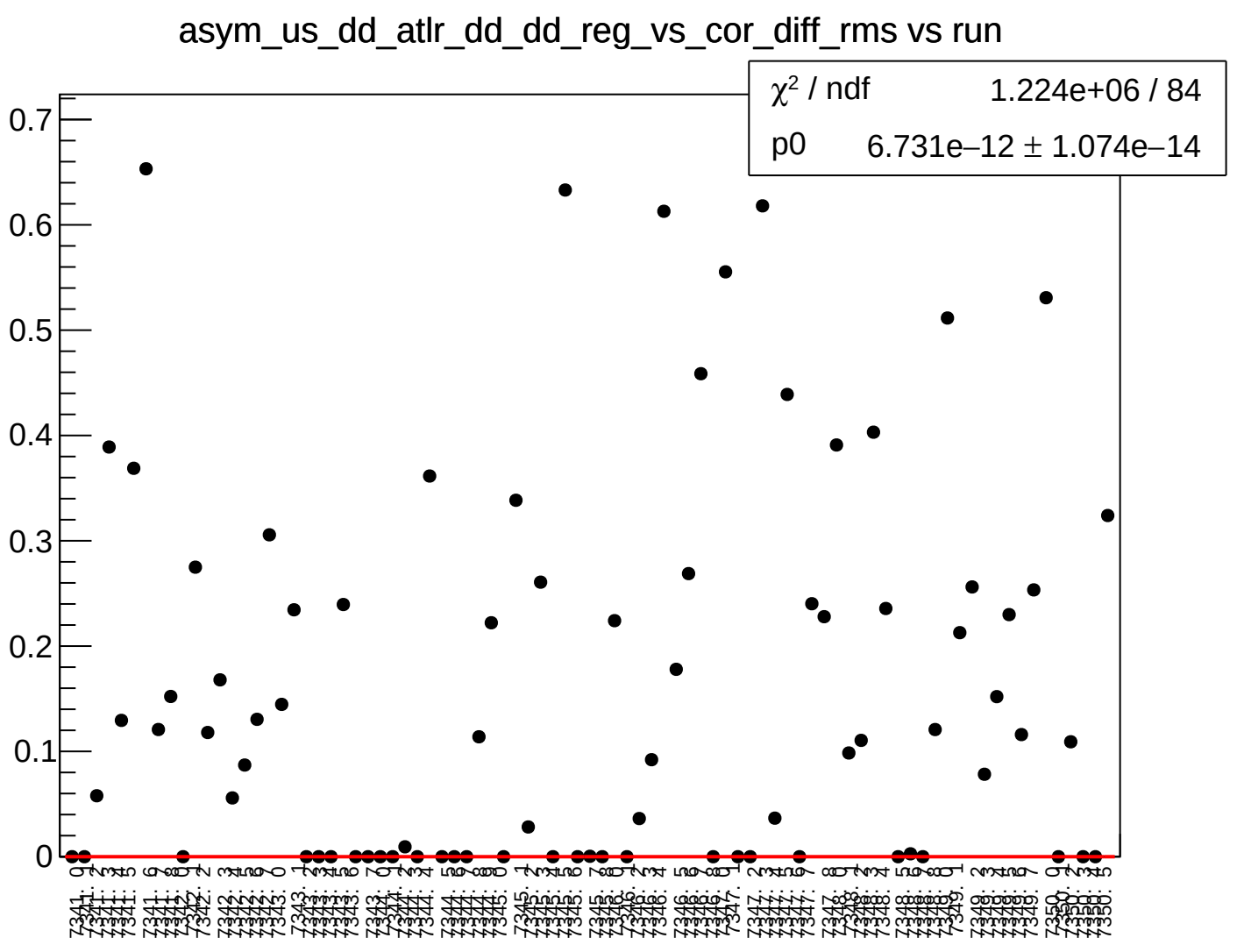

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 93.5 / 84
p0 2174 ± 1259
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 439.3
Std Dev 0
3
2
1
0
−1
−2
−3

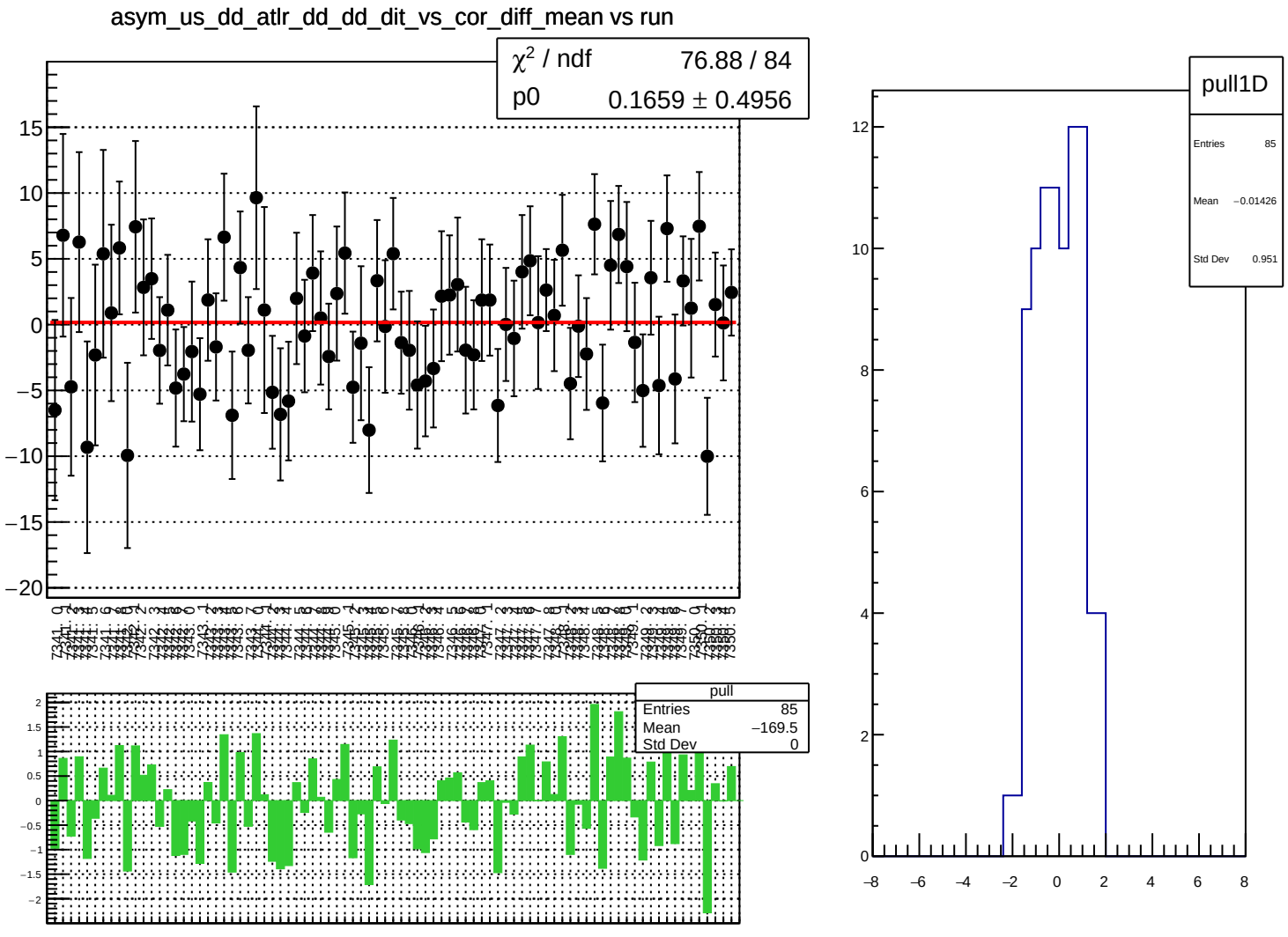

pull1D
Entries 85
Mean −0.004939
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

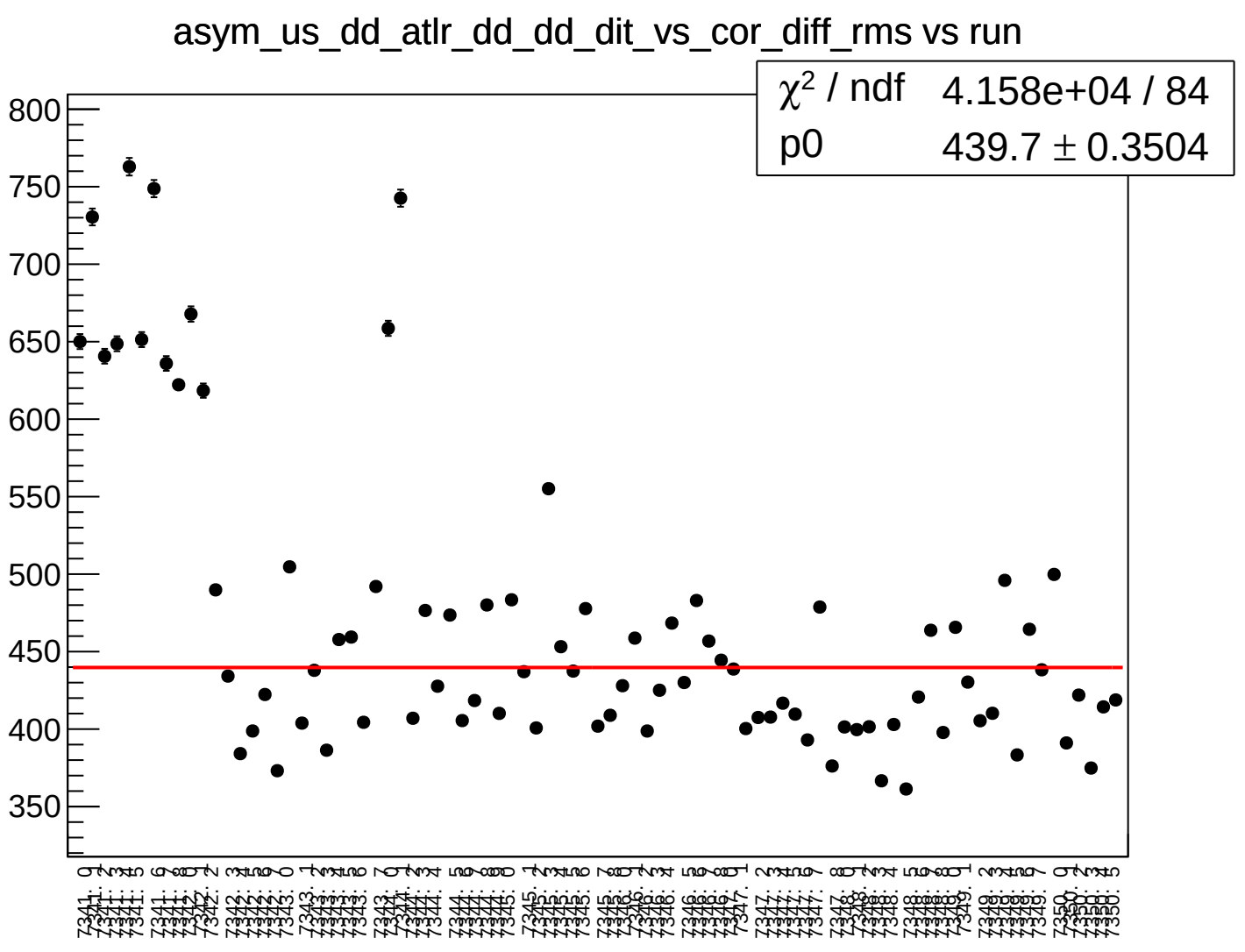

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1257 / 84
p0 1131 ± 0.8902
1300
1250
1200
1150
1100

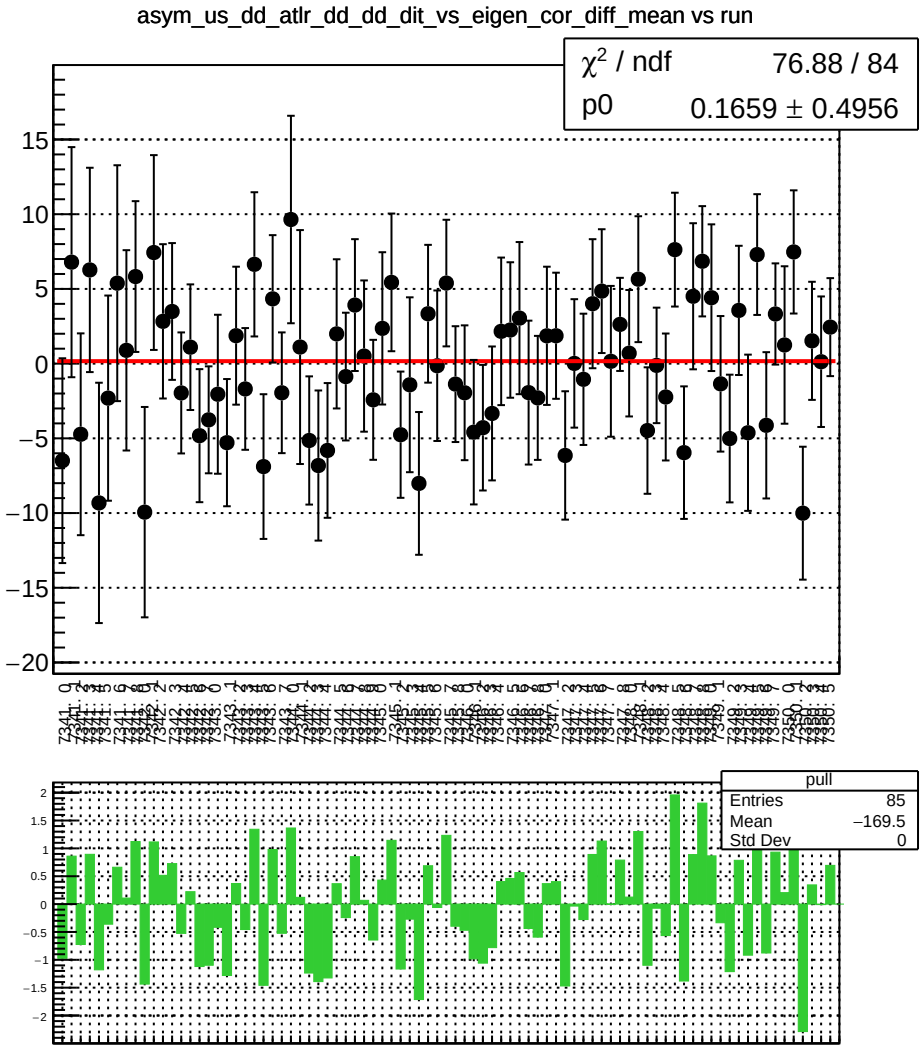

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.26 / 84
p0 1.482e−14 ± 1.519e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 85
Mean −241.6
Std Dev 0
2
1
0
−1
−2

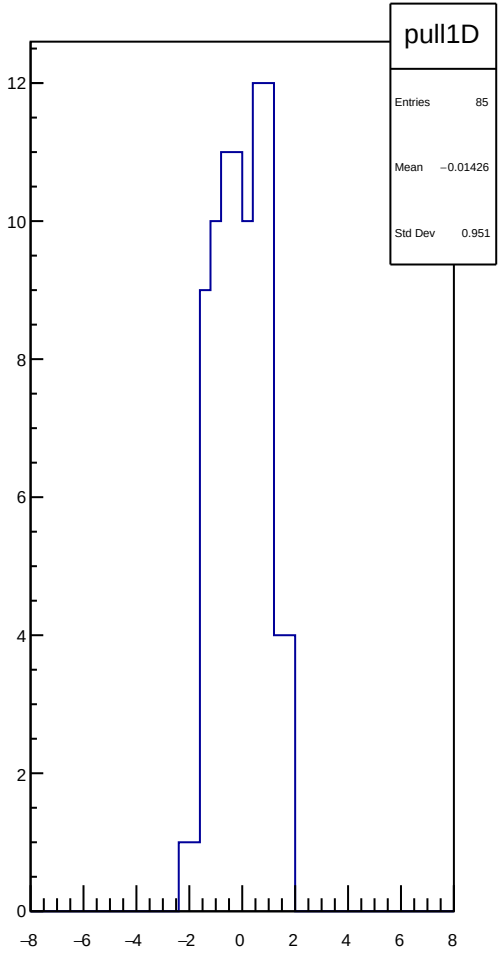

pull1D
Entries 85
Mean 0.01559
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

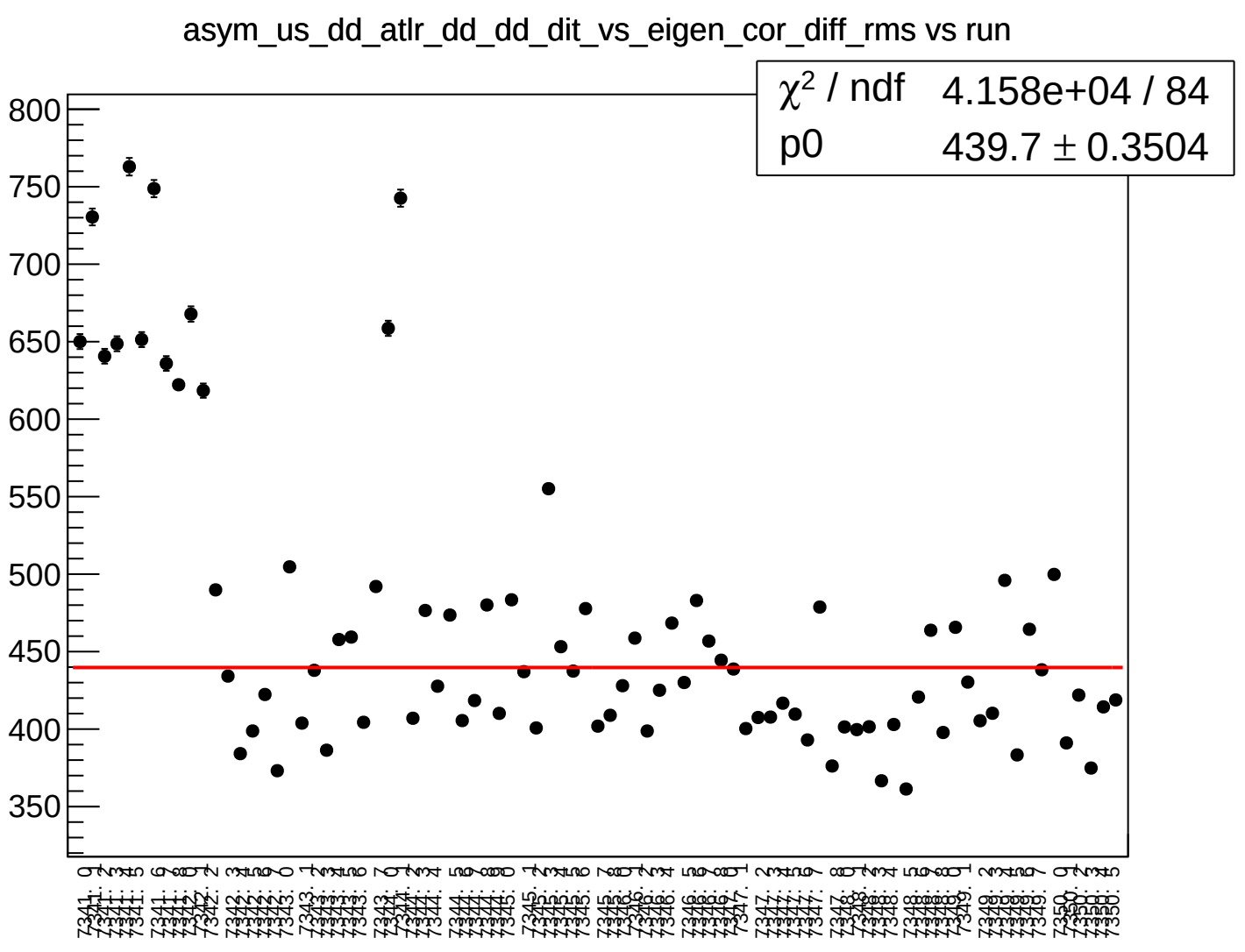

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.224e+06 / 84
p0 6.731e−12 ± 1.074e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

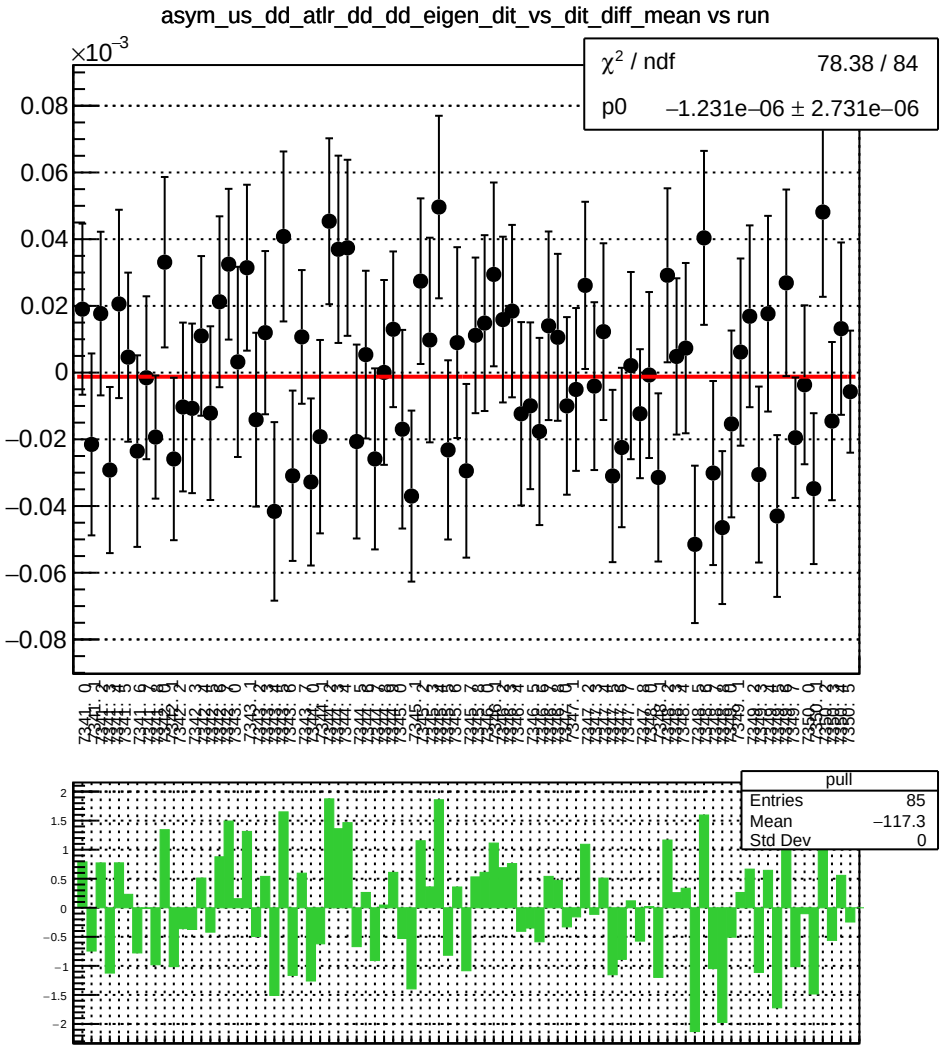

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.88 / 84
p0 0.1659 ± 0.4956
pull
Entries 85
Mean −169.5
Std Dev 0
pull1D
Entries 85
Mean −0.01426
Std Dev 0.951

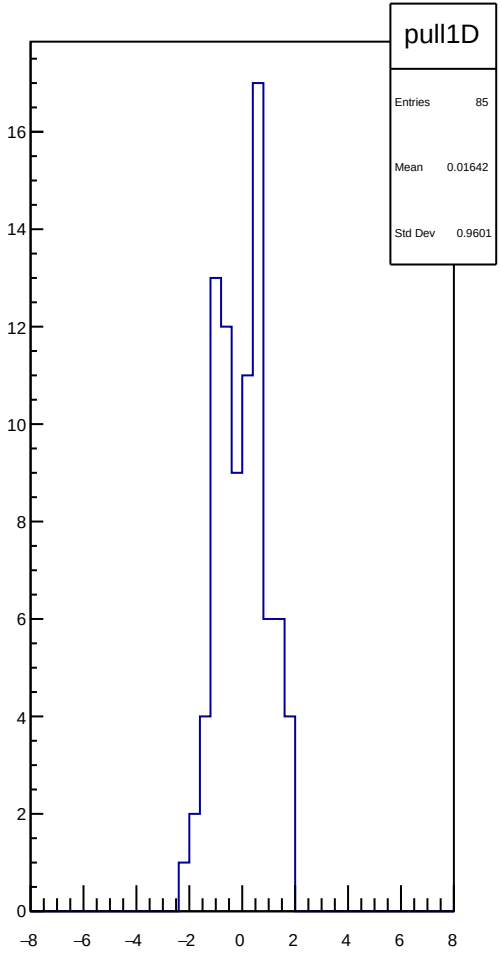

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.158e+04 / 84
p0 439.7 ± 0.3504
800
750
700
650
600
550
500
450
400
350

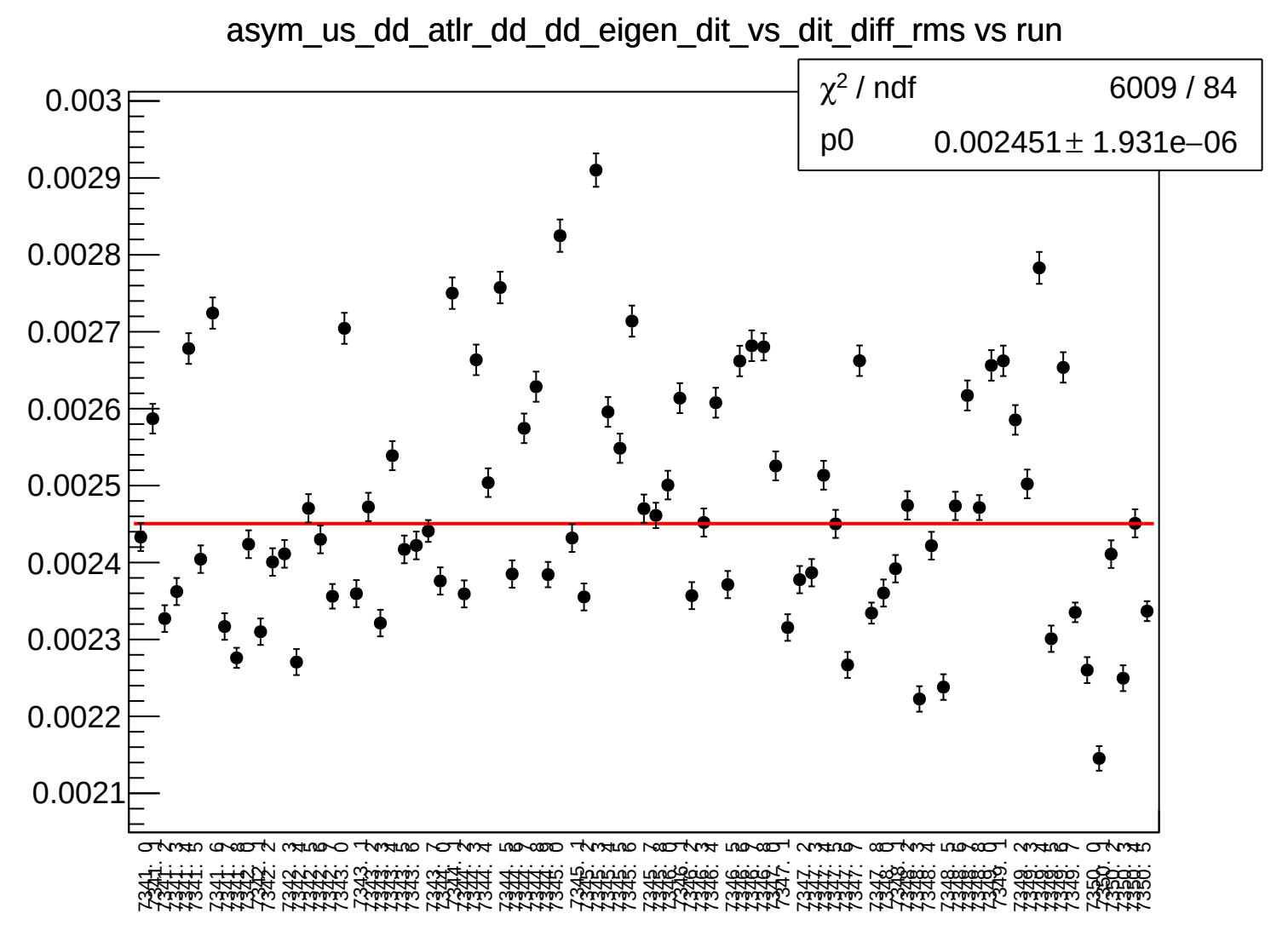

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.88 / 84
p0 0.1659 ± 0.4956
pull
Entries 85
Mean −169.5
Std Dev 0

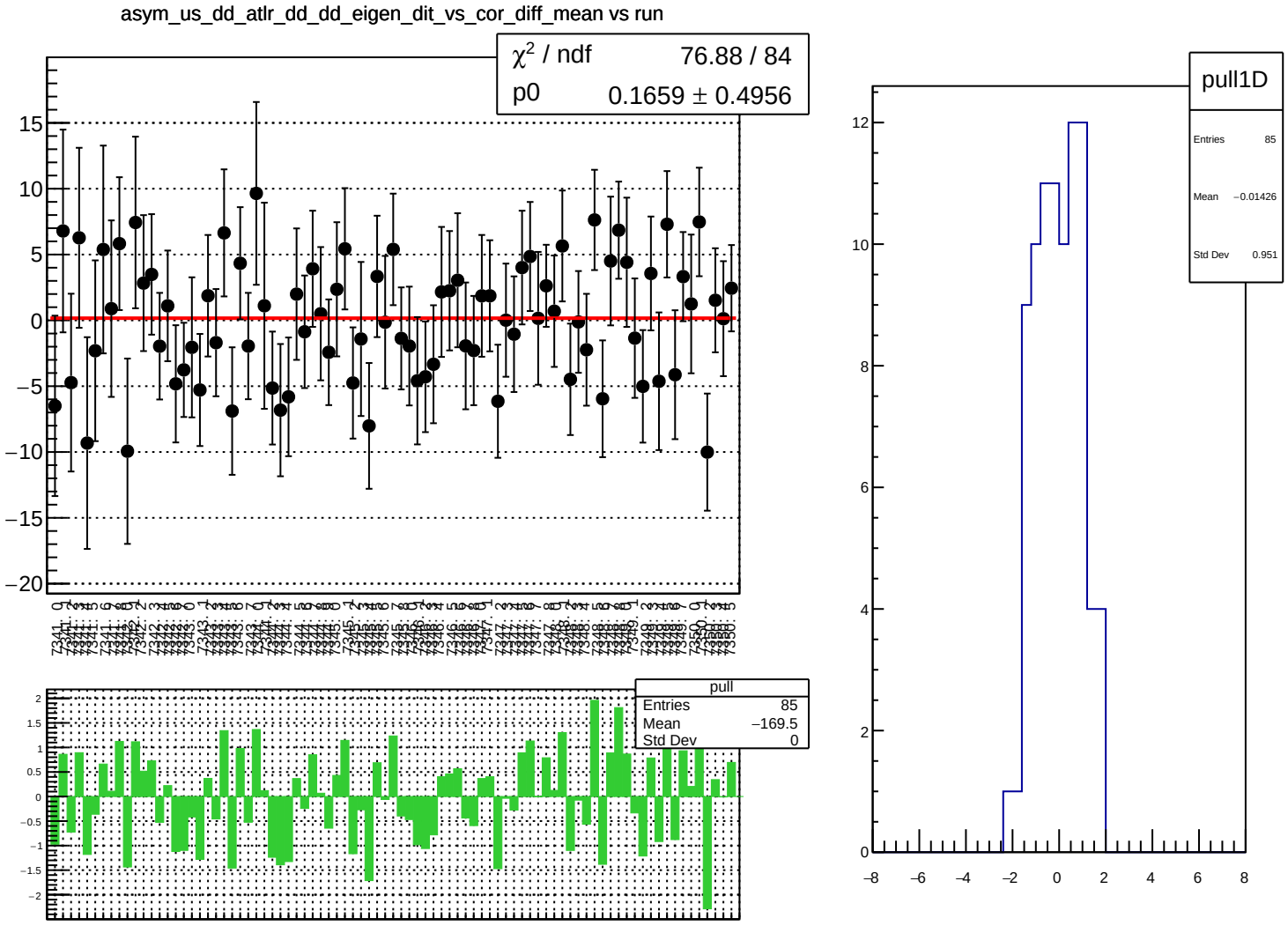

pull1D
Entries 85
Mean −0.01426
Std Dev 0.951

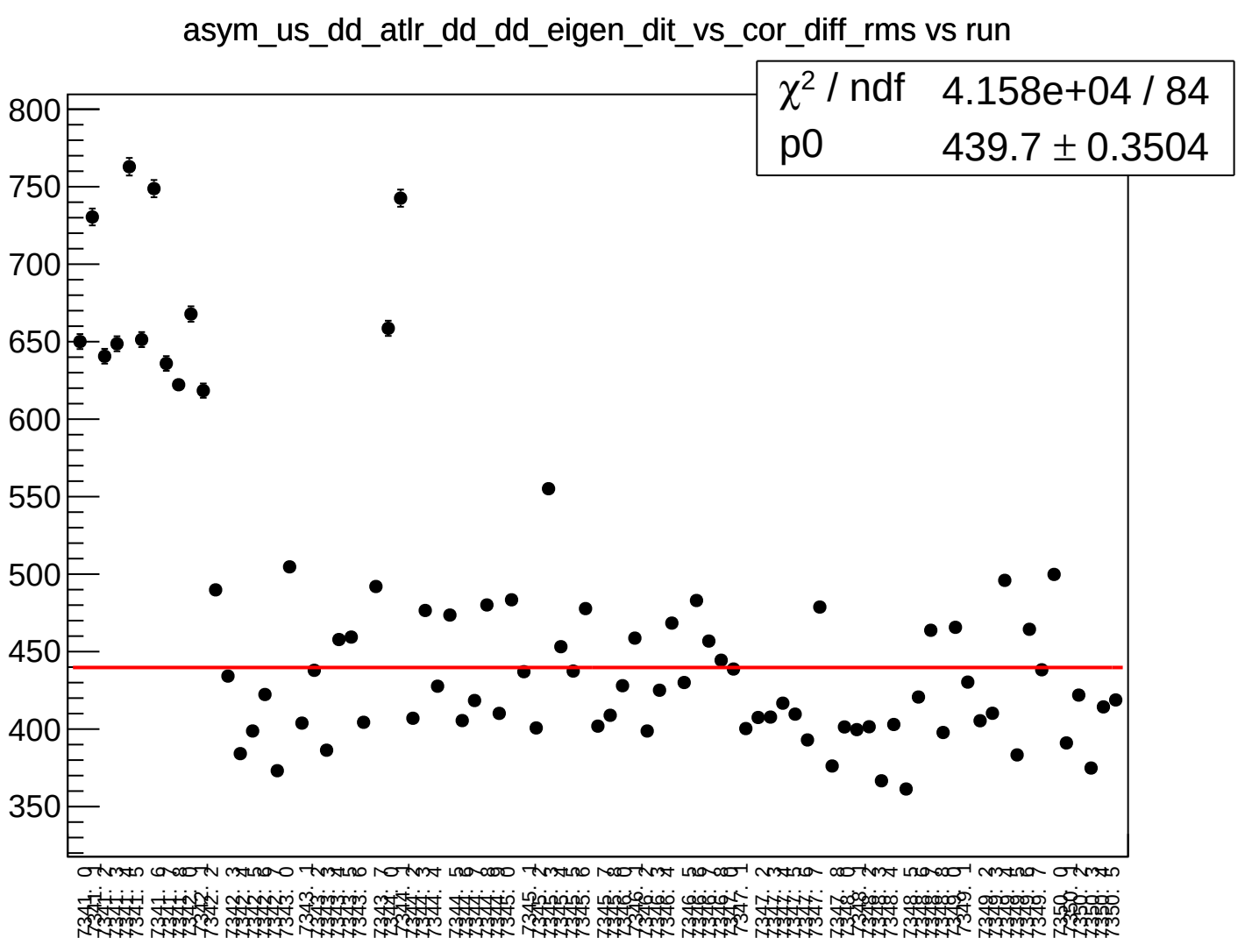

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.158e+04 / 84
p0 439.7 ± 0.3504
800
750
700
650
600
550
500
450
400
350

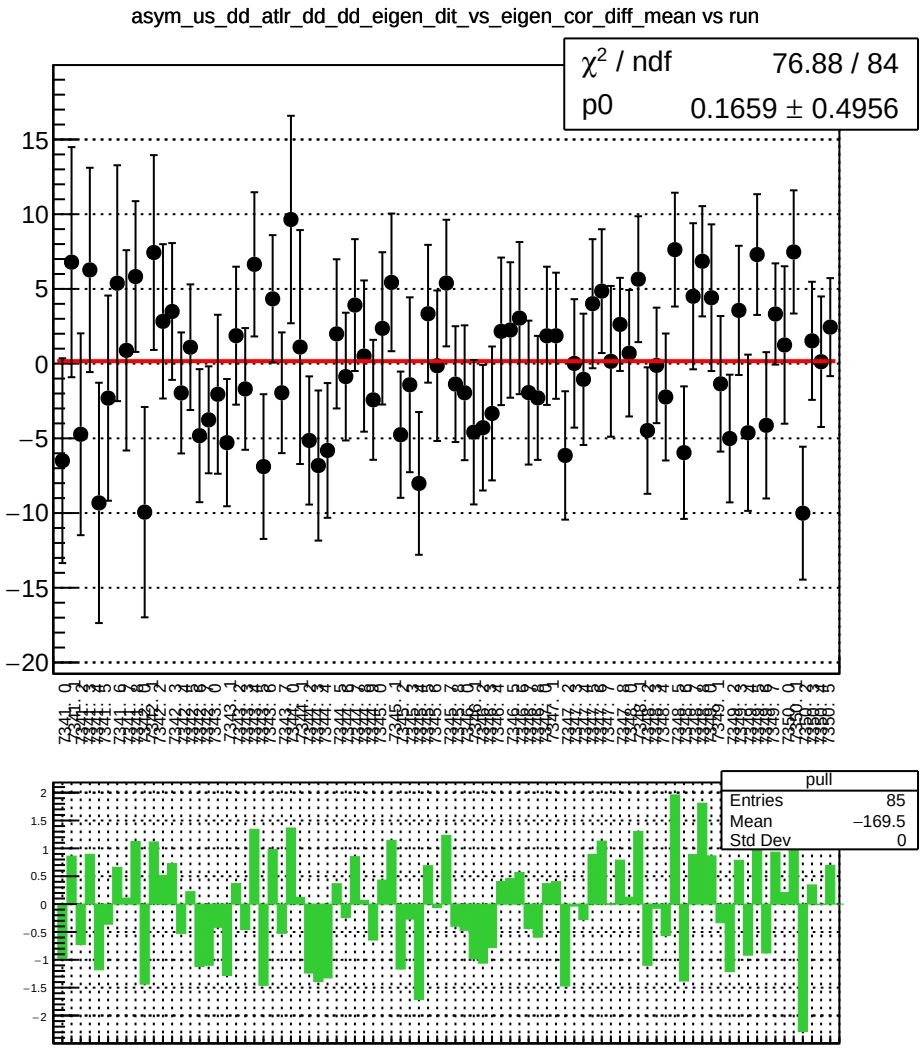

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.38 / 84
p0 −1.231e−06 ± 2.731e−06
pull
Entries 85
Mean −117.3
Std Dev 0

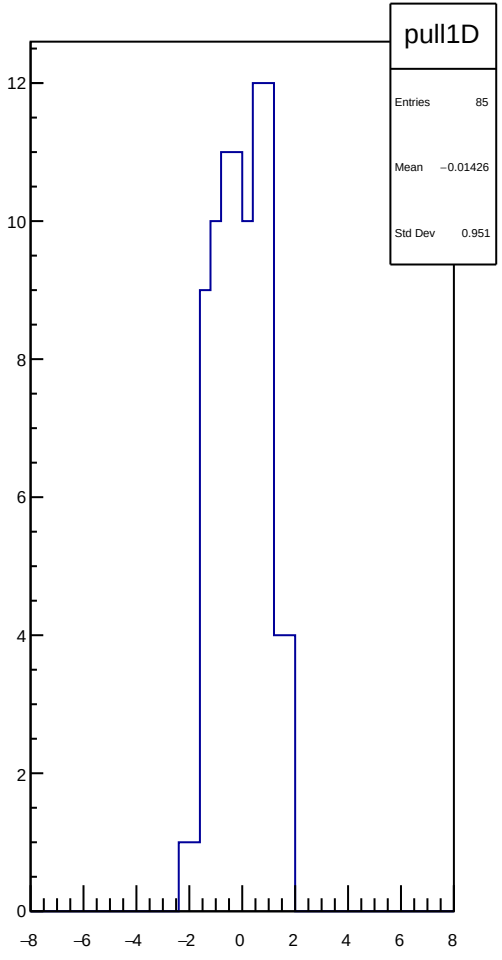

pull1D
Entries 85
Mean 0.01642
Std Dev 0.9601

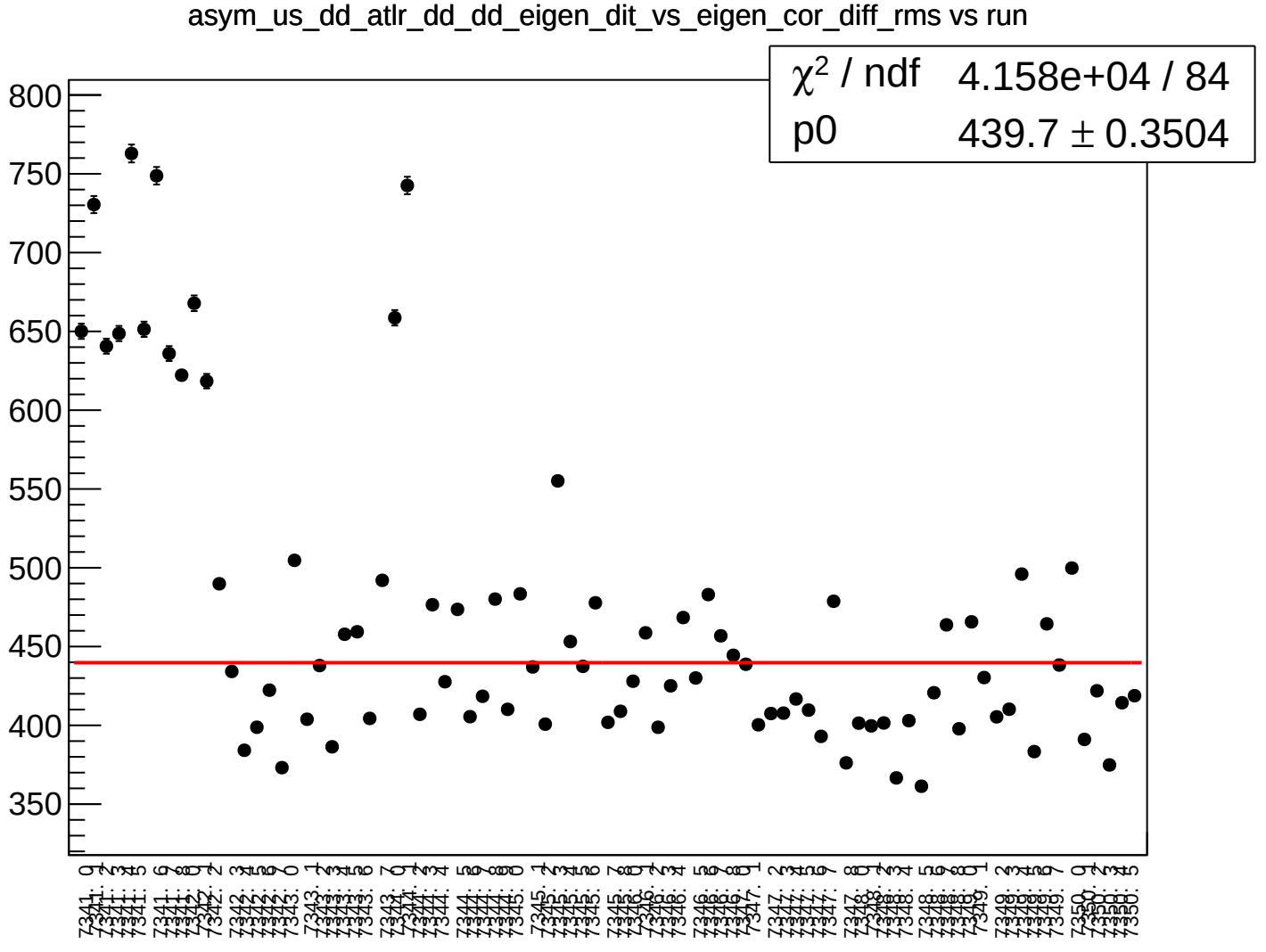

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6009 / 84
p0 0.002451 ± 1.931e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

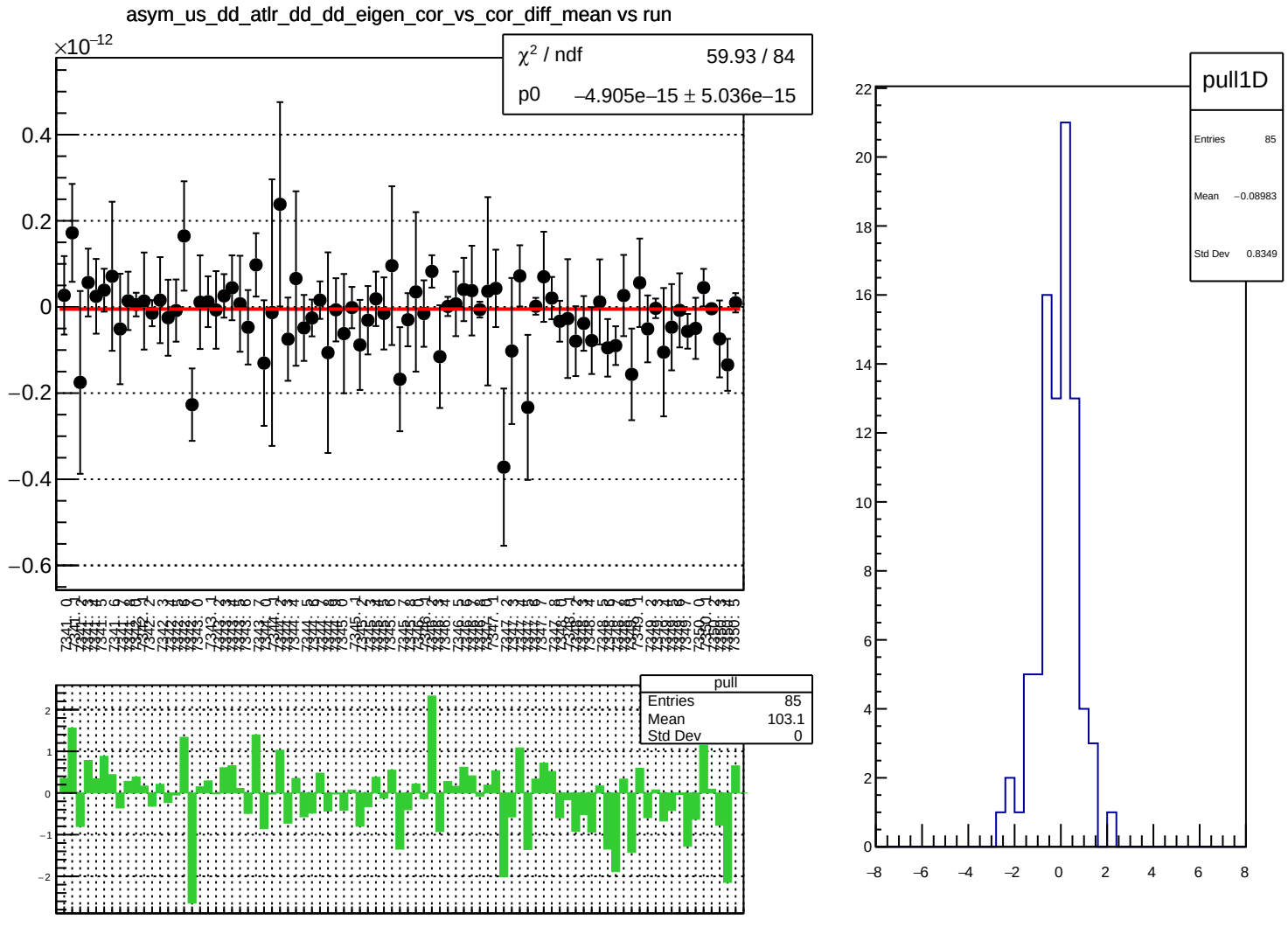

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.88 / 84
p0 0.1659 ± 0.4956
pull
Entries 85
Mean −169.5
Std Dev 0
pull1D
Entries 85
Mean −0.01426
Std Dev 0.951

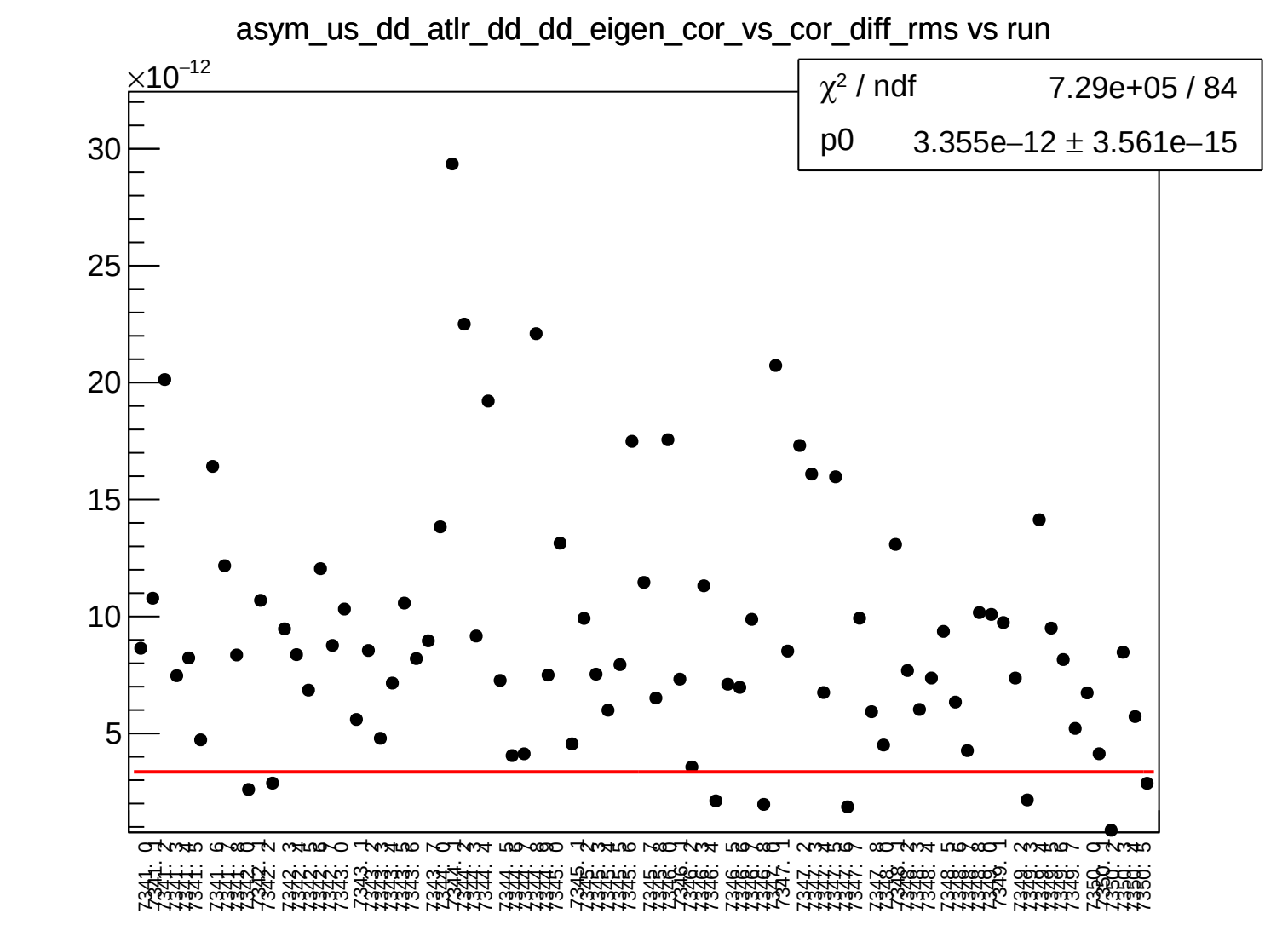

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.158e+04 / 84
p0 439.7 ± 0.3504
800
750
700
650
600
550
500
450
400
350

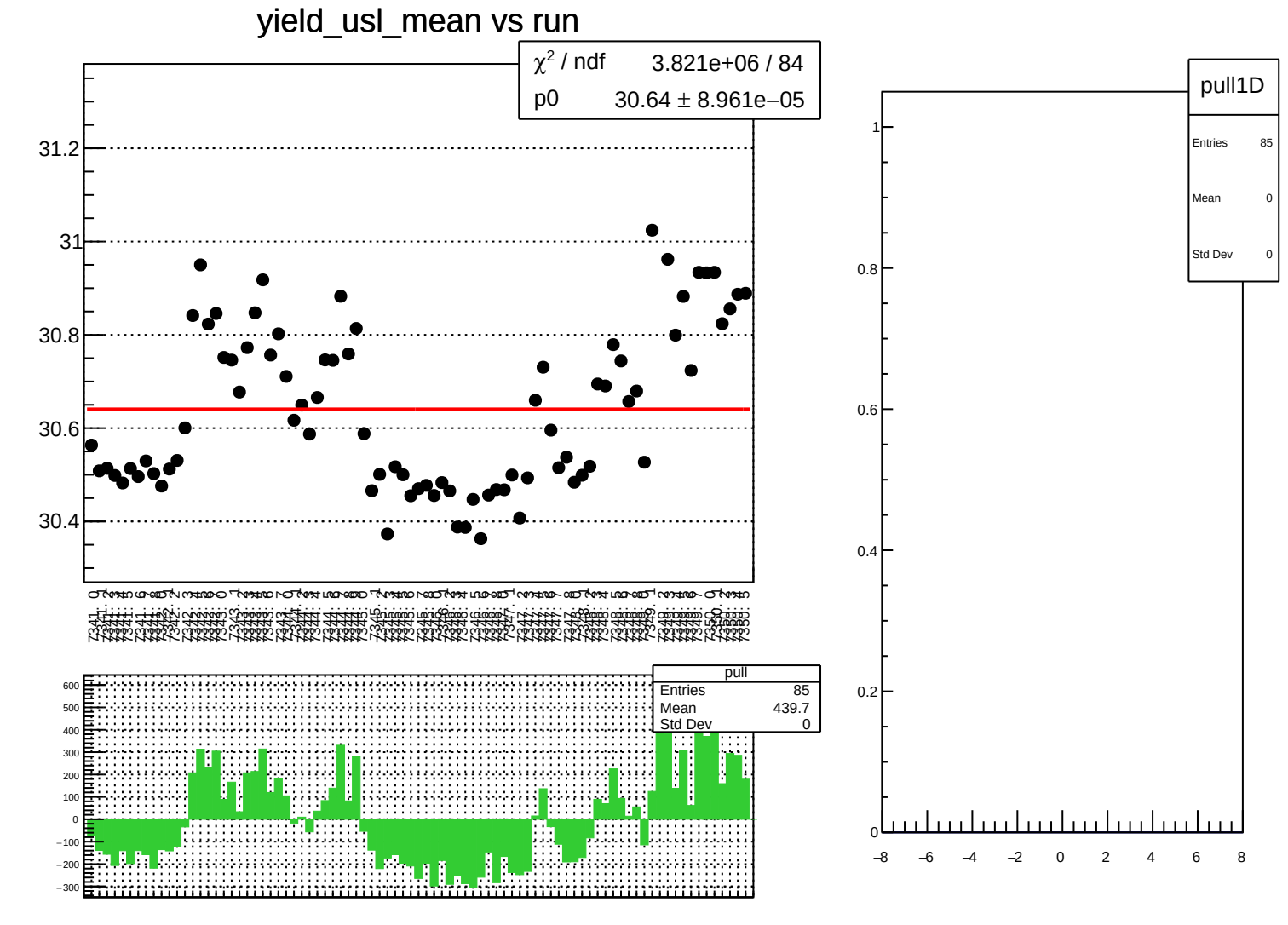

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.88 / 84
p0 0.1659 ± 0.4956
pull
Entries 85
Mean −169.5
Std Dev 0

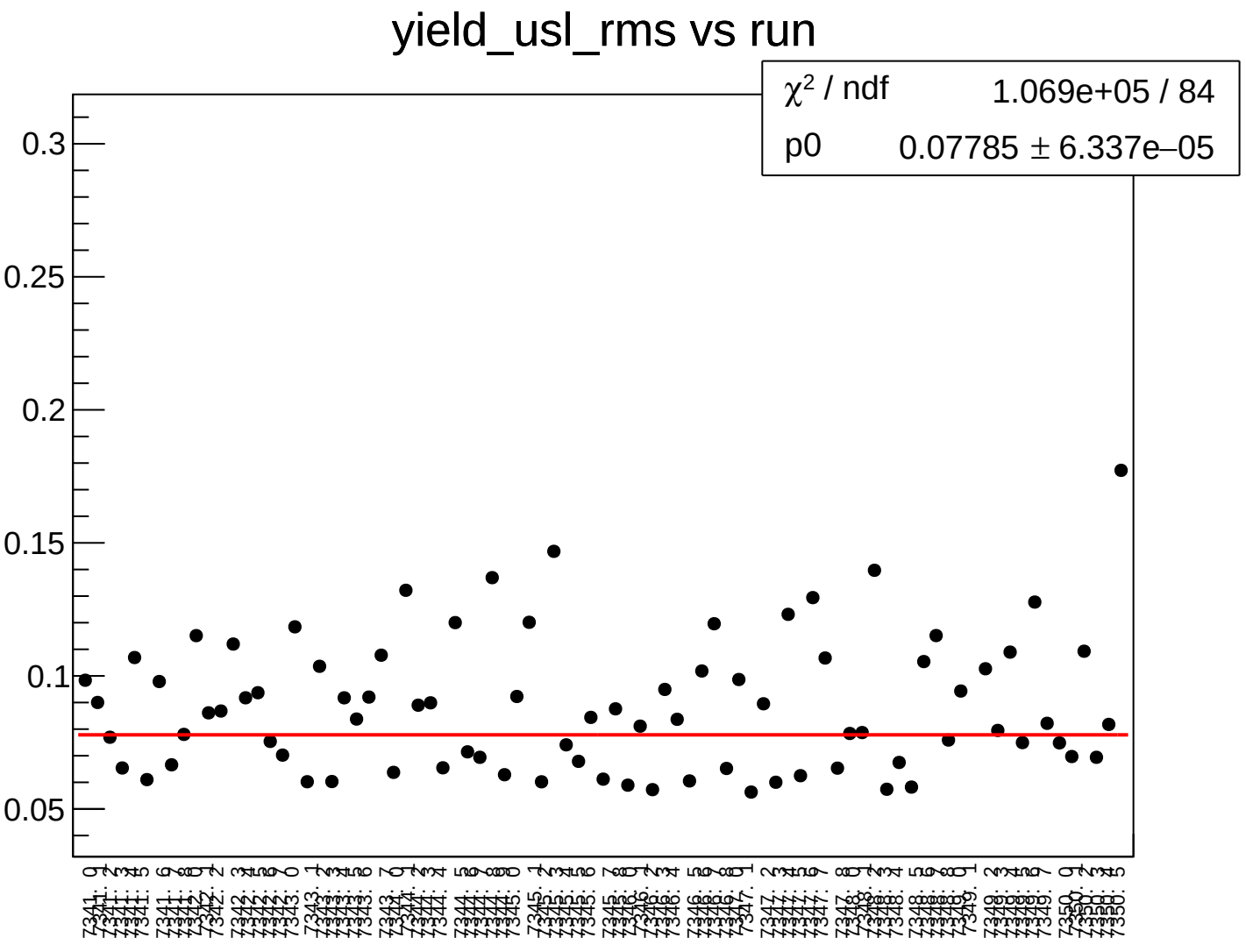

pull1D
Entries 85
Mean −0.01426
Std Dev 0.951

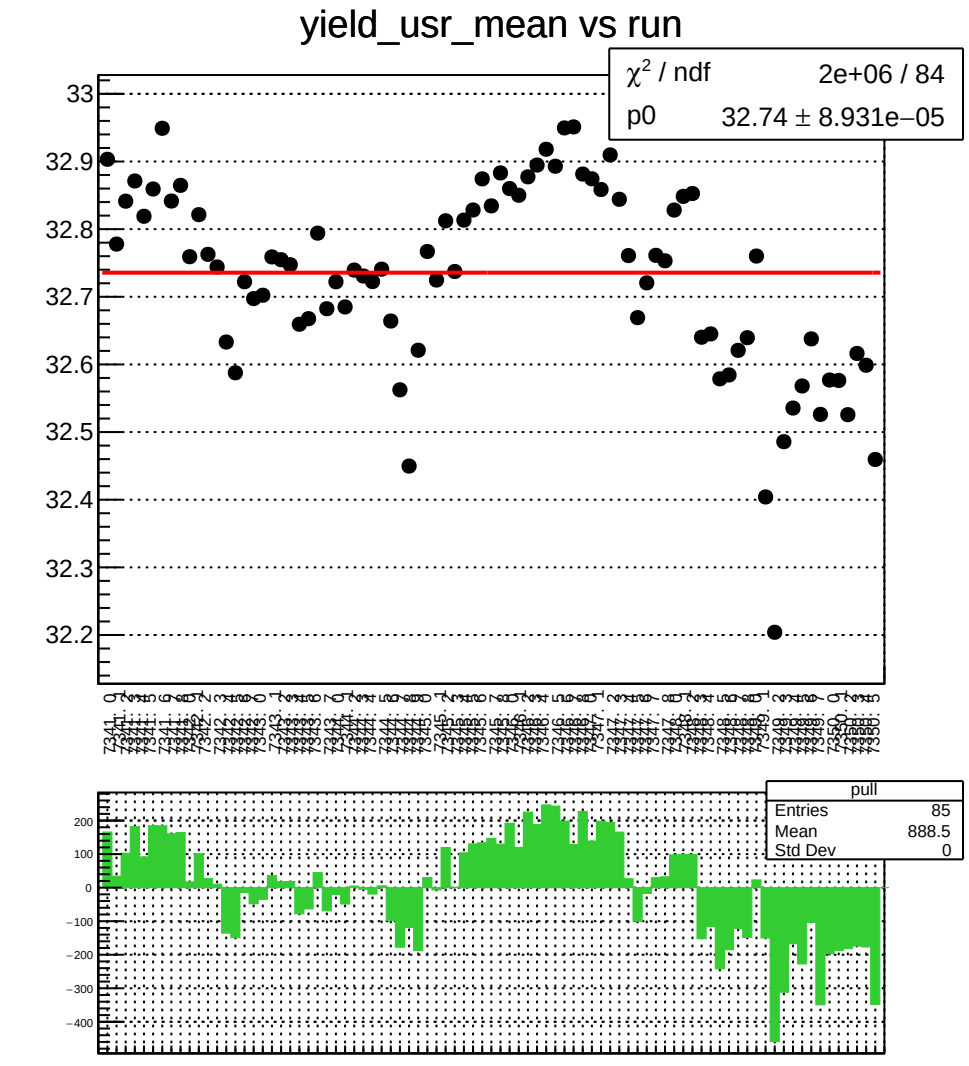

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.158e+04 / 84
p0 439.7 ± 0.3504
800
750
700
650
600
550
500
450
400
350

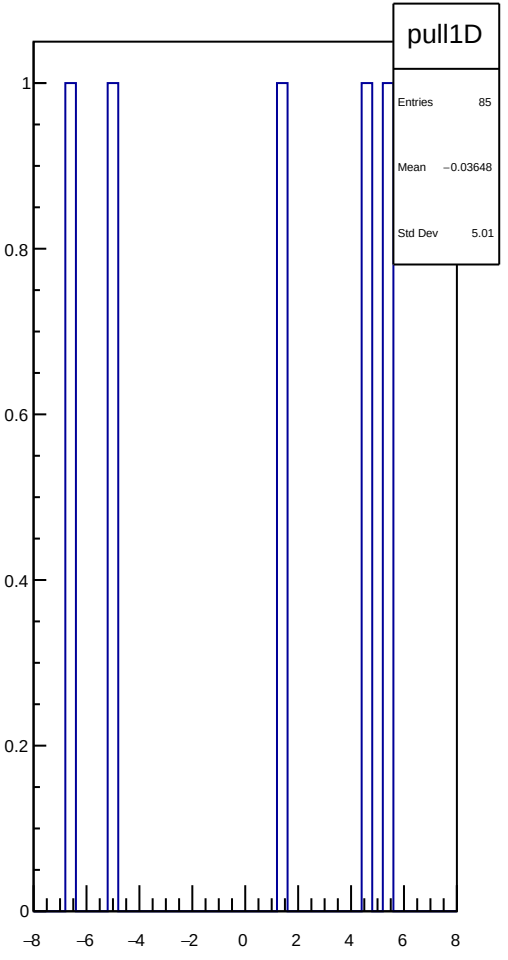

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 59.93 / 84
p0 −4.905e−15 ± 5.036e−15
pull
Entries 85
Mean 103.1
Std Dev 0
pull1D
Entries 85
Mean −0.08983
Std Dev 0.8349

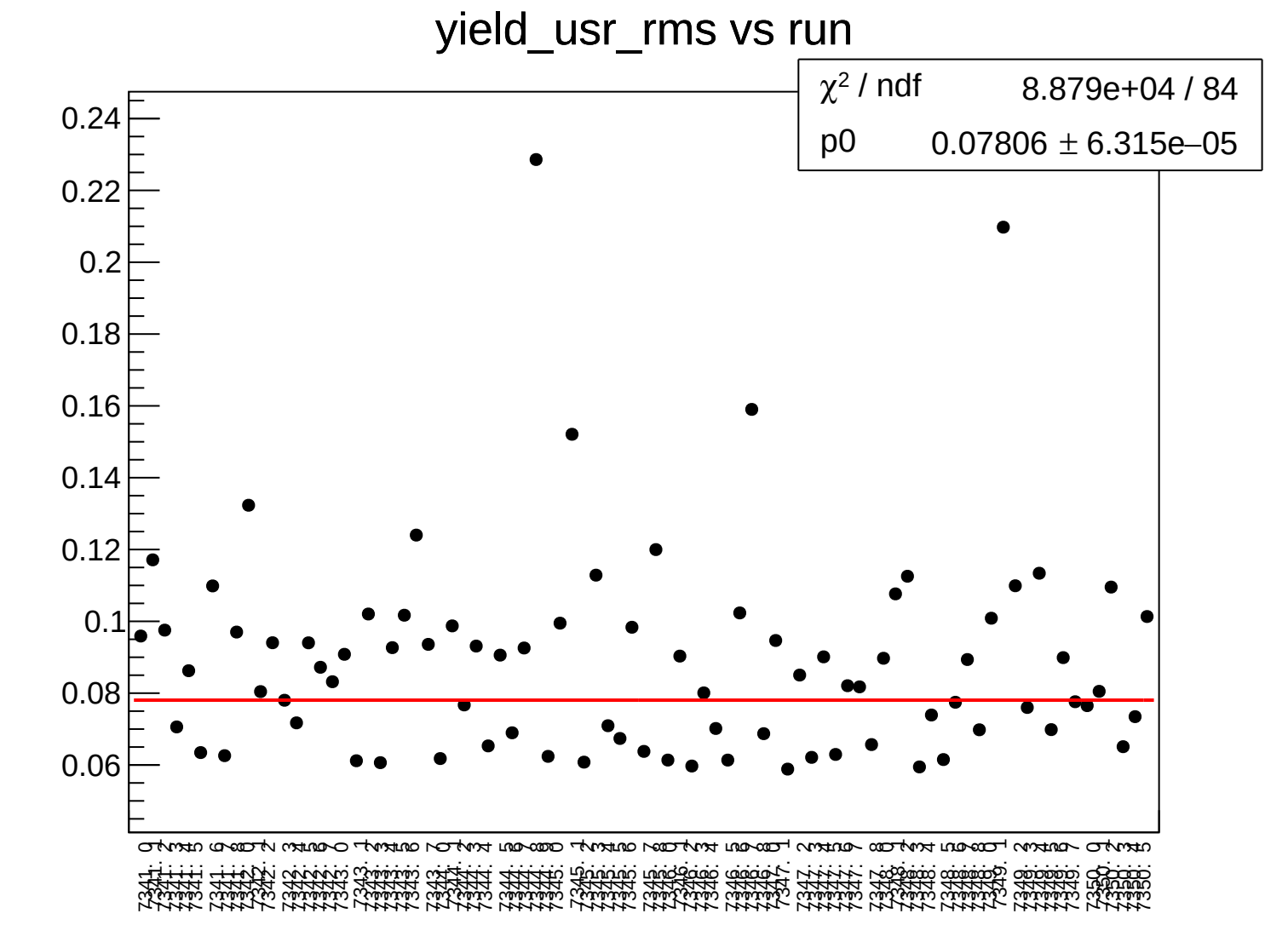

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.29e+05 / 84
p0 3.355e−12 ± 3.561e−15
30
25
20
15
10
5

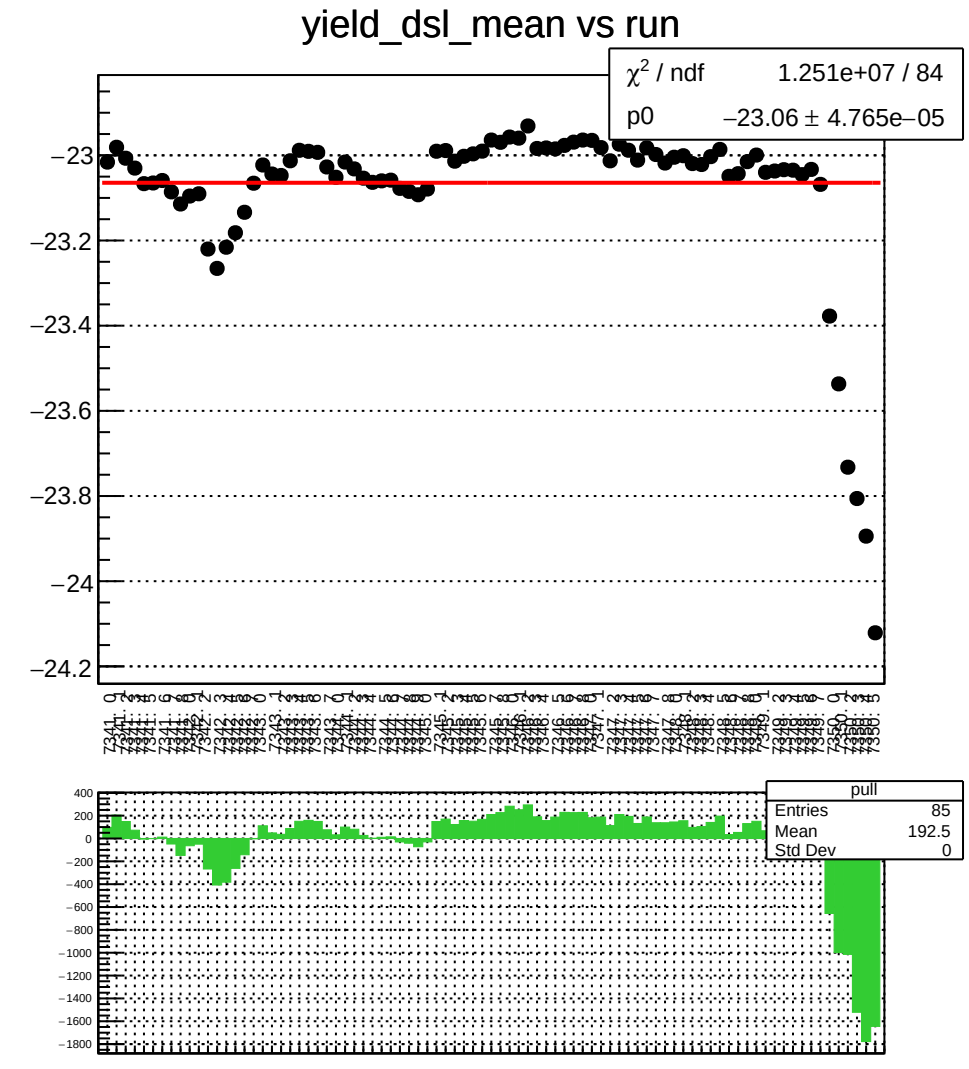

yield_usl_mean vs run
χ² / ndf 3.821e+06 / 84
p0 30.64 ± 8.961e−05
31.2
31
30.8
30.6
30.4
pull
Entries 85
Mean 439.7
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

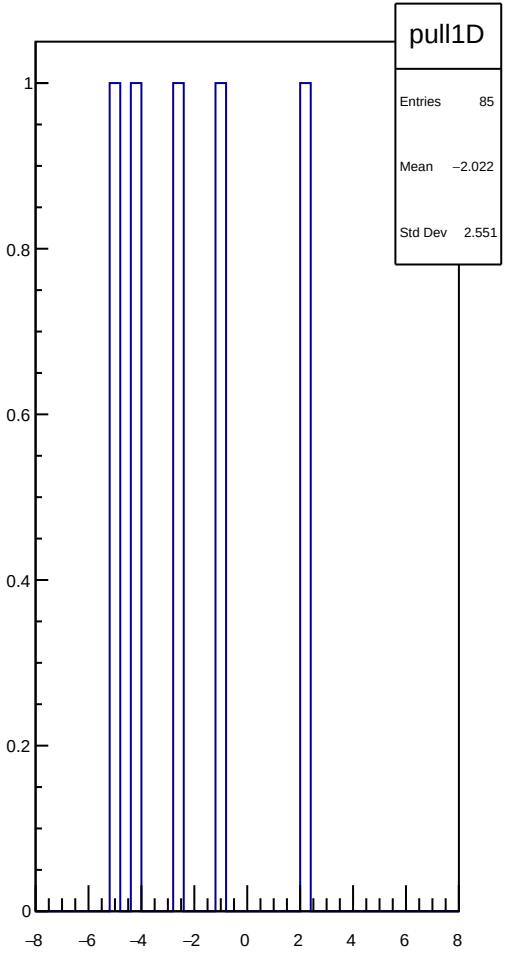

yield_usl_rms vs run
χ² / ndf 1.069e+05 / 84
p0 0.07785 ± 6.337e–05
0.3
0.25
0.2
0.15
0.1
0.05

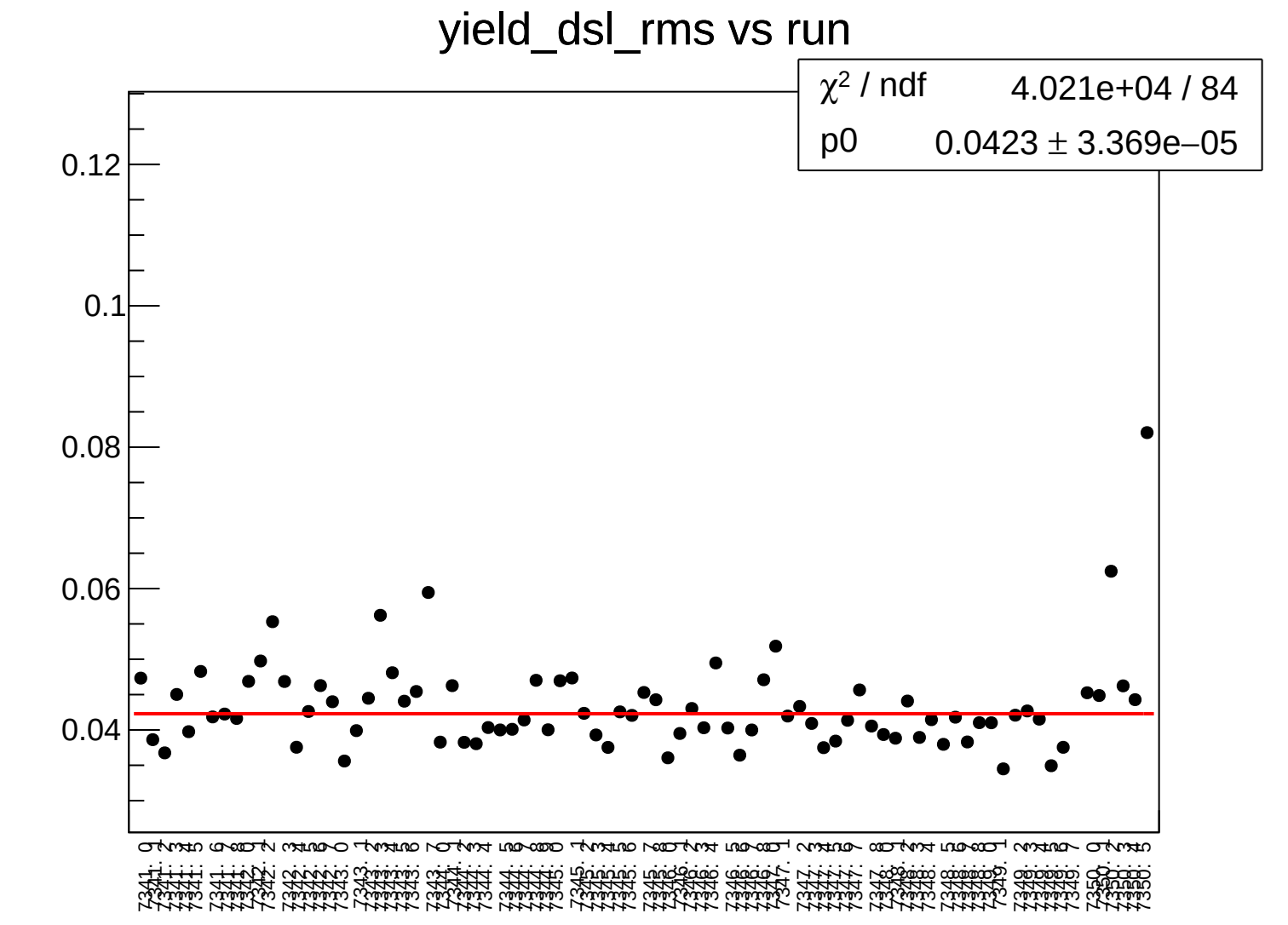

yield_usr_mean vs run
χ² / ndf 2e+06 / 84
p0 32.74 ± 8.931e−05
pull
Entries 85
Mean 888.5
Std Dev 0

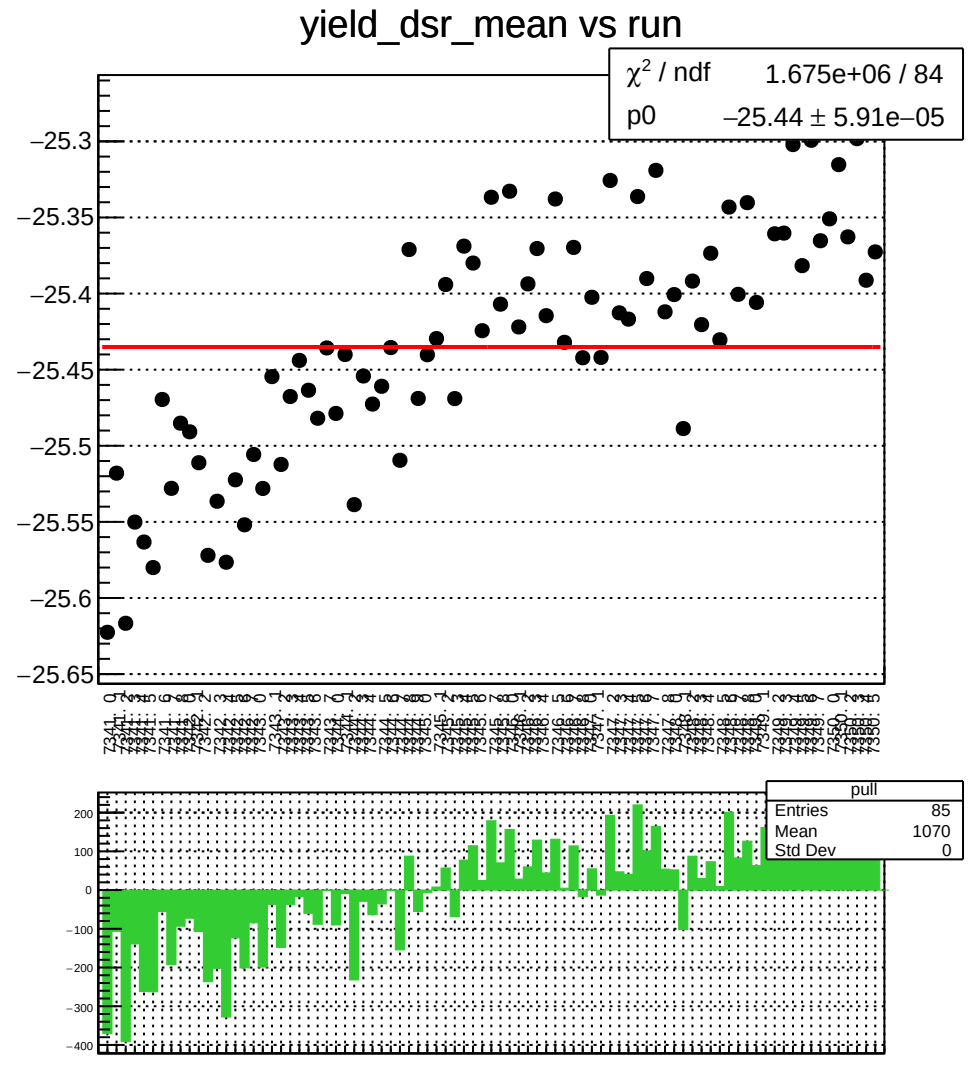

pull1D
Entries 85
Mean −0.03648
Std Dev 5.01

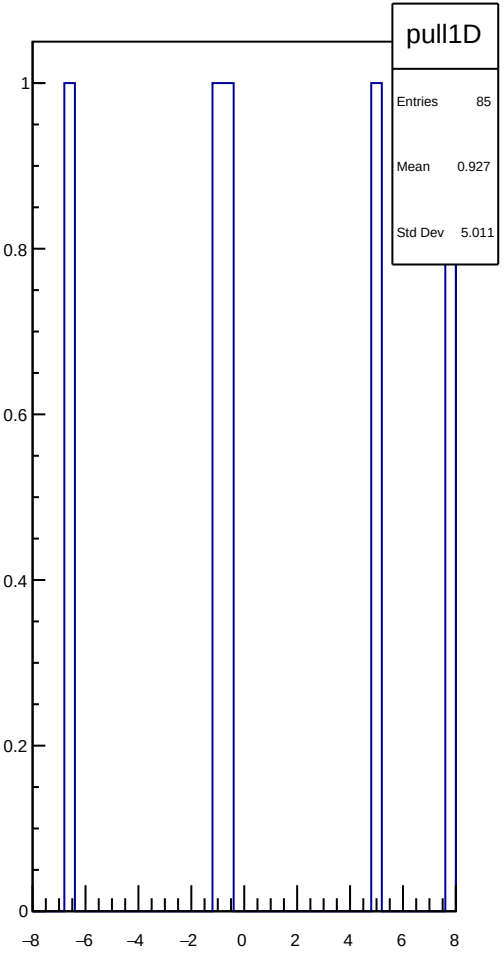

yield_usr_rms vs run
χ² / ndf 8.879e+04 / 84
p0 0.07806 ± 6.315e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

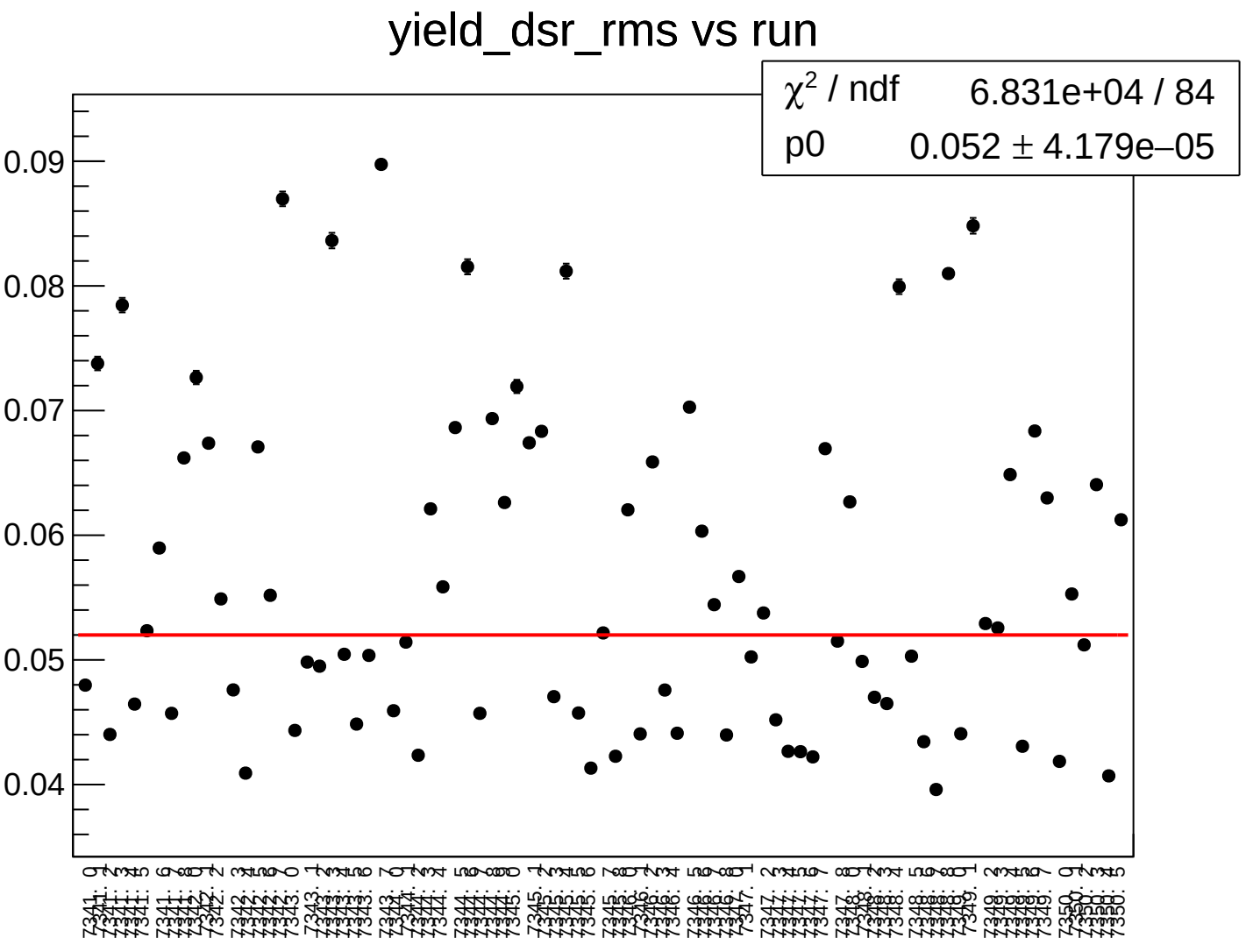

yield_dsl_mean vs run
χ² / ndf 1.251e+07 / 84
p0 −23.06 ± 4.765e−05
−23
−23.2
−23.4
−23.6
−23.8
−24
−24.2
pull
Entries 85
Mean 192.5
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

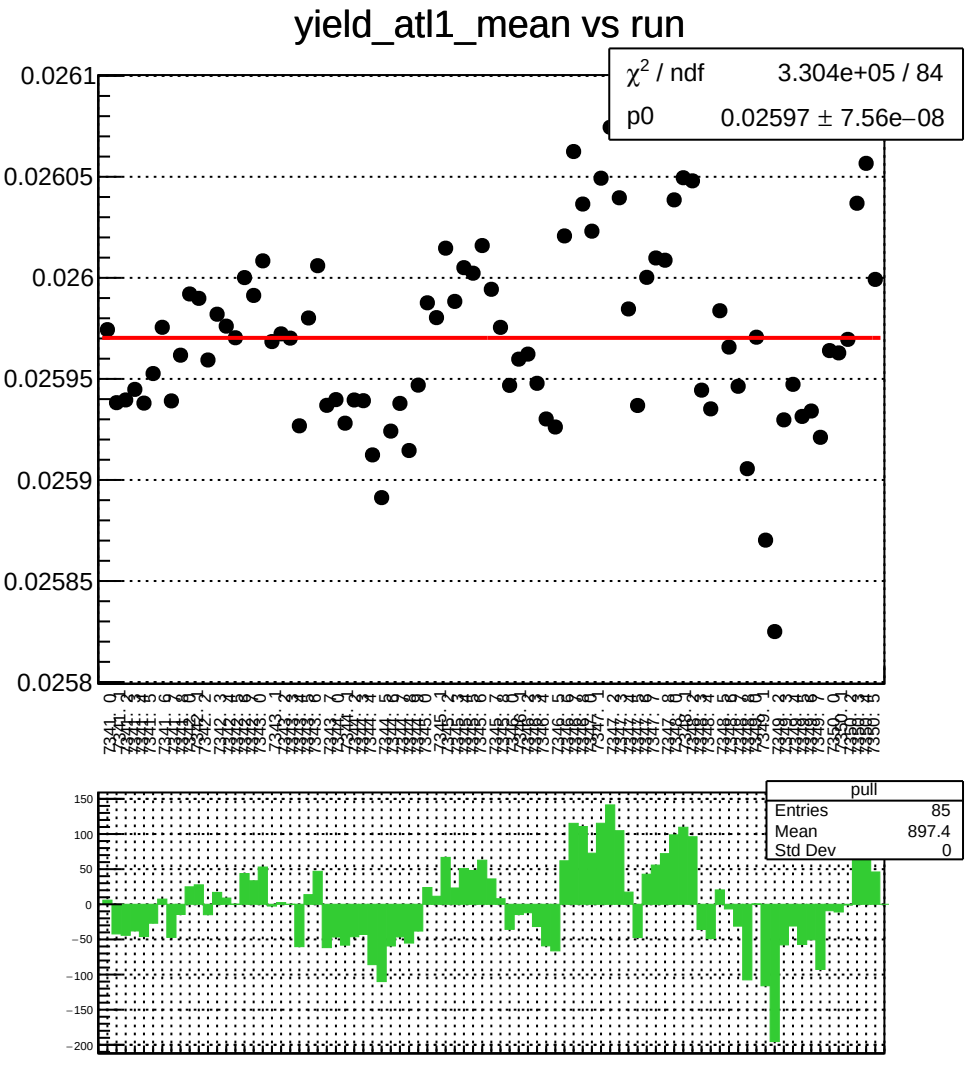

pull1D
Entries 85
Mean −2.022
Std Dev 2.551
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

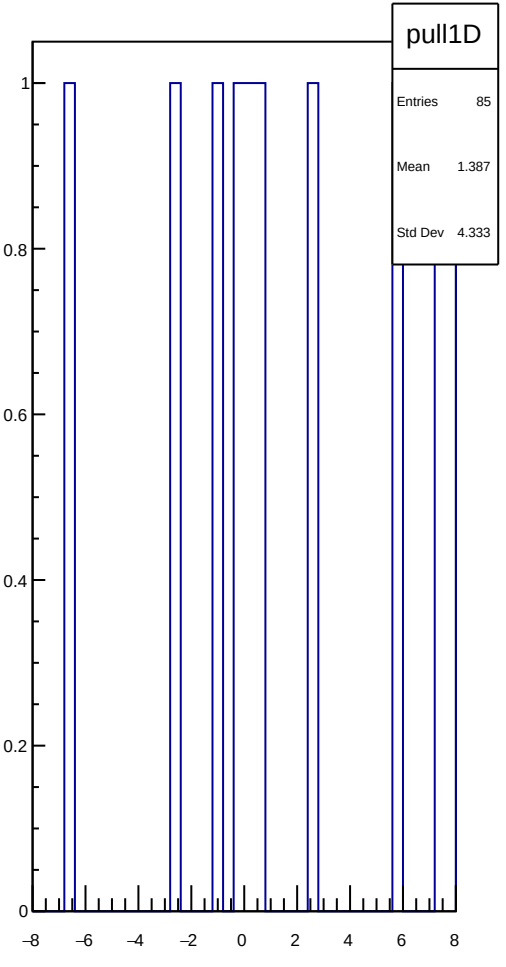

yield_dsl_rms vs run
χ² / ndf 4.021e+04 / 84
p0 0.0423 ± 3.369e−05
0.12
0.1
0.08
0.06
0.04

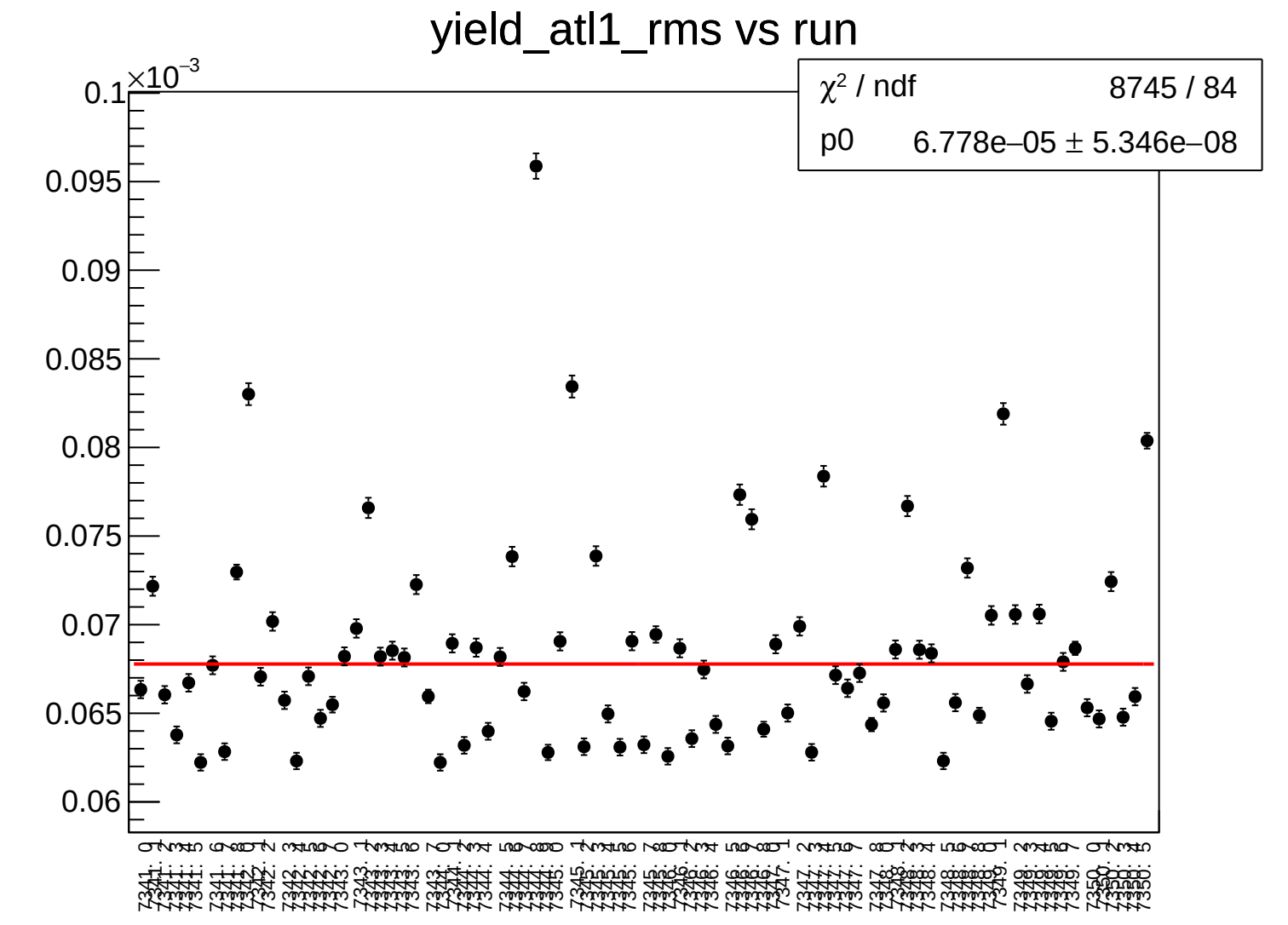

yield_dsr_mean vs run
χ² / ndf 1.675e+06 / 84
p0 −25.44 ± 5.91e−05
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
−25.65
pull
Entries 85
Mean 1070
Std Dev 0
200
100
0
−100
−200
−300
−400

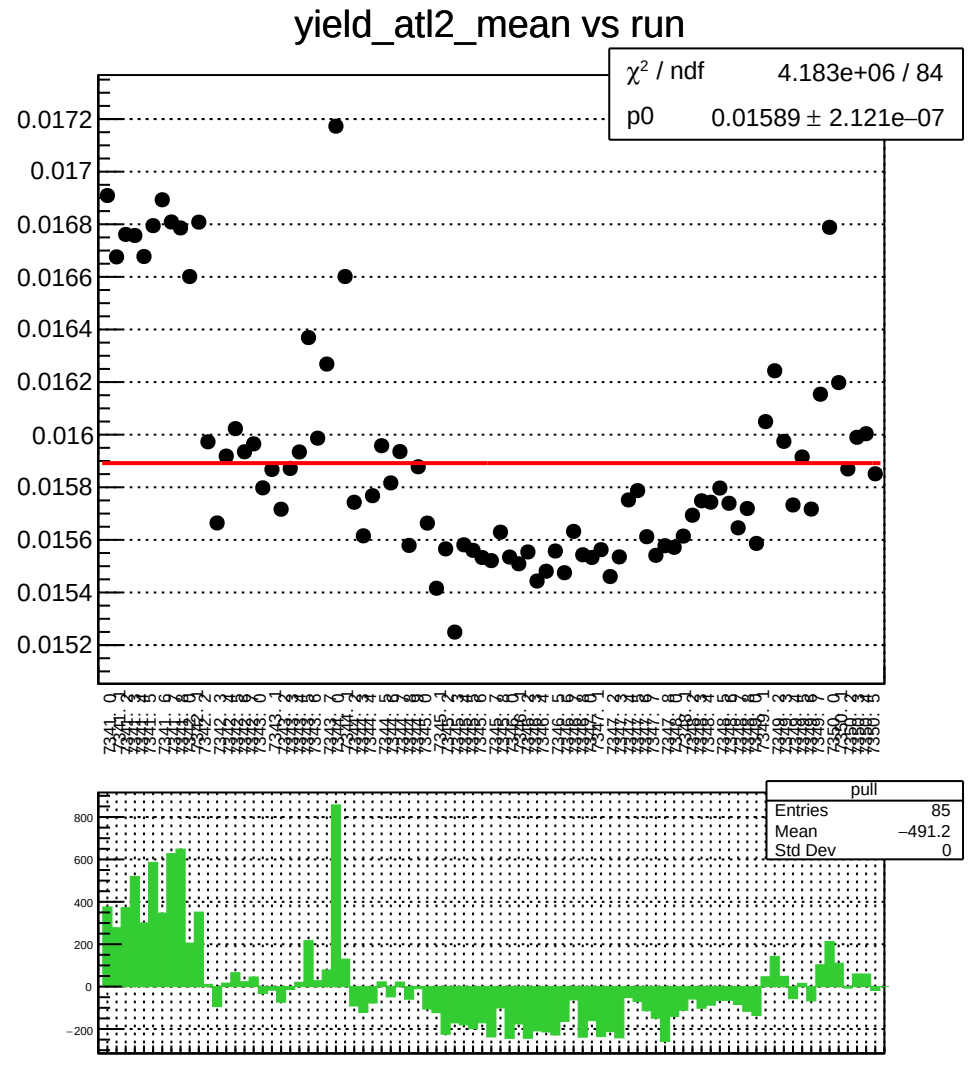

pull1D
Entries 85
Mean 0.927
Std Dev 5.011
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

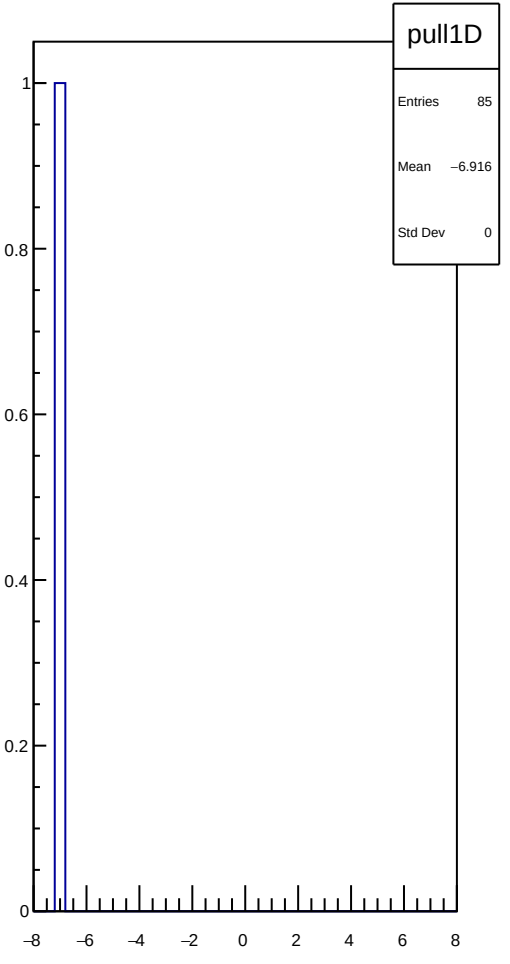

yield_dsr_rms vs run
χ^2 / ndf 6.831e+04 / 84
p0 0.052 ± 4.179e–05
0.09
0.08
0.07
0.06
0.05
0.04

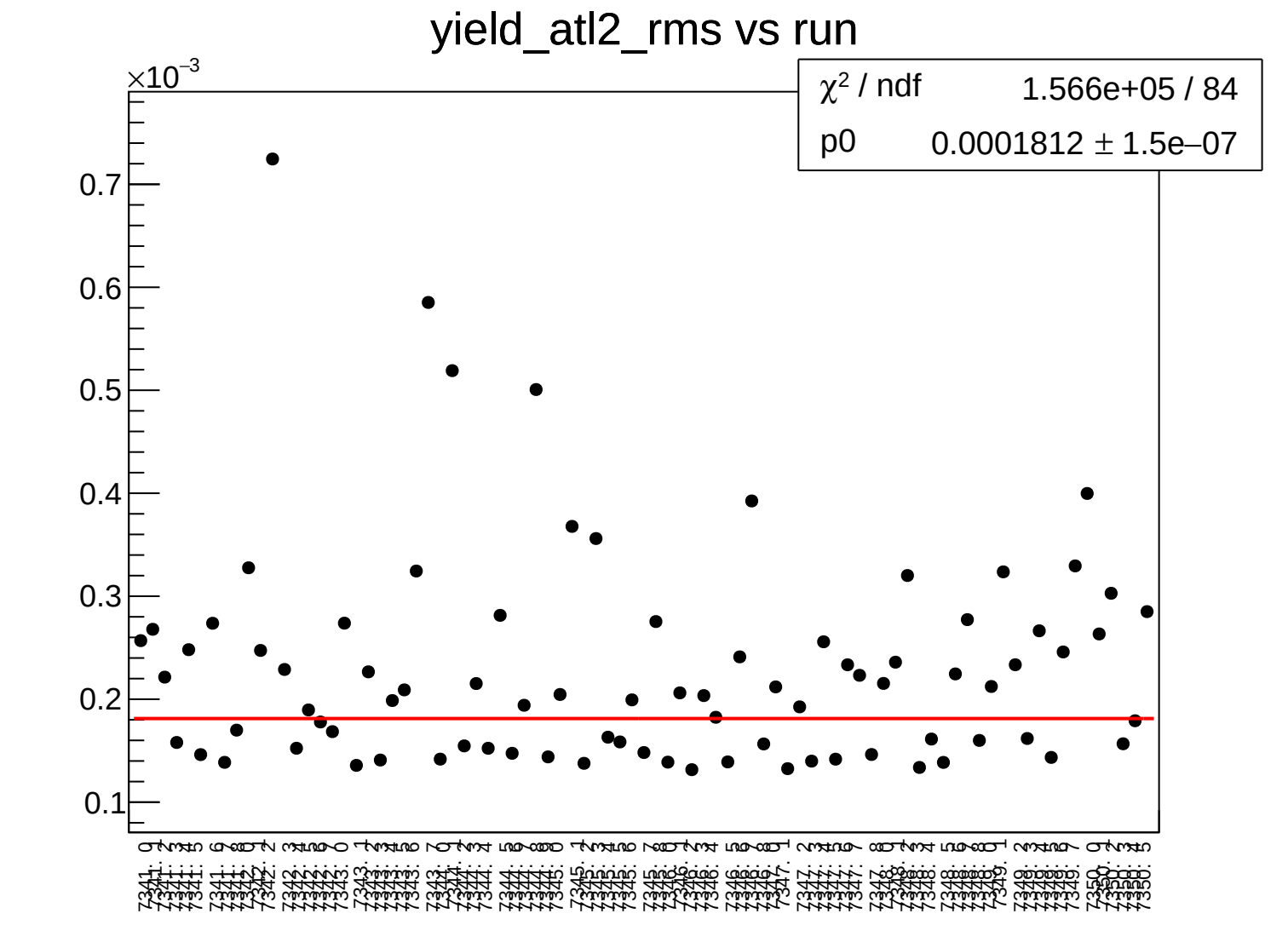

yield_atl1_mean vs run
χ² / ndf 3.304e+05 / 84
p0 0.02597 ± 7.56e−08
0.0261
0.02605
0.026
0.02595
0.0259
0.02585
0.0258
pull
Entries 85
Mean 897.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200

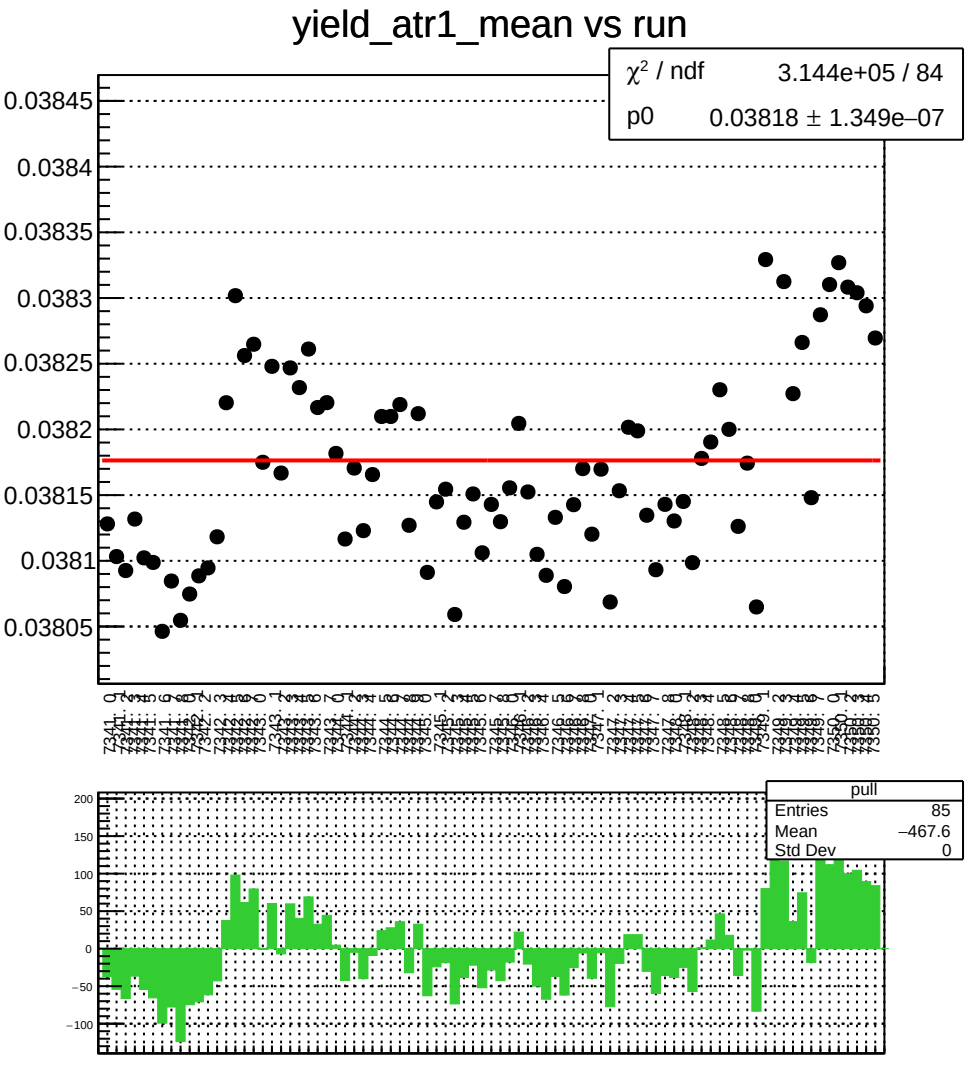

pull1D
Entries 85
Mean 1.387
Std Dev 4.333
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

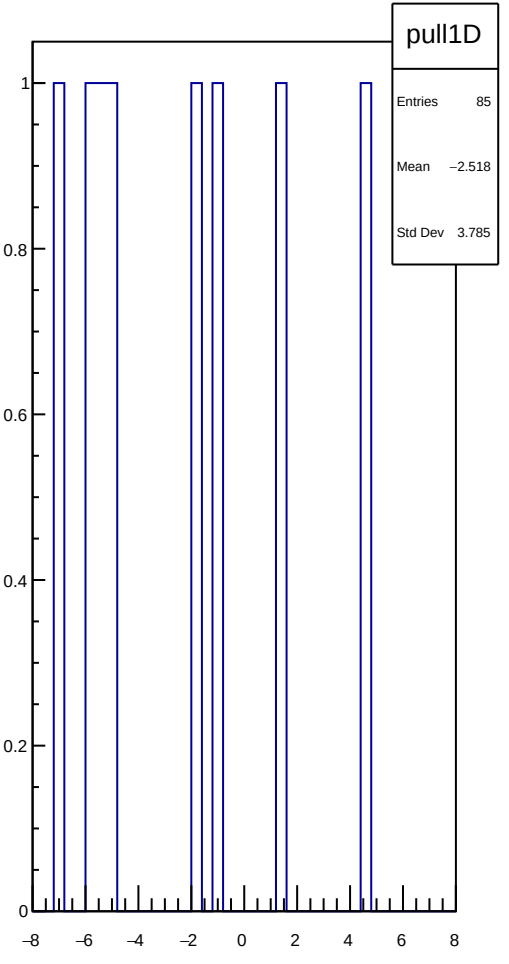

yield_atl1_rms vs run
χ^2 / ndf 8745 / 84
p0 6.778e−05 ± 5.346e−08
×10⁻³
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06

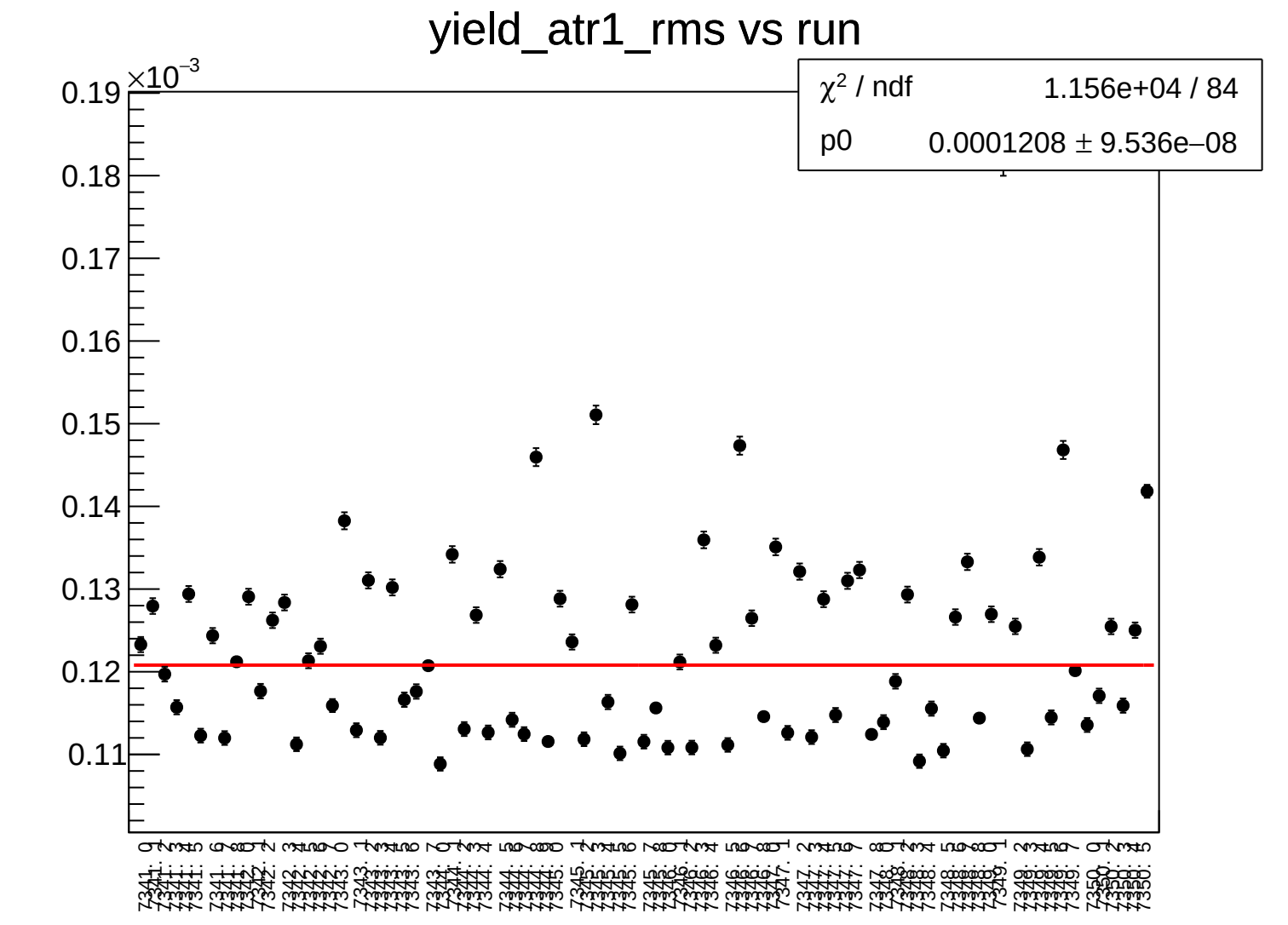

yield_atl2_mean vs run
χ² / ndf 4.183e+06 / 84
p0 0.01589 ± 2.121e–07
0.0172
0.017
0.0168
0.0166
0.0164
0.0162
0.016
0.0158
0.0156
0.0154
0.0152
pull
Entries 85
Mean –491.2
Std Dev 0
800
600
400
200
0
–200

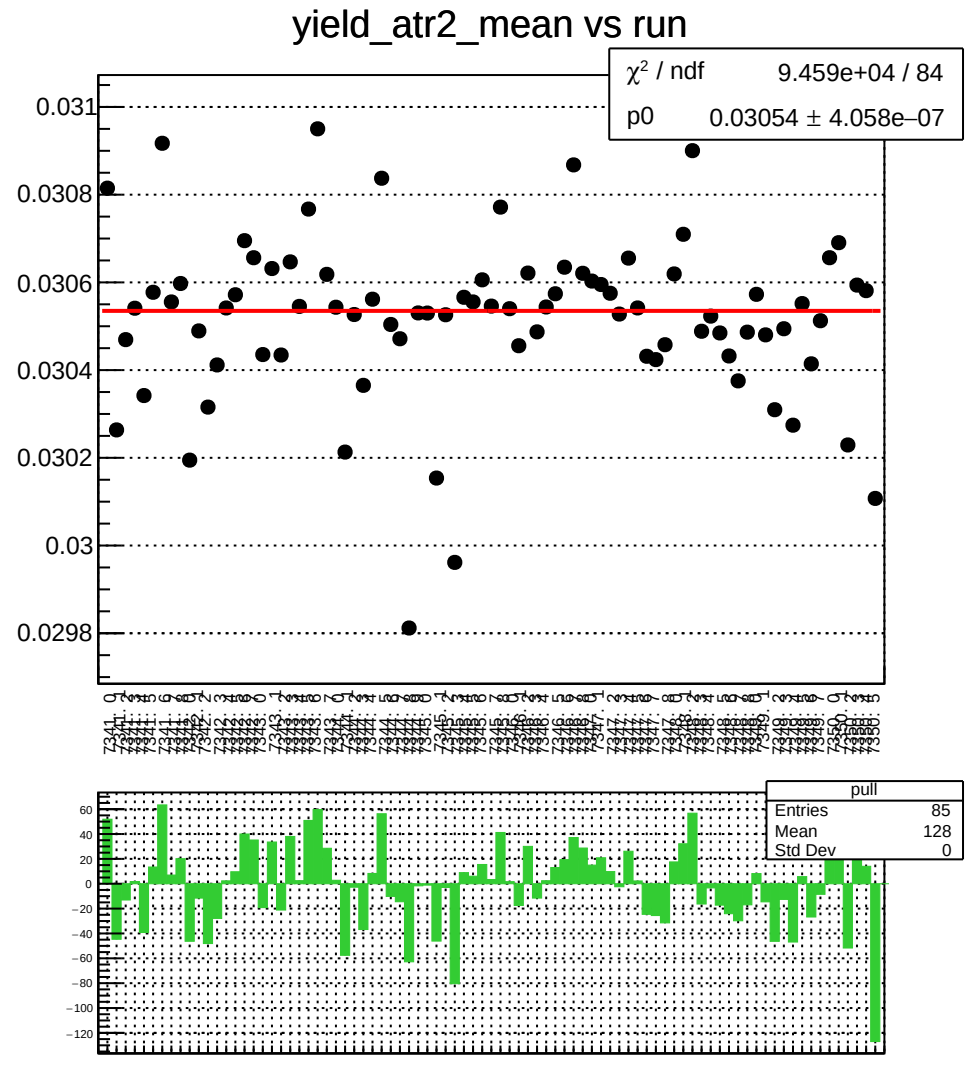

pull1D
Entries 85
Mean –6.916
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

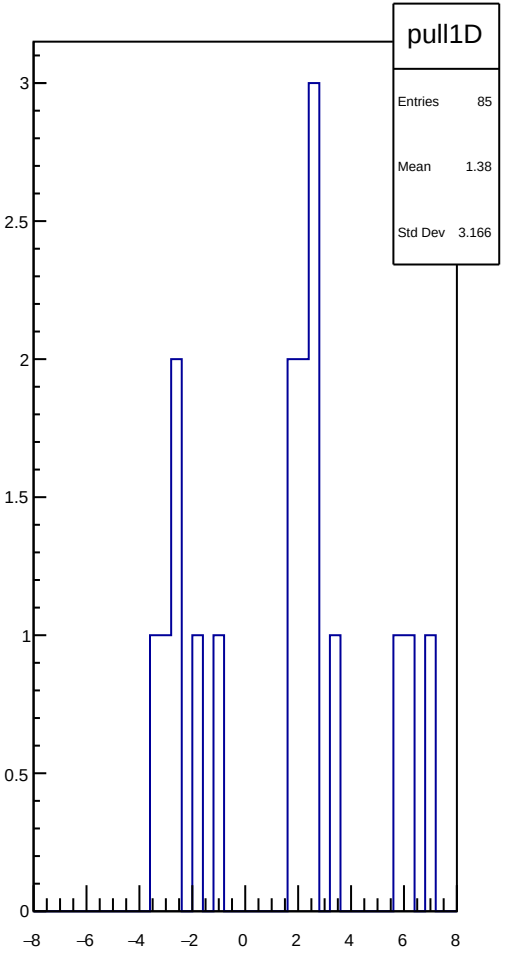

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.566e+05 / 84
p0 0.0001812 ± 1.5e–07
0.7
0.6
0.5
0.4
0.3
0.2
0.1

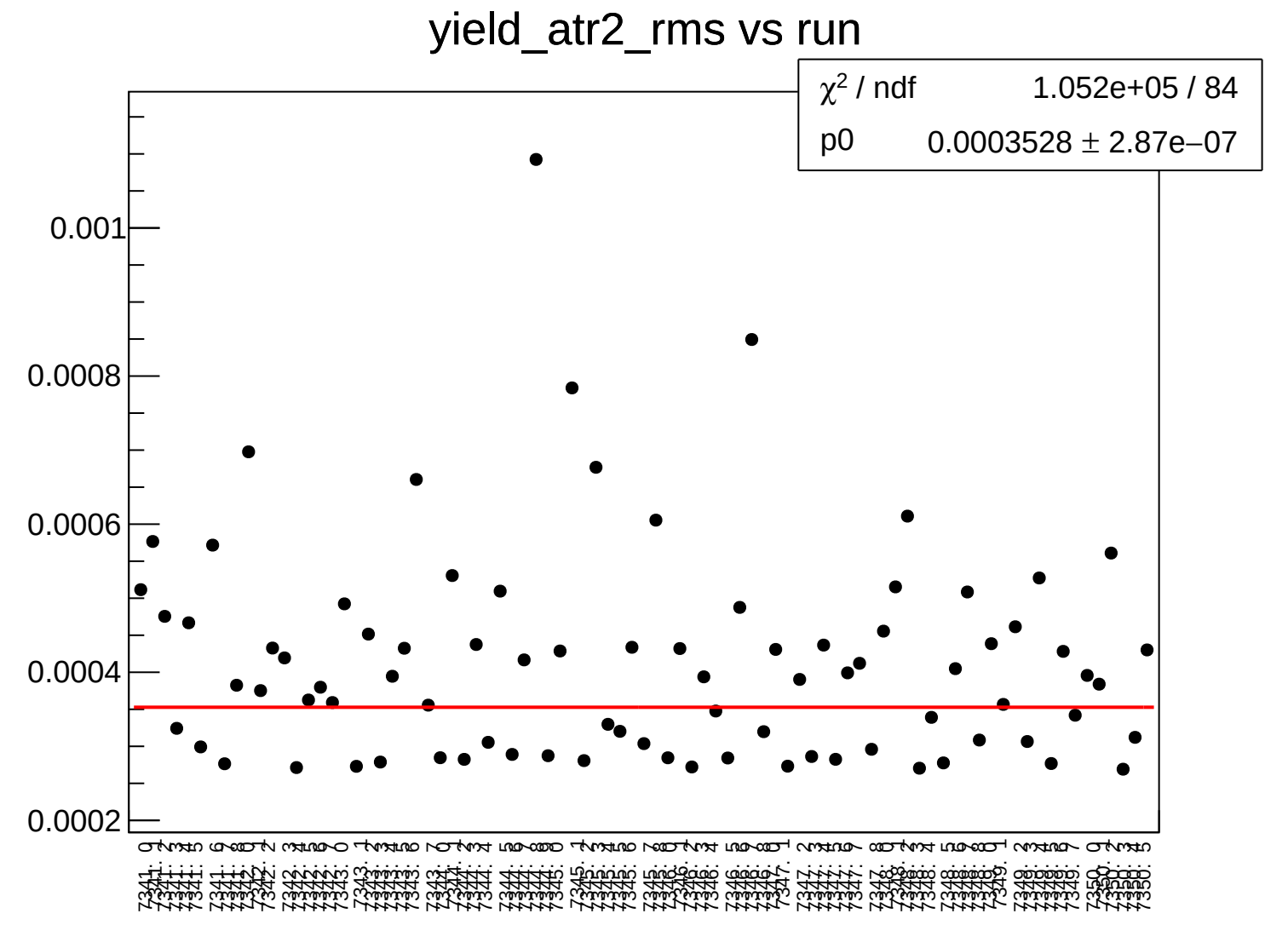

yield_atr1_mean vs run
χ² / ndf 3.144e+05 / 84
p0 0.03818 ± 1.349e−07
0.03845
0.0384
0.03835
0.0383
0.03825
0.0382
0.03815
0.0381
0.03805
pull
Entries 85
Mean −467.6
Std Dev 0
200
150
100
50
0
−50
−100

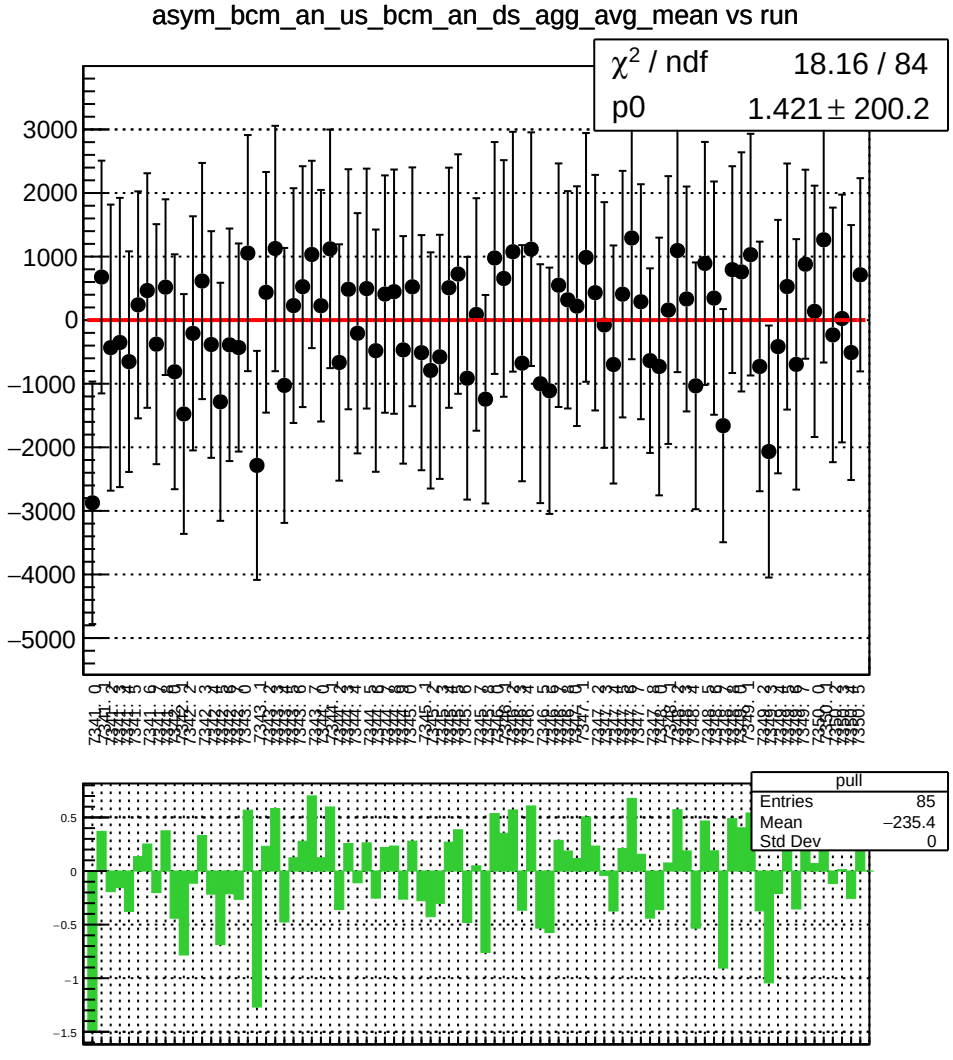

pull1D
Entries 85
Mean −2.518
Std Dev 3.785
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

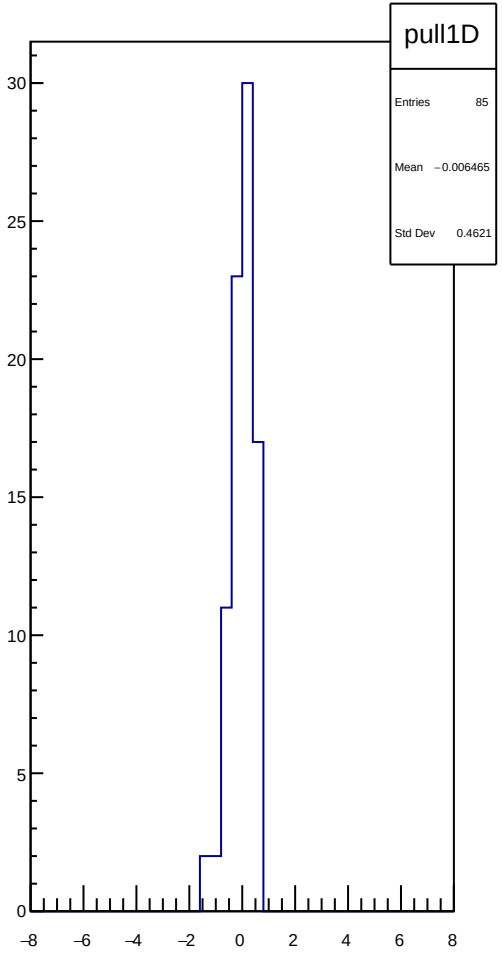

yield_atr1_rms vs run
×10⁻³
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
χ² / ndf 1.156e+04 / 84
p0 0.0001208 ± 9.536e−08

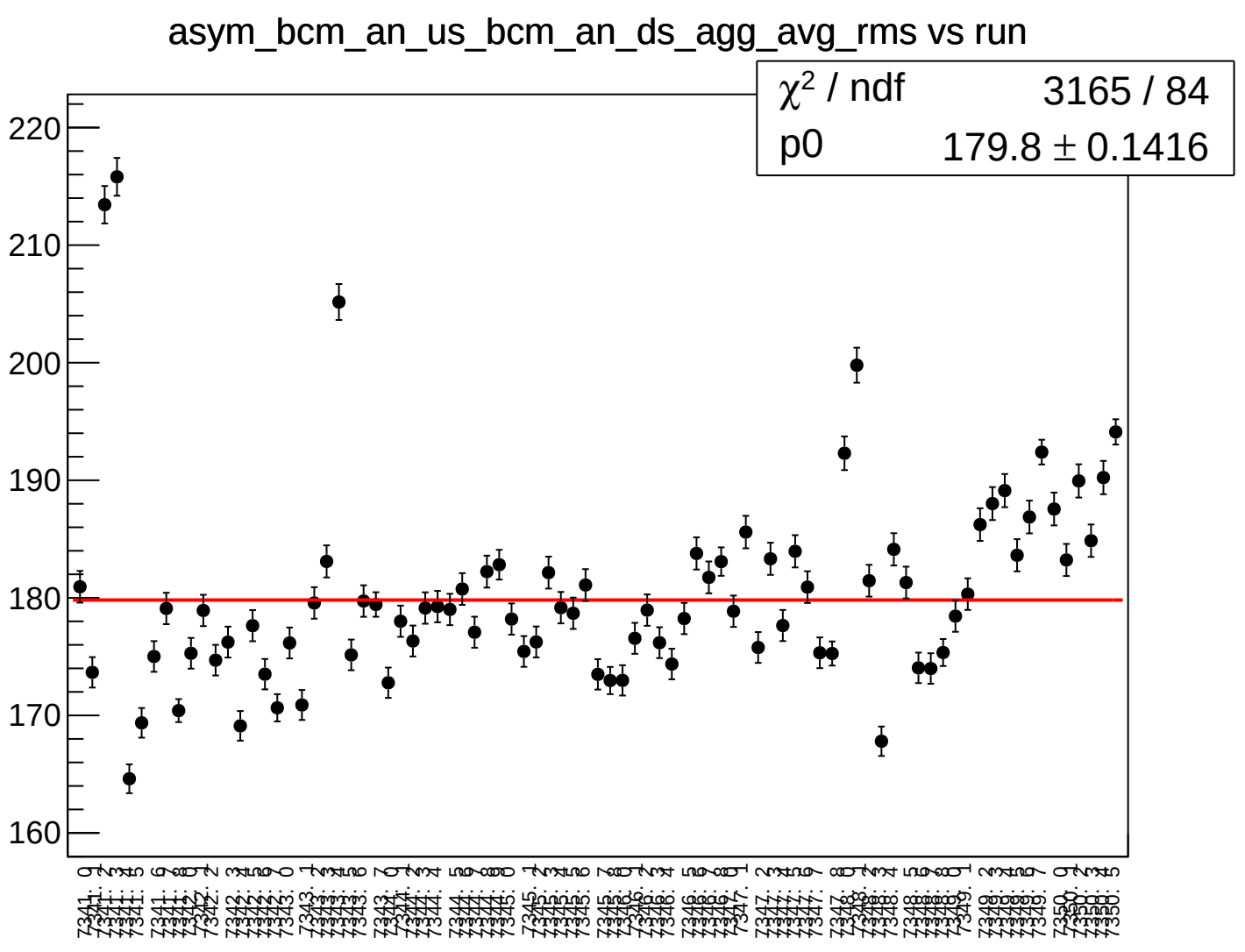

yield_atr2_mean vs run
χ² / ndf 9.459e+04 / 84
p0 0.03054 ± 4.058e−07
0.031
0.0308
0.0306
0.0304
0.0302
0.03
0.0298
pull
Entries 85
Mean 128
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120

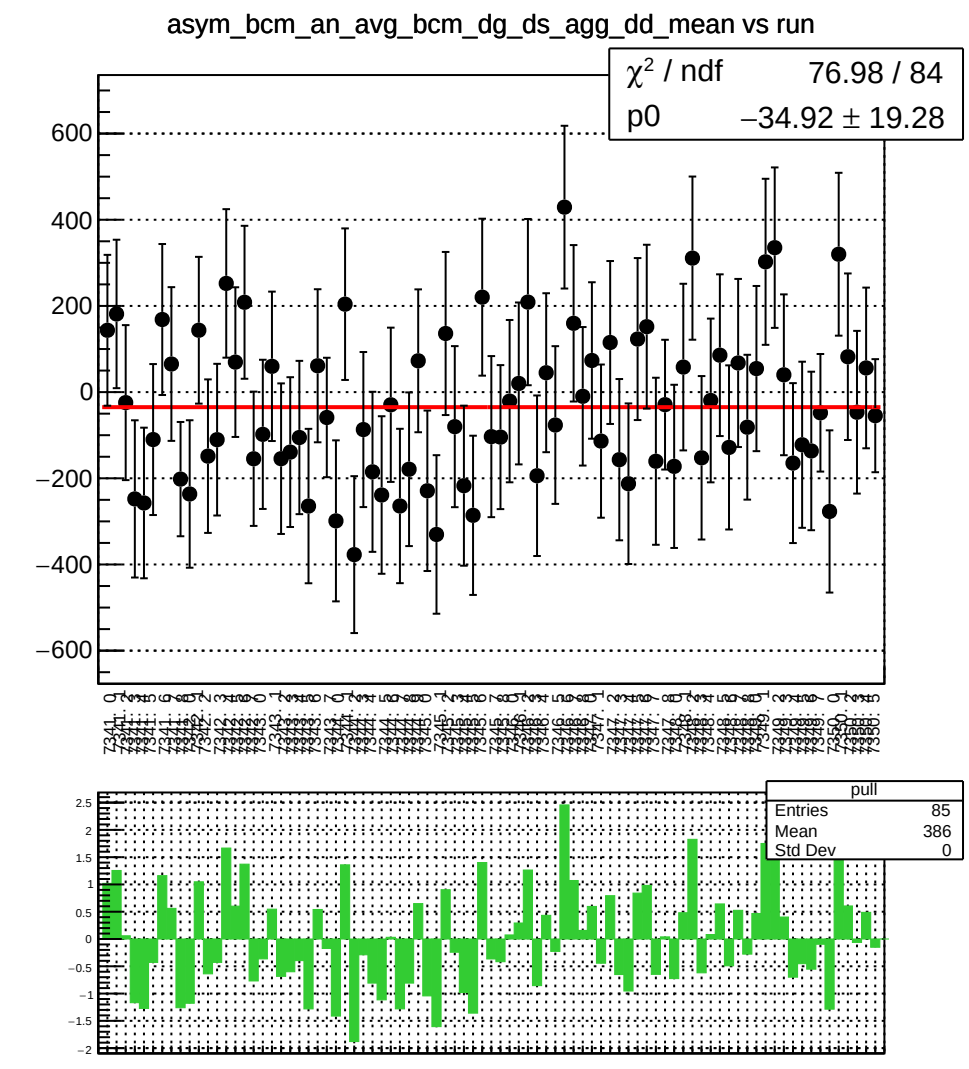

pull1D
Entries 85
Mean 1.38
Std Dev 3.166
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

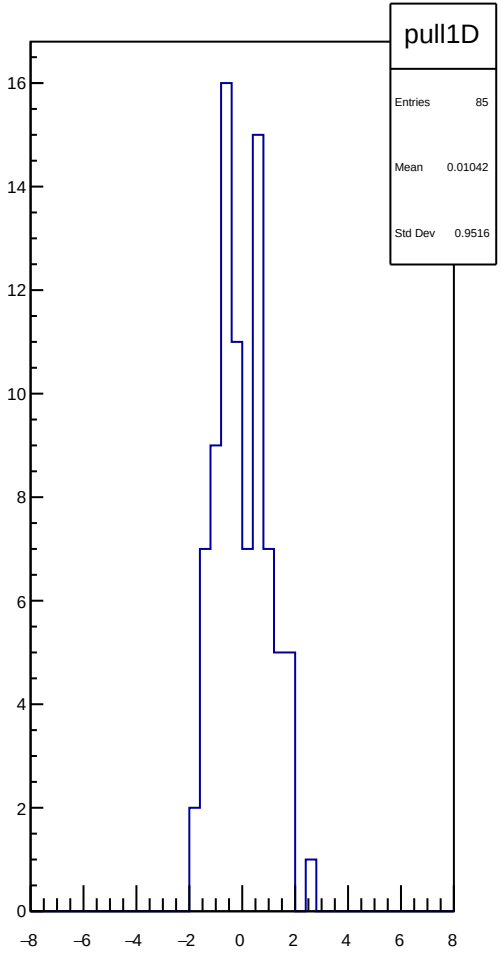

yield_atr2_rms vs run
χ² / ndf 1.052e+05 / 84
p0 0.0003528 ± 2.87e−07
0.001
0.0008
0.0006
0.0004
0.0002

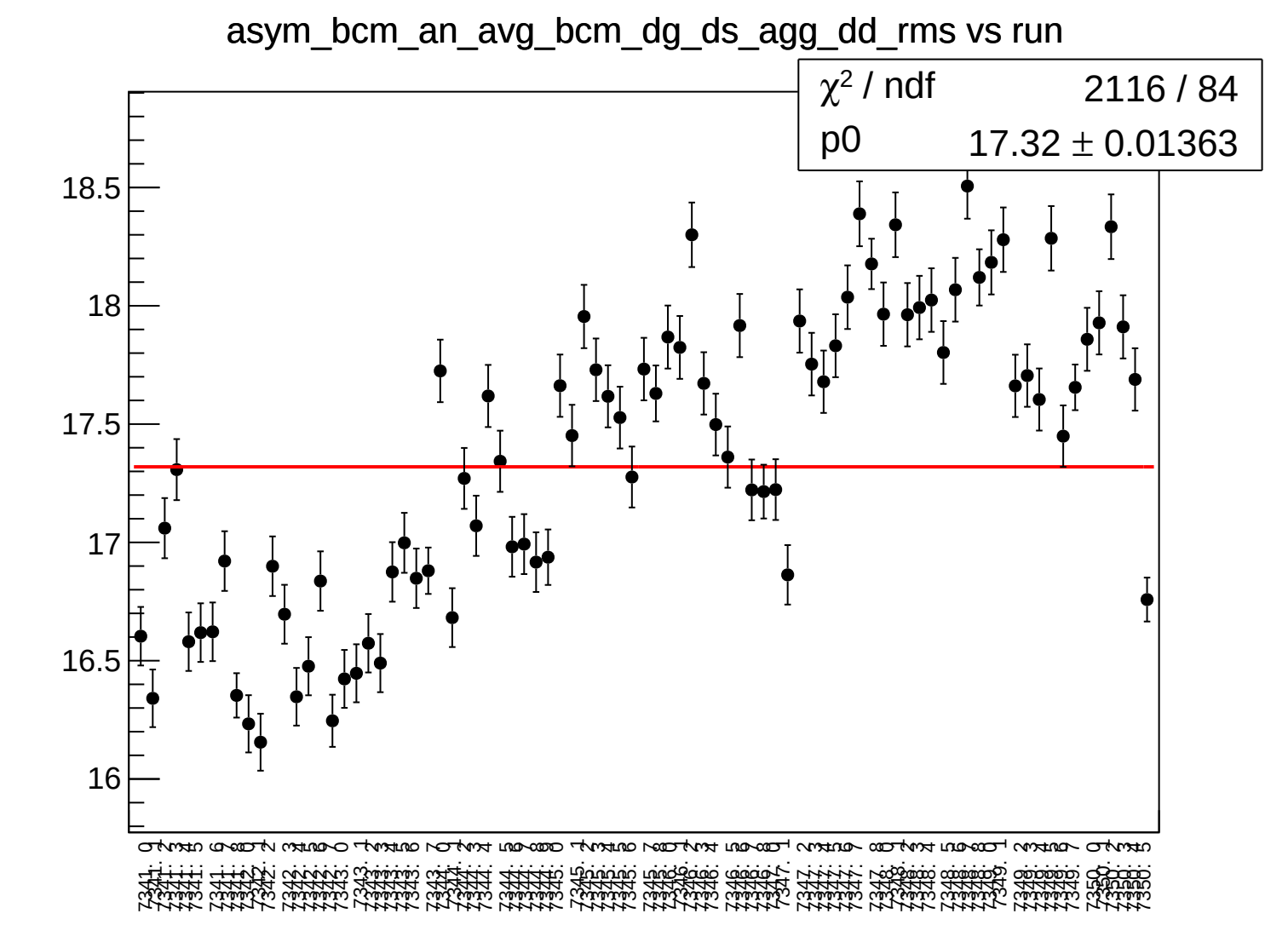

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.16 / 84
p0 1.421 ± 200.2
pull
Entries 85
Mean −235.4
Std Dev 0

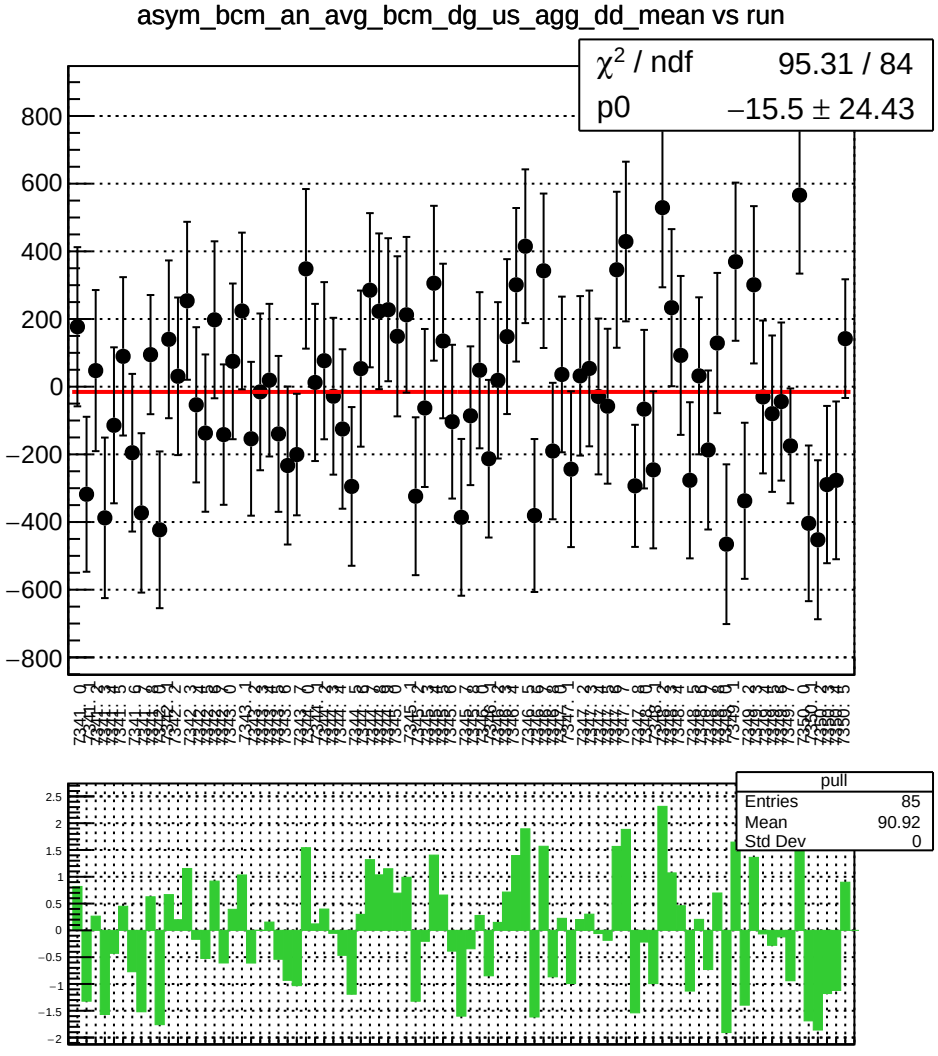

pull1D
Entries 85
Mean −0.006465
Std Dev 0.4621

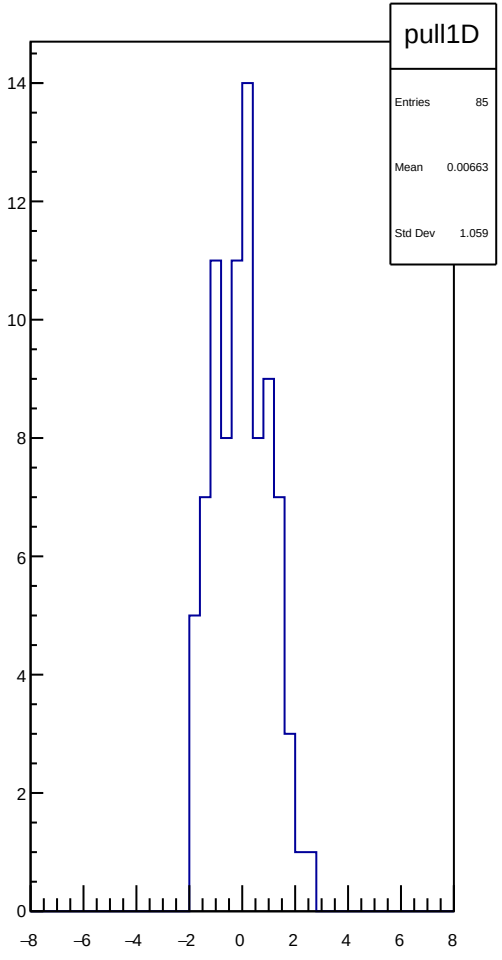

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3165 / 84
p0 179.8 ± 0.1416
220
210
200
190
180
170
160

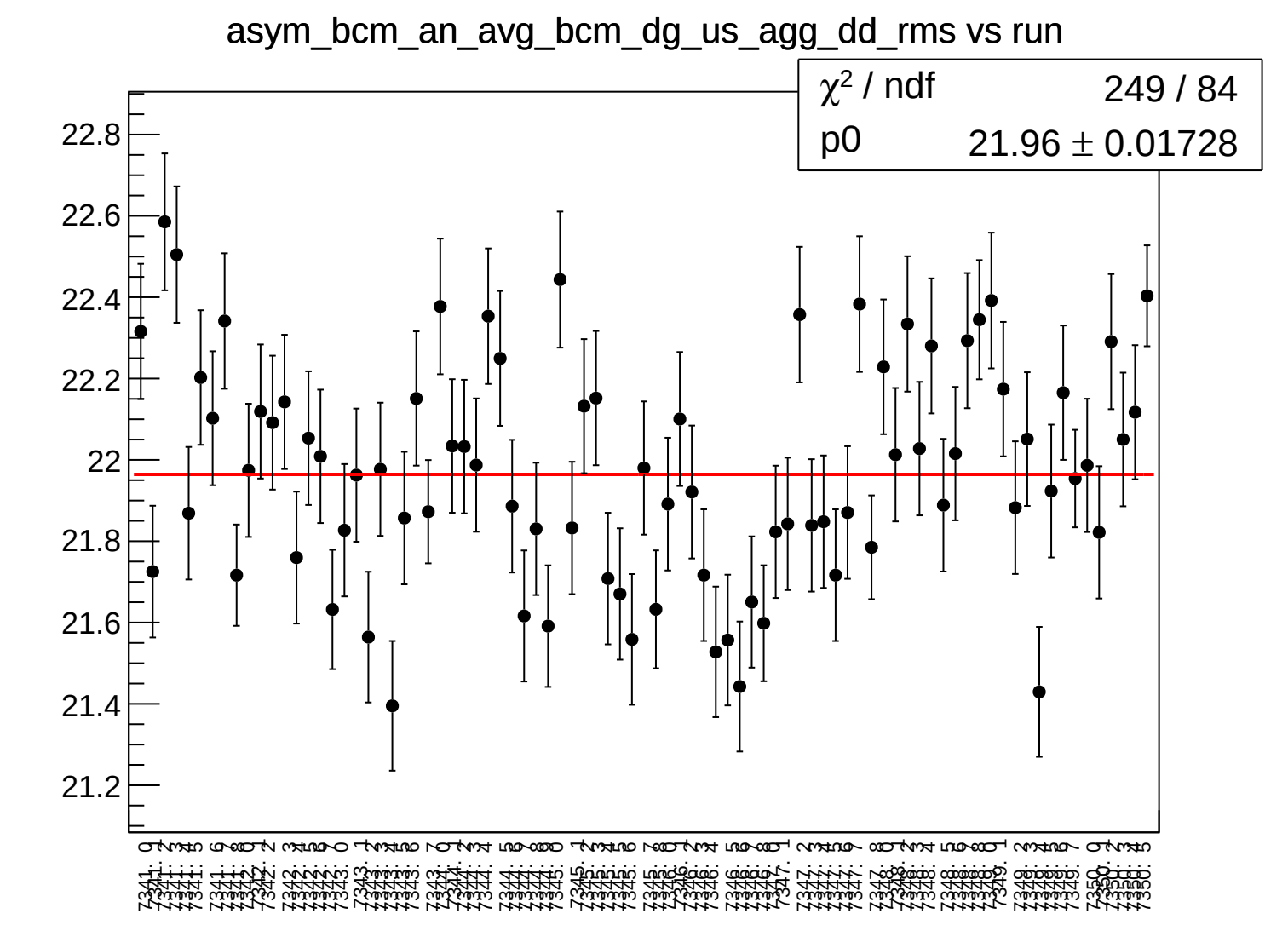

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.98 / 84
p0 −34.92 ± 19.28
pull
Entries 85
Mean 386
Std Dev 0

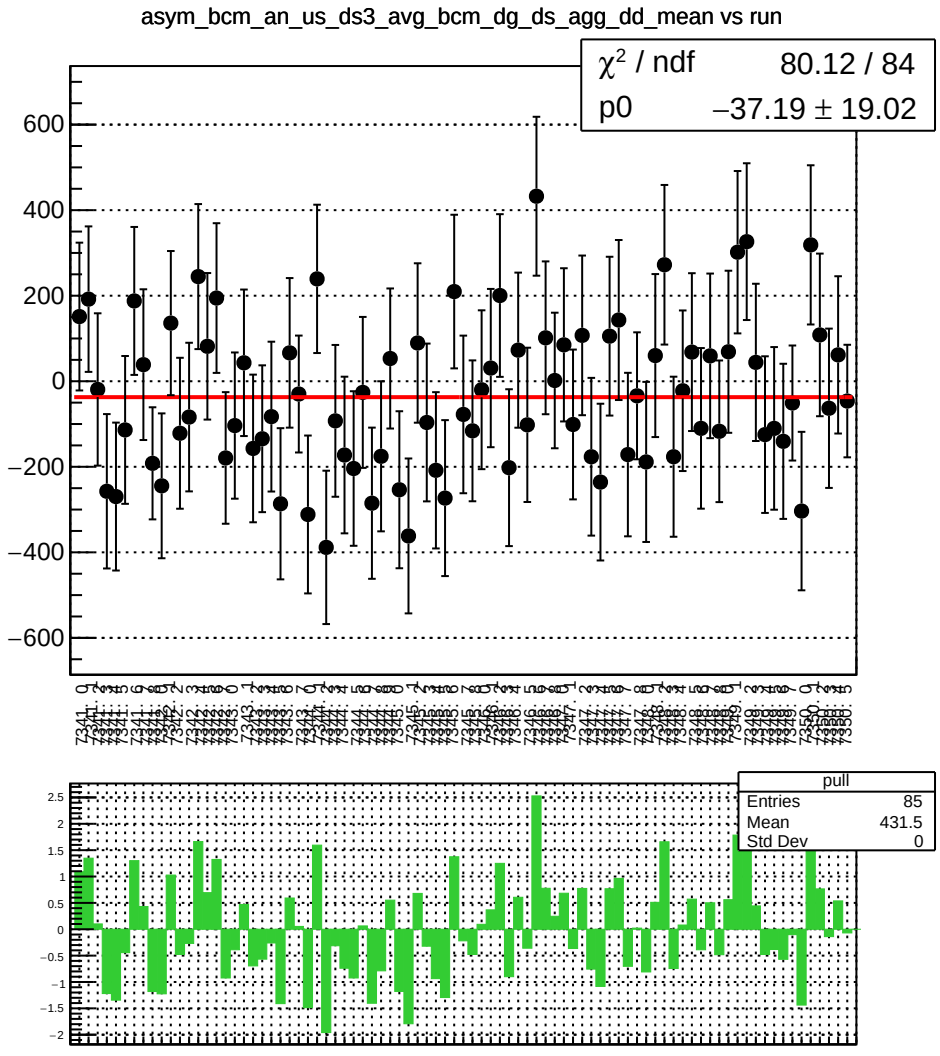

pull1D
Entries 85
Mean 0.01042
Std Dev 0.9516

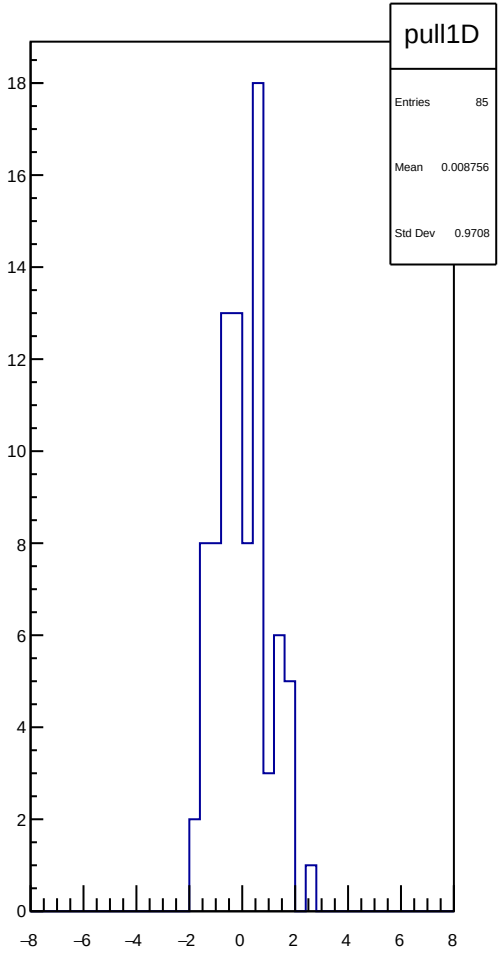

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2116 / 84
p0 17.32 ± 0.01363
18.5
18
17.5
17
16.5
16

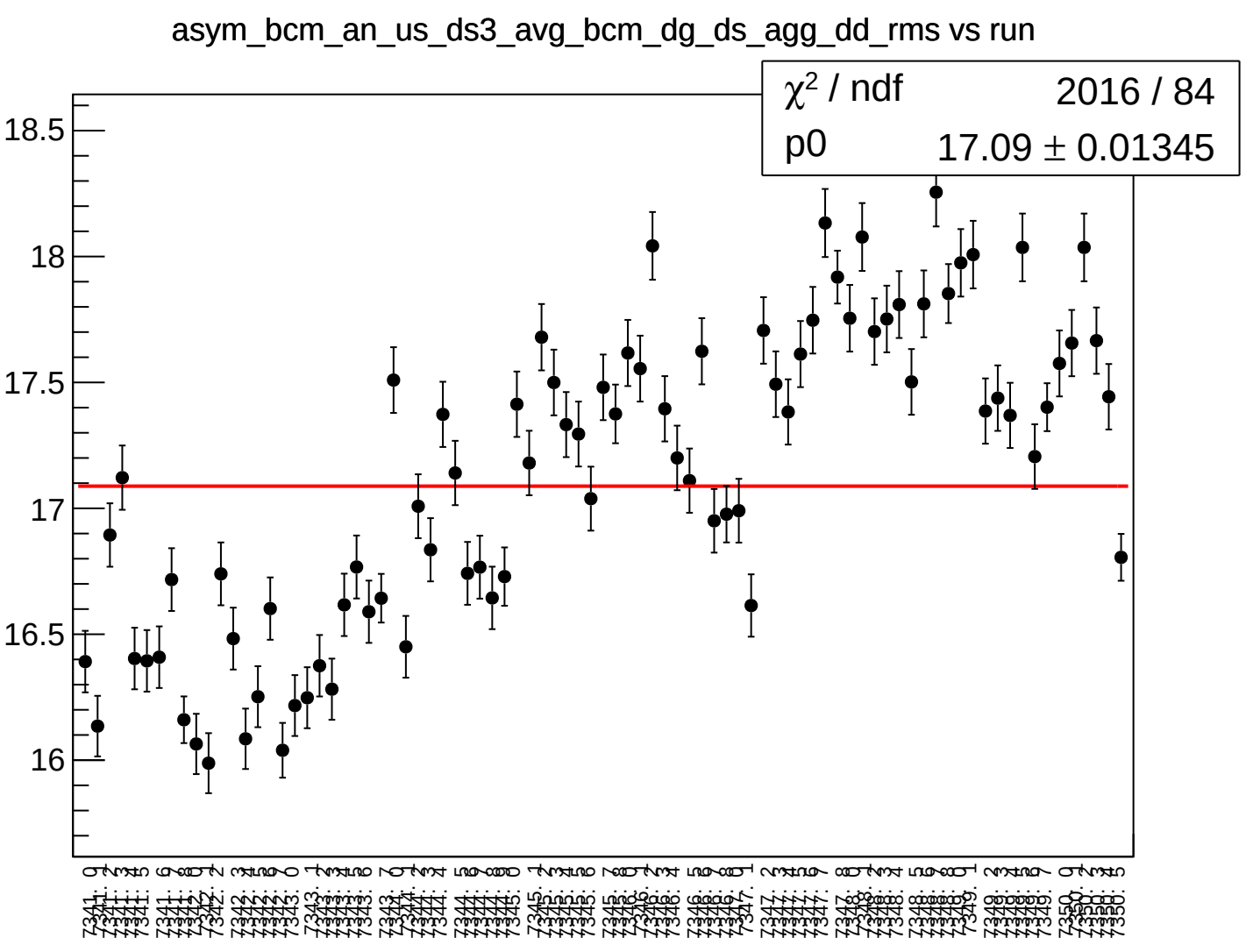

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 95.31 / 84
p0 −15.5 ± 24.43
pull
Entries 85
Mean 90.92
Std Dev 0

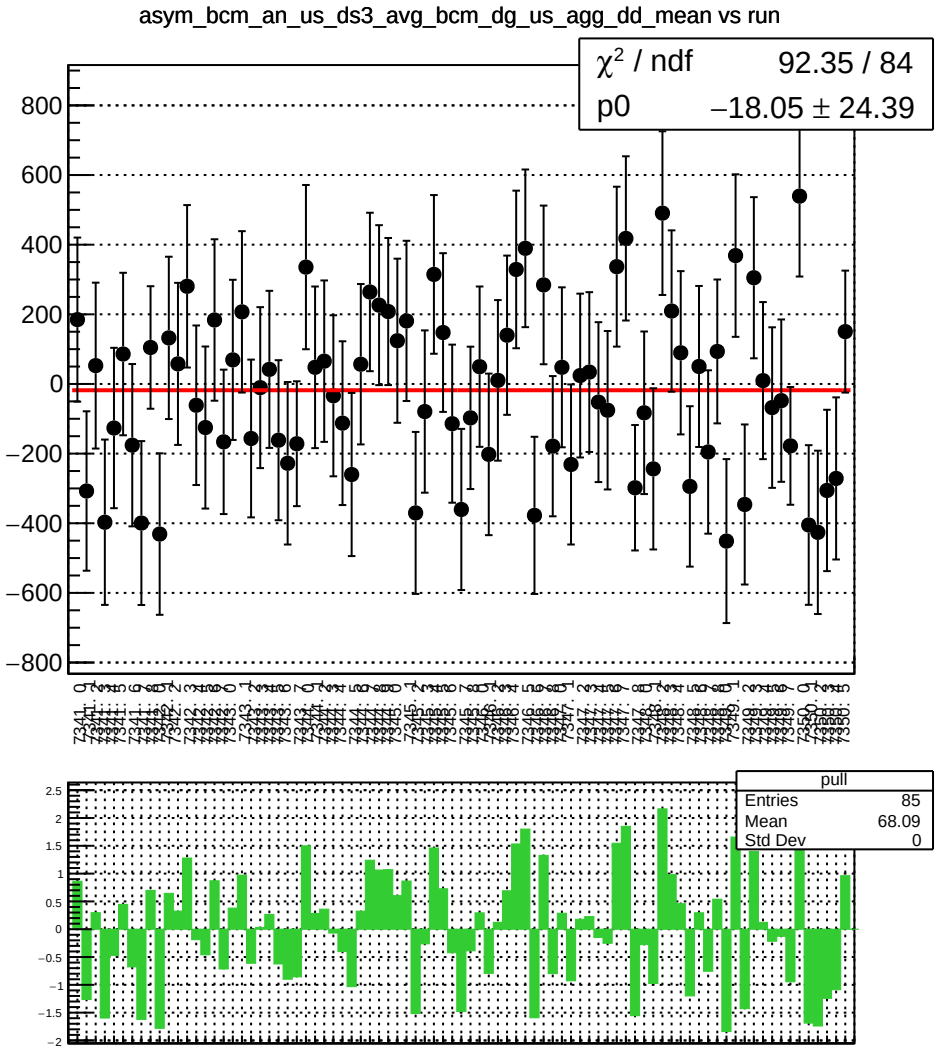

pull1D
Entries 85
Mean 0.00663
Std Dev 1.059

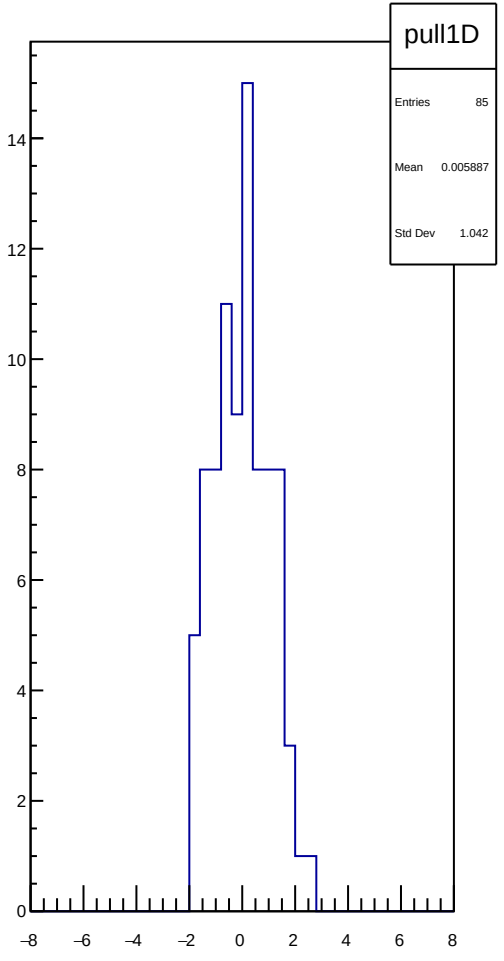

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 249 / 84
p0 21.96 ± 0.01728
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2

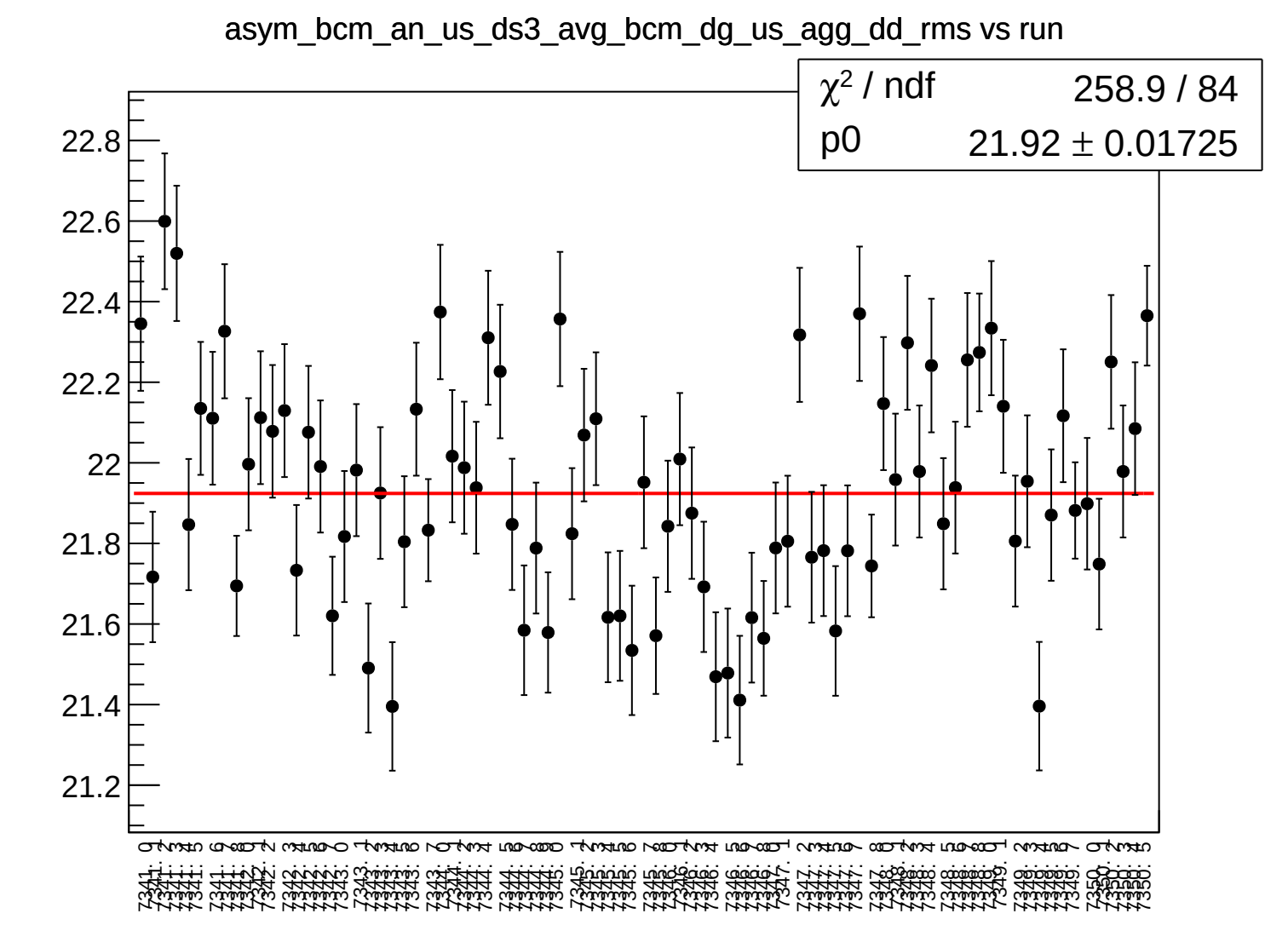

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 80.12 / 84
p0 −37.19 ± 19.02
pull
Entries 85
Mean 431.5
Std Dev 0

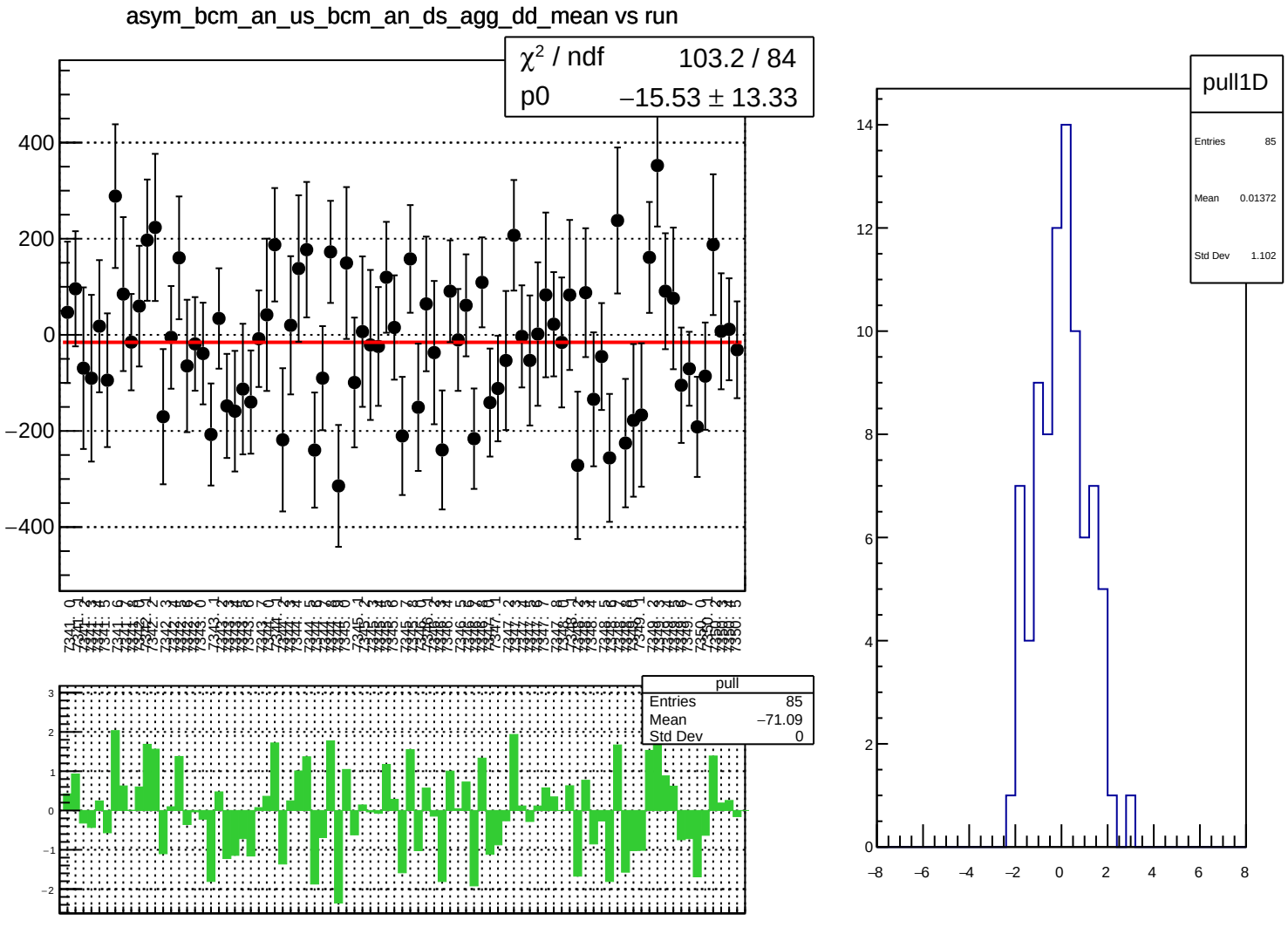

pull1D
Entries 85
Mean 0.008756
Std Dev 0.9708

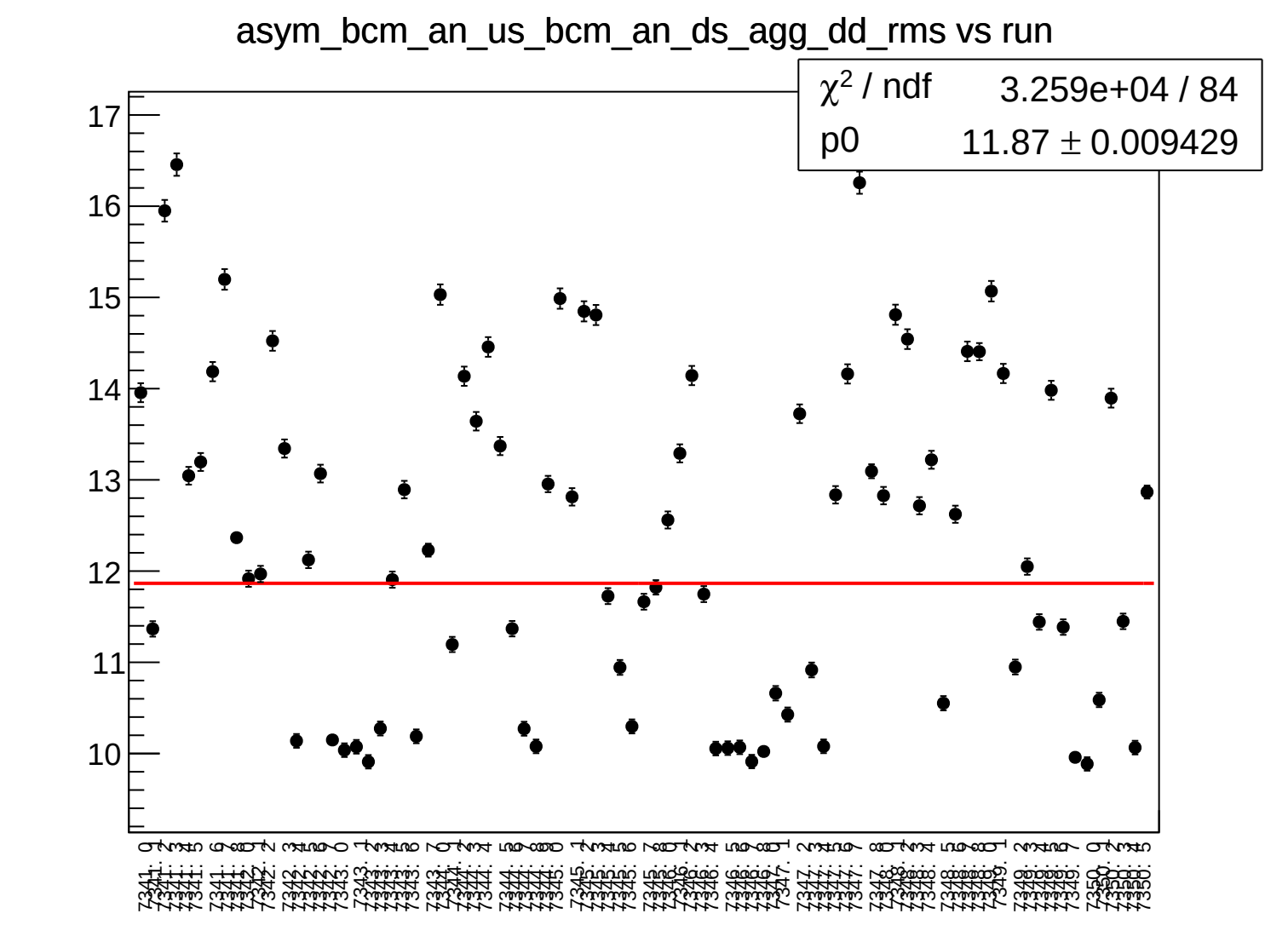

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2016 / 84
p0 17.09 ± 0.01345
18.5
18
17.5
17
16.5
16

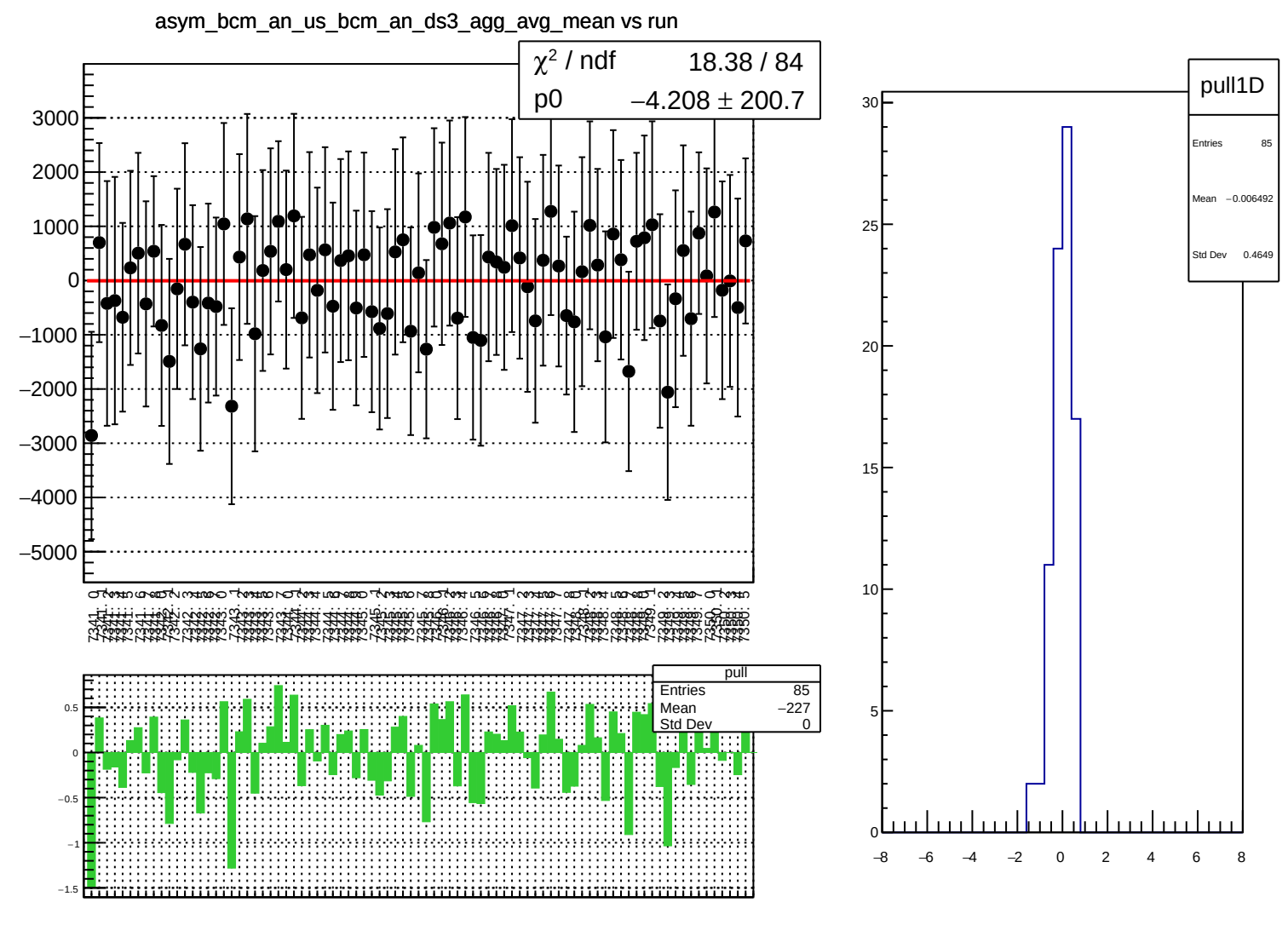

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 92.35 / 84
p0 −18.05 ± 24.39
pull
Entries 85
Mean 68.09
Std Dev 0

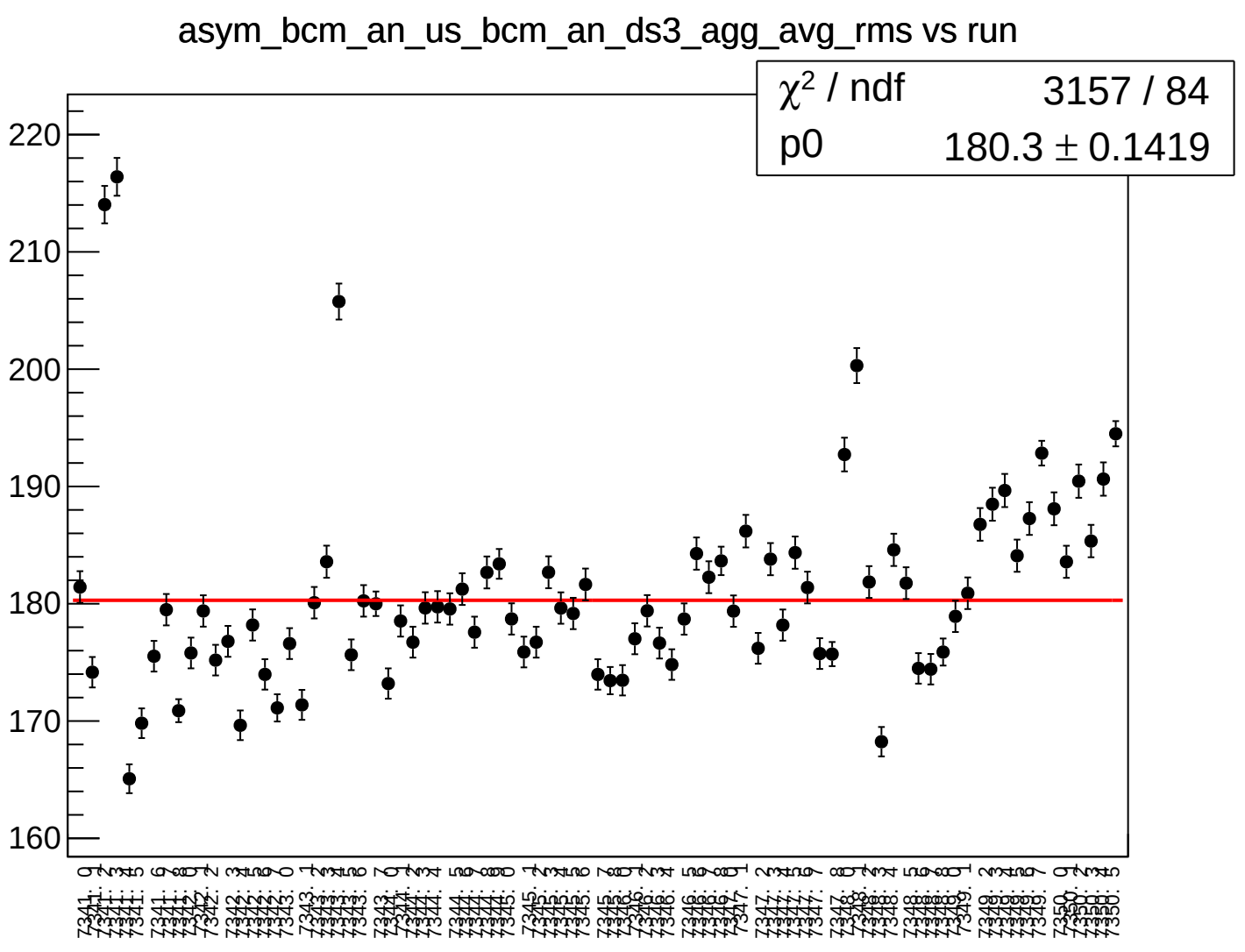

pull1D
Entries 85
Mean 0.005887
Std Dev 1.042

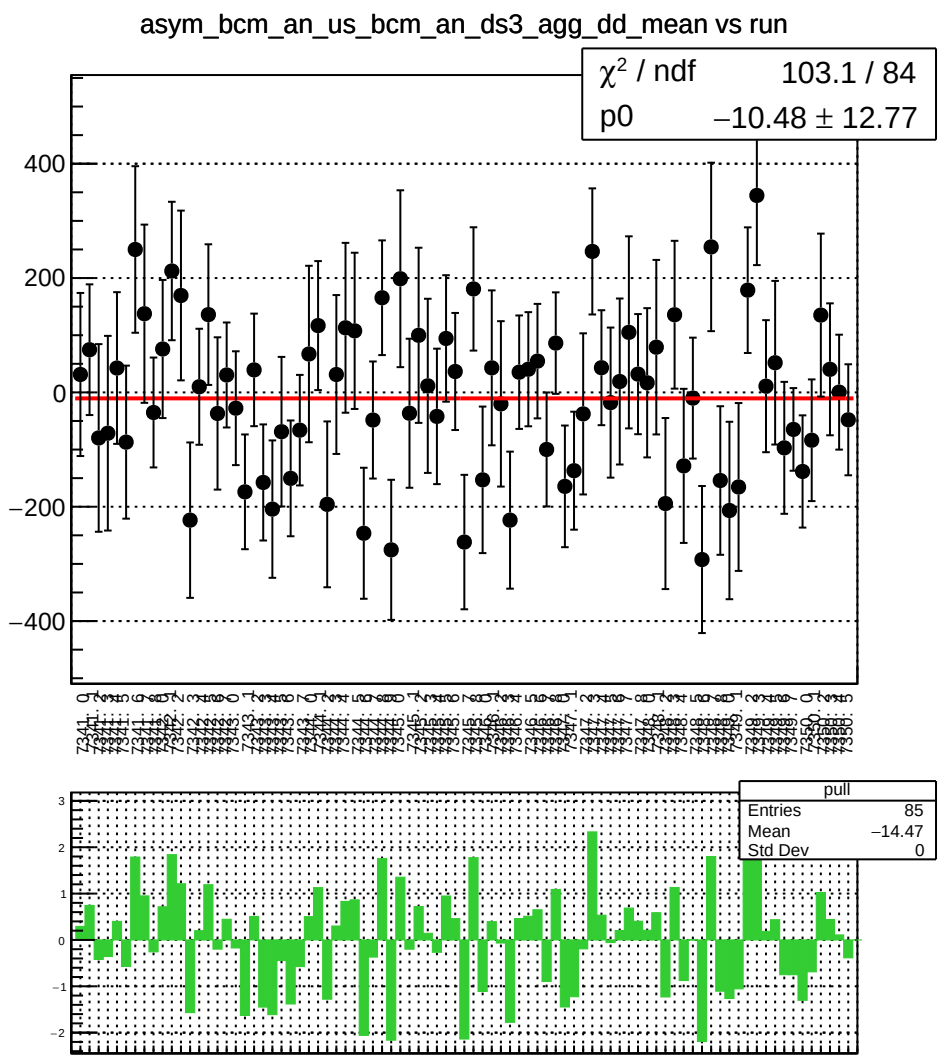

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 258.9 / 84
p0 21.92 ± 0.01725
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2

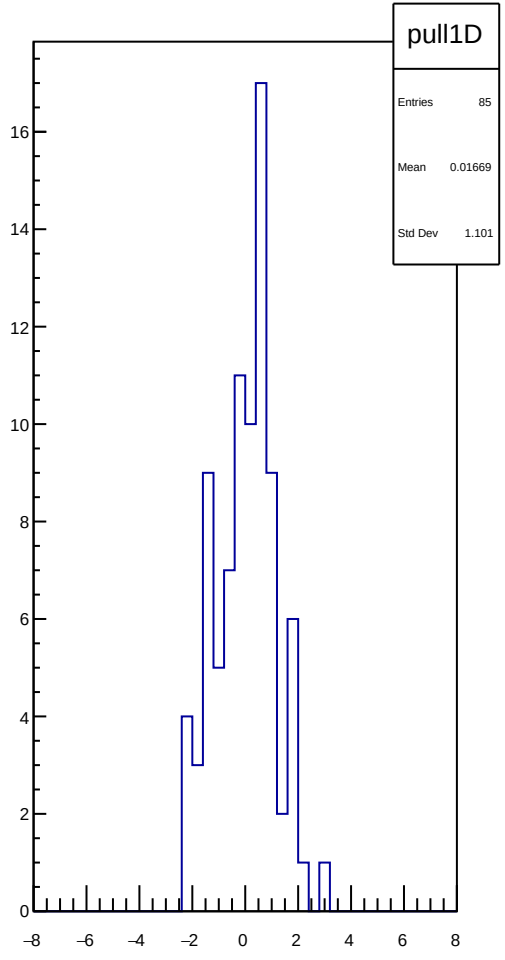

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 103.2 / 84
p0 −15.53 ± 13.33
400
200
0
−200
−400
pull
Entries 85
Mean −71.09
Std Dev 0
pull1D
Entries 85
Mean 0.01372
Std Dev 1.102

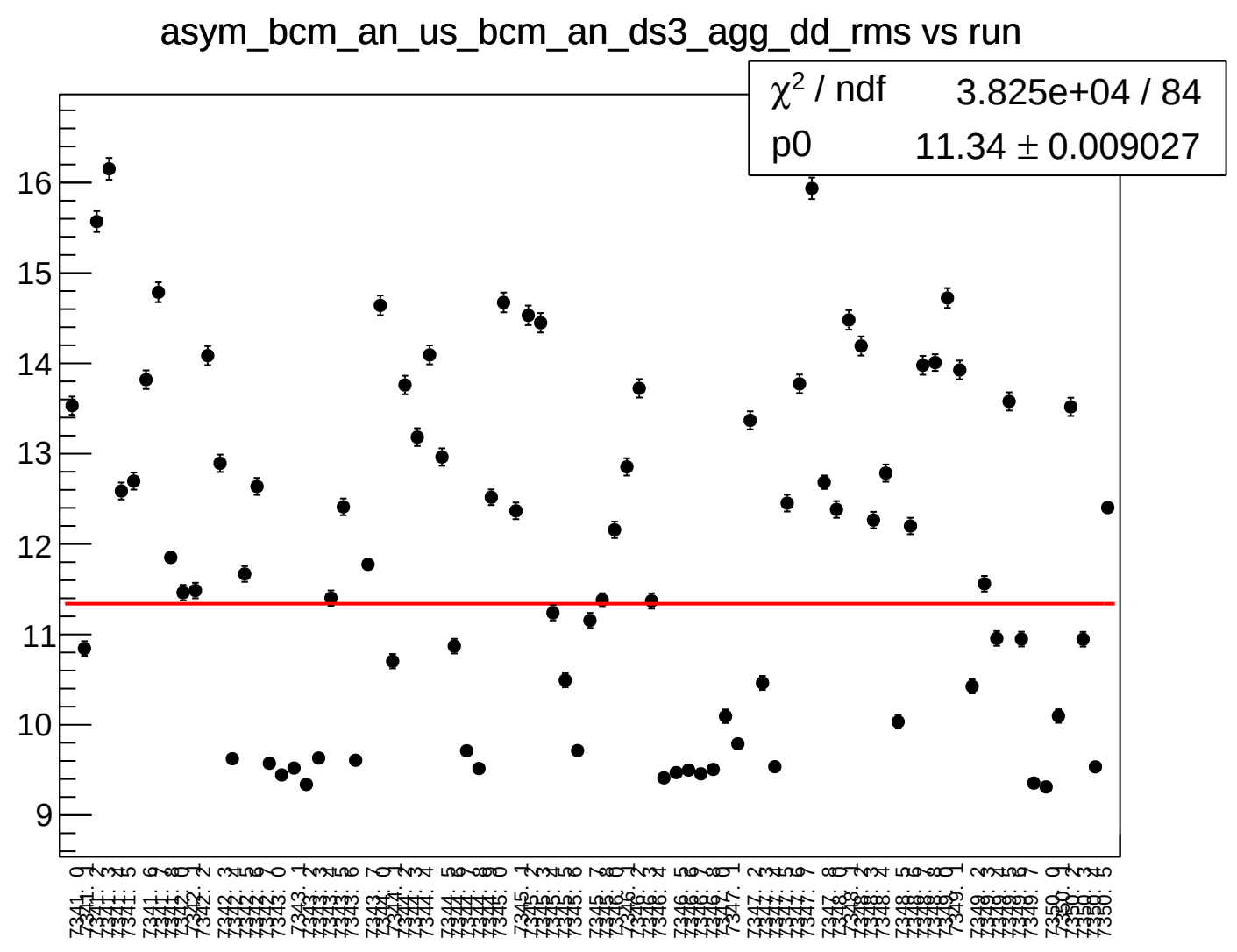

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.259e+04 / 84
p0 11.87 ± 0.009429
17
16
15
14
13
12
11
10

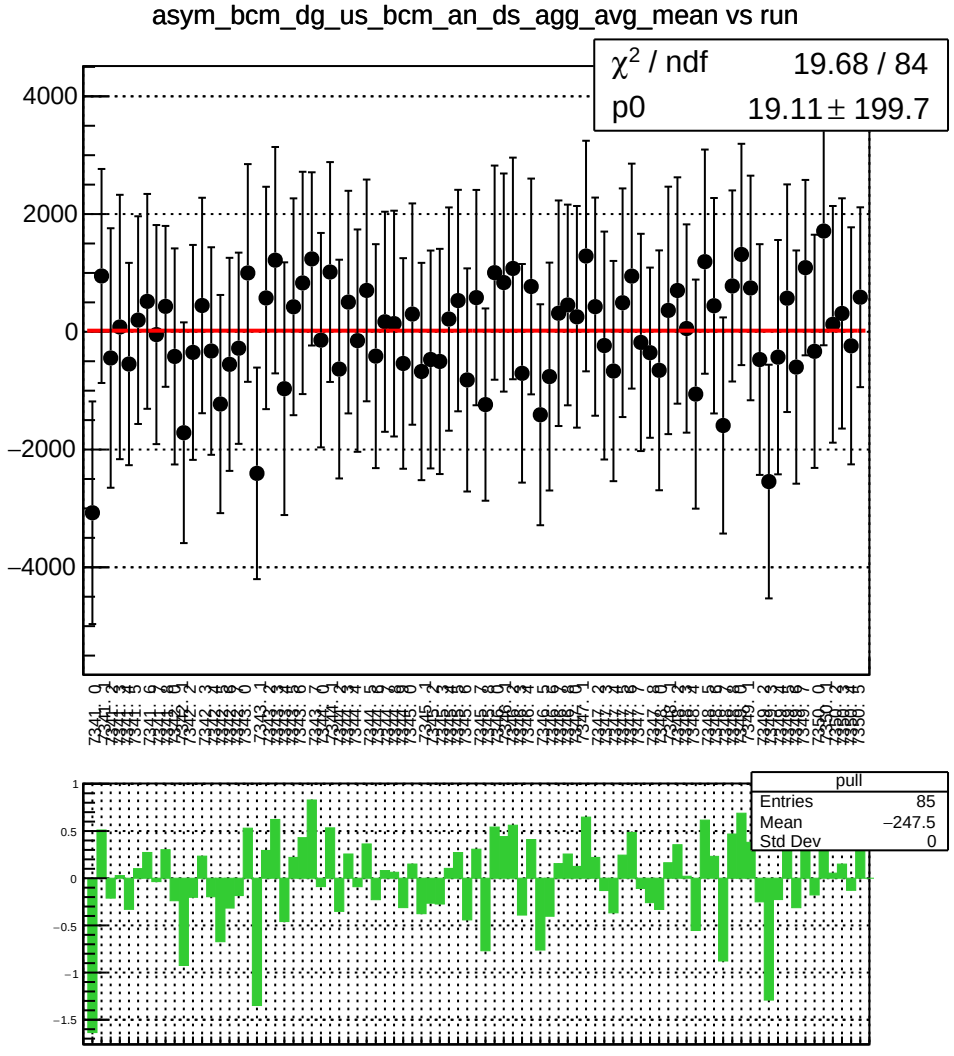

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 18.38 / 84
p0 −4.208 ± 200.7
pull
Entries 85
Mean −227
Std Dev 0
pull1D
Entries 85
Mean −0.006492
Std Dev 0.4649

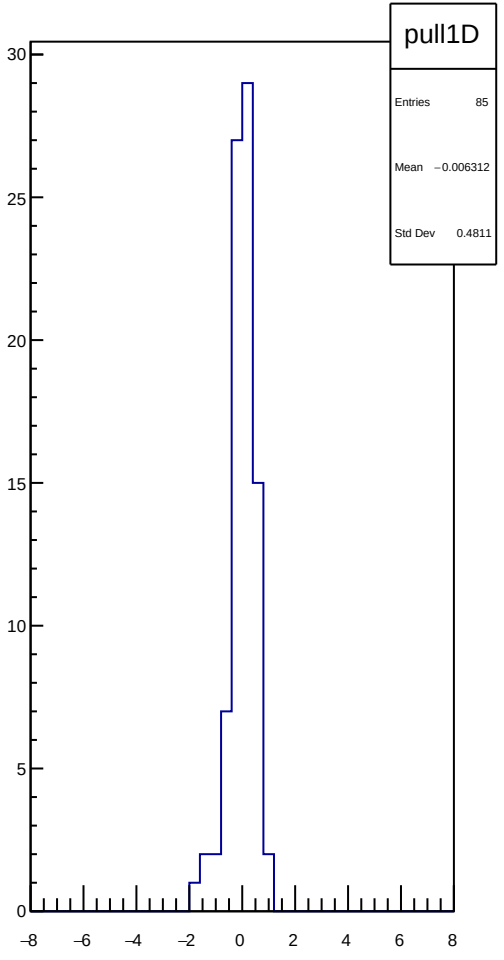

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3157 / 84
p0 180.3 ± 0.1419
220
210
200
190
180
170
160

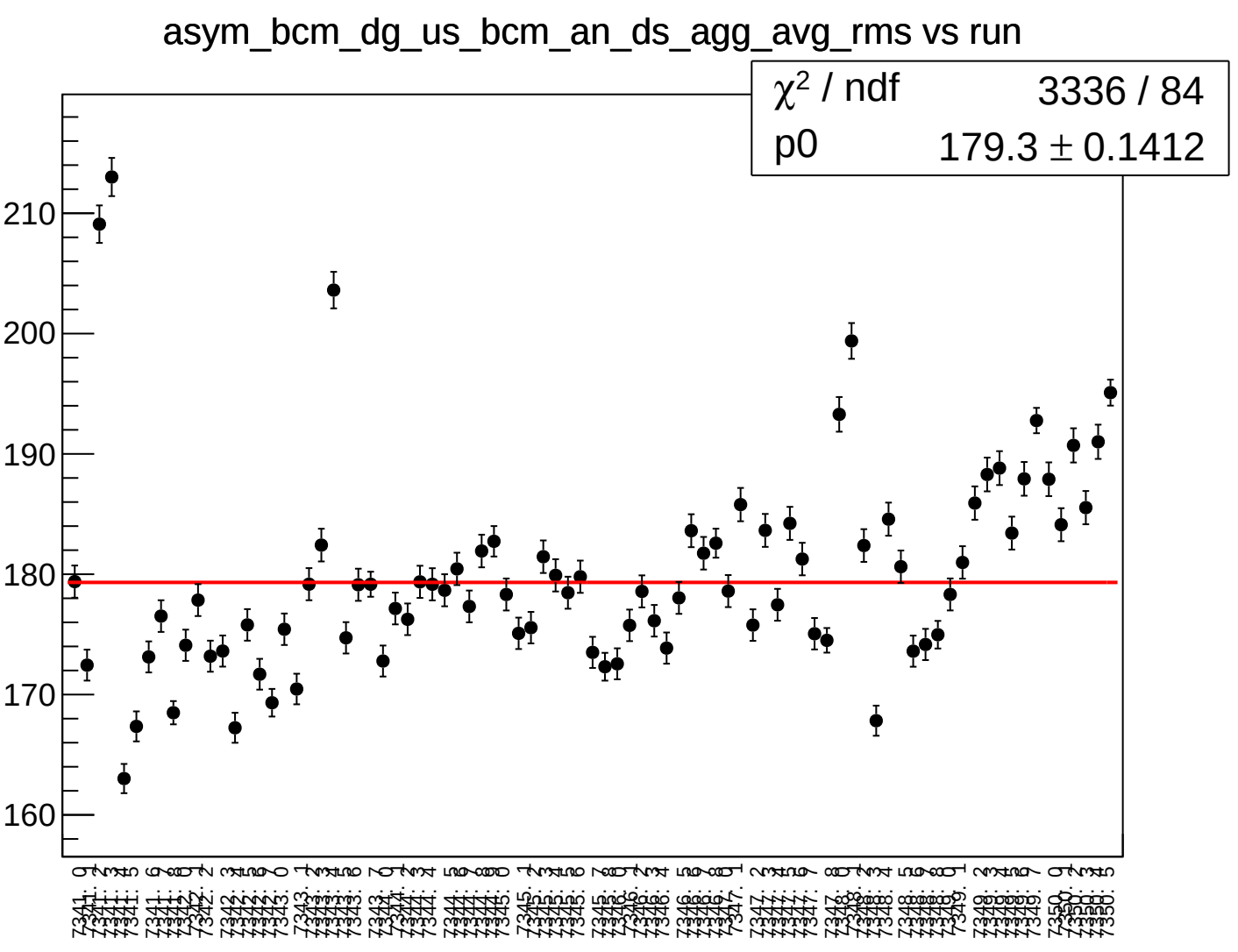

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 103.1 / 84
p0 −10.48 ± 12.77
400
200
0
−200
−400
pull
Entries 85
Mean −14.47
Std Dev 0
3
2
1
0
−1
−2

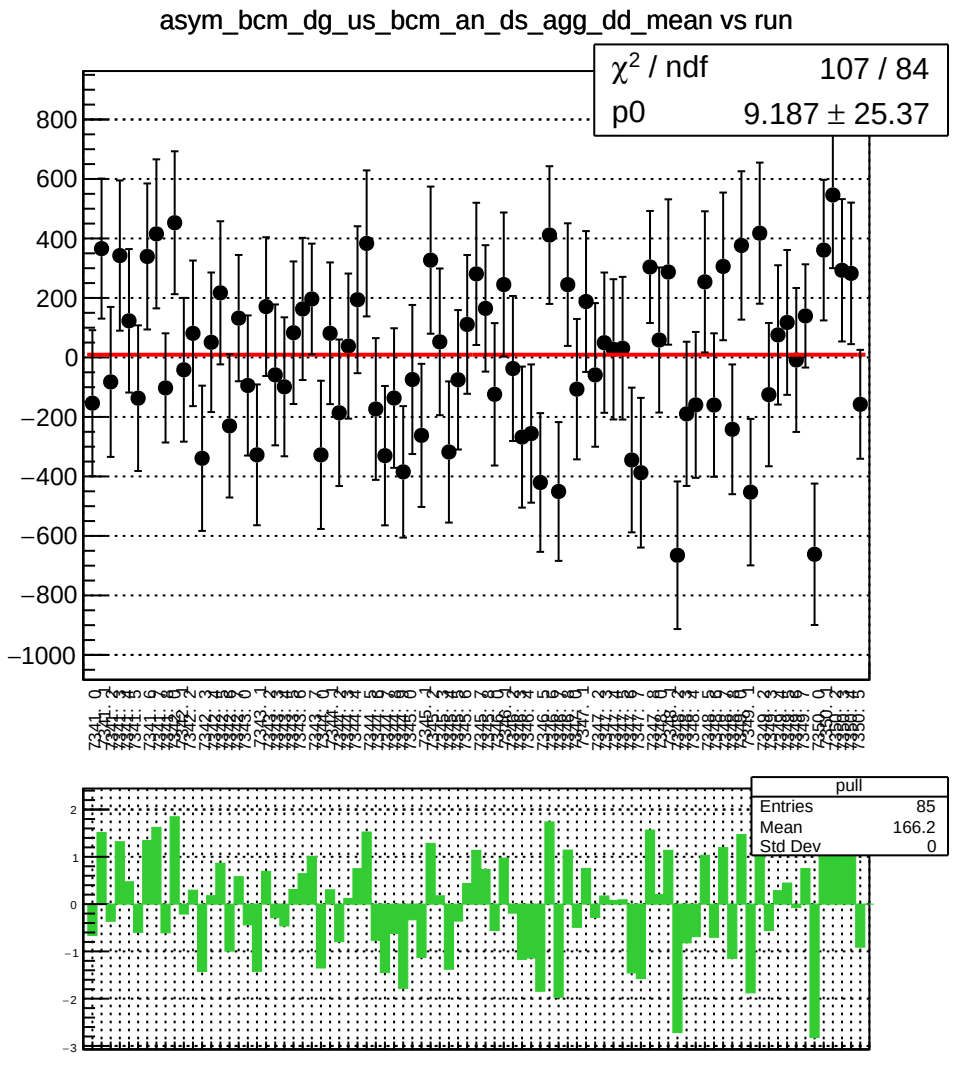

pull1D
Entries 85
Mean 0.01669
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

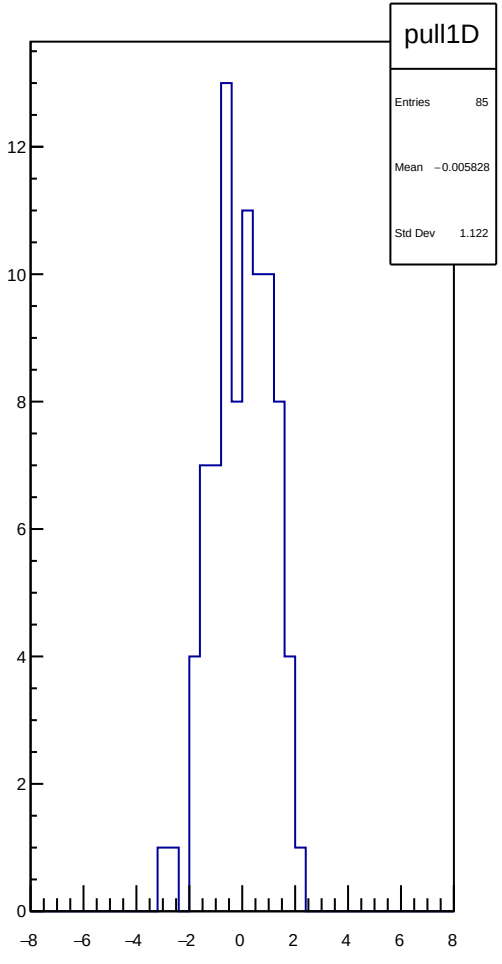

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3.825e+04 / 84
p0 11.34 ± 0.009027
16
15
14
13
12
11
10
9

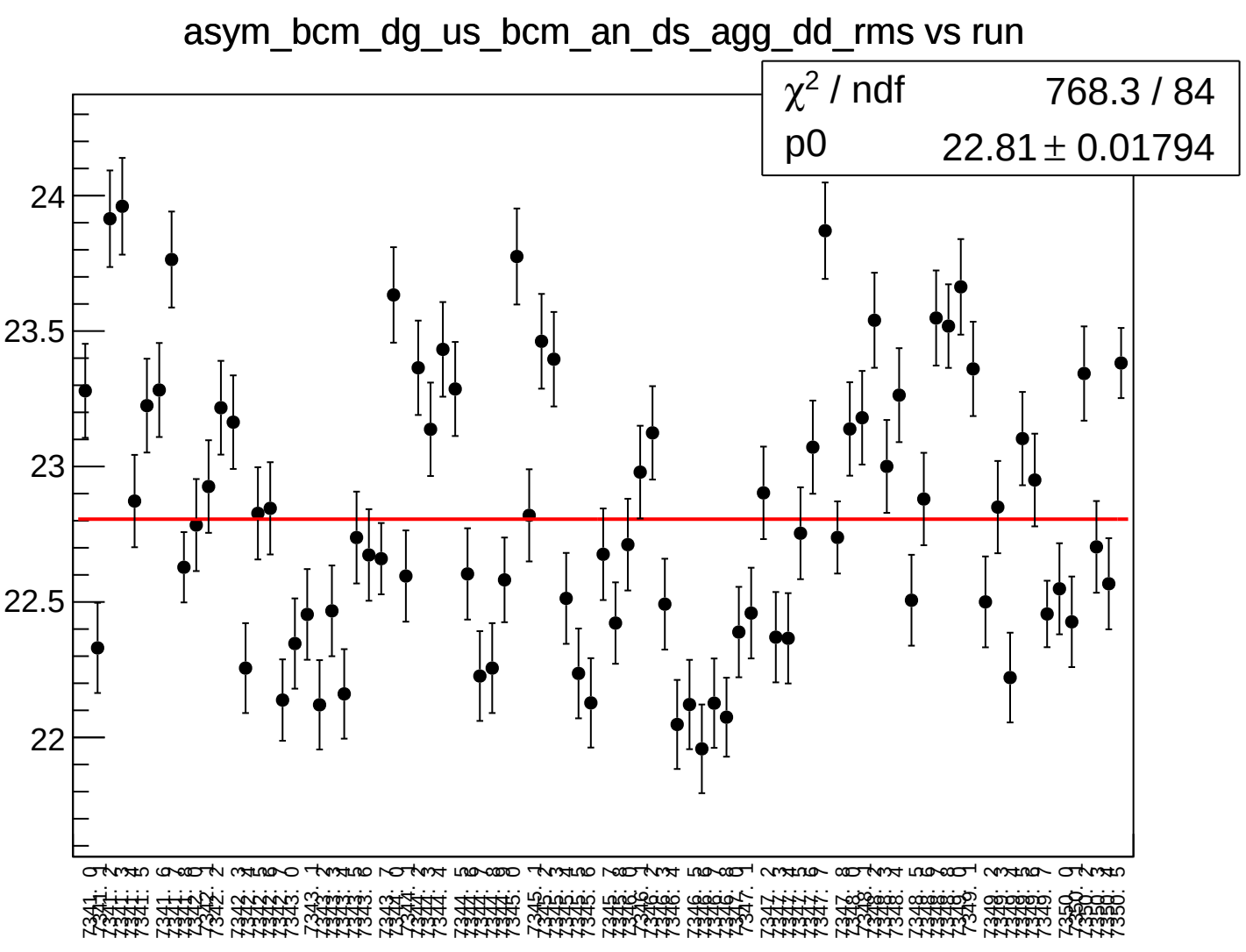

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.68 / 84
p0 19.11 ± 199.7
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −247.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

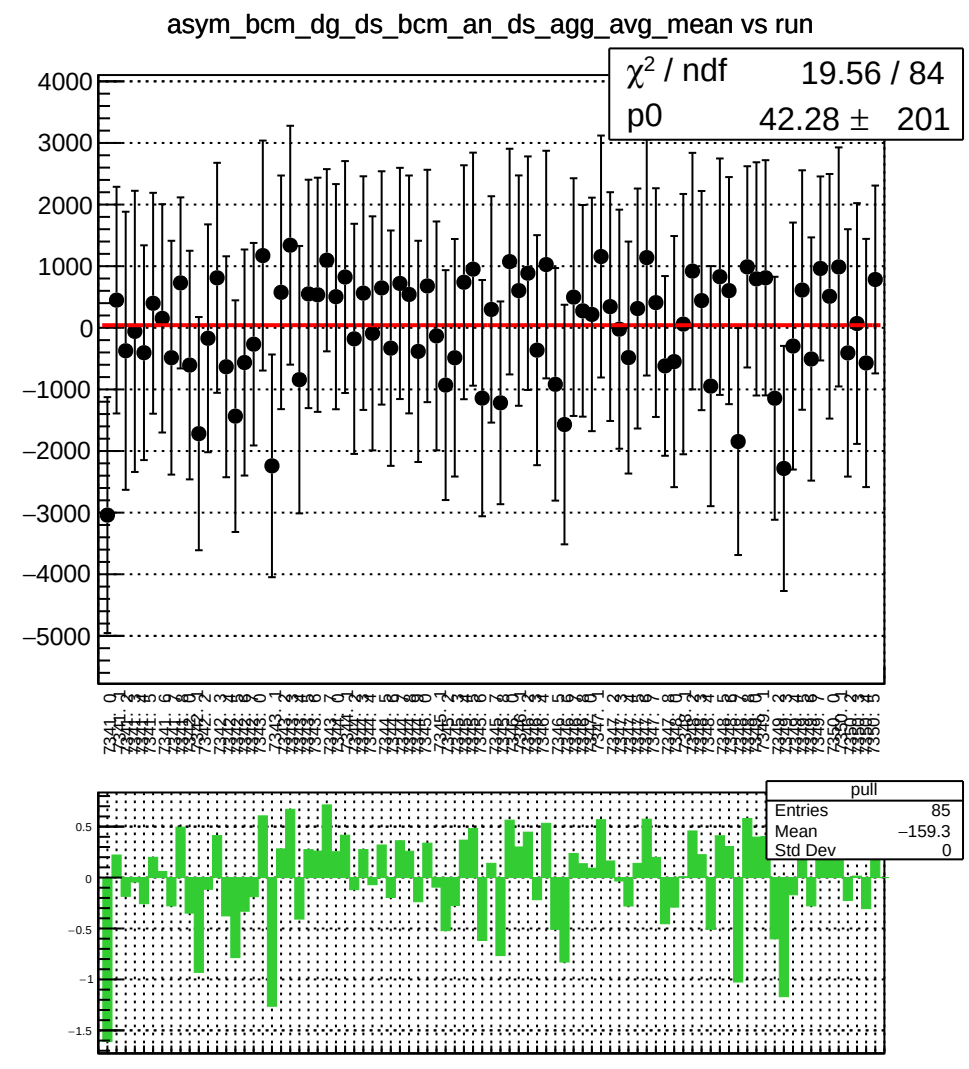

pull1D
Entries 85
Mean −0.006312
Std Dev 0.4811
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

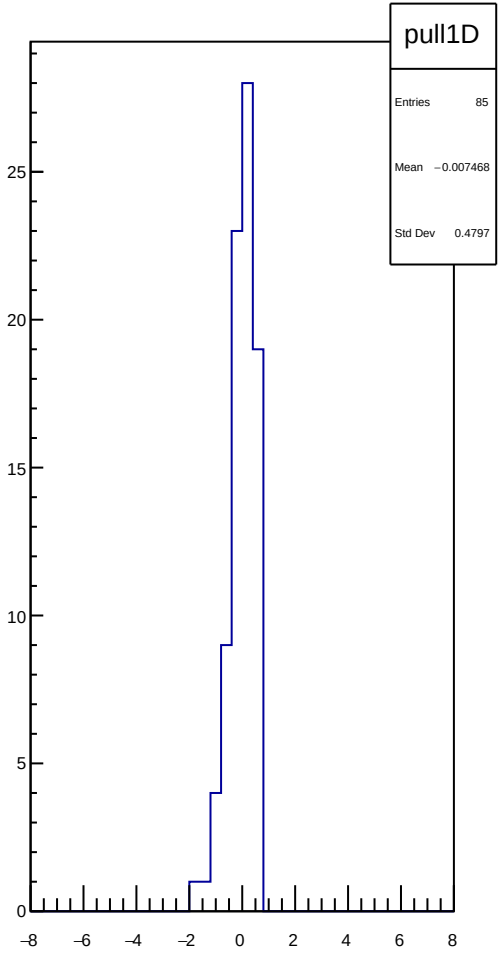

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3336 / 84
p0 179.3 ± 0.1412
210
200
190
180
170
160

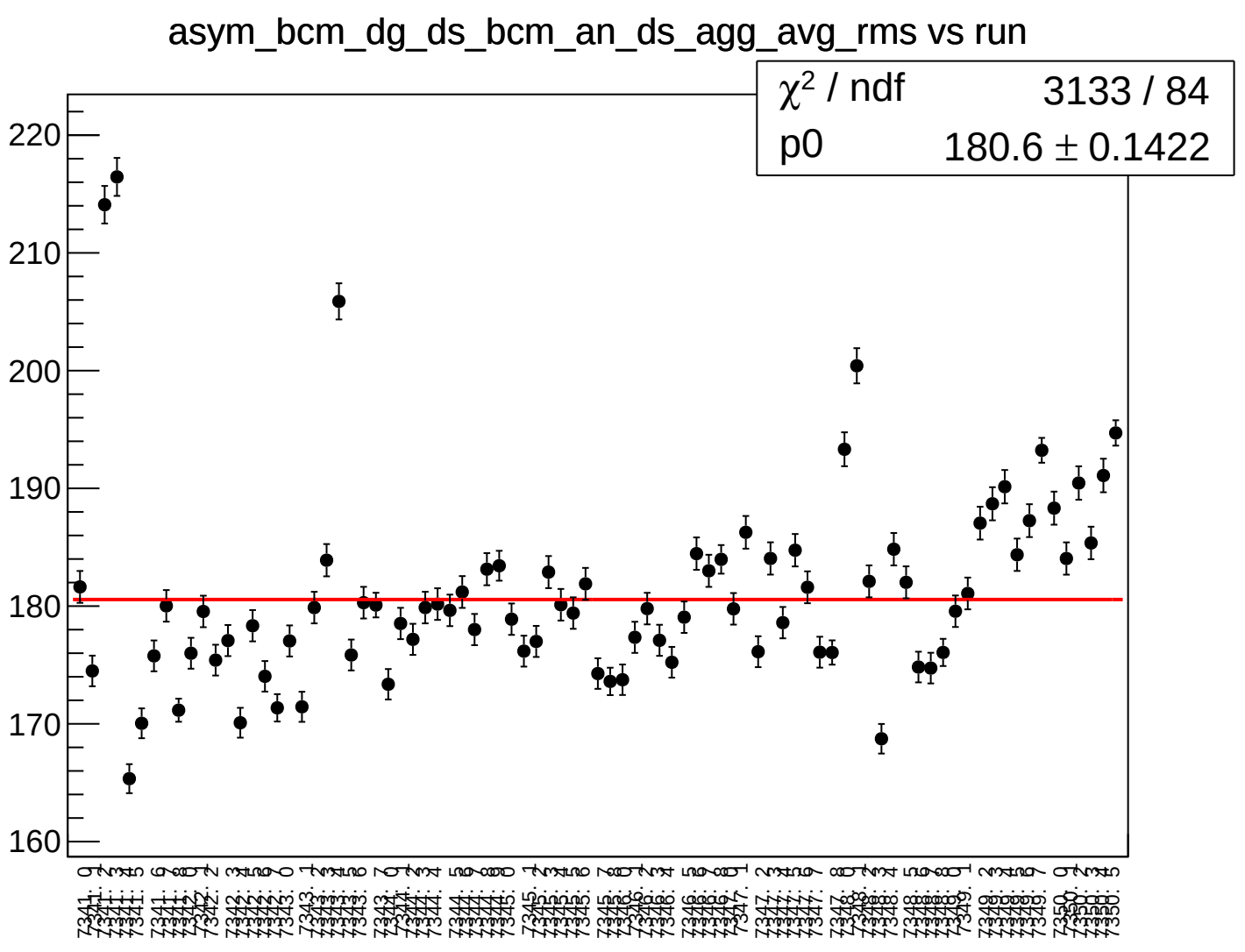

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 107 / 84
p0 9.187 ± 25.37
pull
Entries 85
Mean 166.2
Std Dev 0

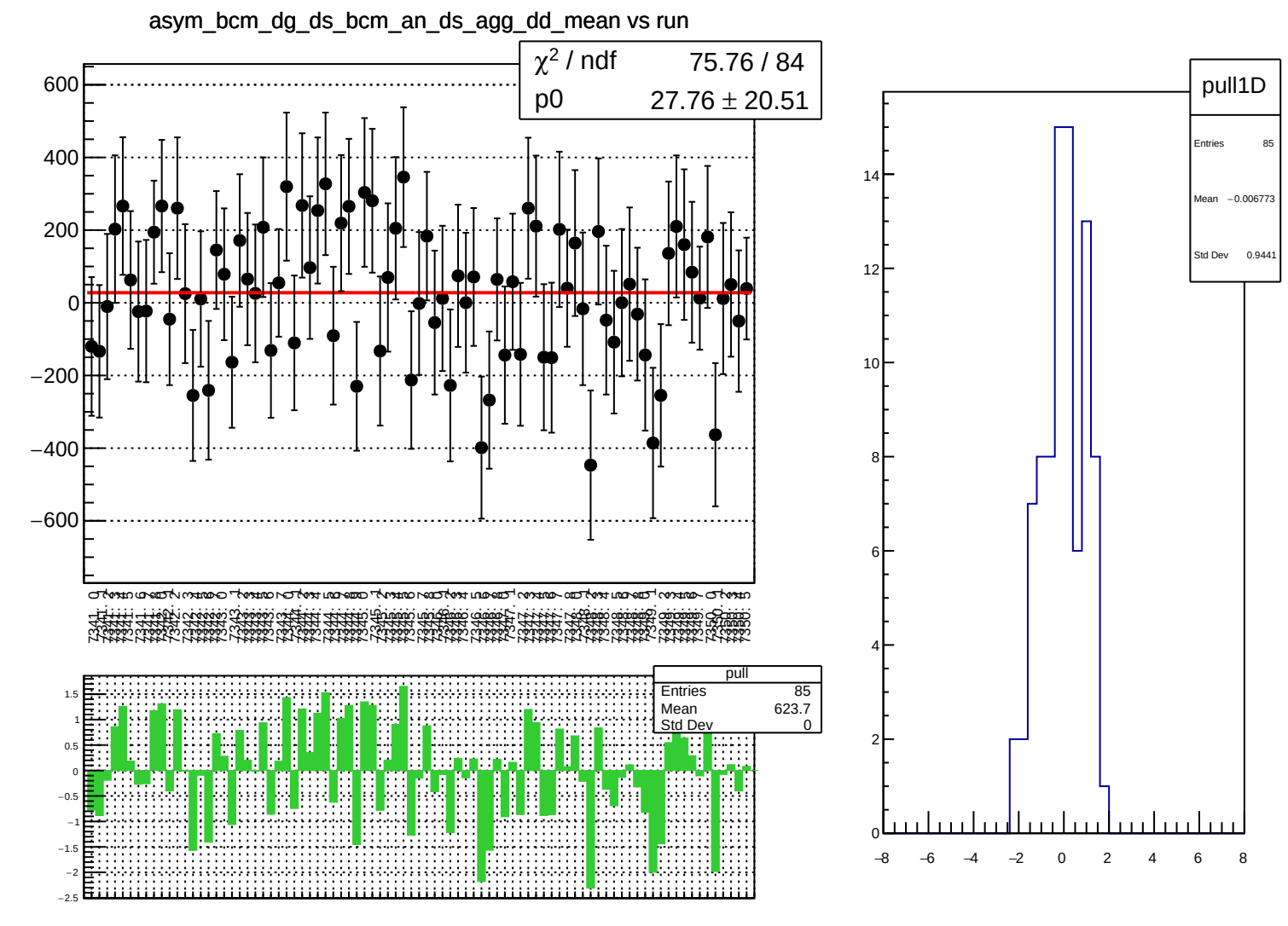

pull1D
Entries 85
Mean −0.005828
Std Dev 1.122

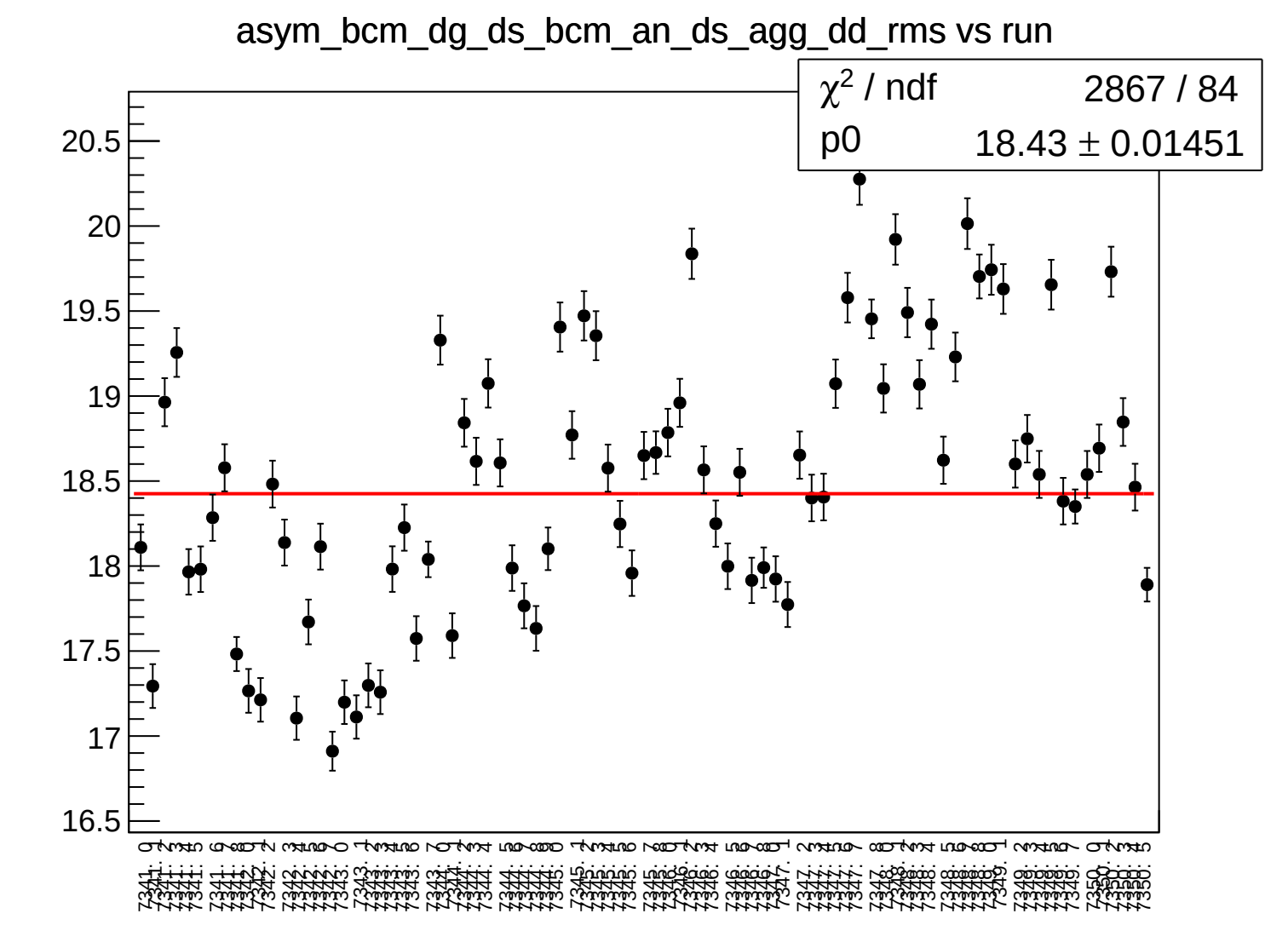

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 768.3 / 84
p0 22.81 ± 0.01794
24
23.5
23
22.5
22

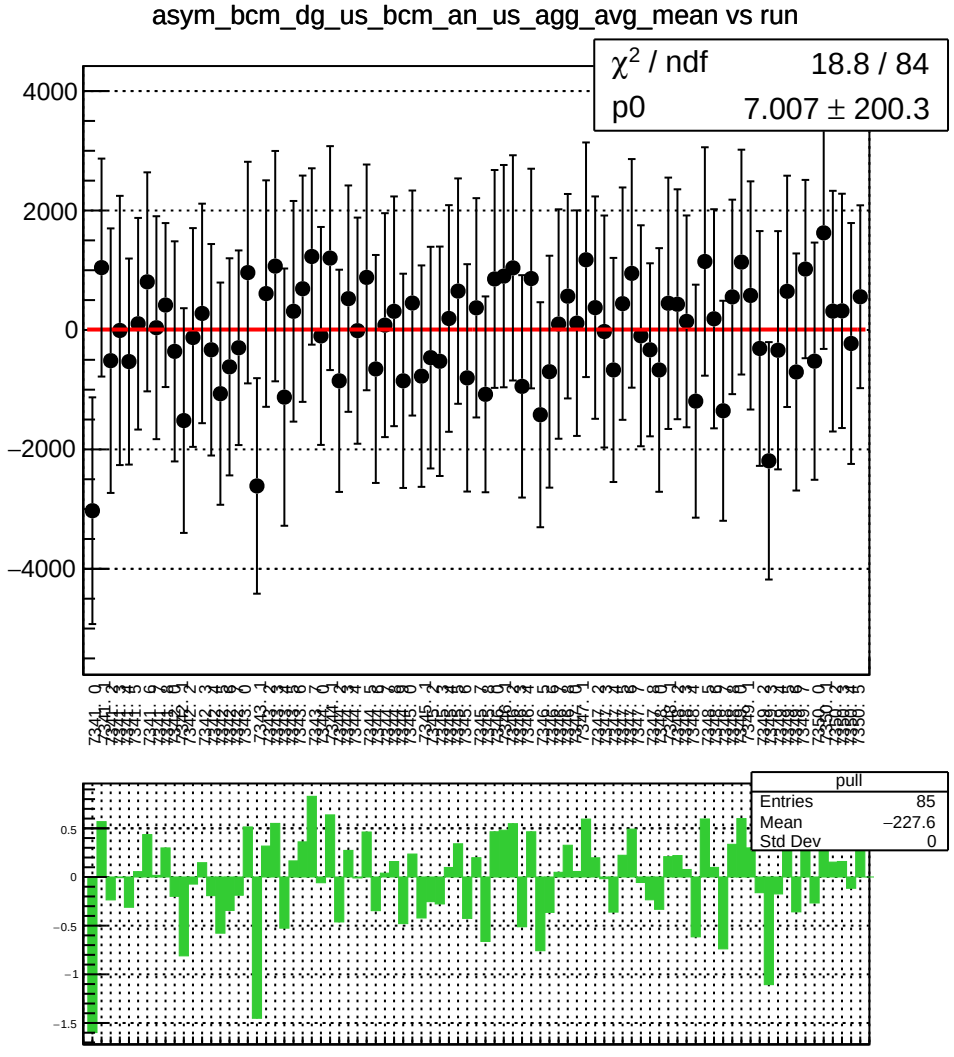

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.56 / 84
p0 42.28 ± 201
pull
Entries 85
Mean −159.3
Std Dev 0

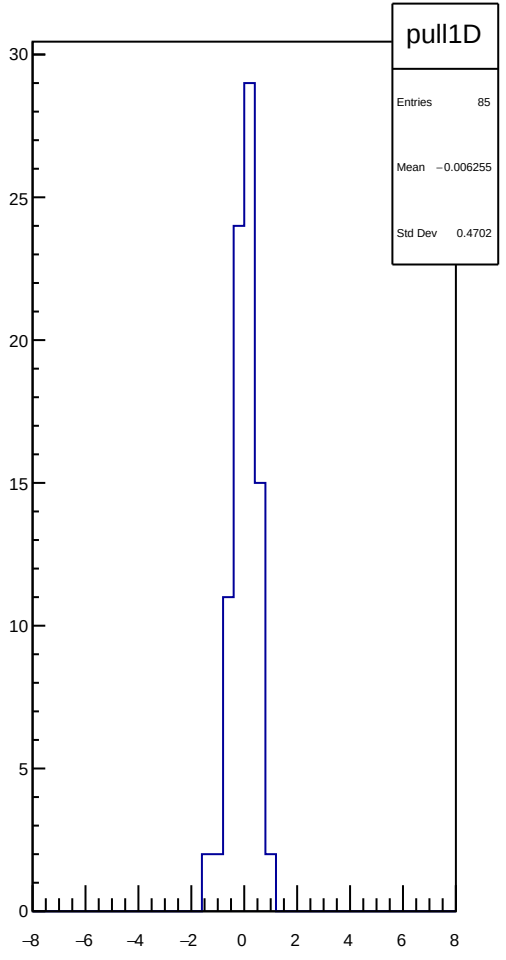

pull1D
Entries 85
Mean −0.007468
Std Dev 0.4797

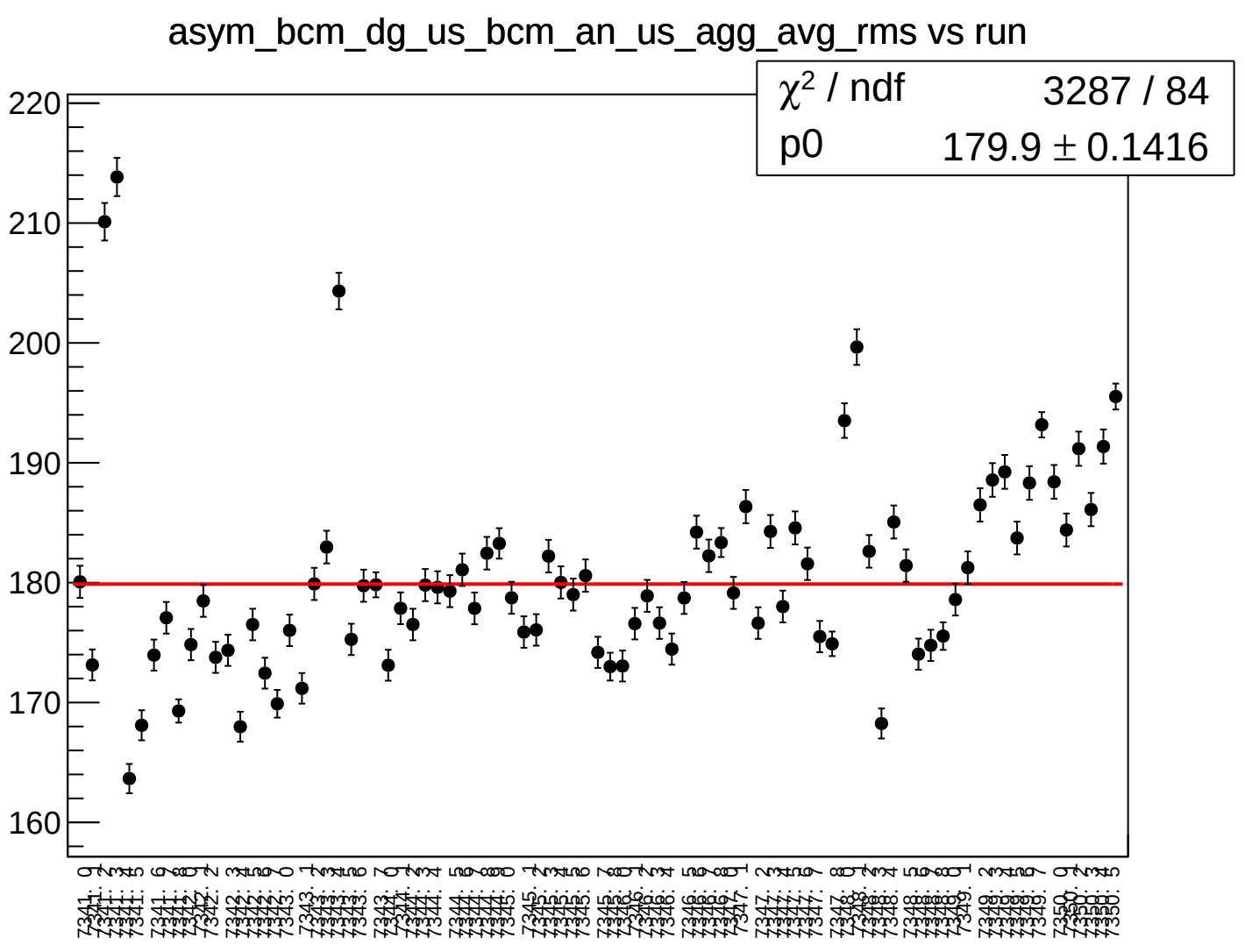

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3133 / 84
p0 180.6 ± 0.1422
220
210
200
190
180
170
160

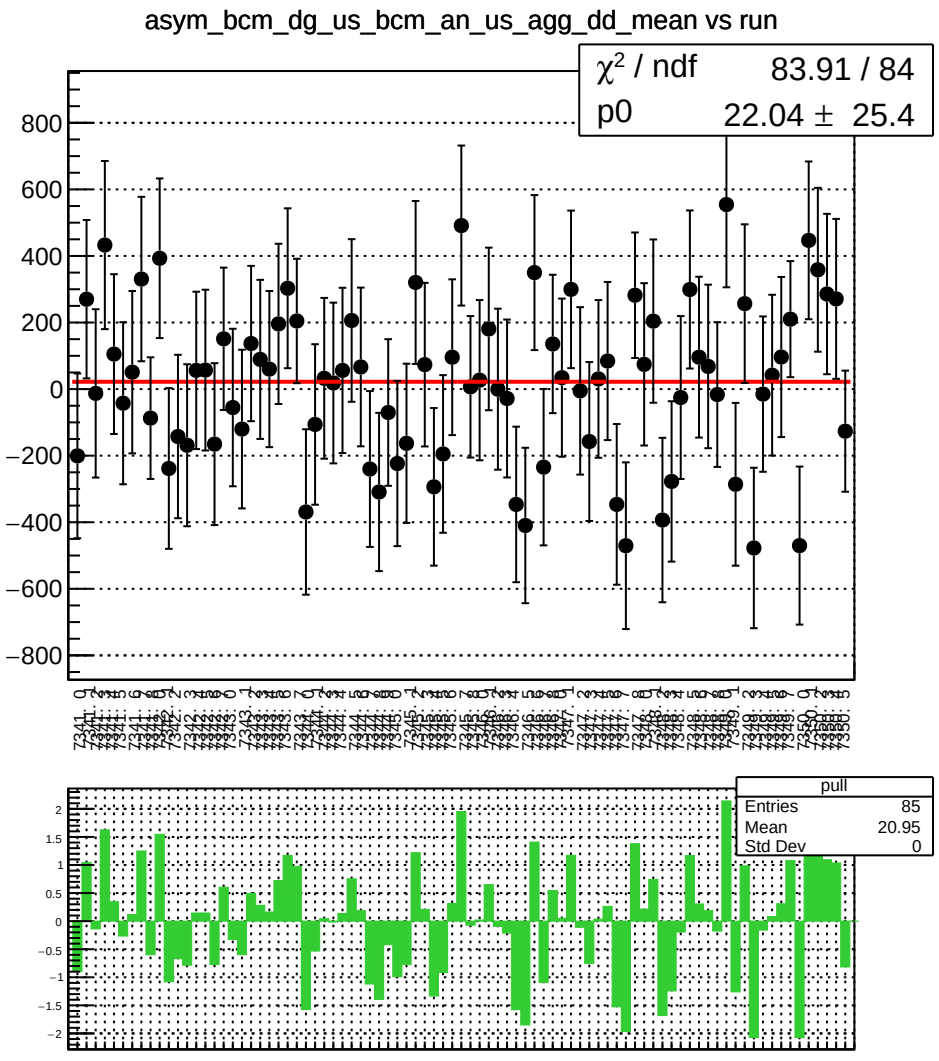

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 75.76 / 84
p0 27.76 ± 20.51
pull
Entries 85
Mean 623.7
Std Dev 0
pull1D
Entries 85
Mean −0.006773
Std Dev 0.9441

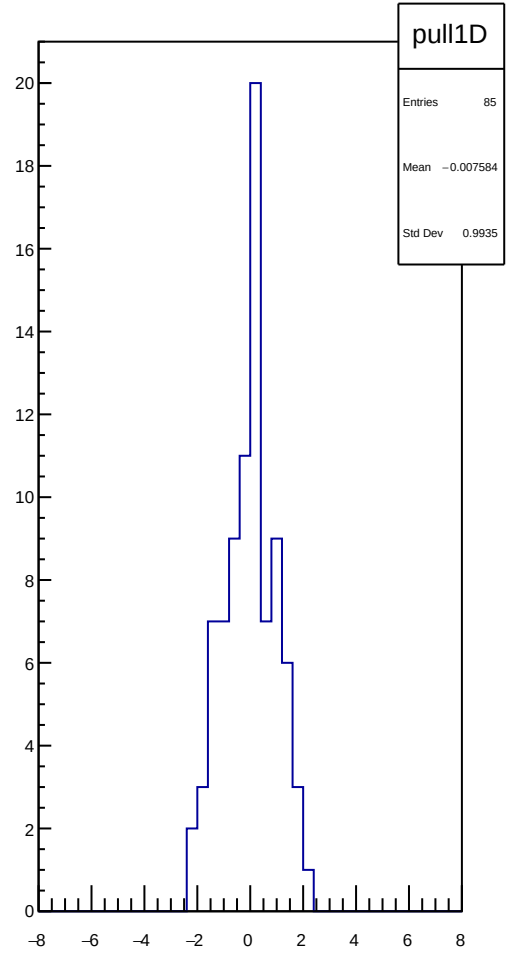

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2867 / 84
p0 18.43 ± 0.01451
20.5
20
19.5
19
18.5
18
17.5
17
16.5

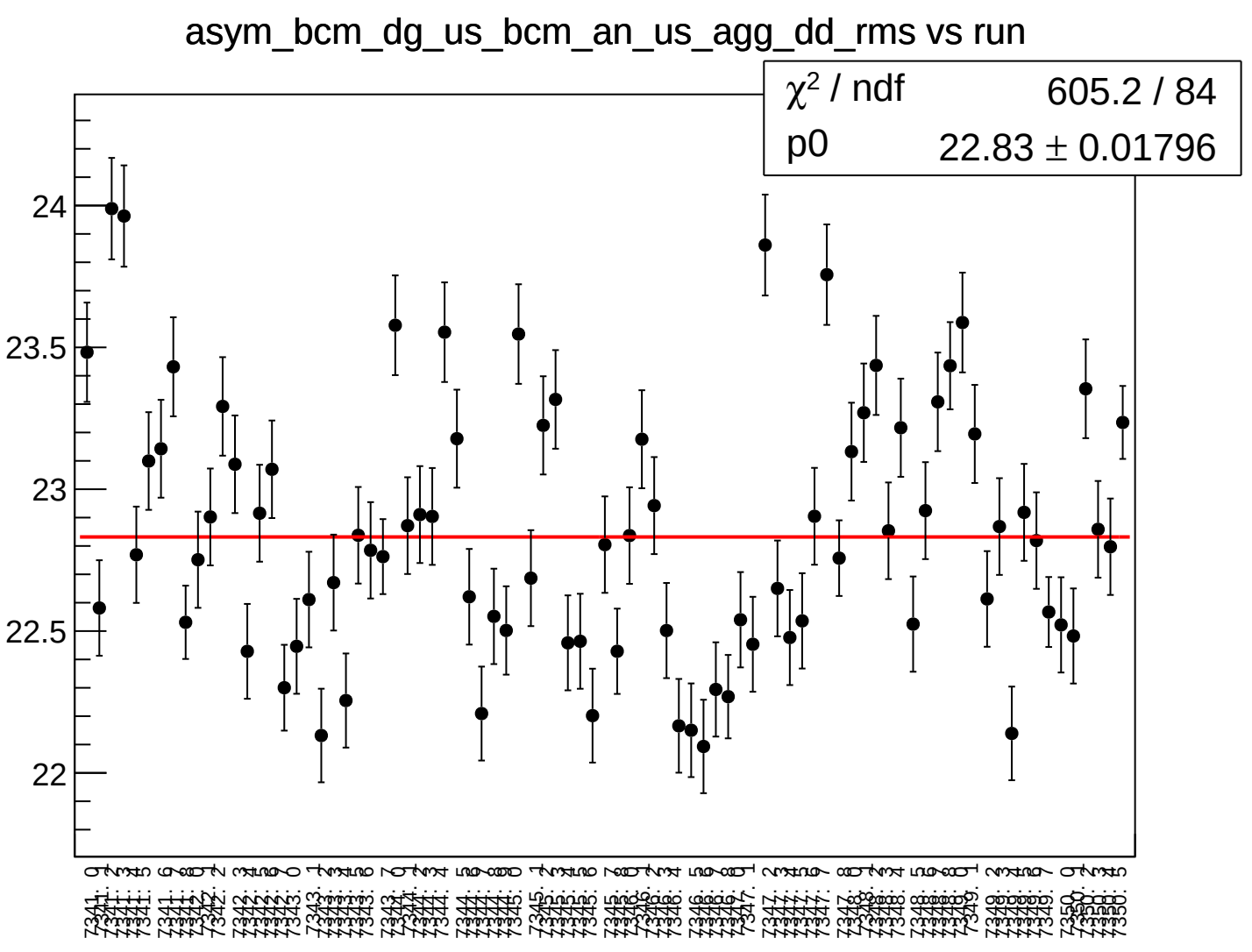

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 18.8 / 84
p0 7.007 ± 200.3
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −227.6
Std Dev 0
0.5
0
−0.5
−1
−1.5

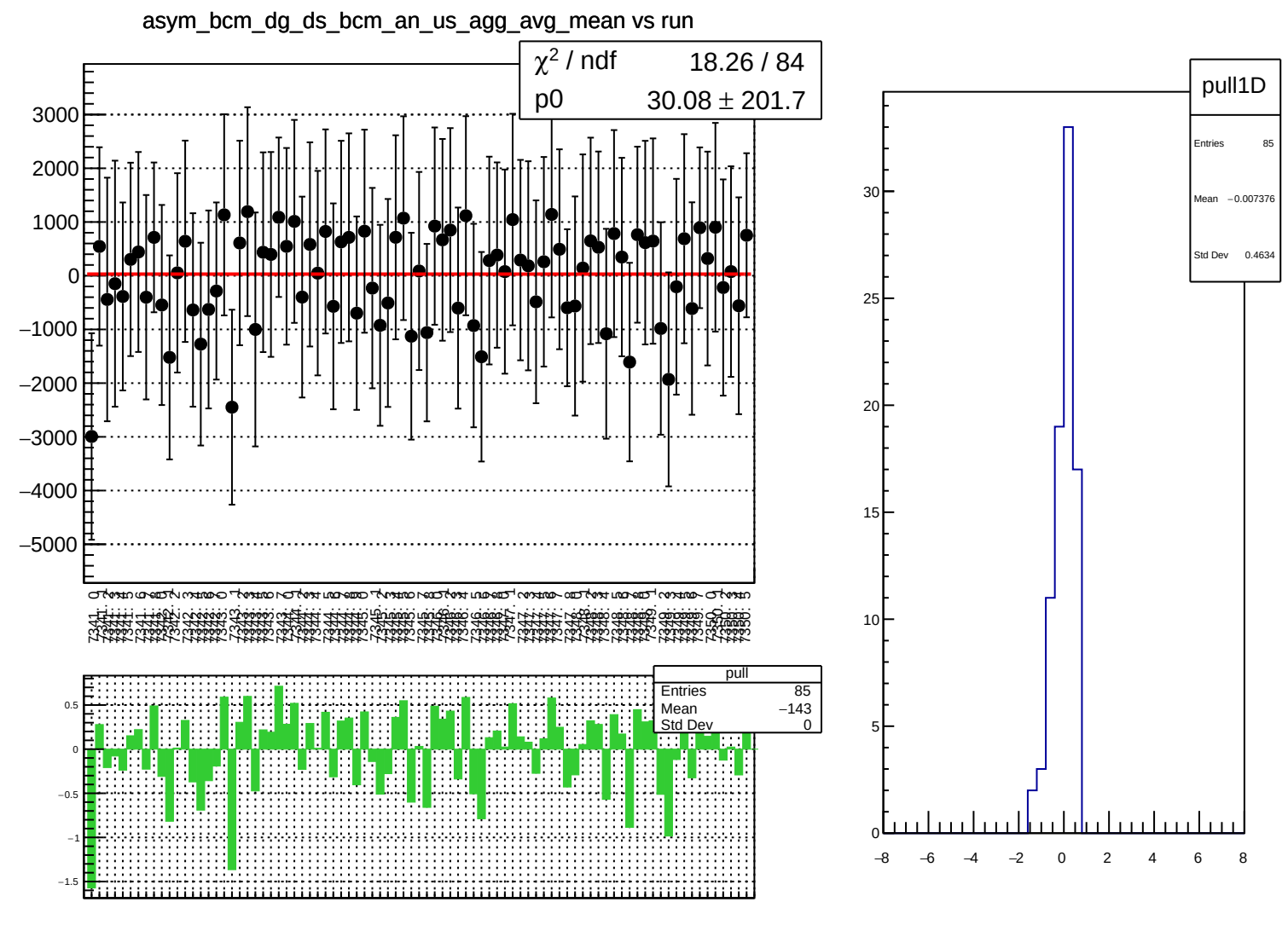

pull1D
Entries 85
Mean −0.006255
Std Dev 0.4702
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

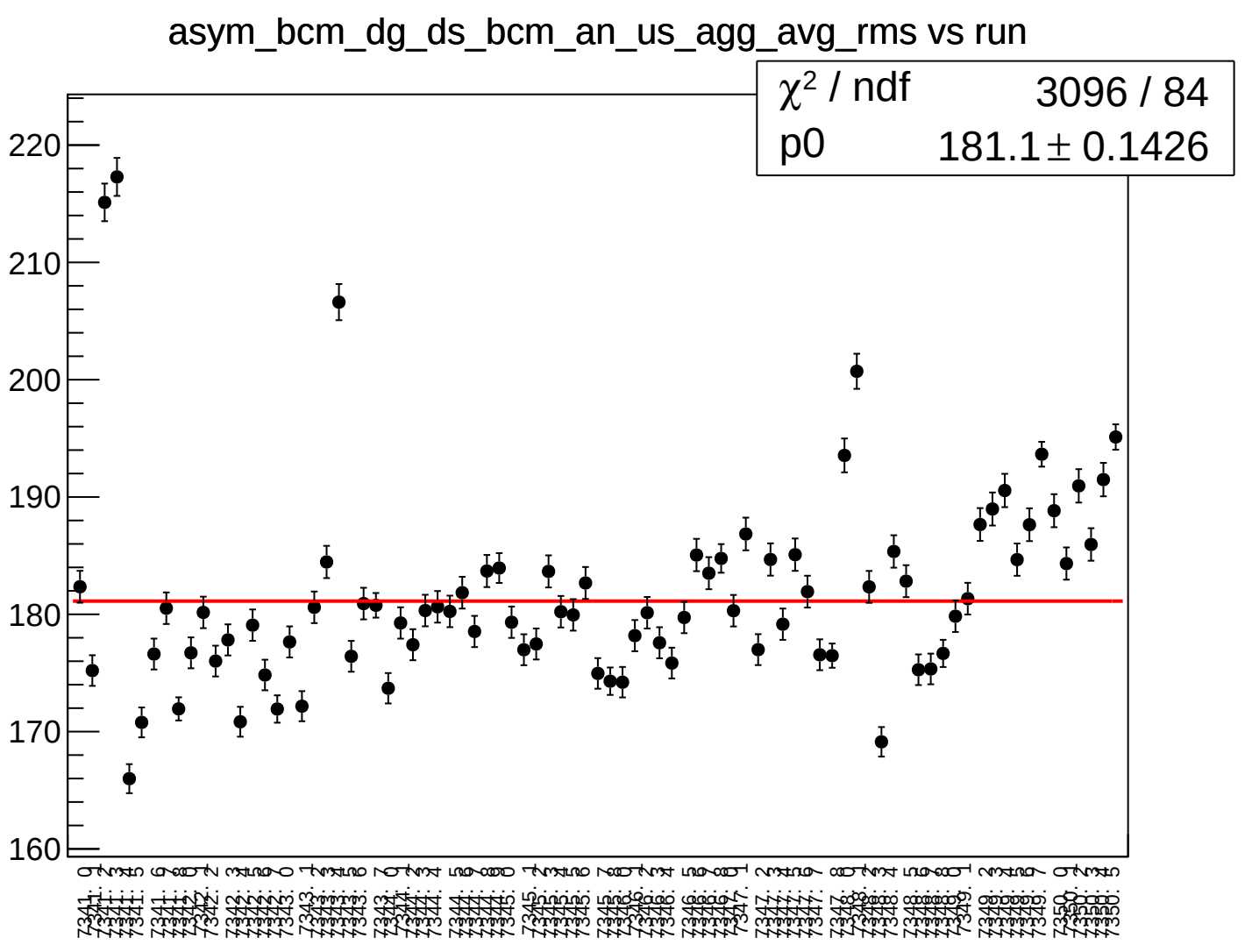

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3287 / 84
p0 179.9 ± 0.1416
220
210
200
190
180
170
160

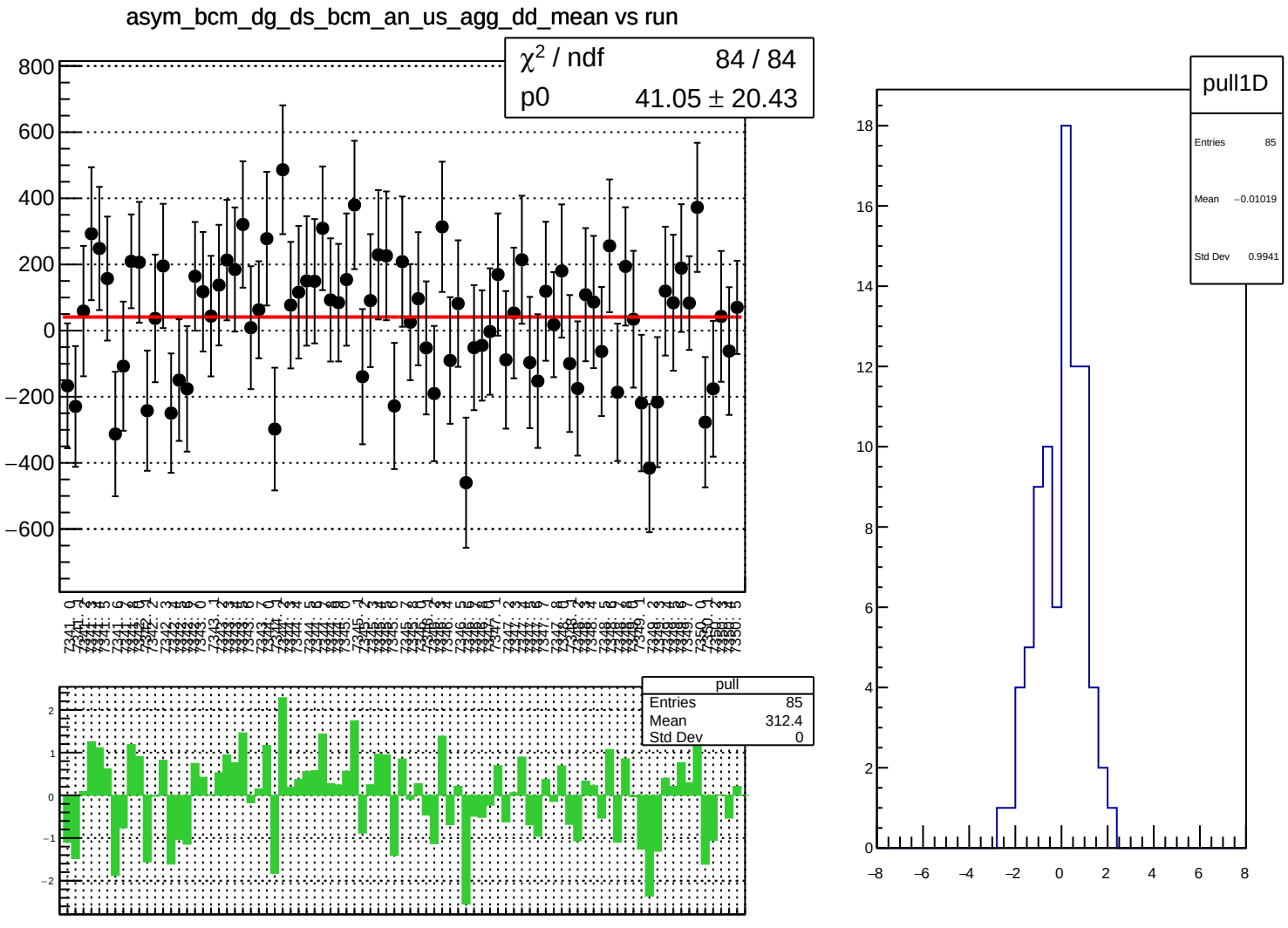

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 83.91 / 84
p0 22.04 ± 25.4
pull
Entries 85
Mean 20.95
Std Dev 0

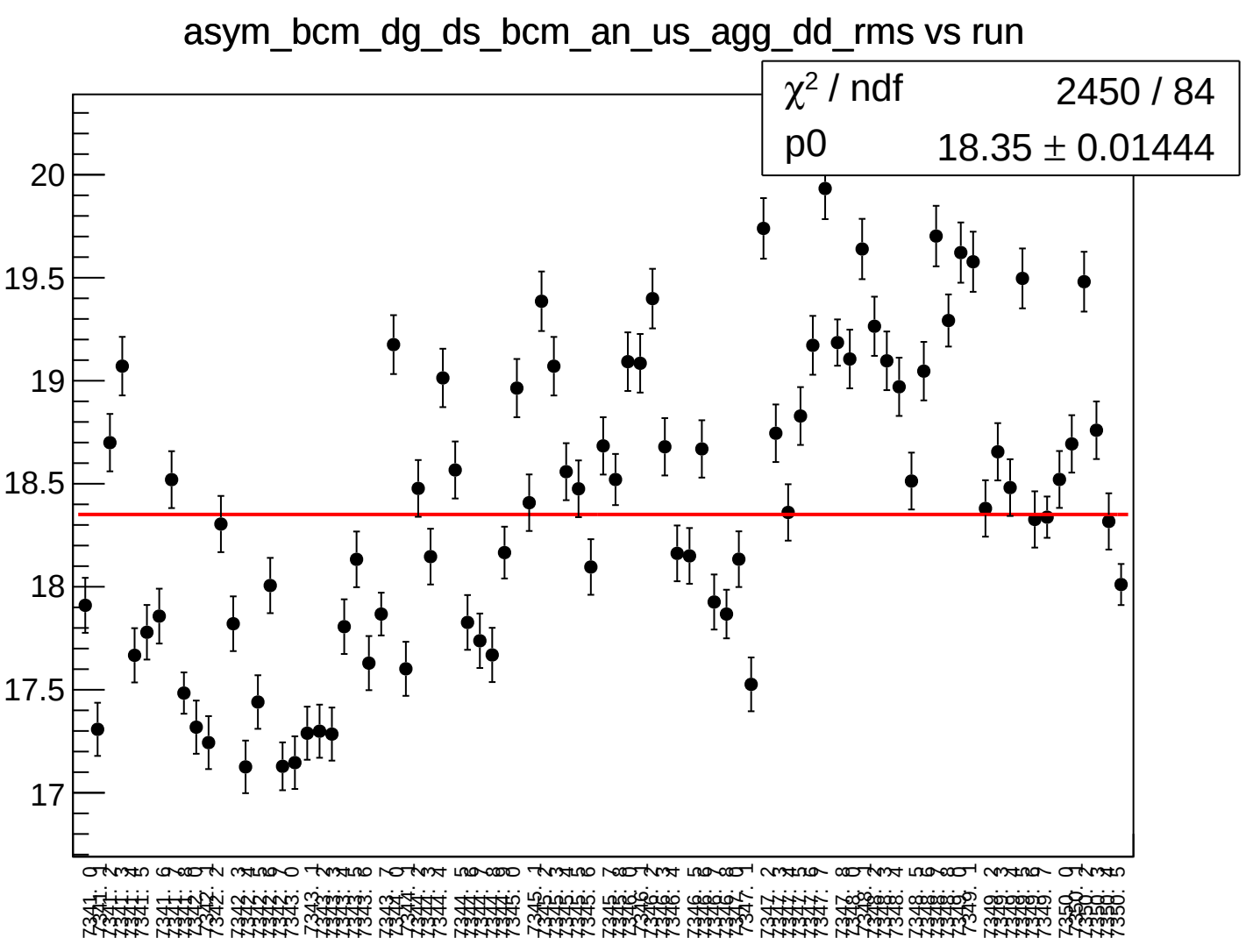

pull1D
Entries 85
Mean −0.007584
Std Dev 0.9935

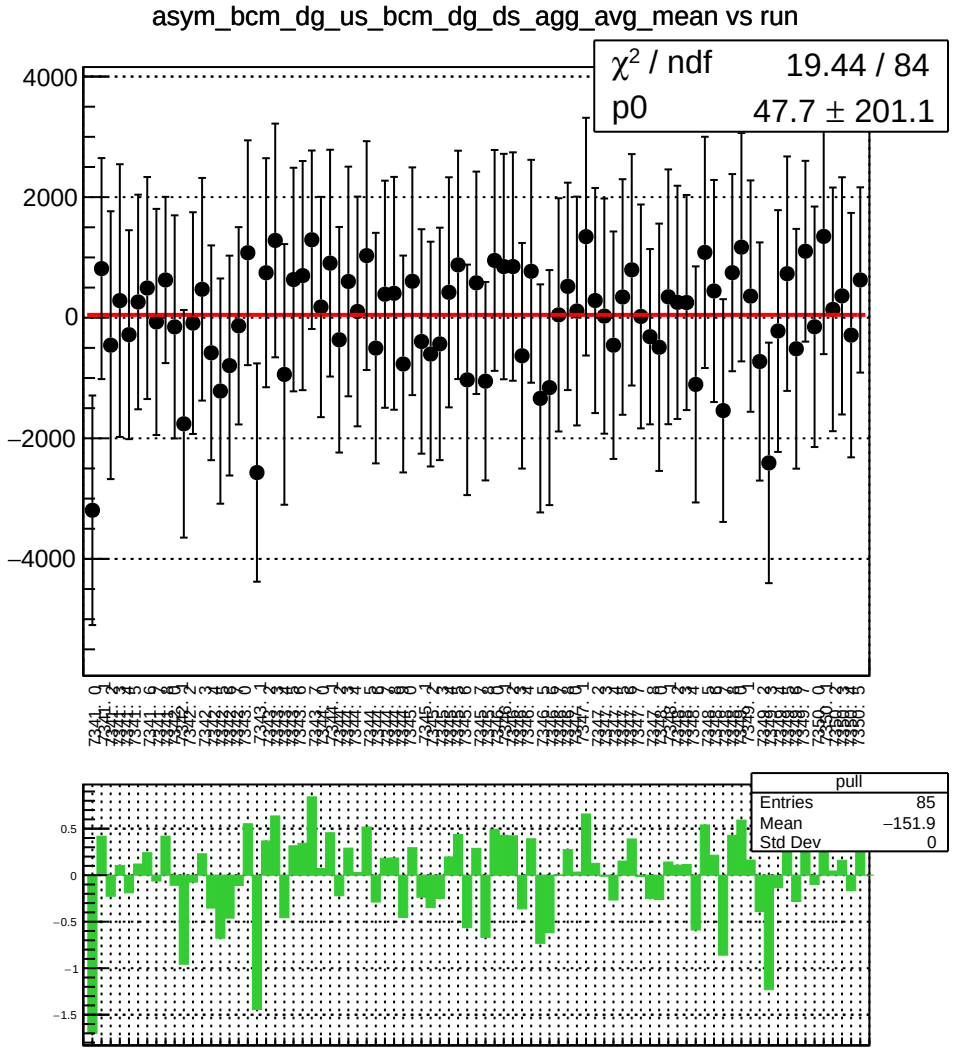

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 605.2 / 84
p0 22.83 ± 0.01796
24
23.5
23
22.5
22

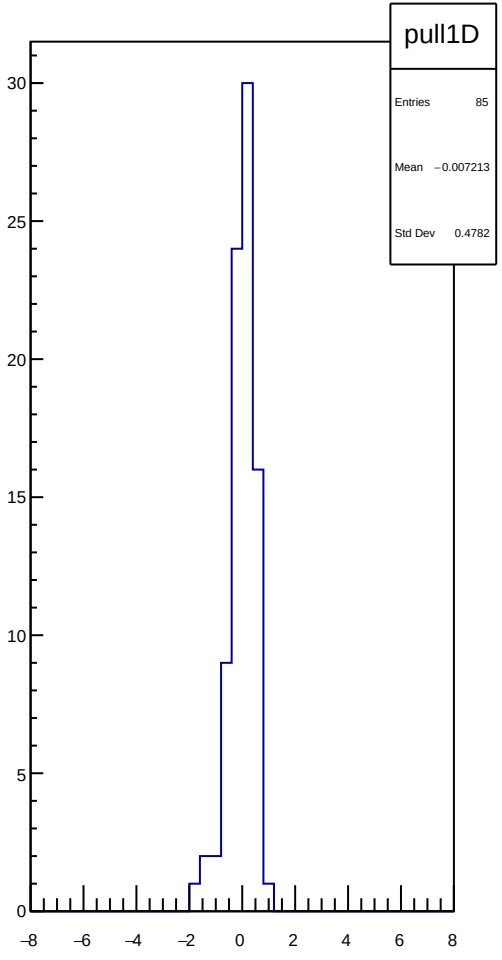

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 18.26 / 84
p0 30.08 ± 201.7
pull
Entries 85
Mean −143
Std Dev 0
pull1D
Entries 85
Mean −0.007376
Std Dev 0.4634

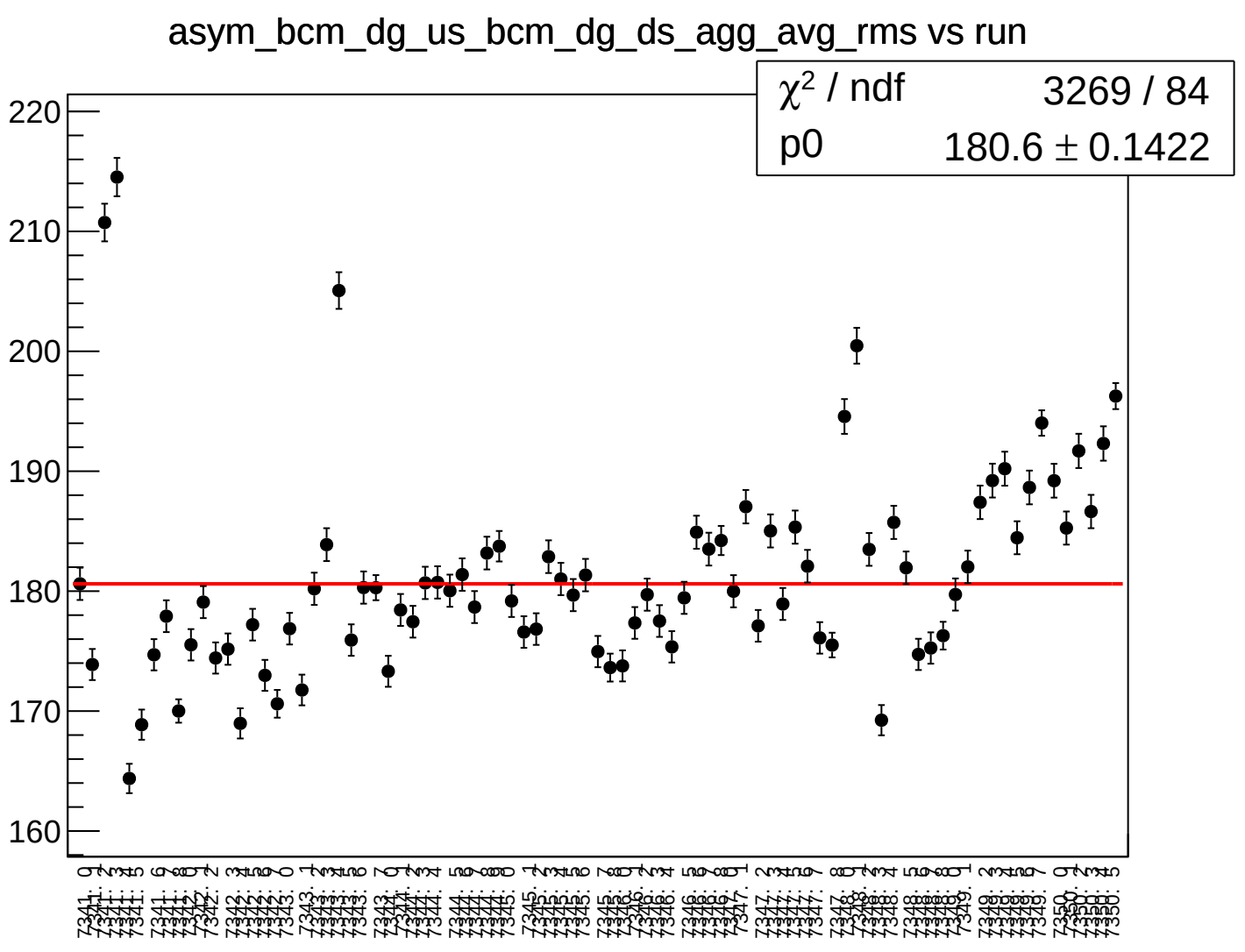

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3096 / 84
p0 181.1 ± 0.1426
220
210
200
190
180
170
160

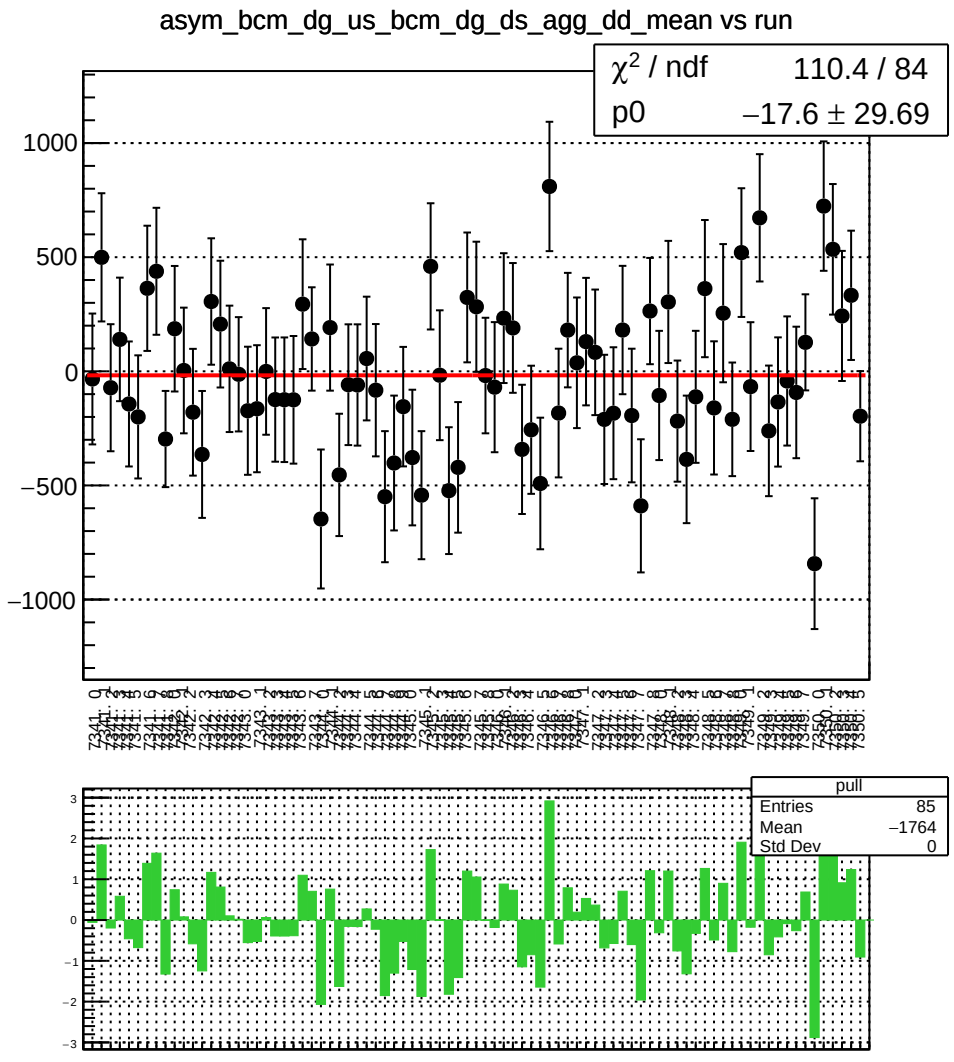

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 84 / 84
p0 41.05 ± 20.43
pull
Entries 85
Mean 312.4
Std Dev 0
pull1D
Entries 85
Mean −0.01019
Std Dev 0.9941

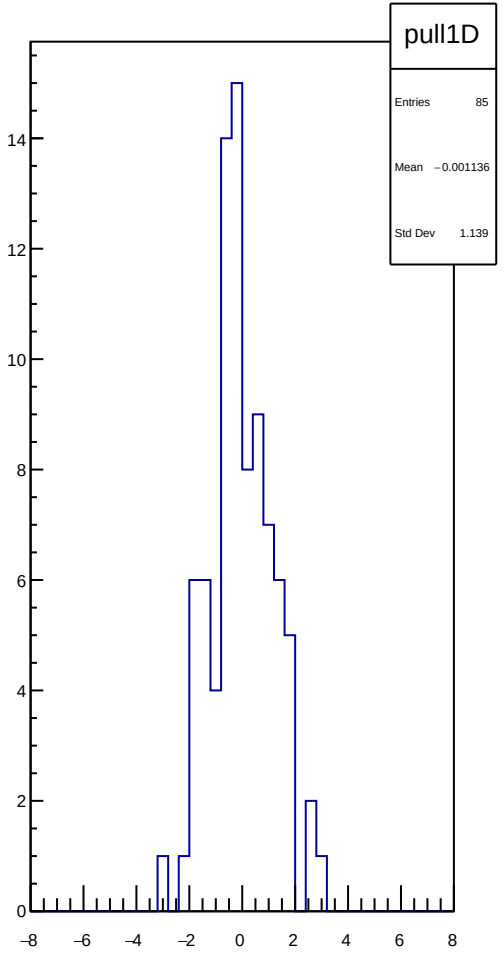

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2450 / 84
p0 18.35 ± 0.01444
20
19.5
19
18.5
18
17.5
17

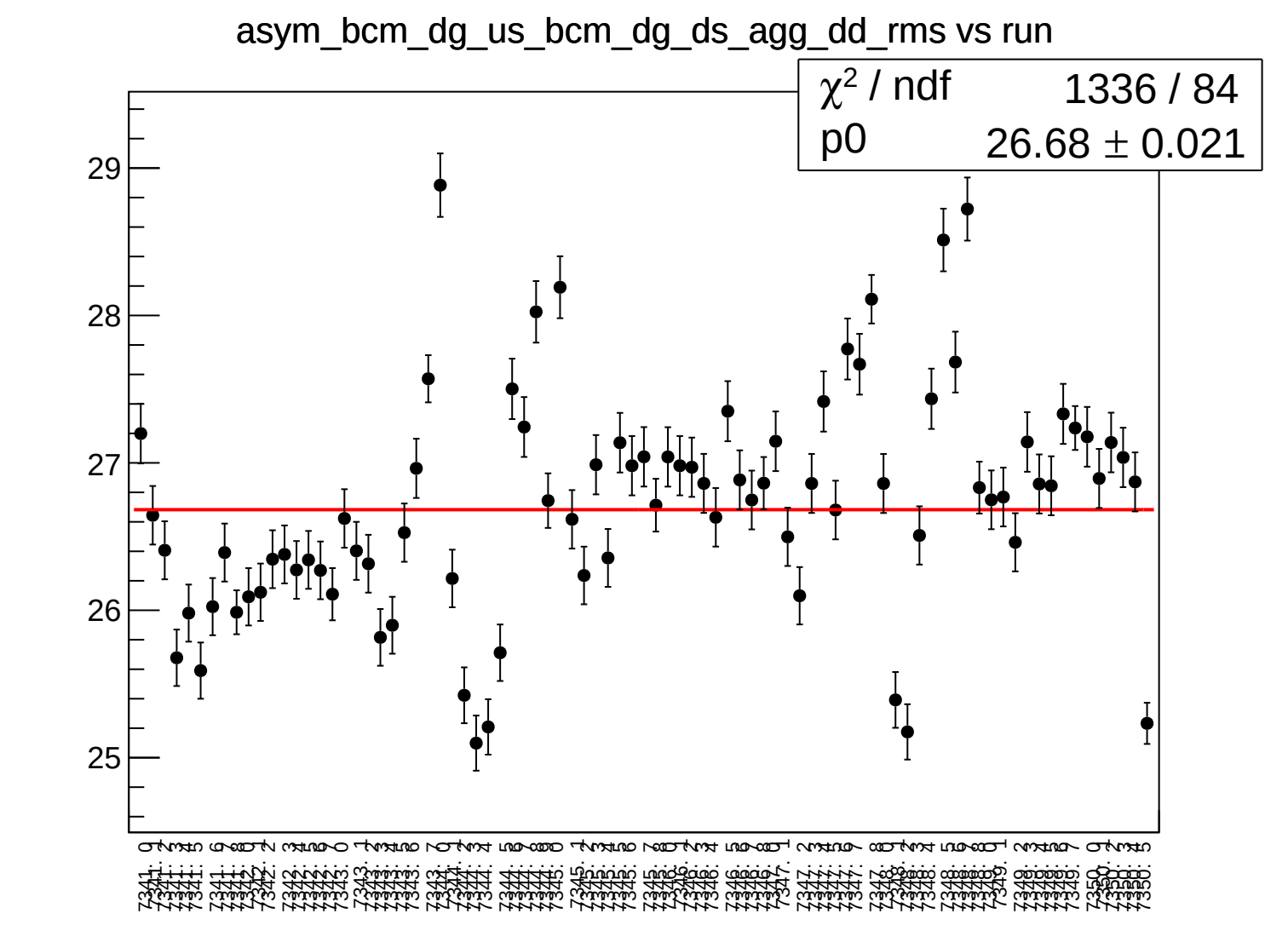

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 19.44 / 84
p0 47.7 ± 201.1
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −151.9
Std Dev 0
0.5
0
−0.5
−1
−1.5

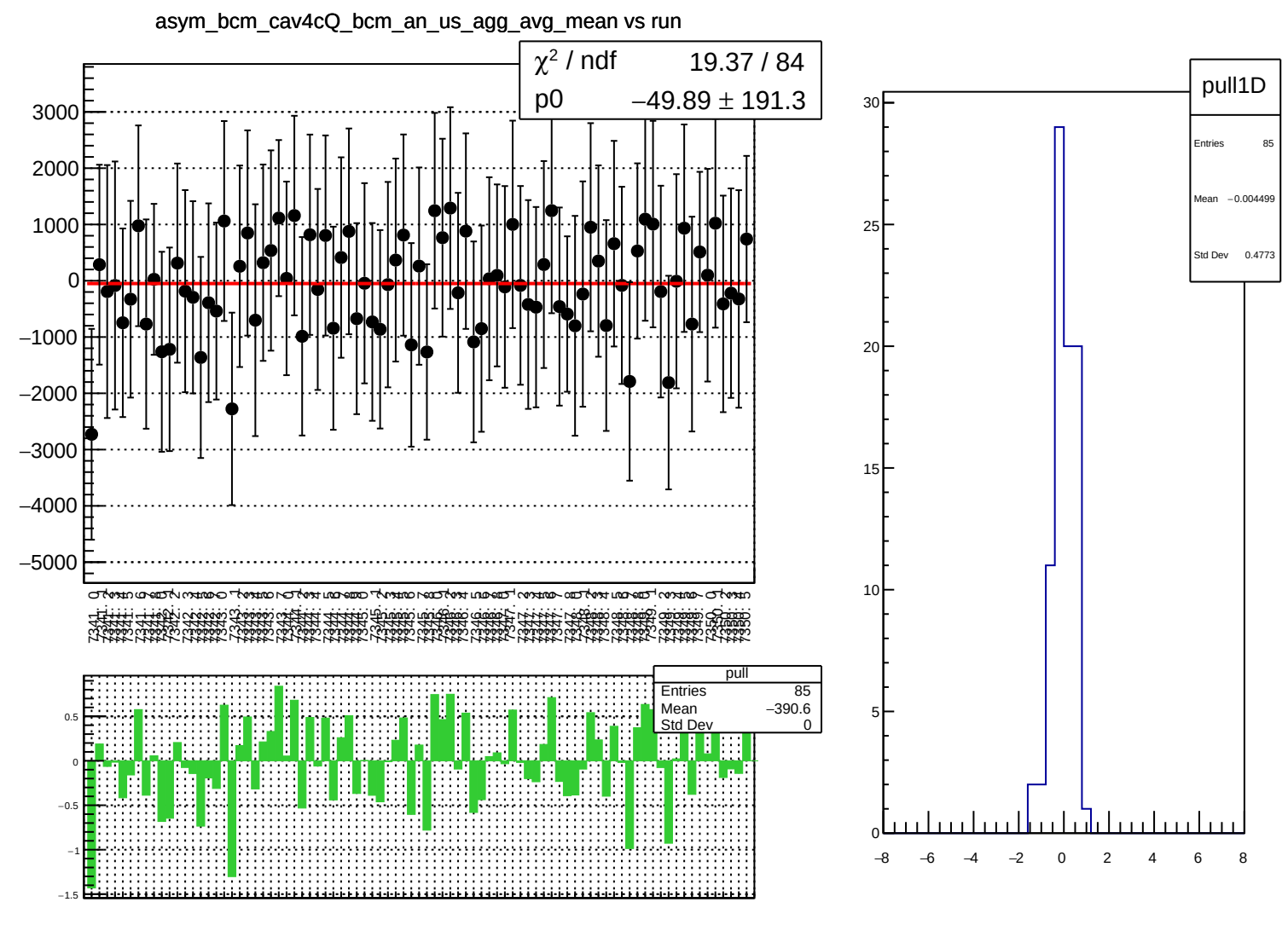

pull1D
Entries 85
Mean −0.007213
Std Dev 0.4782
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

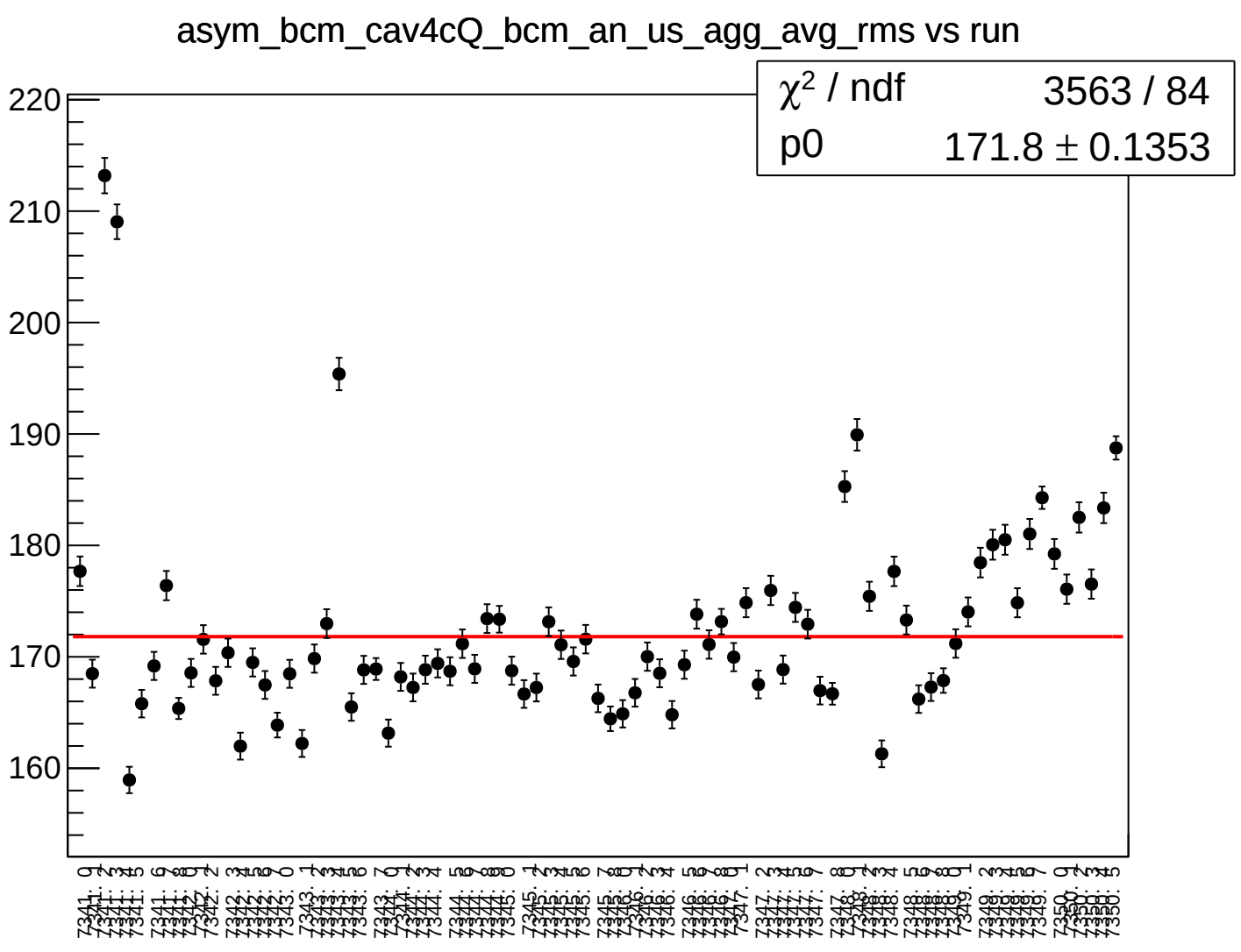

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3269 / 84
p0 180.6 ± 0.1422
220
210
200
190
180
170
160

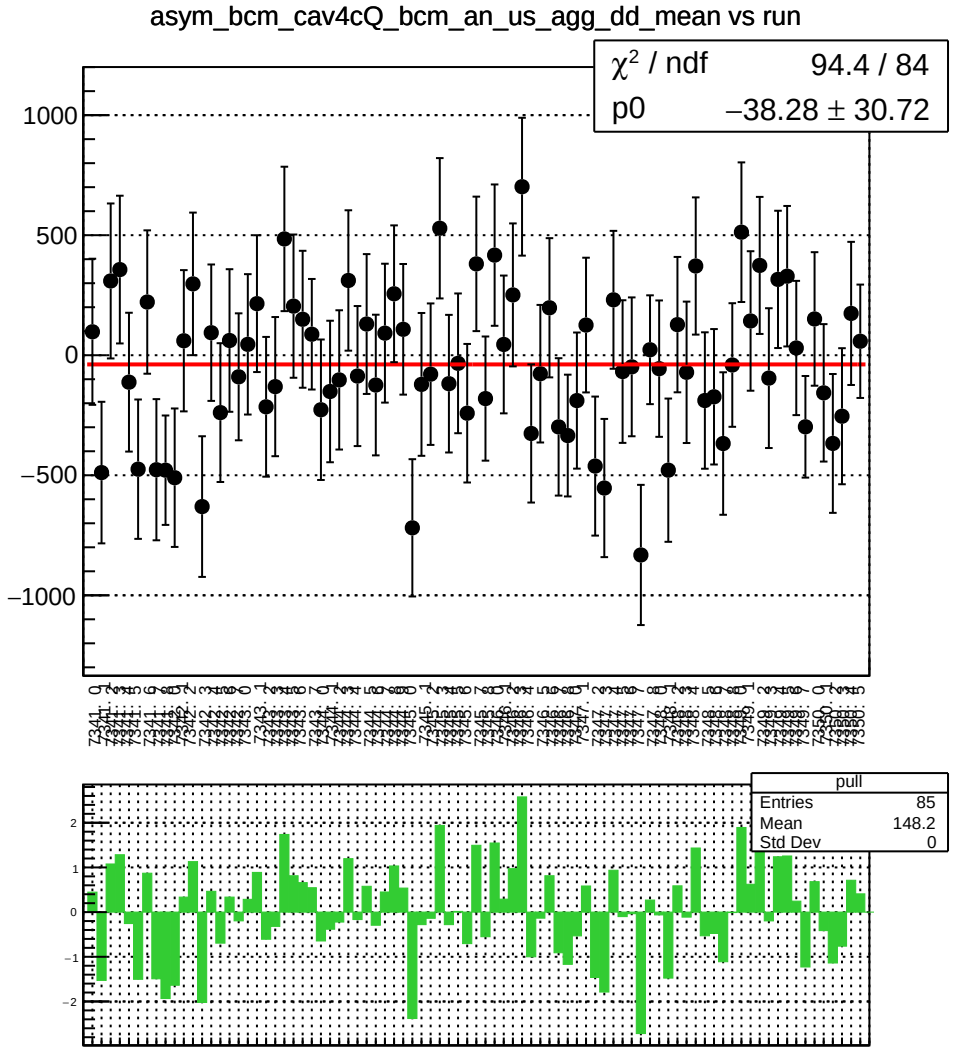

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 110.4 / 84
p0 −17.6 ± 29.69
1000
500
0
−500
−1000
pull
Entries 85
Mean −1764
Std Dev 0

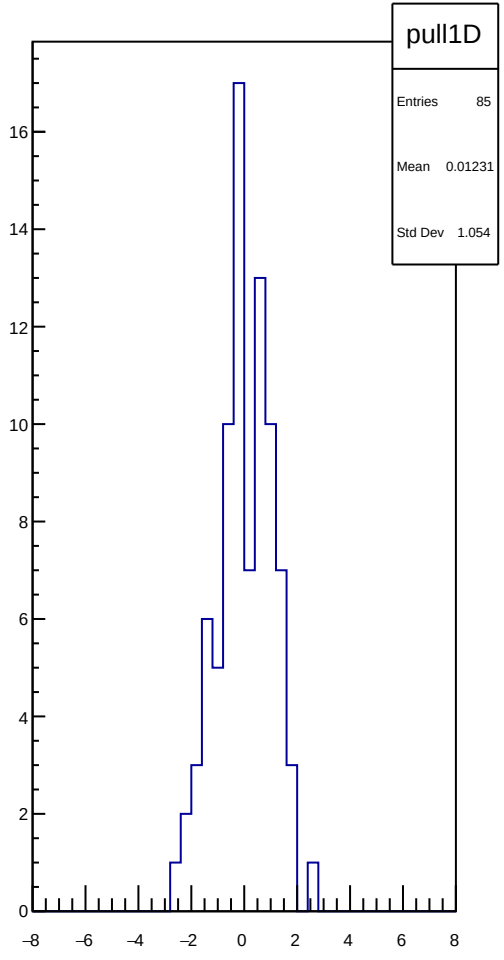

pull1D
Entries 85
Mean −0.001136
Std Dev 1.139

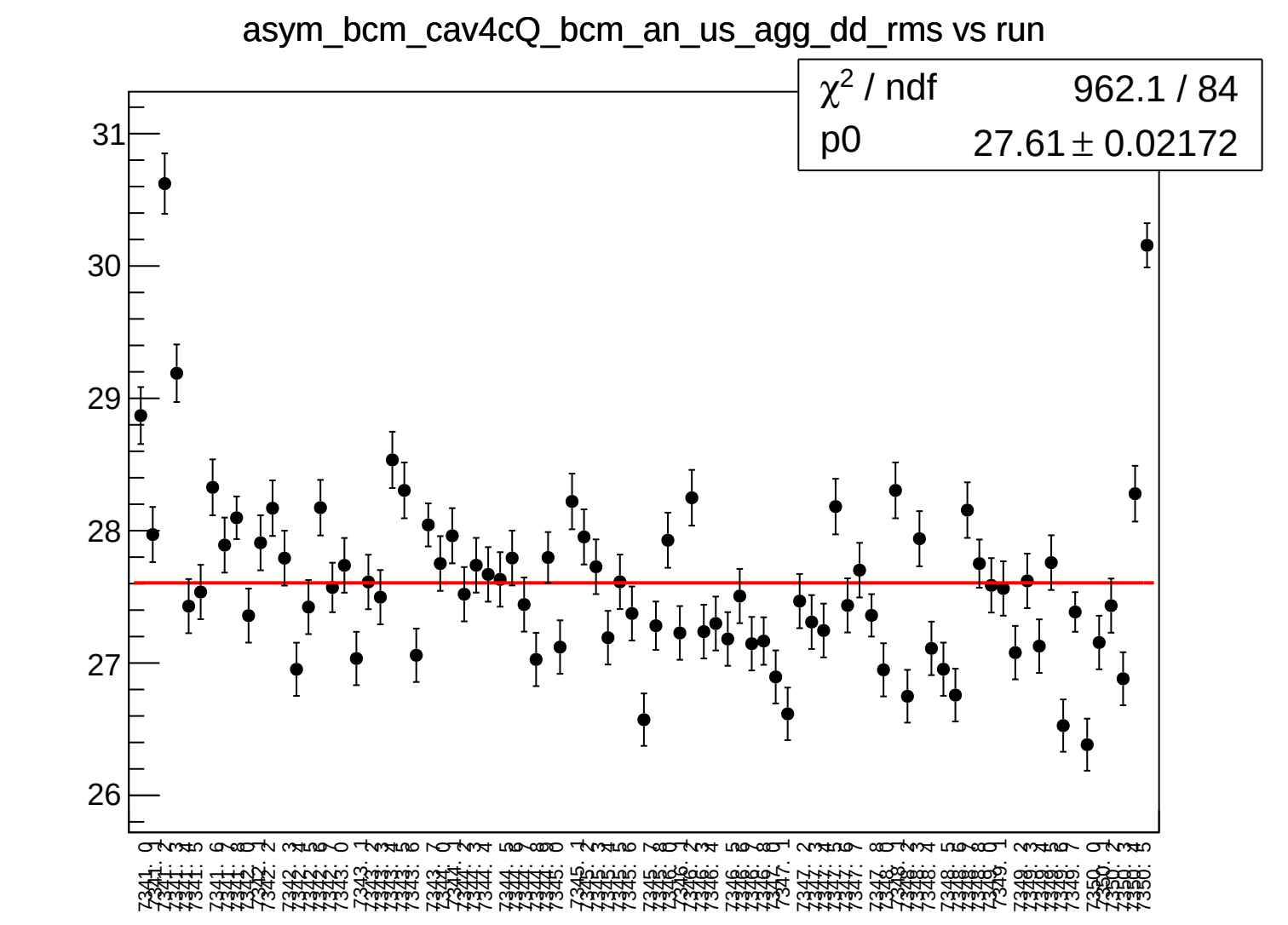

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1336 / 84
p0 26.68 ± 0.021
29
28
27
26
25

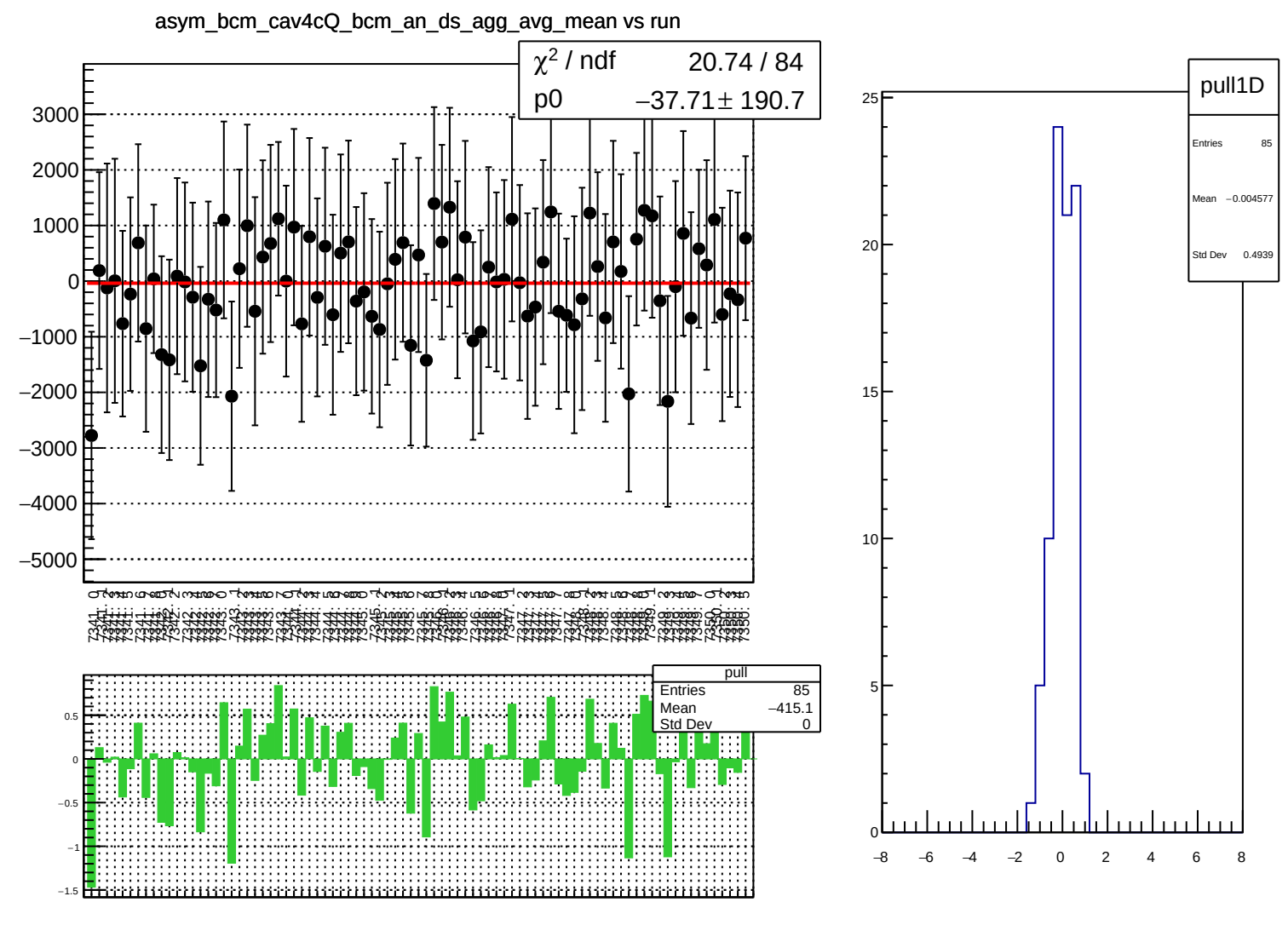

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.37 / 84
p0 −49.89 ± 191.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 85
Mean −390.6
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.004499
Std Dev 0.4773
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

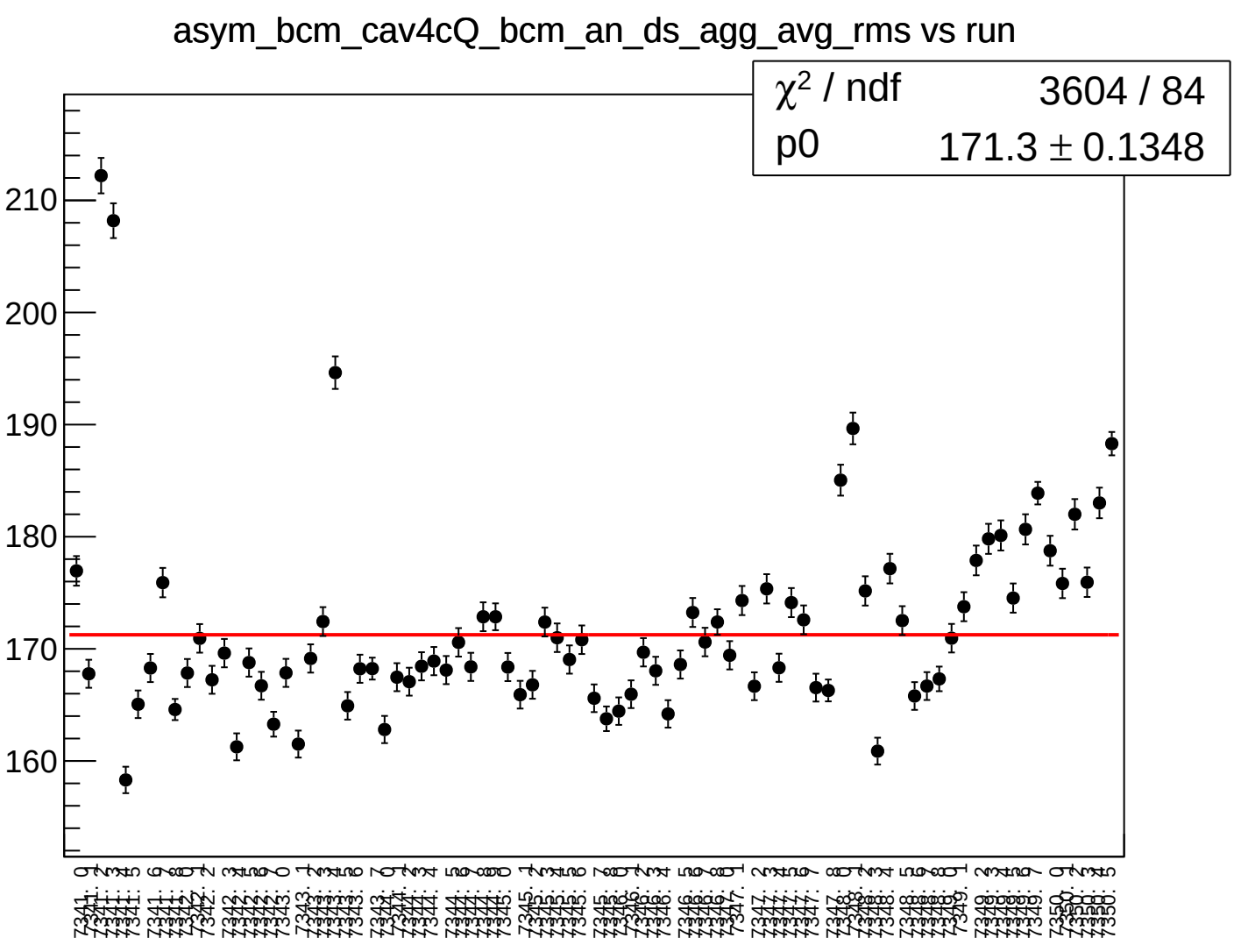

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3563 / 84
p0 171.8 ± 0.1353
220
210
200
190
180
170
160

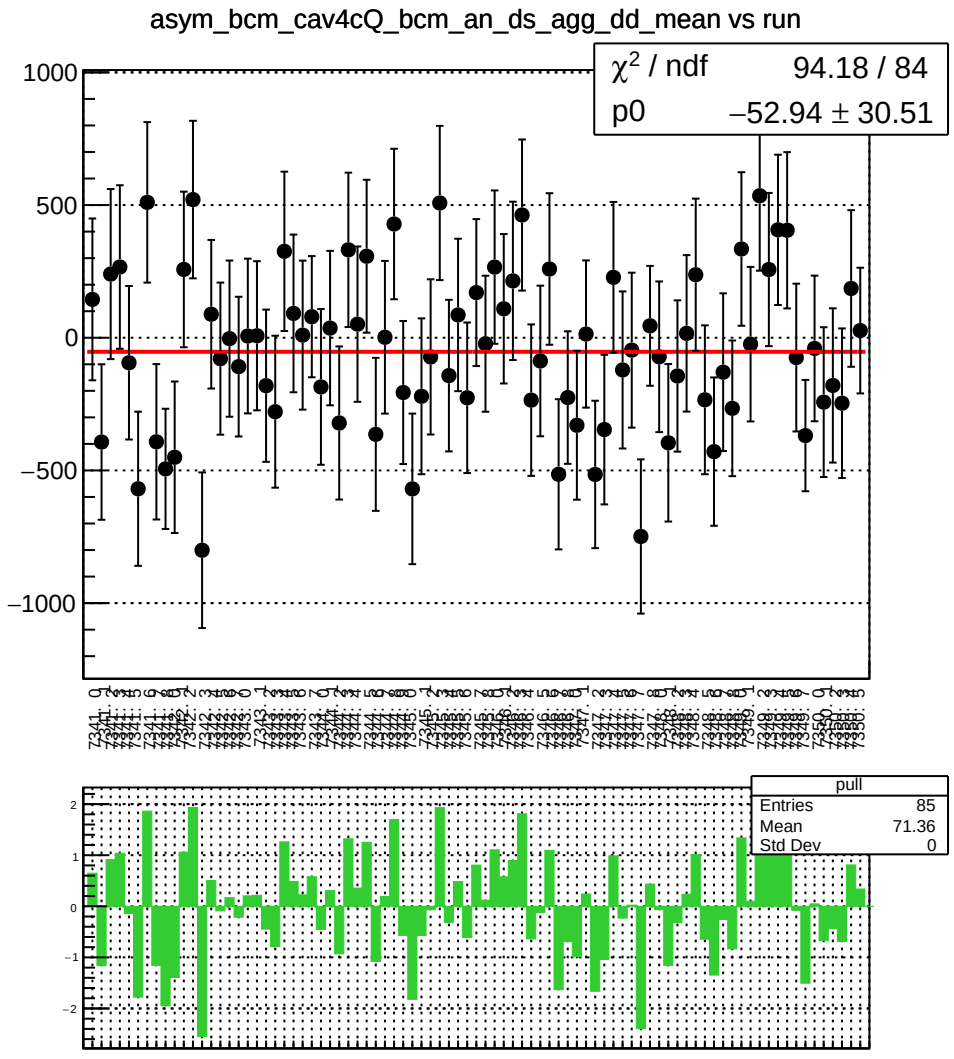

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 94.4 / 84
p0 −38.28 ± 30.72
1000
500
0
−500
−1000
pull
Entries 85
Mean 148.2
Std Dev 0
2
1
0
−1
−2

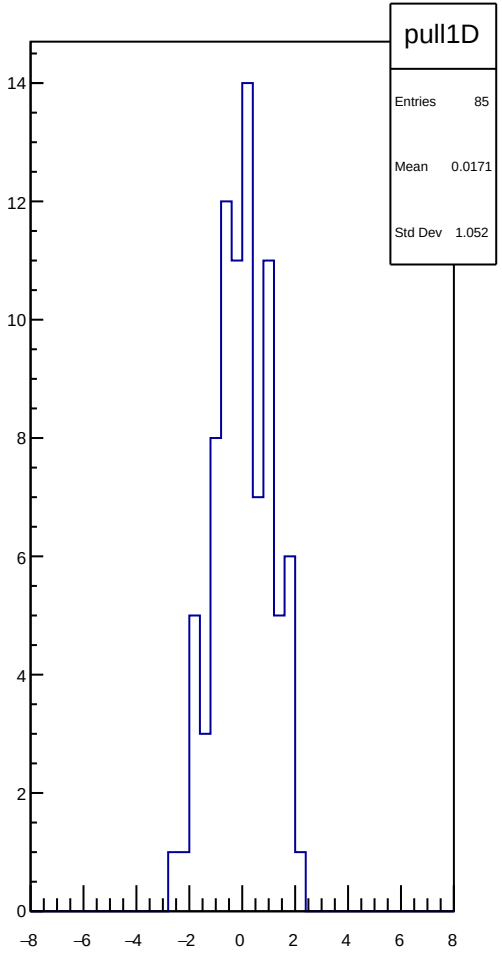

pull1D
Entries 85
Mean 0.01231
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

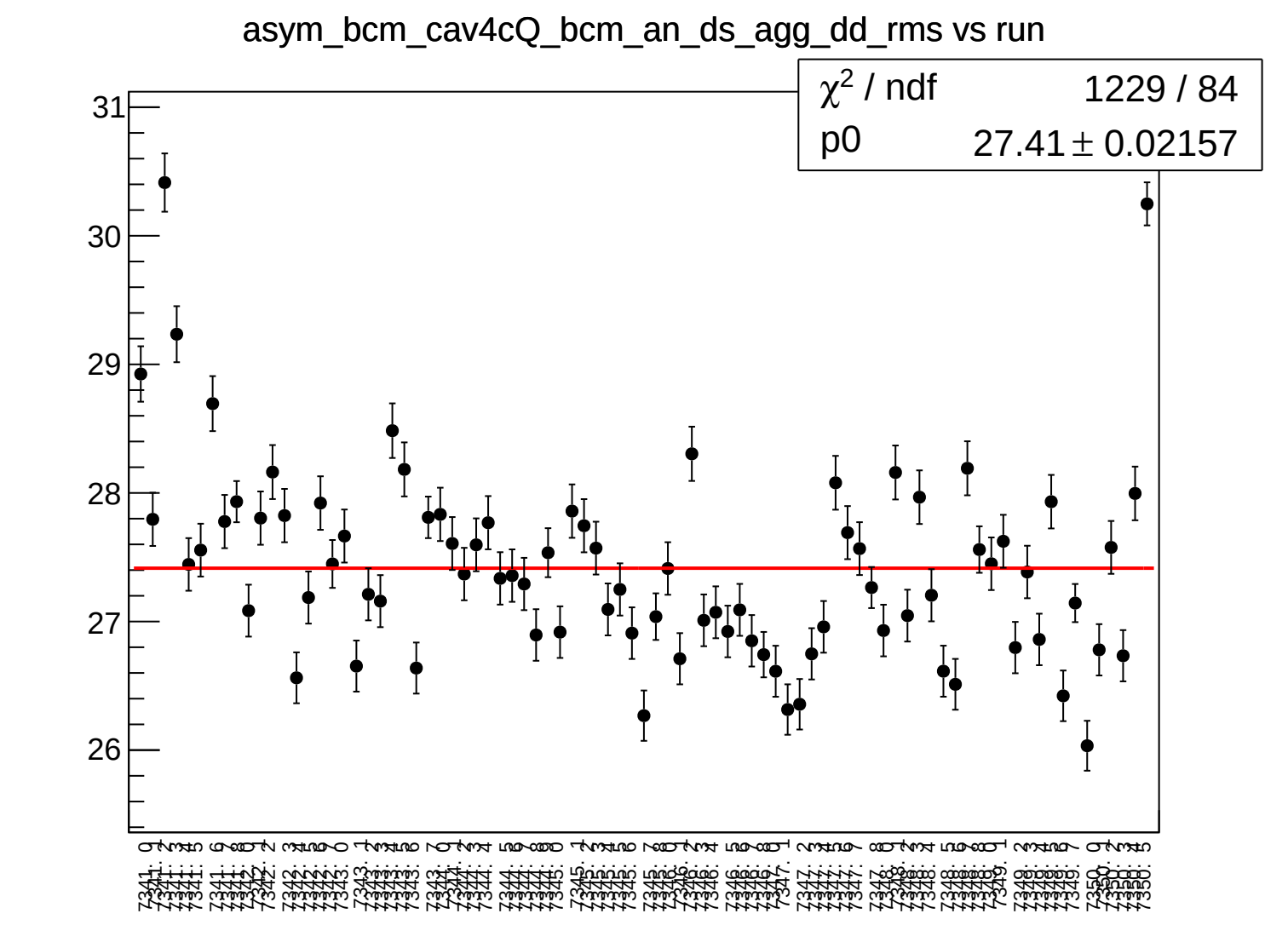

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ^2 / ndf 962.1 / 84
p0 27.61 ± 0.02172
31
30
29
28
27
26

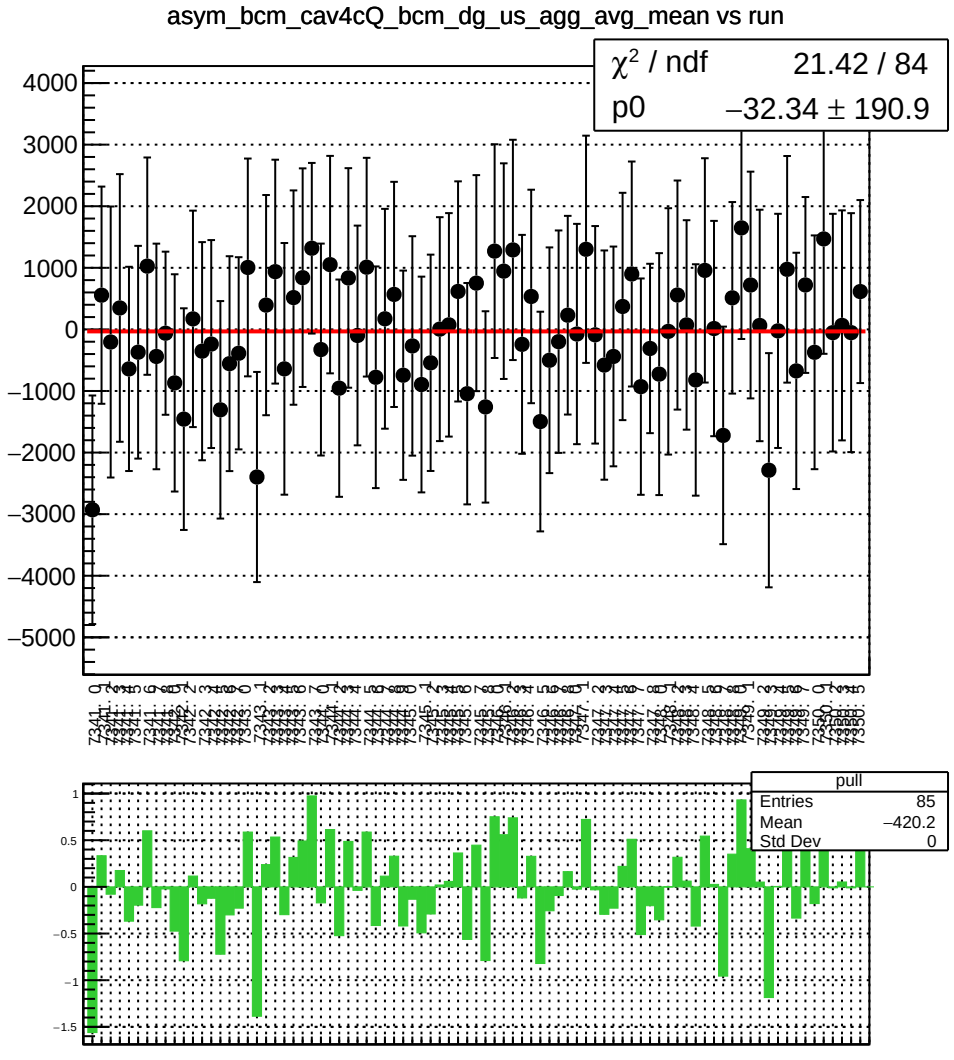

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.74 / 84
p0 −37.71 ± 190.7
pull
Entries 85
Mean −415.1
Std Dev 0
pull1D
Entries 85
Mean −0.004577
Std Dev 0.4939

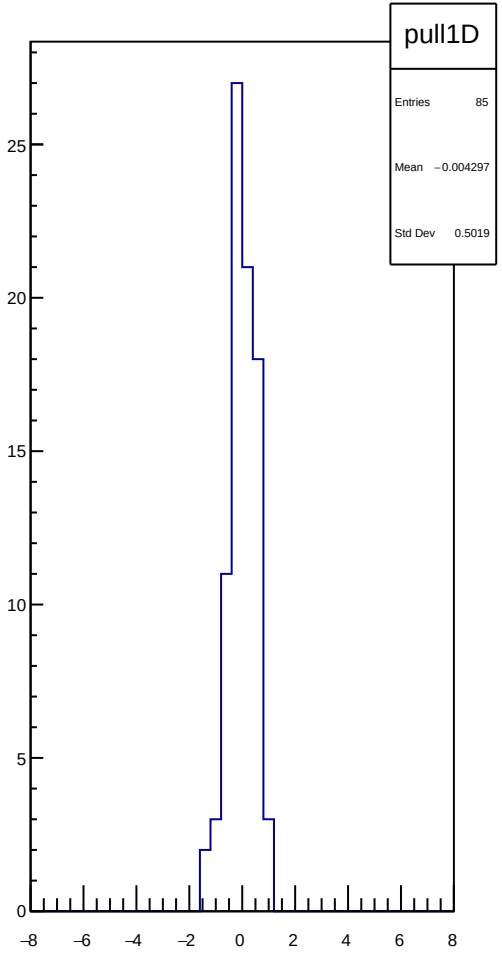

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3604 / 84
p0 171.3 ± 0.1348
210
200
190
180
170
160

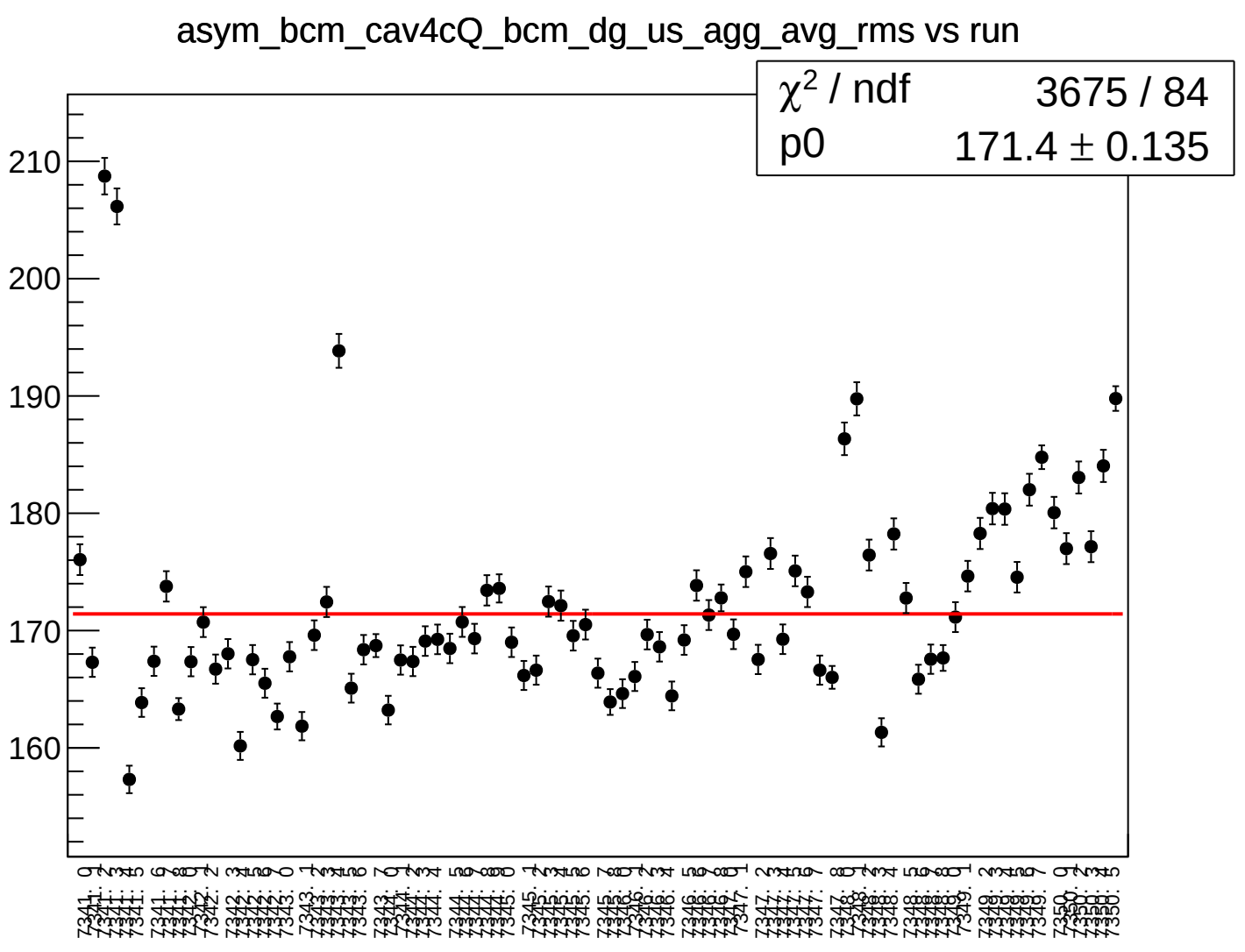

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 94.18 / 84
p0 −52.94 ± 30.51
1000
500
0
−500
−1000
pull
Entries 85
Mean 71.36
Std Dev 0
2
1
0
−1
−2

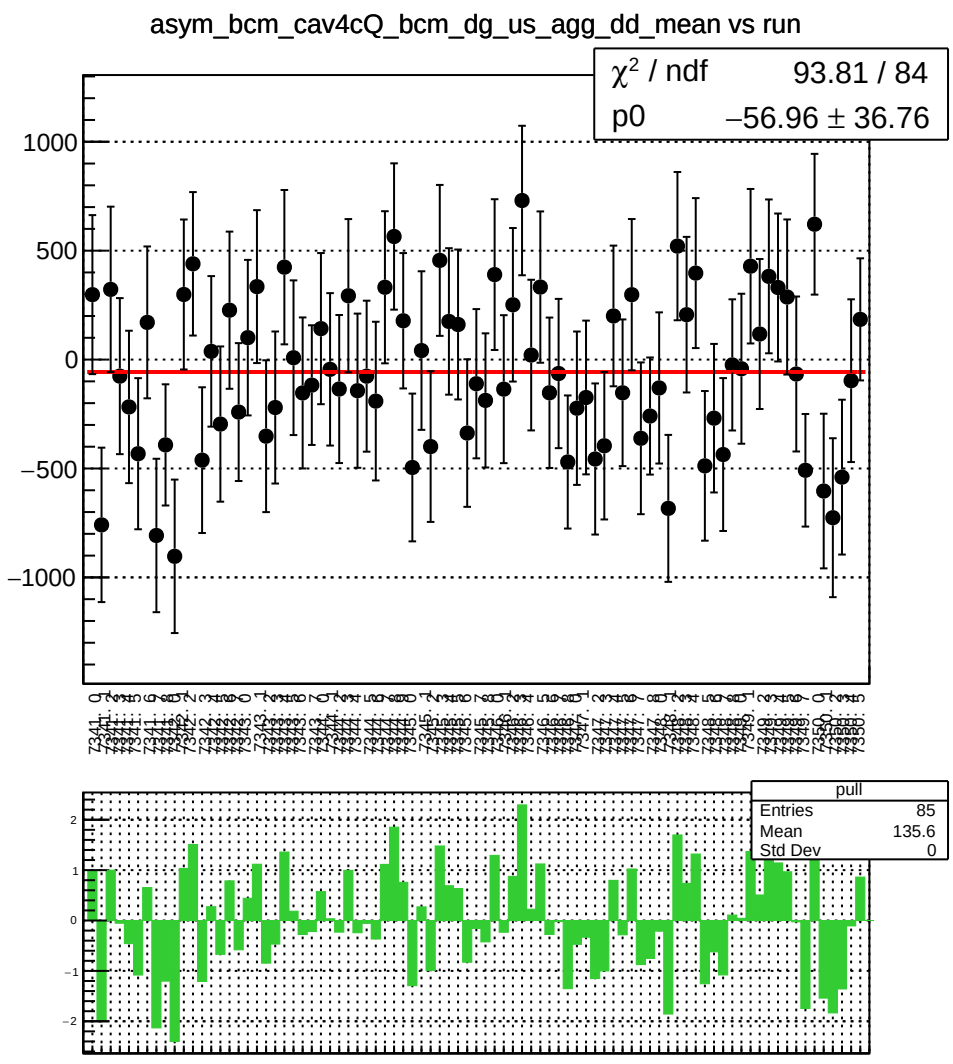

pull1D
Entries 85
Mean 0.0171
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

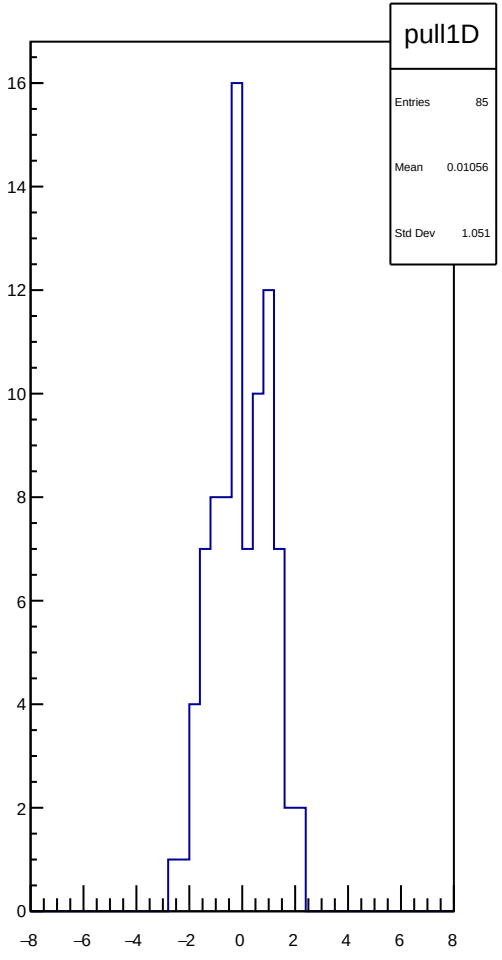

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1229 / 84
p0 27.41 ± 0.02157
31
30
29
28
27
26

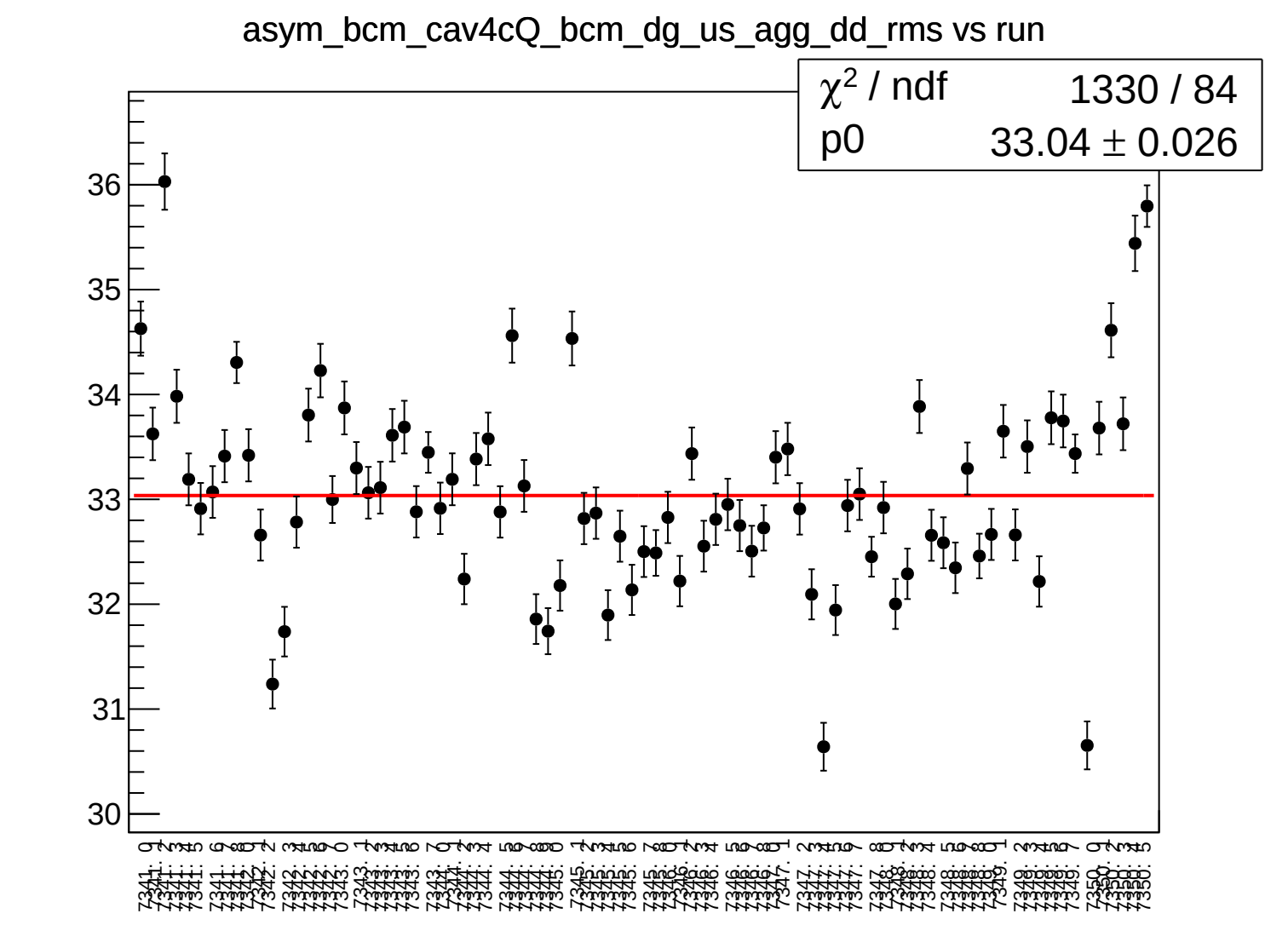

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 21.42 / 84
p0 −32.34 ± 190.9
pull
Entries 85
Mean −420.2
Std Dev 0

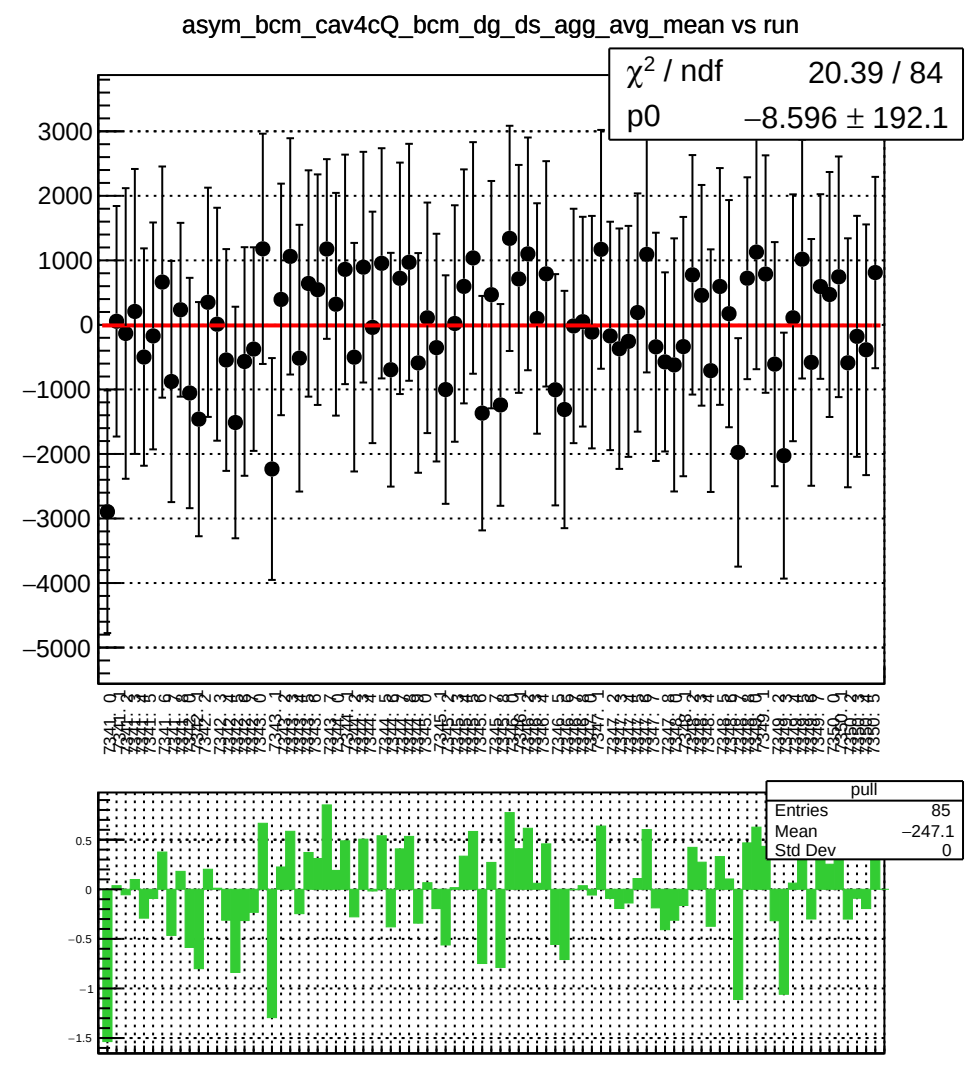

pull1D
Entries 85
Mean −0.004297
Std Dev 0.5019

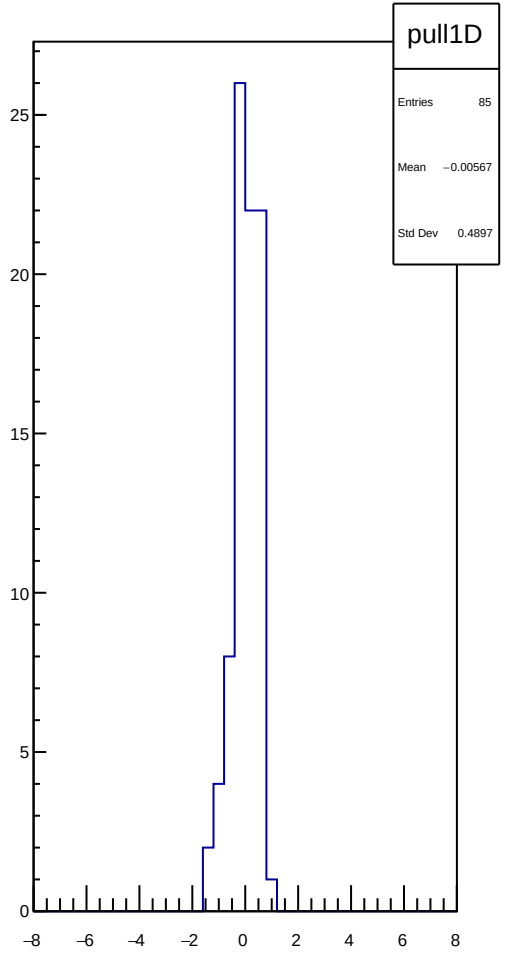

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3675 / 84
p0 171.4 ± 0.135
210
200
190
180
170
160

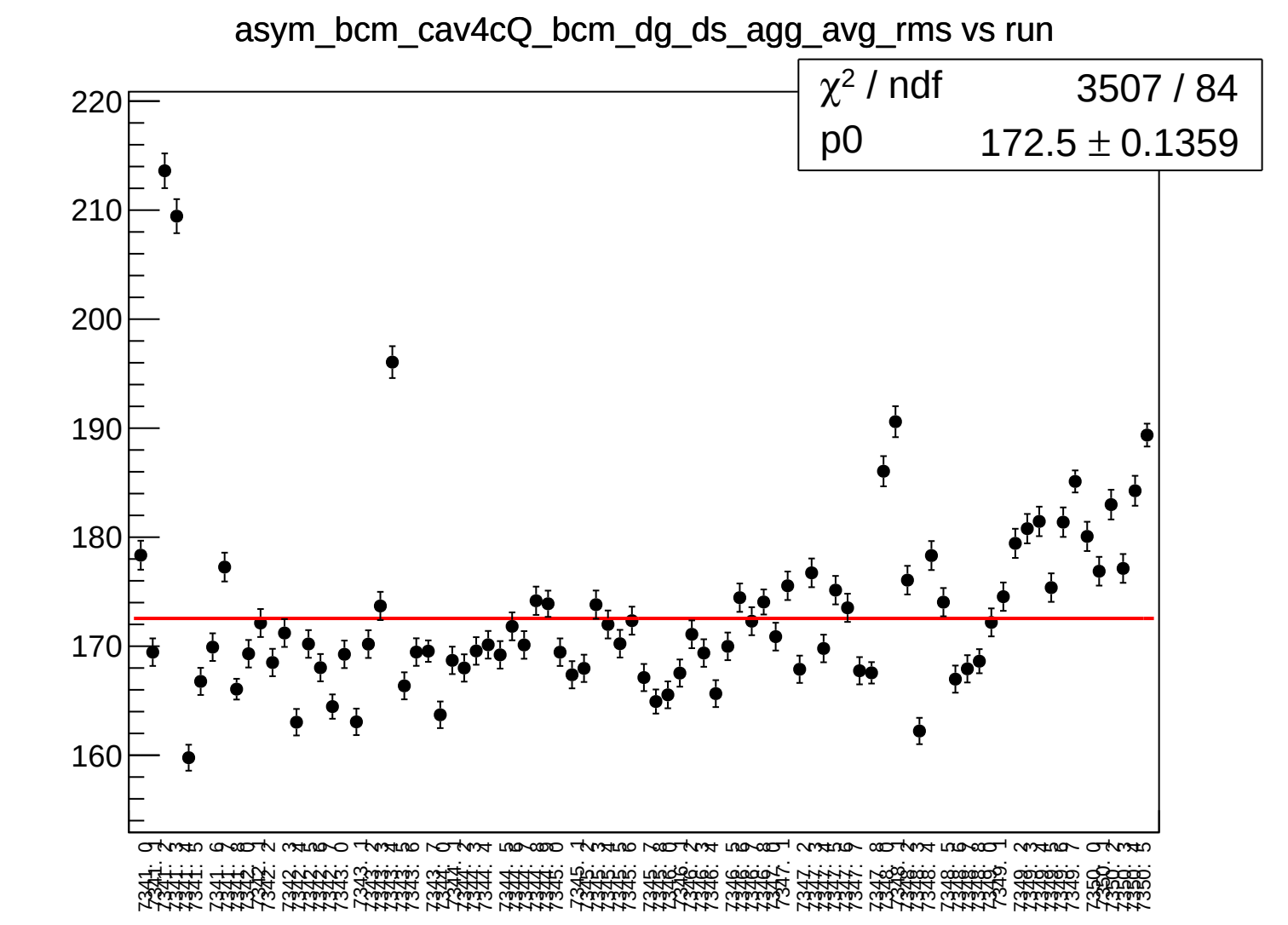

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 93.81 / 84
p0 −56.96 ± 36.76
1000
500
0
−500
−1000
pull
Entries 85
Mean 135.6
Std Dev 0
2
1
0
−1
−2

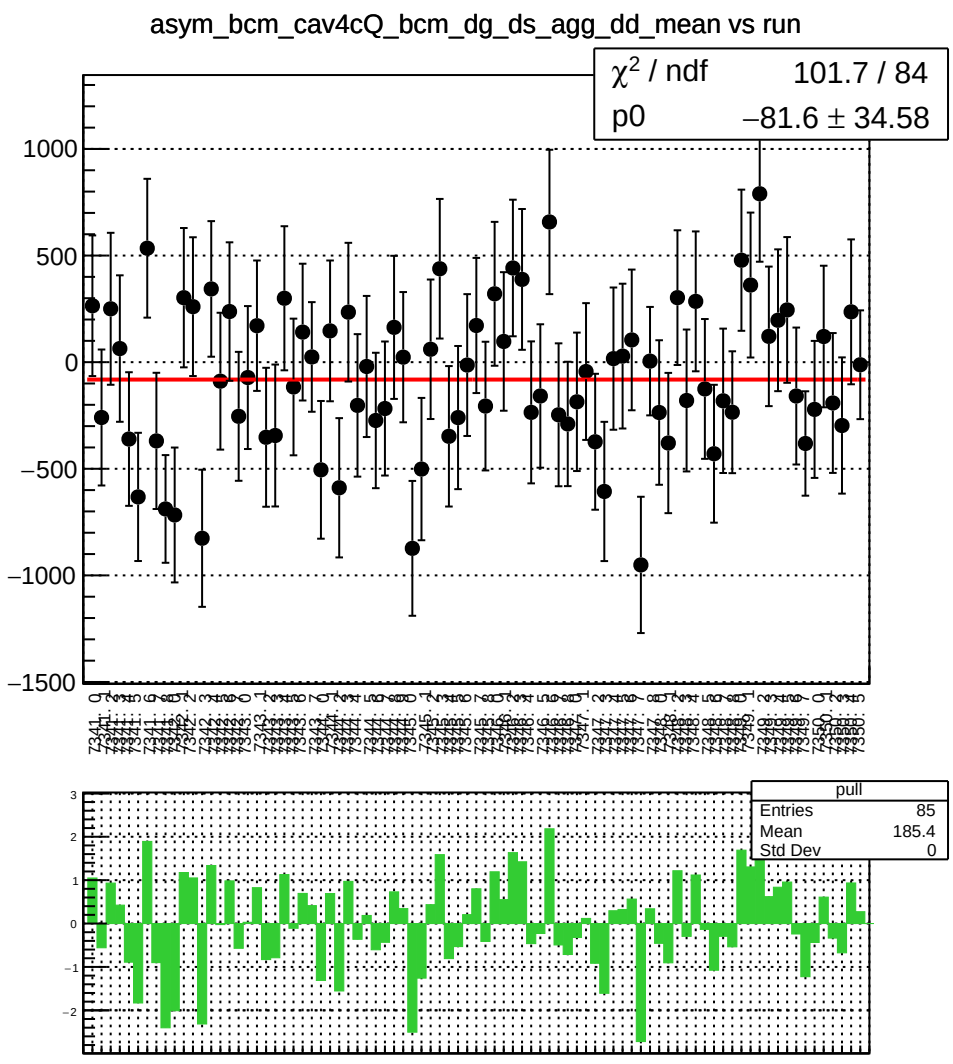

pull1D
Entries 85
Mean 0.01056
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

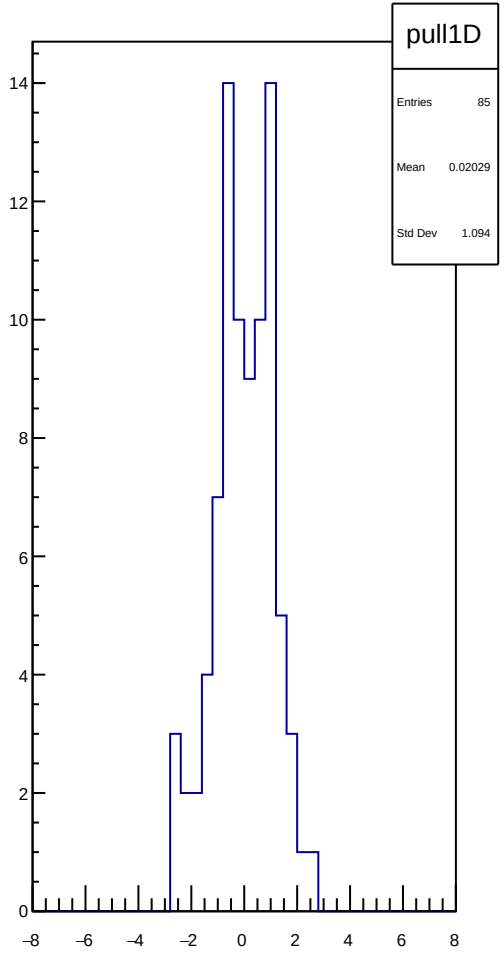

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1330 / 84
p0 33.04 ± 0.026
36
35
34
33
32
31
30

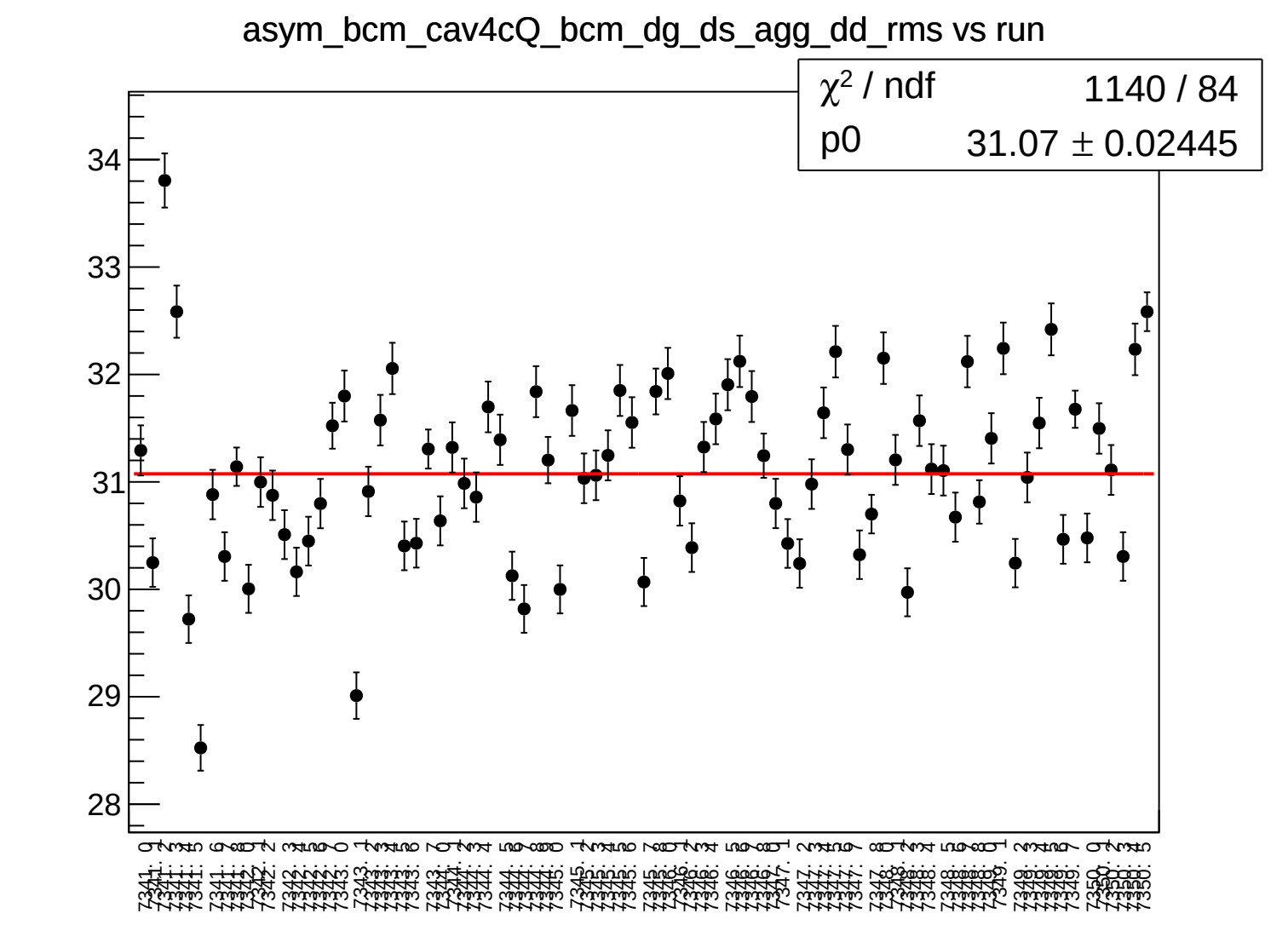

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 20.39 / 84
p0 −8.596 ± 192.1
pull
Entries 85
Mean −247.1
Std Dev 0

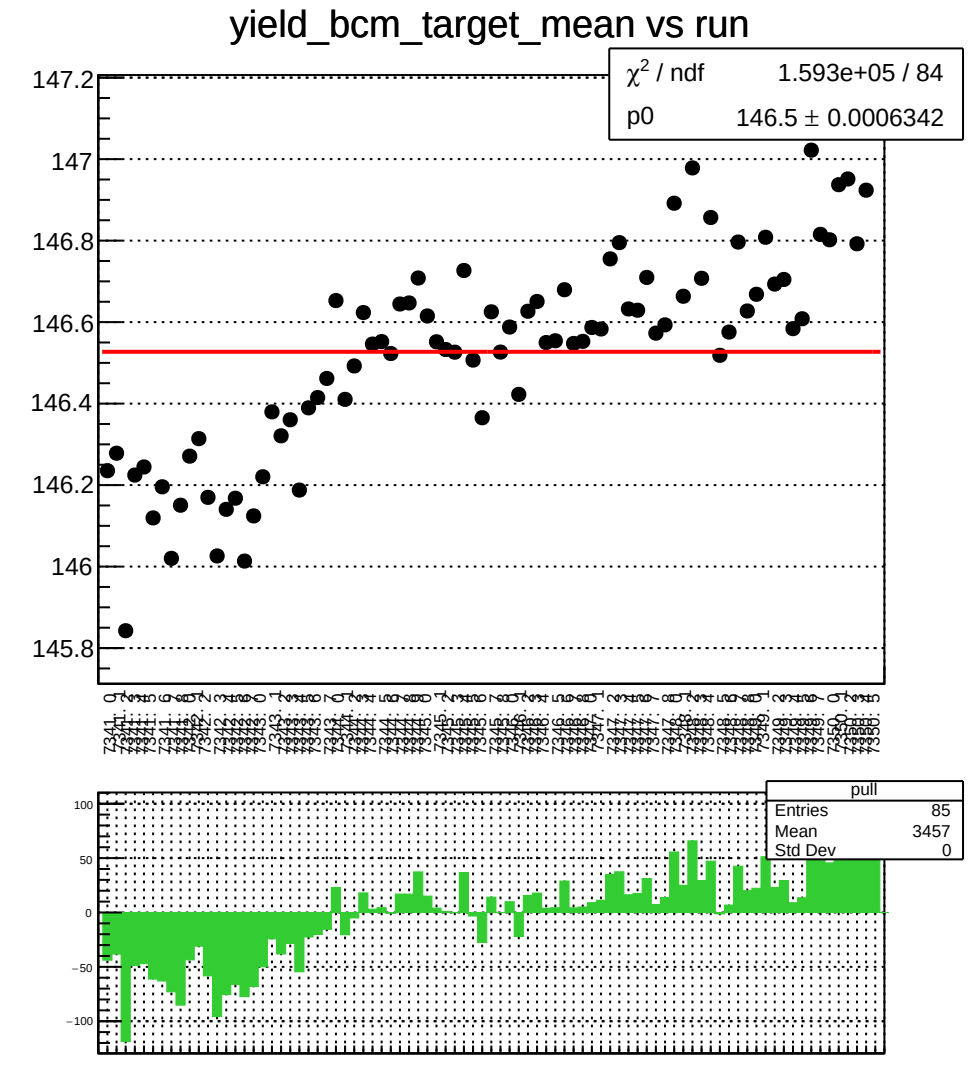

pull1D
Entries 85
Mean −0.00567
Std Dev 0.4897

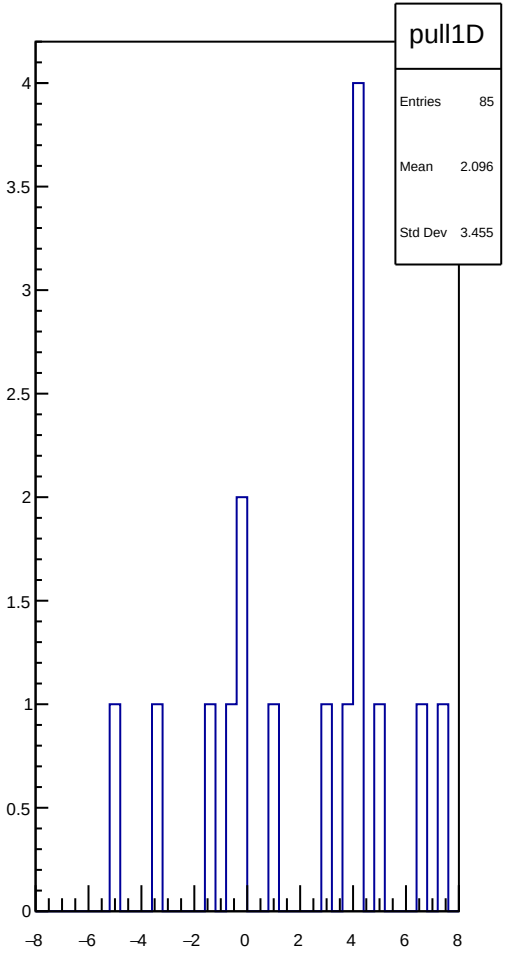

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3507 / 84
p0 172.5 ± 0.1359
220
210
200
190
180
170
160

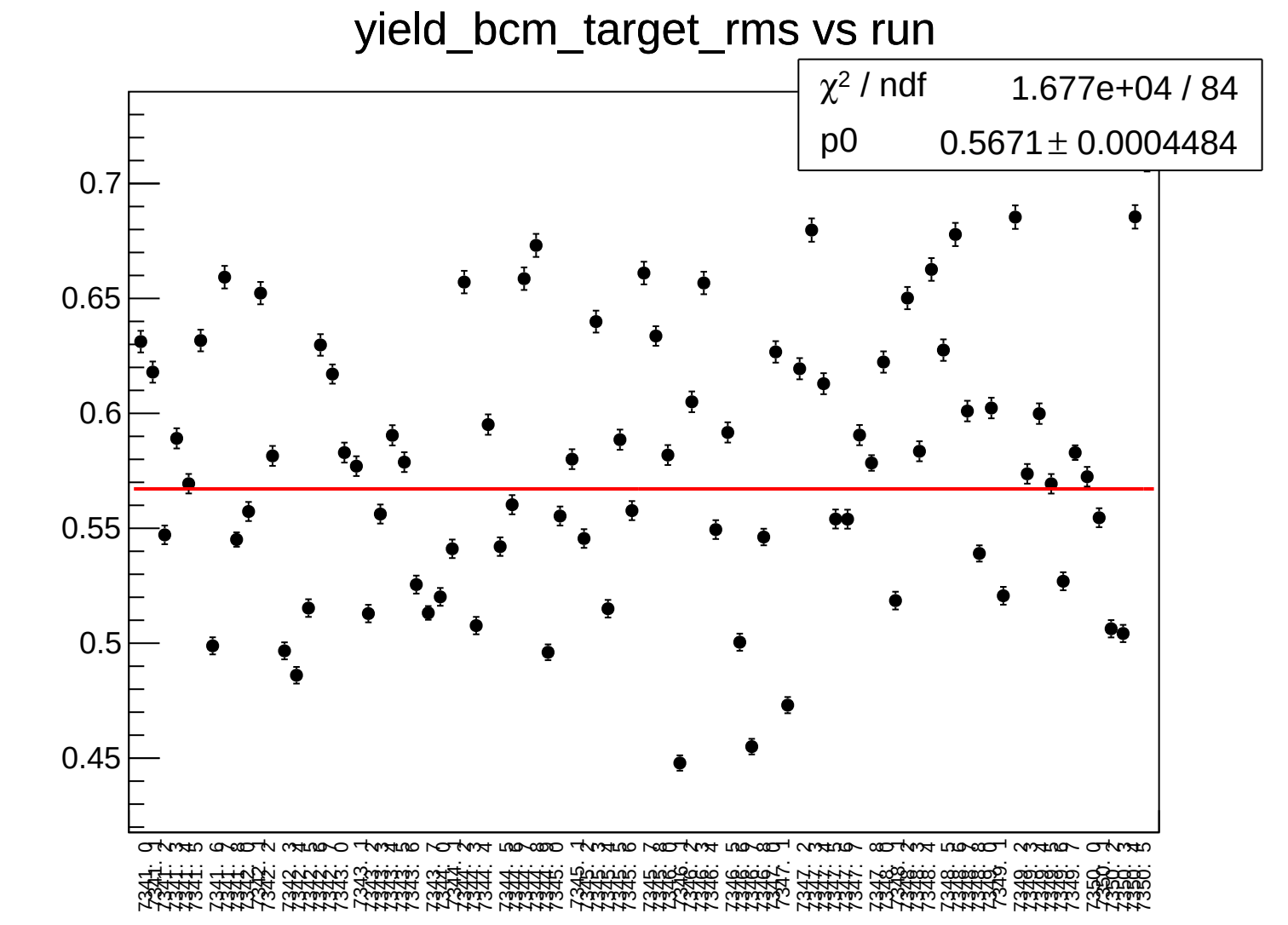

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 101.7 / 84
p0 −81.6 ± 34.58
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 185.4
Std Dev 0
3
2
1
0
−1
−2

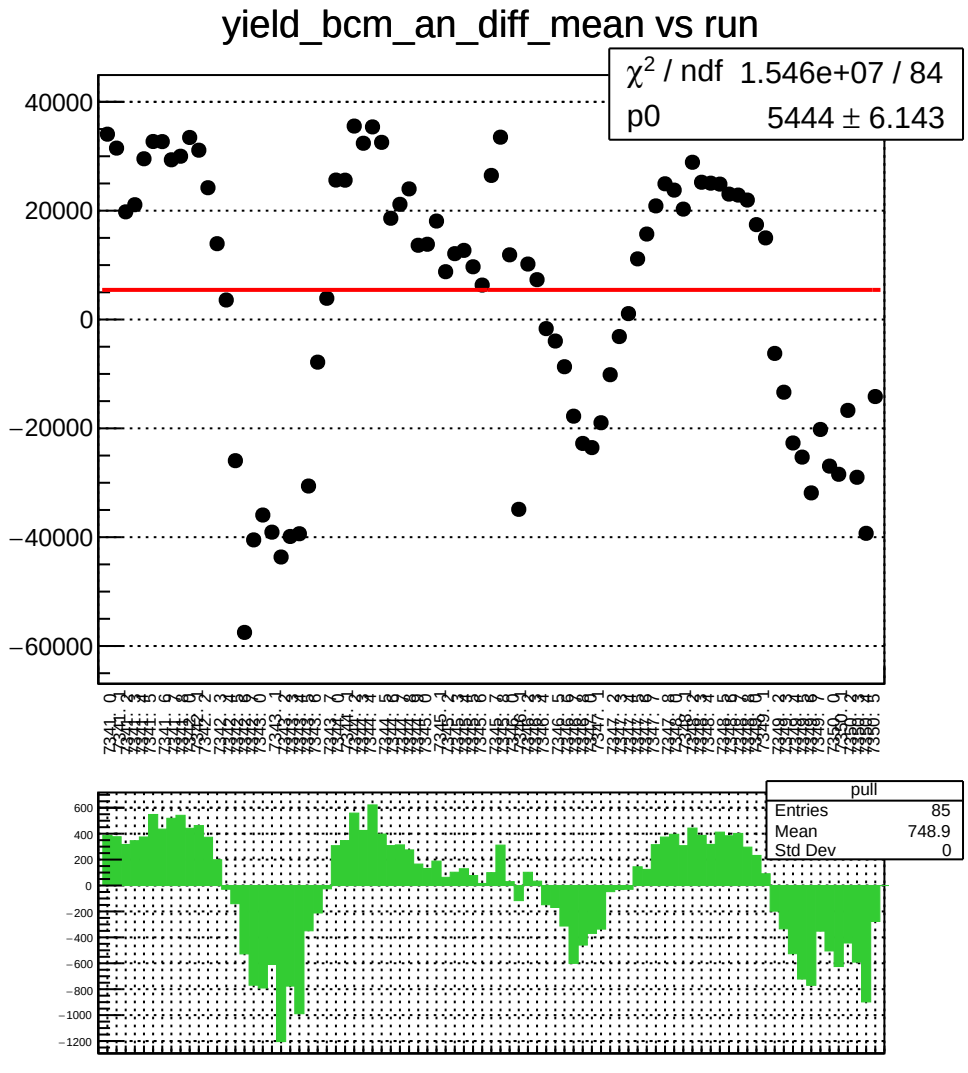

pull1D
Entries 85
Mean 0.02029
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

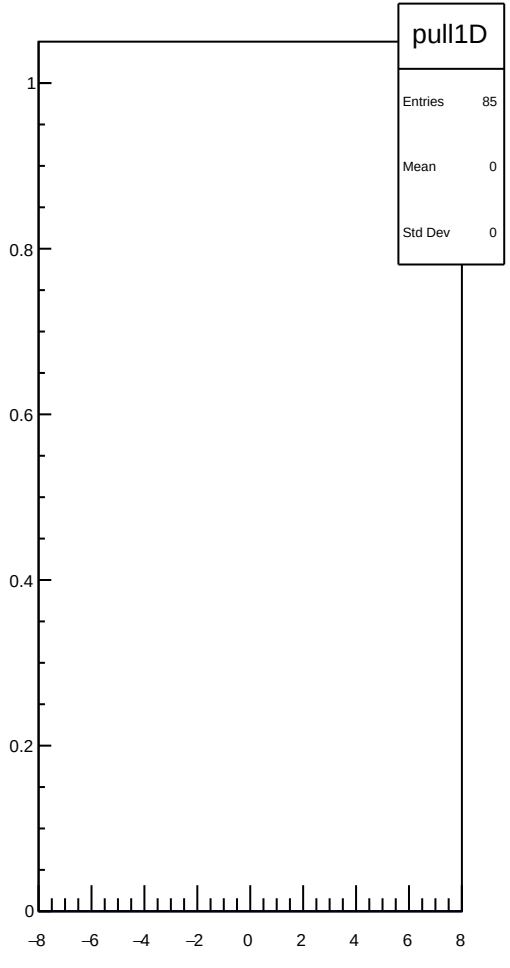

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1140 / 84
p0 31.07 ± 0.02445
34
33
32
31
30
29
28

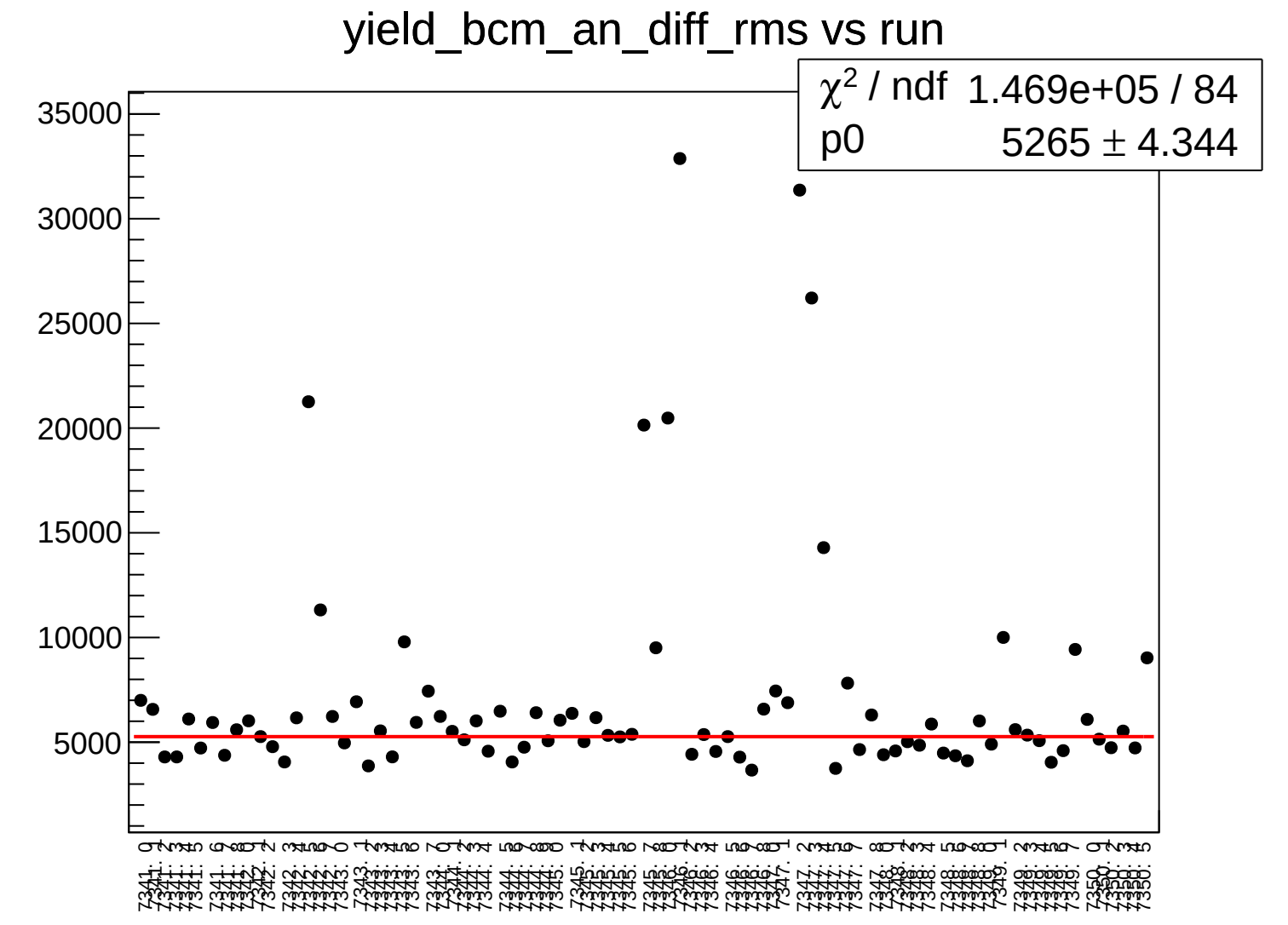

yield_bcm_target_mean vs run
χ² / ndf 1.593e+05 / 84
p0 146.5 ± 0.0006342
147.2
147
146.8
146.6
146.4
146.2
146
145.8
pull
Entries 85
Mean 3457
Std Dev 0
100
50
0
−50
−100

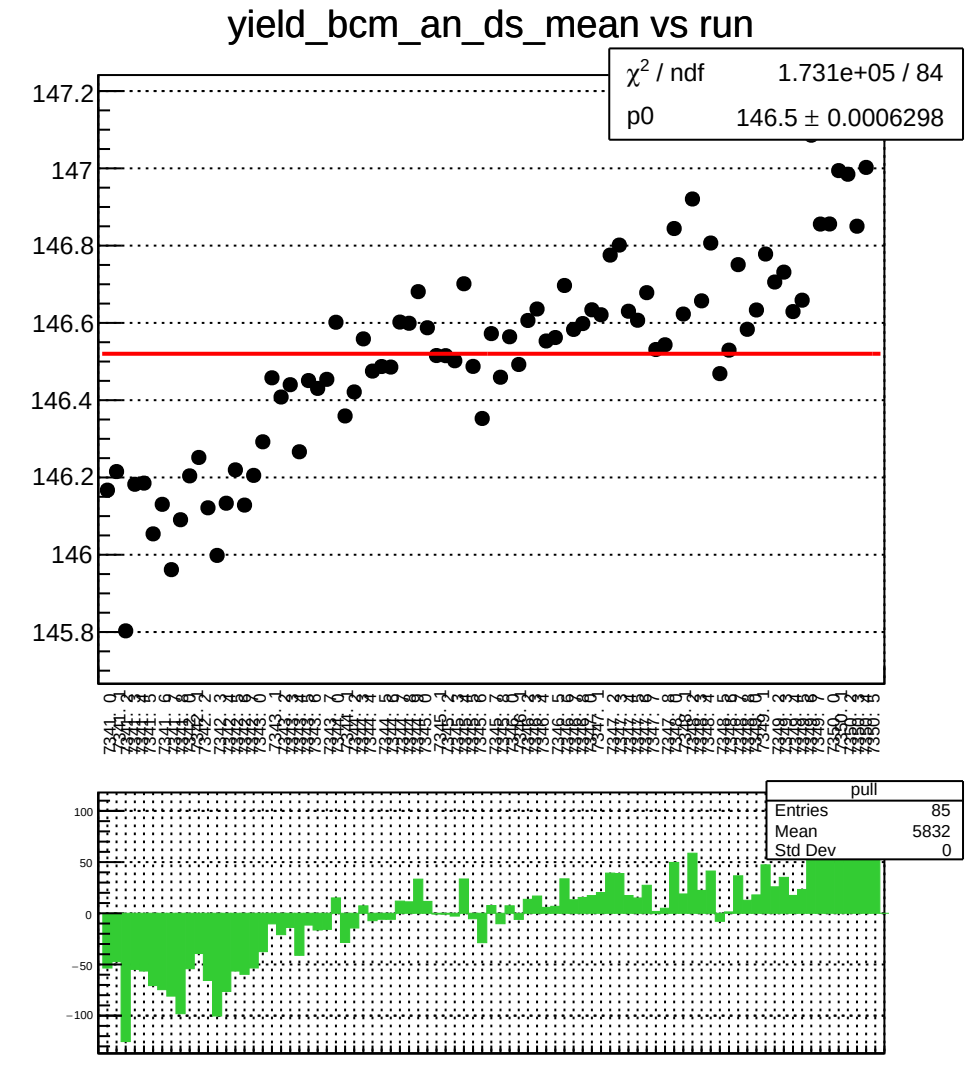

pull1D
Entries 85
Mean 2.096
Std Dev 3.455
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

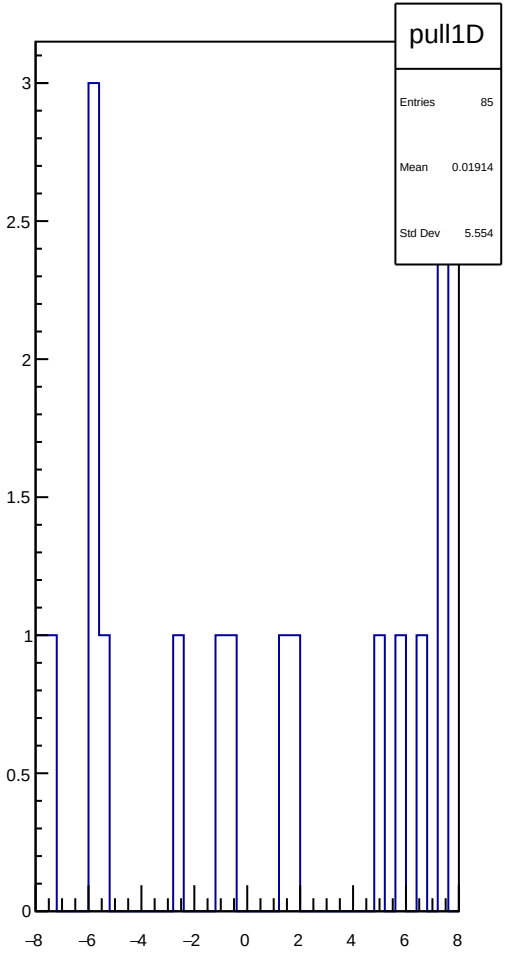

yield_bcm_target_rms vs run
χ² / ndf 1.677e+04 / 84
p0 0.5671 ± 0.0004484
0.7
0.65
0.6
0.55
0.5
0.45

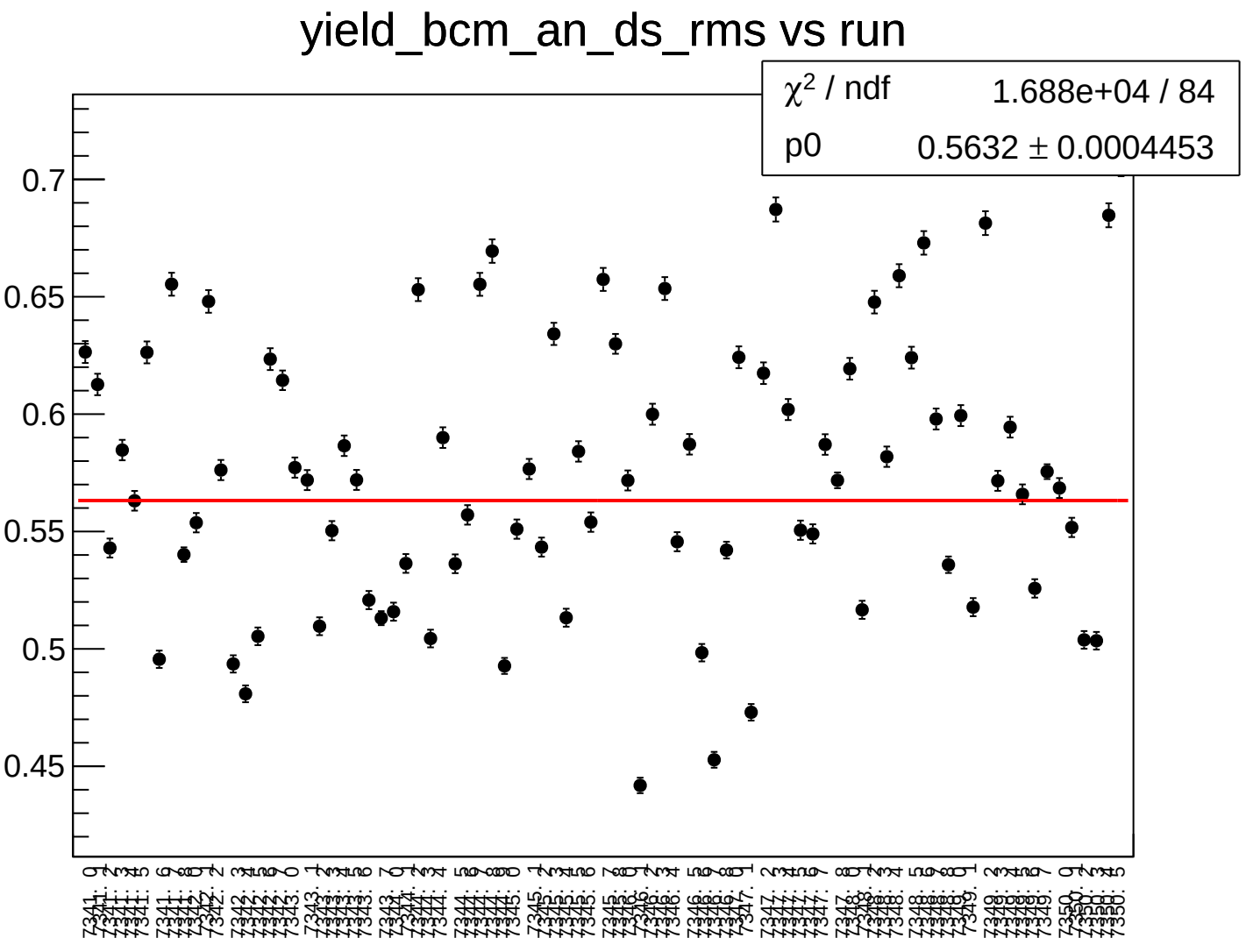

yield_bcm_an_diff_mean vs run
χ² / ndf 1.546e+07 / 84
p0 5444 ± 6.143
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean 748.9
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

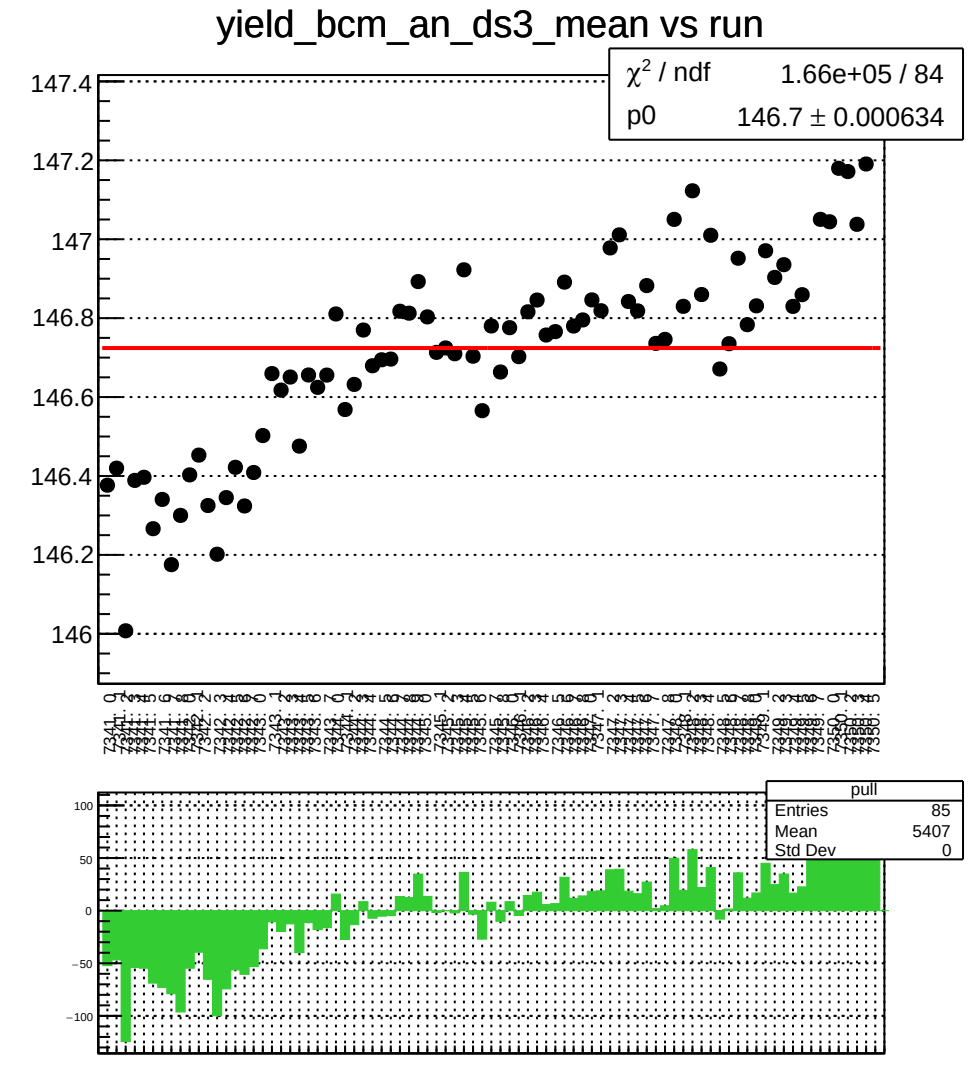

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

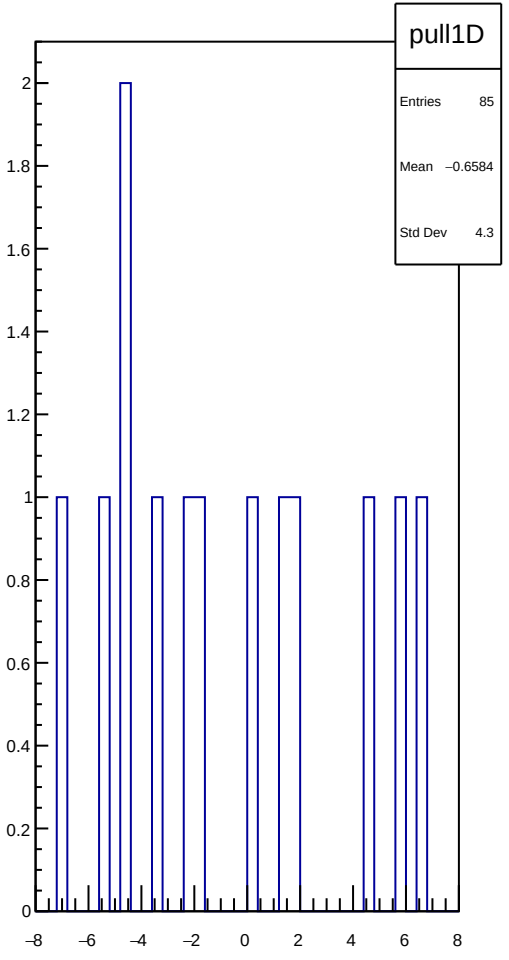

yield_bcm_an_diff_rms vs run
χ² / ndf 1.469e+05 / 84
p0 5265 ± 4.344
35000
30000
25000
20000
15000
10000
5000

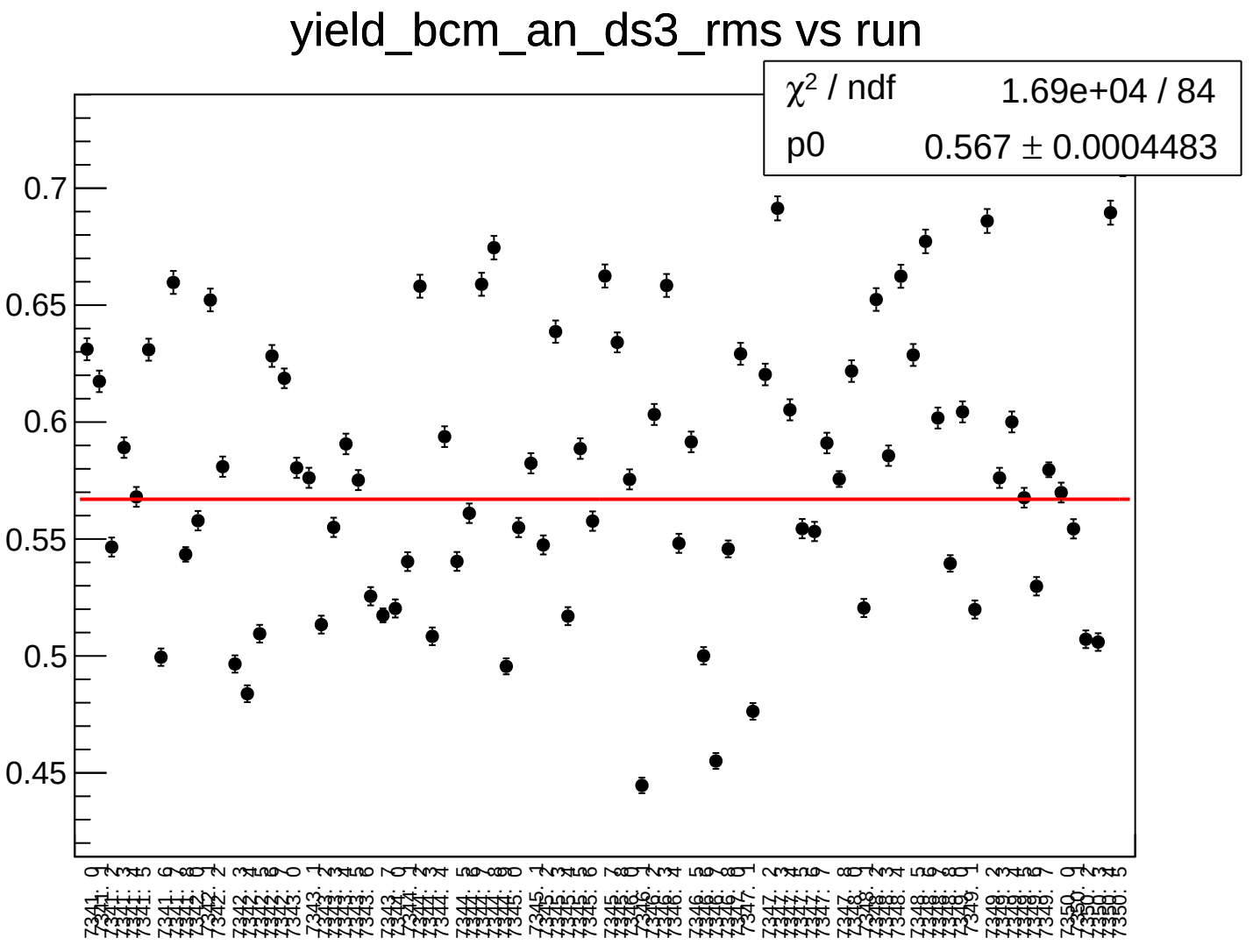

yield_bcm_an_ds_mean vs run
χ² / ndf 1.731e+05 / 84
p0 146.5 ± 0.0006298
147.2
147
146.8
146.6
146.4
146.2
146
145.8
pull
Entries 85
Mean 5832
Std Dev 0
100
50
0
−50
−100

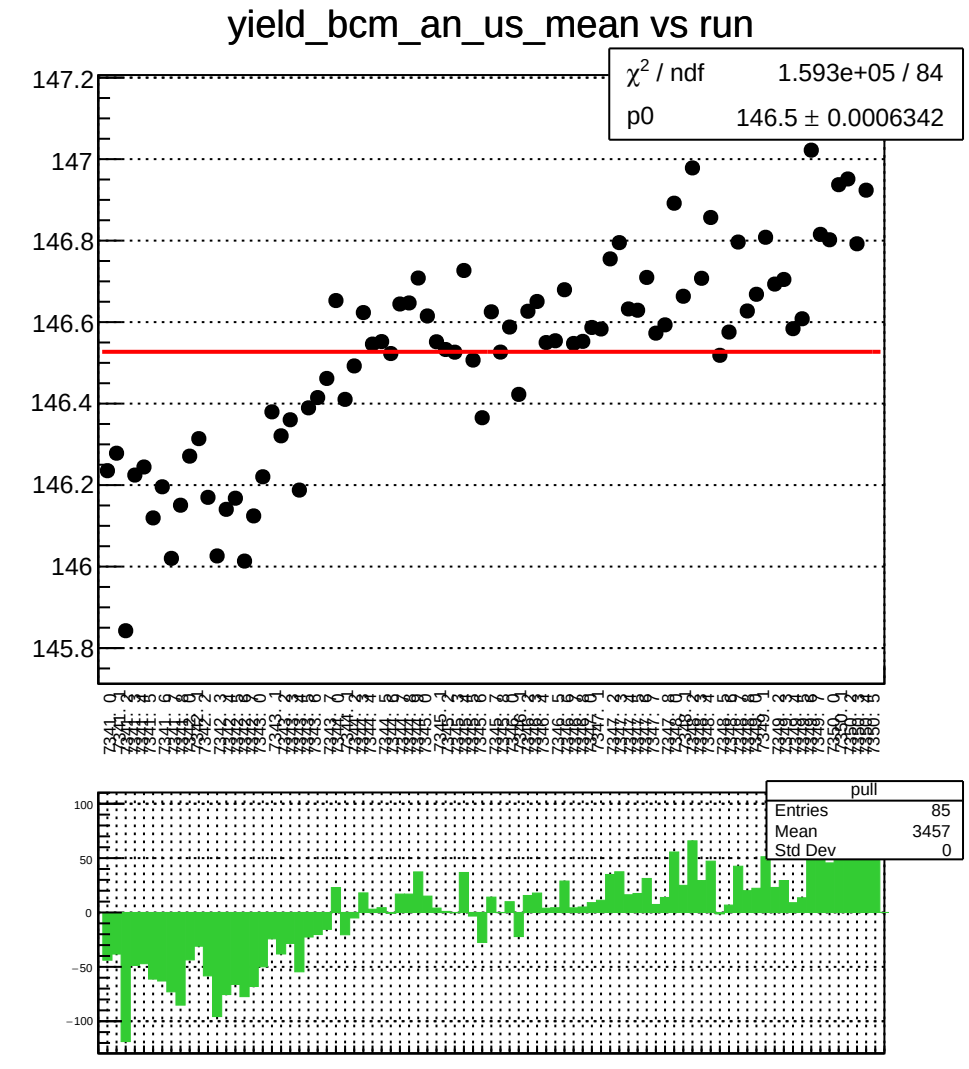

pull1D
Entries 85
Mean 0.01914
Std Dev 5.554
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

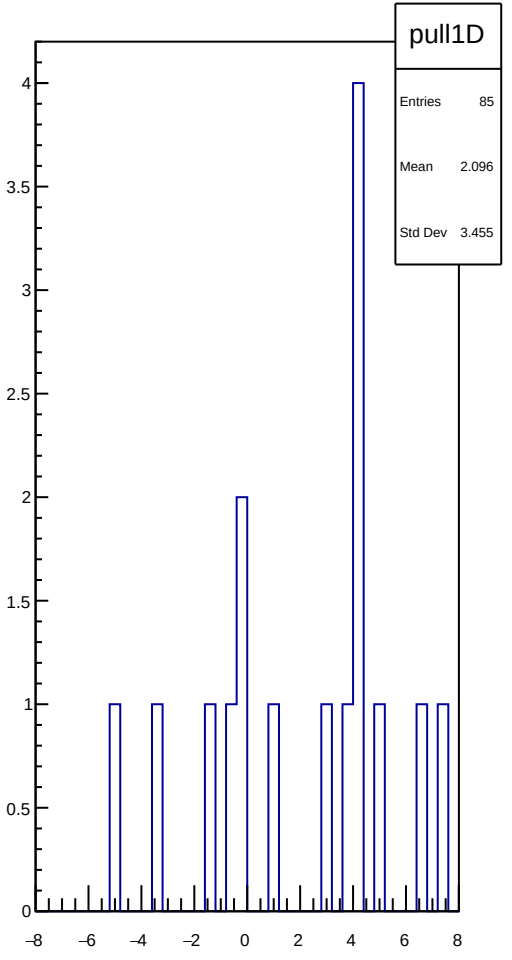

yield_bcm_an_ds_rms vs run
χ² / ndf 1.688e+04 / 84
p0 0.5632 ± 0.0004453
0.7
0.65
0.6
0.55
0.5
0.45

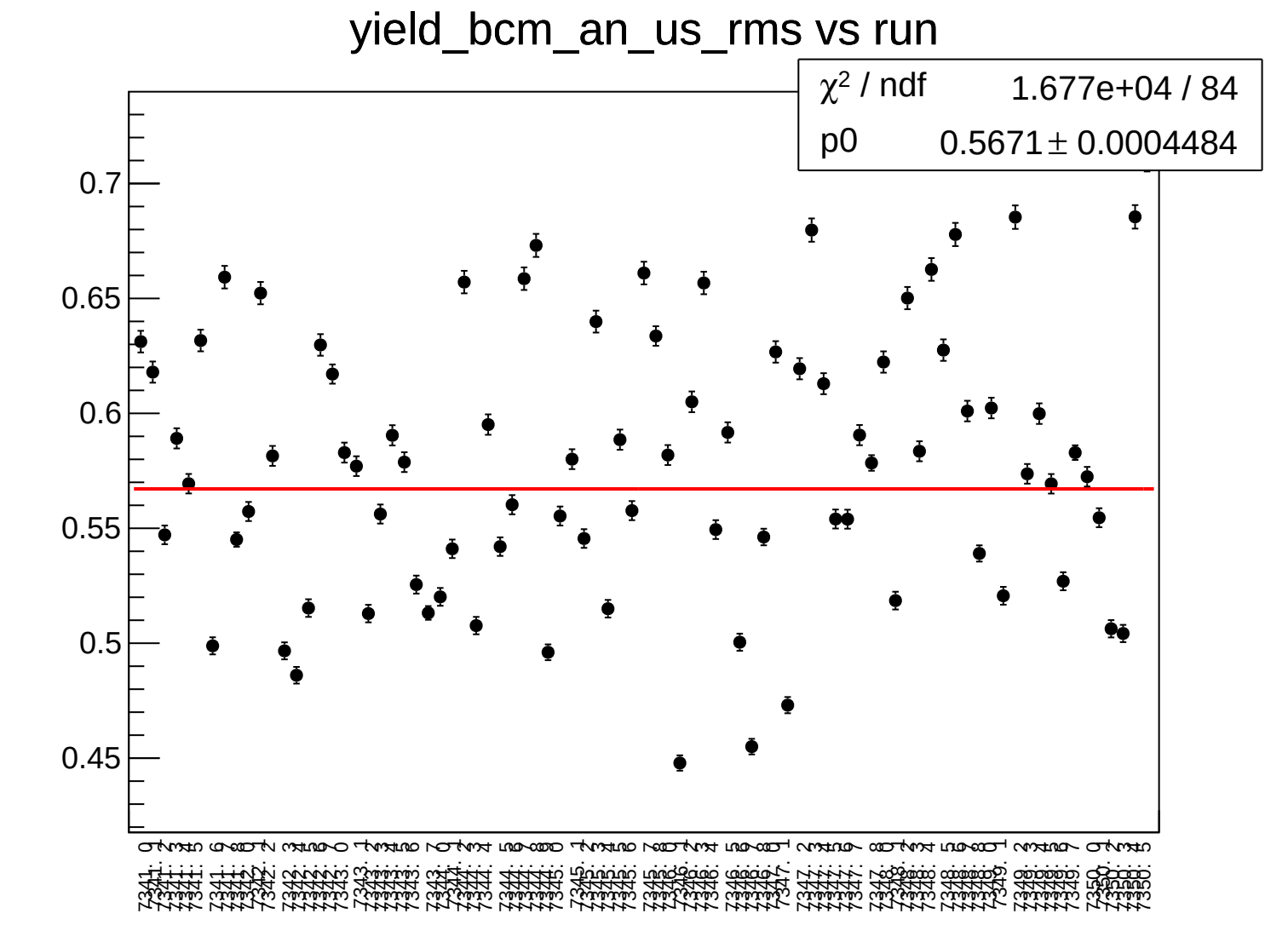

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.66e+05 / 84
p0 146.7 ± 0.000634
147.4
147.2
147
146.8
146.6
146.4
146.2
146
pull
Entries 85
Mean 5407
Std Dev 0
100
50
0
−50
−100

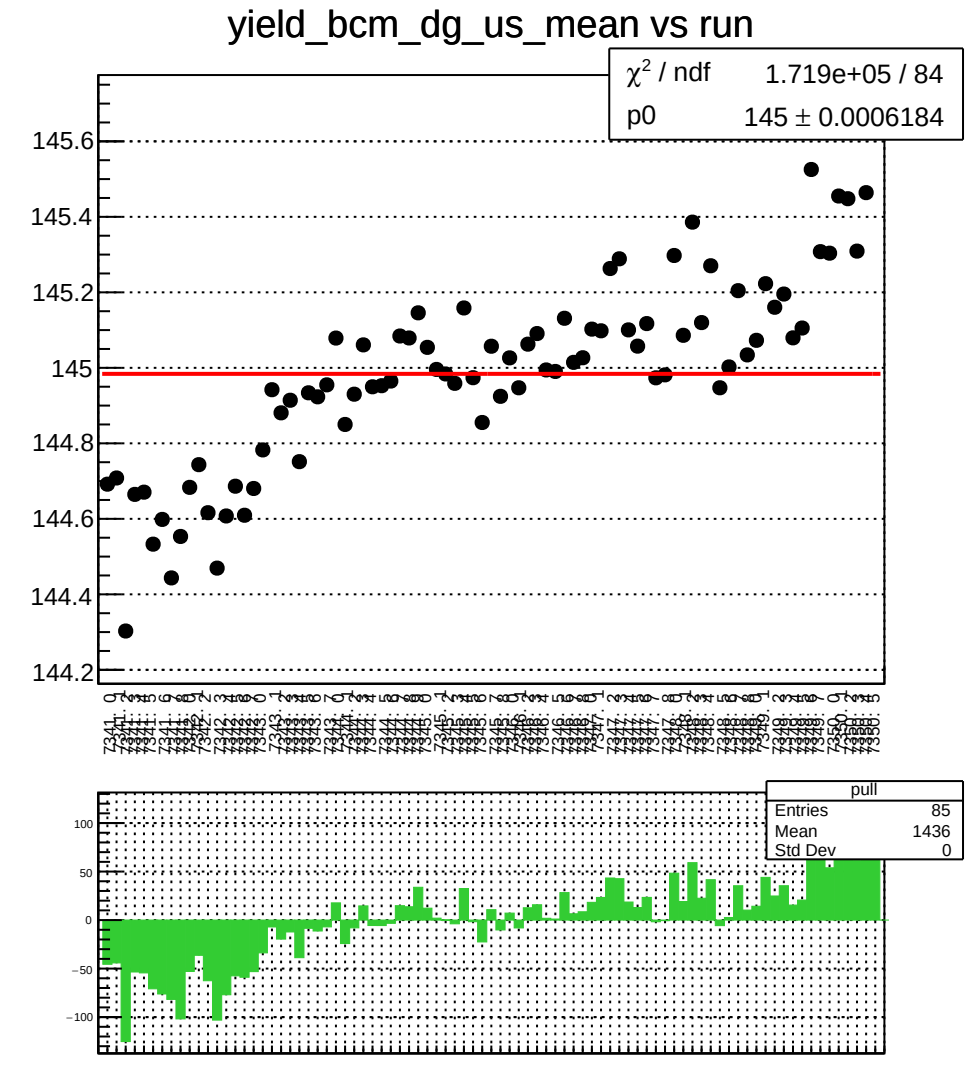

pull1D
Entries 85
Mean −0.6584
Std Dev 4.3
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

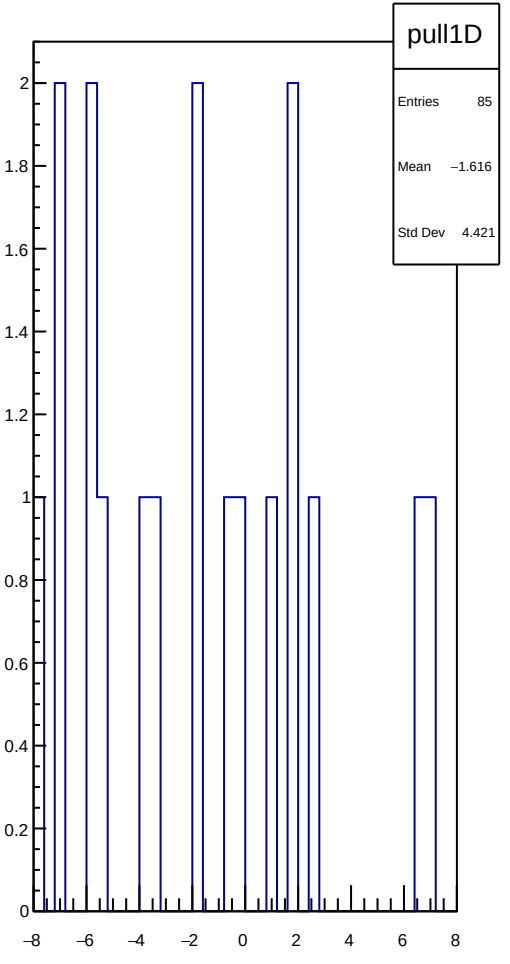

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.69e+04 / 84
p0 0.567 ± 0.0004483
0.7
0.65
0.6
0.55
0.5
0.45

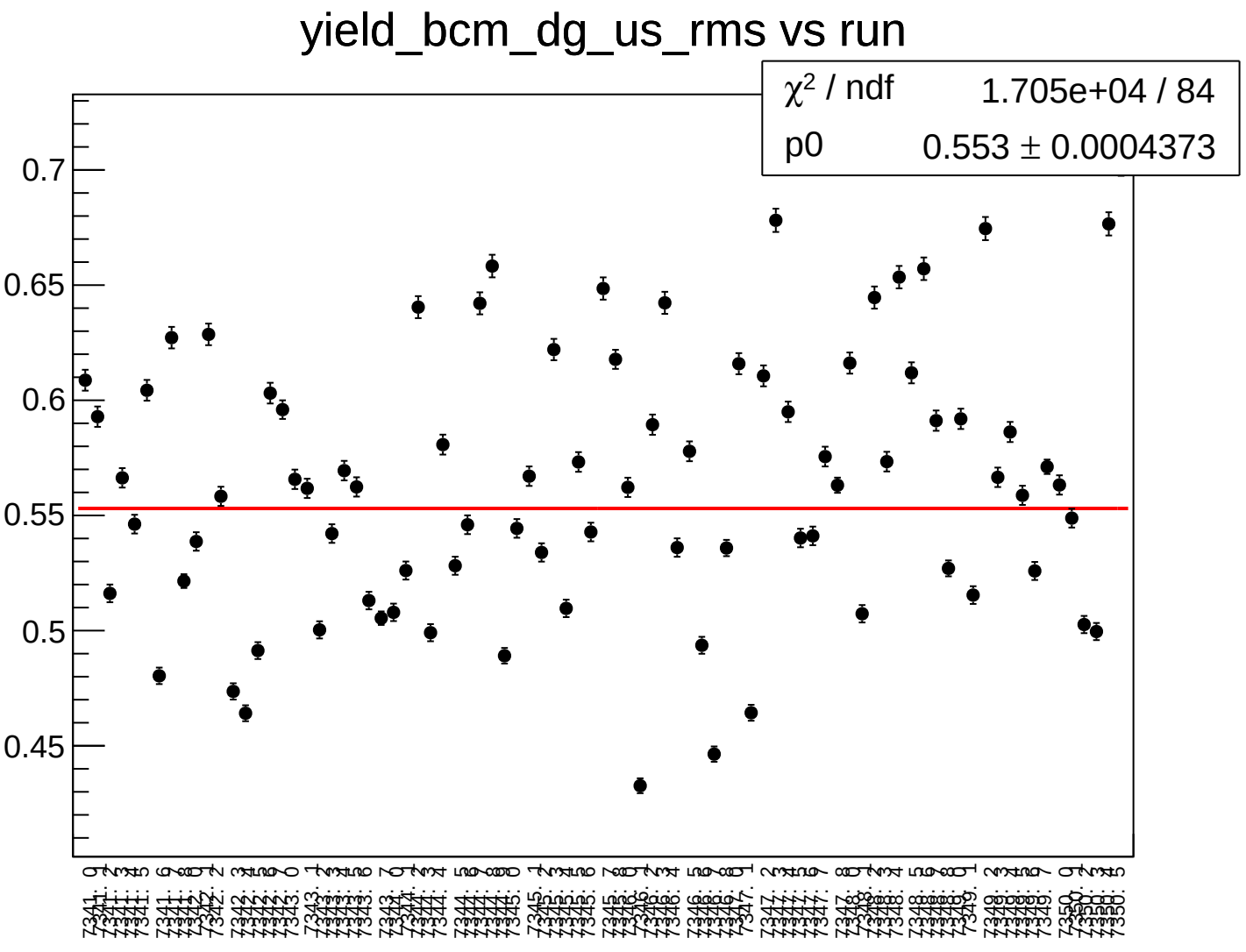

yield_bcm_an_us_mean vs run
χ² / ndf 1.593e+05 / 84
p0 146.5 ± 0.0006342
147.2
147
146.8
146.6
146.4
146.2
146
145.8
pull
Entries 85
Mean 3457
Std Dev 0
100
50
0
−50
−100

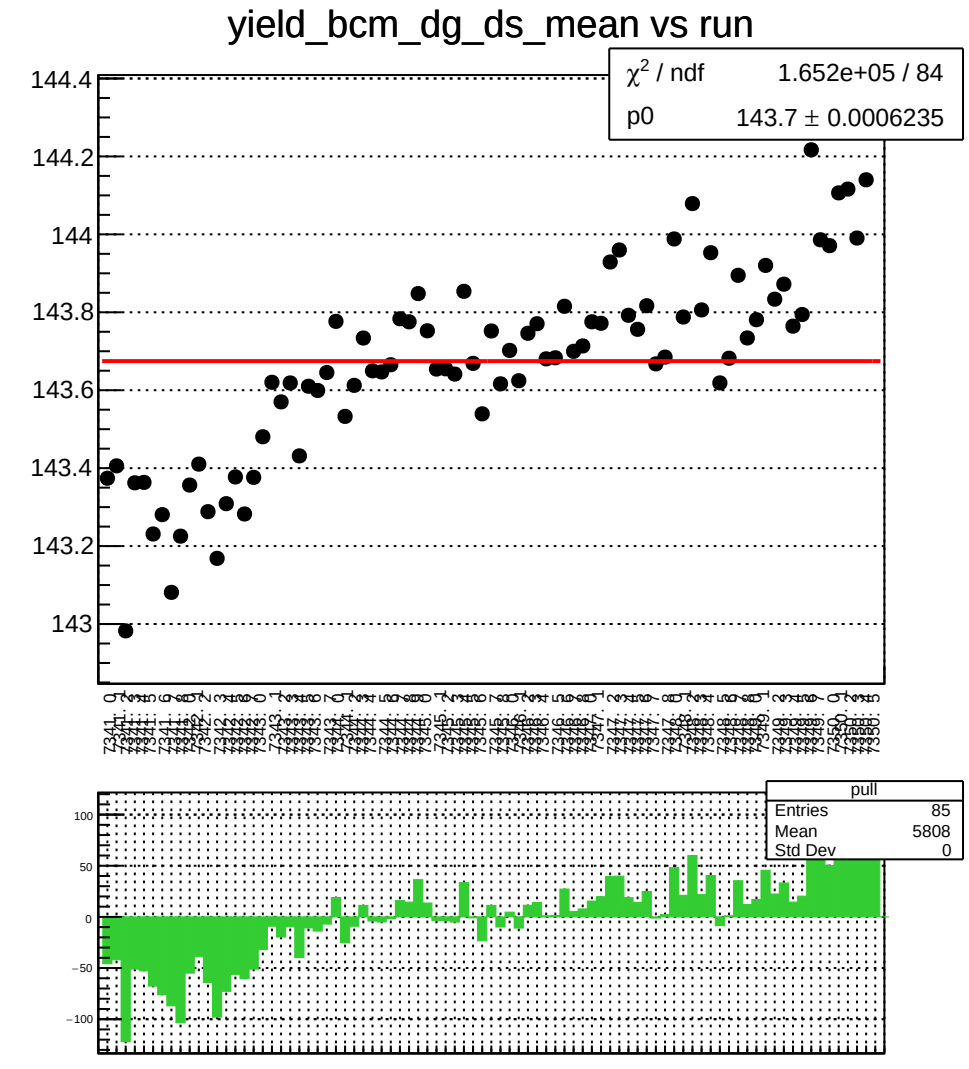

pull1D
Entries 85
Mean 2.096
Std Dev 3.455
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

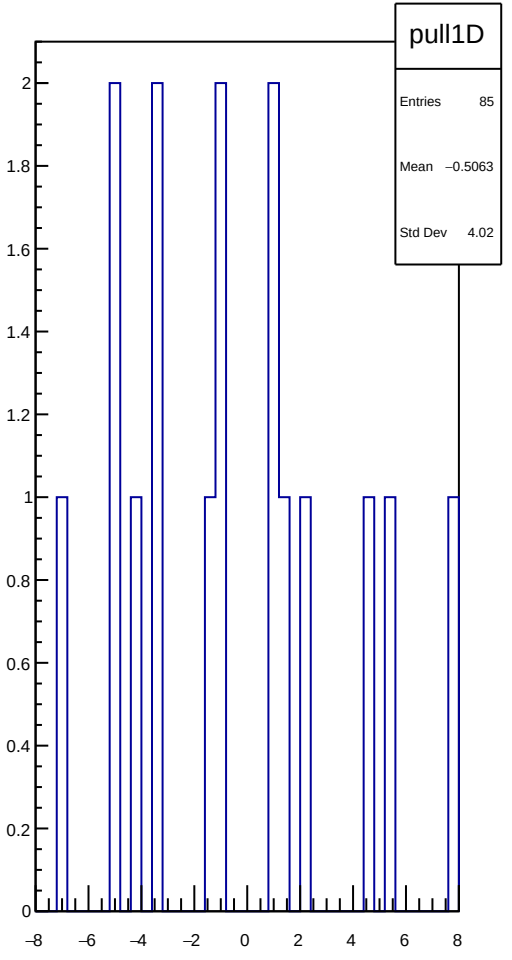

yield_bcm_an_us_rms vs run
χ² / ndf 1.677e+04 / 84
p0 0.5671 ± 0.0004484
0.7
0.65
0.6
0.55
0.5
0.45

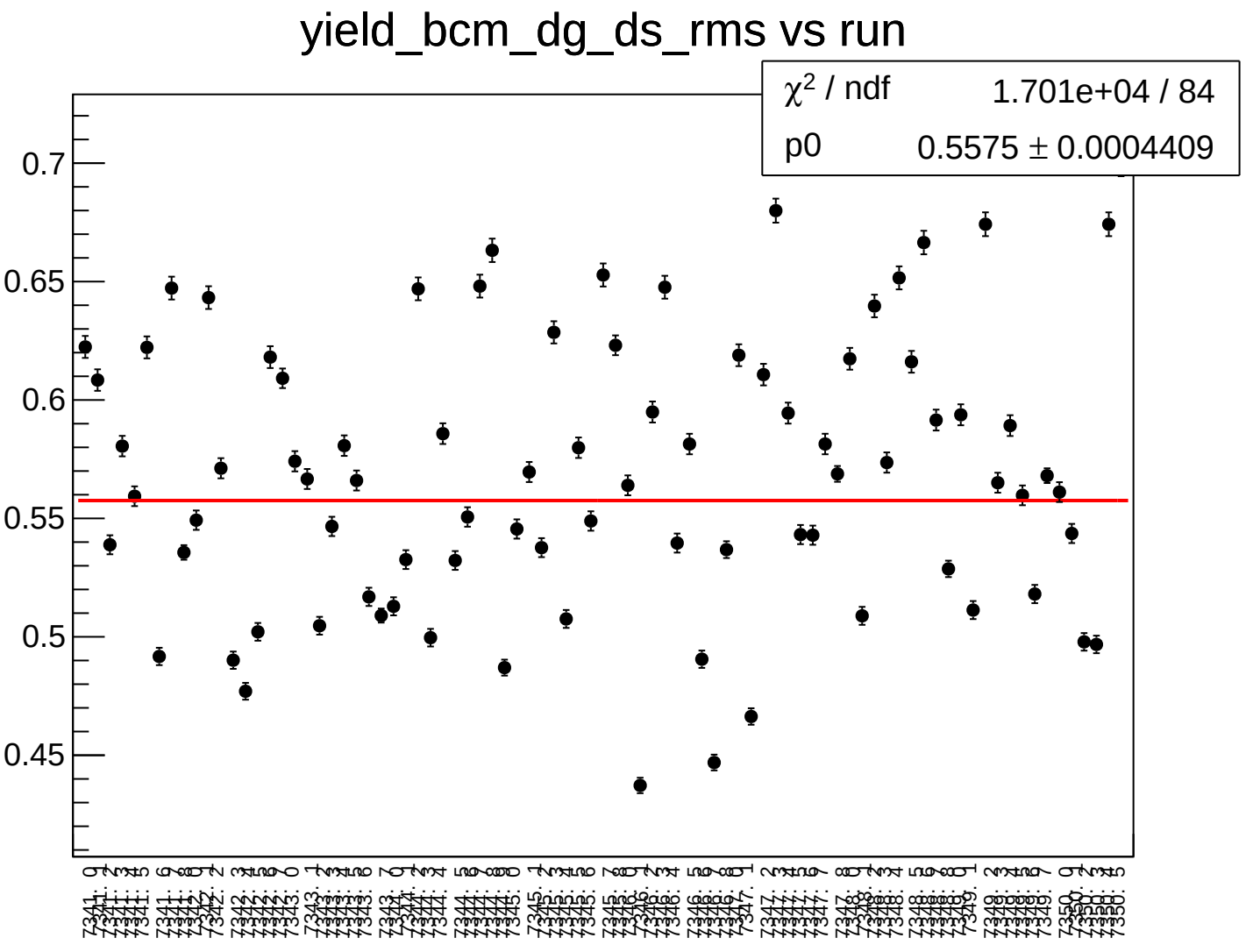

yield_bcm_dg_us_mean vs run
χ² / ndf 1.719e+05 / 84
p0 145 ± 0.0006184
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 85
Mean 1436
Std Dev 0
100
50
0
−50
−100

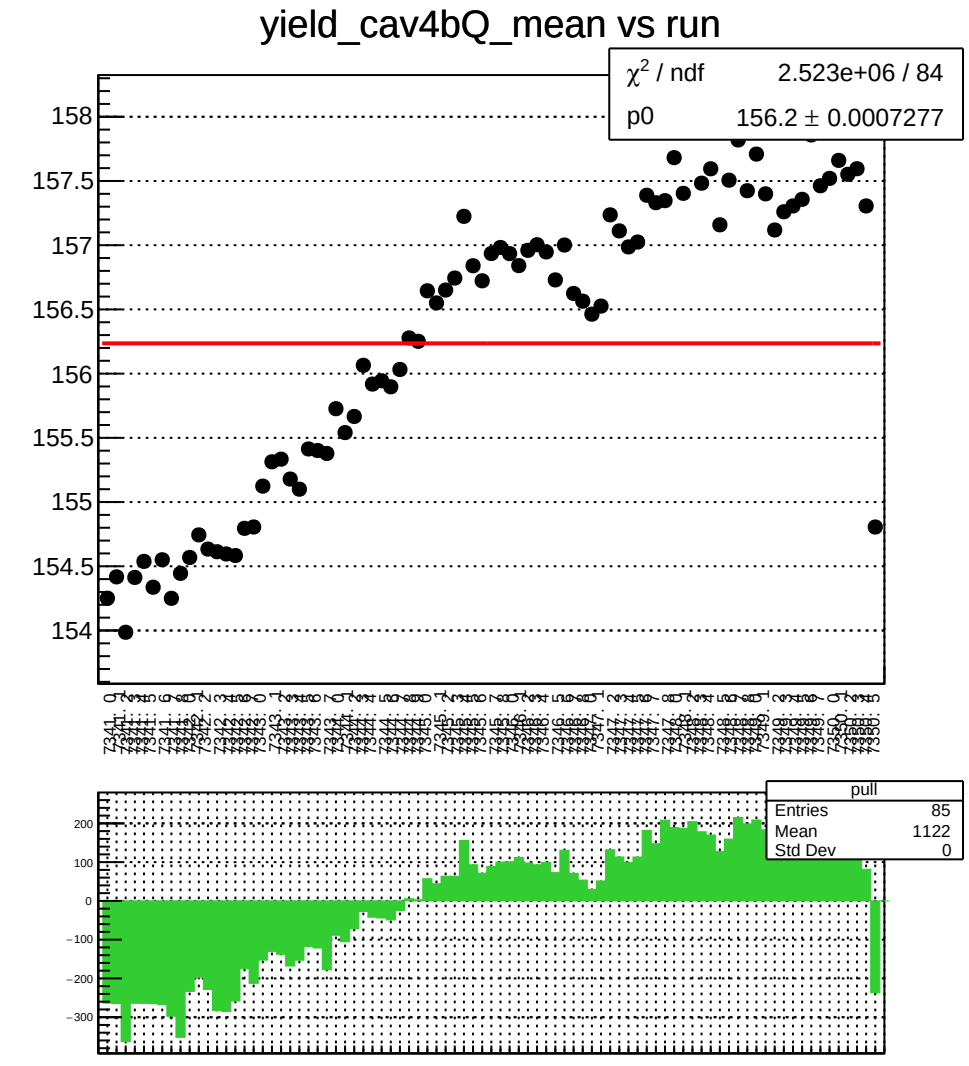

pull1D
Entries 85
Mean −1.616
Std Dev 4.421
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

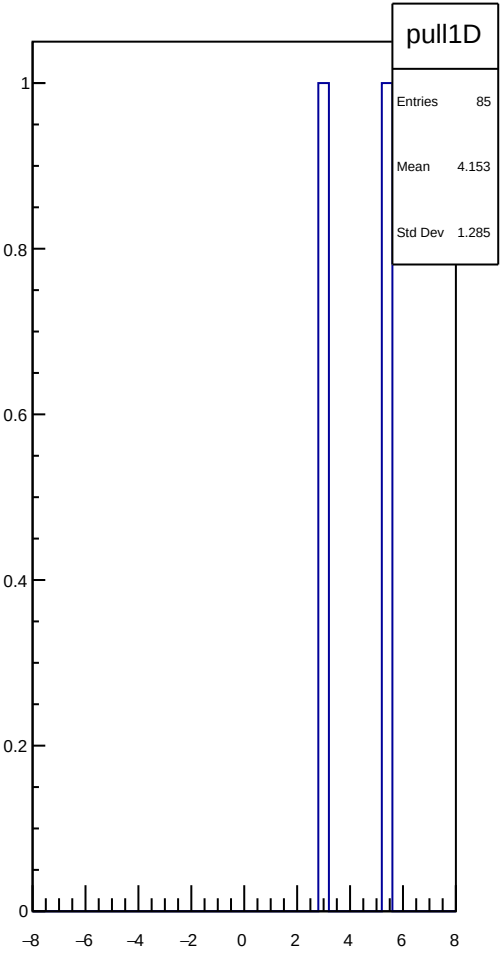

yield_bcm_dg_us_rms vs run
χ² / ndf 1.705e+04 / 84
p0 0.553 ± 0.0004373
0.7
0.65
0.6
0.55
0.5
0.45

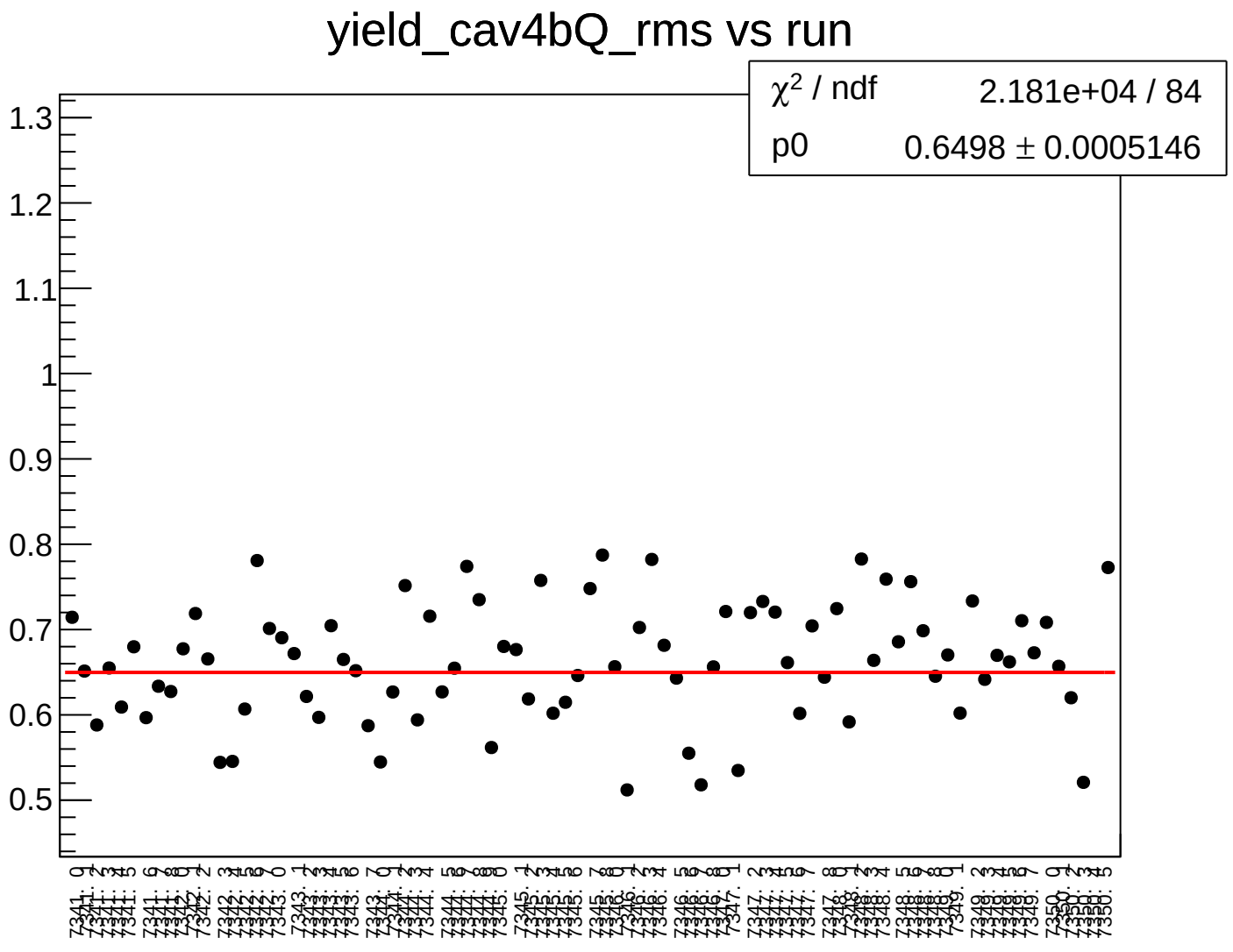

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.652e+05 / 84
p0 143.7 ± 0.0006235
144.4
144.2
144
143.8
143.6
143.4
143.2
143
pull
Entries 85
Mean 5808
Std Dev 0
100
50
0
−50
−100

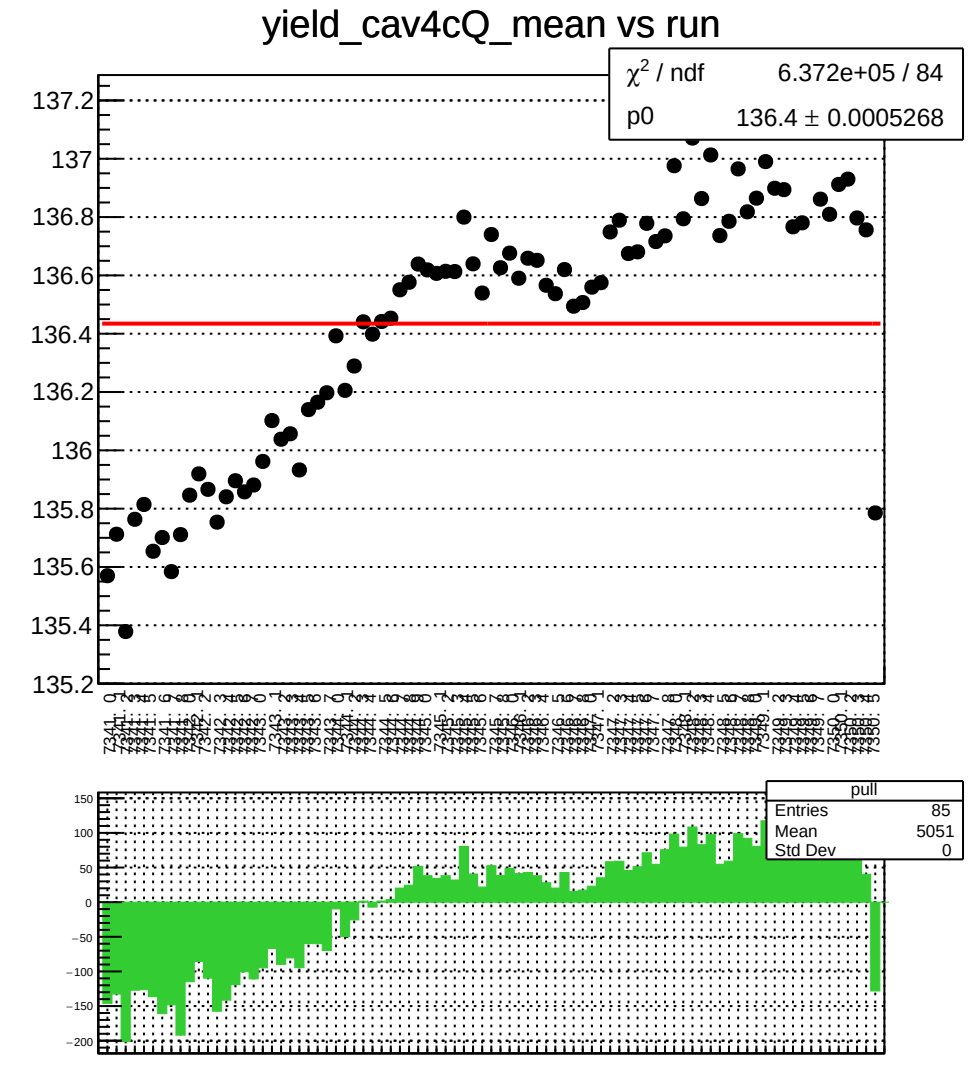

pull1D
Entries 85
Mean −0.5063
Std Dev 4.02
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

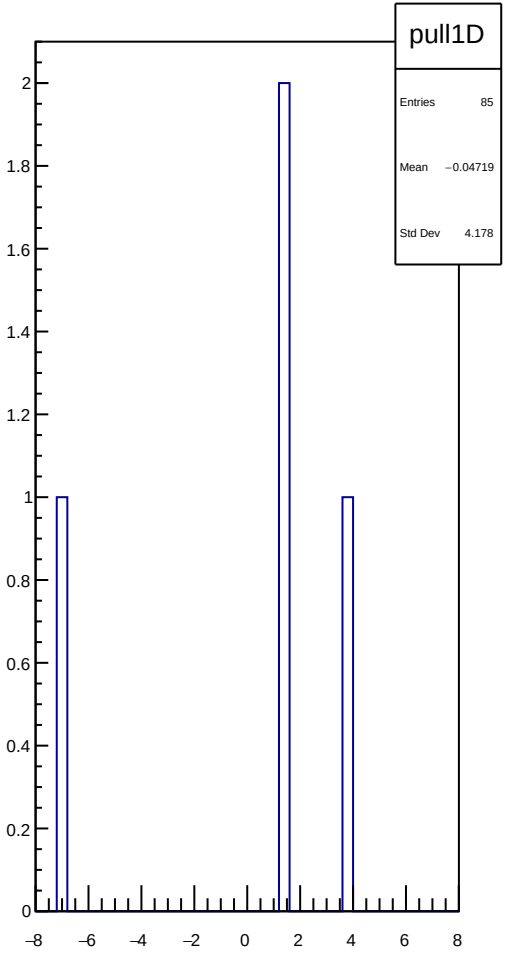

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.701e+04 / 84
p0 0.5575 ± 0.0004409
0.7
0.65
0.6
0.55
0.5
0.45

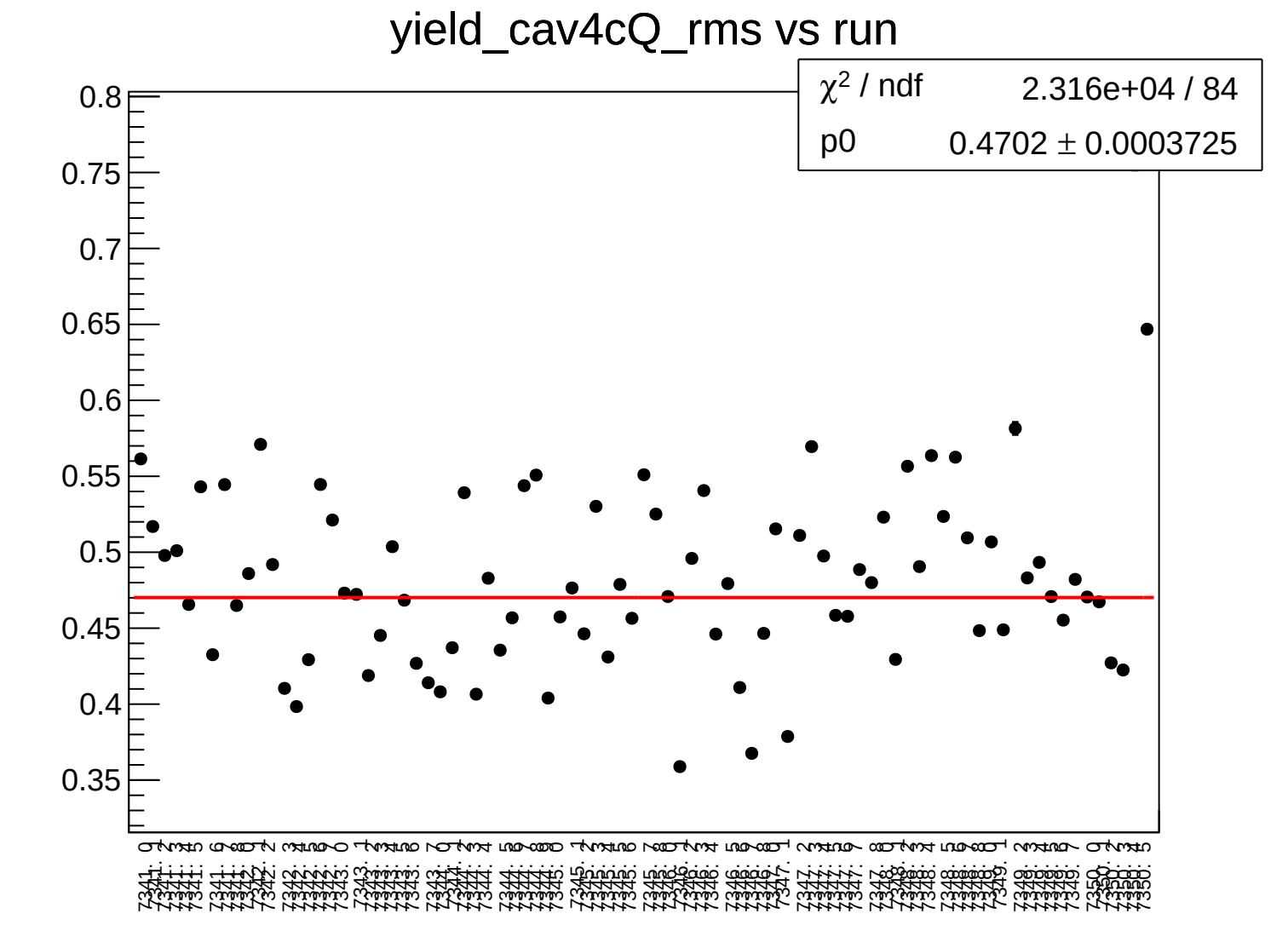

yield_cav4bQ_mean vs run
χ² / ndf 2.523e+06 / 84
p0 156.2 ± 0.0007277
158
157.5
157
156.5
156
155.5
155
154.5
154
pull
Entries 85
Mean 1122
Std Dev 0
200
100
0
−100
−200
−300

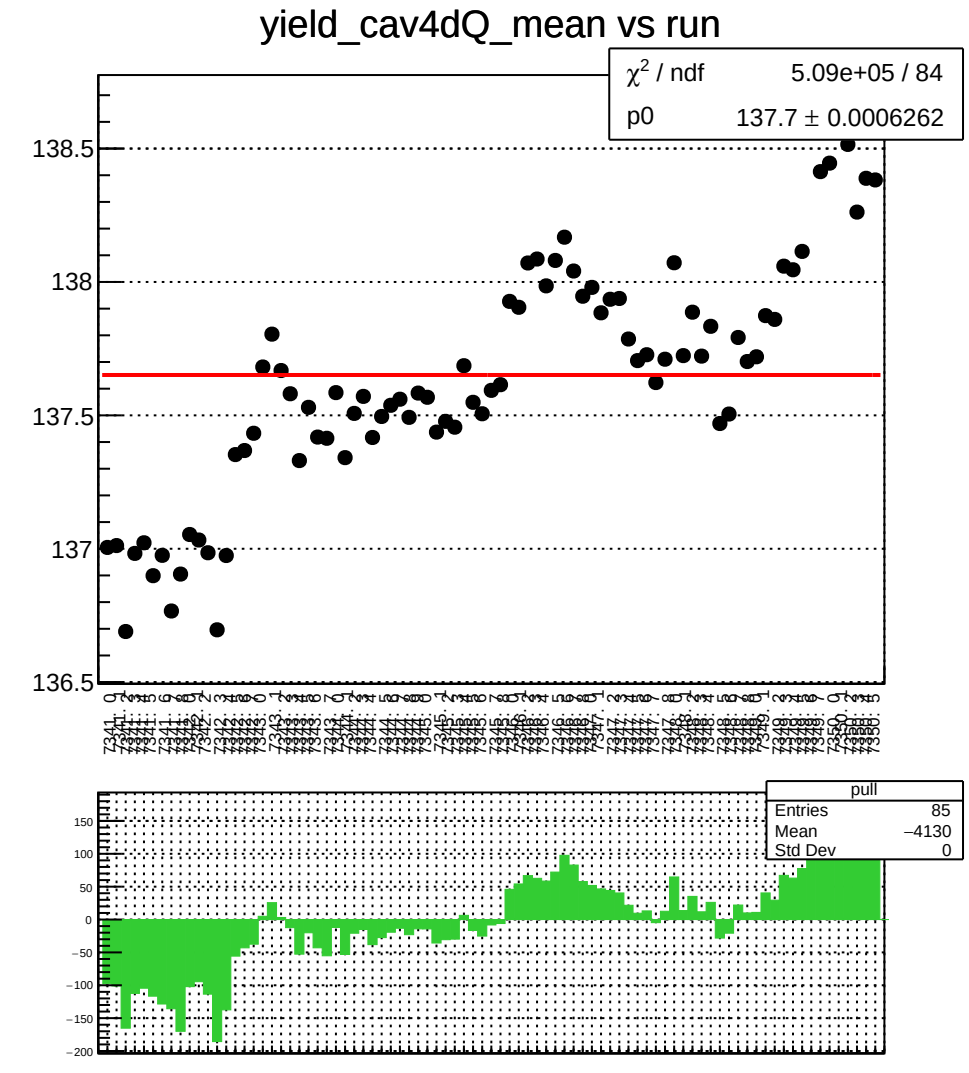

pull1D
Entries 85
Mean 4.153
Std Dev 1.285
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

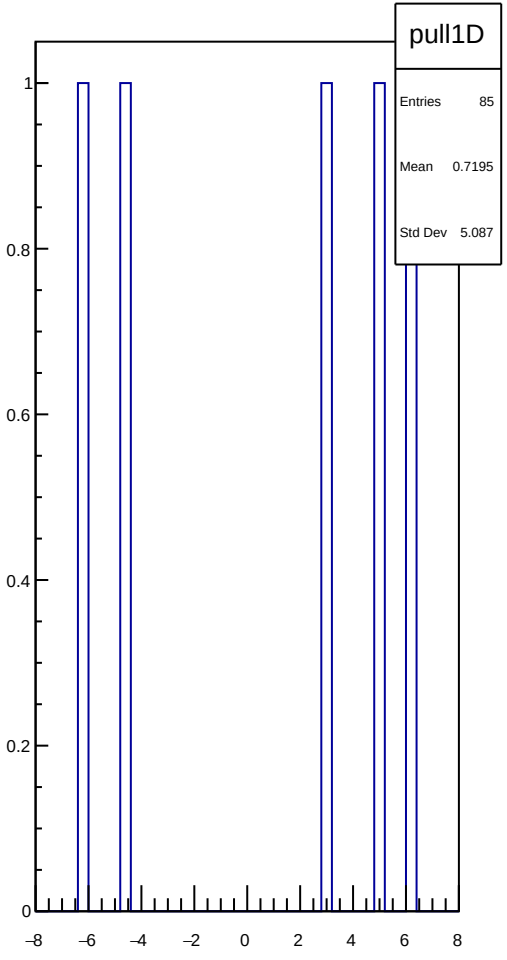

yield_cav4bQ_rms vs run
χ² / ndf 2.181e+04 / 84
p0 0.6498 ± 0.0005146
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5

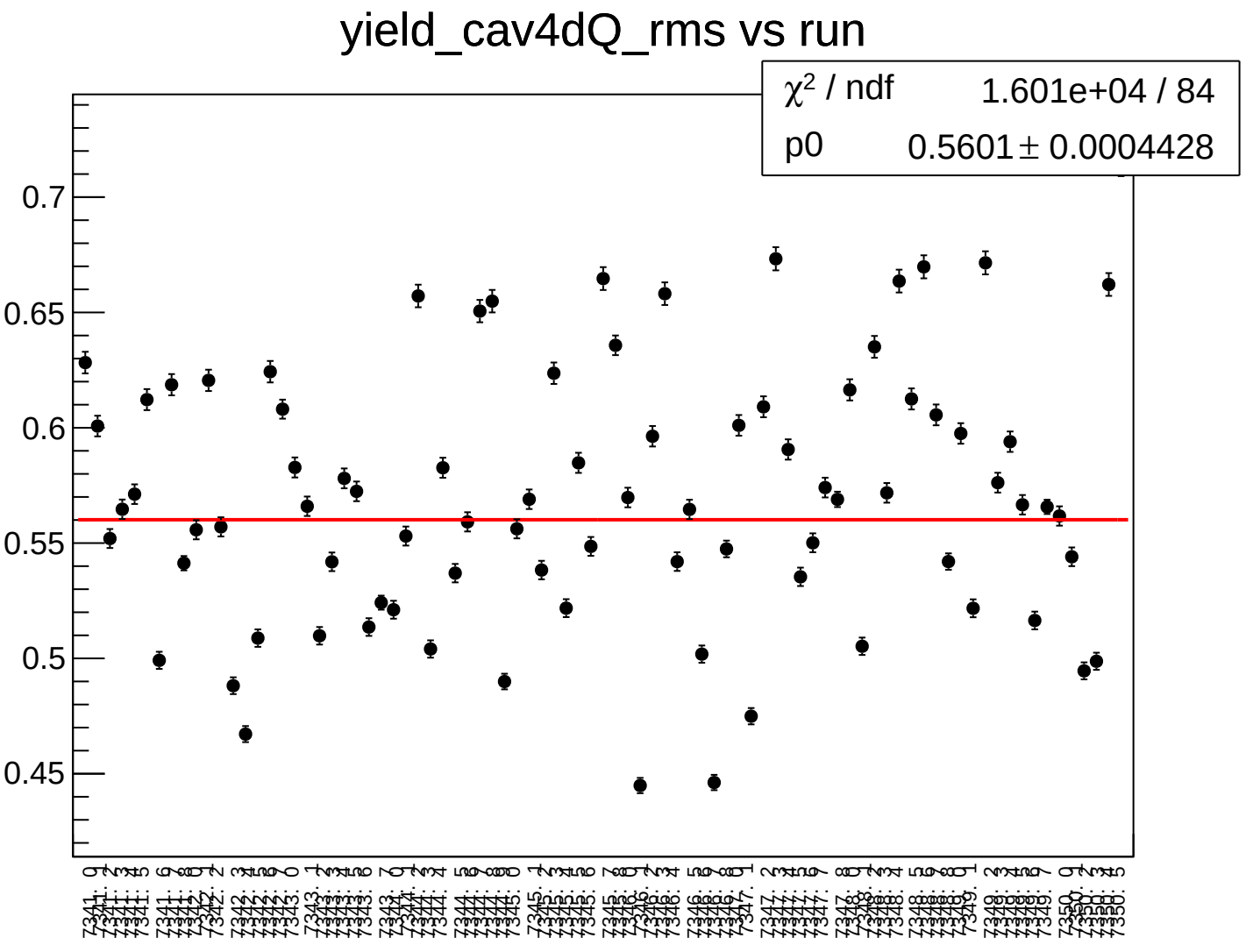

yield_cav4cQ_mean vs run
χ² / ndf 6.372e+05 / 84
p0 136.4 ± 0.0005268
137.2
137
136.8
136.6
136.4
136.2
136
135.8
135.6
135.4
135.2
pull
Entries 85
Mean 5051
Std Dev 0
150
100
50
0
−50
−100
−150
−200

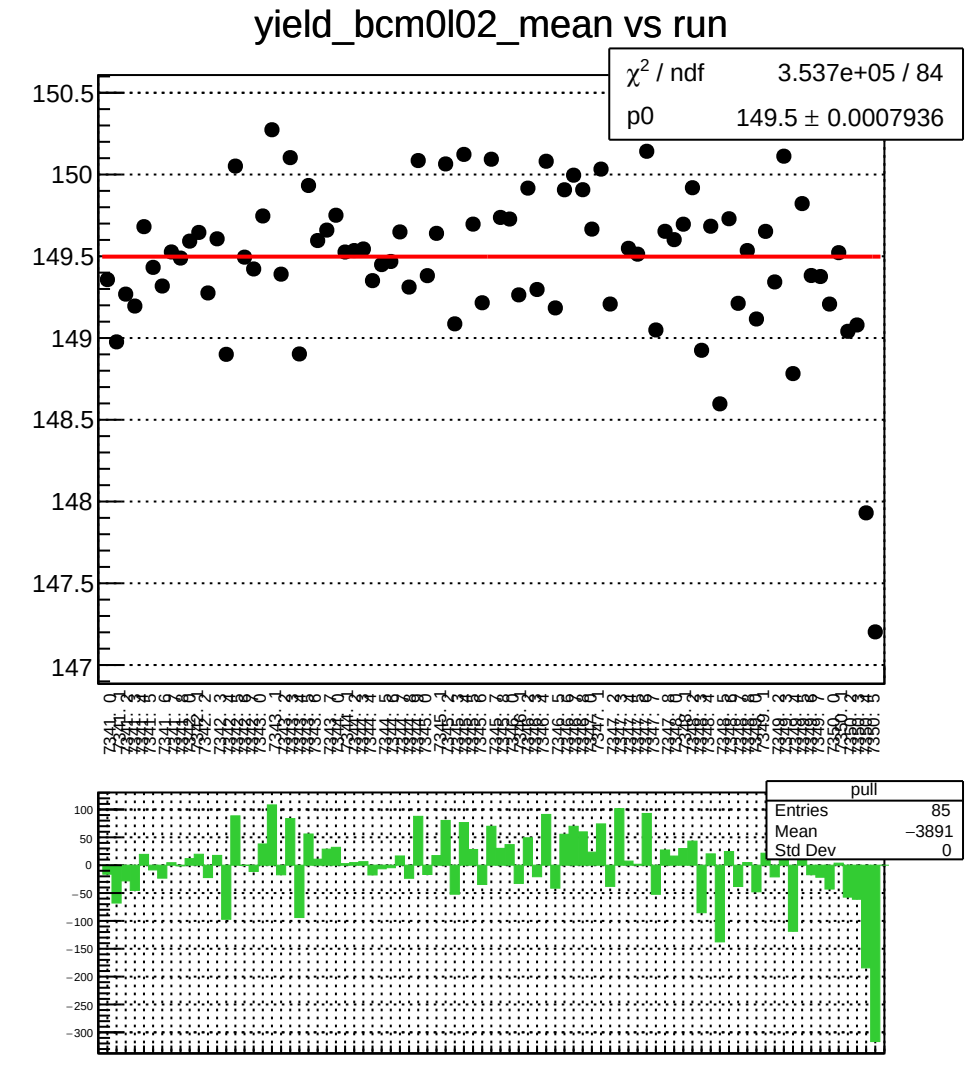

pull1D
Entries 85
Mean −0.04719
Std Dev 4.178
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

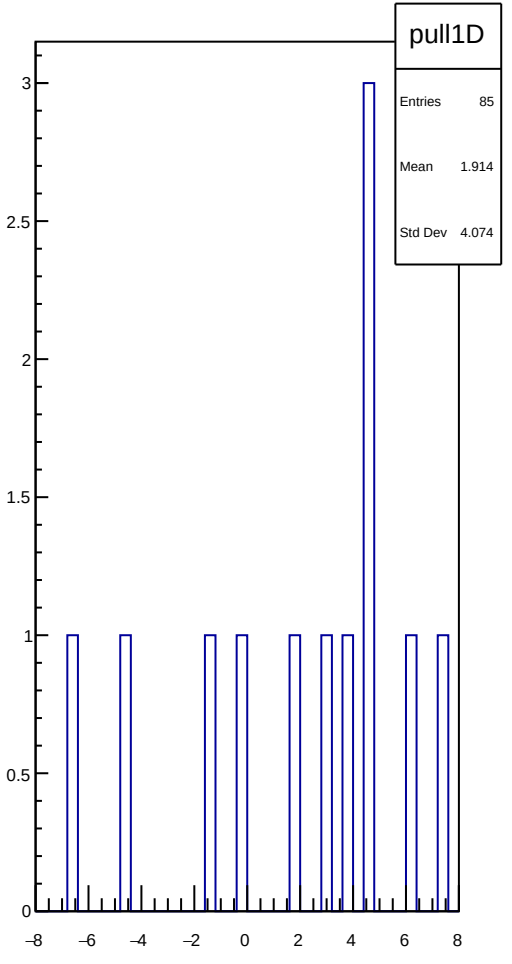

yield_cav4cQ_rms vs run
χ² / ndf 2.316e+04 / 84
p0 0.4702 ± 0.0003725
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

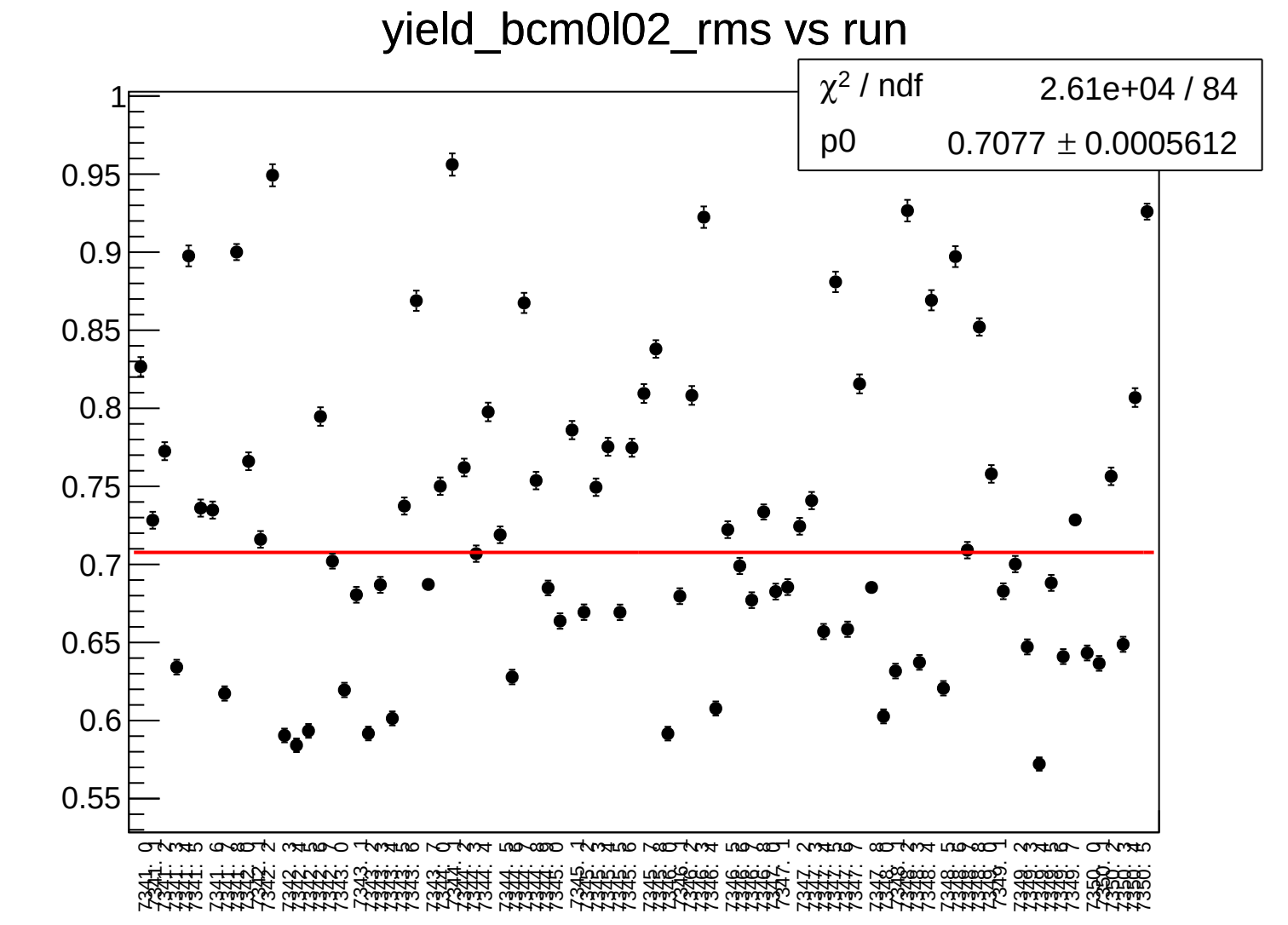

yield_cav4dQ_mean vs run
χ² / ndf 5.09e+05 / 84
p0 137.7 ± 0.0006262
138.5
138
137.5
137
136.5
pull
Entries 85
Mean −4130
Std Dev 0
150
100
50
0
−50
−100
−150
−200

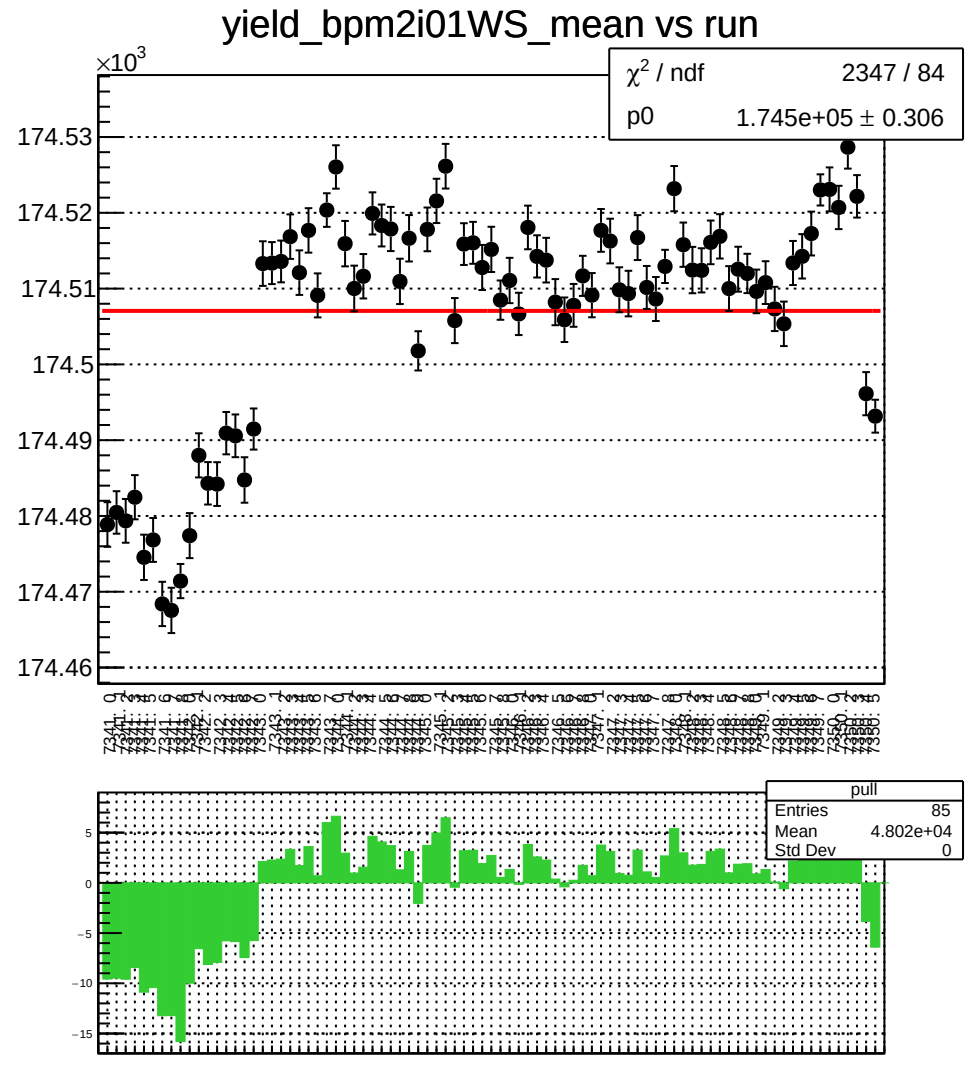

pull1D
Entries 85
Mean 0.7195
Std Dev 5.087
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

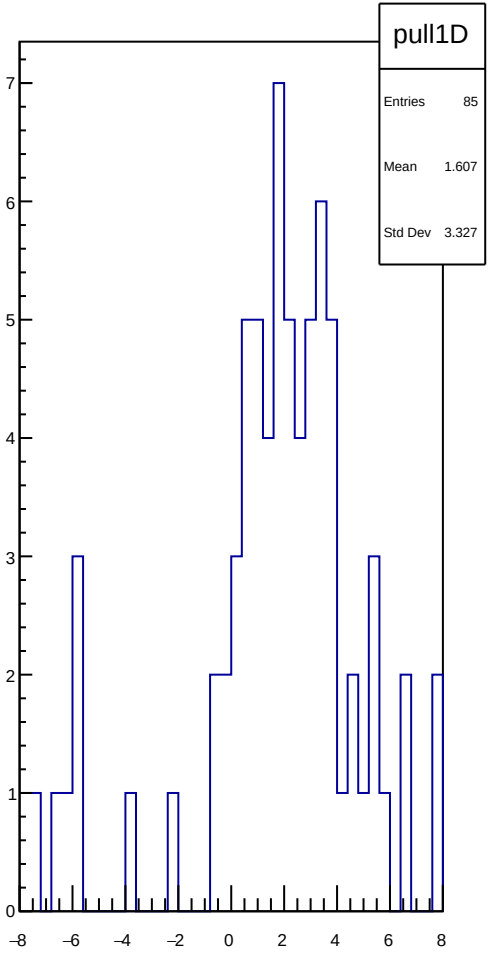

yield_cav4dQ_rms vs run
χ² / ndf 1.601e+04 / 84
p0 0.5601 ± 0.0004428
0.7
0.65
0.6
0.55
0.5
0.45

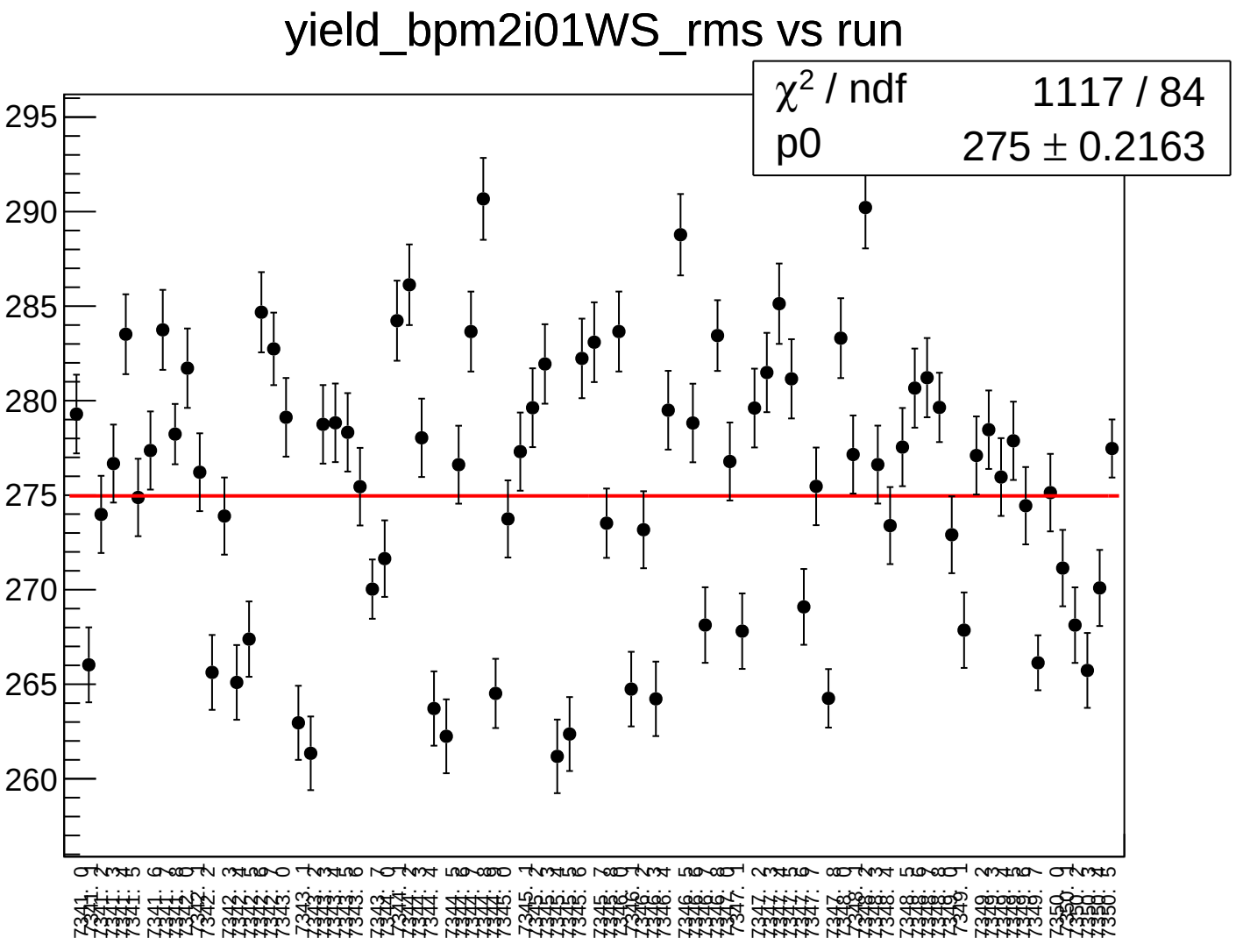

yield_bcm0l02_mean vs run
χ² / ndf 3.537e+05 / 84
p0 149.5 ± 0.0007936
150.5
150
149.5
149
148.5
148
147.5
147
pull
Entries 85
Mean −3891
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300

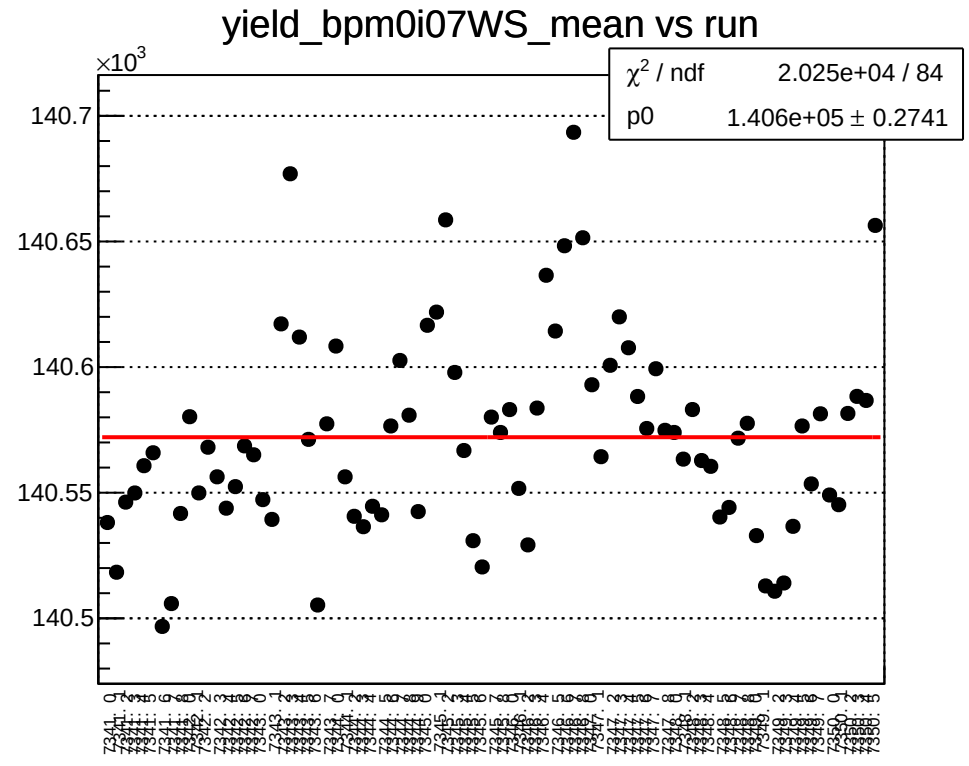

pull1D
Entries 85
Mean 1.914
Std Dev 4.074
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

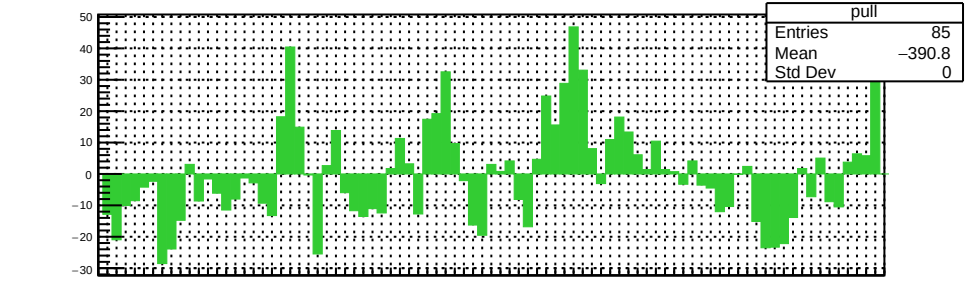

yield_bcm0l02_rms vs run
χ² / ndf 2.61e+04 / 84
p0 0.7077 ± 0.0005612
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55

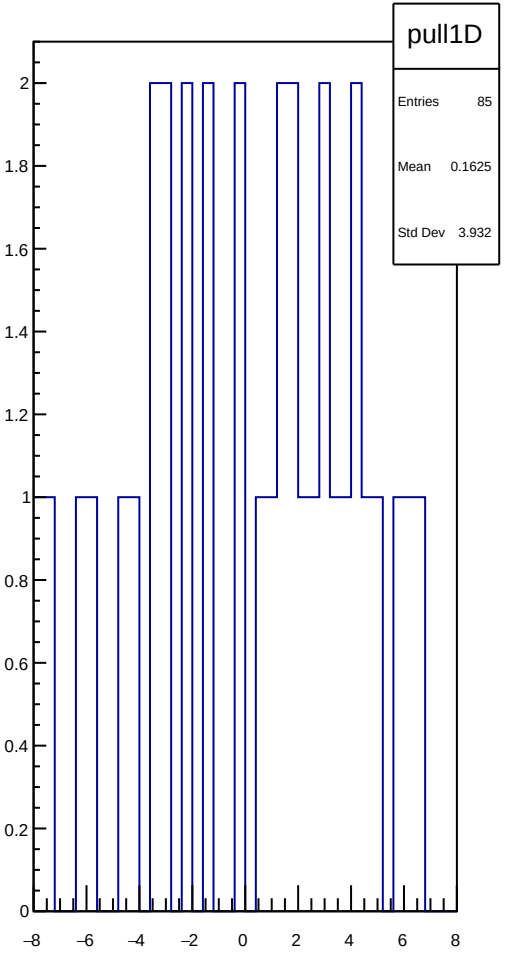

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2347 / 84
p0 1.745e+05 ± 0.306
174.53
174.52
174.51
174.5
174.49
174.48
174.47
174.46
pull
Entries 85
Mean 4.802e+04
Std Dev 0
5
0
−5
−10
−15

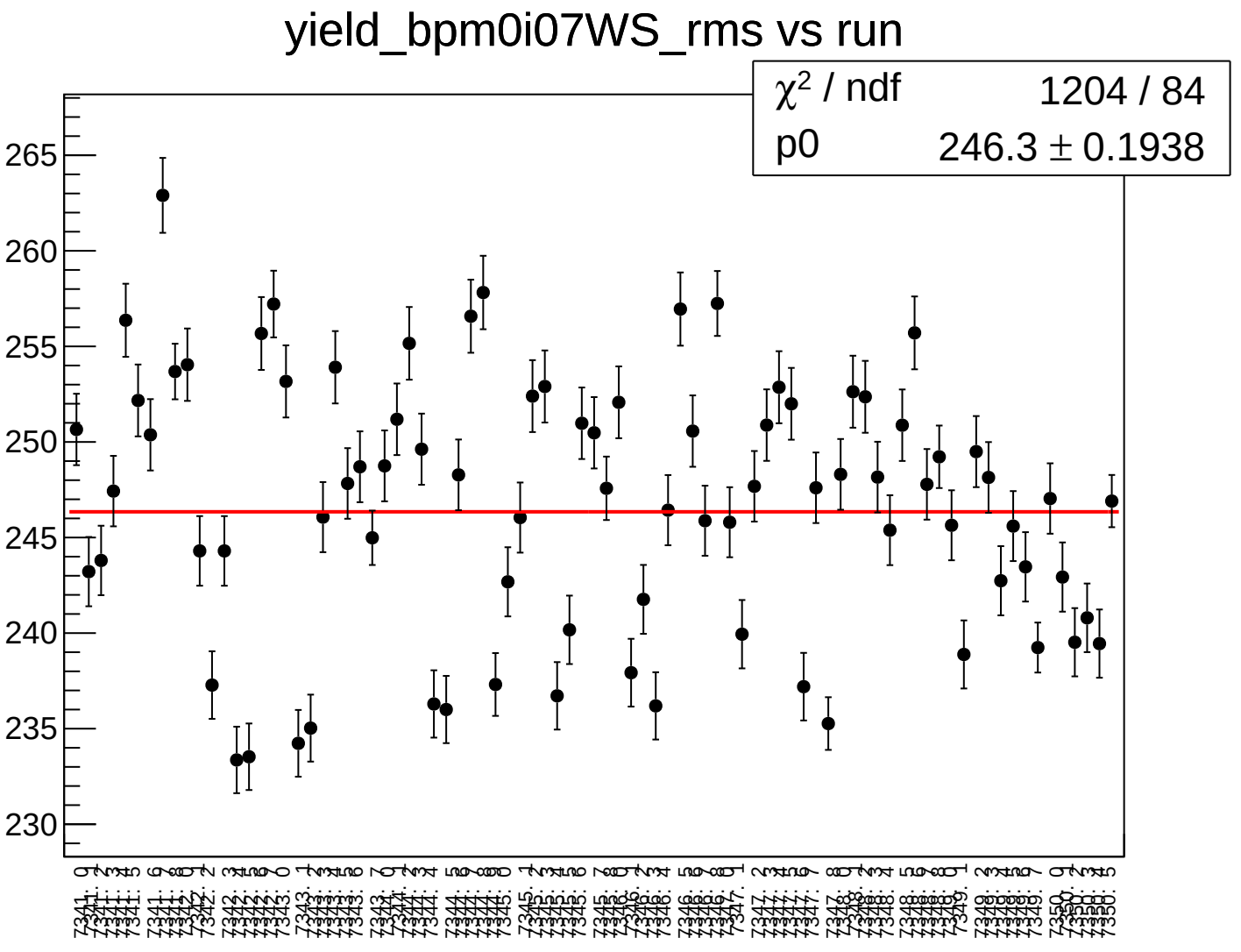

pull1D
Entries 85
Mean 1.607
Std Dev 3.327
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

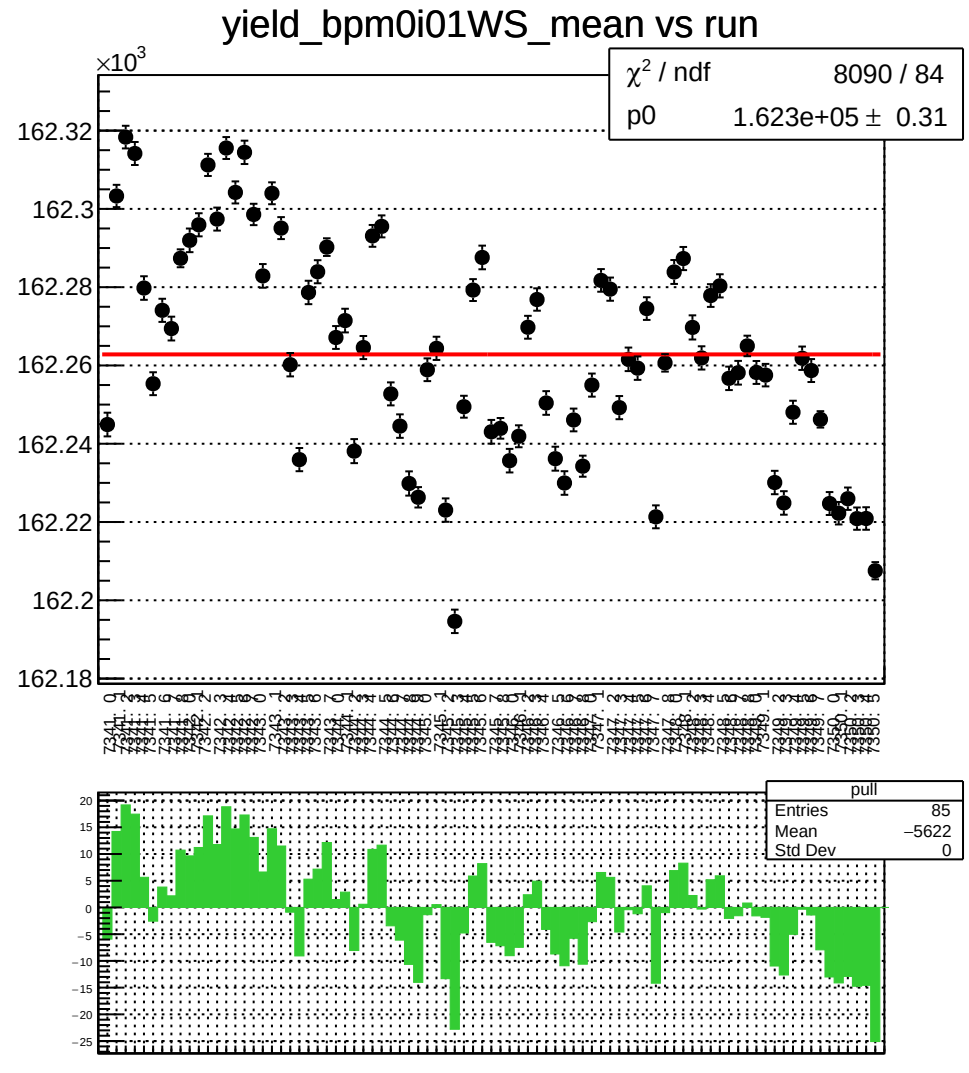

yield_bpm2i01WS_rms vs run
χ^2 / ndf 1117 / 84
p0 275 ± 0.2163
295
290
285
280
275
270
265
260

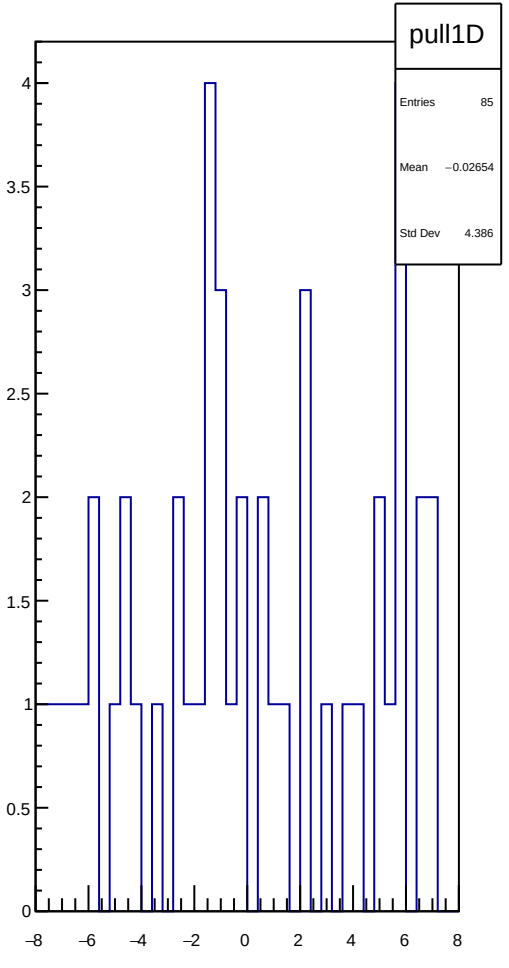

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.025e+04 / 84
p0 1.406e+05 ± 0.2741
140.7
140.65
140.6
140.55
140.5

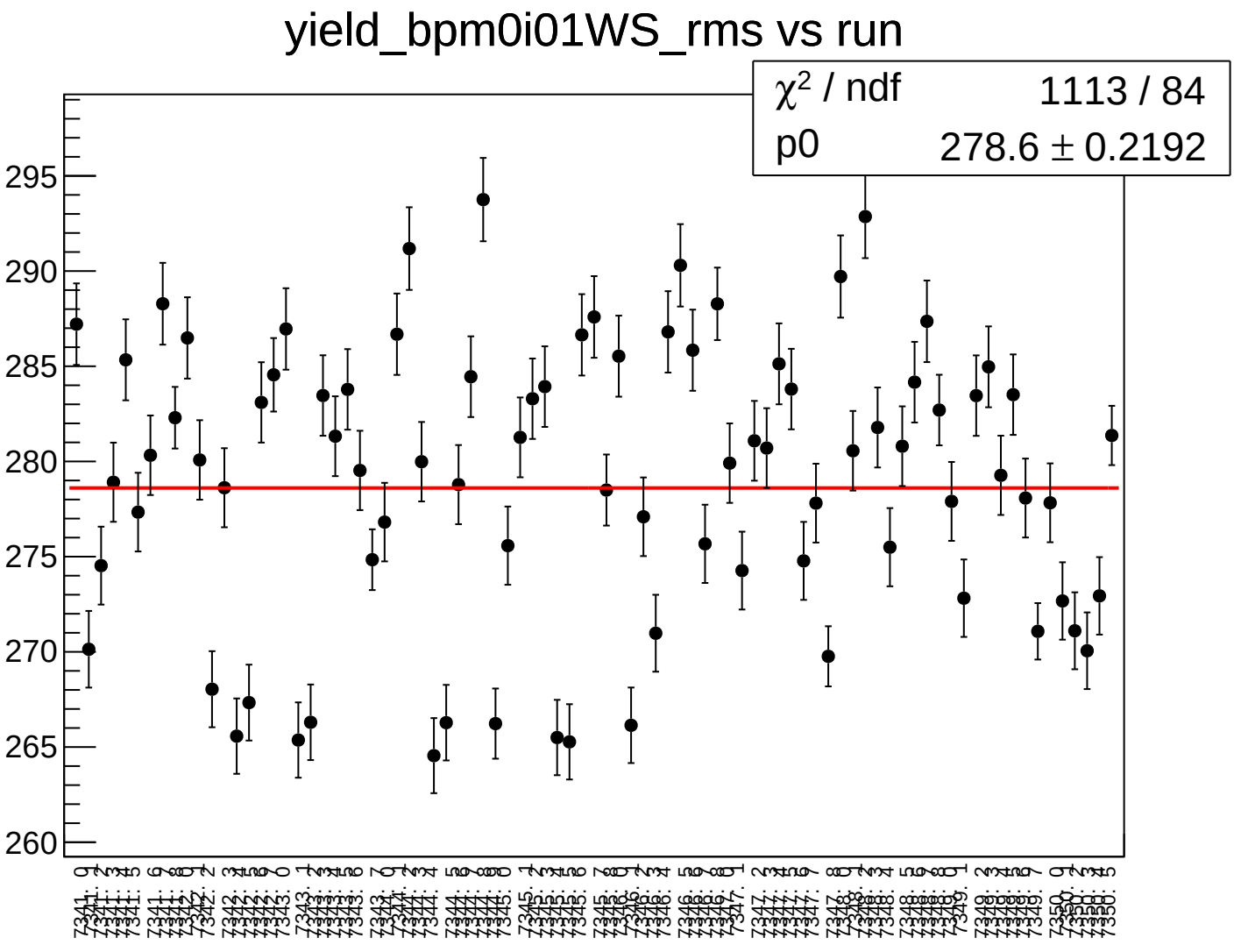

pull
Entries 85
Mean −390.8
Std Dev 0
50
40
30
20
10
0
−10
−20
−30

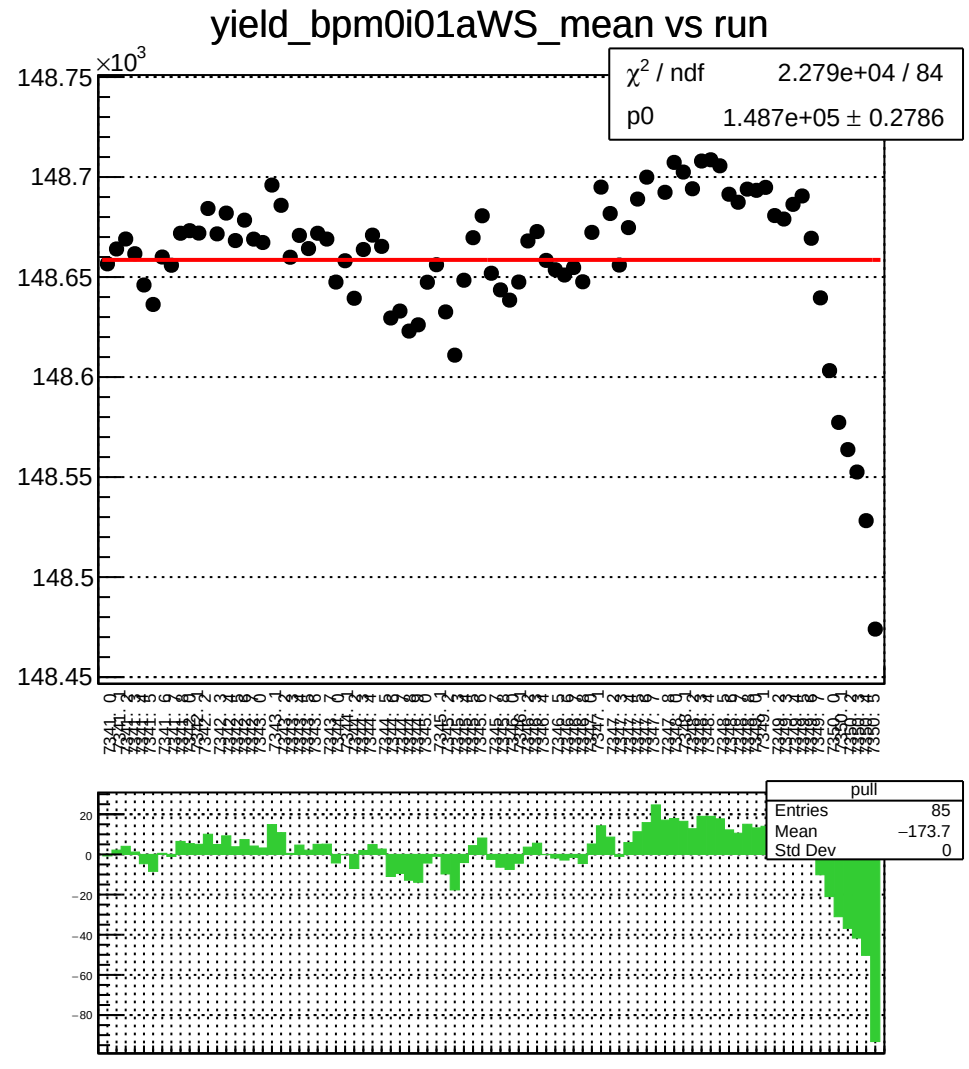

pull1D
Entries 85
Mean 0.1625
Std Dev 3.932
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

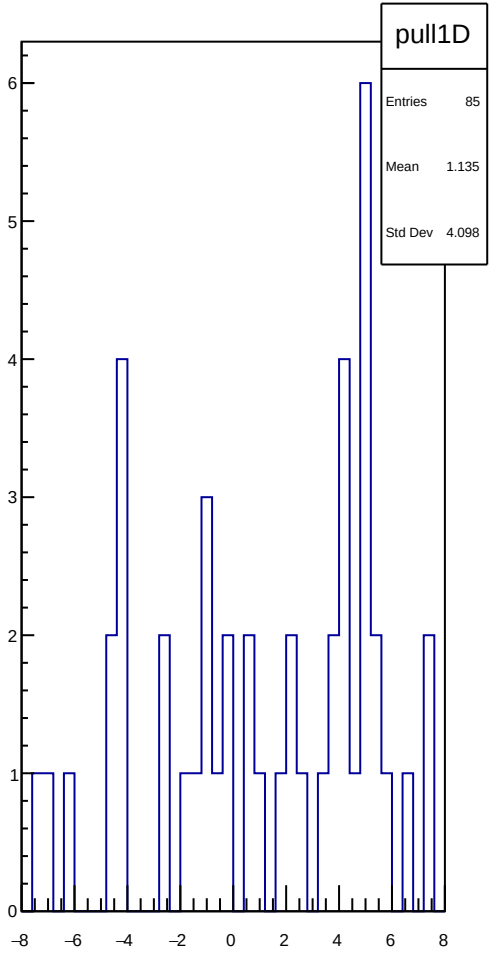

yield_bpm0i07WS_rms vs run
χ² / ndf 1204 / 84
p0 246.3 ± 0.1938
265
260
255
250
245
240
235
230

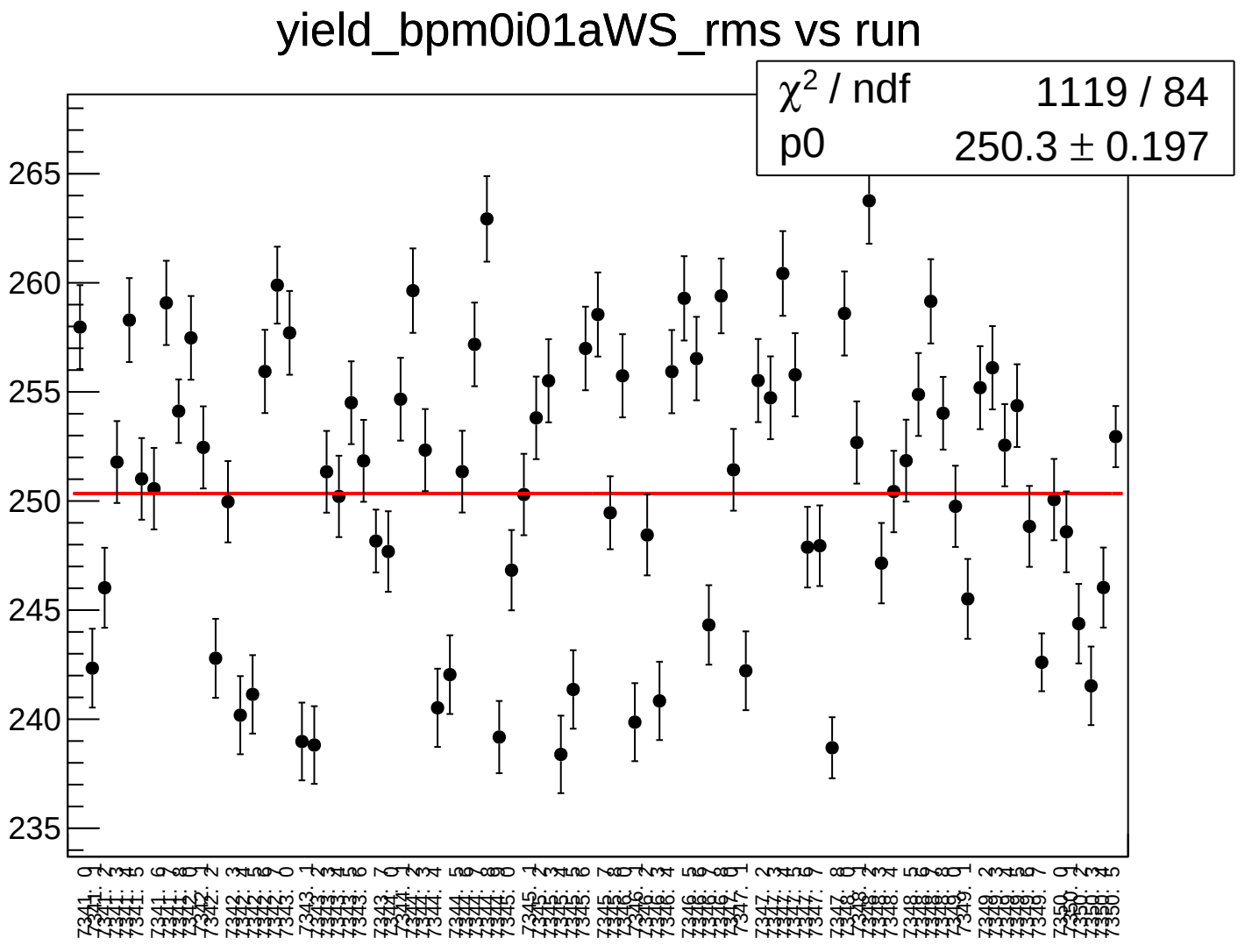

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 8090 / 84
p0 1.623e+05 ± 0.31
162.32
162.3
162.28
162.26
162.24
162.22
162.2
162.18
pull
Entries 85
Mean −5622
Std Dev 0
20
15
10
5
0
−5
−10
−15
−20
−25

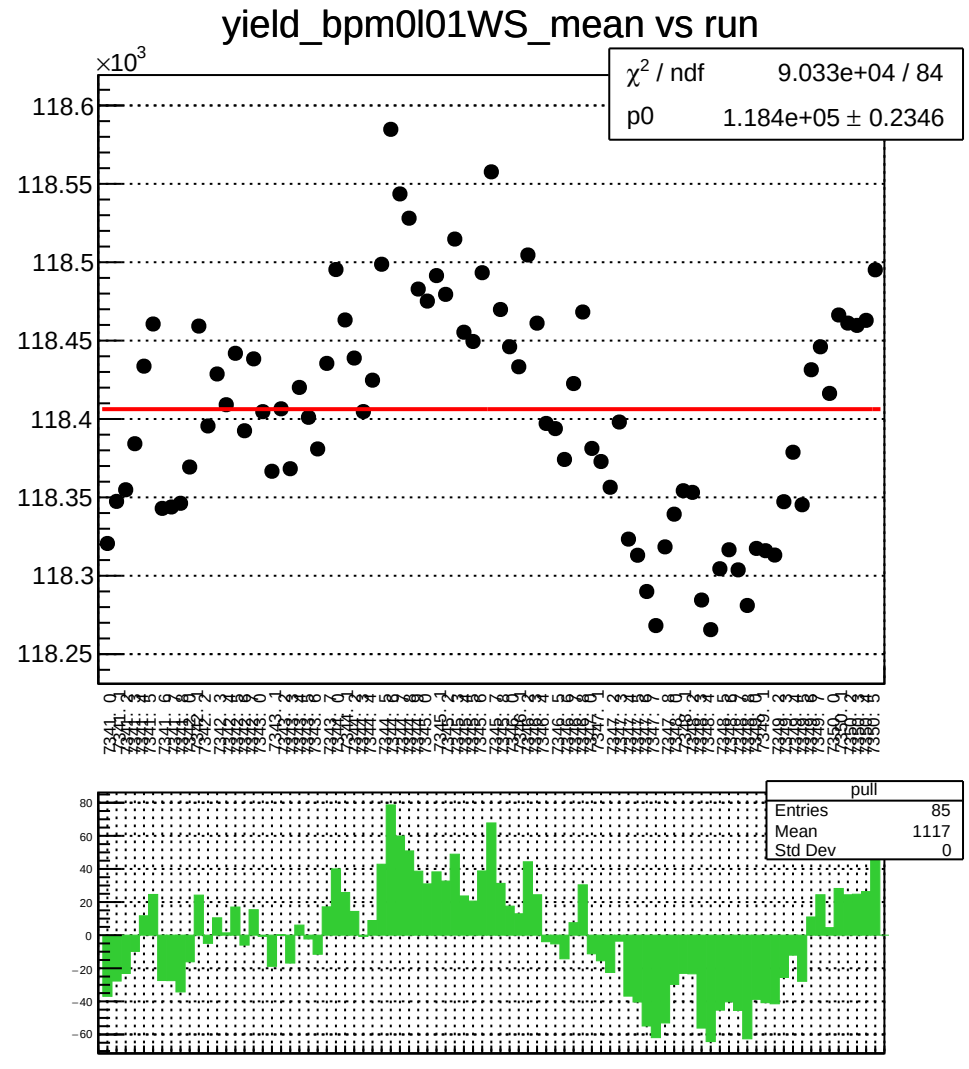

pull1D
Entries 85
Mean −0.02654
Std Dev 4.386
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

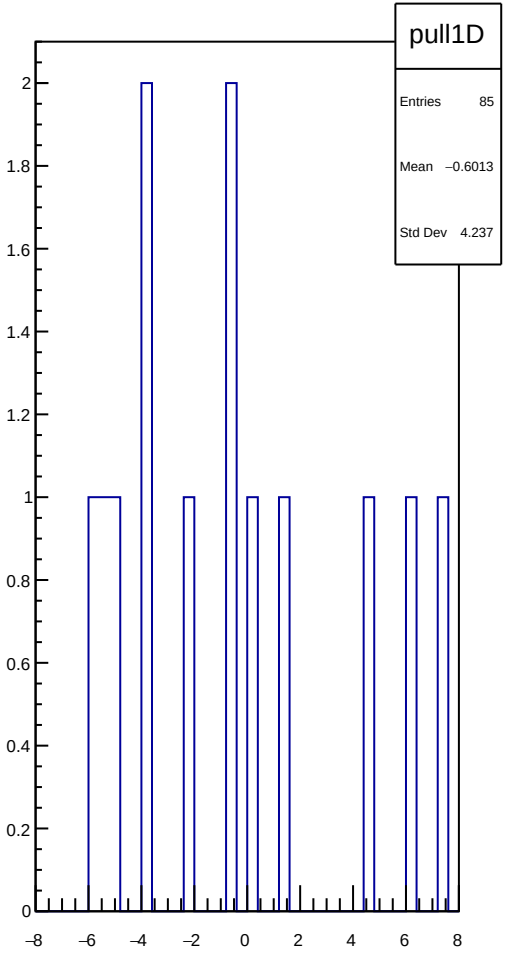

yield_bpm0i01WS_rms vs run
χ² / ndf 1113 / 84
p0 278.6 ± 0.2192
295
290
285
280
275
270
265
260

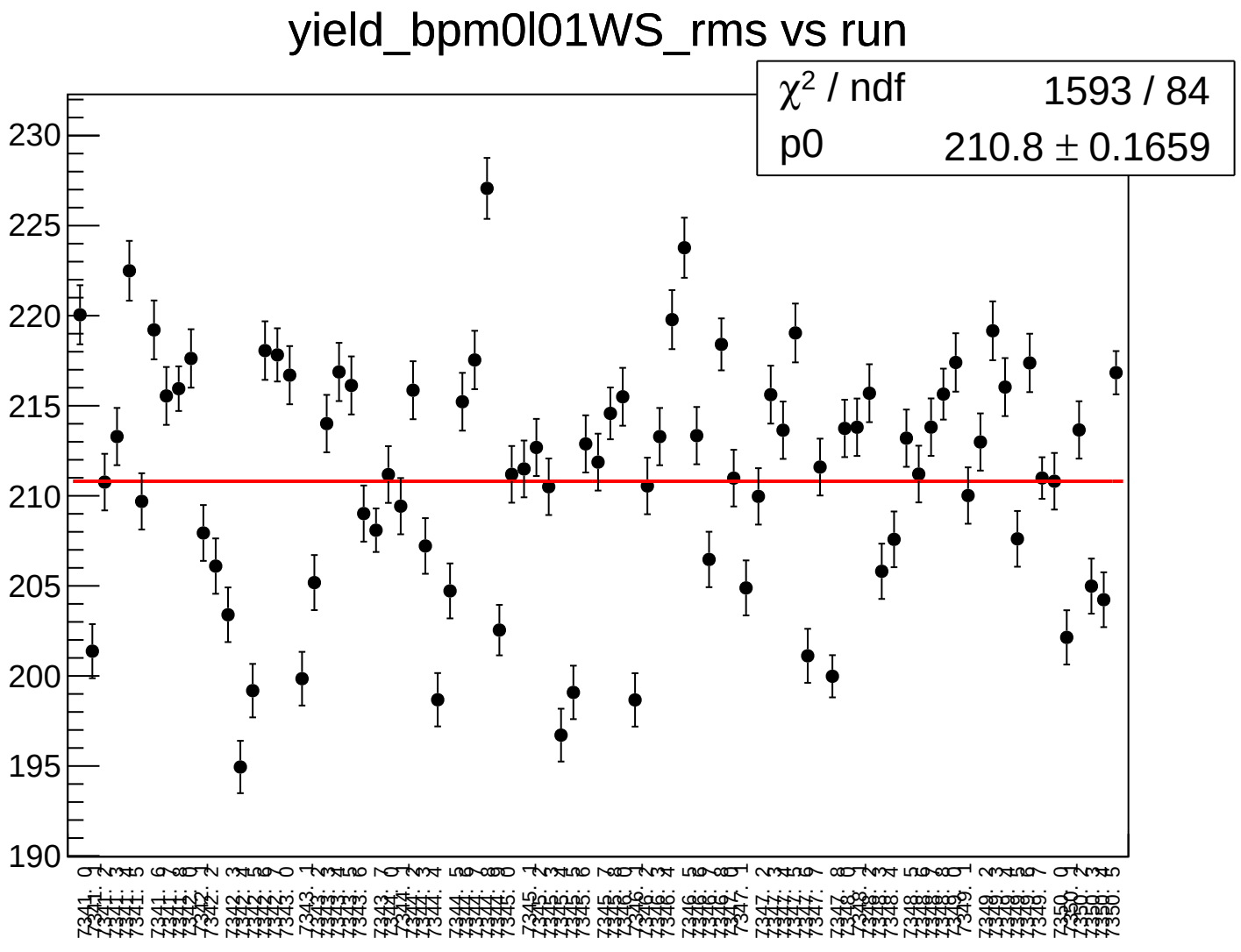

yield_bpm0i01aWS_mean vs run
×10^3
148.75
148.7
148.65
148.6
148.55
148.5
148.45
χ² / ndf 2.279e+04 / 84
p0 1.487e+05 ± 0.2786
pull
Entries 85
Mean −173.7
Std Dev 0
20
0
−20
−40
−60
−80

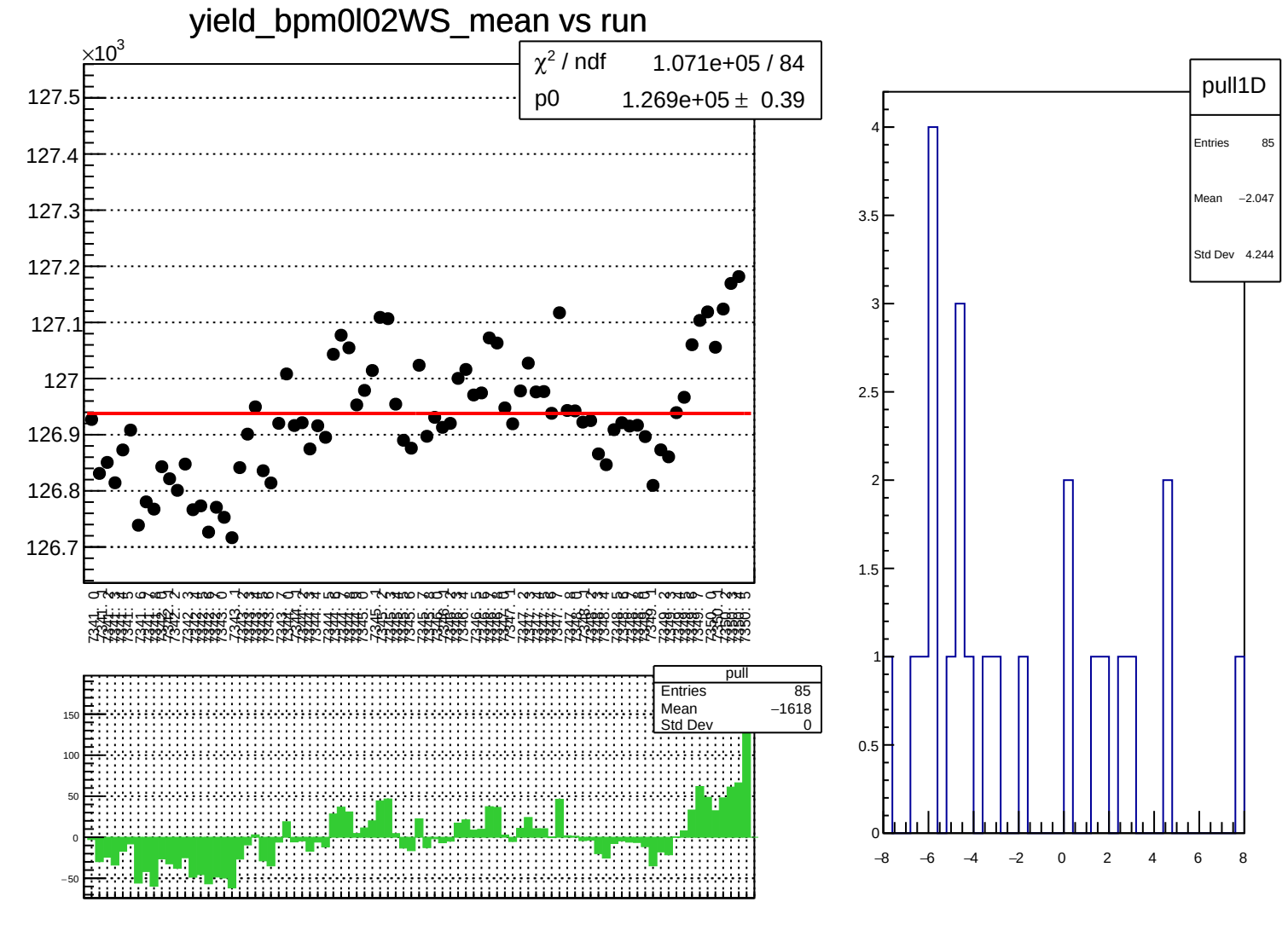

pull1D
Entries 85
Mean 1.135
Std Dev 4.098
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

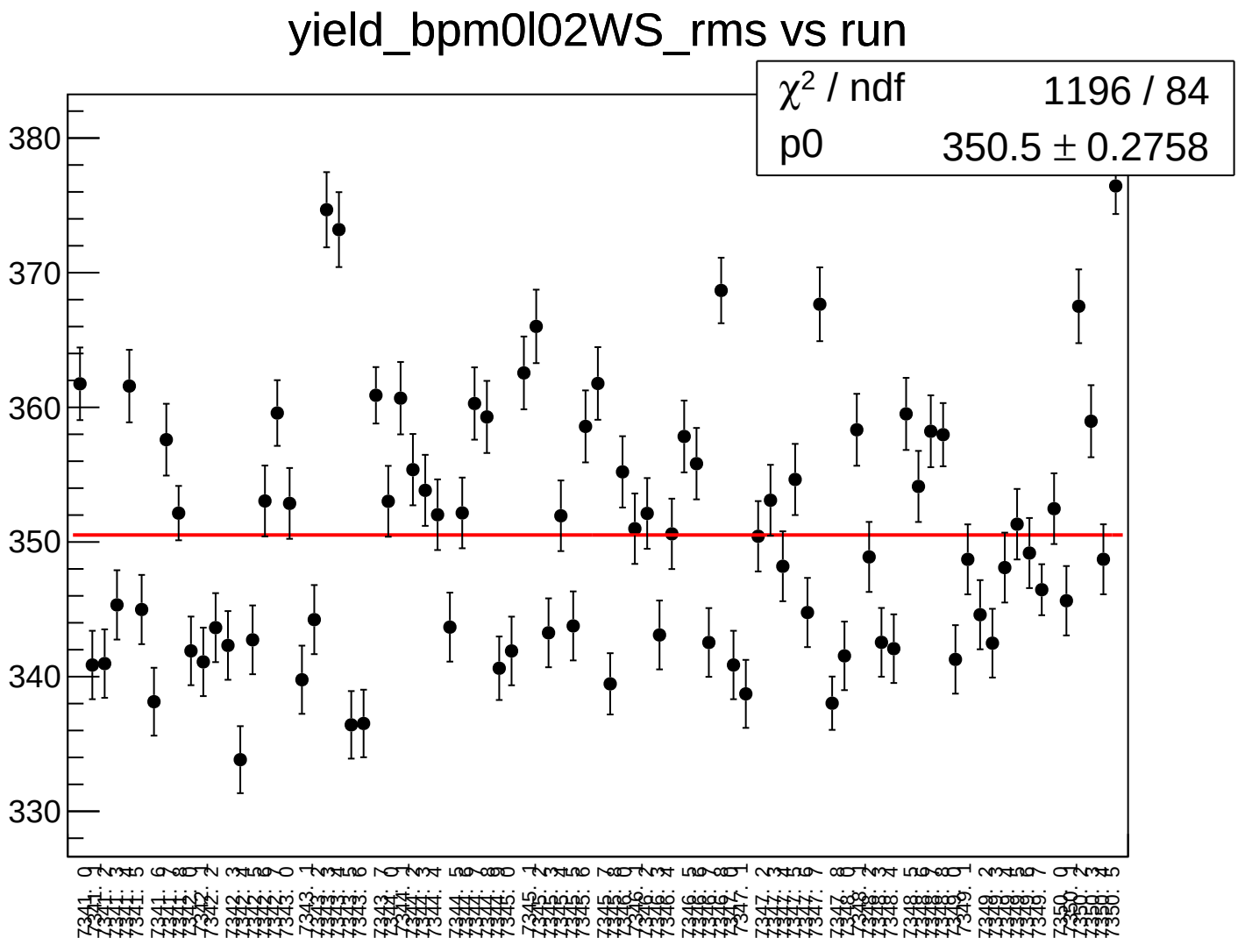

yield_bpm0i01aWS_rms vs run
χ² / ndf 1119 / 84
p0 250.3 ± 0.197
265
260
255
250
245
240
235

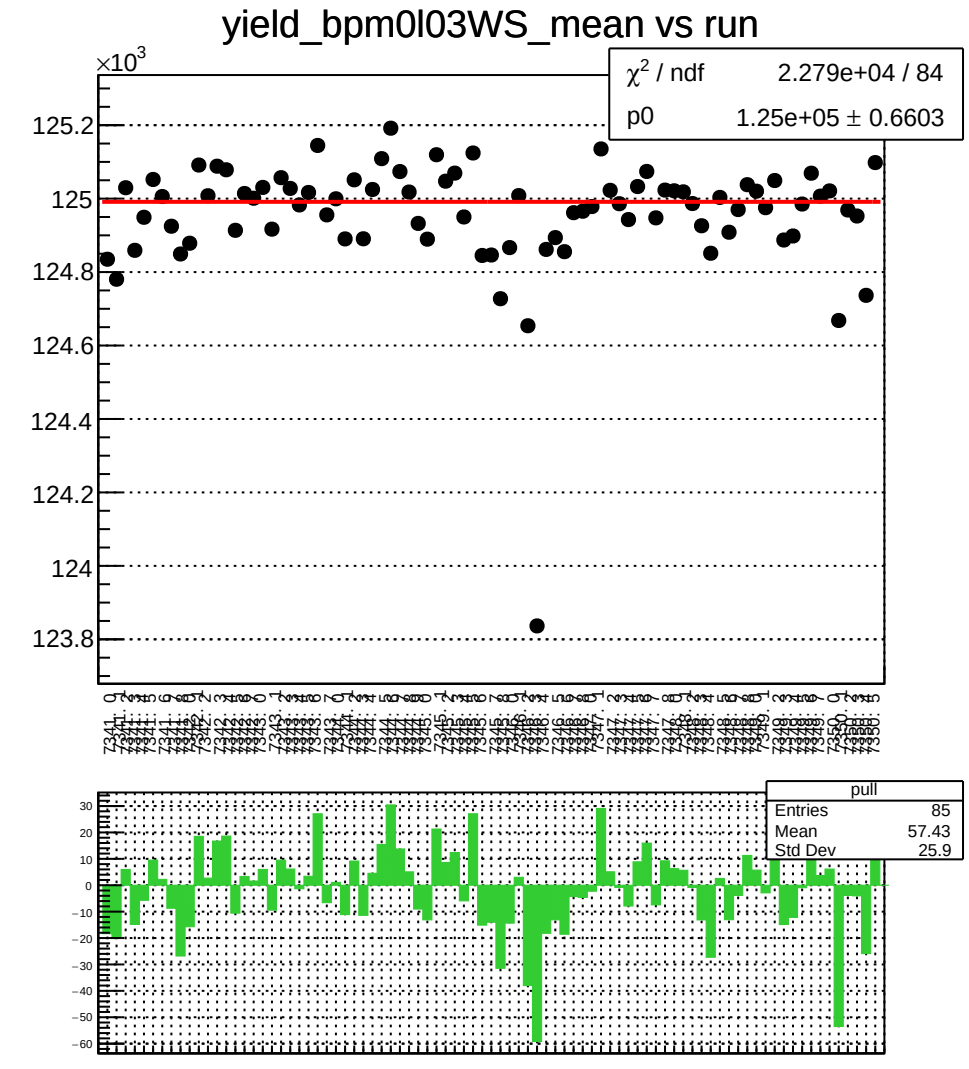

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 9.033e+04 / 84
p0 1.184e+05 ± 0.2346
118.6
118.55
118.5
118.45
118.4
118.35
118.3
118.25
pull
Entries 85
Mean 1117
Std Dev 0
80
60
40
20
0
−20
−40
−60

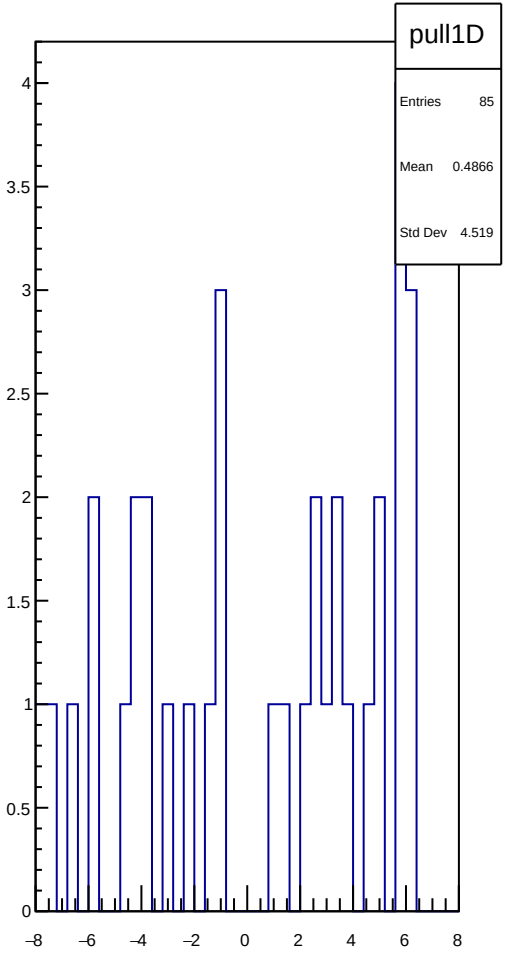

pull1D
Entries 85
Mean −0.6013
Std Dev 4.237
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

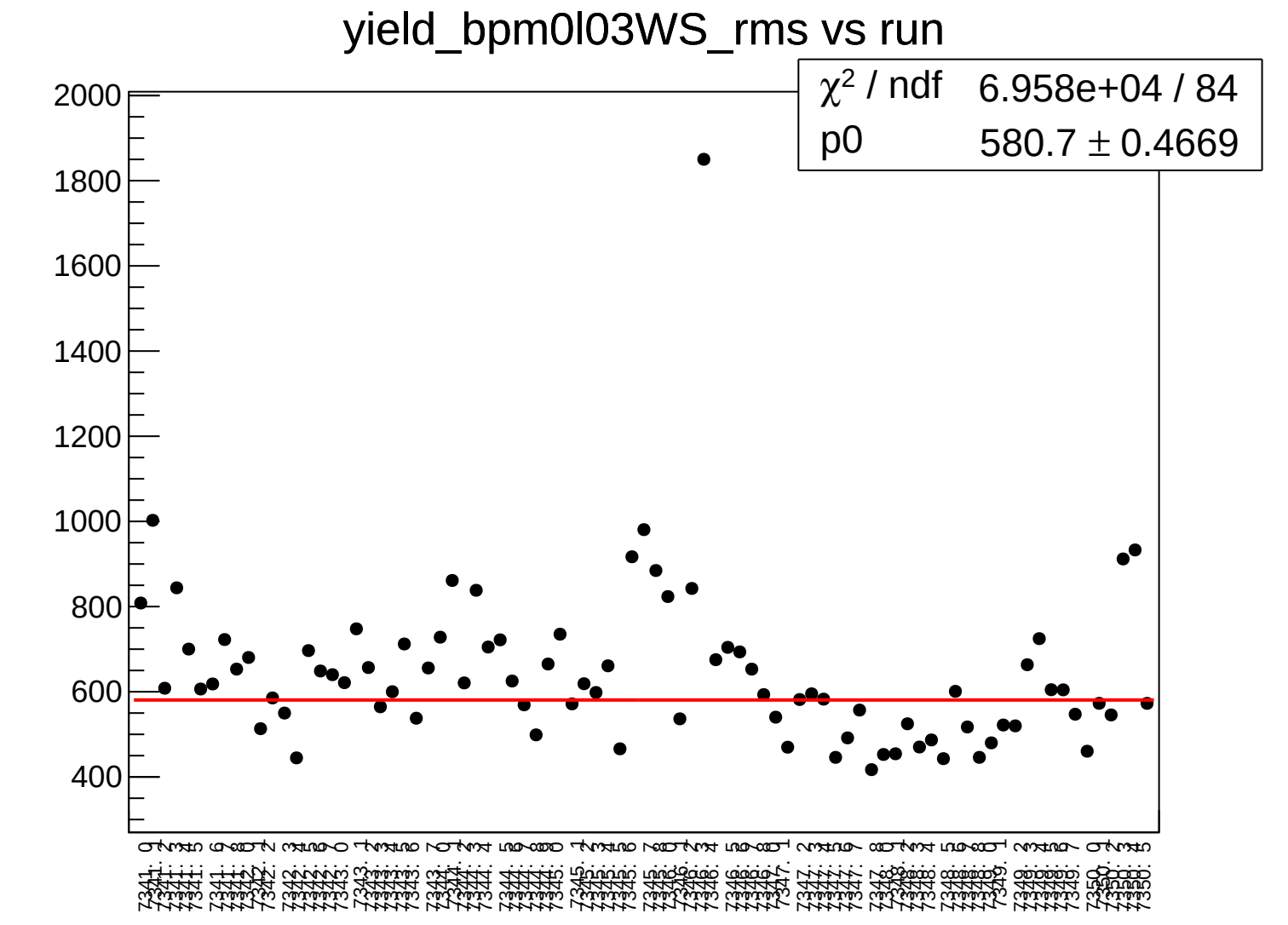

yield_bpm0l01WS_rms vs run
χ² / ndf 1593 / 84
p0 210.8 ± 0.1659
230
225
220
215
210
205
200
195
190

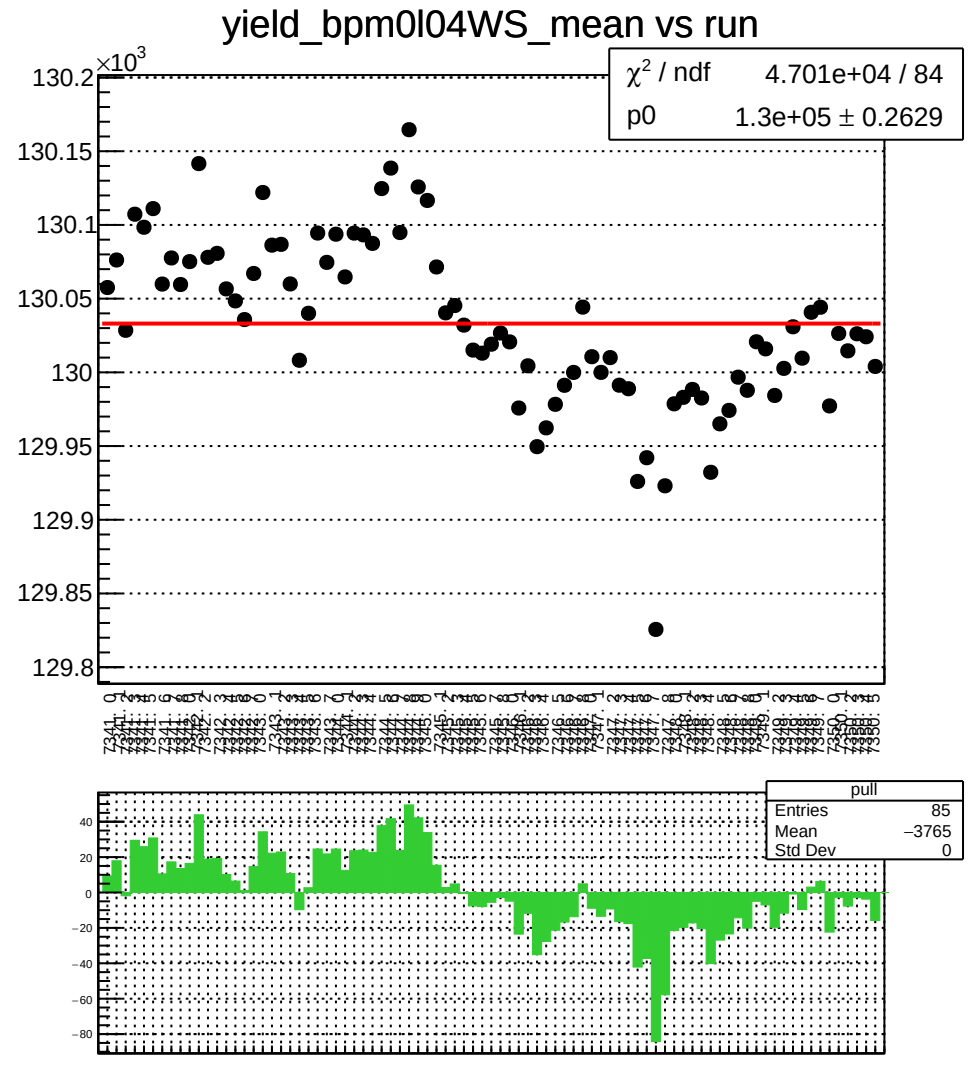

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.071e+05 / 84
p0 1.269e+05 ± 0.39
127.5
127.4
127.3
127.2
127.1
127
126.9
126.8
126.7
pull
Entries 85
Mean −1618
Std Dev 0
150
100
50
0
−50
pull1D
Entries 85
Mean −2.047
Std Dev 4.244
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

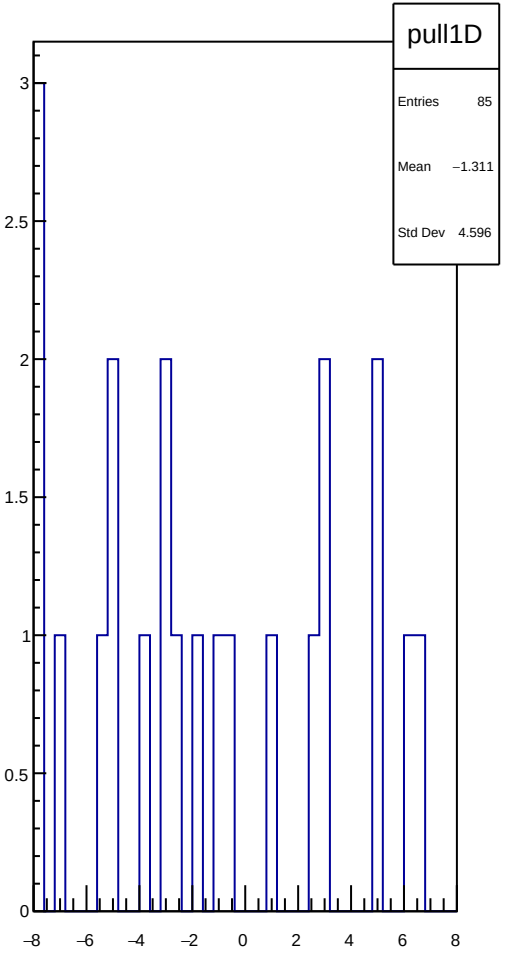

yield_bpm0l02WS_rms vs run
χ² / ndf 1196 / 84
p0 350.5 ± 0.2758
380
370
360
350
340
330

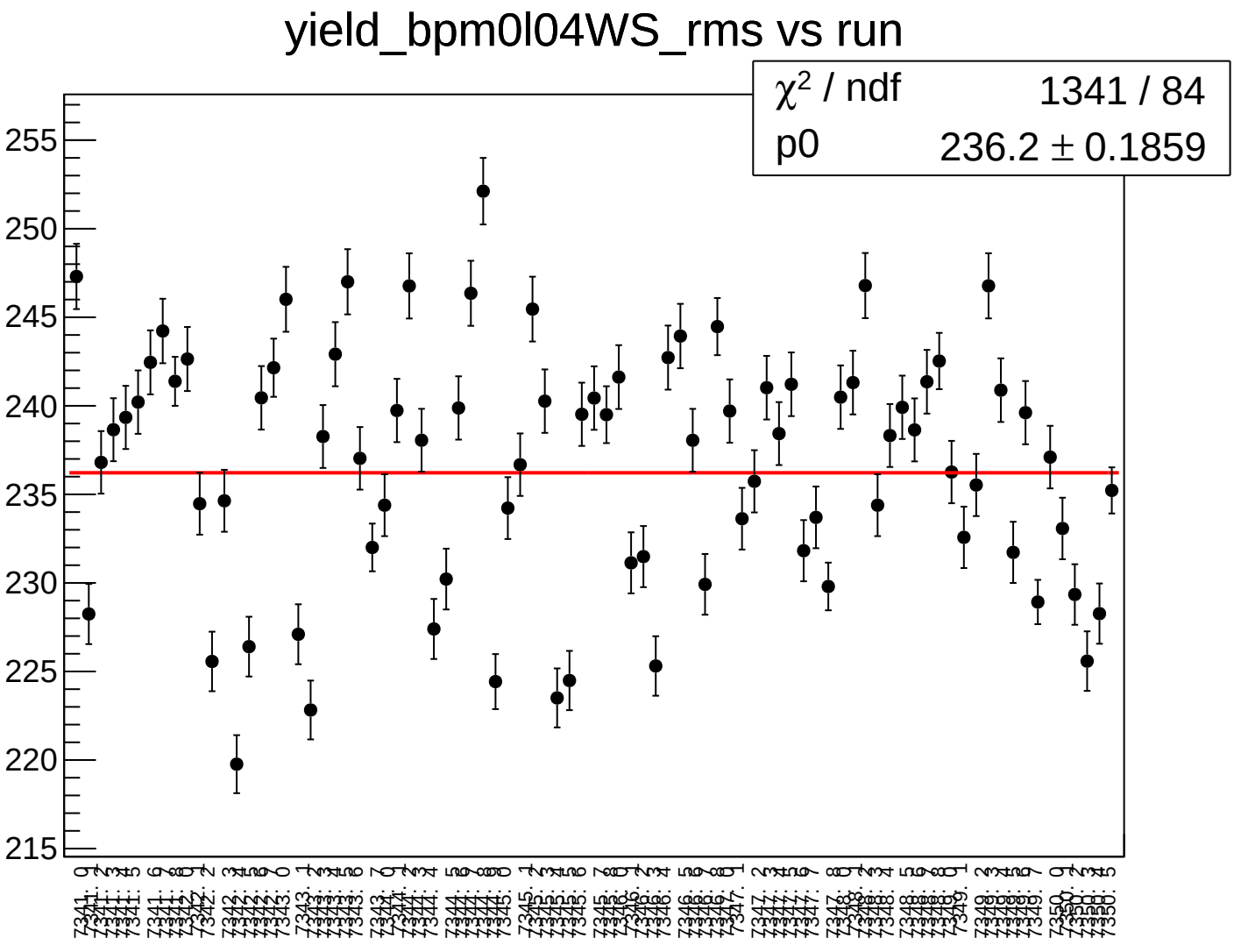

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 2.279e+04 / 84
p0 1.25e+05 ± 0.6603
125.2
125
124.8
124.6
124.4
124.2
124
123.8
pull
Entries 85
Mean 57.43
Std Dev 25.9
30
20
10
0
−10
−20
−30
−40
−50
−60

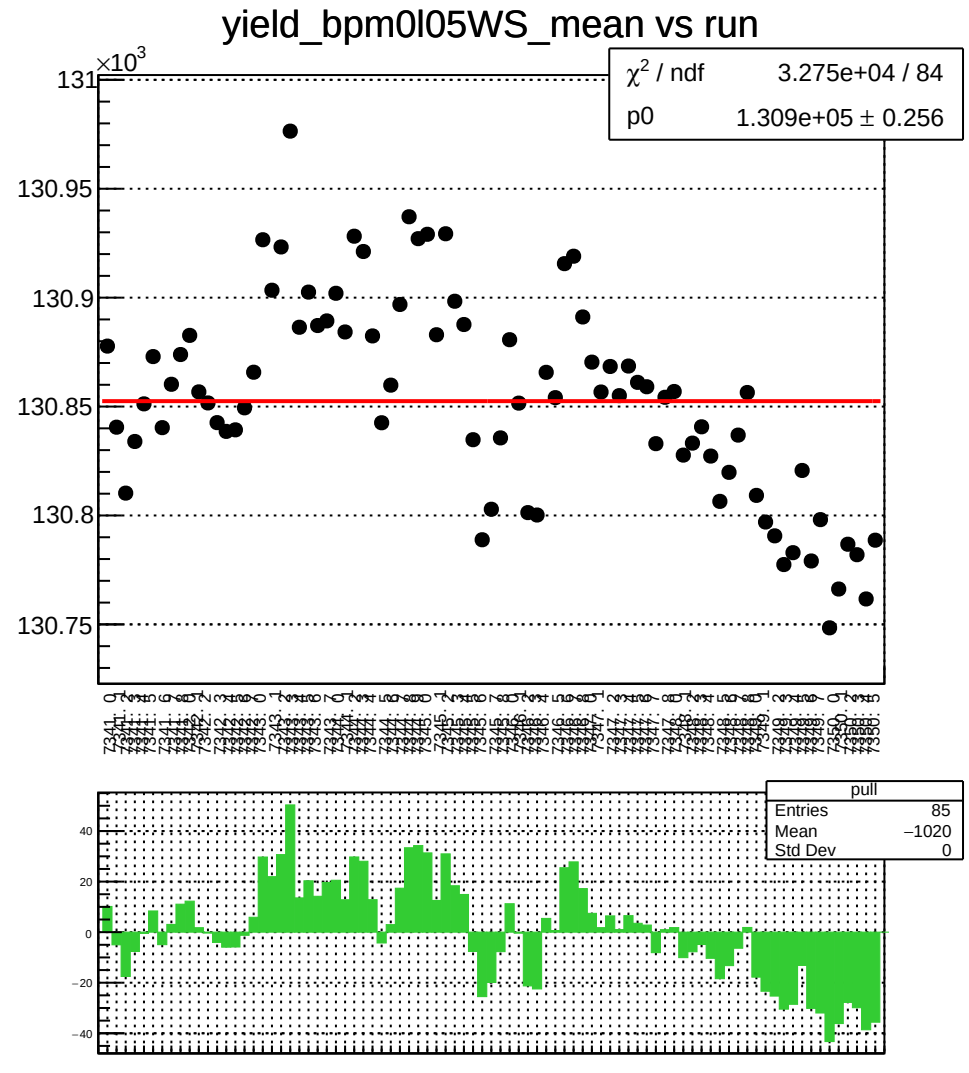

pull1D
Entries 85
Mean 0.4866
Std Dev 4.519
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

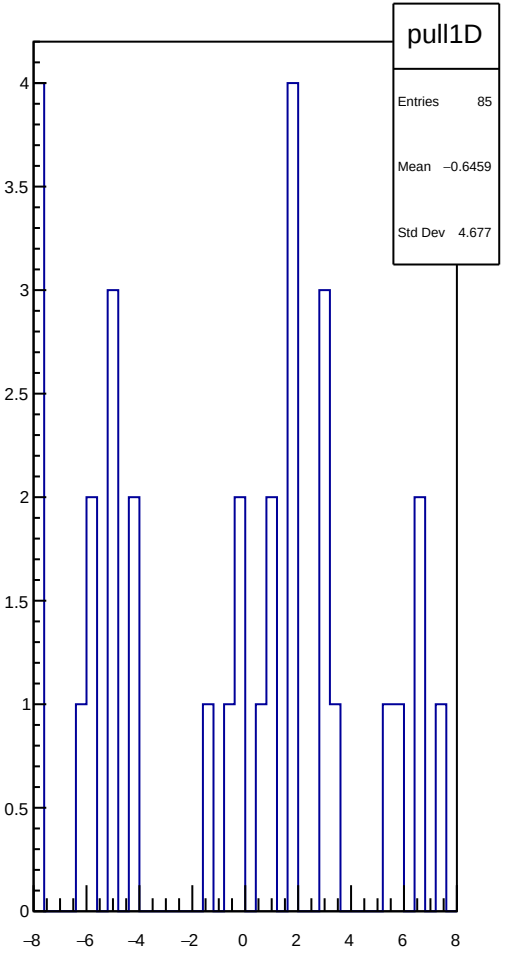

yield_bpm0l03WS_rms vs run
χ² / ndf 6.958e+04 / 84
p0 580.7 ± 0.4669
2000
1800
1600
1400
1200
1000
800
600
400

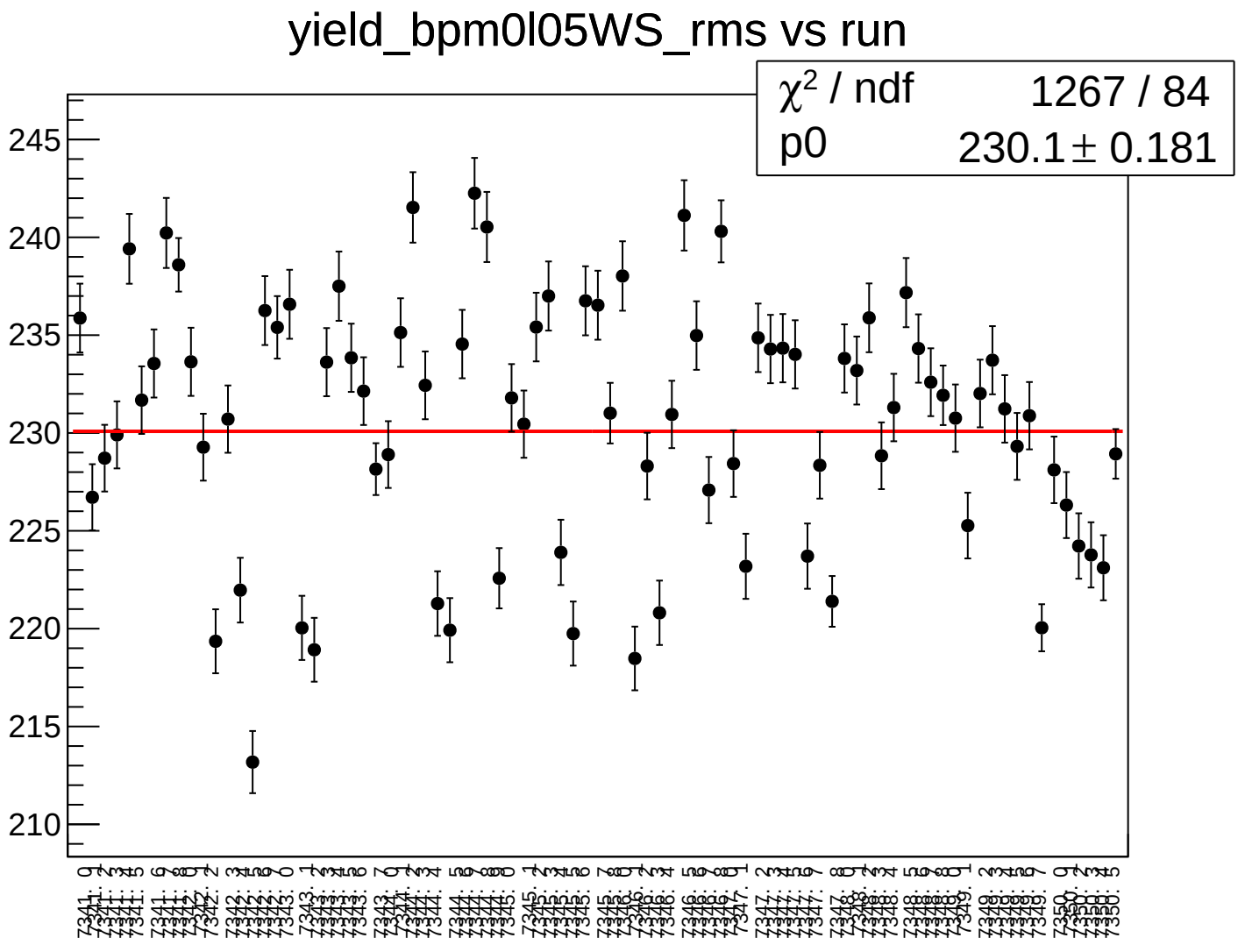

yield_bpm0l04WS_mean vs run
×10^3
130.2
130.15
130.1
130.05
130
129.95
129.9
129.85
129.8
χ² / ndf 4.701e+04 / 84
p0 1.3e+05 ± 0.2629
pull
Entries 85
Mean −3765
Std Dev 0
40
20
0
−20
−40
−60
−80

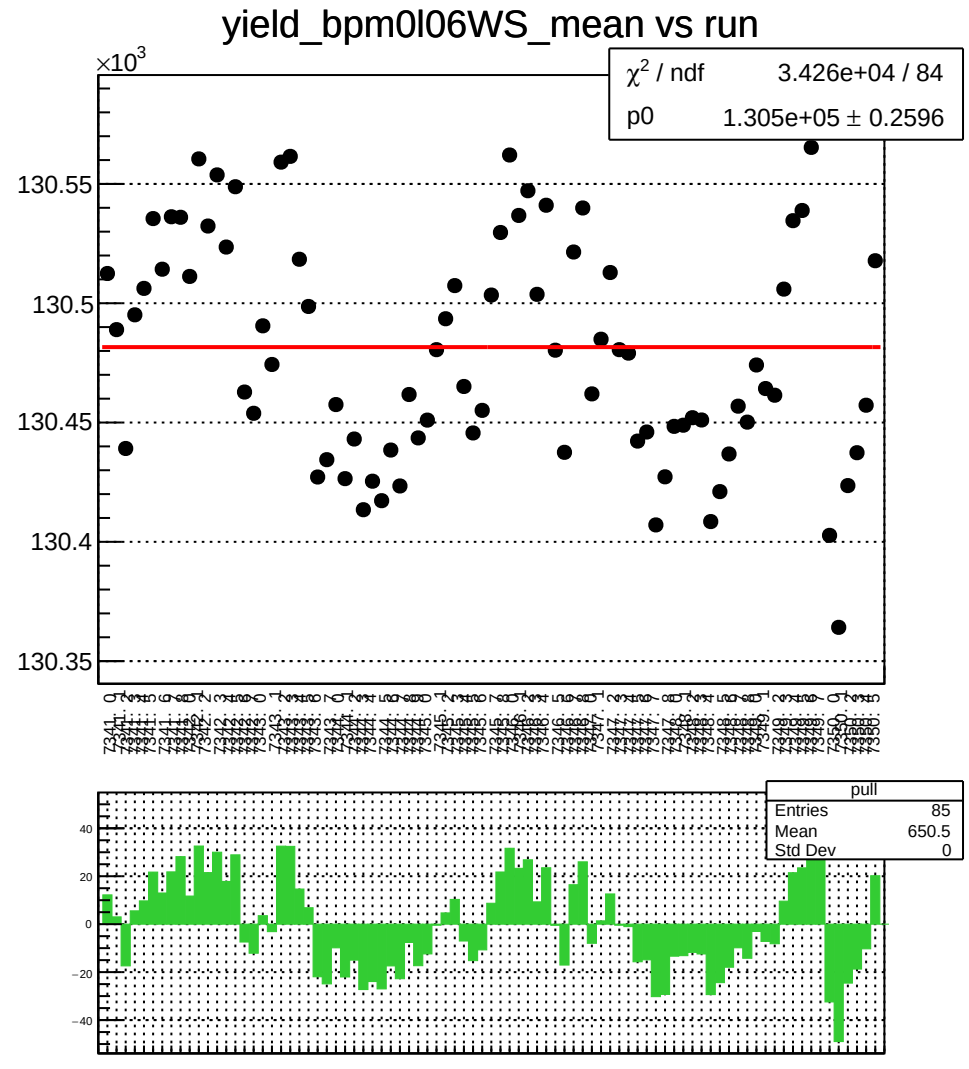

pull1D
Entries 85
Mean −1.311
Std Dev 4.596
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

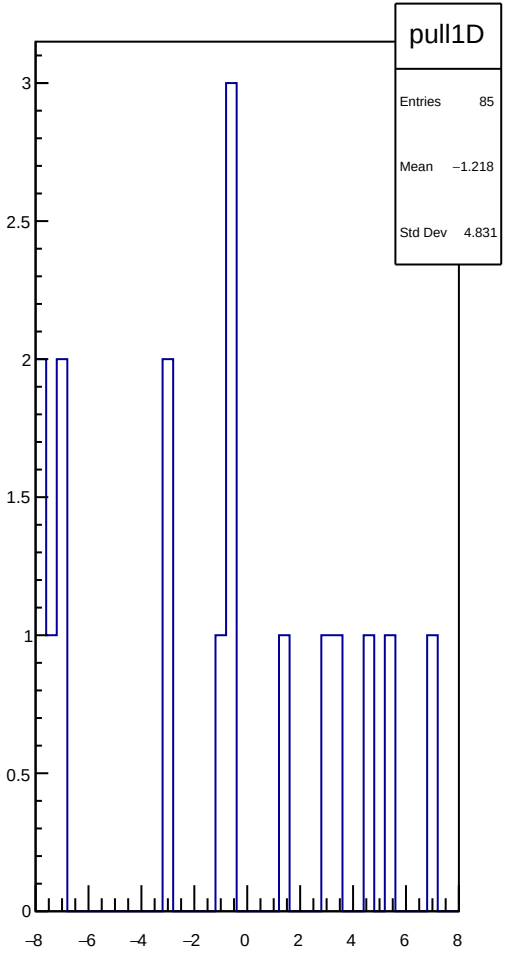

yield_bpm0l04WS_rms vs run
χ² / ndf 1341 / 84
p0 236.2 ± 0.1859
255
250
245
240
235
230
225
220
215

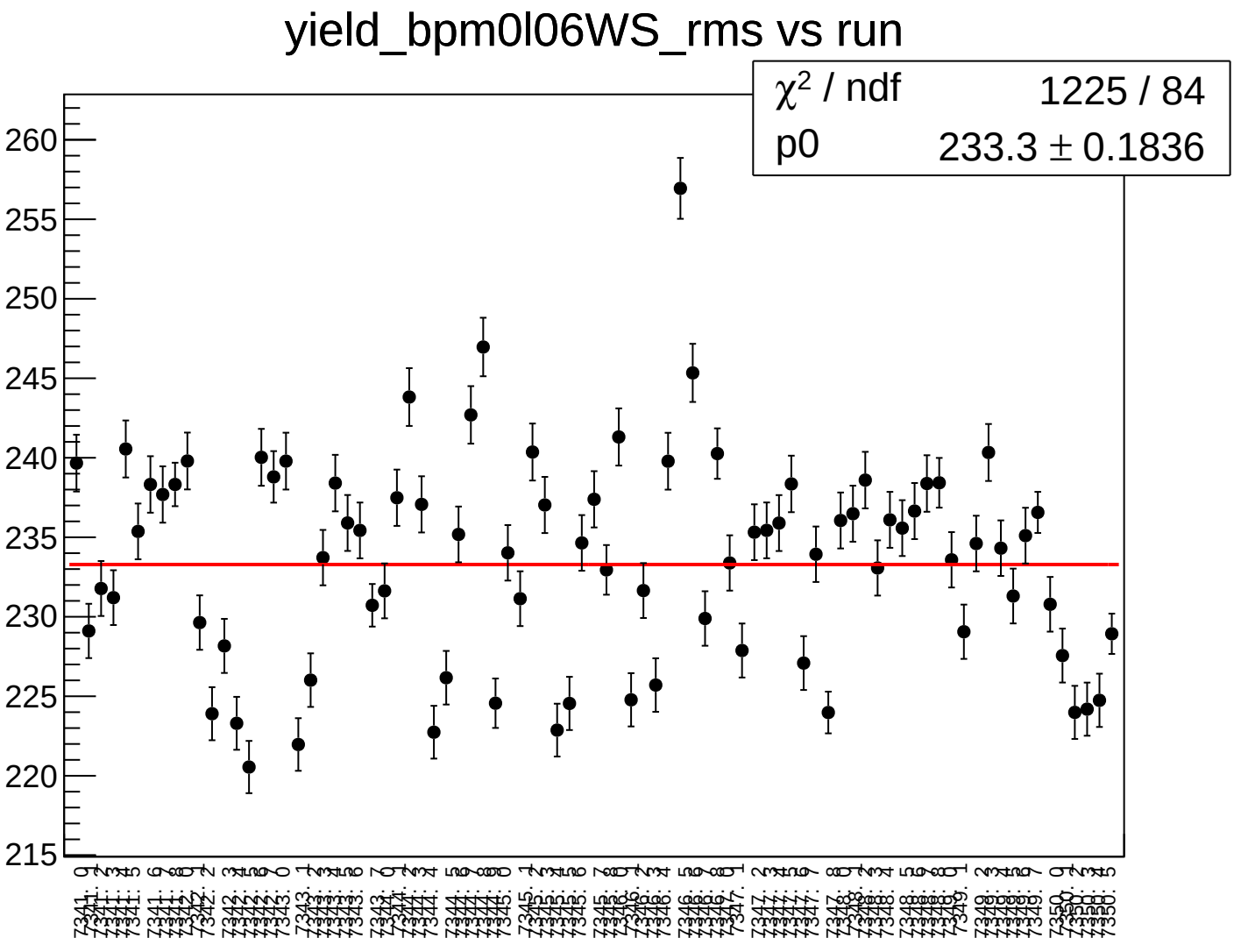

yield_bpm0l05WS_mean vs run
×10^3
131
130.95
130.9
130.85
130.8
130.75
χ² / ndf 3.275e+04 / 84
p0 1.309e+05 ± 0.256
pull
Entries 85
Mean −1020
Std Dev 0
40
20
0
−20
−40

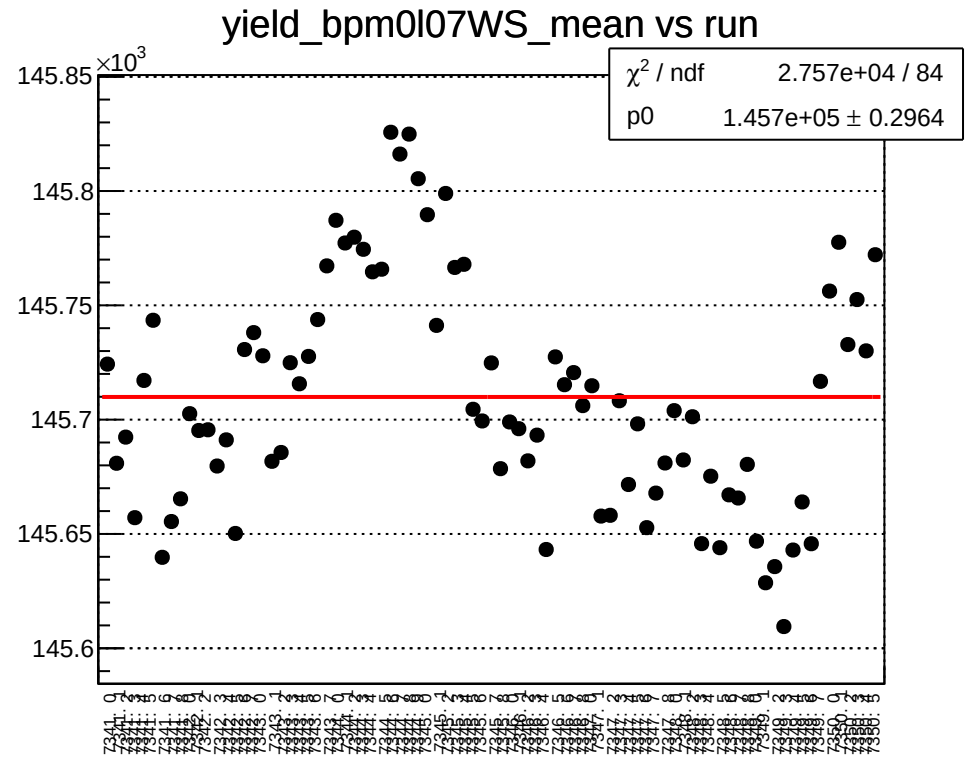

pull1D
Entries 85
Mean −0.6459
Std Dev 4.677
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

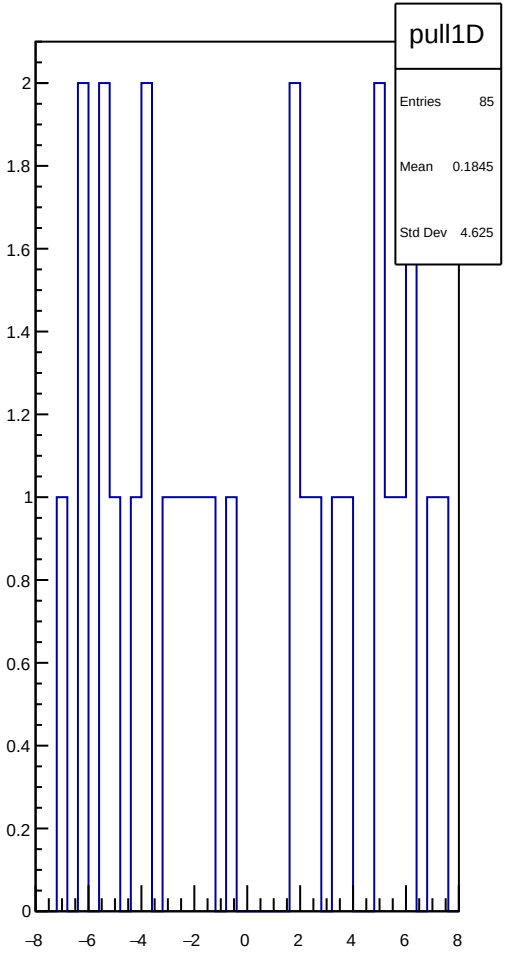

yield_bpm0l05WS_rms vs run
χ² / ndf 1267 / 84
p0 230.1 ± 0.181
245
240
235
230
225
220
215
210

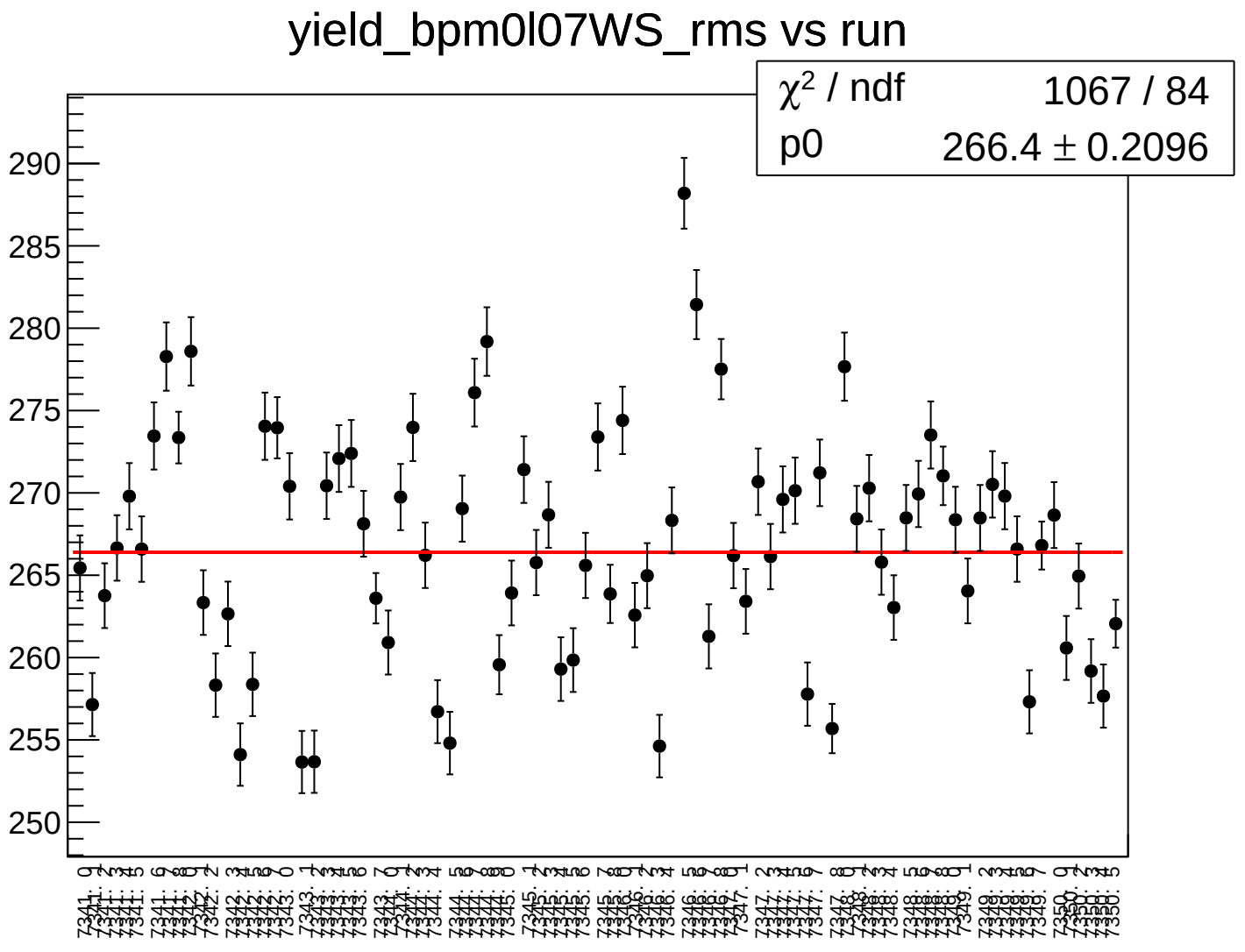

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 3.426e+04 / 84
p0 1.305e+05 ± 0.2596
130.55
130.5
130.45
130.4
130.35
pull
Entries 85
Mean 650.5
Std Dev 0
40
20
0
−20
−40

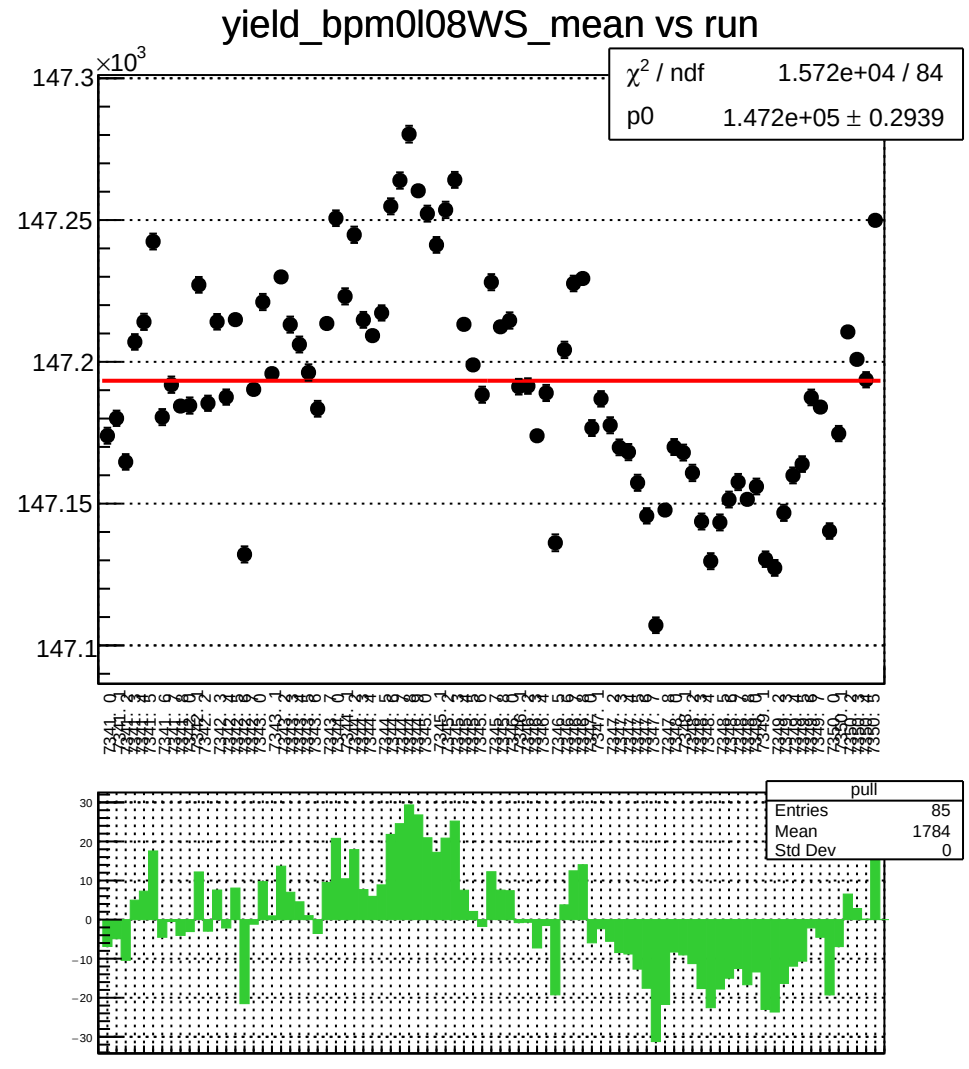

pull1D
Entries 85
Mean −1.218
Std Dev 4.831
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

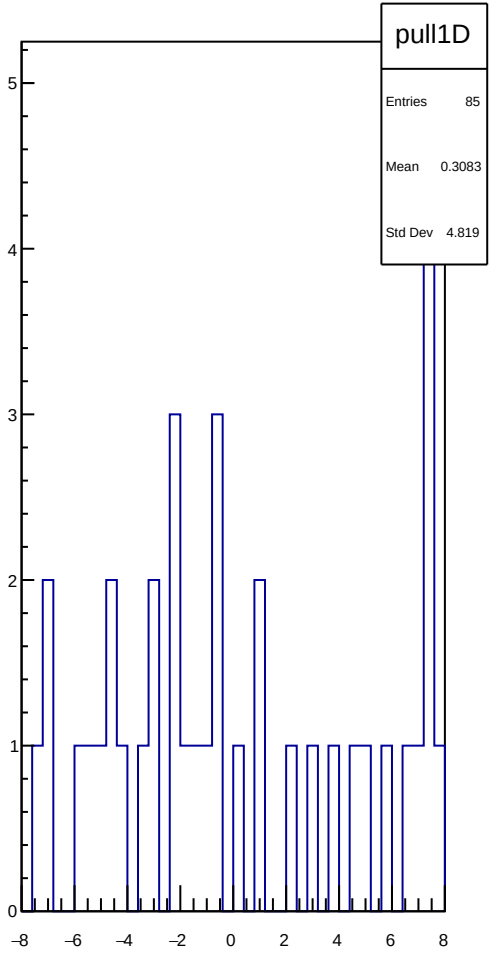

yield_bpm0l06WS_rms vs run
χ² / ndf 1225 / 84
p0 233.3 ± 0.1836
260
255
250
245
240
235
230
225
220
215

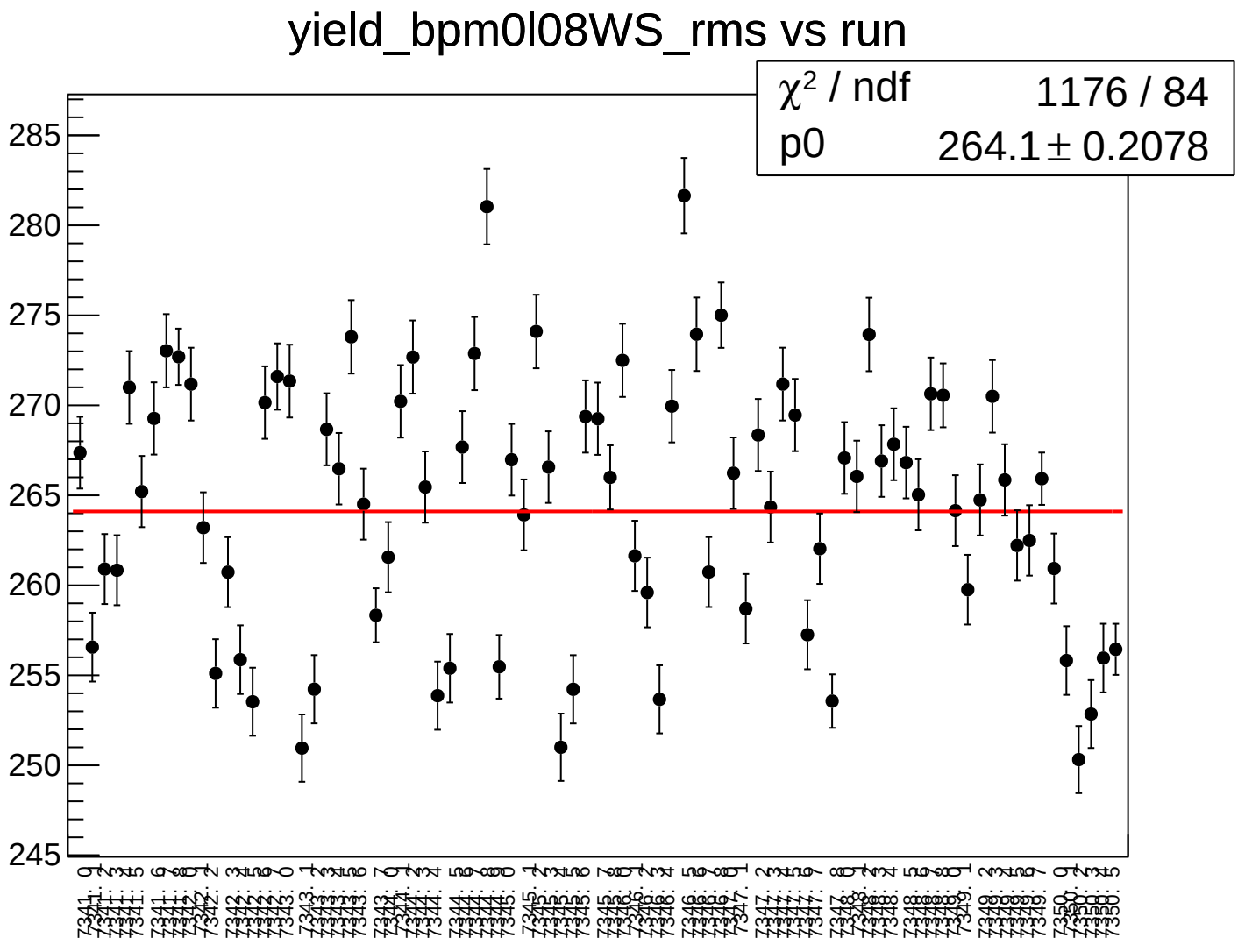

yield_bpm0l07WS_mean vs run
χ² / ndf 2.757e+04 / 84
p0 1.457e+05 ± 0.2964
×10³
145.85
145.8
145.75
145.7
145.65
145.6
pull
Entries 85
Mean 751
Std Dev 0
40
30
20
10
0
−10
−20
−30

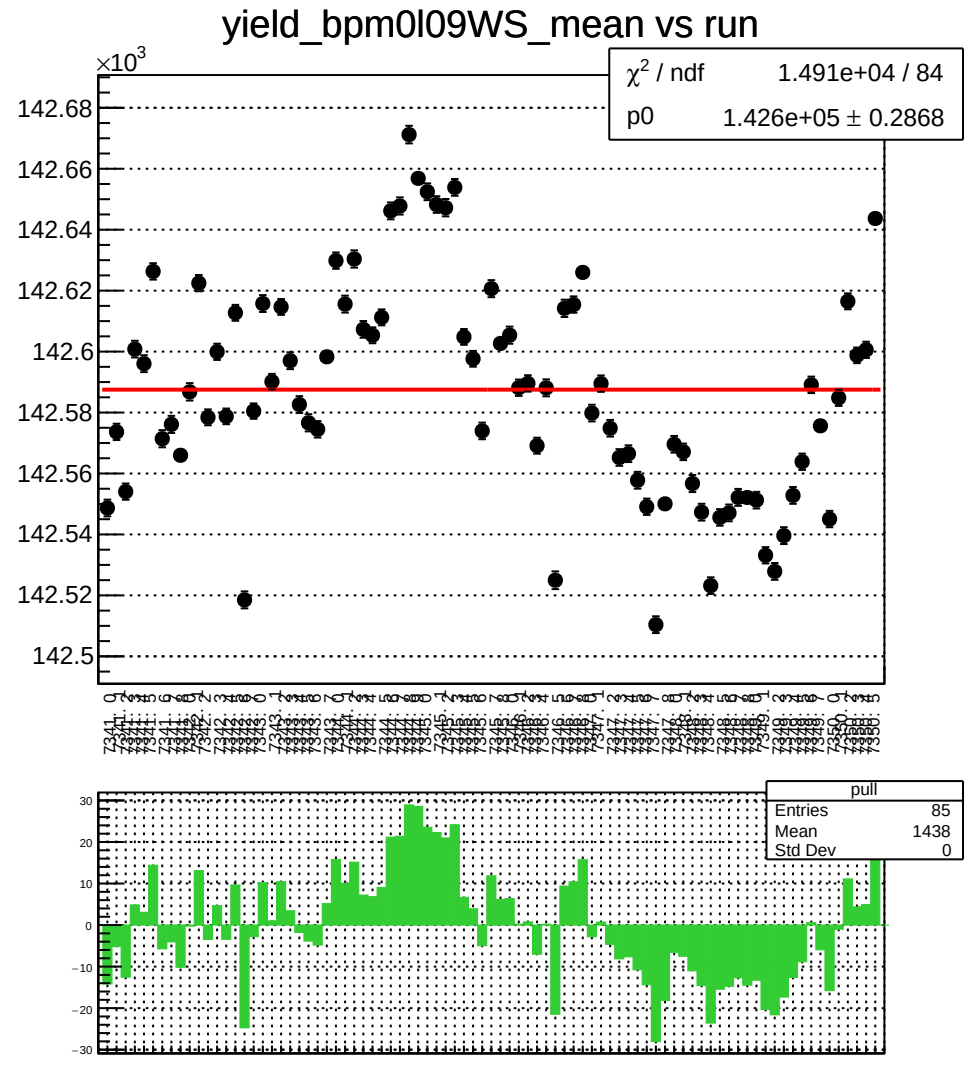

pull1D
Entries 85
Mean 0.1845
Std Dev 4.625
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

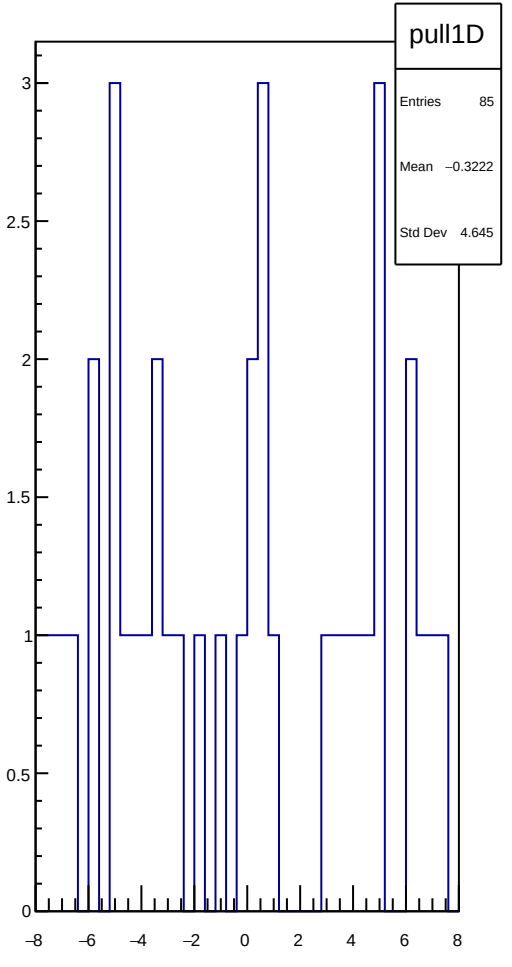

yield_bpm0l07WS_rms vs run
χ² / ndf 1067 / 84
p0 266.4 ± 0.2096
290
285
280
275
270
265
260
255
250

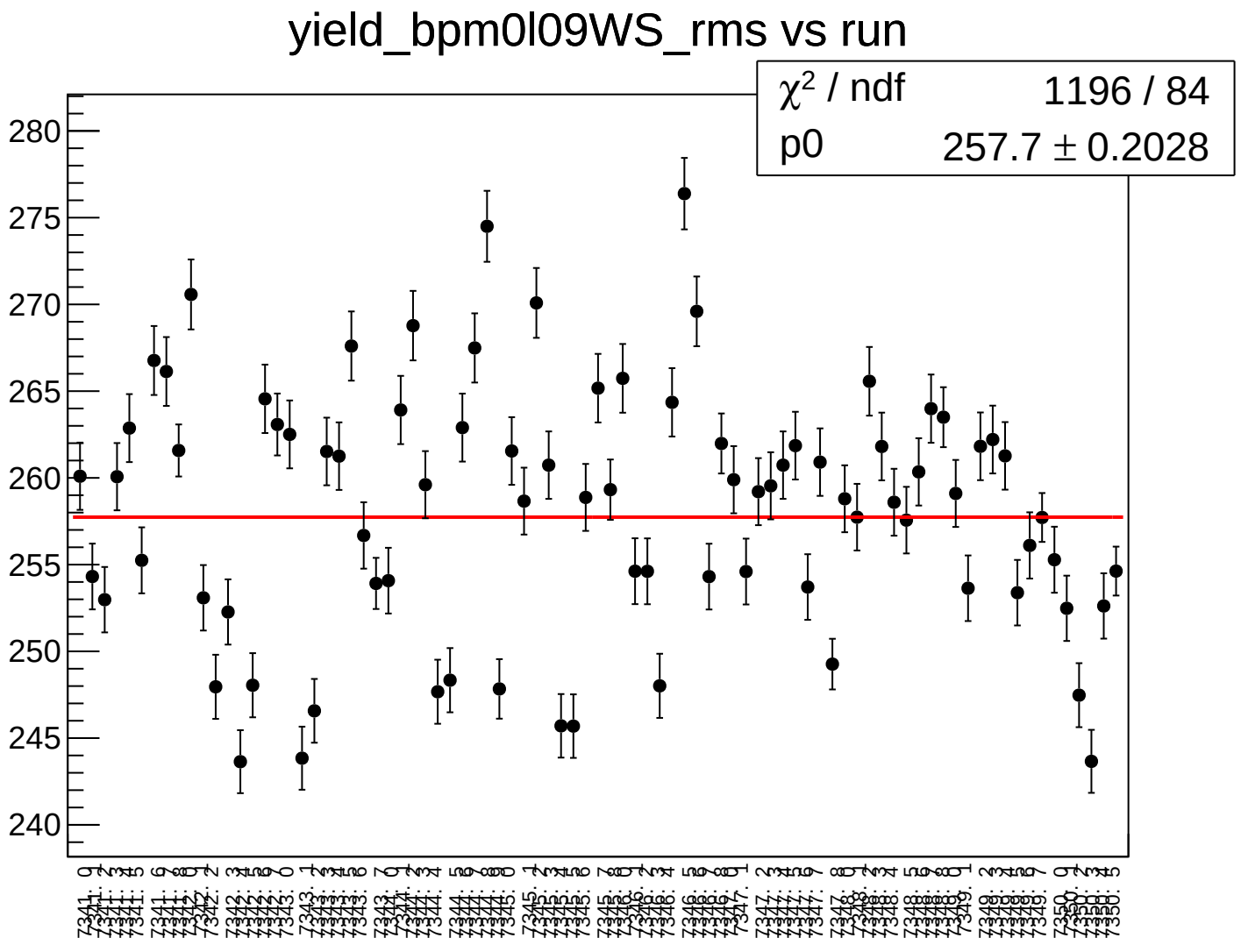

yield_bpm0l08WS_mean vs run
×10^3
147.3
147.25
147.2
147.15
147.1
χ² / ndf 1.572e+04 / 84
p0 1.472e+05 ± 0.2939
pull
Entries 85
Mean 1784
Std Dev 0
30
20
10
0
−10
−20
−30

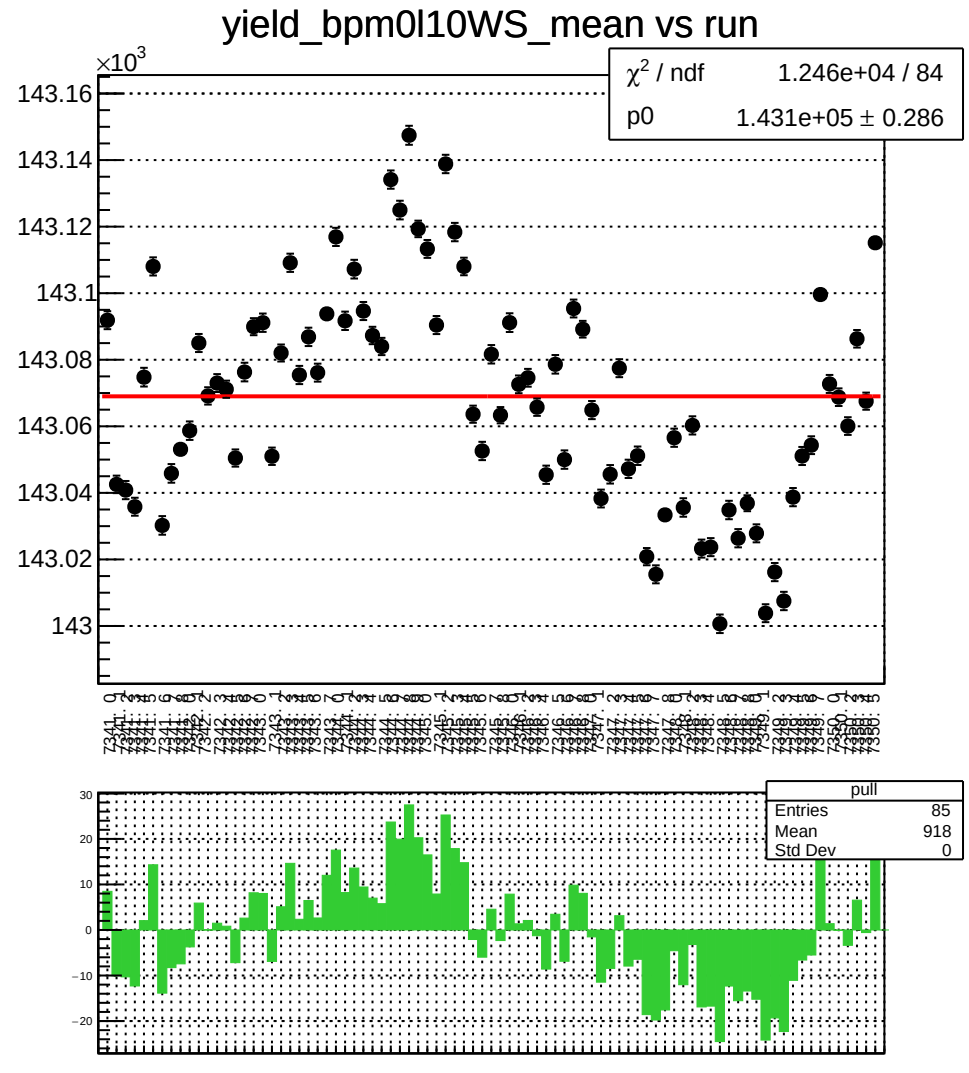

pull1D
Entries 85
Mean 0.3083
Std Dev 4.819
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

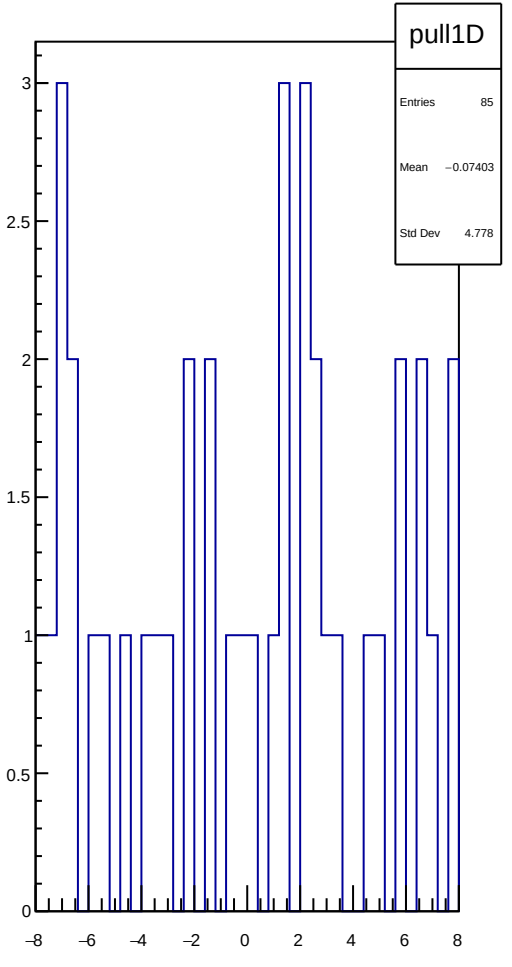

yield_bpm0l08WS_rms vs run
χ² / ndf 1176 / 84
p0 264.1 ± 0.2078
285
280
275
270
265
260
255
250
245

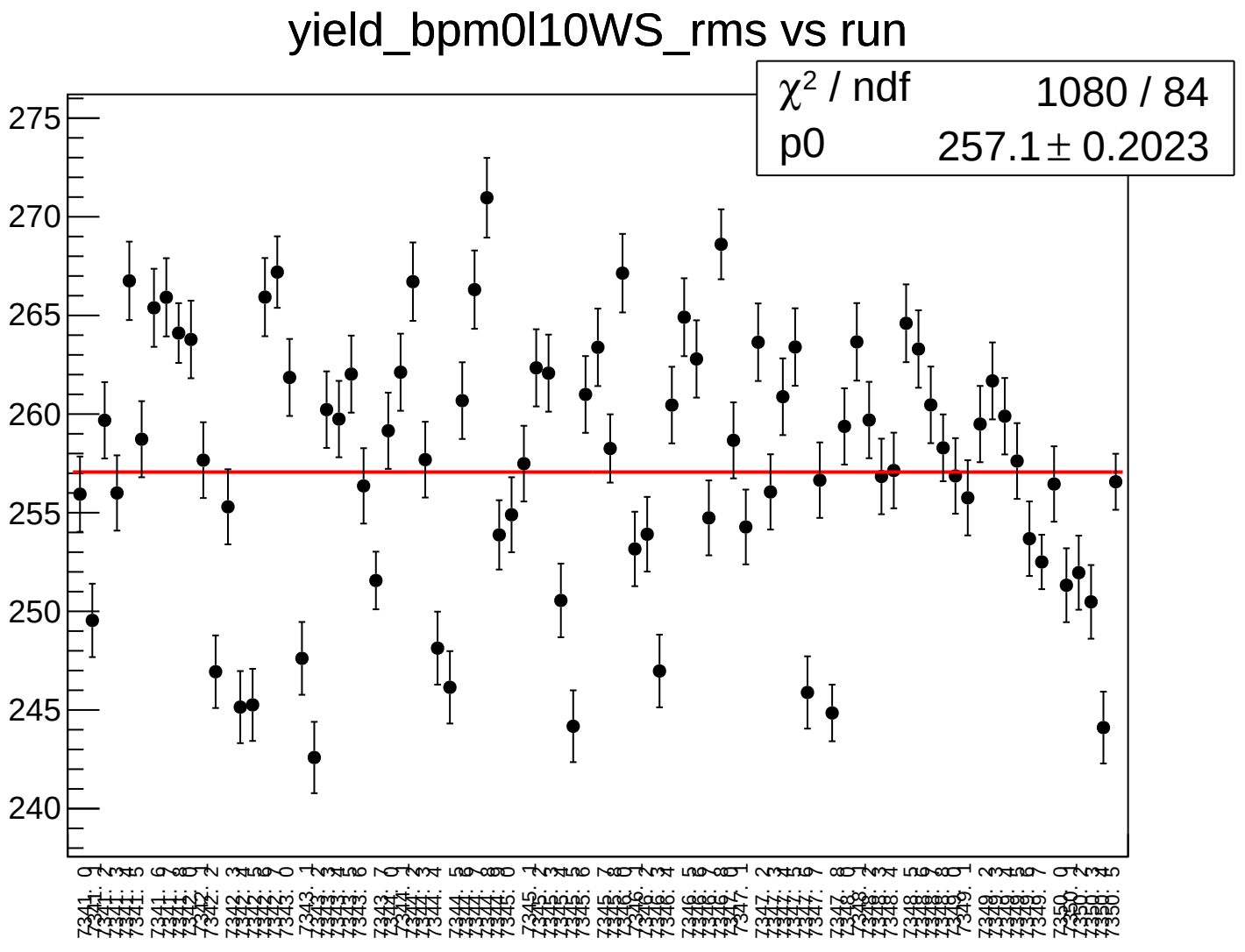

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.491e+04 / 84
p0 1.426e+05 ± 0.2868
142.68
142.66
142.64
142.62
142.6
142.58
142.56
142.54
142.52
142.5
pull
Entries 85
Mean 1438
Std Dev 0
30
20
10
0
−10
−20
−30

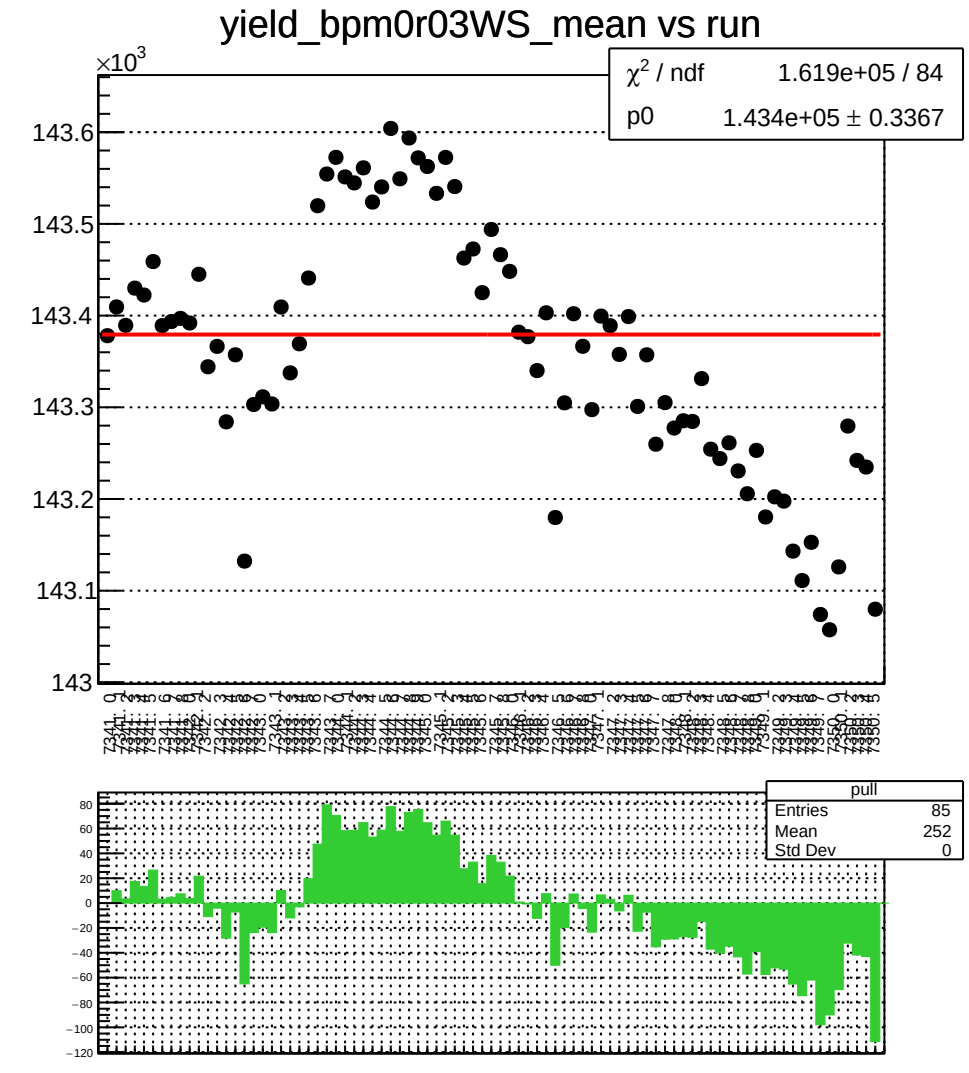

pull1D
Entries 85
Mean −0.3222
Std Dev 4.645
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

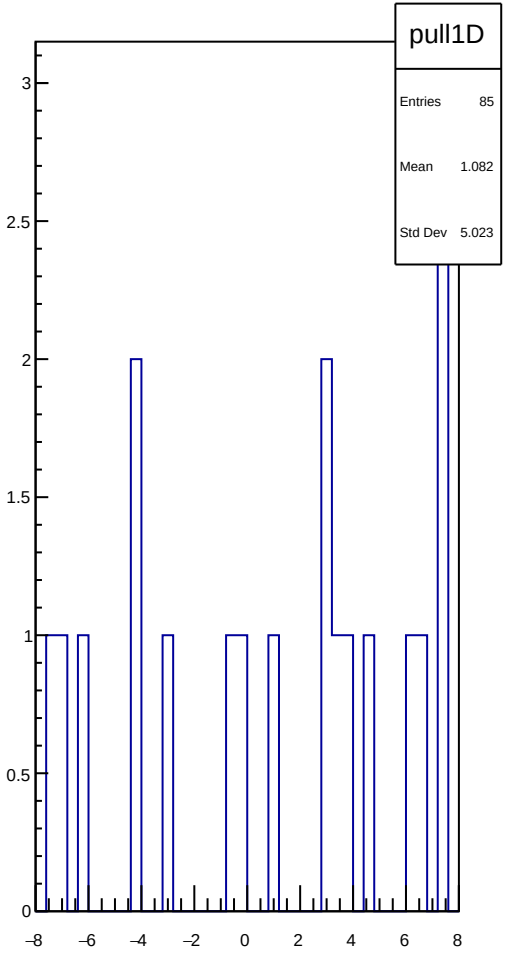

yield_bpm0l09WS_rms vs run
χ² / ndf 1196 / 84
p0 257.7 ± 0.2028
280
275
270
265
260
255
250
245
240

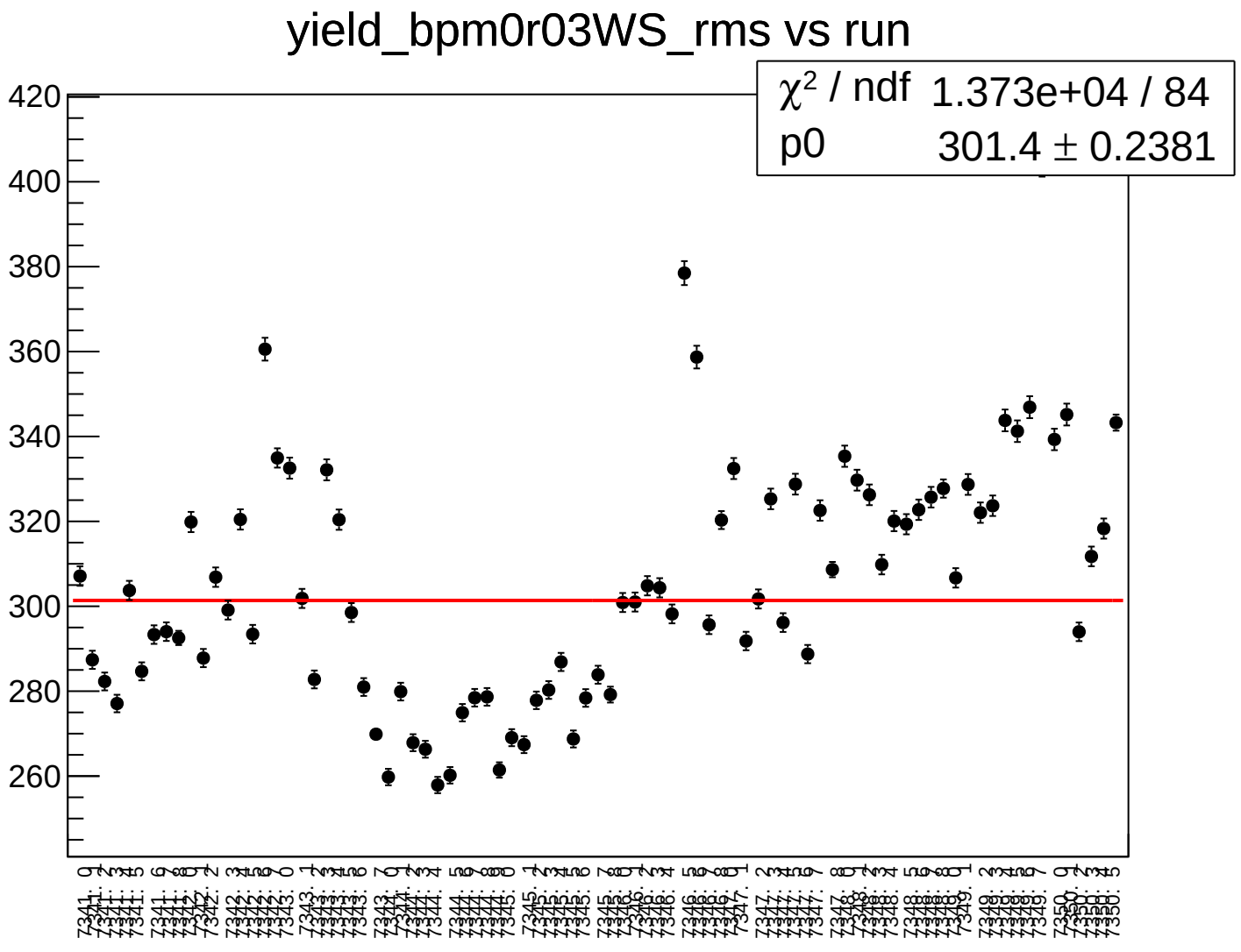

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.246e+04 / 84
p0 1.431e+05 ± 0.286
143.16
143.14
143.12
143.1
143.08
143.06
143.04
143.02
143
pull
Entries 85
Mean 918
Std Dev 0
30
20
10
0
−10
−20

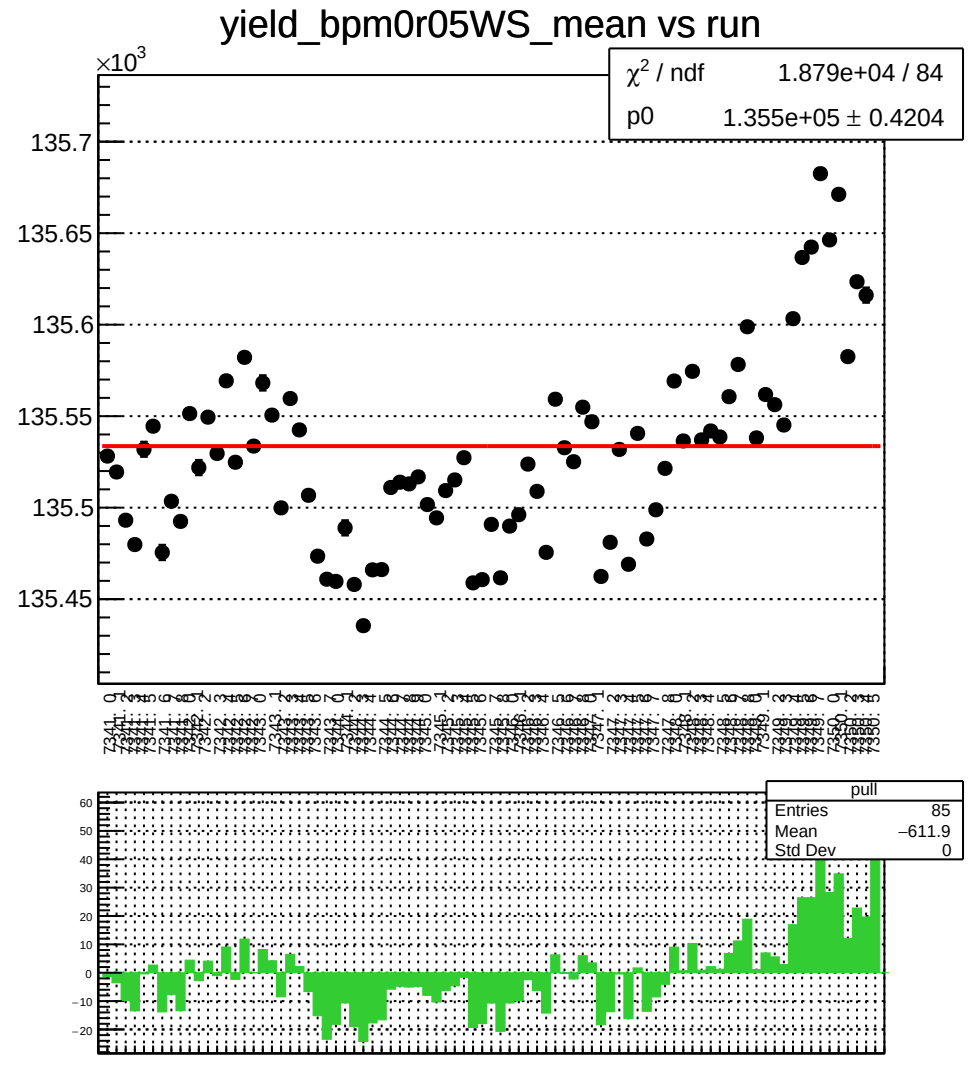

pull1D
Entries 85
Mean −0.07403
Std Dev 4.778
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

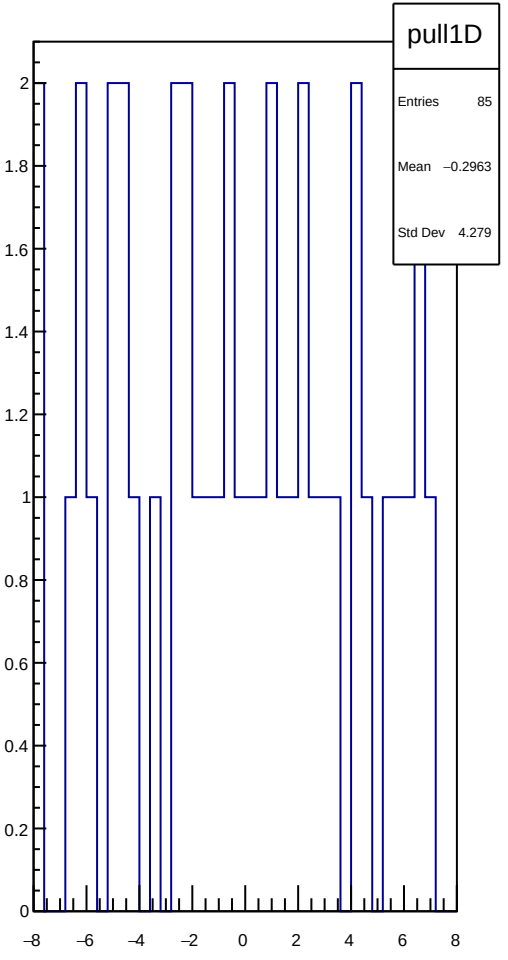

yield_bpm0l10WS_rms vs run
χ² / ndf 1080 / 84
p0 257.1 ± 0.2023
275
270
265
260
255
250
245
240

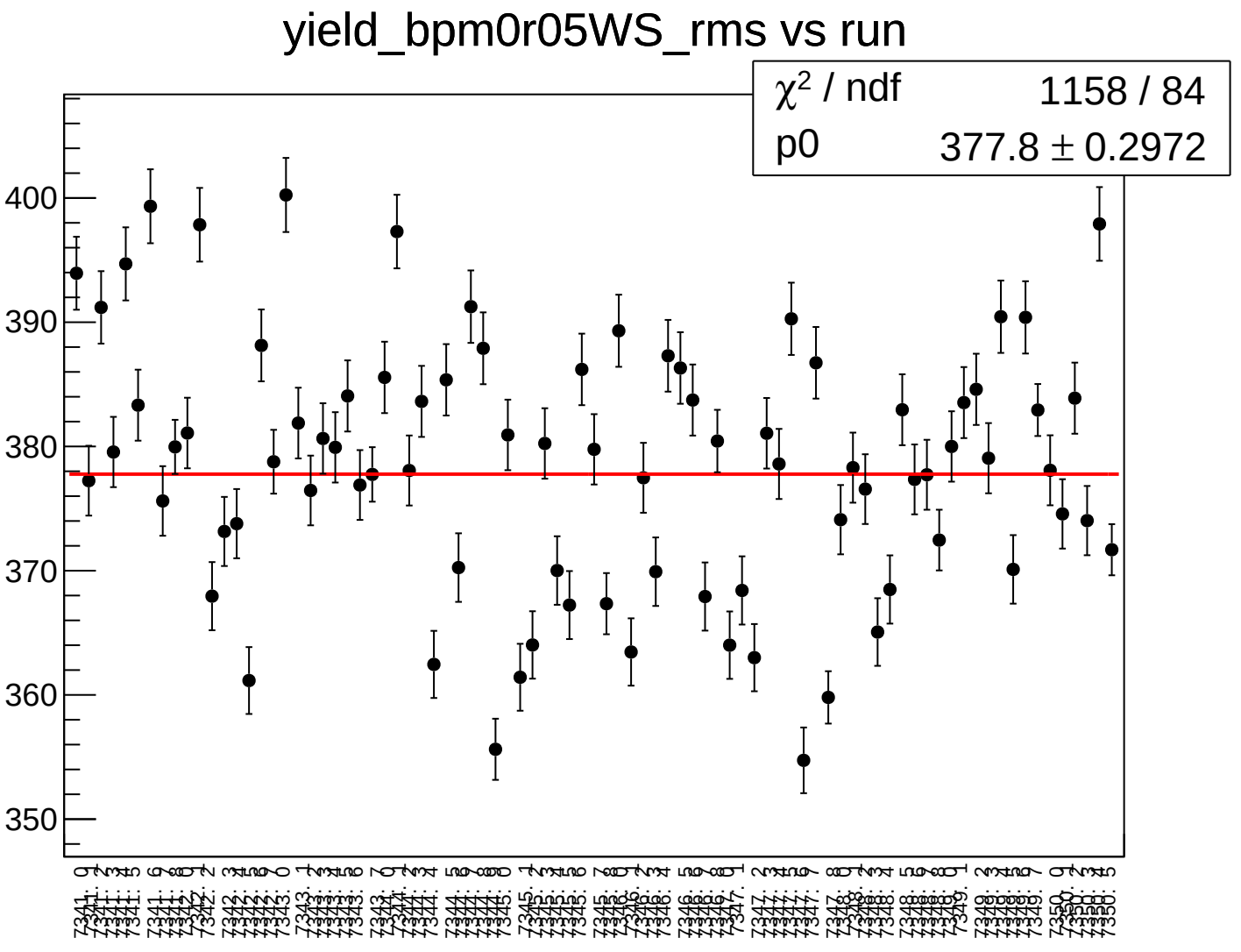

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.619e+05 / 84
p0 1.434e+05 ± 0.3367
143.6
143.5
143.4
143.3
143.2
143.1
143
pull
Entries 85
Mean 252
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

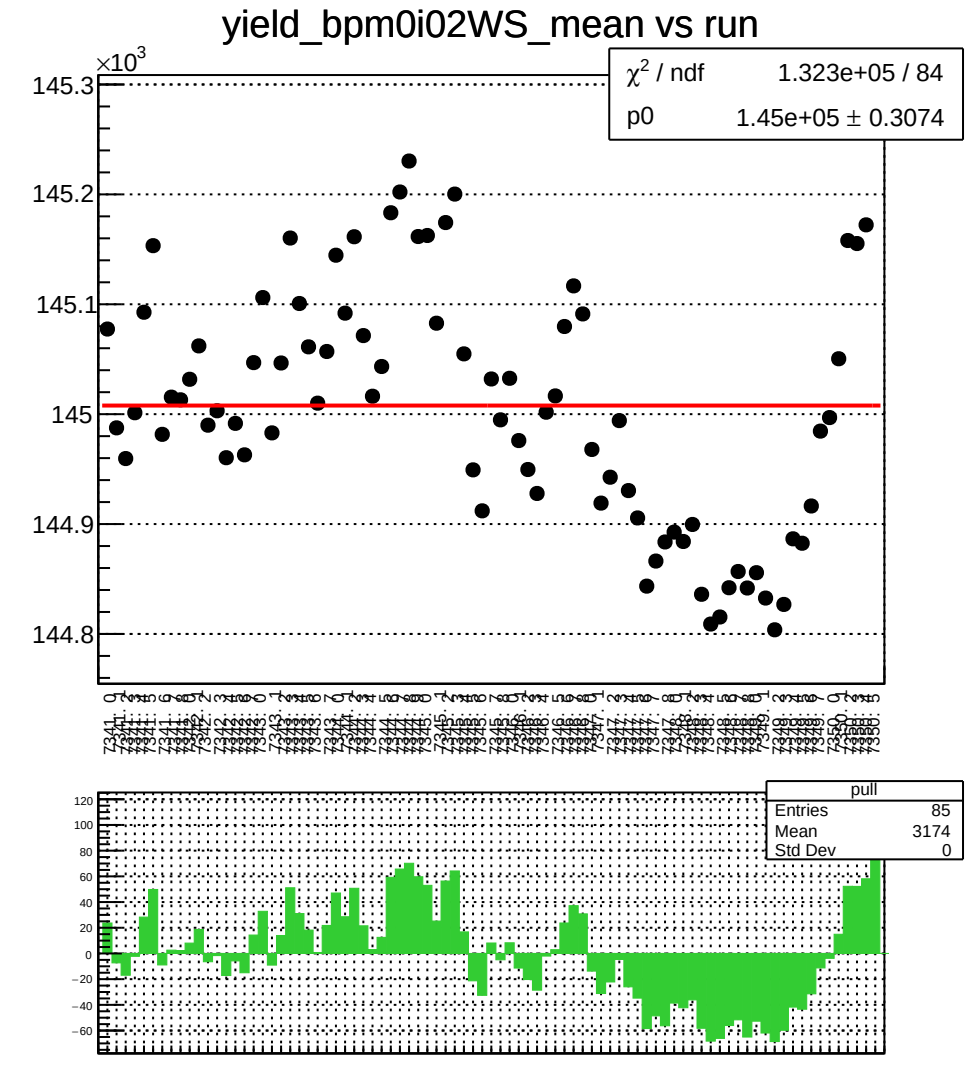

pull1D
Entries 85
Mean 1.082
Std Dev 5.023
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

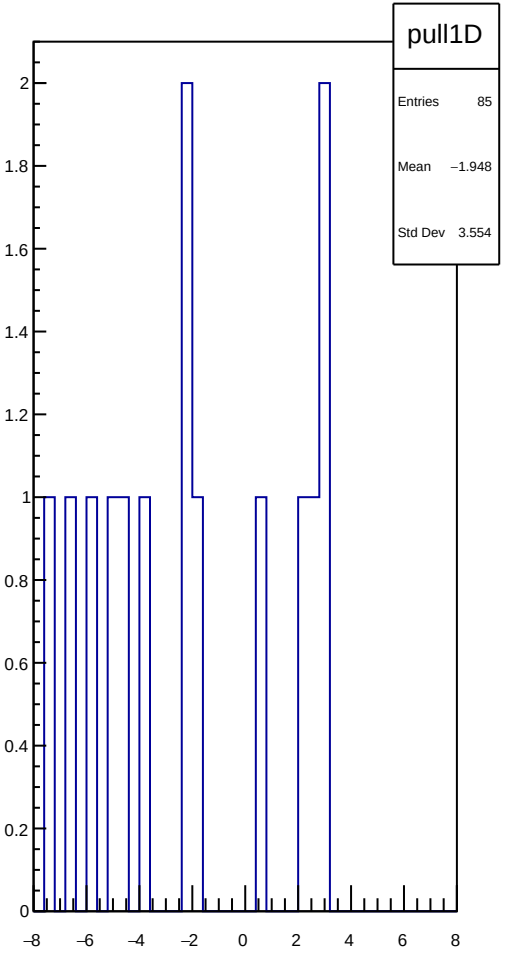

yield_bpm0r03WS_rms vs run
χ² / ndf 1.373e+04 / 84
p0 301.4 ± 0.2381
420
400
380
360
340
320
300
280
260

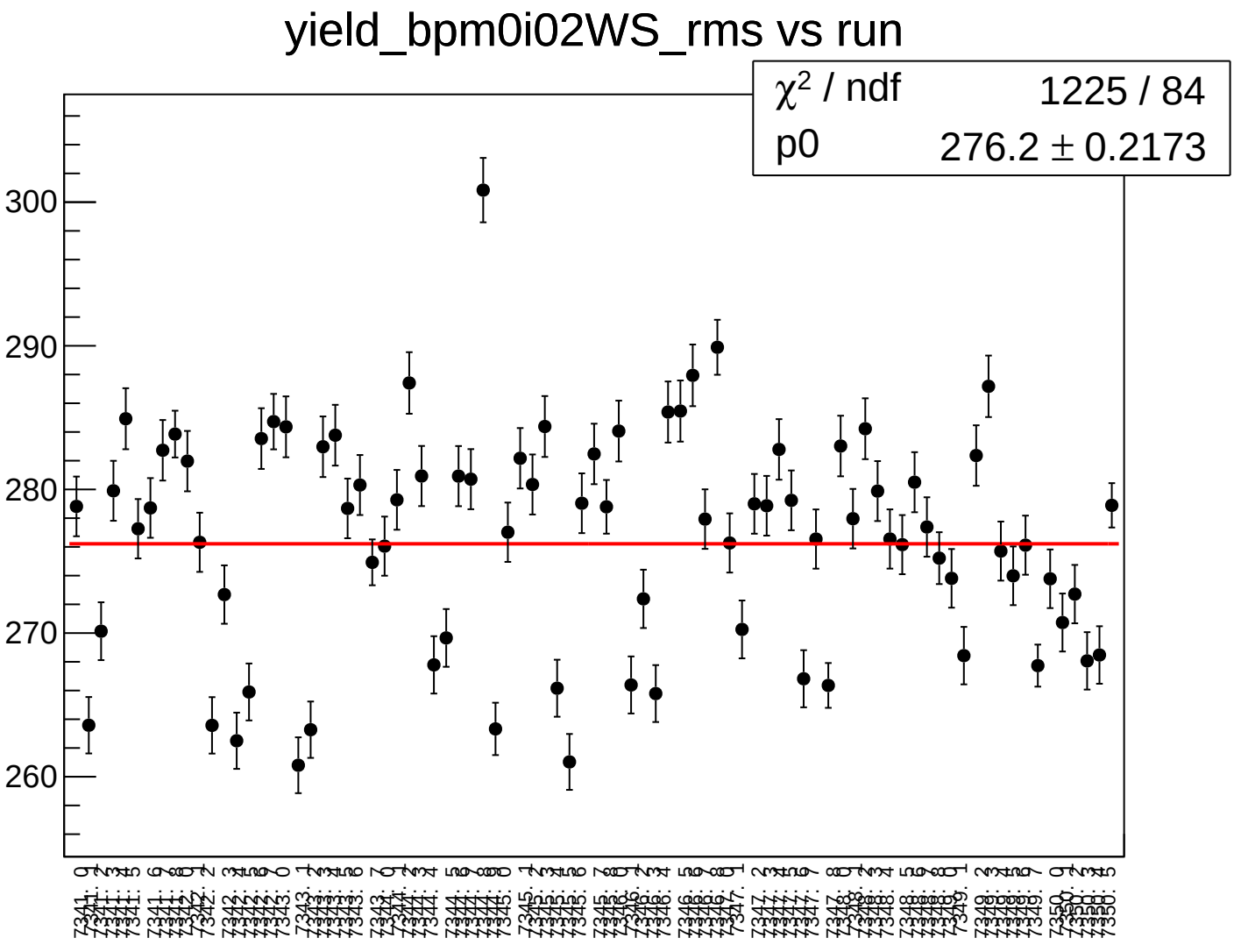

yield_bpm0r05WS_mean vs run
χ² / ndf 1.879e+04 / 84
p0 1.355e+05 ± 0.4204
×10³
135.7
135.65
135.6
135.55
135.5
135.45
pull
Entries 85
Mean −611.9
Std Dev 0
60
50
40
30
20
10
0
−10
−20

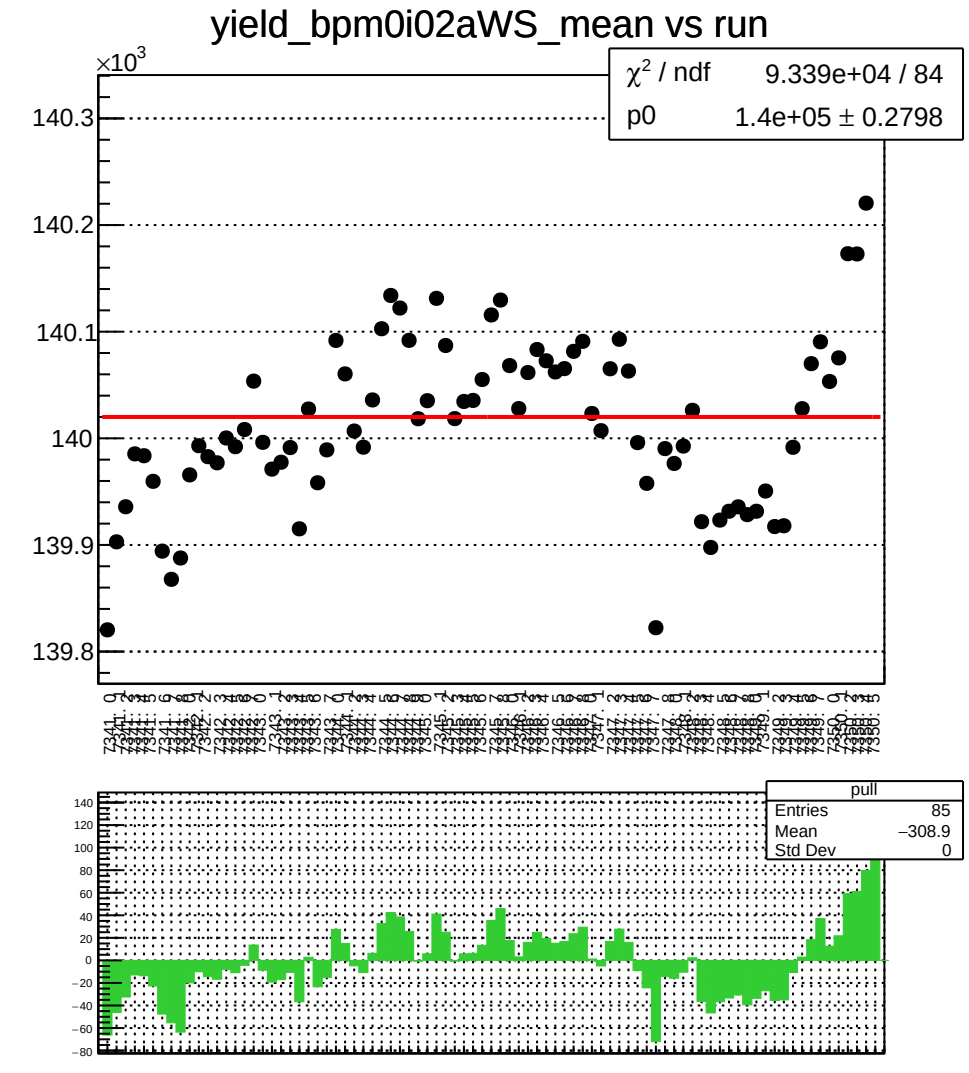

pull1D
Entries 85
Mean −0.2963
Std Dev 4.279
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

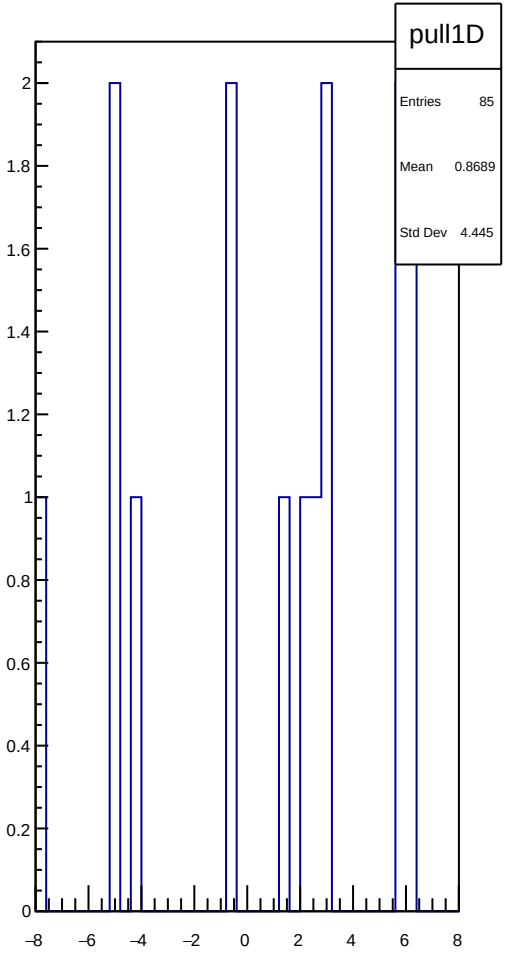

yield_bpm0r05WS_rms vs run
χ² / ndf 1158 / 84
p0 377.8 ± 0.2972
400
390
380
370
360
350

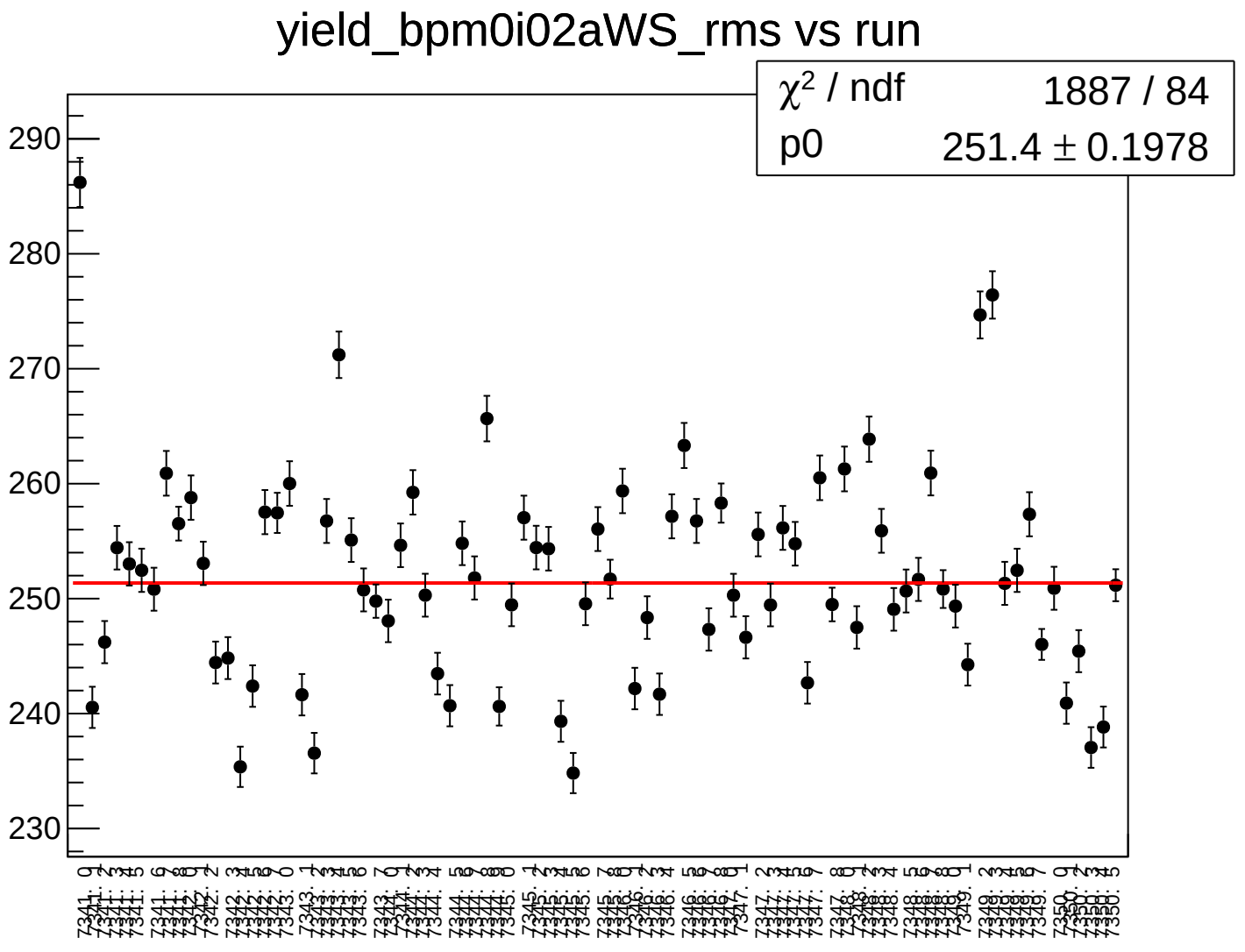

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.323e+05 / 84
p0 1.45e+05 ± 0.3074
145.3
145.2
145.1
145
144.9
144.8
pull
Entries 85
Mean 3174
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

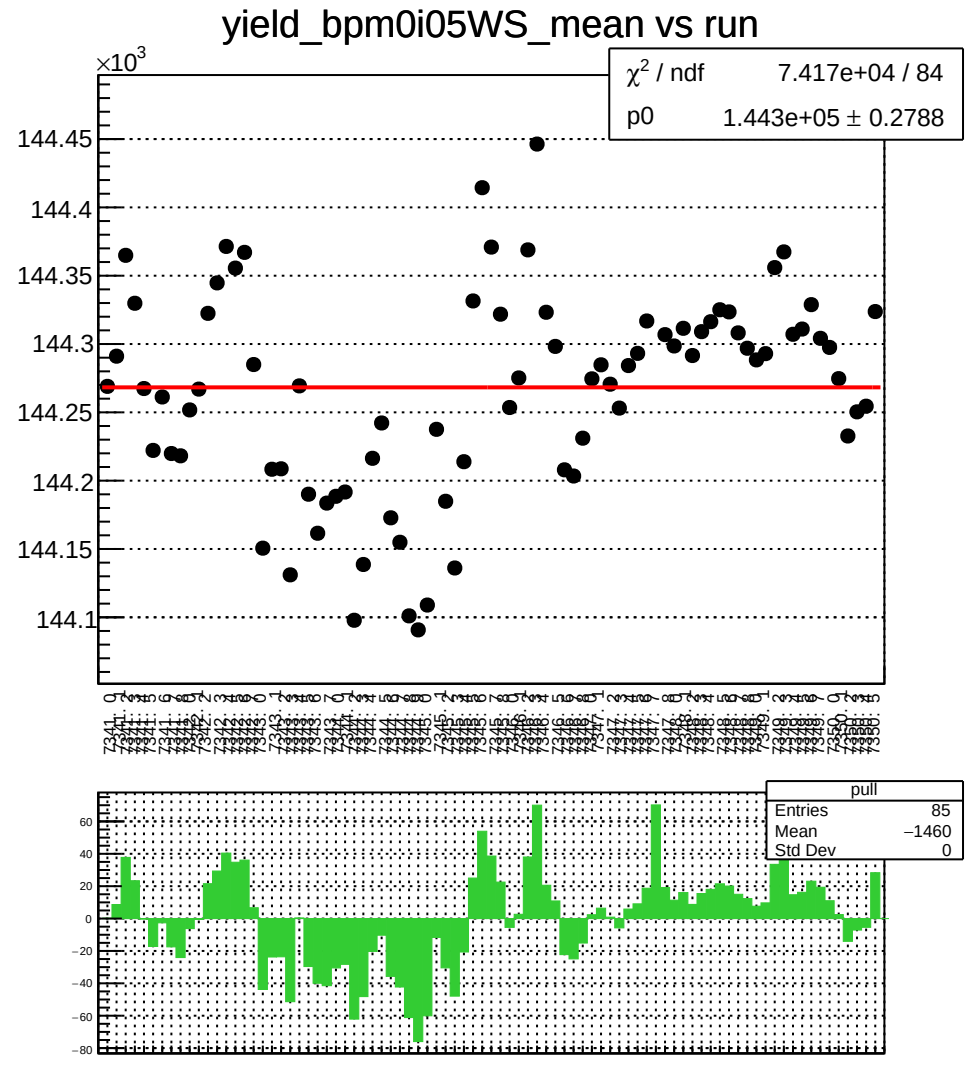

pull1D
Entries 85
Mean −1.948
Std Dev 3.554
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

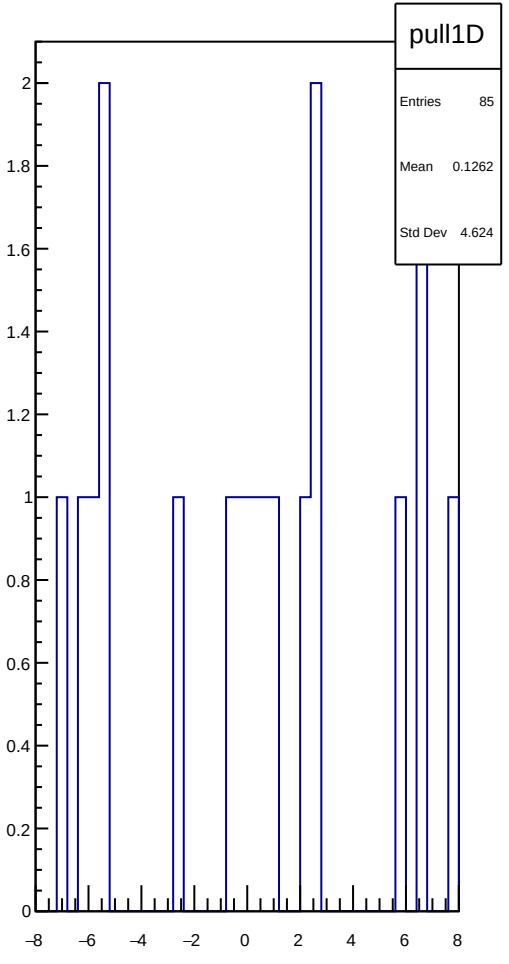

yield_bpm0i02WS_rms vs run
χ² / ndf 1225 / 84
p0 276.2 ± 0.2173
300
290
280
270
260

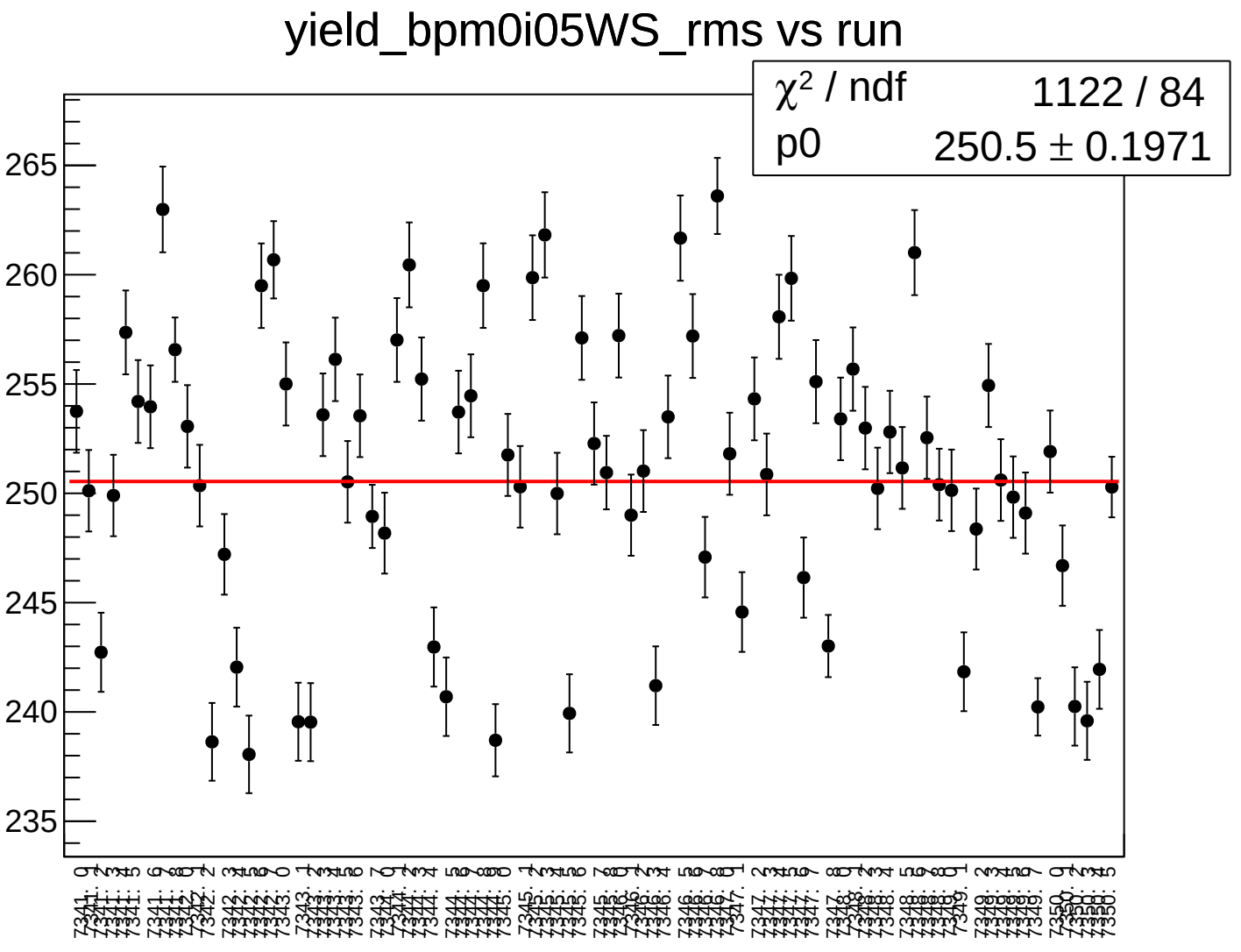

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 9.339e+04 / 84
p0 1.4e+05 ± 0.2798
140.3
140.2
140.1
140
139.9
139.8
pull
Entries 85
Mean −308.9
Std Dev 0
140
120
100
80
60
40
20
0
−20
−40
−60
−80

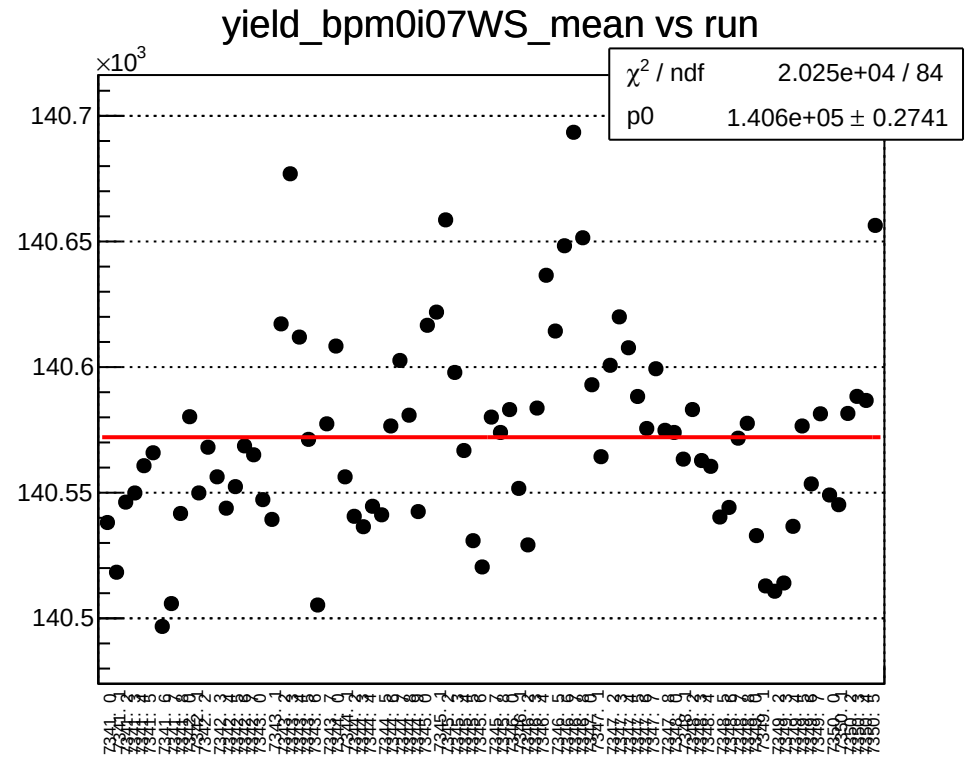

pull1D
Entries 85
Mean 0.8689
Std Dev 4.445
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

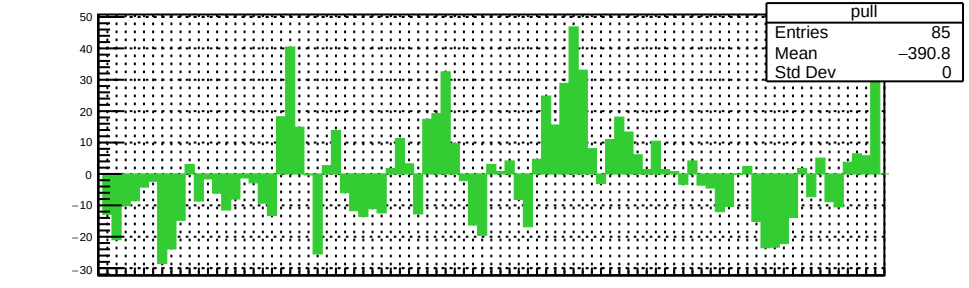

yield_bpm0i02aWS_rms vs run
χ² / ndf 1887 / 84
p0 251.4 ± 0.1978
290
280
270
260
250
240
230

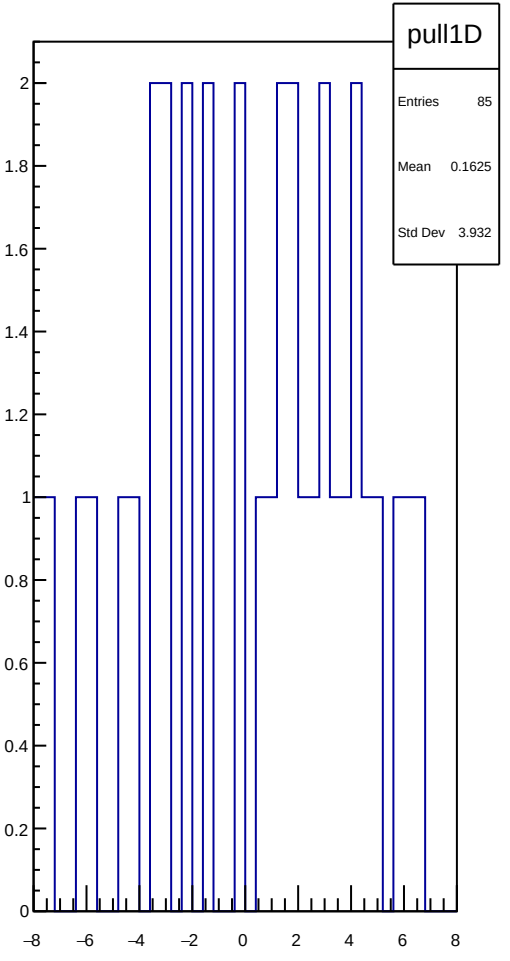

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 7.417e+04 / 84
p0 1.443e+05 ± 0.2788
144.45
144.4
144.35
144.3
144.25
144.2
144.15
144.1
pull
Entries 85
Mean −1460
Std Dev 0
60
40
20
0
−20
−40
−60
−80

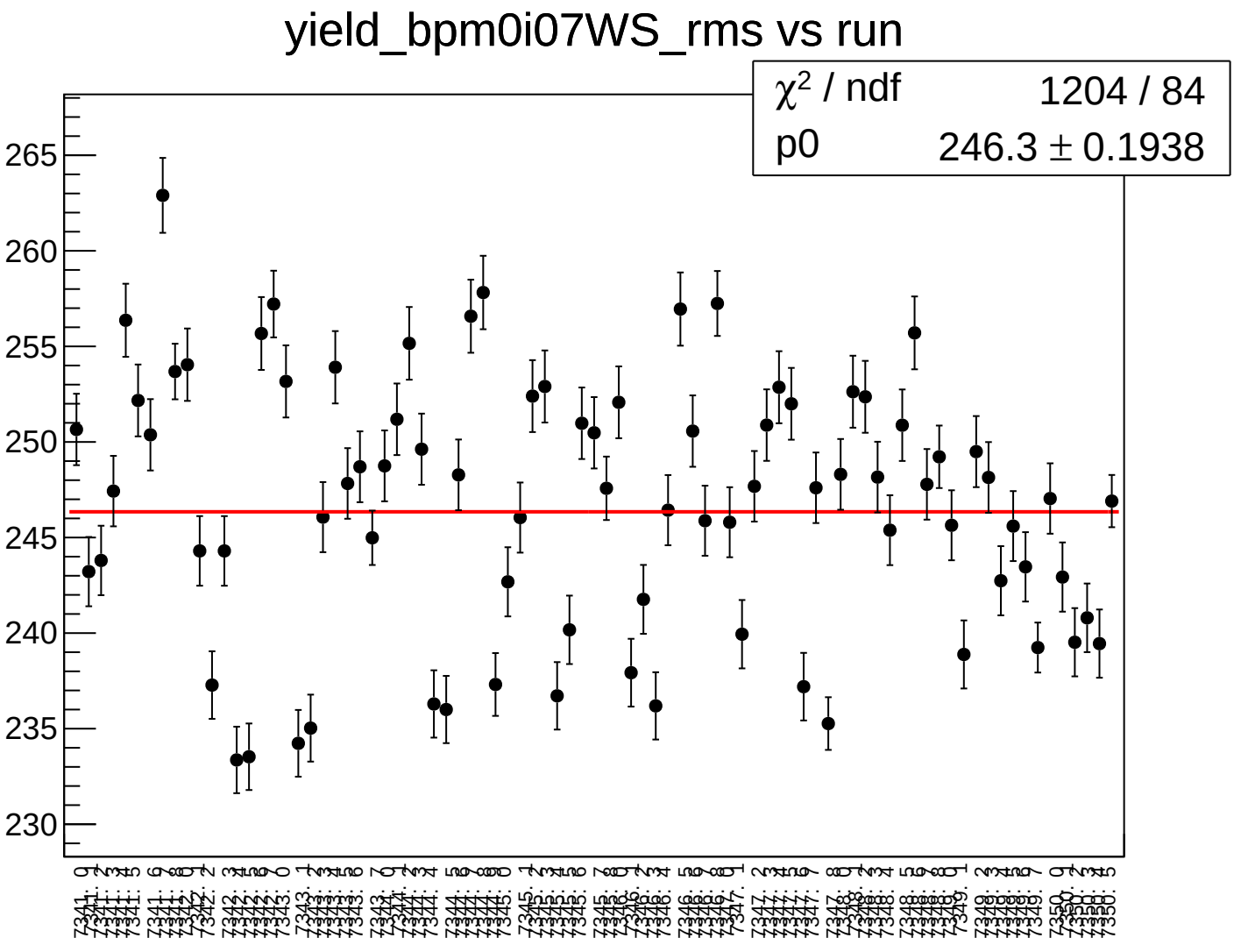

pull1D
Entries 85
Mean 0.1262
Std Dev 4.624
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

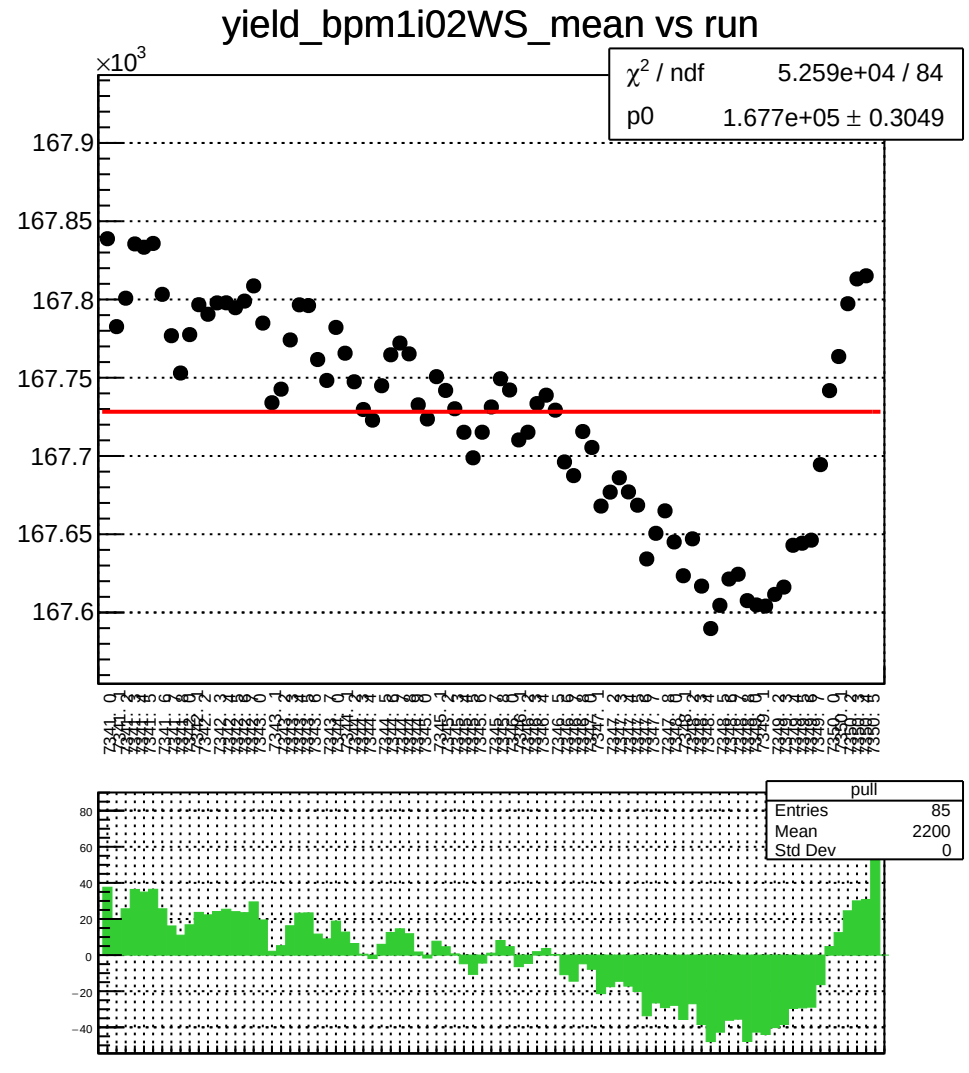

yield_bpm0i05WS_rms vs run
χ² / ndf 1122 / 84
p0 250.5 ± 0.1971
265
260
255
250
245
240
235

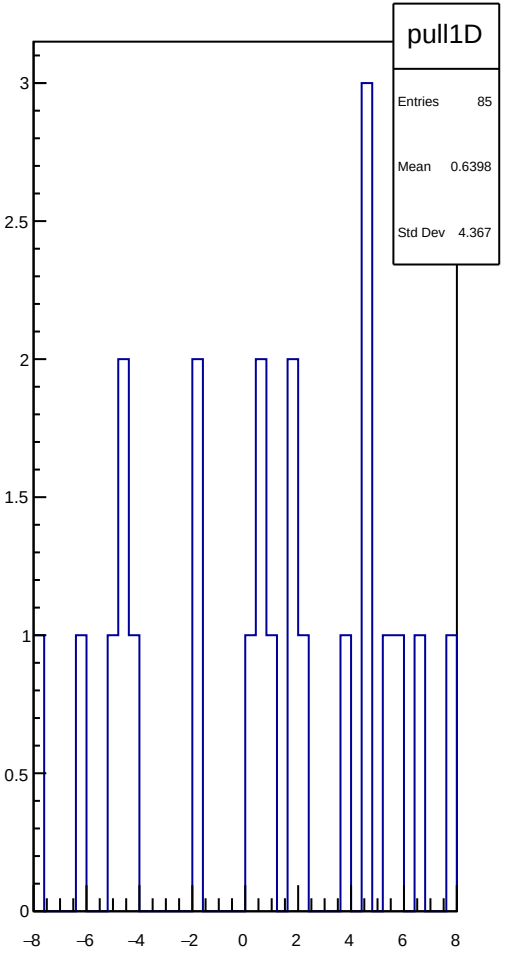

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.025e+04 / 84
p0 1.406e+05 ± 0.2741
140.7
140.65
140.6
140.55
140.5

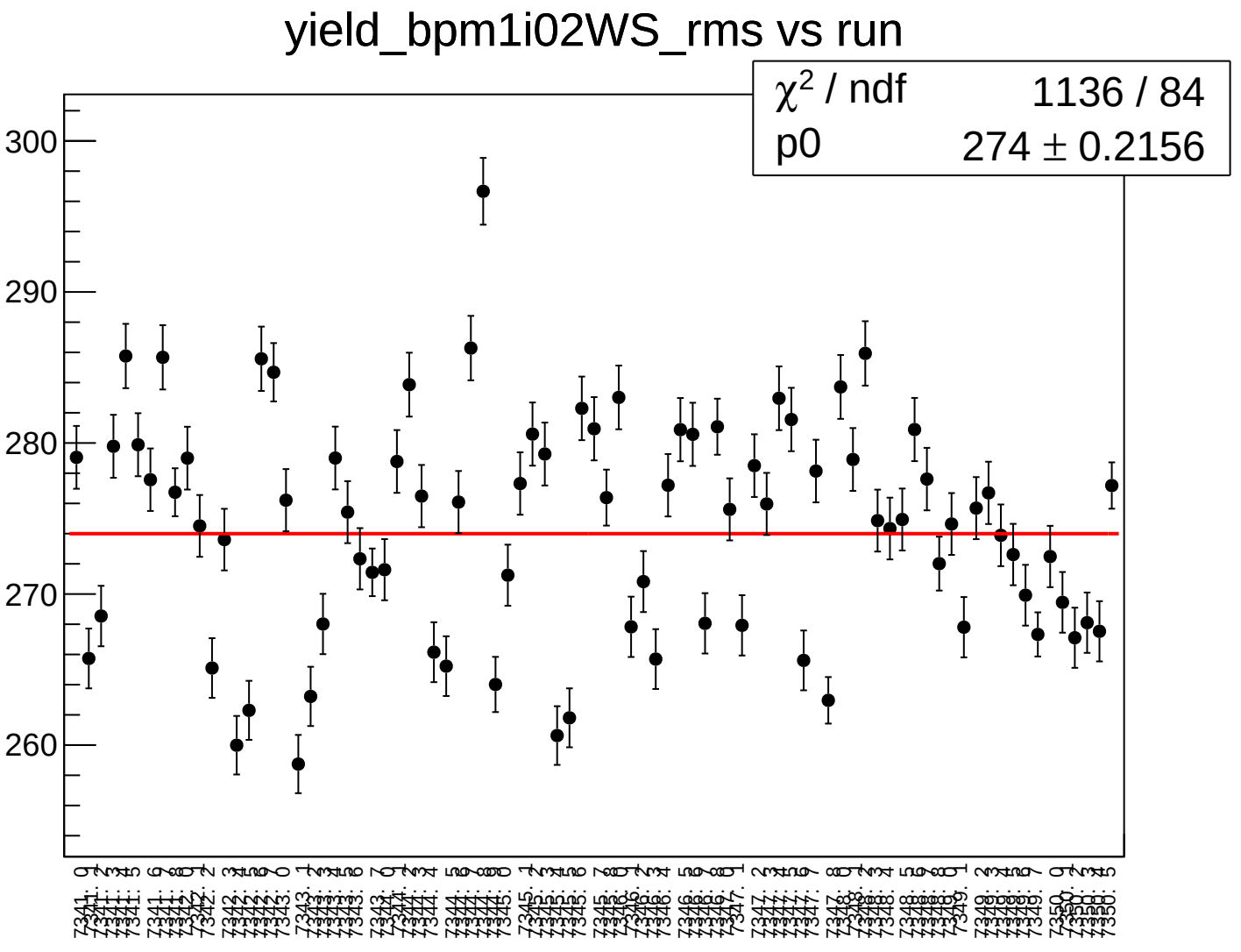

pull
Entries 85
Mean −390.8
Std Dev 0
50
40
30
20
10
0
−10
−20
−30

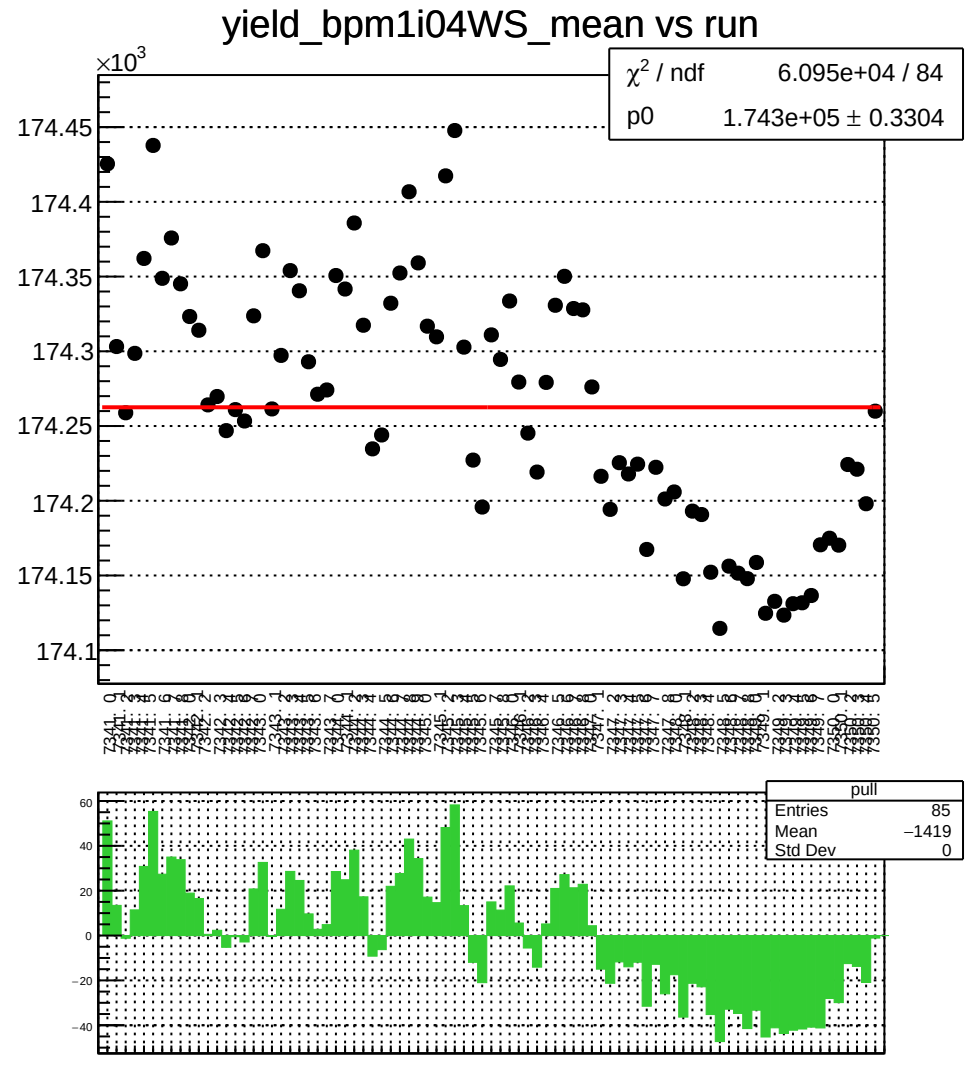

pull1D
Entries 85
Mean 0.1625
Std Dev 3.932
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

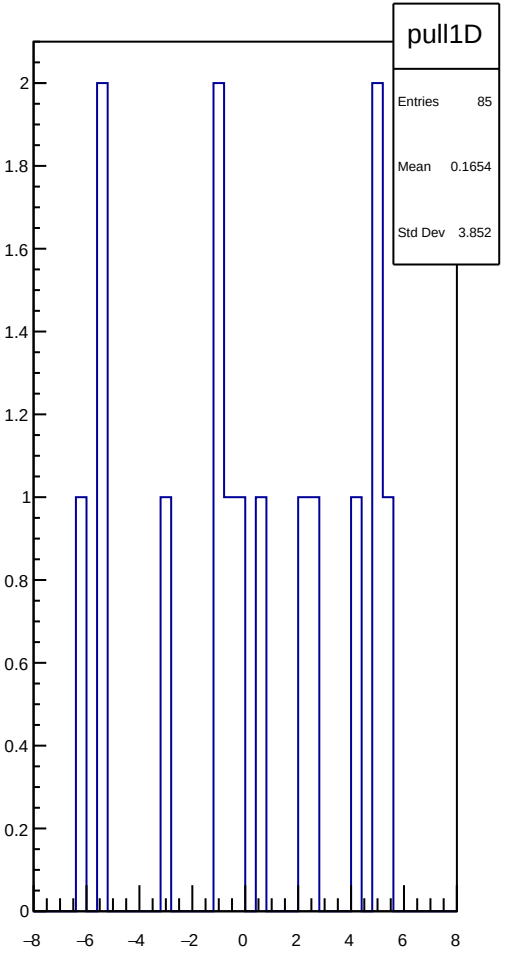

yield_bpm0i07WS_rms vs run
χ² / ndf 1204 / 84
p0 246.3 ± 0.1938
265
260
255
250
245
240
235
230

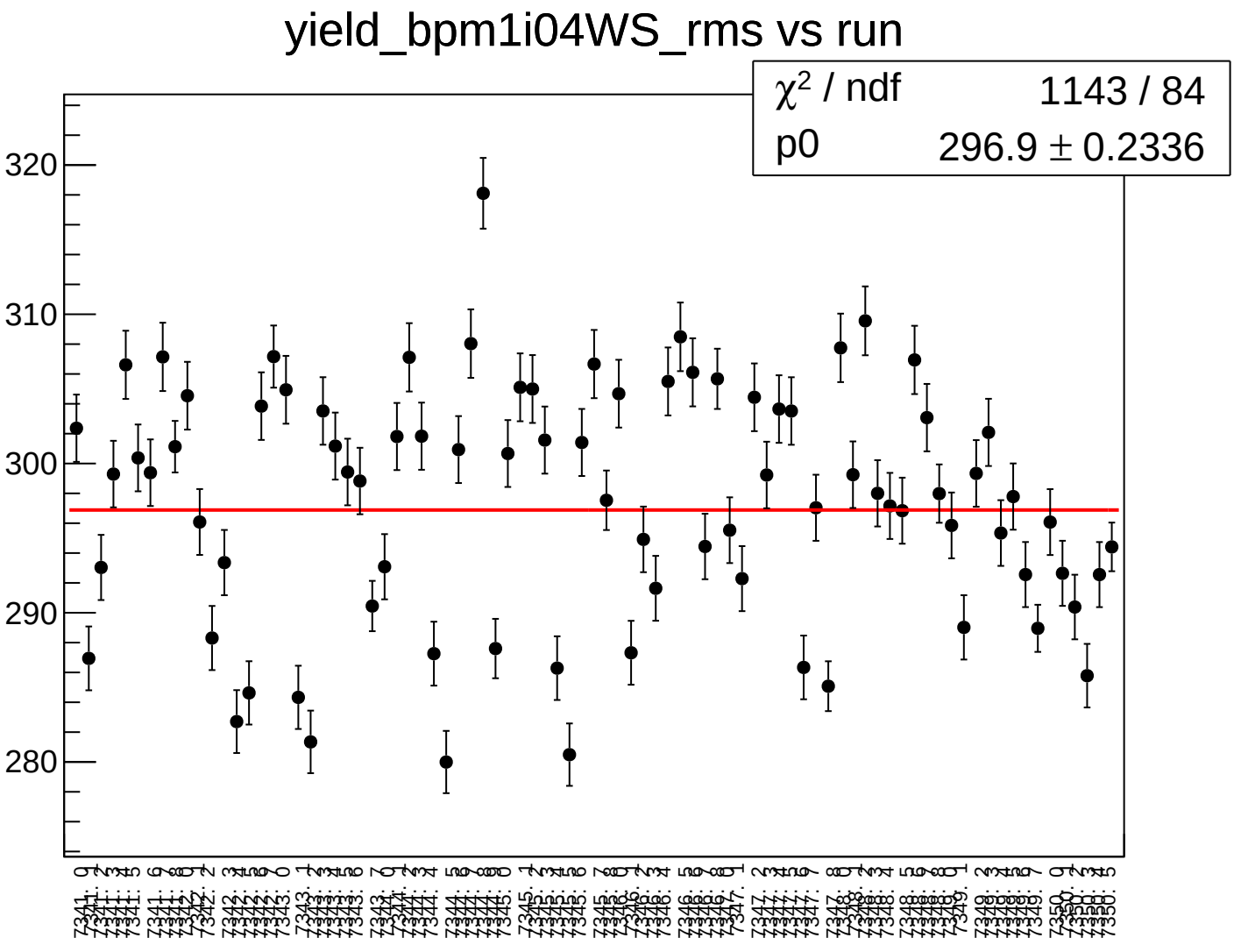

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 5.259e+04 / 84
p0 1.677e+05 ± 0.3049
167.9
167.85
167.8
167.75
167.7
167.65
167.6
pull
Entries 85
Mean 2200
Std Dev 0
80
60
40
20
0
−20
−40

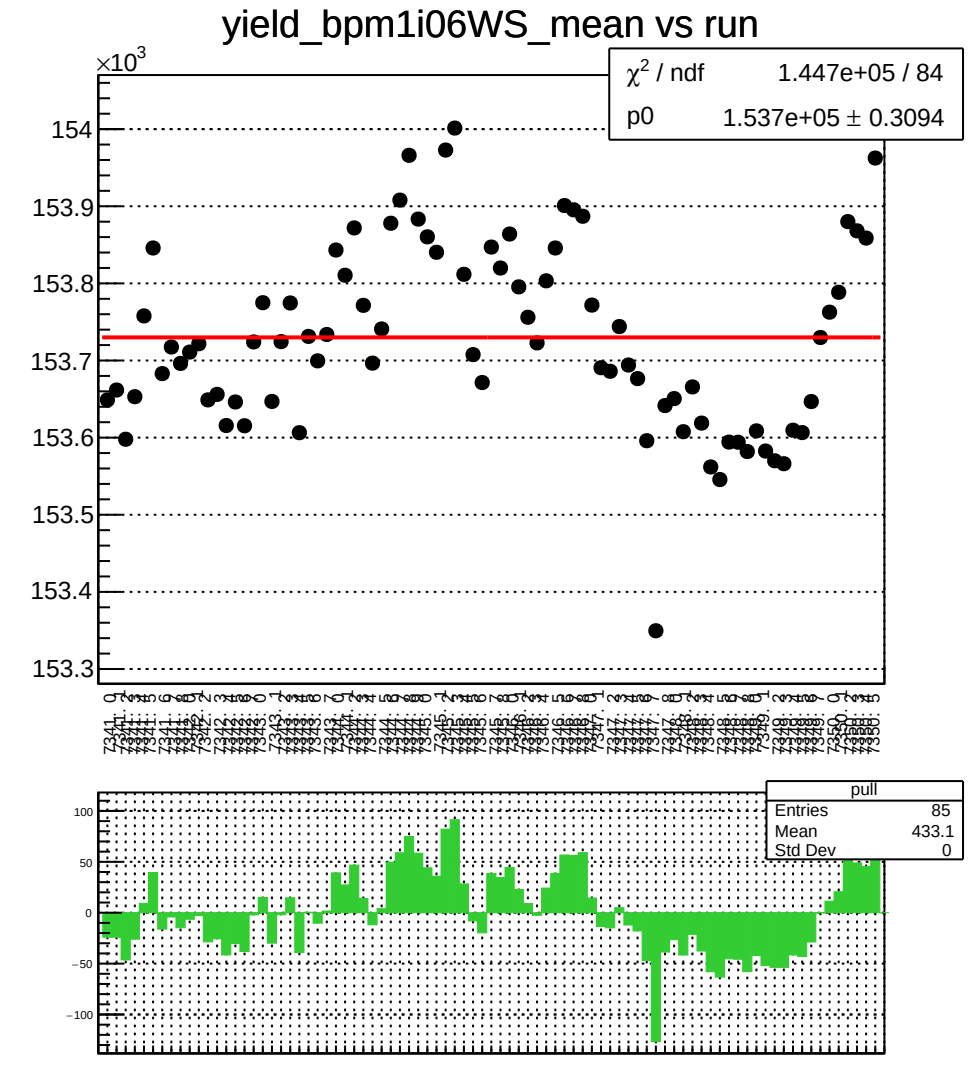

pull1D
Entries 85
Mean 0.6398
Std Dev 4.367
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

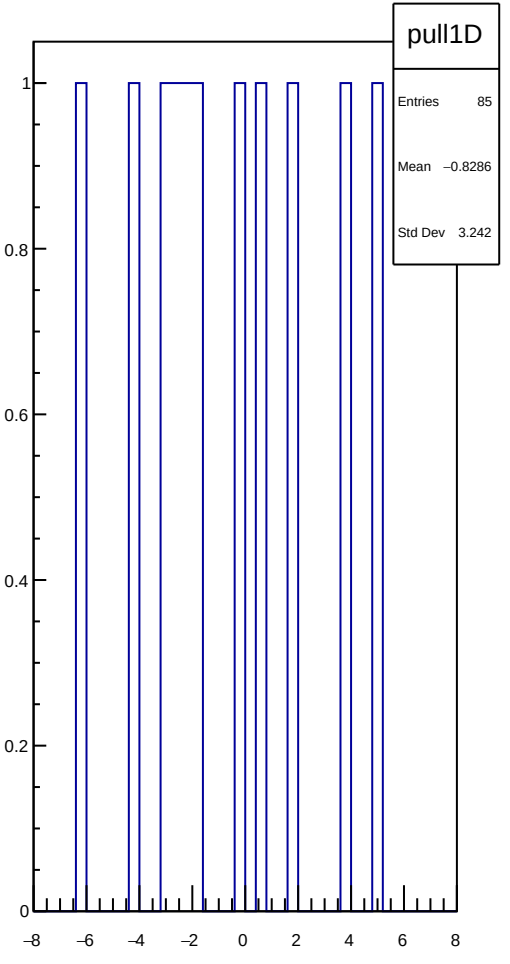

yield_bpm1i02WS_rms vs run
χ² / ndf 1136 / 84
p0 274 ± 0.2156
300
290
280
270
260

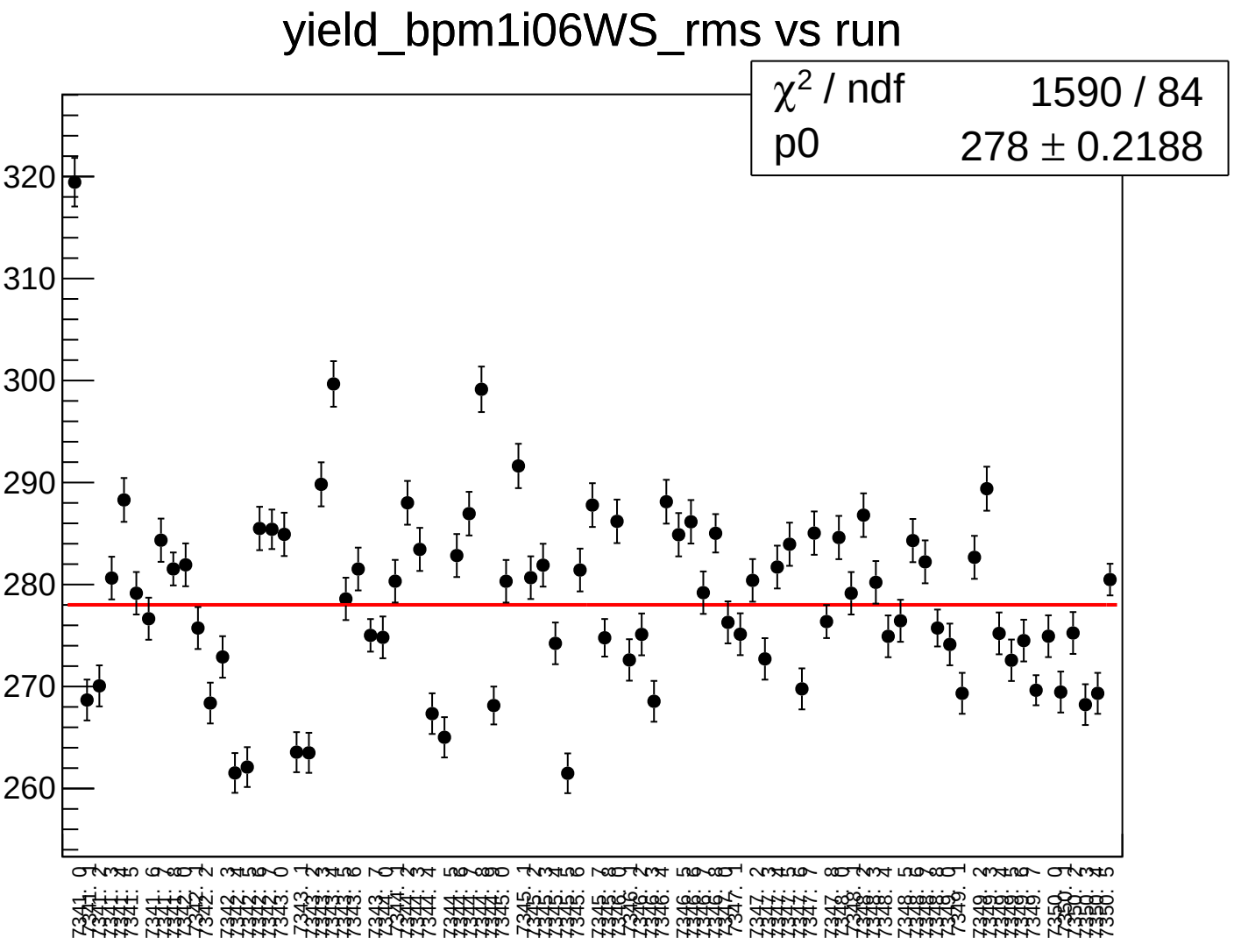

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 6.095e+04 / 84
p0 1.743e+05 ± 0.3304
174.45
174.4
174.35
174.3
174.25
174.2
174.15
174.1
pull
Entries 85
Mean −1419
Std Dev 0
60
40
20
0
−20
−40

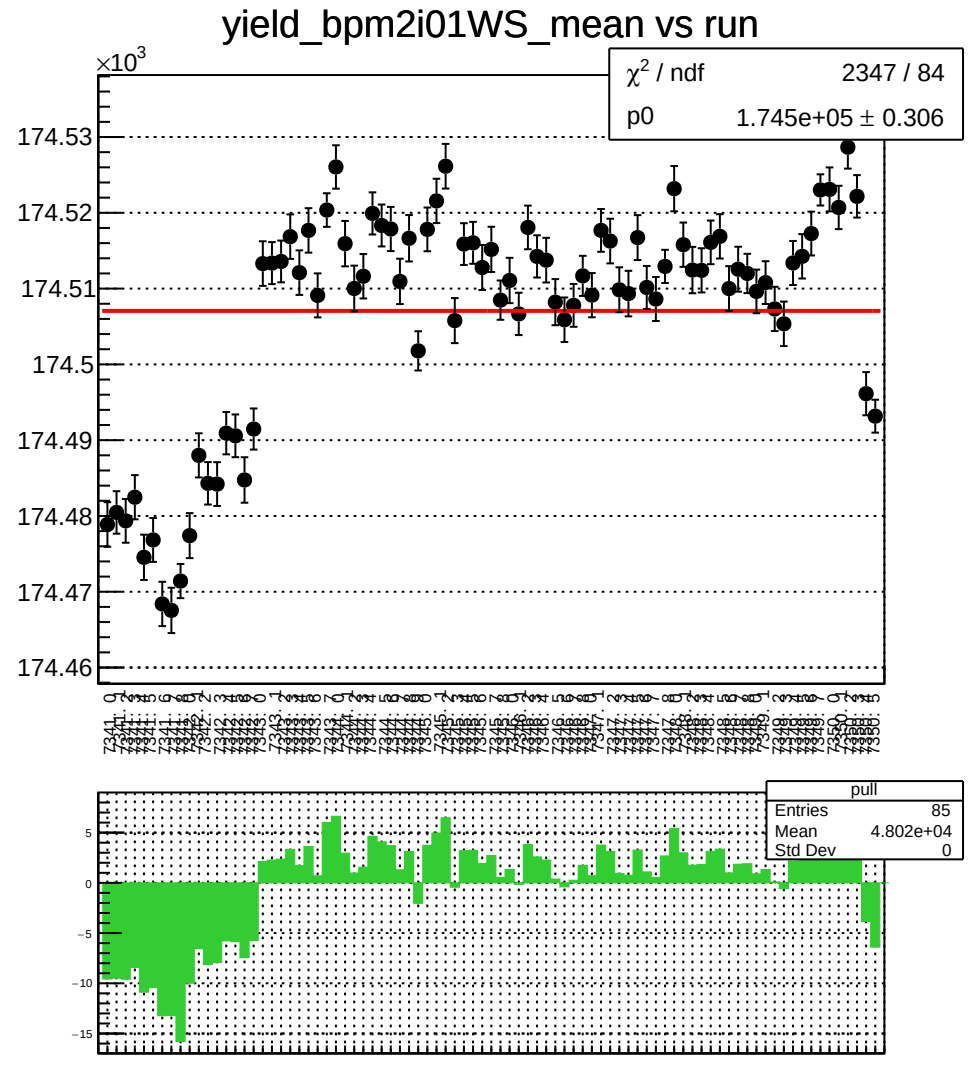

pull1D
Entries 85
Mean 0.1654
Std Dev 3.852
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

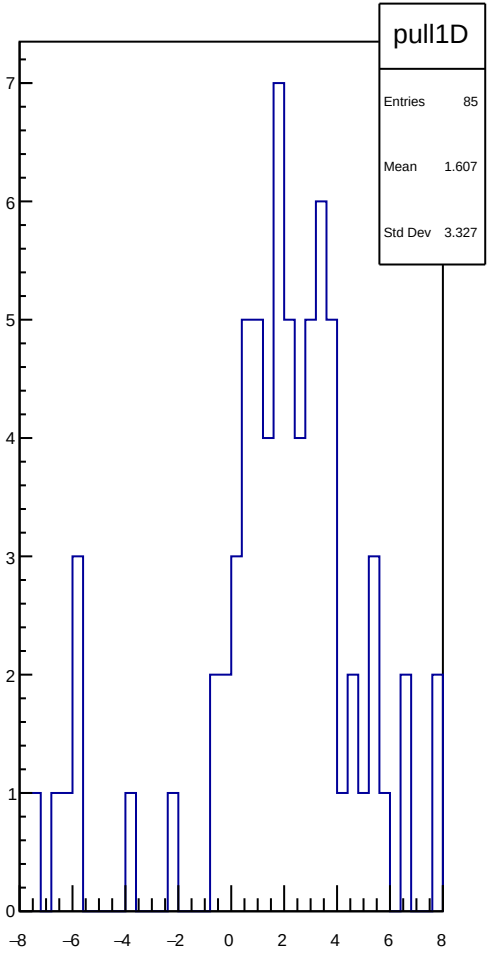

yield_bpm1i04WS_rms vs run
χ² / ndf 1143 / 84
p0 296.9 ± 0.2336
320
310
300
290
280

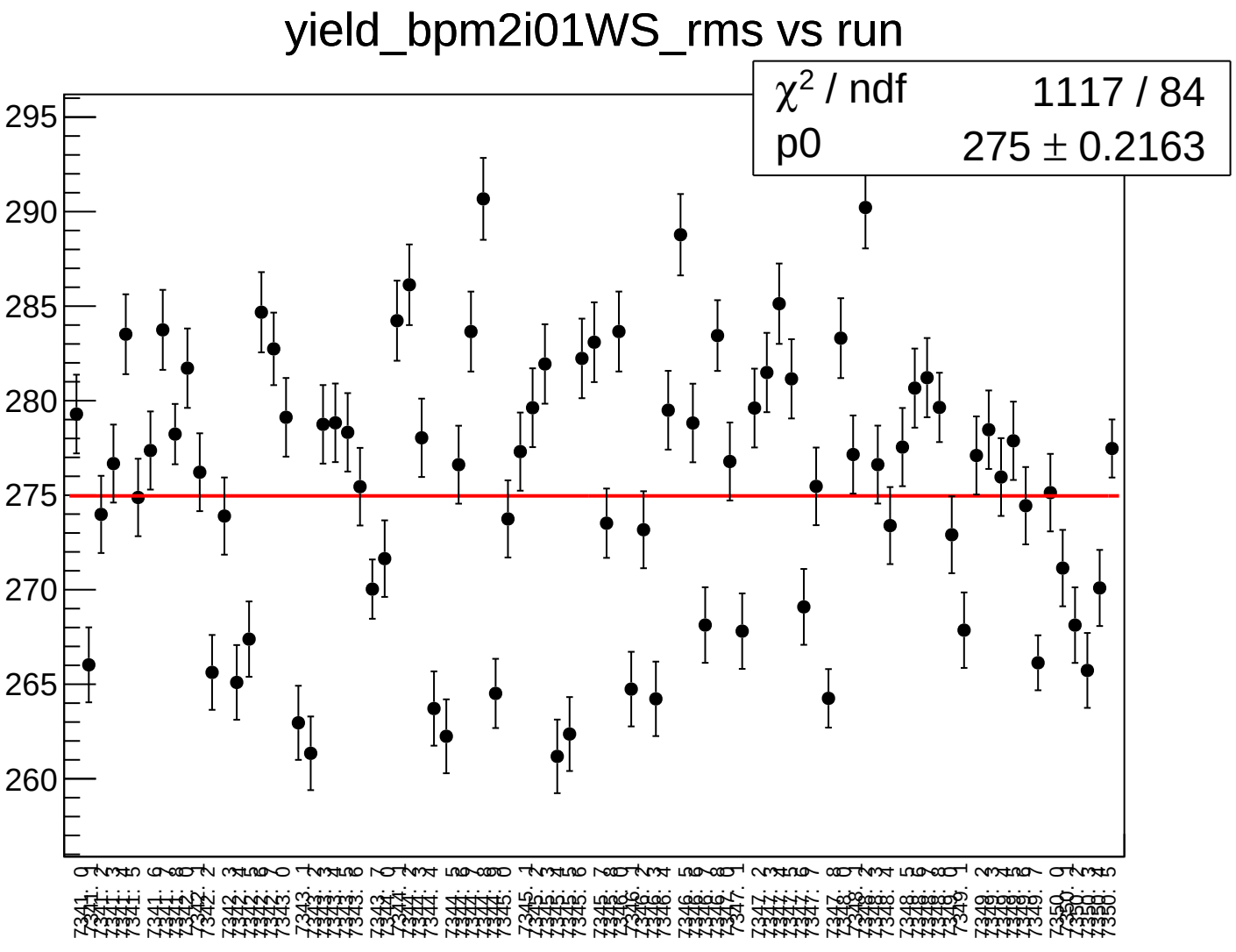

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.447e+05 / 84
p0 1.537e+05 ± 0.3094
154
153.9
153.8
153.7
153.6
153.5
153.4
153.3
pull
Entries 85
Mean 433.1
Std Dev 0
100
50
0
−50
−100

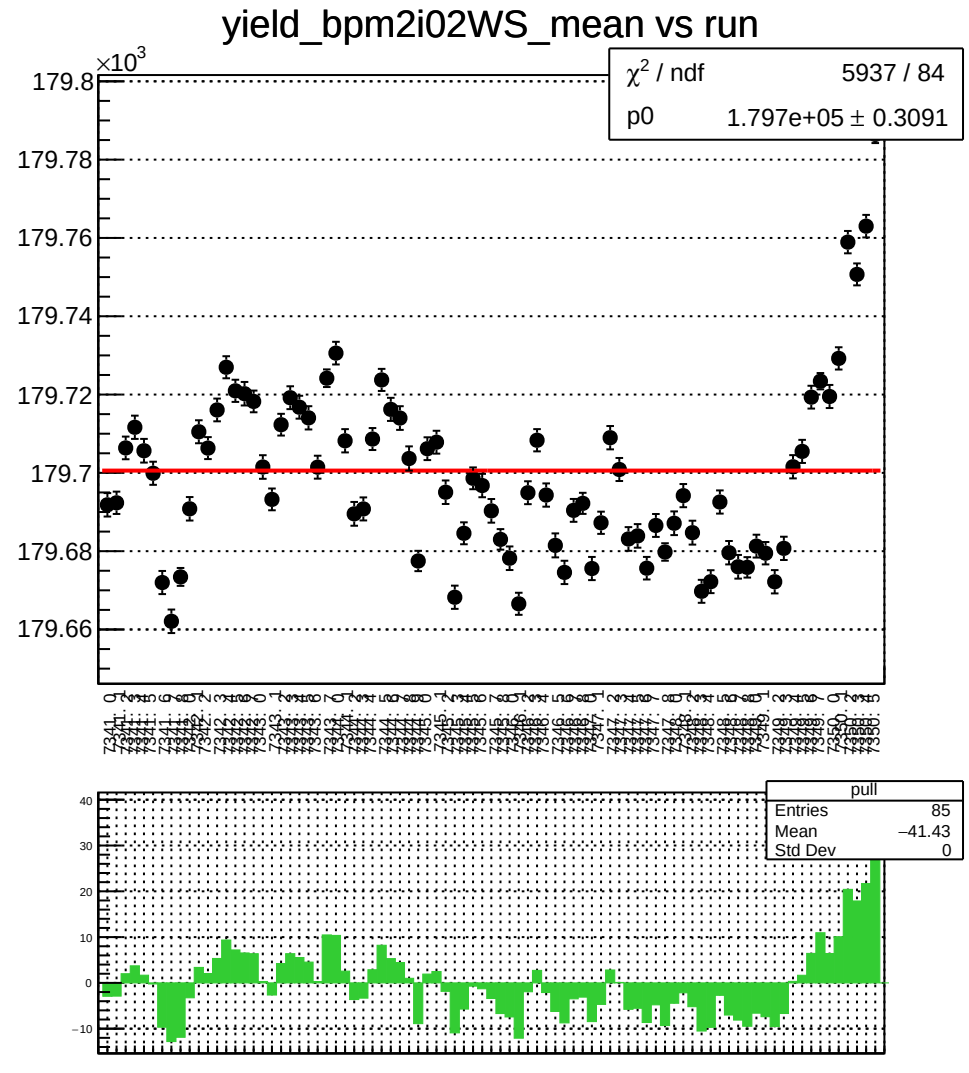

pull1D
Entries 85
Mean −0.8286
Std Dev 3.242
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

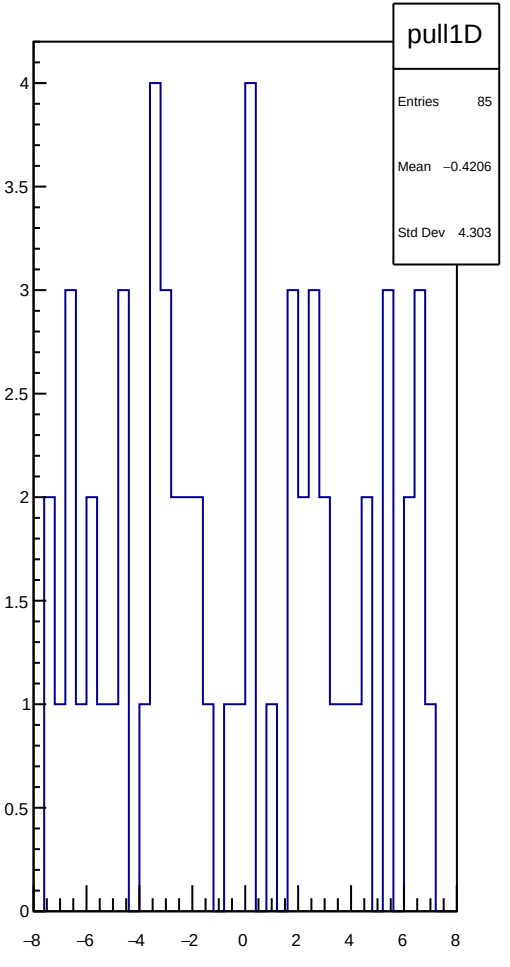

yield_bpm1i06WS_rms vs run
χ² / ndf 1590 / 84
p0 278 ± 0.2188
320
310
300
290
280
270
260

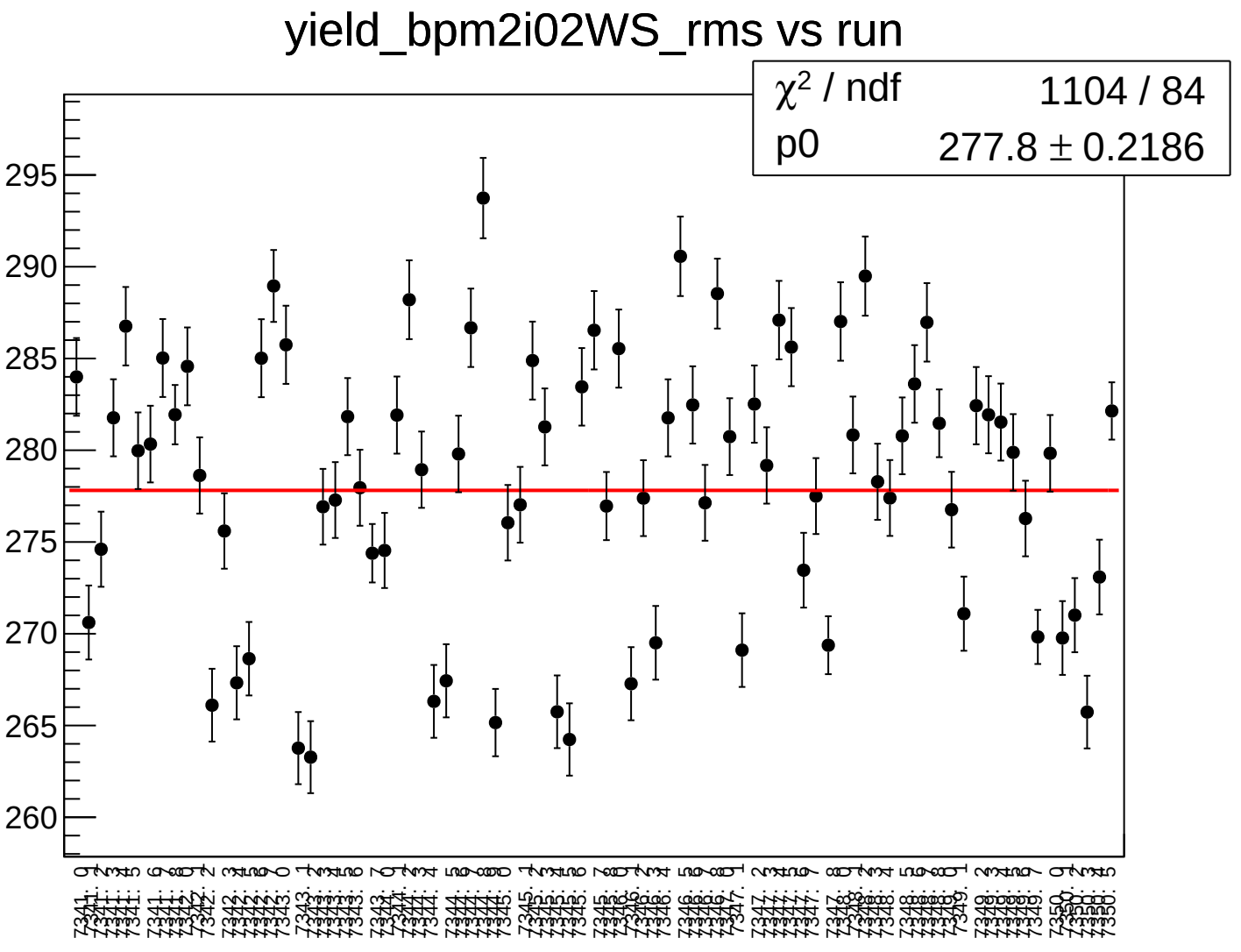

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2347 / 84
p0 1.745e+05 ± 0.306
174.53
174.52
174.51
174.5
174.49
174.48
174.47
174.46
pull
Entries 85
Mean 4.802e+04
Std Dev 0
5
0
−5
−10
−15

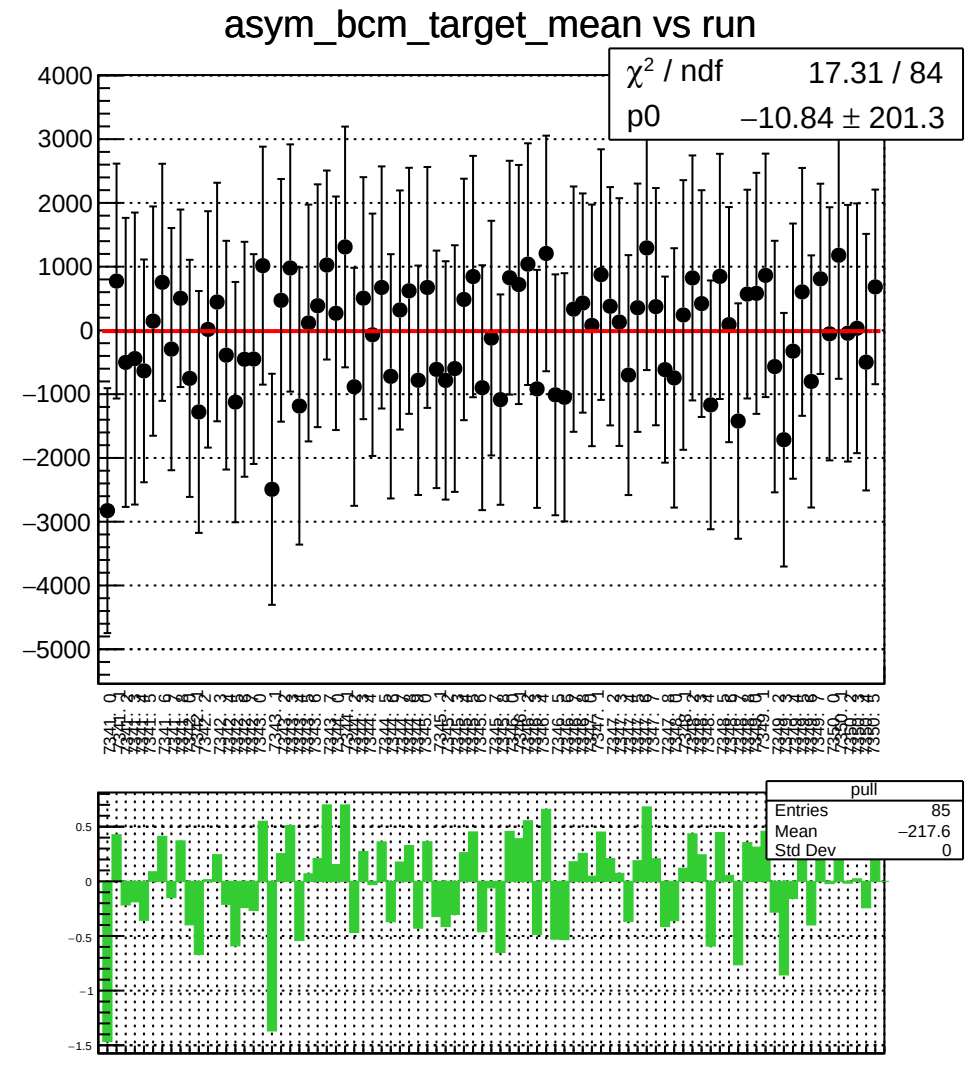

pull1D
Entries 85
Mean 1.607
Std Dev 3.327
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

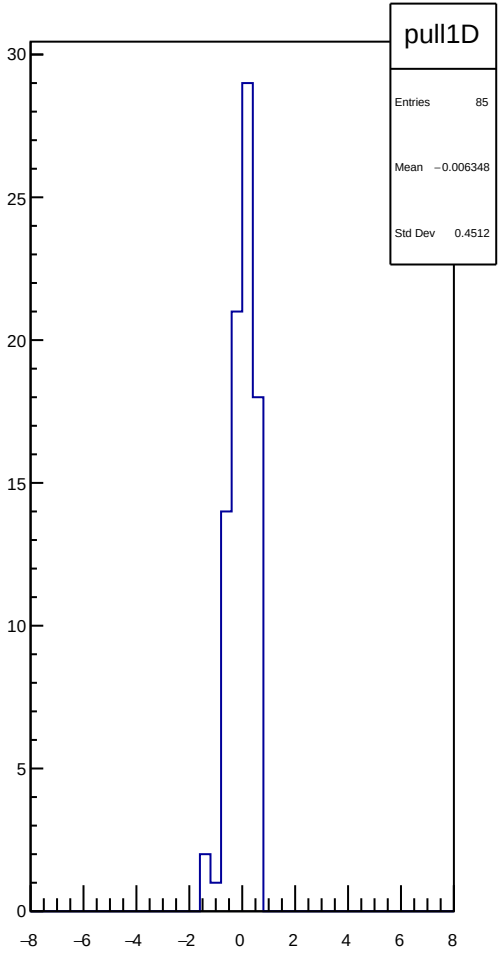

yield_bpm2i01WS_rms vs run
χ^2 / ndf 1117 / 84
p0 275 ± 0.2163
295
290
285
280
275
270
265
260

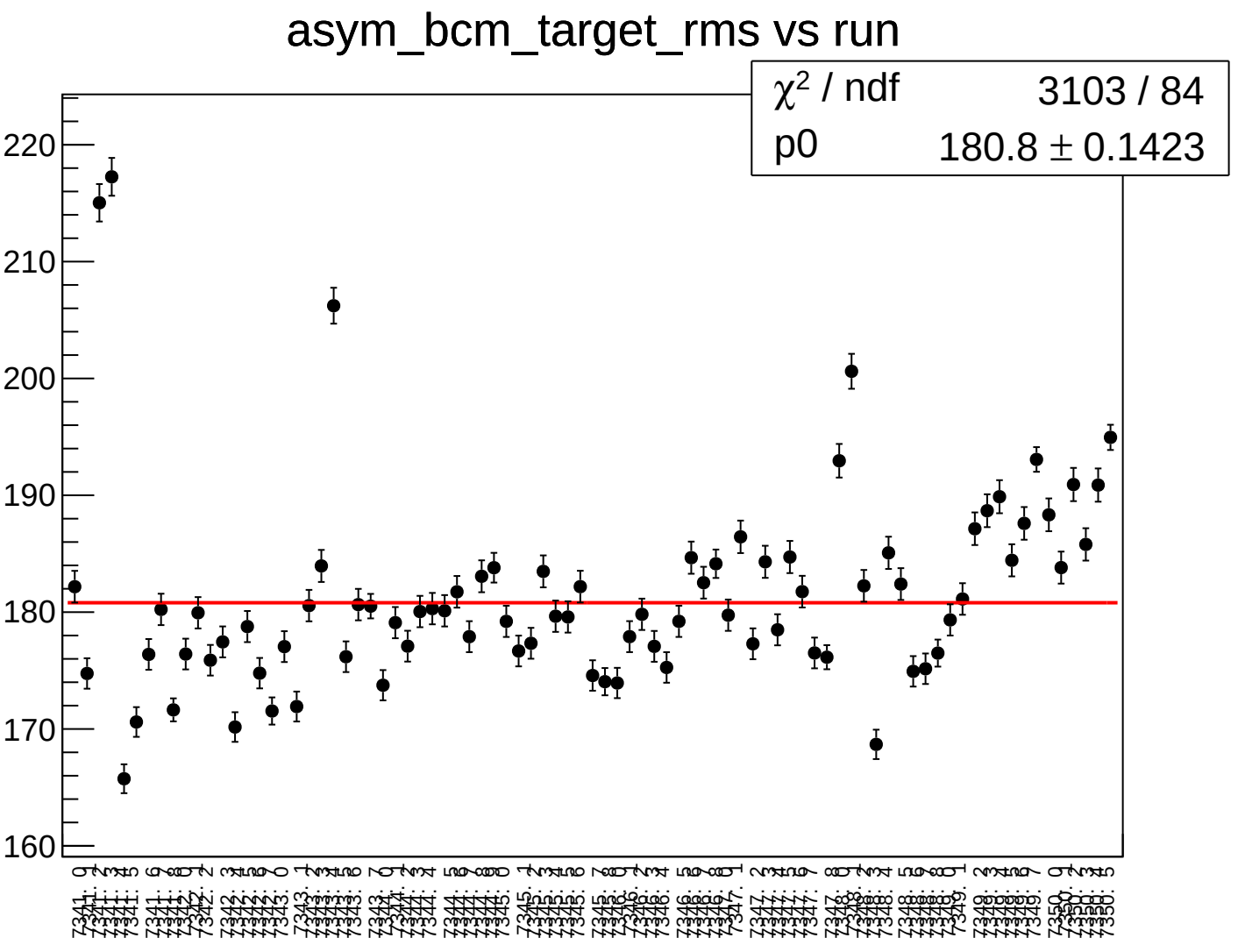

yield_bpm2i02WS_mean vs run
×10^3
179.8
179.78
179.76
179.74
179.72
179.7
179.68
179.66
χ² / ndf 5937 / 84
p0 1.797e+05 ± 0.3091
pull
Entries 85
Mean −41.43
Std Dev 0
40
30
20
10
0
−10

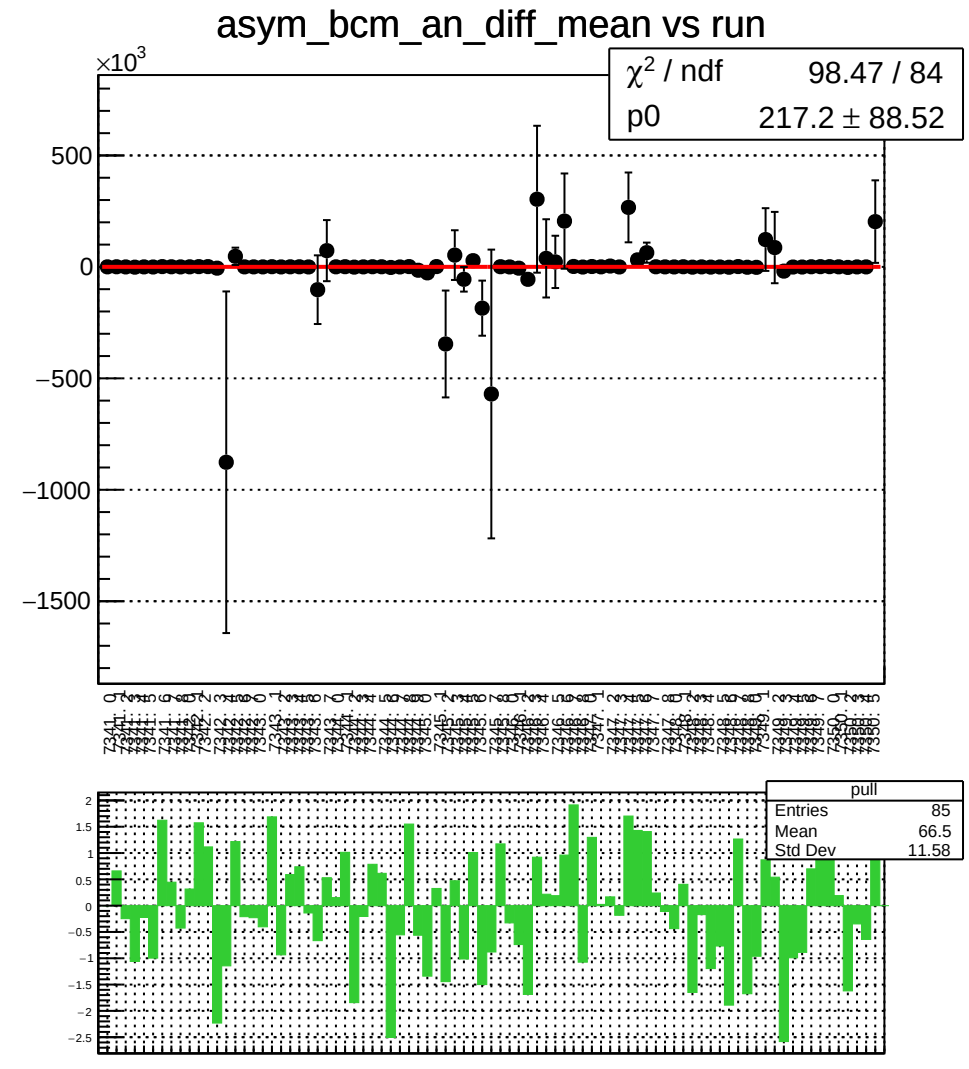

pull1D
Entries 85
Mean −0.4206
Std Dev 4.303
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

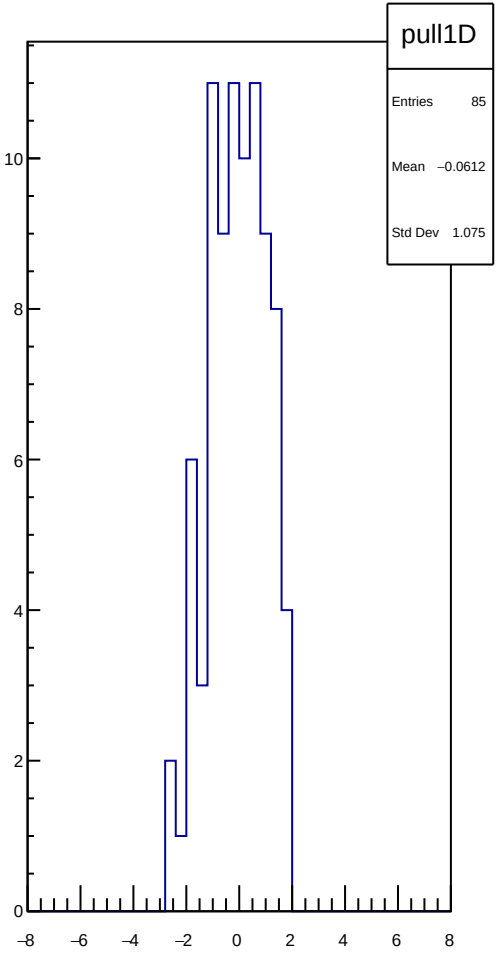

yield_bpm2i02WS_rms vs run
χ² / ndf 1104 / 84
p0 277.8 ± 0.2186
295
290
285
280
275
270
265
260

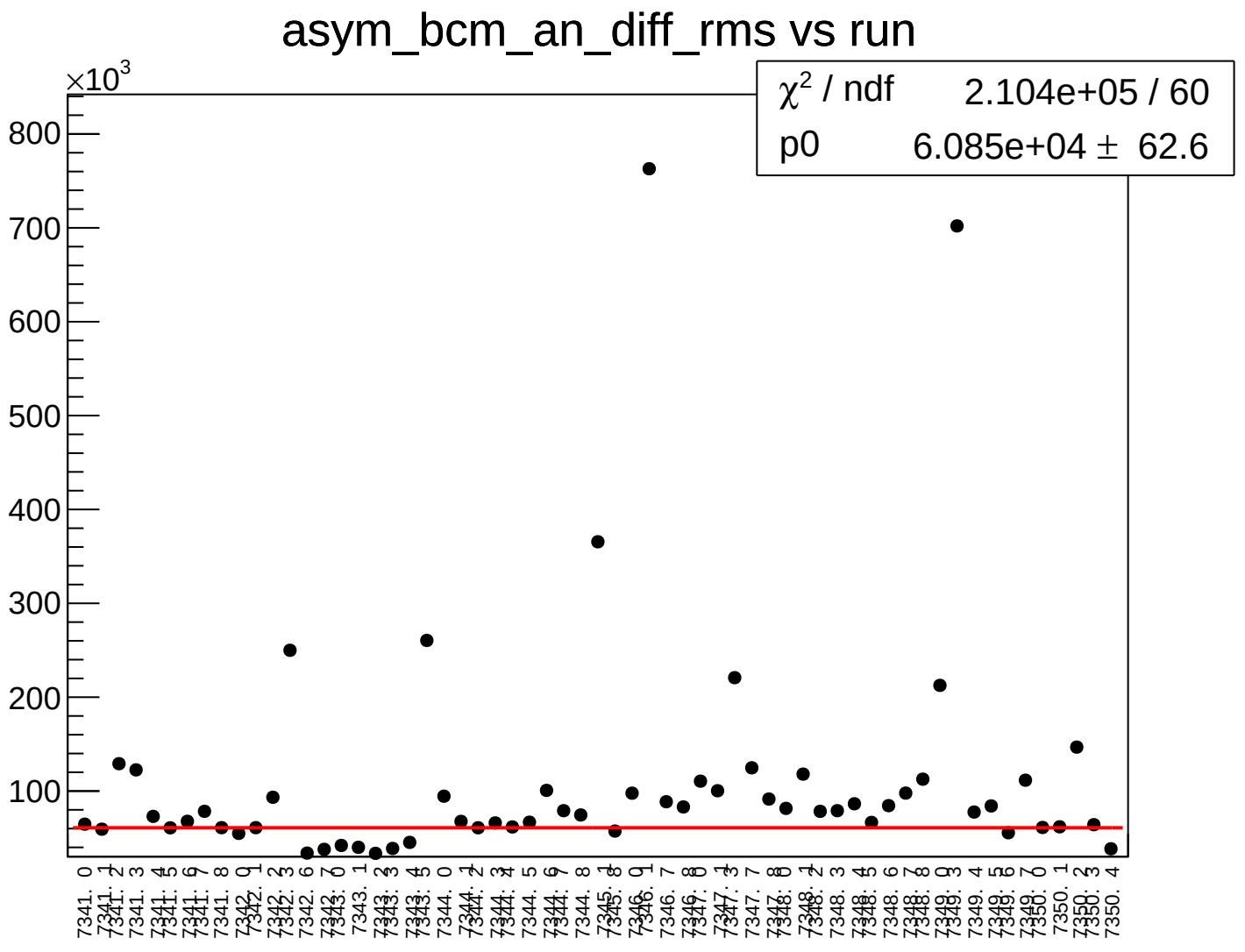

asym_bcm_target_mean vs run
χ² / ndf 17.31 / 84
p0 −10.84 ± 201.3
pull
Entries 85
Mean −217.6
Std Dev 0

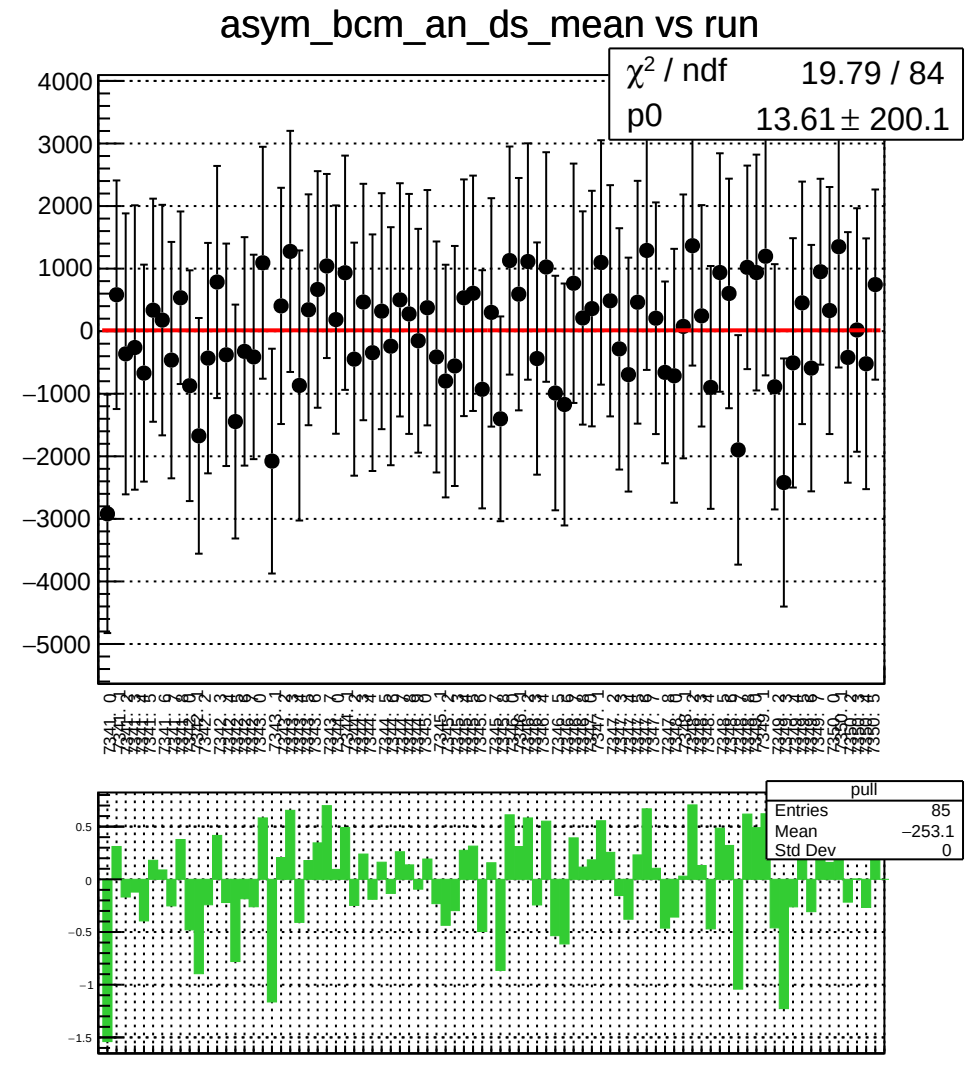

pull1D
Entries 85
Mean −0.006348
Std Dev 0.4512

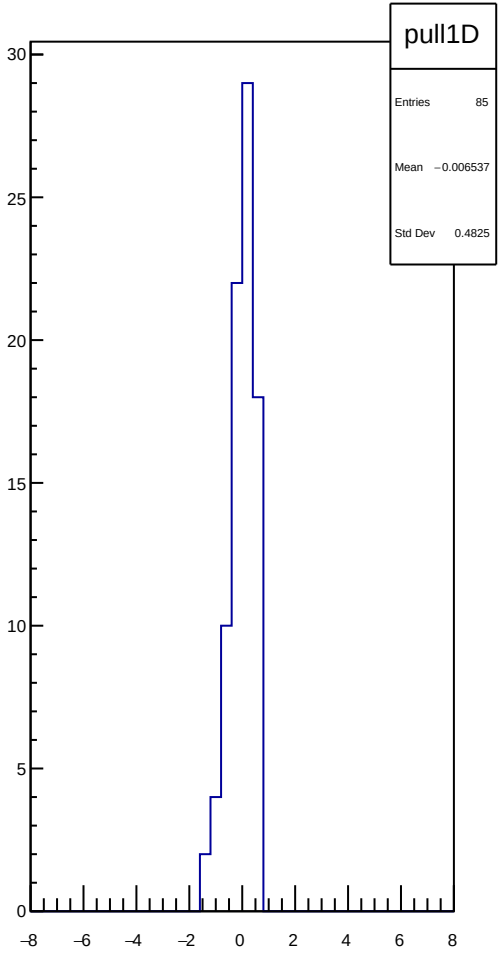

asym_bcm_target_rms vs run
χ² / ndf 3103 / 84
p0 180.8 ± 0.1423
220
210
200
190
180
170
160

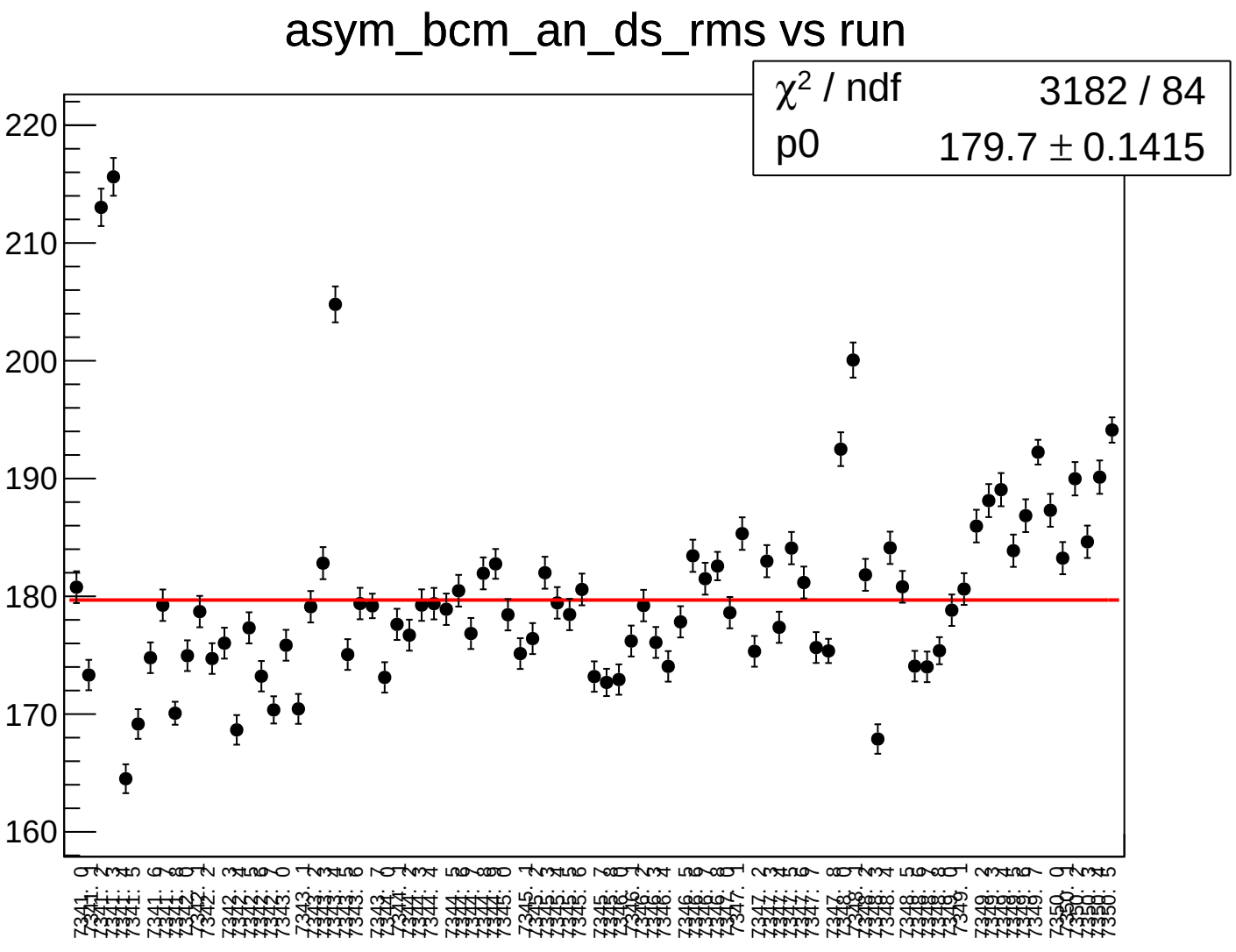

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 98.47 / 84
p0 217.2 ± 88.52
500
0
−500
−1000
−1500
pull
Entries 85
Mean 66.5
Std Dev 11.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

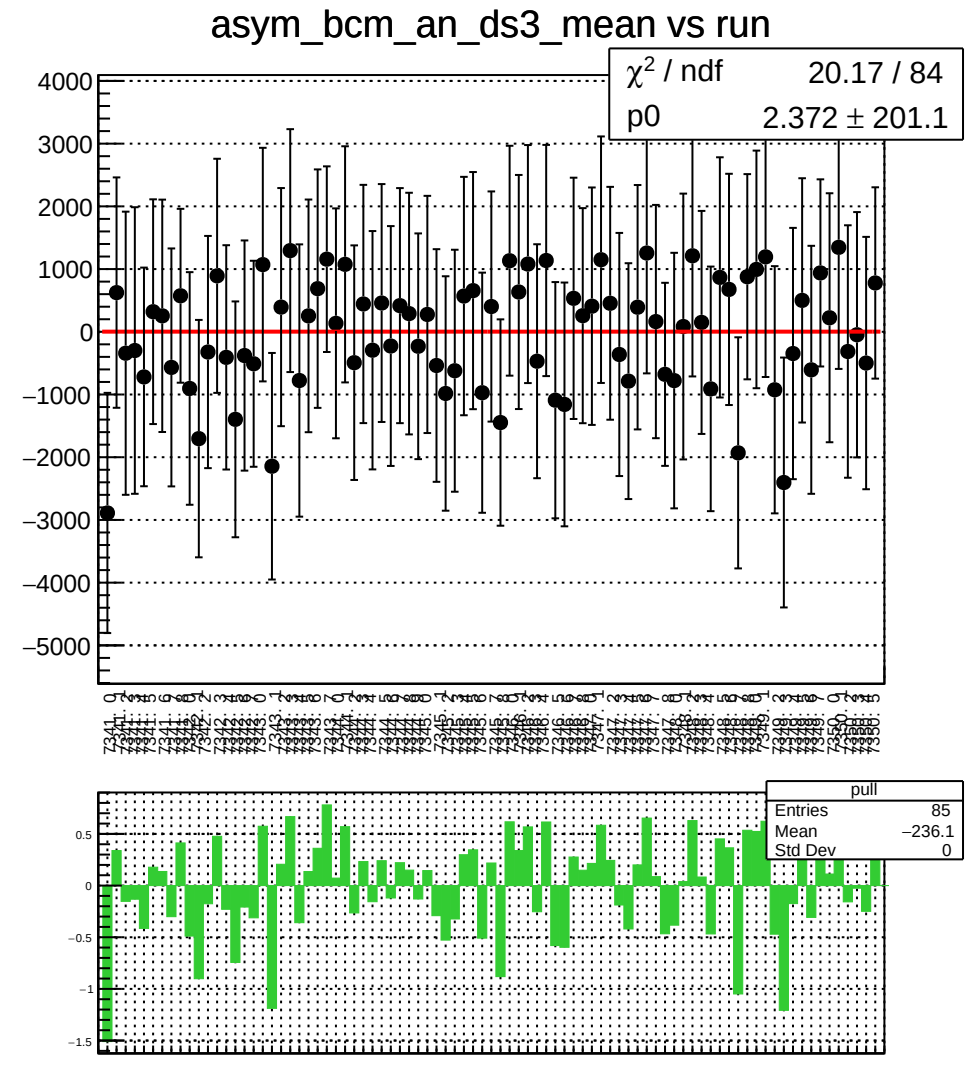

pull1D
Entries 85
Mean −0.0612
Std Dev 1.075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

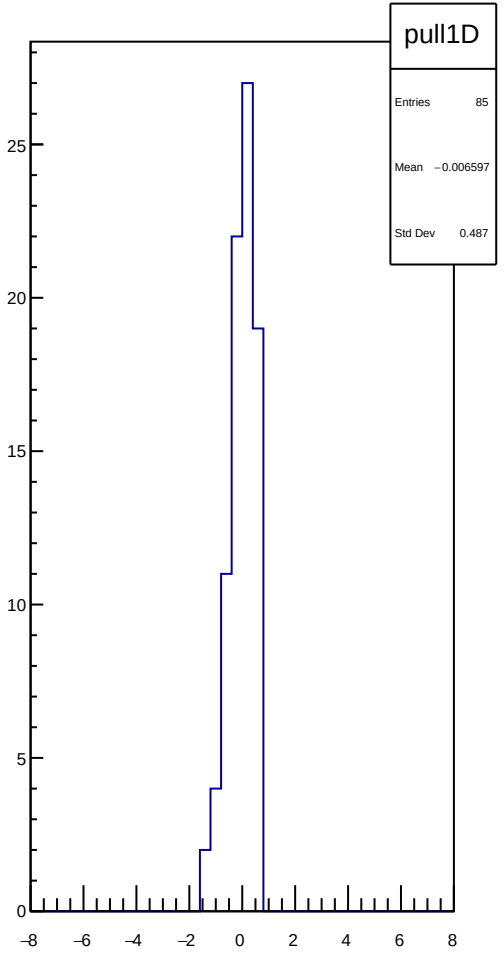

asym_bcm_an_diff_rms vs run
×10^3
χ^2 / ndf 2.104e+05 / 60
p0 6.085e+04 ± 62.6
800
700
600
500
400
300
200
100
7341. 0
7341. 1
7341. 2
7341. 3
7341. 4
7341. 5
7341. 6
7341. 7
7341. 8
7341. 9
7342. 0
7342. 1
7342. 2
7342. 3
7342. 4
7342. 5
7342. 6
7342. 7
7343. 0
7343. 1
7343. 2
7343. 3
7343. 4
7343. 5
7344. 0
7344. 1
7344. 2
7344. 3
7344. 4
7344. 5
7344. 6
7344. 7
7344. 8
7345. 0
7345. 1
7345. 8
7346. 0
7346. 1
7346. 7
7346. 8
7347. 0
7347. 1
7347. 3
7347. 7
7347. 8
7348. 0
7348. 1
7348. 2
7348. 3
7348. 4
7348. 5
7348. 6
7348. 7
7348. 8
7348. 9
7349. 3
7349. 4
7349. 5
7349. 6
7349. 7
7350. 0
7350. 1
7350. 2
7350. 3
7350. 4

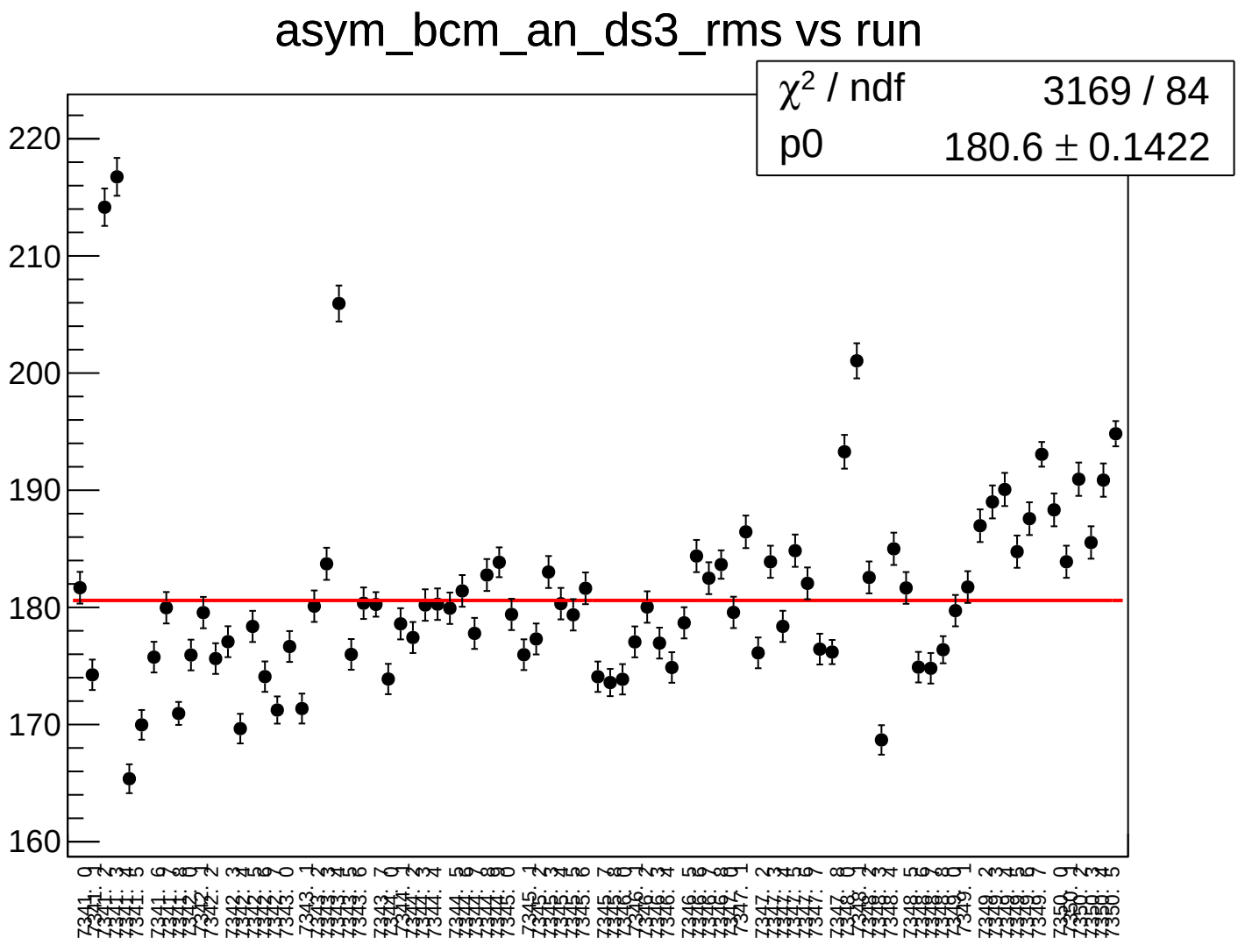

asym_bcm_an_ds_mean vs run
χ² / ndf 19.79 / 84
p0 13.61 ± 200.1
pull
Entries 85
Mean −253.1
Std Dev 0

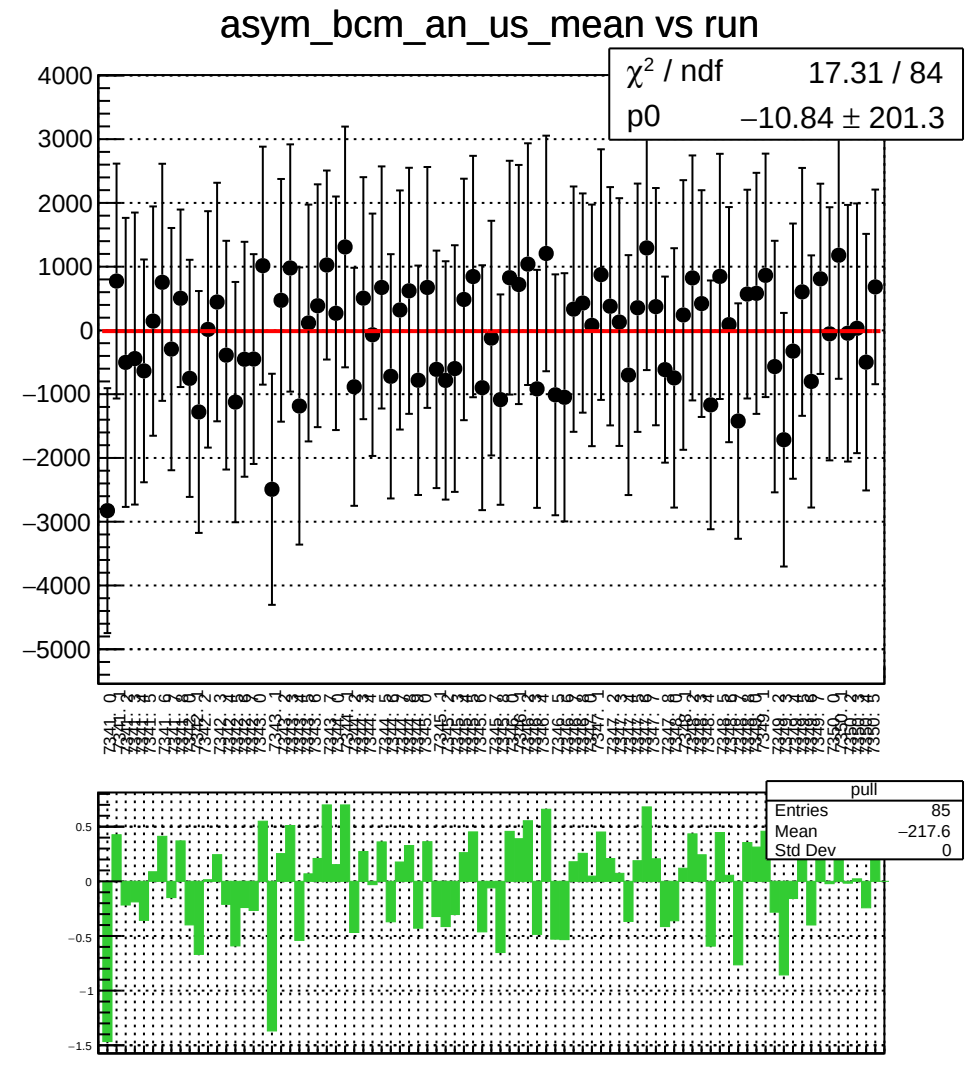

pull1D
Entries 85
Mean −0.006537
Std Dev 0.4825

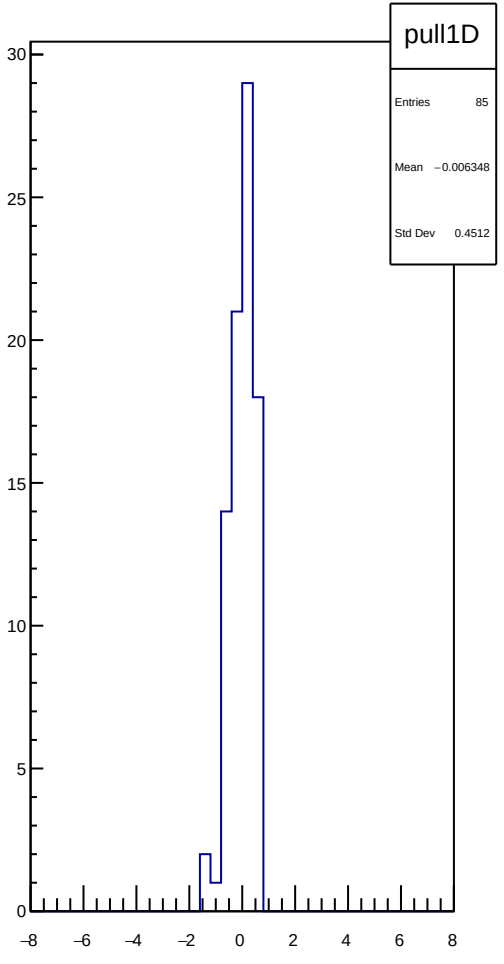

asym_bcm_an_ds_rms vs run
χ² / ndf 3182 / 84
p0 179.7 ± 0.1415
220
210
200
190
180
170
160

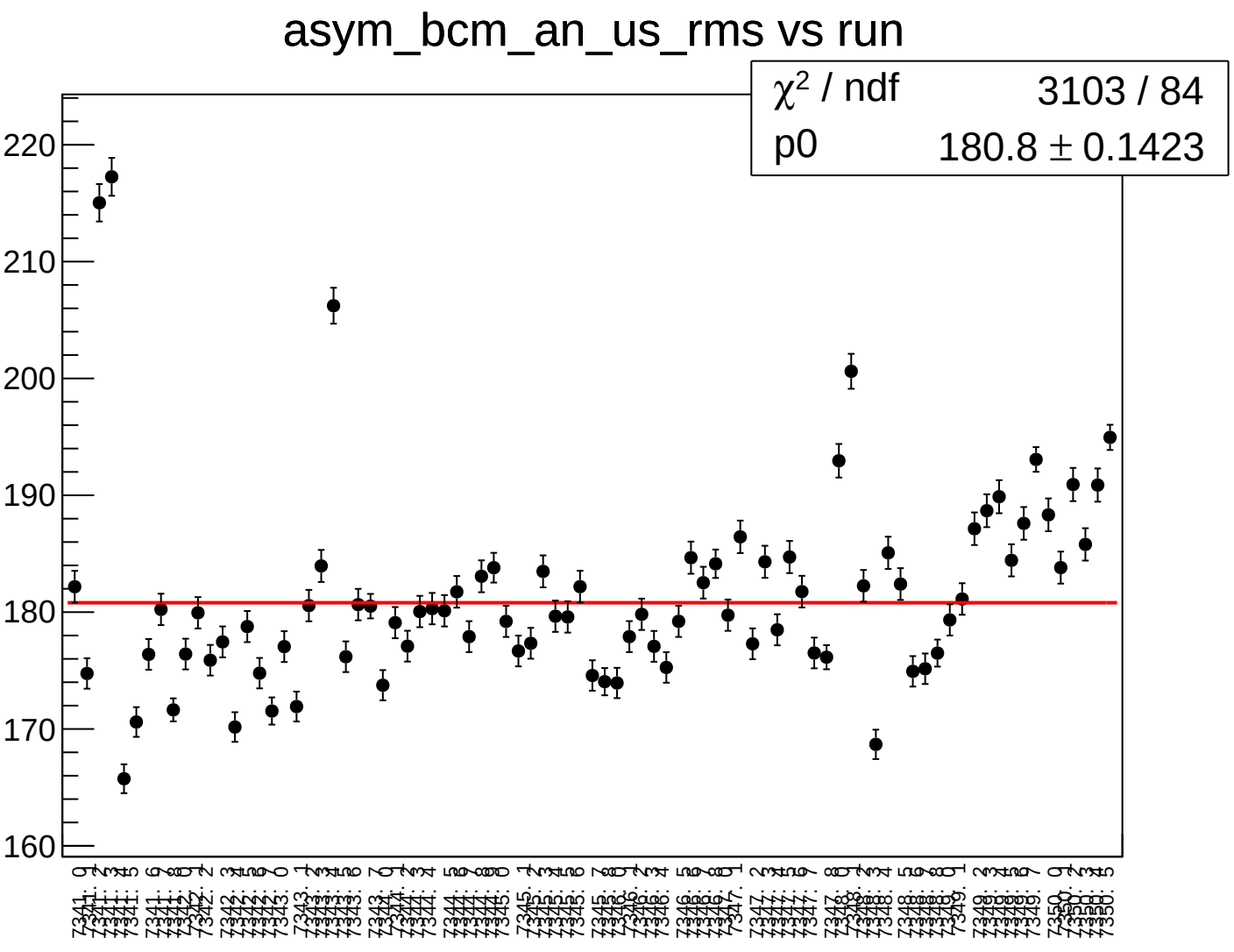

asym_bcm_an_ds3_mean vs run
χ² / ndf 20.17 / 84
p0 2.372 ± 201.1
pull
Entries 85
Mean −236.1
Std Dev 0

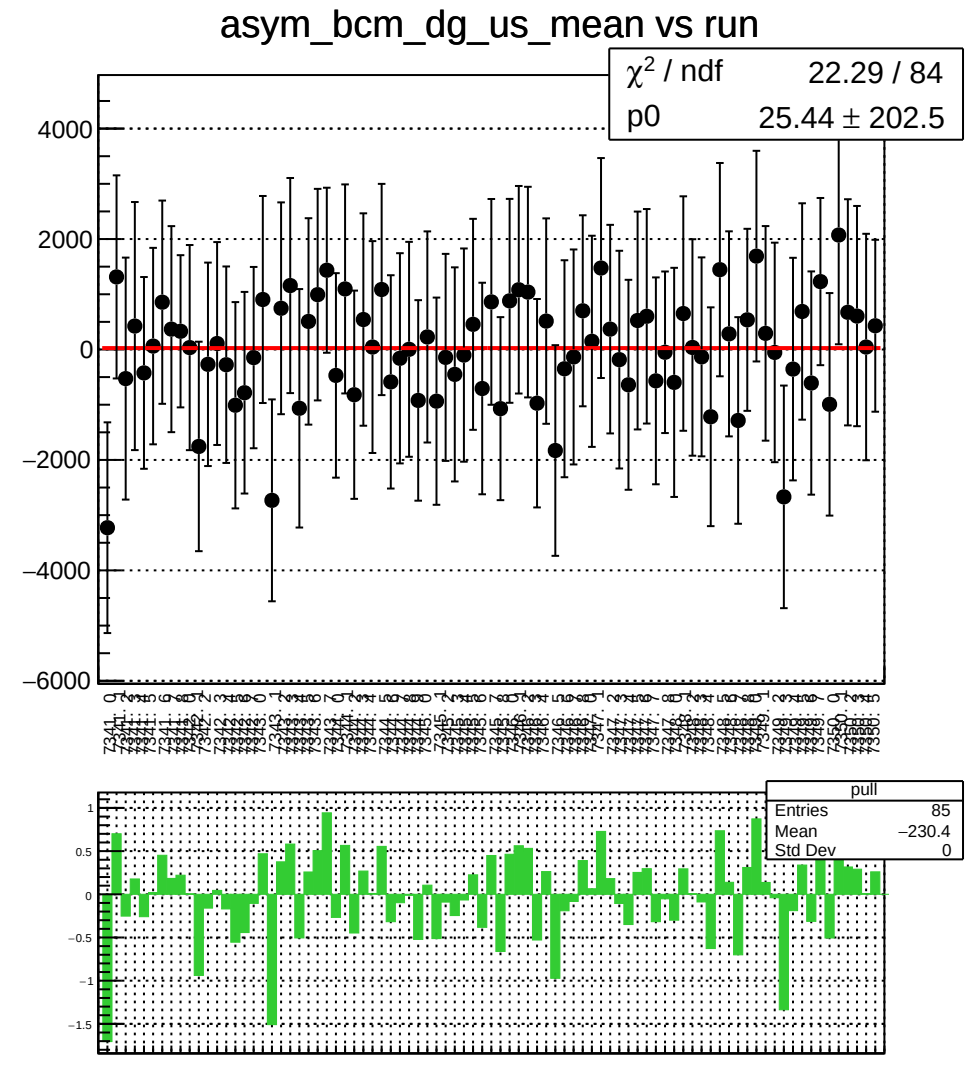

pull1D
Entries 85
Mean −0.006597
Std Dev 0.487

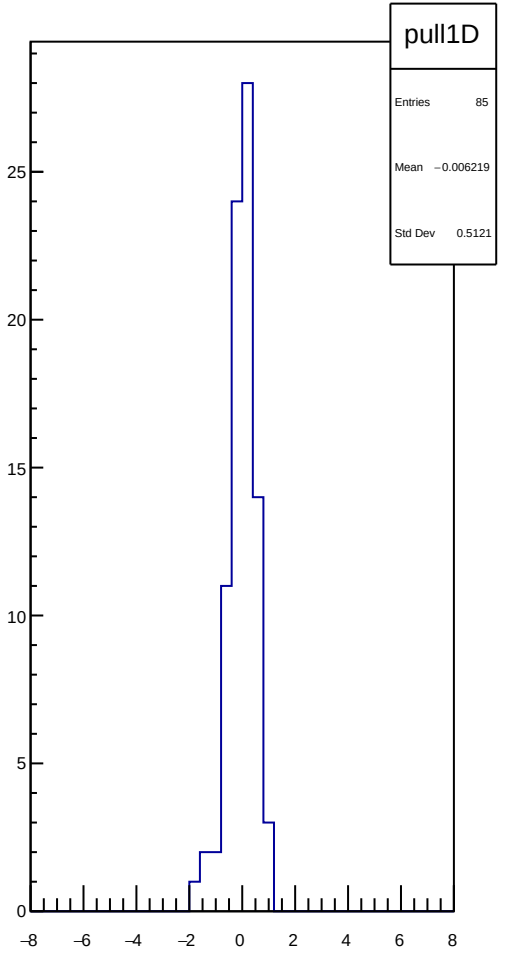

asym_bcm_an_ds3_rms vs run
χ² / ndf 3169 / 84
p0 180.6 ± 0.1422
220
210
200
190
180
170
160

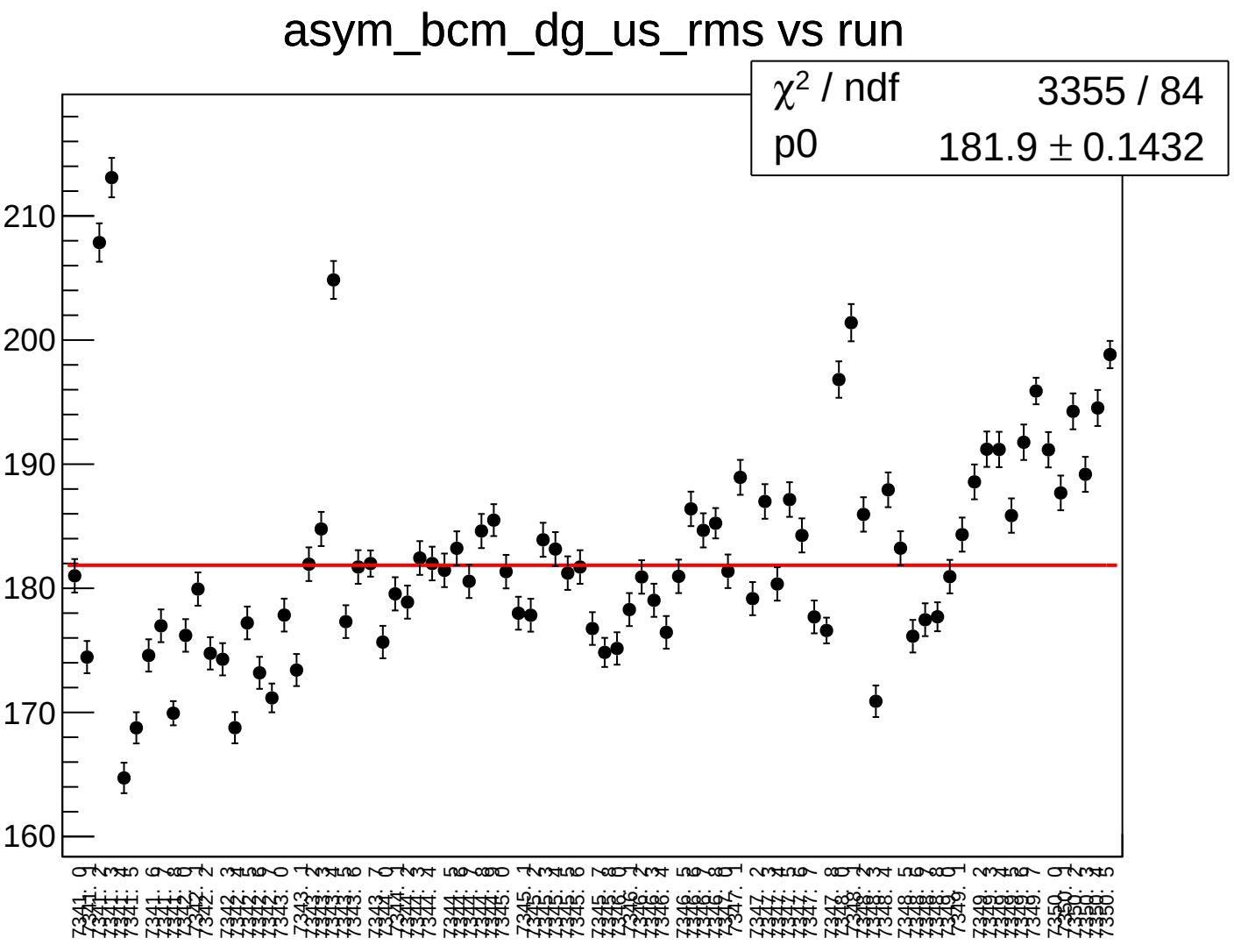

asym_bcm_an_us_mean vs run
χ² / ndf 17.31 / 84
p0 −10.84 ± 201.3
pull
Entries 85
Mean −217.6
Std Dev 0

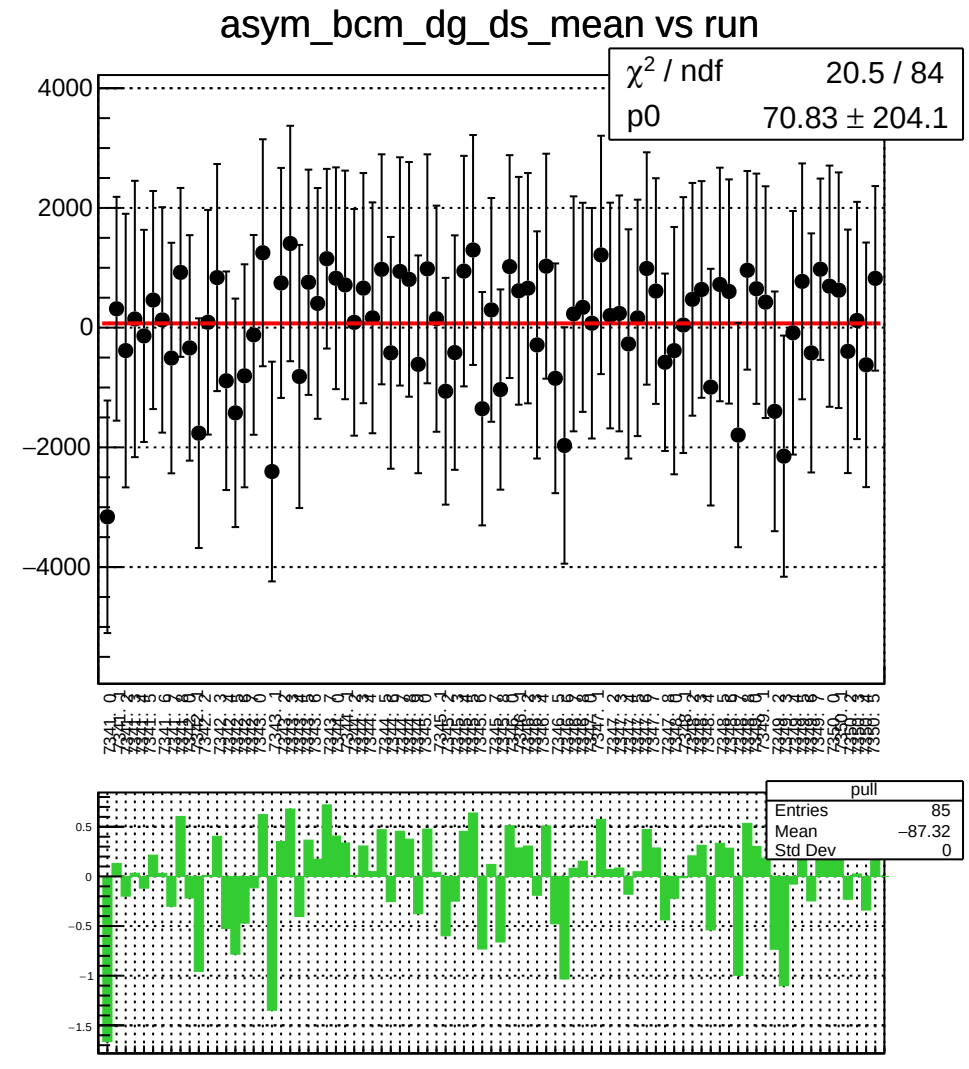

pull1D
Entries 85
Mean −0.006348
Std Dev 0.4512

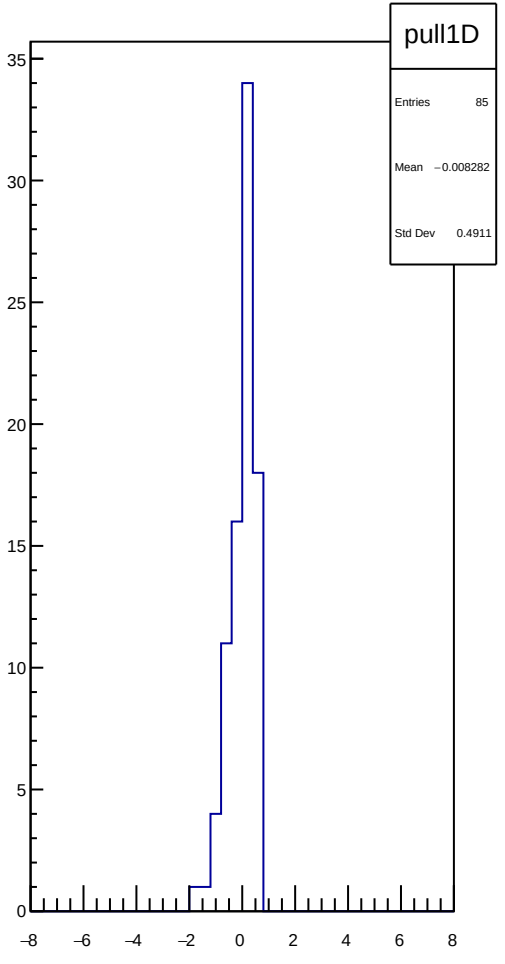

asym_bcm_an_us_rms vs run
χ² / ndf 3103 / 84
p0 180.8 ± 0.1423
220
210
200
190
180
170
160

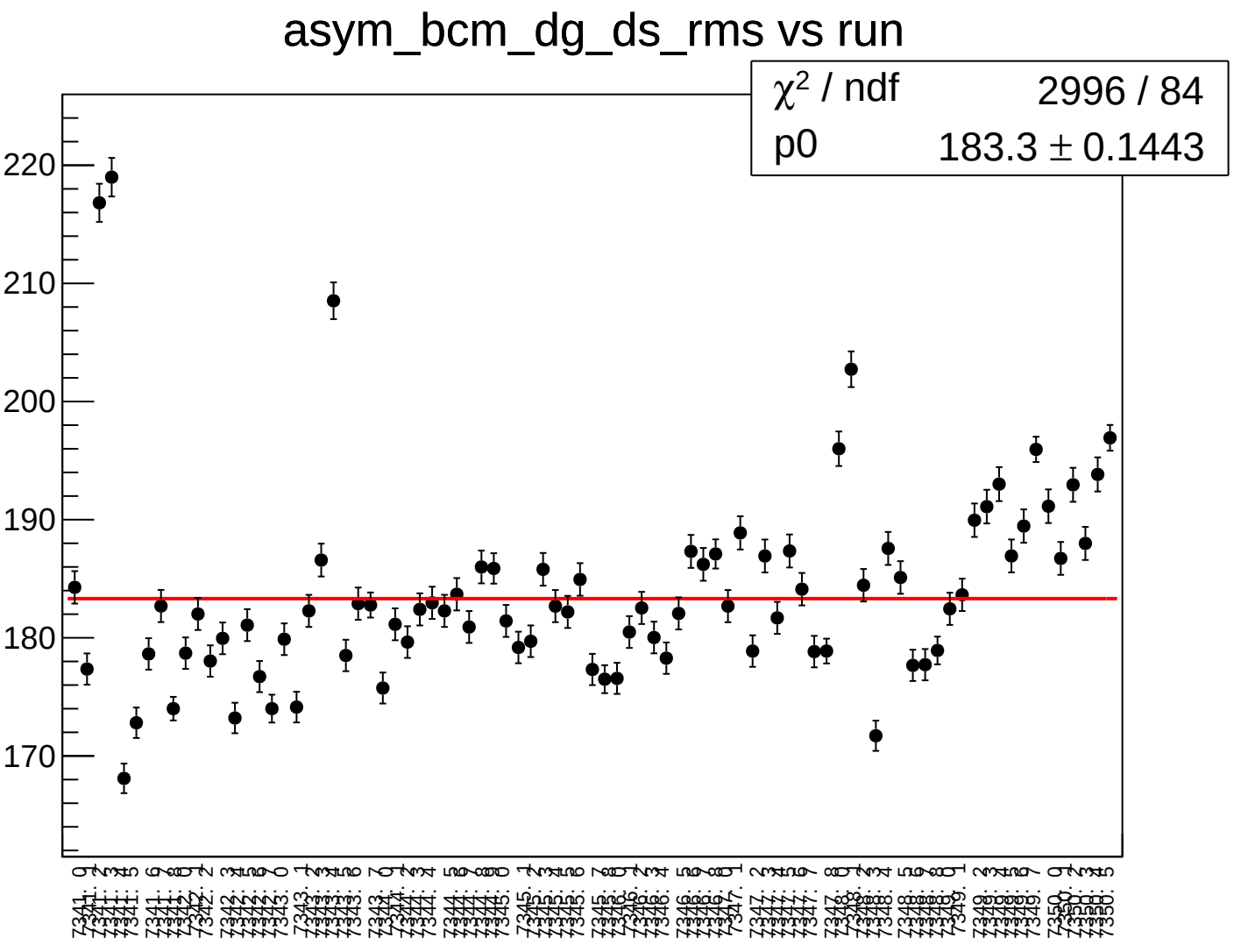

asym_bcm_dg_us_mean vs run
χ² / ndf 22.29 / 84
p0 25.44 ± 202.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −230.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

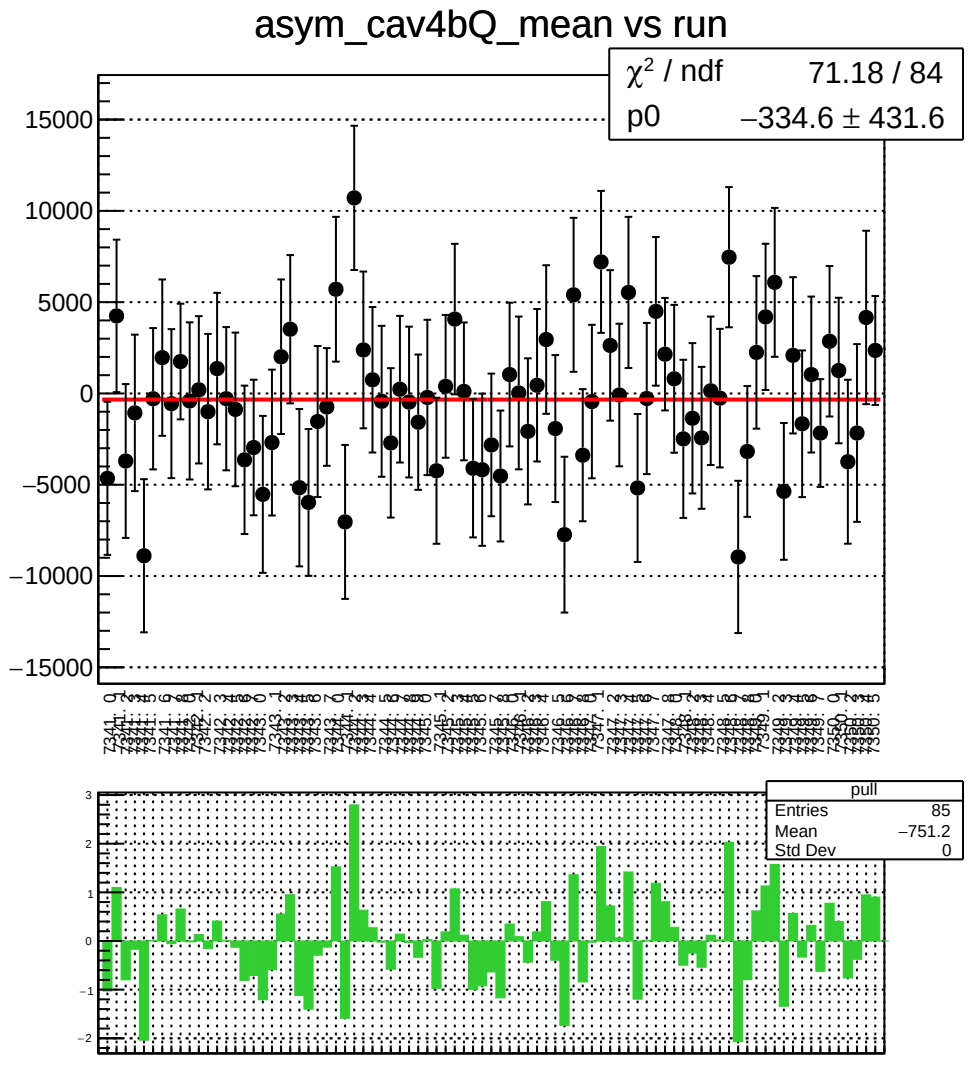

pull1D
Entries 85
Mean −0.006219
Std Dev 0.5121
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

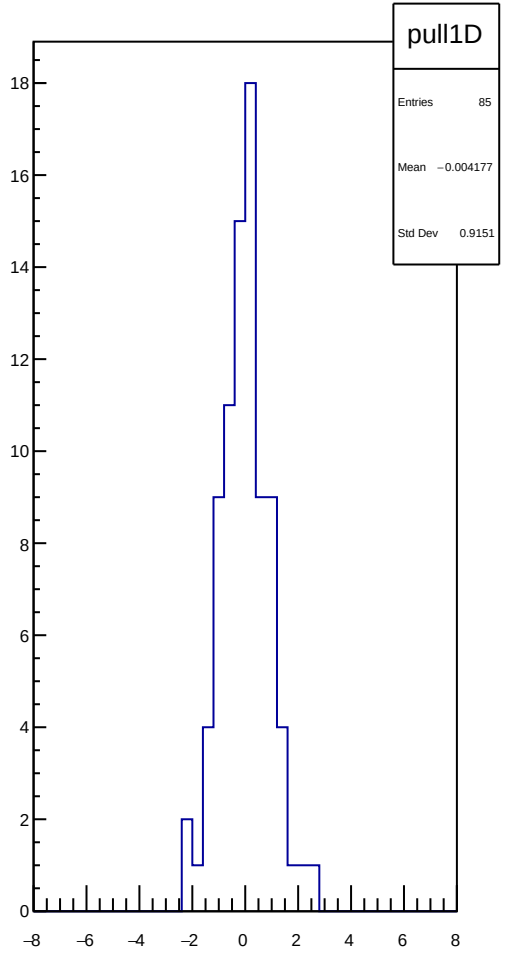

asym_bcm_dg_us_rms vs run
χ² / ndf 3355 / 84
p0 181.9 ± 0.1432
210
200
190
180
170
160

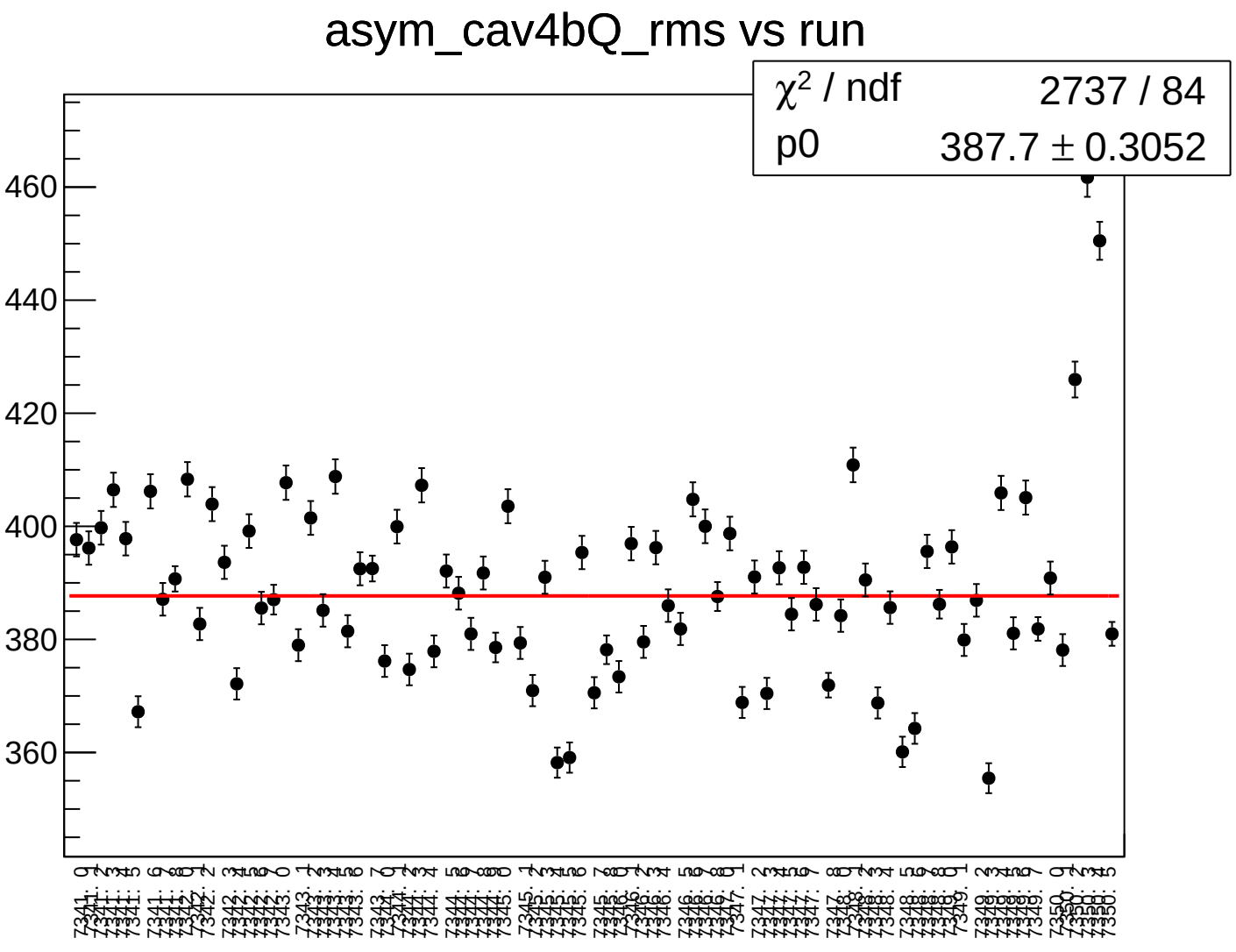

asym_bcm_dg_ds_mean vs run
χ² / ndf 20.5 / 84
p0 70.83 ± 204.1
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −87.32
Std Dev 0
0.5
0
−0.5
−1
−1.5

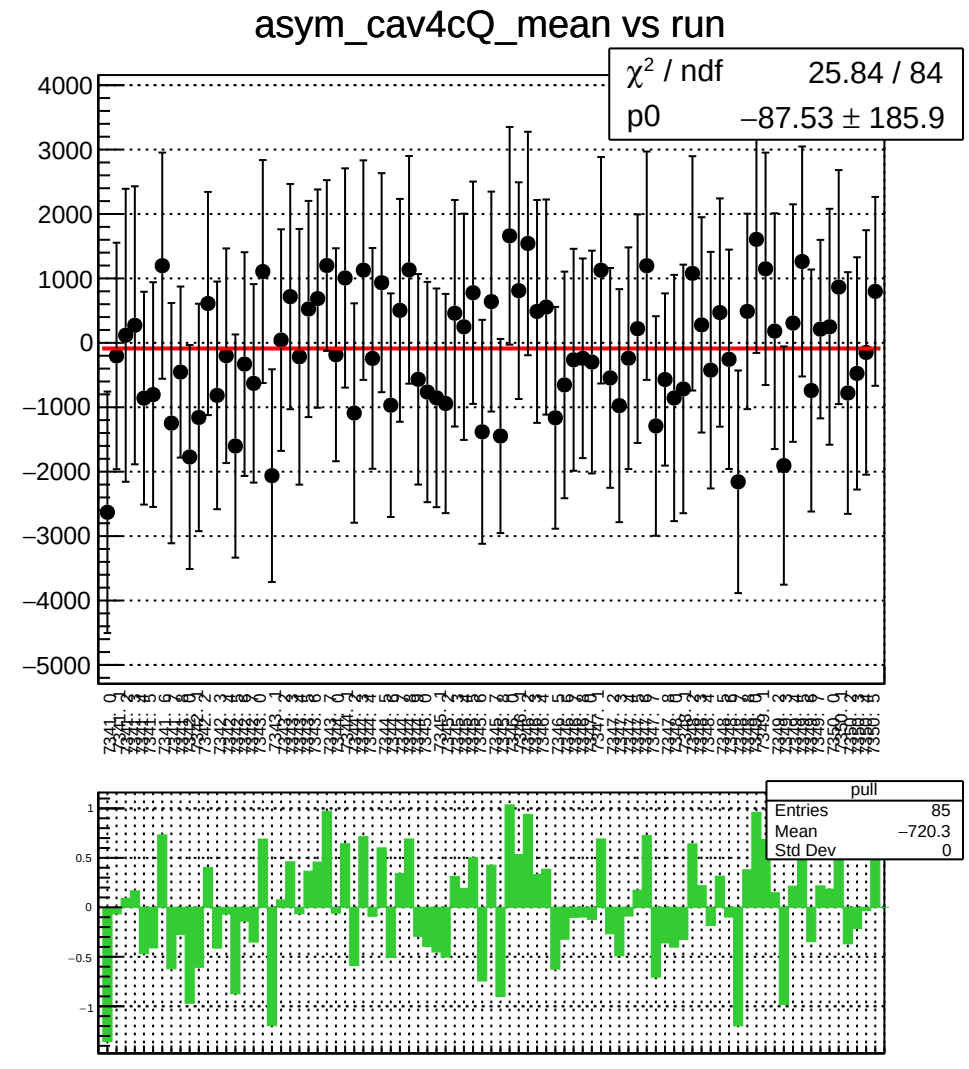

pull1D
Entries 85
Mean −0.008282
Std Dev 0.4911
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

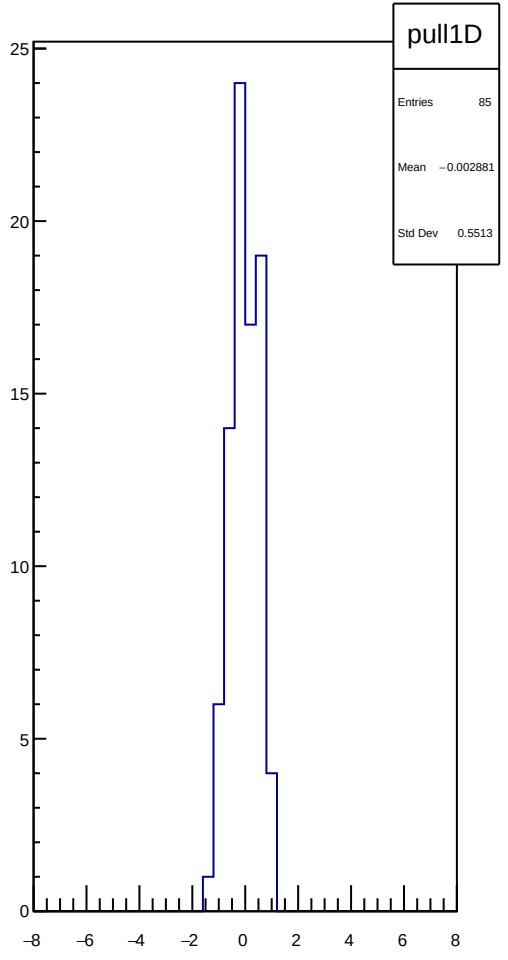

asym_bcm_dg_ds_rms vs run
χ² / ndf 2996 / 84
p0 183.3 ± 0.1443
220
210
200
190
180
170

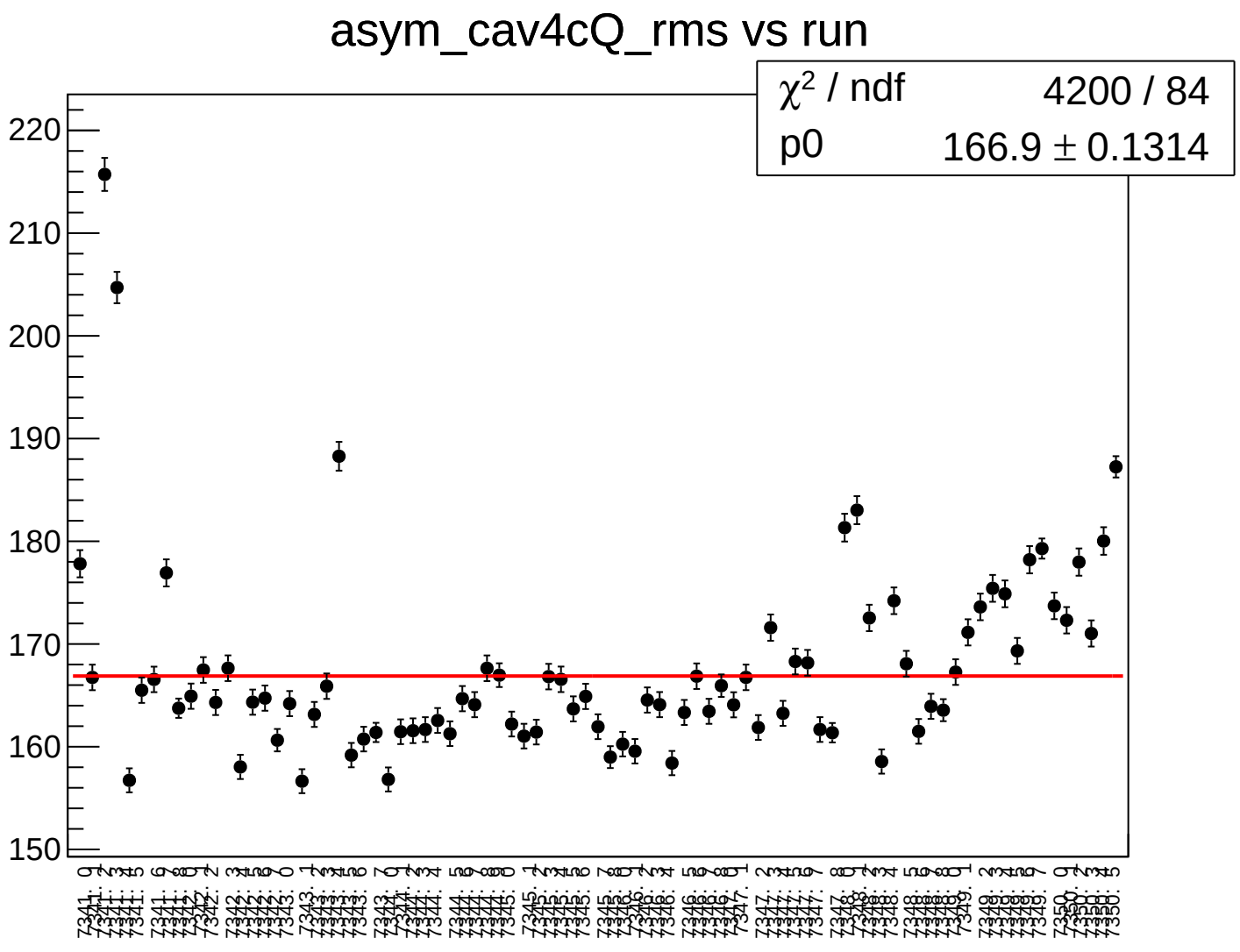

asym_cav4bQ_mean vs run
χ² / ndf 71.18 / 84
p0 −334.6 ± 431.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −751.2
Std Dev 0
3
2
1
0
−1
−2

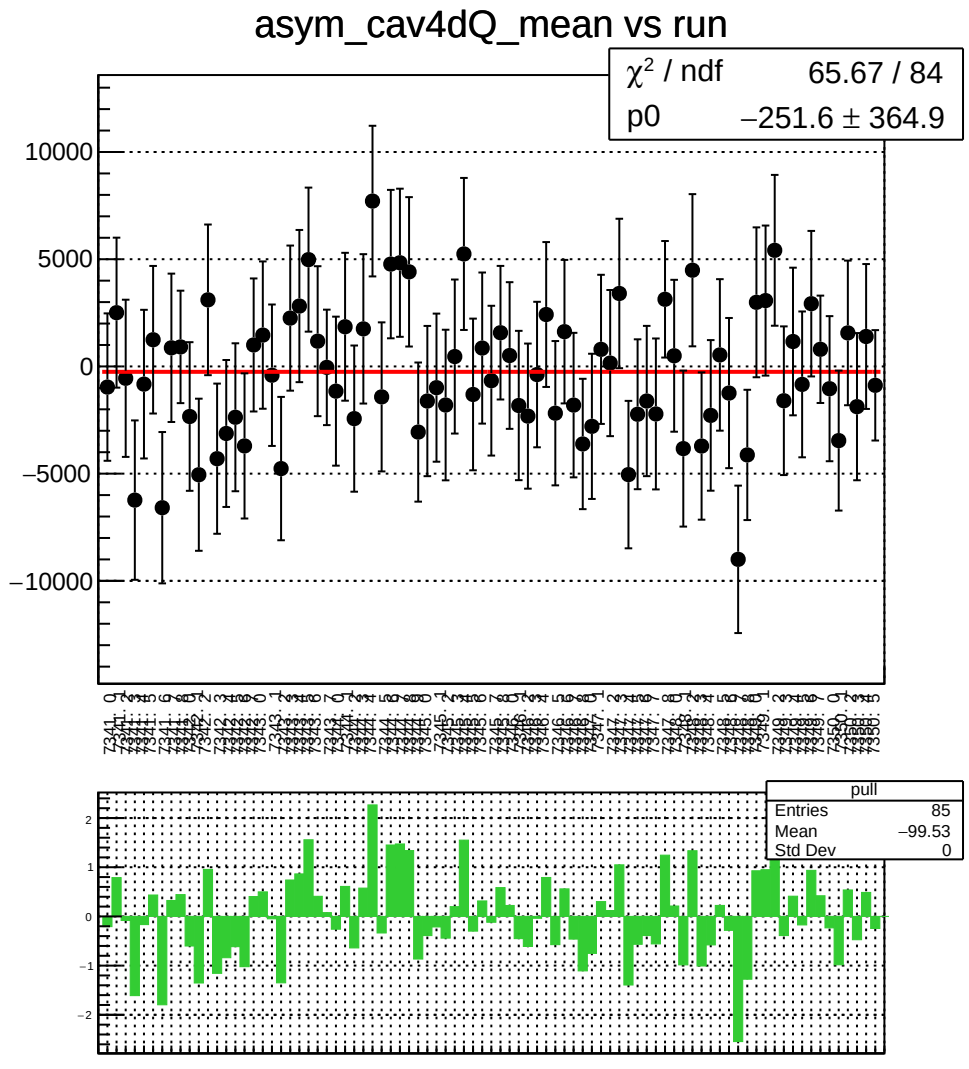

pull1D
Entries 85
Mean −0.004177
Std Dev 0.9151
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

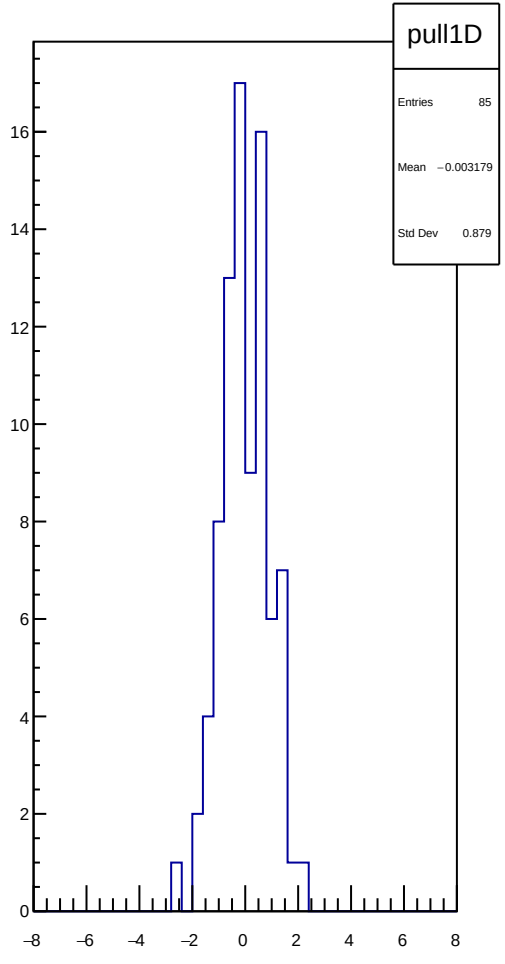

asym_cav4bQ_rms vs run
χ^2 / ndf 2737 / 84
p0 387.7 ± 0.3052
460
440
420
400
380
360

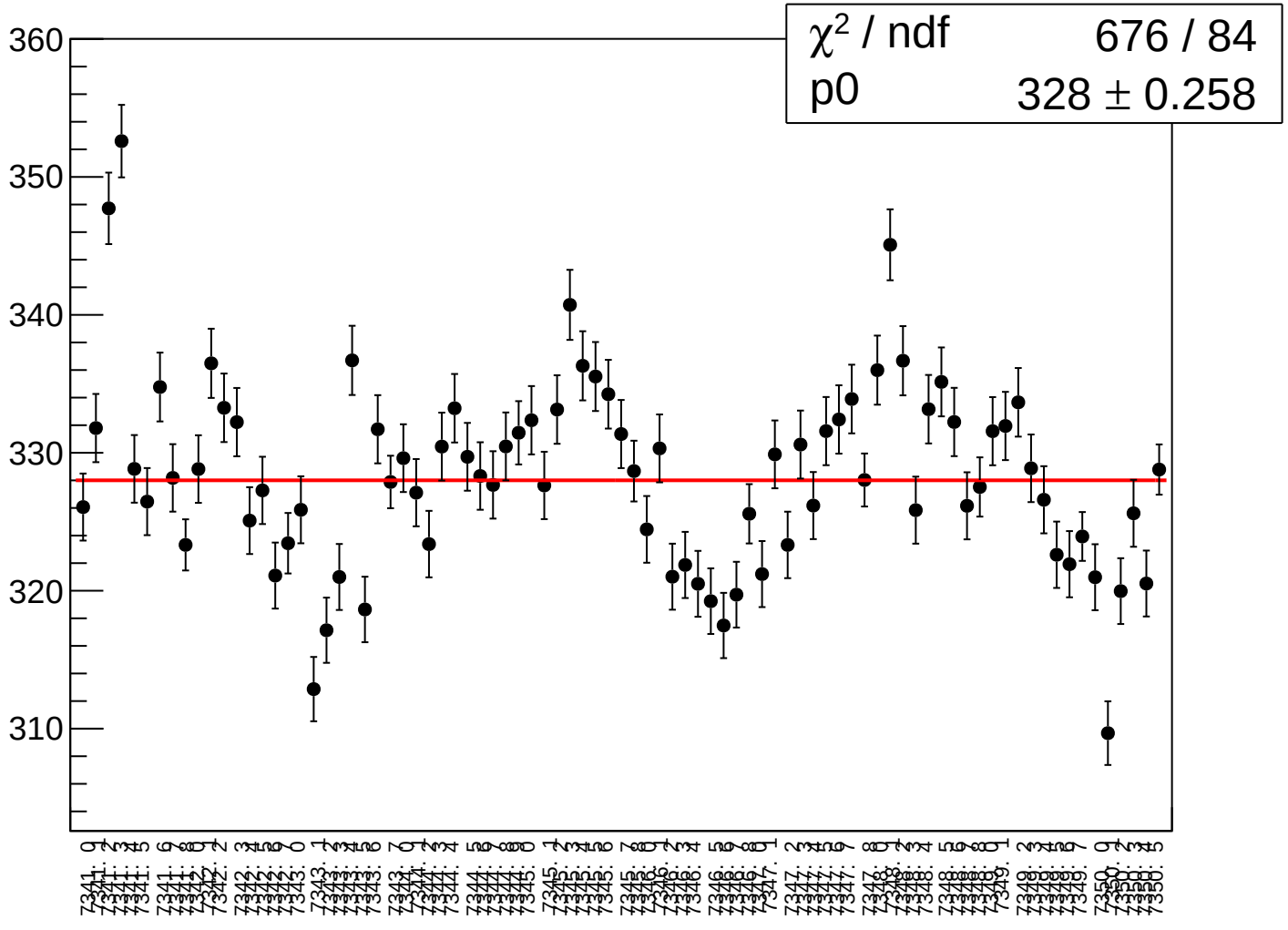

asym_cav4cQ_mean vs run
χ² / ndf 25.84 / 84
p0 −87.53 ± 185.9
pull
Entries 85
Mean −720.3
Std Dev 0

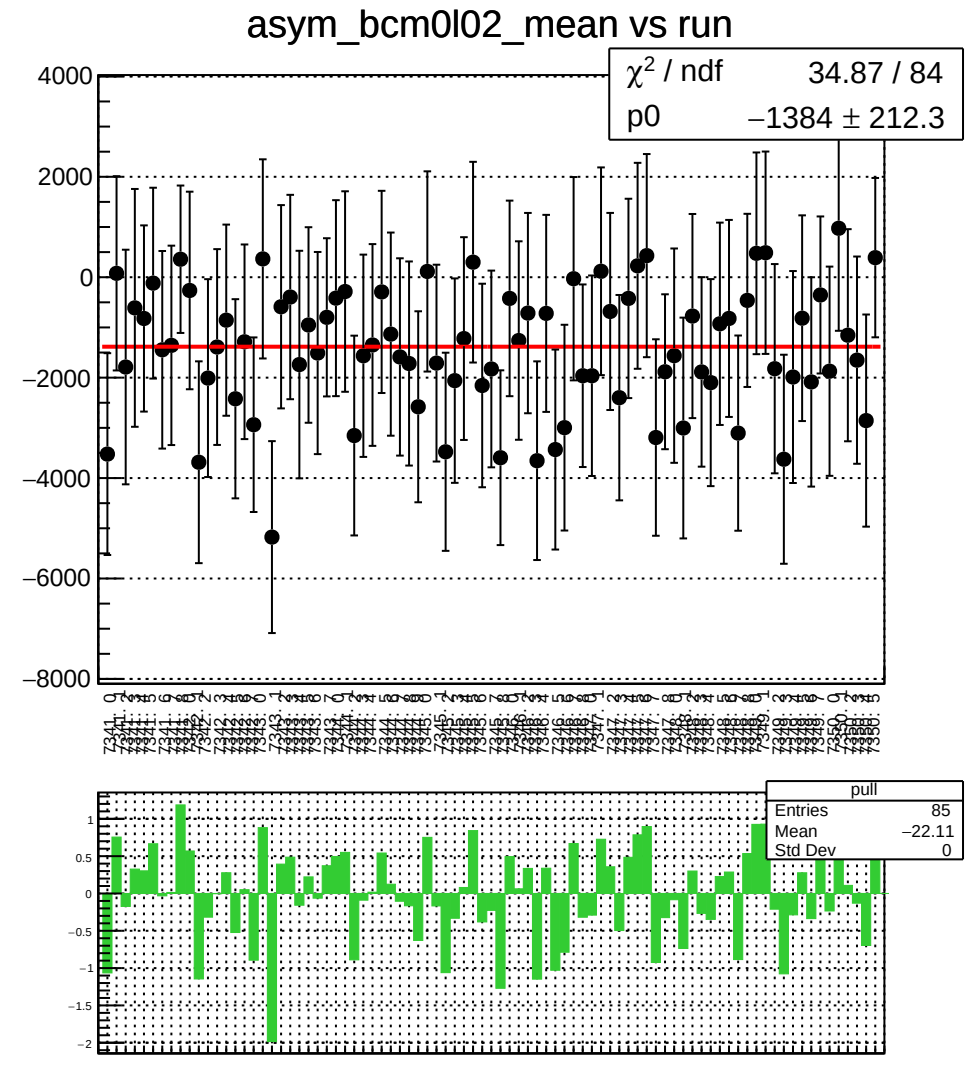

pull1D
Entries 85
Mean −0.002881
Std Dev 0.5513

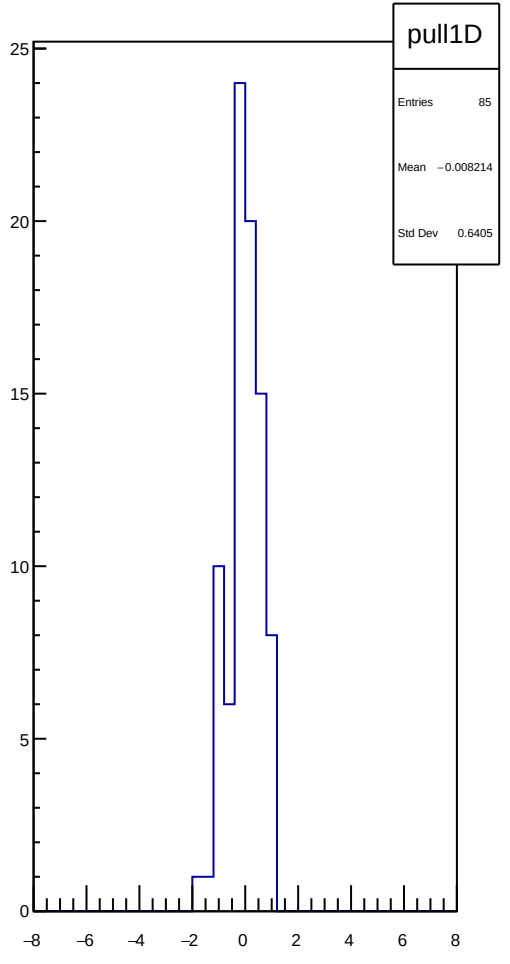

asym_cav4cQ_rms vs run
χ² / ndf 4200 / 84
p0 166.9 ± 0.1314
220
210
200
190
180
170
160
150

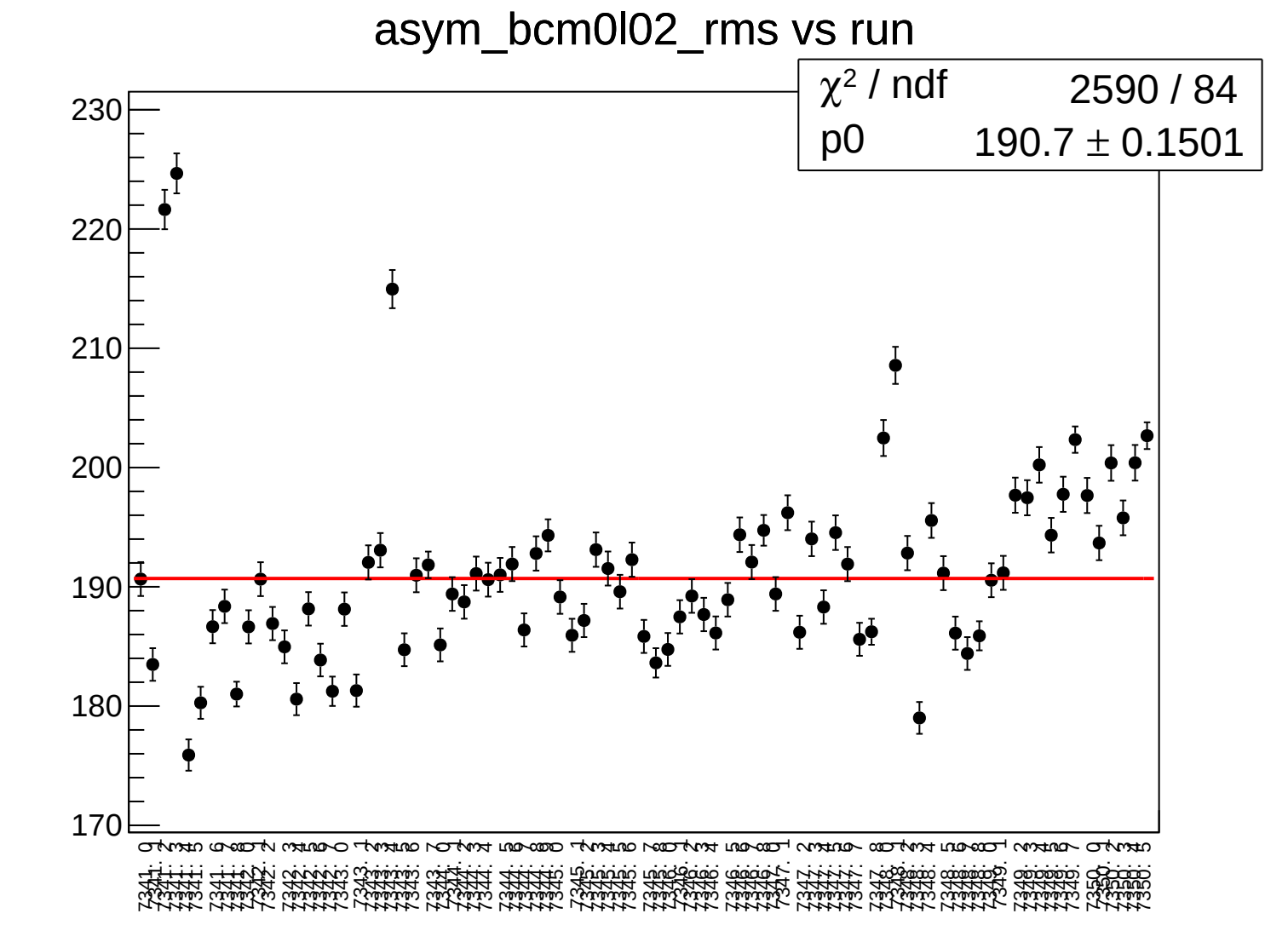

asym_cav4dQ_mean vs run
χ² / ndf 65.67 / 84
p0 −251.6 ± 364.9
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −99.53
Std Dev 0
2
1
0
−1
−2

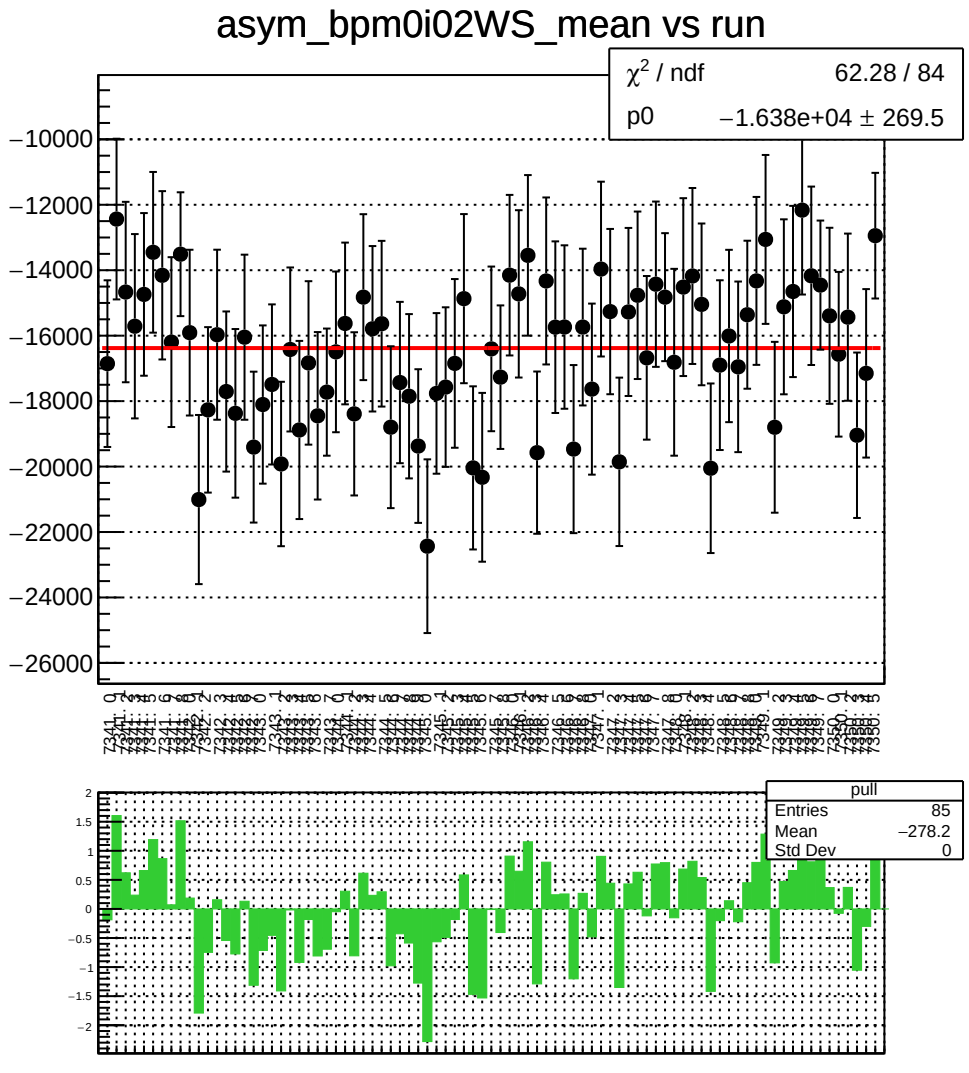

pull1D
Entries 85
Mean −0.003179
Std Dev 0.879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

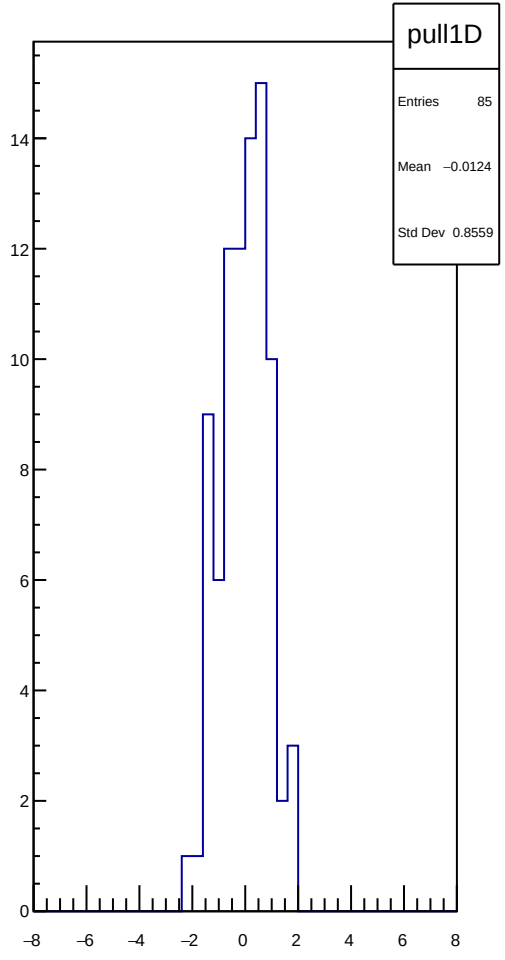

asym_cav4dQ_rms vs run
χ² / ndf 676 / 84
p0 328 ± 0.258
360
350
340
330
320
310

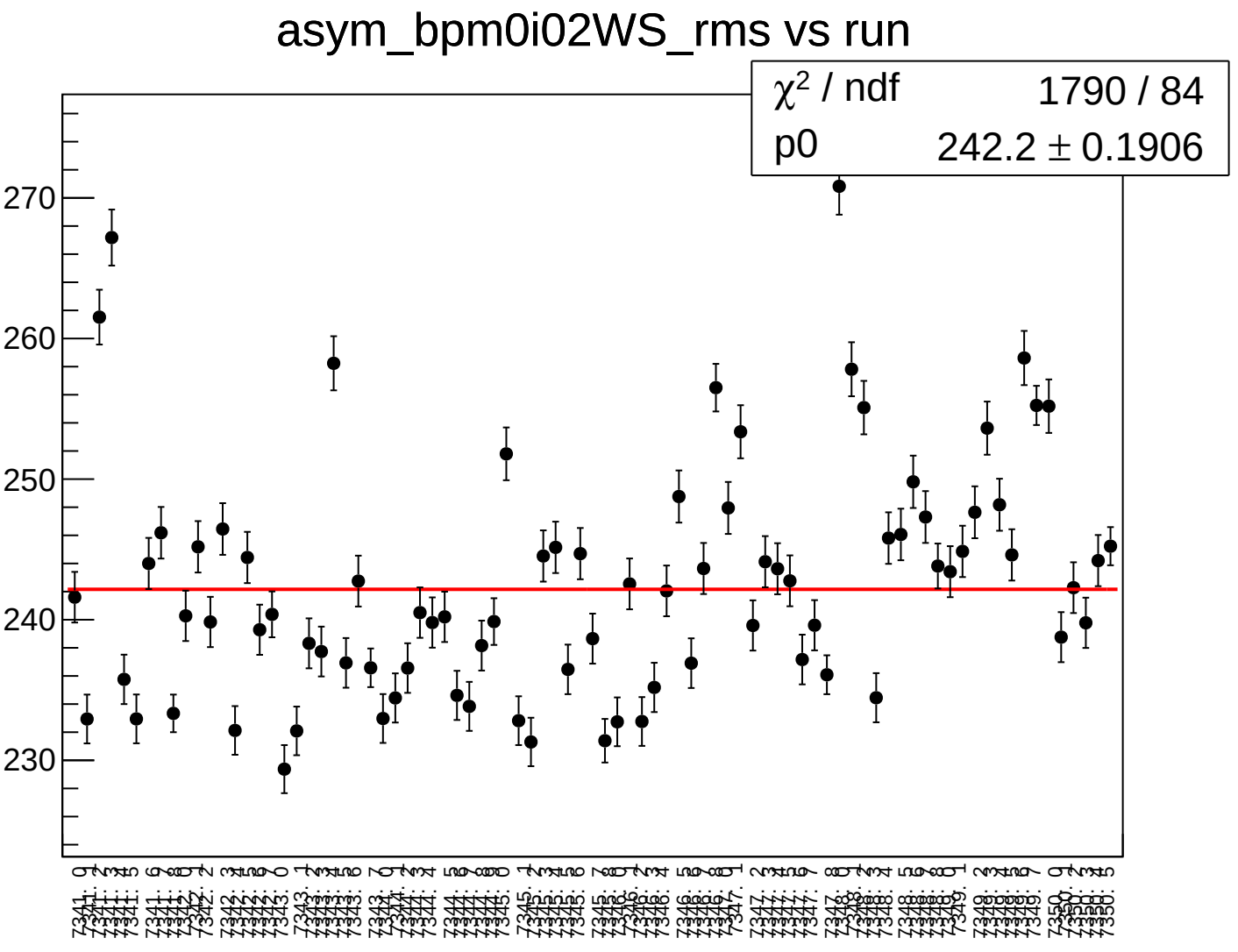

asym_bcm0l02_mean vs run
χ² / ndf 34.87 / 84
p0 −1384 ± 212.3
pull
Entries 85
Mean −22.11
Std Dev 0

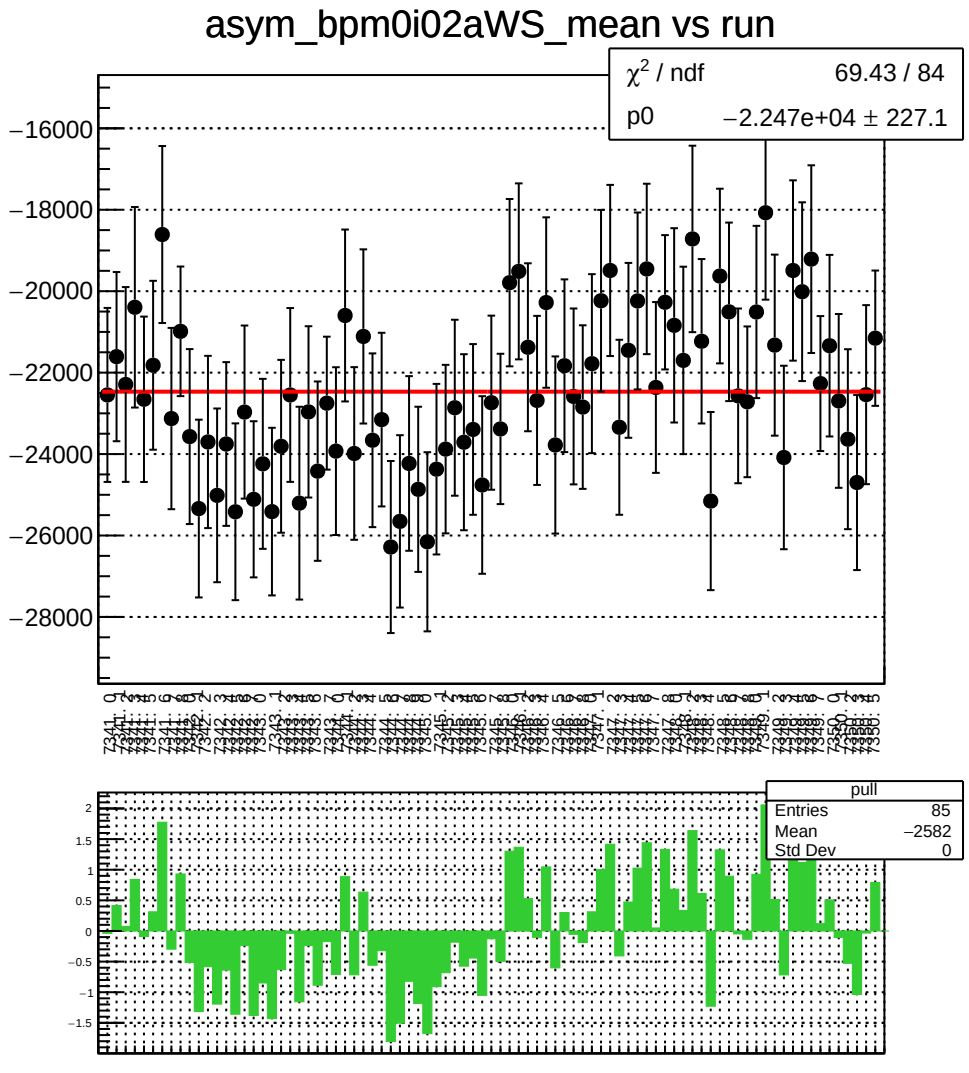

pull1D
Entries 85
Mean −0.008214
Std Dev 0.6405

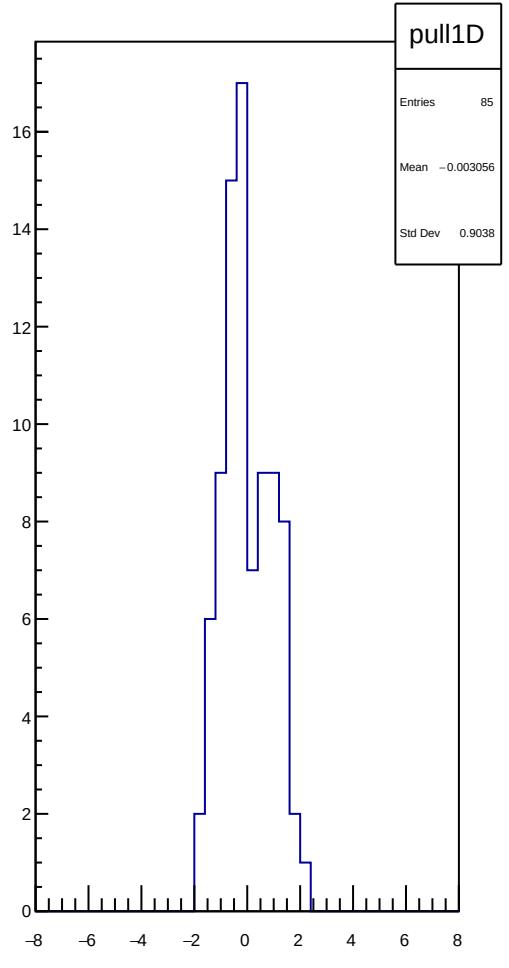

asym_bcm0l02_rms vs run
χ² / ndf 2590 / 84
p0 190.7 ± 0.1501
230
220
210
200
190
180
170

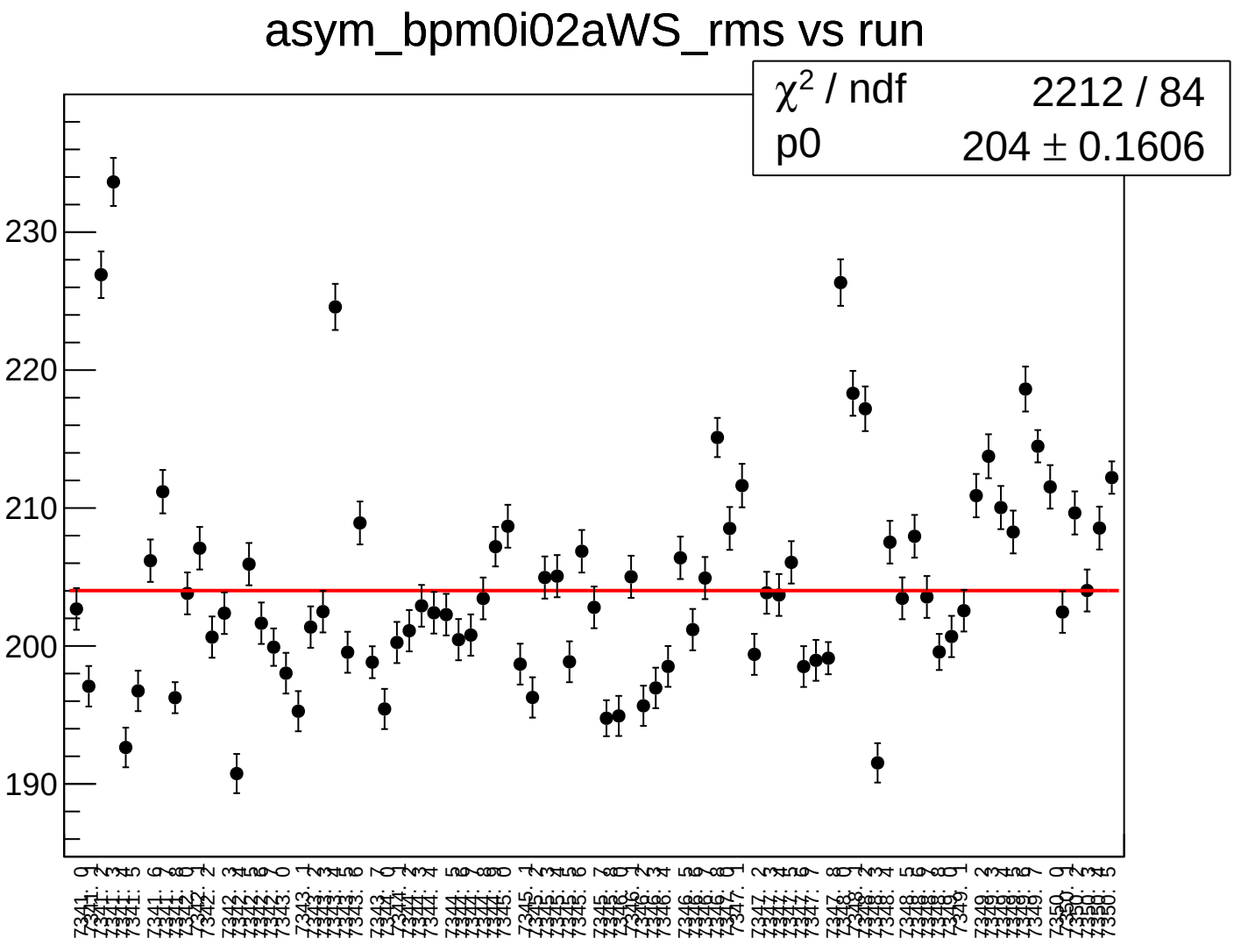

asym_bpm0i02WS_mean vs run
χ² / ndf 62.28 / 84
p0 −1.638e+04 ± 269.5
pull
Entries 85
Mean −278.2
Std Dev 0

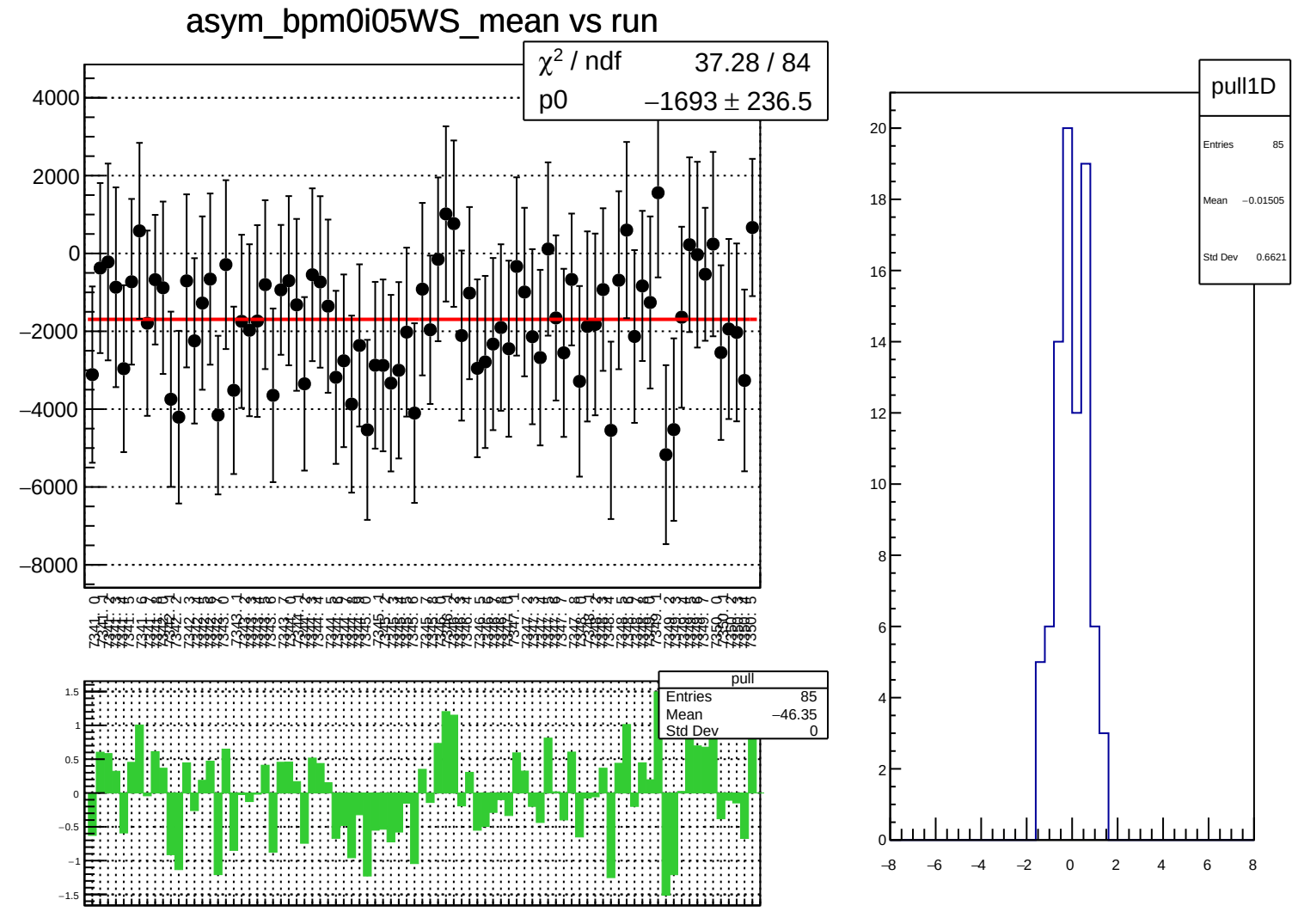

pull1D
Entries 85
Mean −0.0124
Std Dev 0.8559

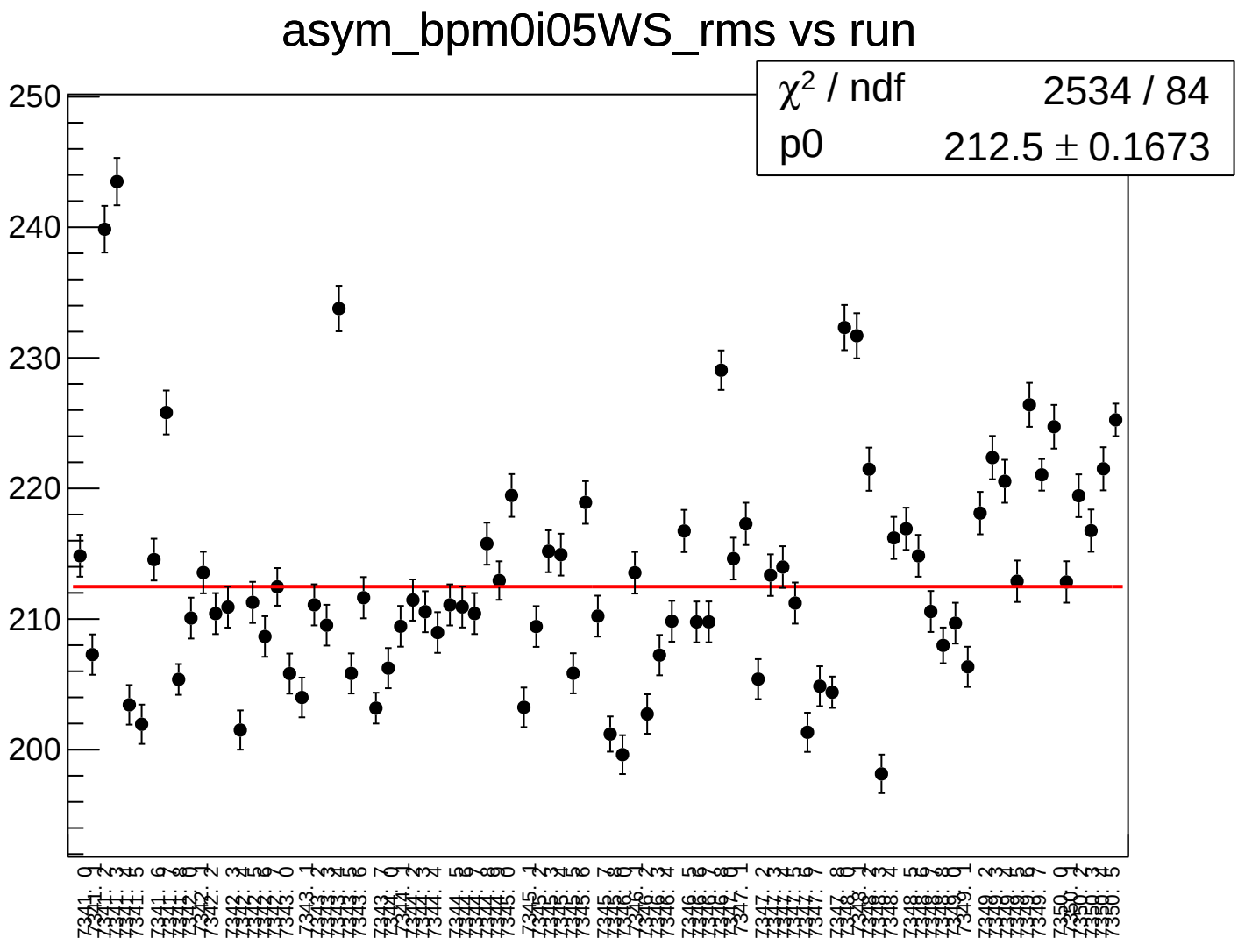

asym_bpm0i02WS_rms vs run
χ² / ndf 1790 / 84
p0 242.2 ± 0.1906
270
260
250
240
230

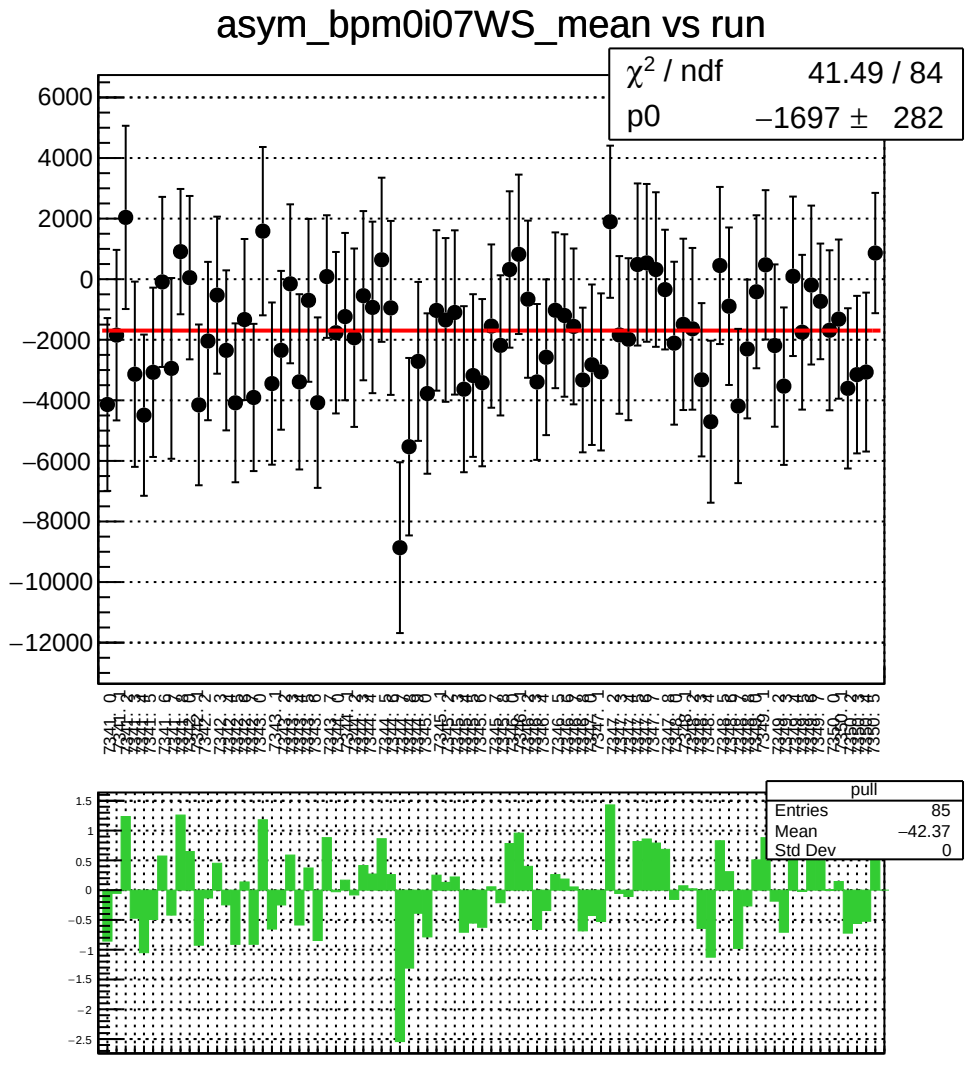

asym_bpm0i02aWS_mean vs run
χ² / ndf 69.43 / 84
p0 −2.247e+04 ± 227.1
−16000
−18000
−20000
−22000
−24000
−26000
−28000
pull
Entries 85
Mean −2582
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

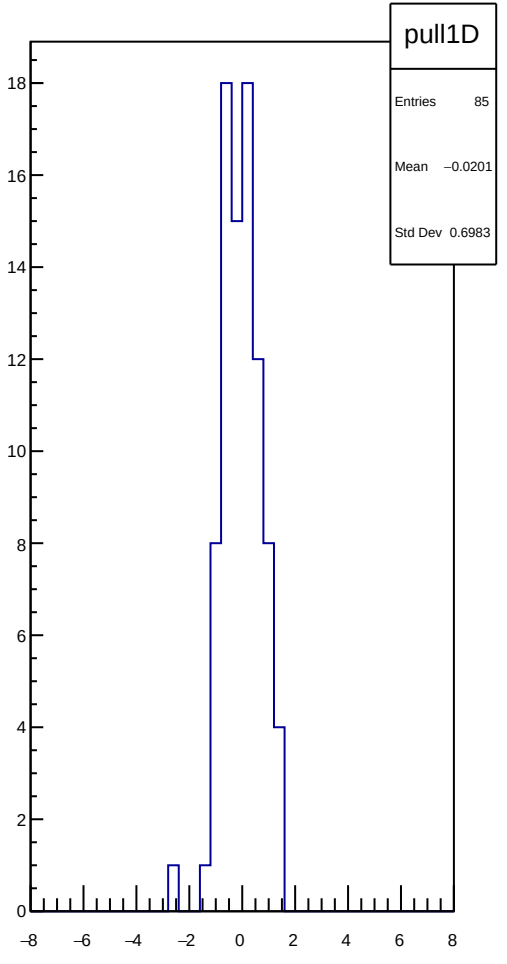

pull1D
Entries 85
Mean −0.003056
Std Dev 0.9038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

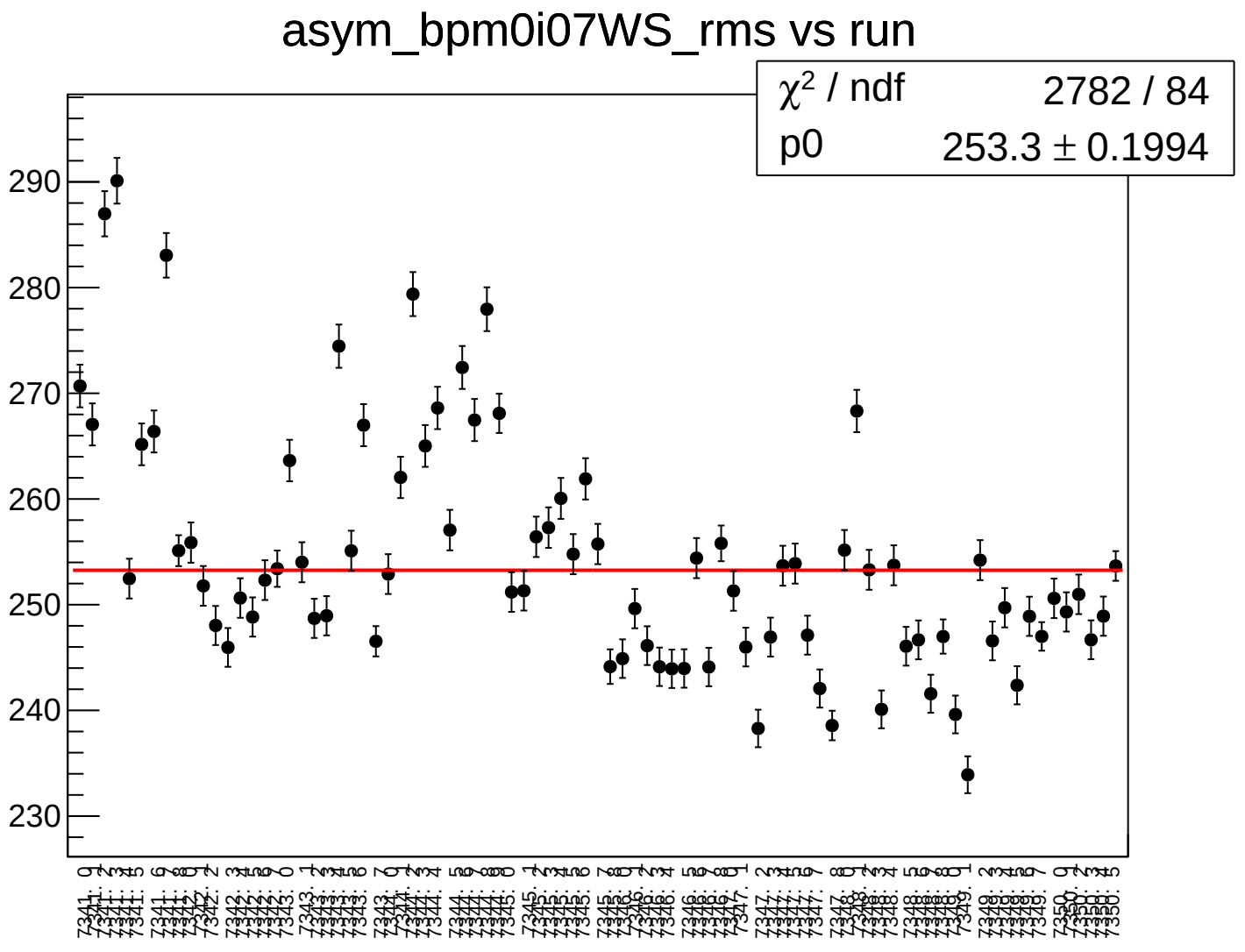

asym_bpm0i02aWS_rms vs run
χ² / ndf 2212 / 84
p0 204 ± 0.1606
230
220
210
200
190

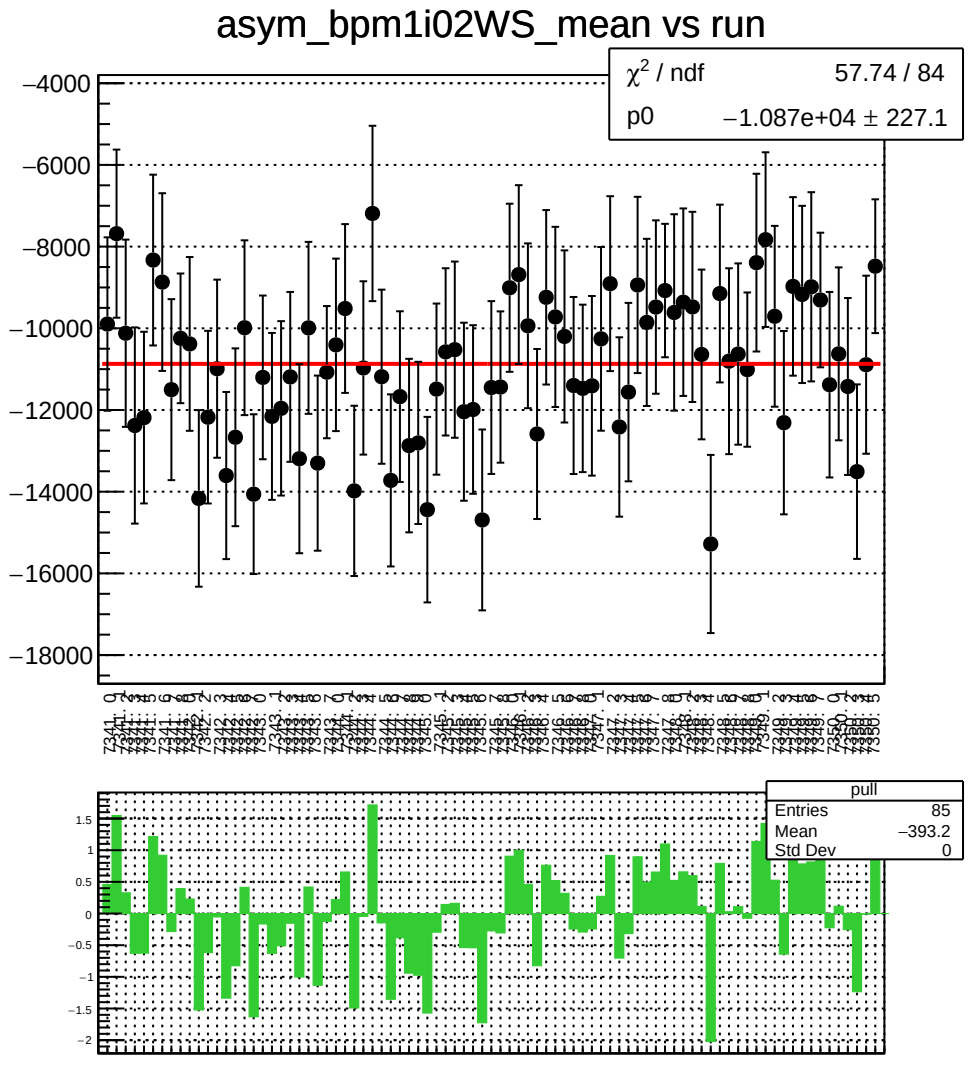

asym_bpm0i05WS_mean vs run
χ² / ndf 37.28 / 84
p0 −1693 ± 236.5
pull
Entries 85
Mean −46.35
Std Dev 0
pull1D
Entries 85
Mean −0.01505
Std Dev 0.6621

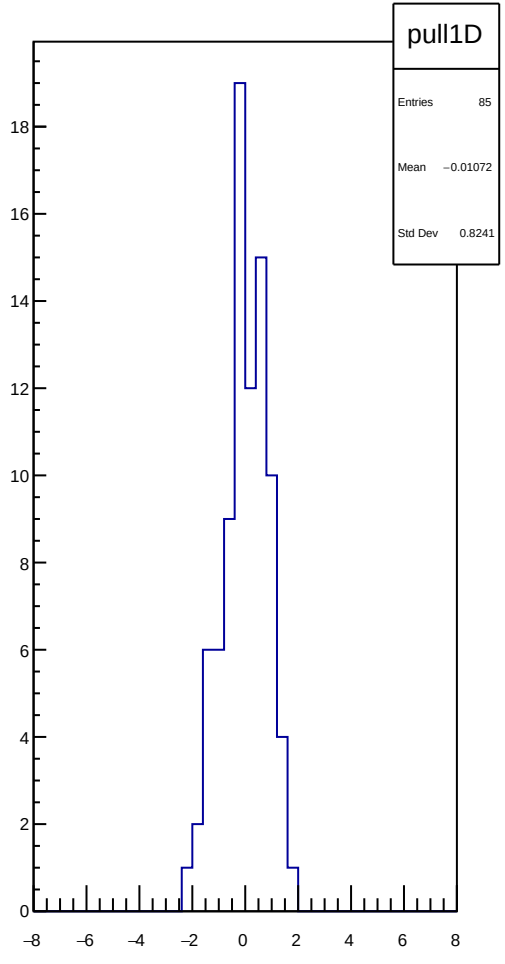

asym_bpm0i05WS_rms vs run
χ² / ndf 2534 / 84
p0 212.5 ± 0.1673
250
240
230
220
210
200

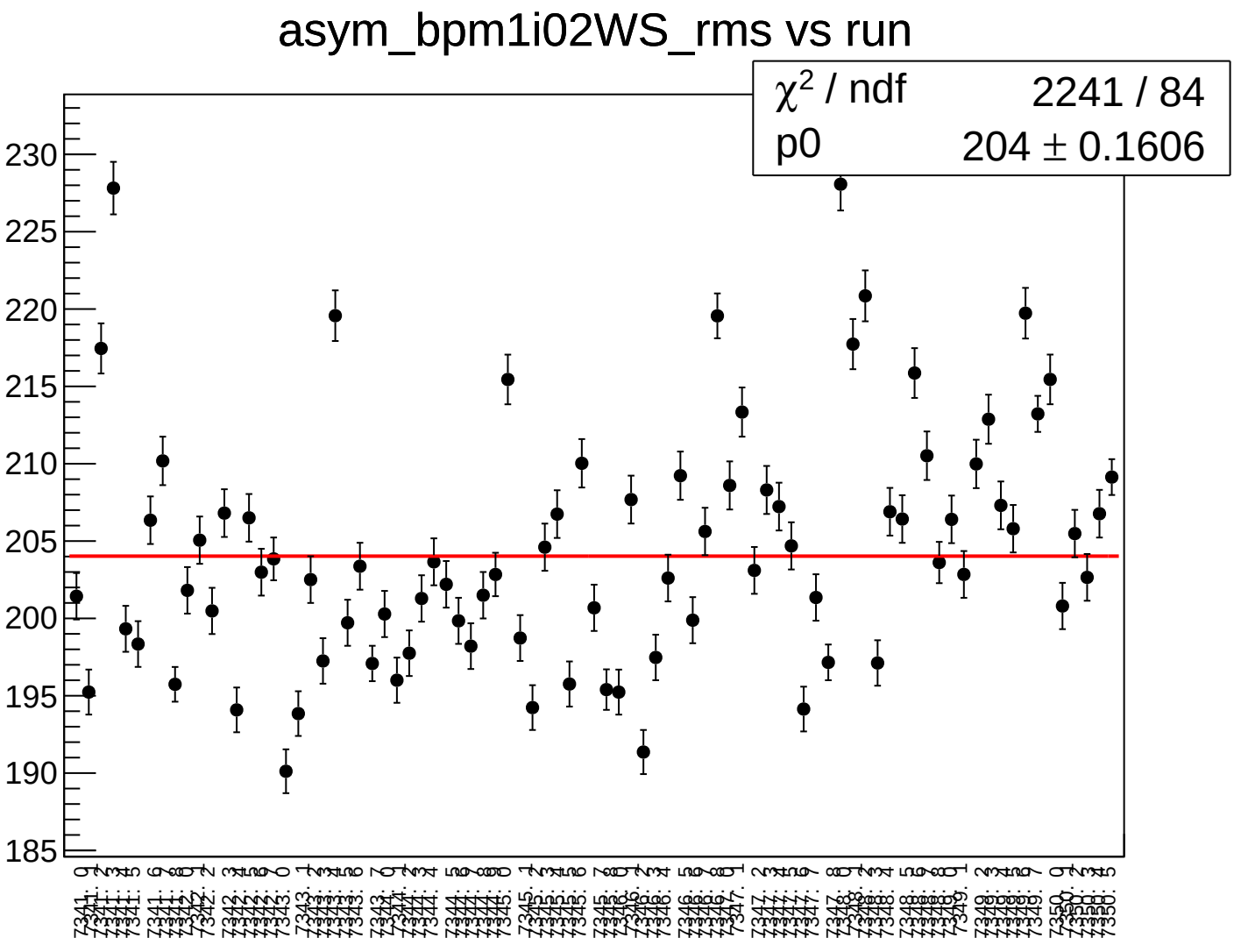

asym_bpm0i07WS_mean vs run
χ² / ndf 41.49 / 84
p0 −1697 ± 282
pull
Entries 85
Mean −42.37
Std Dev 0

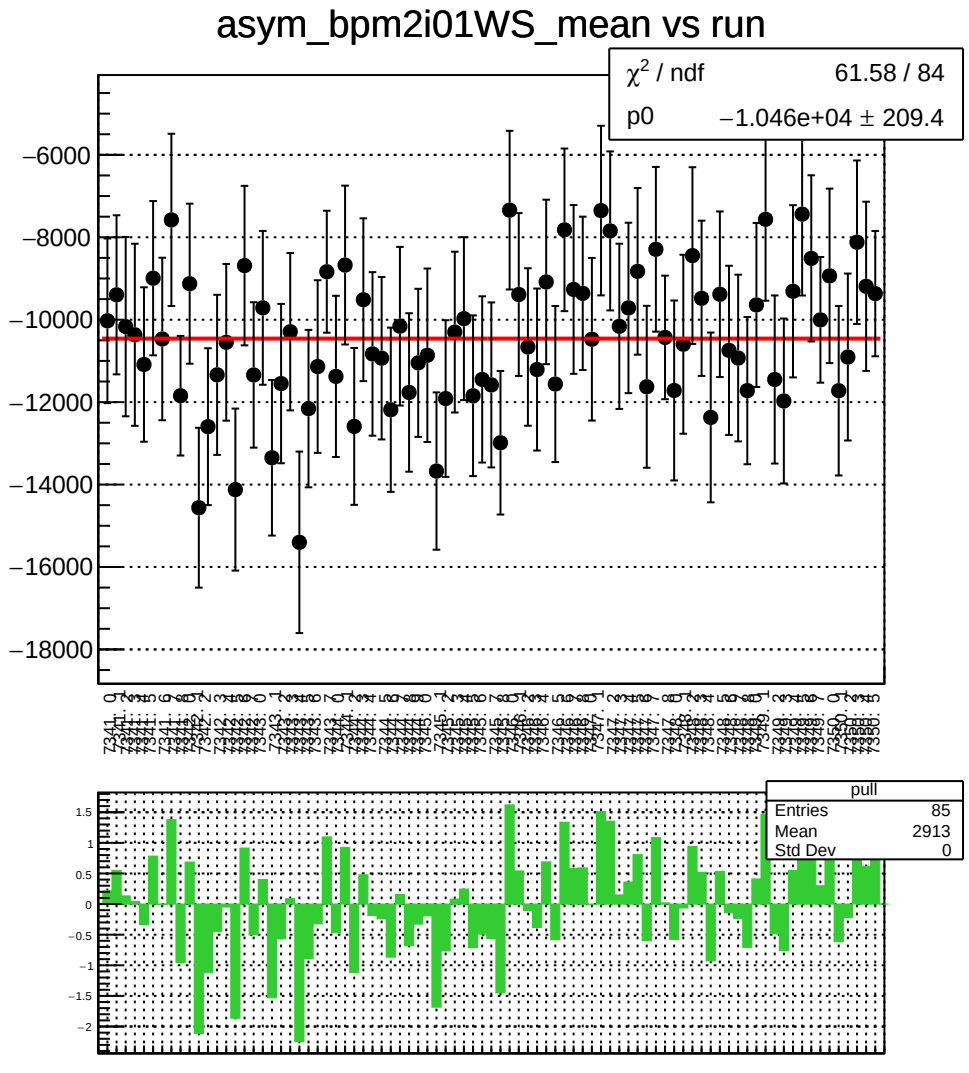

pull1D
Entries 85
Mean −0.0201
Std Dev 0.6983

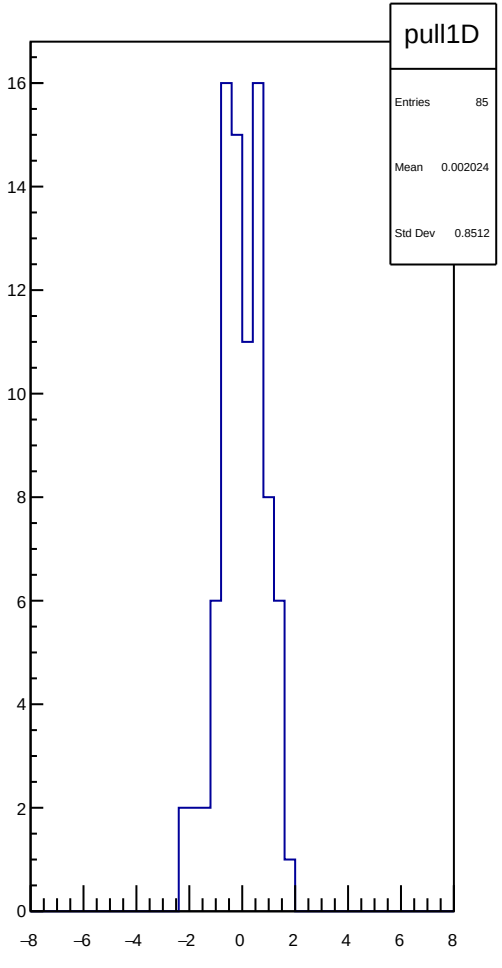

asym_bpm0i07WS_rms vs run
χ² / ndf 2782 / 84
p0 253.3 ± 0.1994
290
280
270
260
250
240
230

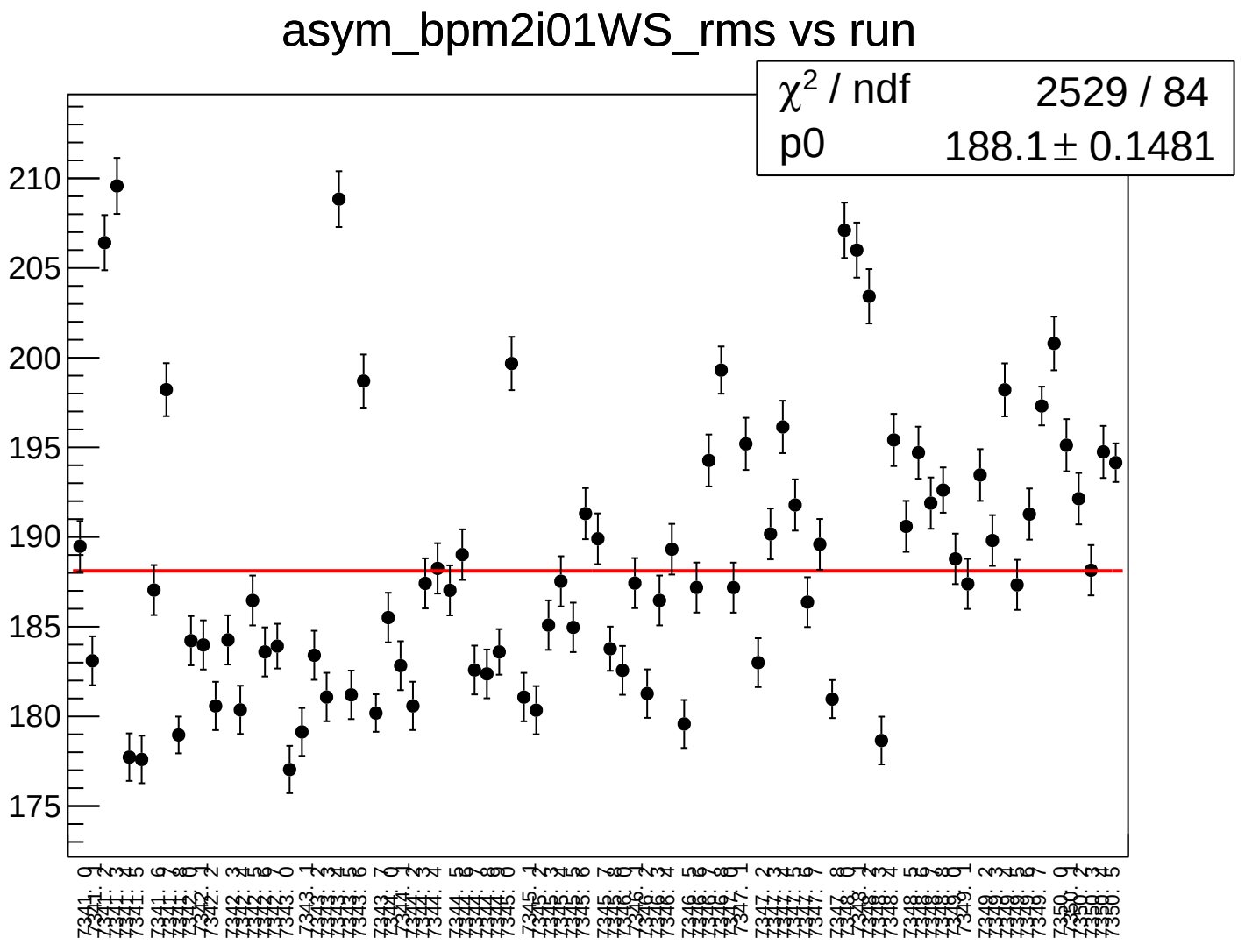

asym_bpm1i02WS_mean vs run
χ² / ndf 57.74 / 84
p0 −1.087e+04 ± 227.1
pull
Entries 85
Mean −393.2
Std Dev 0

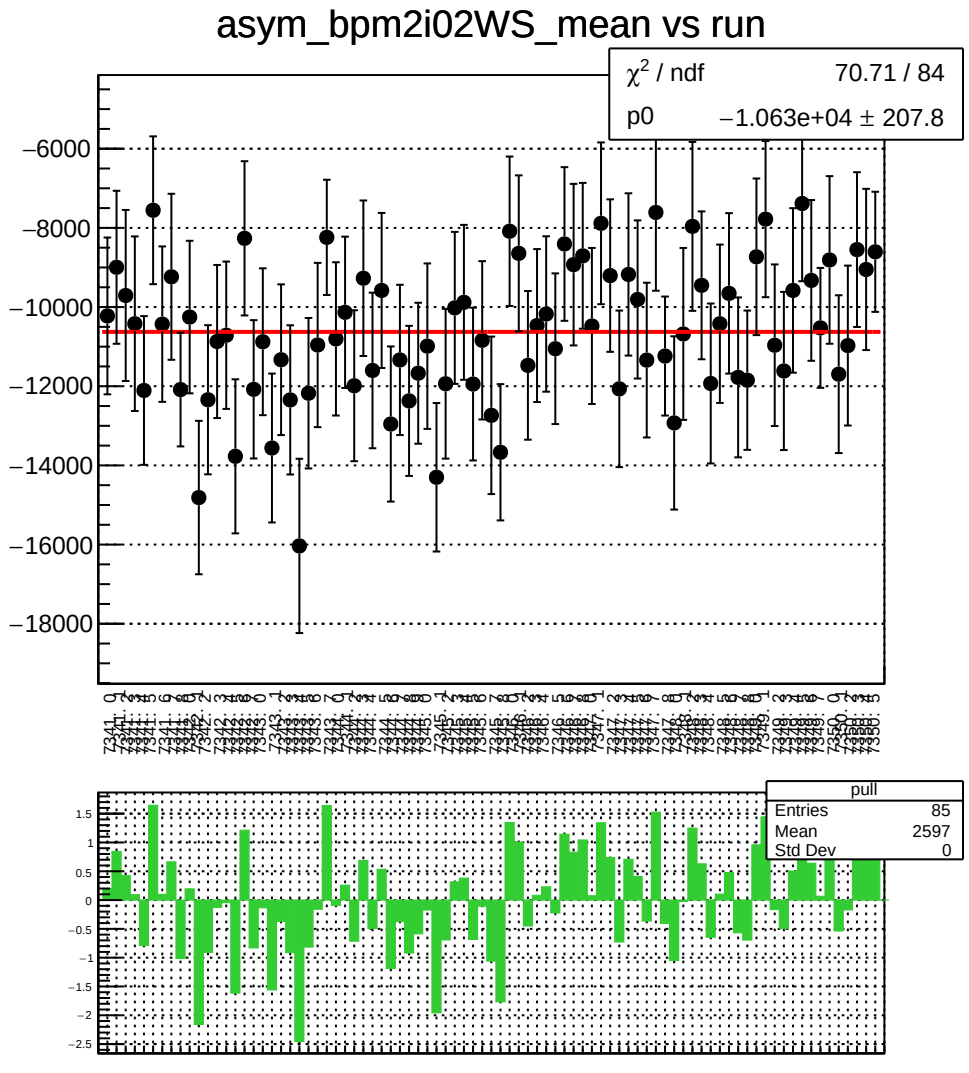

pull1D
Entries 85
Mean −0.01072
Std Dev 0.8241

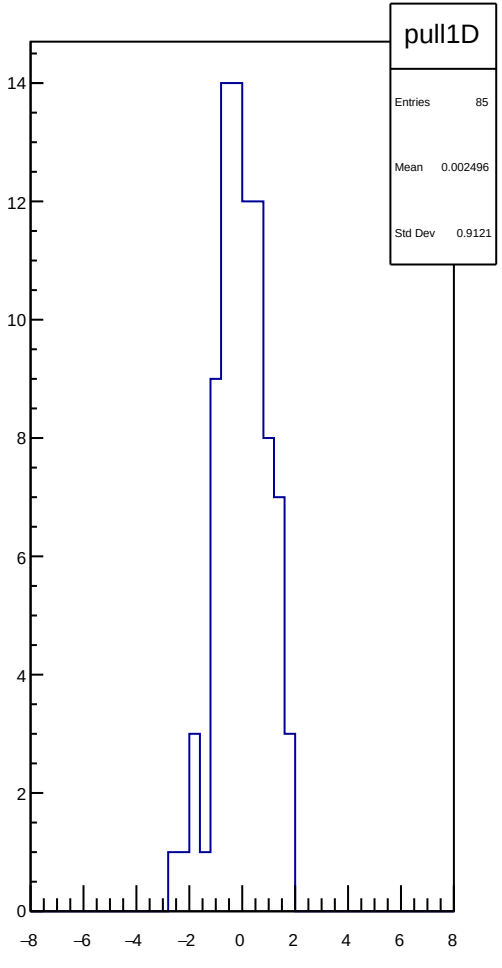

asym_bpm1i02WS_rms vs run
χ^2 / ndf 2241 / 84
p0 204 ± 0.1606
230
225
220
215
210
205
200
195
190
185

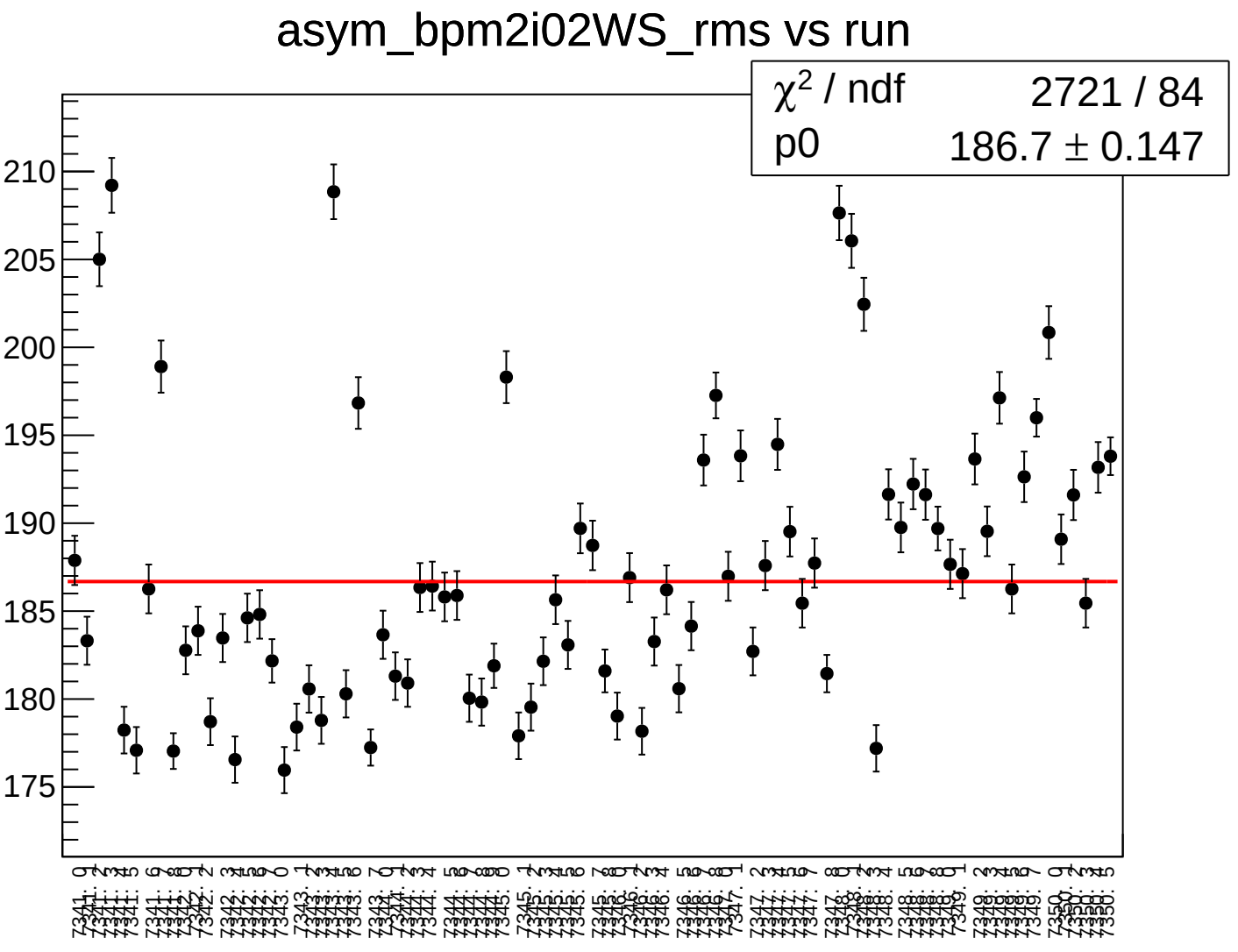

asym_bpm2i01WS_mean vs run
χ² / ndf 61.58 / 84
p0 −1.046e+04 ± 209.4
pull
Entries 85
Mean 2913
Std Dev 0

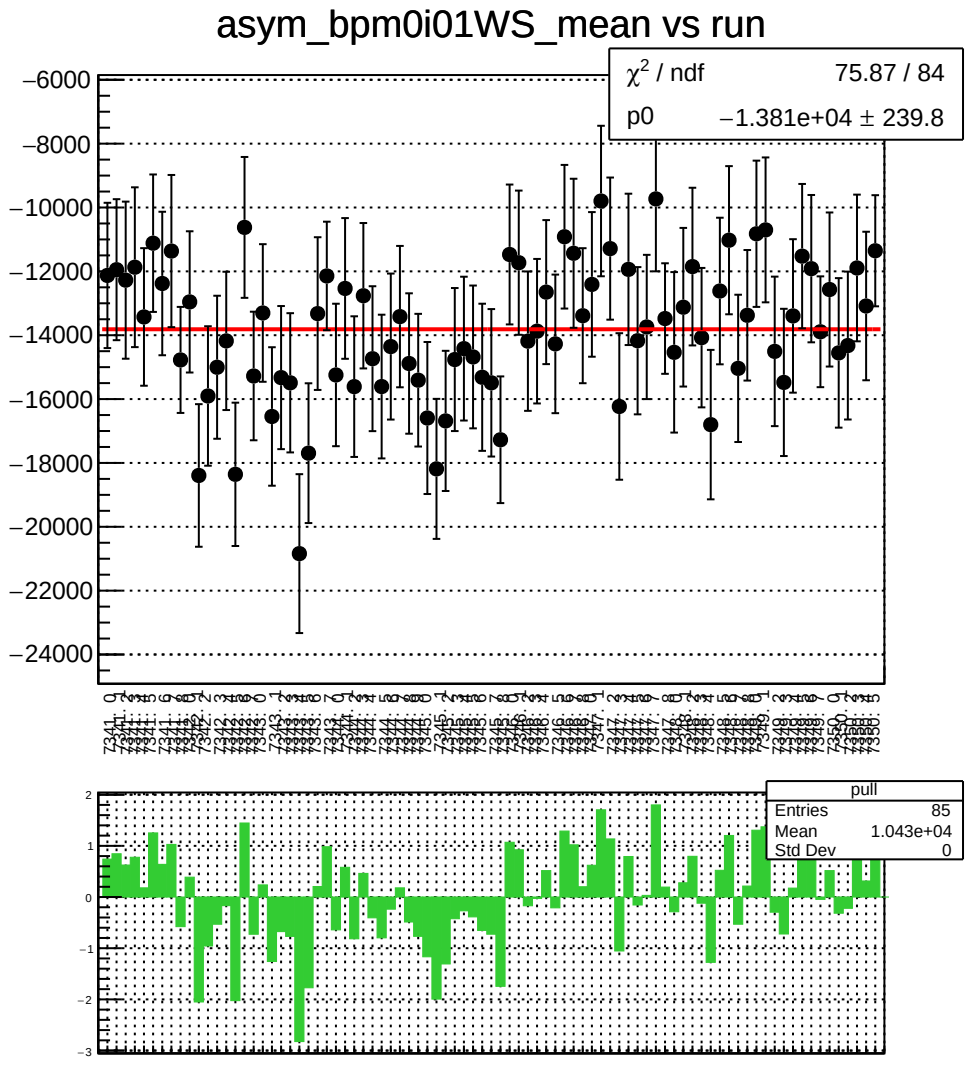

pull1D
Entries 85
Mean 0.002024
Std Dev 0.8512

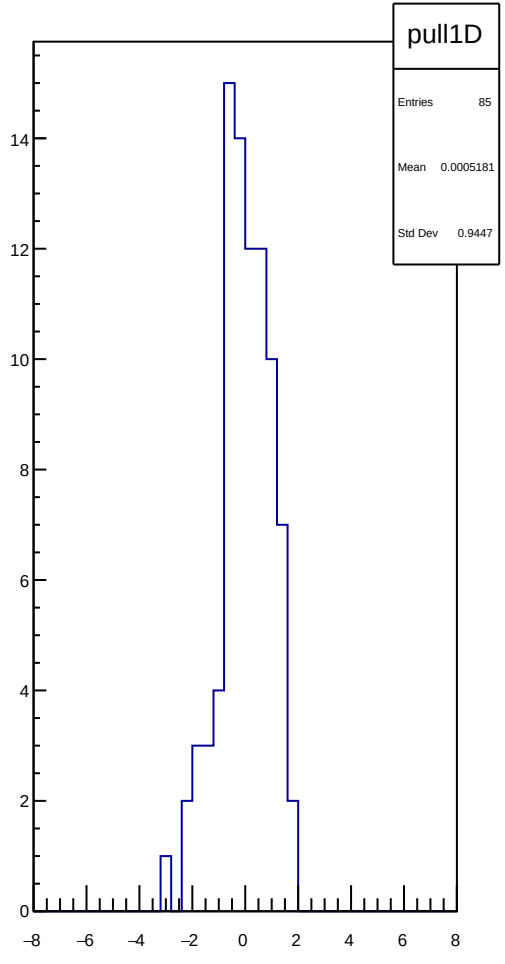

asym_bpm2i01WS_rms vs run
χ^2 / ndf 2529 / 84
p0 188.1 ± 0.1481
210
205
200
195
190
185
180
175

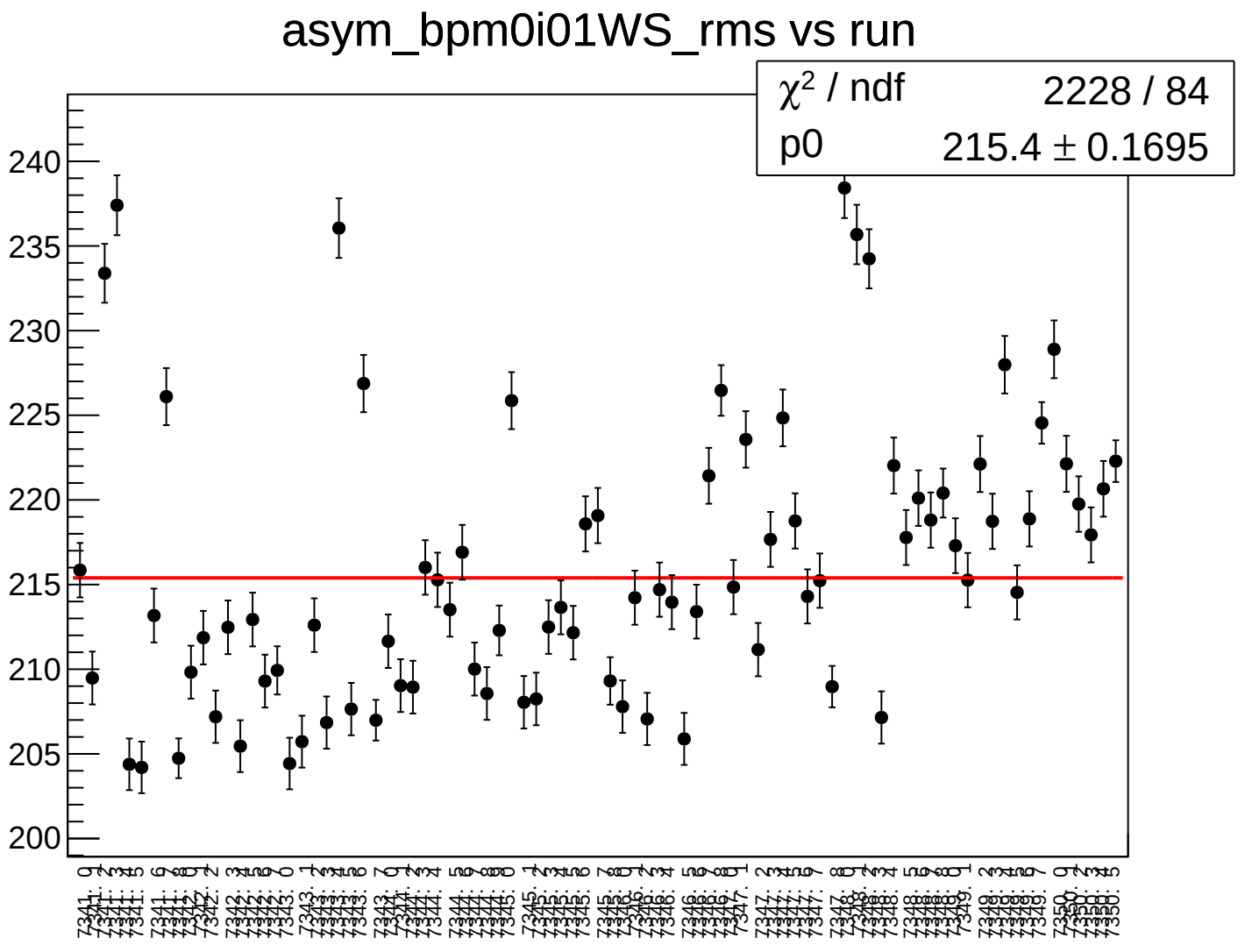

asym_bpm2i02WS_mean vs run
χ² / ndf 70.71 / 84
p0 −1.063e+04 ± 207.8
pull
Entries 85
Mean 2597
Std Dev 0

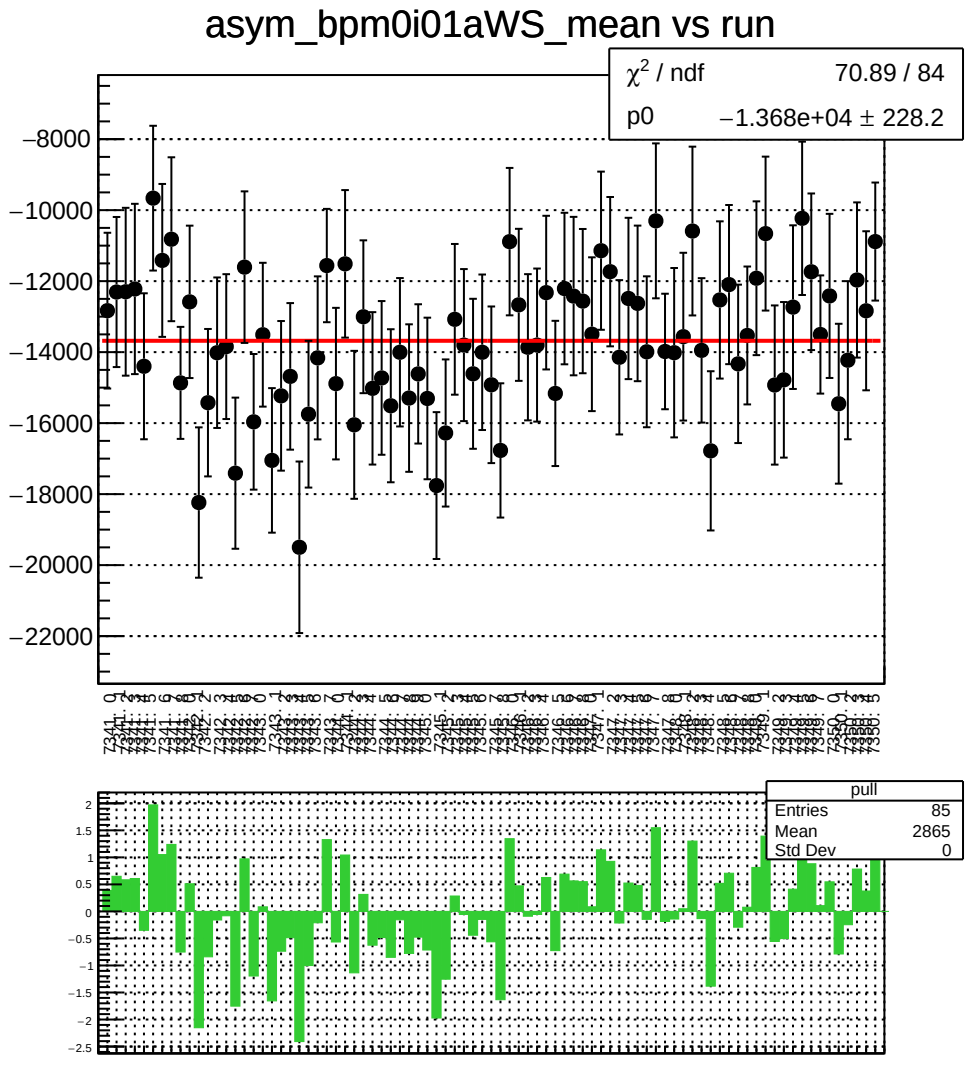

pull1D
Entries 85
Mean 0.002496
Std Dev 0.9121

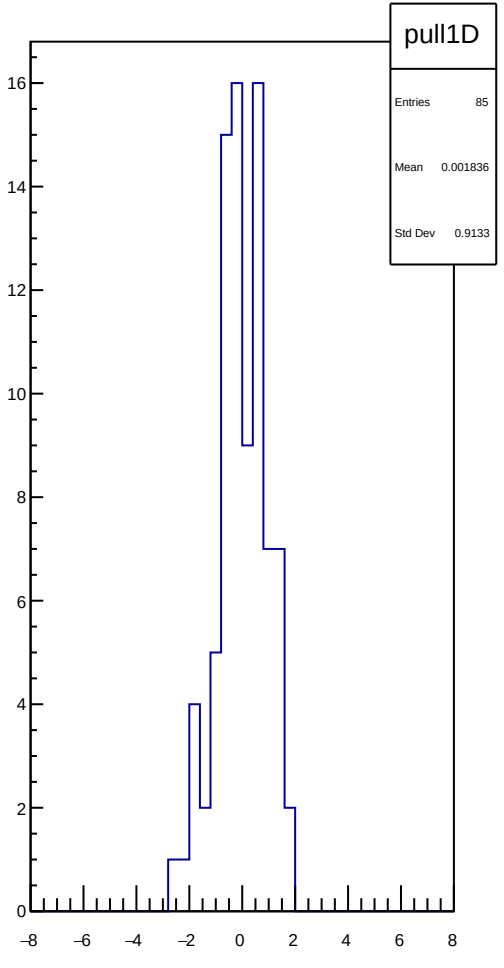

asym_bpm2i02WS_rms vs run
χ^2 / ndf 2721 / 84
p0 186.7 ± 0.147
210
205
200
195
190
185
180
175

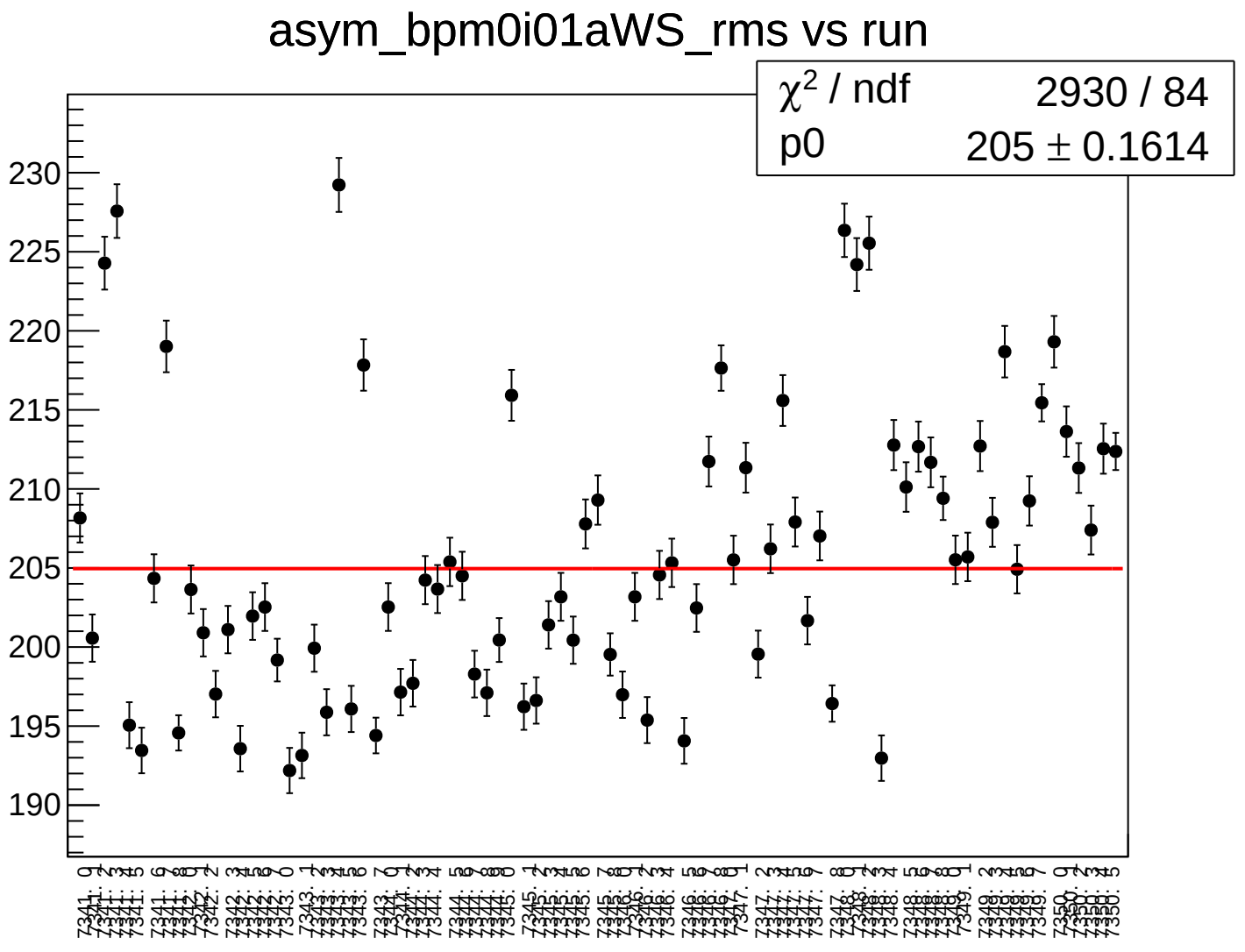

asym_bpm0i01WS_mean vs run
χ² / ndf 75.87 / 84
p0 −1.381e+04 ± 239.8
pull
Entries 85
Mean 1.043e+04
Std Dev 0

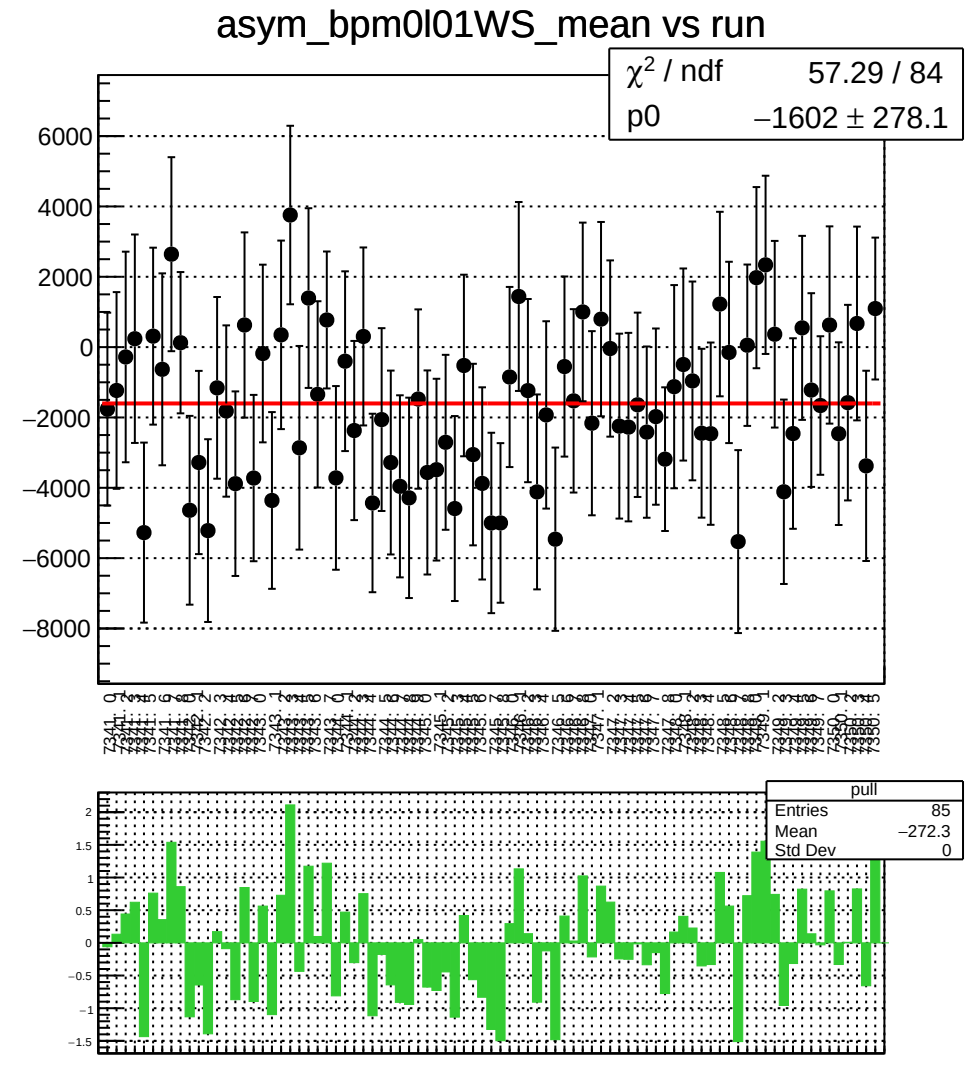

pull1D
Entries 85
Mean 0.0005181
Std Dev 0.9447

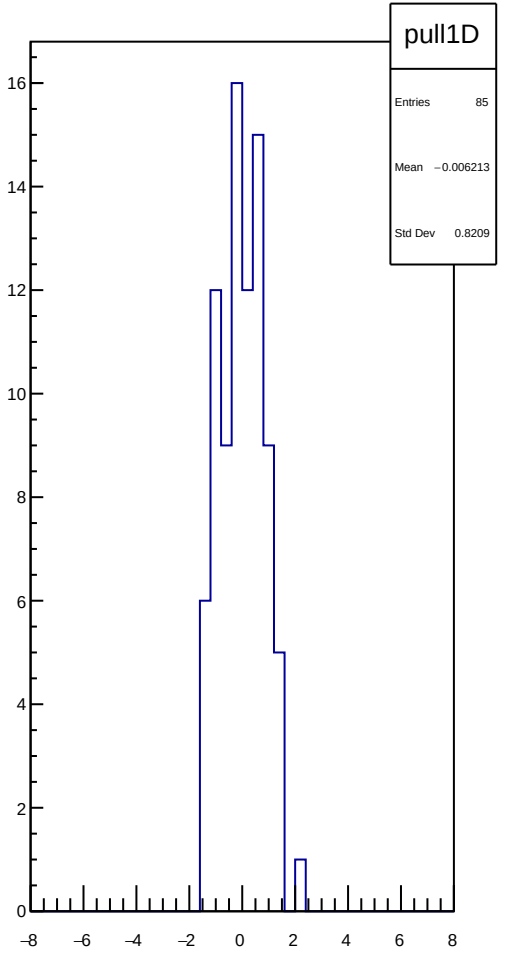

asym_bpm0i01WS_rms vs run
χ² / ndf 2228 / 84
p0 215.4 ± 0.1695
240
235
230
225
220
215
210
205
200

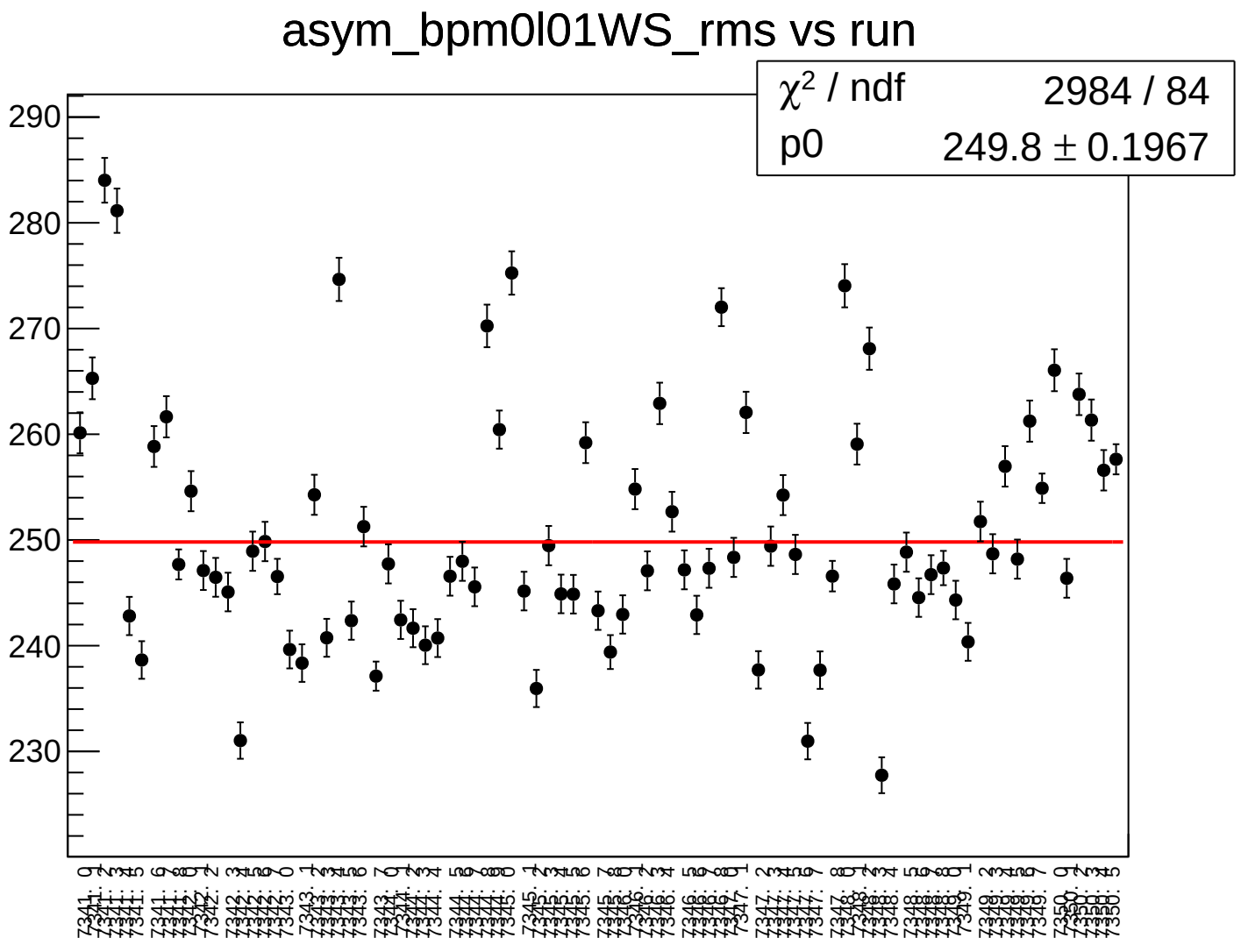

asym_bpm0i01aWS_mean vs run
χ² / ndf 70.89 / 84
p0 −1.368e+04 ± 228.2
−8000
−10000
−12000
−14000
−16000
−18000
−20000
−22000
pull
Entries 85
Mean 2865
Std Dev 0

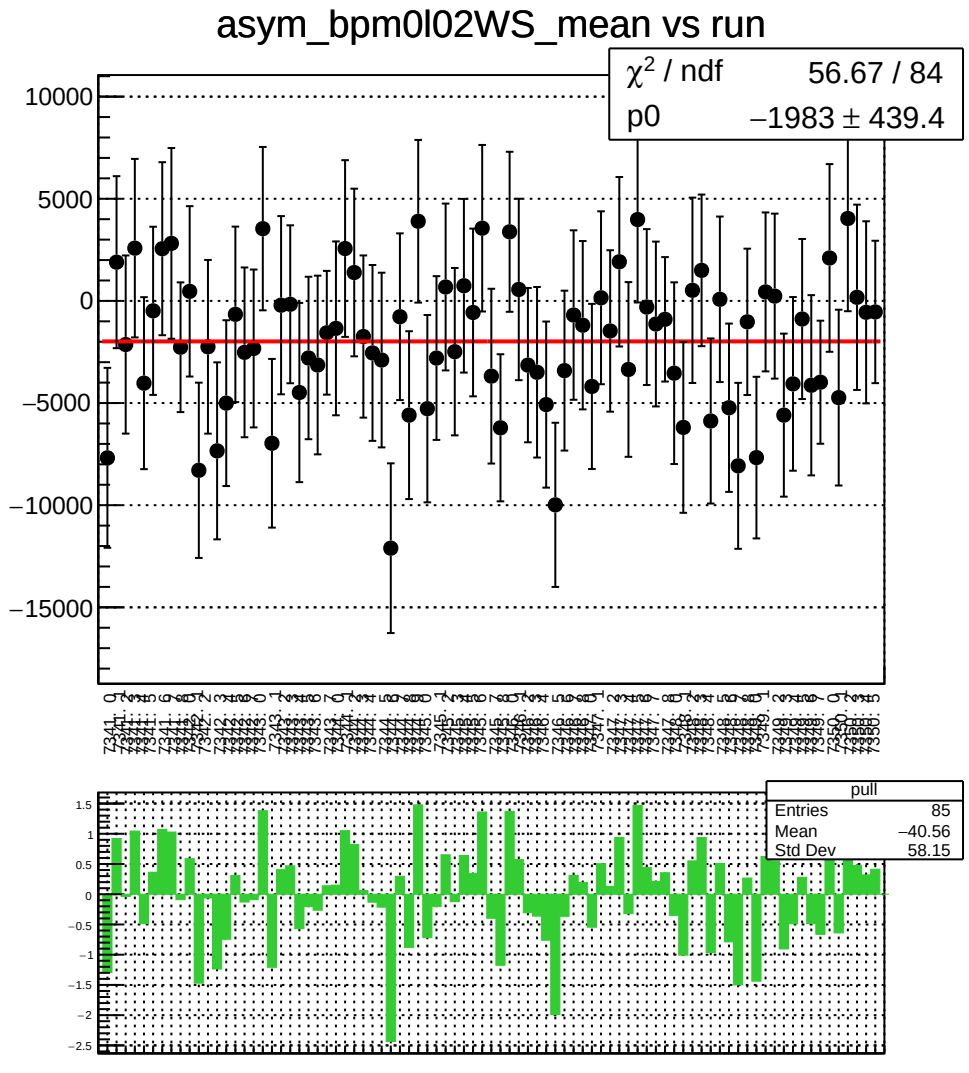

pull1D
Entries 85
Mean 0.001836
Std Dev 0.9133

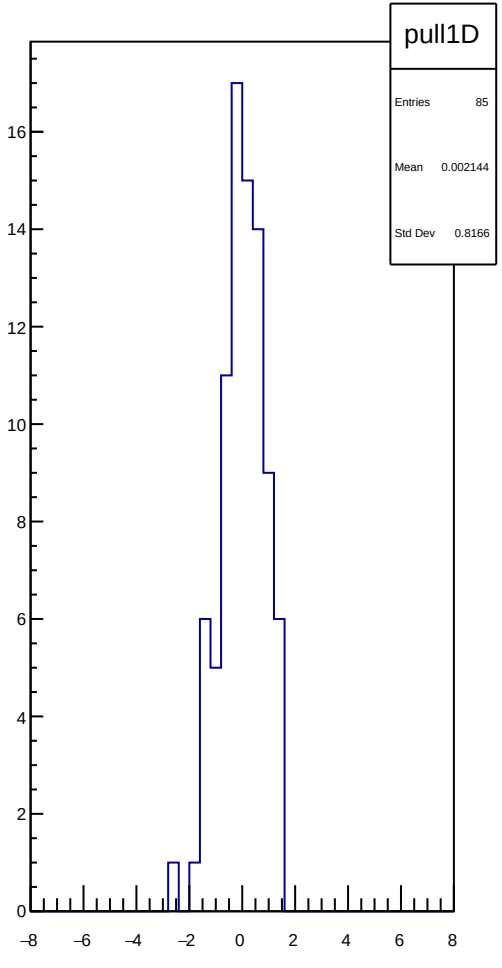

asym_bpm0i01aWS_rms vs run
χ² / ndf 2930 / 84
p0 205 ± 0.1614
230
225
220
215
210
205
200
195
190

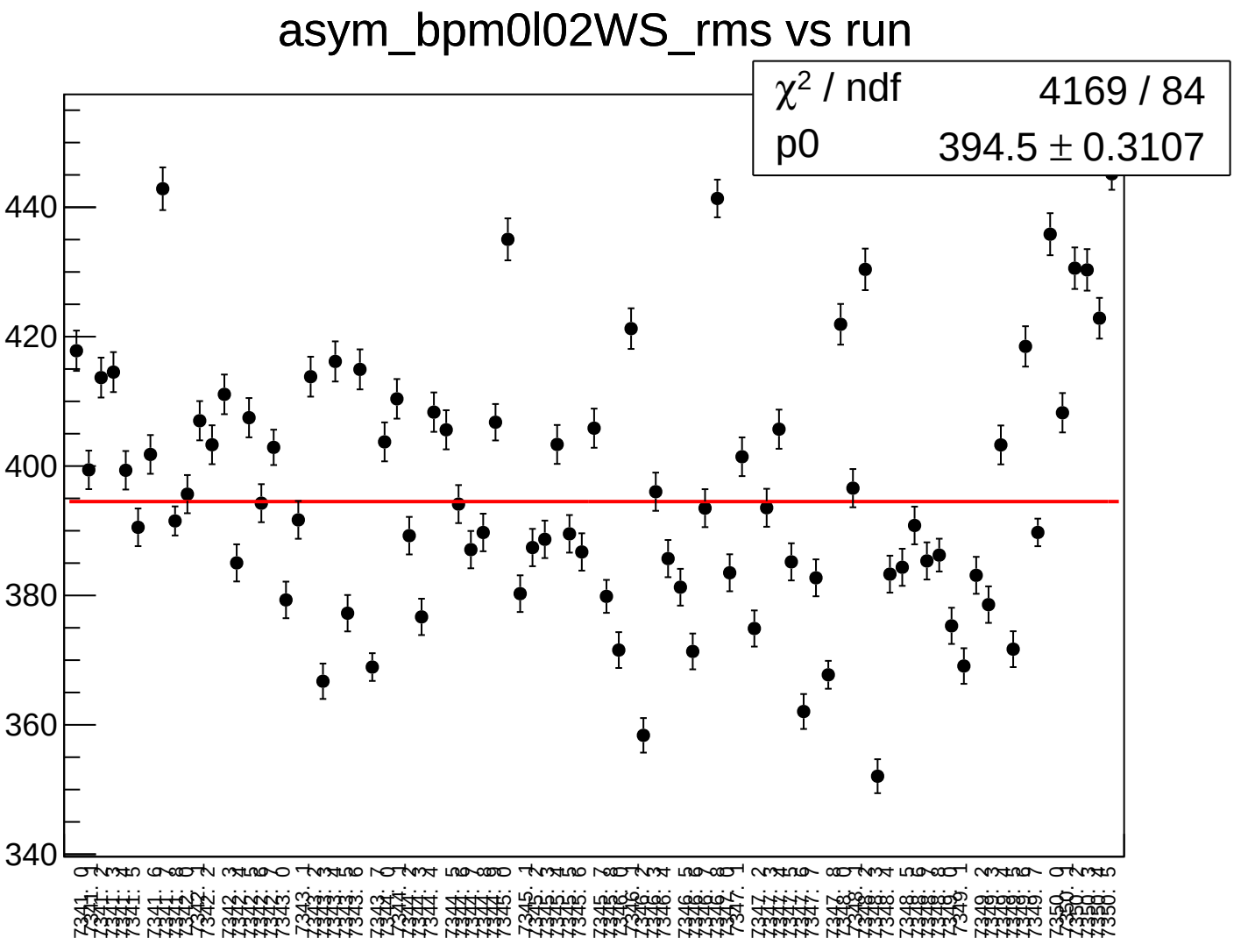

asym_bpm0l01WS_mean vs run
χ² / ndf 57.29 / 84
p0 −1602 ± 278.1
pull
Entries 85
Mean −272.3
Std Dev 0

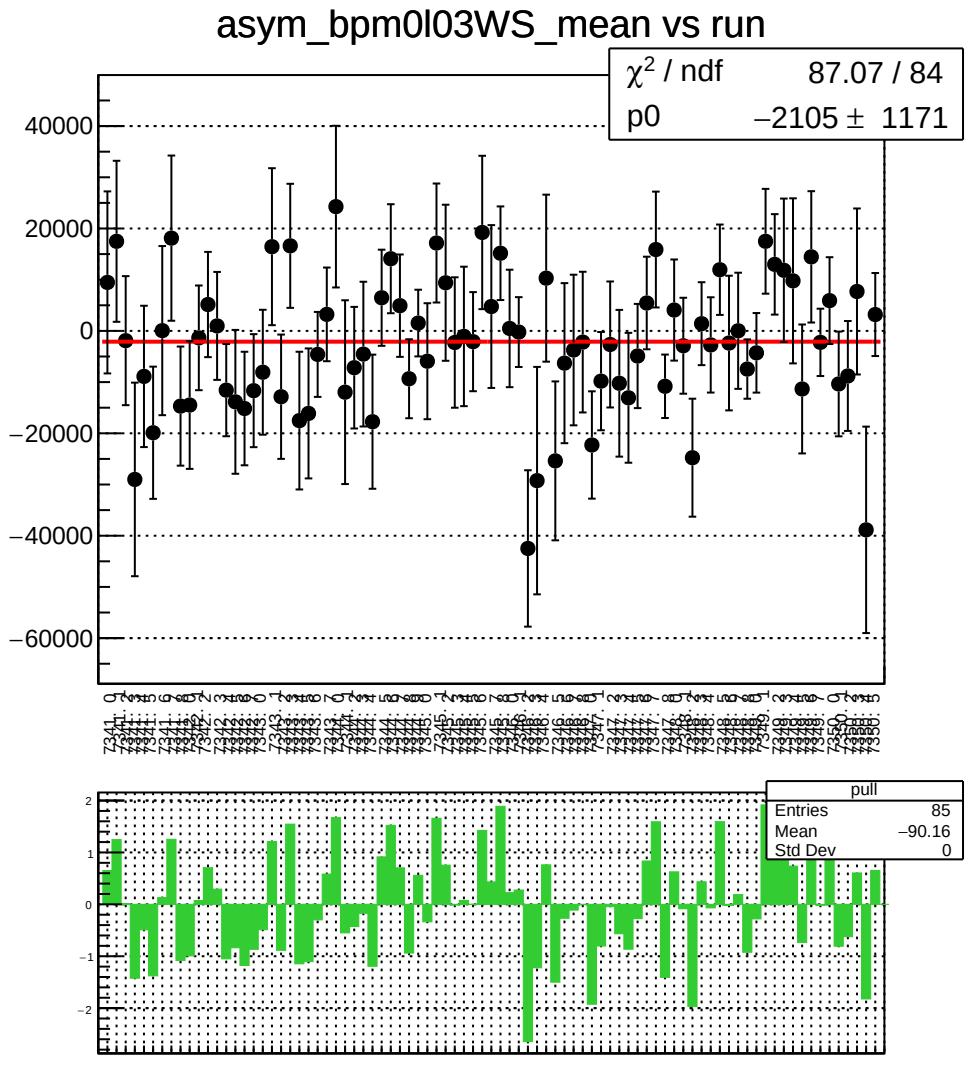

pull1D
Entries 85
Mean −0.006213
Std Dev 0.8209

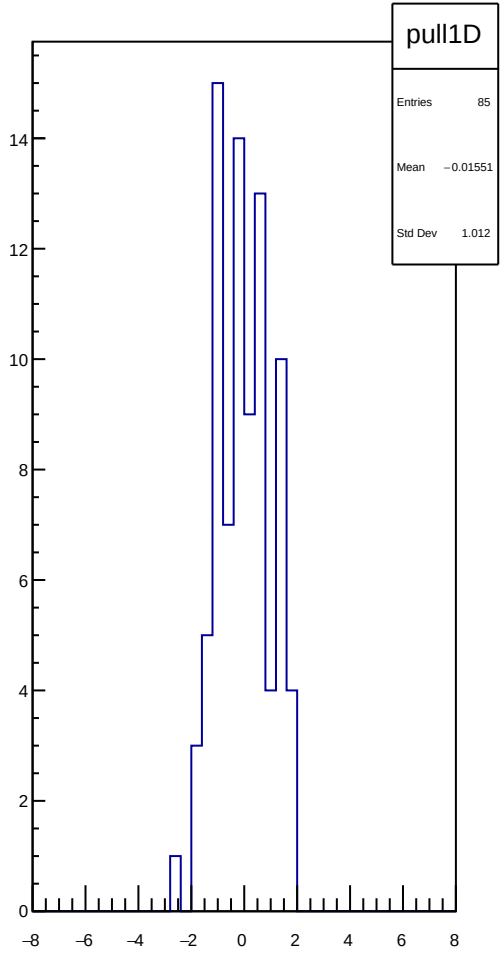

asym_bpm0l01WS_rms vs run
χ² / ndf 2984 / 84
p0 249.8 ± 0.1967
290
280
270
260
250
240
230

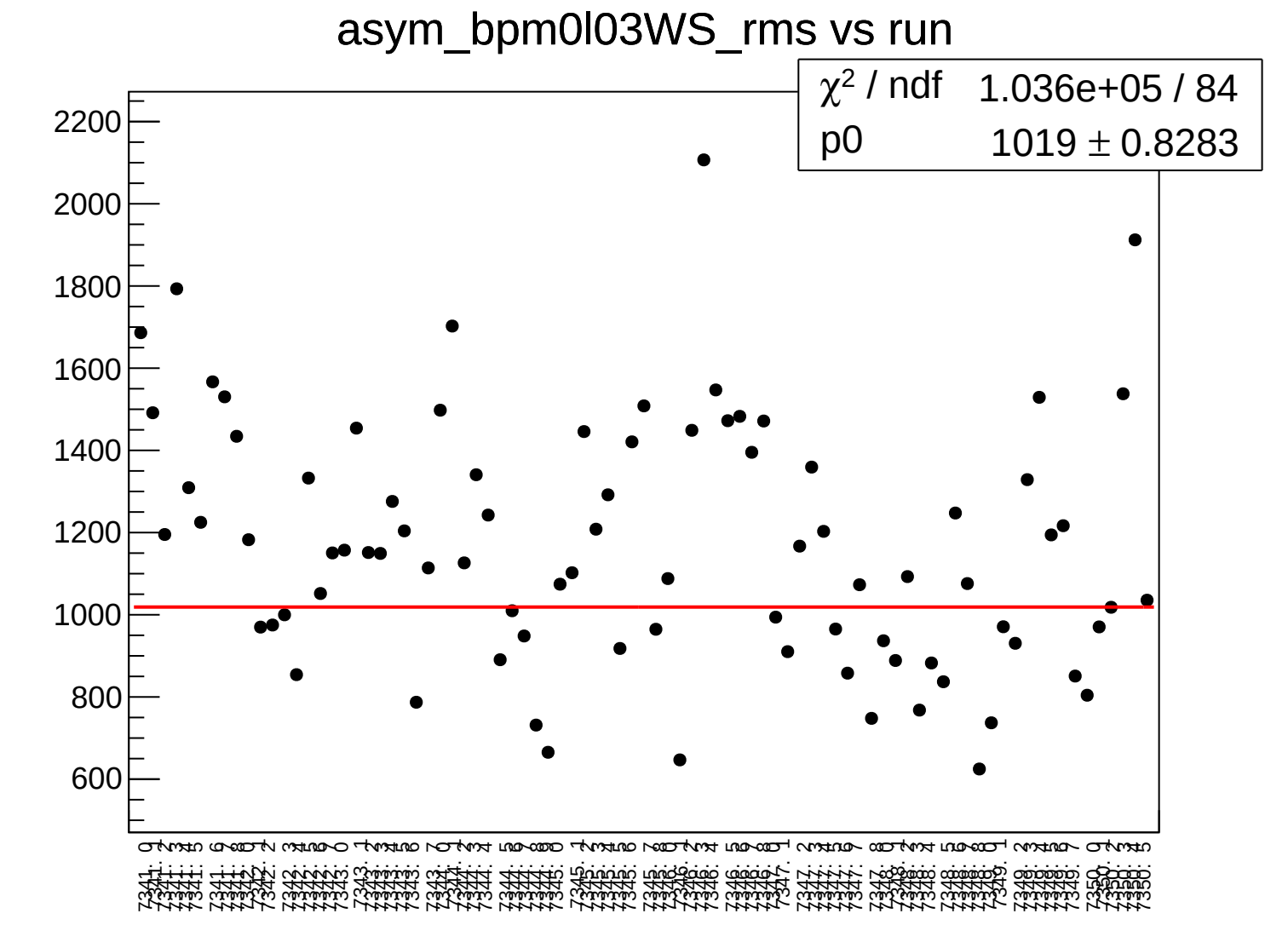

asym_bpm0l02WS_mean vs run
χ² / ndf 56.67 / 84
p0 −1983 ± 439.4
pull
Entries 85
Mean −40.56
Std Dev 58.15

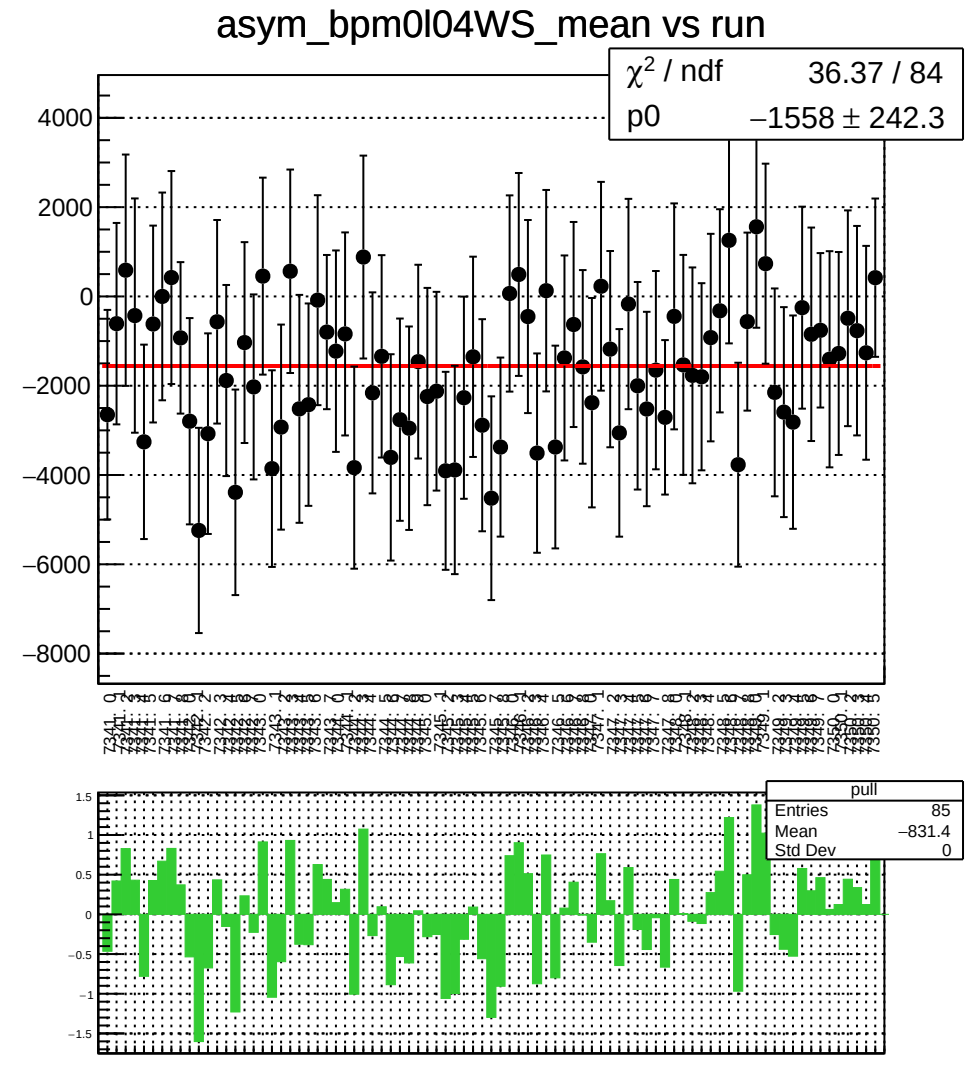

pull1D
Entries 85
Mean 0.002144
Std Dev 0.8166

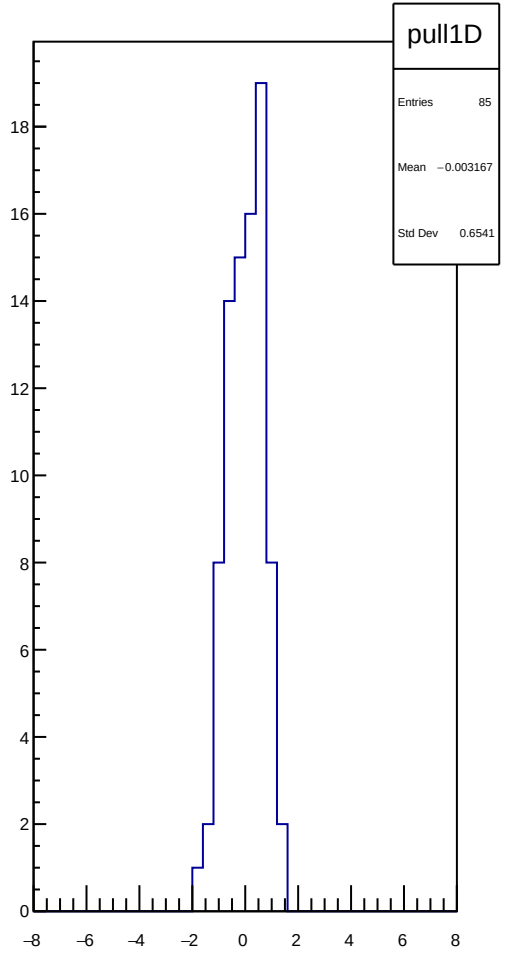

asym_bpm0l02WS_rms vs run
χ^2 / ndf 4169 / 84
p0 394.5 ± 0.3107
440
420
400
380
360
340

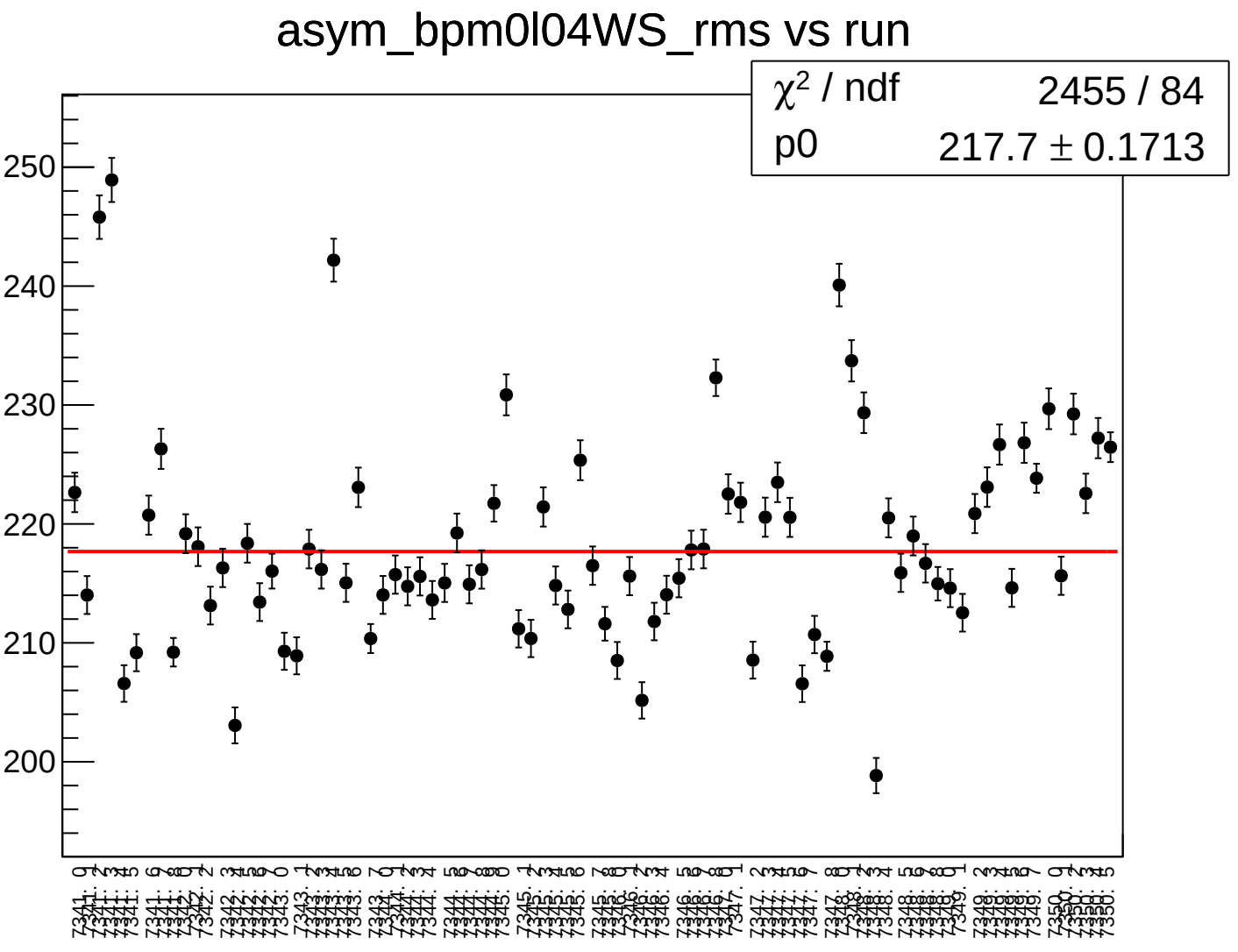

asym_bpm0l03WS_mean vs run
χ² / ndf 87.07 / 84
p0 −2105 ± 1171
pull
Entries 85
Mean −90.16
Std Dev 0

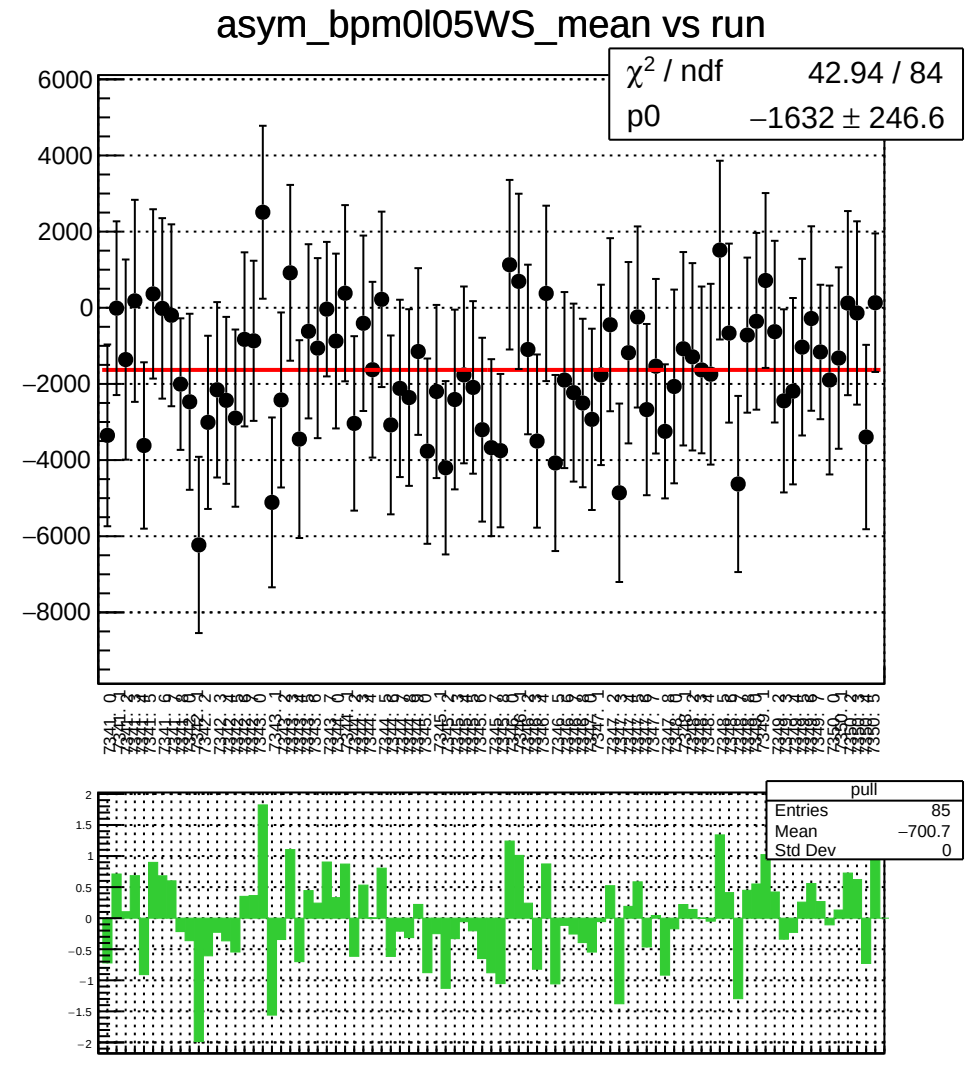

pull1D
Entries 85
Mean −0.01551
Std Dev 1.012

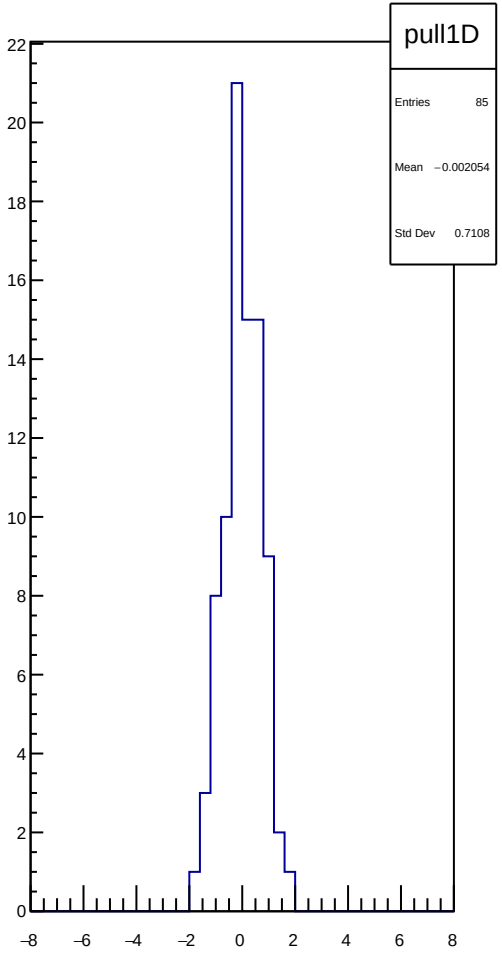

asym_bpm0l03WS_rms vs run
χ^2 / ndf 1.036e+05 / 84
p0 1019 ± 0.8283
2200
2000
1800
1600
1400
1200
1000
800
600

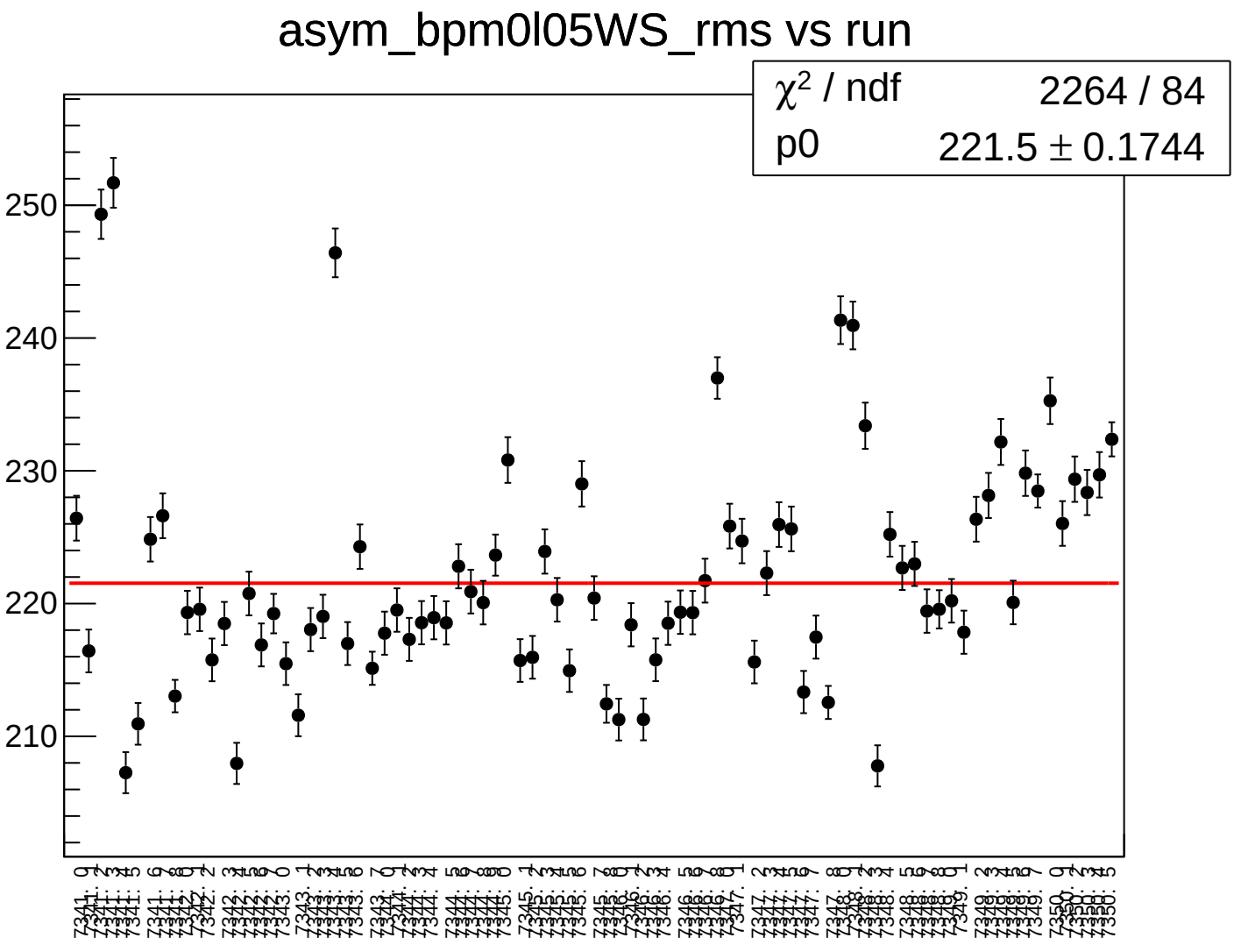

asym_bpm0l04WS_mean vs run
χ² / ndf 36.37 / 84
p0 −1558 ± 242.3
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 85
Mean −831.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

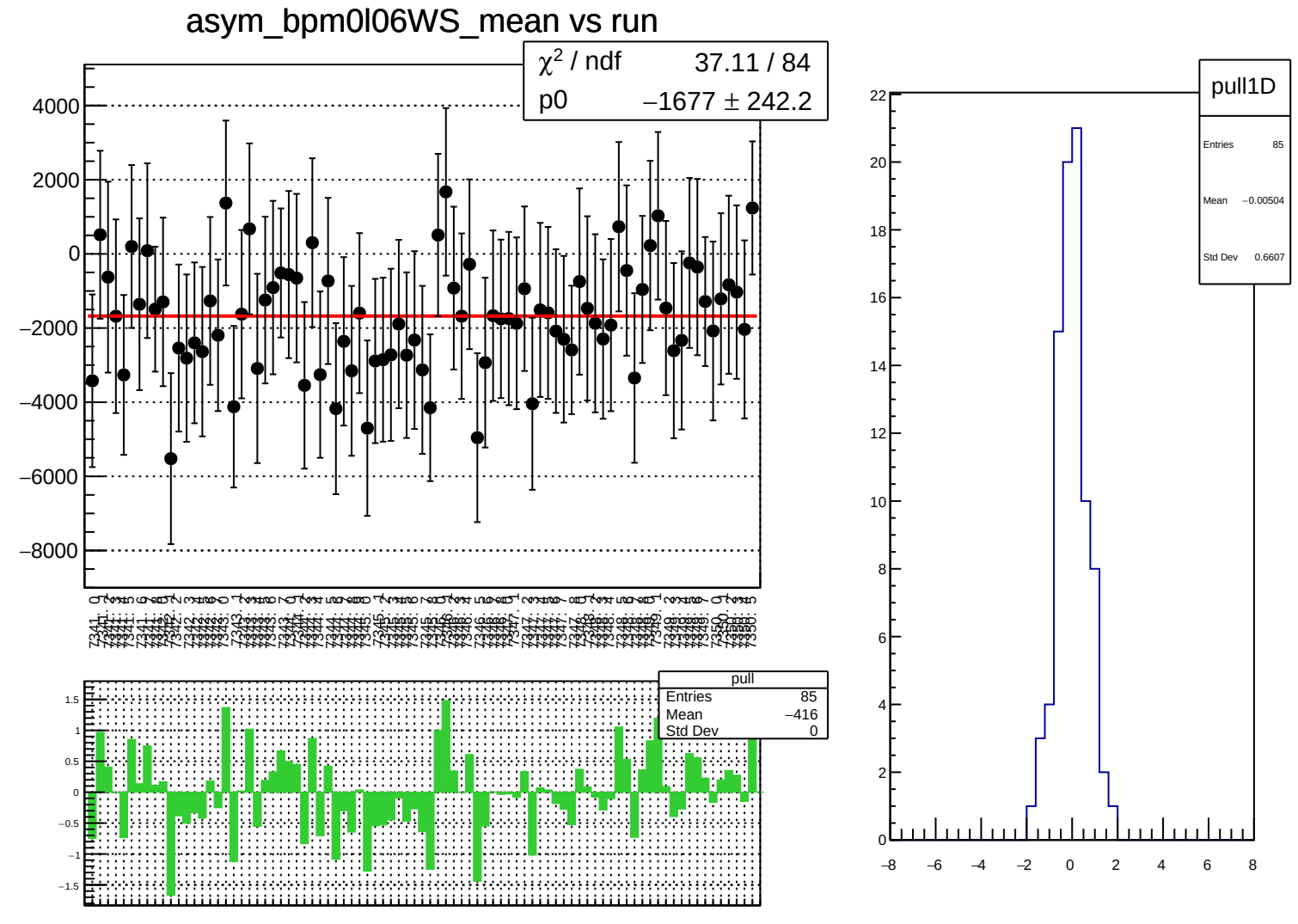

pull1D
Entries 85
Mean −0.003167
Std Dev 0.6541
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

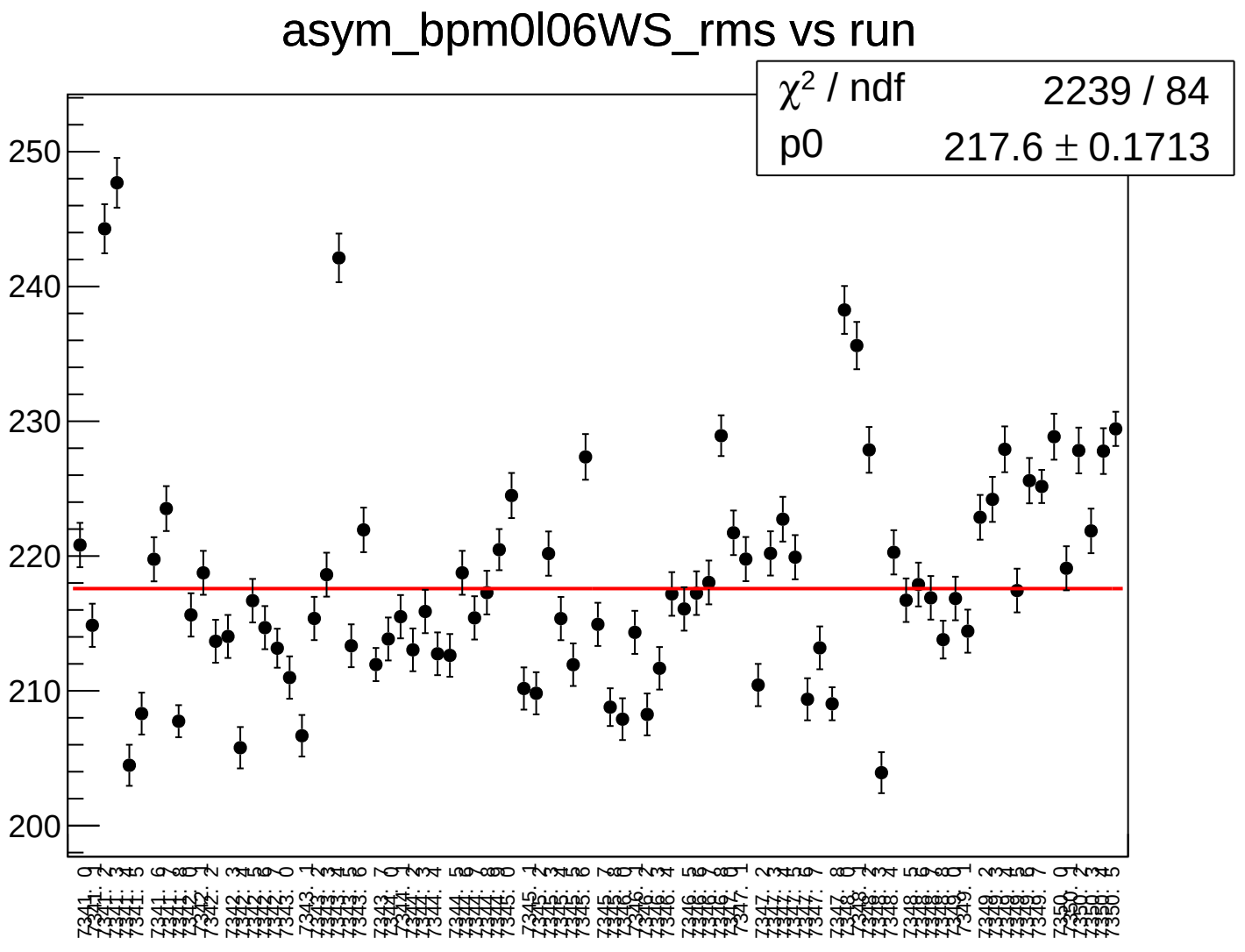

asym_bpm0l04WS_rms vs run
χ² / ndf 2455 / 84
p0 217.7 ± 0.1713
250
240
230
220
210
200

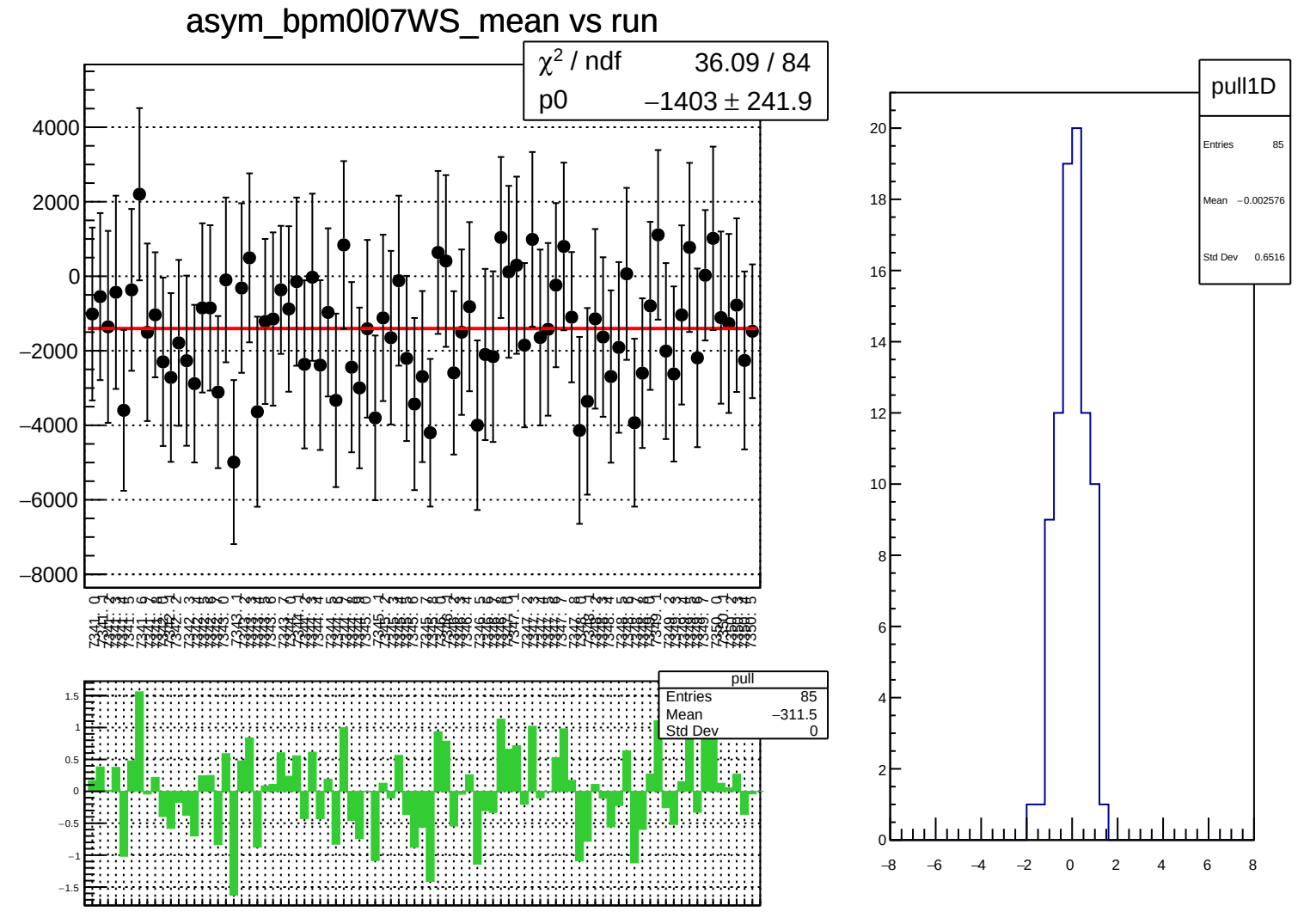

asym_bpm0l05WS_mean vs run
χ² / ndf 42.94 / 84
p0 −1632 ± 246.6
pull
Entries 85
Mean −700.7
Std Dev 0

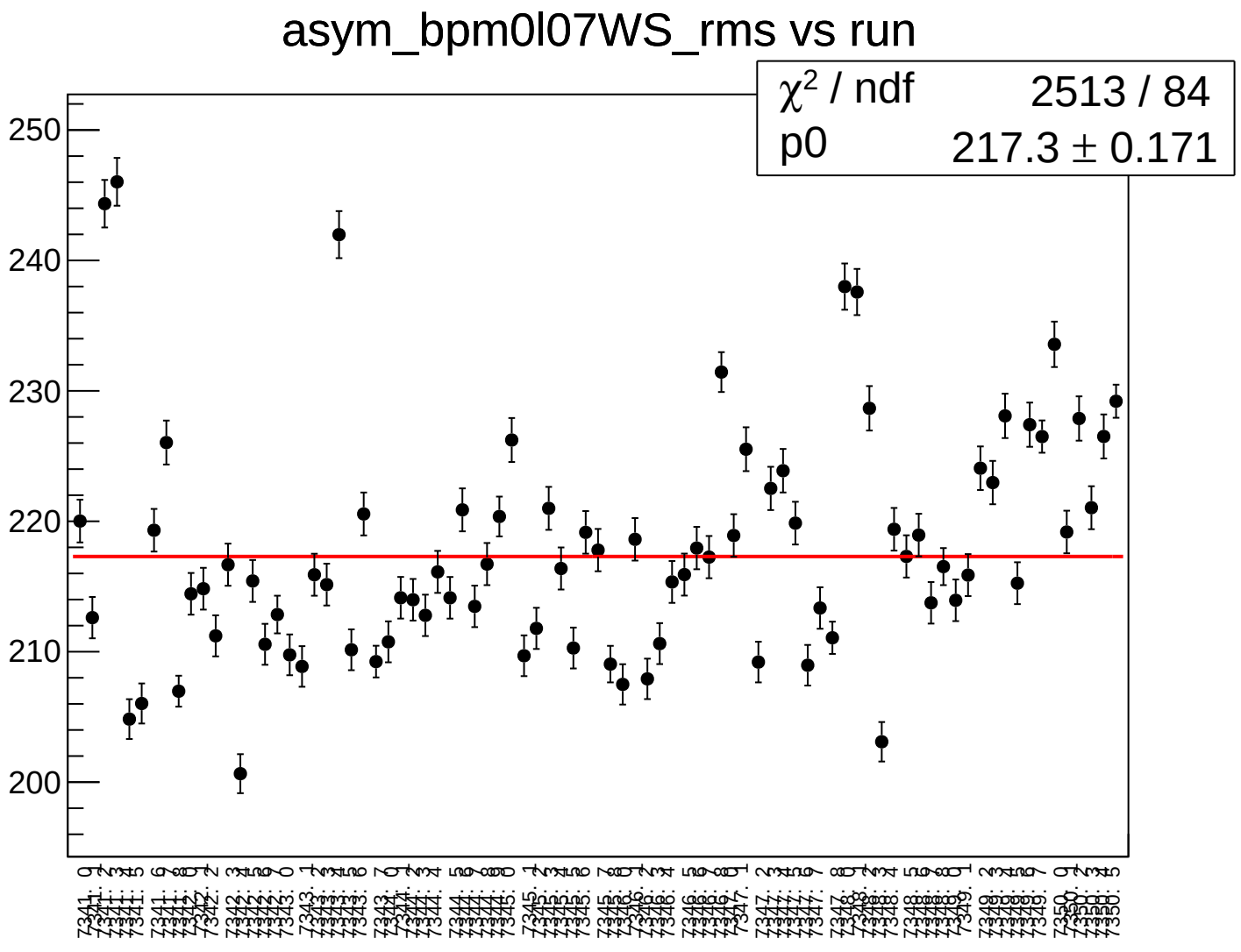

pull1D
Entries 85
Mean −0.002054
Std Dev 0.7108

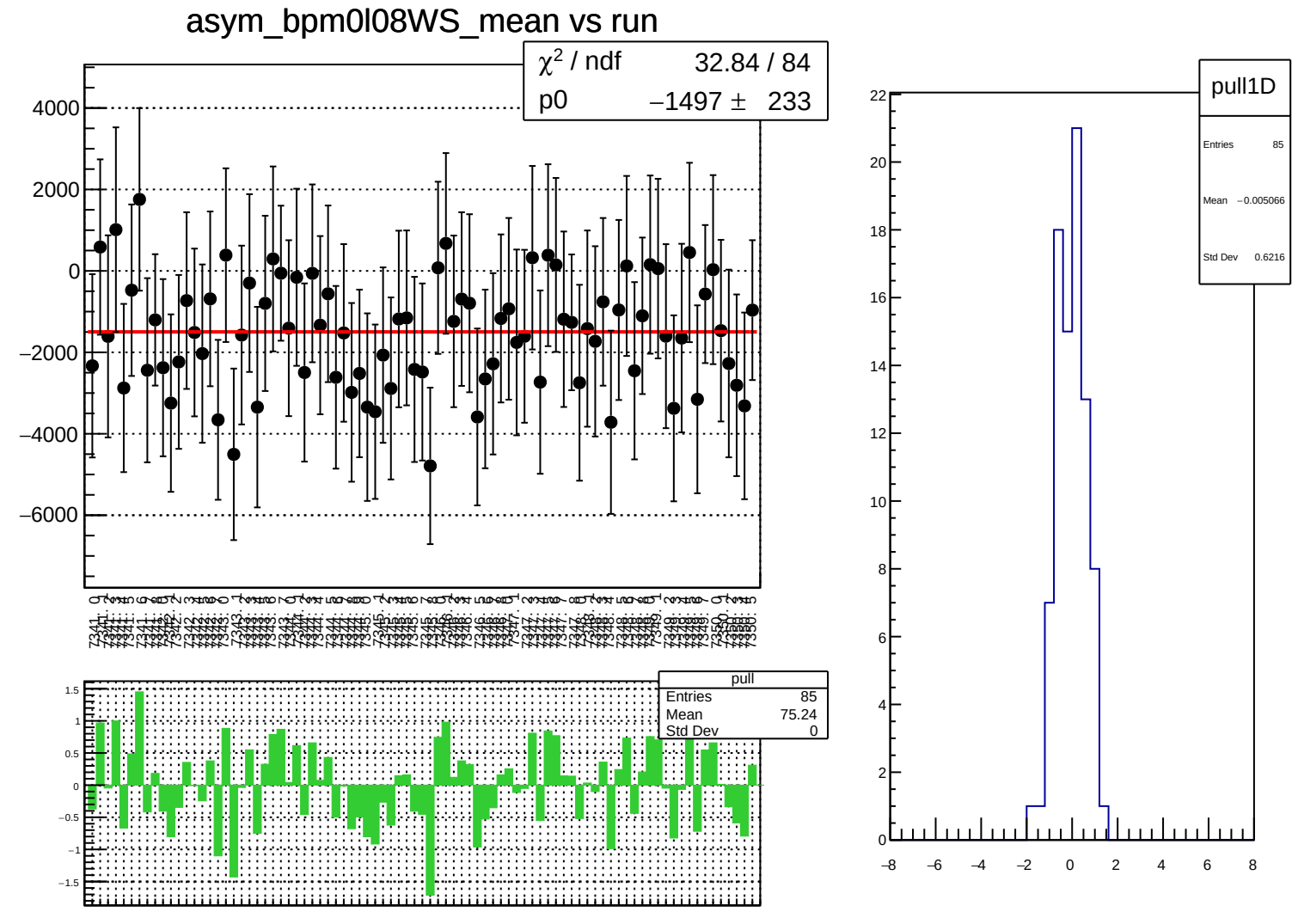

asym_bpm0l05WS_rms vs run
χ² / ndf 2264 / 84
p0 221.5 ± 0.1744
250
240
230
220
210

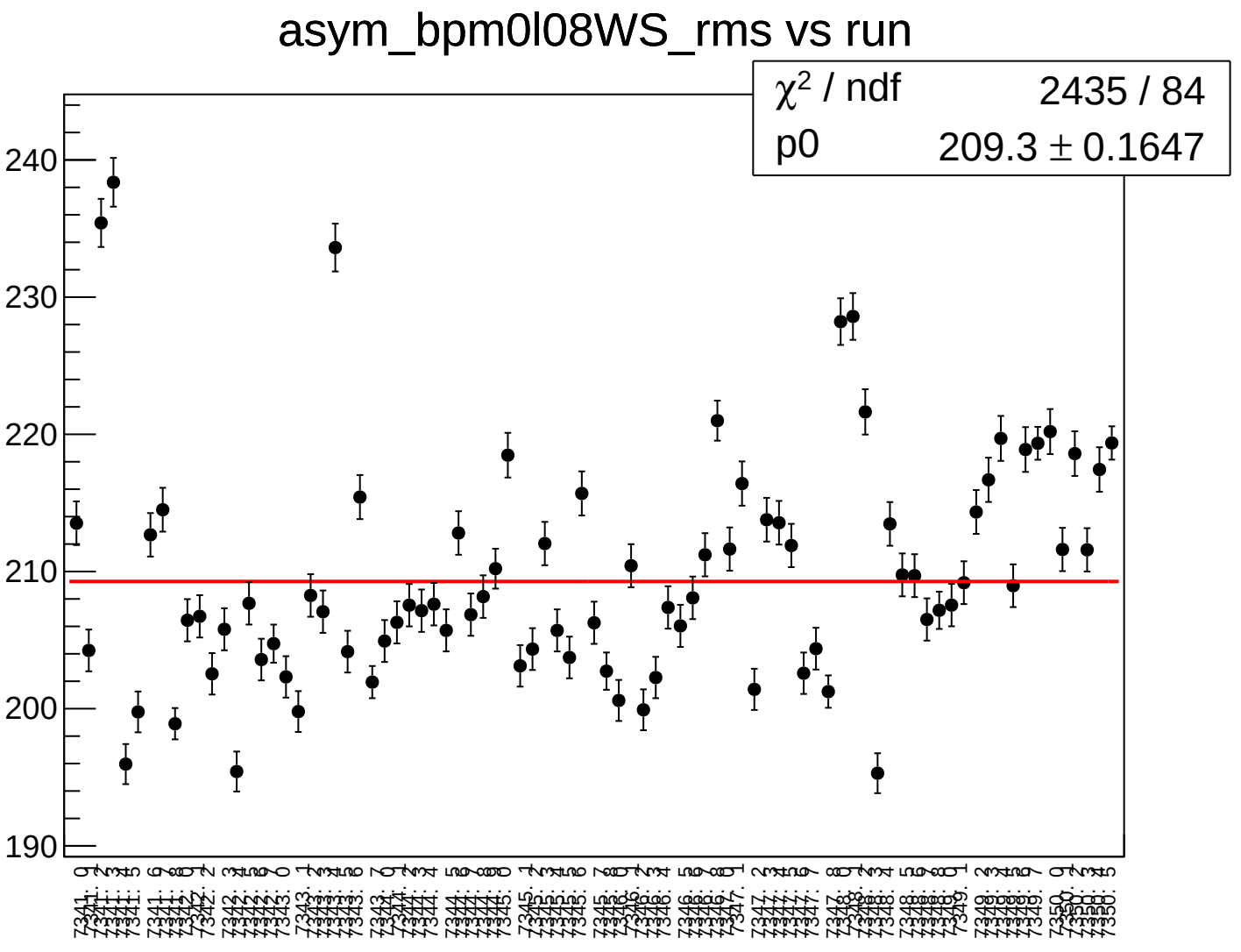

asym_bpm0l06WS_mean vs run
χ² / ndf 37.11 / 84
p0 −1677 ± 242.2
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 85
Mean −416
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.00504
Std Dev 0.6607
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

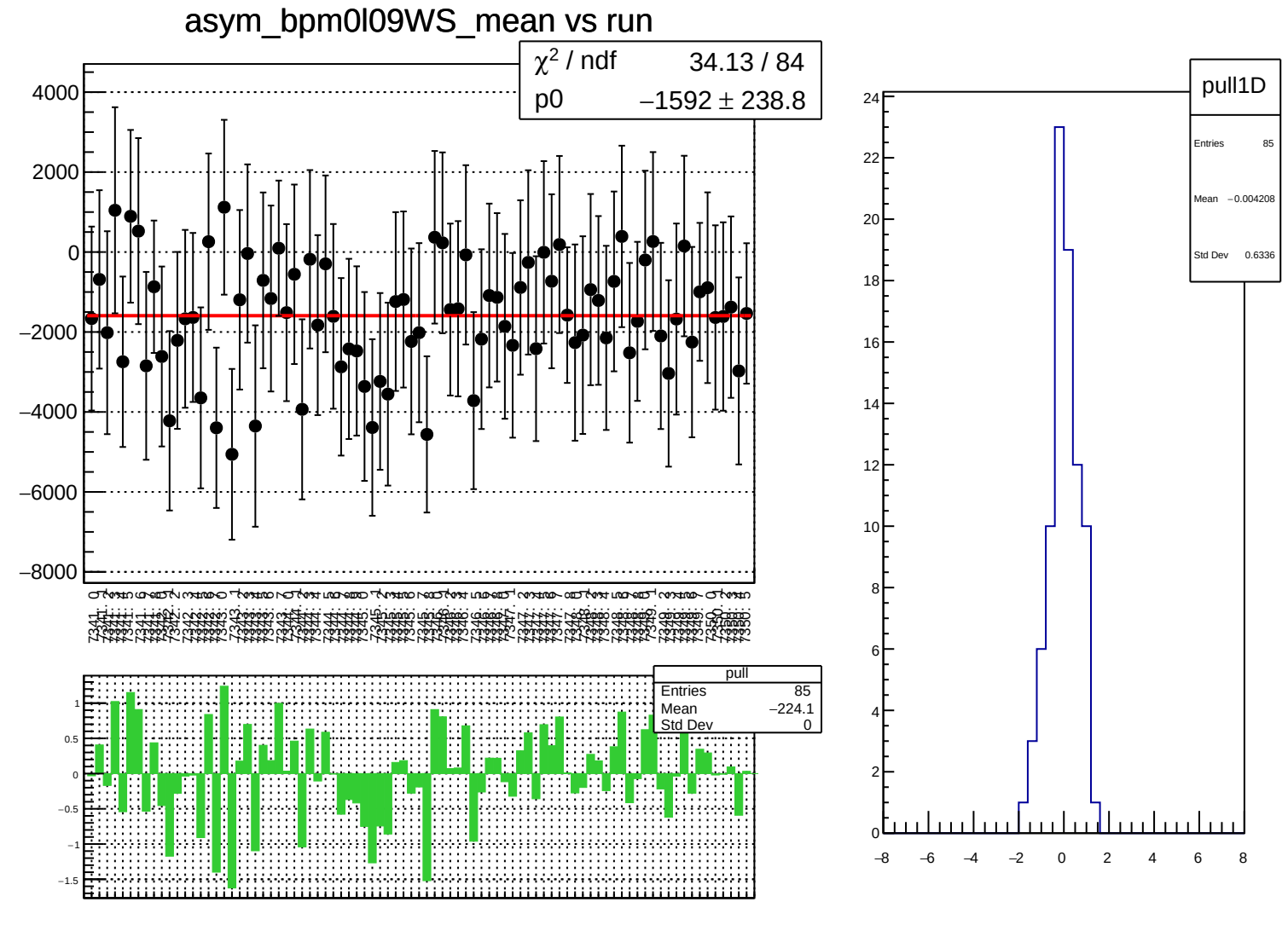

asym_bpm0l06WS_rms vs run
χ² / ndf 2239 / 84
p0 217.6 ± 0.1713
250
240
230
220
210
200

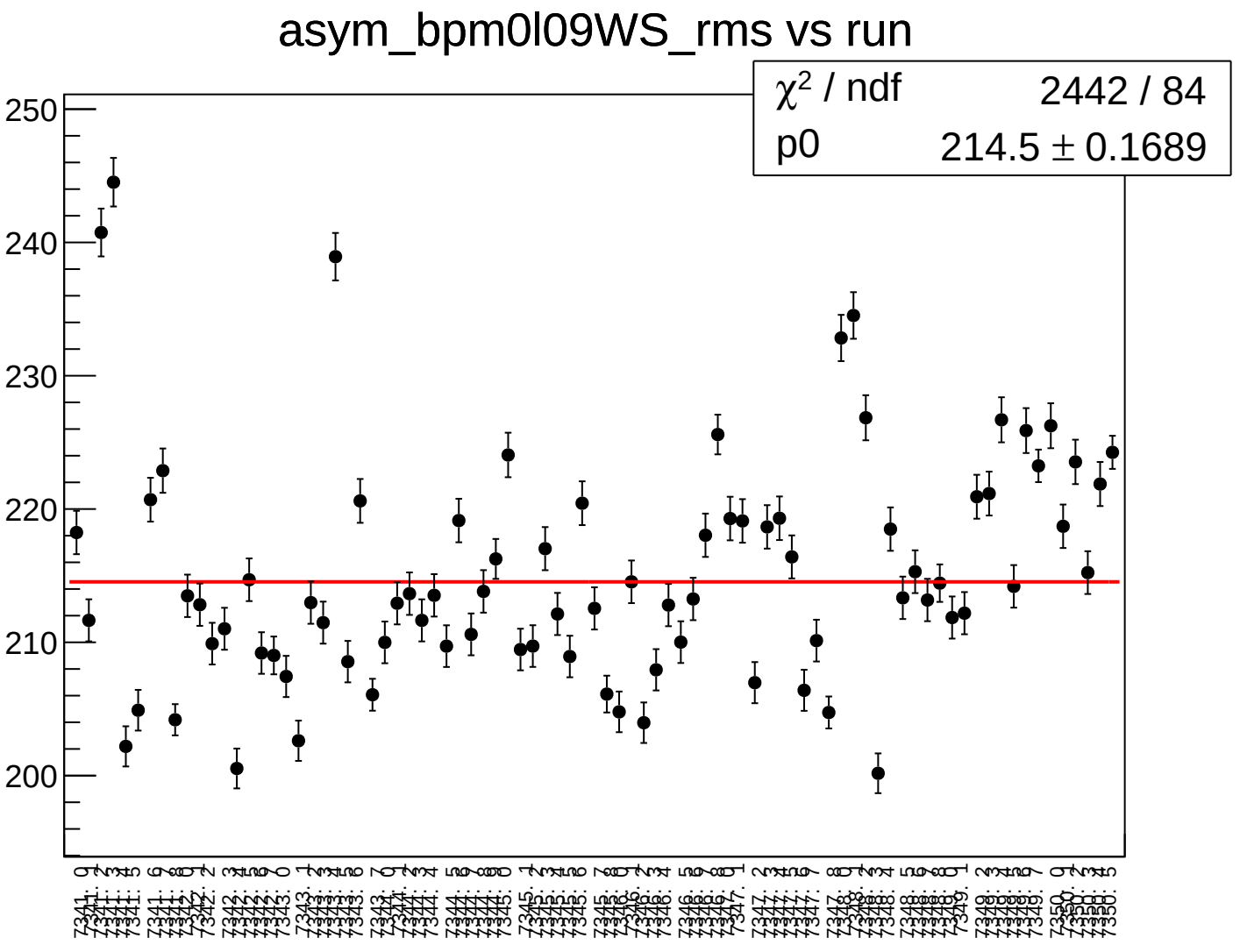

asym_bpm0l07WS_mean vs run
χ^2 / ndf 36.09 / 84
p0 −1403 ± 241.9
pull
Entries 85
Mean −311.5
Std Dev 0
pull1D
Entries 85
Mean −0.002576
Std Dev 0.6516

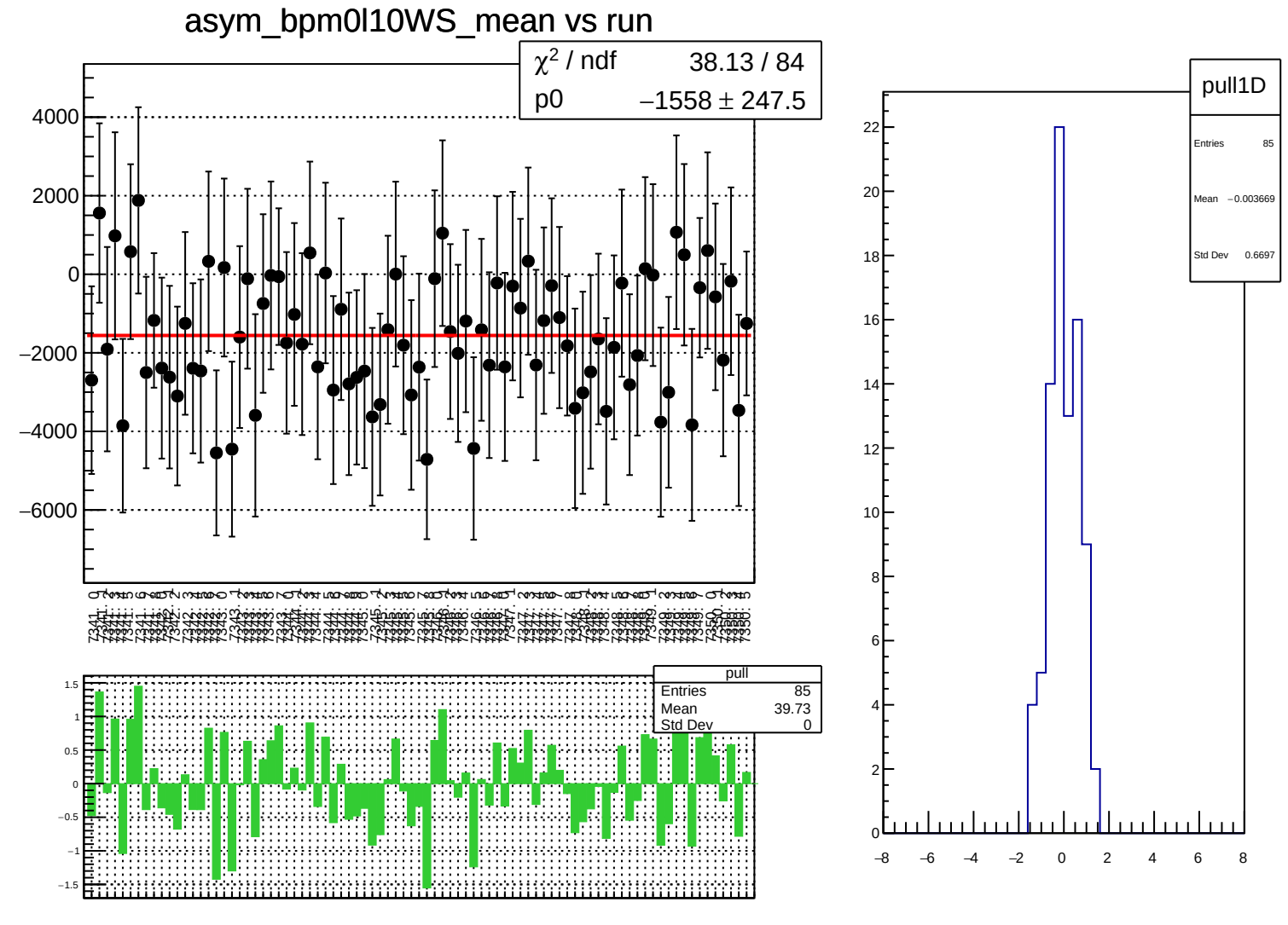

asym_bpm0l07WS_rms vs run
χ² / ndf 2513 / 84
p0 217.3 ± 0.171
250
240
230
220
210
200

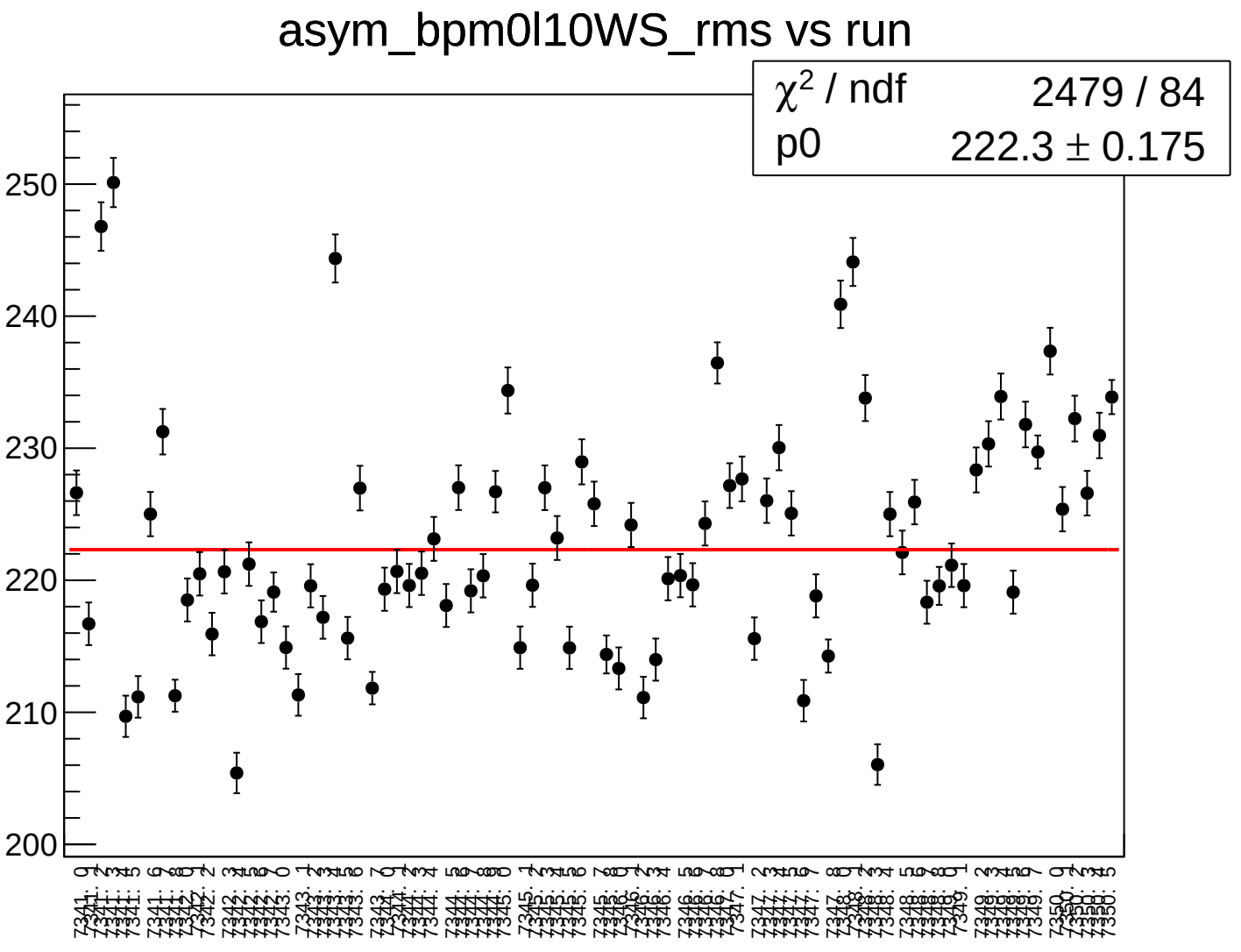

asym_bpm0l08WS_mean vs run
χ² / ndf 32.84 / 84
p0 −1497 ± 233
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 75.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.005066
Std Dev 0.6216
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

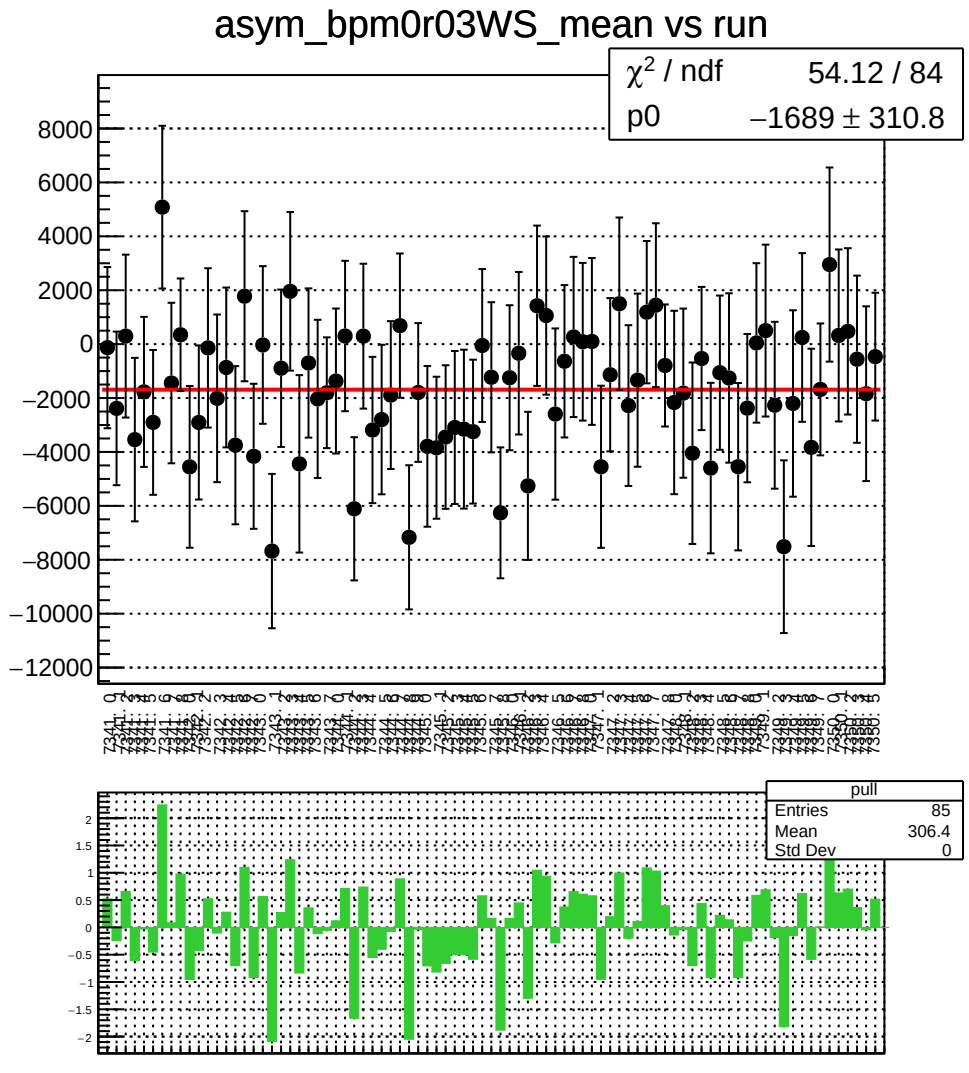

asym_bpm0l08WS_rms vs run
χ² / ndf 2435 / 84
p0 209.3 ± 0.1647
240
230
220
210
200
190

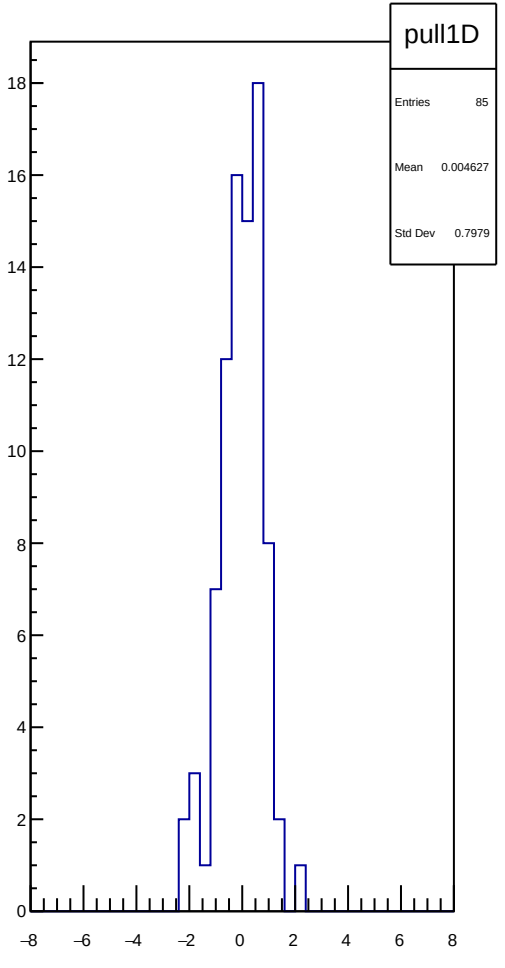

asym_bpm0l09WS_mean vs run
χ² / ndf 34.13 / 84
p0 −1592 ± 238.8
pull
Entries 85
Mean −224.1
Std Dev 0
pull1D
Entries 85
Mean −0.004208
Std Dev 0.6336

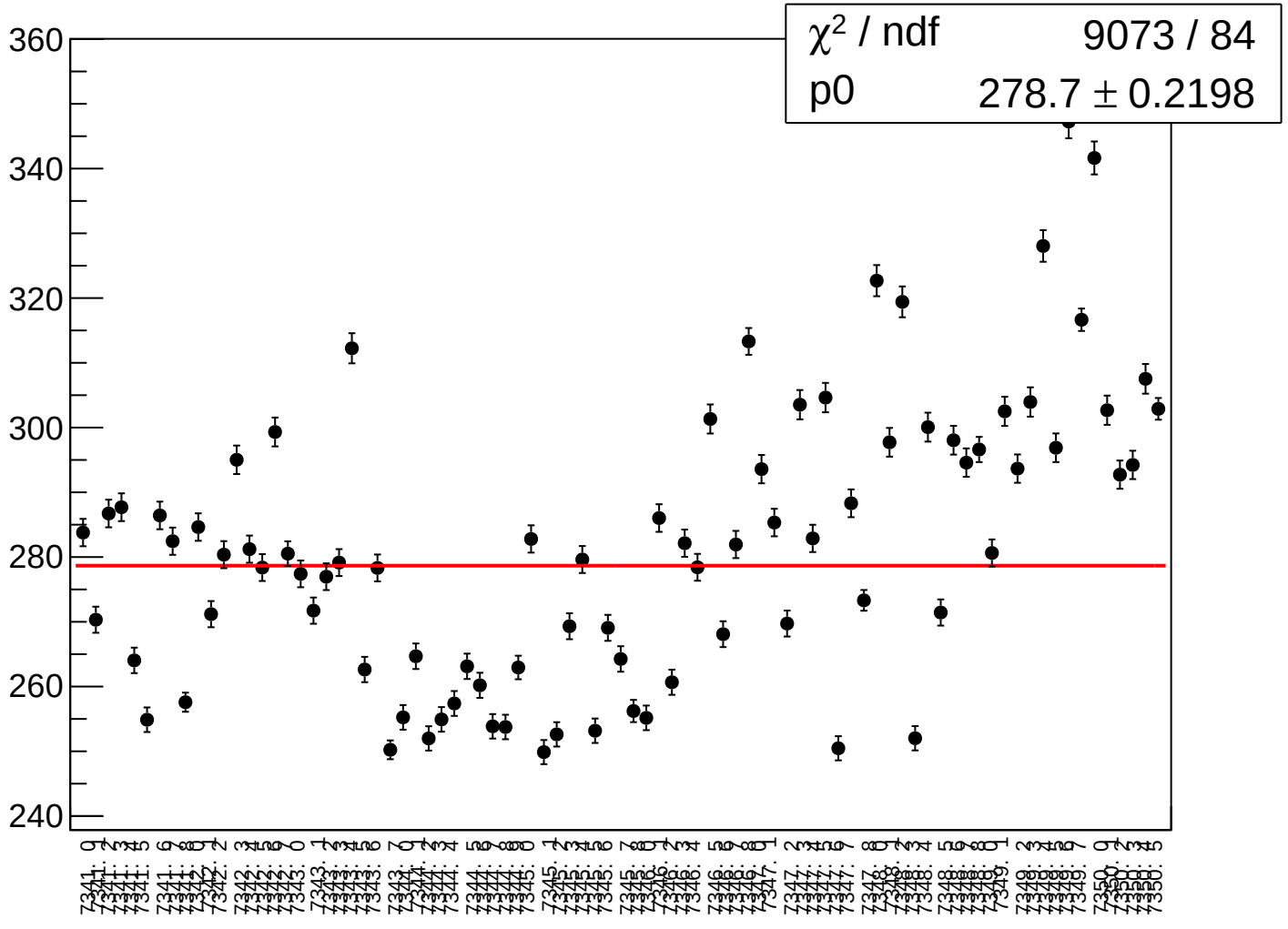

asym_bpm0l09WS_rms vs run
χ² / ndf 2442 / 84
p0 214.5 ± 0.1689
250
240
230
220
210
200

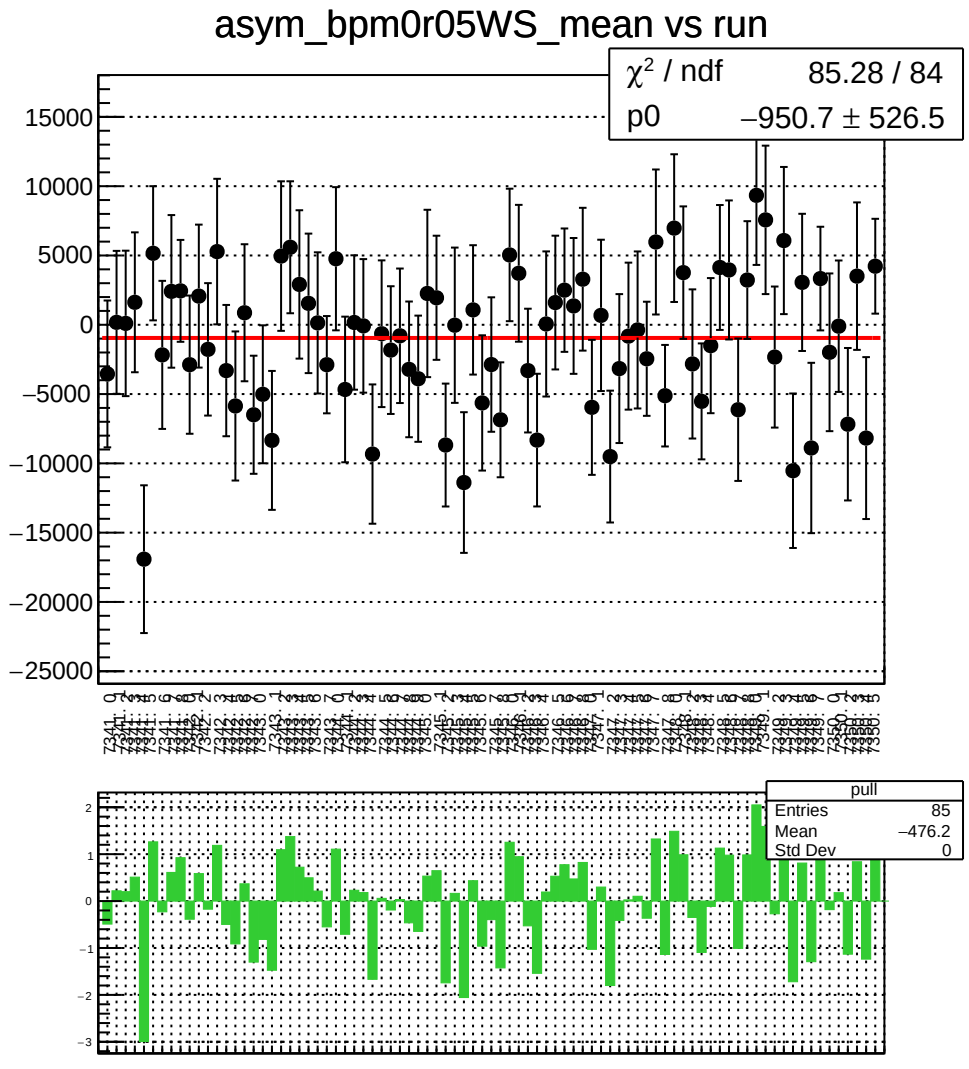

asym_bpm0l10WS_mean vs run
χ² / ndf 38.13 / 84
p0 −1558 ± 247.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 39.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean −0.003669
Std Dev 0.6697
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

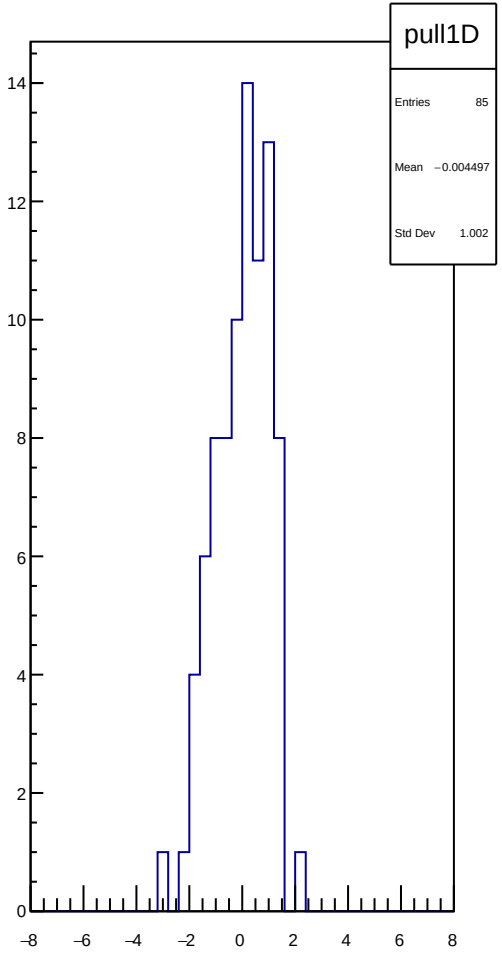

asym_bpm0l10WS_rms vs run
χ² / ndf 2479 / 84
p0 222.3 ± 0.175
250
240
230
220
210
200

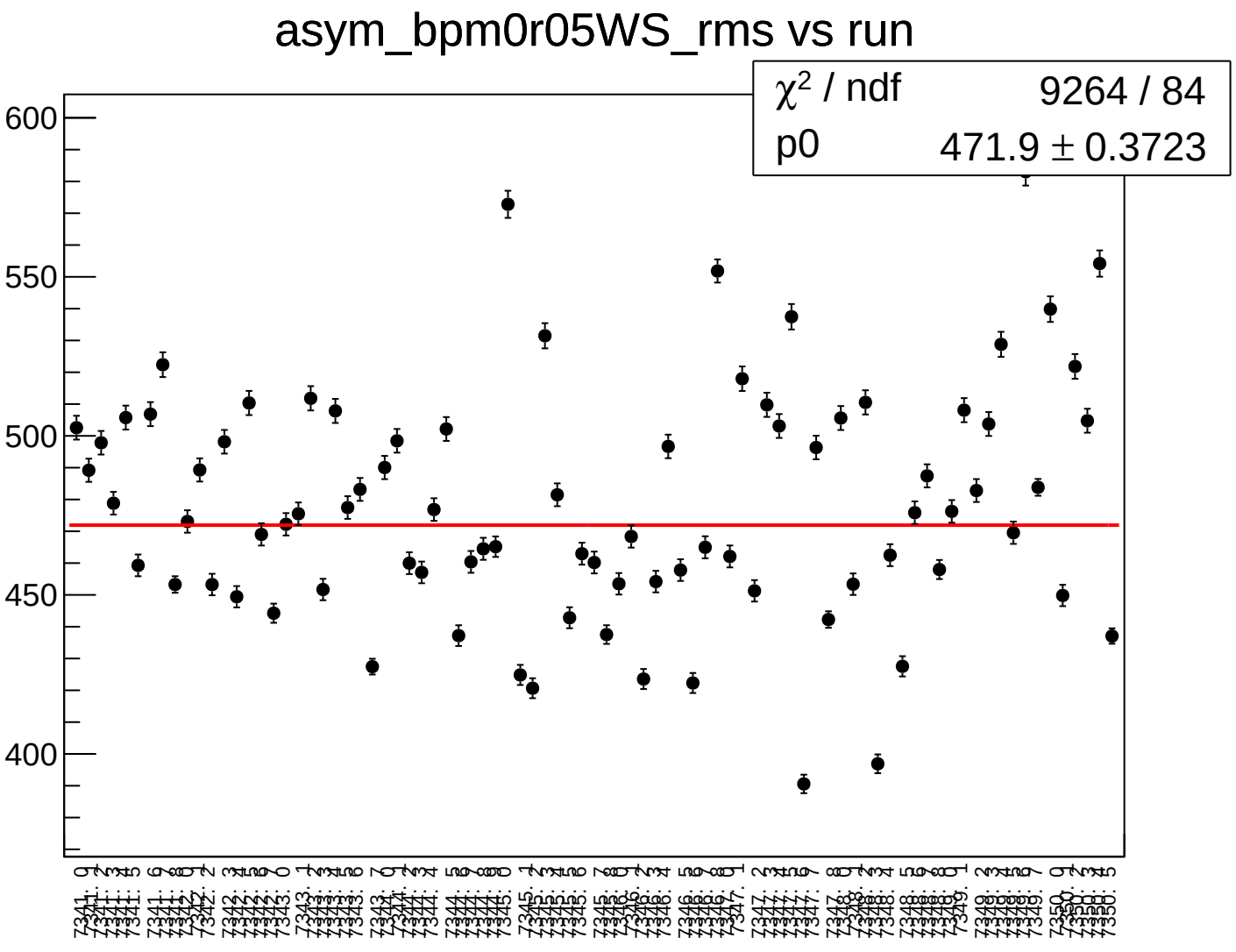

asym_bpm0r03WS_mean vs run
χ² / ndf 54.12 / 84
p0 −1689 ± 310.8
pull
Entries 85
Mean 306.4
Std Dev 0

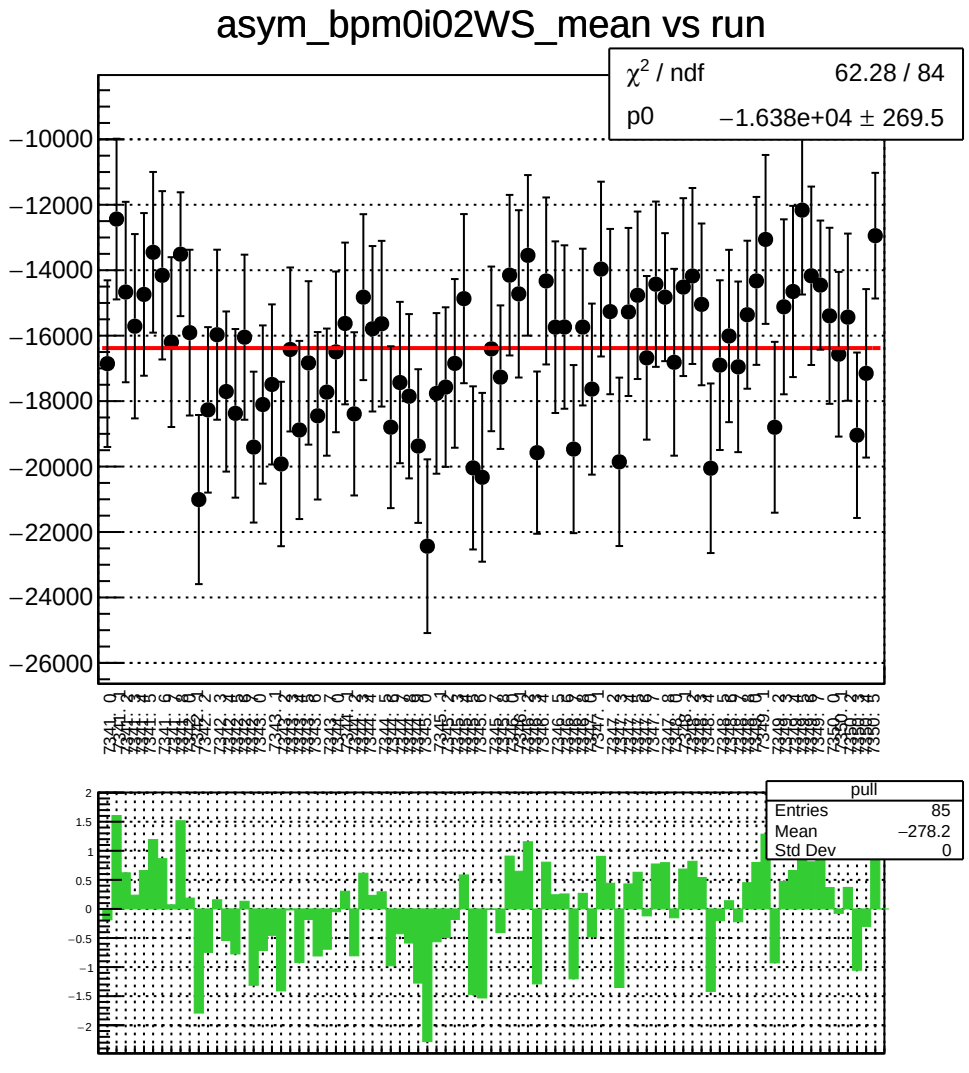

pull1D
Entries 85
Mean 0.004627
Std Dev 0.7979

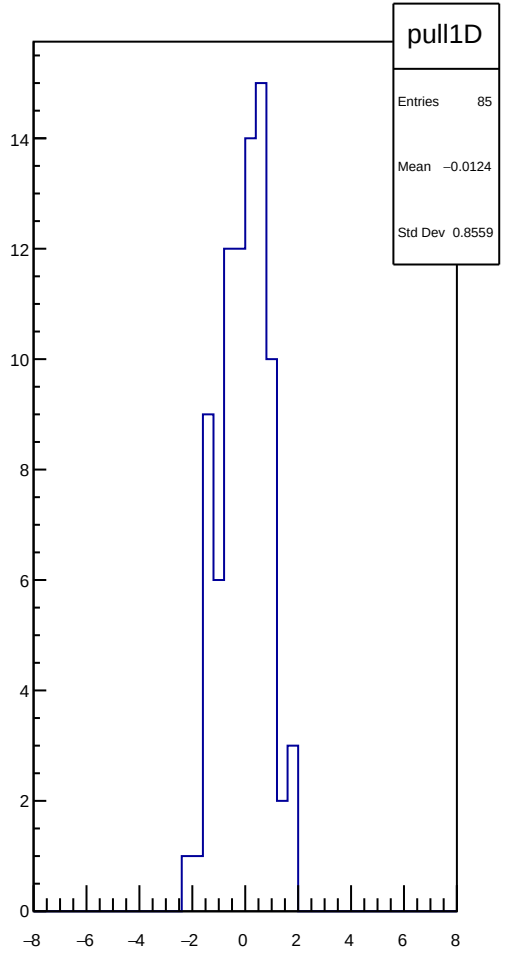

asym_bpm0r03WS_rms vs run
χ^2 / ndf 9073 / 84
p0 278.7 ± 0.2198
360
340
320
300
280
260
240

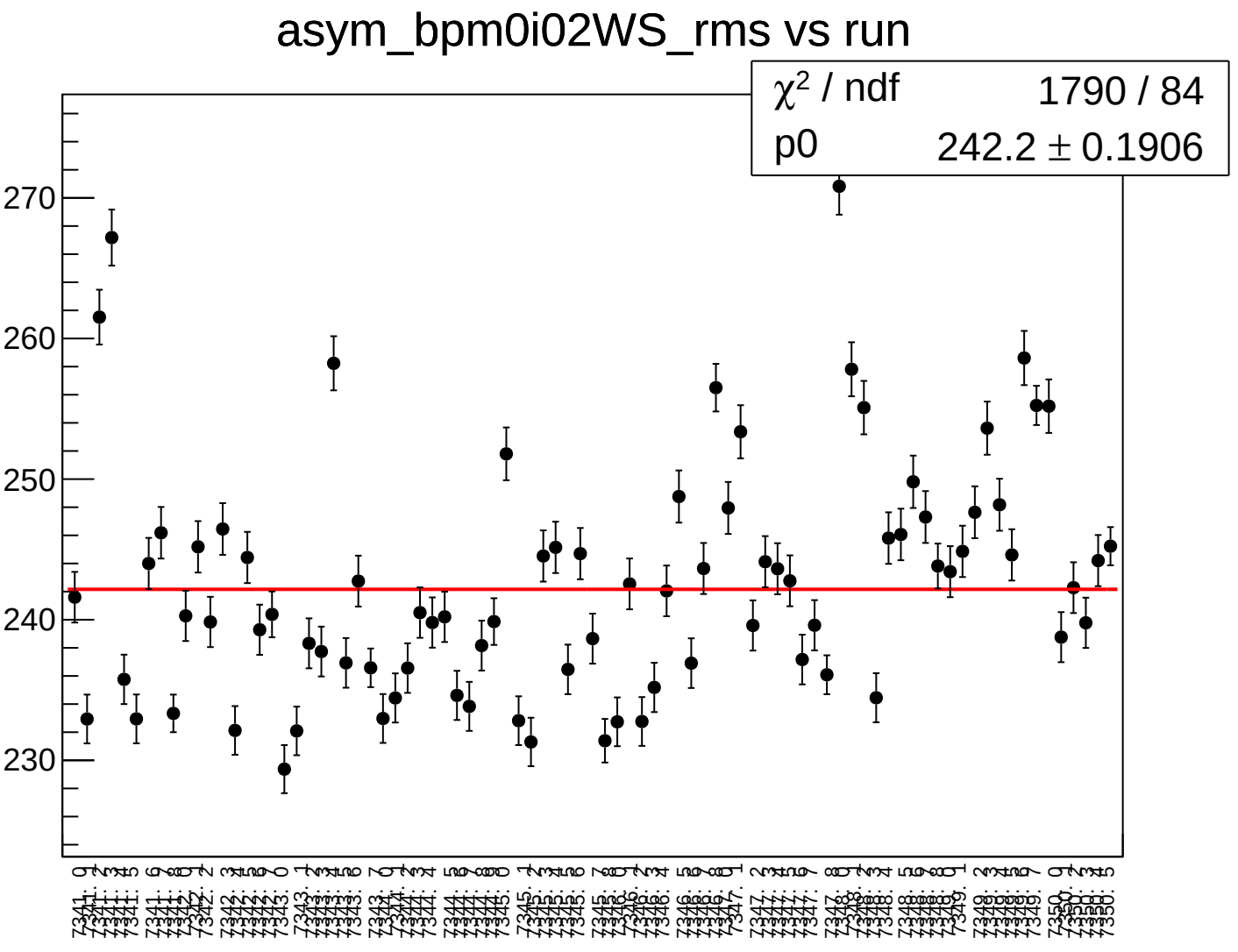

asym_bpm0r05WS_mean vs run
χ² / ndf 85.28 / 84
p0 −950.7 ± 526.5
pull
Entries 85
Mean −476.2
Std Dev 0

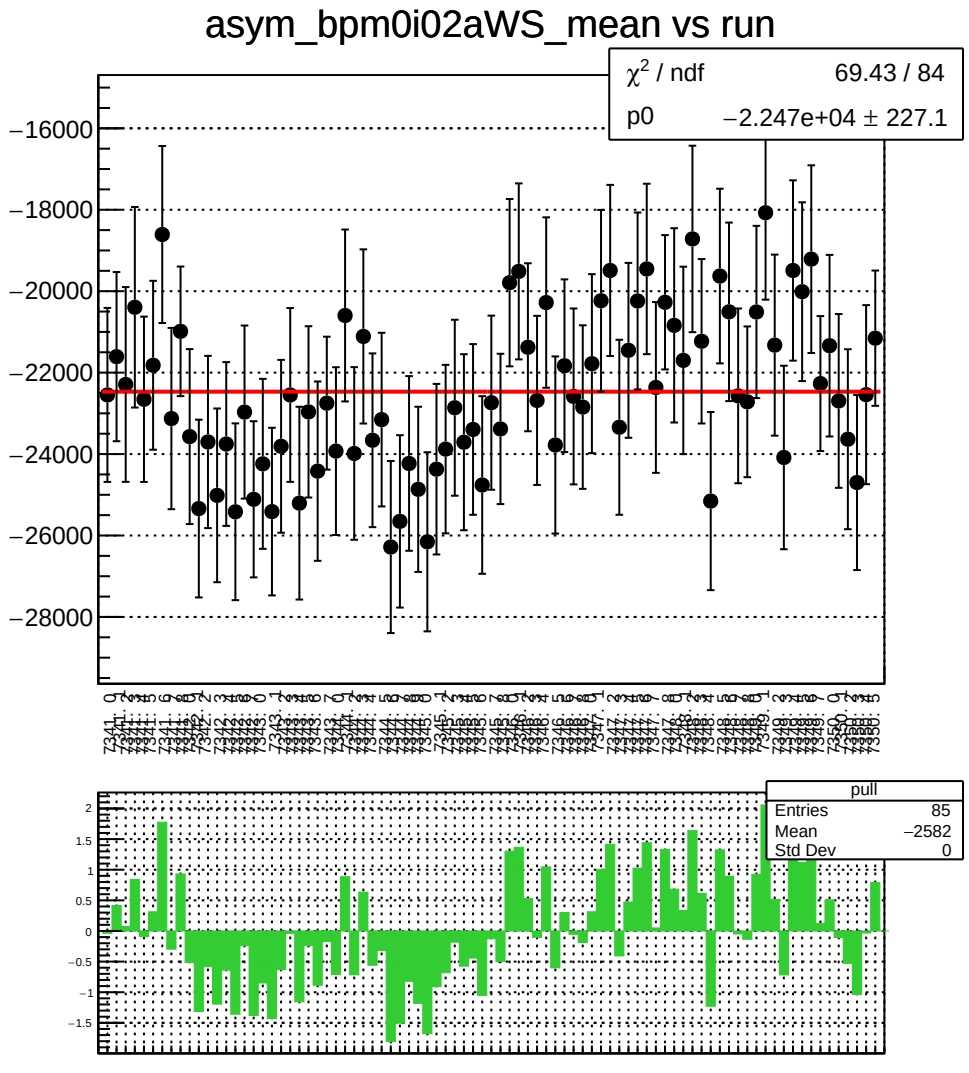

pull1D
Entries 85
Mean −0.004497
Std Dev 1.002

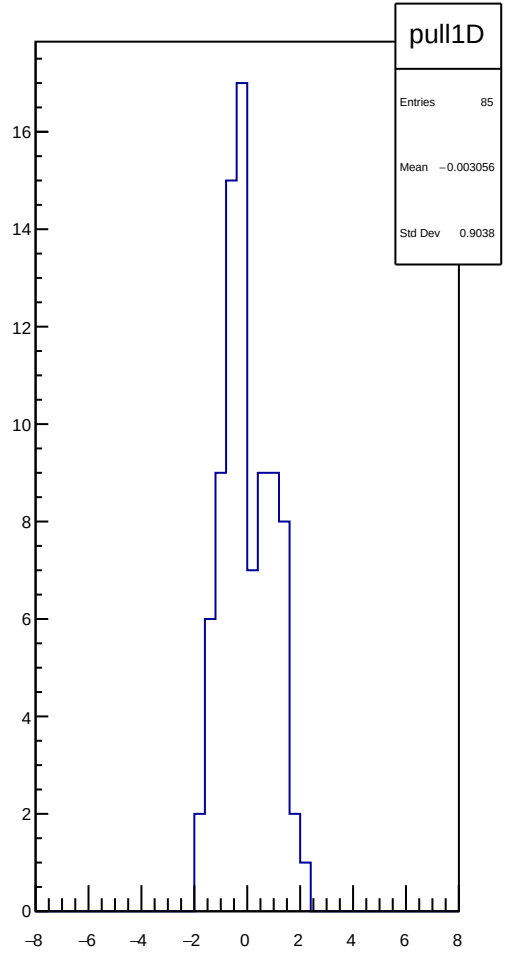

asym_bpm0r05WS_rms vs run
χ^2 / ndf 9264 / 84
p0 471.9 ± 0.3723
600
550
500
450
400

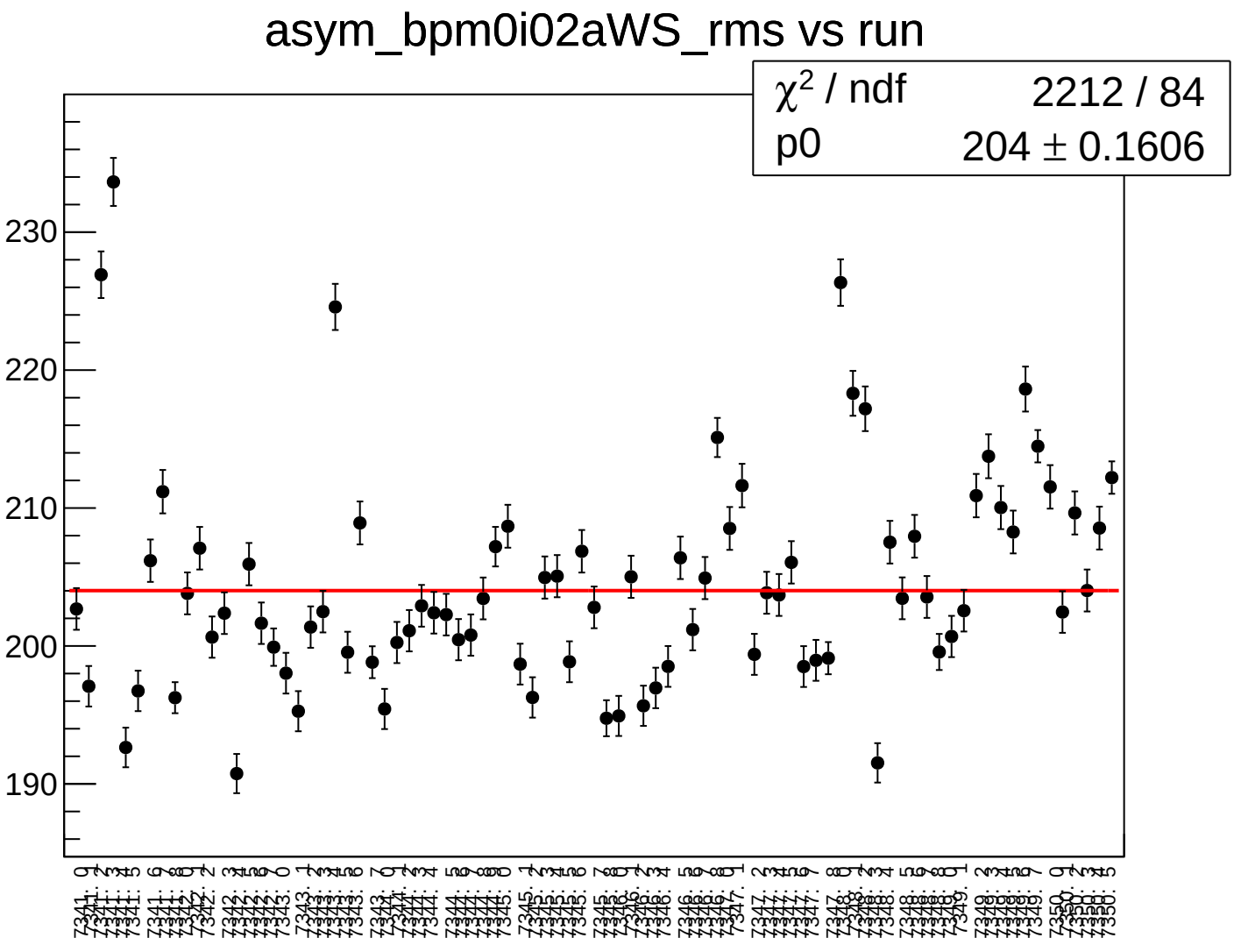

asym_bpm0i02WS_mean vs run
χ² / ndf 62.28 / 84
p0 −1.638e+04 ± 269.5
pull
Entries 85
Mean −278.2
Std Dev 0

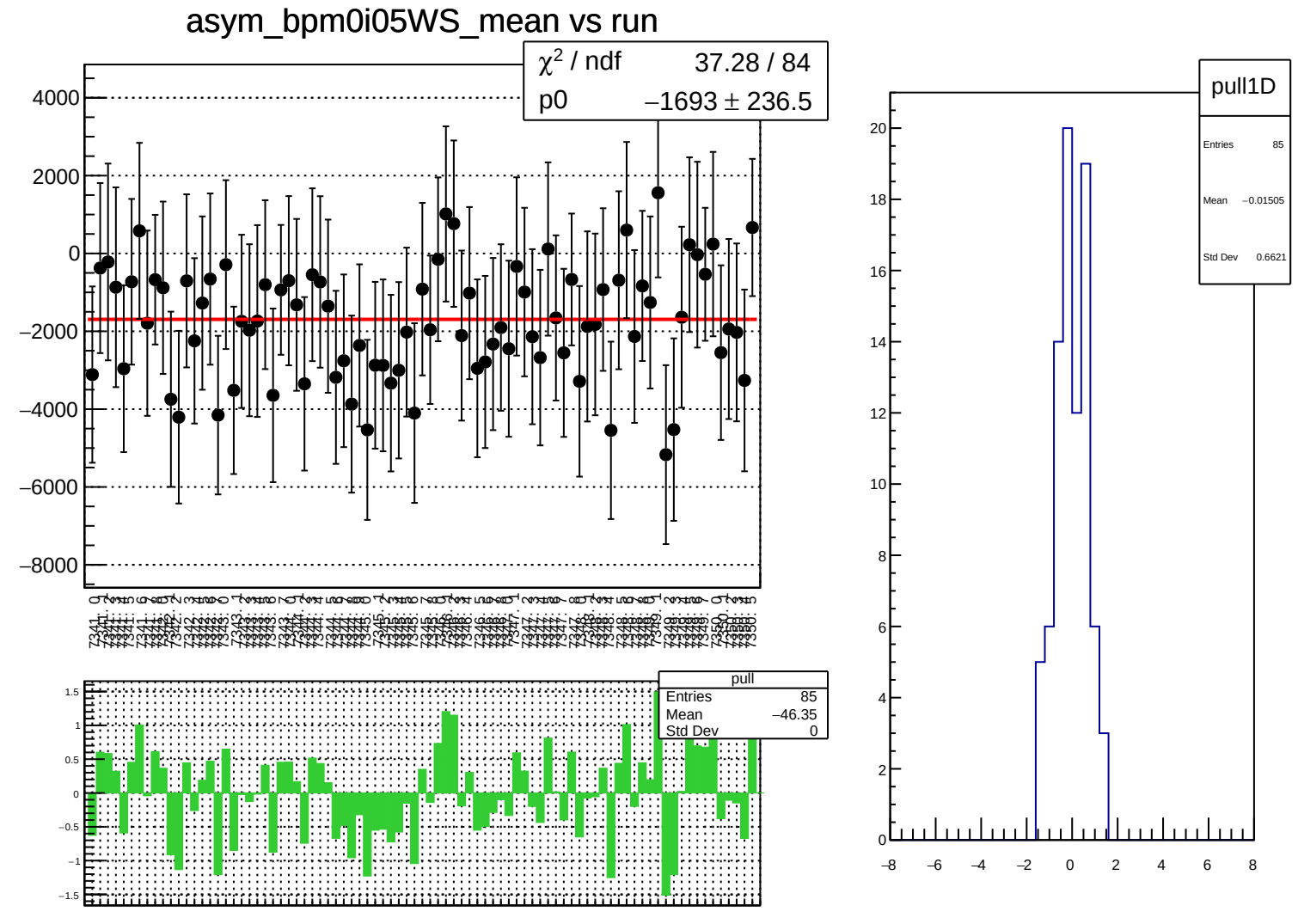

pull1D
Entries 85
Mean −0.0124
Std Dev 0.8559

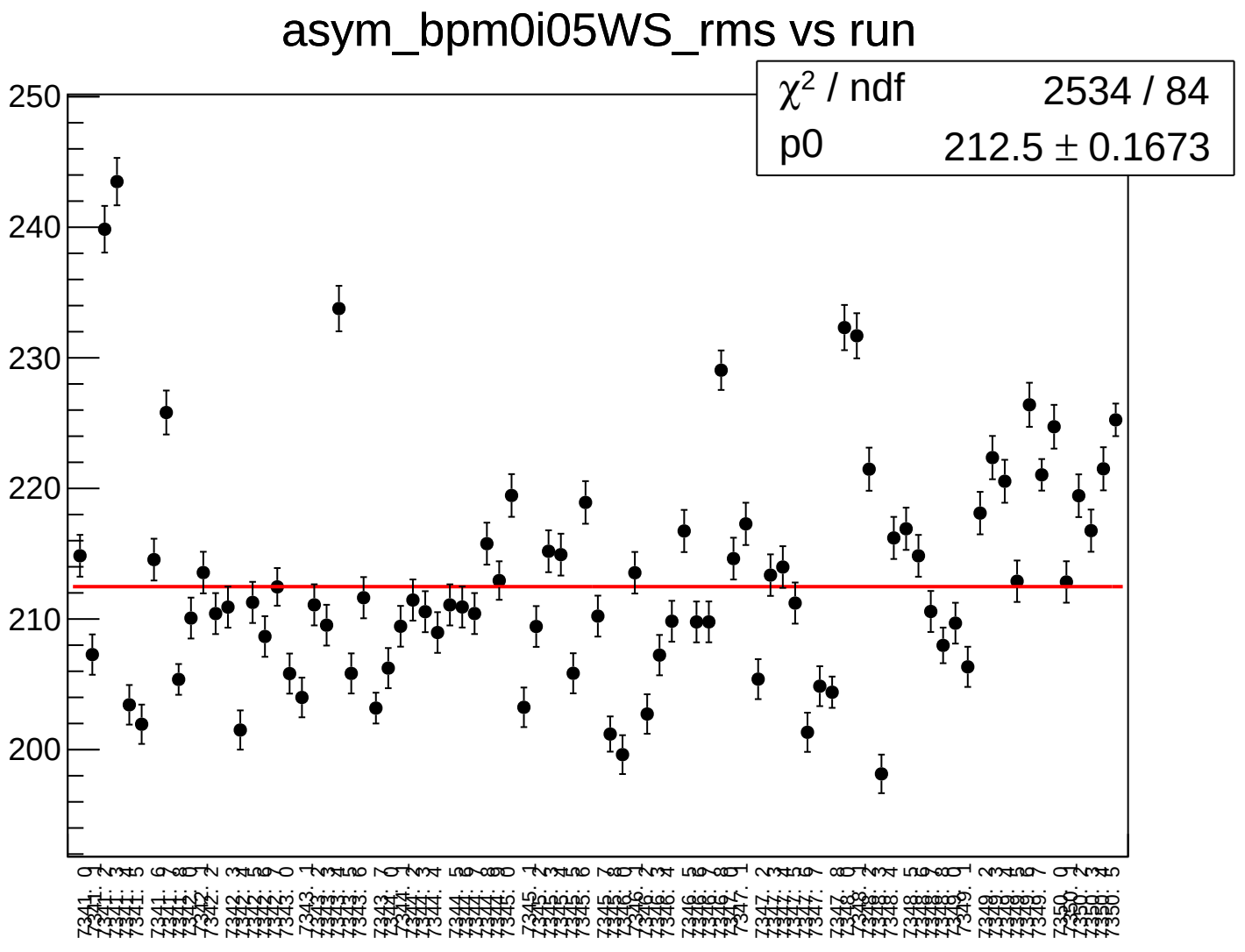

asym_bpm0i02WS_rms vs run
χ² / ndf 1790 / 84
p0 242.2 ± 0.1906
270
260
250
240
230

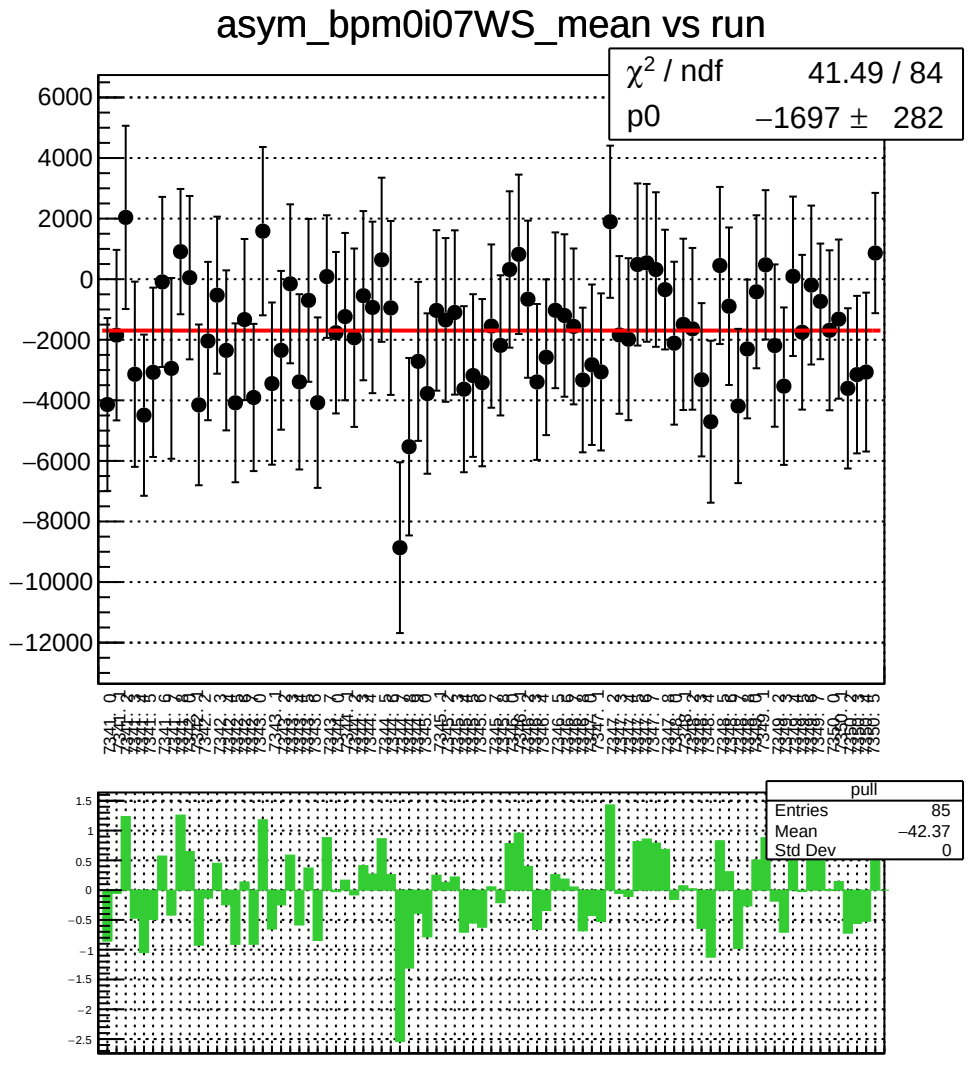

asym_bpm0i02aWS_mean vs run
χ² / ndf 69.43 / 84
p0 −2.247e+04 ± 227.1
−16000
−18000
−20000
−22000
−24000
−26000
−28000
pull
Entries 85
Mean −2582
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

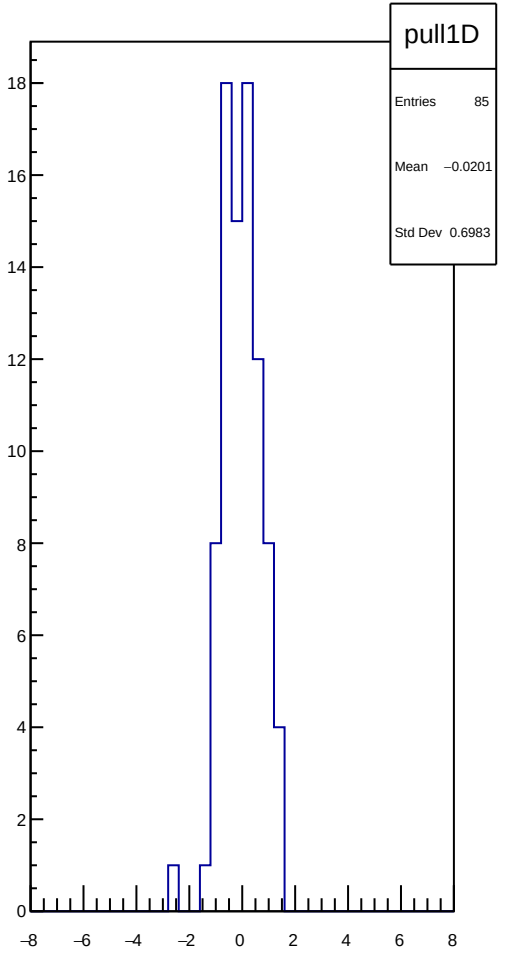

pull1D
Entries 85
Mean −0.003056
Std Dev 0.9038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

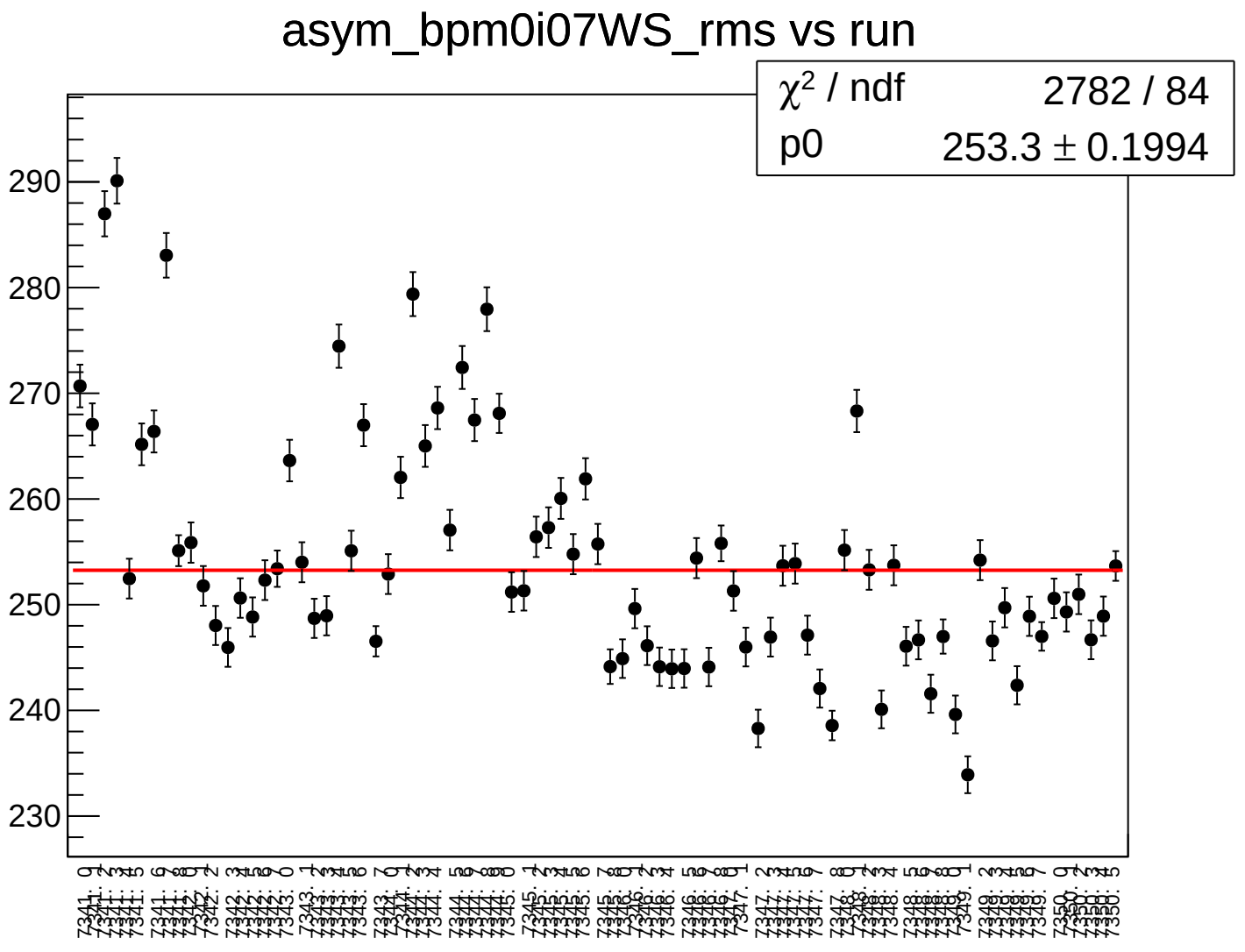

asym_bpm0i02aWS_rms vs run
χ² / ndf 2212 / 84
p0 204 ± 0.1606
230
220
210
200
190

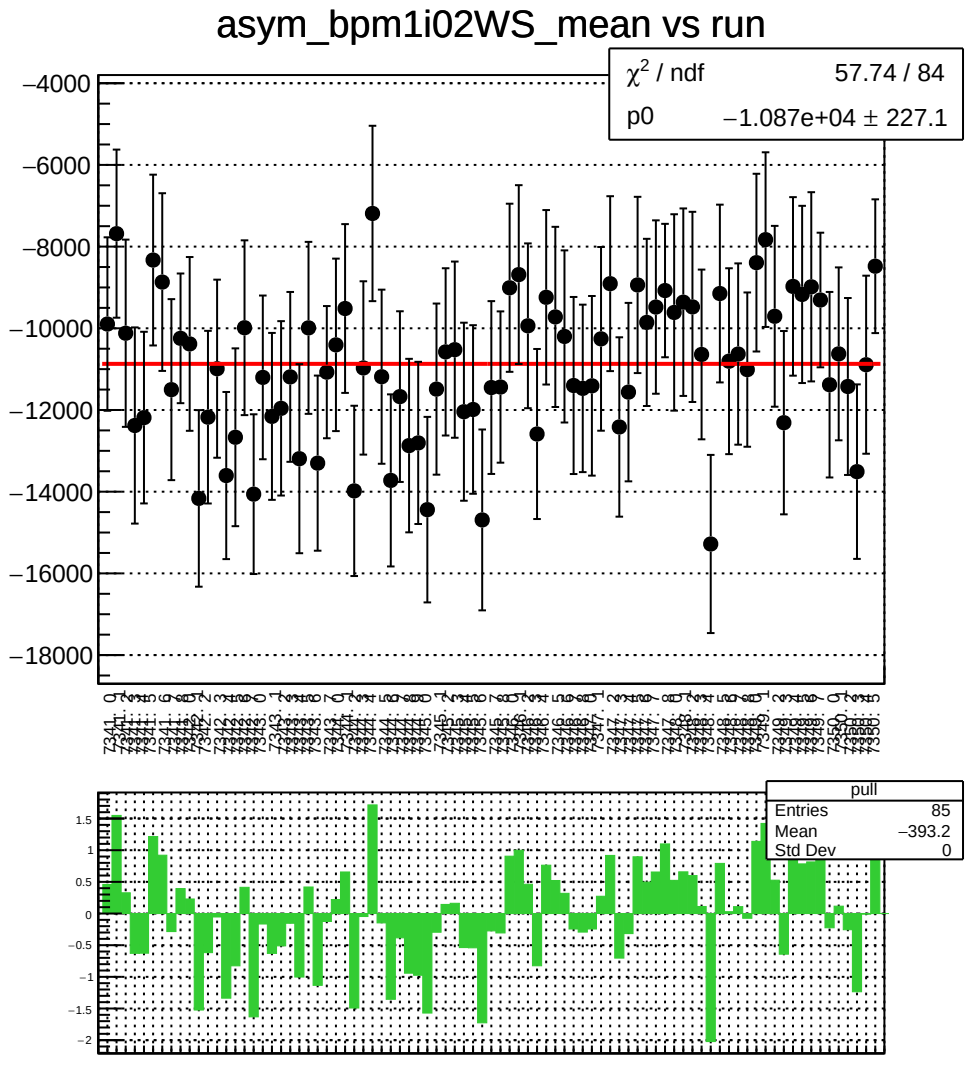

asym_bpm0i05WS_mean vs run
χ² / ndf 37.28 / 84
p0 −1693 ± 236.5
pull
Entries 85
Mean −46.35
Std Dev 0
pull1D
Entries 85
Mean −0.01505
Std Dev 0.6621

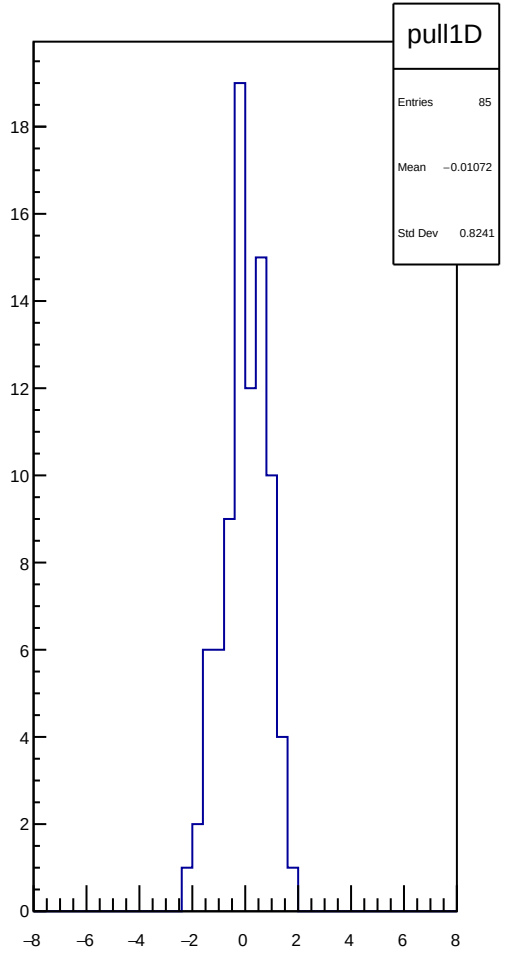

asym_bpm0i05WS_rms vs run
χ² / ndf 2534 / 84
p0 212.5 ± 0.1673
250
240
230
220
210
200

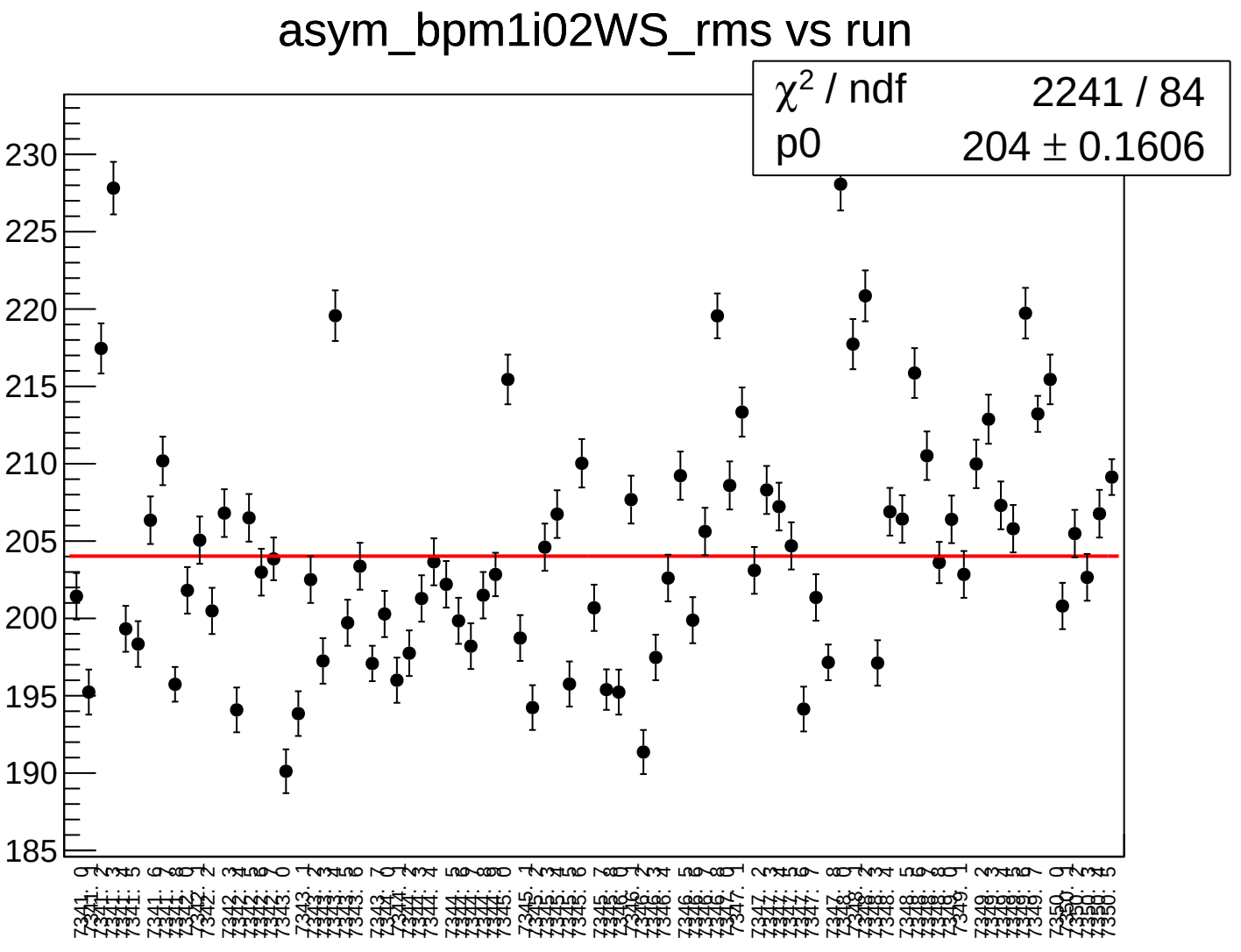

asym_bpm0i07WS_mean vs run
χ² / ndf 41.49 / 84
p0 −1697 ± 282
pull
Entries 85
Mean −42.37
Std Dev 0

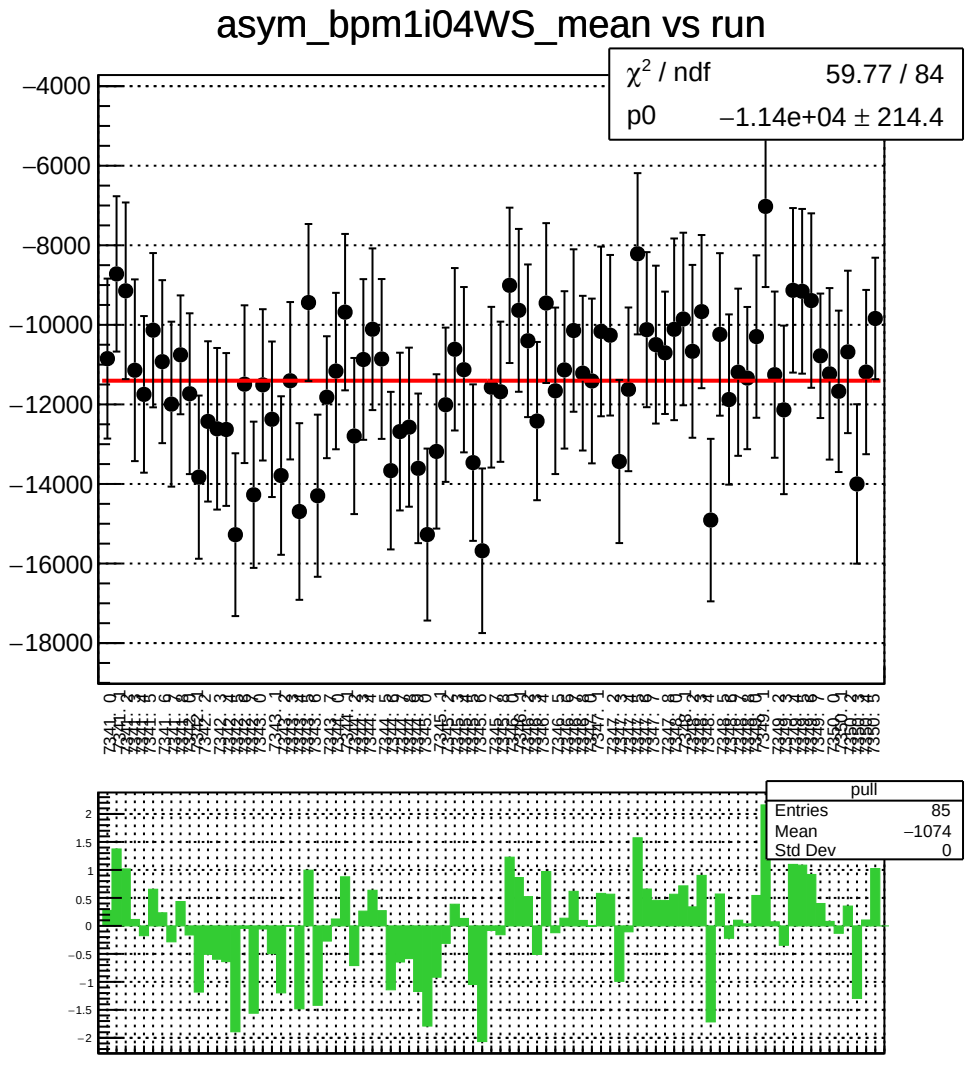

pull1D
Entries 85
Mean −0.0201
Std Dev 0.6983

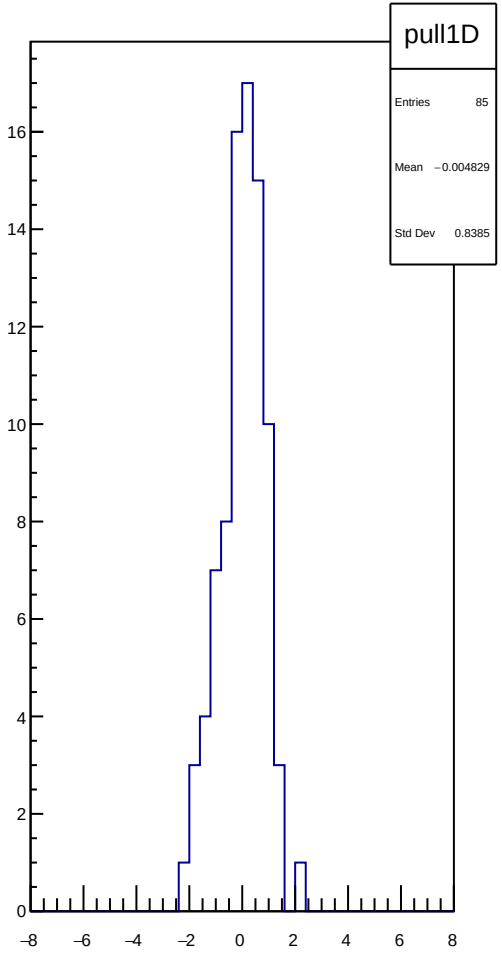

asym_bpm0i07WS_rms vs run
χ² / ndf 2782 / 84
p0 253.3 ± 0.1994
290
280
270
260
250
240
230

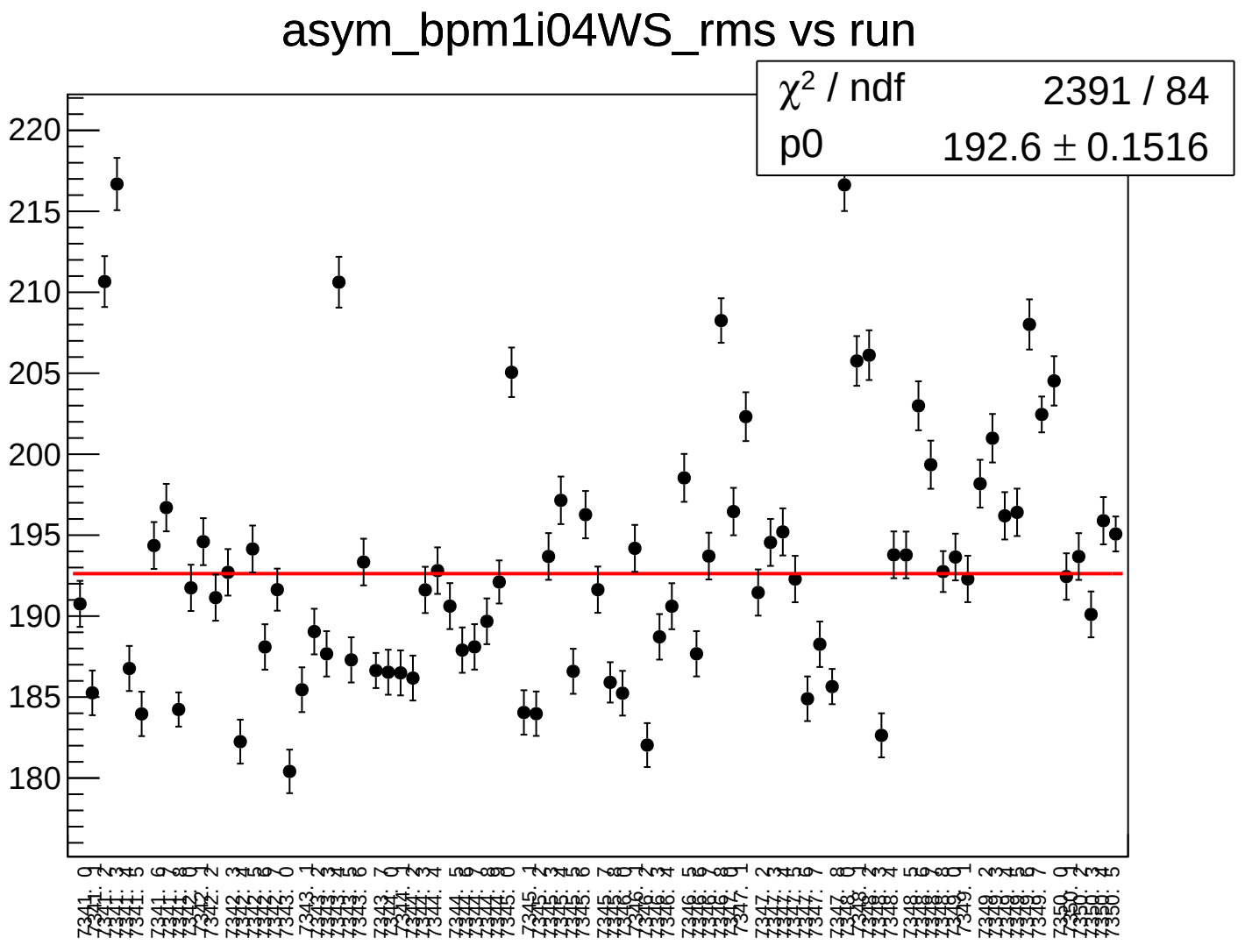

asym_bpm1i02WS_mean vs run
χ² / ndf 57.74 / 84
p0 −1.087e+04 ± 227.1
pull
Entries 85
Mean −393.2
Std Dev 0

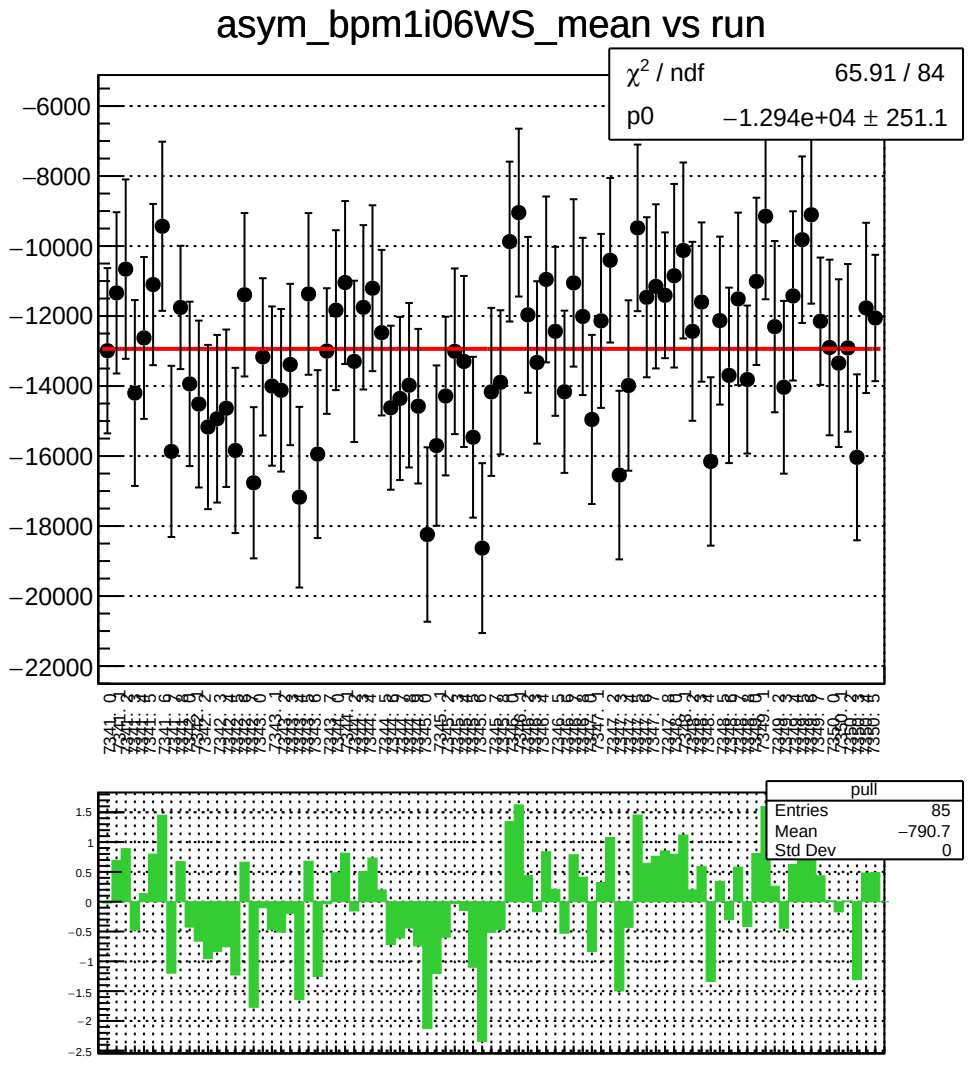

pull1D
Entries 85
Mean −0.01072
Std Dev 0.8241

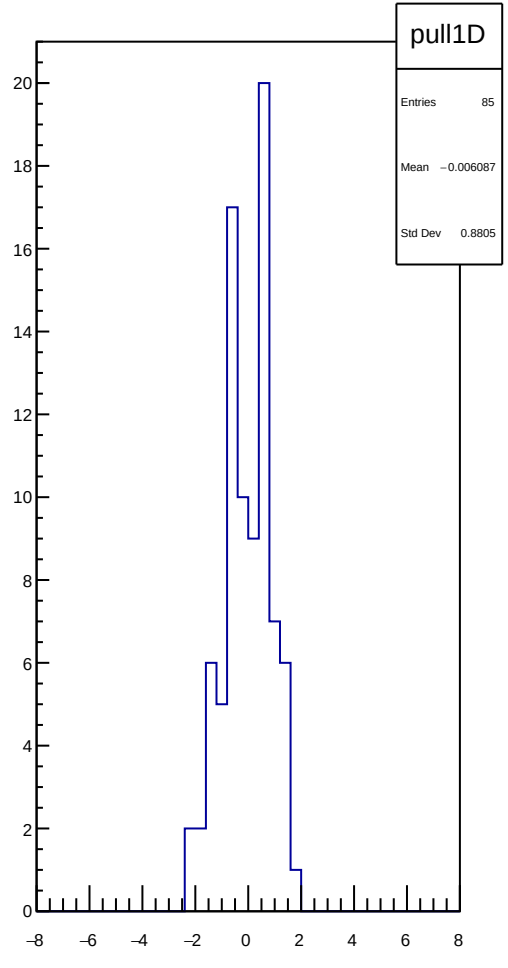

asym_bpm1i02WS_rms vs run
χ^2 / ndf 2241 / 84
p0 204 ± 0.1606
230
225
220
215
210
205
200
195
190
185

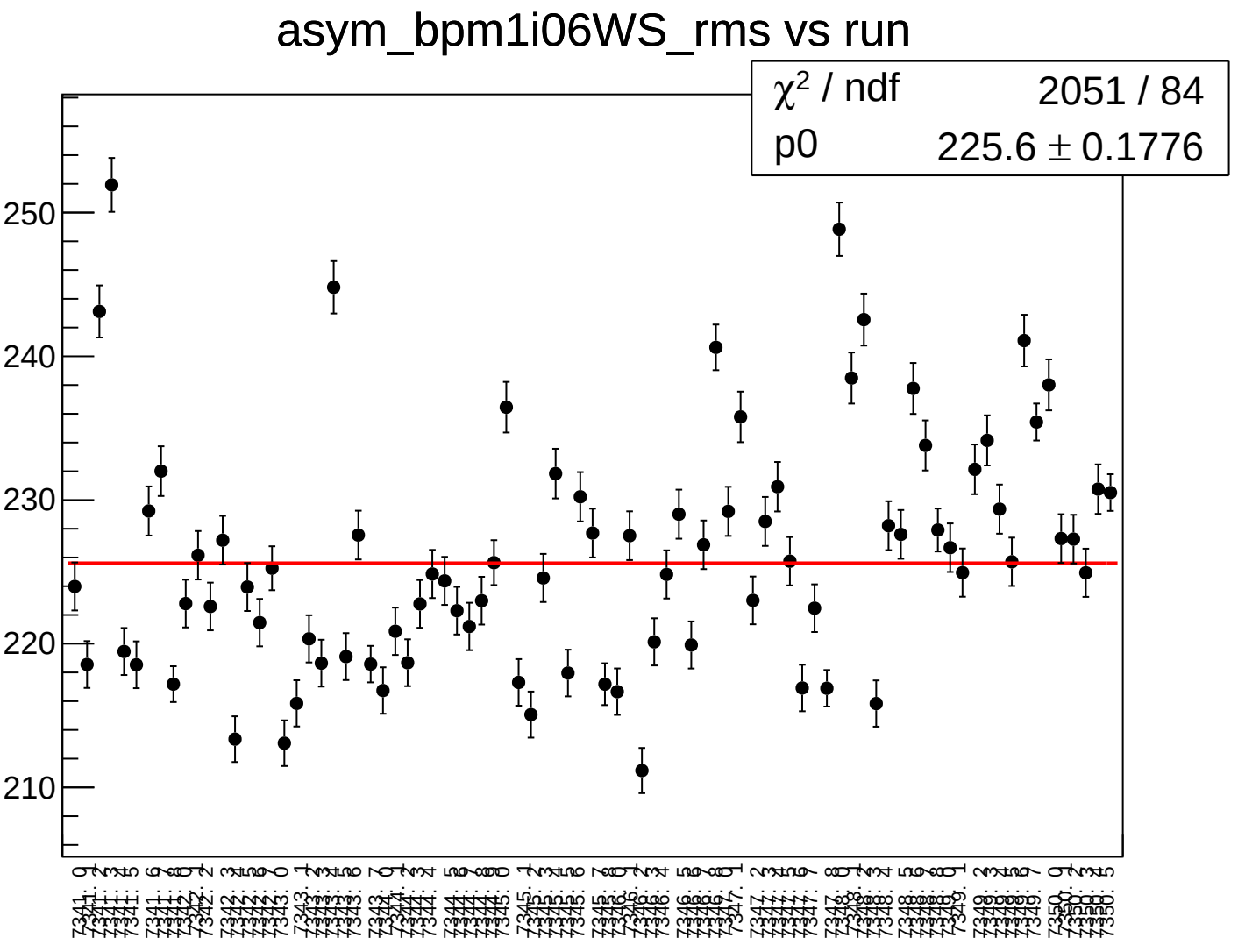

asym_bpm1i04WS_mean vs run
χ² / ndf 59.77 / 84
p0 −1.14e+04 ± 214.4
pull
Entries 85
Mean −1074
Std Dev 0

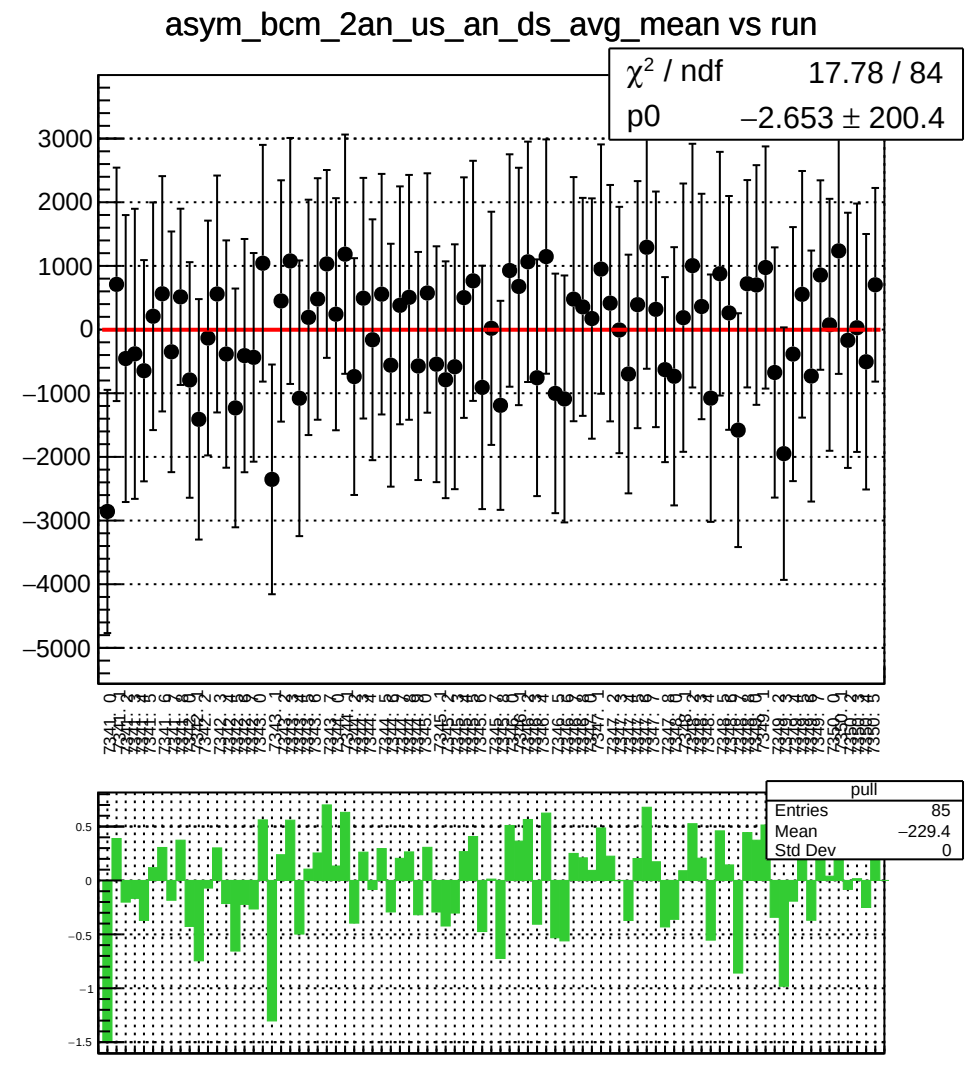

pull1D
Entries 85
Mean −0.004829
Std Dev 0.8385

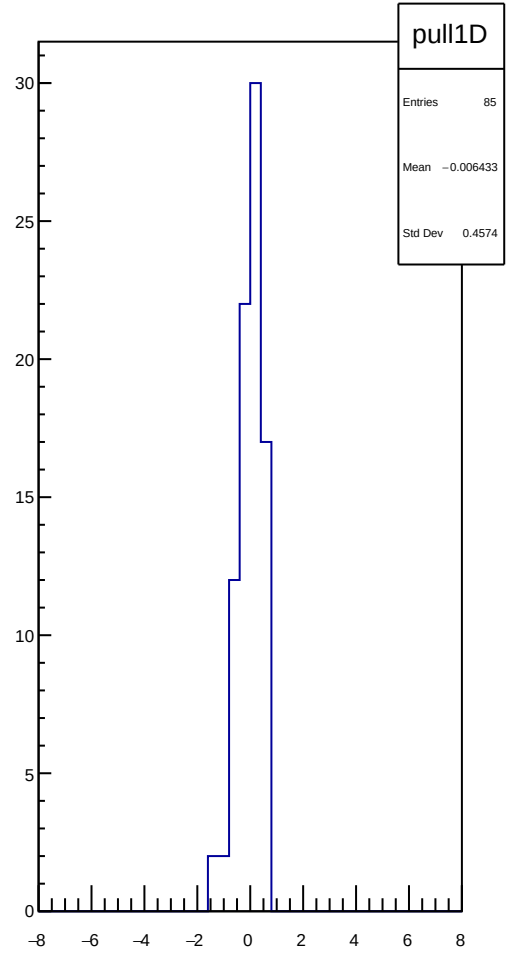

asym_bpm1i04WS_rms vs run
χ² / ndf 2391 / 84
p0 192.6 ± 0.1516
220
215
210
205
200
195
190
185
180

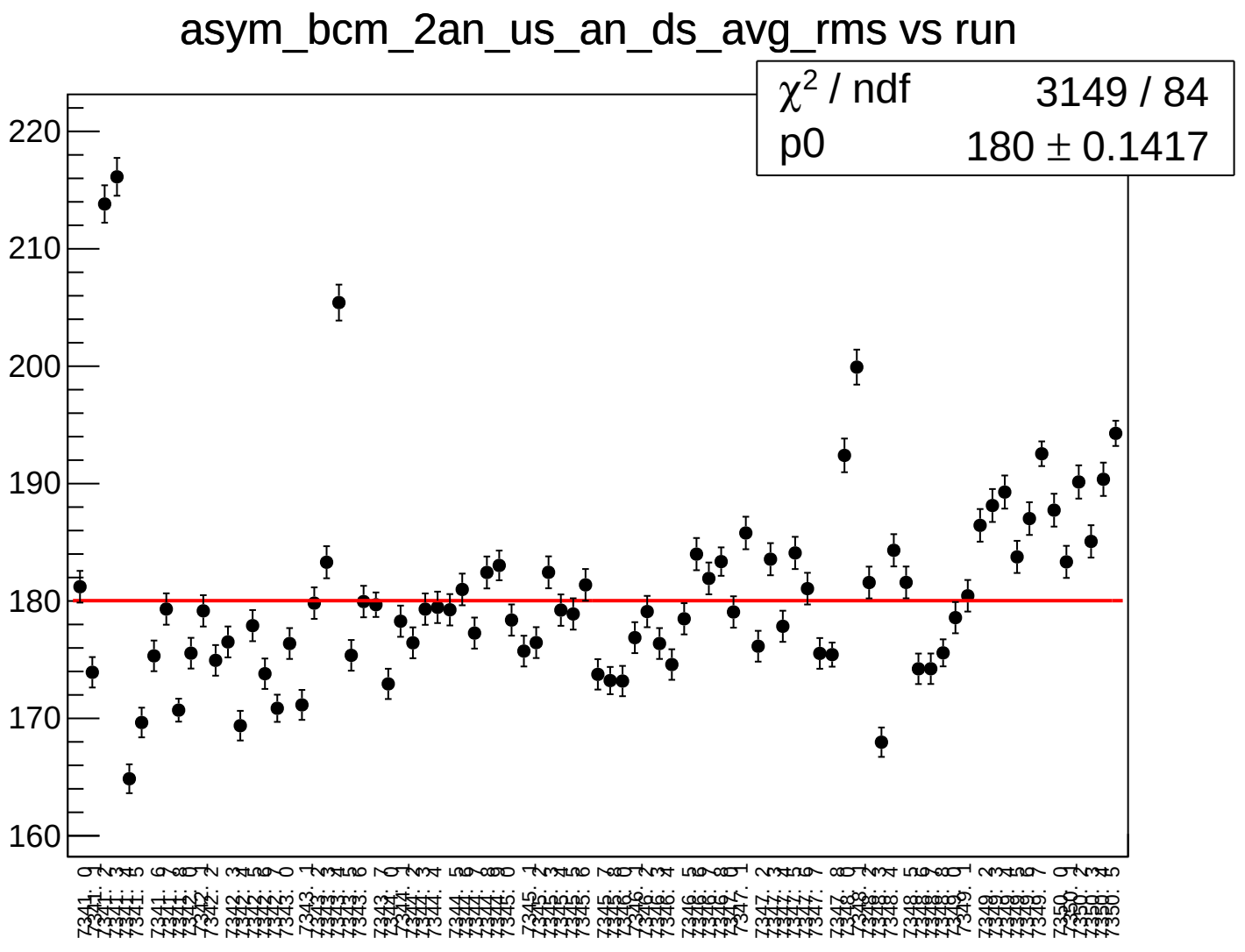

asym_bpm1i06WS_mean vs run
χ² / ndf 65.91 / 84
p0 −1.294e+04 ± 251.1
pull
Entries 85
Mean −790.7
Std Dev 0

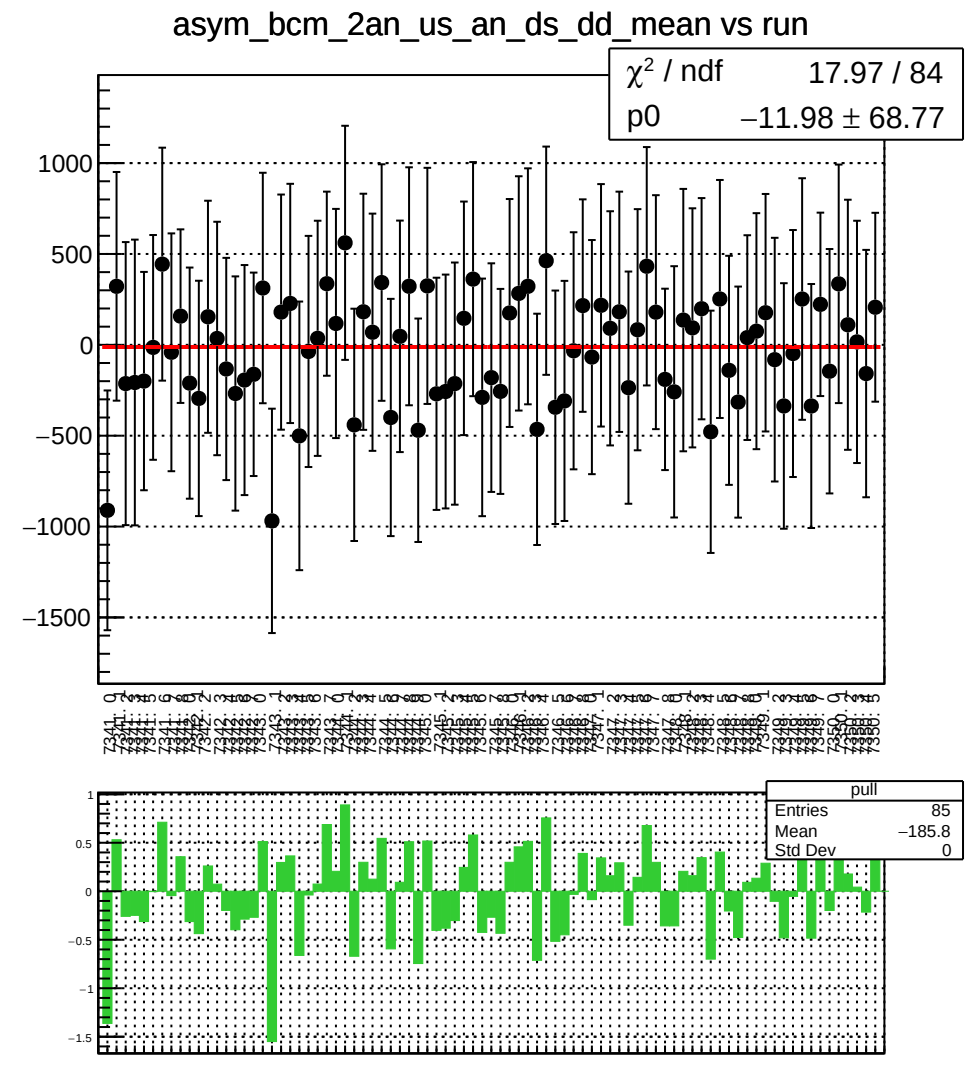

pull1D
Entries 85
Mean −0.006087
Std Dev 0.8805

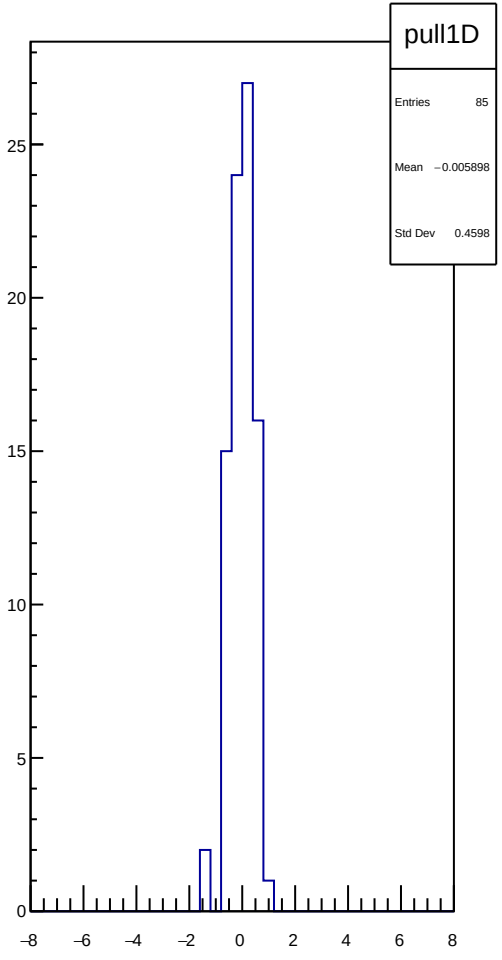

asym_bpm1i06WS_rms vs run
χ² / ndf 2051 / 84
p0 225.6 ± 0.1776
250
240
230
220
210

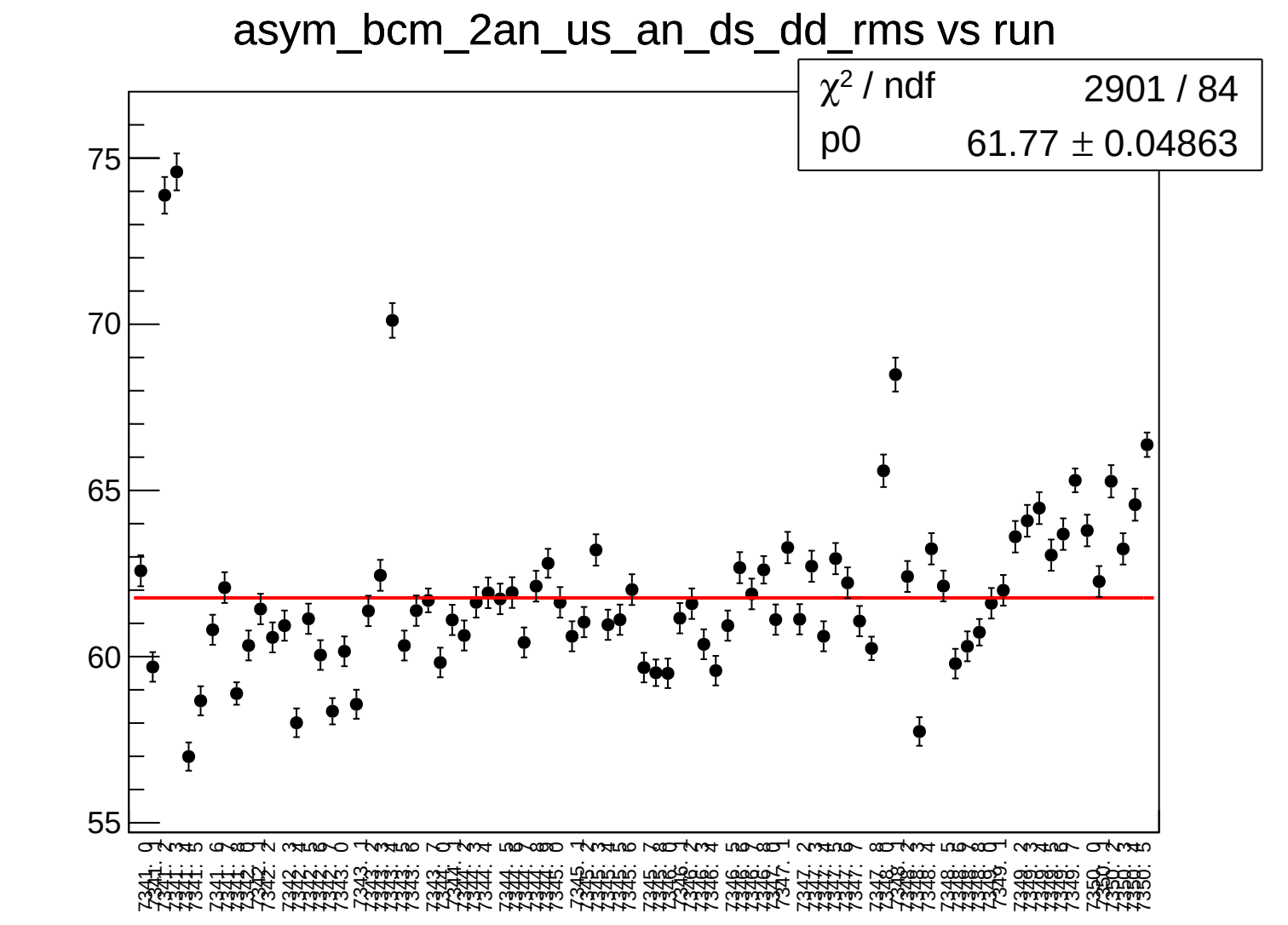

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 17.78 / 84
p0 −2.653 ± 200.4
pull
Entries 85
Mean −229.4
Std Dev 0

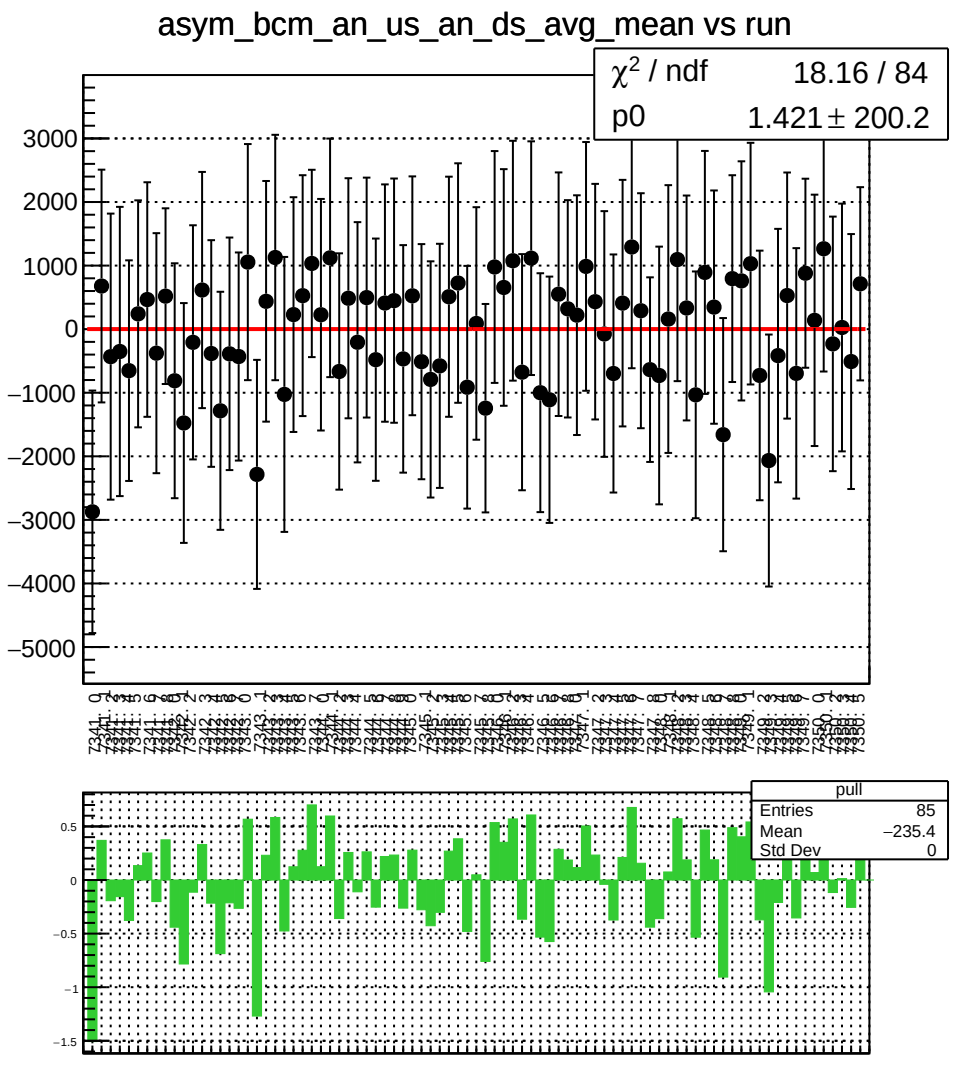

pull1D
Entries 85
Mean −0.006433
Std Dev 0.4574

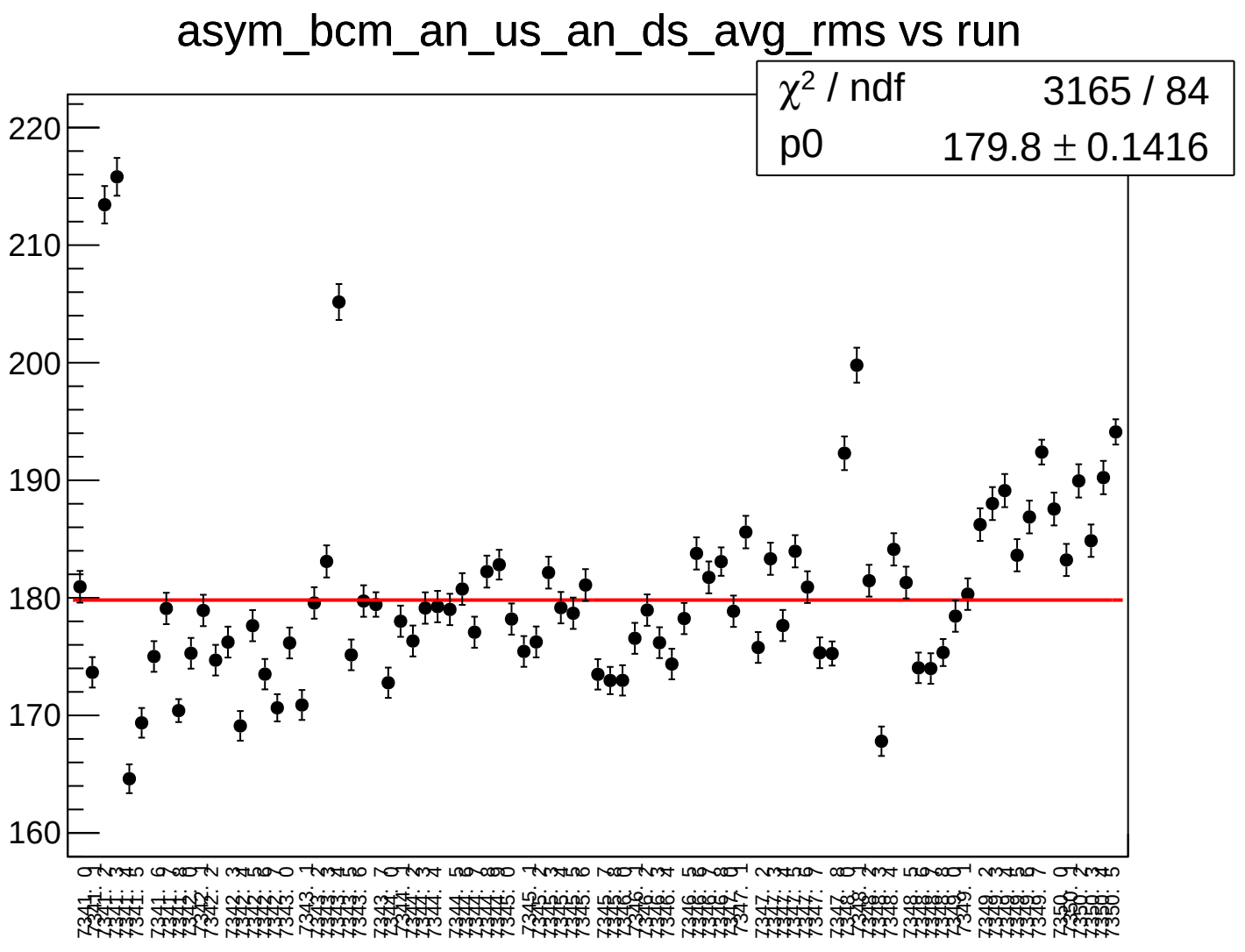

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3149 / 84
p0 180 ± 0.1417
220
210
200
190
180
170
160

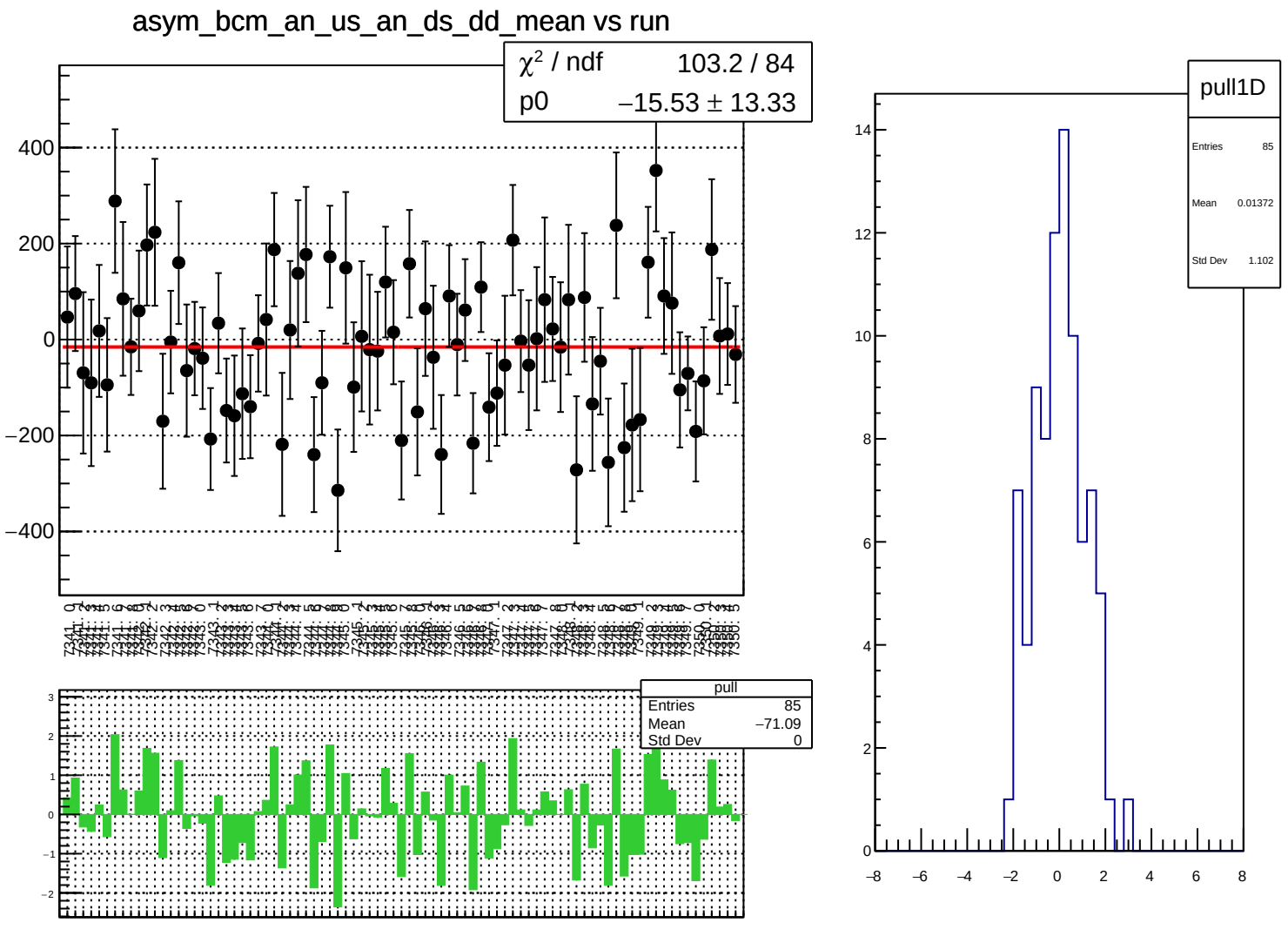

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 17.97 / 84
p0 −11.98 ± 68.77
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean −185.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

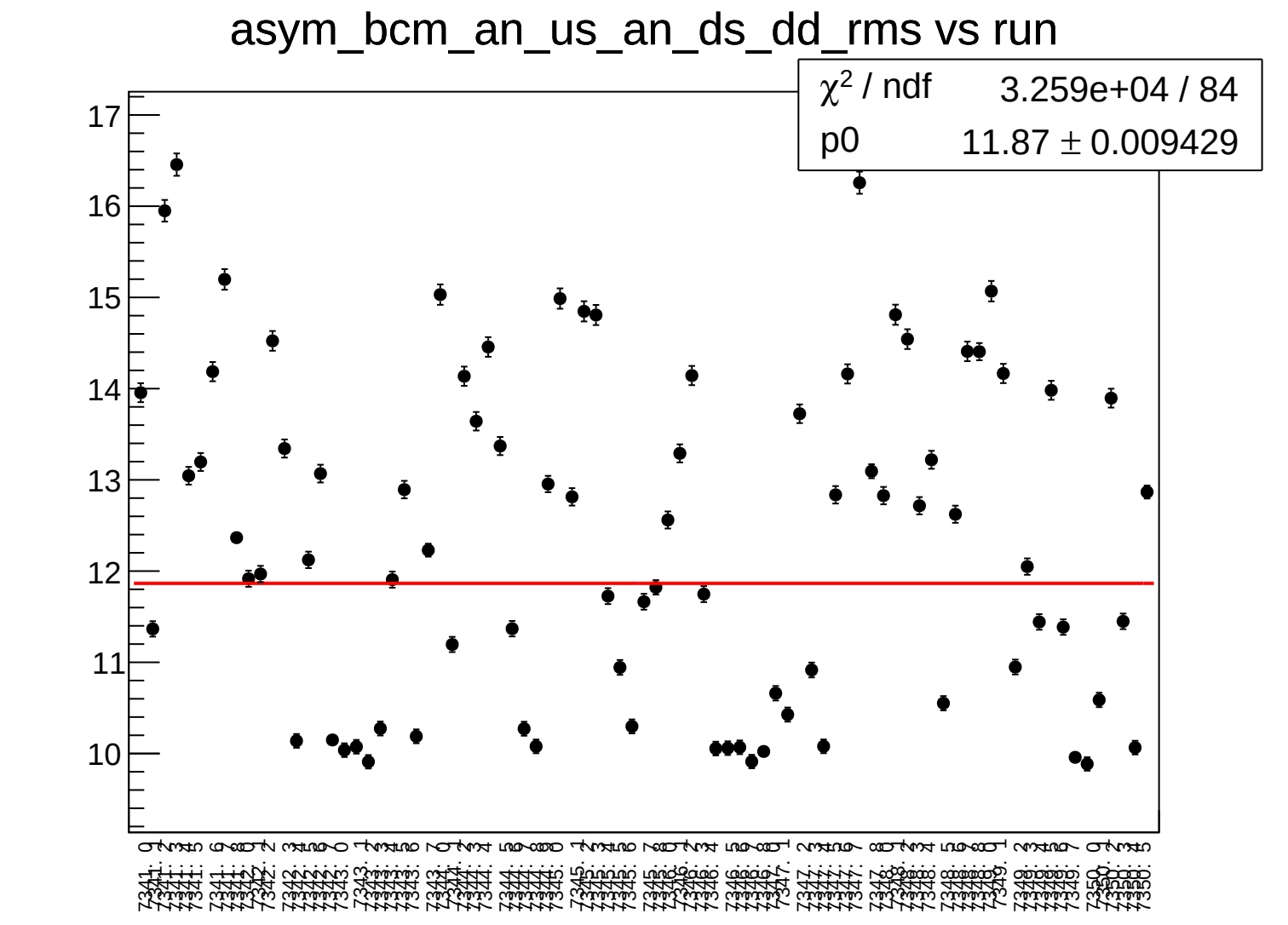

pull1D
Entries 85
Mean −0.005898
Std Dev 0.4598
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

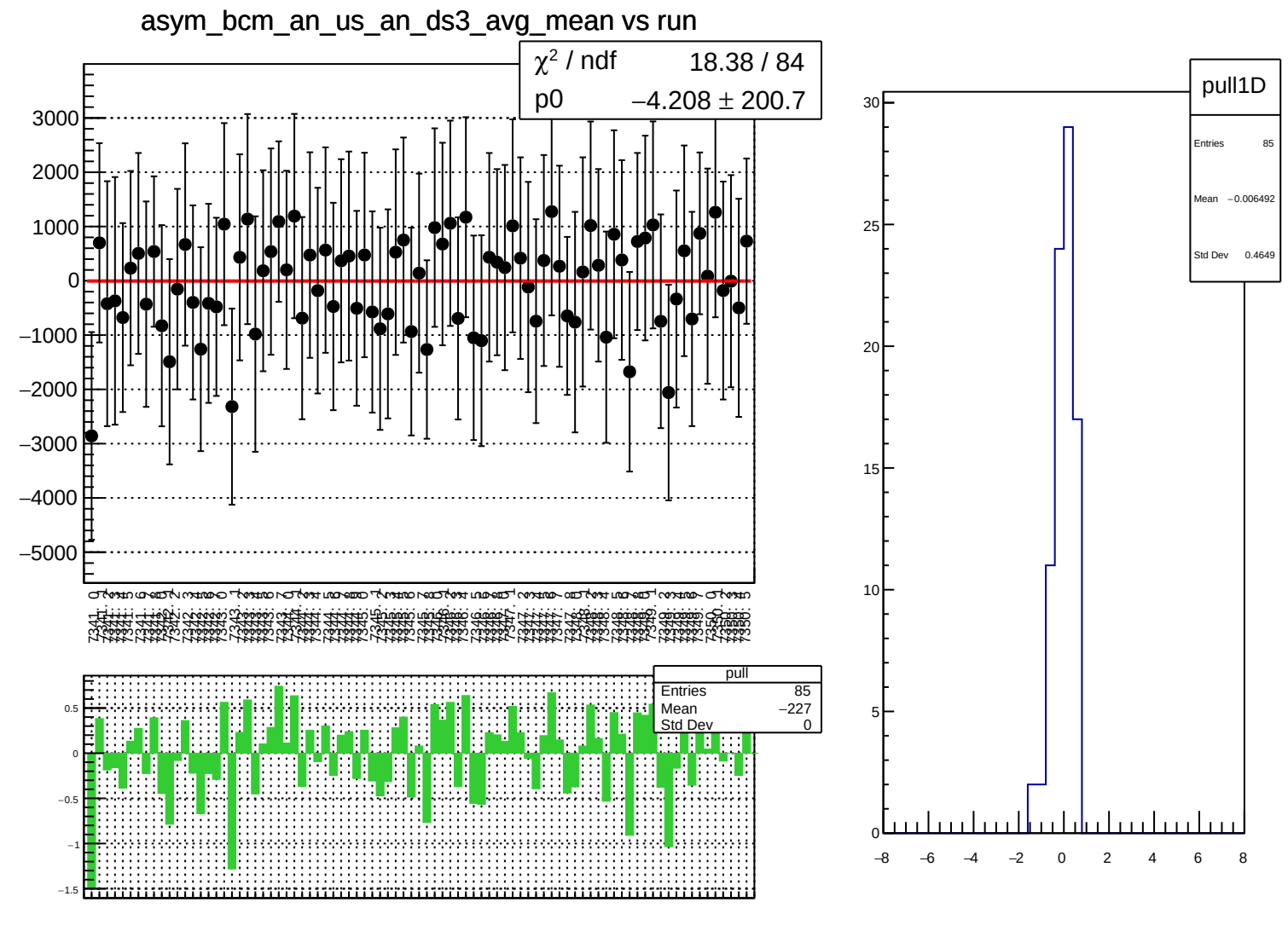

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 2901 / 84
p0 61.77 ± 0.04863
75
70
65
60
55

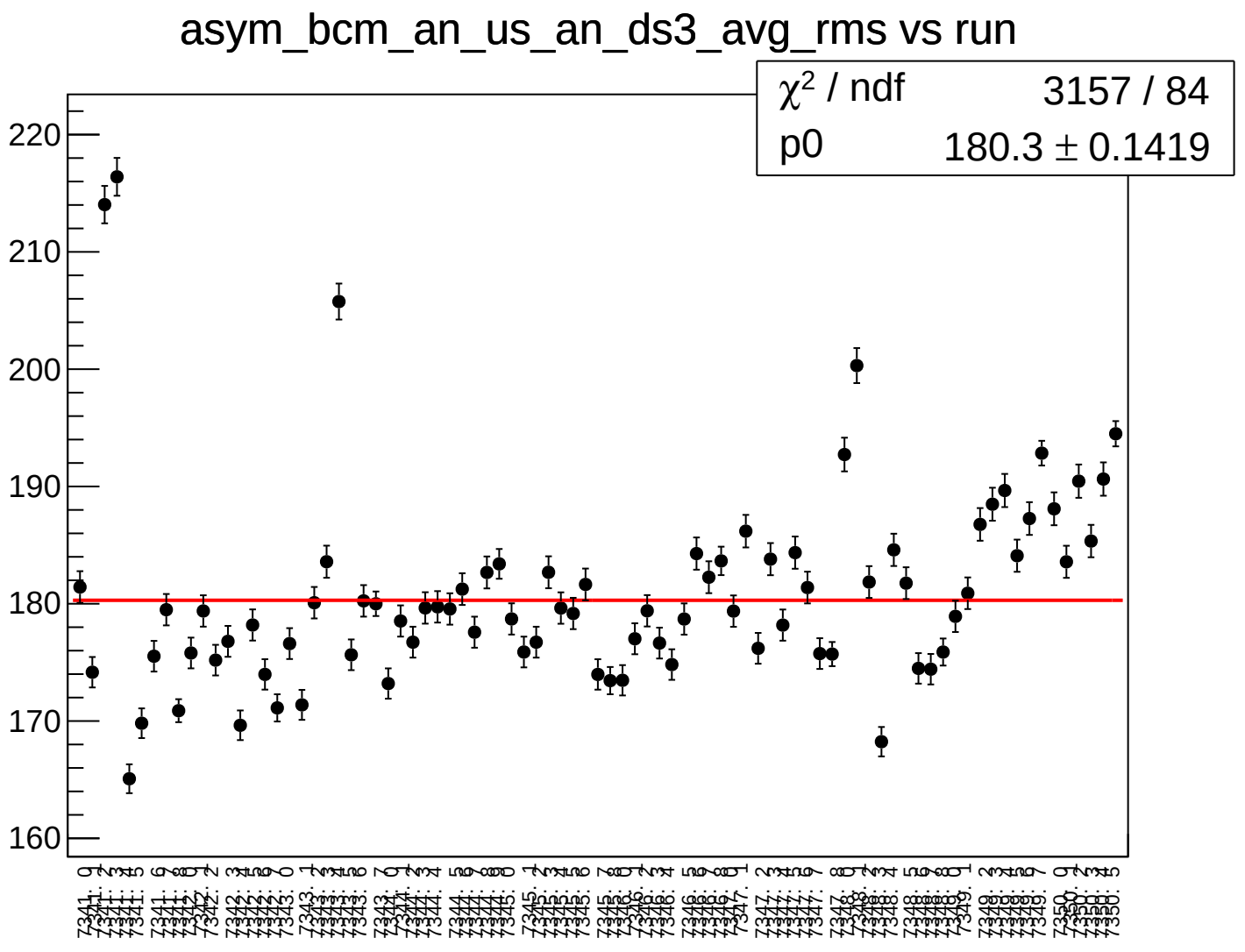

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 18.16 / 84
p0 1.421 ± 200.2
pull
Entries 85
Mean −235.4
Std Dev 0
pull1D
Entries 85
Mean −0.006465
Std Dev 0.4621

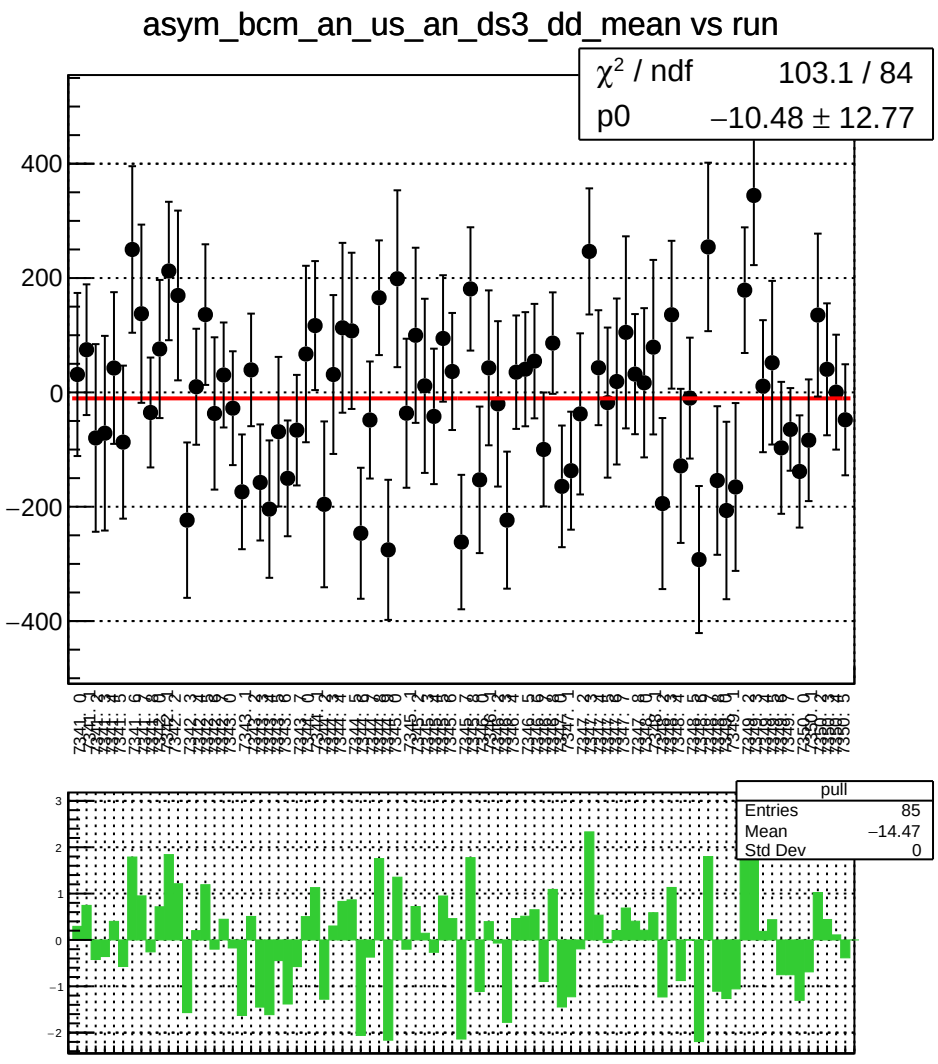

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3165 / 84
p0 179.8 ± 0.1416
220
210
200
190
180
170
160

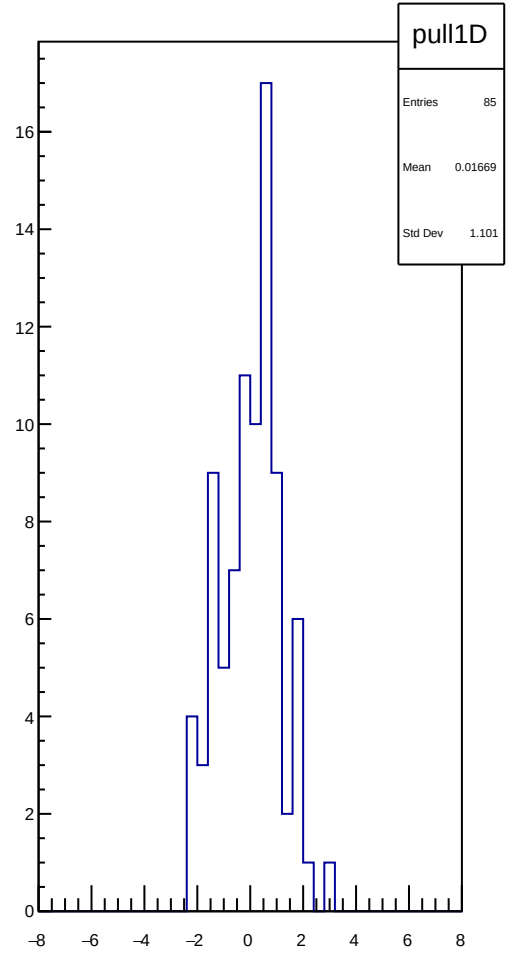

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 103.2 / 84
p0 −15.53 ± 13.33
400
200
0
−200
−400
pull
Entries 85
Mean −71.09
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01372
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

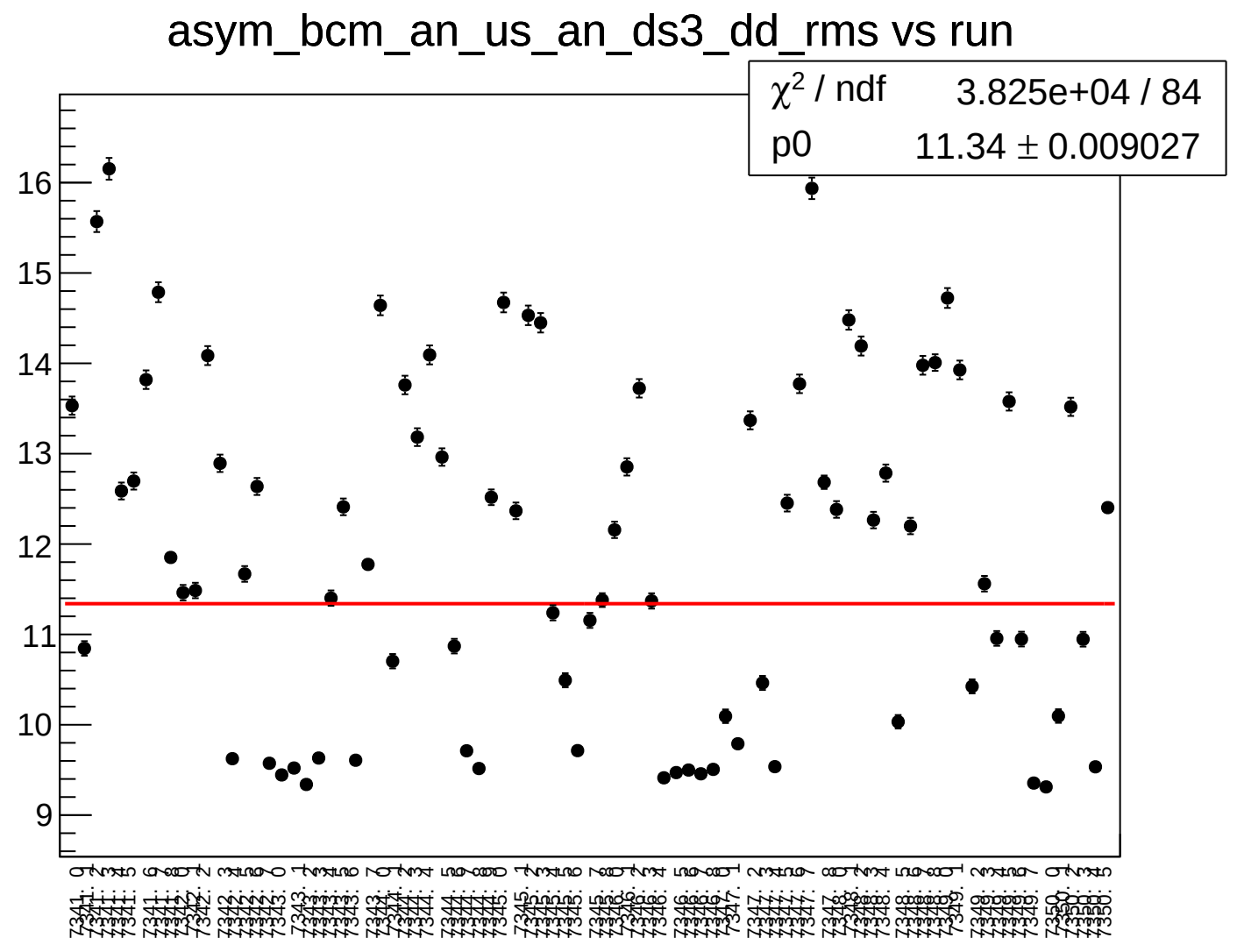

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 3.259e+04 / 84
p0 11.87 ± 0.009429
17
16
15
14
13
12
11
10

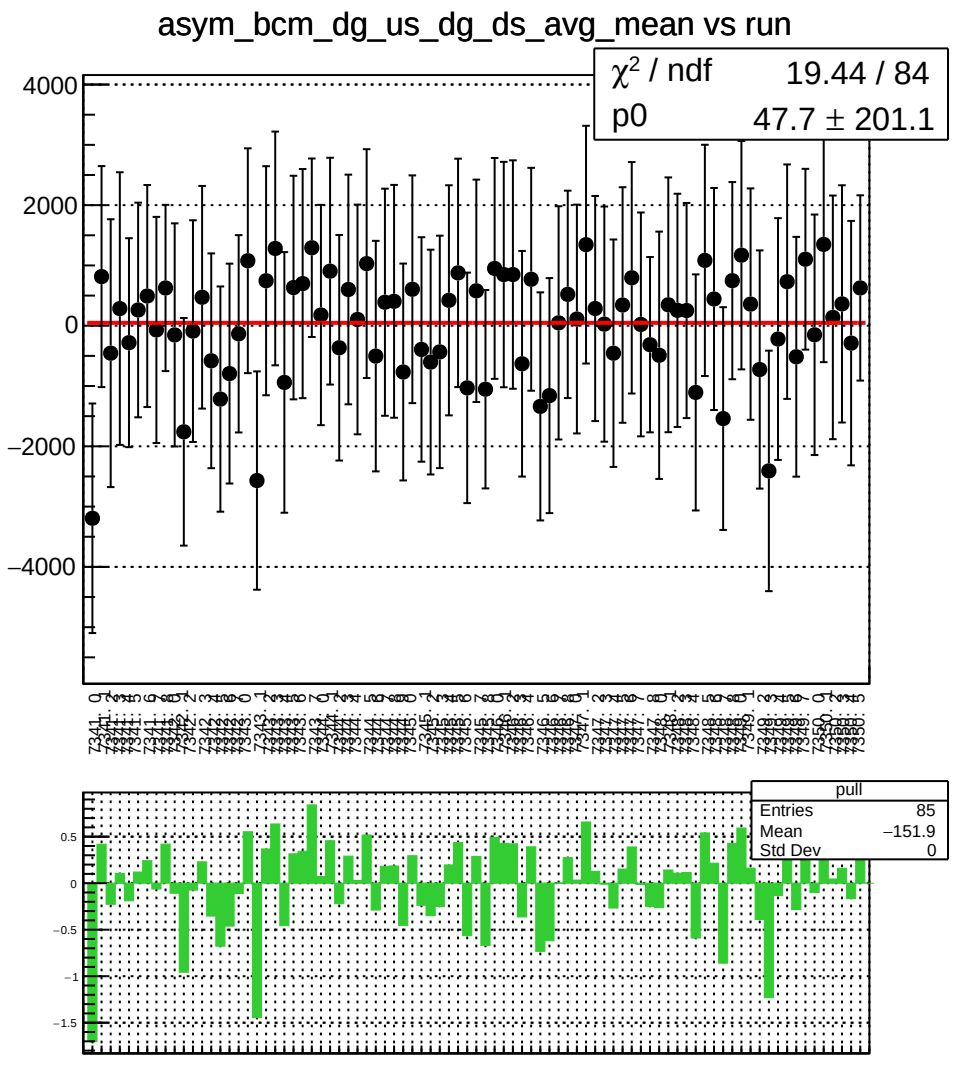

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 18.38 / 84
p0 −4.208 ± 200.7
pull
Entries 85
Mean −227
Std Dev 0
pull1D
Entries 85
Mean −0.006492
Std Dev 0.4649

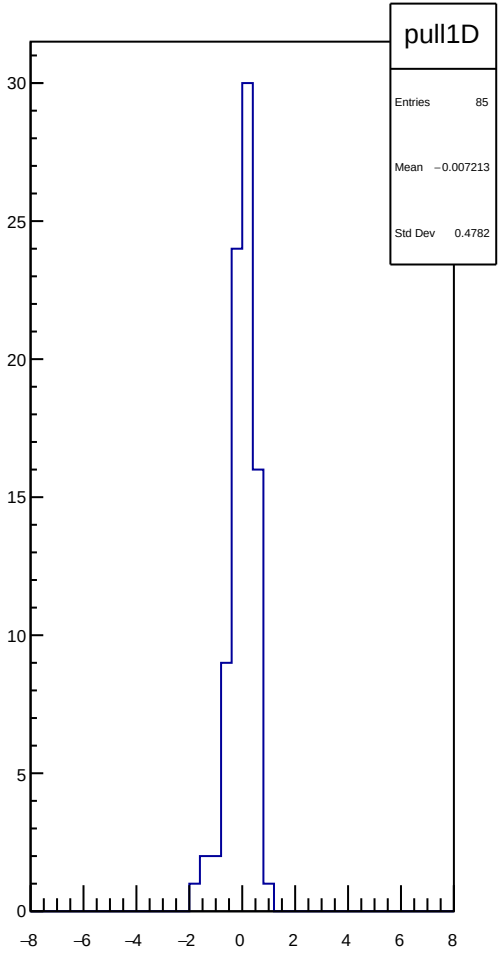

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3157 / 84
p0 180.3 ± 0.1419
220
210
200
190
180
170
160

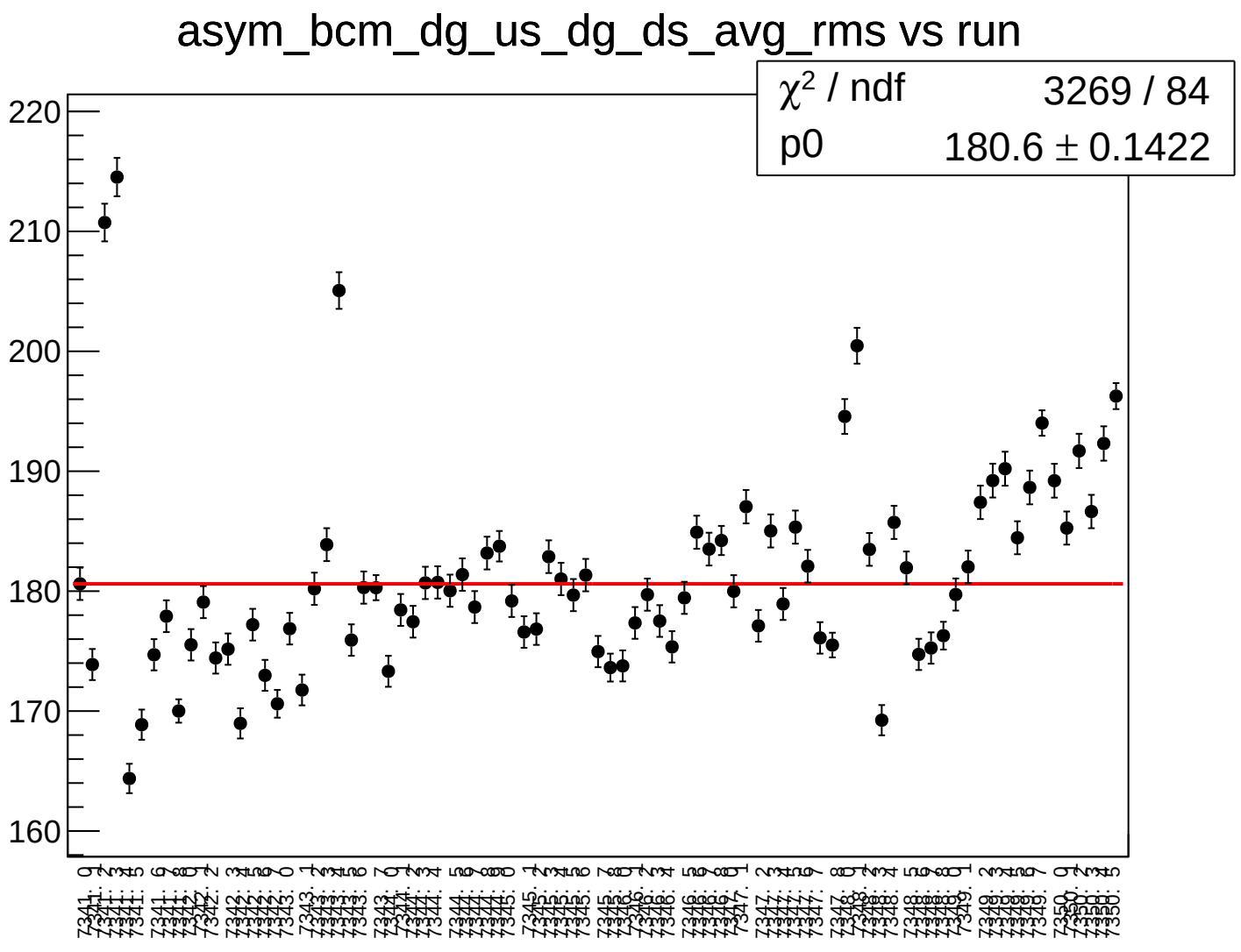

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 103.1 / 84
p0 −10.48 ± 12.77
400
200
0
−200
−400
pull
Entries 85
Mean −14.47
Std Dev 0
3
2
1
0
−1
−2

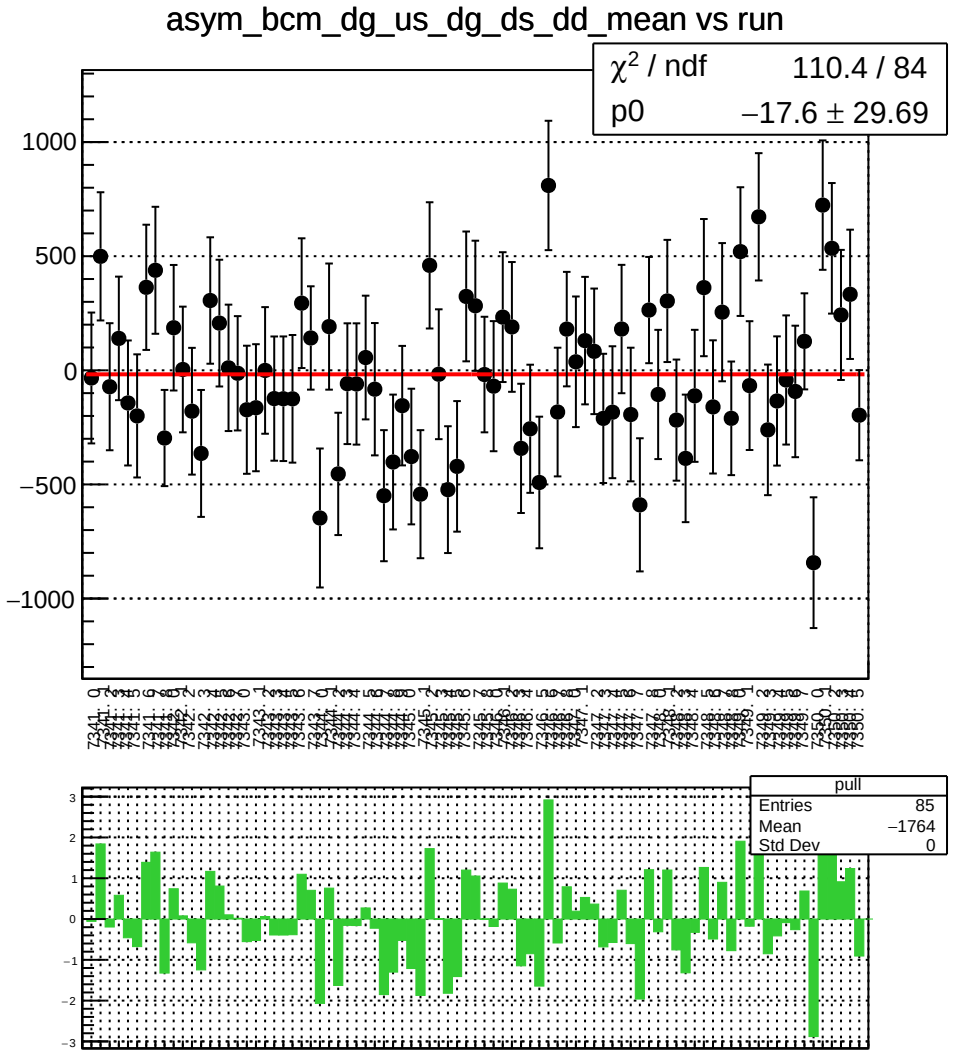

pull1D
Entries 85
Mean 0.01669
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

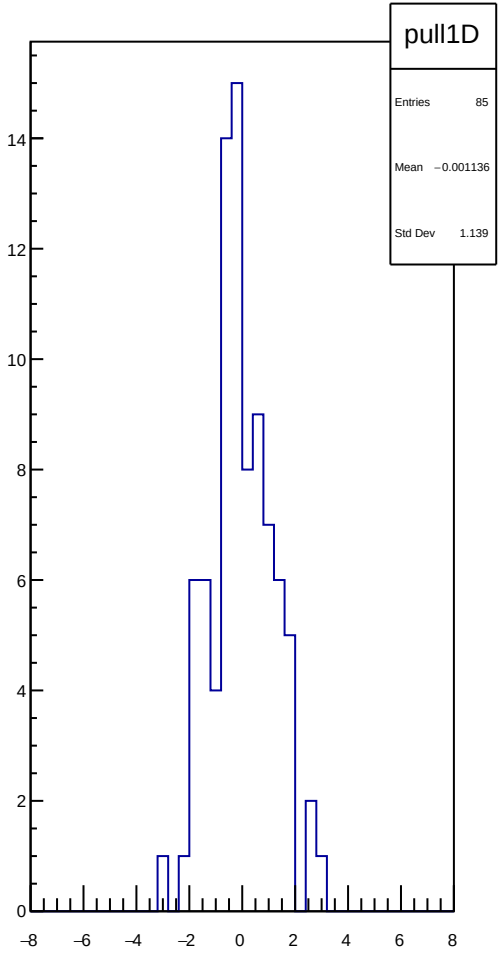

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 3.825e+04 / 84
p0 11.34 ± 0.009027
16
15
14
13
12
11
10
9

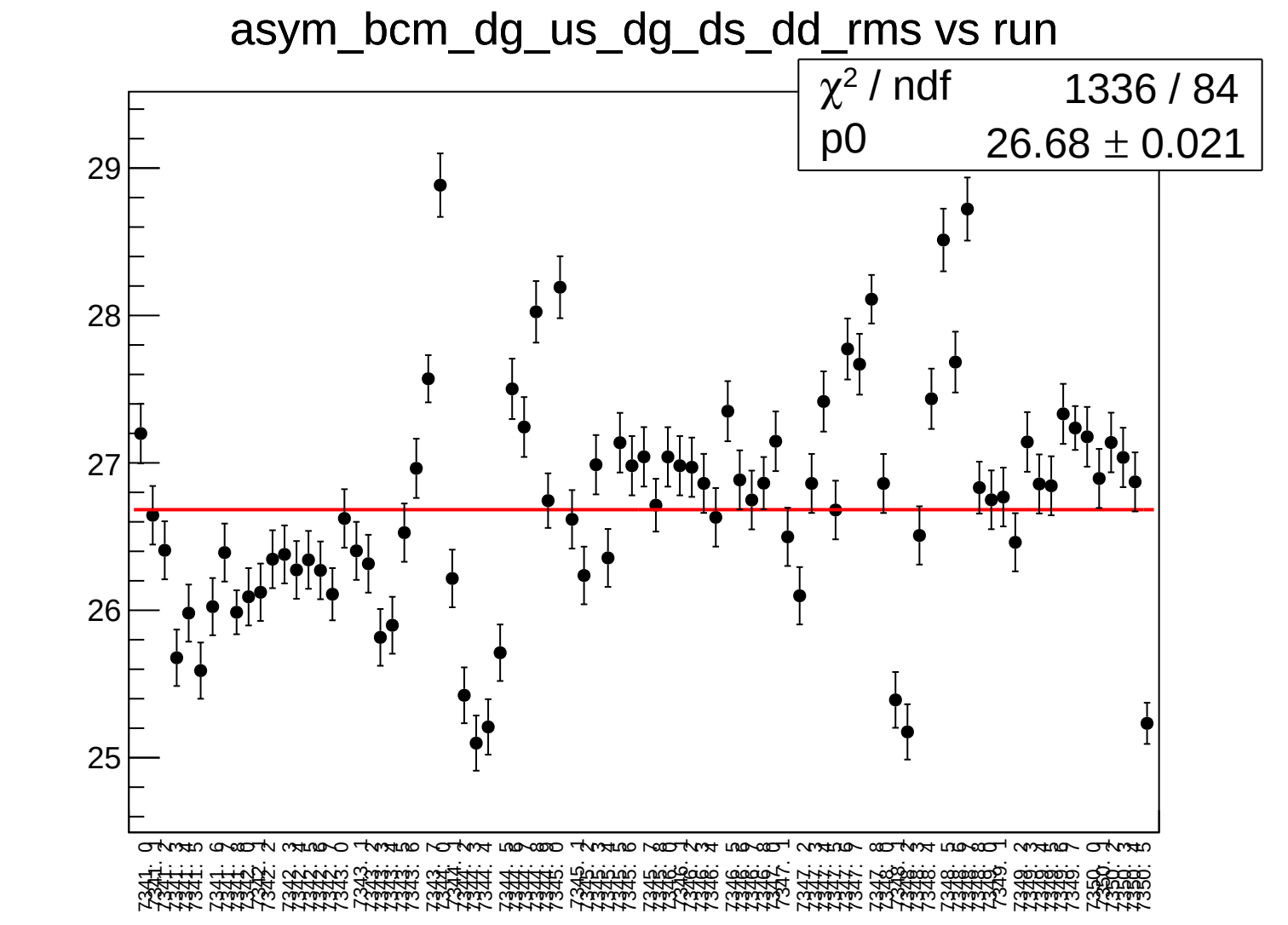

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 19.44 / 84
p0 47.7 ± 201.1
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −151.9
Std Dev 0
0.5
0
−0.5
−1
−1.5

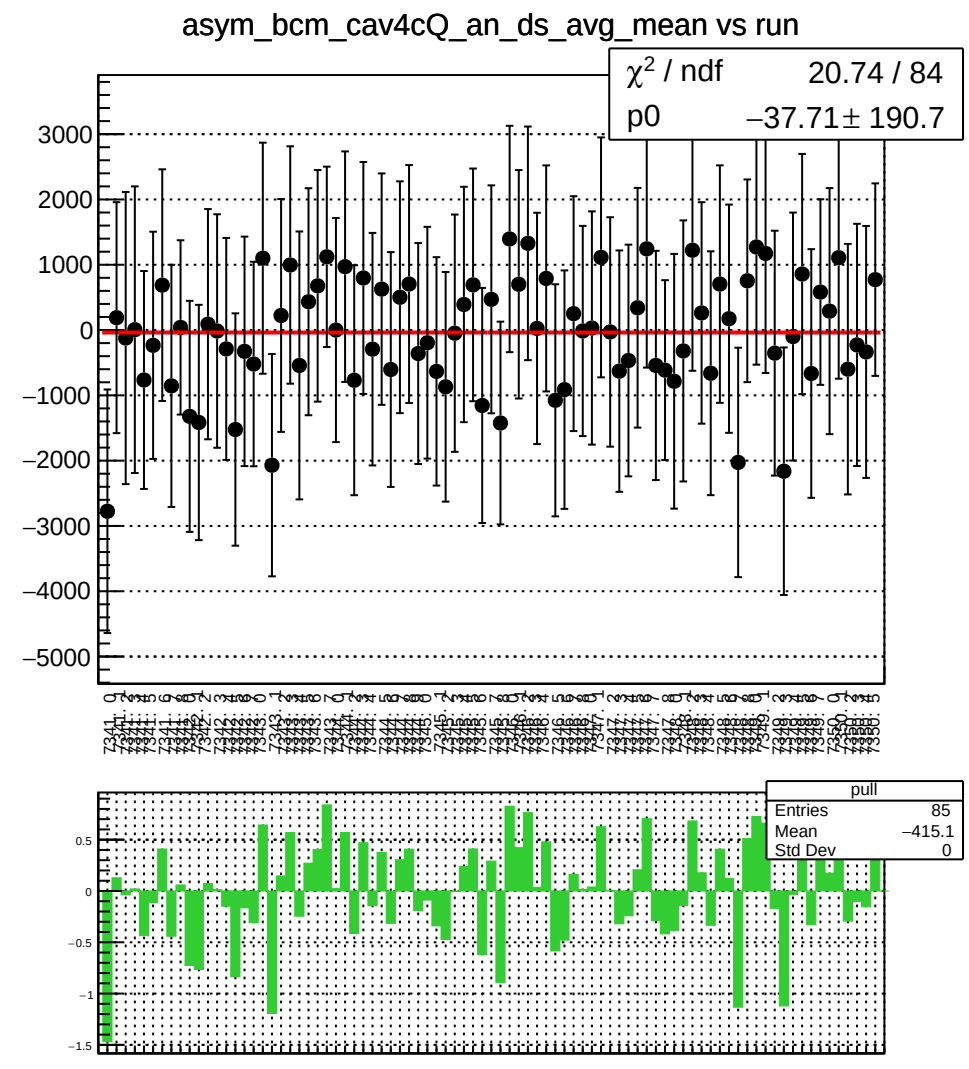

pull1D
Entries 85
Mean −0.007213
Std Dev 0.4782
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

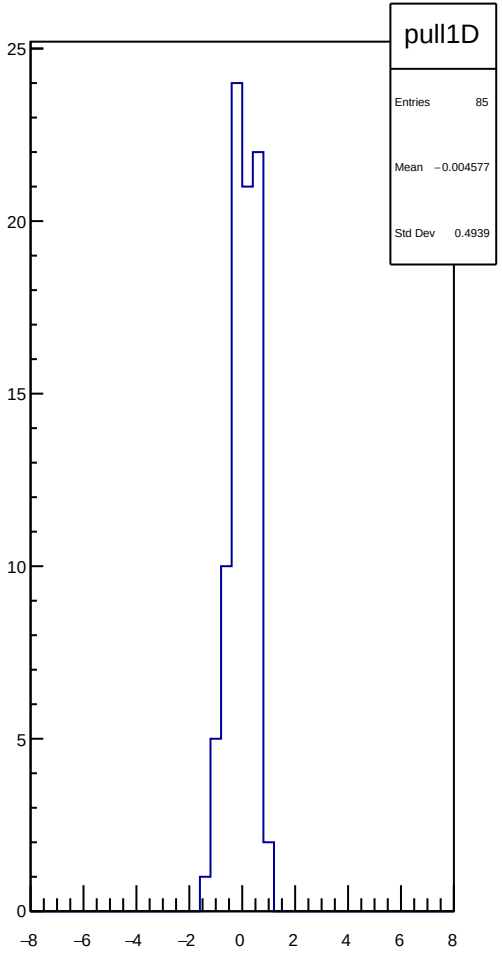

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 3269 / 84
p0 180.6 ± 0.1422
220
210
200
190
180
170
160

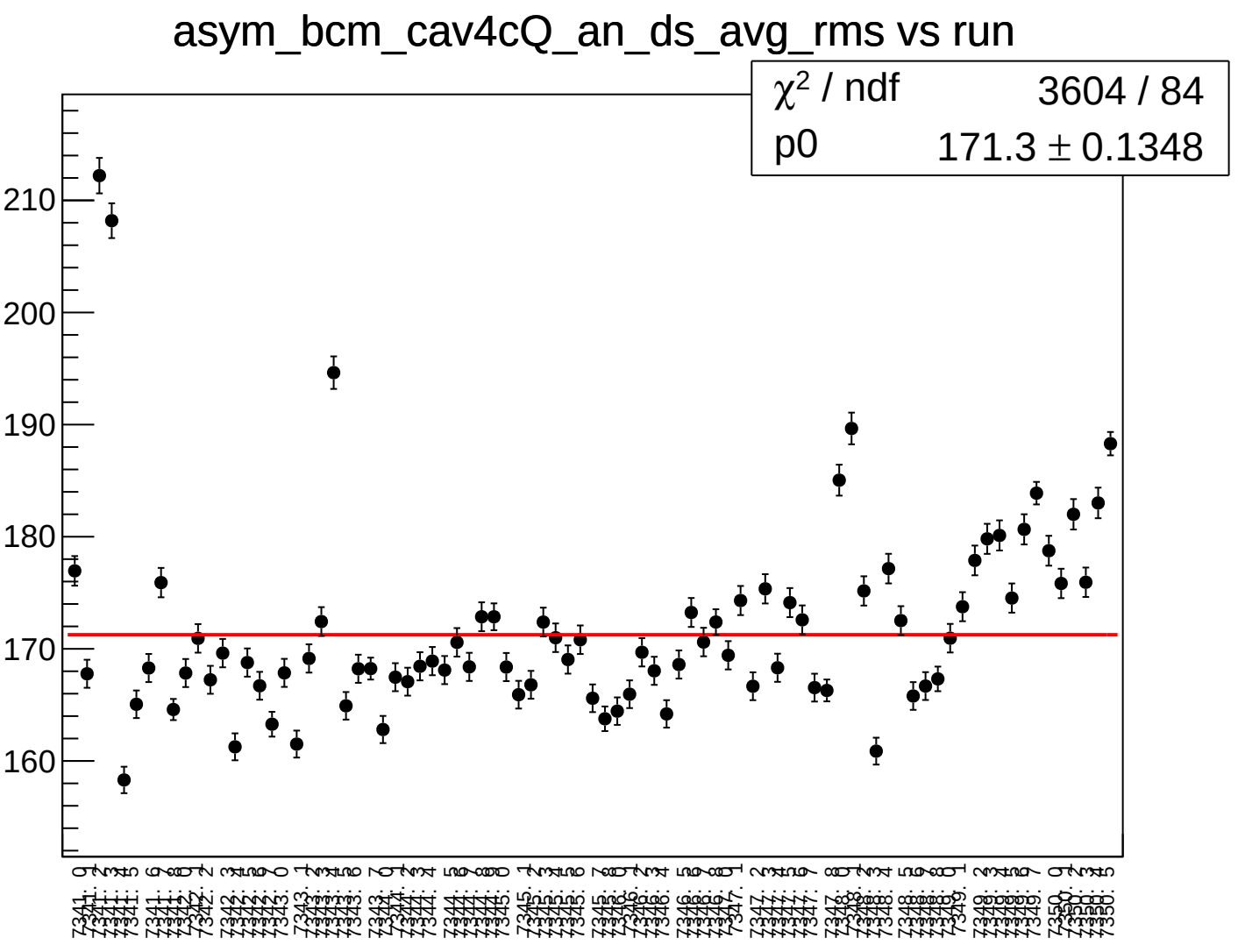

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 110.4 / 84
p0 −17.6 ± 29.69
1000
500
0
−500
−1000
pull
Entries 85
Mean −1764
Std Dev 0
3
2
1
0
−1
−2
−3

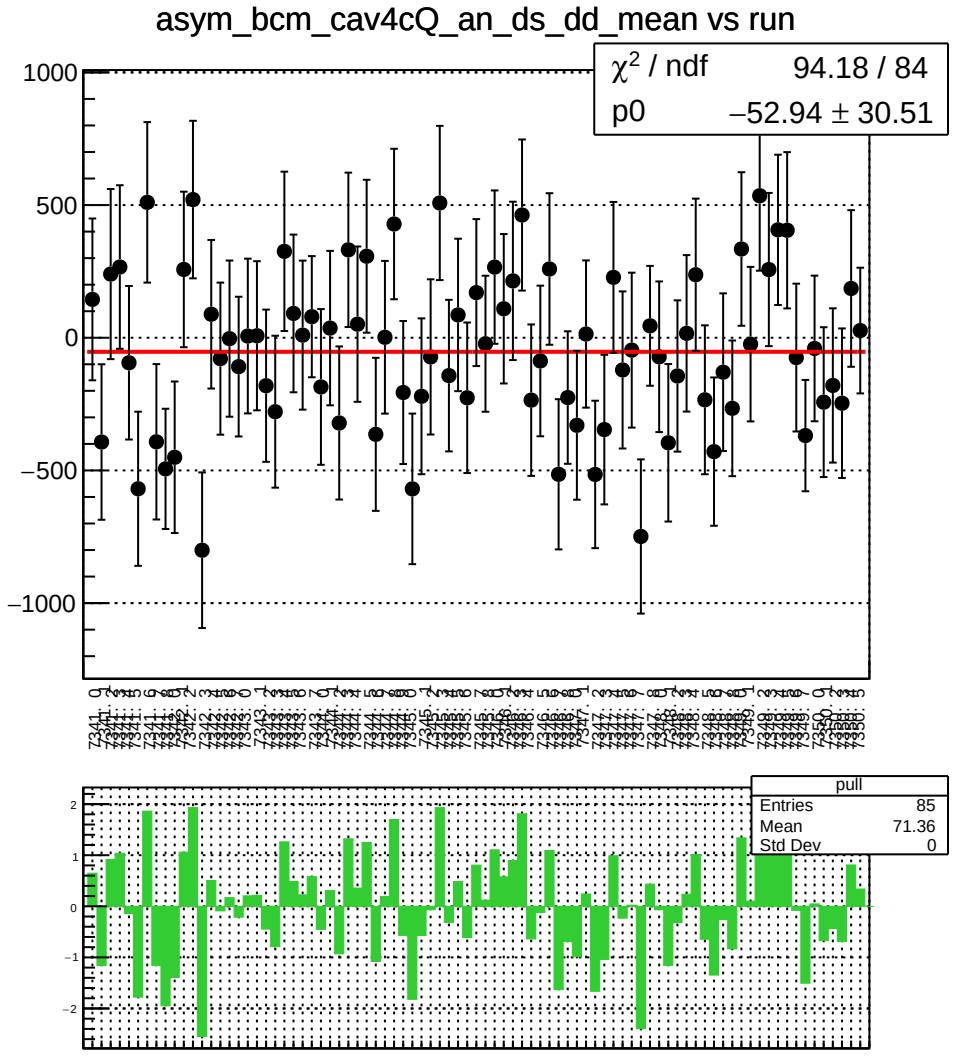

pull1D
Entries 85
Mean −0.001136
Std Dev 1.139
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

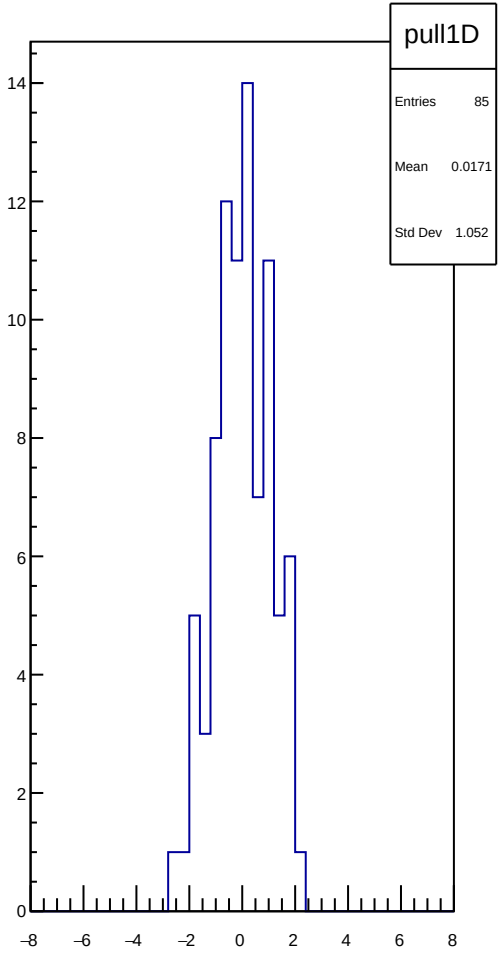

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1336 / 84
p0 26.68 ± 0.021
29
28
27
26
25

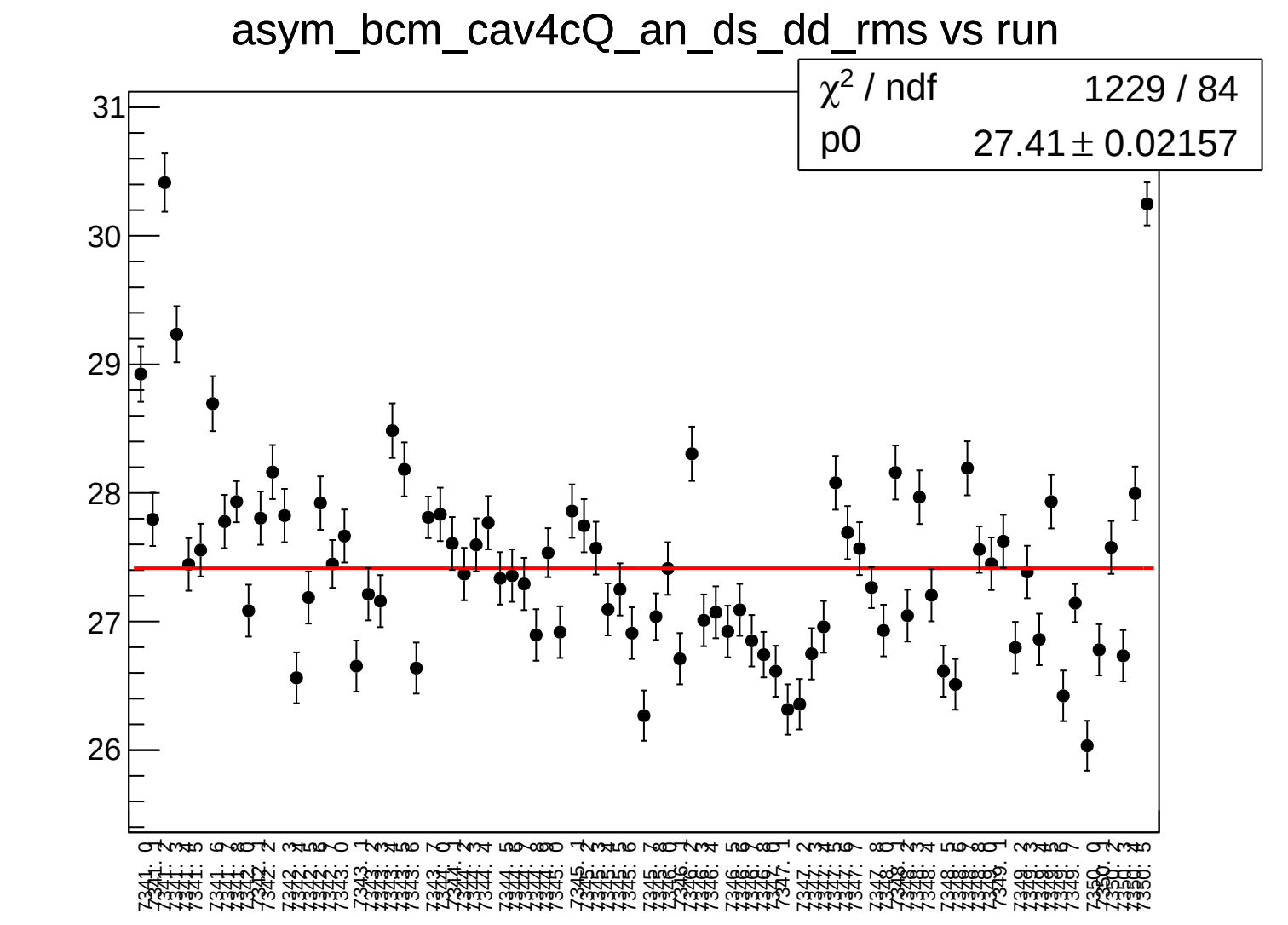

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 20.74 / 84
p0 −37.71 ± 190.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 85
Mean −415.1
Std Dev 0
0.5
0
−0.5
−1
−1.5

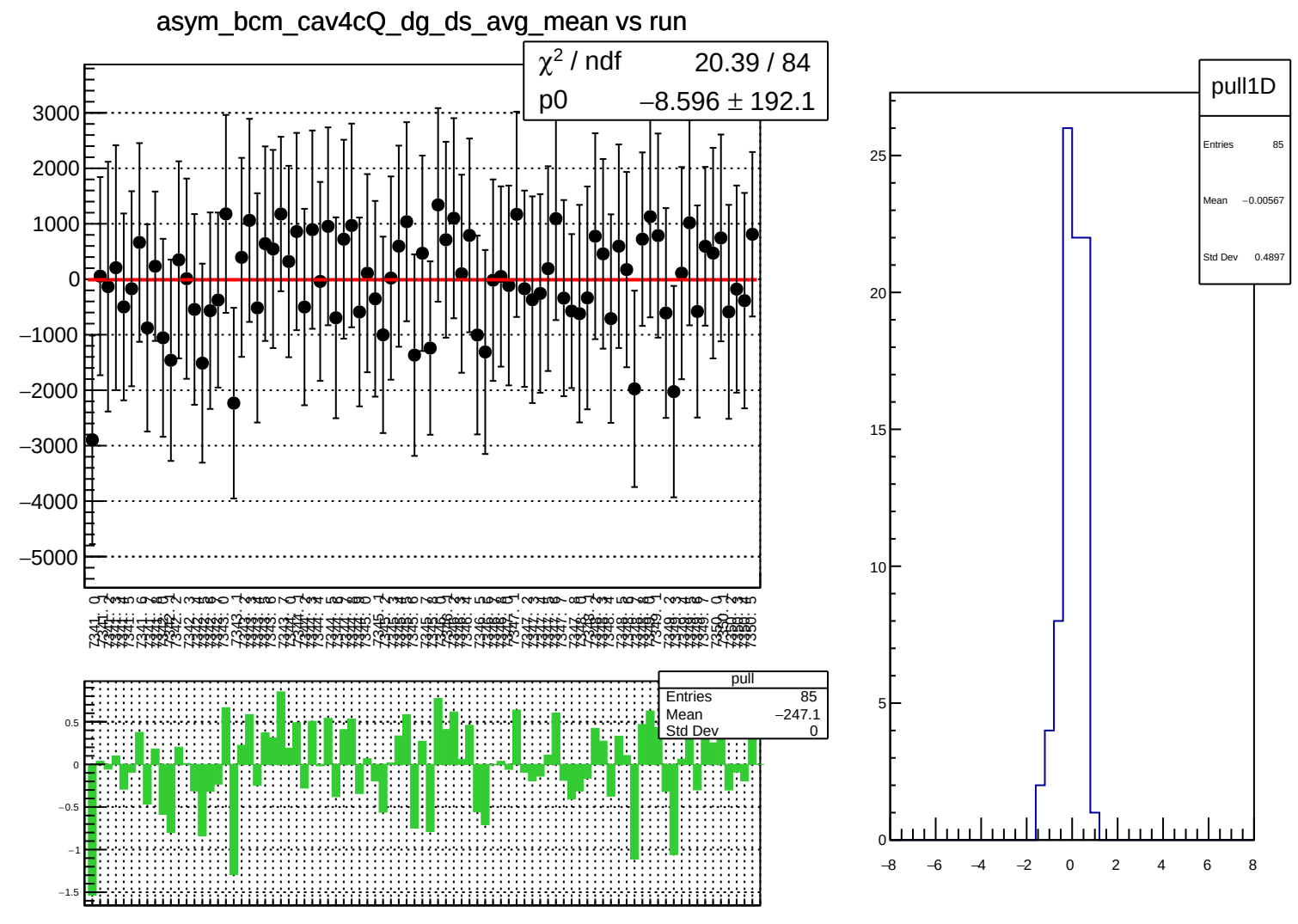

pull1D
Entries 85
Mean −0.004577
Std Dev 0.4939
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

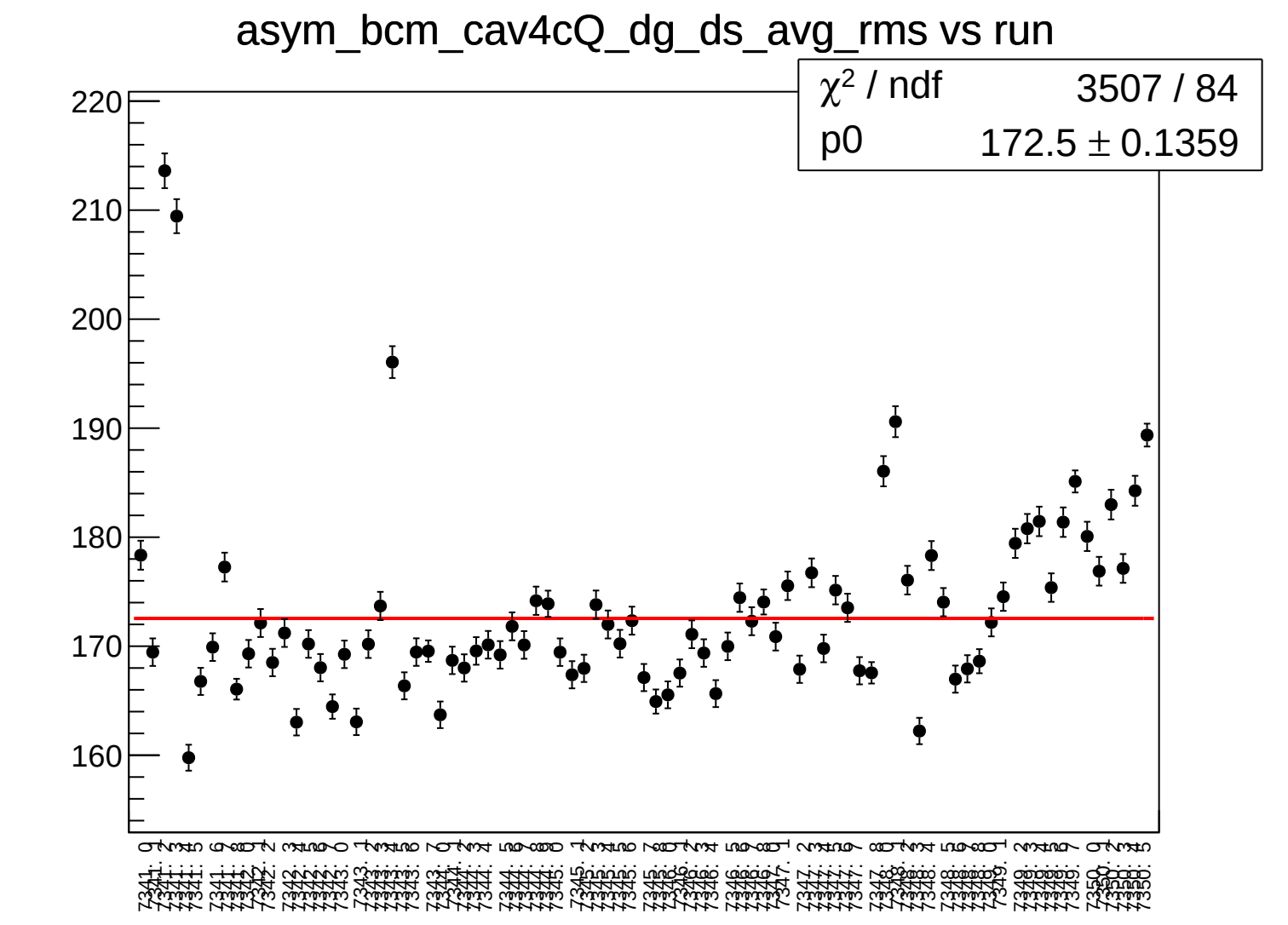

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 3604 / 84
p0 171.3 ± 0.1348
210
200
190
180
170
160

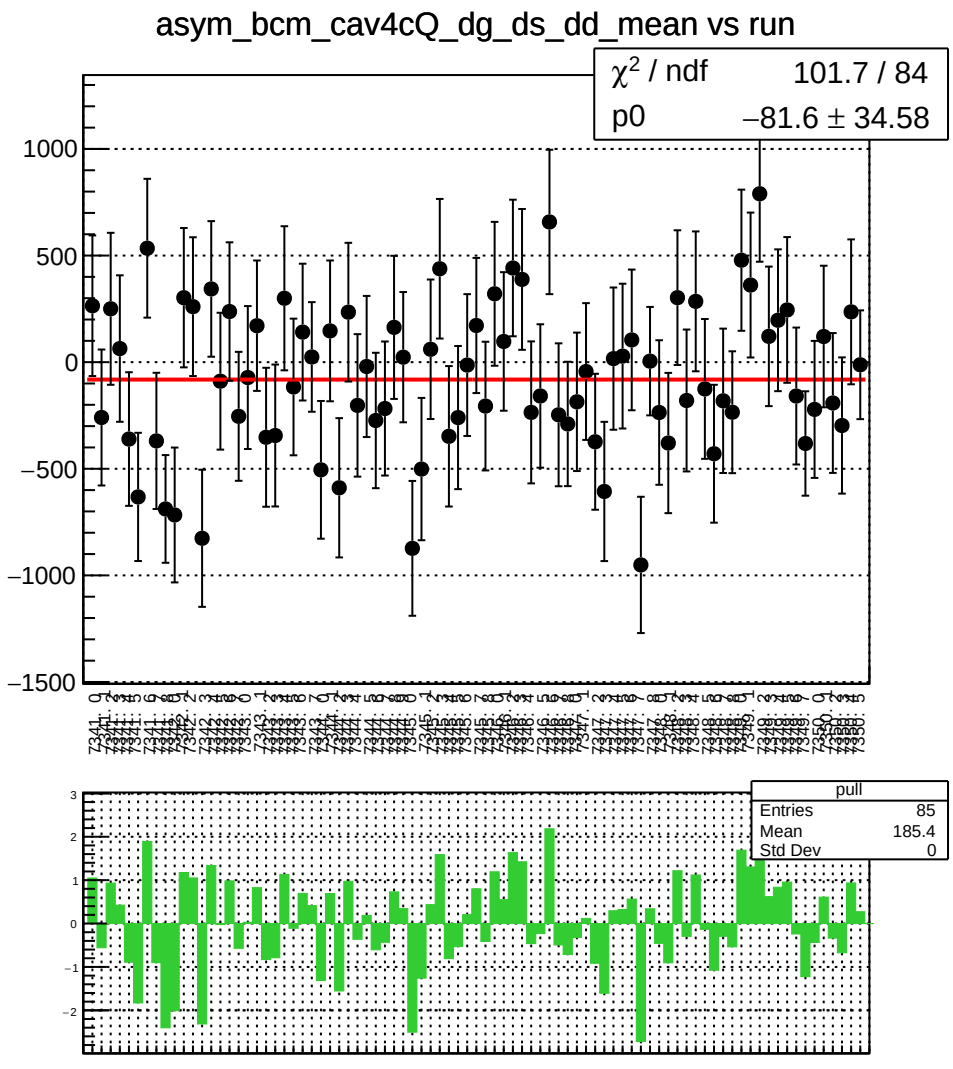

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 94.18 / 84
p0 −52.94 ± 30.51
pull
Entries 85
Mean 71.36
Std Dev 0

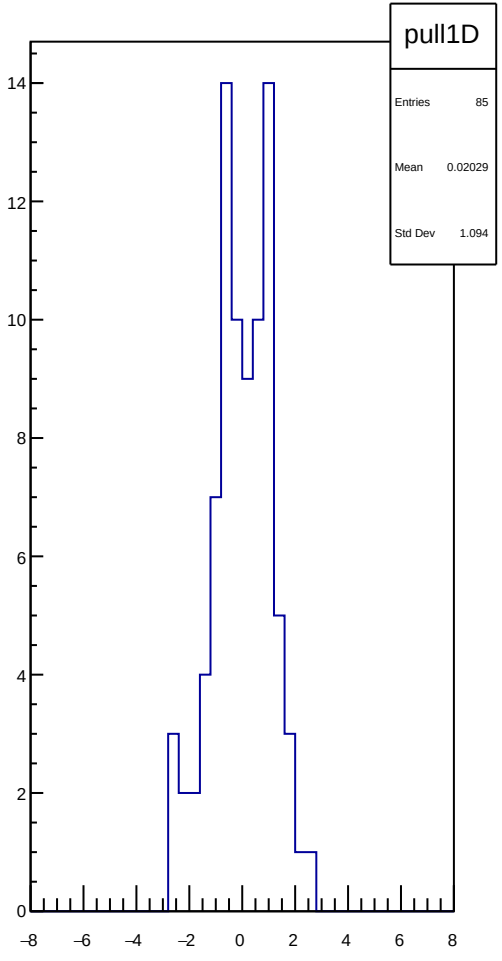

pull1D
Entries 85
Mean 0.0171
Std Dev 1.052

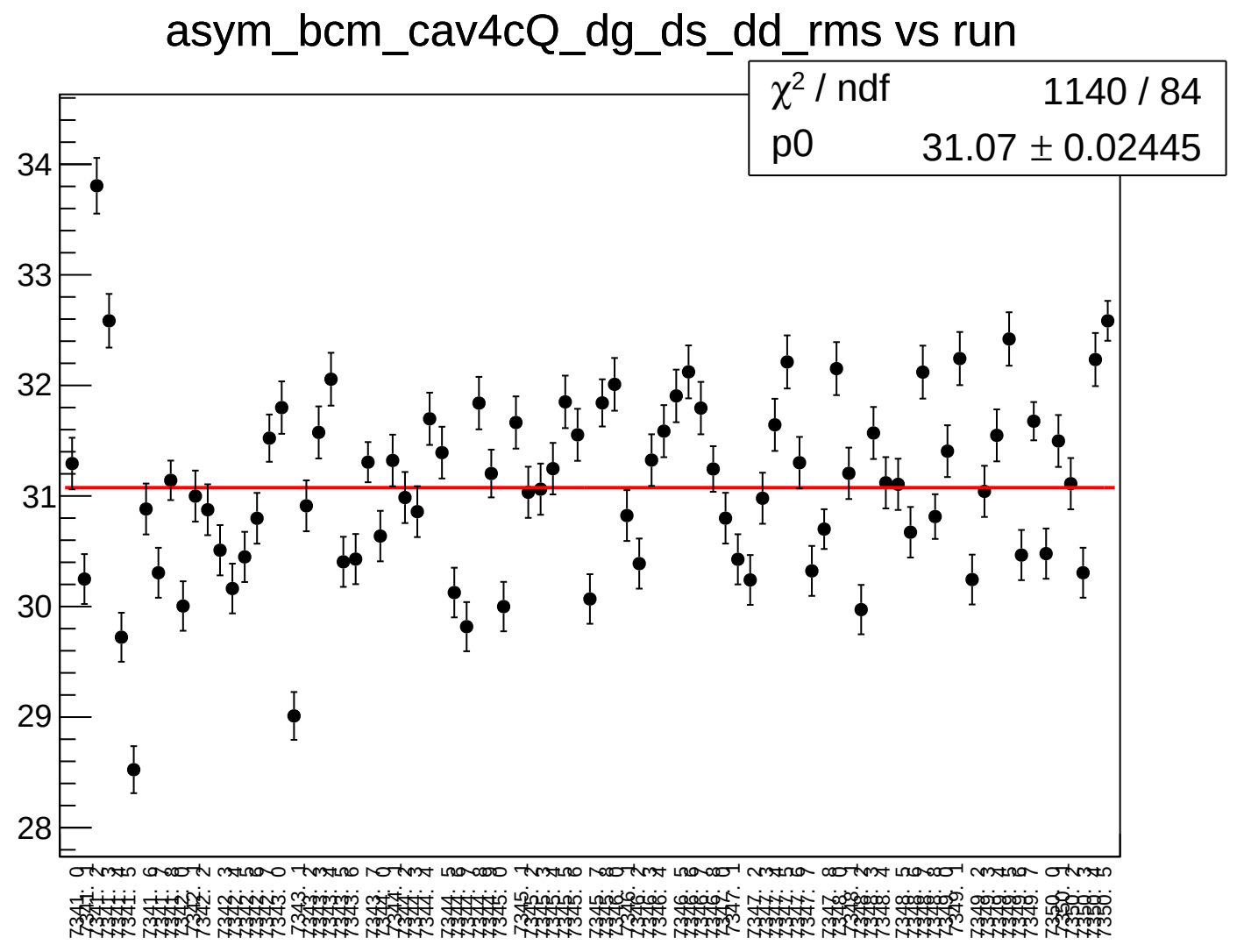

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1229 / 84
p0 27.41 ± 0.02157
31
30
29
28
27
26

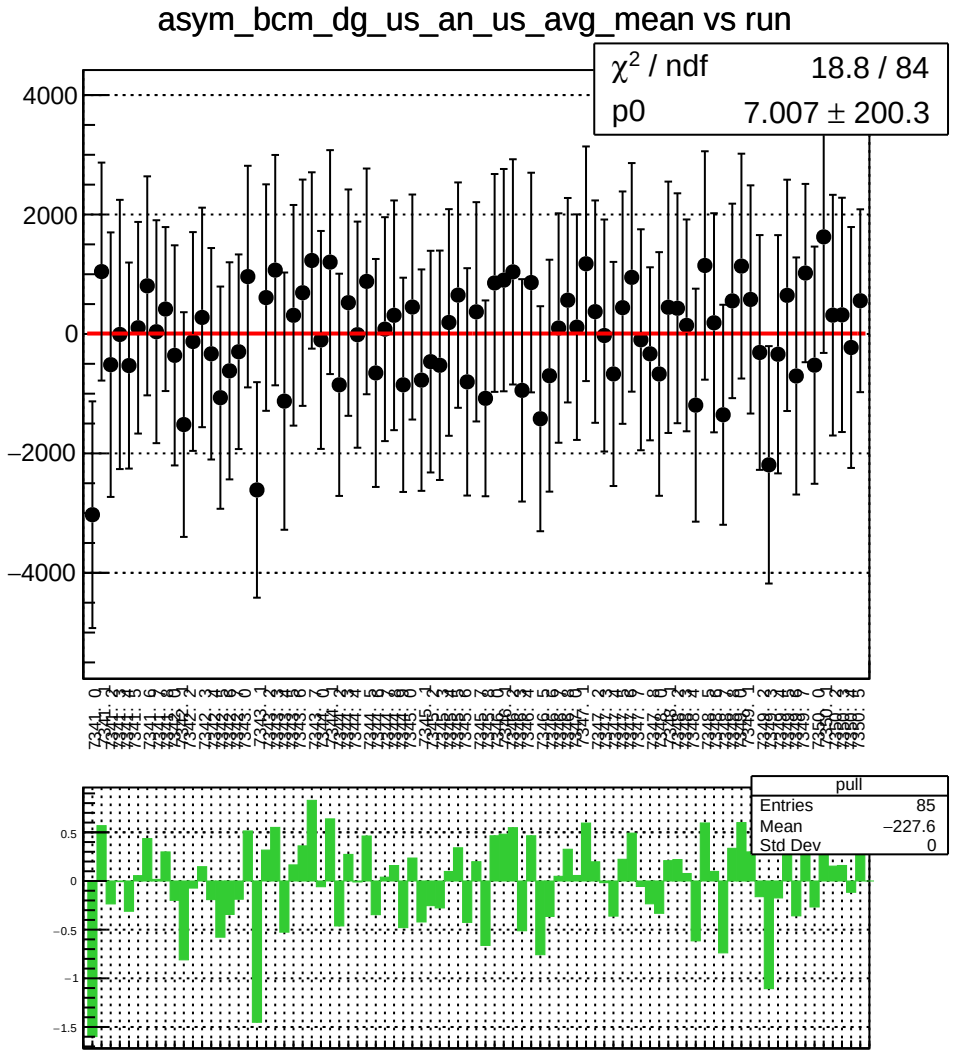

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 20.39 / 84
p0 −8.596 ± 192.1
pull
Entries 85
Mean −247.1
Std Dev 0
pull1D
Entries 85
Mean −0.00567
Std Dev 0.4897

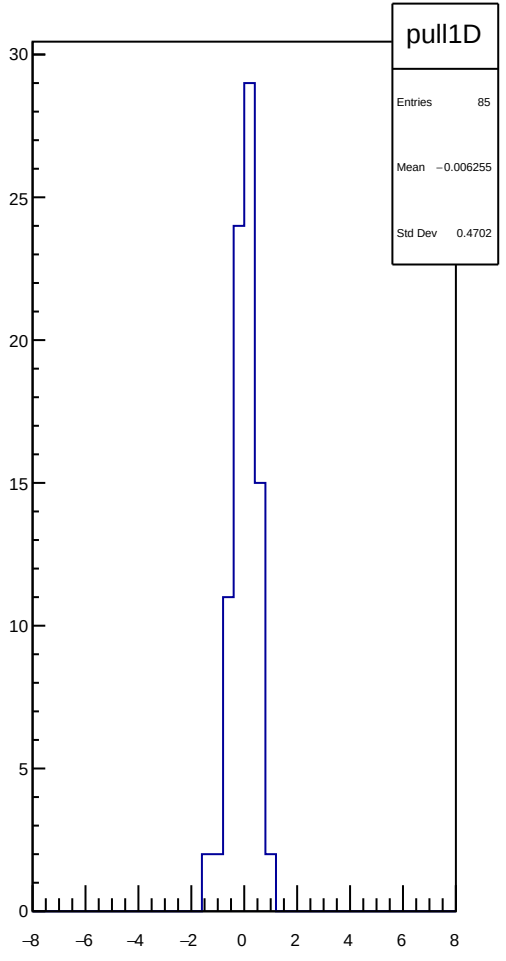

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 3507 / 84
p0 172.5 ± 0.1359
220
210
200
190
180
170
160

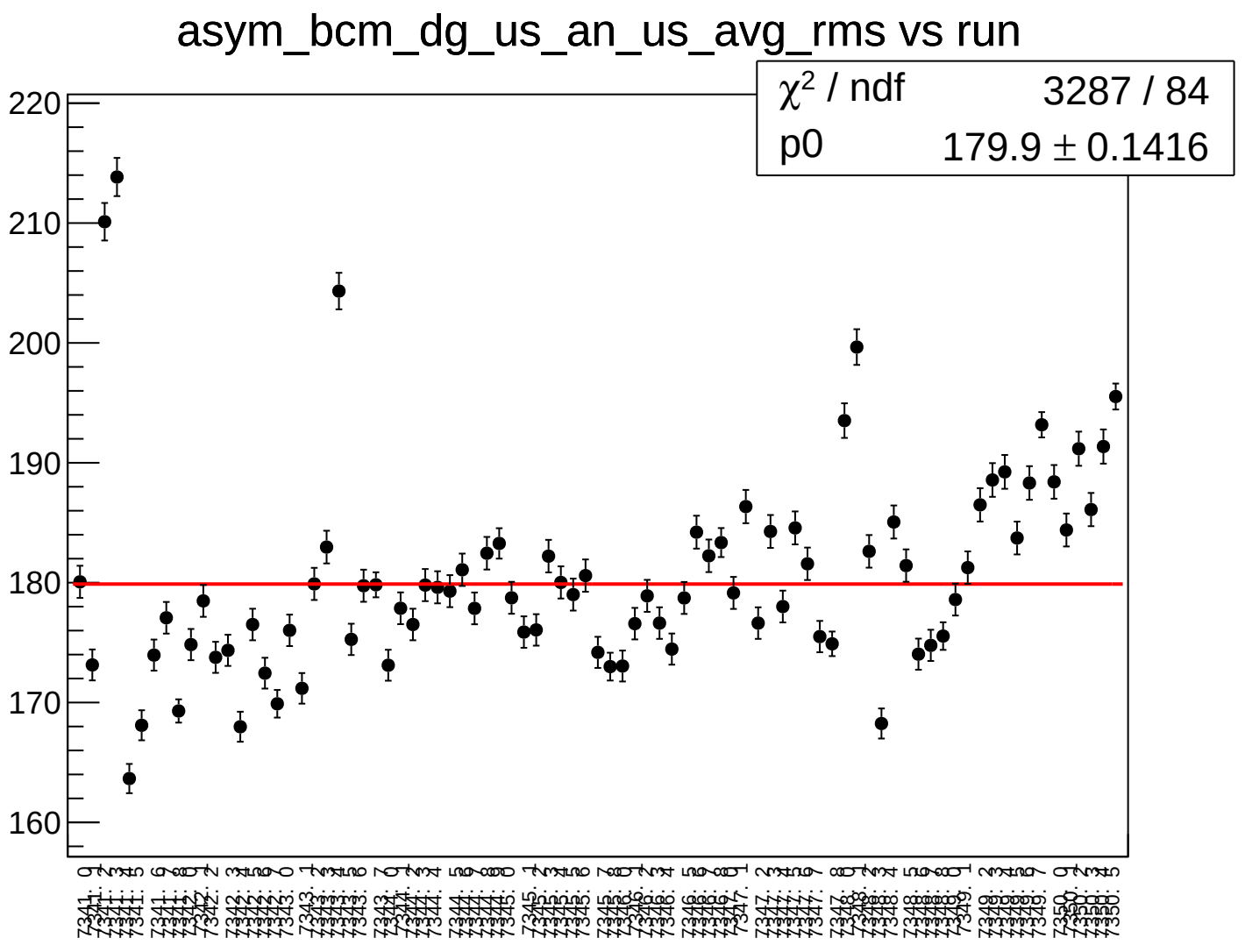

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 101.7 / 84
p0 −81.6 ± 34.58
pull
Entries 85
Mean 185.4
Std Dev 0

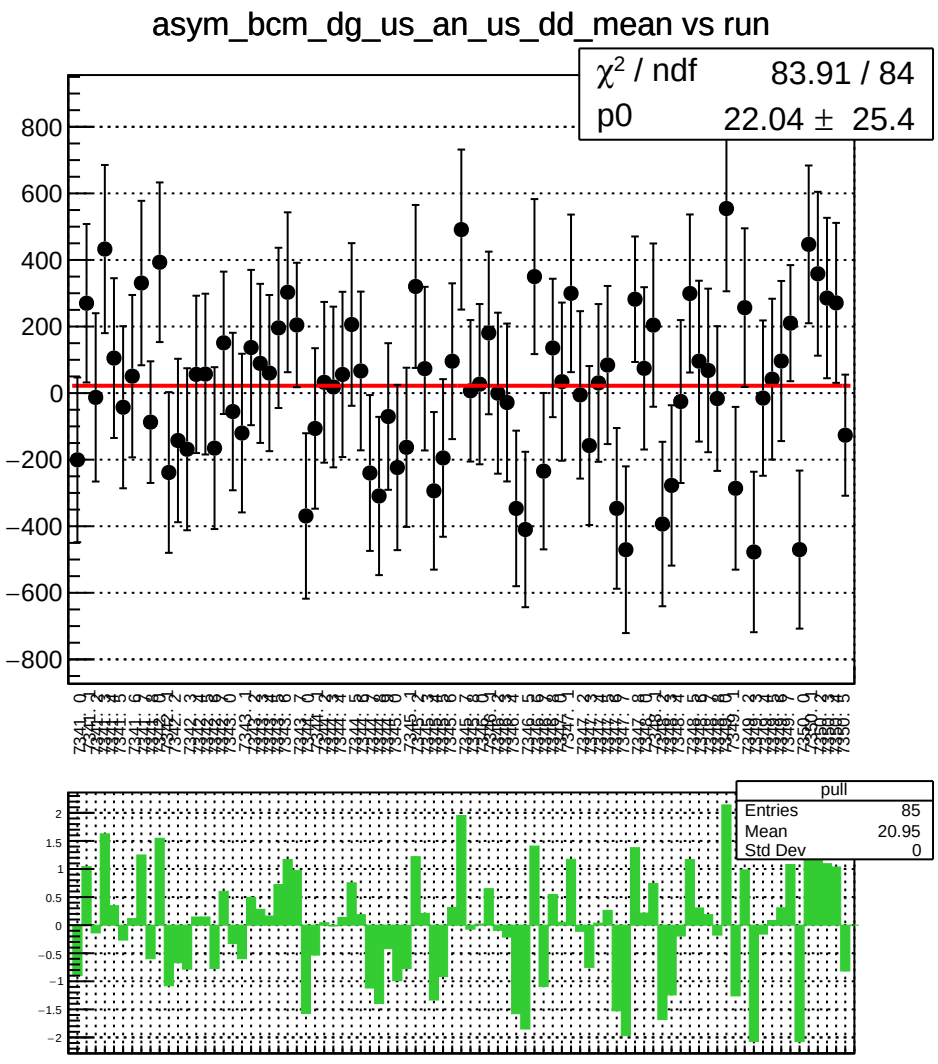

pull1D
Entries 85
Mean 0.02029
Std Dev 1.094

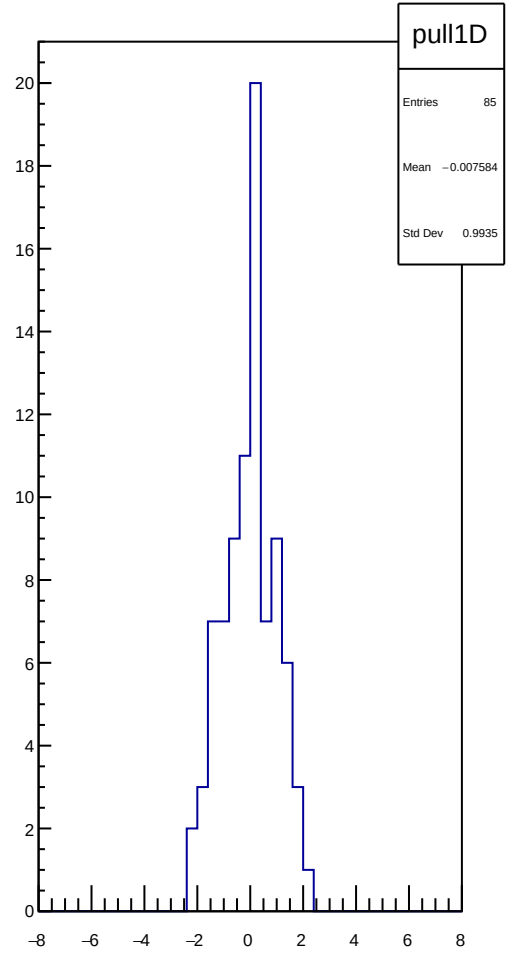

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 1140 / 84
p0 31.07 ± 0.02445
34
33
32
31
30
29
28

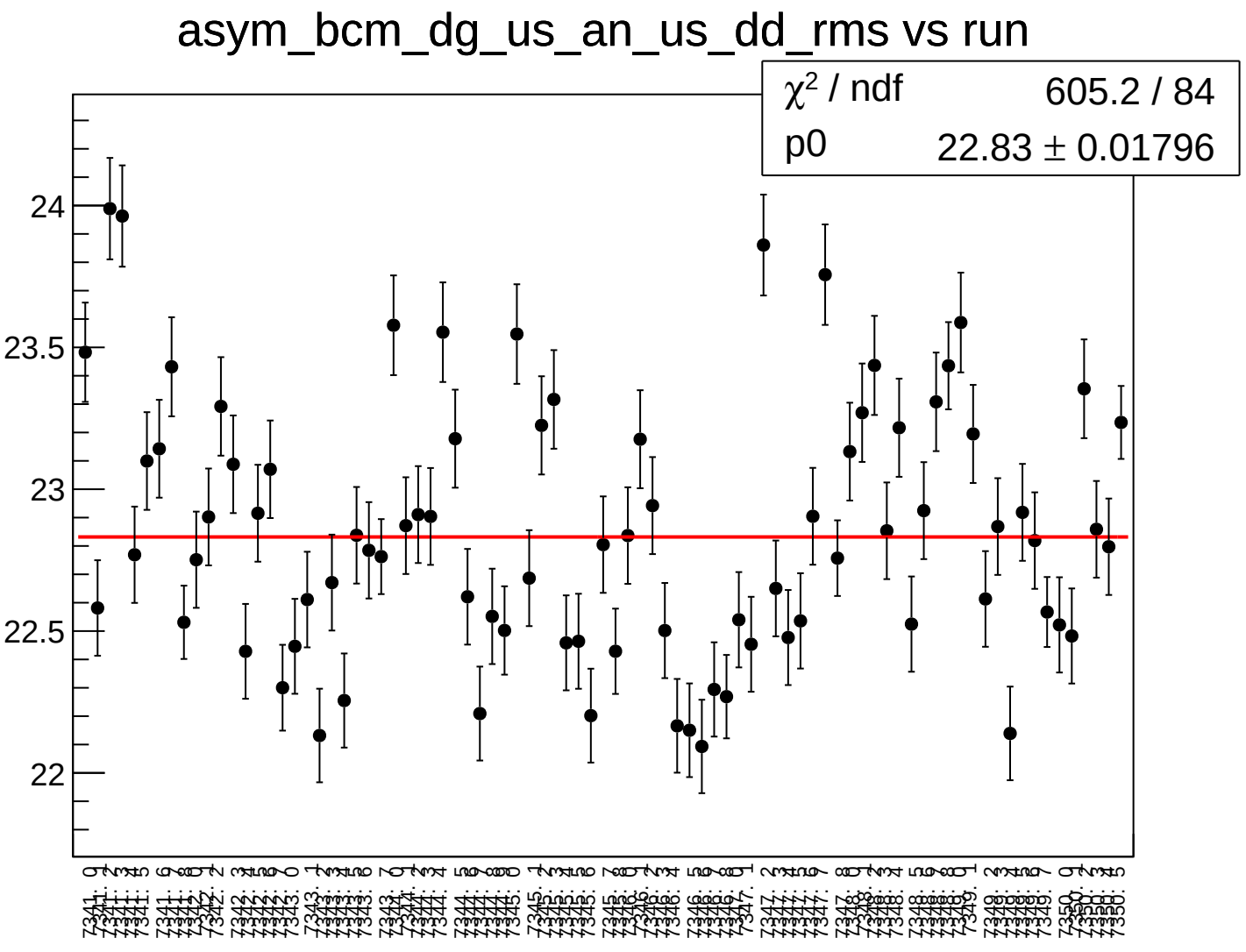

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 18.8 / 84
p0 7.007 ± 200.3
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −227.6
Std Dev 0
0.5
0
−0.5
−1
−1.5

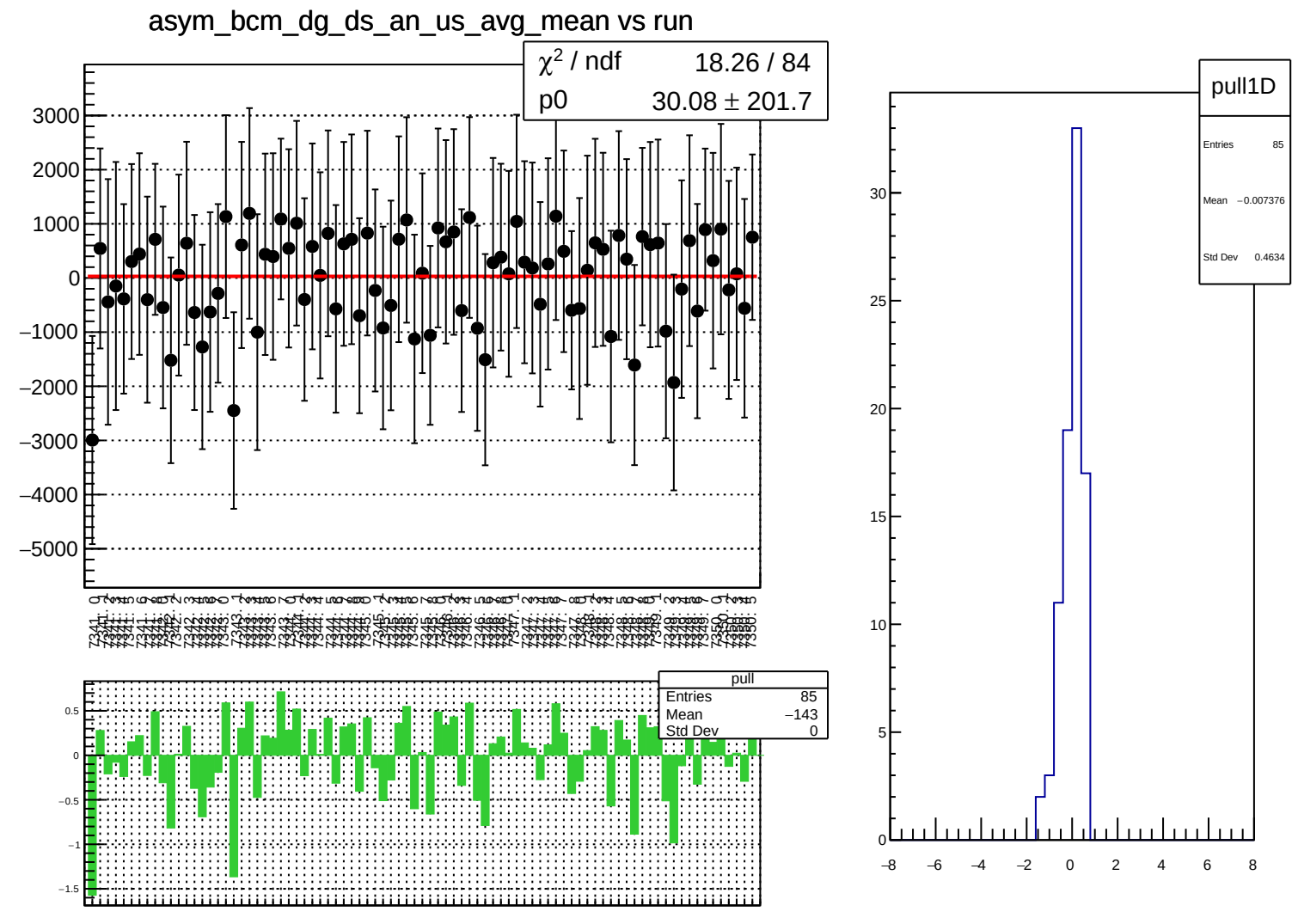

pull1D
Entries 85
Mean −0.006255
Std Dev 0.4702
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

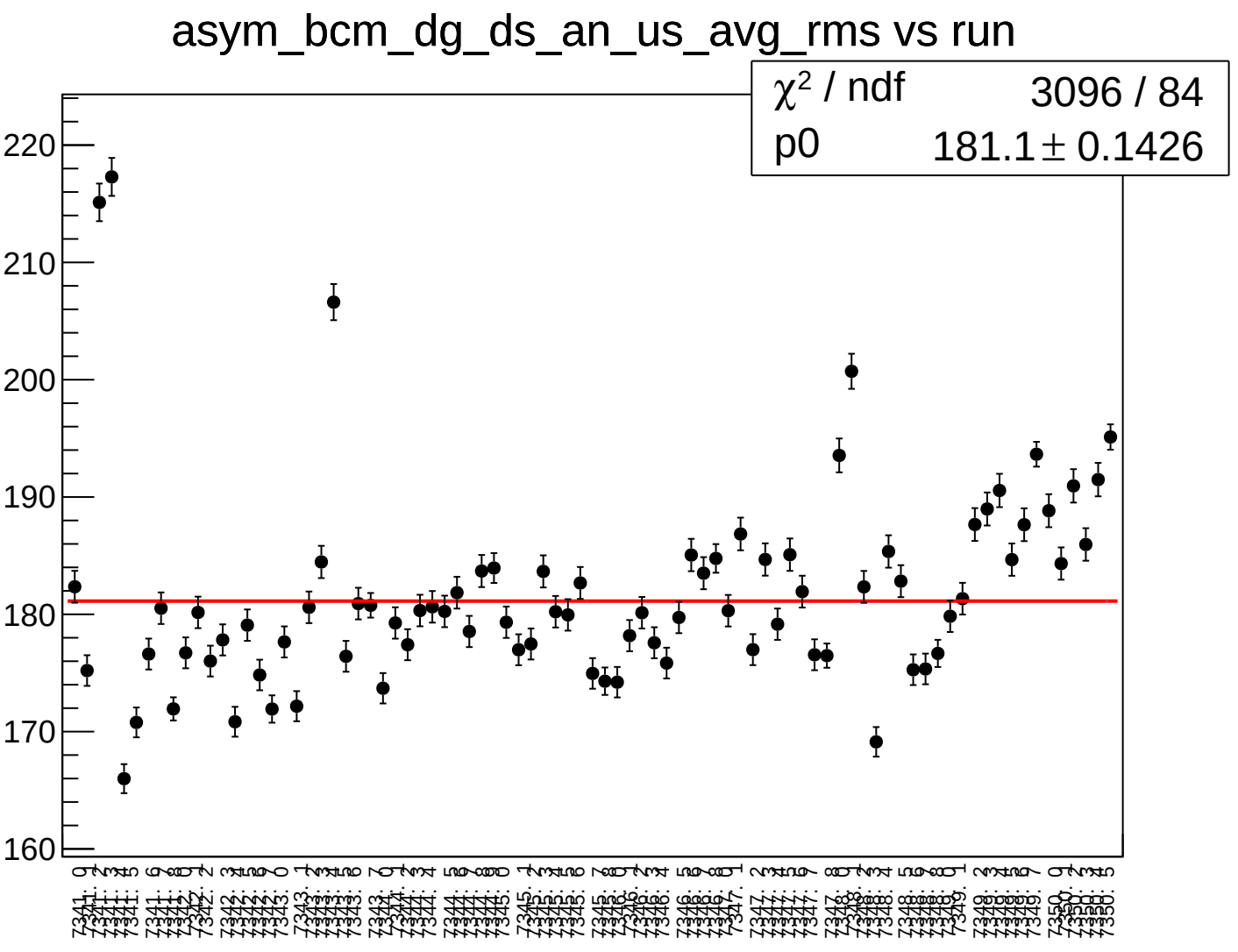

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3287 / 84
p0 179.9 ± 0.1416
220
210
200
190
180
170
160

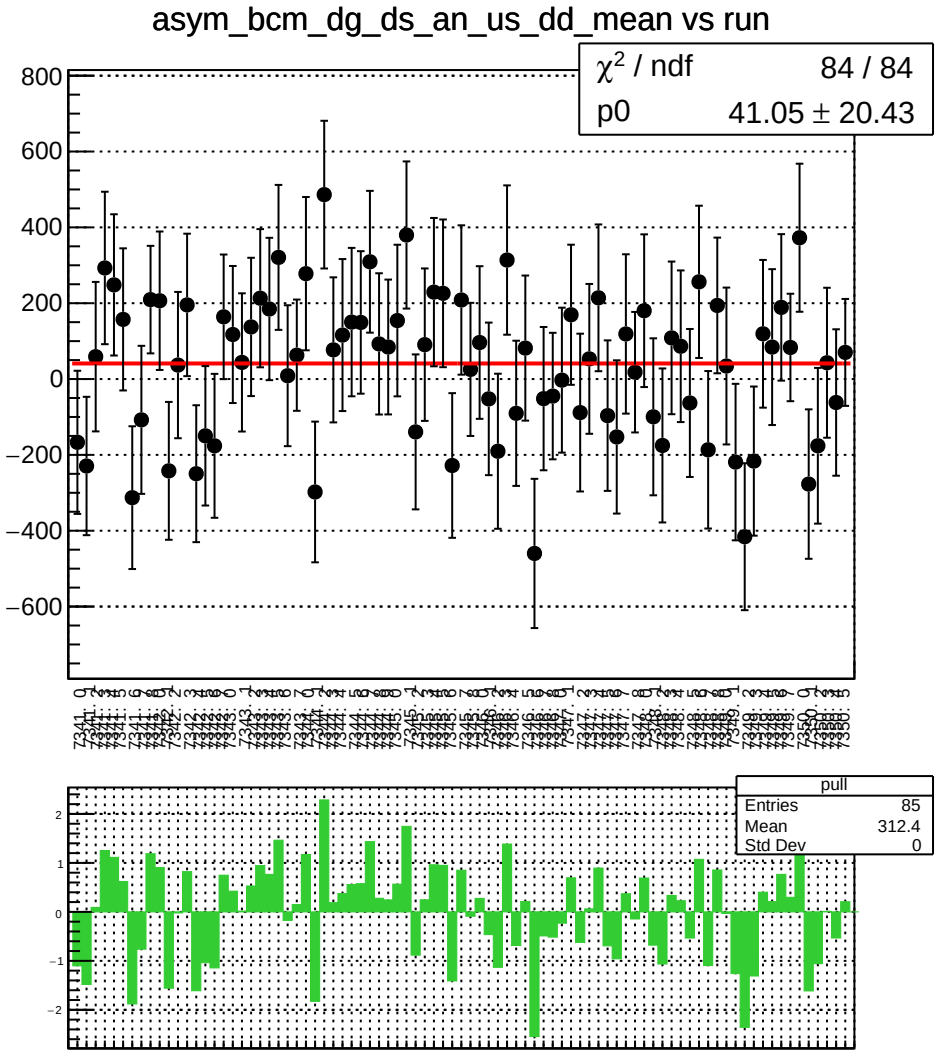

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 83.91 / 84
p0 22.04 ± 25.4
pull
Entries 85
Mean 20.95
Std Dev 0

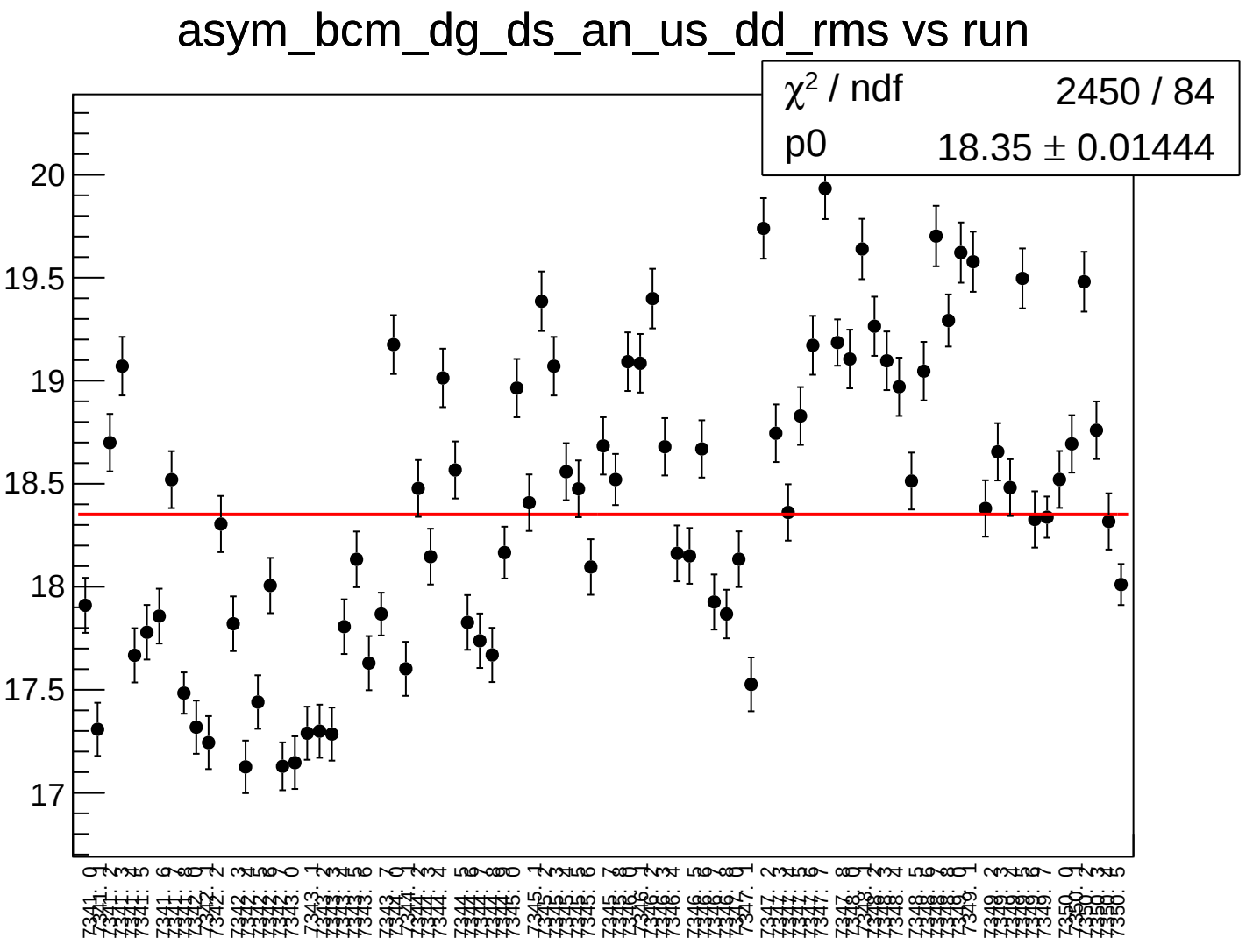

pull1D
Entries 85
Mean −0.007584
Std Dev 0.9935

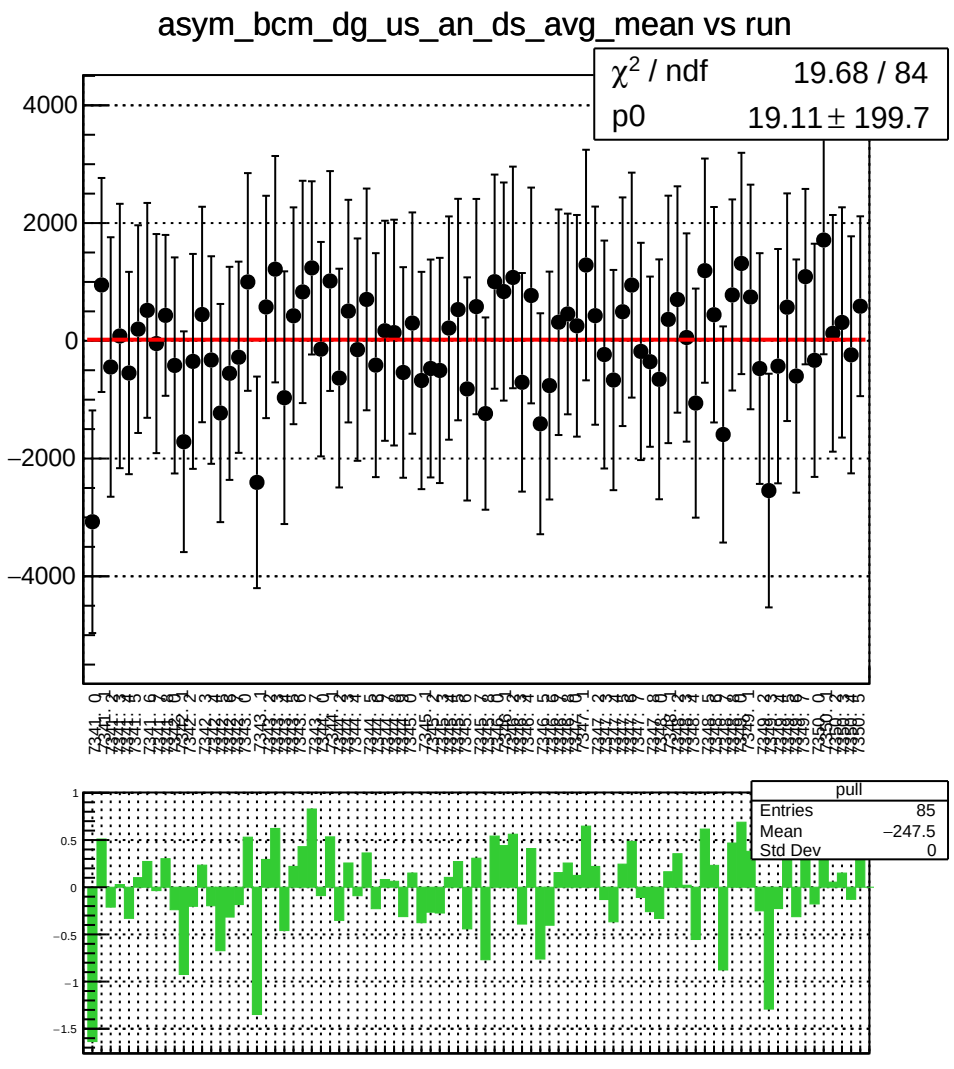

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 605.2 / 84
p0 22.83 ± 0.01796
24
23.5
23
22.5
22

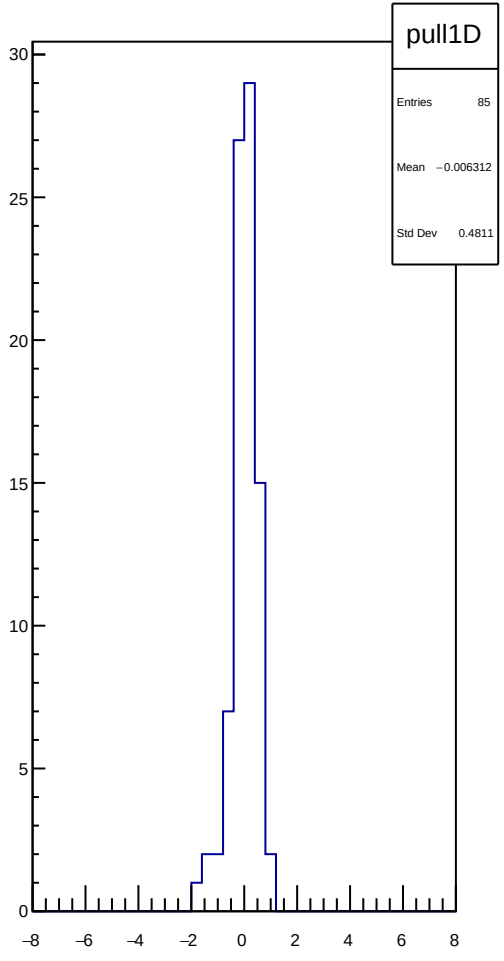

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 18.26 / 84
p0 30.08 ± 201.7
pull
Entries 85
Mean −143
Std Dev 0
pull1D
Entries 85
Mean −0.007376
Std Dev 0.4634

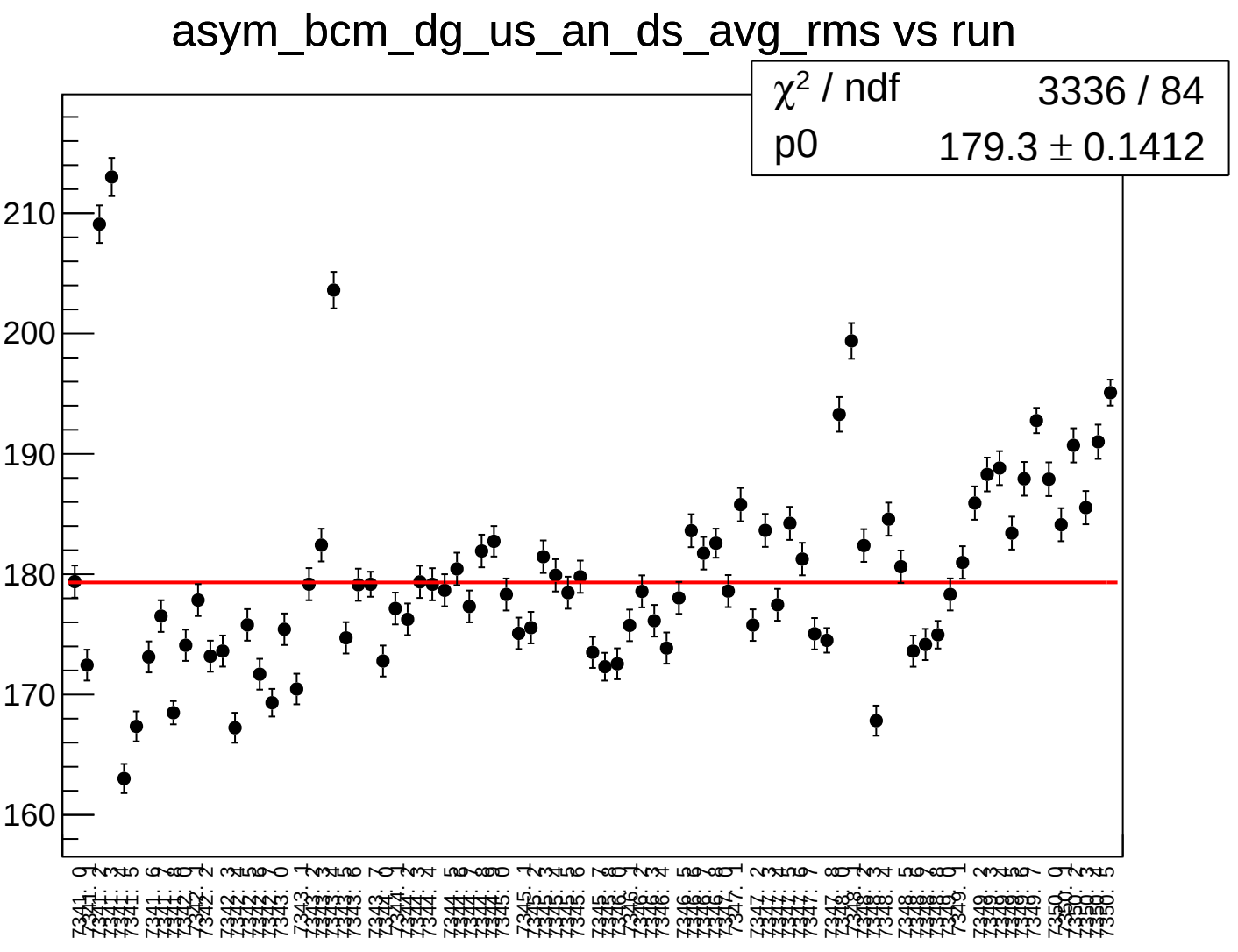

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 3096 / 84
p0 181.1 ± 0.1426
220
210
200
190
180
170
160

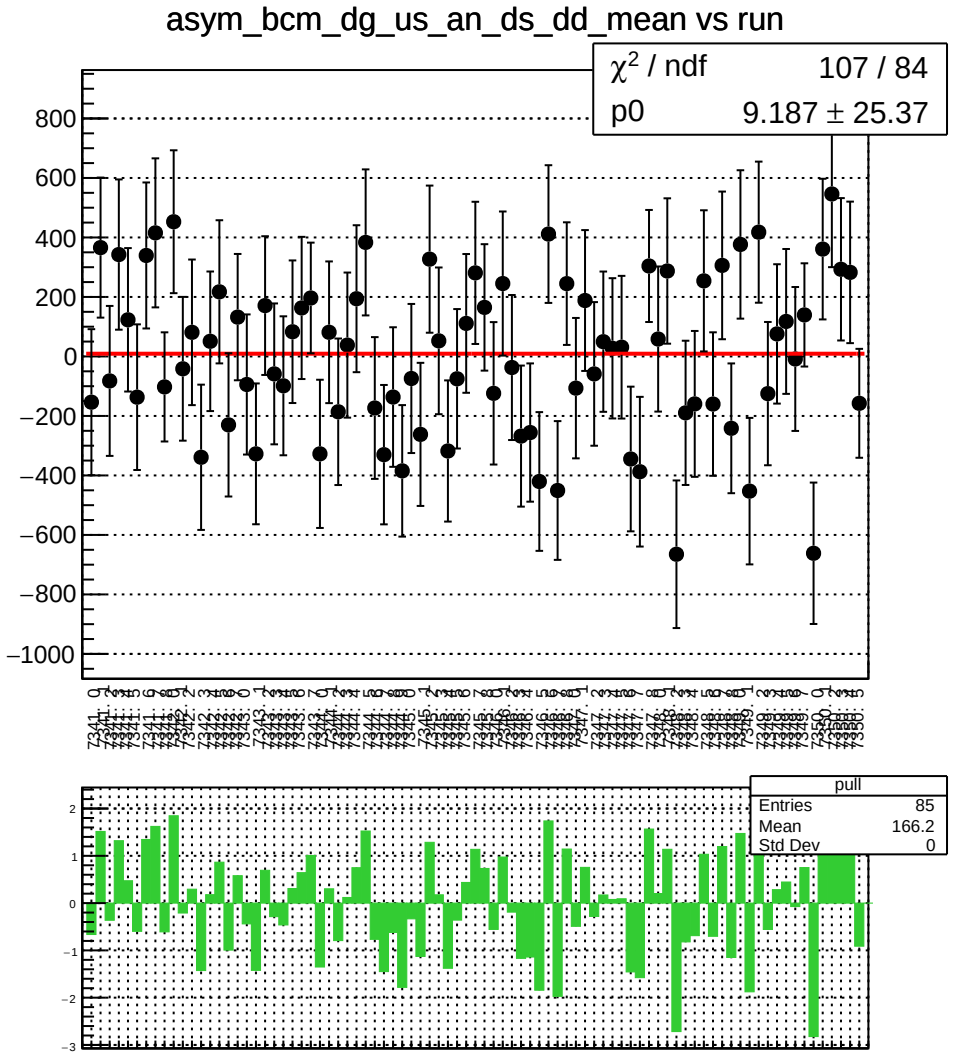

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 84 / 84
p0 41.05 ± 20.43
pull
Entries 85
Mean 312.4
Std Dev 0
pull1D
Entries 85
Mean −0.01019
Std Dev 0.9941

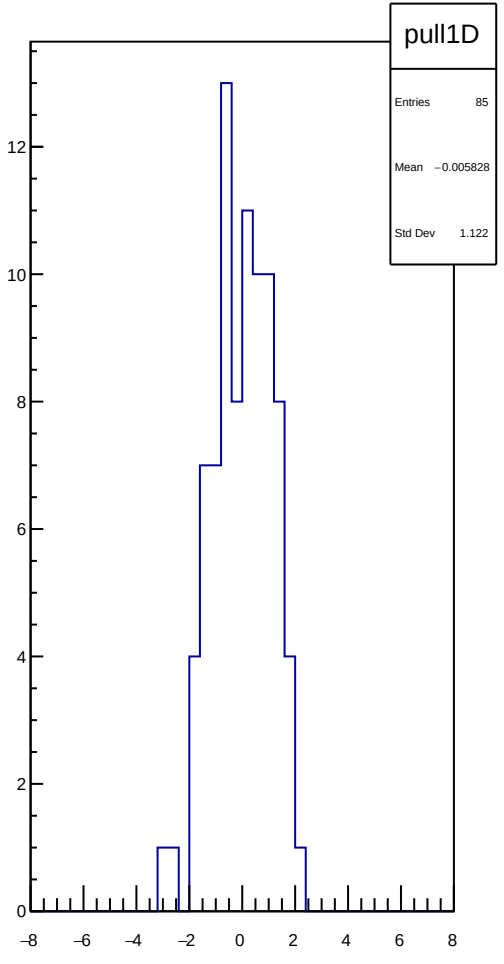

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2450 / 84
p0 18.35 ± 0.01444
20
19.5
19
18.5
18
17.5
17

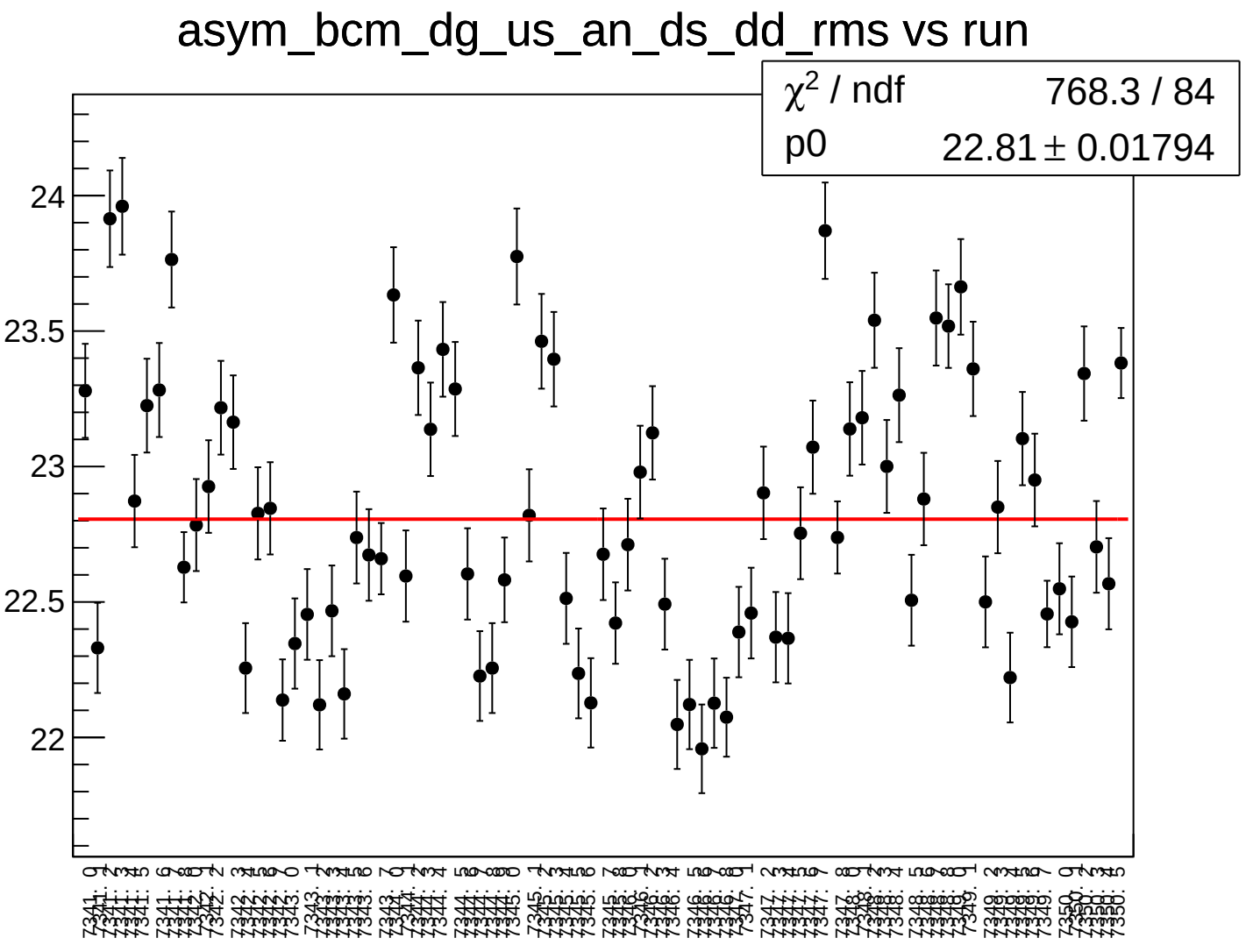

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 19.68 / 84
p0 19.11 ± 199.7
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −247.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

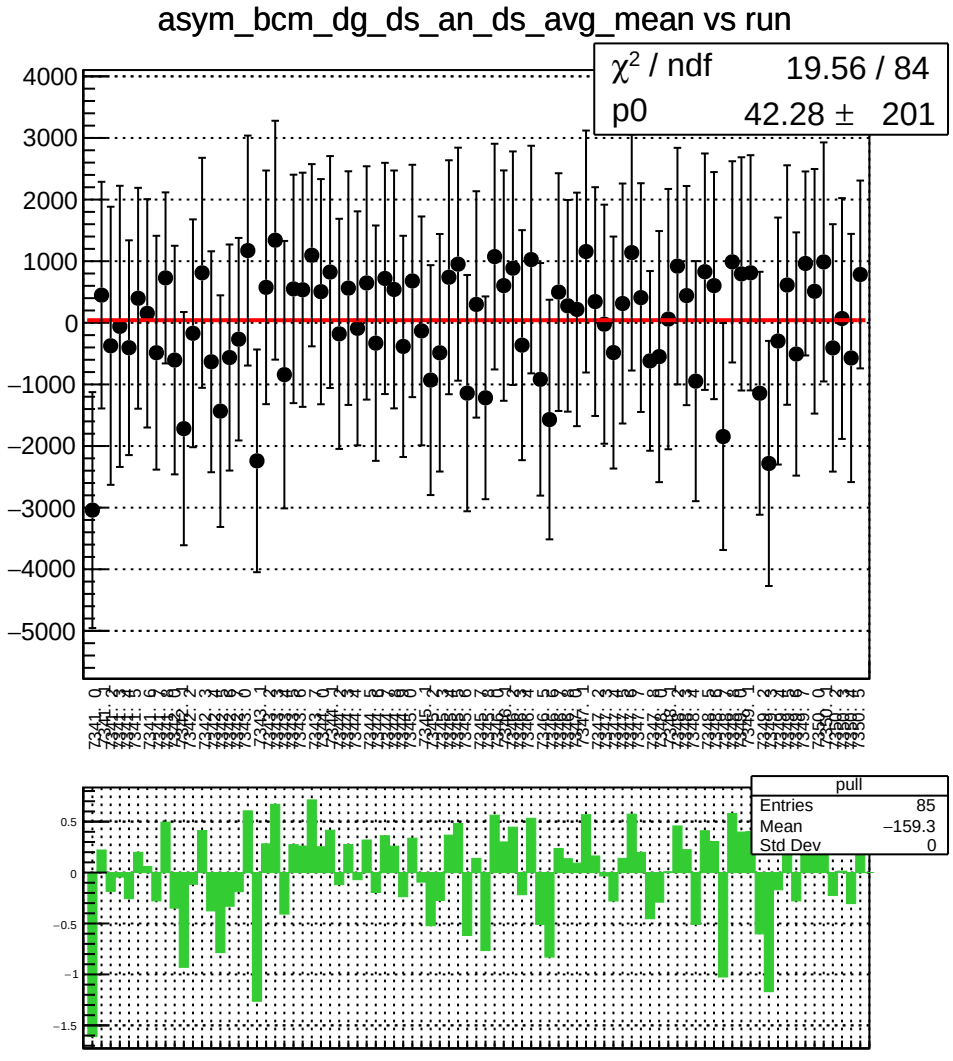

pull1D
Entries 85
Mean −0.006312
Std Dev 0.4811
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

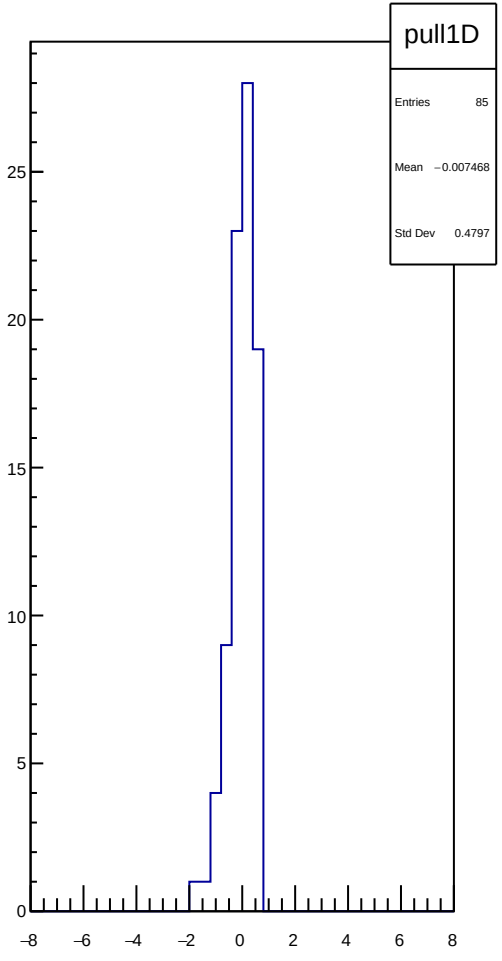

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3336 / 84
p0 179.3 ± 0.1412
210
200
190
180
170
160

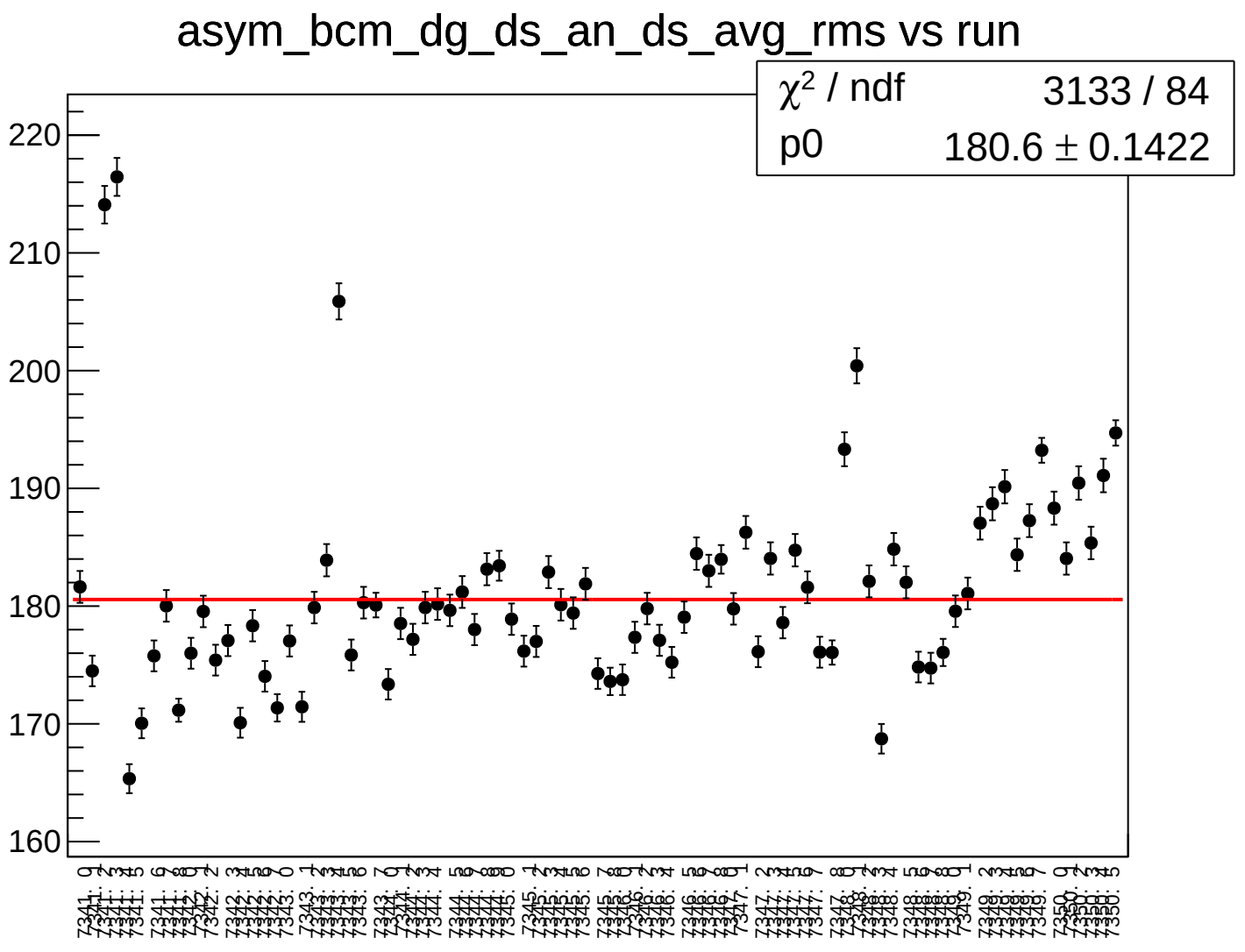

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 107 / 84
p0 9.187 ± 25.37
pull
Entries 85
Mean 166.2
Std Dev 0

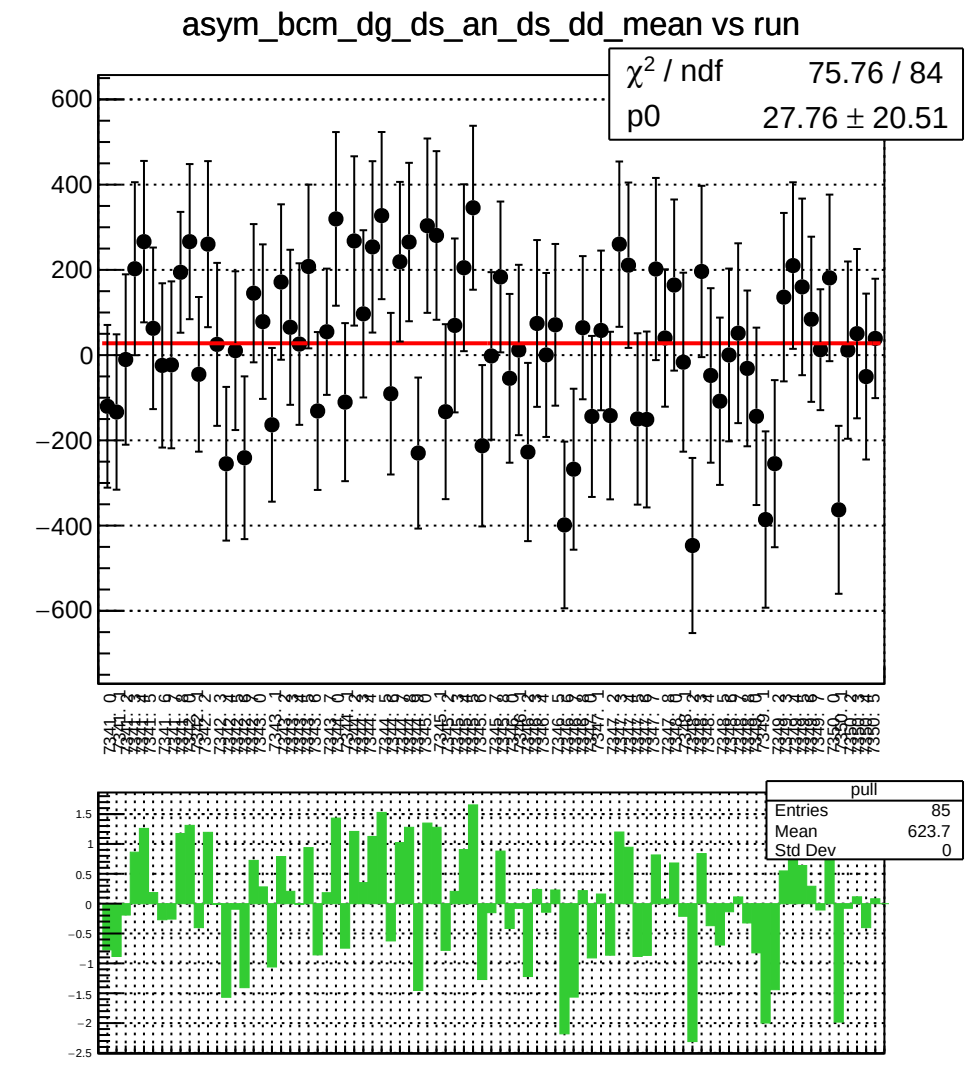

pull1D
Entries 85
Mean −0.005828
Std Dev 1.122

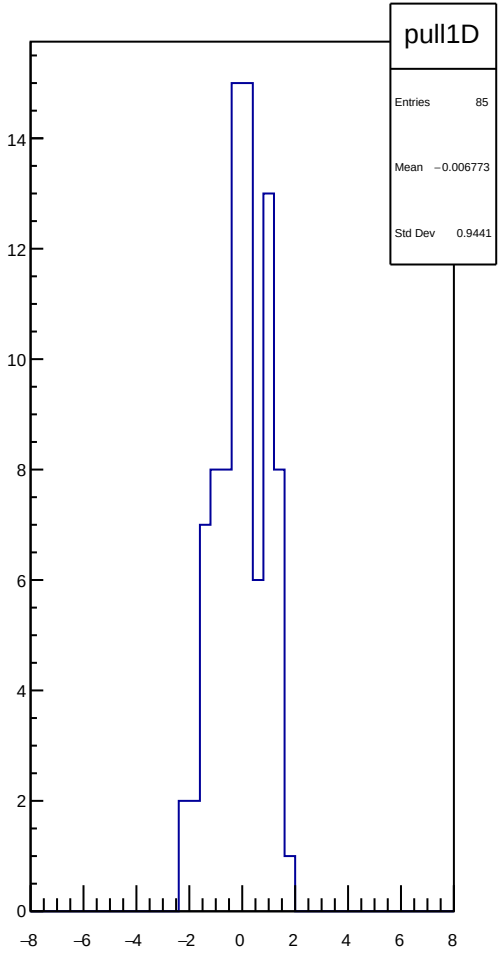

asym_bcm_dg_us_an_ds_dd_rms vs run
χ^2 / ndf 768.3 / 84
p0 22.81 ± 0.01794
24
23.5
23
22.5
22

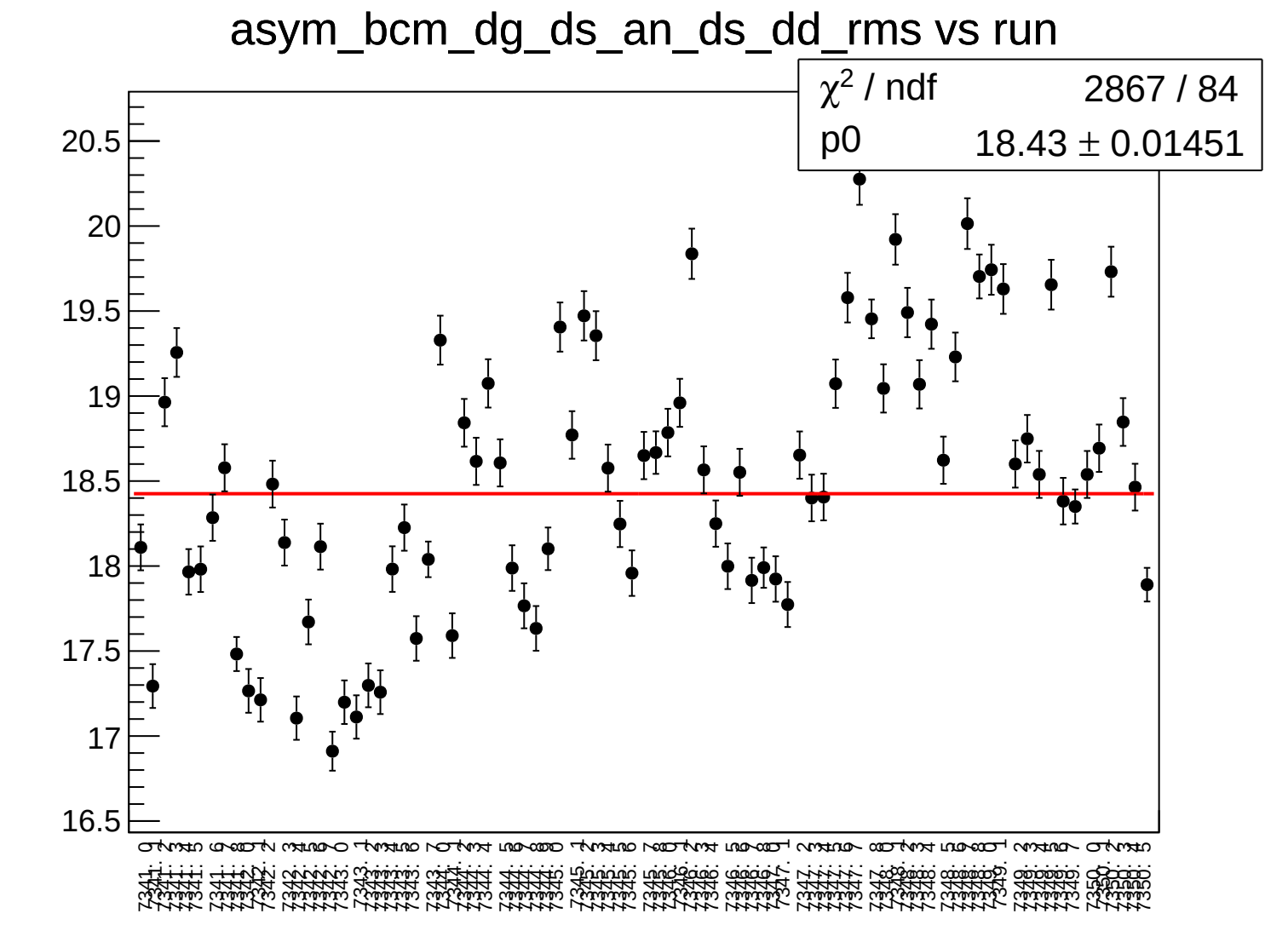

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 19.56 / 84
p0 42.28 ± 201
pull
Entries 85
Mean −159.3
Std Dev 0

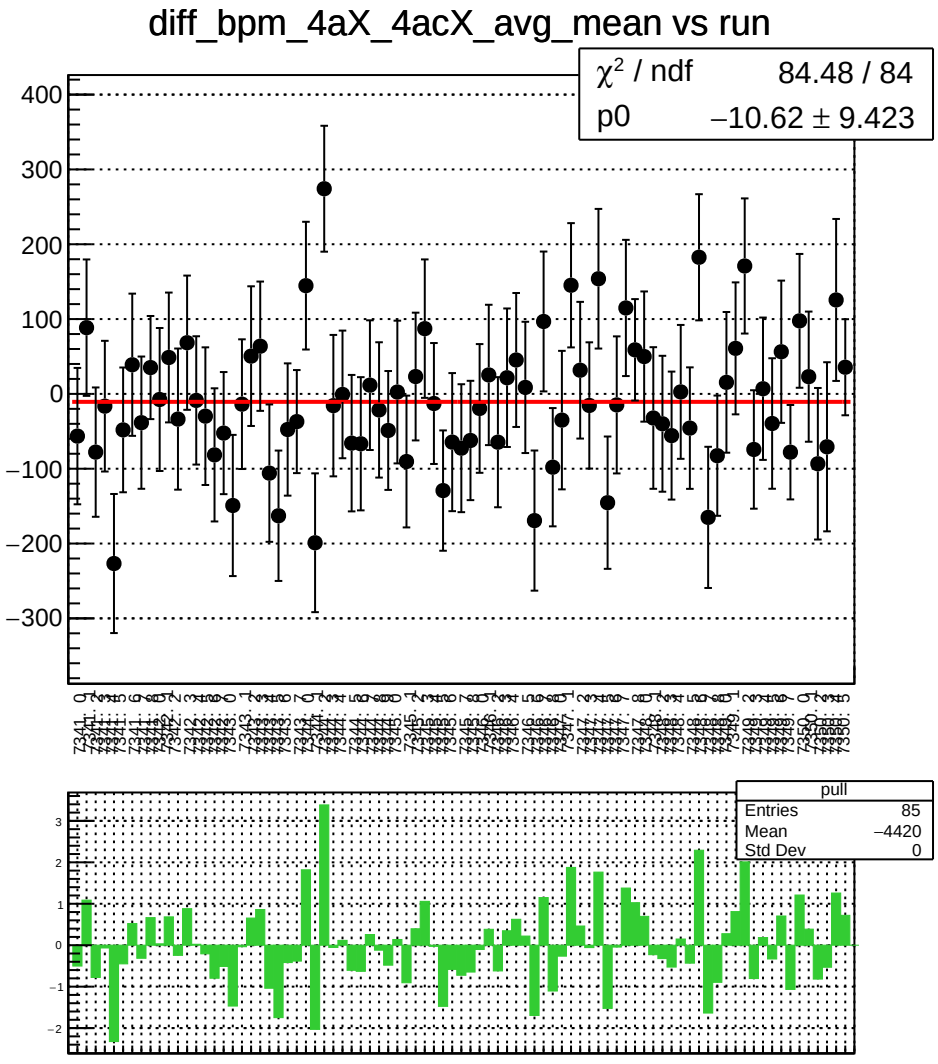

pull1D
Entries 85
Mean −0.007468
Std Dev 0.4797

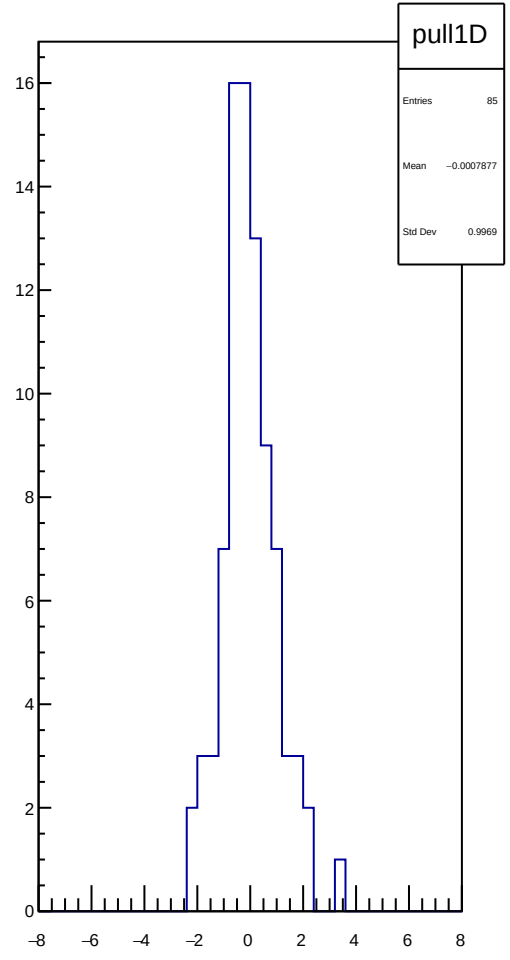

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 3133 / 84
p0 180.6 ± 0.1422
220
210
200
190
180
170
160

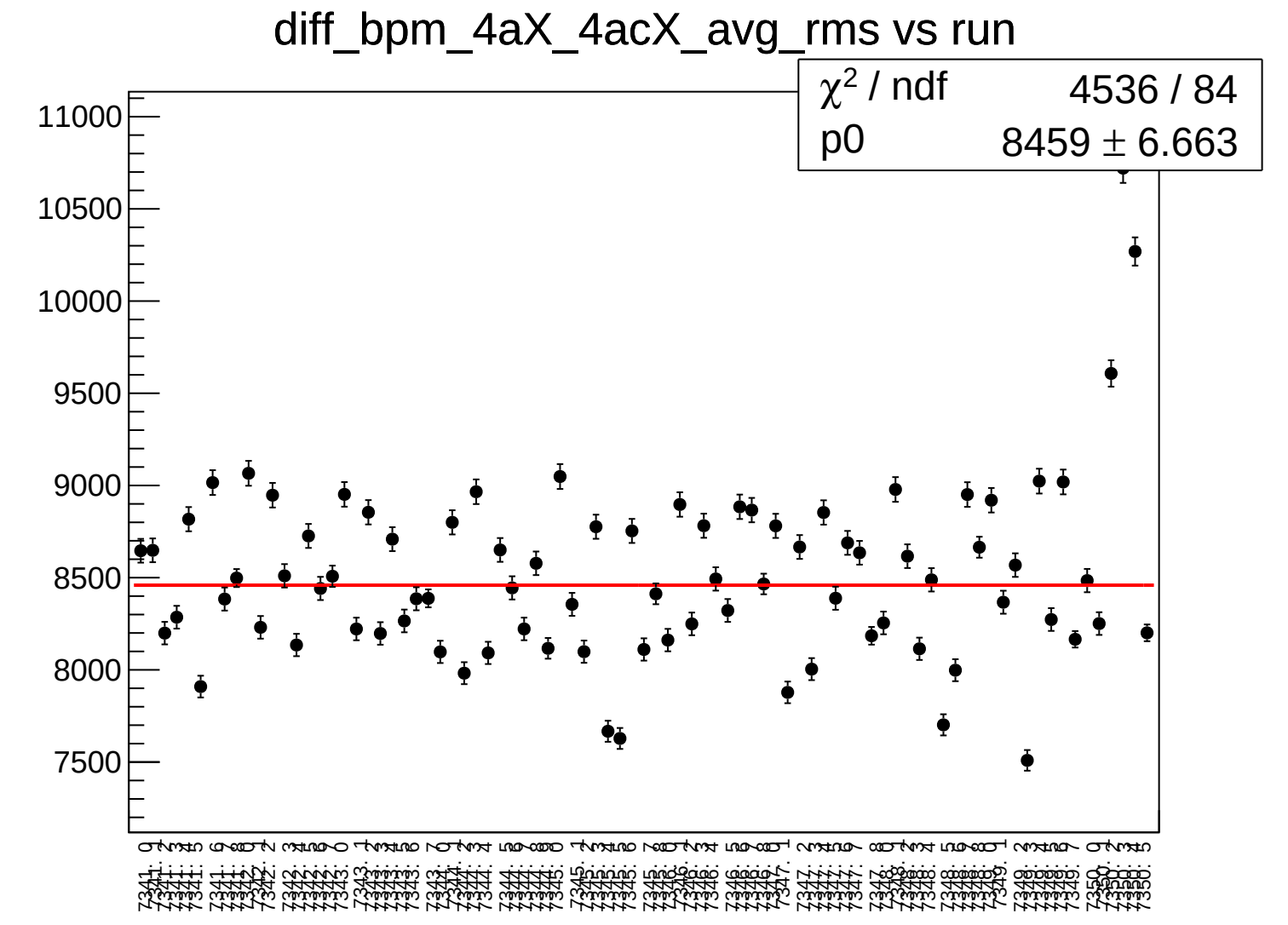

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 75.76 / 84
p0 27.76 ± 20.51
pull
Entries 85
Mean 623.7
Std Dev 0

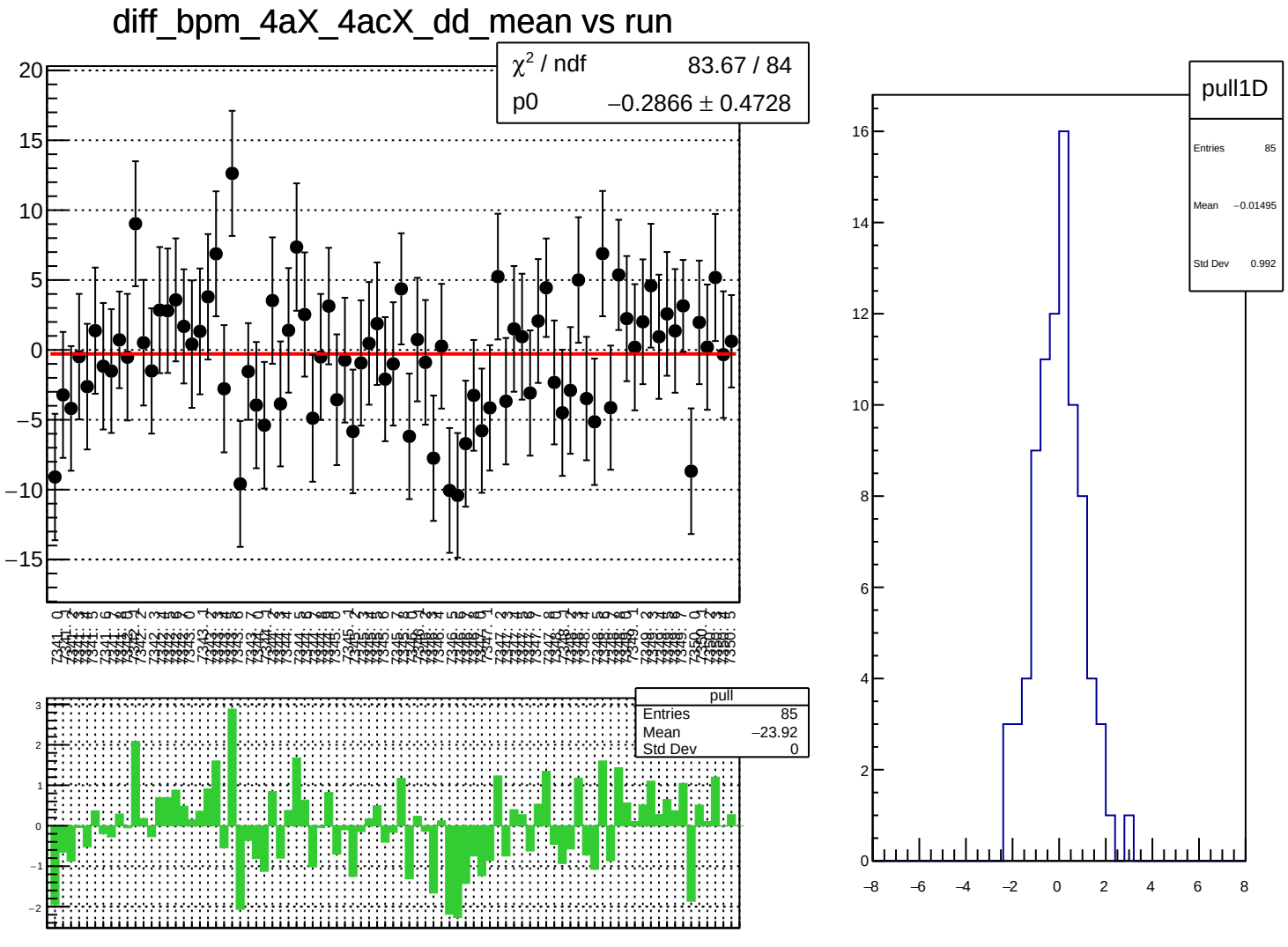

pull1D
Entries 85
Mean −0.006773
Std Dev 0.9441

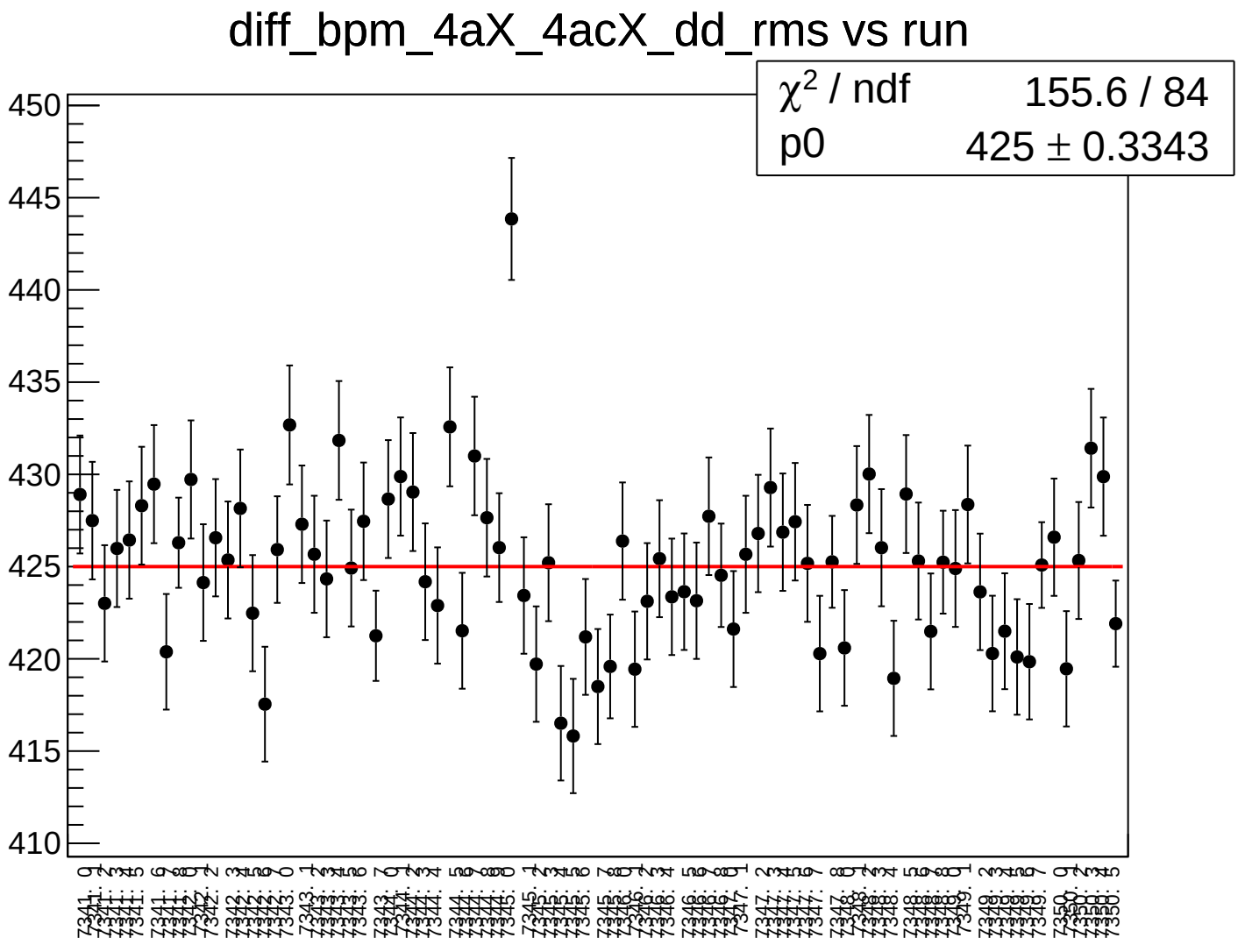

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2867 / 84
p0 18.43 ± 0.01451
20.5
20
19.5
19
18.5
18
17.5
17
16.5

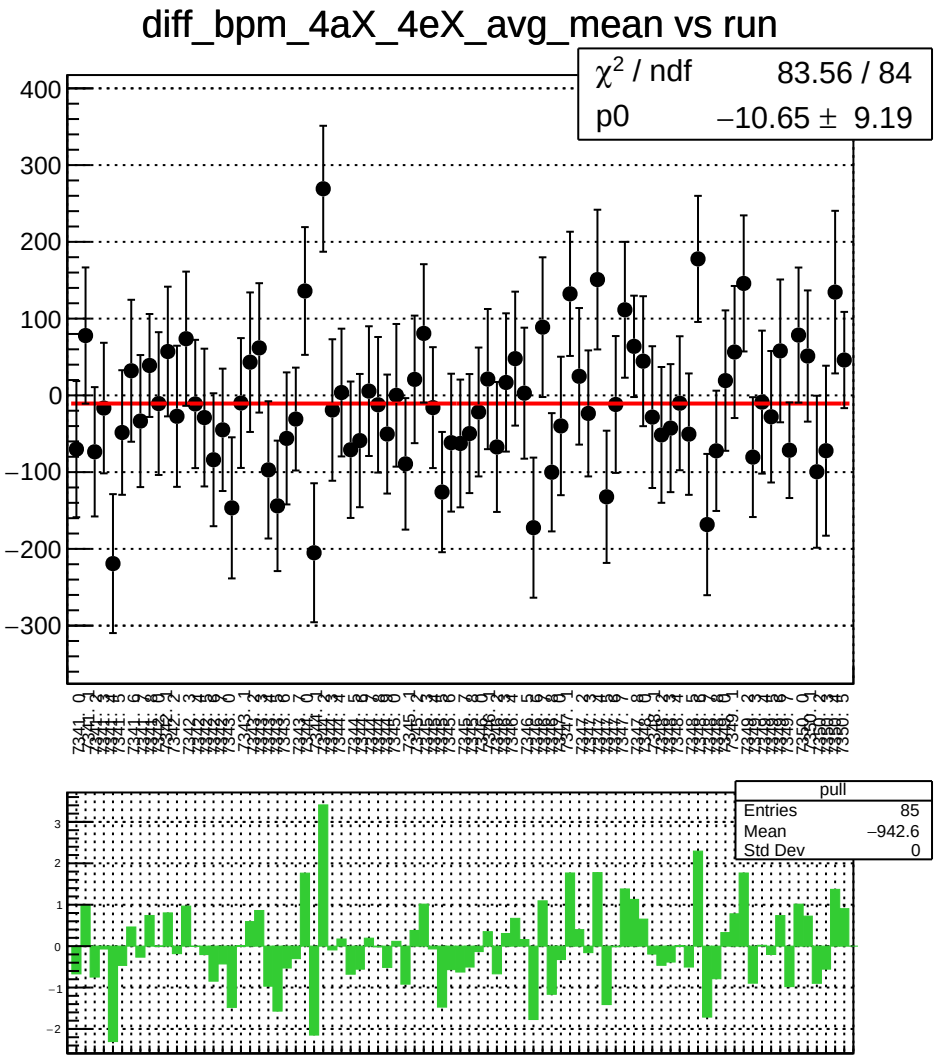

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 84.48 / 84
p0 −10.62 ± 9.423
pull
Entries 85
Mean −4420
Std Dev 0

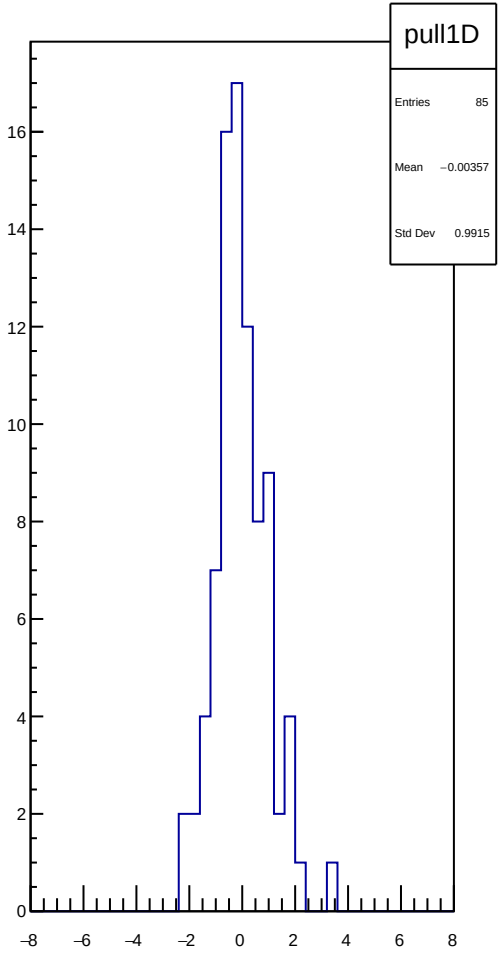

pull1D
Entries 85
Mean −0.0007877
Std Dev 0.9969

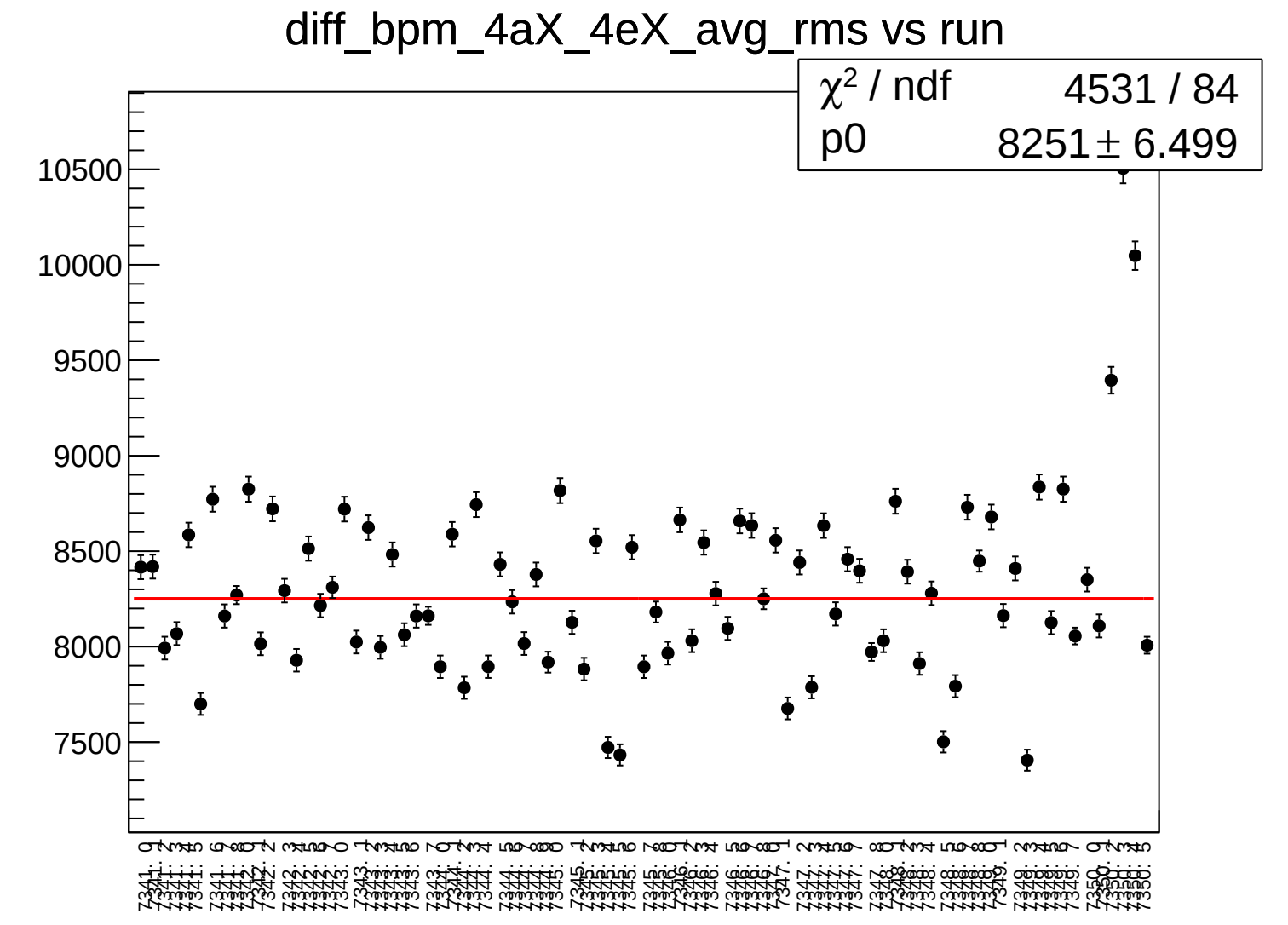

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 4536 / 84
p0 8459 ± 6.663
11000
10500
10000
9500
9000
8500
8000
7500

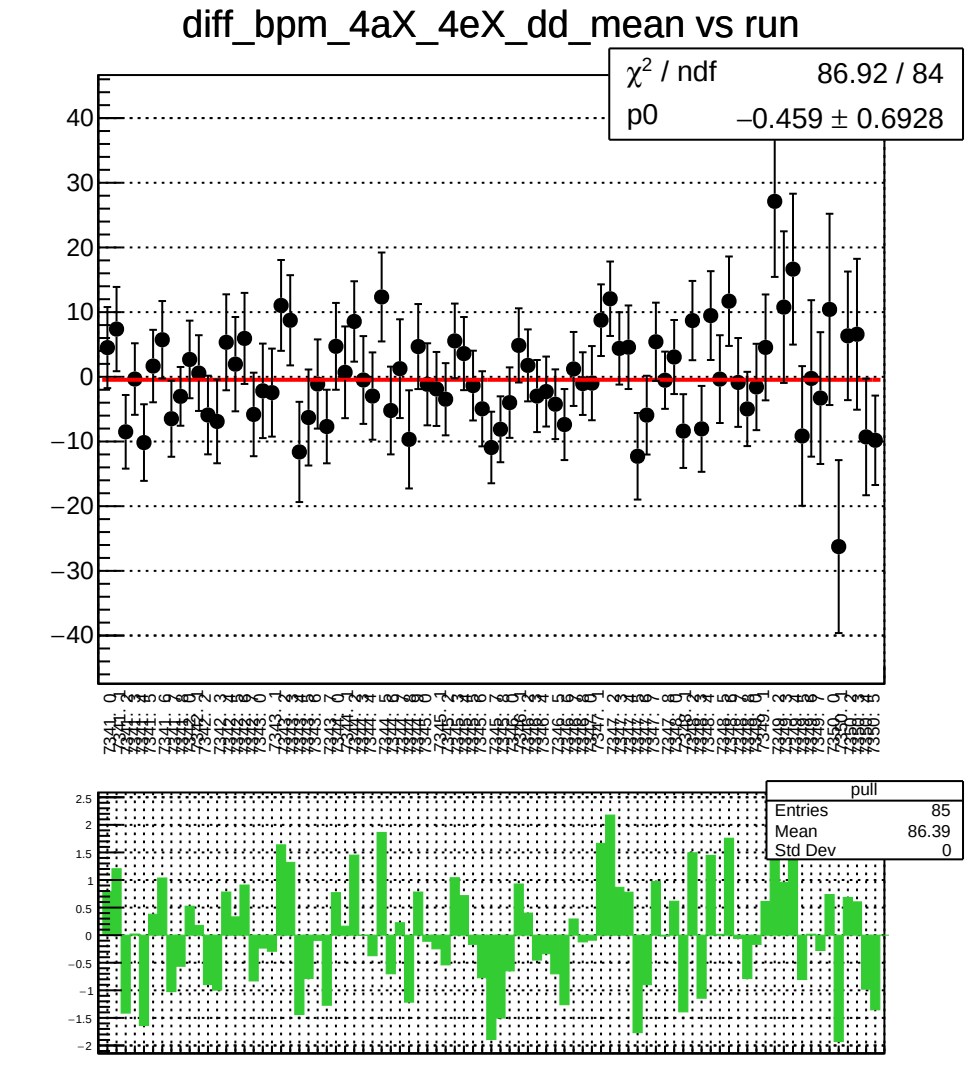

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 83.67 / 84
p0 −0.2866 ± 0.4728
pull
Entries 85
Mean −23.92
Std Dev 0
pull1D
Entries 85
Mean −0.01495
Std Dev 0.992

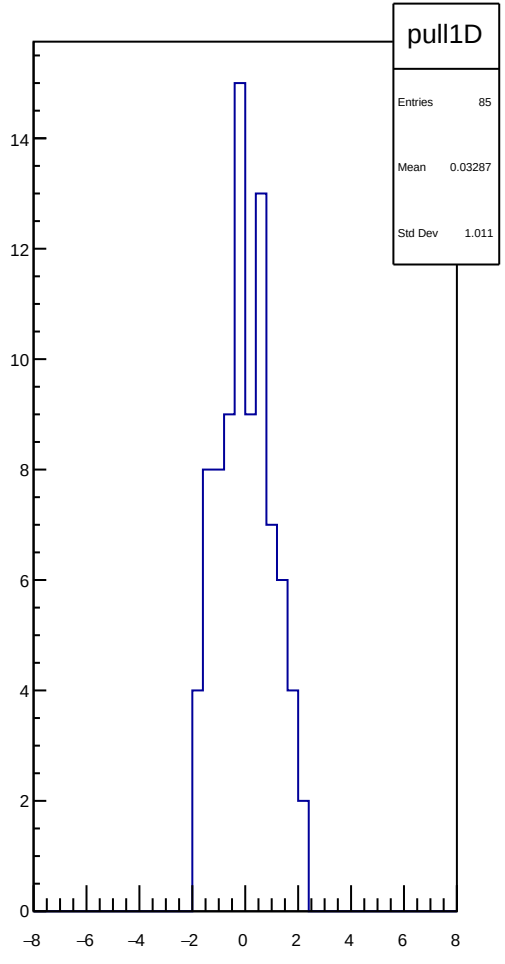

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 155.6 / 84
p0 425 ± 0.3343
450
445
440
435
430
425
420
415
410

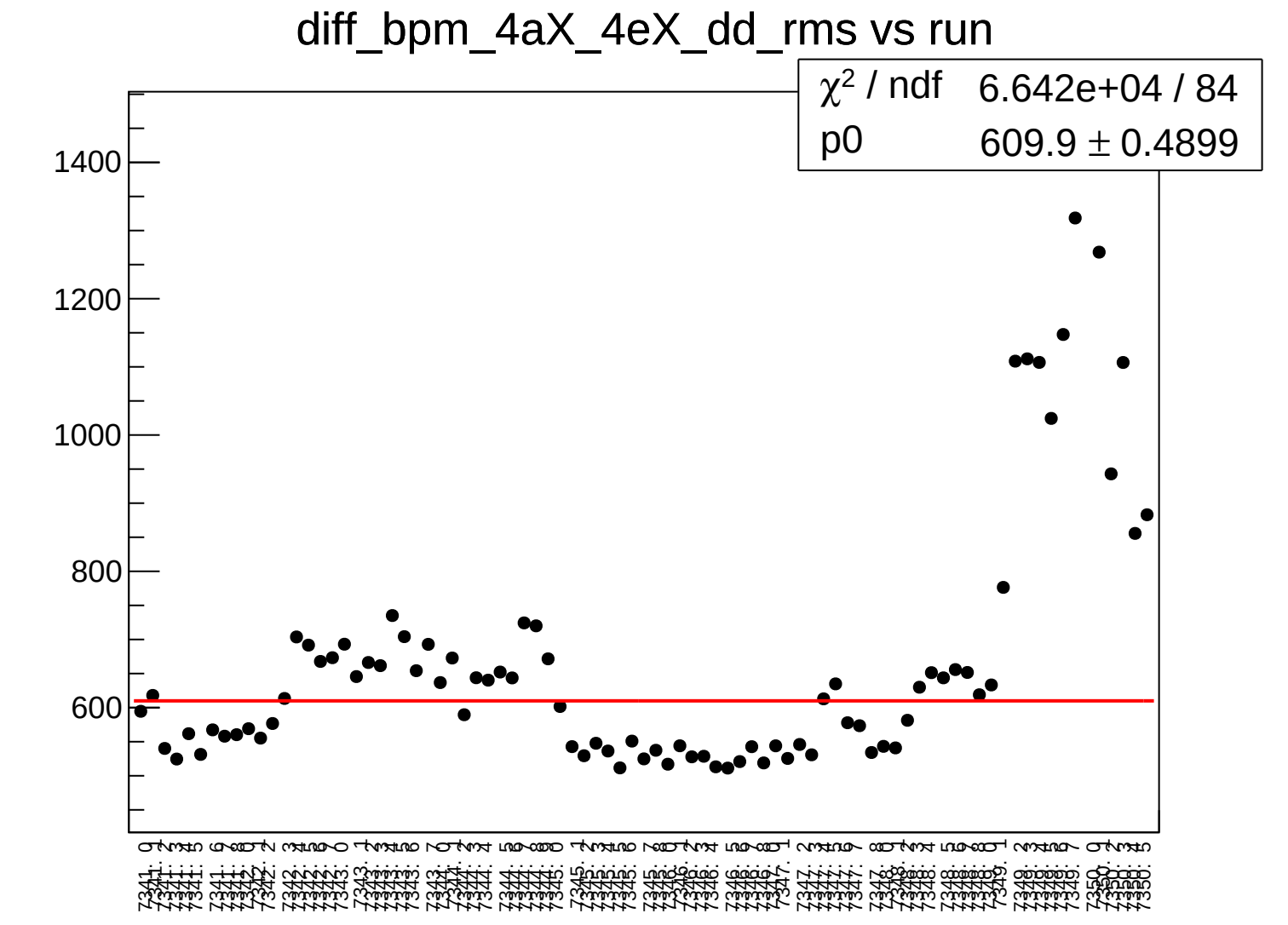

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 83.56 / 84
p0 −10.65 ± 9.19
pull
Entries 85
Mean −942.6
Std Dev 0

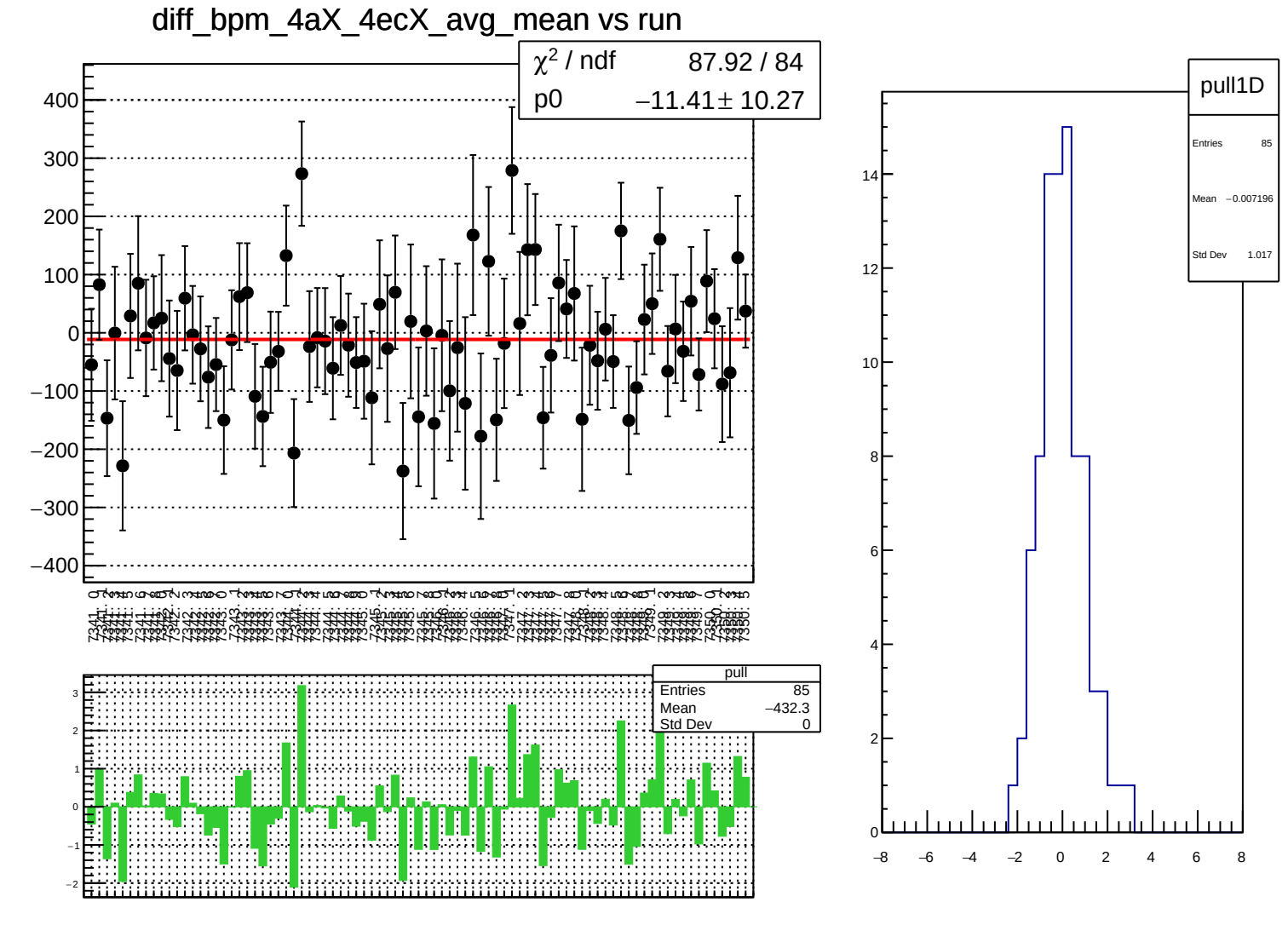

pull1D
Entries 85
Mean −0.00357
Std Dev 0.9915

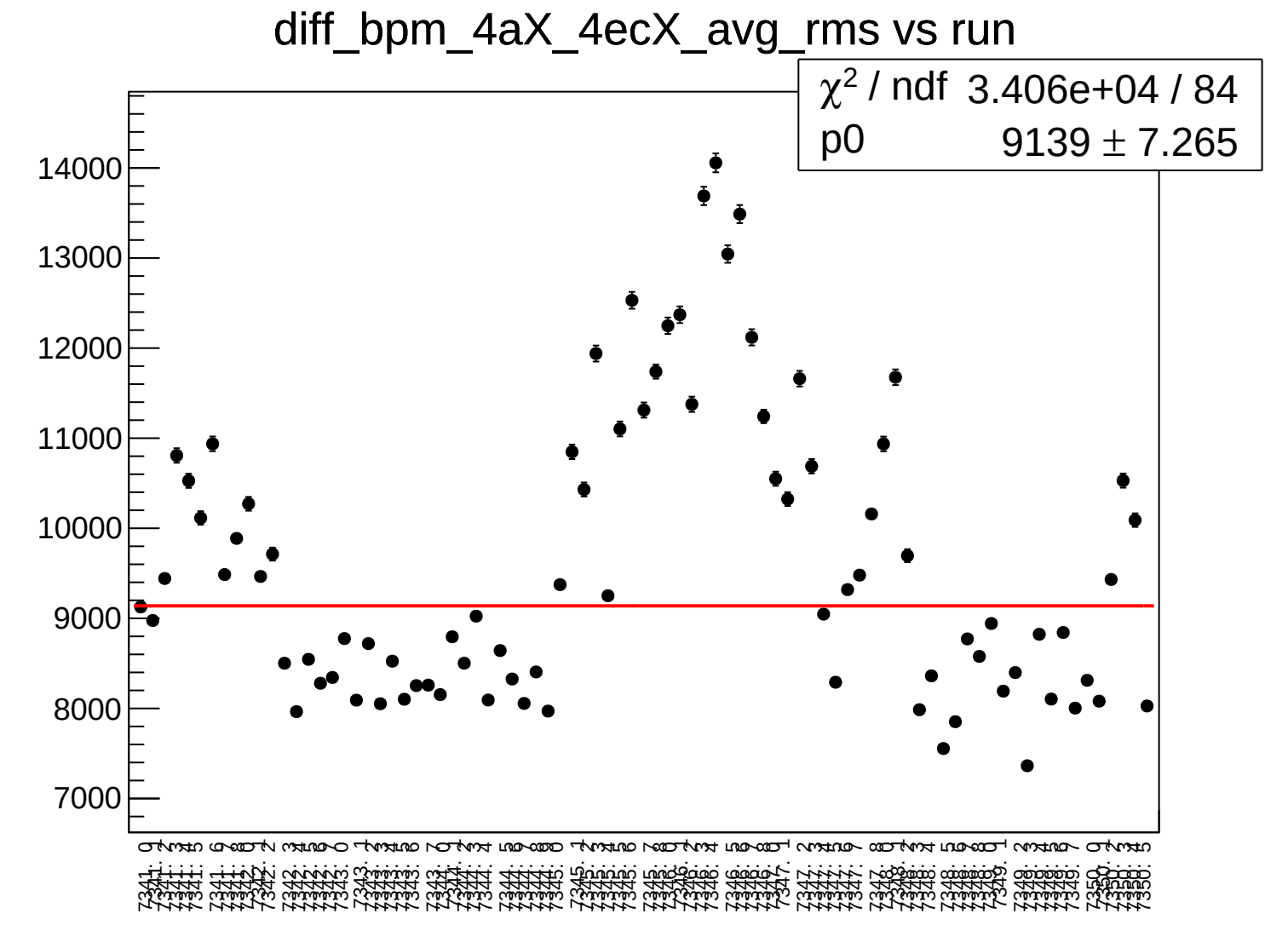

diff_bpm_4aX_4eX_avg_rms vs run
χ^2 / ndf 4531 / 84
p0 8251 ± 6.499
10500
10000
9500
9000
8500
8000
7500

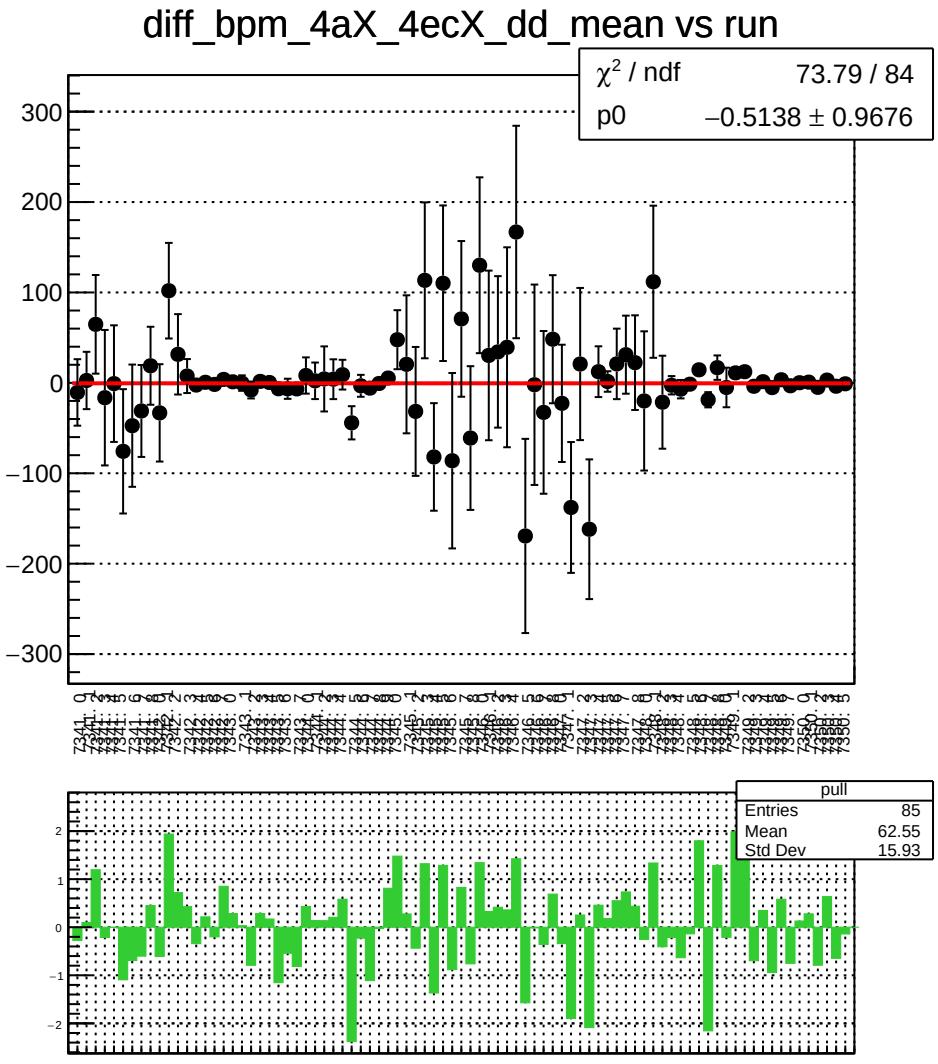

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 86.92 / 84
p0 −0.459 ± 0.6928
pull
Entries 85
Mean 86.39
Std Dev 0

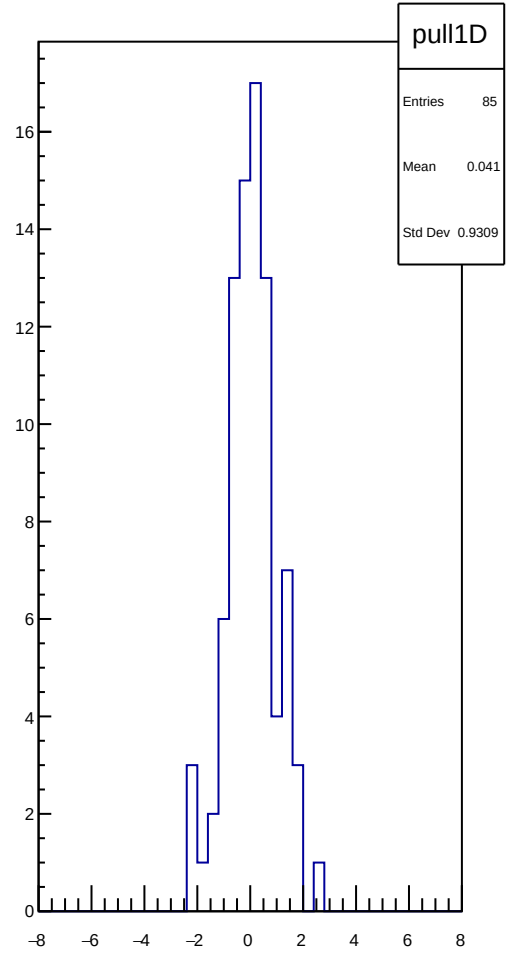

pull1D
Entries 85
Mean 0.03287
Std Dev 1.011

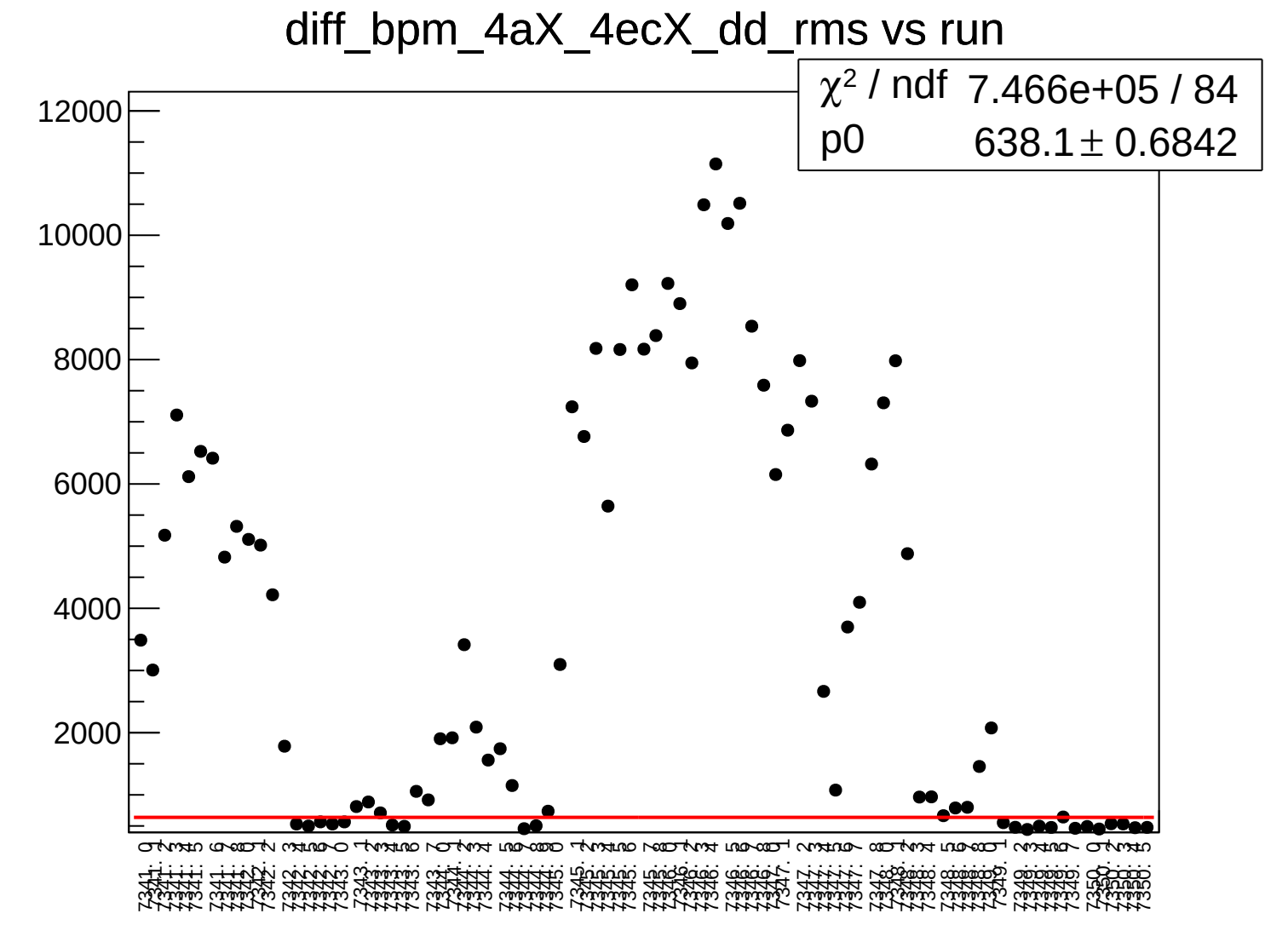

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 6.642e+04 / 84
p0 609.9 ± 0.4899
1400
1200
1000
800
600

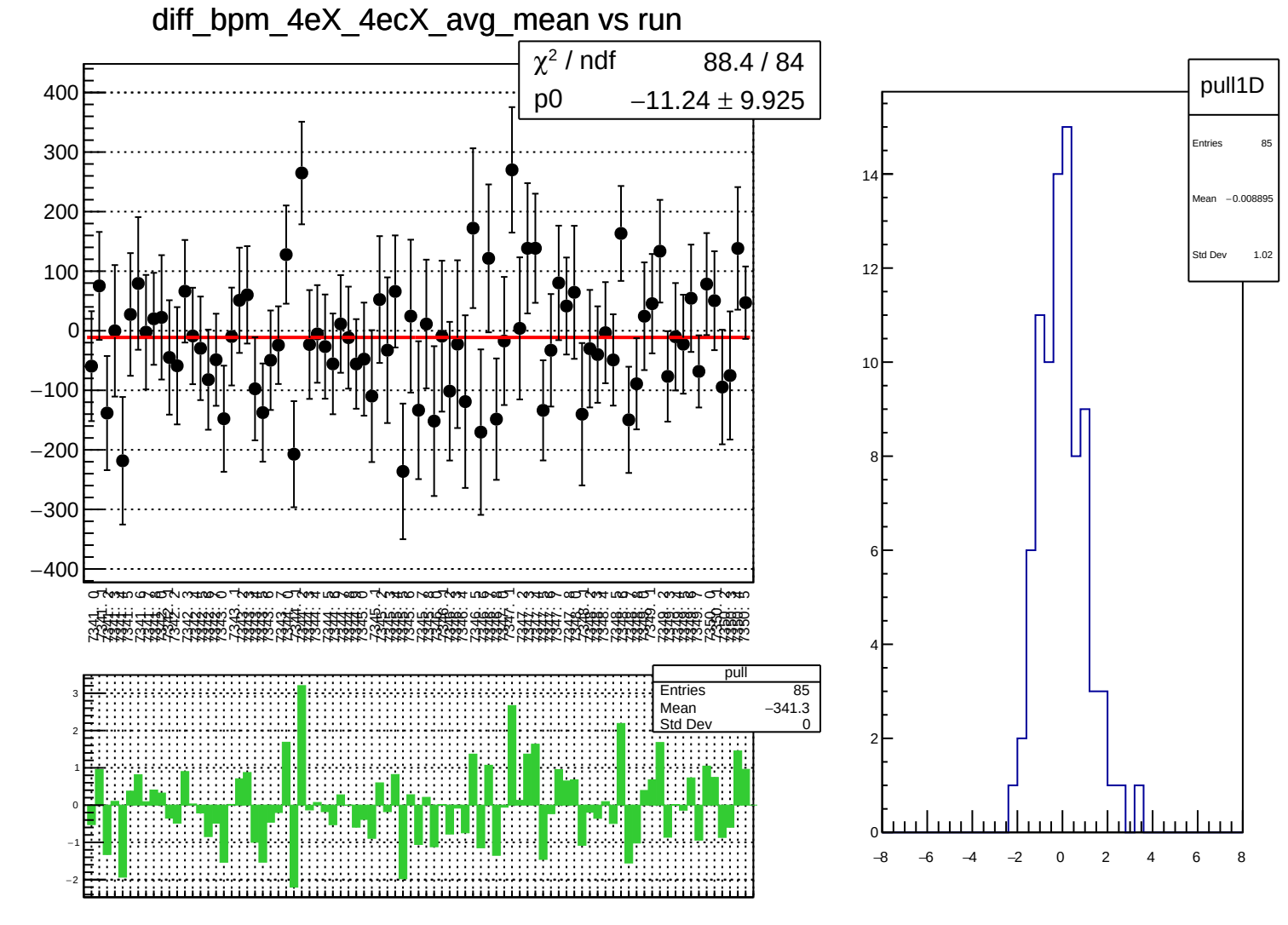

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 87.92 / 84
p0 −11.41± 10.27
pull
Entries 85
Mean −432.3
Std Dev 0
pull1D
Entries 85
Mean −0.007196
Std Dev 1.017

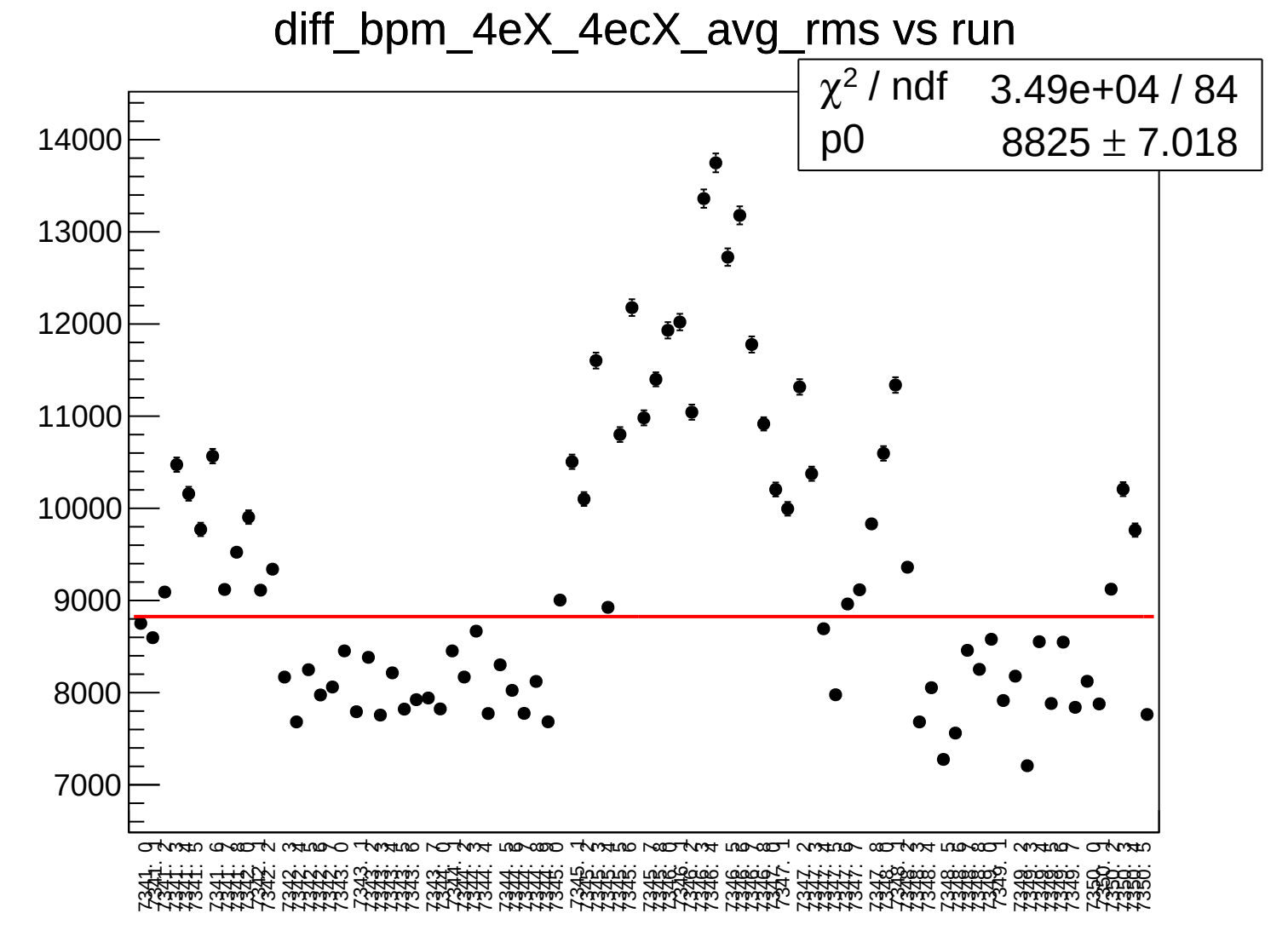

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 3.406e+04 / 84
p0 9139 ± 7.265
14000
13000
12000
11000
10000
9000
8000
7000

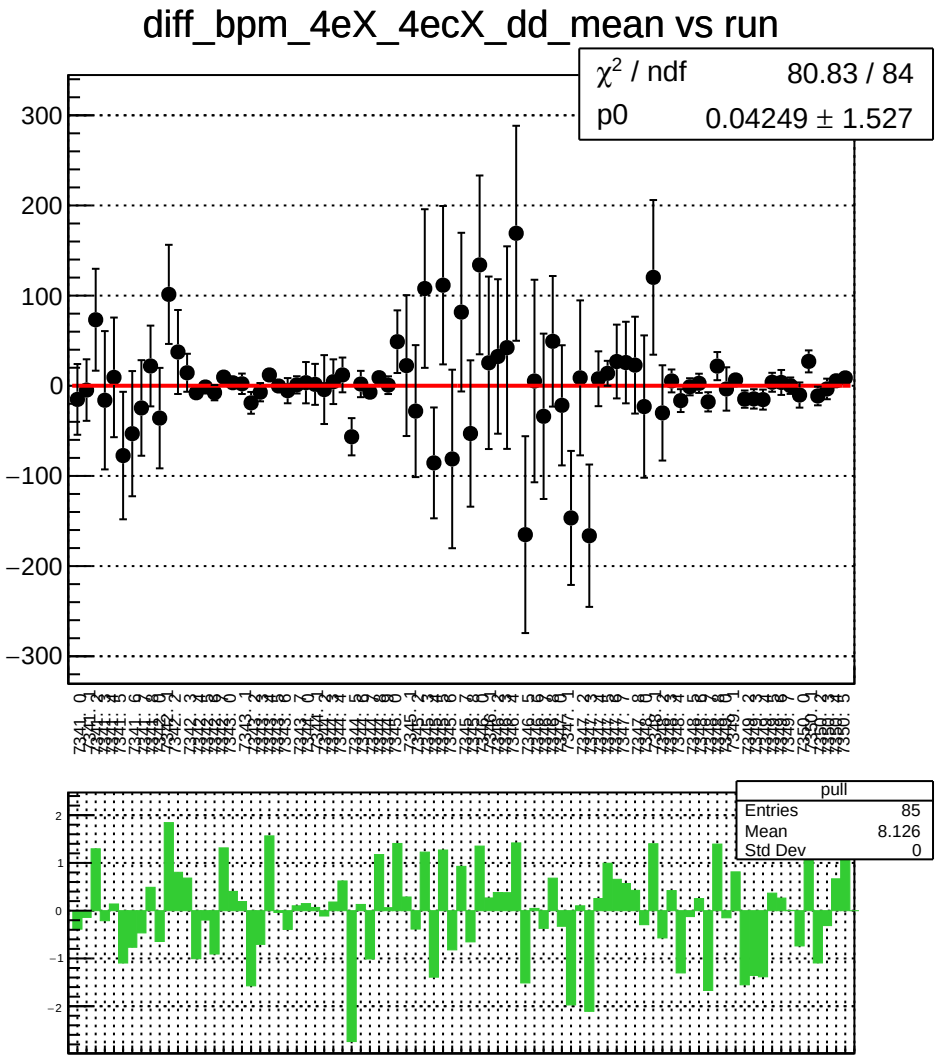

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 73.79 / 84
p0 −0.5138 ± 0.9676
pull
Entries 85
Mean 62.55
Std Dev 15.93

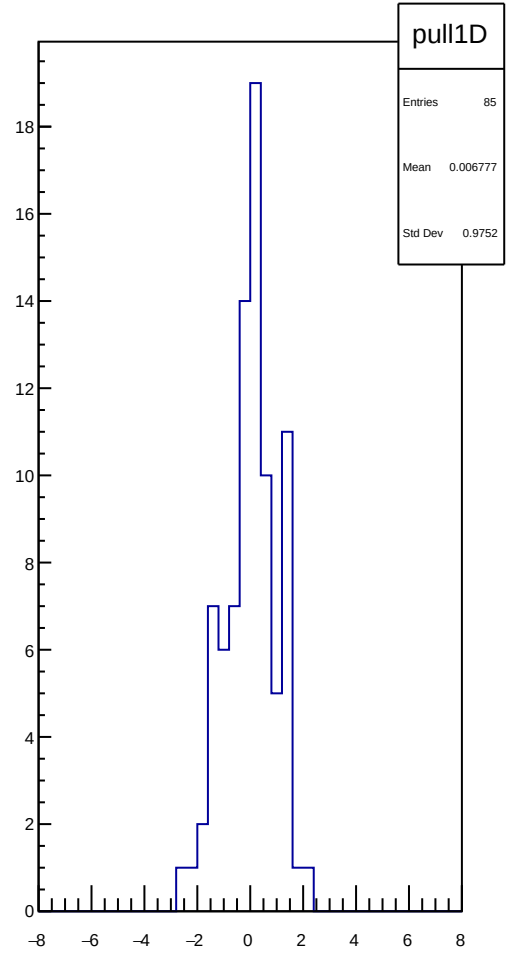

pull1D
Entries 85
Mean 0.041
Std Dev 0.9309

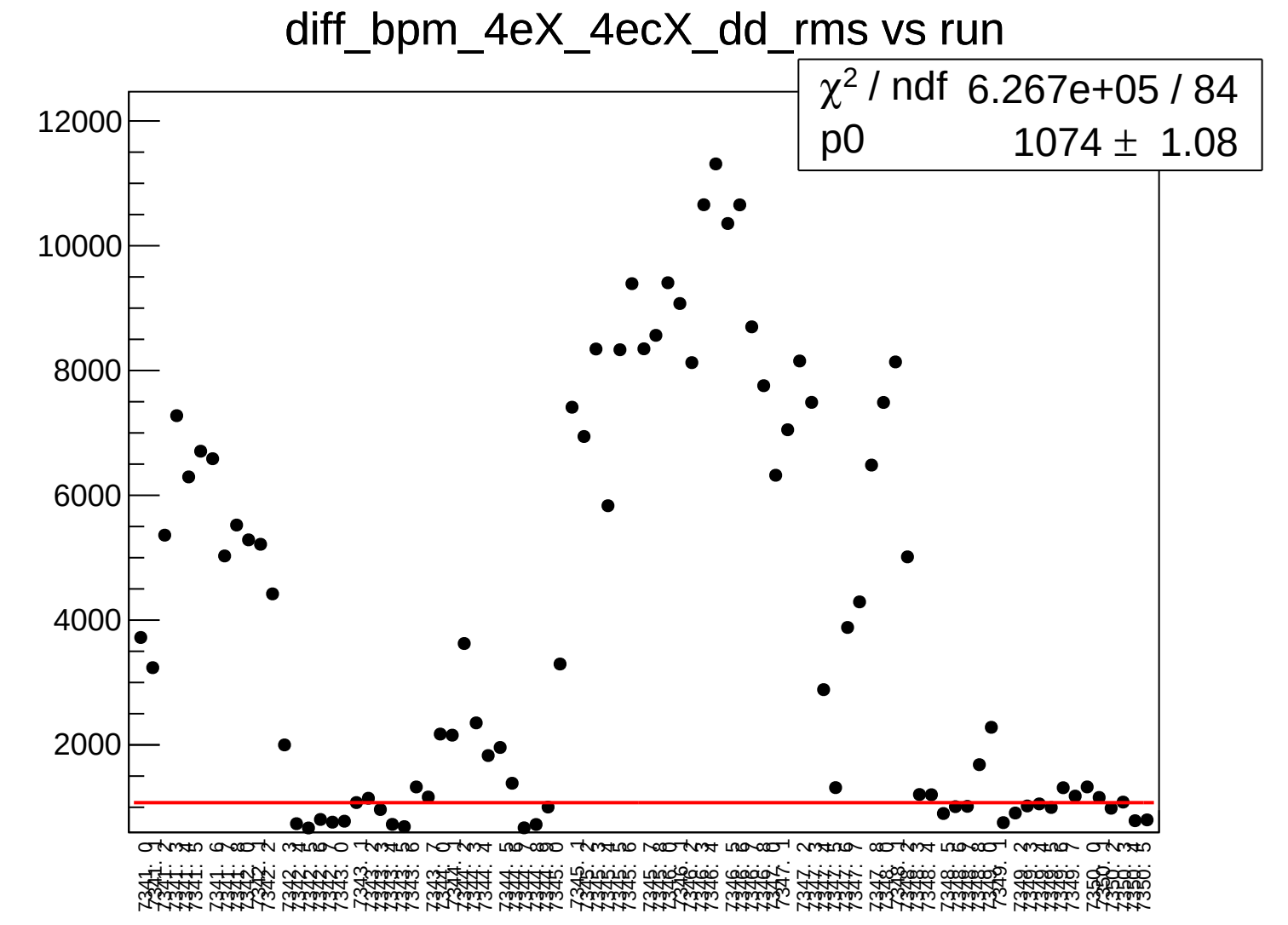

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 7.466e+05 / 84
p0 638.1 ± 0.6842
12000
10000
8000
6000
4000
2000

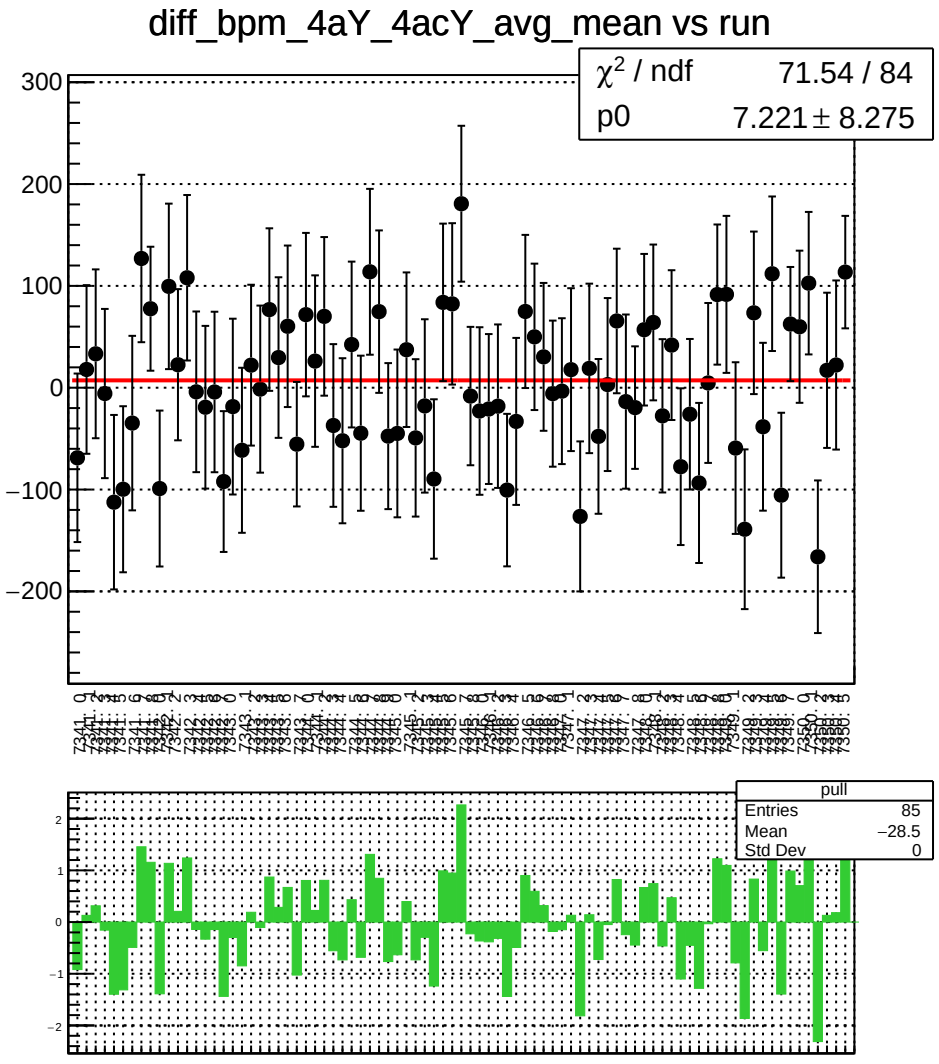

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 88.4 / 84
p0 −11.24 ± 9.925
pull
Entries 85
Mean −341.3
Std Dev 0
pull1D
Entries 85
Mean −0.008895
Std Dev 1.02

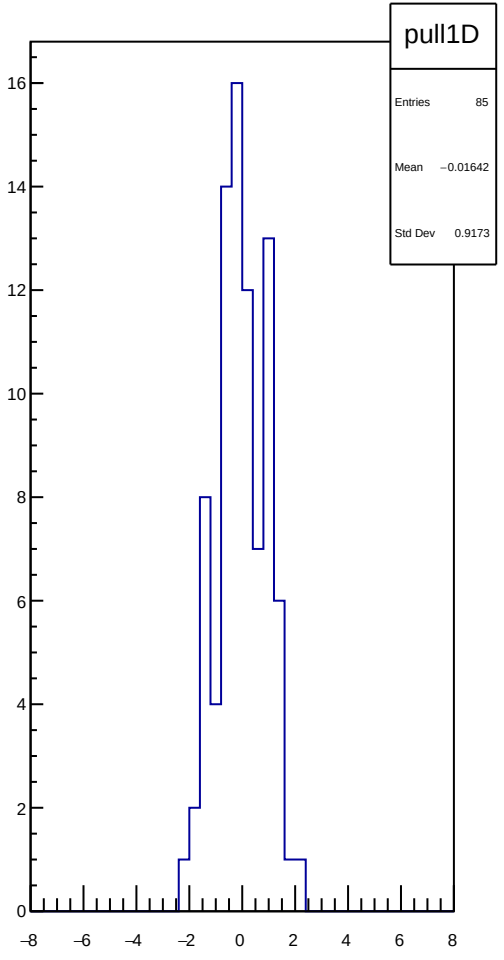

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 3.49e+04 / 84
p0 8825 ± 7.018
14000
13000
12000
11000
10000
9000
8000
7000

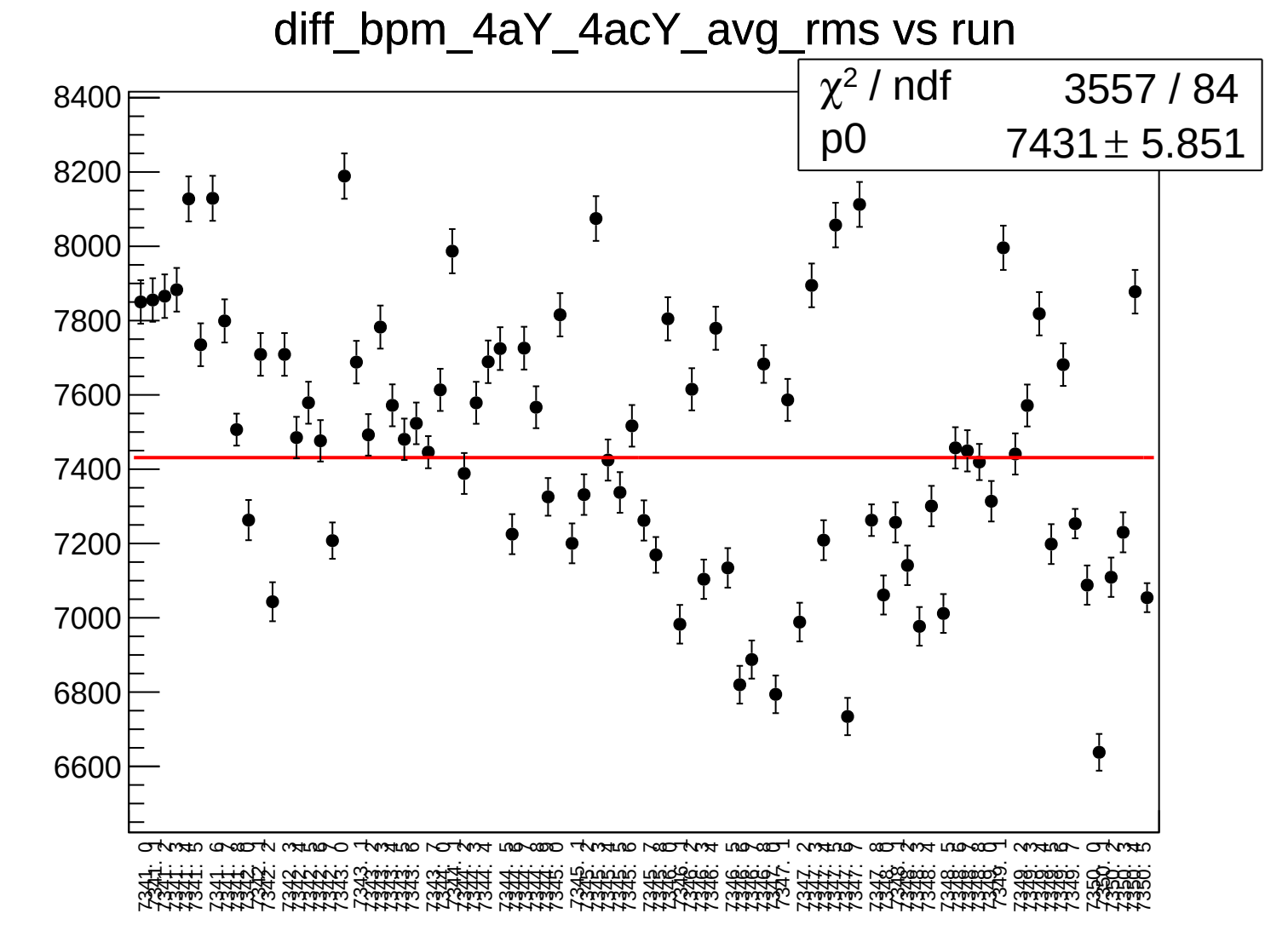

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 80.83 / 84
p0 0.04249 ± 1.527
pull
Entries 85
Mean 8.126
Std Dev 0

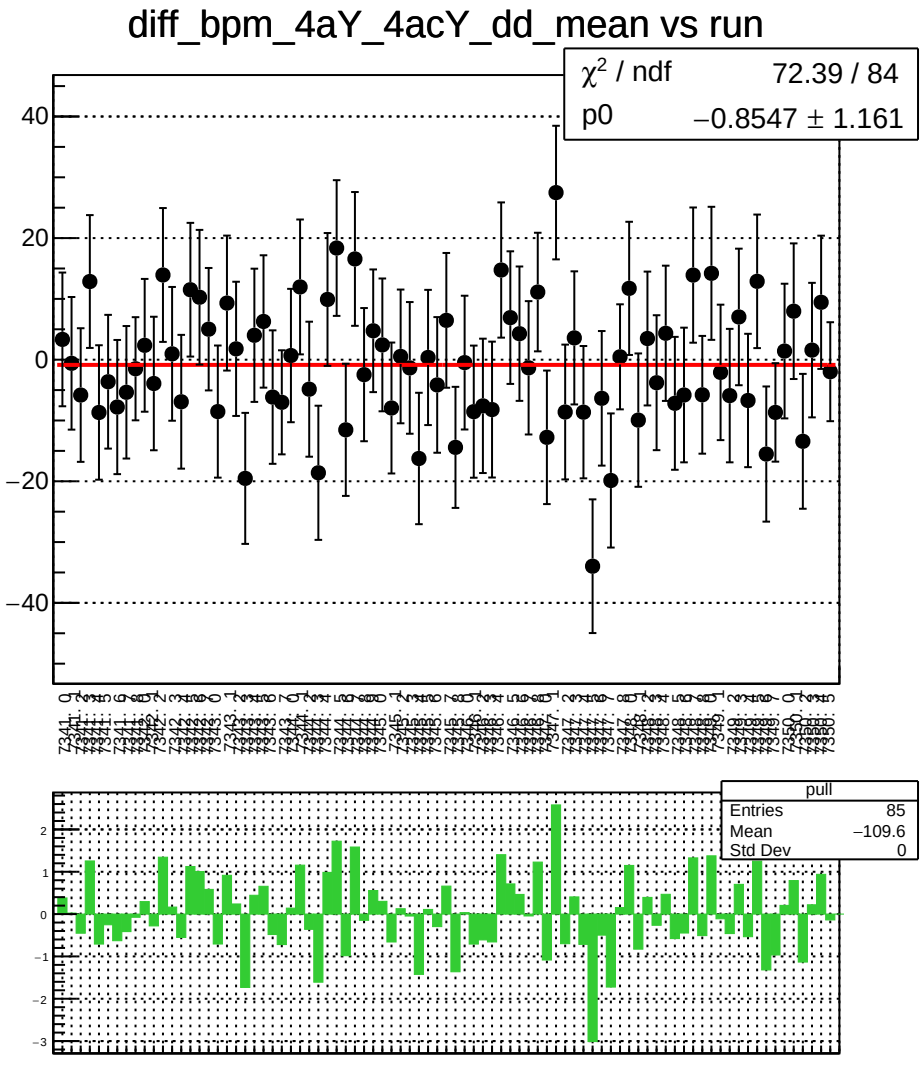

pull1D
Entries 85
Mean 0.006777
Std Dev 0.9752

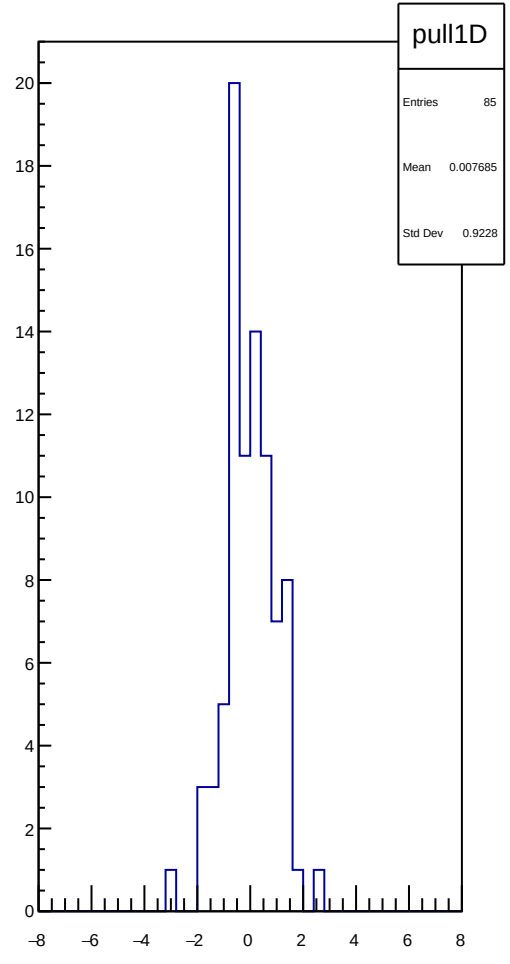

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 6.267e+05 / 84
p0 1074 ± 1.08
12000
10000
8000
6000
4000
2000

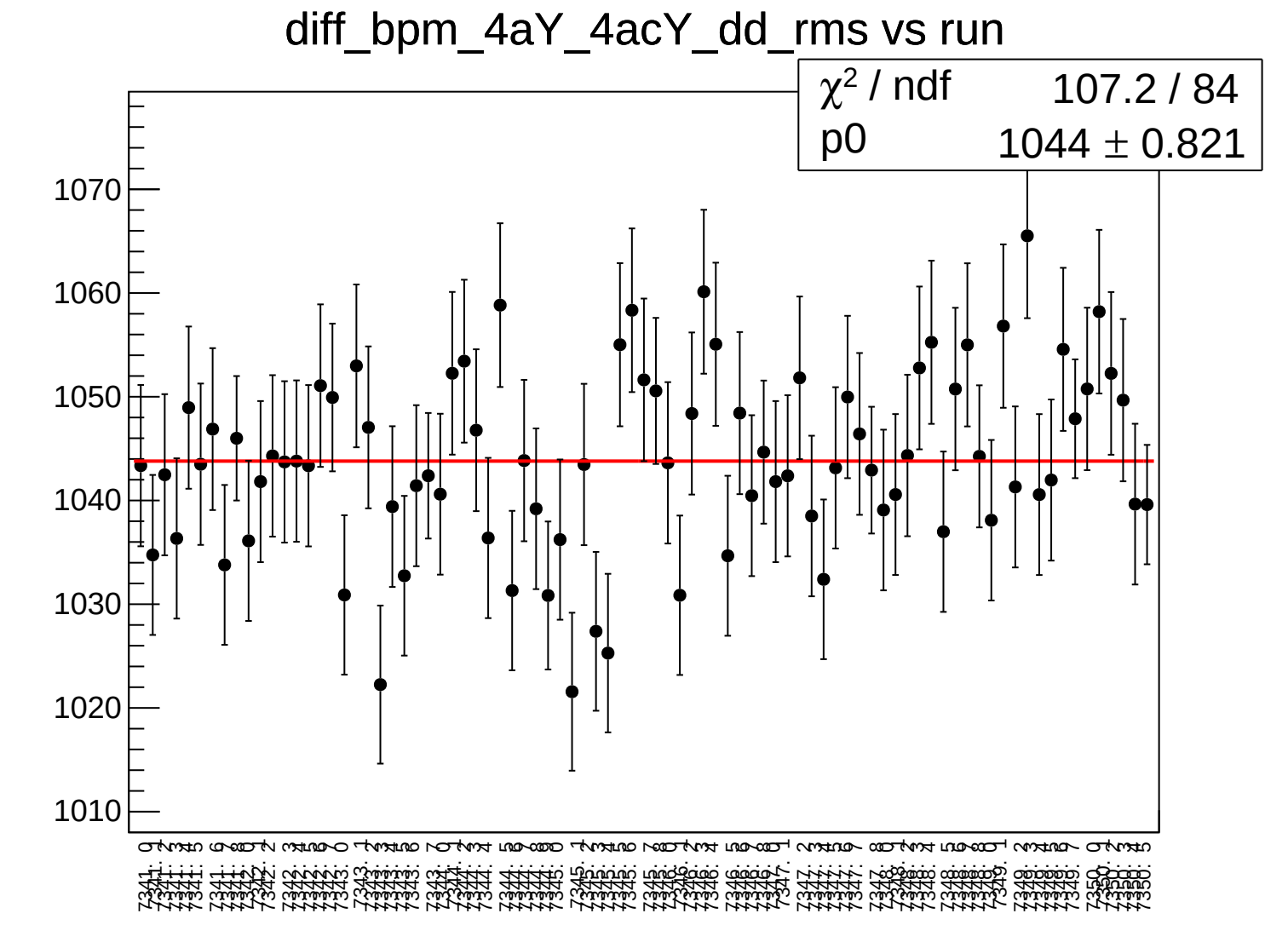

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 71.54 / 84
p0 7.221 ± 8.275
pull
Entries 85
Mean −28.5
Std Dev 0

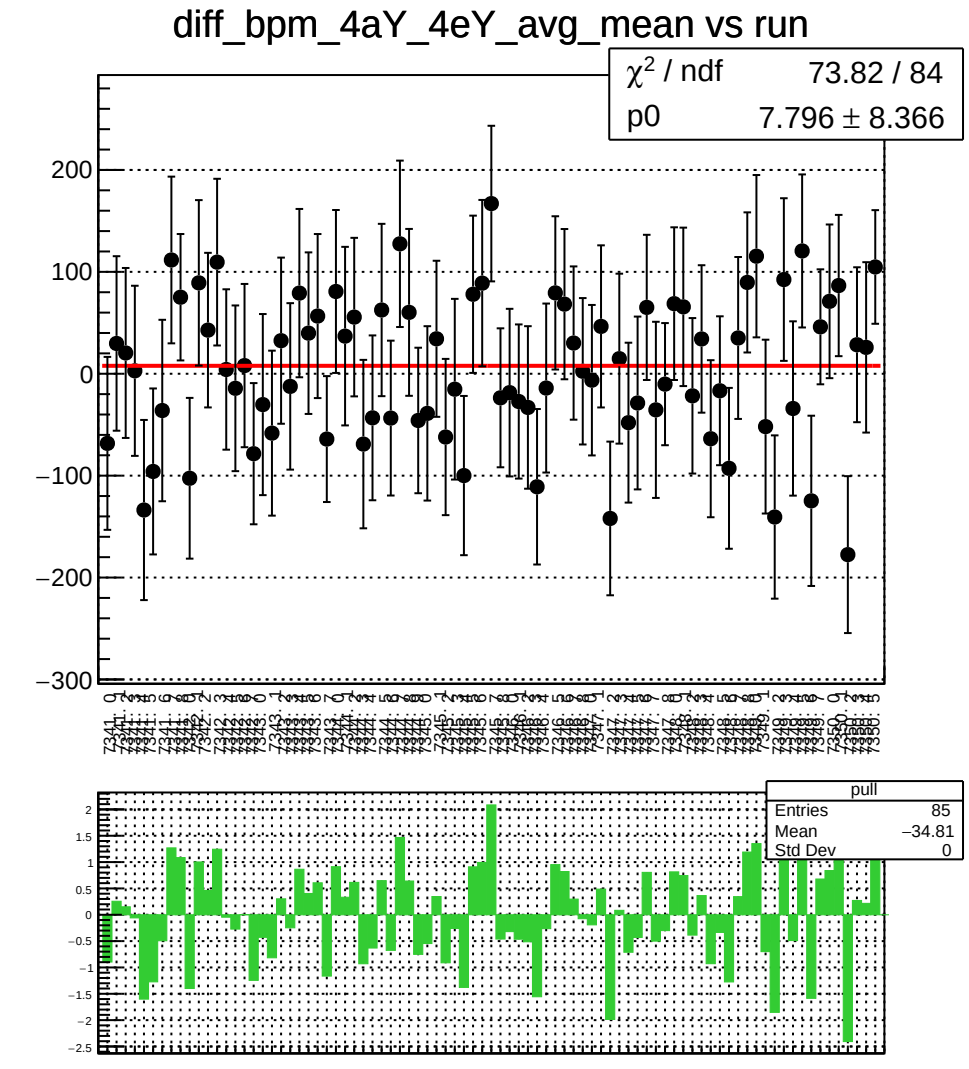

pull1D
Entries 85
Mean −0.01642
Std Dev 0.9173

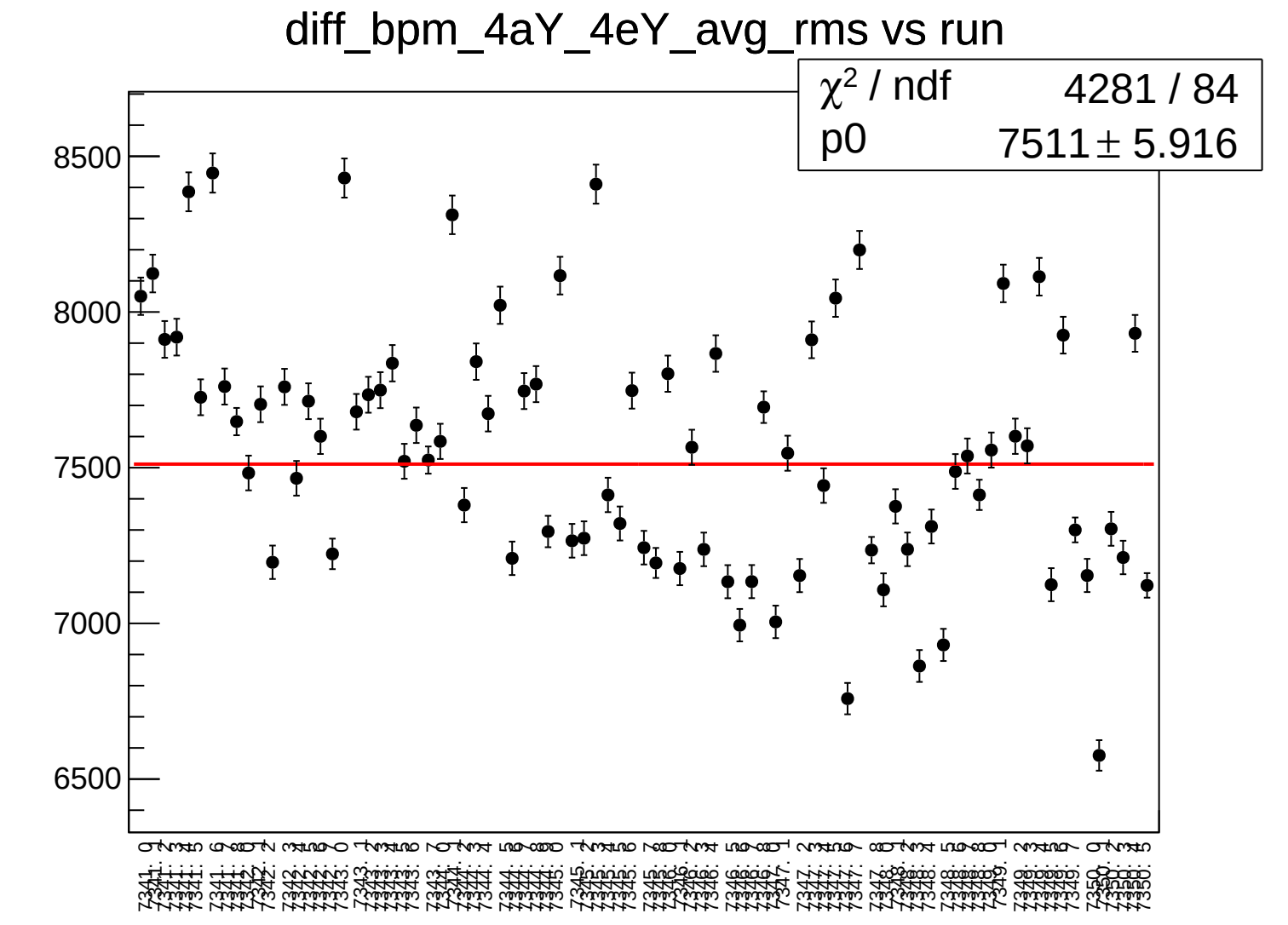

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 3557 / 84
p0 7431 ± 5.851
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

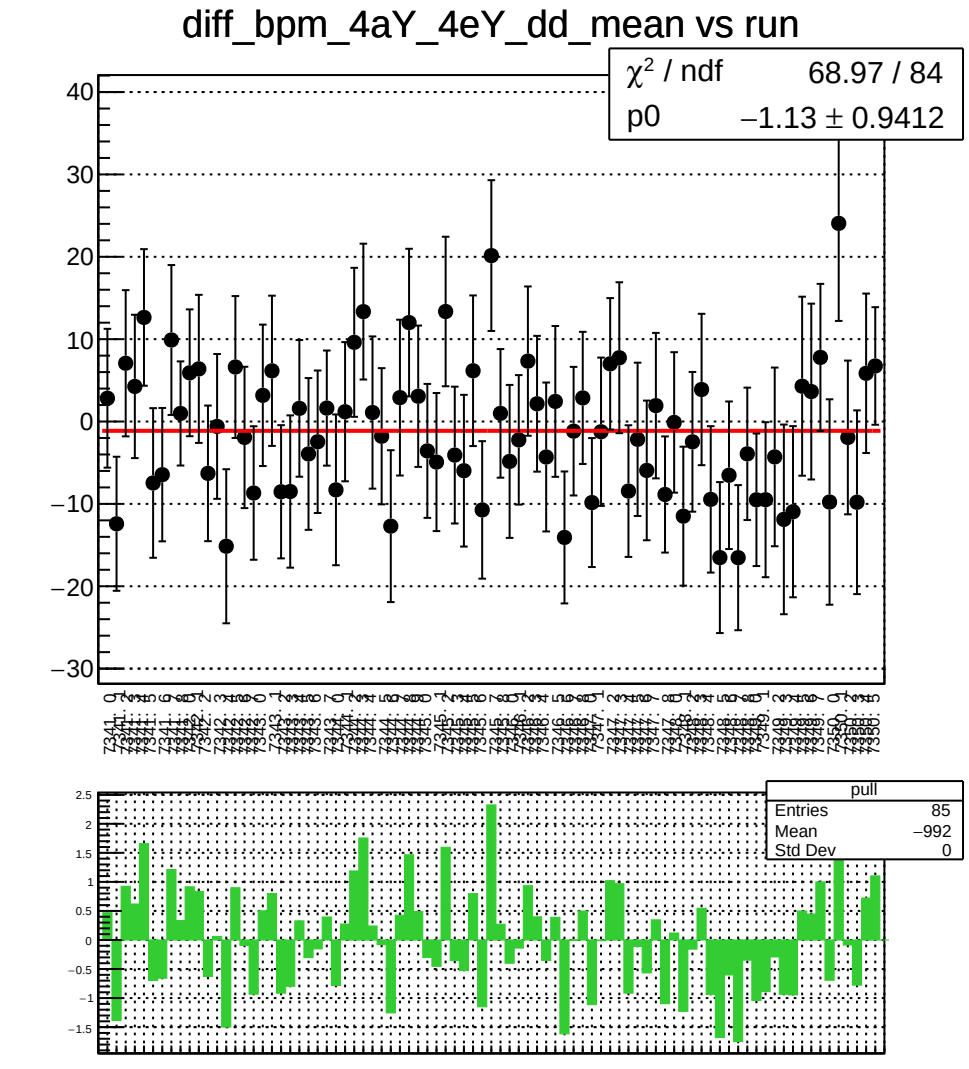

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 72.39 / 84
p0 −0.8547 ± 1.161
pull
Entries 85
Mean −109.6
Std Dev 0

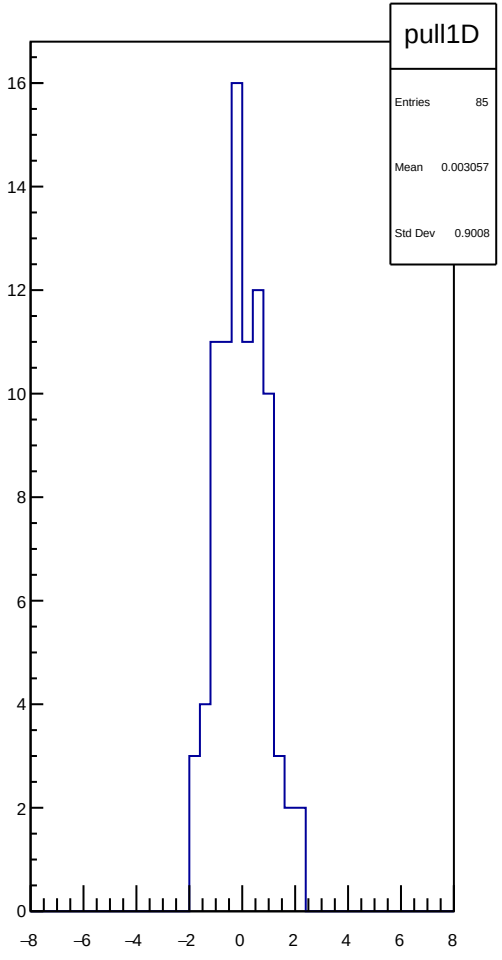

pull1D
Entries 85
Mean 0.007685
Std Dev 0.9228

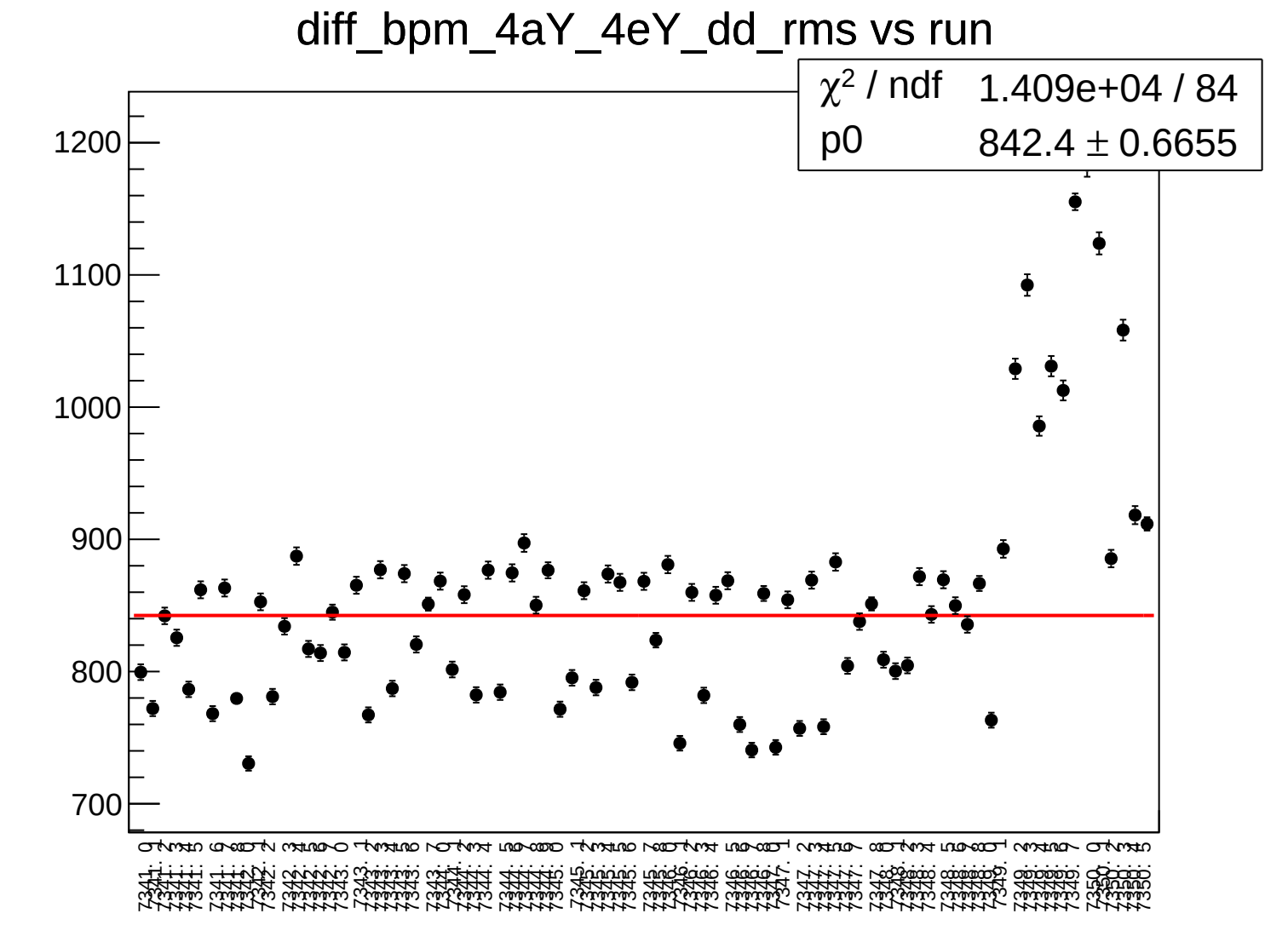

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 107.2 / 84
p0 1044 ± 0.821
1070
1060
1050
1040
1030
1020
1010

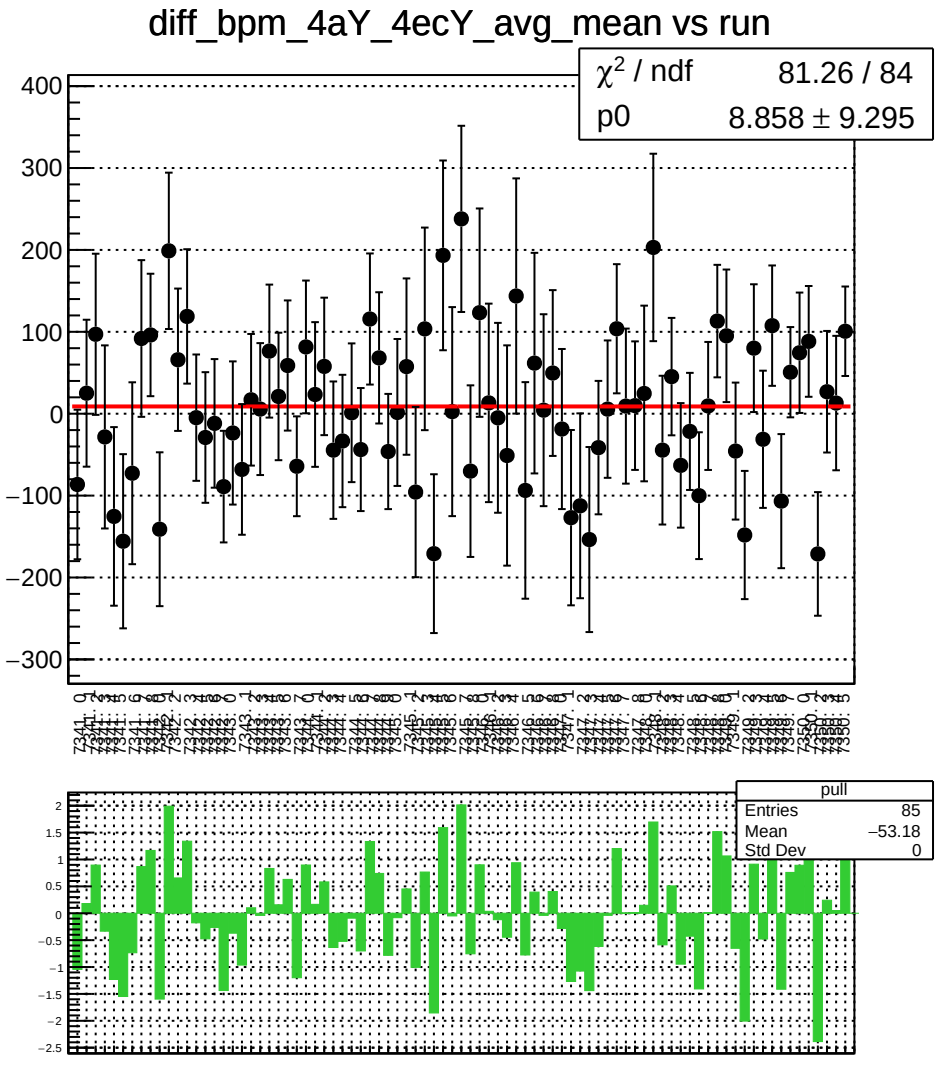

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 73.82 / 84
p0 7.796 ± 8.366
pull
Entries 85
Mean −34.81
Std Dev 0
pull1D
Entries 85
Mean −0.01713
Std Dev 0.9318

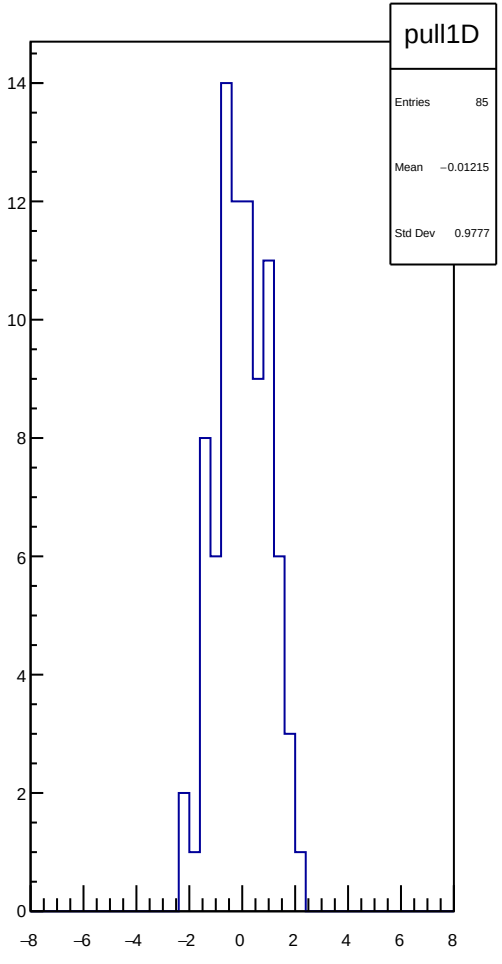

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 4281 / 84
p0 7511 ± 5.916
8500
8000
7500
7000
6500

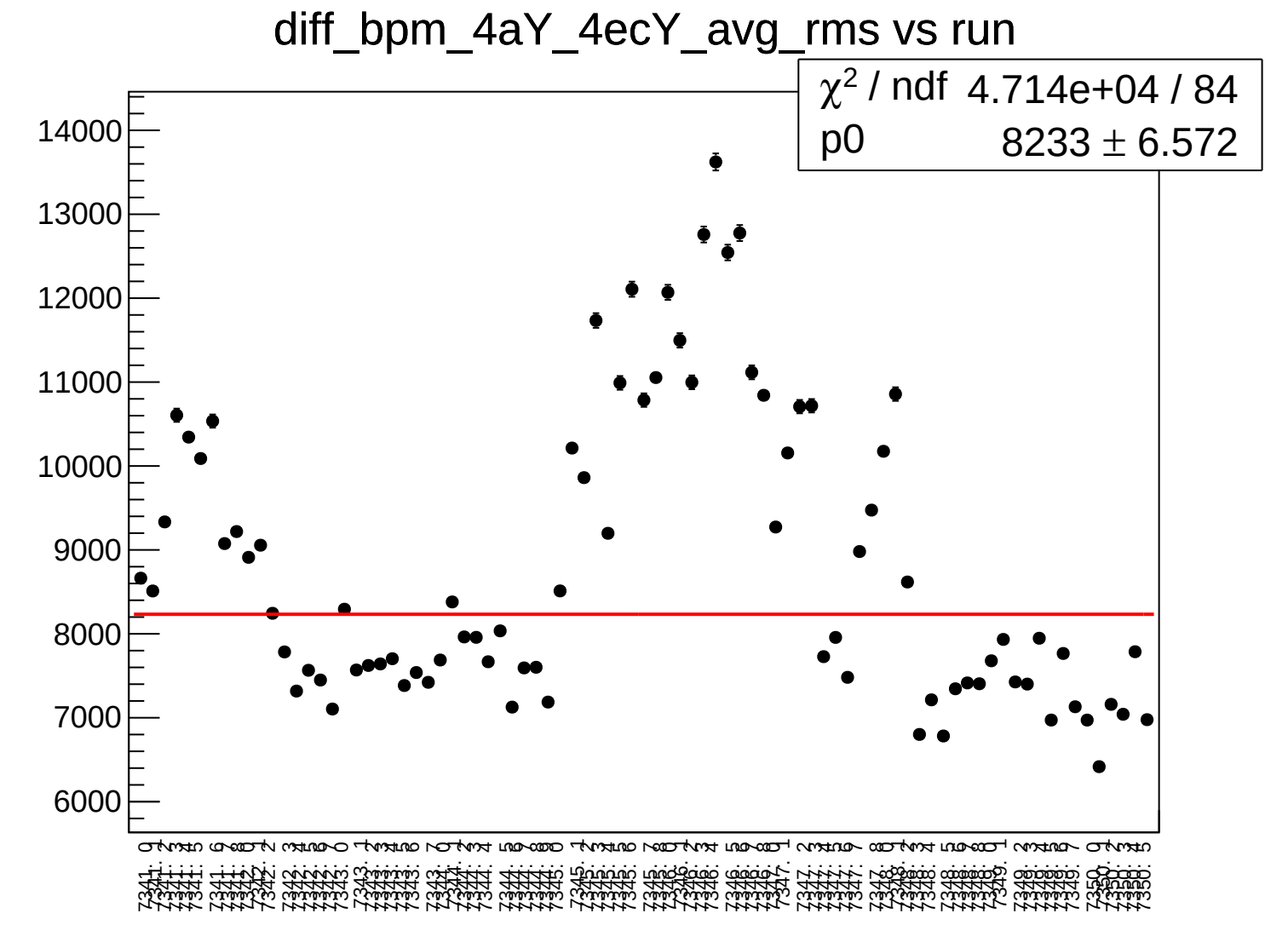

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 68.97 / 84
p0 −1.13 ± 0.9412
pull
Entries 85
Mean −992
Std Dev 0

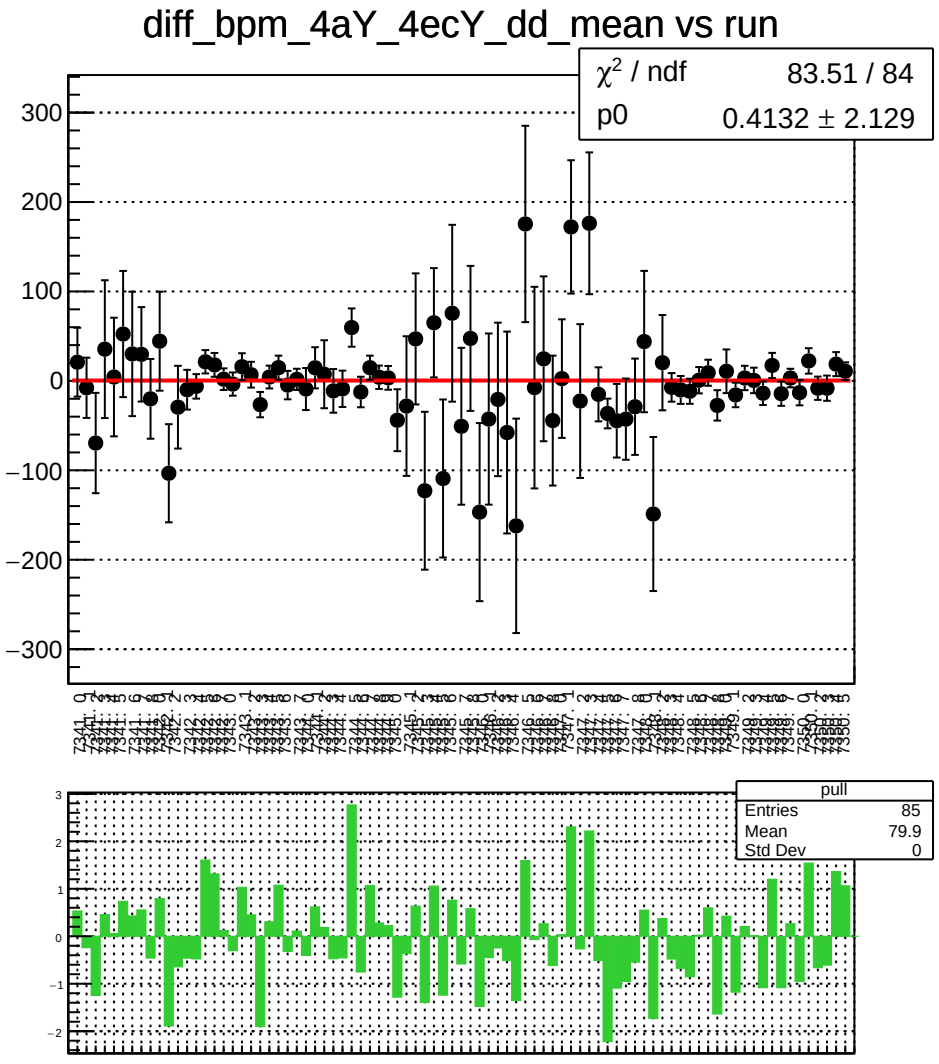

pull1D
Entries 85
Mean 0.003057
Std Dev 0.9008

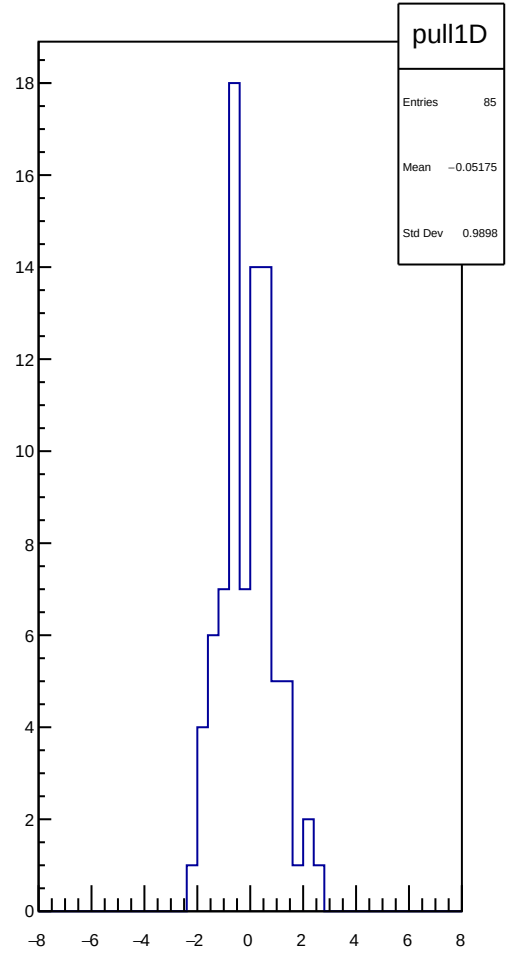

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.409e+04 / 84
p0 842.4 ± 0.6655
1200
1100
1000
900
800
700

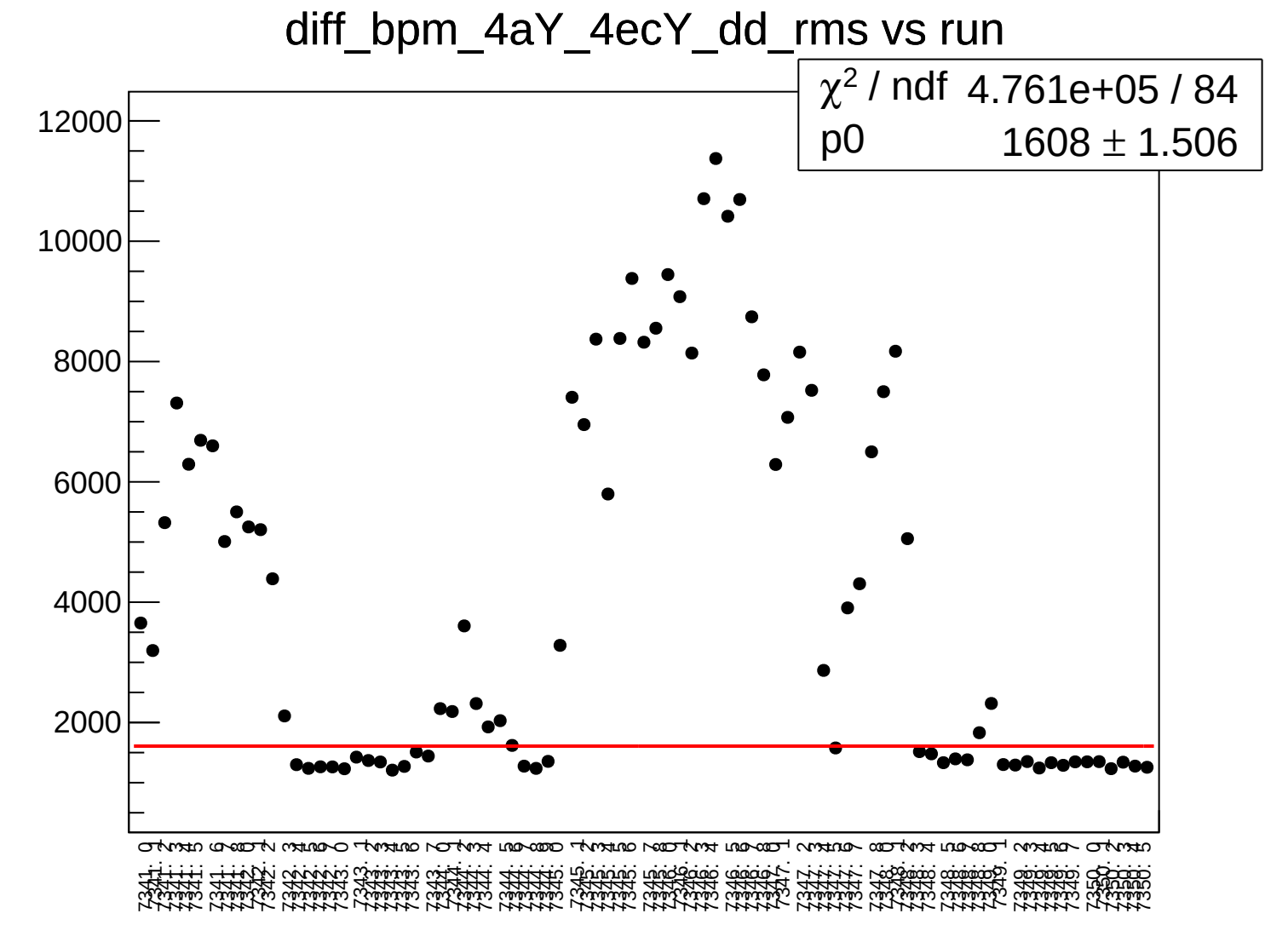

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 81.26 / 84
p0 8.858 ± 9.295
pull
Entries 85
Mean −53.18
Std Dev 0

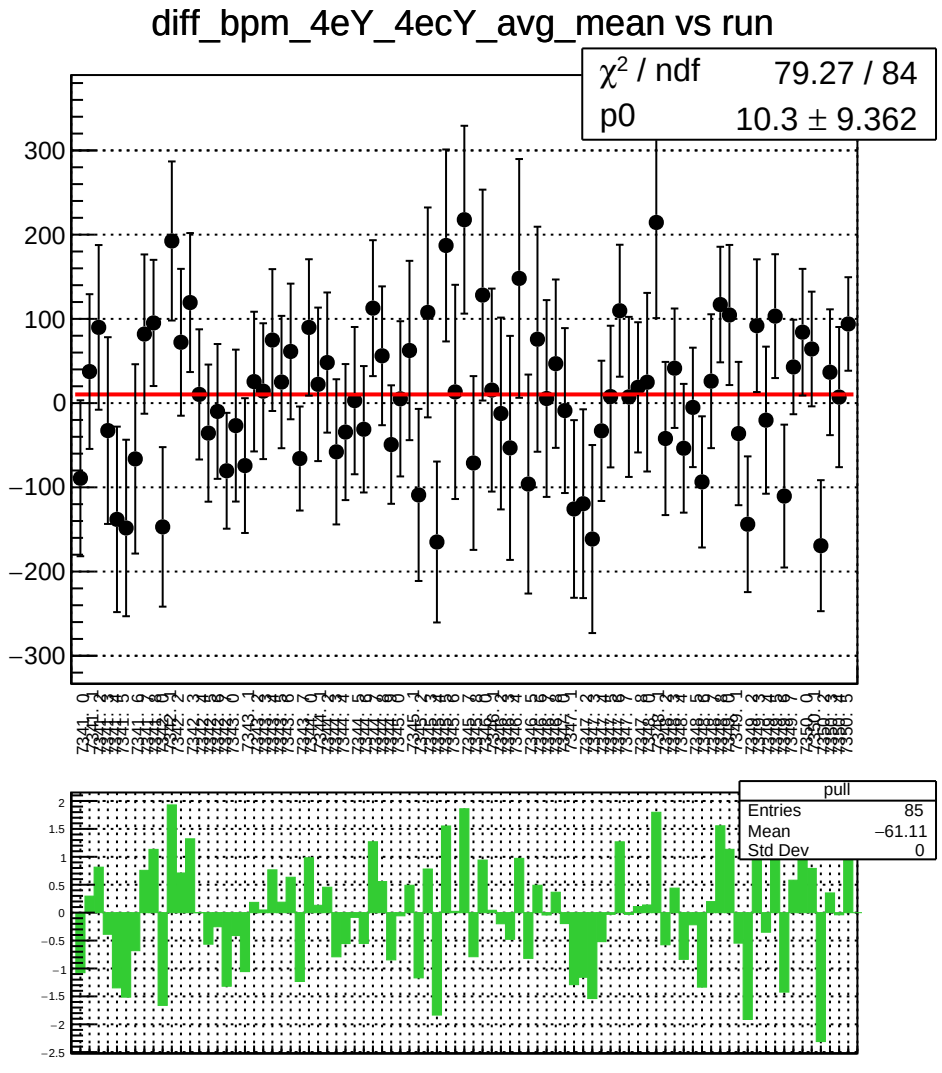

pull1D
Entries 85
Mean −0.01215
Std Dev 0.9777

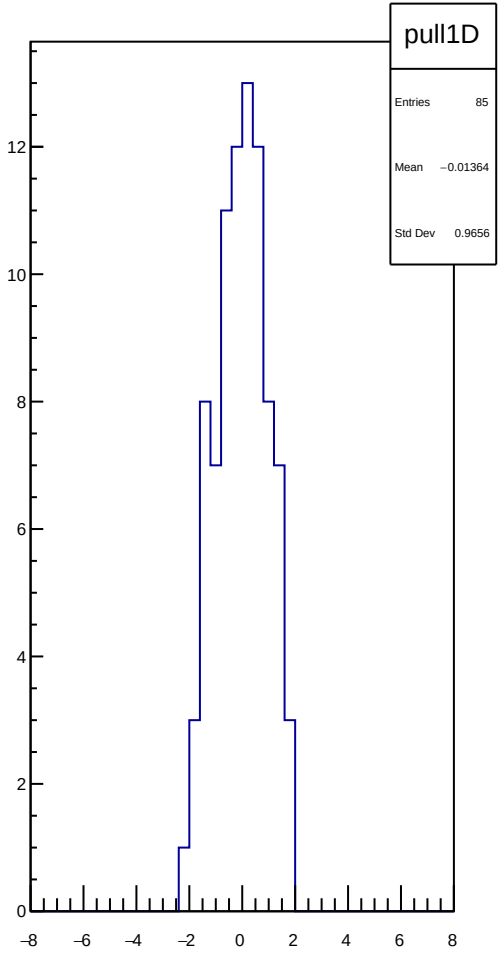

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 4.714e+04 / 84
p0 8233 ± 6.572
14000
13000
12000
11000
10000
9000
8000
7000
6000

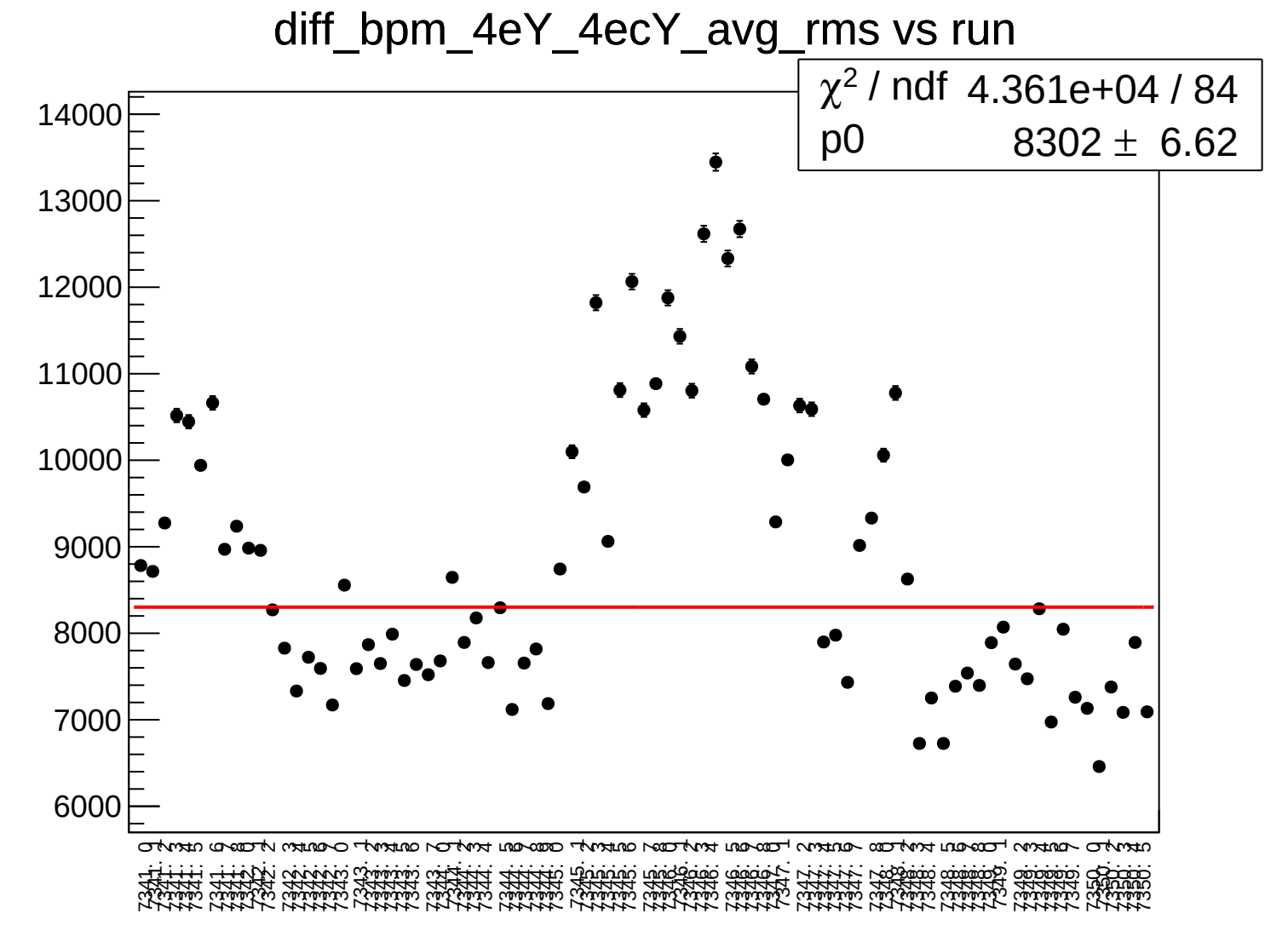

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 83.51 / 84
p0 0.4132 ± 2.129
pull
Entries 85
Mean 79.9
Std Dev 0

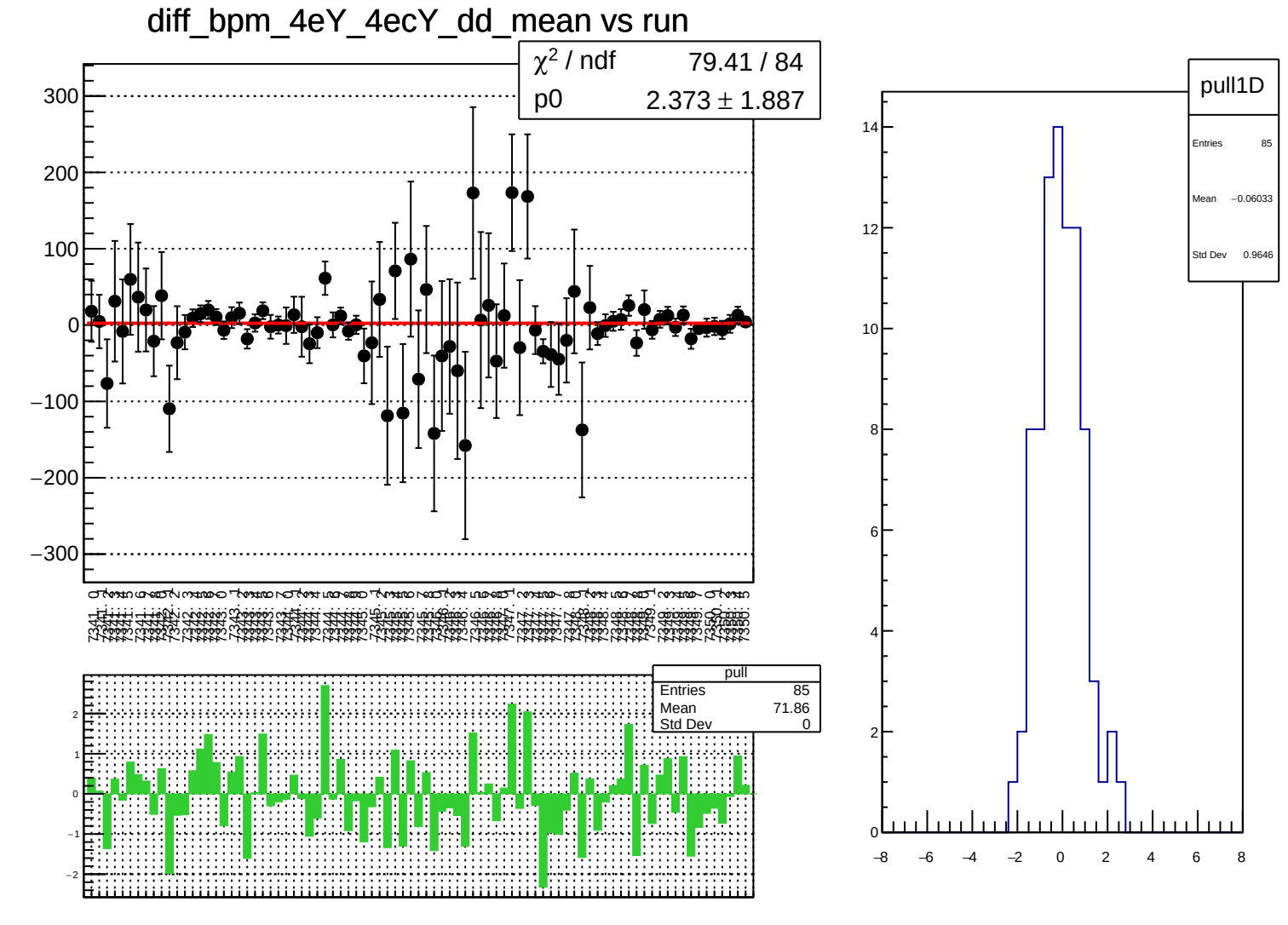

pull1D
Entries 85
Mean −0.05175
Std Dev 0.9898

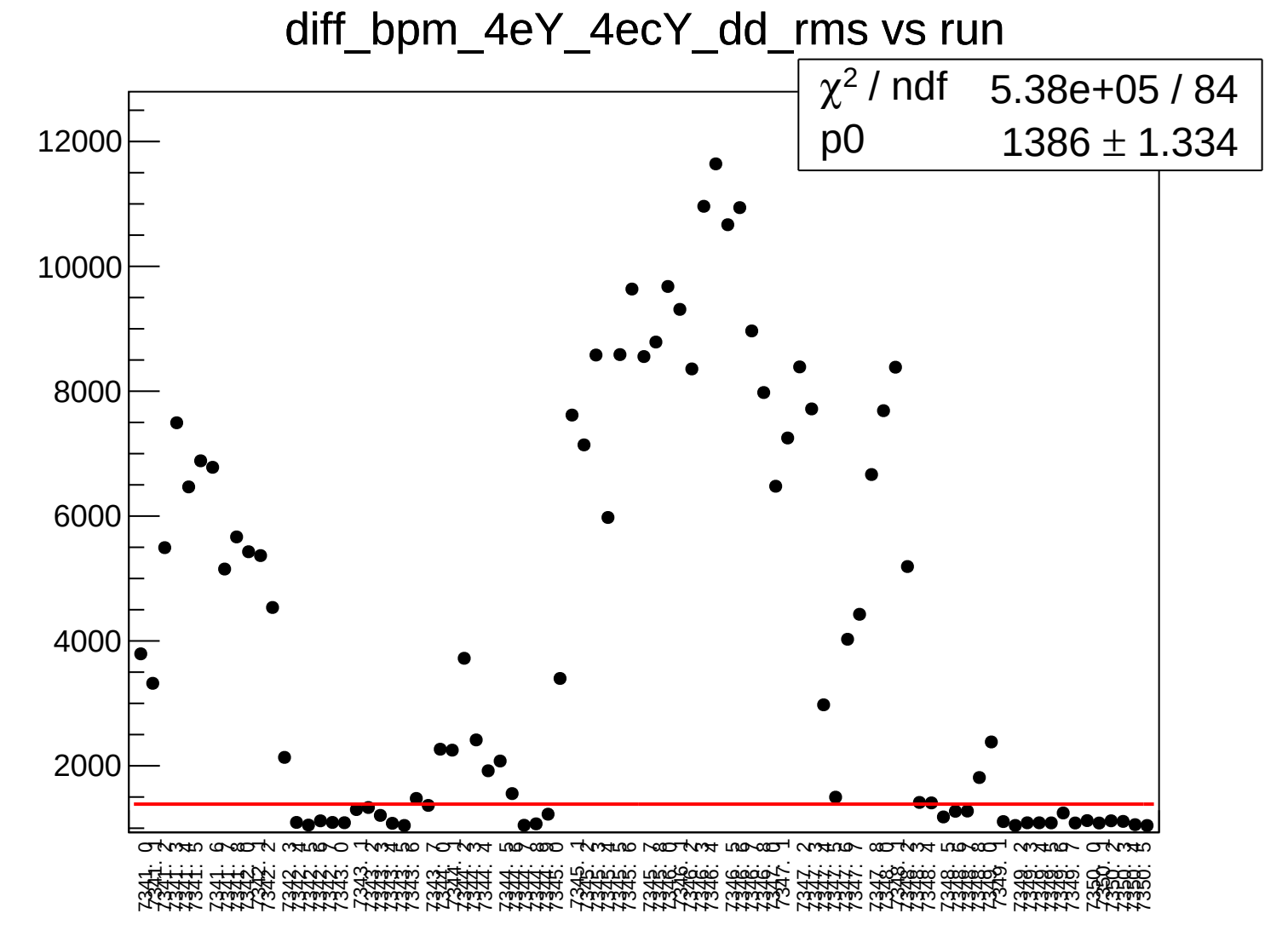

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 4.761e+05 / 84
p0 1608 ± 1.506
12000
10000
8000
6000
4000
2000

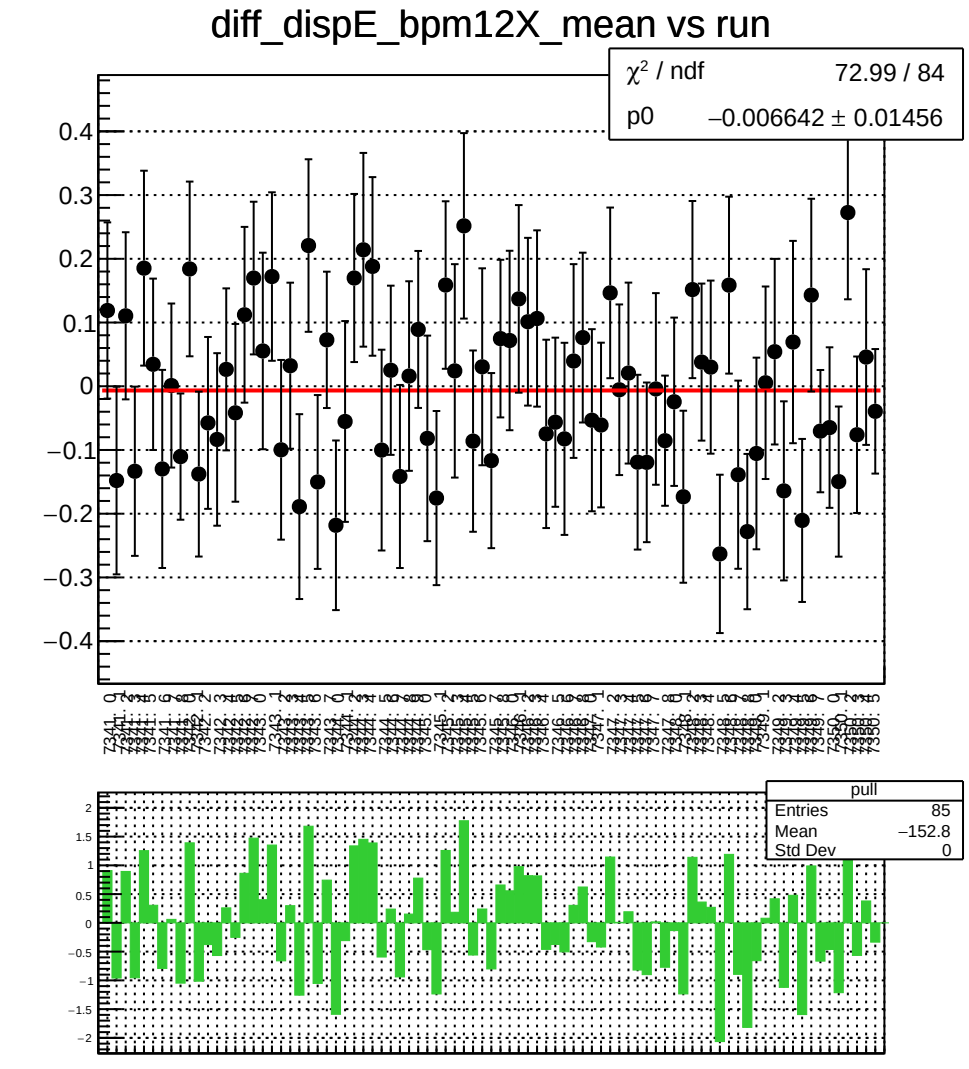

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 79.27 / 84
p0 10.3 ± 9.362
pull
Entries 85
Mean −61.11
Std Dev 0

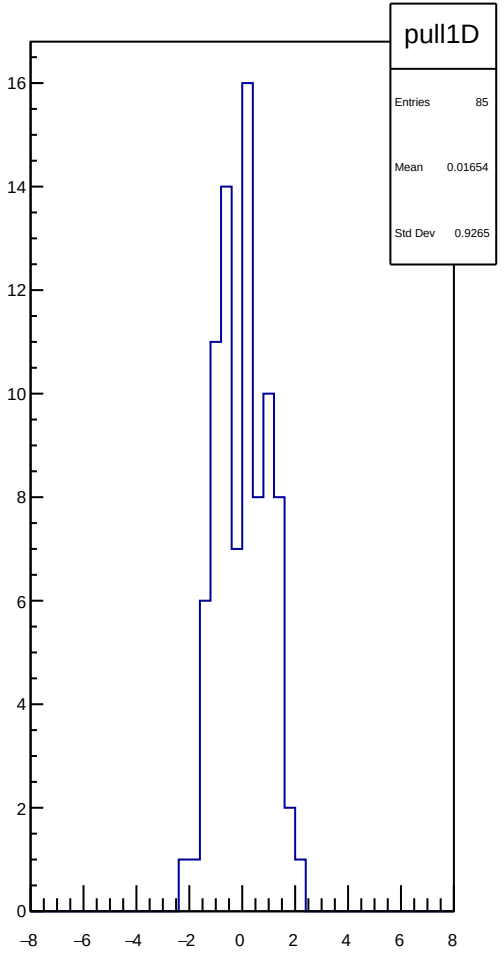

pull1D
Entries 85
Mean −0.01364
Std Dev 0.9656

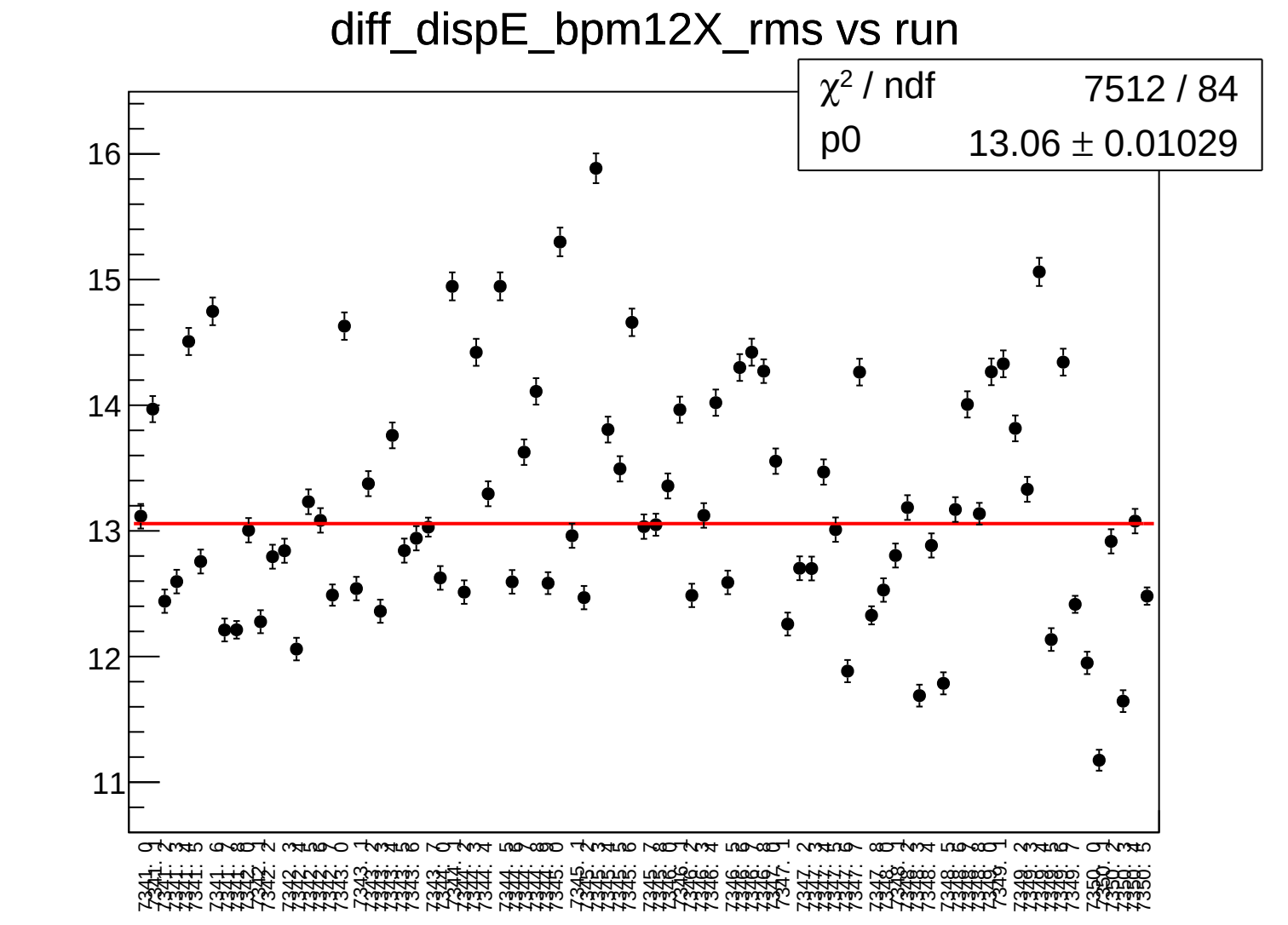

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 4.361e+04 / 84
p0 8302 ± 6.62
14000
13000
12000
11000
10000
9000
8000
7000
6000

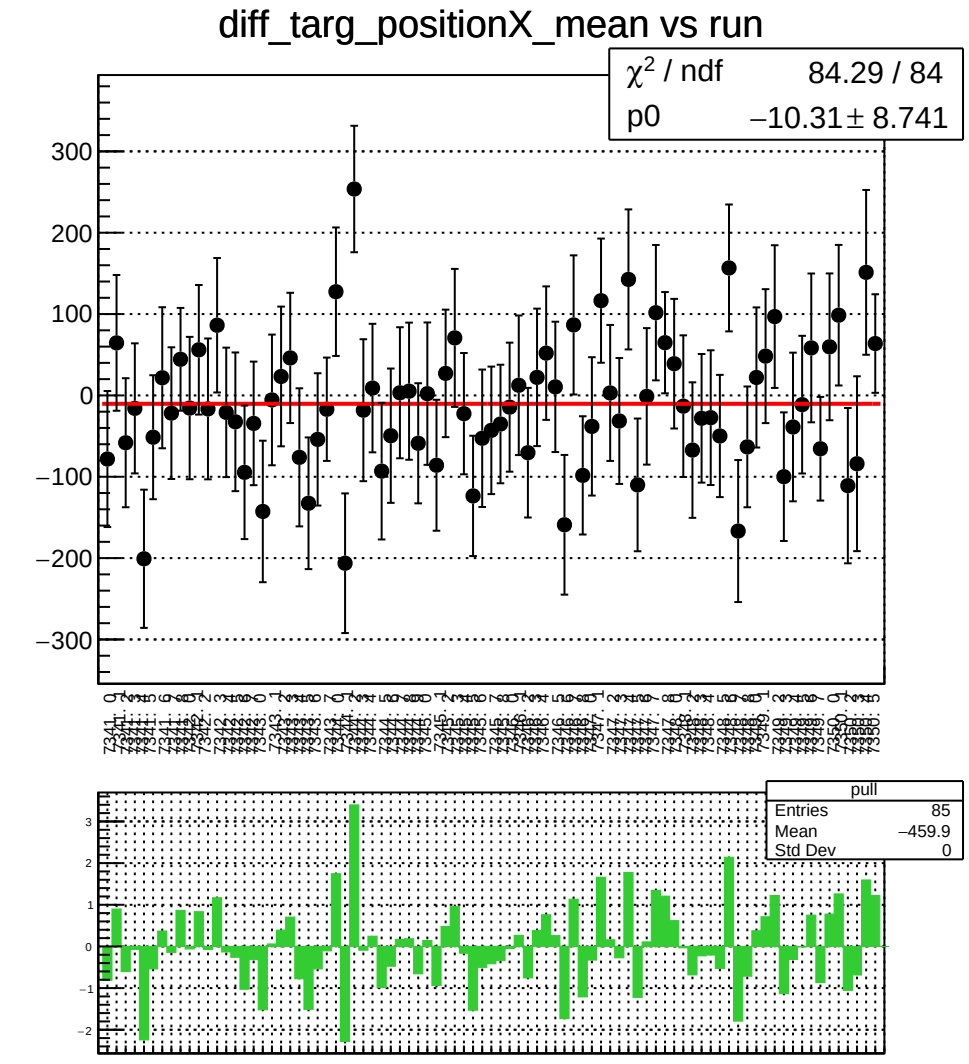

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 79.41 / 84
p0 2.373 ± 1.887
pull
Entries 85
Mean 71.86
Std Dev 0
pull1D
Entries 85
Mean −0.06033
Std Dev 0.9646

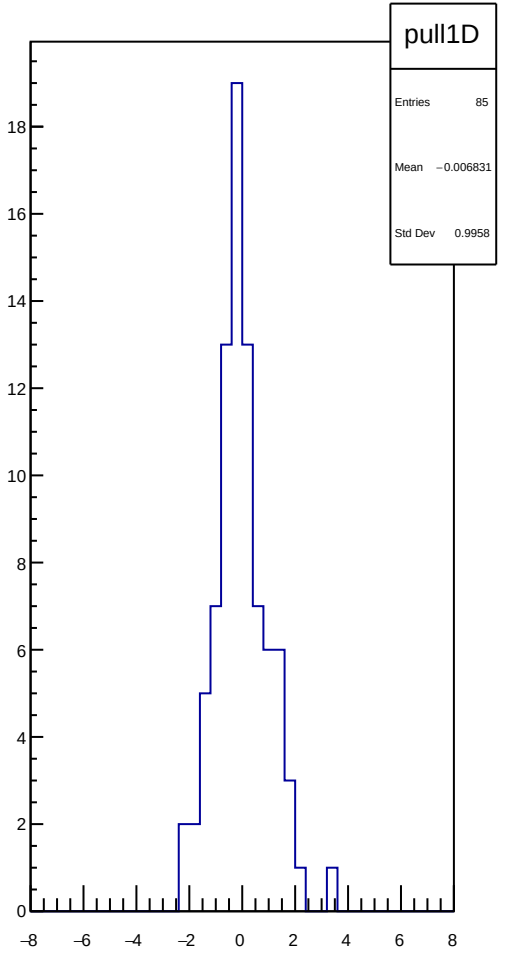

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 5.38e+05 / 84
p0 1386 ± 1.334
12000
10000
8000
6000
4000
2000

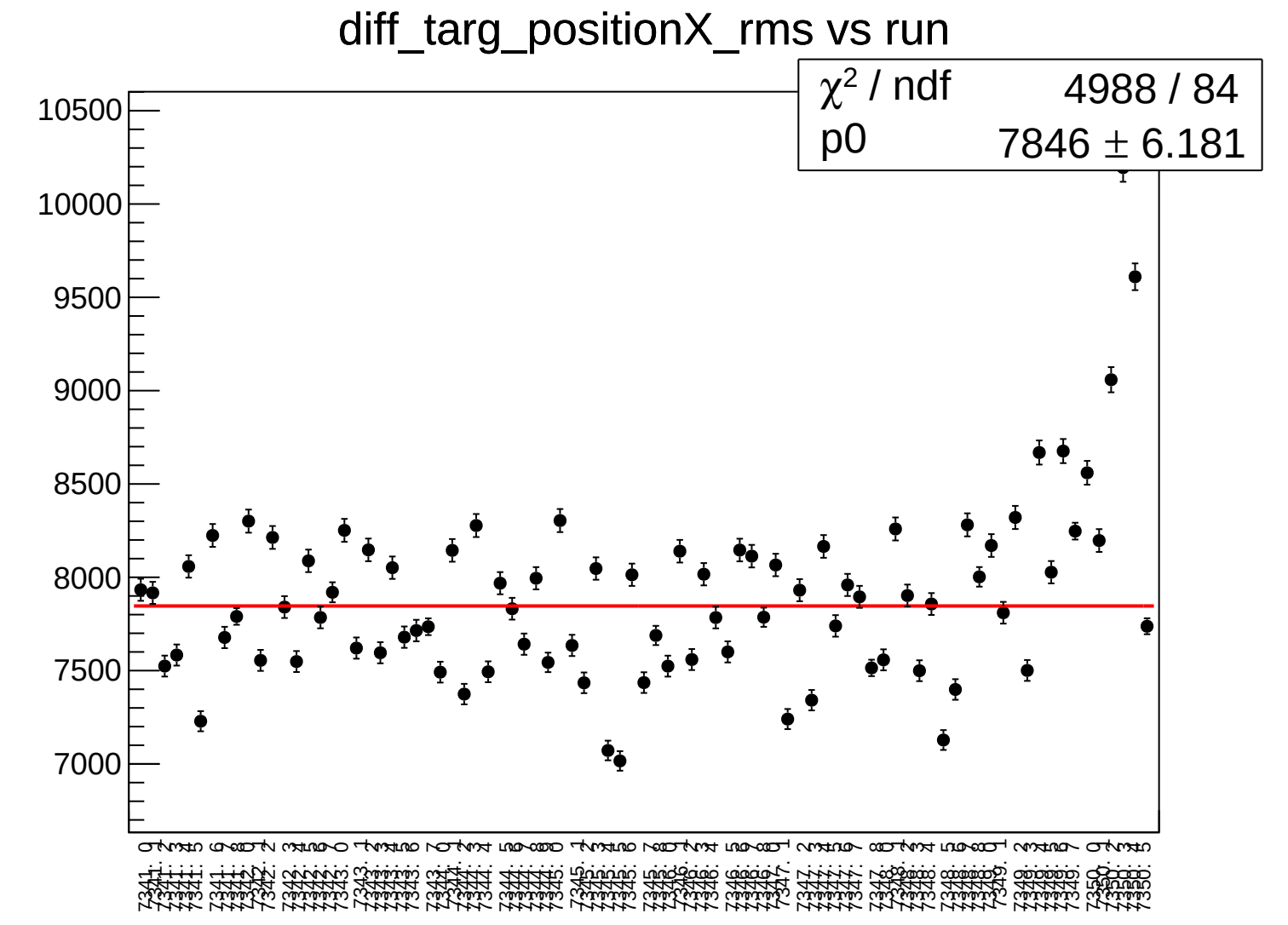

diff_dispE_bpm12X_mean vs run
χ² / ndf 72.99 / 84
p0 −0.006642 ± 0.01456
pull
Entries 85
Mean −152.8
Std Dev 0

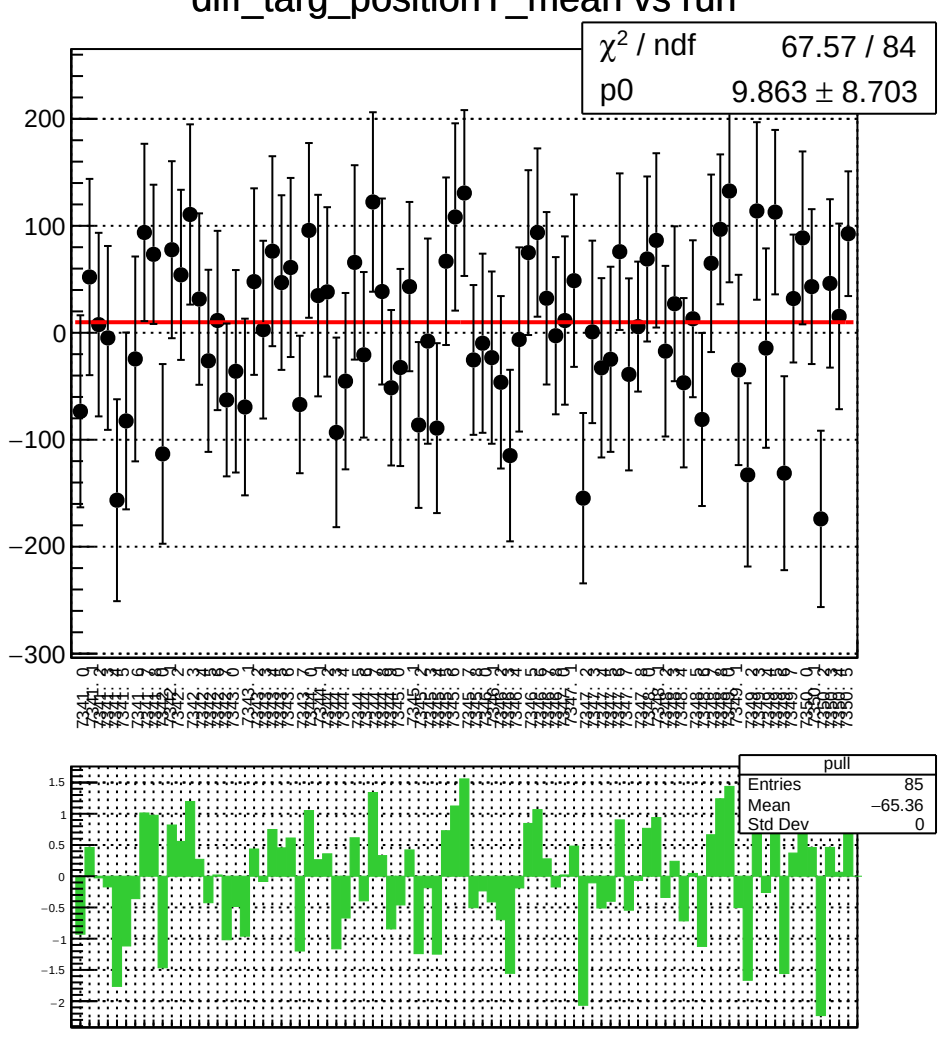

pull1D
Entries 85
Mean 0.01654
Std Dev 0.9265

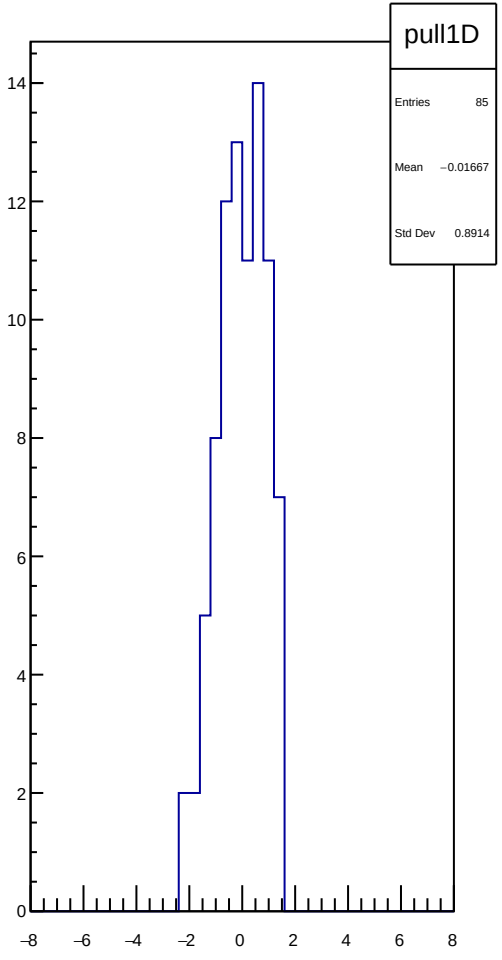

diff_dispE_bpm12X_rms vs run
χ² / ndf 7512 / 84
p0 13.06 ± 0.01029
16
15
14
13
12
11

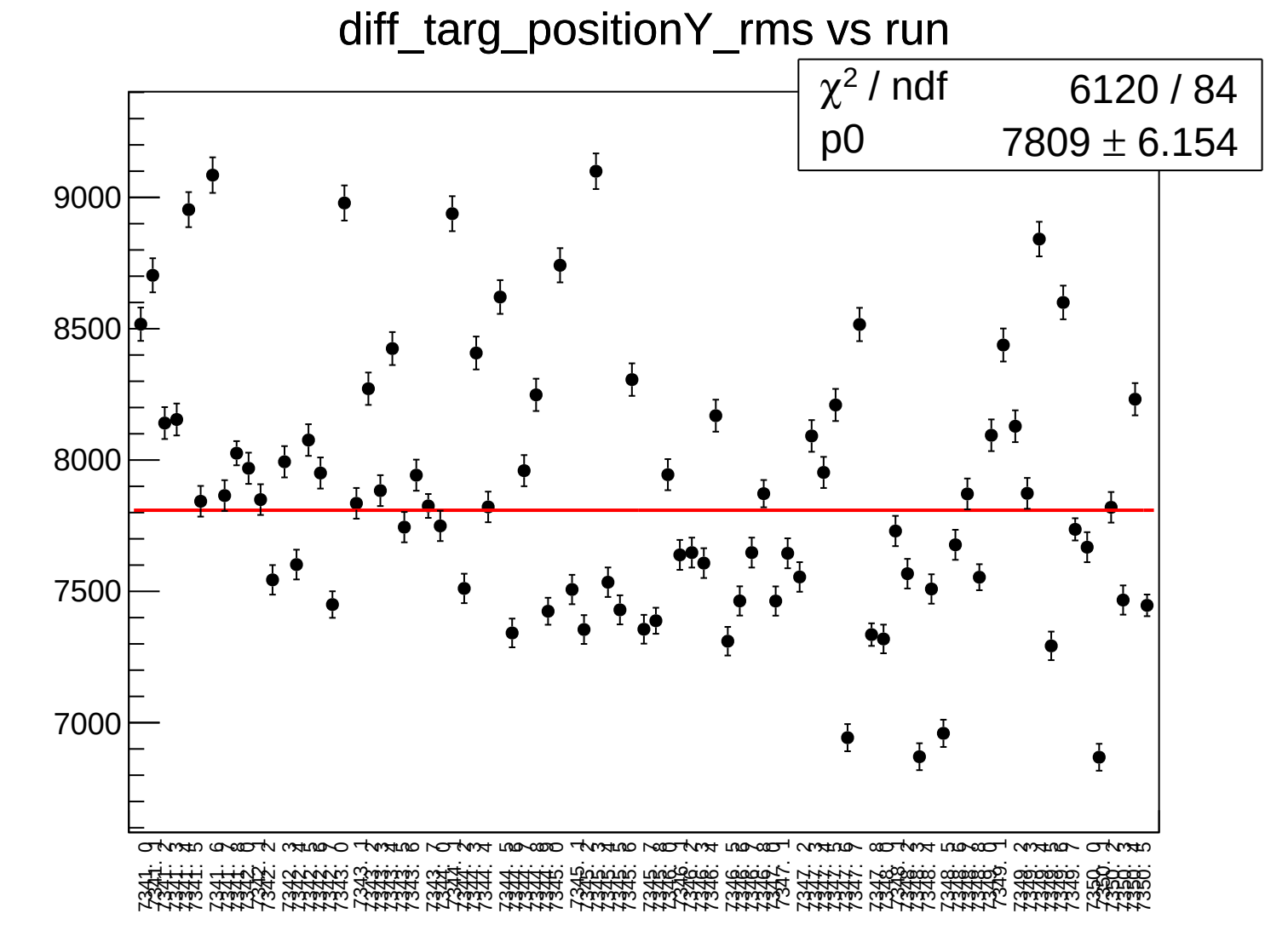

diff_targ_positionX_mean vs run
χ² / ndf 84.29 / 84
p0 −10.31 ± 8.741
pull
Entries 85
Mean −459.9
Std Dev 0

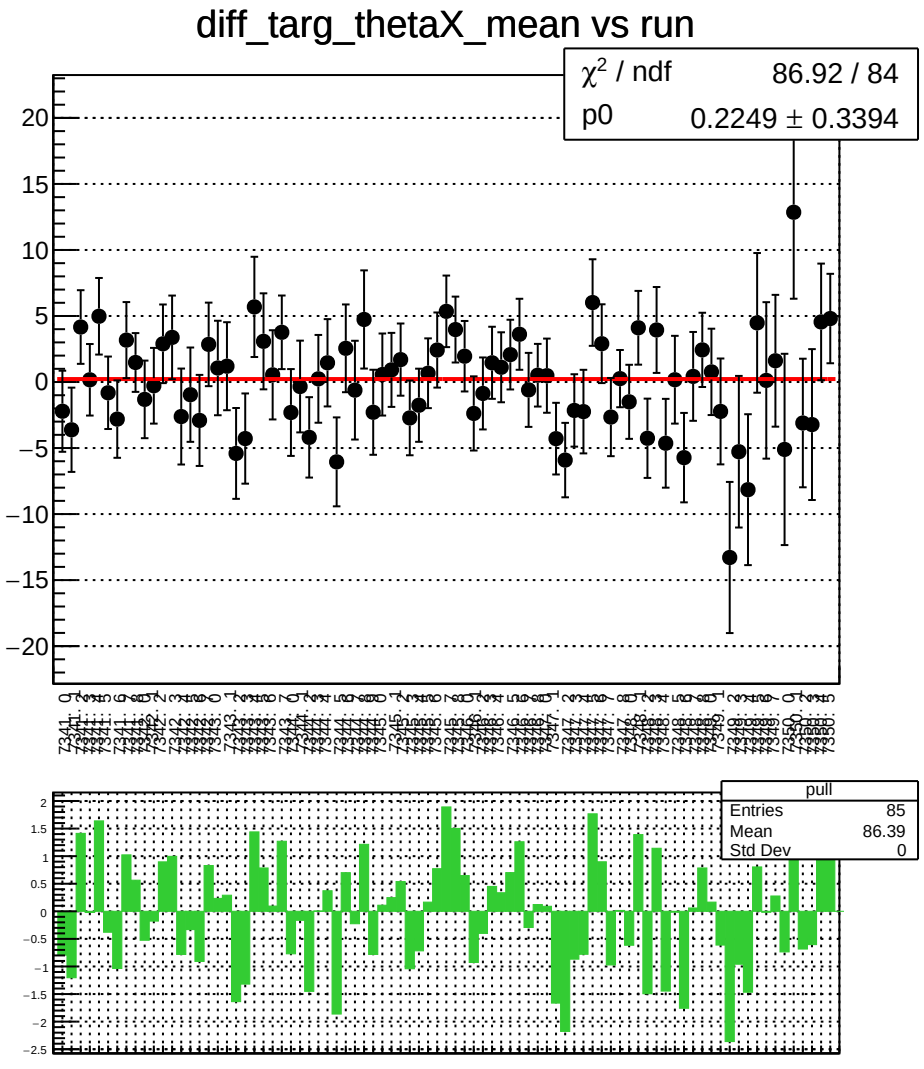

pull1D
Entries 85
Mean −0.006831
Std Dev 0.9958

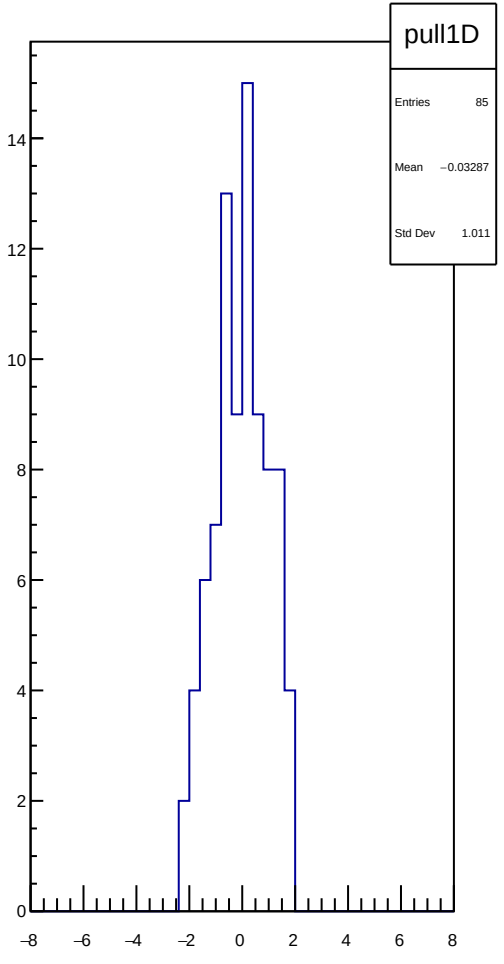

diff_targ_positionX_rms vs run
χ² / ndf 4988 / 84
p0 7846 ± 6.181
10500
10000
9500
9000
8500
8000
7500
7000

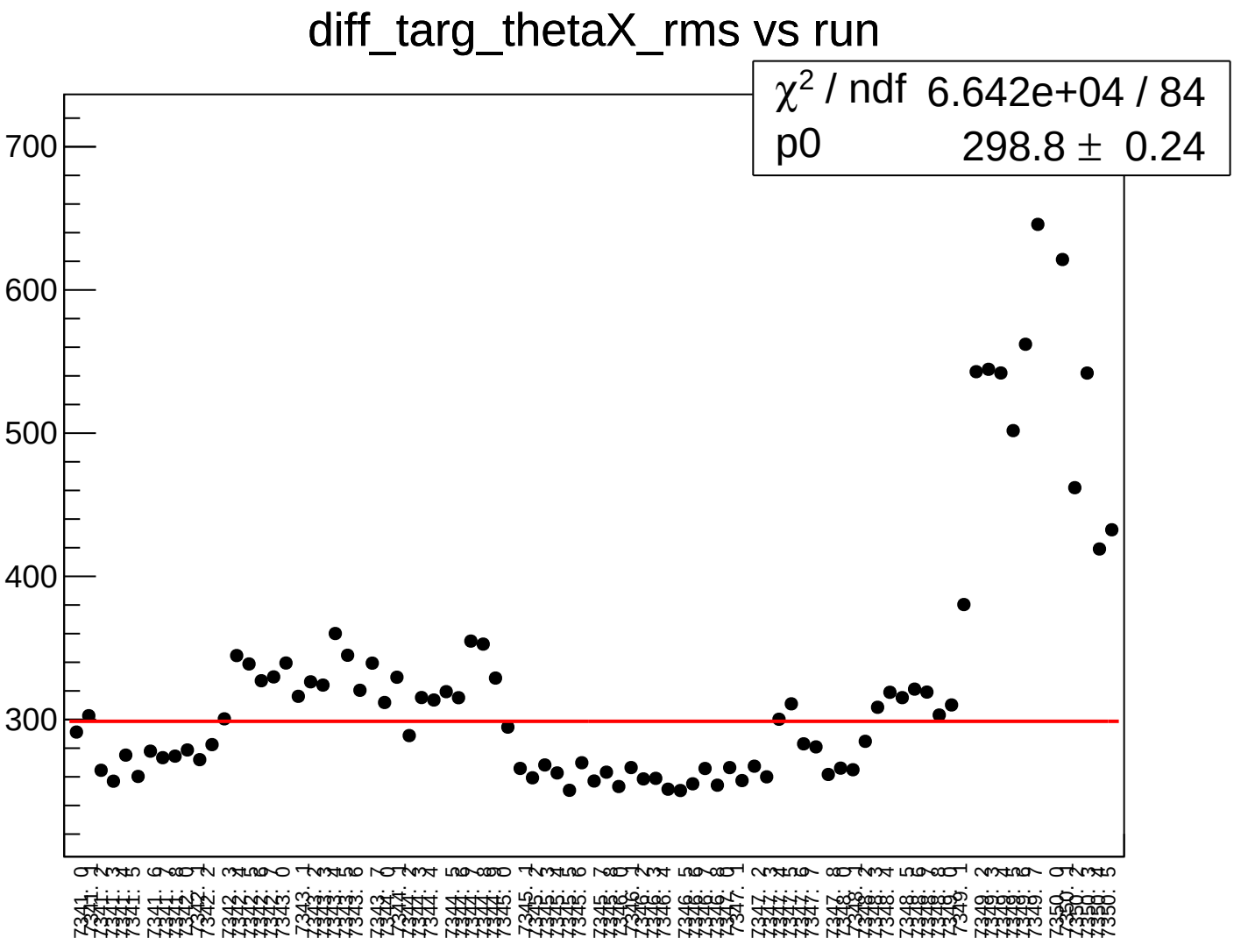

diff_targ_positionY_mean vs run
χ^2 / ndf 67.57 / 84
p0 9.863 ± 8.703
pull
Entries 85
Mean −65.36
Std Dev 0

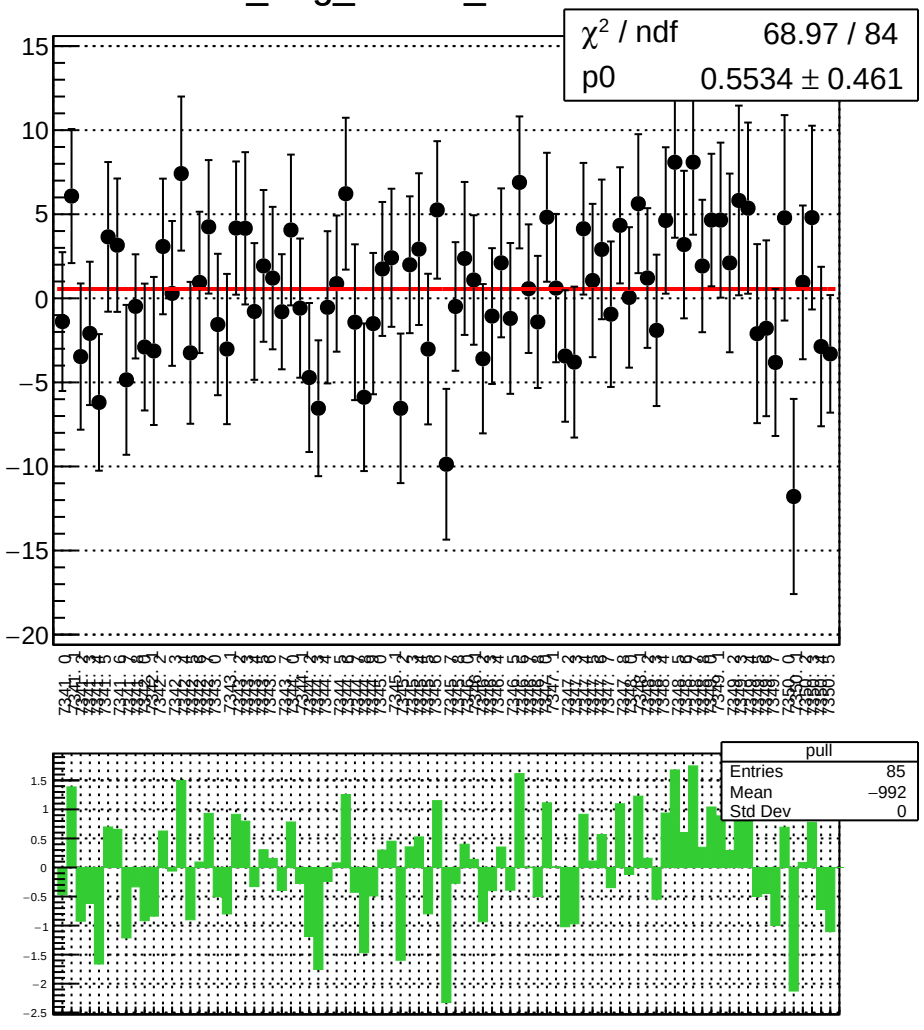

pull1D
Entries 85
Mean −0.01667
Std Dev 0.8914

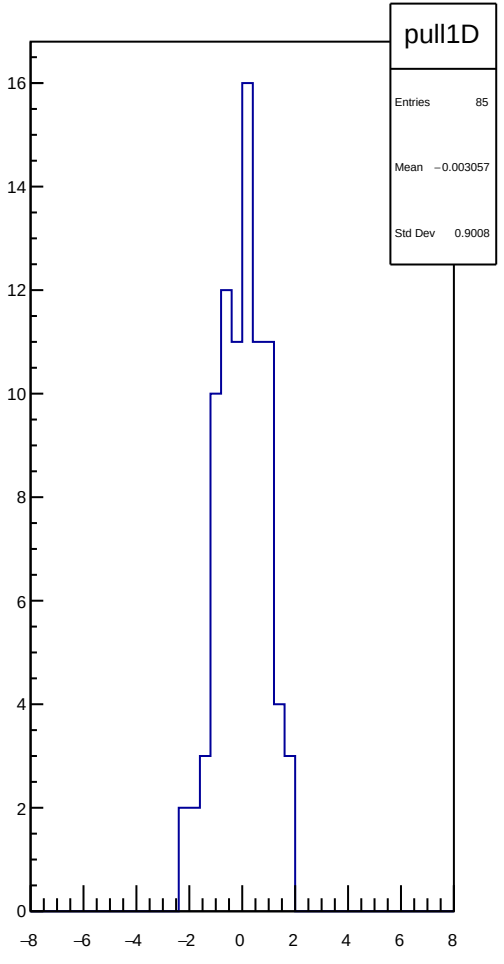

diff_targ_positionY_rms vs run
χ² / ndf 6120 / 84
p0 7809 ± 6.154
9000
8500
8000
7500
7000

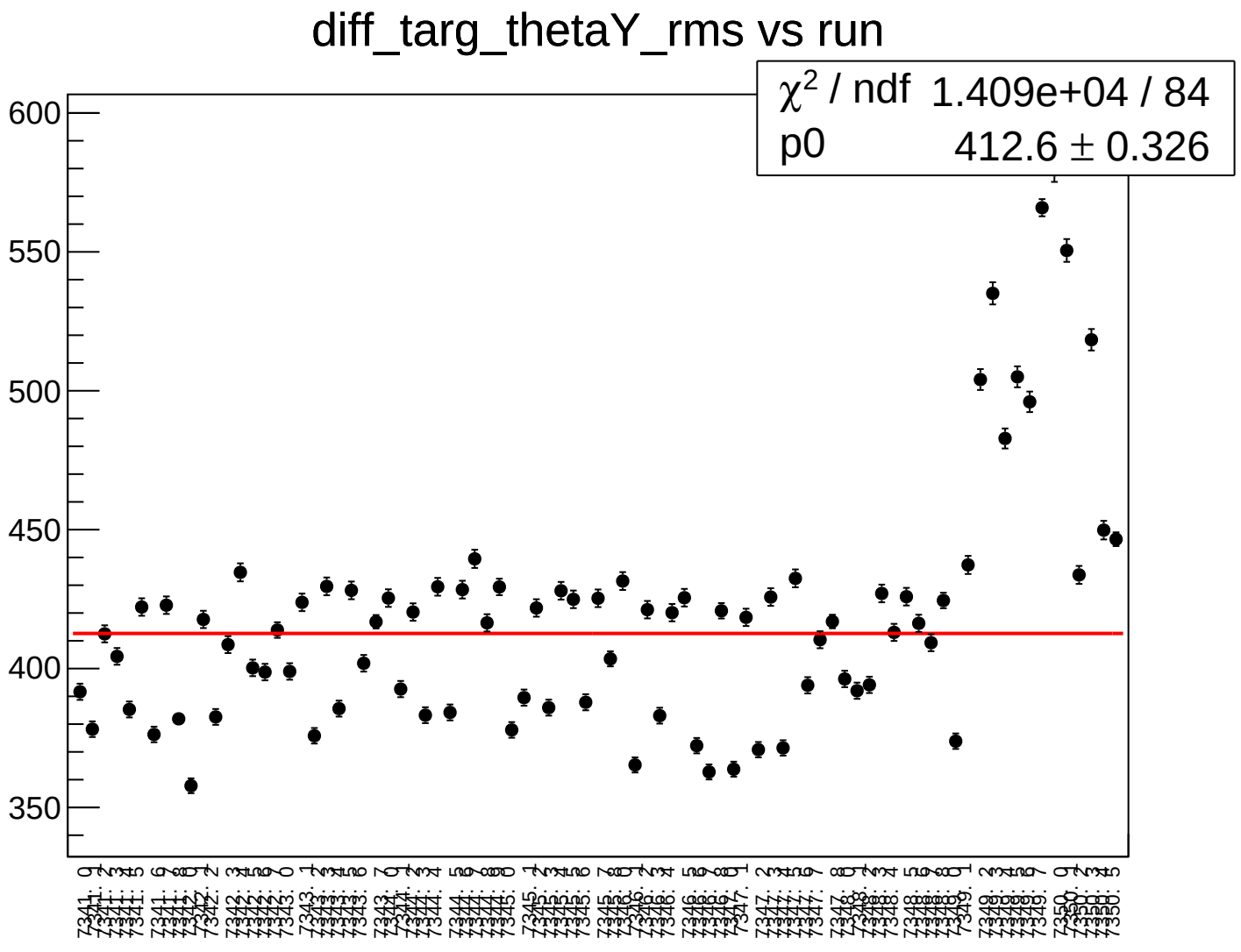

diff_targ_thetaX_mean vs run
χ² / ndf 86.92 / 84
p0 0.2249 ± 0.3394
pull
Entries 85
Mean 86.39
Std Dev 0

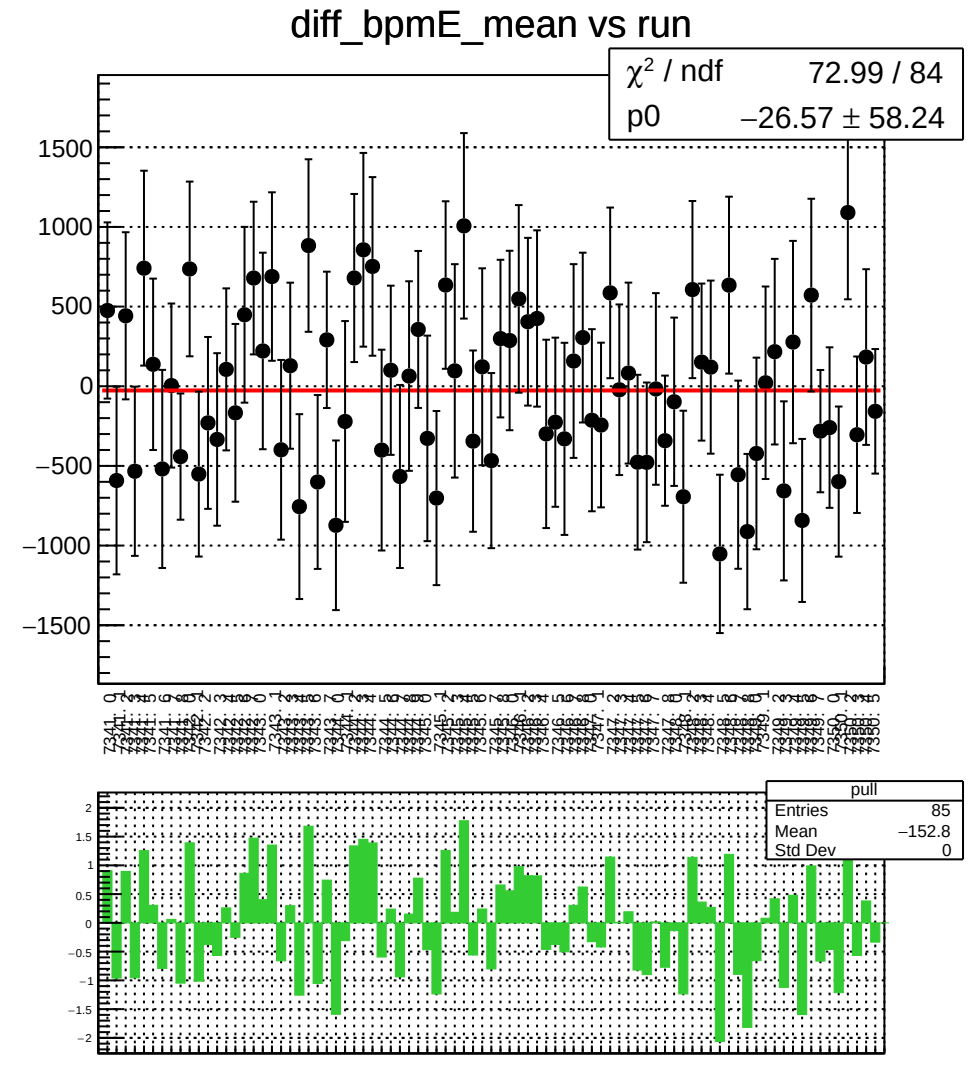

pull1D
Entries 85
Mean −0.03287
Std Dev 1.011

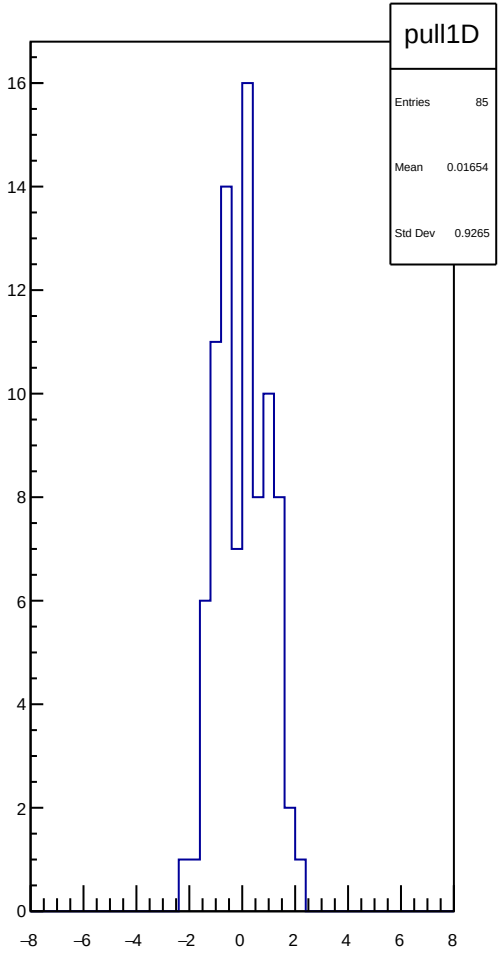

diff_targ_thetaX_rms vs run
χ² / ndf 6.642e+04 / 84
p0 298.8 ± 0.24
700
600
500
400
300

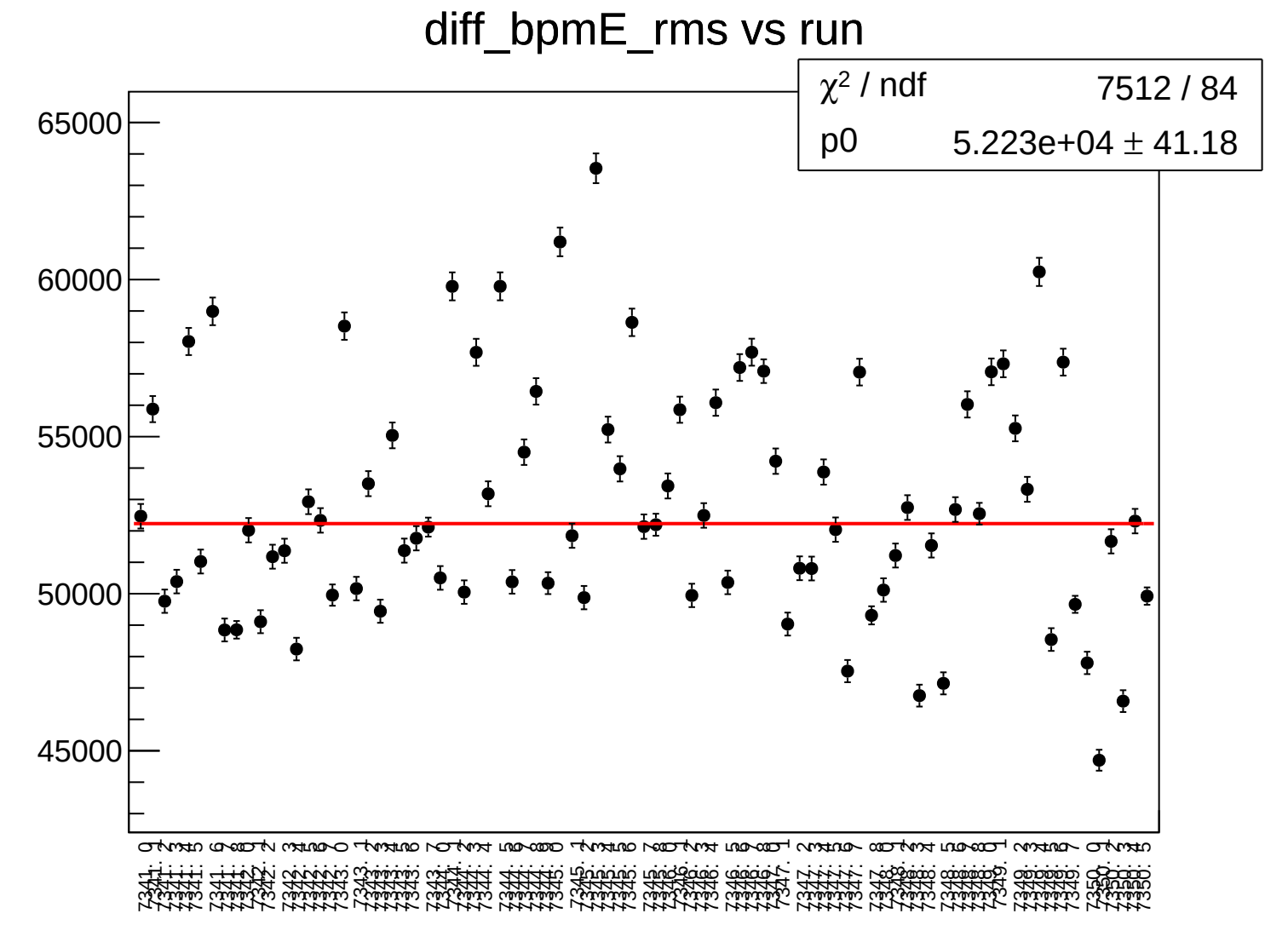

diff_targ_thetaY_mean vs run
χ² / ndf 68.97 / 84
p0 0.5534 ± 0.461
pull
Entries 85
Mean −992
Std Dev 0

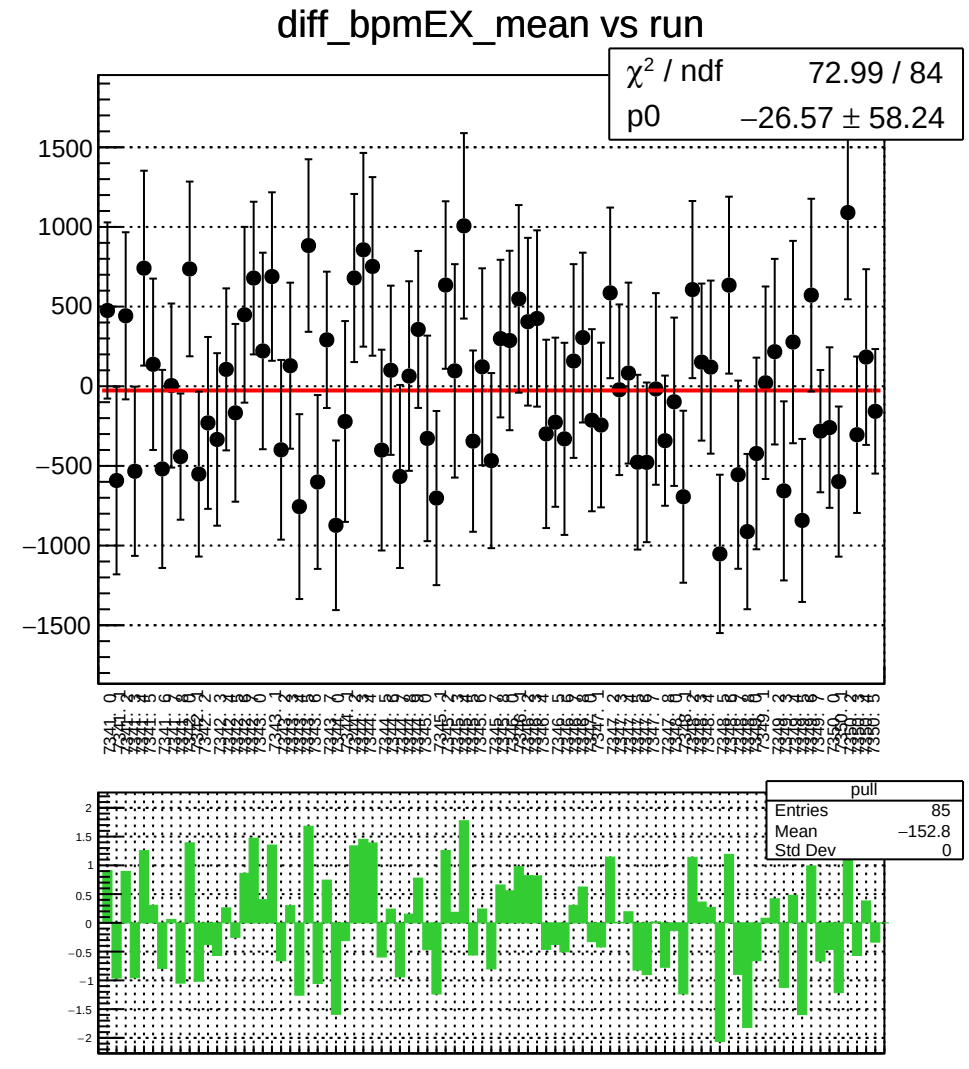

pull1D
Entries 85
Mean −0.003057
Std Dev 0.9008

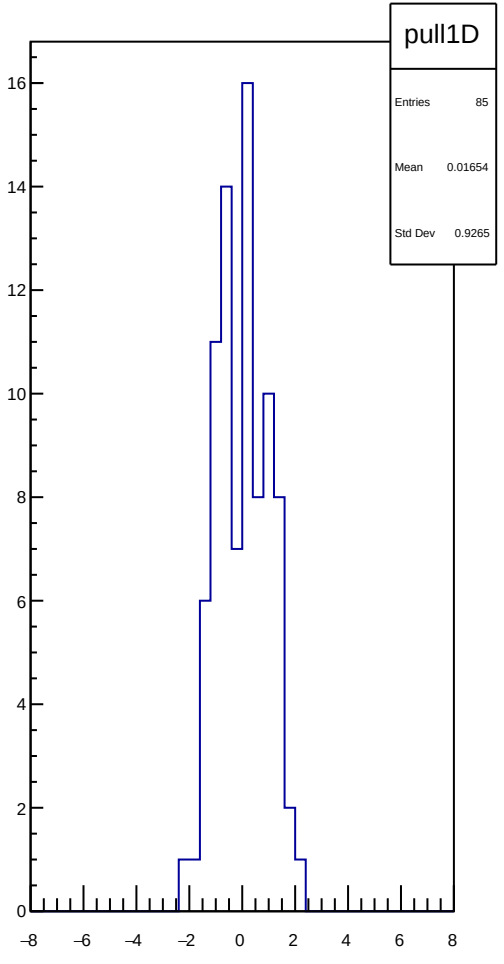

diff_targ_thetaY_rms vs run
χ^2 / ndf 1.409e+04 / 84
p0 412.6 ± 0.326
600
550
500
450
400
350

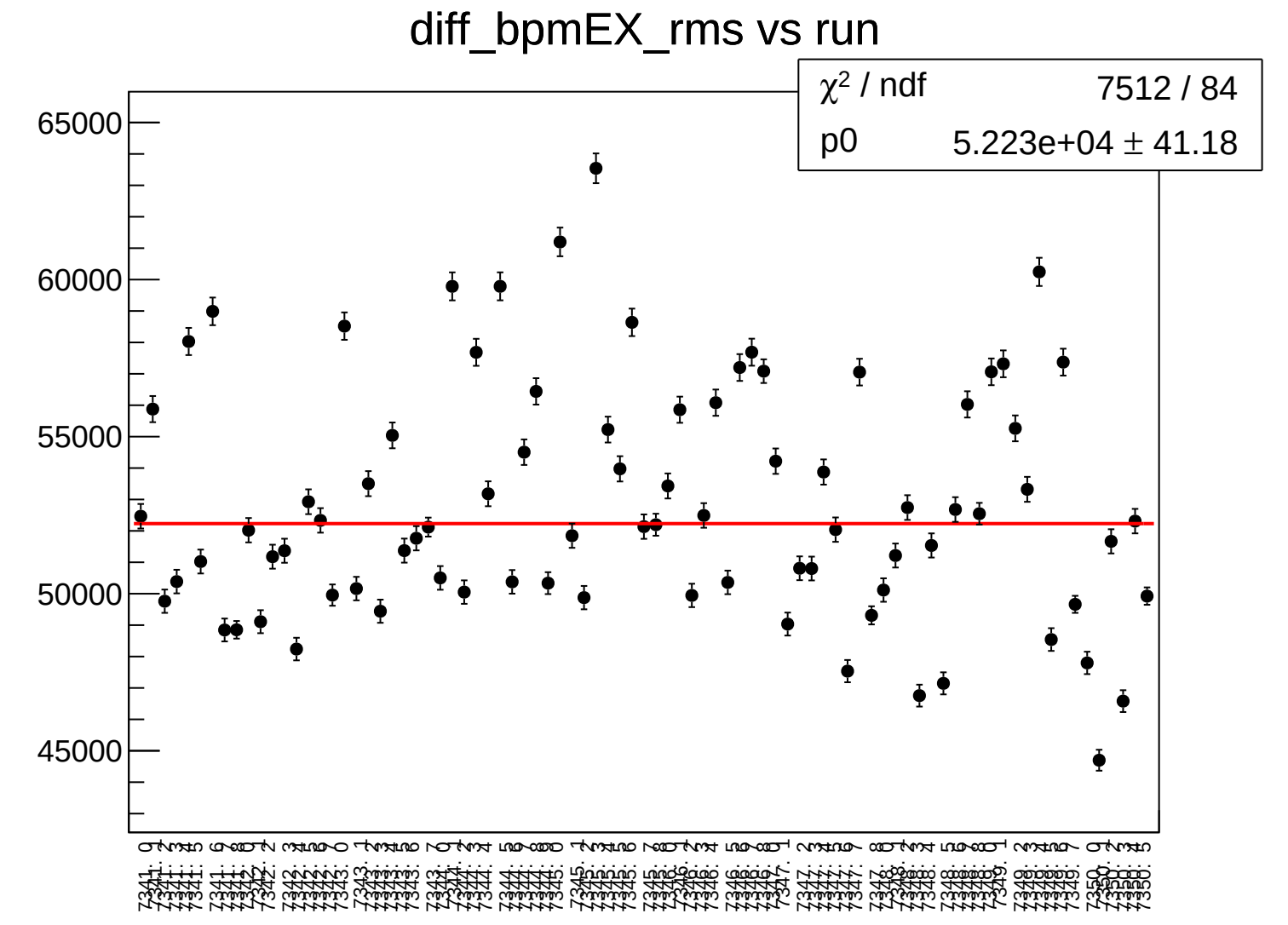

diff_bpmE_mean vs run
χ² / ndf 72.99 / 84
p0 −26.57 ± 58.24
pull
Entries 85
Mean −152.8
Std Dev 0

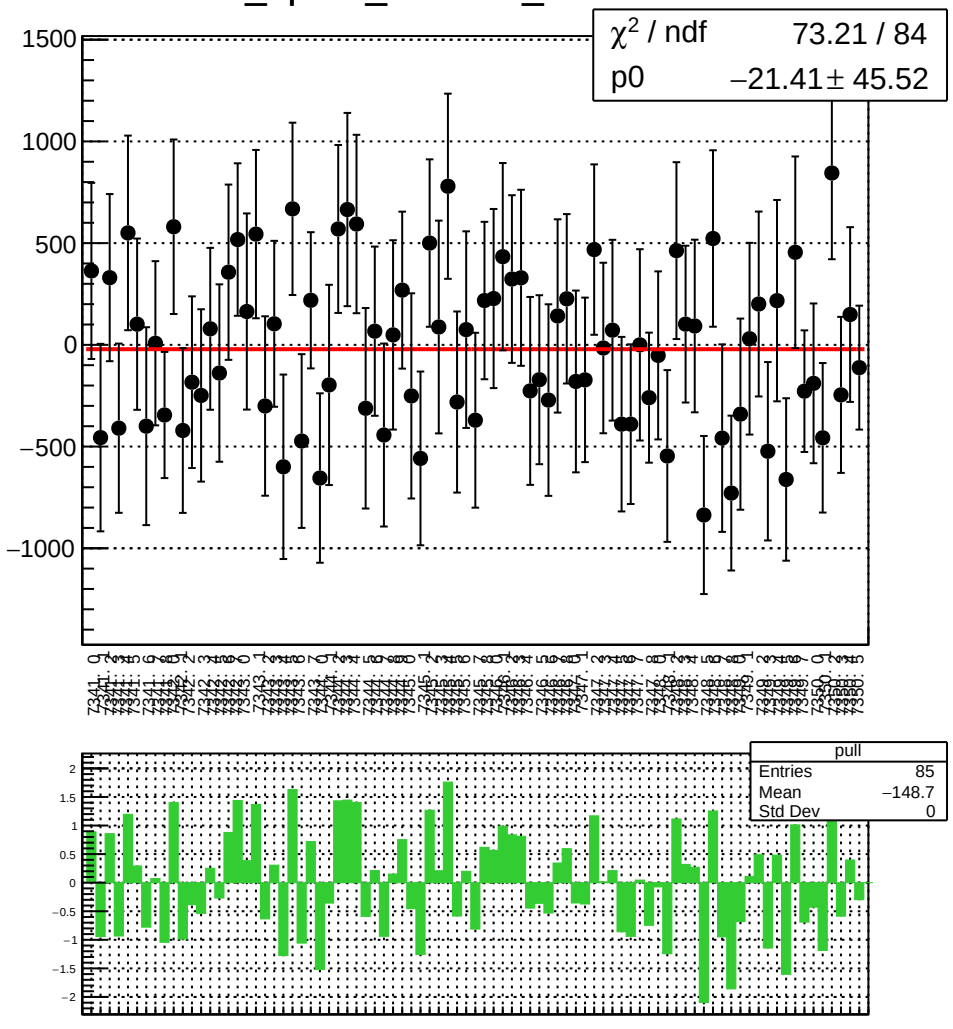

pull1D
Entries 85
Mean 0.01654
Std Dev 0.9265

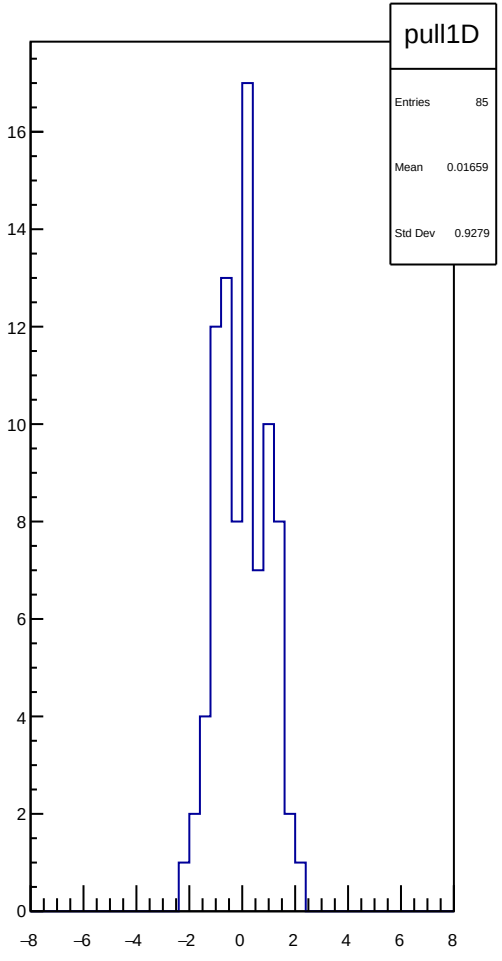

diff_bpmE_rms vs run
χ² / ndf 7512 / 84
p0 5.223e+04 ± 41.18
65000
60000
55000
50000
45000

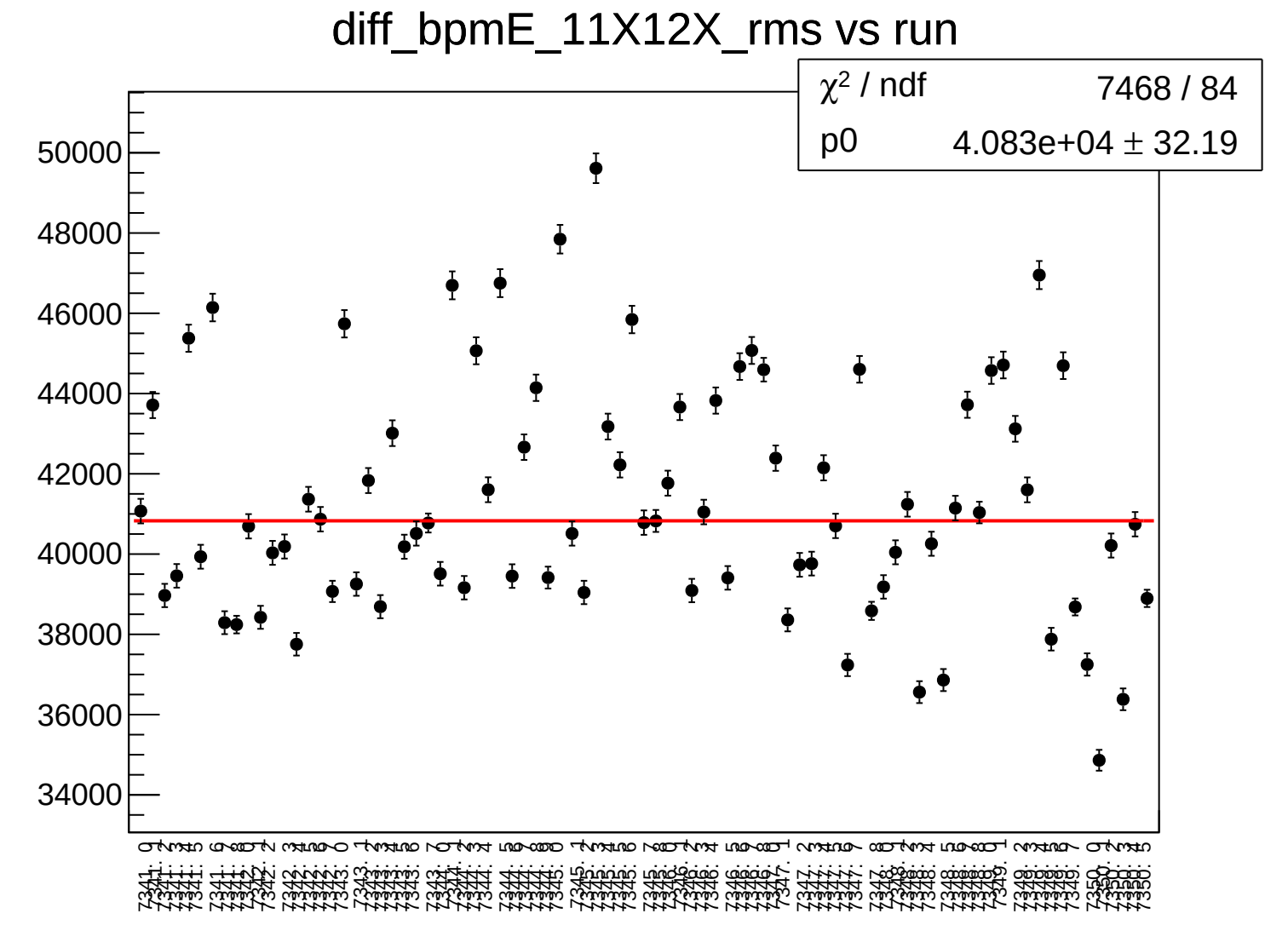

diff_bpmEX_mean vs run
χ² / ndf 72.99 / 84
p0 −26.57 ± 58.24
pull
Entries 85
Mean −152.8
Std Dev 0

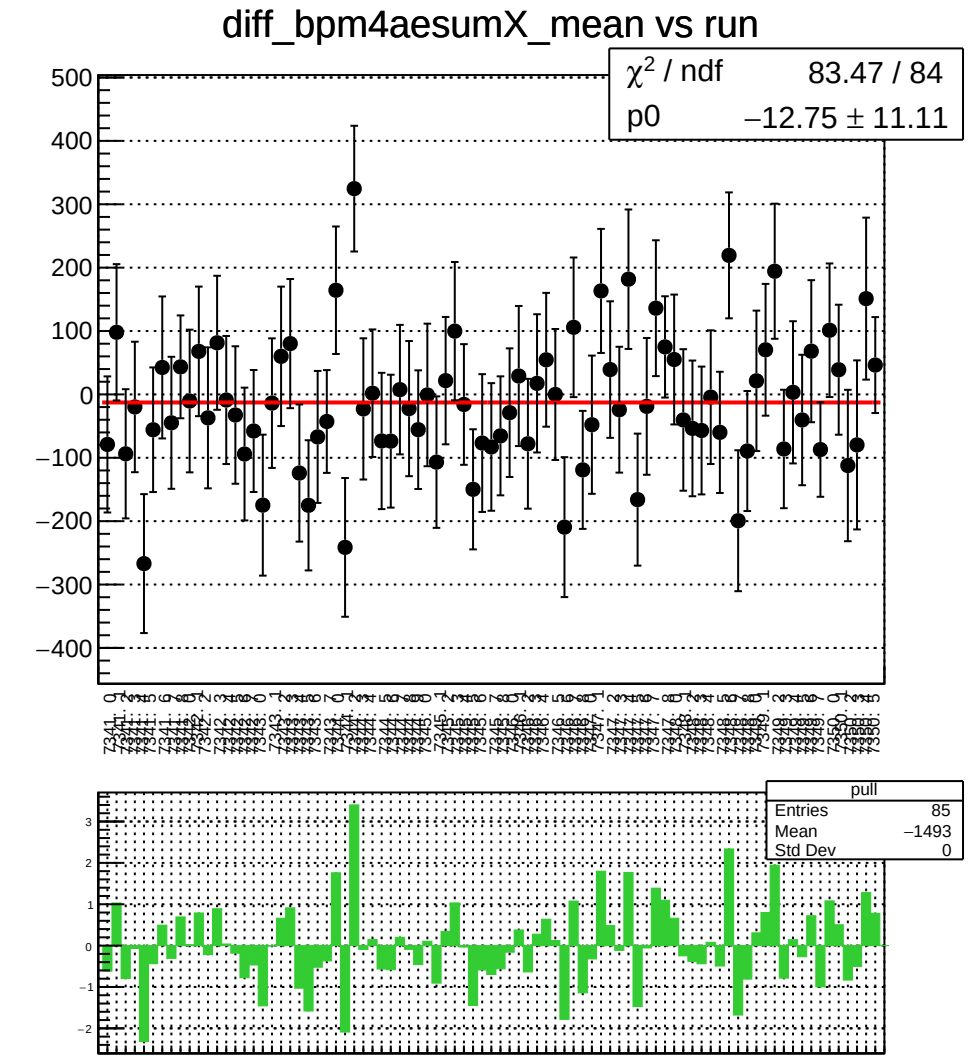

pull1D
Entries 85
Mean 0.01654
Std Dev 0.9265

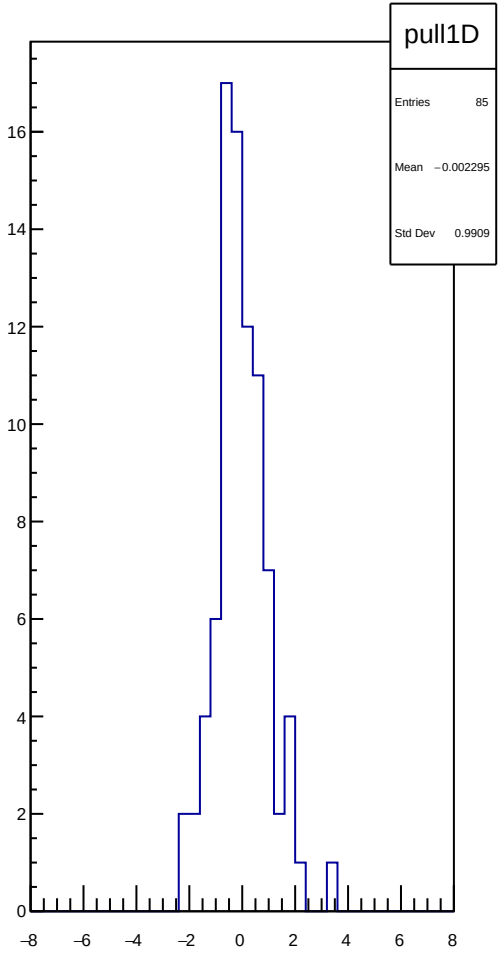

diff_bpmEX_rms vs run
χ² / ndf 7512 / 84
p0 5.223e+04 ± 41.18
65000
60000
55000
50000
45000

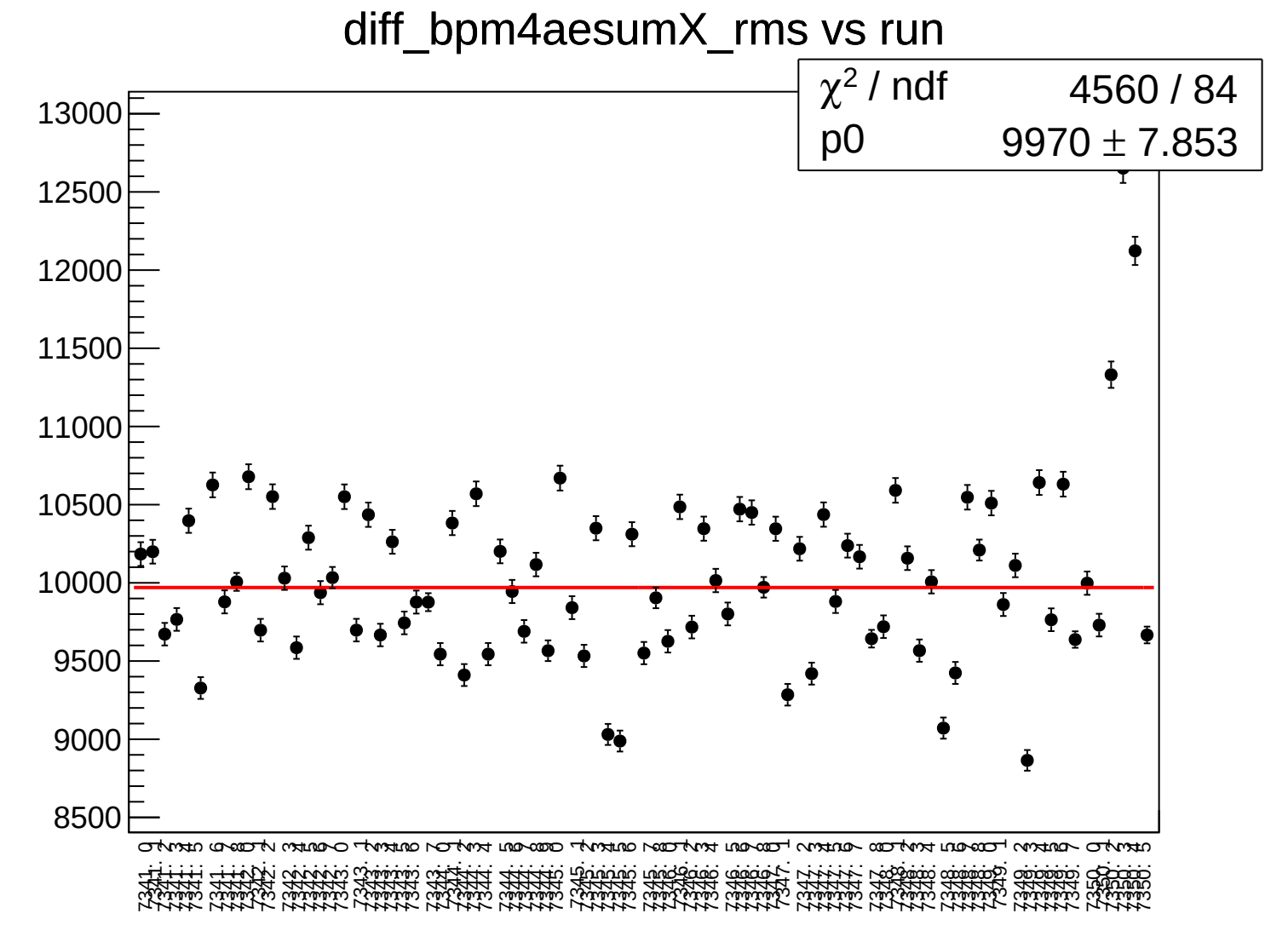

diff_bpmE_11X12X_mean vs run
χ^2 / ndf 73.21 / 84
p0 −21.41 ± 45.52
pull
Entries 85
Mean −148.7
Std Dev 0

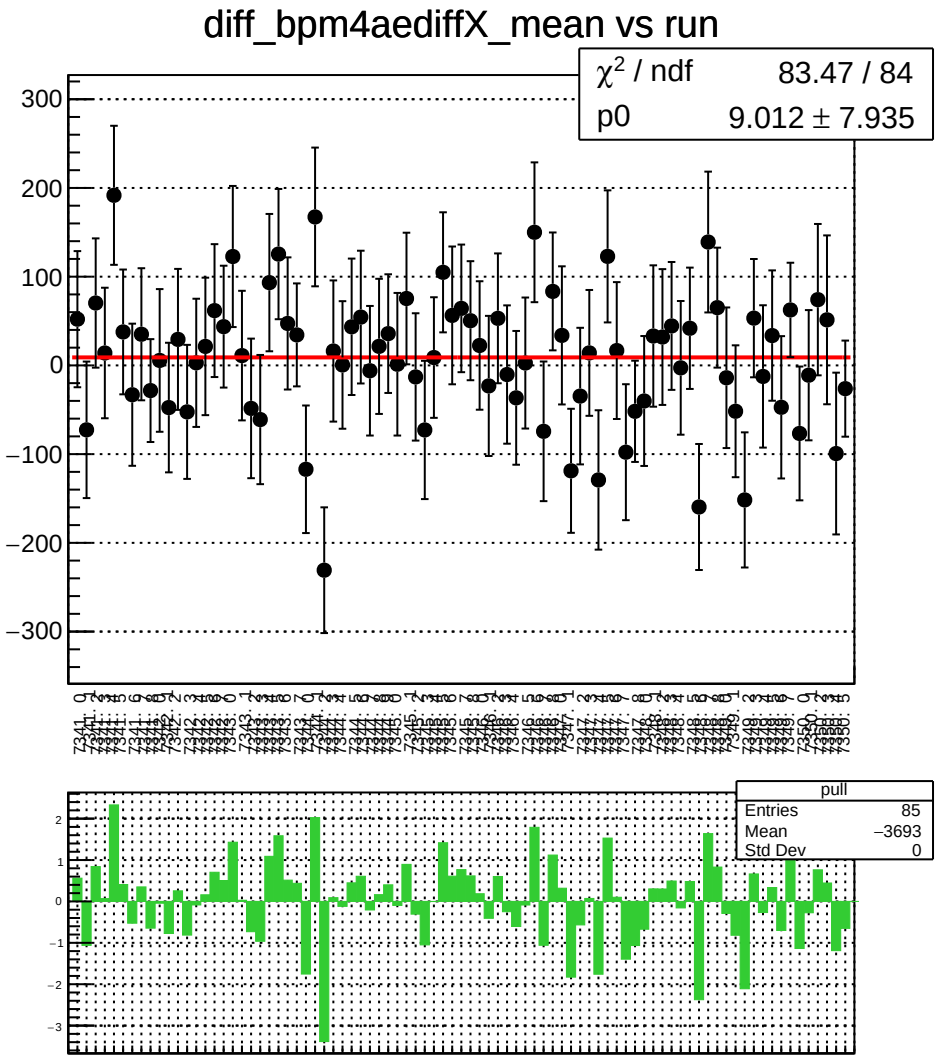

pull1D
Entries 85
Mean 0.01659
Std Dev 0.9279

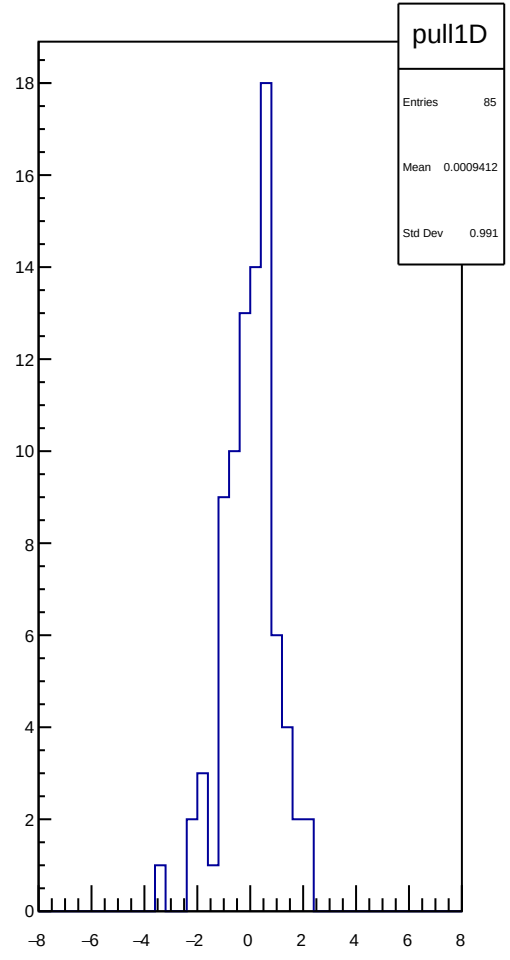

diff_bpmE_11X12X_rms vs run
χ² / ndf 7468 / 84
p0 4.083e+04 ± 32.19
50000
48000
46000
44000
42000
40000
38000
36000
34000

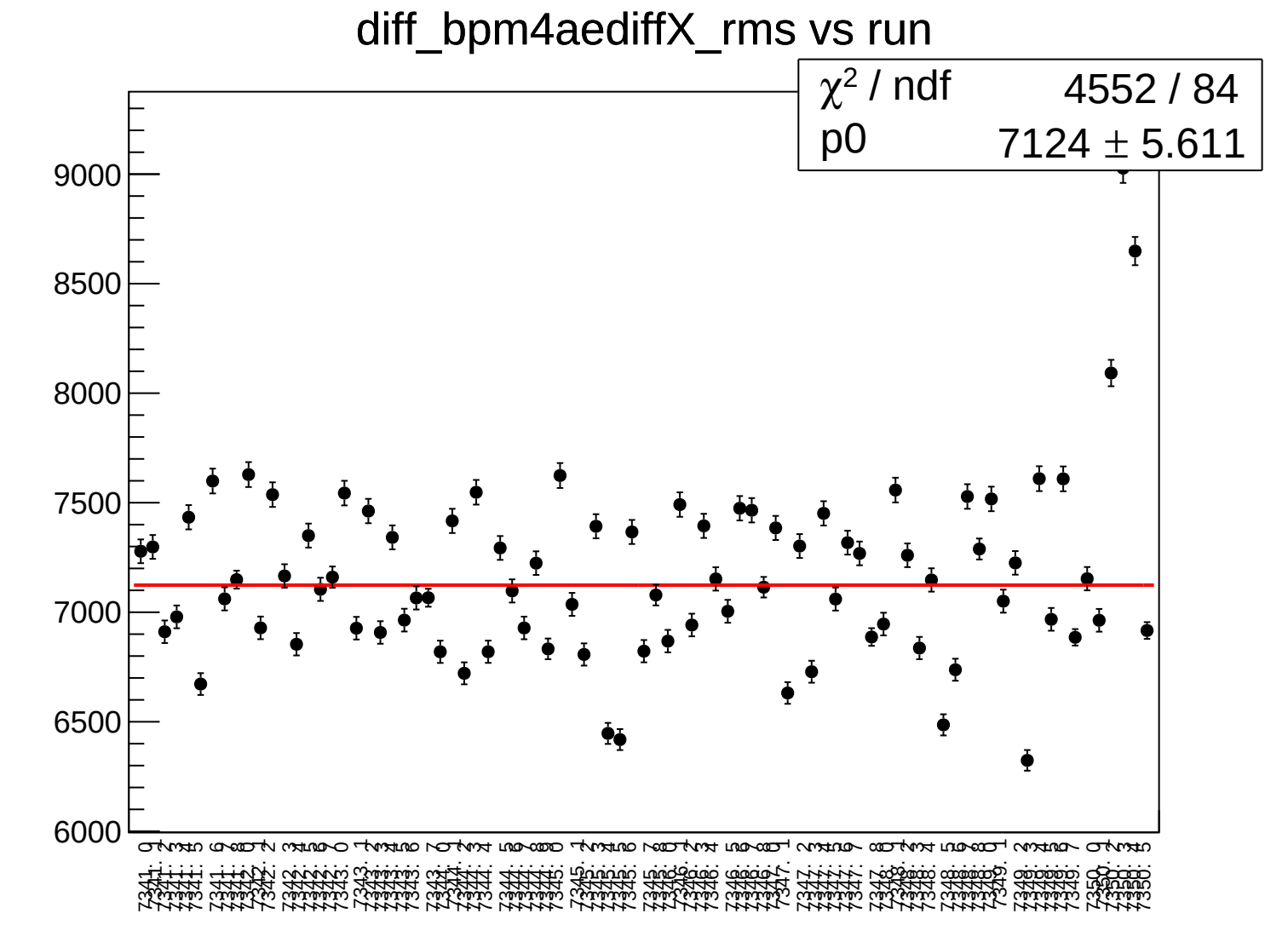

diff_bpm4aesumX_mean vs run
χ² / ndf 83.47 / 84
p0 −12.75 ± 11.11
pull
Entries 85
Mean −1493
Std Dev 0

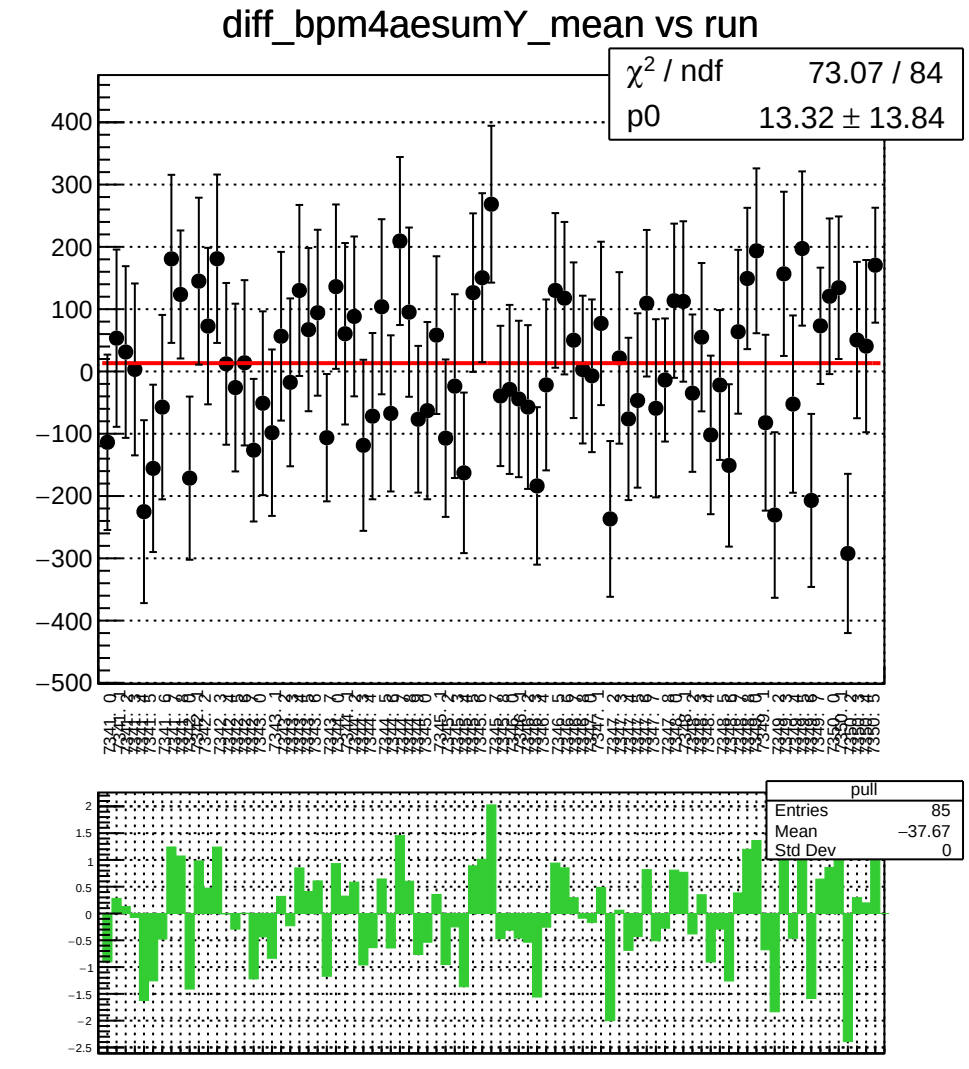

pull1D
Entries 85
Mean −0.002295
Std Dev 0.9909

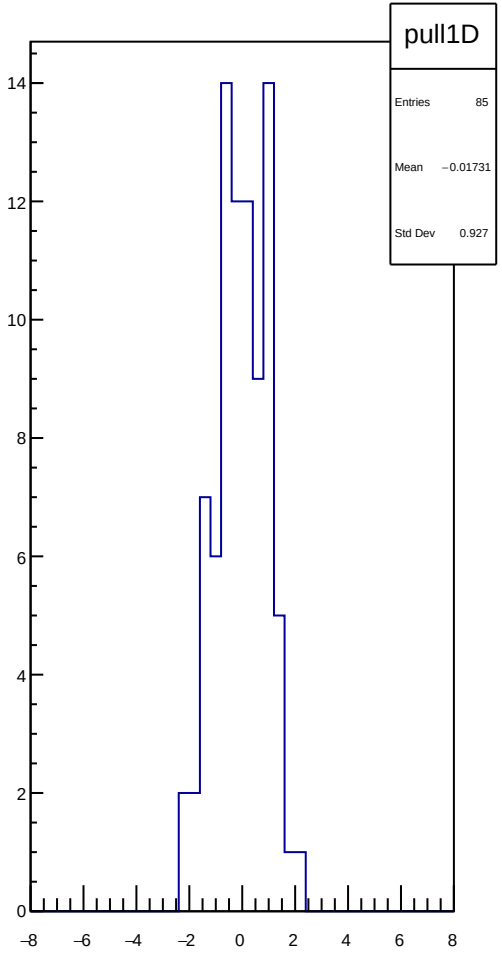

diff_bpm4aesumX_rms vs run
χ² / ndf 4560 / 84
p0 9970 ± 7.853
13000
12500
12000
11500
11000
10500
10000
9500
9000
8500

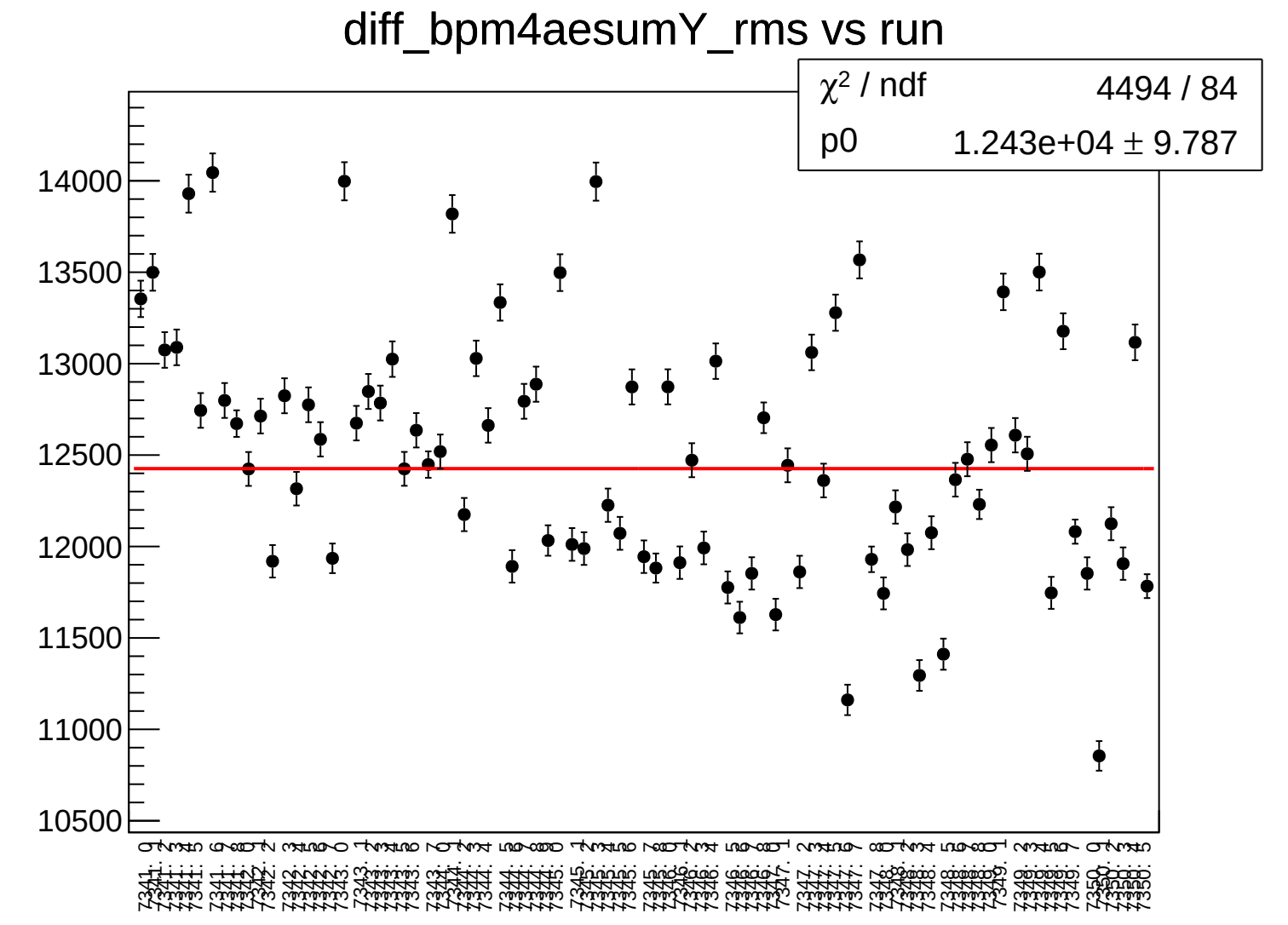

diff_bpm4aediffX_mean vs run
χ² / ndf 83.47 / 84
p0 9.012 ± 7.935
pull
Entries 85
Mean −3693
Std Dev 0

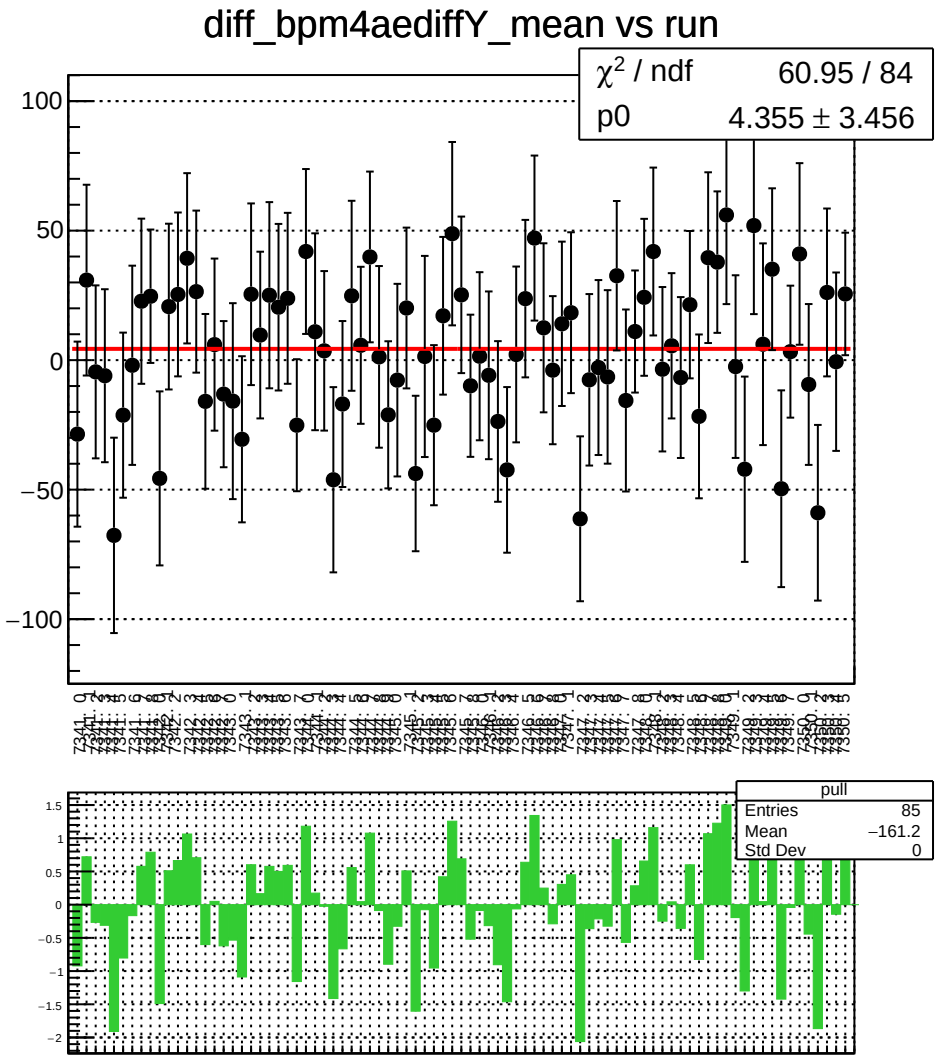

pull1D
Entries 85
Mean 0.0009412
Std Dev 0.991

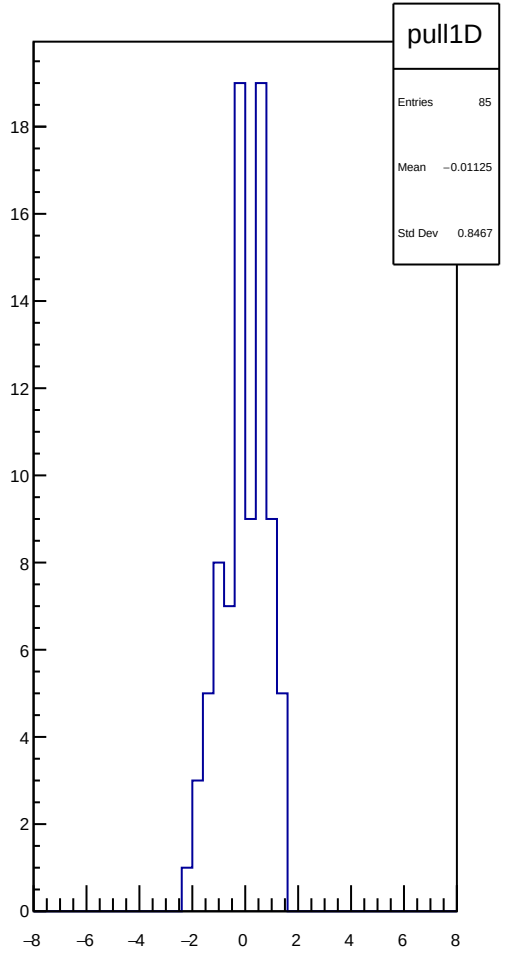

diff_bpm4aediffX_rms vs run
χ² / ndf 4552 / 84
p0 7124 ± 5.611
9000
8500
8000
7500
7000
6500
6000

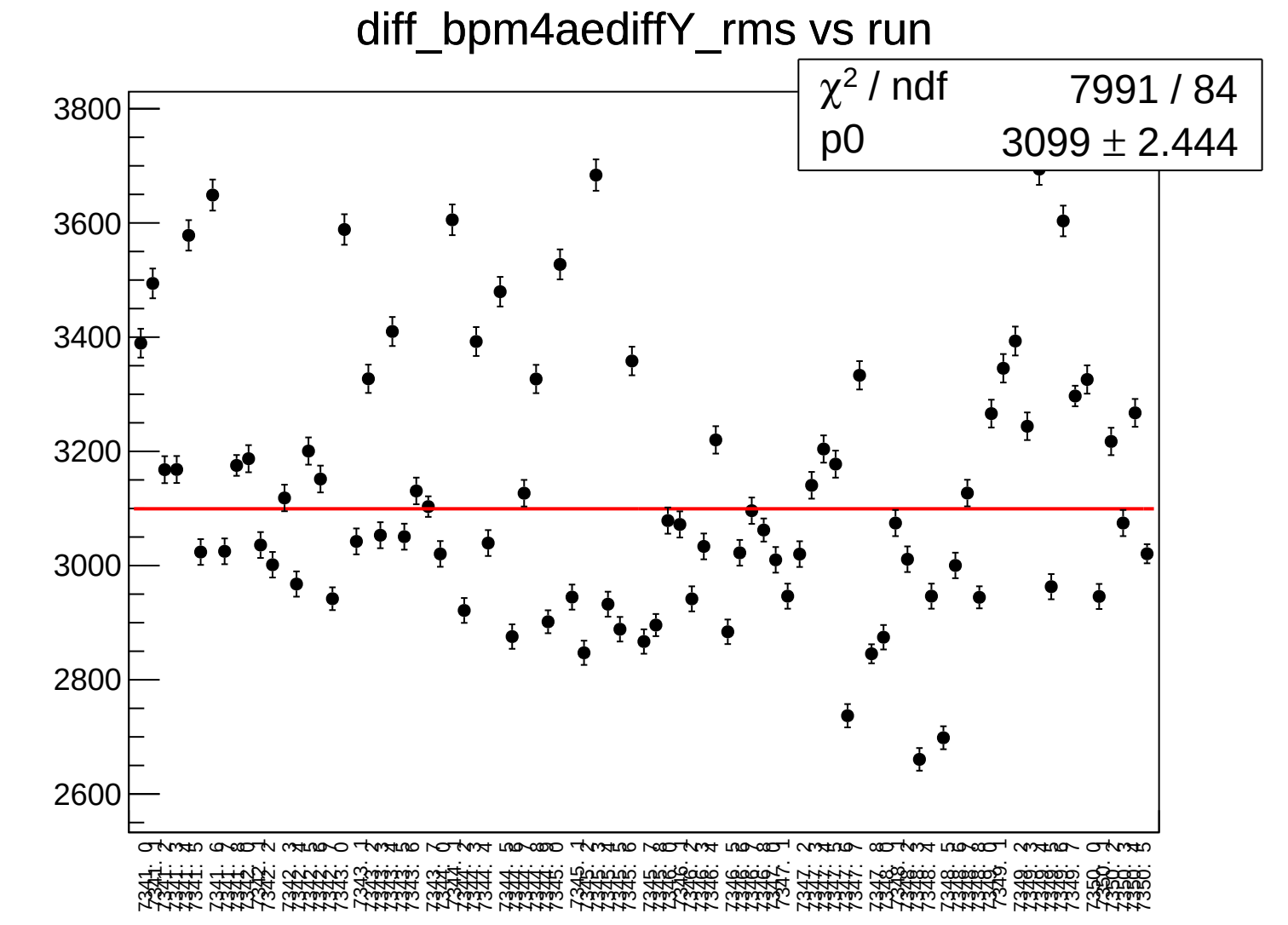

diff_bpm4aesumY_mean vs run
χ² / ndf 73.07 / 84
p0 13.32 ± 13.84
pull
Entries 85
Mean −37.67
Std Dev 0

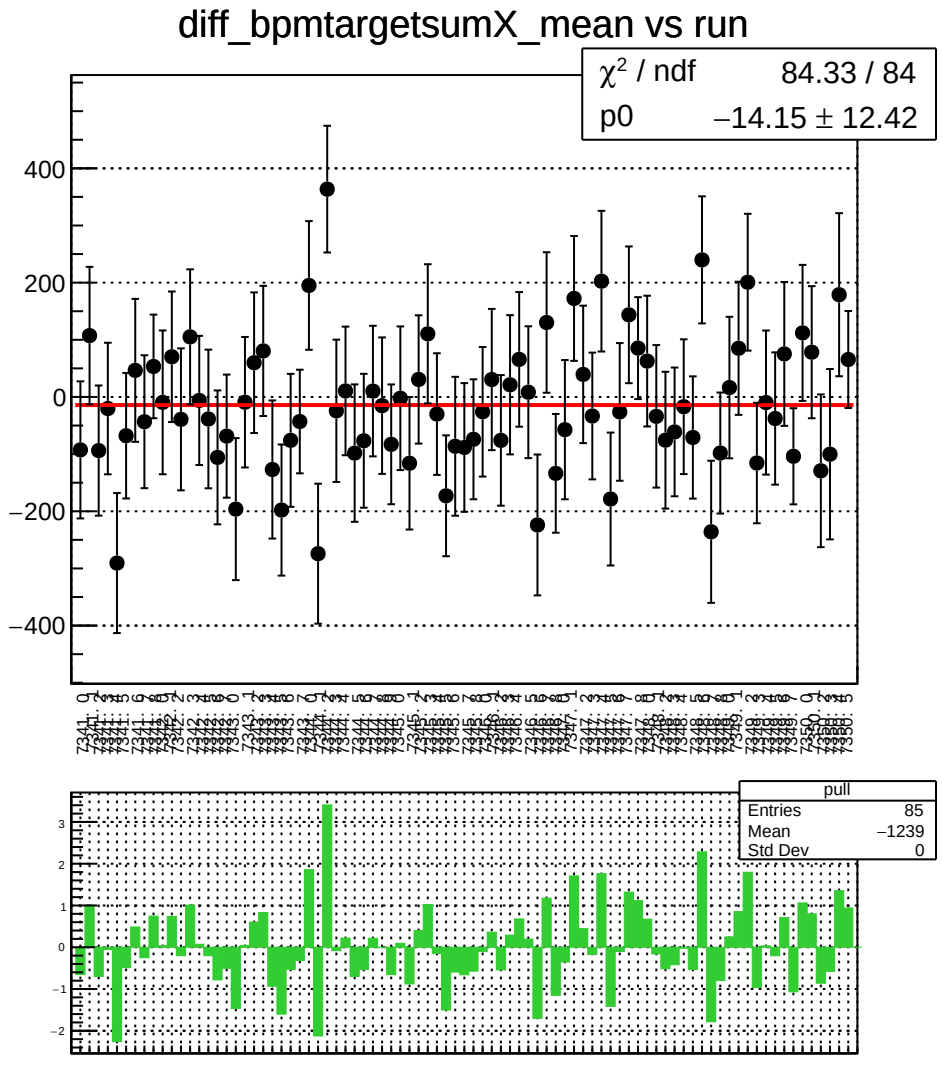

pull1D
Entries 85
Mean −0.01731
Std Dev 0.927

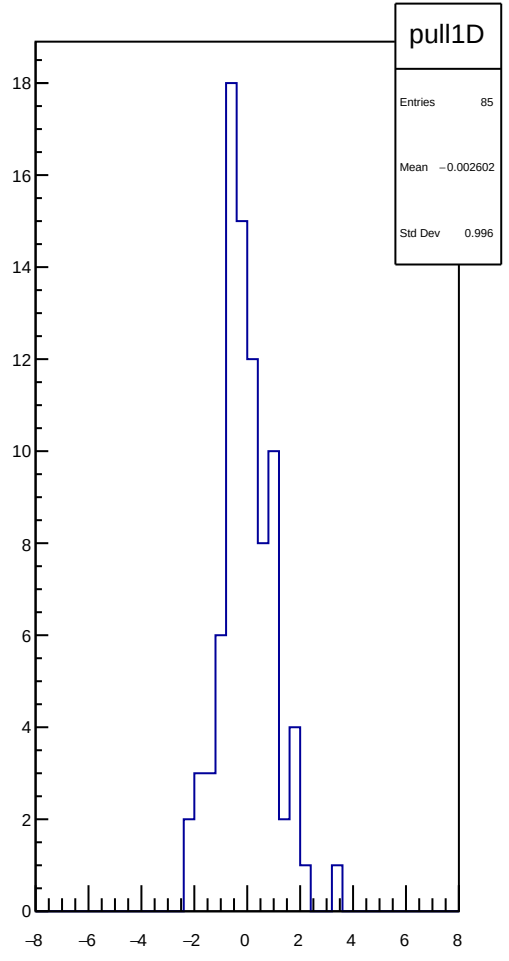

diff_bpm4aesumY_rms vs run
χ² / ndf 4494 / 84
p0 1.243e+04 ± 9.787
14000
13500
13000
12500
12000
11500
11000
10500

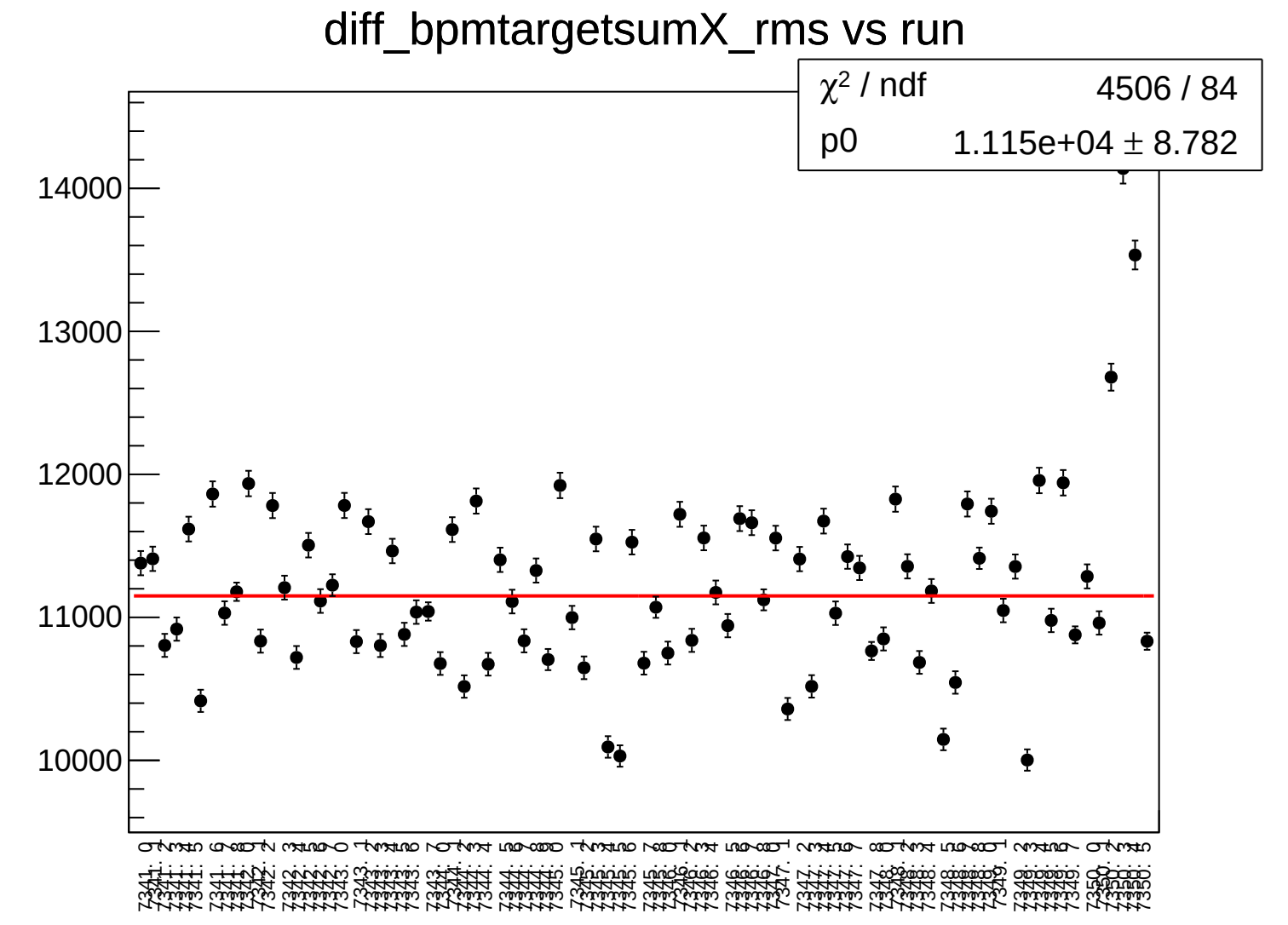

diff_bpm4aediffY_mean vs run
χ^2 / ndf 60.95 / 84
p0 4.355 ± 3.456
pull
Entries 85
Mean −161.2
Std Dev 0

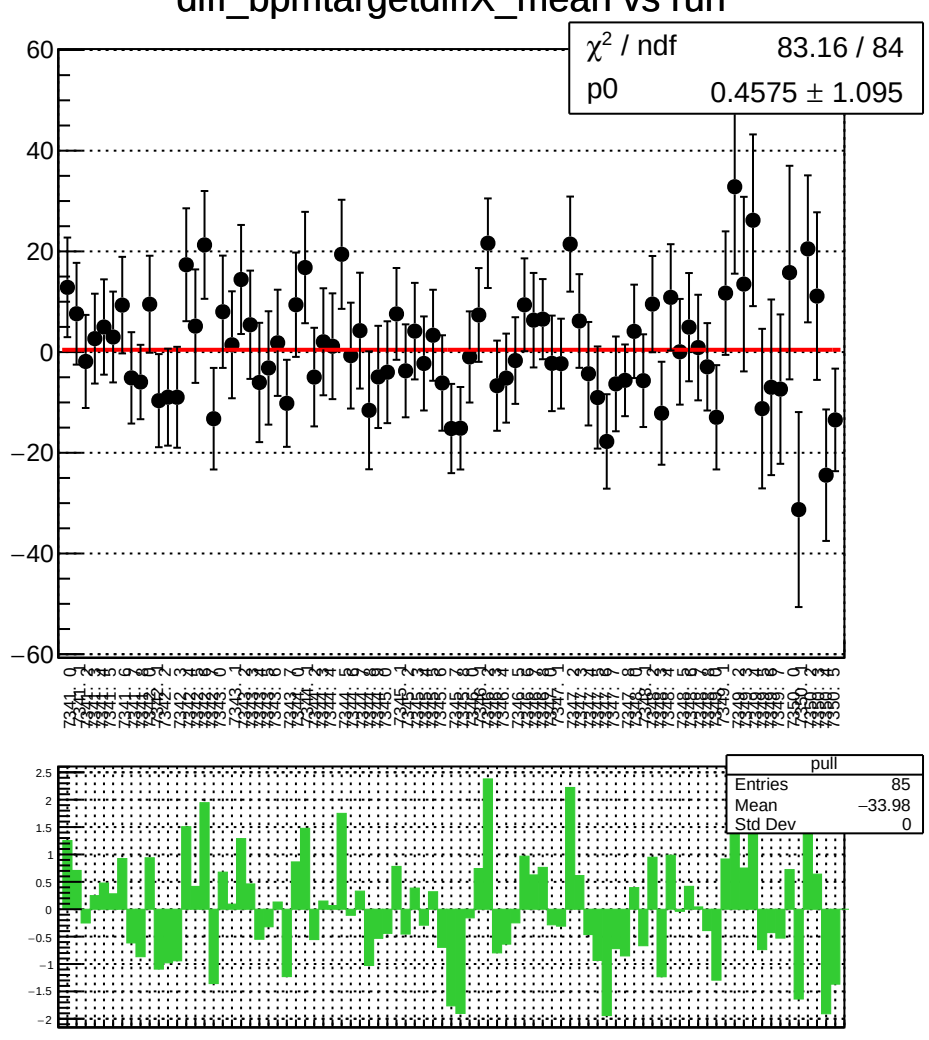

pull1D
Entries 85
Mean −0.01125
Std Dev 0.8467

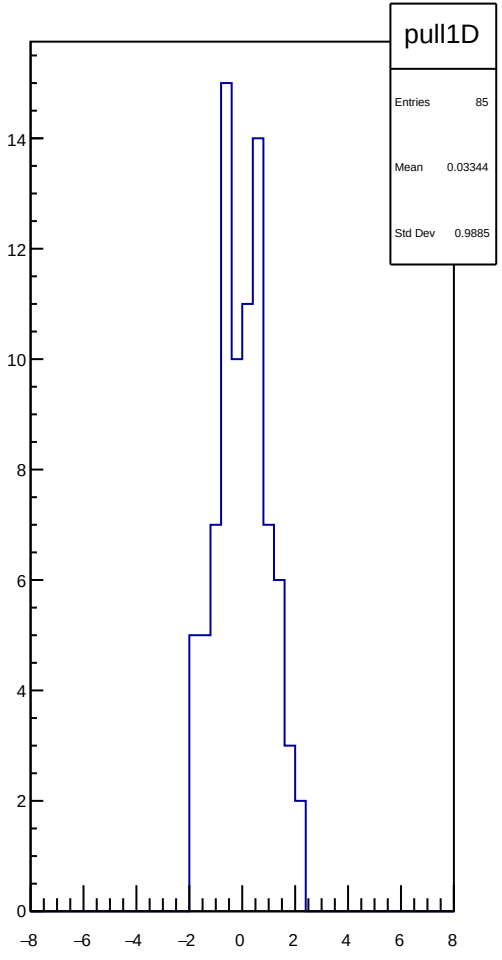

diff_bpm4aediffY_rms vs run
χ² / ndf 7991 / 84
p0 3099 ± 2.444
3800
3600
3400
3200
3000
2800
2600

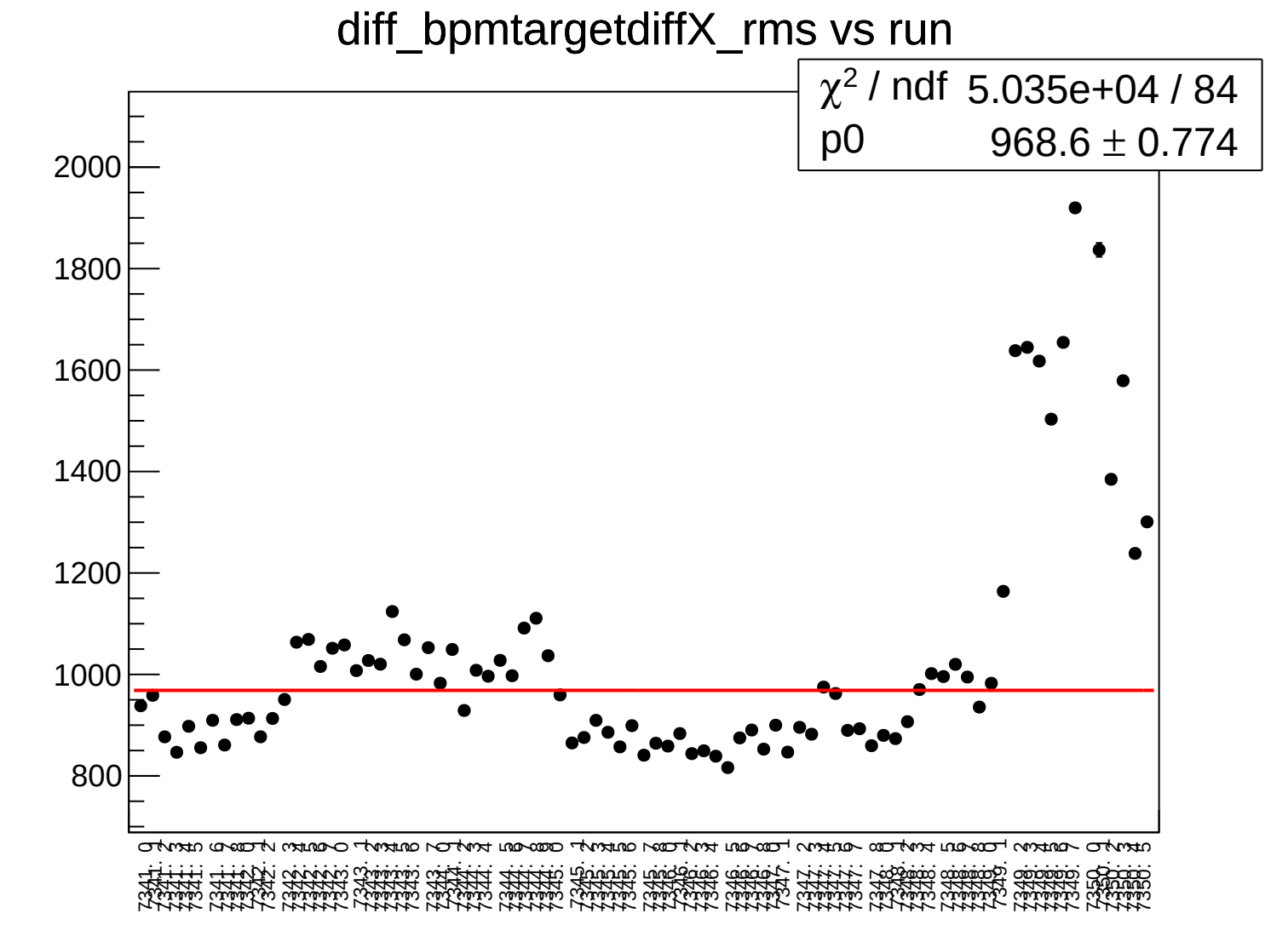

diff_bpmtargetsumX_mean vs run
χ² / ndf 84.33 / 84
p0 −14.15 ± 12.42
400
200
0
−200
−400
pull
Entries 85
Mean −1239
Std Dev 0
3
2
1
0
−1
−2

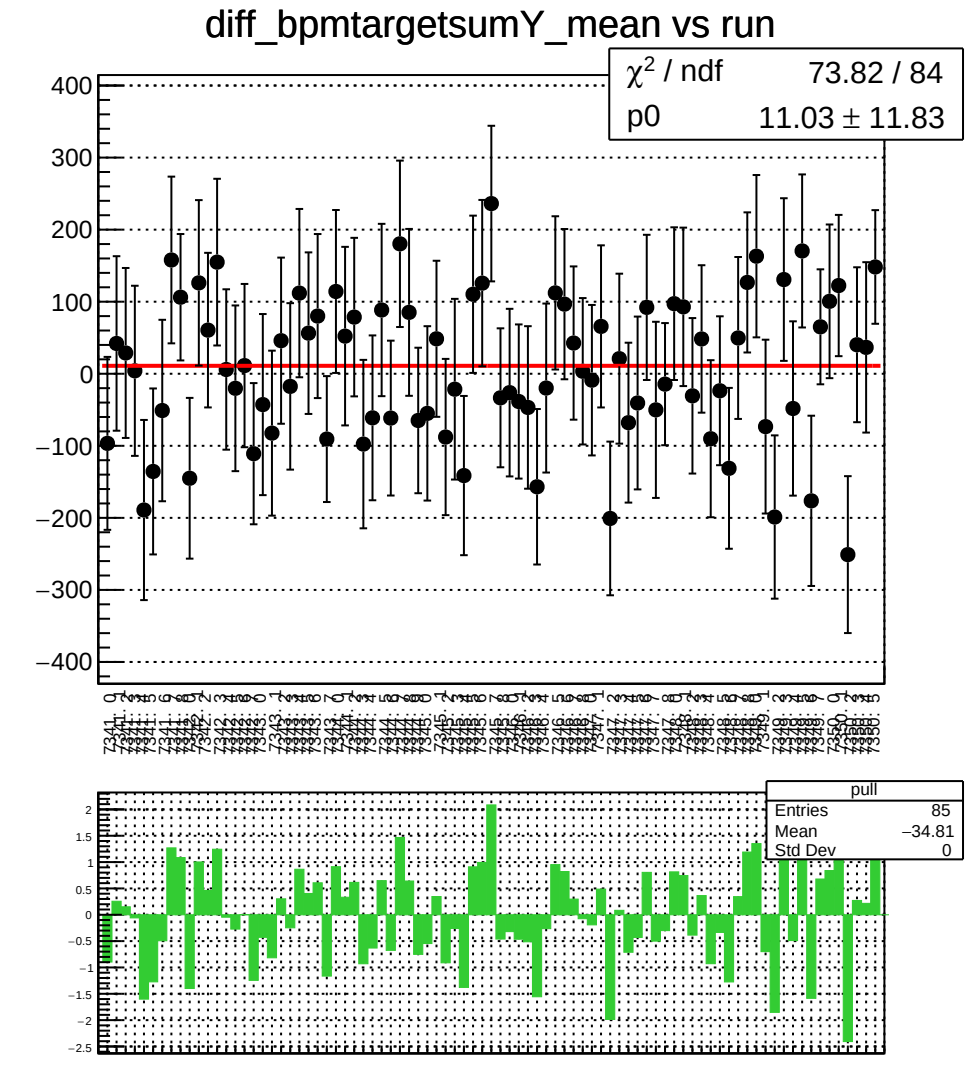

pull1D
Entries 85
Mean −0.002602
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

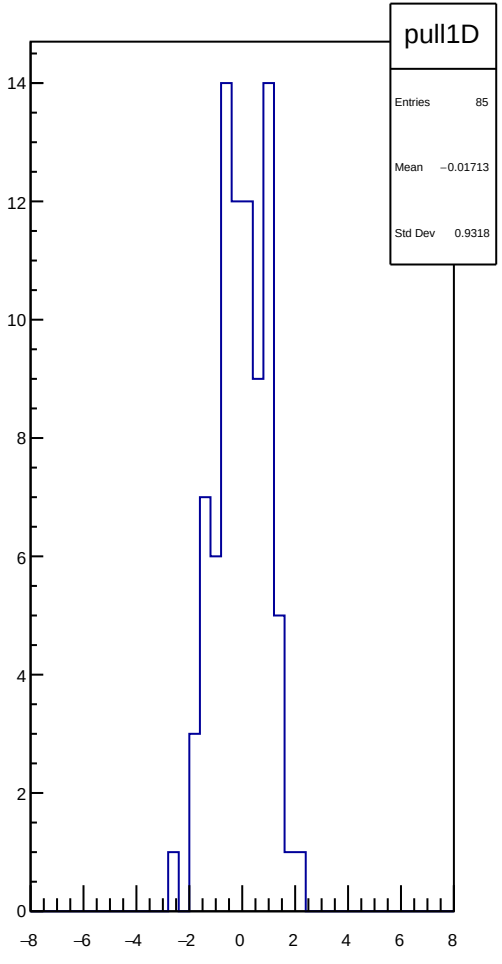

diff_bpmtargetsumX_rms vs run
χ² / ndf 4506 / 84
p0 1.115e+04 ± 8.782
14000
13000
12000
11000
10000

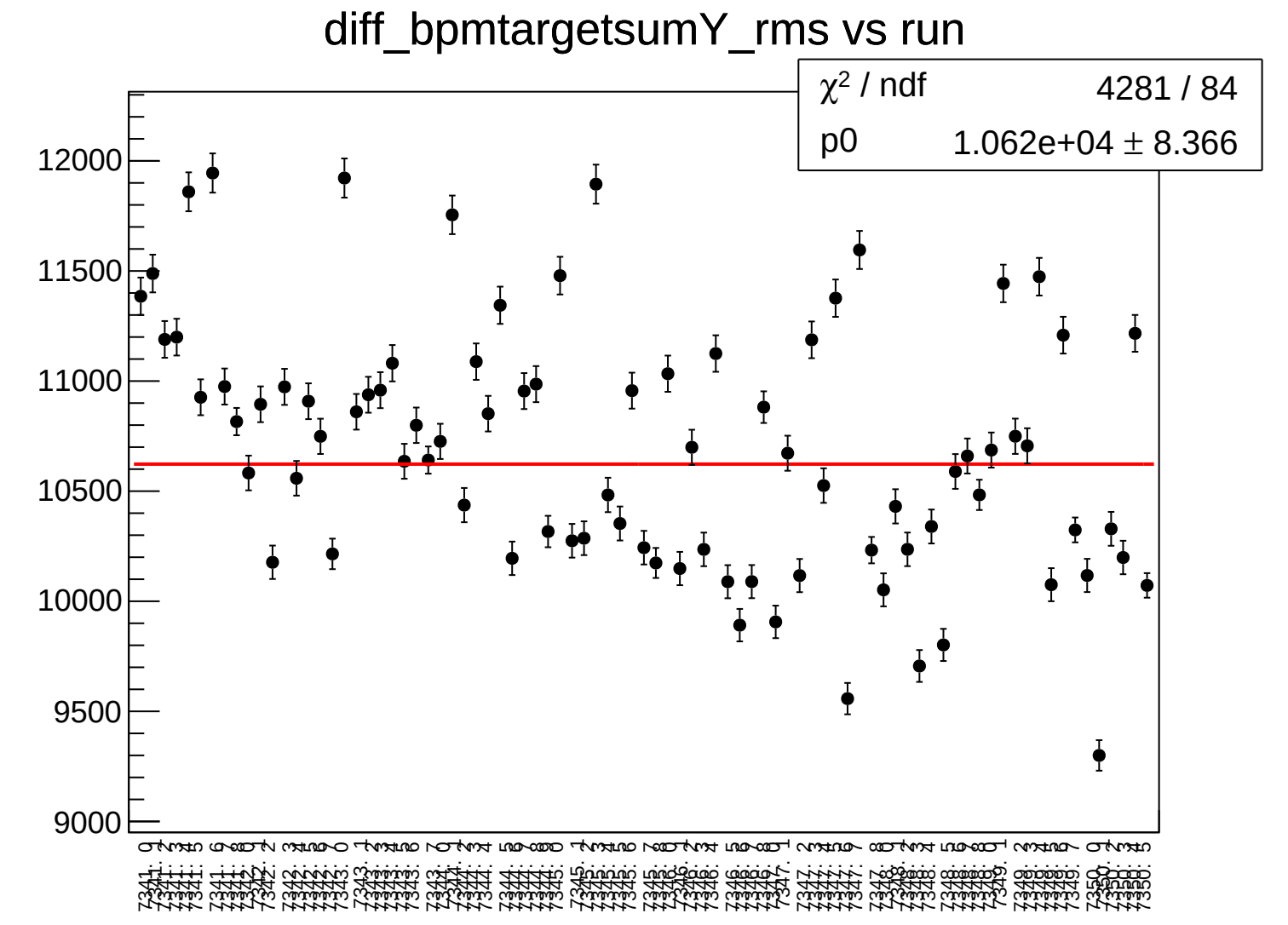

diff_bpmtargetdiffX_mean vs run
χ² / ndf 83.16 / 84
p0 0.4575 ± 1.095
pull
Entries 85
Mean −33.98
Std Dev 0

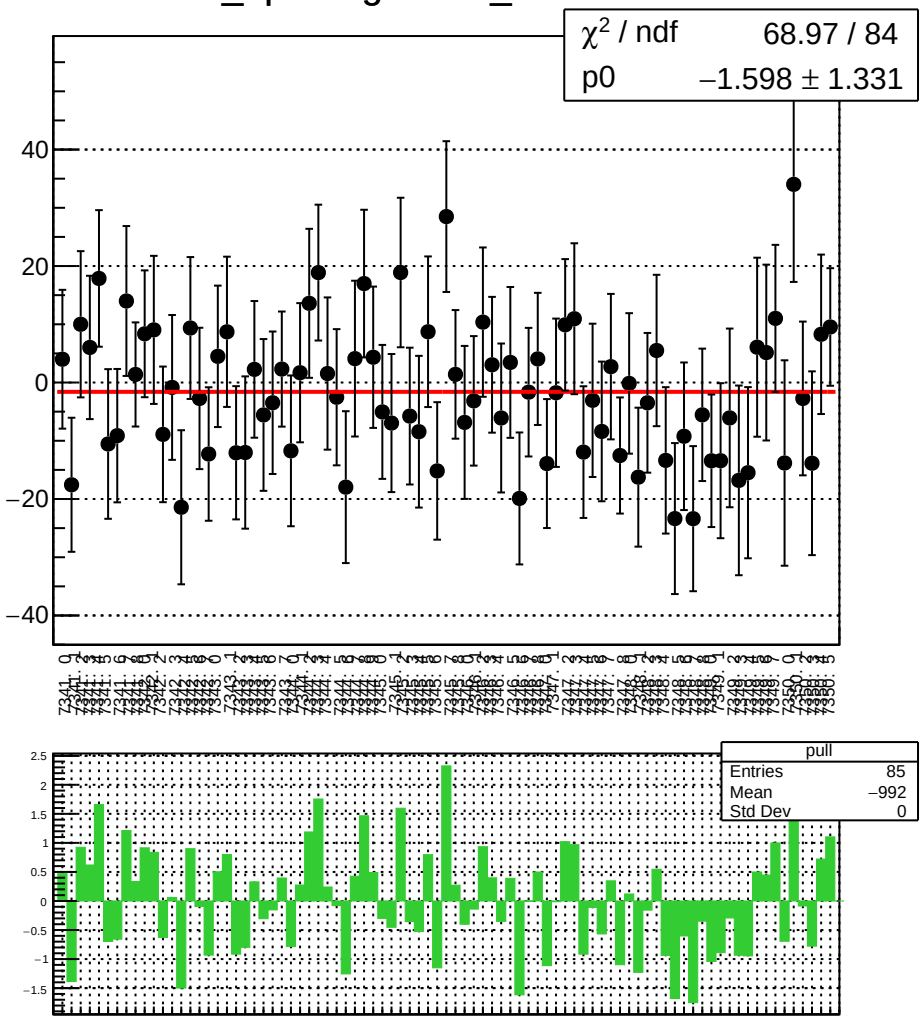

pull1D
Entries 85
Mean 0.03344
Std Dev 0.9885

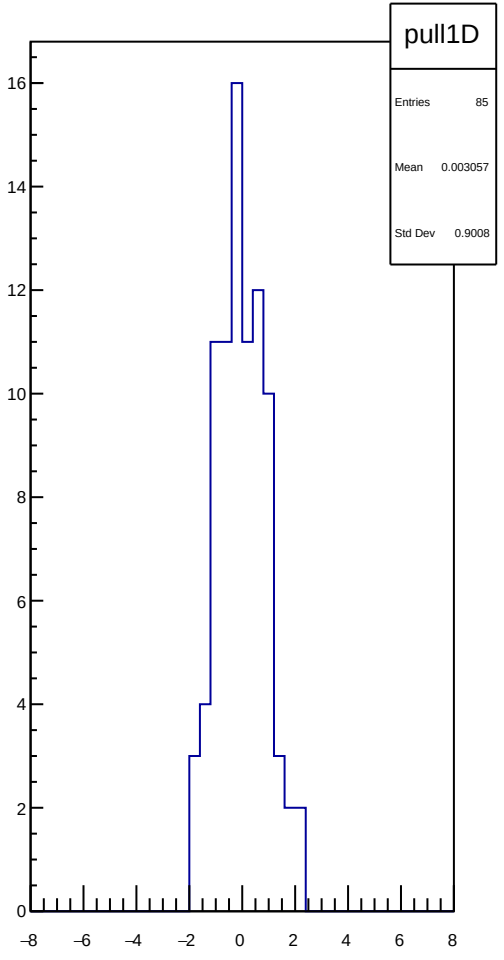

diff_bpmtargetdiffX_rms vs run
χ² / ndf 5.035e+04 / 84
p0 968.6 ± 0.774
2000
1800
1600
1400
1200
1000
800

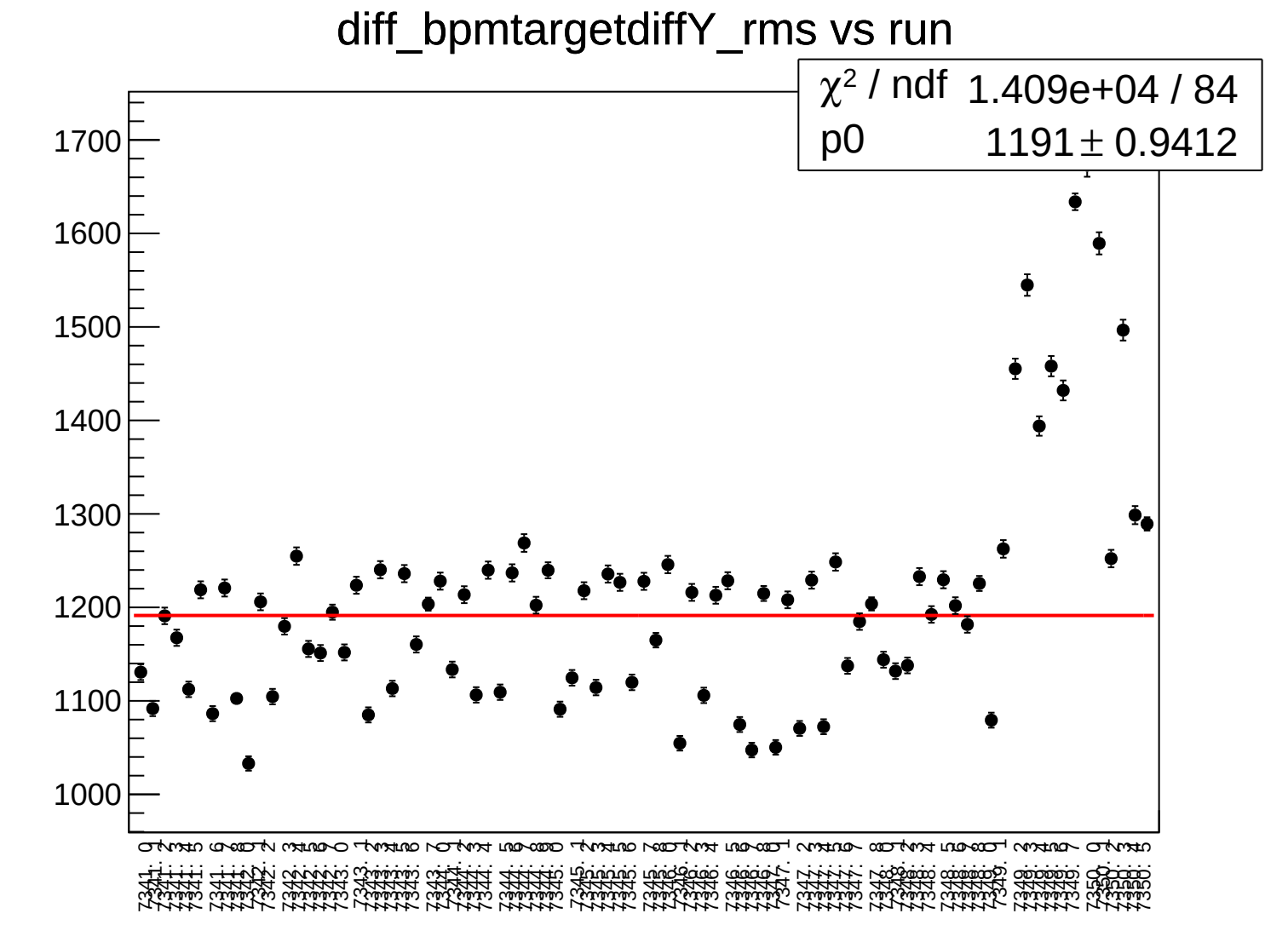

diff_bpmtargetsumY_mean vs run
χ² / ndf 73.82 / 84
p0 11.03 ± 11.83
pull
Entries 85
Mean −34.81
Std Dev 0

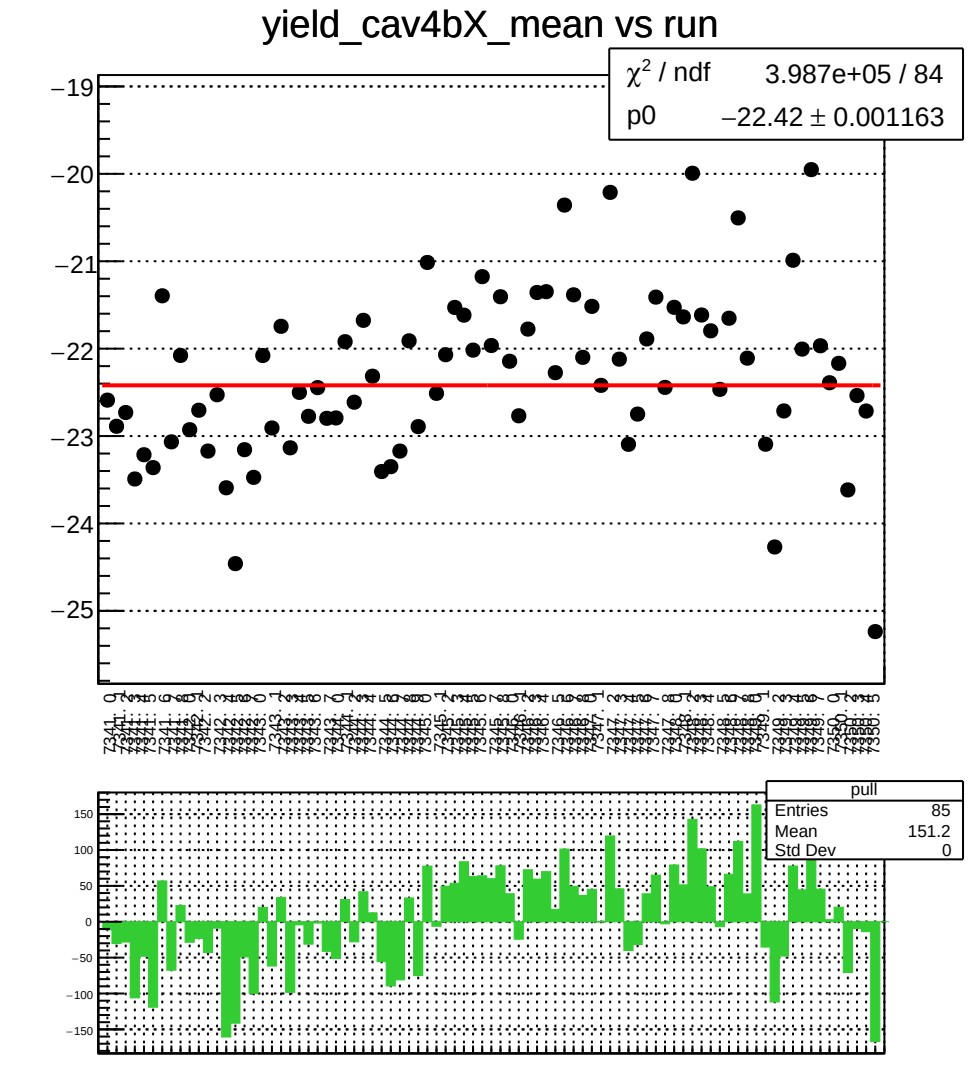

pull1D
Entries 85
Mean −0.01713
Std Dev 0.9318

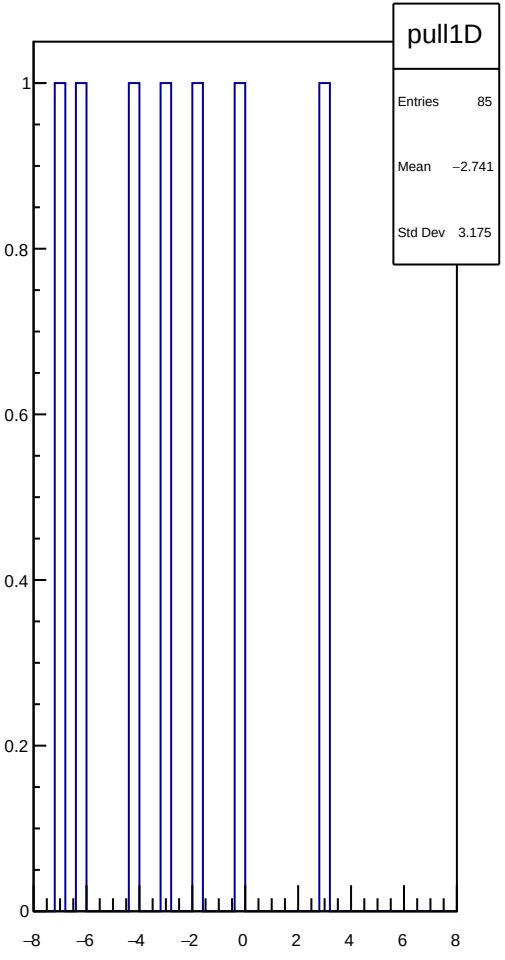

diff_bpmtargetsumY_rms vs run
χ² / ndf 4281 / 84
p0 1.062e+04 ± 8.366
12000
11500
11000
10500
10000
9500
9000

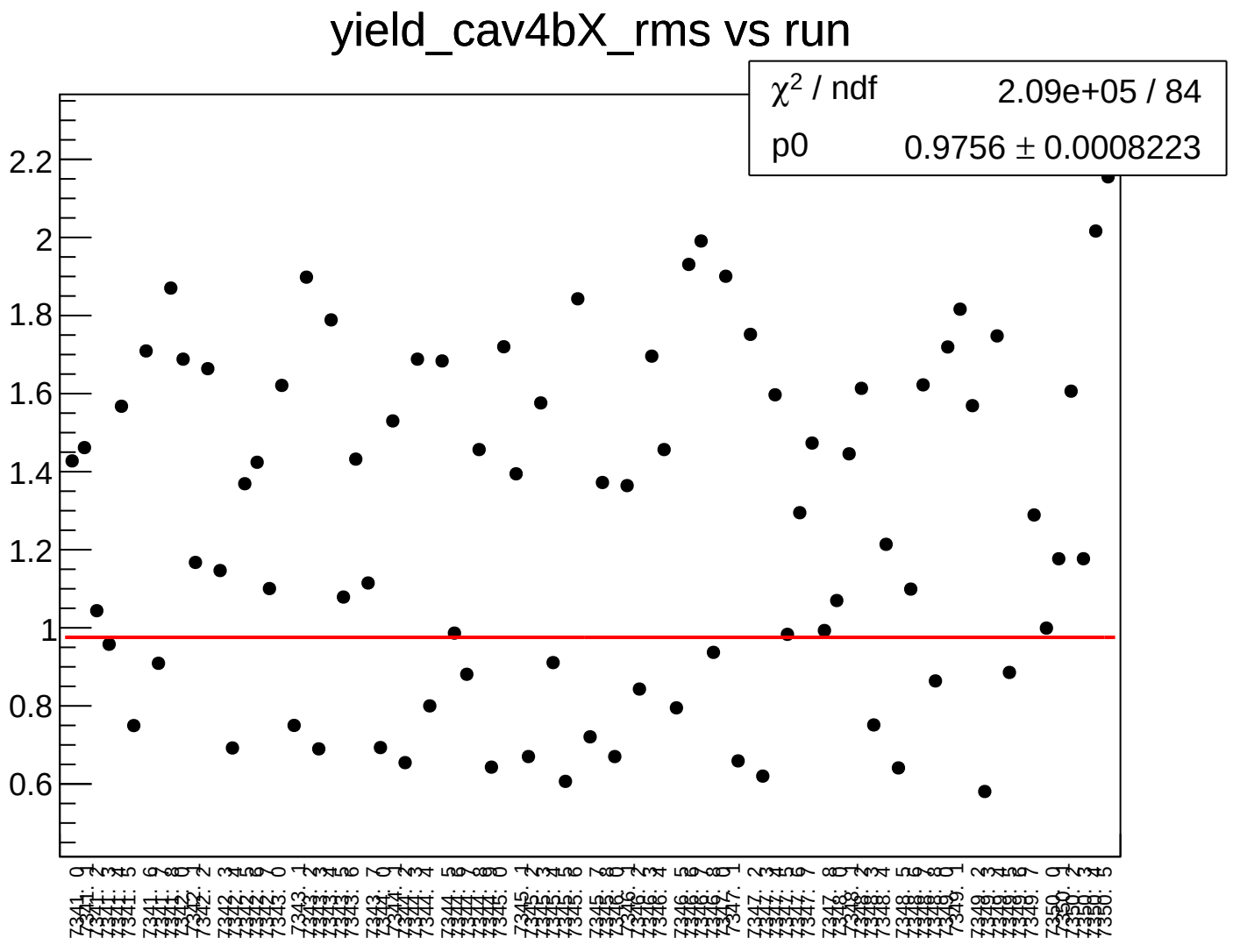

diff_bpmtargetdiffY_mean vs run
χ² / ndf 68.97 / 84
p0 −1.598 ± 1.331
pull
Entries 85
Mean −992
Std Dev 0

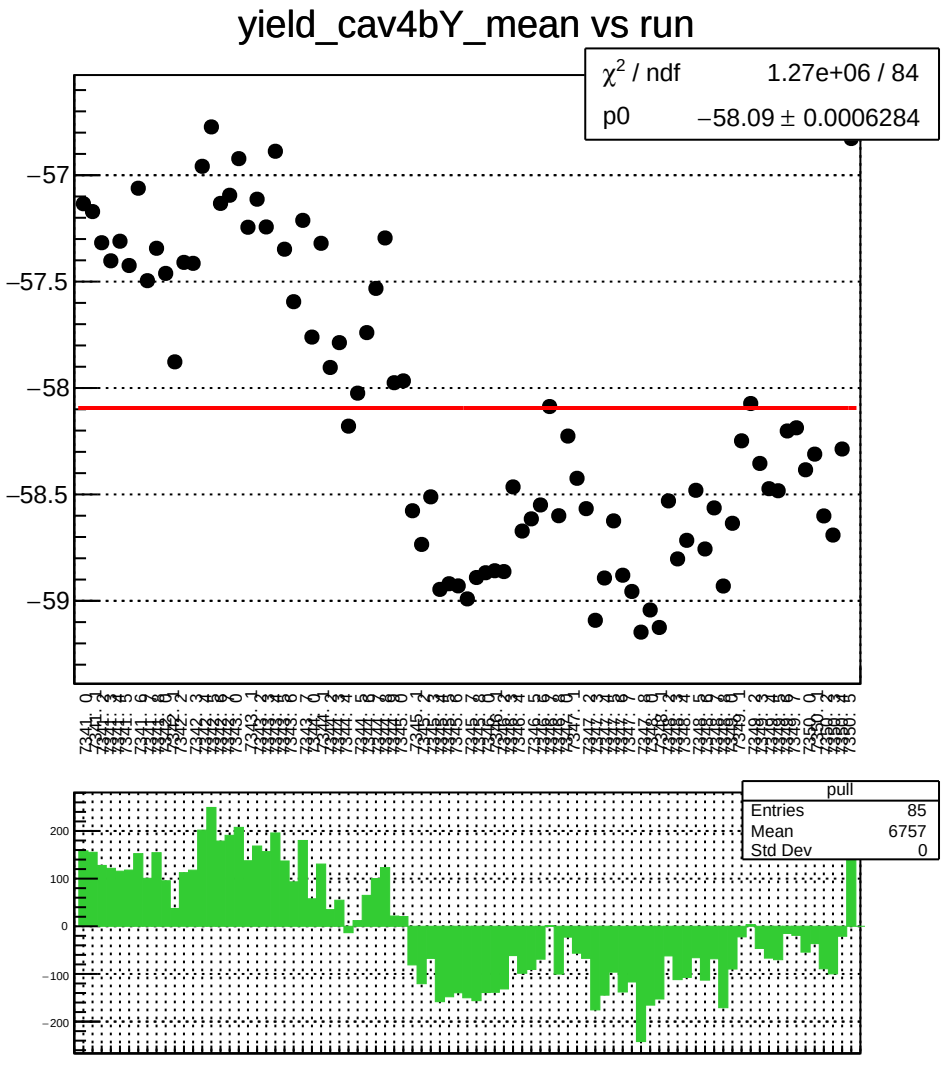

pull1D
Entries 85
Mean 0.003057
Std Dev 0.9008

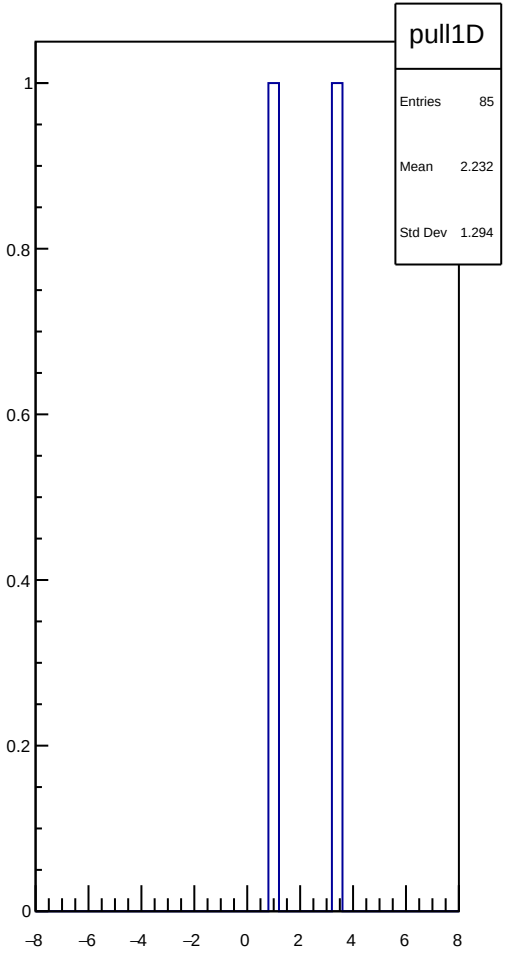

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.409e+04 / 84
p0 1191 ± 0.9412
1700
1600
1500
1400
1300
1200
1100
1000

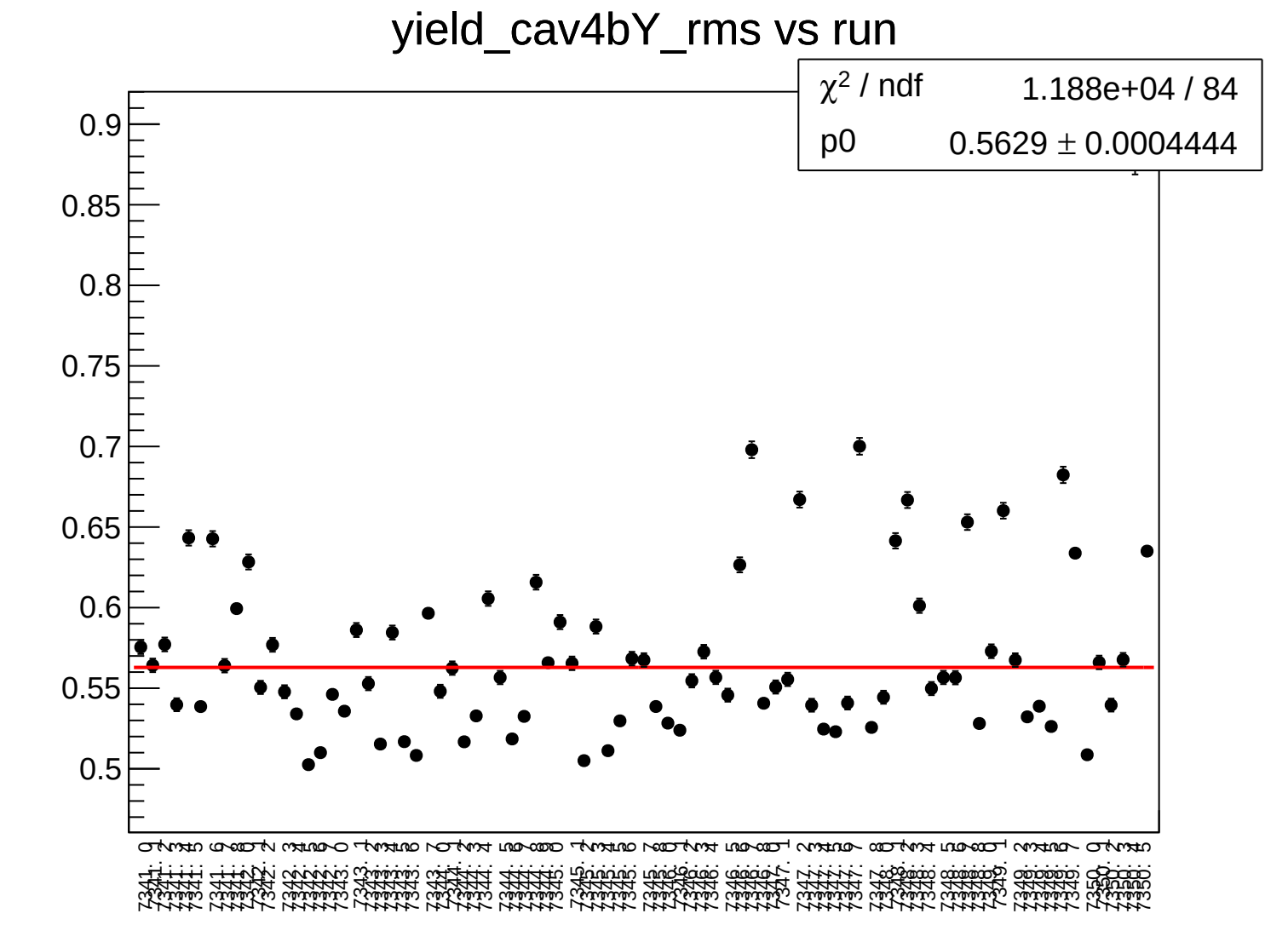

yield_cav4bX_mean vs run
χ² / ndf 3.987e+05 / 84
p0 −22.42 ± 0.001163
pull
Entries 85
Mean 151.2
Std Dev 0

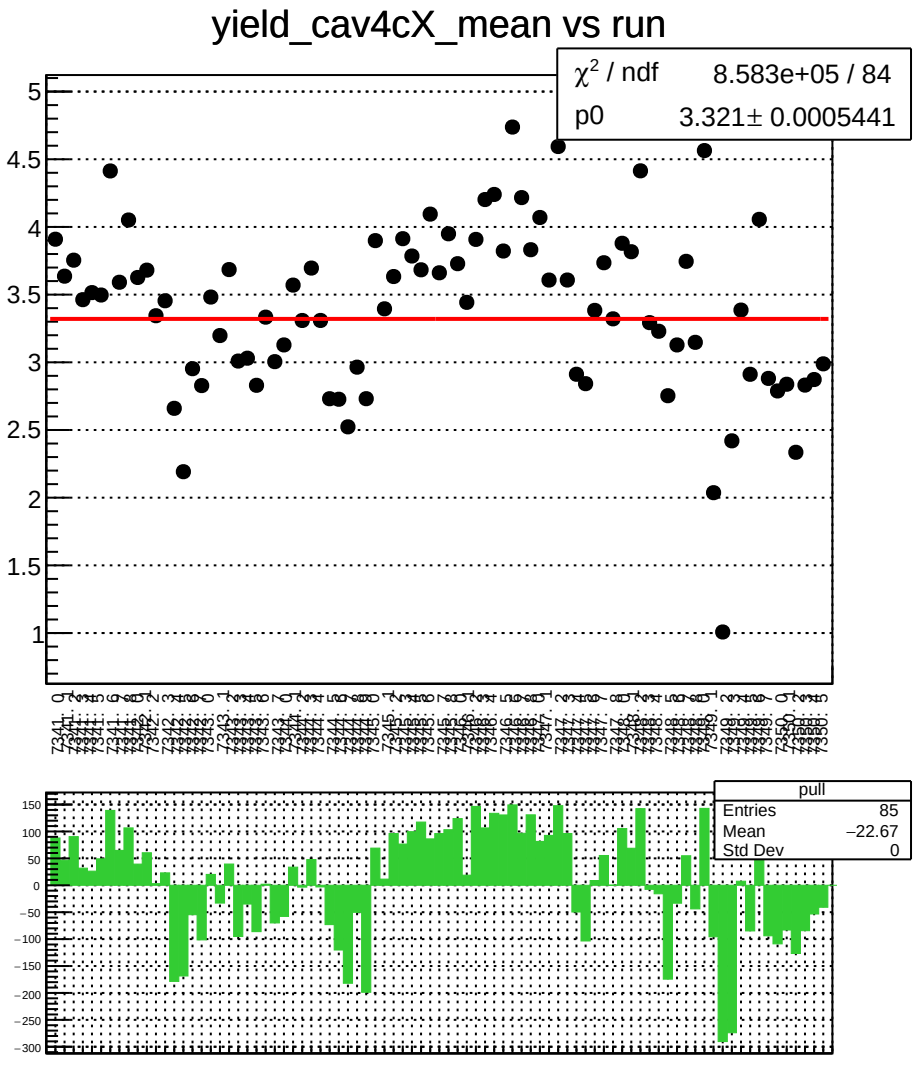

pull1D
Entries 85
Mean −2.741
Std Dev 3.175

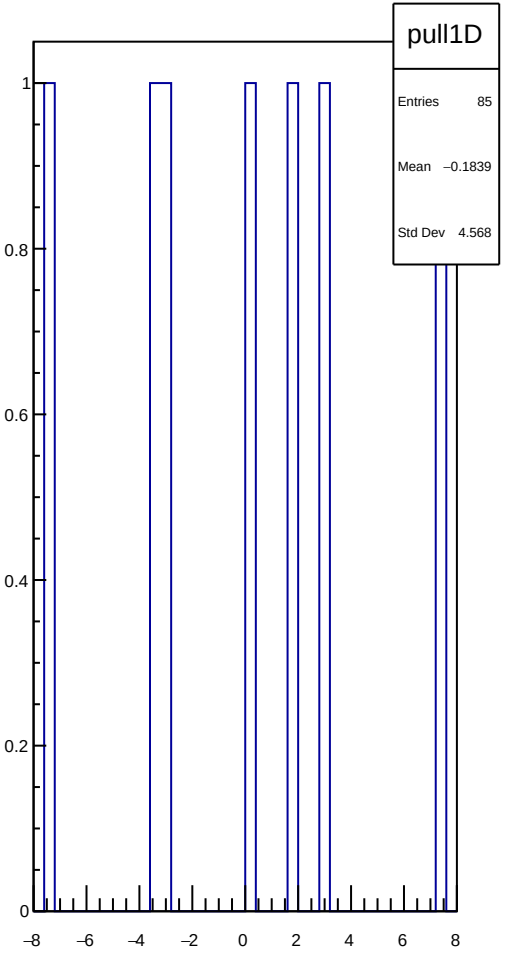

yield_cav4bX_rms vs run
χ² / ndf 2.09e+05 / 84
p0 0.9756 ± 0.0008223
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6

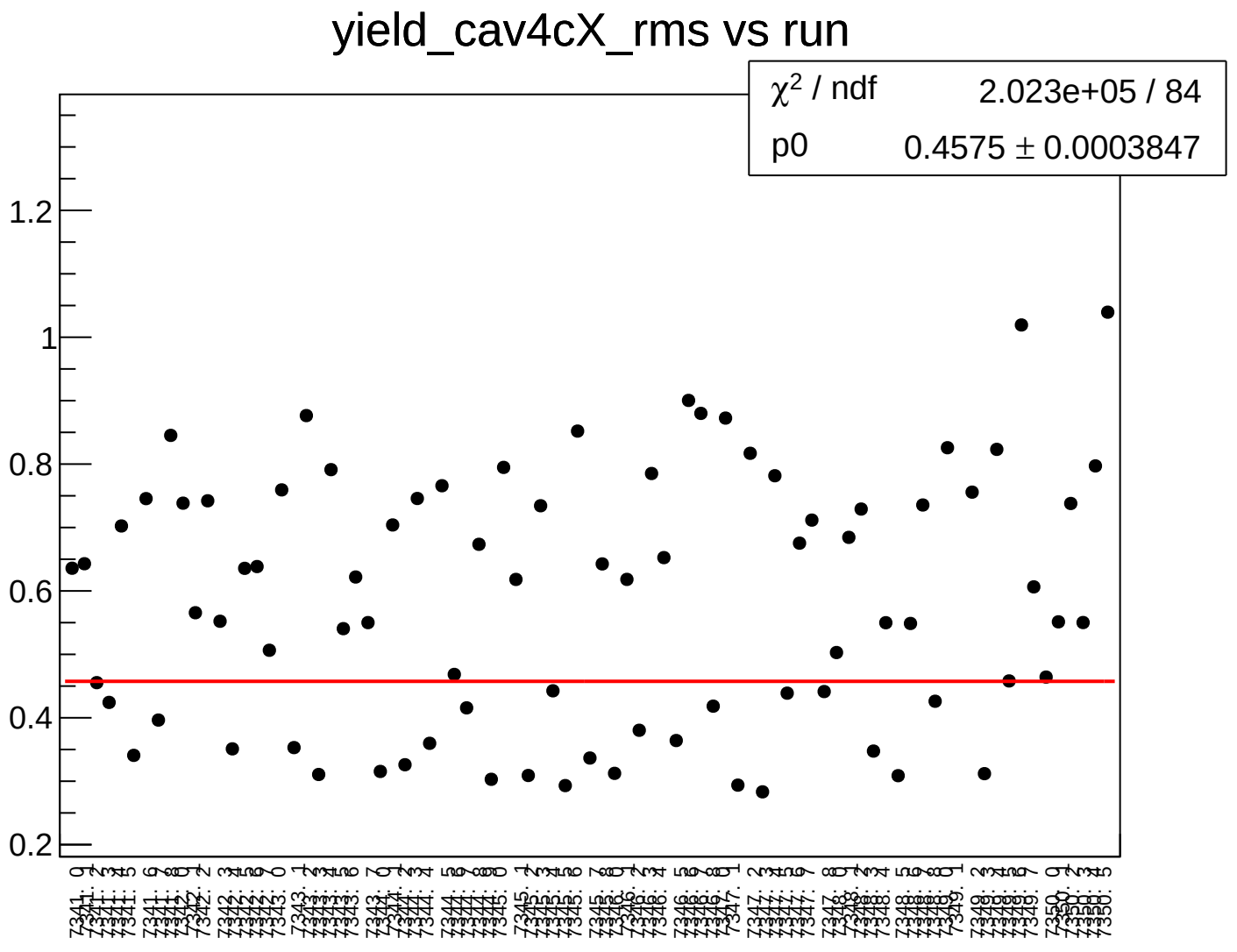

yield_cav4bY_mean vs run
χ² / ndf 1.27e+06 / 84
p0 −58.09 ± 0.0006284
−57
−57.5
−58
−58.5
−59
pull
Entries 85
Mean 6757
Std Dev 0
200
100
0
−100
−200

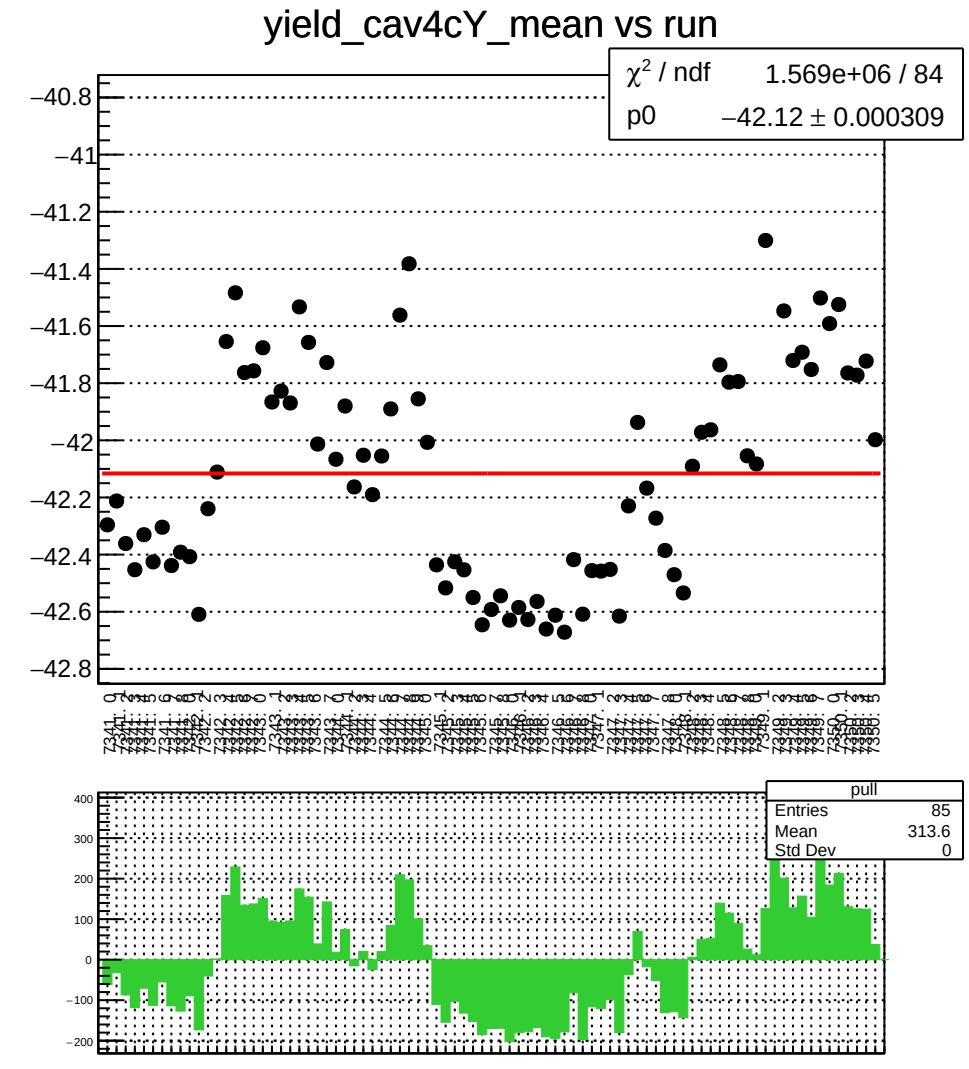

pull1D
Entries 85
Mean 2.232
Std Dev 1.294
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

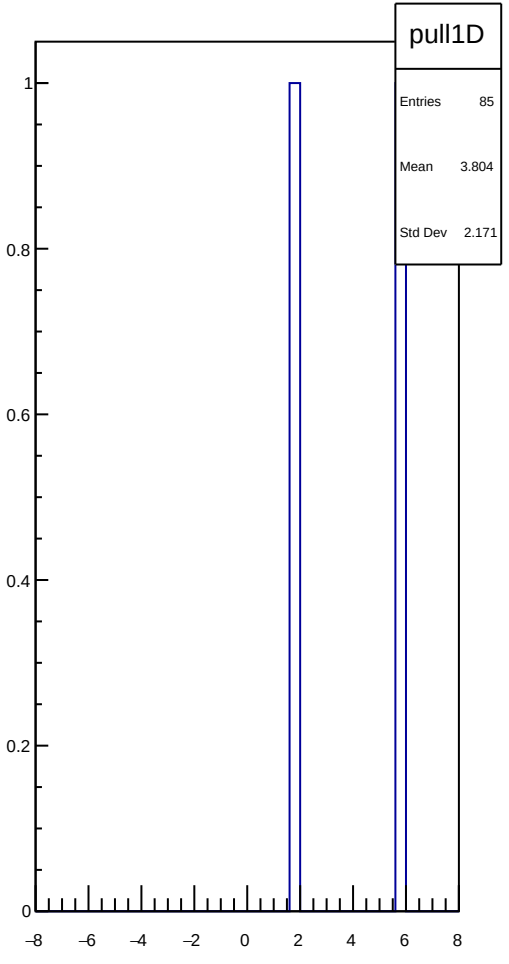

yield_cav4bY_rms vs run
χ² / ndf 1.188e+04 / 84
p0 0.5629 ± 0.0004444
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5

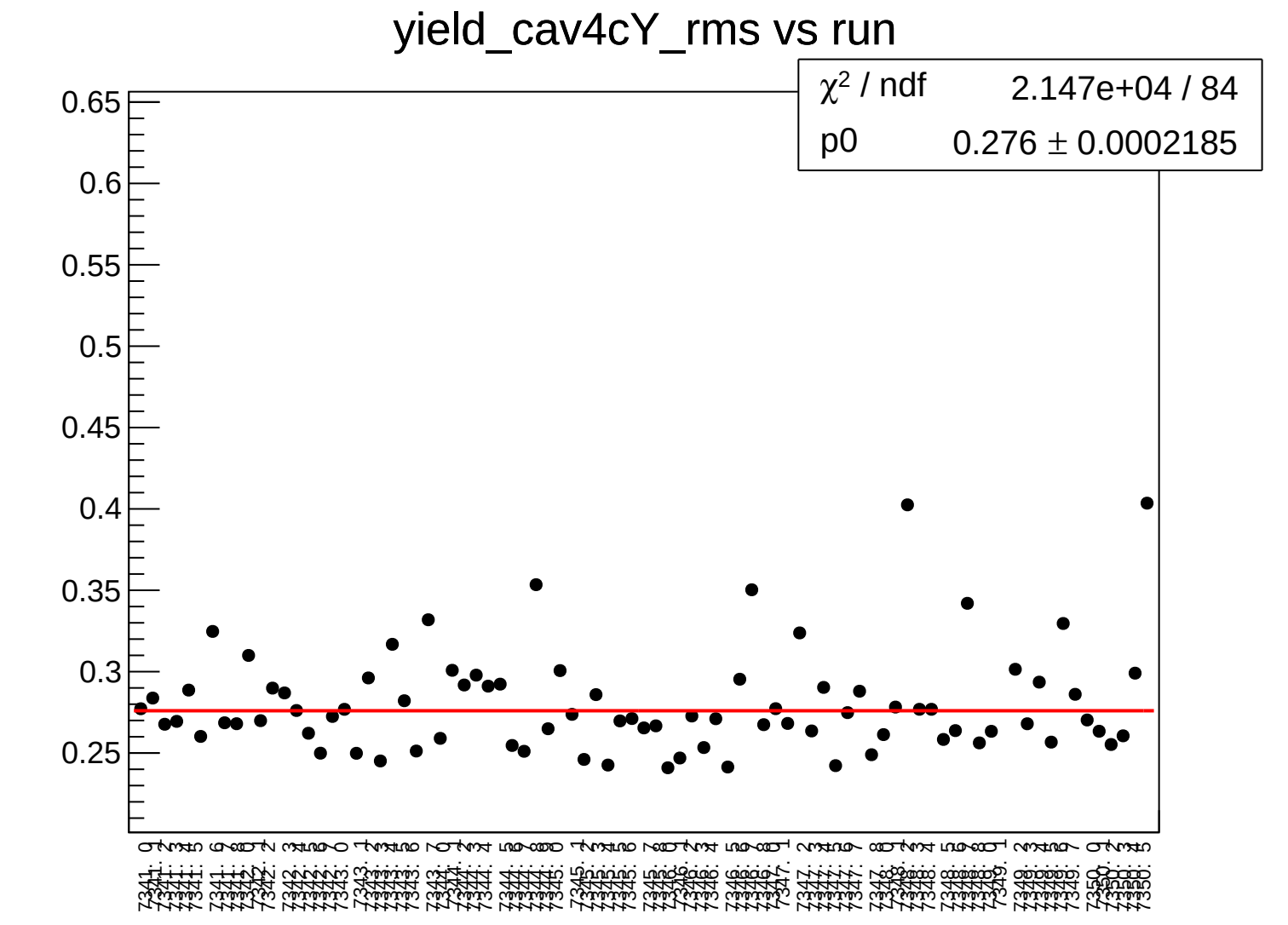

yield_cav4cX_mean vs run
χ² / ndf 8.583e+05 / 84
p0 3.321± 0.0005441
pull
Entries 85
Mean −22.67
Std Dev 0

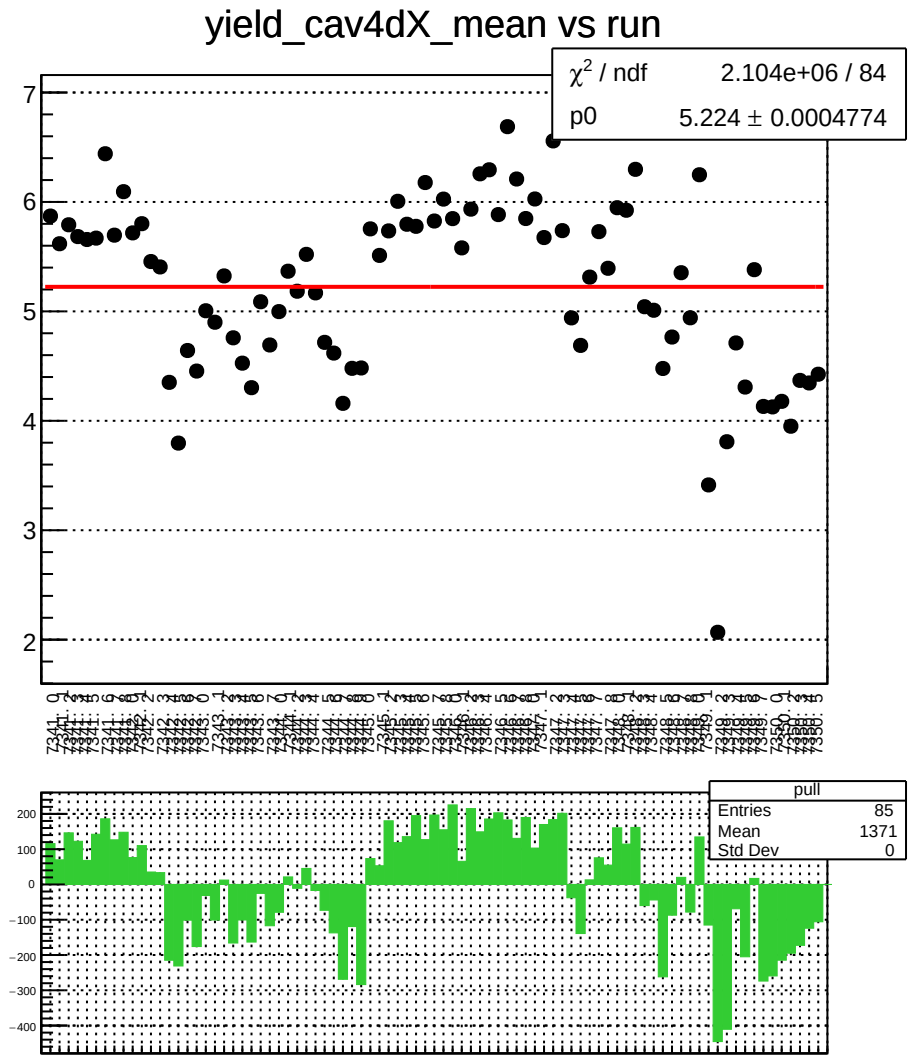

pull1D
Entries 85
Mean −0.1839
Std Dev 4.568

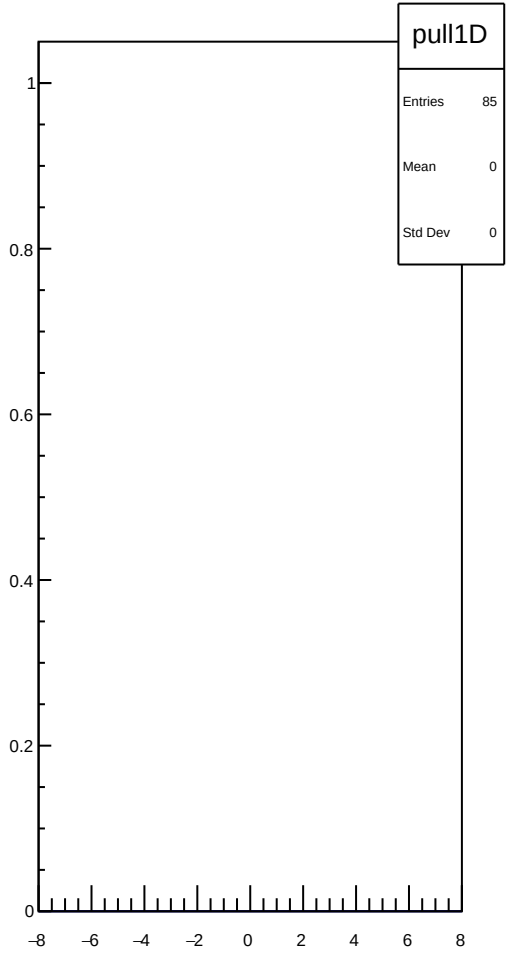

yield_cav4cX_rms vs run
χ² / ndf 2.023e+05 / 84
p0 0.4575 ± 0.0003847
1.2
1
0.8
0.6
0.4
0.2

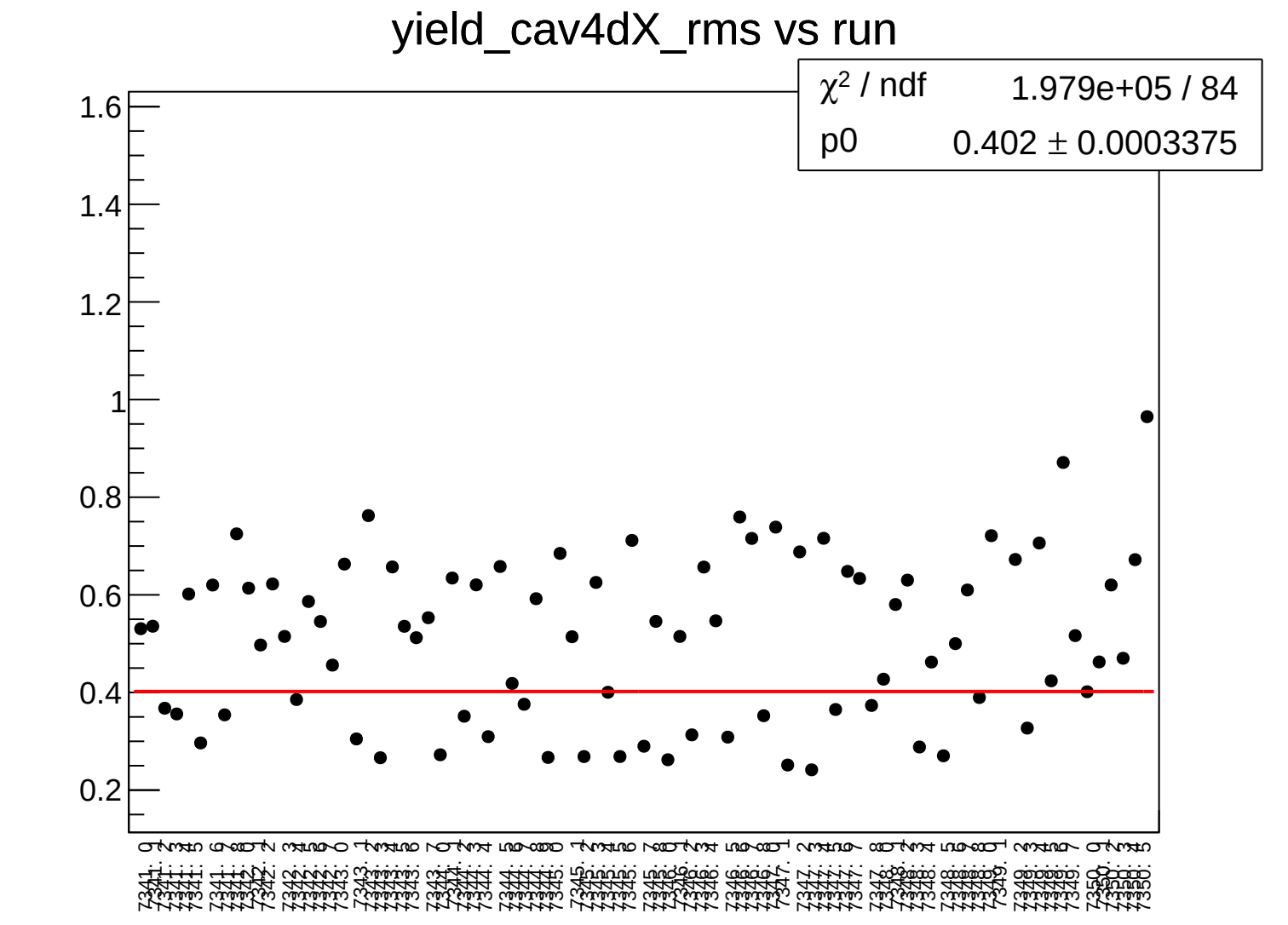

yield_cav4cY_mean vs run
χ² / ndf 1.569e+06 / 84
p0 −42.12 ± 0.000309
−40.8
−41
−41.2
−41.4
−41.6
−41.8
−42
−42.2
−42.4
−42.6
−42.8
pull
Entries 85
Mean 313.6
Std Dev 0
400
300
200
100
0
−100
−200

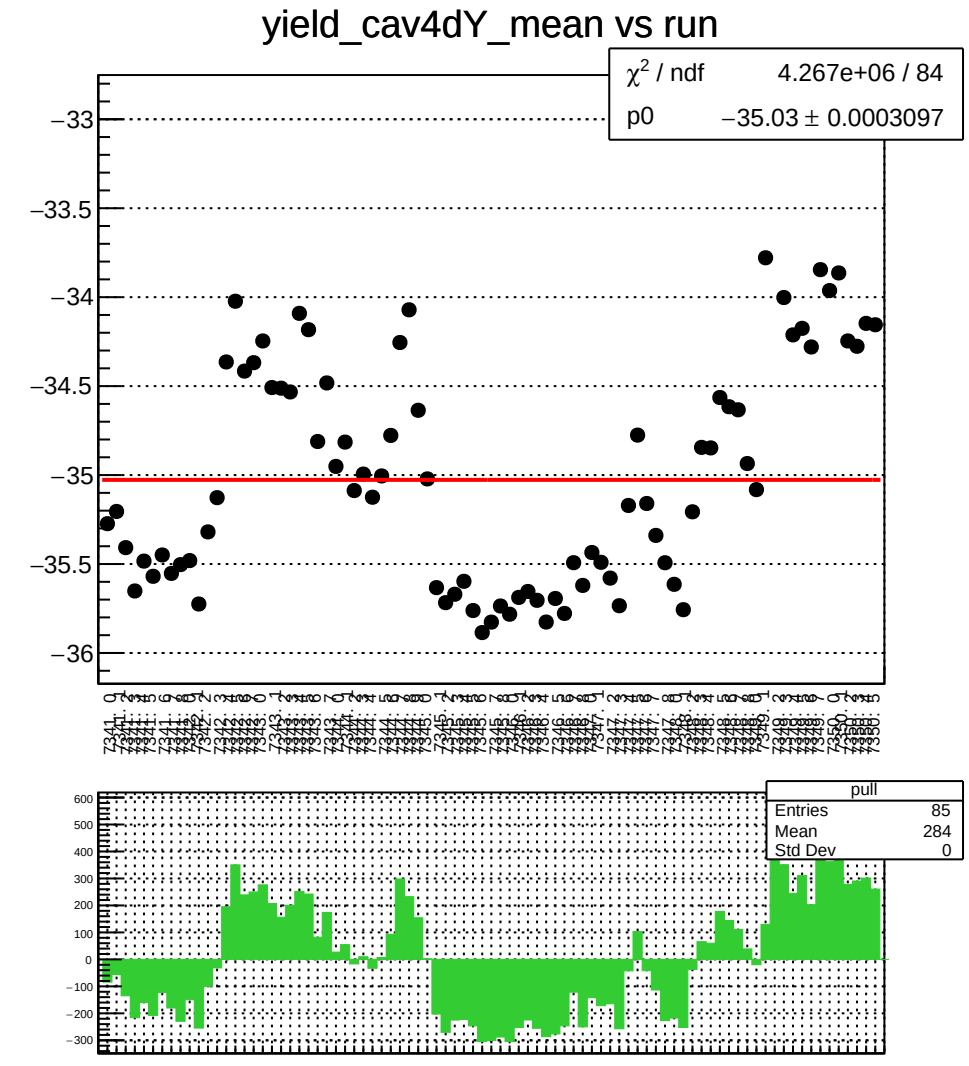

pull1D
Entries 85
Mean 3.804
Std Dev 2.171
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

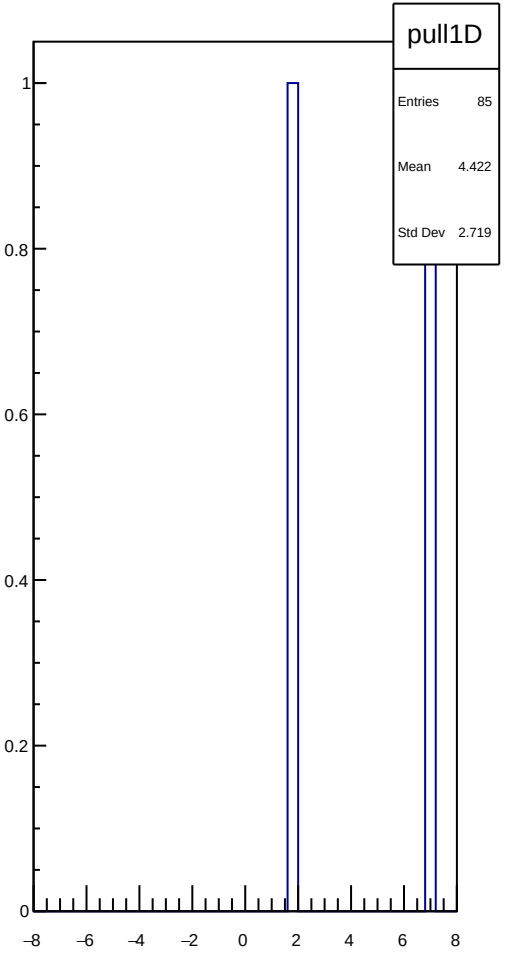

yield_cav4cY_rms vs run
χ² / ndf 2.147e+04 / 84
p0 0.276 ± 0.0002185
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

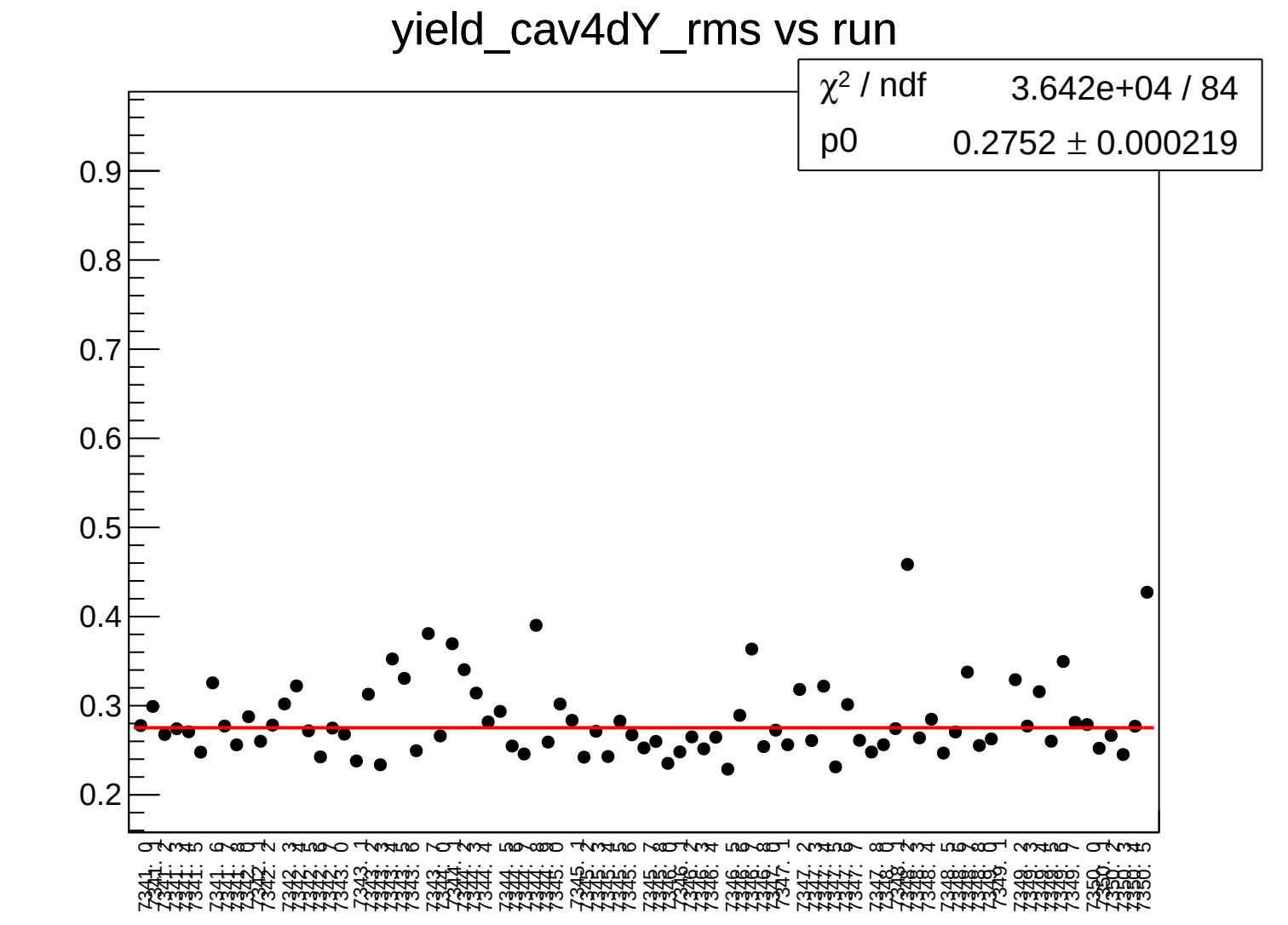

yield_cav4dX_mean vs run
χ² / ndf 2.104e+06 / 84
p0 5.224 ± 0.0004774
pull
Entries 85
Mean 1371
Std Dev 0

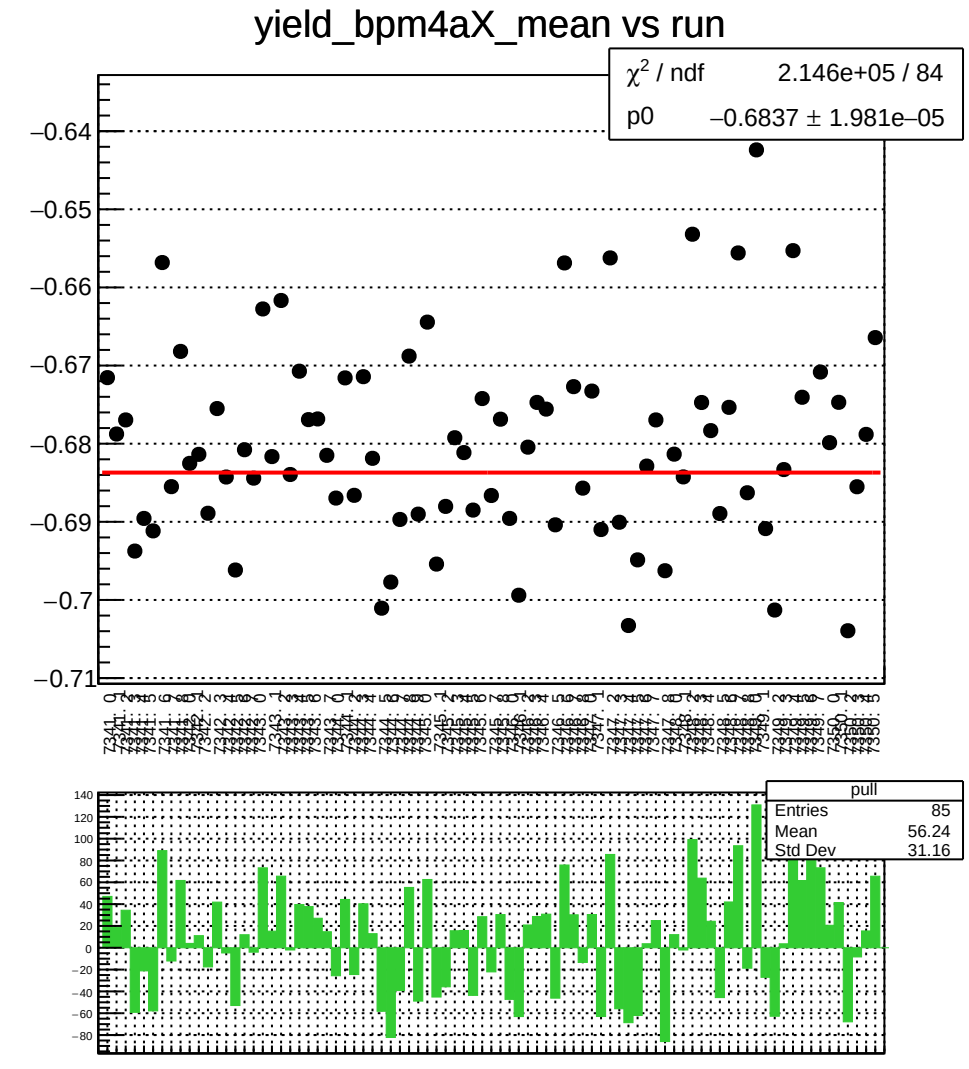

pull1D
Entries 85
Mean 0
Std Dev 0

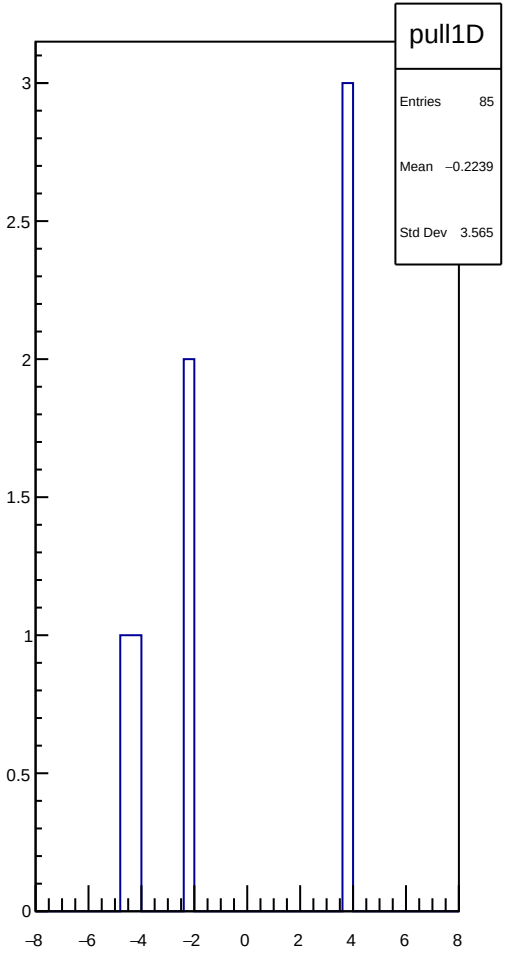

yield_cav4dX_rms vs run
χ² / ndf 1.979e+05 / 84
p0 0.402 ± 0.0003375
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

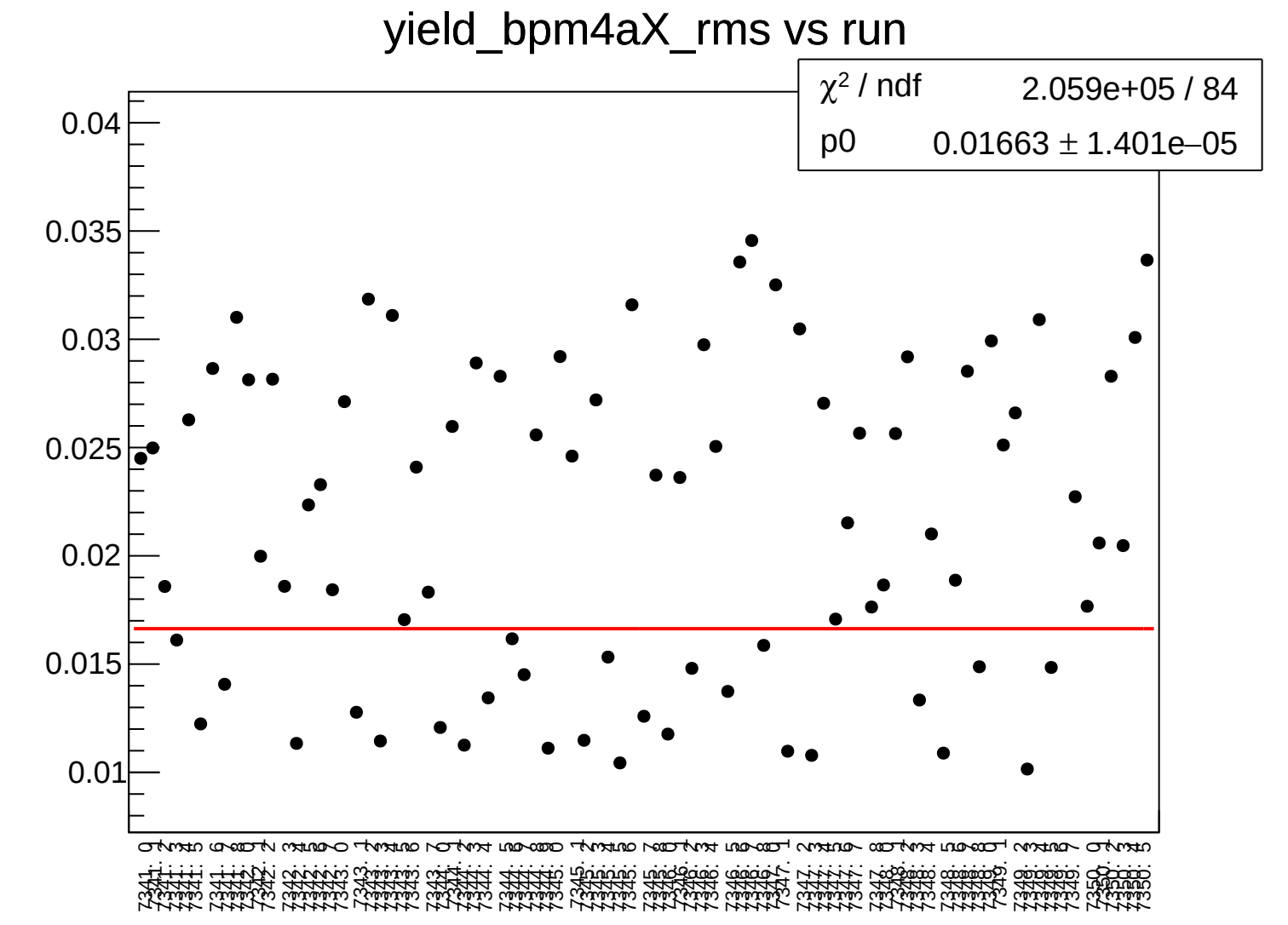

yield_cav4dY_mean vs run
χ² / ndf 4.267e+06 / 84
p0 −35.03 ± 0.0003097
−33
−33.5
−34
−34.5
−35
−35.5
−36
pull
Entries 85
Mean 284
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

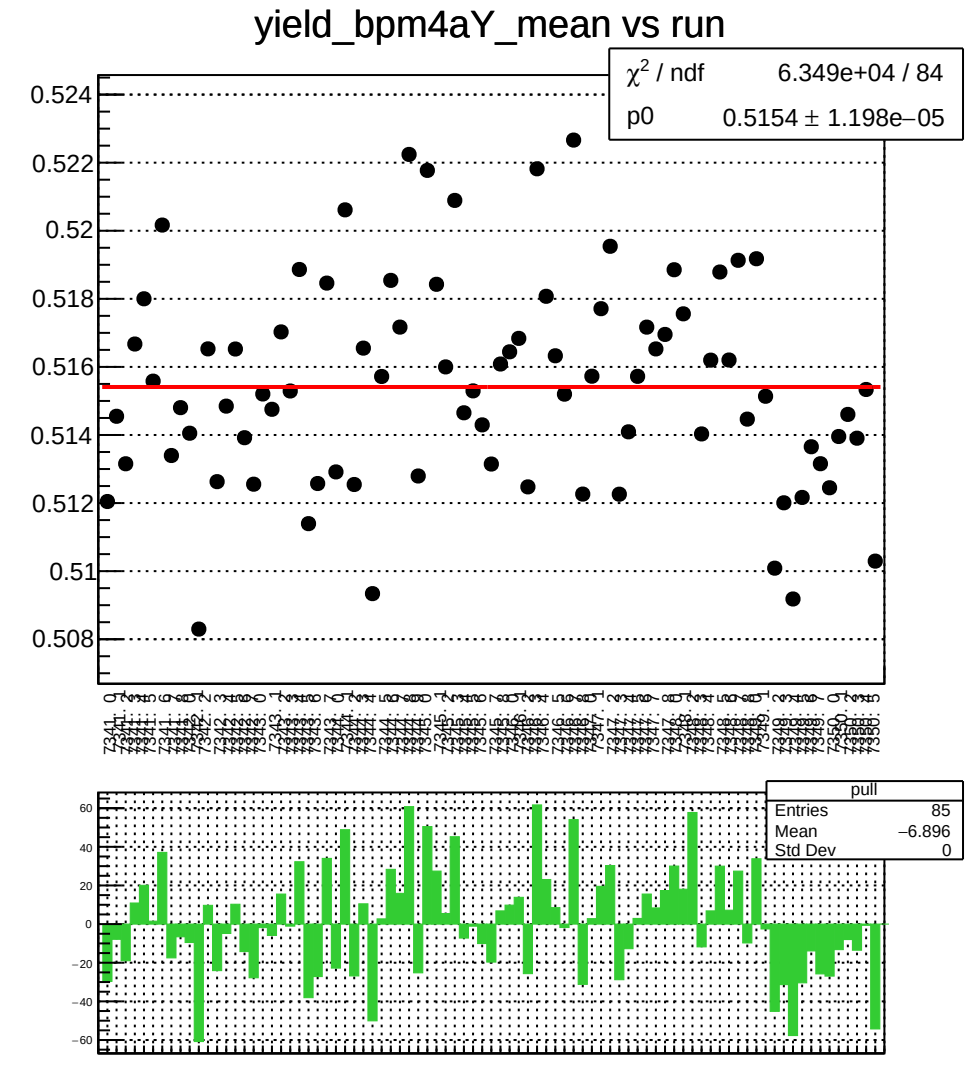

pull1D
Entries 85
Mean 4.422
Std Dev 2.719
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

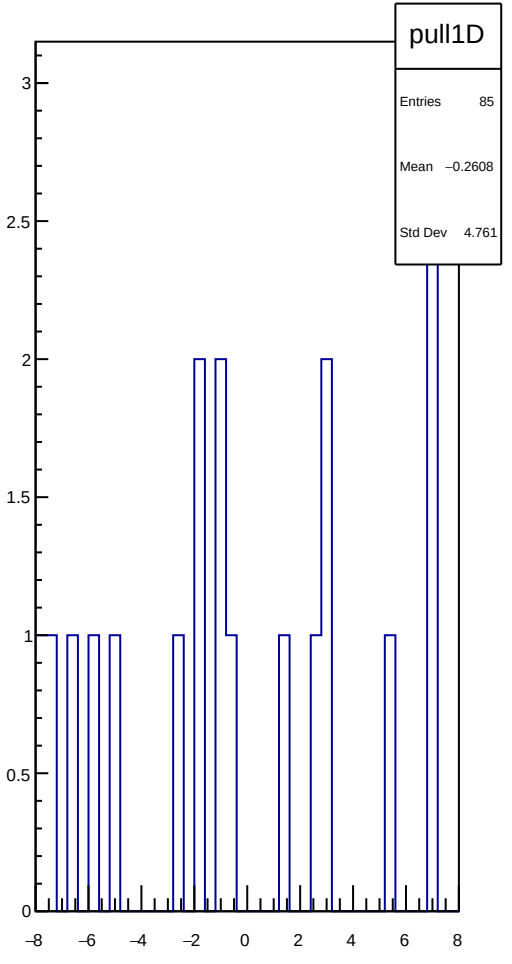

yield_cav4dY_rms vs run
χ² / ndf 3.642e+04 / 84
p0 0.2752 ± 0.000219
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

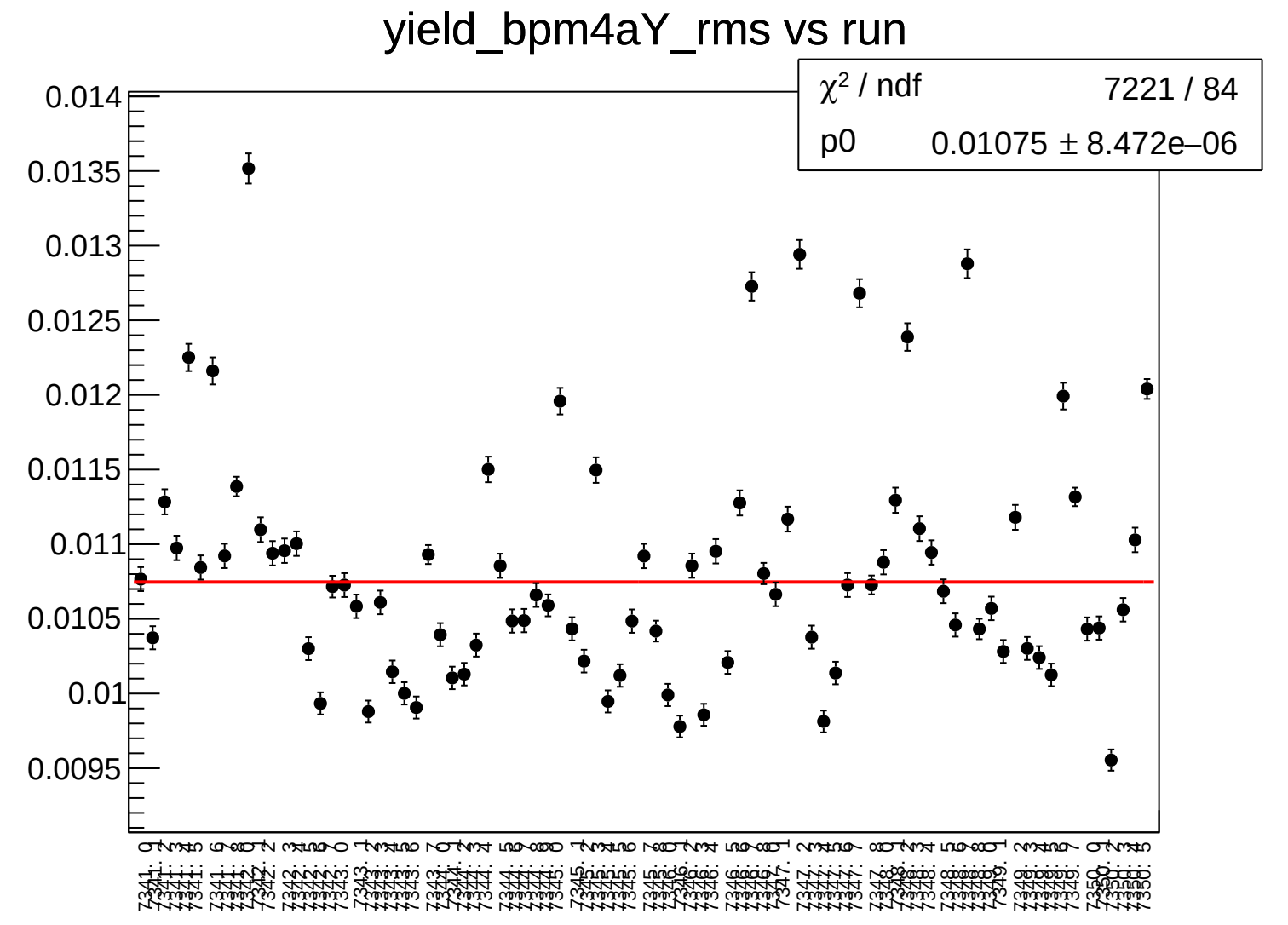

yield_bpm4aX_mean vs run
χ² / ndf 2.146e+05 / 84
p0 −0.6837 ± 1.981e−05
pull
Entries 85
Mean 56.24
Std Dev 31.16

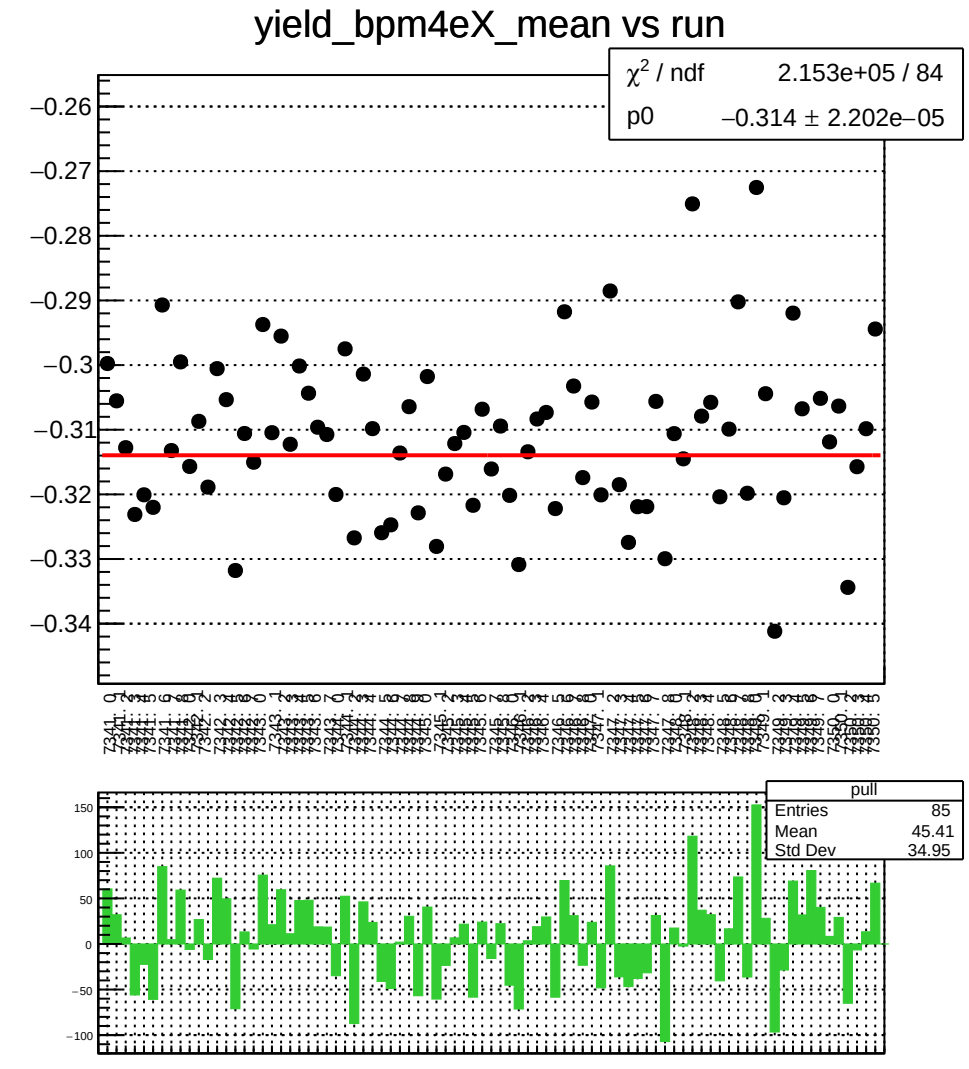

pull1D
Entries 85
Mean −0.2239
Std Dev 3.565

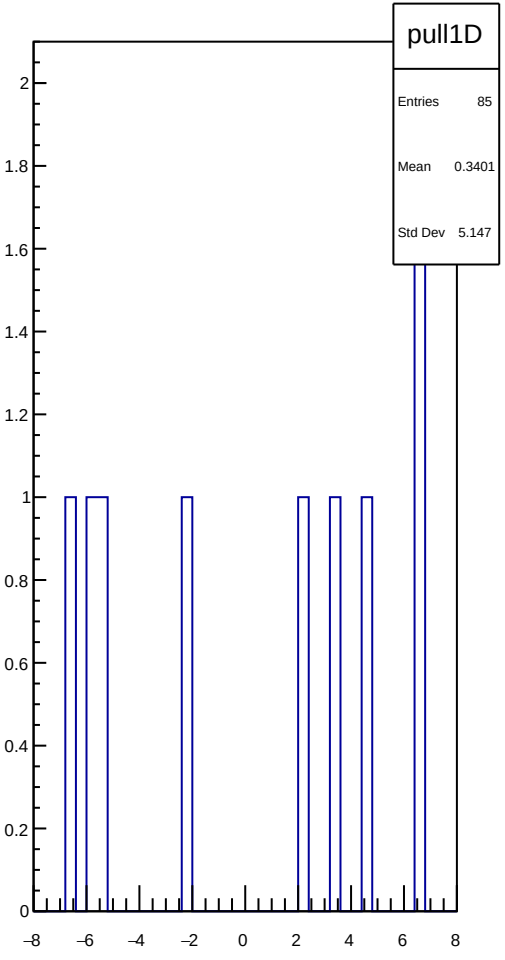

yield_bpm4aX_rms vs run
χ² / ndf 2.059e+05 / 84
p0 0.01663 ± 1.401e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

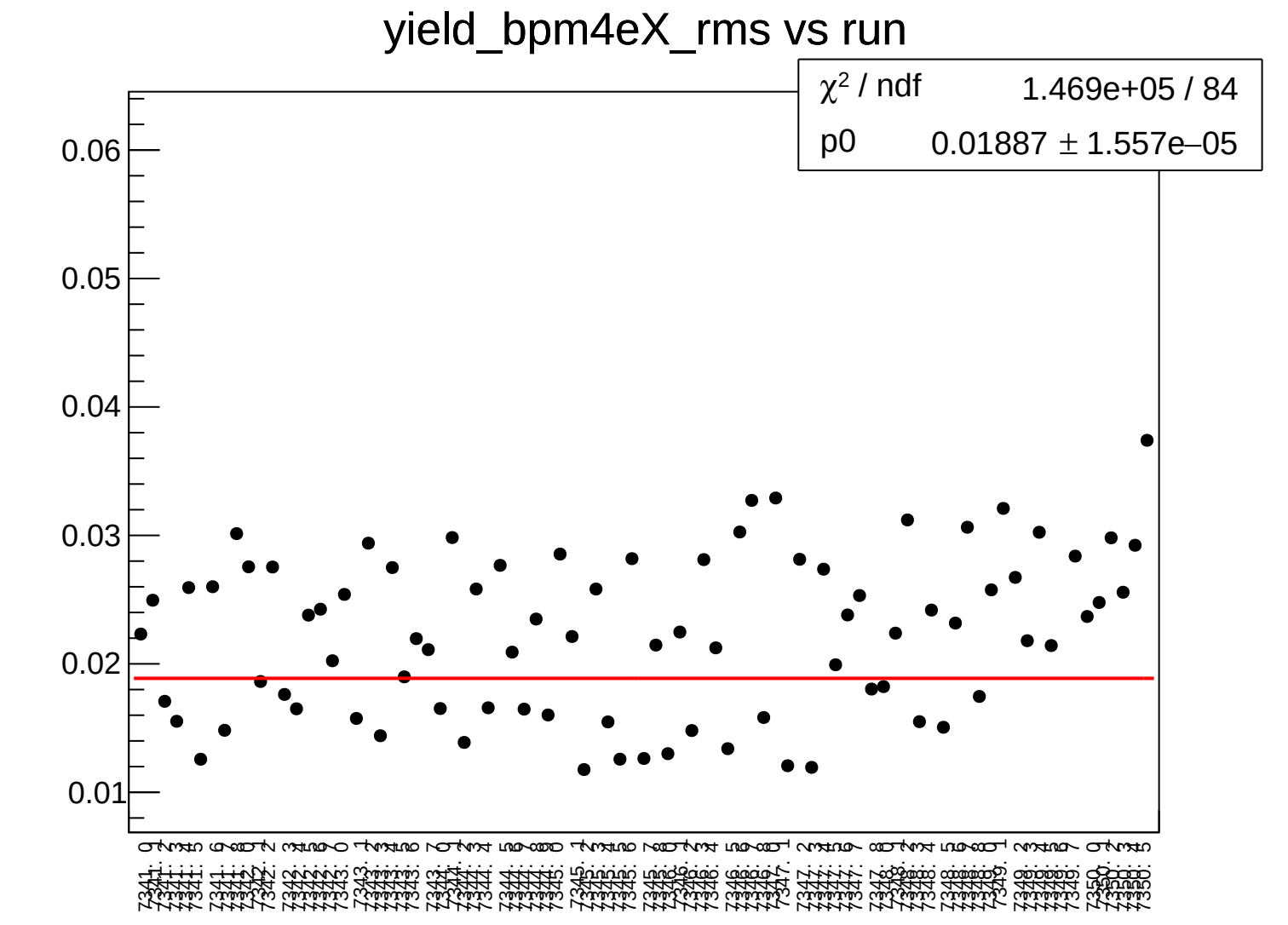

yield_bpm4aY_mean vs run
χ² / ndf 6.349e+04 / 84
p0 0.5154 ± 1.198e−05
0.524
0.522
0.52
0.518
0.516
0.514
0.512
0.51
0.508
pull
Entries 85
Mean −6.896
Std Dev 0
60
40
20
0
−20
−40
−60

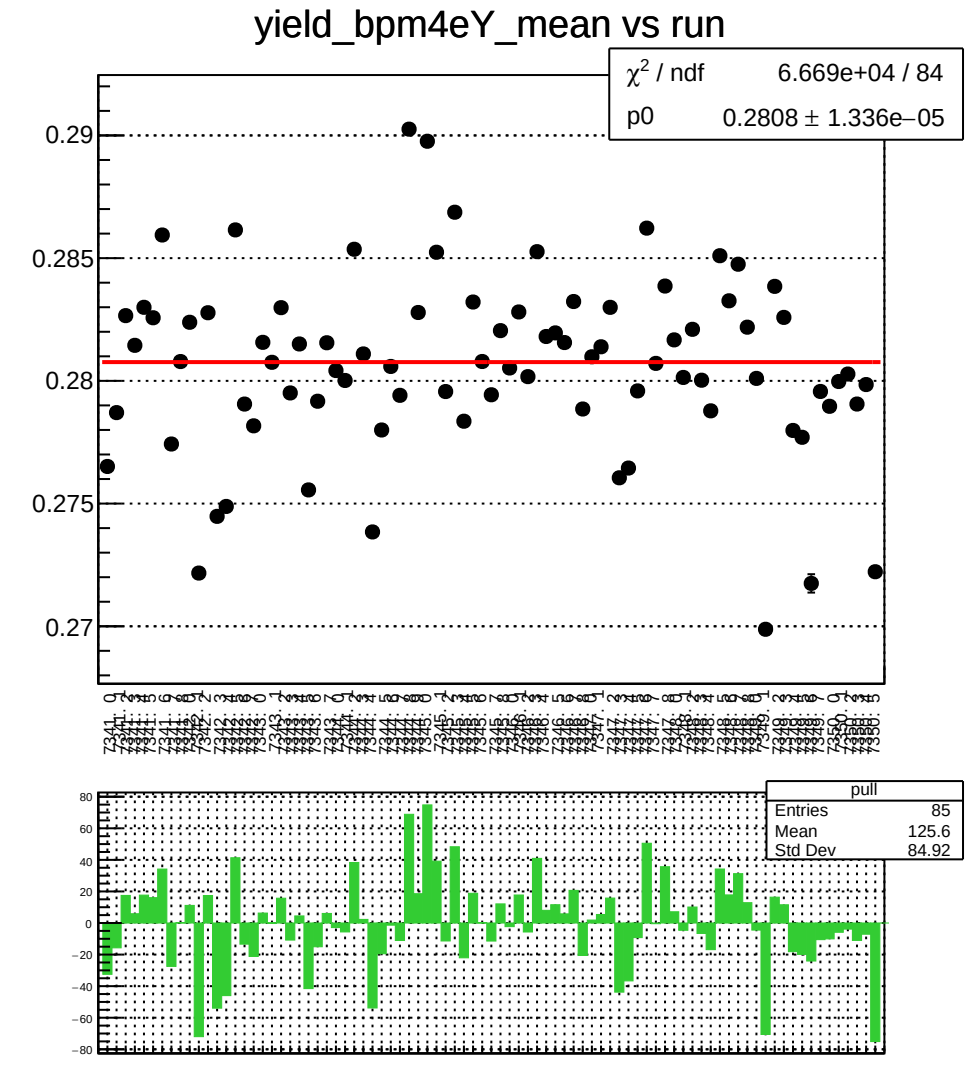

pull1D
Entries 85
Mean −0.2608
Std Dev 4.761
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

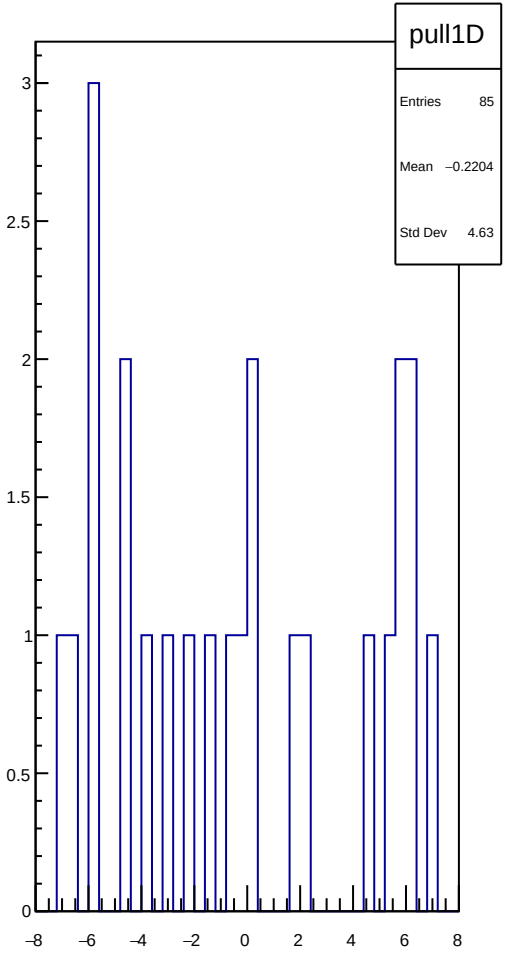

yield_bpm4aY_rms vs run
χ² / ndf 7221 / 84
p0 0.01075 ± 8.472e–06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

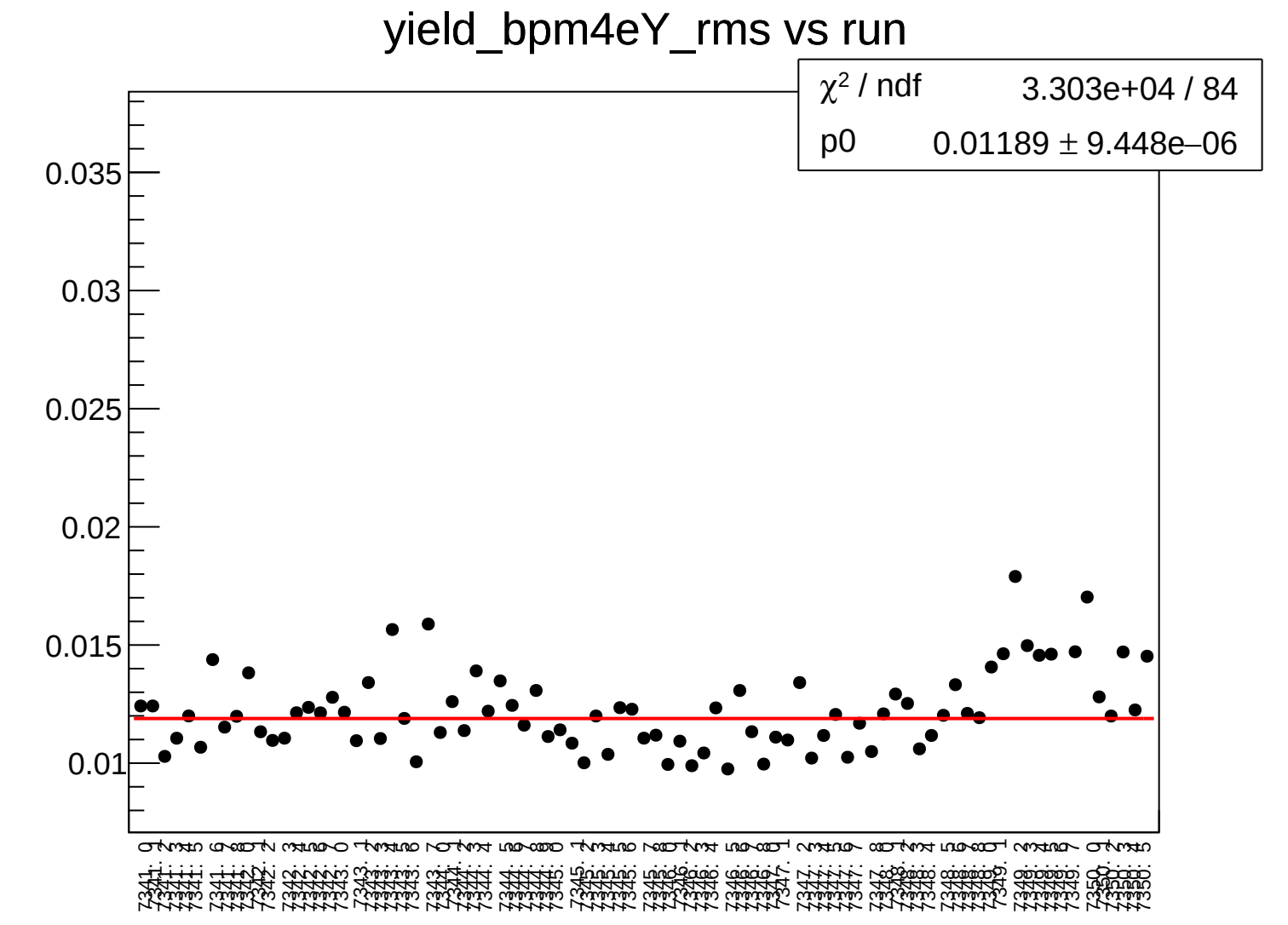

yield_bpm4eX_mean vs run
χ² / ndf 2.153e+05 / 84
p0 −0.314 ± 2.202e−05
pull
Entries 85
Mean 45.41
Std Dev 34.95

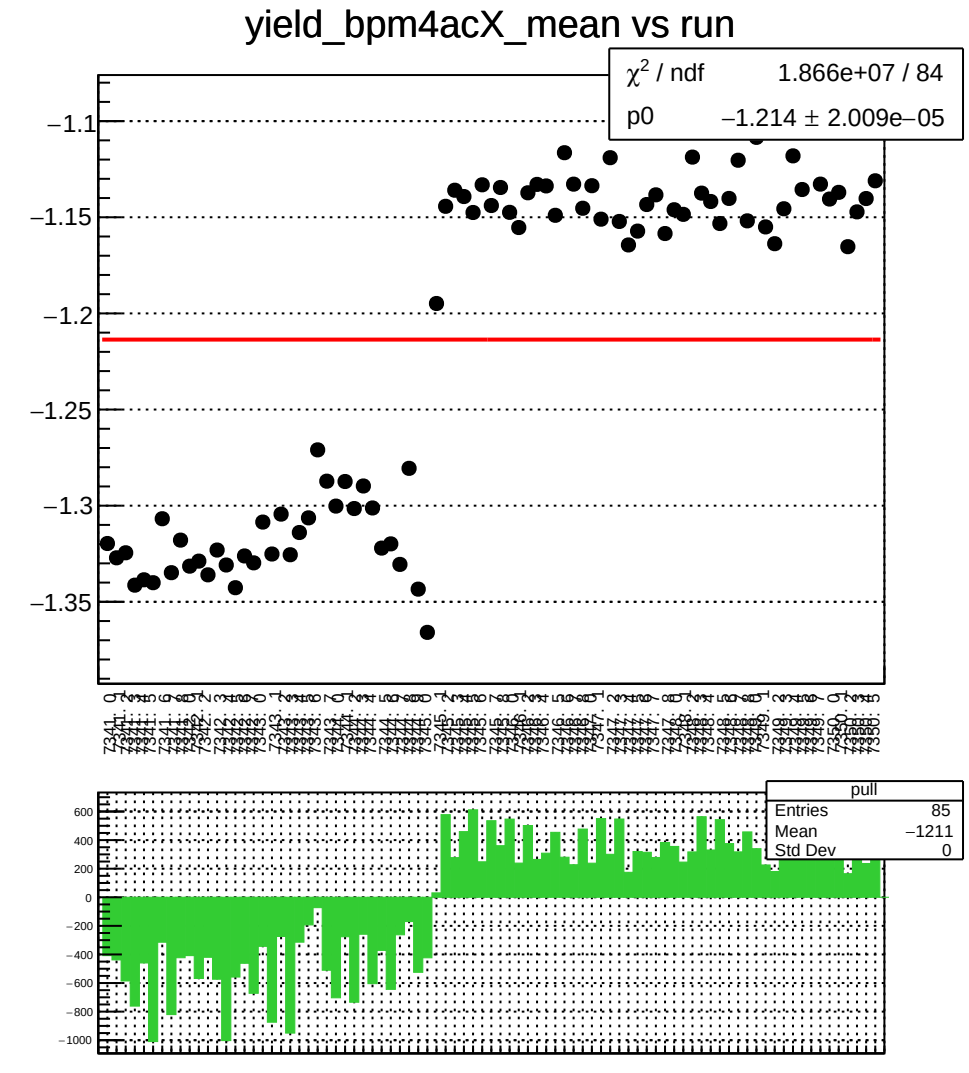

pull1D
Entries 85
Mean 0.3401
Std Dev 5.147

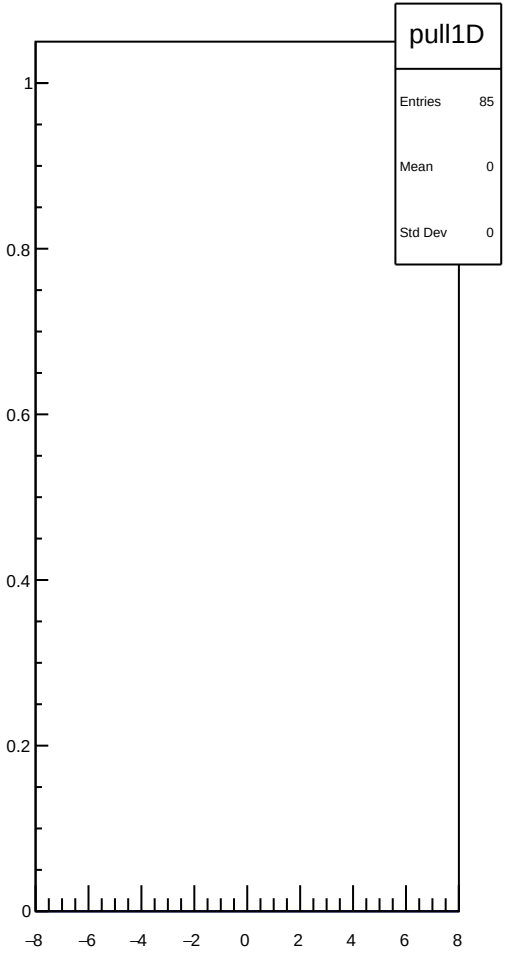

yield_bpm4eX_rms vs run
χ² / ndf 1.469e+05 / 84
p0 0.01887 ± 1.557e–05
0.06
0.05
0.04
0.03
0.02
0.01

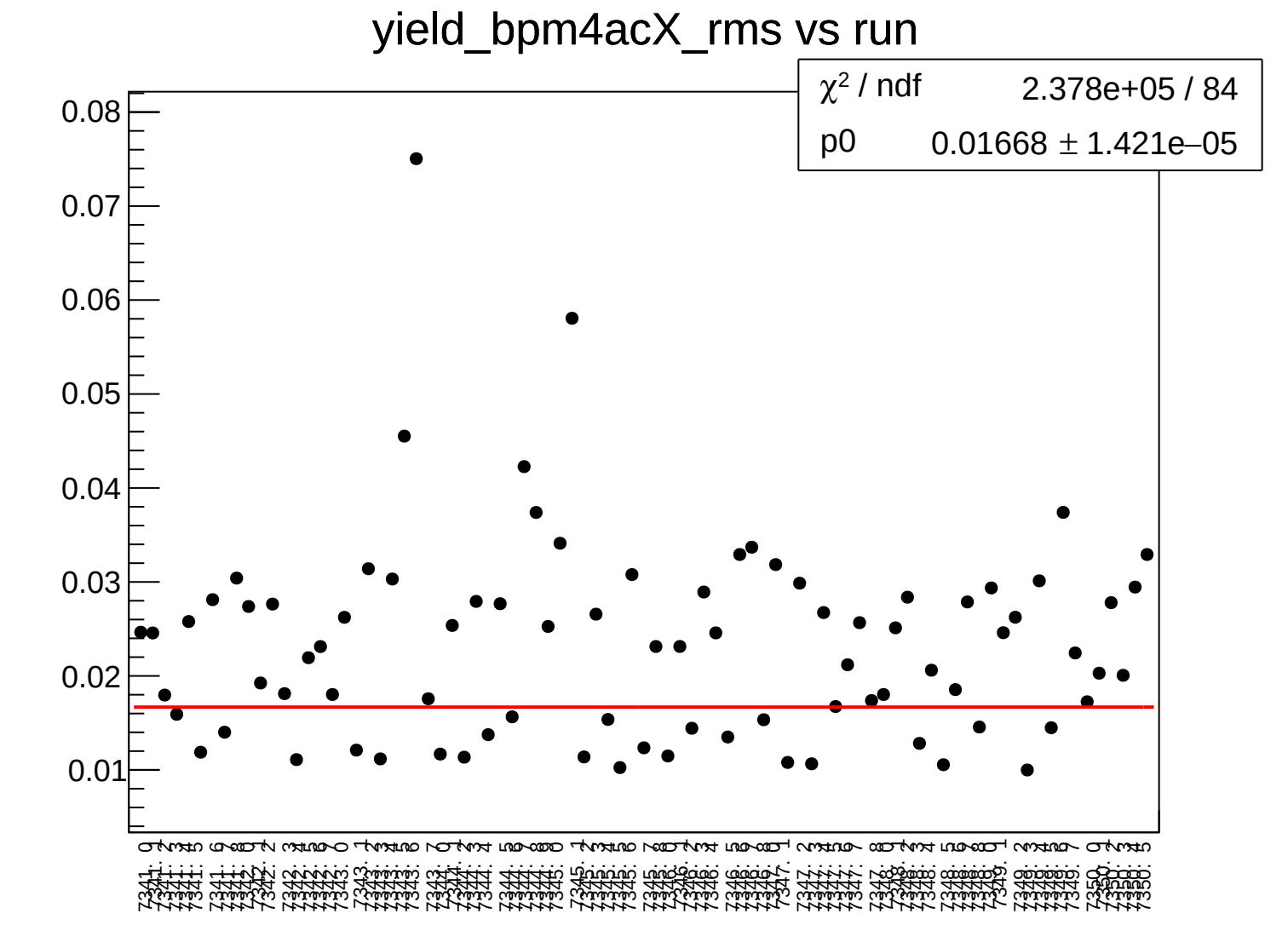

yield_bpm4eY_mean vs run
χ² / ndf 6.669e+04 / 84
p0 0.2808 ± 1.336e−05
0.29
0.285
0.28
0.275
0.27
pull
Entries 85
Mean 125.6
Std Dev 84.92
80
60
40
20
0
−20
−40
−60
−80

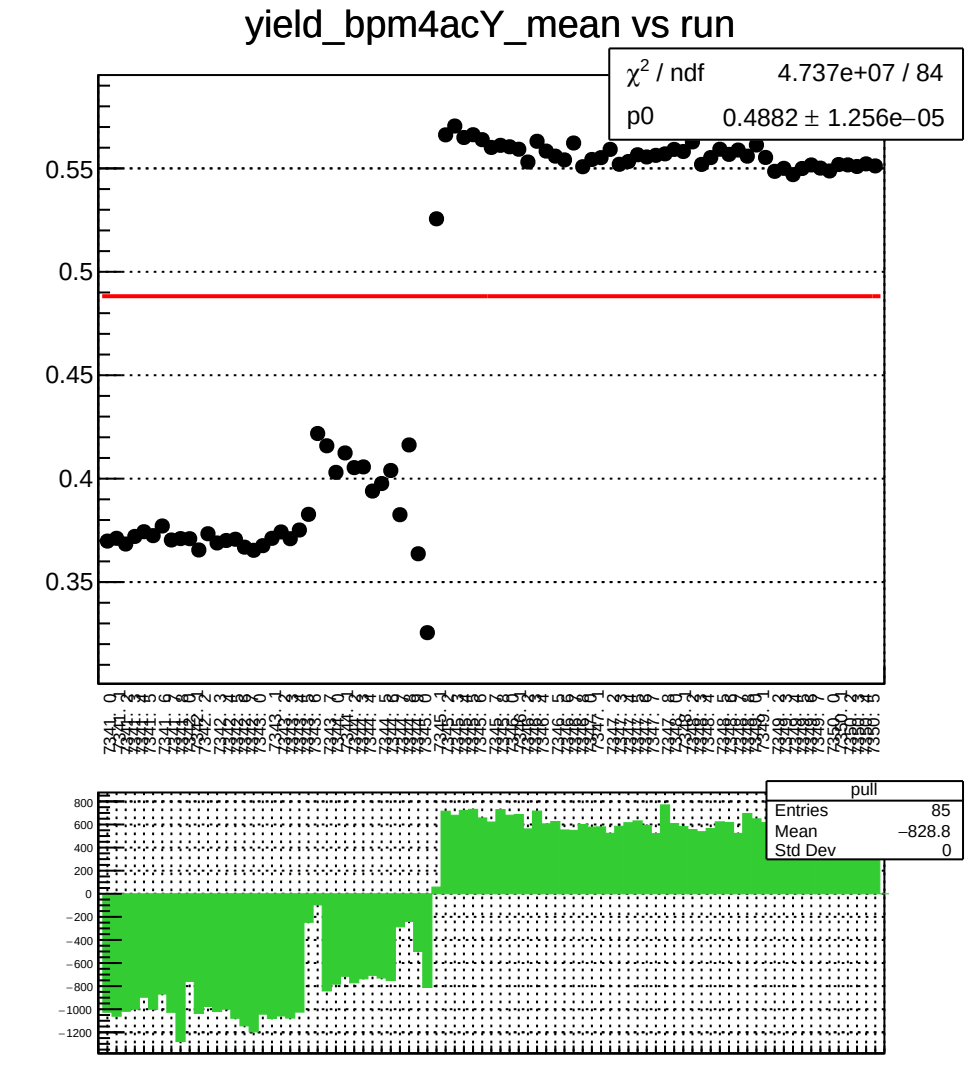

pull1D
Entries 85
Mean −0.2204
Std Dev 4.63
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

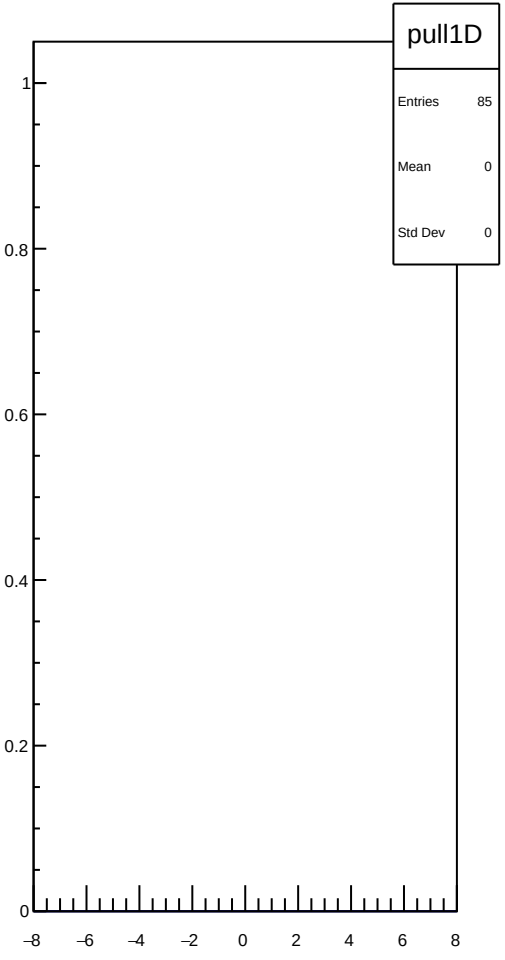

yield_bpm4eY_rms vs run
χ² / ndf 3.303e+04 / 84
p0 0.01189 ± 9.448e–06
0.035
0.03
0.025
0.02
0.015
0.01

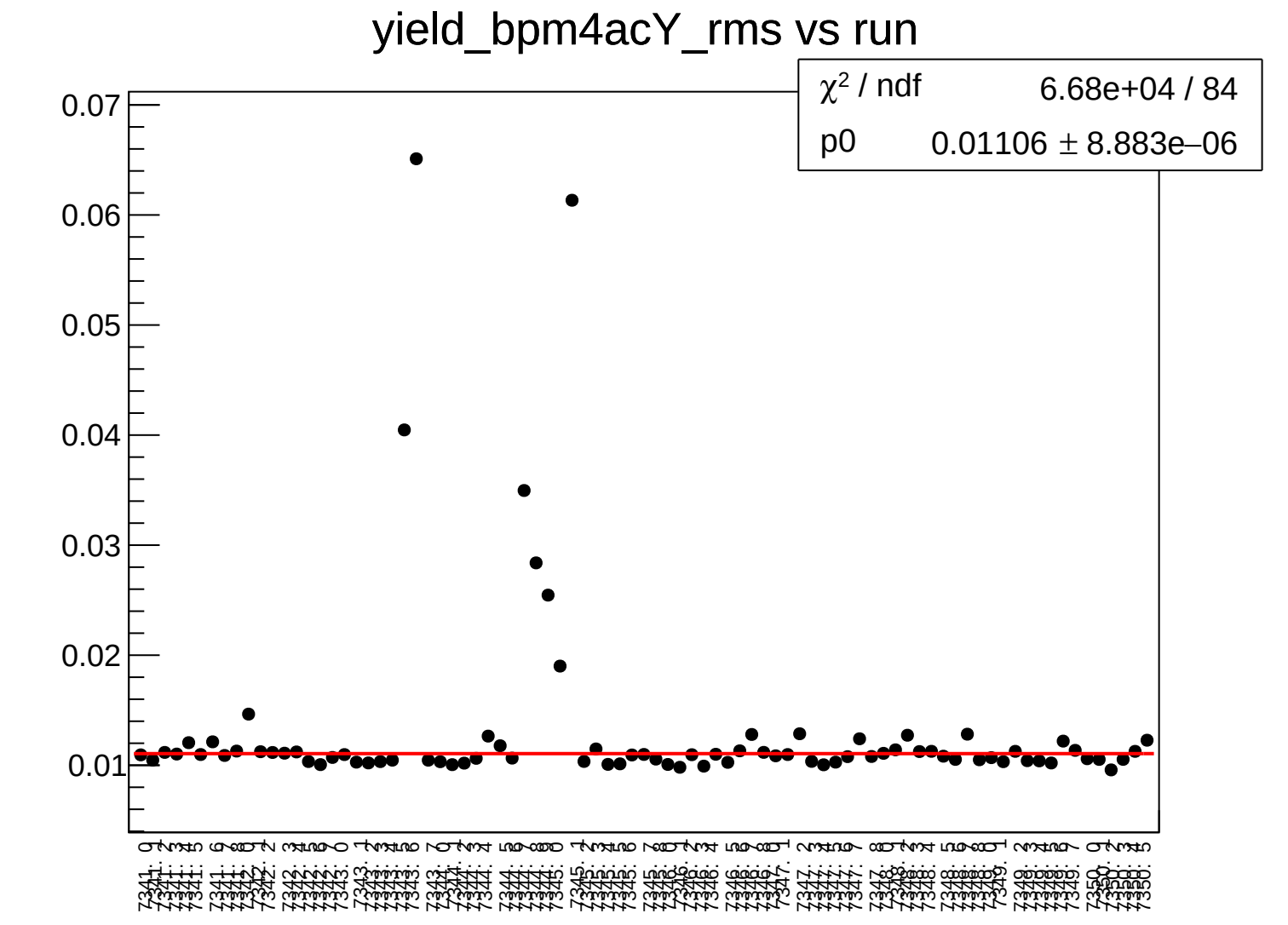

yield_bpm4acX_mean vs run
χ² / ndf 1.866e+07 / 84
p0 −1.214 ± 2.009e−05
−1.1
−1.15
−1.2
−1.25
−1.3
−1.35
pull
Entries 85
Mean −1211
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

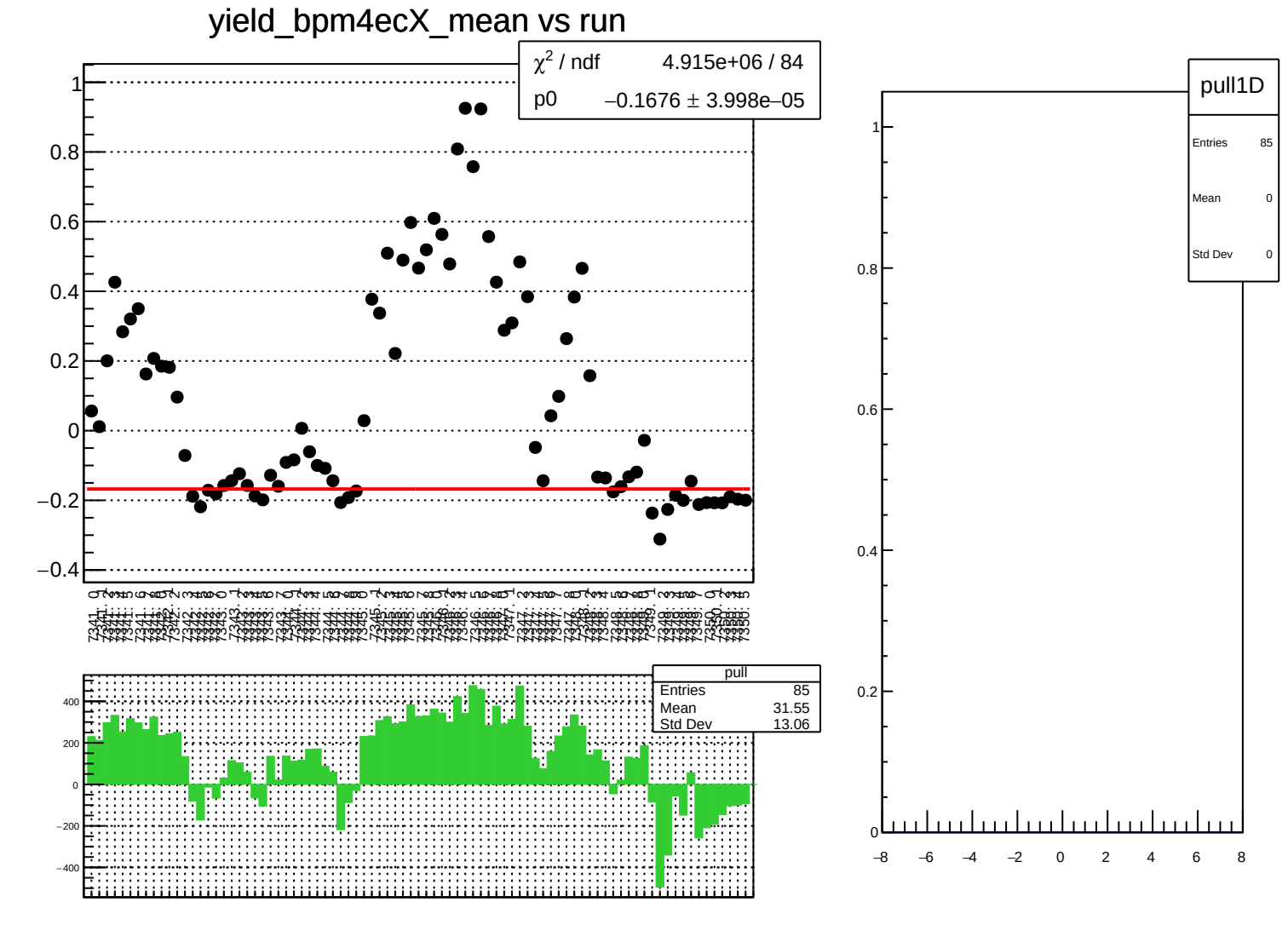

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

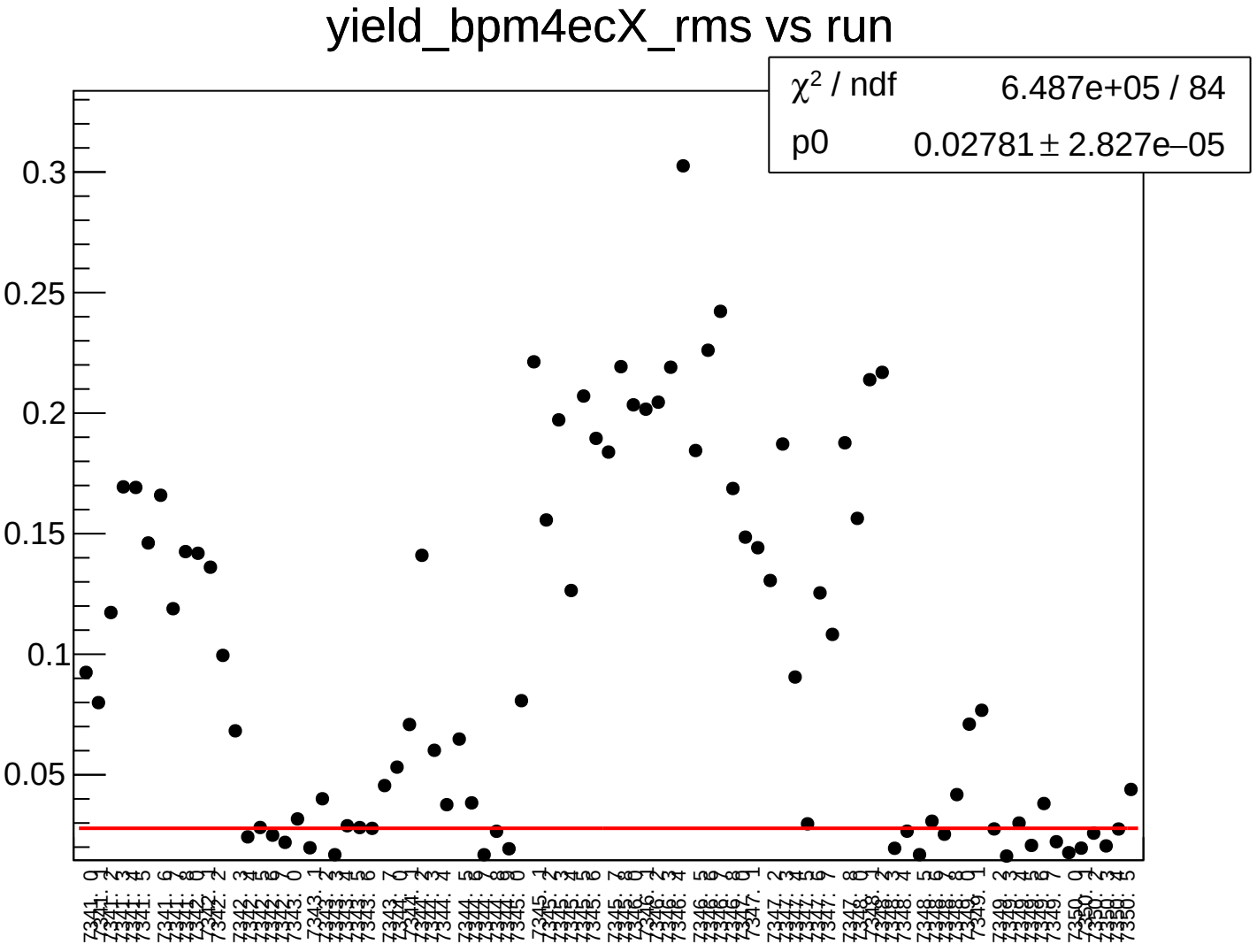

yield_bpm4acX_rms vs run
χ² / ndf 2.378e+05 / 84
p0 0.01668 ± 1.421e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

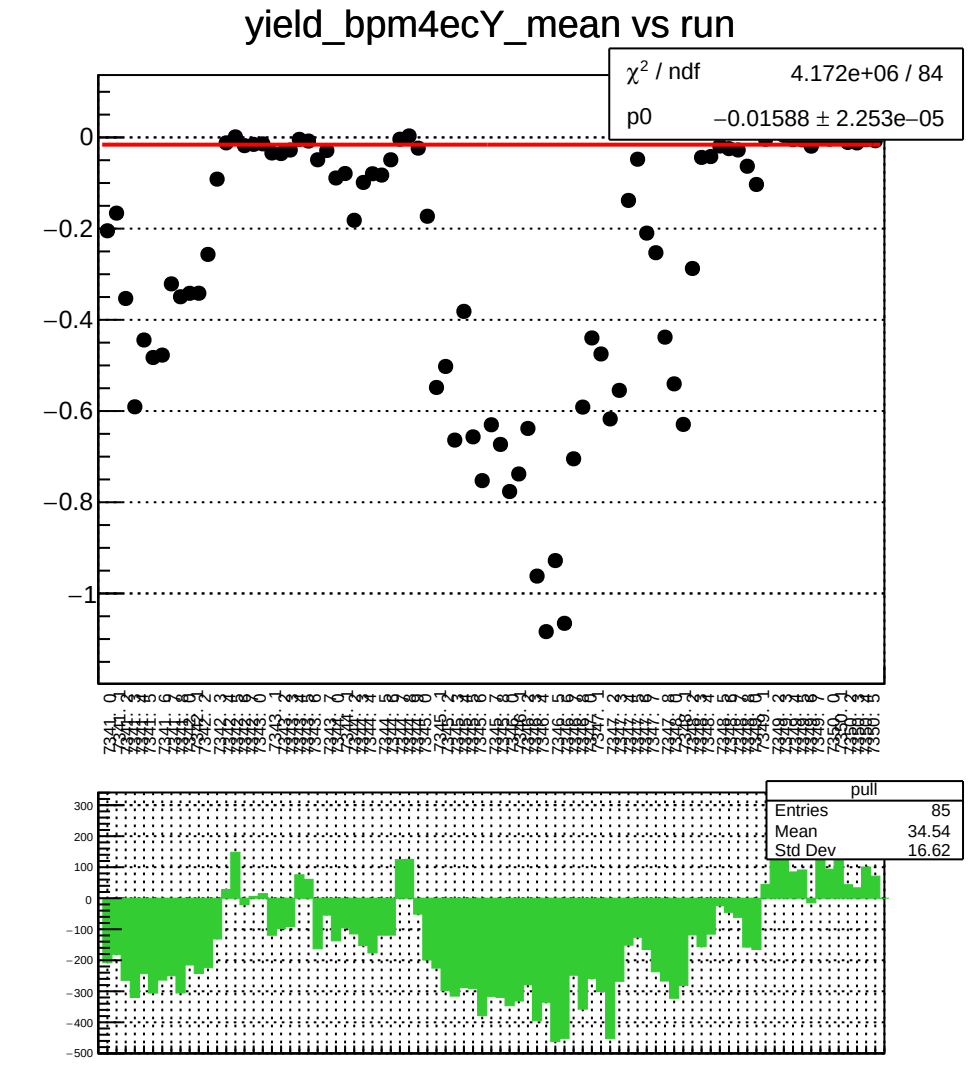

yield_bpm4acY_mean vs run
χ² / ndf 4.737e+07 / 84
p0 0.4882 ± 1.256e−05
0.55
0.5
0.45
0.4
0.35
pull
Entries 85
Mean −828.8
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

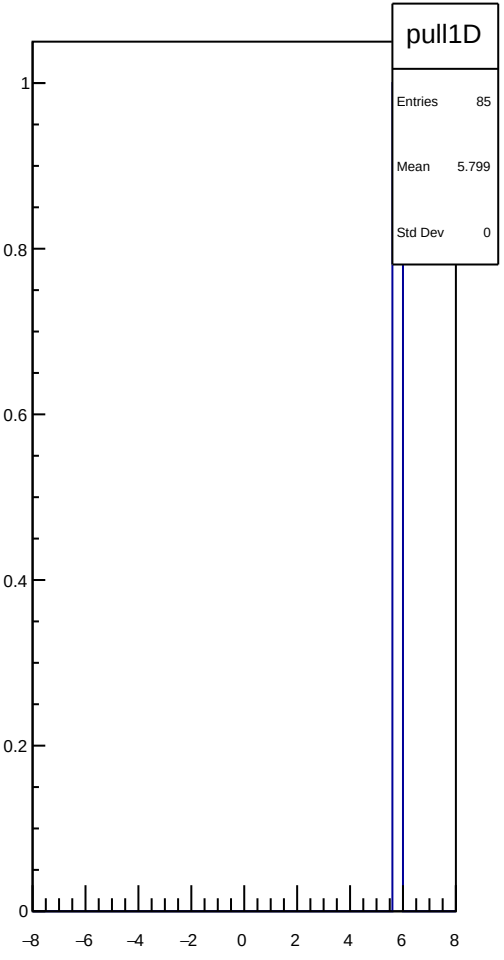

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

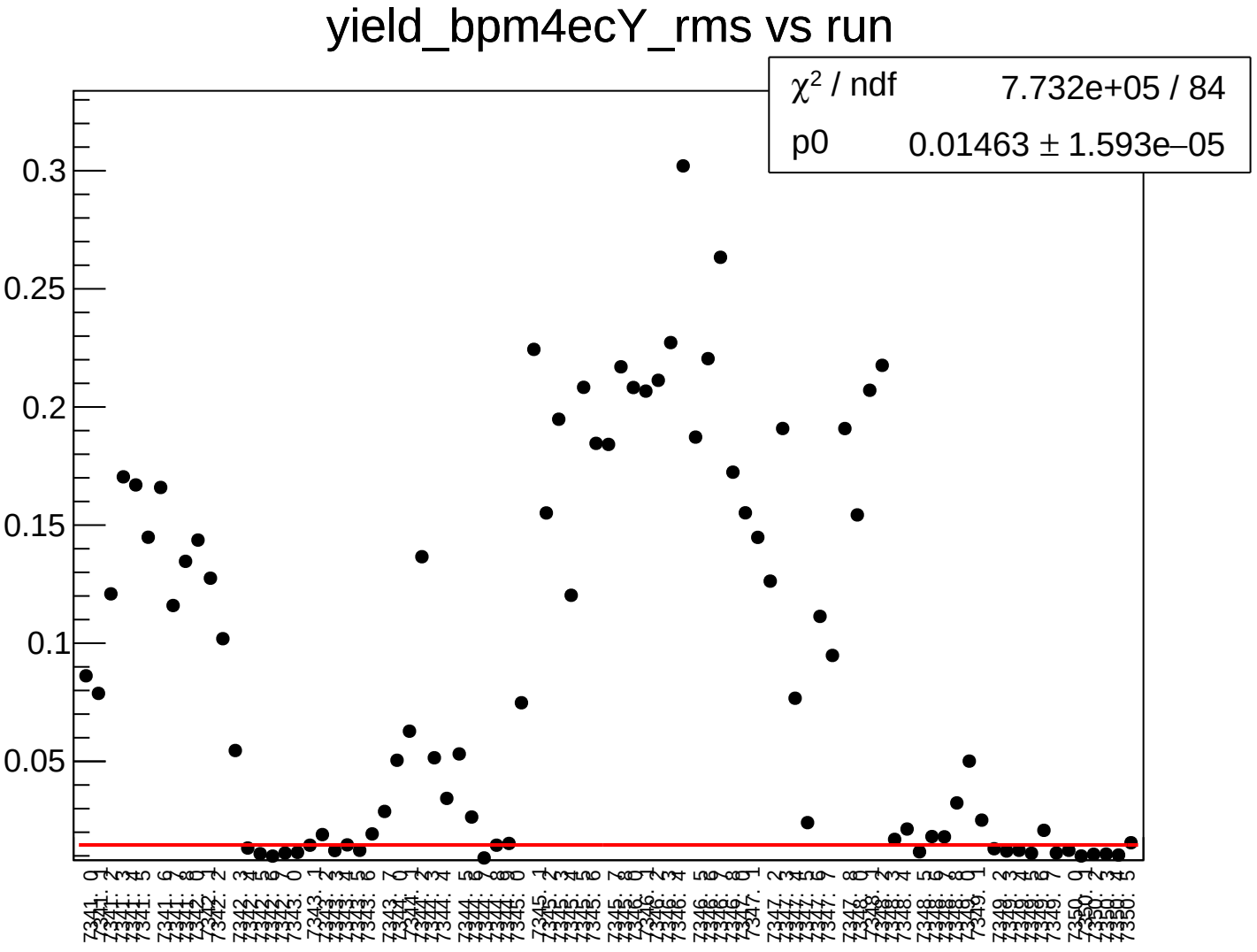

yield_bpm4acY_rms vs run
χ² / ndf 6.68e+04 / 84
p0 0.01106 ± 8.883e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

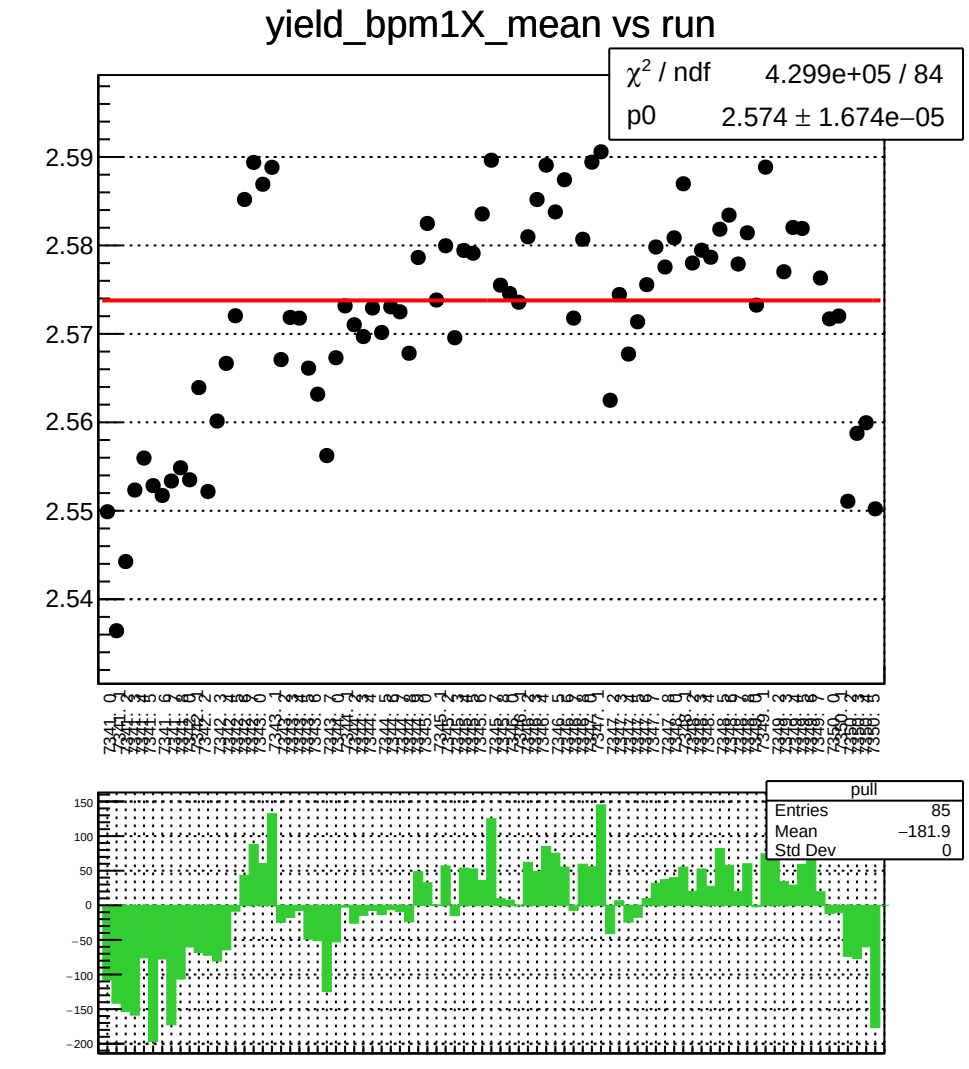

yield_bpm4ecX_mean vs run
χ² / ndf 4.915e+06 / 84
p0 −0.1676 ± 3.998e−05
pull
Entries 85
Mean 31.55
Std Dev 13.06
pull1D
Entries 85
Mean 0
Std Dev 0

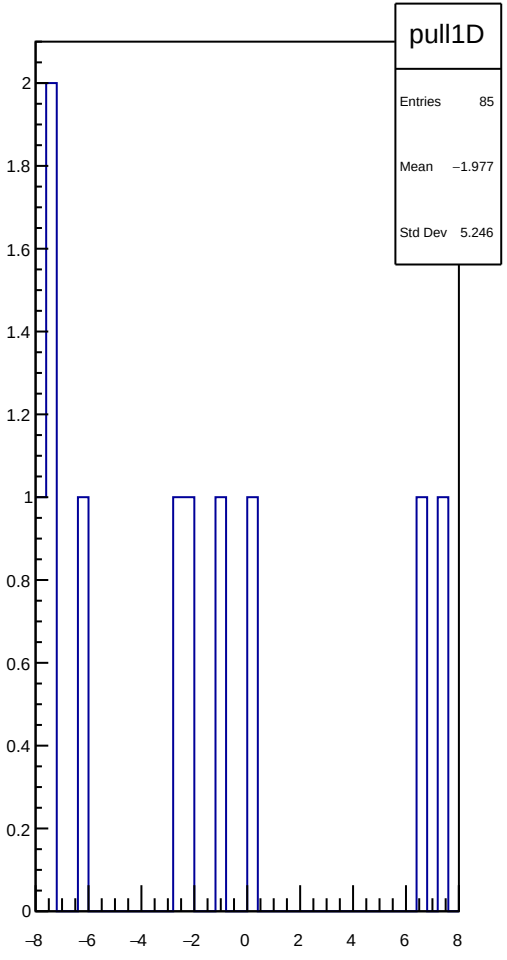

yield_bpm4ecX_rms vs run
χ² / ndf 6.487e+05 / 84
p0 0.02781 ± 2.827e–05
0.3
0.25
0.2
0.15
0.1
0.05

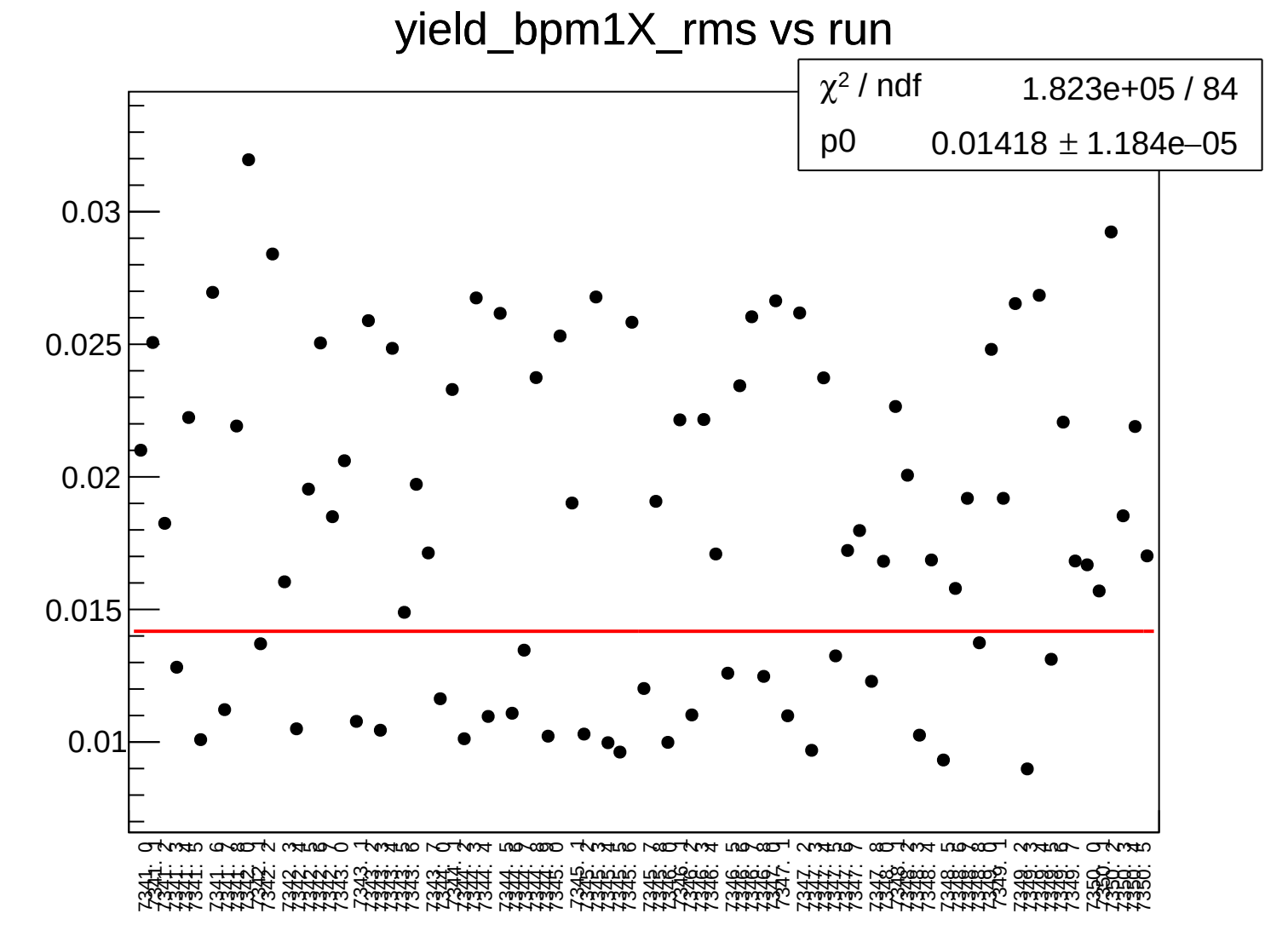

yield_bpm4ecY_mean vs run
χ² / ndf 4.172e+06 / 84
p0 −0.01588 ± 2.253e−05
pull
Entries 85
Mean 34.54
Std Dev 16.62

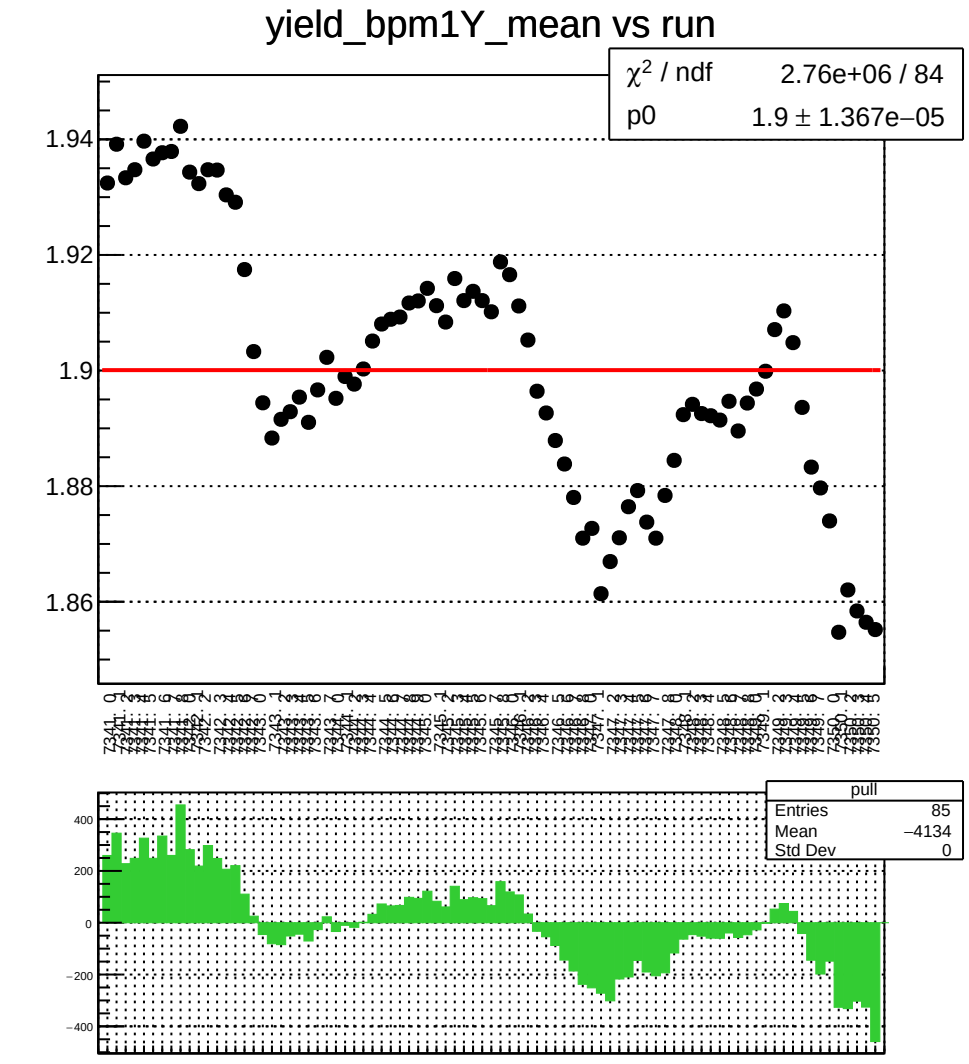

pull1D
Entries 85
Mean 5.799
Std Dev 0

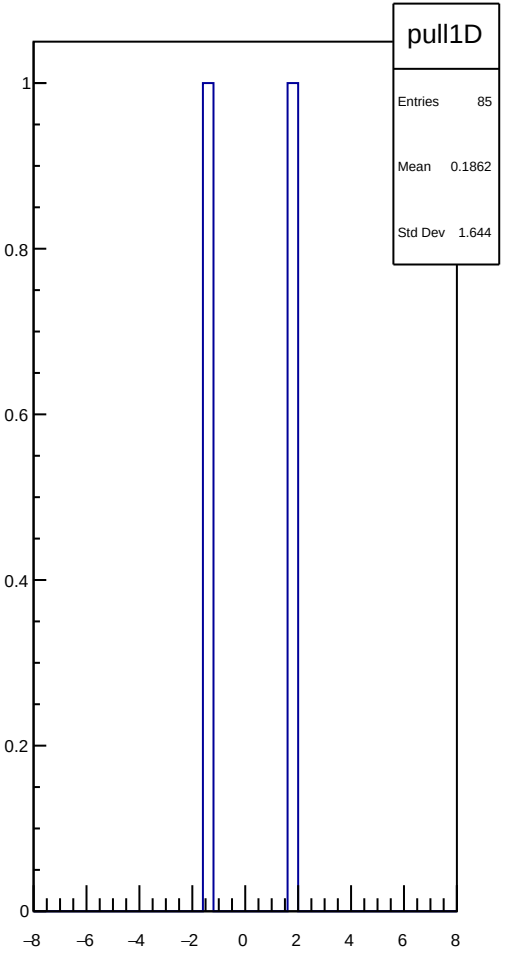

yield_bpm4ecY_rms vs run
χ² / ndf 7.732e+05 / 84
p0 0.01463 ± 1.593e−05
0.3
0.25
0.2
0.15
0.1
0.05

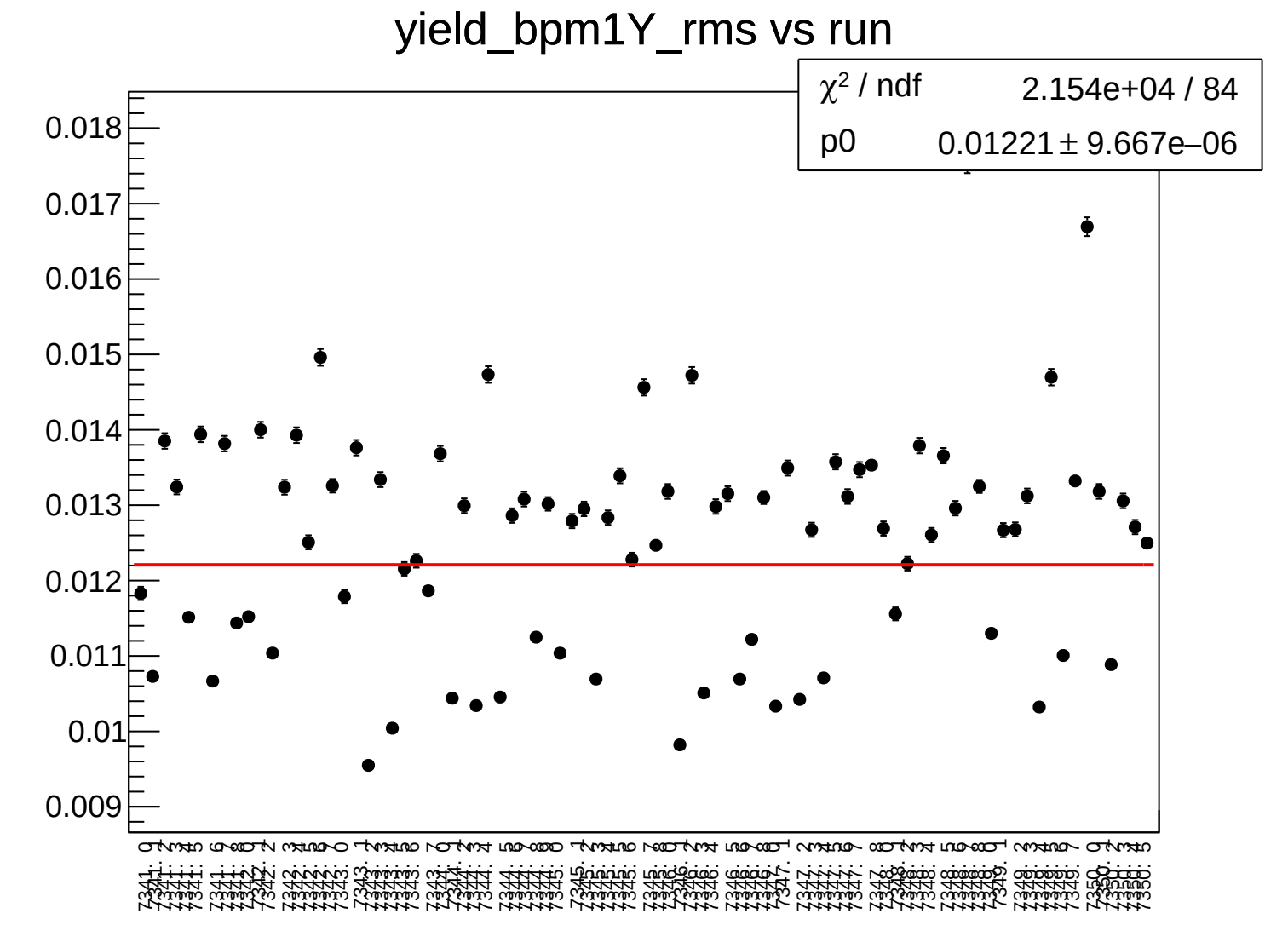

yield_bpm1X_mean vs run
χ² / ndf 4.299e+05 / 84
p0 2.574 ± 1.674e−05
2.59
2.58
2.57
2.56
2.55
2.54
pull
Entries 85
Mean −181.9
Std Dev 0
150
100
50
0
−50
−100
−150
−200

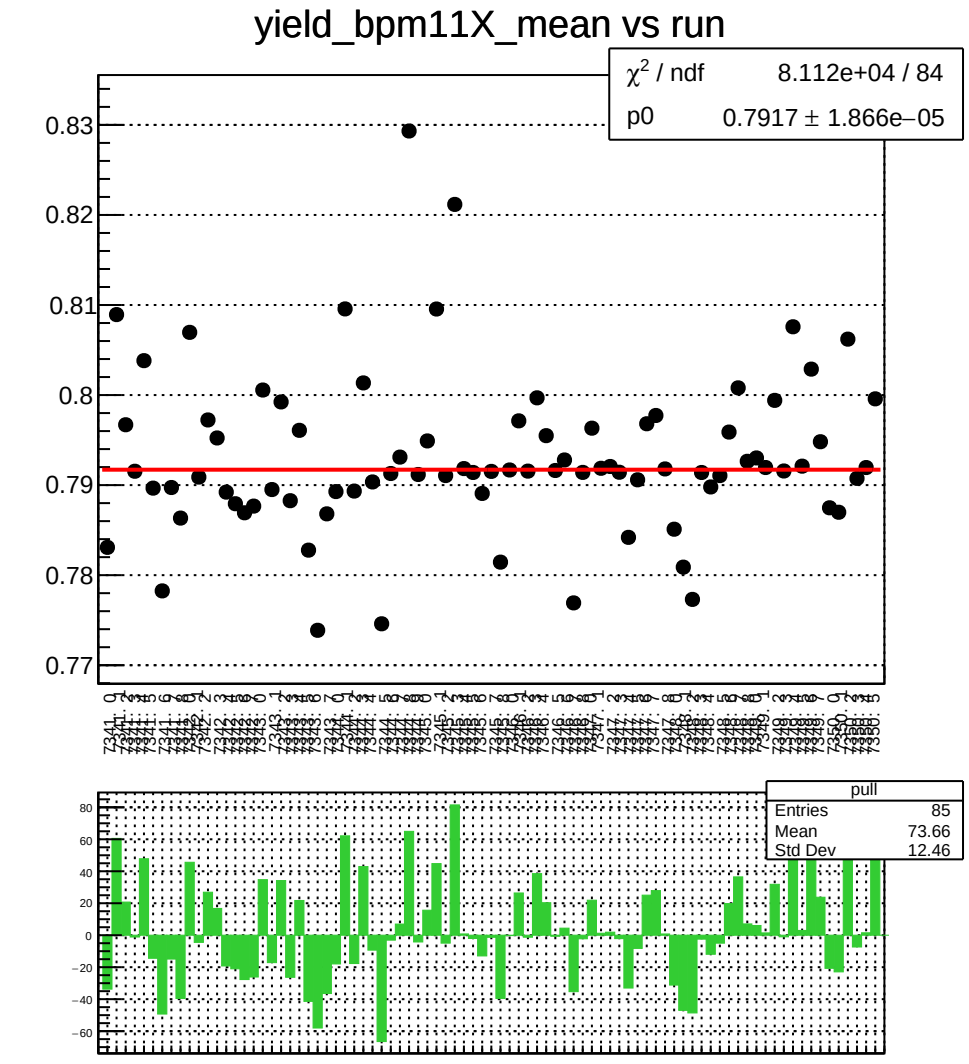

pull1D
Entries 85
Mean −1.977
Std Dev 5.246
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

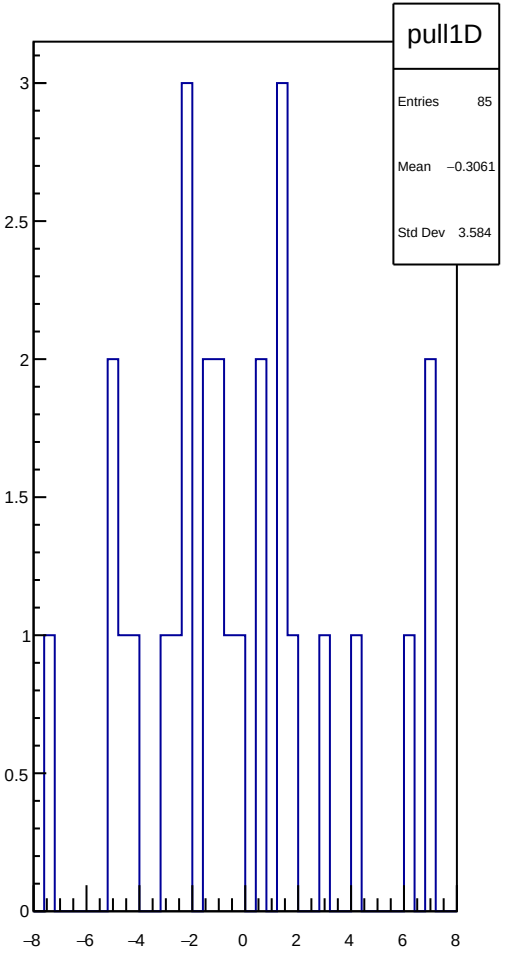

yield_bpm1X_rms vs run
χ² / ndf 1.823e+05 / 84
p0 0.01418 ± 1.184e−05
0.03
0.025
0.02
0.015
0.01

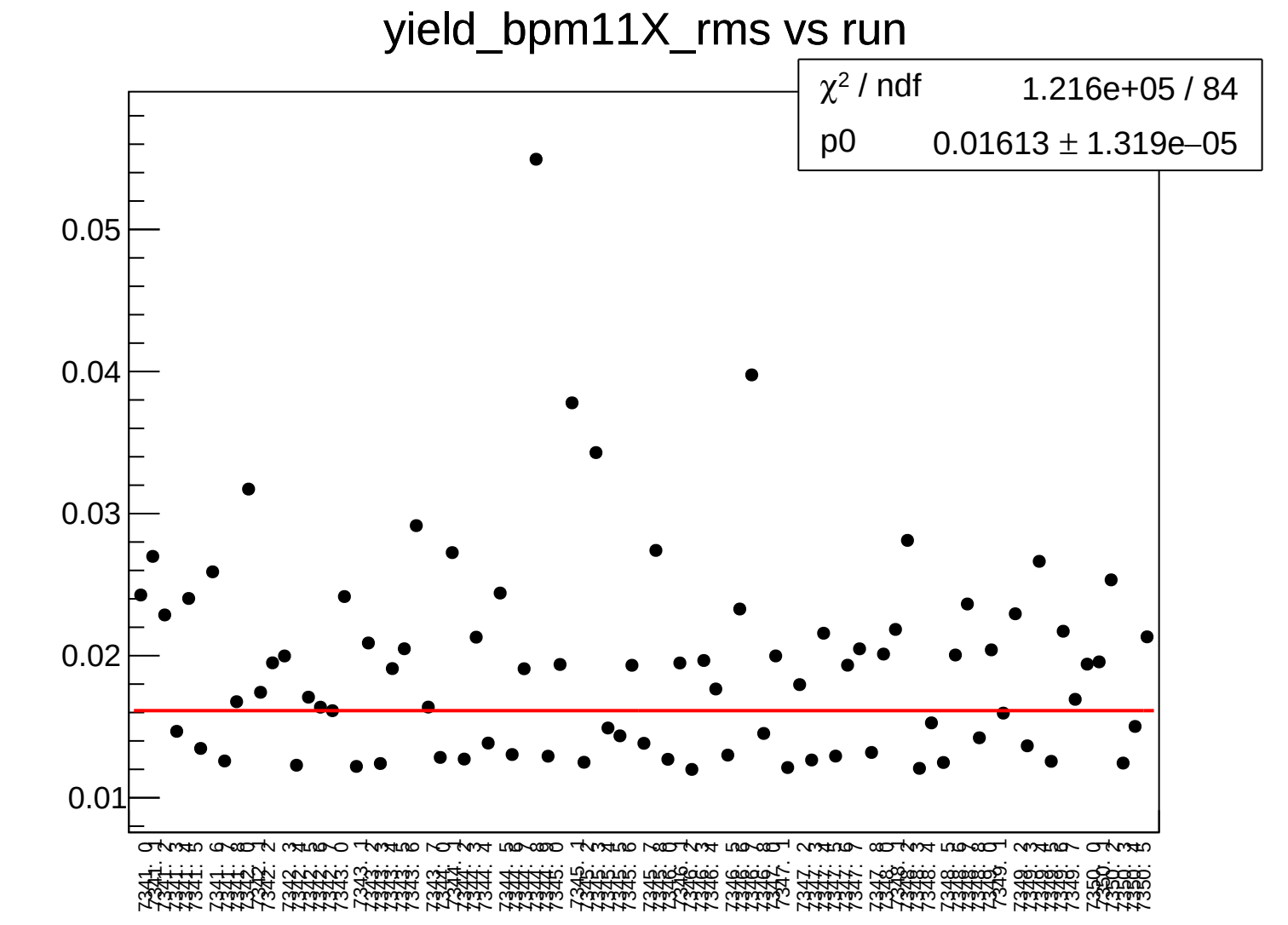

yield_bpm1Y_mean vs run
χ² / ndf 2.76e+06 / 84
p0 1.9 ± 1.367e−05
1.94
1.92
1.9
1.88
1.86
pull
Entries 85
Mean −4134
Std Dev 0
400
200
0
−200
−400

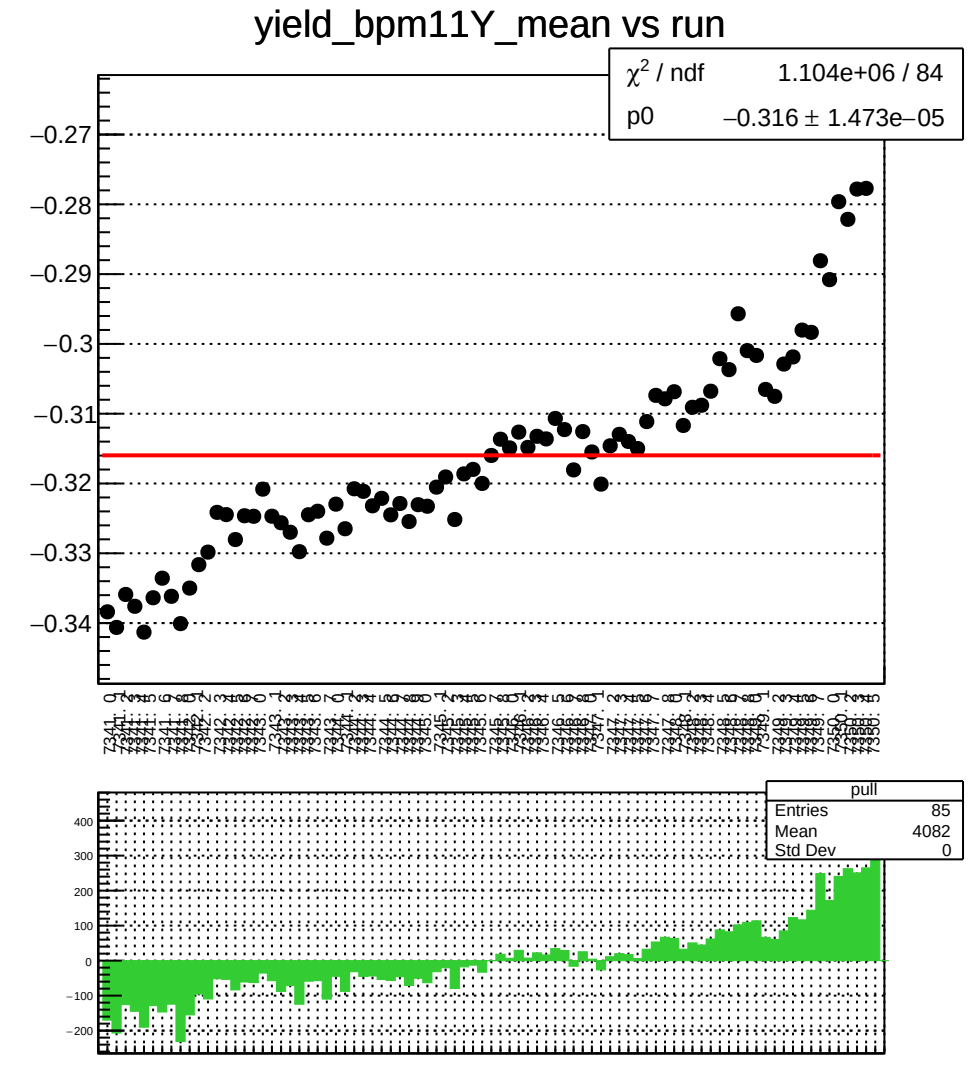

pull1D
Entries 85
Mean 0.1862
Std Dev 1.644
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

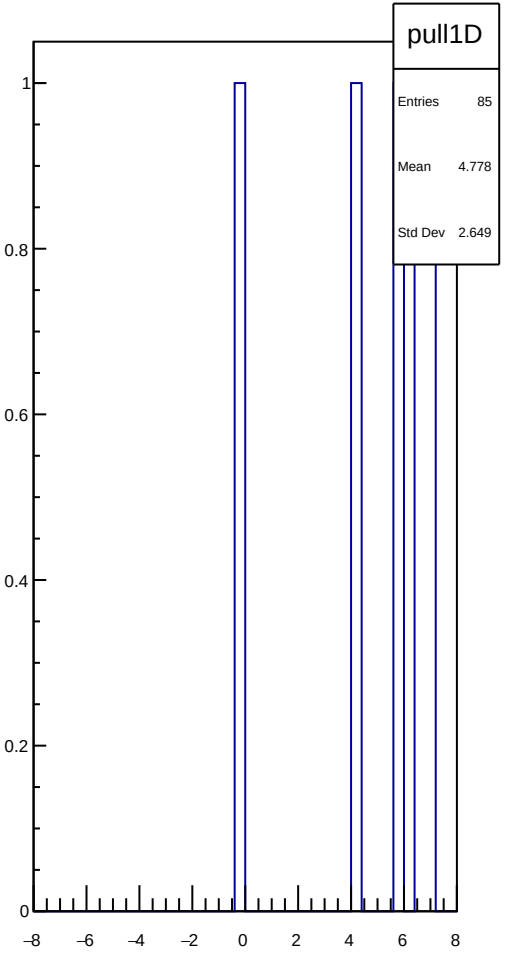

yield_bpm1Y_rms vs run
χ² / ndf 2.154e+04 / 84
p0 0.01221 ± 9.667e–06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

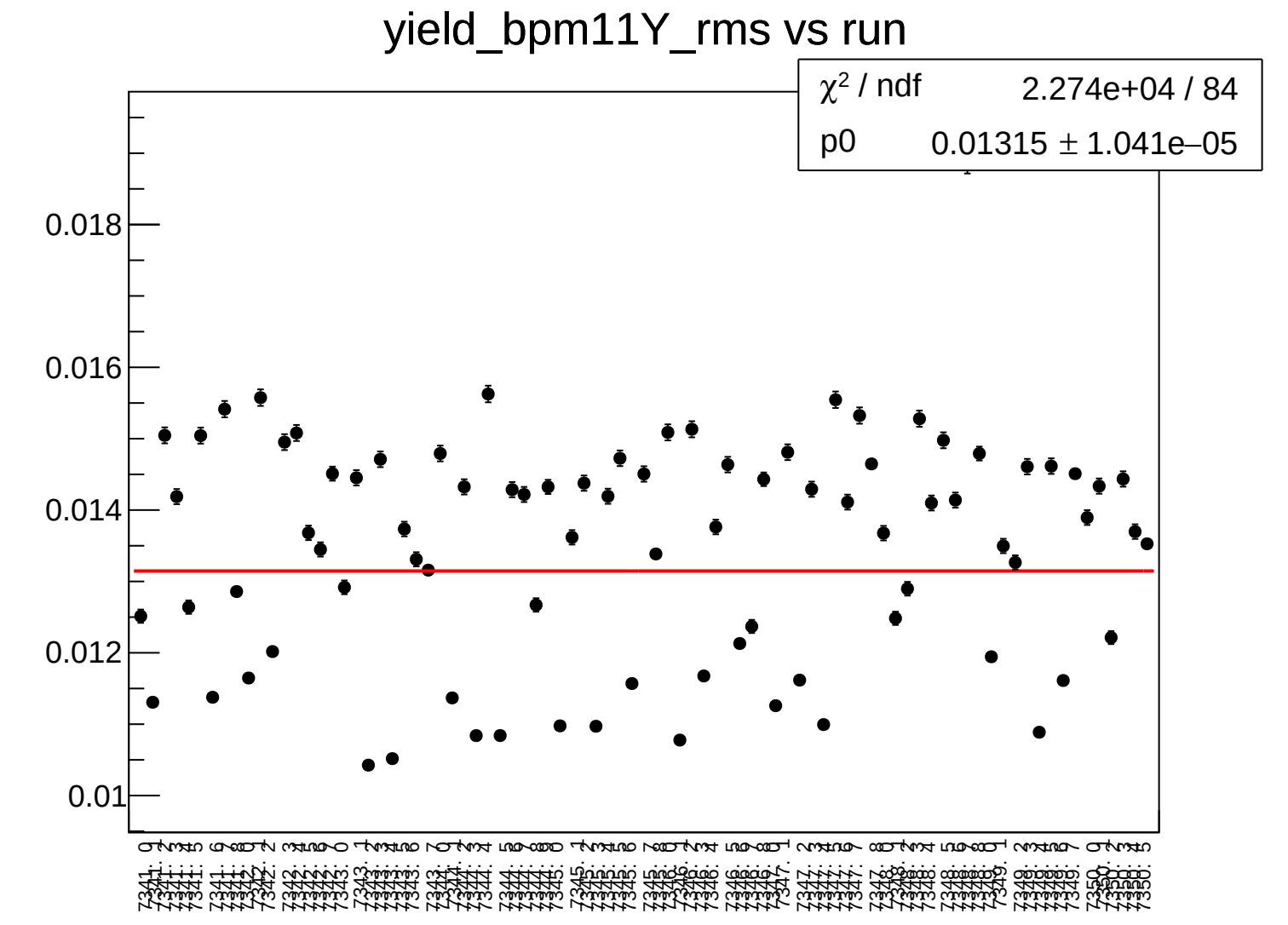

yield_bpm11X_mean vs run
χ² / ndf 8.112e+04 / 84
p0 0.7917 ± 1.866e−05
0.83
0.82
0.81
0.8
0.79
0.78
0.77
pull
Entries 85
Mean 73.66
Std Dev 12.46
80
60
40
20
0
−20
−40
−60

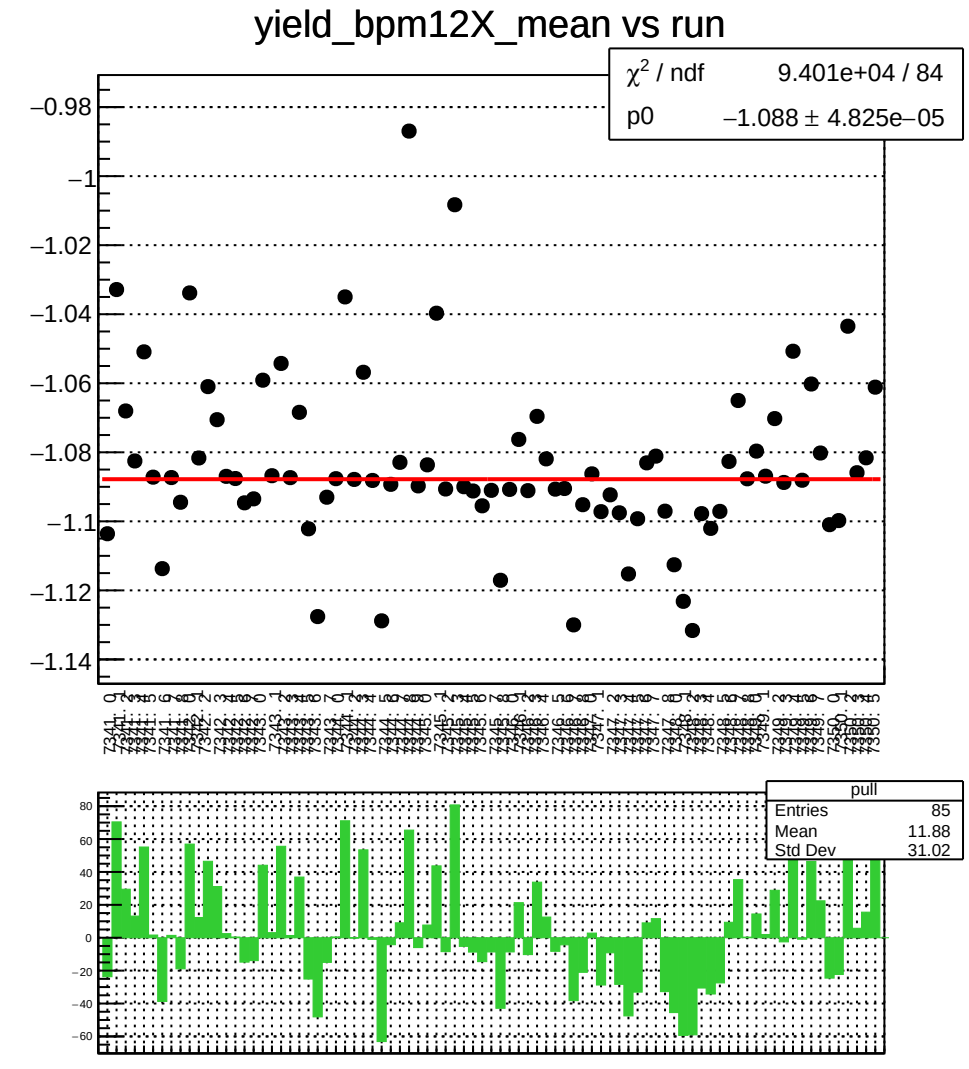

pull1D
Entries 85
Mean −0.3061
Std Dev 3.584
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

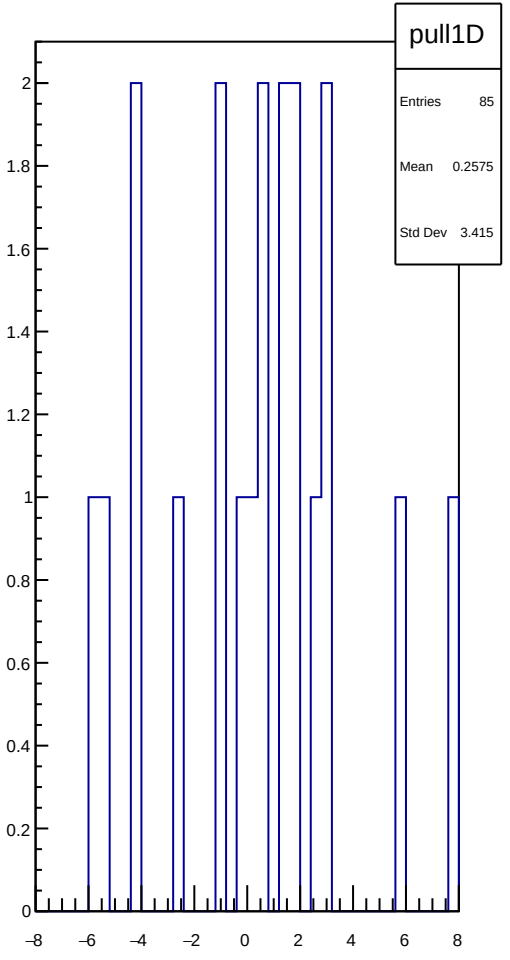

yield_bpm11X_rms vs run
χ² / ndf 1.216e+05 / 84
p0 0.01613 ± 1.319e–05
0.05
0.04
0.03
0.02
0.01

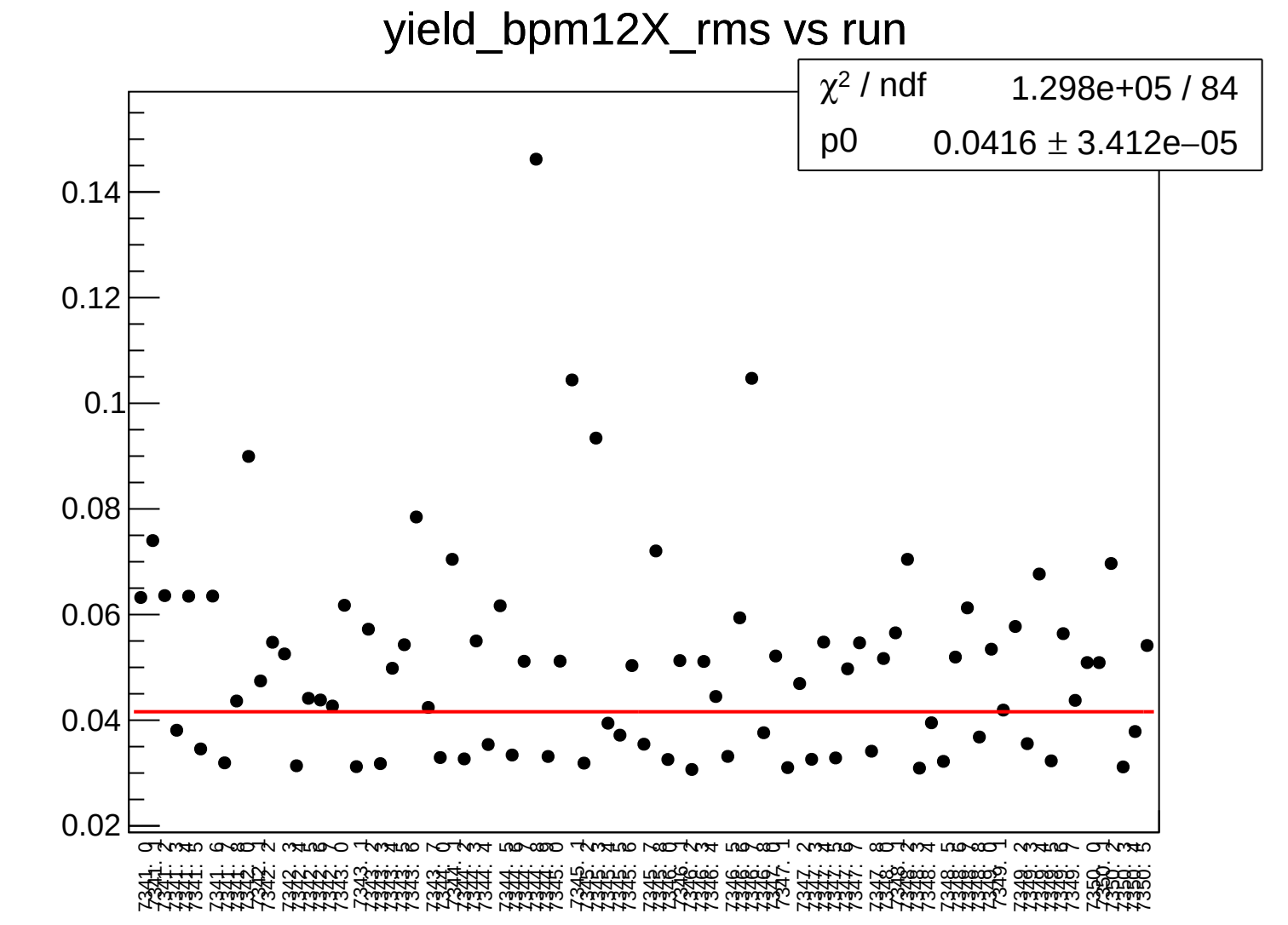

yield_bpm11Y_mean vs run
χ² / ndf 1.104e+06 / 84
p0 −0.316 ± 1.473e−05
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
pull
Entries 85
Mean 4082
Std Dev 0
400
300
200
100
0
−100
−200

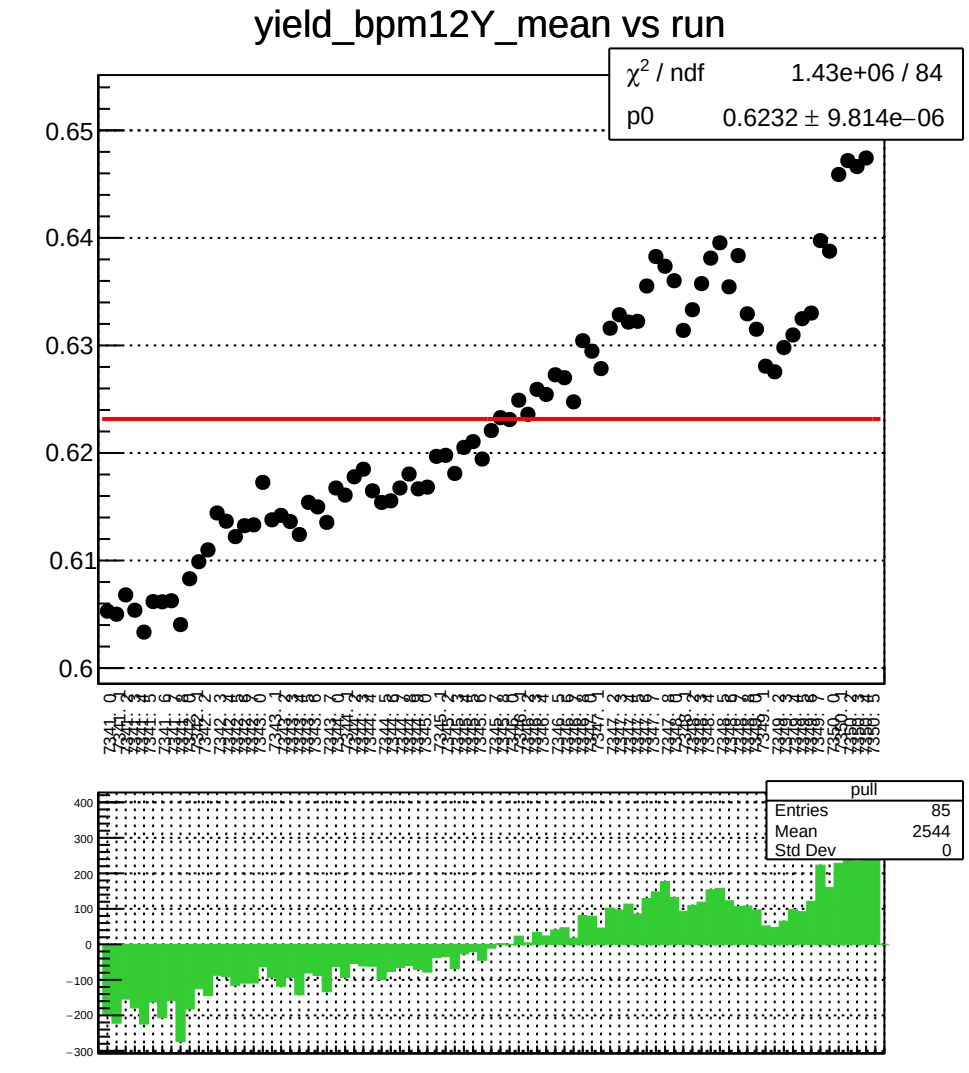

pull1D
Entries 85
Mean 4.778
Std Dev 2.649
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

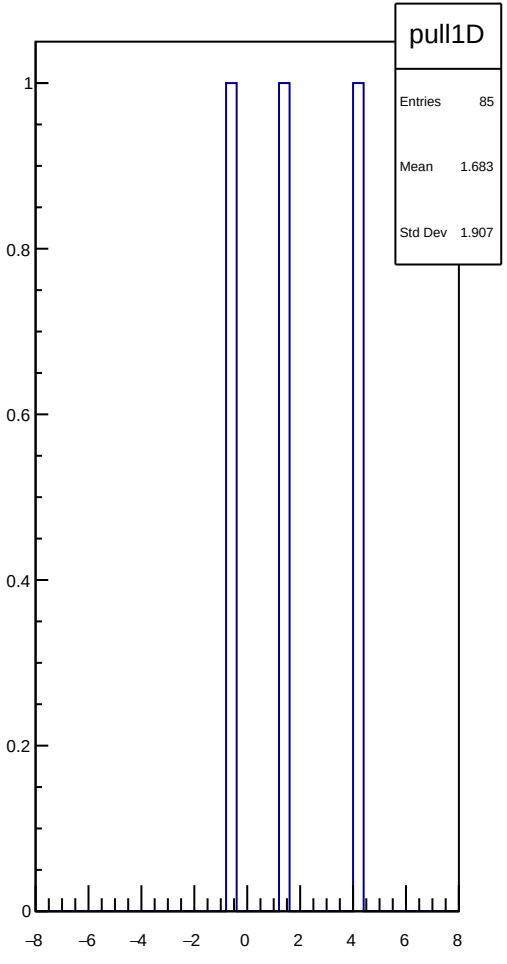

yield_bpm11Y_rms vs run
χ² / ndf 2.274e+04 / 84
p0 0.01315 ± 1.041e−05
0.018
0.016
0.014
0.012
0.01

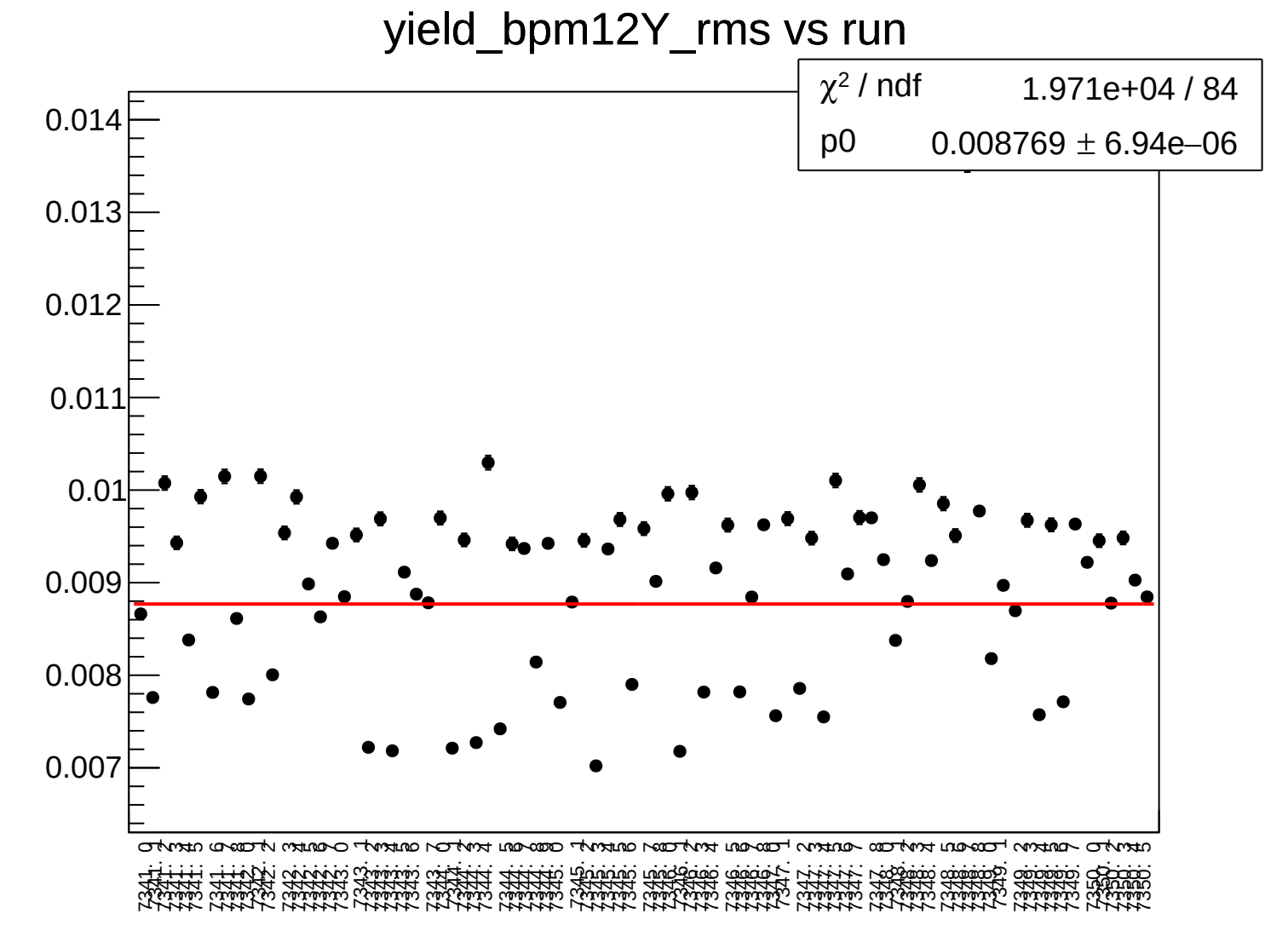

yield_bpm12X_mean vs run
χ² / ndf 9.401e+04 / 84
p0 −1.088 ± 4.825e−05
−0.98
−1
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
pull
Entries 85
Mean 11.88
Std Dev 31.02
80
60
40
20
0
−20
−40
−60

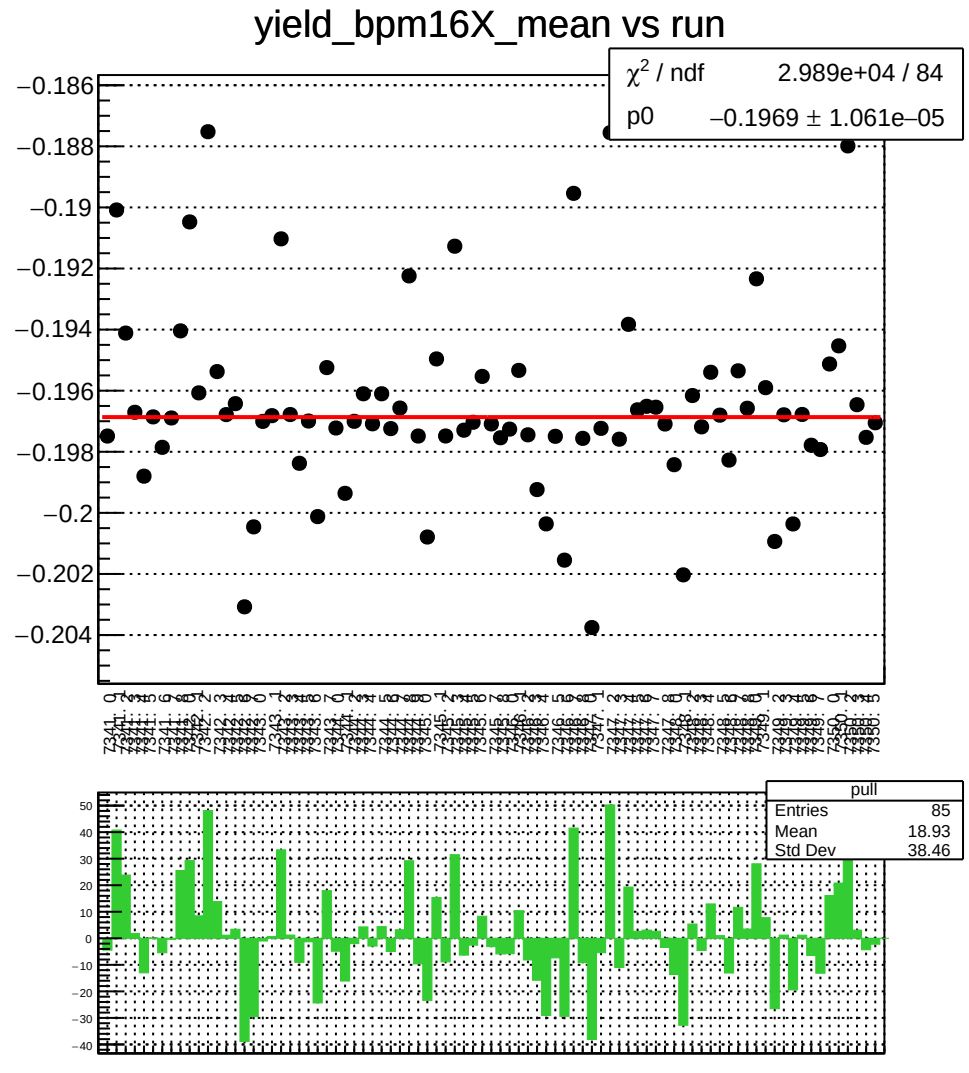

pull1D
Entries 85
Mean 0.2575
Std Dev 3.415
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

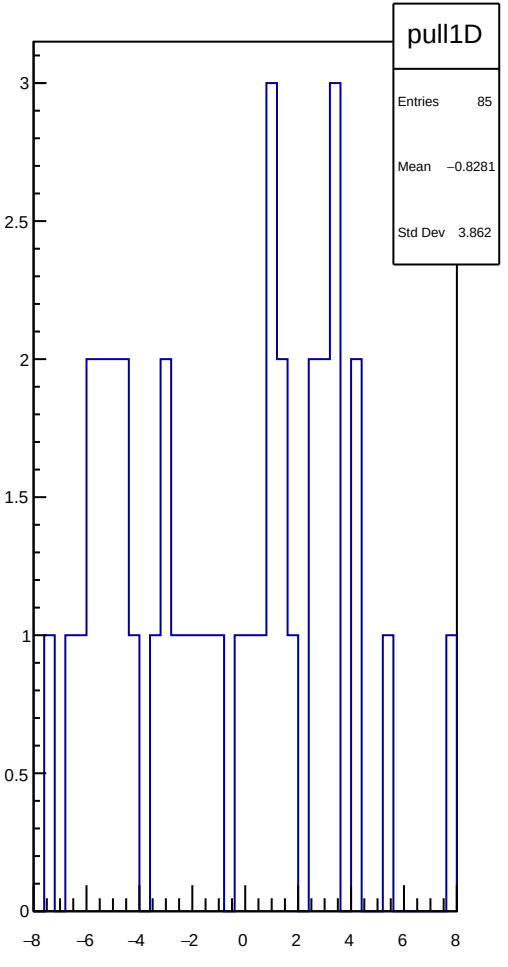

yield_bpm12X_rms vs run
χ² / ndf 1.298e+05 / 84
p0 0.0416 ± 3.412e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

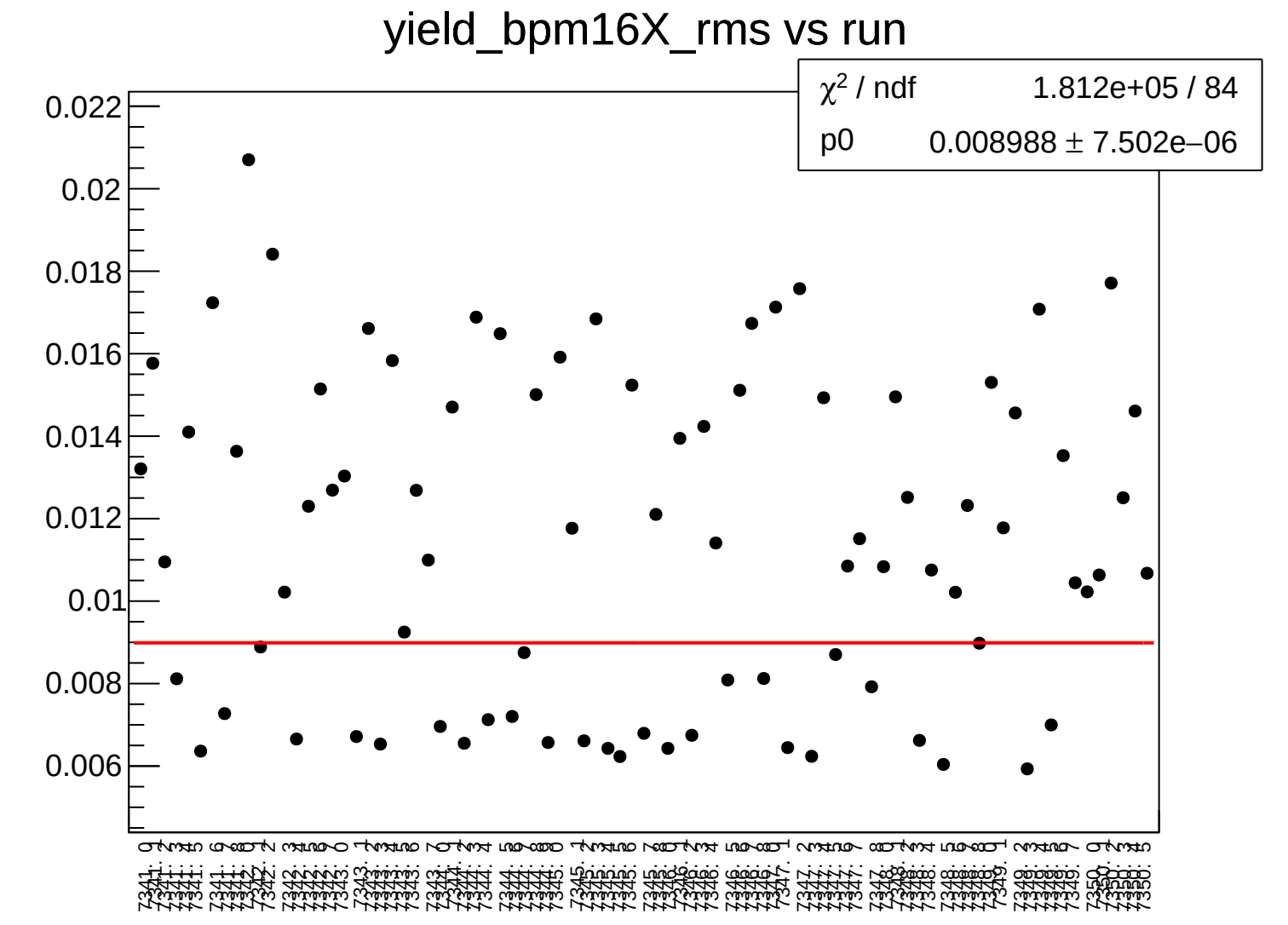

yield_bpm12Y_mean vs run
χ² / ndf 1.43e+06 / 84
p0 0.6232 ± 9.814e−06
0.65
0.64
0.63
0.62
0.61
0.6
pull
Entries 85
Mean 2544
Std Dev 0
400
300
200
100
0
−100
−200
−300

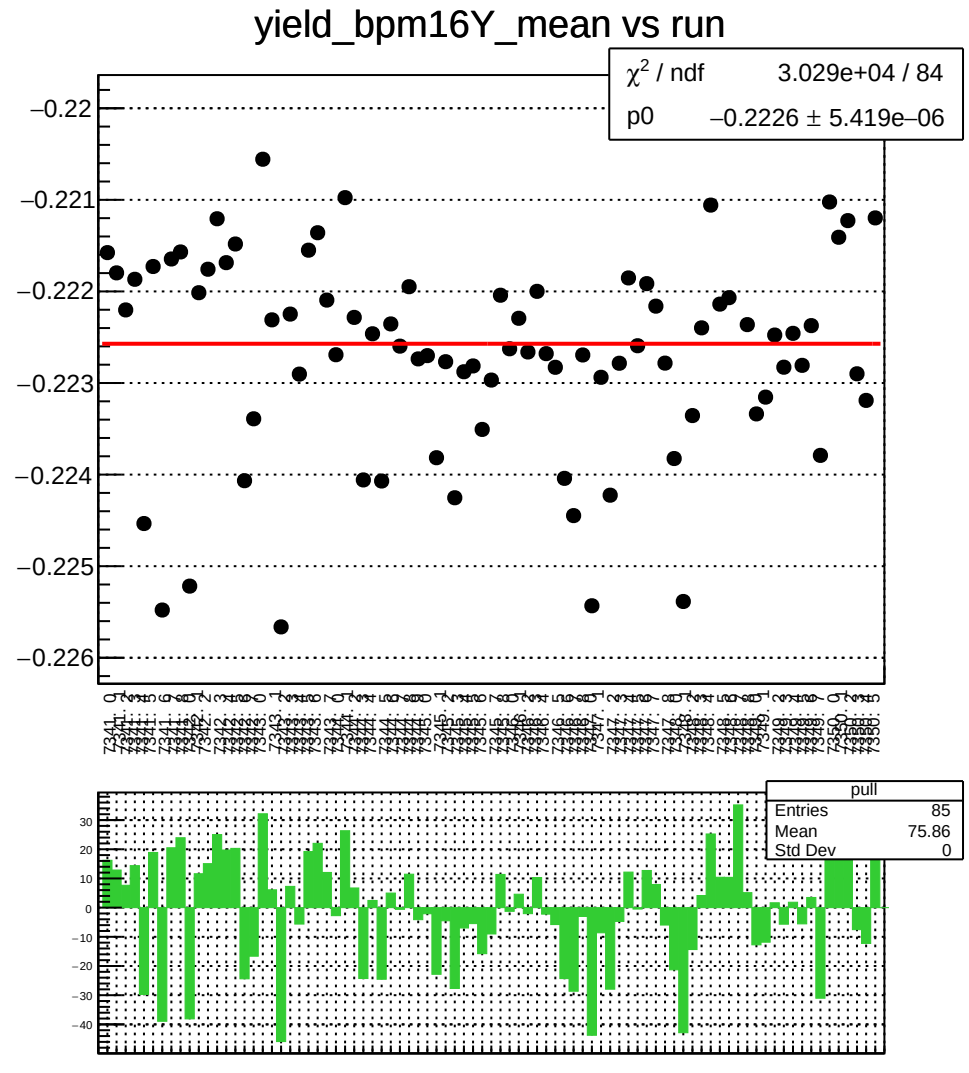

pull1D
Entries 85
Mean 1.683
Std Dev 1.907
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

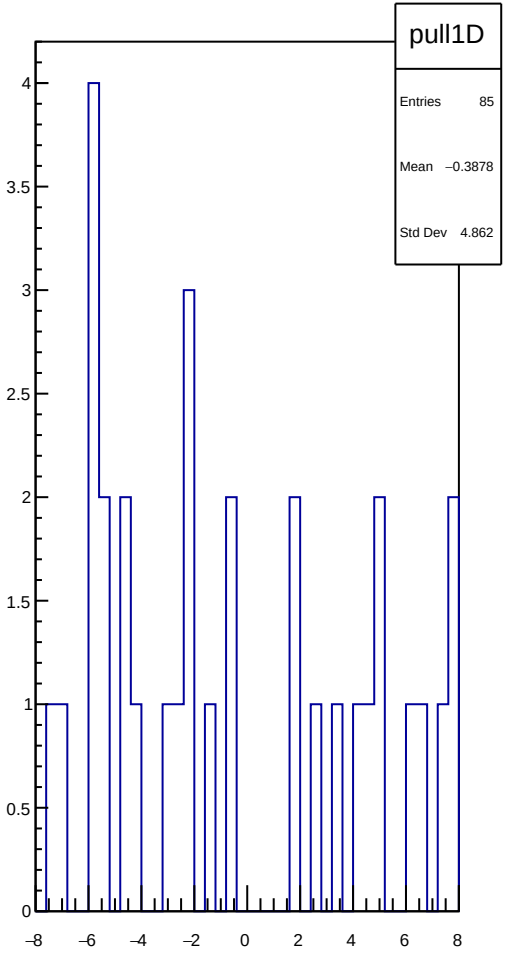

yield_bpm12Y_rms vs run
χ² / ndf 1.971e+04 / 84
p0 0.008769 ± 6.94e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

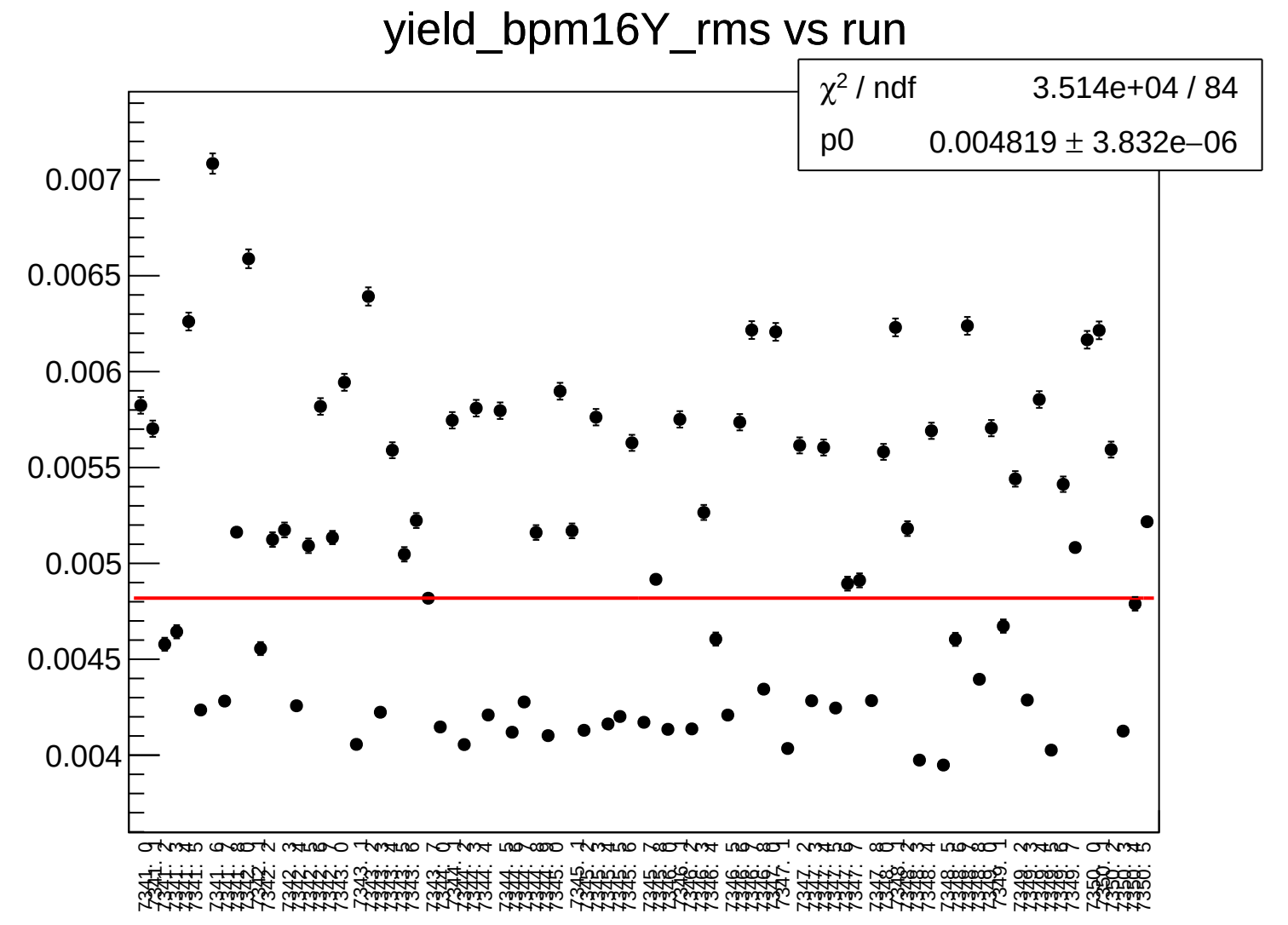

yield_bpm16X_mean vs run
χ² / ndf 2.989e+04 / 84
p0 −0.1969 ± 1.061e−05
−0.186
−0.188
−0.19
−0.192
−0.194
−0.196
−0.198
−0.2
−0.202
−0.204
pull
Entries 85
Mean 18.93
Std Dev 38.46
50
40
30
20
10
0
−10
−20
−30
−40

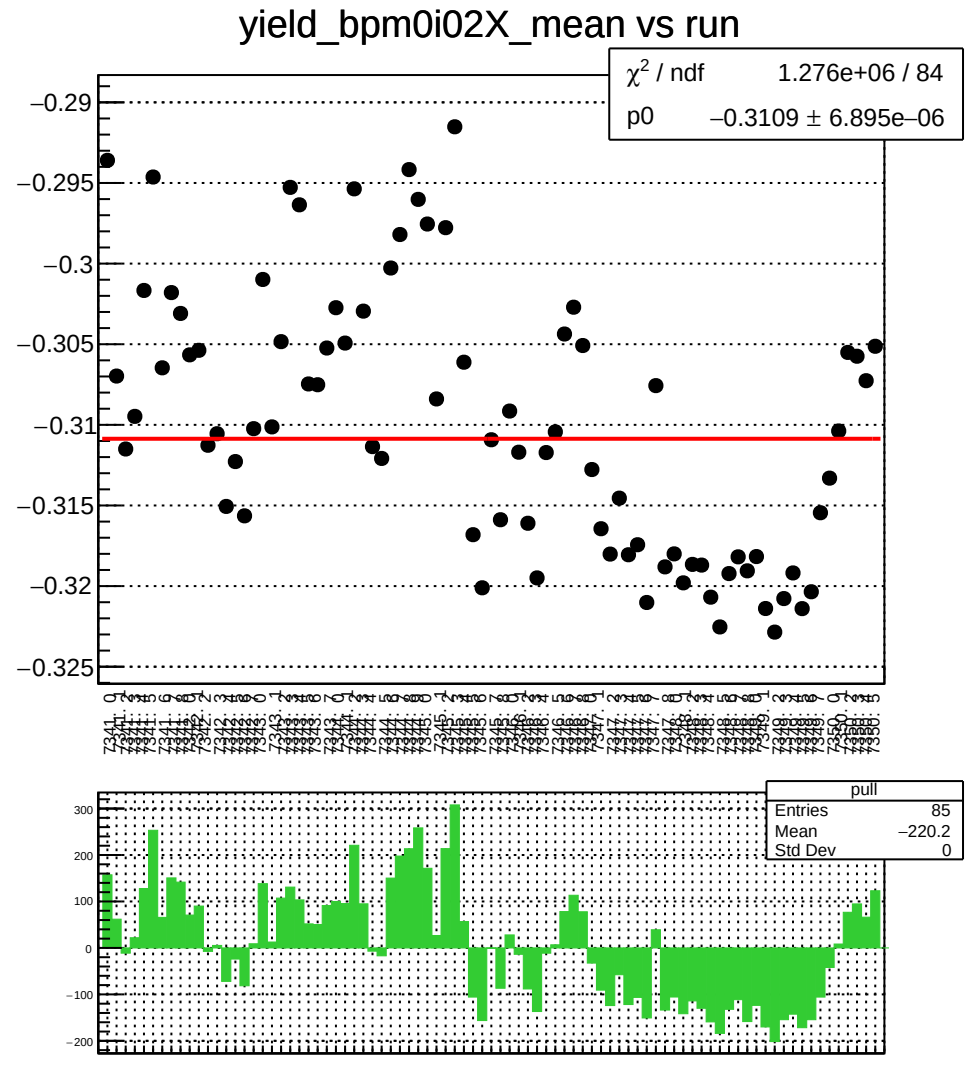

pull1D
Entries 85
Mean −0.8281
Std Dev 3.862
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

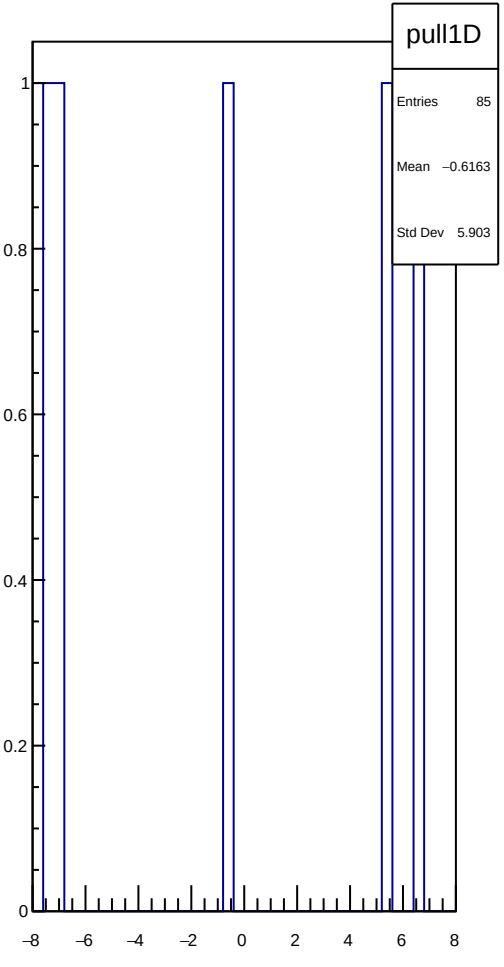

yield_bpm16X_rms vs run
χ² / ndf 1.812e+05 / 84
p0 0.008988 ± 7.502e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

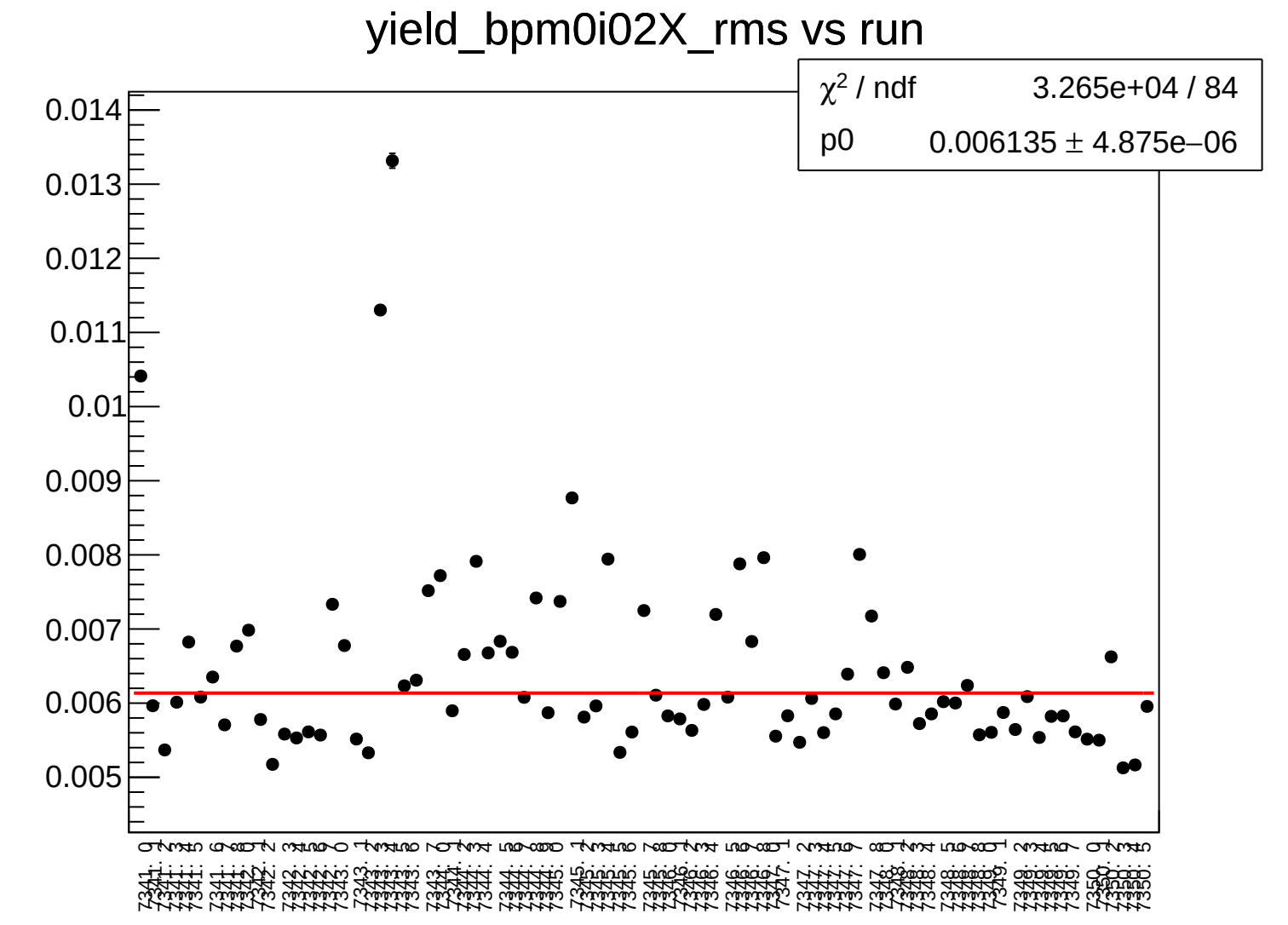

yield_bpm16Y_mean vs run
χ² / ndf 3.029e+04 / 84
p0 −0.2226 ± 5.419e−06
−0.22
−0.221
−0.222
−0.223
−0.224
−0.225
−0.226
pull
Entries 85
Mean 75.86
Std Dev 0
30
20
10
0
−10
−20
−30
−40

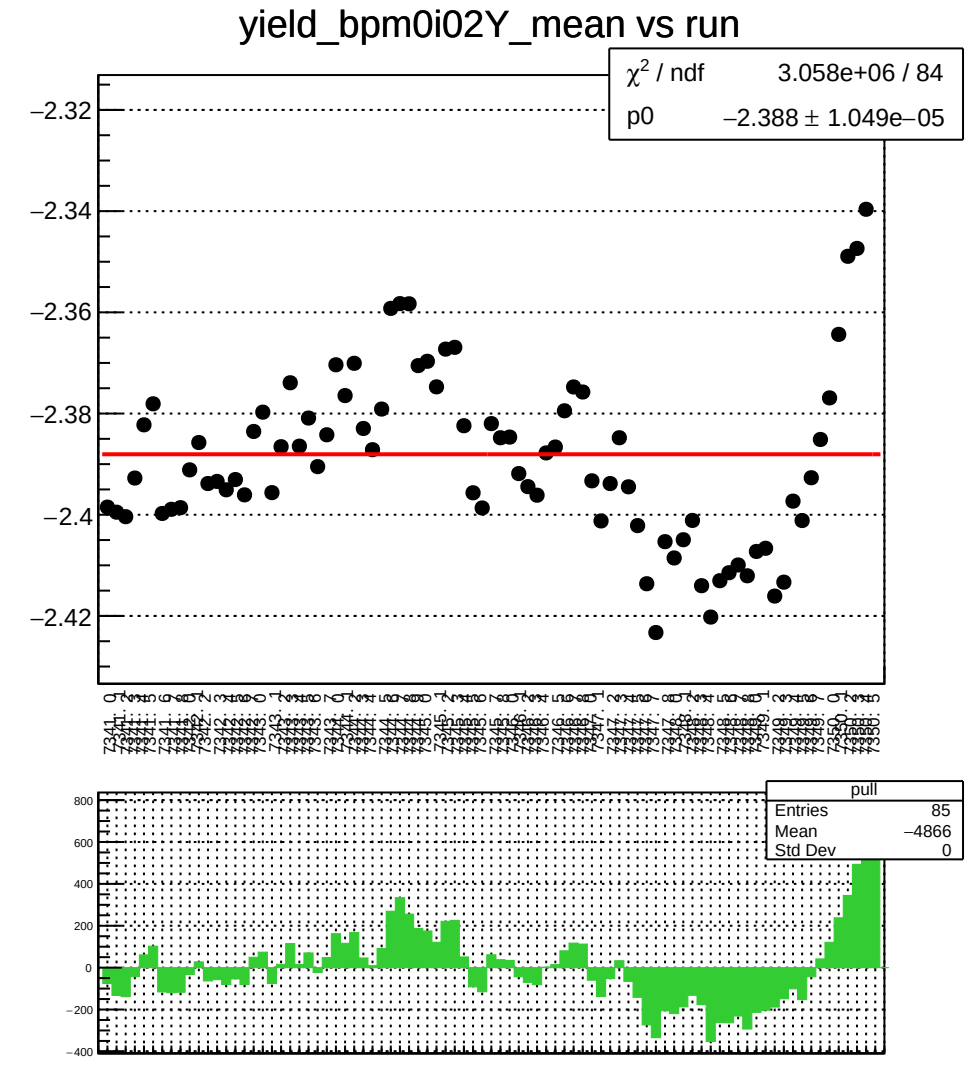

pull1D
Entries 85
Mean −0.3878
Std Dev 4.862
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

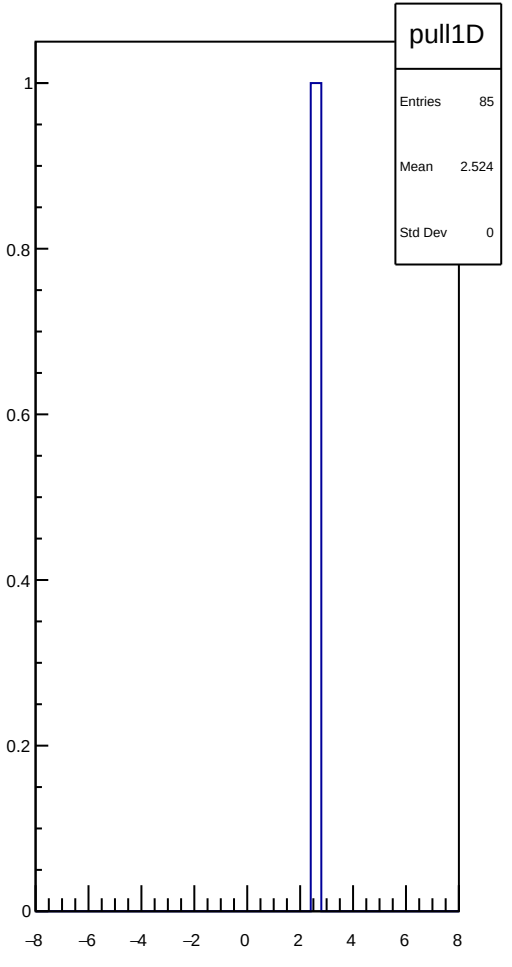

yield_bpm16Y_rms vs run
χ² / ndf 3.514e+04 / 84
p0 0.004819 ± 3.832e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

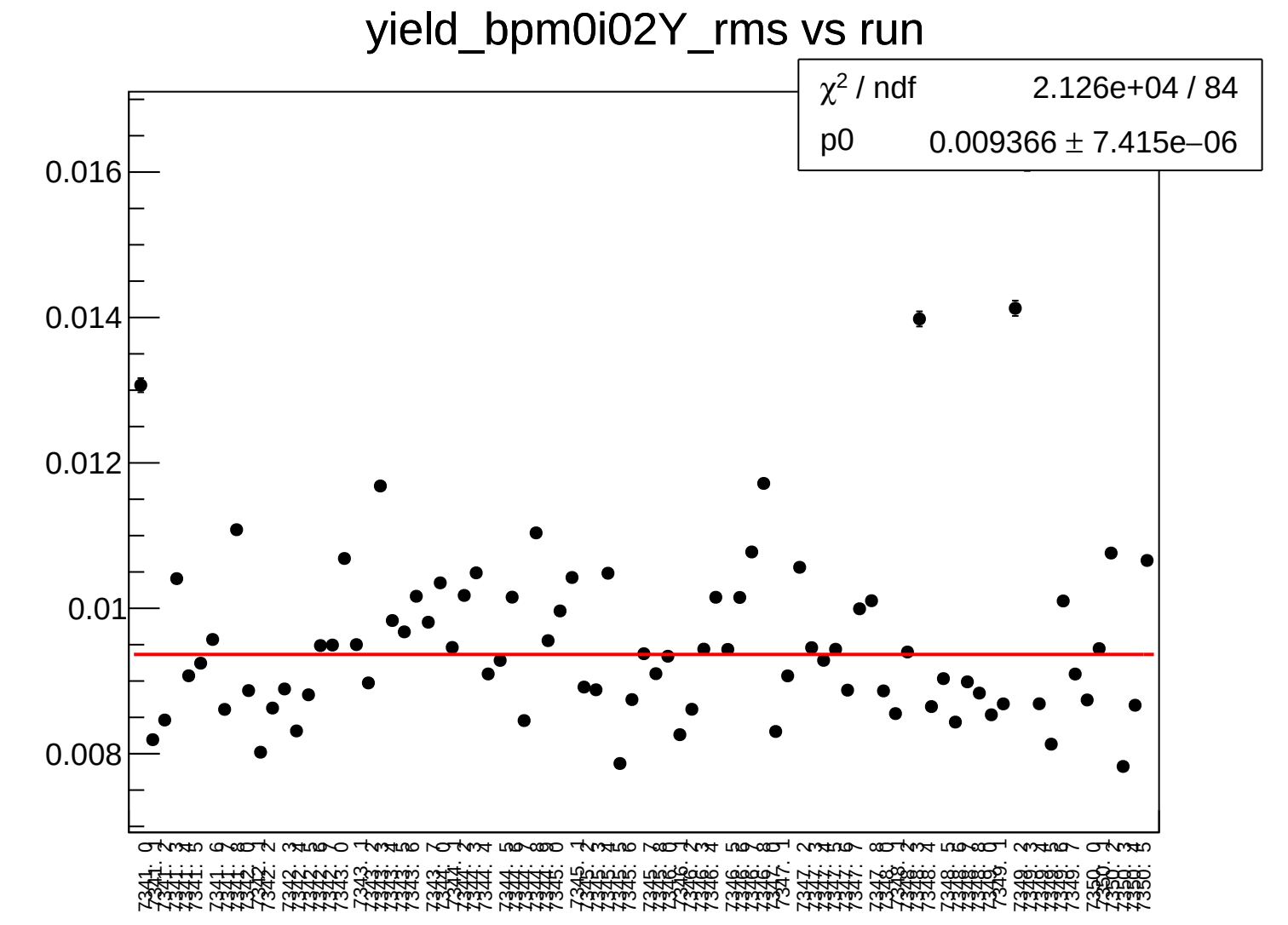

yield_bpm0i02X_mean vs run
χ² / ndf 1.276e+06 / 84
p0 −0.3109 ± 6.895e−06
−0.29
−0.295
−0.3
−0.305
−0.31
−0.315
−0.32
−0.325
pull
Entries 85
Mean −220.2
Std Dev 0
300
200
100
0
−100
−200

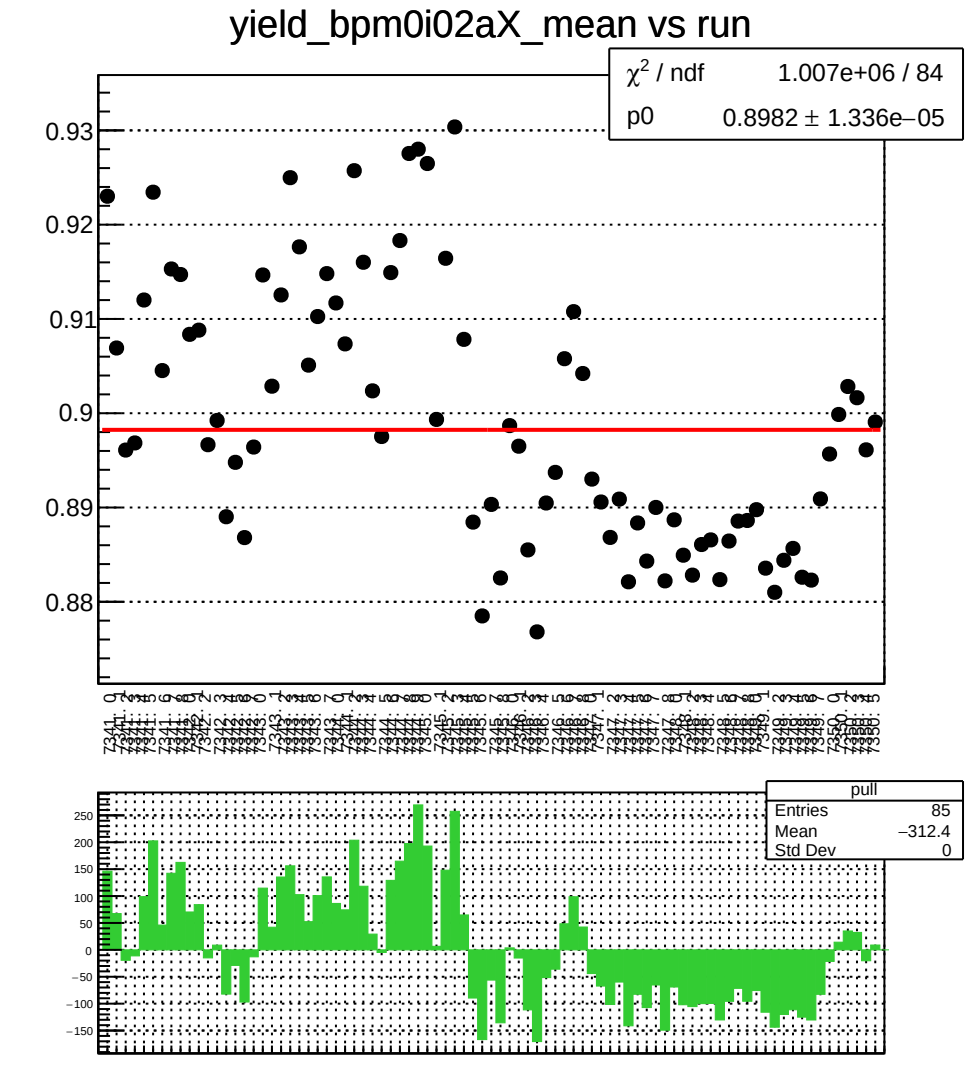

pull1D
Entries 85
Mean −0.6163
Std Dev 5.903
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

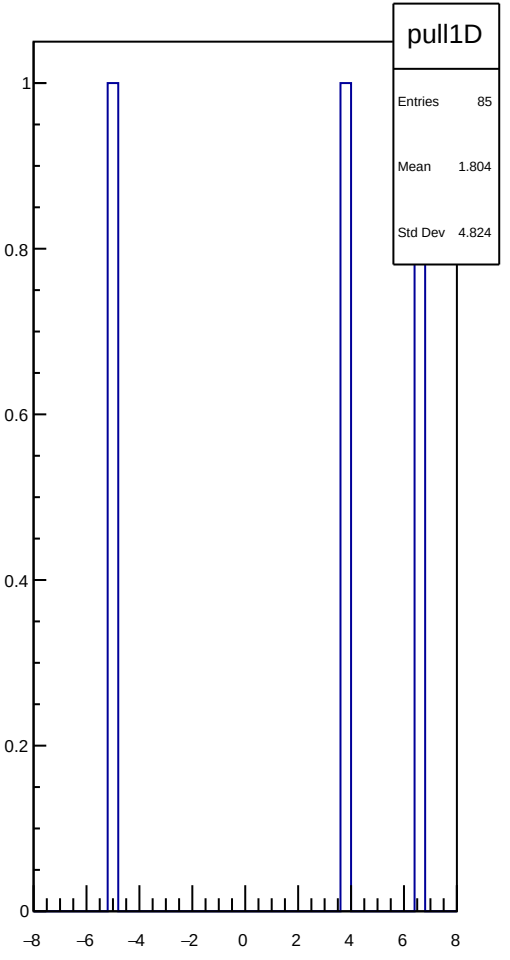

yield_bpm0i02X_rms vs run
χ^2 / ndf 3.265e+04 / 84
p0 0.006135 ± 4.875e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

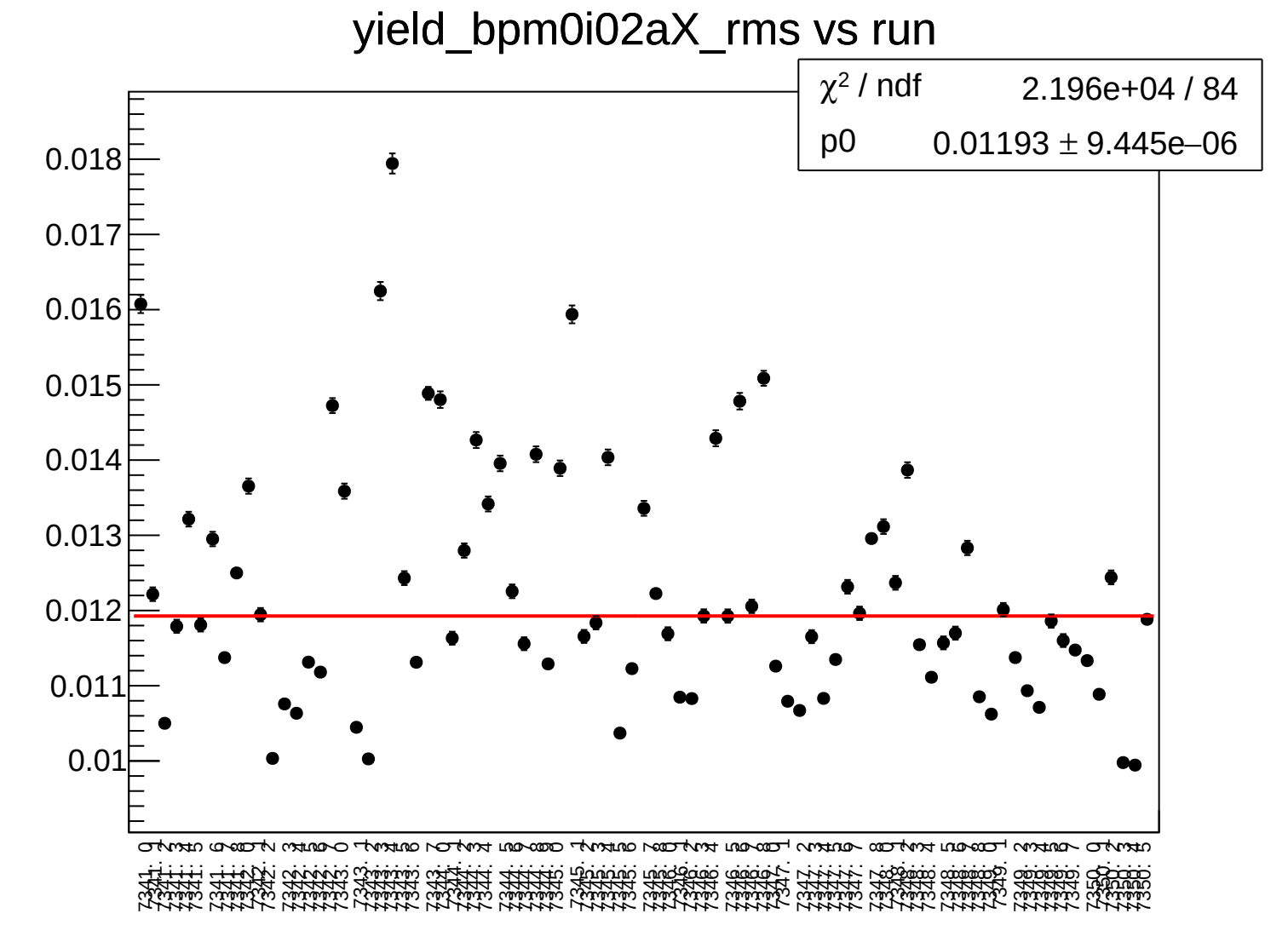

yield_bpm0i02Y_mean vs run
χ² / ndf 3.058e+06 / 84
p0 −2.388 ± 1.049e−05
−2.32
−2.34
−2.36
−2.38
−2.4
−2.42
pull
Entries 85
Mean −4866
Std Dev 0
800
600
400
200
0
−200
−400

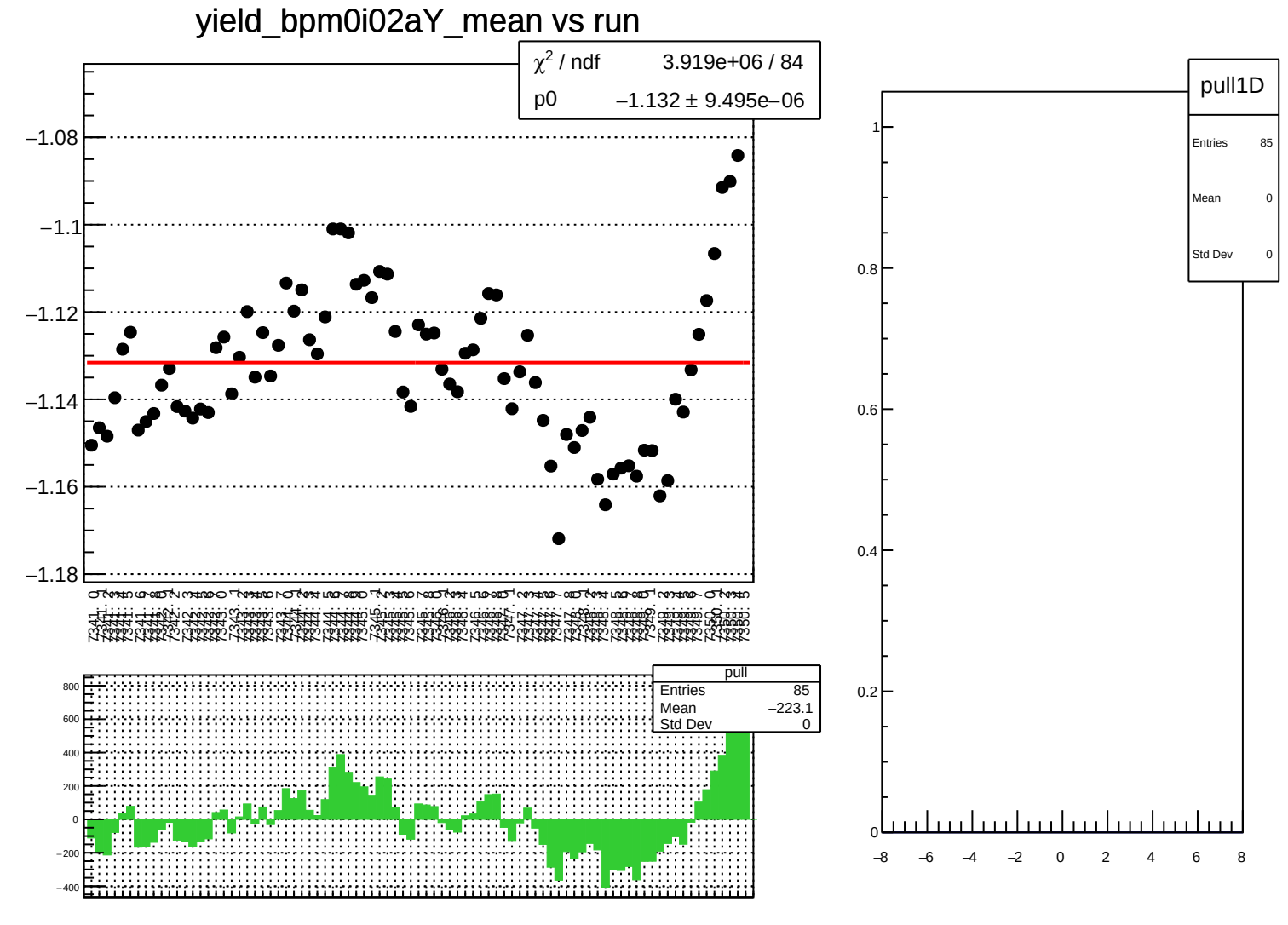

pull1D
Entries 85
Mean 2.524
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

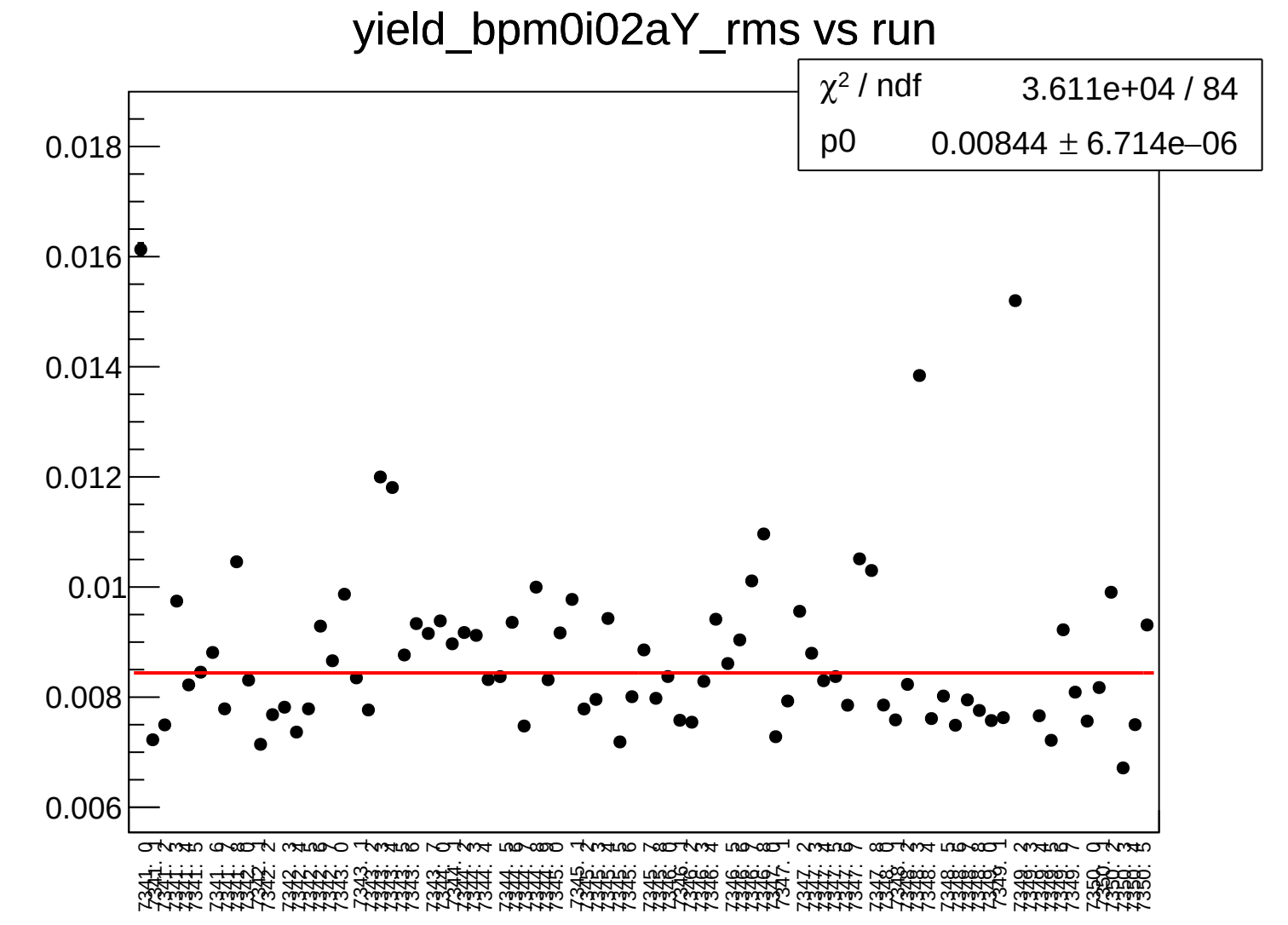

yield_bpm0i02Y_rms vs run
χ^2 / ndf 2.126e+04 / 84
p0 0.009366 ± 7.415e−06
0.016
0.014
0.012
0.01
0.008

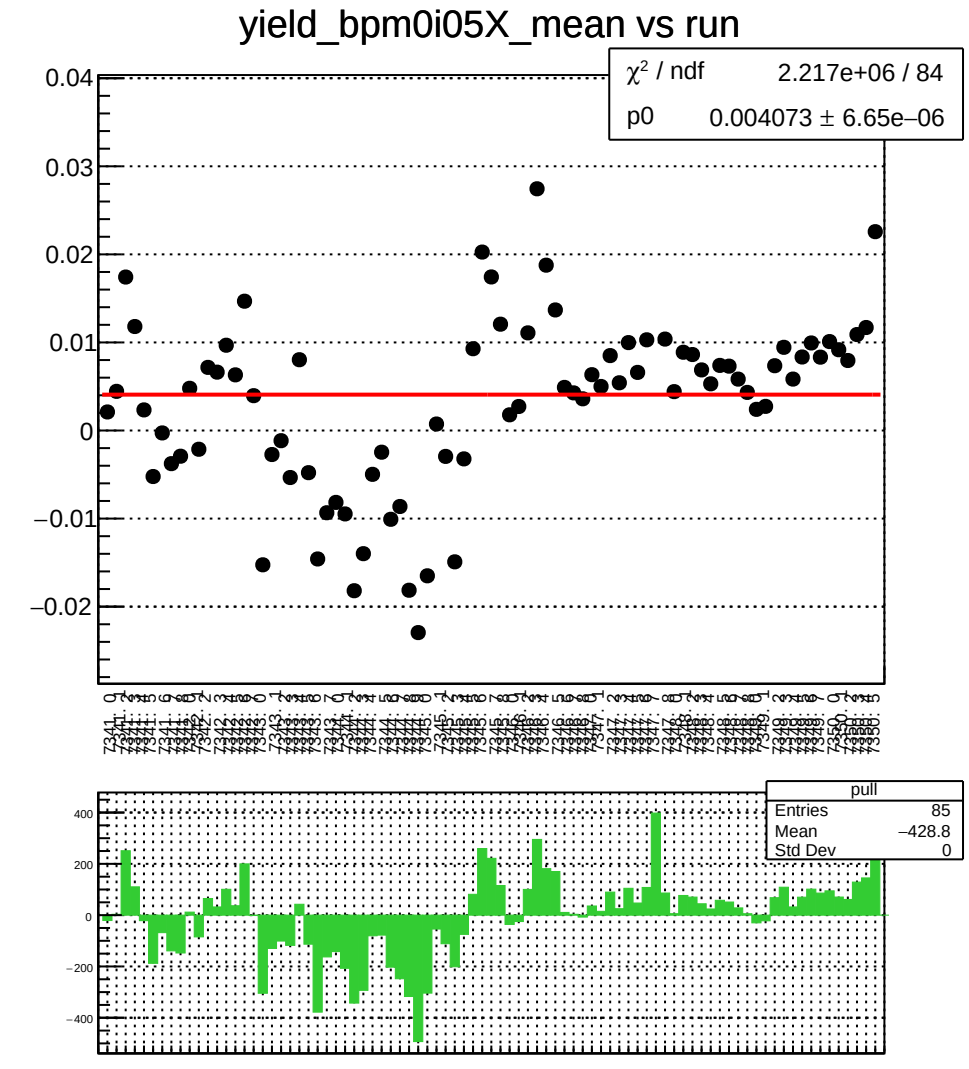

yield_bpm0i02aX_mean vs run
χ² / ndf 1.007e+06 / 84
p0 0.8982 ± 1.336e−05
0.93
0.92
0.91
0.9
0.89
0.88
pull
Entries 85
Mean −312.4
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

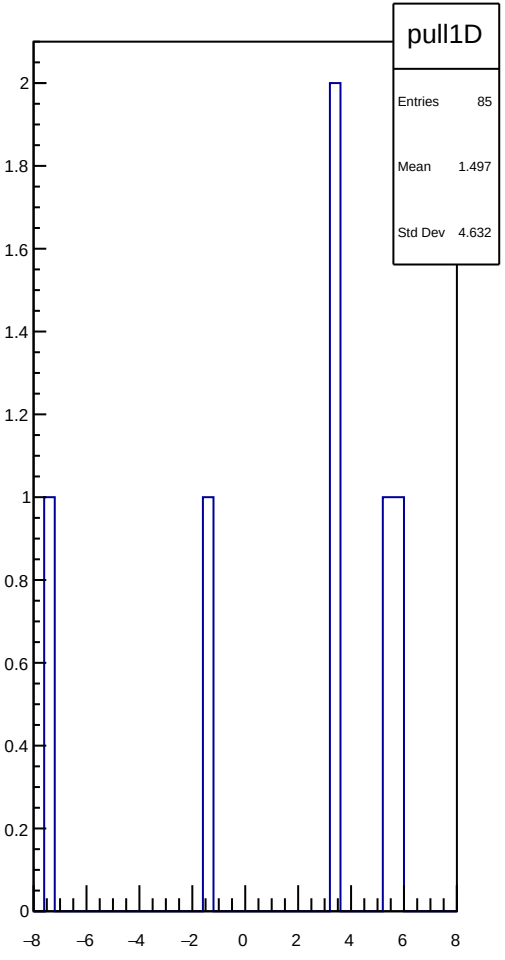

pull1D
Entries 85
Mean 1.804
Std Dev 4.824
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

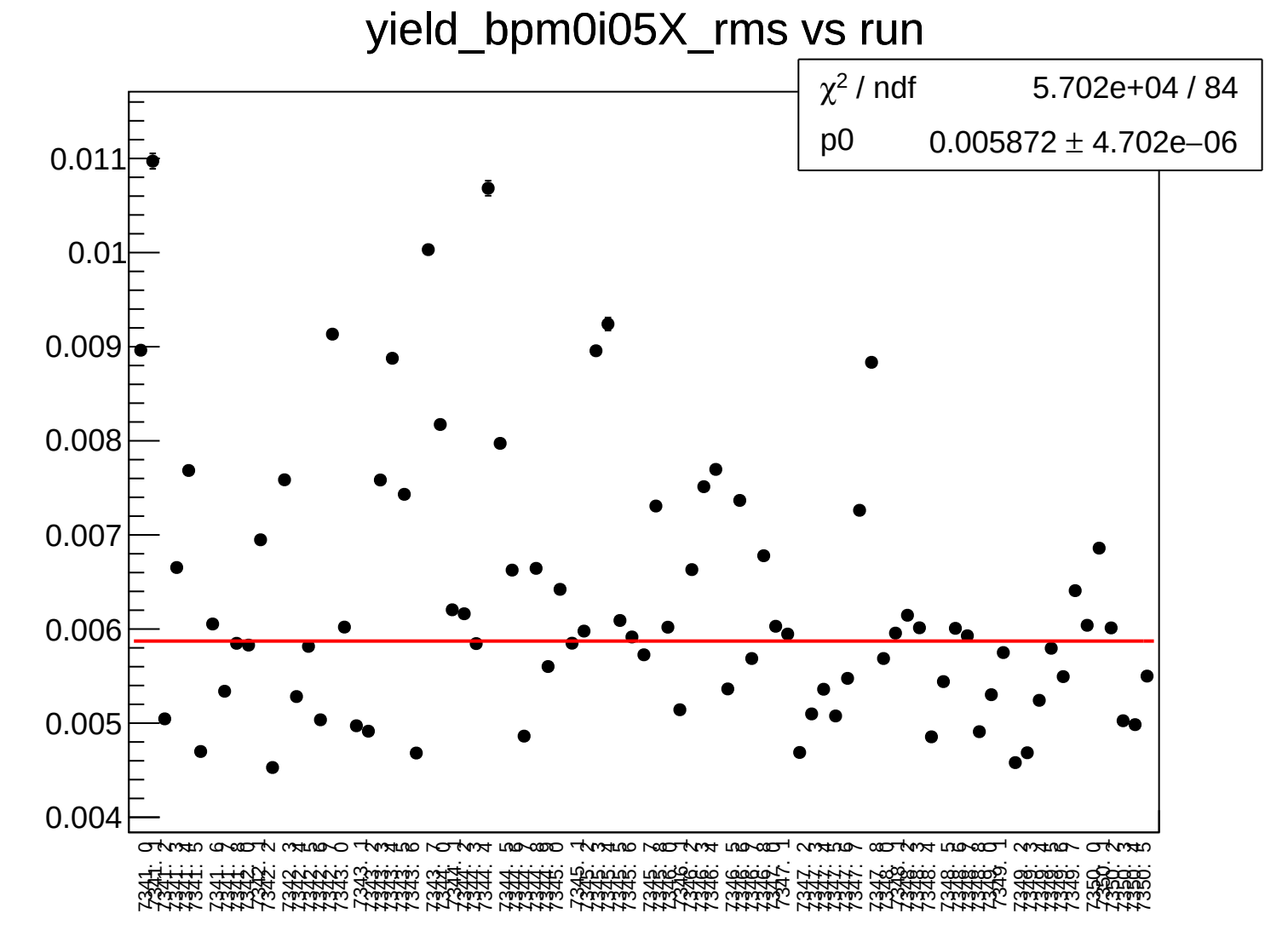

yield_bpm0i02aX_rms vs run
χ² / ndf 2.196e+04 / 84
p0 0.01193 ± 9.445e−06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

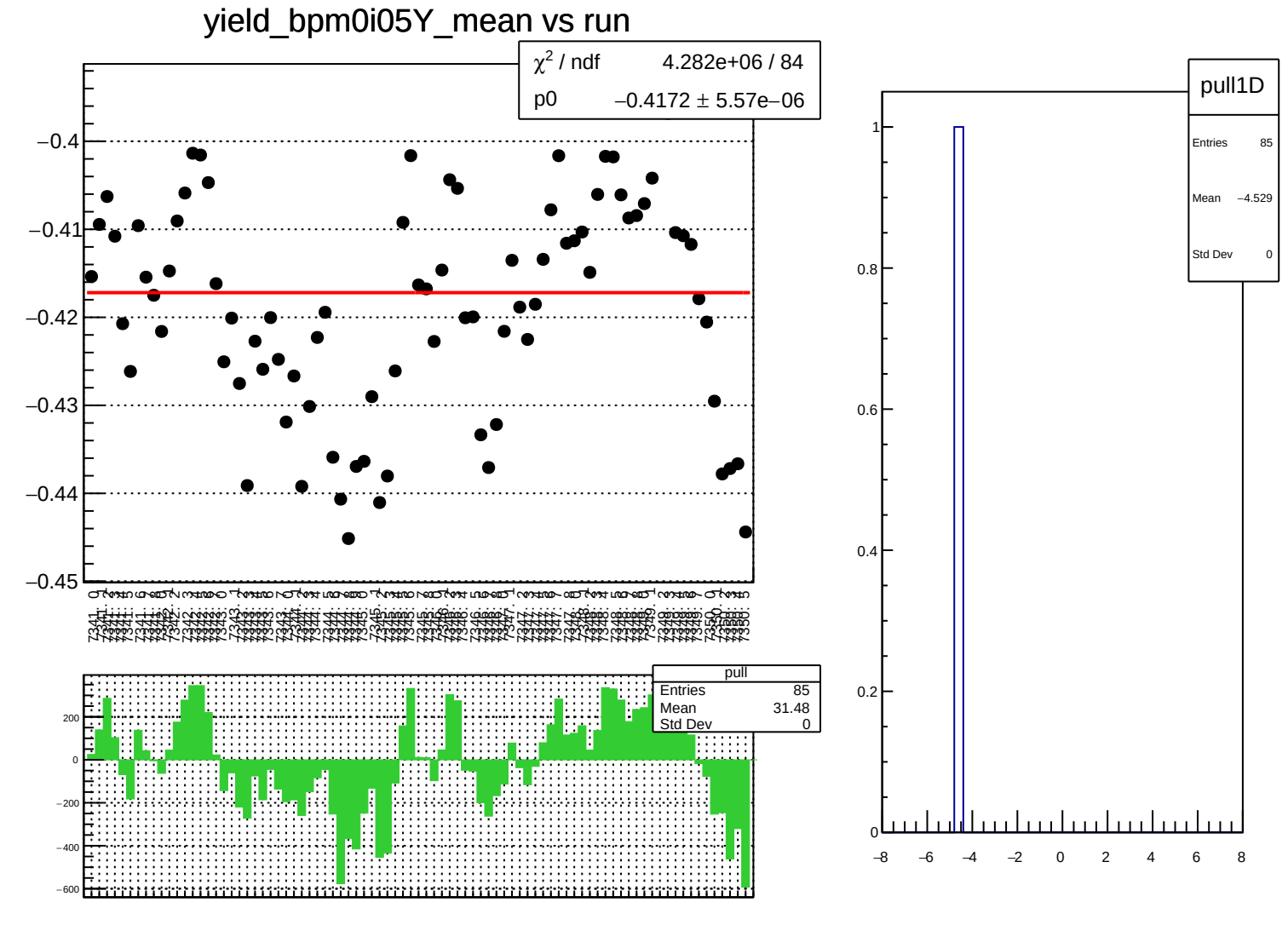

yield_bpm0i02aY_mean vs run
χ² / ndf 3.919e+06 / 84
p0 −1.132 ± 9.495e−06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
pull
Entries 85
Mean −223.1
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

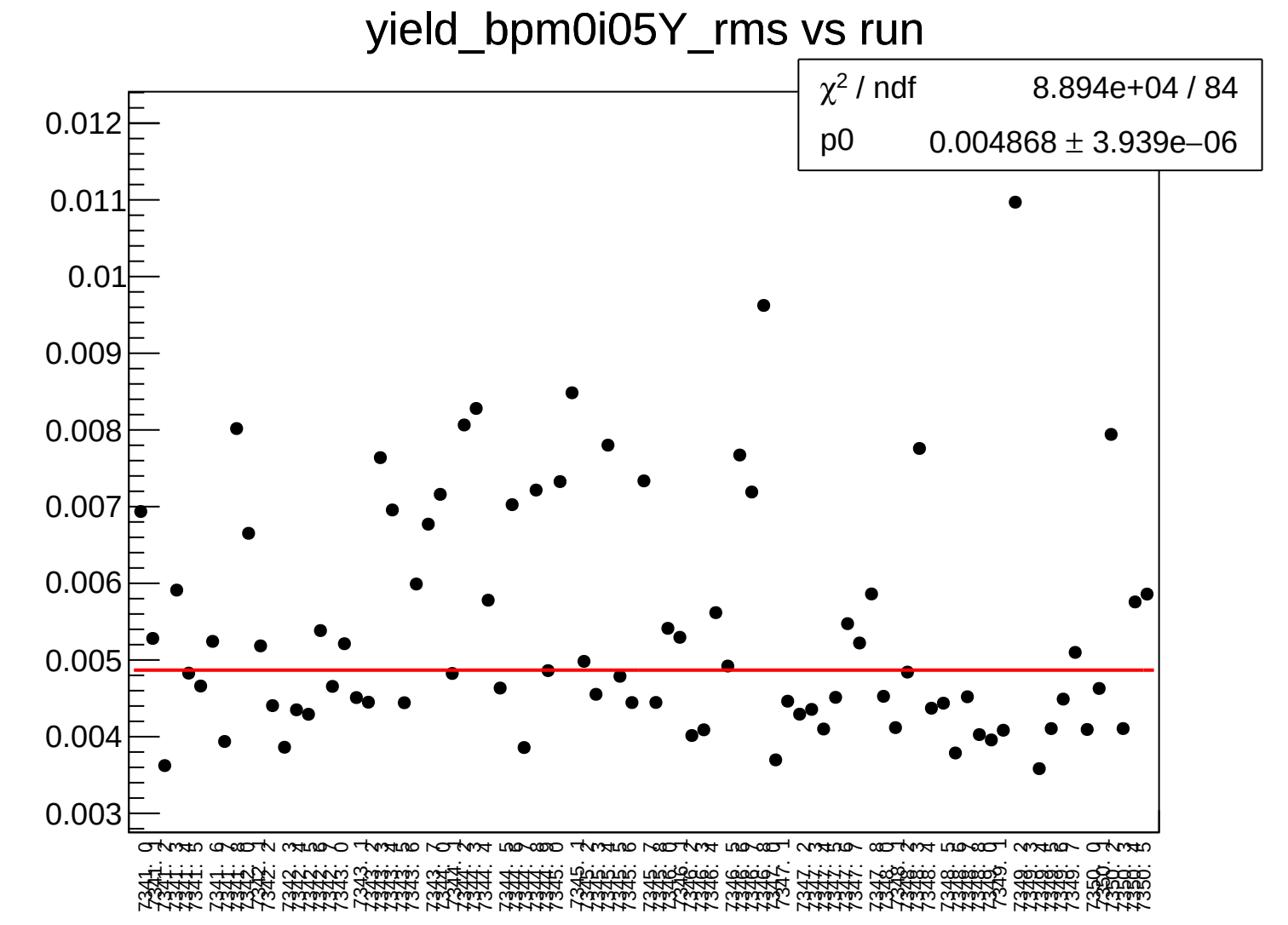

yield_bpm0i02aY_rms vs run
χ² / ndf 3.611e+04 / 84
p0 0.00844 ± 6.714e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

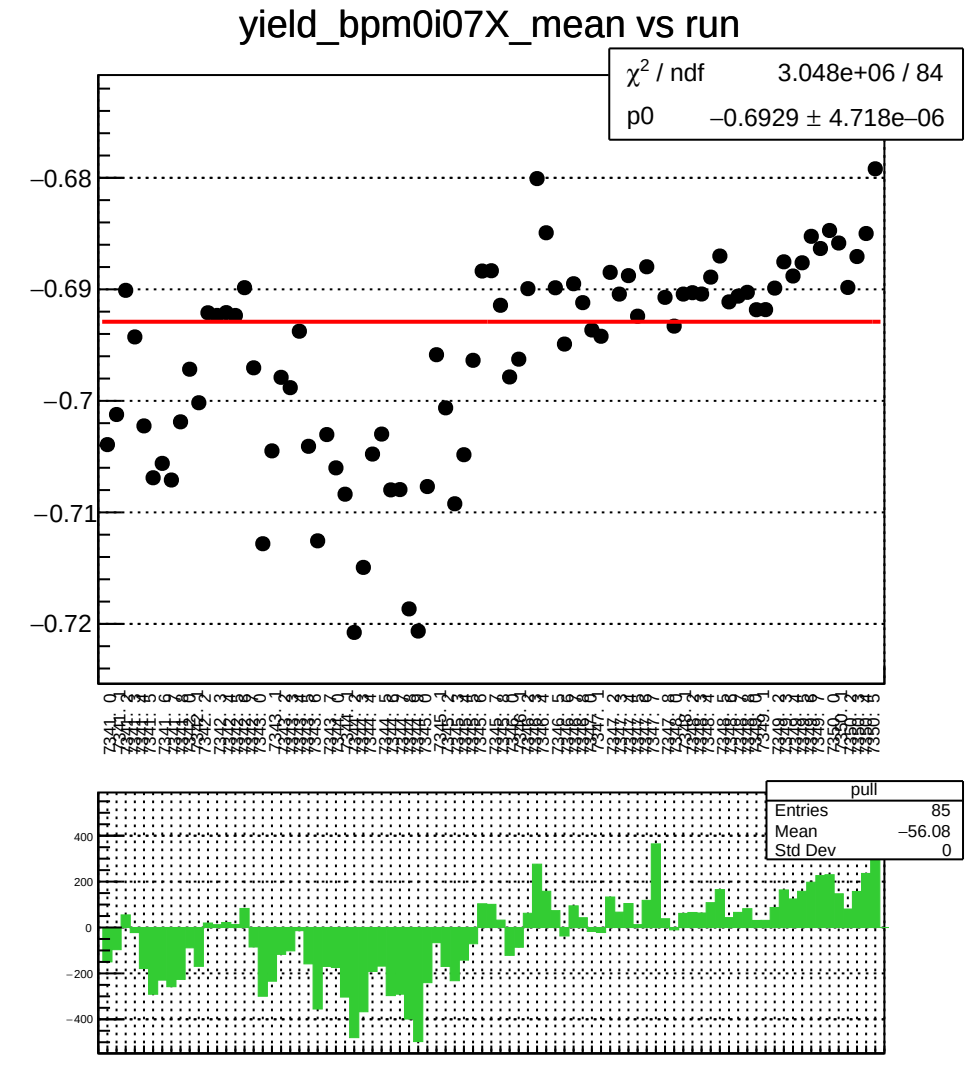

yield_bpm0i05X_mean vs run
χ² / ndf 2.217e+06 / 84
p0 0.004073 ± 6.65e−06
pull
Entries 85
Mean −428.8
Std Dev 0

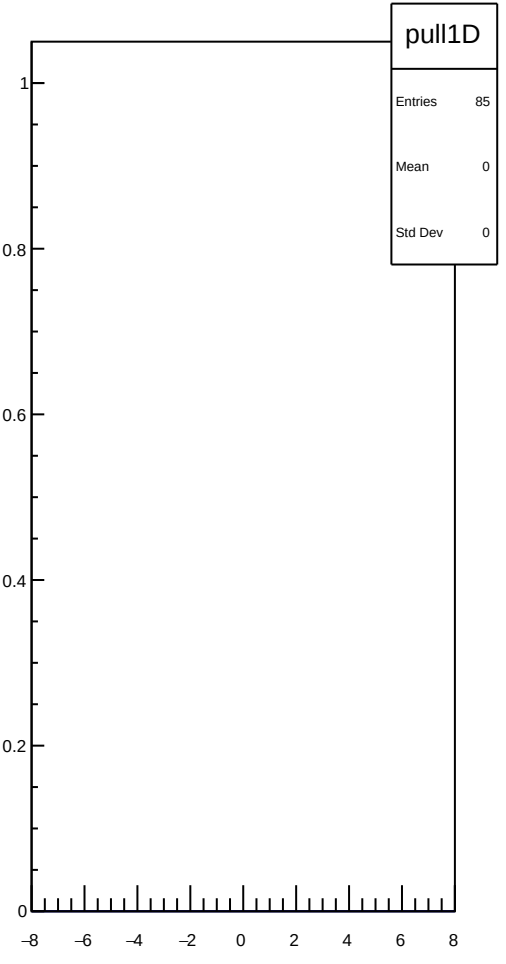

pull1D
Entries 85
Mean 1.497
Std Dev 4.632

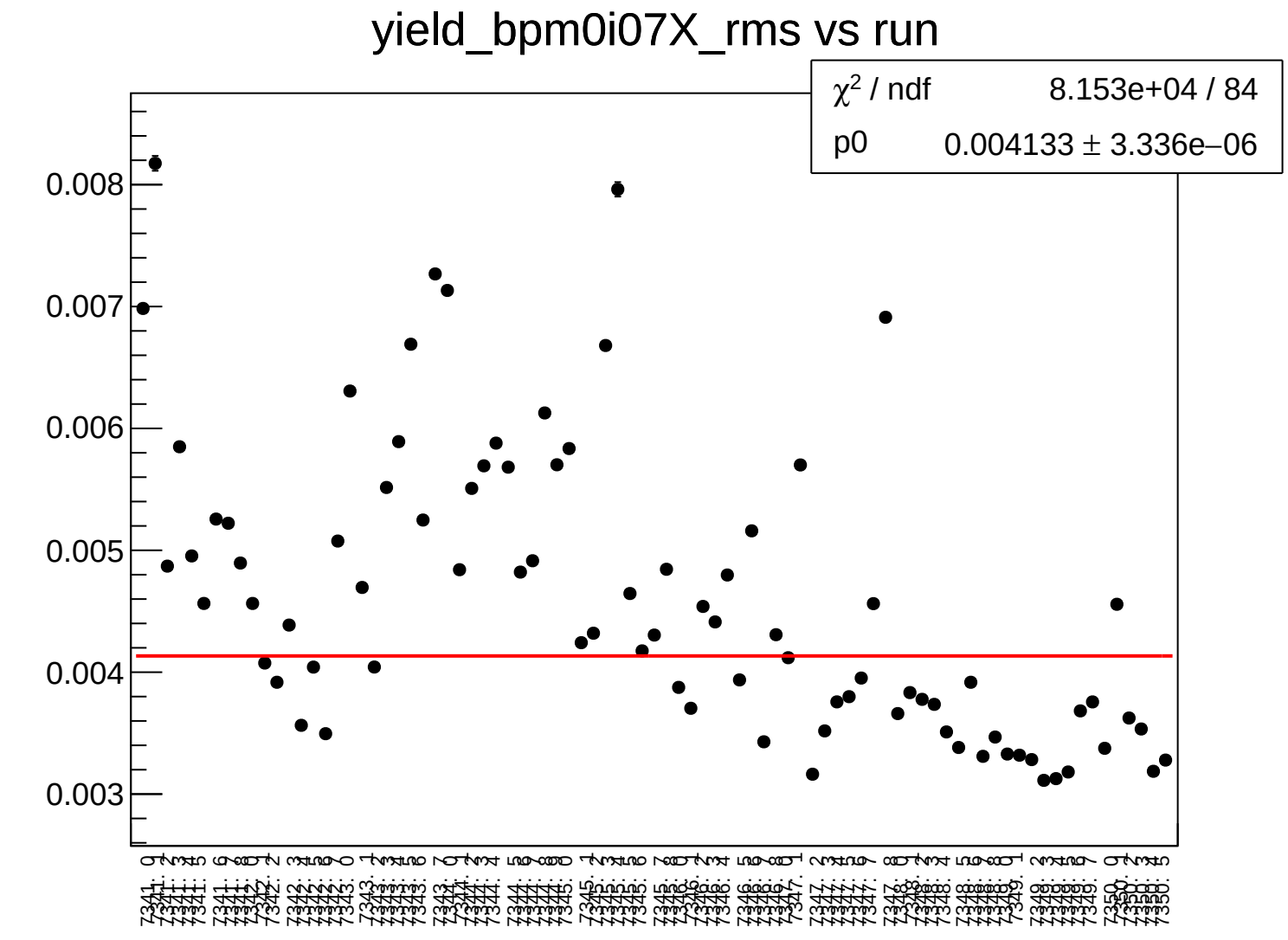

yield_bpm0i05X_rms vs run
χ^2 / ndf 5.702e+04 / 84
p0 0.005872 ± 4.702e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

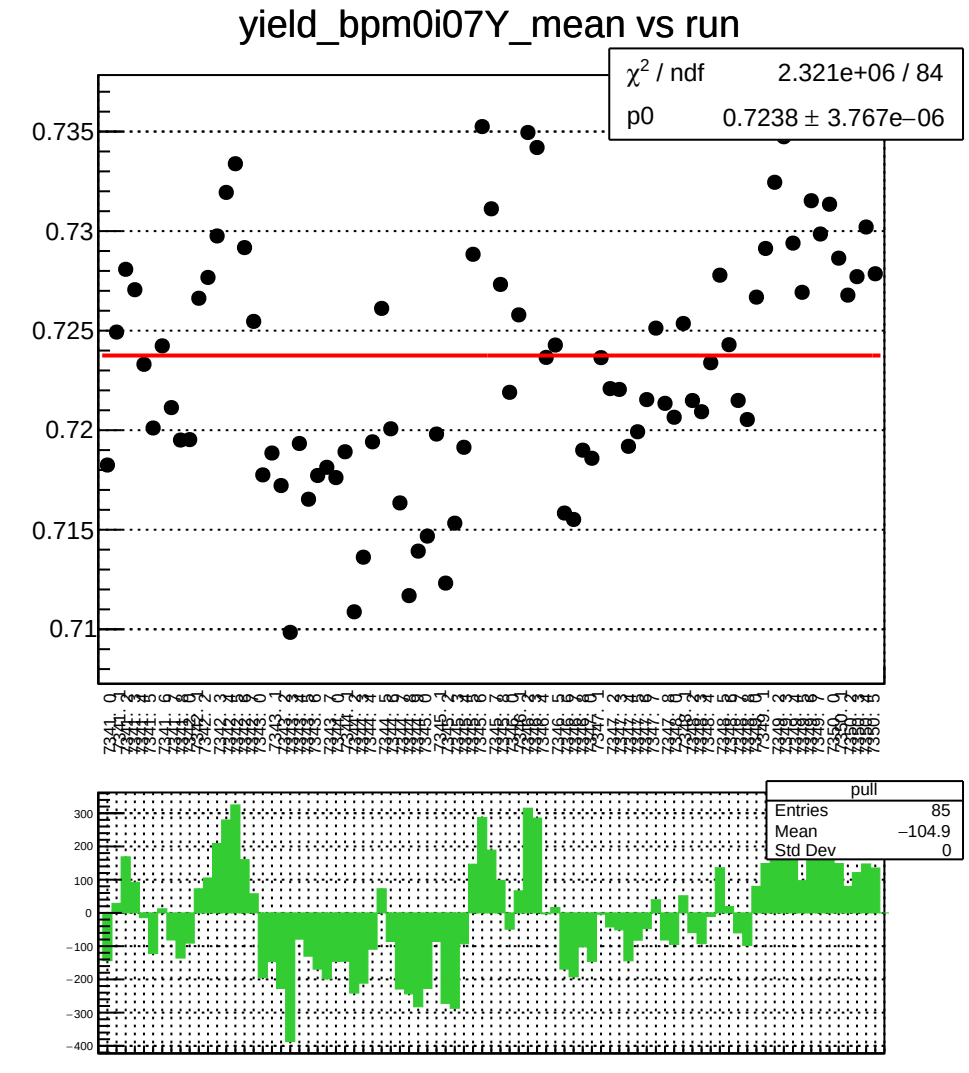

yield_bpm0i05Y_mean vs run
χ² / ndf 4.282e+06 / 84
p0 −0.4172 ± 5.57e−06
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
pull
Entries 85
Mean 31.48
Std Dev 0
200
0
−200
−400
−600
pull1D
Entries 85
Mean −4.529
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

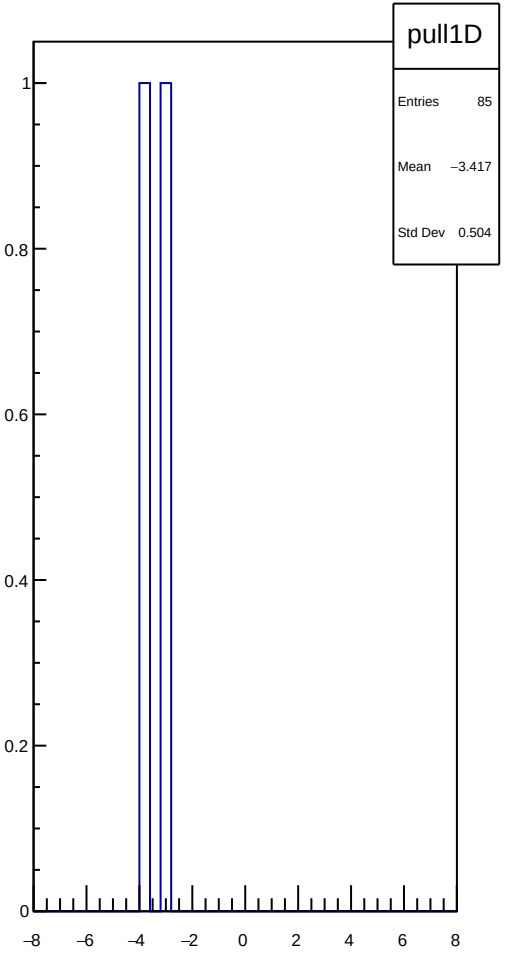

yield_bpm0i05Y_rms vs run
χ² / ndf 8.894e+04 / 84
p0 0.004868 ± 3.939e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

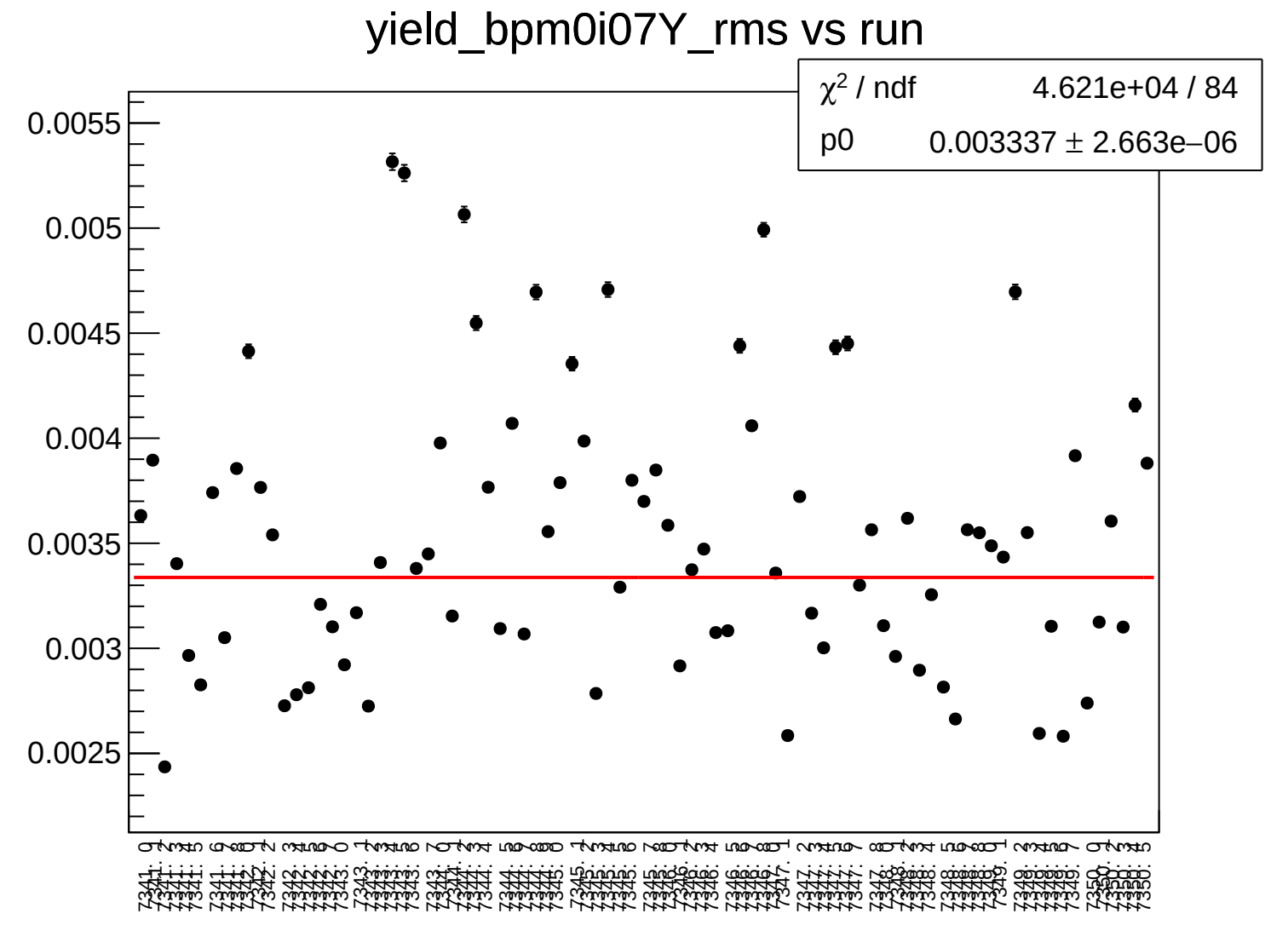

yield_bpm0i07X_mean vs run
χ² / ndf 3.048e+06 / 84
p0 −0.6929 ± 4.718e−06
−0.68
−0.69
−0.7
−0.71
−0.72
pull
Entries 85
Mean −56.08
Std Dev 0
400
200
0
−200
−400

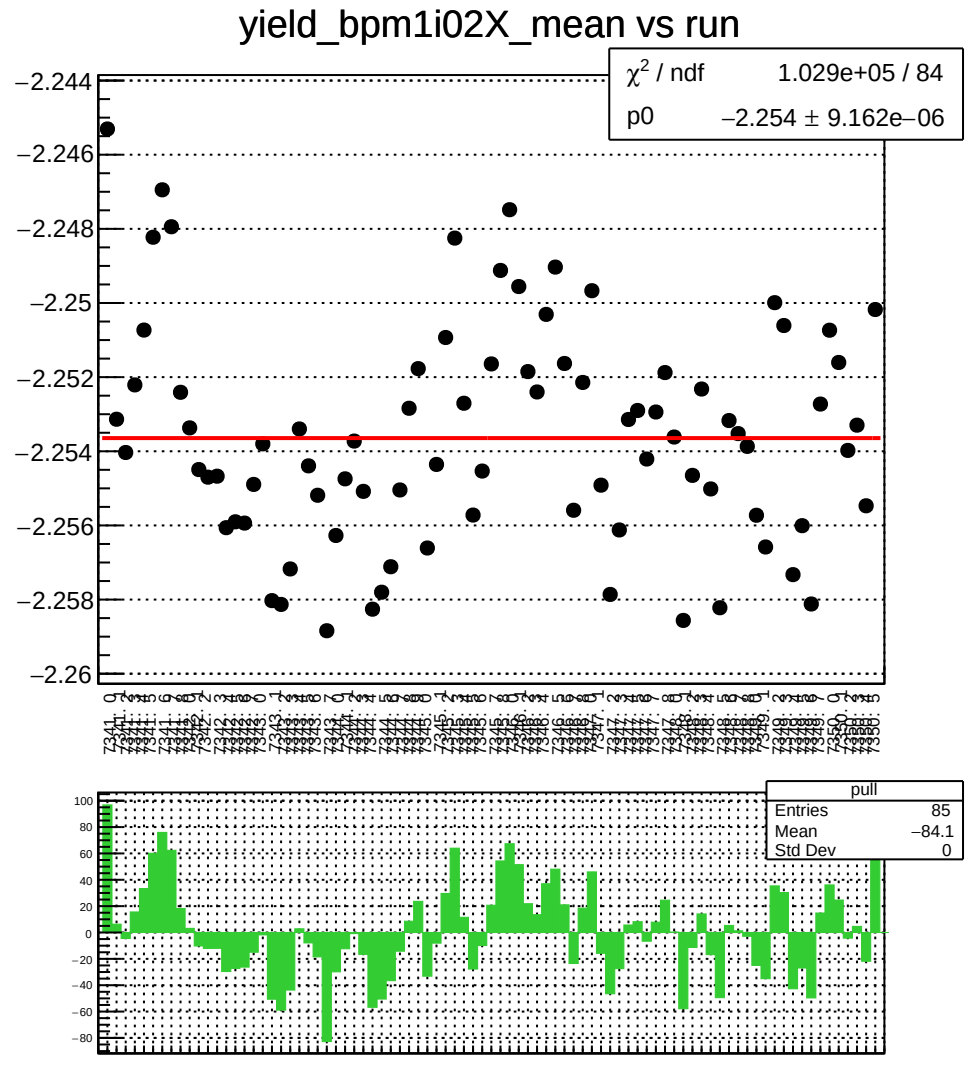

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

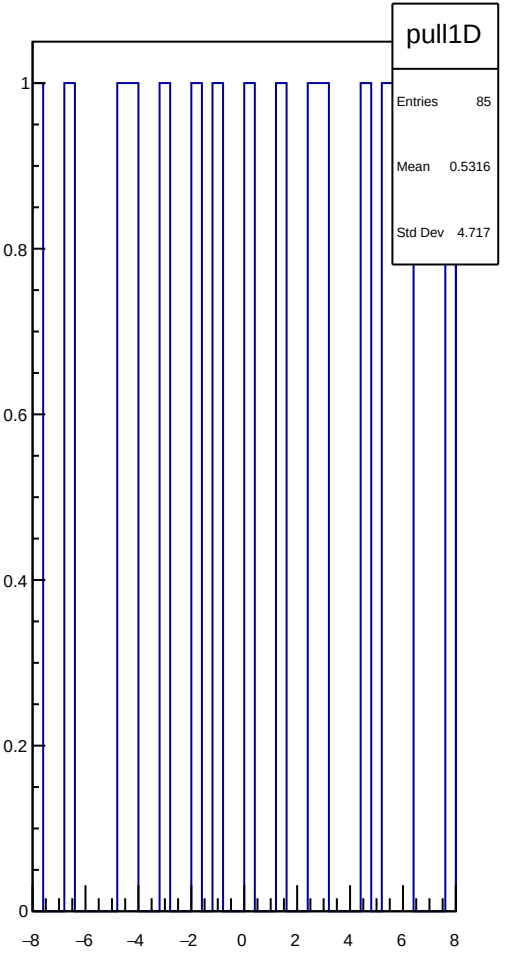

yield_bpm0i07X_rms vs run
χ² / ndf 8.153e+04 / 84
p0 0.004133 ± 3.336e−06
0.008
0.007
0.006
0.005
0.004
0.003

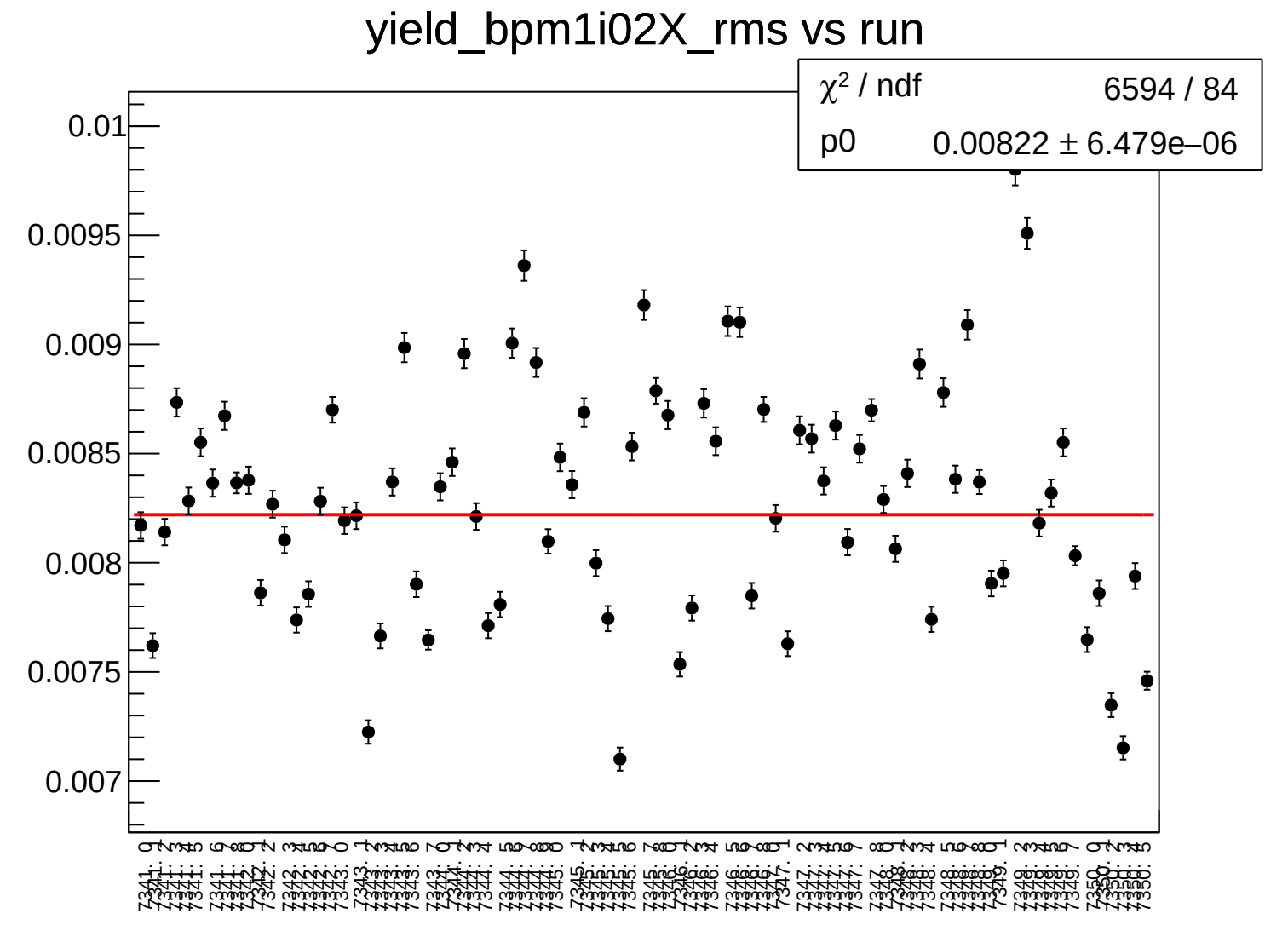

yield_bpm0i07Y_mean vs run
χ² / ndf 2.321e+06 / 84
p0 0.7238 ± 3.767e−06
0.735
0.73
0.725
0.72
0.715
0.71
pull
Entries 85
Mean −104.9
Std Dev 0
300
200
100
0
−100
−200
−300
−400

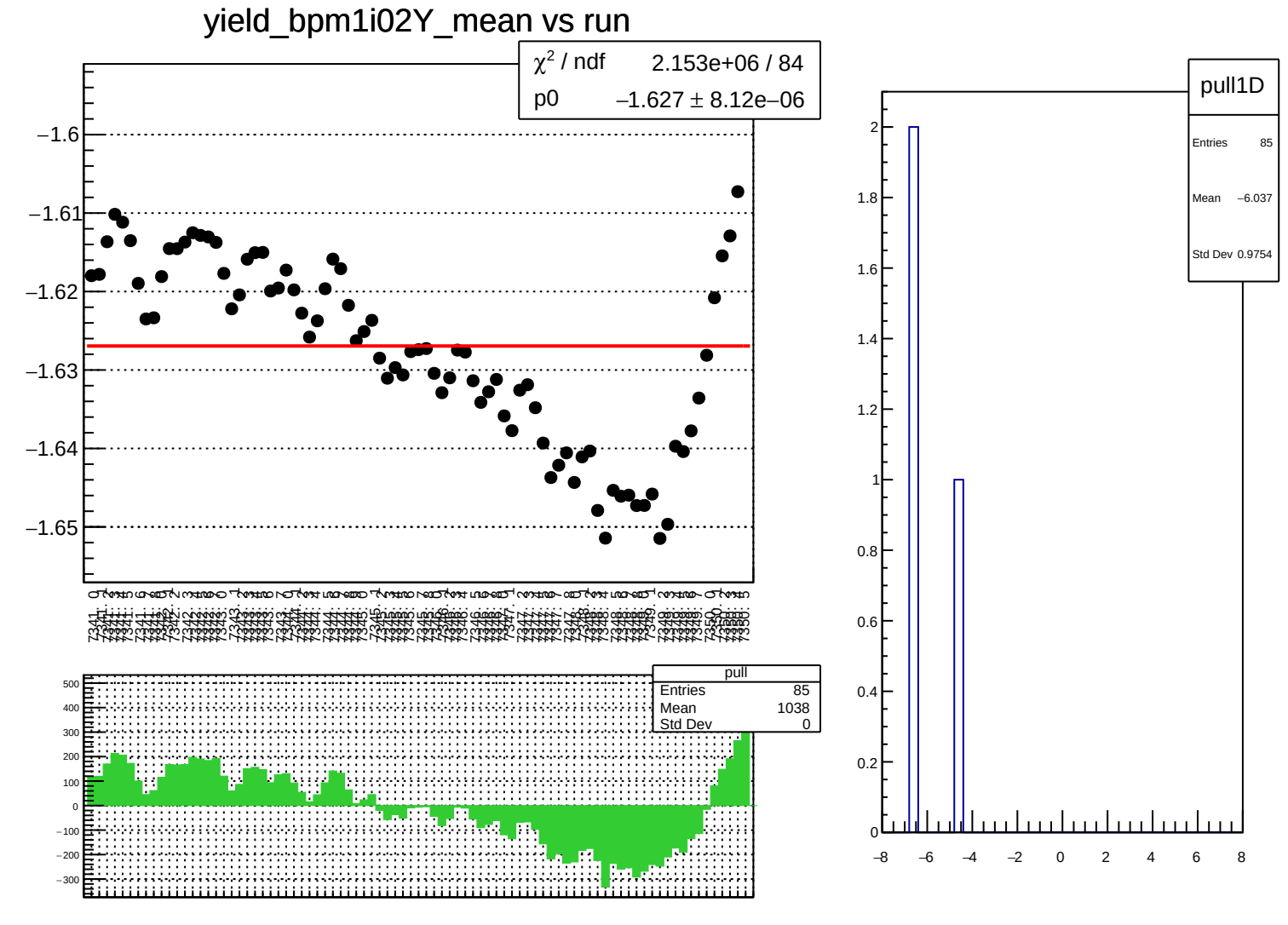

pull1D
Entries 85
Mean −3.417
Std Dev 0.504
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

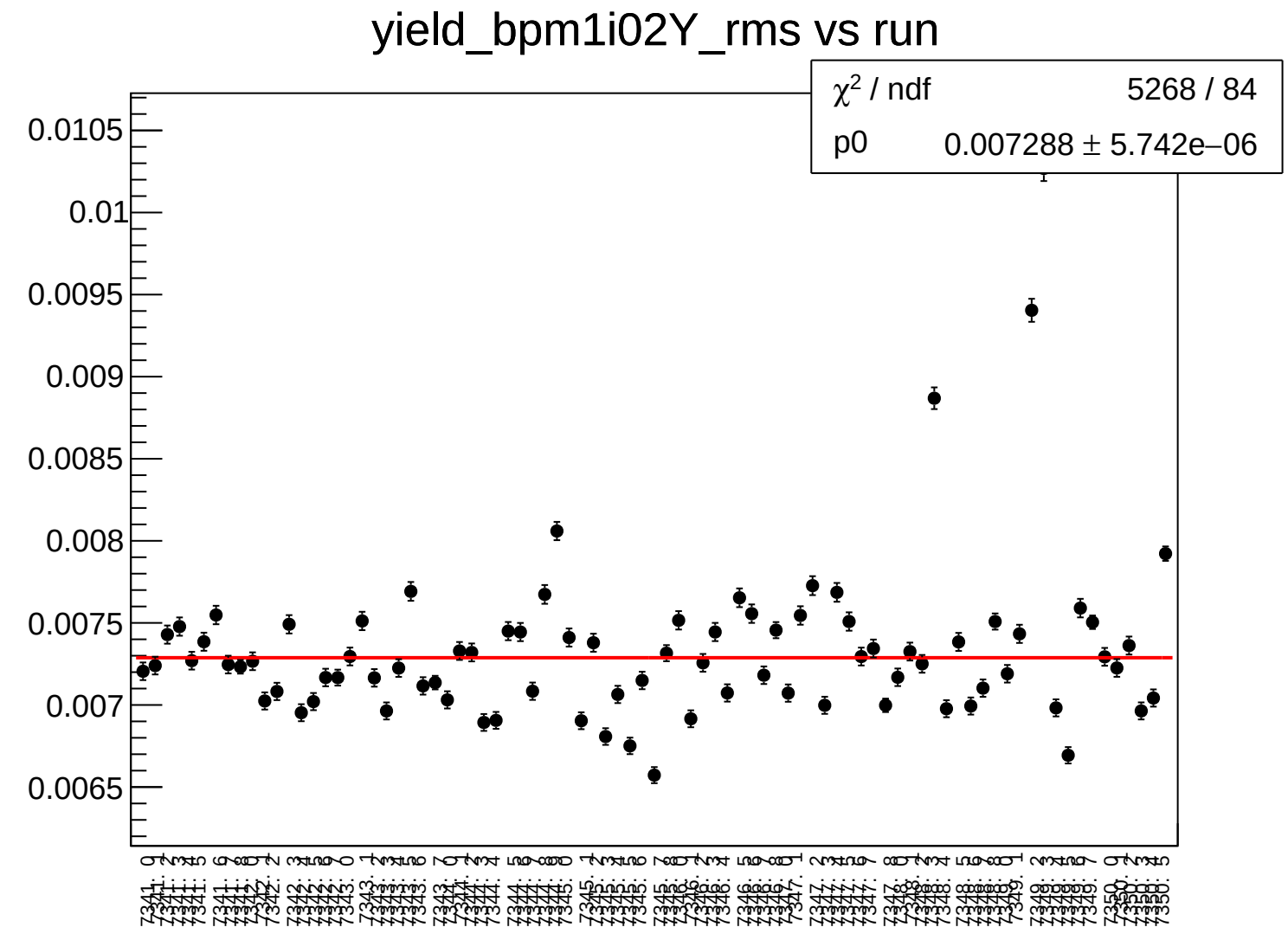

yield_bpm0i07Y_rms vs run
χ^2 / ndf 4.621e+04 / 84
p0 0.003337 ± 2.663e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

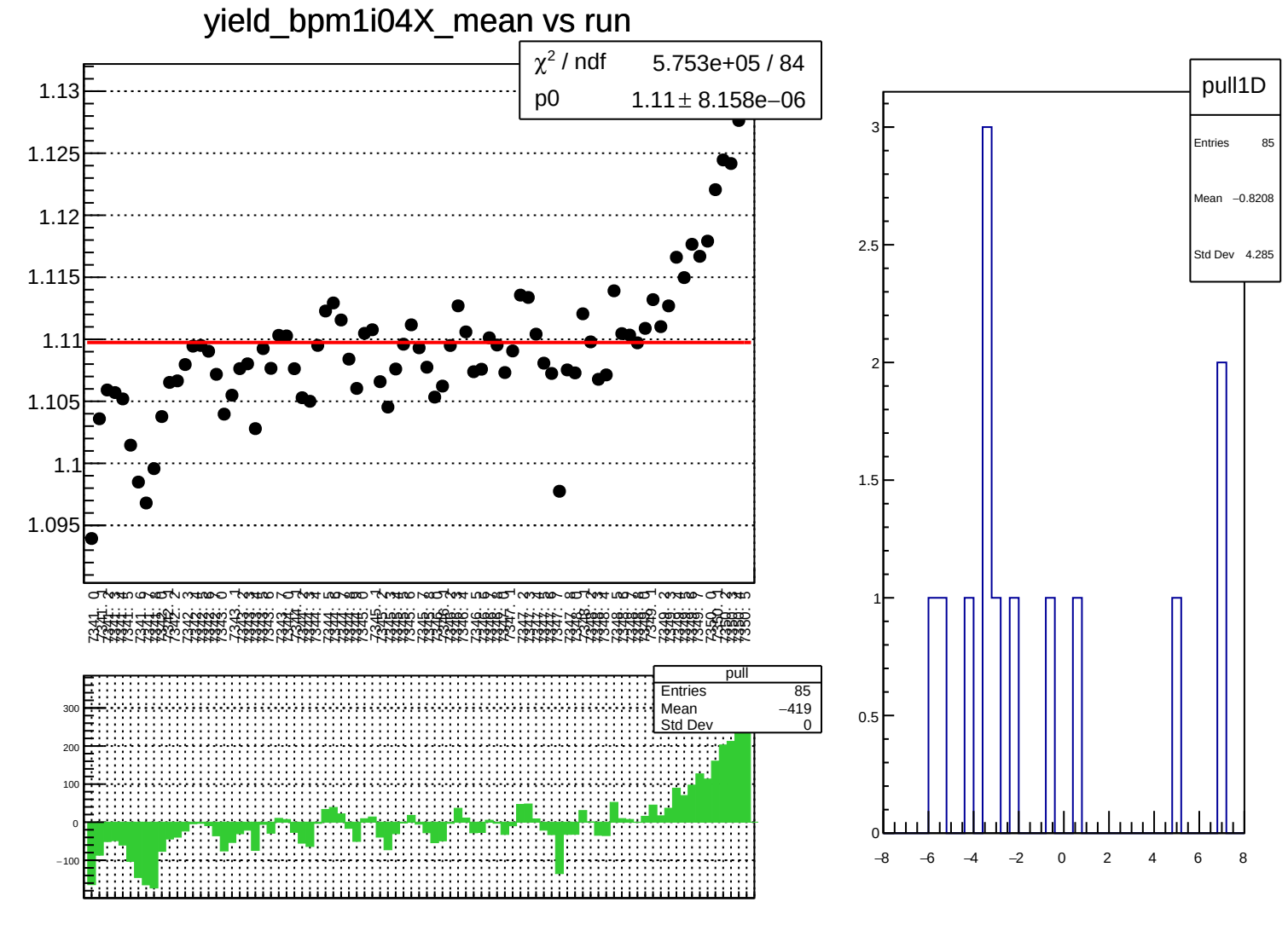

yield_bpm1i02X_mean vs run
χ² / ndf 1.029e+05 / 84
p0 −2.254 ± 9.162e−06
−2.244
−2.246
−2.248
−2.25
−2.252
−2.254
−2.256
−2.258
−2.26
pull
Entries 85
Mean −84.1
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

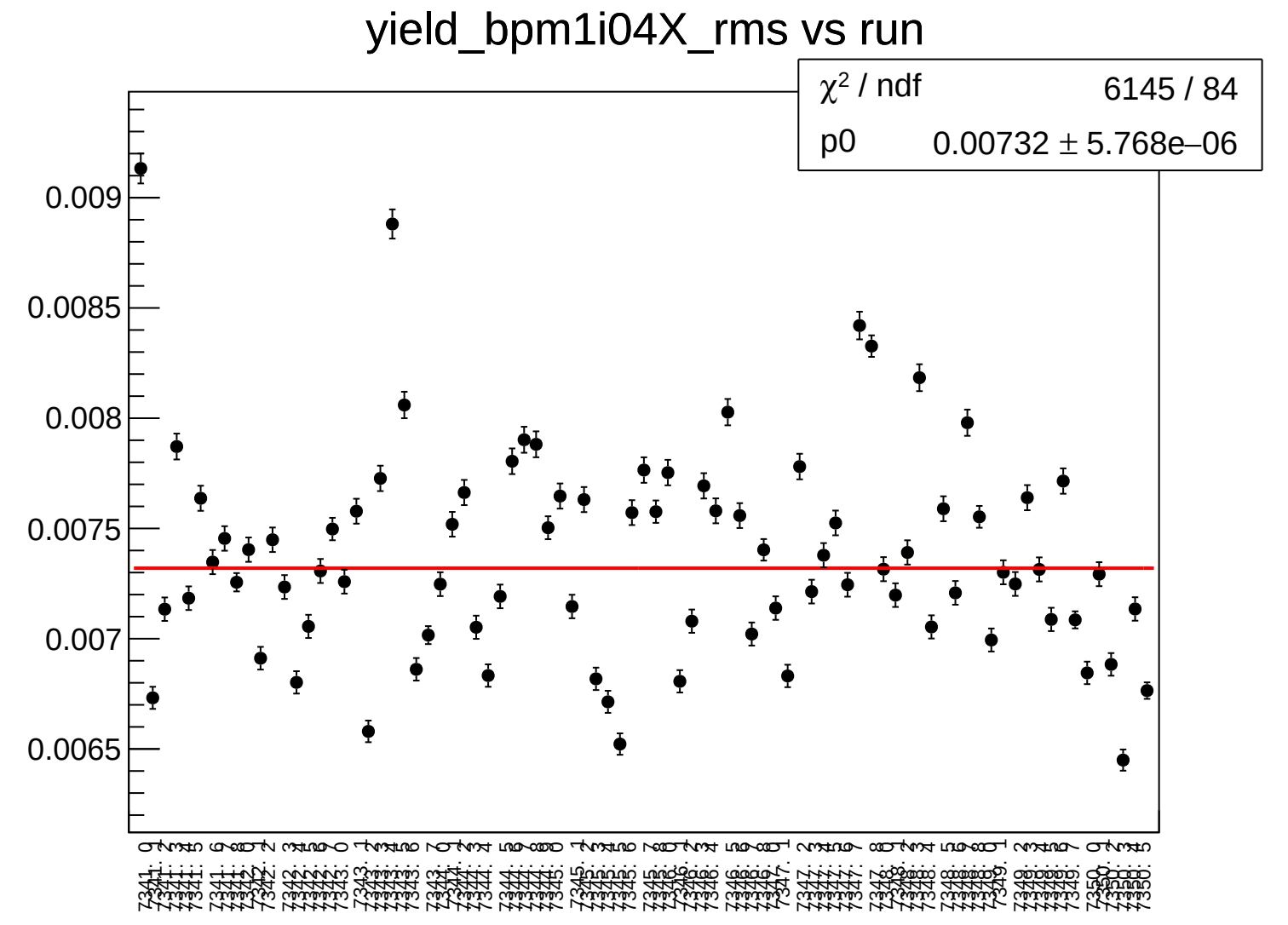

pull1D
Entries 85
Mean 0.5316
Std Dev 4.717
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

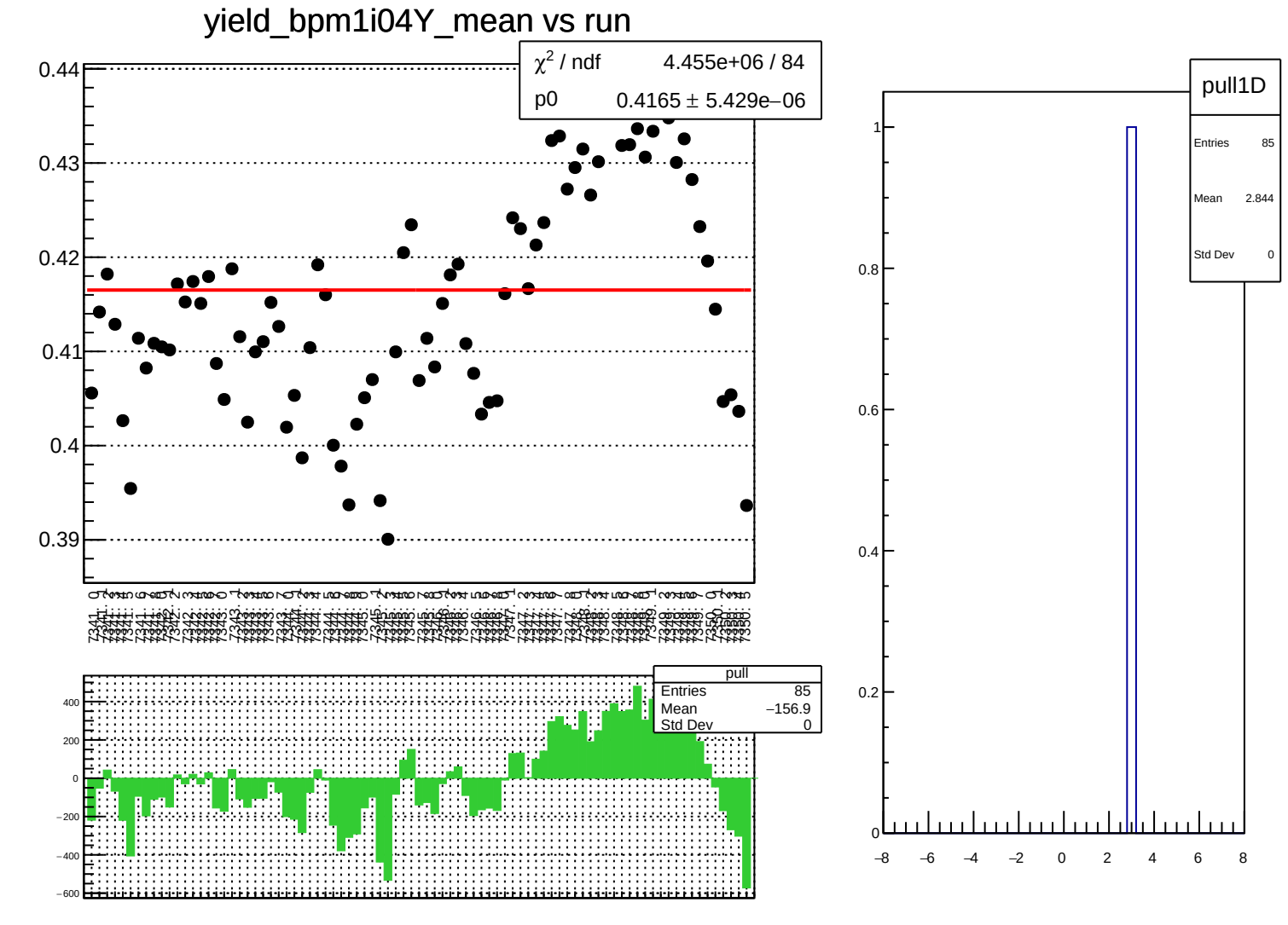

yield_bpm1i02X_rms vs run
χ² / ndf 6594 / 84
p0 0.00822 ± 6.479e–06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

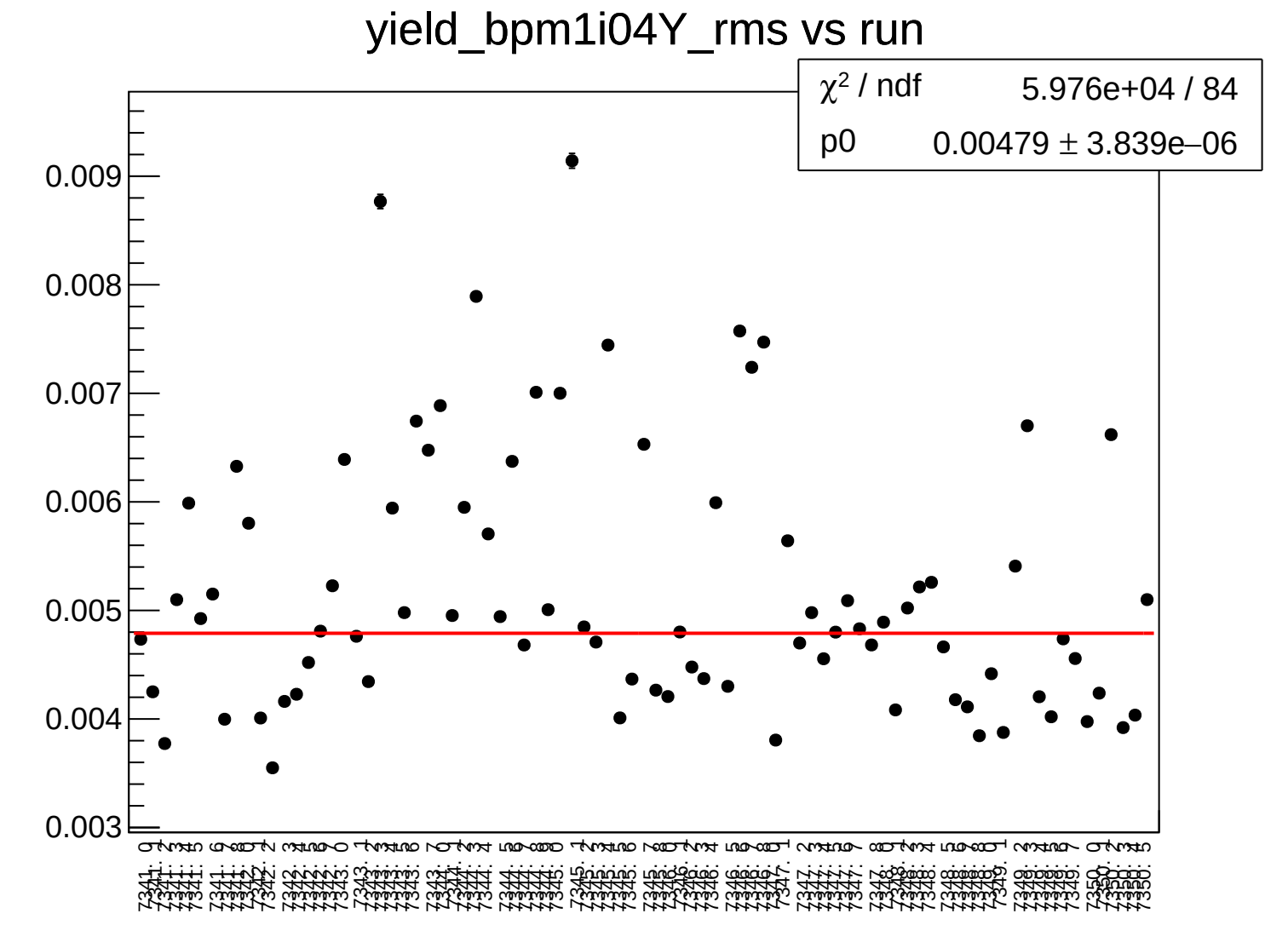

yield_bpm1i02Y_mean vs run
χ² / ndf 2.153e+06 / 84
p0 −1.627 ± 8.12e−06
−1.6
−1.61
−1.62
−1.63
−1.64
−1.65
pull
Entries 85
Mean 1038
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 85
Mean −6.037
Std Dev 0.9754
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

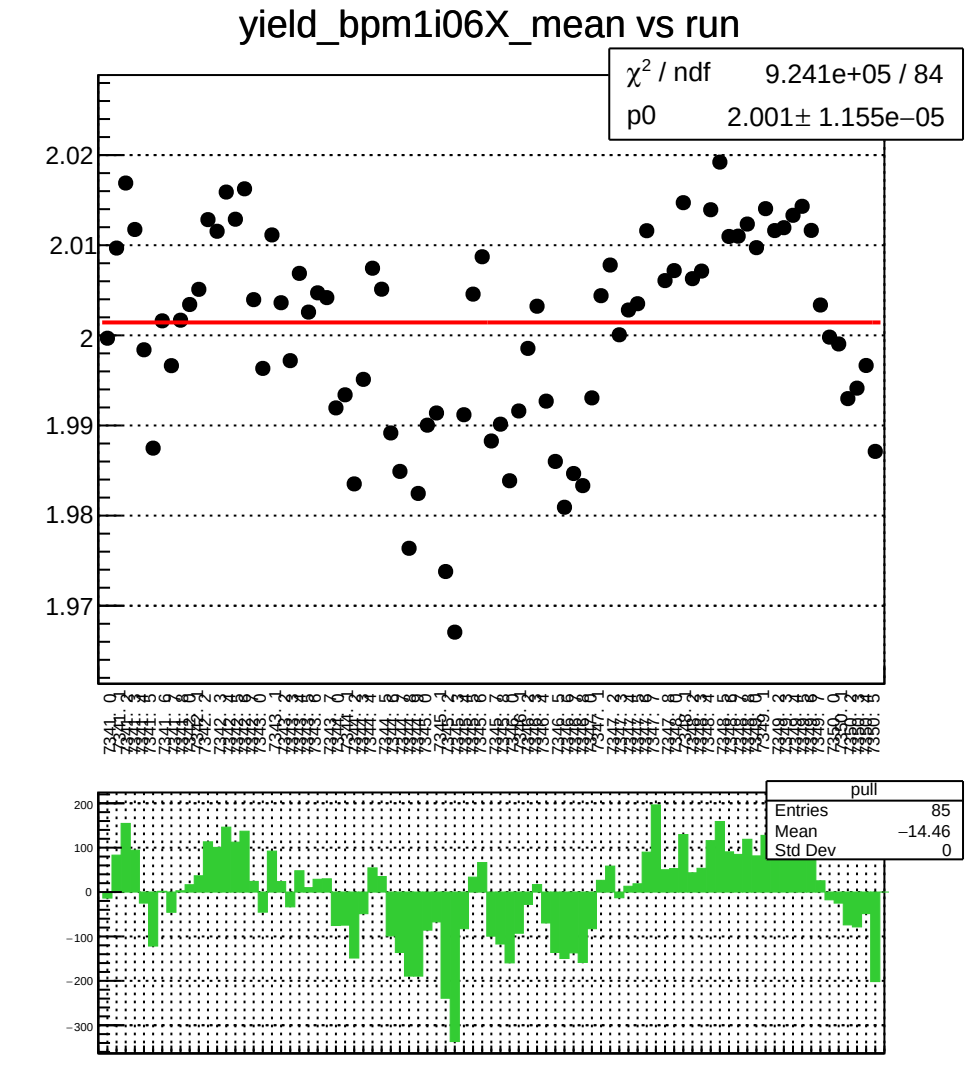

yield_bpm1i02Y_rms vs run
χ² / ndf 5268 / 84
p0 0.007288 ± 5.742e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

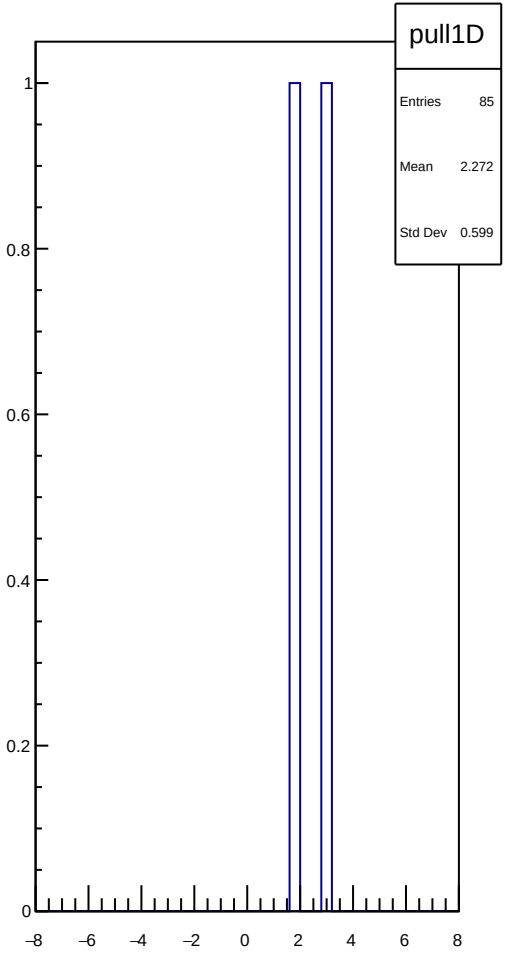

yield_bpm1i04X_mean vs run
χ² / ndf 5.753e+05 / 84
p0 1.11 ± 8.158e−06
1.13
1.125
1.12
1.115
1.11
1.105
1.1
1.095
pull
Entries 85
Mean −419
Std Dev 0
300
200
100
0
−100
pull1D
Entries 85
Mean −0.8208
Std Dev 4.285
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

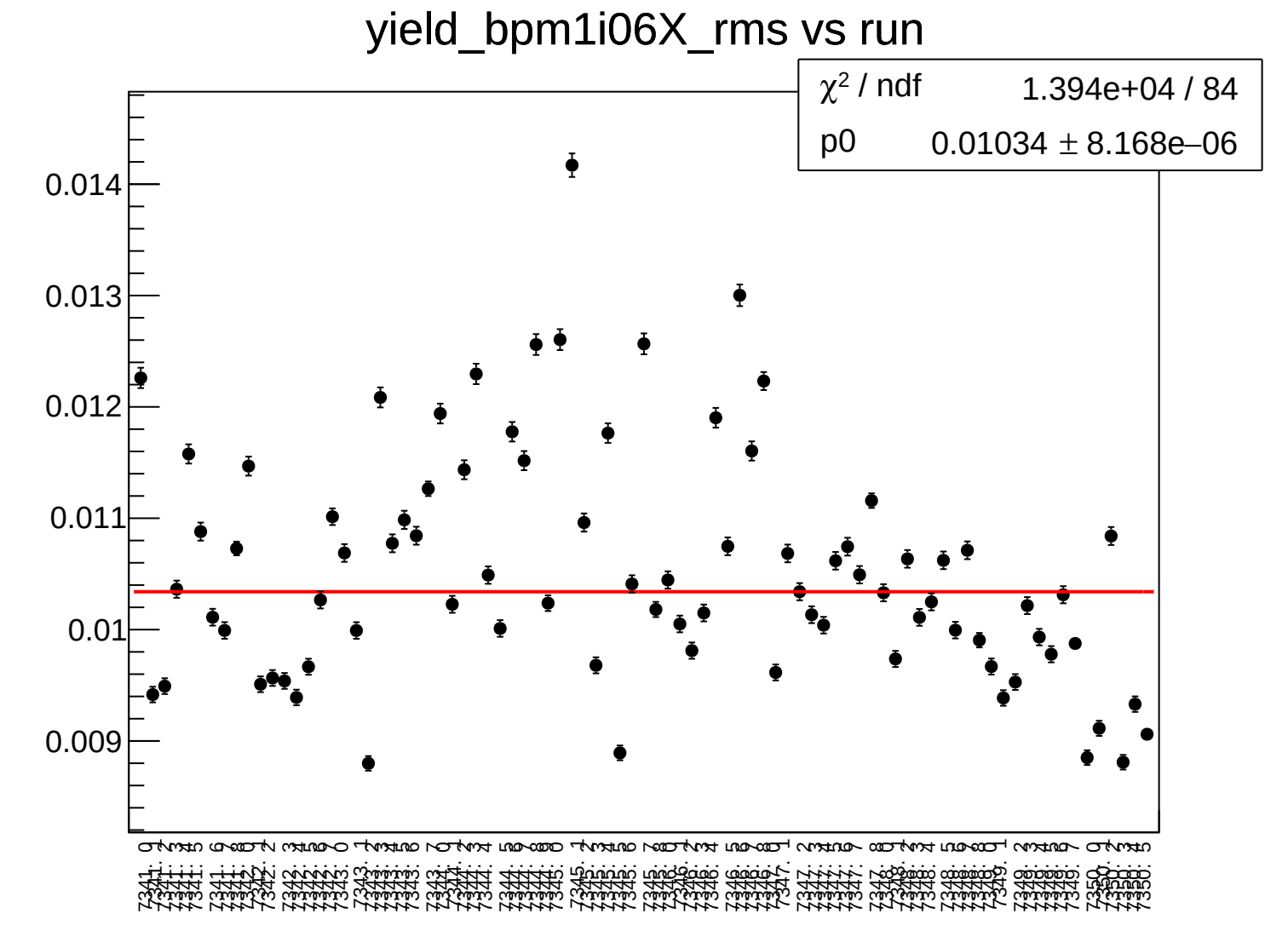

yield_bpm1i04X_rms vs run
χ² / ndf 6145 / 84
p0 0.00732 ± 5.768e–06
0.009
0.0085
0.008
0.0075
0.007
0.0065

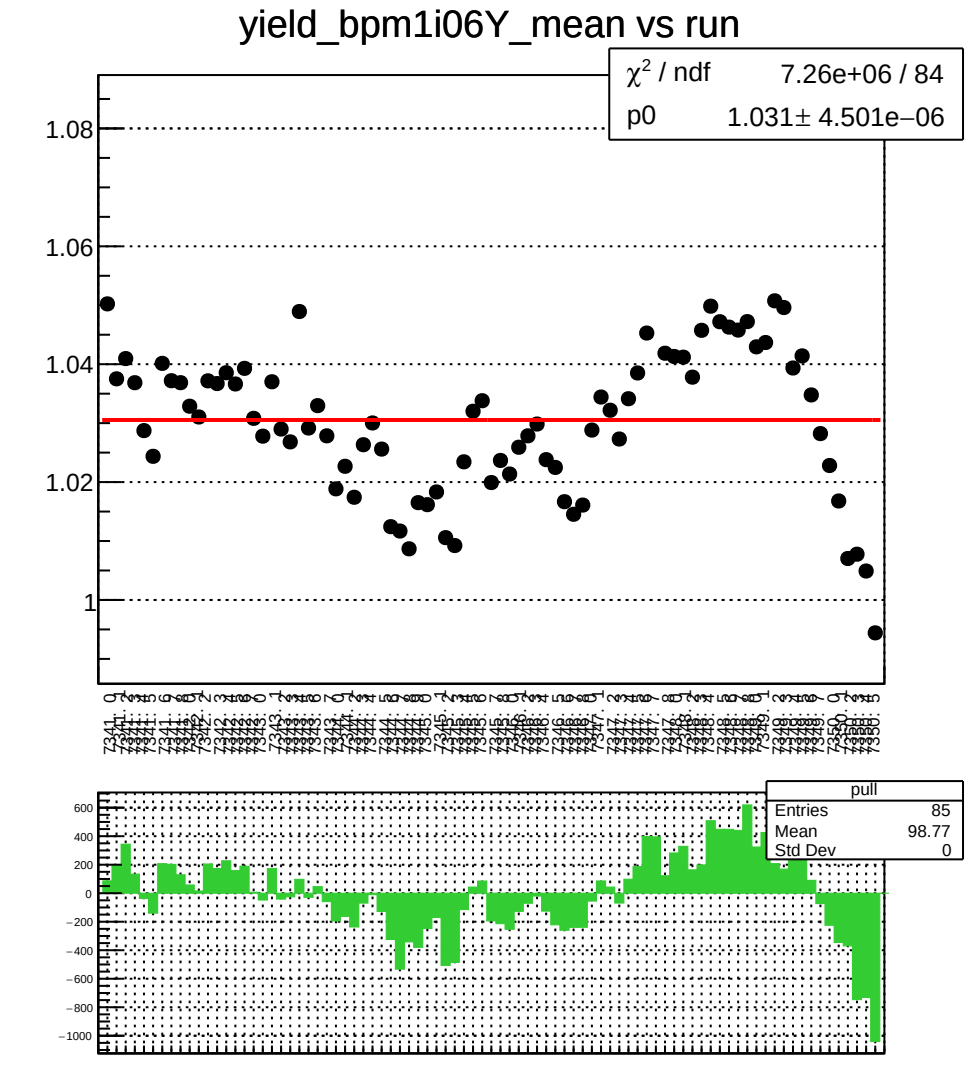

yield_bpm1i04Y_mean vs run
χ² / ndf 4.455e+06 / 84
p0 0.4165 ± 5.429e−06
0.44
0.43
0.42
0.41
0.4
0.39
pull
Entries 85
Mean −156.9
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 85
Mean 2.844
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

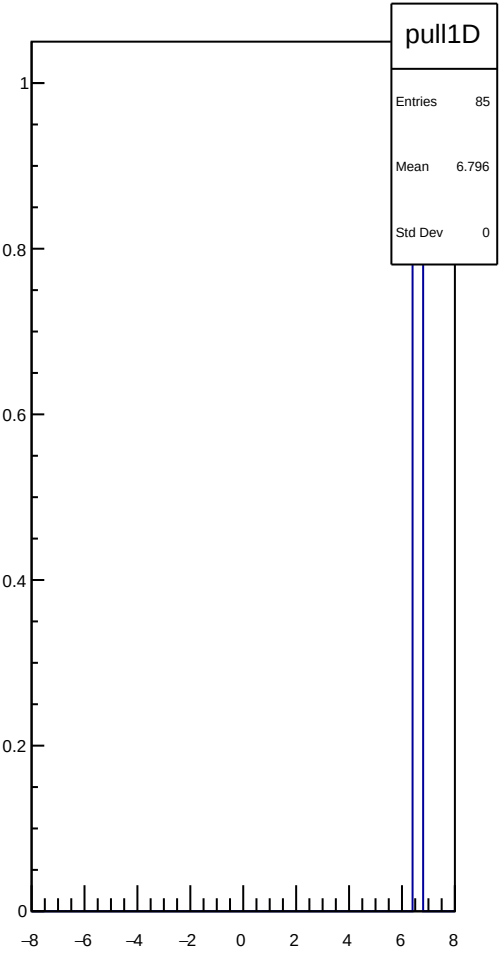

yield_bpm1i04Y_rms vs run
χ² / ndf 5.976e+04 / 84
p0 0.00479 ± 3.839e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

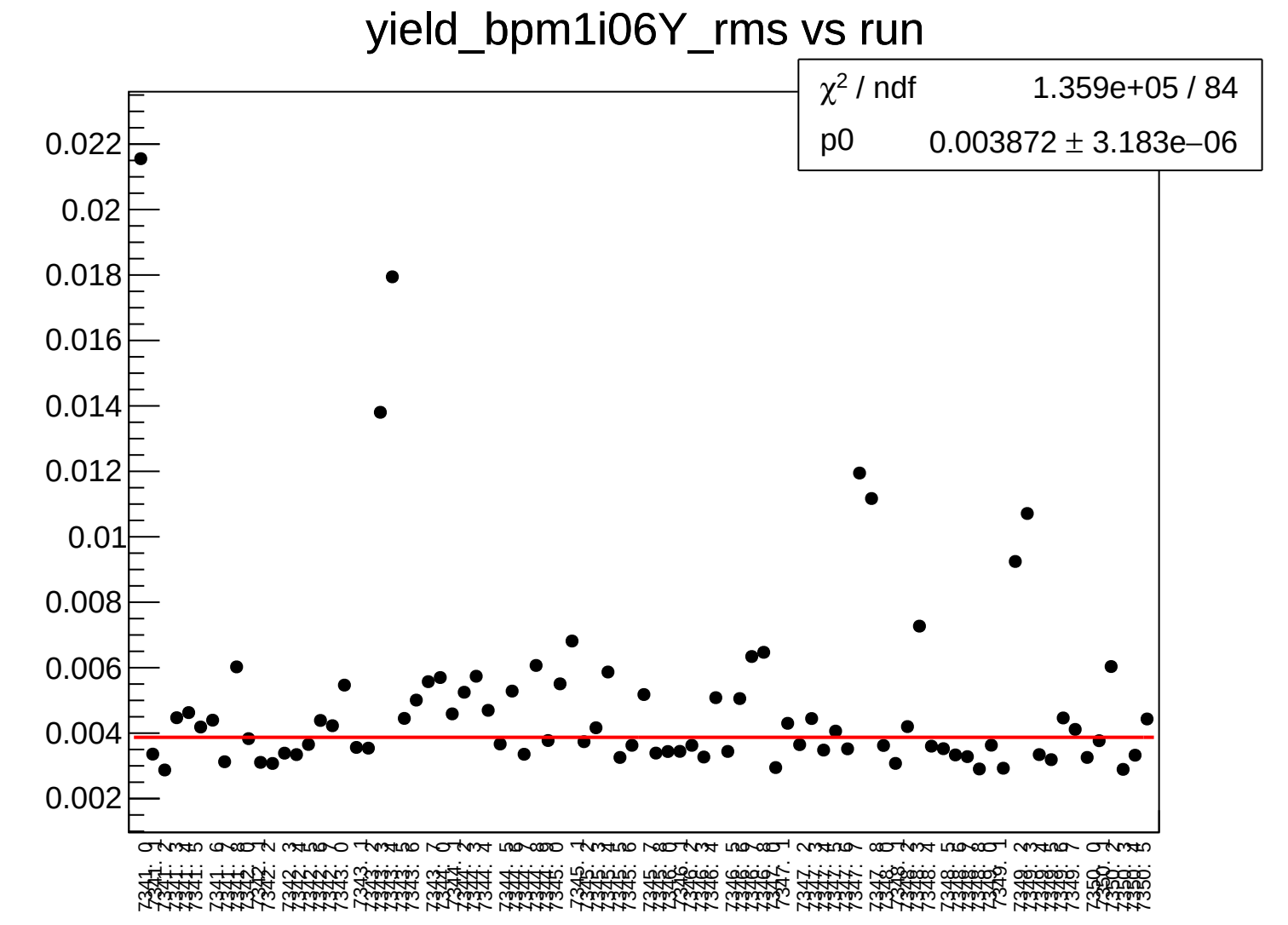

yield_bpm1i06X_mean vs run
χ² / ndf 9.241e+05 / 84
p0 2.001± 1.155e−05
2.02
2.01
2
1.99
1.98
1.97
pull
Entries 85
Mean −14.46
Std Dev 0
200
100
0
−100
−200
−300

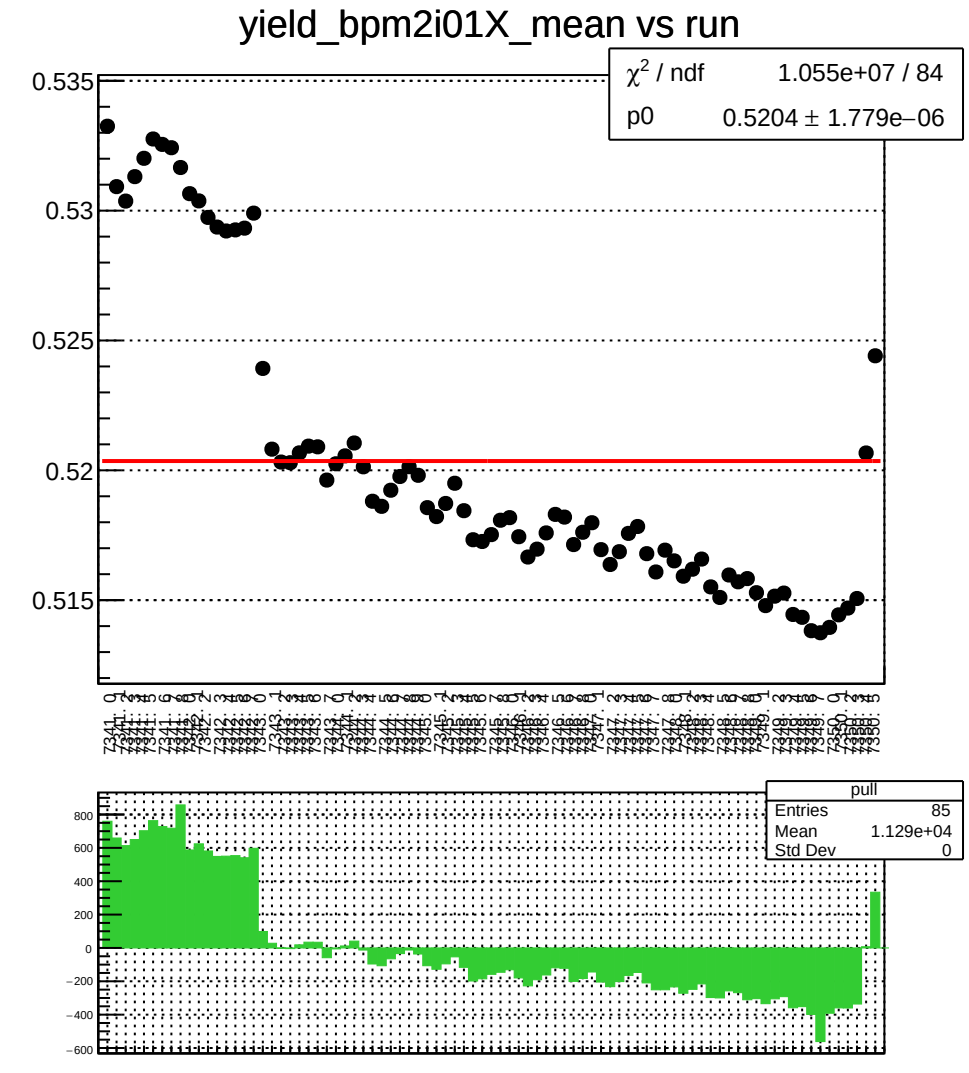

pull1D
Entries 85
Mean 2.272
Std Dev 0.599
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

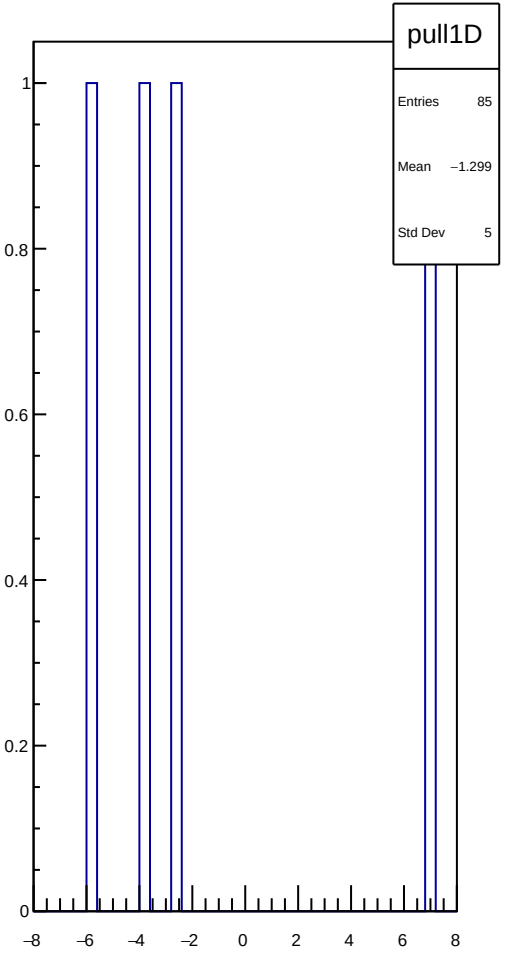

yield_bpm1i06X_rms vs run
χ² / ndf 1.394e+04 / 84
p0 0.01034 ± 8.168e–06
0.014
0.013
0.012
0.011
0.01
0.009

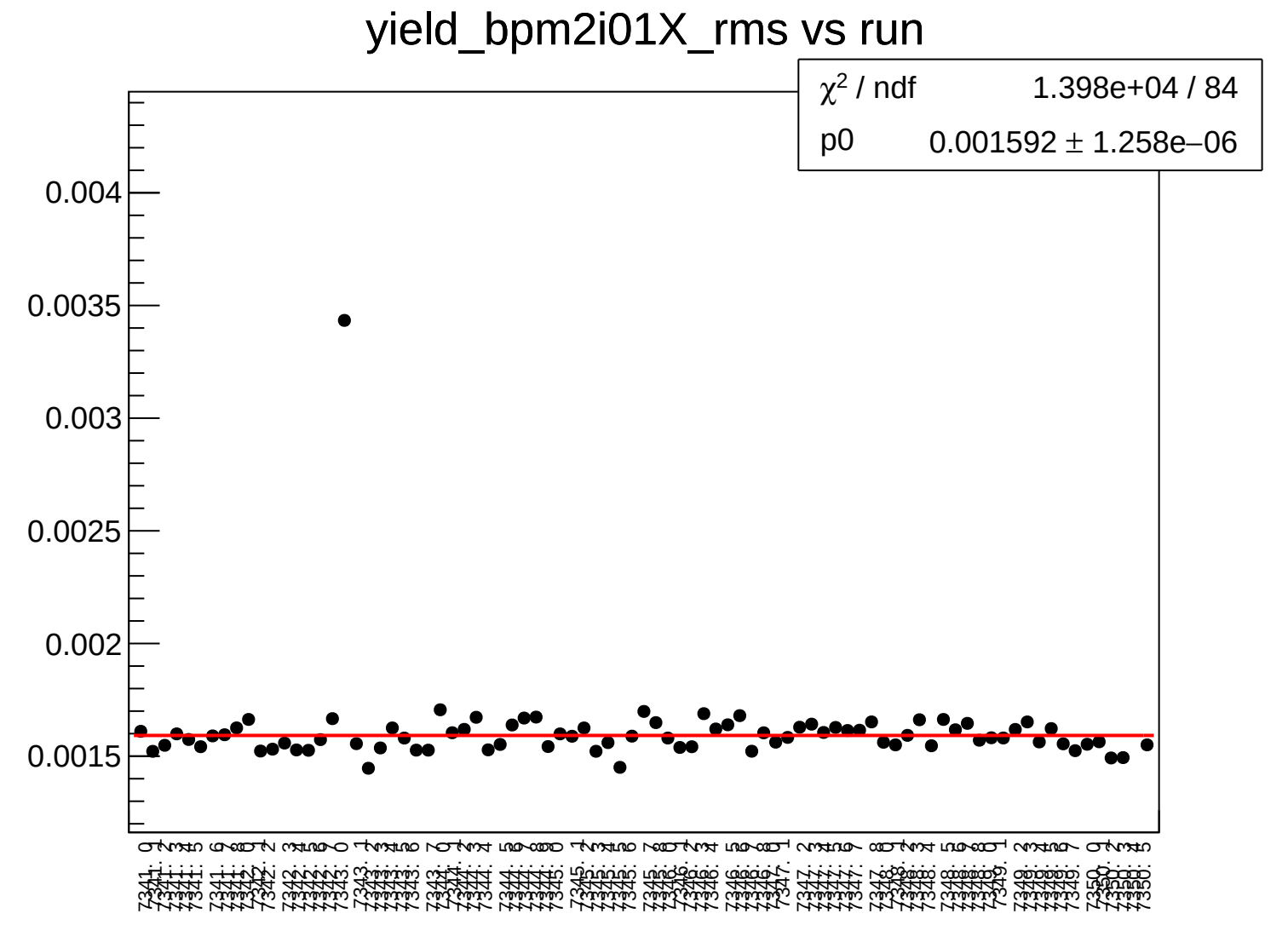

yield_bpm1i06Y_mean vs run
χ² / ndf 7.26e+06 / 84
p0 1.031± 4.501e−06
1.08
1.06
1.04
1.02
1
pull
Entries 85
Mean 98.77
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

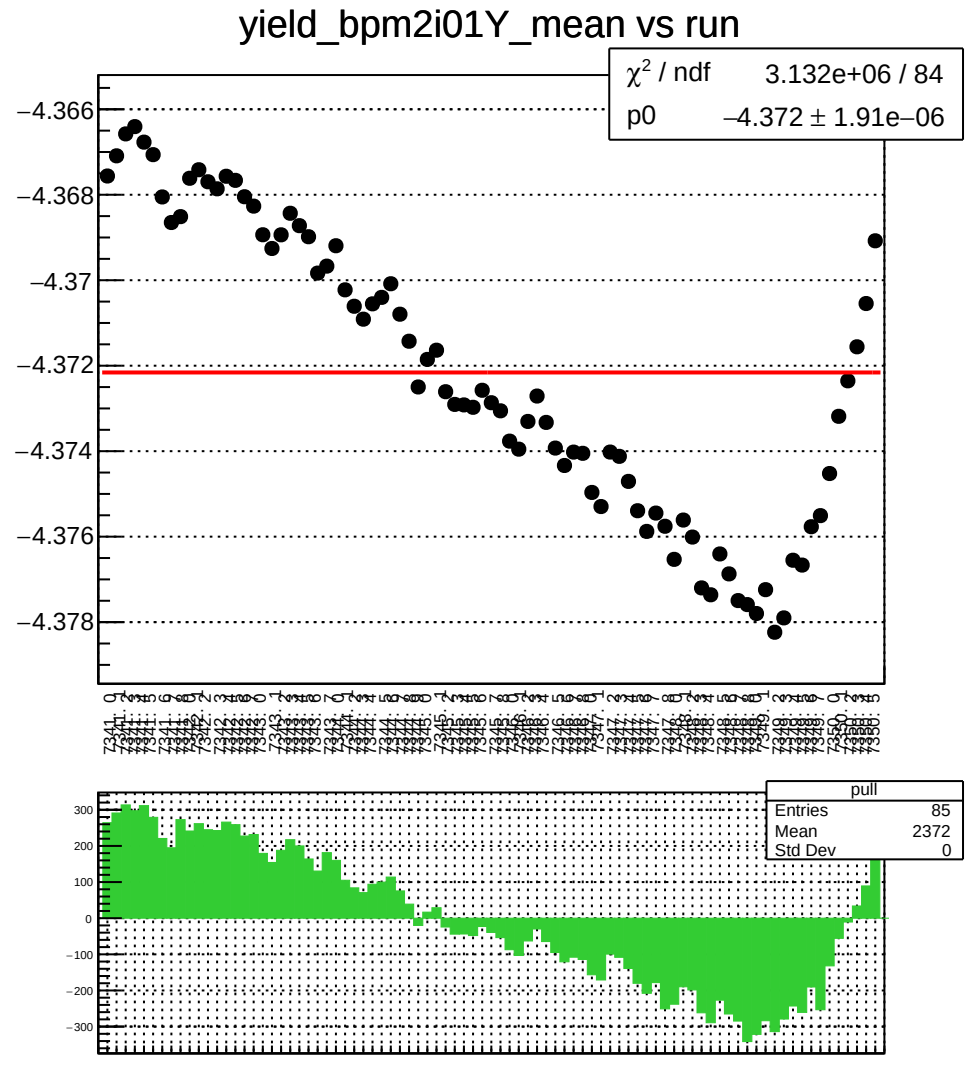

pull1D
Entries 85
Mean 6.796
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

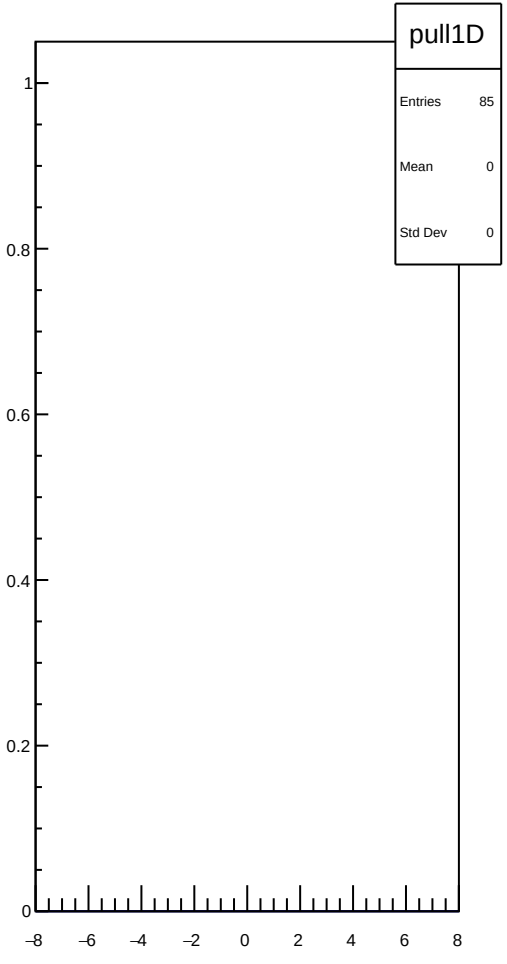

yield_bpm1i06Y_rms vs run
χ² / ndf 1.359e+05 / 84
p0 0.003872 ± 3.183e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

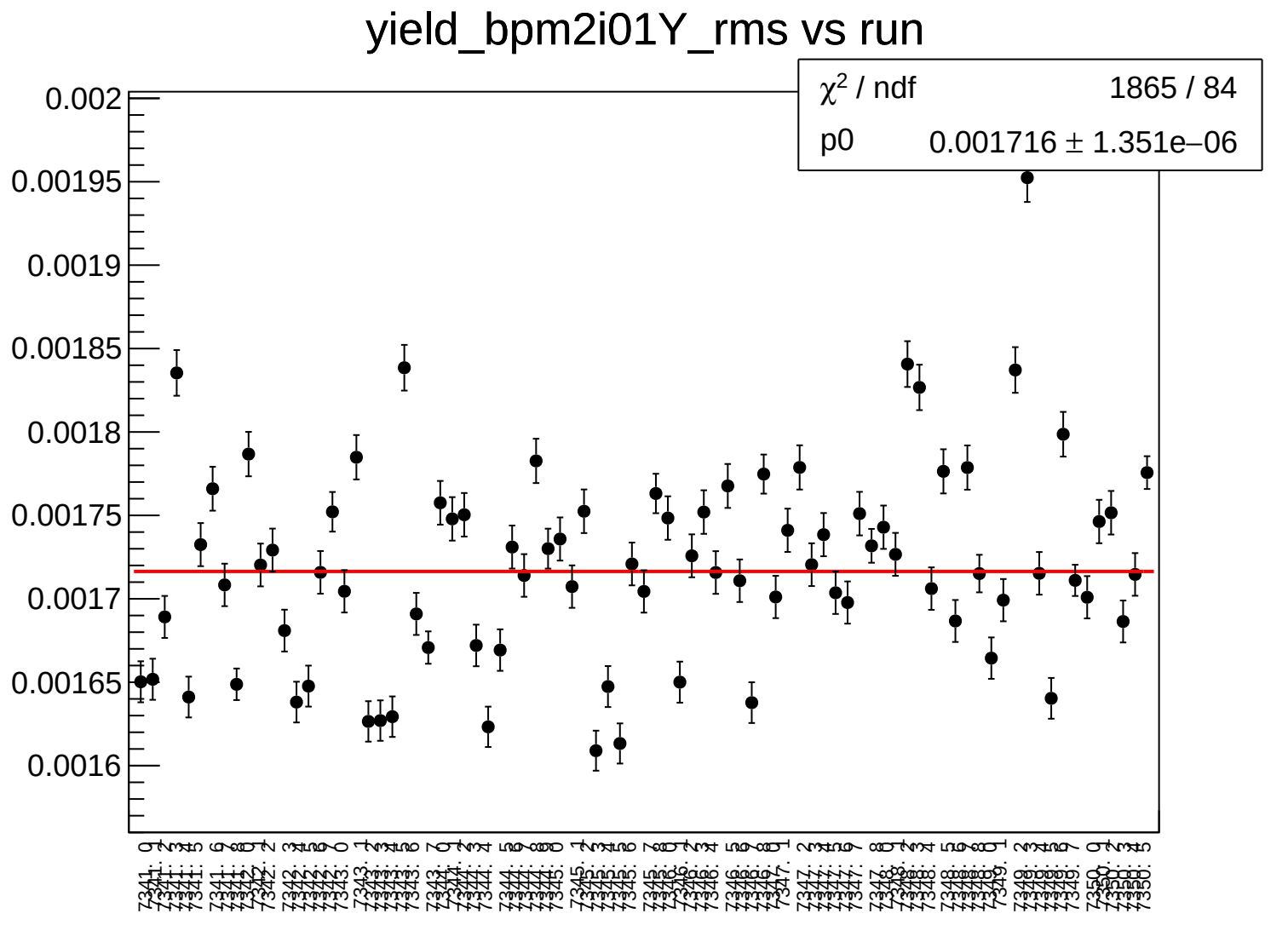

yield_bpm2i01X_mean vs run
χ² / ndf 1.055e+07 / 84
p0 0.5204 ± 1.779e−06
0.535
0.53
0.525
0.52
0.515
pull
Entries 85
Mean 1.129e+04
Std Dev 0
800
600
400
200
0
−200
−400
−600

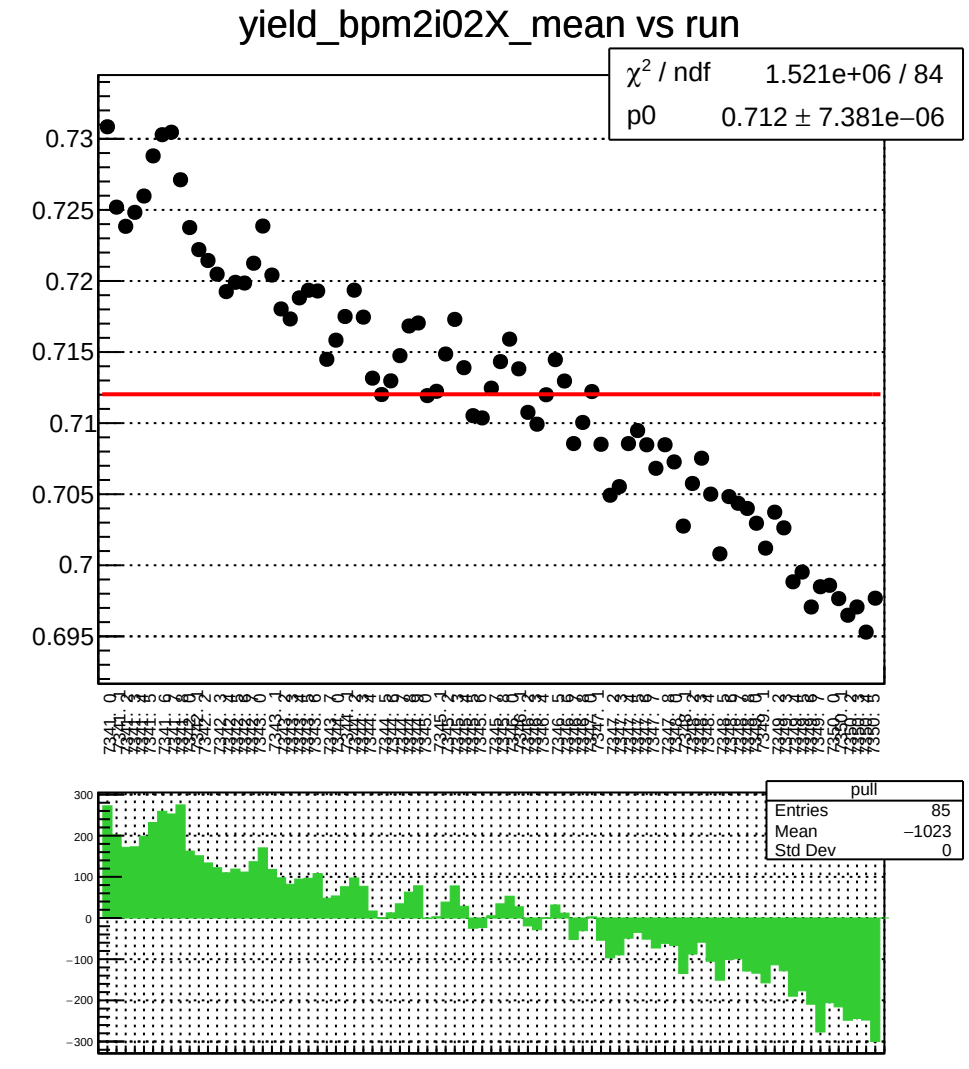

pull1D
Entries 85
Mean −1.299
Std Dev 5
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

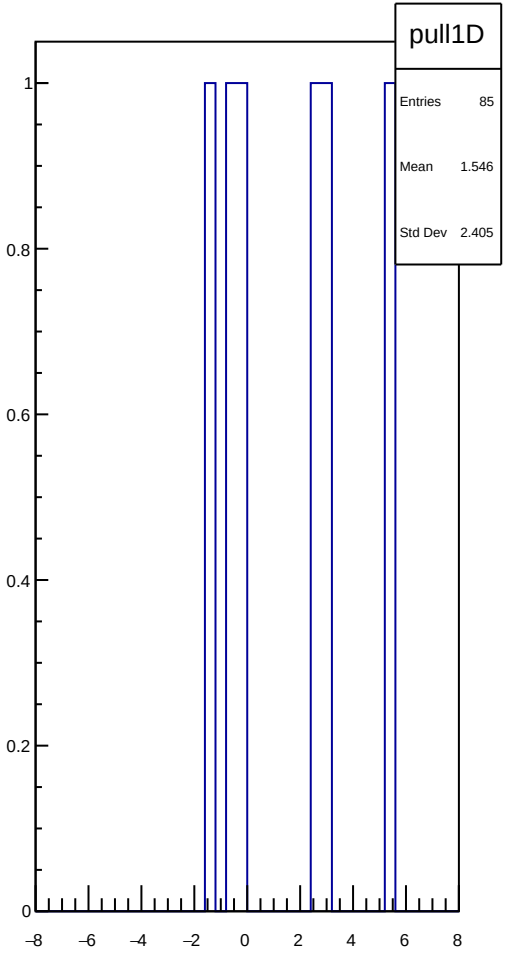

yield_bpm2i01X_rms vs run
χ² / ndf 1.398e+04 / 84
p0 0.001592 ± 1.258e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

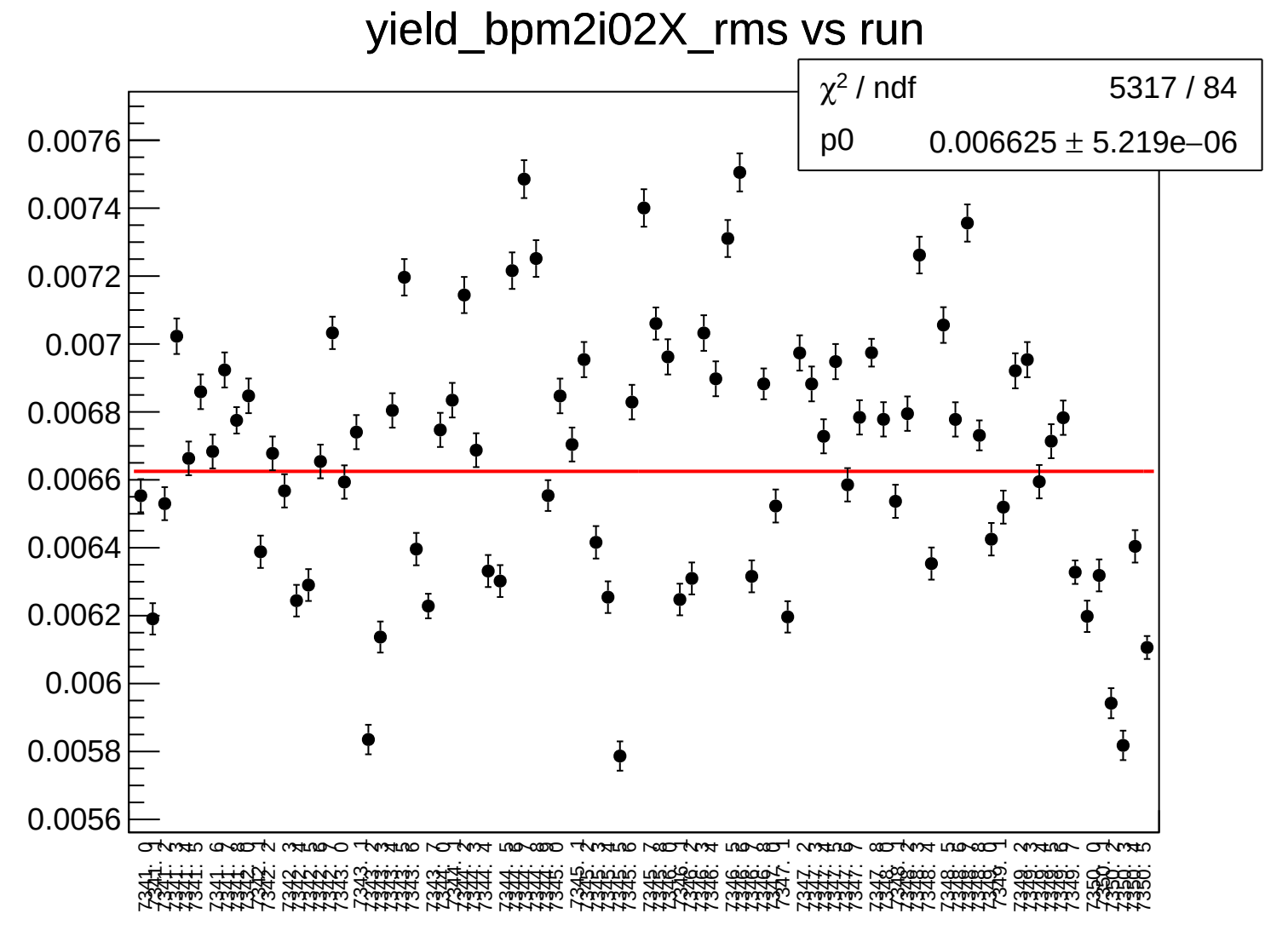

yield_bpm2i01Y_mean vs run
χ² / ndf 3.132e+06 / 84
p0 –4.372 ± 1.91e–06
–4.366
–4.368
–4.37
–4.372
–4.374
–4.376
–4.378
pull
Entries 85
Mean 2372
Std Dev 0
300
200
100
0
–100
–200
–300

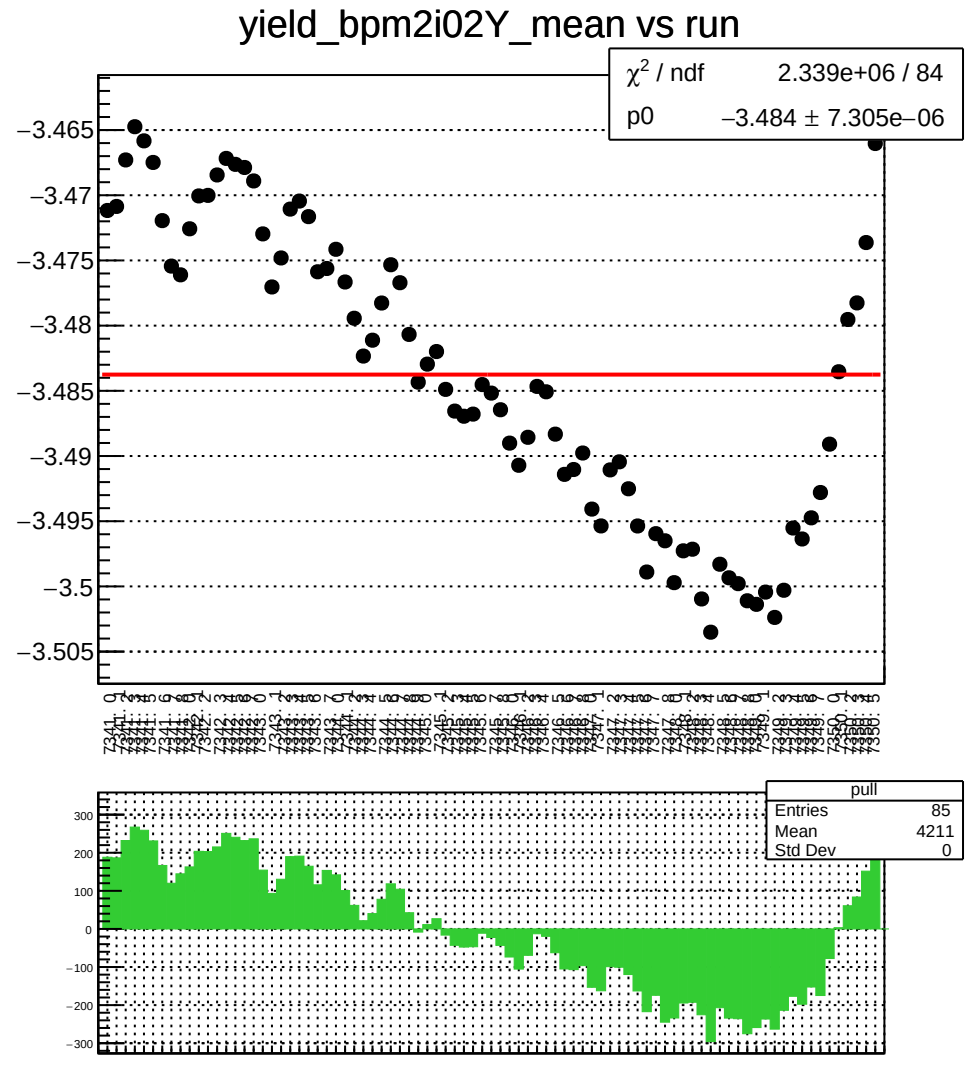

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

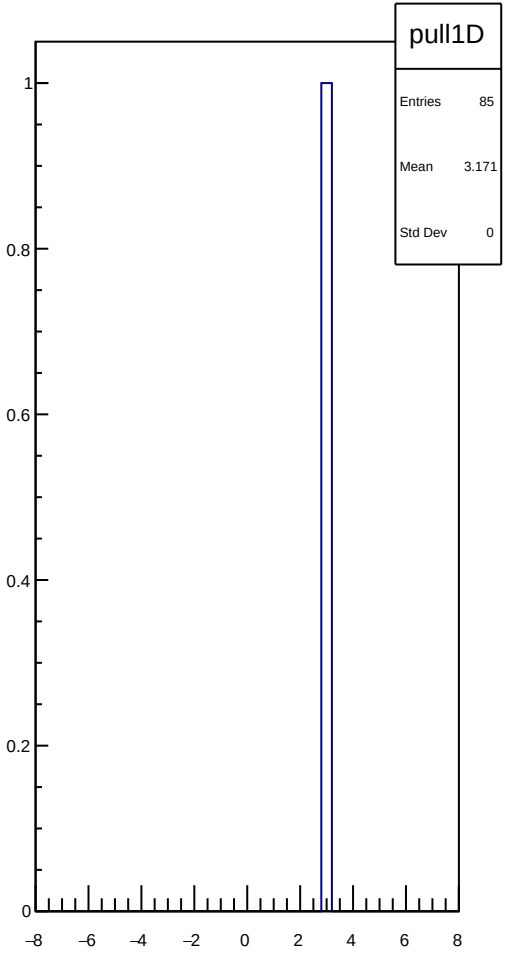

yield_bpm2i01Y_rms vs run
χ² / ndf 1865 / 84
p0 0.001716 ± 1.351e−06
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016

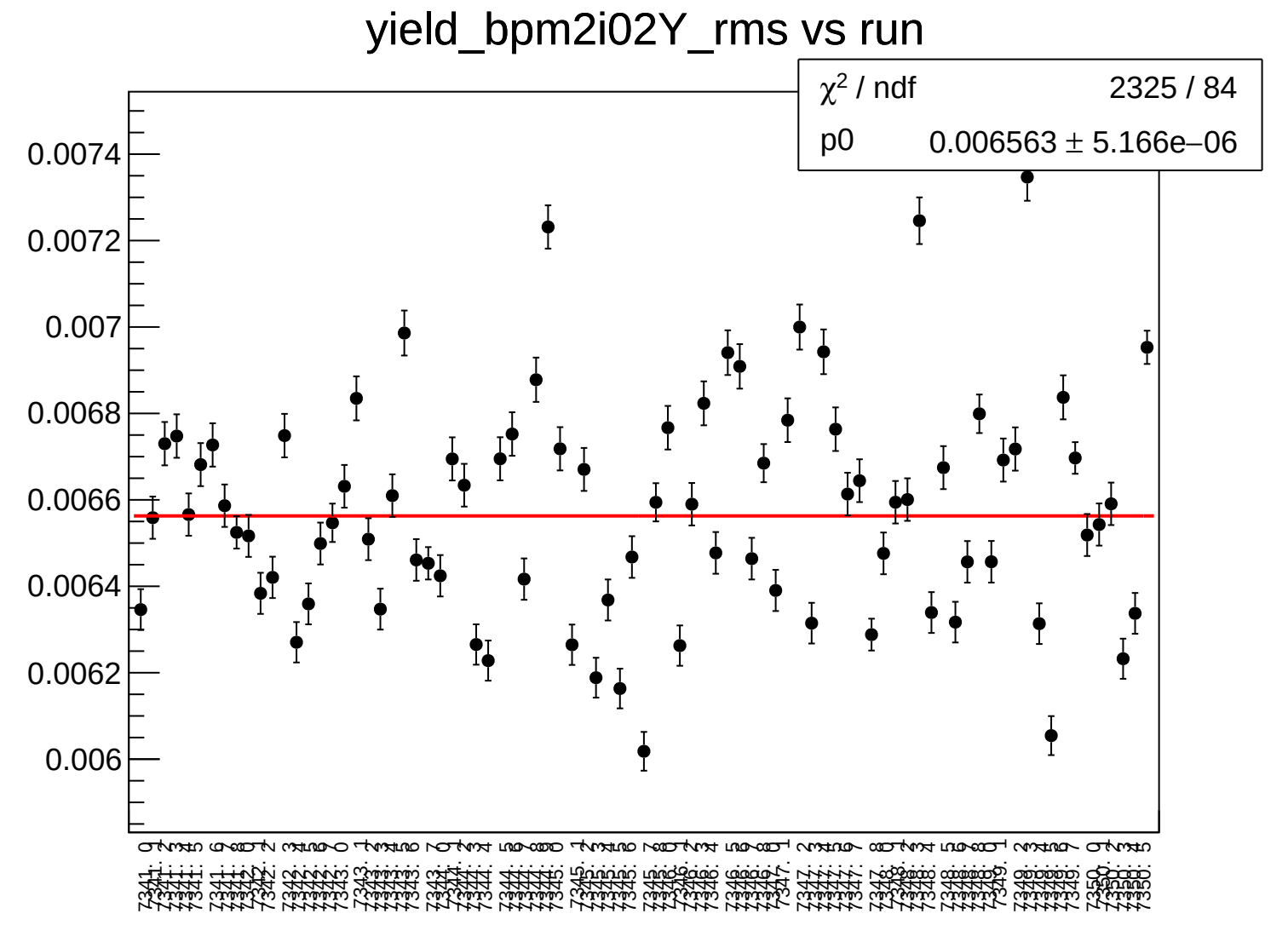

yield_bpm2i02X_mean vs run
χ² / ndf 1.521e+06 / 84
p0 0.712 ± 7.381e−06
0.73
0.725
0.72
0.715
0.71
0.705
0.7
0.695
pull
Entries 85
Mean −1023
Std Dev 0
300
200
100
0
−100
−200
−300

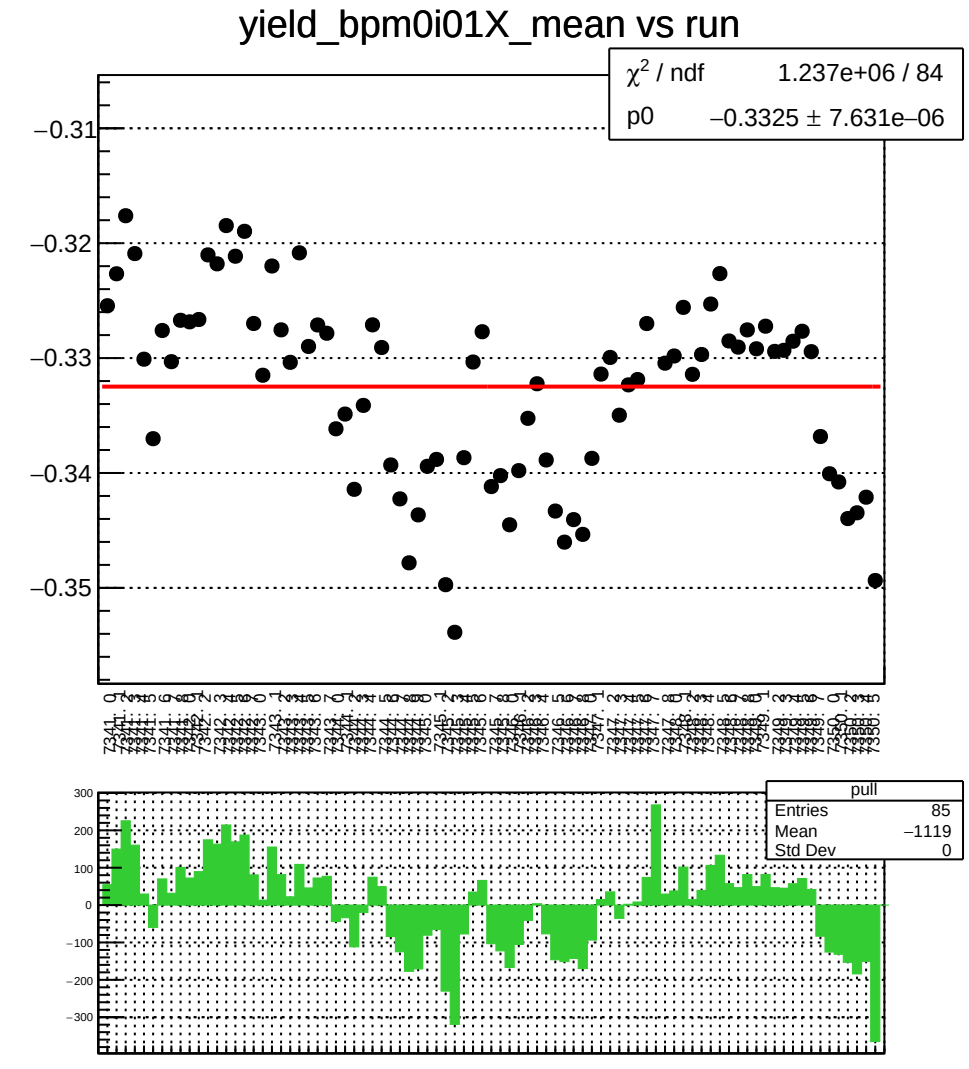

pull1D
Entries 85
Mean 1.546
Std Dev 2.405
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

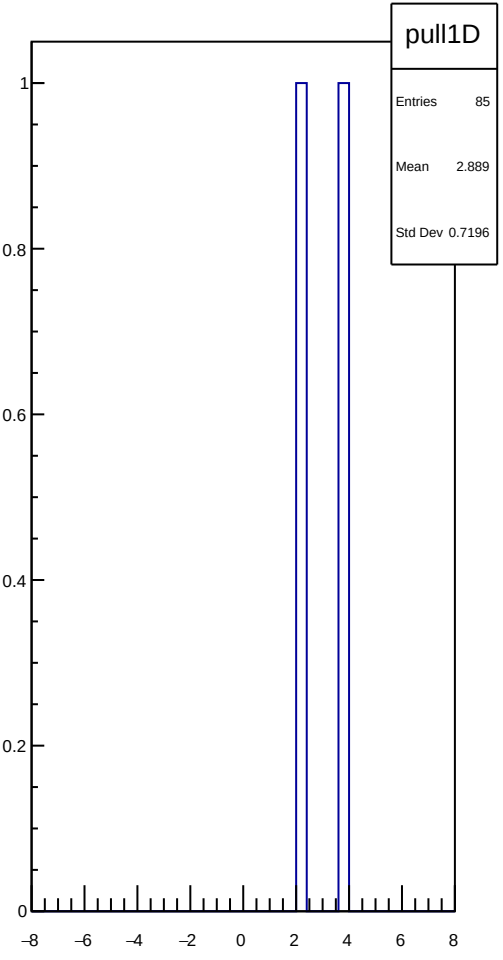

yield_bpm2i02X_rms vs run
χ^2 / ndf 5317 / 84
p0 0.006625 ± 5.219e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

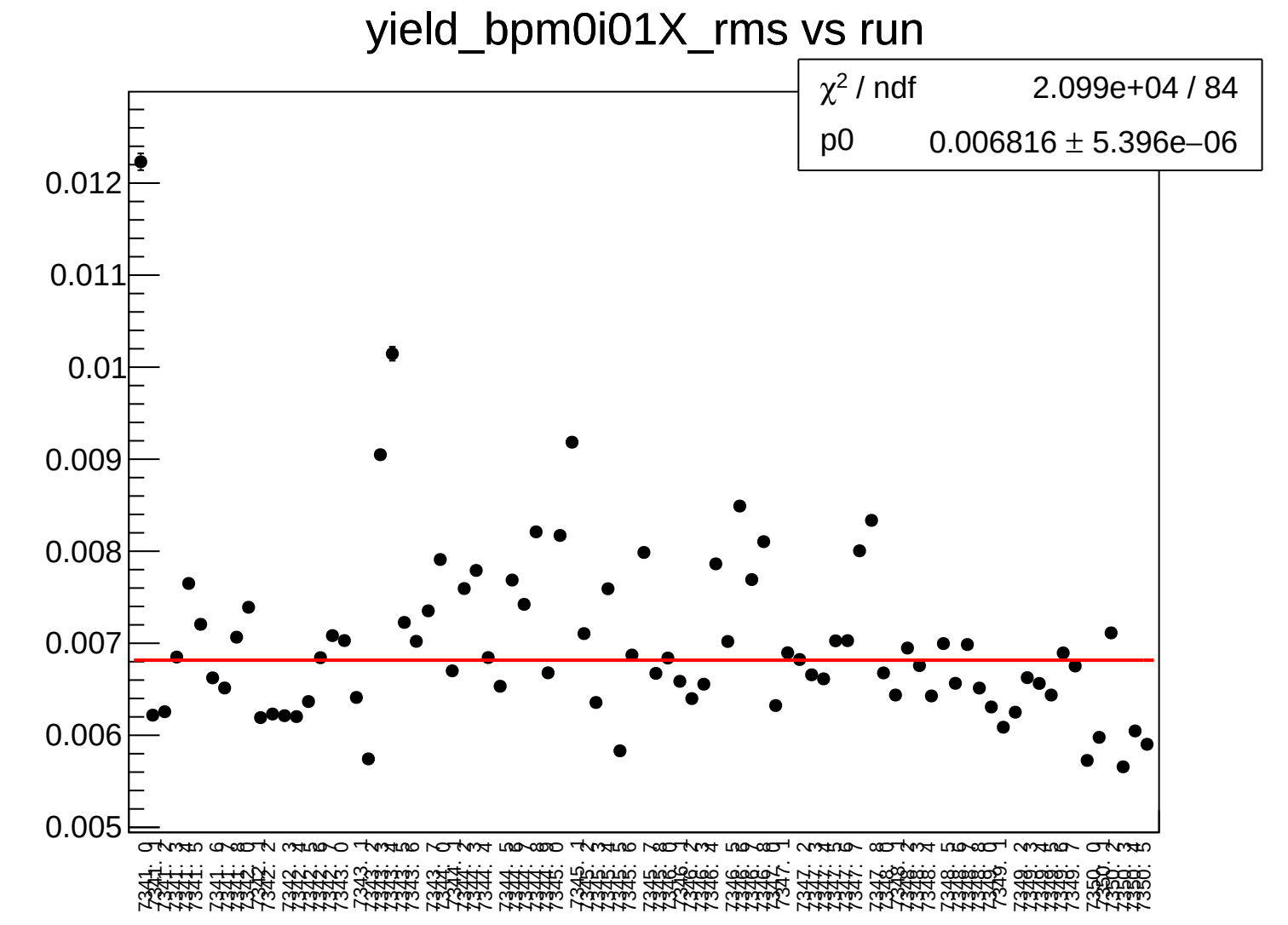

yield_bpm2i02Y_mean vs run
χ² / ndf 2.339e+06 / 84
p0 −3.484 ± 7.305e−06
−3.465
−3.47
−3.475
−3.48
−3.485
−3.49
−3.495
−3.5
−3.505
pull
Entries 85
Mean 4211
Std Dev 0
300
200
100
0
−100
−200
−300

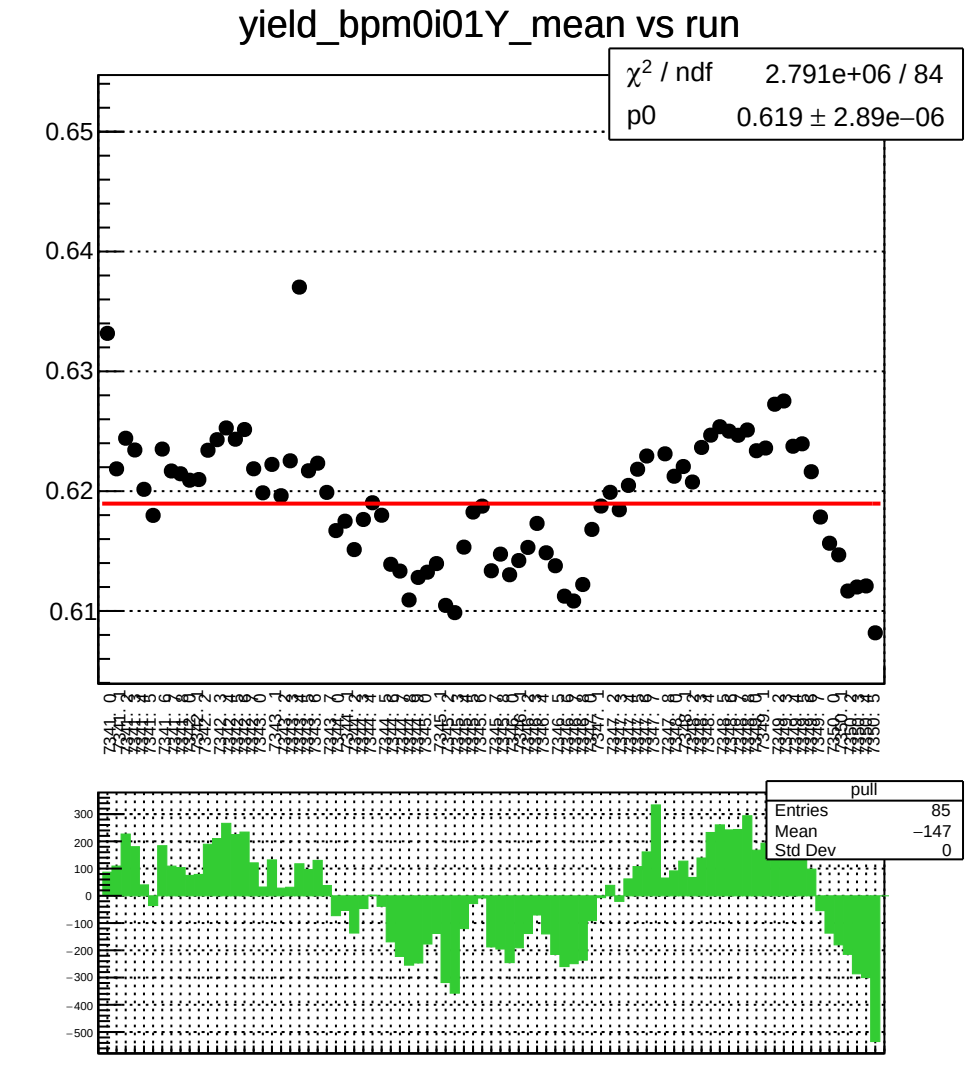

pull1D
Entries 85
Mean 3.171
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

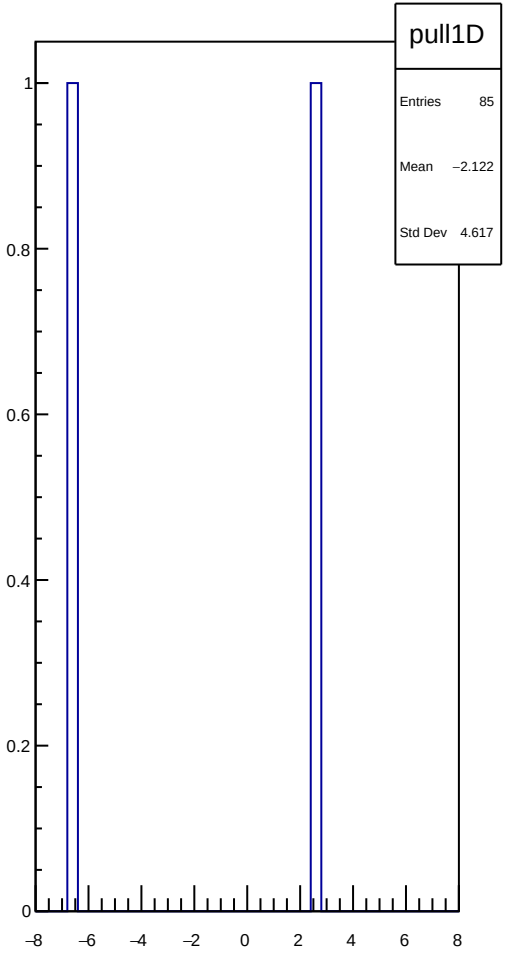

yield_bpm2i02Y_rms vs run
χ^2 / ndf 2325 / 84
p0 0.006563 ± 5.166e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

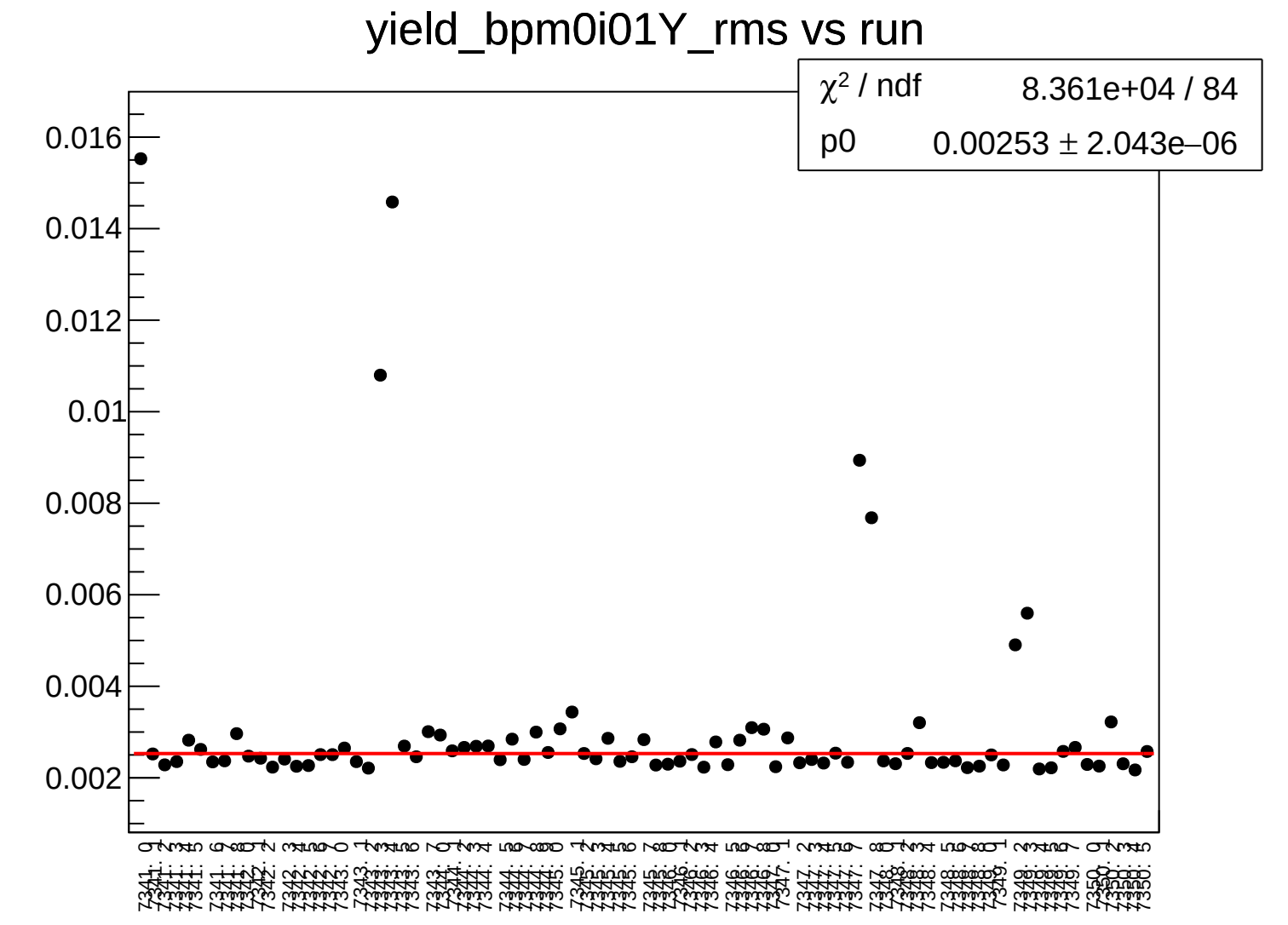

yield_bpm0i01X_mean vs run
χ² / ndf 1.237e+06 / 84
p0 −0.3325 ± 7.631e−06
−0.31
−0.32
−0.33
−0.34
−0.35
pull
Entries 85
Mean −1119
Std Dev 0
300
200
100
0
−100
−200
−300

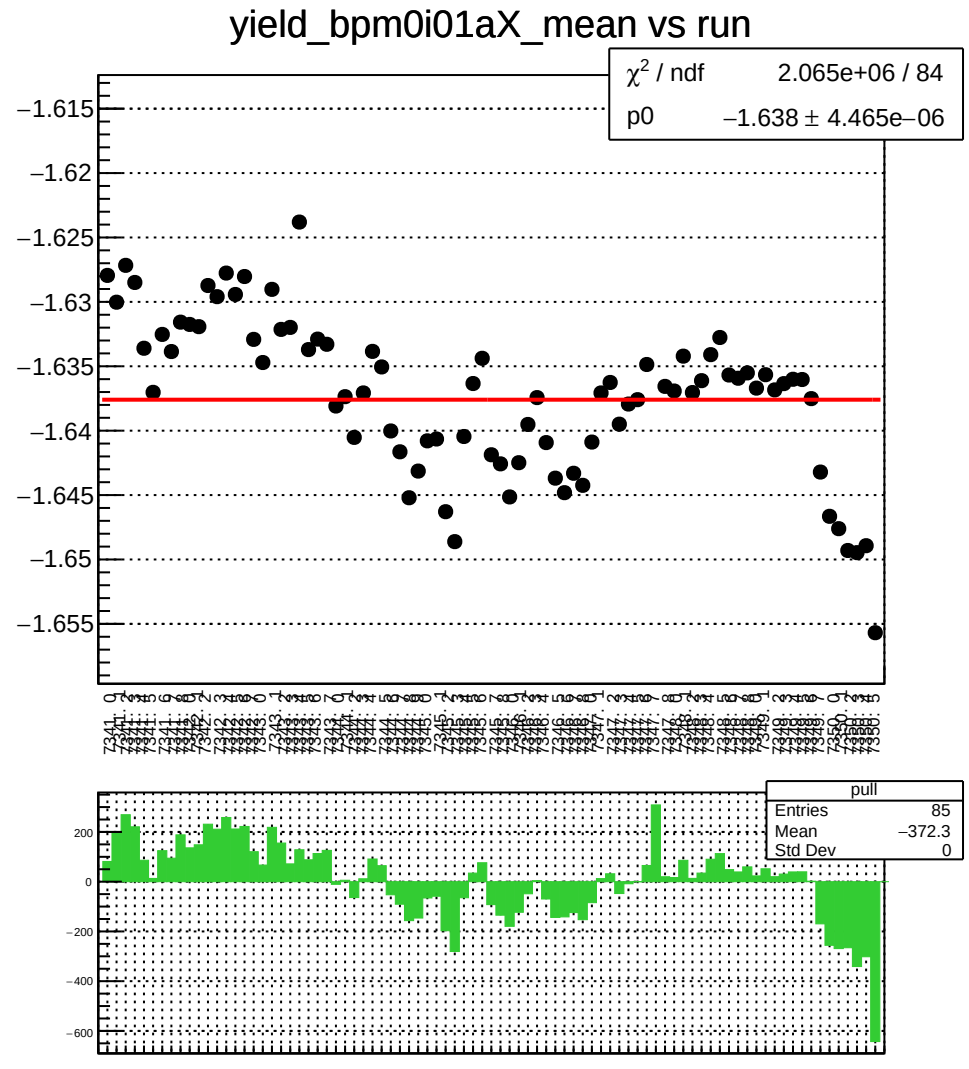

pull1D
Entries 85
Mean 2.889
Std Dev 0.7196
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

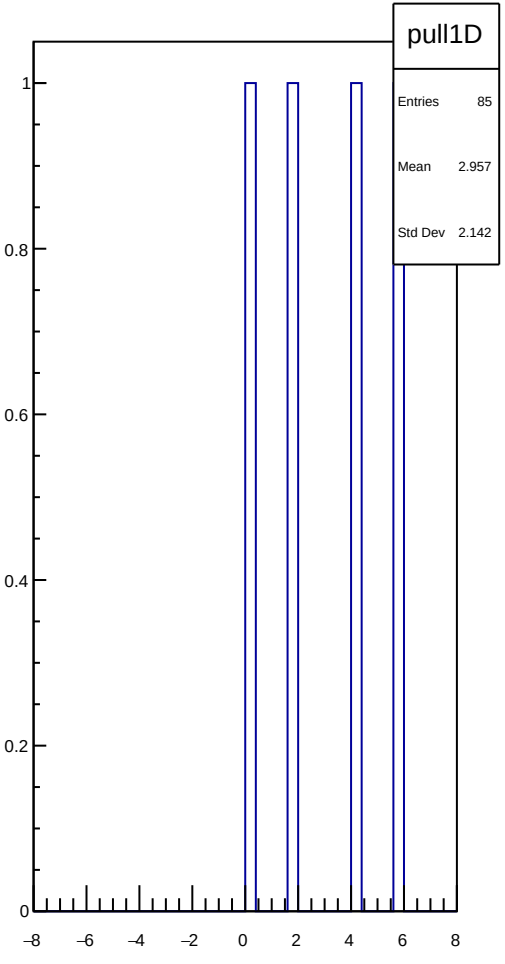

yield_bpm0i01X_rms vs run
χ² / ndf 2.099e+04 / 84
p0 0.006816 ± 5.396e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

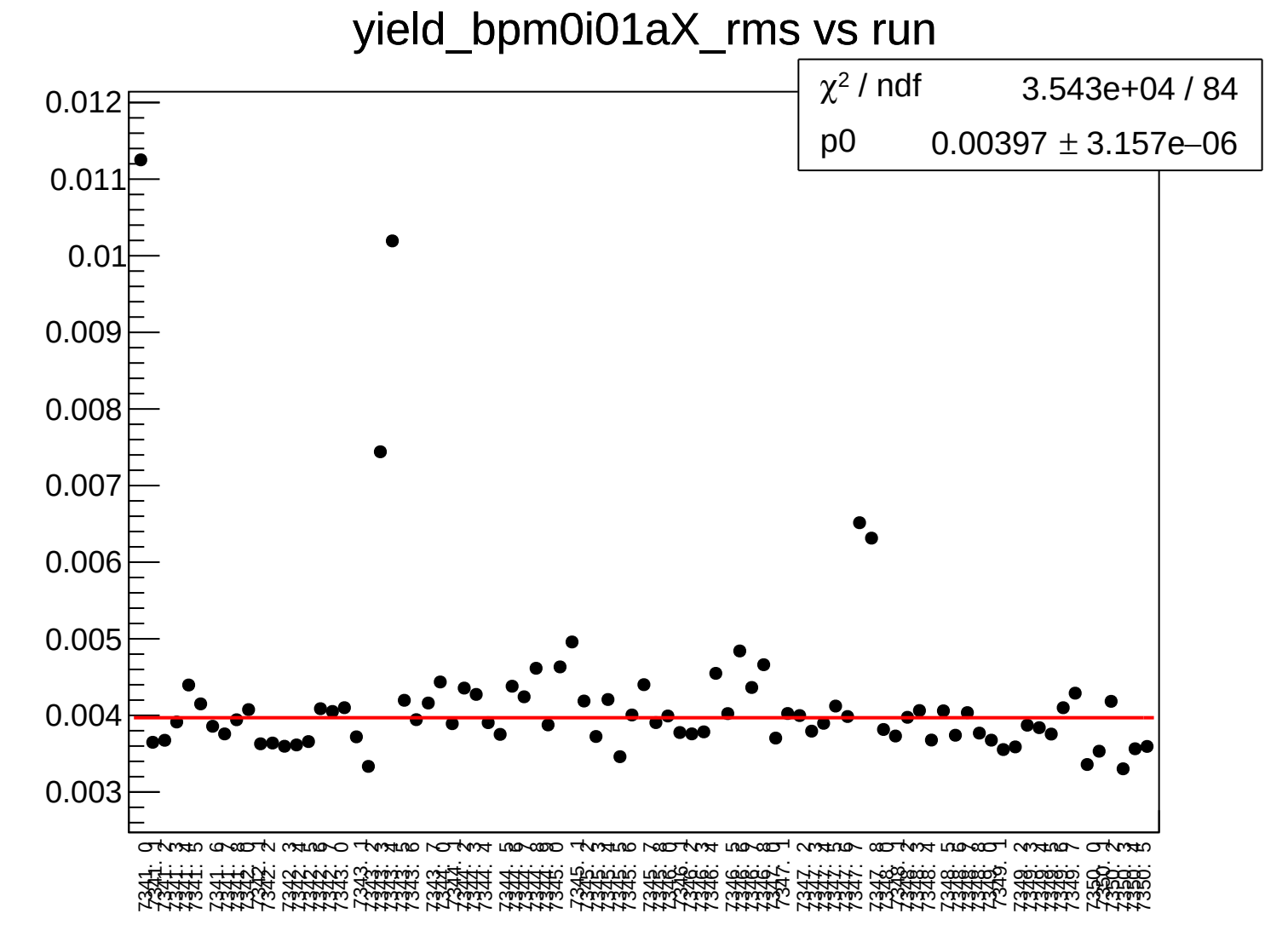

yield_bpm0i01Y_mean vs run
χ² / ndf 2.791e+06 / 84
p0 0.619 ± 2.89e−06
0.65
0.64
0.63
0.62
0.61
pull
Entries 85
Mean −147
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

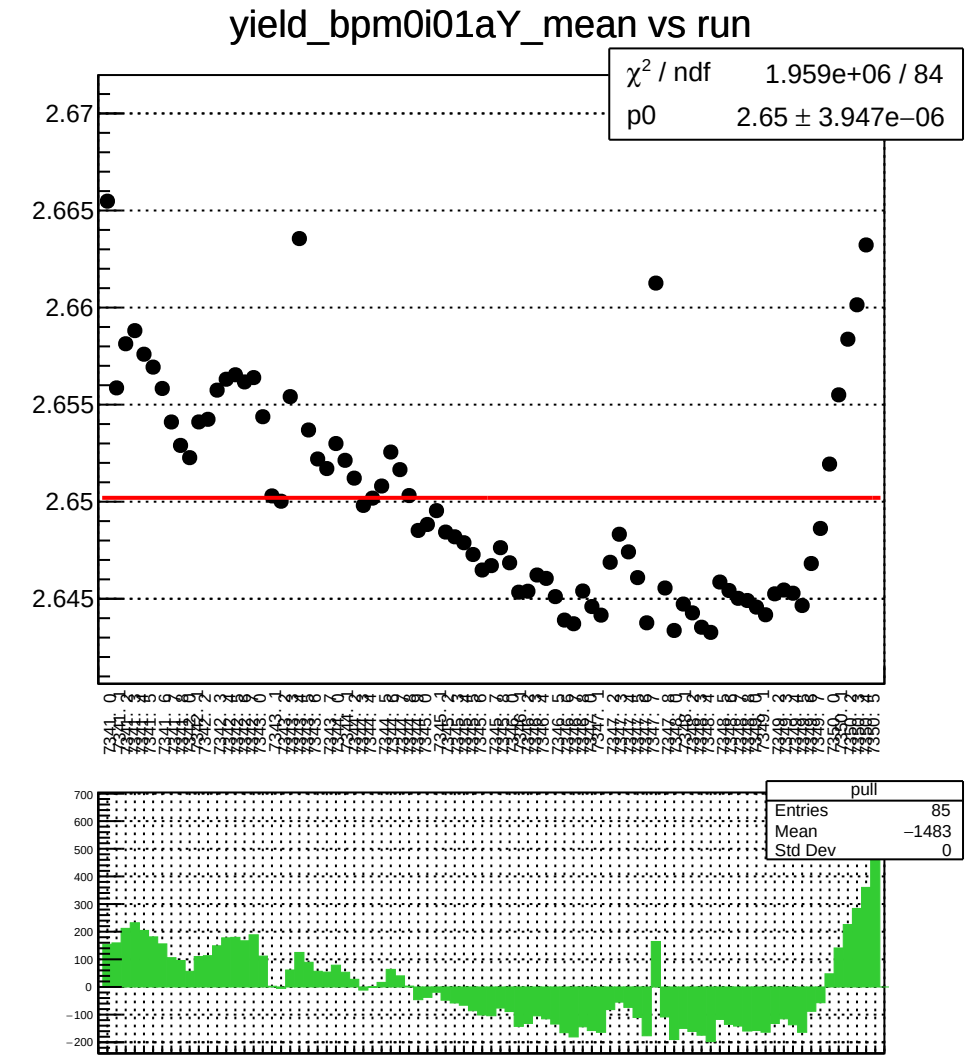

pull1D
Entries 85
Mean −2.122
Std Dev 4.617
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

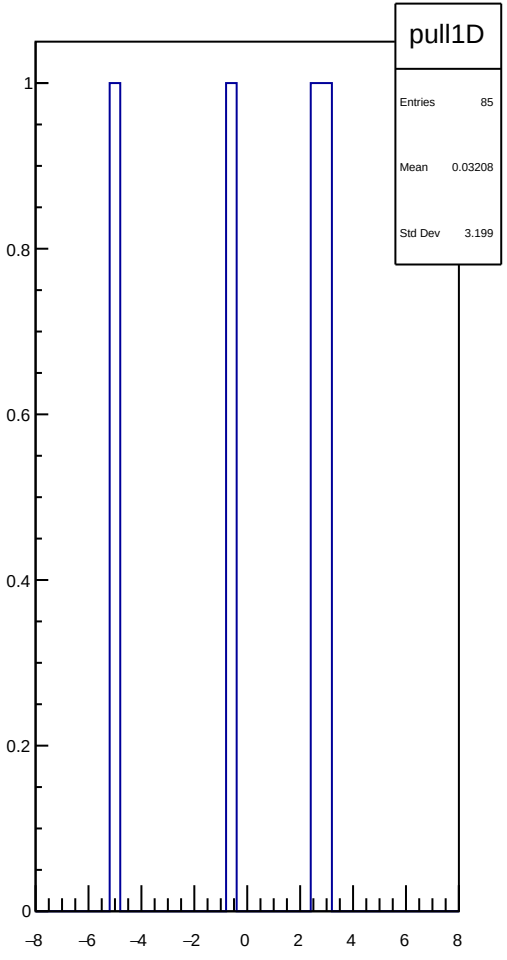

yield_bpm0i01Y_rms vs run
χ² / ndf 8.361e+04 / 84
p0 0.00253 ± 2.043e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

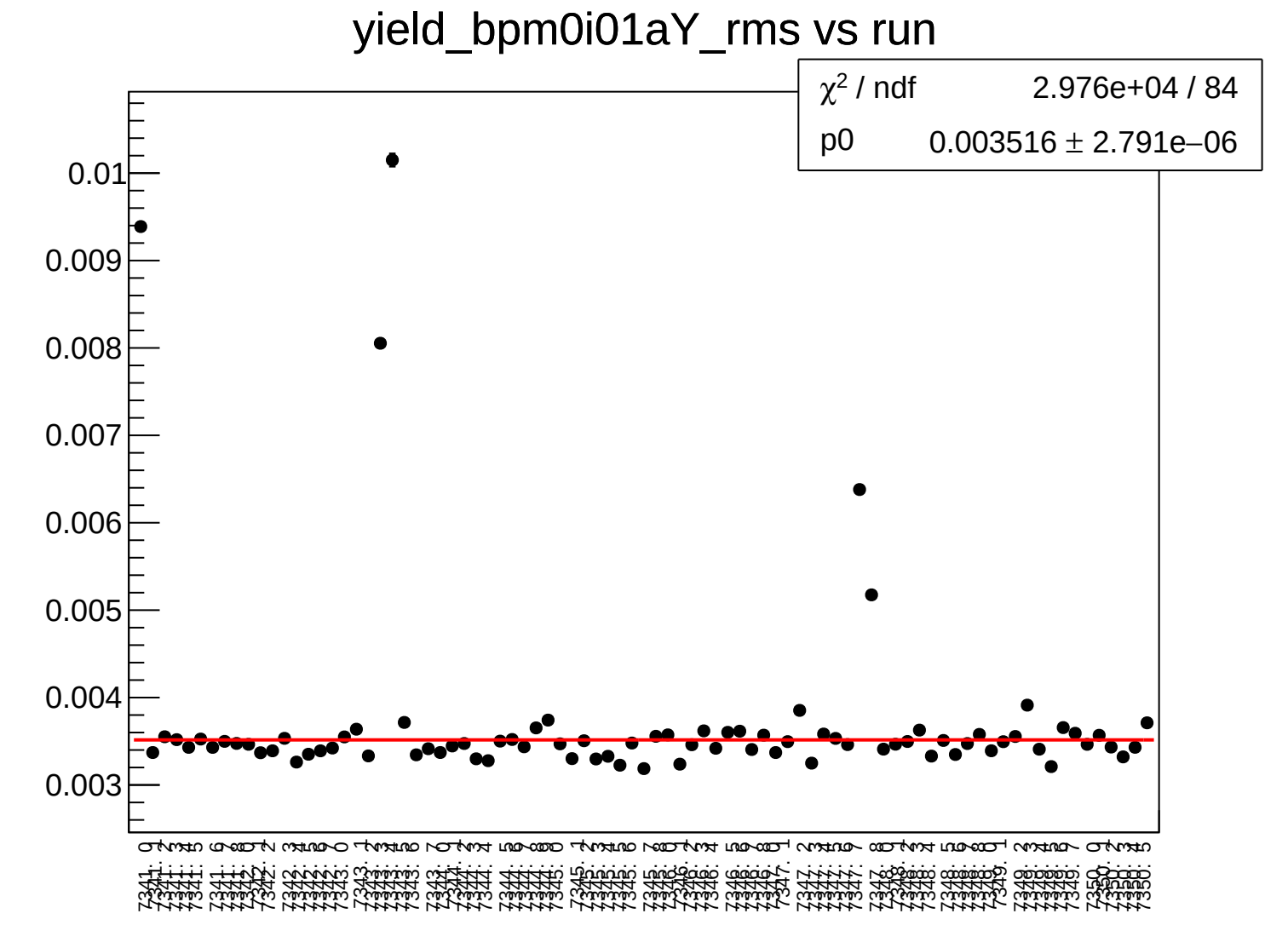

yield_bpm0i01aX_mean vs run
χ² / ndf 2.065e+06 / 84
p0 −1.638 ± 4.465e−06
−1.615
−1.62
−1.625
−1.63
−1.635
−1.64
−1.645
−1.65
−1.655
pull
Entries 85
Mean −372.3
Std Dev 0
200
0
−200
−400
−600

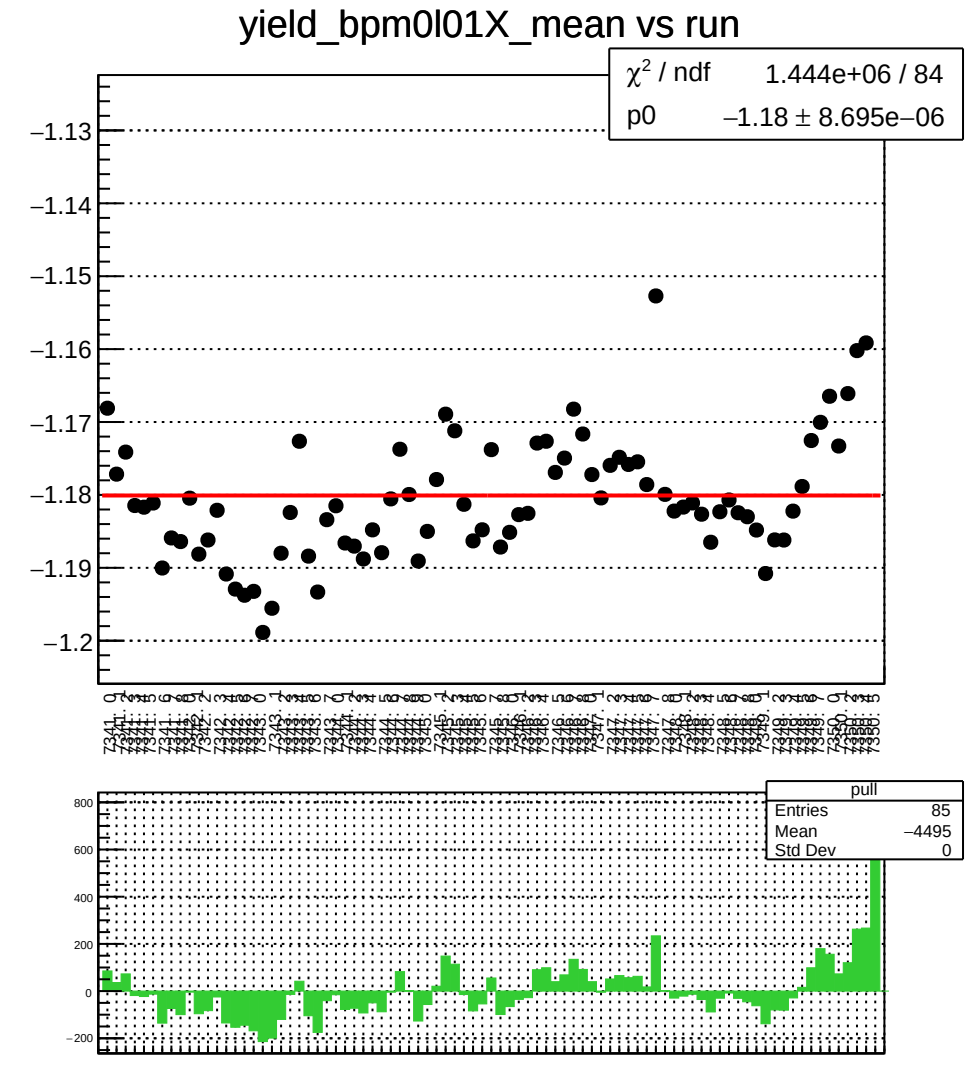

pull1D
Entries 85
Mean 2.957
Std Dev 2.142
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

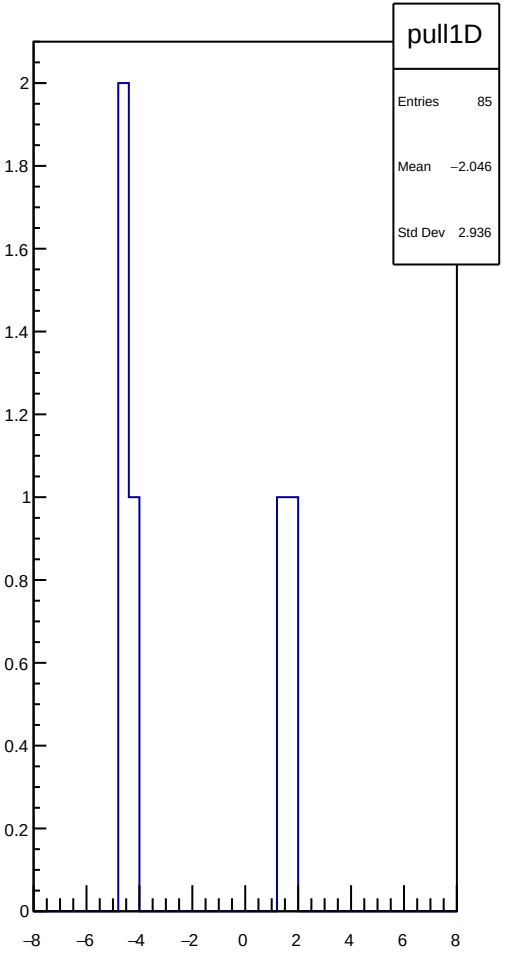

yield_bpm0i01aX_rms vs run
χ² / ndf 3.543e+04 / 84
p0 0.00397 ± 3.157e–06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

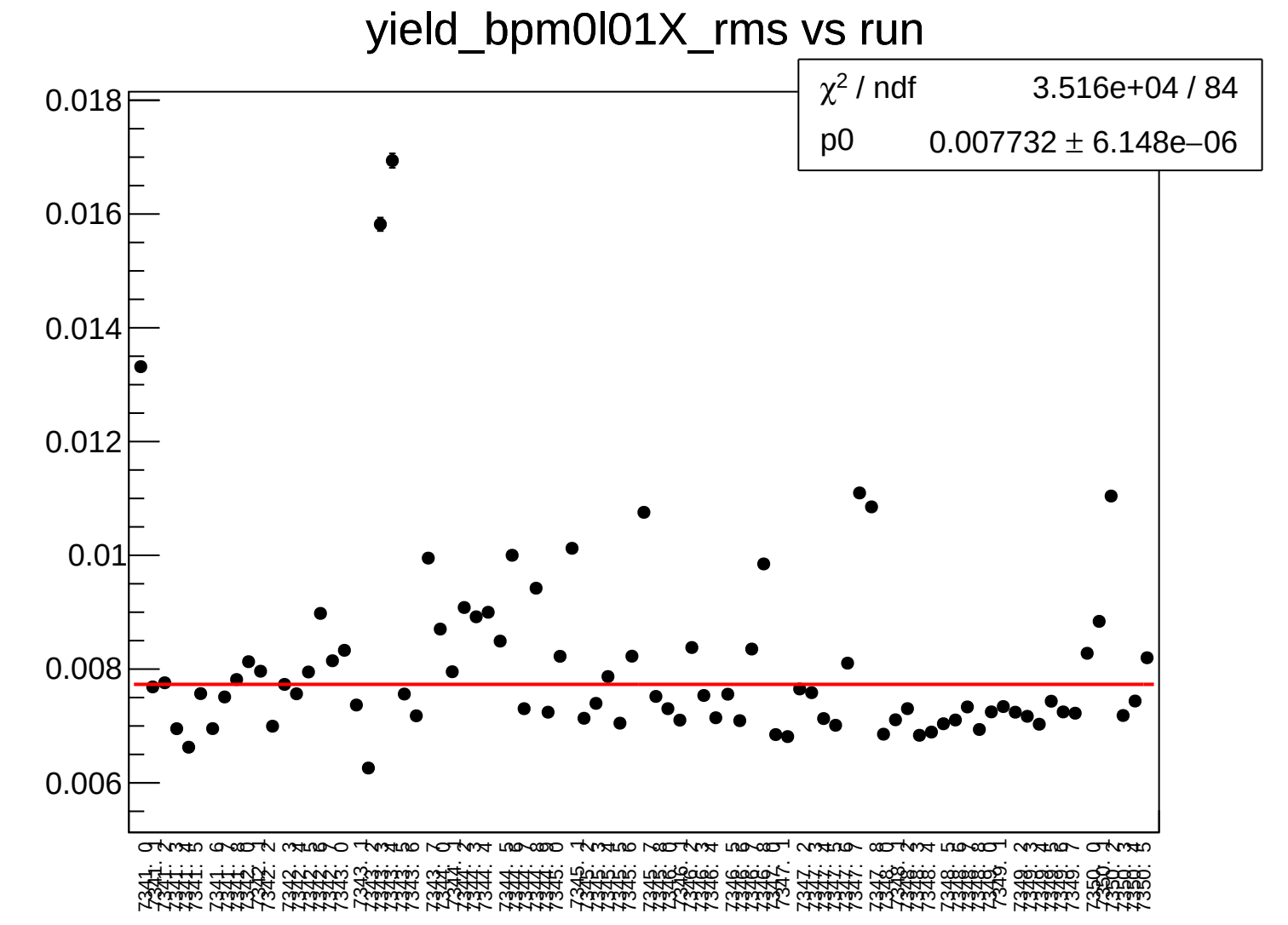

yield_bpm0i01aY_mean vs run
χ² / ndf 1.959e+06 / 84
p0 2.65 ± 3.947e−06
2.67
2.665
2.66
2.655
2.65
2.645
pull
Entries 85
Mean −1483
Std Dev 0
700
600
500
400
300
200
100
0
−100
−200

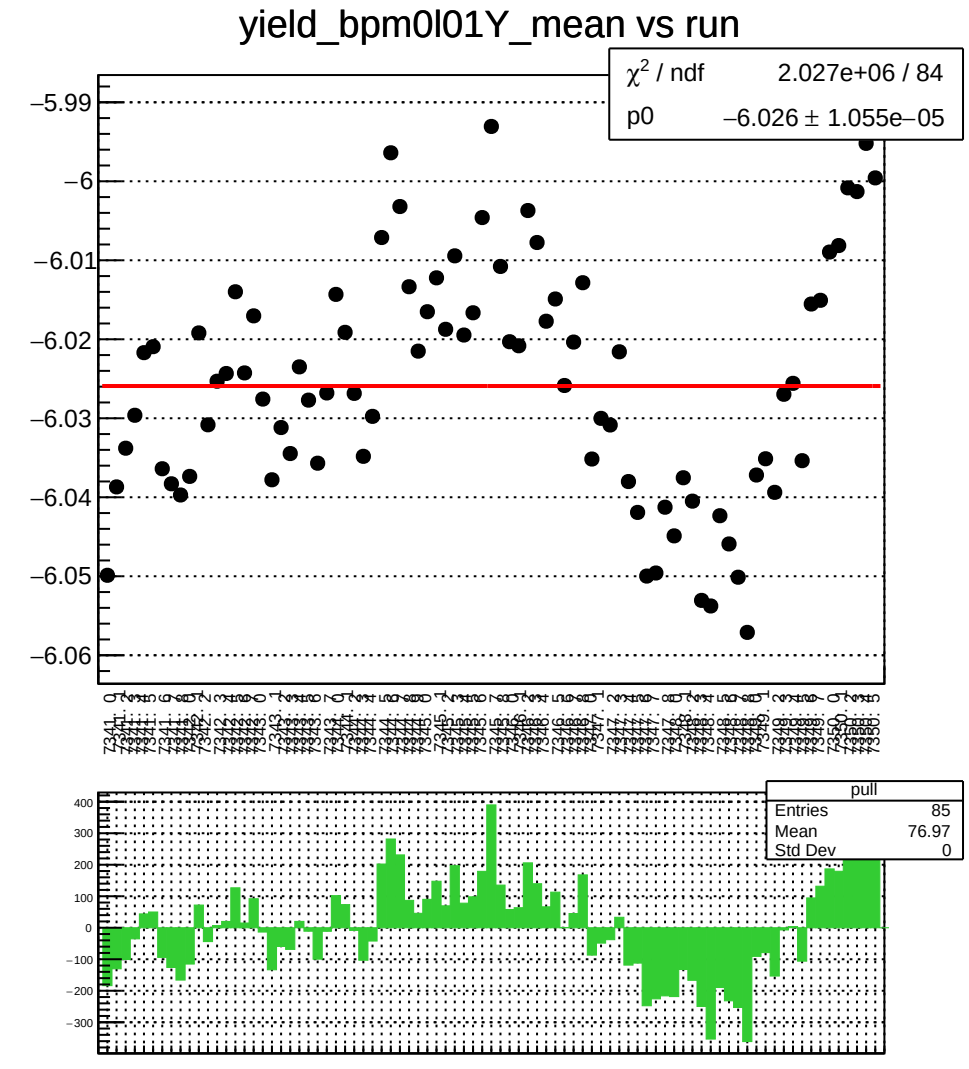

pull1D
Entries 85
Mean 0.03208
Std Dev 3.199
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

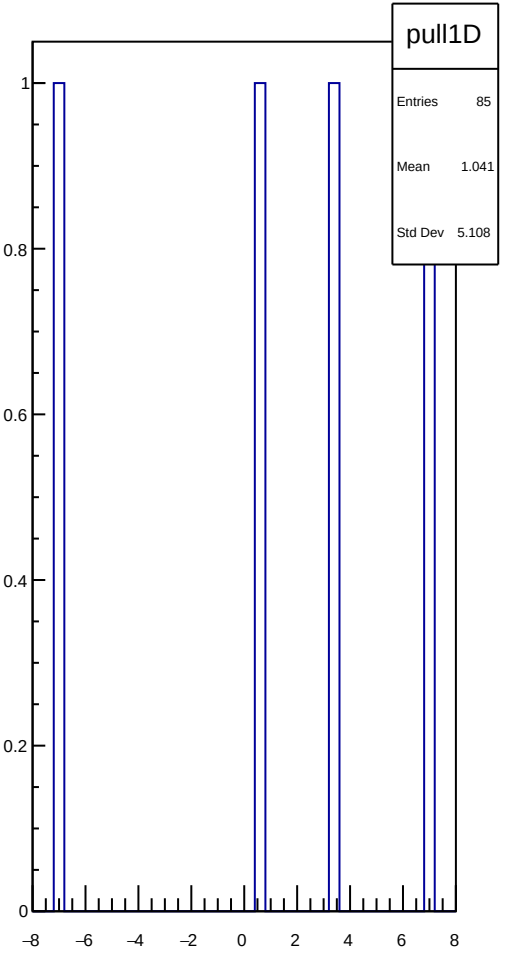

yield_bpm0i01aY_rms vs run
χ^2 / ndf 2.976e+04 / 84
p0 0.003516 ± 2.791e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

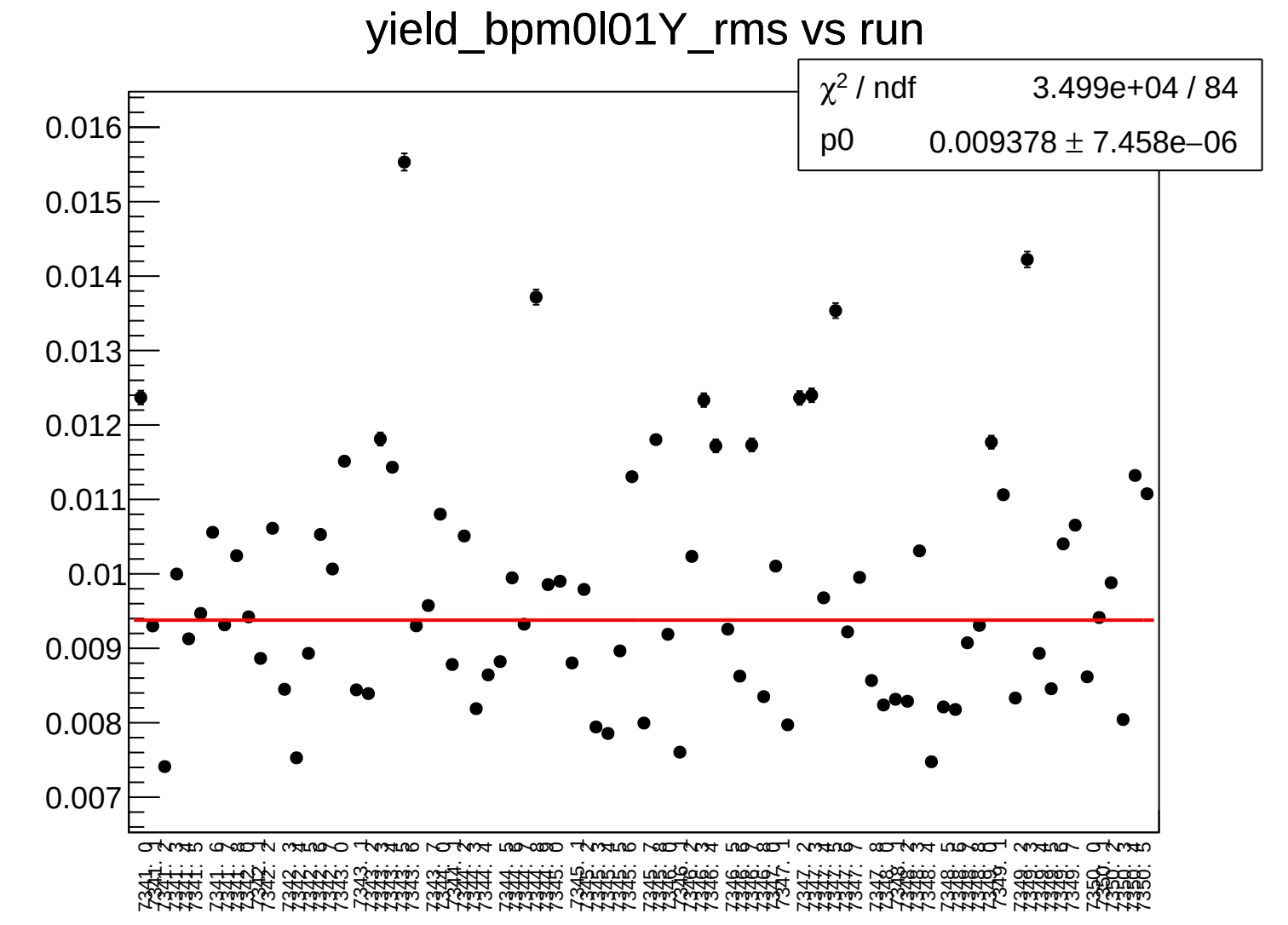

yield_bpm0l01X_mean vs run
χ² / ndf 1.444e+06 / 84
p0 −1.18 ± 8.695e−06
−1.13
−1.14
−1.15
−1.16
−1.17
−1.18
−1.19
−1.2
pull
Entries 85
Mean −4495
Std Dev 0
800
600
400
200
0
−200

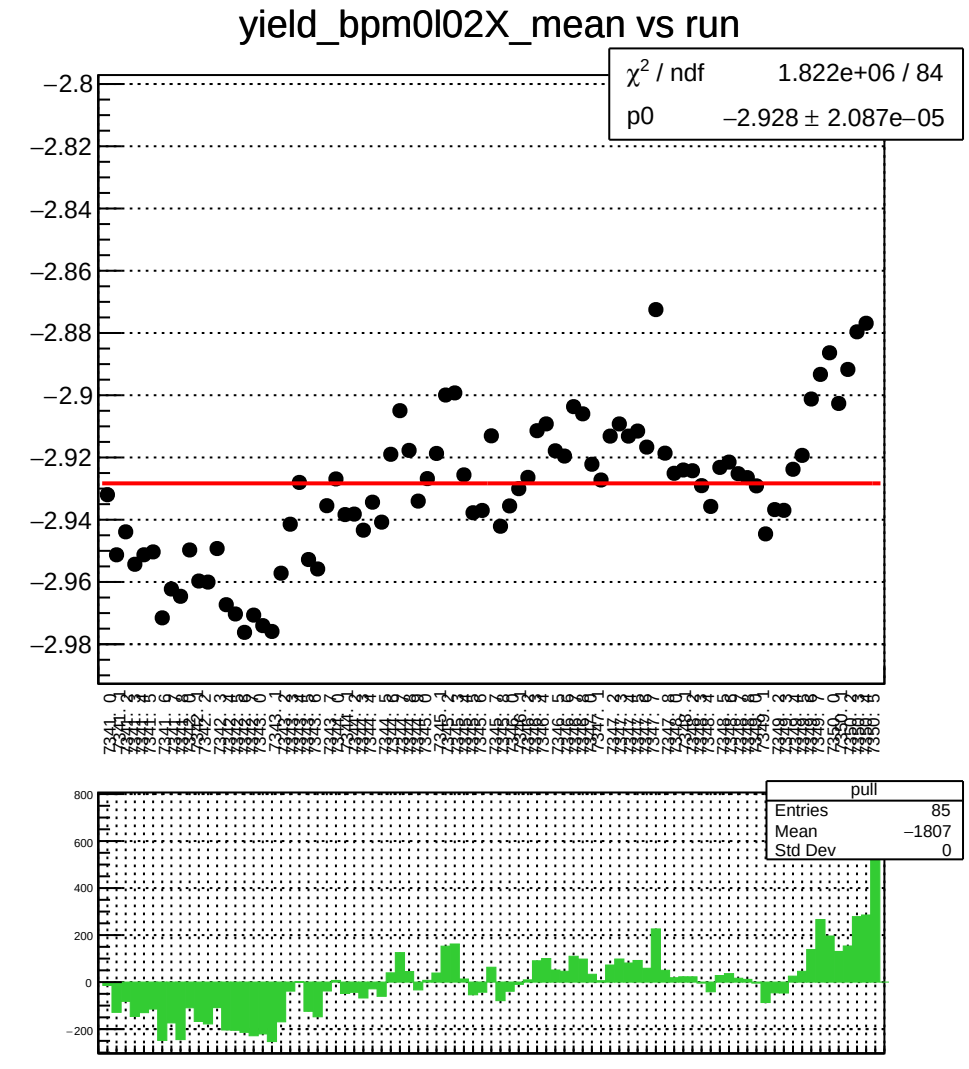

pull1D
Entries 85
Mean −2.046
Std Dev 2.936
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

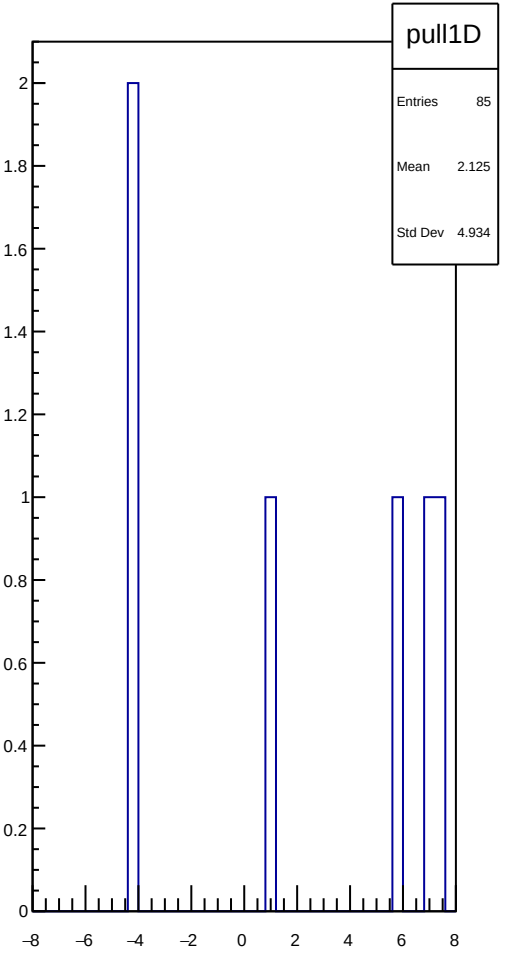

yield_bpm0l01X_rms vs run
χ^2 / ndf 3.516e+04 / 84
p0 0.007732 ± 6.148e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

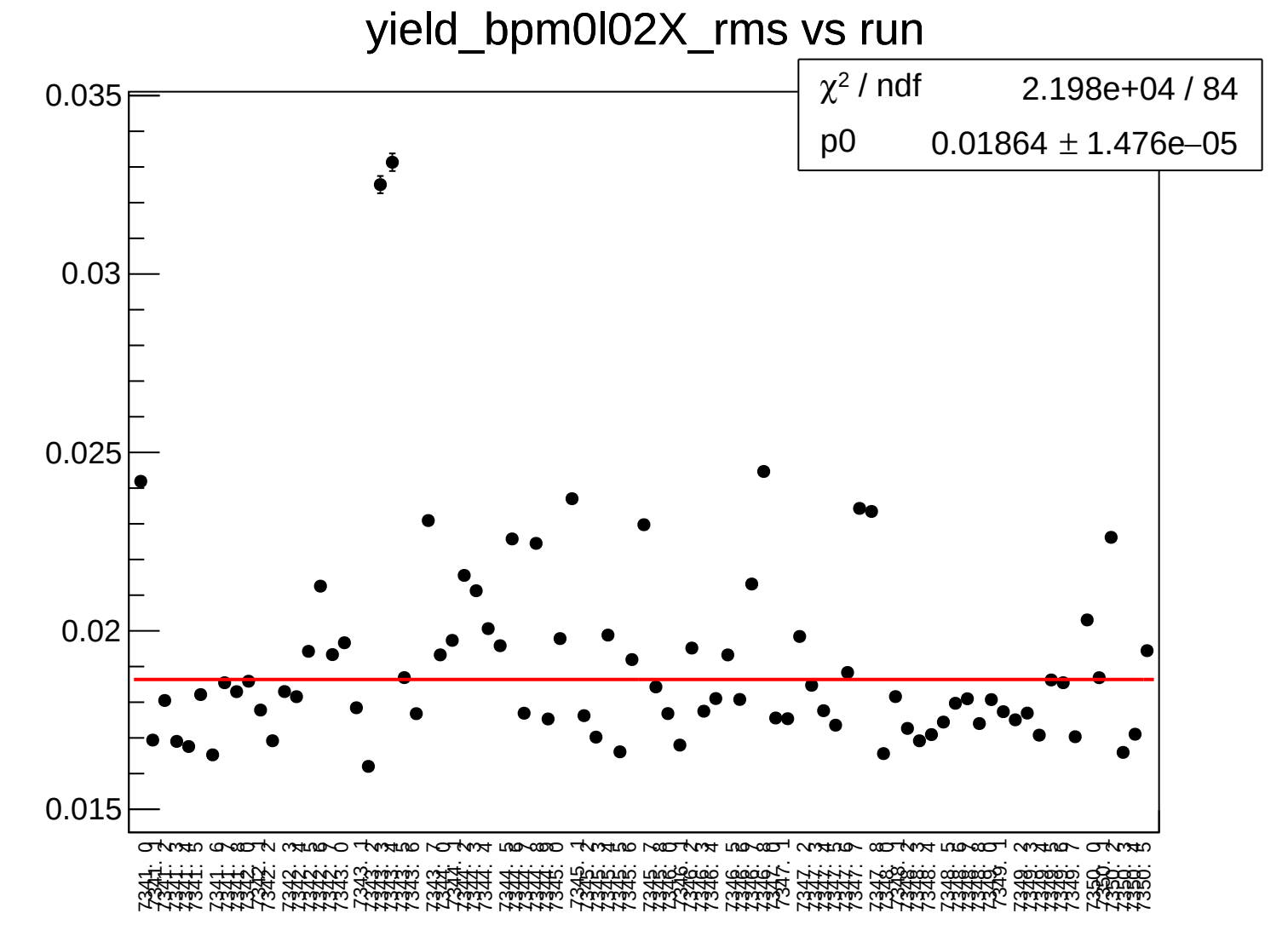

yield_bpm0l01Y_mean vs run
χ² / ndf 2.027e+06 / 84
p0 −6.026 ± 1.055e−05
−5.99
−6
−6.01
−6.02
−6.03
−6.04
−6.05
−6.06
pull
Entries 85
Mean 76.97
Std Dev 0
400
300
200
100
0
−100
−200
−300

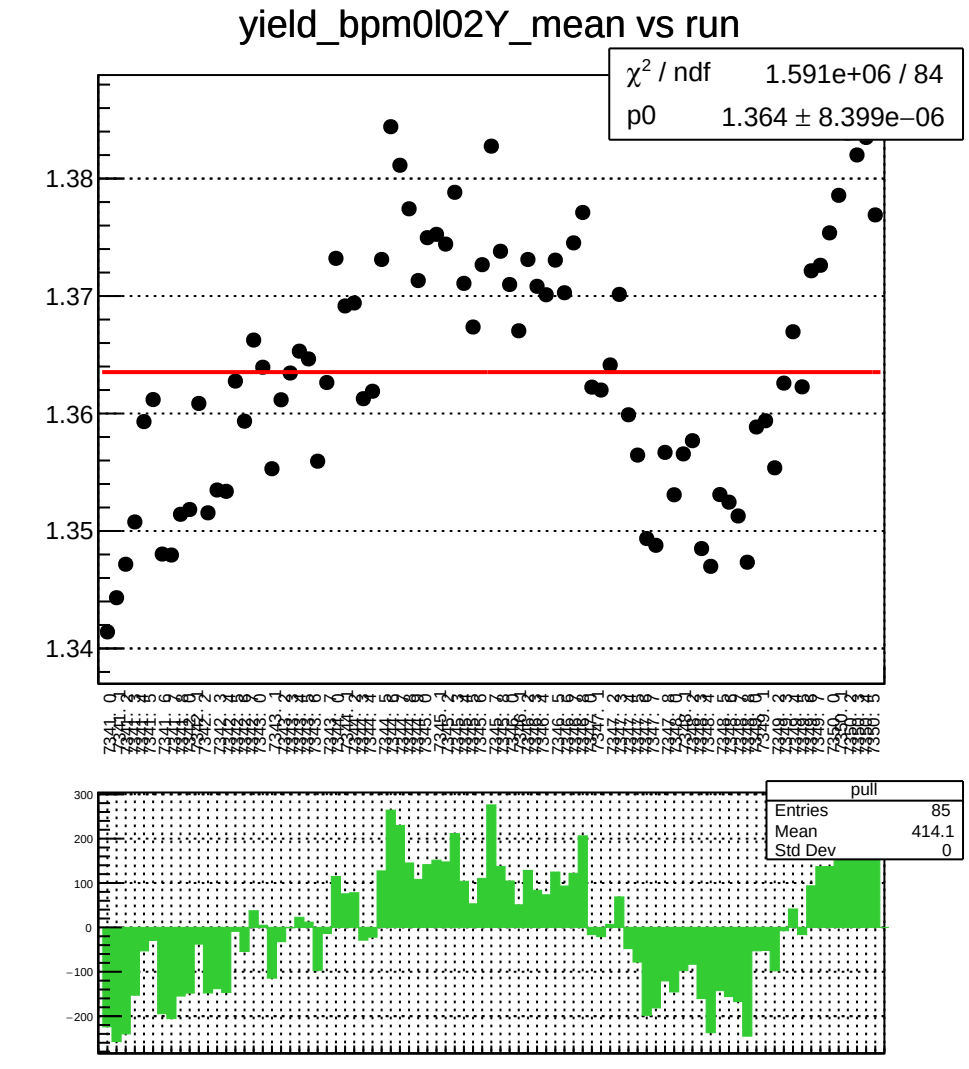

pull1D
Entries 85
Mean 1.041
Std Dev 5.108
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

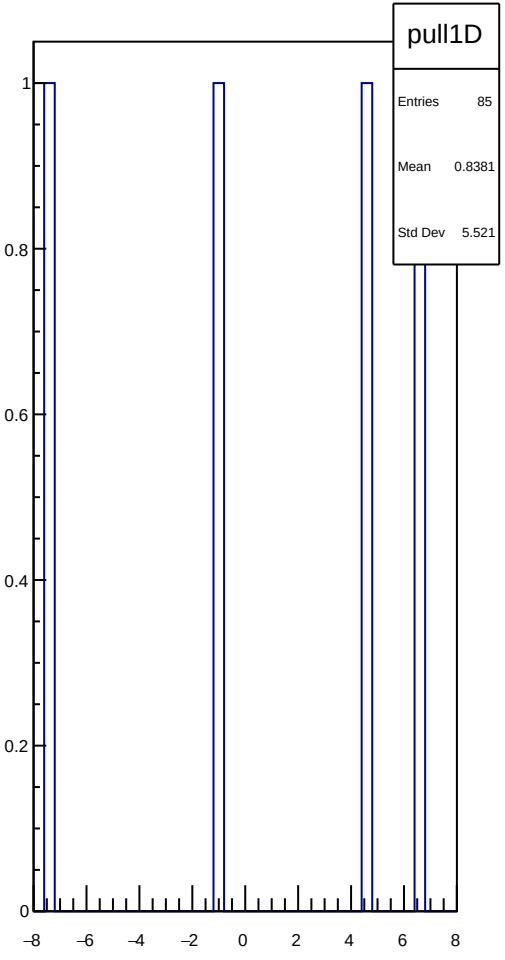

yield_bpm0l01Y_rms vs run
χ² / ndf 3.499e+04 / 84
p0 0.009378 ± 7.458e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

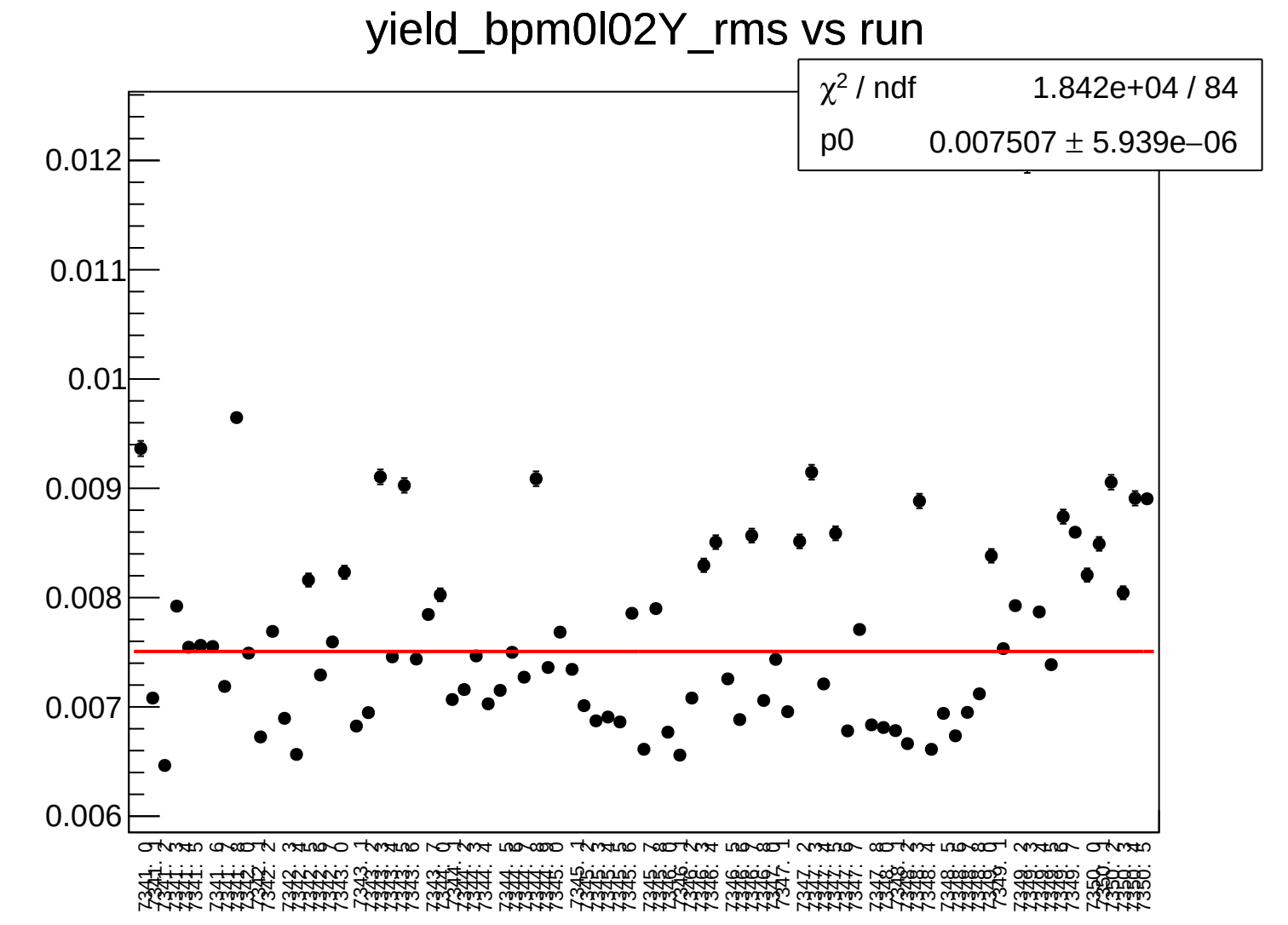

yield_bpm0l02X_mean vs run
χ² / ndf 1.822e+06 / 84
p0 −2.928 ± 2.087e−05
pull
Entries 85
Mean −1807
Std Dev 0

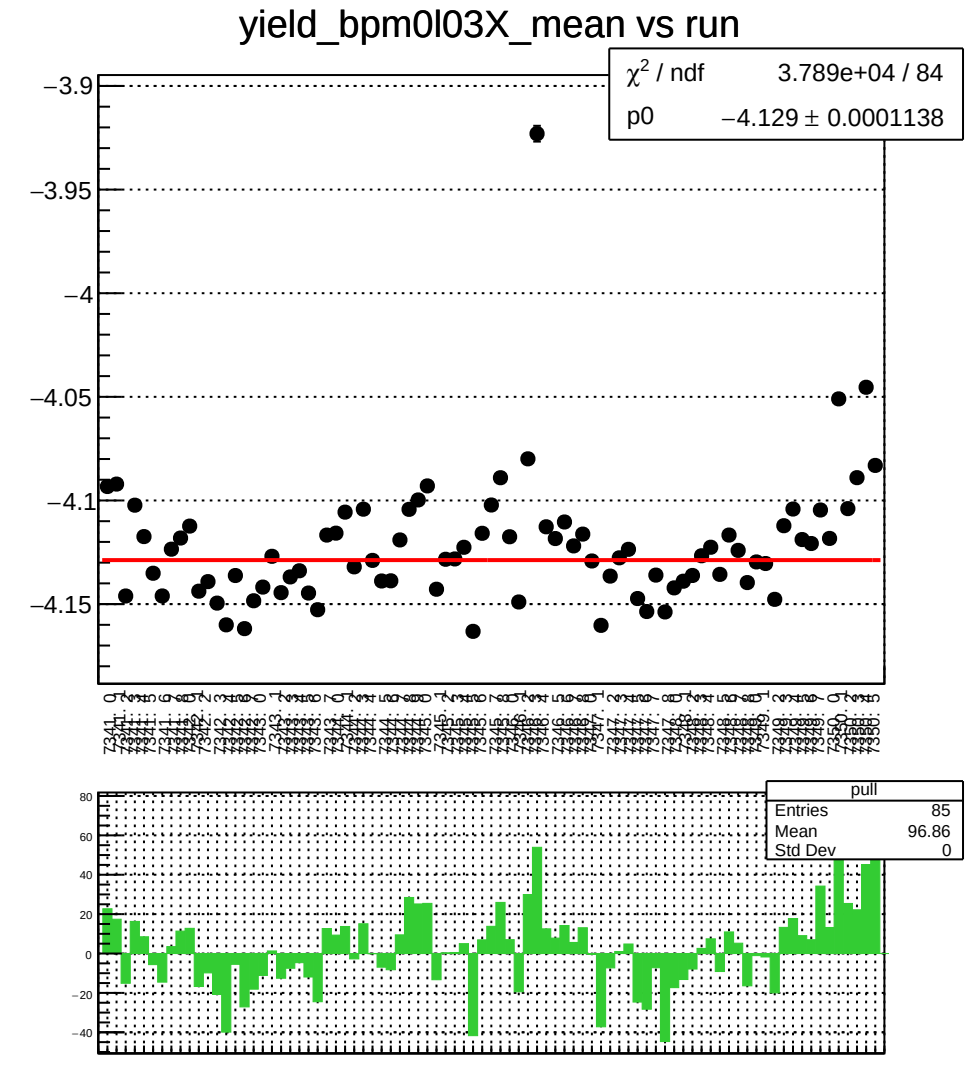

pull1D
Entries 85
Mean 2.125
Std Dev 4.934

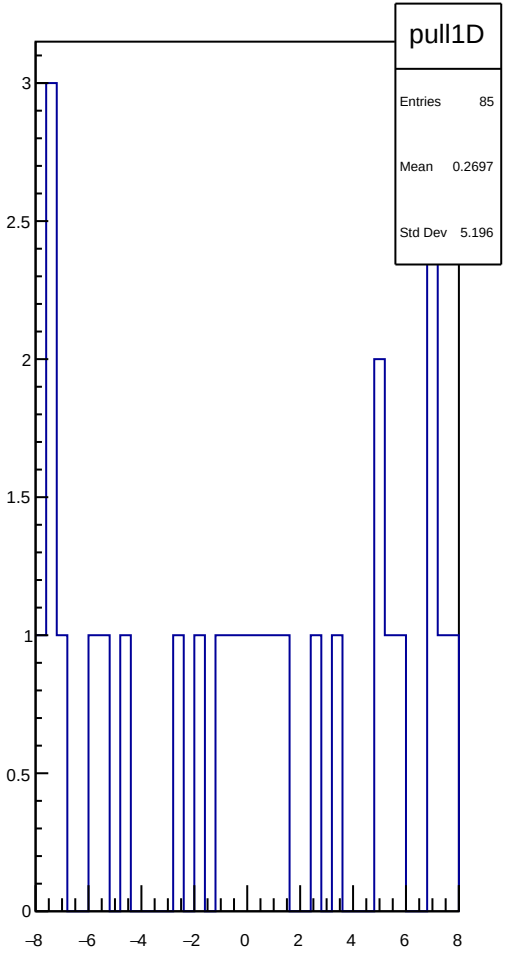

yield_bpm0l02X_rms vs run
χ² / ndf 2.198e+04 / 84
p0 0.01864 ± 1.476e−05
0.035
0.03
0.025
0.02
0.015

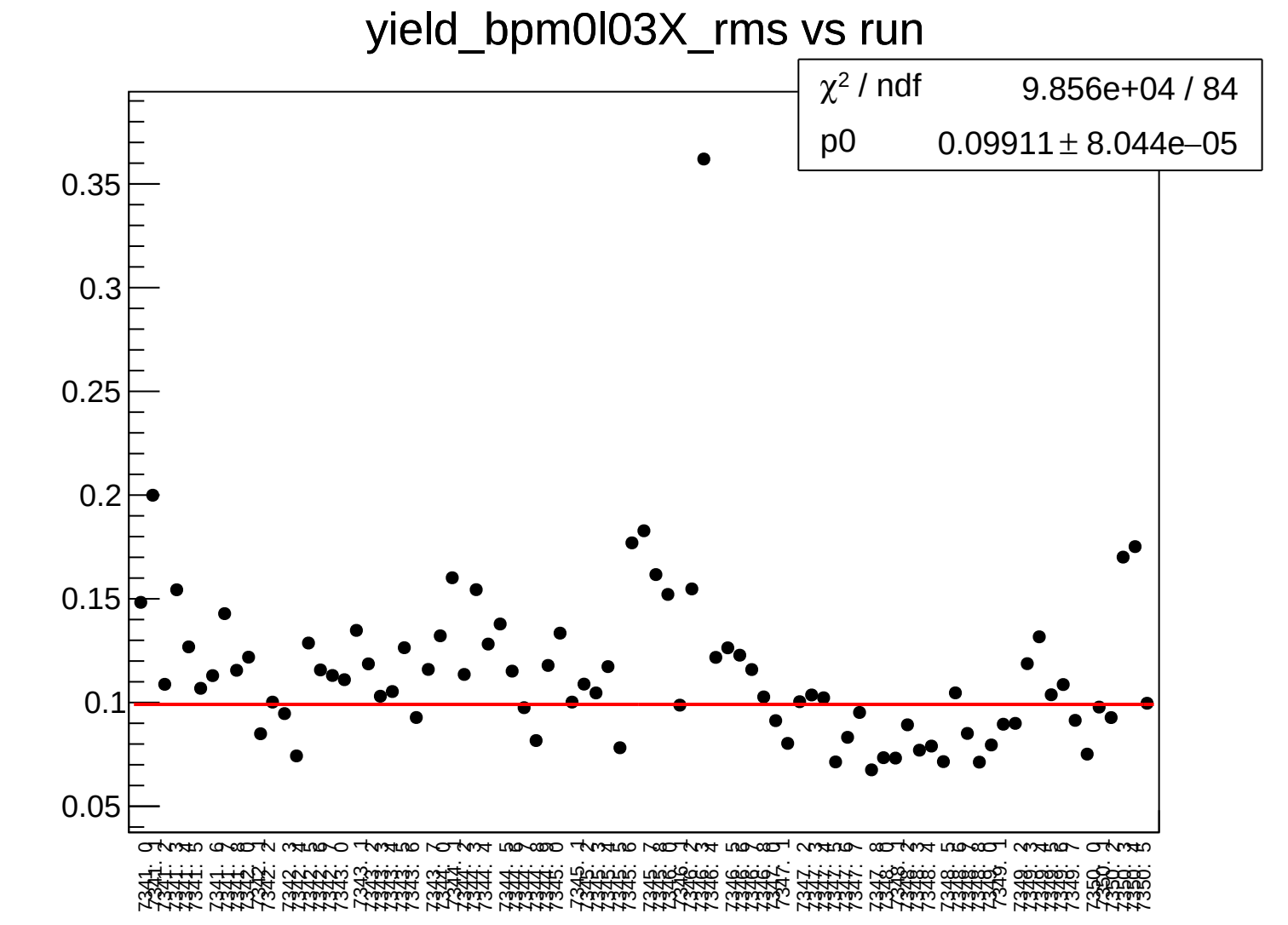

yield_bpm0l02Y_mean vs run
χ² / ndf 1.591e+06 / 84
p0 1.364 ± 8.399e−06
1.38
1.37
1.36
1.35
1.34
pull
Entries 85
Mean 414.1
Std Dev 0
300
200
100
0
−100
−200

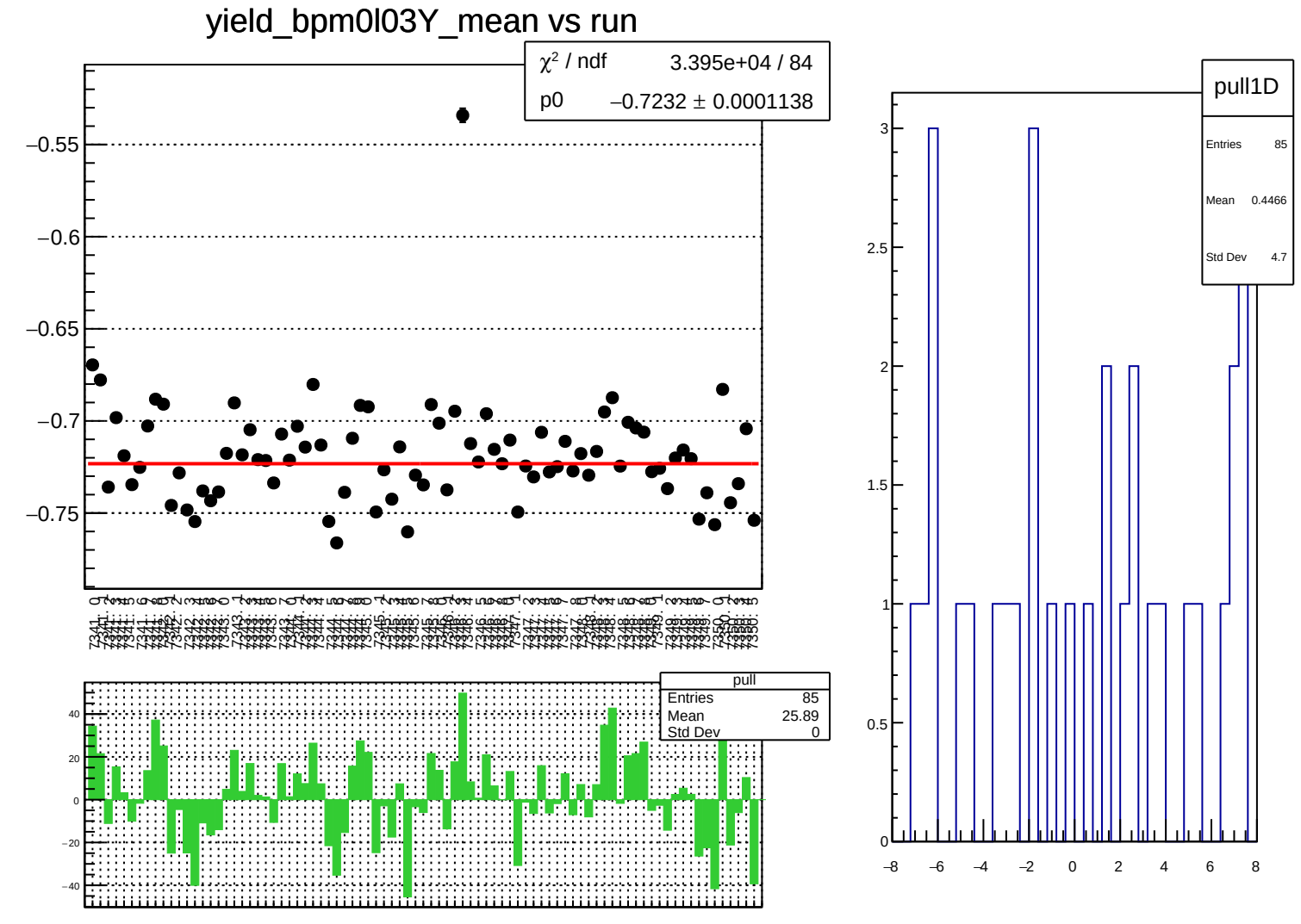

pull1D
Entries 85
Mean 0.8381
Std Dev 5.521
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

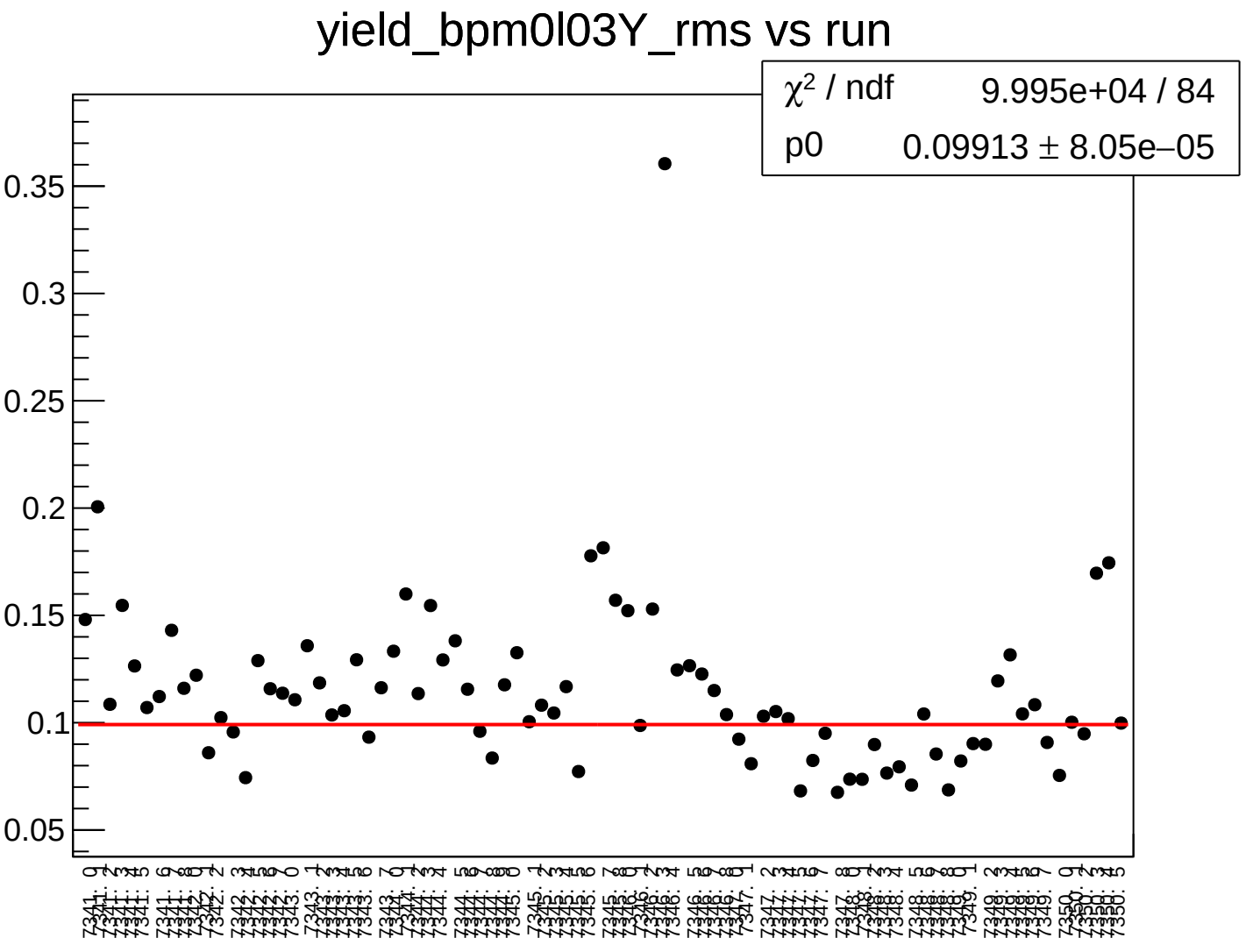

yield_bpm0l02Y_rms vs run
χ² / ndf 1.842e+04 / 84
p0 0.007507 ± 5.939e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

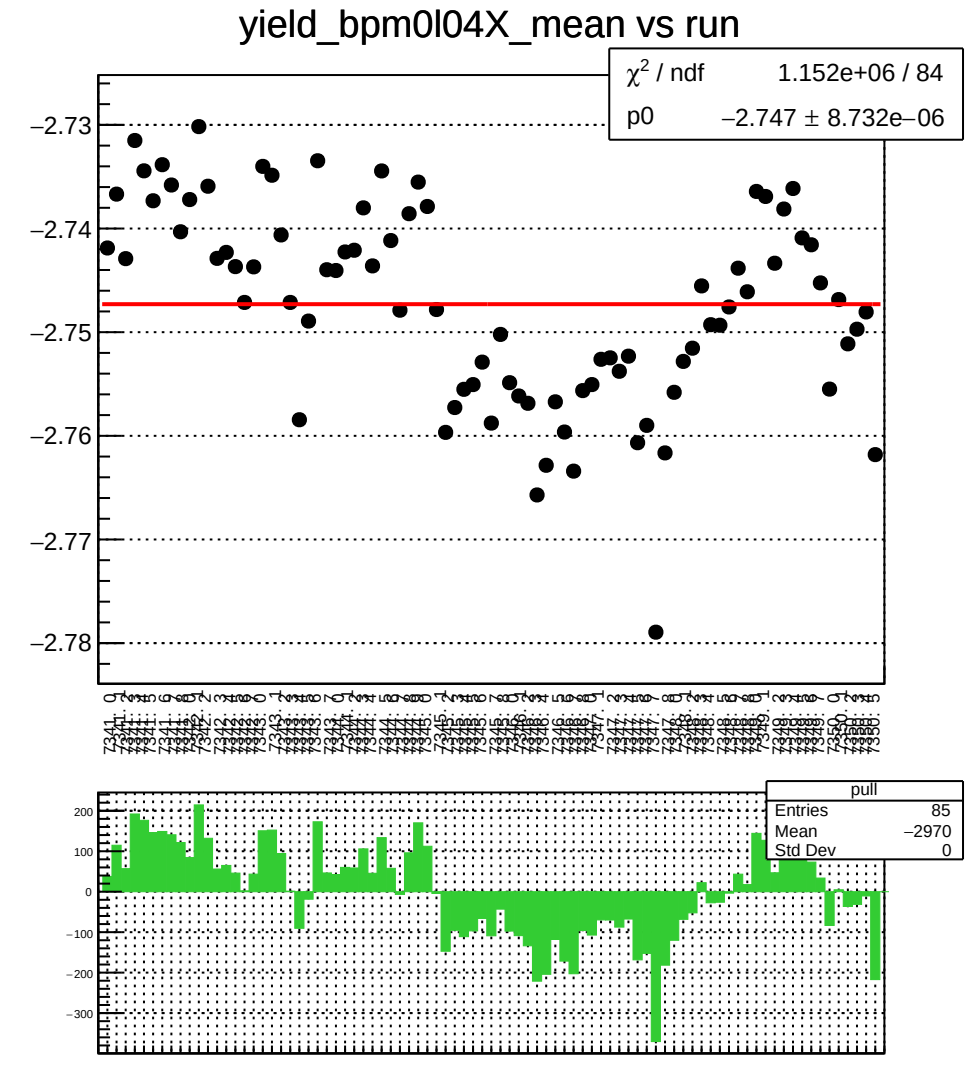

yield_bpm0l03X_mean vs run
χ² / ndf 3.789e+04 / 84
p0 −4.129 ± 0.0001138
−3.9
−3.95
−4
−4.05
−4.1
−4.15
pull
Entries 85
Mean 96.86
Std Dev 0
80
60
40
20
0
−20
−40

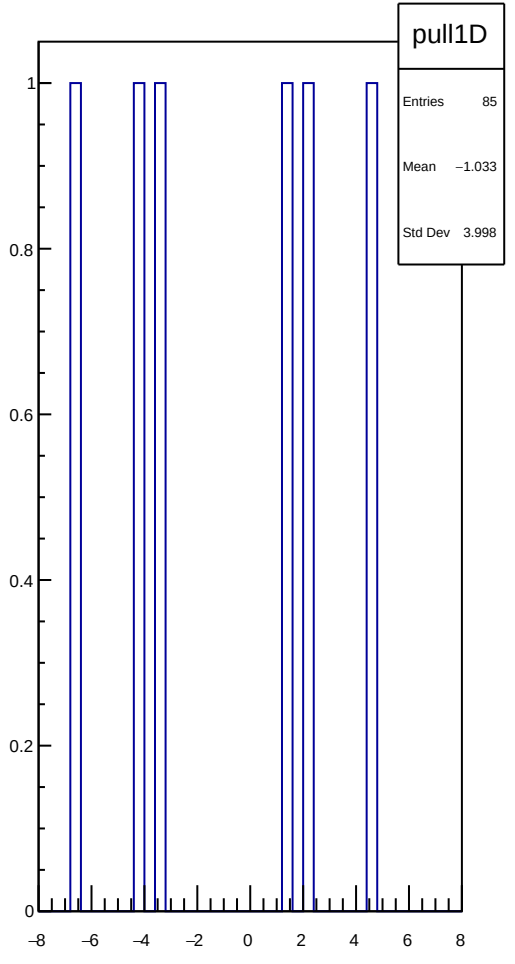

pull1D
Entries 85
Mean 0.2697
Std Dev 5.196
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

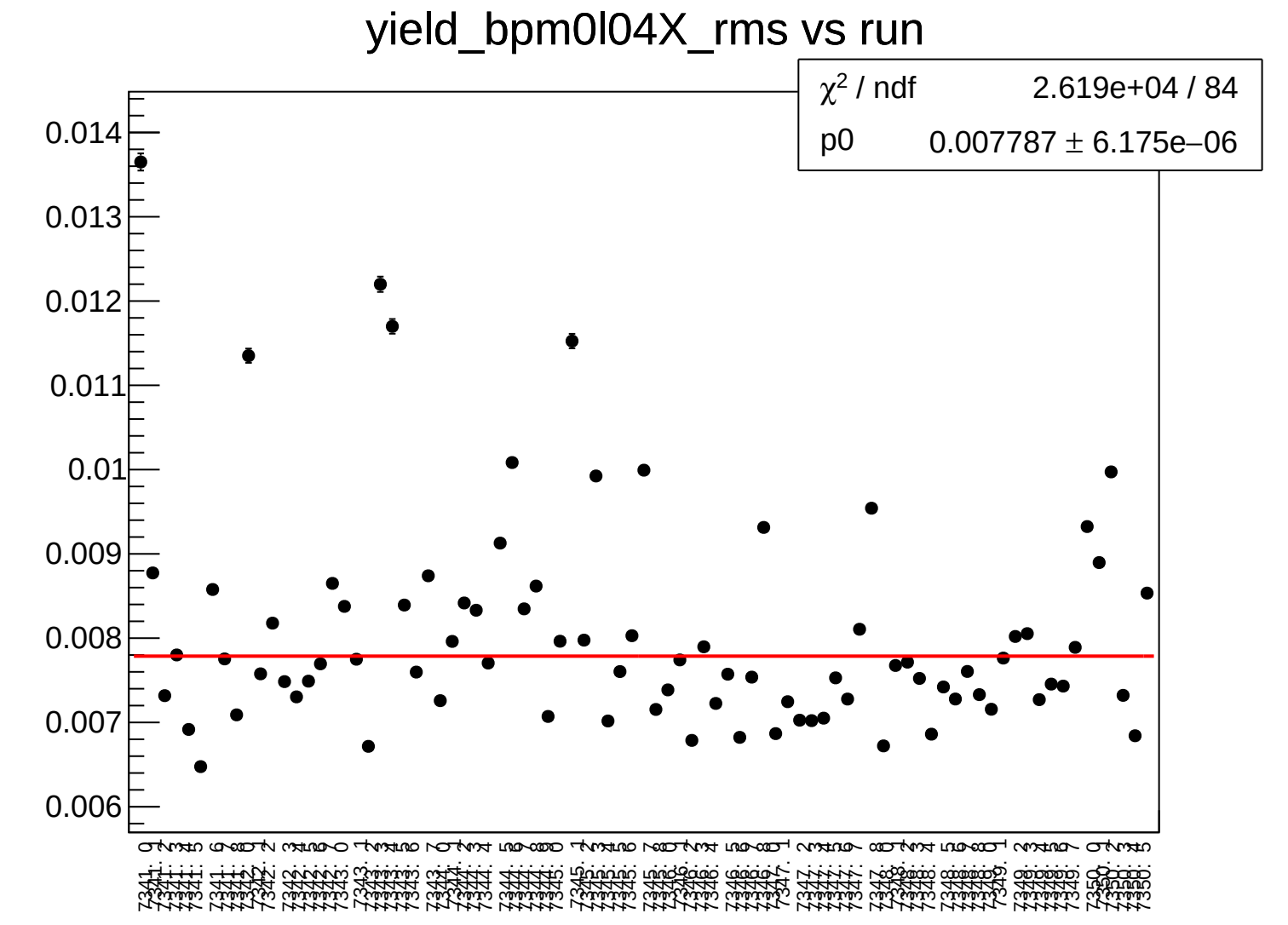

yield_bpm0l03X_rms vs run
χ^2 / ndf 9.856e+04 / 84
p0 0.09911 ± 8.044e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

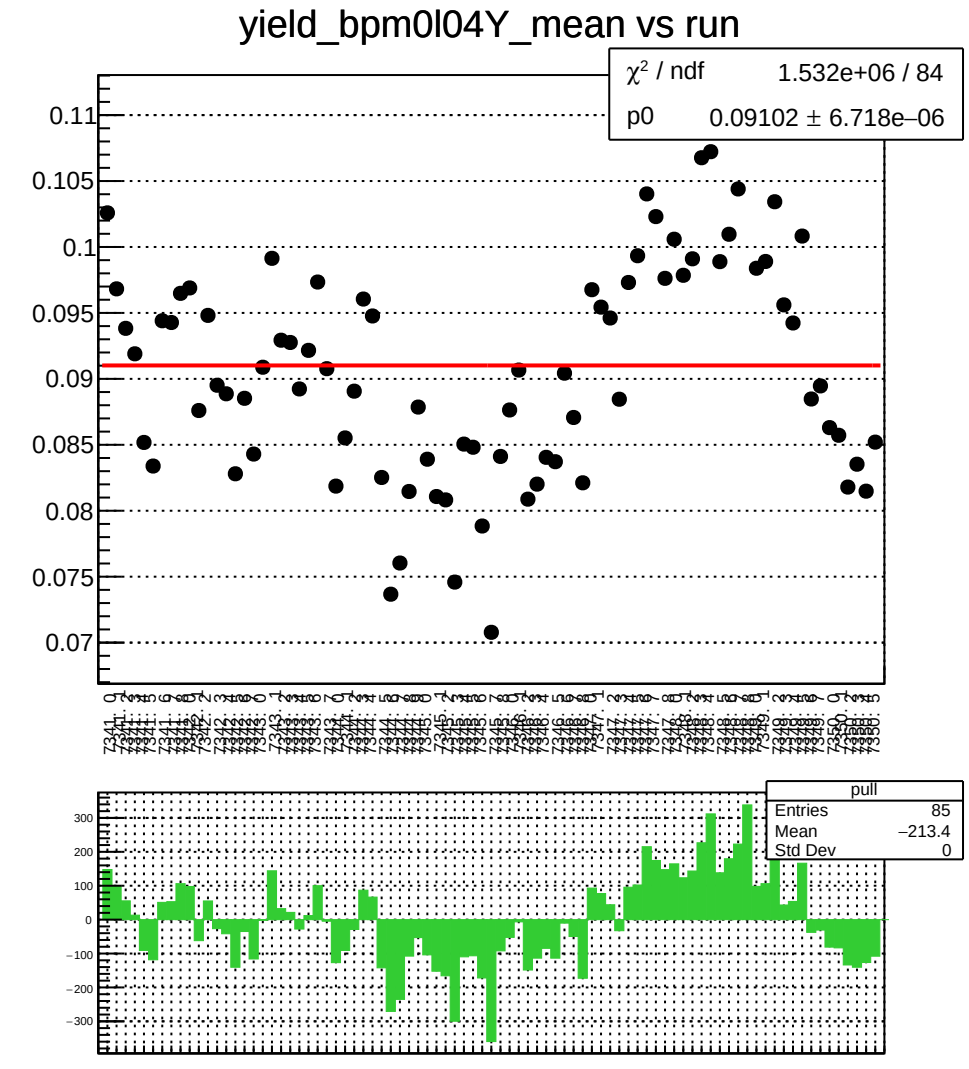

yield_bpm0l03Y_mean vs run
χ² / ndf 3.395e+04 / 84
p0 −0.7232 ± 0.0001138
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 85
Mean 25.89
Std Dev 0
40
20
0
−20
−40
pull1D
Entries 85
Mean 0.4466
Std Dev 4.7
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

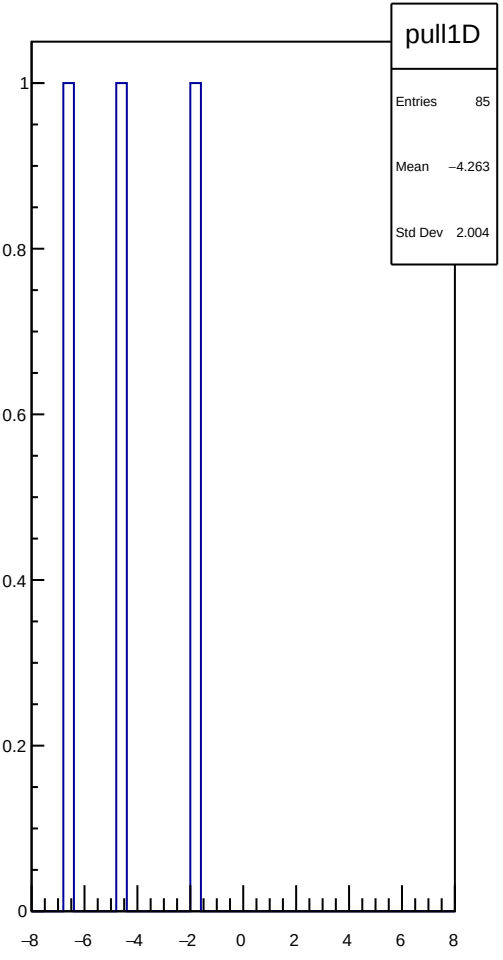

yield_bpm0l03Y_rms vs run
χ² / ndf 9.995e+04 / 84
p0 0.09913 ± 8.05e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

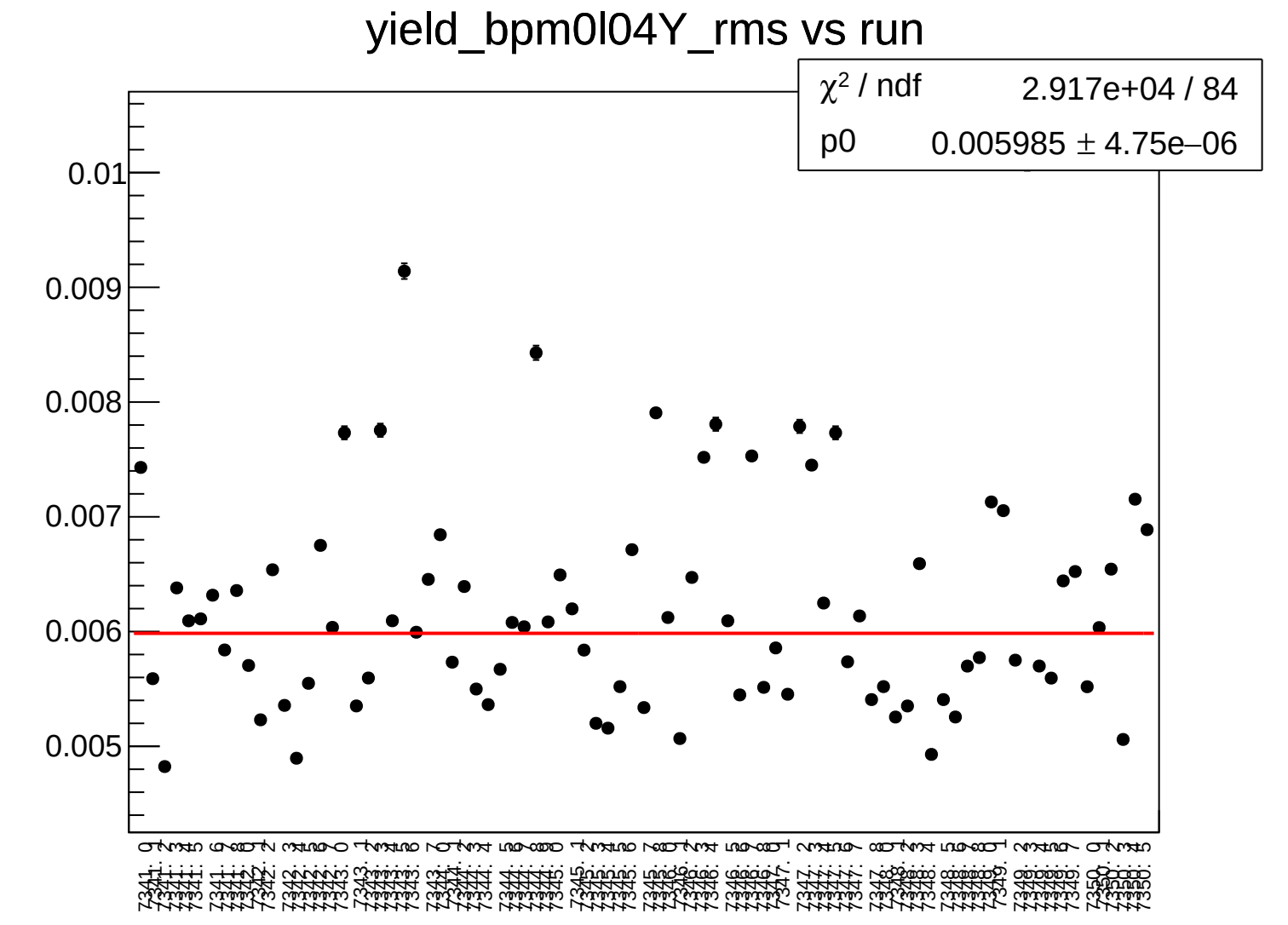

yield_bpm0l04X_mean vs run
χ² / ndf 1.152e+06 / 84
p0 −2.747 ± 8.732e−06
−2.73
−2.74
−2.75
−2.76
−2.77
−2.78
pull
Entries 85
Mean −2970
Std Dev 0
200
100
0
−100
−200
−300

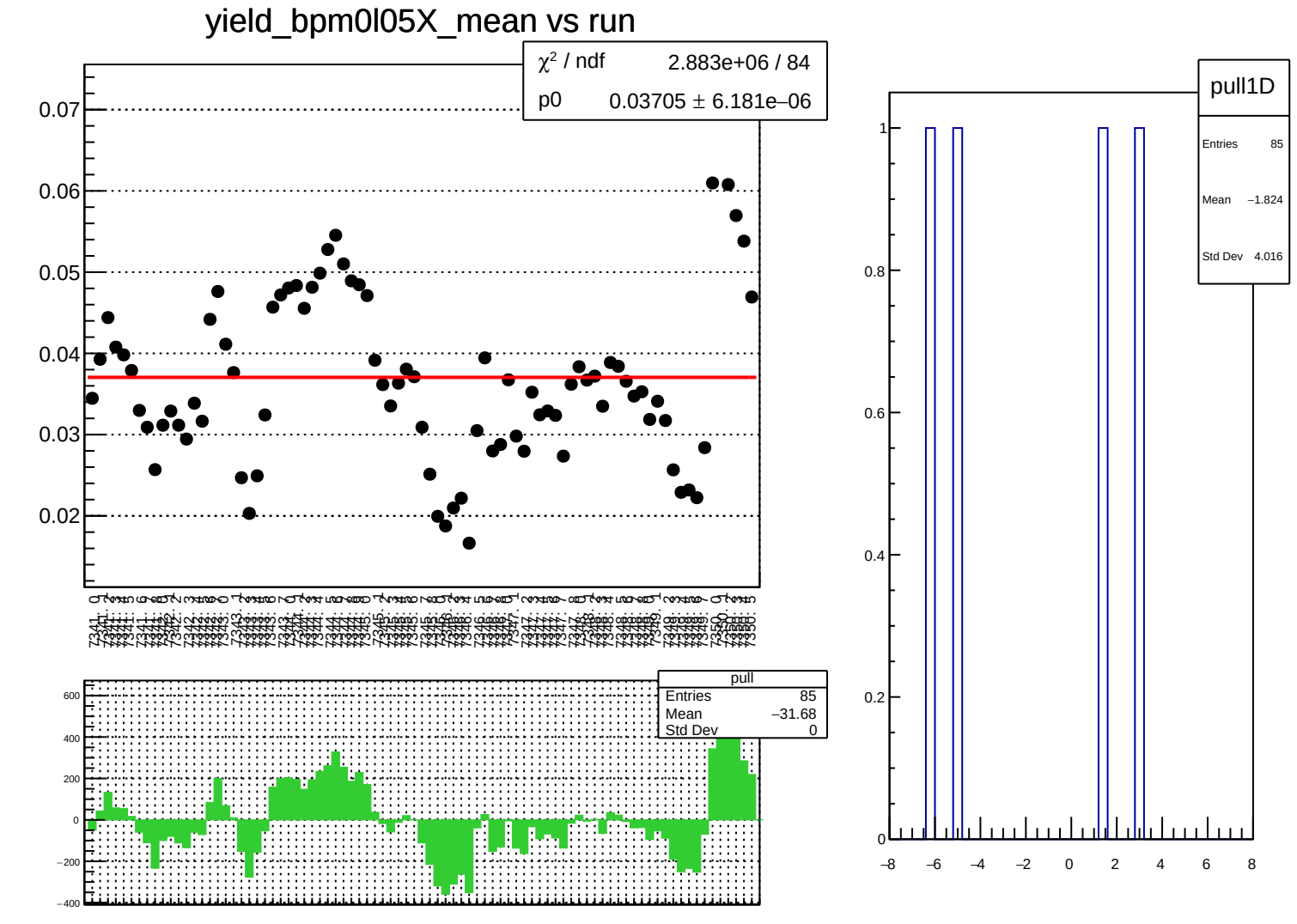

pull1D
Entries 85
Mean −1.033
Std Dev 3.998
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

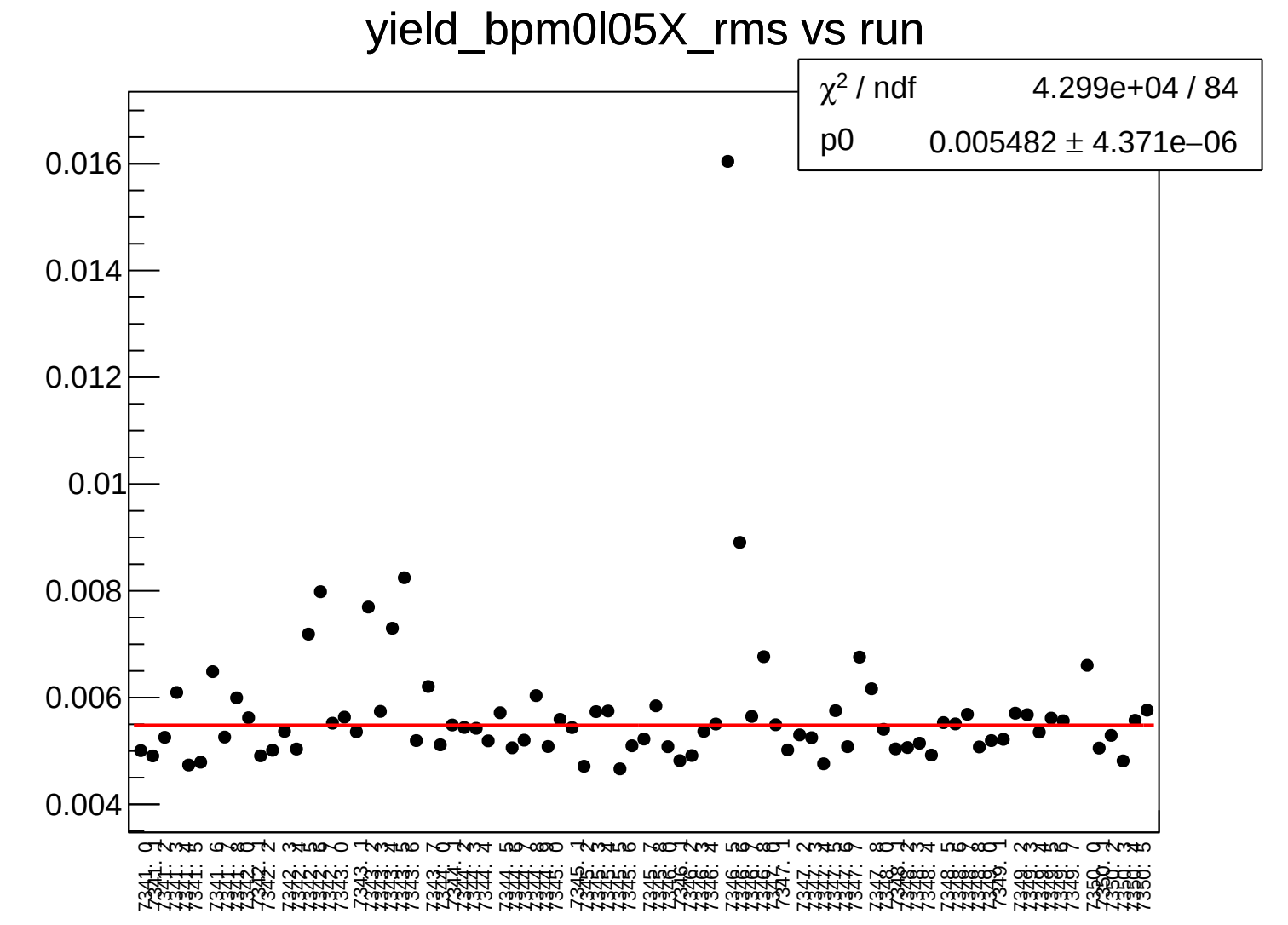

yield_bpm0l04X_rms vs run
χ² / ndf 2.619e+04 / 84
p0 0.007787 ± 6.175e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

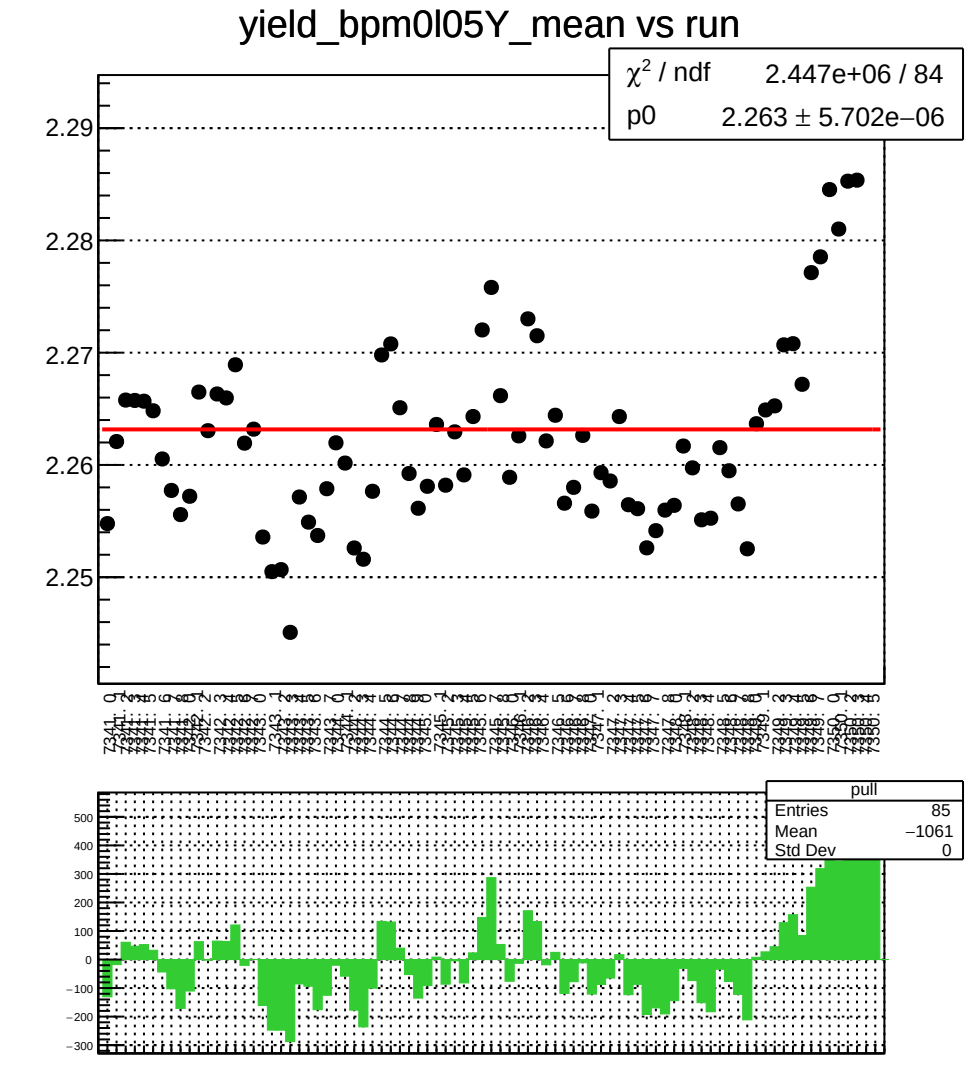

yield_bpm0l04Y_mean vs run
χ² / ndf 1.532e+06 / 84
p0 0.09102 ± 6.718e−06
pull
Entries 85
Mean −213.4
Std Dev 0

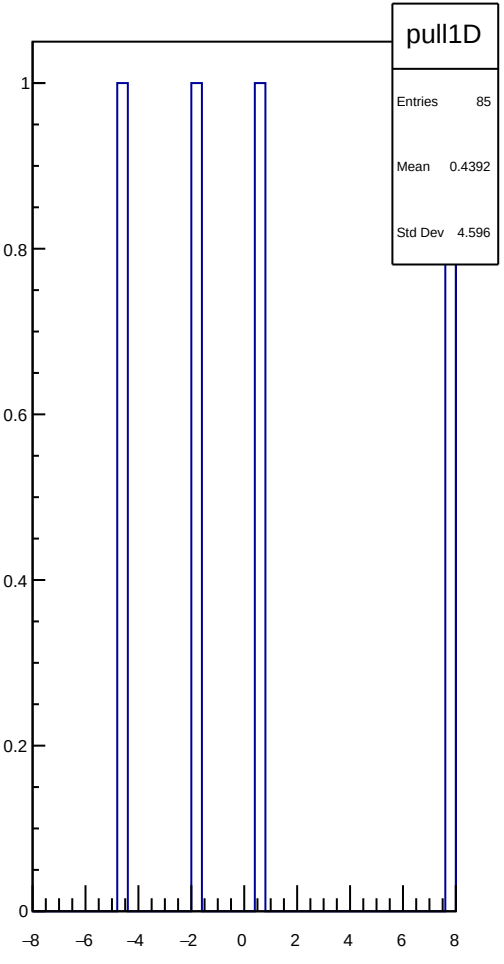

pull1D
Entries 85
Mean −4.263
Std Dev 2.004

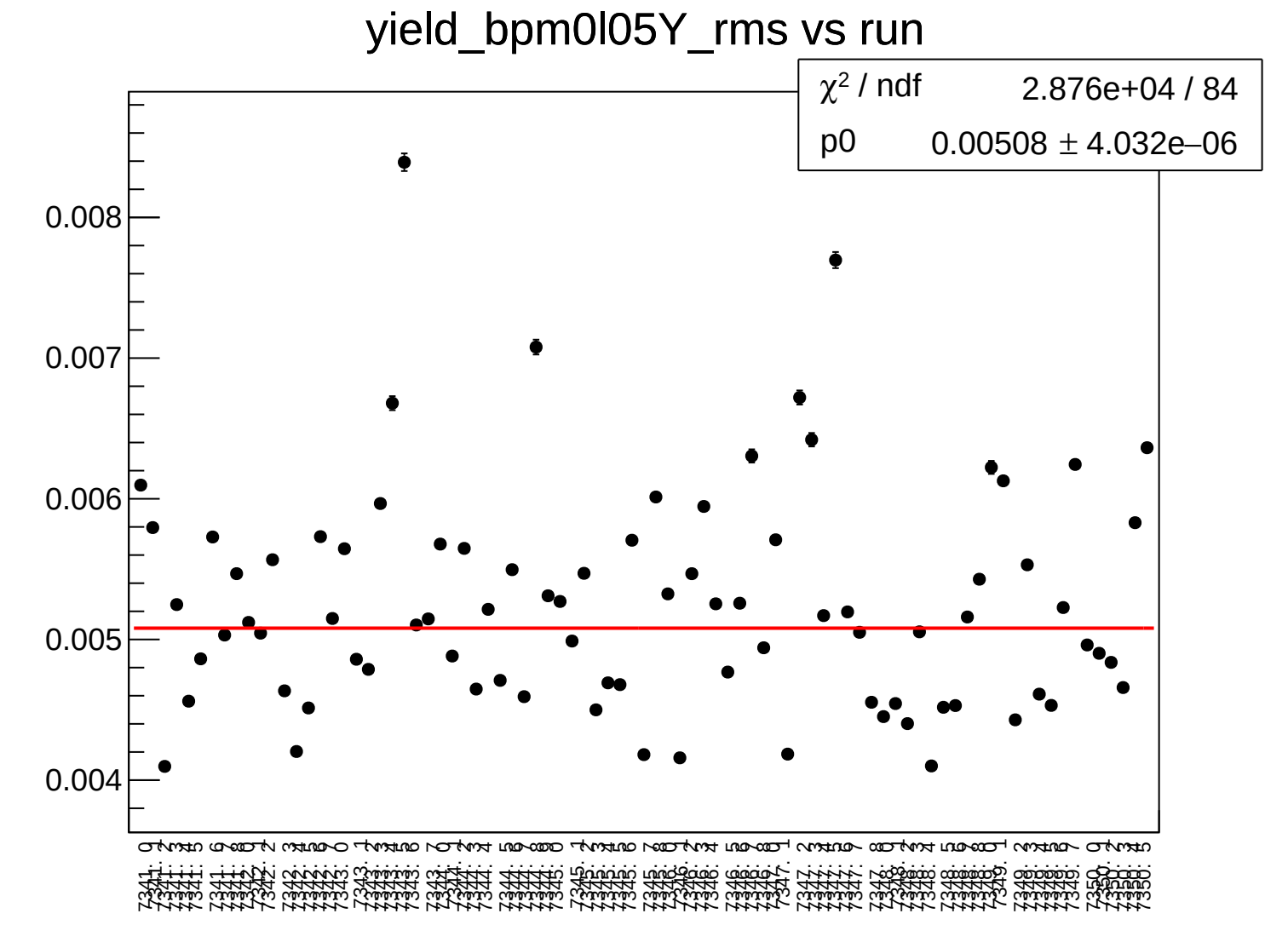

yield_bpm0l04Y_rms vs run
χ² / ndf 2.917e+04 / 84
p0 0.005985 ± 4.75e−06
0.01
0.009
0.008
0.007
0.006
0.005

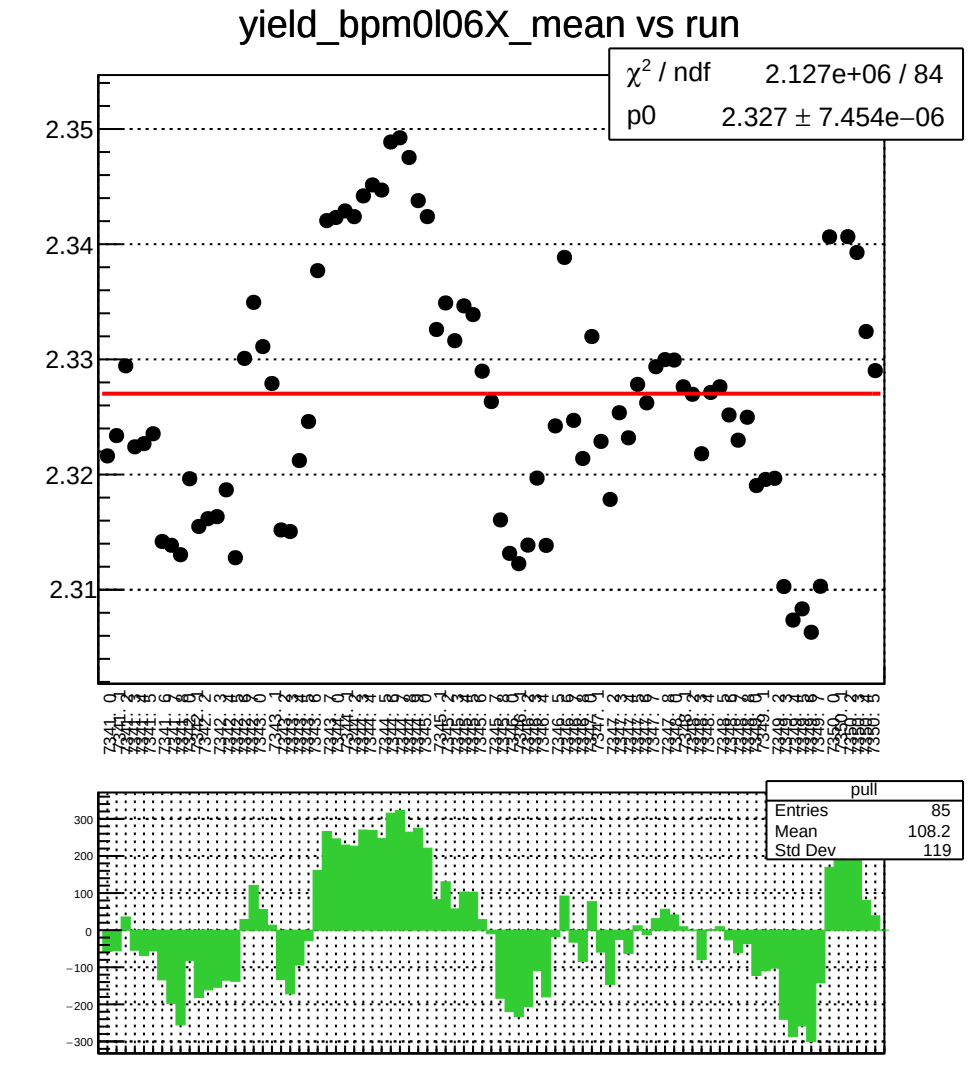

yield_bpm0l05X_mean vs run
χ² / ndf 2.883e+06 / 84
p0 0.03705 ± 6.181e−06
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 85
Mean −31.68
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 85
Mean −1.824
Std Dev 4.016
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

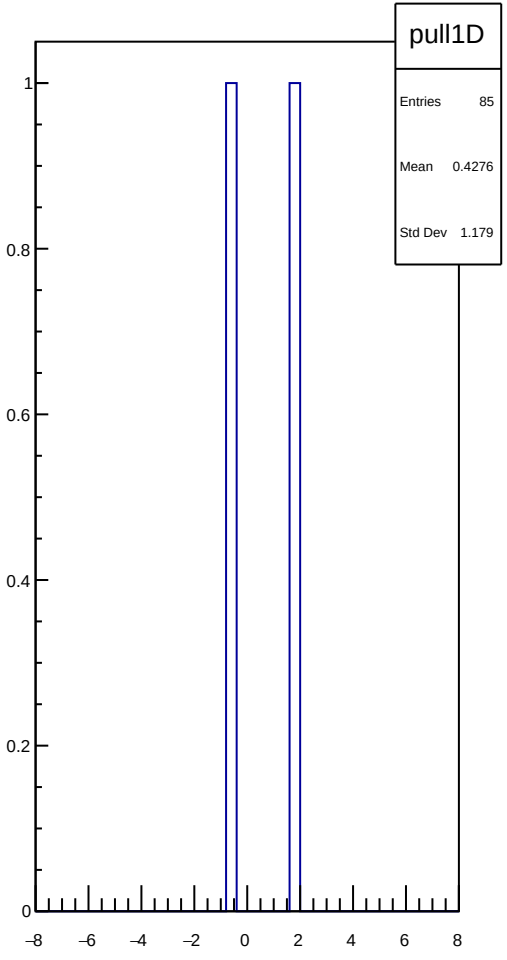

yield_bpm0l05X_rms vs run
χ^2 / ndf 4.299e+04 / 84
p0 0.005482 ± 4.371e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004


yield_bpm0l05Y_mean vs run
χ² / ndf 2.447e+06 / 84
p0 2.263 ± 5.702e−06
2.29
2.28
2.27
2.26
2.25
pull
Entries 85
Mean −1061
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

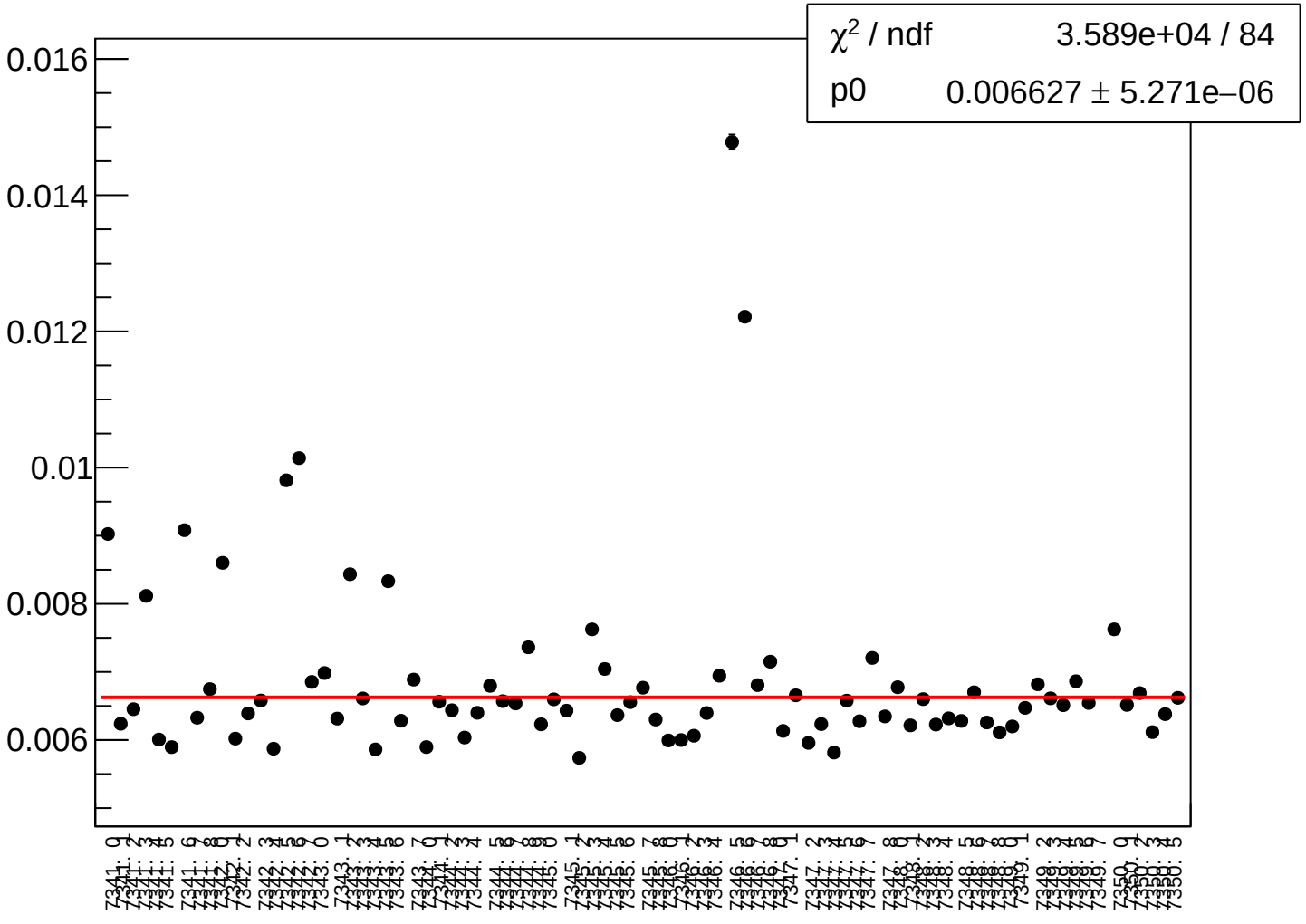

pull1D
Entries 85
Mean 0.4392
Std Dev 4.596
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

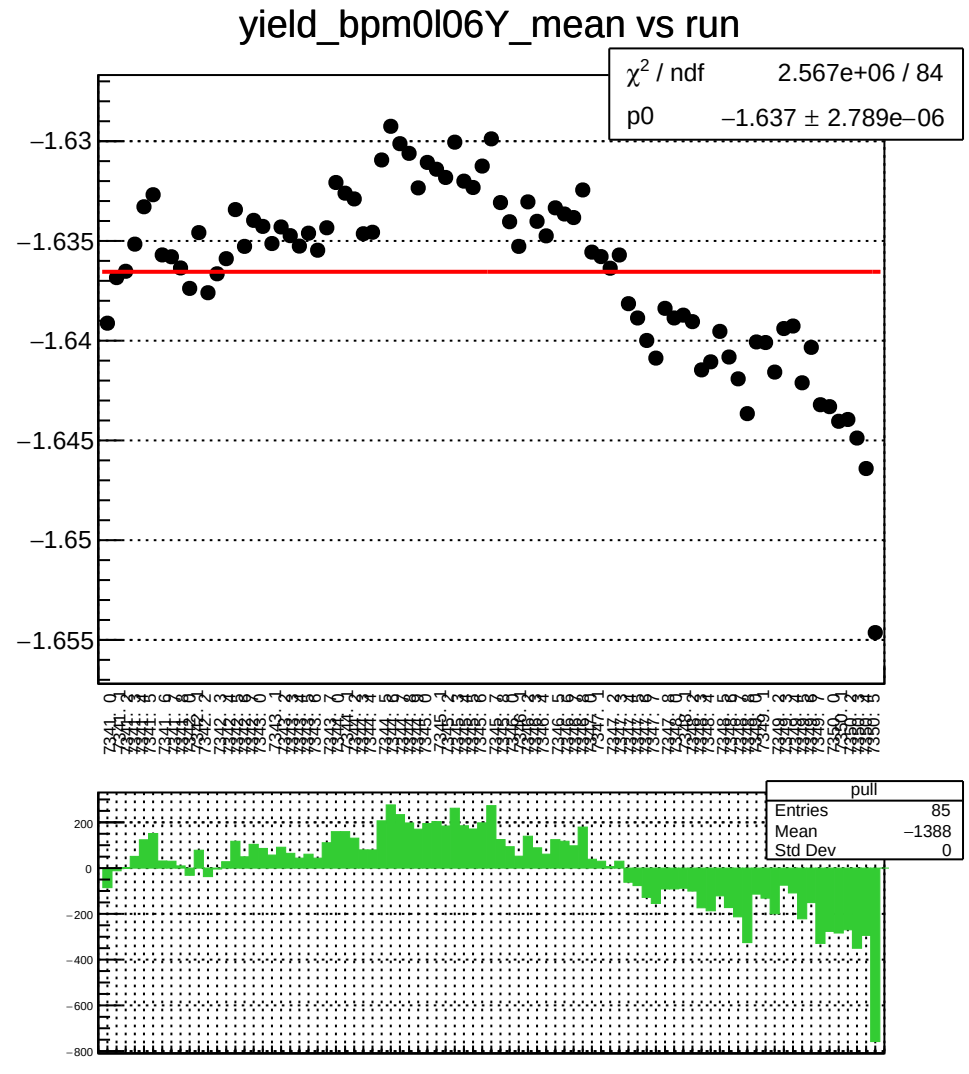

yield_bpm0l05Y_rms vs run
χ² / ndf 2.876e+04 / 84
p0 0.00508 ± 4.032e–06
0.008
0.007
0.006
0.005
0.004

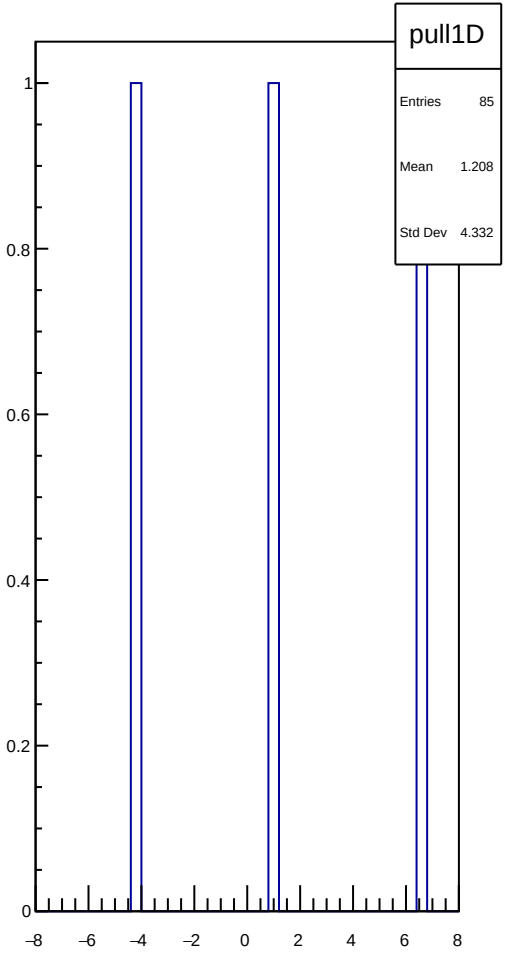

yield_bpm0l06X_mean vs run
χ² / ndf 2.127e+06 / 84
p0 2.327 ± 7.454e−06
2.35
2.34
2.33
2.32
2.31
pull
Entries 85
Mean 108.2
Std Dev 119
300
200
100
0
−100
−200
−300

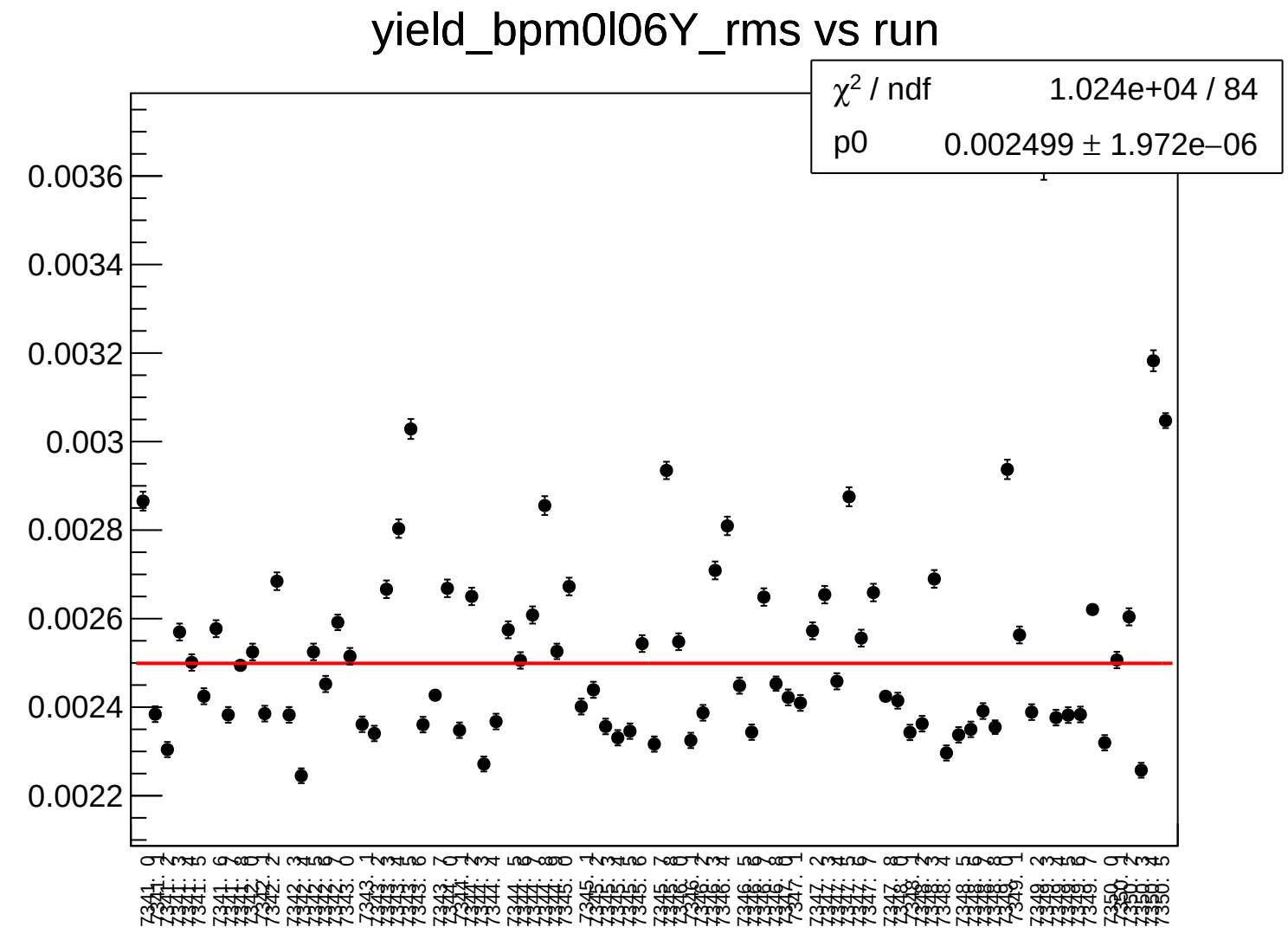

pull1D
Entries 85
Mean 0.4276
Std Dev 1.179
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

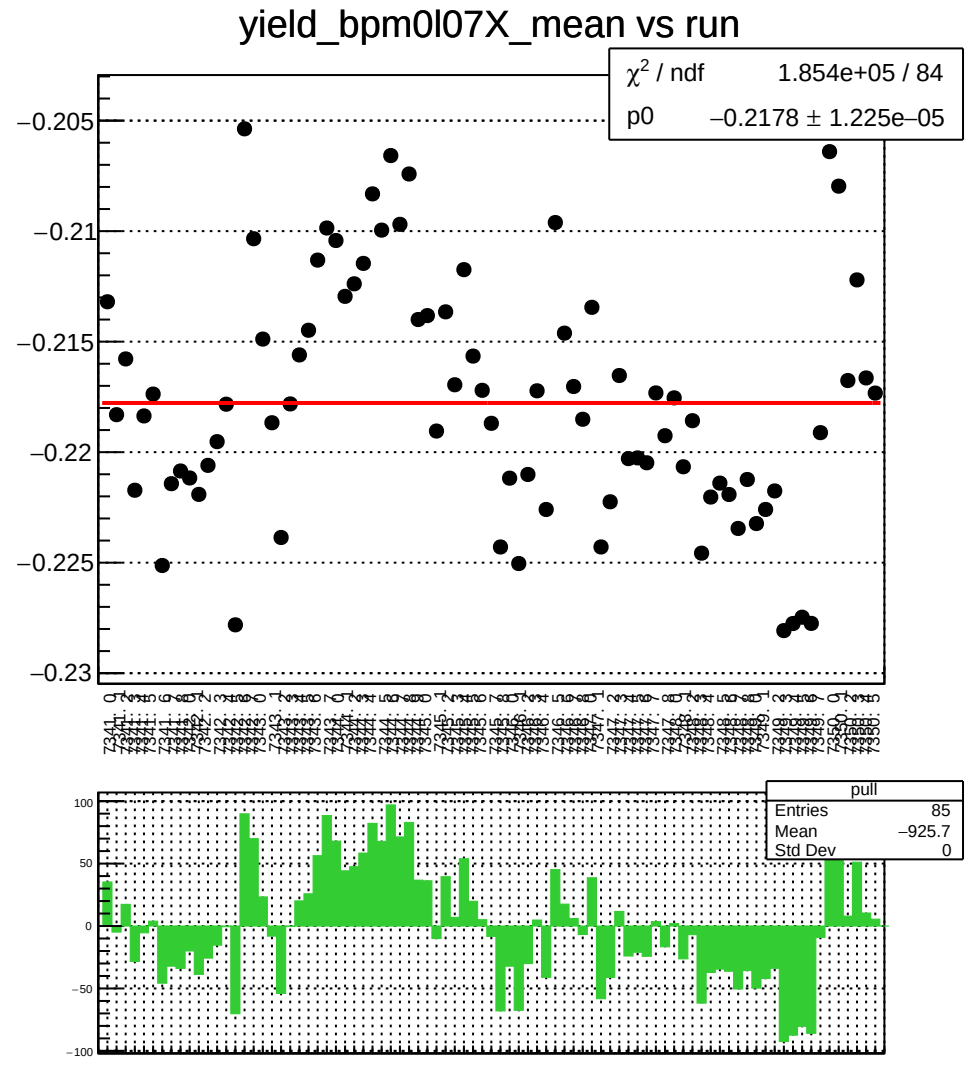
yield_bpm0l06X_rms vs run

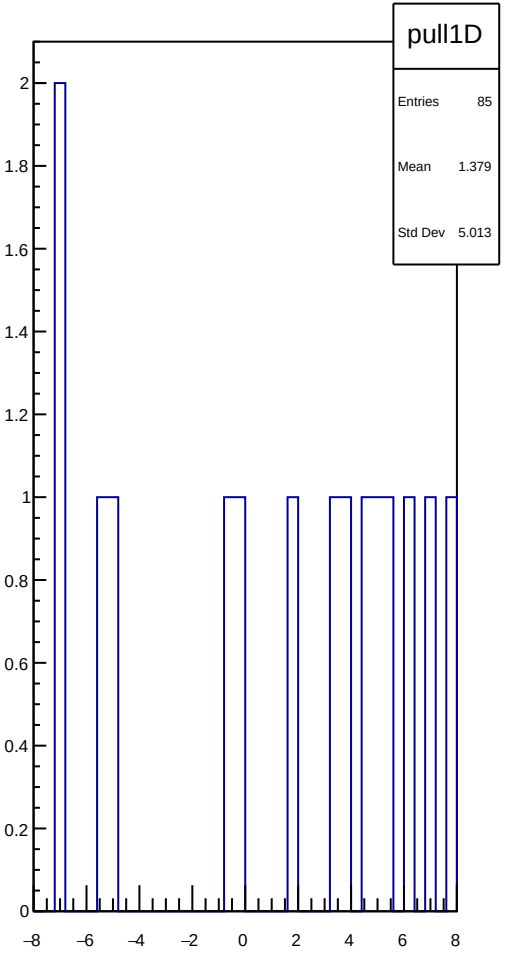


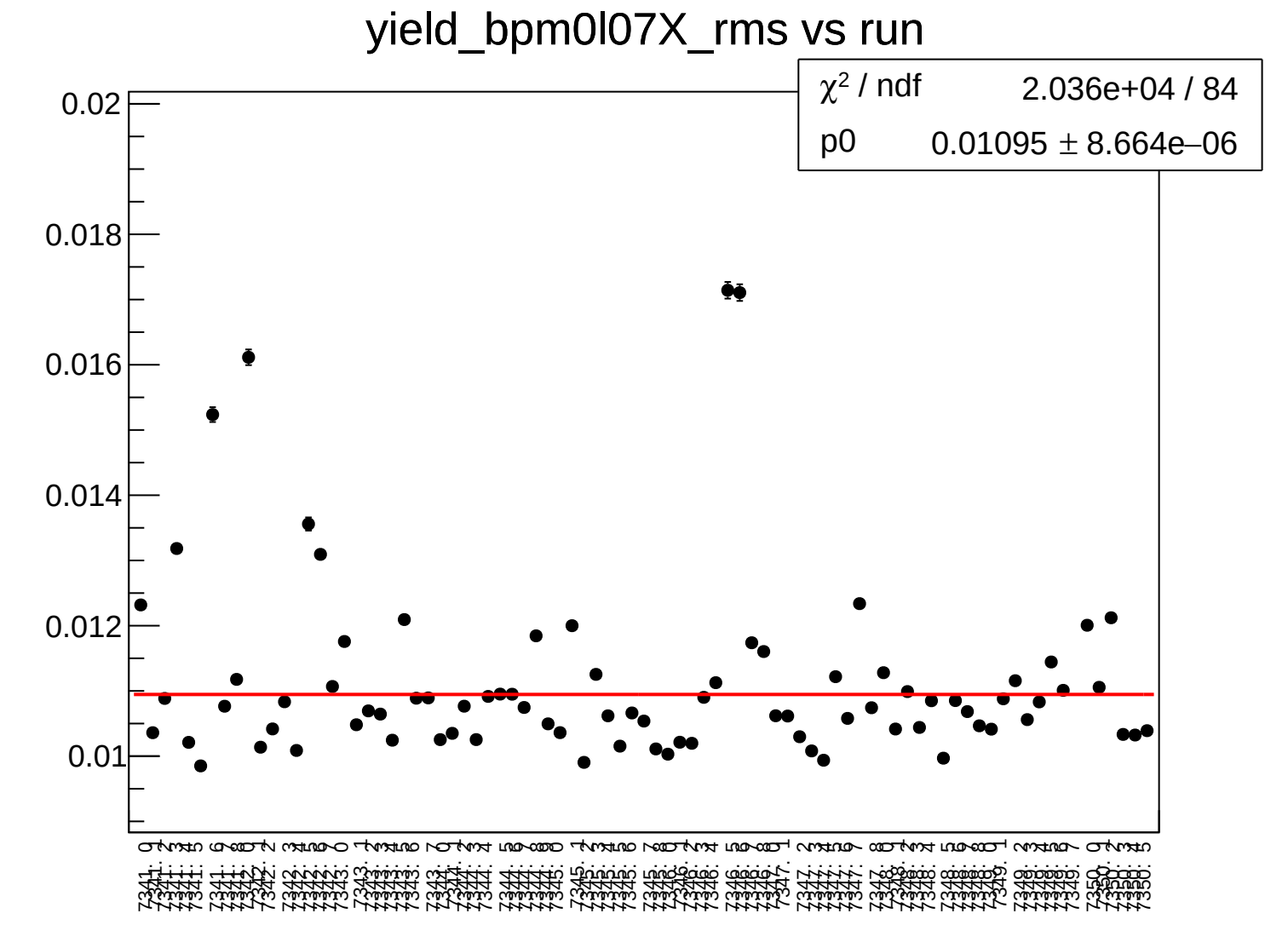

yield_bpm0l06Y_mean vs run
χ² / ndf 2.567e+06 / 84
p0 −1.637 ± 2.789e−06
−1.63
−1.635
−1.64
−1.645
−1.65
−1.655
pull
Entries 85
Mean −1388
Std Dev 0
200
0
−200
−400
−600
−800

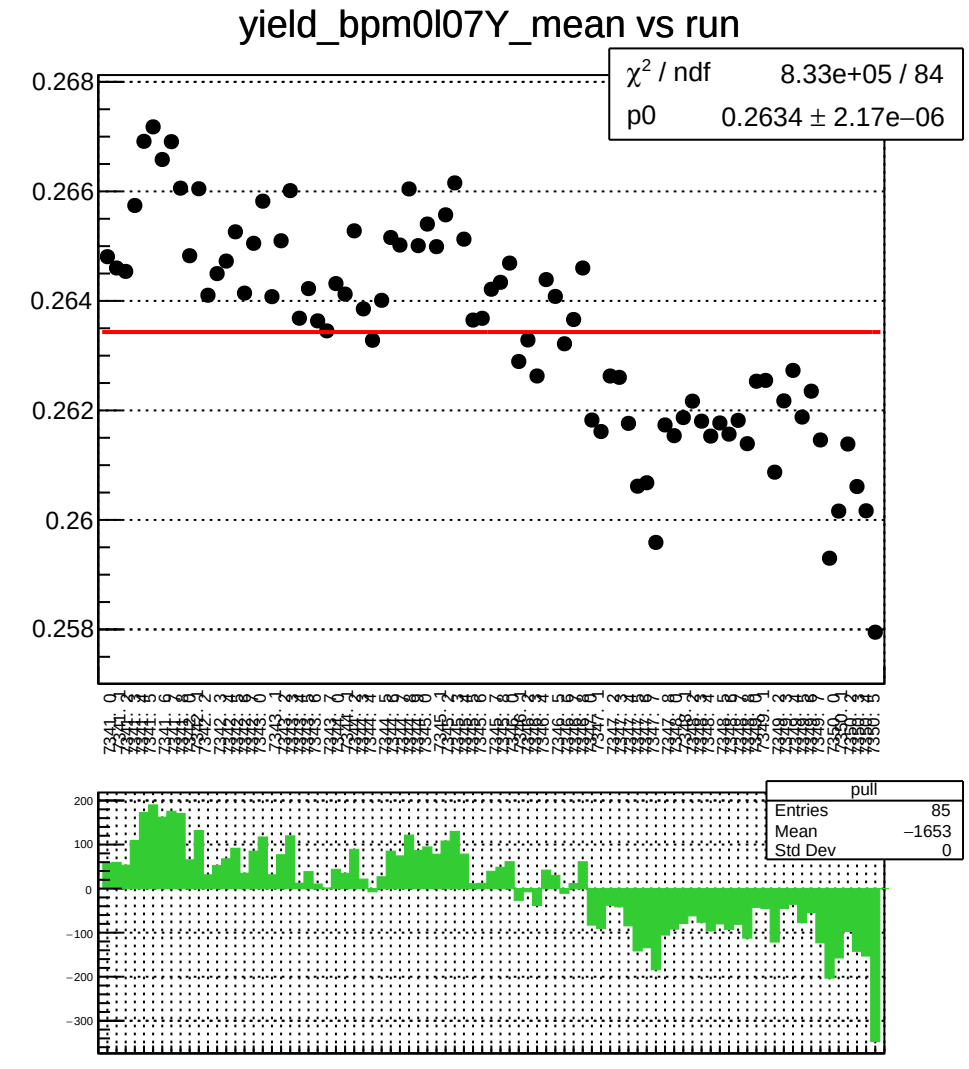

pull1D
Entries 85
Mean 1.208
Std Dev 4.332
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

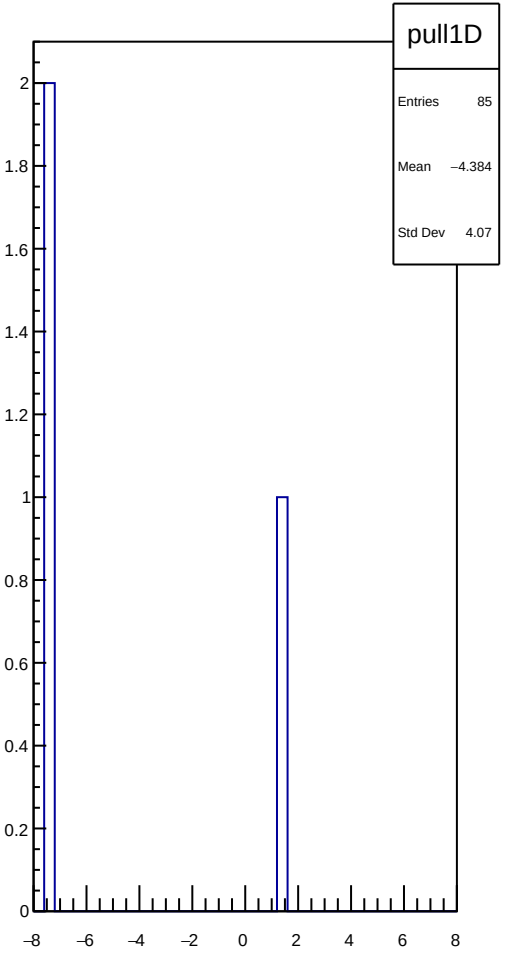

yield_bpm0l06Y_rms vs run
χ² / ndf 1.024e+04 / 84
p0 0.002499 ± 1.972e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

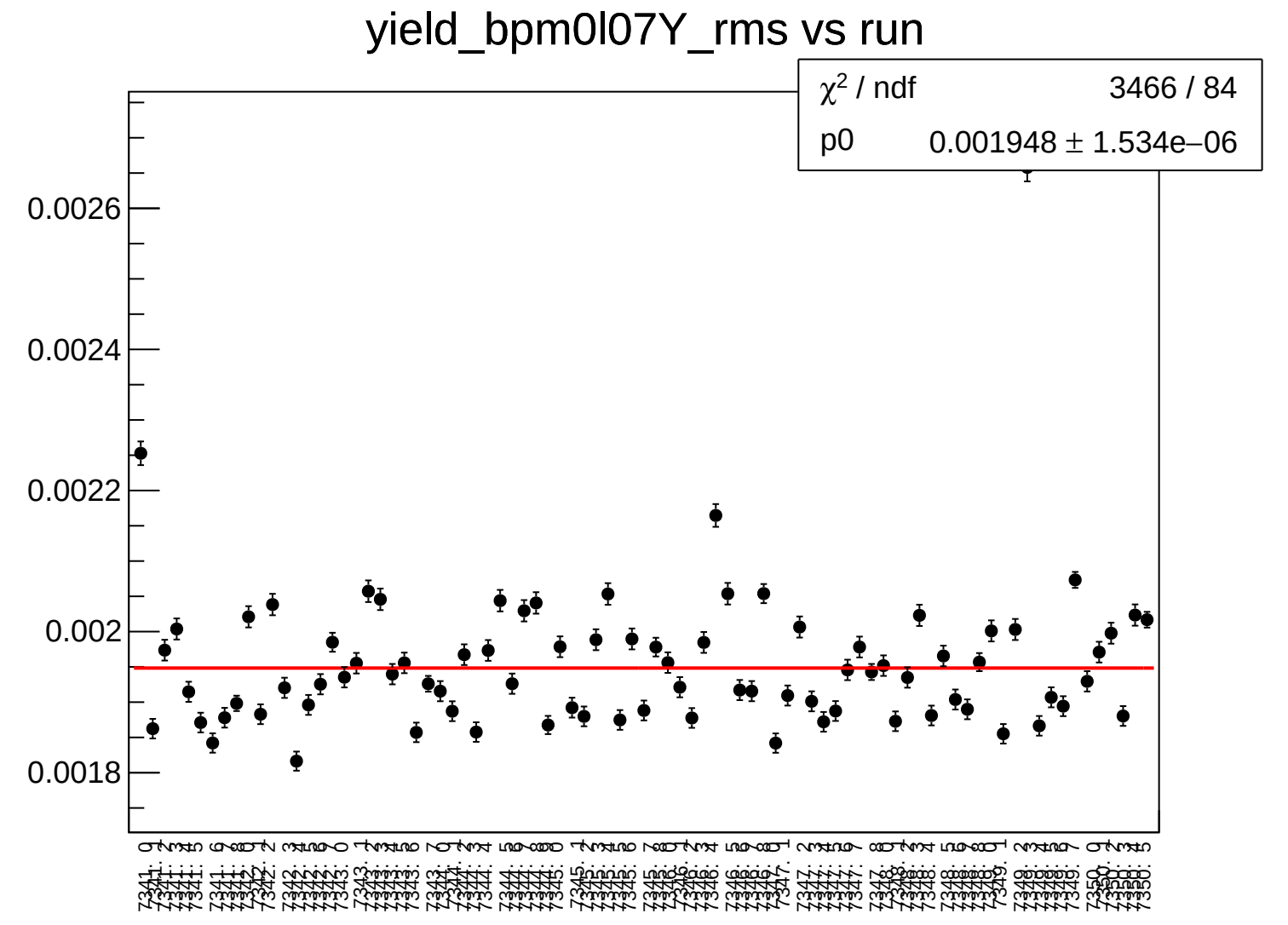

yield_bpm0l07X_mean vs run
χ² / ndf 1.854e+05 / 84
p0 −0.2178 ± 1.225e−05
−0.205
−0.21
−0.215
−0.22
−0.225
−0.23
pull
Entries 85
Mean −925.7
Std Dev 0
100
50
0
−50
−100

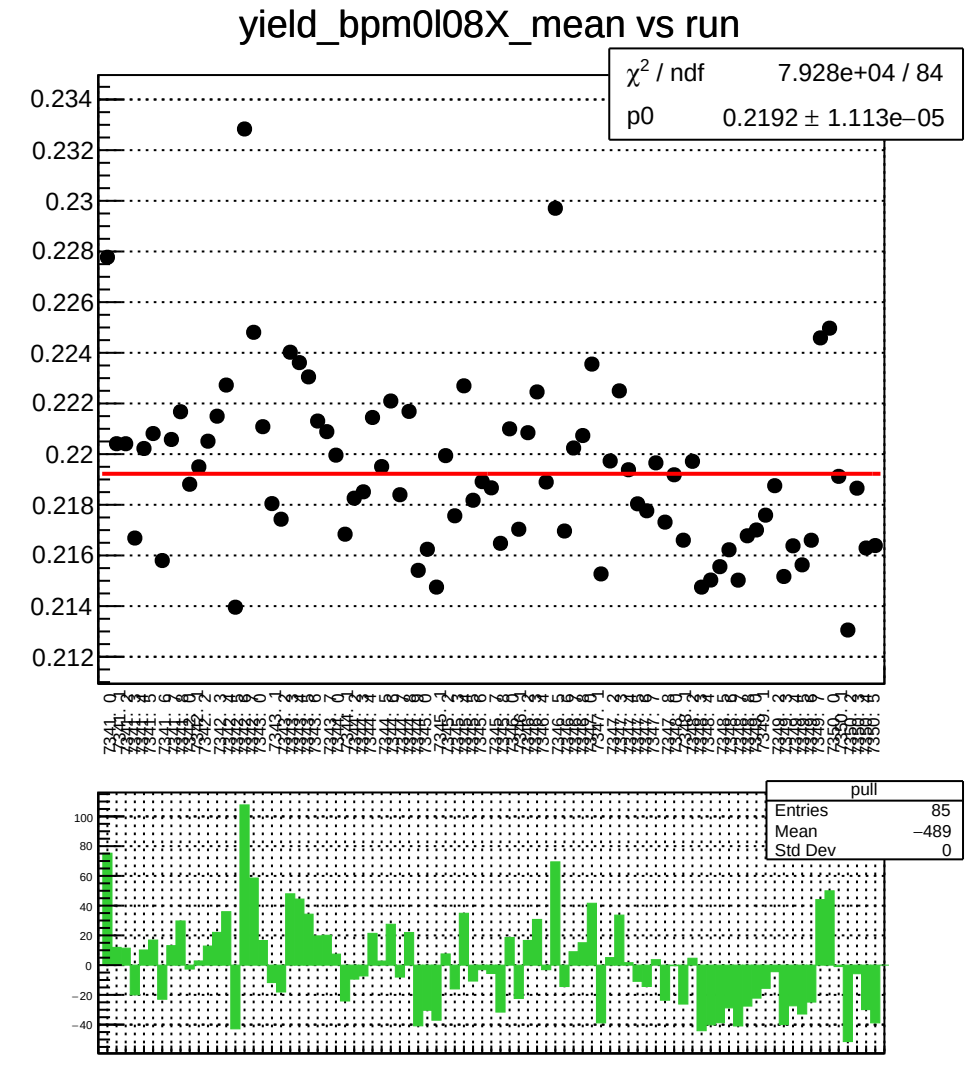

pull1D
Entries 85
Mean 1.379
Std Dev 5.013
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

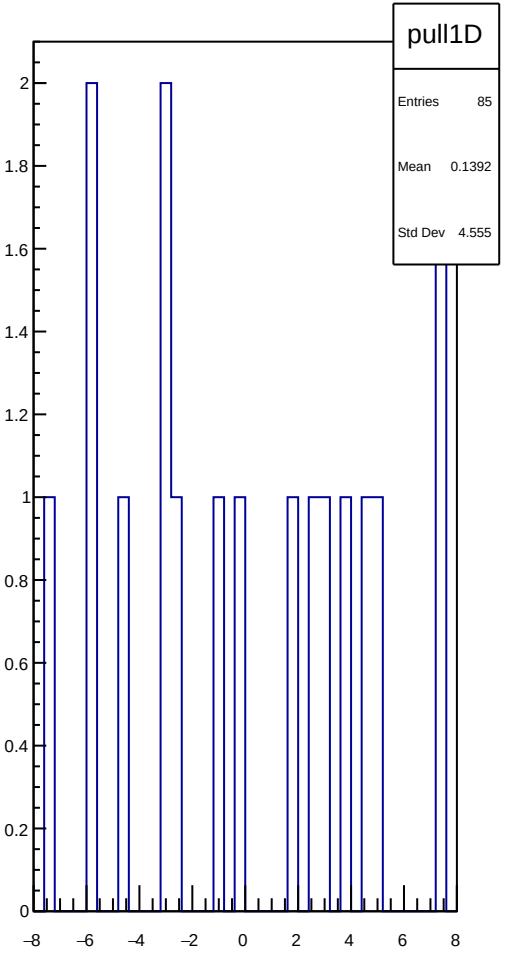

yield_bpm0l07X_rms vs run
χ² / ndf 2.036e+04 / 84
p0 0.01095 ± 8.664e–06
0.02
0.018
0.016
0.014
0.012
0.01

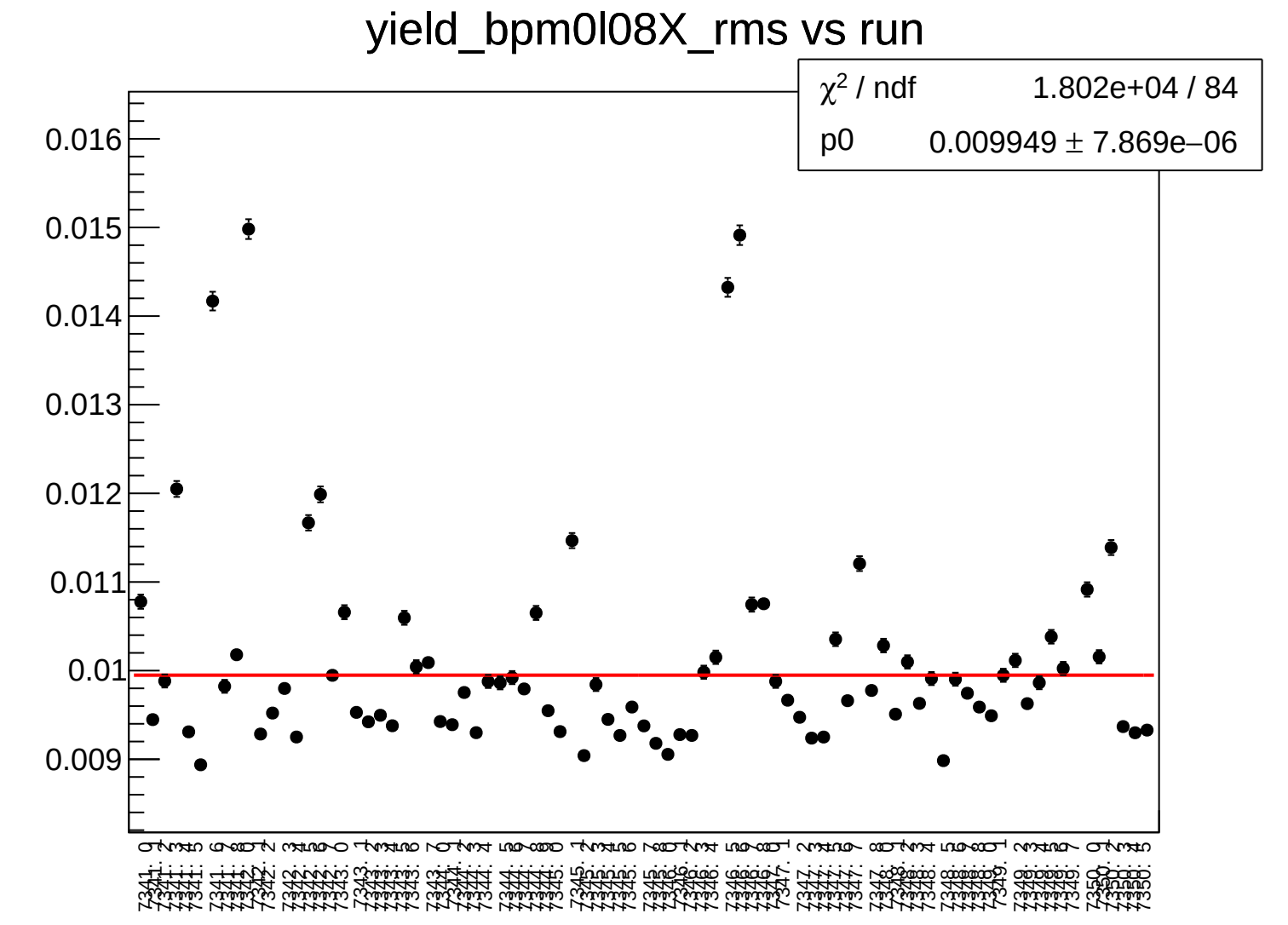

yield_bpm0l07Y_mean vs run
χ² / ndf 8.33e+05 / 84
p0 0.2634 ± 2.17e−06
0.268
0.266
0.264
0.262
0.26
0.258
pull
Entries 85
Mean −1653
Std Dev 0
200
100
0
−100
−200
−300

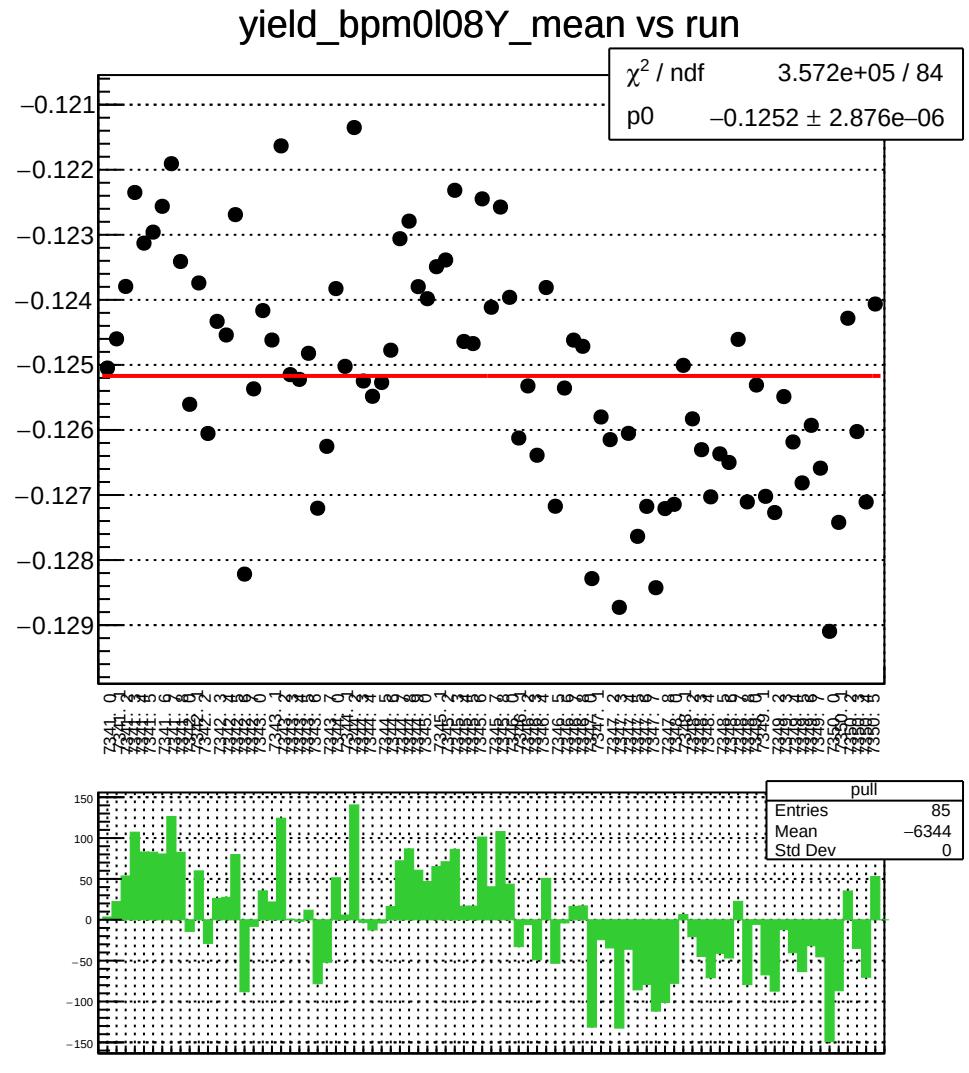

pull1D
Entries 85
Mean −4.384
Std Dev 4.07
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

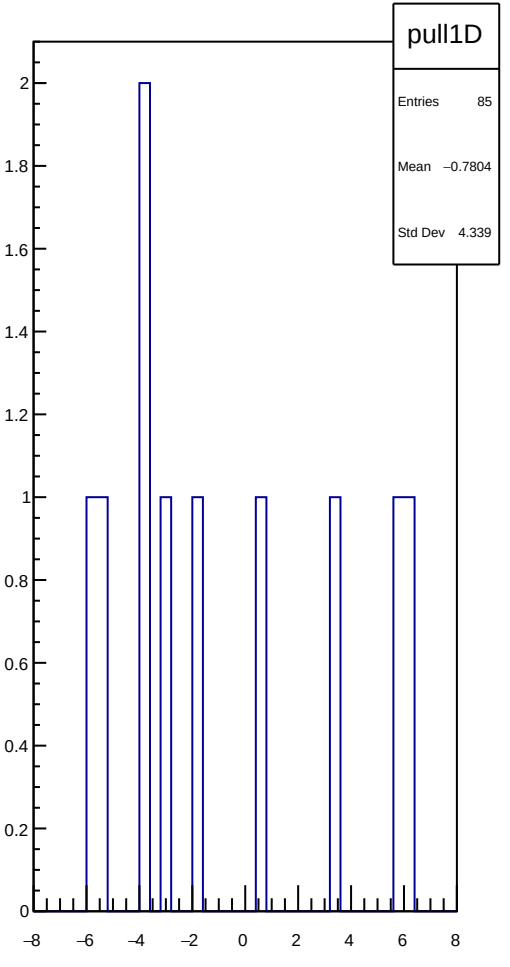

yield_bpm0l07Y_rms vs run
χ^2 / ndf 3466 / 84
p0 0.001948 ± 1.534e−06
0.0026
0.0024
0.0022
0.002
0.0018

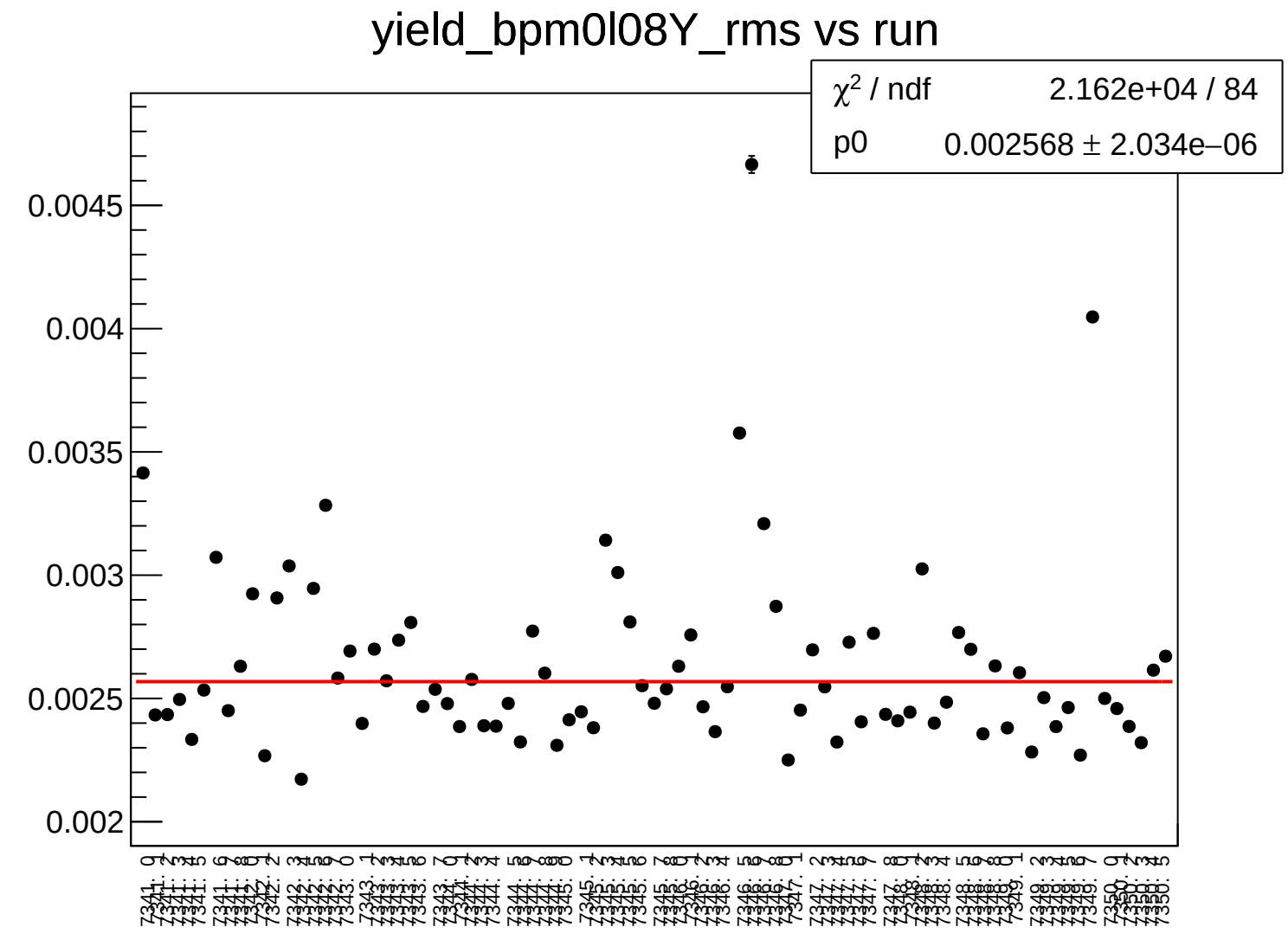

yield_bpm0l08X_mean vs run
χ² / ndf 7.928e+04 / 84
p0 0.2192 ± 1.113e−05
pull
Entries 85
Mean −489
Std Dev 0

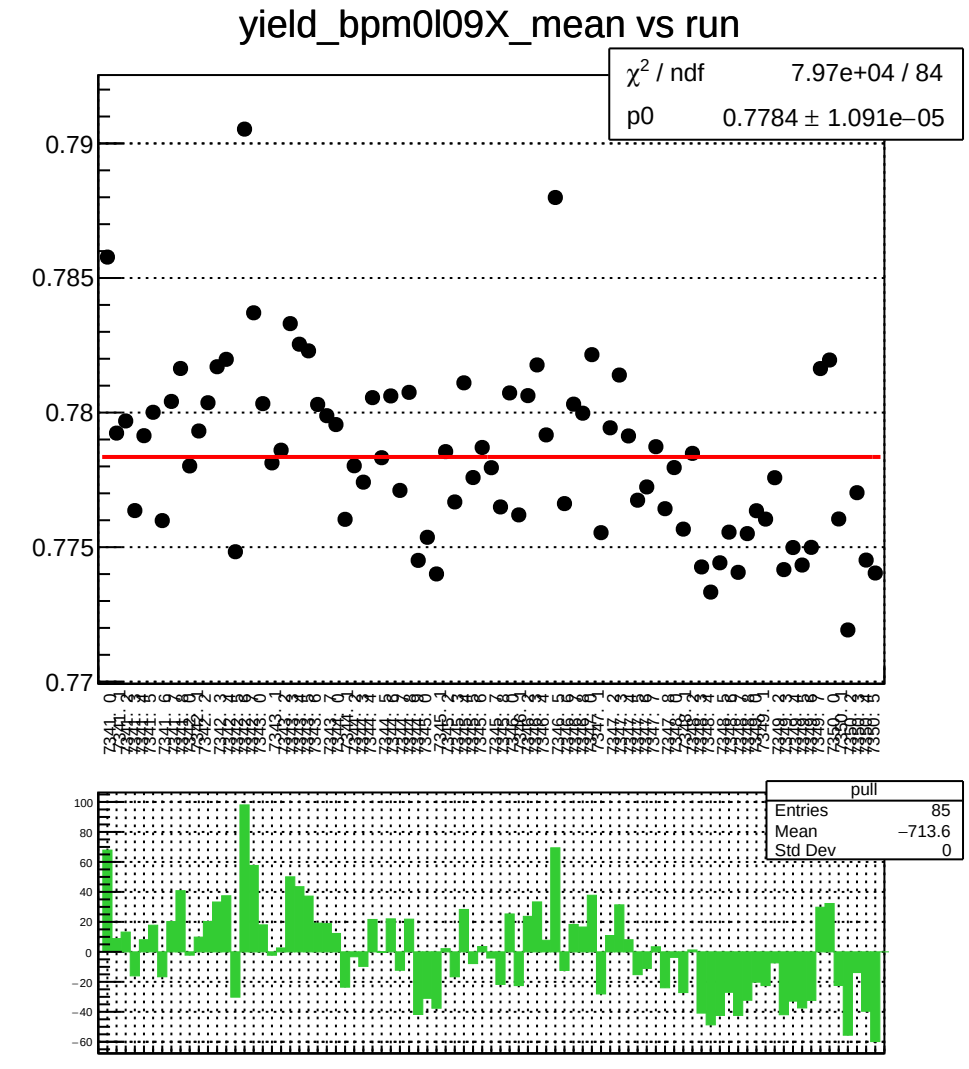

pull1D
Entries 85
Mean 0.1392
Std Dev 4.555

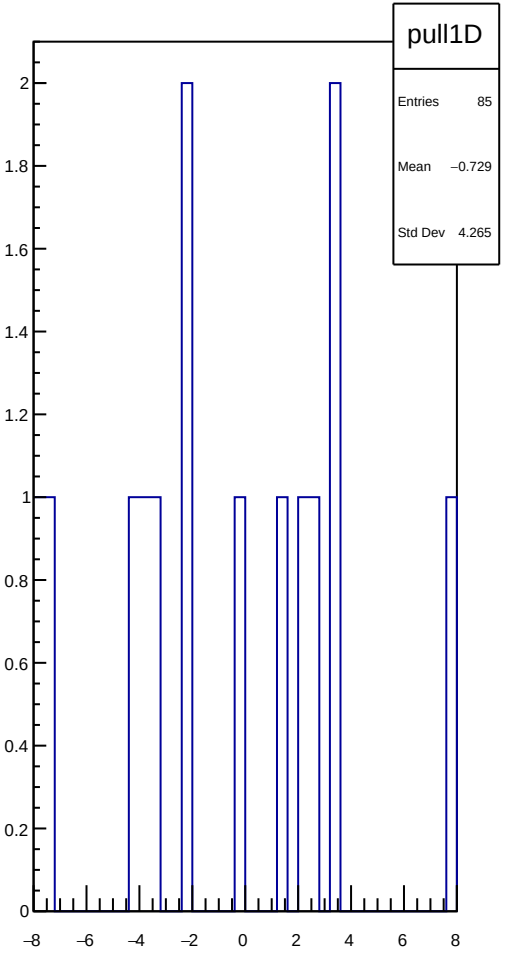

yield_bpm0l08X_rms vs run
χ² / ndf 1.802e+04 / 84
p0 0.009949 ± 7.869e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

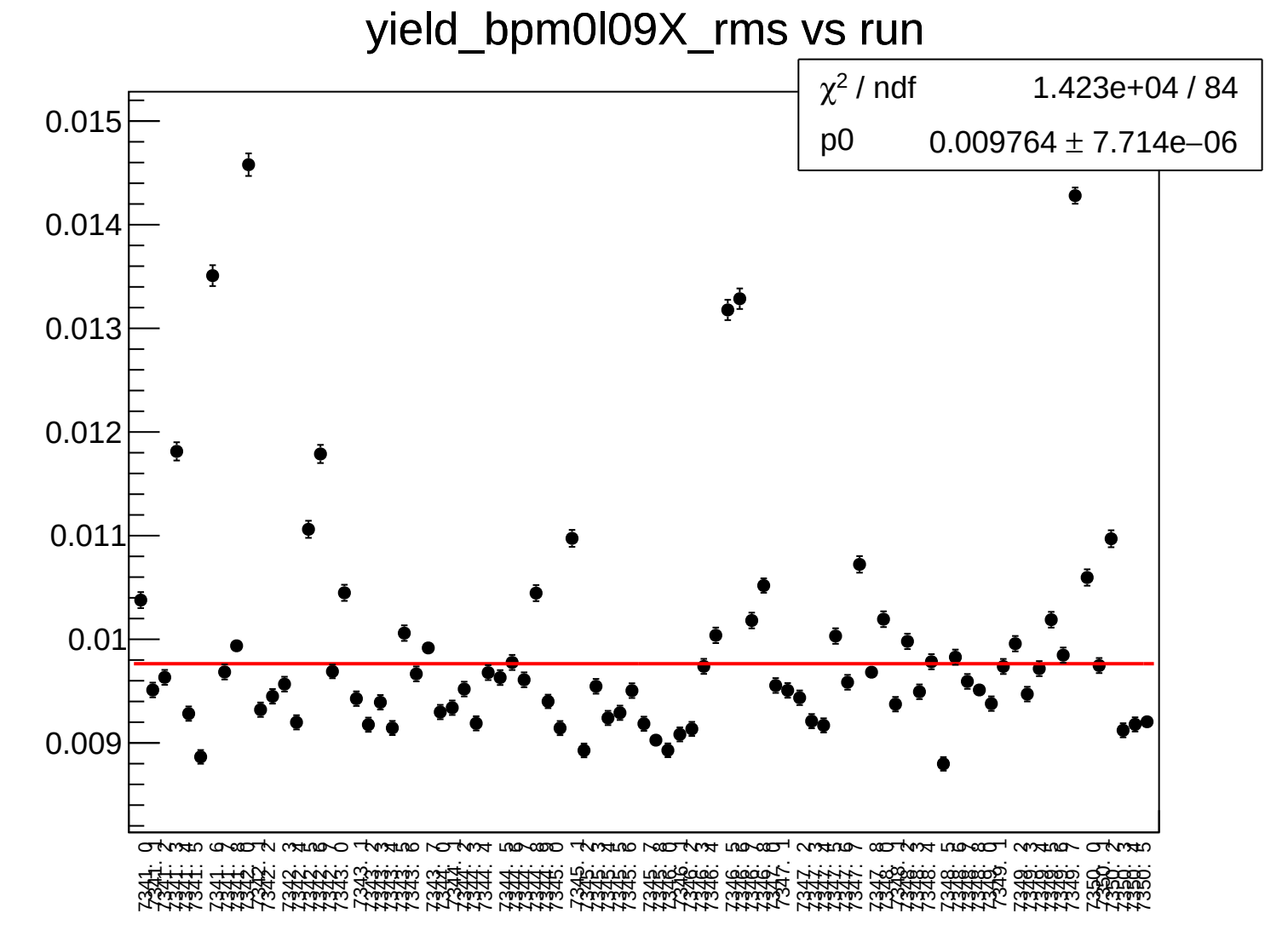

yield_bpm0l08Y_mean vs run
χ² / ndf 3.572e+05 / 84
p0 −0.1252 ± 2.876e−06
−0.121
−0.122
−0.123
−0.124
−0.125
−0.126
−0.127
−0.128
−0.129
pull
Entries 85
Mean −6344
Std Dev 0
150
100
50
0
−50
−100
−150

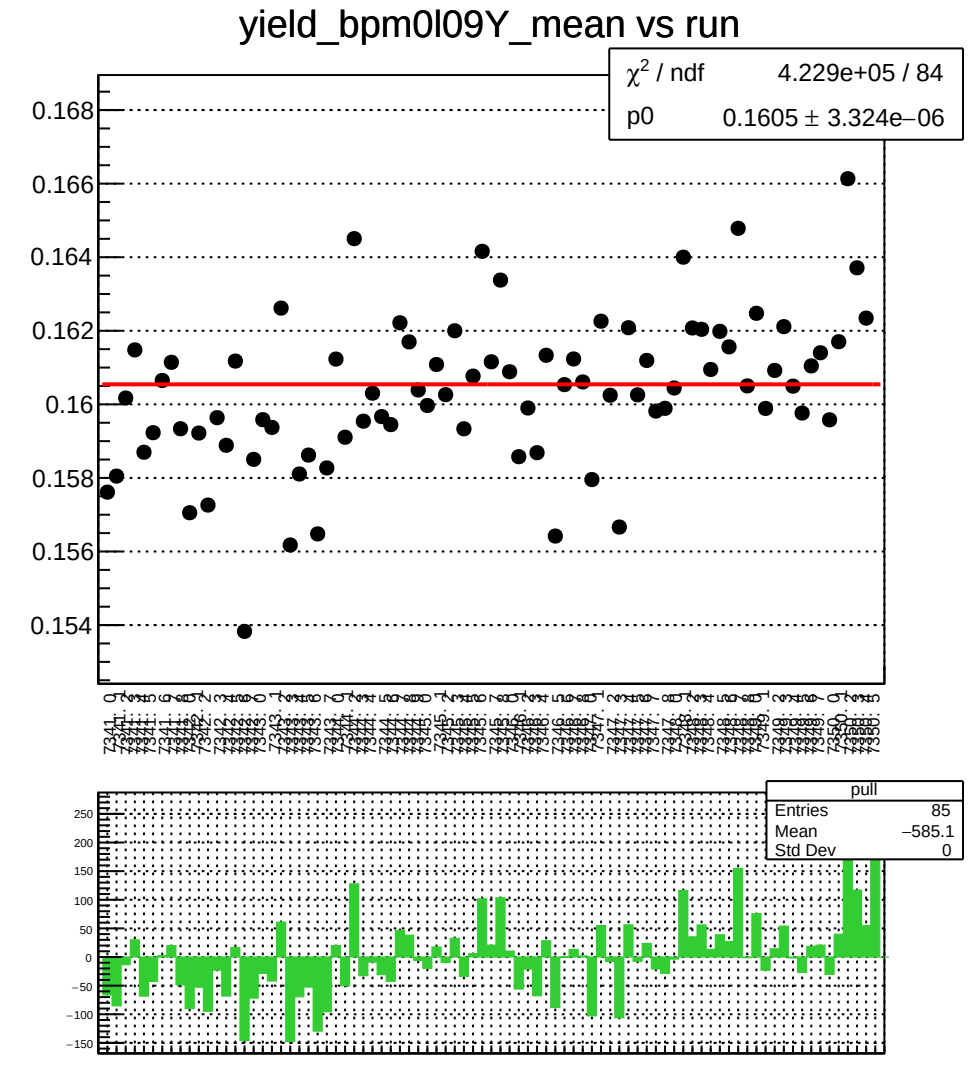

pull1D
Entries 85
Mean −0.7804
Std Dev 4.339
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

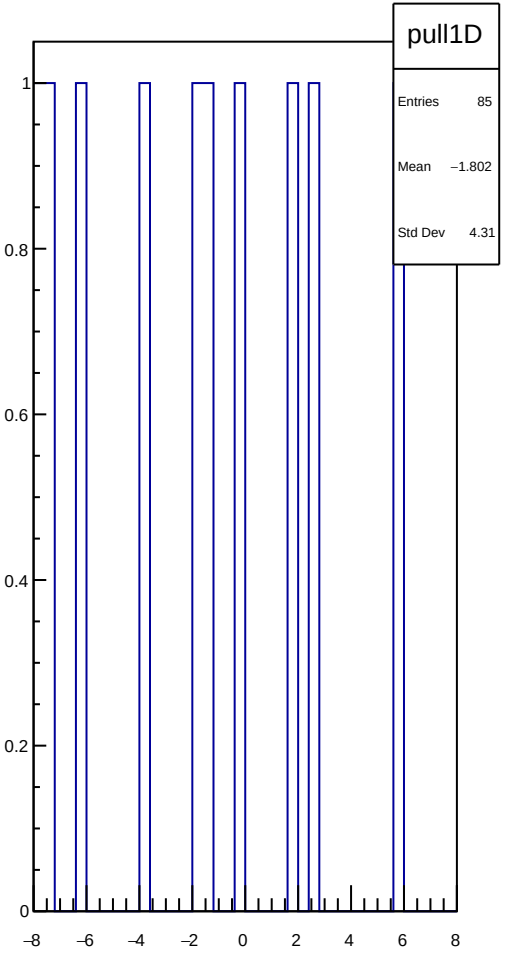

yield_bpm0l08Y_rms vs run
χ² / ndf 2.162e+04 / 84
p0 0.002568 ± 2.034e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

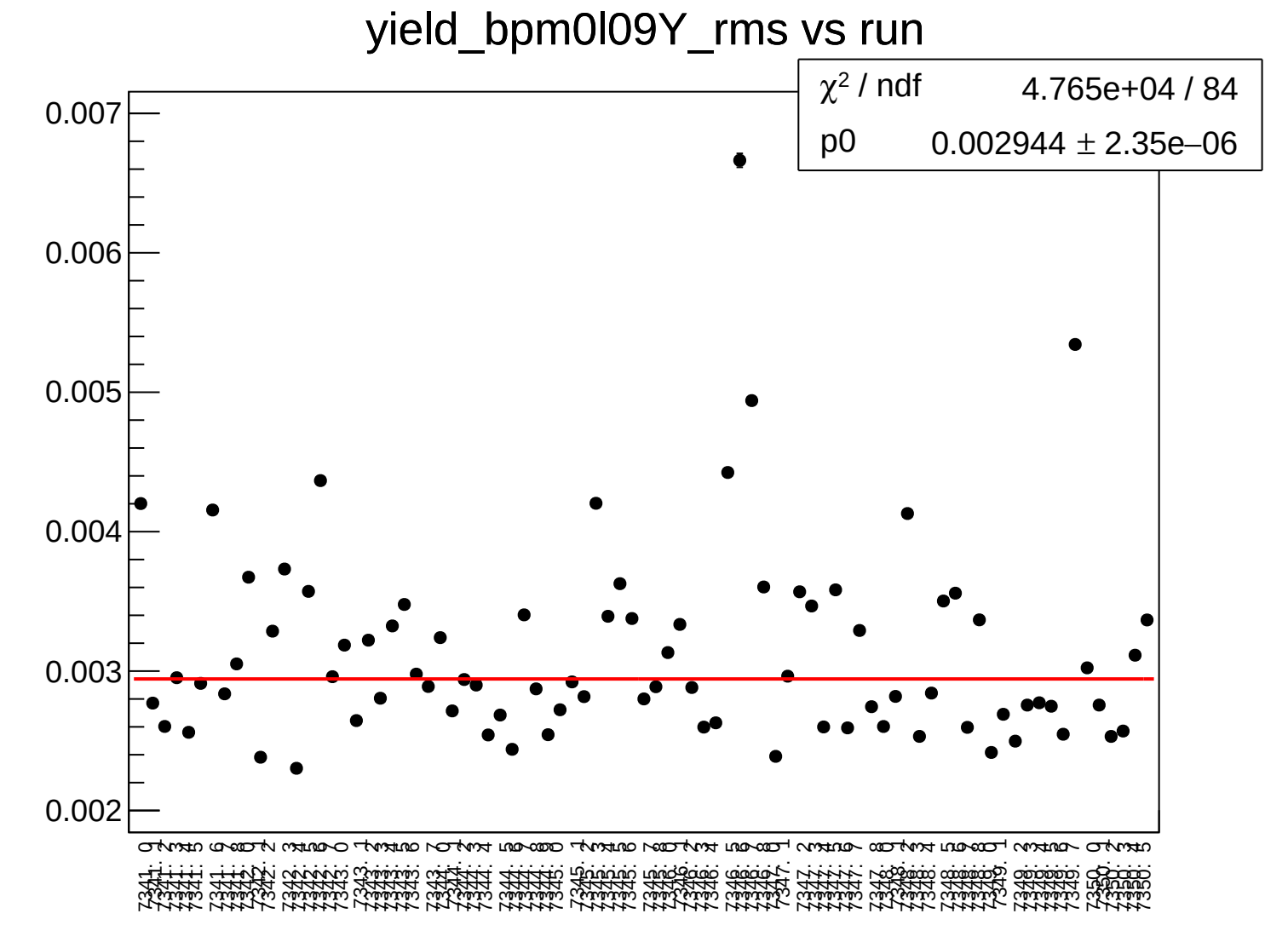

yield_bpm0l09X_mean vs run
χ² / ndf 7.97e+04 / 84
p0 0.7784 ± 1.091e−05
0.79
0.785
0.78
0.775
0.77
pull
Entries 85
Mean −713.6
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

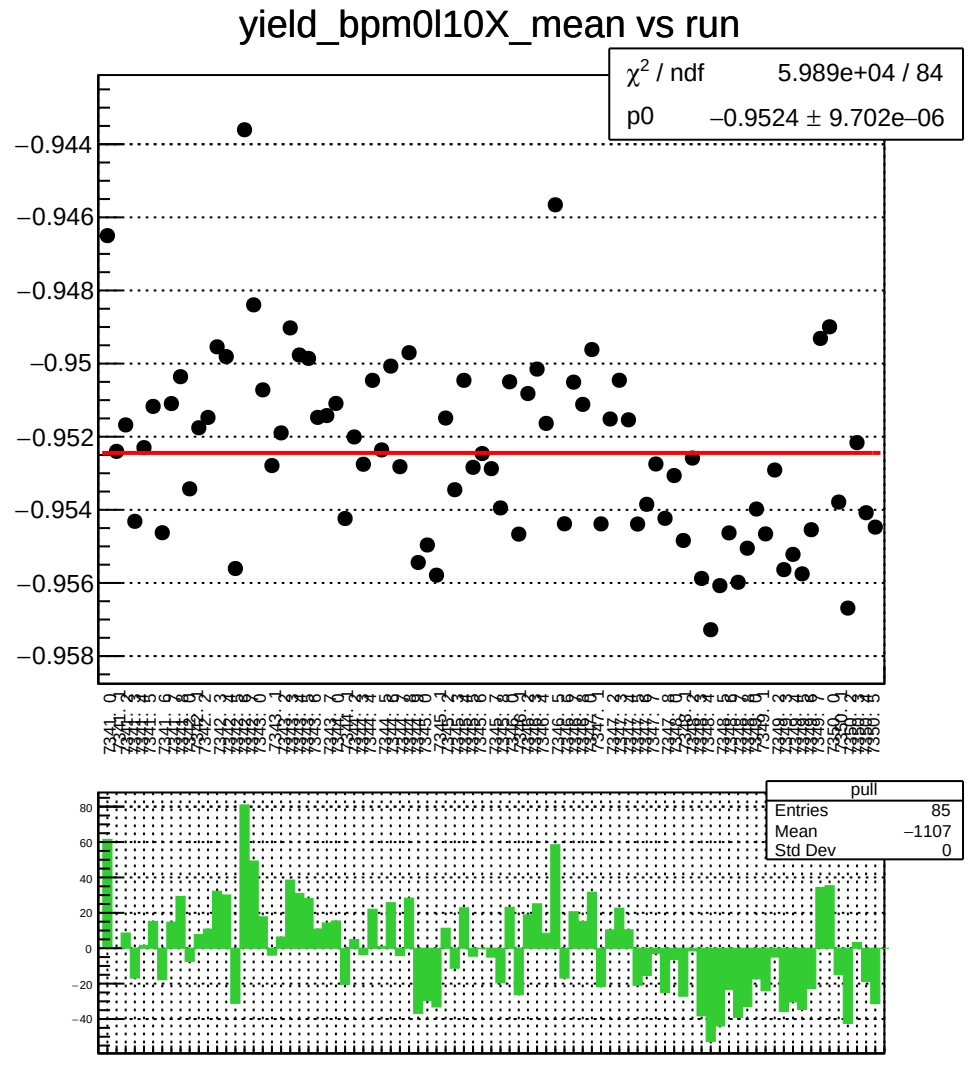

pull1D
Entries 85
Mean −0.729
Std Dev 4.265
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

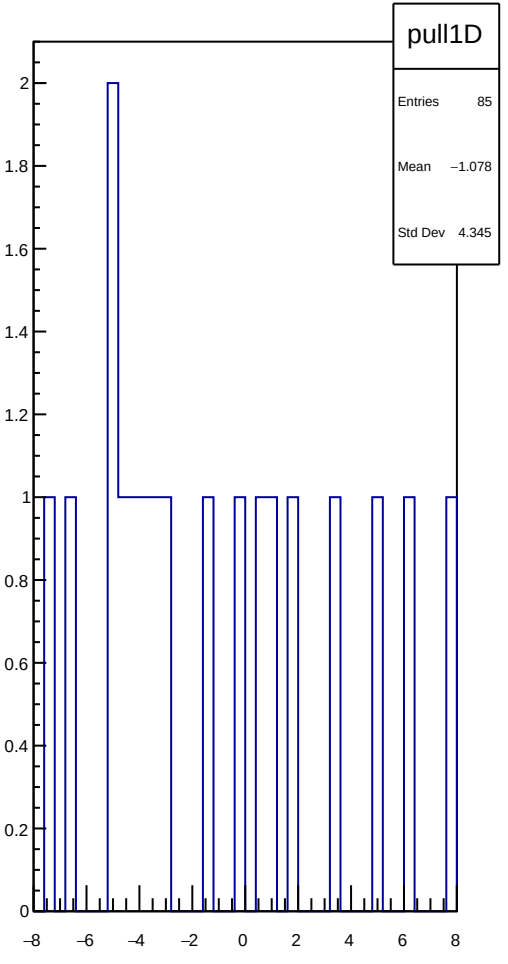

yield_bpm0l09X_rms vs run
χ² / ndf 1.423e+04 / 84
p0 0.009764 ± 7.714e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009


yield_bpm0l09Y_mean vs run
χ² / ndf 4.229e+05 / 84
p0 0.1605 ± 3.324e−06
0.168
0.166
0.164
0.162
0.16
0.158
0.156
0.154
pull
Entries 85
Mean −585.1
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

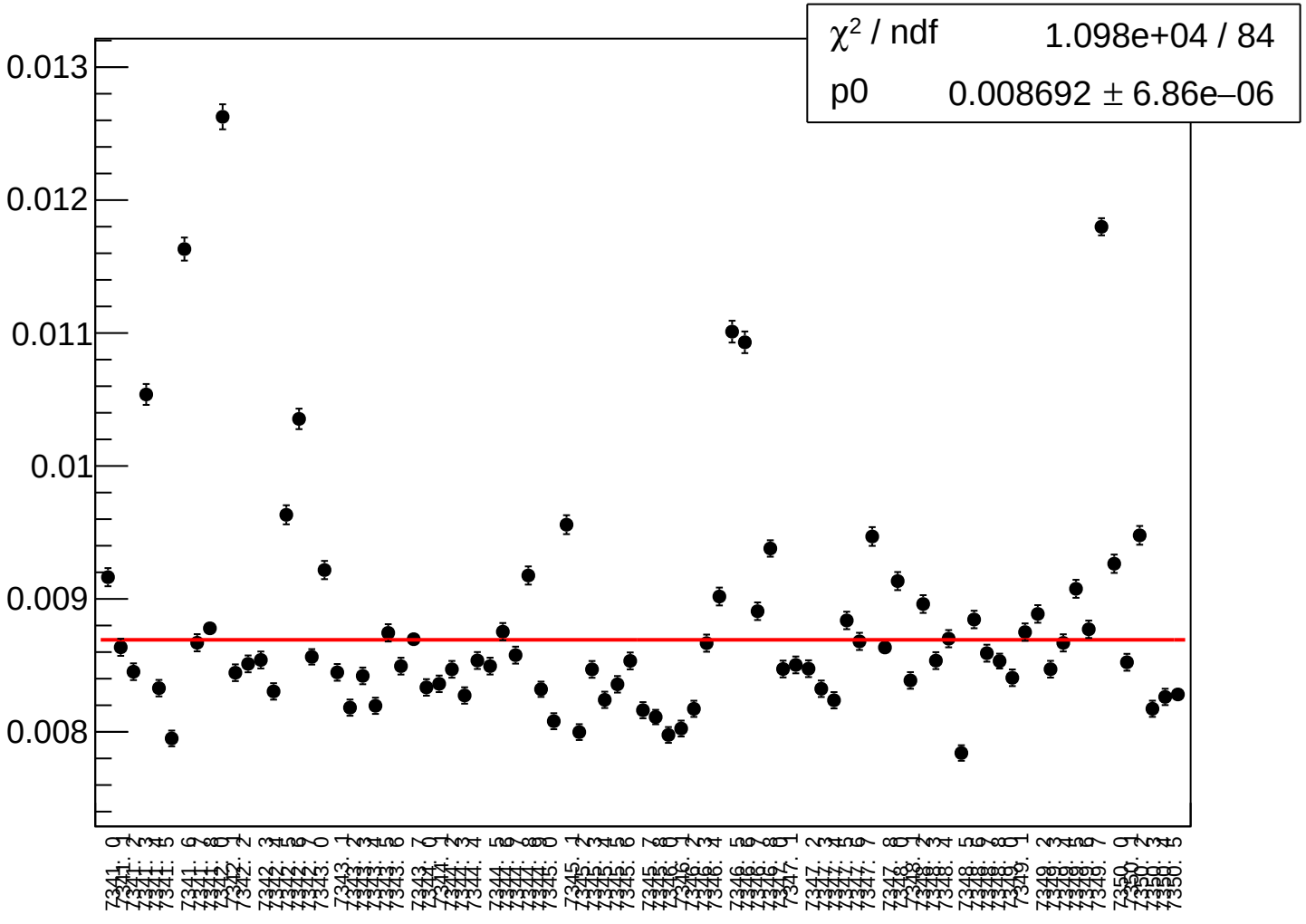

pull1D
Entries 85
Mean −1.802
Std Dev 4.31
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

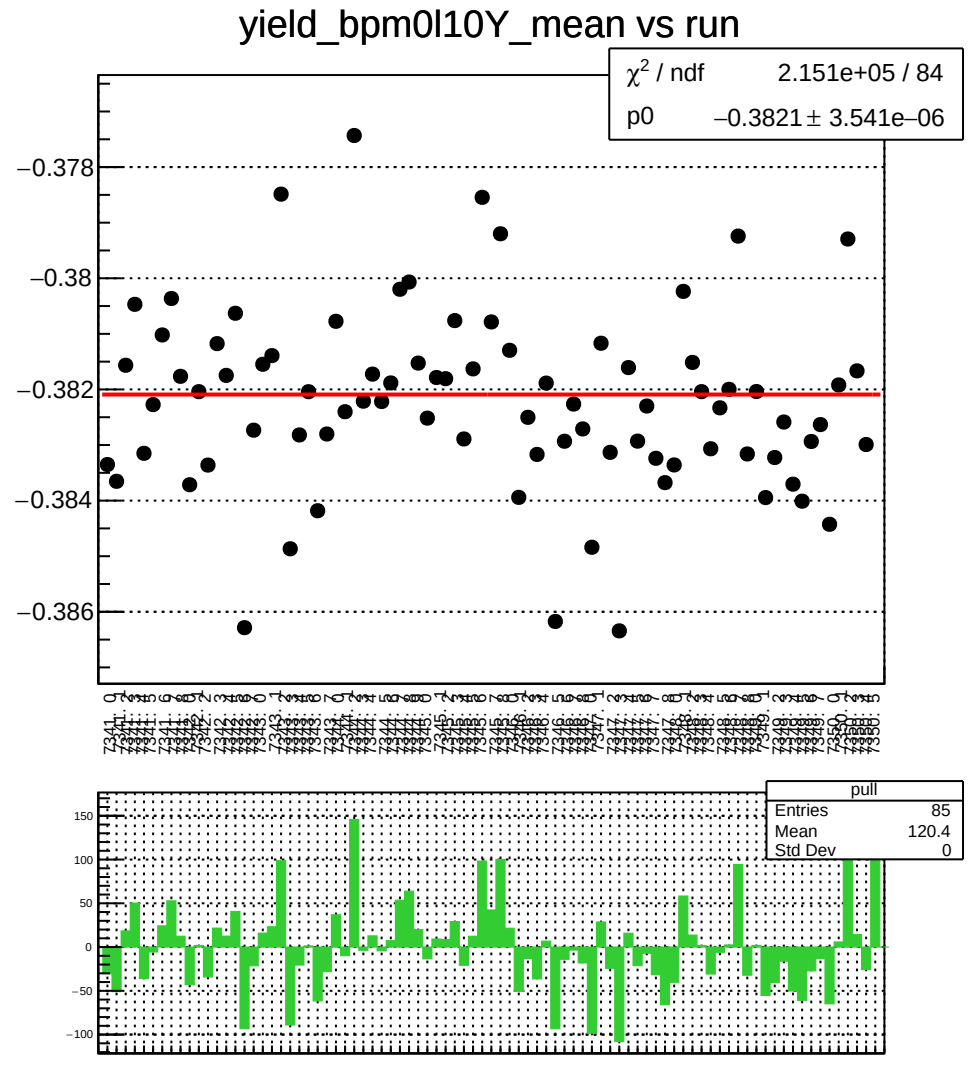

yield_bpm0l09Y_rms vs run
χ² / ndf 4.765e+04 / 84
p0 0.002944 ± 2.35e−06
0.007
0.006
0.005
0.004
0.003
0.002

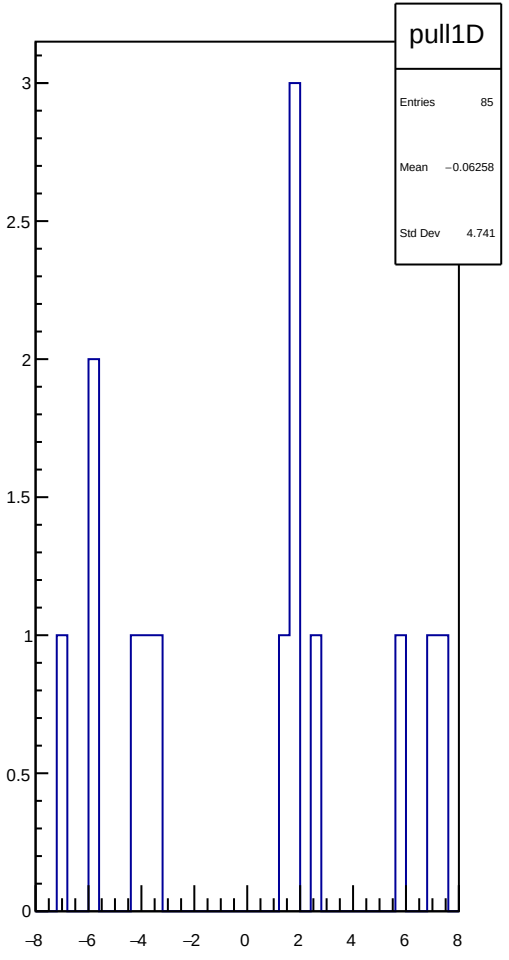

yield_bpm0l10X_mean vs run
χ² / ndf 5.989e+04 / 84
p0 −0.9524 ± 9.702e−06
−0.944
−0.946
−0.948
−0.95
−0.952
−0.954
−0.956
−0.958
pull
Entries 85
Mean −1107
Std Dev 0
80
60
40
20
0
−20
−40

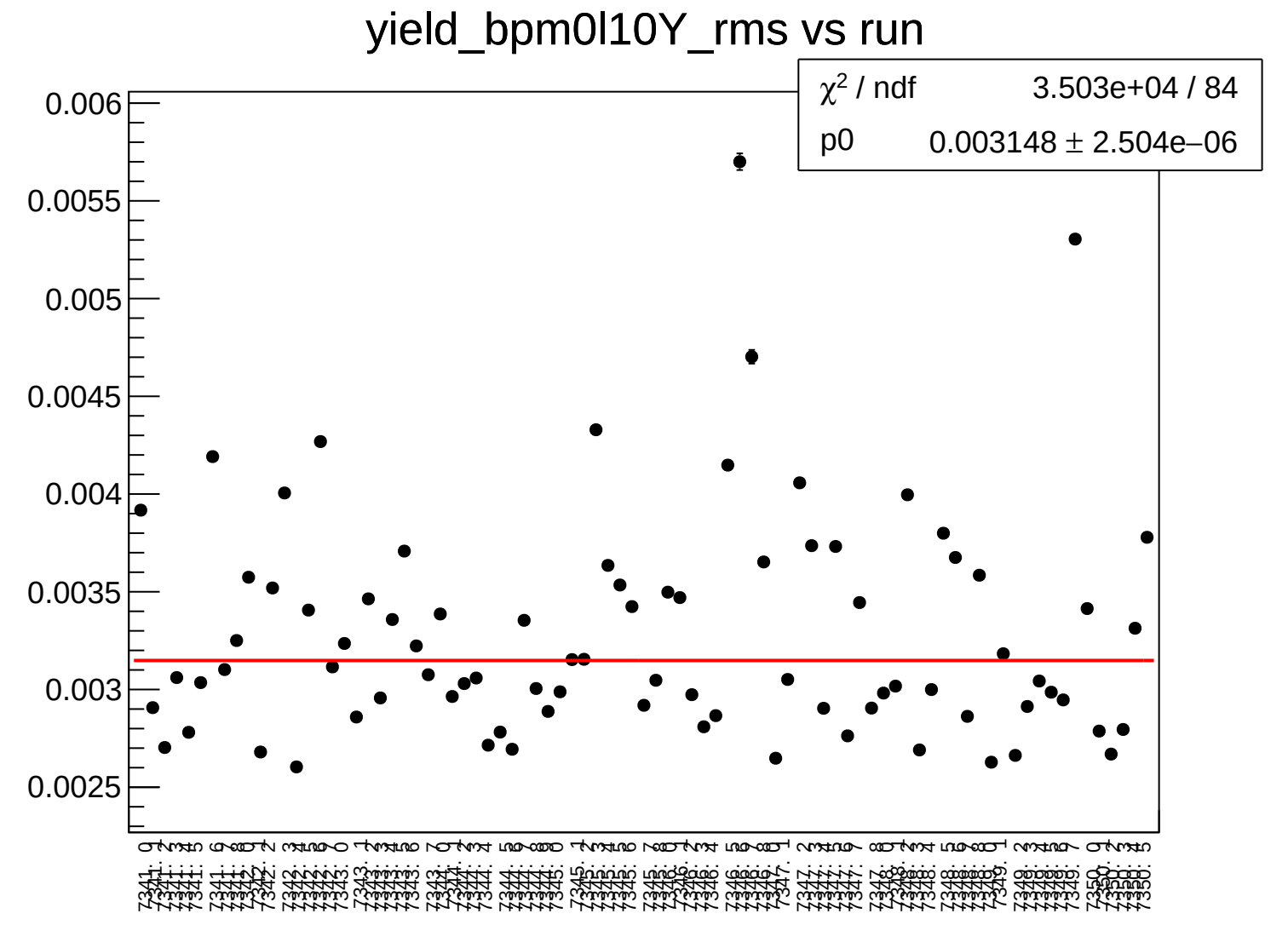

pull1D
Entries 85
Mean −1.078
Std Dev 4.345
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

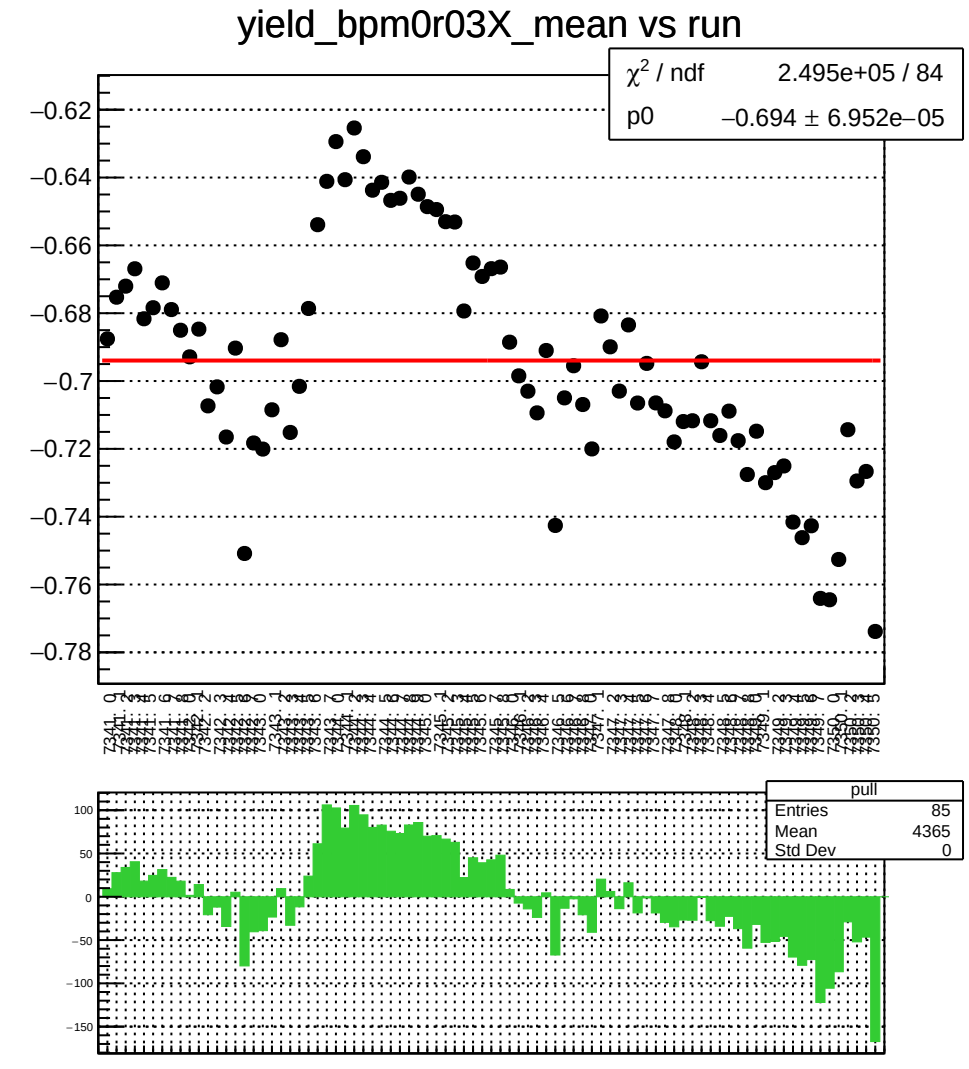
yield_bpm0l10X_rms vs run

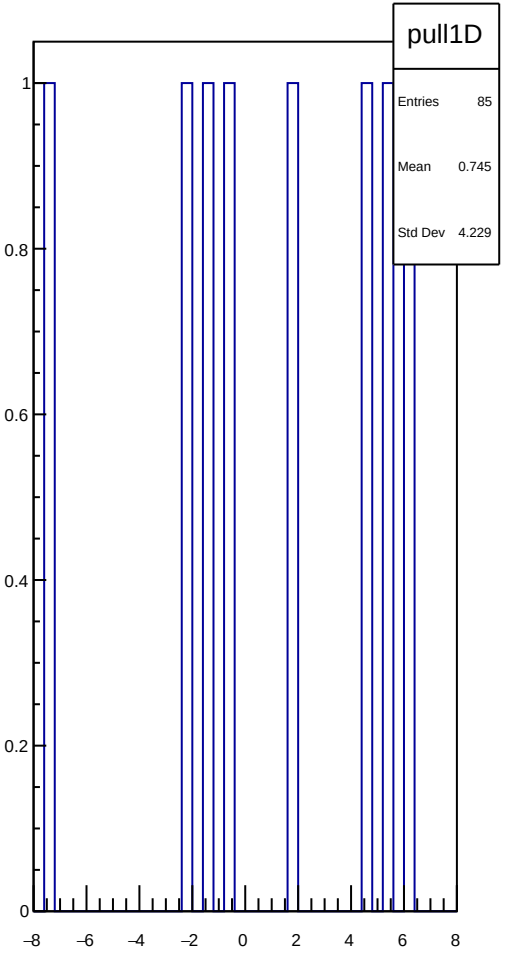


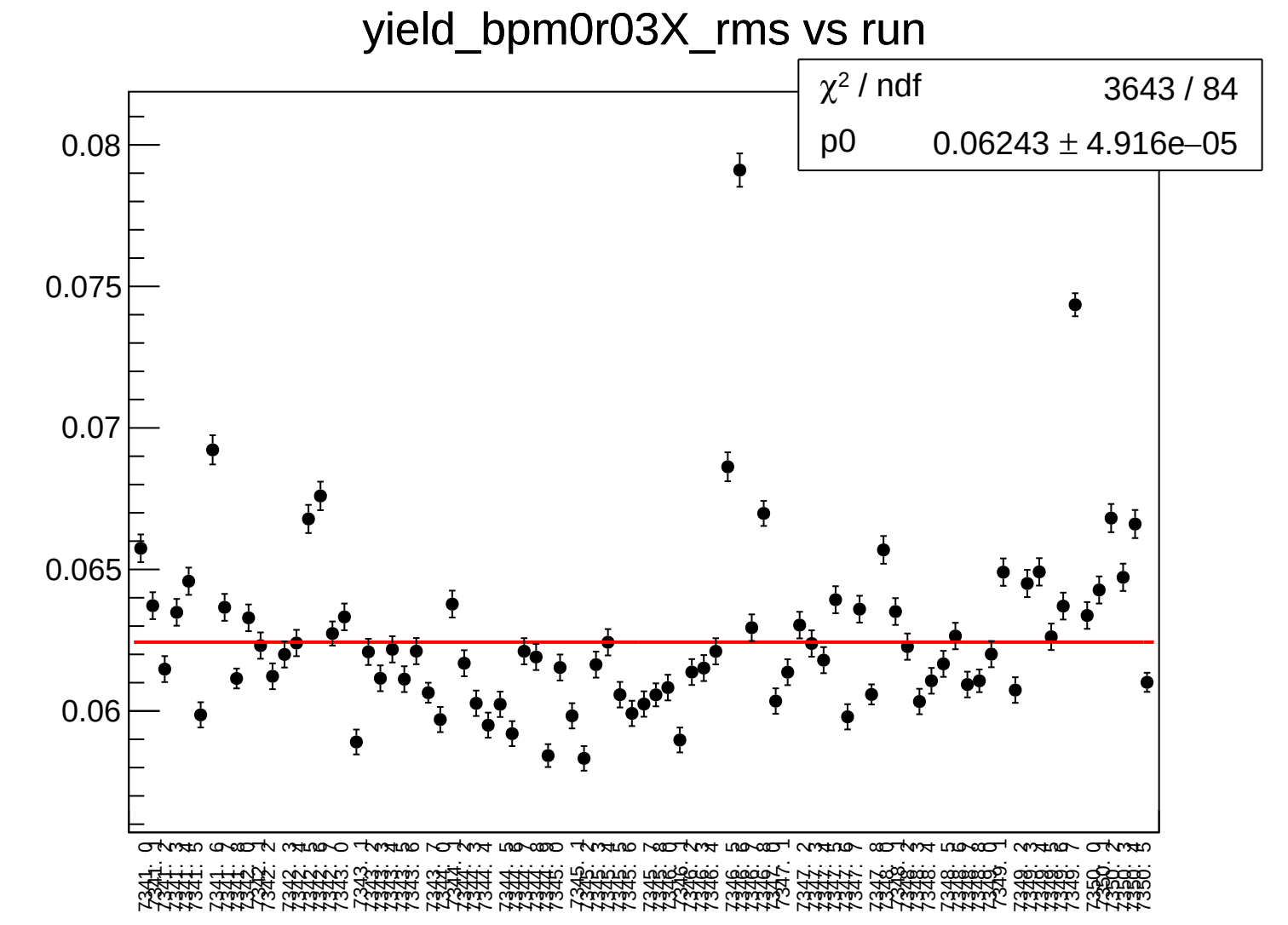

yield_bpm0l10Y_mean vs run
χ² / ndf 2.151e+05 / 84
p0 −0.3821 ± 3.541e−06
−0.378
−0.38
−0.382
−0.384
−0.386
pull
Entries 85
Mean 120.4
Std Dev 0
150
100
50
0
−50
−100

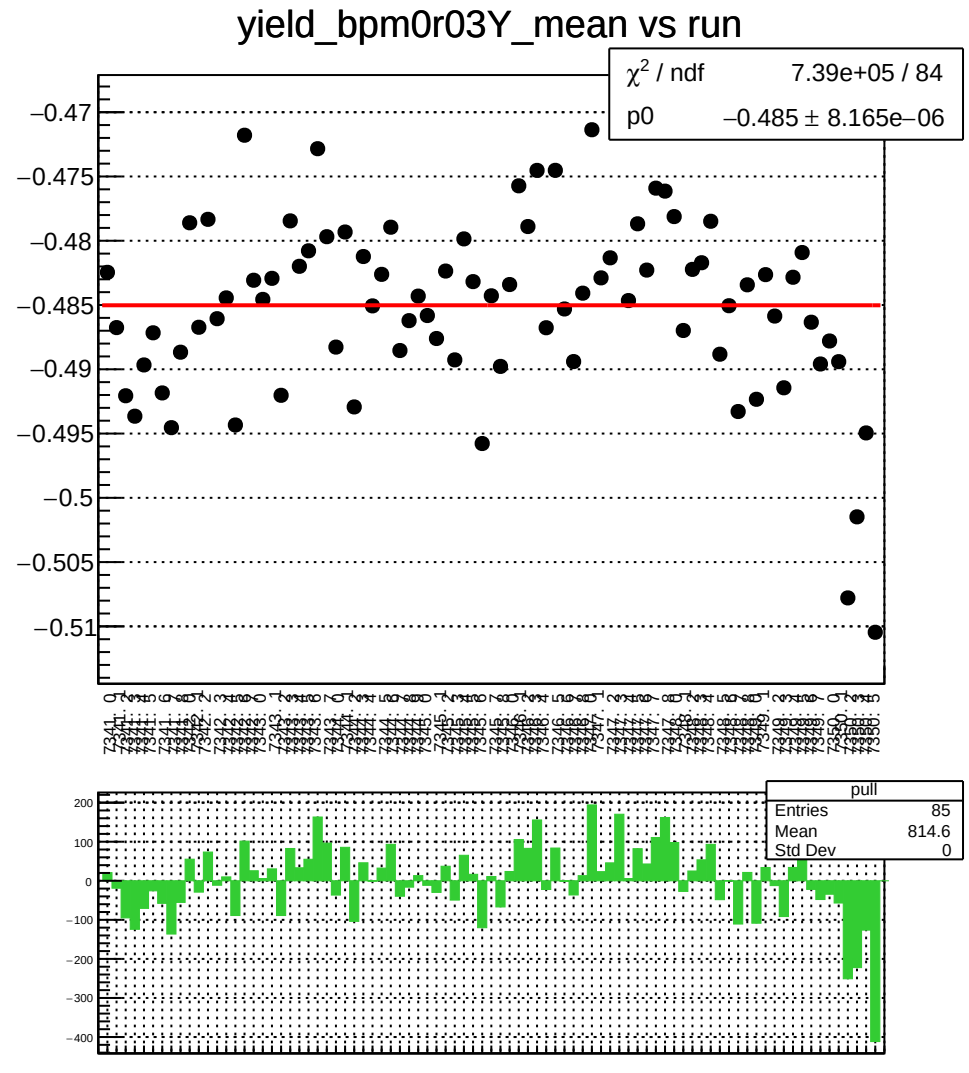

pull1D
Entries 85
Mean −0.06258
Std Dev 4.741
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

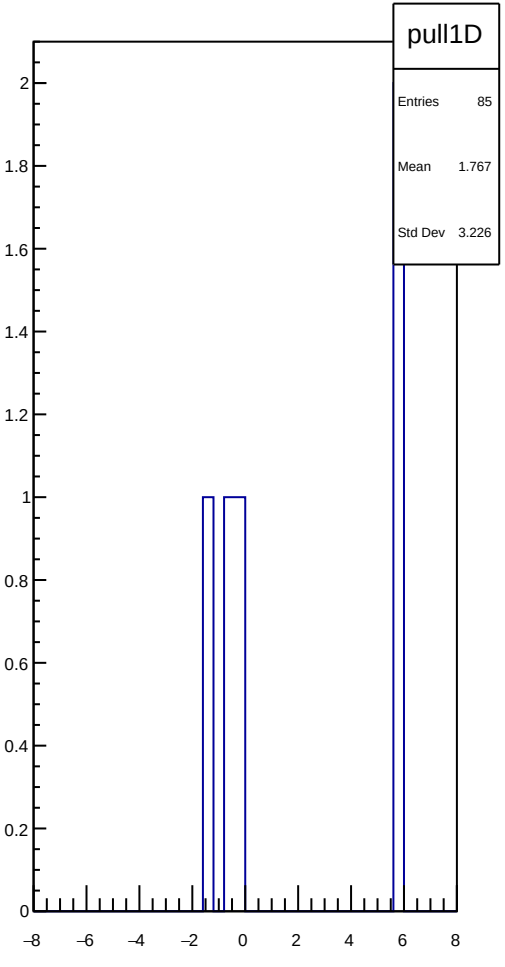

yield_bpm0l10Y_rms vs run
χ^2 / ndf 3.503e+04 / 84
p0 0.003148 ± 2.504e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

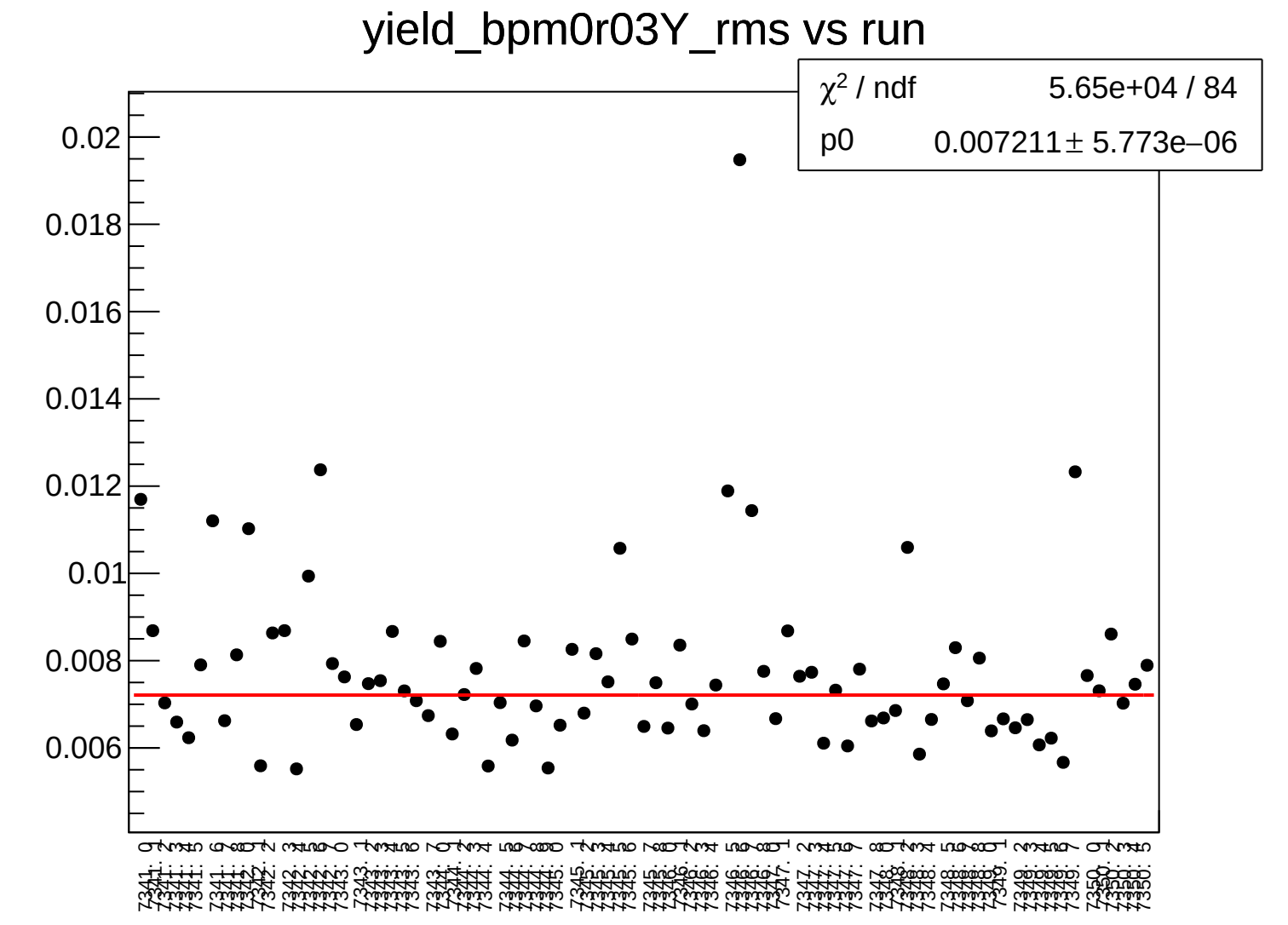

yield_bpm0r03X_mean vs run
χ² / ndf 2.495e+05 / 84
p0 −0.694 ± 6.952e−05
pull
Entries 85
Mean 4365
Std Dev 0

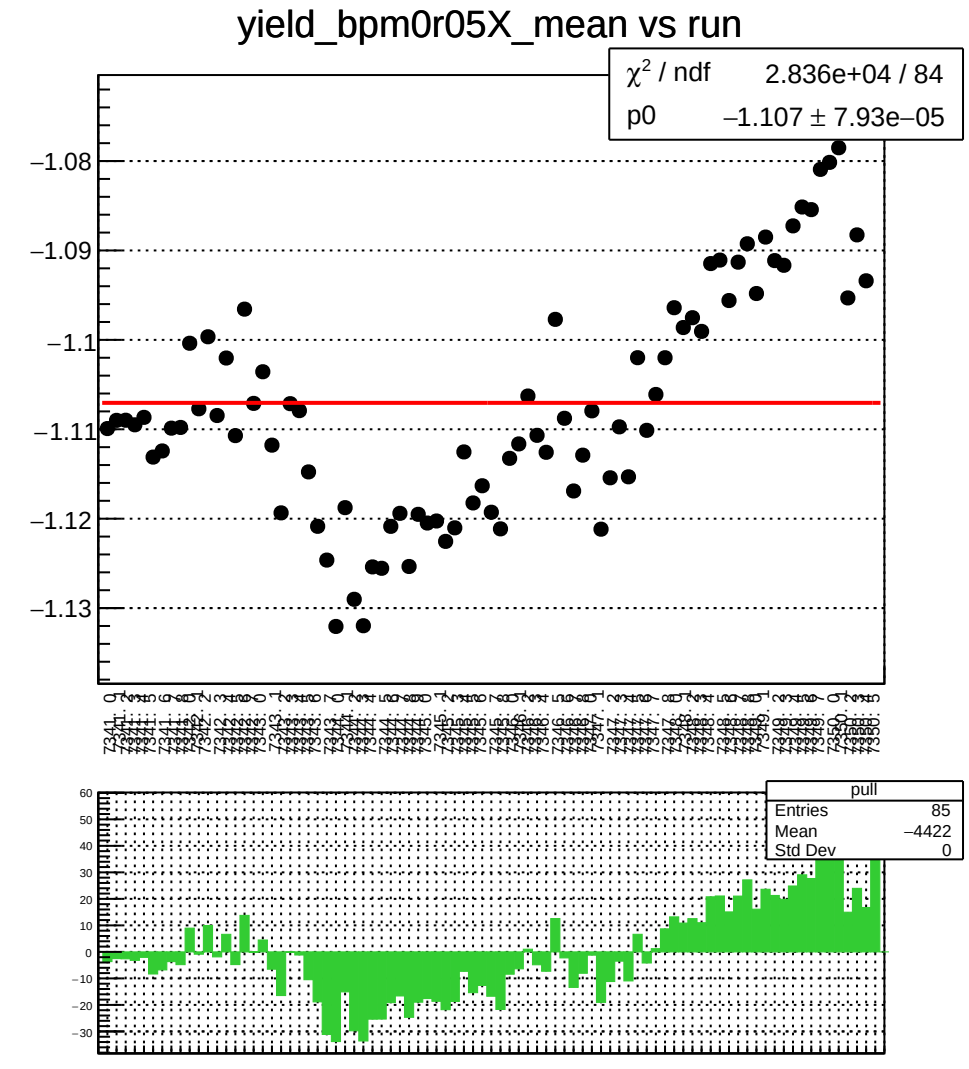

pull1D
Entries 85
Mean 0.745
Std Dev 4.229

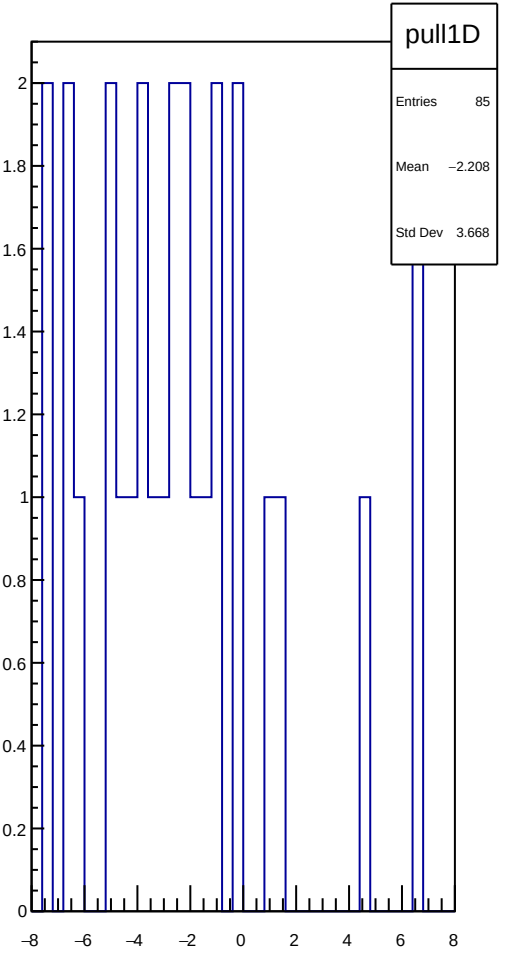

yield_bpm0r03X_rms vs run
χ² / ndf 3643 / 84
p0 0.06243 ± 4.916e–05
0.08
0.075
0.07
0.065
0.06

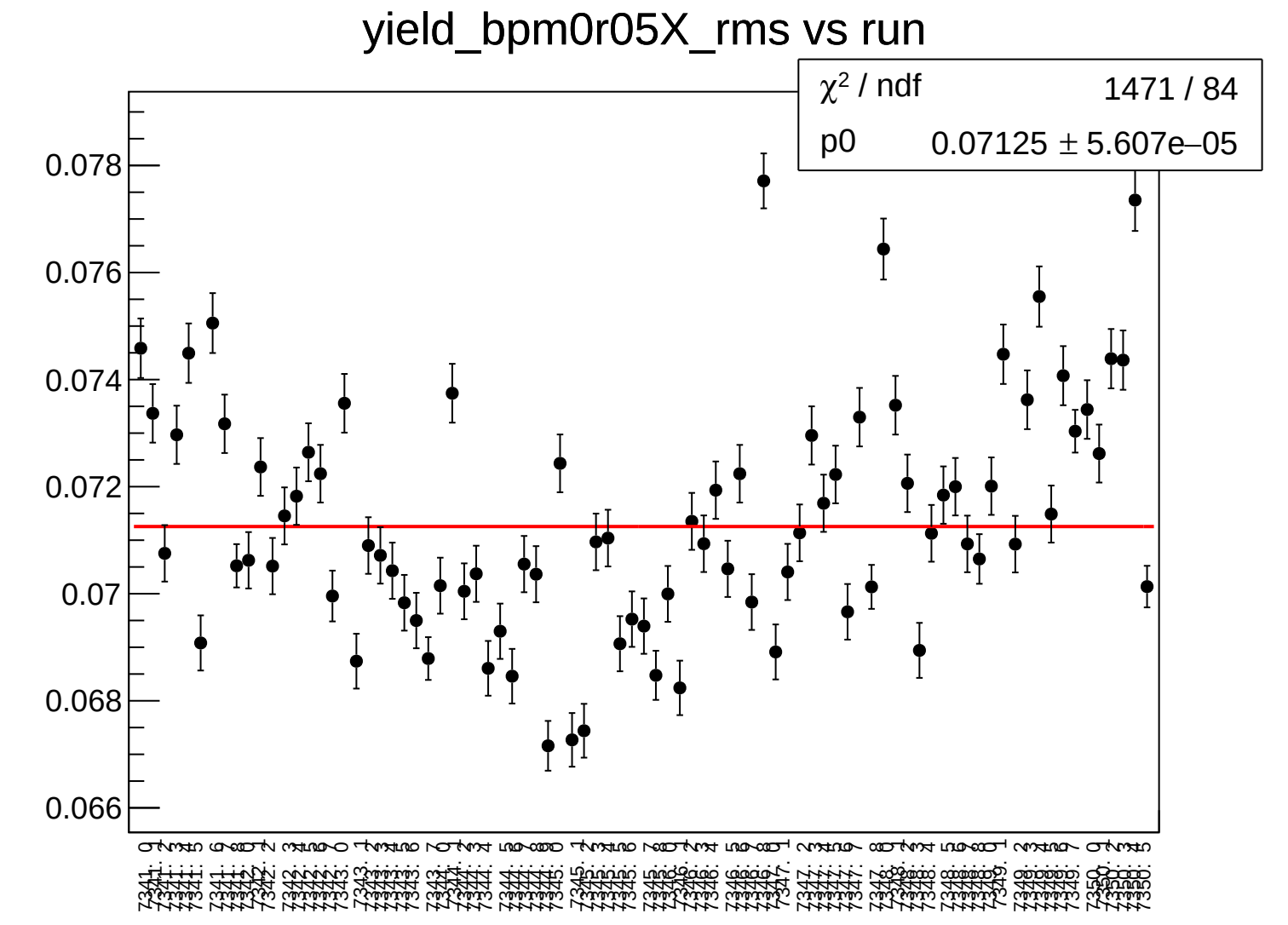

yield_bpm0r03Y_mean vs run
χ² / ndf 7.39e+05 / 84
p0 −0.485 ± 8.165e−06
−0.47
−0.475
−0.48
−0.485
−0.49
−0.495
−0.5
−0.505
−0.51
pull
Entries 85
Mean 814.6
Std Dev 0
200
100
0
−100
−200
−300
−400

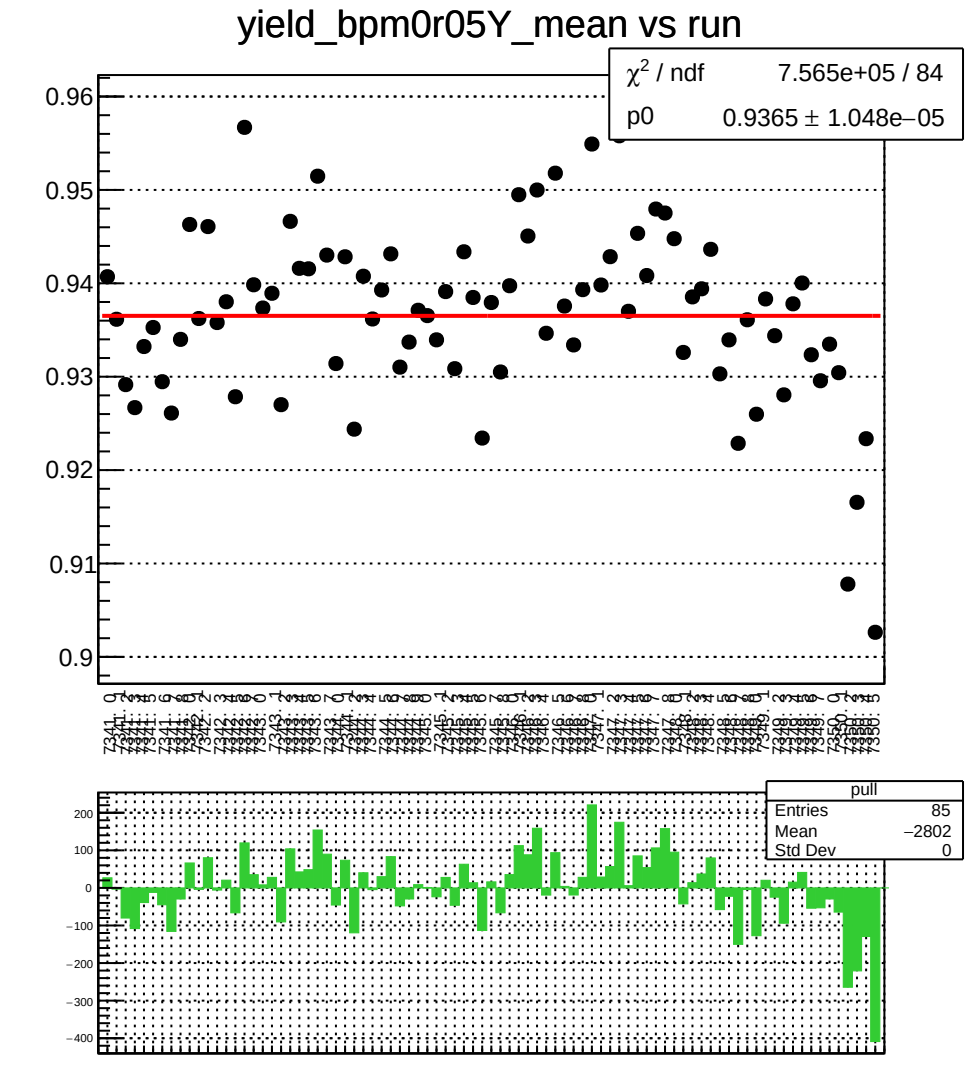

pull1D
Entries 85
Mean 1.767
Std Dev 3.226
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

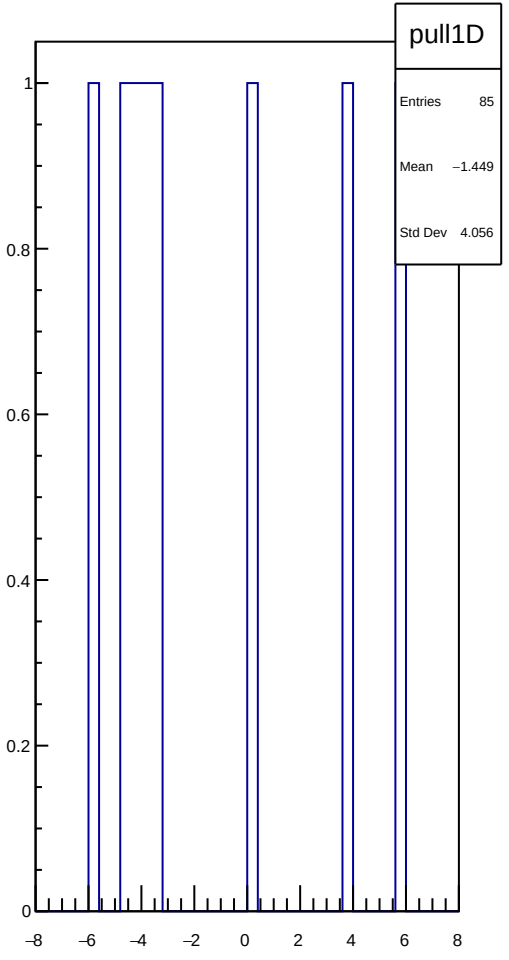

yield_bpm0r03Y_rms vs run
χ² / ndf 5.65e+04 / 84
p0 0.007211 ± 5.773e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

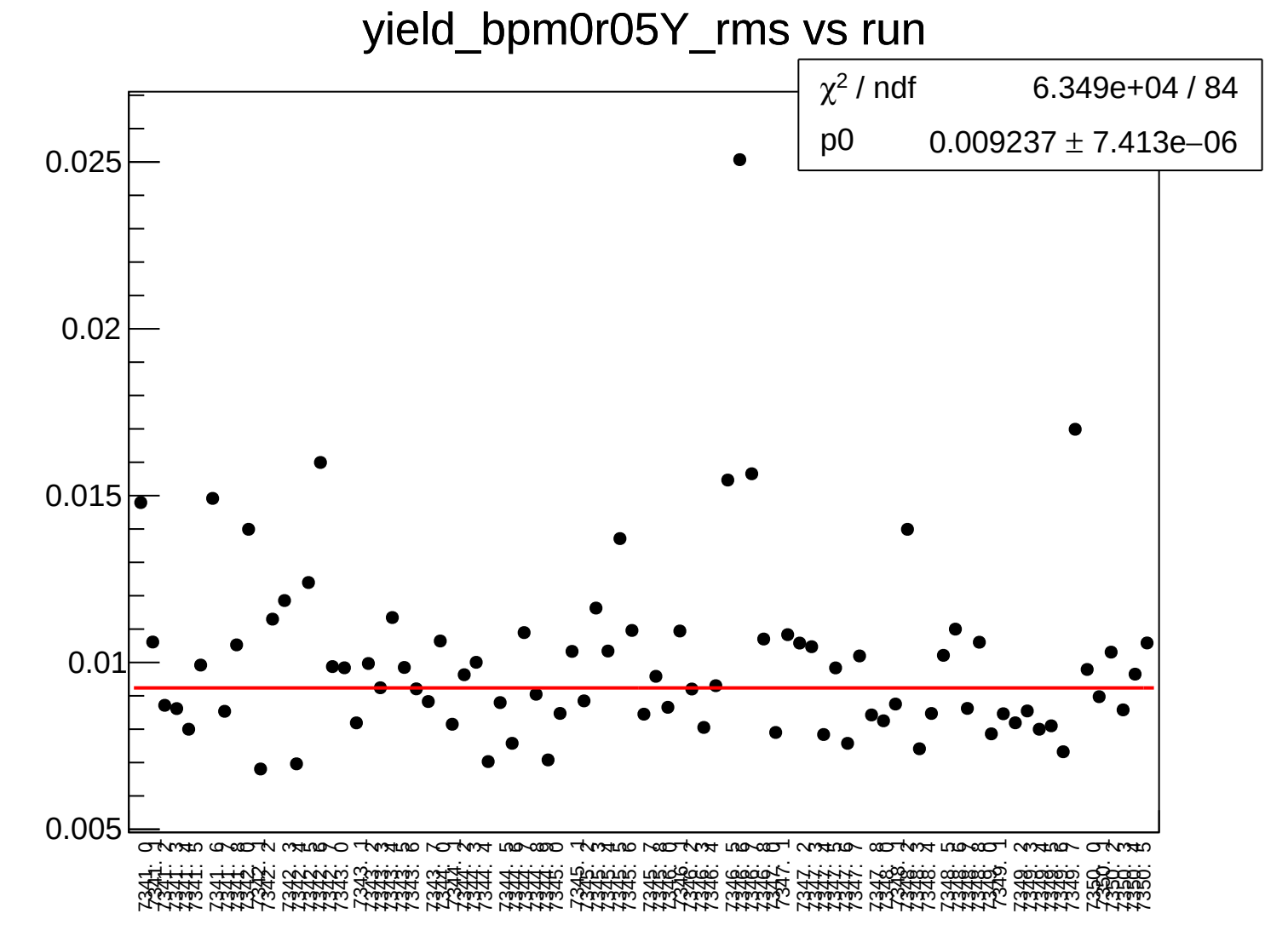

yield_bpm0r05X_mean vs run
χ² / ndf 2.836e+04 / 84
p0 −1.107 ± 7.93e−05
−1.08
−1.09
−1.1
−1.11
−1.12
−1.13
pull
Entries 85
Mean −4422
Std Dev 0
60
50
40
30
20
10
0
−10
−20
−30

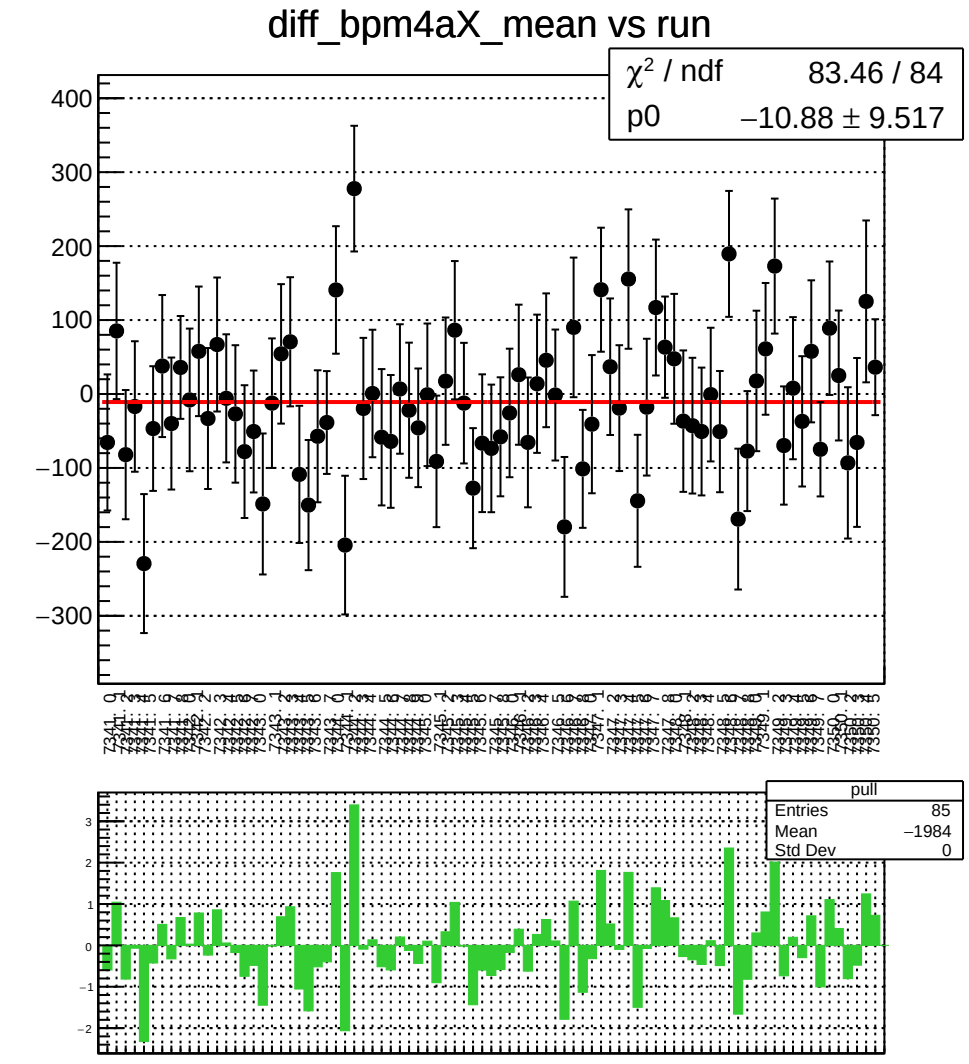

pull1D
Entries 85
Mean −2.208
Std Dev 3.668
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

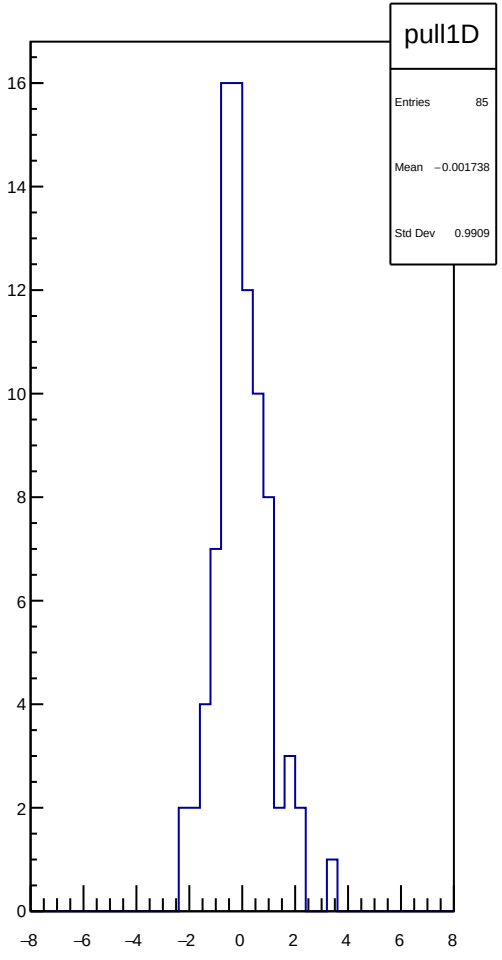

yield_bpm0r05X_rms vs run
χ² / ndf 1471 / 84
p0 0.07125 ± 5.607e–05
0.078
0.076
0.074
0.072
0.07
0.068
0.066

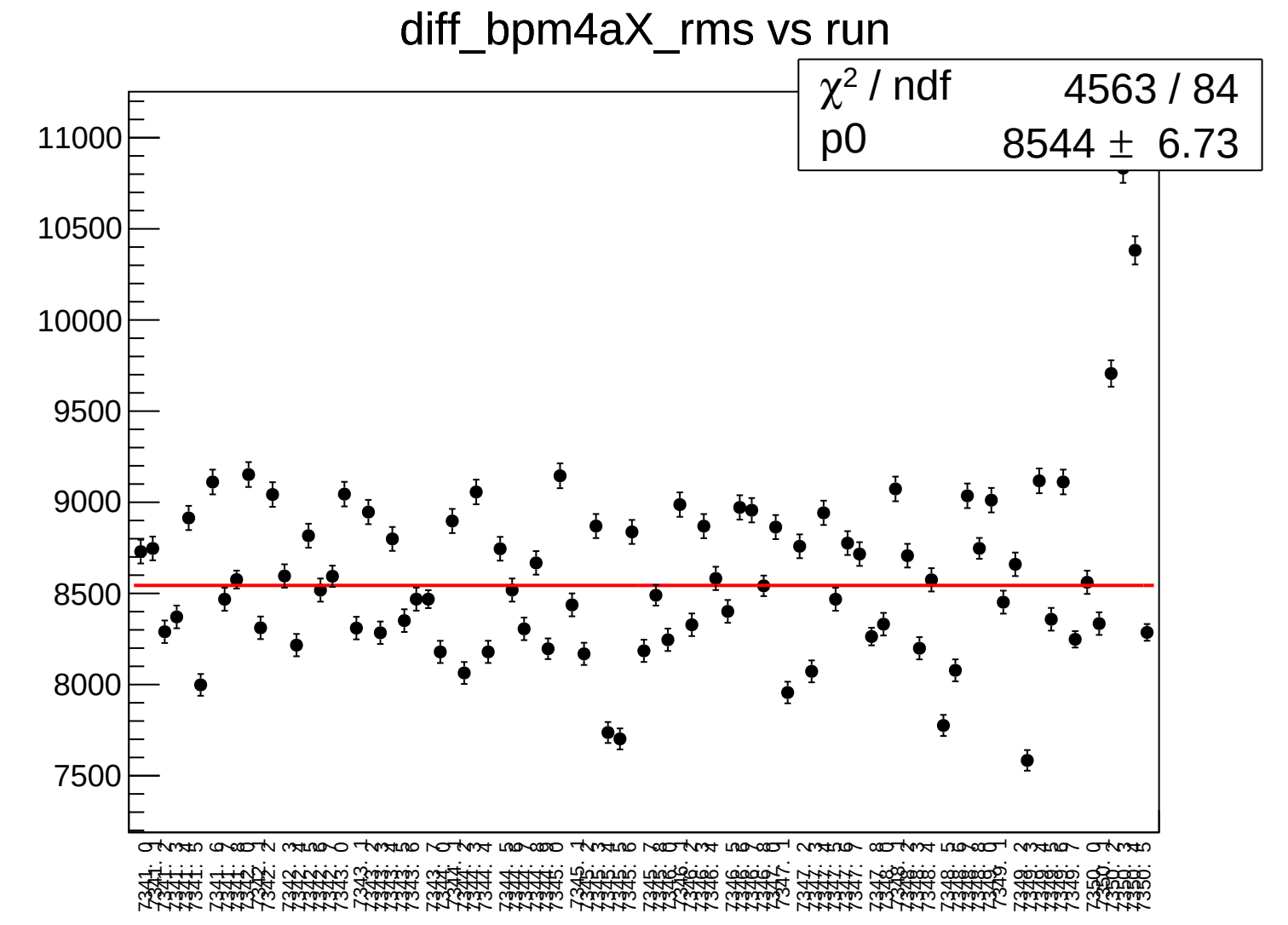

yield_bpm0r05Y_mean vs run
χ² / ndf 7.565e+05 / 84
p0 0.9365 ± 1.048e−05
0.96
0.95
0.94
0.93
0.92
0.91
0.9
pull
Entries 85
Mean −2802
Std Dev 0
200
100
0
−100
−200
−300
−400

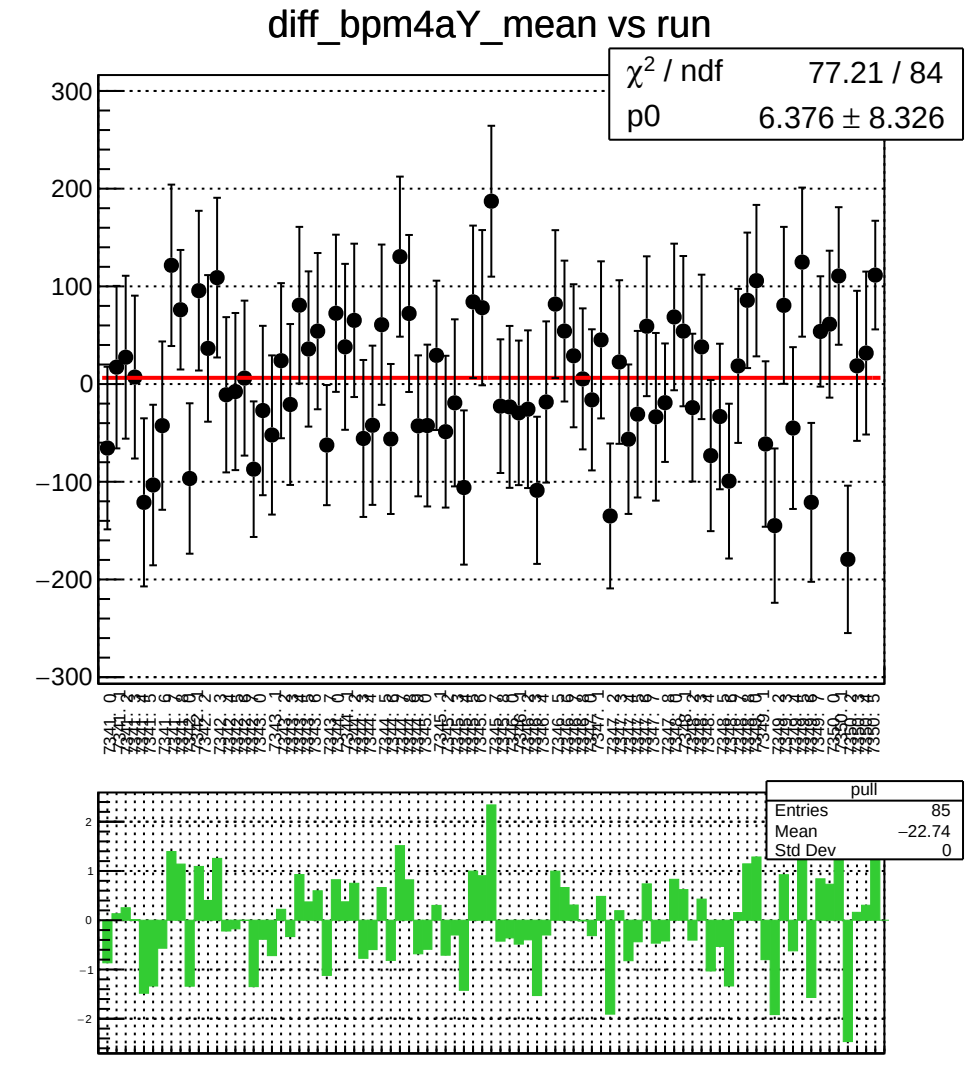

pull1D
Entries 85
Mean −1.449
Std Dev 4.056
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

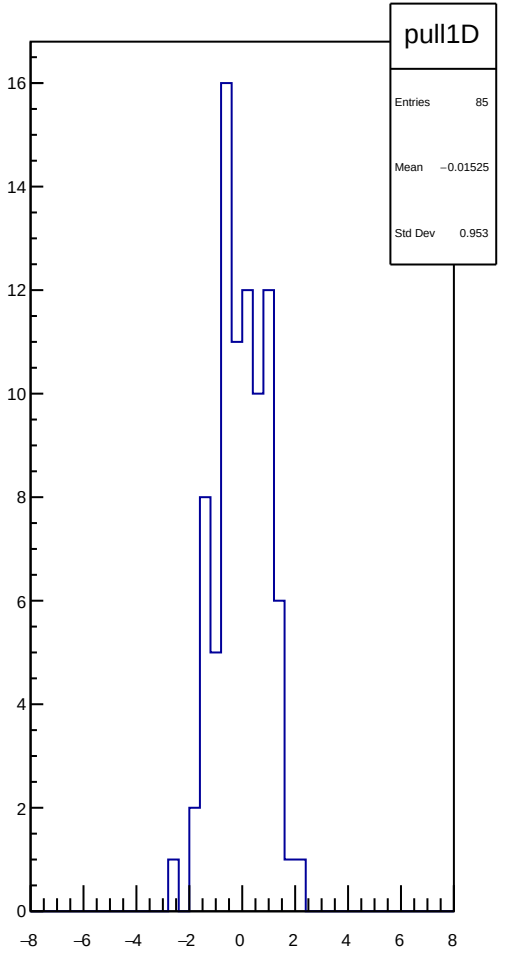

yield_bpm0r05Y_rms vs run
χ^2 / ndf 6.349e+04 / 84
p0 0.009237 ± 7.413e−06
0.025
0.02
0.015
0.01
0.005

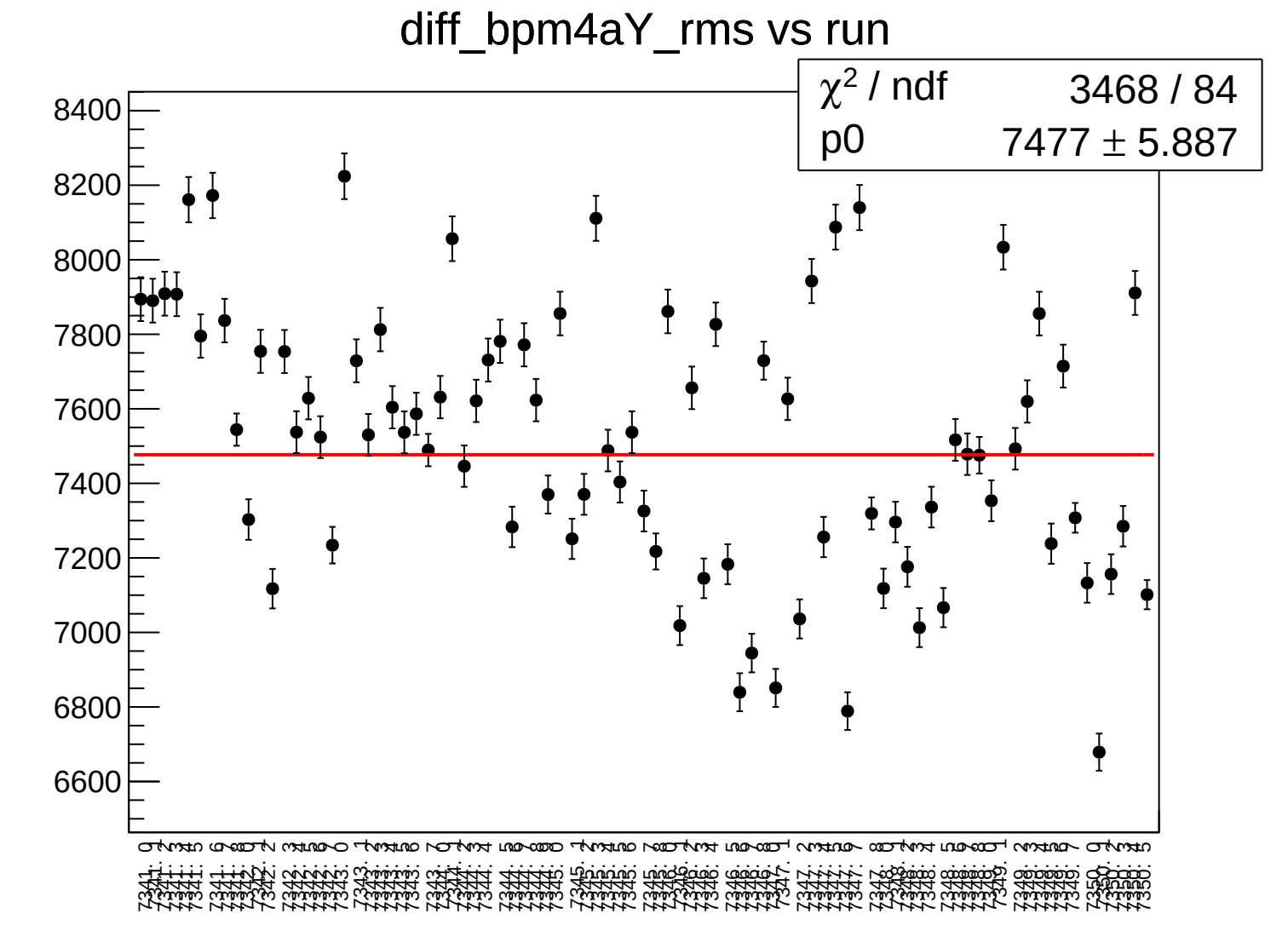

diff_bpm4aX_mean vs run
χ² / ndf 83.46 / 84
p0 −10.88 ± 9.517
pull
Entries 85
Mean −1984
Std Dev 0

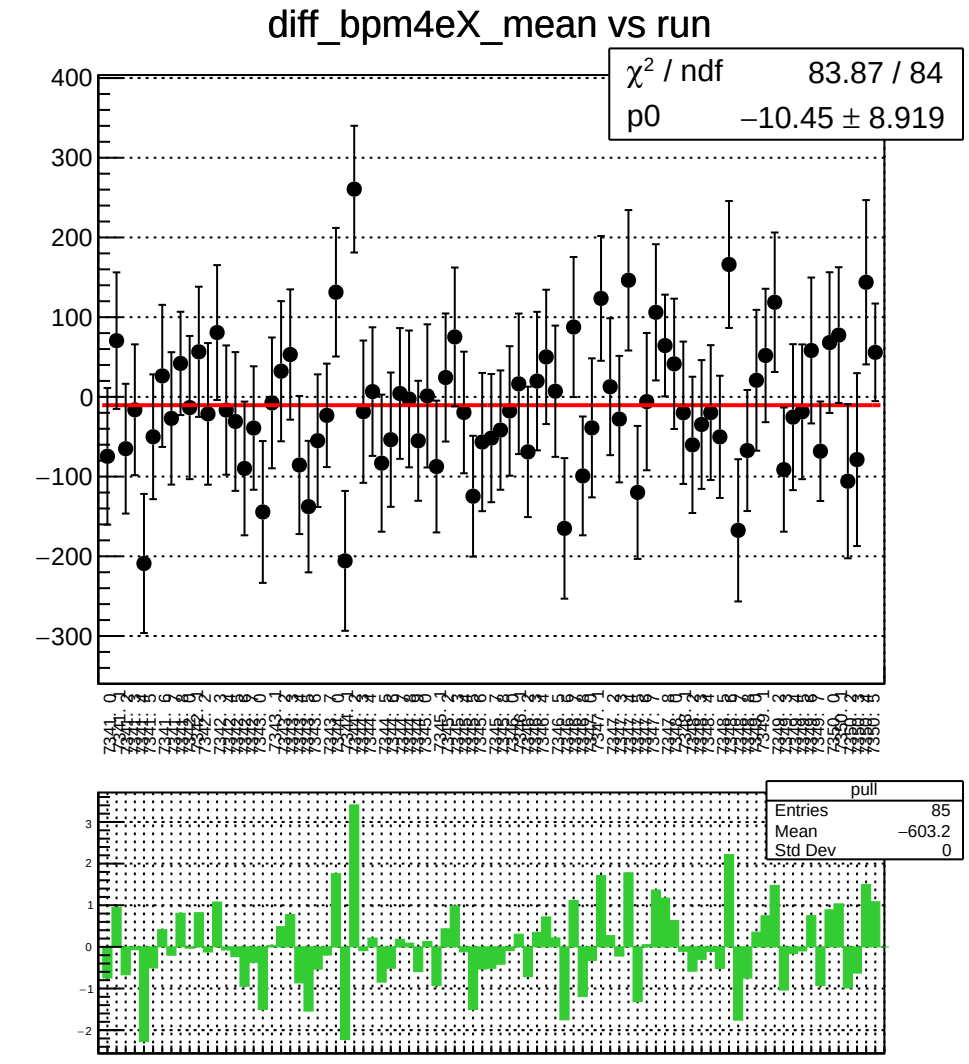

pull1D
Entries 85
Mean −0.001738
Std Dev 0.9909

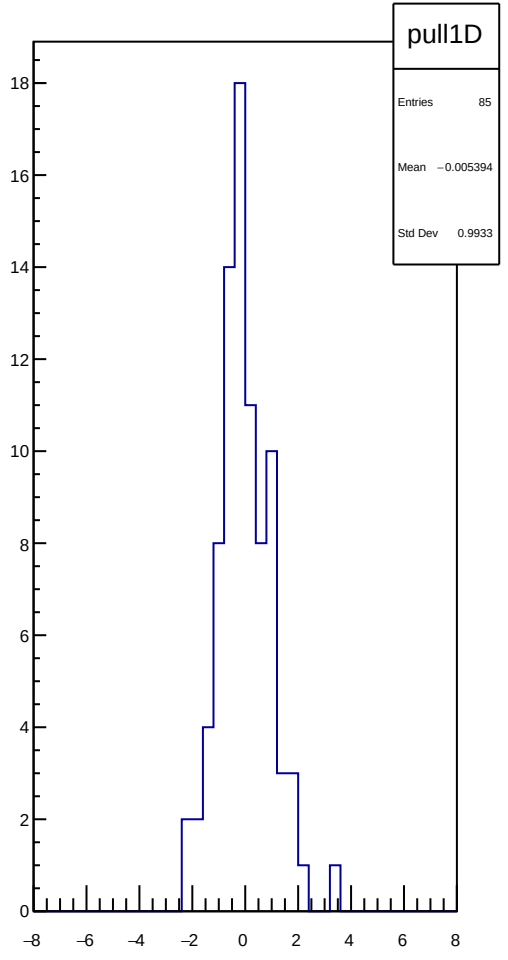

diff_bpm4aX_rms vs run
χ² / ndf 4563 / 84
p0 8544 ± 6.73
11000
10500
10000
9500
9000
8500
8000
7500

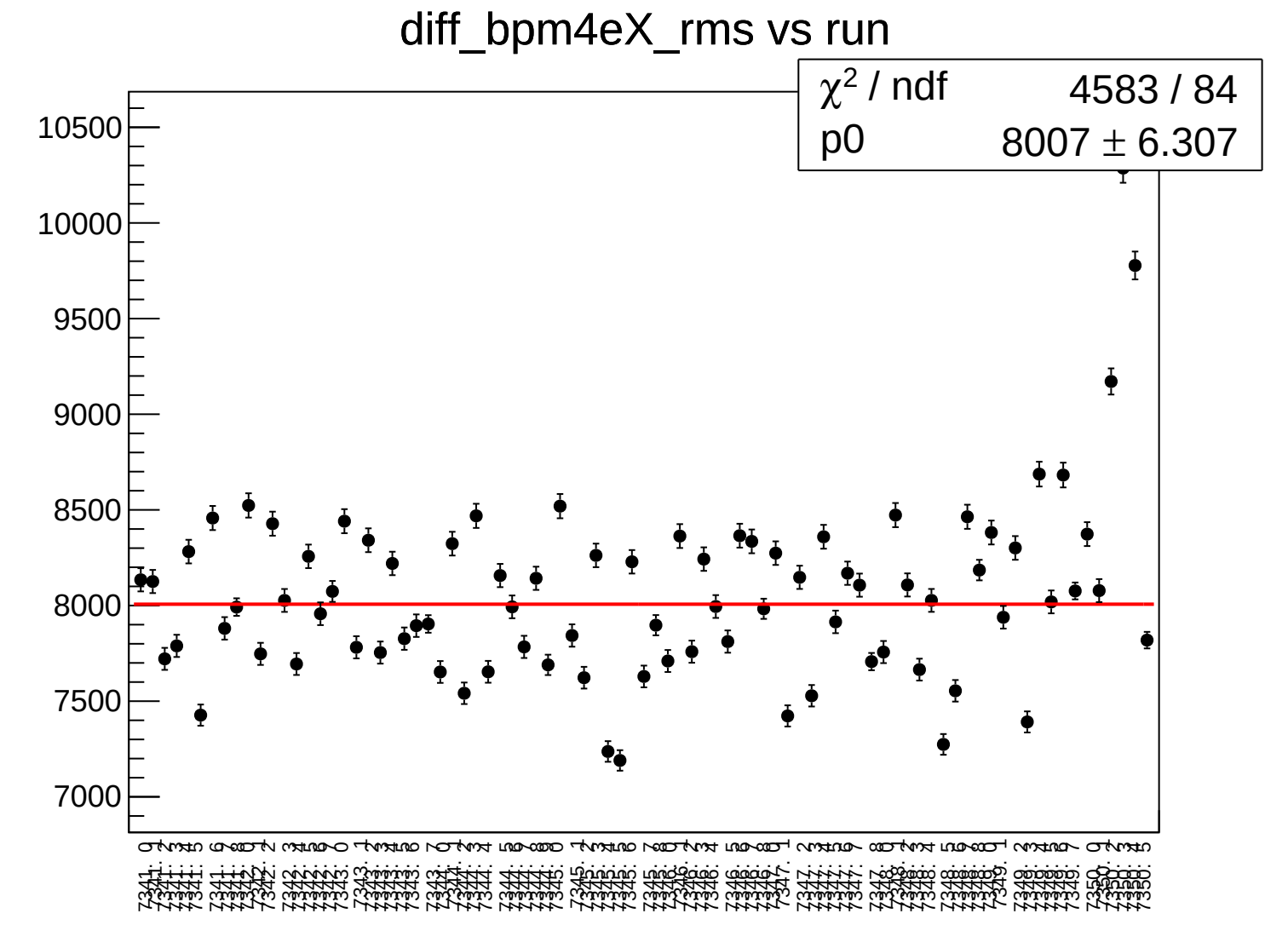

diff_bpm4aY_mean vs run
χ² / ndf 77.21 / 84
p0 6.376 ± 8.326
pull
Entries 85
Mean −22.74
Std Dev 0

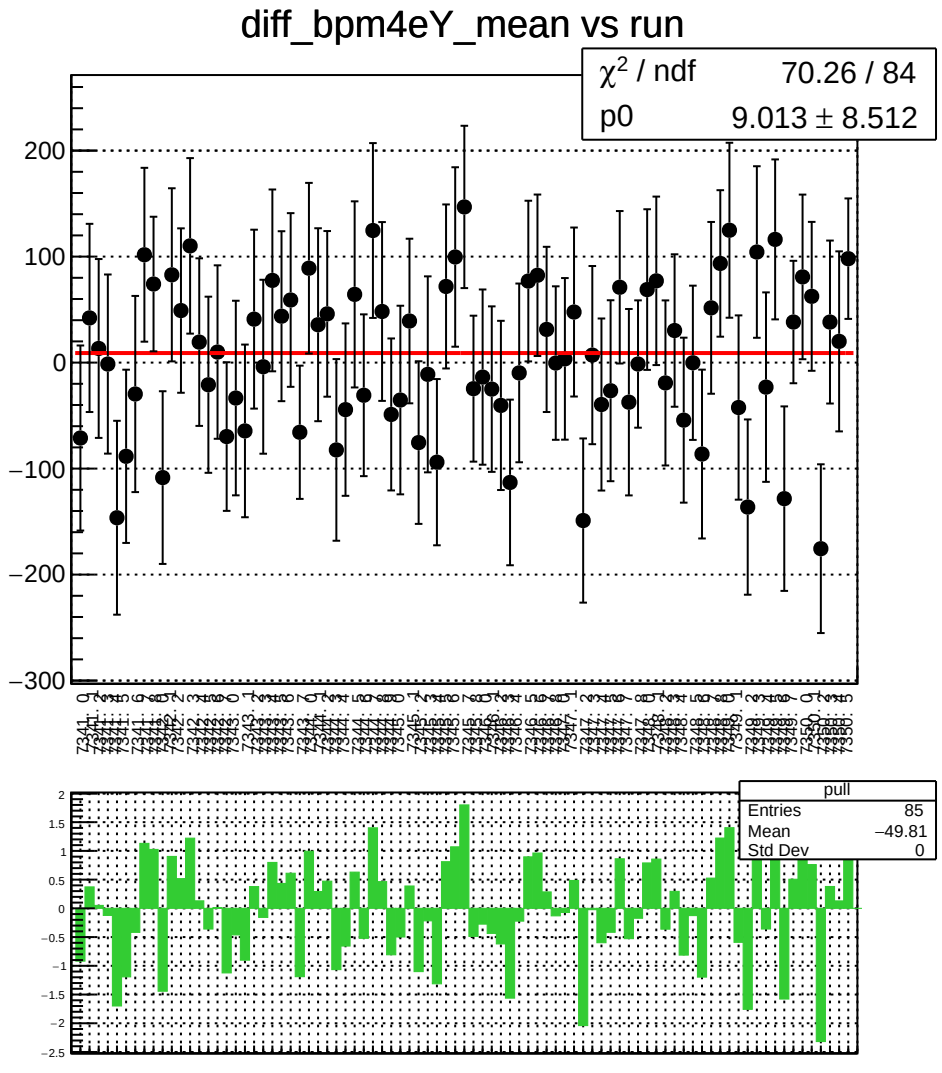

pull1D
Entries 85
Mean −0.01525
Std Dev 0.953

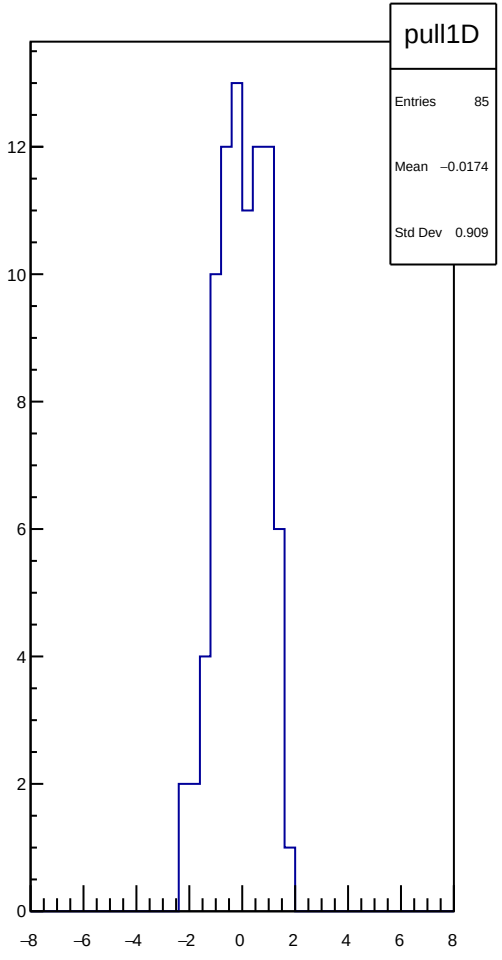

diff_bpm4aY_rms vs run
χ² / ndf 3468 / 84
p0 7477 ± 5.887
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

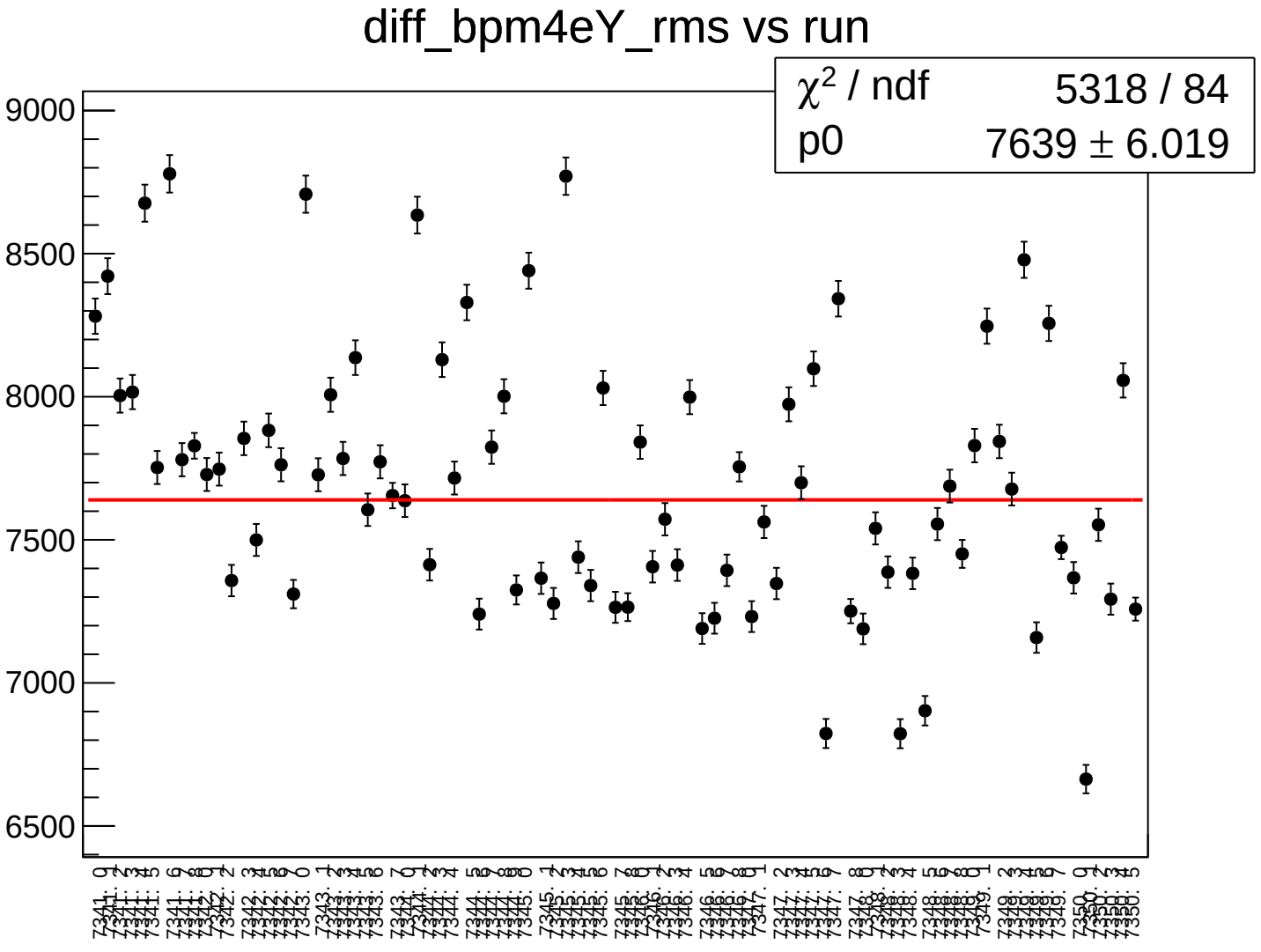

diff_bpm4eX_mean vs run
χ² / ndf 83.87 / 84
p0 −10.45 ± 8.919
pull
Entries 85
Mean −603.2
Std Dev 0

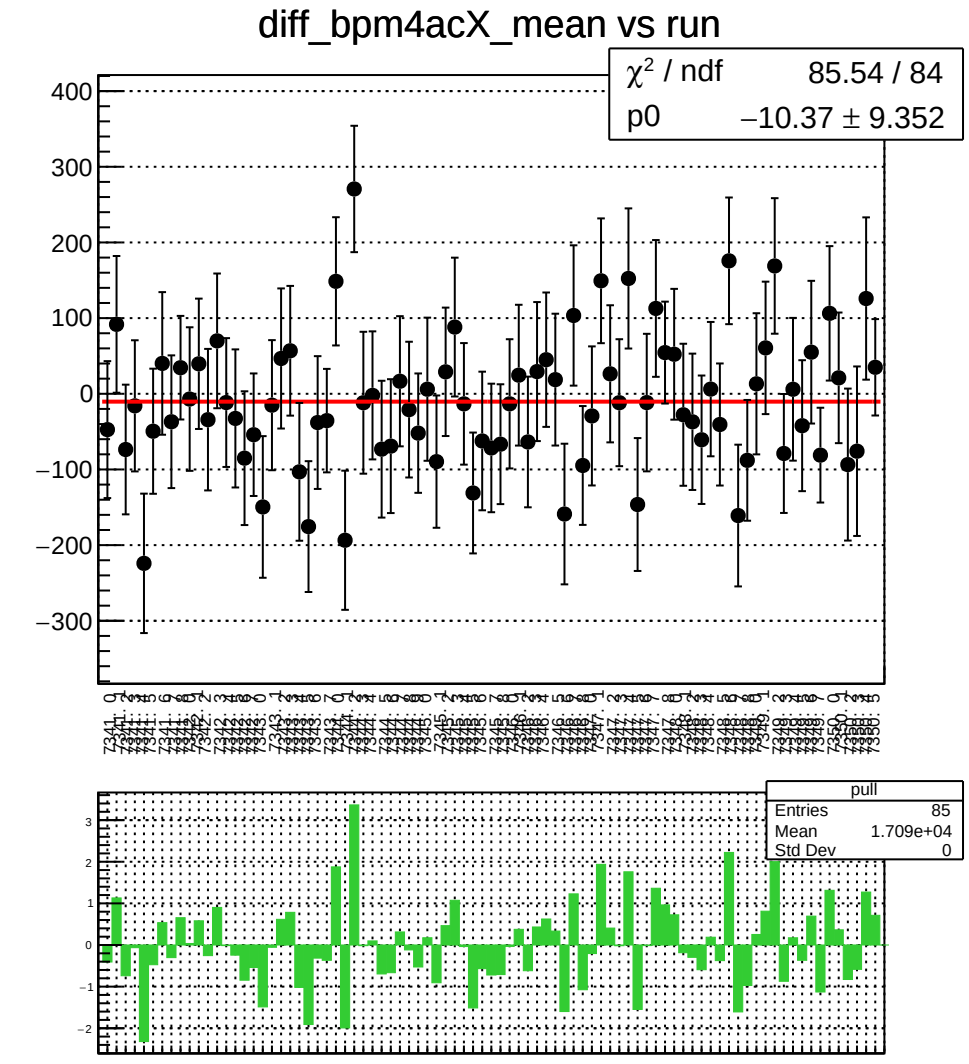

pull1D
Entries 85
Mean −0.005394
Std Dev 0.9933

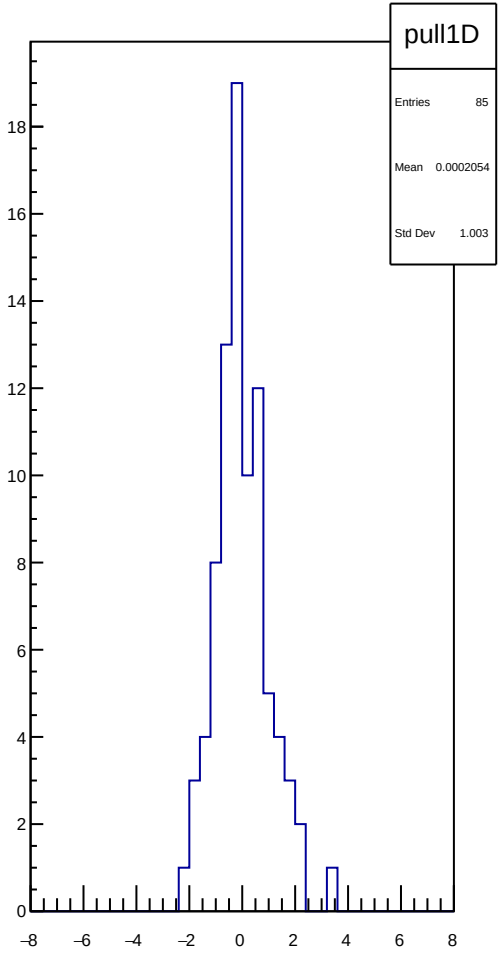

diff_bpm4eX_rms vs run
χ^2 / ndf 4583 / 84
p0 8007 ± 6.307
10500
10000
9500
9000
8500
8000
7500
7000

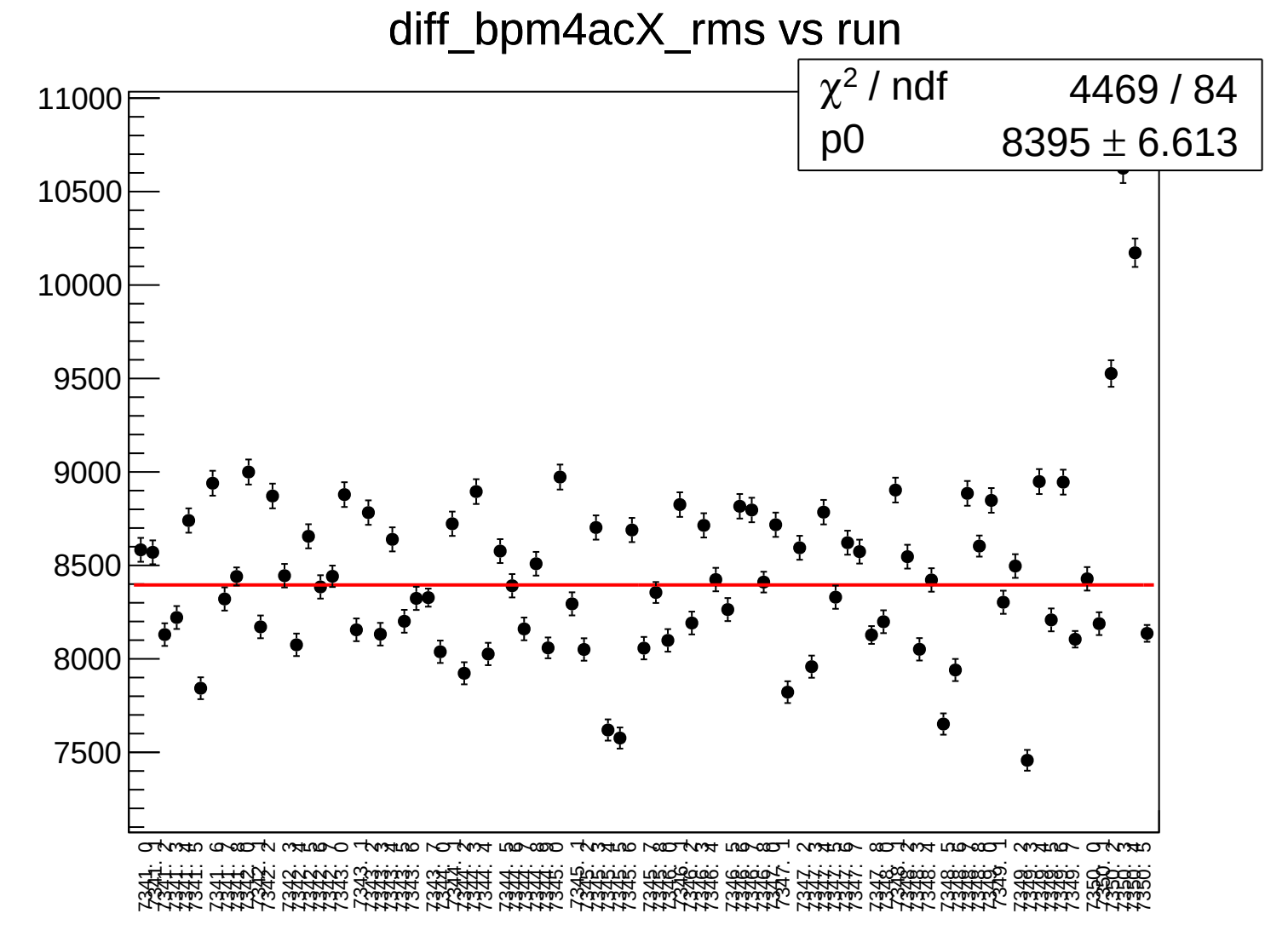

diff_bpm4eY_mean vs run
χ^2 / ndf 70.26 / 84
p0 9.013 ± 8.512
pull
Entries 85
Mean −49.81
Std Dev 0

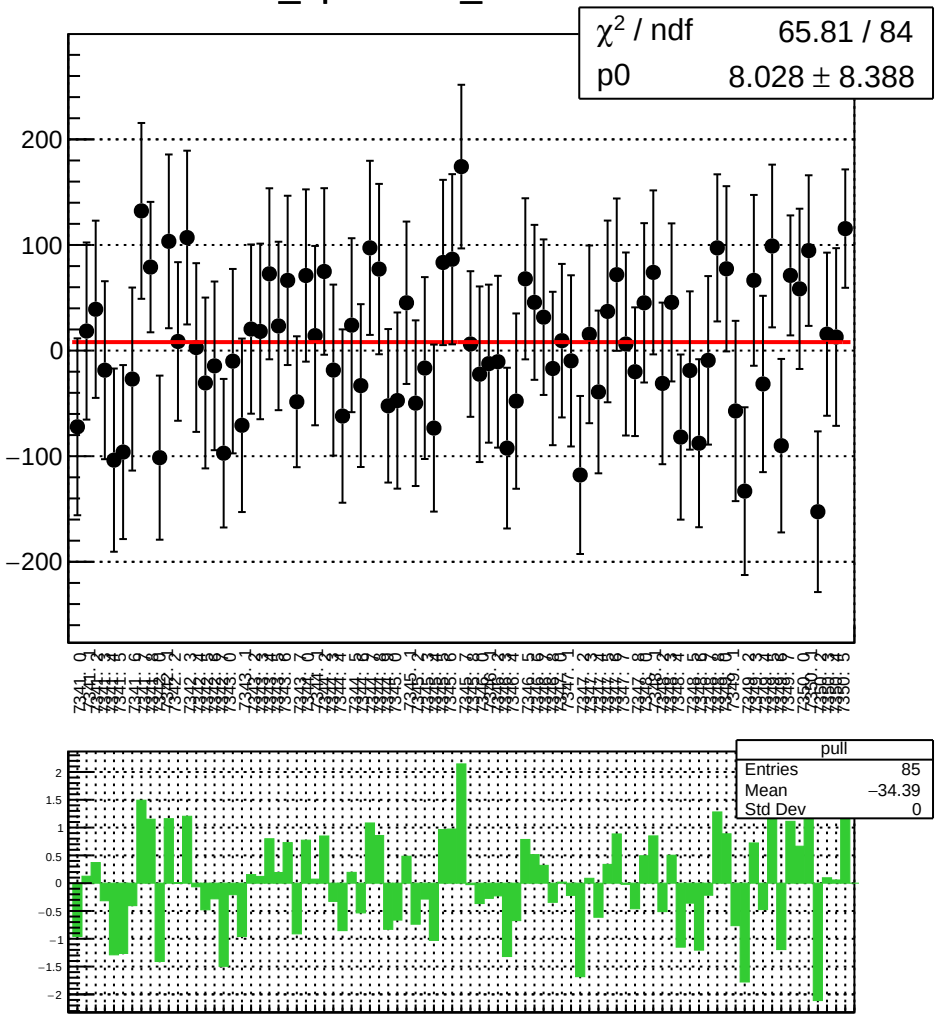

pull1D
Entries 85
Mean −0.0174
Std Dev 0.909

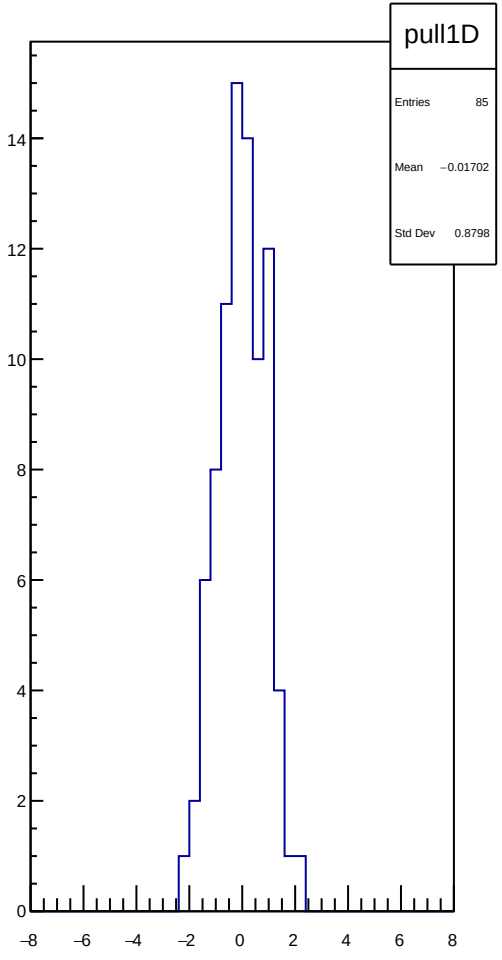

diff_bpm4eY_rms vs run
χ^2 / ndf 5318 / 84
p0 7639 ± 6.019
9000
8500
8000
7500
7000
6500

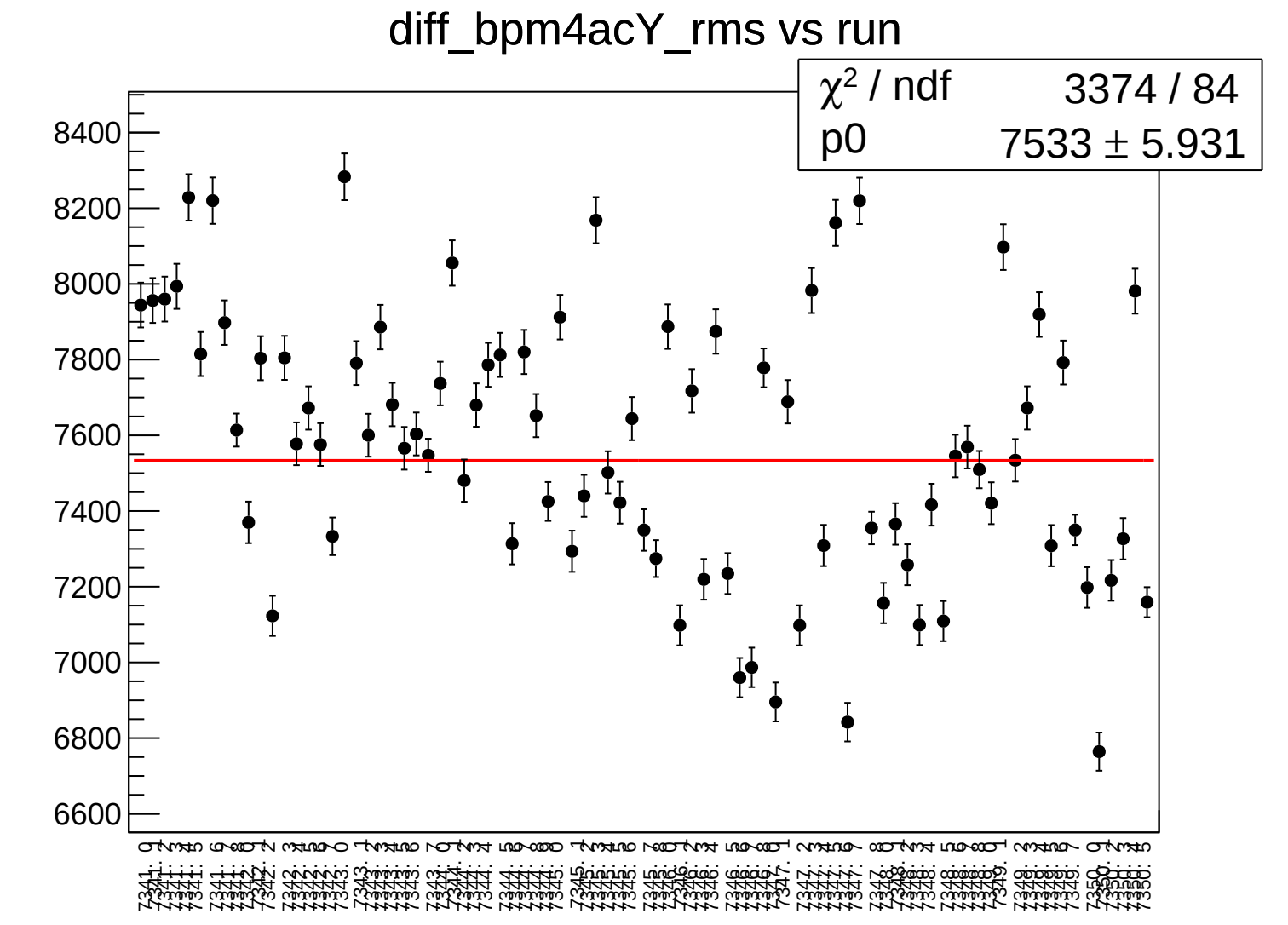

diff_bpm4acX_mean vs run
χ² / ndf 85.54 / 84
p0 −10.37 ± 9.352
pull
Entries 85
Mean 1.709e+04
Std Dev 0

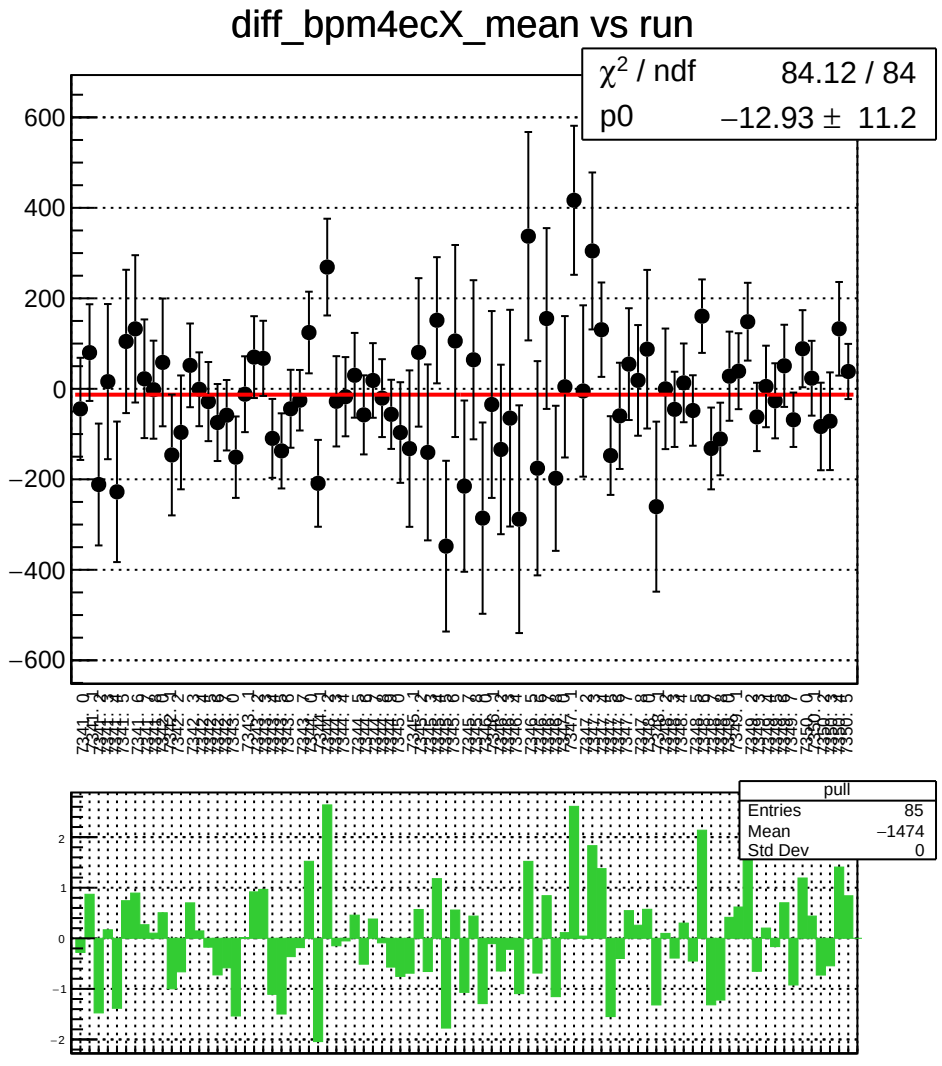

pull1D
Entries 85
Mean 0.0002054
Std Dev 1.003

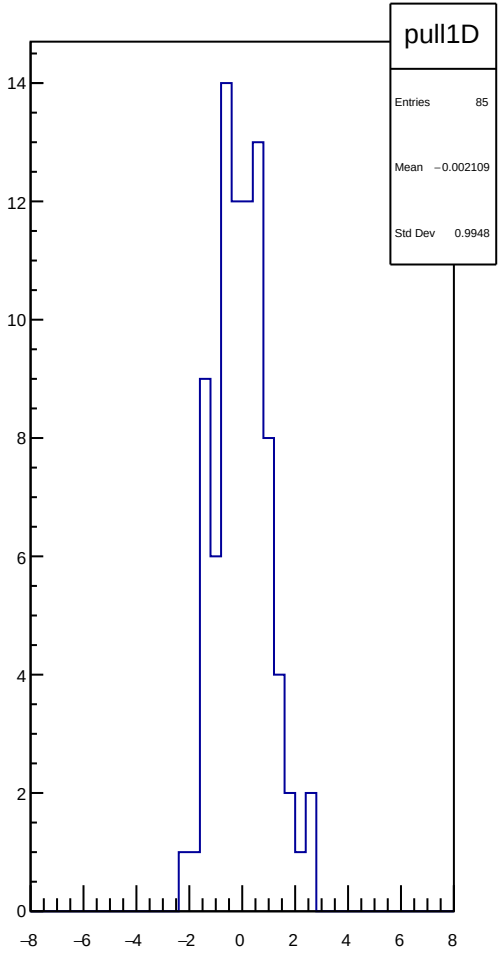

diff_bpm4acX_rms vs run
χ² / ndf 4469 / 84
p0 8395 ± 6.613
11000
10500
10000
9500
9000
8500
8000
7500

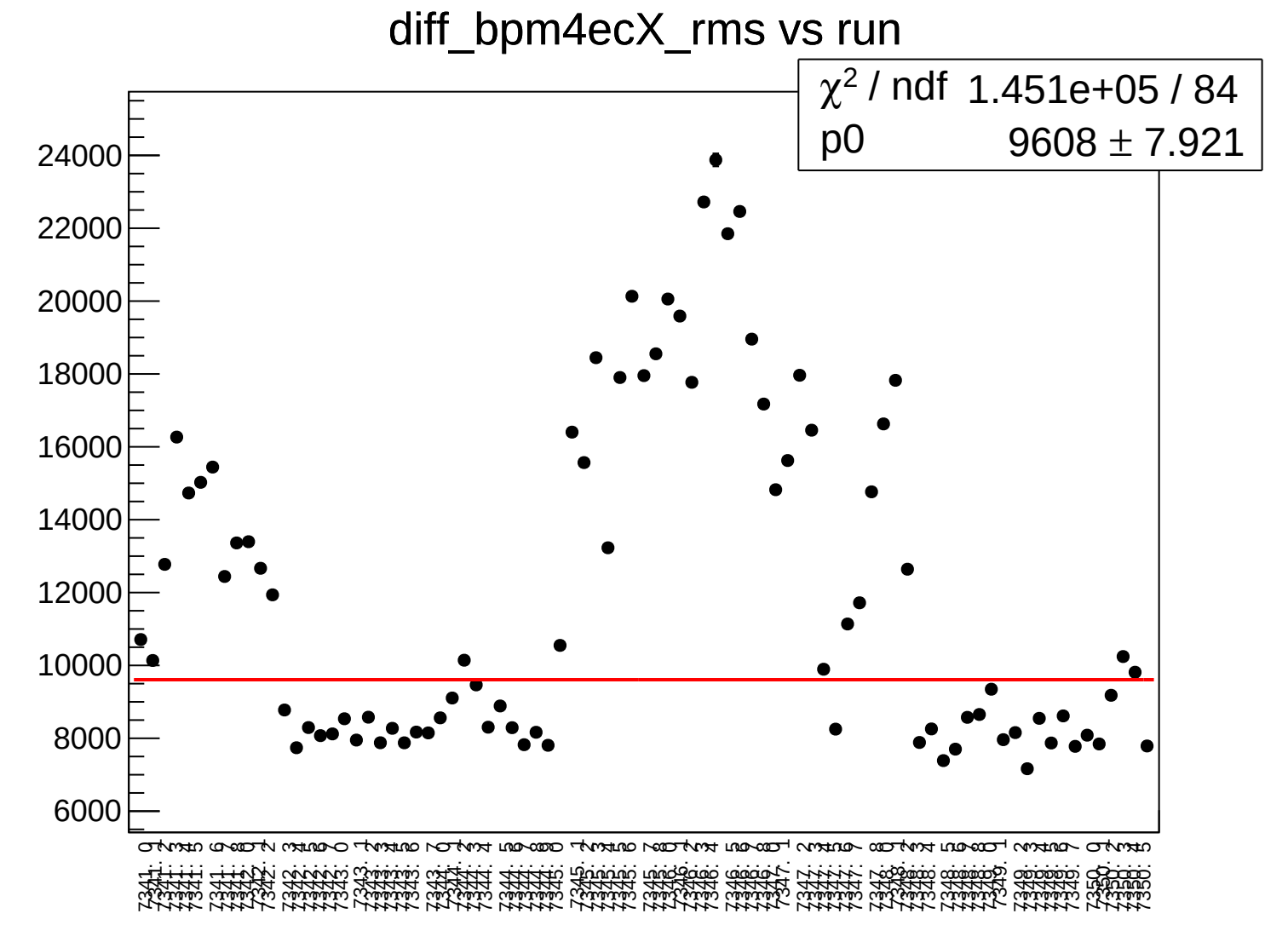

diff_bpm4acY_mean vs run
χ² / ndf 65.81 / 84
p0 8.028 ± 8.388
200
100
0
−100
−200
pull
Entries 85
Mean −34.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

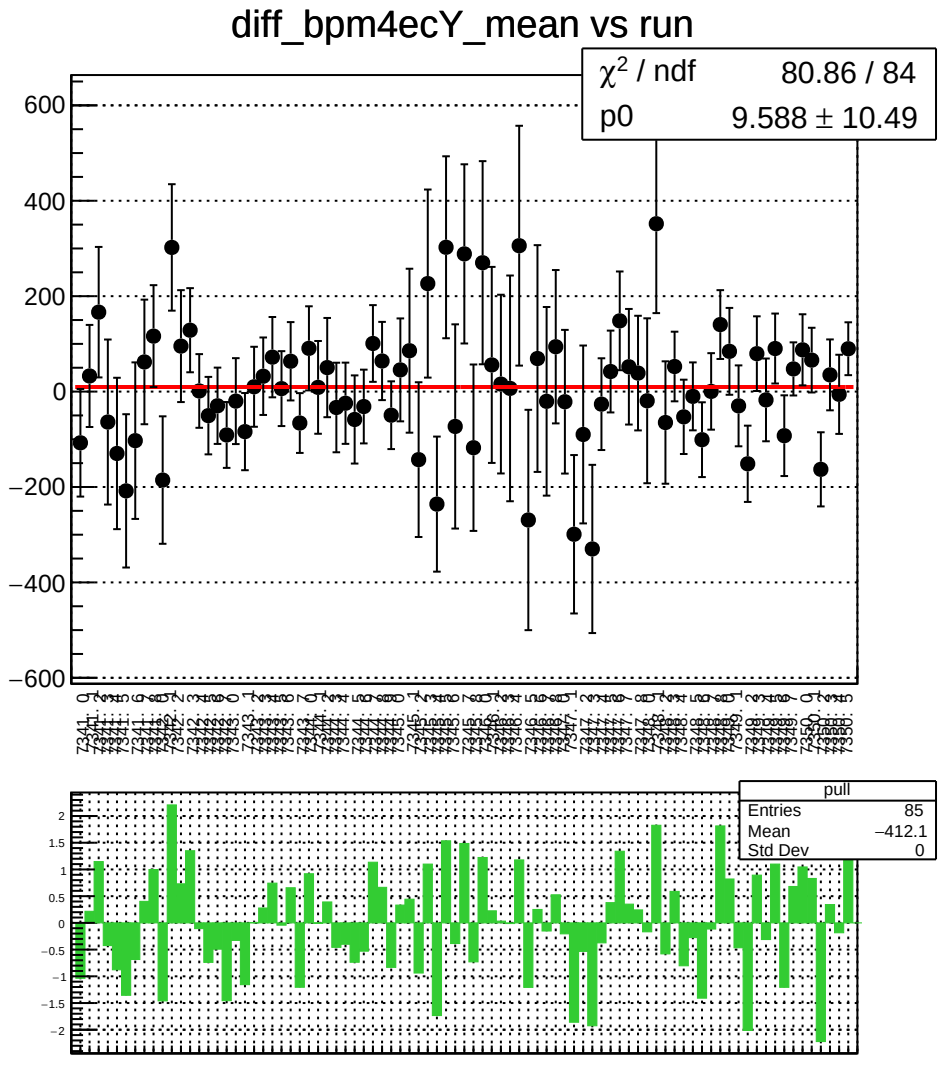

pull1D
Entries 85
Mean −0.01702
Std Dev 0.8798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

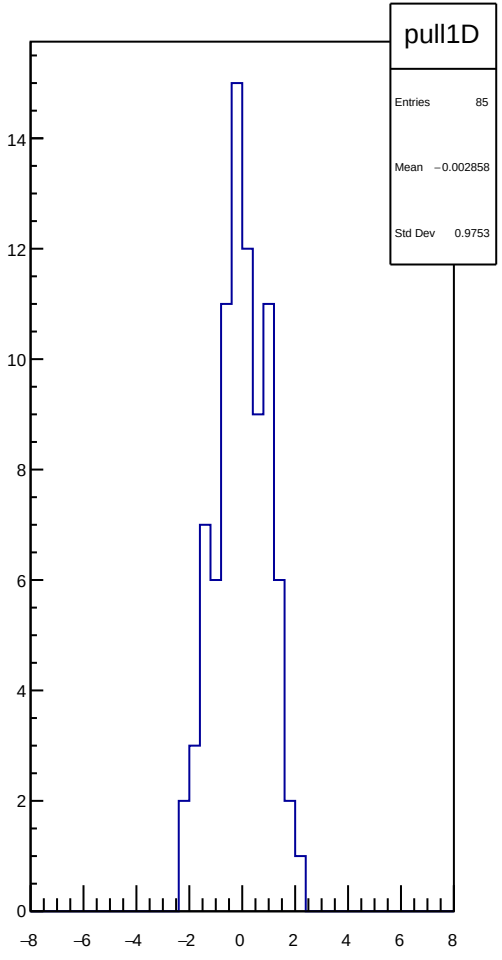

diff_bpm4acY_rms vs run
χ² / ndf 3374 / 84
p0 7533 ± 5.931
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

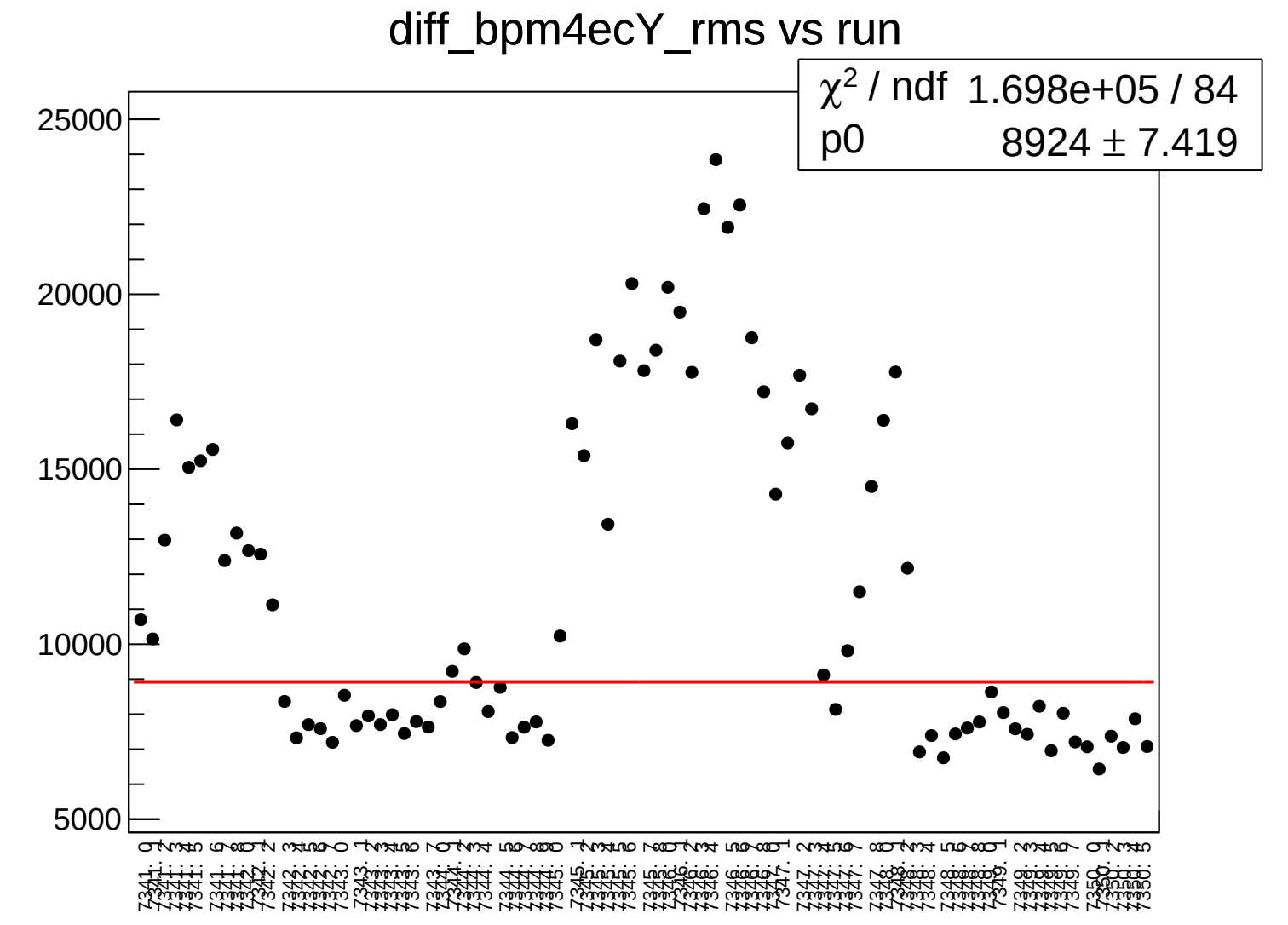

diff_bpm4ecX_mean vs run
χ² / ndf 84.12 / 84
p0 −12.93 ± 11.2
pull
Entries 85
Mean −1474
Std Dev 0

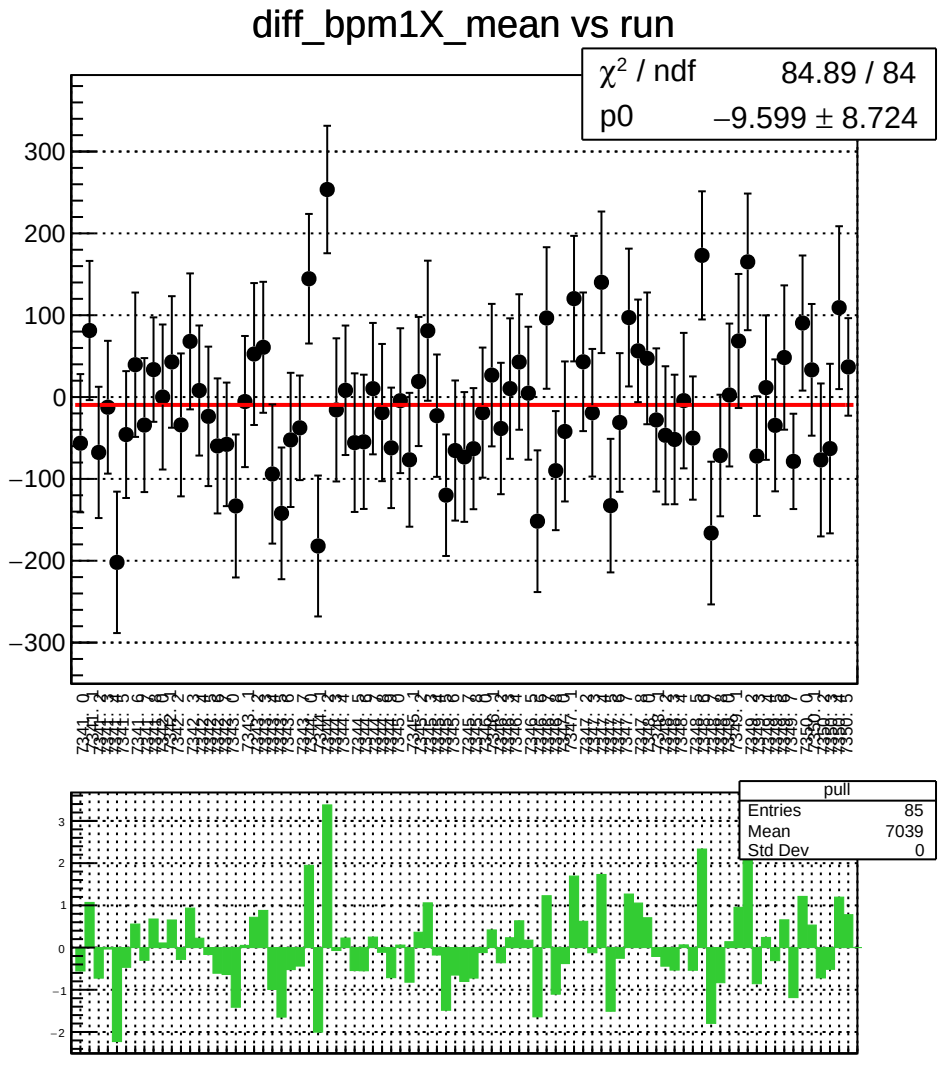

pull1D
Entries 85
Mean −0.002109
Std Dev 0.9948

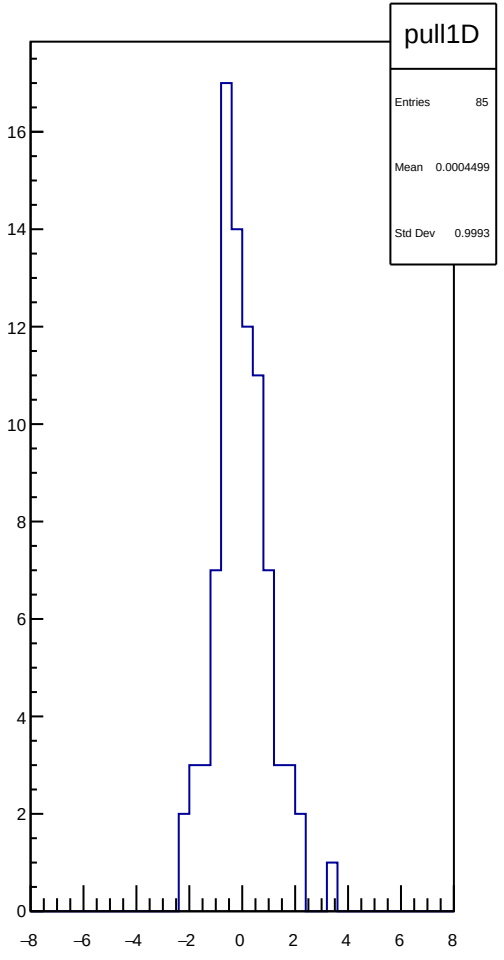

diff_bpm4ecX_rms vs run
χ² / ndf 1.451e+05 / 84
p0 9608 ± 7.921
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000

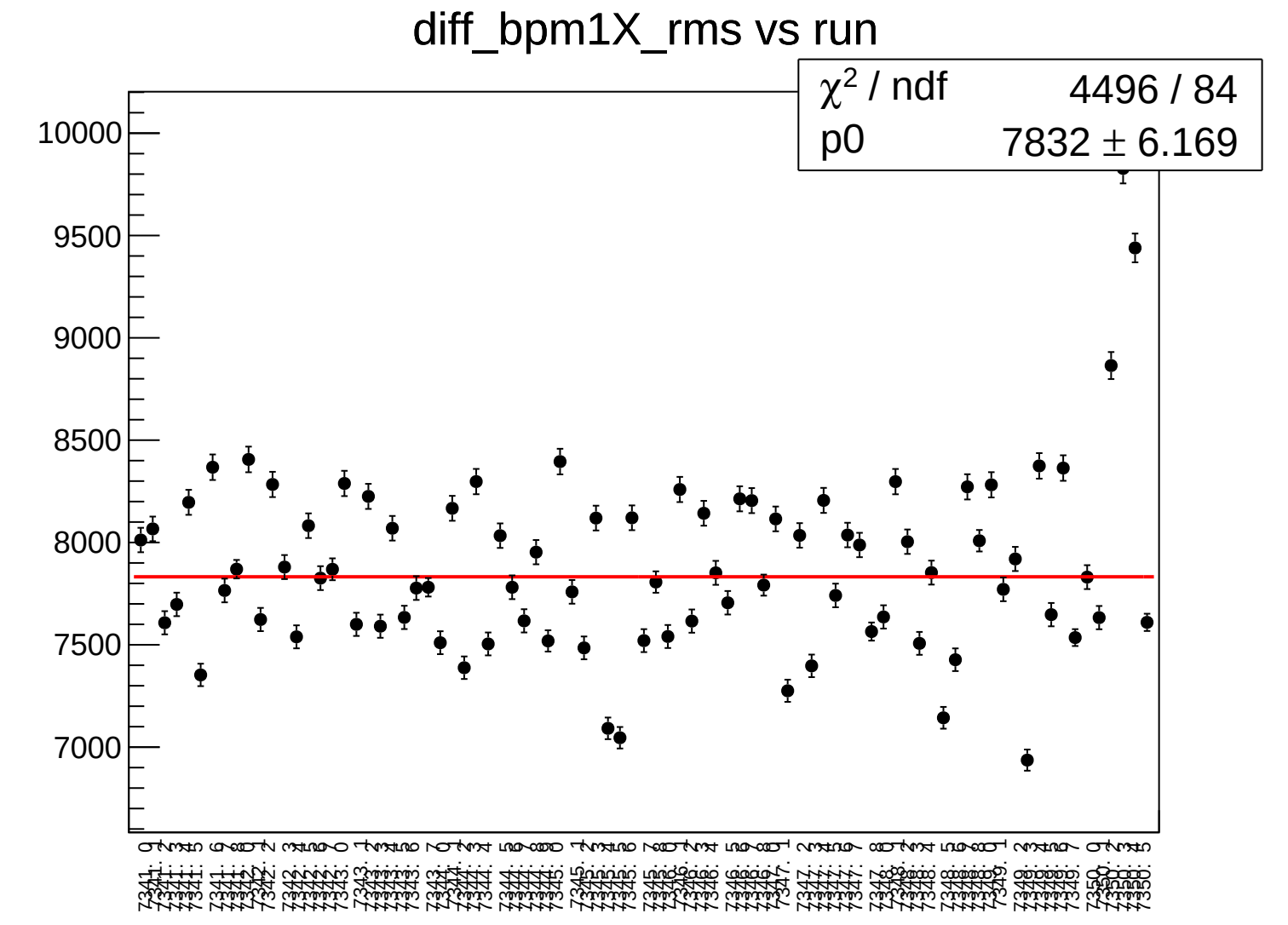

diff_bpm4ecY_mean vs run
χ^2 / ndf 80.86 / 84
p0 9.588 ± 10.49
pull
Entries 85
Mean −412.1
Std Dev 0

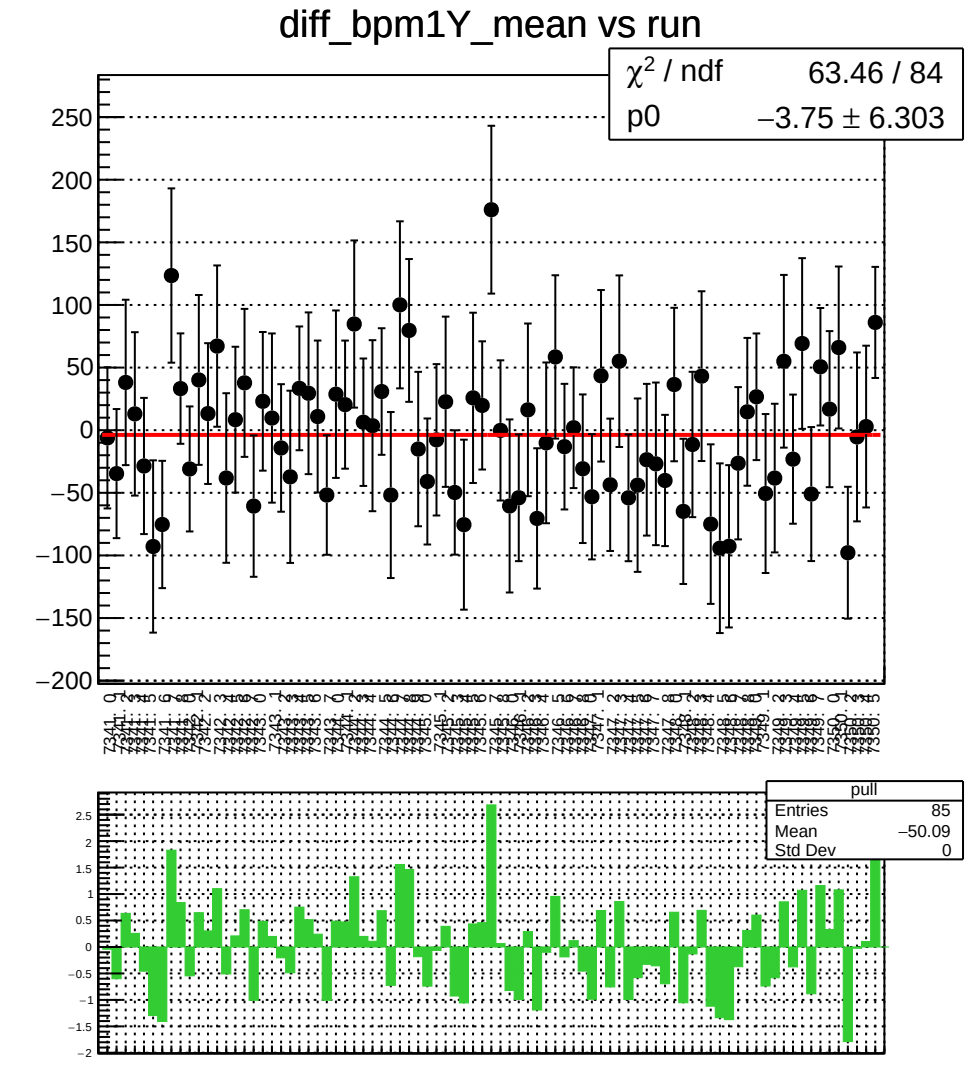

pull1D
Entries 85
Mean −0.002858
Std Dev 0.9753

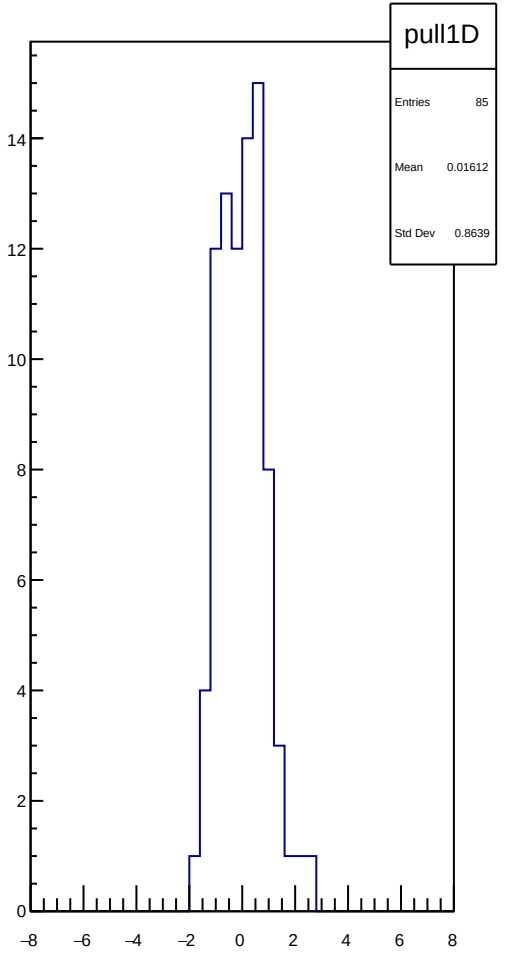

diff_bpm4ecY_rms vs run
χ² / ndf 1.698e+05 / 84
p0 8924 ± 7.419
25000
20000
15000
10000
5000

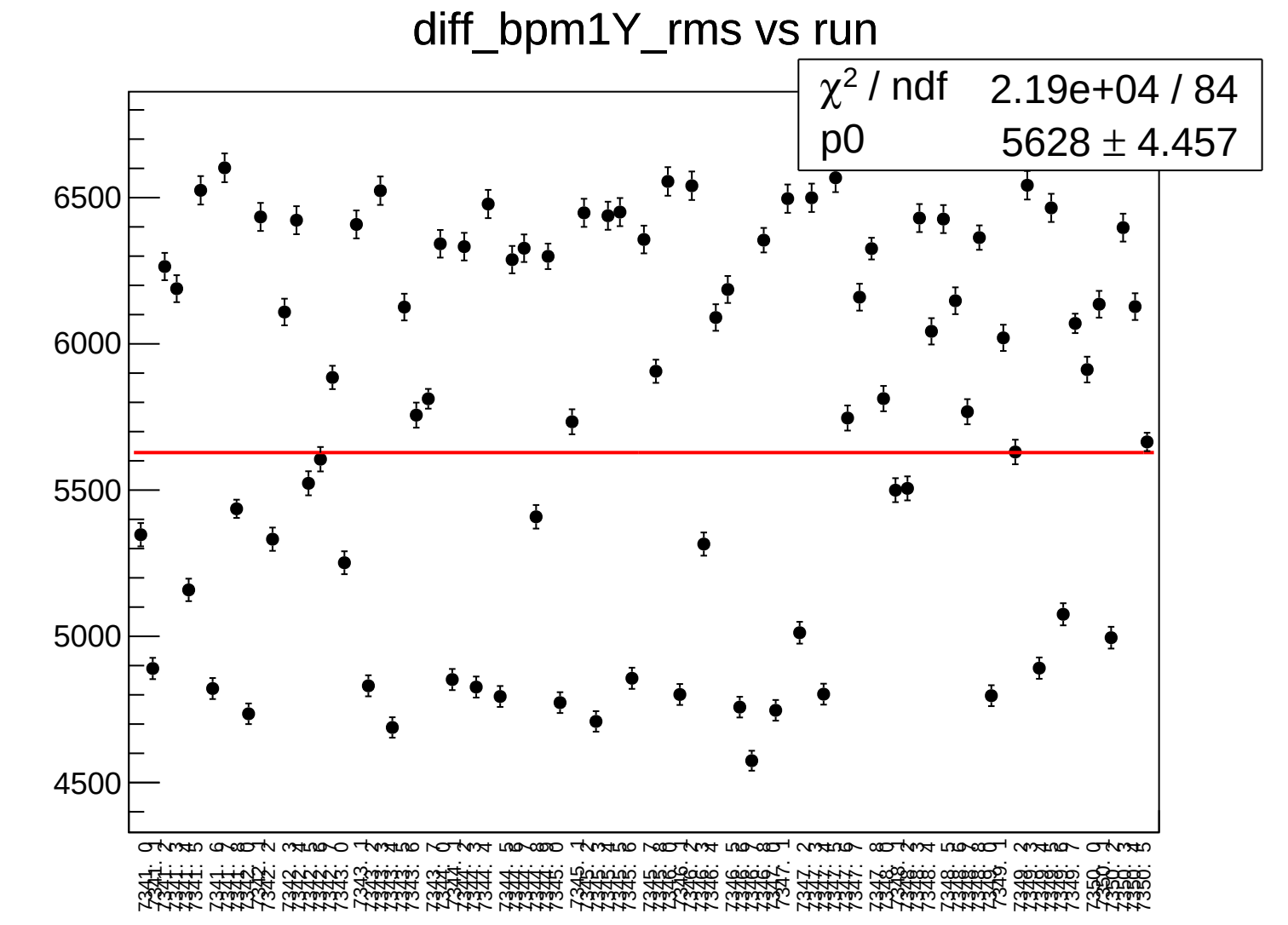

diff_bpm1X_mean vs run
χ² / ndf 84.89 / 84
p0 −9.599 ± 8.724
pull
Entries 85
Mean 7039
Std Dev 0

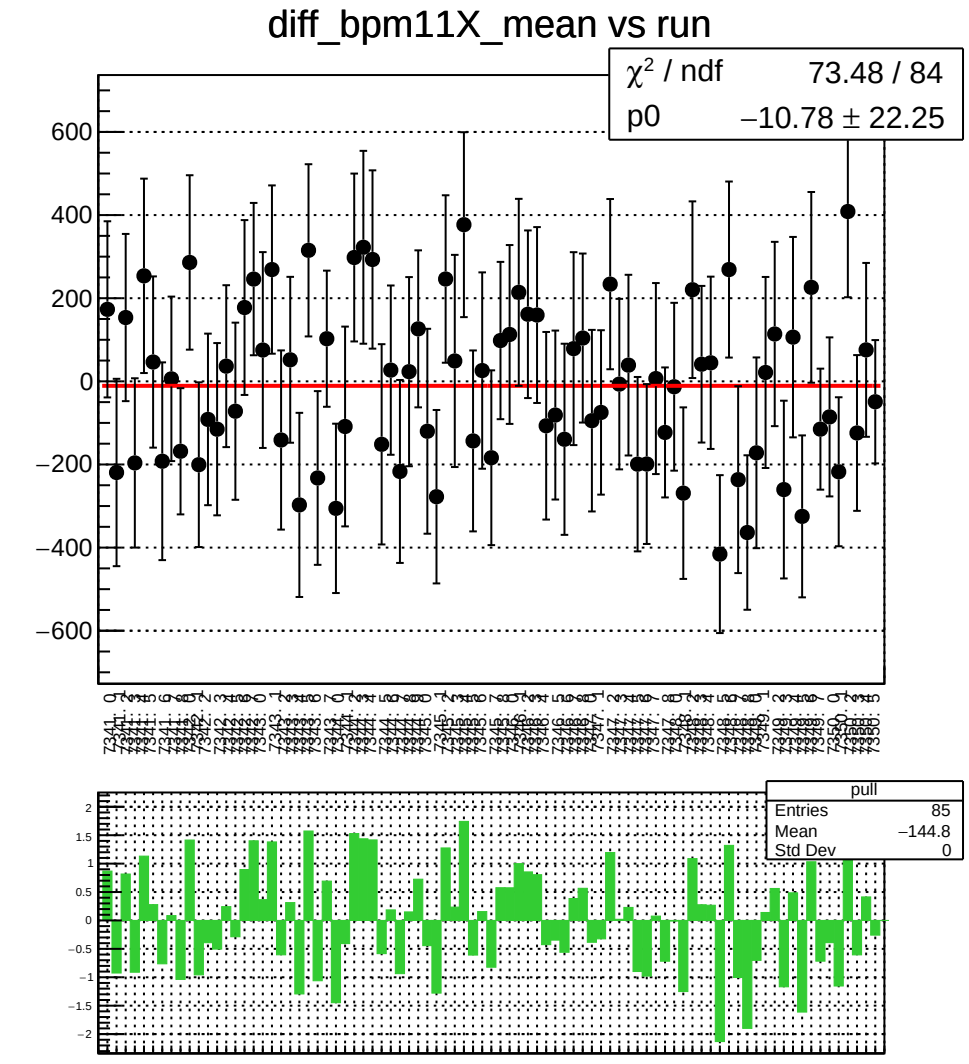

pull1D
Entries 85
Mean 0.0004499
Std Dev 0.9993

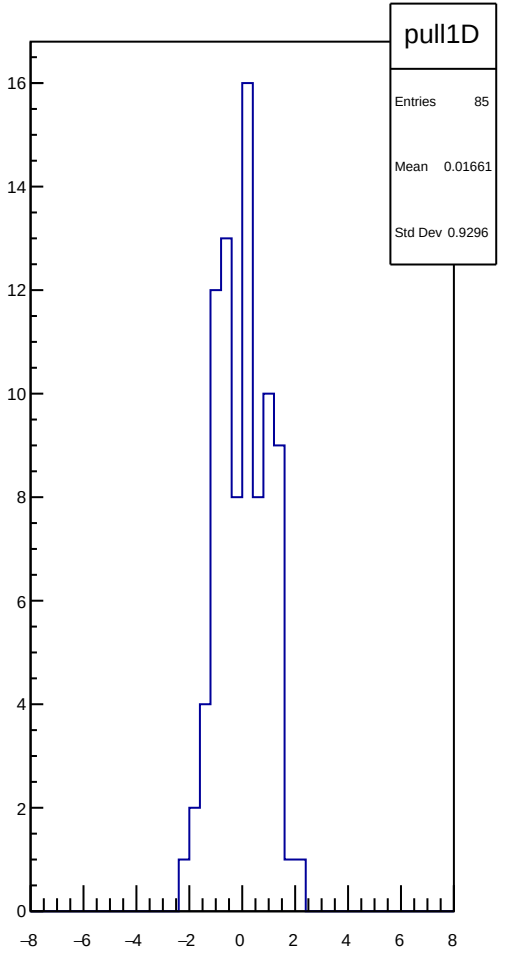

diff_bpm1X_rms vs run
χ^2 / ndf 4496 / 84
p0 7832 ± 6.169
10000
9500
9000
8500
8000
7500
7000

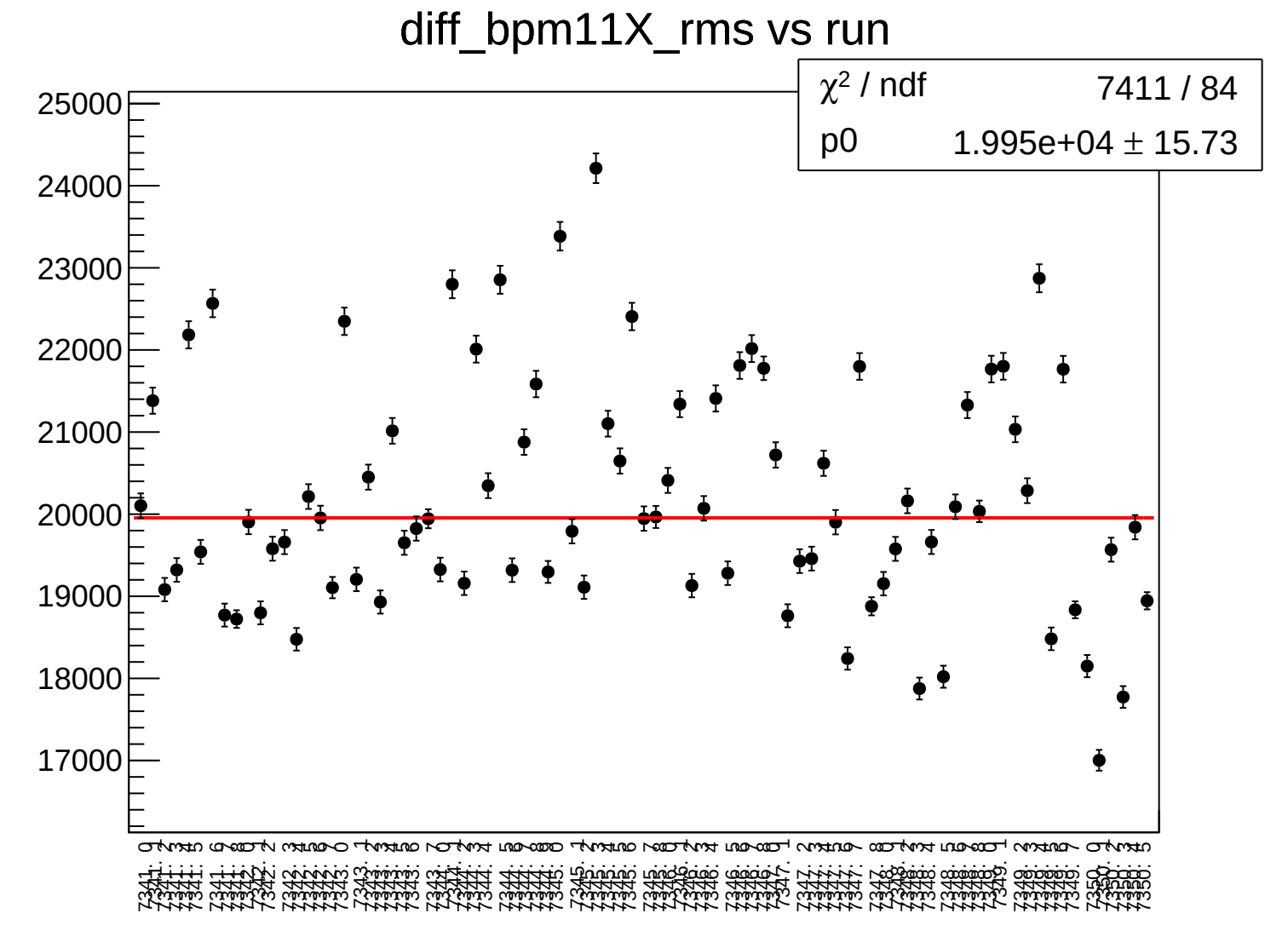

diff_bpm1Y_mean vs run
χ² / ndf 63.46 / 84
p0 −3.75 ± 6.303
pull
Entries 85
Mean −50.09
Std Dev 0

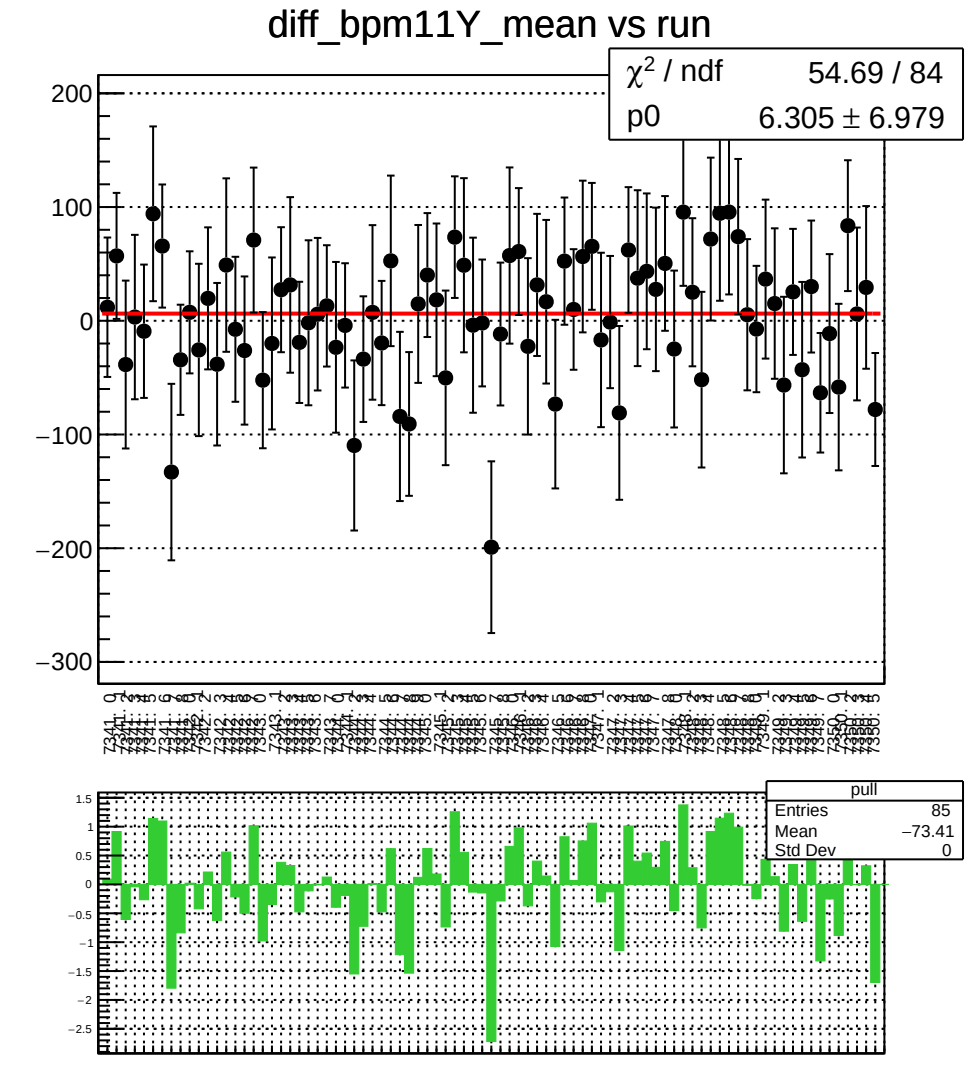

pull1D
Entries 85
Mean 0.01612
Std Dev 0.8639

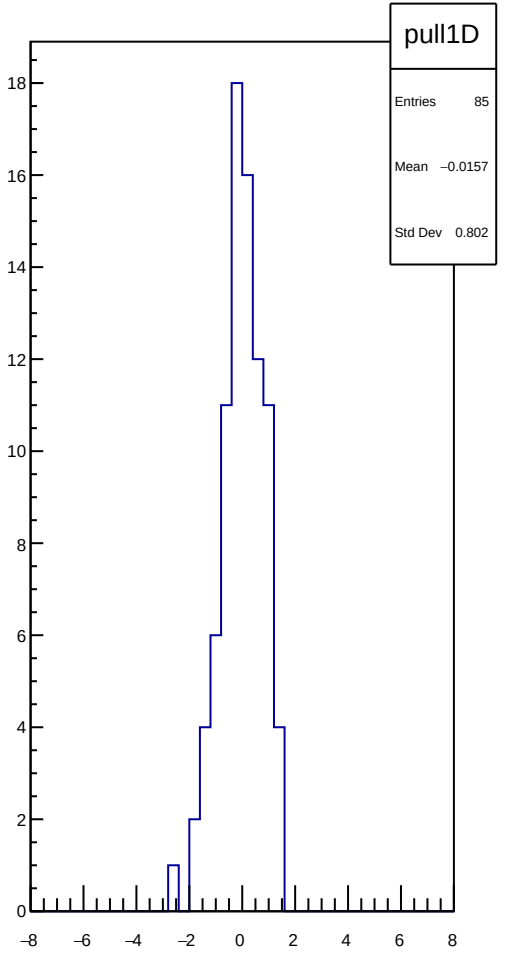

diff_bpm1Y_rms vs run
χ² / ndf 2.19e+04 / 84
p0 5628 ± 4.457
6500
6000
5500
5000
4500

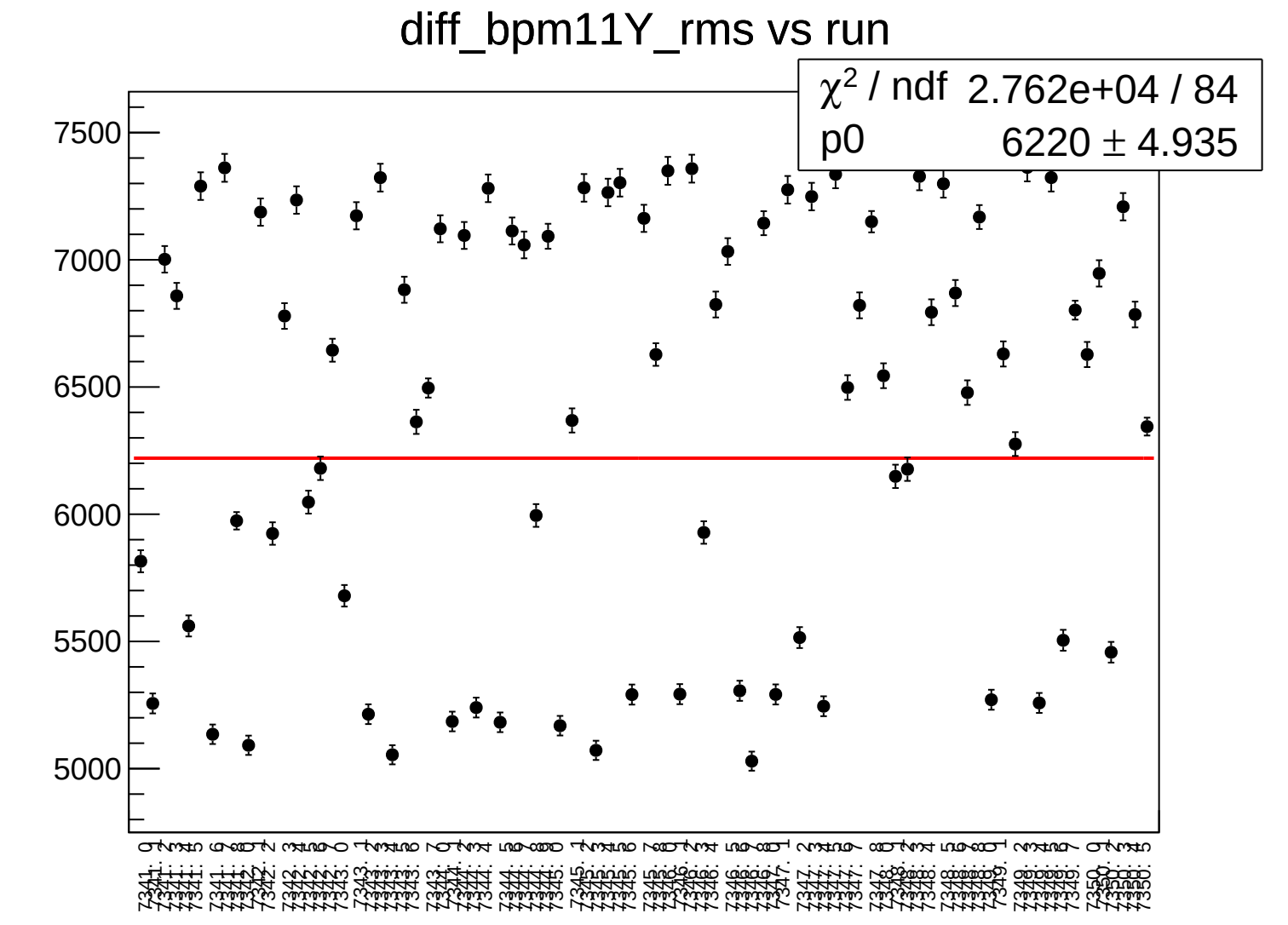

diff_bpm11X_mean vs run
χ² / ndf 73.48 / 84
p0 −10.78 ± 22.25
600
400
200
0
−200
−400
−600
pull
Entries 85
Mean −144.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

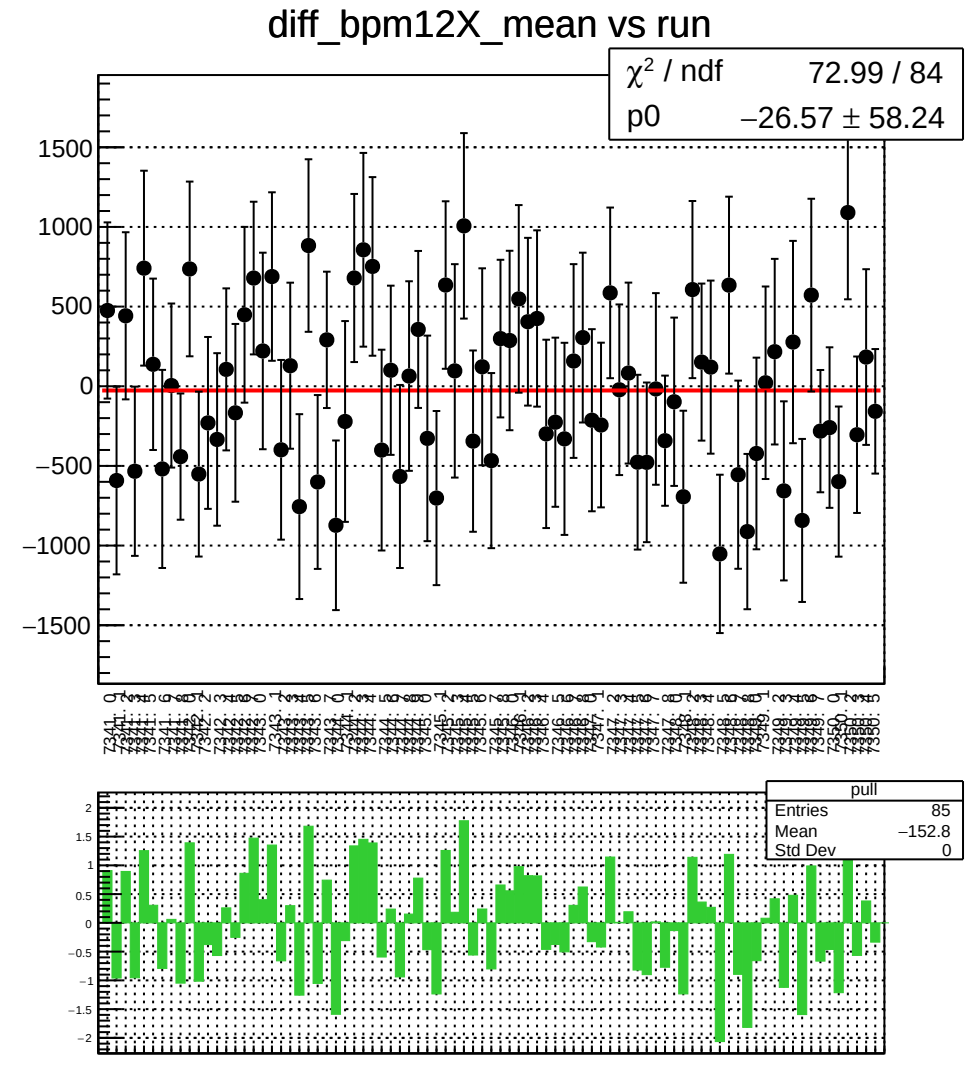

pull1D
Entries 85
Mean 0.01661
Std Dev 0.9296
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

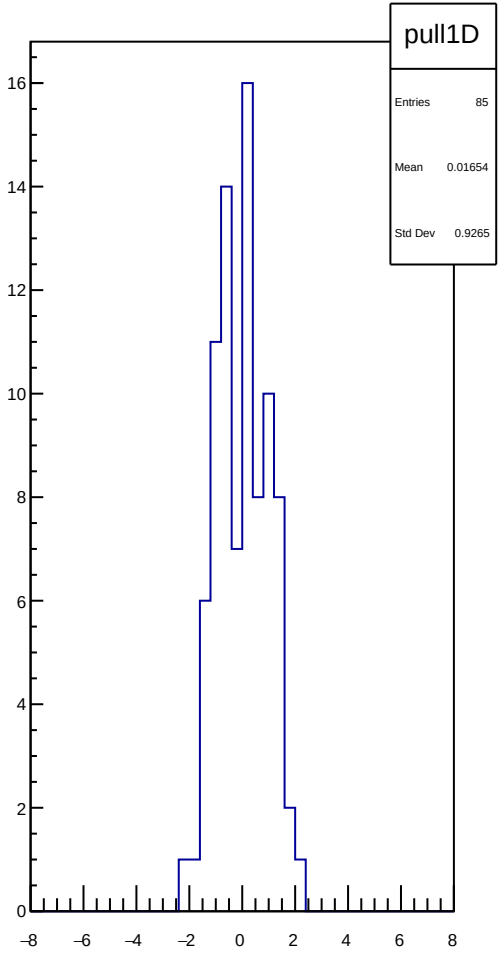

diff_bpm11X_rms vs run
χ² / ndf 7411 / 84
p0 1.995e+04 ± 15.73
25000
24000
23000
22000
21000
20000
19000
18000
17000

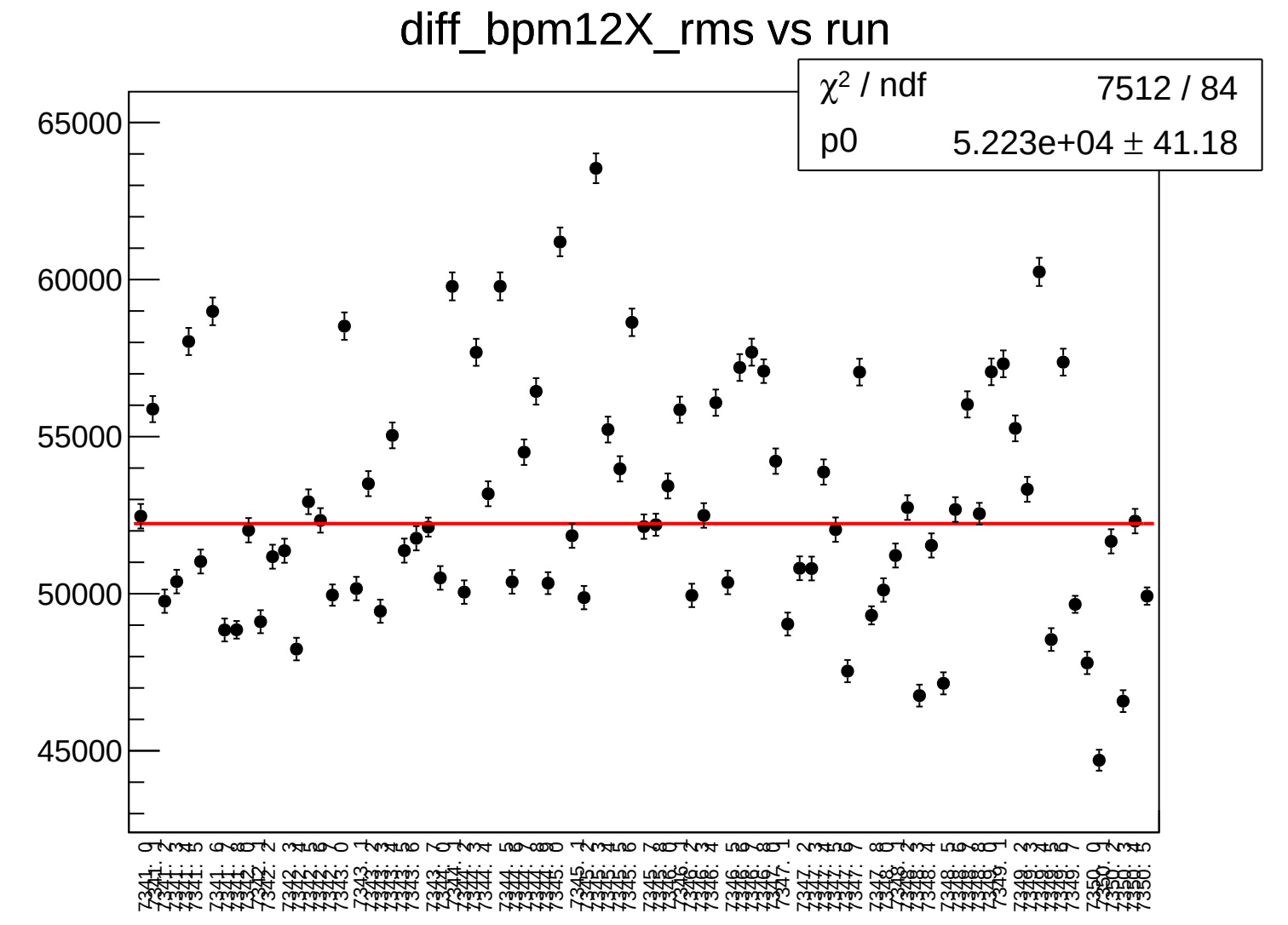

diff_bpm11Y_mean vs run
χ² / ndf 54.69 / 84
p0 6.305 ± 6.979
pull
Entries 85
Mean −73.41
Std Dev 0

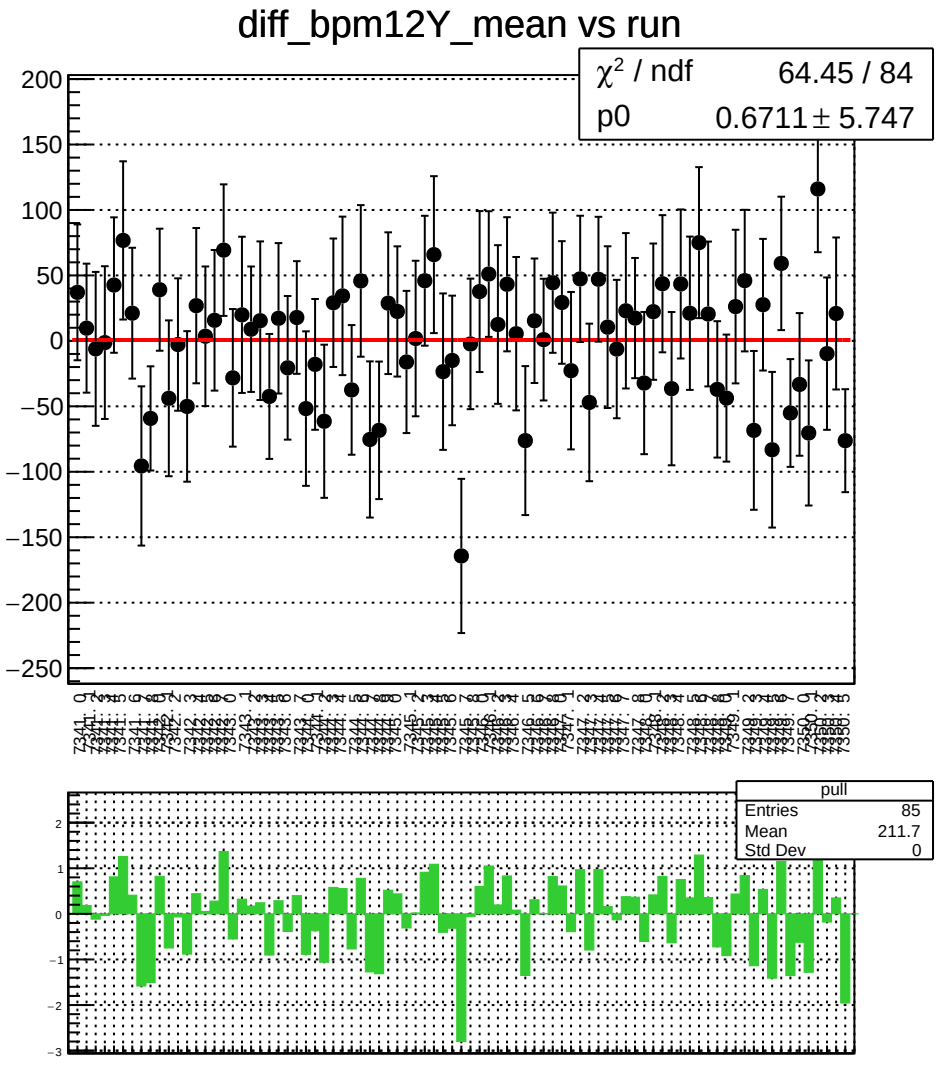

pull1D
Entries 85
Mean −0.0157
Std Dev 0.802

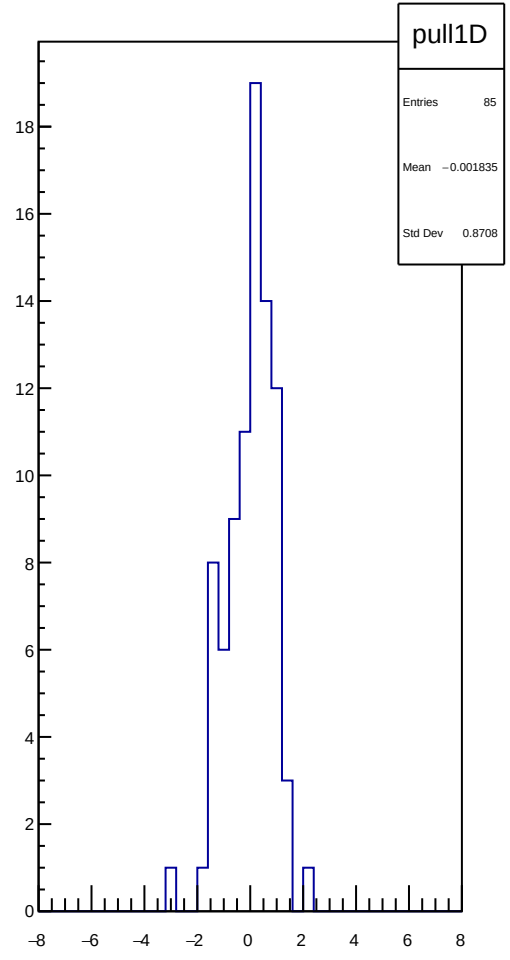

diff_bpm11Y_rms vs run
χ² / ndf 2.762e+04 / 84
p0 6220 ± 4.935
7500
7000
6500
6000
5500
5000

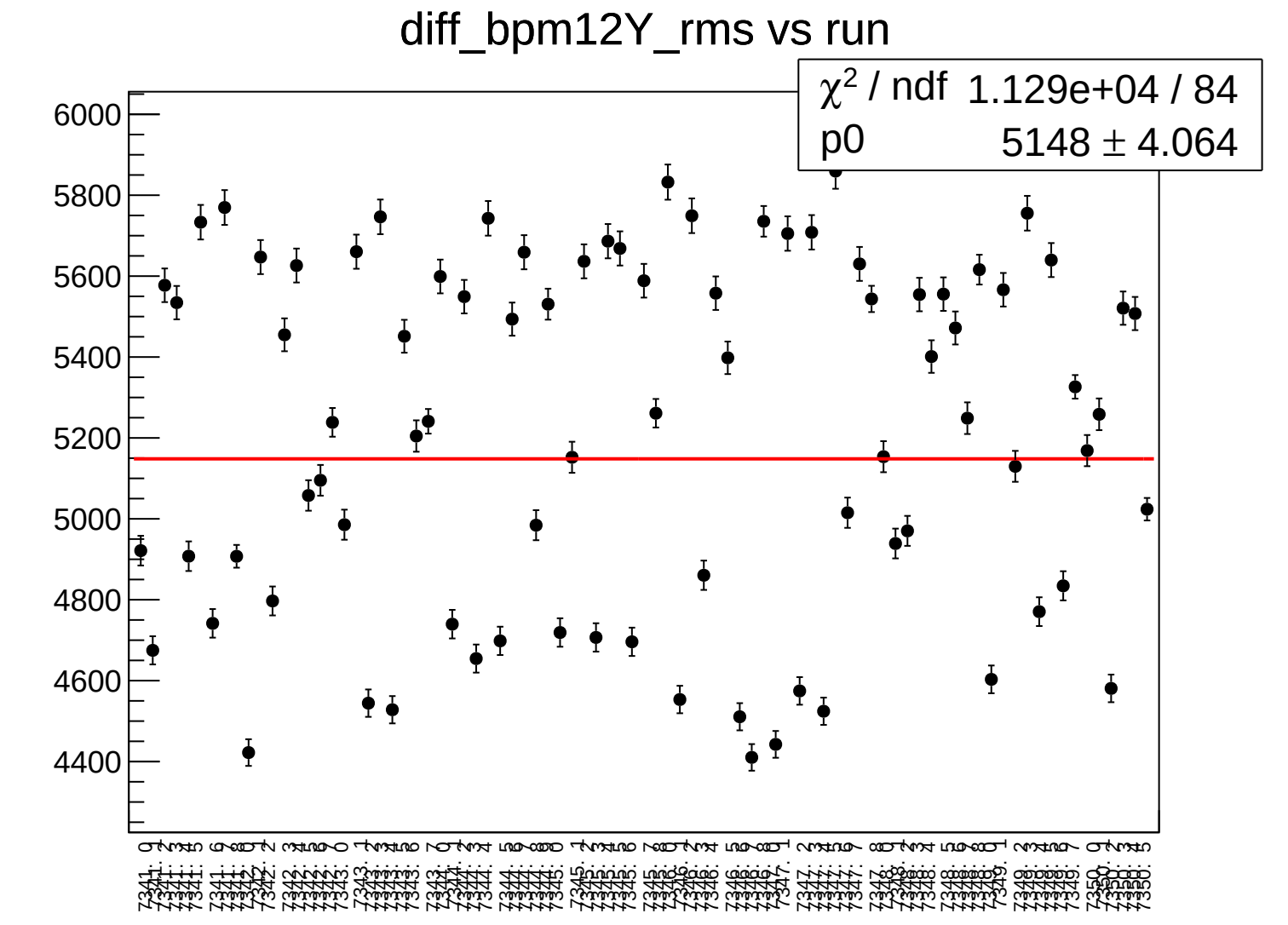

diff_bpm12X_mean vs run
χ² / ndf 72.99 / 84
p0 −26.57 ± 58.24
pull
Entries 85
Mean −152.8
Std Dev 0

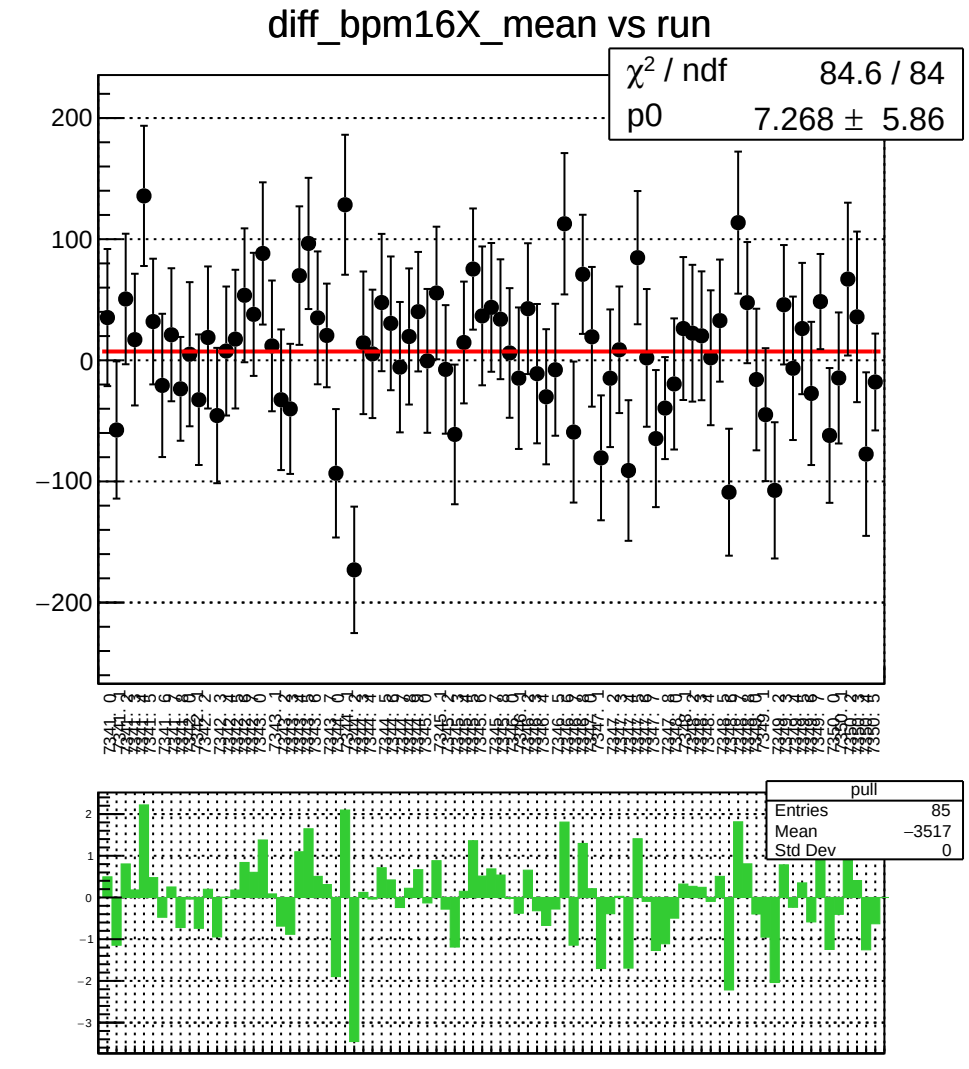

pull1D
Entries 85
Mean 0.01654
Std Dev 0.9265

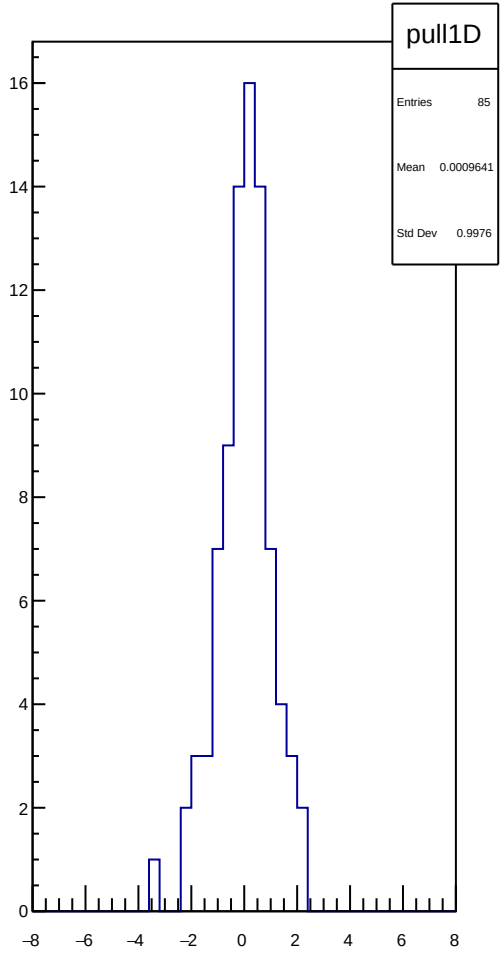

diff_bpm12X_rms vs run
χ² / ndf 7512 / 84
p0 5.223e+04 ± 41.18
65000
60000
55000
50000
45000

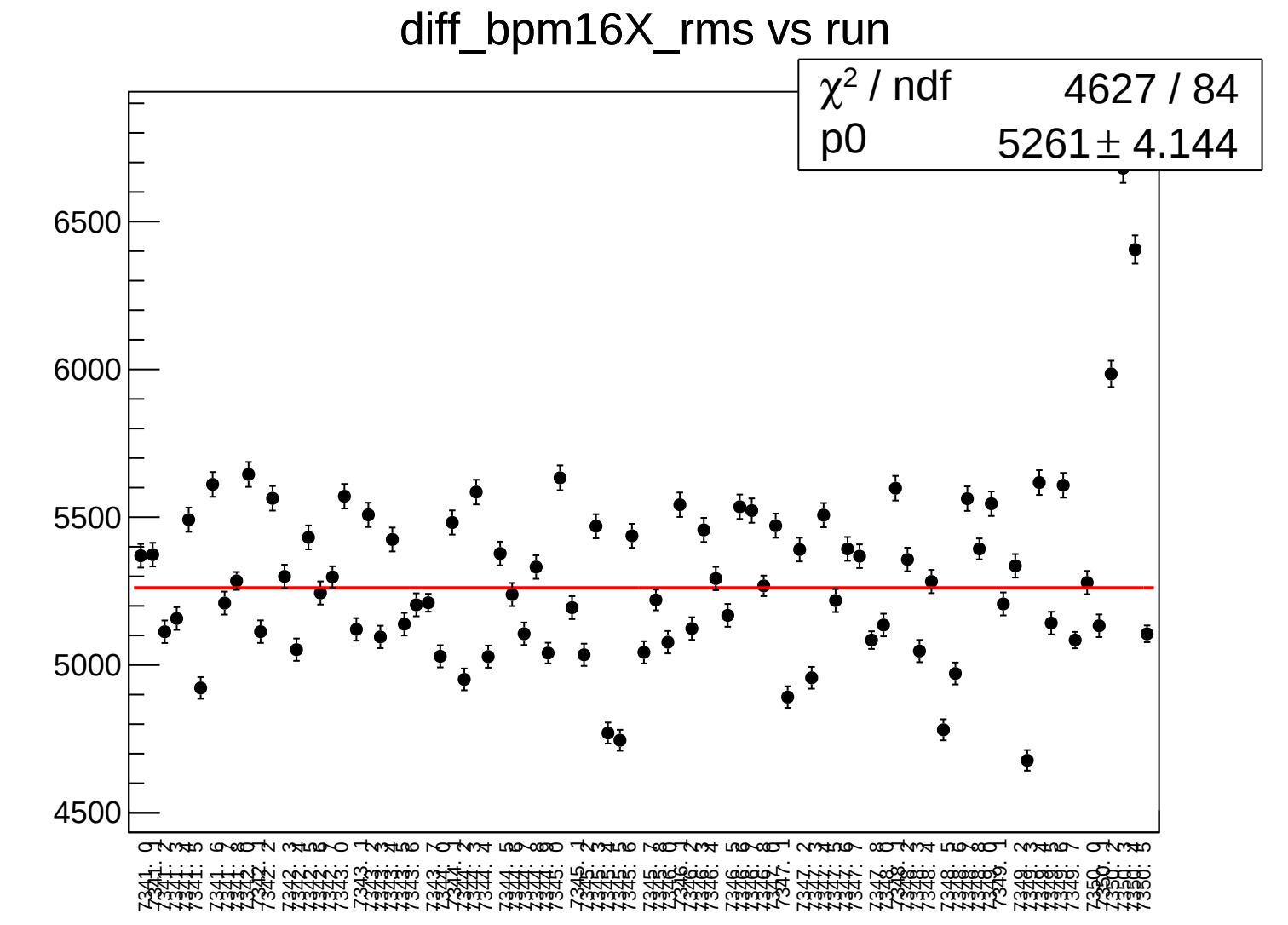

diff_bpm12Y_mean vs run
χ² / ndf 64.45 / 84
p0 0.6711 ± 5.747
pull
Entries 85
Mean 211.7
Std Dev 0

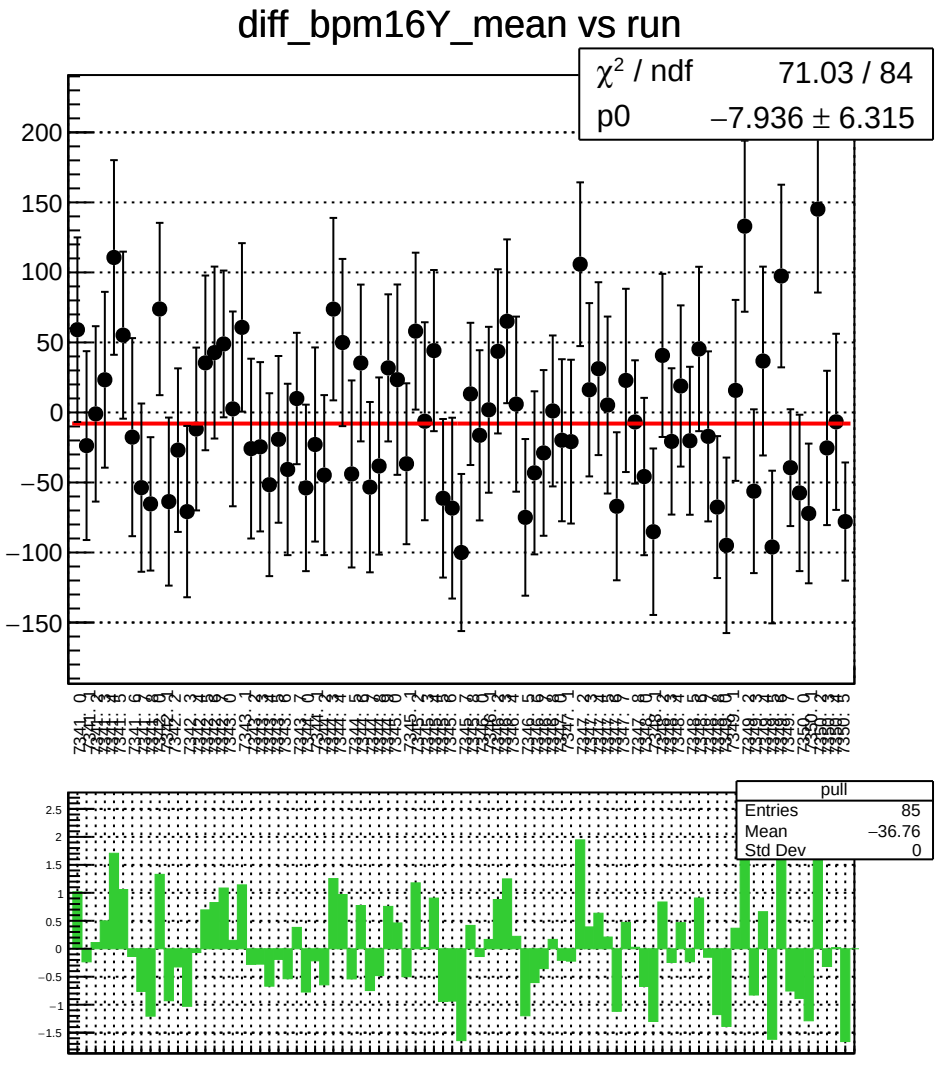

pull1D
Entries 85
Mean −0.001835
Std Dev 0.8708

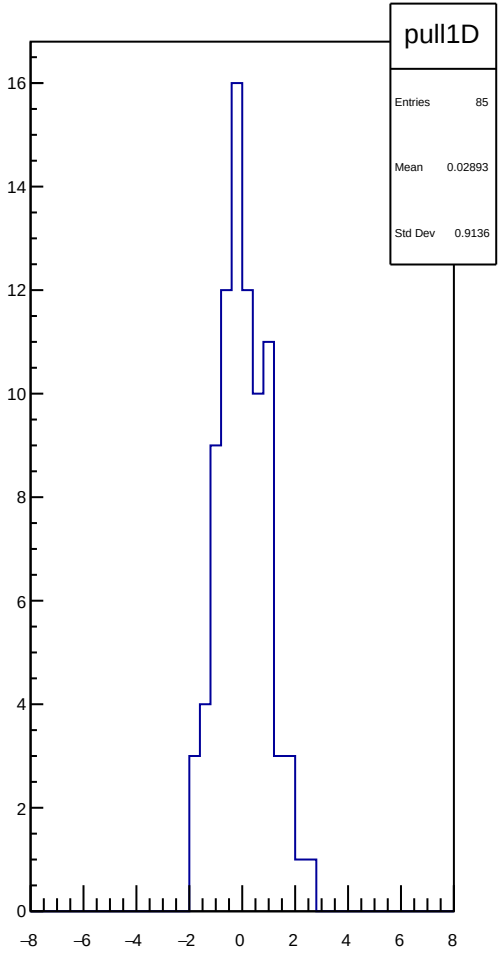

diff_bpm12Y_rms vs run
χ² / ndf 1.129e+04 / 84
p0 5148 ± 4.064
6000
5800
5600
5400
5200
5000
4800
4600
4400

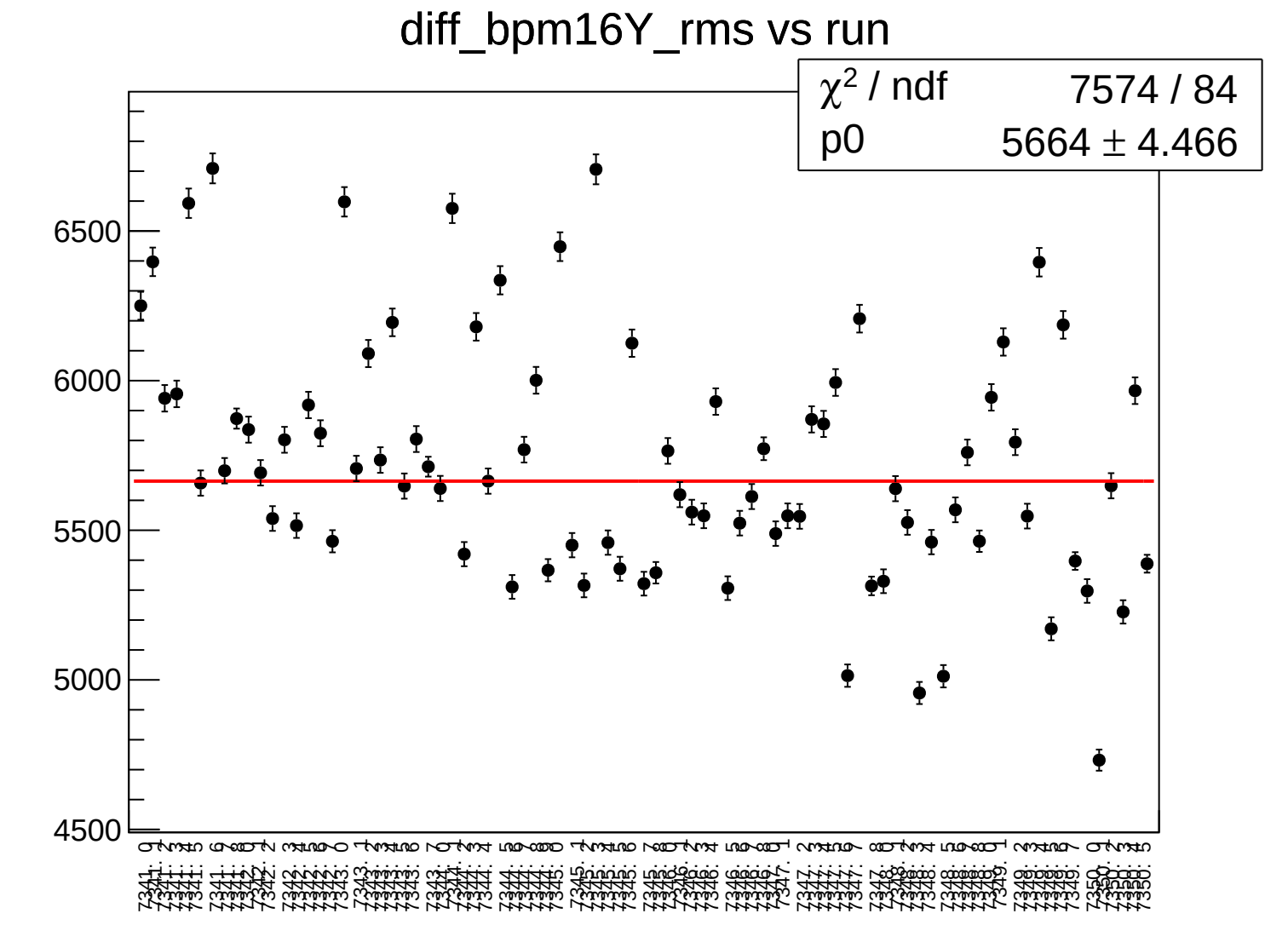

diff_bpm16X_mean vs run
χ² / ndf 84.6 / 84
p0 7.268 ± 5.86
200
100
0
−100
−200
pull
Entries 85
Mean −3517
Std Dev 0
2
1
0
−1
−2
−3

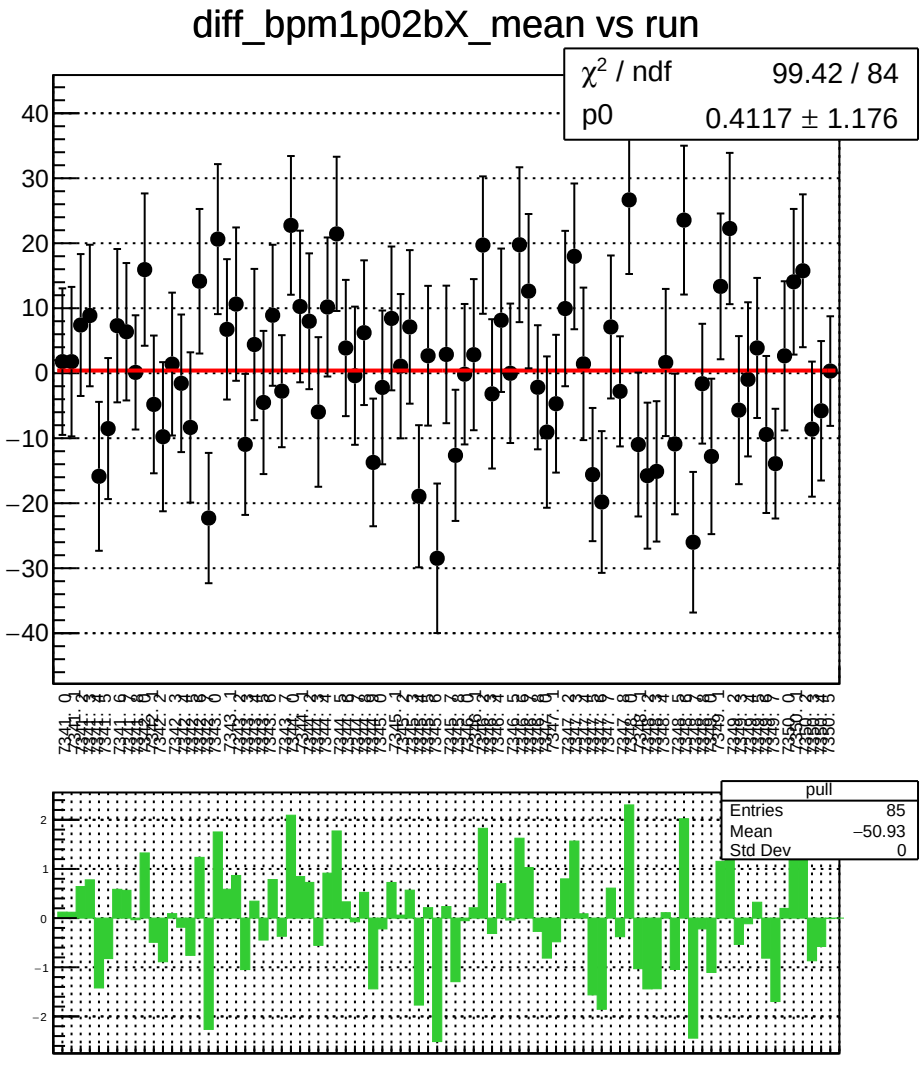

pull1D
Entries 85
Mean 0.0009641
Std Dev 0.9976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

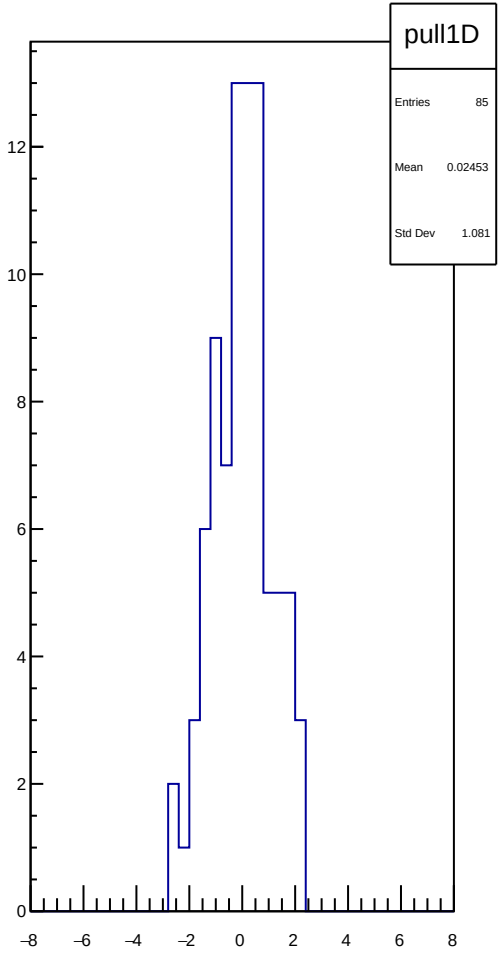

diff_bpm16X_rms vs run
χ² / ndf 4627 / 84
p0 5261 ± 4.144
6500
6000
5500
5000
4500

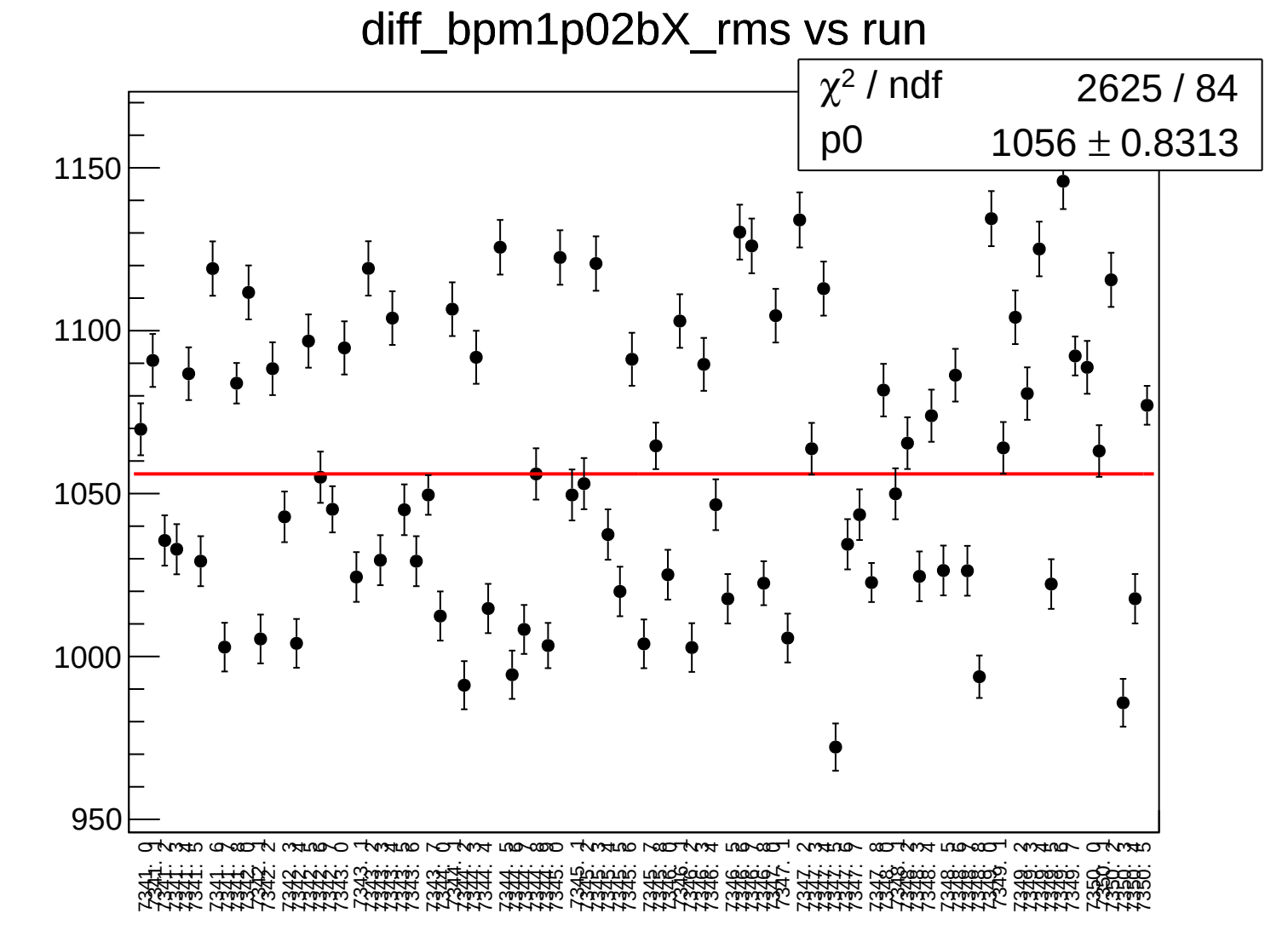

diff_bpm16Y_mean vs run
χ² / ndf 71.03 / 84
p0 −7.936 ± 6.315
pull
Entries 85
Mean −36.76
Std Dev 0

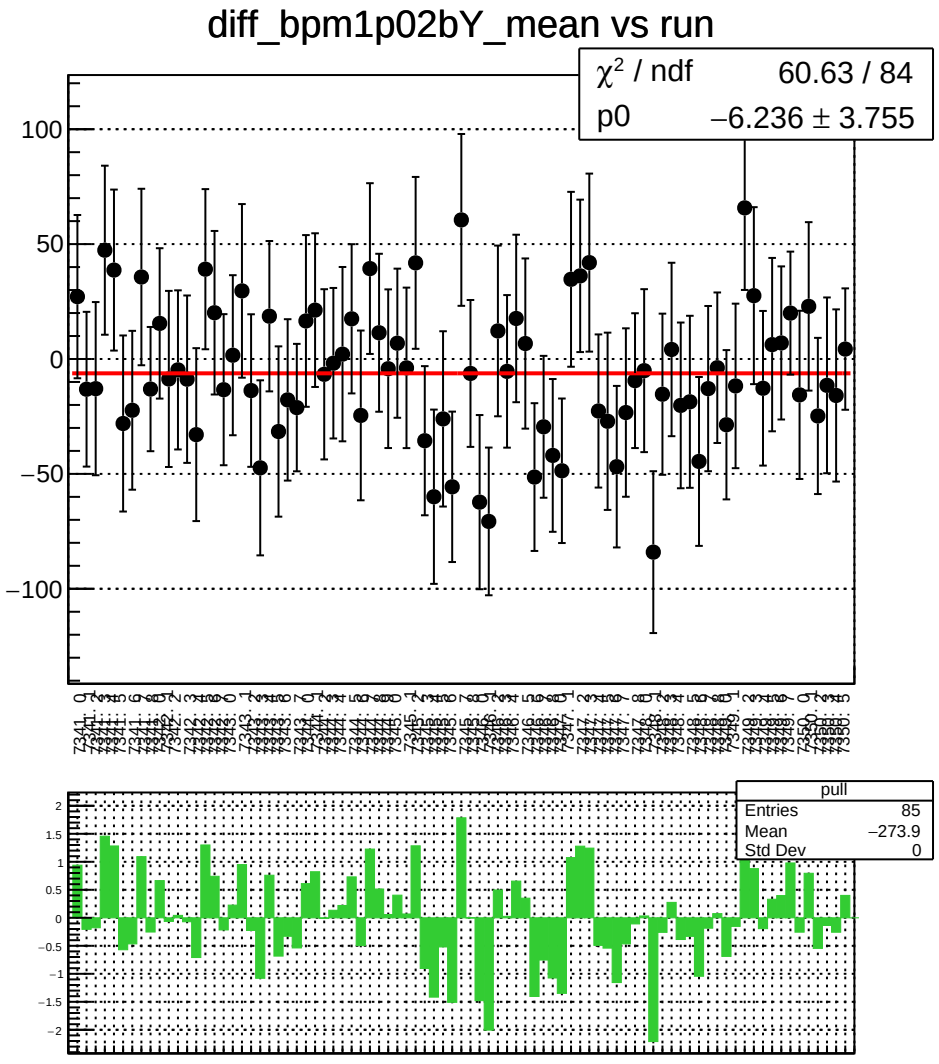

pull1D
Entries 85
Mean 0.02893
Std Dev 0.9136

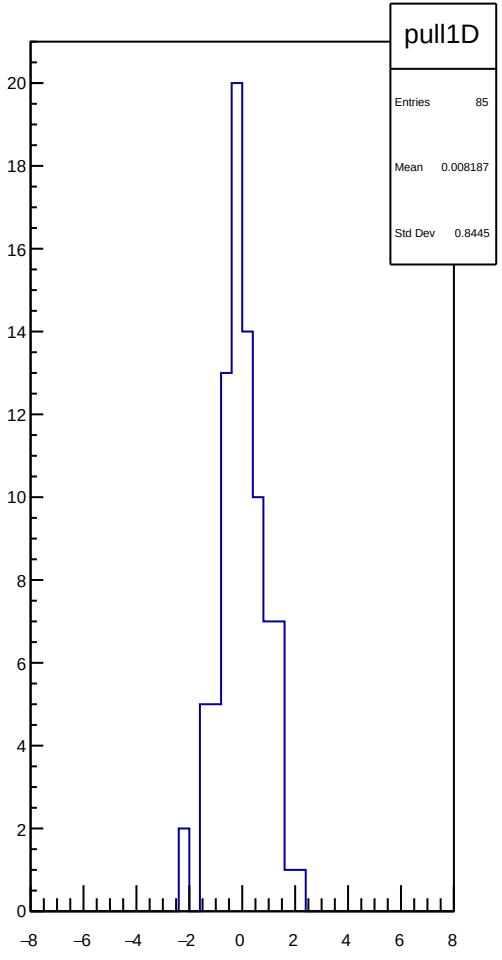

diff_bpm16Y_rms vs run
χ² / ndf 7574 / 84
p0 5664 ± 4.466
6500
6000
5500
5000
4500

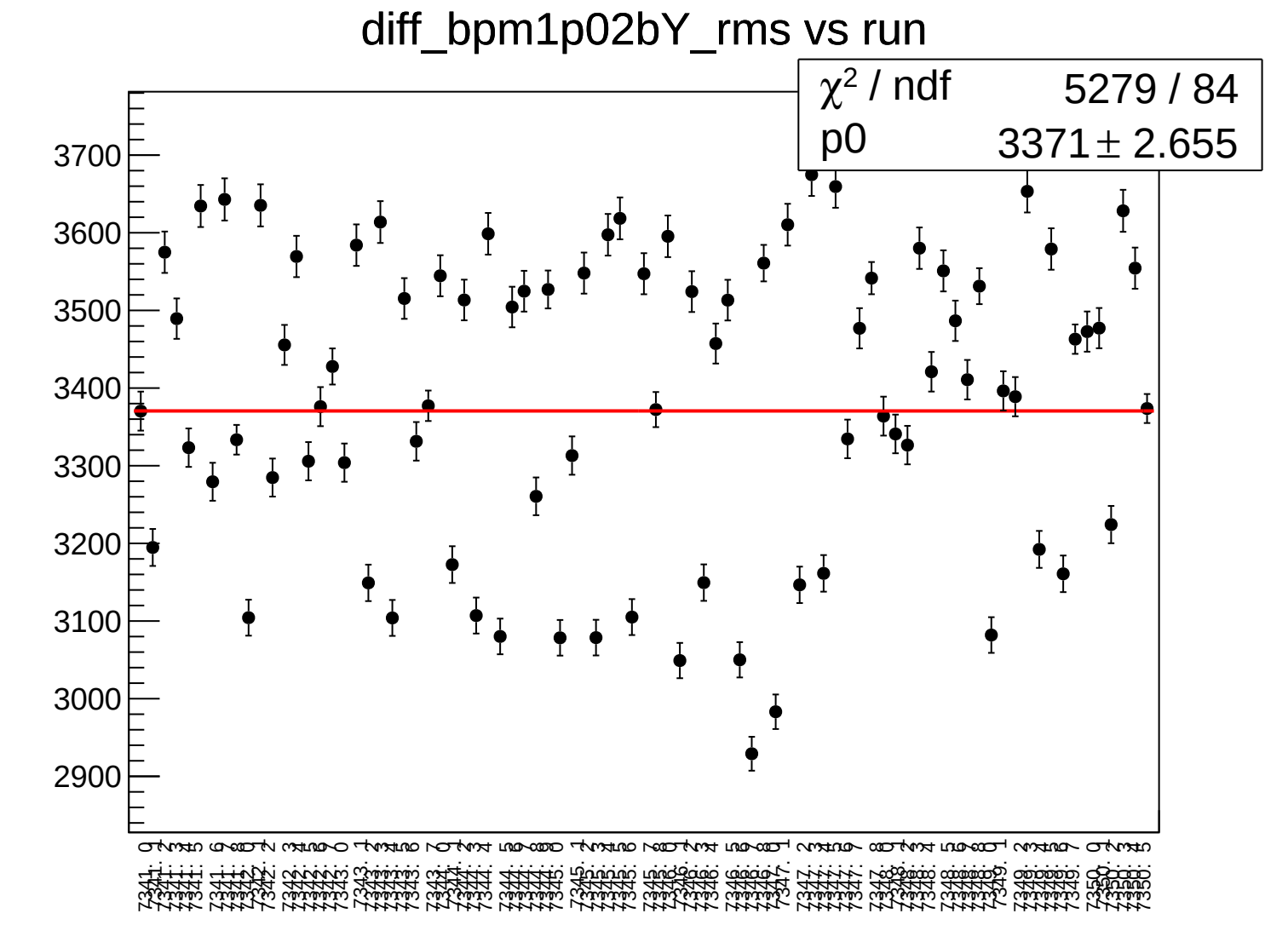

diff_bpm1p02bX_mean vs run
χ² / ndf 99.42 / 84
p0 0.4117 ± 1.176
pull
Entries 85
Mean −50.93
Std Dev 0

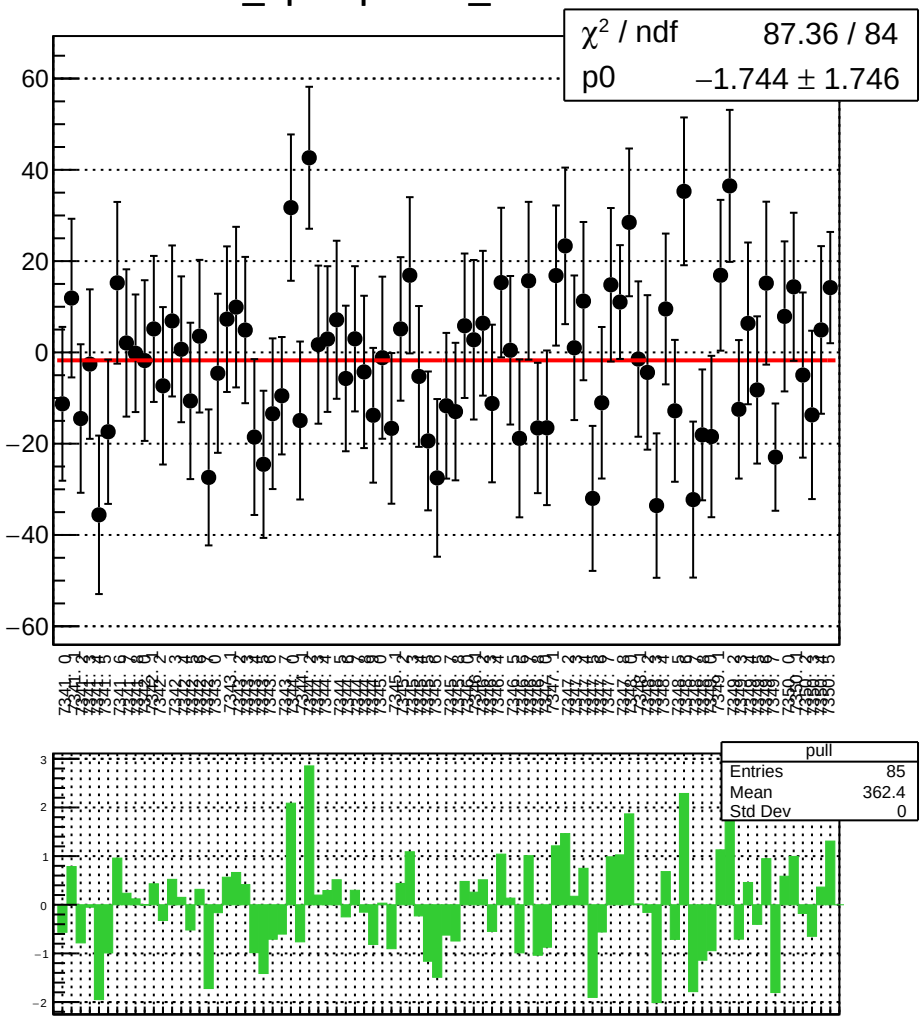

pull1D
Entries 85
Mean 0.02453
Std Dev 1.081

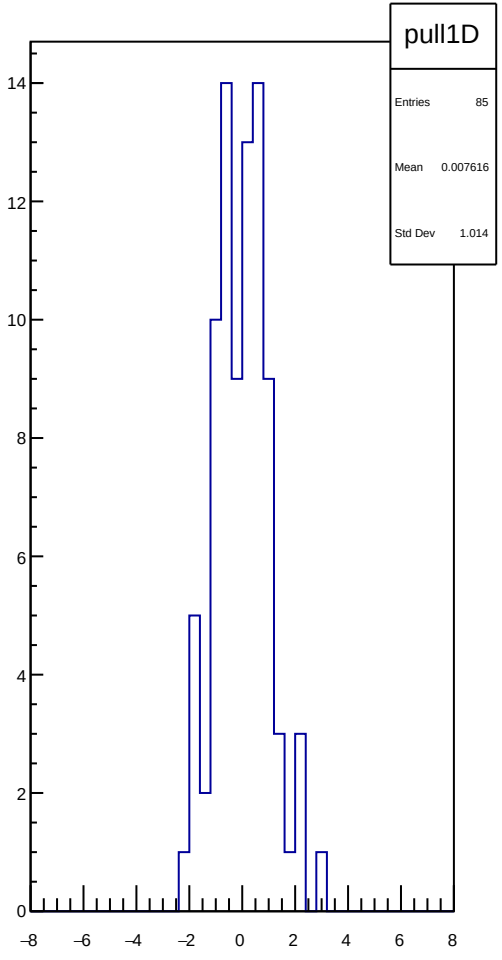

diff_bpm1p02bX_rms vs run
χ² / ndf 2625 / 84
p0 1056 ± 0.8313
1150
1100
1050
1000
950

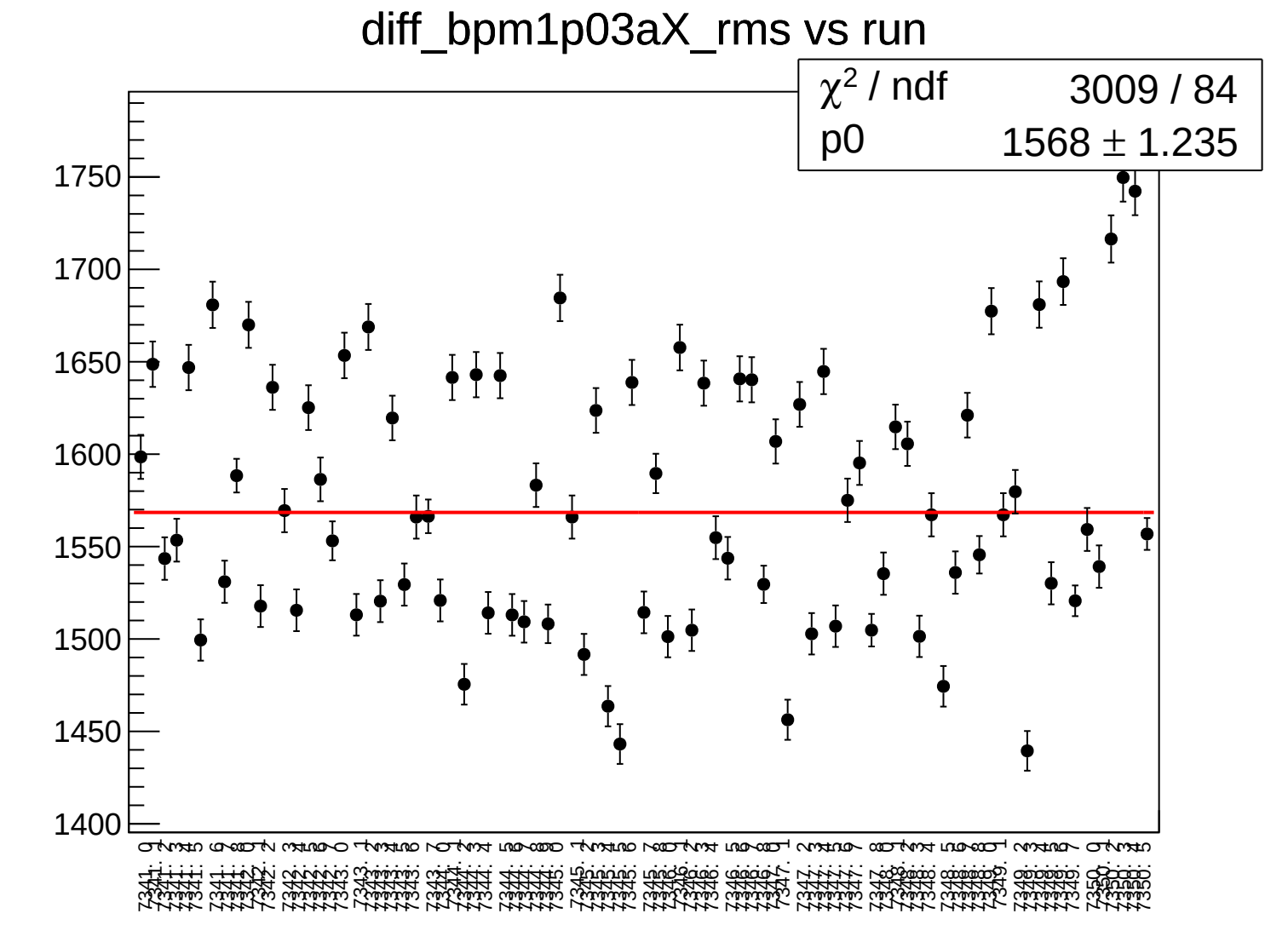

diff_bpm1p02bY_mean vs run
χ² / ndf 60.63 / 84
p0 −6.236 ± 3.755
pull
Entries 85
Mean −273.9
Std Dev 0

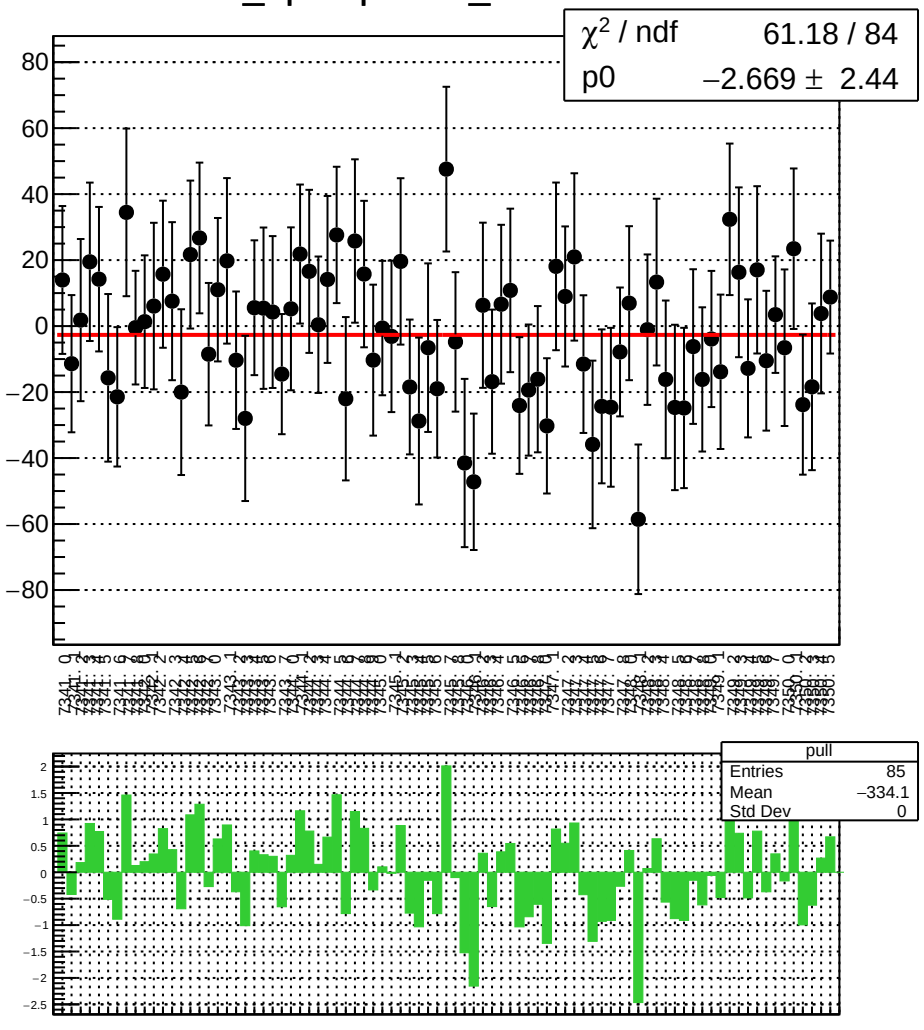

pull1D
Entries 85
Mean 0.008187
Std Dev 0.8445

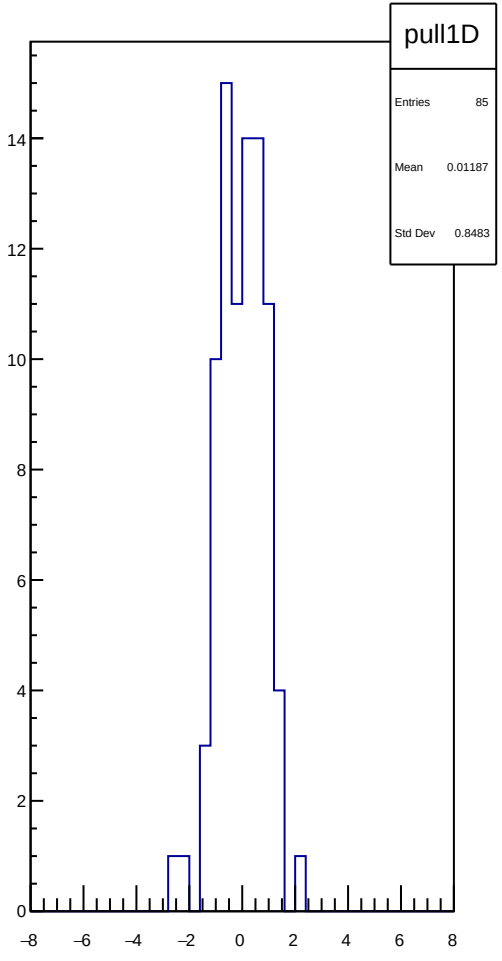

diff_bpm1p02bY_rms vs run
χ² / ndf 5279 / 84
p0 3371 ± 2.655
3700
3600
3500
3400
3300
3200
3100
3000
2900

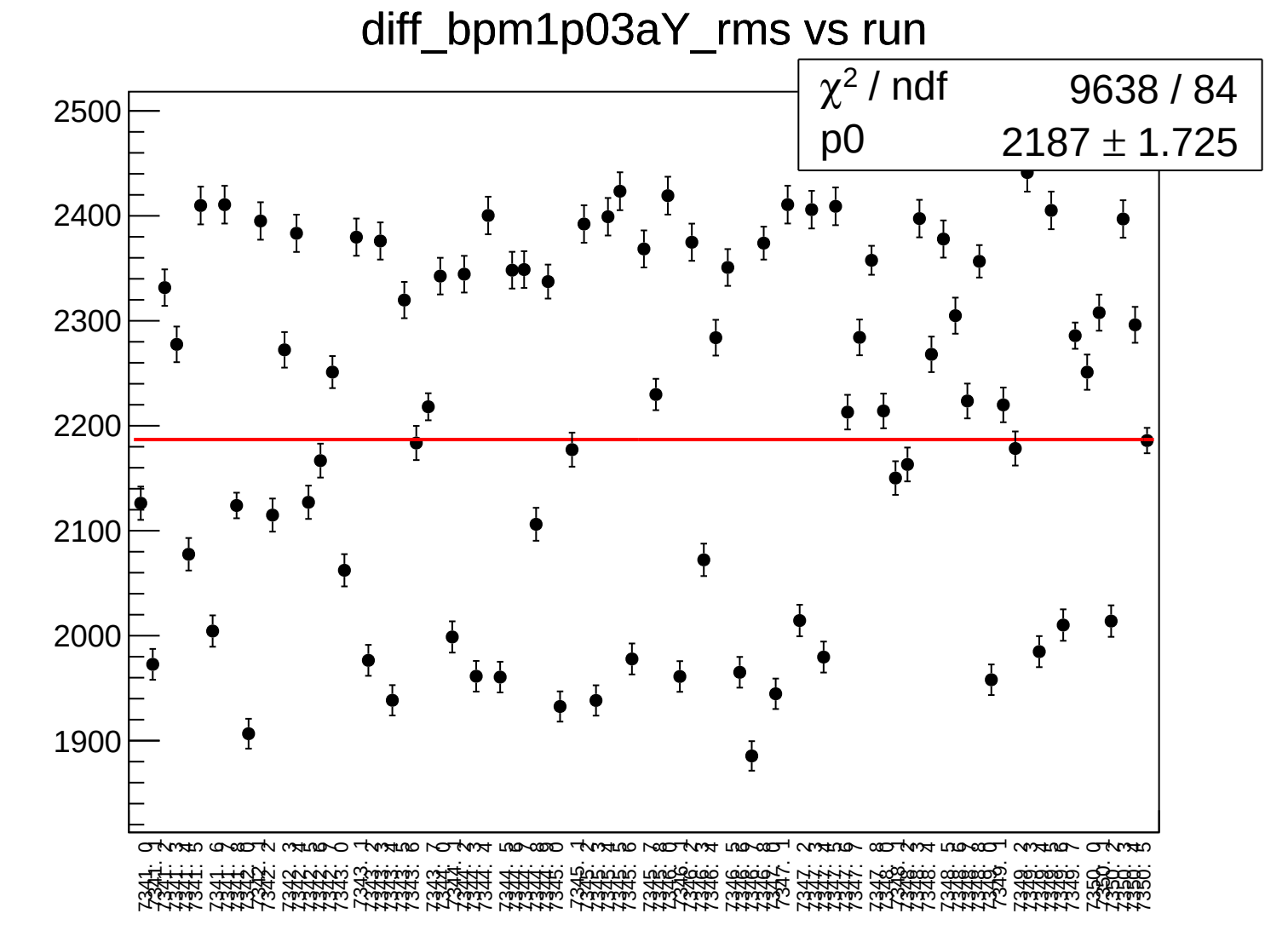

diff_bpm1p03aX_mean vs run
χ² / ndf 87.36 / 84
p0 −1.744 ± 1.746
pull
Entries 85
Mean 362.4
Std Dev 0

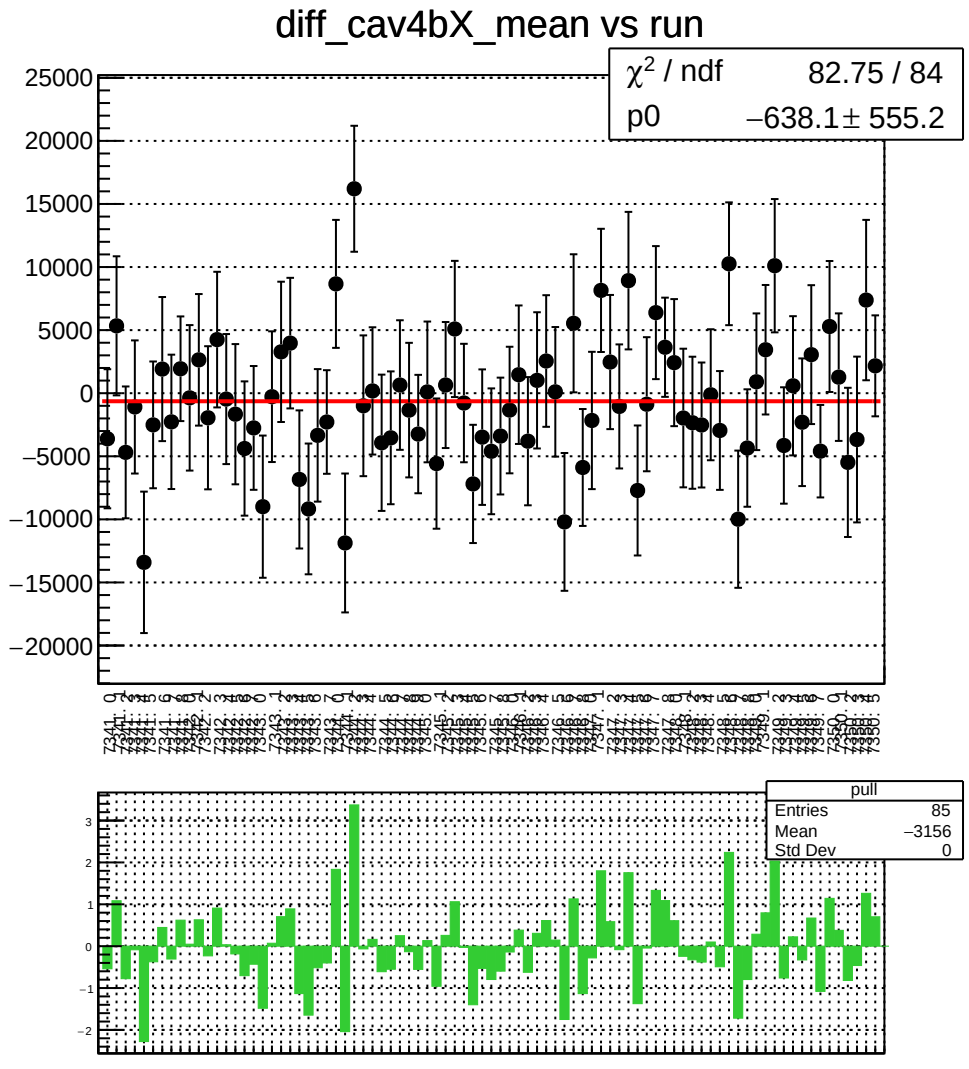

pull1D
Entries 85
Mean 0.007616
Std Dev 1.014

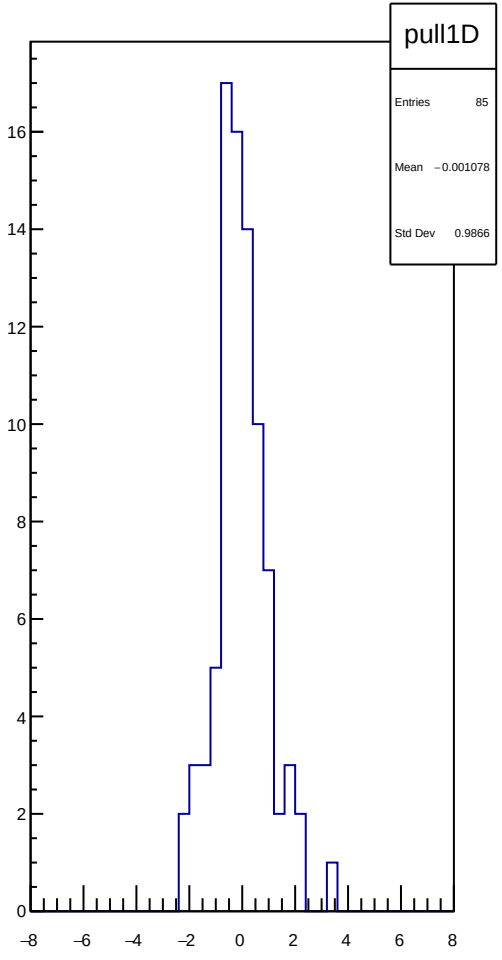

diff_bpm1p03aX_rms vs run
χ² / ndf 3009 / 84
p0 1568 ± 1.235
1750
1700
1650
1600
1550
1500
1450
1400

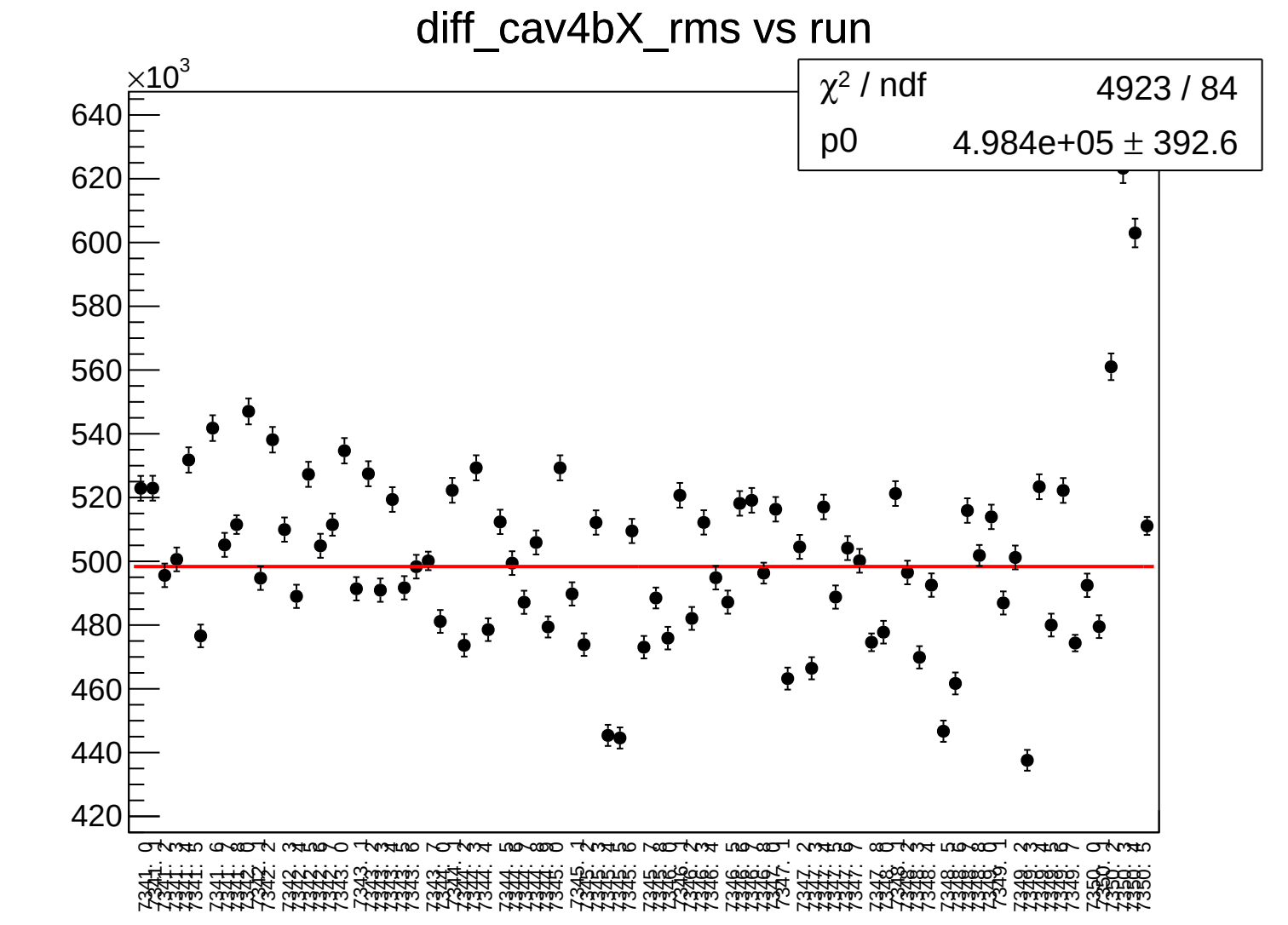

diff_bpm1p03aY_mean vs run
χ² / ndf 61.18 / 84
p0 −2.669 ± 2.44
pull
Entries 85
Mean −334.1
Std Dev 0

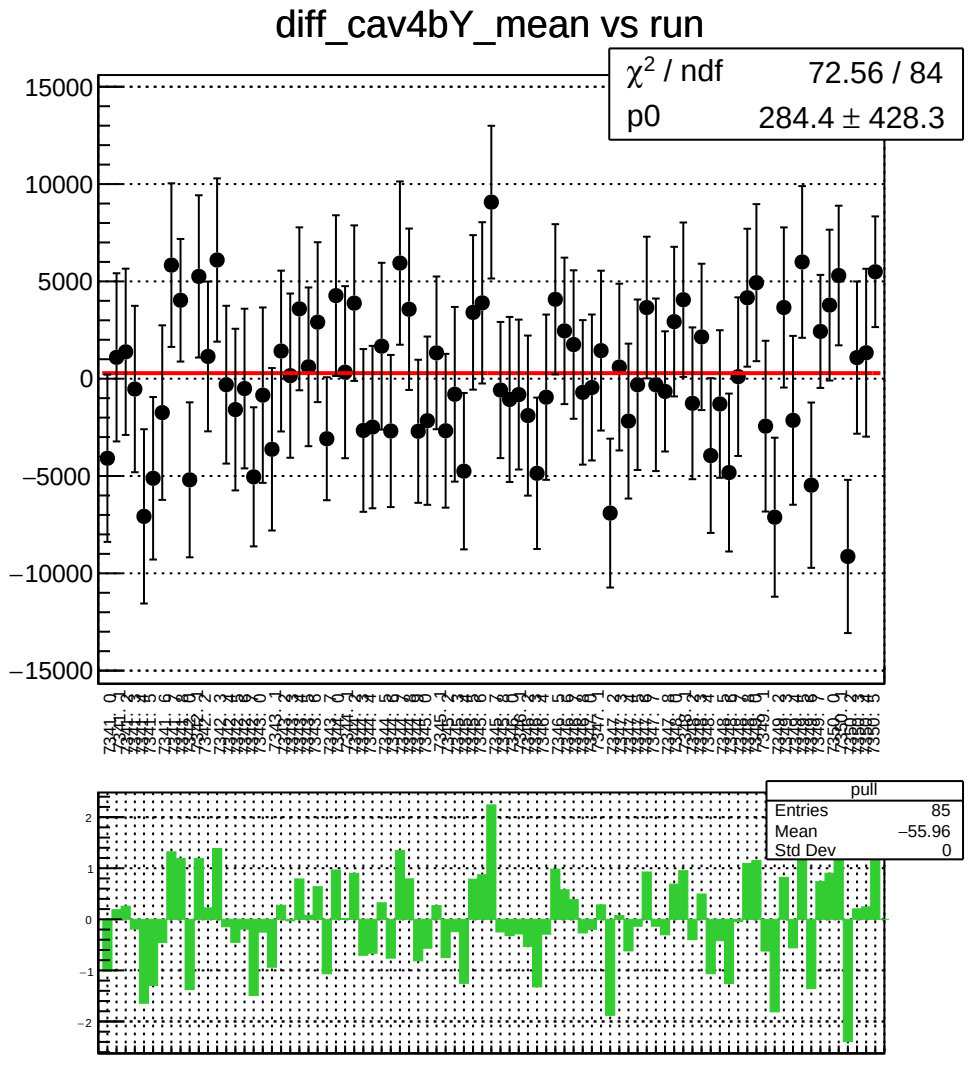

pull1D
Entries 85
Mean 0.01187
Std Dev 0.8483

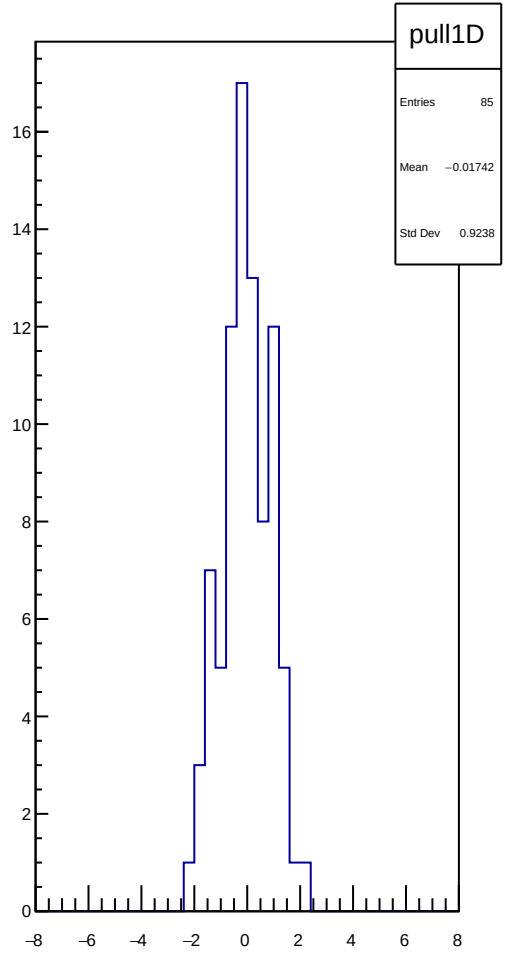

diff_bpm1p03aY_rms vs run
χ² / ndf 9638 / 84
p0 2187 ± 1.725
2500
2400
2300
2200
2100
2000
1900

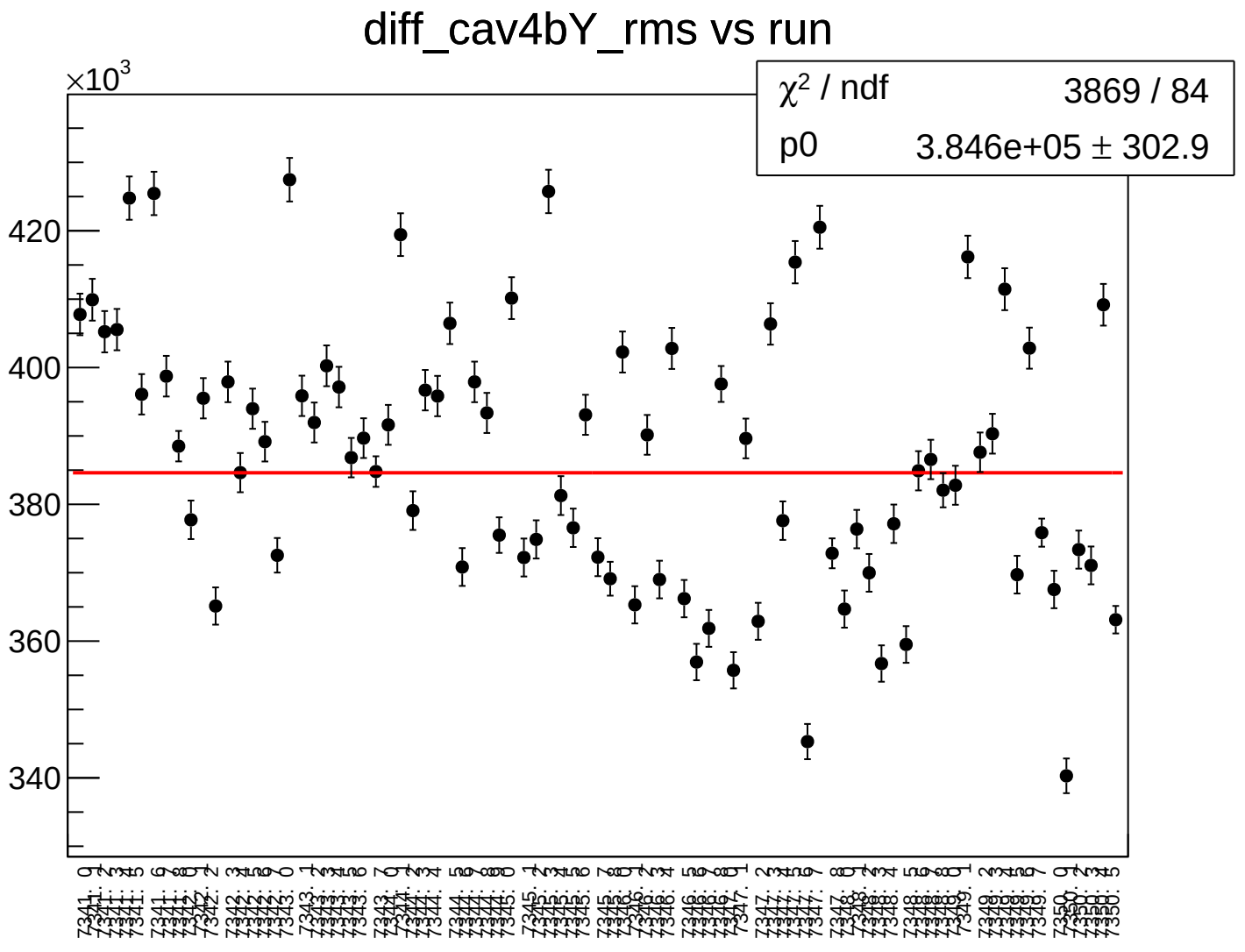

diff_cav4bX_mean vs run
χ² / ndf 82.75 / 84
p0 −638.1 ± 555.2
pull
Entries 85
Mean −3156
Std Dev 0

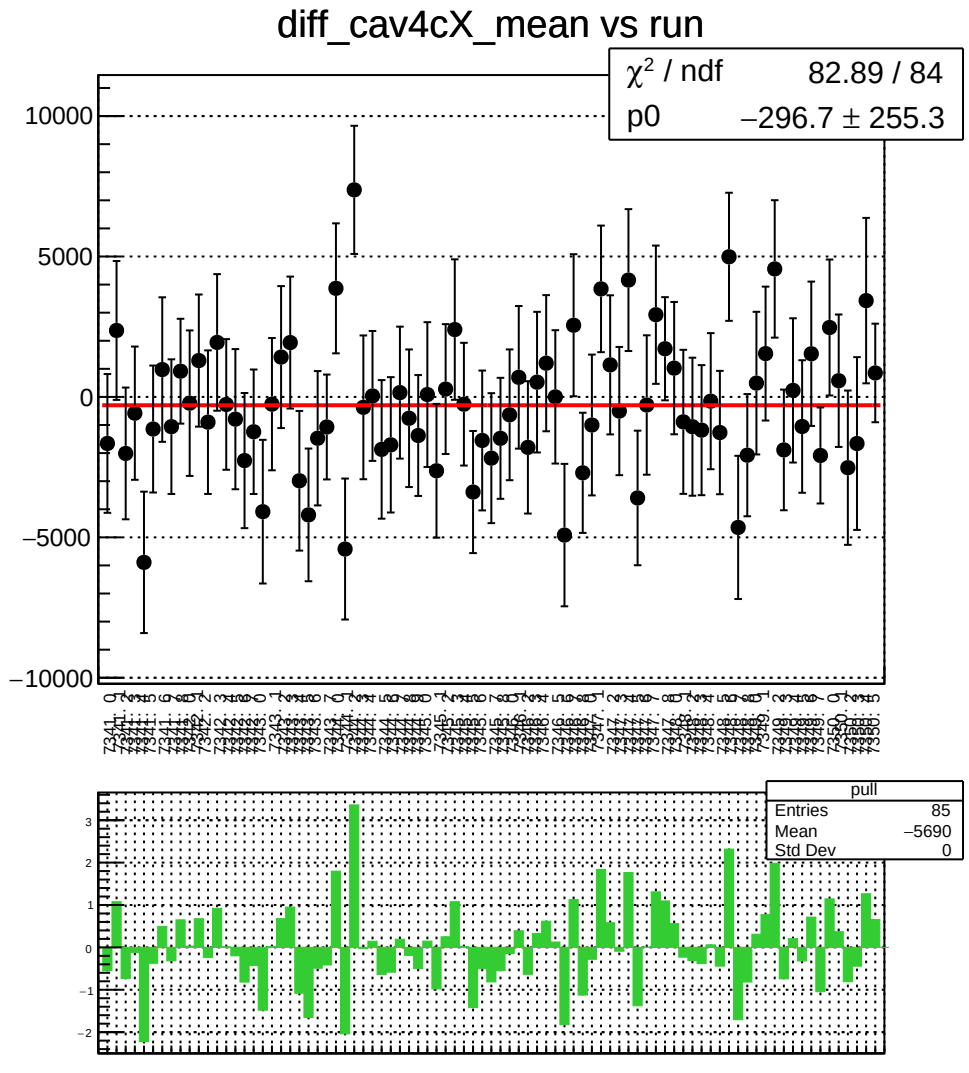

pull1D
Entries 85
Mean −0.001078
Std Dev 0.9866

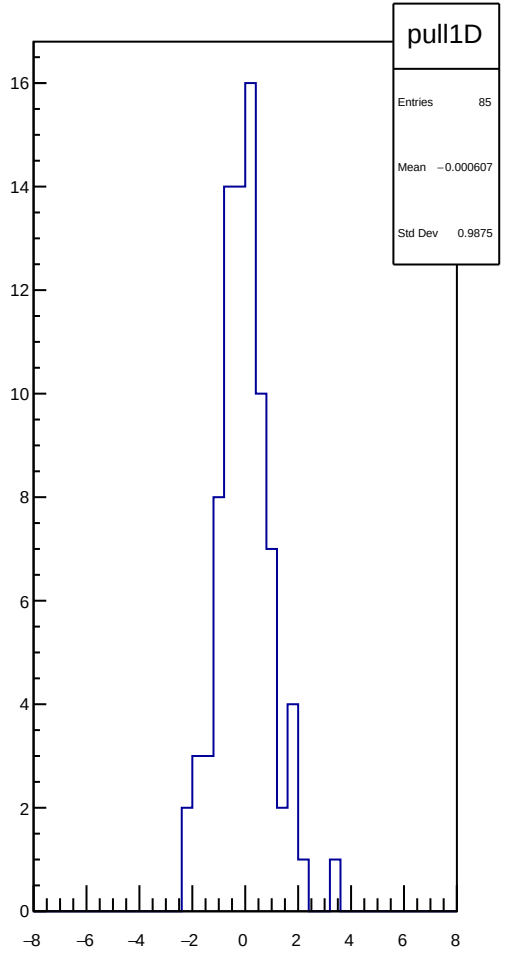

diff_cav4bX_rms vs run
×10^3
640
620
600
580
560
540
520
500
480
460
440
420
χ² / ndf 4923 / 84
p0 4.984e+05 ± 392.6

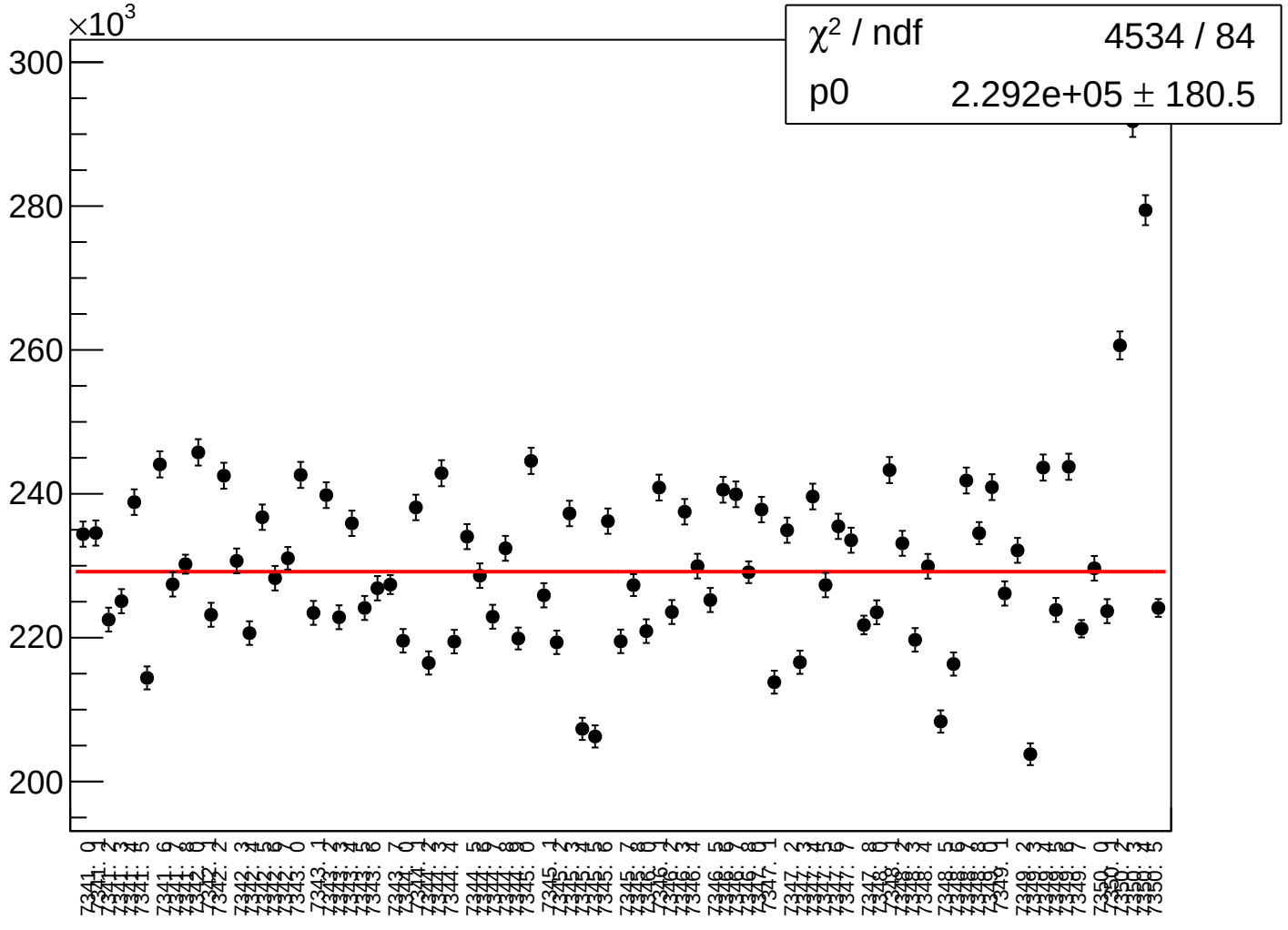

diff_cav4bY_mean vs run
χ² / ndf 72.56 / 84
p0 284.4 ± 428.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −55.96
Std Dev 0
2
1
0
−1
−2

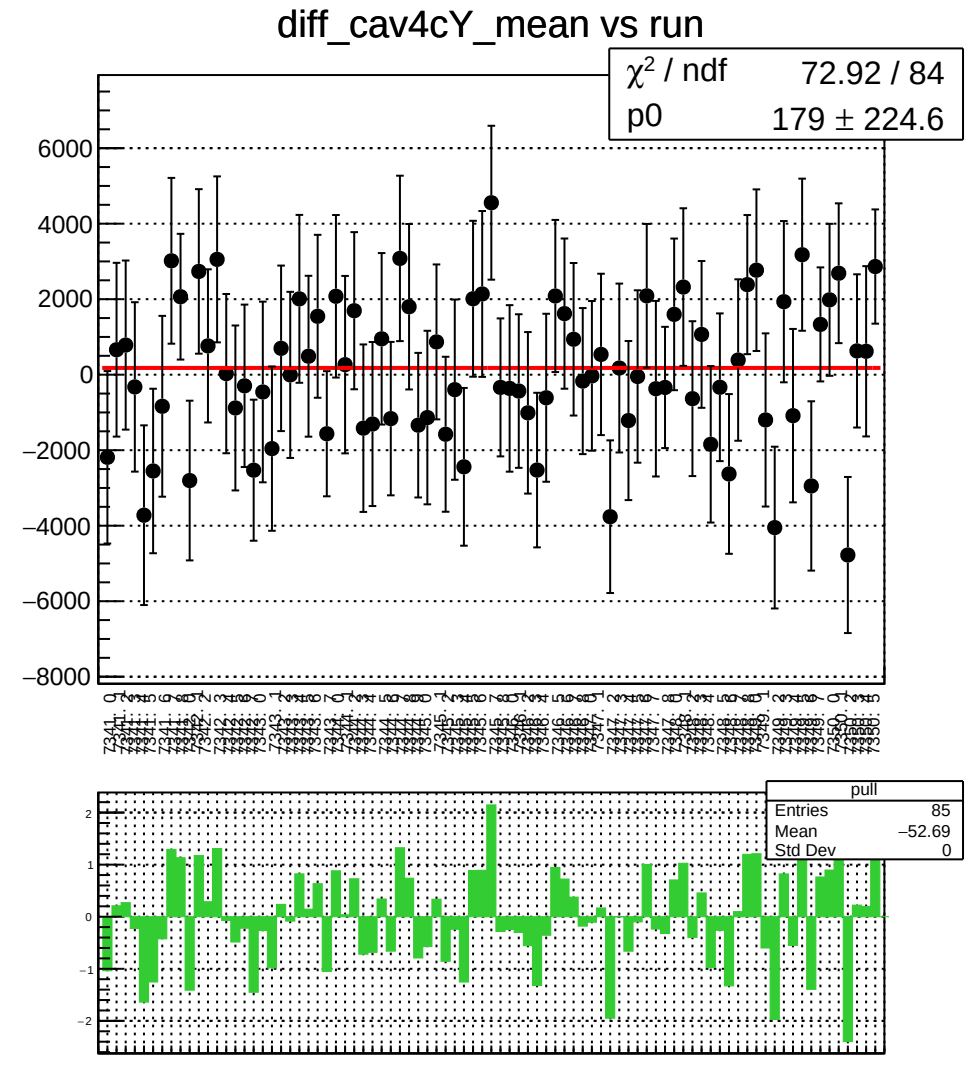

pull1D
Entries 85
Mean −0.01742
Std Dev 0.9238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

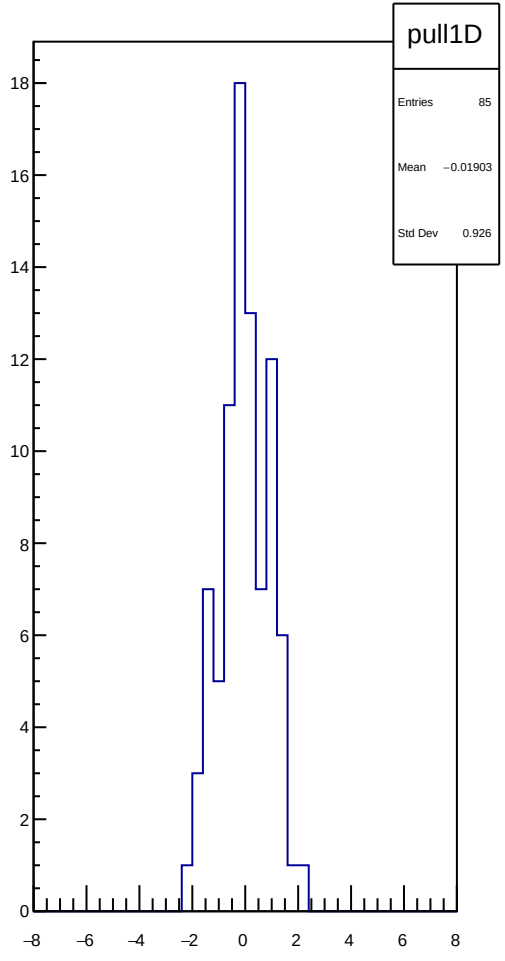

diff_cav4bY_rms vs run
×10^3
χ² / ndf 3869 / 84
p0 3.846e+05 ± 302.9
420
400
380
360
340

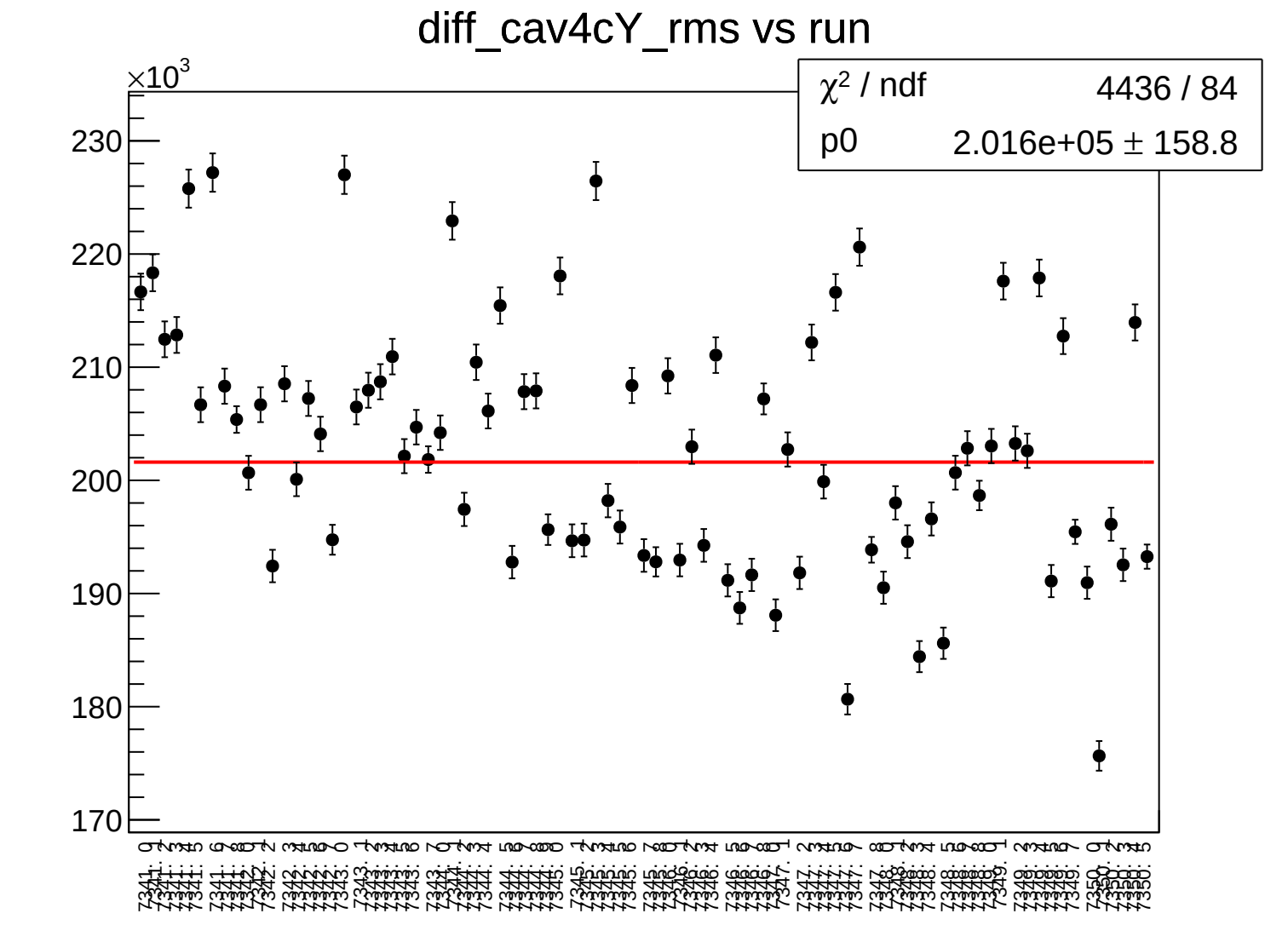

diff_cav4cX_mean vs run
χ² / ndf 82.89 / 84
p0 −296.7 ± 255.3
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −5690
Std Dev 0
3
2
1
0
−1
−2

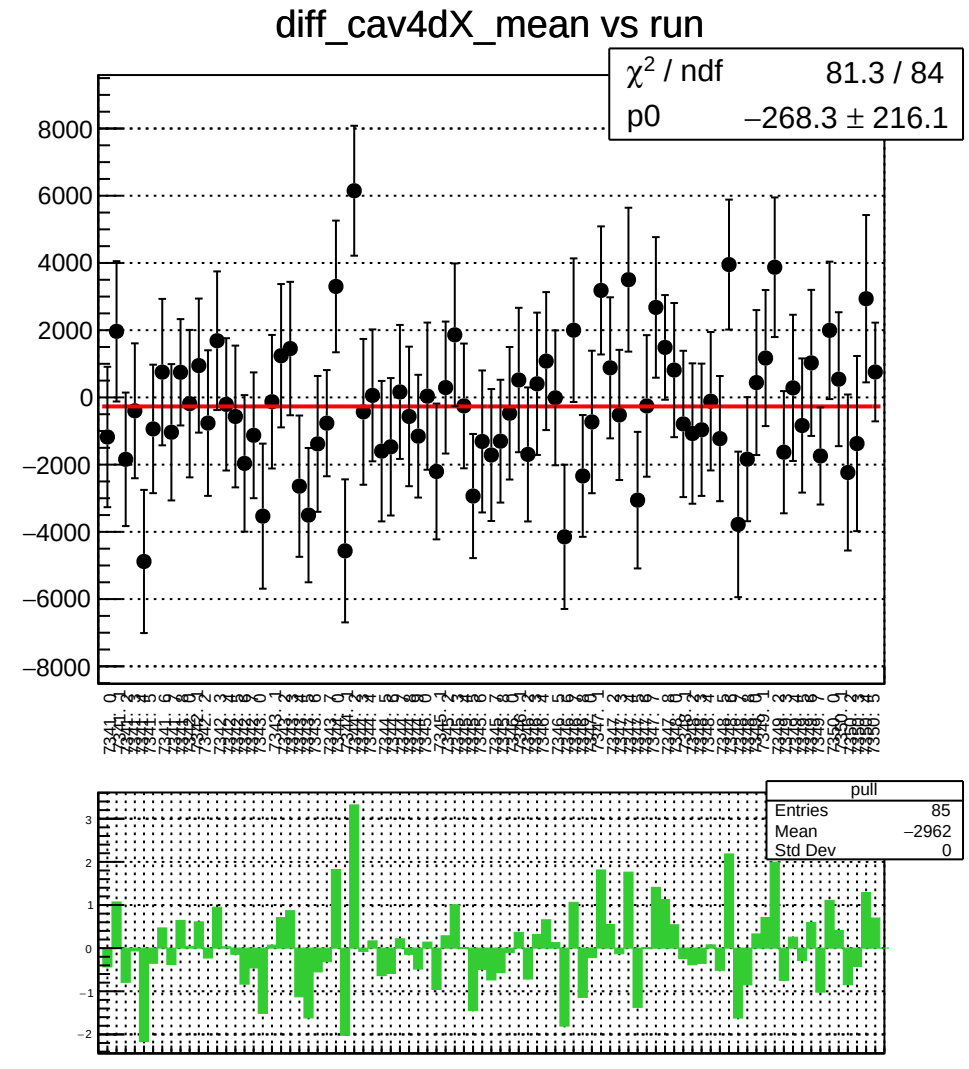

pull1D
Entries 85
Mean −0.000607
Std Dev 0.9875
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

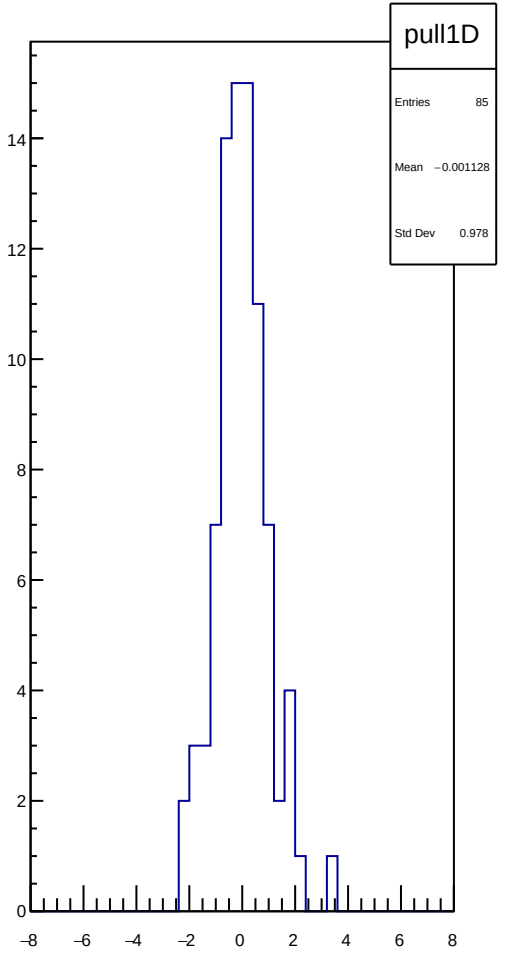

diff_cav4cX_rms vs run
×10^3
300
280
260
240
220
200
χ² / ndf 4534 / 84
p0 2.292e+05 ± 180.5

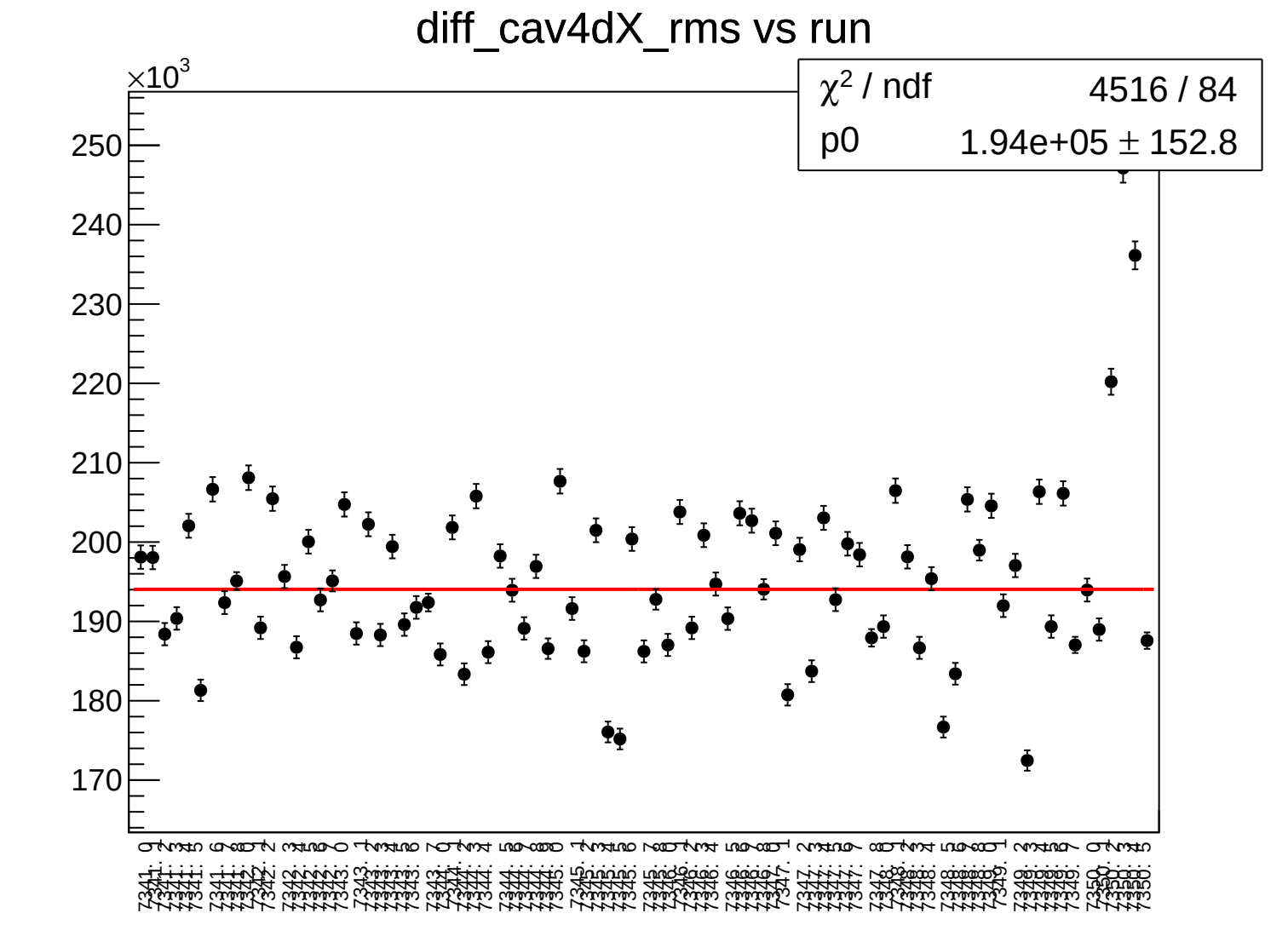

diff_cav4cY_mean vs run
χ² / ndf 72.92 / 84
p0 179 ± 224.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 85
Mean −52.69
Std Dev 0
2
1
0
−1
−2

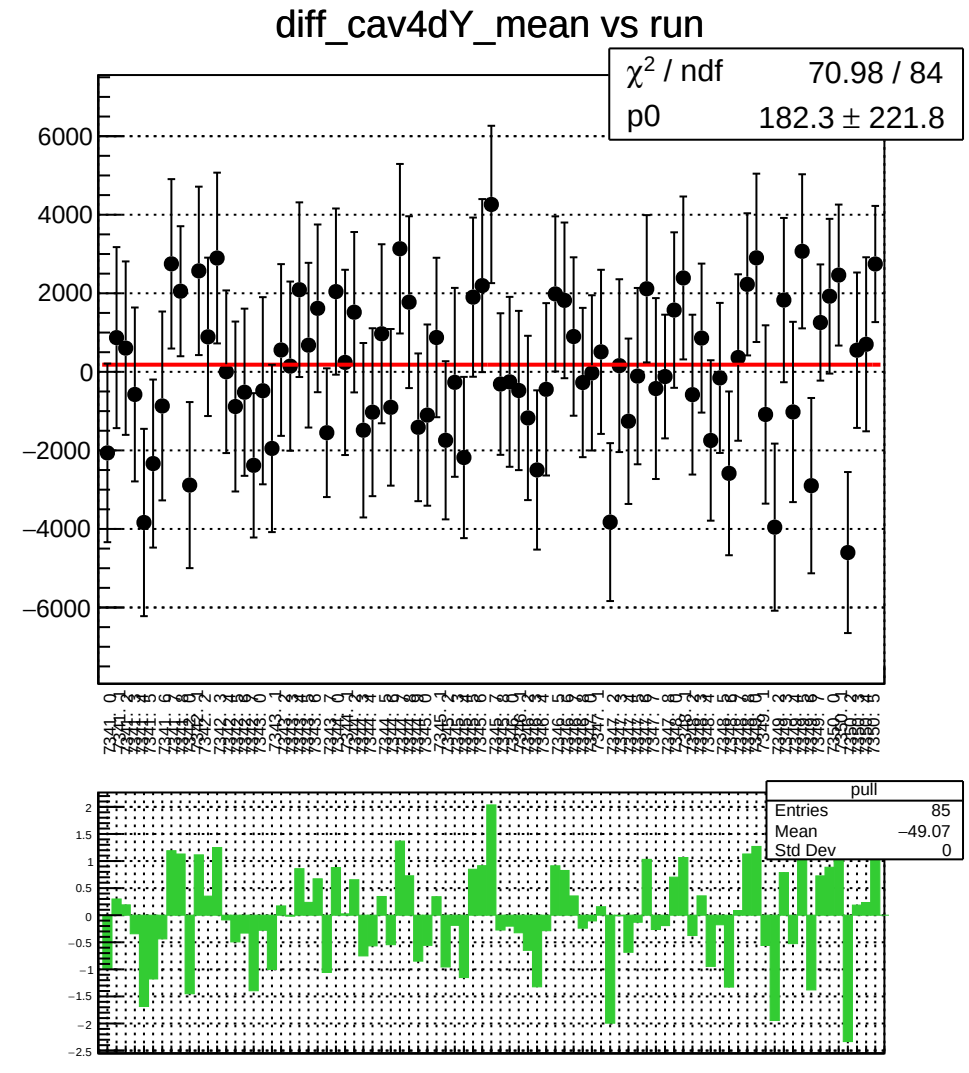

pull1D
Entries 85
Mean −0.01903
Std Dev 0.926
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

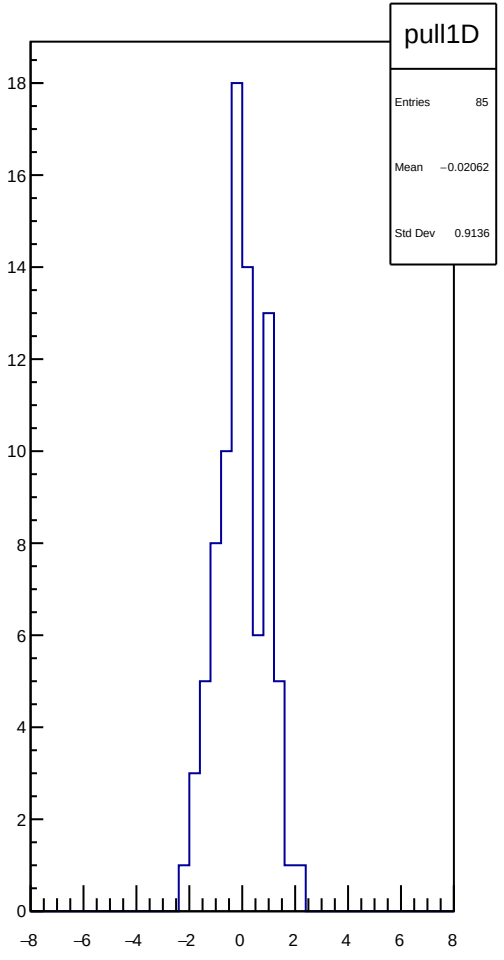

diff_cav4cY_rms vs run
×10^3
230
220
210
200
190
180
170
χ² / ndf 4436 / 84
p0 2.016e+05 ± 158.8

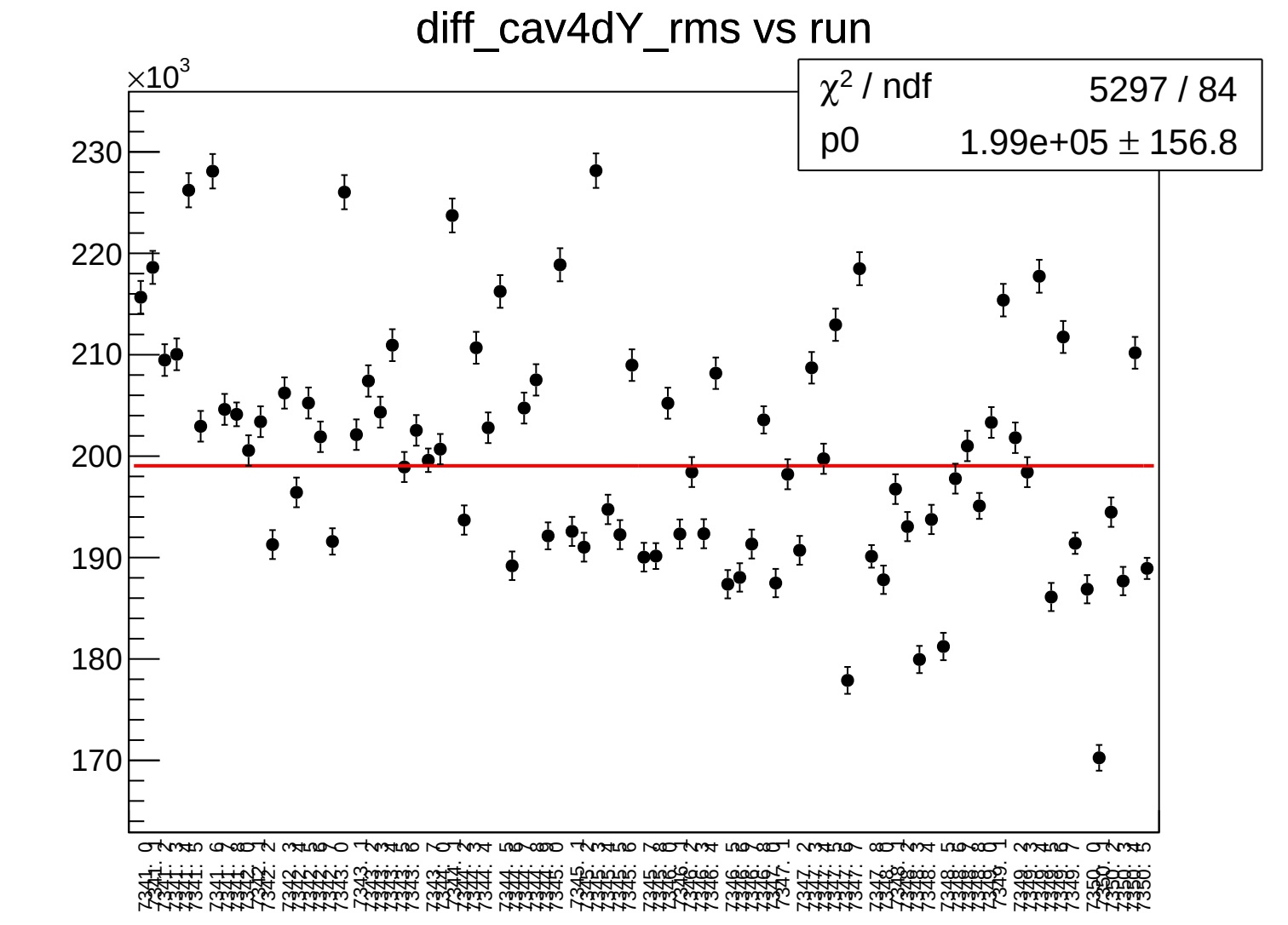

diff_cav4dX_mean vs run
χ² / ndf 81.3 / 84
p0 −268.3 ± 216.1
pull
Entries 85
Mean −2962
Std Dev 0

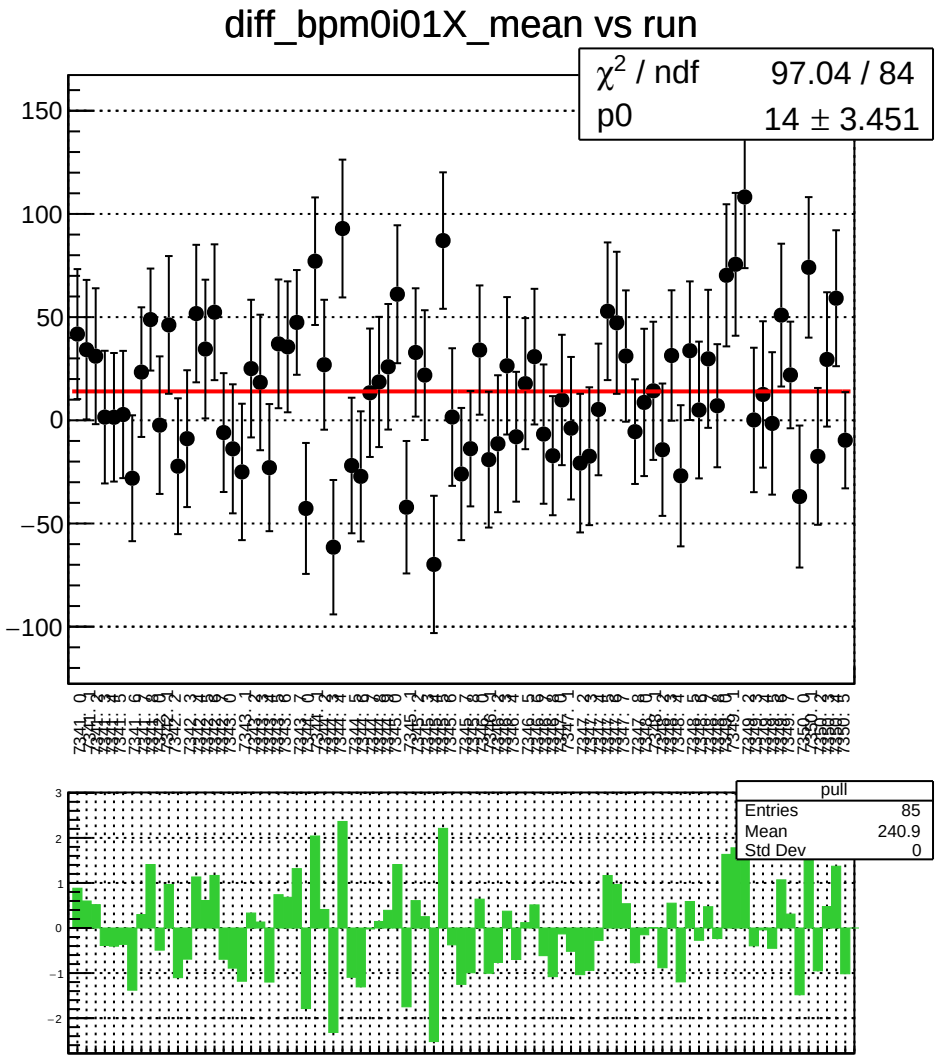

pull1D
Entries 85
Mean −0.001128
Std Dev 0.978

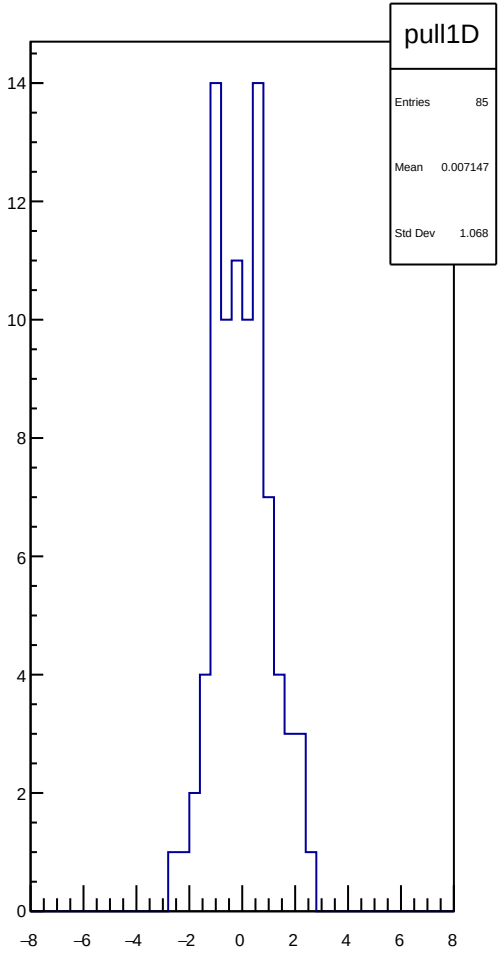

diff_cav4dX_rms vs run
×10^3
χ^2 / ndf 4516 / 84
p0 1.94e+05 ± 152.8
250
240
230
220
210
200
190
180
170

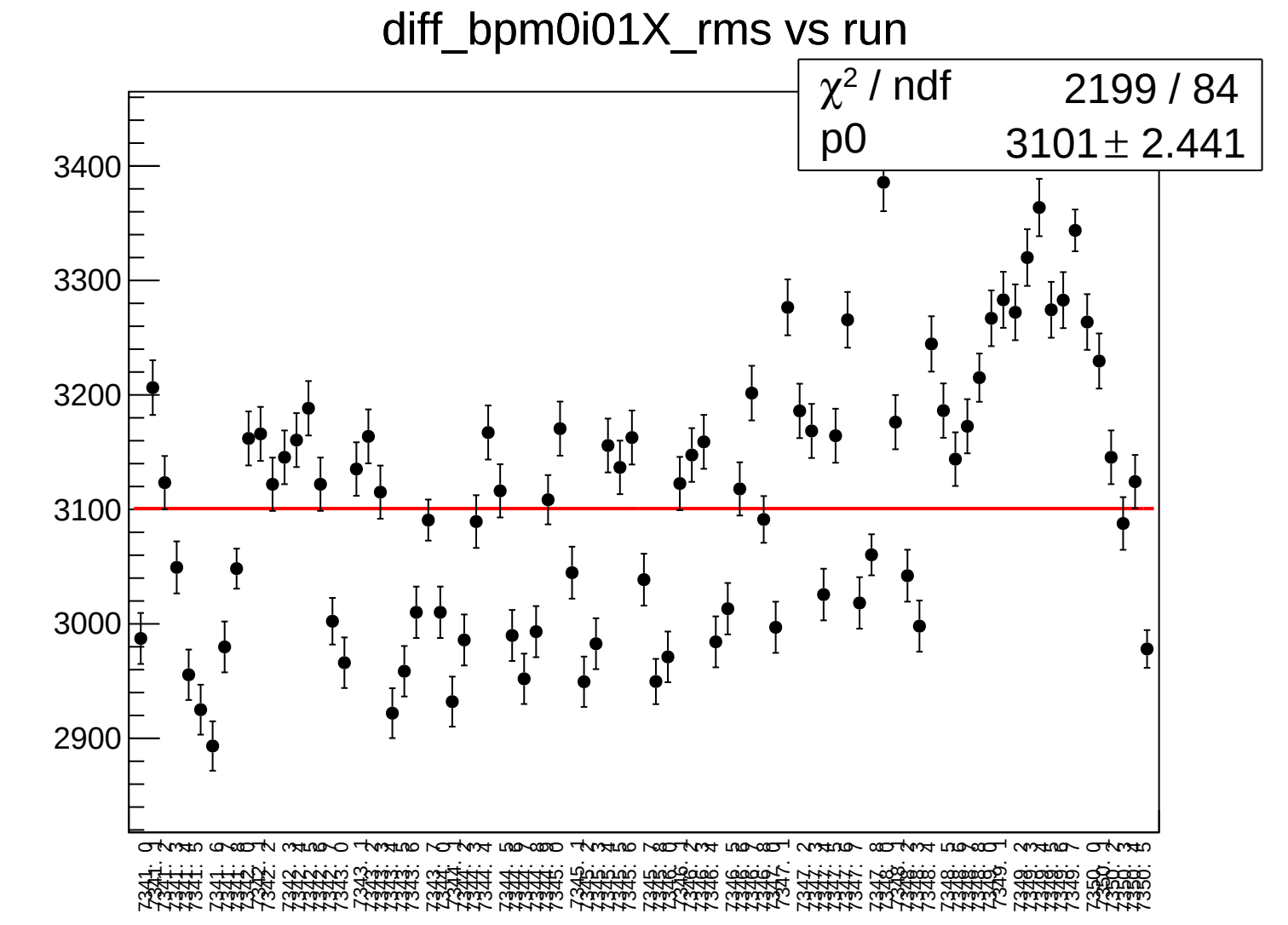

diff_cav4dY_mean vs run
χ^2 / ndf 70.98 / 84
p0 182.3 ± 221.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −49.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

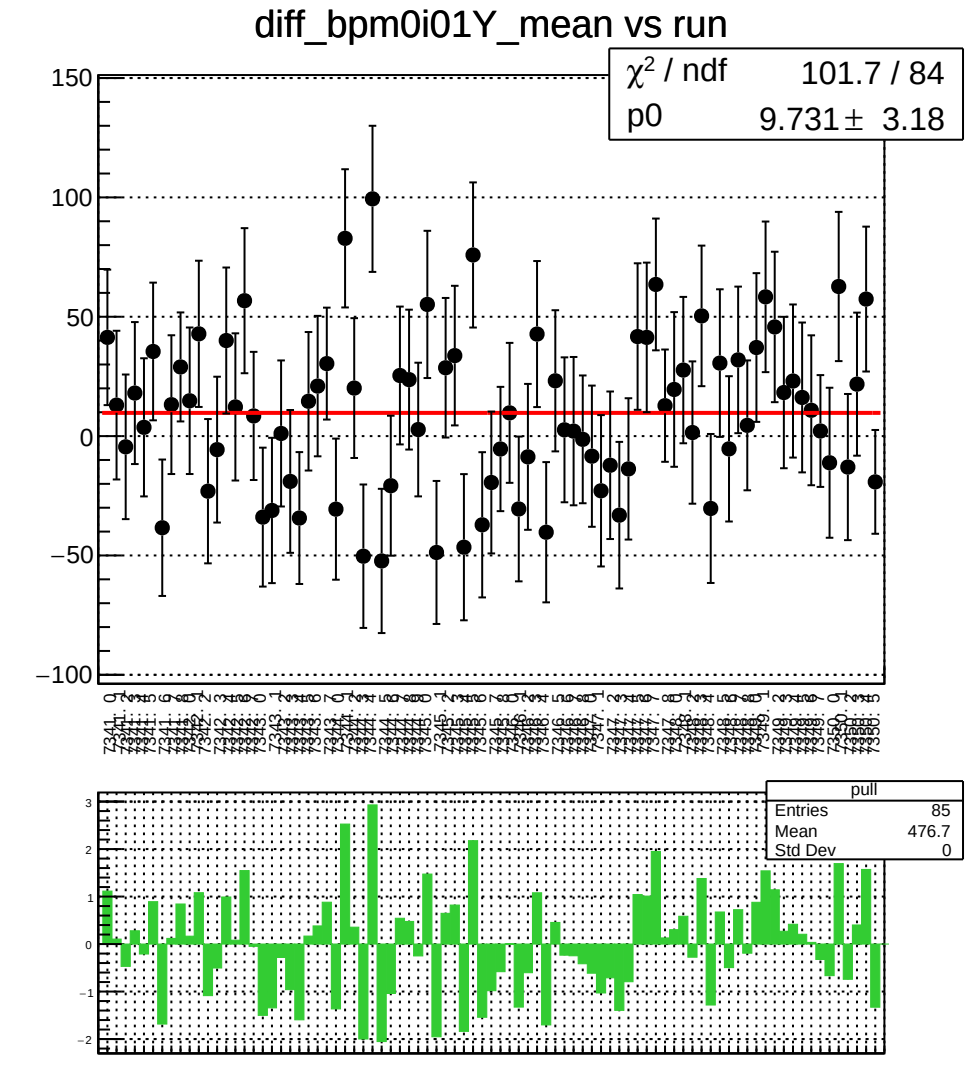

pull1D
Entries 85
Mean −0.02062
Std Dev 0.9136
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

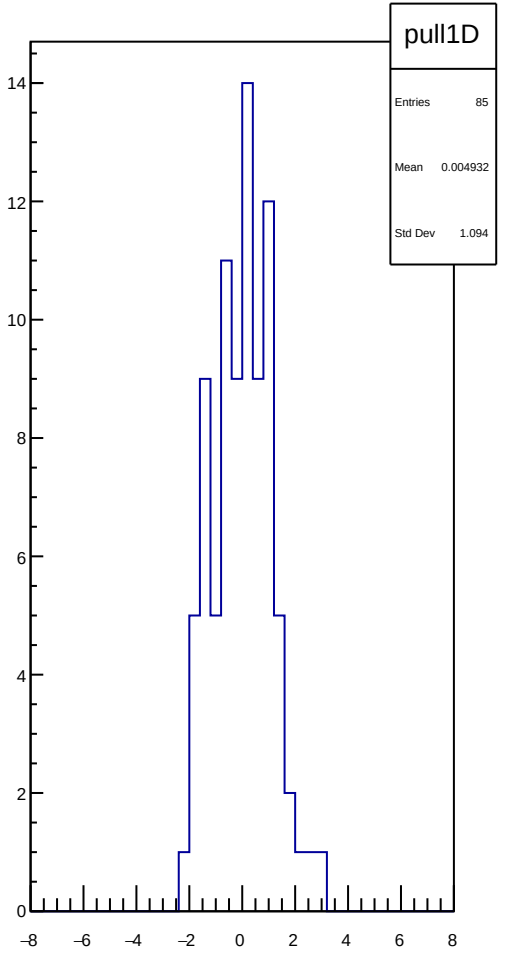

diff_cav4dY_rms vs run
×10^3
230
220
210
200
190
180
170
χ² / ndf 5297 / 84
p0 1.99e+05 ± 156.8

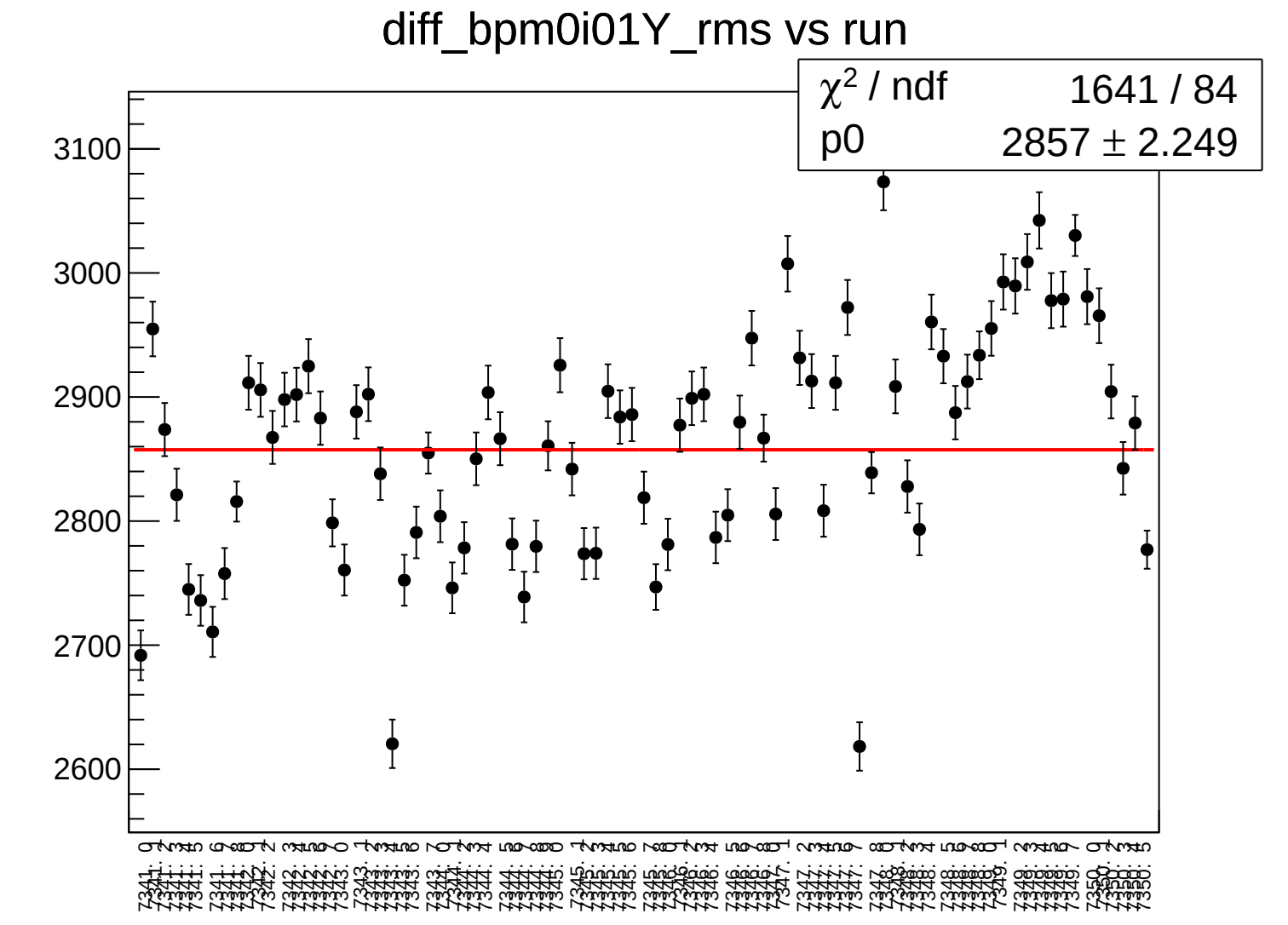

diff_bpm0i01X_mean vs run
χ^2 / ndf 97.04 / 84
p0 14 ± 3.451
150
100
50
0
−50
−100
pull
Entries 85
Mean 240.9
Std Dev 0
3
2
1
0
−1
−2

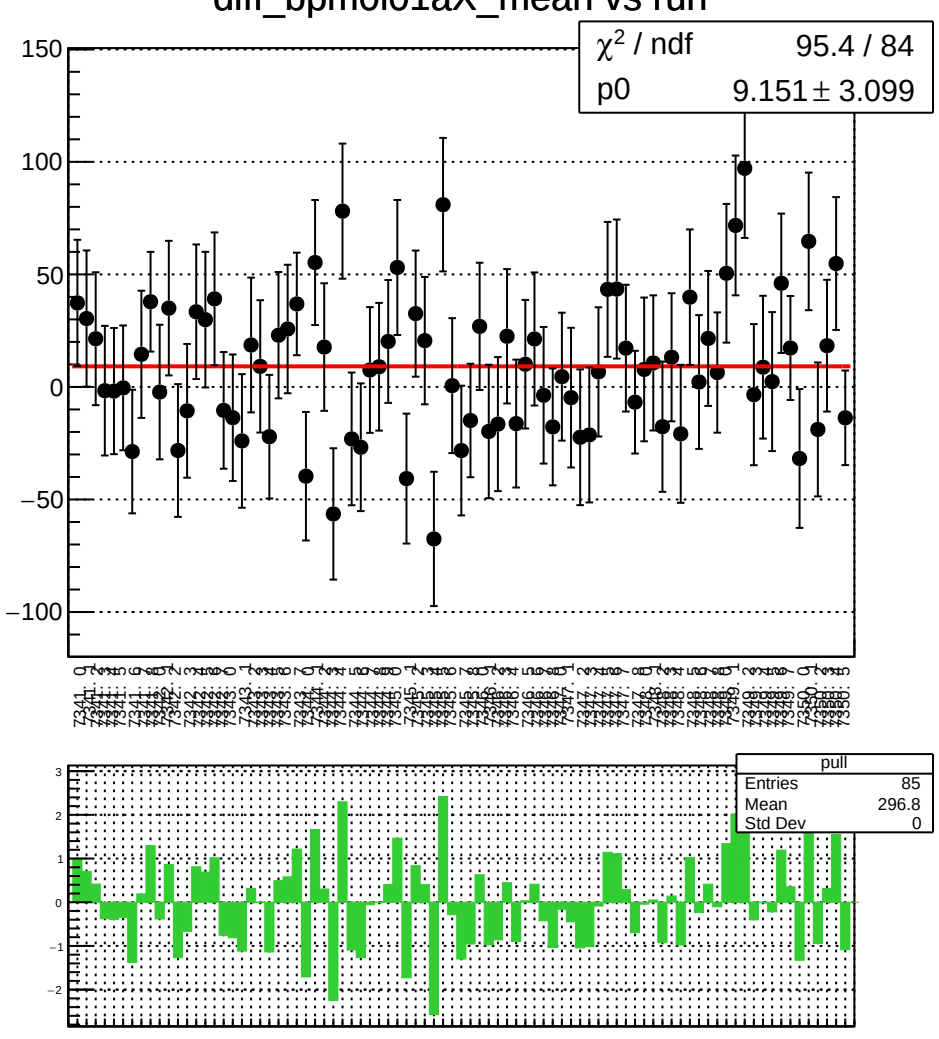

pull1D
Entries 85
Mean 0.007147
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

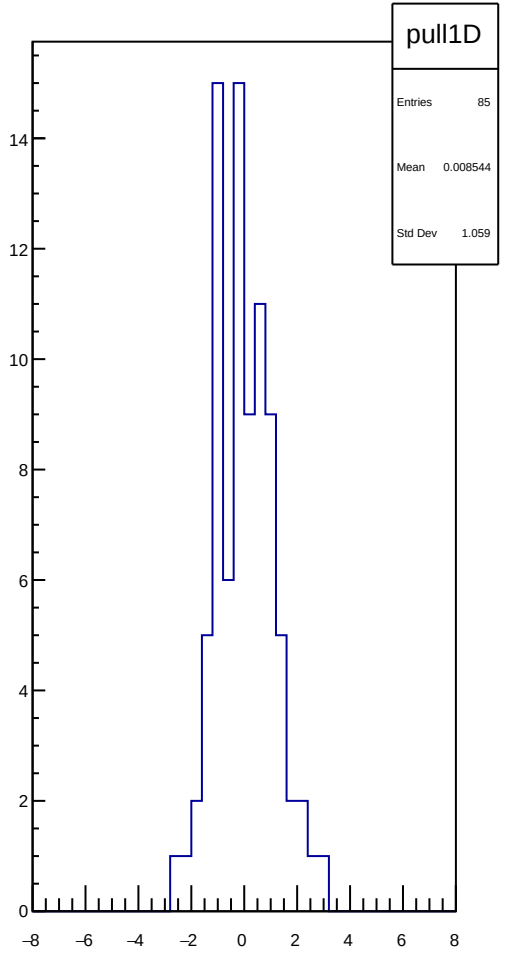

diff_bpm0i01X_rms vs run
χ² / ndf 2199 / 84
p0 3101 ± 2.441
3400
3300
3200
3100
3000
2900

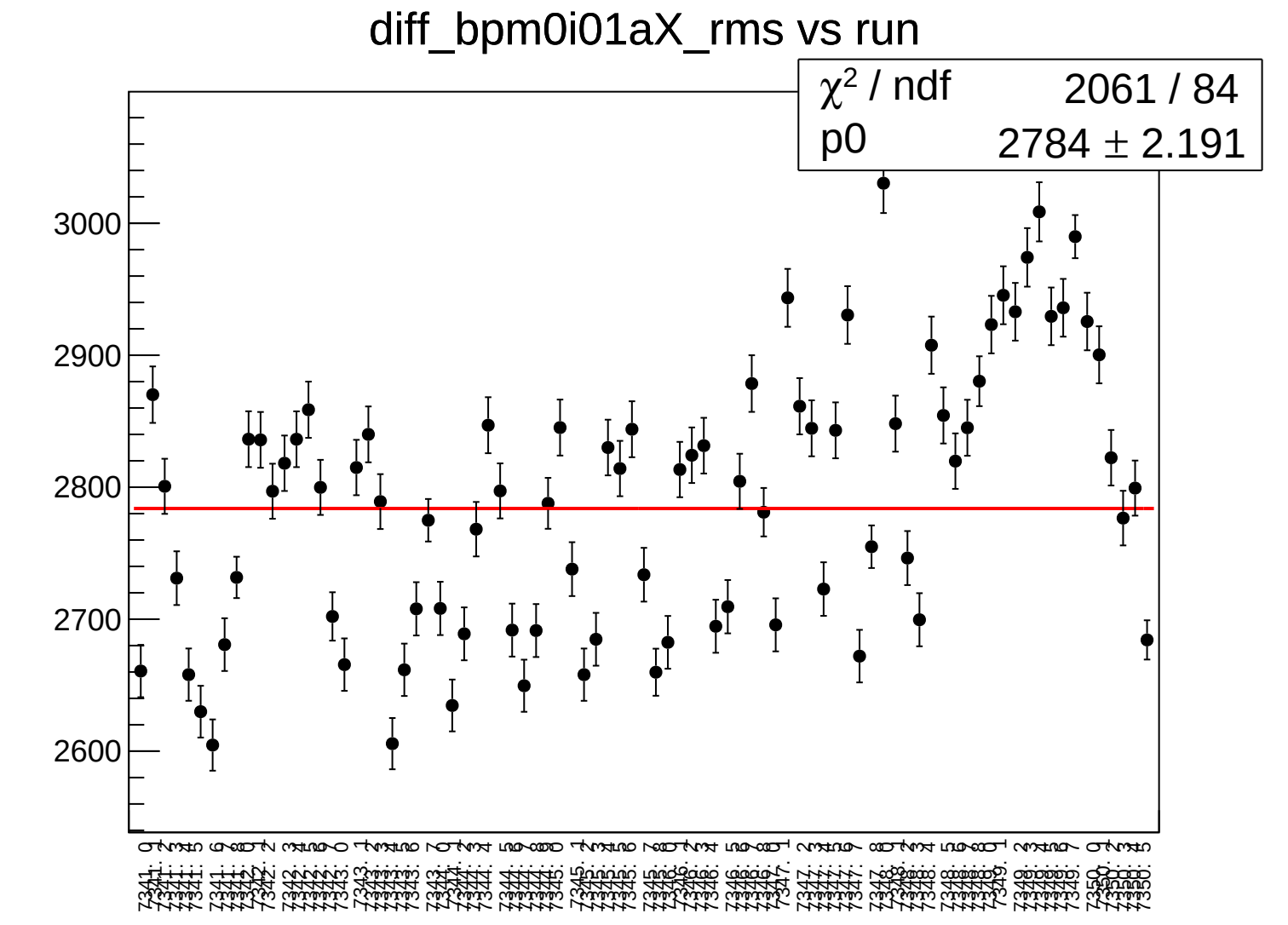

diff_bpm0i01Y_mean vs run
χ² / ndf 101.7 / 84
p0 9.731 ± 3.18
150
100
50
0
−50
−100
pull
Entries 85
Mean 476.7
Std Dev 0
3
2
1
0
−1
−2

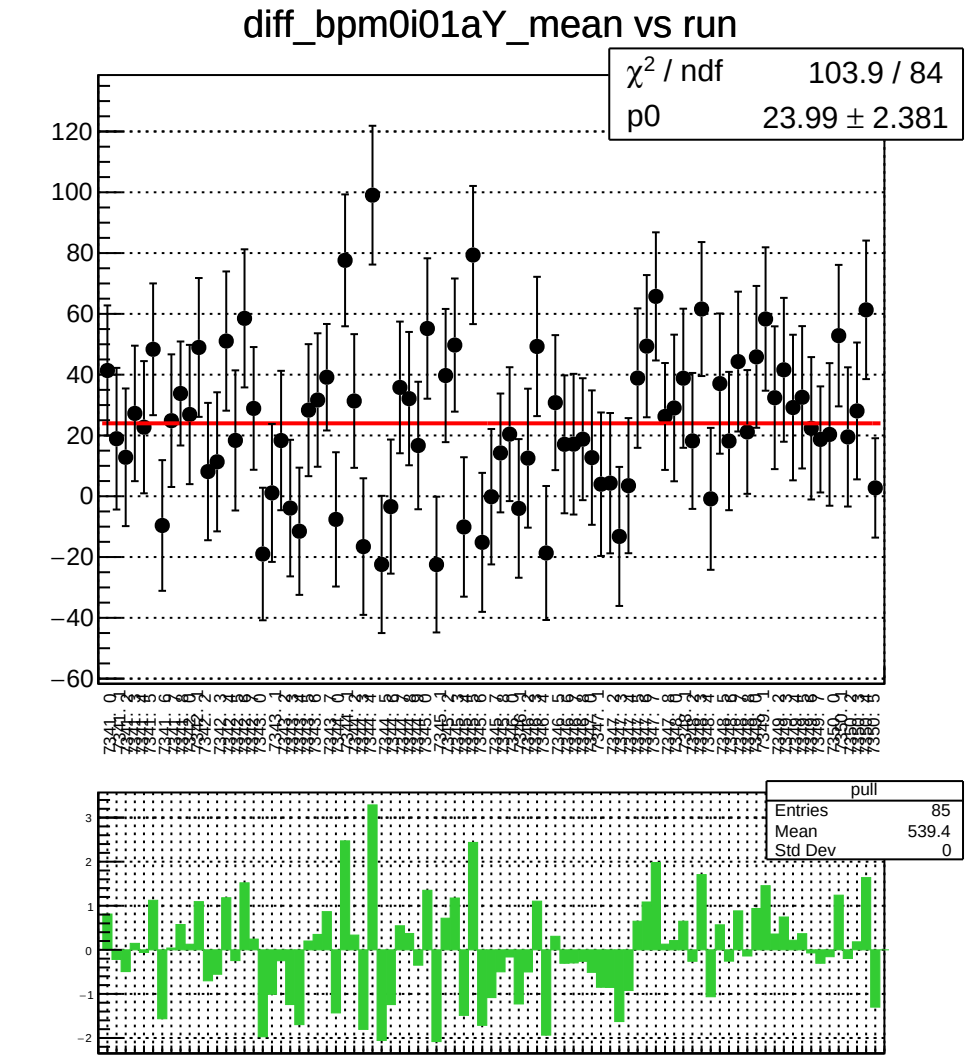

pull1D
Entries 85
Mean 0.004932
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

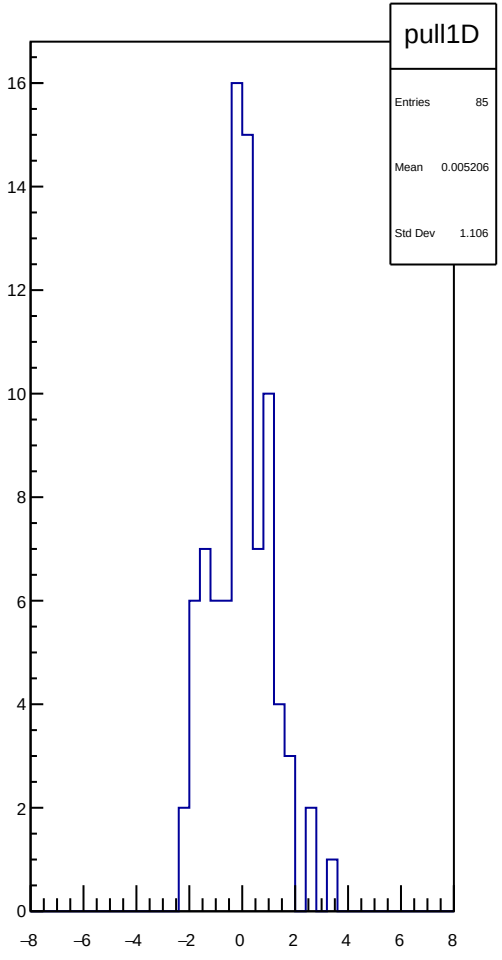

diff_bpm0i01Y_rms vs run
χ² / ndf 1641 / 84
p0 2857 ± 2.249
3100
3000
2900
2800
2700
2600

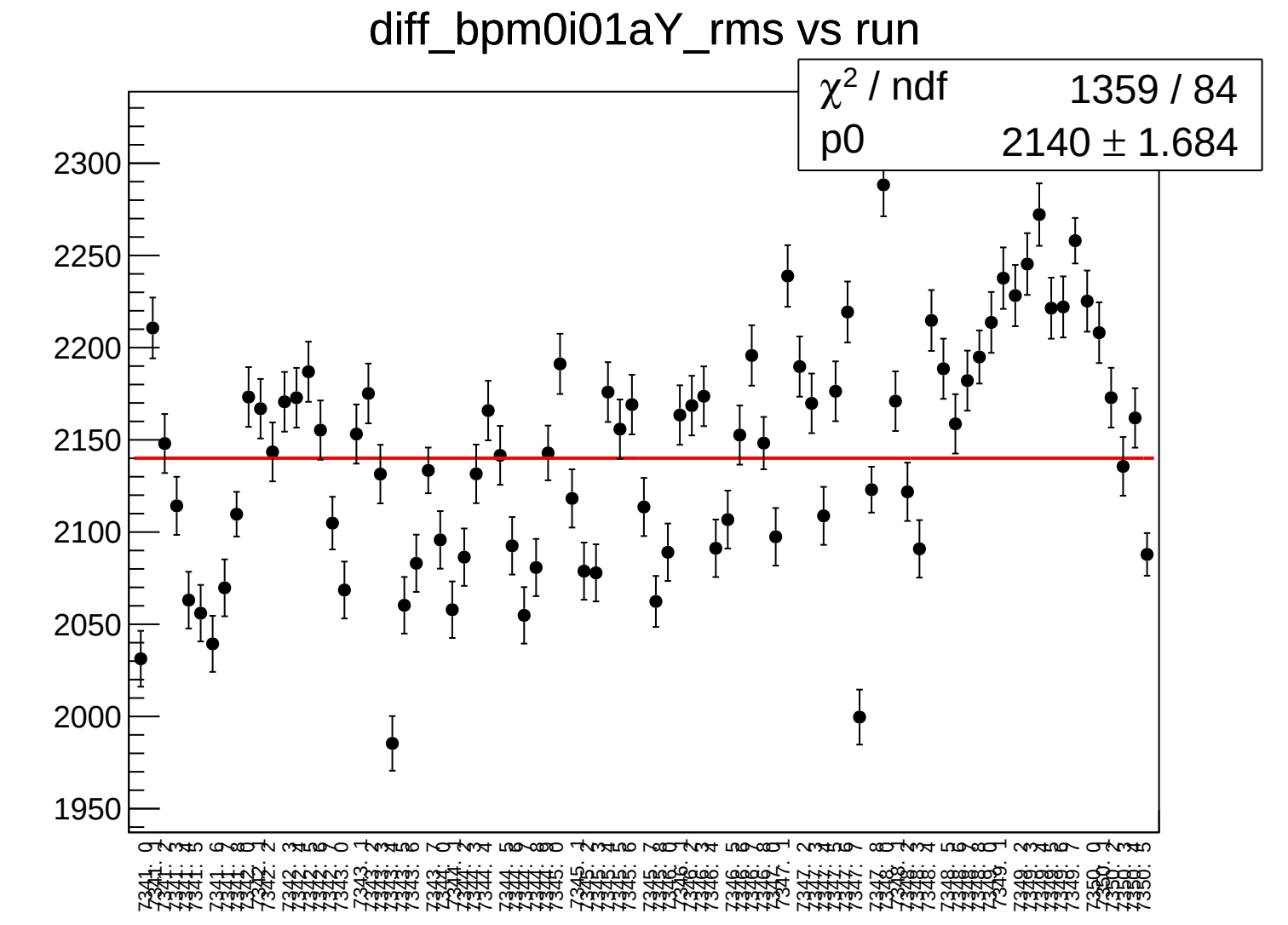

diff_bpm0i01aX_mean vs run
χ^2 / ndf 95.4 / 84
p0 9.151 ± 3.099
150
100
50
0
−50
−100
pull
Entries 85
Mean 296.8
Std Dev 0
3
2
1
0
−1
−2

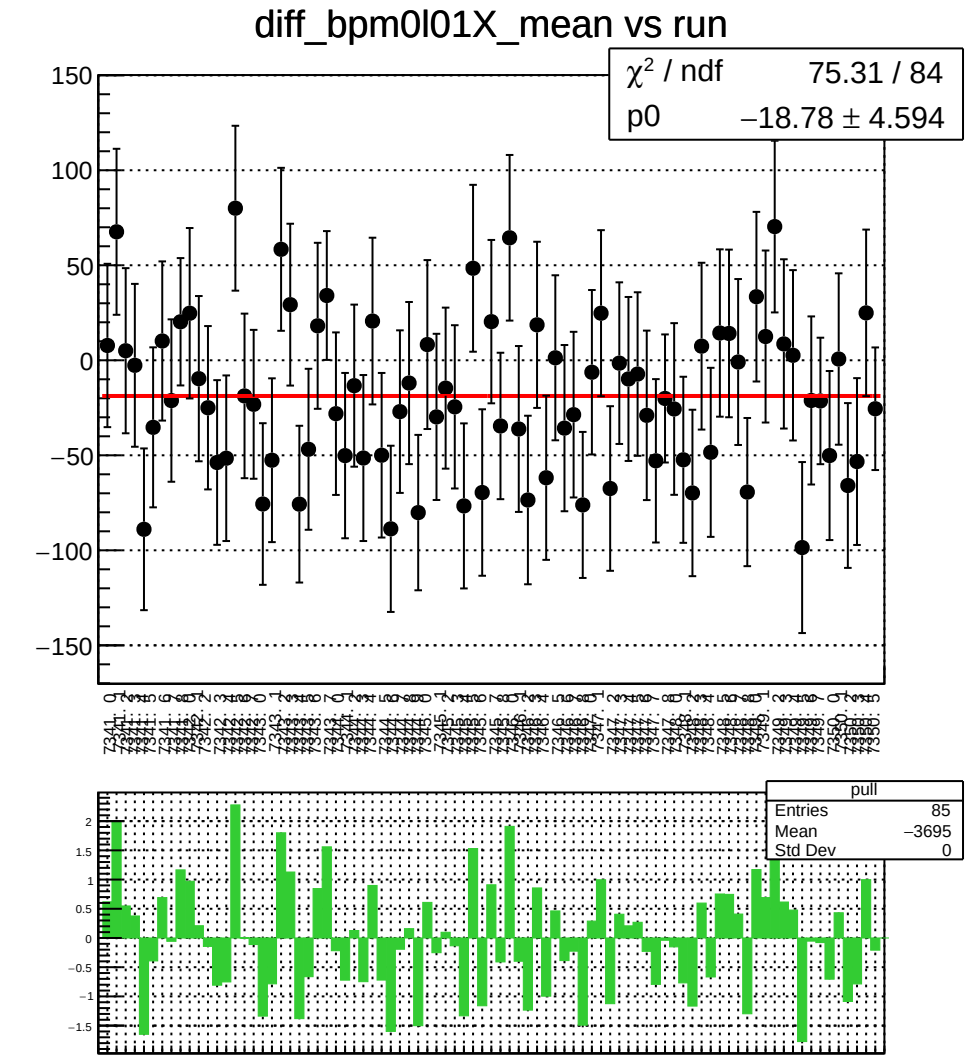

pull1D
Entries 85
Mean 0.008544
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

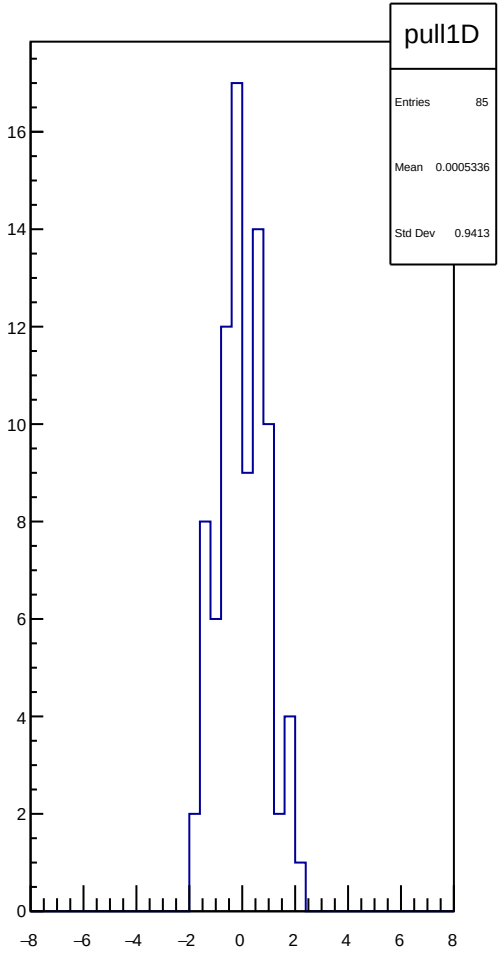

diff_bpm0i01aX_rms vs run
χ² / ndf 2061 / 84
p0 2784 ± 2.191
3000
2900
2800
2700
2600

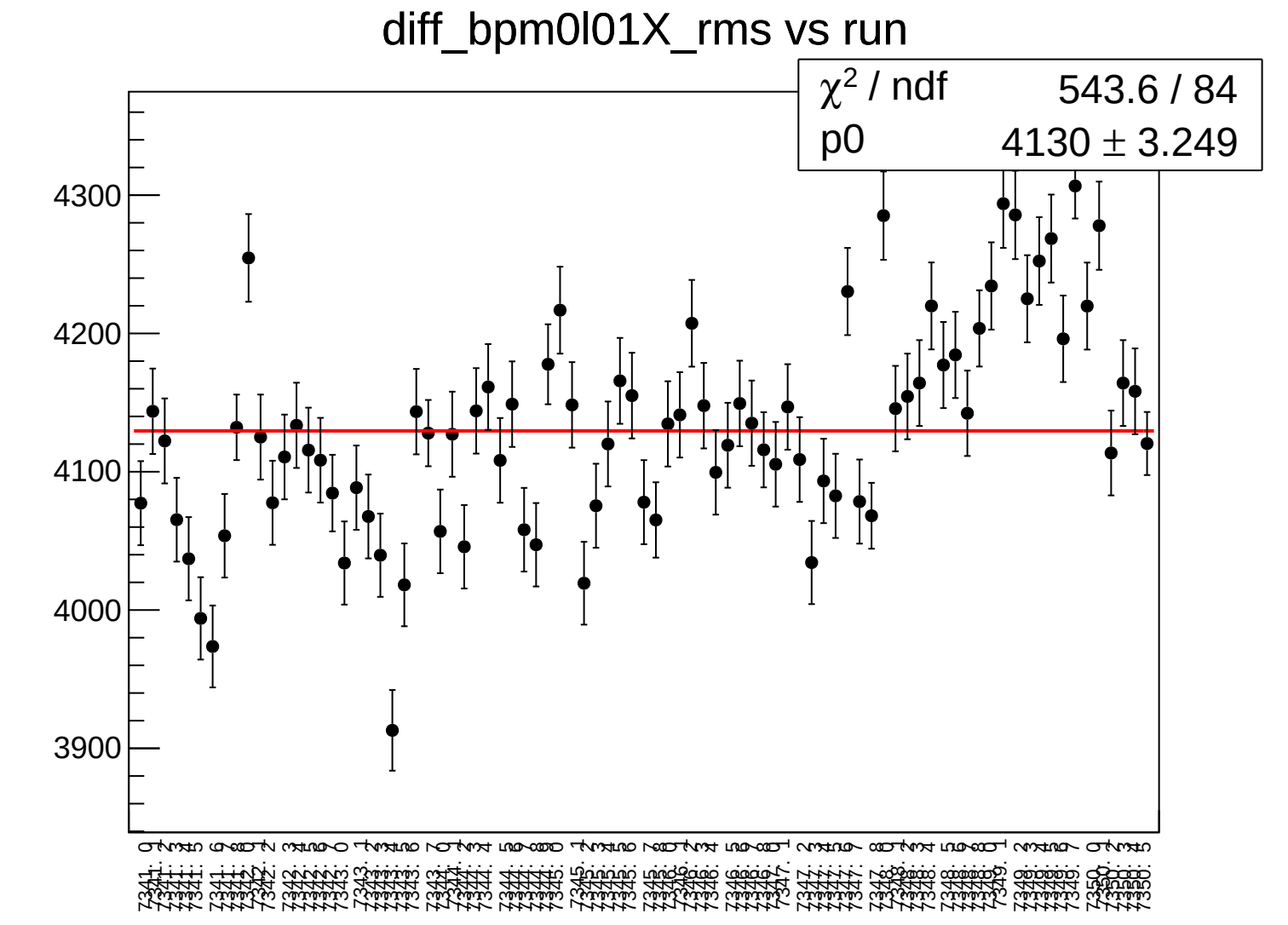

diff_bpm0i01aY_mean vs run
χ^2 / ndf 103.9 / 84
p0 23.99 ± 2.381
pull
Entries 85
Mean 539.4
Std Dev 0

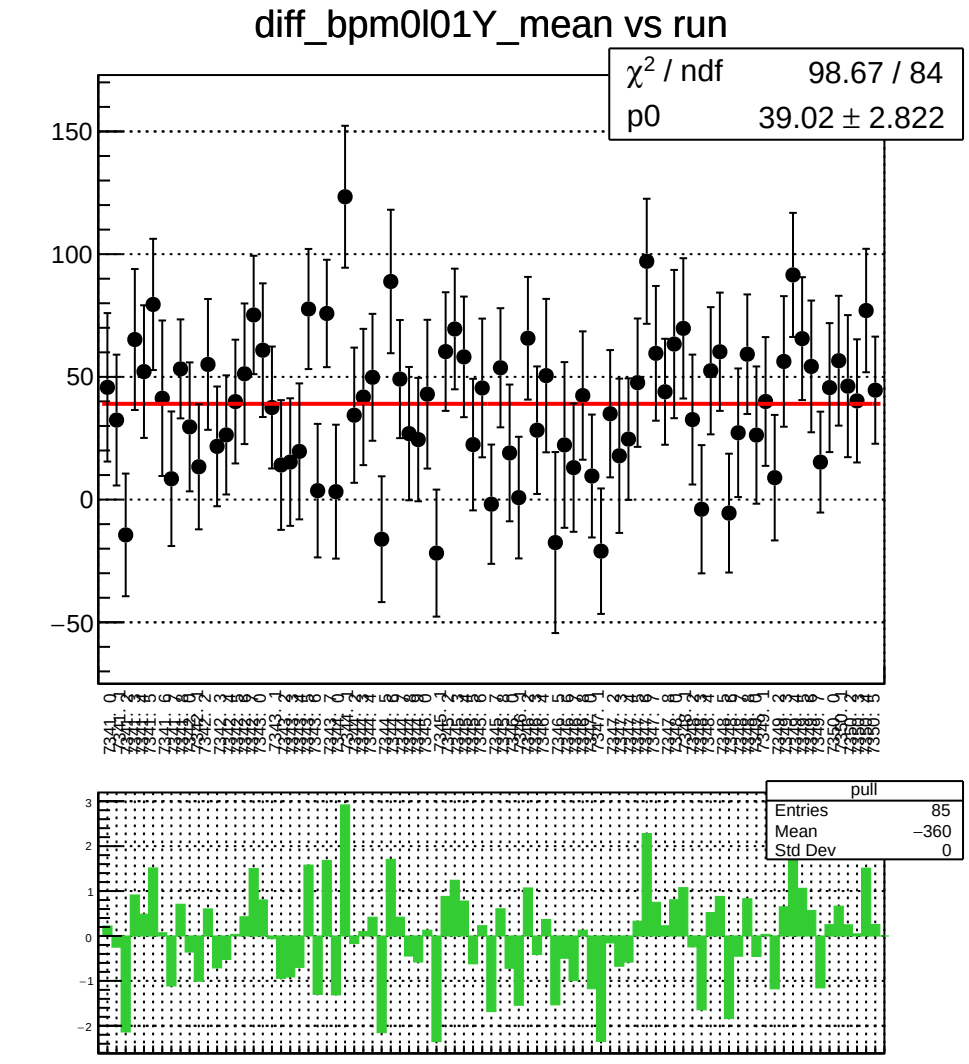

pull1D
Entries 85
Mean 0.005206
Std Dev 1.106

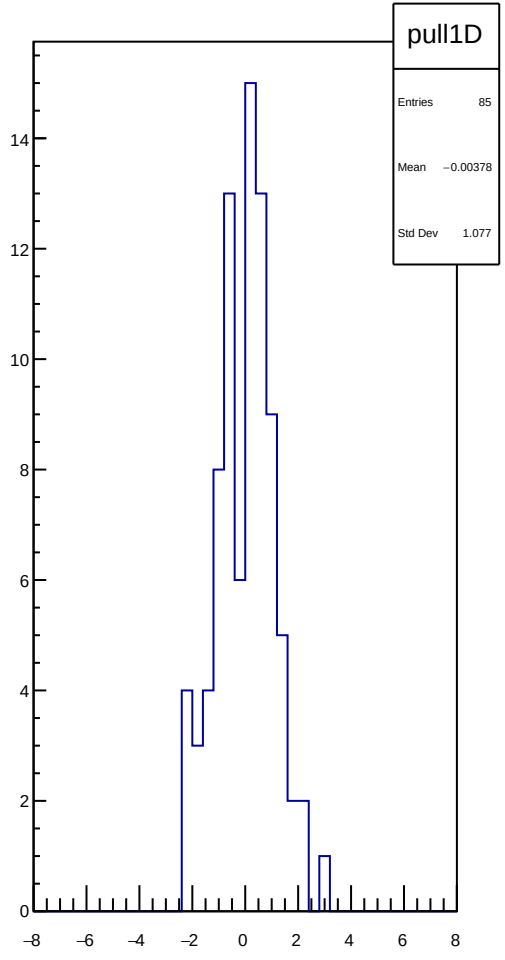

diff_bpm0i01aY_rms vs run
χ² / ndf 1359 / 84
p0 2140 ± 1.684
2300
2250
2200
2150
2100
2050
2000
1950

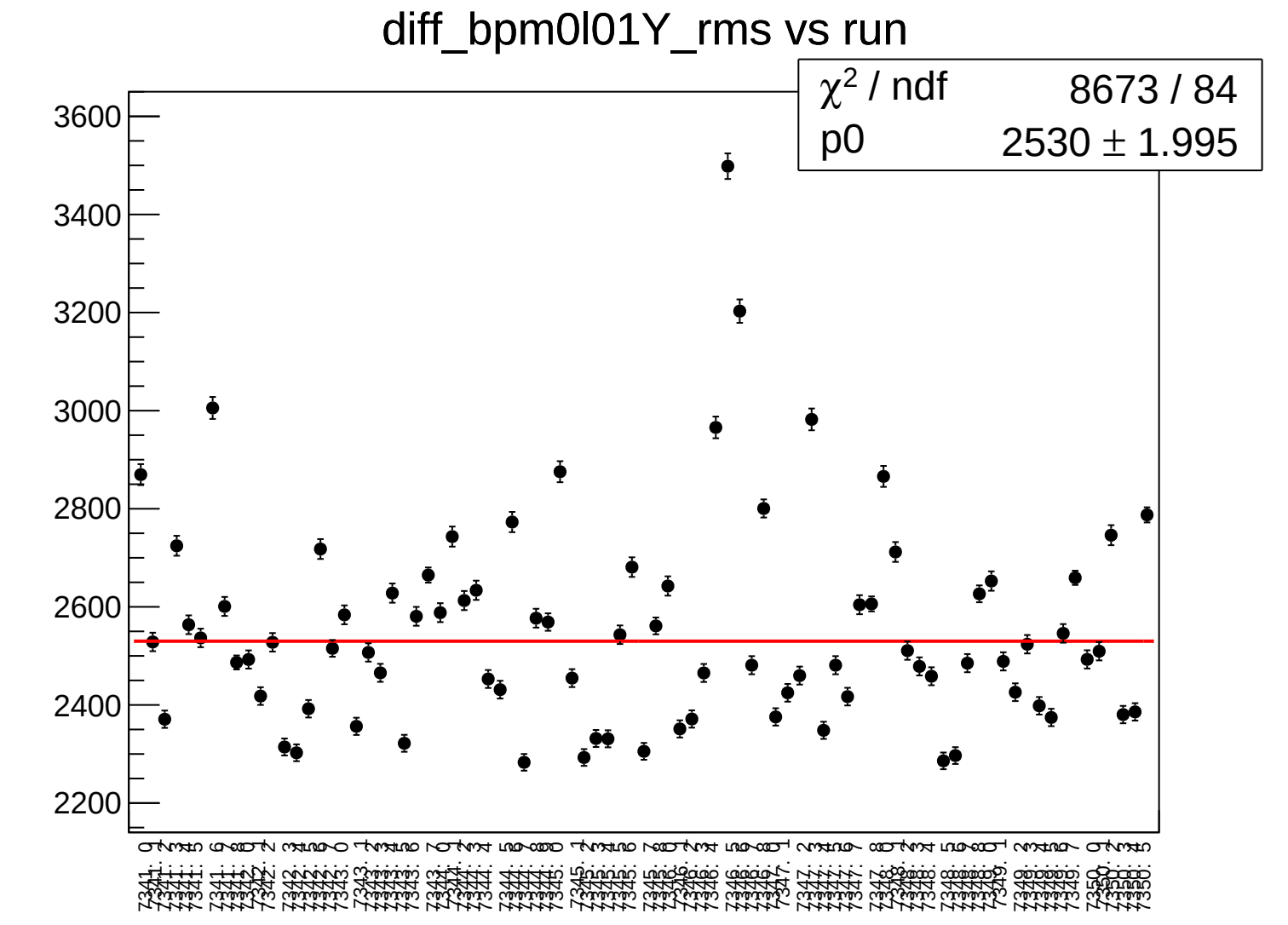

diff_bpm0l01X_mean vs run
χ² / ndf 75.31 / 84
p0 −18.78 ± 4.594
pull
Entries 85
Mean −3695
Std Dev 0

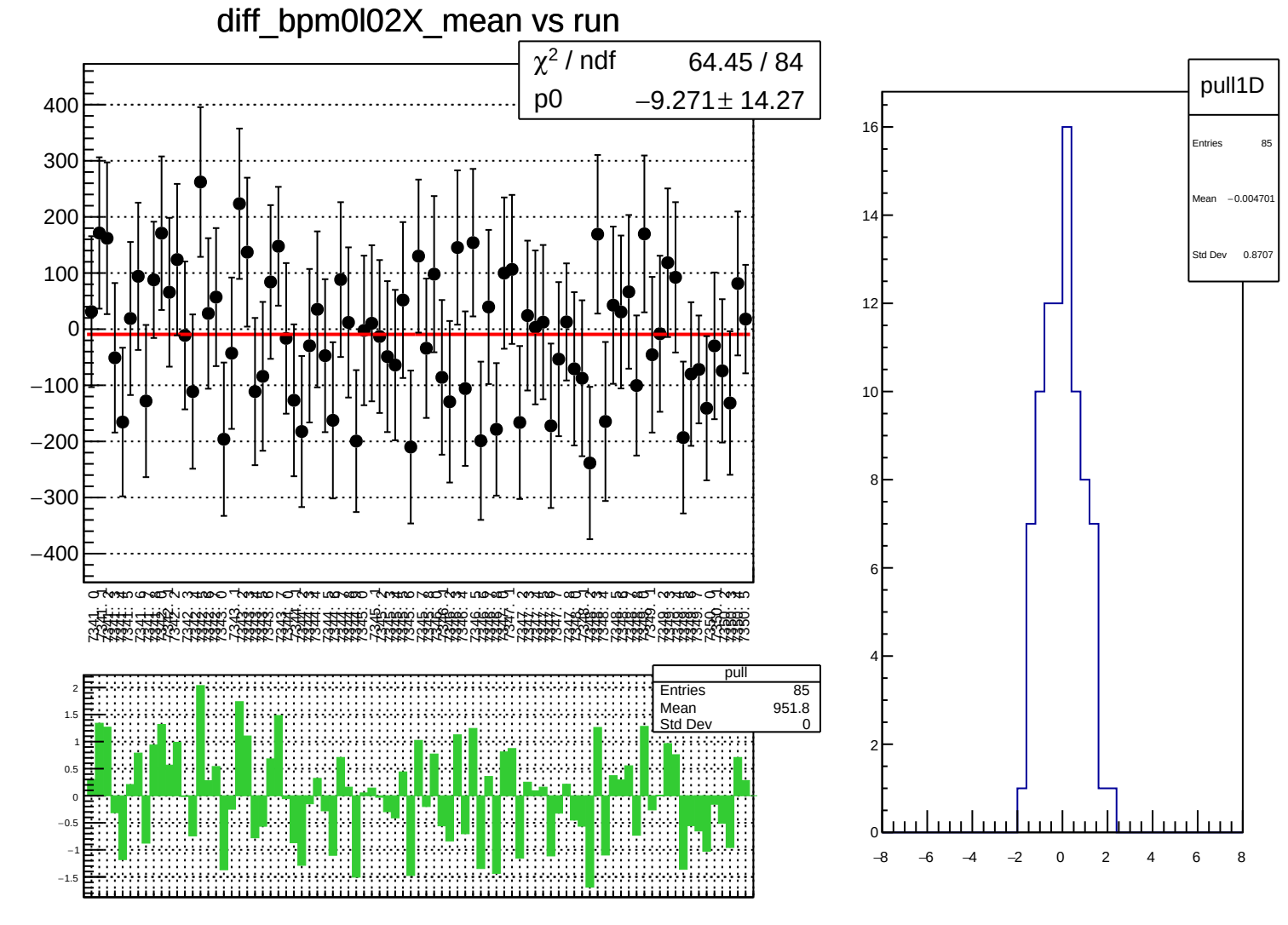

pull1D
Entries 85
Mean 0.0005336
Std Dev 0.9413

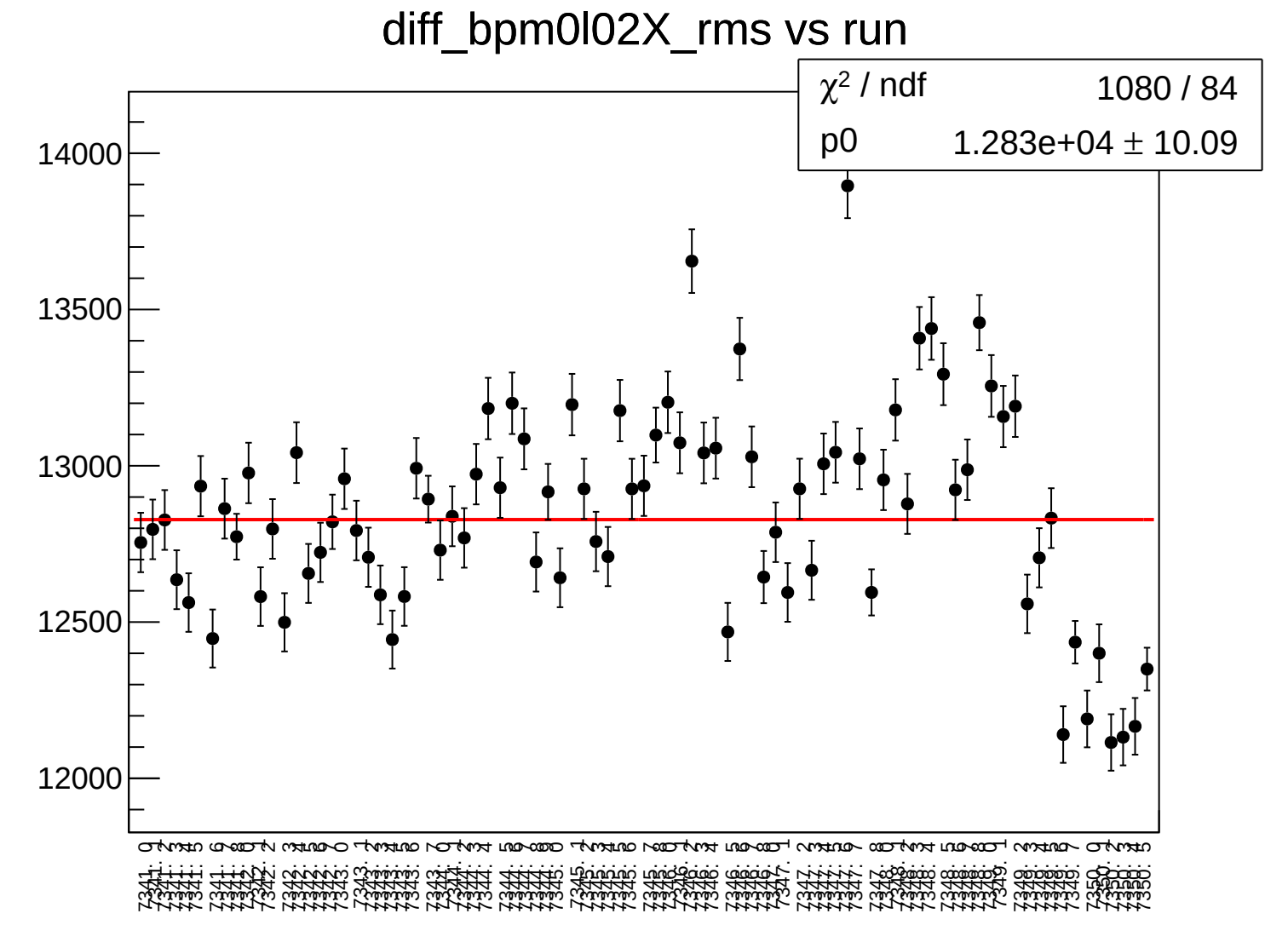

diff_bpm0l01X_rms vs run
χ² / ndf 543.6 / 84
p0 4130 ± 3.249
4300
4200
4100
4000
3900

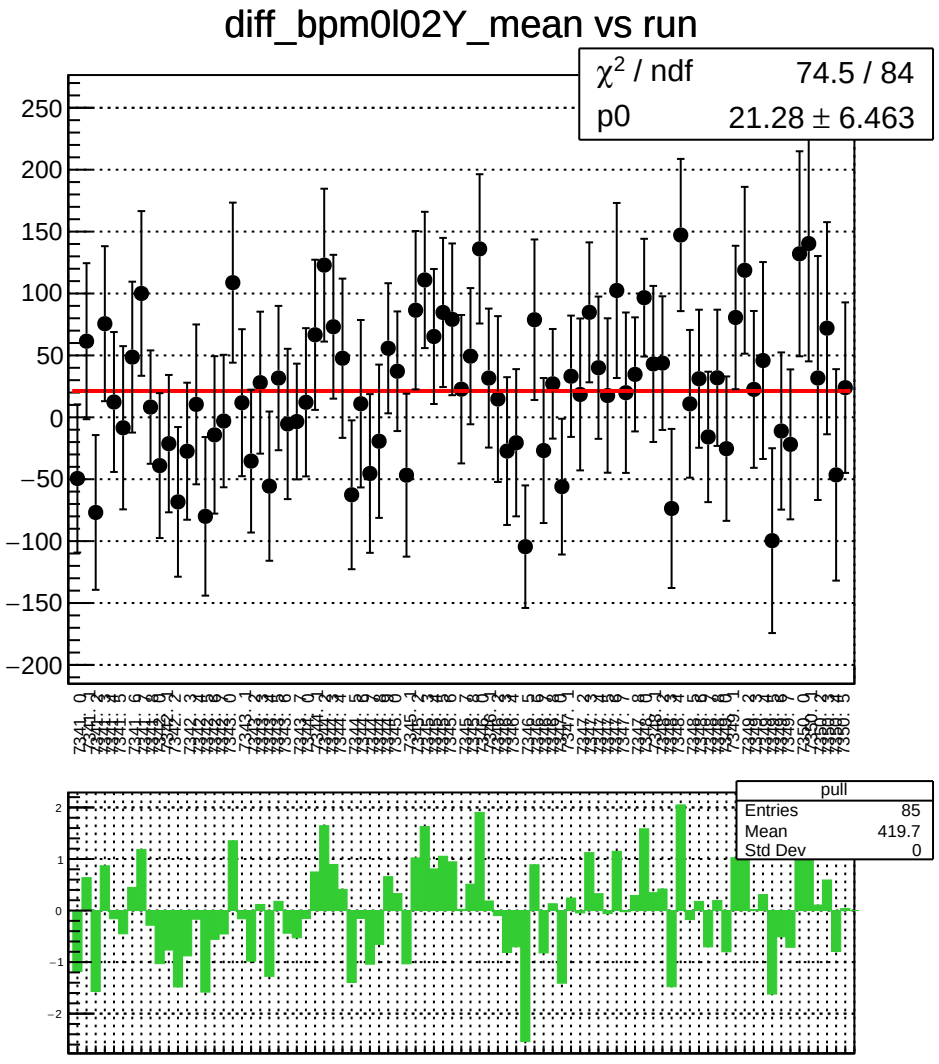

diff_bpm0l01Y_mean vs run
χ² / ndf 98.67 / 84
p0 39.02 ± 2.822
150
100
50
0
−50
pull
Entries 85
Mean −360
Std Dev 0
3
2
1
0
−1
−2

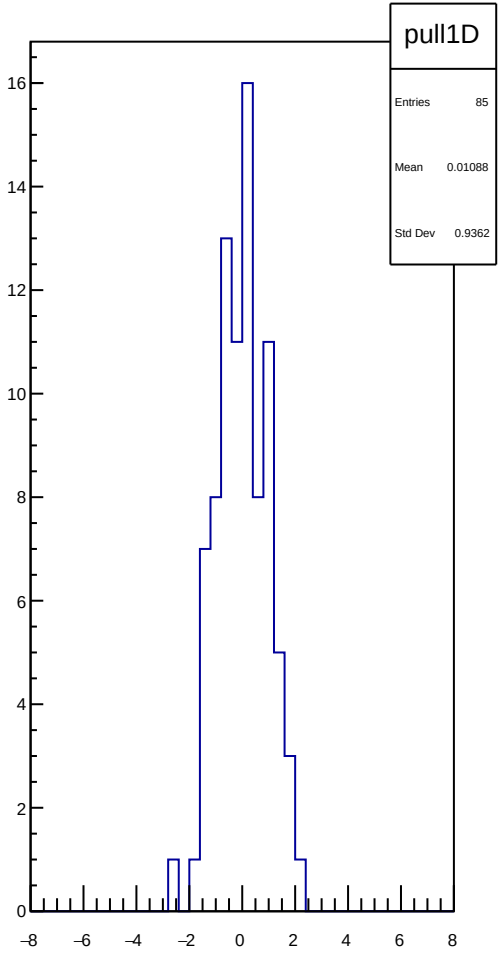

pull1D
Entries 85
Mean −0.00378
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

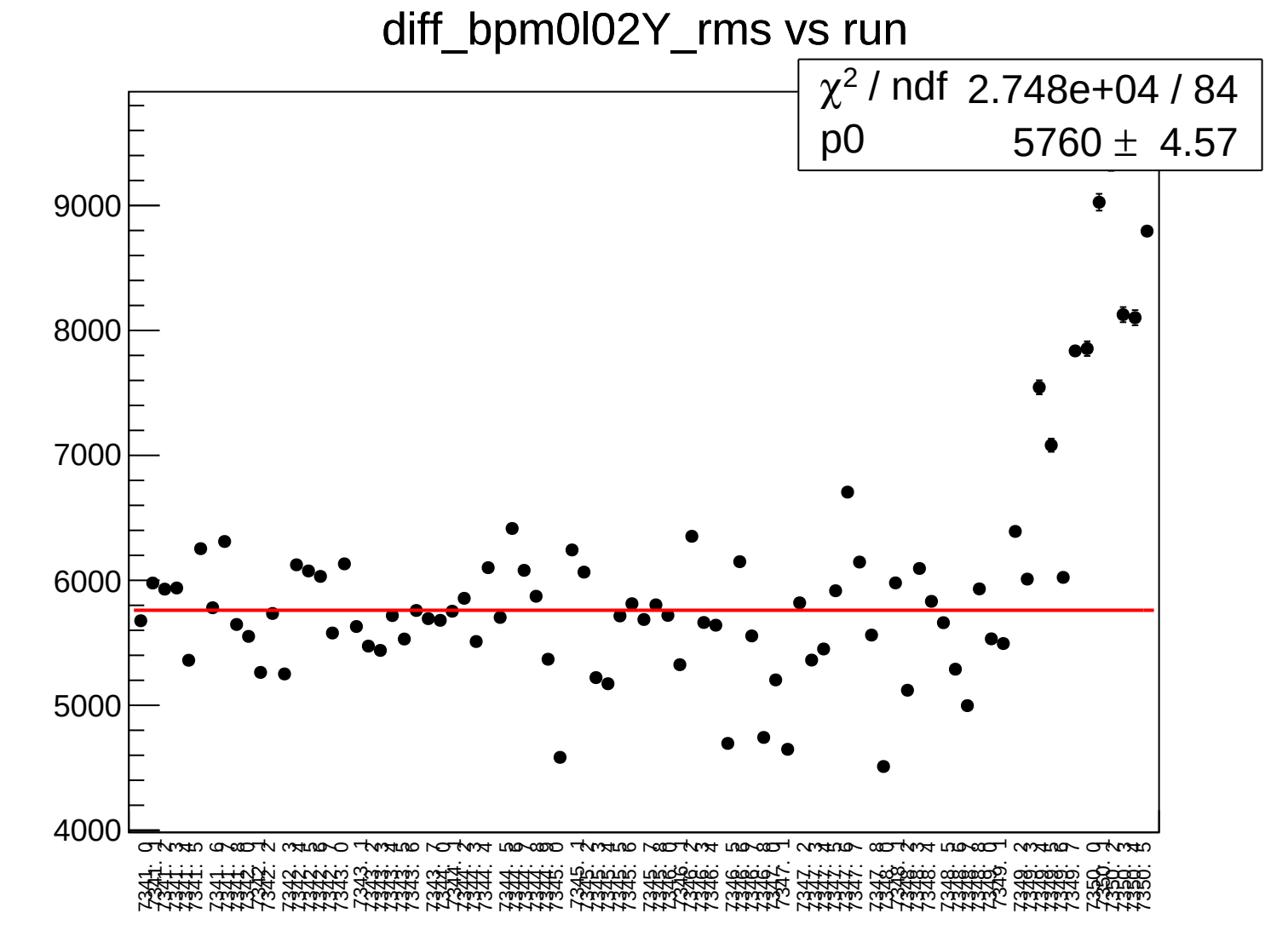

diff_bpm0l01Y_rms vs run
χ² / ndf 8673 / 84
p0 2530 ± 1.995
3600
3400
3200
3000
2800
2600
2400
2200

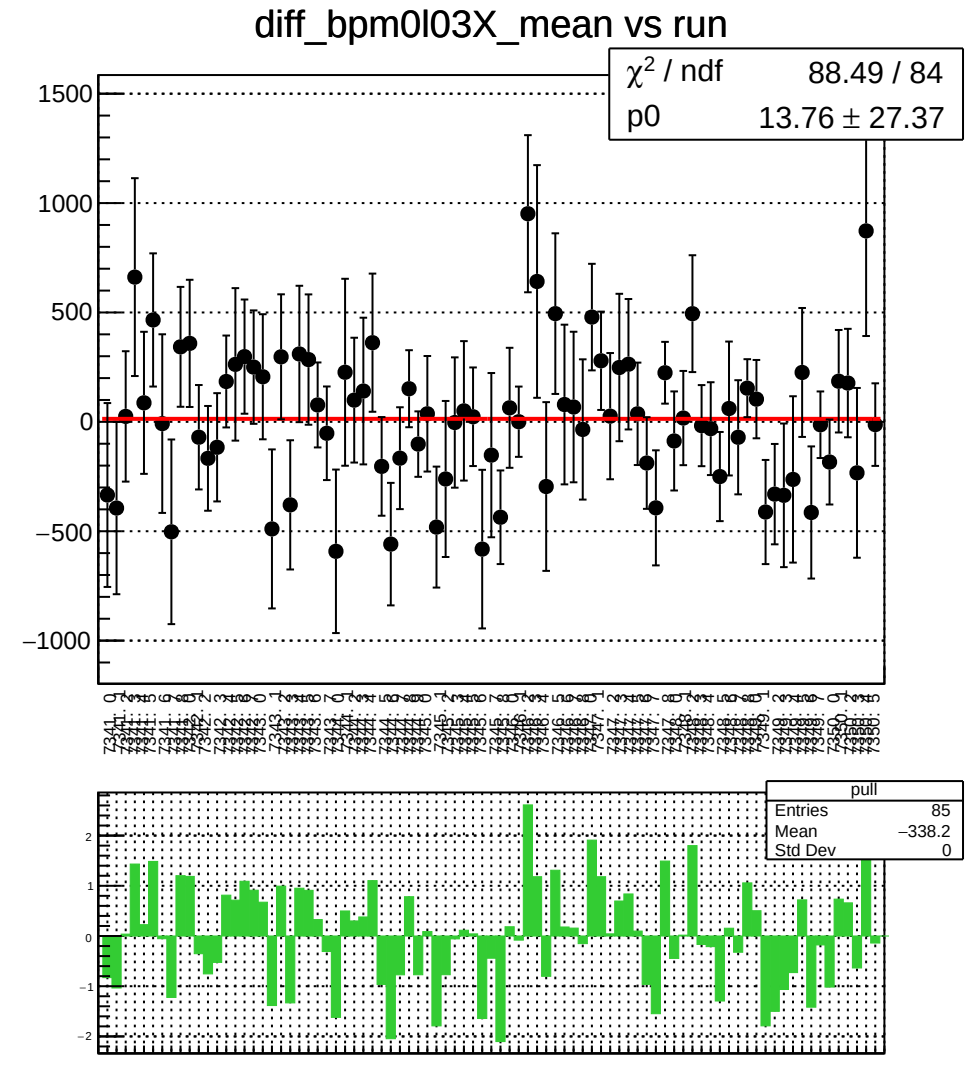

diff_bpm0l02X_mean vs run
χ² / ndf 64.45 / 84
p0 −9.271 ± 14.27
pull
Entries 85
Mean 951.8
Std Dev 0
pull1D
Entries 85
Mean −0.004701
Std Dev 0.8707

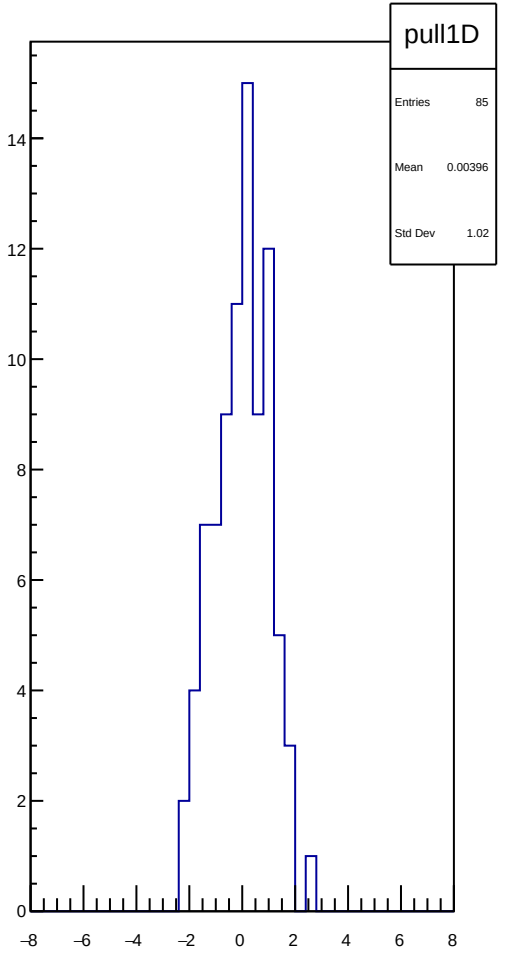

diff_bpm0l02X_rms vs run
χ² / ndf 1080 / 84
p0 1.283e+04 ± 10.09
14000
13500
13000
12500
12000

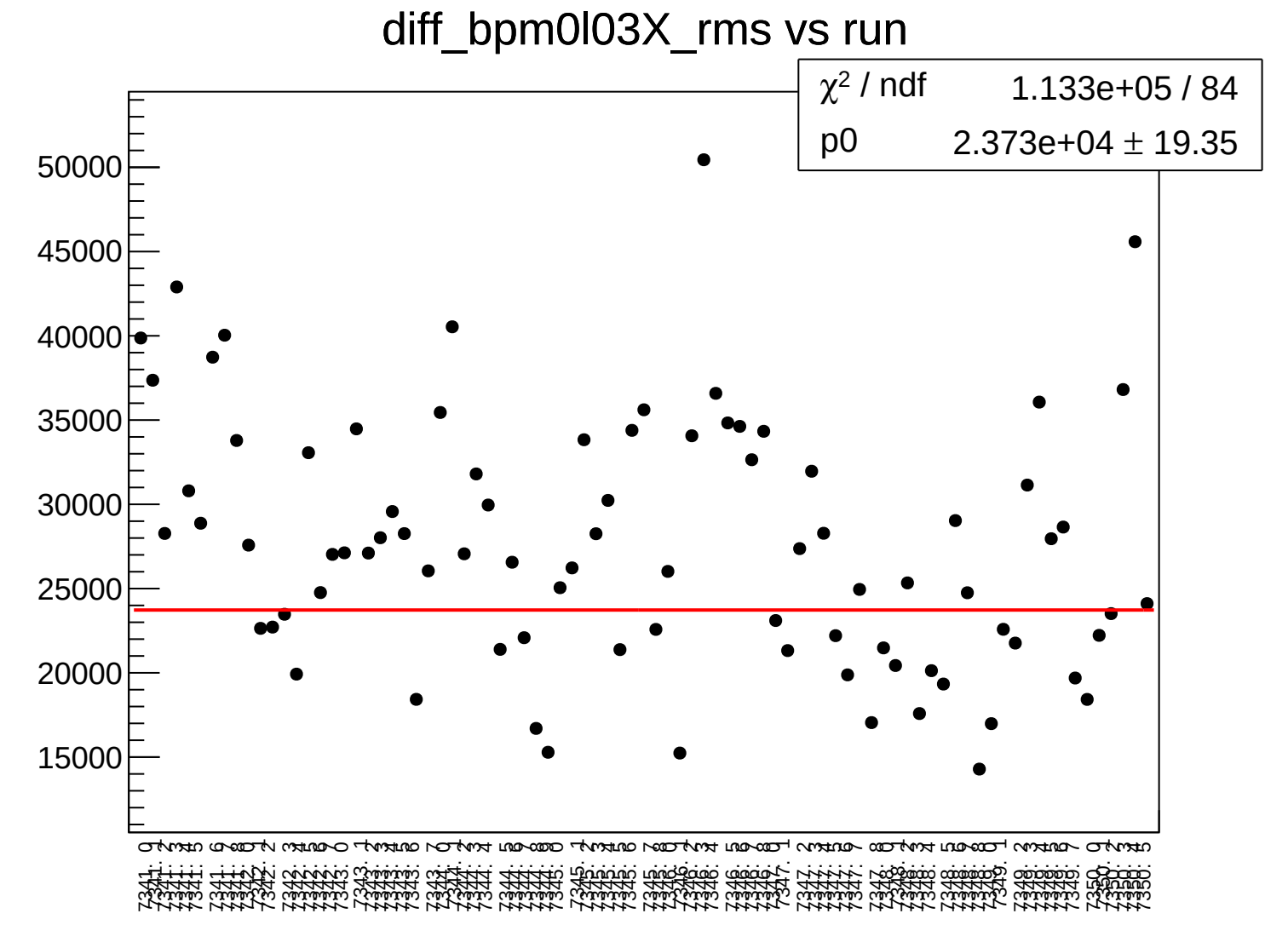

diff_bpm0l02Y_mean vs run
χ² / ndf 74.5 / 84
p0 21.28 ± 6.463
pull
Entries 85
Mean 419.7
Std Dev 0

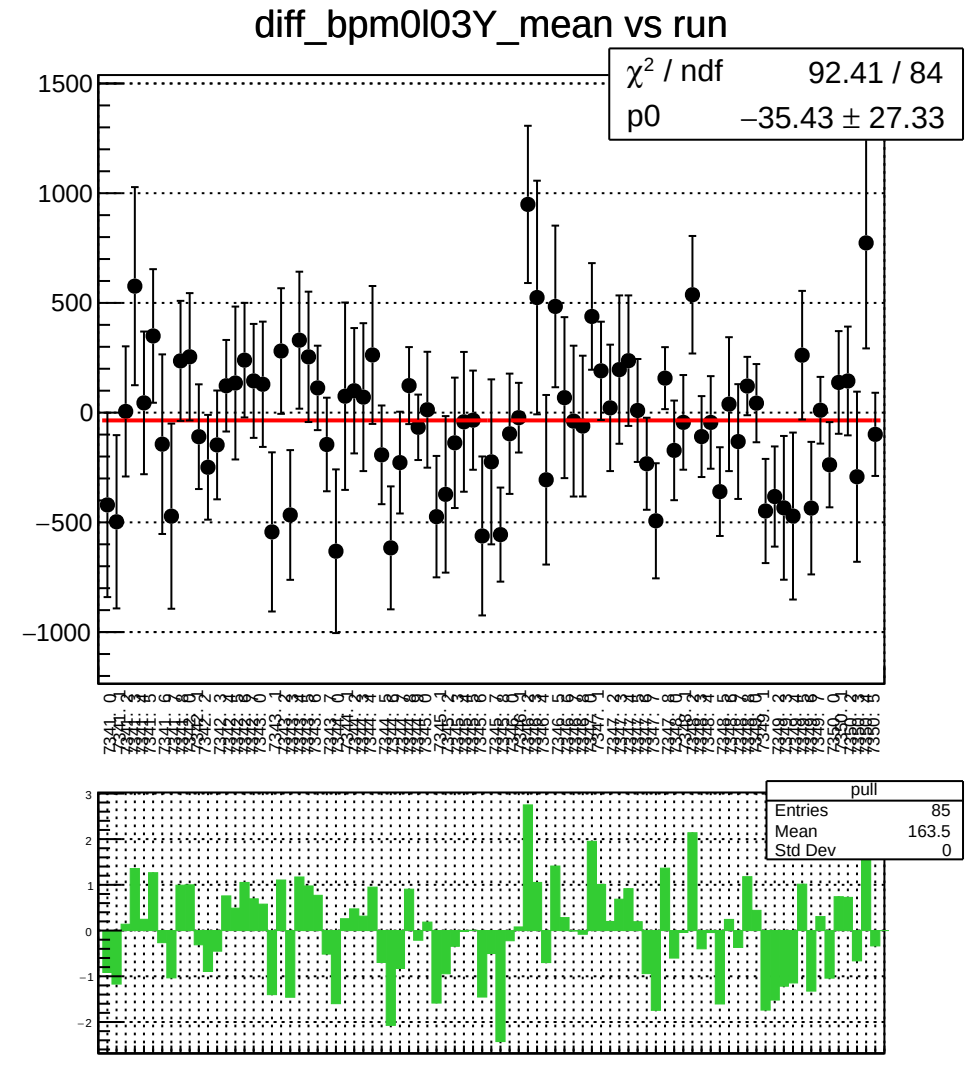

pull1D
Entries 85
Mean 0.01088
Std Dev 0.9362

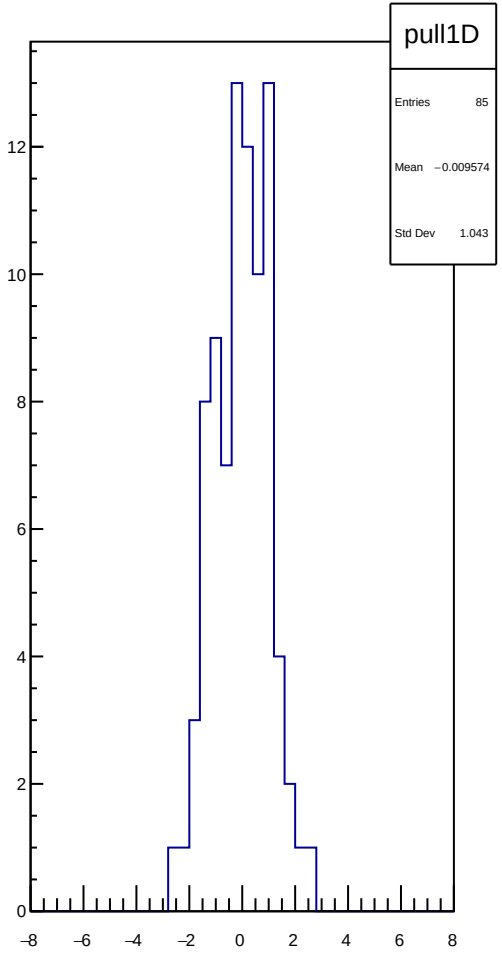

diff_bpm0l02Y_rms vs run
χ² / ndf 2.748e+04 / 84
p0 5760 ± 4.57
9000
8000
7000
6000
5000
4000

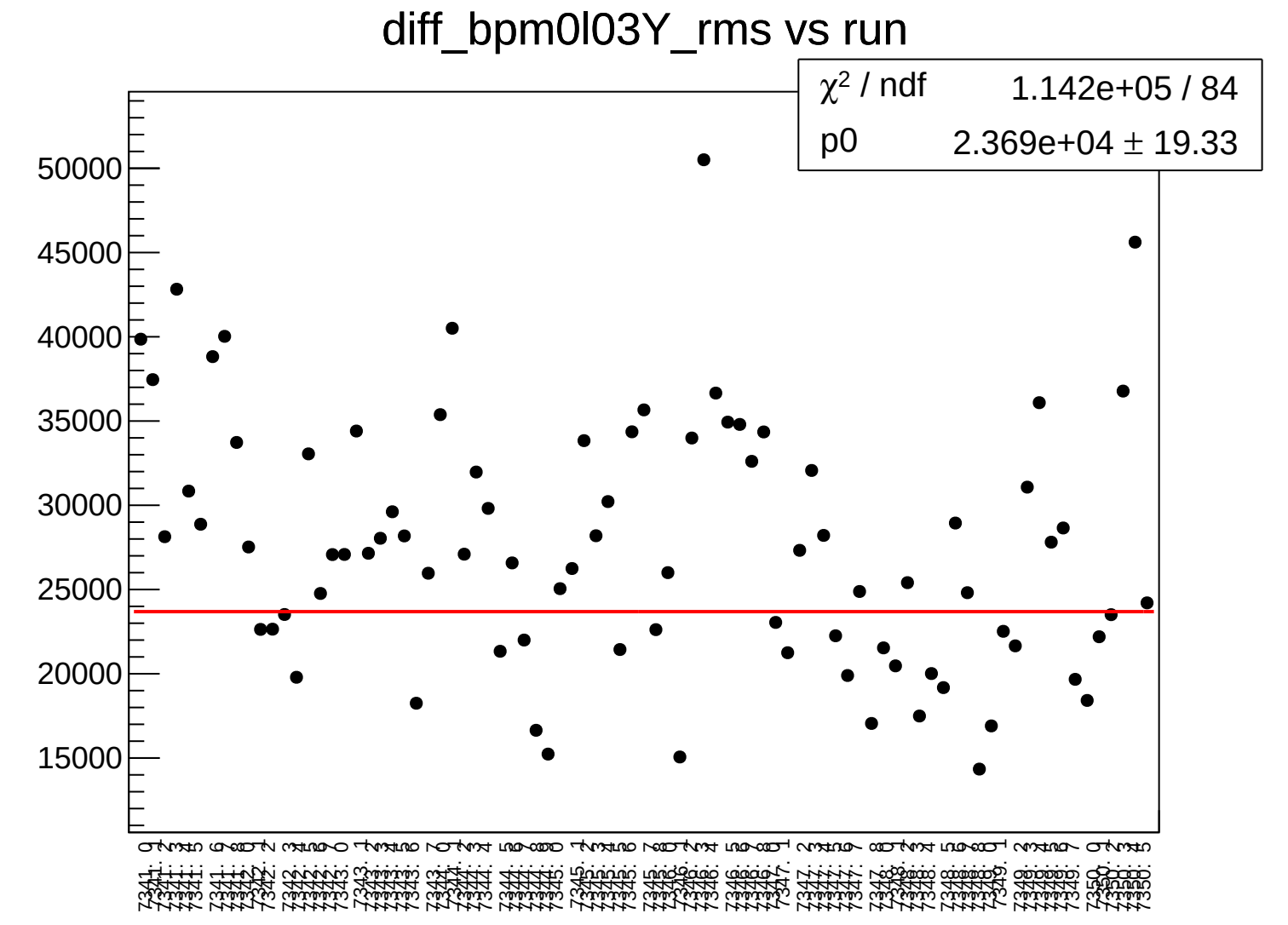

diff_bpm0l03X_mean vs run
χ² / ndf 88.49 / 84
p0 13.76 ± 27.37
pull
Entries 85
Mean −338.2
Std Dev 0

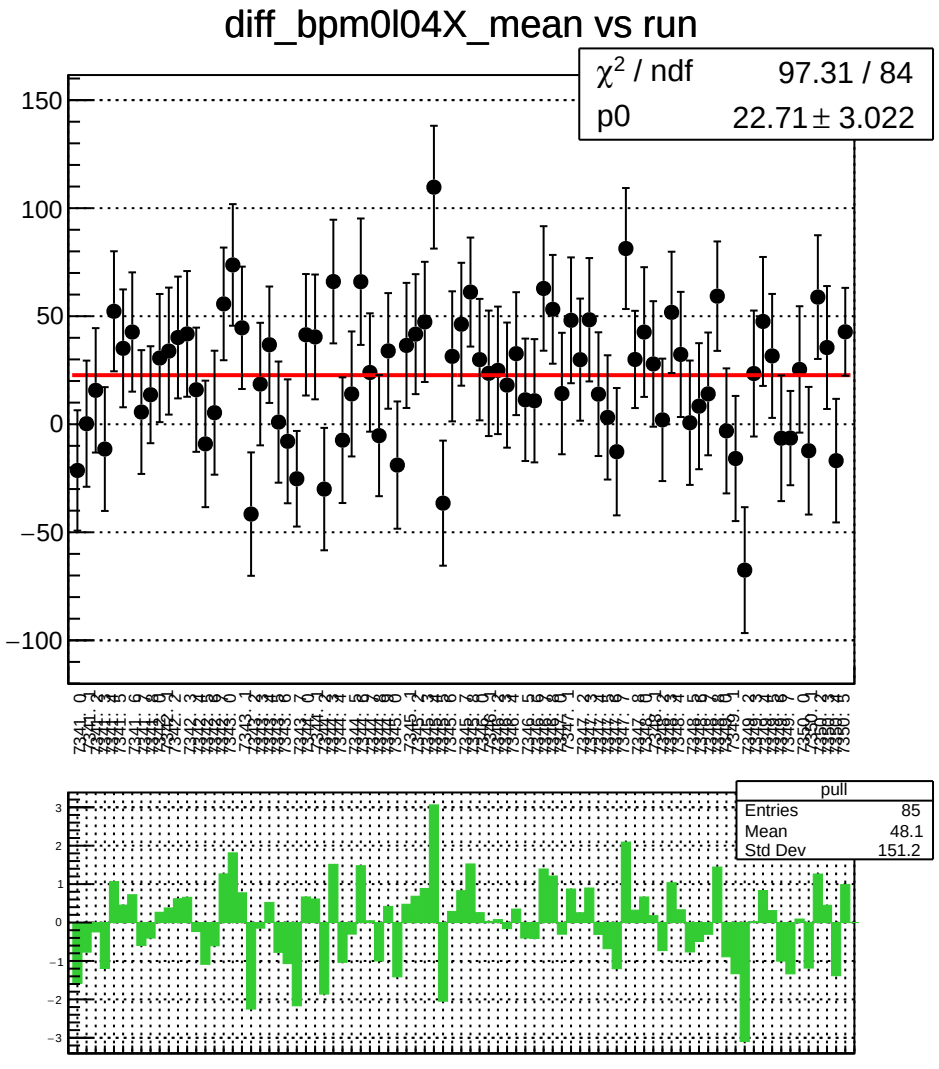

pull1D
Entries 85
Mean 0.00396
Std Dev 1.02

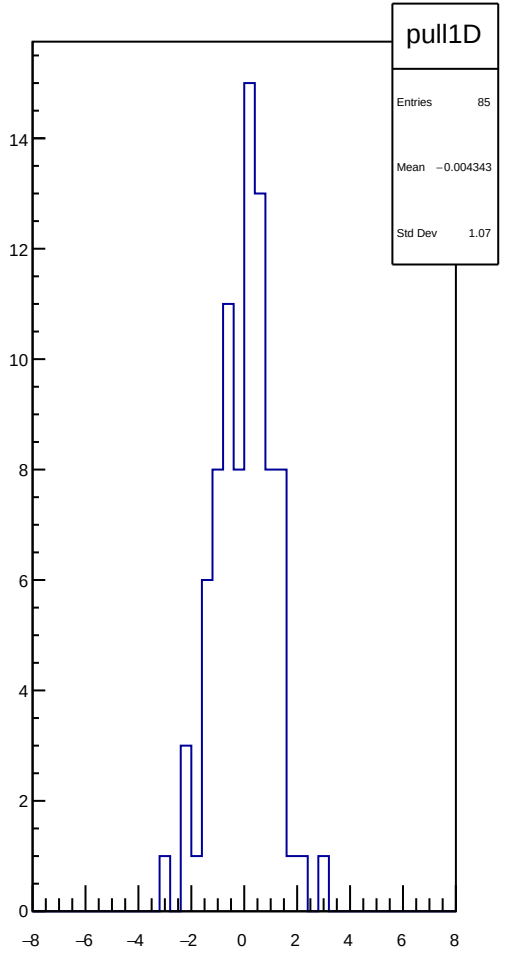

diff_bpm0l03X_rms vs run
χ^2 / ndf 1.133e+05 / 84
p0 2.373e+04 ± 19.35
50000
45000
40000
35000
30000
25000
20000
15000

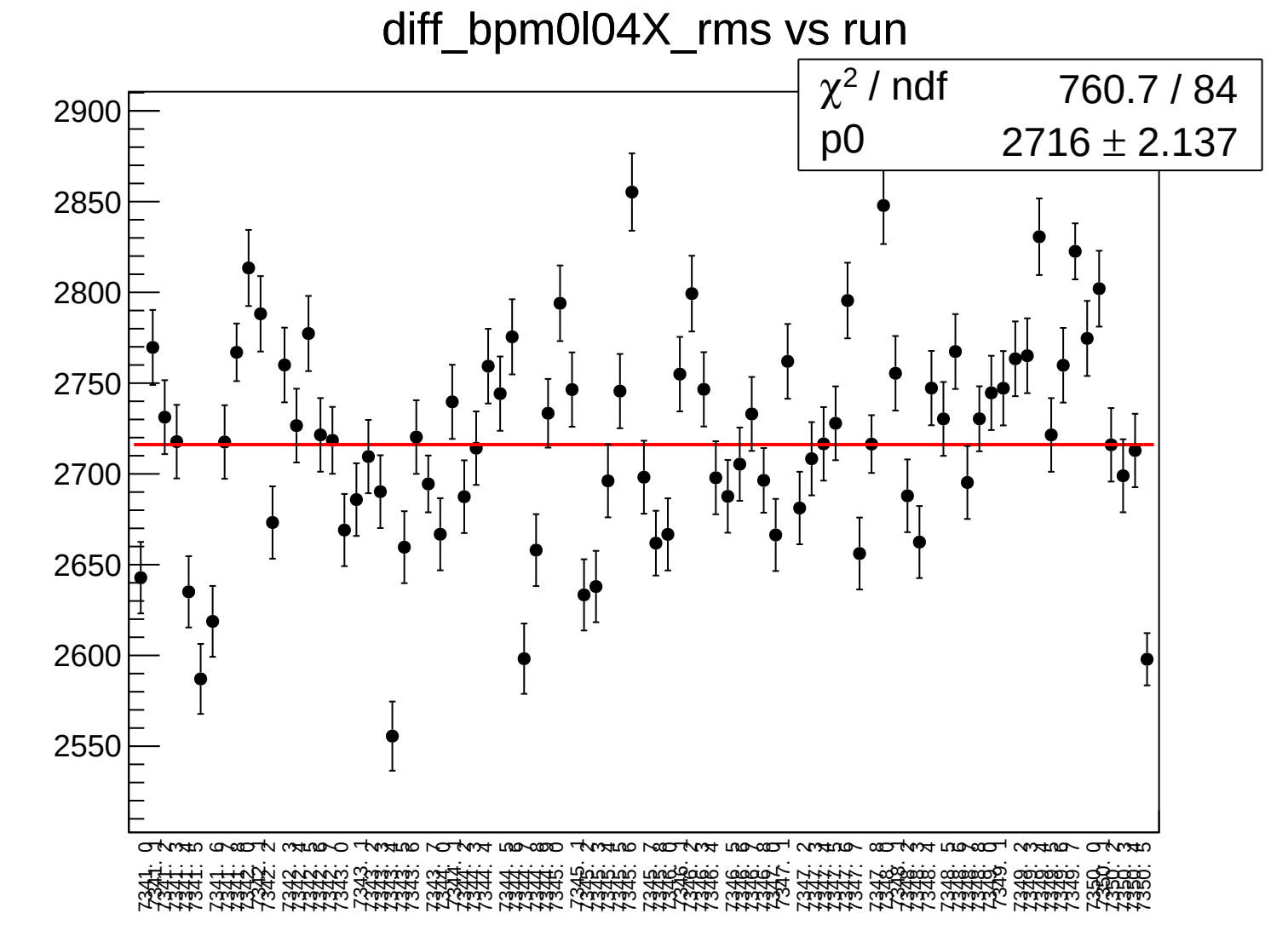

diff_bpm0l03Y_mean vs run
χ² / ndf 92.41 / 84
p0 −35.43 ± 27.33
pull
Entries 85
Mean 163.5
Std Dev 0

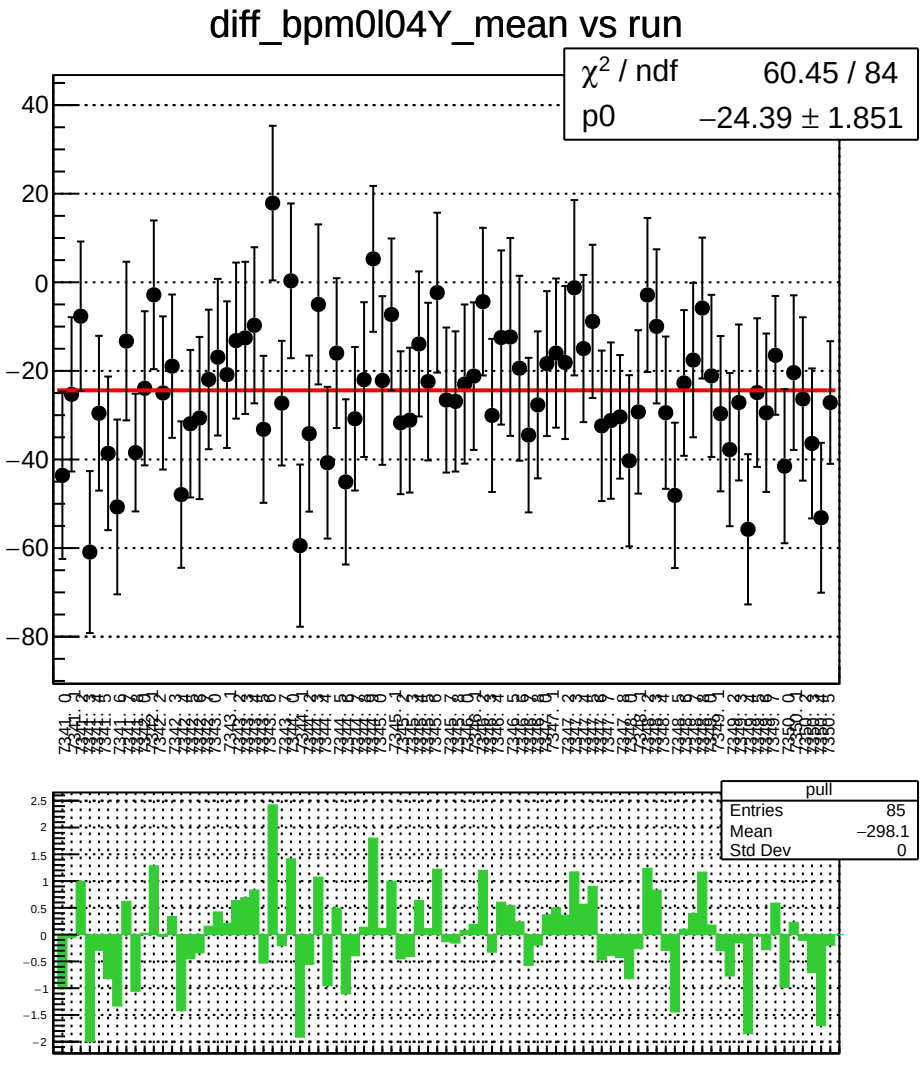

pull1D
Entries 85
Mean −0.009574
Std Dev 1.043

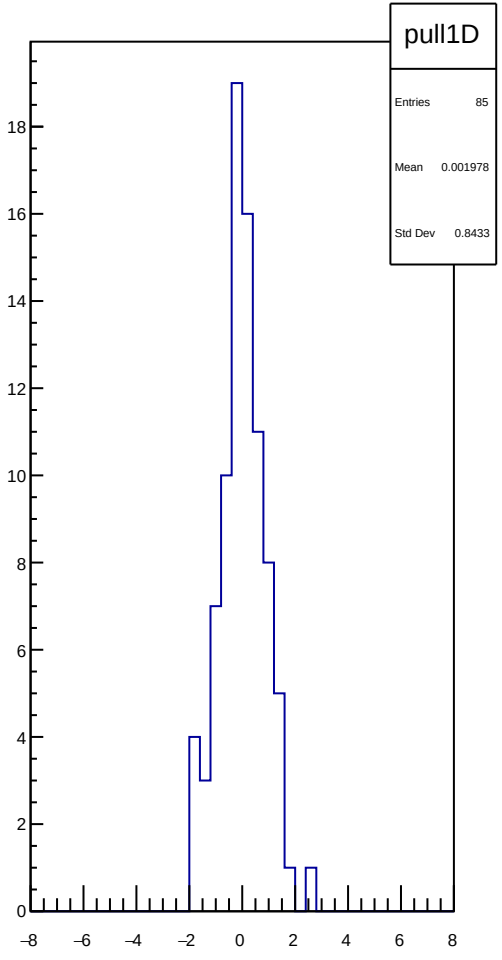

diff_bpm0l03Y_rms vs run
χ² / ndf 1.142e+05 / 84
p0 2.369e+04 ± 19.33
50000
45000
40000
35000
30000
25000
20000
15000

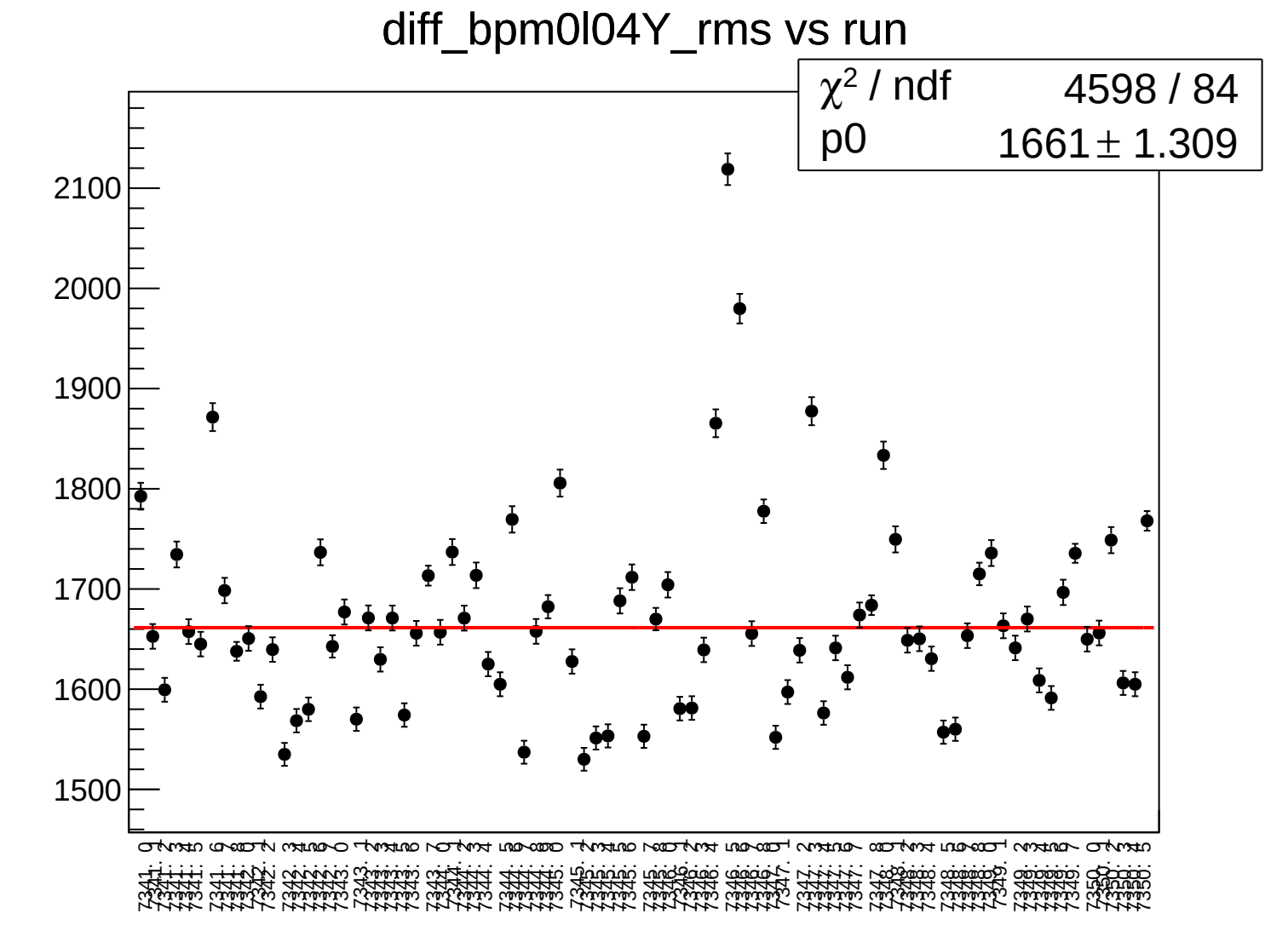

diff_bpm0l04X_mean vs run
χ² / ndf 97.31 / 84
p0 22.71 ± 3.022
150
100
50
0
−50
−100
pull
Entries 85
Mean 48.1
Std Dev 151.2
3
2
1
0
−1
−2
−3

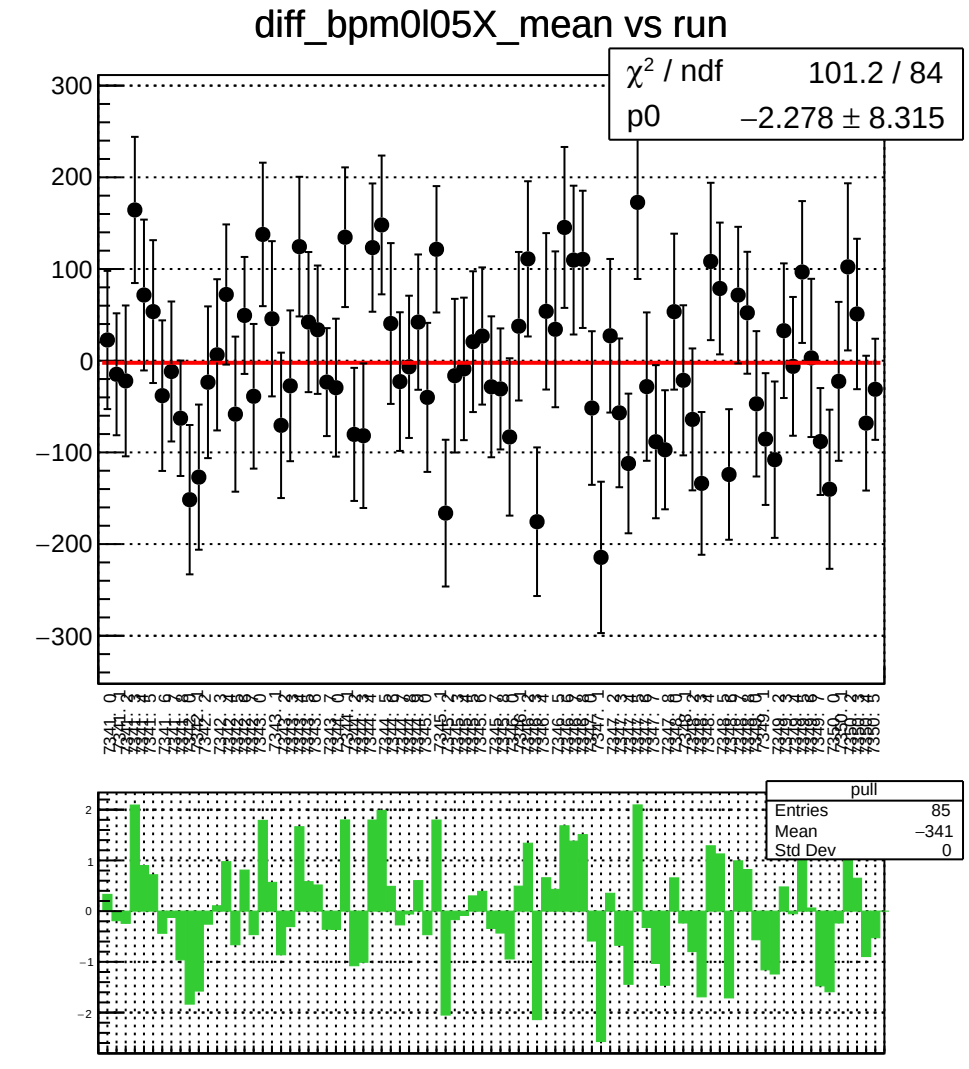

pull1D
Entries 85
Mean −0.004343
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

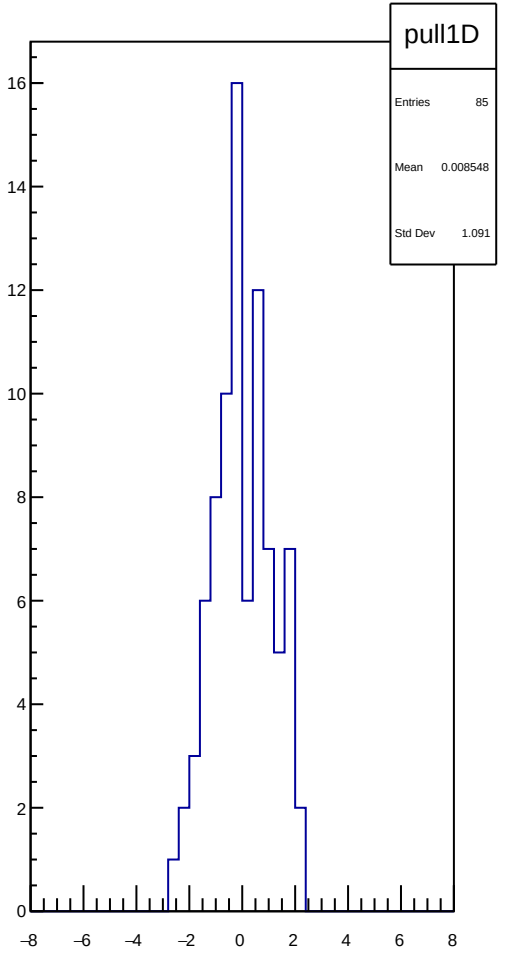

diff_bpm0l04X_rms vs run
χ² / ndf 760.7 / 84
p0 2716 ± 2.137
2900
2850
2800
2750
2700
2650
2600
2550

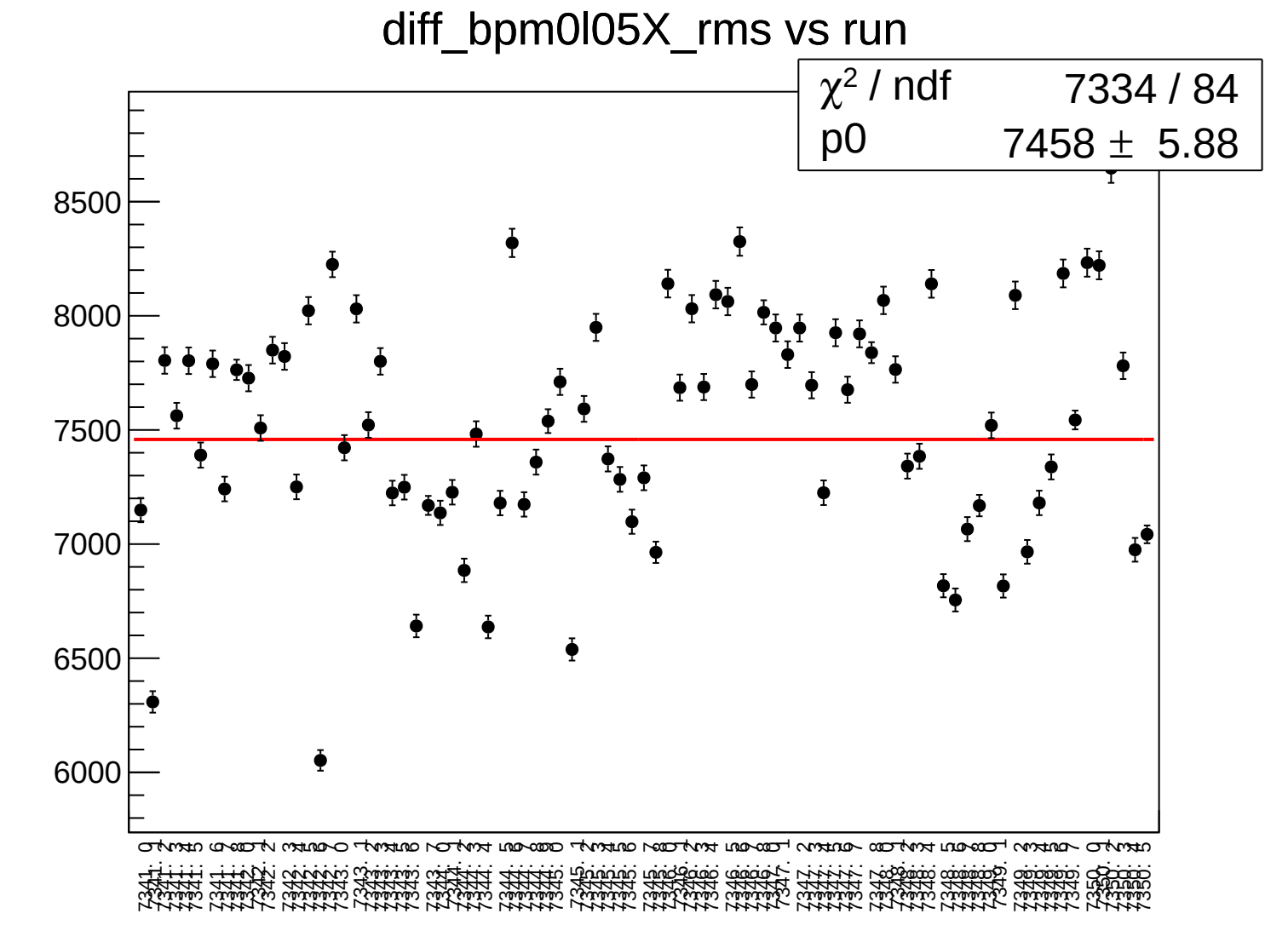

diff_bpm0l04Y_mean vs run
χ^2 / ndf 60.45 / 84
p0 −24.39 ± 1.851
pull
Entries 85
Mean −298.1
Std Dev 0

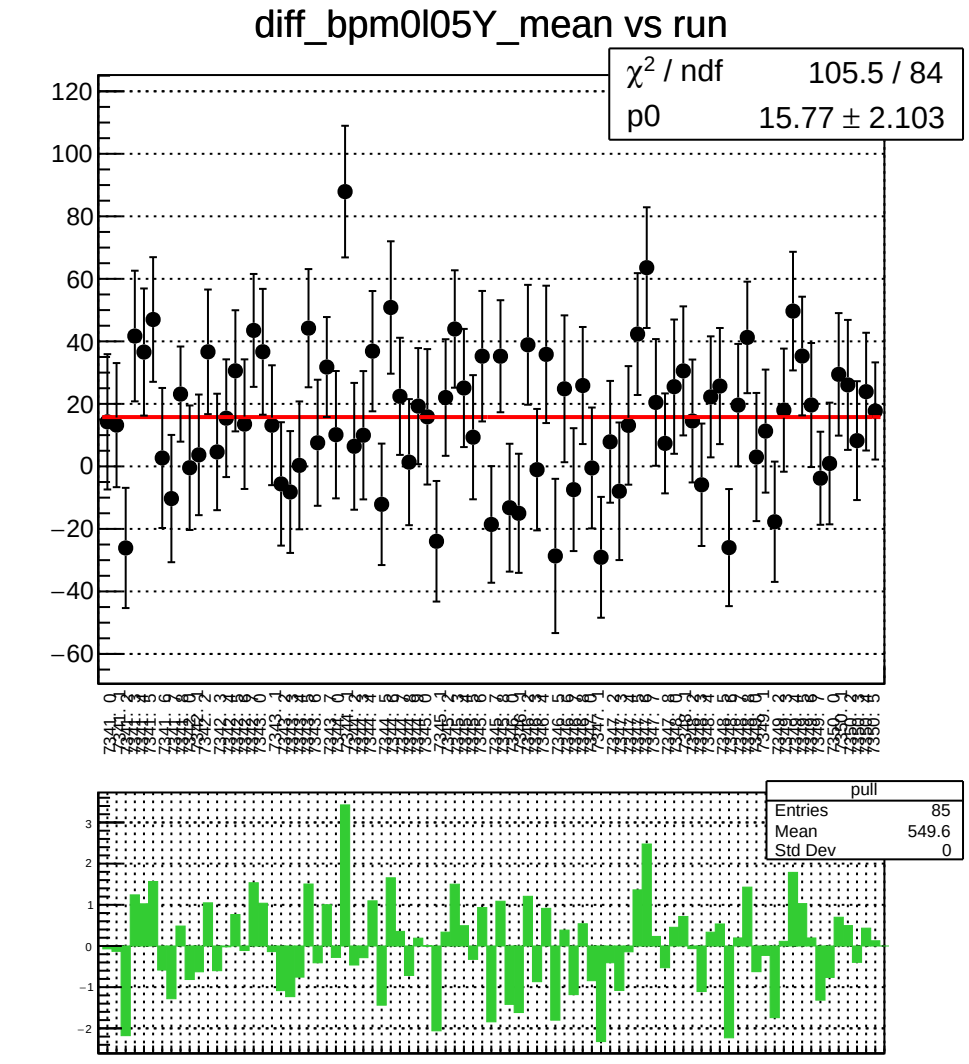

pull1D
Entries 85
Mean 0.001978
Std Dev 0.8433

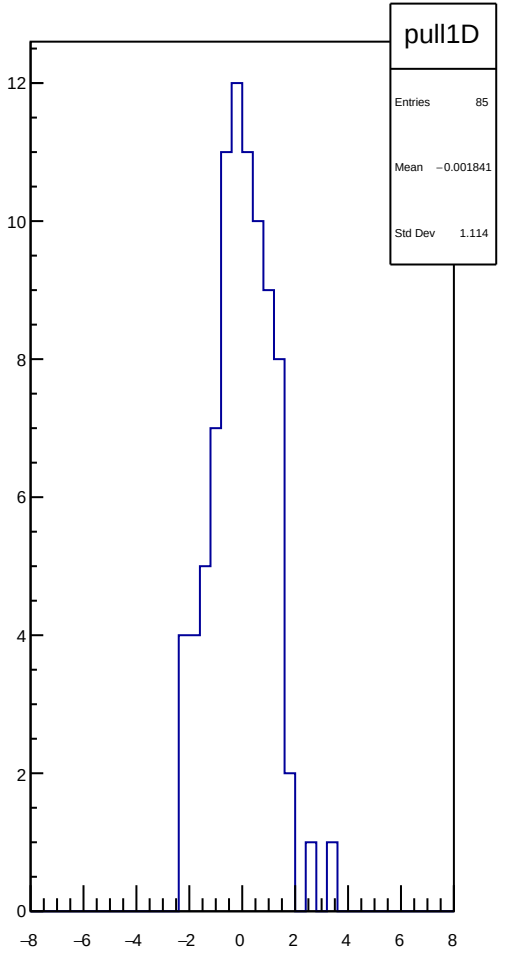

diff_bpm0l04Y_rms vs run
χ² / ndf 4598 / 84
p0 1661 ± 1.309
2100
2000
1900
1800
1700
1600
1500

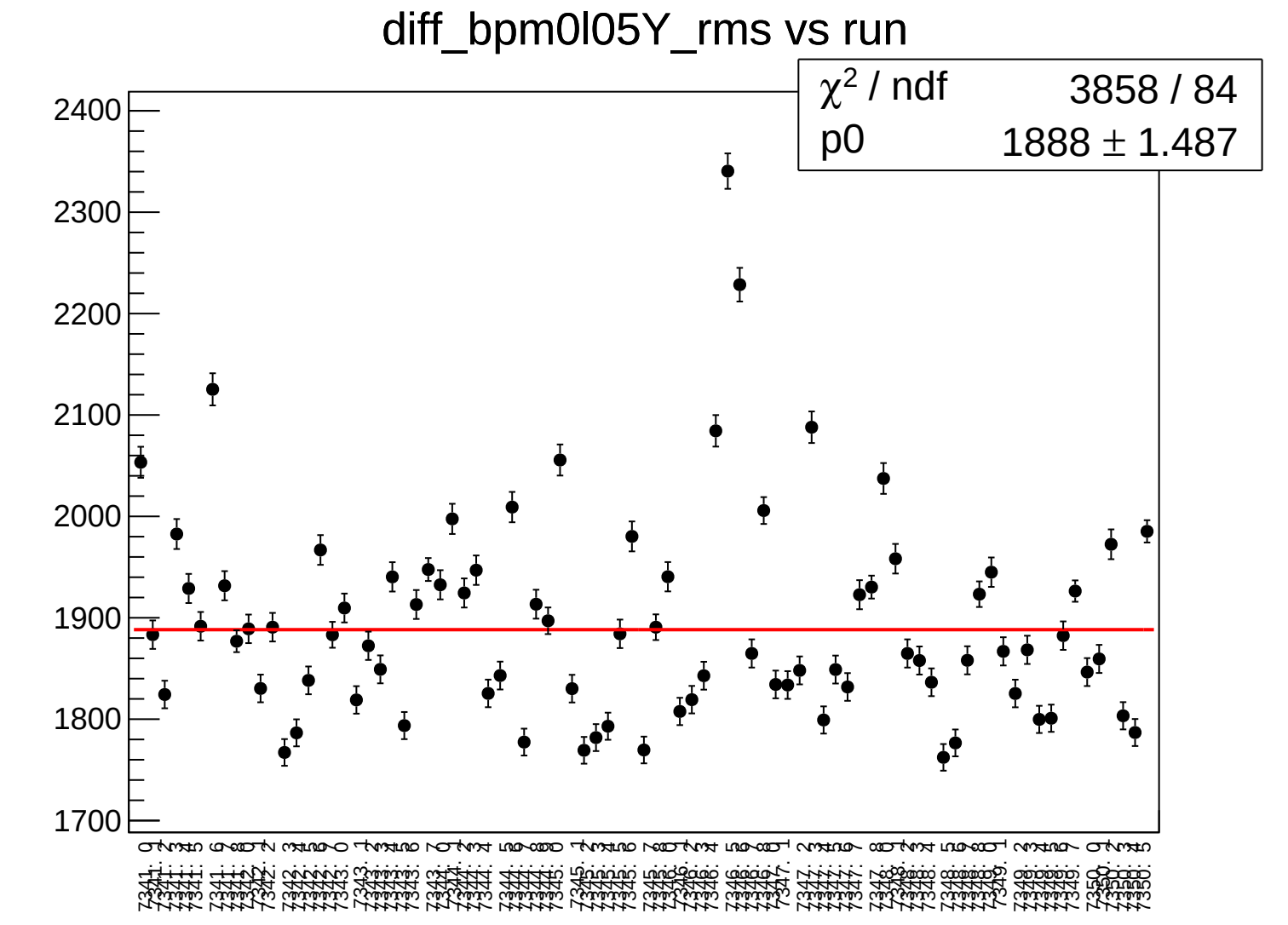

diff_bpm0l05X_mean vs run
χ² / ndf 101.2 / 84
p0 −2.278 ± 8.315
pull
Entries 85
Mean −341
Std Dev 0

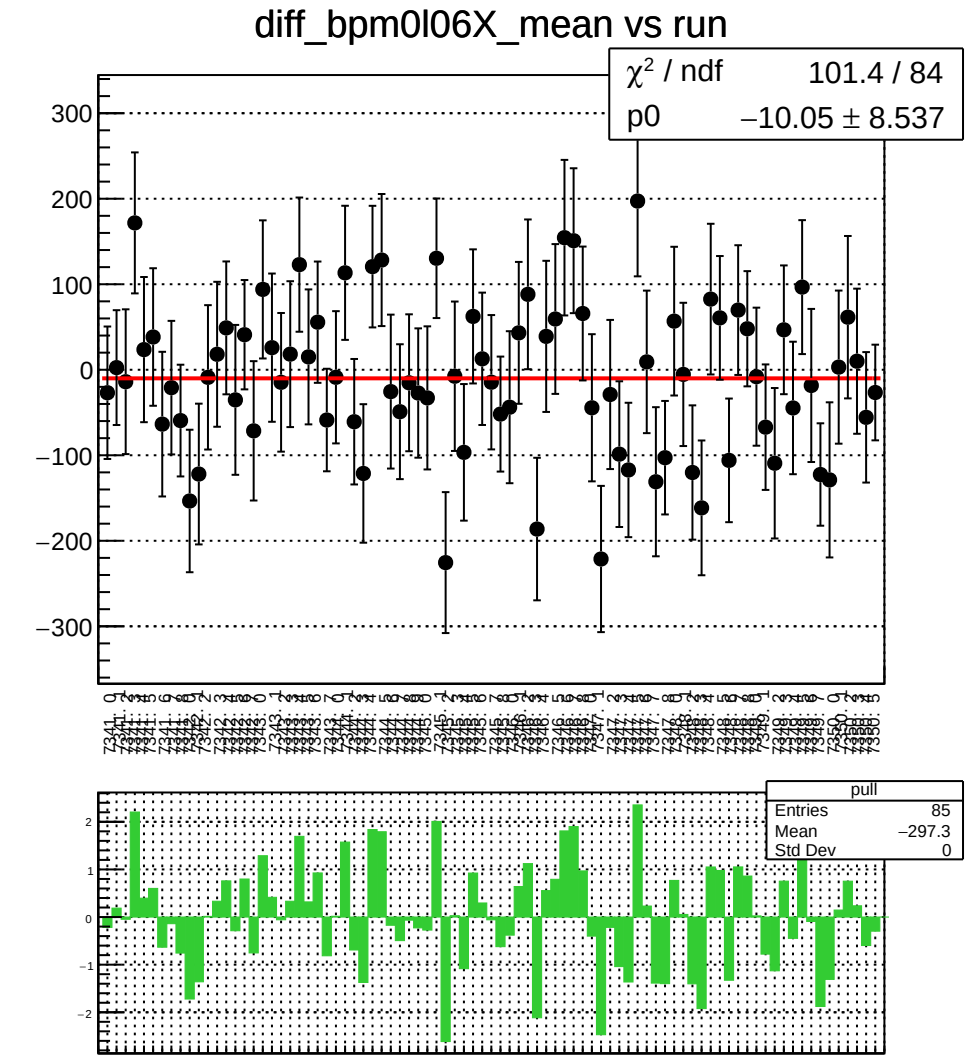

pull1D
Entries 85
Mean 0.008548
Std Dev 1.091

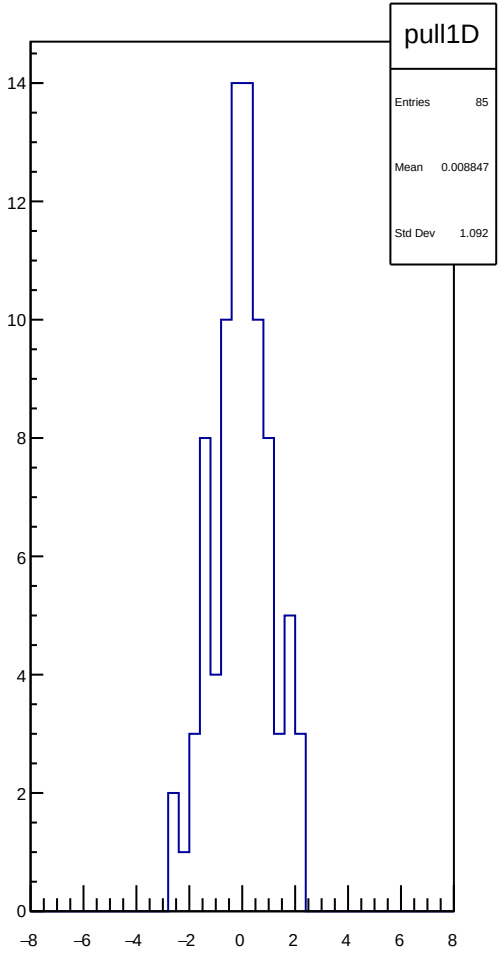

diff_bpm0l05X_rms vs run
χ² / ndf 7334 / 84
p0 7458 ± 5.88
8500
8000
7500
7000
6500
6000

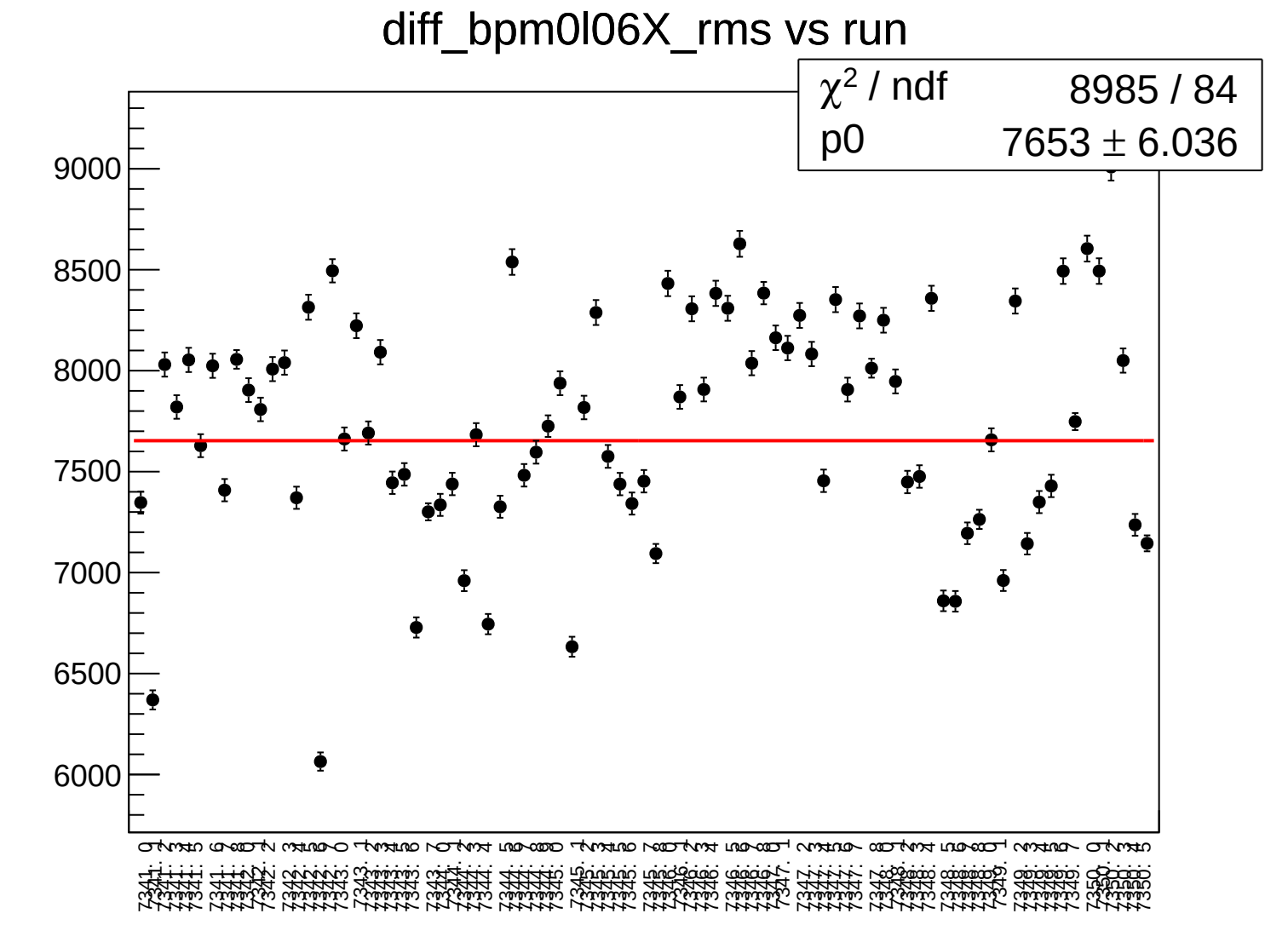

diff_bpm0l05Y_mean vs run
χ² / ndf 105.5 / 84
p0 15.77 ± 2.103
pull
Entries 85
Mean 549.6
Std Dev 0

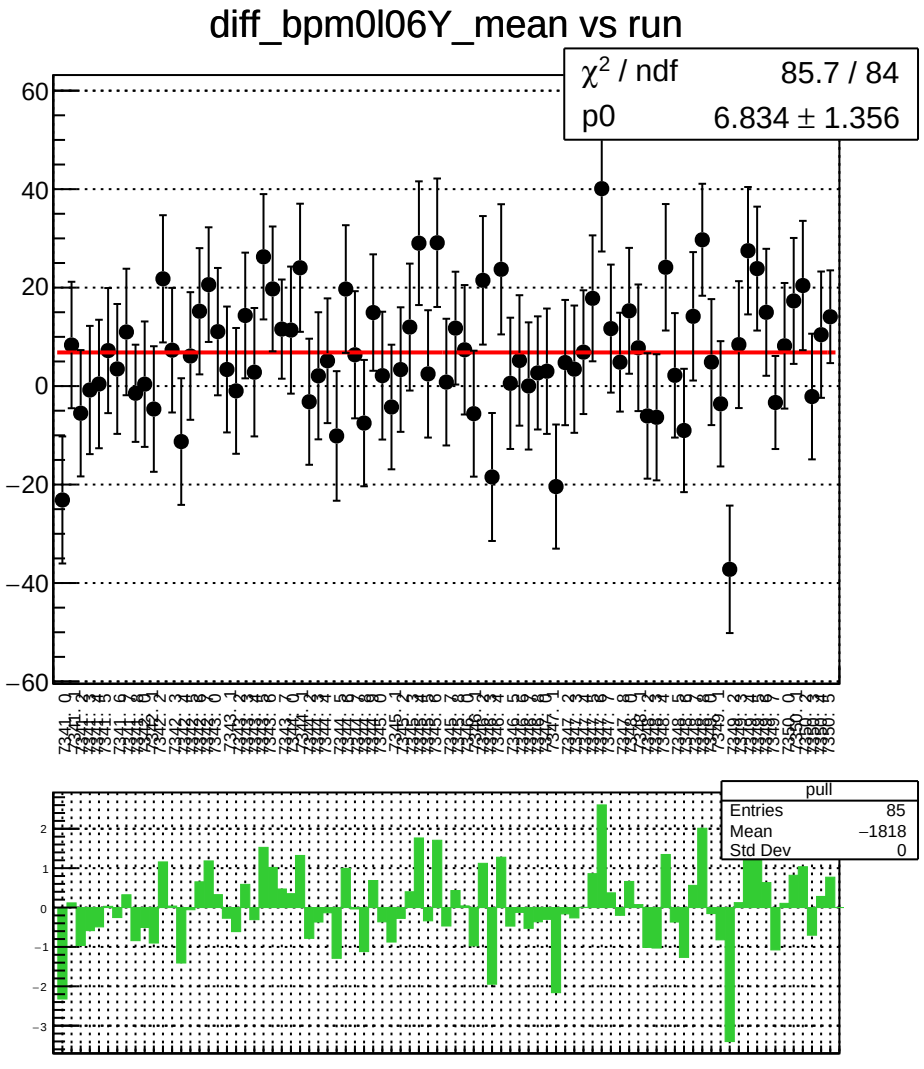

pull1D
Entries 85
Mean −0.001841
Std Dev 1.114

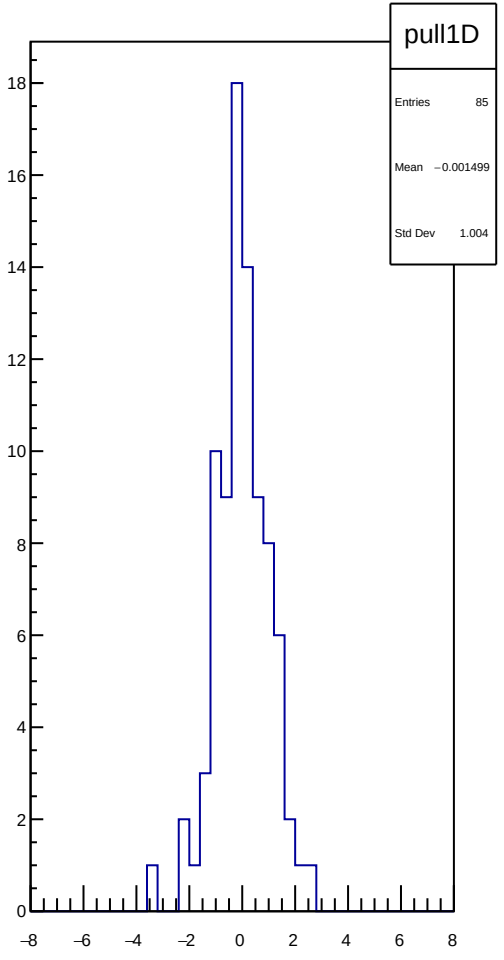

diff_bpm0l05Y_rms vs run
χ² / ndf 3858 / 84
p0 1888 ± 1.487
2400
2300
2200
2100
2000
1900
1800
1700

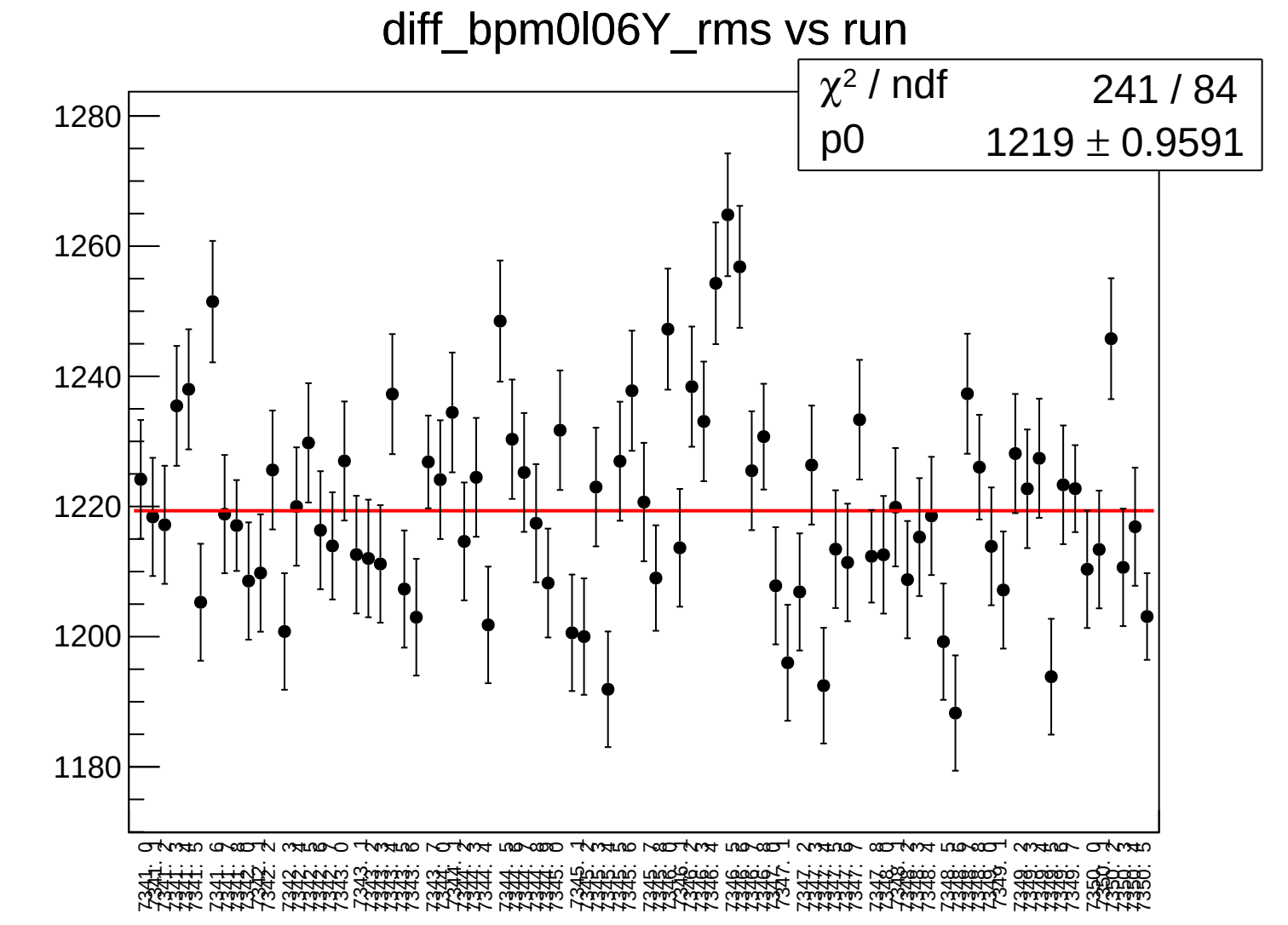

diff_bpm0l06X_mean vs run
χ² / ndf 101.4 / 84
p0 −10.05 ± 8.537
pull
Entries 85
Mean −297.3
Std Dev 0

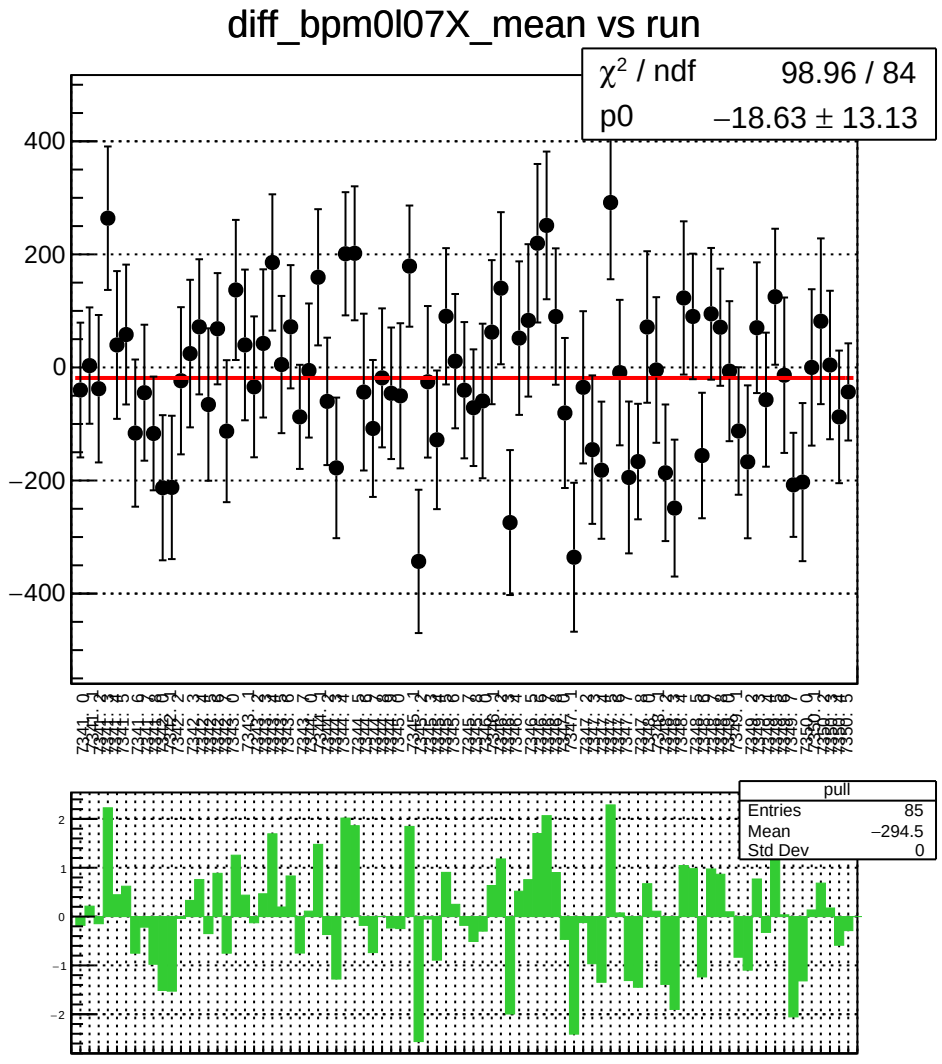

pull1D
Entries 85
Mean 0.008847
Std Dev 1.092

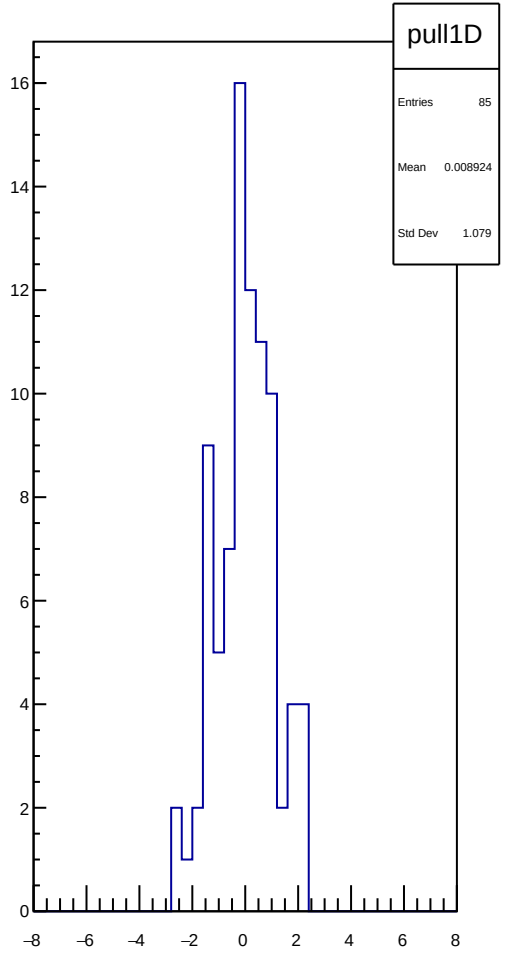

diff_bpm0l06X_rms vs run
χ^2 / ndf 8985 / 84
p0 7653 ± 6.036
9000
8500
8000
7500
7000
6500
6000

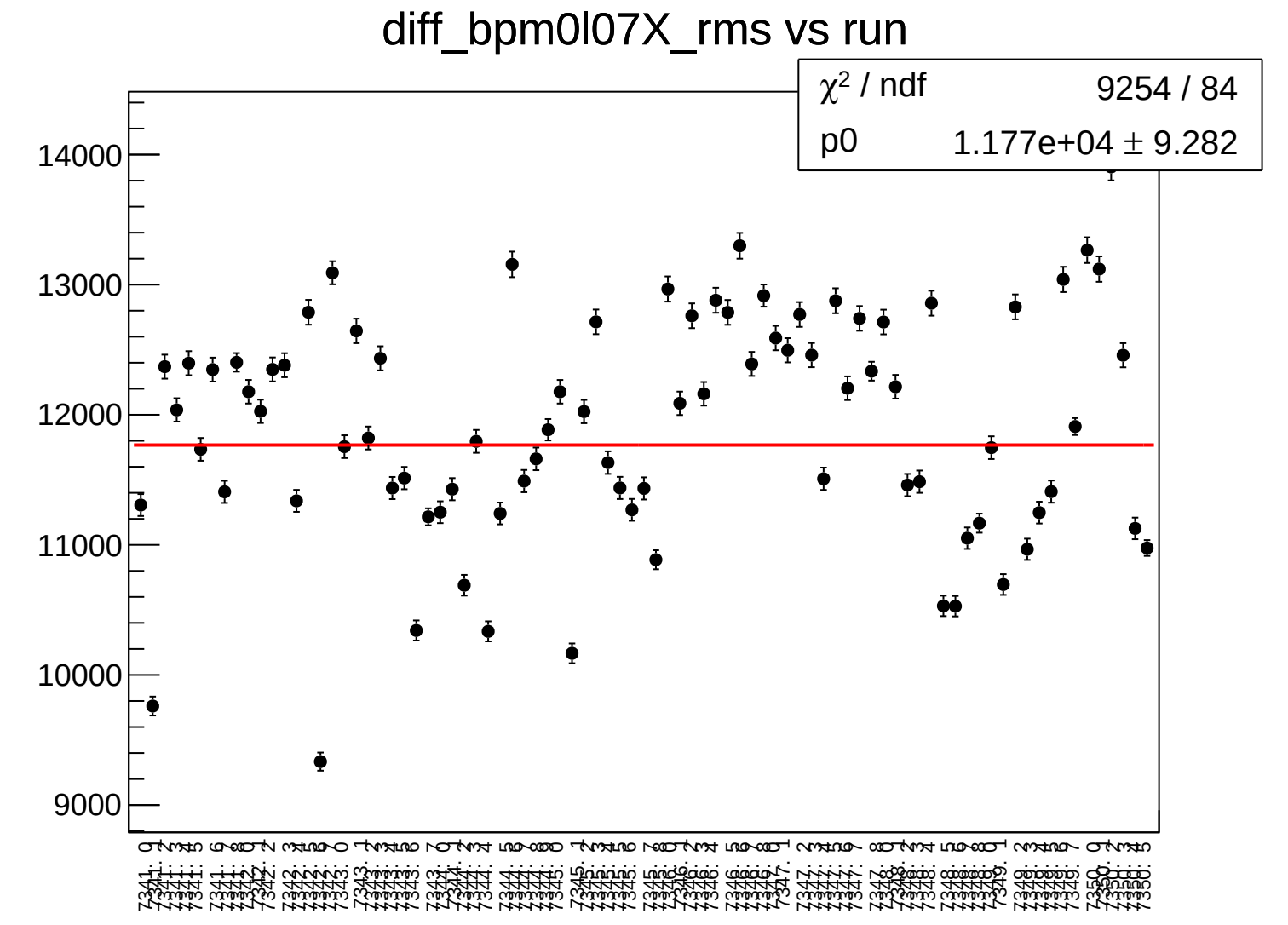

diff_bpm0l06Y_mean vs run
χ² / ndf 85.7 / 84
p0 6.834 ± 1.356
pull
Entries 85
Mean −1818
Std Dev 0

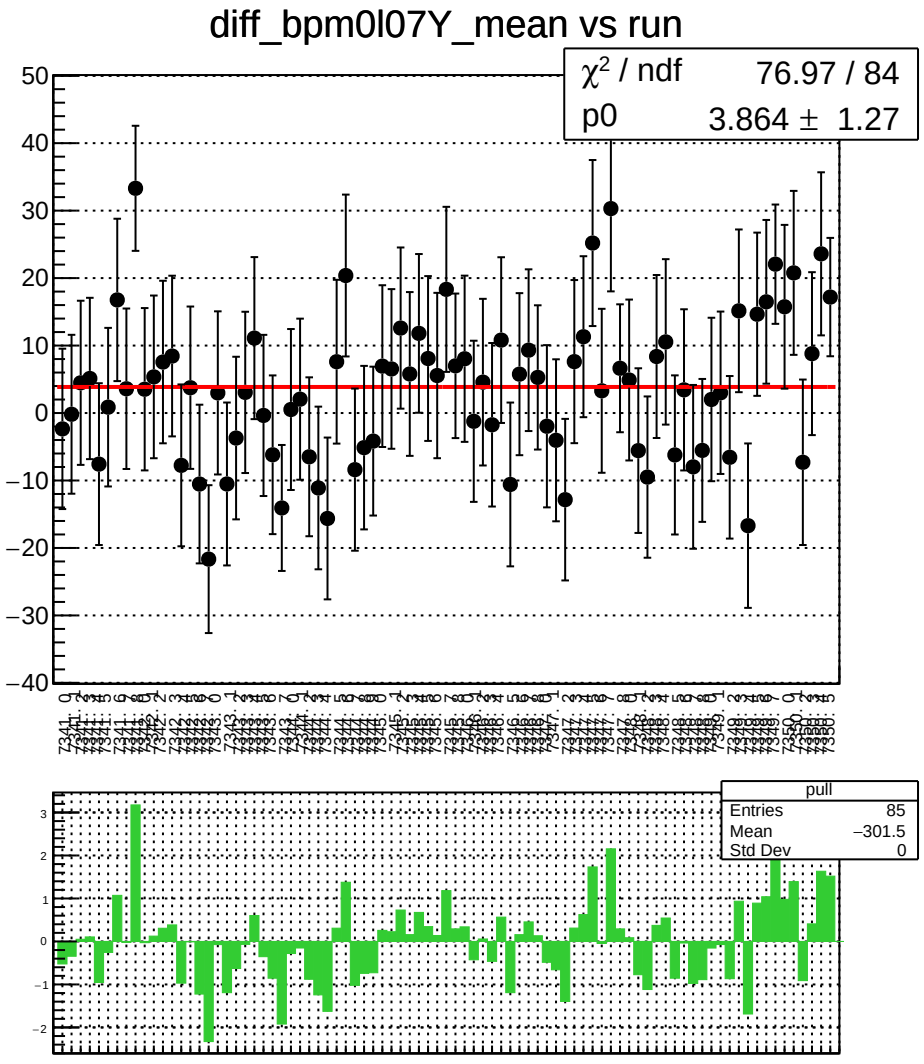

pull1D
Entries 85
Mean −0.001499
Std Dev 1.004

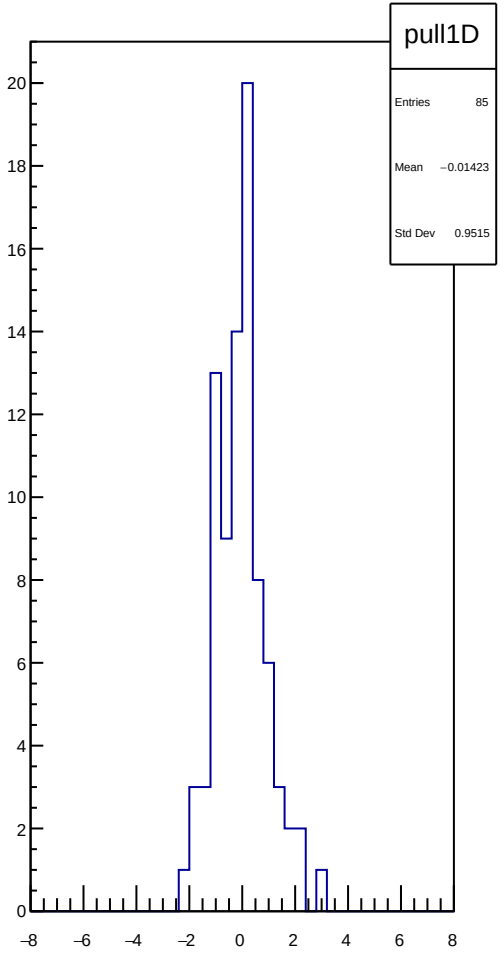

diff_bpm0l06Y_rms vs run
χ² / ndf 241 / 84
p0 1219 ± 0.9591
1280
1260
1240
1220
1200
1180

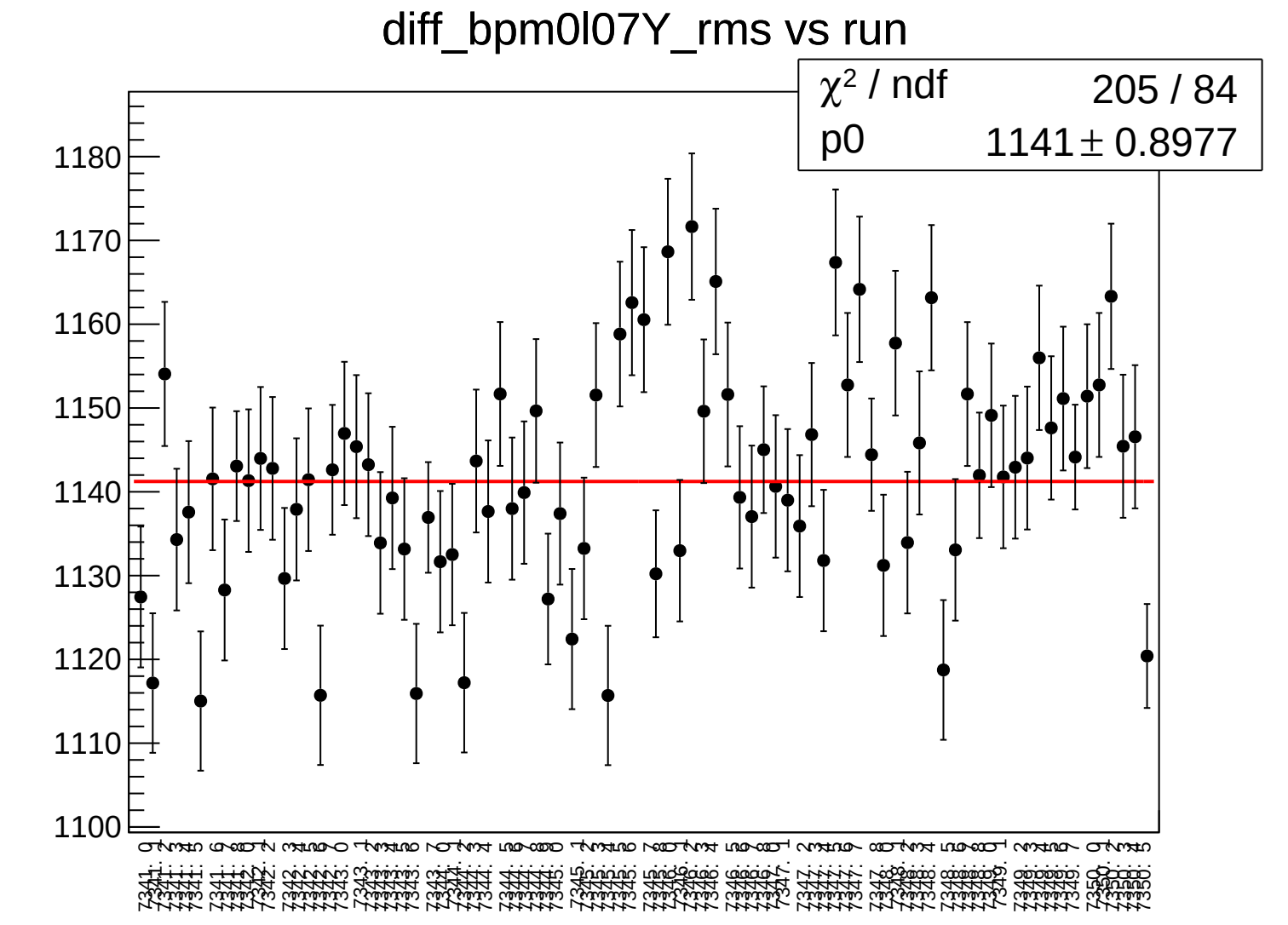

diff_bpm0l07X_mean vs run
χ² / ndf 98.96 / 84
p0 −18.63 ± 13.13
400
200
0
−200
−400
pull
Entries 85
Mean −294.5
Std Dev 0
2
1
0
−1
−2

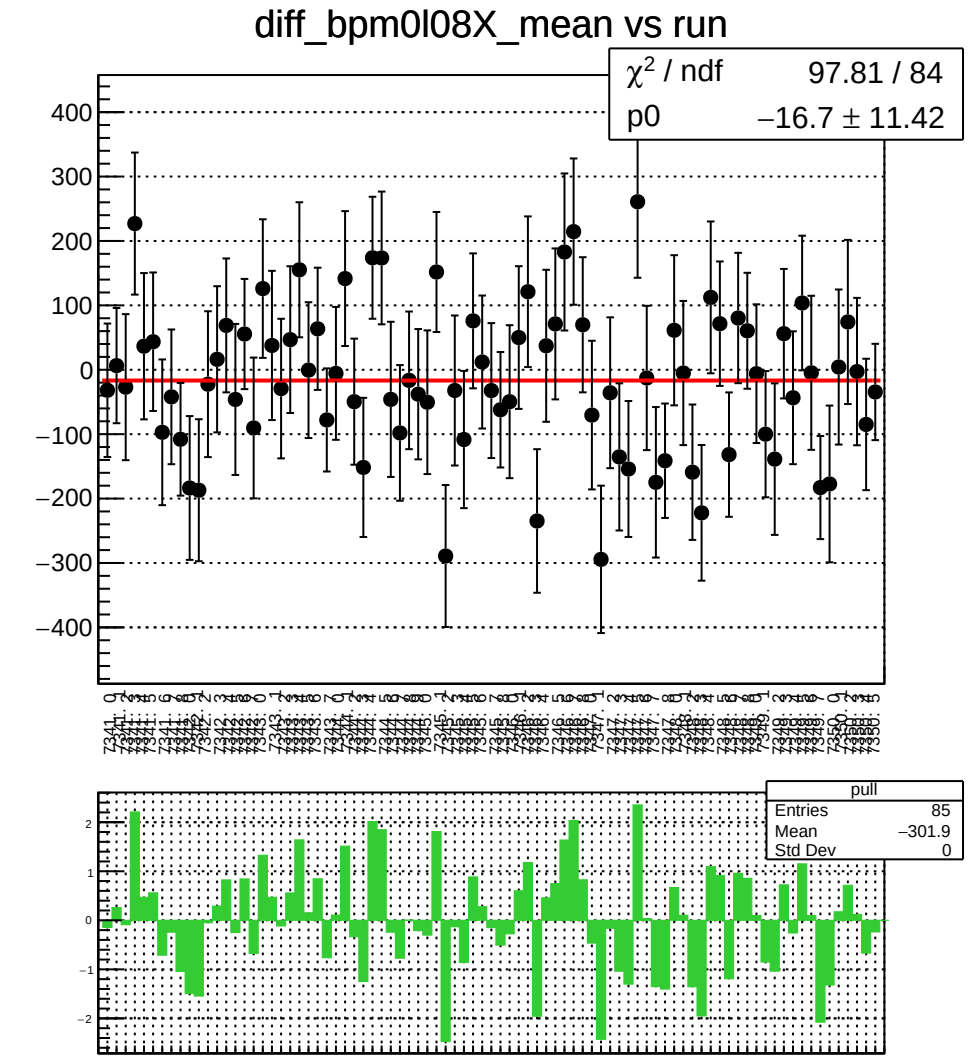

pull1D
Entries 85
Mean 0.008924
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

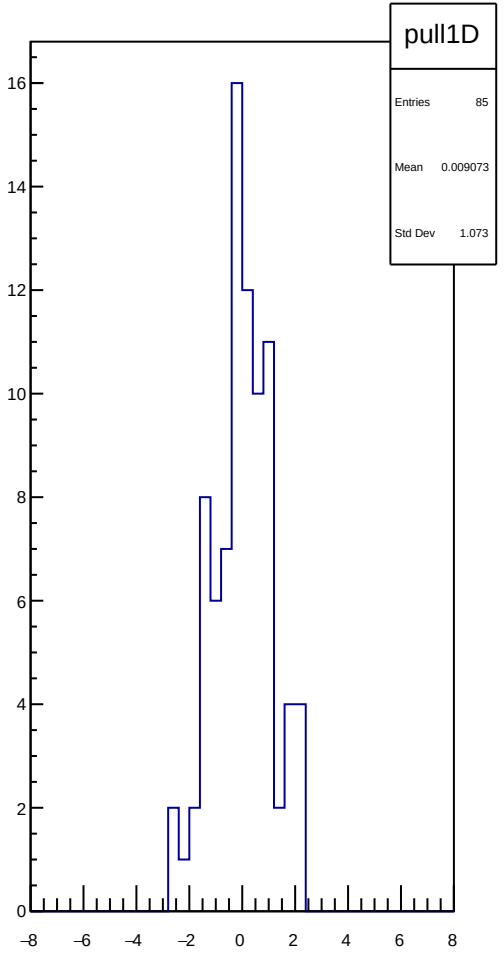

diff_bpm0l07X_rms vs run
χ² / ndf 9254 / 84
p0 1.177e+04 ± 9.282
14000
13000
12000
11000
10000
9000

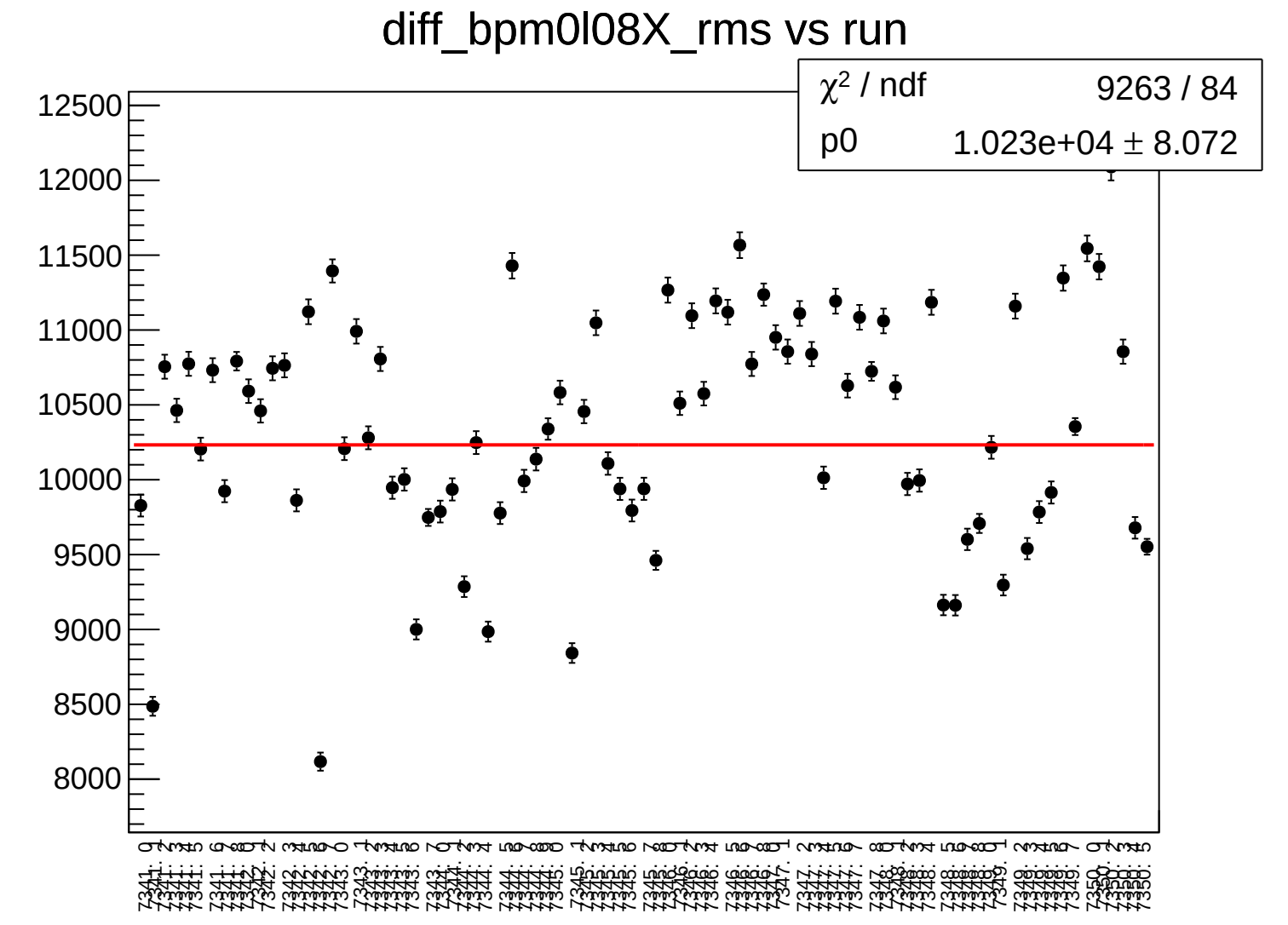

diff_bpm0l07Y_mean vs run
χ² / ndf 76.97 / 84
p0 3.864 ± 1.27
pull
Entries 85
Mean −301.5
Std Dev 0

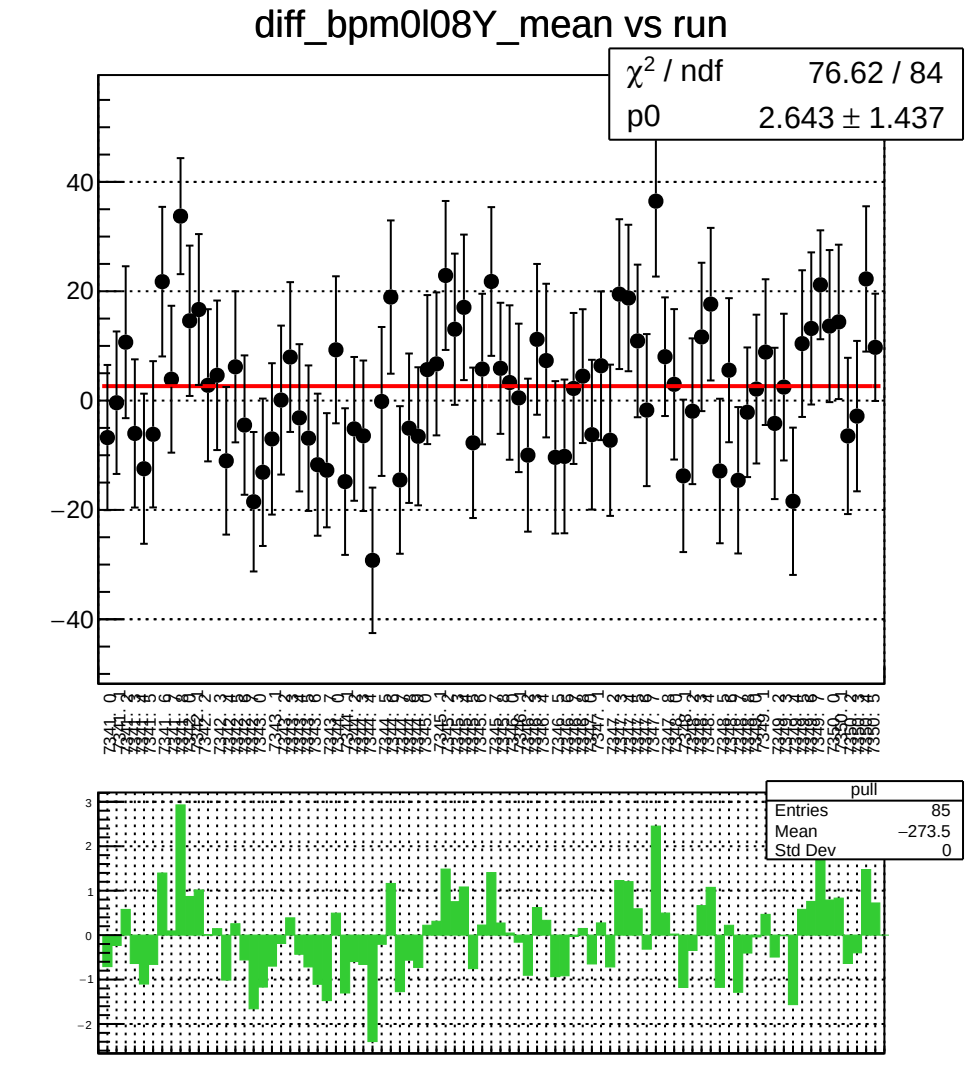

pull1D
Entries 85
Mean −0.01423
Std Dev 0.9515

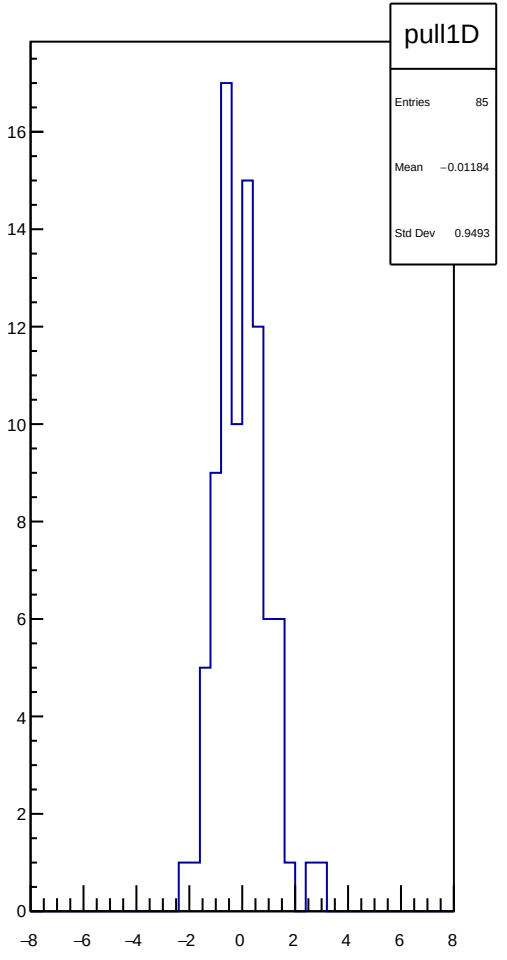

diff_bpm0l07Y_rms vs run
χ² / ndf 205 / 84
p0 1141 ± 0.8977
1180
1170
1160
1150
1140
1130
1120
1110
1100

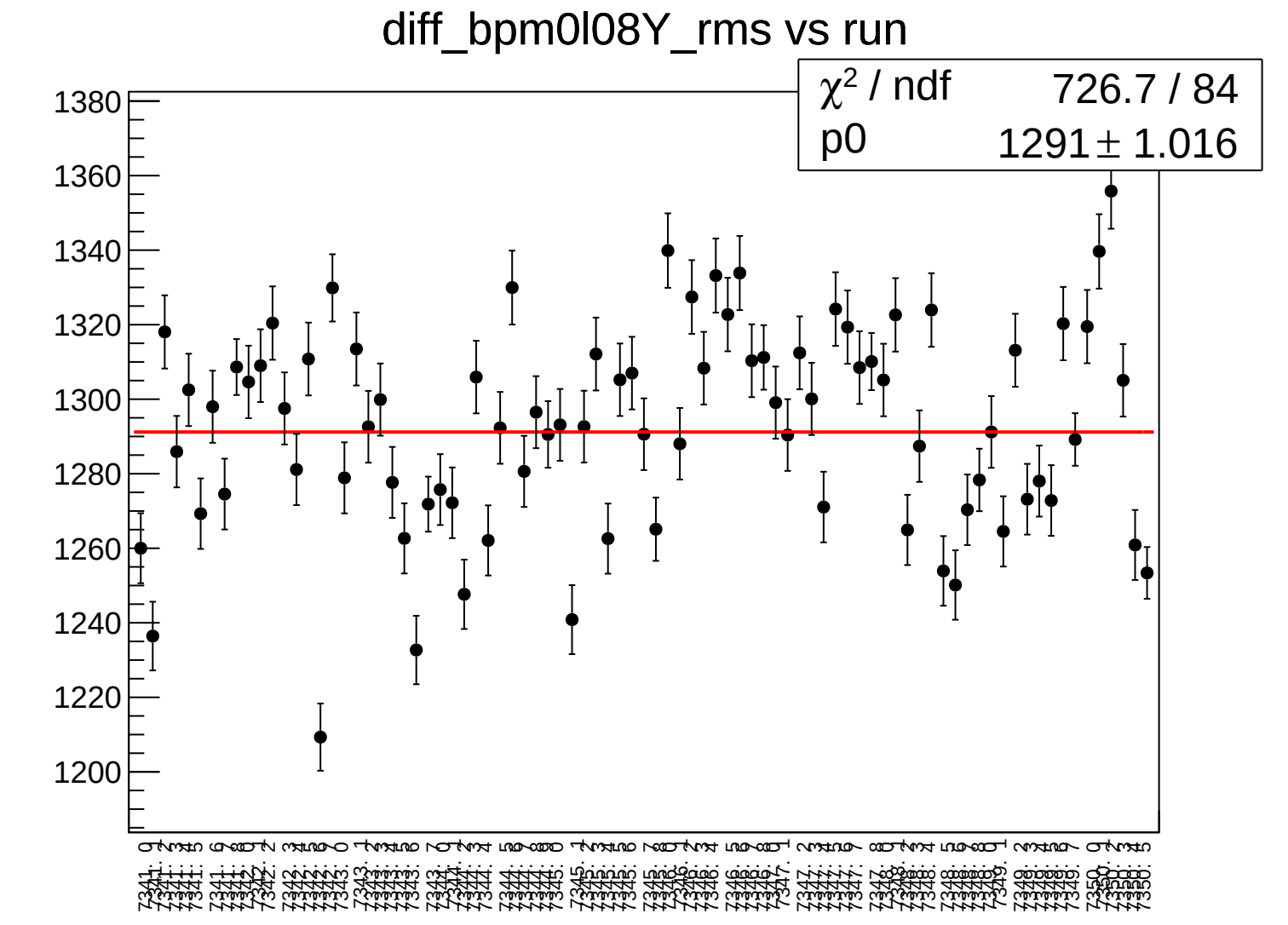

diff_bpm0l08X_mean vs run
χ² / ndf 97.81 / 84
p0 −16.7 ± 11.42
pull
Entries 85
Mean −301.9
Std Dev 0

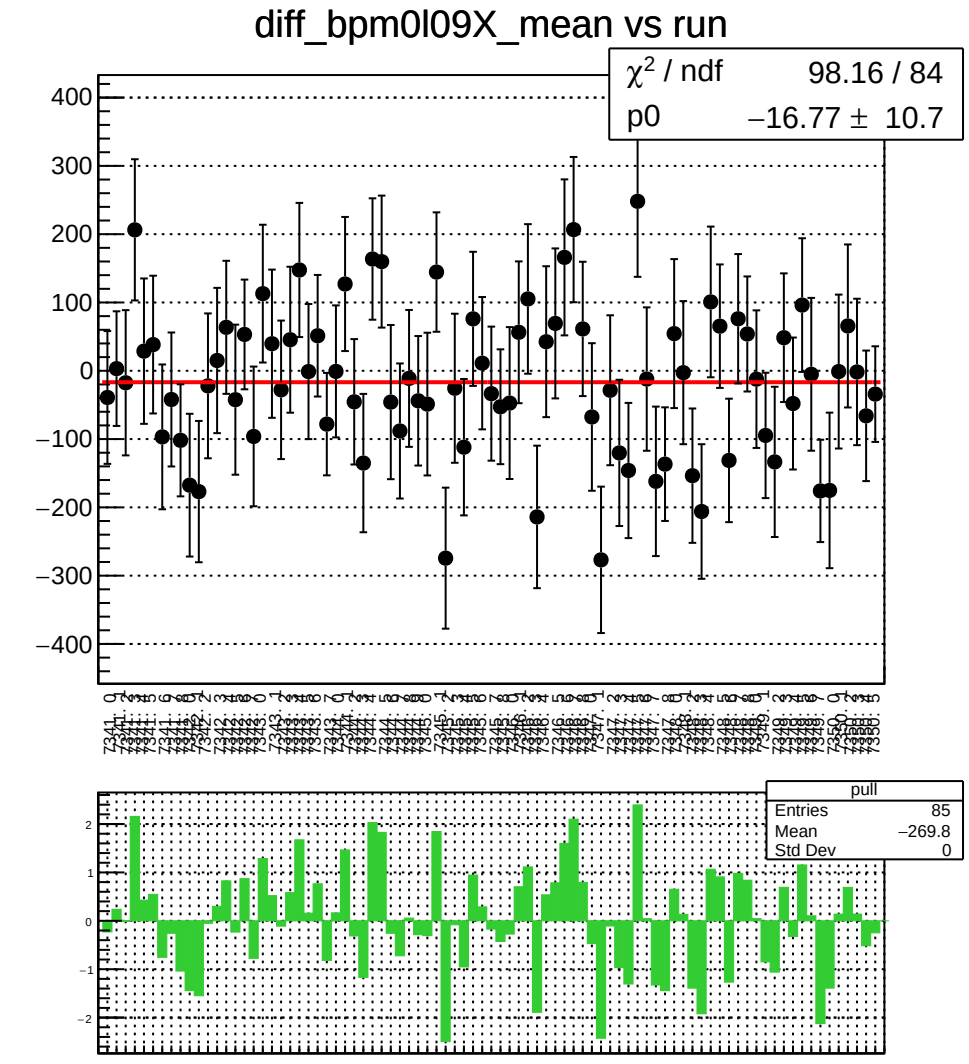

pull1D
Entries 85
Mean 0.009073
Std Dev 1.073

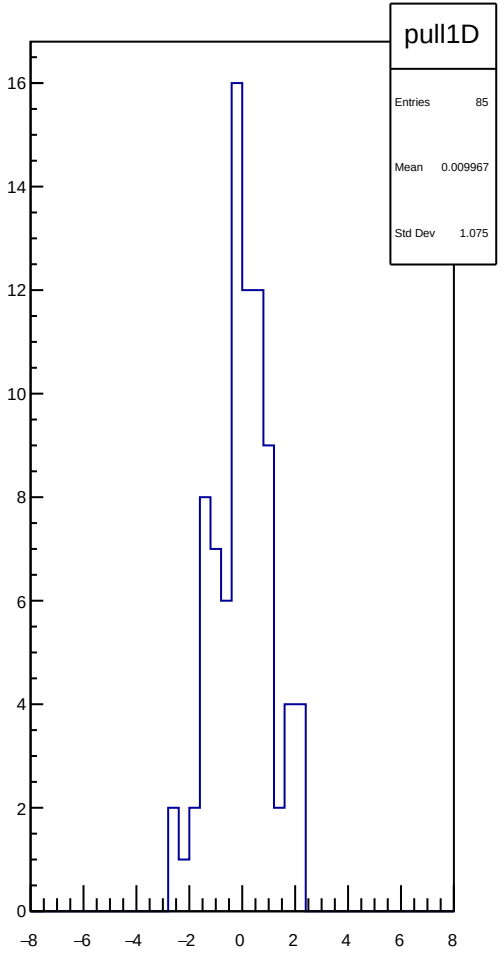

diff_bpm0l08X_rms vs run
χ² / ndf 9263 / 84
p0 1.023e+04 ± 8.072
12500
12000
11500
11000
10500
10000
9500
9000
8500
8000

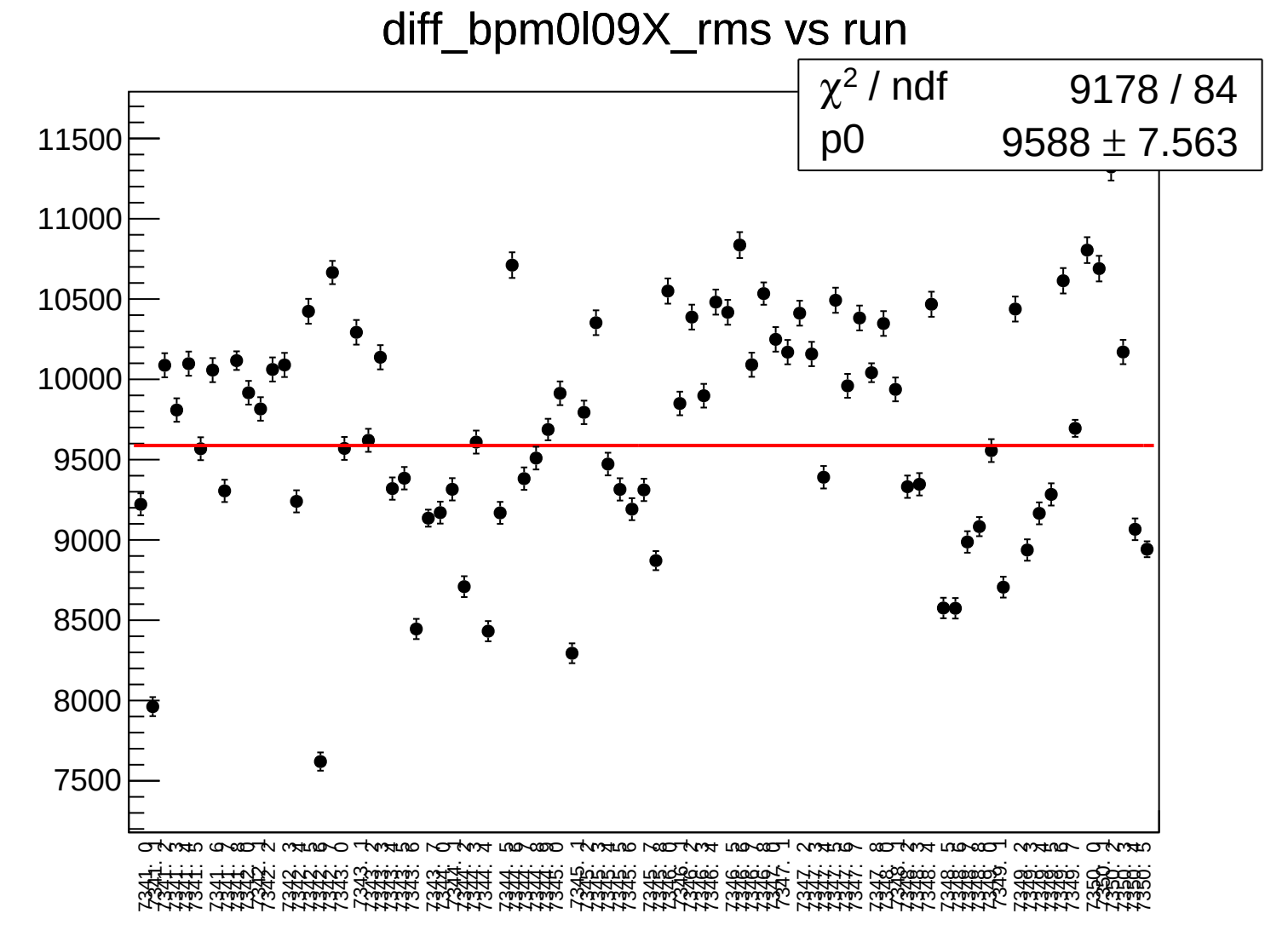

diff_bpm0l08Y_mean vs run
χ² / ndf 76.62 / 84
p0 2.643 ± 1.437
pull
Entries 85
Mean −273.5
Std Dev 0

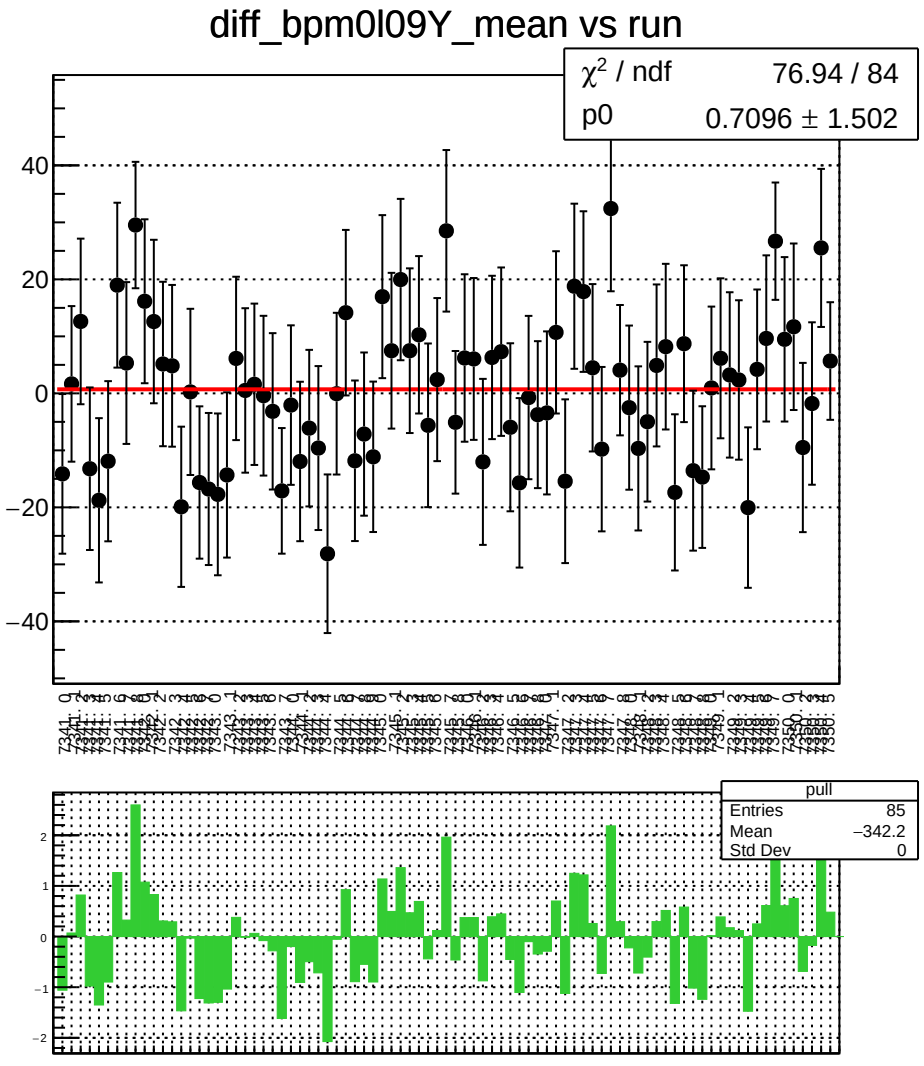

pull1D
Entries 85
Mean −0.01184
Std Dev 0.9493

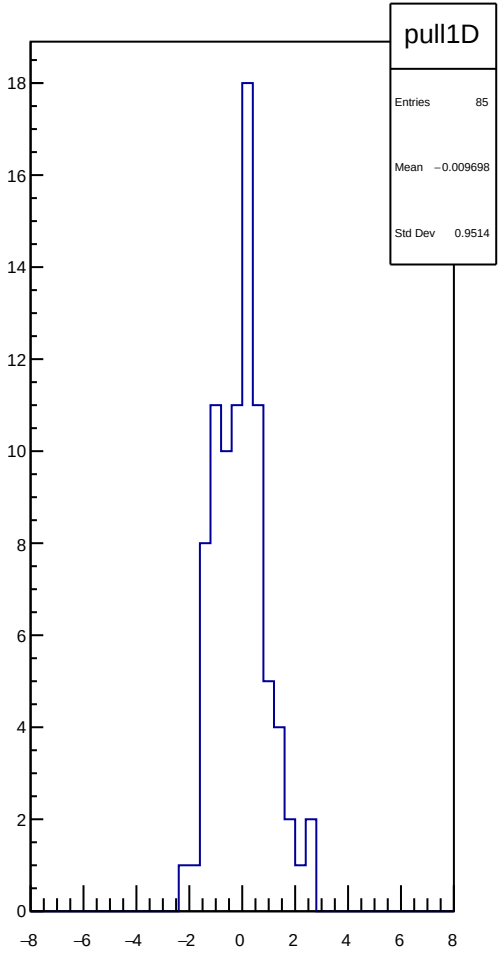

diff_bpm0l08Y_rms vs run
χ² / ndf 726.7 / 84
p0 1291 ± 1.016
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

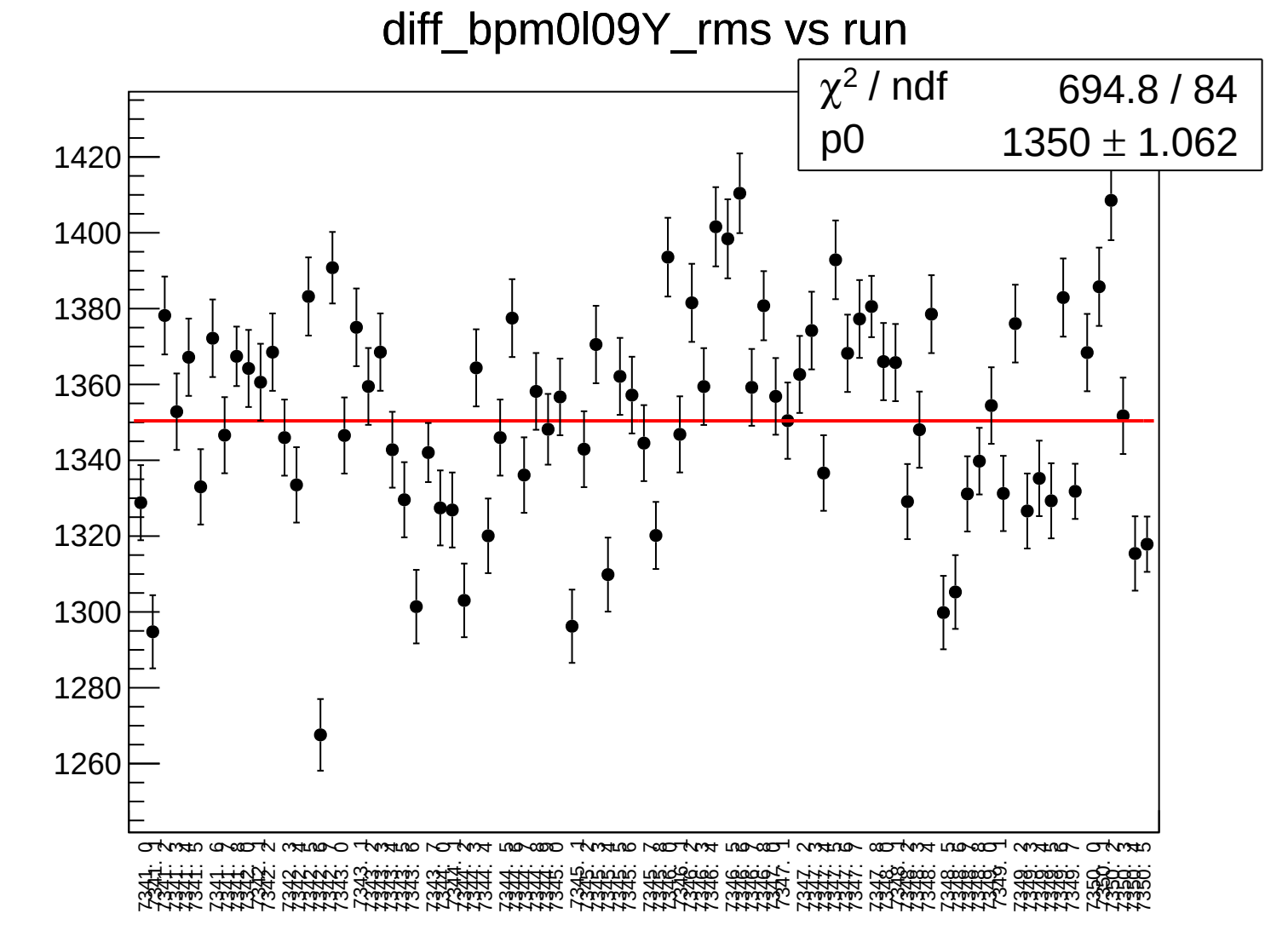

diff_bpm0l09X_mean vs run
χ² / ndf 98.16 / 84
p0 −16.77 ± 10.7
pull
Entries 85
Mean −269.8
Std Dev 0

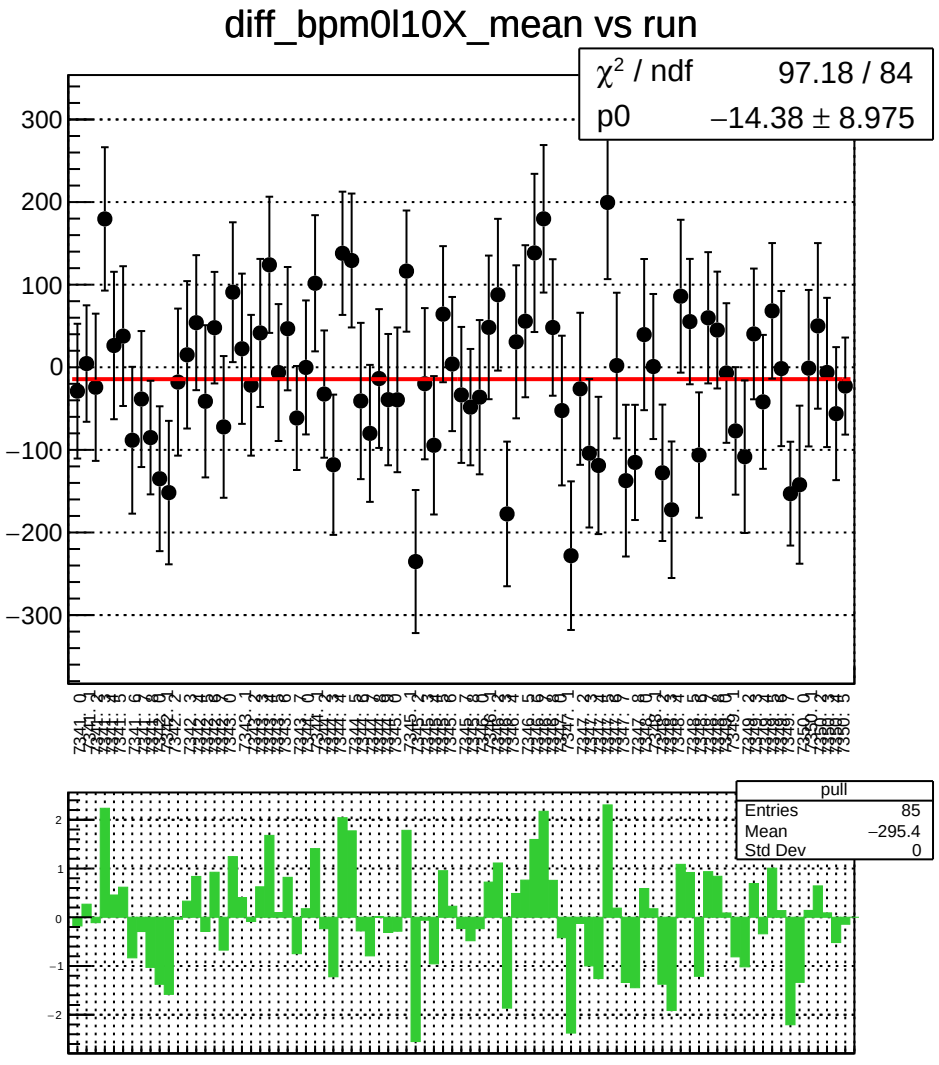

pull1D
Entries 85
Mean 0.009967
Std Dev 1.075

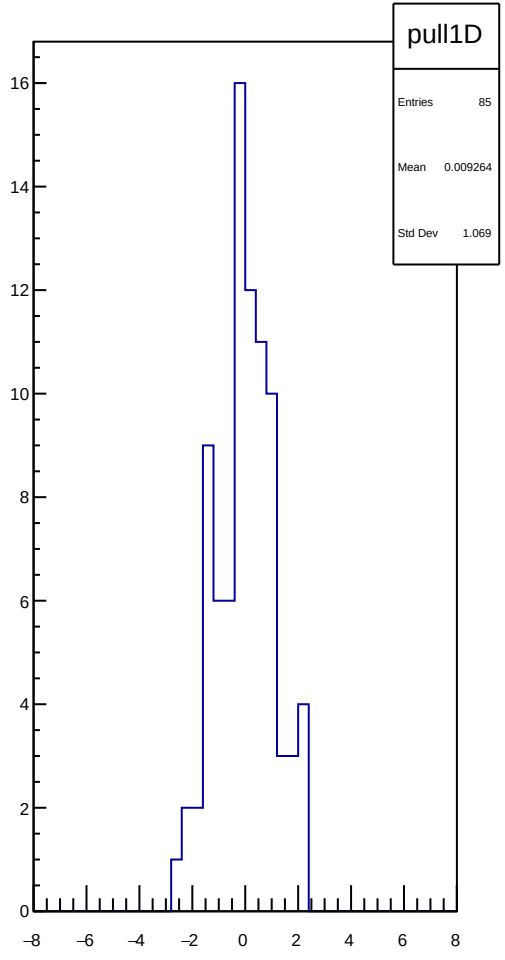

diff_bpm0l09X_rms vs run
χ² / ndf 9178 / 84
p0 9588 ± 7.563
11500
11000
10500
10000
9500
9000
8500
8000
7500

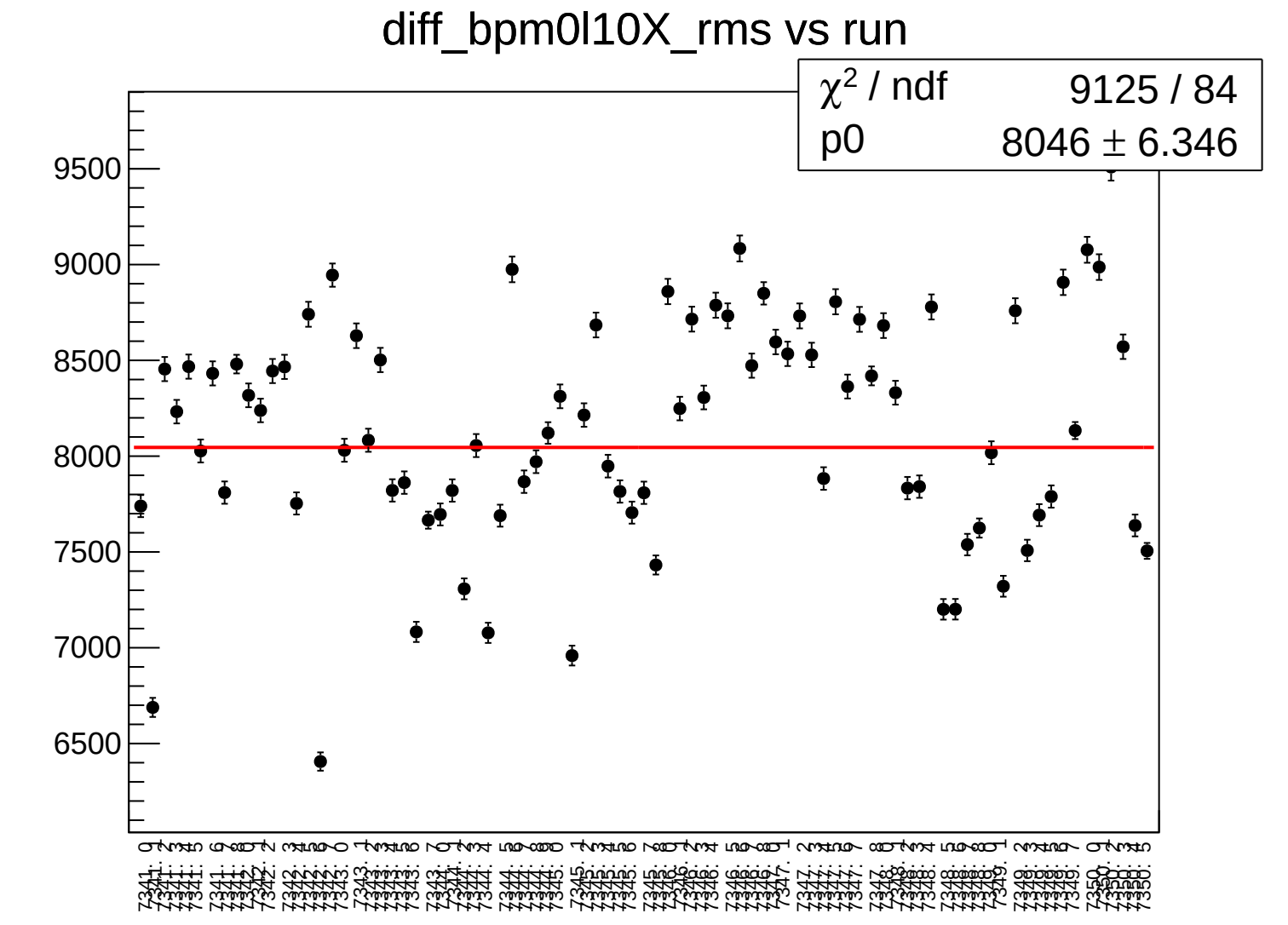

diff_bpm0l09Y_mean vs run
χ² / ndf 76.94 / 84
p0 0.7096 ± 1.502
pull
Entries 85
Mean −342.2
Std Dev 0

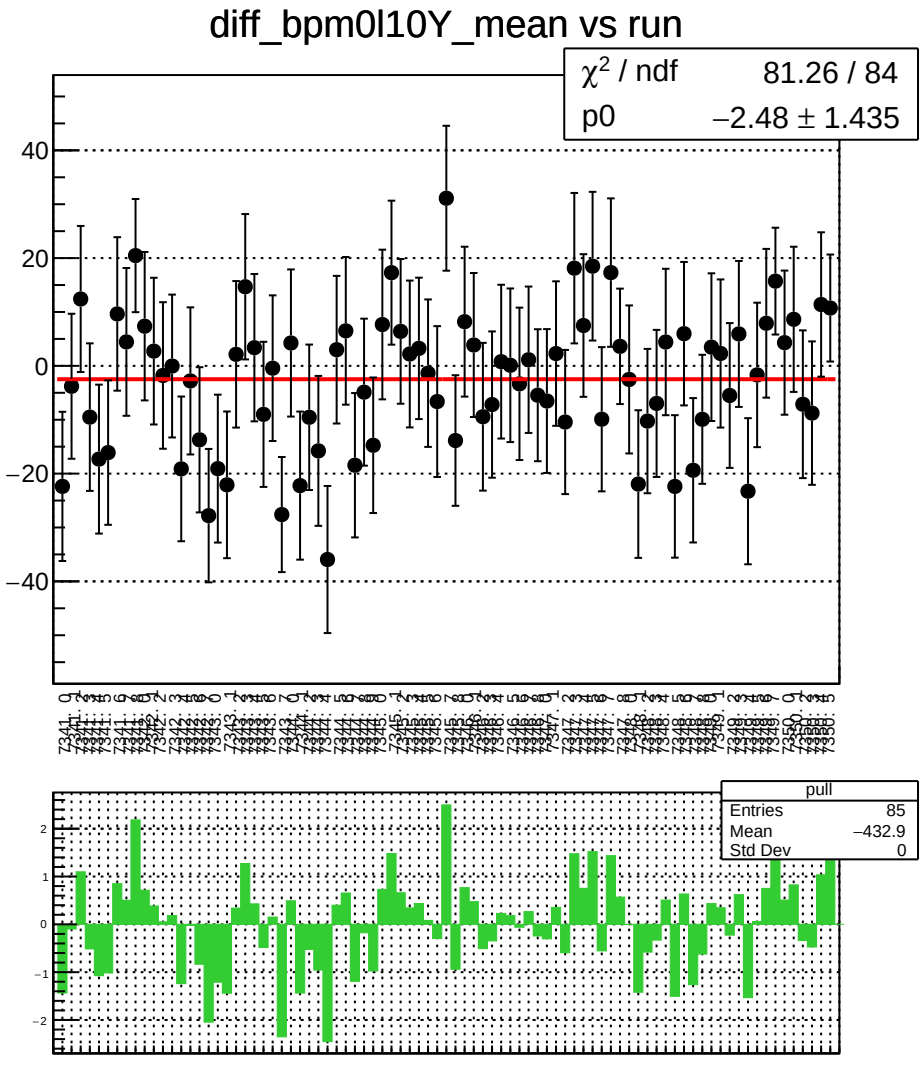

pull1D
Entries 85
Mean −0.009698
Std Dev 0.9514

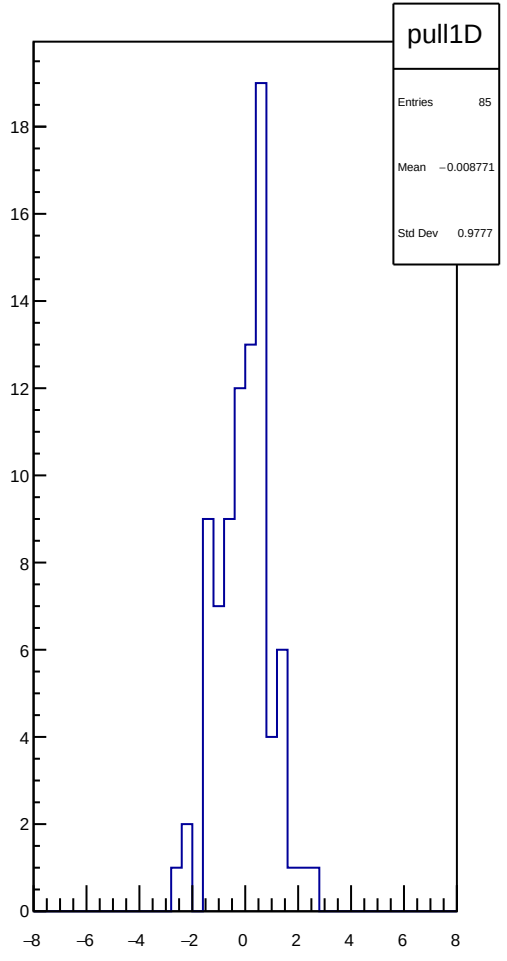

diff_bpm0l09Y_rms vs run
χ² / ndf 694.8 / 84
p0 1350 ± 1.062
1420
1400
1380
1360
1340
1320
1300
1280
1260

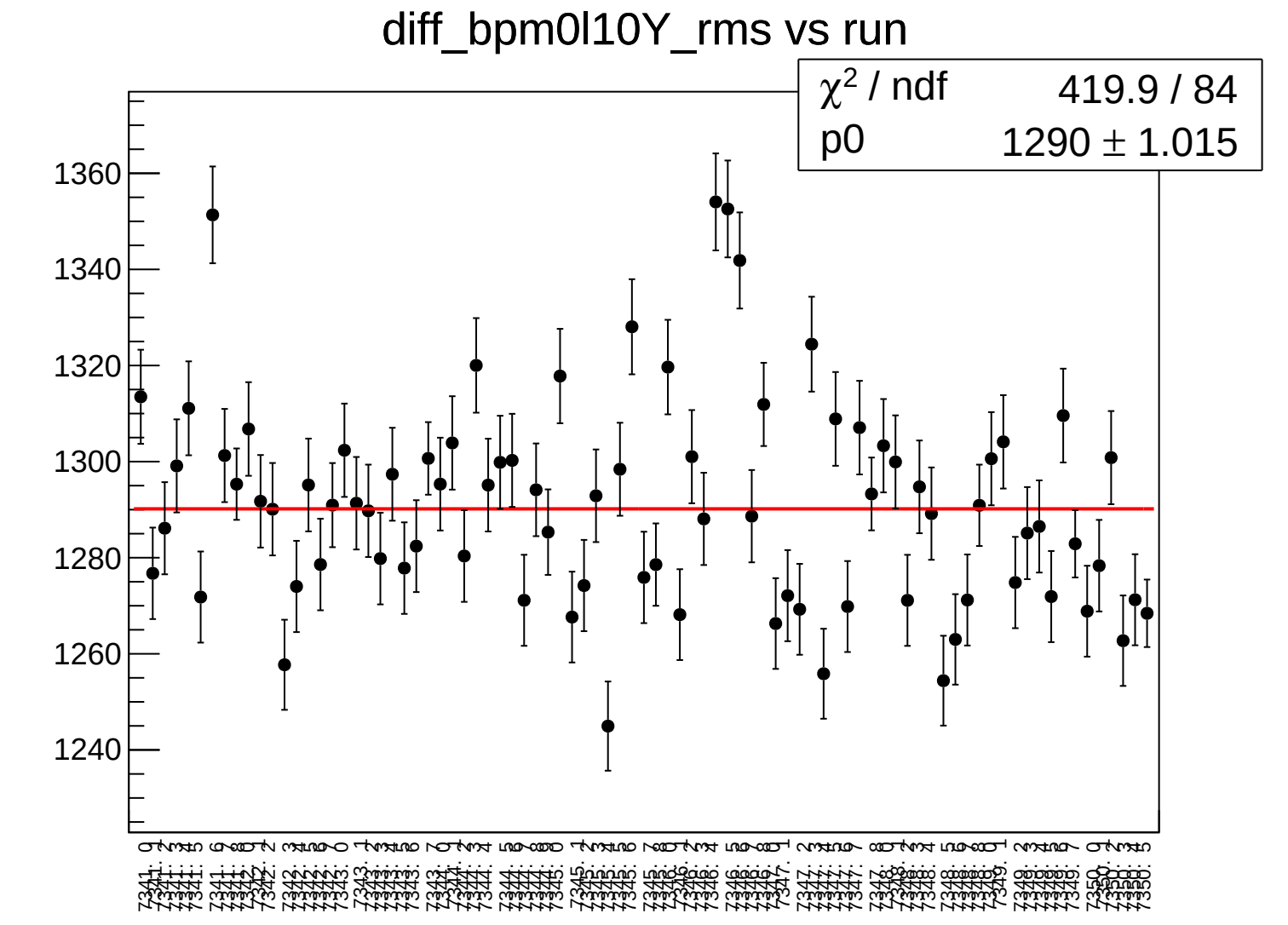

diff_bpm0l10X_mean vs run
χ² / ndf 97.18 / 84
p0 −14.38 ± 8.975
300
200
100
0
−100
−200
−300
pull
Entries 85
Mean −295.4
Std Dev 0
2
1
0
−1
−2

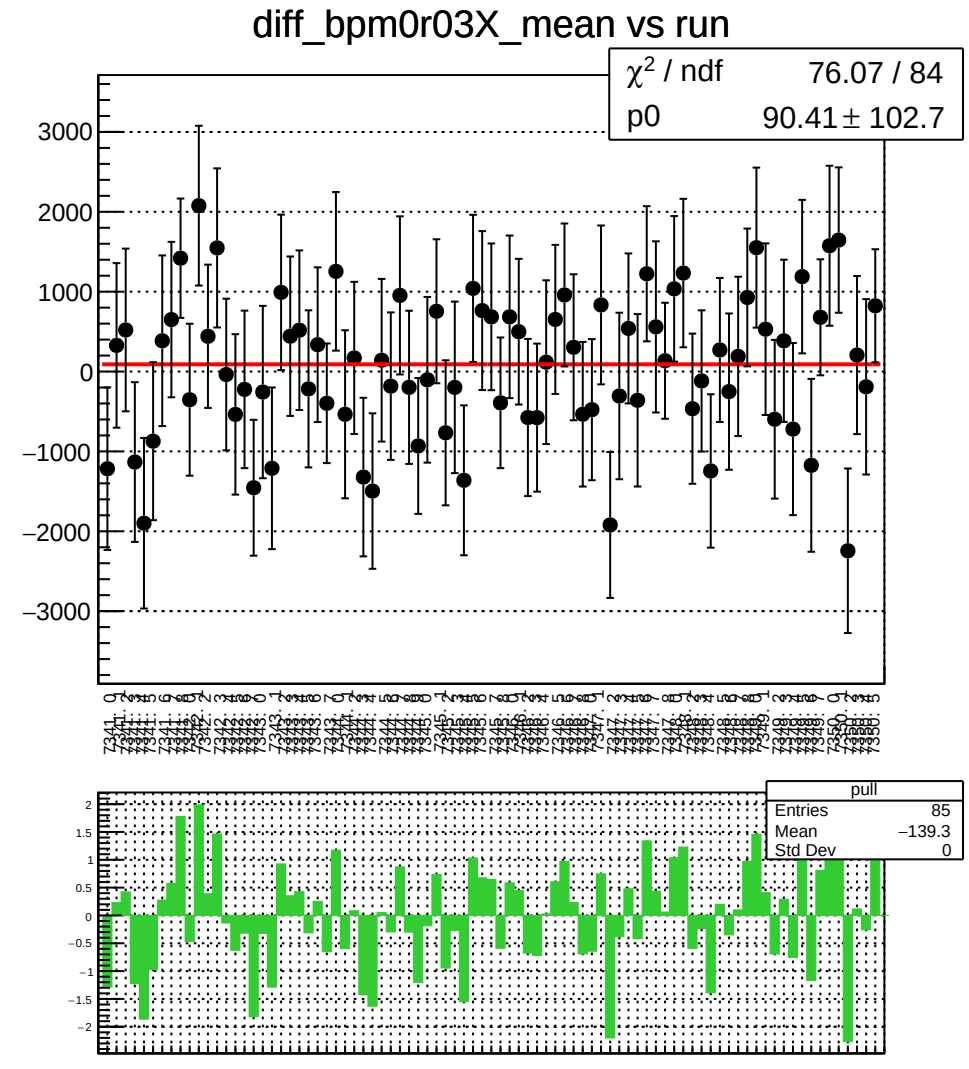

pull1D
Entries 85
Mean 0.009264
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

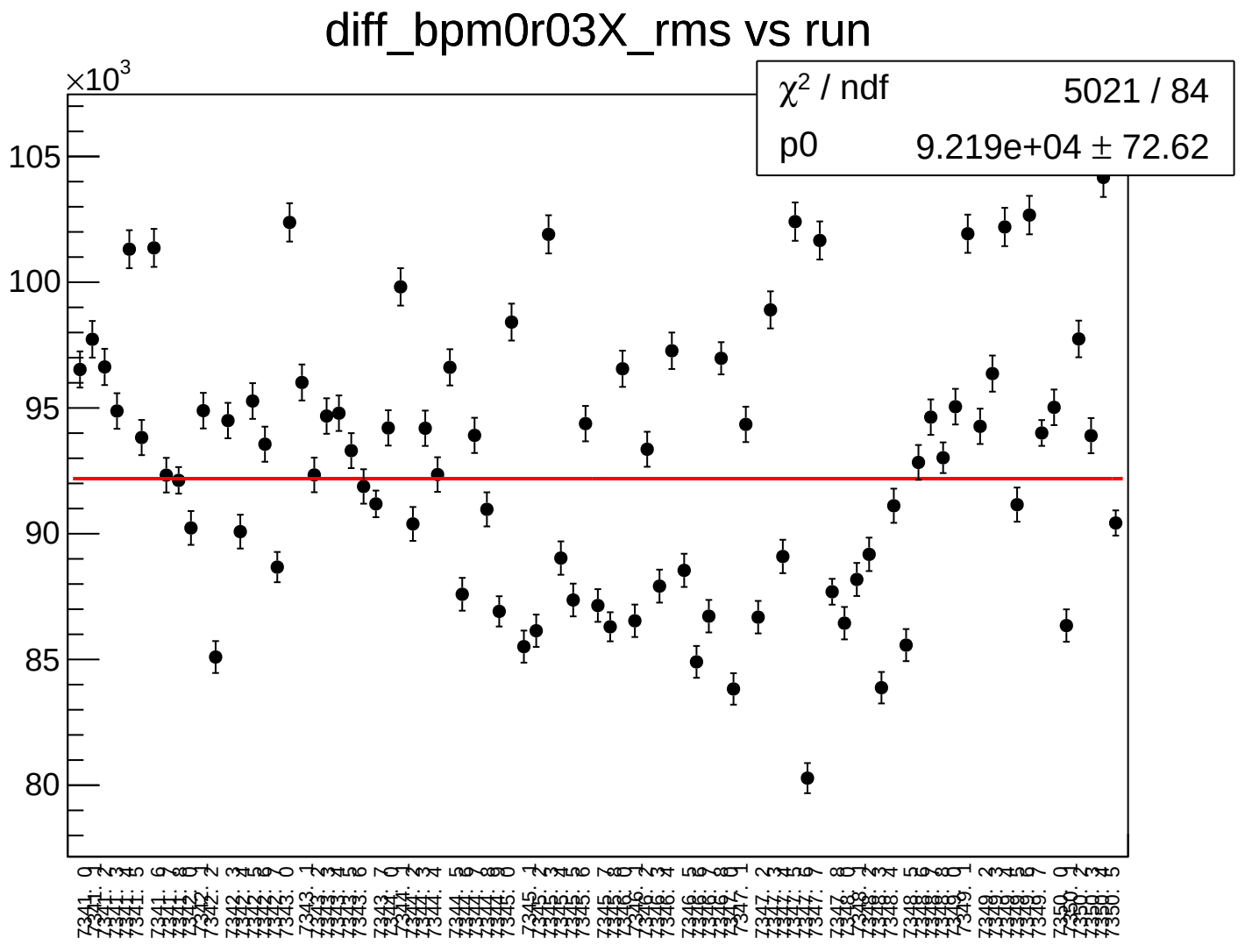

diff_bpm0l10X_rms vs run
χ² / ndf 9125 / 84
p0 8046 ± 6.346
9500
9000
8500
8000
7500
7000
6500

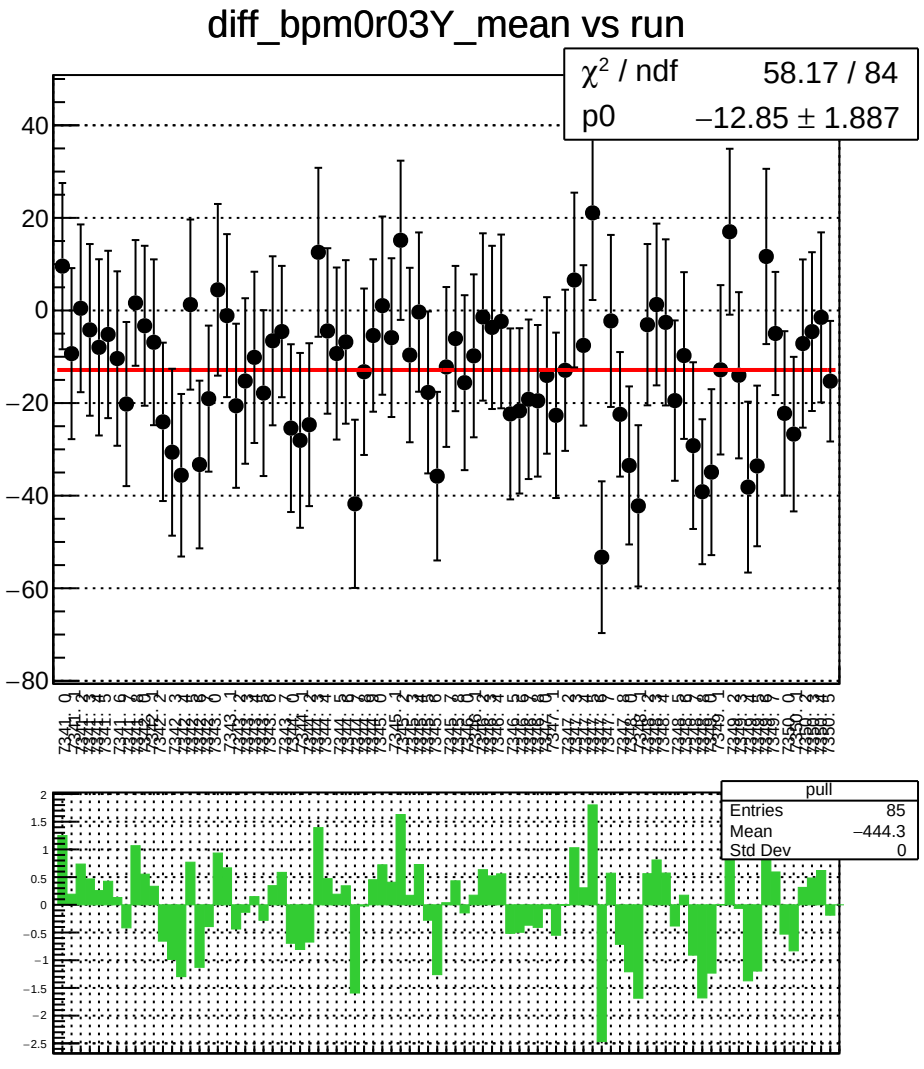

diff_bpm0l10Y_mean vs run
χ² / ndf 81.26 / 84
p0 −2.48 ± 1.435
40
20
0
−20
−40
pull
Entries 85
Mean −432.9
Std Dev 0
2
1
0
−1
−2

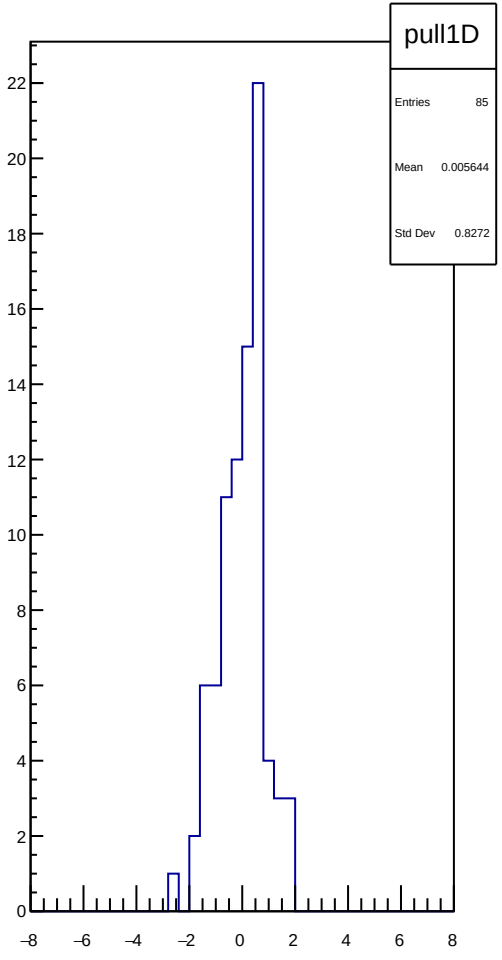

pull1D
Entries 85
Mean −0.008771
Std Dev 0.9777
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

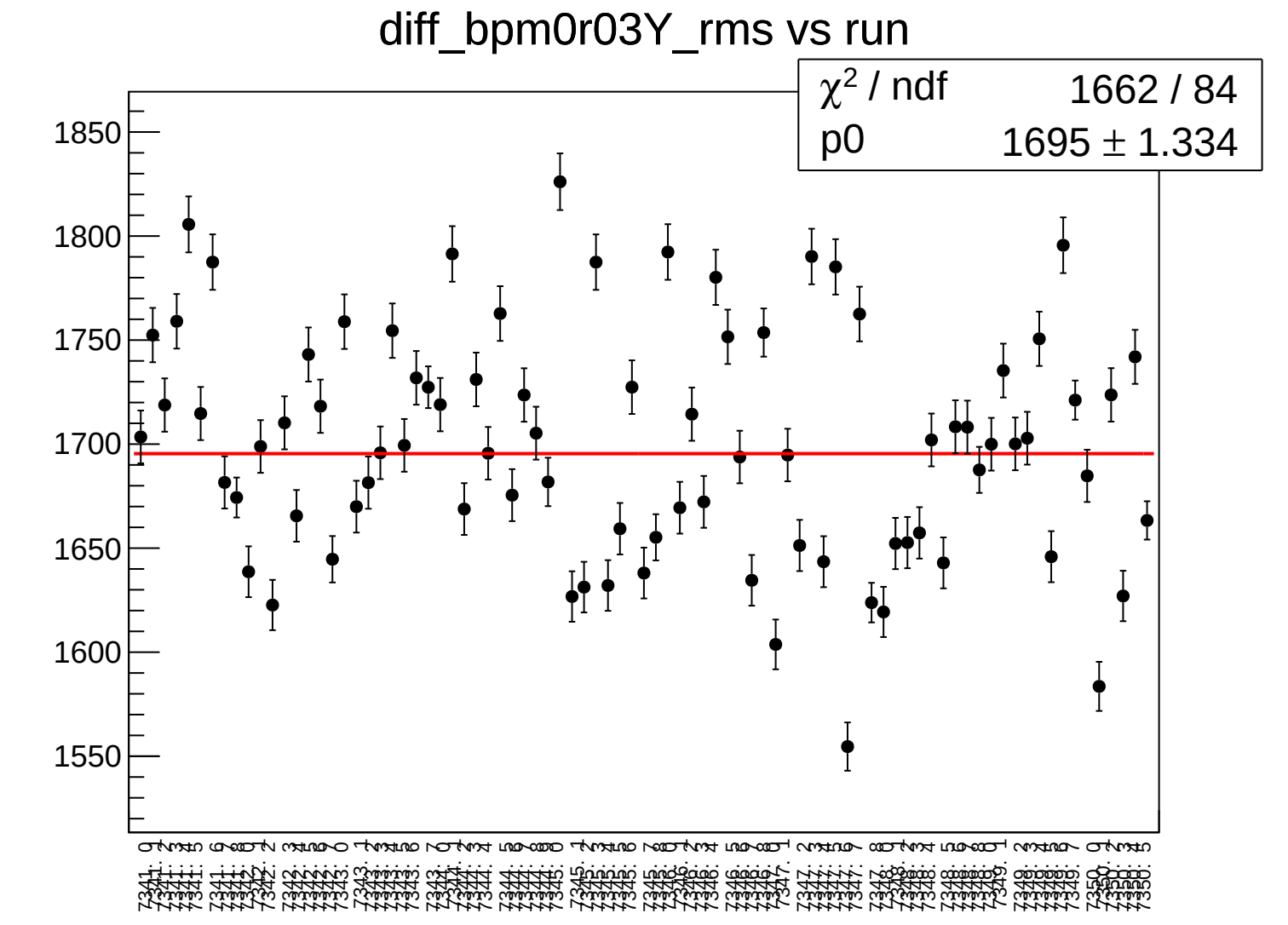

diff_bpm0l10Y_rms vs run
χ² / ndf 419.9 / 84
p0 1290 ± 1.015
1360
1340
1320
1300
1280
1260
1240

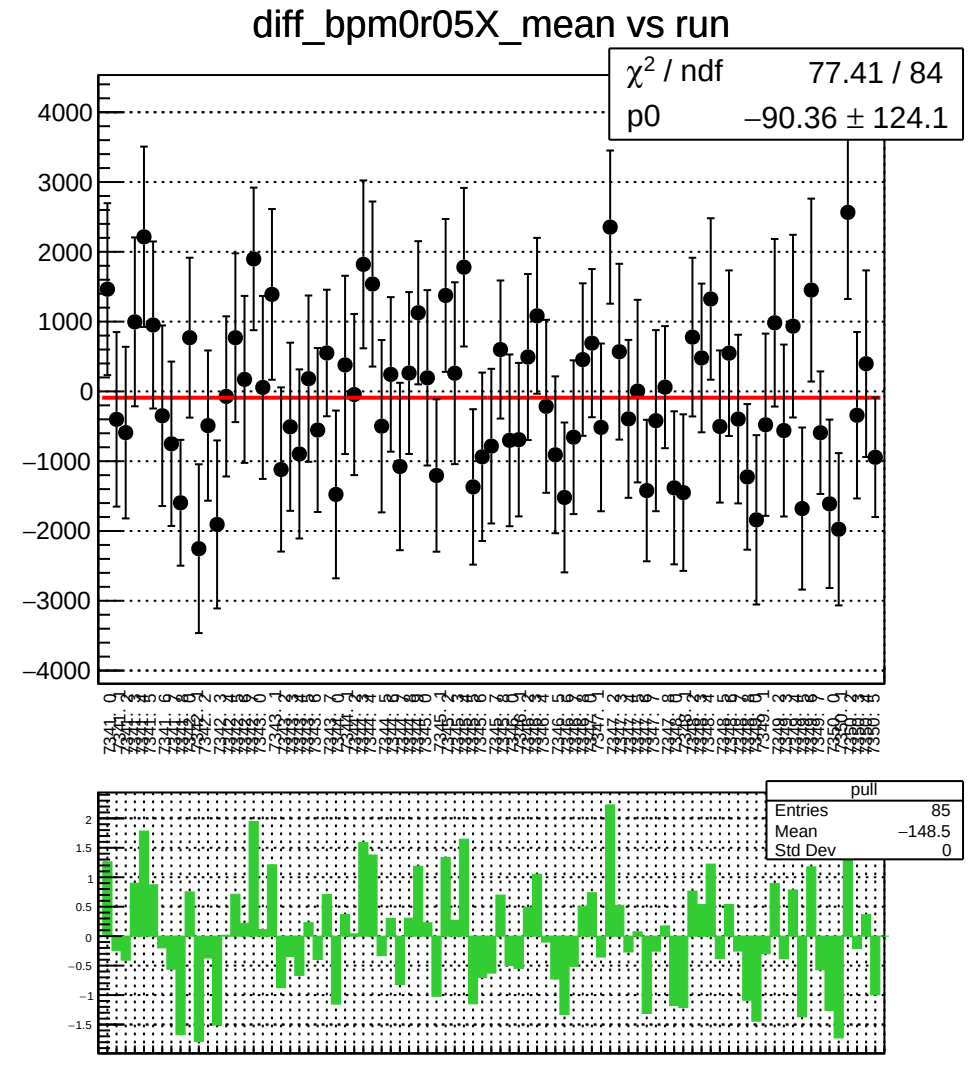

diff_bpm0r03X_mean vs run
χ² / ndf 76.07 / 84
p0 90.41 ± 102.7
pull
Entries 85
Mean −139.3
Std Dev 0
pull1D
Entries 85
Mean −0.01659
Std Dev 0.9459

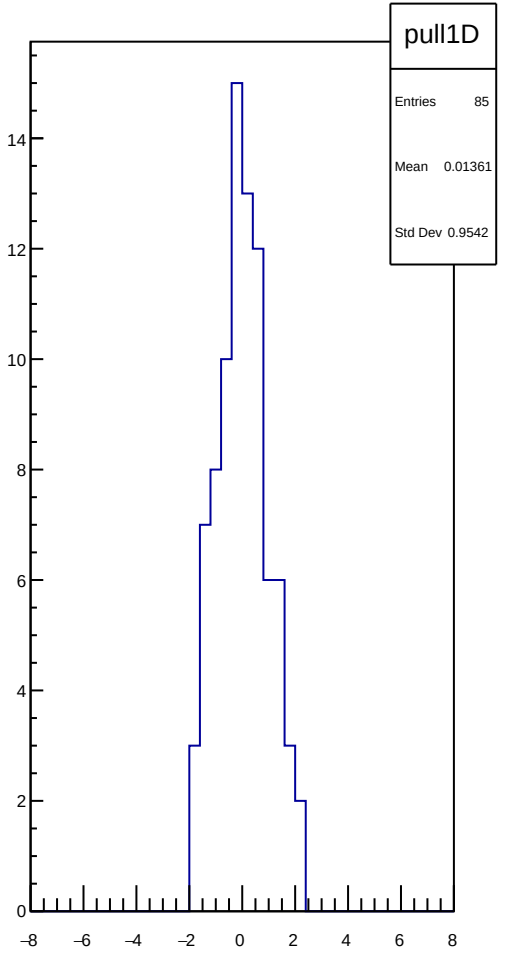

diff_bpm0r03X_rms vs run
×10^3
χ² / ndf 5021 / 84
p0 9.219e+04 ± 72.62
105
100
95
90
85
80

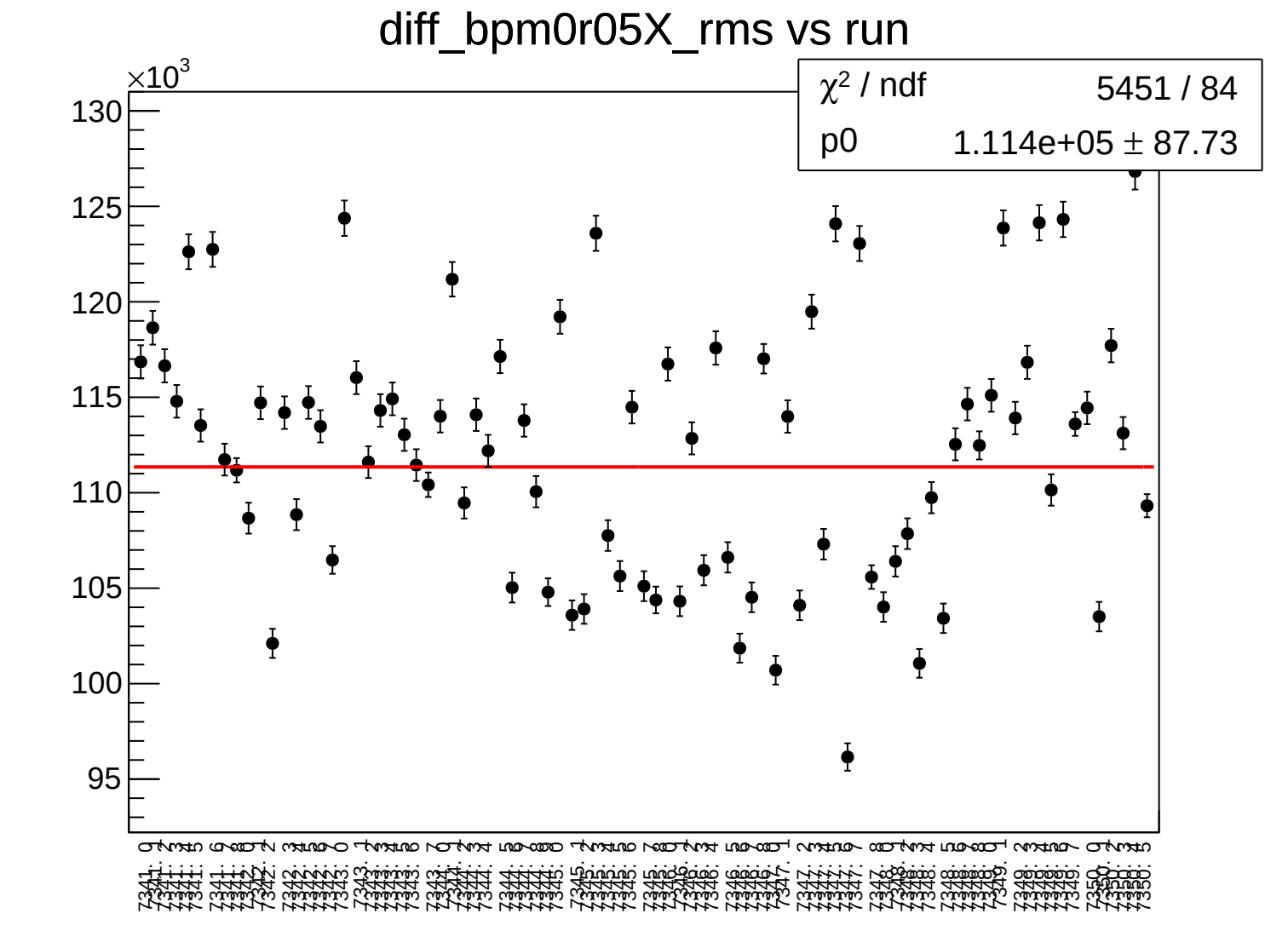

diff_bpm0r03Y_mean vs run
χ² / ndf 58.17 / 84
p0 −12.85 ± 1.887
pull
Entries 85
Mean −444.3
Std Dev 0

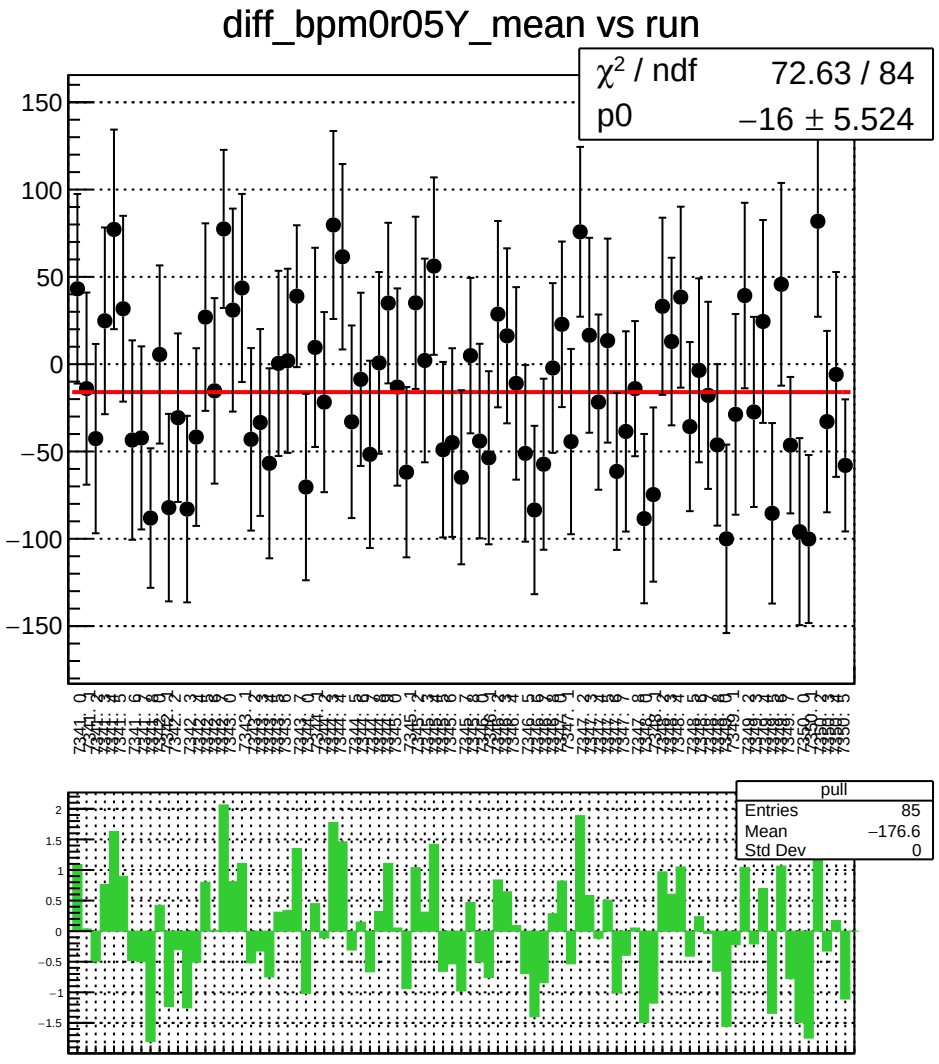

pull1D
Entries 85
Mean 0.005644
Std Dev 0.8272

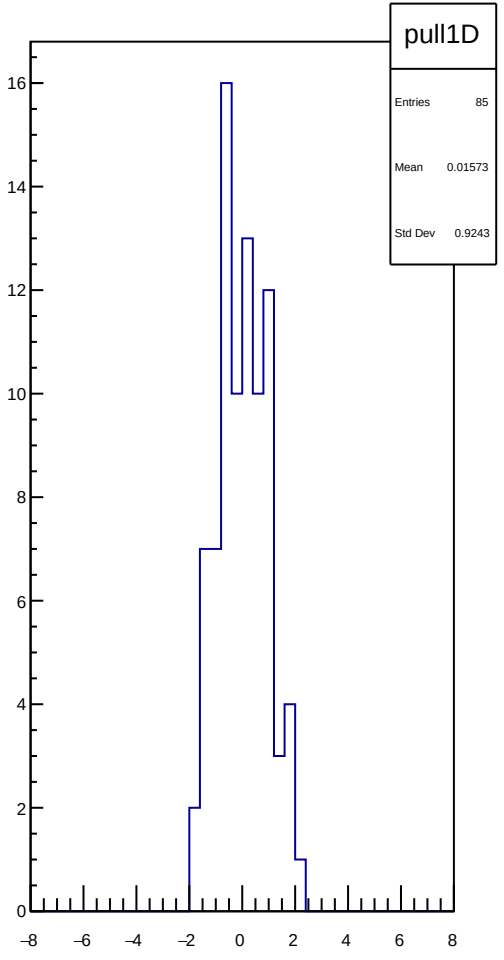

diff_bpm0r03Y_rms vs run
χ² / ndf 1662 / 84
p0 1695 ± 1.334
1850
1800
1750
1700
1650
1600
1550

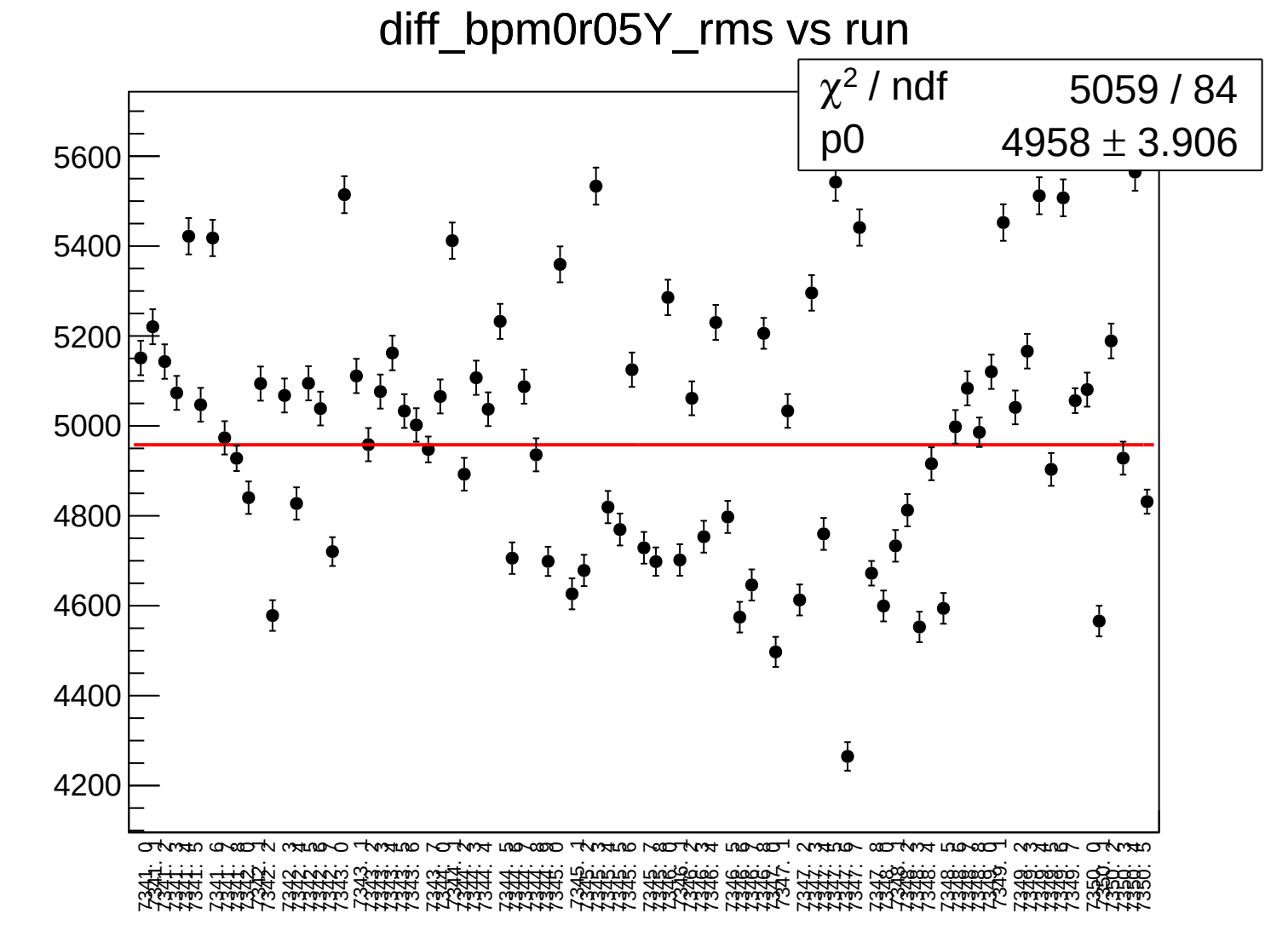

diff_bpm0r05X_mean vs run
χ² / ndf 77.41 / 84
p0 −90.36 ± 124.1
pull
Entries 85
Mean −148.5
Std Dev 0

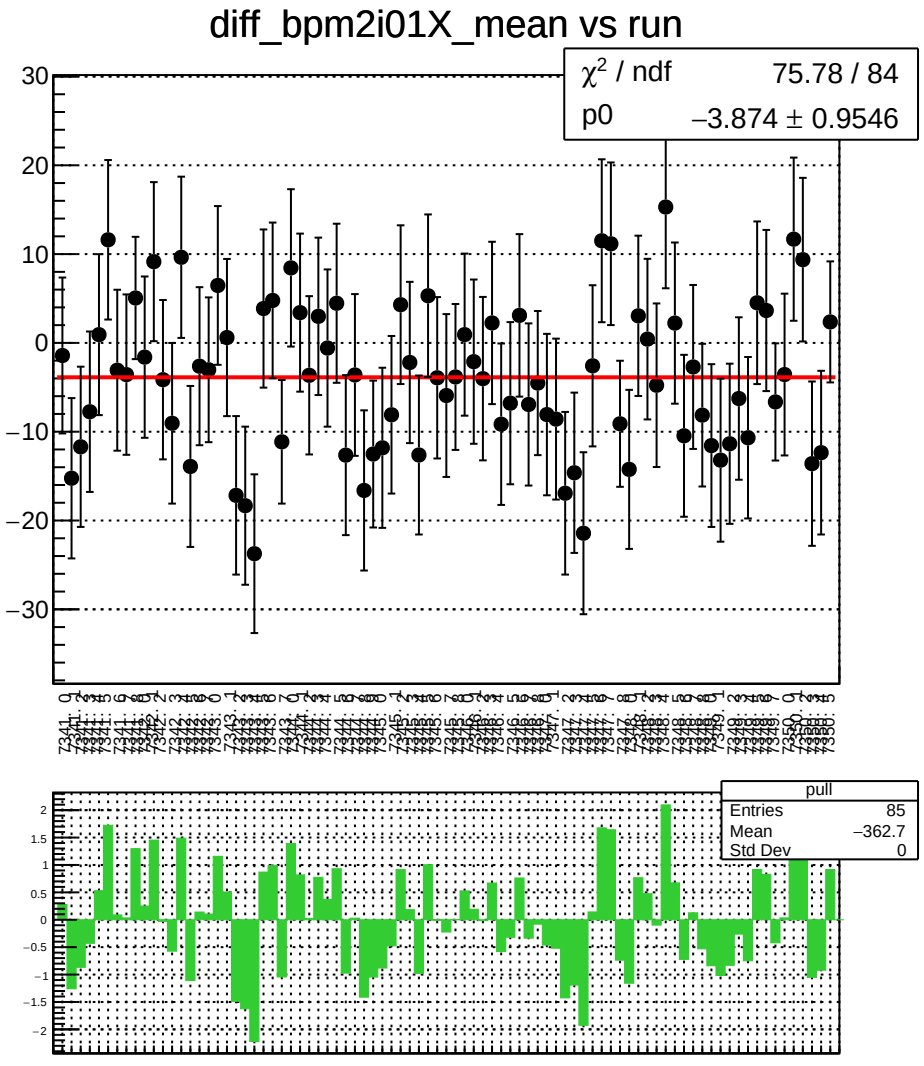

pull1D
Entries 85
Mean 0.01361
Std Dev 0.9542

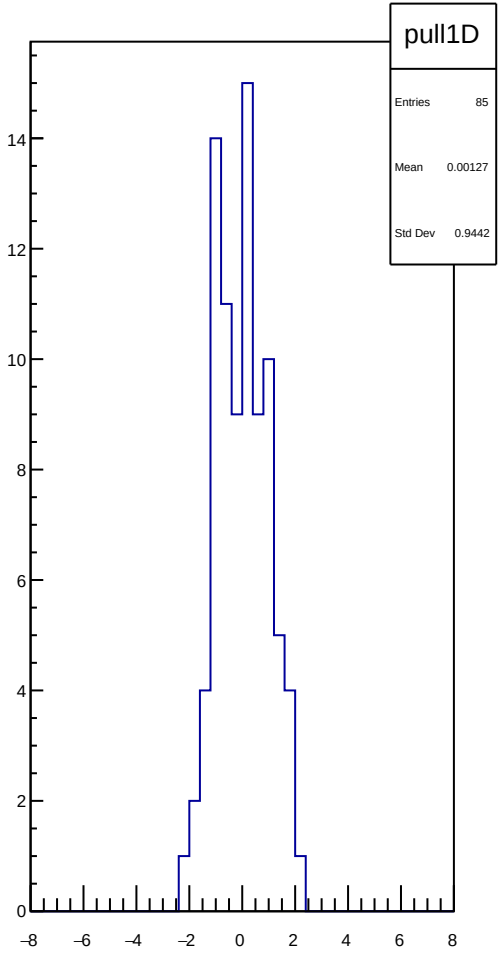

diff_bpm0r05X_rms vs run
×10^3
130
125
120
115
110
105
100
95
χ² / ndf 5451 / 84
p0 1.114e+05 ± 87.73

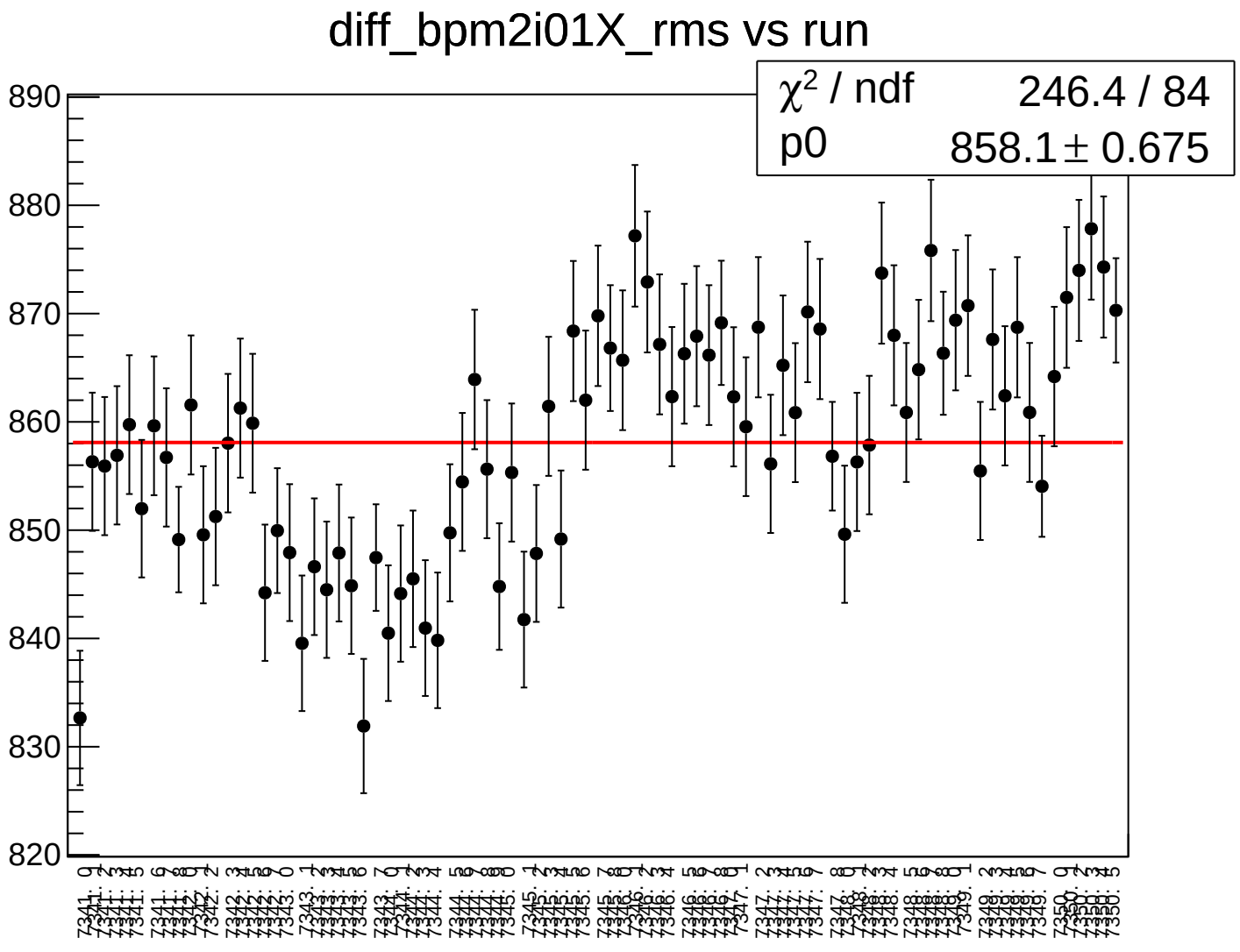

diff_bpm0r05Y_mean vs run
χ² / ndf 72.63 / 84
p0 −16 ± 5.524
150
100
50
0
−50
−100
−150
pull
Entries 85
Mean −176.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

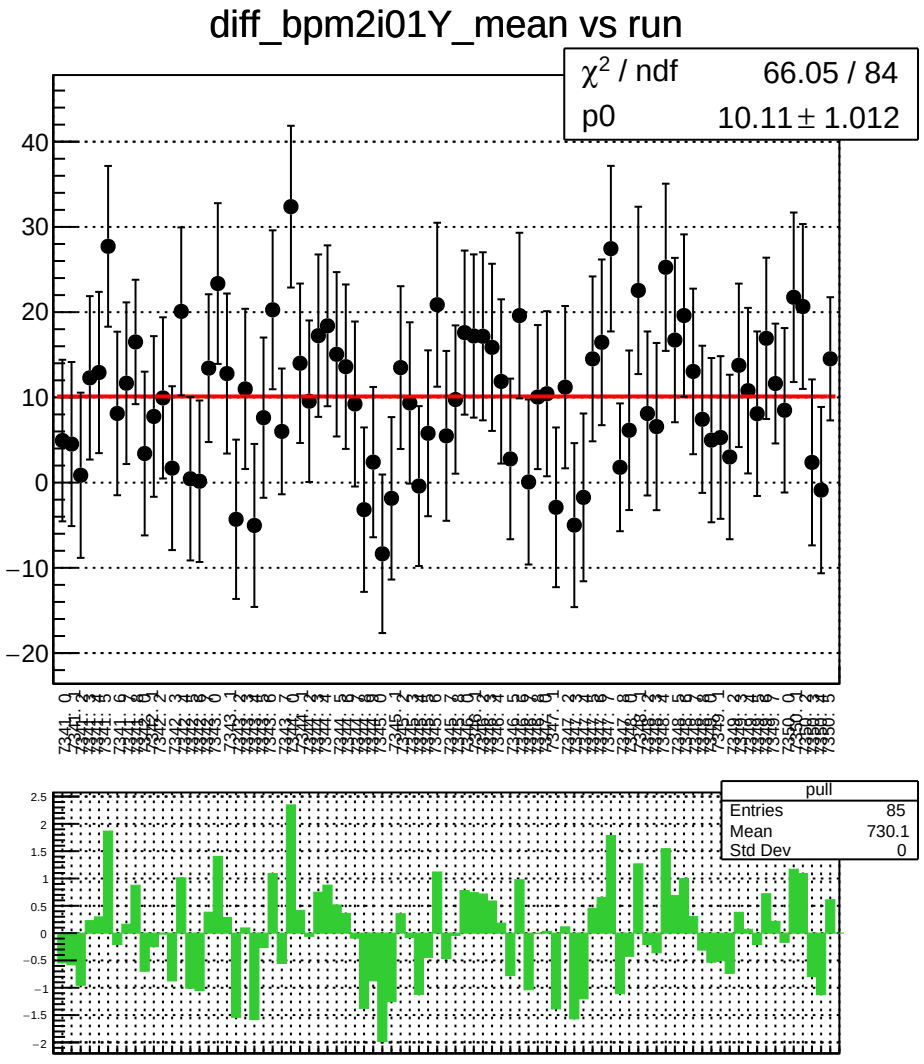

pull1D
Entries 85
Mean 0.01573
Std Dev 0.9243
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

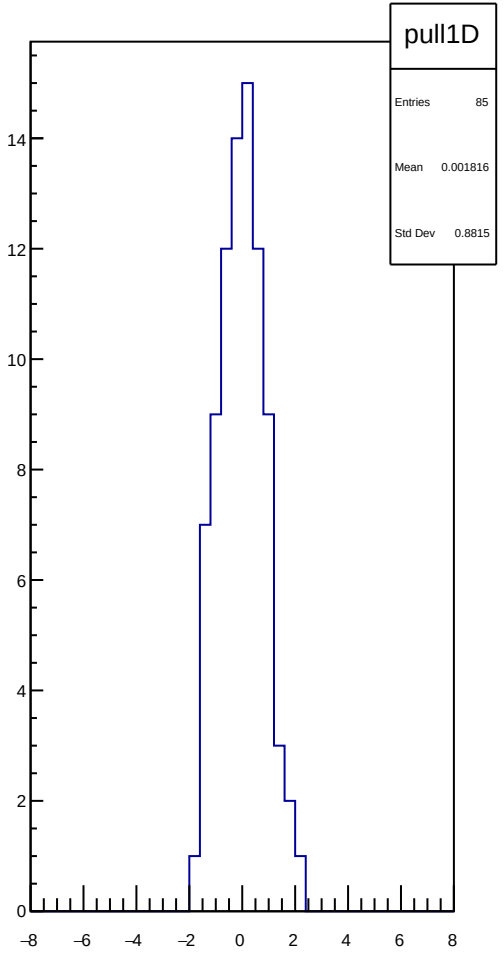

diff_bpm0r05Y_rms vs run
χ^2 / ndf 5059 / 84
p0 4958 ± 3.906
5600
5400
5200
5000
4800
4600
4400
4200

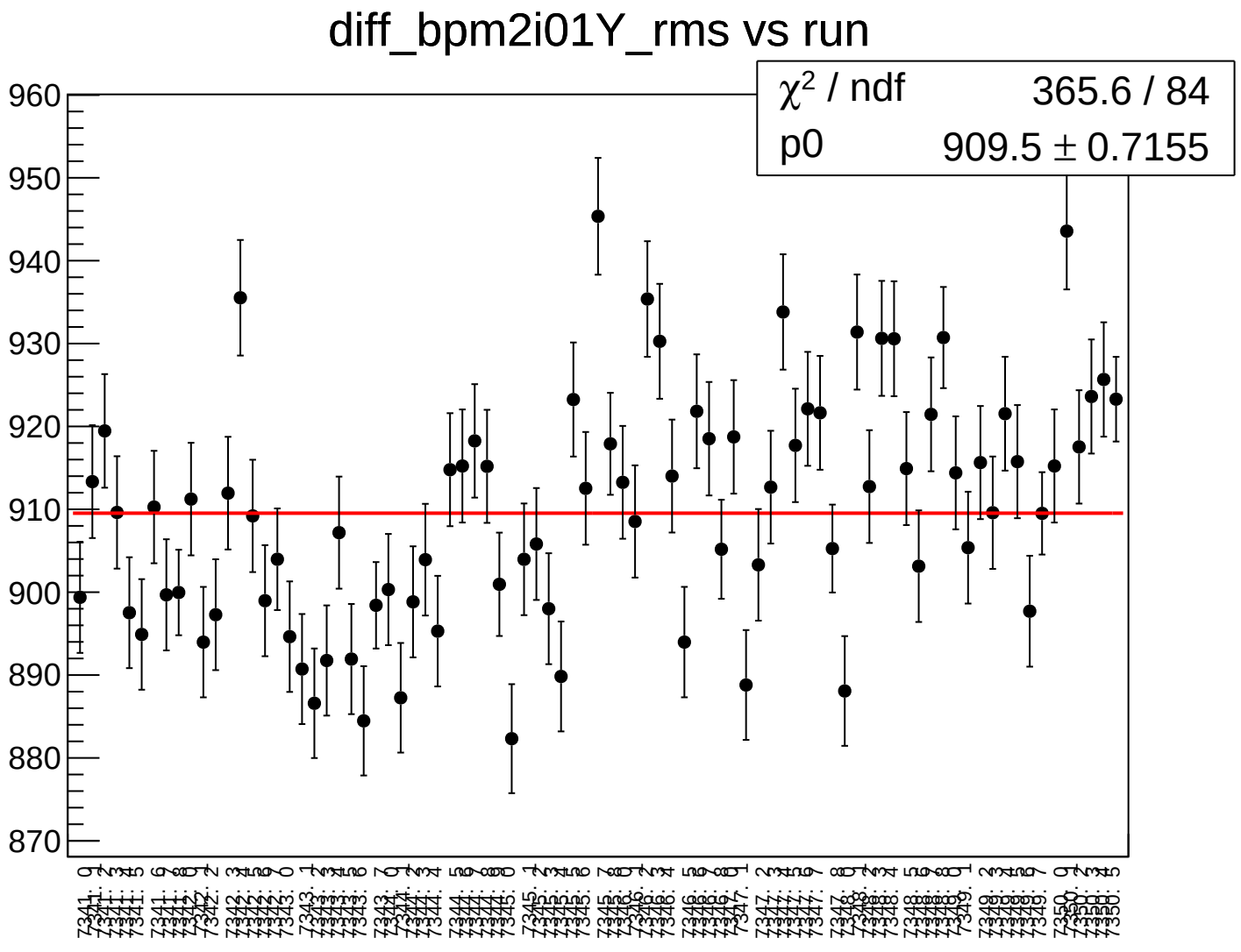

diff_bpm2i01X_mean vs run
χ² / ndf 75.78 / 84
p0 −3.874 ± 0.9546
pull
Entries 85
Mean −362.7
Std Dev 0

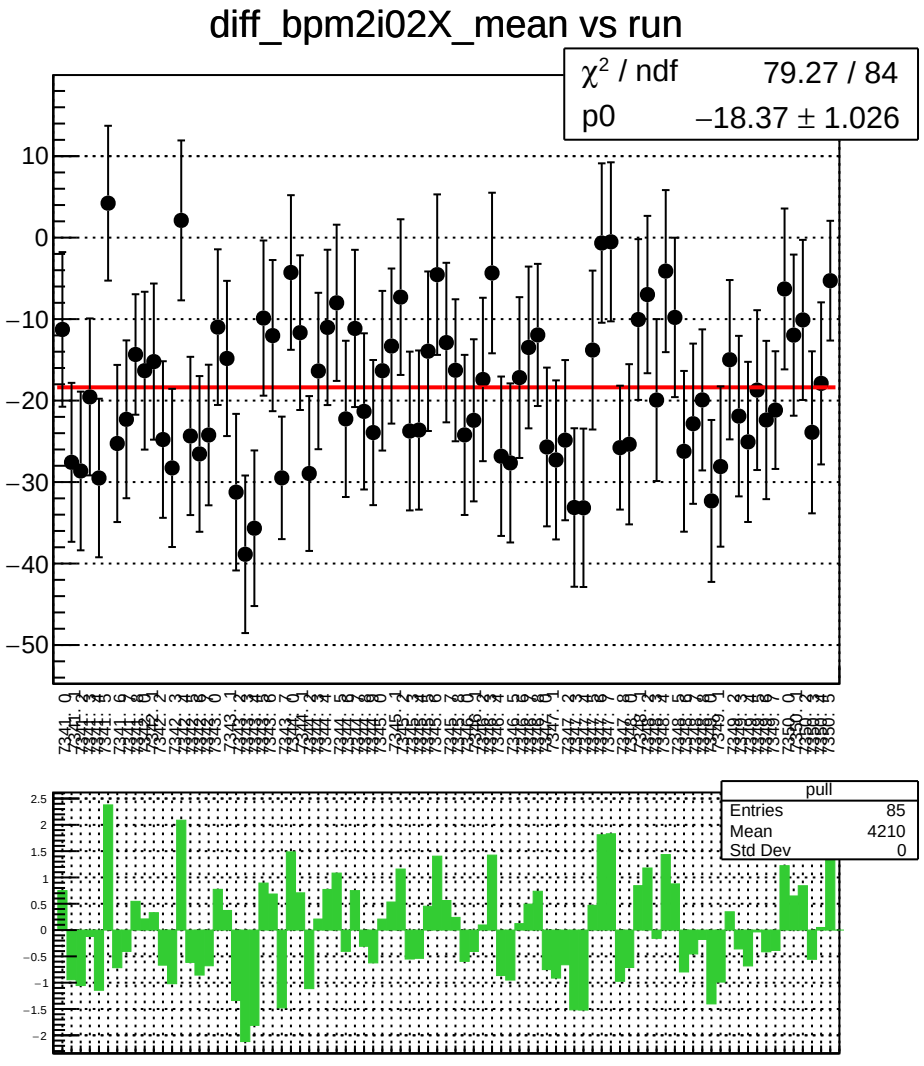

pull1D
Entries 85
Mean 0.00127
Std Dev 0.9442

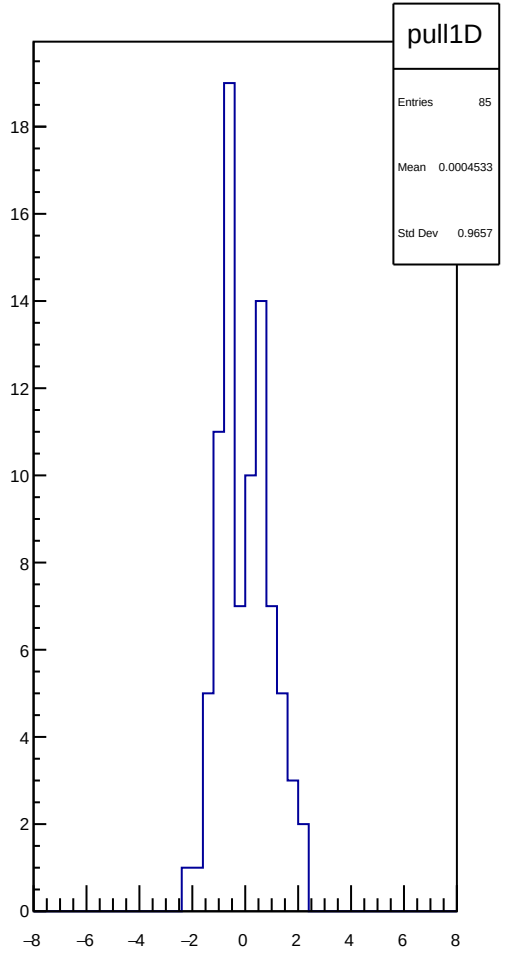

diff_bpm2i01X_rms vs run
χ² / ndf 246.4 / 84
p0 858.1 ± 0.675
890
880
870
860
850
840
830
820

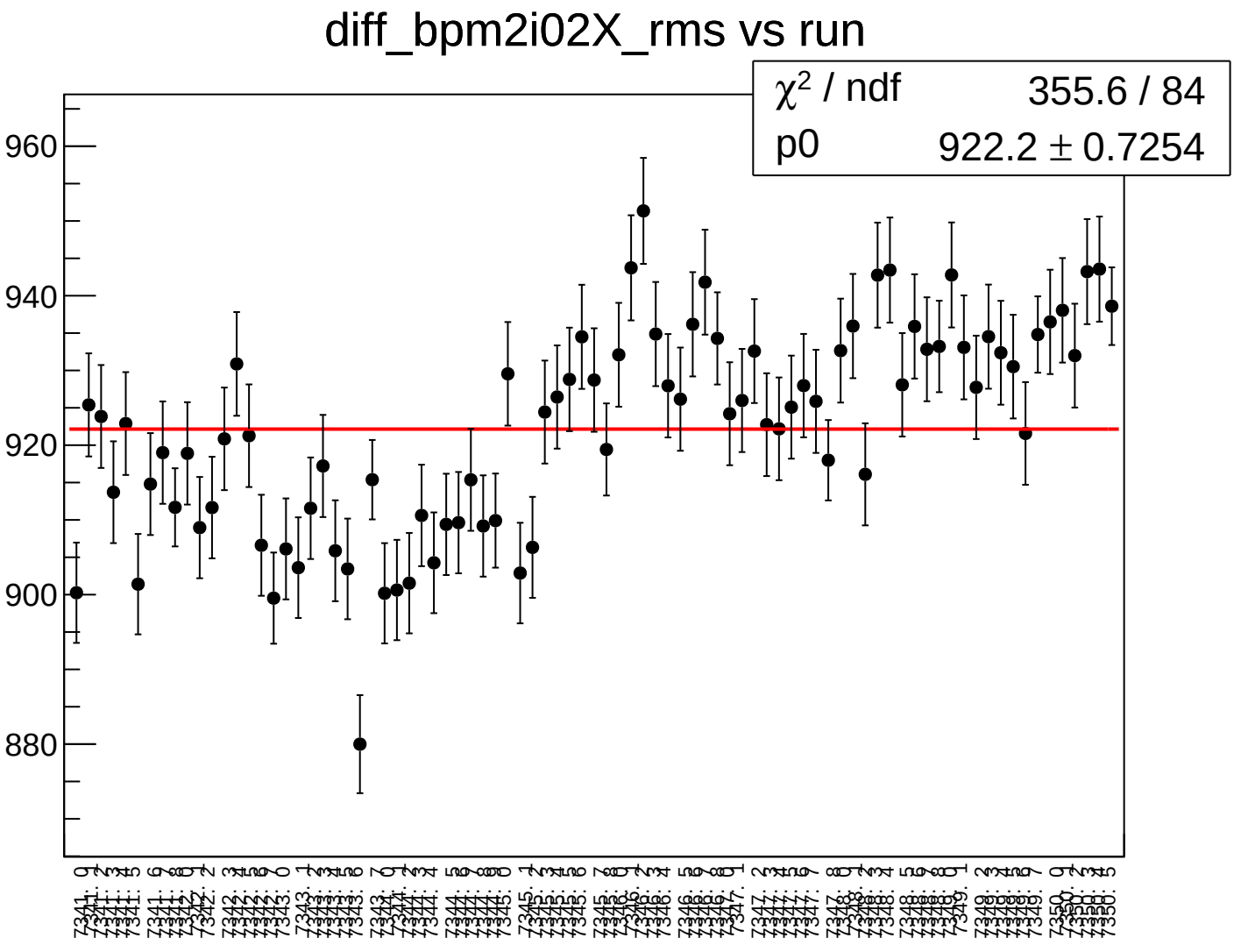

diff_bpm2i01Y_mean vs run
χ^2 / ndf 66.05 / 84
p0 10.11 ± 1.012
pull
Entries 85
Mean 730.1
Std Dev 0

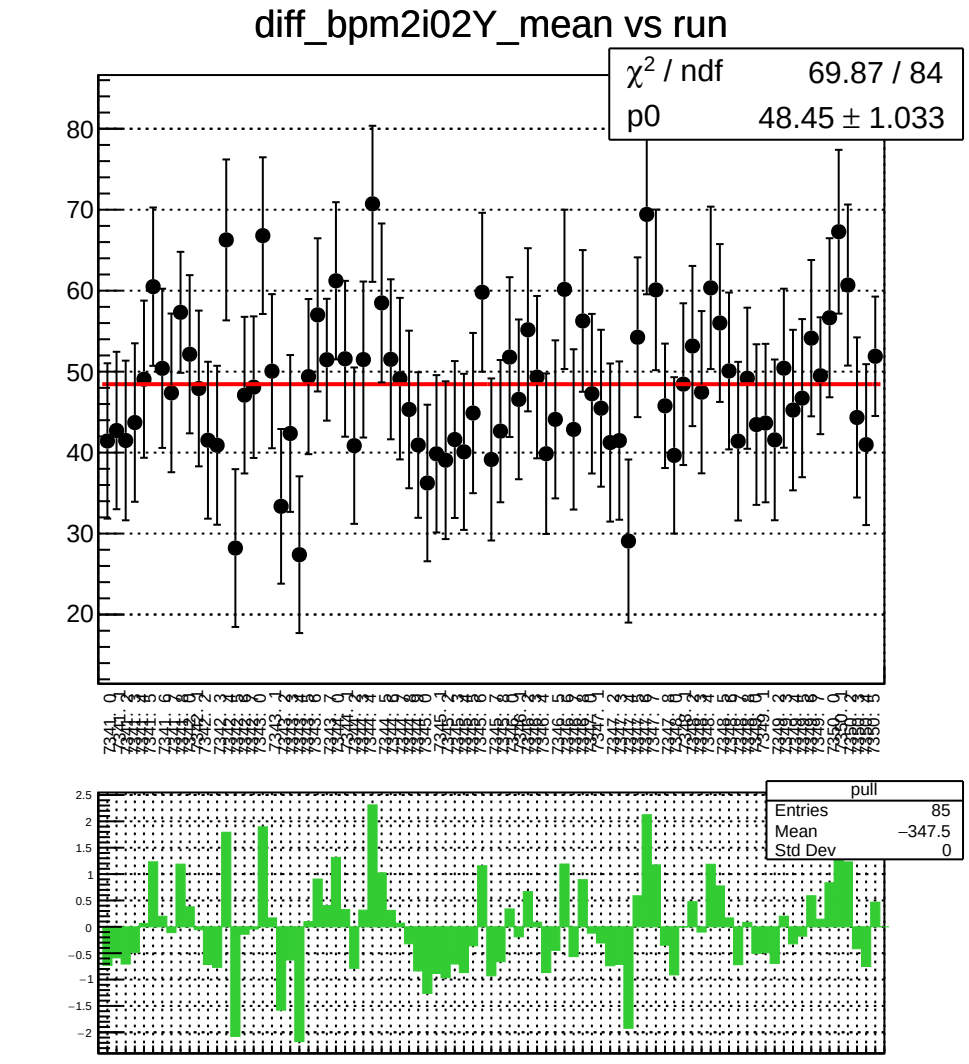

pull1D
Entries 85
Mean 0.001816
Std Dev 0.8815

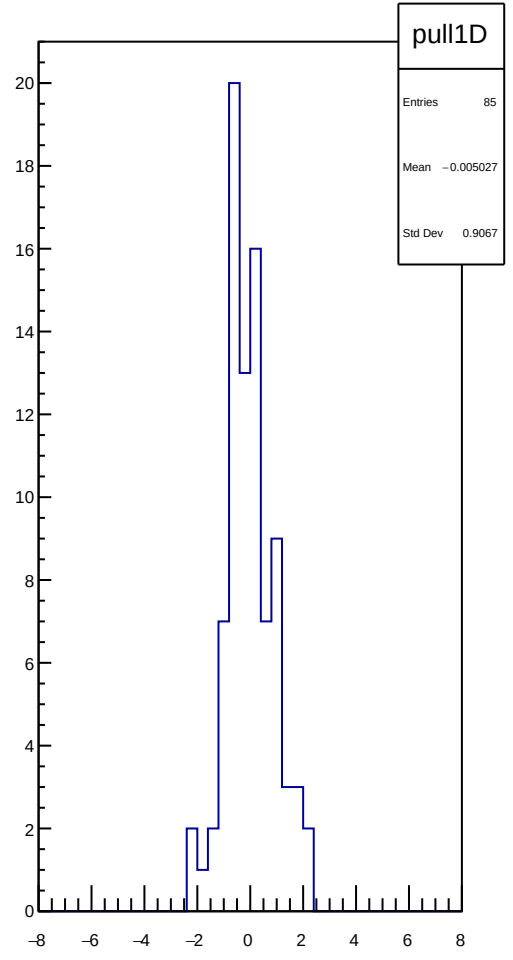

diff_bpm2i01Y_rms vs run
χ² / ndf 365.6 / 84
p0 909.5 ± 0.7155
960
950
940
930
920
910
900
890
880
870

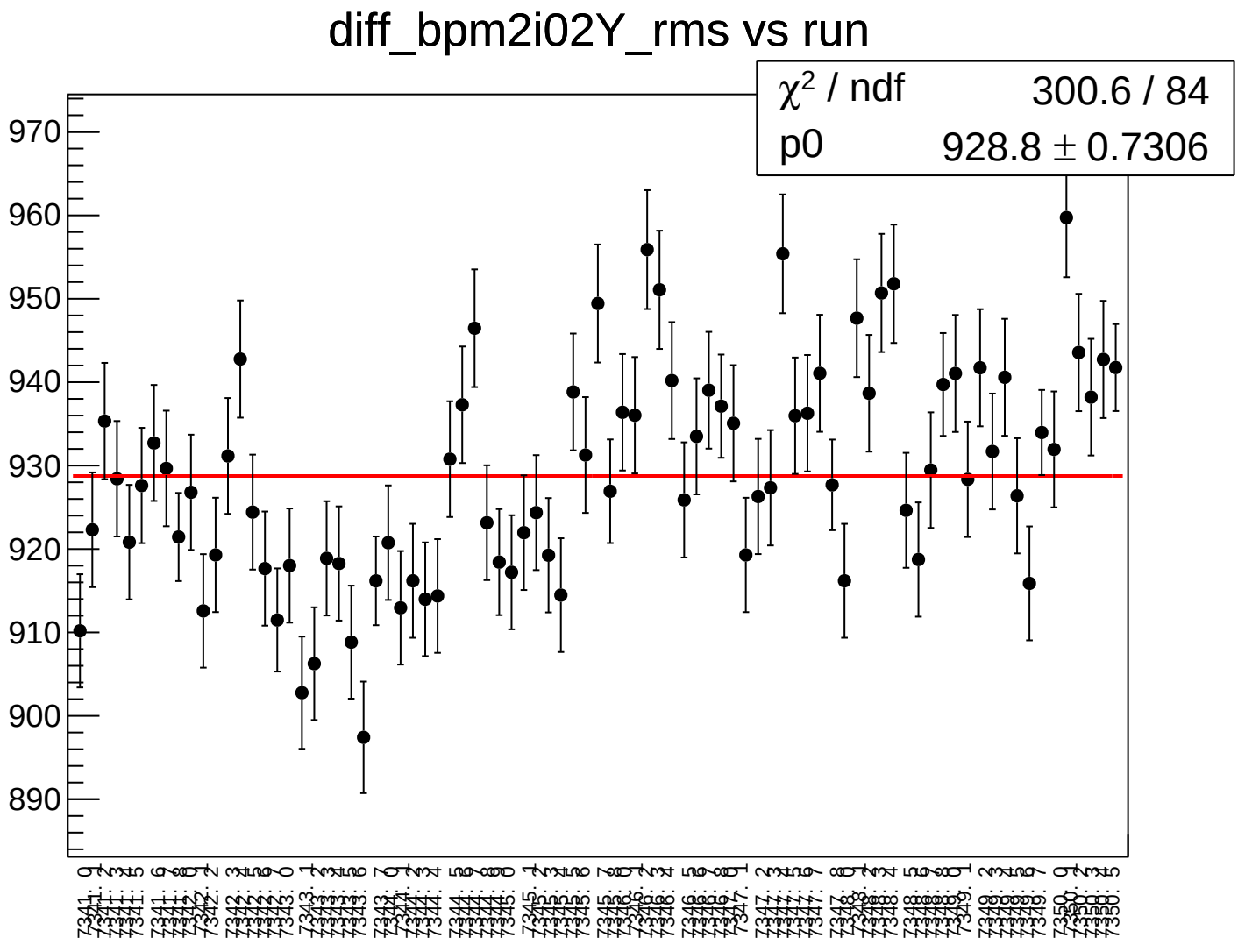

diff_bpm2i02X_mean vs run
χ² / ndf 79.27 / 84
p0 −18.37 ± 1.026
pull
Entries 85
Mean 4210
Std Dev 0

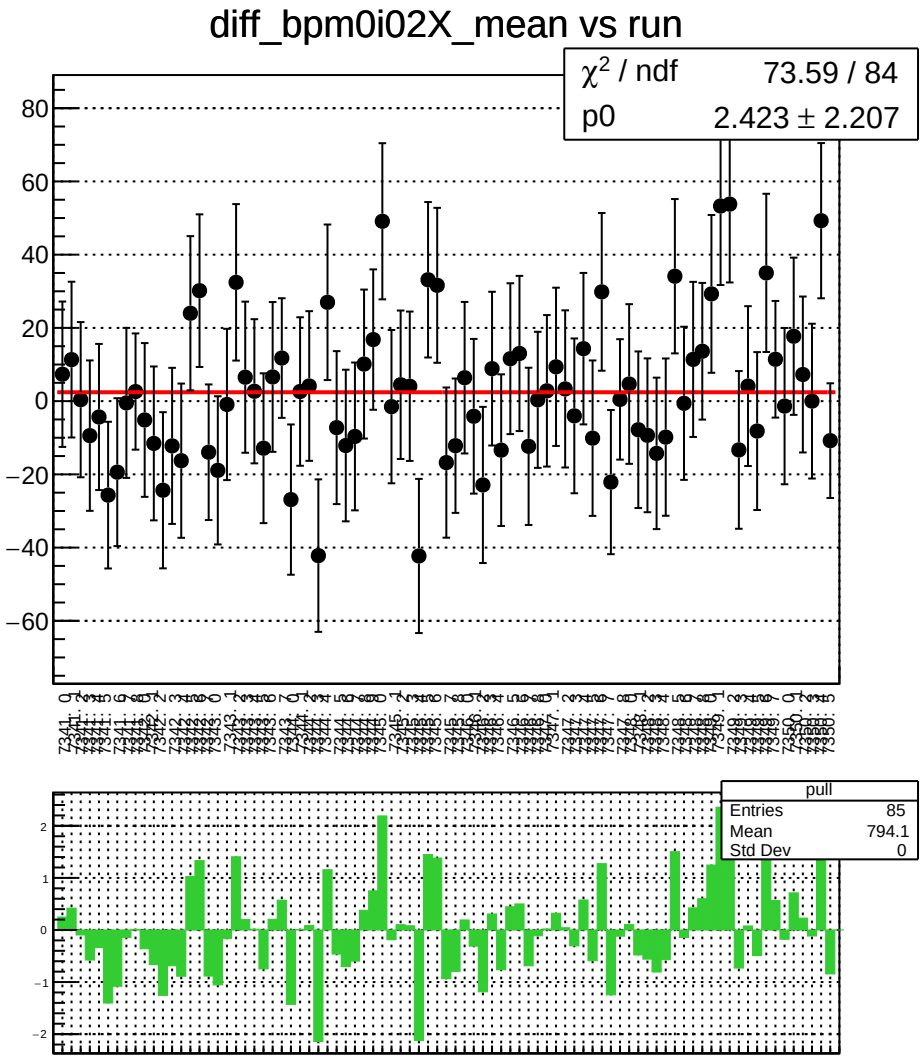

pull1D
Entries 85
Mean 0.0004533
Std Dev 0.9657

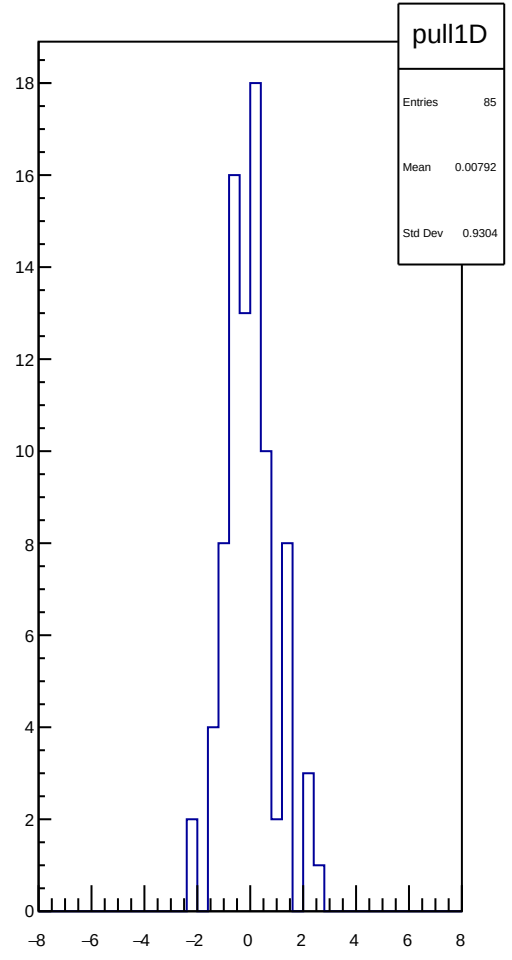

diff_bpm2i02X_rms vs run
χ² / ndf 355.6 / 84
p0 922.2 ± 0.7254
960
940
920
900
880

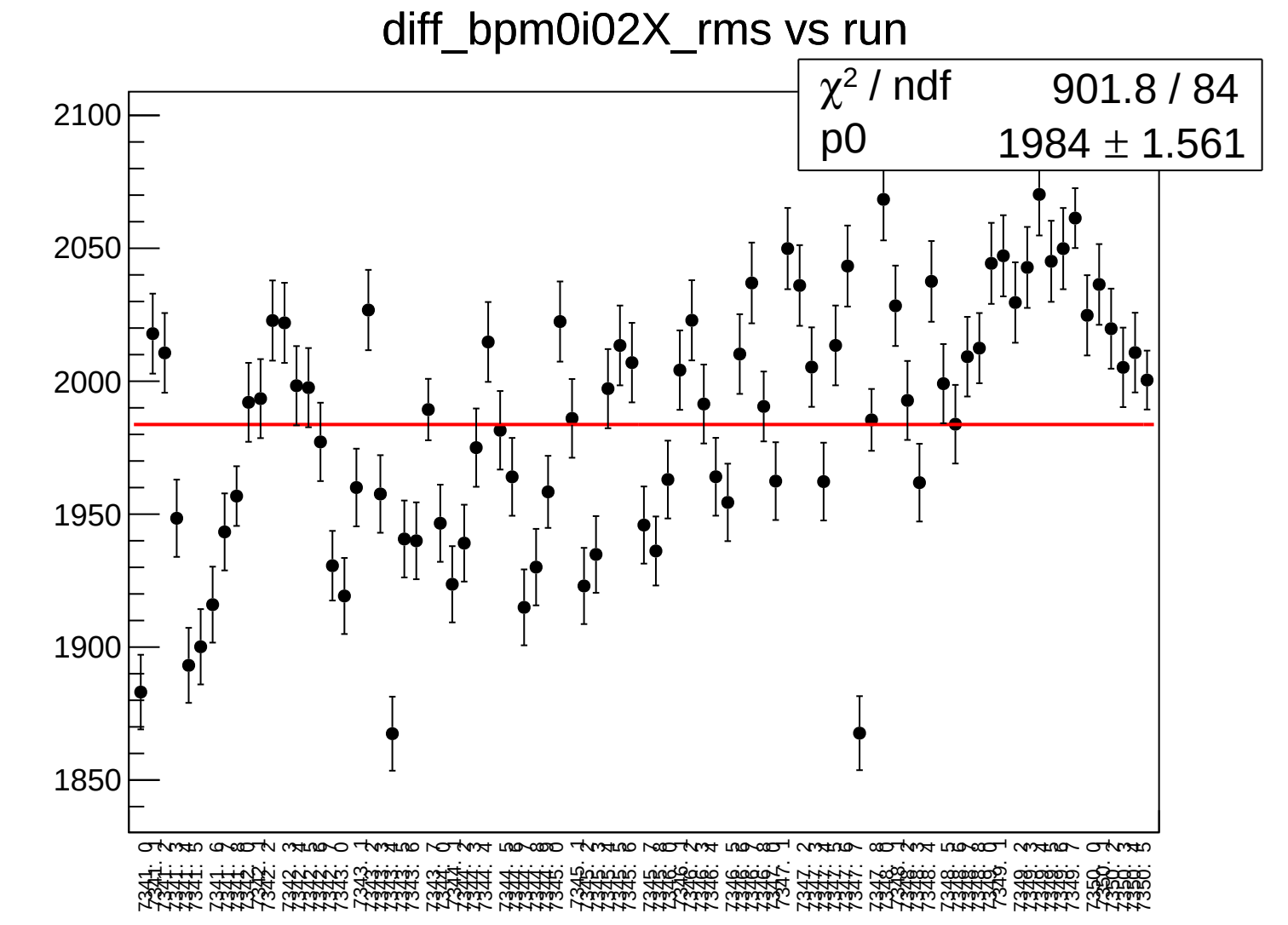

diff_bpm2i02Y_mean vs run
χ^2 / ndf 69.87 / 84
p0 48.45 ± 1.033
pull
Entries 85
Mean −347.5
Std Dev 0

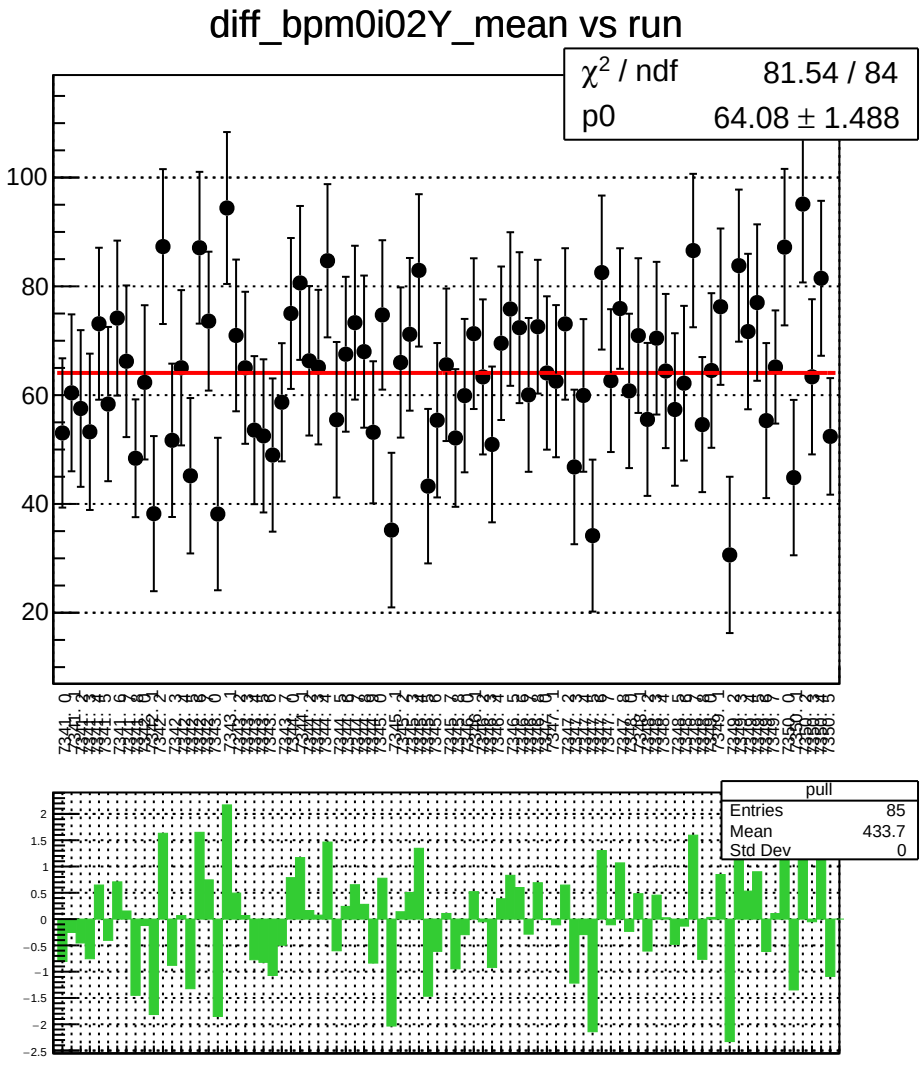

pull1D
Entries 85
Mean −0.005027
Std Dev 0.9067

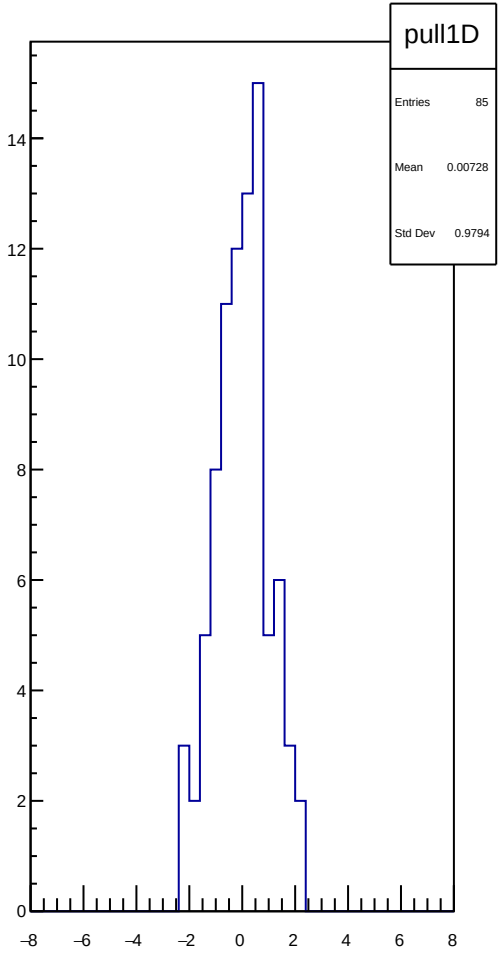

diff_bpm2i02Y_rms vs run
χ^2 / ndf 300.6 / 84
p0 928.8 ± 0.7306
970
960
950
940
930
920
910
900
890

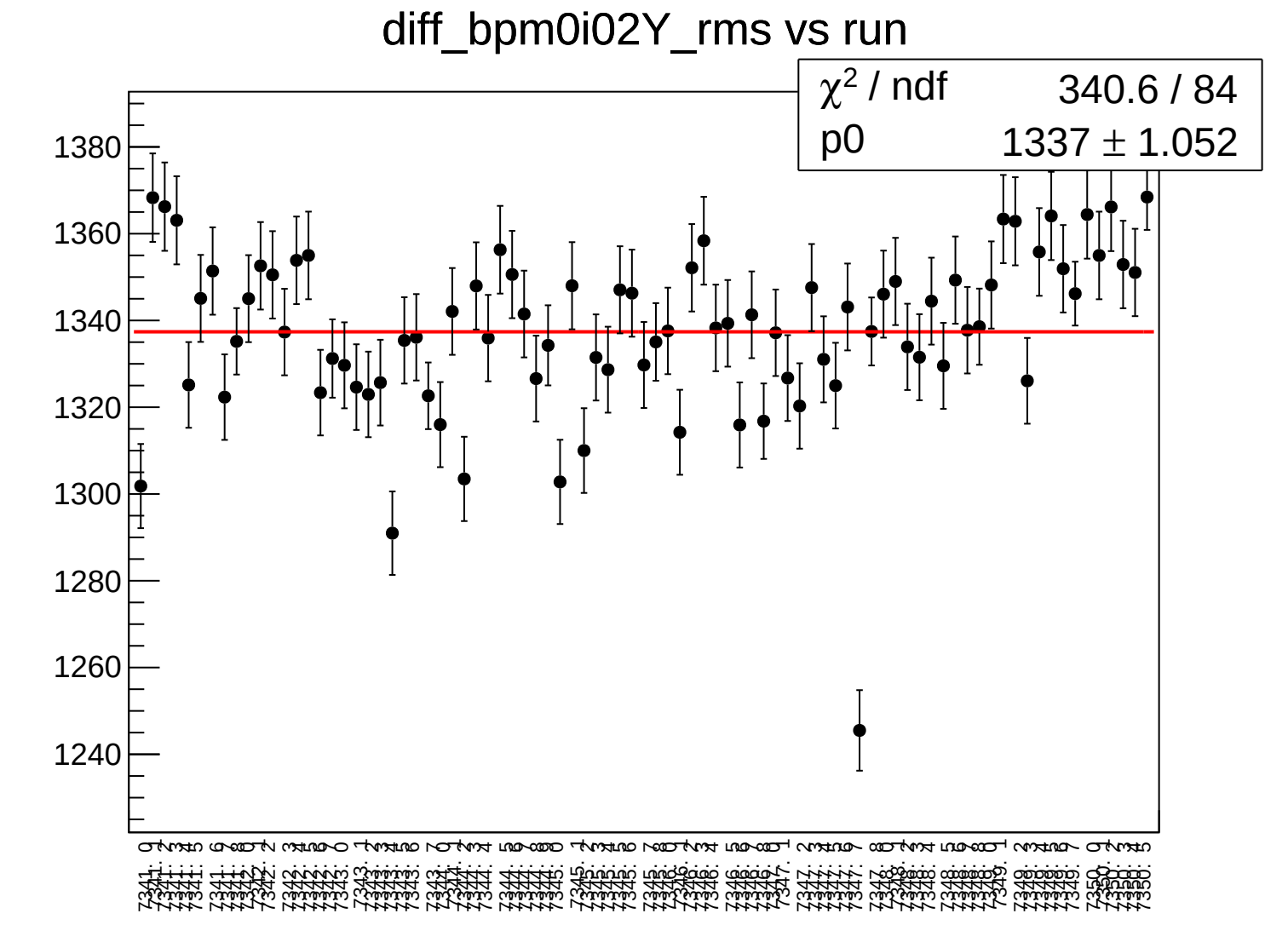

diff_bpm0i02X_mean vs run
χ^2 / ndf 73.59 / 84
p0 2.423 ± 2.207
pull
Entries 85
Mean 794.1
Std Dev 0

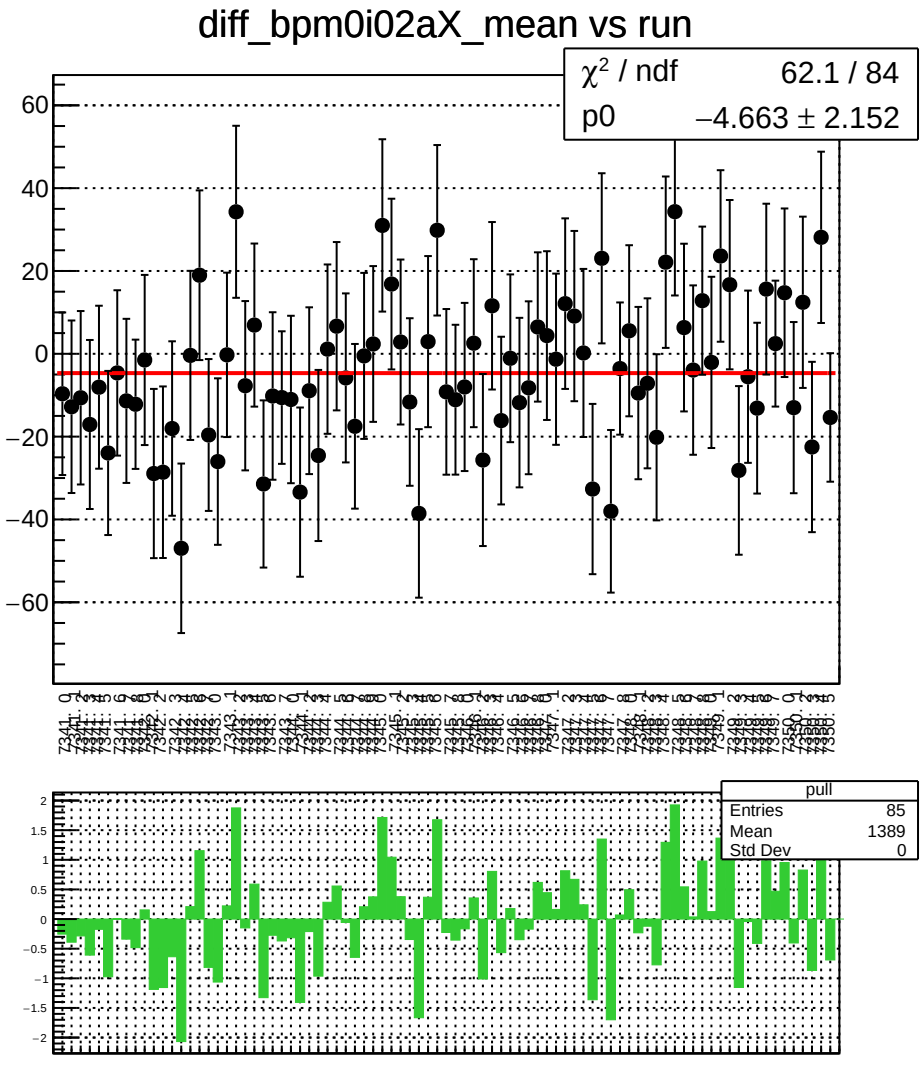

pull1D
Entries 85
Mean 0.00792
Std Dev 0.9304

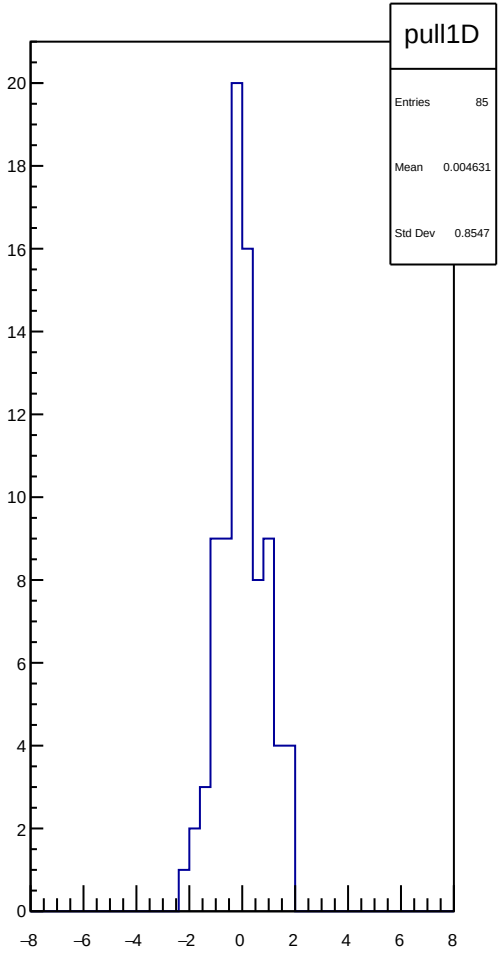

diff_bpm0i02X_rms vs run
χ² / ndf 901.8 / 84
p0 1984 ± 1.561
2100
2050
2000
1950
1900
1850

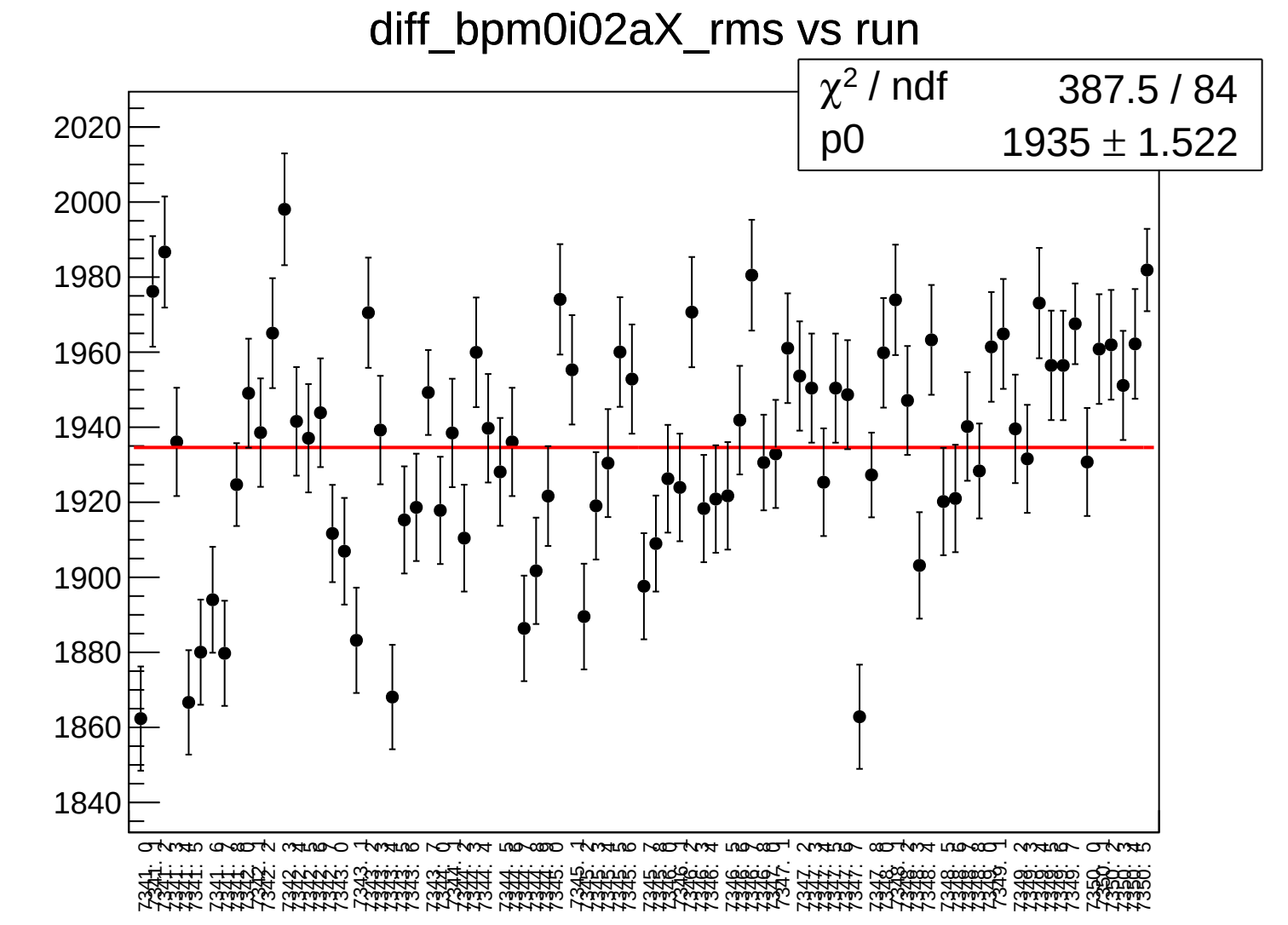

diff_bpm0i02Y_mean vs run
χ² / ndf 81.54 / 84
p0 64.08 ± 1.488
pull
Entries 85
Mean 433.7
Std Dev 0

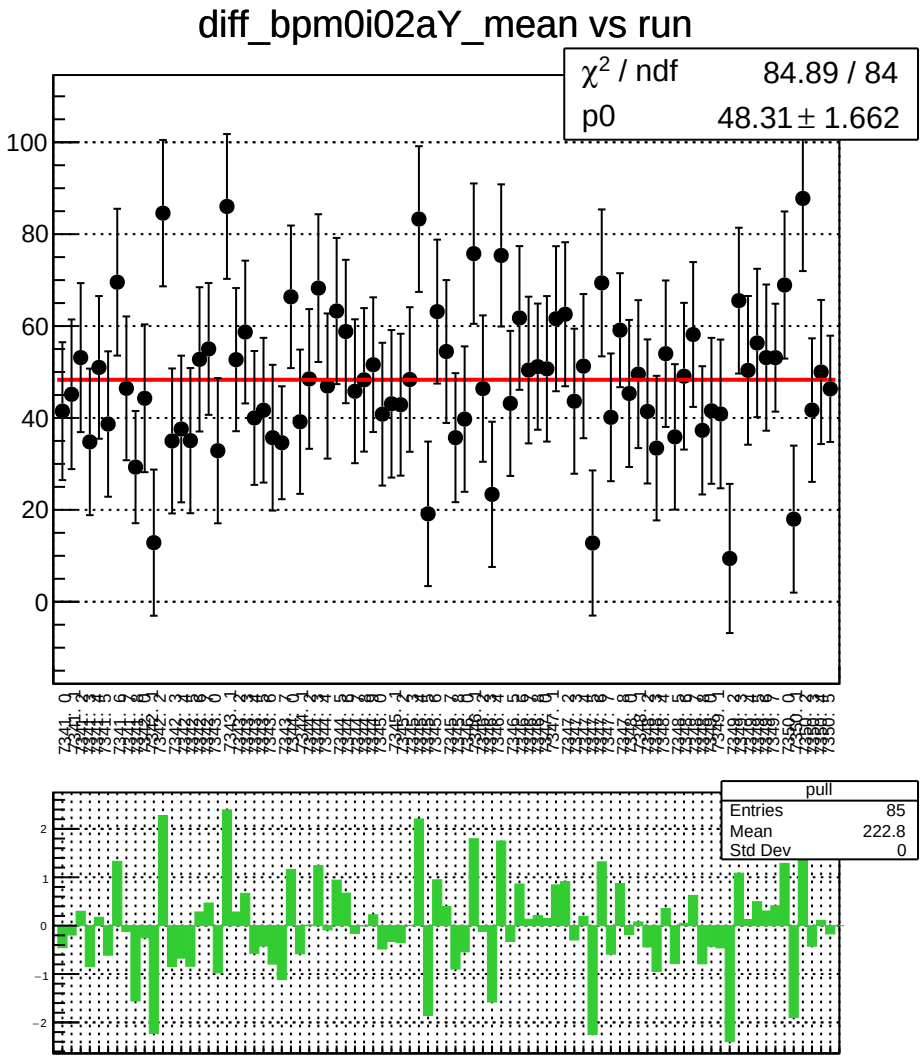

pull1D
Entries 85
Mean 0.00728
Std Dev 0.9794

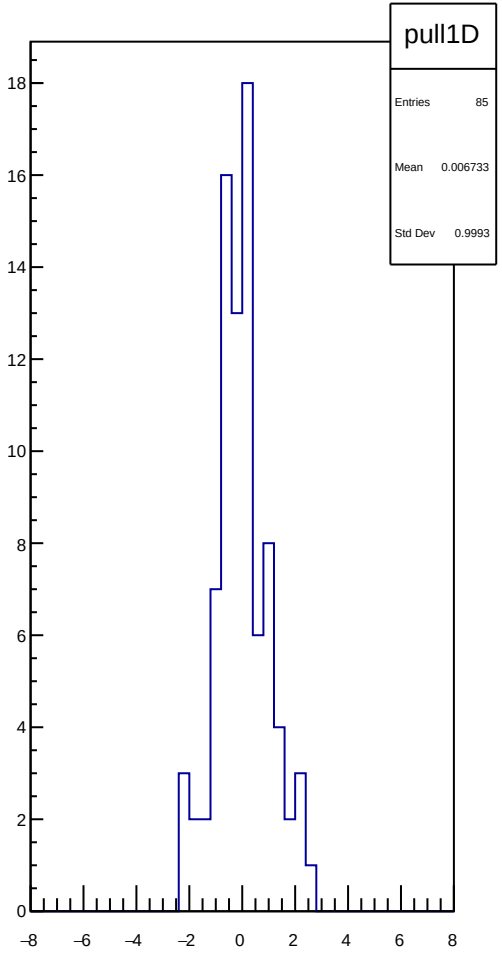

diff_bpm0i02Y_rms vs run
χ² / ndf 340.6 / 84
p0 1337 ± 1.052
1380
1360
1340
1320
1300
1280
1260
1240

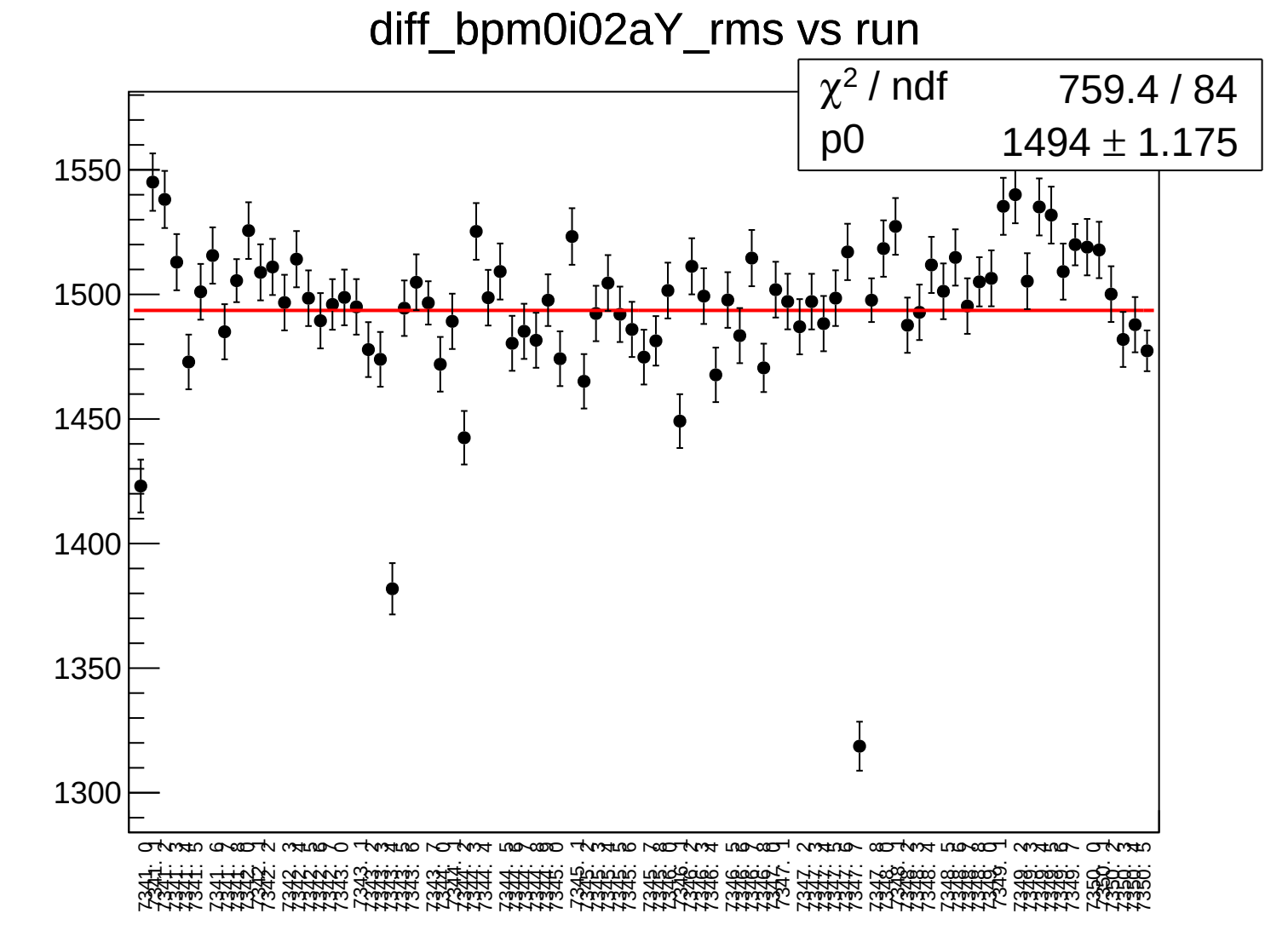

diff_bpm0i02aX_mean vs run
χ² / ndf 62.1 / 84
p0 −4.663 ± 2.152
pull
Entries 85
Mean 1389
Std Dev 0

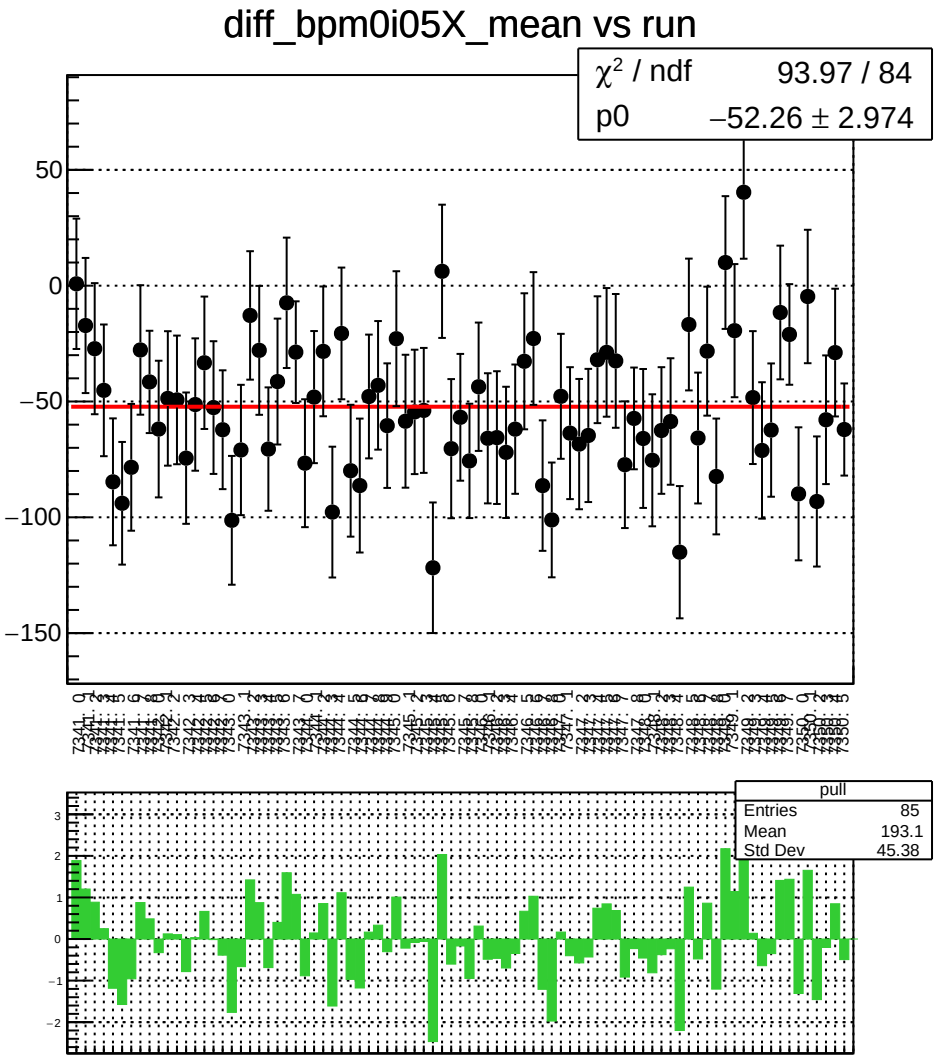

pull1D
Entries 85
Mean 0.004631
Std Dev 0.8547

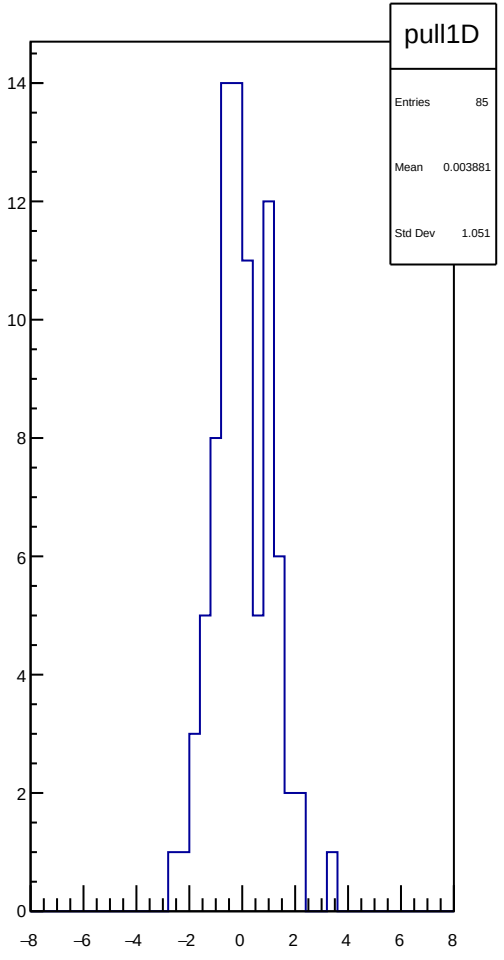

diff_bpm0i02aX_rms vs run
χ² / ndf 387.5 / 84
p0 1935 ± 1.522
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840

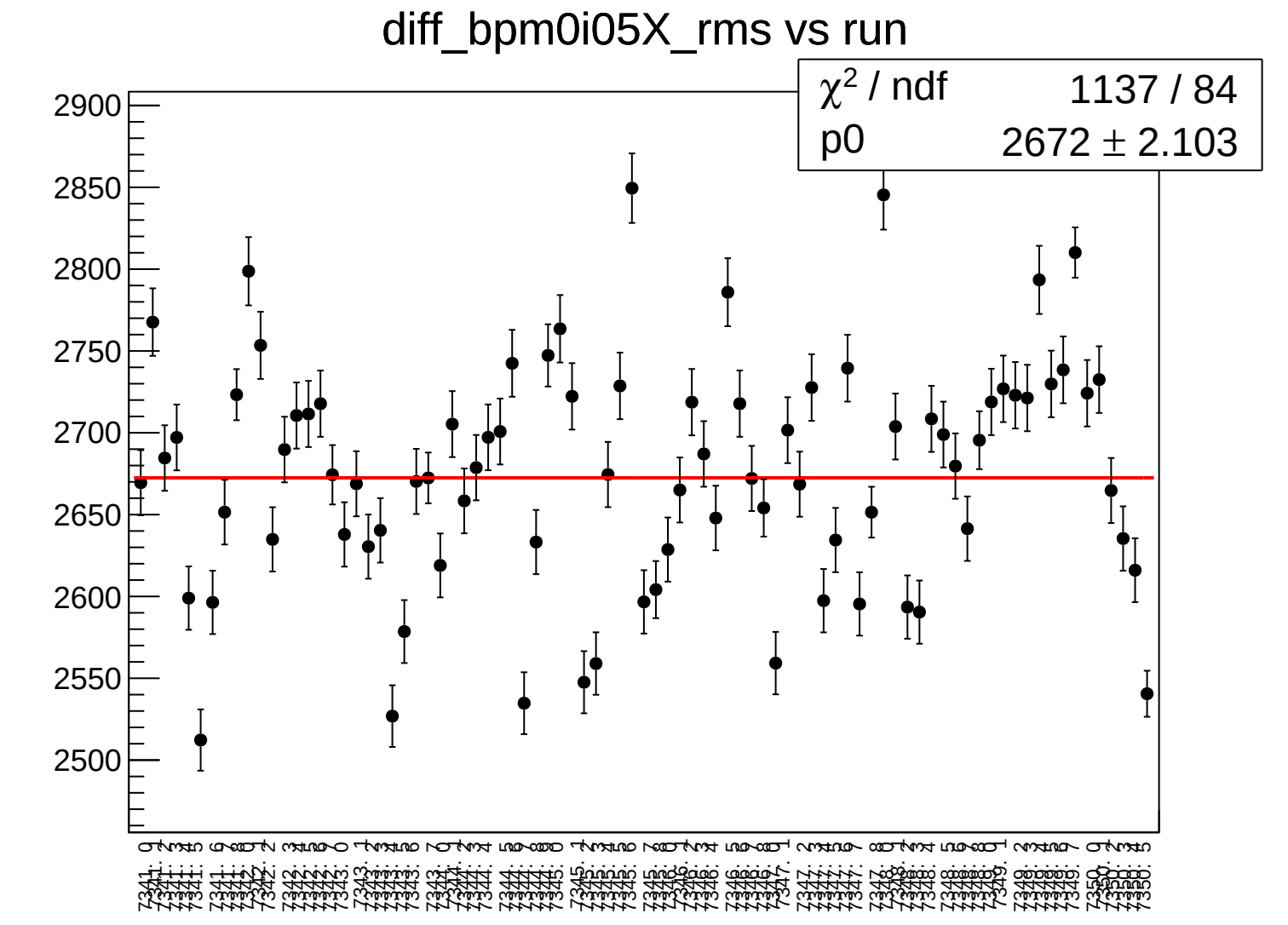

diff_bpm0i02aY_mean vs run
χ^2 / ndf 84.89 / 84
p0 48.31 ± 1.662
pull
Entries 85
Mean 222.8
Std Dev 0

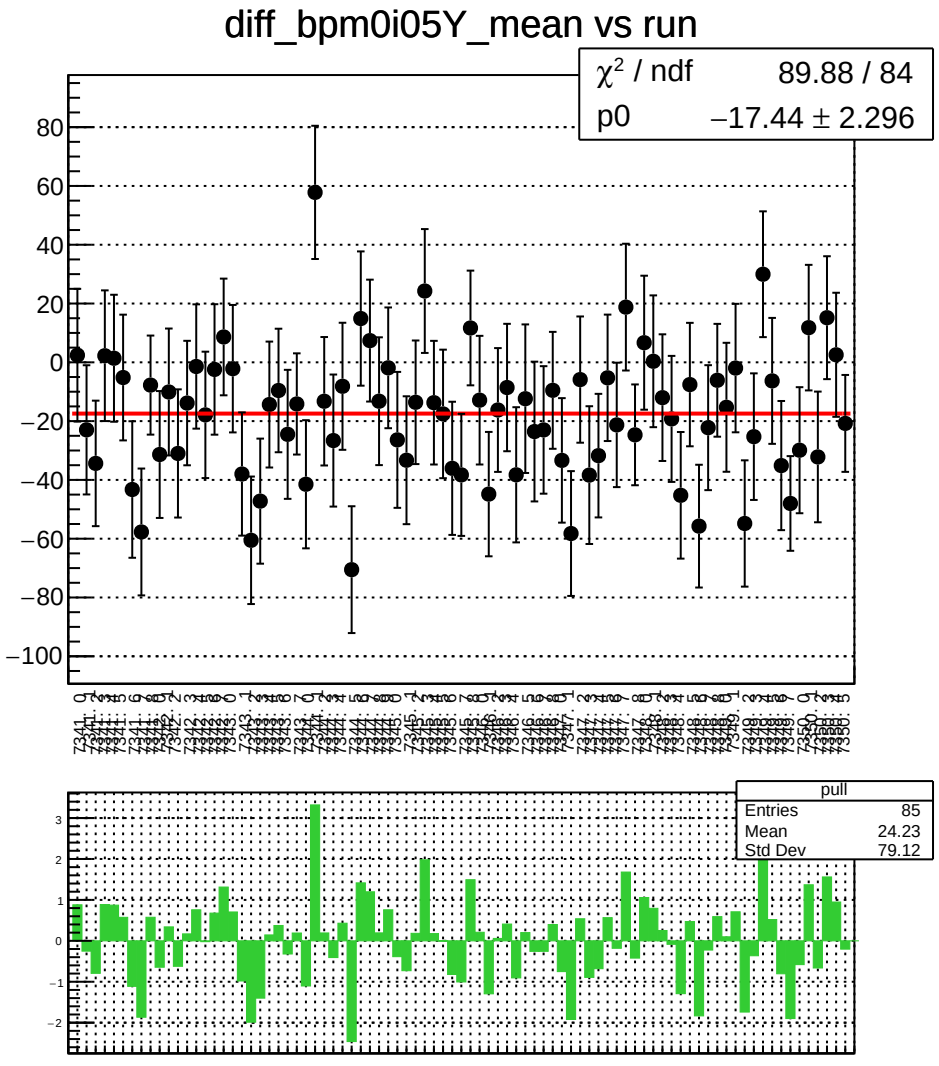

pull1D
Entries 85
Mean 0.006733
Std Dev 0.9993

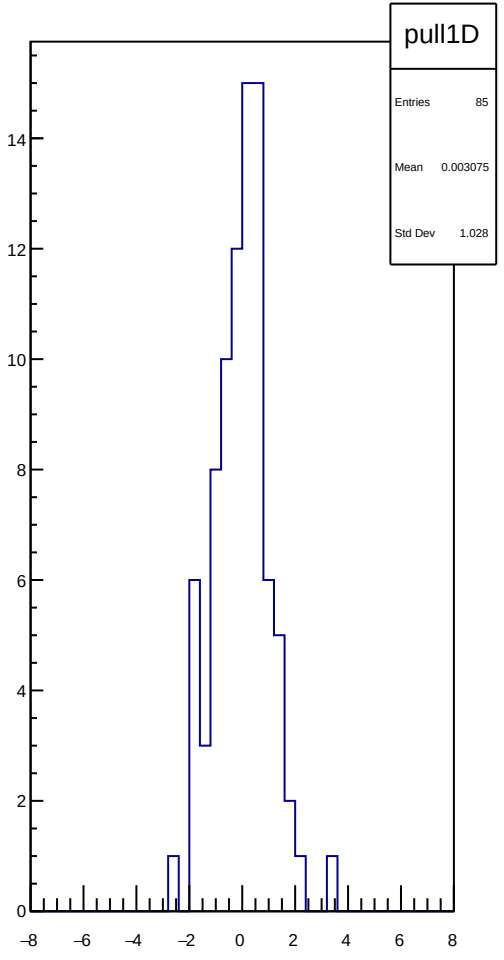

diff_bpm0i02aY_rms vs run
χ² / ndf 759.4 / 84
p0 1494 ± 1.175
1550
1500
1450
1400
1350
1300

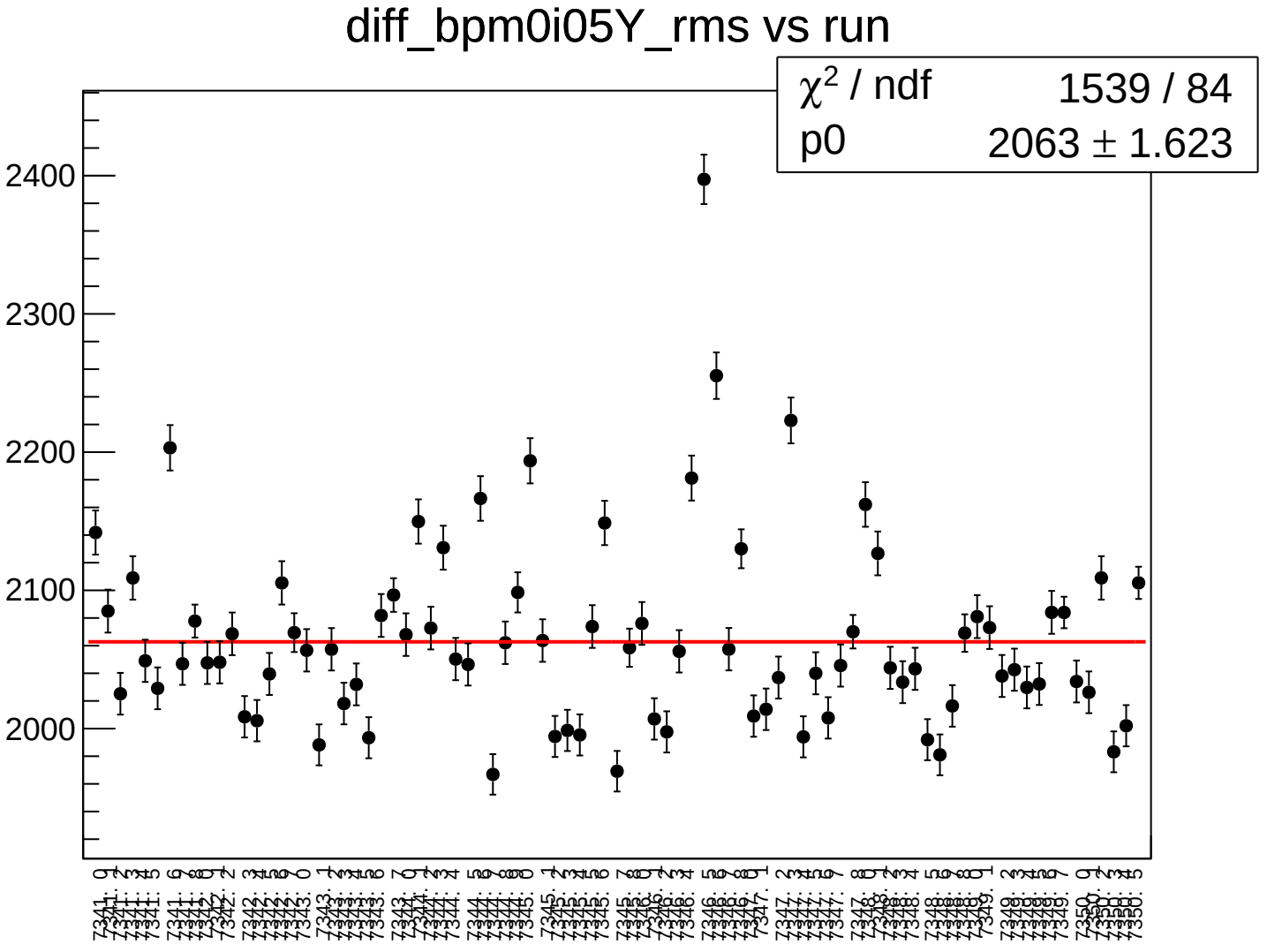

diff_bpm0i05X_mean vs run
χ² / ndf 93.97 / 84
p0 −52.26 ± 2.974
50
0
−50
−100
−150
pull
Entries 85
Mean 193.1
Std Dev 45.38
3
2
1
0
−1
−2

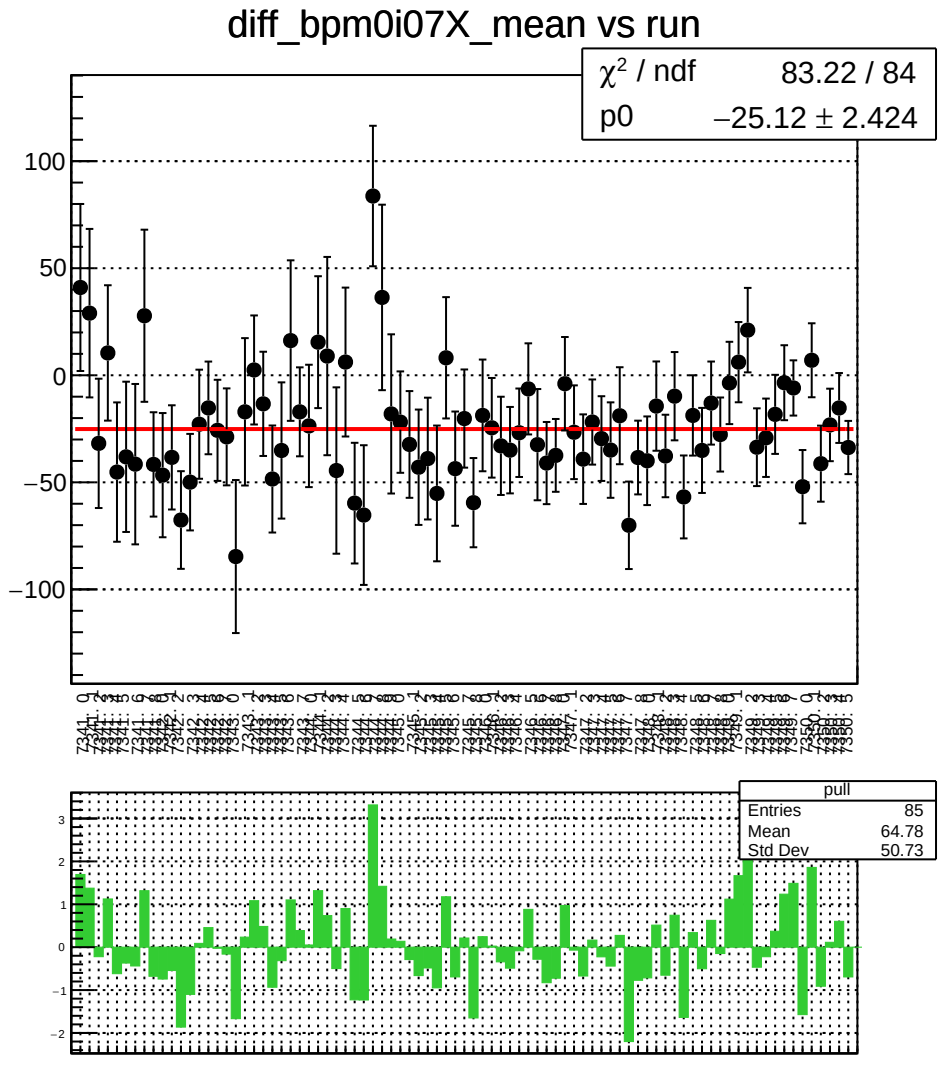

pull1D
Entries 85
Mean 0.003881
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

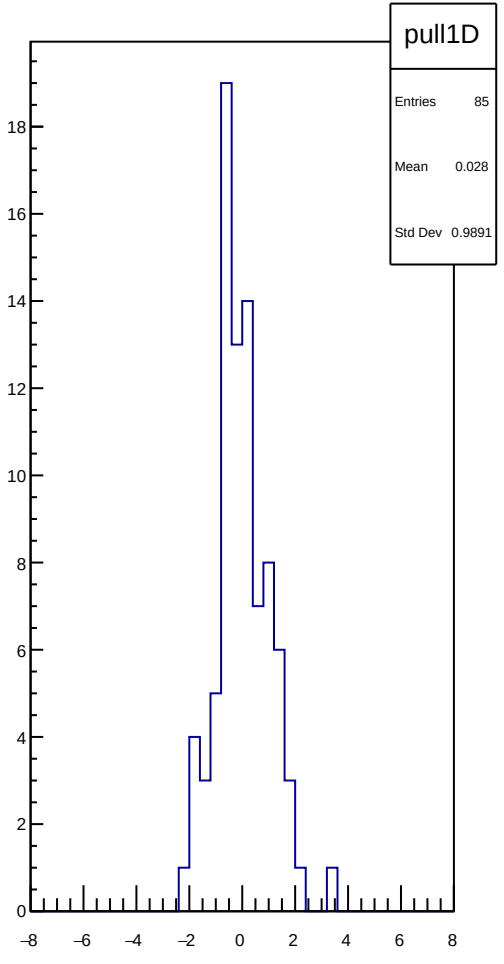

diff_bpm0i05X_rms vs run
χ² / ndf 1137 / 84
p0 2672 ± 2.103
2900
2850
2800
2750
2700
2650
2600
2550
2500

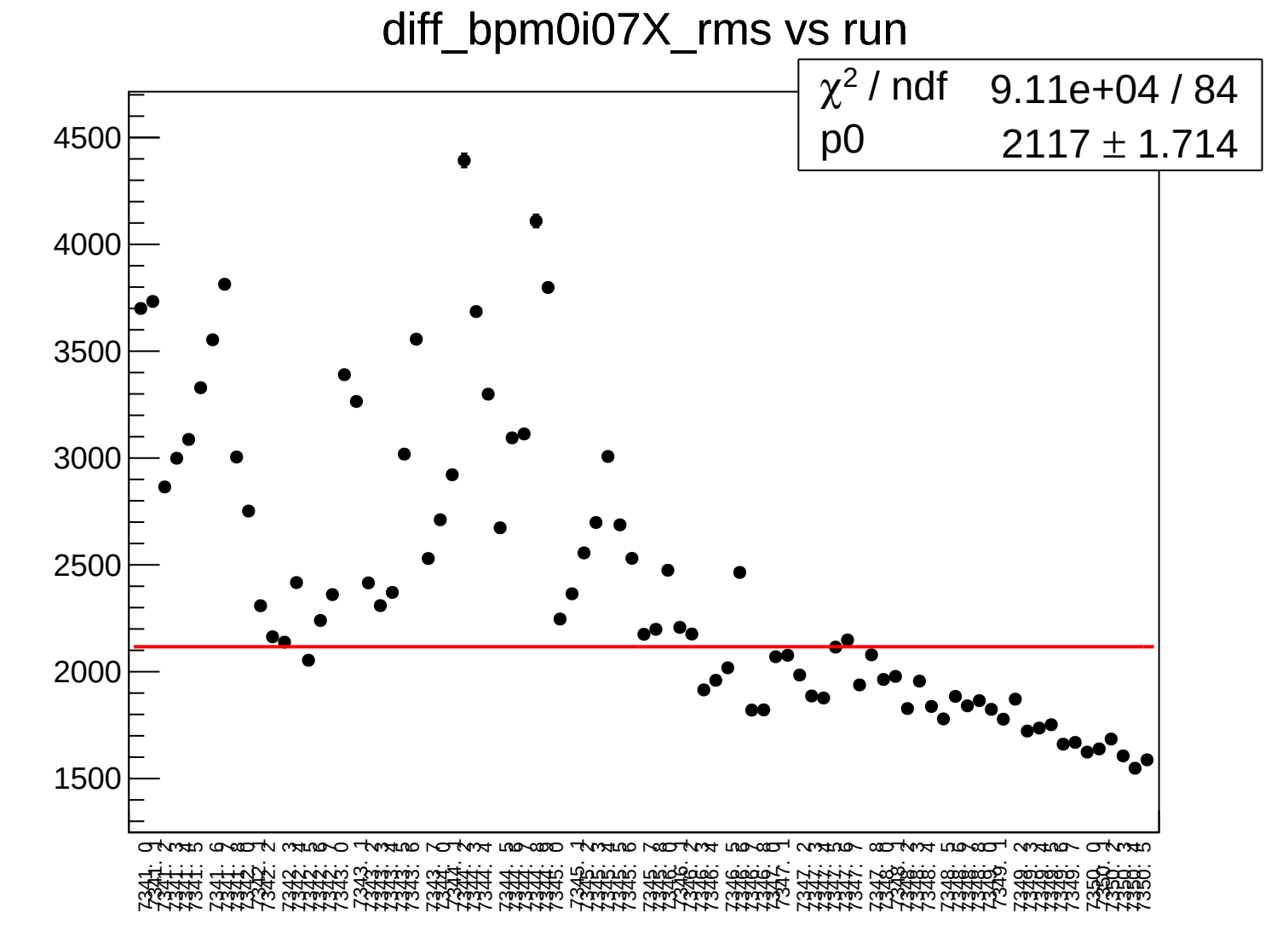

diff_bpm0i05Y_mean vs run
χ² / ndf 89.88 / 84
p0 −17.44 ± 2.296
pull
Entries 85
Mean 24.23
Std Dev 79.12

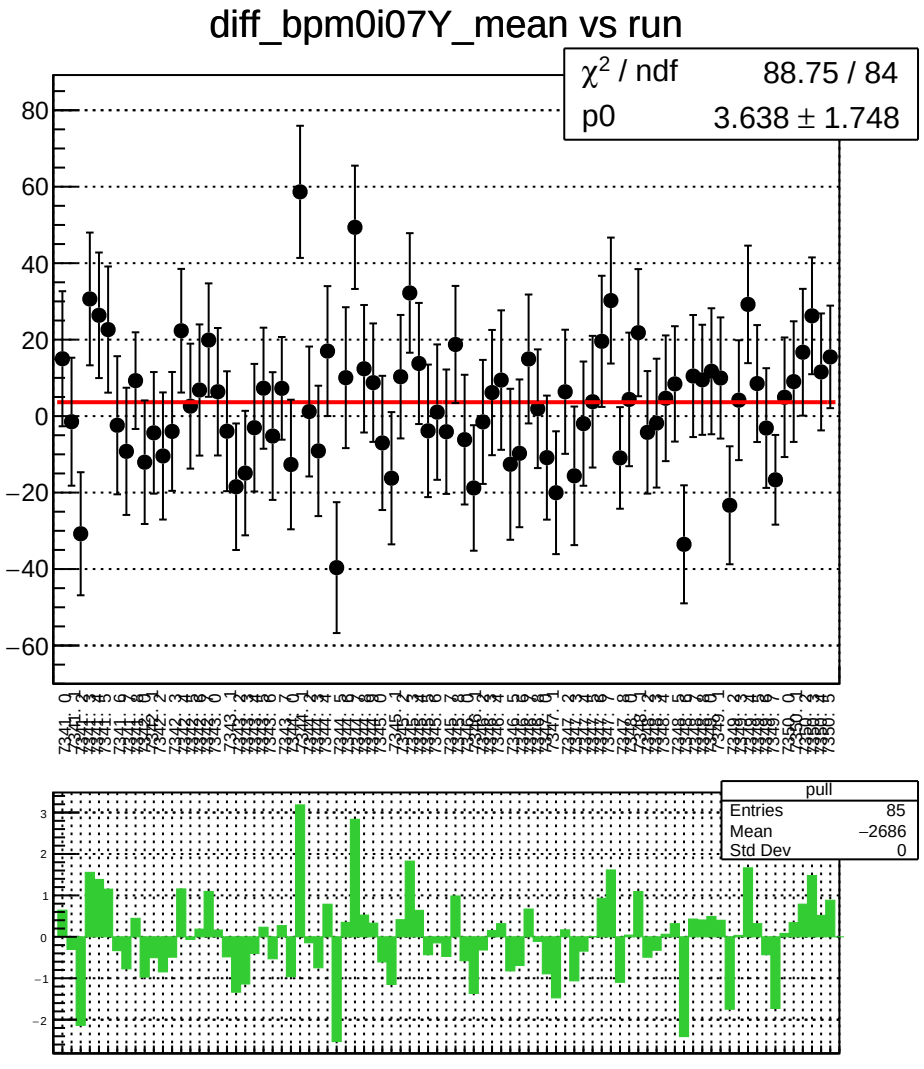

pull1D
Entries 85
Mean 0.003075
Std Dev 1.028

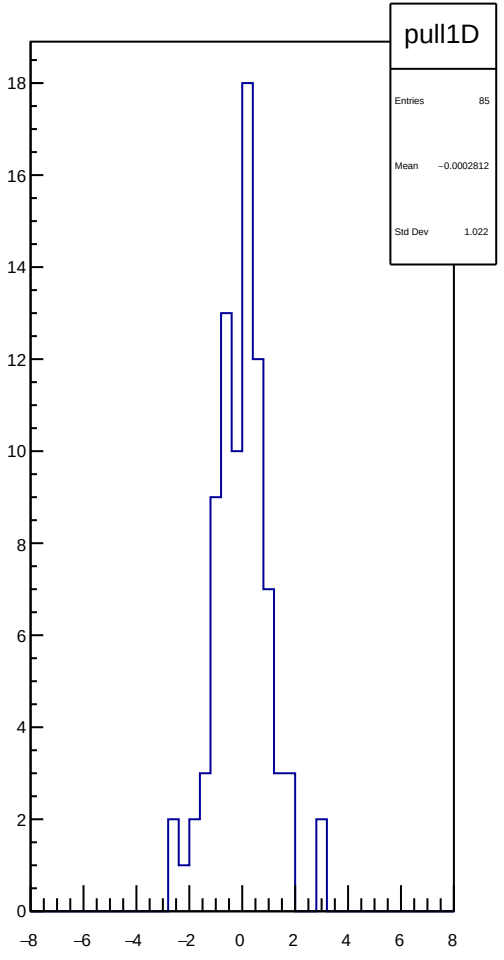

diff_bpm0i05Y_rms vs run
χ² / ndf 1539 / 84
p0 2063 ± 1.623
2400
2300
2200
2100
2000

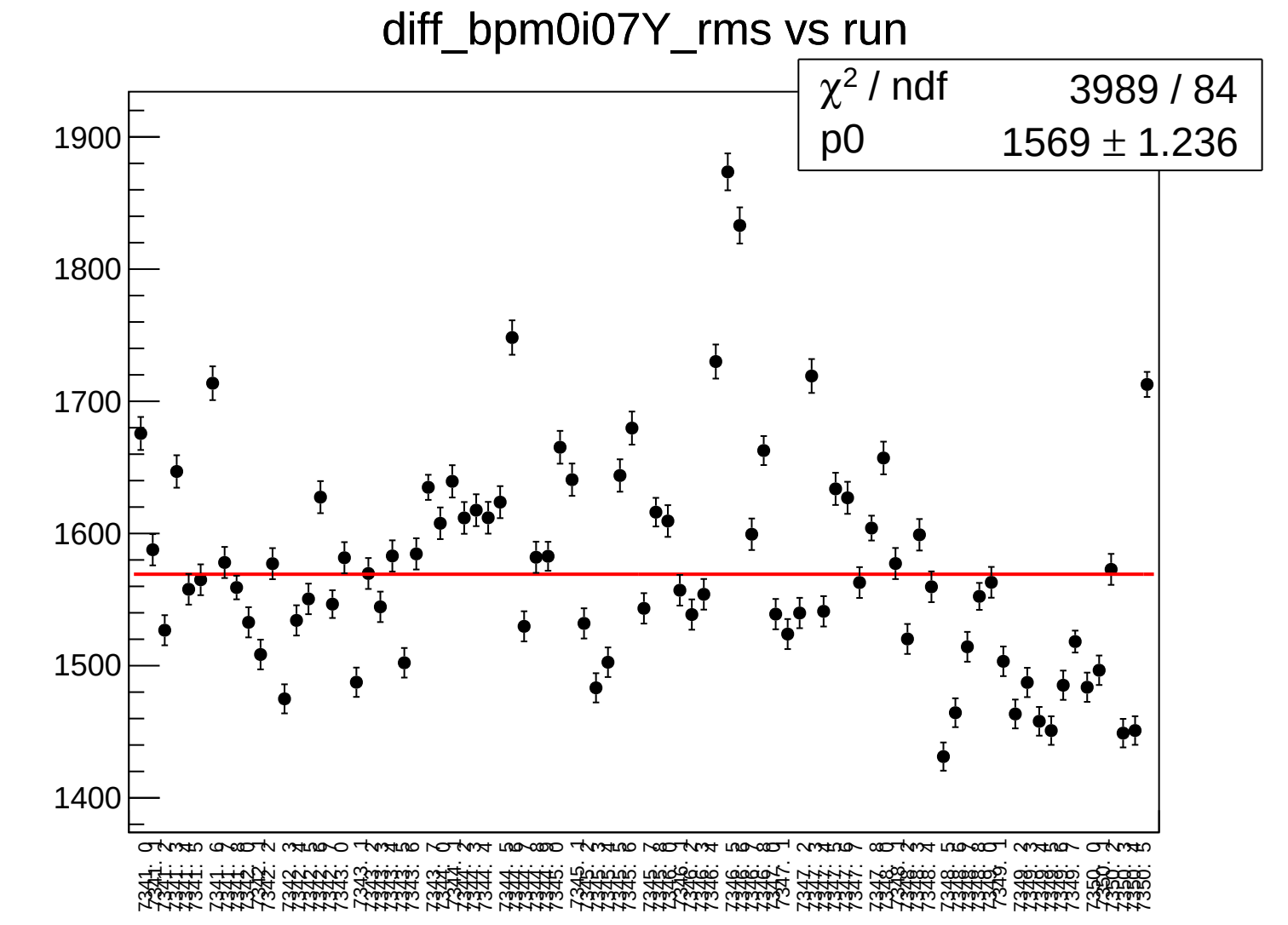

diff_bpm0i07X_mean vs run
χ² / ndf 83.22 / 84
p0 −25.12 ± 2.424
pull
Entries 85
Mean 64.78
Std Dev 50.73

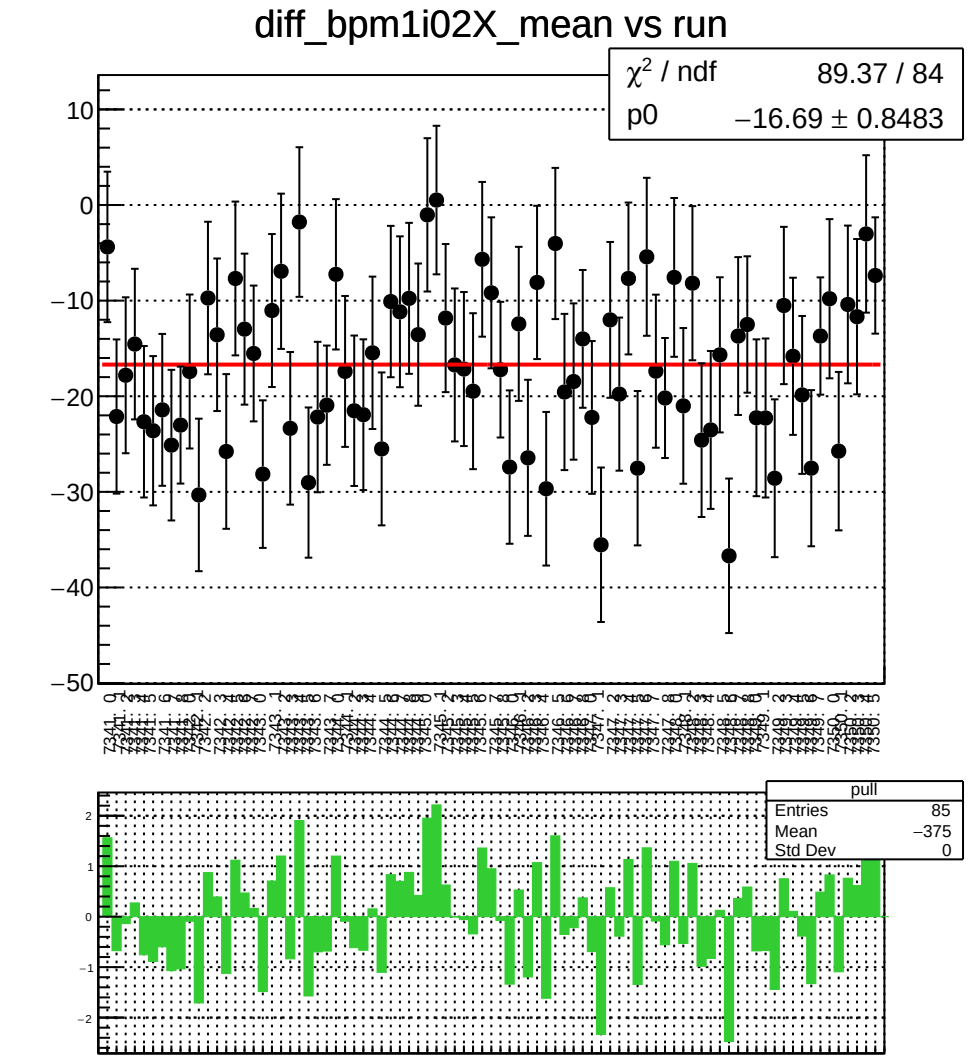

pull1D
Entries 85
Mean 0.028
Std Dev 0.9891

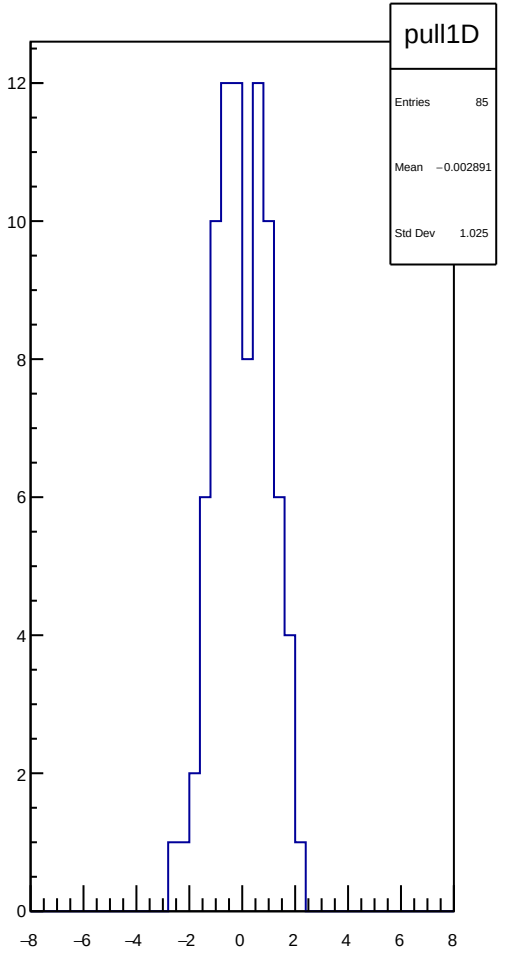

diff_bpm0i07X_rms vs run
χ² / ndf 9.11e+04 / 84
p0 2117 ± 1.714
4500
4000
3500
3000
2500
2000
1500

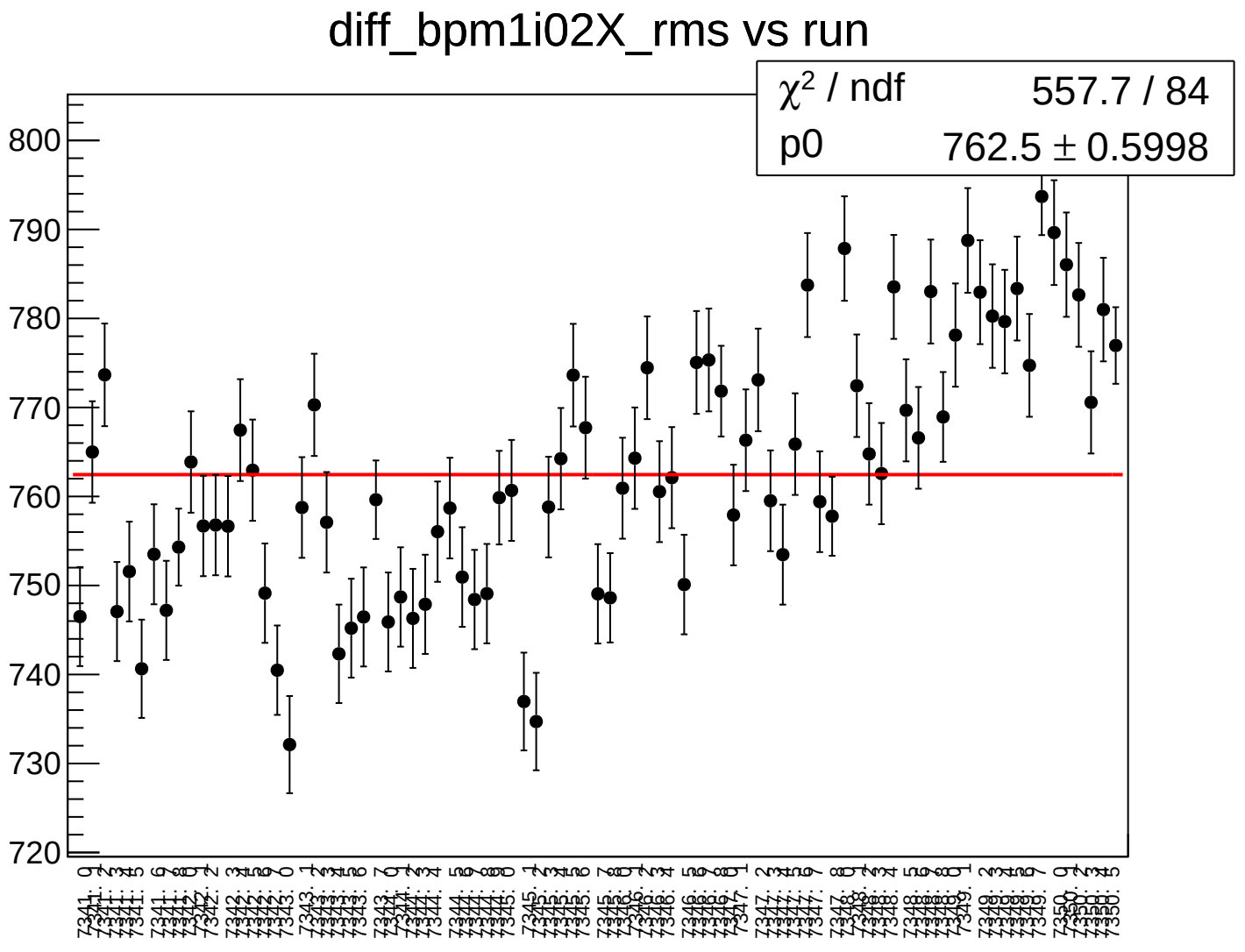

diff_bpm0i07Y_mean vs run
χ² / ndf 88.75 / 84
p0 3.638 ± 1.748
pull
Entries 85
Mean −2686
Std Dev 0

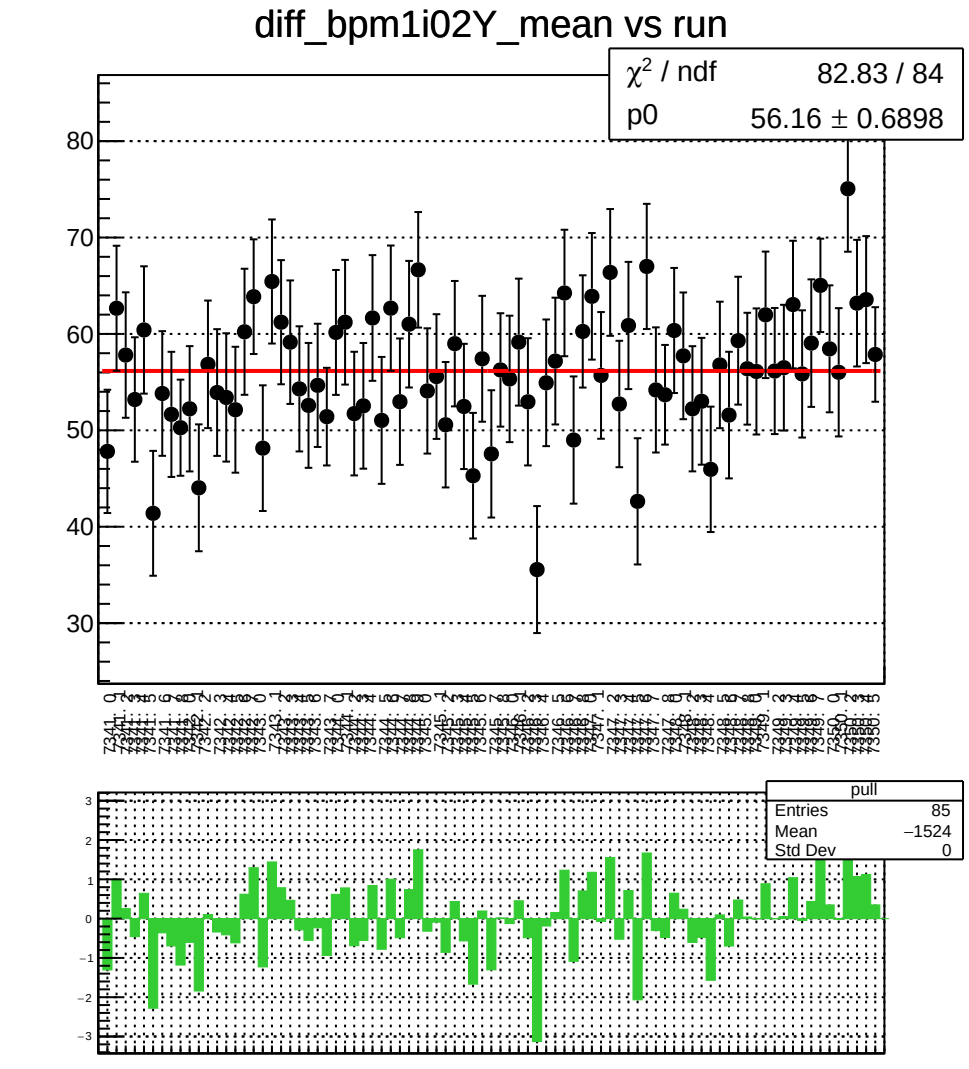

pull1D
Entries 85
Mean −0.0002812
Std Dev 1.022

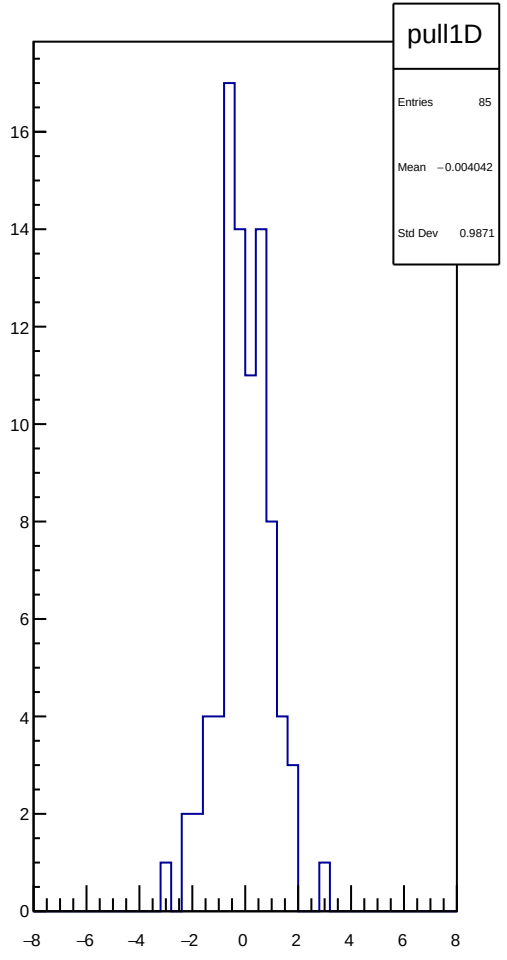

diff_bpm0i07Y_rms vs run
χ² / ndf 3989 / 84
p0 1569 ± 1.236
1900
1800
1700
1600
1500
1400

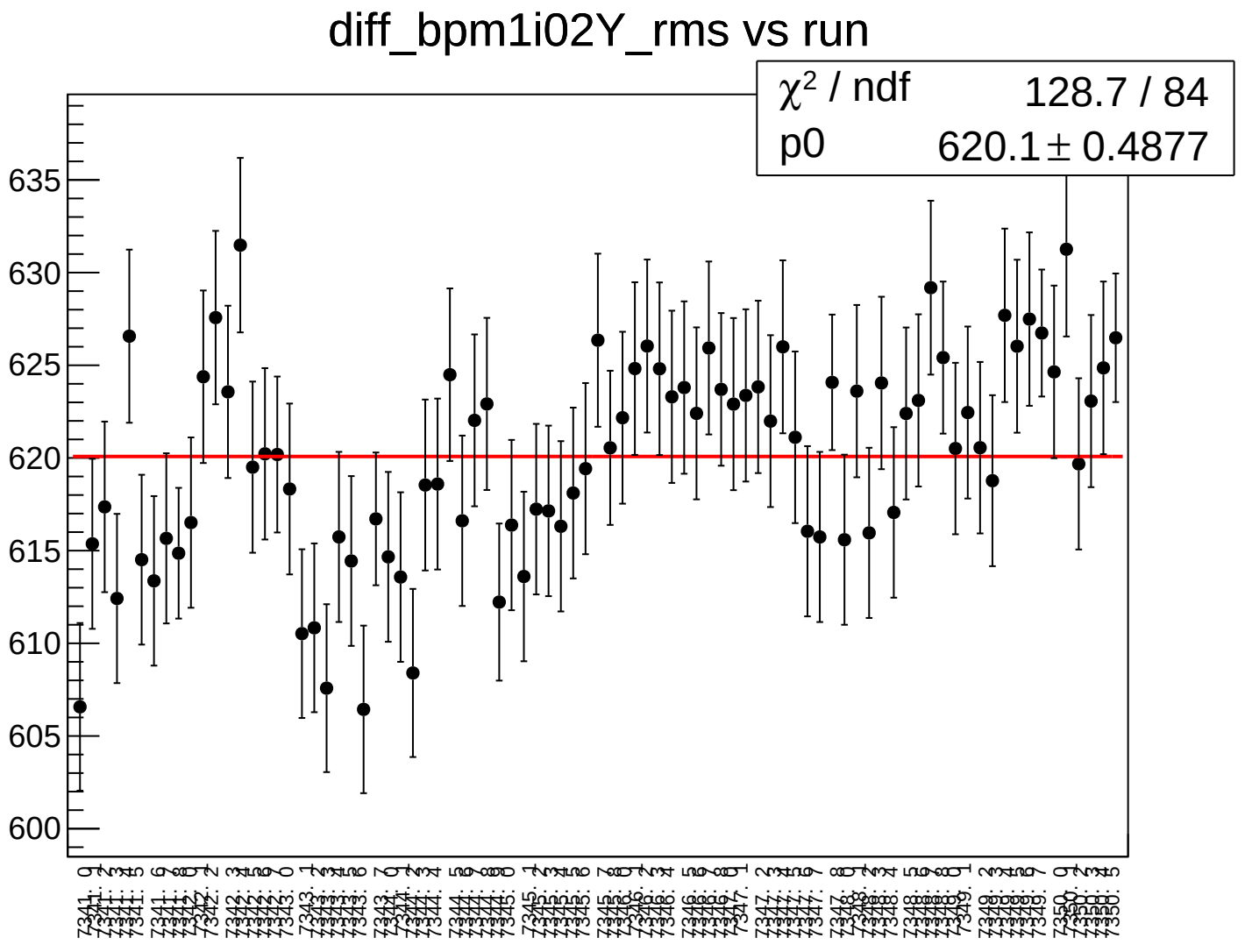

diff_bpm1i02X_mean vs run
χ² / ndf 89.37 / 84
p0 −16.69 ± 0.8483
pull
Entries 85
Mean −375
Std Dev 0

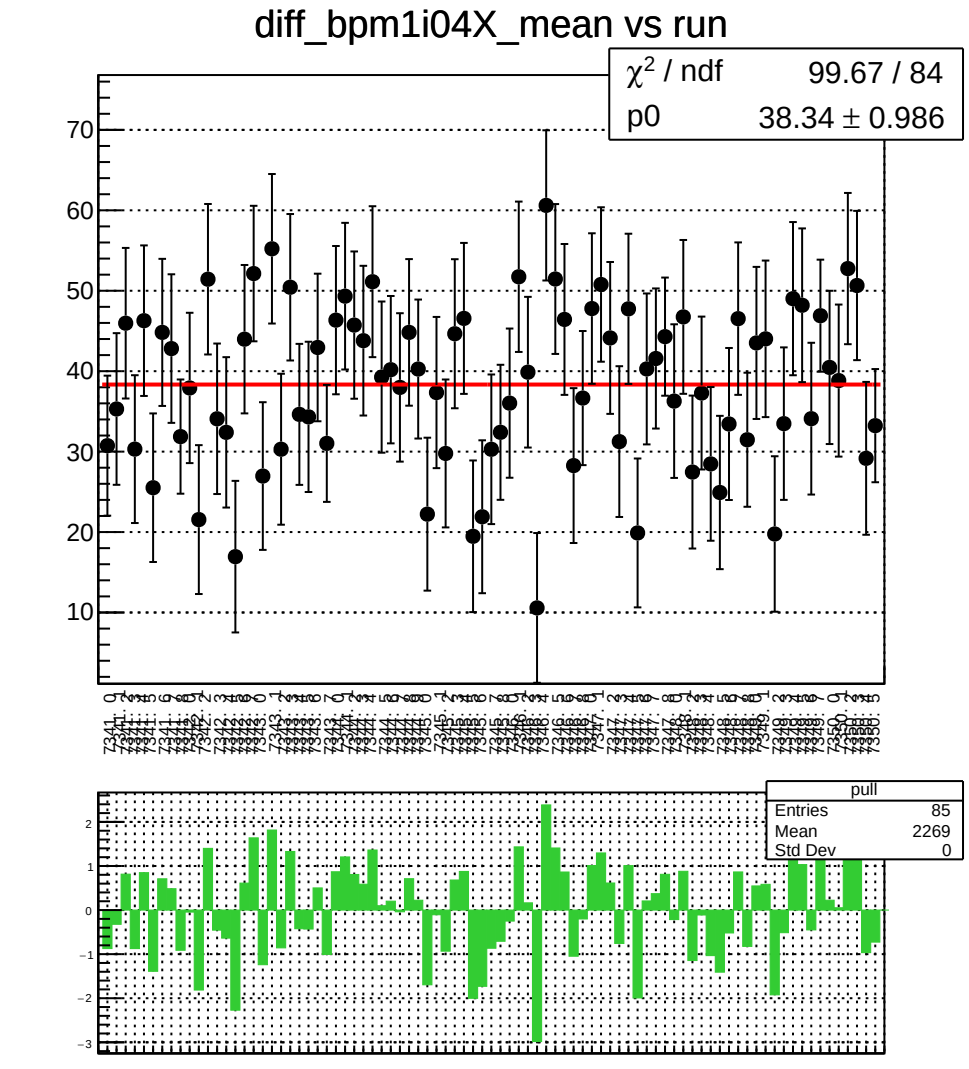

pull1D
Entries 85
Mean −0.002891
Std Dev 1.025

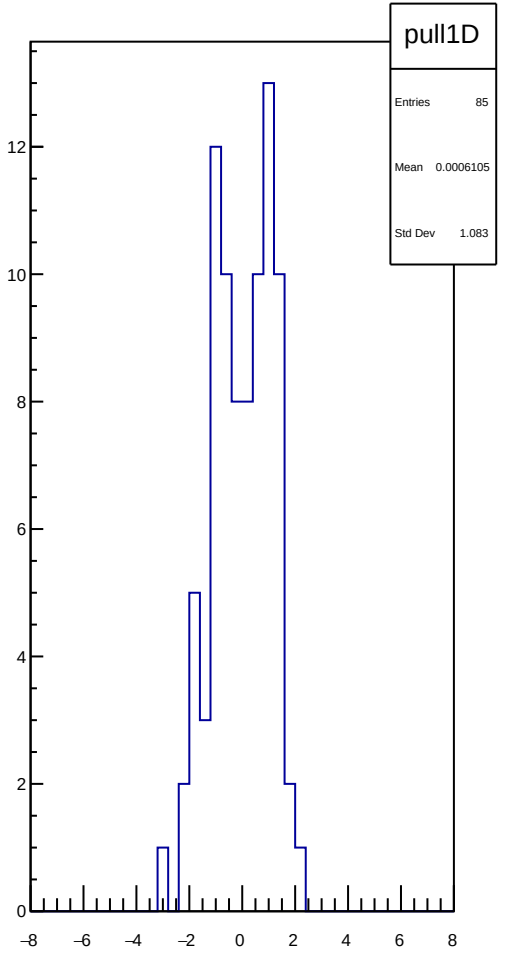

diff_bpm1i02X_rms vs run
χ² / ndf 557.7 / 84
p0 762.5 ± 0.5998
800
790
780
770
760
750
740
730
720

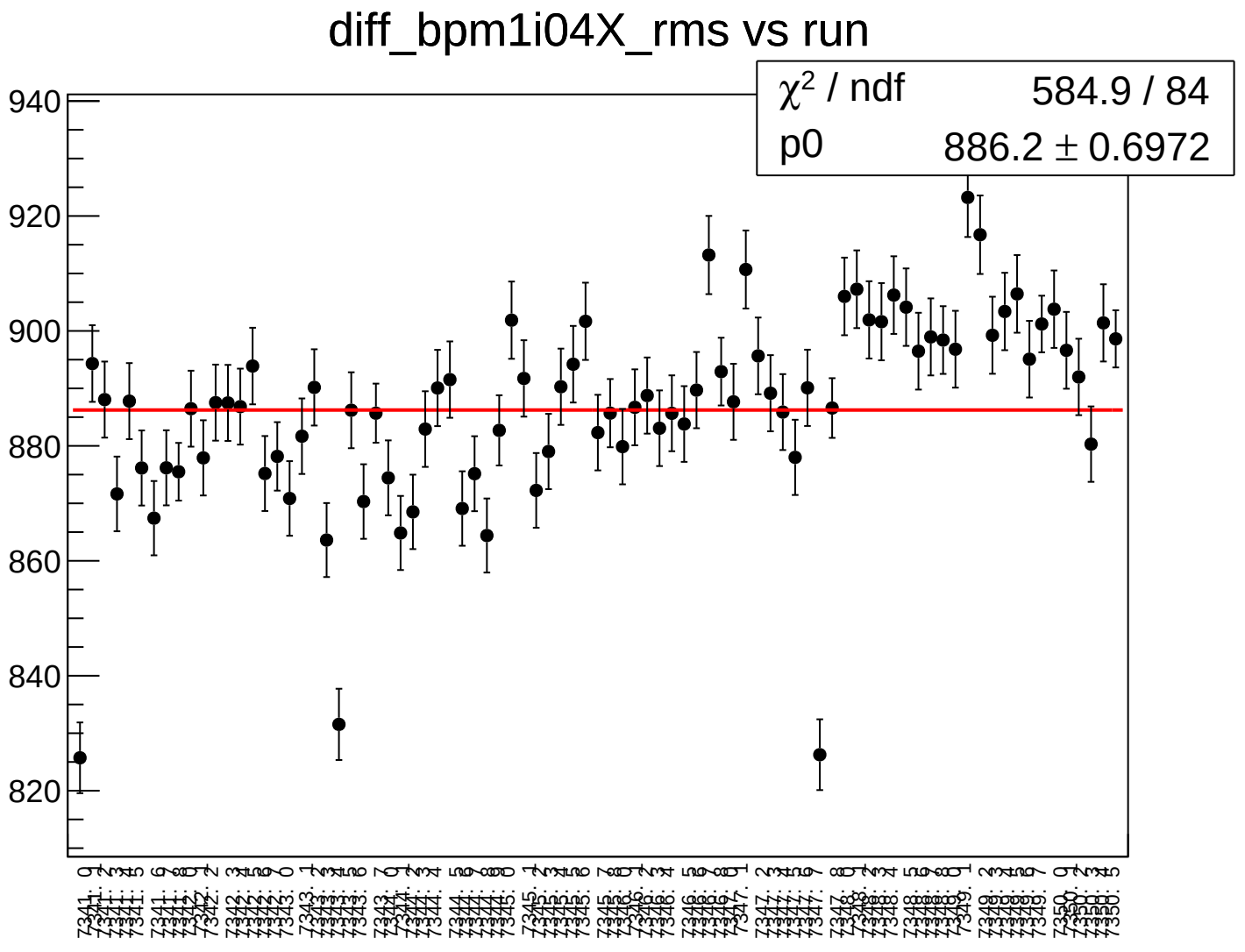

diff_bpm1i02Y_mean vs run
χ² / ndf 82.83 / 84
p0 56.16 ± 0.6898
pull
Entries 85
Mean −1524
Std Dev 0

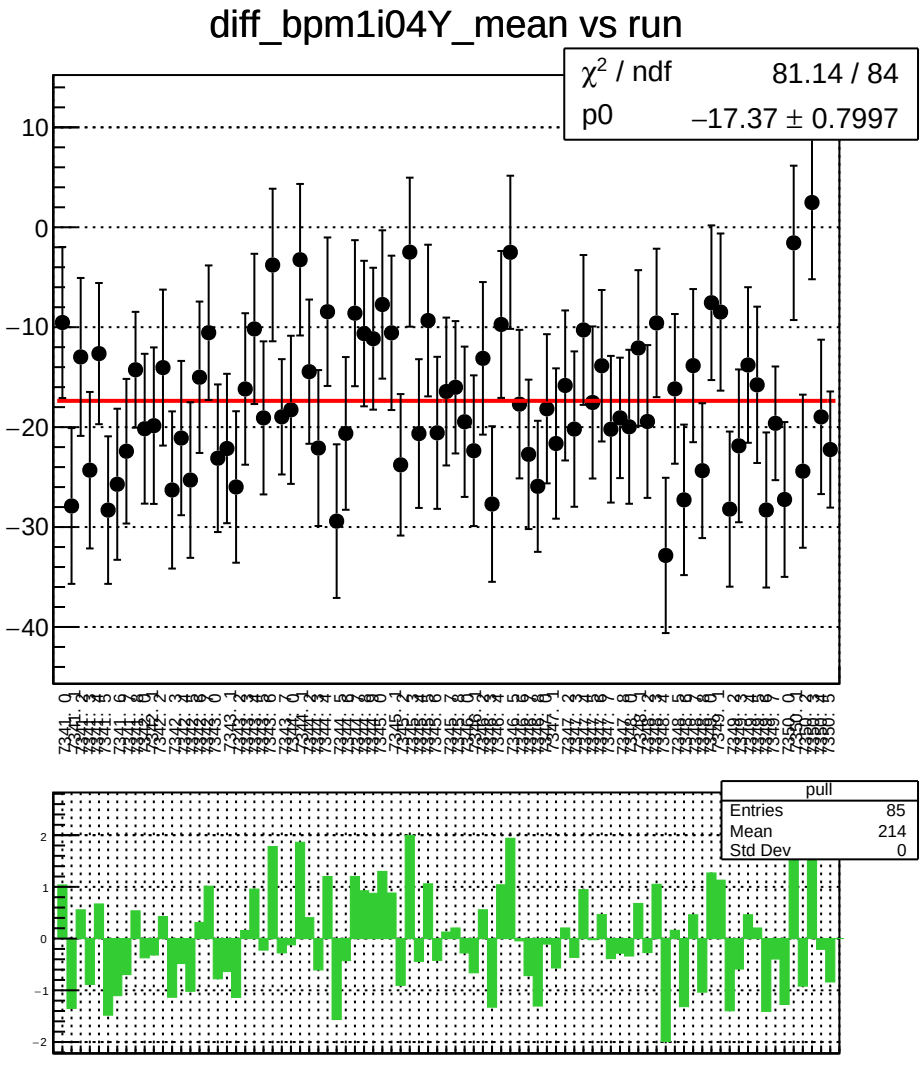

pull1D
Entries 85
Mean −0.004042
Std Dev 0.9871

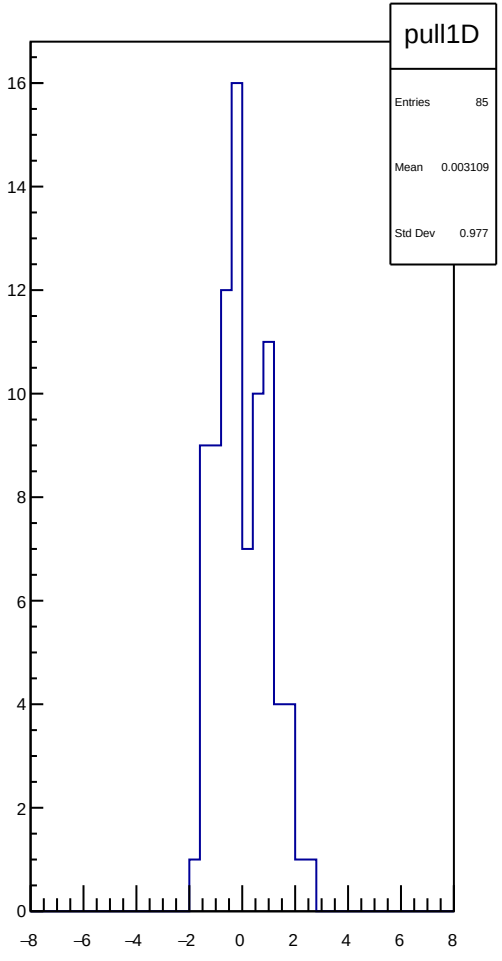

diff_bpm1i02Y_rms vs run
χ² / ndf 128.7 / 84
p0 620.1 ± 0.4877
635
630
625
620
615
610
605
600

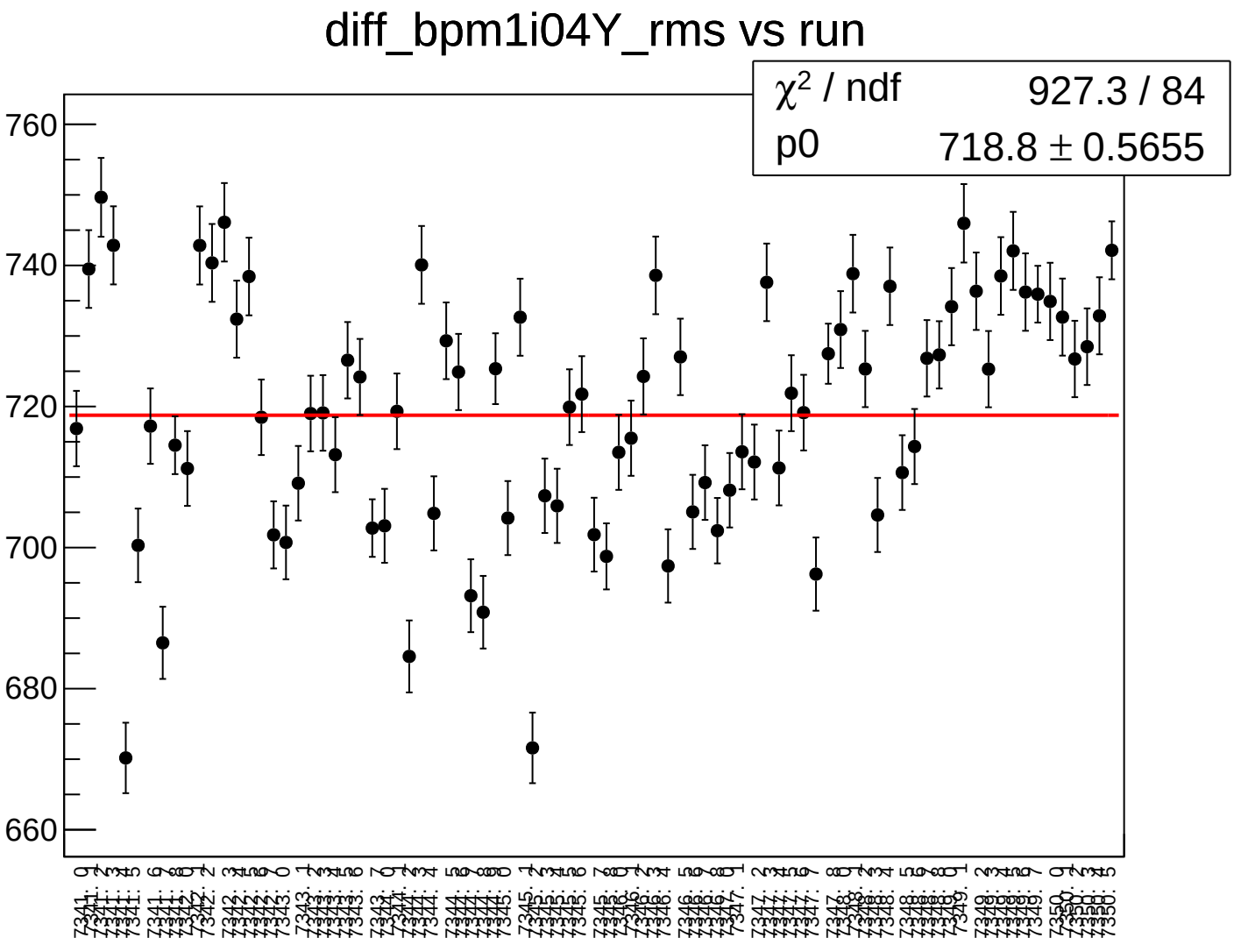

diff_bpm1i04X_mean vs run
χ² / ndf 99.67 / 84
p0 38.34 ± 0.986
pull
Entries 85
Mean 2269
Std Dev 0

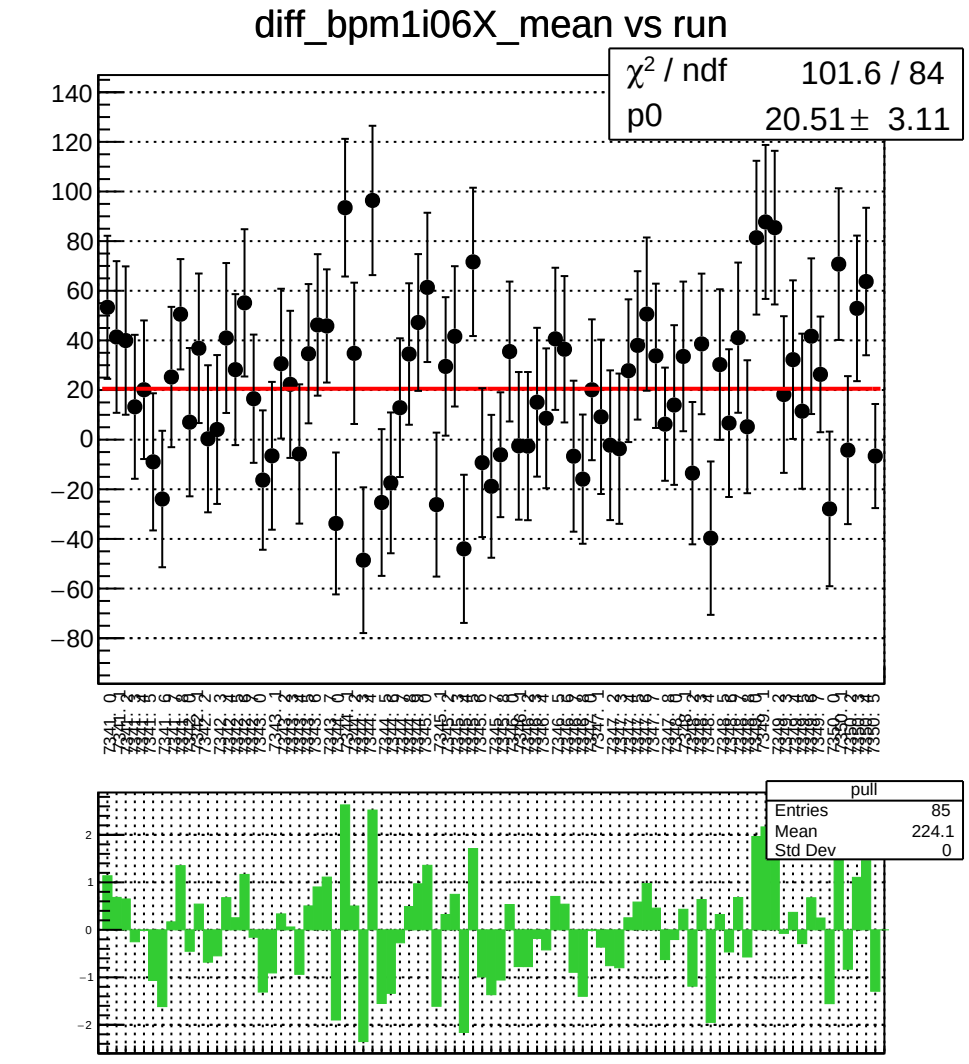

pull1D
Entries 85
Mean 0.0006105
Std Dev 1.083

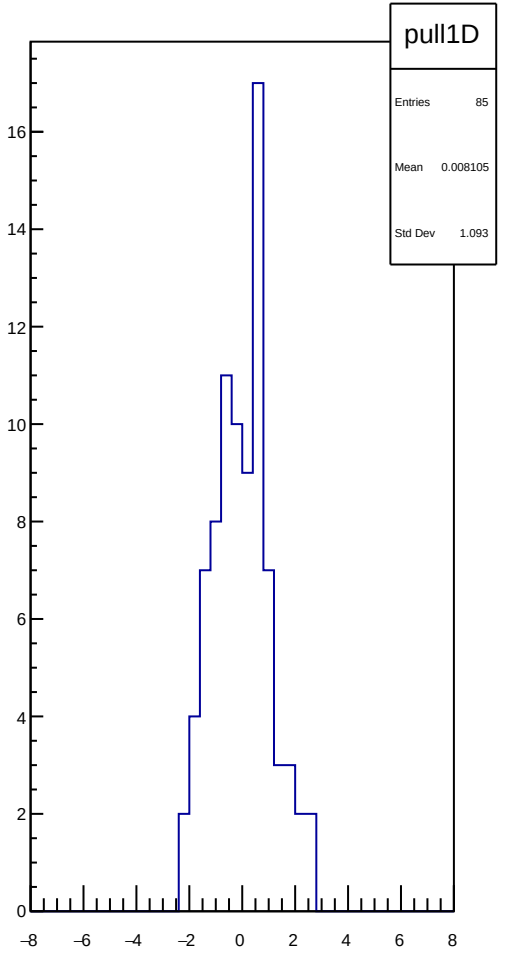

diff_bpm1i04X_rms vs run
χ² / ndf 584.9 / 84
p0 886.2 ± 0.6972
940
920
900
880
860
840
820

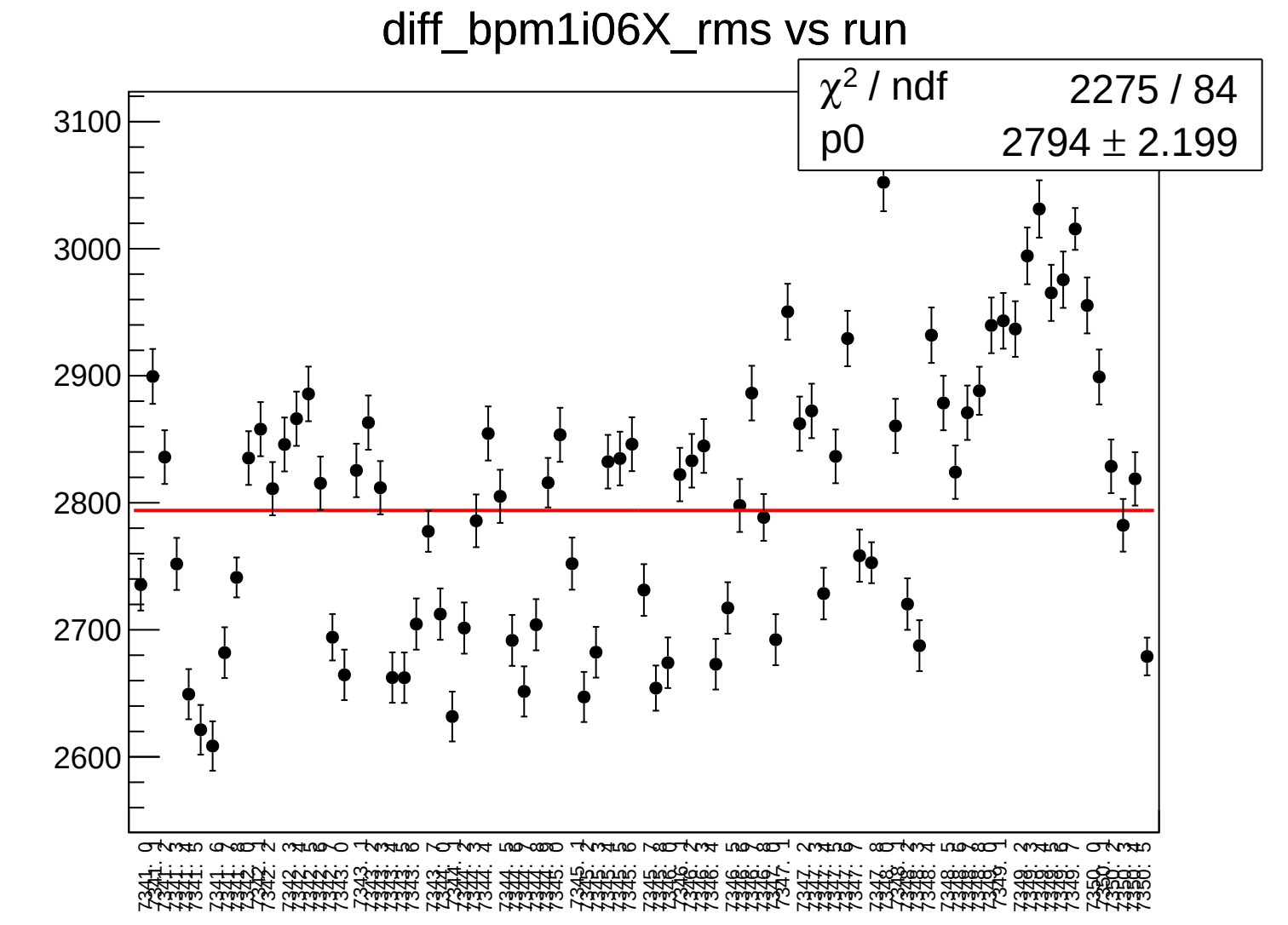

diff_bpm1i04Y_mean vs run
χ² / ndf 81.14 / 84
p0 −17.37 ± 0.7997
pull
Entries 85
Mean 214
Std Dev 0

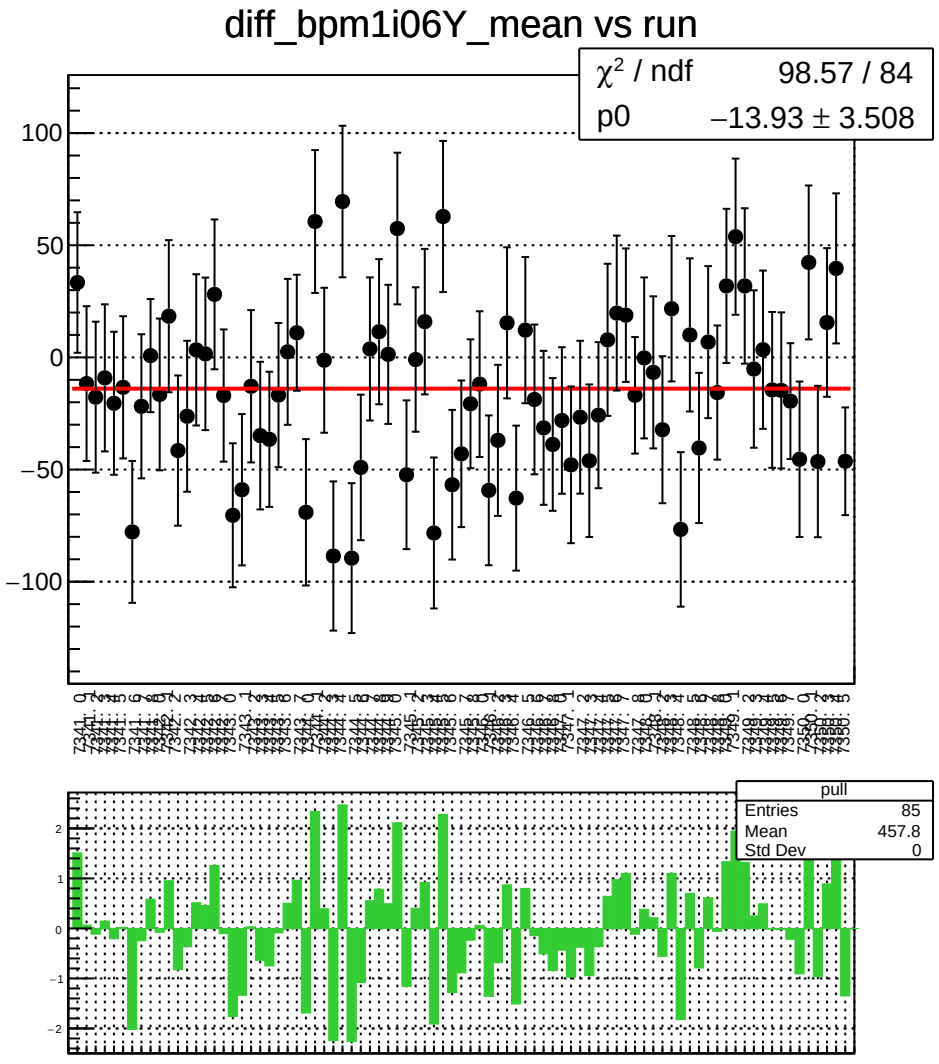

pull1D
Entries 85
Mean 0.003109
Std Dev 0.977

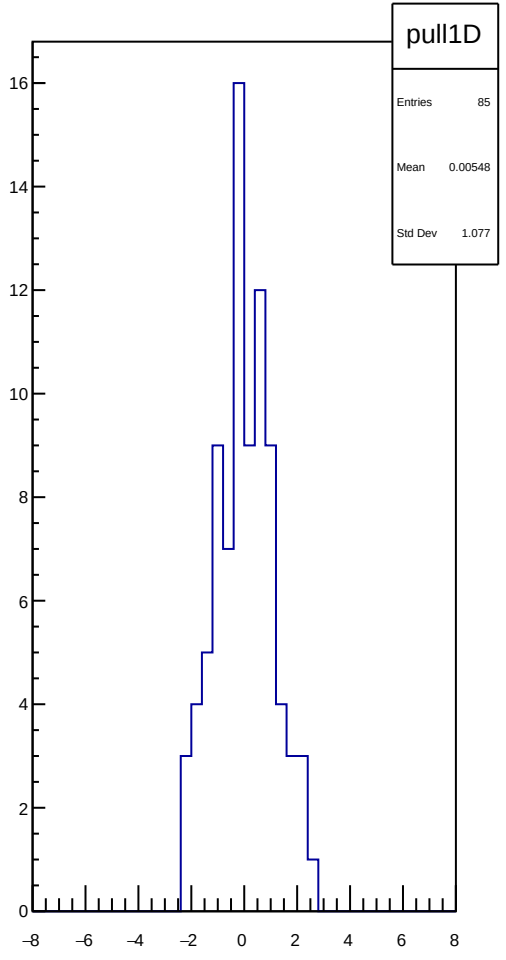

diff_bpm1i04Y_rms vs run
χ² / ndf 927.3 / 84
p0 718.8 ± 0.5655
760
740
720
700
680
660

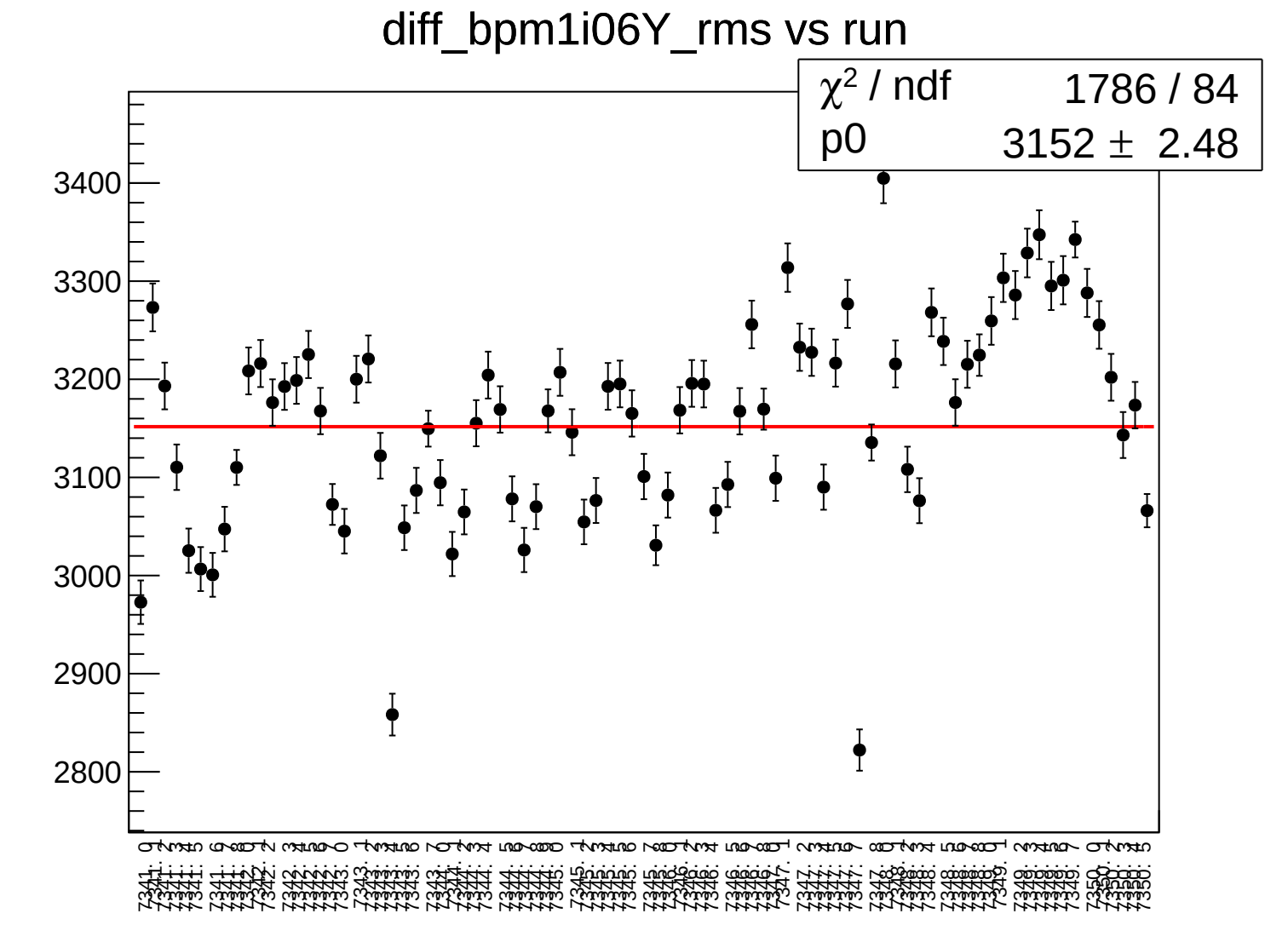

diff_bpm1i06X_mean vs run
χ² / ndf 101.6 / 84
p0 20.51 ± 3.11
pull
Entries 85
Mean 224.1
Std Dev 0

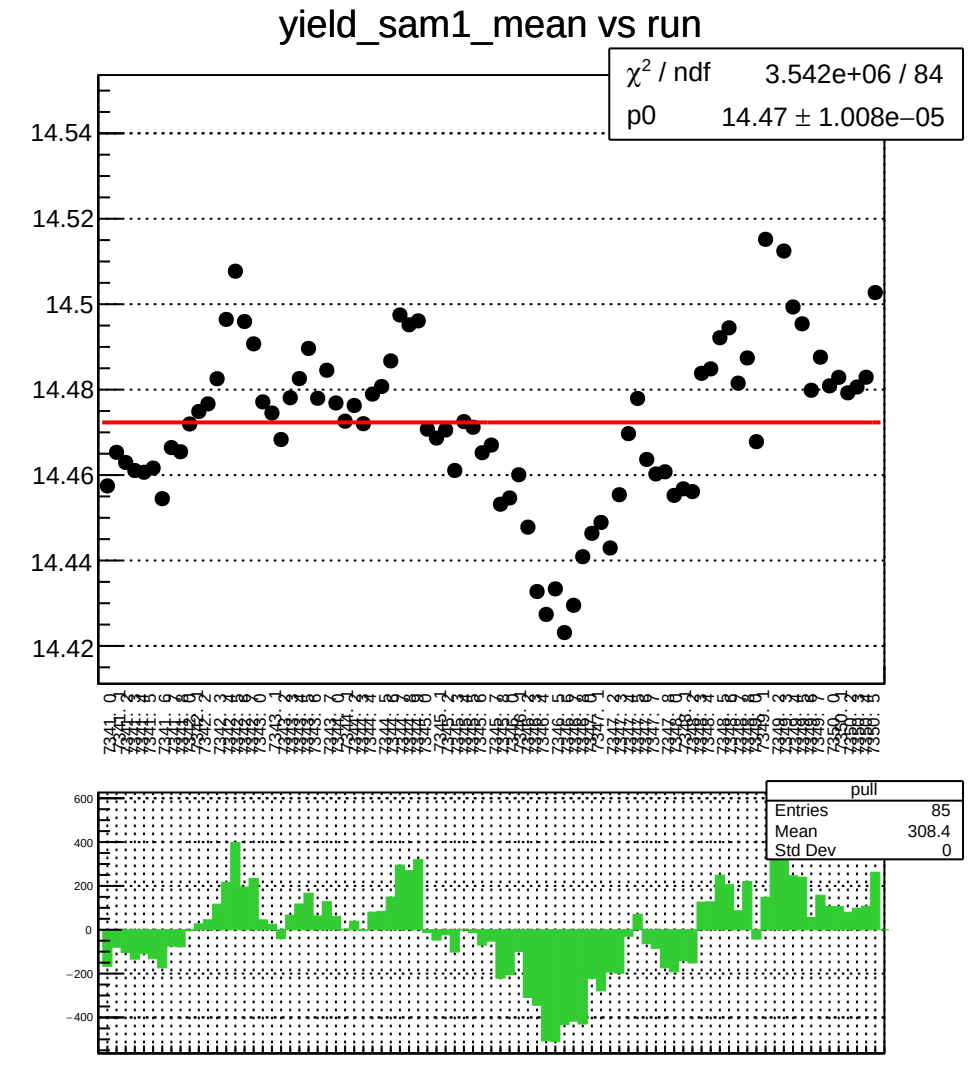

pull1D
Entries 85
Mean 0.008105
Std Dev 1.093

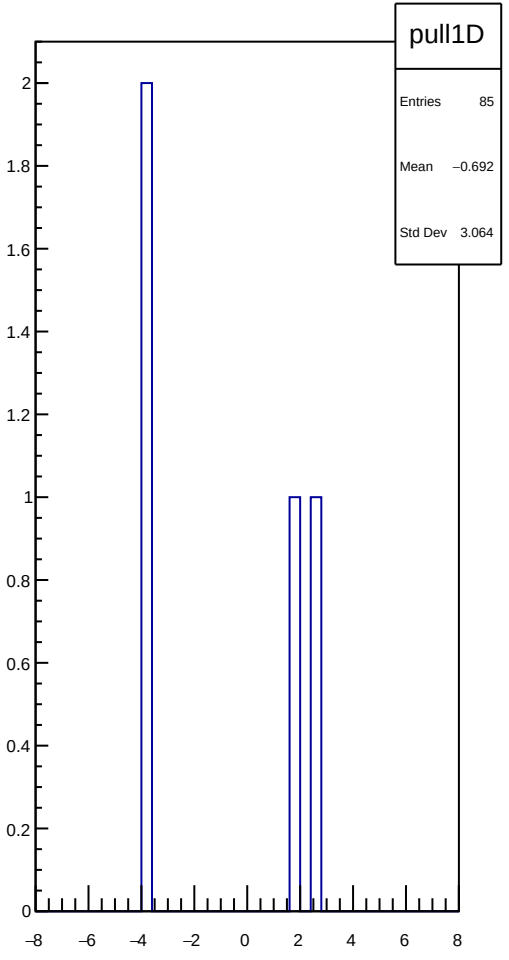

diff_bpm1i06X_rms vs run
χ² / ndf 2275 / 84
p0 2794 ± 2.199
3100
3000
2900
2800
2700
2600

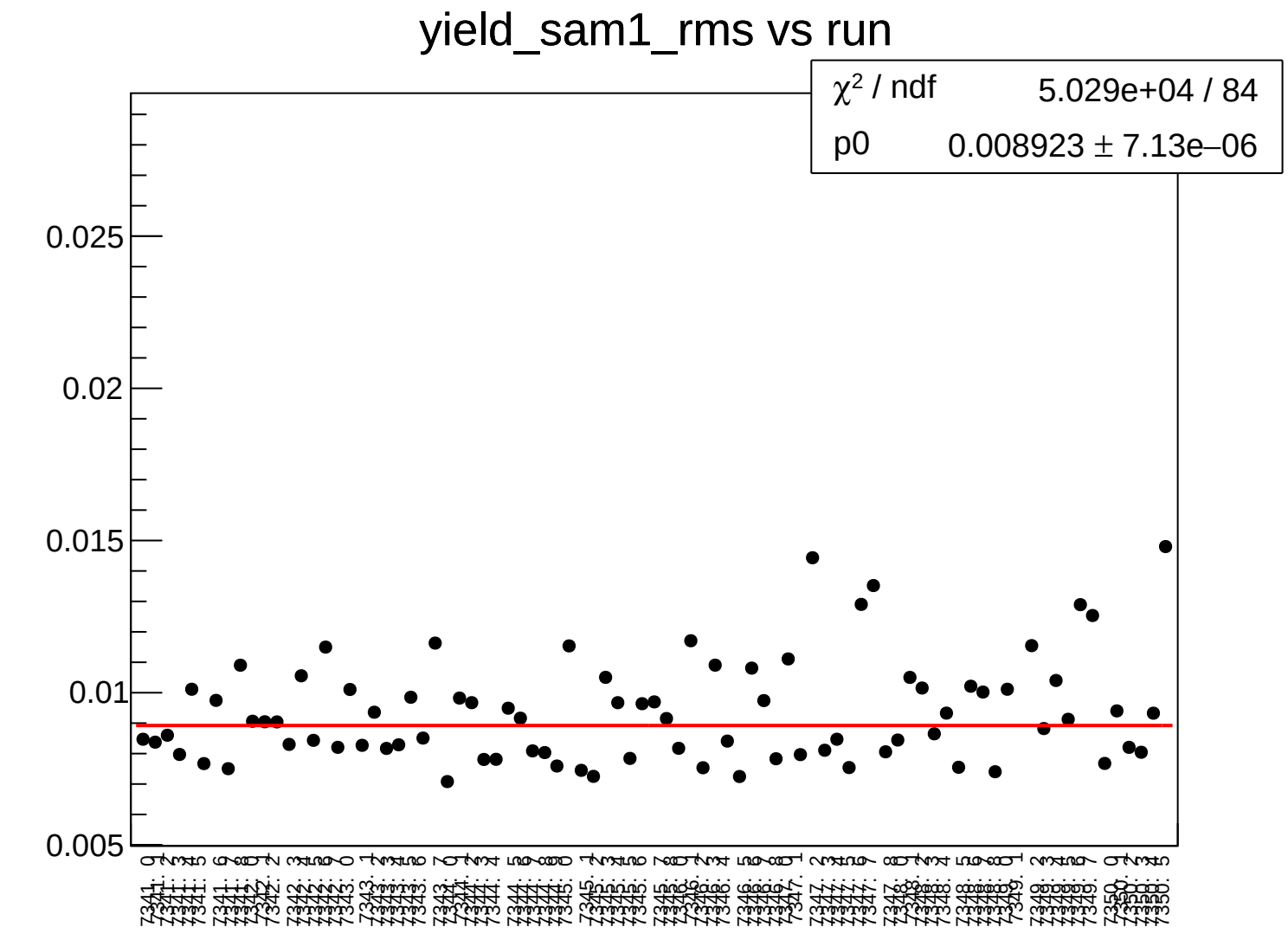

diff_bpm1i06Y_mean vs run
χ^2 / ndf 98.57 / 84
p0 −13.93 ± 3.508
100
50
0
−50
−100
pull
Entries 85
Mean 457.8
Std Dev 0
2
1
0
−1
−2

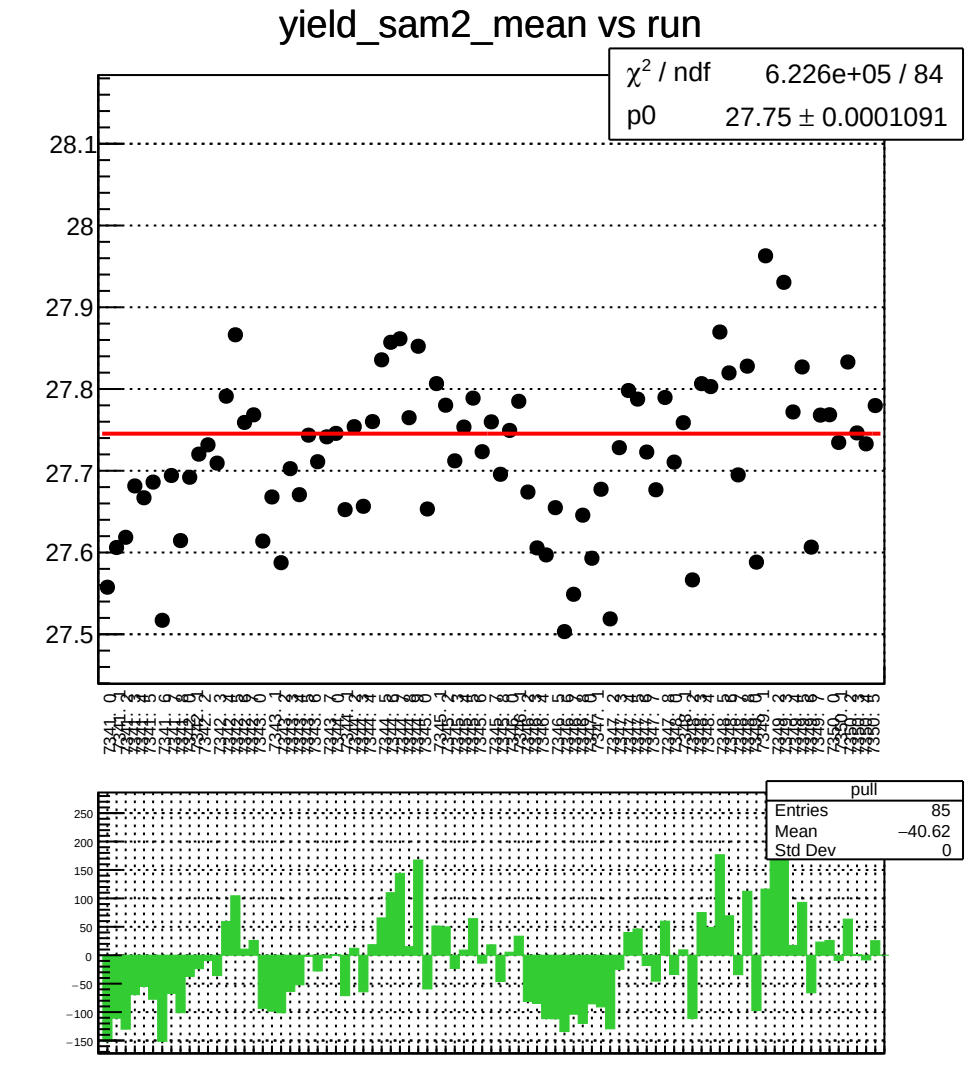

pull1D
Entries 85
Mean 0.00548
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

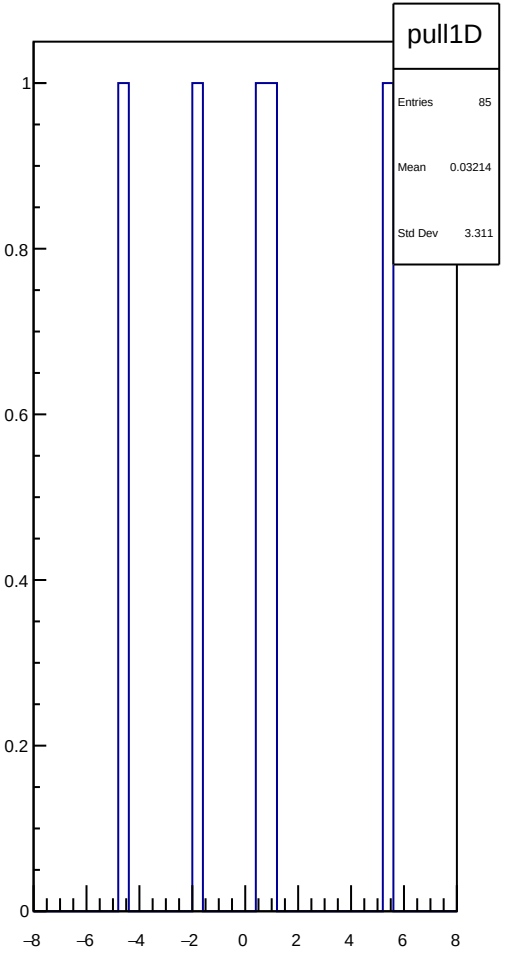

diff_bpm1i06Y_rms vs run
χ² / ndf 1786 / 84
p0 3152 ± 2.48
3400
3300
3200
3100
3000
2900
2800

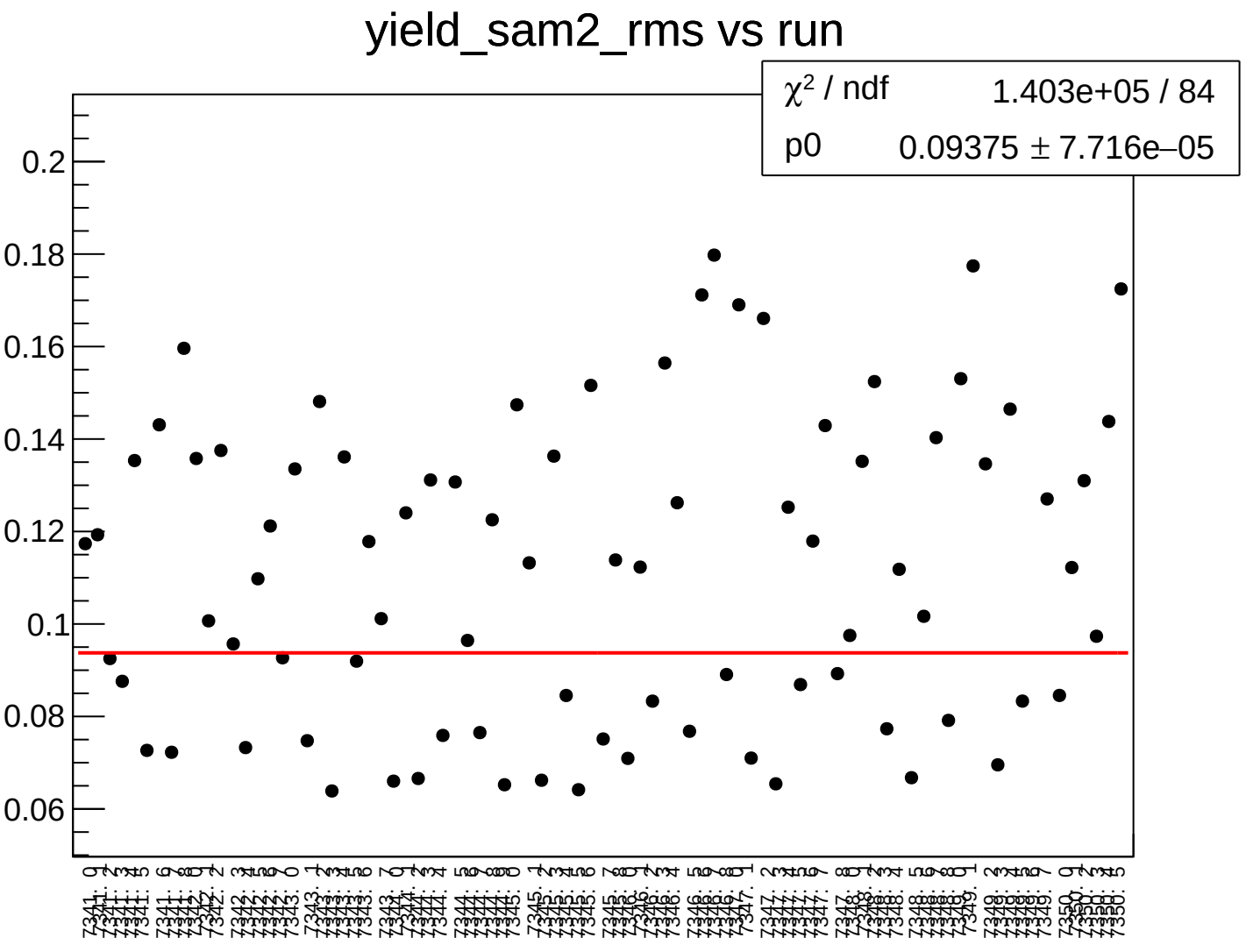

yield_sam1_mean vs run
χ² / ndf 3.542e+06 / 84
p0 14.47 ± 1.008e−05
14.54
14.52
14.5
14.48
14.46
14.44
14.42
pull
Entries 85
Mean 308.4
Std Dev 0
600
400
200
0
−200
−400

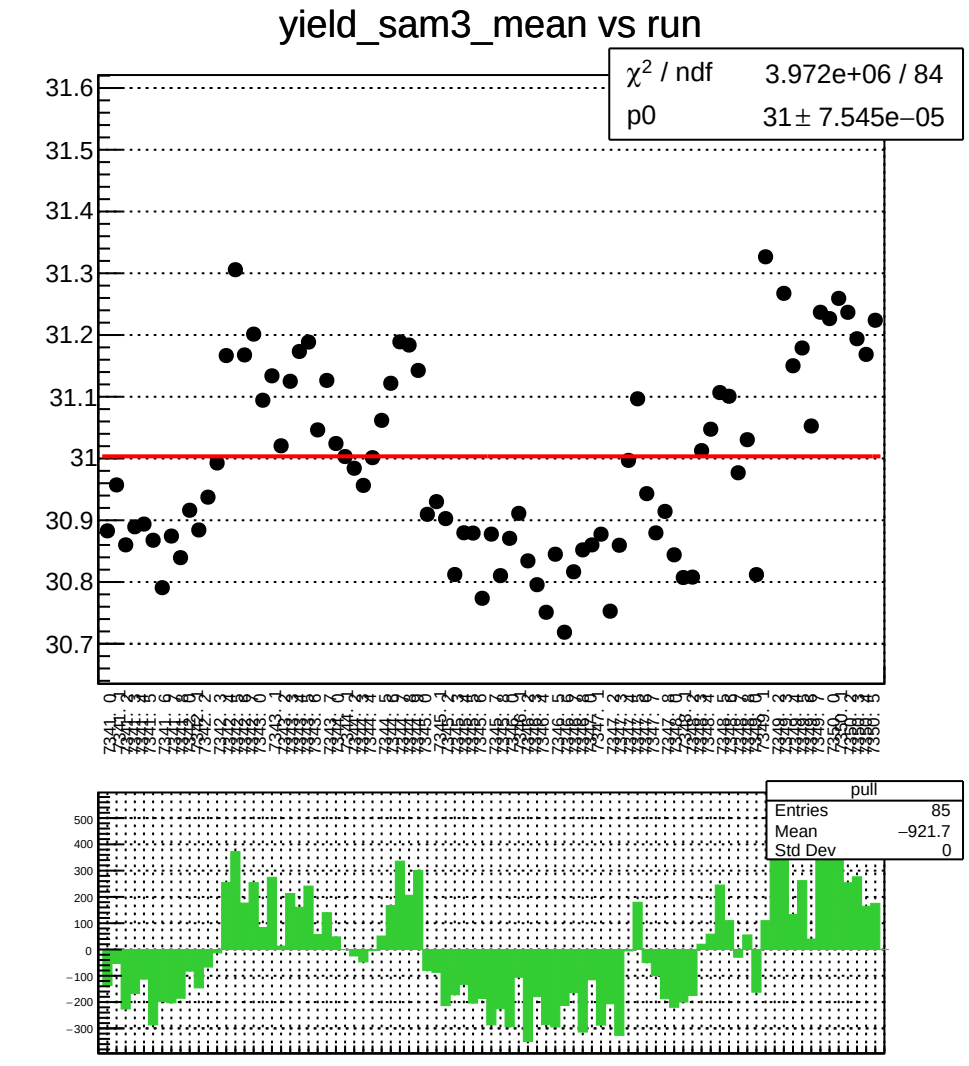

pull1D
Entries 85
Mean −0.692
Std Dev 3.064
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

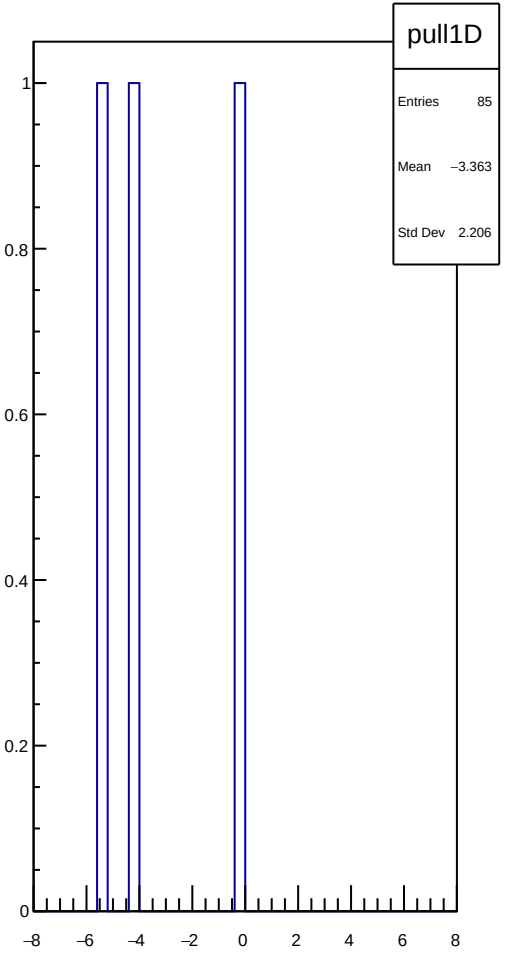

yield_sam1_rms vs run
χ² / ndf 5.029e+04 / 84
p0 0.008923 ± 7.13e−06
0.025
0.02
0.015
0.01
0.005

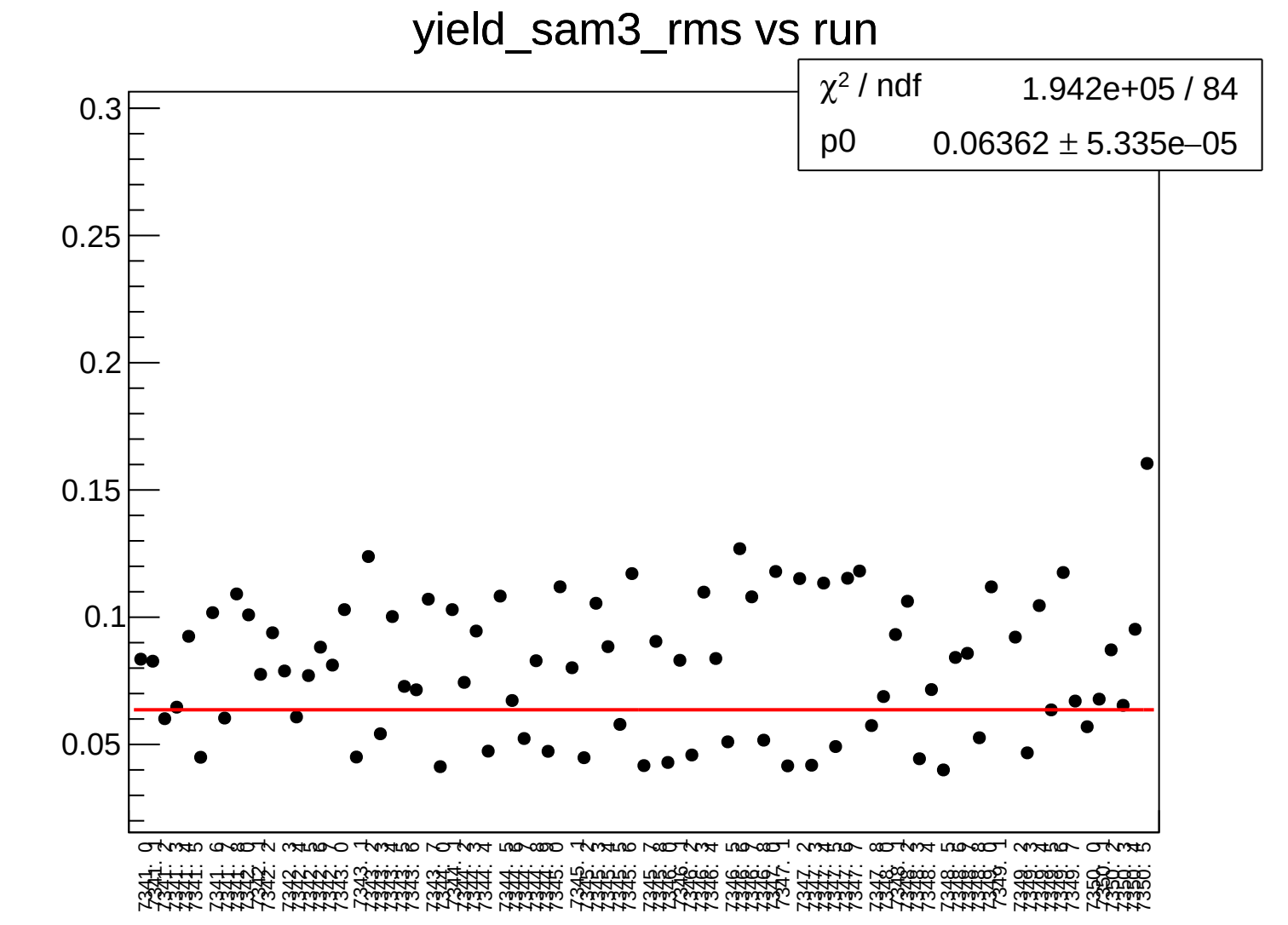

yield_sam2_mean vs run
χ² / ndf 6.226e+05 / 84
p0 27.75 ± 0.0001091
28.1
28
27.9
27.8
27.7
27.6
27.5
pull
Entries 85
Mean −40.62
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

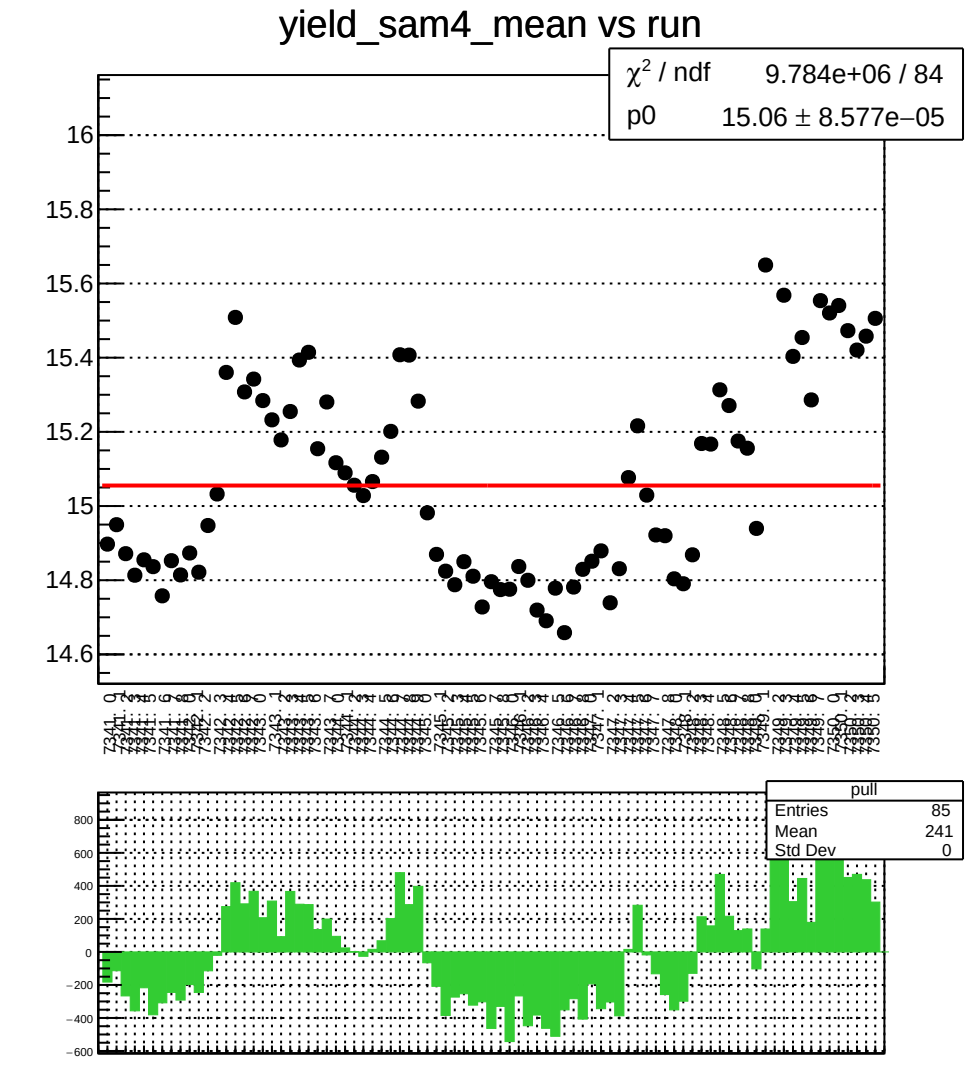

pull1D
Entries 85
Mean 0.03214
Std Dev 3.311
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

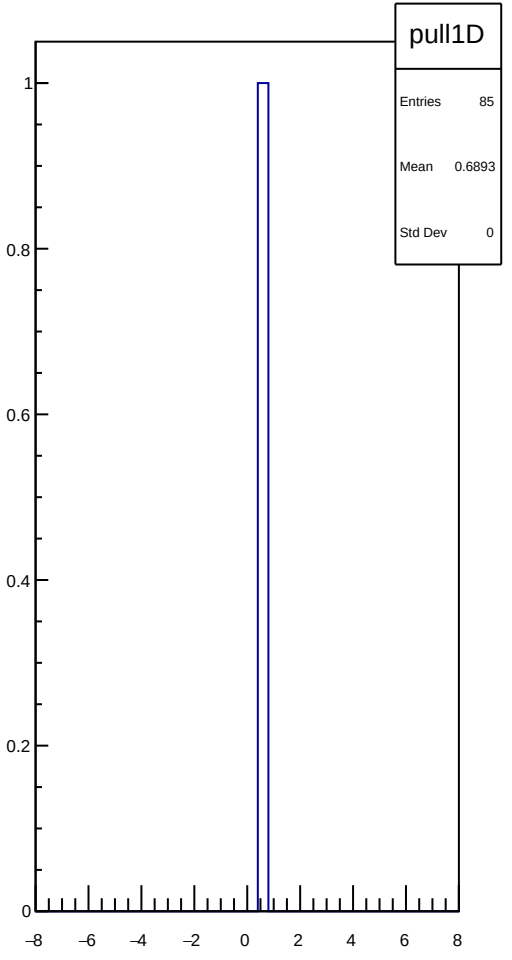

yield_sam2_rms vs run
χ² / ndf 1.403e+05 / 84
p0 0.09375 ± 7.716e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

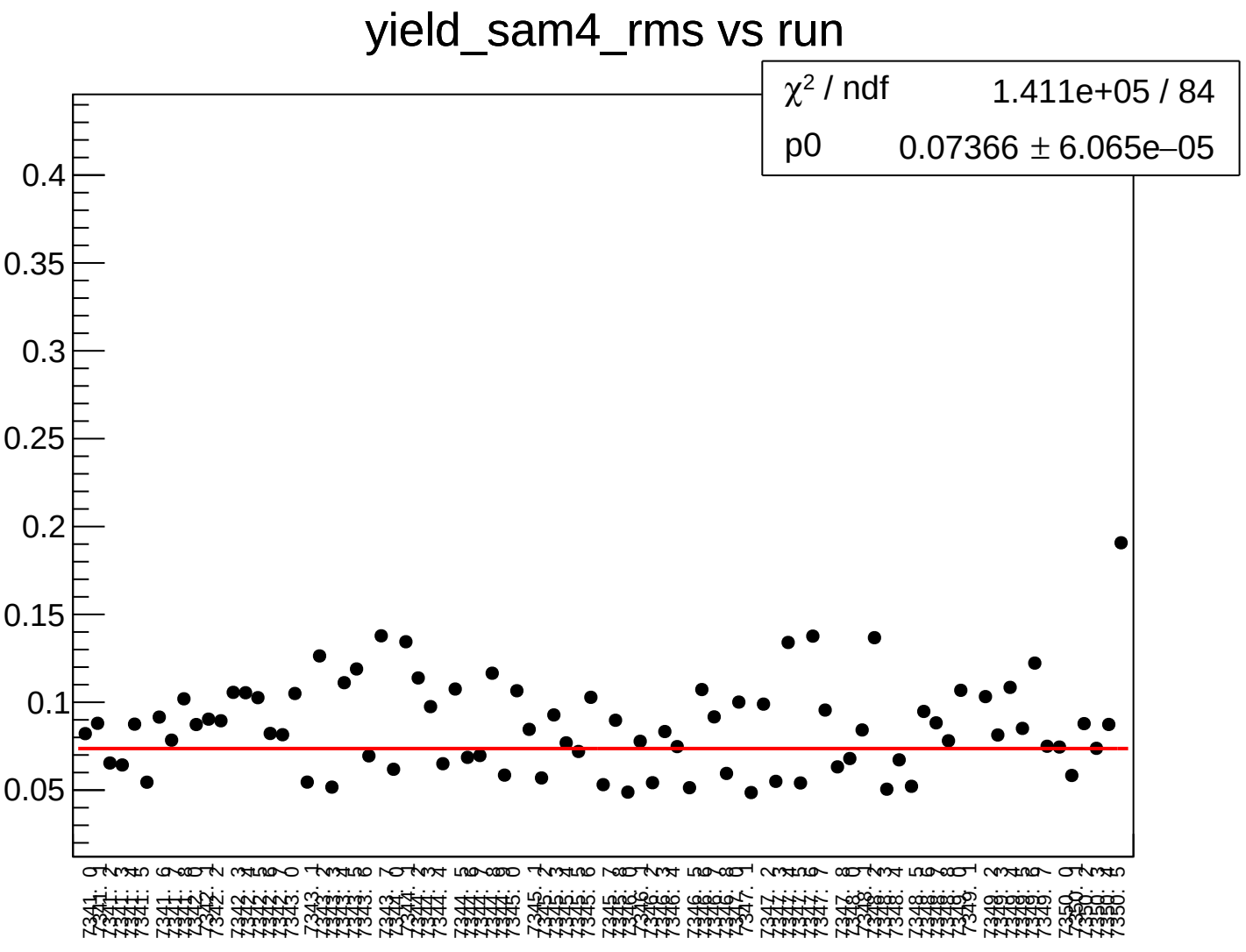

yield_sam3_mean vs run
χ² / ndf 3.972e+06 / 84
p0 31 ± 7.545e−05
31.6
31.5
31.4
31.3
31.2
31.1
31
30.9
30.8
30.7
pull
Entries 85
Mean −921.7
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

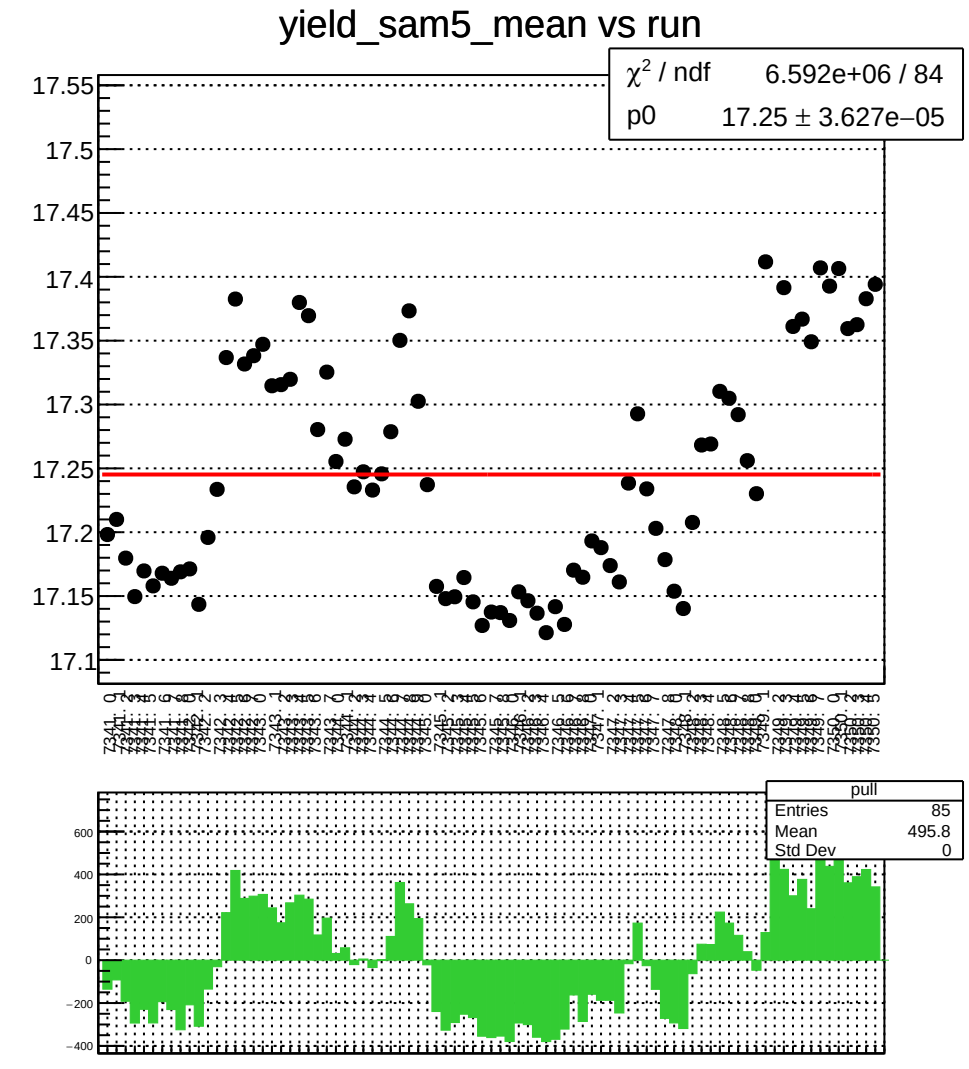

pull1D
Entries 85
Mean −3.363
Std Dev 2.206
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

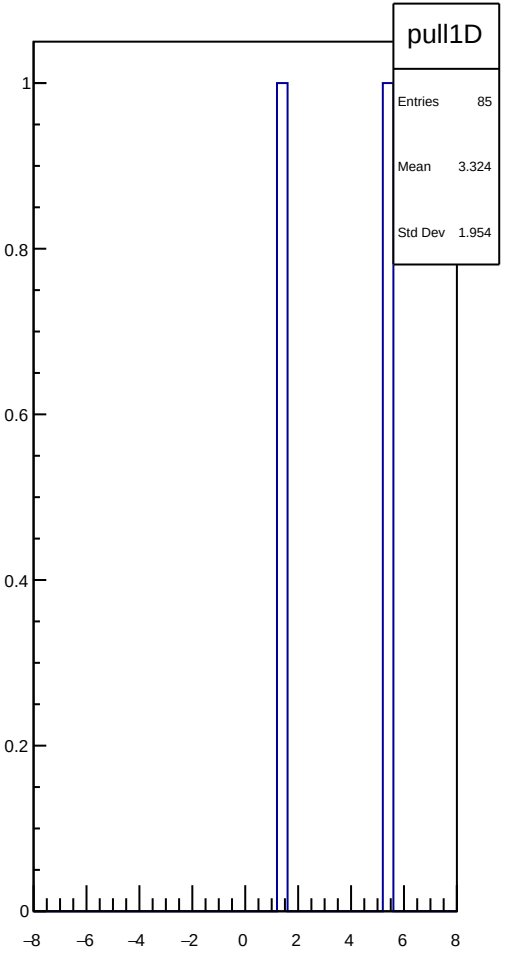

yield_sam3_rms vs run
χ² / ndf 1.942e+05 / 84
p0 0.06362 ± 5.335e−05
0.3
0.25
0.2
0.15
0.1
0.05

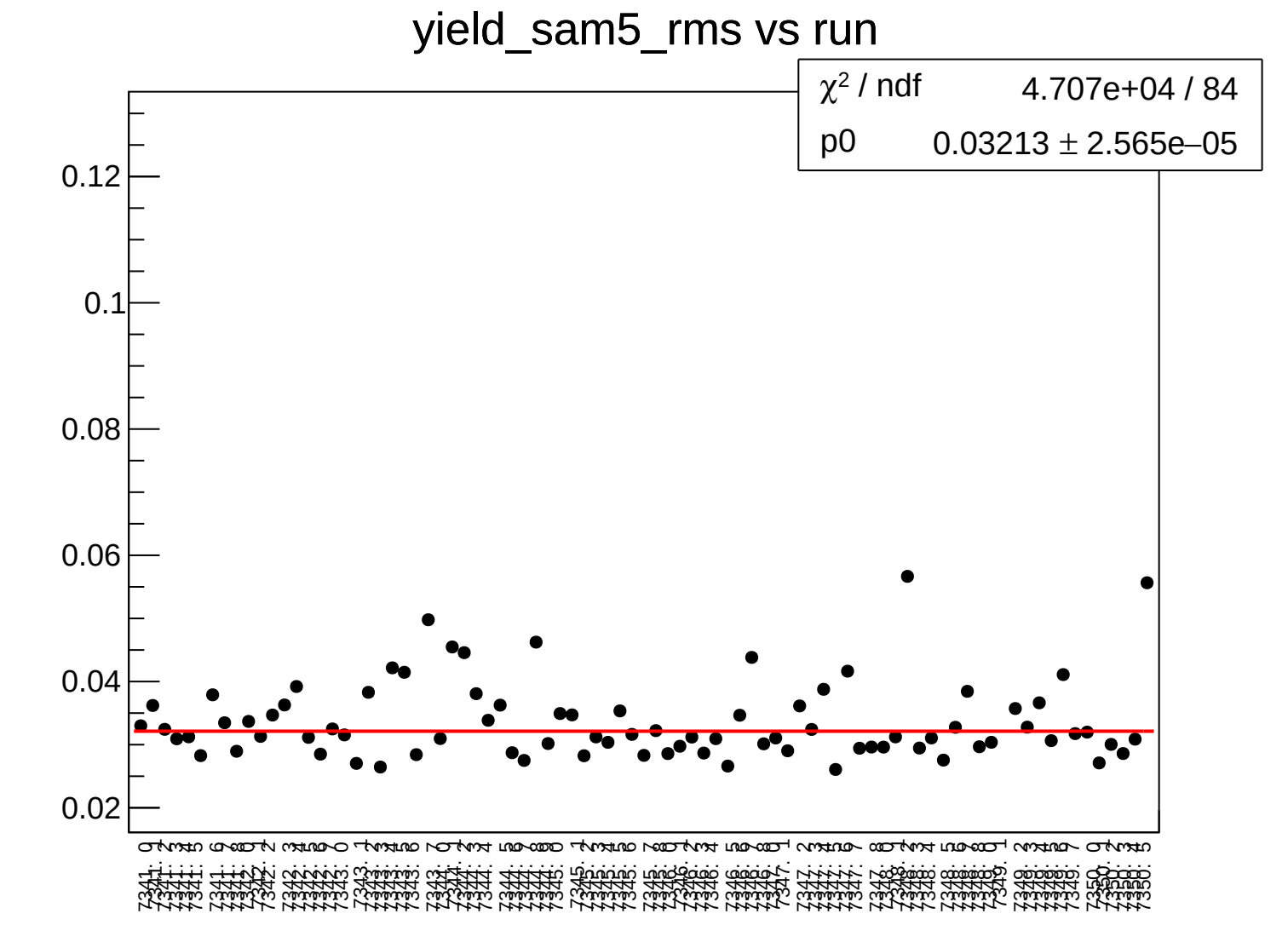

yield_sam4_mean vs run
χ² / ndf 9.784e+06 / 84
p0 15.06 ± 8.577e−05
pull
Entries 85
Mean 241
Std Dev 0

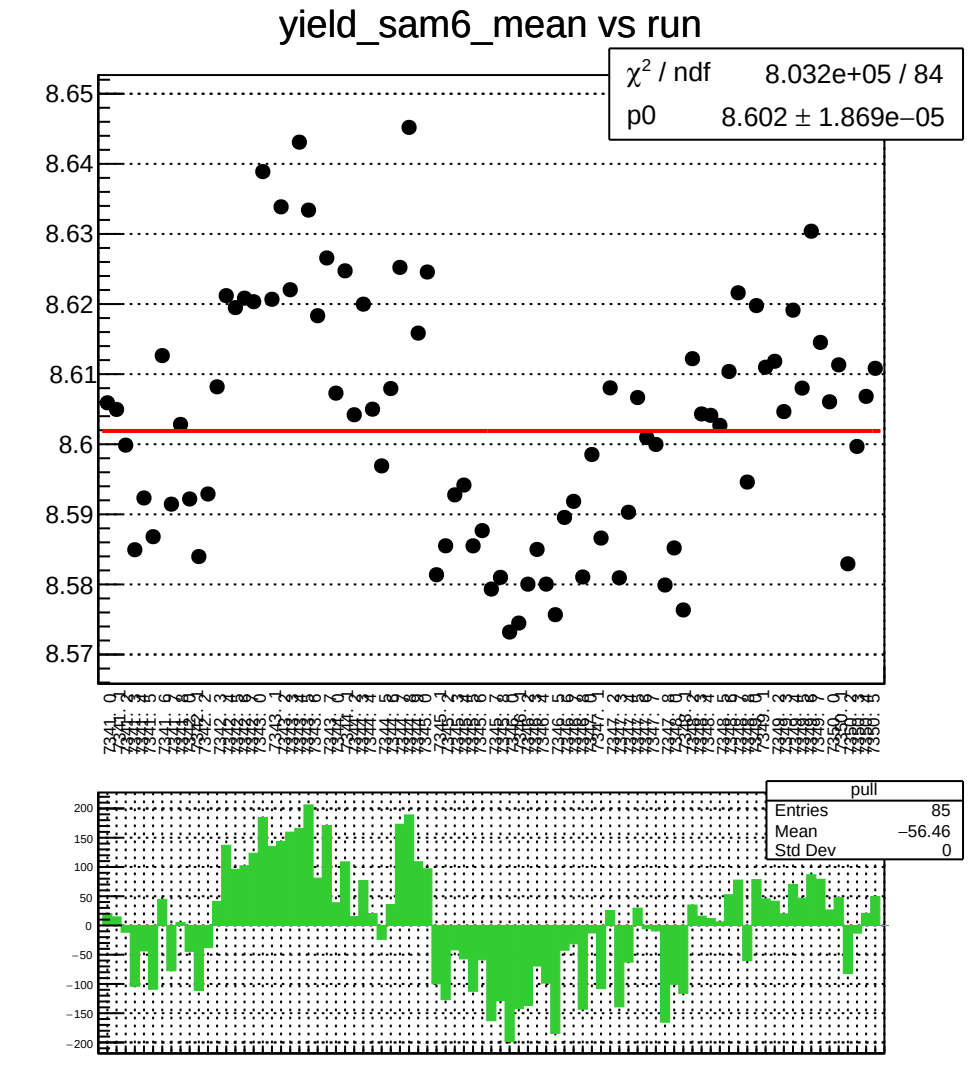

pull1D
Entries 85
Mean 0.6893
Std Dev 0

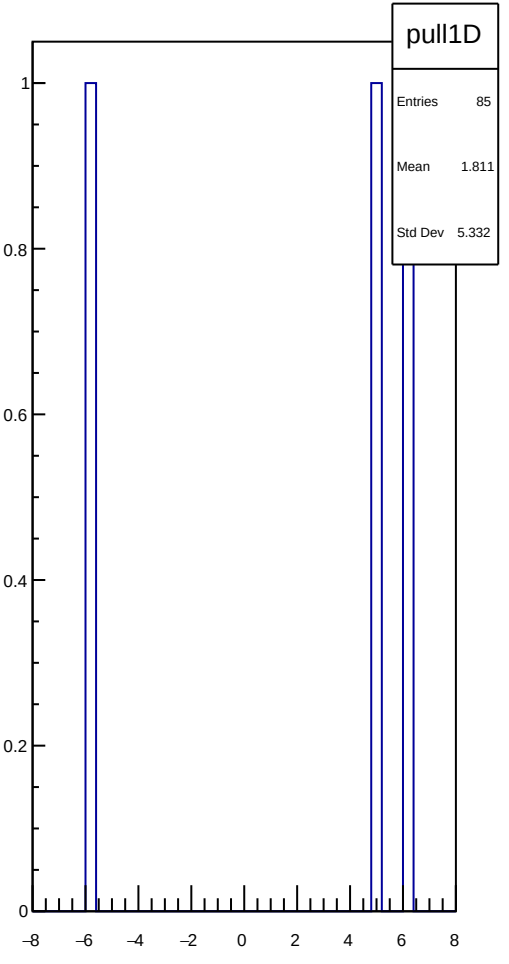

yield_sam4_rms vs run
χ² / ndf 1.411e+05 / 84
p0 0.07366 ± 6.065e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

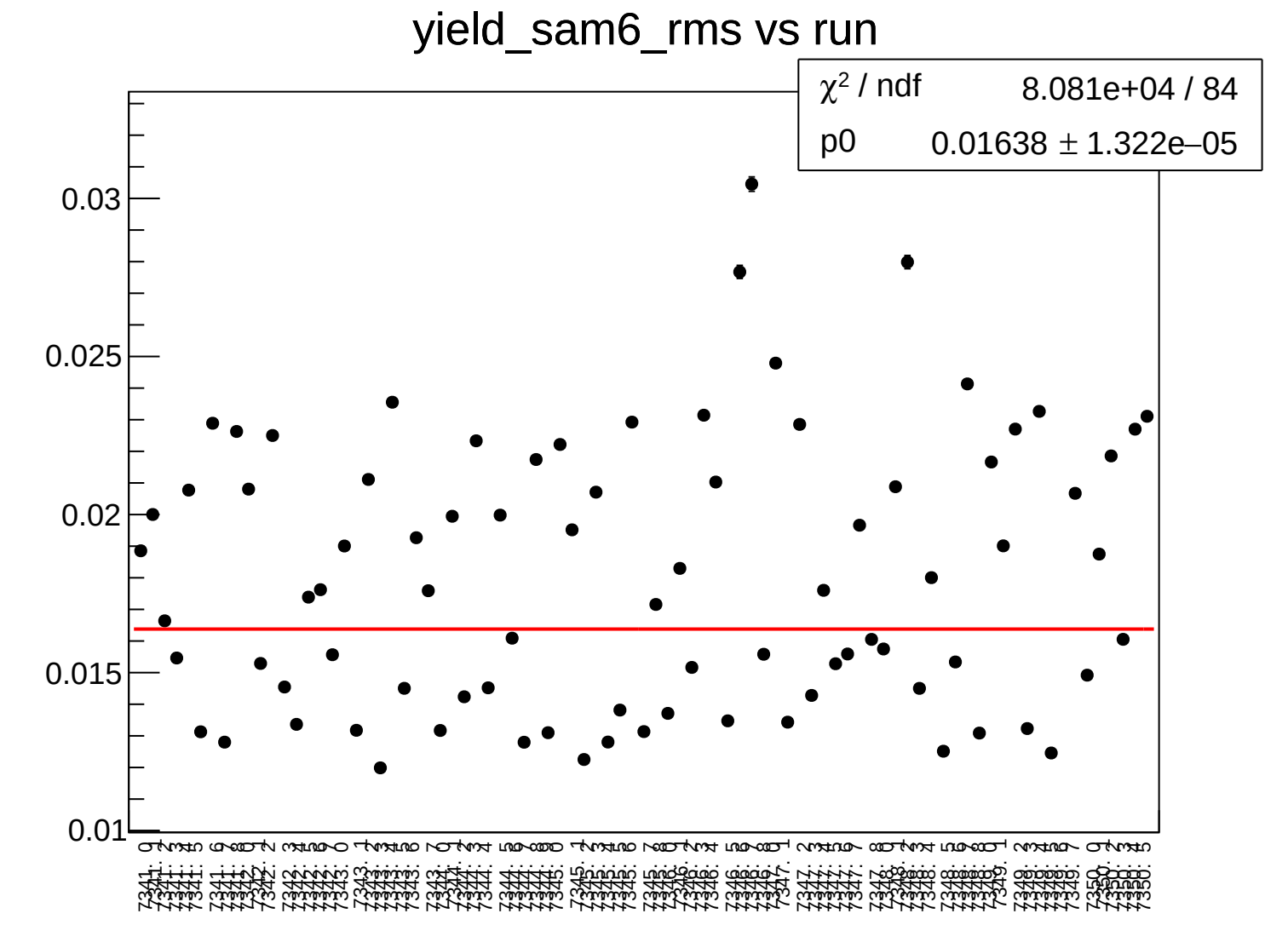

yield_sam5_mean vs run
χ² / ndf 6.592e+06 / 84
p0 17.25 ± 3.627e−05
17.55
17.5
17.45
17.4
17.35
17.3
17.25
17.2
17.15
17.1
pull
Entries 85
Mean 495.8
Std Dev 0
600
400
200
0
−200
−400

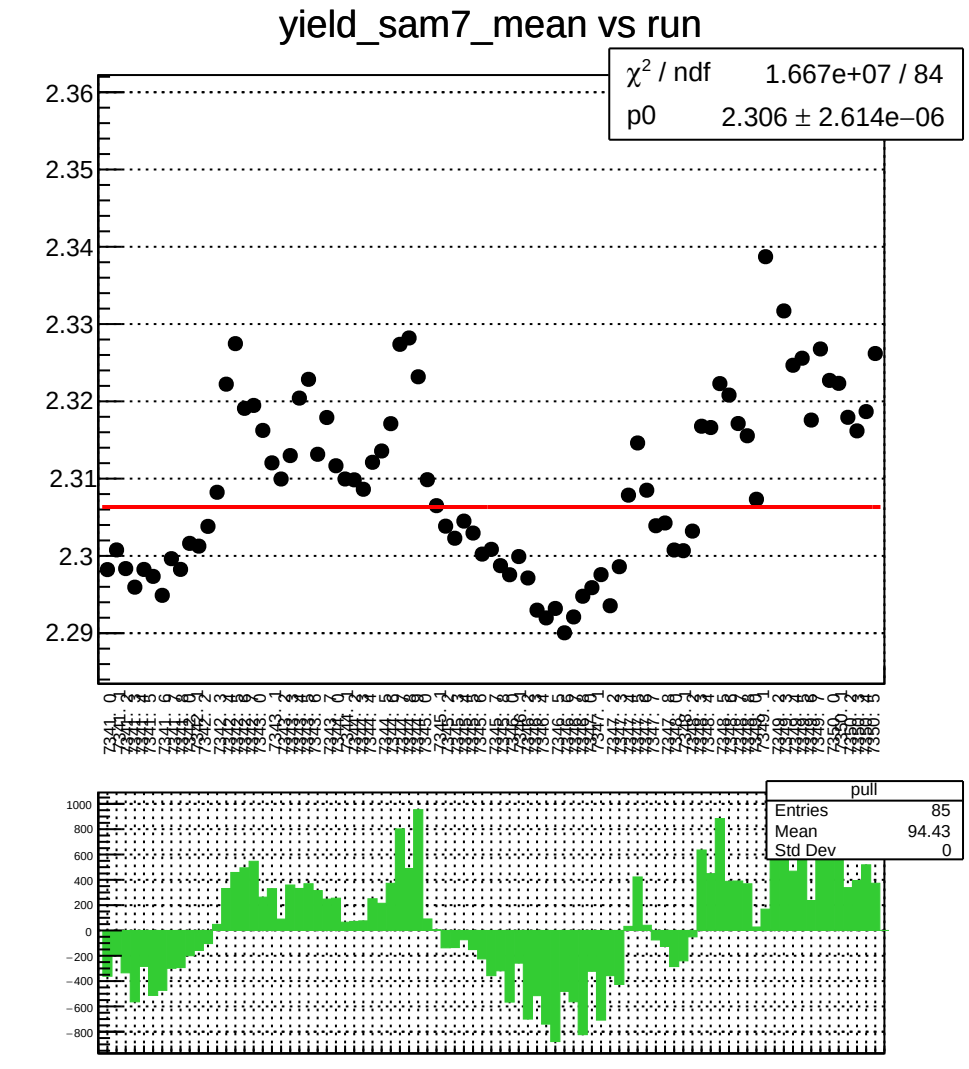

pull1D
Entries 85
Mean 3.324
Std Dev 1.954
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

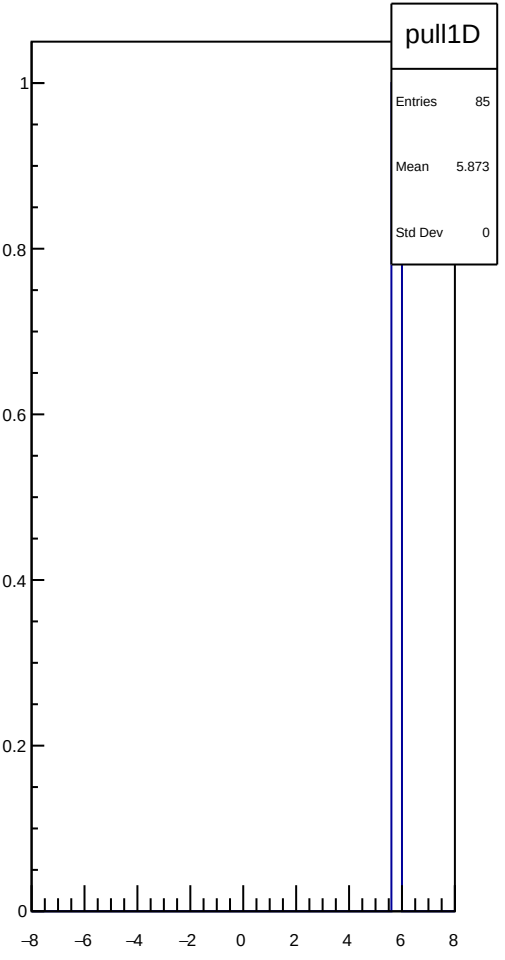

yield_sam5_rms vs run
χ² / ndf 4.707e+04 / 84
p0 0.03213 ± 2.565e−05
0.12
0.1
0.08
0.06
0.04
0.02

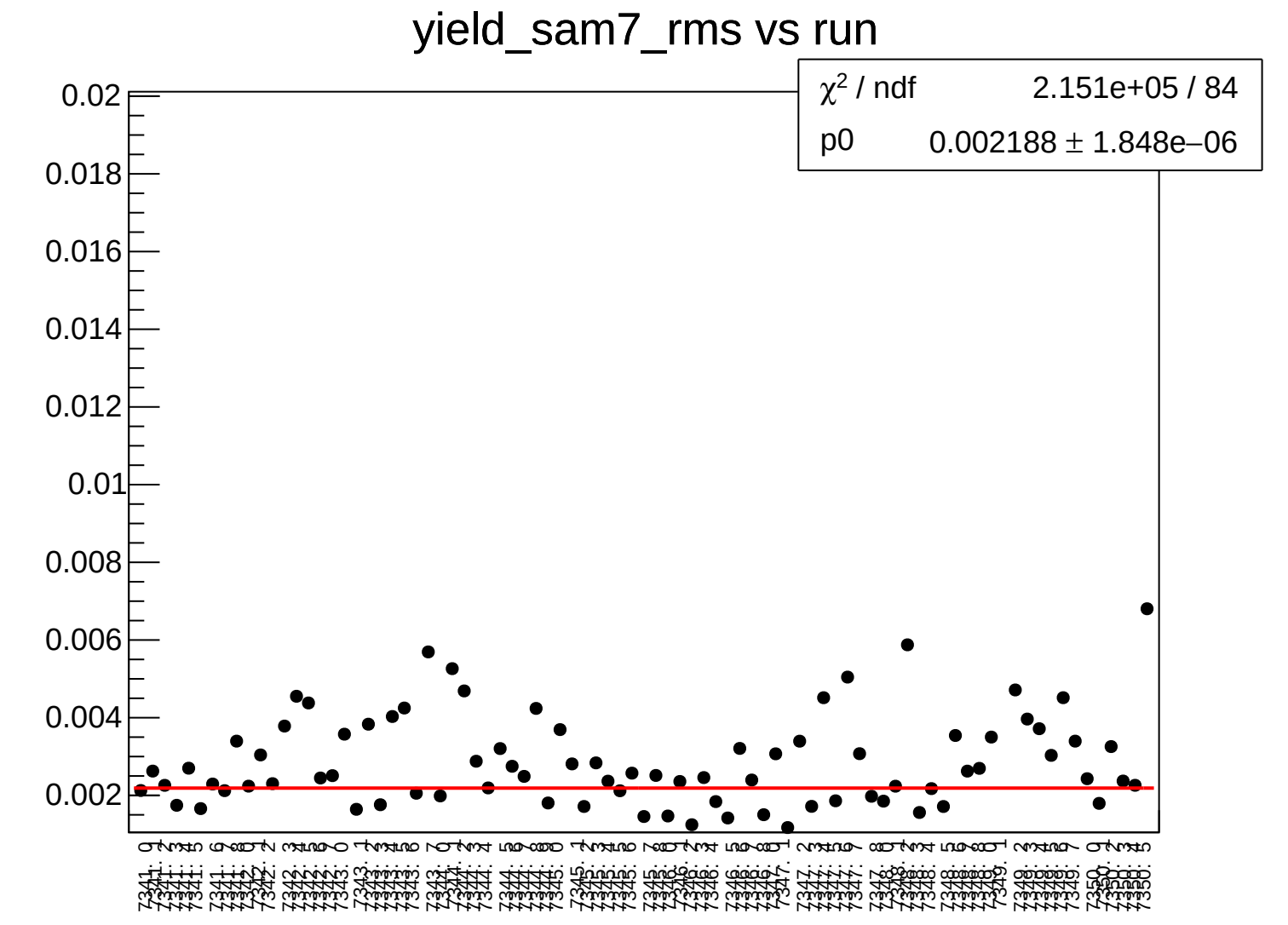

yield_sam6_mean vs run
χ² / ndf 8.032e+05 / 84
p0 8.602 ± 1.869e−05
8.65
8.64
8.63
8.62
8.61
8.6
8.59
8.58
8.57
pull
Entries 85
Mean −56.46
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

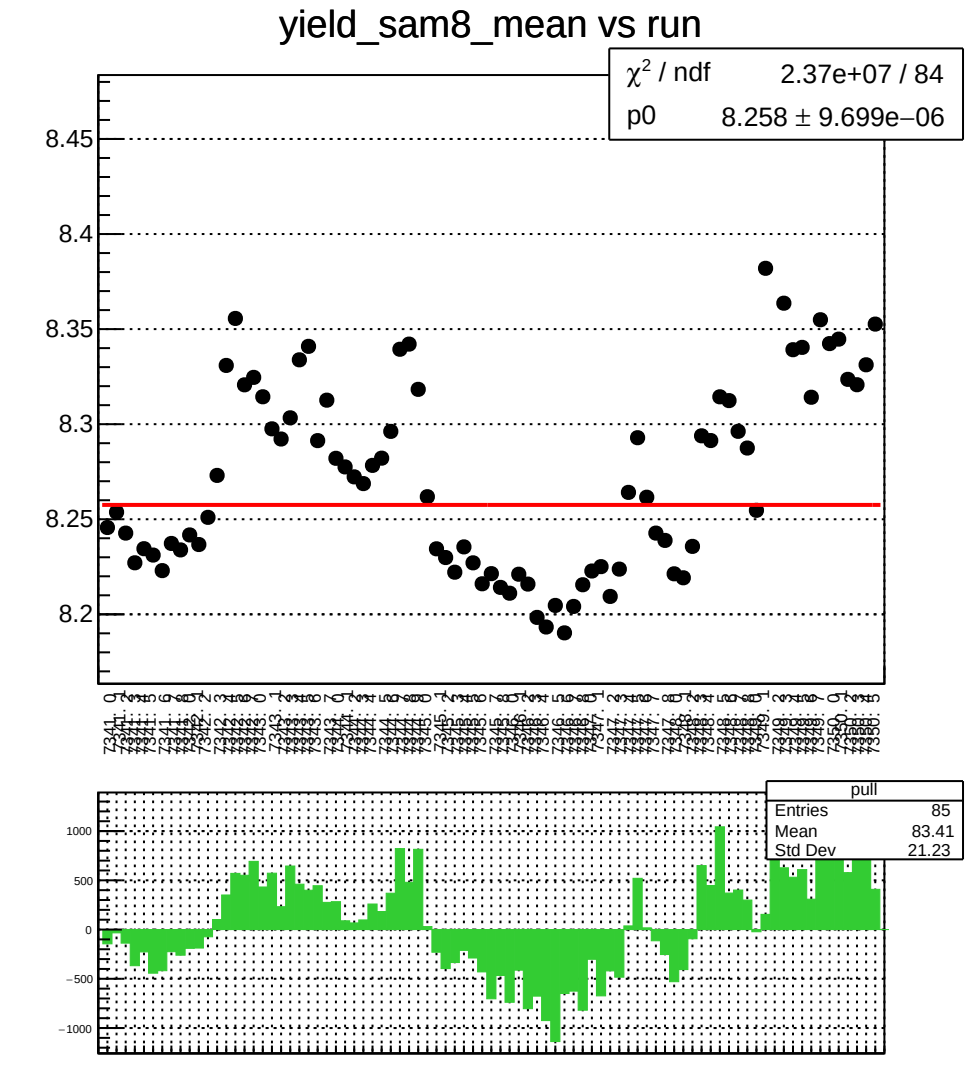

pull1D
Entries 85
Mean 1.811
Std Dev 5.332
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

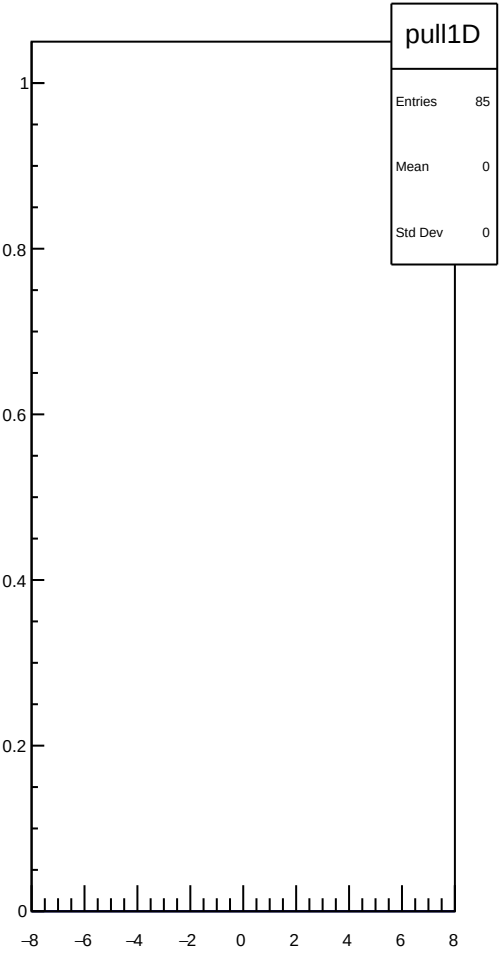

yield_sam6_rms vs run
χ² / ndf 8.081e+04 / 84
p0 0.01638 ± 1.322e−05
0.03
0.025
0.02
0.015
0.01

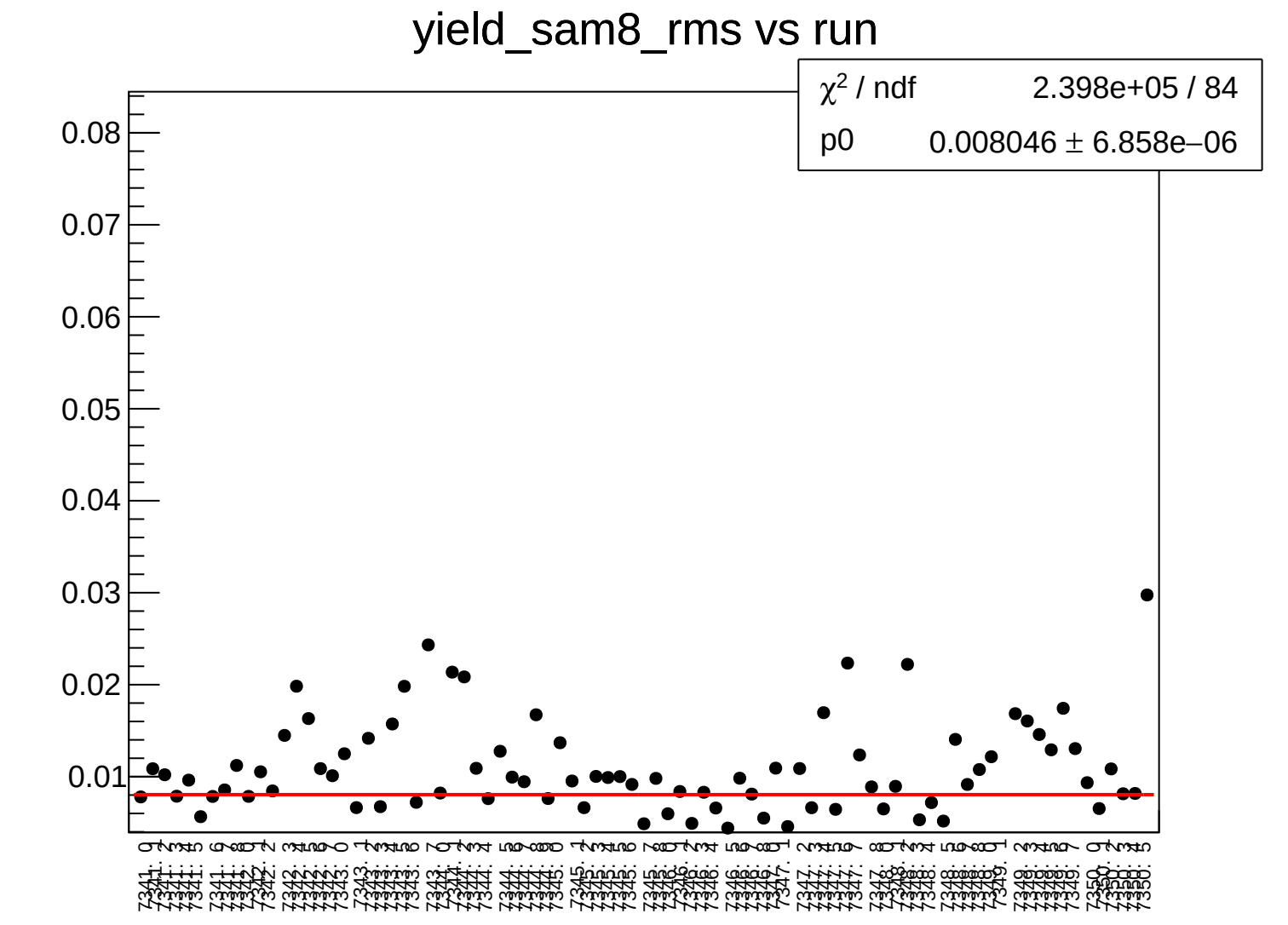

yield_sam7_mean vs run
χ² / ndf 1.667e+07 / 84
p0 2.306 ± 2.614e−06
2.36
2.35
2.34
2.33
2.32
2.31
2.3
2.29
pull
Entries 85
Mean 94.43
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

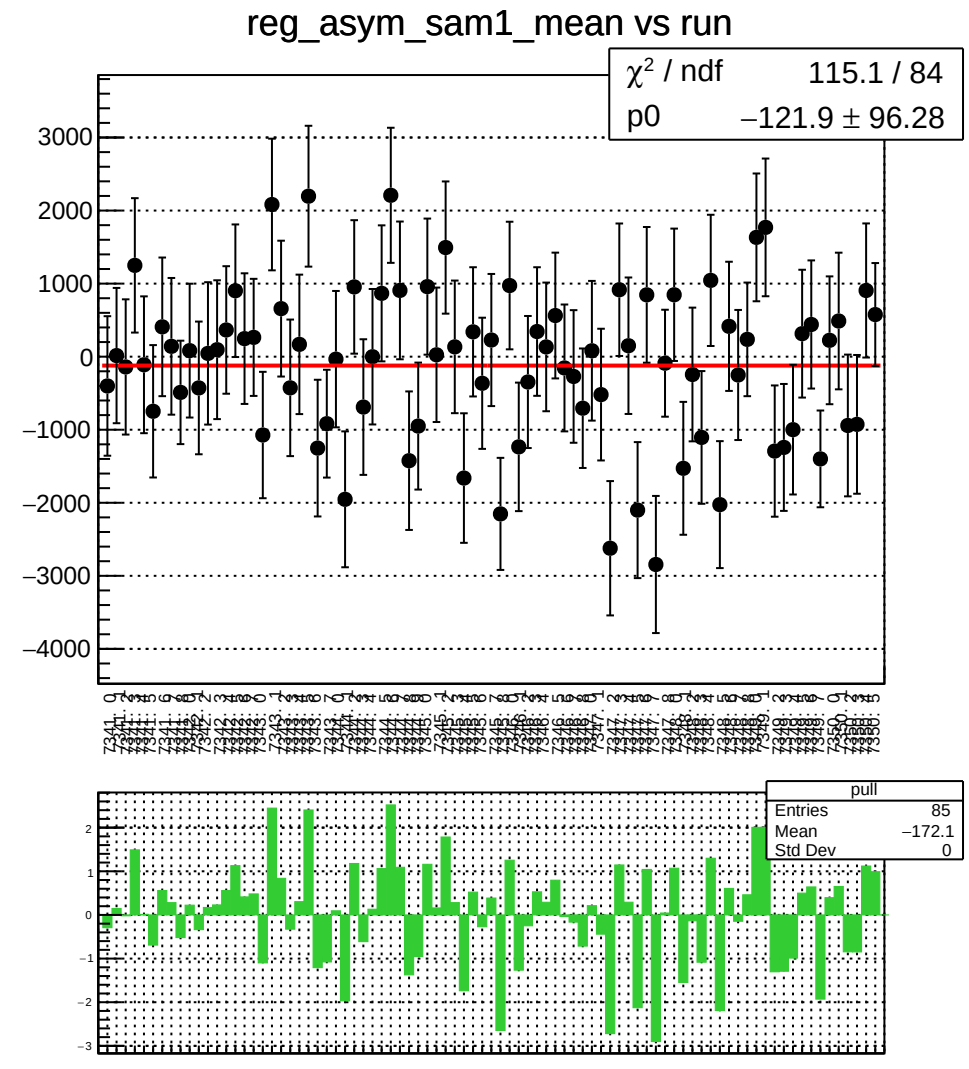

pull1D
Entries 85
Mean 5.873
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

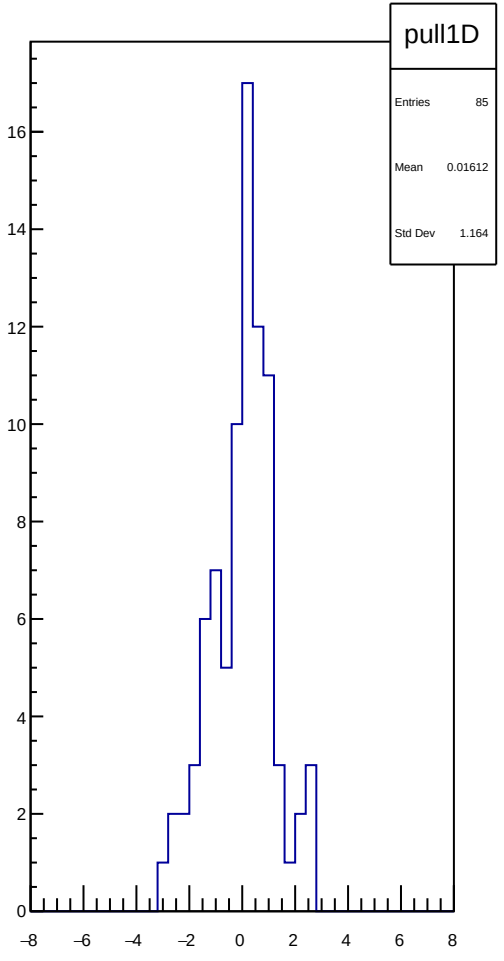

yield_sam7_rms vs run
χ² / ndf 2.151e+05 / 84
p0 0.002188 ± 1.848e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

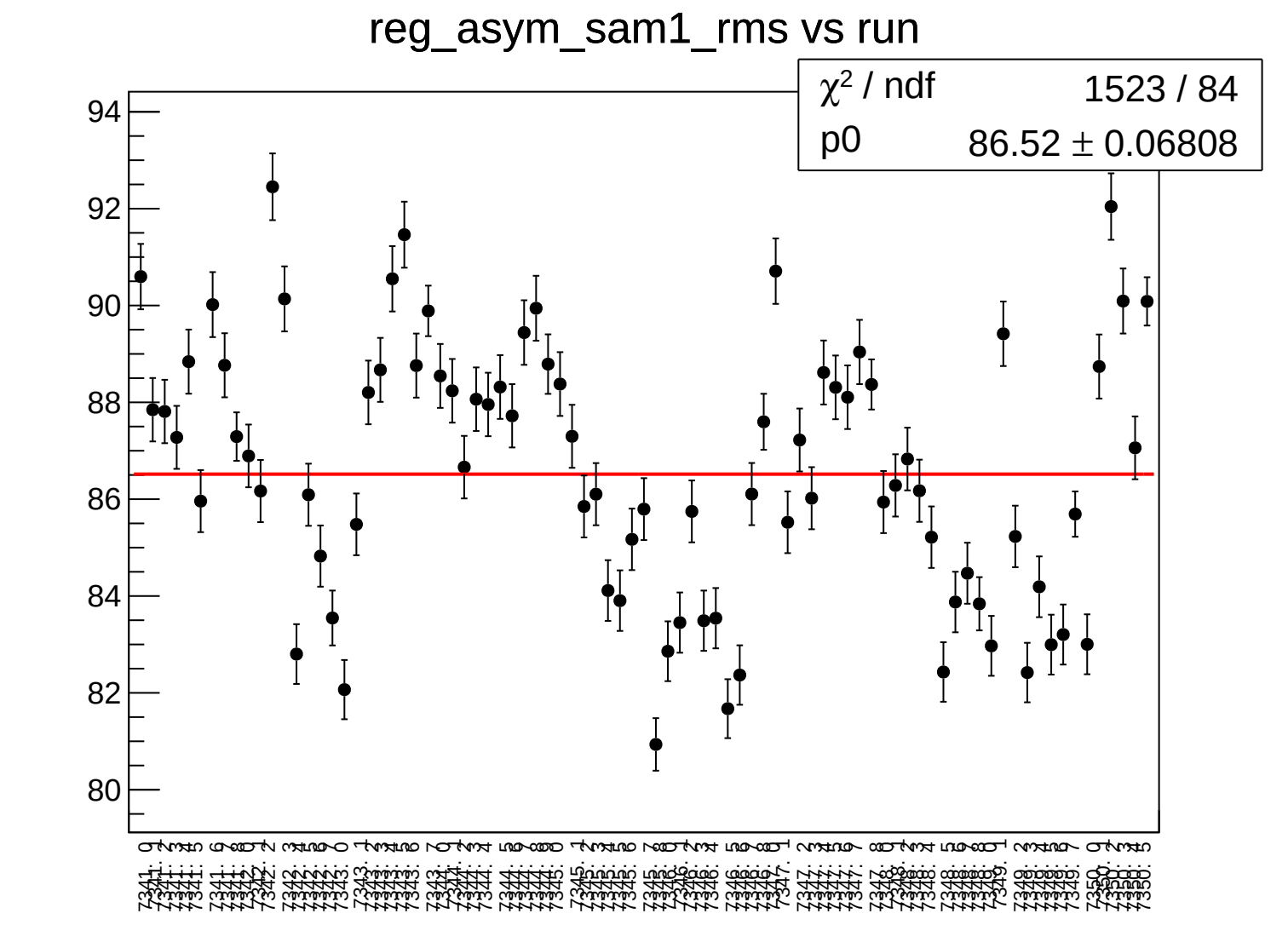

yield_sam8_mean vs run
χ² / ndf 2.37e+07 / 84
p0 8.258 ± 9.699e−06
8.45
8.4
8.35
8.3
8.25
8.2
pull
Entries 85
Mean 83.41
Std Dev 21.23
1000
500
0
−500
−1000

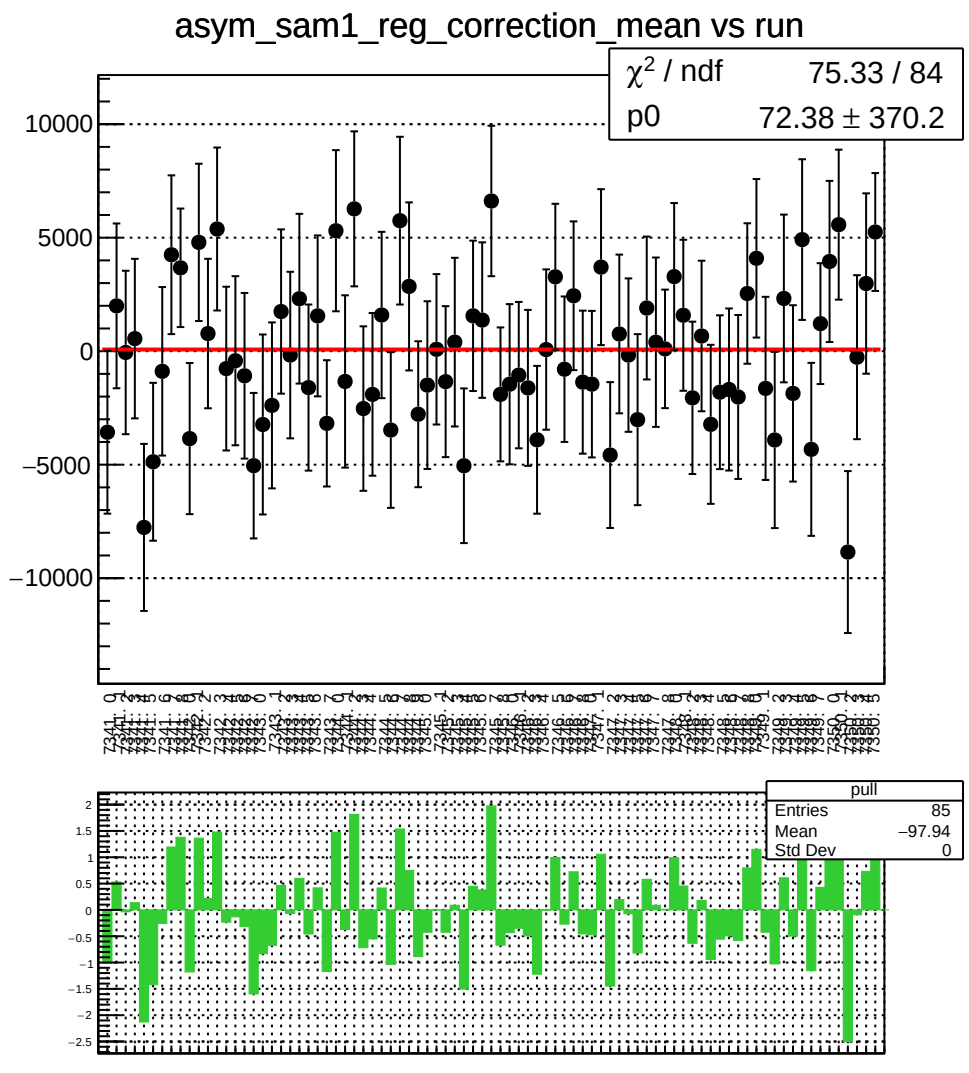

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

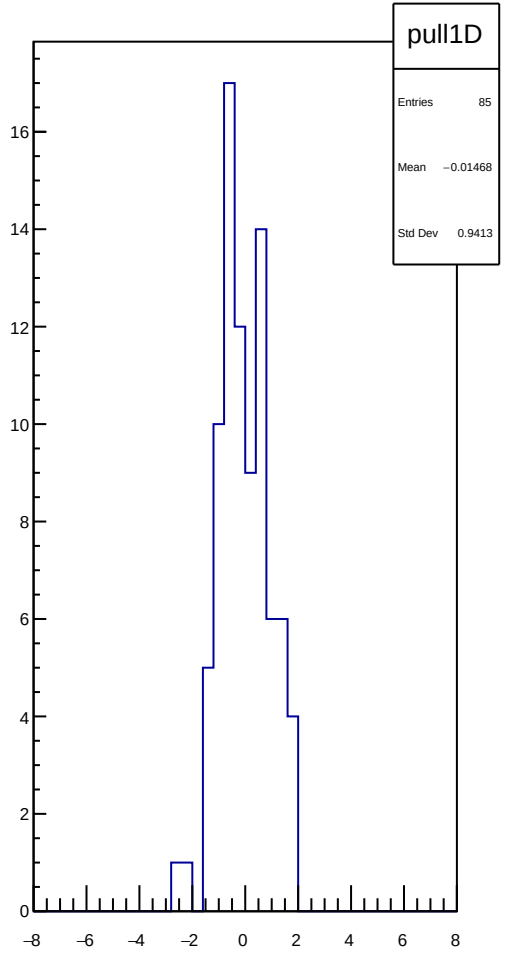

yield_sam8_rms vs run
χ² / ndf 2.398e+05 / 84
p0 0.008046 ± 6.858e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

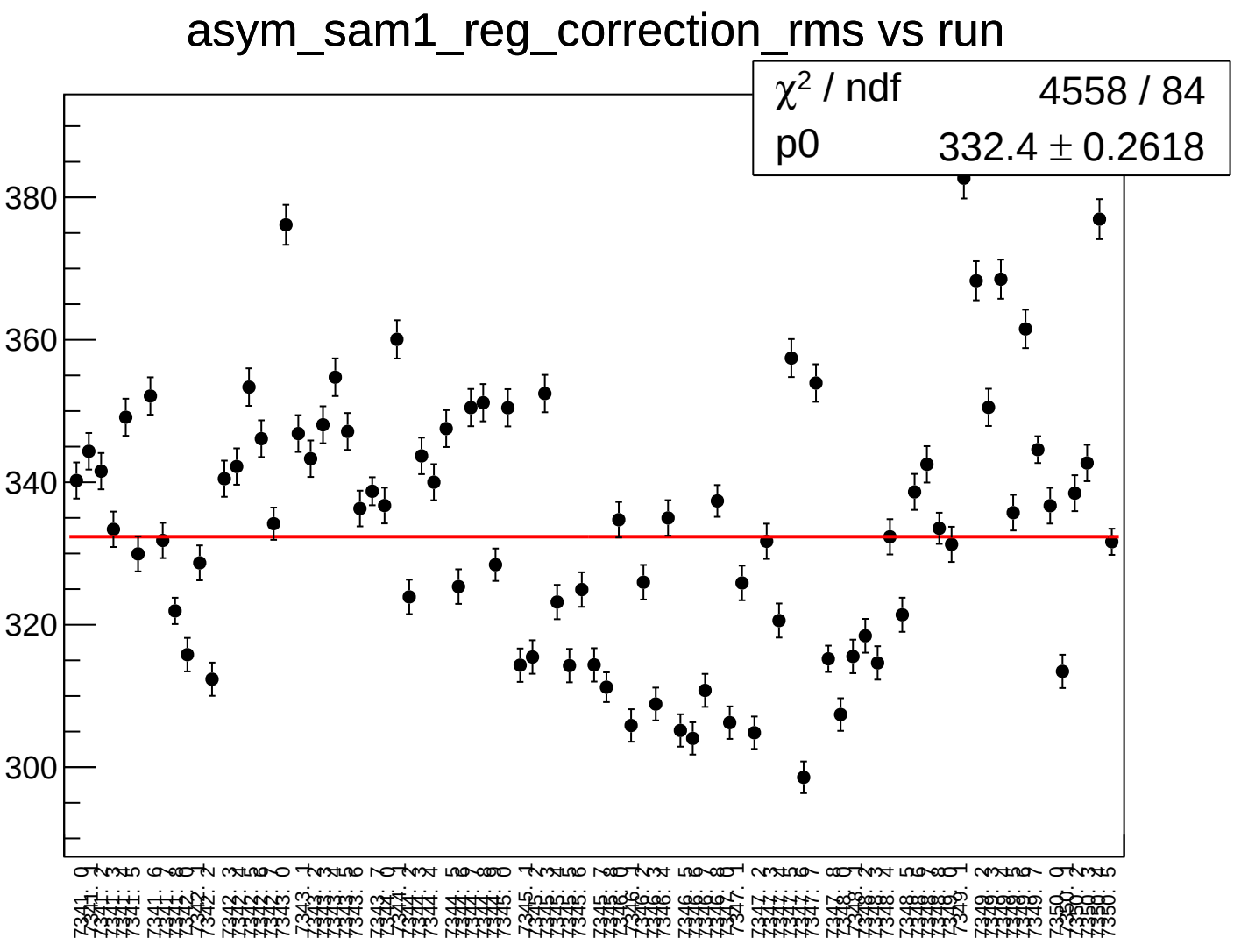

reg_asym_sam1_mean vs run
χ² / ndf 115.1 / 84
p0 −121.9 ± 96.28
pull
Entries 85
Mean −172.1
Std Dev 0

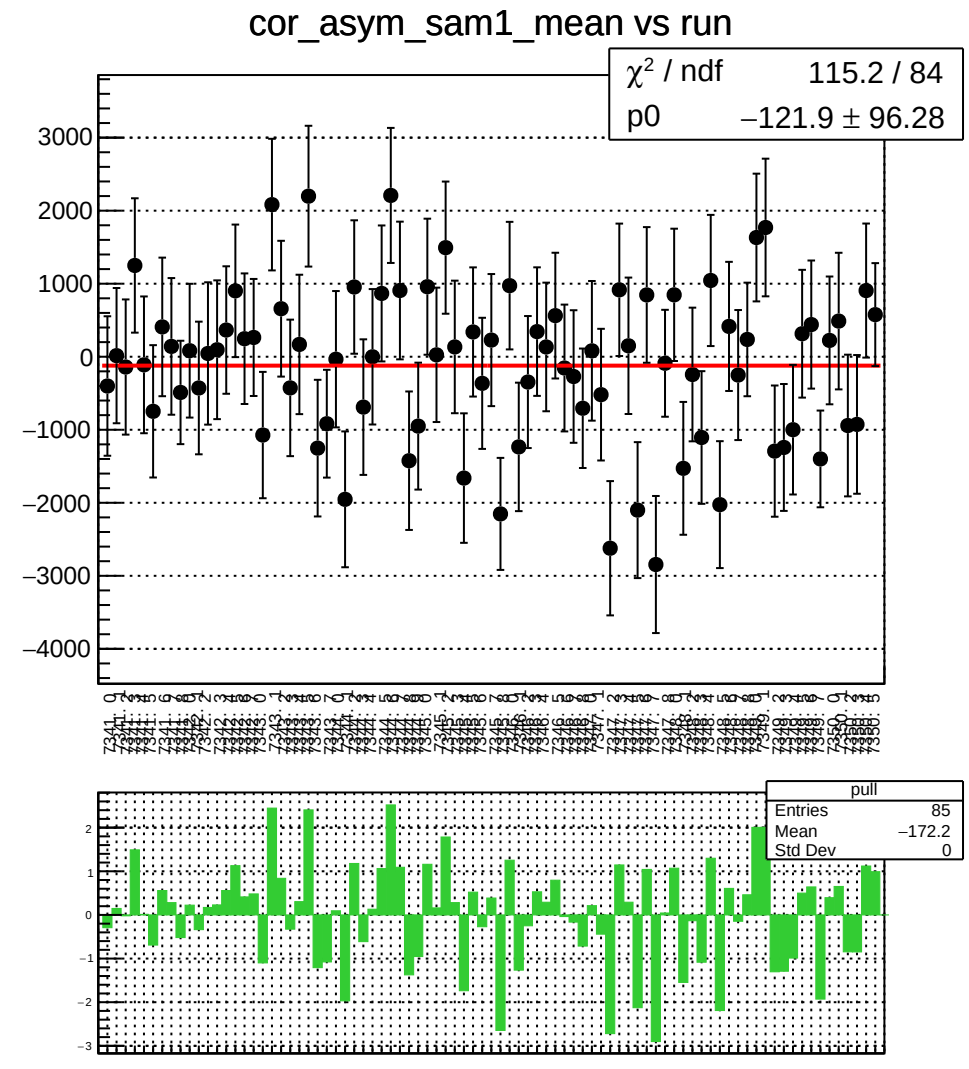

pull1D
Entries 85
Mean 0.01612
Std Dev 1.164

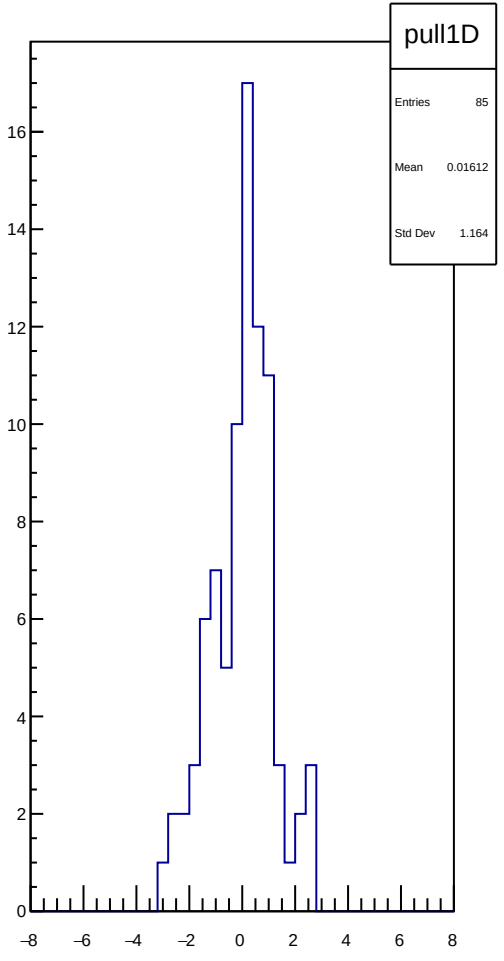

reg_asym_sam1_rms vs run
χ^2 / ndf 1523 / 84
p0 86.52 ± 0.06808
94
92
90
88
86
84
82
80

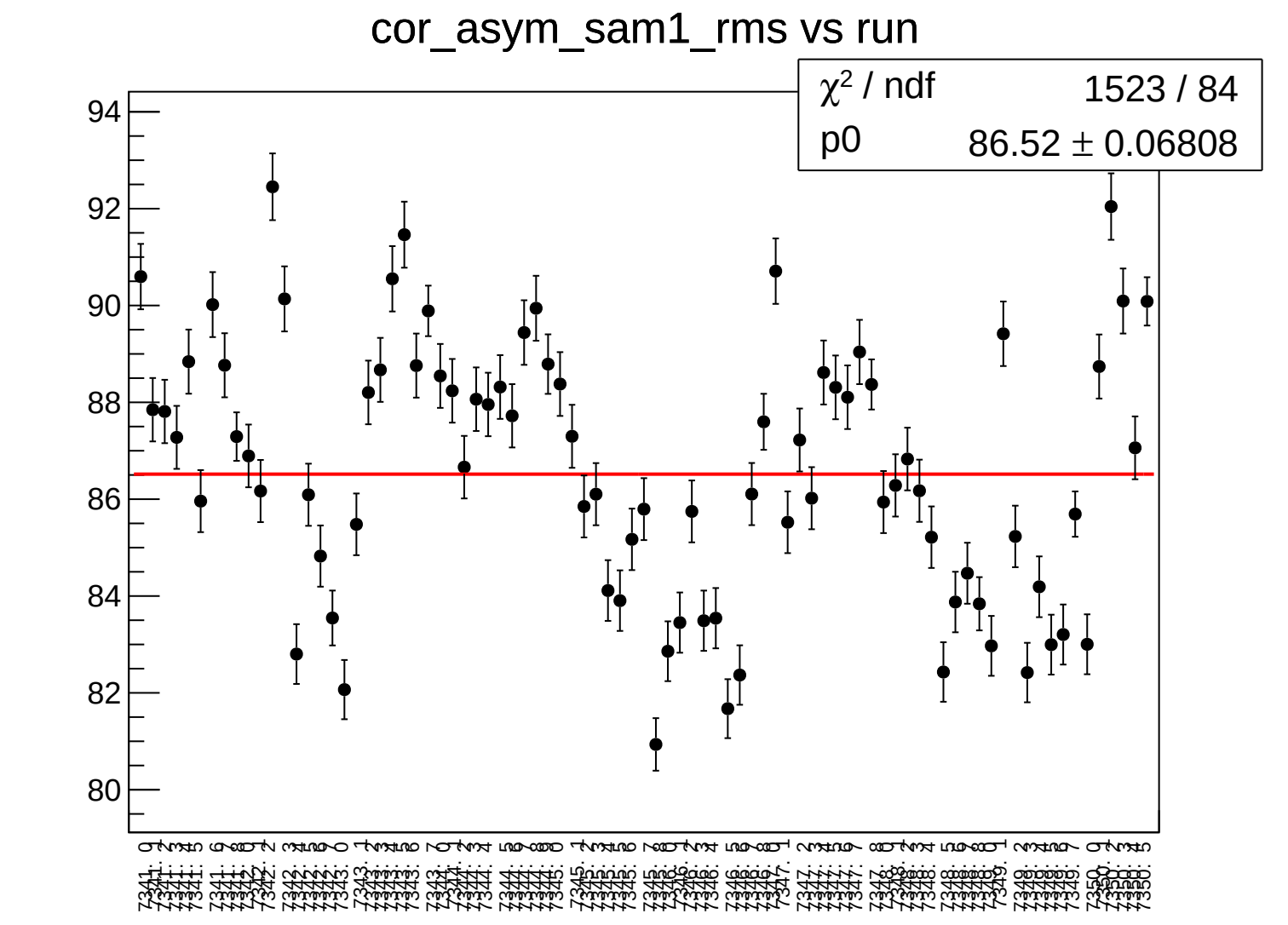

asym_sam1_reg_correction_mean vs run
χ² / ndf 75.33 / 84
p0 72.38 ± 370.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −97.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

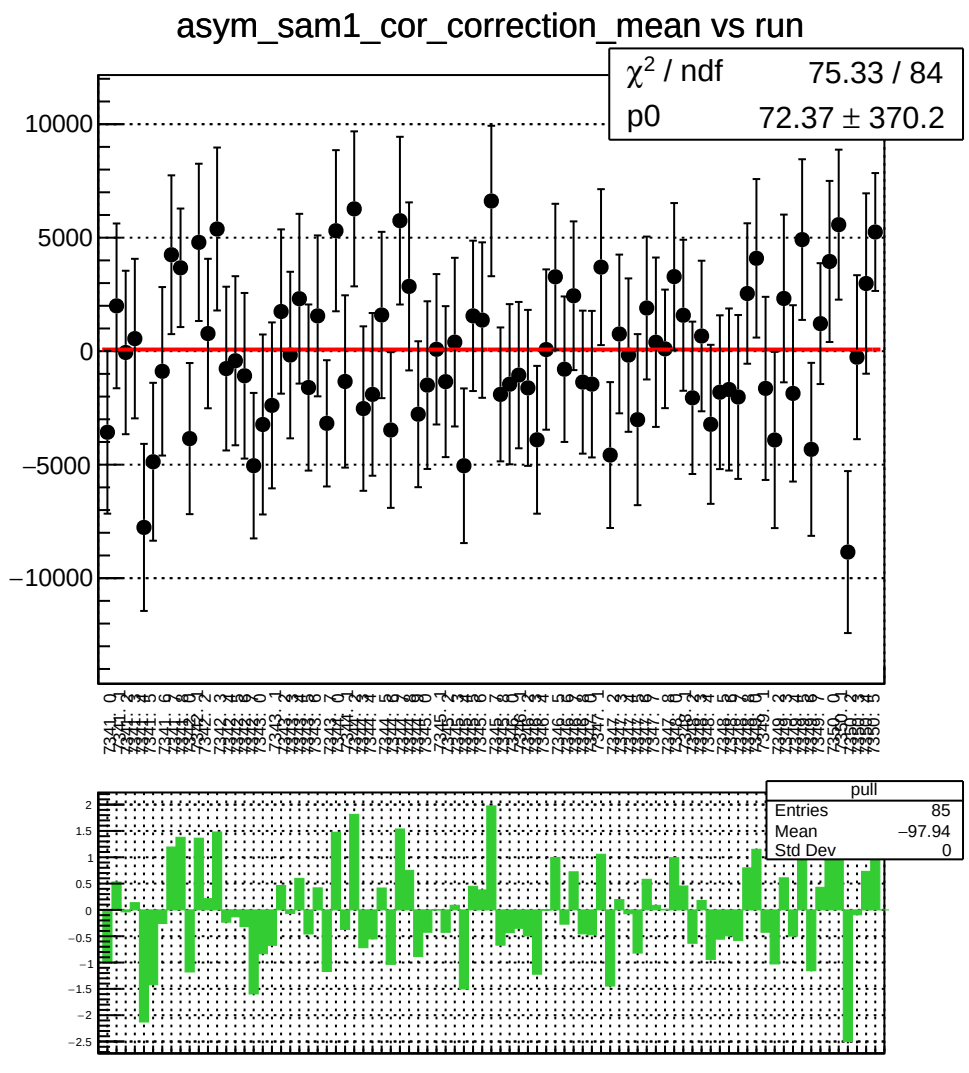

pull1D
Entries 85
Mean −0.01468
Std Dev 0.9413
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

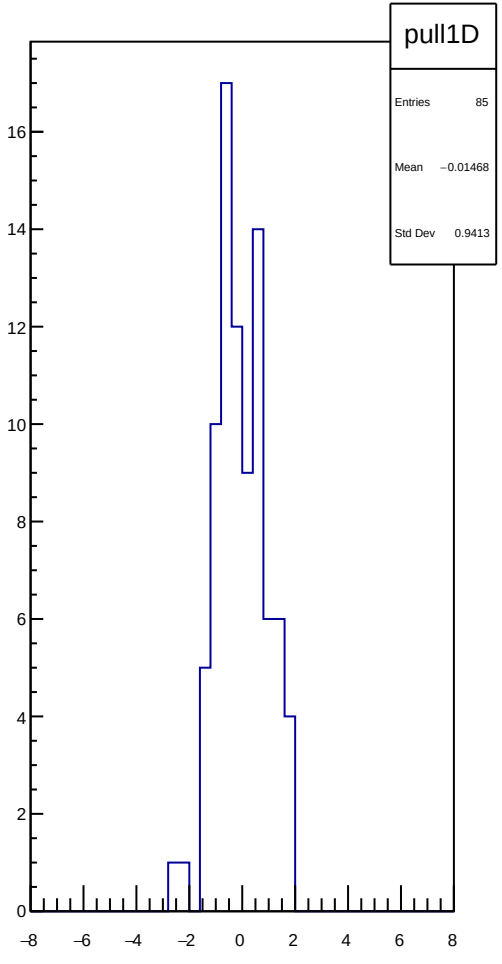

asym_sam1_reg_correction_rms vs run
χ² / ndf 4558 / 84
p0 332.4 ± 0.2618
380
360
340
320
300


cor_asym_sam1_mean vs run
χ² / ndf 115.2 / 84
p0 −121.9 ± 96.28
pull
Entries 85
Mean −172.2
Std Dev 0


pull1D
Entries 85
Mean 0.01612
Std Dev 1.164


cor_asym_sam1_rms vs run
χ^2 / ndf 1523 / 84
p0 86.52 ± 0.06808
94
92
90
88
86
84
82
80


asym_sam1_cor_correction_mean vs run
χ² / ndf 75.33 / 84
p0 72.37 ± 370.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −97.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 85
Mean −0.01468
Std Dev 0.9413
16
14
12
10
8
6
4
2
0
−8
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−4
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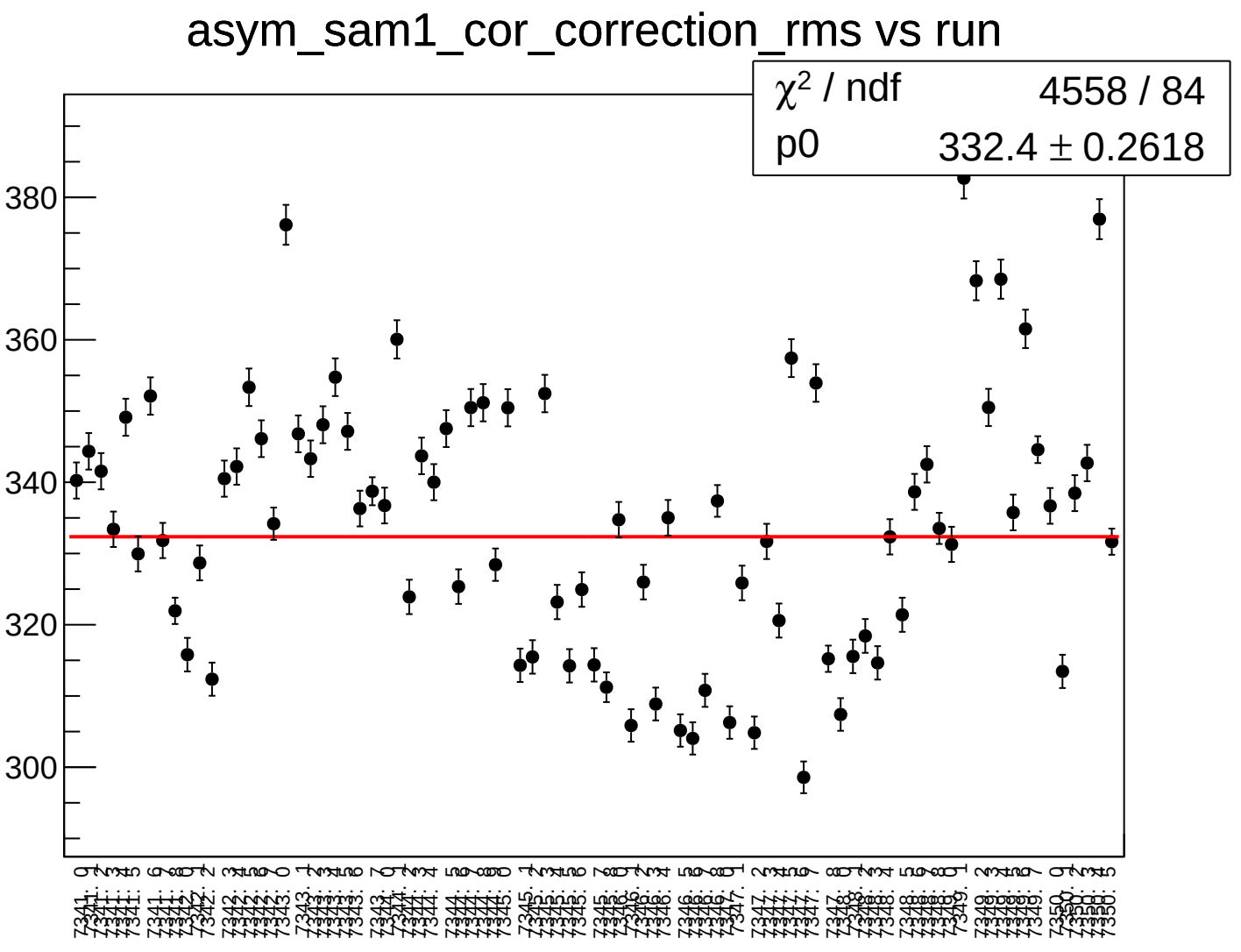
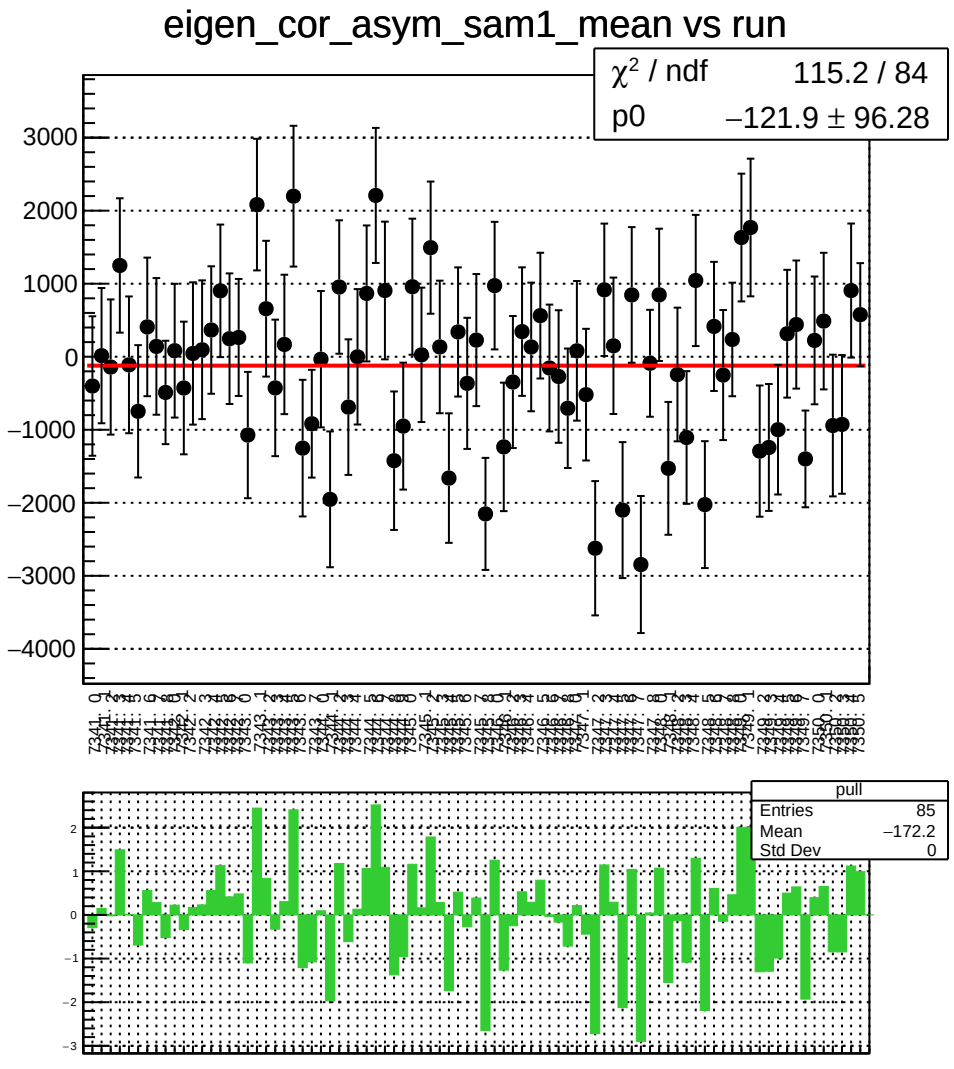
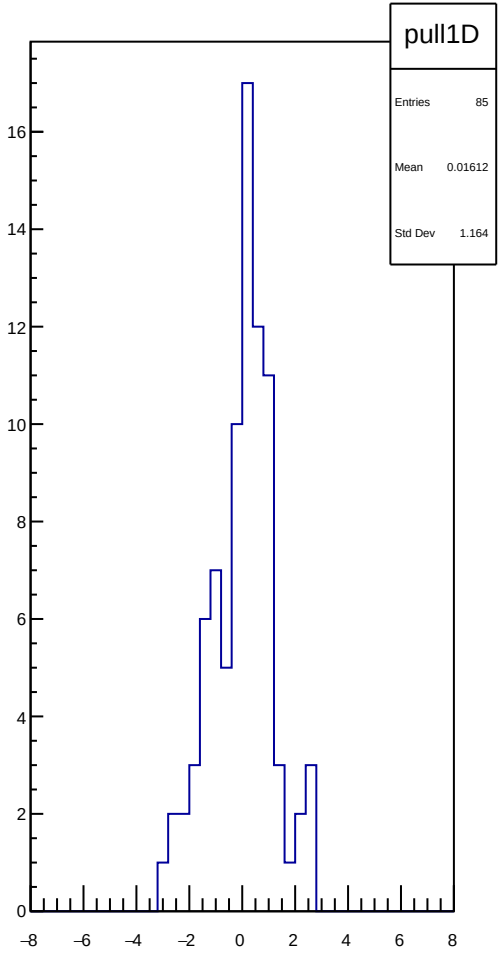
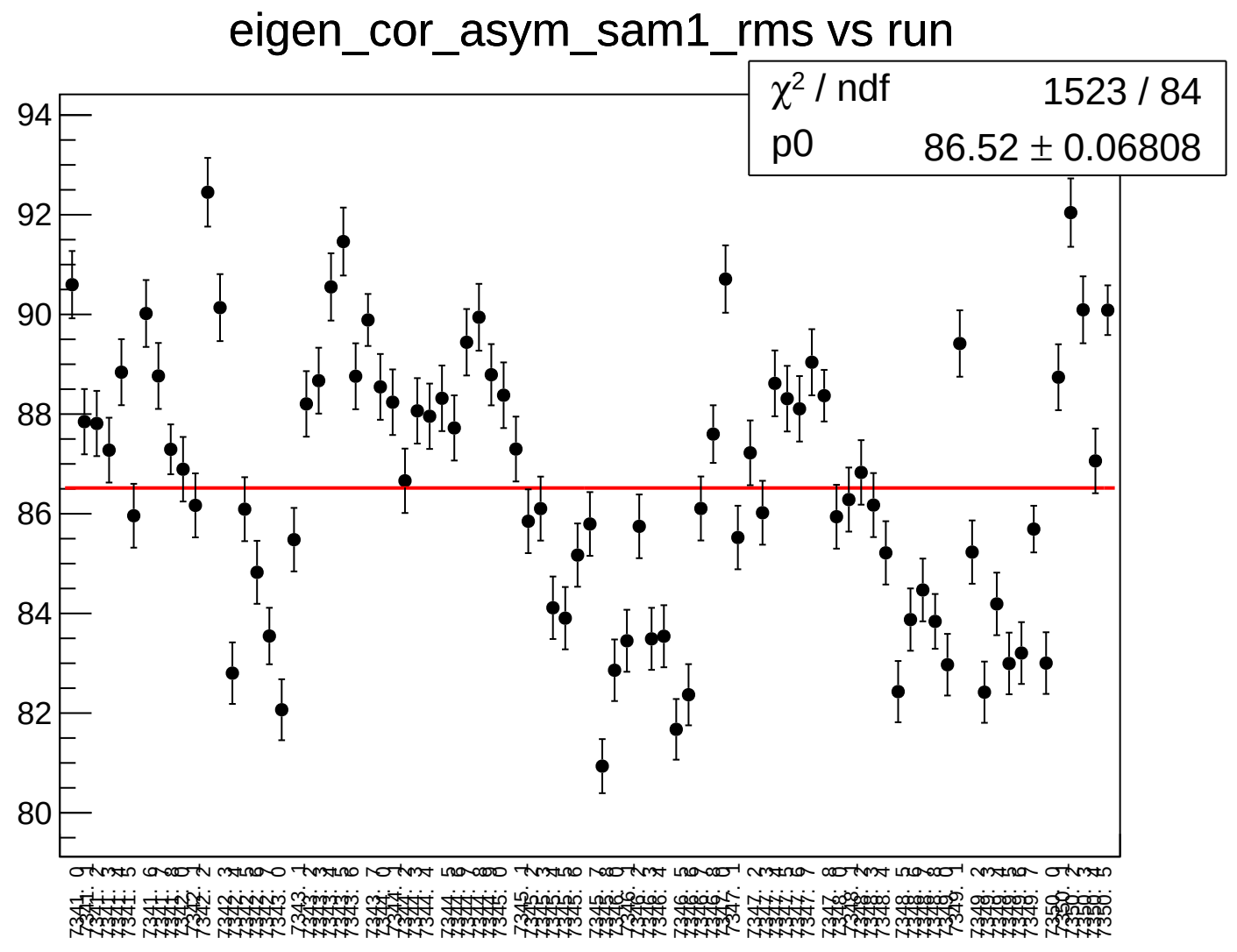
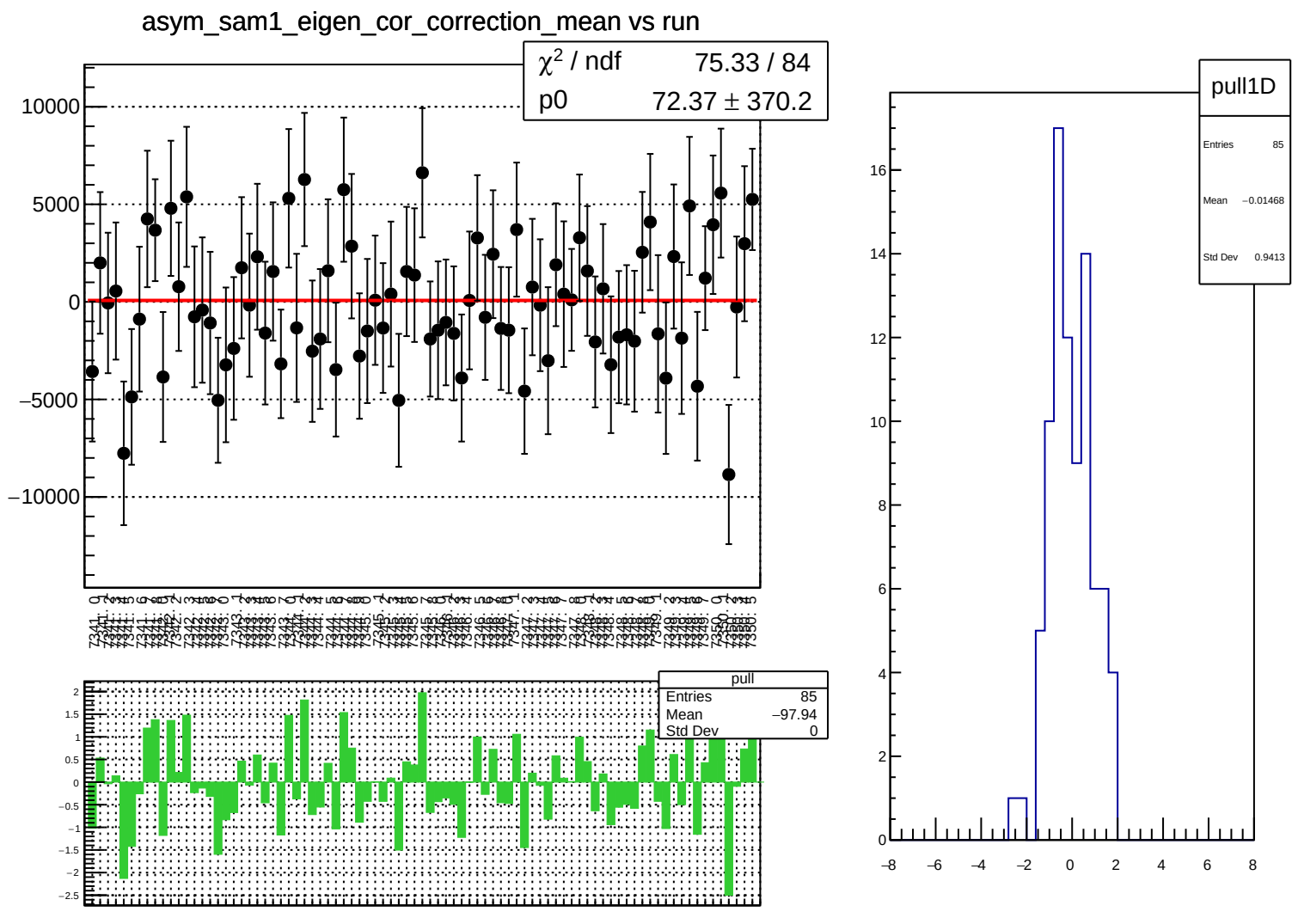
0
2
4
6
8

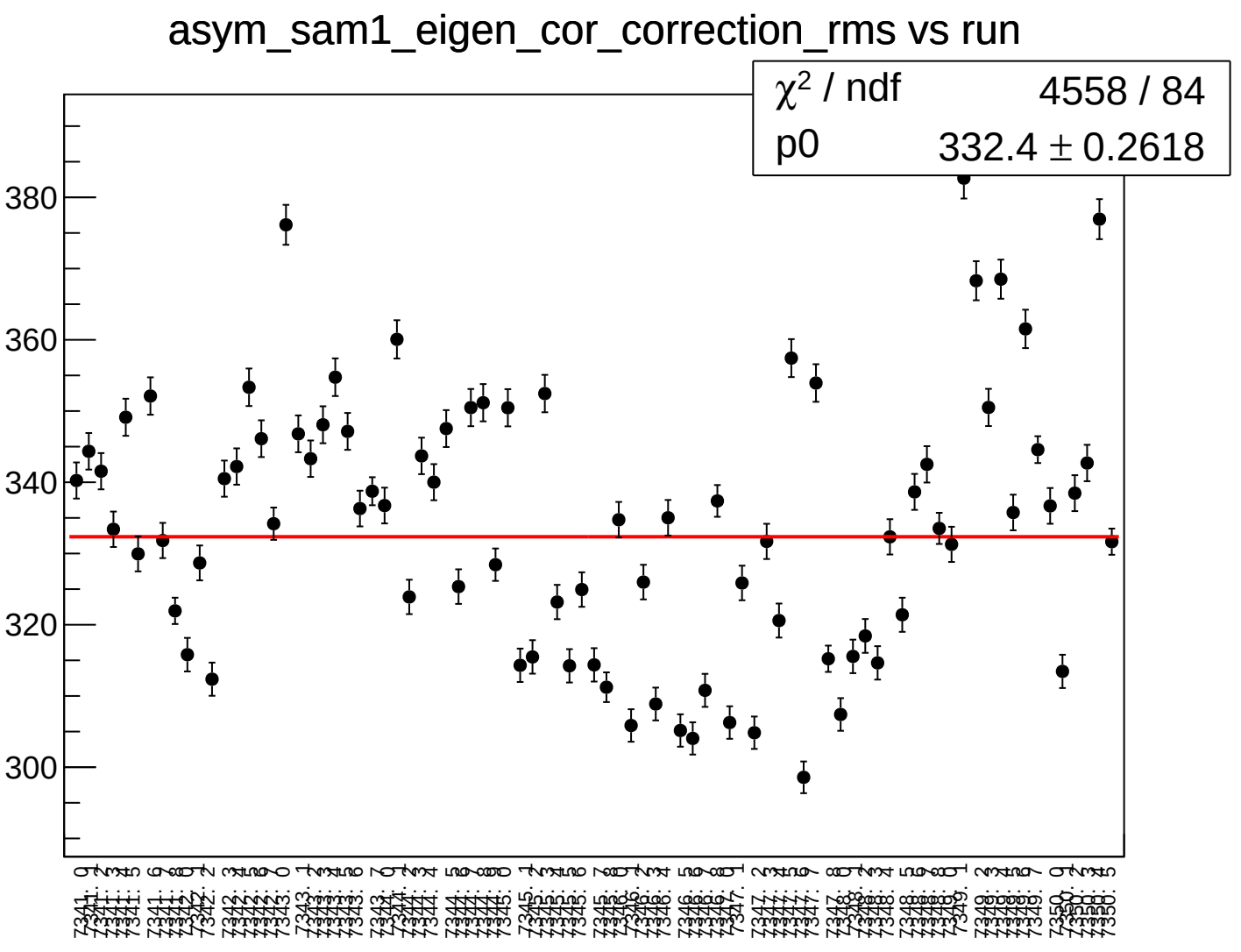

asym_sam1_cor_correction_rms vs run
χ² / ndf 4558 / 84
p0 332.4 ± 0.2618
380
360
340
320
300

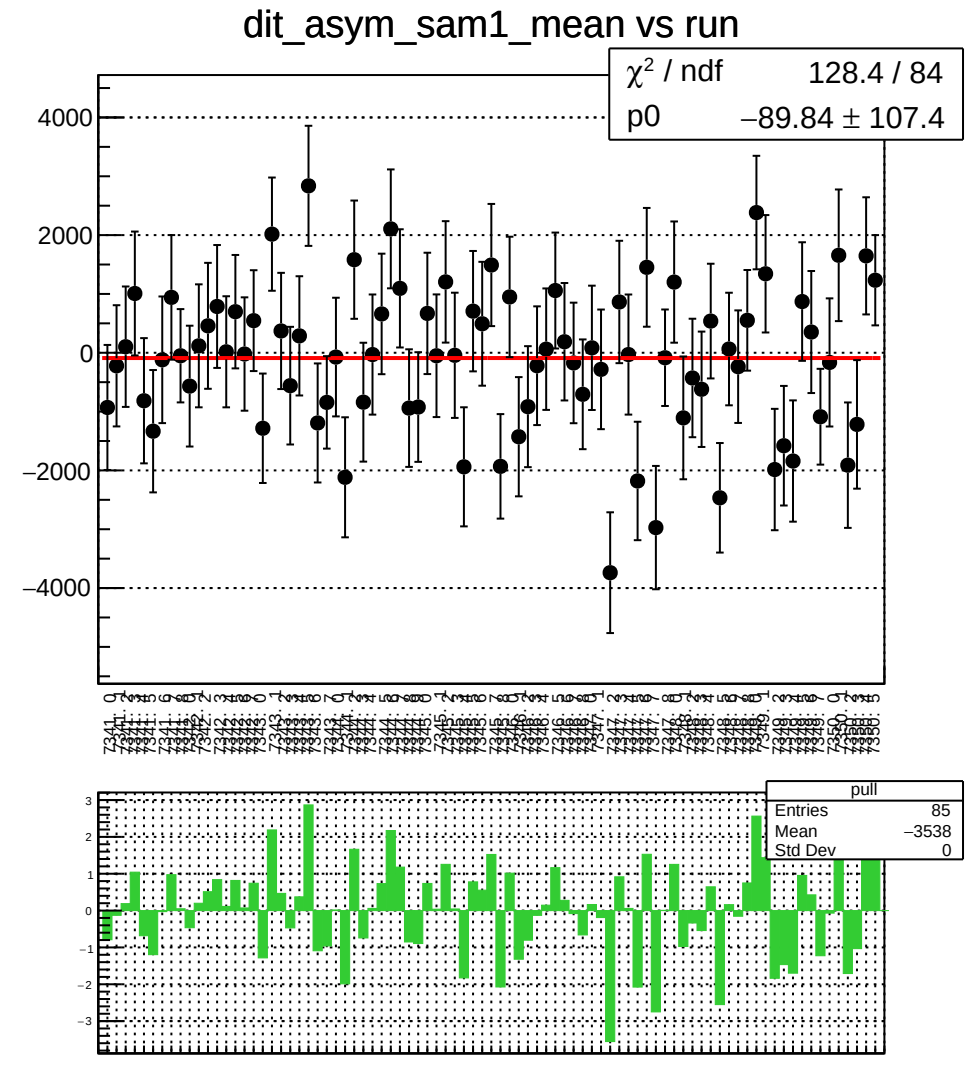

eigen_cor_asym_sam1_mean vs run
χ² / ndf 115.2 / 84
p0 −121.9 ± 96.28
pull
Entries 85
Mean −172.2
Std Dev 0

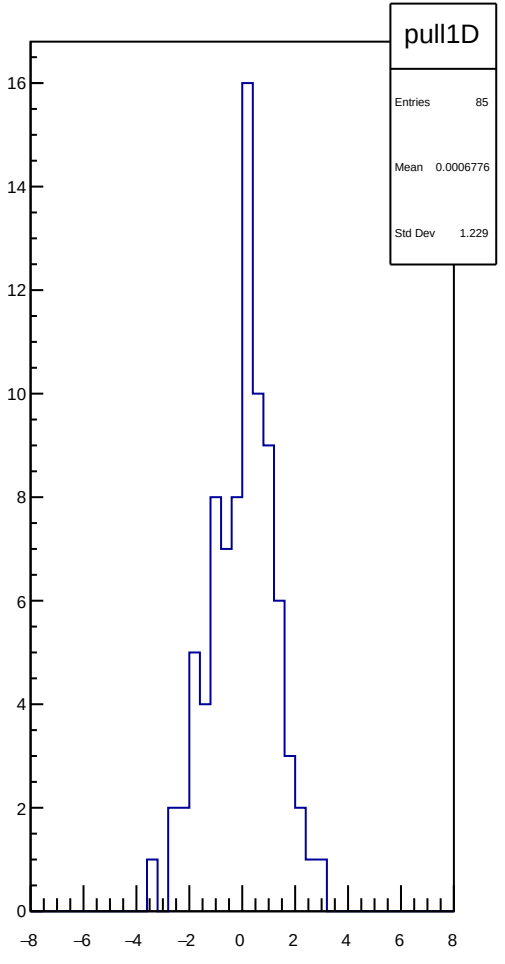

pull1D
Entries 85
Mean 0.01612
Std Dev 1.164

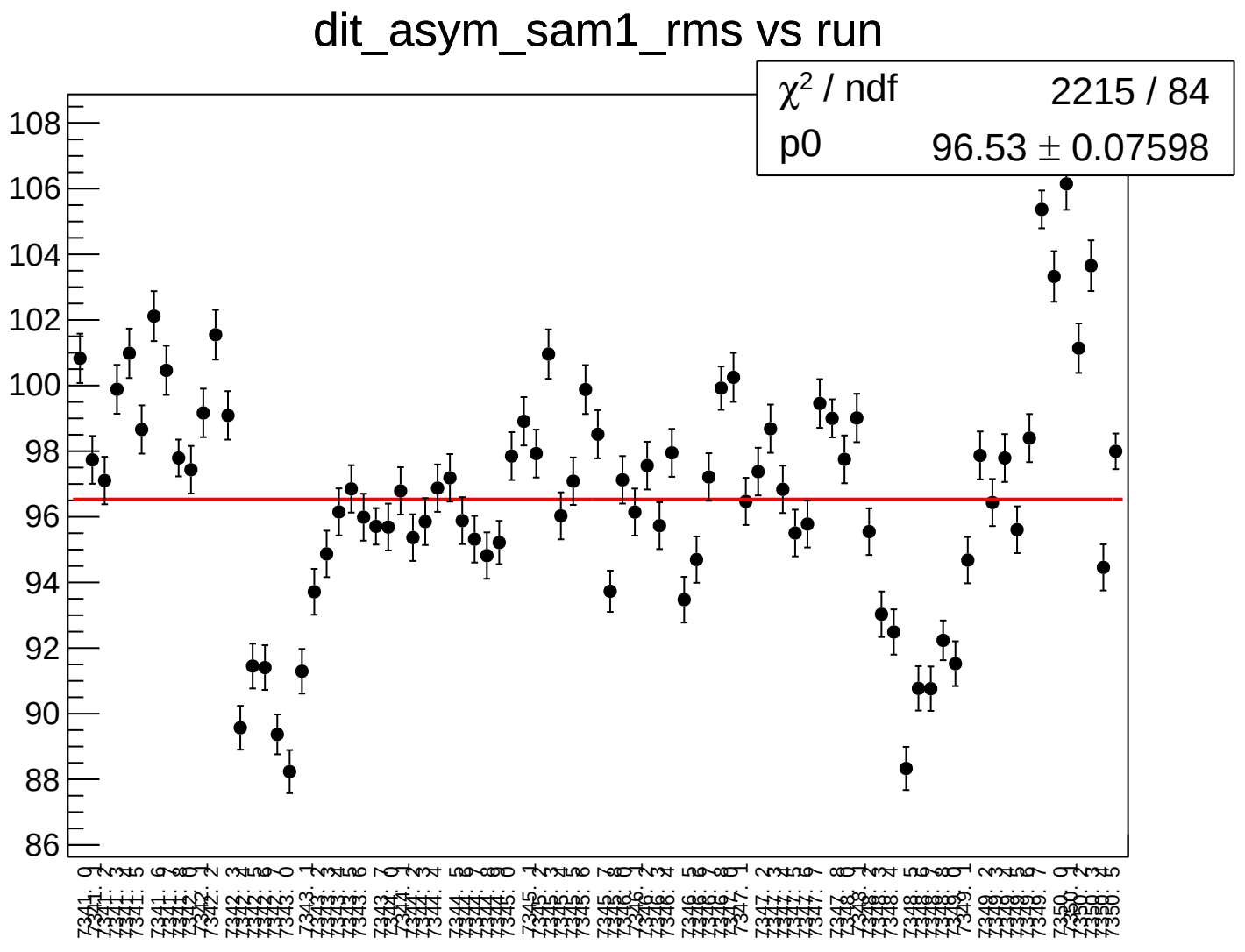

eigen_cor_asym_sam1_rms vs run
χ² / ndf 1523 / 84
p0 86.52 ± 0.06808
94
92
90
88
86
84
82
80

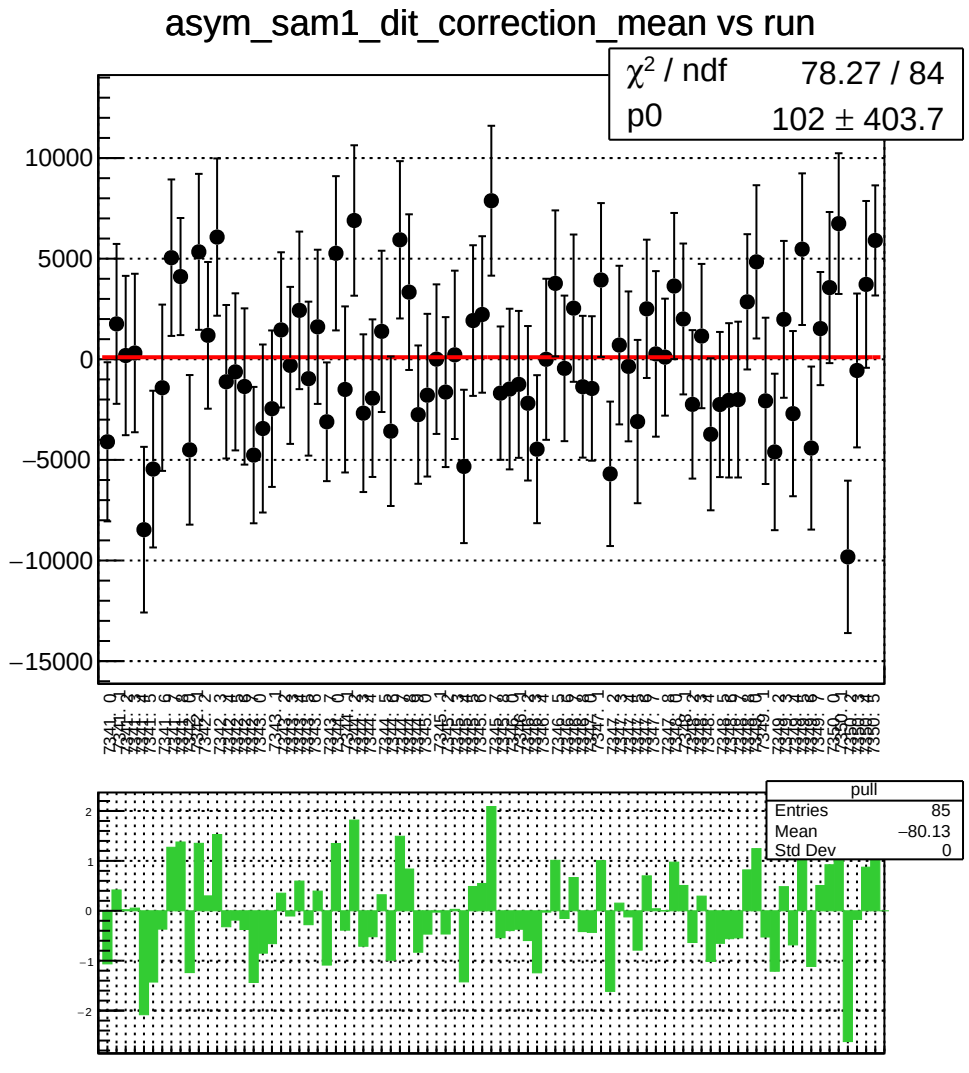

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 75.33 / 84
p0 72.37 ± 370.2
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −97.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean −0.01468
Std Dev 0.9413
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

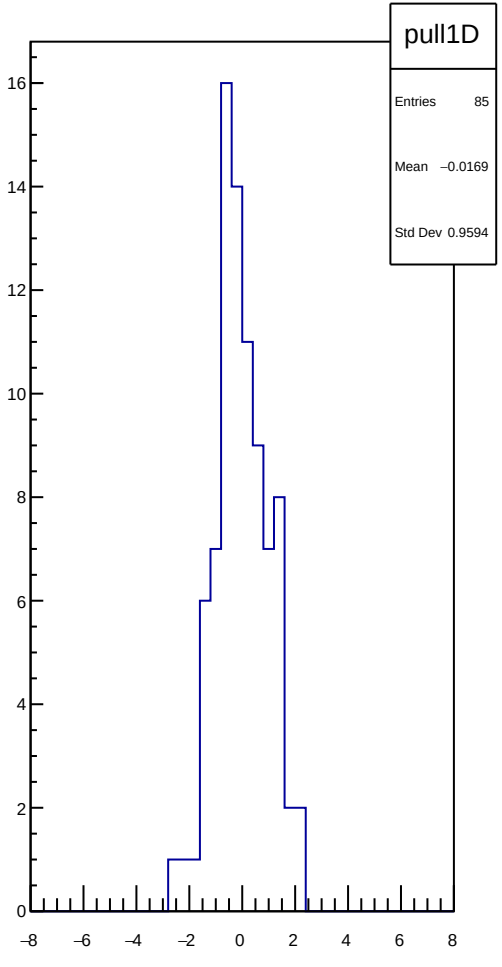

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 4558 / 84
p0 332.4 ± 0.2618
380
360
340
320
300

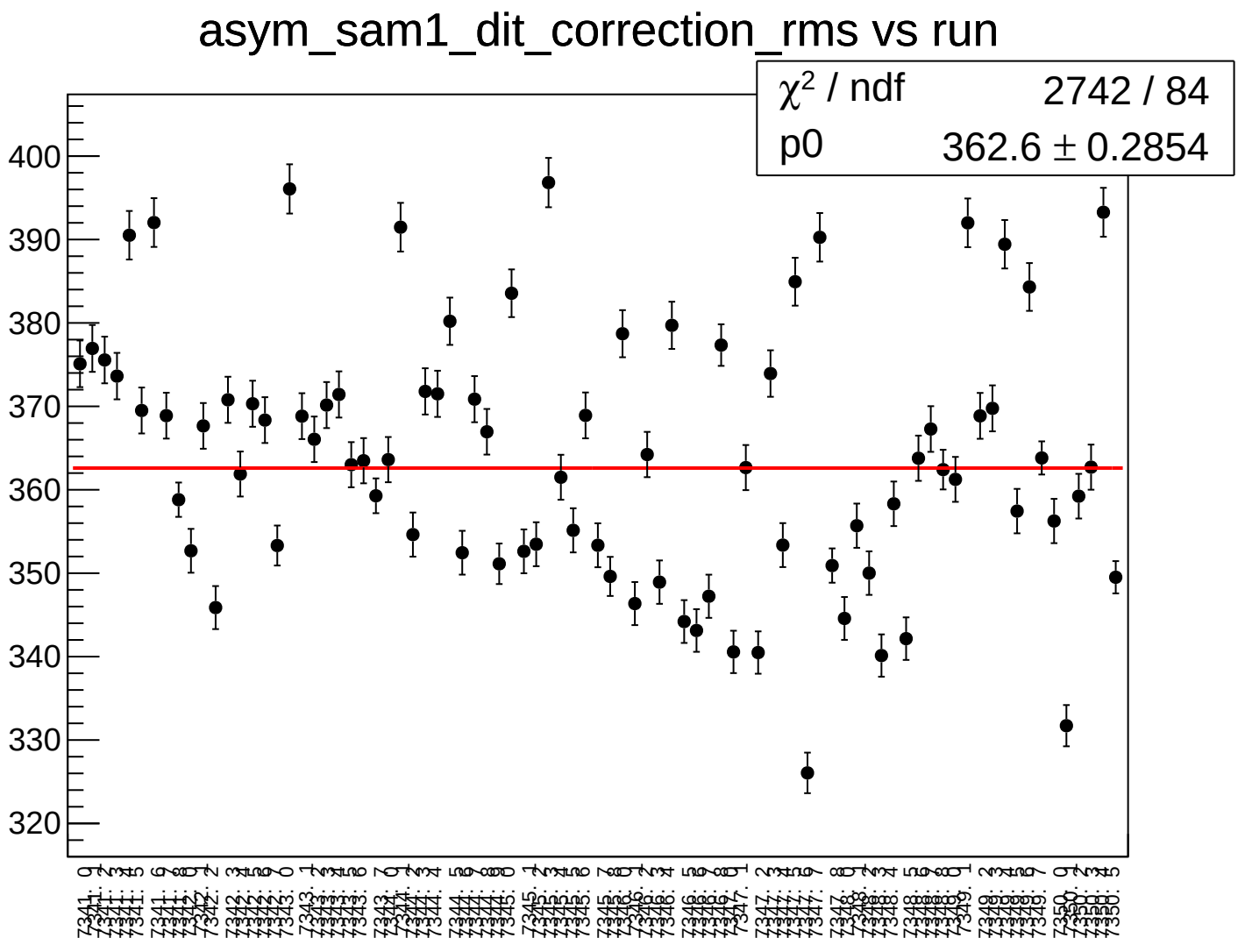

dit_asym_sam1_mean vs run
χ² / ndf 128.4 / 84
p0 −89.84 ± 107.4
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −3538
Std Dev 0
3
2
1
0
−1
−2
−3

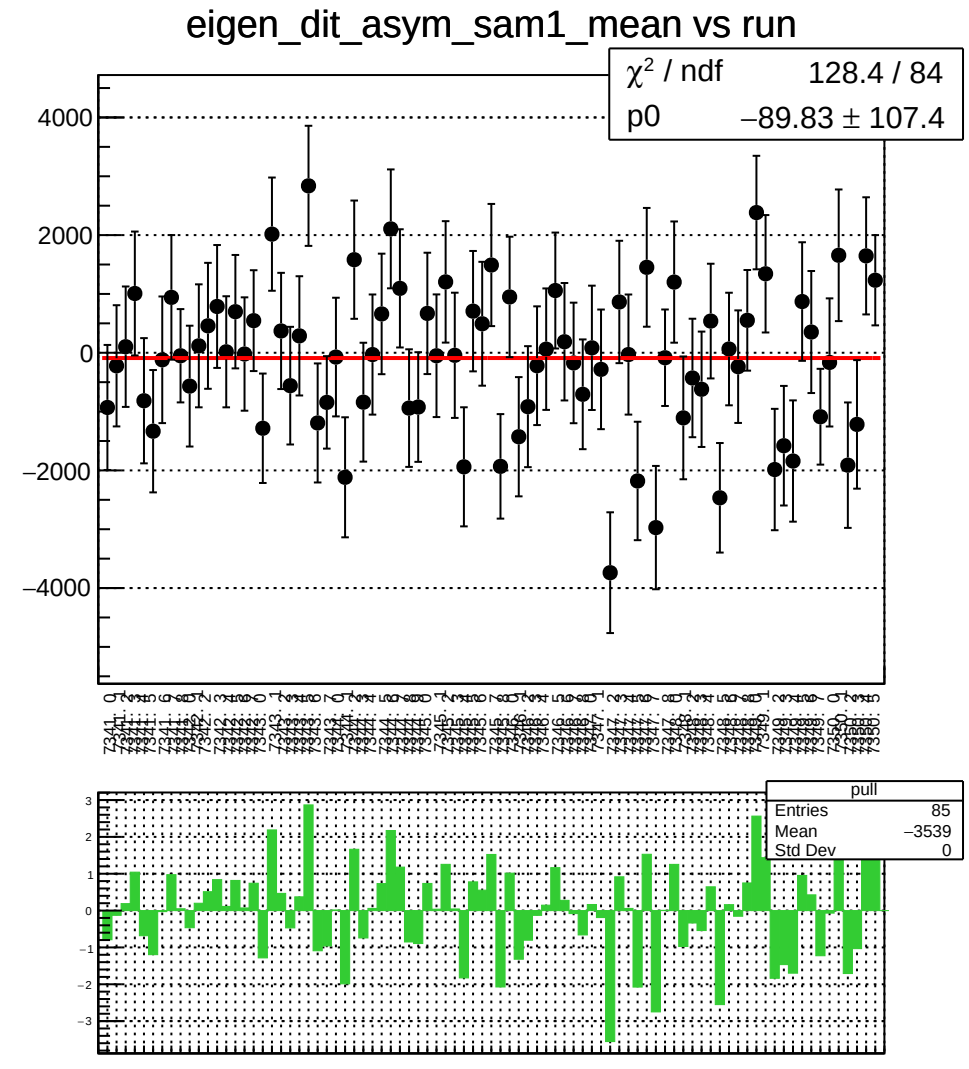

pull1D
Entries 85
Mean 0.0006776
Std Dev 1.229
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

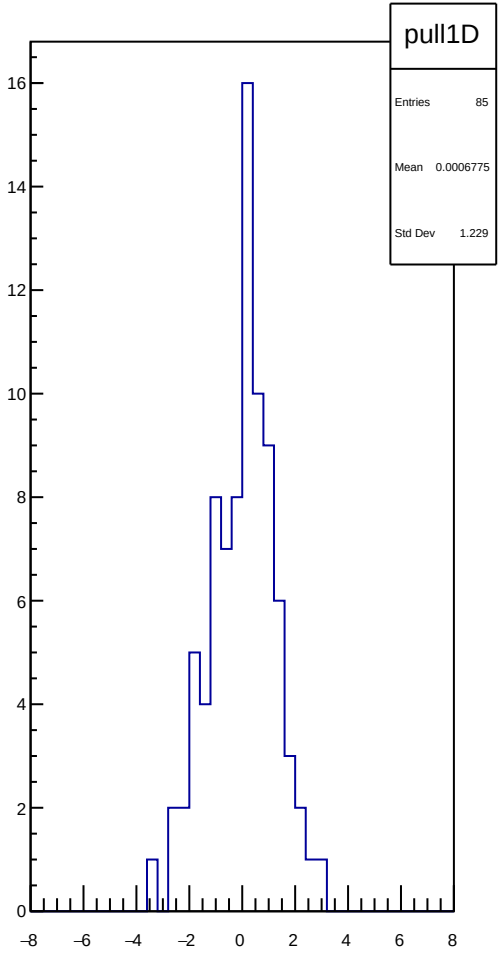

dit_asym_sam1_rms vs run
χ² / ndf 2215 / 84
p0 96.53 ± 0.07598
108
106
104
102
100
98
96
94
92
90
88
86

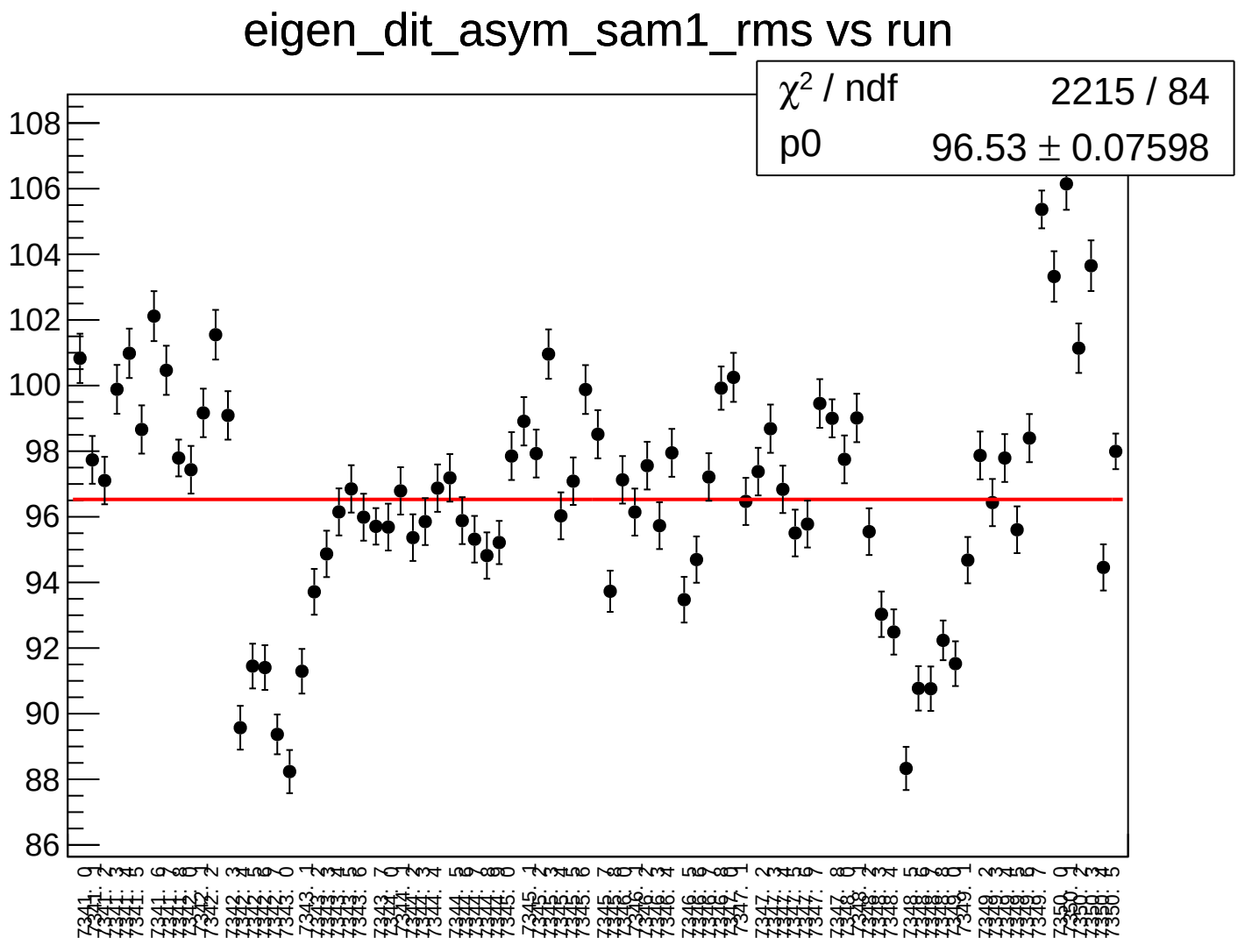

asym_sam1_dit_correction_mean vs run
χ² / ndf 78.27 / 84
p0 102 ± 403.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −80.13
Std Dev 0
2
1
0
−1
−2

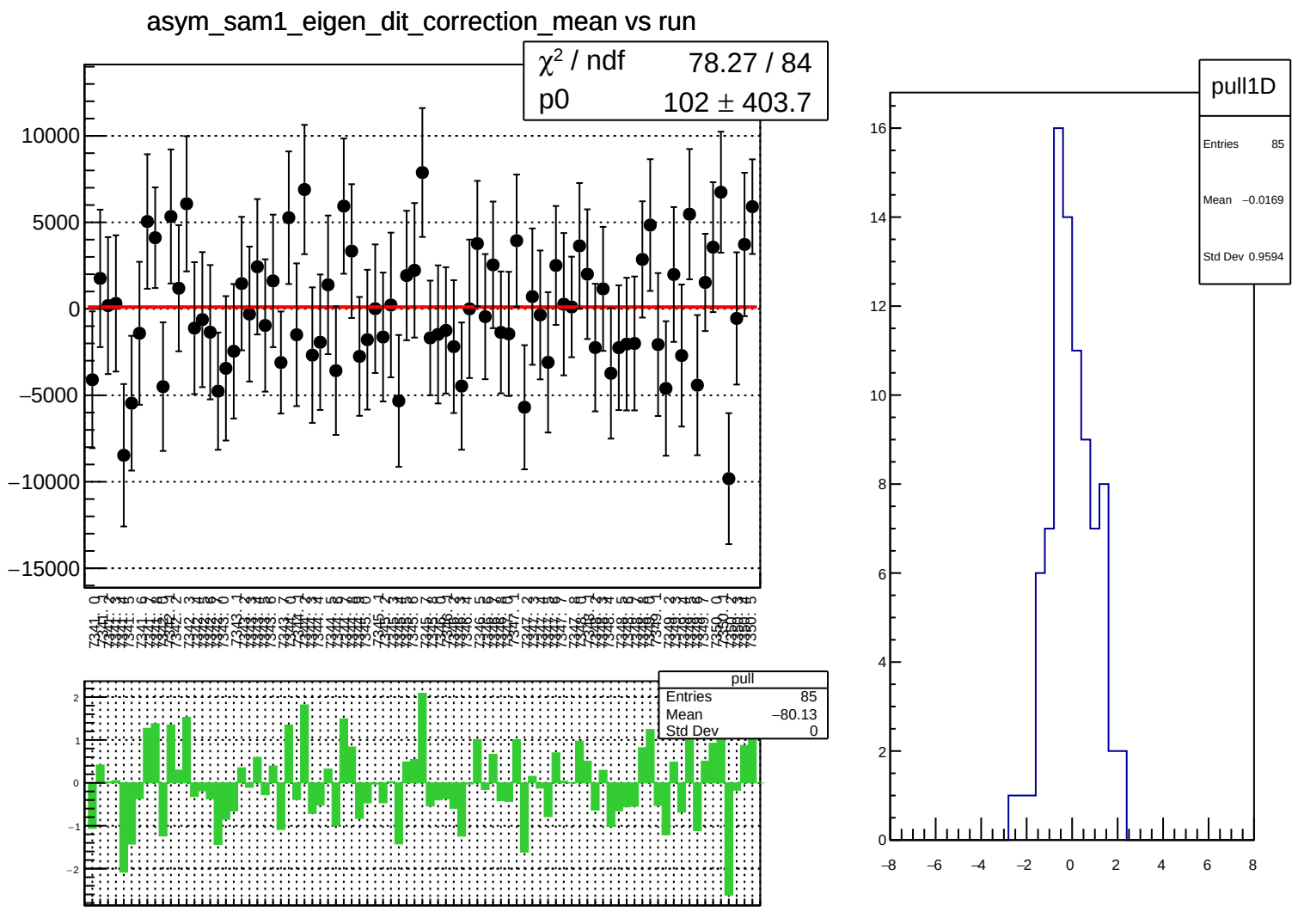

pull1D
Entries 85
Mean −0.0169
Std Dev 0.9594
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

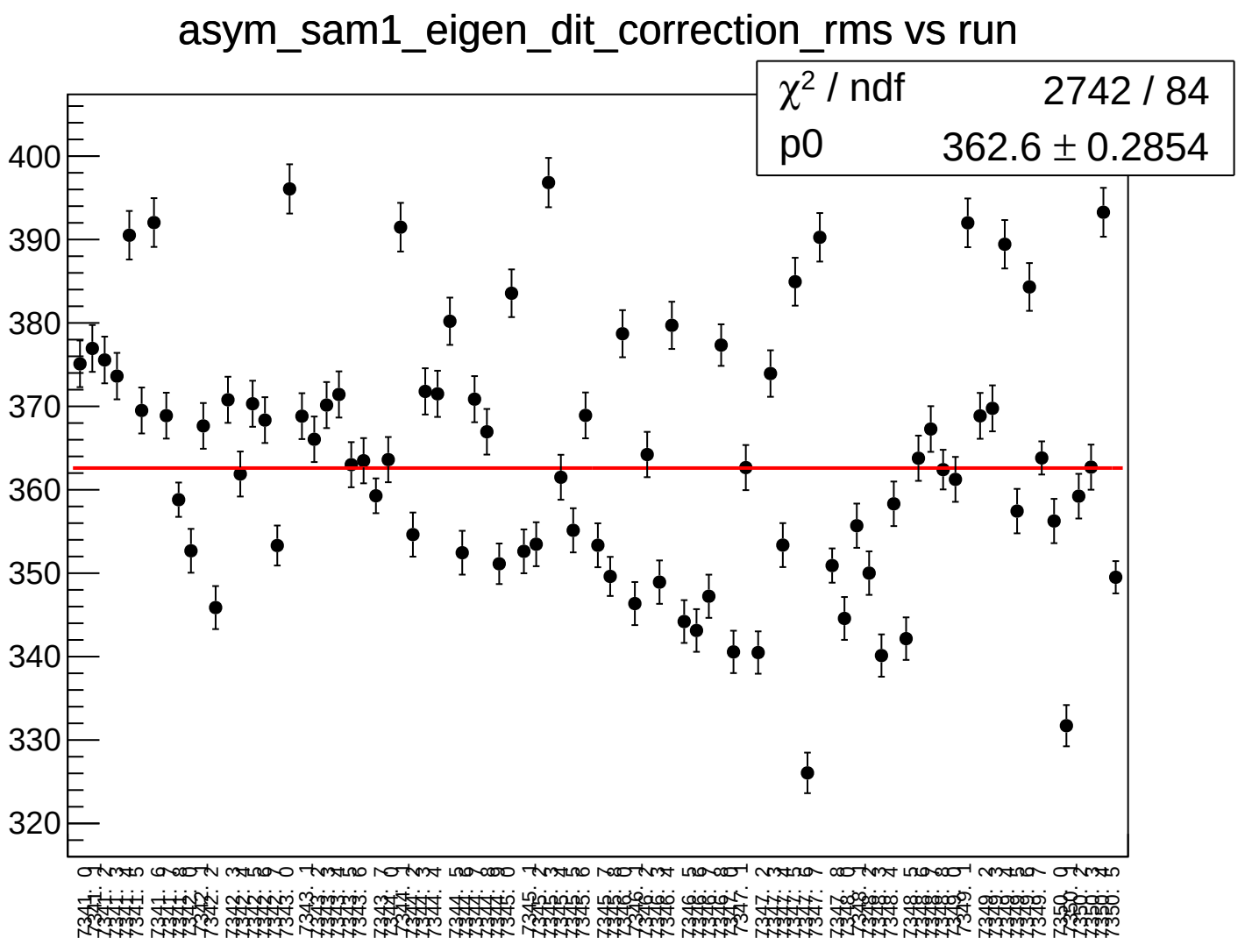

asym_sam1_dit_correction_rms vs run
χ² / ndf 2742 / 84
p0 362.6 ± 0.2854
400
390
380
370
360
350
340
330
320

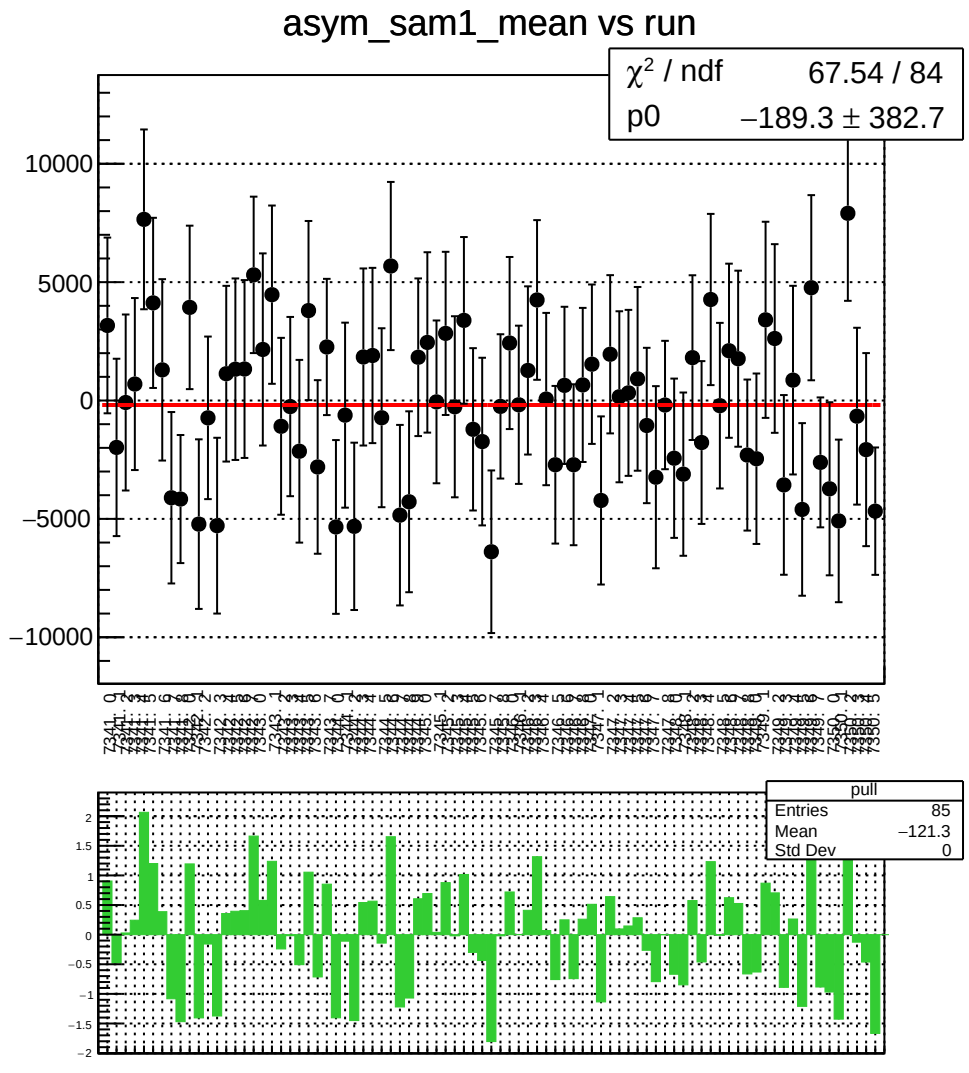

eigen_dit_asym_sam1_mean vs run
χ² / ndf 128.4 / 84
p0 −89.83 ± 107.4
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −3539
Std Dev 0
3
2
1
0
−1
−2
−3

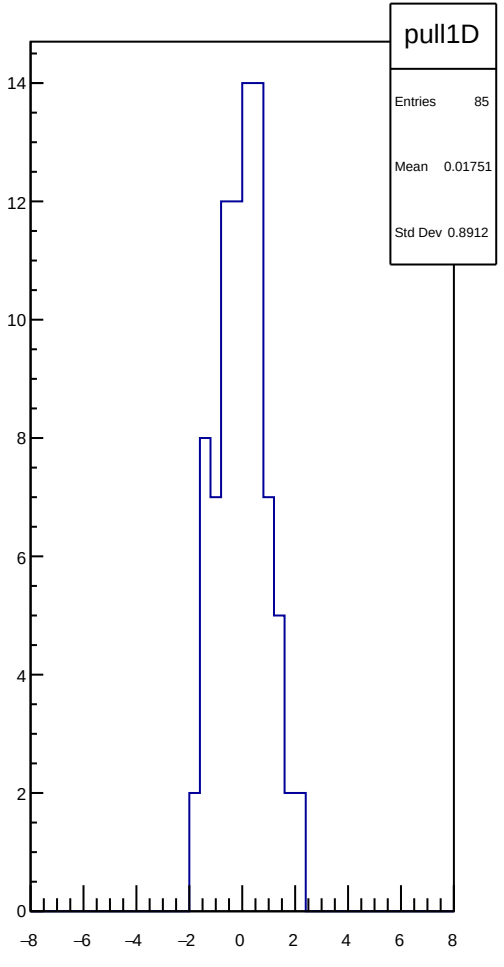

pull1D
Entries 85
Mean 0.0006775
Std Dev 1.229
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

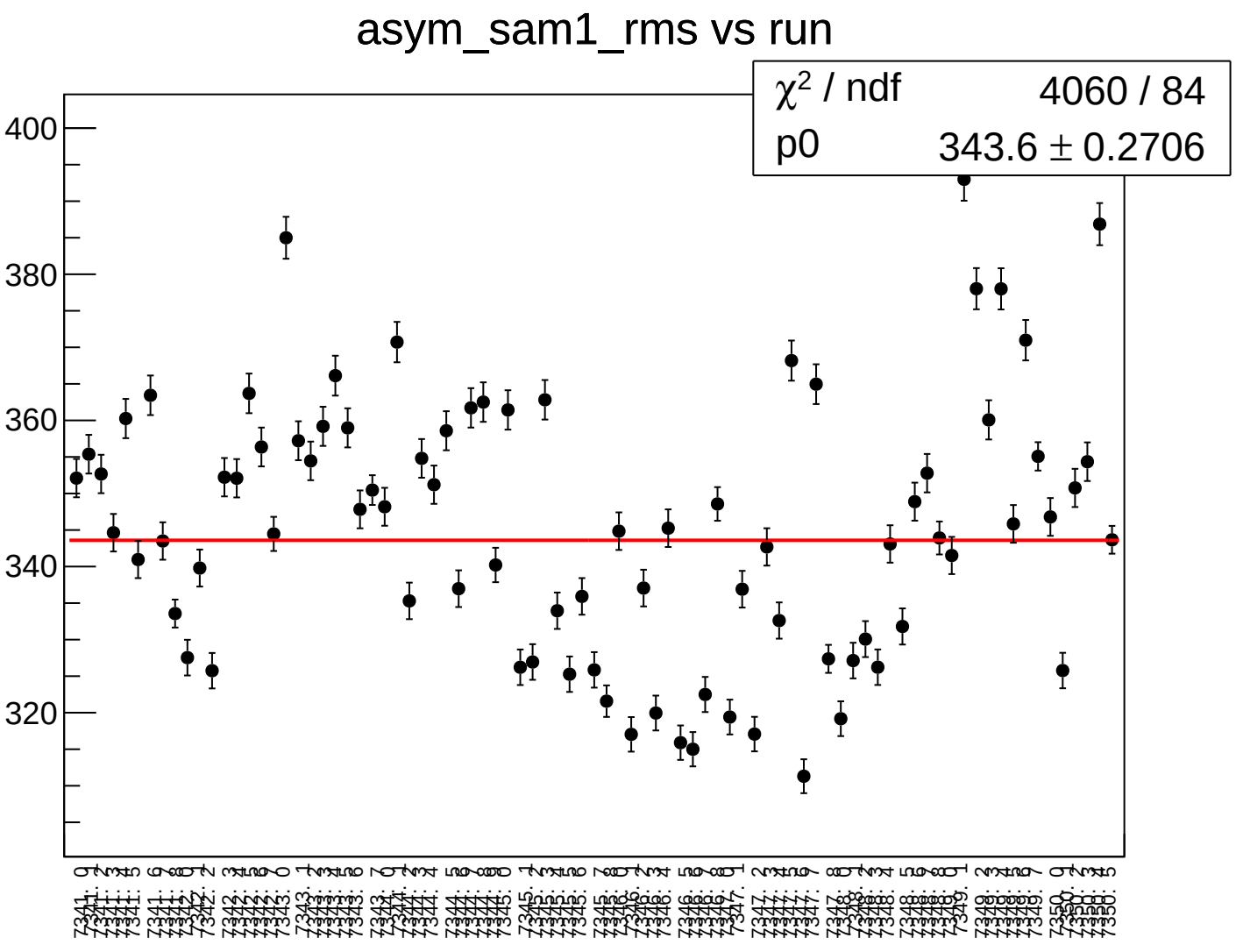

eigen_dit_asym_sam1_rms vs run
χ² / ndf 2215 / 84
p0 96.53 ± 0.07598
108
106
104
102
100
98
96
94
92
90
88
86

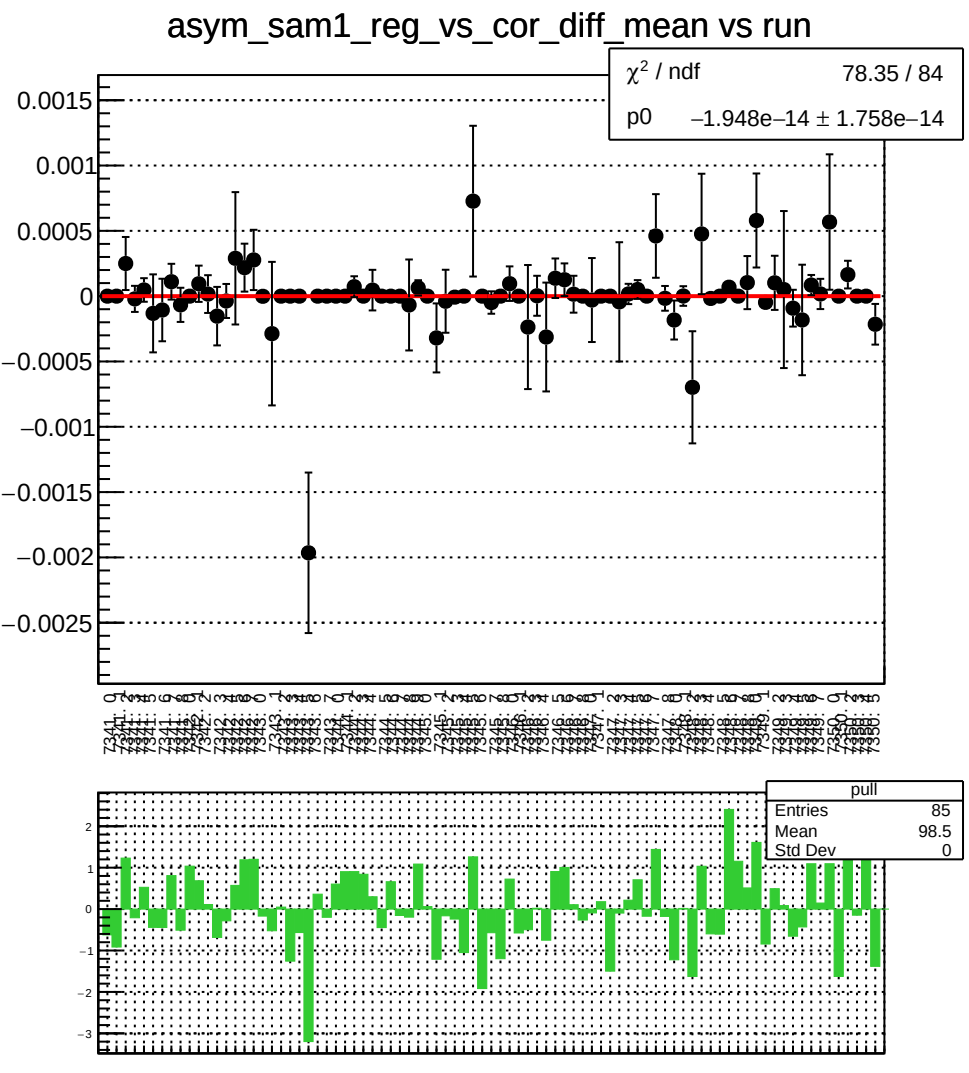

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 78.27 / 84
p0 102 ± 403.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −80.13
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.0169
Std Dev 0.9594
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

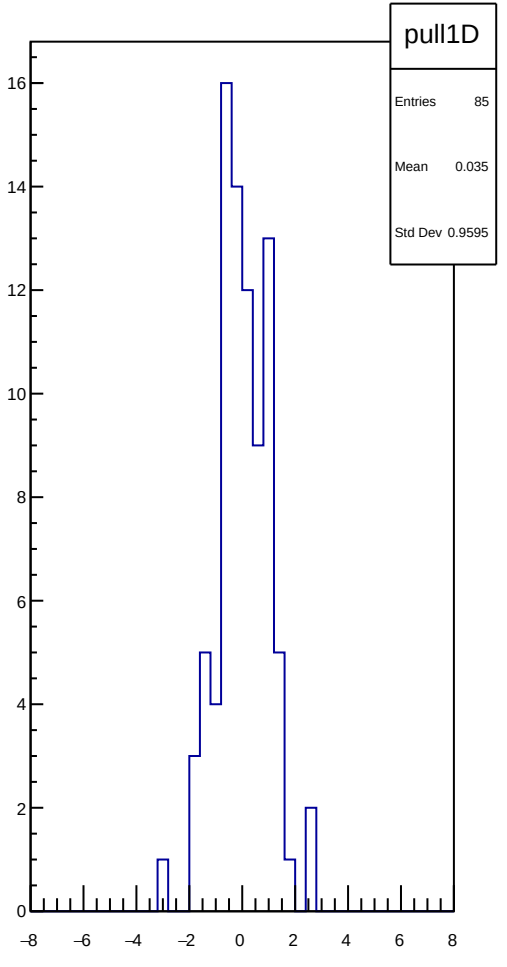

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2742 / 84
p0 362.6 ± 0.2854
400
390
380
370
360
350
340
330
320

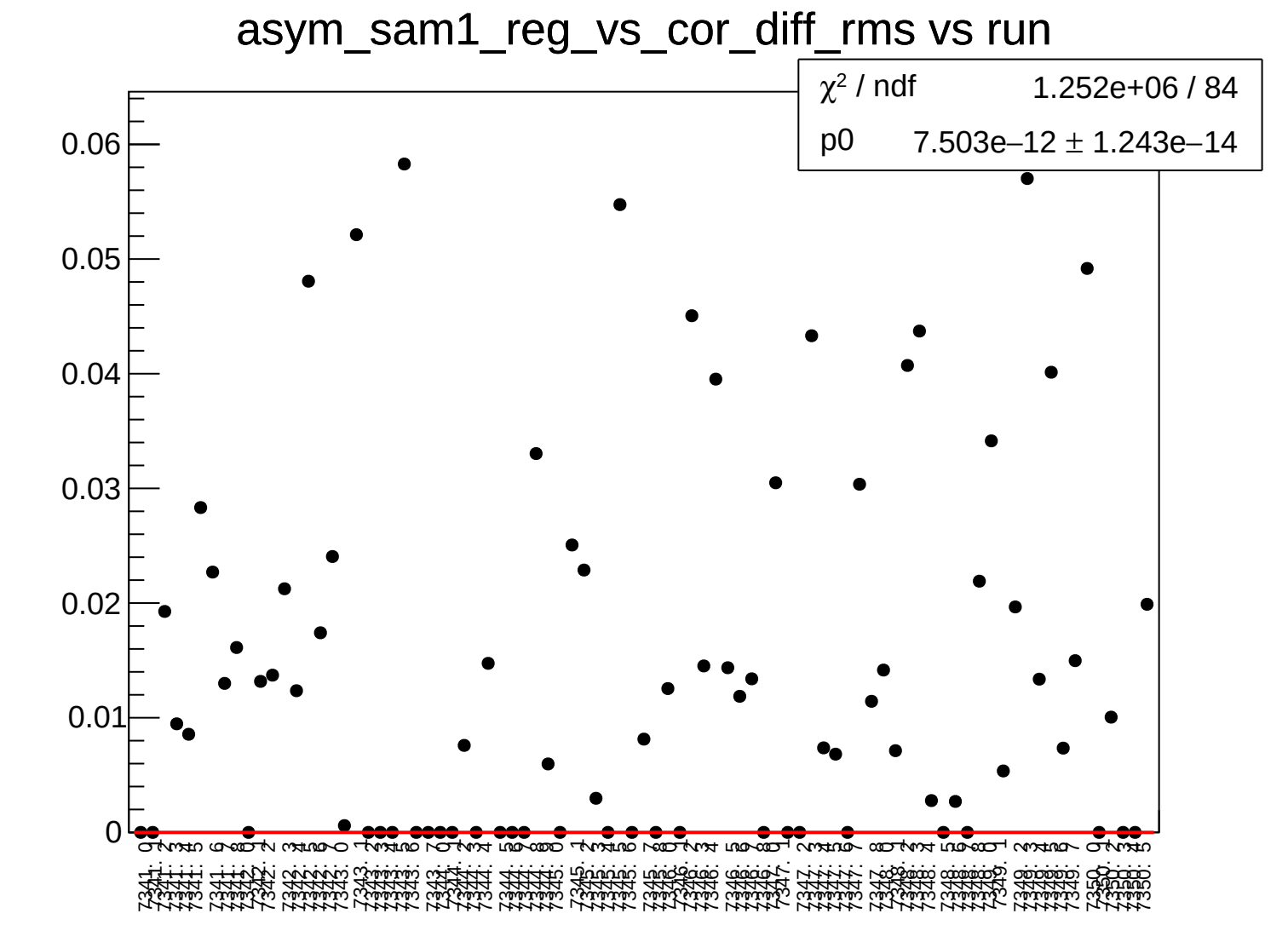

asym_sam1_mean vs run
χ² / ndf 67.54 / 84
p0 −189.3 ± 382.7
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −121.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

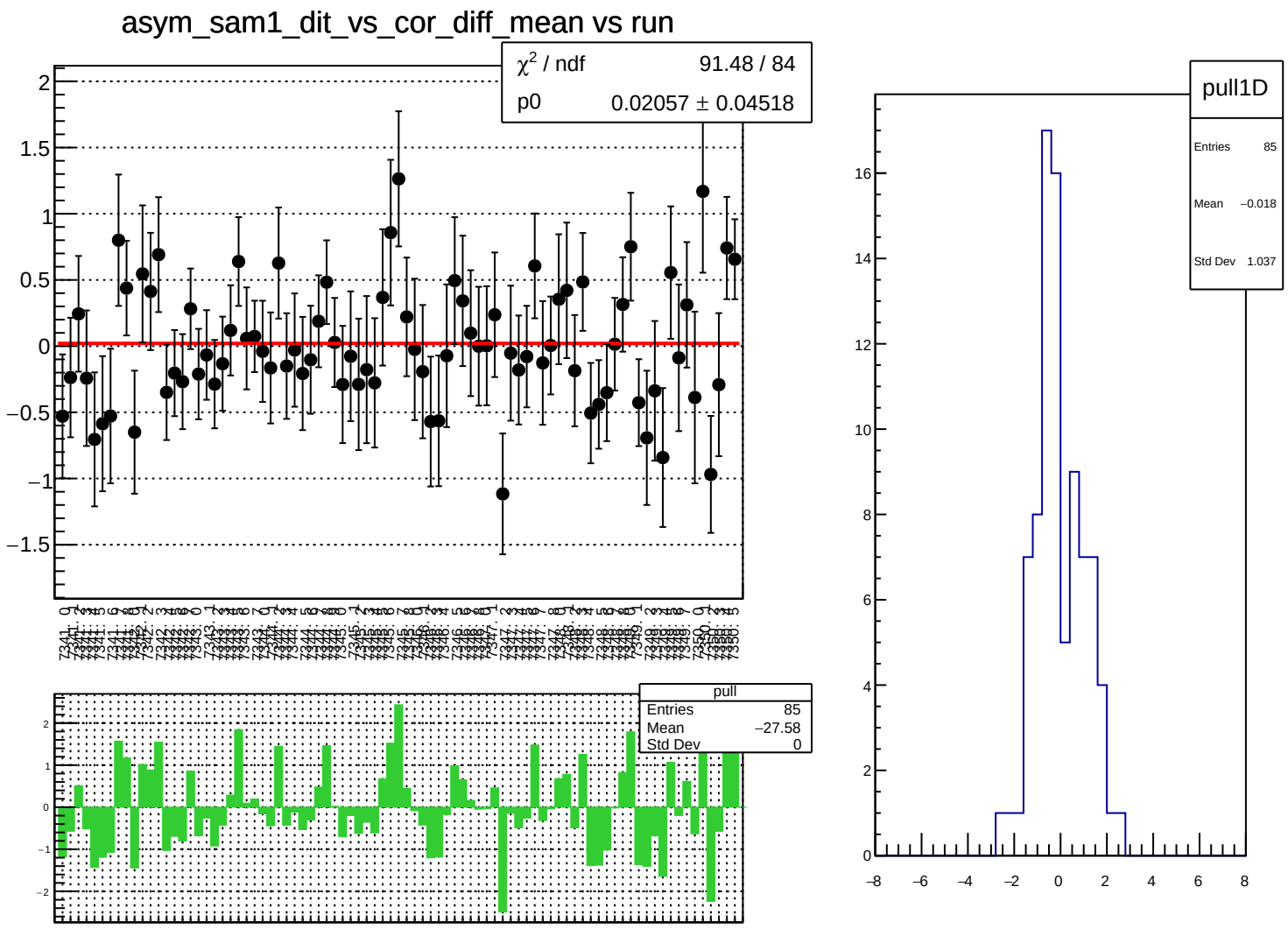

pull1D
Entries 85
Mean 0.01751
Std Dev 0.8912
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

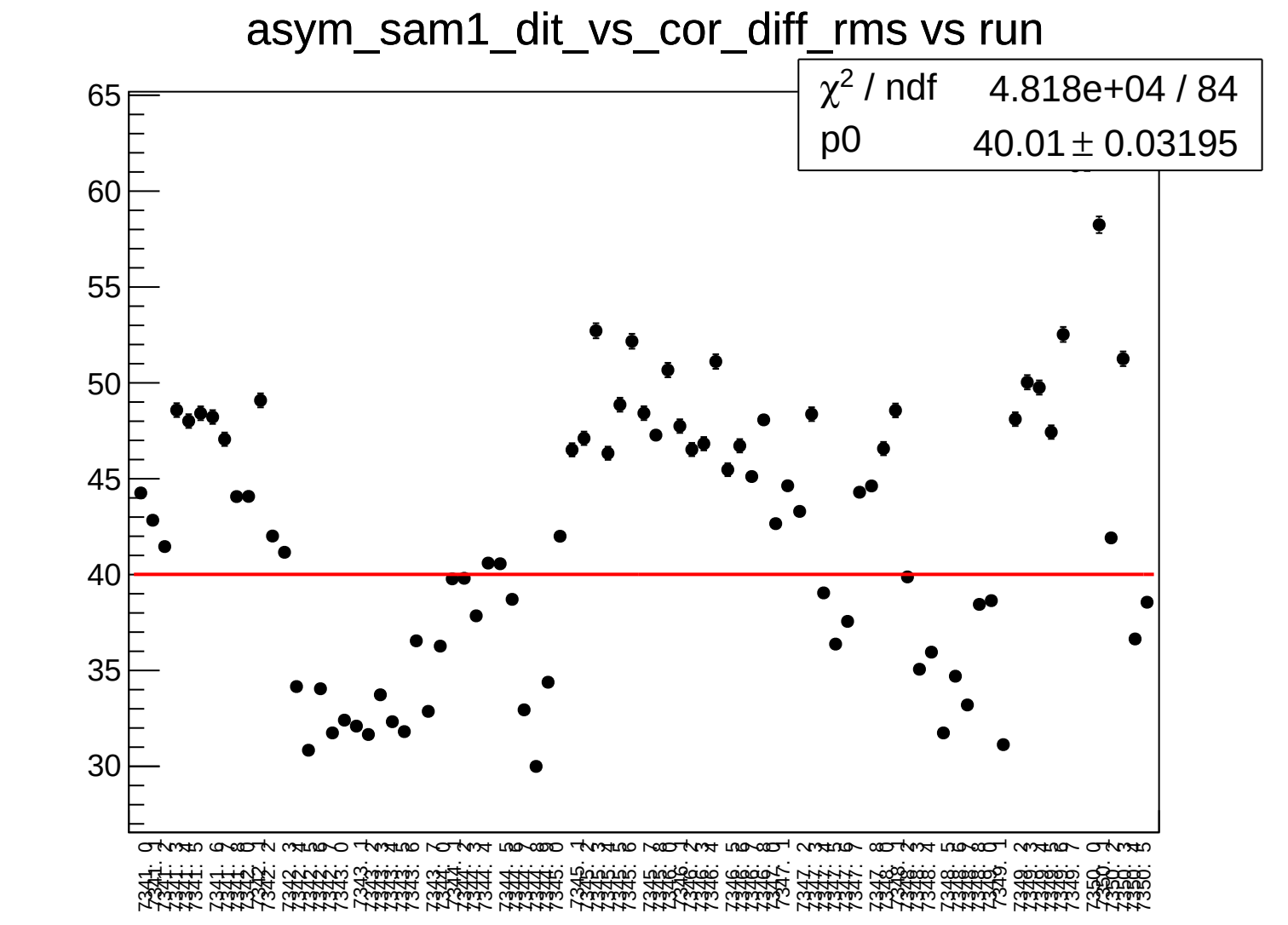

asym_sam1_rms vs run
χ² / ndf 4060 / 84
p0 343.6 ± 0.2706
400
380
360
340
320

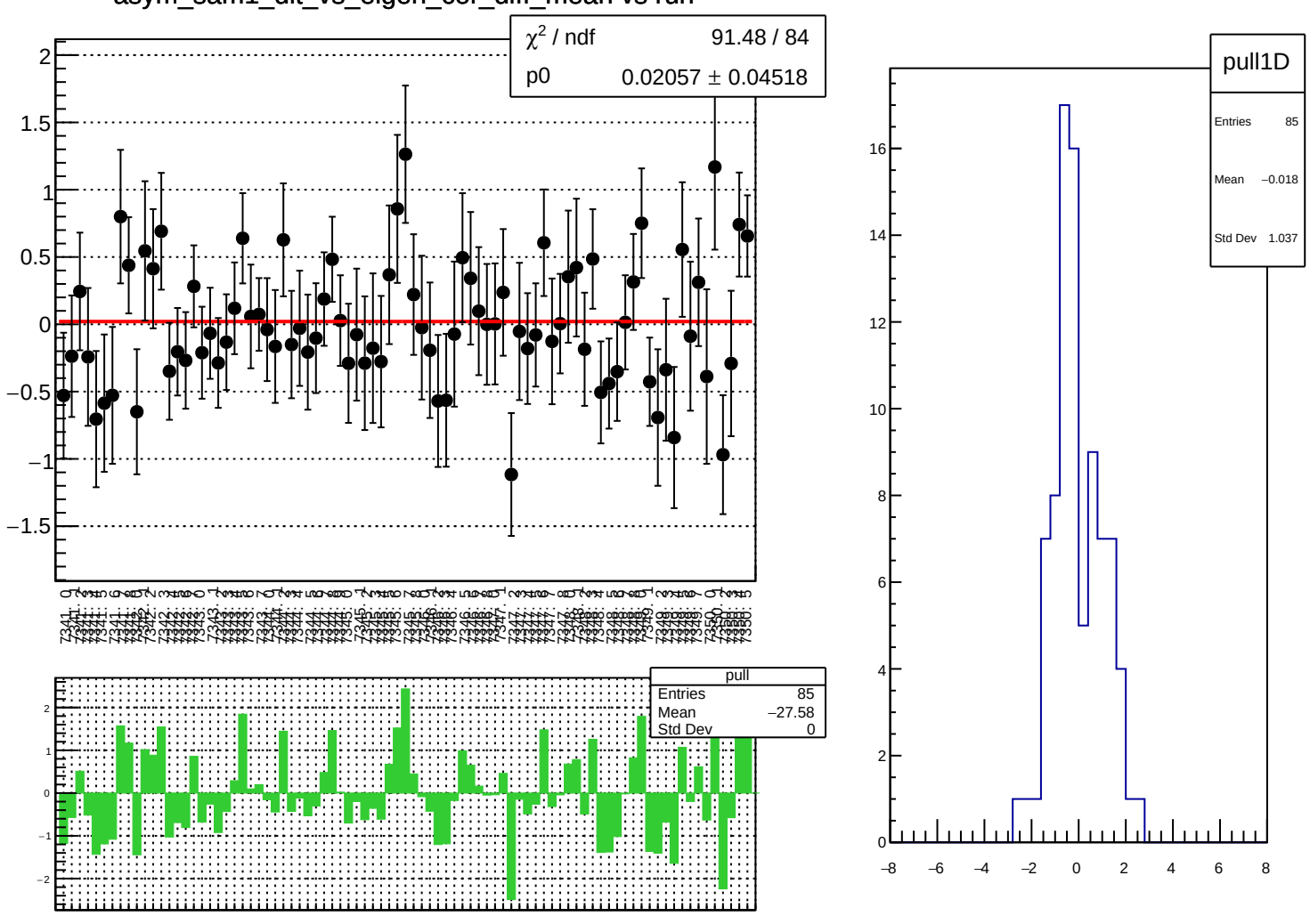

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 78.35 / 84
p0 −1.948e−14 ± 1.758e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 85
Mean 98.5
Std Dev 0
2
1
0
−1
−2
−3

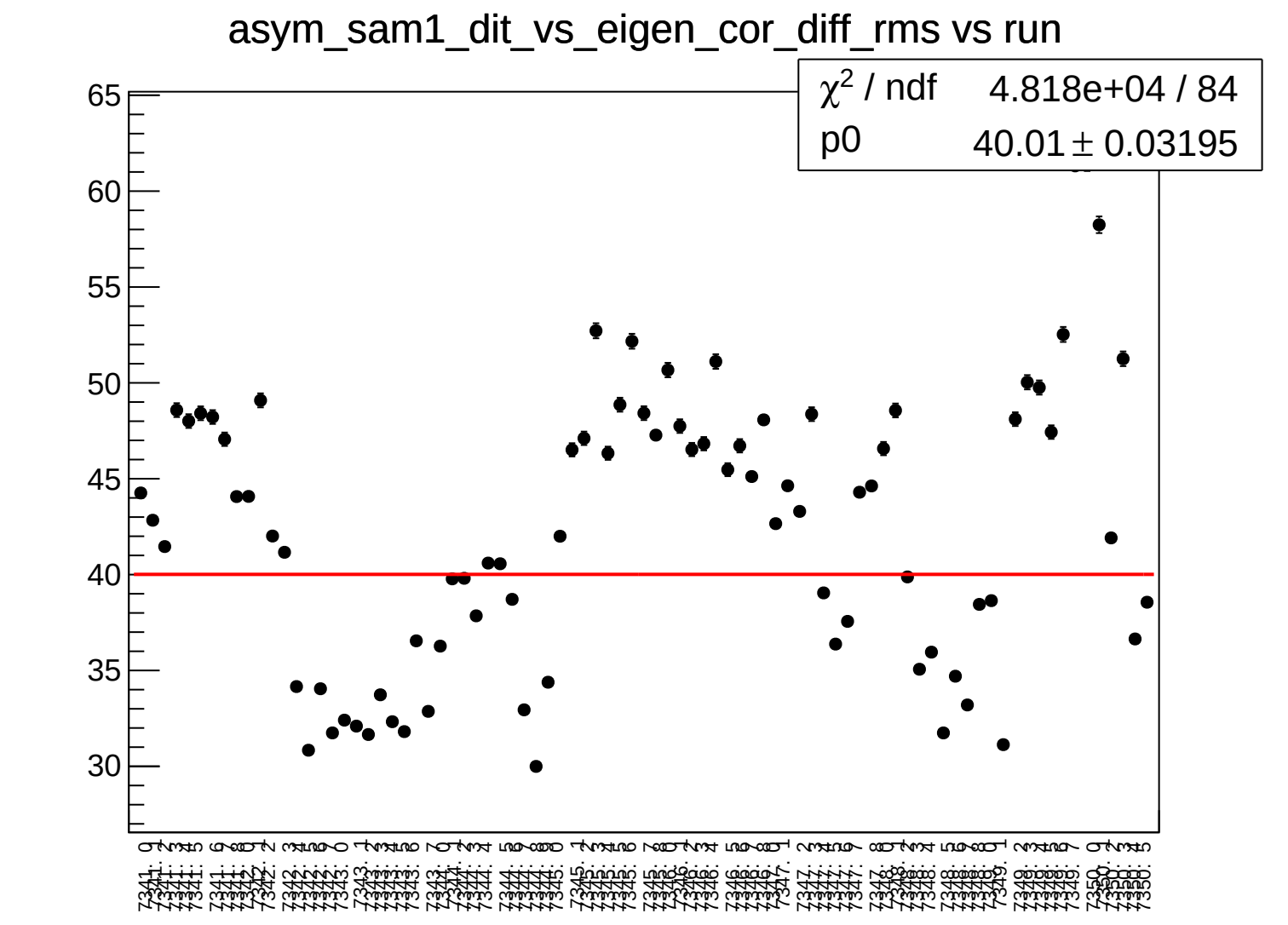

pull1D
Entries 85
Mean 0.035
Std Dev 0.9595
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

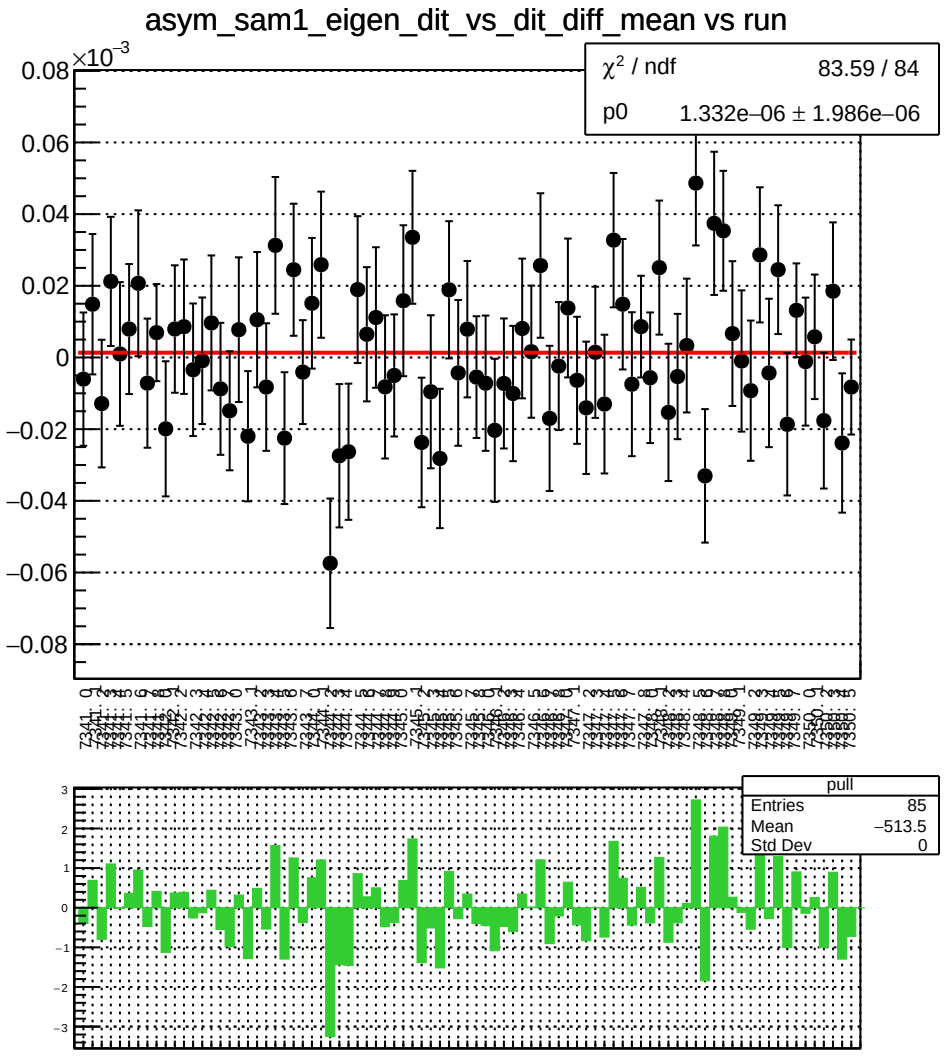

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.252e+06 / 84
p0 7.503e−12 ± 1.243e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

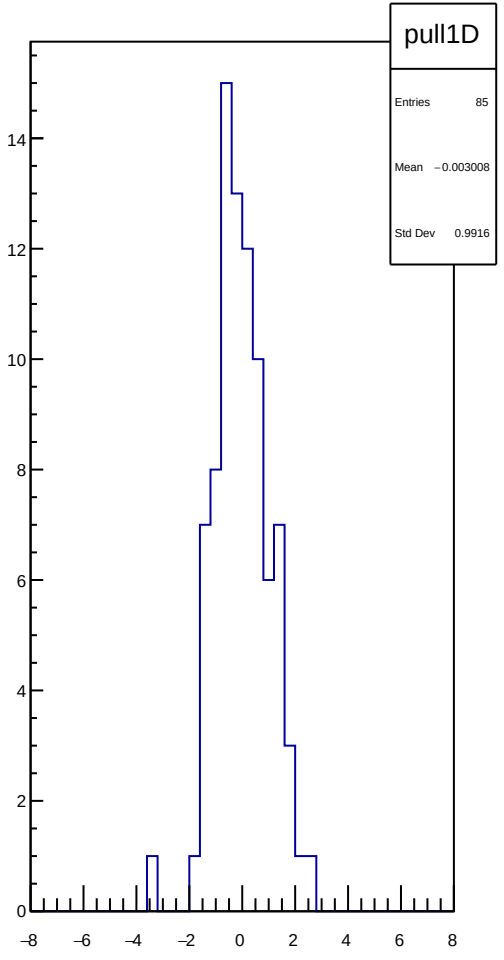

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 91.48 / 84
p0 0.02057 ± 0.04518
pull
Entries 85
Mean −27.58
Std Dev 0
pull1D
Entries 85
Mean −0.018
Std Dev 1.037

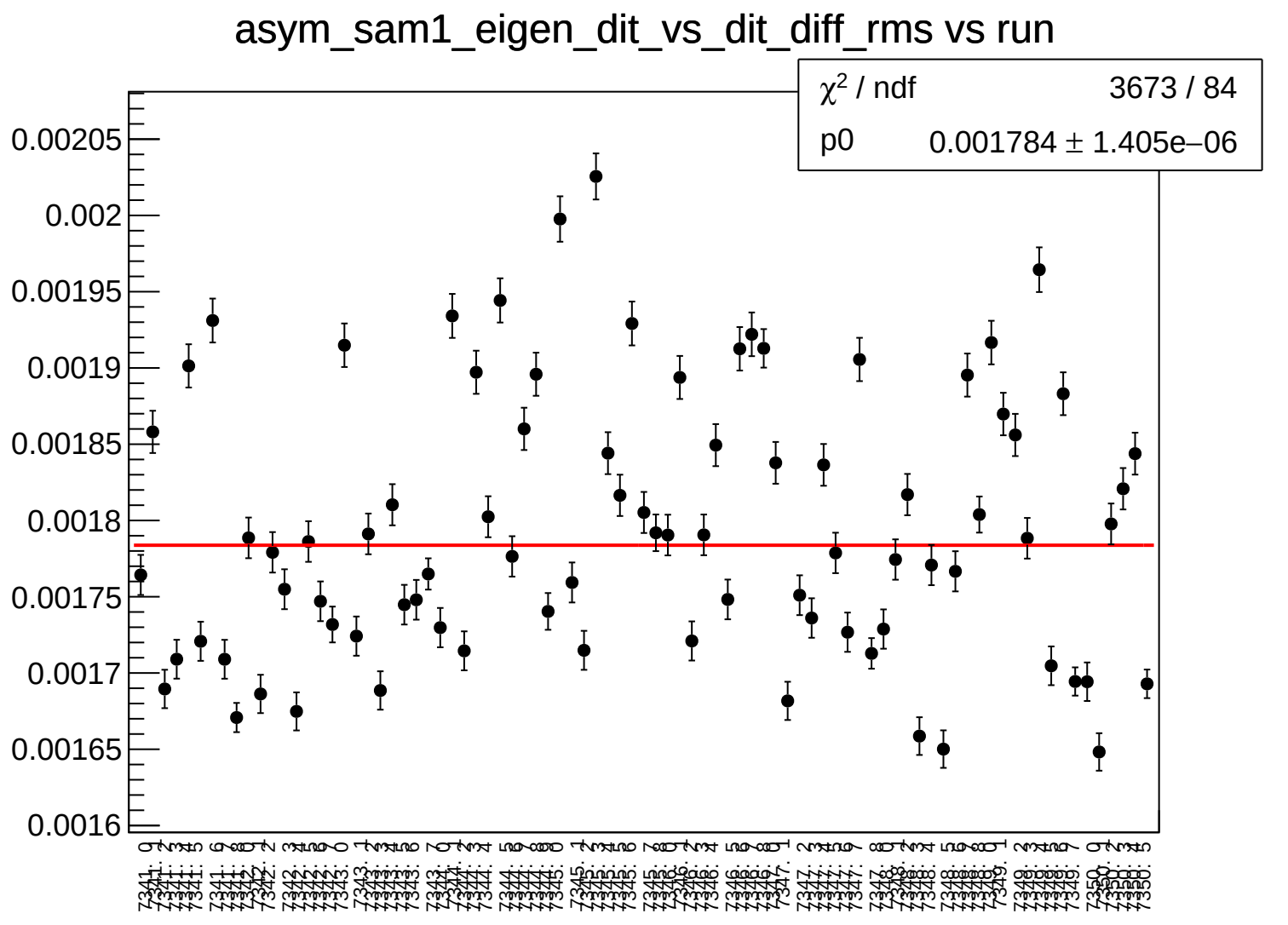

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.818e+04 / 84
p0 40.01 ± 0.03195
65
60
55
50
45
40
35
30

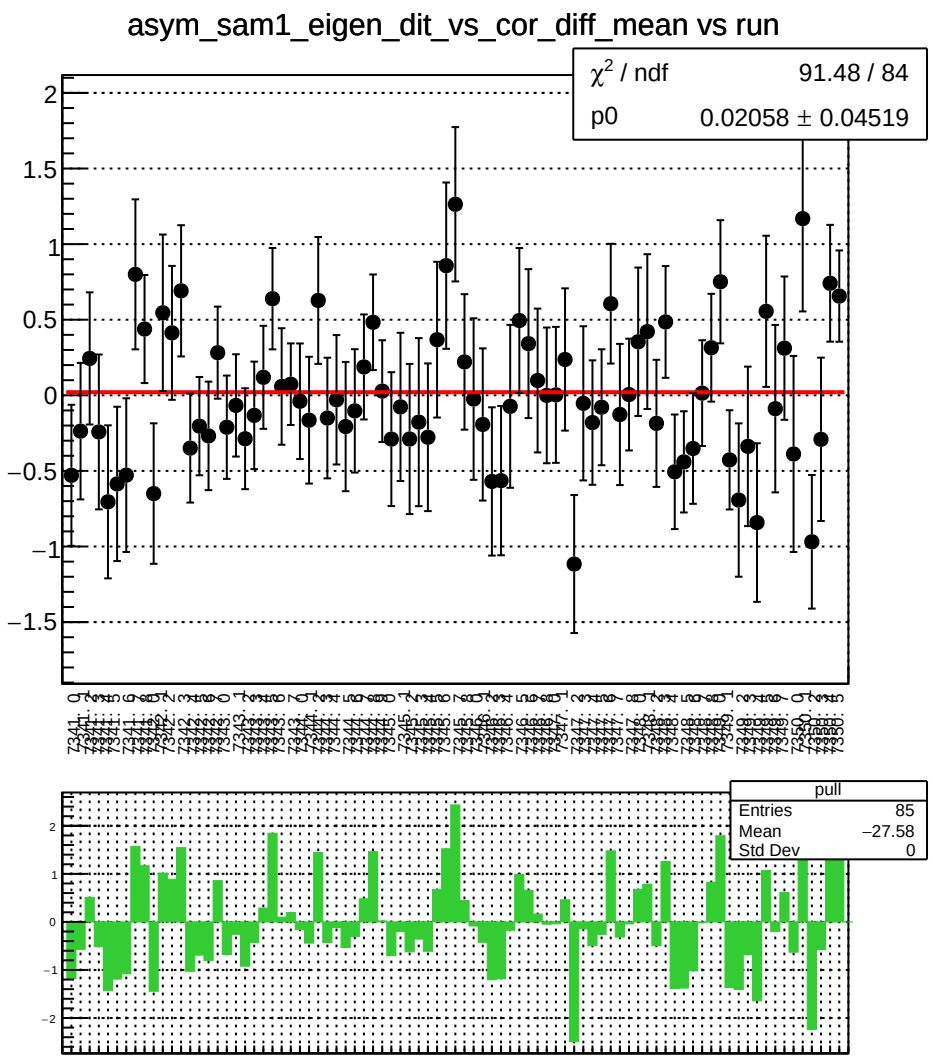

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.48 / 84
p0 0.02057 ± 0.04518
pull
Entries 85
Mean −27.58
Std Dev 0
pull1D
Entries 85
Mean −0.018
Std Dev 1.037

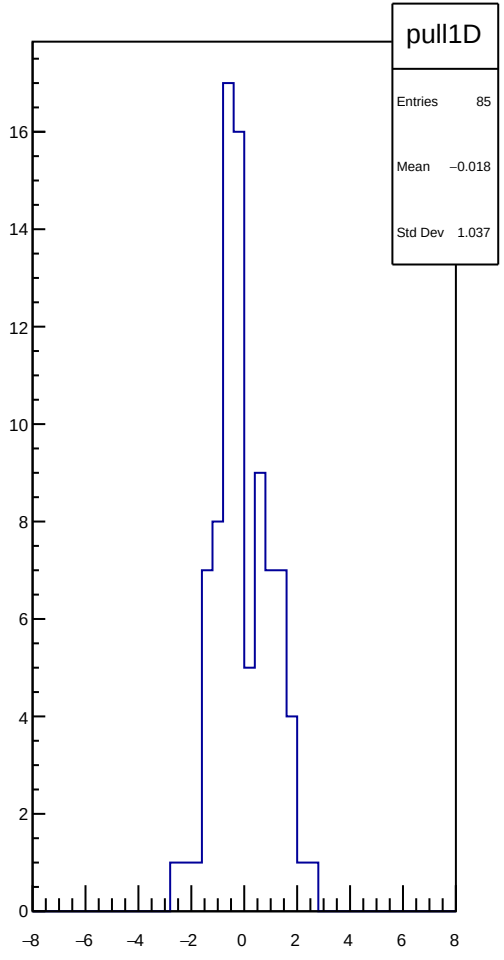

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.818e+04 / 84
p0 40.01 ± 0.03195
65
60
55
50
45
40
35
30

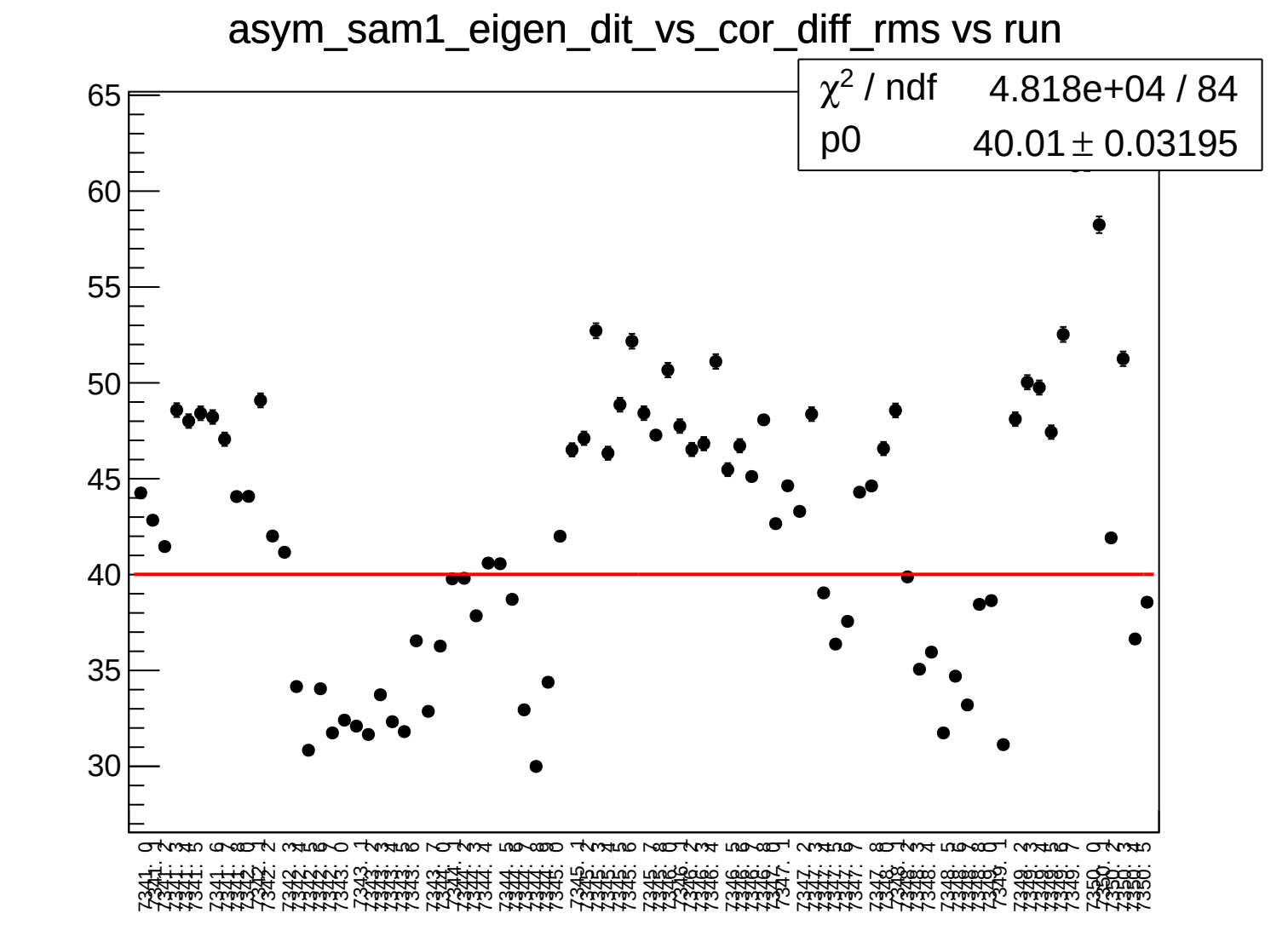

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 83.59 / 84
p0 1.332e−06 ± 1.986e−06
×10⁻³
pull
Entries 85
Mean −513.5
Std Dev 0

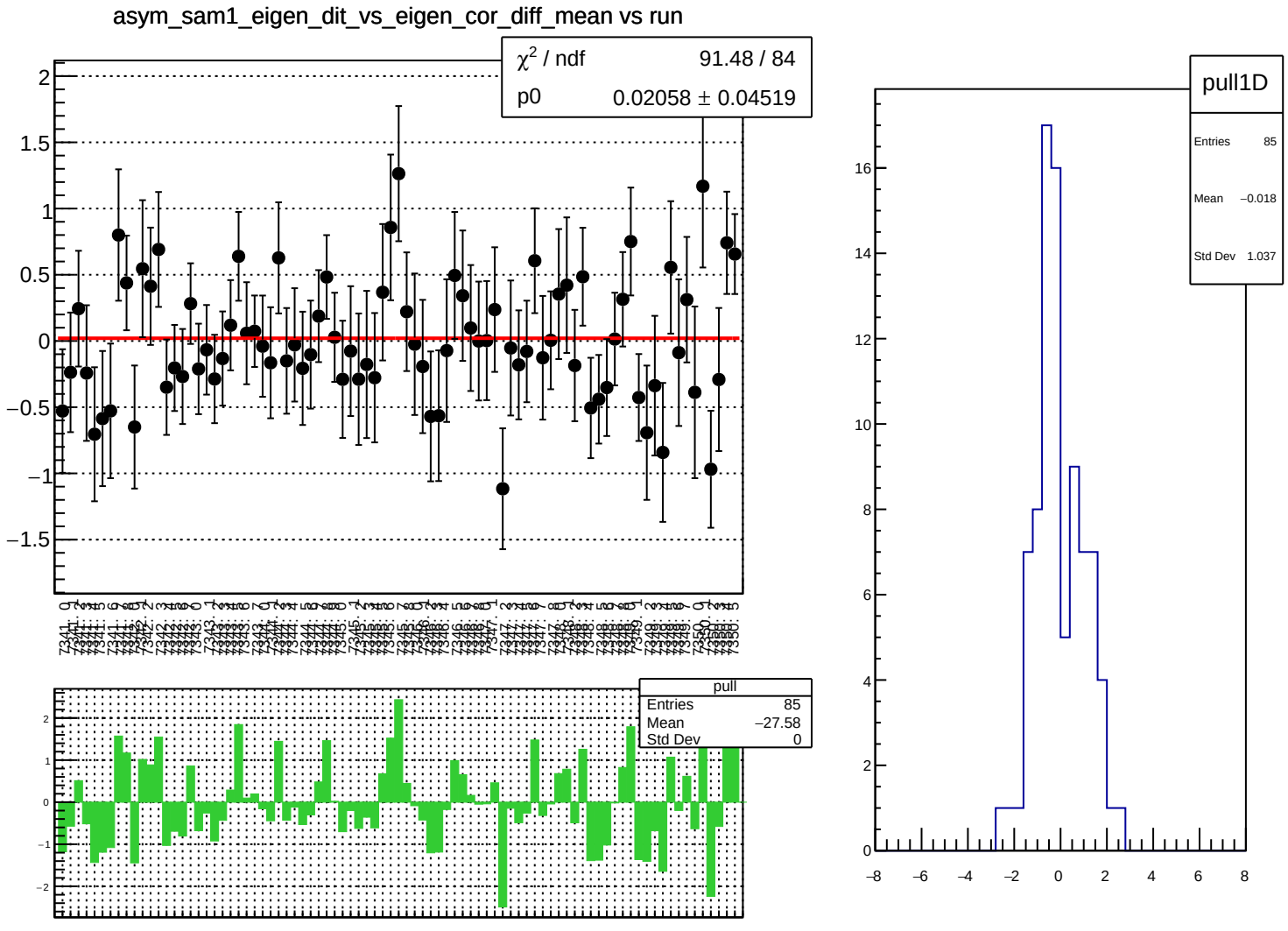

pull1D
Entries 85
Mean −0.003008
Std Dev 0.9916

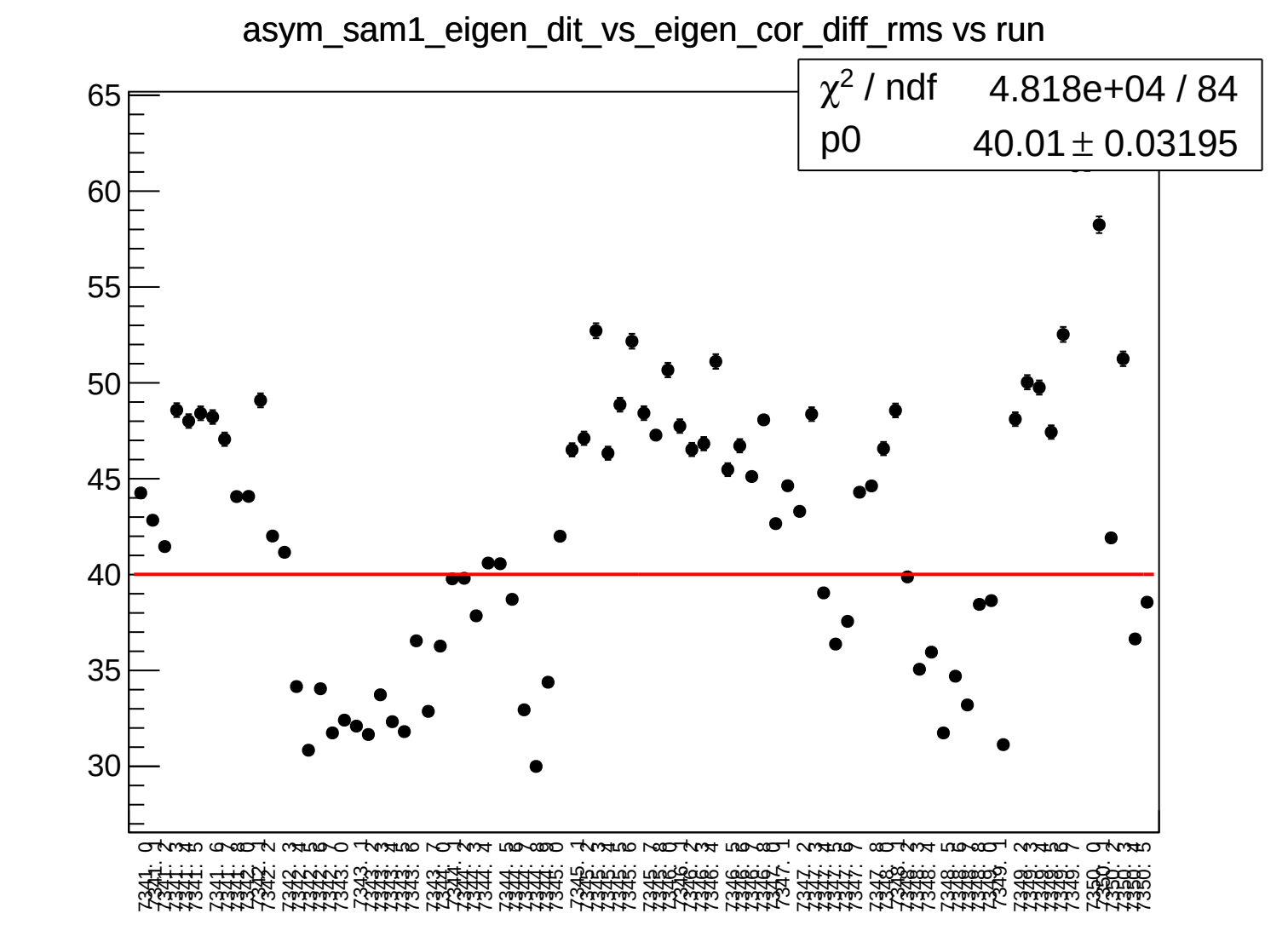

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3673 / 84
p0 0.001784 ± 1.405e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016

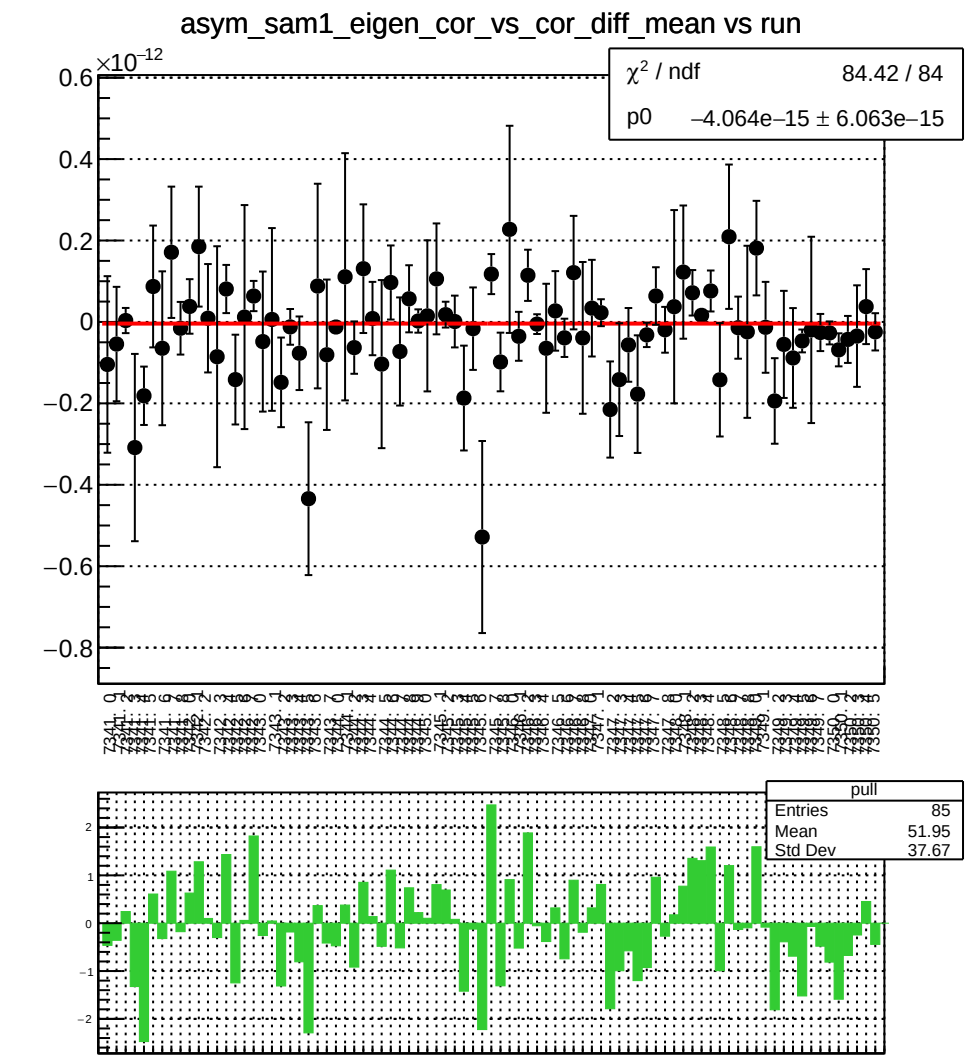

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.48 / 84
p0 0.02058 ± 0.04519
pull
Entries 85
Mean −27.58
Std Dev 0

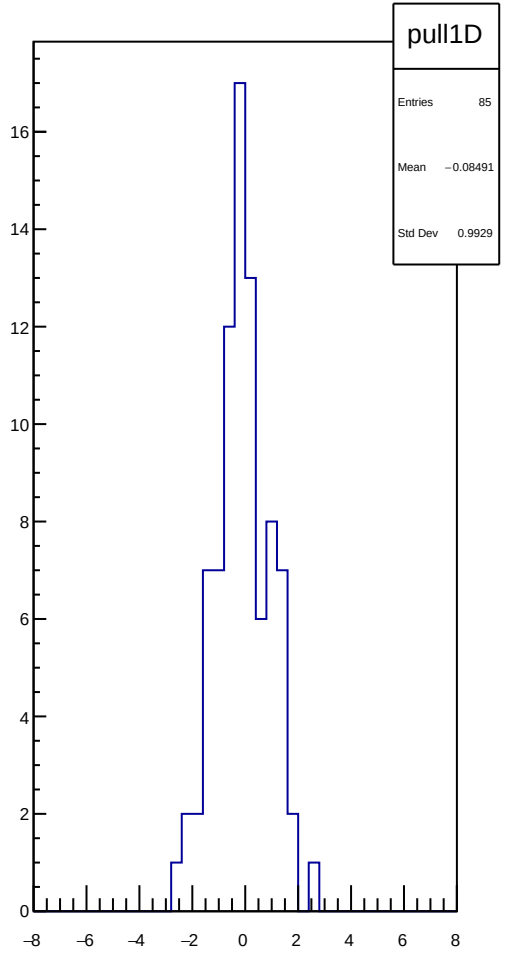

pull1D
Entries 85
Mean −0.018
Std Dev 1.037

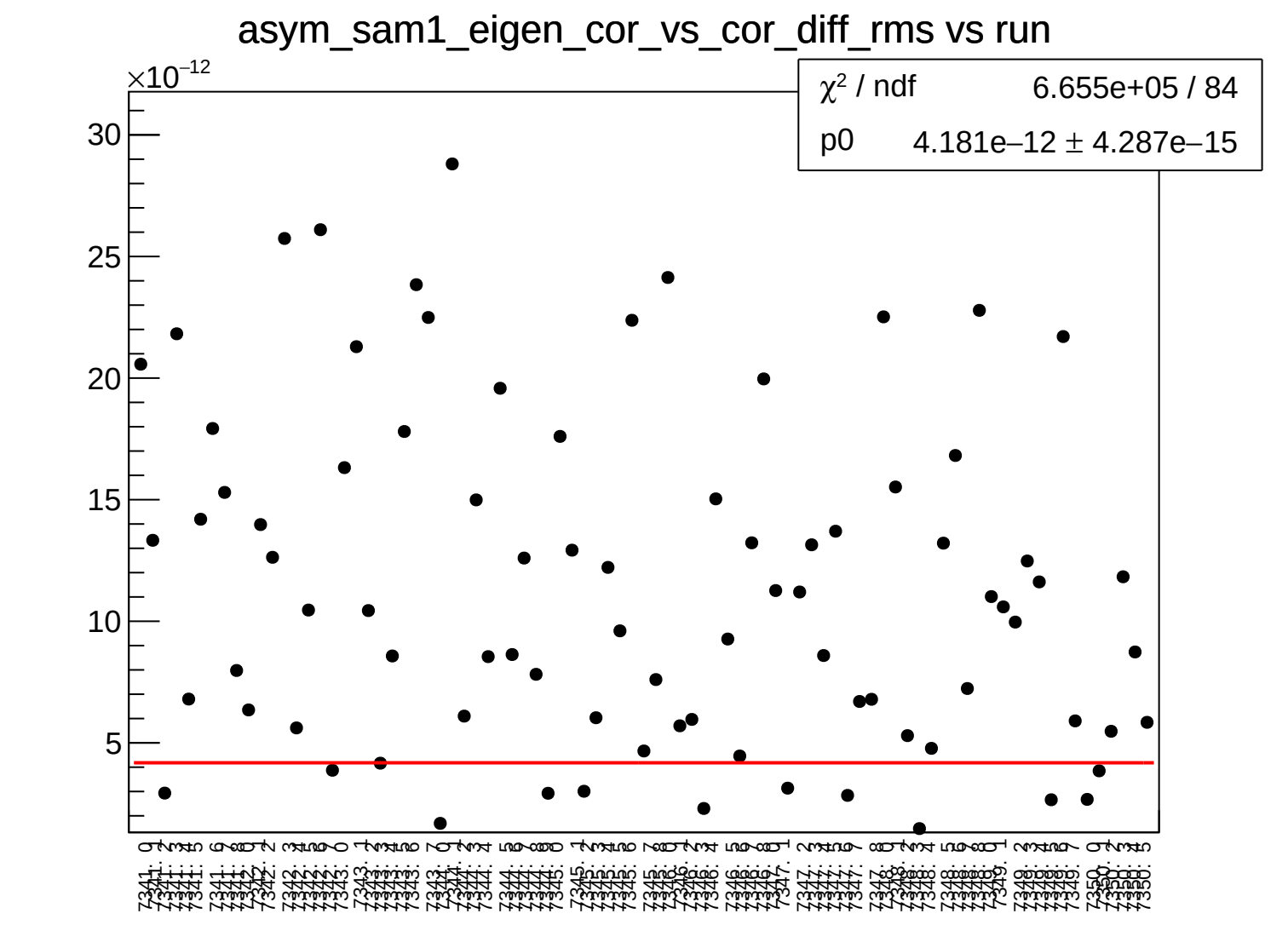

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.818e+04 / 84
p0 40.01 ± 0.03195
65
60
55
50
45
40
35
30

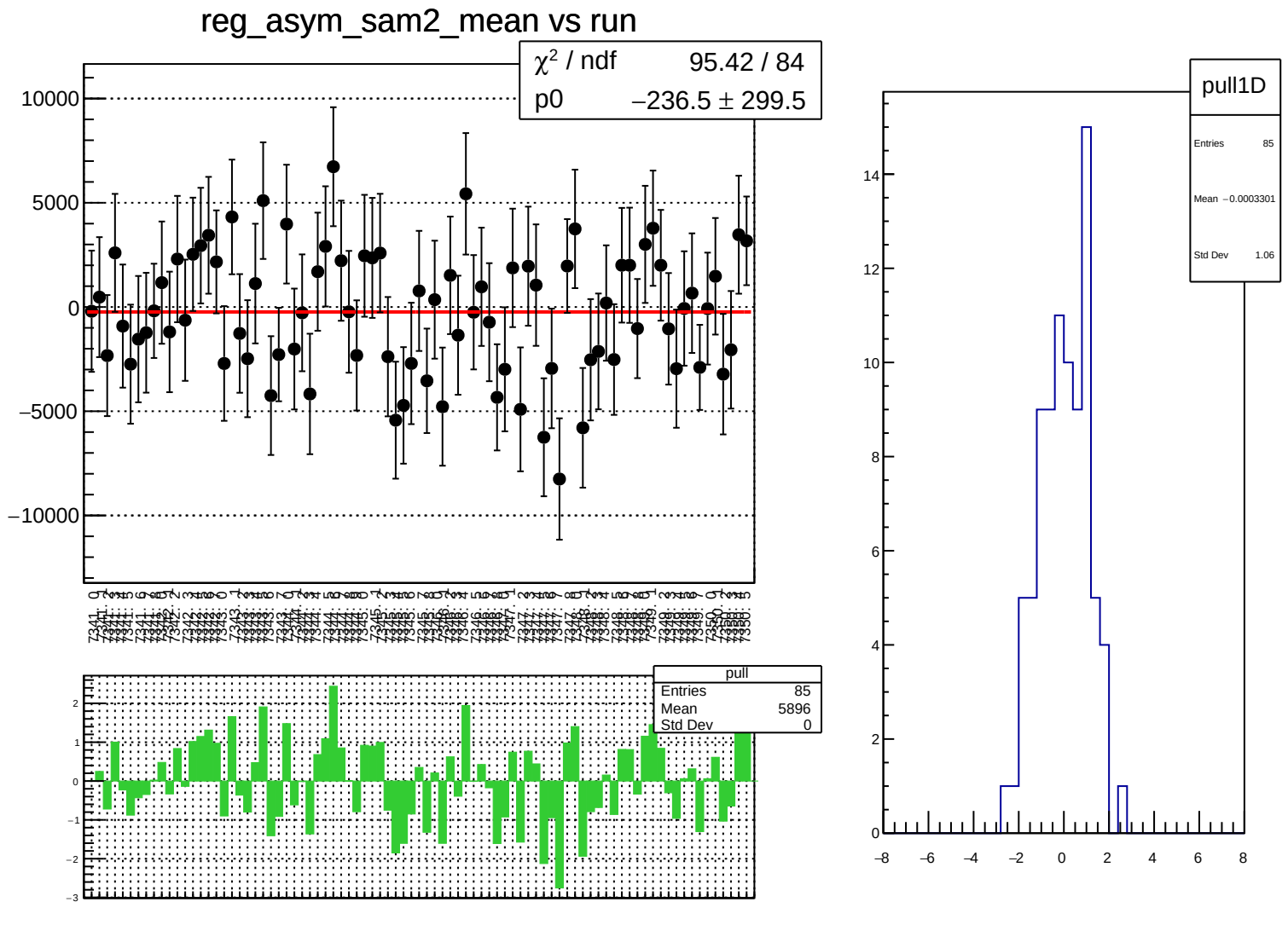

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.48 / 84
p0 0.02058 ± 0.04519
pull
Entries 85
Mean −27.58
Std Dev 0
pull1D
Entries 85
Mean −0.018
Std Dev 1.037

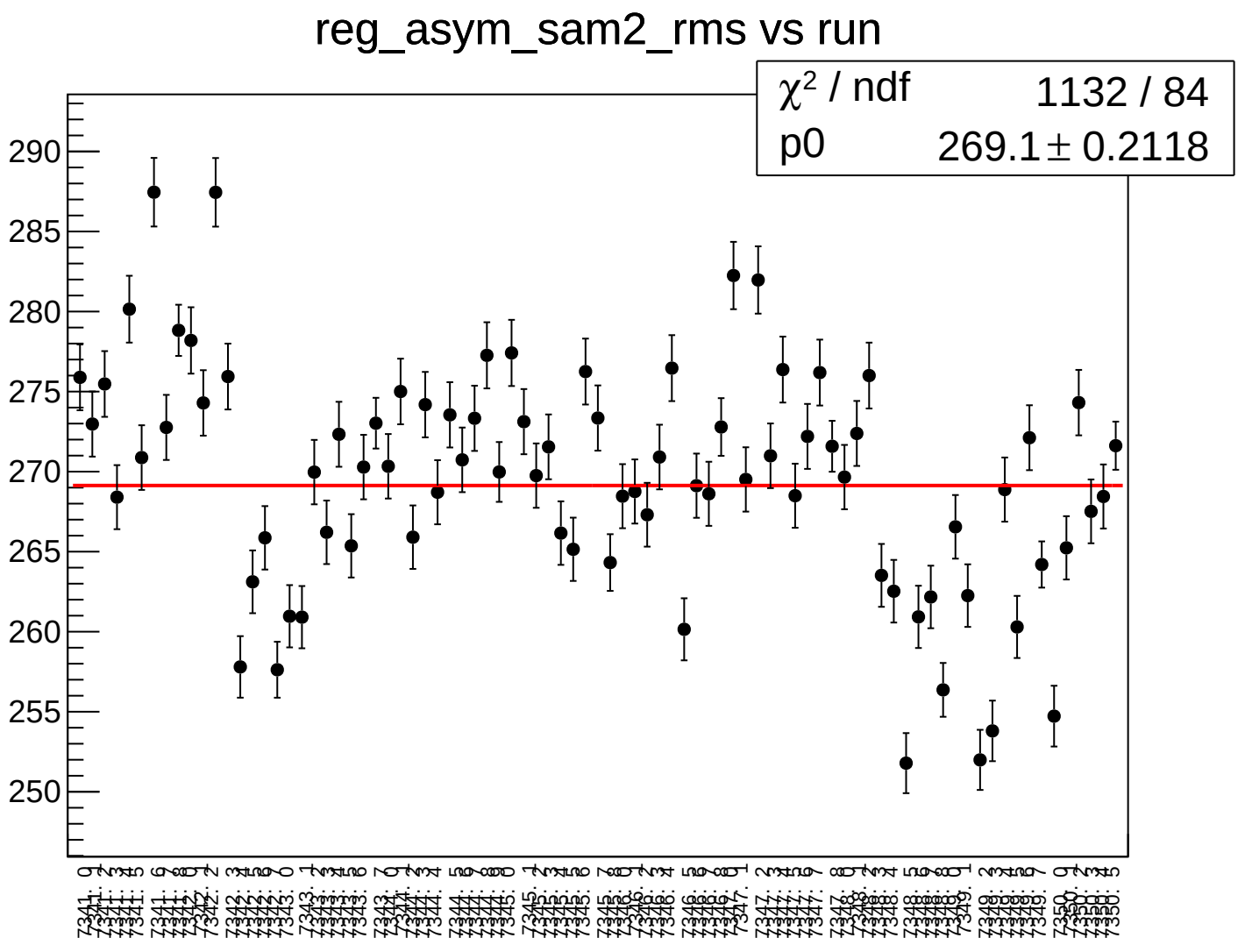

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.818e+04 / 84
p0 40.01 ± 0.03195
65
60
55
50
45
40
35
30

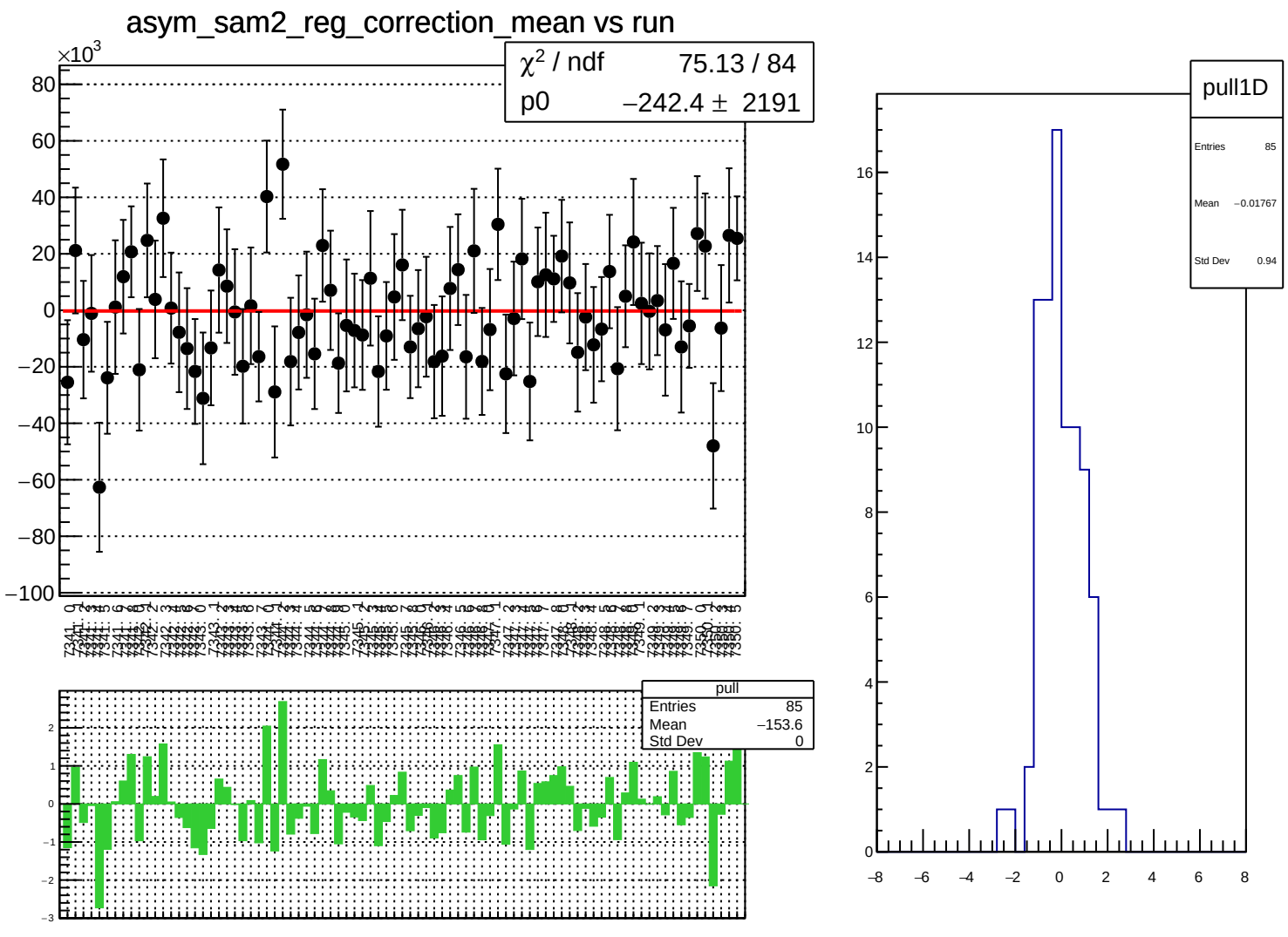

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.42 / 84
p0 −4.064e−15 ± 6.063e−15
pull
Entries 85
Mean 51.95
Std Dev 37.67

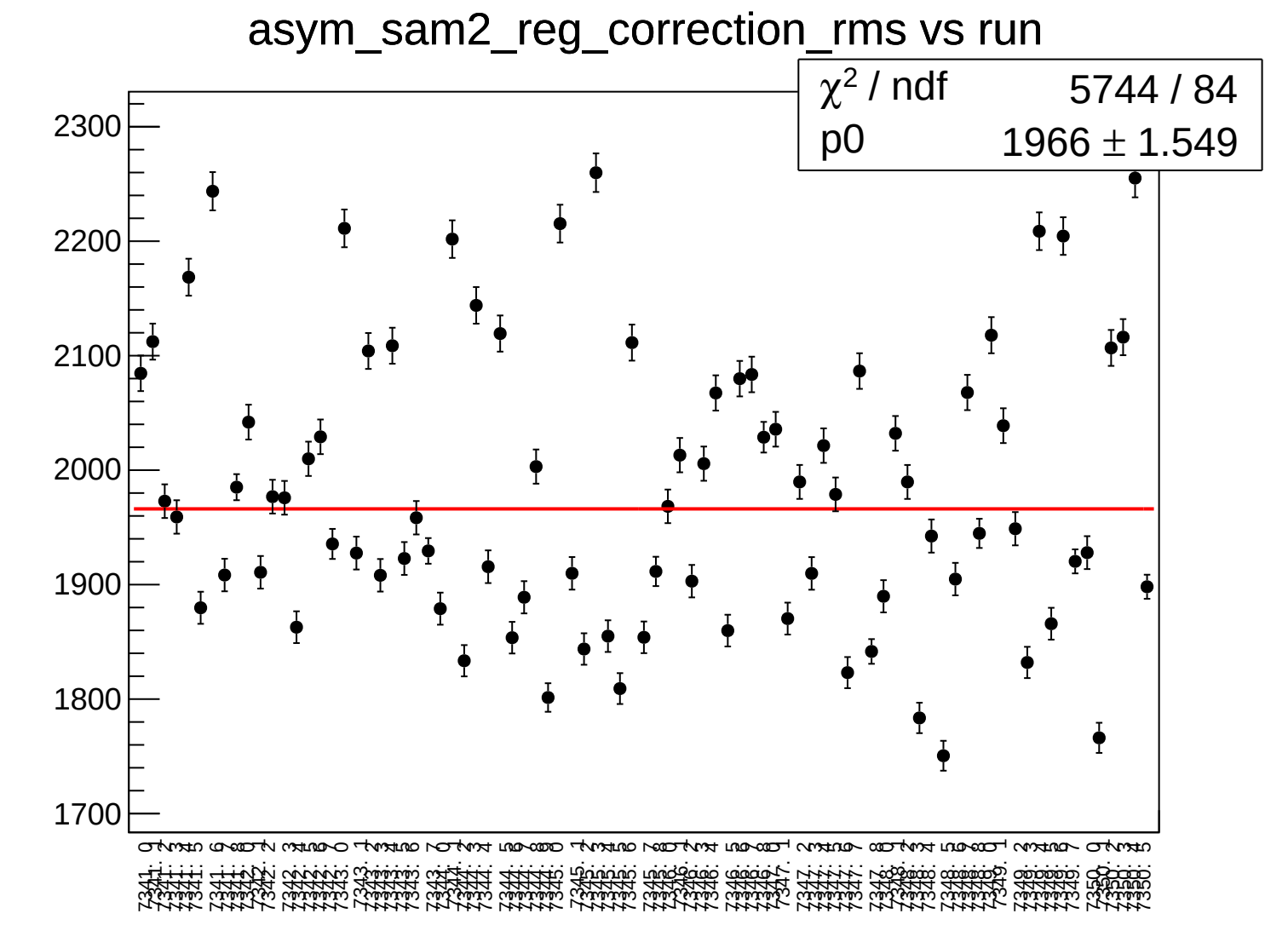

pull1D
Entries 85
Mean −0.08491
Std Dev 0.9929

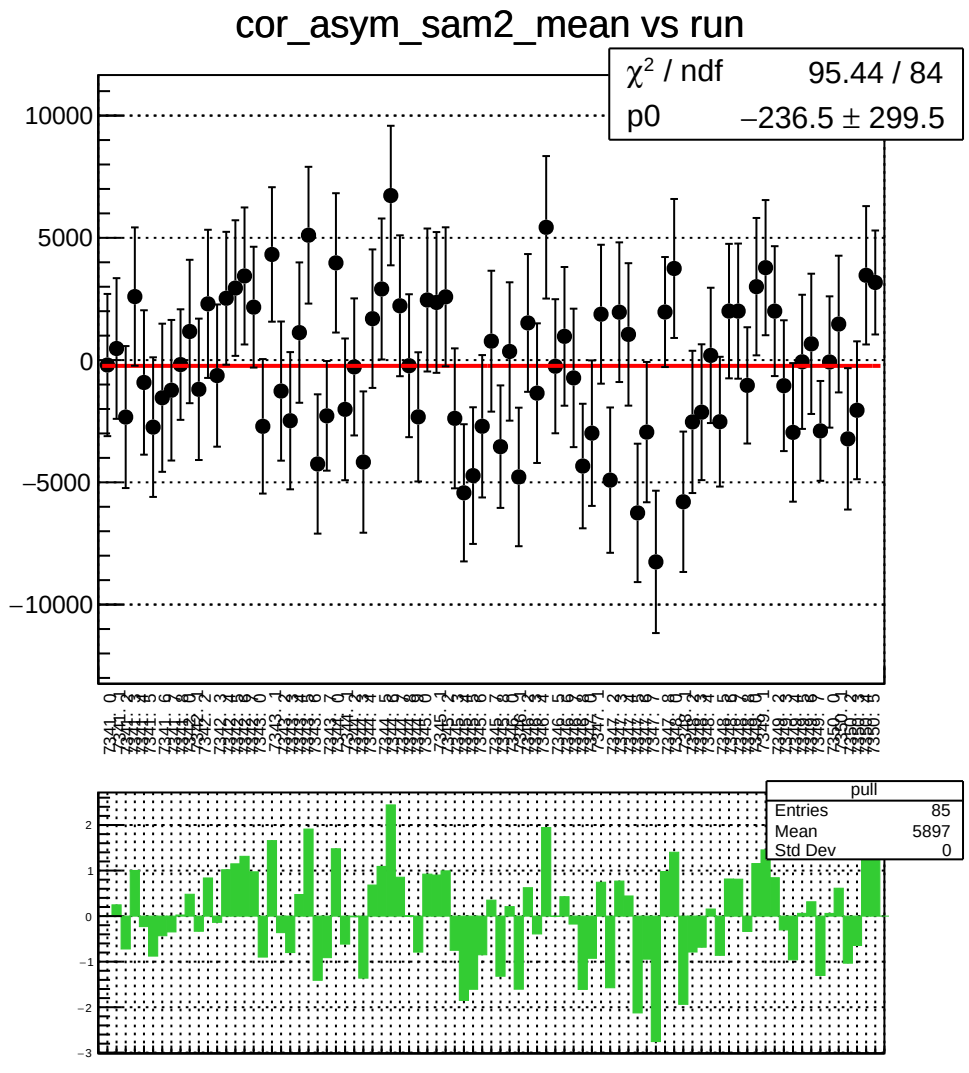

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.655e+05 / 84
p0 4.181e−12 ± 4.287e−15
30
25
20
15
10
5

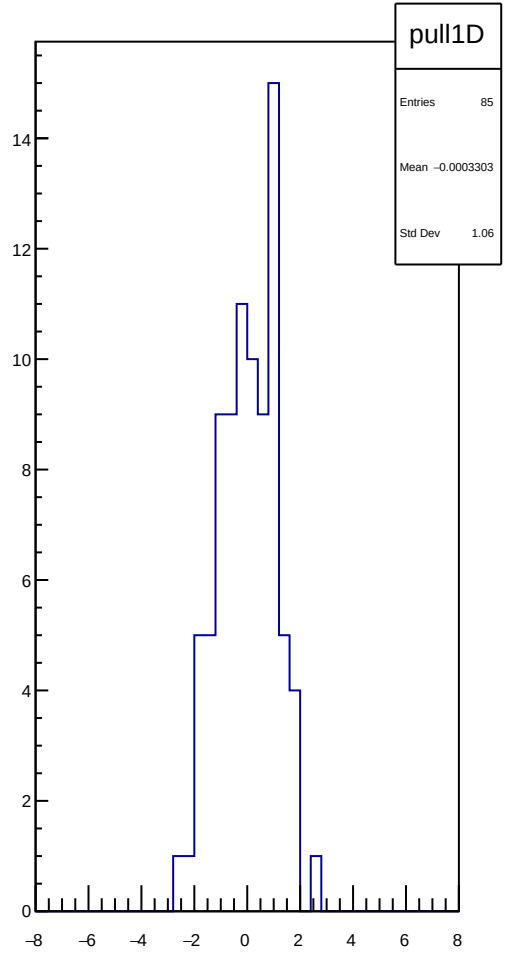

reg_asym_sam2_mean vs run
χ² / ndf 95.42 / 84
p0 −236.5 ± 299.5
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 5896
Std Dev 0
pull1D
Entries 85
Mean −0.0003301
Std Dev 1.06

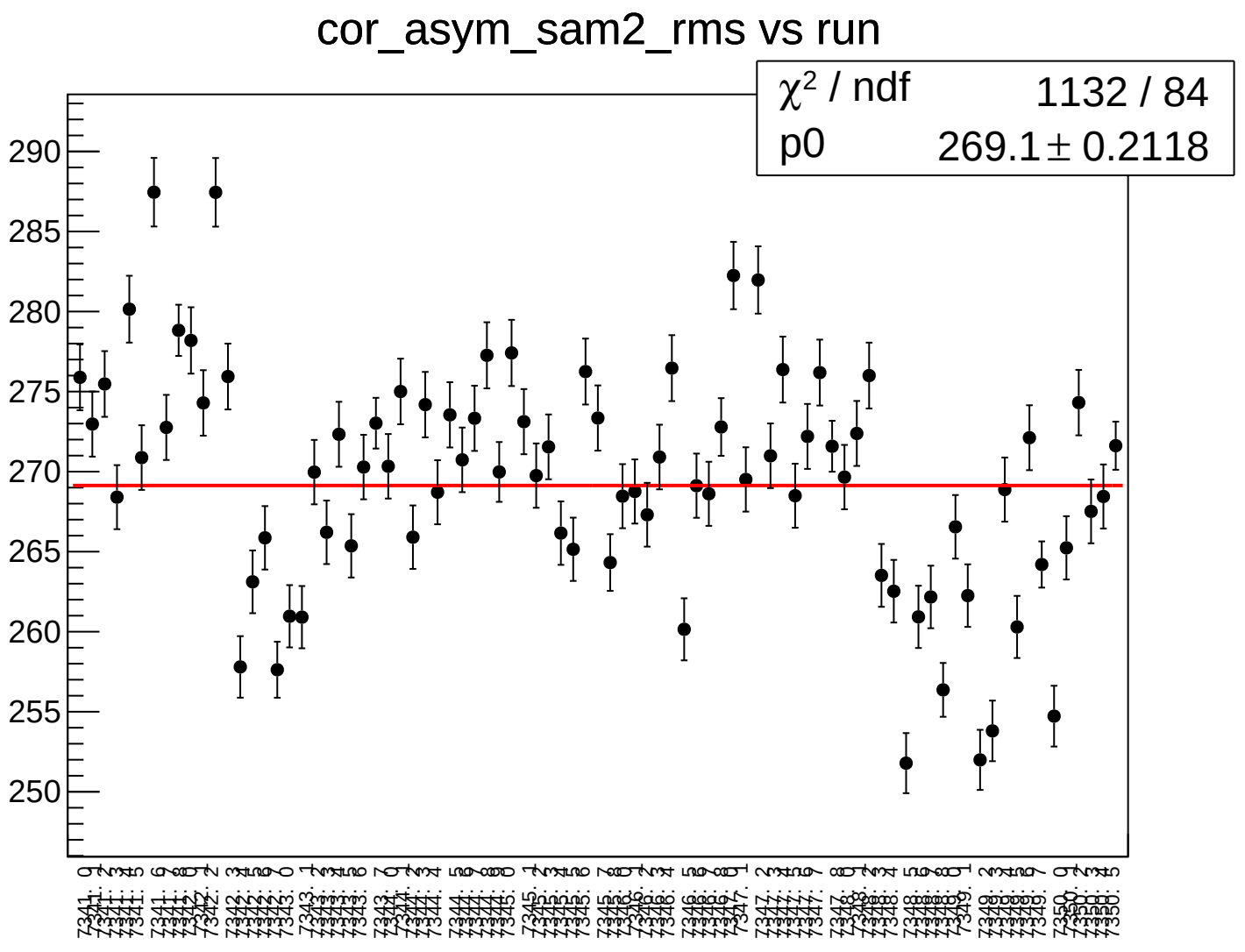

reg_asym_sam2_rms vs run
χ² / ndf 1132 / 84
p0 269.1 ± 0.2118
290
285
280
275
270
265
260
255
250

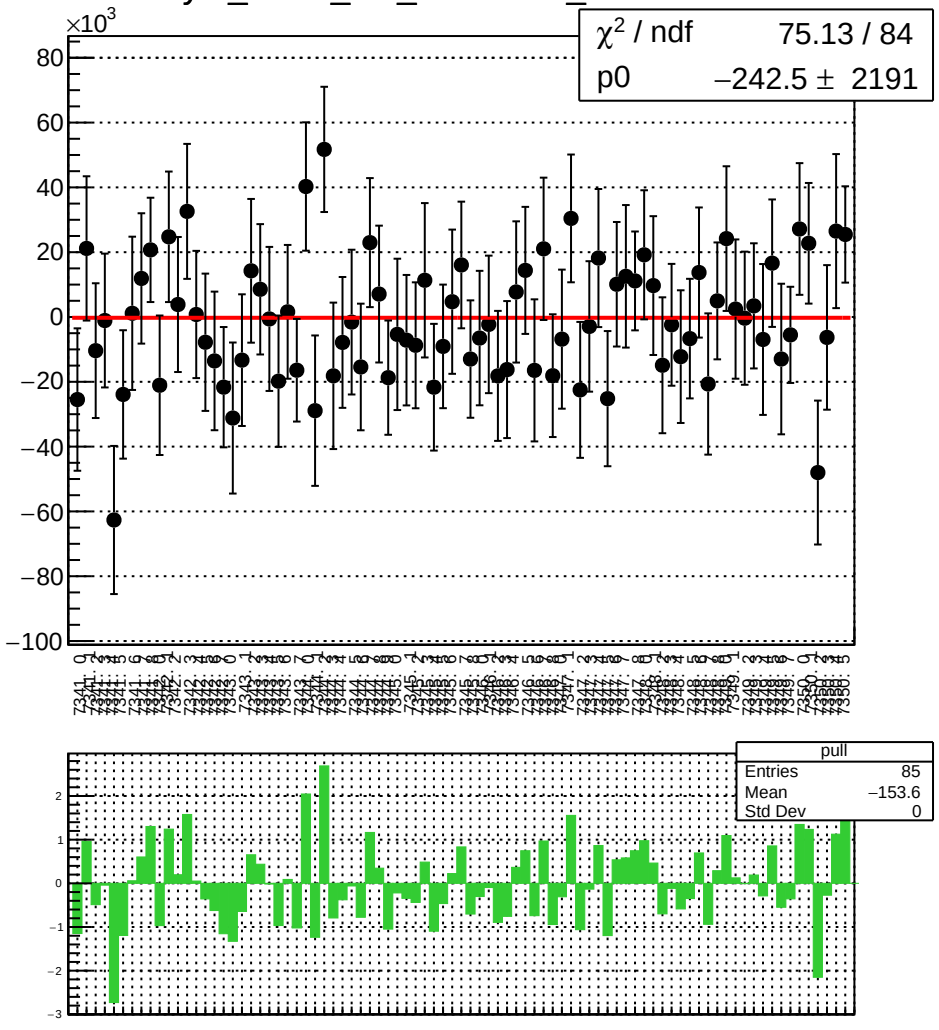

asym_sam2_reg_correction_mean vs run
χ² / ndf 75.13 / 84
p0 −242.4 ± 2191
×10³
pull
Entries 85
Mean −153.6
Std Dev 0
pull1D
Entries 85
Mean −0.01767
Std Dev 0.94

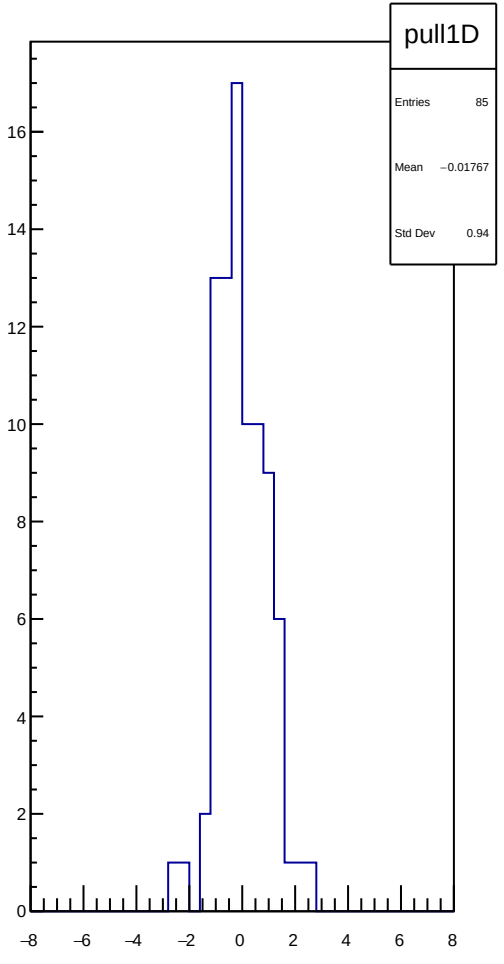

asym_sam2_reg_correction_rms vs run
χ² / ndf 5744 / 84
p0 1966 ± 1.549
2300
2200
2100
2000
1900
1800
1700

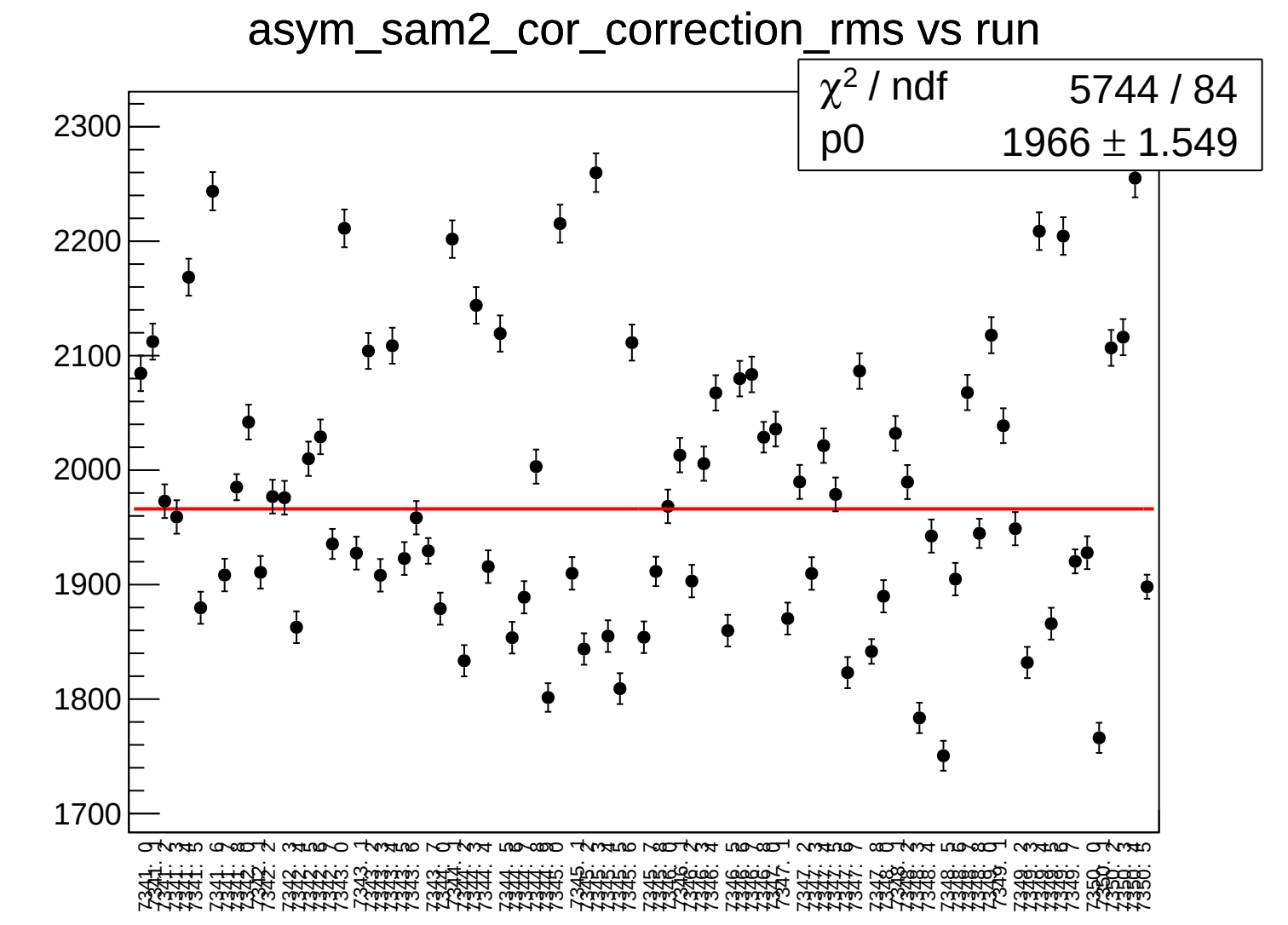

cor_asym_sam2_mean vs run
χ² / ndf 95.44 / 84
p0 −236.5 ± 299.5
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 5897
Std Dev 0
2
1
0
−1
−2
−3

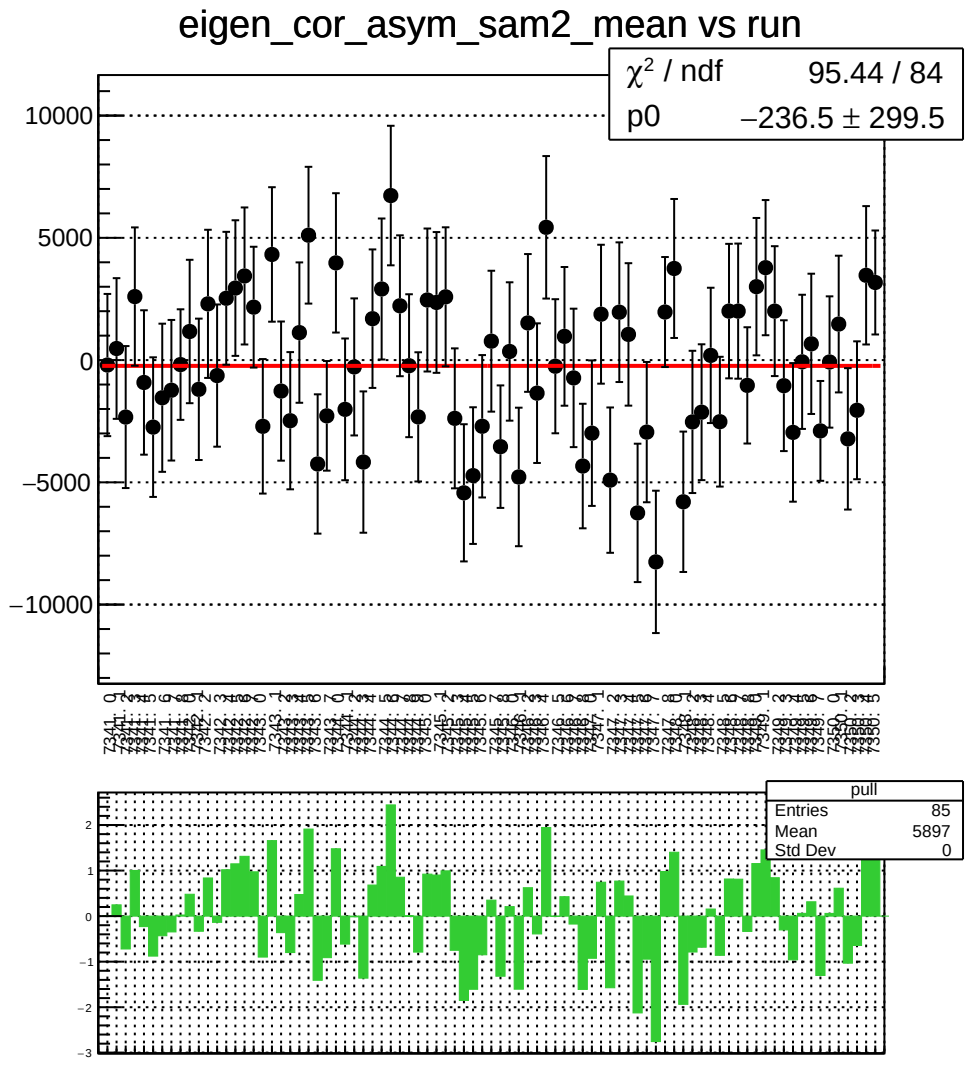

pull1D
Entries 85
Mean −0.0003303
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

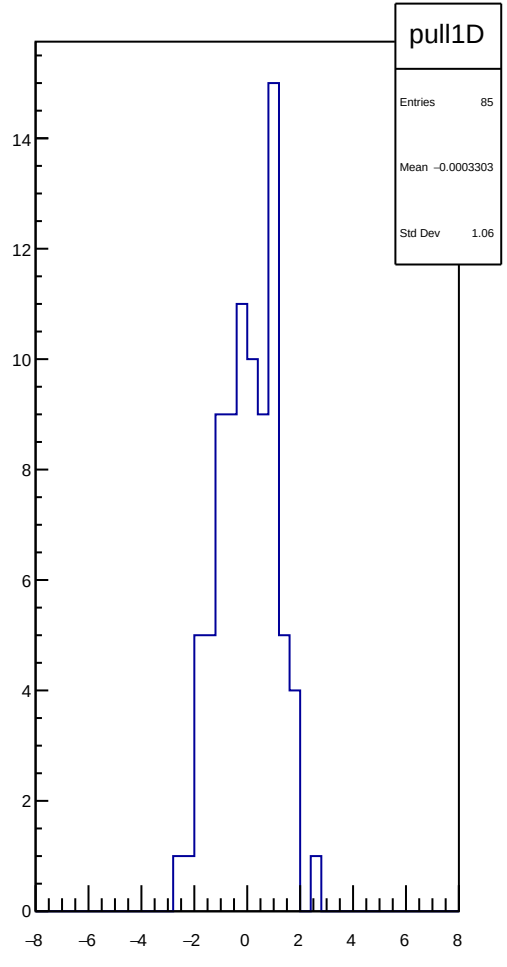

cor_asym_sam2_rms vs run
χ² / ndf 1132 / 84
p0 269.1 ± 0.2118
290
285
280
275
270
265
260
255
250

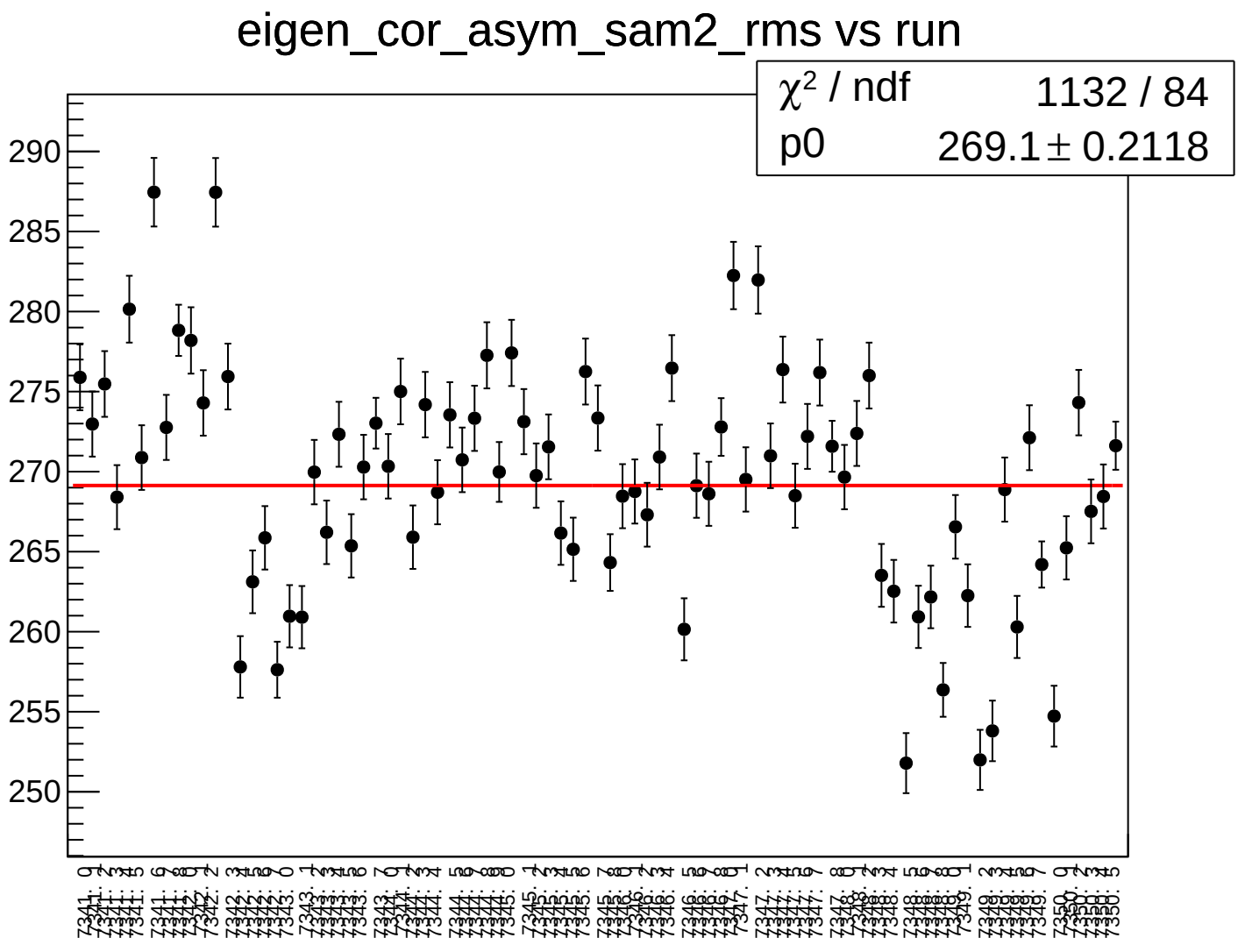

asym_sam2_cor_correction_mean vs run
χ² / ndf 75.13 / 84
p0 −242.5 ± 2191
×10³
pull
Entries 85
Mean −153.6
Std Dev 0

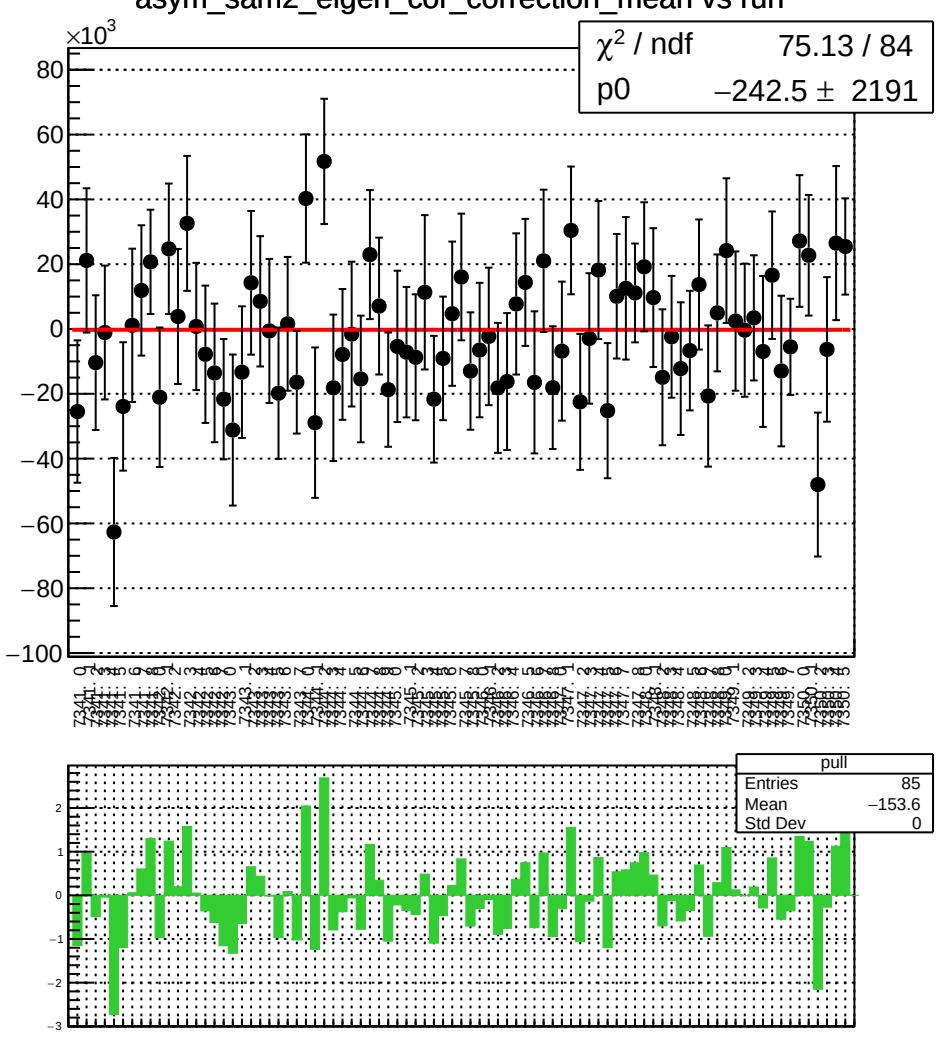

pull1D
Entries 85
Mean −0.01767
Std Dev 0.94

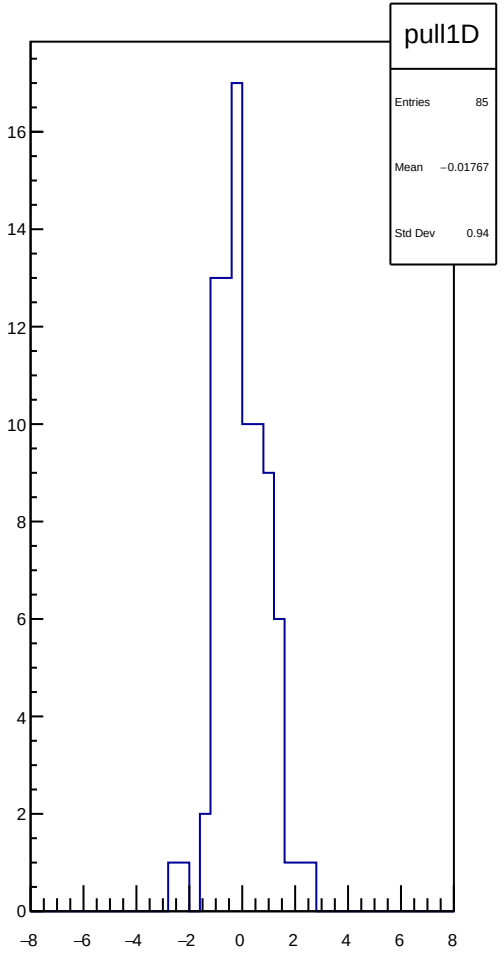

asym_sam2_cor_correction_rms vs run
χ² / ndf 5744 / 84
p0 1966 ± 1.549
2300
2200
2100
2000
1900
1800
1700

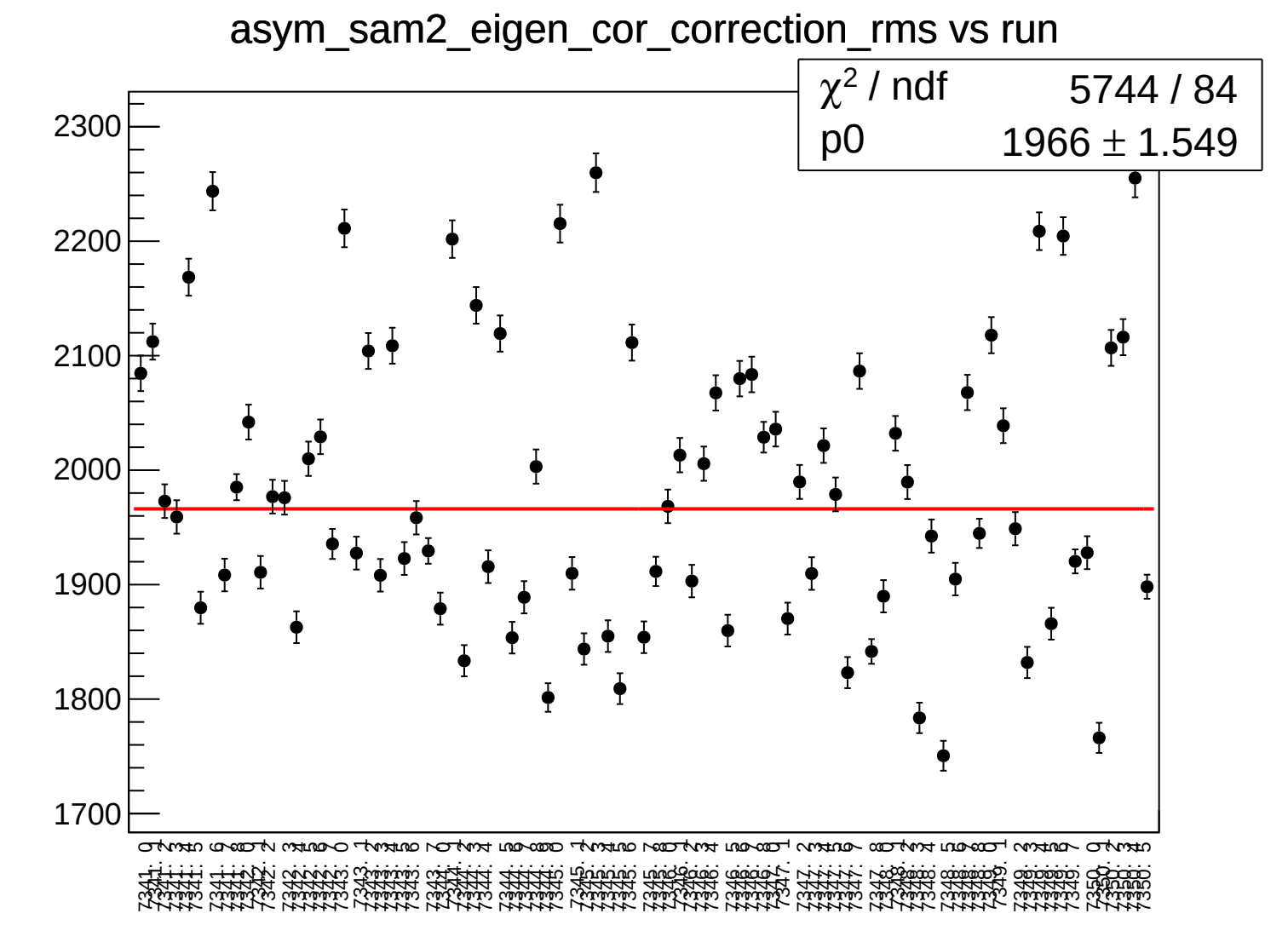

eigen_cor_asym_sam2_mean vs run
χ² / ndf 95.44 / 84
p0 −236.5 ± 299.5
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 5897
Std Dev 0
2
1
0
−1
−2
−3

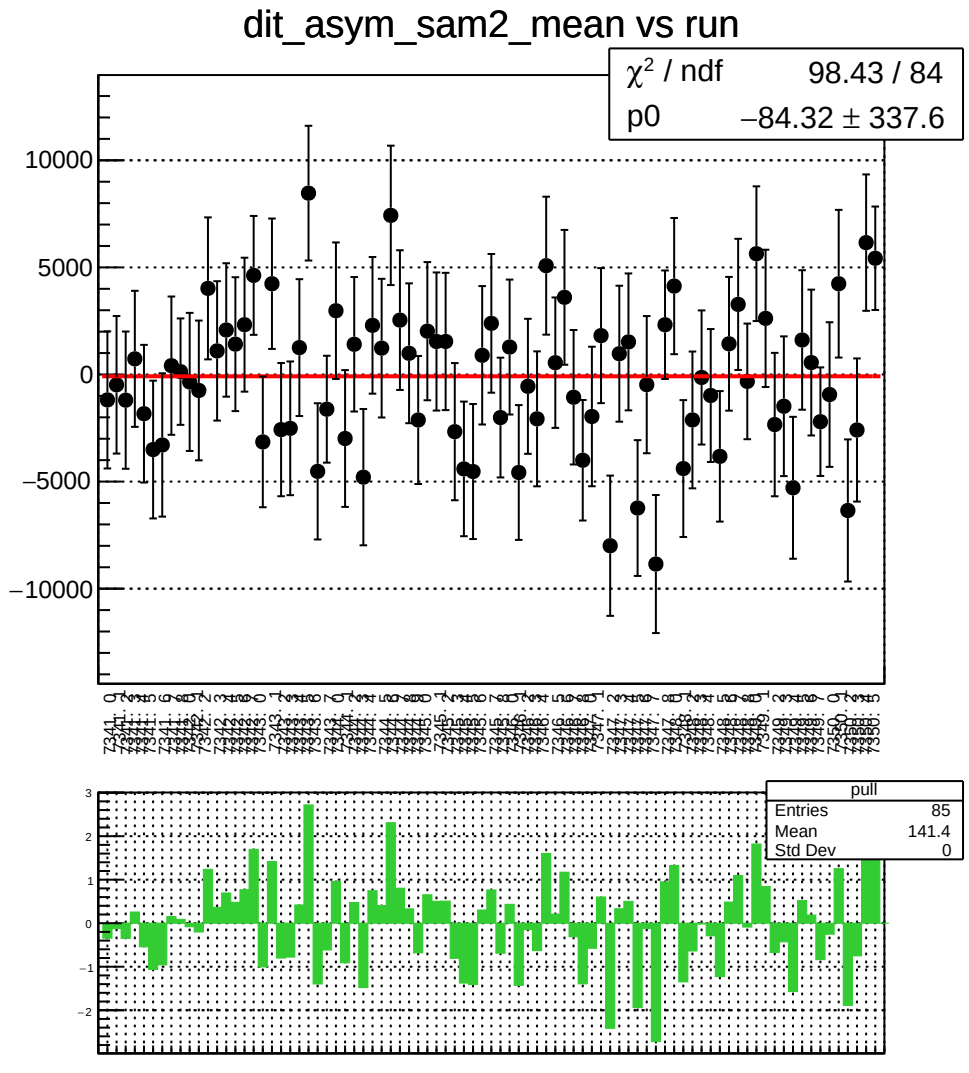

pull1D
Entries 85
Mean −0.0003303
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

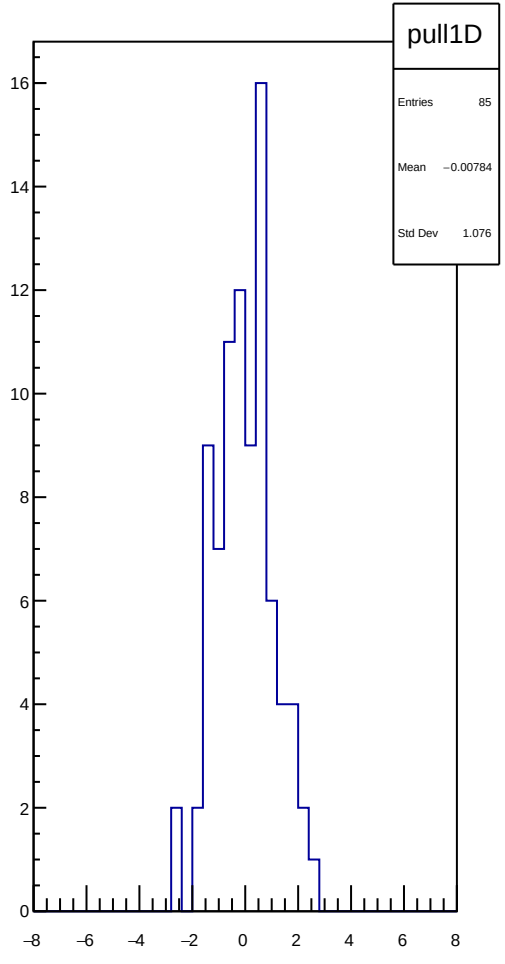

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1132 / 84
p0 269.1 ± 0.2118
290
285
280
275
270
265
260
255
250

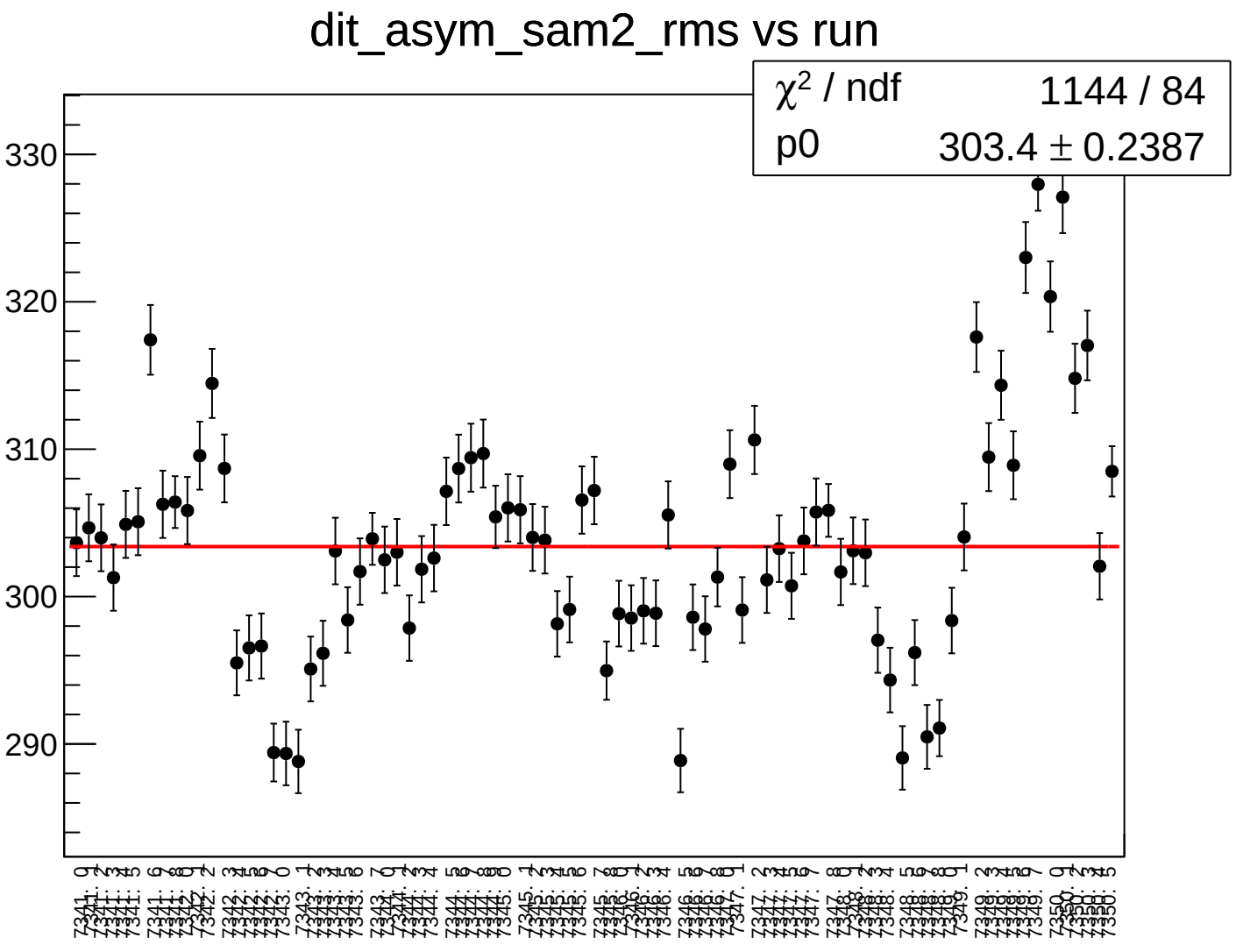

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 75.13 / 84
p0 −242.5 ± 2191
×10³
pull
Entries 85
Mean −153.6
Std Dev 0

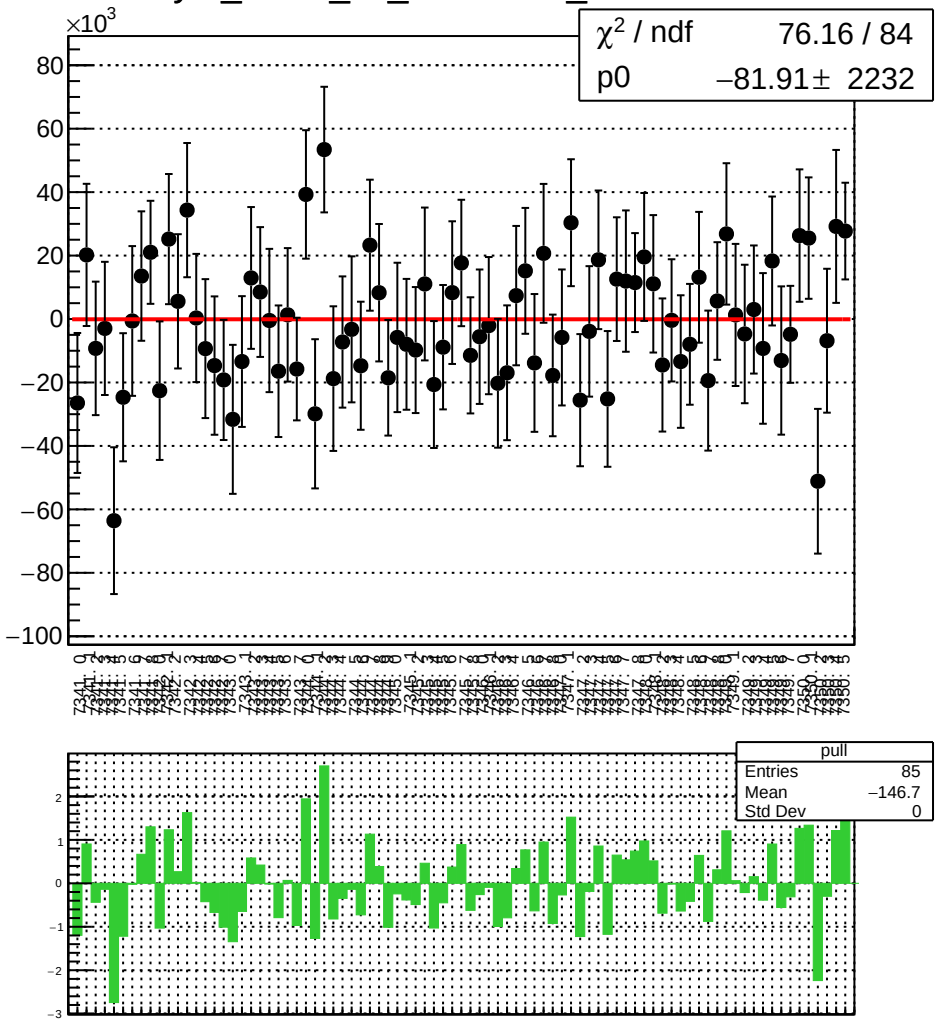

pull1D
Entries 85
Mean −0.01767
Std Dev 0.94

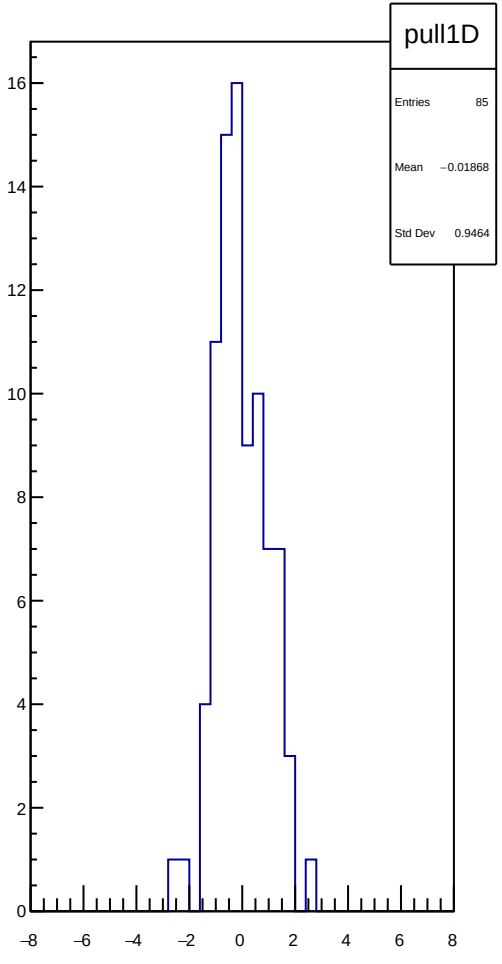

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 5744 / 84
p0 1966 ± 1.549
2300
2200
2100
2000
1900
1800
1700

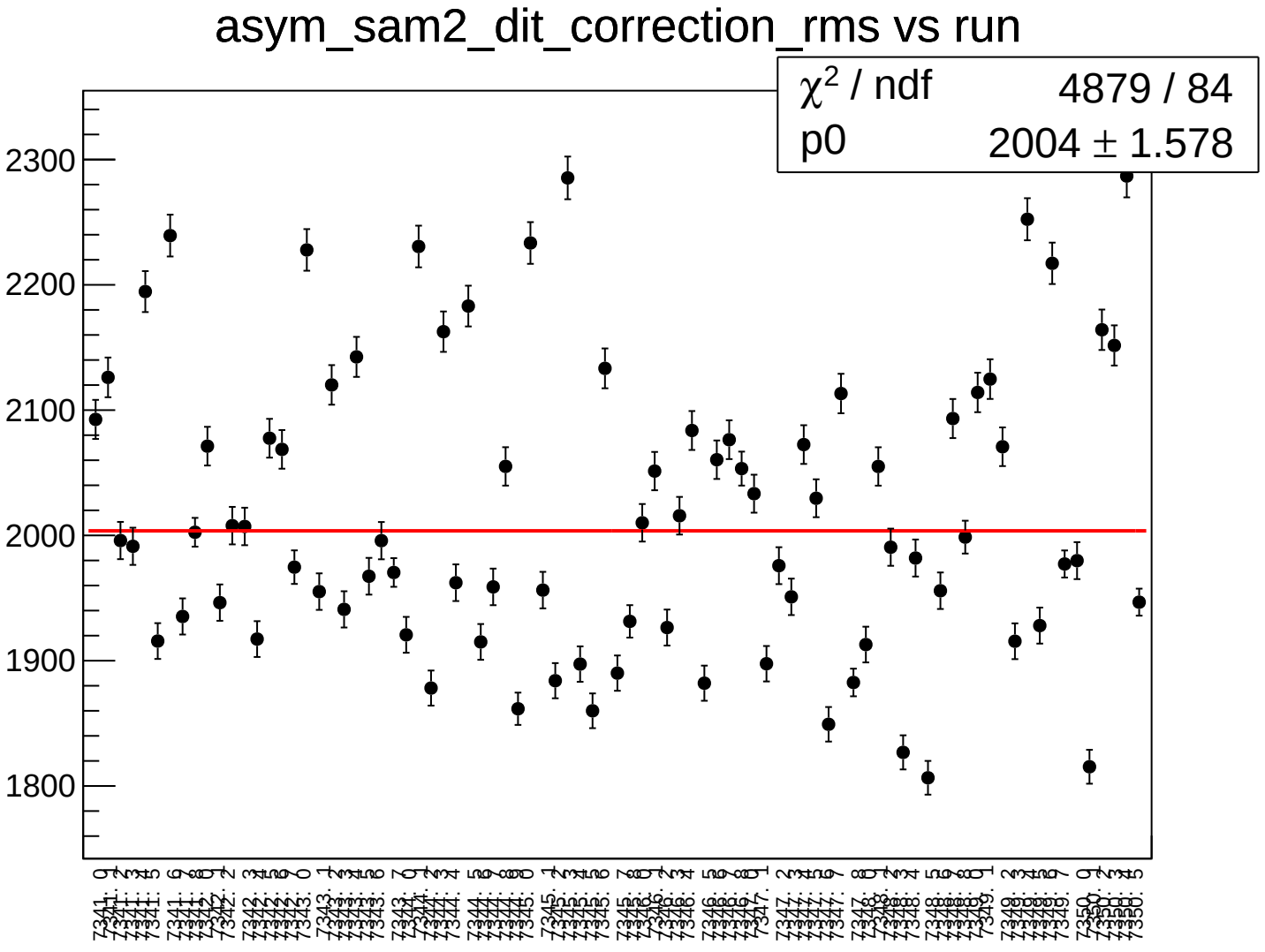

dit_asym_sam2_mean vs run
χ² / ndf 98.43 / 84
p0 −84.32 ± 337.6
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 141.4
Std Dev 0
3
2
1
0
−1
−2

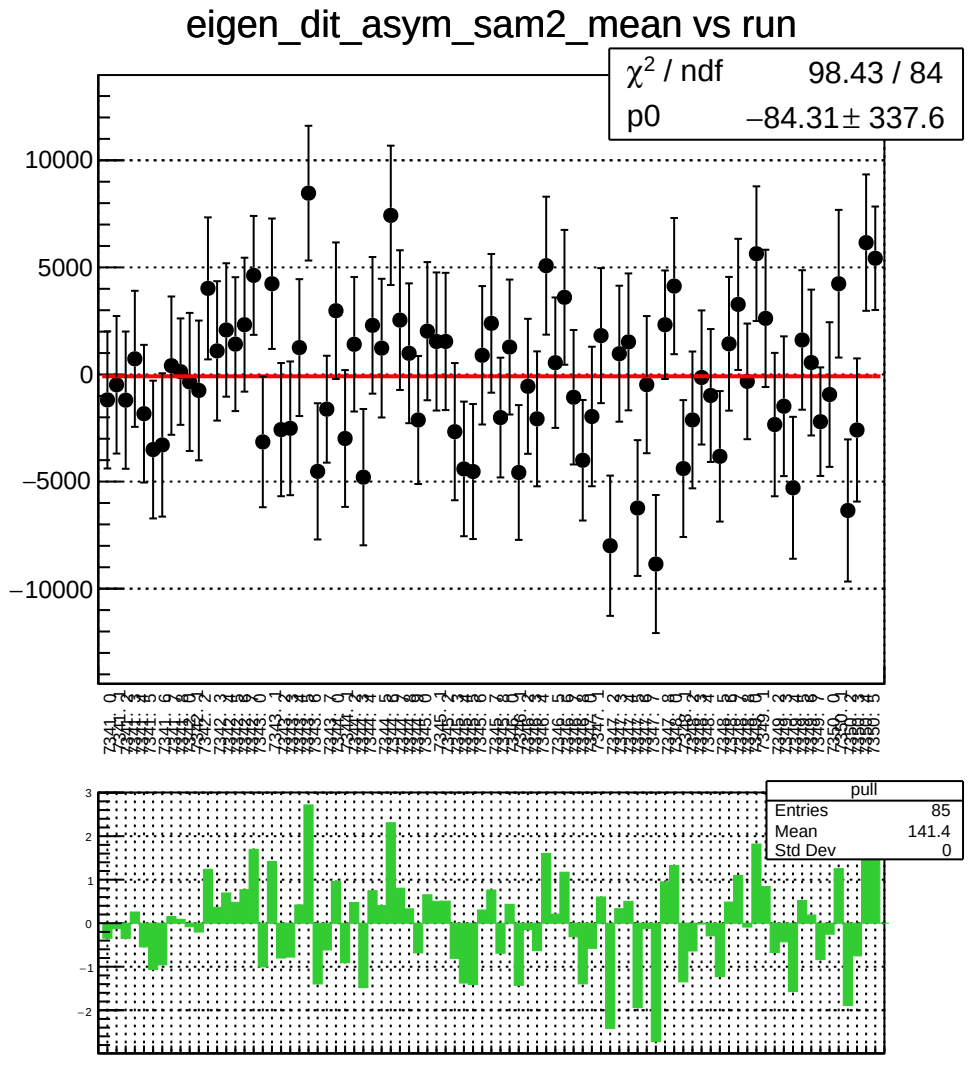

pull1D
Entries 85
Mean −0.00784
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

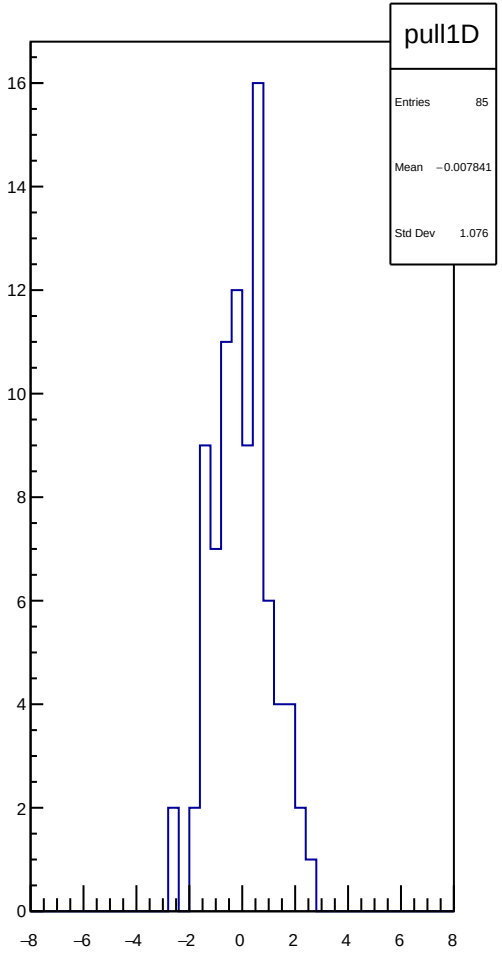

dit_asym_sam2_rms vs run
χ² / ndf 1144 / 84
p0 303.4 ± 0.2387
330
320
310
300
290

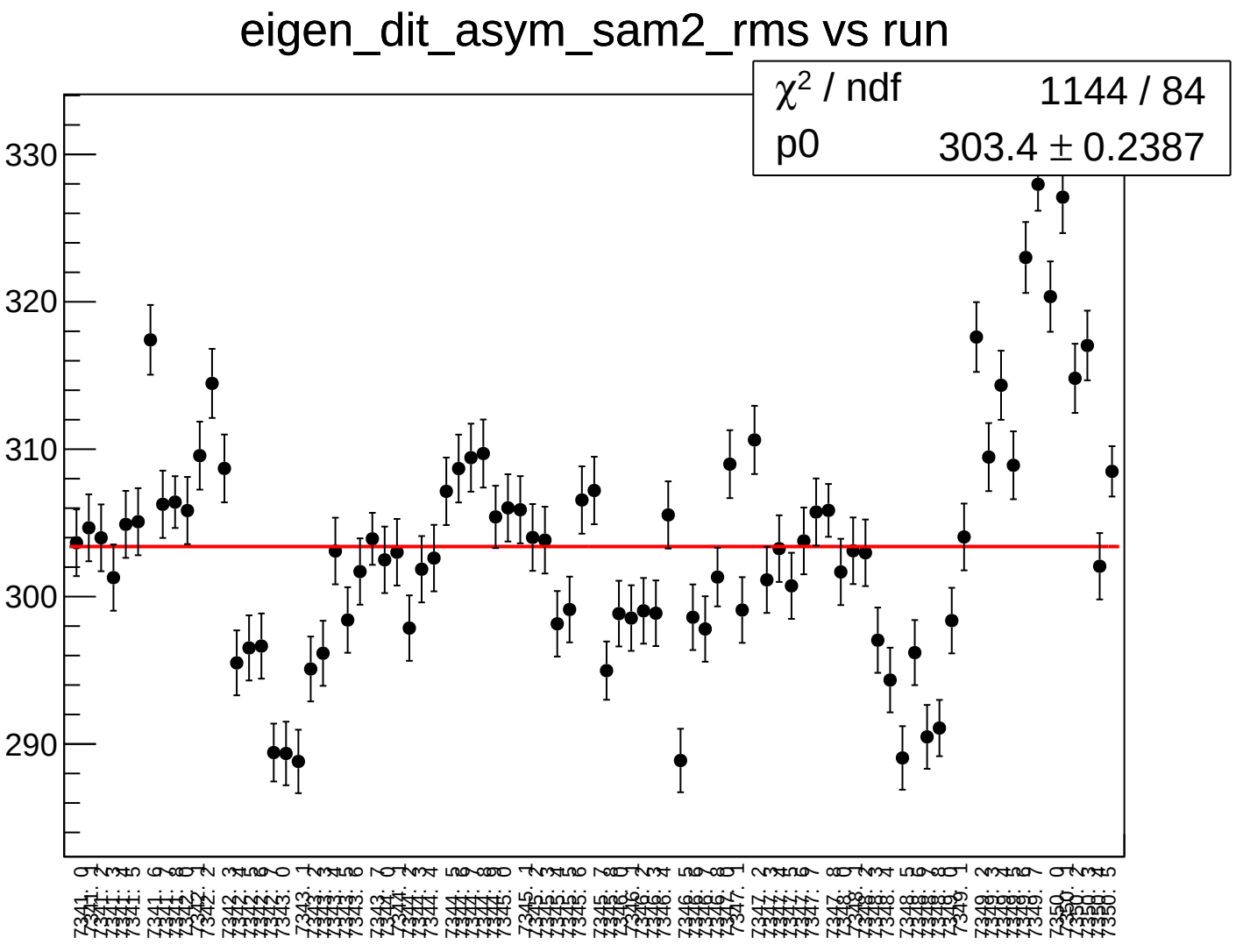

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 76.16 / 84
p0 −81.91± 2232
pull
Entries 85
Mean −146.7
Std Dev 0

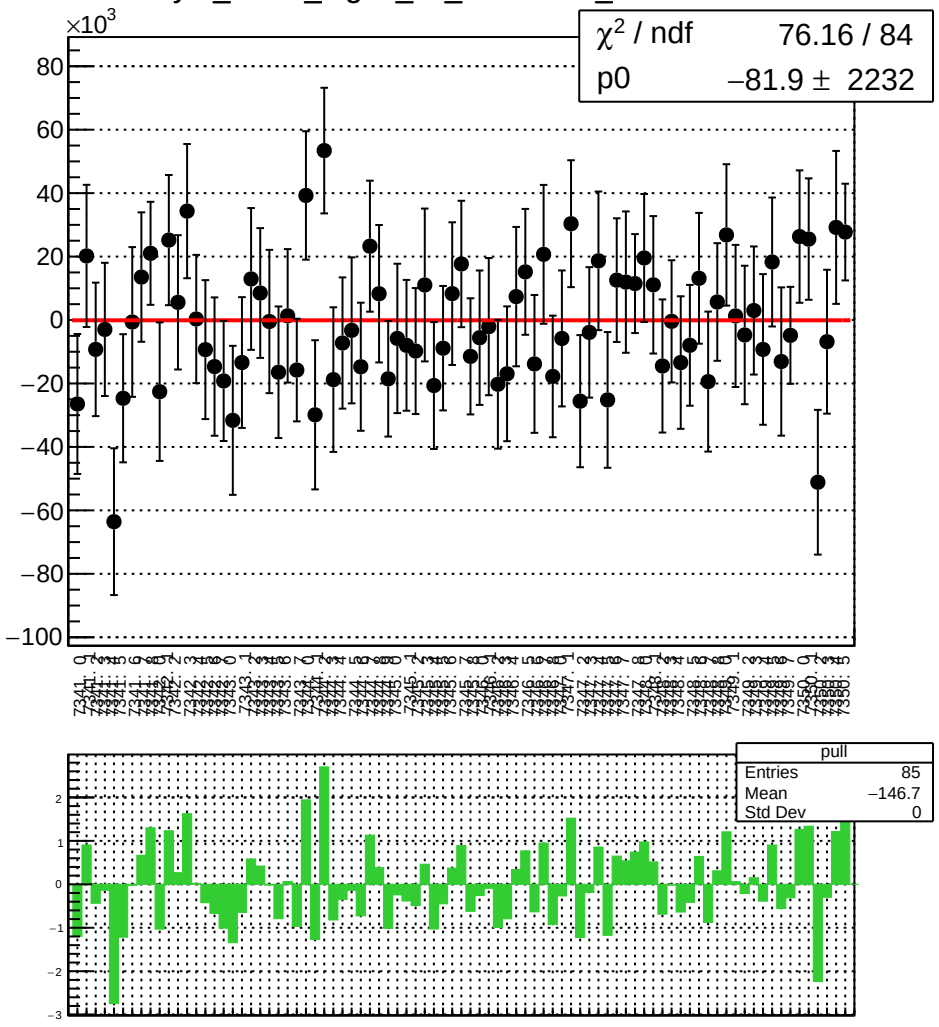

pull1D
Entries 85
Mean −0.01868
Std Dev 0.9464

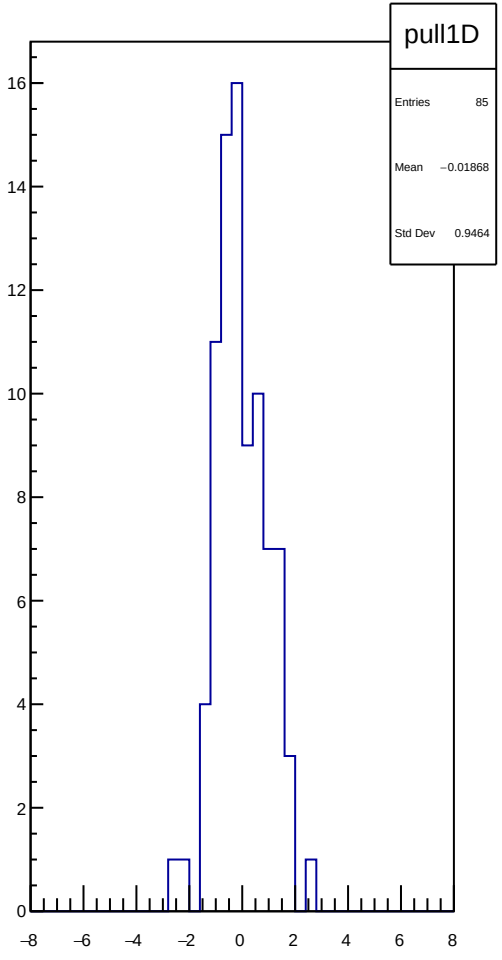

asym_sam2_dit_correction_rms vs run
χ² / ndf 4879 / 84
p0 2004 ± 1.578
2300
2200
2100
2000
1900
1800

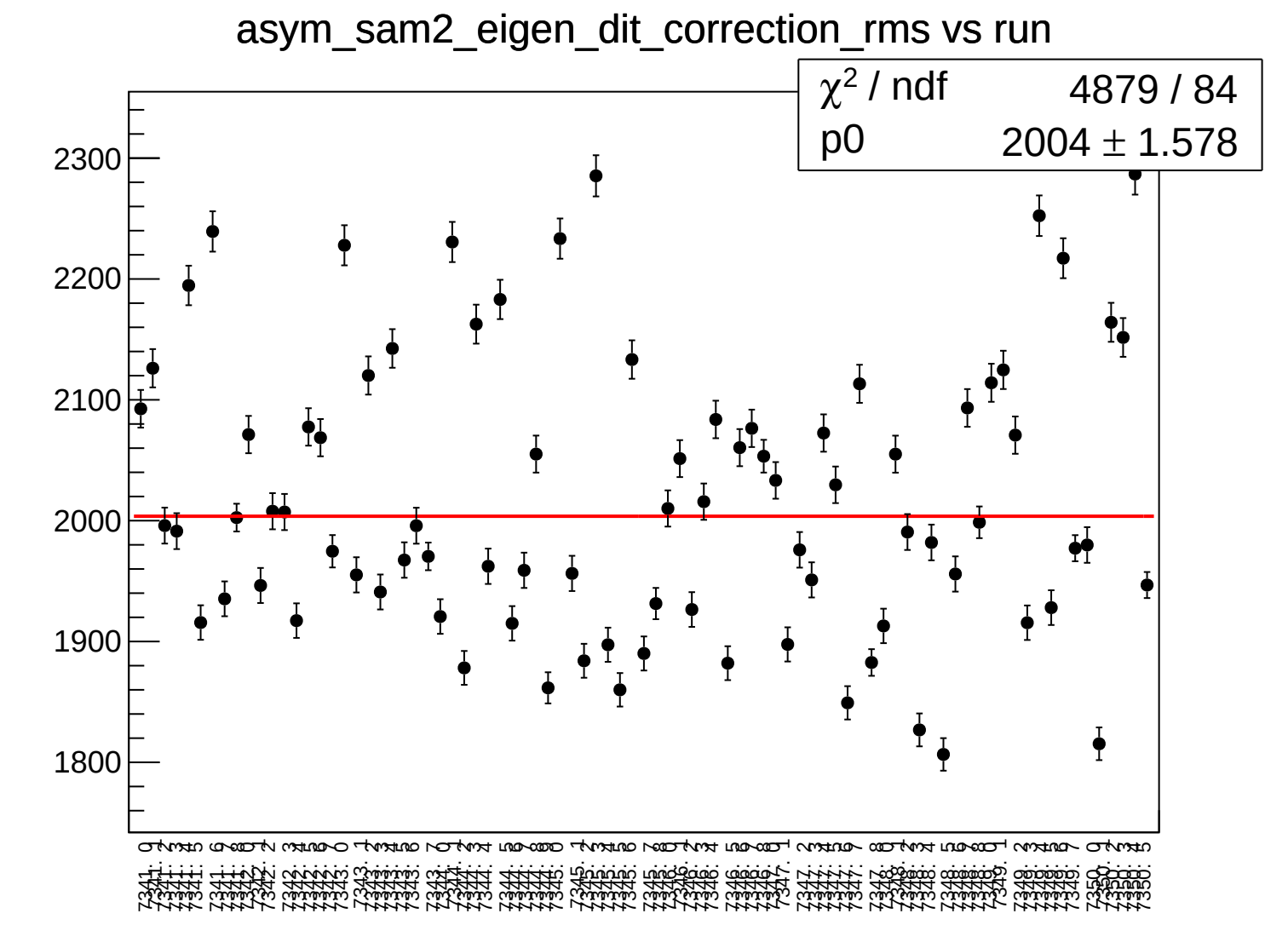

eigen_dit_asym_sam2_mean vs run
χ^2 / ndf 98.43 / 84
p0 −84.31± 337.6
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 141.4
Std Dev 0
3
2
1
0
−1
−2

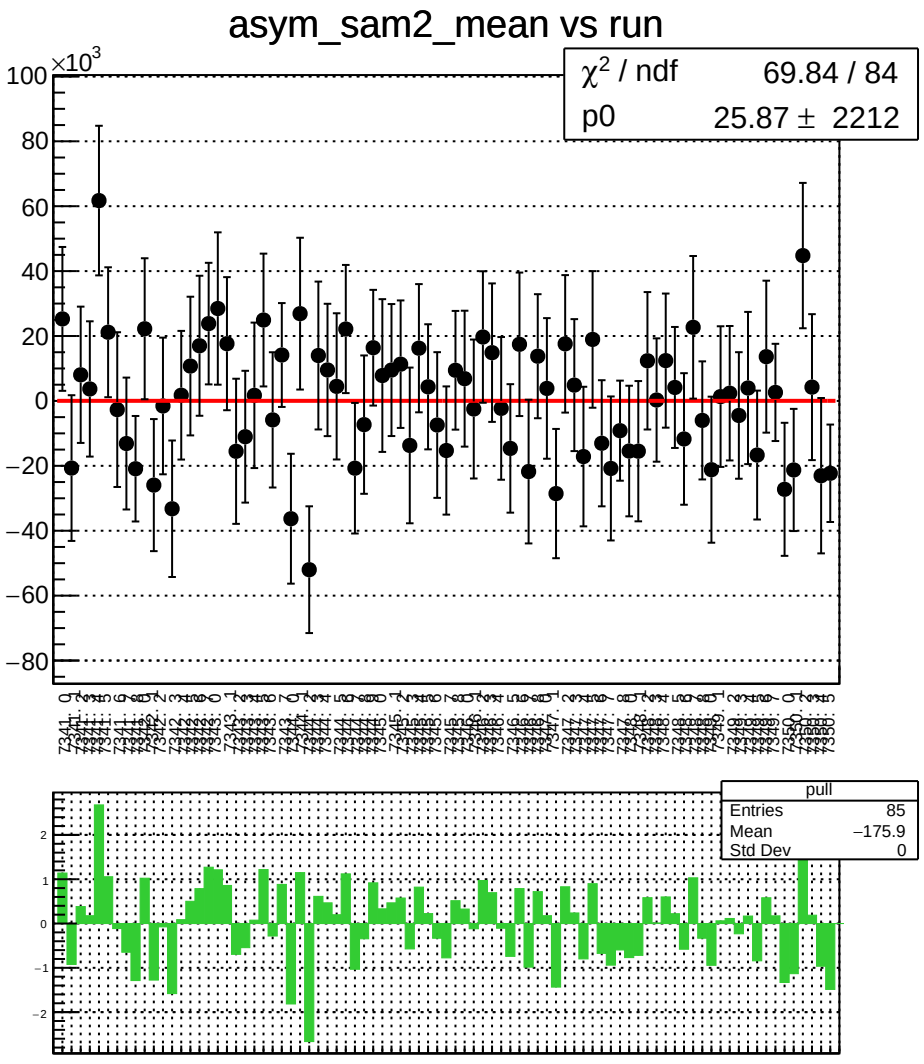

pull1D
Entries 85
Mean −0.007841
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

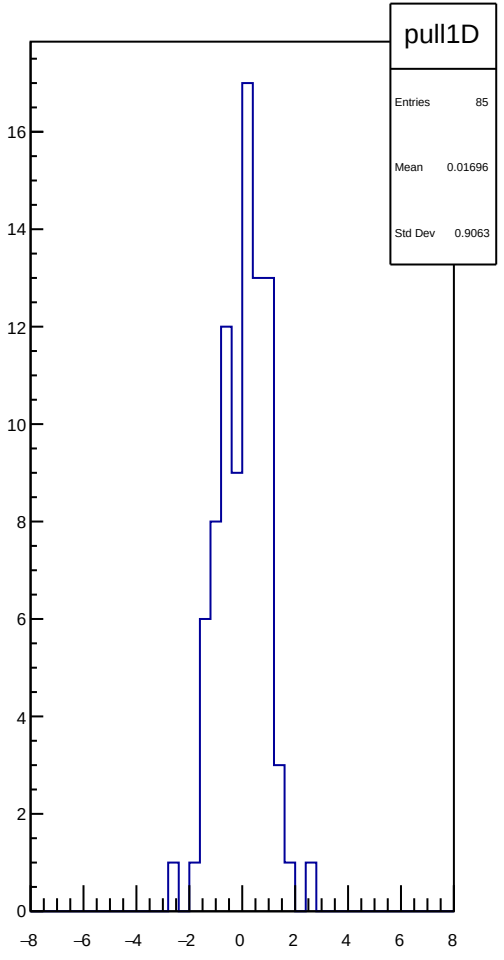

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1144 / 84
p0 303.4 ± 0.2387
330
320
310
300
290

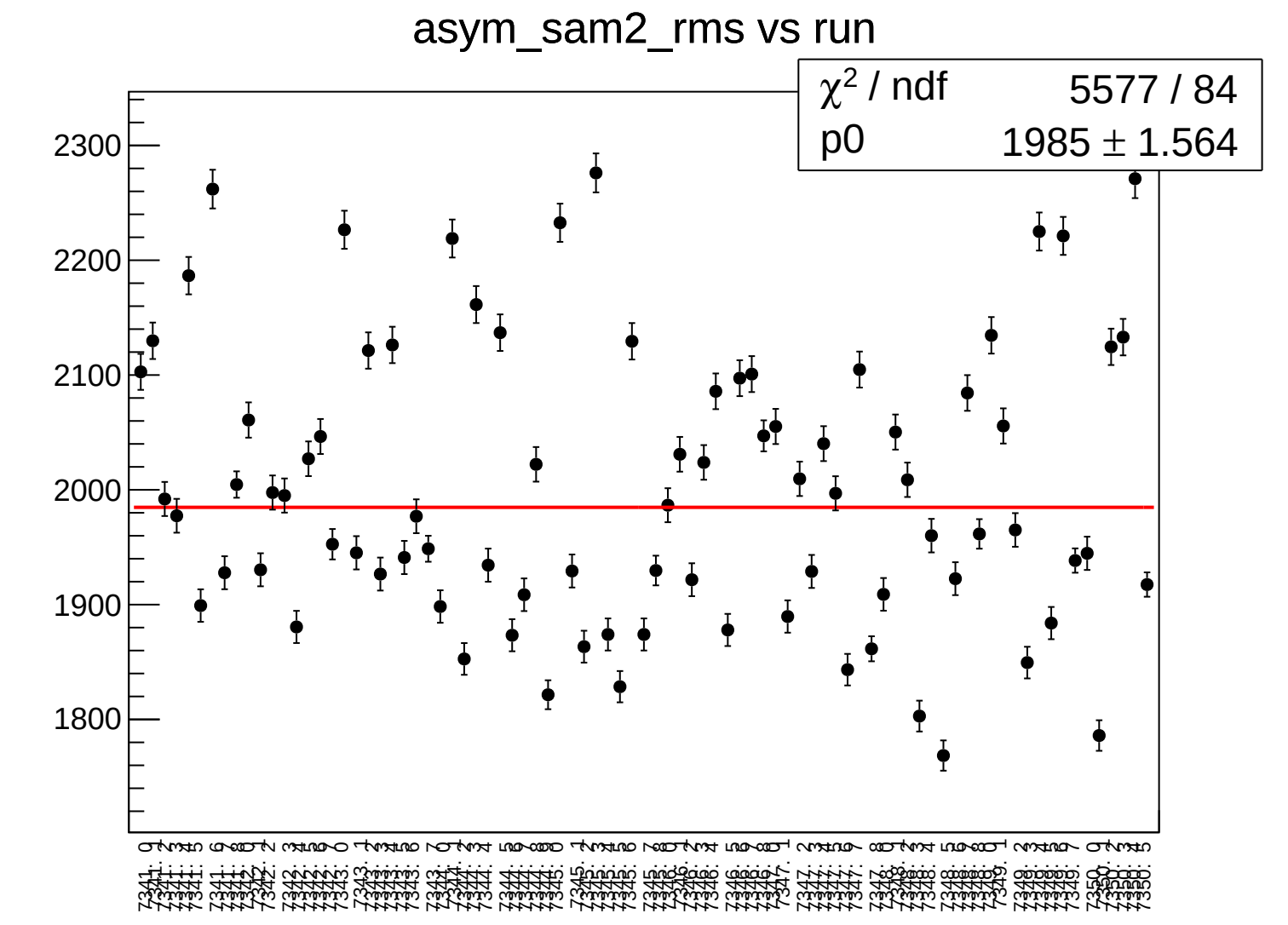

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 76.16 / 84
p0 −81.9 ± 2232
×10³
pull
Entries 85
Mean −146.7
Std Dev 0

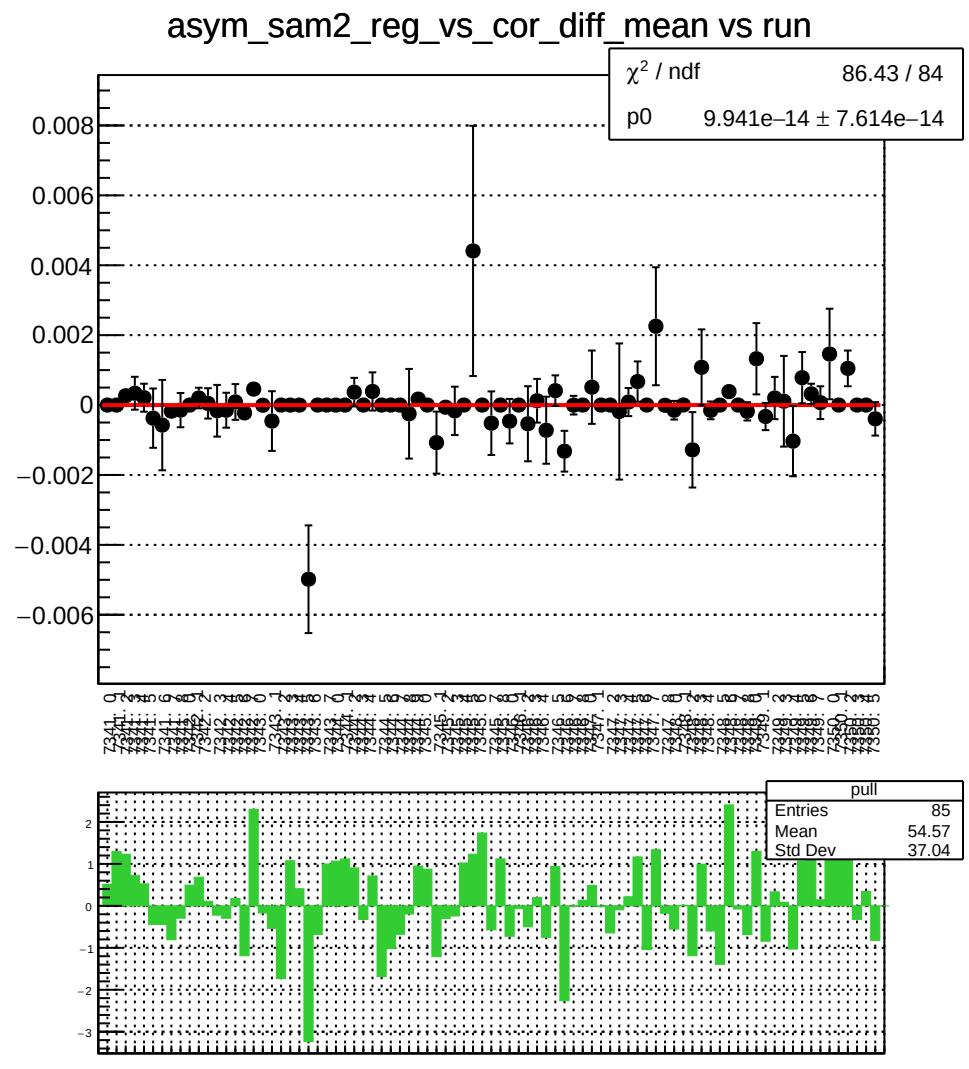

pull1D
Entries 85
Mean −0.01868
Std Dev 0.9464

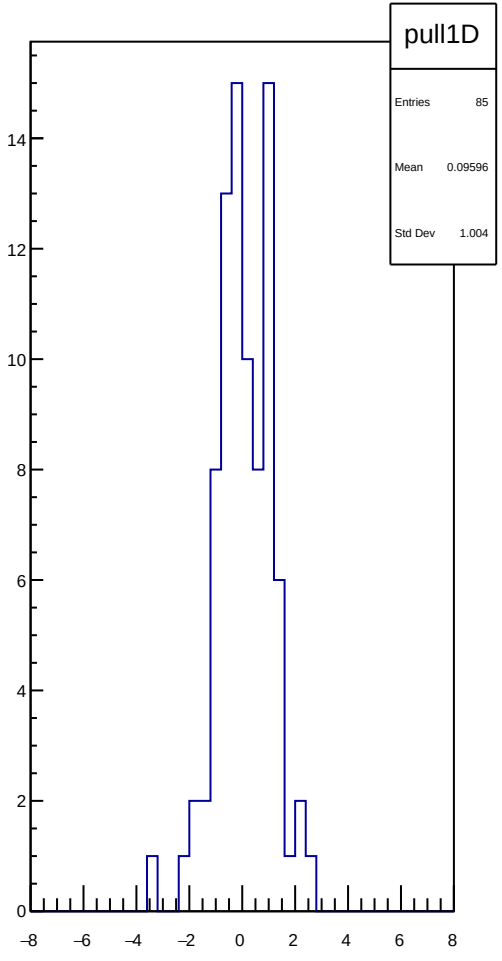

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 4879 / 84
p0 2004 ± 1.578
2300
2200
2100
2000
1900
1800

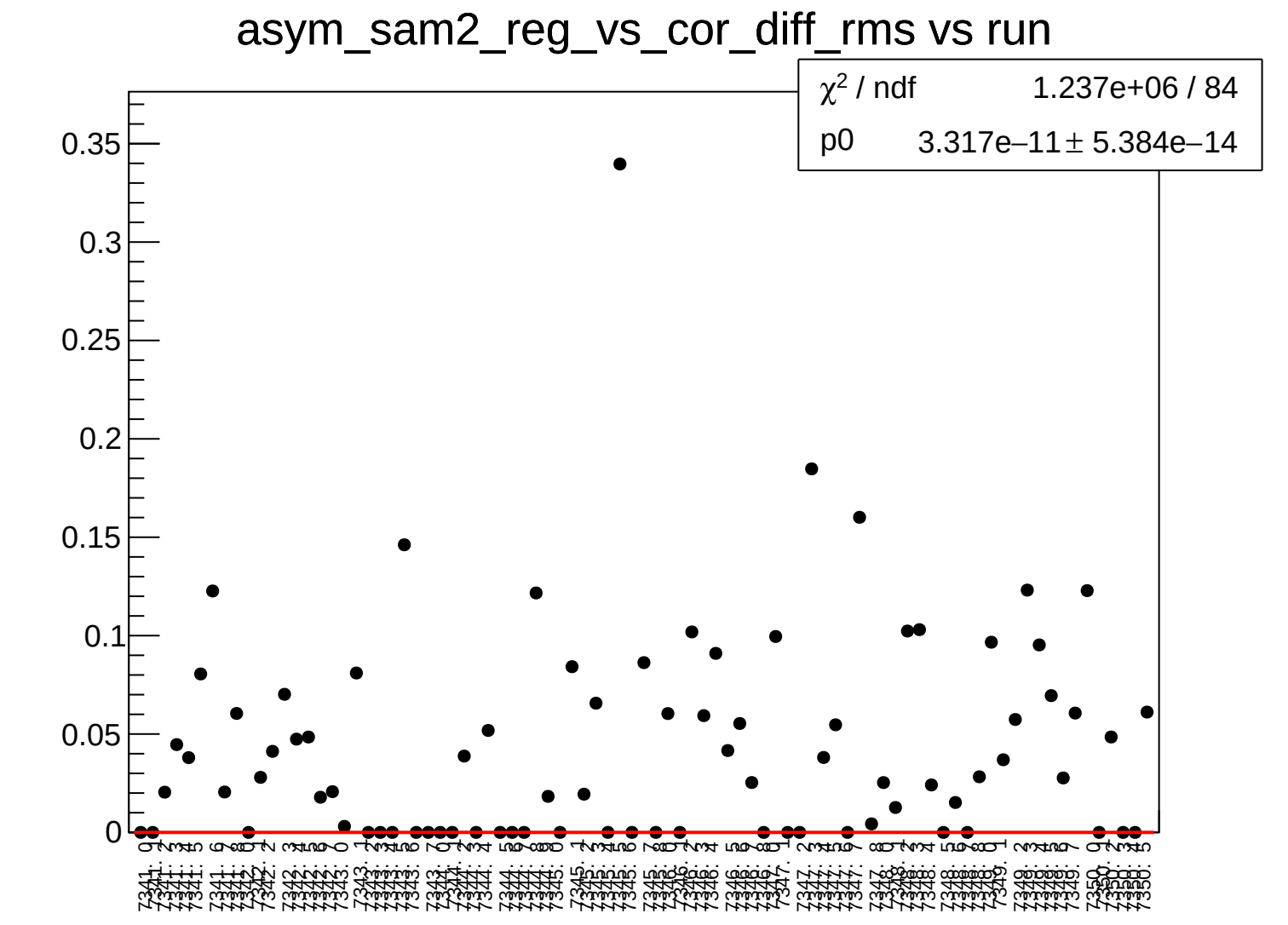

asym_sam2_mean vs run
χ^2 / ndf 69.84 / 84
p0 25.87 ± 2212
pull
Entries 85
Mean −175.9
Std Dev 0

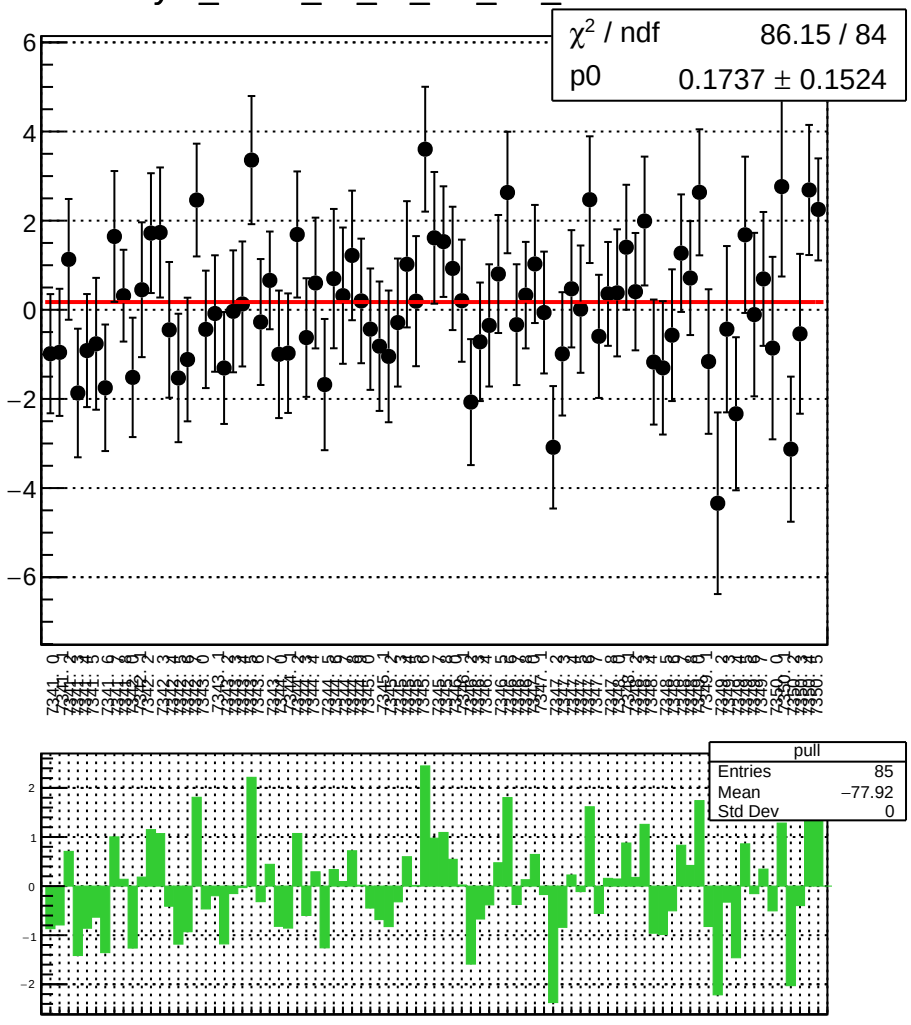

pull1D
Entries 85
Mean 0.01696
Std Dev 0.9063

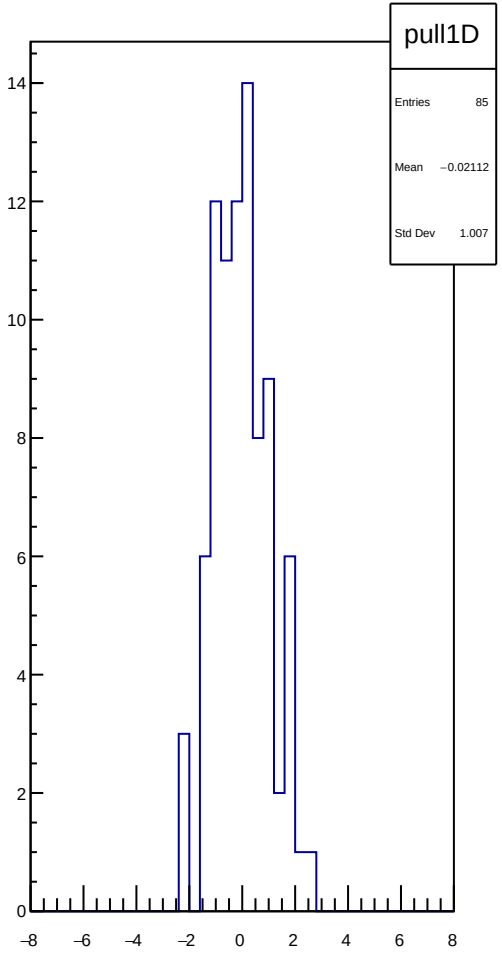

asym_sam2_rms vs run
χ² / ndf 5577 / 84
p0 1985 ± 1.564
2300
2200
2100
2000
1900
1800

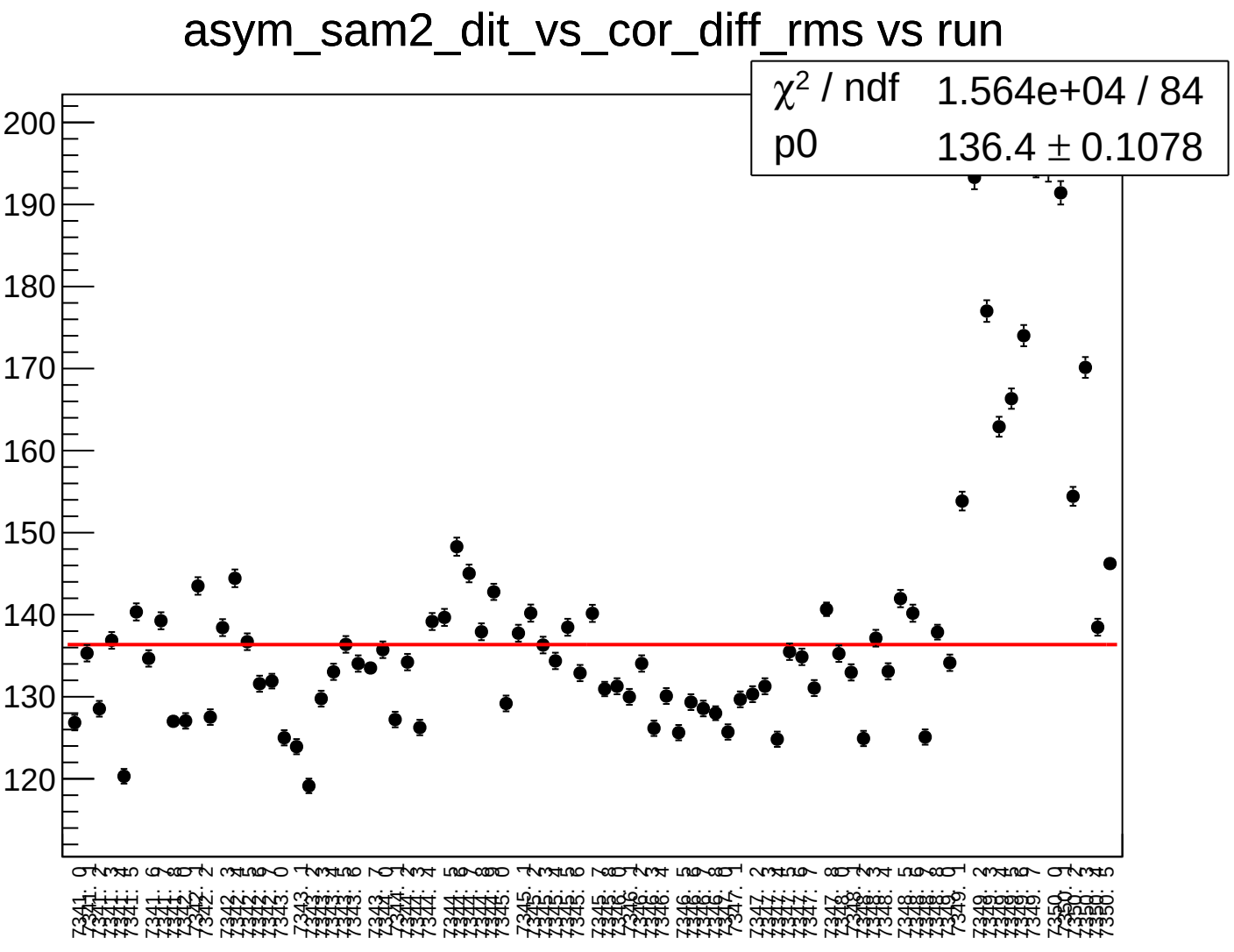

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 86.43 / 84
p0 9.941e−14 ± 7.614e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 85
Mean 54.57
Std Dev 37.04
2
1
0
−1
−2
−3

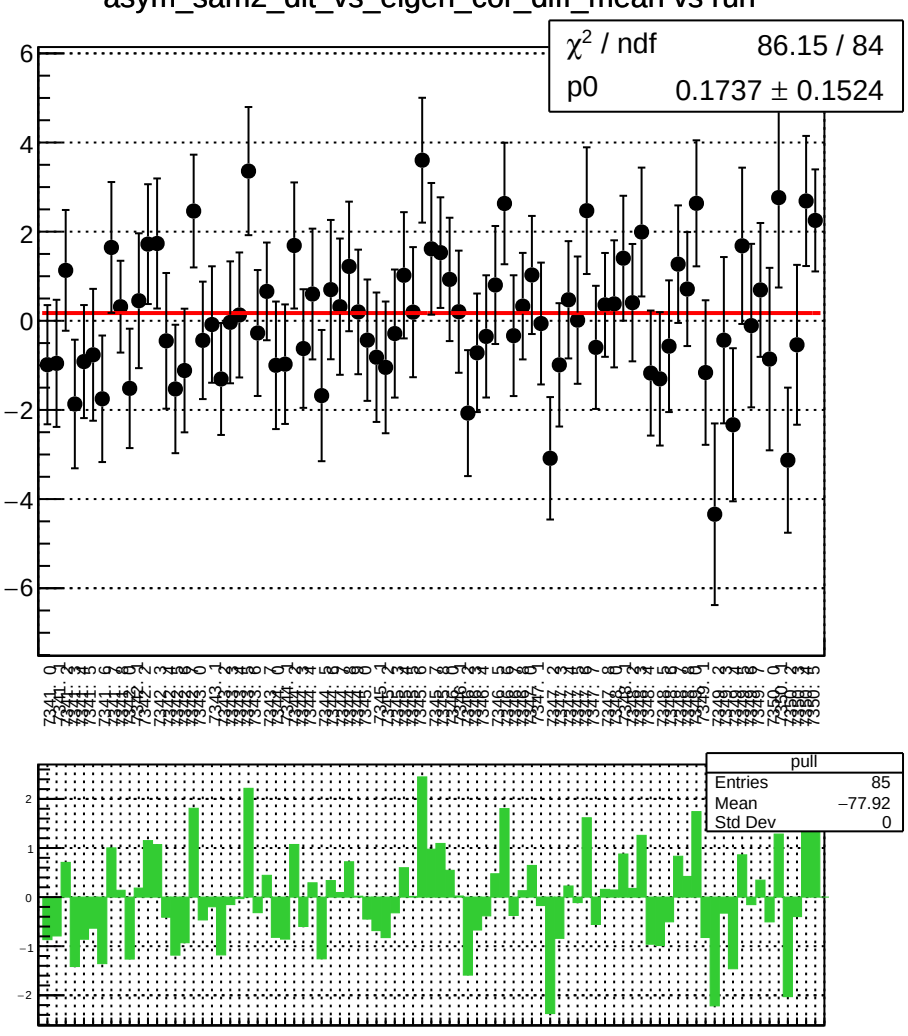

pull1D
Entries 85
Mean 0.09596
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

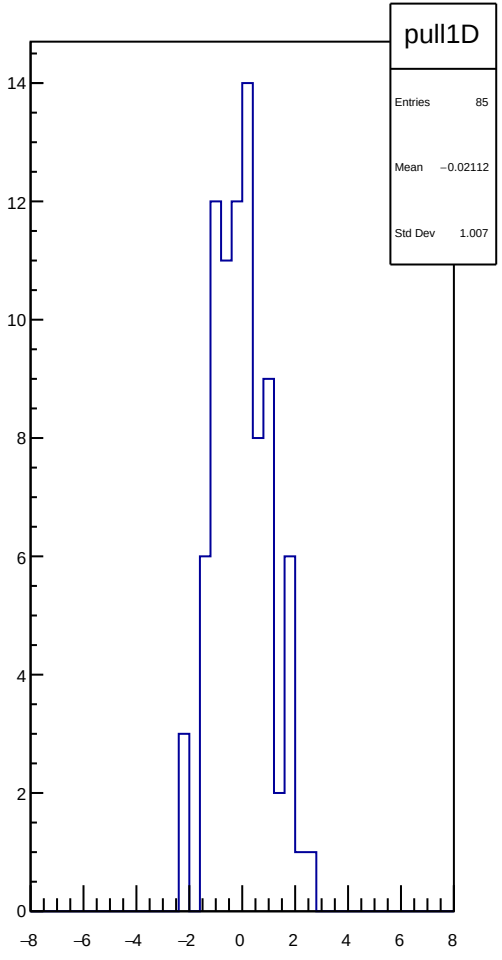

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.237e+06 / 84
p0 3.317e−11 ± 5.384e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

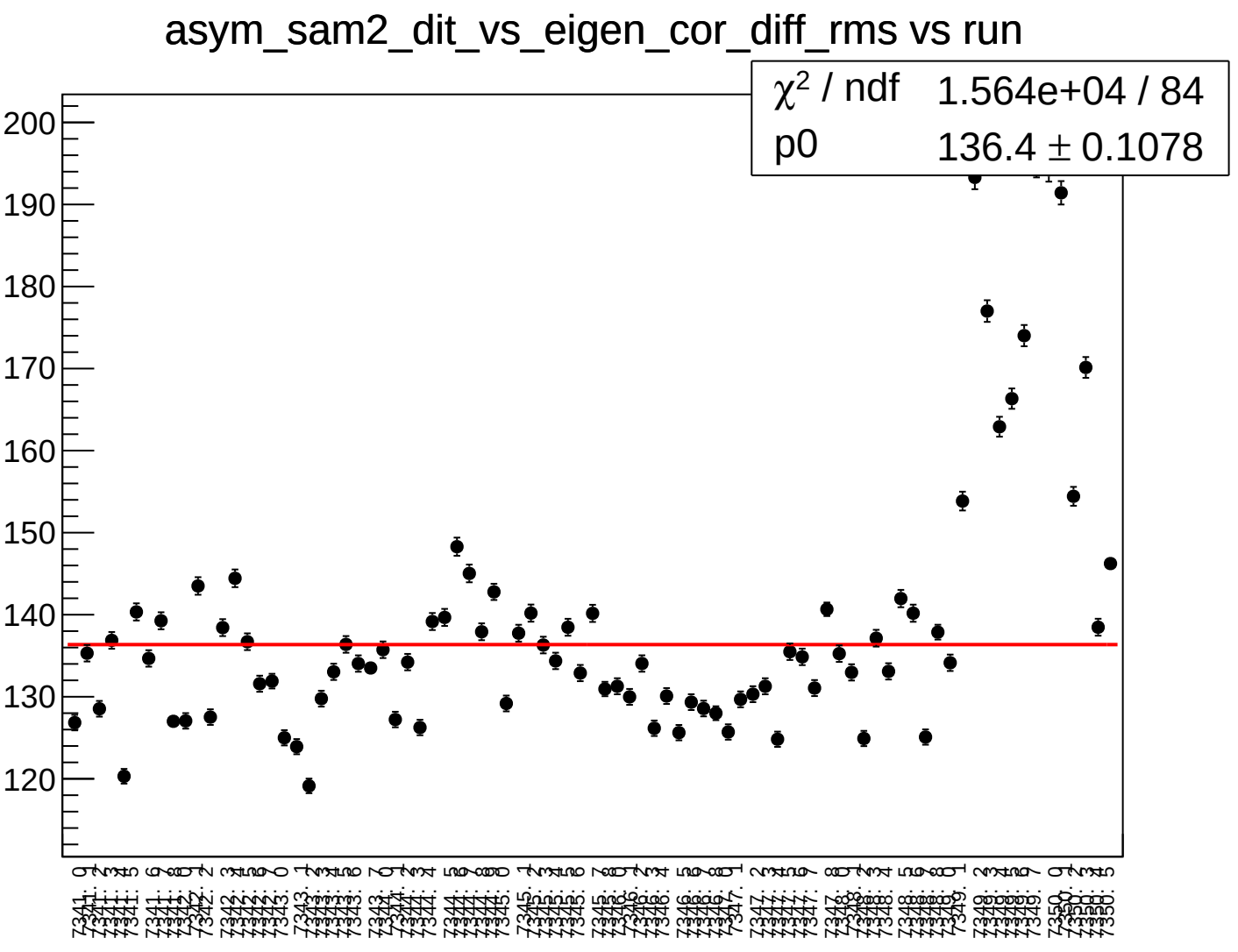

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 86.15 / 84
p0 0.1737 ± 0.1524
pull
Entries 85
Mean −77.92
Std Dev 0

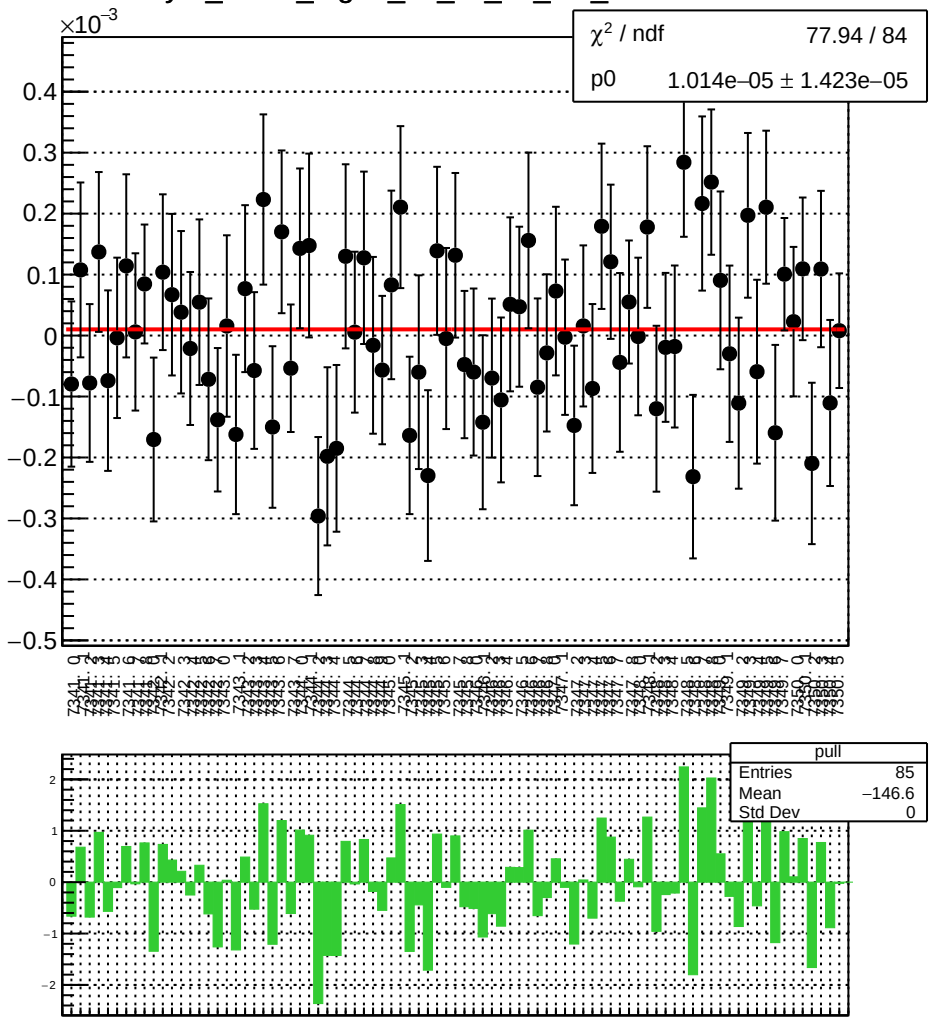

pull1D
Entries 85
Mean −0.02112
Std Dev 1.007

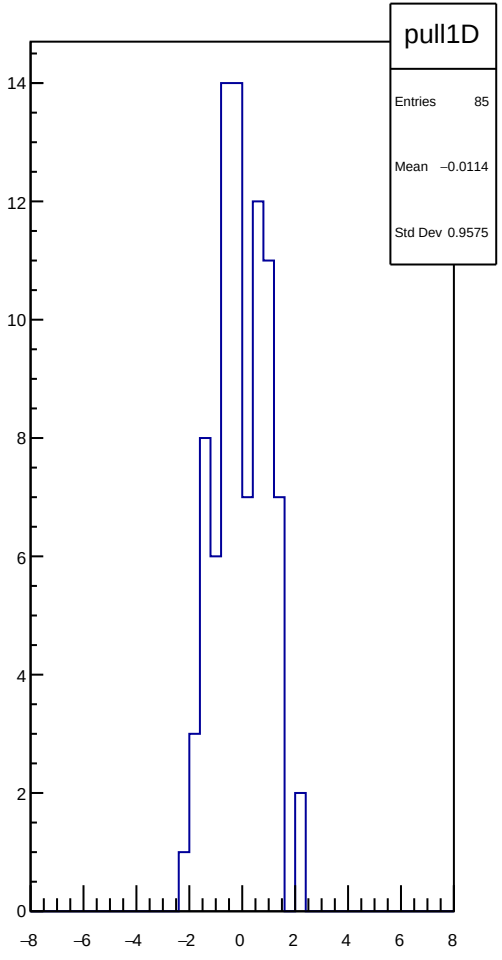

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.564e+04 / 84
p0 136.4 ± 0.1078
200
190
180
170
160
150
140
130
120

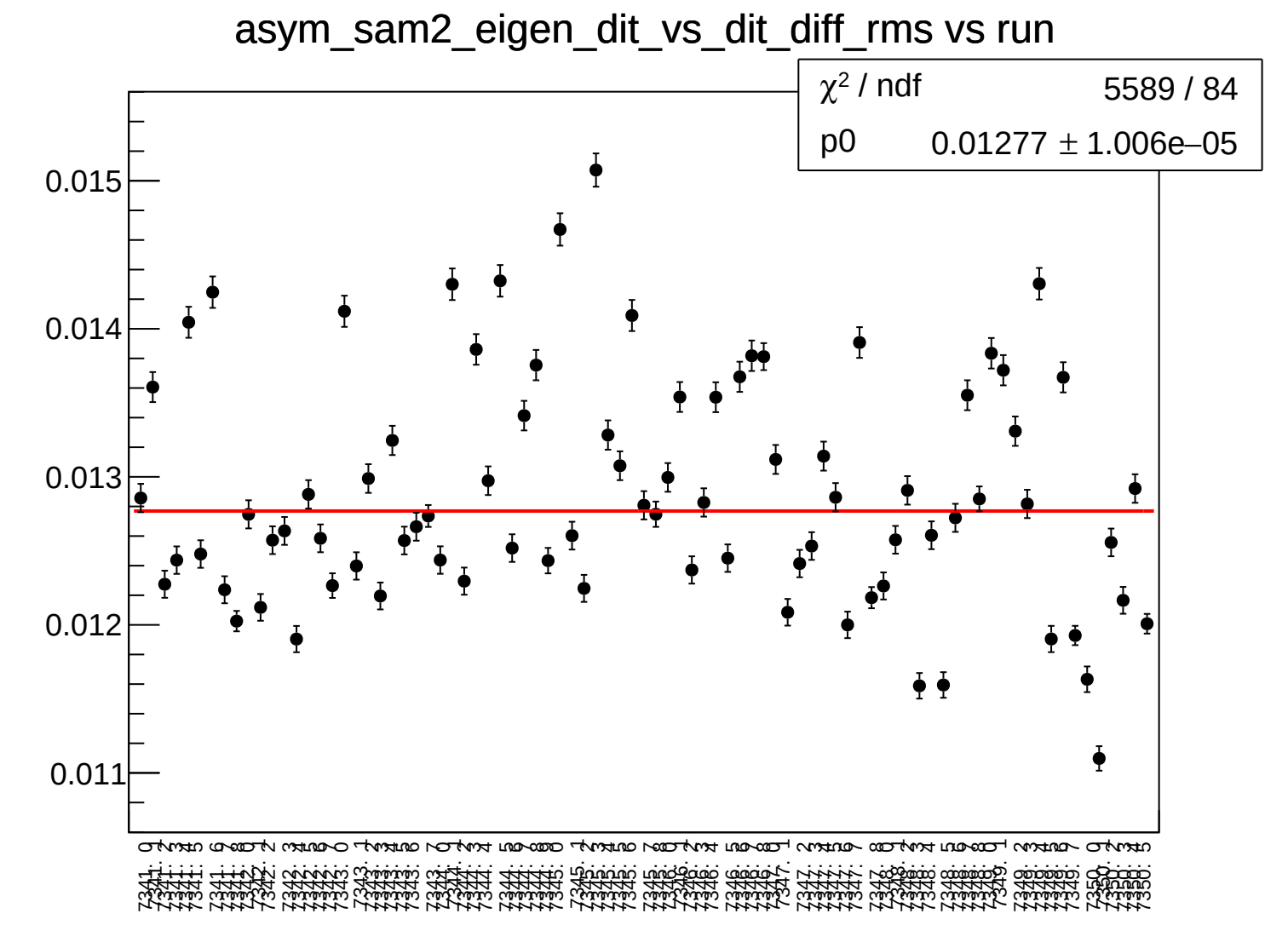

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.15 / 84
p0 0.1737 ± 0.1524
pull
Entries 85
Mean −77.92
Std Dev 0

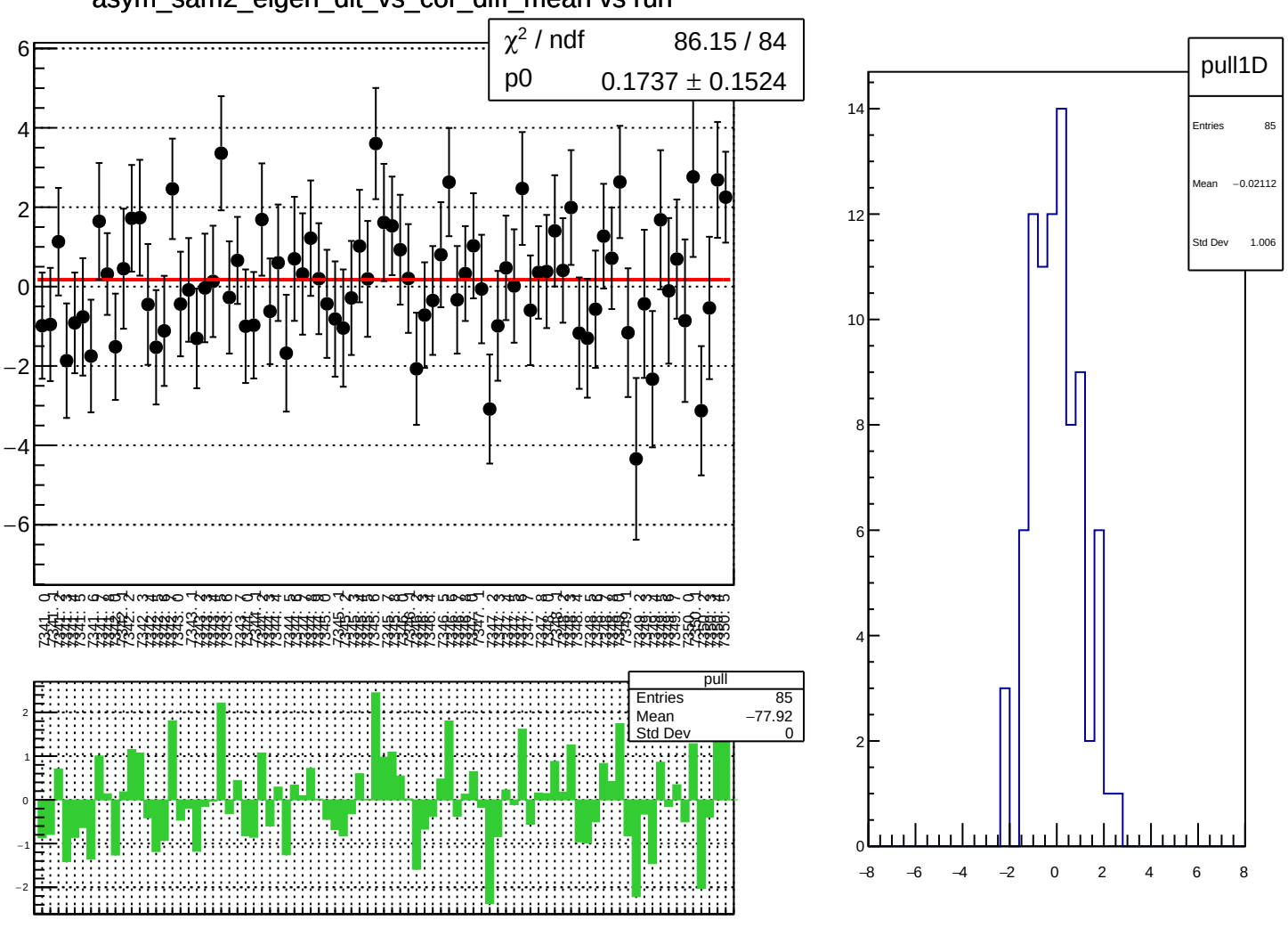

pull1D
Entries 85
Mean −0.02112
Std Dev 1.007

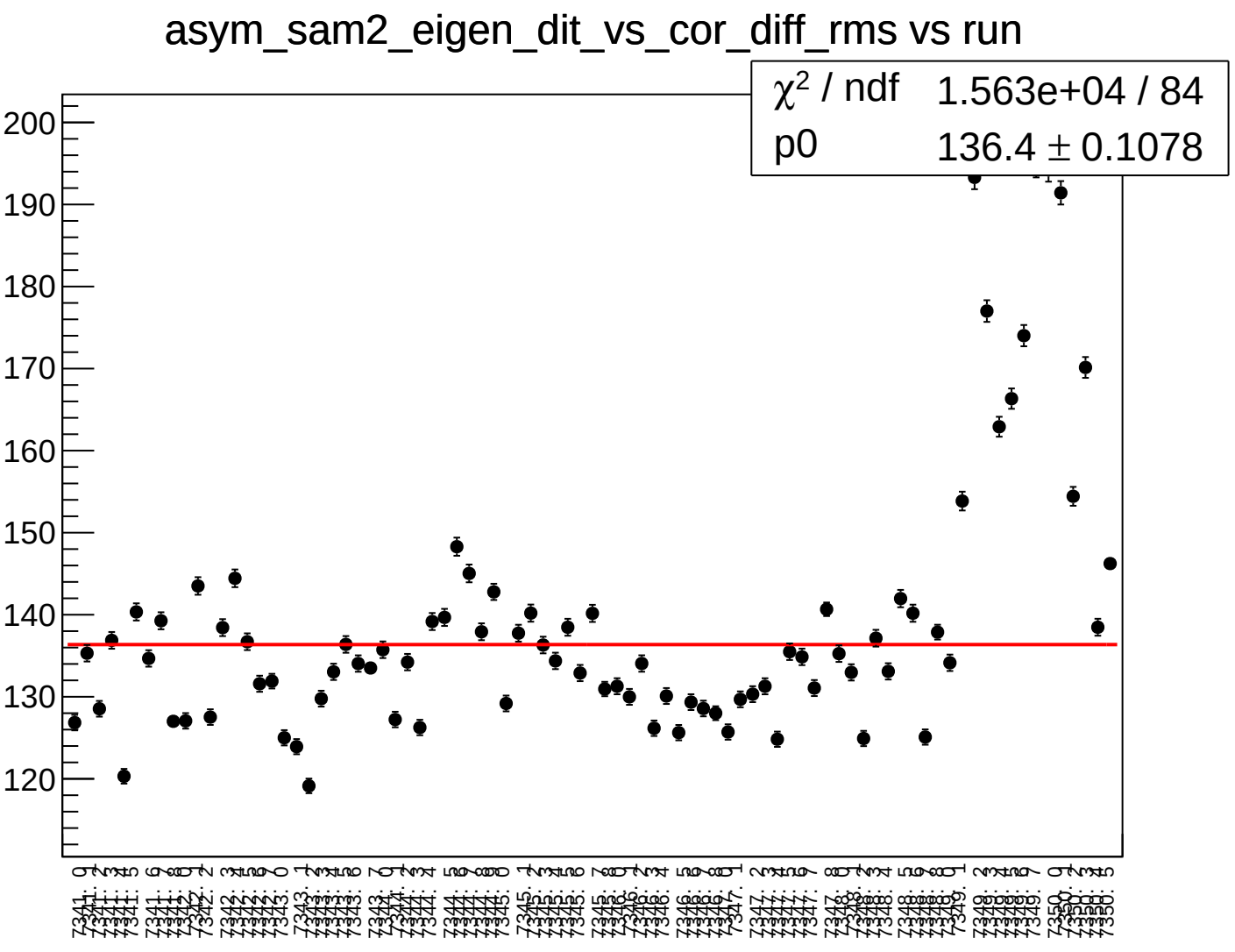

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.564e+04 / 84
p0 136.4 ± 0.1078
200
190
180
170
160
150
140
130
120

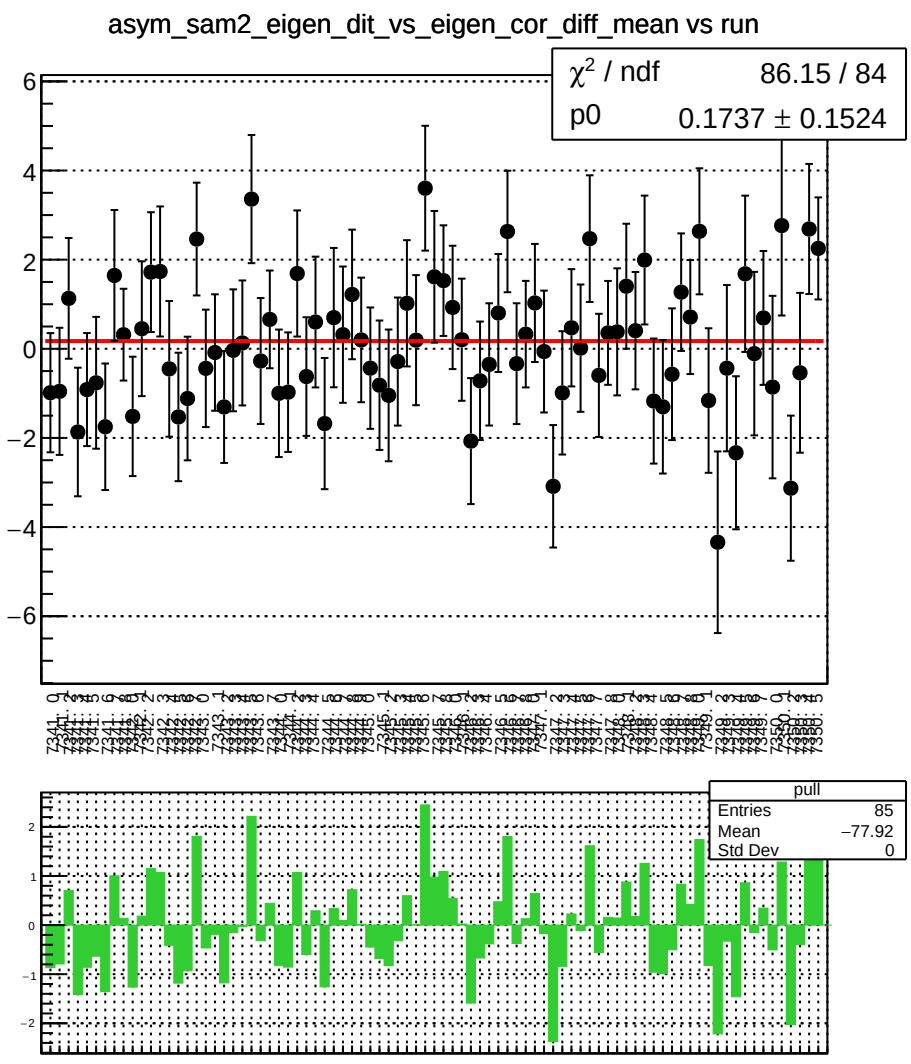

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.94 / 84
p0 1.014e−05 ± 1.423e−05
pull
Entries 85
Mean −146.6
Std Dev 0

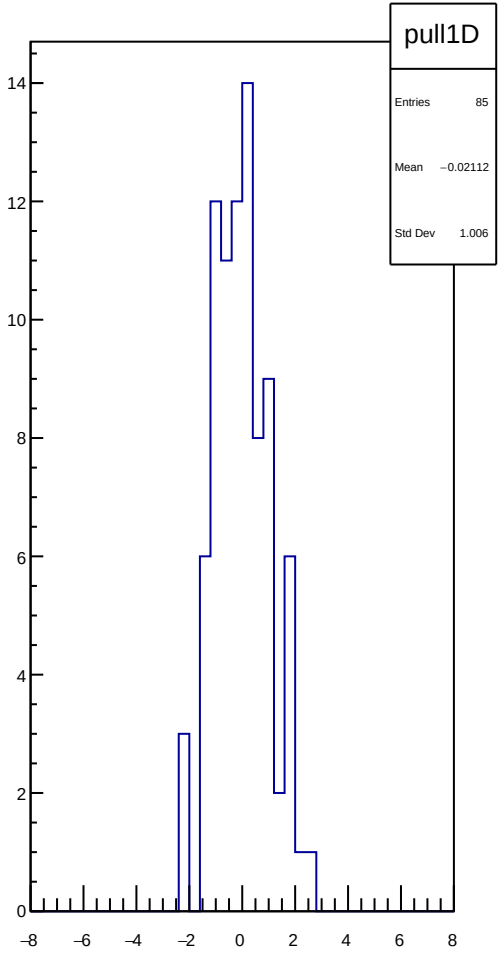

pull1D
Entries 85
Mean −0.0114
Std Dev 0.9575

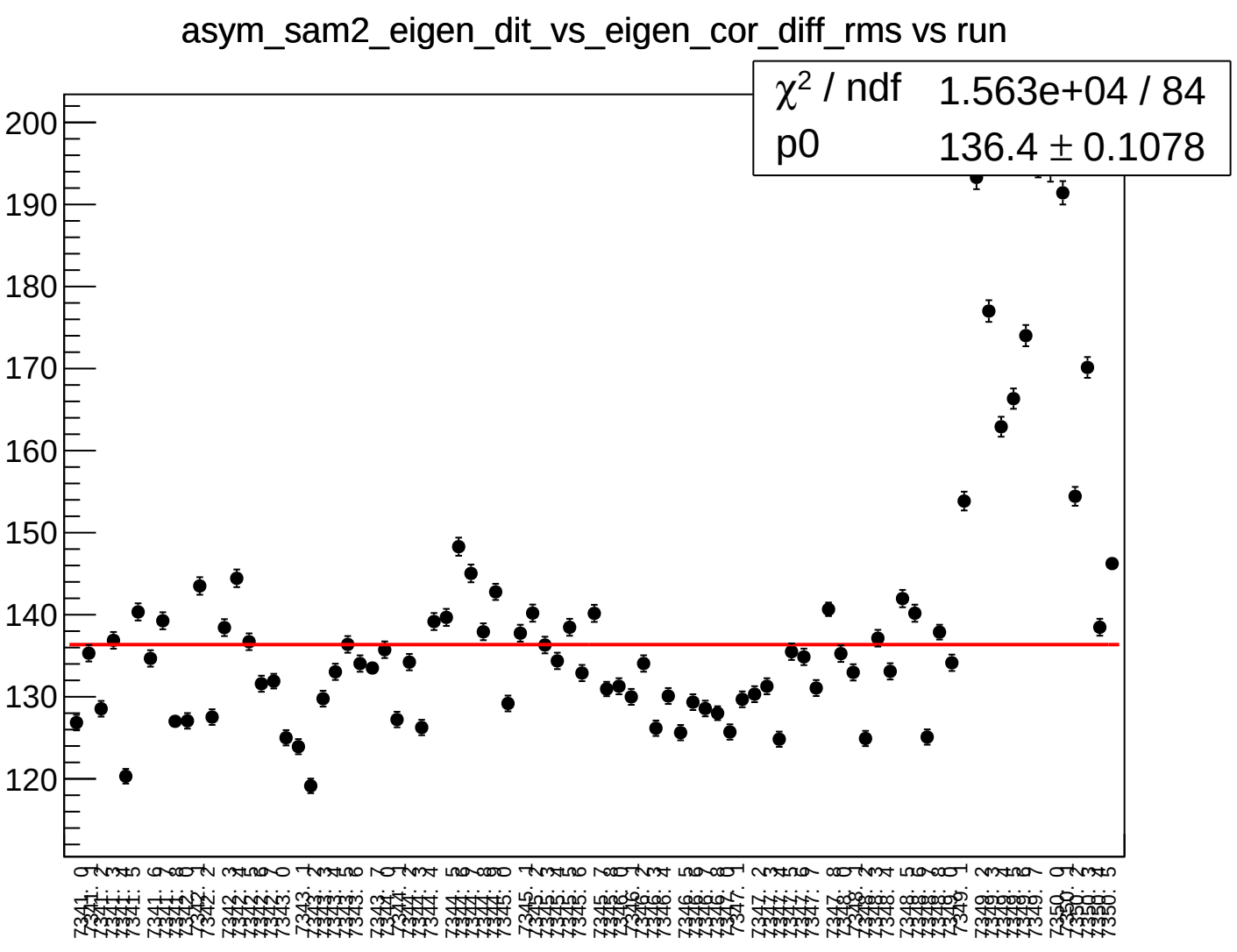

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5589 / 84
p0 0.01277 ± 1.006e–05
0.015
0.014
0.013
0.012
0.011

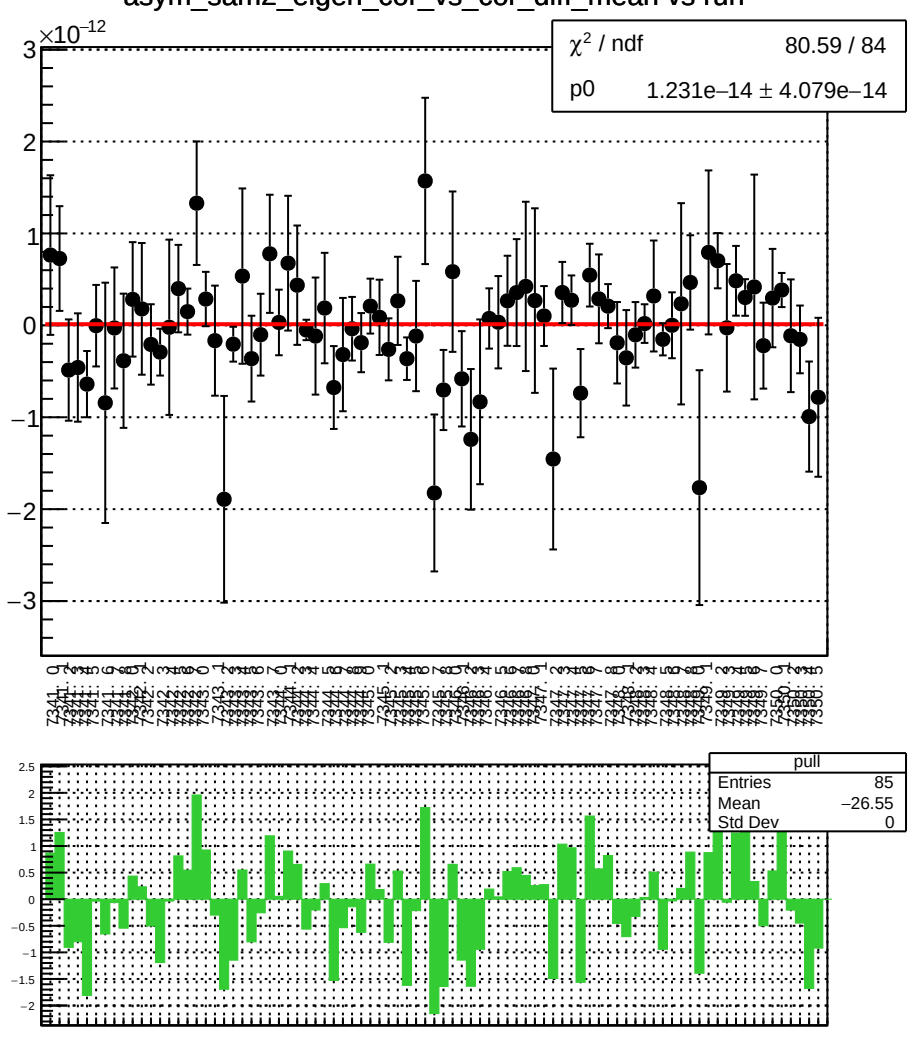

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.15 / 84
p0 0.1737 ± 0.1524
pull
Entries 85
Mean −77.92
Std Dev 0
pull1D
Entries 85
Mean −0.02112
Std Dev 1.006

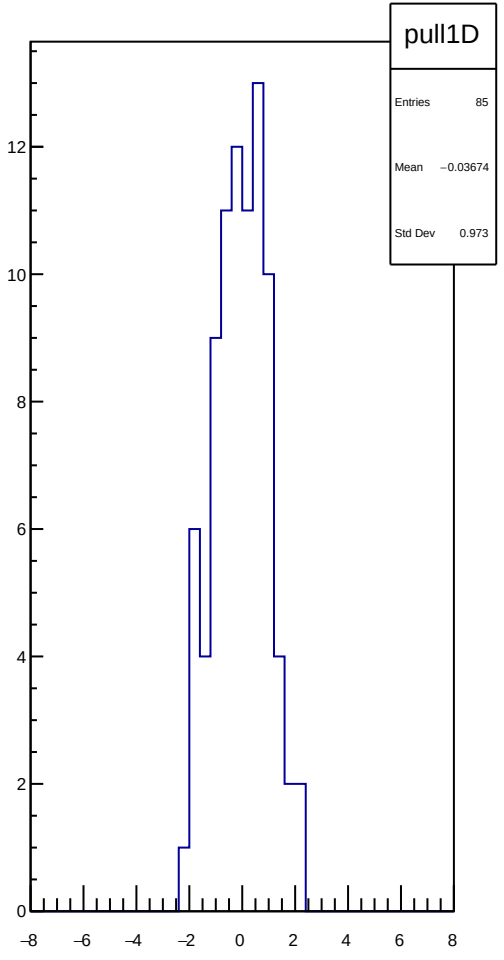

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.563e+04 / 84
p0 136.4 ± 0.1078
200
190
180
170
160
150
140
130
120

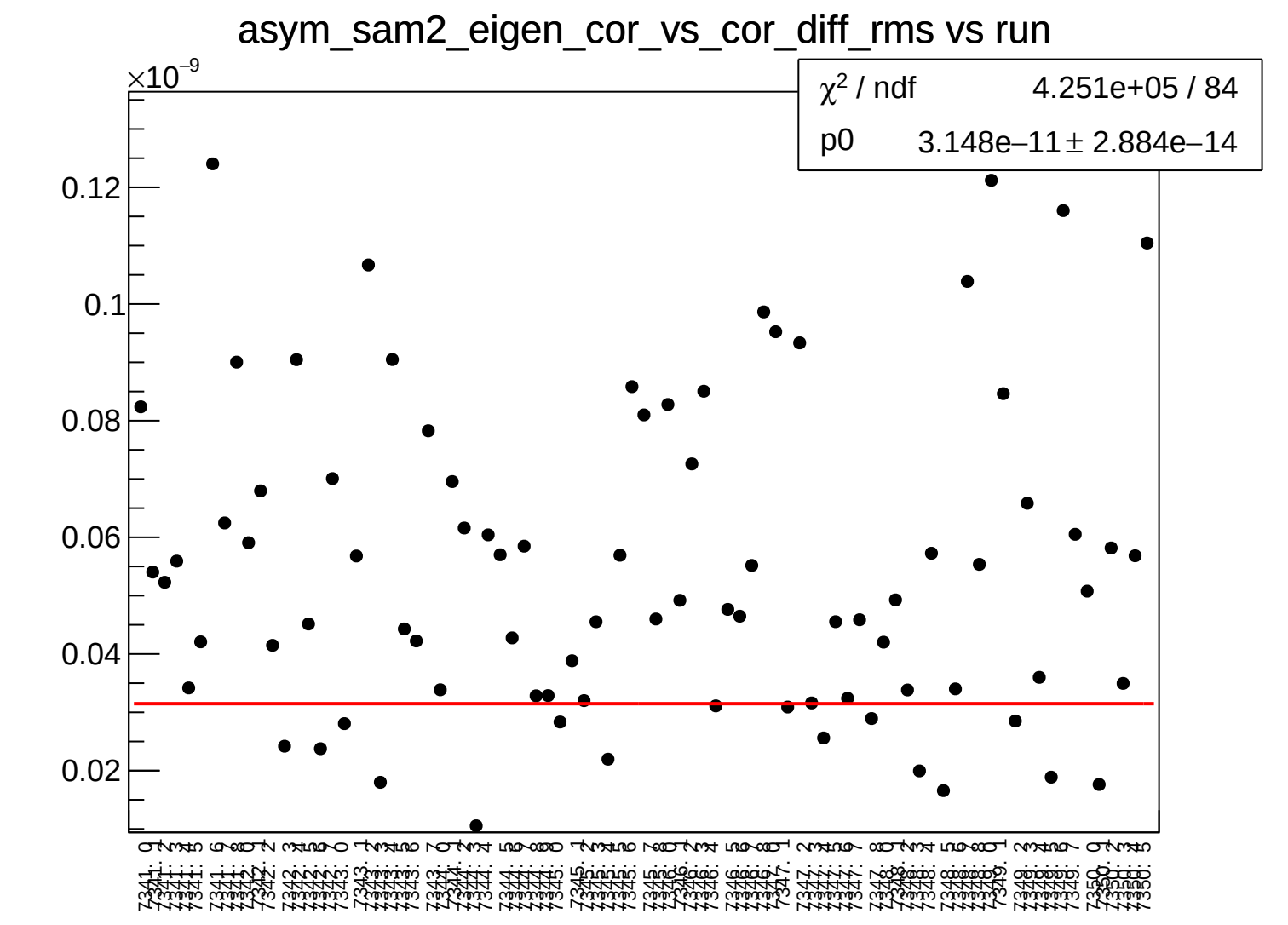

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.15 / 84
p0 0.1737 ± 0.1524
pull
Entries 85
Mean −77.92
Std Dev 0

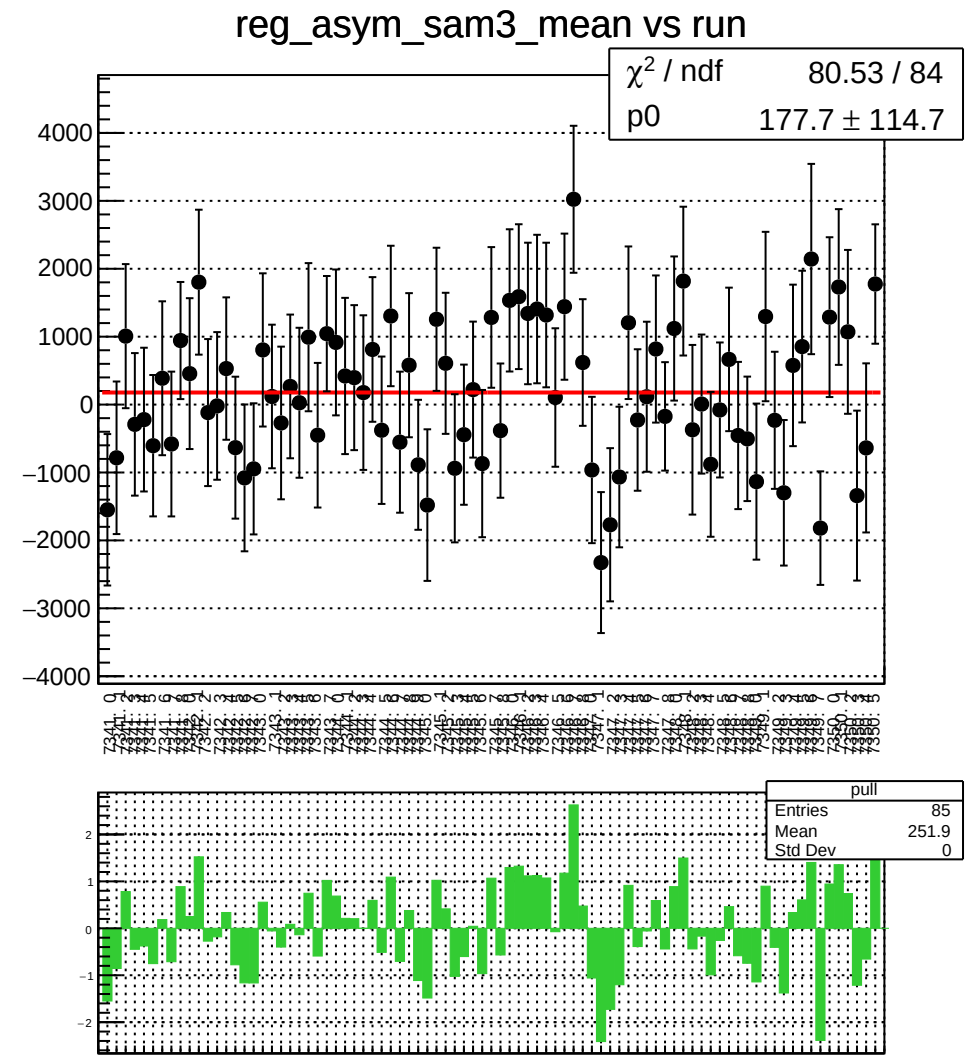

pull1D
Entries 85
Mean −0.02112
Std Dev 1.006

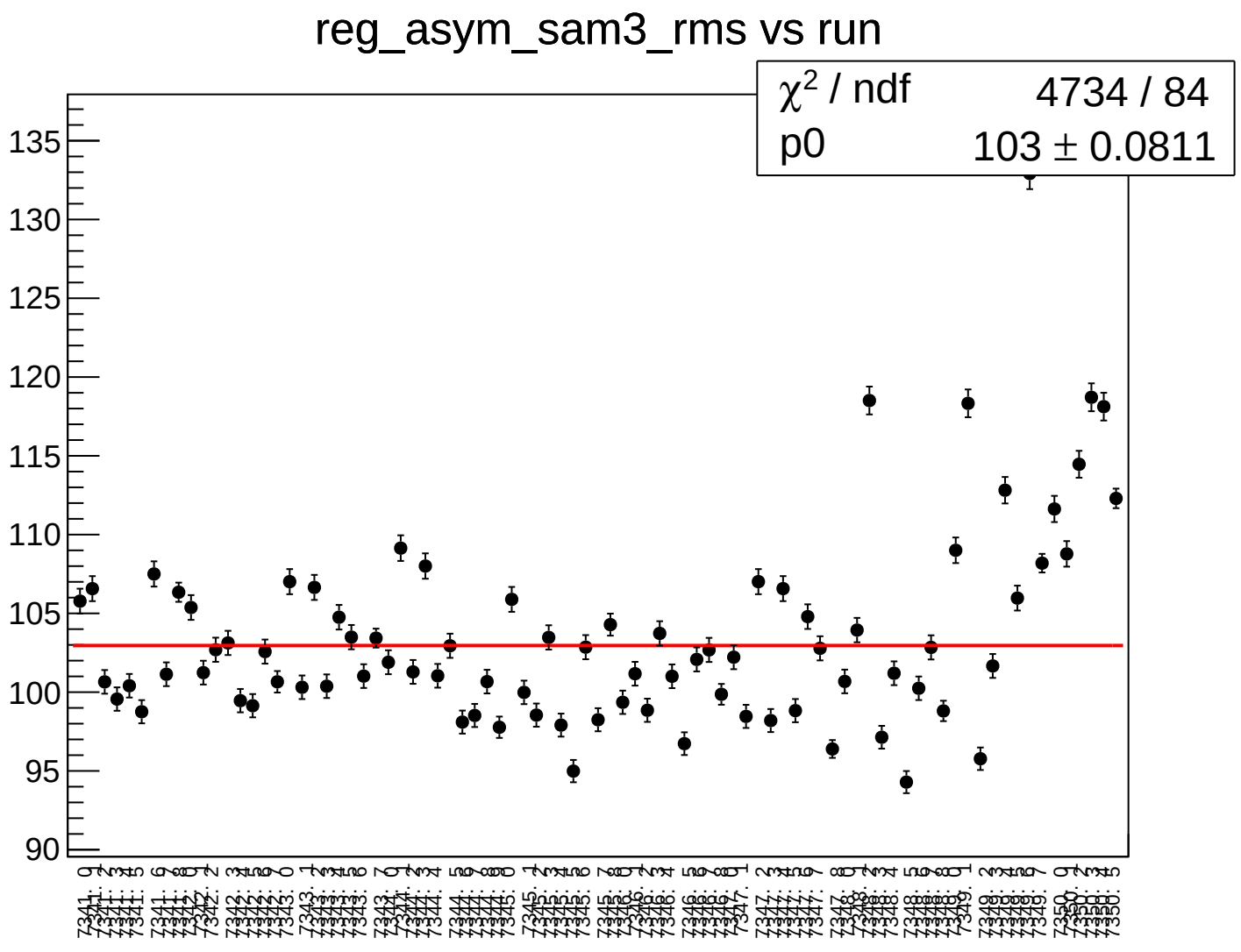

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.563e+04 / 84
p0 136.4 ± 0.1078
200
190
180
170
160
150
140
130
120

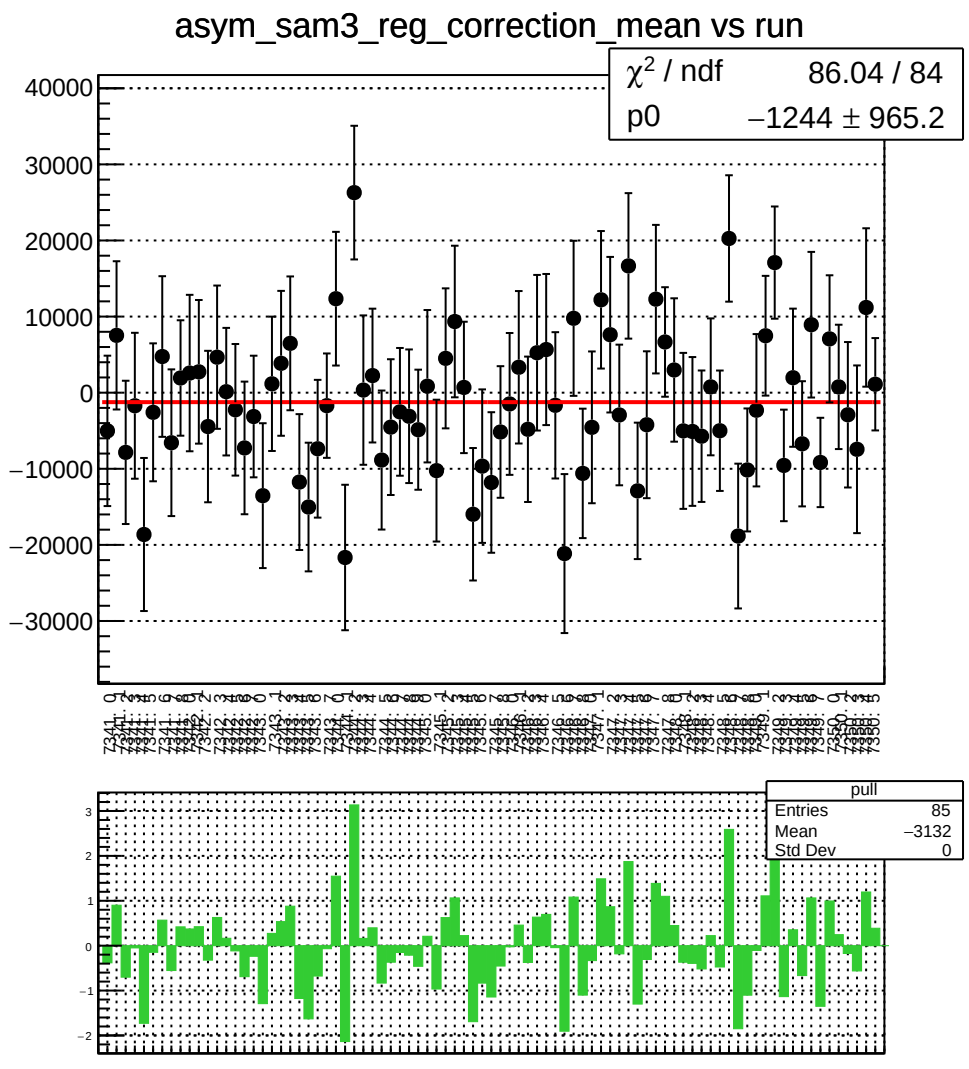

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.59 / 84
p0 1.231e−14 ± 4.079e−14
pull
Entries 85
Mean −26.55
Std Dev 0

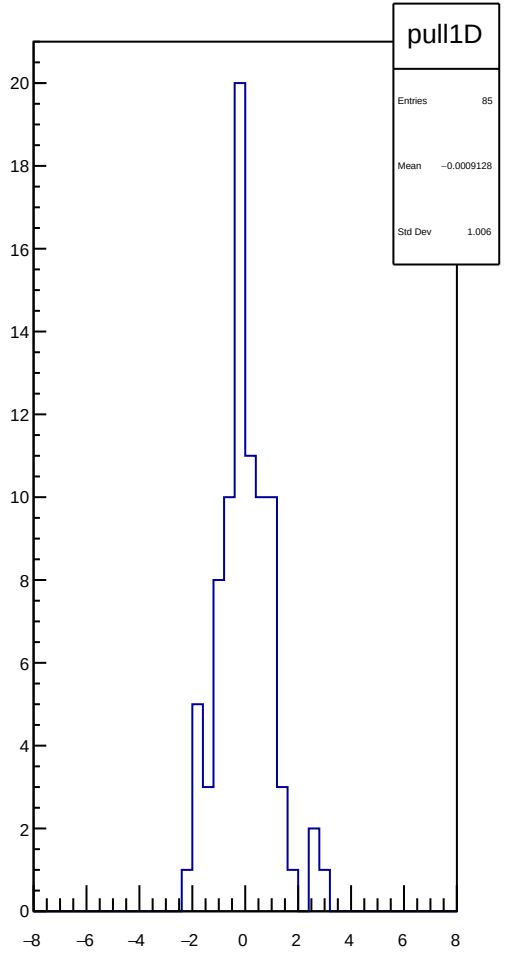

pull1D
Entries 85
Mean −0.03674
Std Dev 0.973

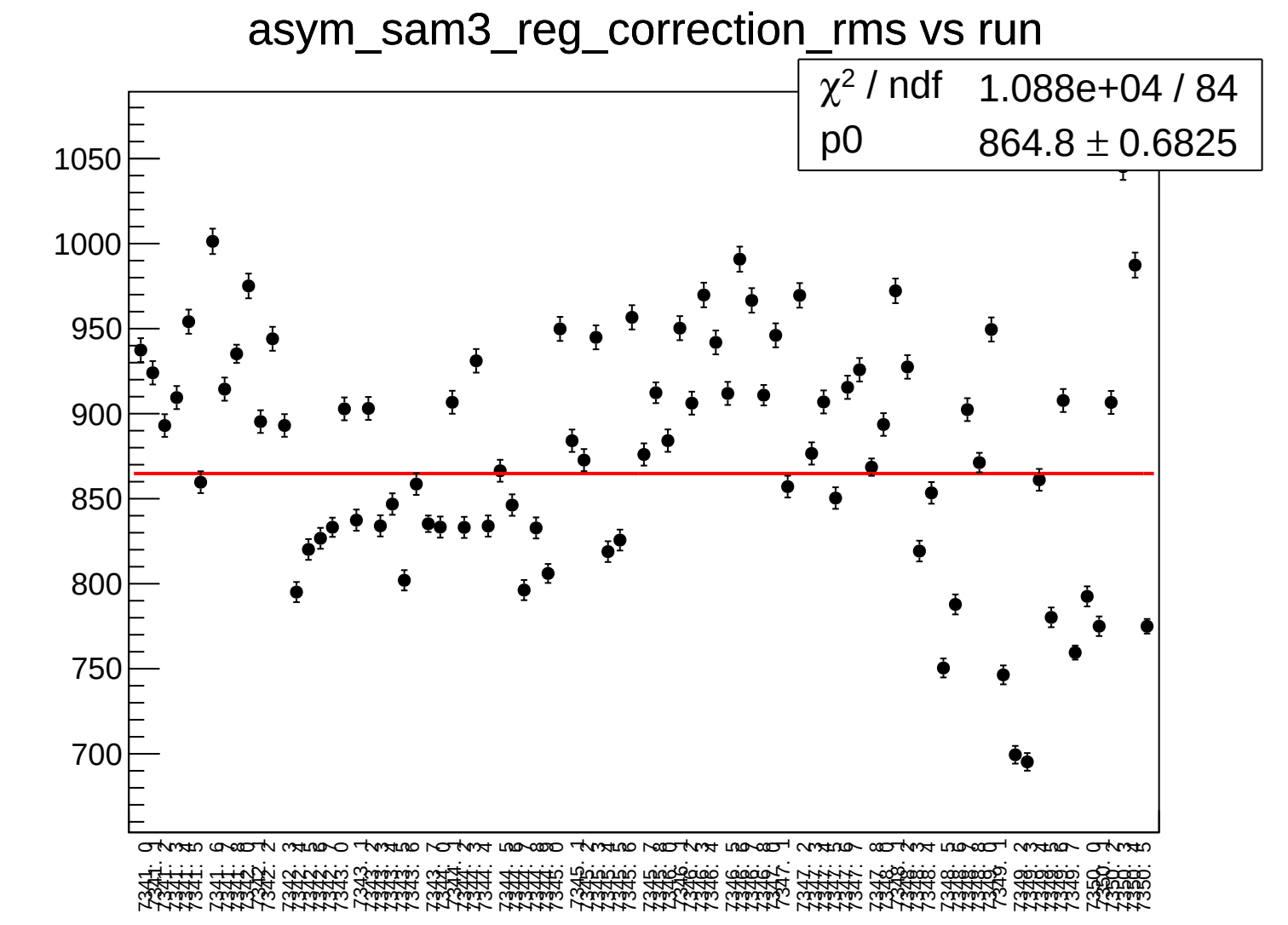

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.251e+05 / 84
p0 3.148e−11 ± 2.884e−14
0.12
0.1
0.08
0.06
0.04
0.02

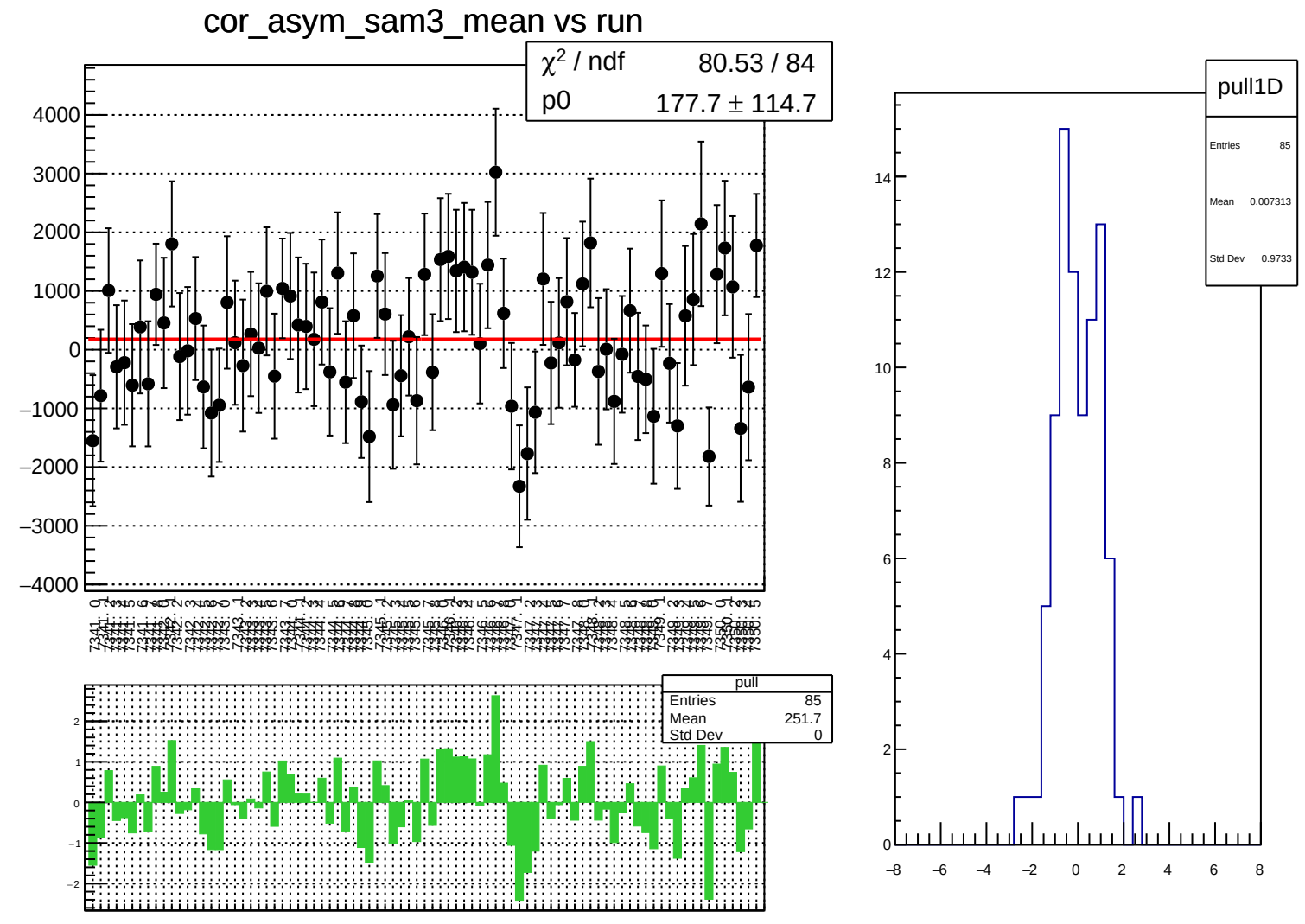

reg_asym_sam3_mean vs run
χ² / ndf 80.53 / 84
p0 177.7 ± 114.7
pull
Entries 85
Mean 251.9
Std Dev 0
pull1D
Entries 85
Mean 0.00731
Std Dev 0.9733

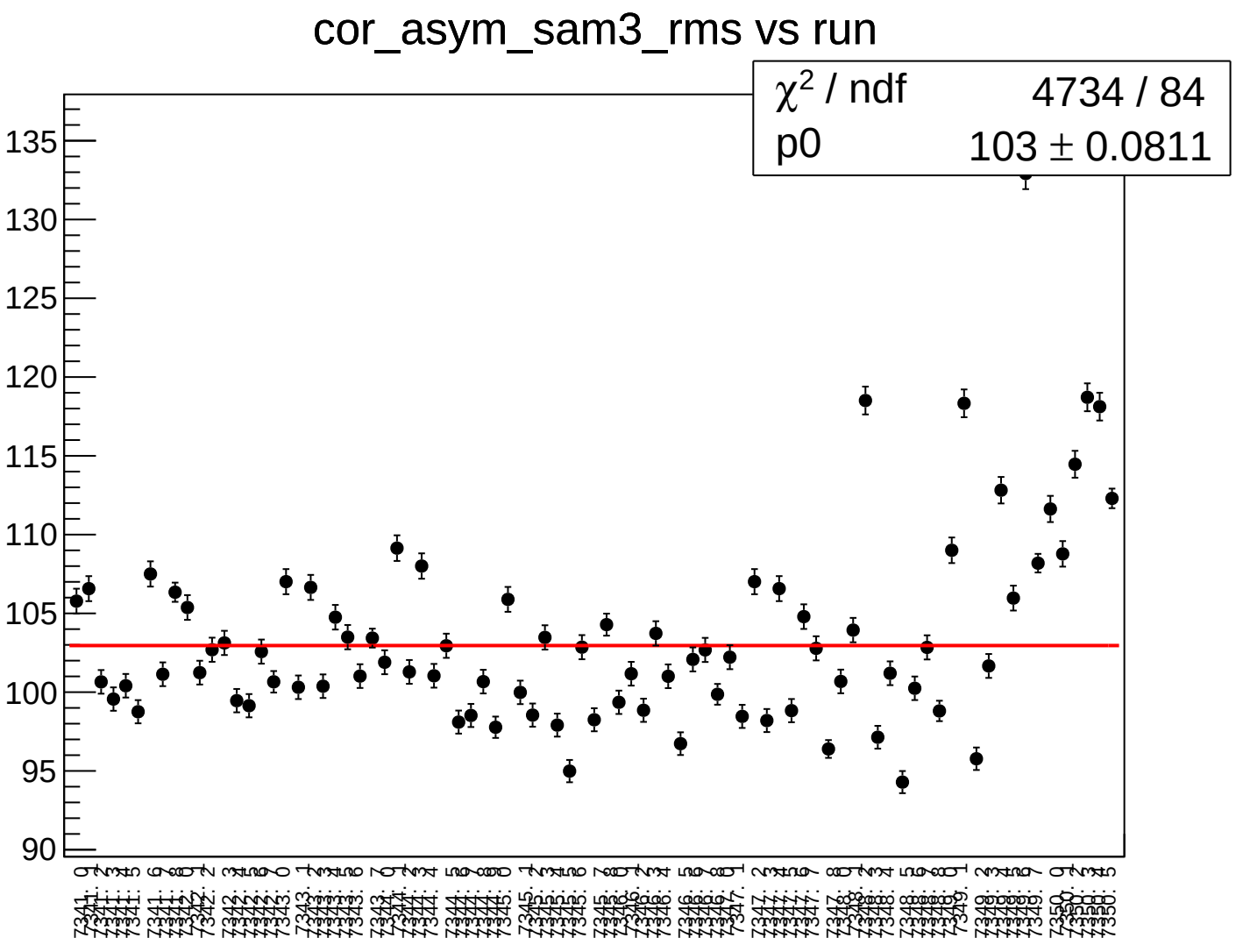

reg_asym_sam3_rms vs run
χ^2 / ndf 4734 / 84
p0 103 ± 0.0811
135
130
125
120
115
110
105
100
95
90

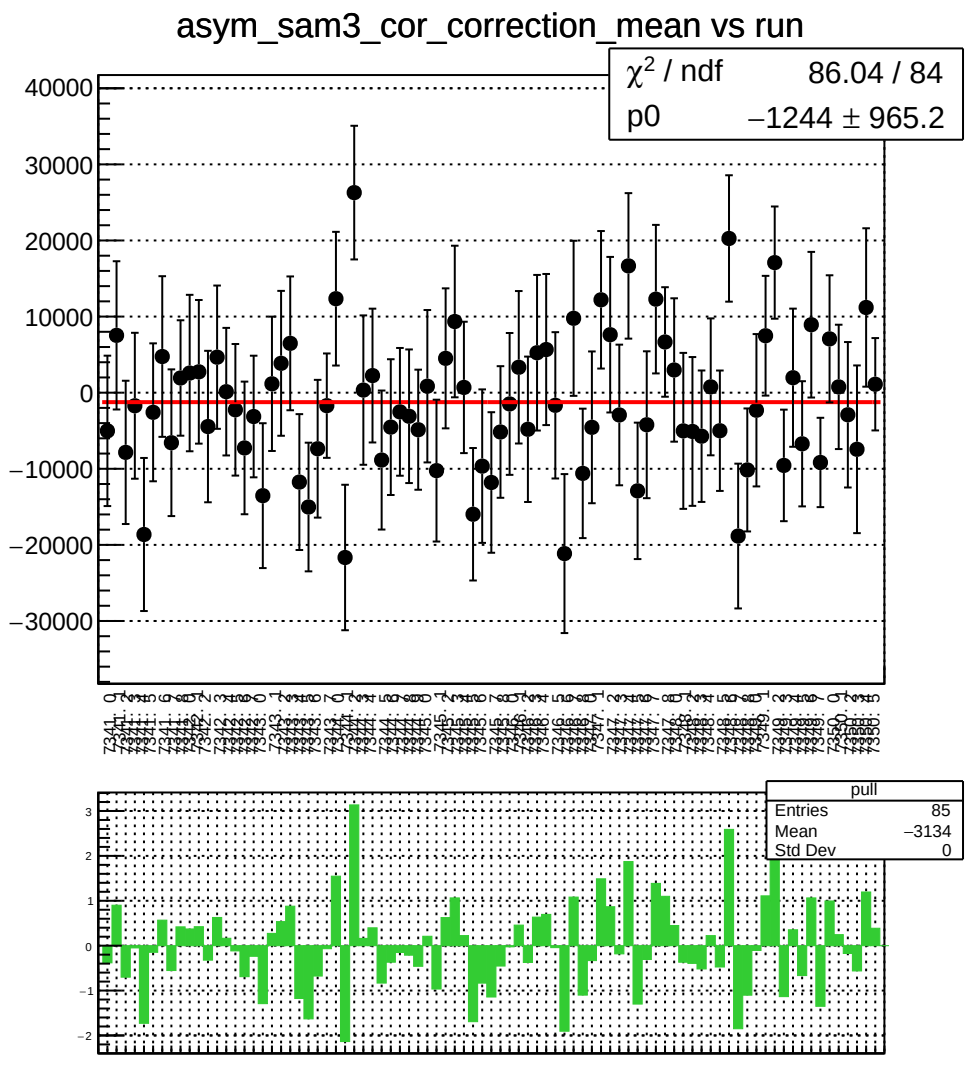

asym_sam3_reg_correction_mean vs run
χ² / ndf 86.04 / 84
p0 −1244 ± 965.2
pull
Entries 85
Mean −3132
Std Dev 0

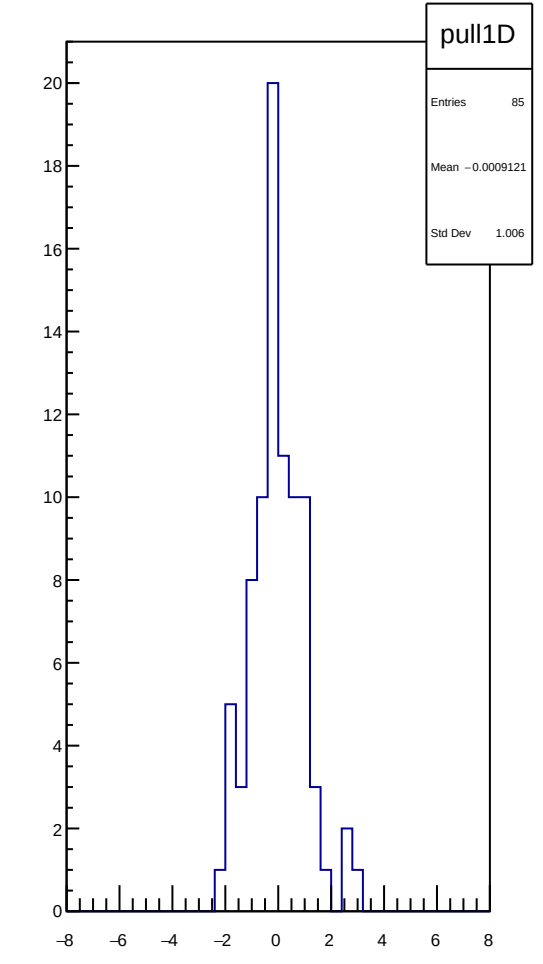

pull1D
Entries 85
Mean −0.0009128
Std Dev 1.006

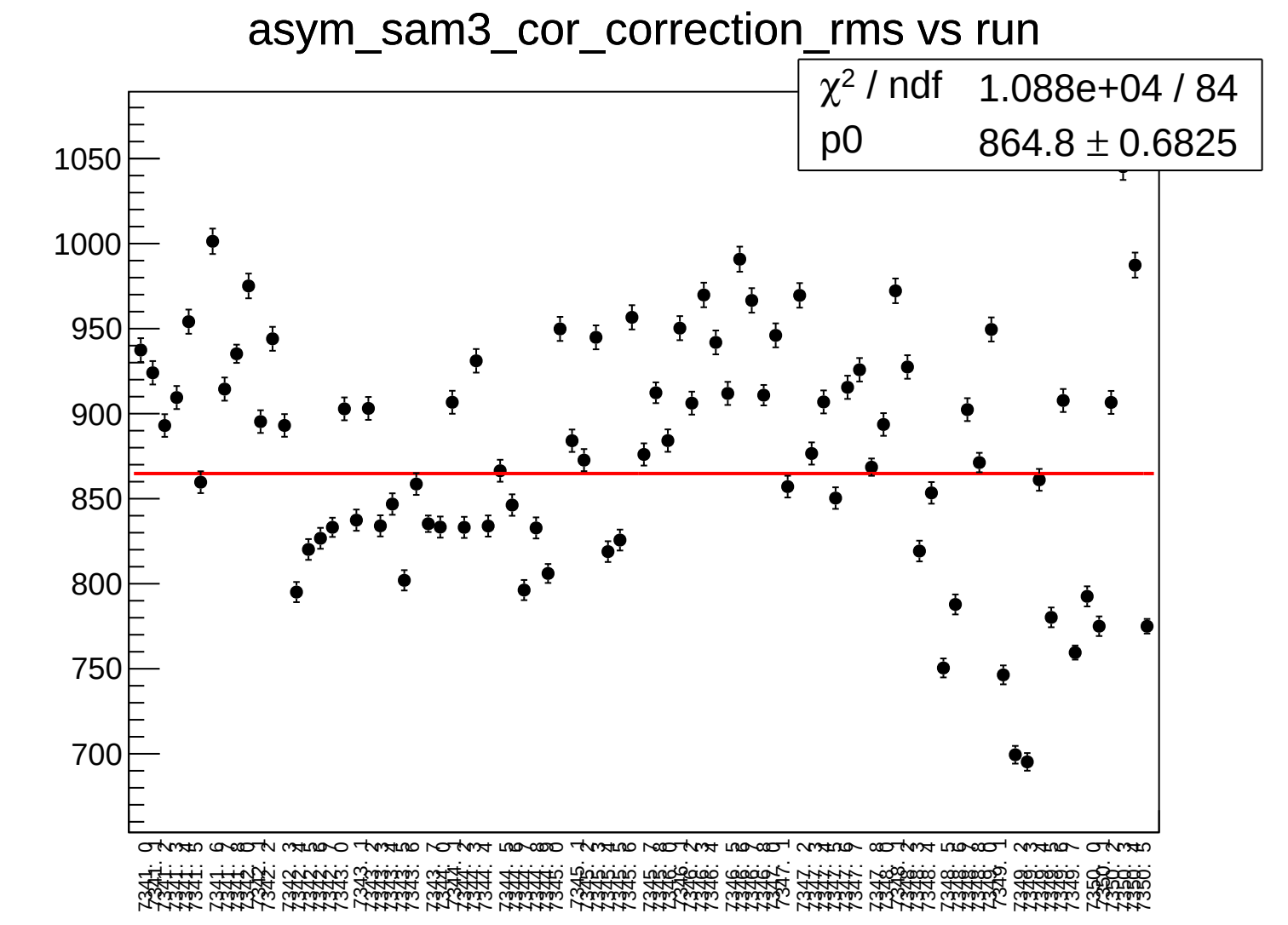

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.088e+04 / 84
p0 864.8 ± 0.6825
1050
1000
950
900
850
800
750
700

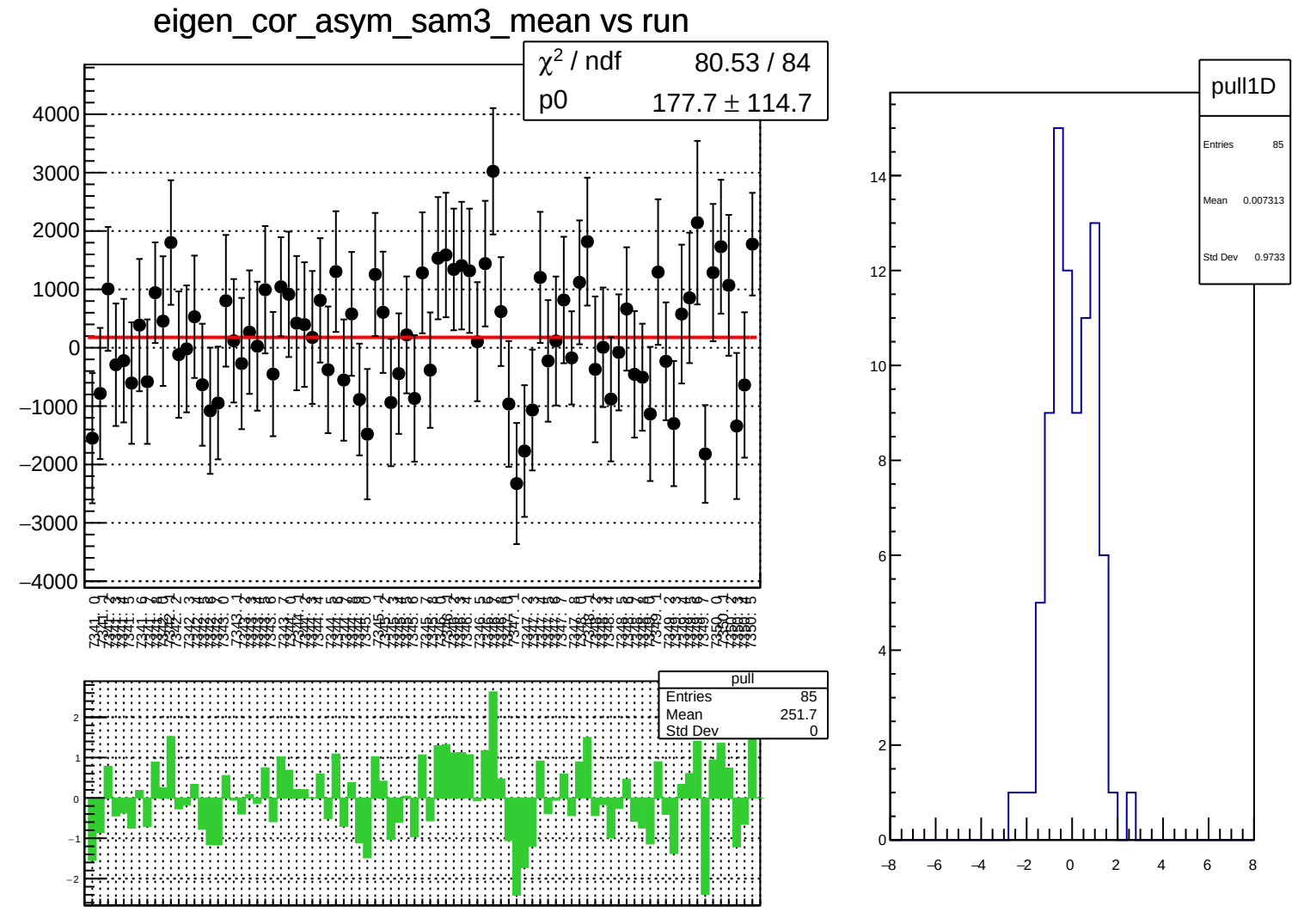

cor_asym_sam3_mean vs run
χ² / ndf 80.53 / 84
p0 177.7 ± 114.7
pull
Entries 85
Mean 251.7
Std Dev 0
pull1D
Entries 85
Mean 0.007313
Std Dev 0.9733

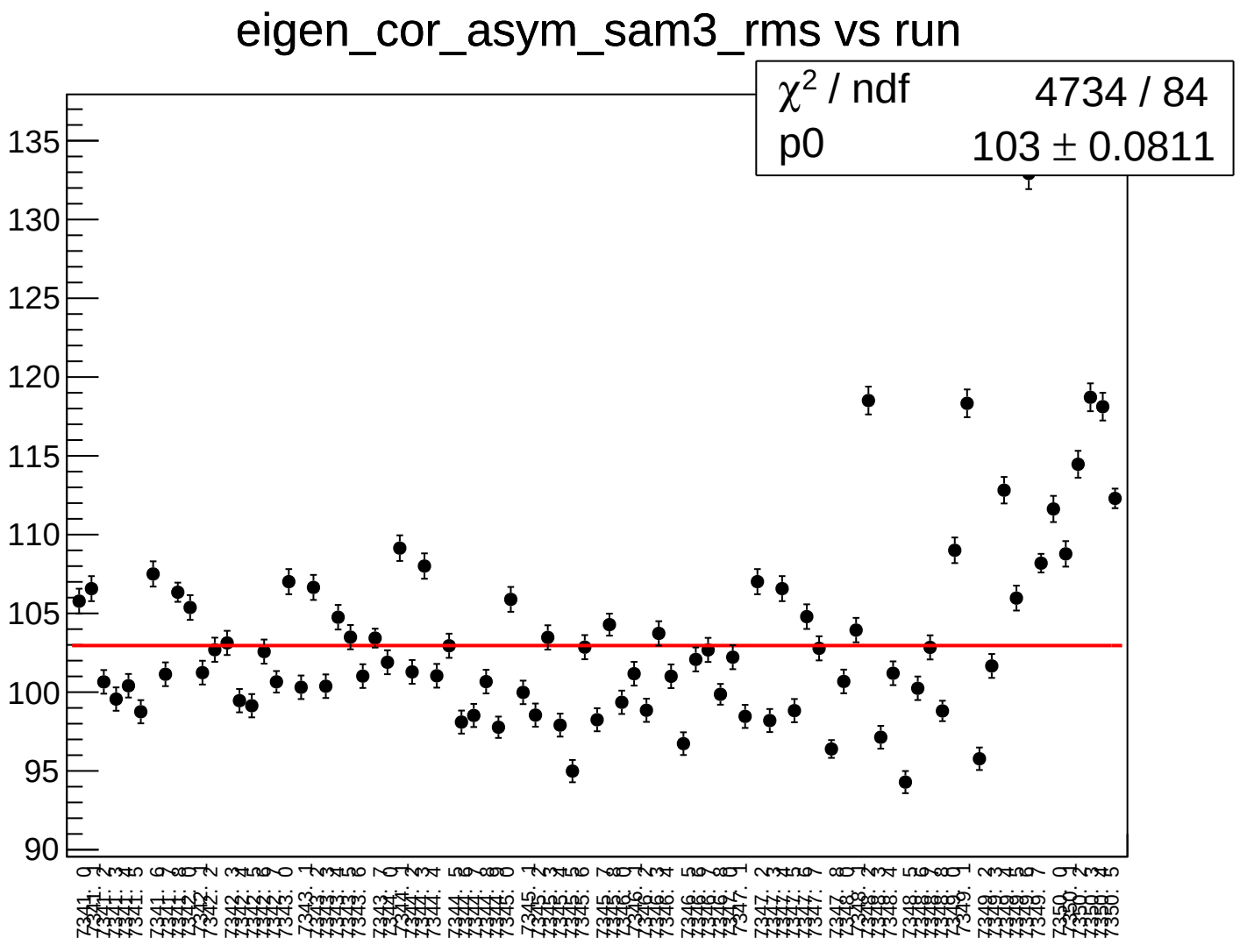

cor_asym_sam3_rms vs run
χ^2 / ndf 4734 / 84
p0 103 ± 0.0811
135
130
125
120
115
110
105
100
95
90

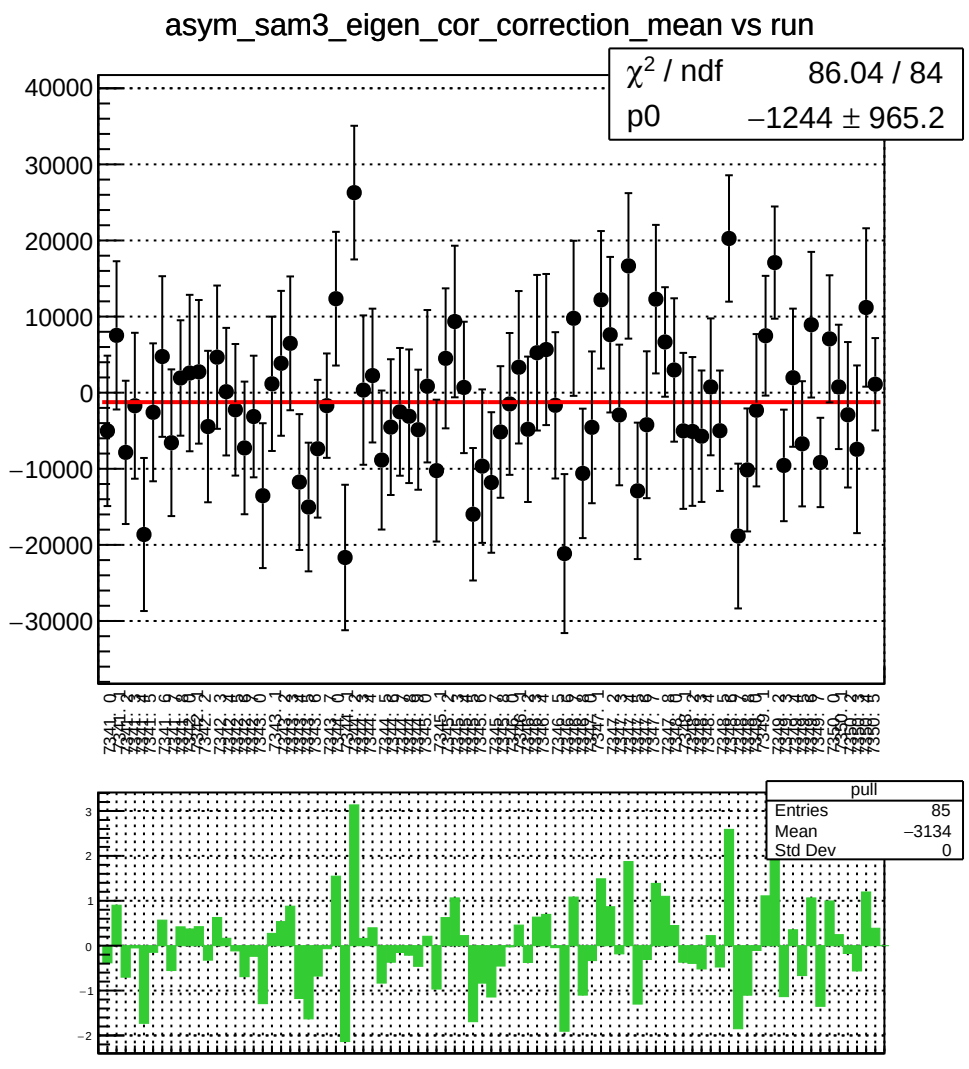

asym_sam3_cor_correction_mean vs run
χ² / ndf 86.04 / 84
p0 −1244 ± 965.2
pull
Entries 85
Mean −3134
Std Dev 0

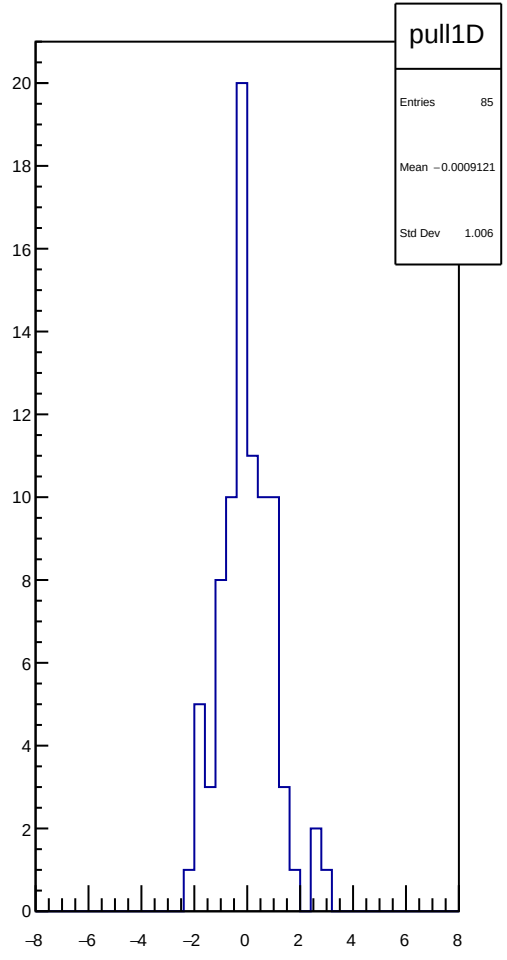

pull1D
Entries 85
Mean −0.0009121
Std Dev 1.006

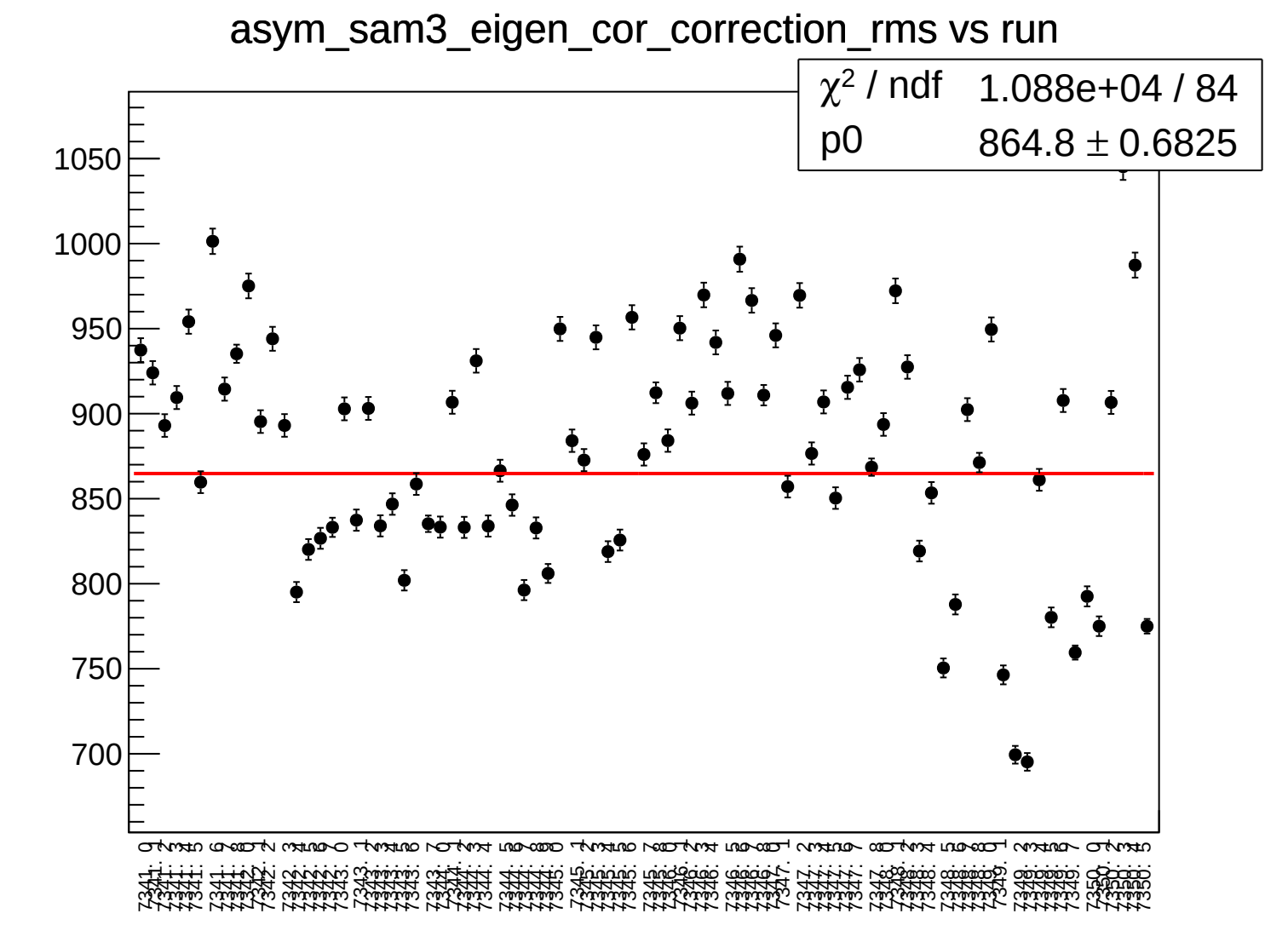

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.088e+04 / 84
p0 864.8 ± 0.6825
1050
1000
950
900
850
800
750
700

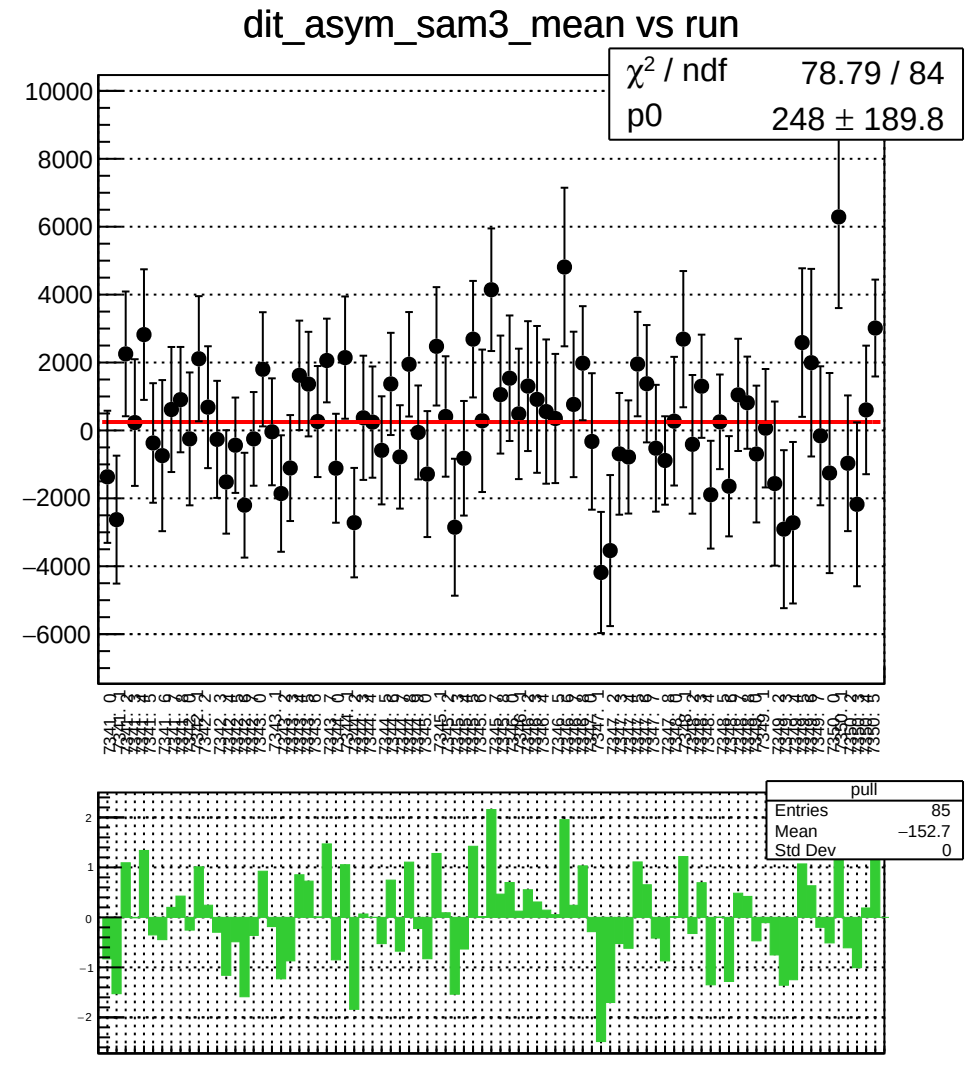

eigen_cor_asym_sam3_mean vs run
χ² / ndf 80.53 / 84
p0 177.7 ± 114.7
pull
Entries 85
Mean 251.7
Std Dev 0
pull1D
Entries 85
Mean 0.007313
Std Dev 0.9733

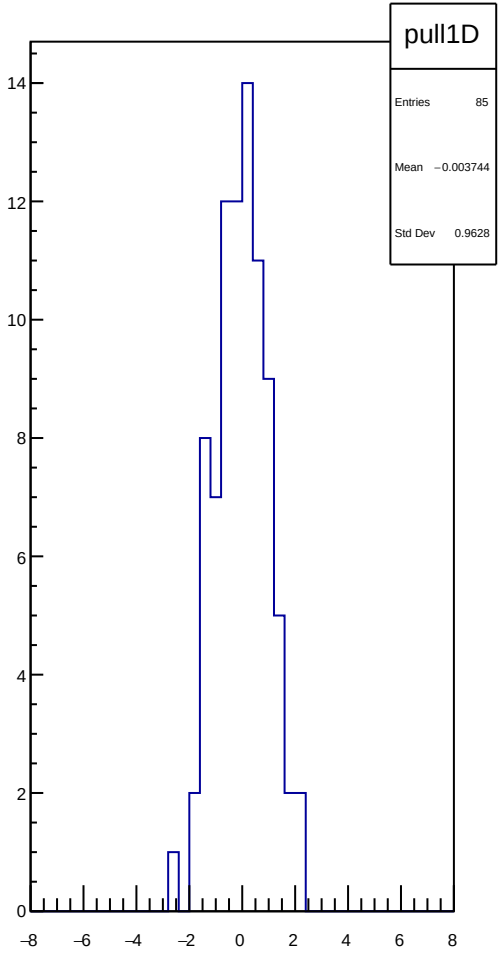

eigen_cor_asym_sam3_rms vs run
χ² / ndf 4734 / 84
p0 103 ± 0.0811
135
130
125
120
115
110
105
100
95
90

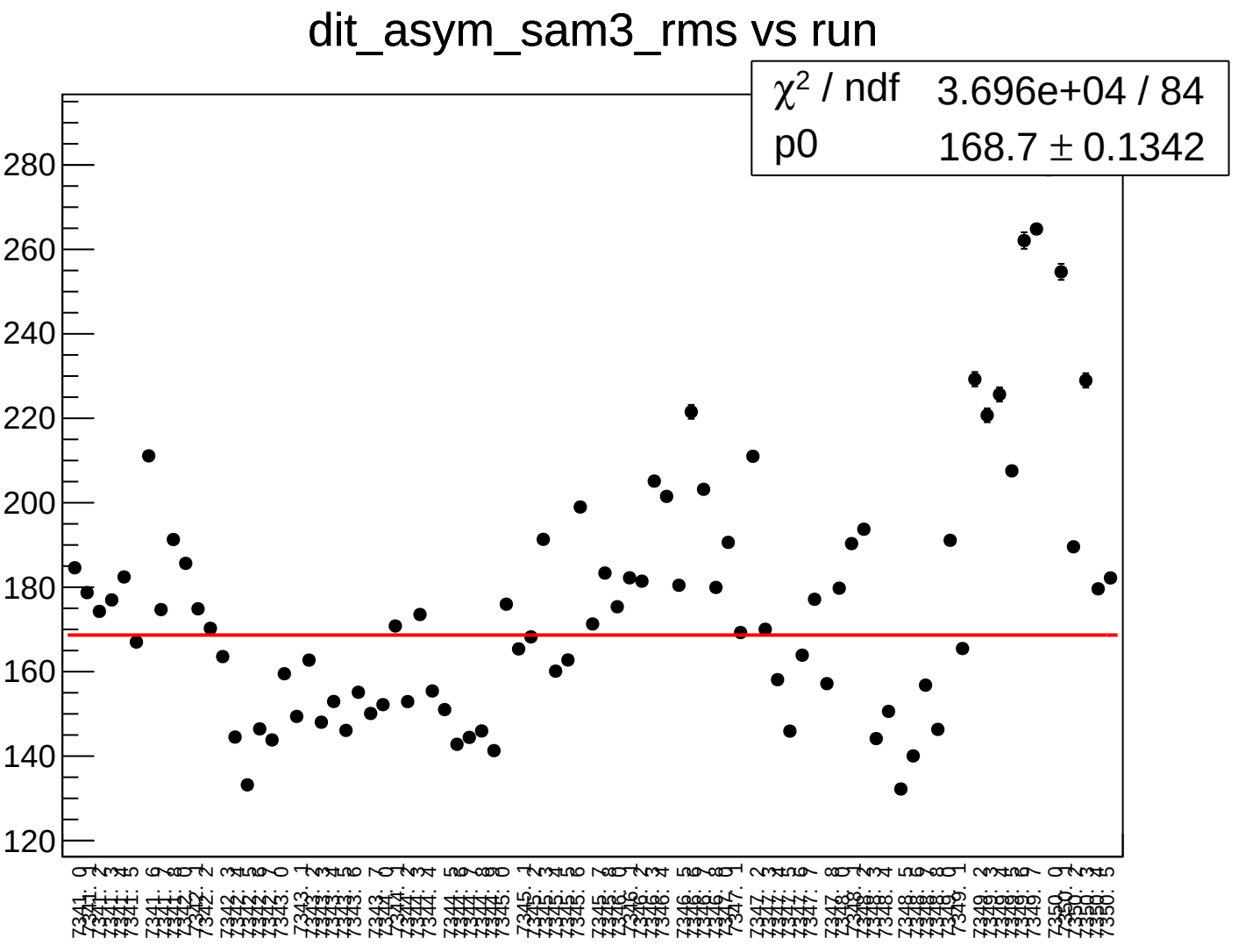

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 86.04 / 84
p0 −1244 ± 965.2
pull
Entries 85
Mean −3134
Std Dev 0

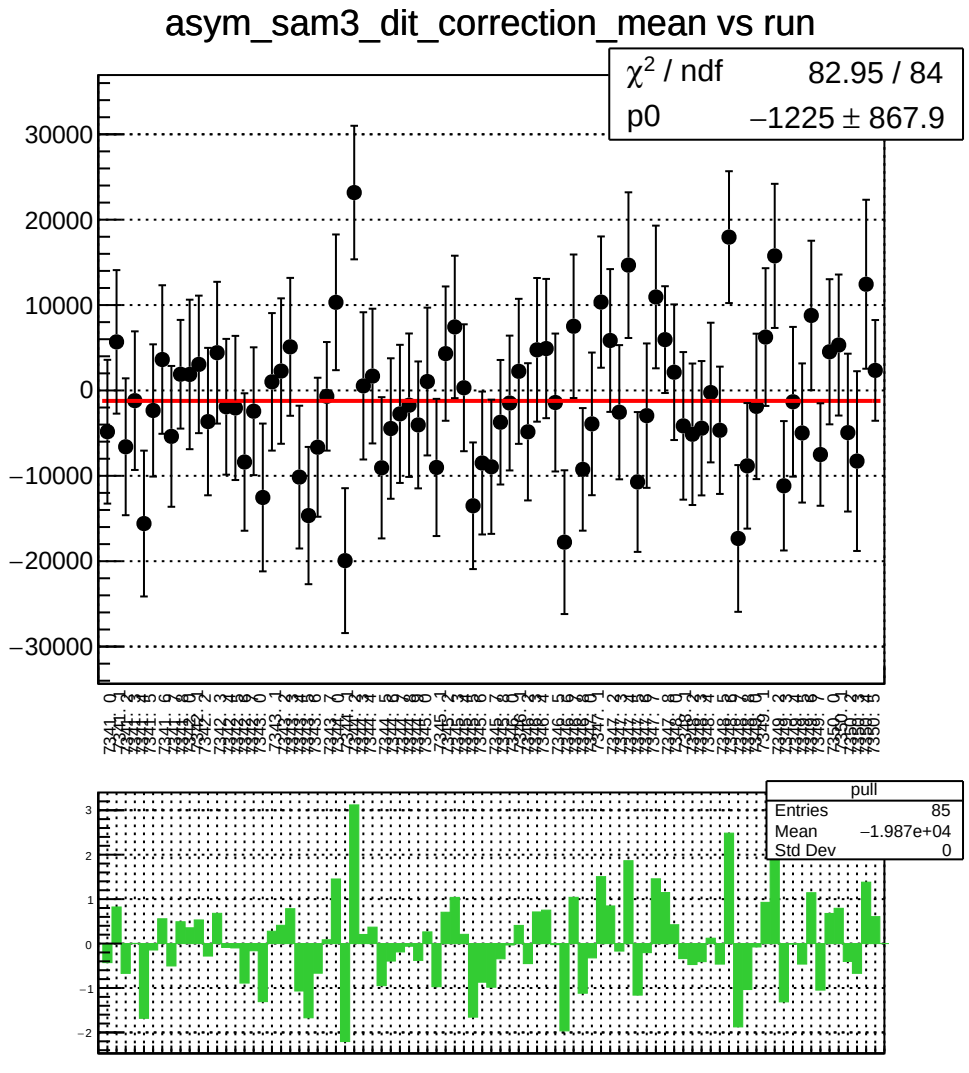

pull1D
Entries 85
Mean −0.0009121
Std Dev 1.006

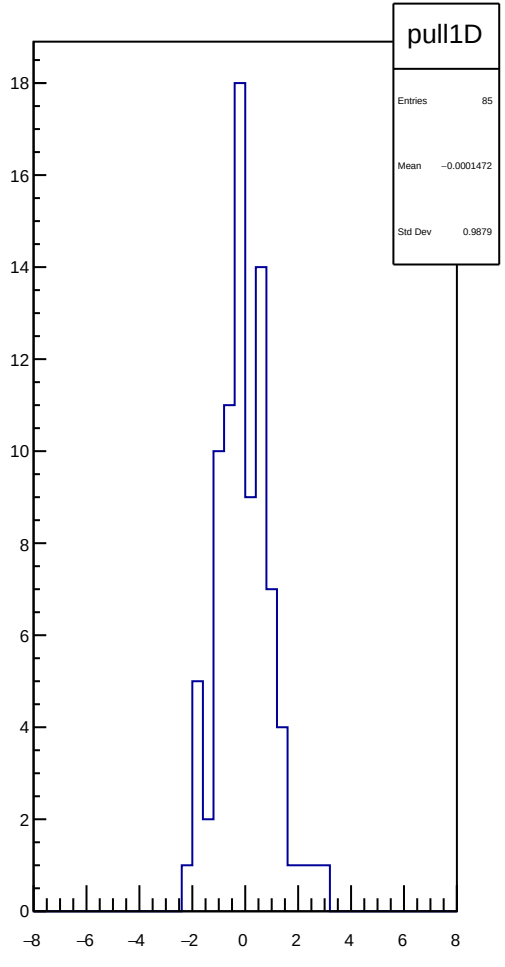

asym_sam3_eigen_cor_correction_rms vs run
χ^2 / ndf 1.088e+04 / 84
p0 864.8 ± 0.6825
1050
1000
950
900
850
800
750
700

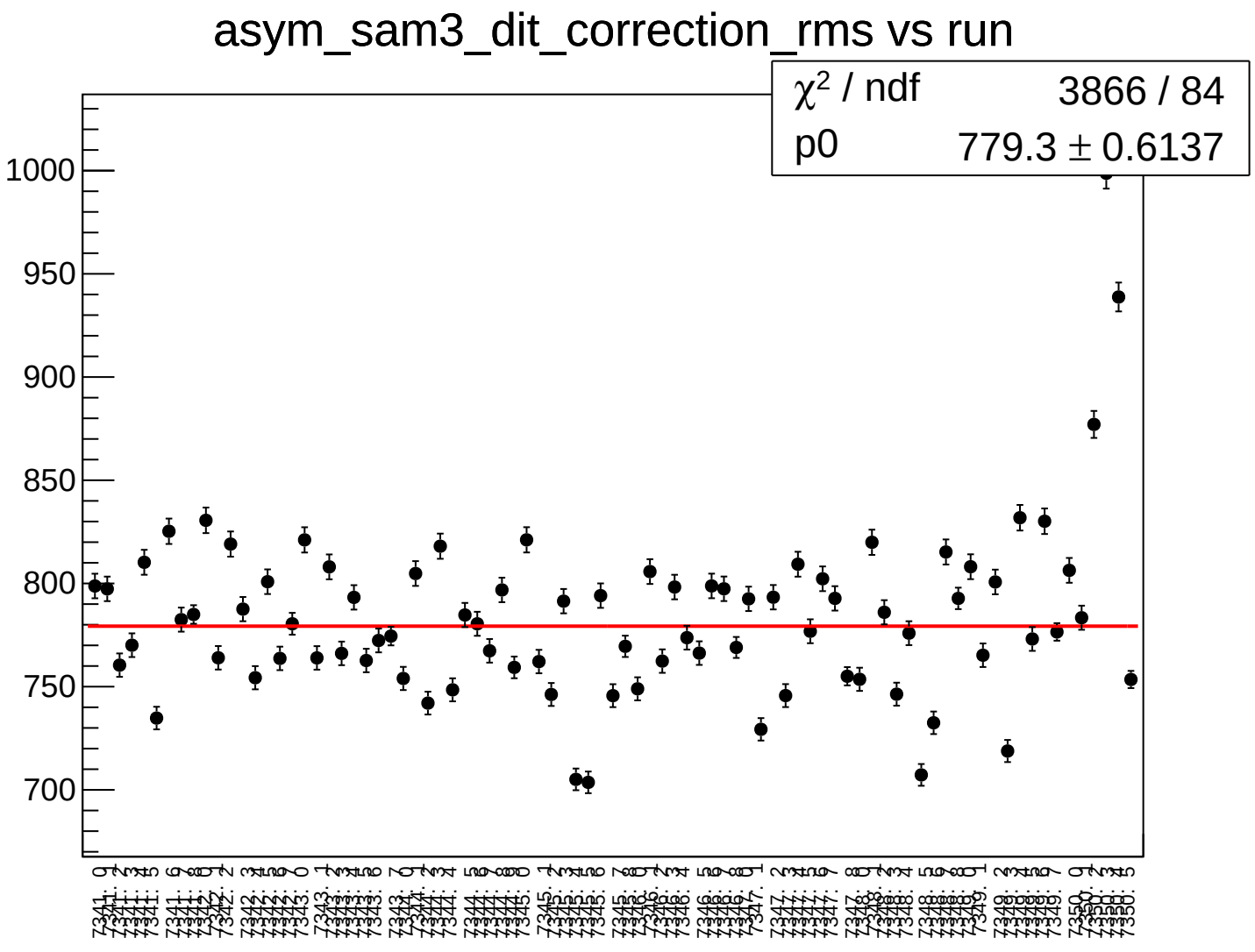

dit_asym_sam3_mean vs run
χ² / ndf 78.79 / 84
p0 248 ± 189.8
pull
Entries 85
Mean −152.7
Std Dev 0

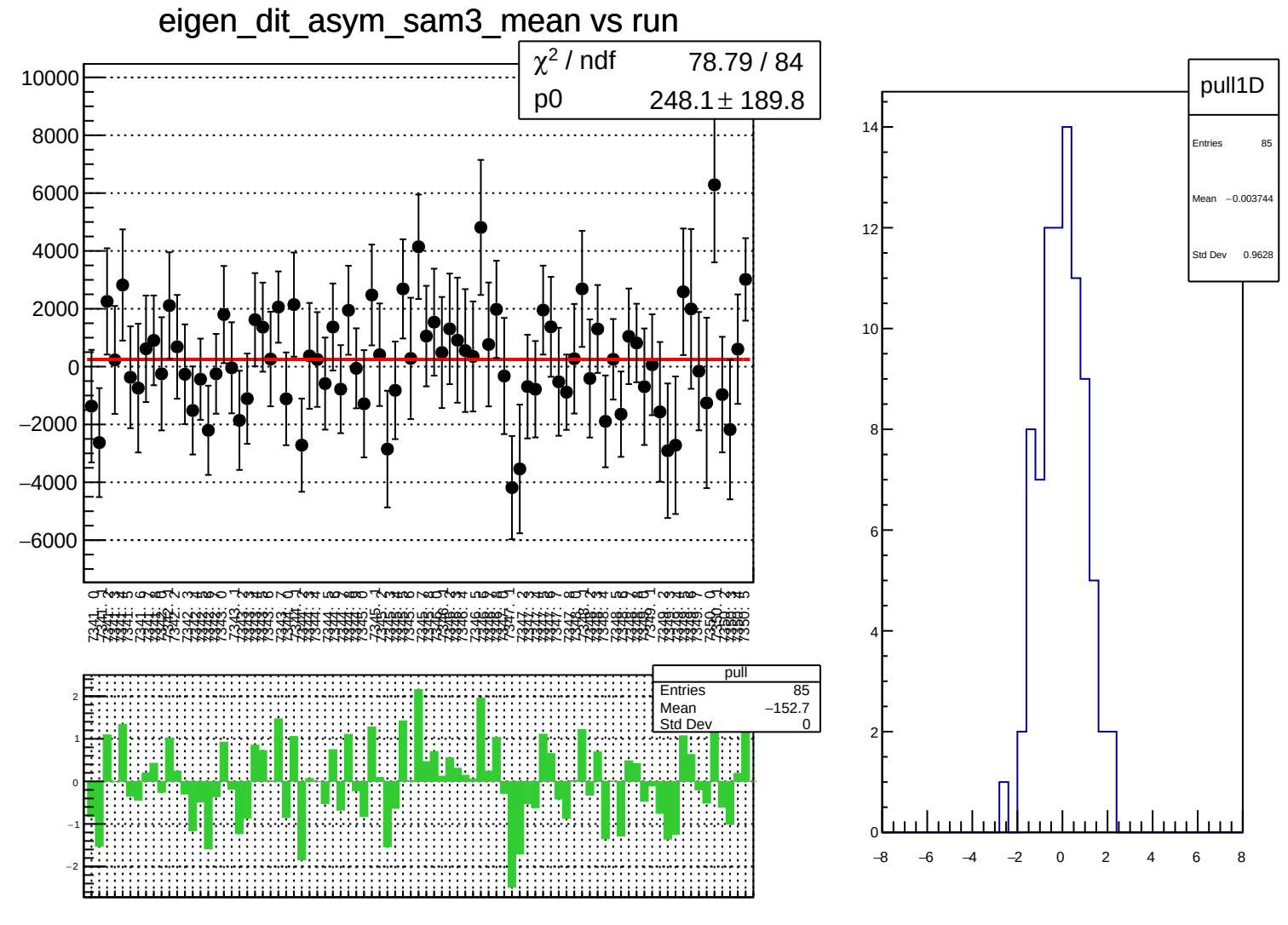

pull1D
Entries 85
Mean −0.003744
Std Dev 0.9628

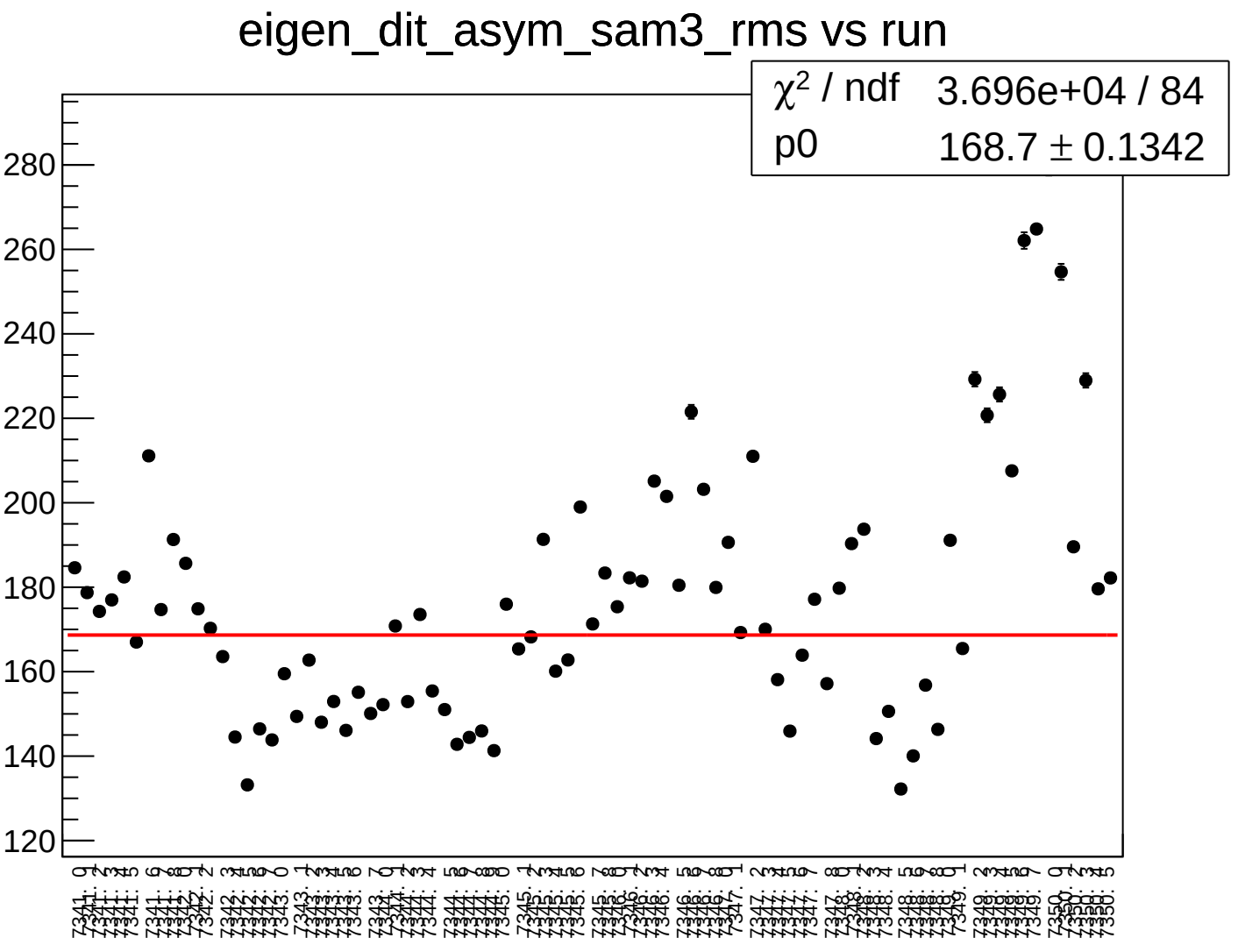

dit_asym_sam3_rms vs run
χ^2 / ndf 3.696e+04 / 84
p0 168.7 ± 0.1342
280
260
240
220
200
180
160
140
120

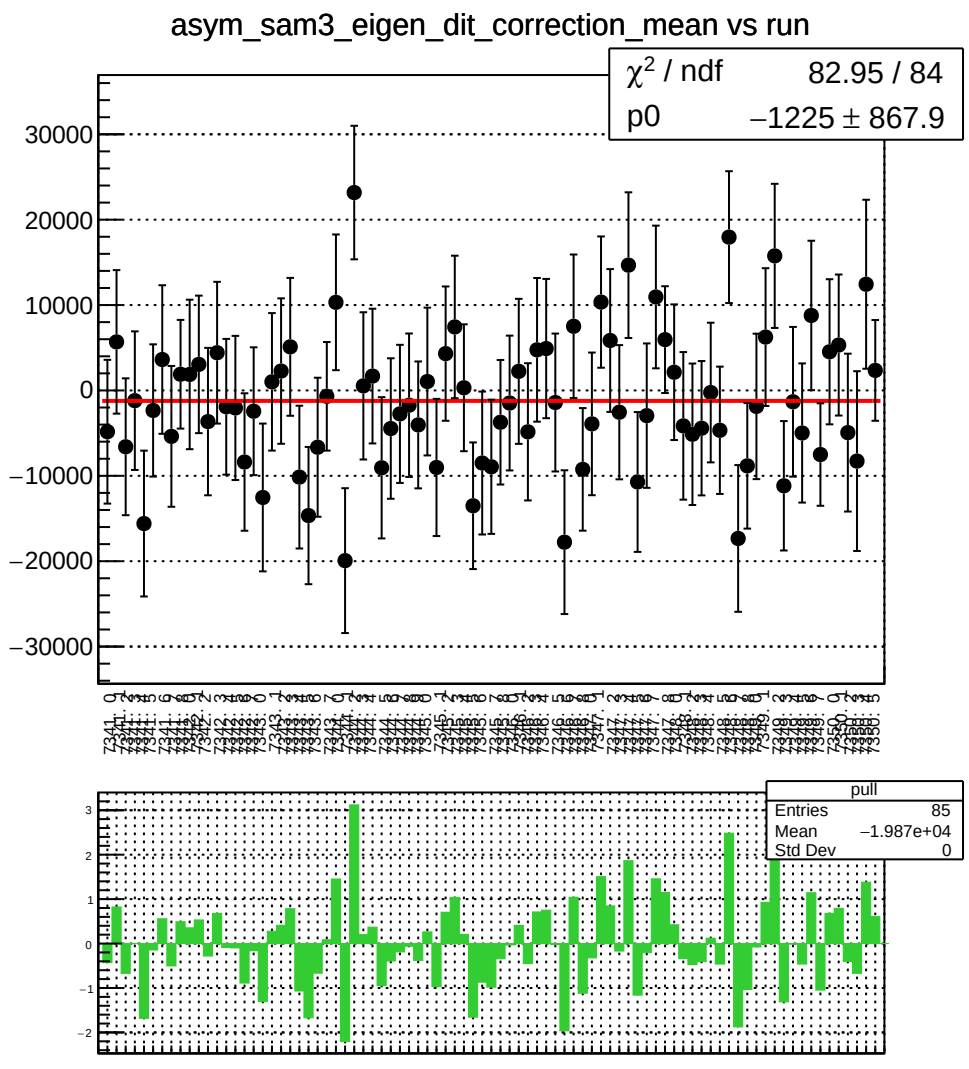

asym_sam3_dit_correction_mean vs run
χ² / ndf 82.95 / 84
p0 −1225 ± 867.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −1.987e+04
Std Dev 0
3
2
1
0
−1
−2

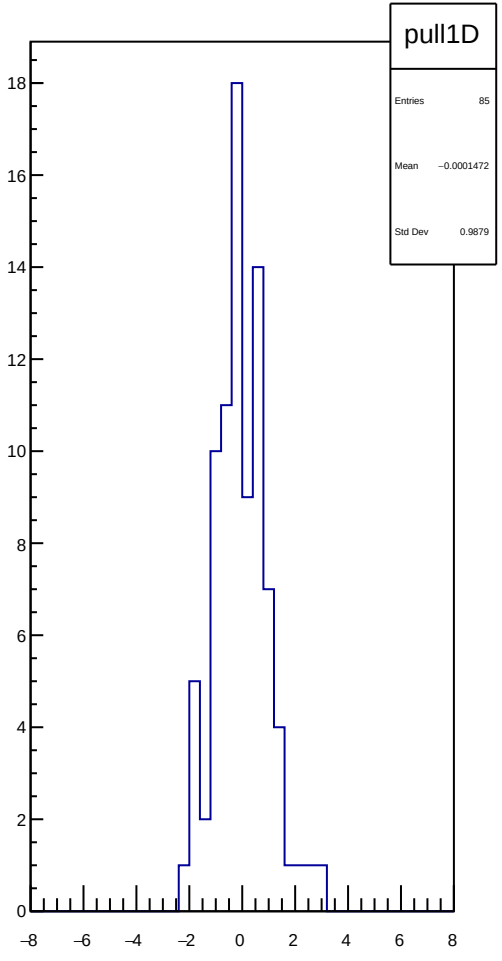

pull1D
Entries 85
Mean −0.0001472
Std Dev 0.9879
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

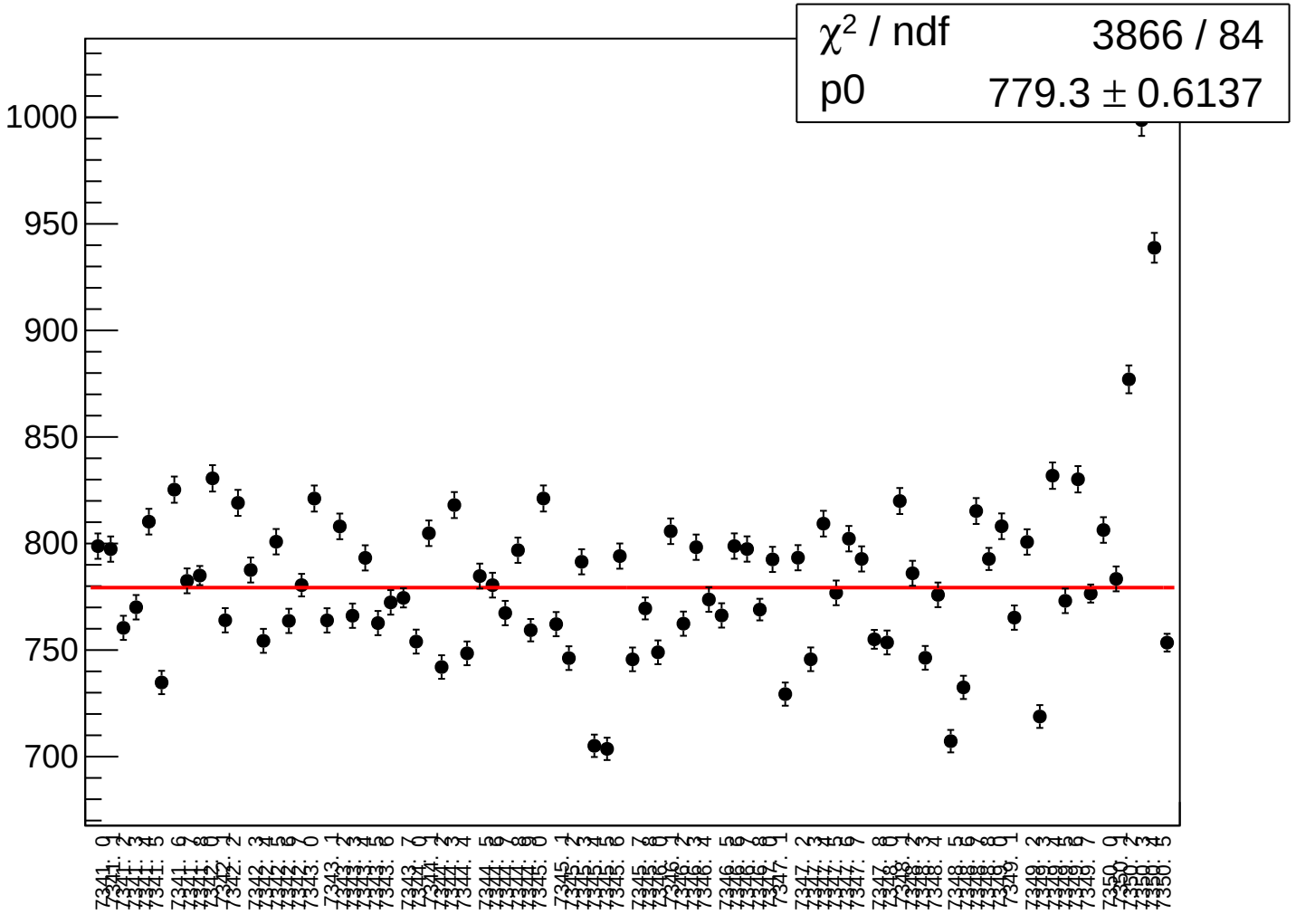

asym_sam3_dit_correction_rms vs run
χ² / ndf 3866 / 84
p0 779.3 ± 0.6137
1000
950
900
850
800
750
700

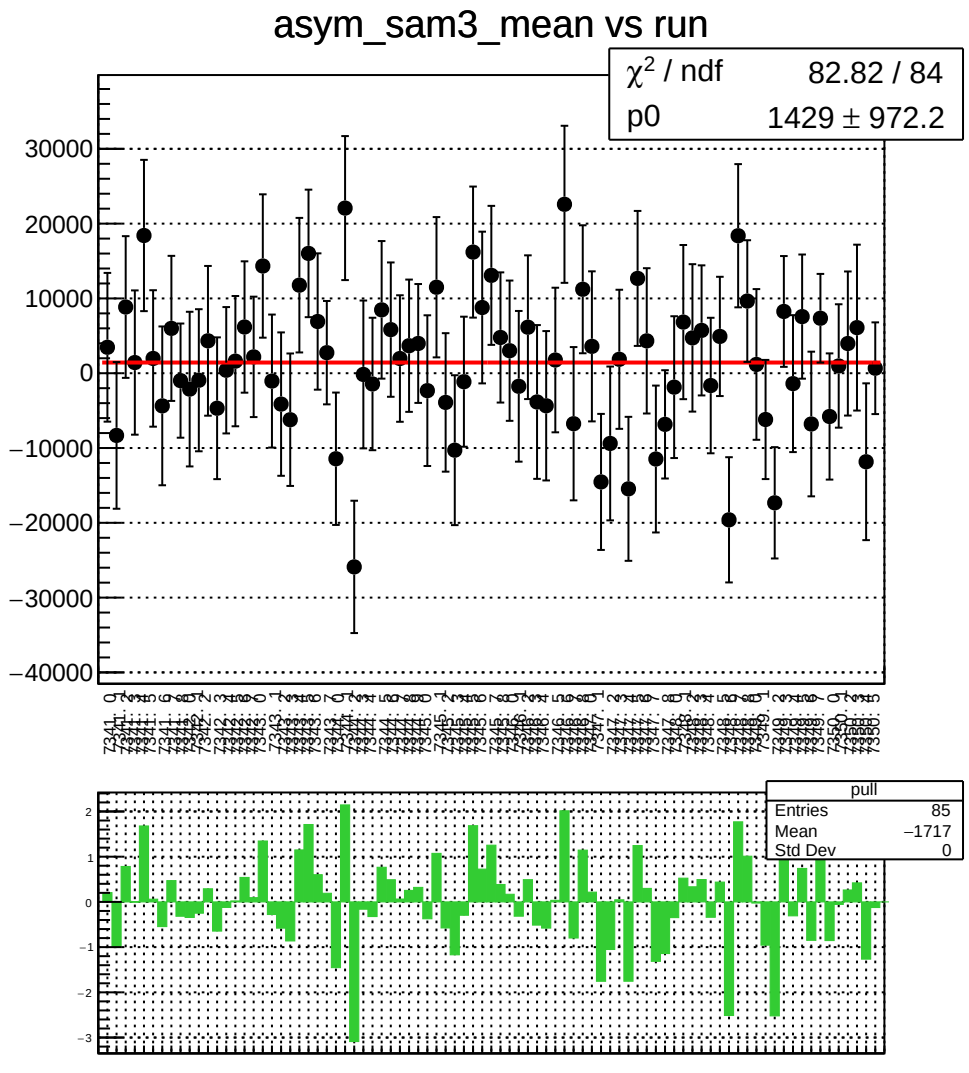

eigen_dit_asym_sam3_mean vs run
χ^2 / ndf 78.79 / 84
p0 248.1 ± 189.8
pull
Entries 85
Mean −152.7
Std Dev 0
pull1D
Entries 85
Mean −0.003744
Std Dev 0.9628

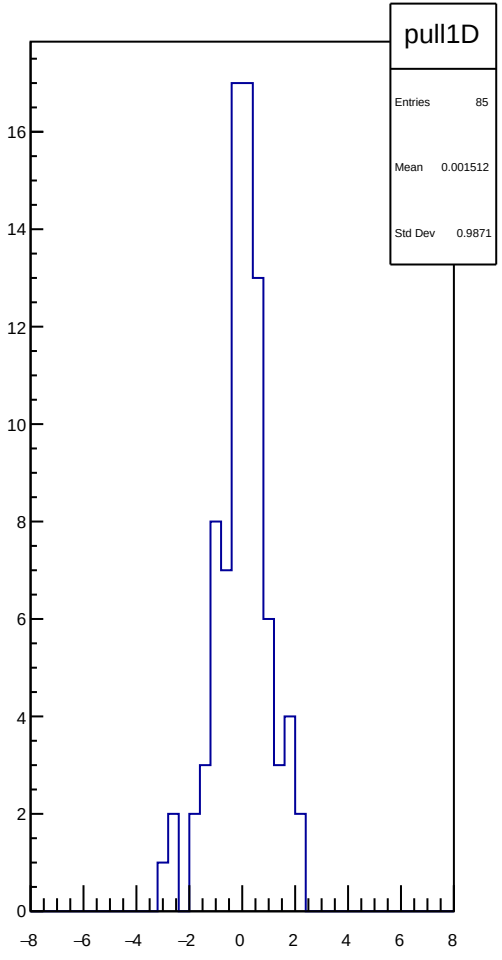

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 3.696e+04 / 84
p0 168.7 ± 0.1342
280
260
240
220
200
180
160
140
120

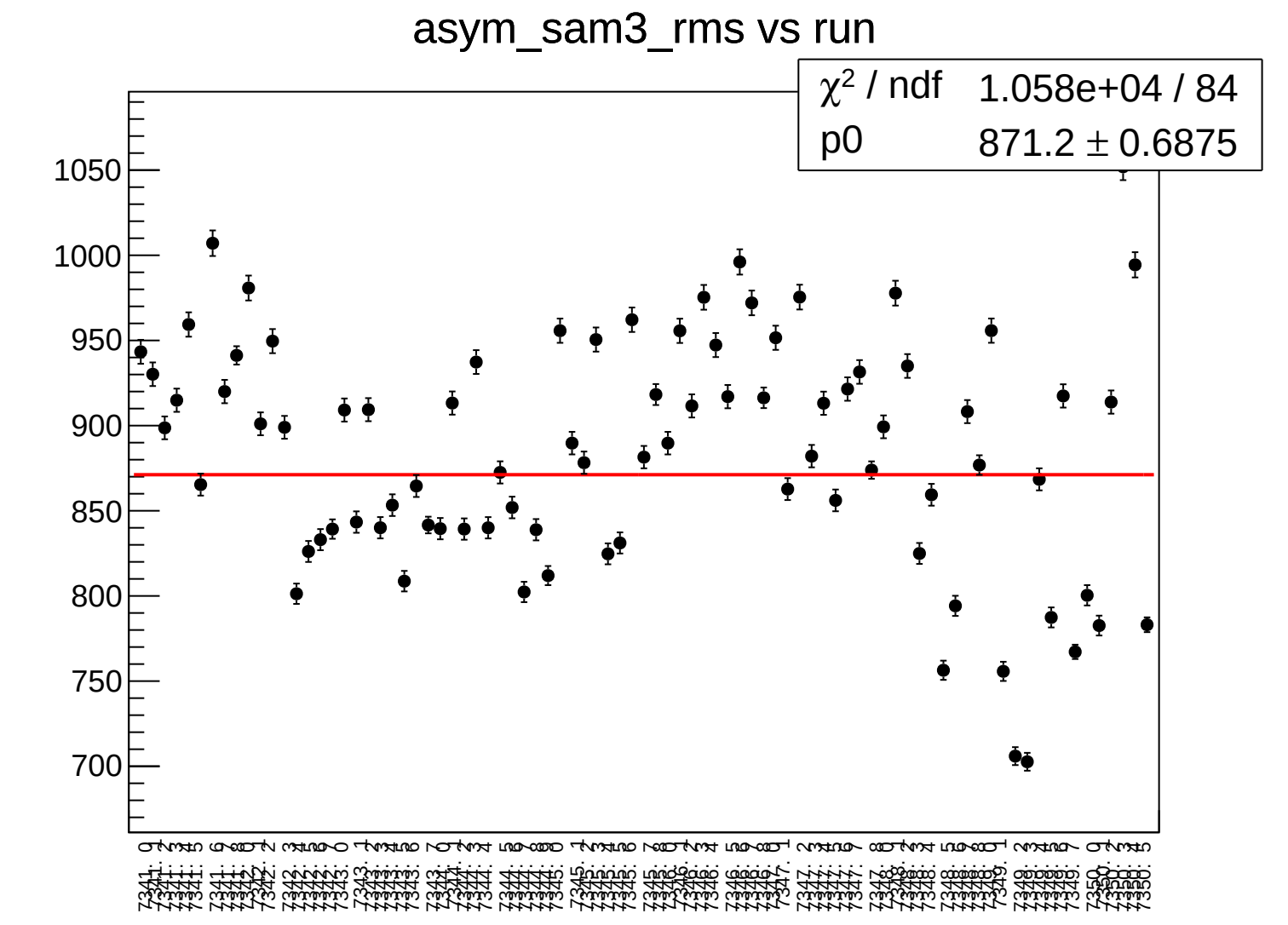

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 82.95 / 84
p0 −1225 ± 867.9
pull
Entries 85
Mean −1.987e+04
Std Dev 0

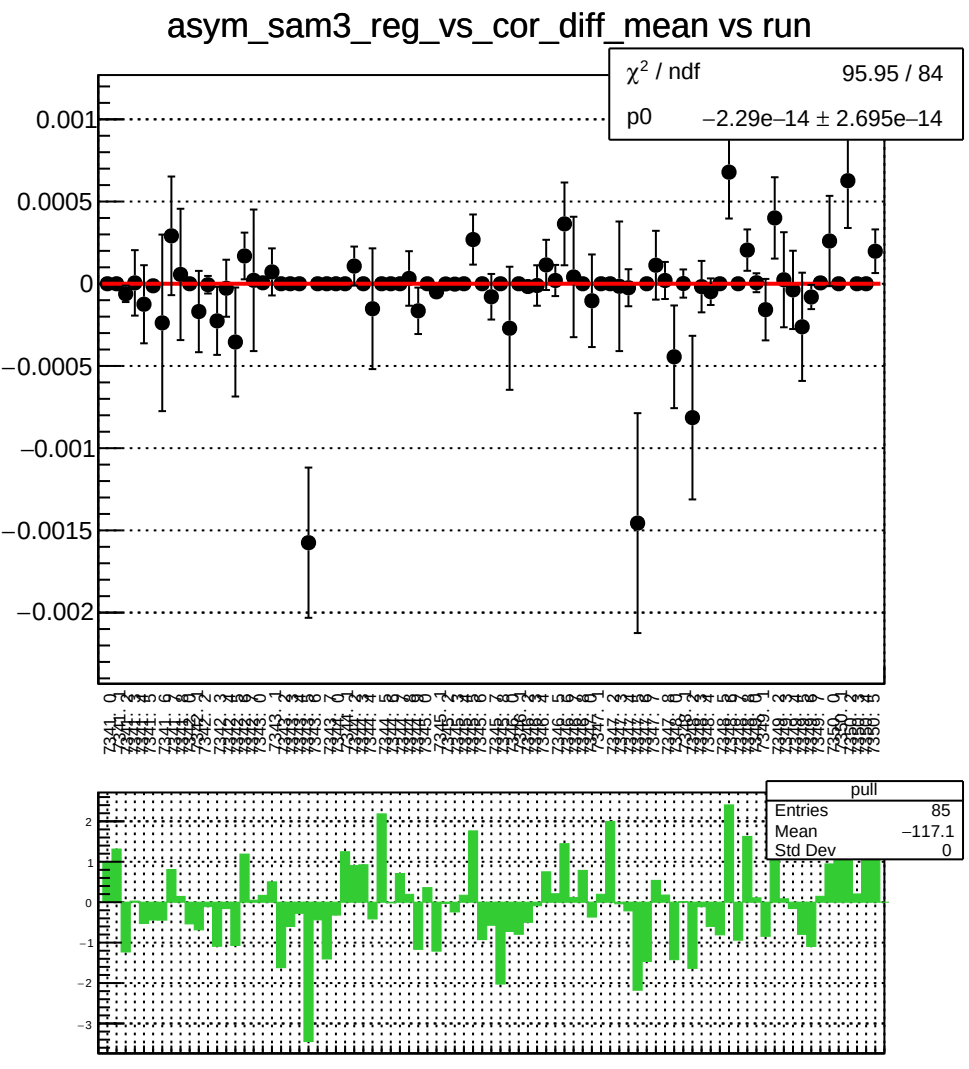

pull1D
Entries 85
Mean −0.0001472
Std Dev 0.9879

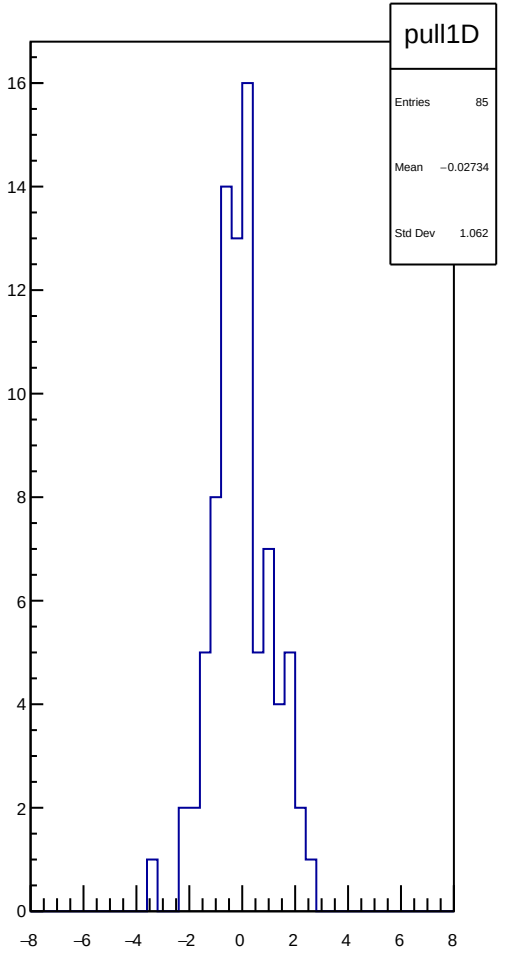

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 3866 / 84
p0 779.3 ± 0.6137
1000
950
900
850
800
750
700

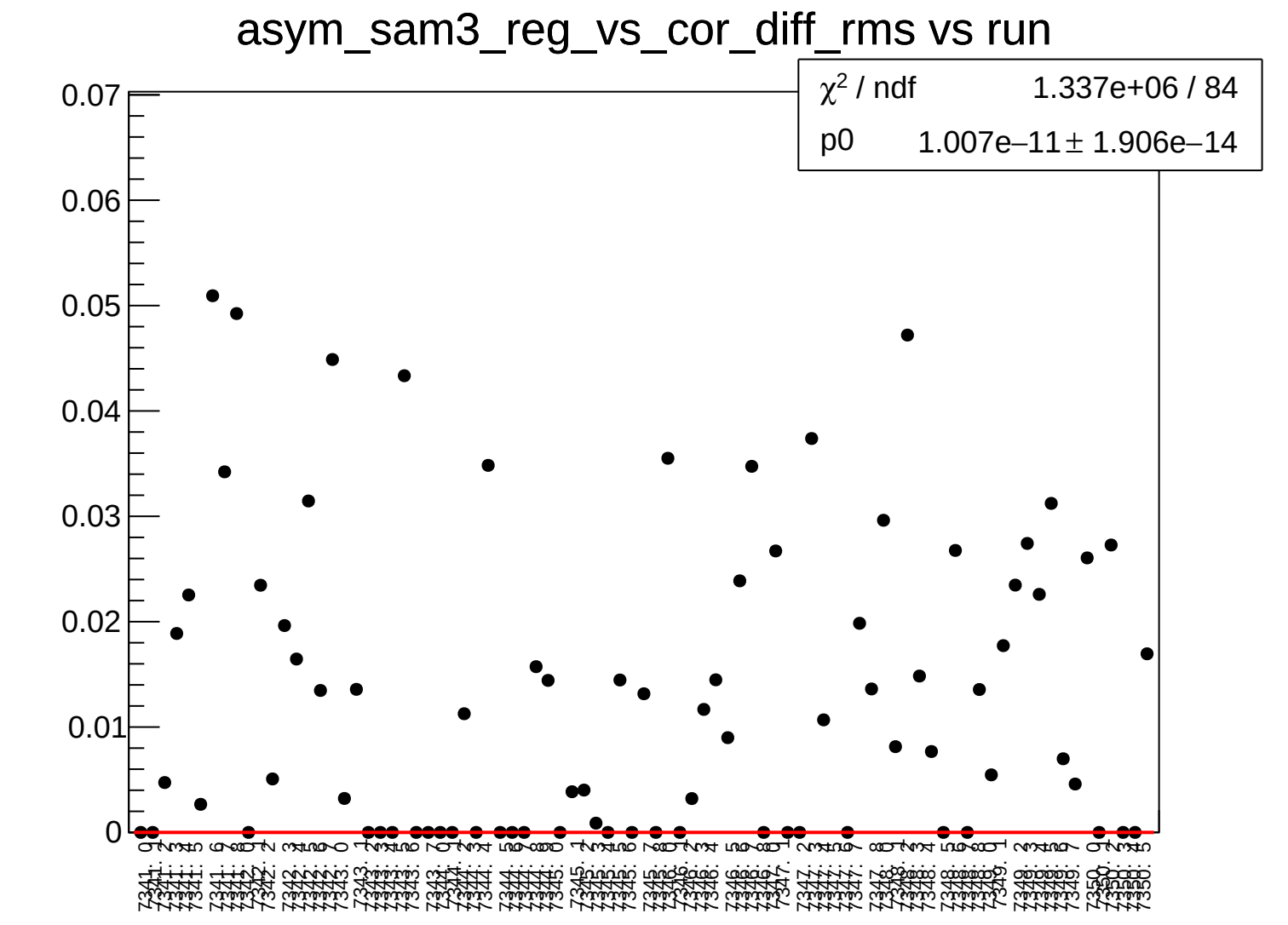

asym_sam3_mean vs run
χ² / ndf 82.82 / 84
p0 1429 ± 972.2
pull
Entries 85
Mean −1717
Std Dev 0

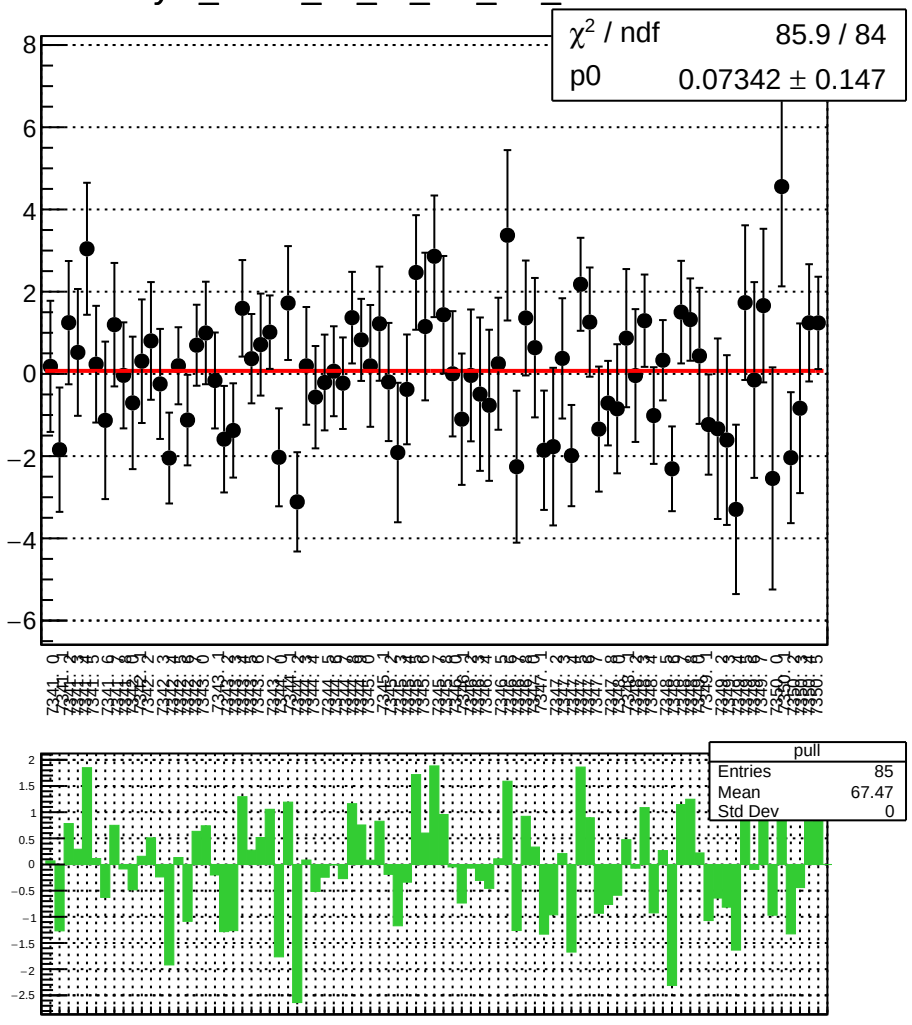

pull1D
Entries 85
Mean 0.001512
Std Dev 0.9871

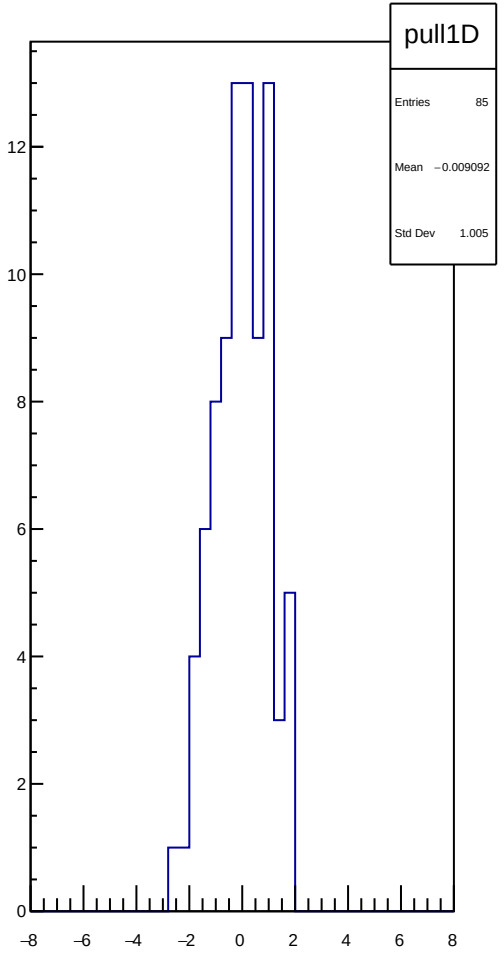

asym_sam3_rms vs run
χ² / ndf 1.058e+04 / 84
p0 871.2 ± 0.6875
1050
1000
950
900
850
800
750
700

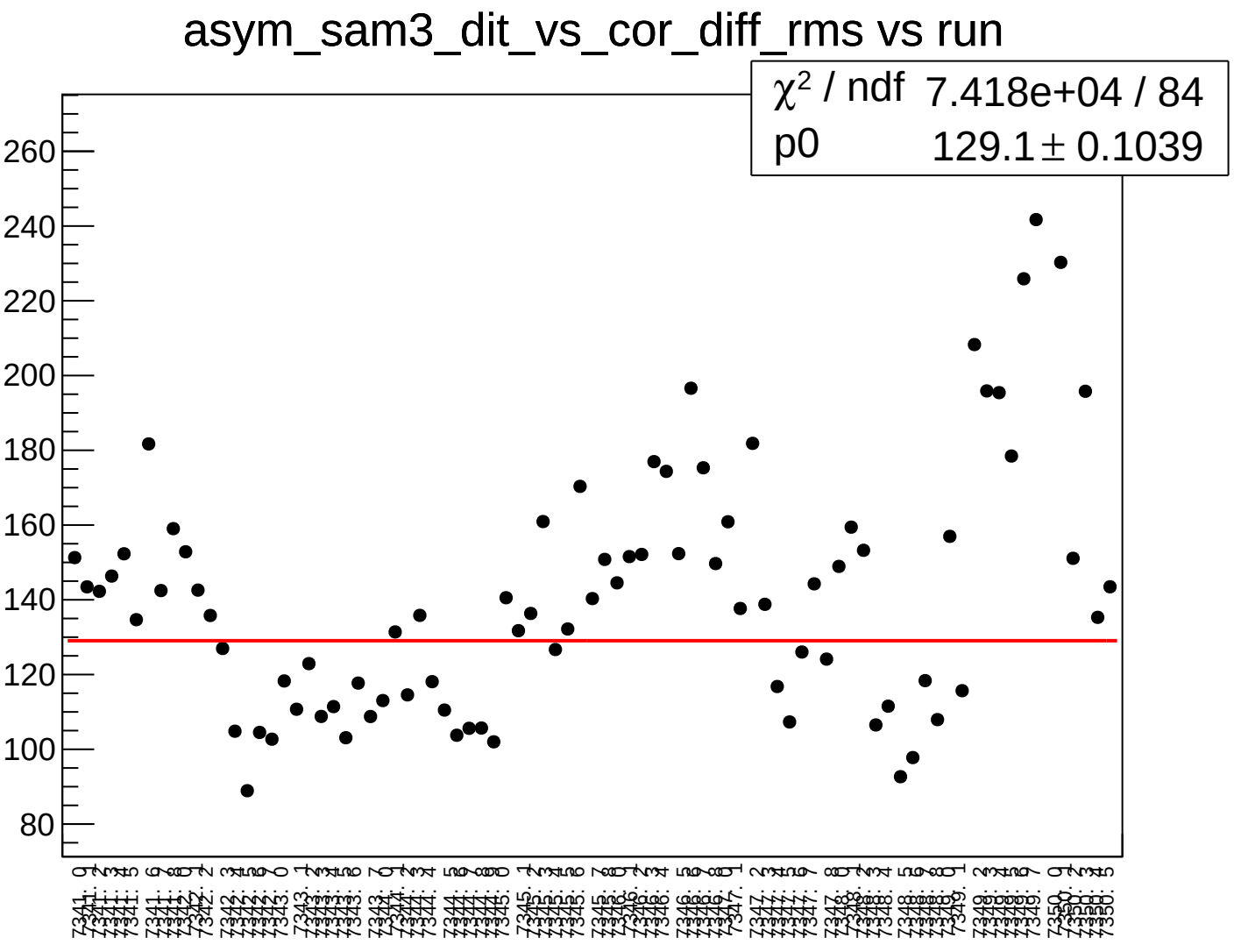

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 95.95 / 84
p0 −2.29e−14 ± 2.695e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 85
Mean −117.1
Std Dev 0
2
1
0
−1
−2
−3

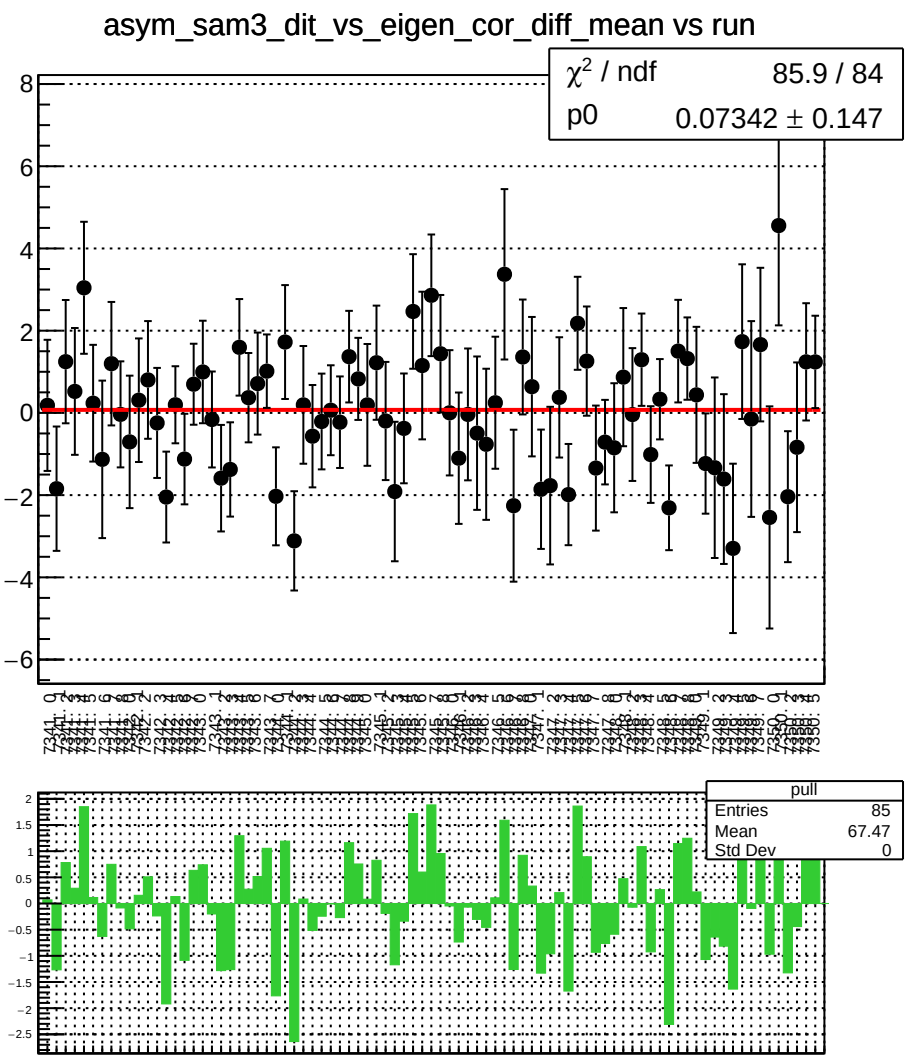

pull1D
Entries 85
Mean −0.02734
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

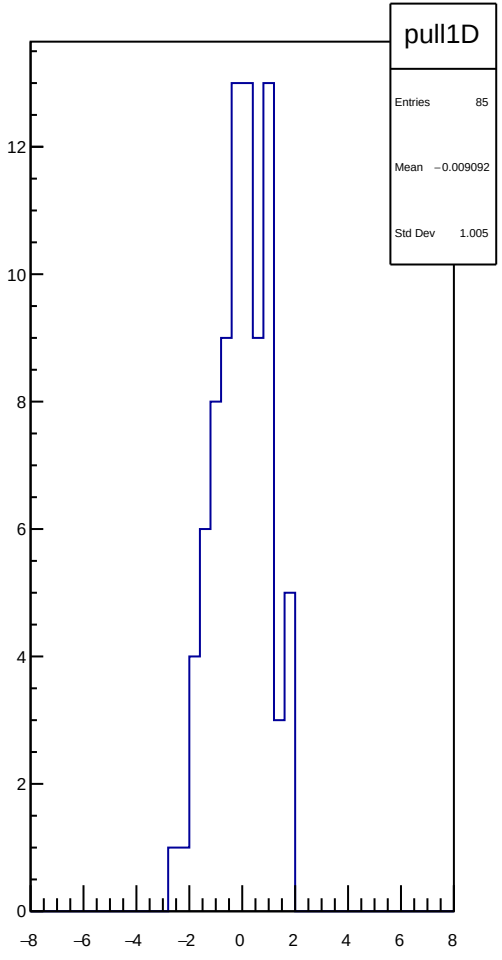

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.337e+06 / 84
p0 1.007e−11 ± 1.906e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

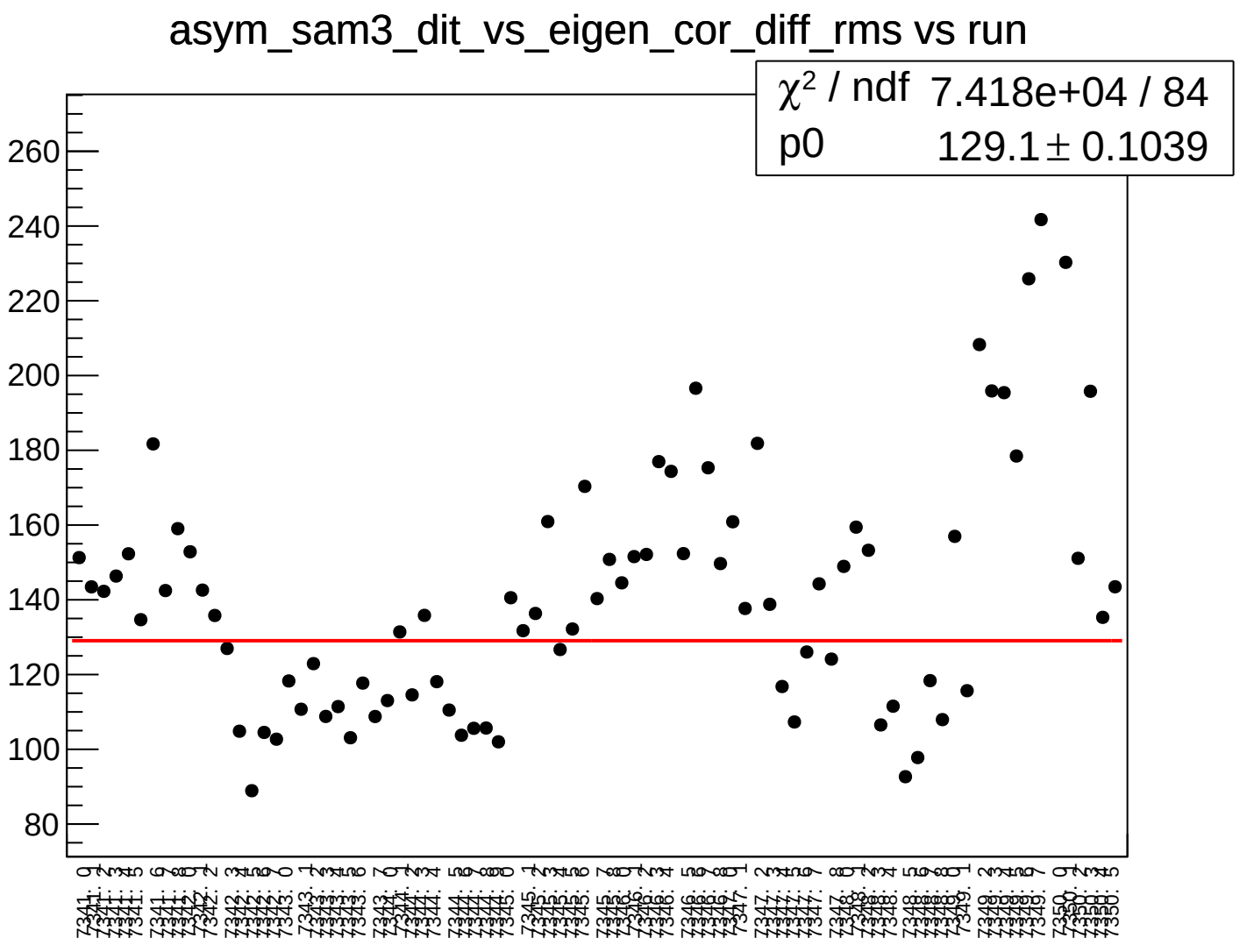

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 85.9 / 84
p0 0.07342 ± 0.147
pull
Entries 85
Mean 67.47
Std Dev 0

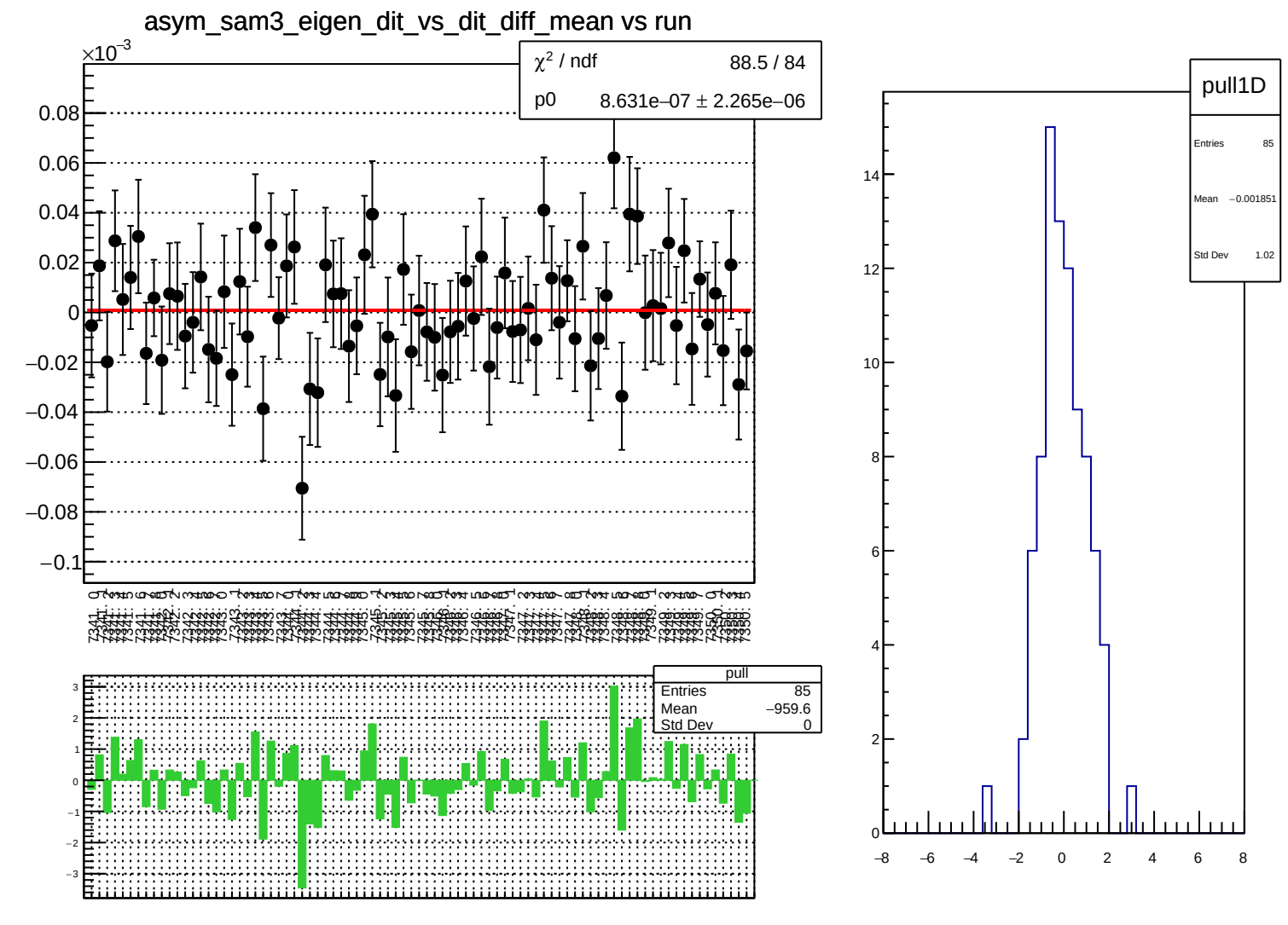

pull1D
Entries 85
Mean −0.009092
Std Dev 1.005

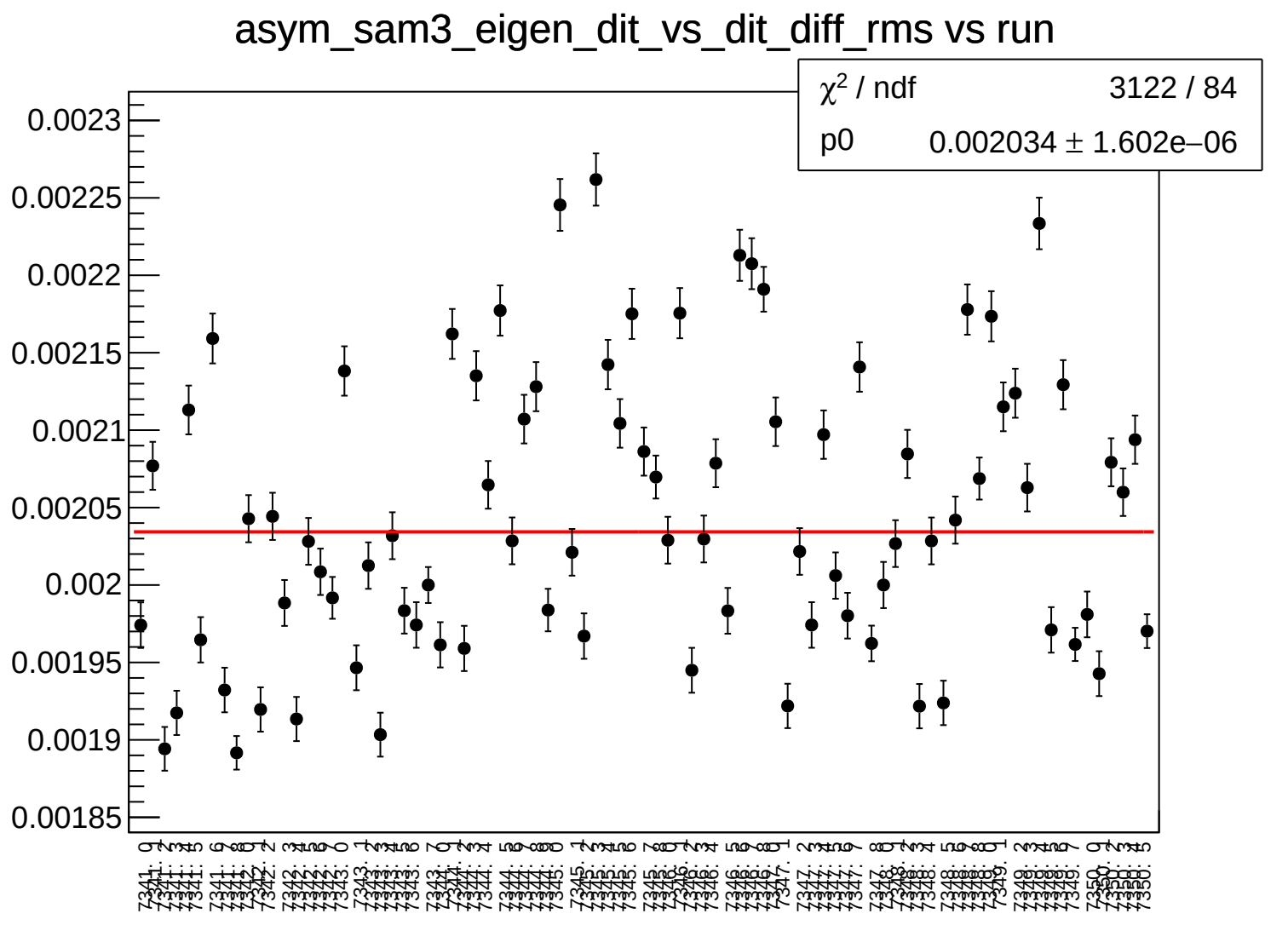

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 7.418e+04 / 84
p0 129.1 ± 0.1039
260
240
220
200
180
160
140
120
100
80

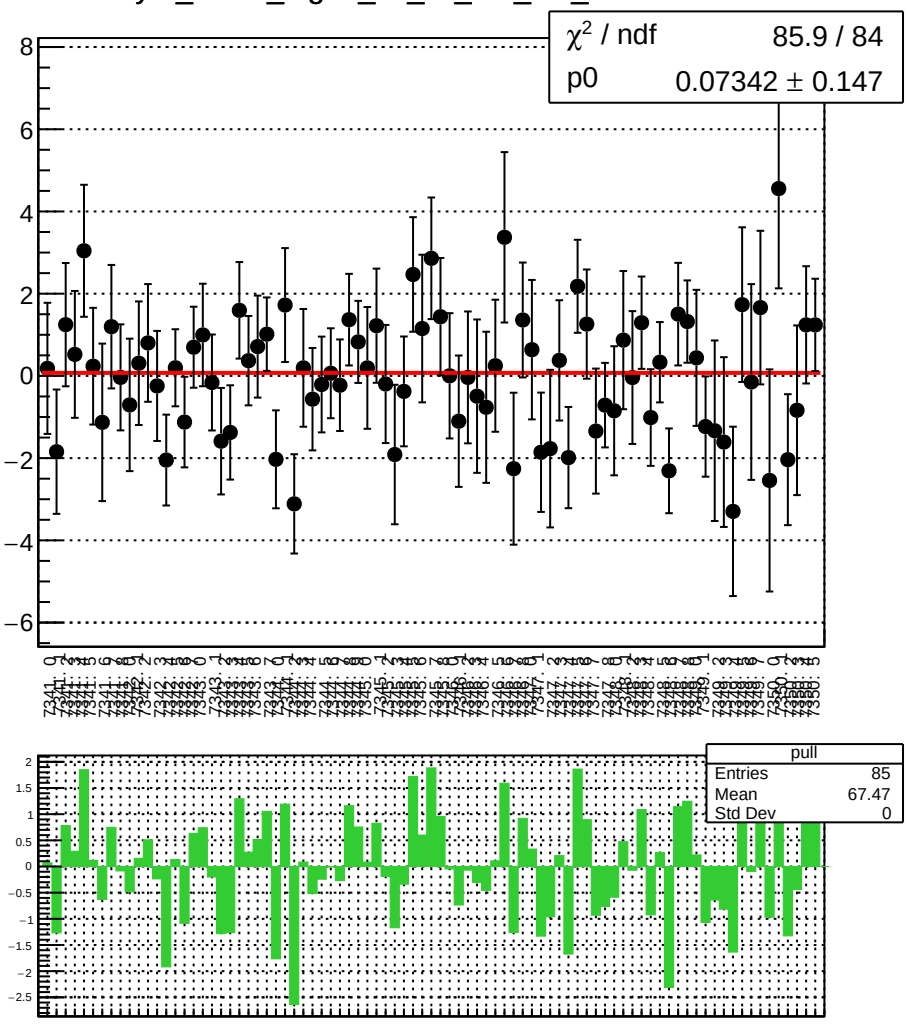

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.9 / 84
p0 0.07342 ± 0.147
pull
Entries 85
Mean 67.47
Std Dev 0

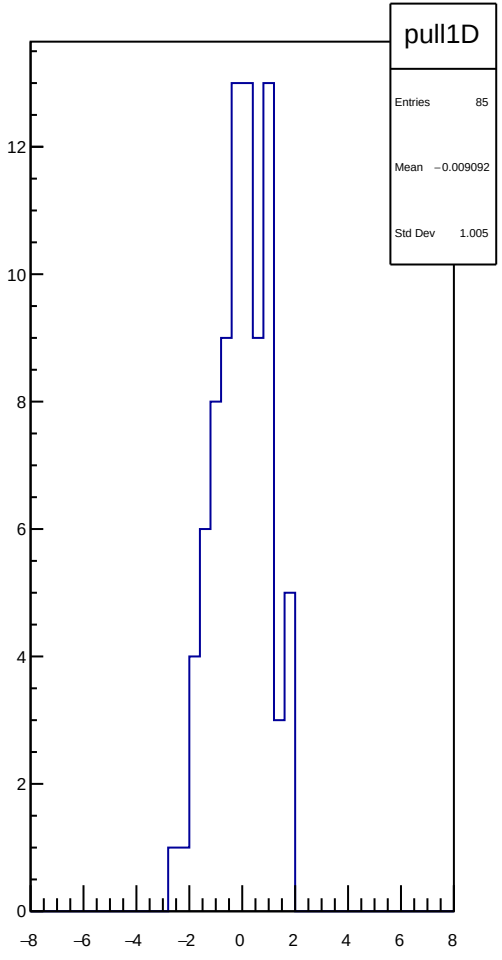

pull1D
Entries 85
Mean −0.009092
Std Dev 1.005

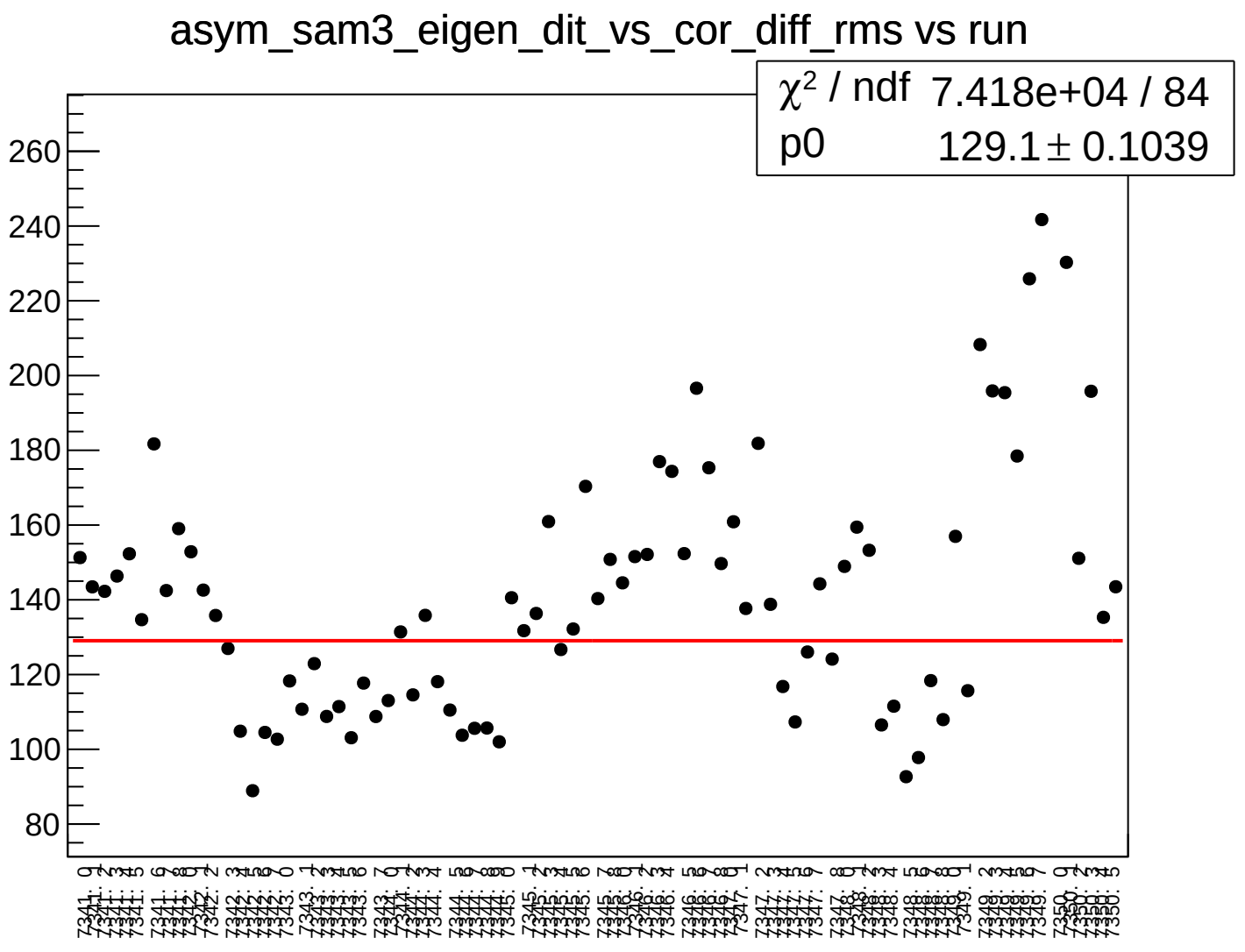

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.418e+04 / 84
p0 129.1 ± 0.1039
260
240
220
200
180
160
140
120
100
80

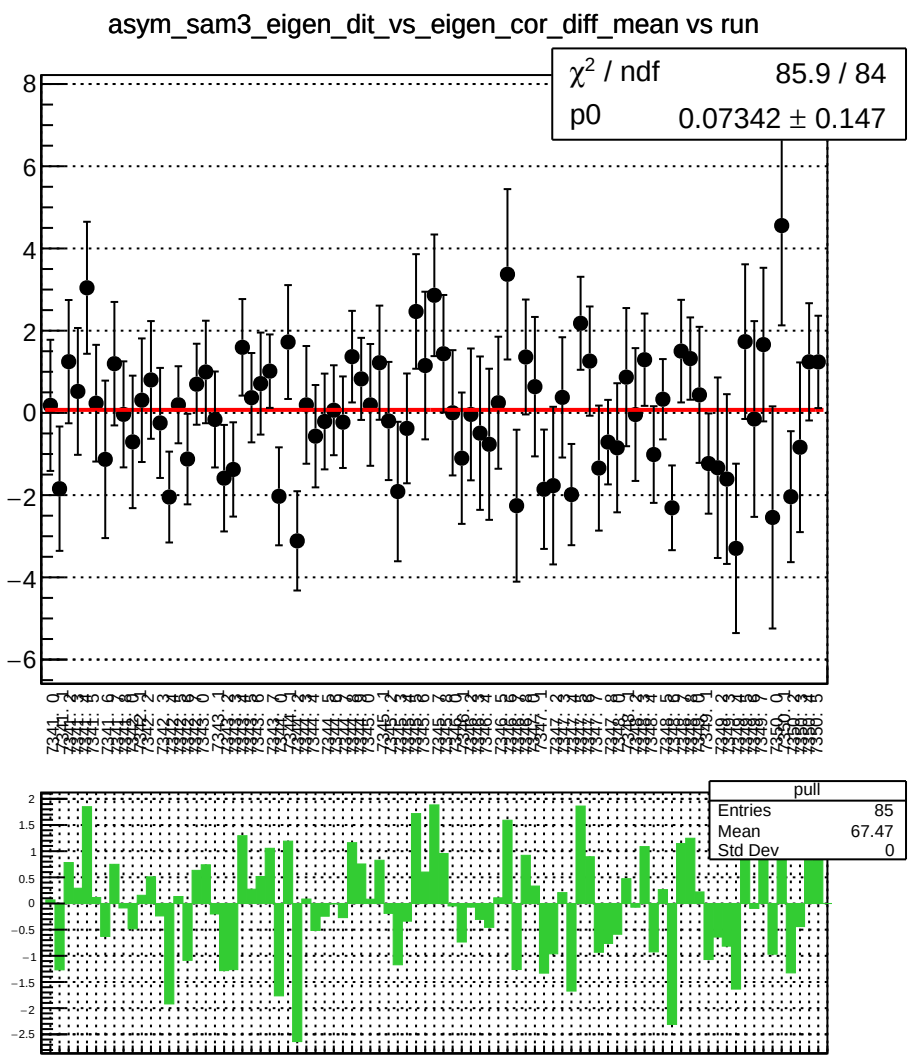

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.5 / 84
p0 8.631e−07 ± 2.265e−06
pull
Entries 85
Mean −959.6
Std Dev 0
pull1D
Entries 85
Mean −0.001851
Std Dev 1.02

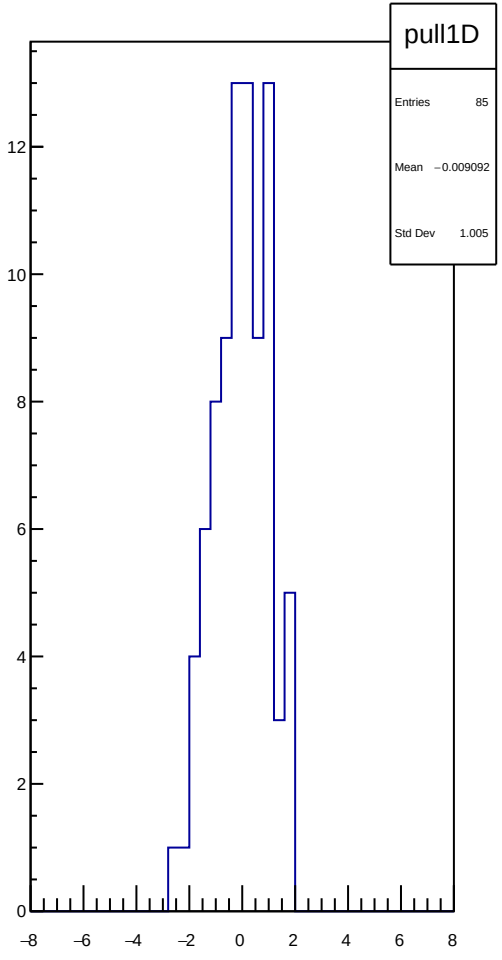

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3122 / 84
p0 0.002034 ± 1.602e−06
0.0023
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185

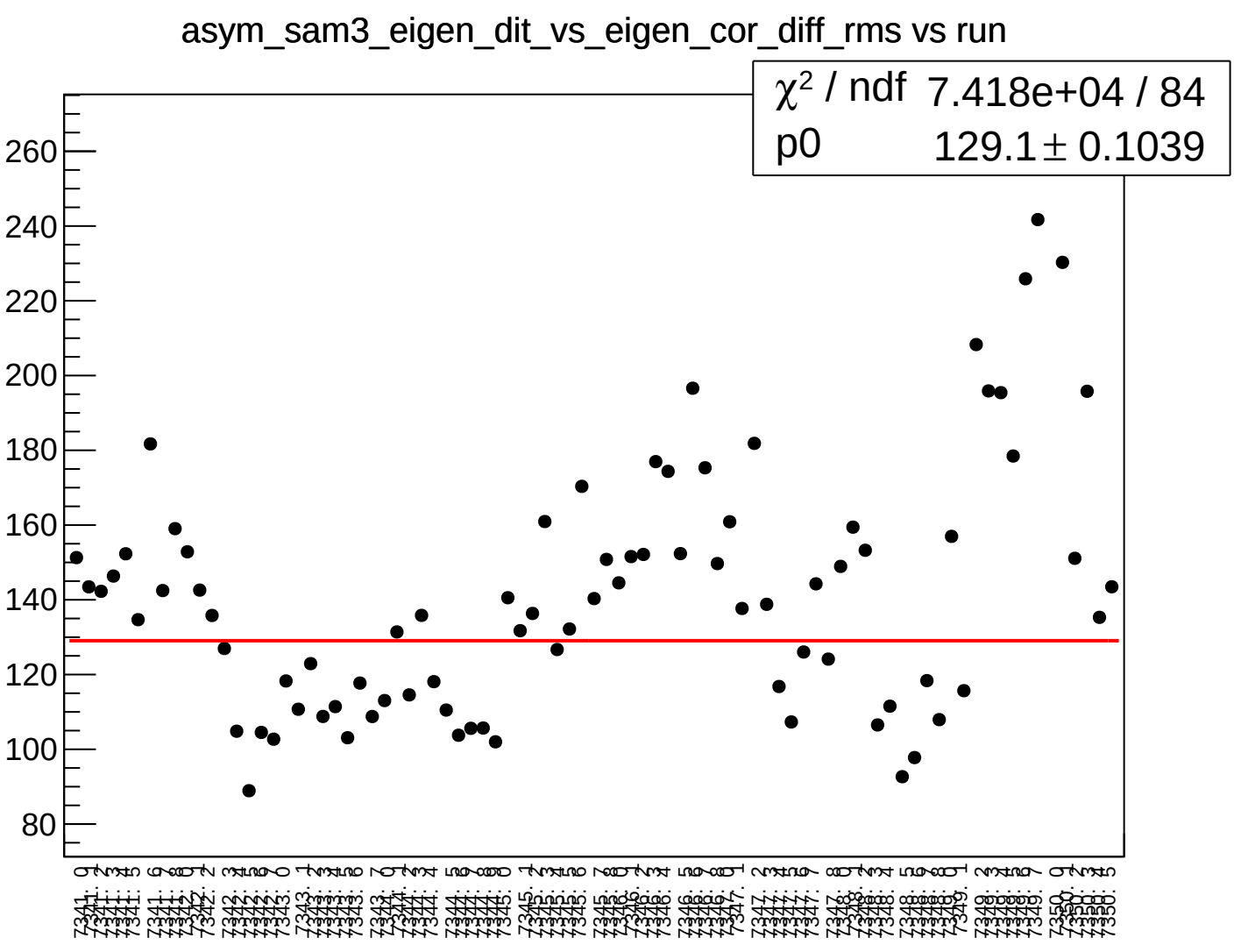

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.9 / 84
p0 0.07342 ± 0.147
pull
Entries 85
Mean 67.47
Std Dev 0

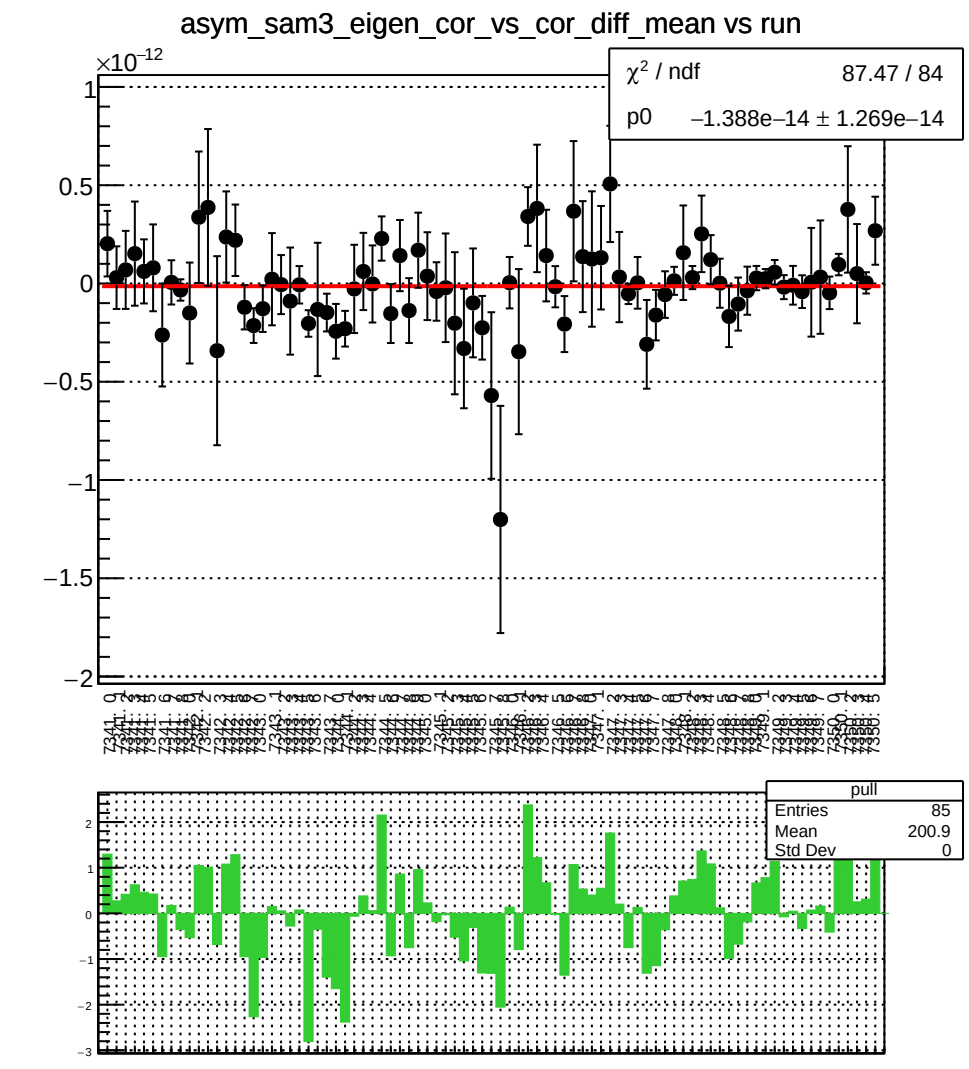

pull1D
Entries 85
Mean −0.009092
Std Dev 1.005

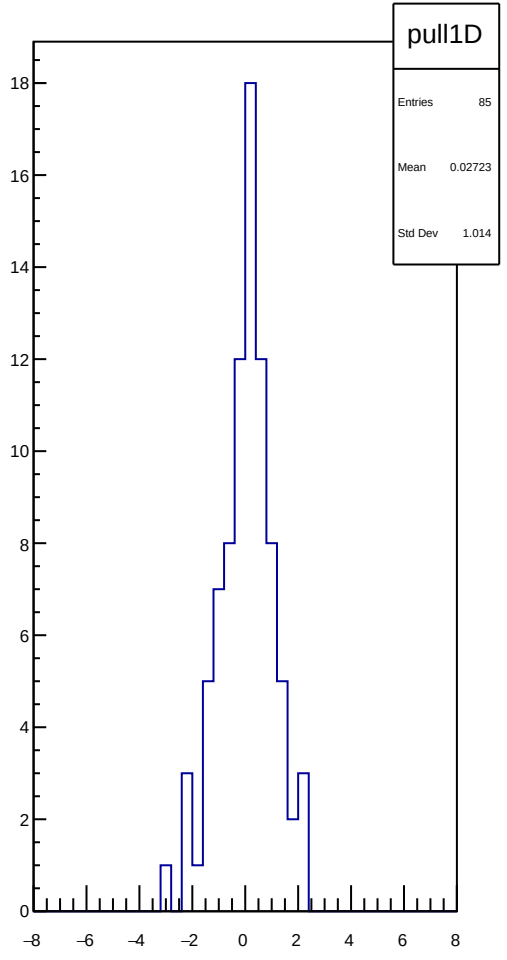

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.418e+04 / 84
p0 129.1 ± 0.1039
260
240
220
200
180
160
140
120
100
80

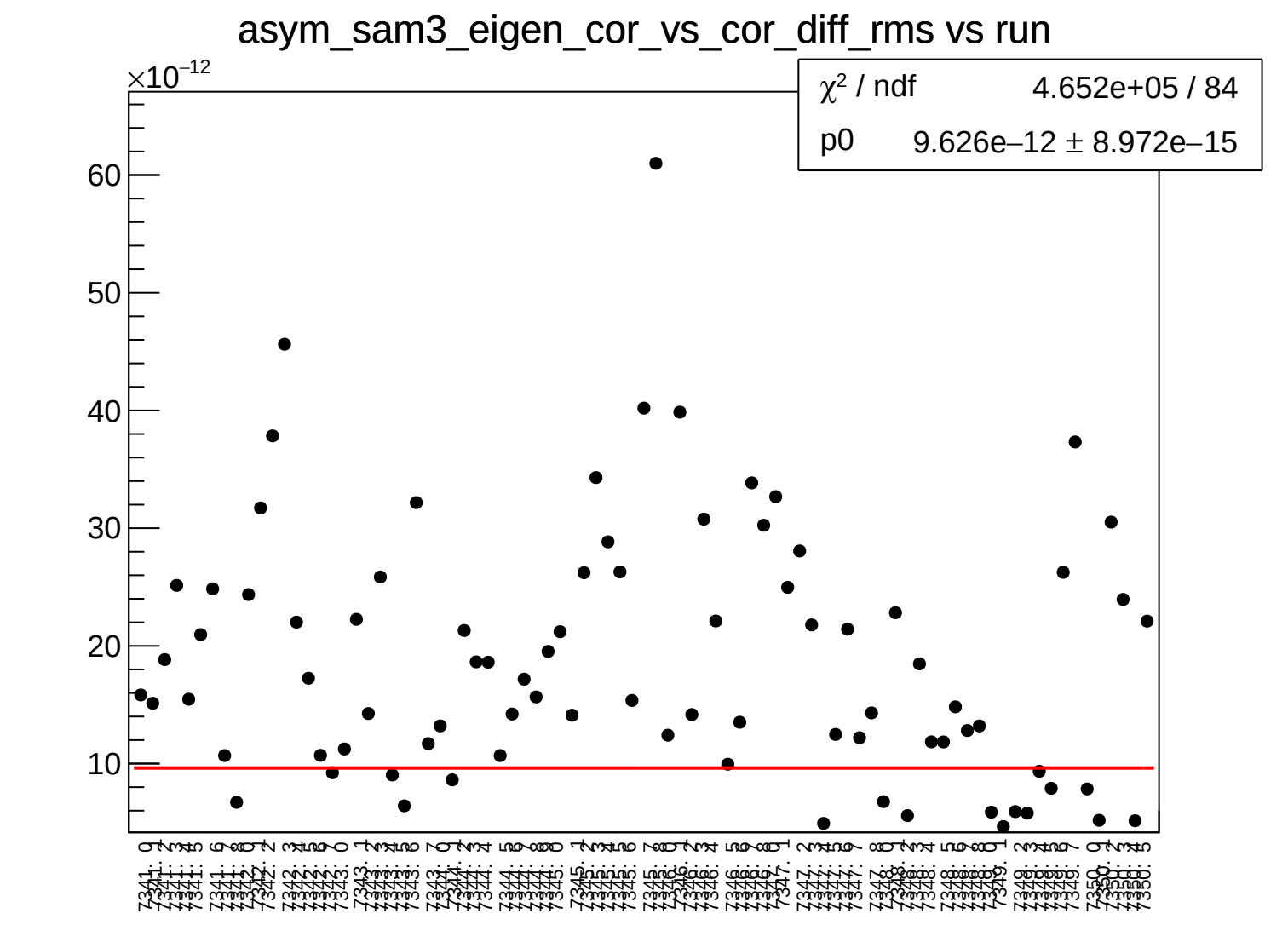

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.9 / 84
p0 0.07342 ± 0.147
pull
Entries 85
Mean 67.47
Std Dev 0

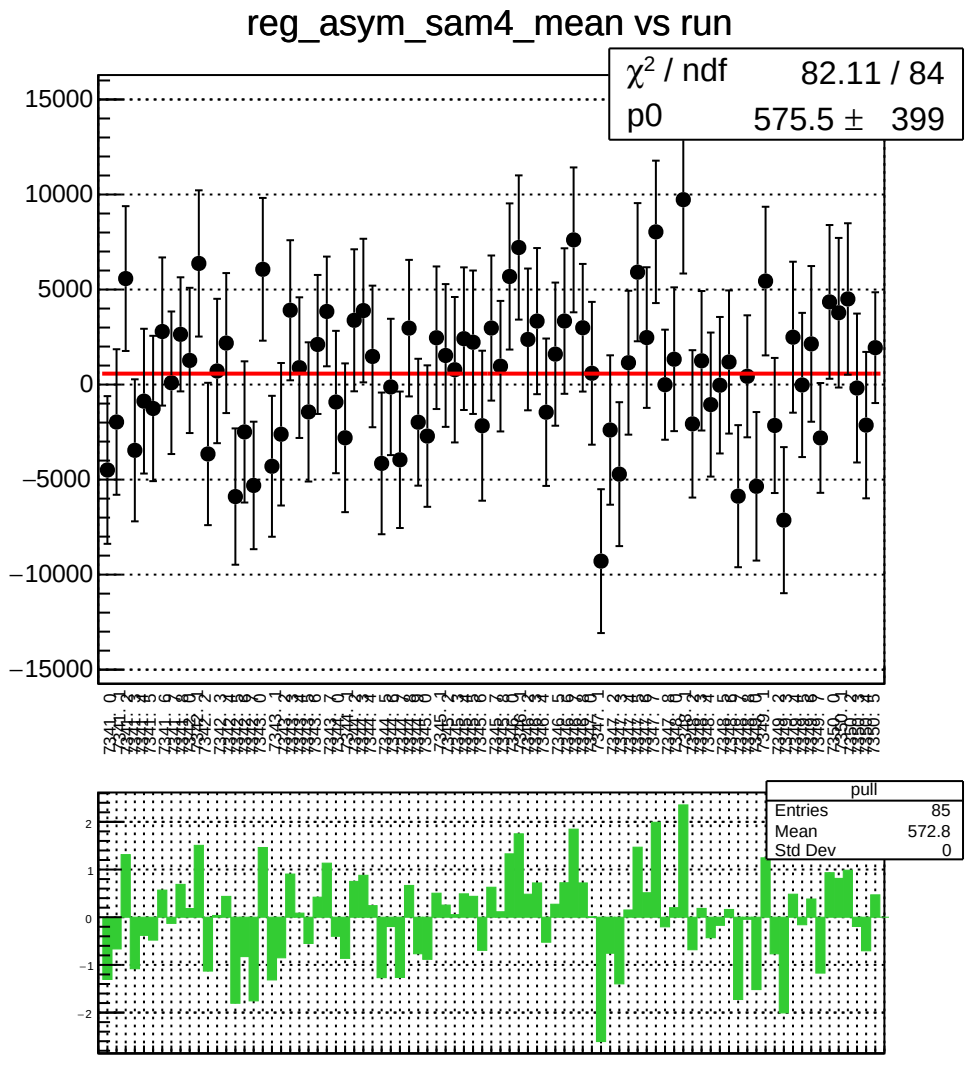

pull1D
Entries 85
Mean −0.009092
Std Dev 1.005

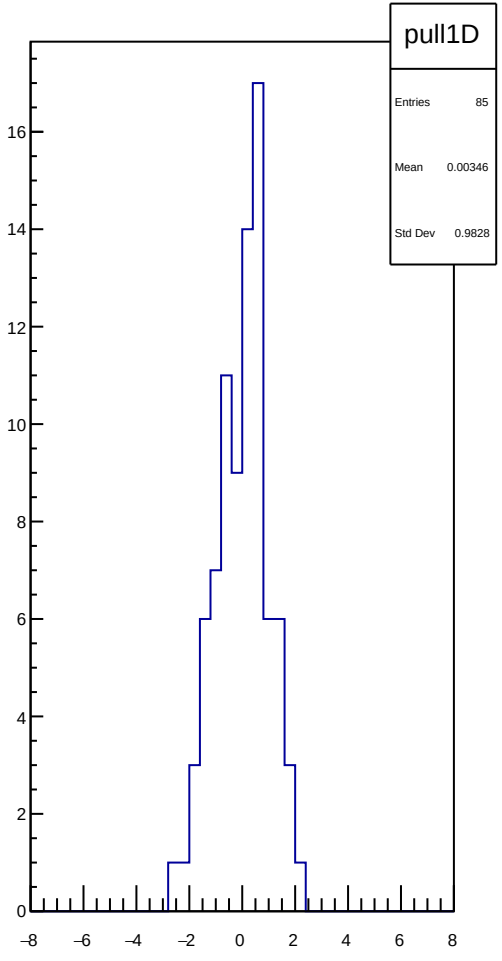

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.418e+04 / 84
p0 129.1 ± 0.1039
260
240
220
200
180
160
140
120
100
80

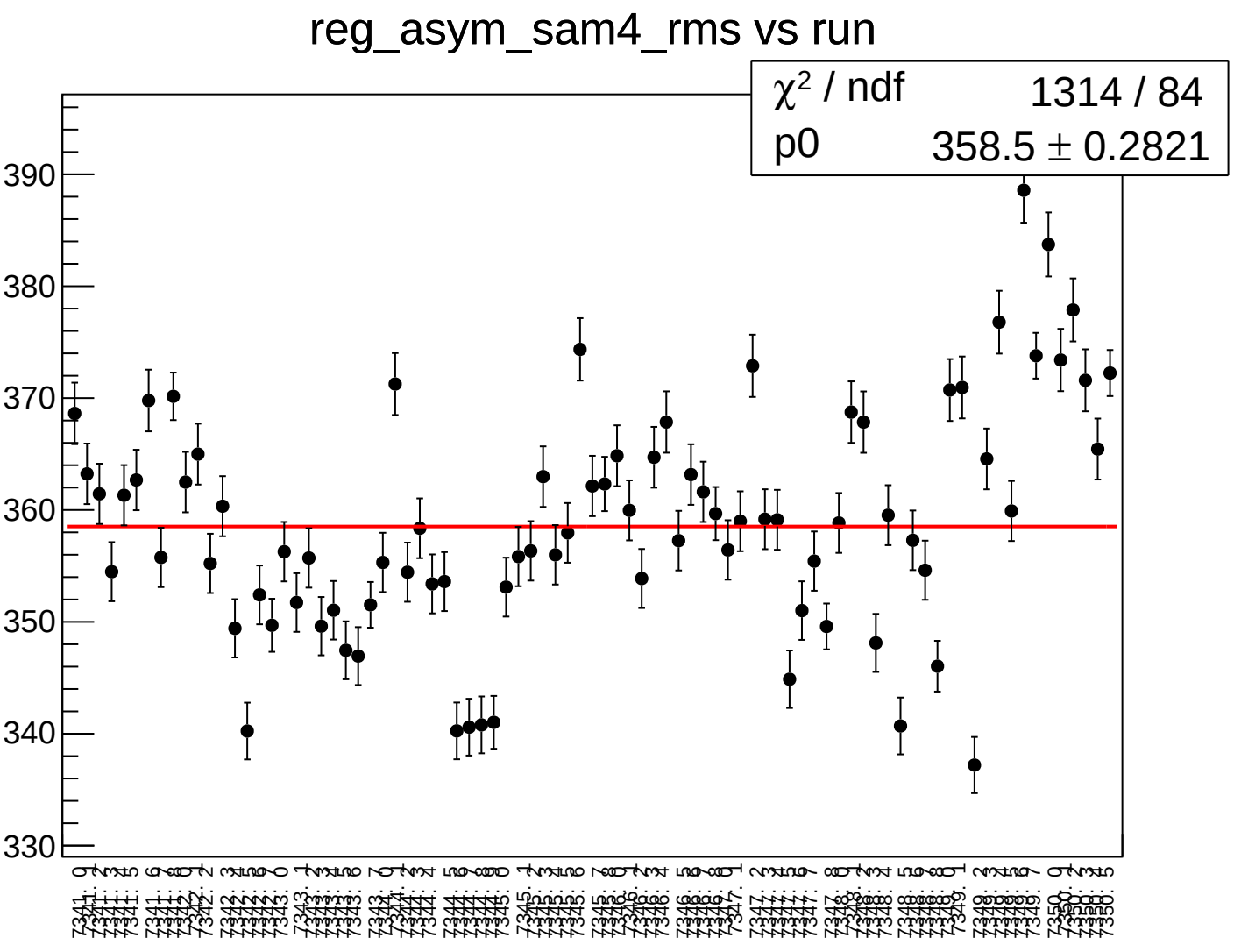

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.47 / 84
p0 −1.388e−14 ± 1.269e−14
pull
Entries 85
Mean 200.9
Std Dev 0

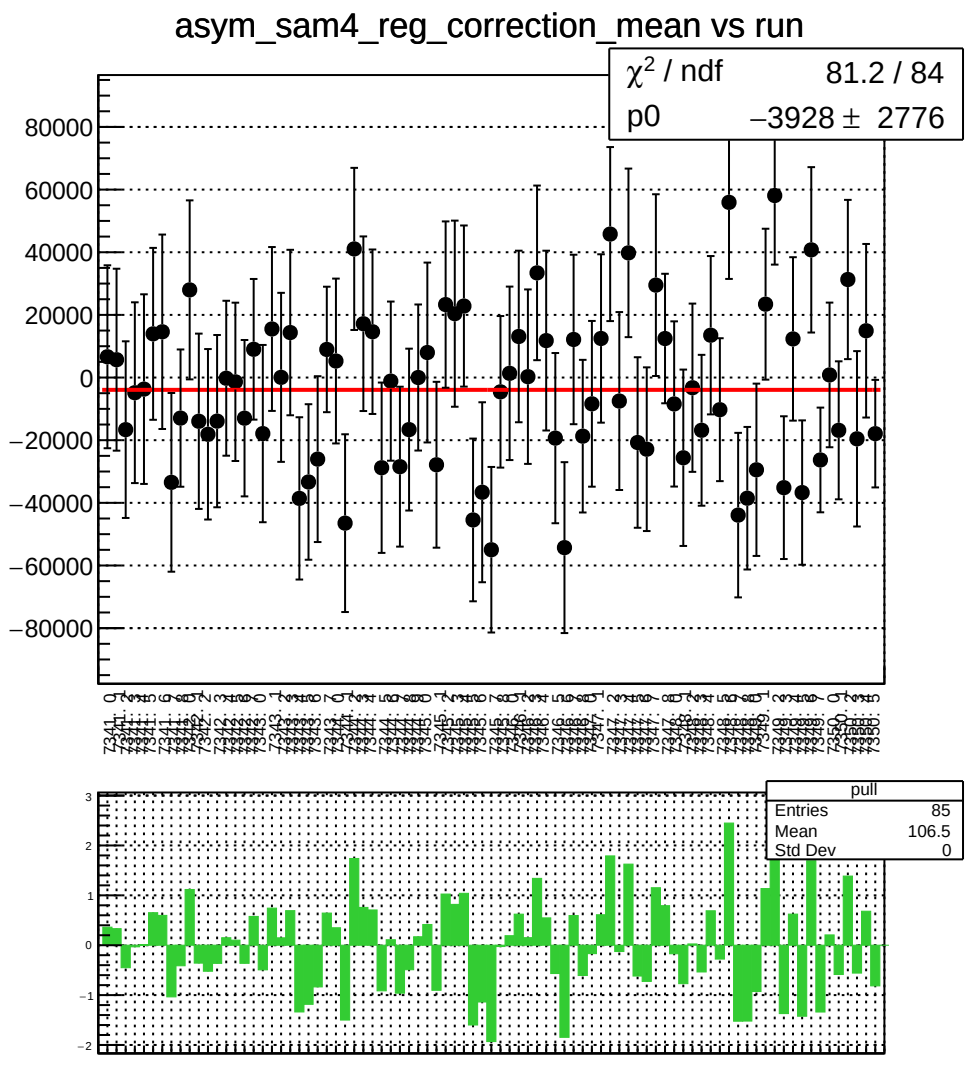

pull1D
Entries 85
Mean 0.02723
Std Dev 1.014

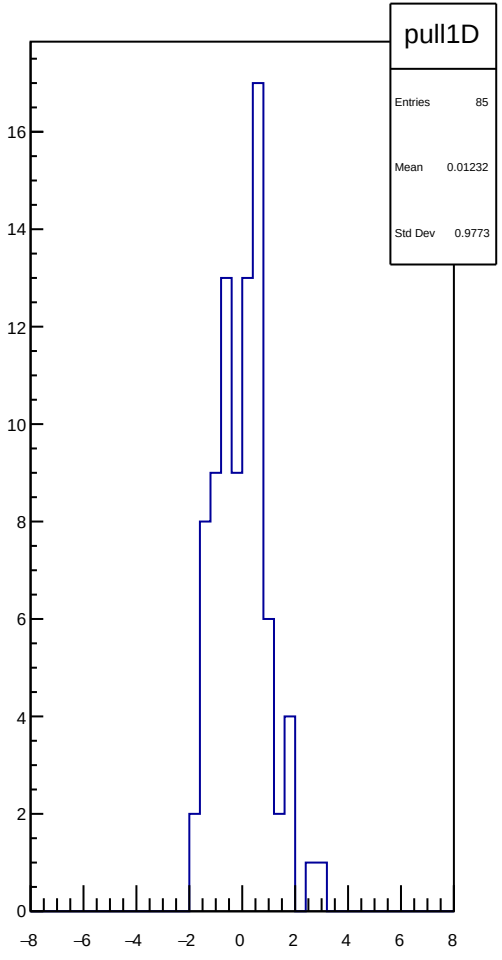

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.652e+05 / 84
p0 9.626e−12 ± 8.972e−15
60
50
40
30
20
10

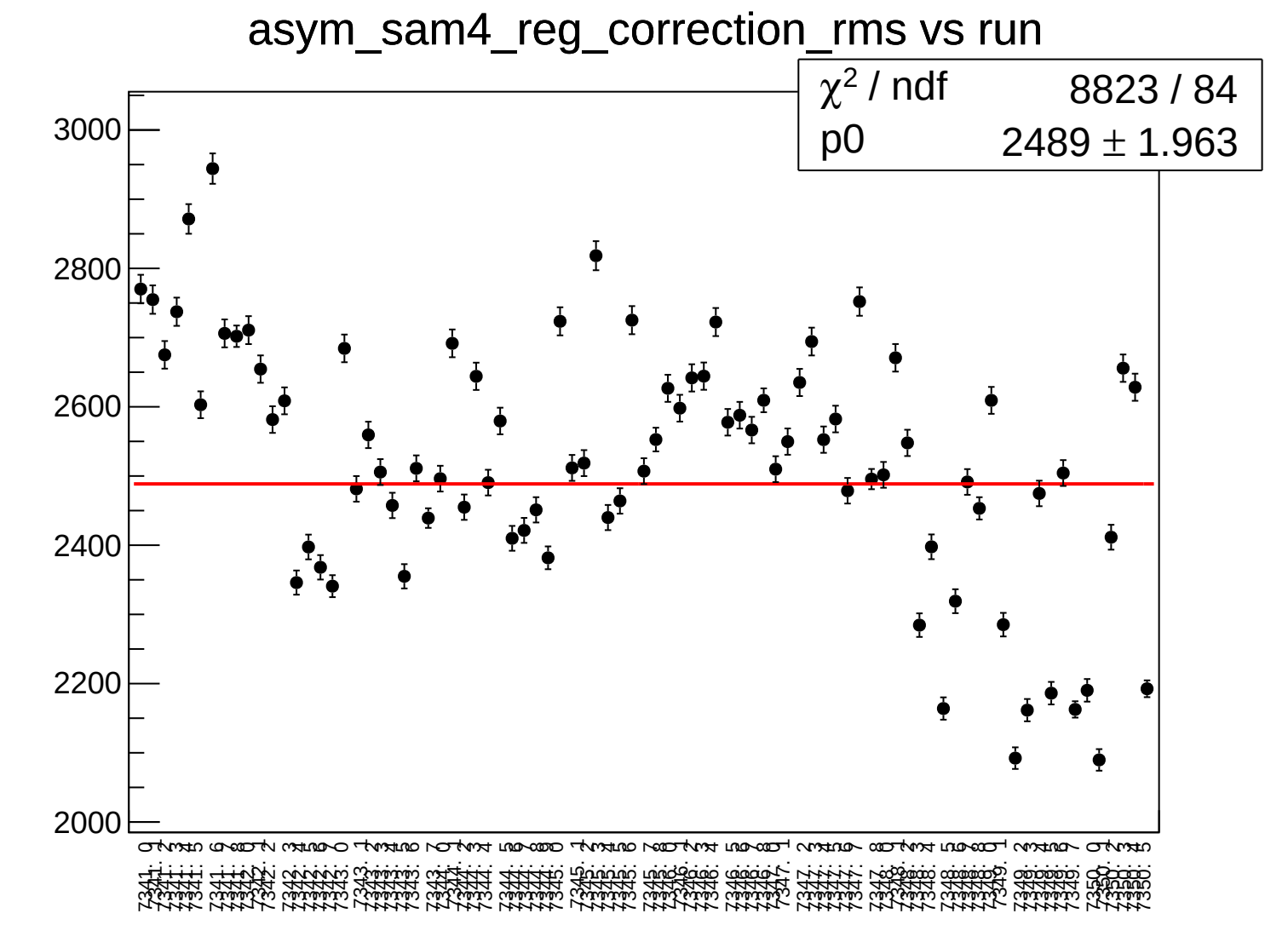

reg_asym_sam4_mean vs run
χ² / ndf 82.11 / 84
p0 575.5 ± 399
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 572.8
Std Dev 0
2
1
0
−1
−2

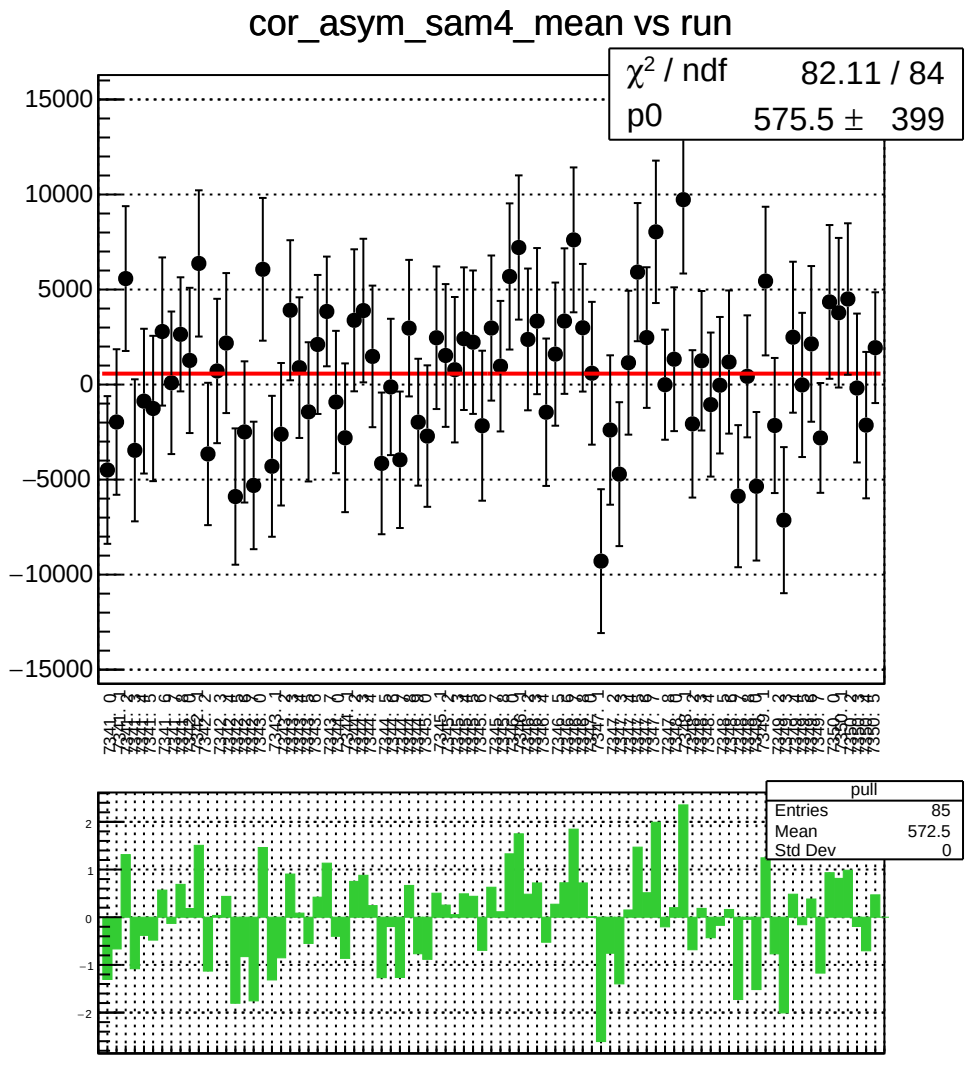

pull1D
Entries 85
Mean 0.00346
Std Dev 0.9828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

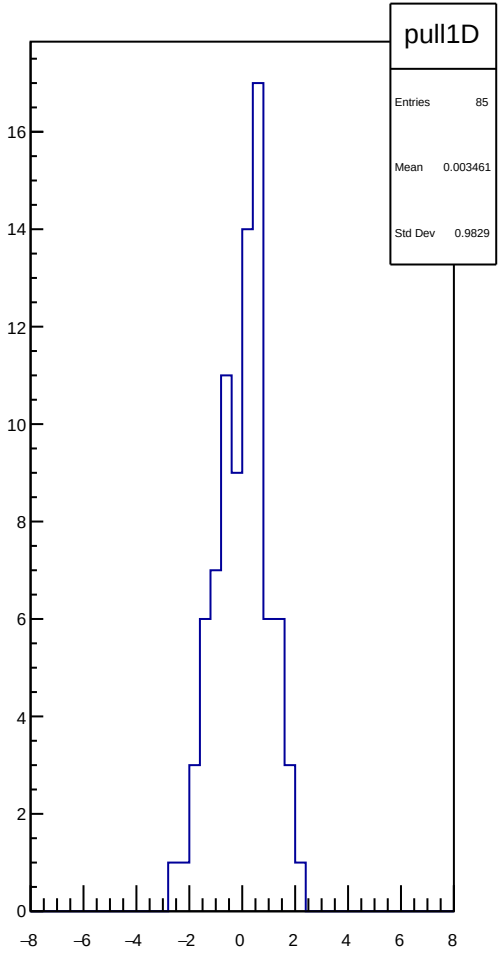

reg_asym_sam4_rms vs run
χ² / ndf 1314 / 84
p0 358.5 ± 0.2821
390
380
370
360
350
340
330

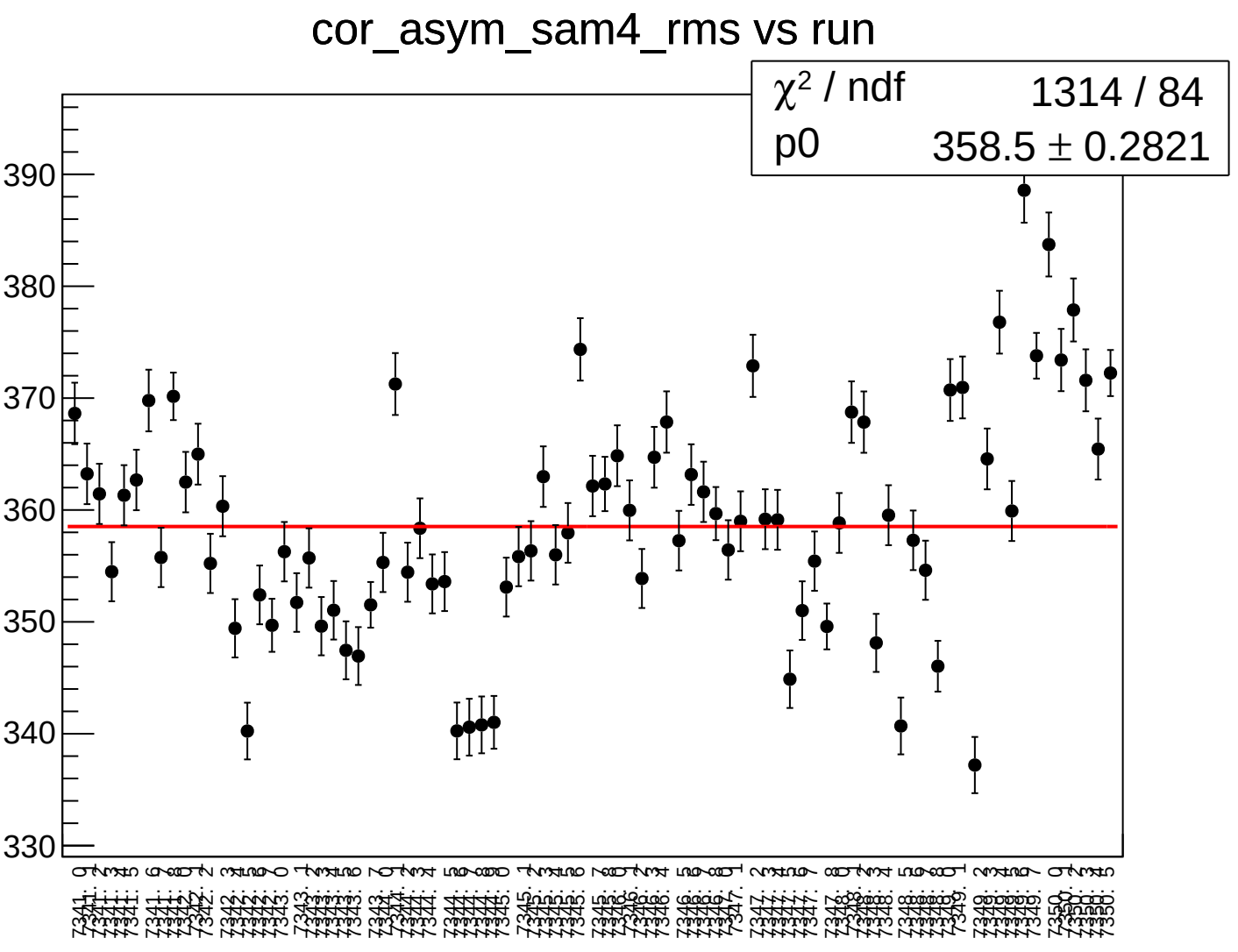

asym_sam4_reg_correction_mean vs run
χ² / ndf 81.2 / 84
p0 −3928 ± 2776
pull
Entries 85
Mean 106.5
Std Dev 0

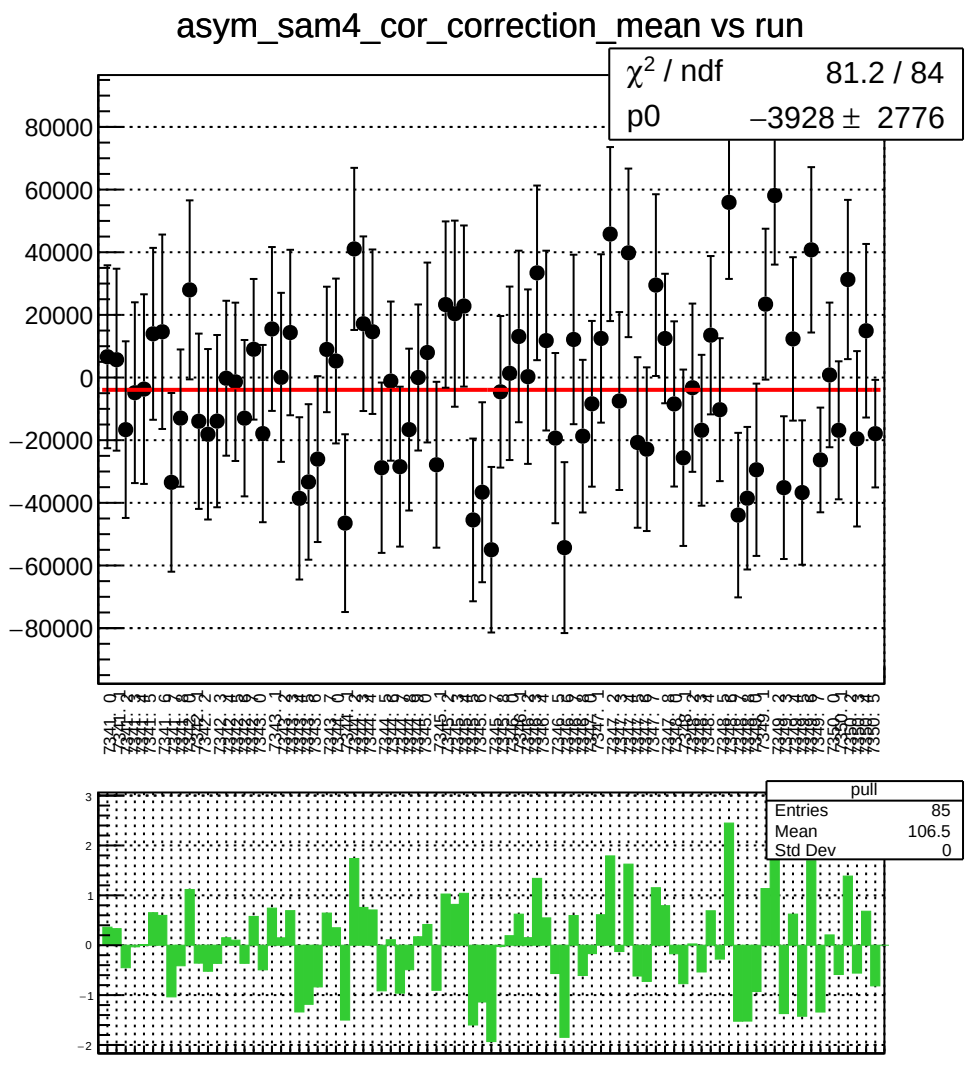

pull1D
Entries 85
Mean 0.01232
Std Dev 0.9773

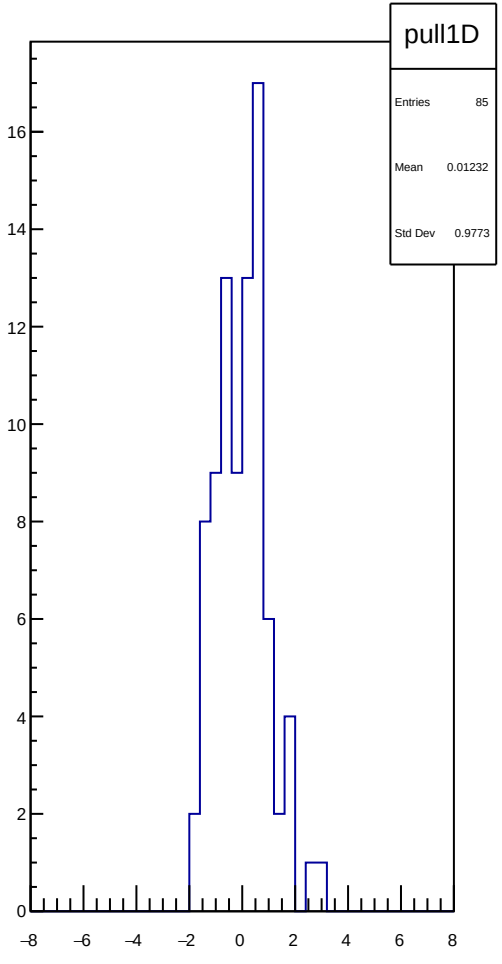

asym_sam4_reg_correction_rms vs run
χ² / ndf 8823 / 84
p0 2489 ± 1.963
3000
2800
2600
2400
2200
2000

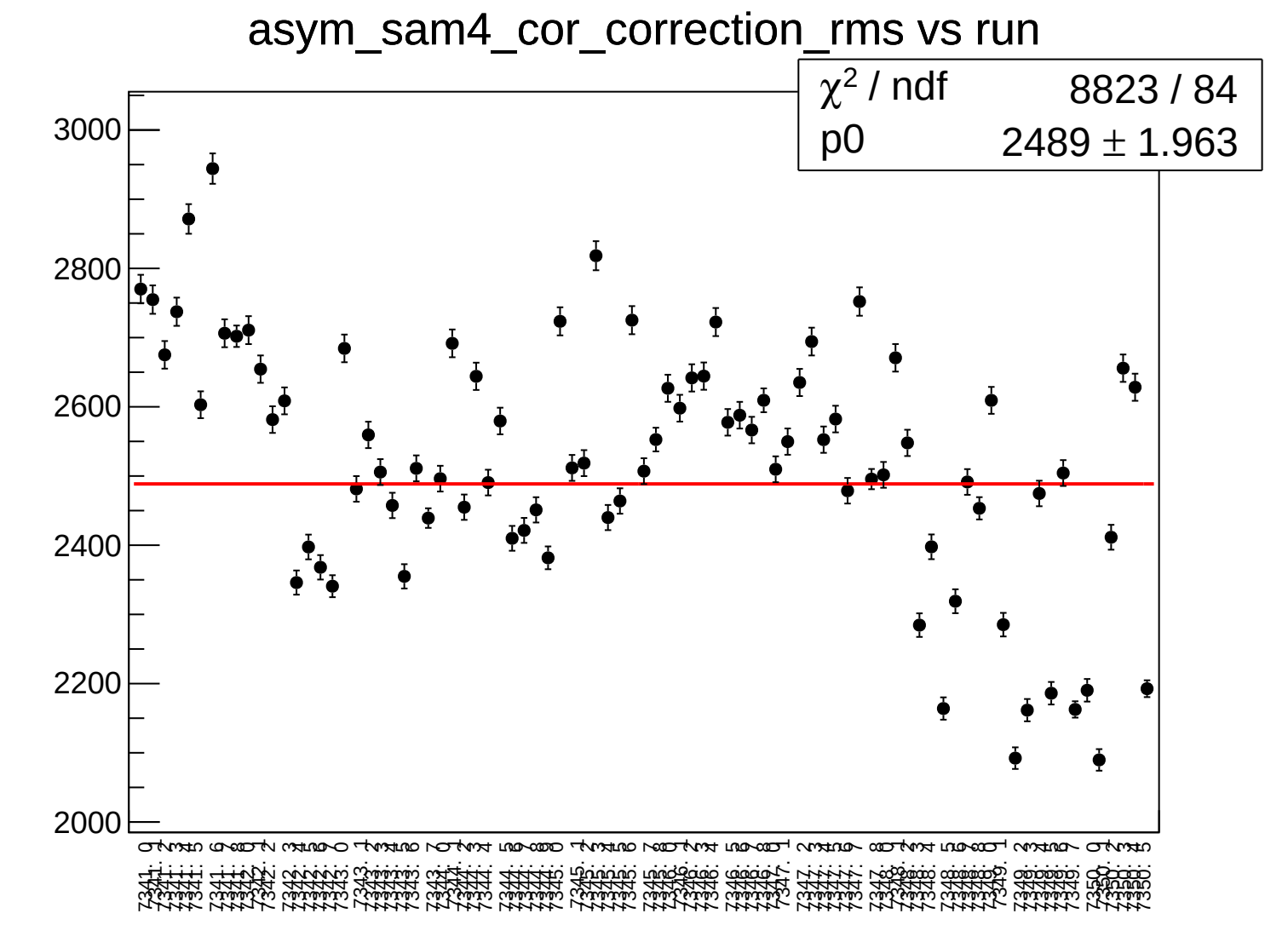

cor_asym_sam4_mean vs run
χ² / ndf 82.11 / 84
p0 575.5 ± 399
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 572.5
Std Dev 0
2
1
0
−1
−2

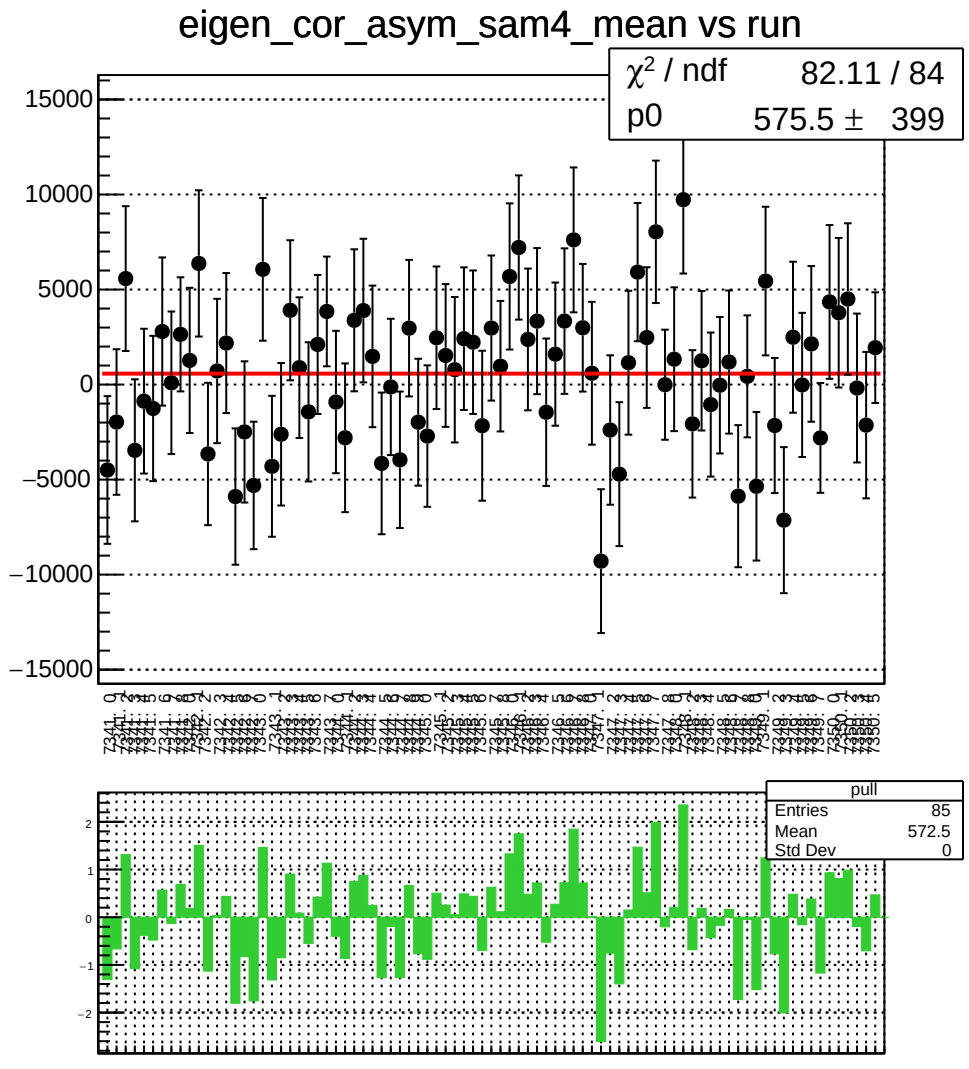

pull1D
Entries 85
Mean 0.003461
Std Dev 0.9829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

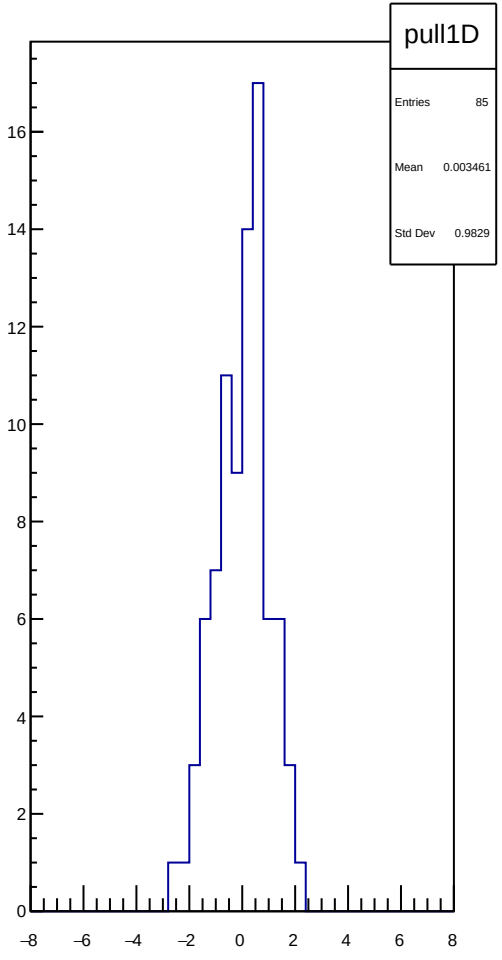

cor_asym_sam4_rms vs run
χ² / ndf 1314 / 84
p0 358.5 ± 0.2821
390
380
370
360
350
340
330

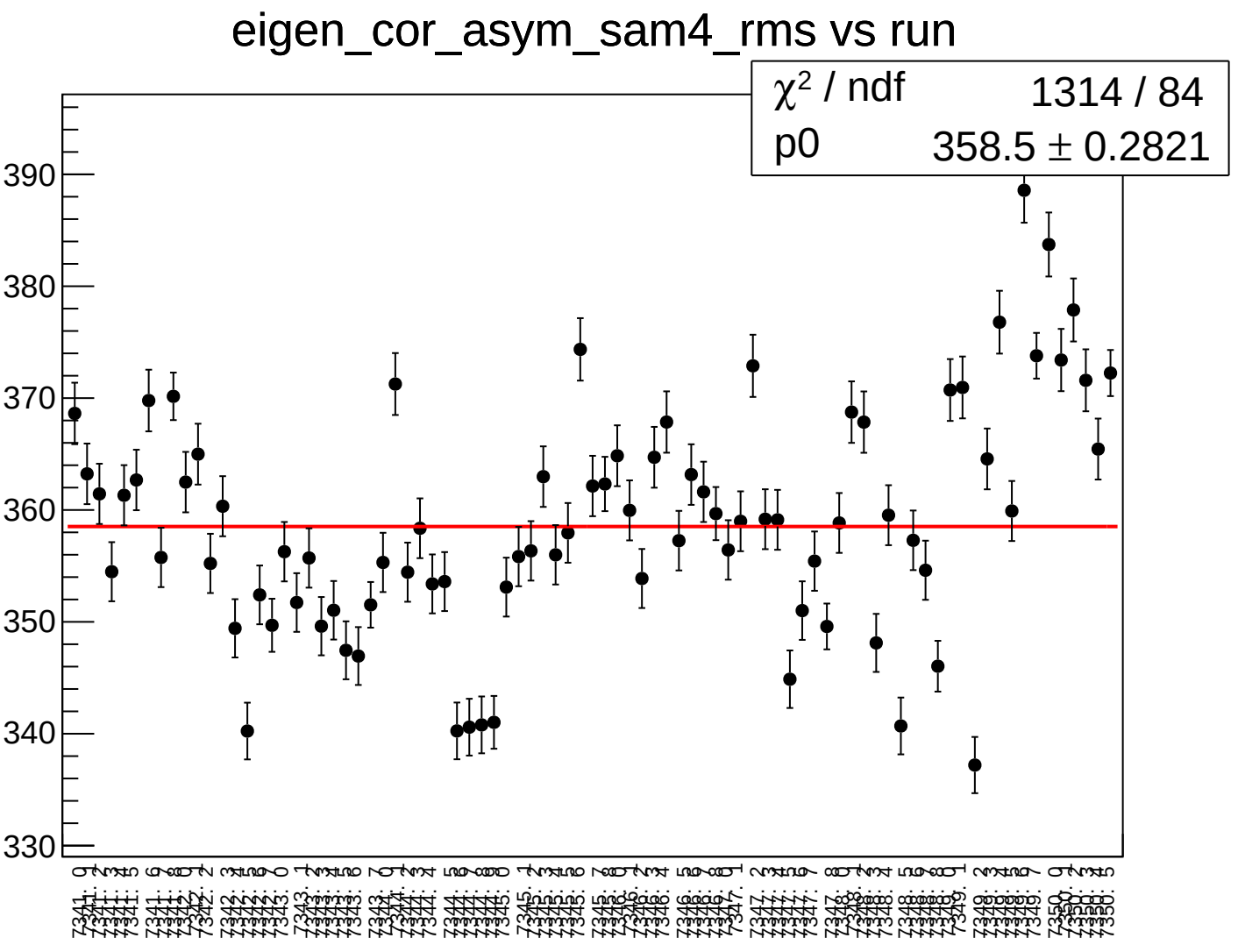

asym_sam4_cor_correction_mean vs run
χ² / ndf 81.2 / 84
p0 −3928 ± 2776
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 85
Mean 106.5
Std Dev 0
3
2
1
0
−1
−2

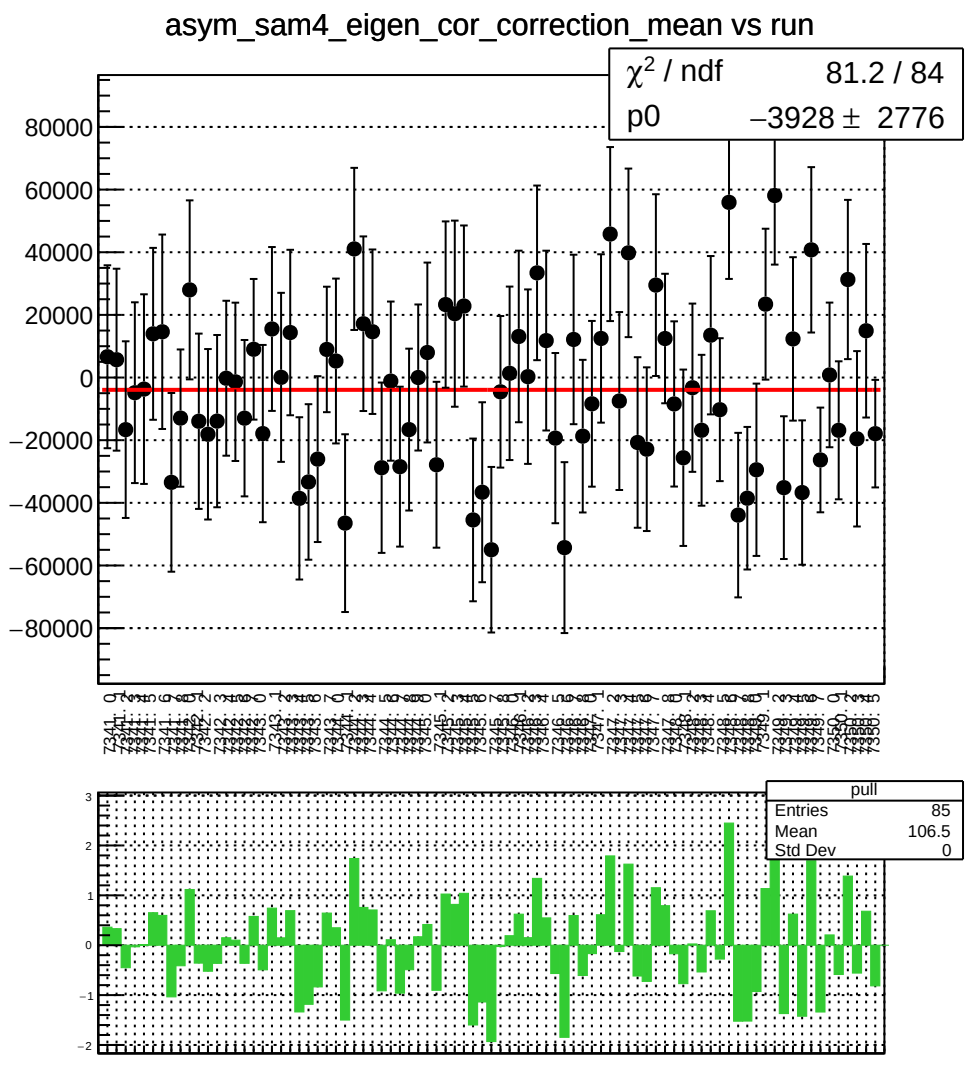

pull1D
Entries 85
Mean 0.01232
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

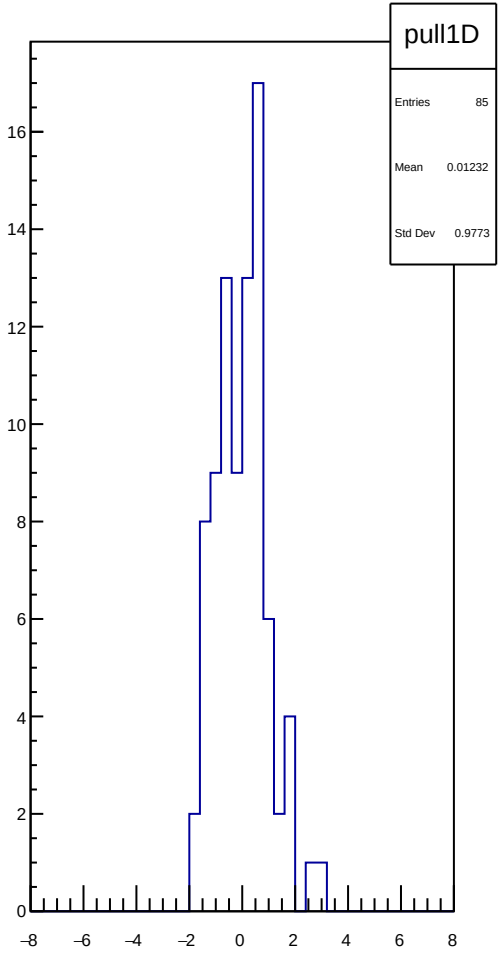

asym_sam4_cor_correction_rms vs run
χ² / ndf 8823 / 84
p0 2489 ± 1.963
3000
2800
2600
2400
2200
2000

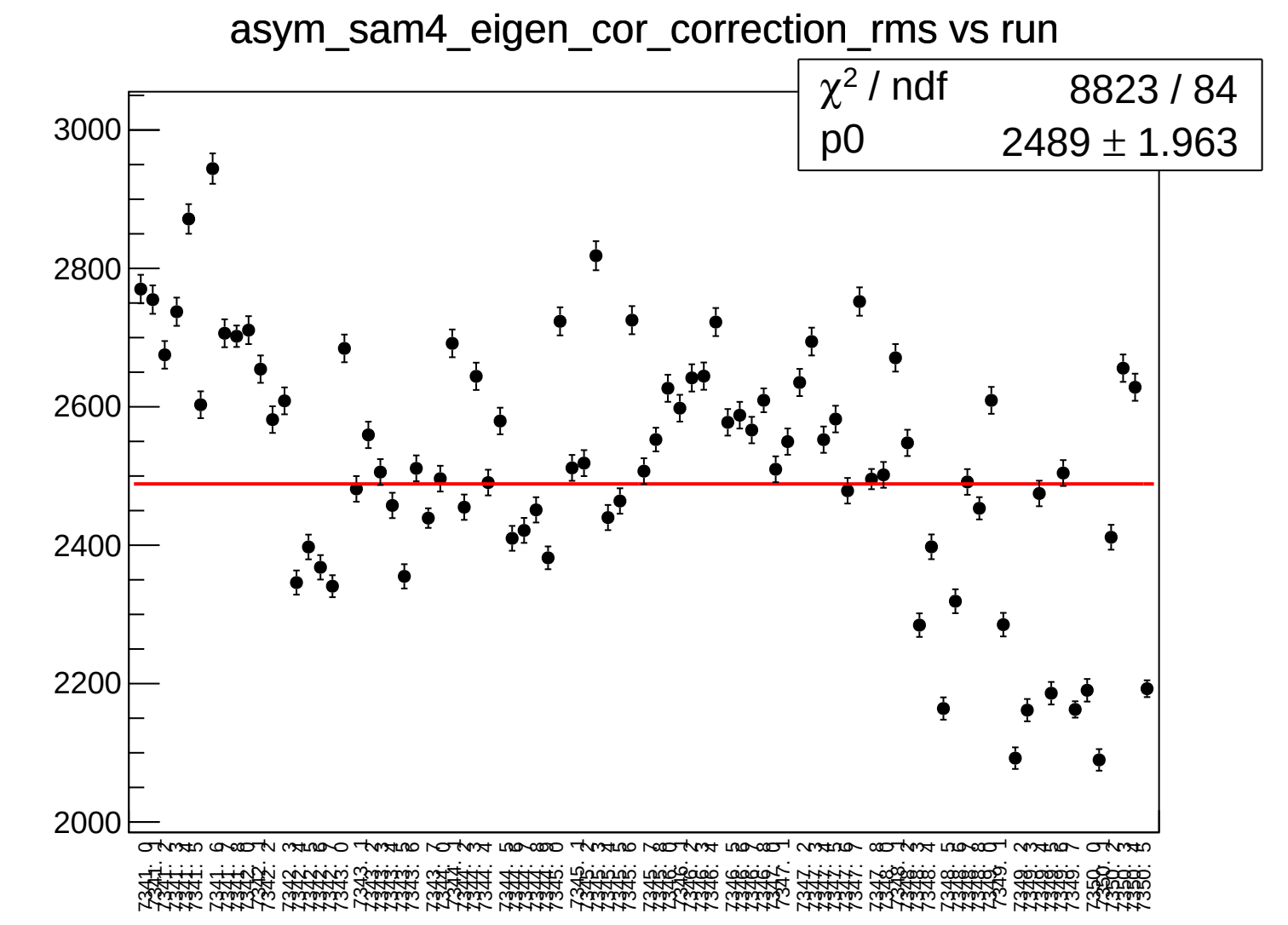

eigen_cor_asym_sam4_mean vs run
χ² / ndf 82.11 / 84
p0 575.5 ± 399
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 572.5
Std Dev 0
2
1
0
−1
−2

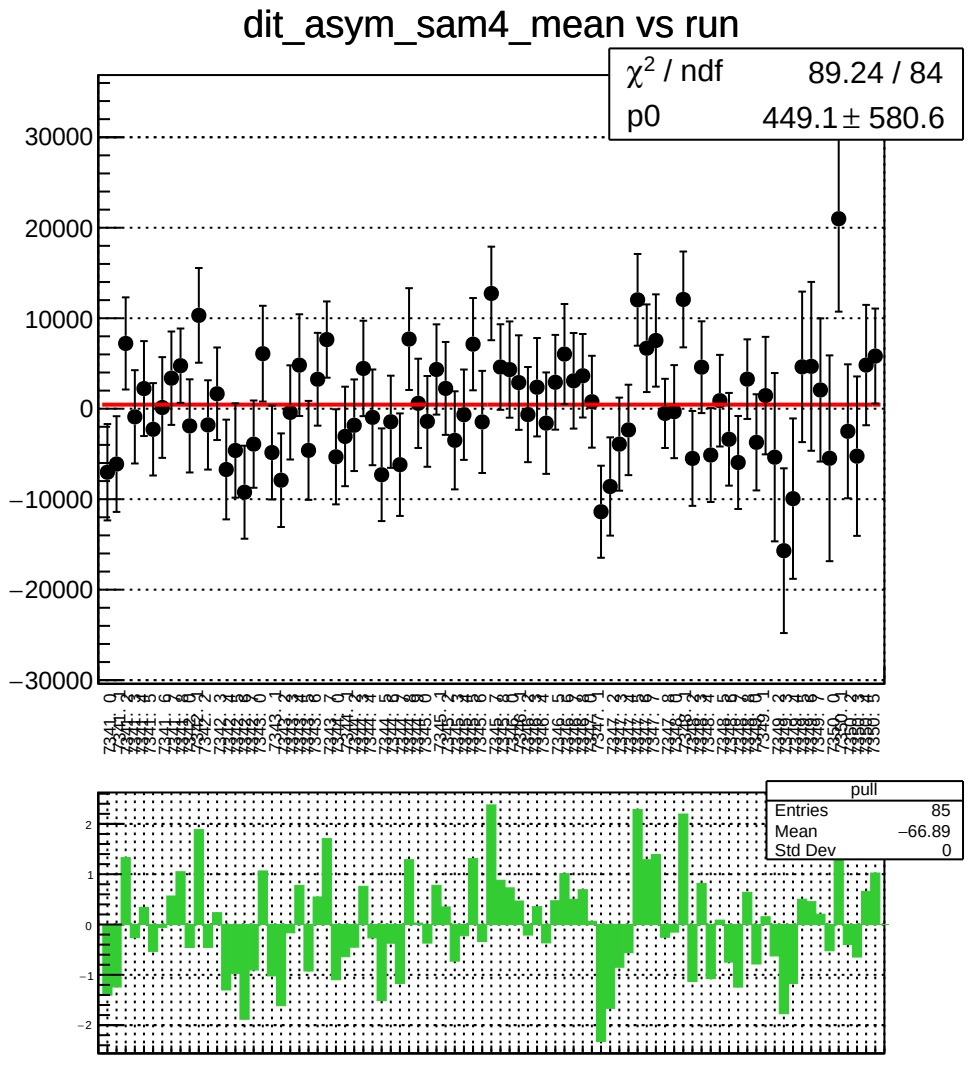

pull1D
Entries 85
Mean 0.003461
Std Dev 0.9829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

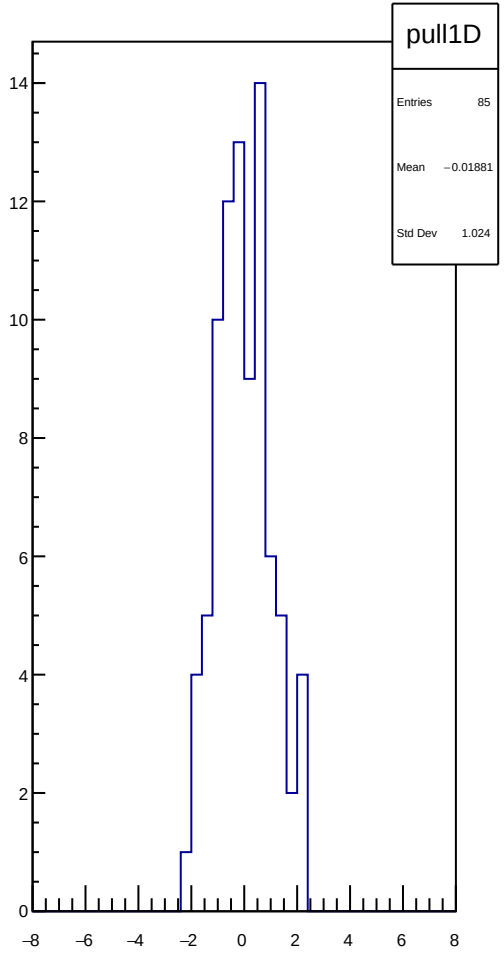

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1314 / 84
p0 358.5 ± 0.2821
390
380
370
360
350
340
330

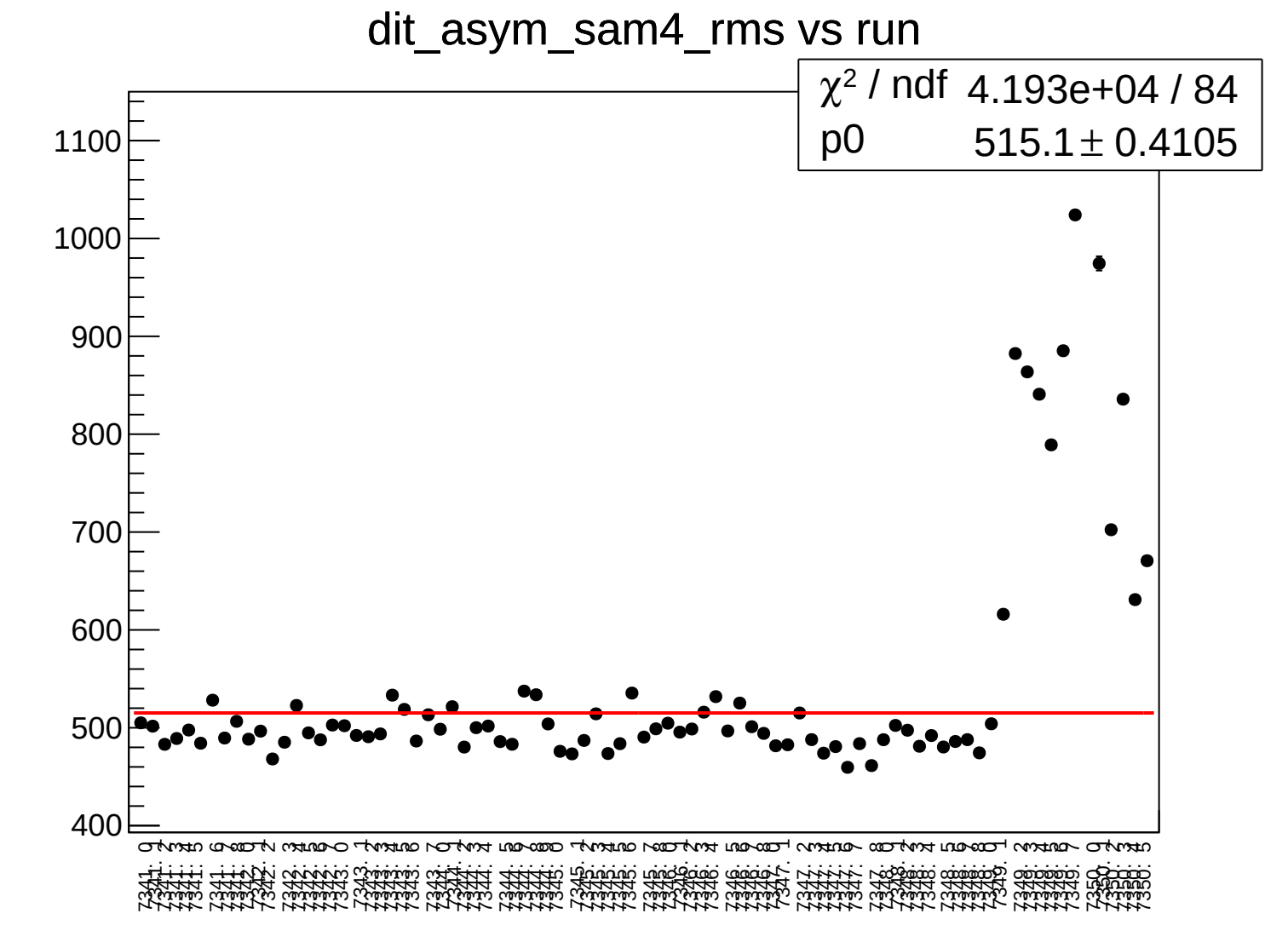

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 81.2 / 84
p0 −3928 ± 2776
pull
Entries 85
Mean 106.5
Std Dev 0

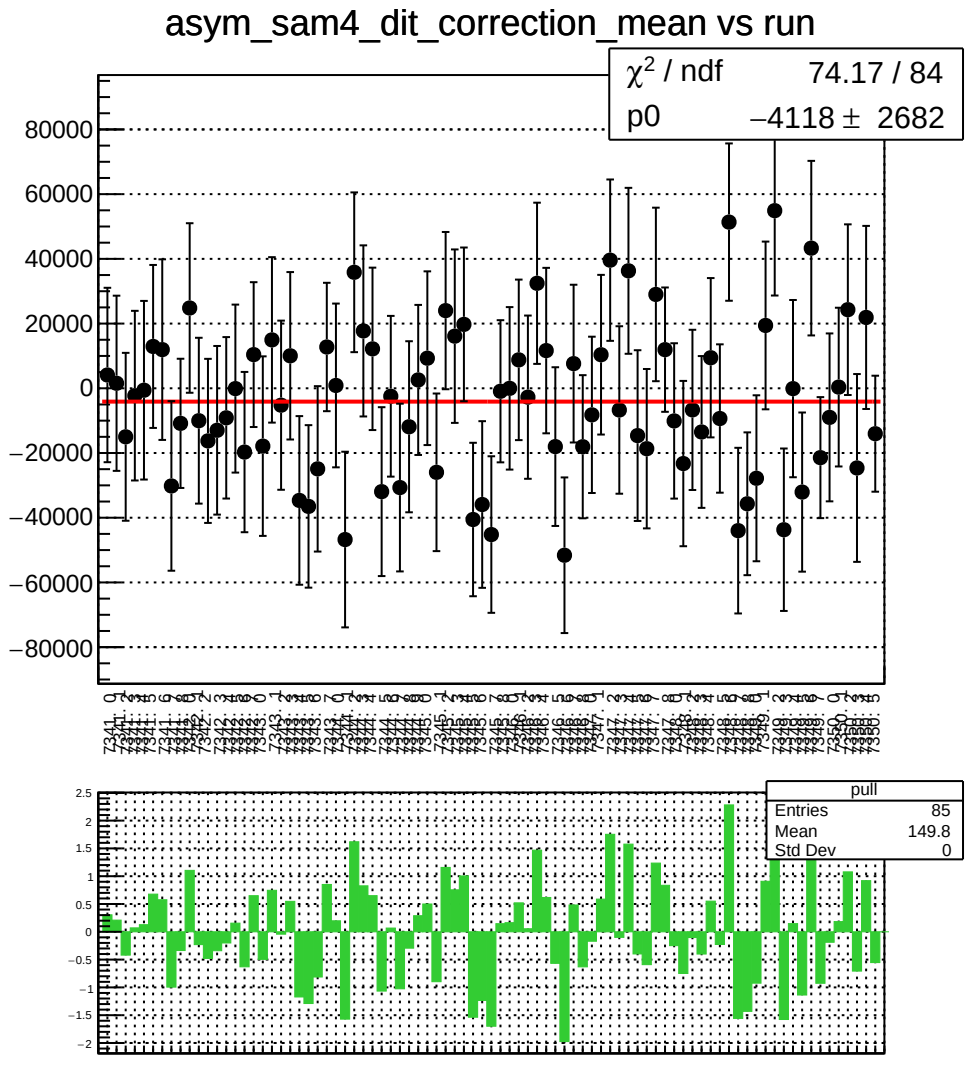

pull1D
Entries 85
Mean 0.01232
Std Dev 0.9773

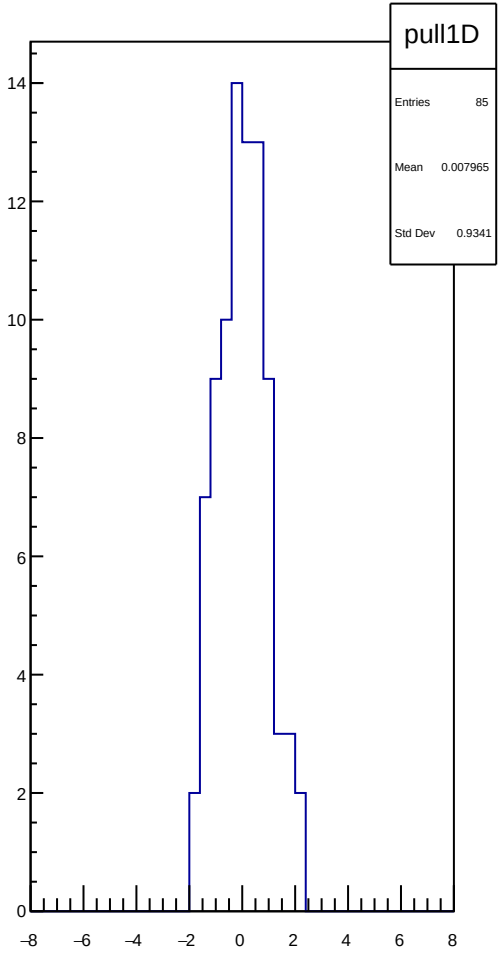

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 8823 / 84
p0 2489 ± 1.963
3000
2800
2600
2400
2200
2000

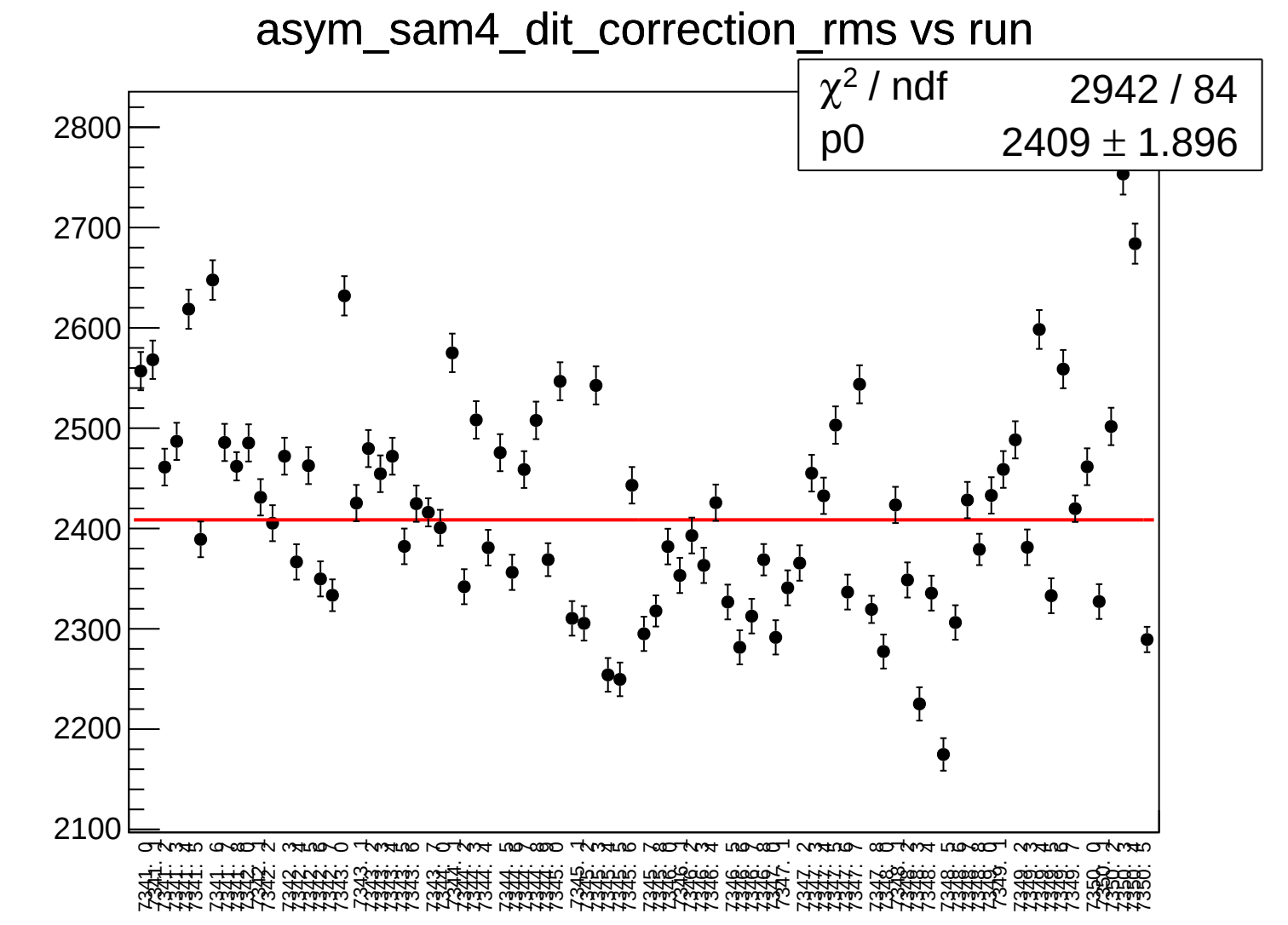

dit_asym_sam4_mean vs run
χ² / ndf 89.24 / 84
p0 449.1 ± 580.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −66.89
Std Dev 0
2
1
0
−1
−2

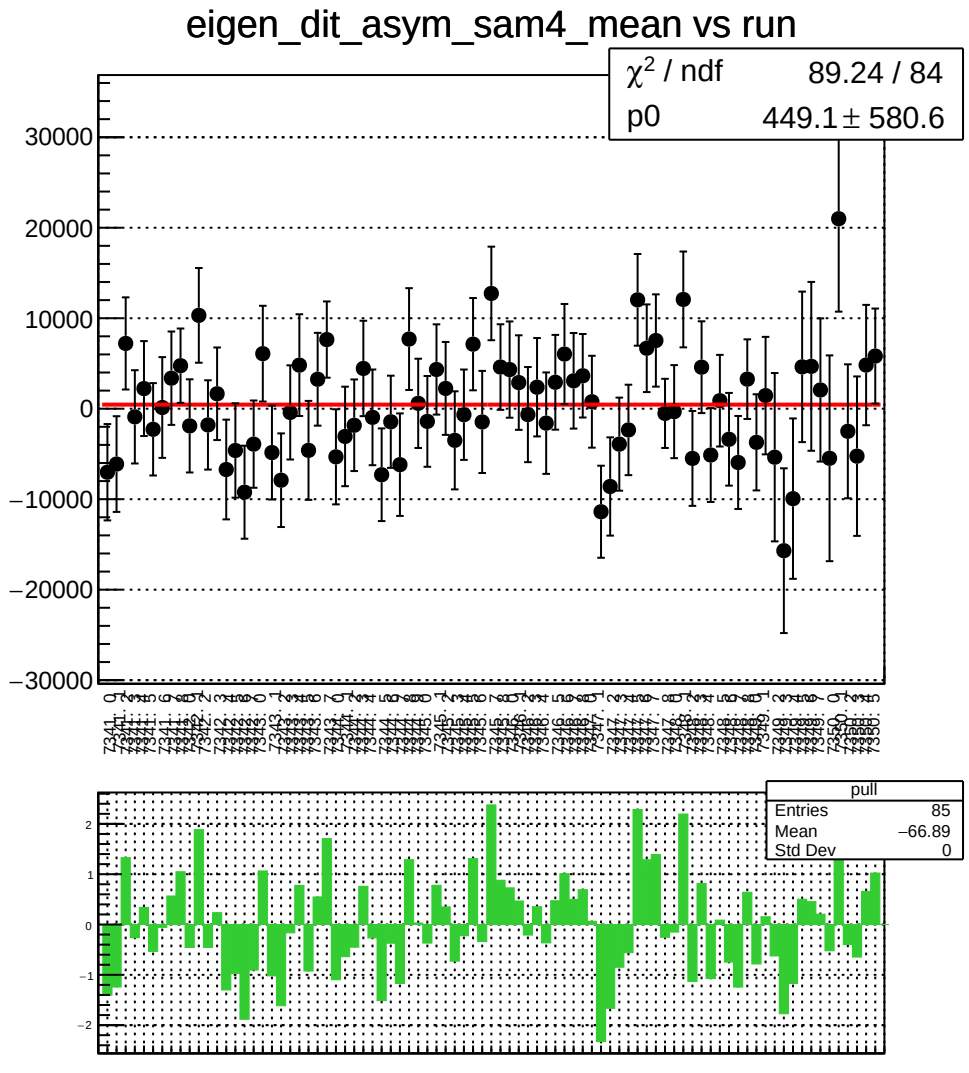

pull1D
Entries 85
Mean −0.01881
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

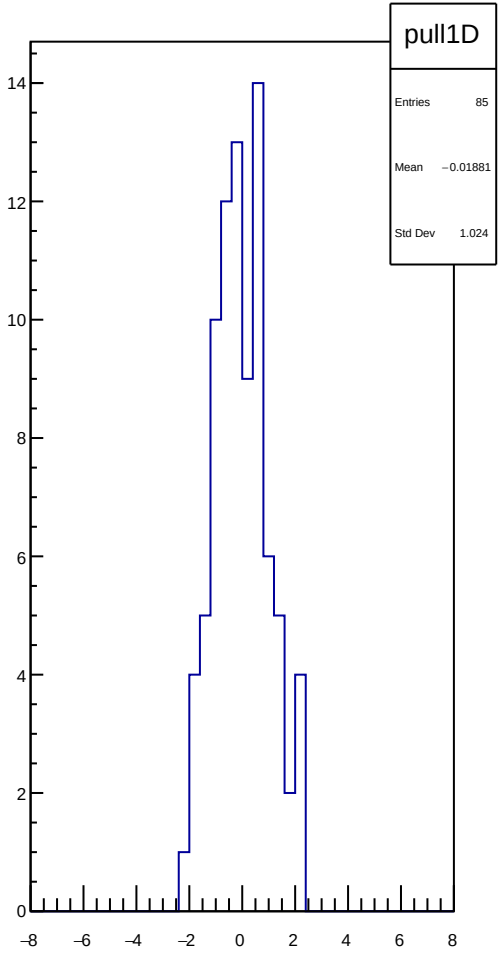

dit_asym_sam4_rms vs run
χ² / ndf 4.193e+04 / 84
p0 515.1 ± 0.4105
1100
1000
900
800
700
600
500
400

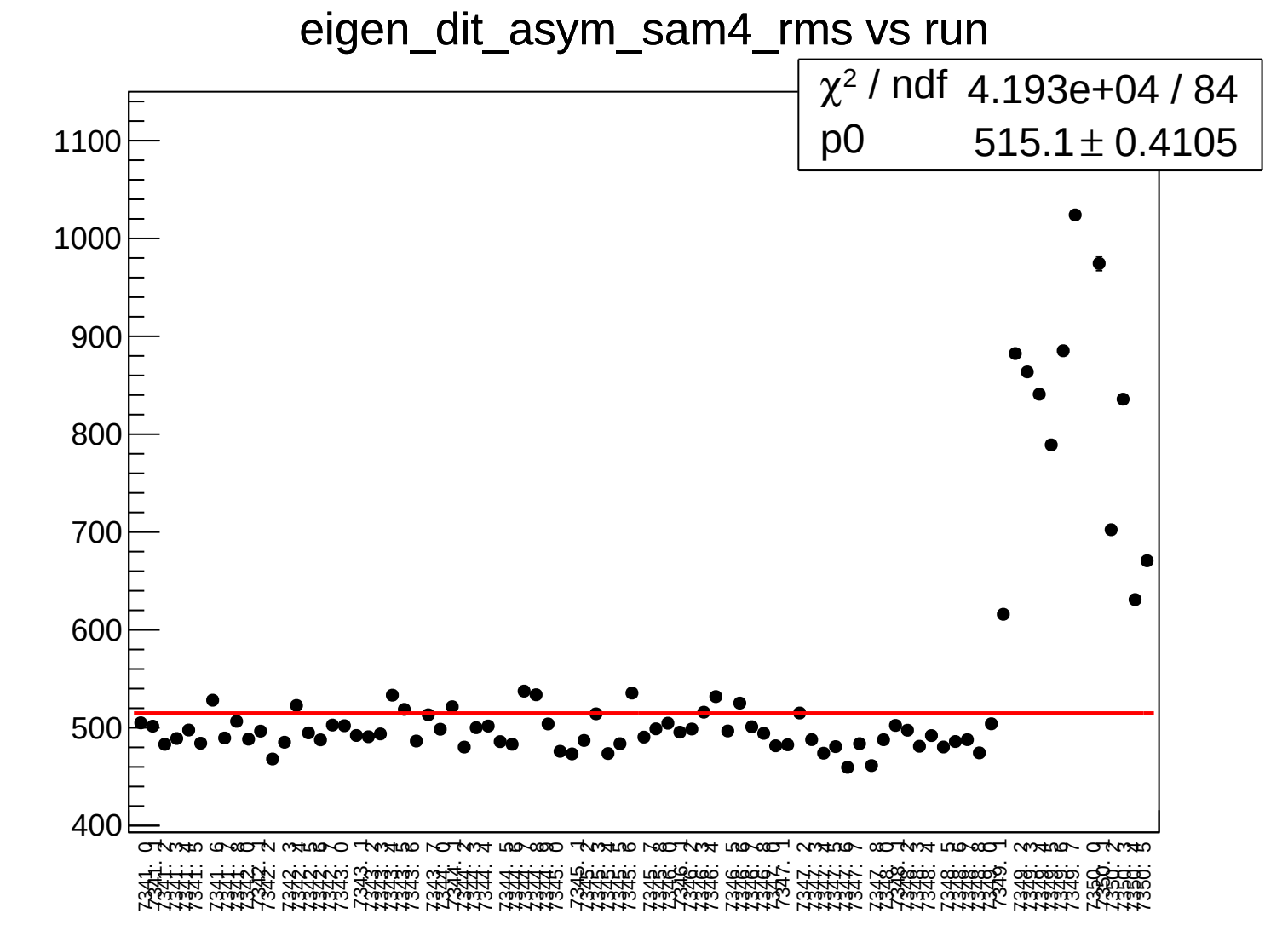

asym_sam4_dit_correction_mean vs run
χ² / ndf 74.17 / 84
p0 −4118 ± 2682
pull
Entries 85
Mean 149.8
Std Dev 0

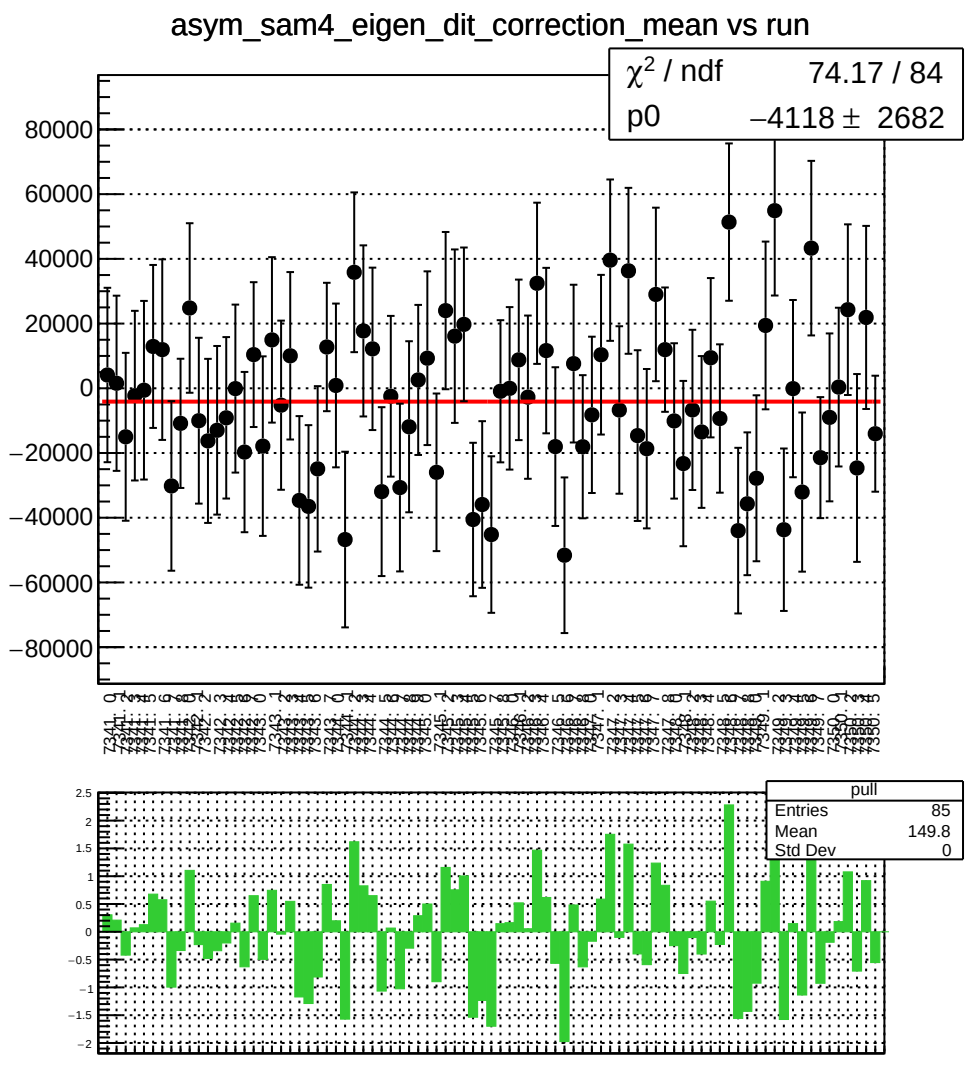

pull1D
Entries 85
Mean 0.007965
Std Dev 0.9341

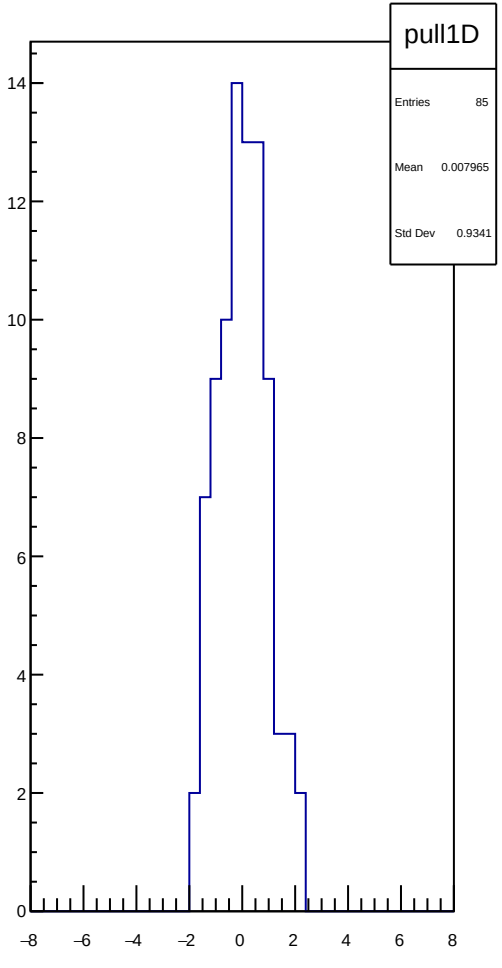

asym_sam4_dit_correction_rms vs run
χ² / ndf 2942 / 84
p0 2409 ± 1.896
2800
2700
2600
2500
2400
2300
2200
2100

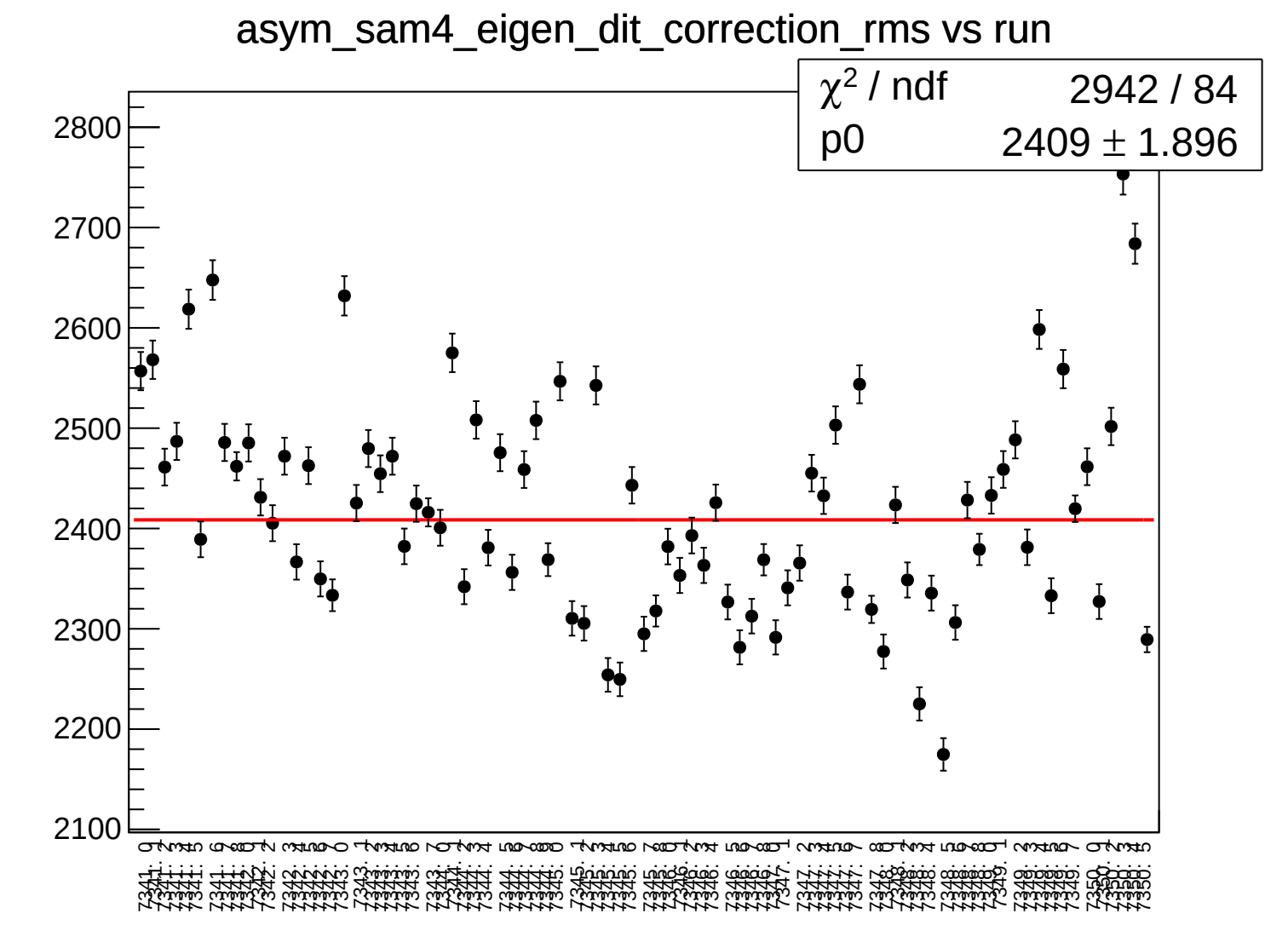

eigen_dit_asym_sam4_mean vs run
χ² / ndf 89.24 / 84
p0 449.1 ± 580.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean −66.89
Std Dev 0
2
1
0
−1
−2

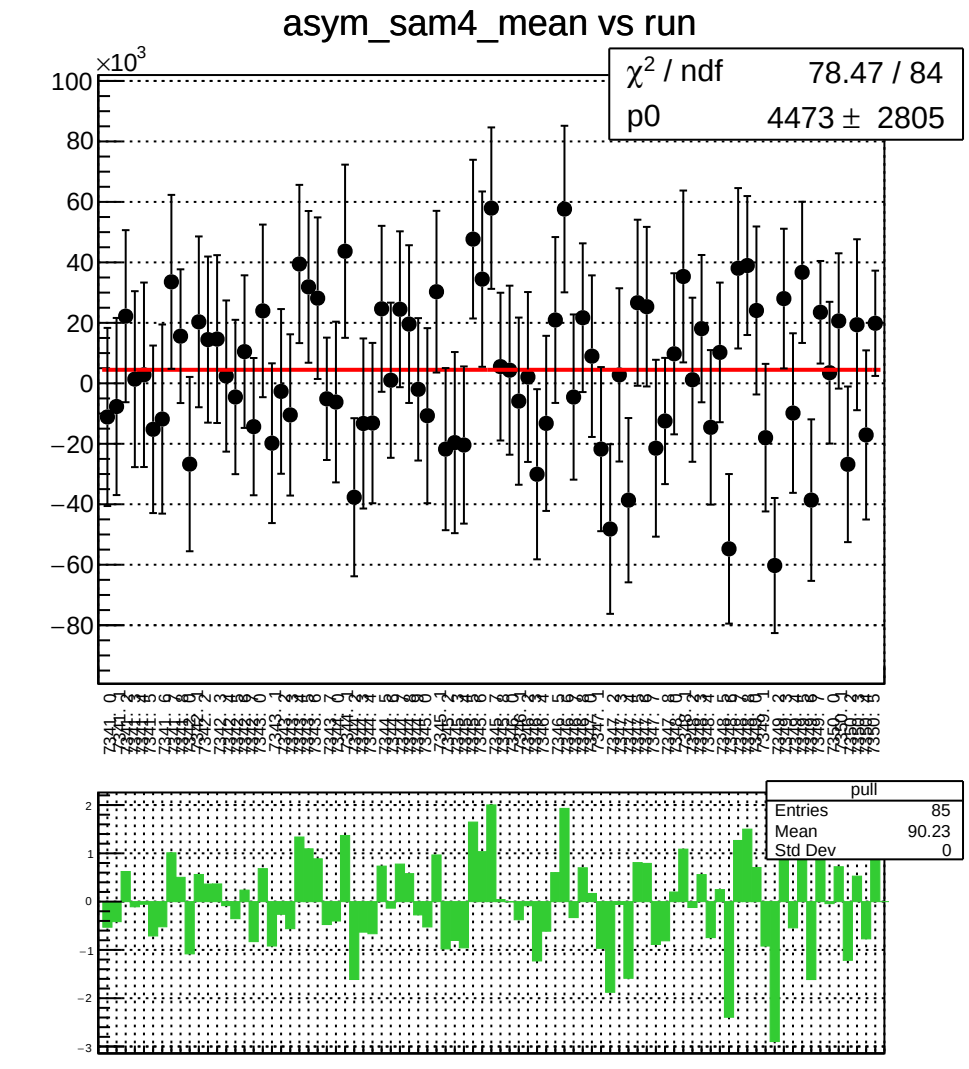

pull1D
Entries 85
Mean −0.01881
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

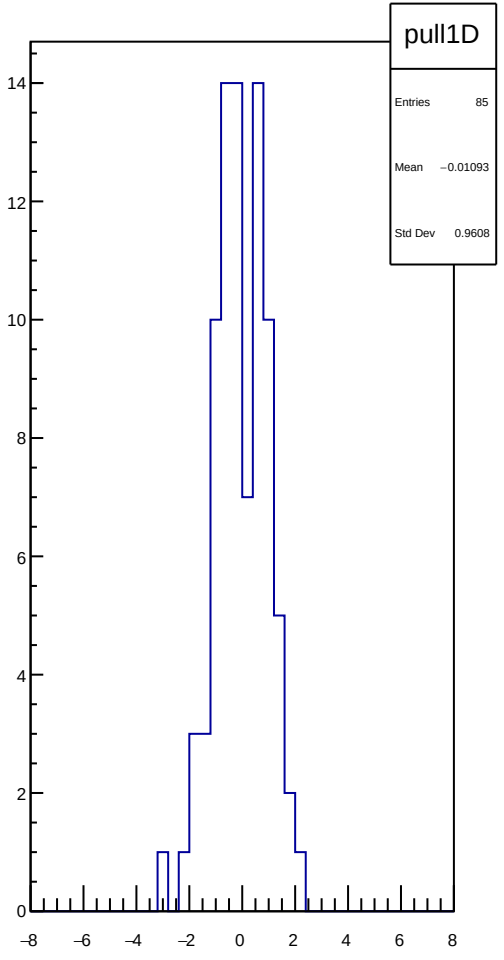

eigen_dit_asym_sam4_rms vs run
χ² / ndf 4.193e+04 / 84
p0 515.1 ± 0.4105
1100
1000
900
800
700
600
500
400

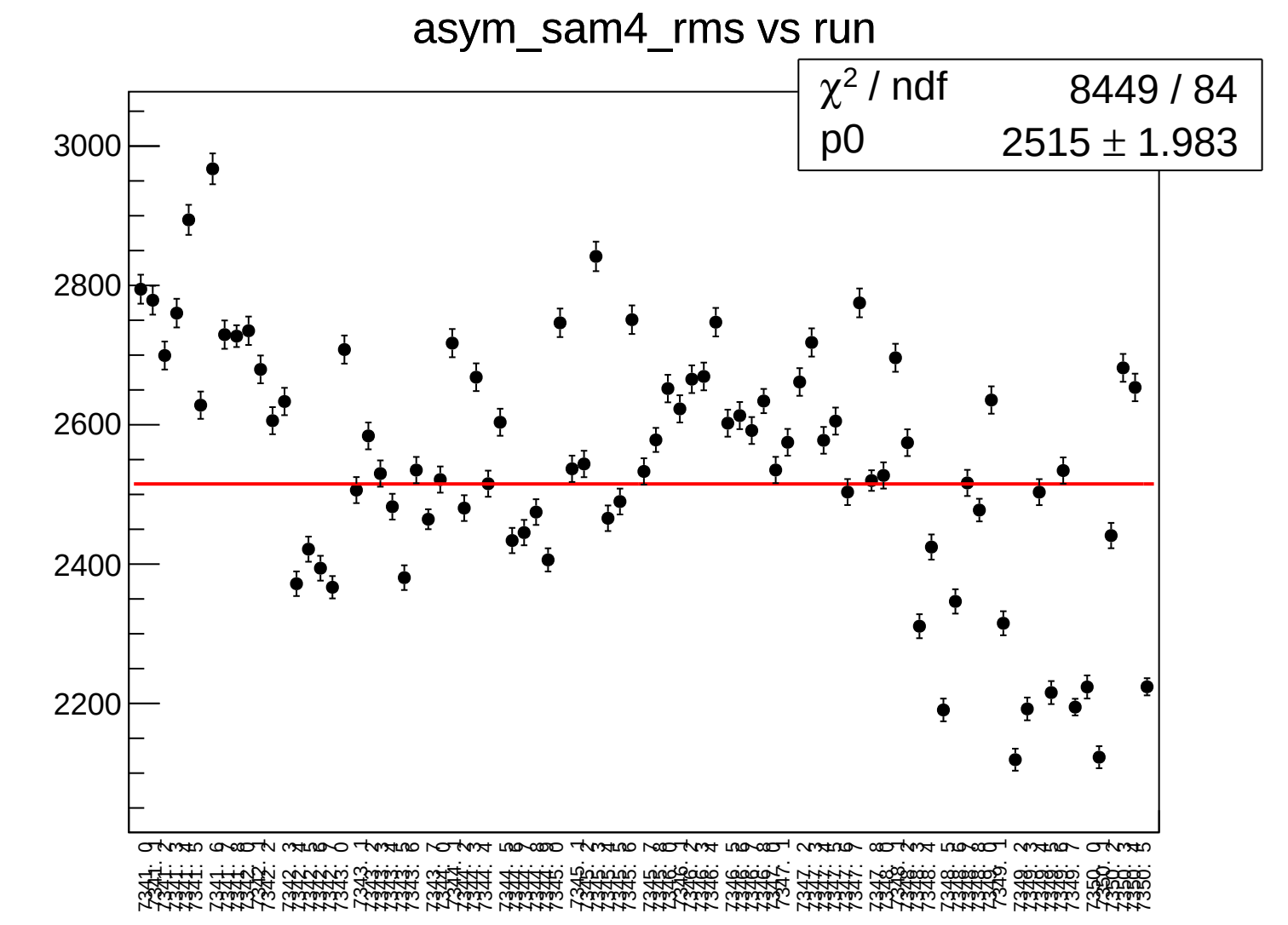

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 74.17 / 84
p0 −4118 ± 2682
pull
Entries 85
Mean 149.8
Std Dev 0

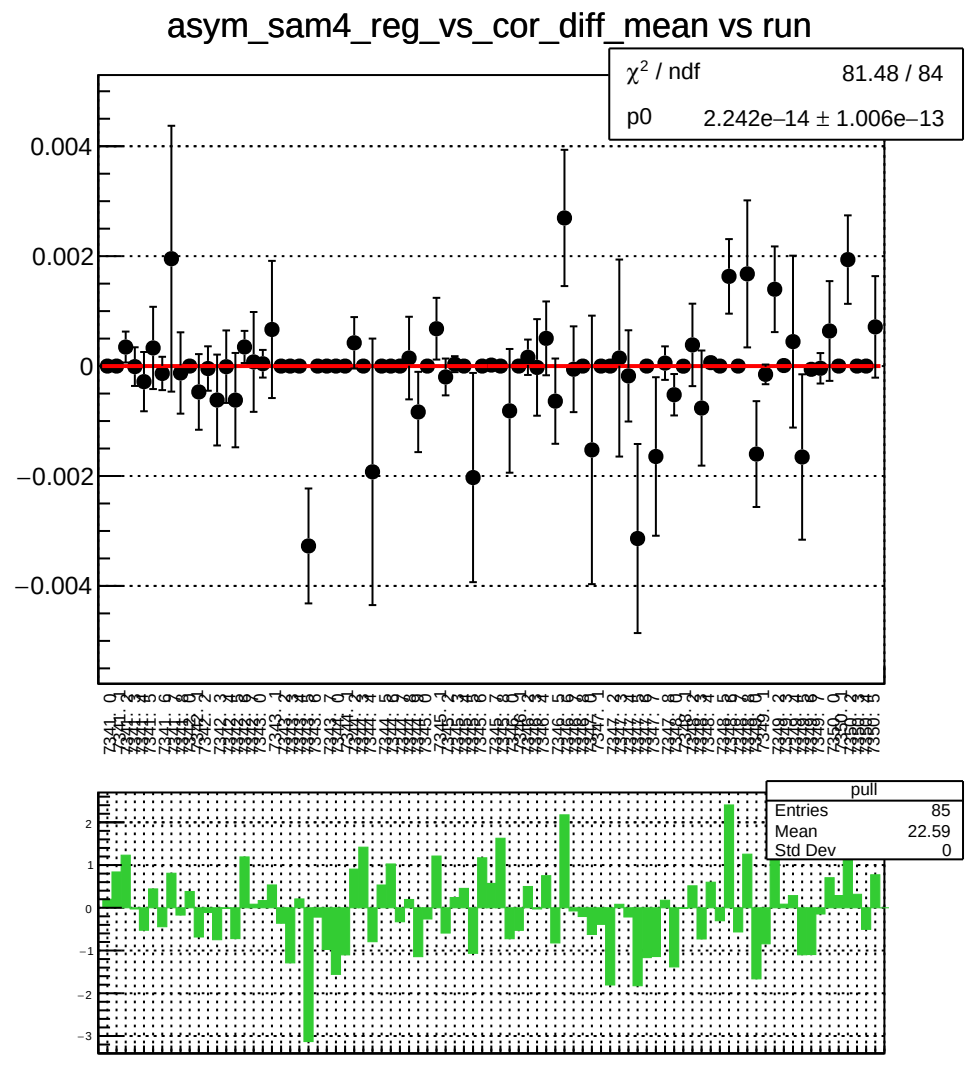

pull1D
Entries 85
Mean 0.007965
Std Dev 0.9341

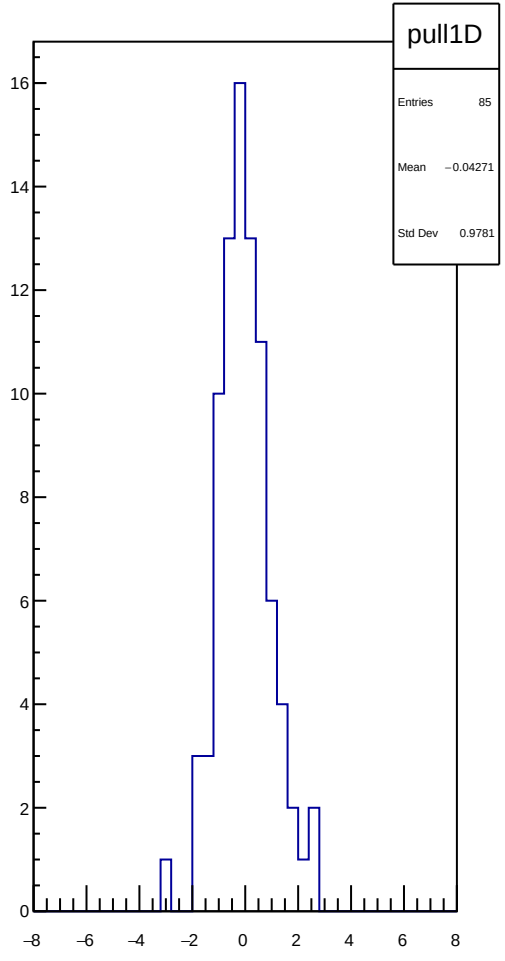

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2942 / 84
p0 2409 ± 1.896
2800
2700
2600
2500
2400
2300
2200
2100

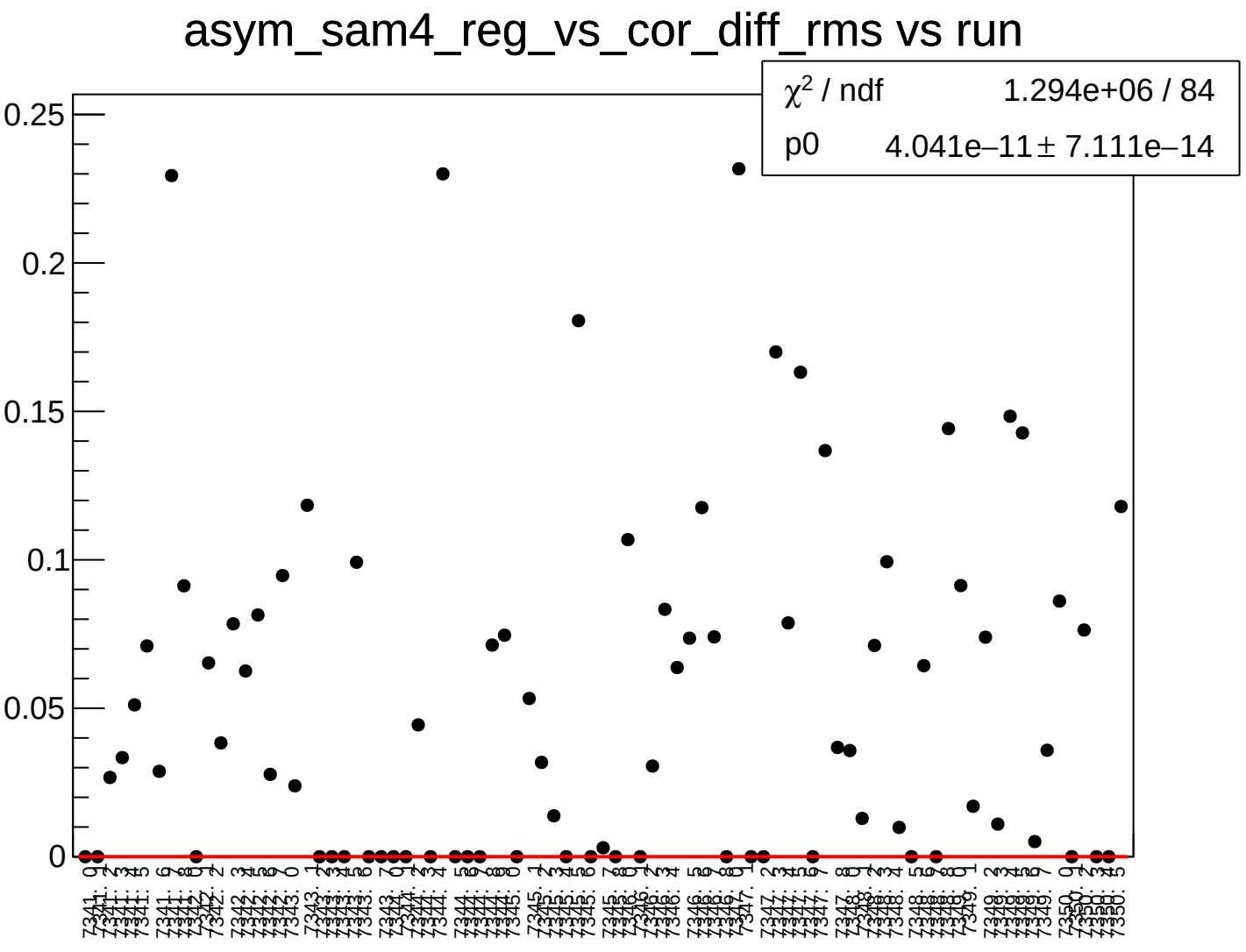

asym_sam4_mean vs run
×10^3
χ^2 / ndf 78.47 / 84
p0 4473 ± 2805
pull
Entries 85
Mean 90.23
Std Dev 0

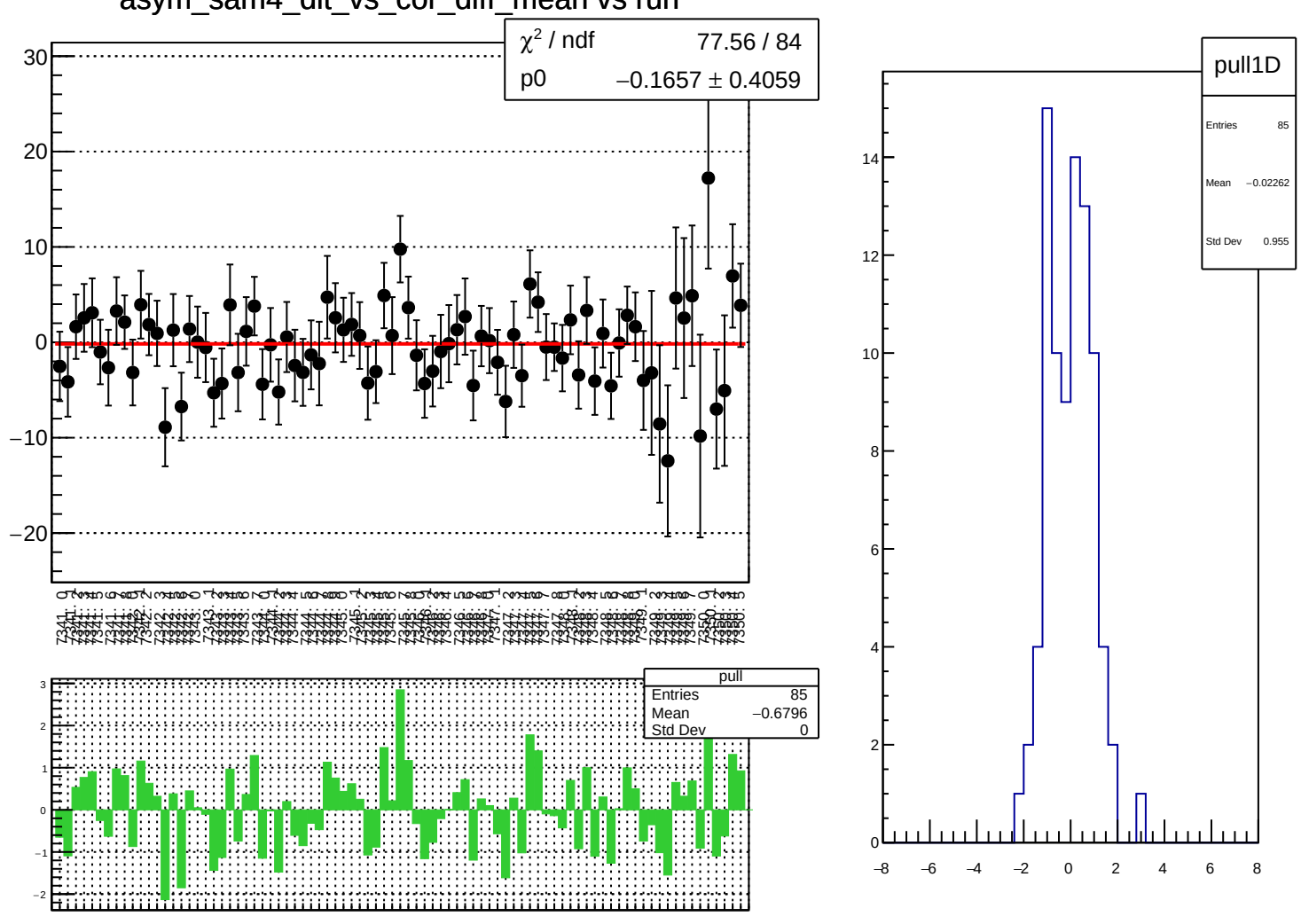

pull1D
Entries 85
Mean −0.01093
Std Dev 0.9608

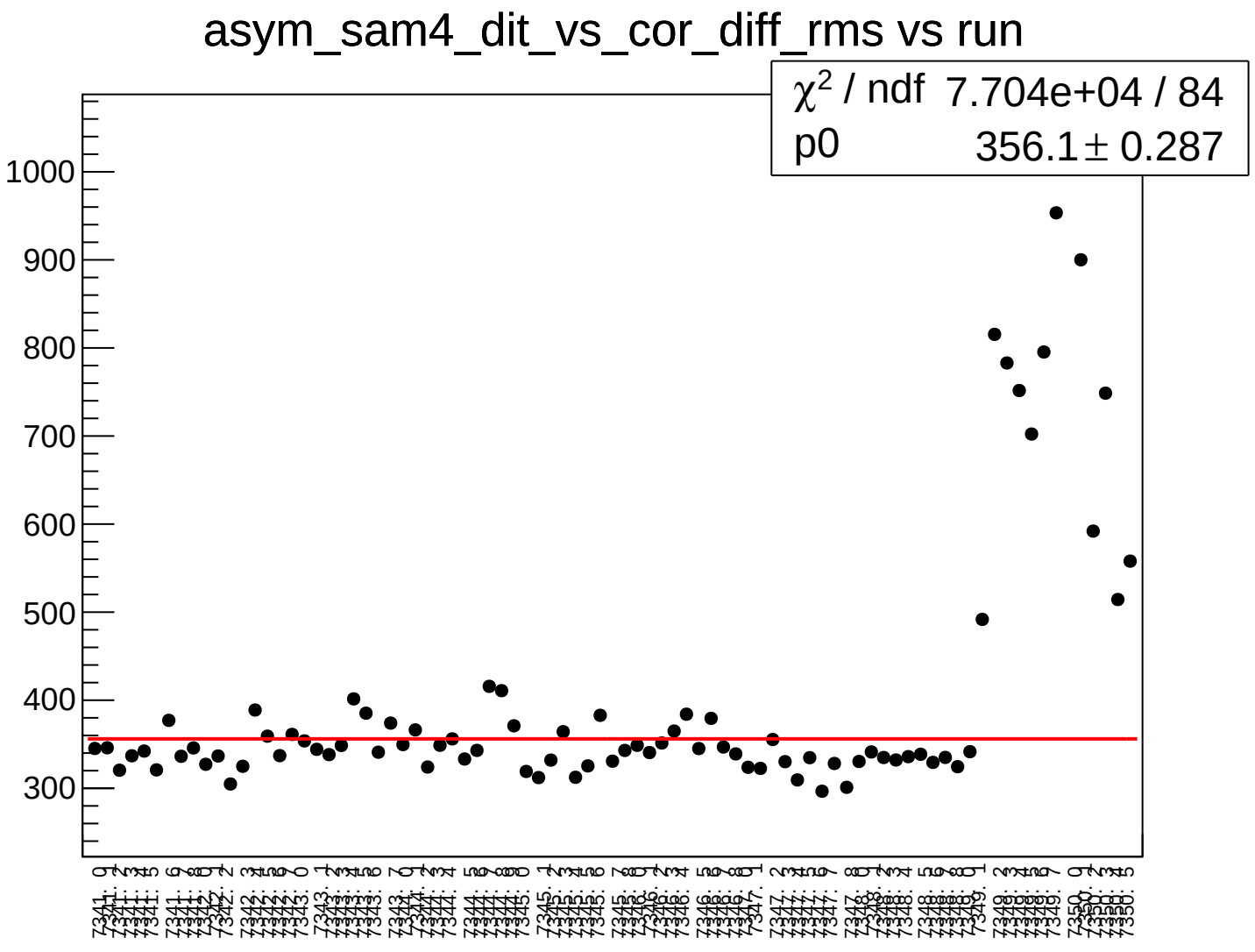

asym_sam4_rms vs run
χ² / ndf 8449 / 84
p0 2515 ± 1.983
3000
2800
2600
2400
2200

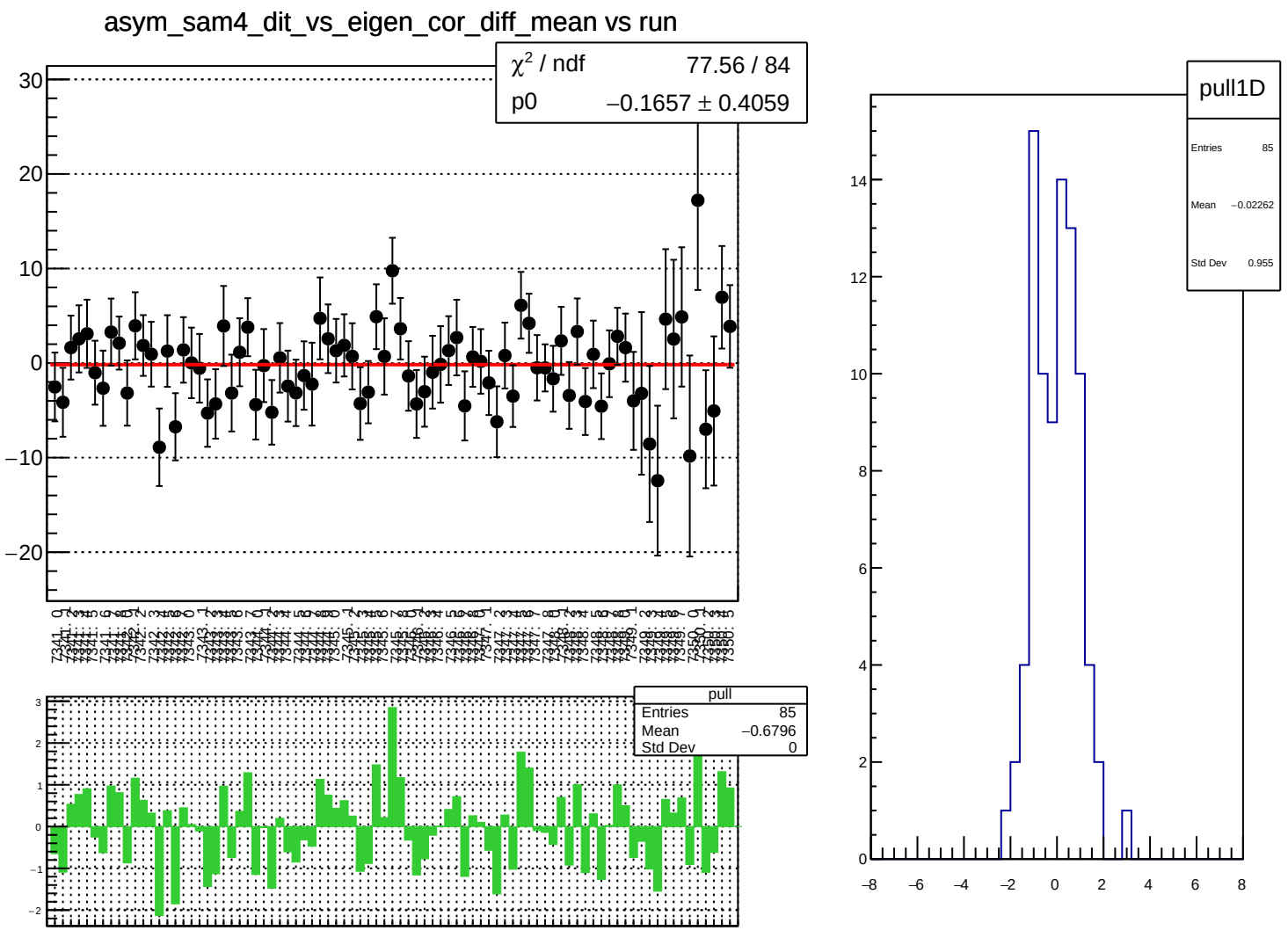

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 81.48 / 84
p0 2.242e−14 ± 1.006e−13
0.004
0.002
0
−0.002
−0.004
pull
Entries 85
Mean 22.59
Std Dev 0
2
1
0
−1
−2
−3

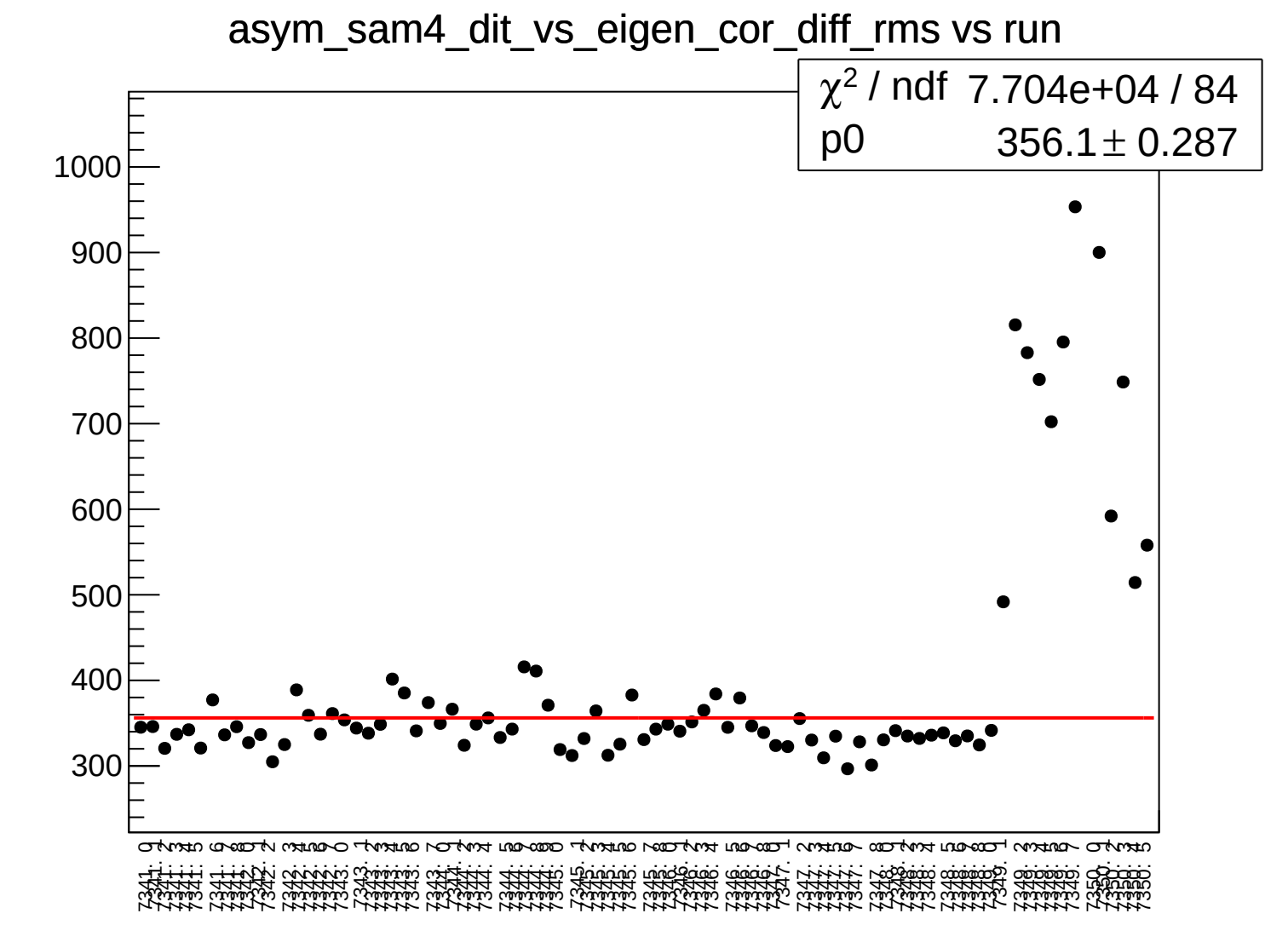

pull1D
Entries 85
Mean −0.04271
Std Dev 0.9781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

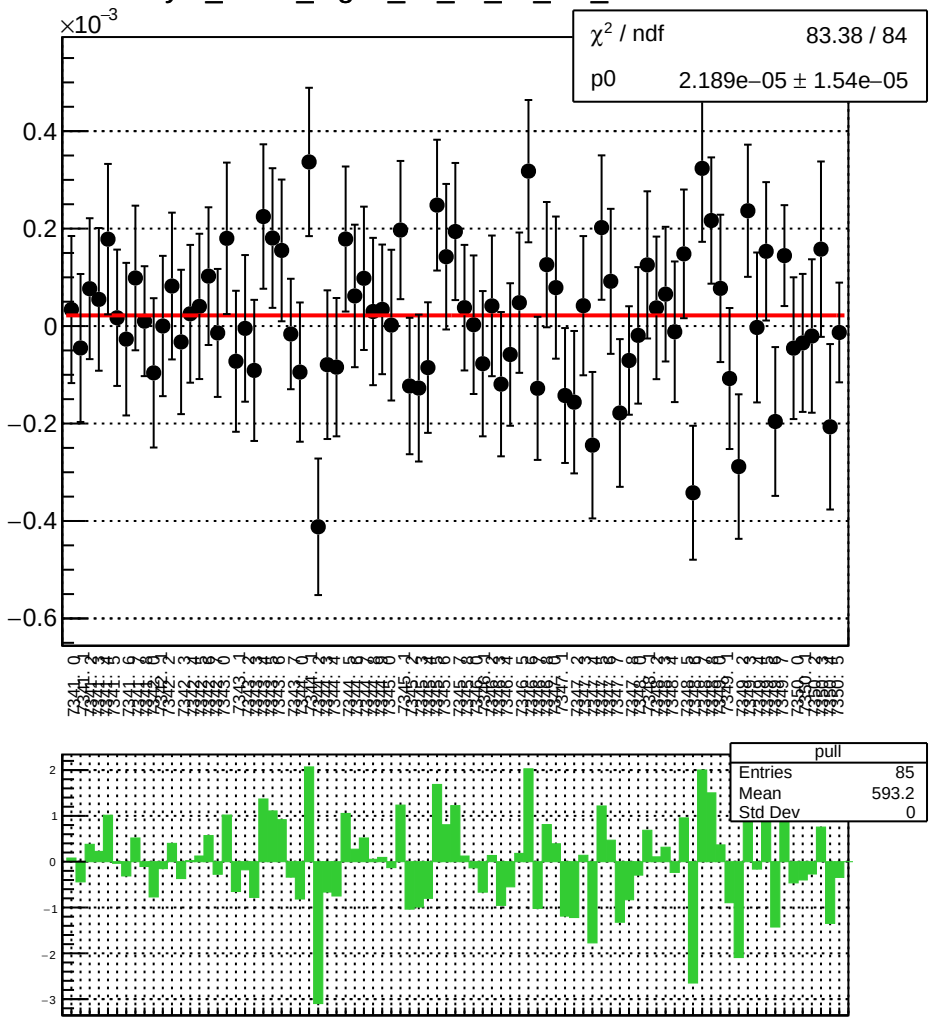

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.294e+06 / 84
p0 4.041e−11 ± 7.111e−14
0.25
0.2
0.15
0.1
0.05
0

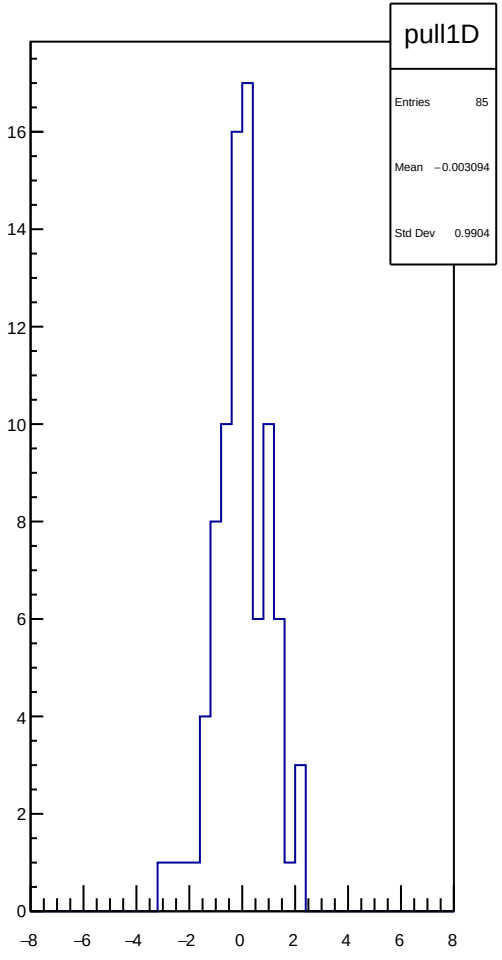

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 77.56 / 84
p0 −0.1657 ± 0.4059
pull
Entries 85
Mean −0.6796
Std Dev 0
pull1D
Entries 85
Mean −0.02262
Std Dev 0.955

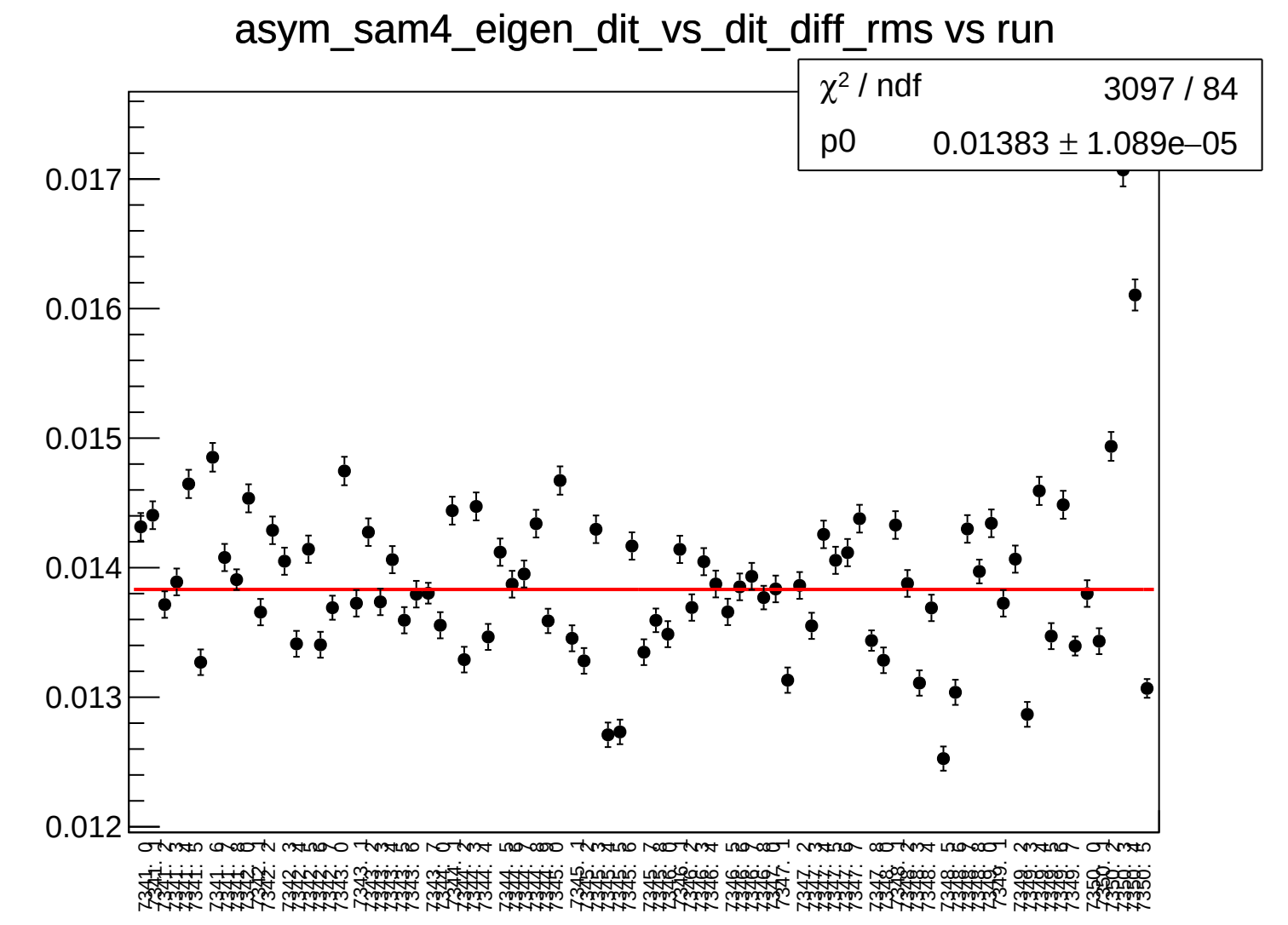

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.704e+04 / 84
p0 356.1 ± 0.287
1000
900
800
700
600
500
400
300

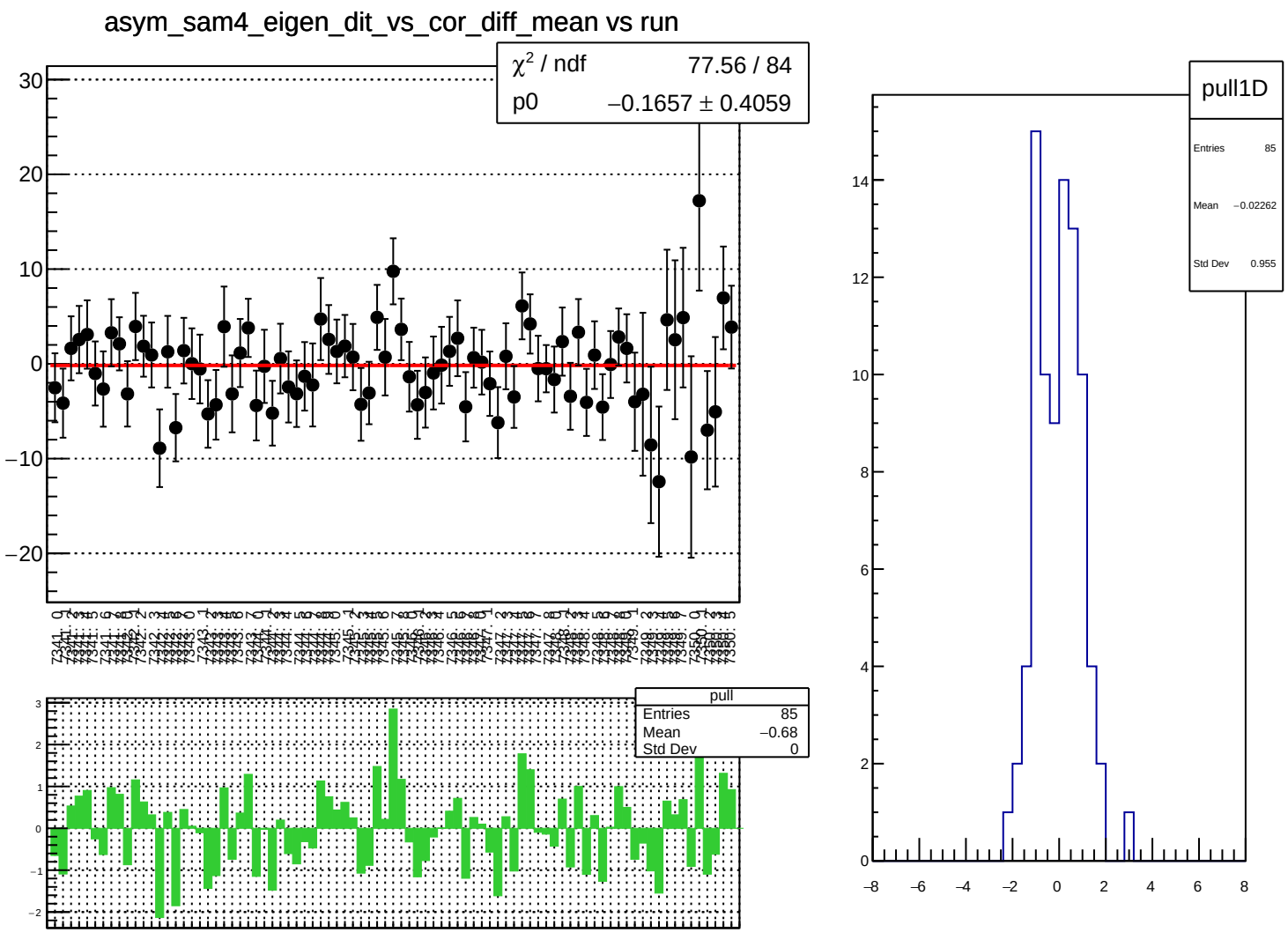

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.56 / 84
p0 −0.1657 ± 0.4059
pull
Entries 85
Mean −0.6796
Std Dev 0
pull1D
Entries 85
Mean −0.02262
Std Dev 0.955

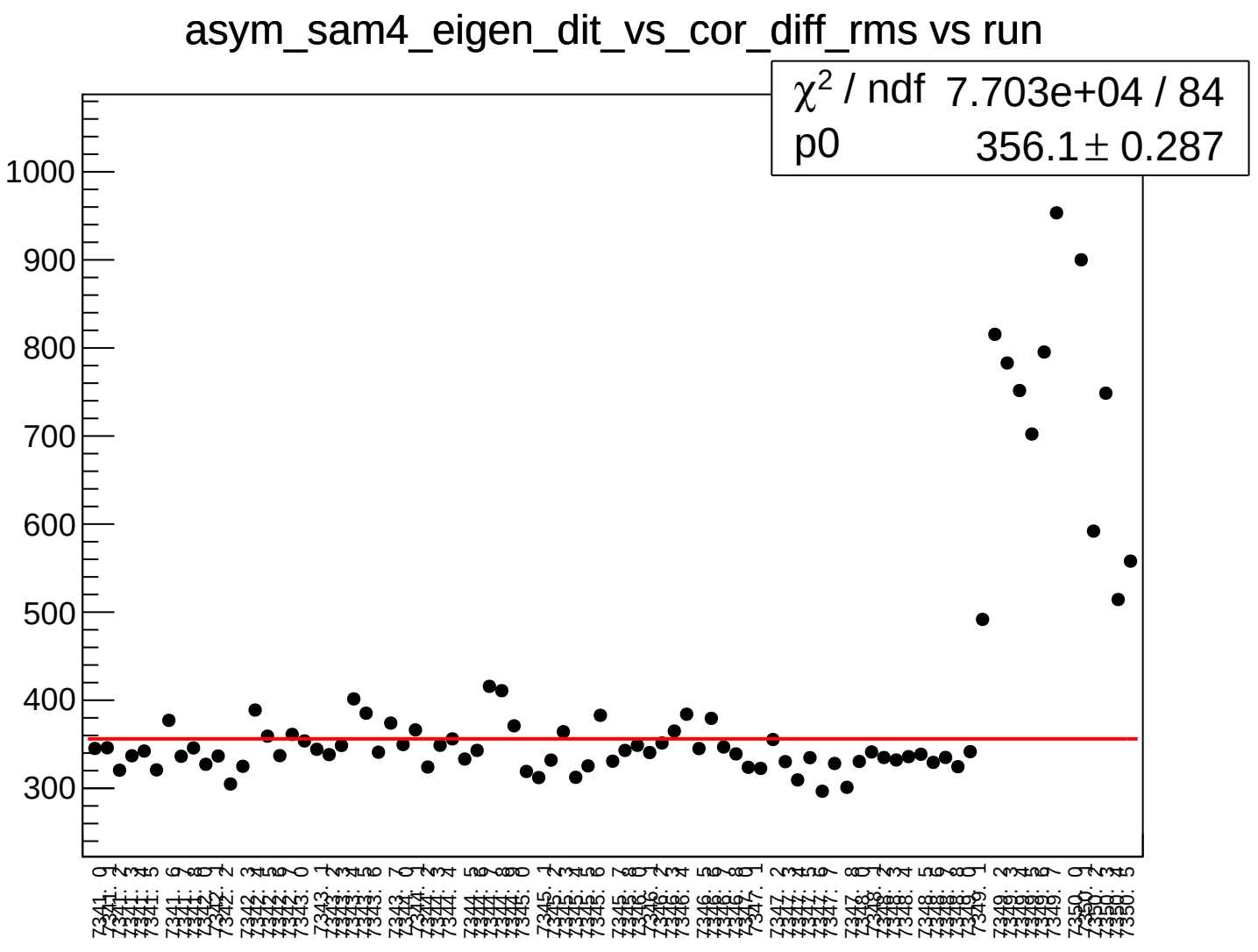

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.704e+04 / 84
p0 356.1 ± 0.287
1000
900
800
700
600
500
400
300

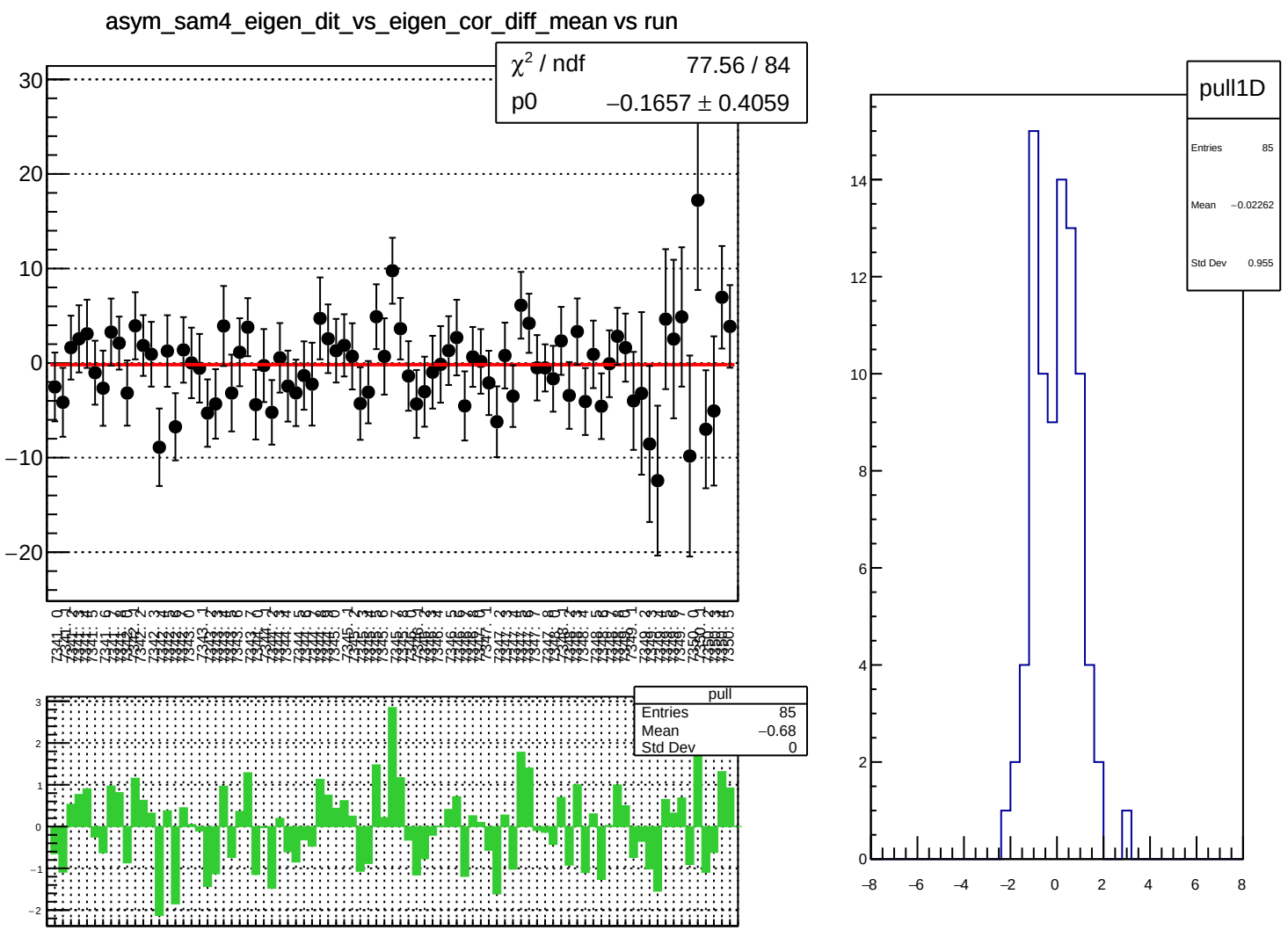

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.38 / 84
p0 2.189e−05 ± 1.54e−05
pull
Entries 85
Mean 593.2
Std Dev 0

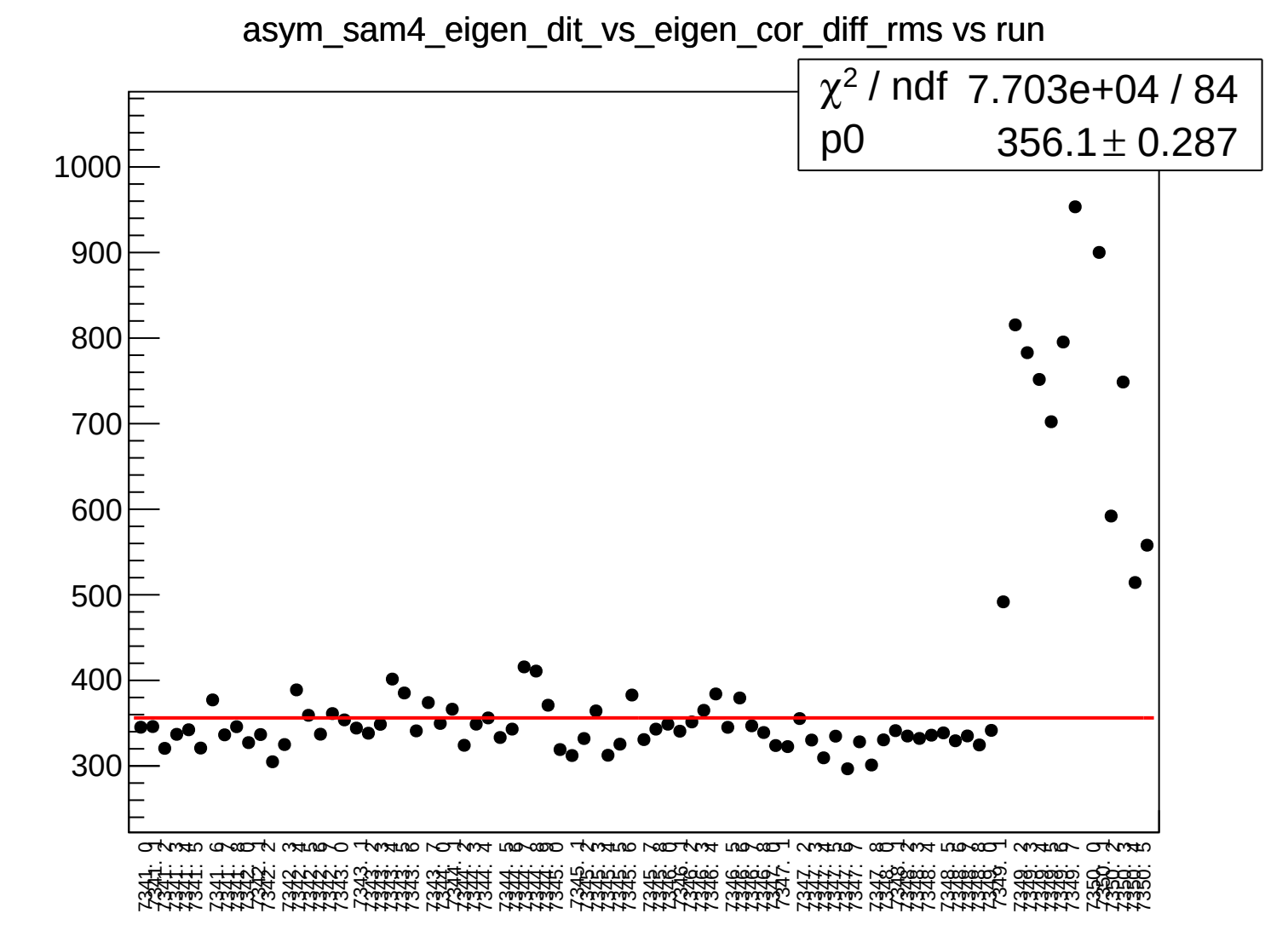

pull1D
Entries 85
Mean −0.003094
Std Dev 0.9904

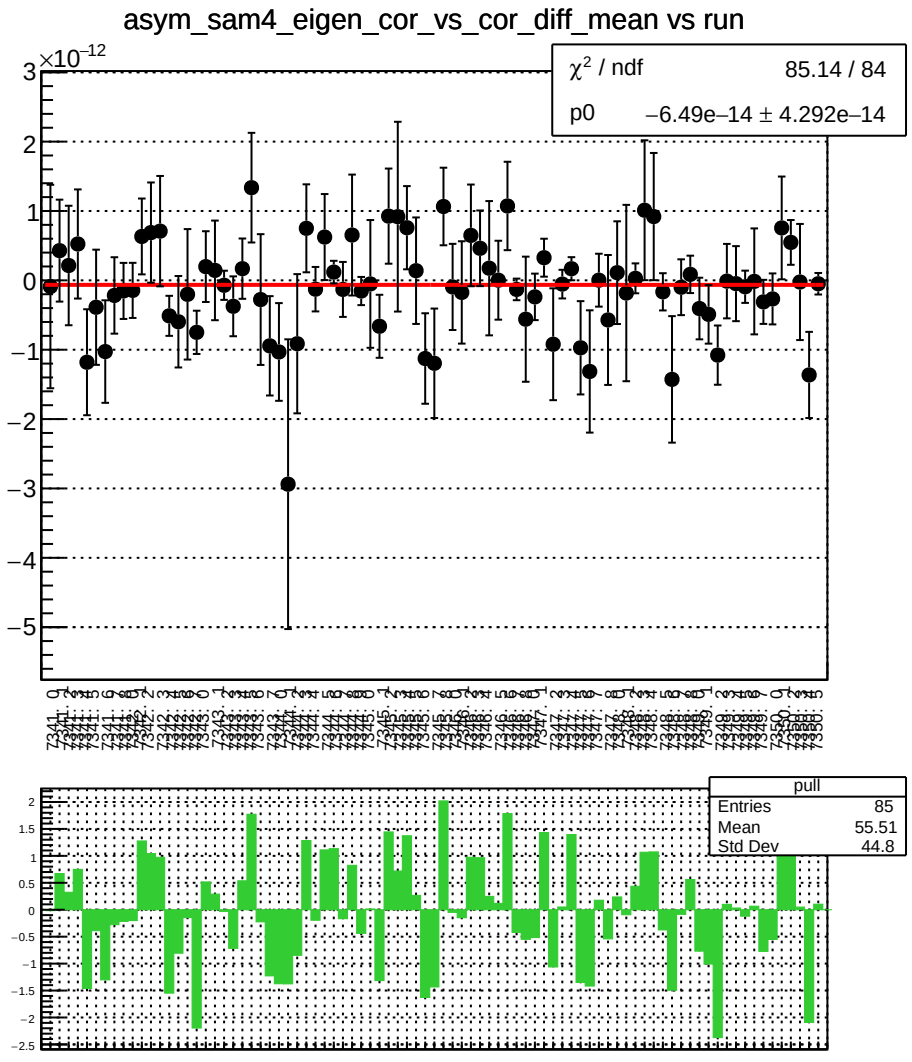

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3097 / 84
p0 0.01383 ± 1.089e−05
0.017
0.016
0.015
0.014
0.013
0.012

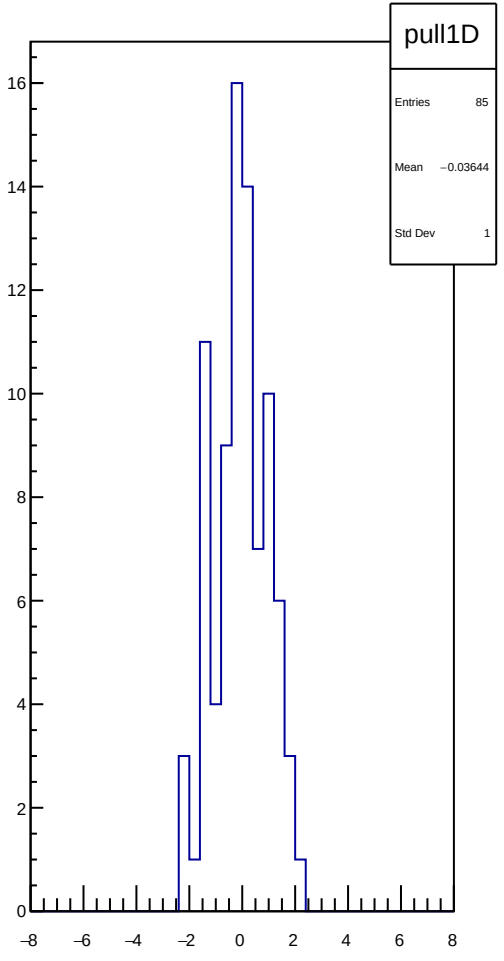

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.56 / 84
p0 −0.1657 ± 0.4059
pull
Entries 85
Mean −0.68
Std Dev 0
pull1D
Entries 85
Mean −0.02262
Std Dev 0.955

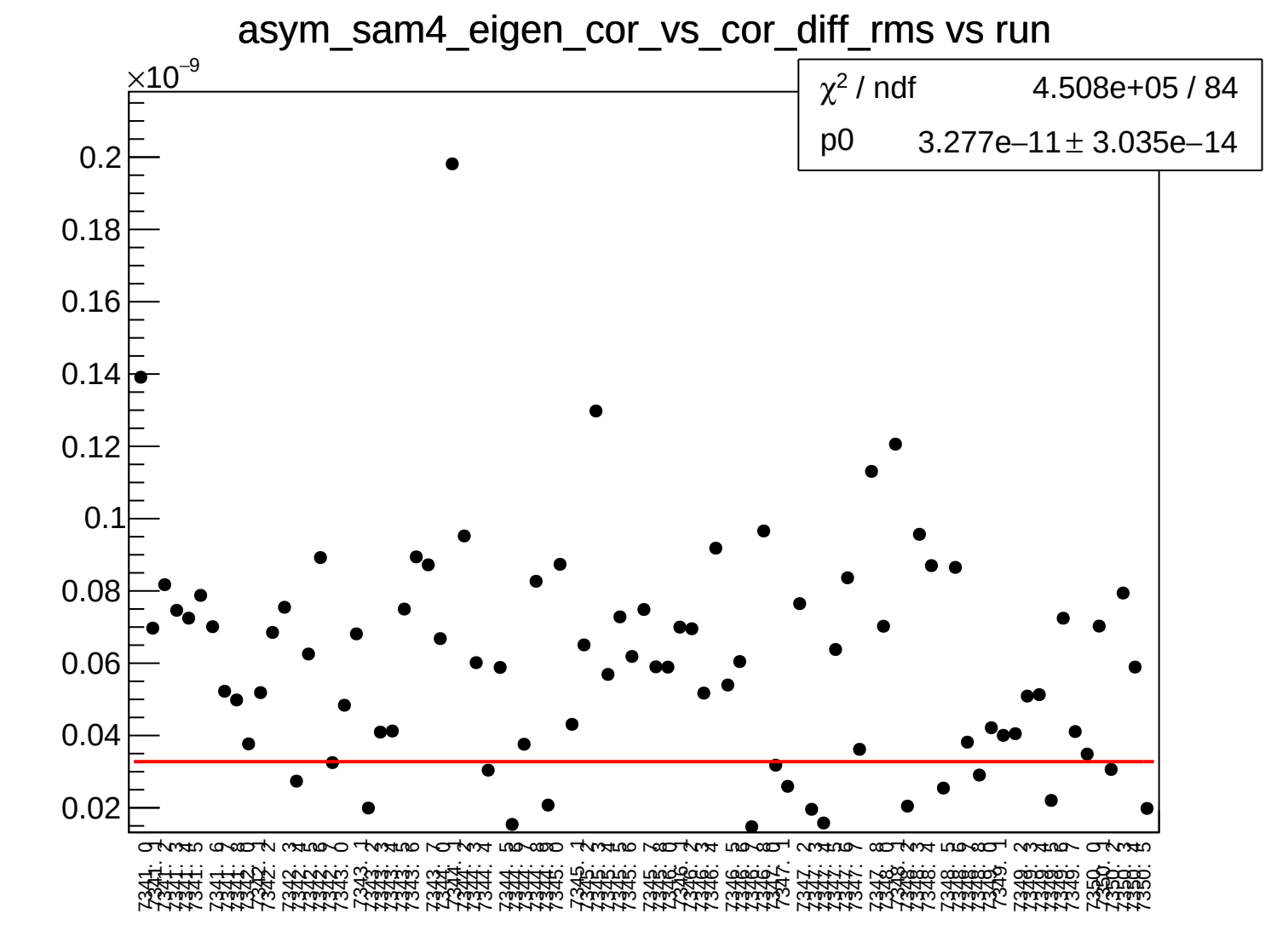

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.703e+04 / 84
p0 356.1 ± 0.287
1000
900
800
700
600
500
400
300

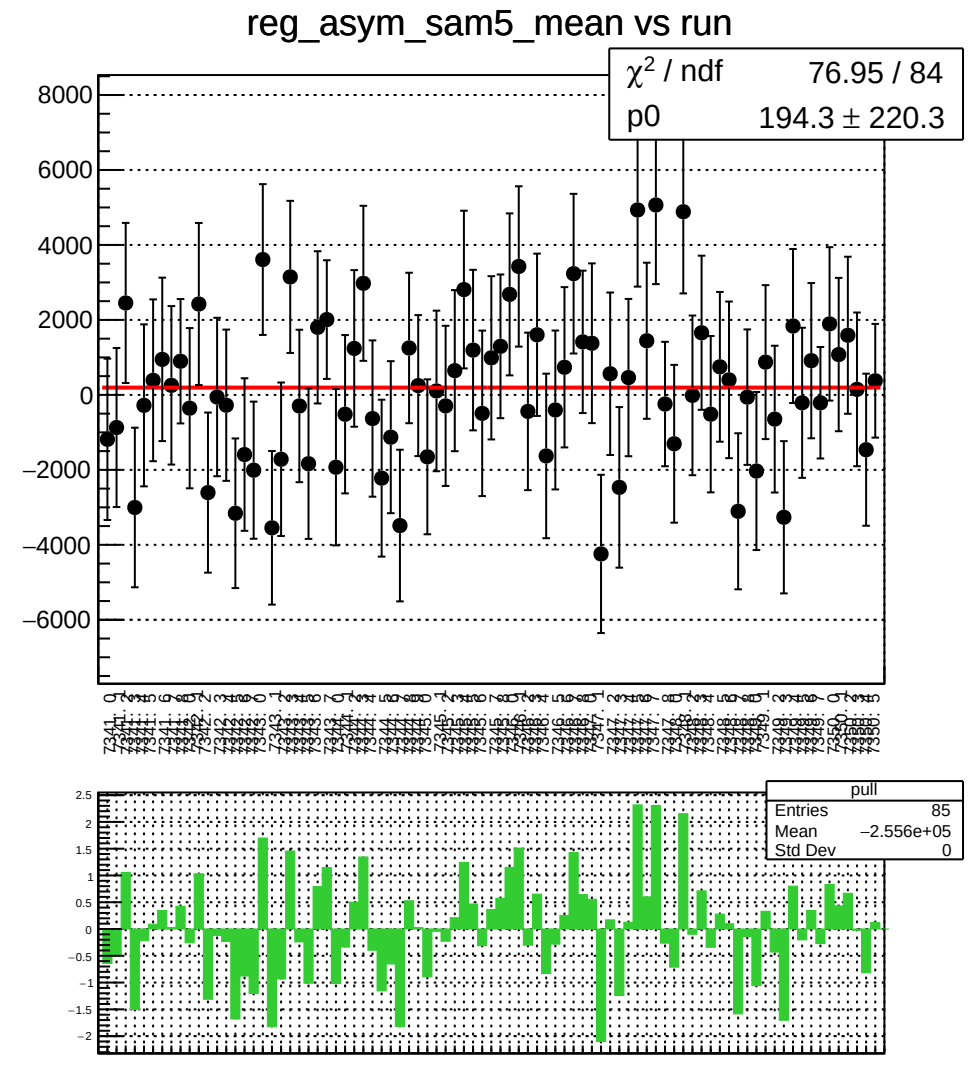

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.56 / 84
p0 −0.1657 ± 0.4059
pull
Entries 85
Mean −0.68
Std Dev 0
pull1D
Entries 85
Mean −0.02262
Std Dev 0.955

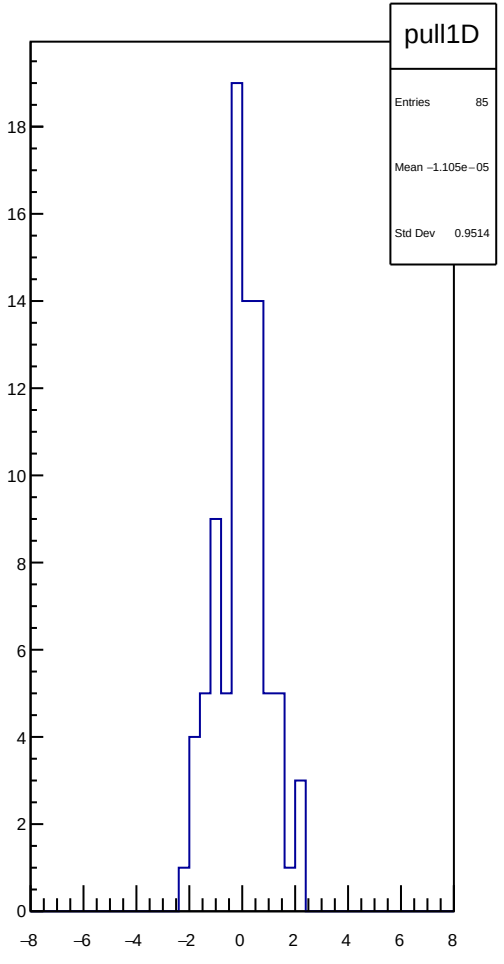

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.703e+04 / 84
p0 356.1 ± 0.287
1000
900
800
700
600
500
400
300

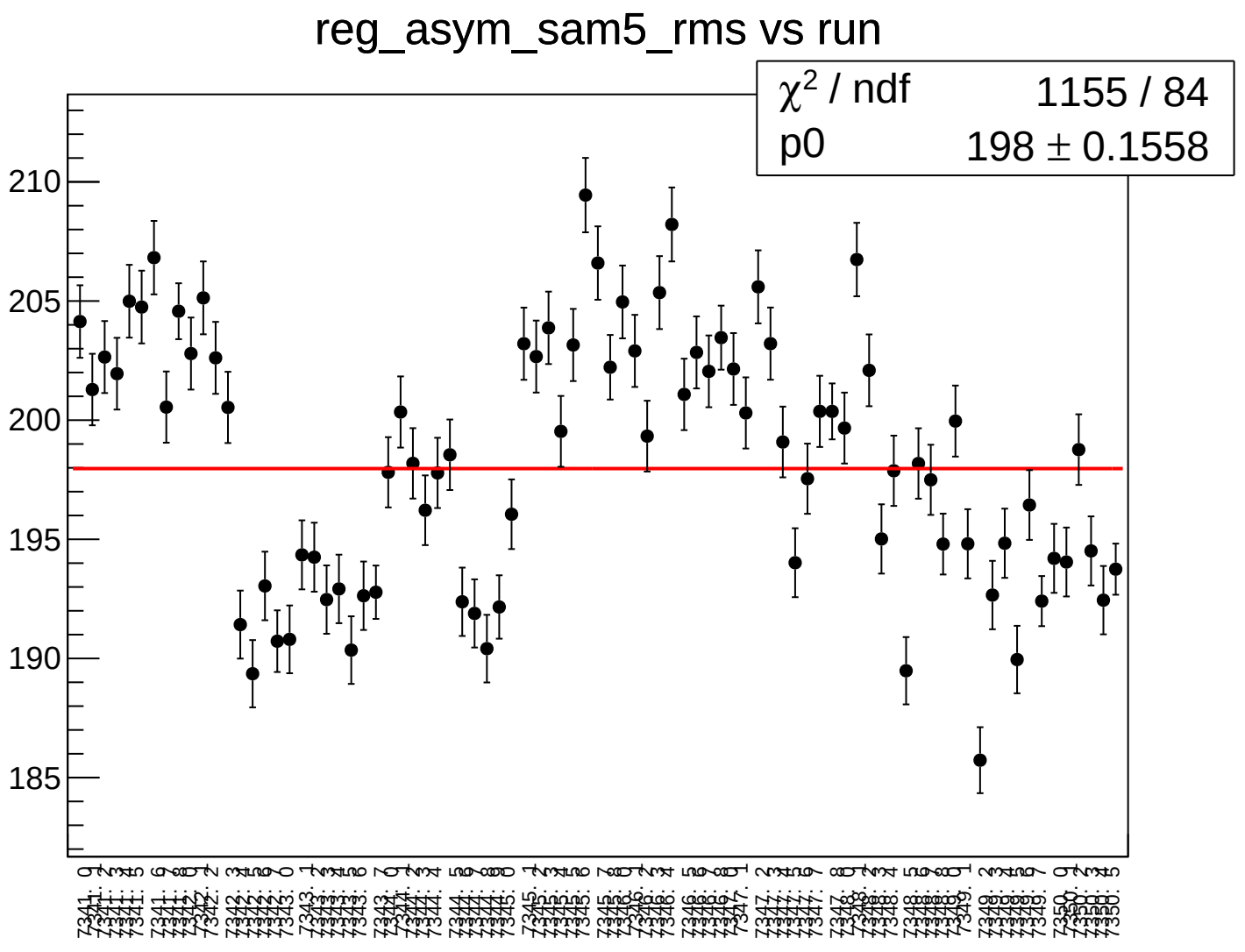

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.14 / 84
p0 −6.49e−14 ± 4.292e−14
pull
Entries 85
Mean 55.51
Std Dev 44.8

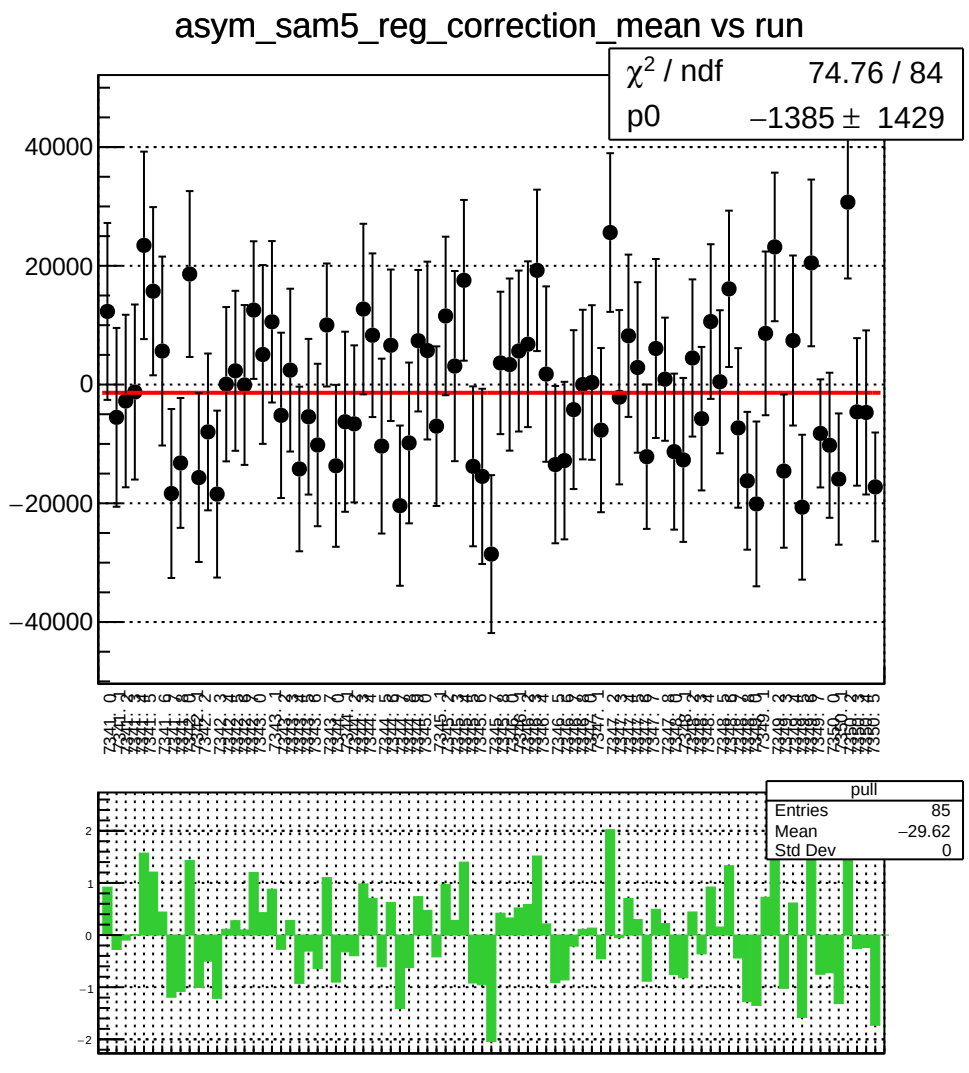

pull1D
Entries 85
Mean −0.03644
Std Dev 1

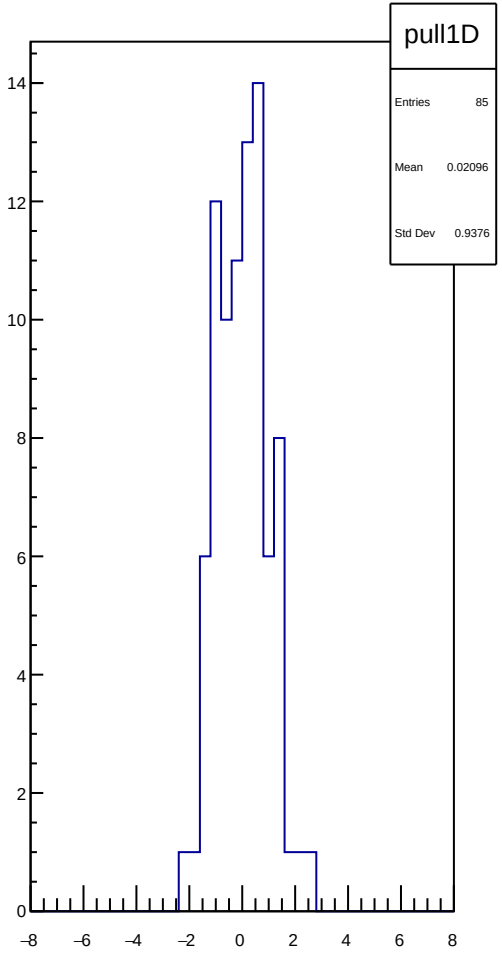

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.508e+05 / 84
p0 3.277e−11 ± 3.035e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

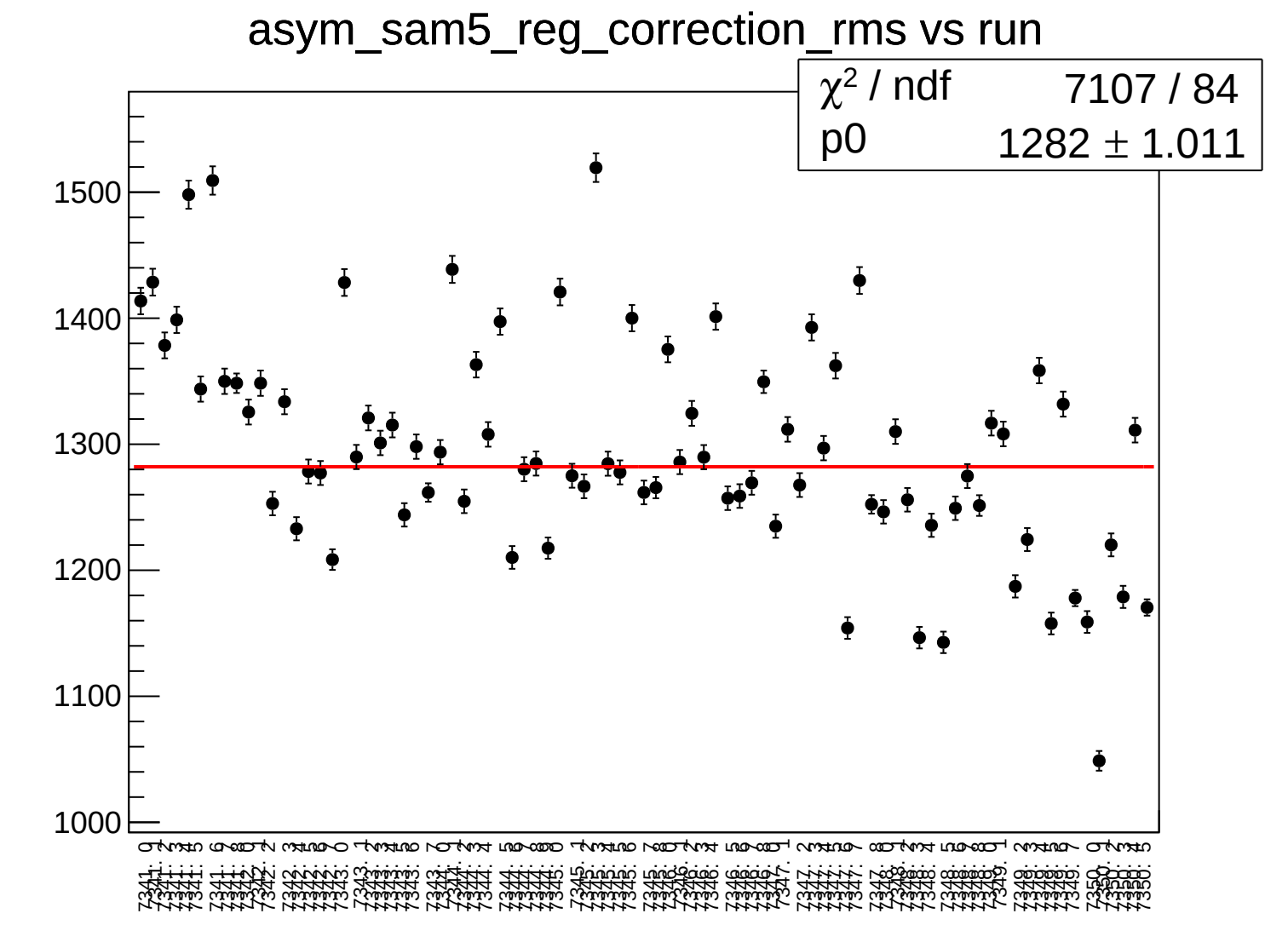

reg_asym_sam5_mean vs run
χ² / ndf 76.95 / 84
p0 194.3 ± 220.3
pull
Entries 85
Mean −2.556e+05
Std Dev 0

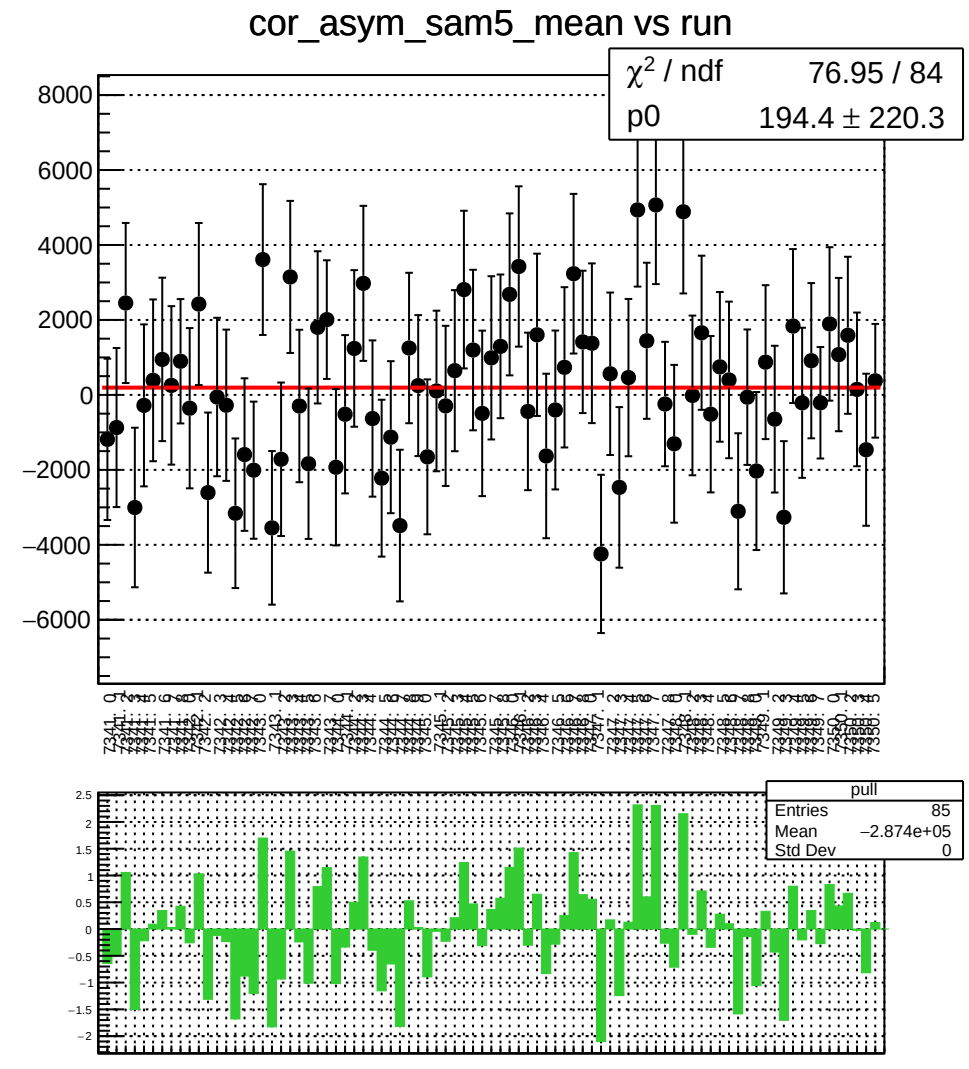

pull1D
Entries 85
Mean −1.105e−05
Std Dev 0.9514

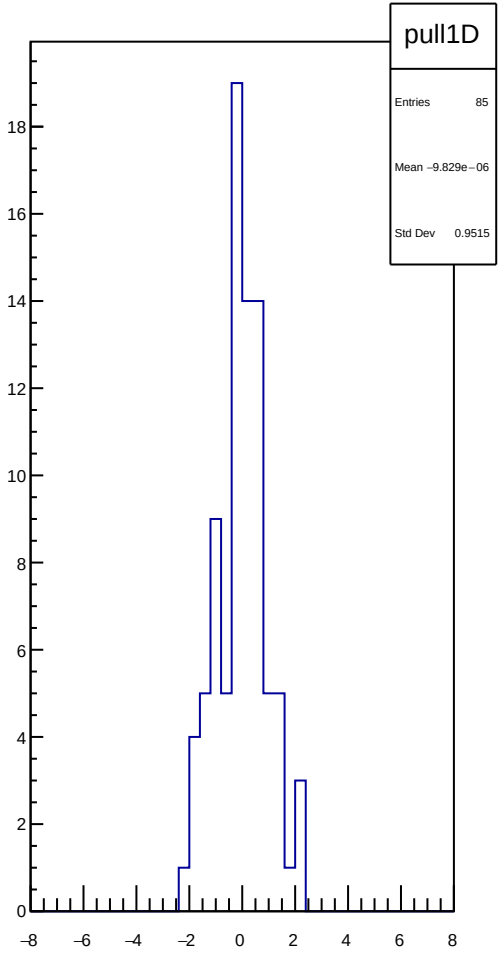

reg_asym_sam5_rms vs run
χ² / ndf 1155 / 84
p0 198 ± 0.1558
210
205
200
195
190
185

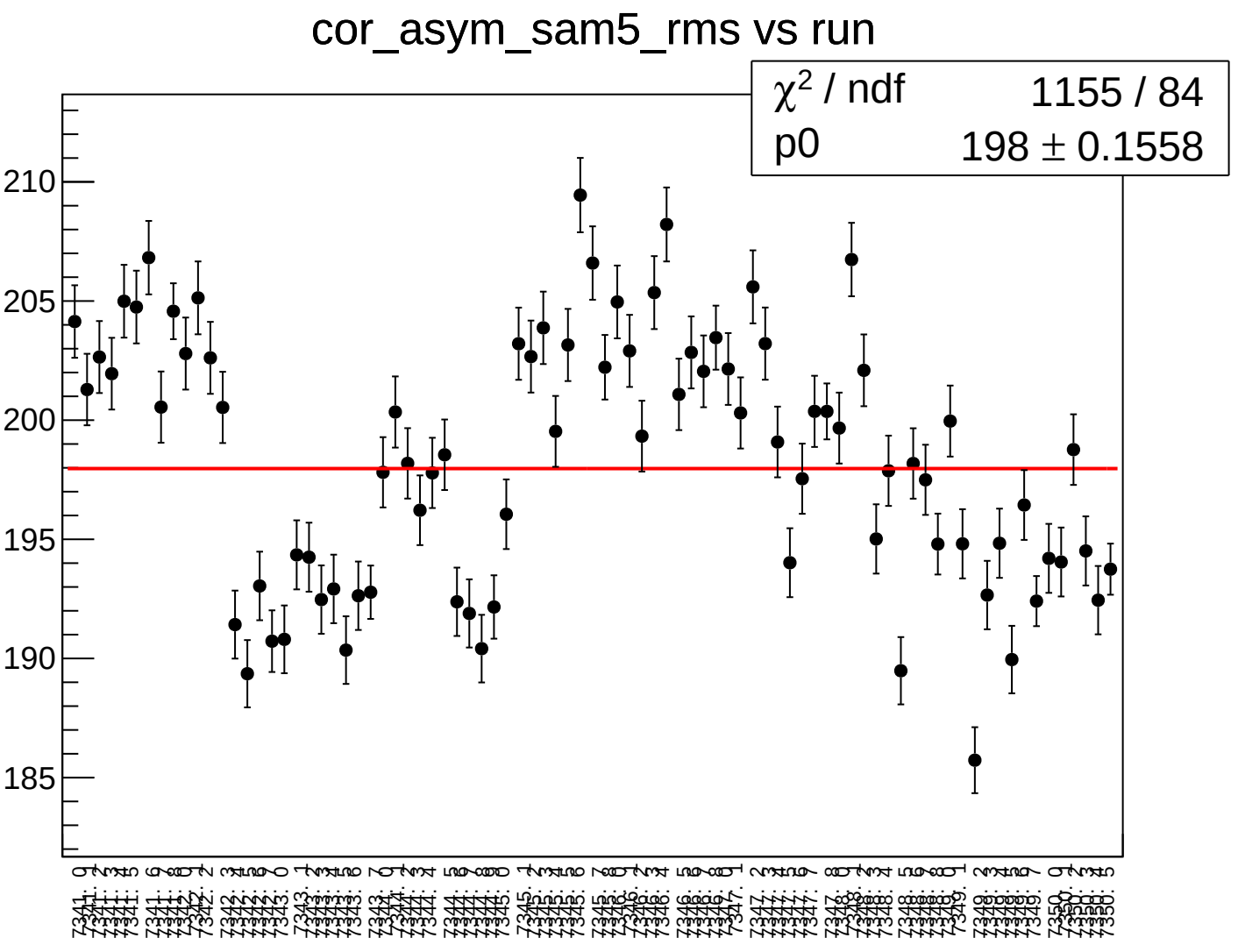

asym_sam5_reg_correction_mean vs run
χ² / ndf 74.76 / 84
p0 −1385 ± 1429
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −29.62
Std Dev 0
2
1
0
−1
−2

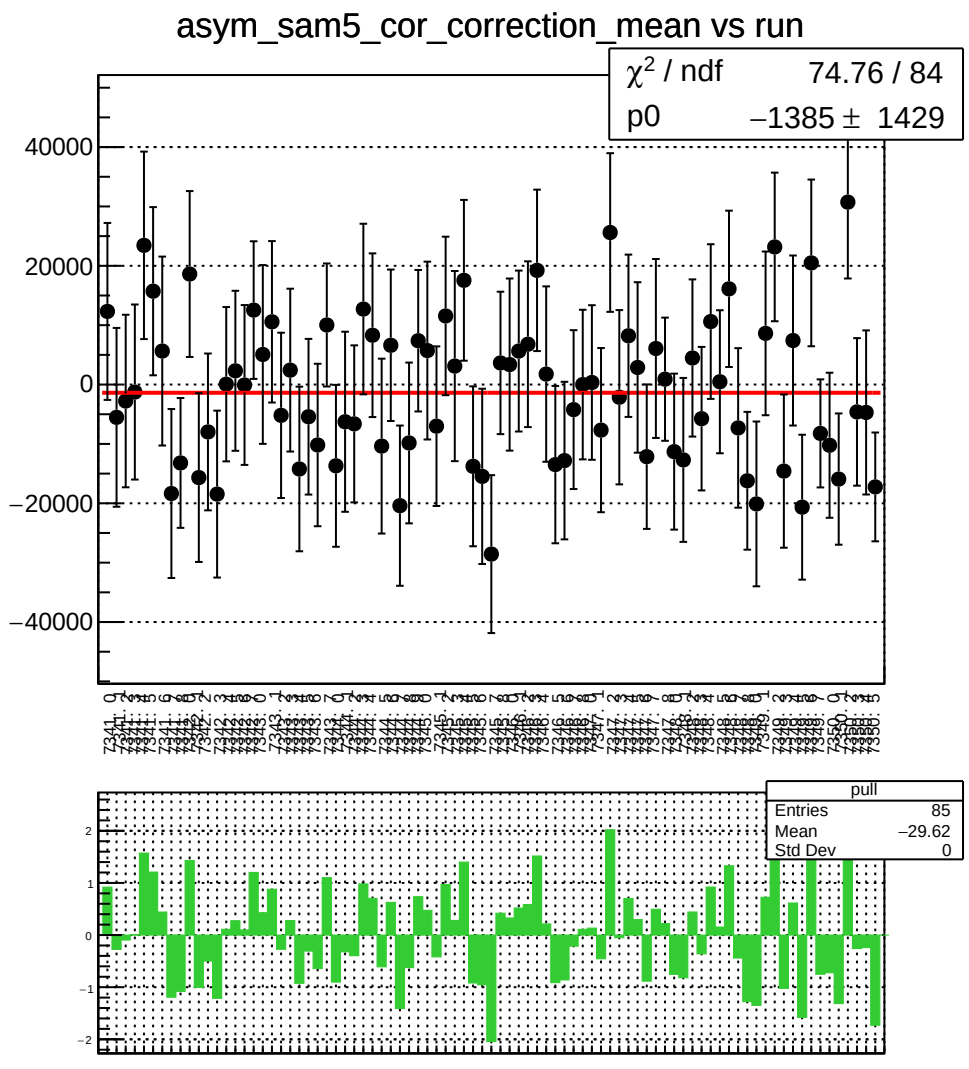

pull1D
Entries 85
Mean 0.02096
Std Dev 0.9376
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

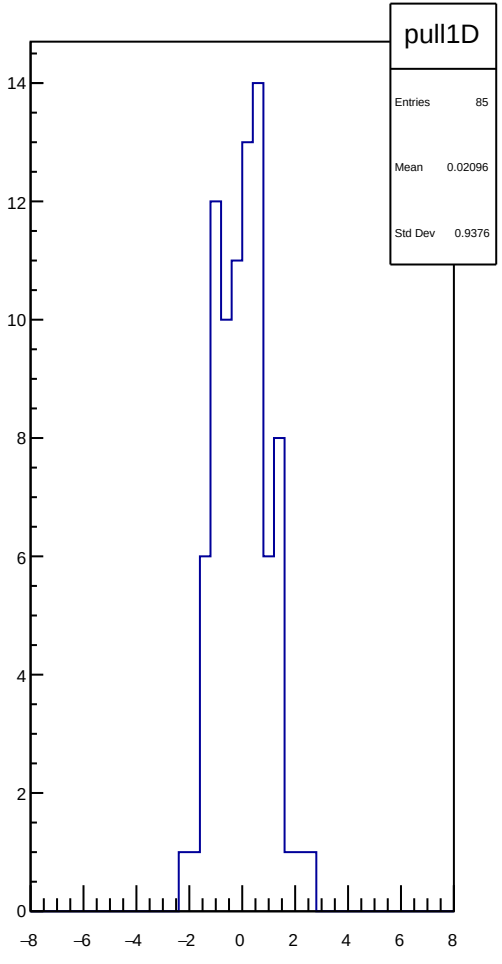

asym_sam5_reg_correction_rms vs run
χ² / ndf 7107 / 84
p0 1282 ± 1.011
1500
1400
1300
1200
1100
1000

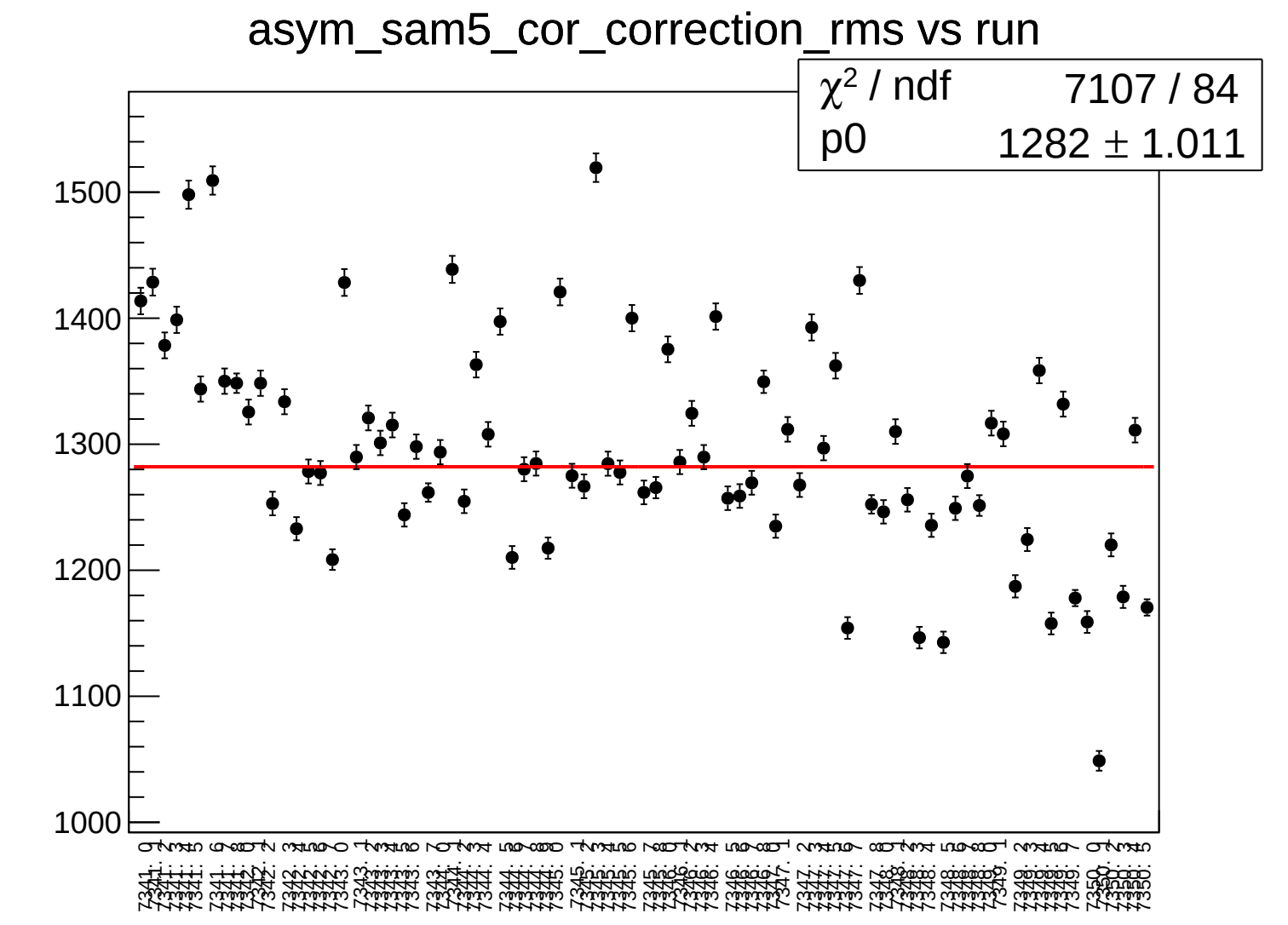

cor_asym_sam5_mean vs run
χ² / ndf 76.95 / 84
p0 194.4 ± 220.3
pull
Entries 85
Mean −2.874e+05
Std Dev 0

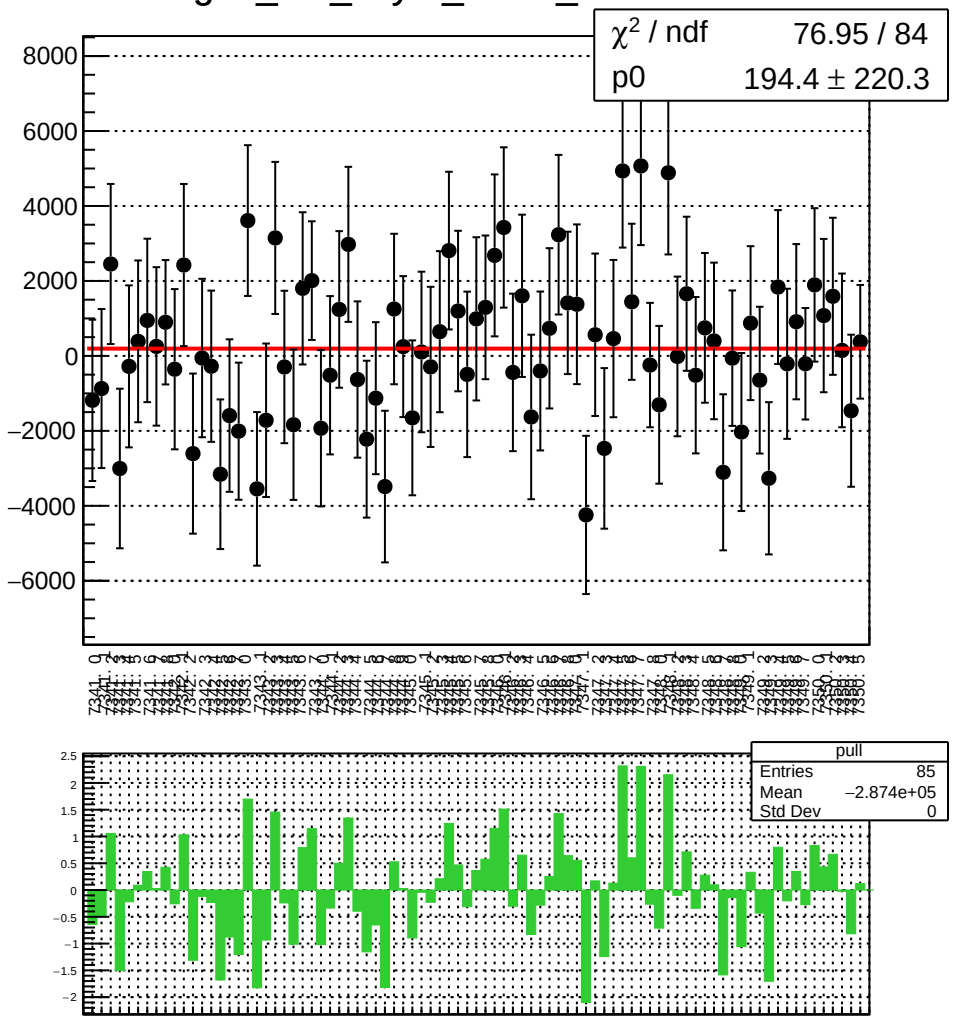

pull1D
Entries 85
Mean −9.829e−06
Std Dev 0.9515

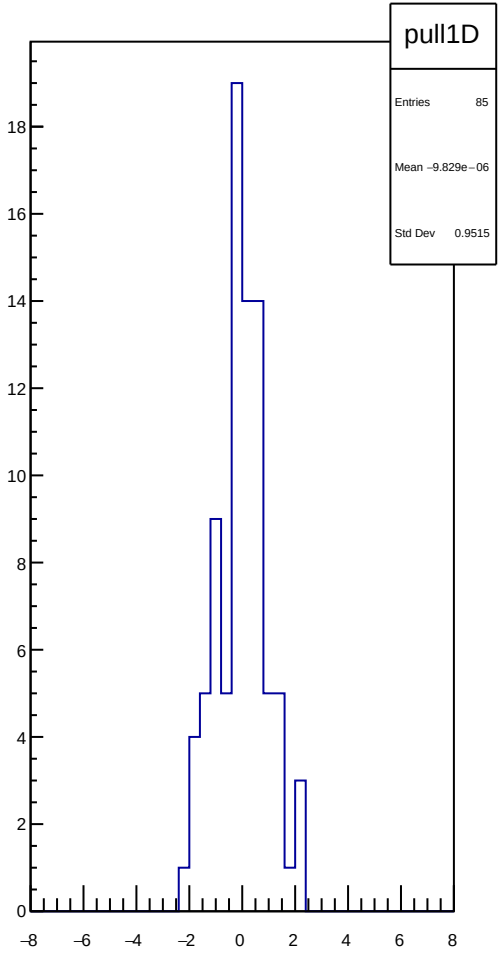

cor_asym_sam5_rms vs run
χ^2 / ndf 1155 / 84
p0 198 ± 0.1558
210
205
200
195
190
185

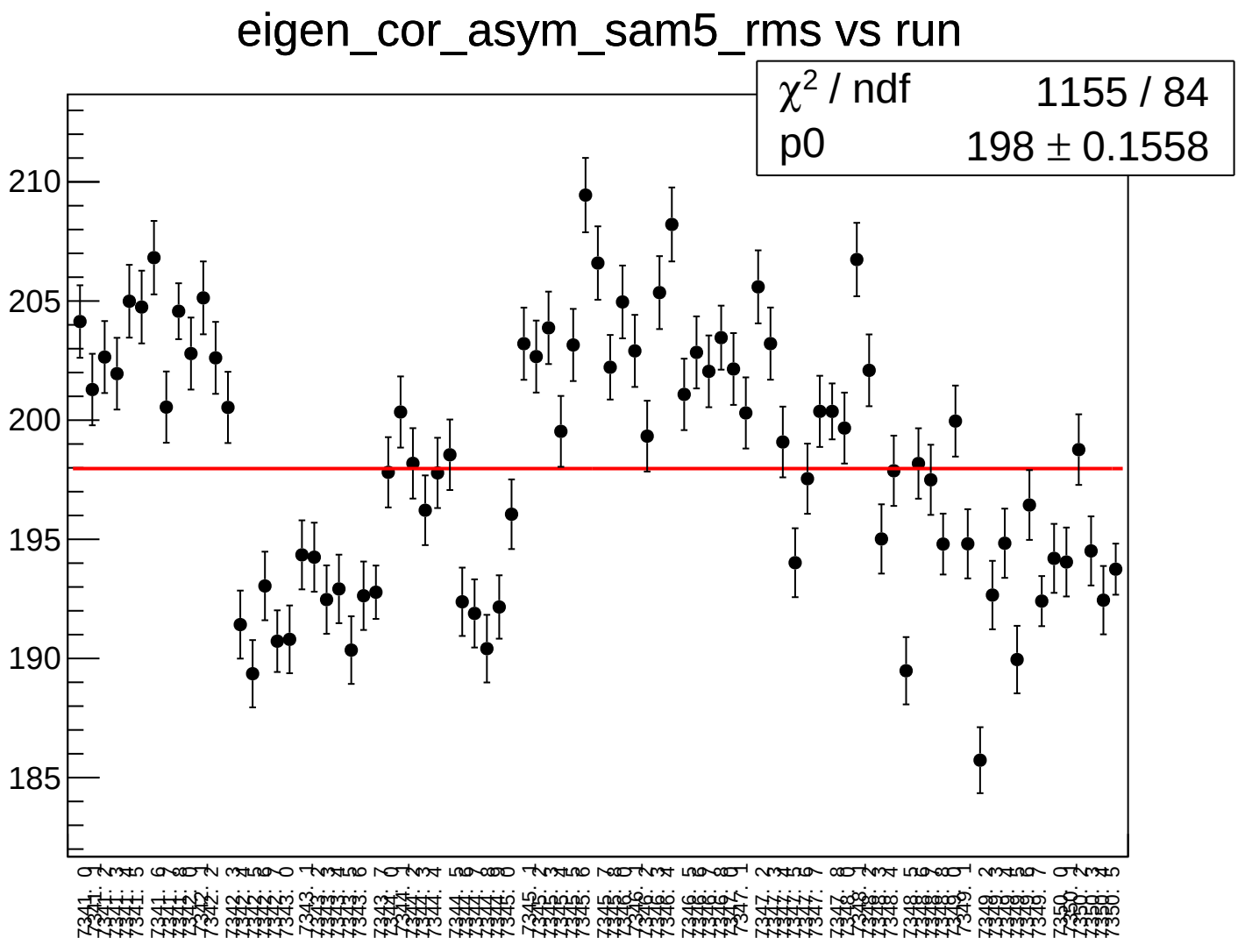

asym_sam5_cor_correction_mean vs run
χ² / ndf 74.76 / 84
p0 −1385 ± 1429
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −29.62
Std Dev 0
2
1
0
−1
−2

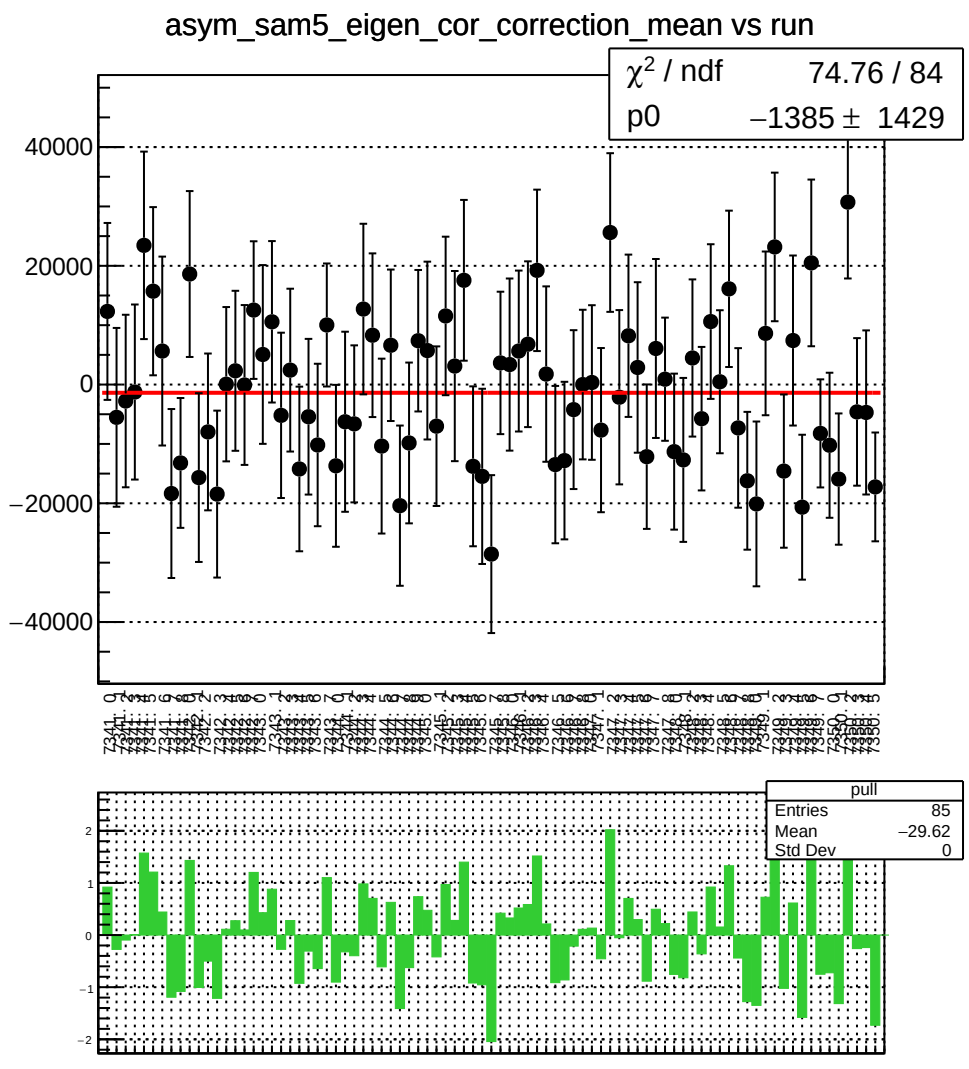

pull1D
Entries 85
Mean 0.02096
Std Dev 0.9376
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

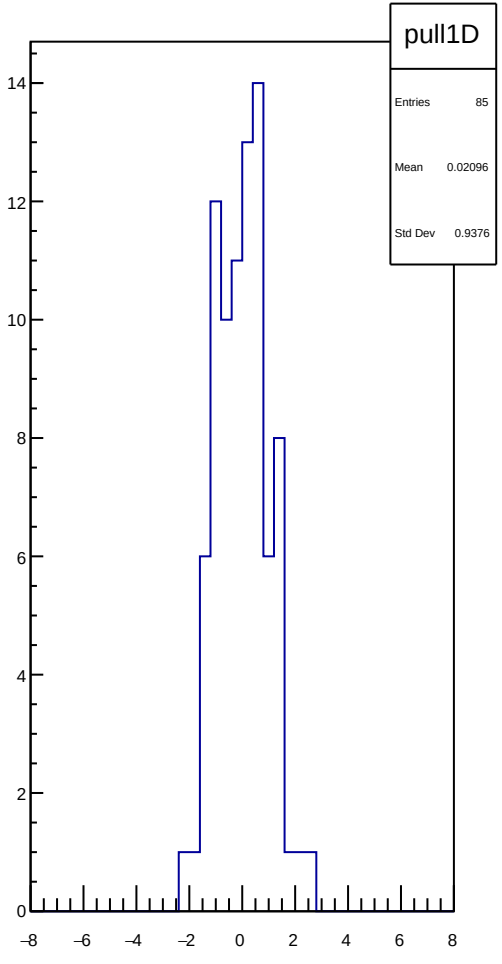

asym_sam5_cor_correction_rms vs run
χ² / ndf 7107 / 84
p0 1282 ± 1.011
1500
1400
1300
1200
1100
1000

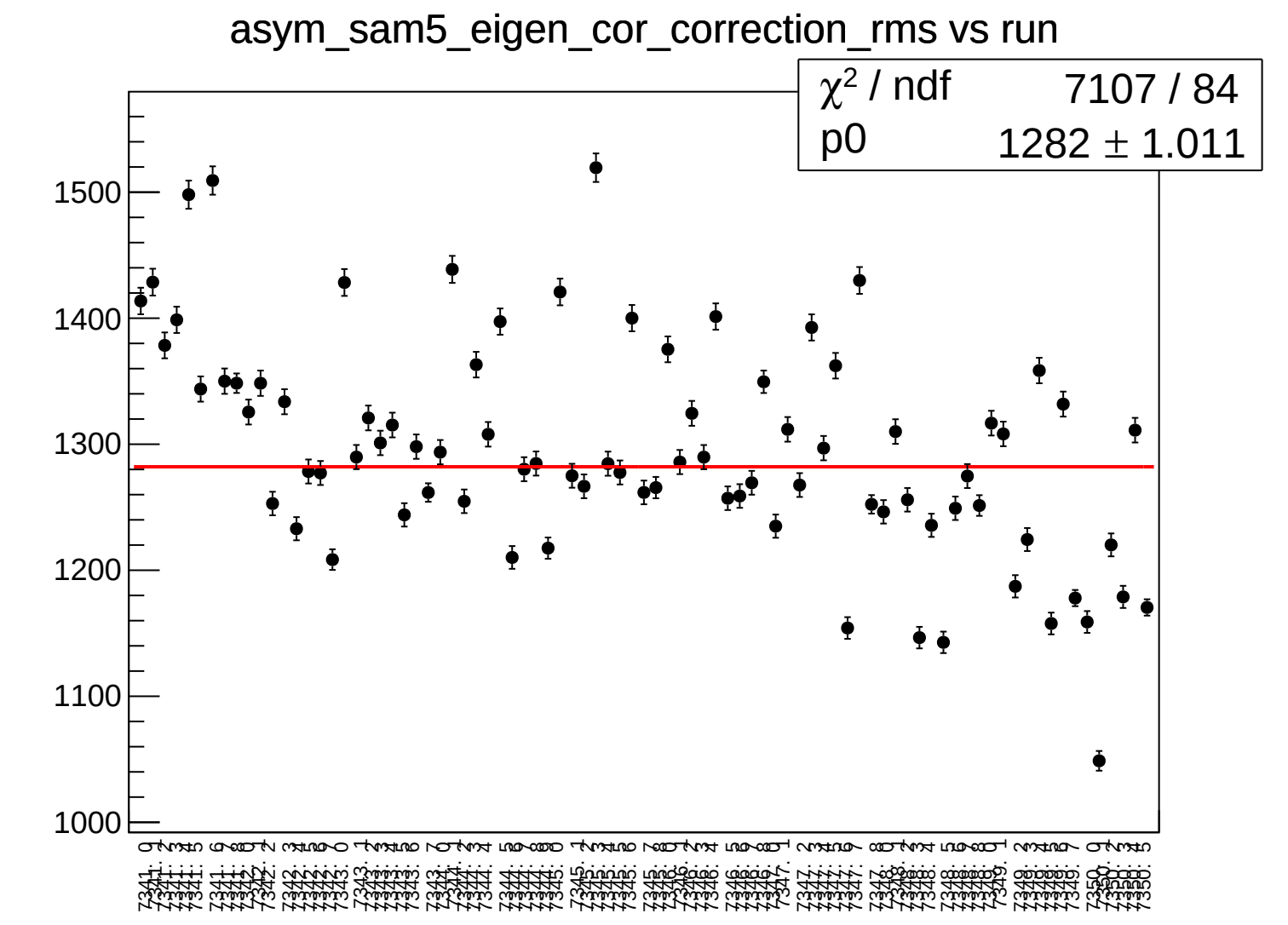

eigen_cor_asym_sam5_mean vs run
χ² / ndf 76.95 / 84
p0 194.4 ± 220.3
pull
Entries 85
Mean −2.874e+05
Std Dev 0

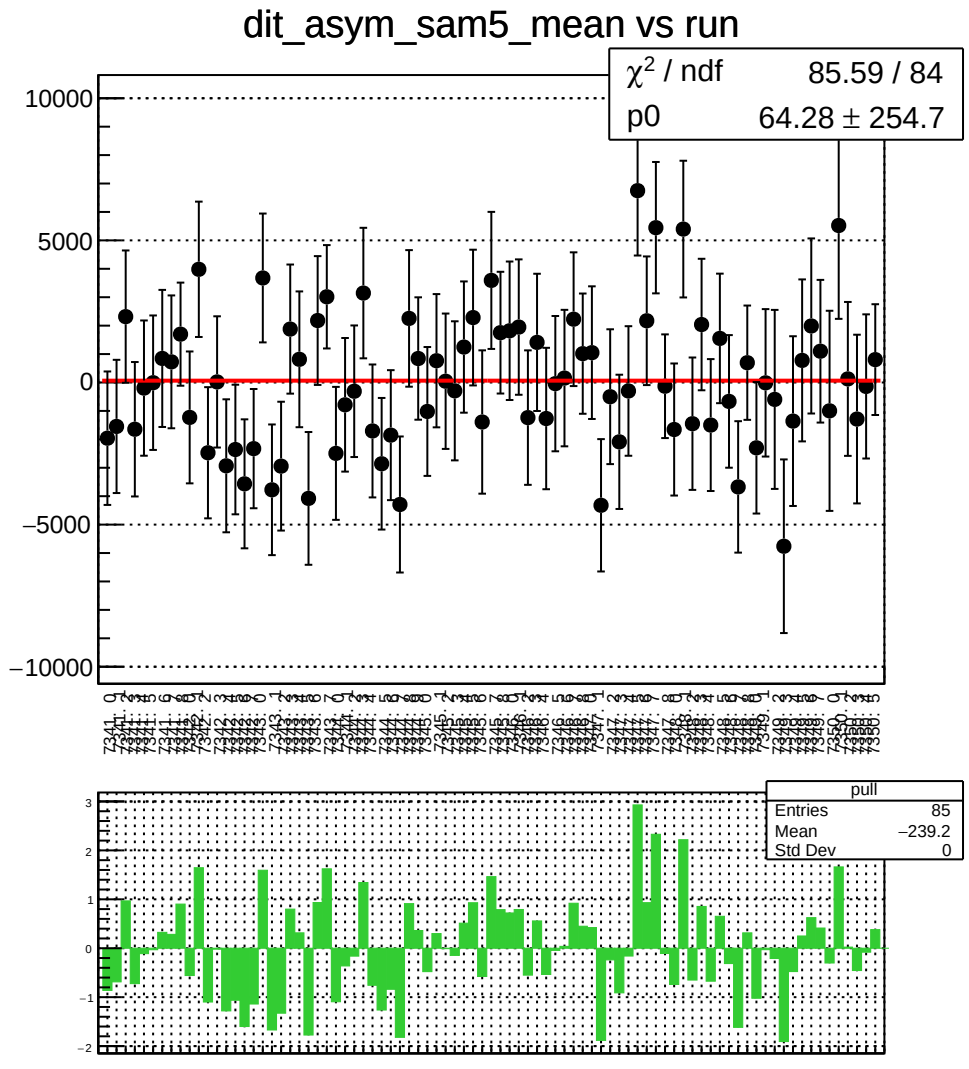

pull1D
Entries 85
Mean −9.829e−06
Std Dev 0.9515

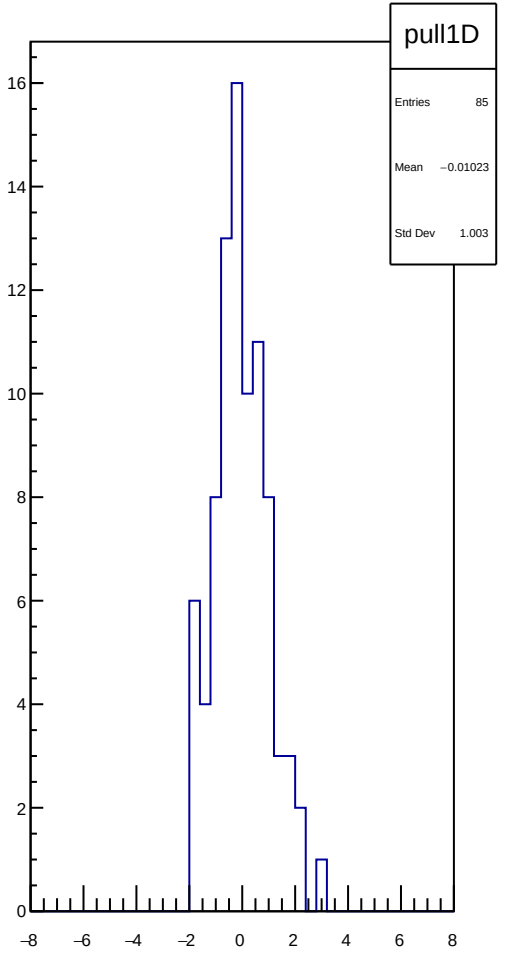

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1155 / 84
p0 198 ± 0.1558
210
205
200
195
190
185

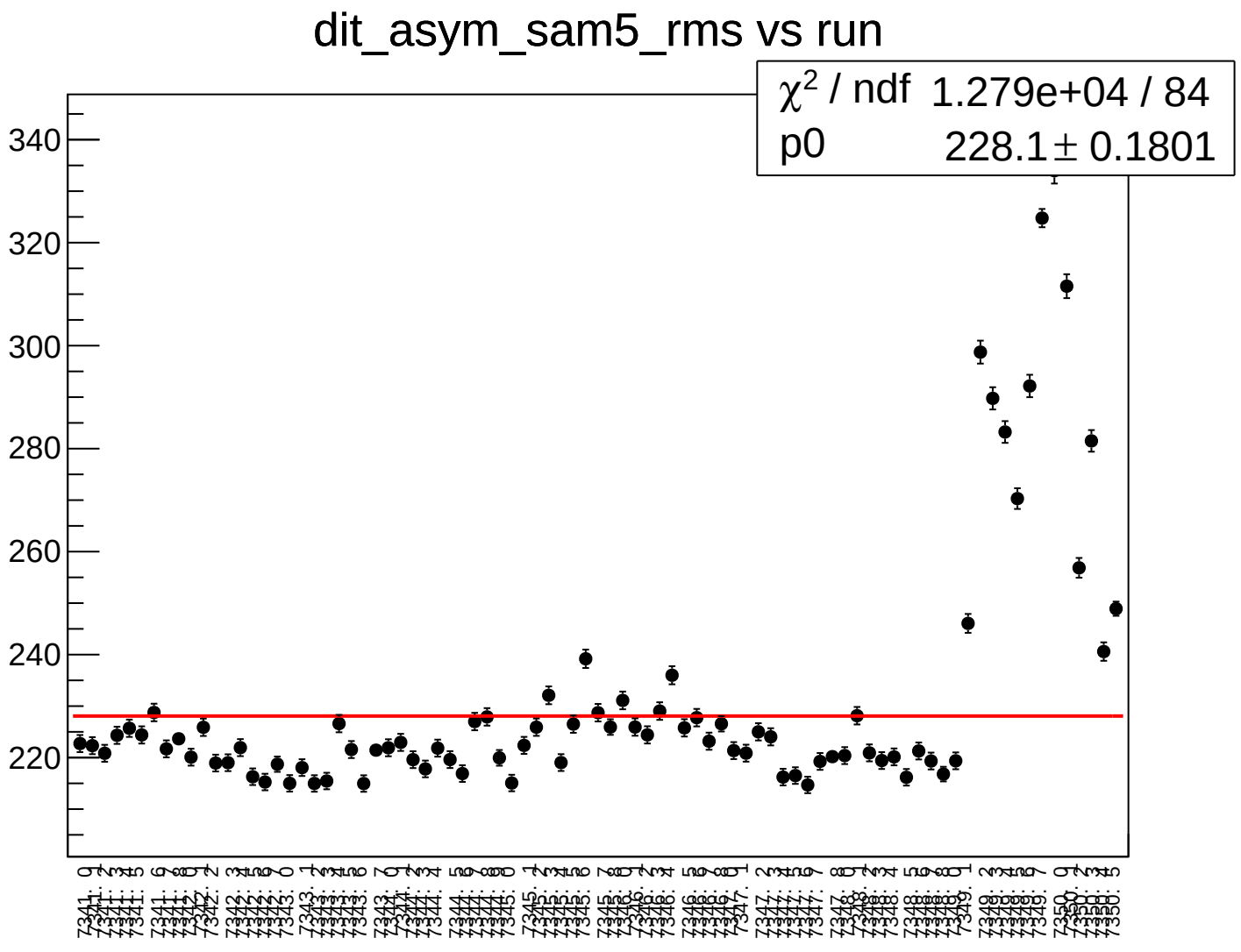

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 74.76 / 84
p0 −1385 ± 1429
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −29.62
Std Dev 0
2
1
0
−1
−2

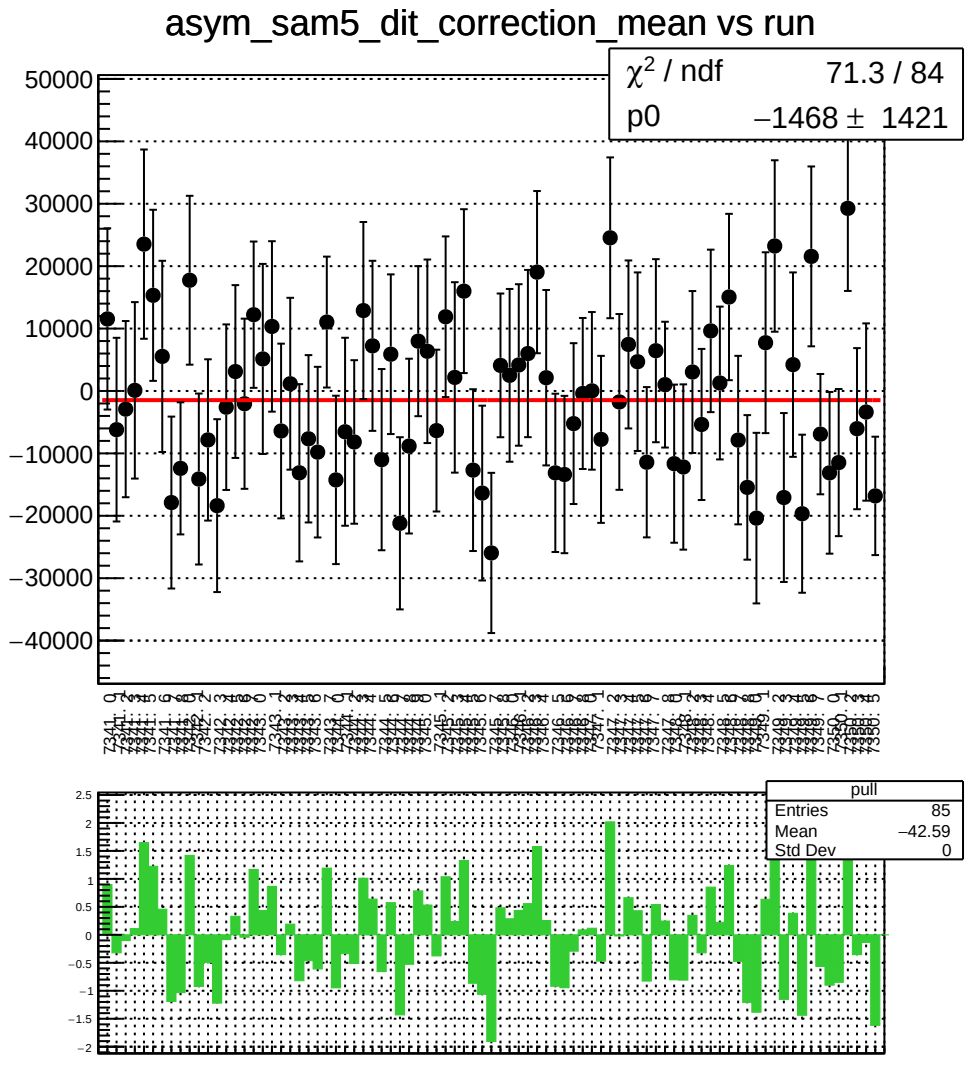

pull1D
Entries 85
Mean 0.02096
Std Dev 0.9376
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

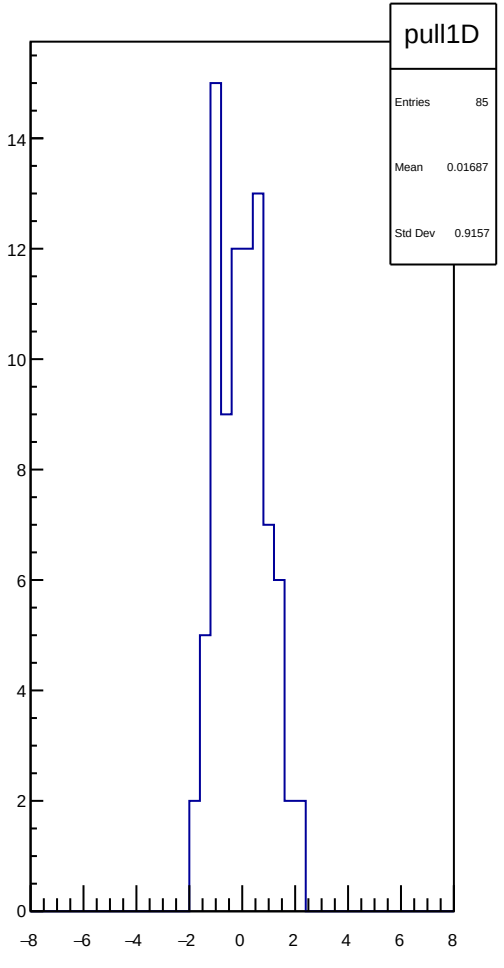

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 7107 / 84
p0 1282 ± 1.011
1500
1400
1300
1200
1100
1000

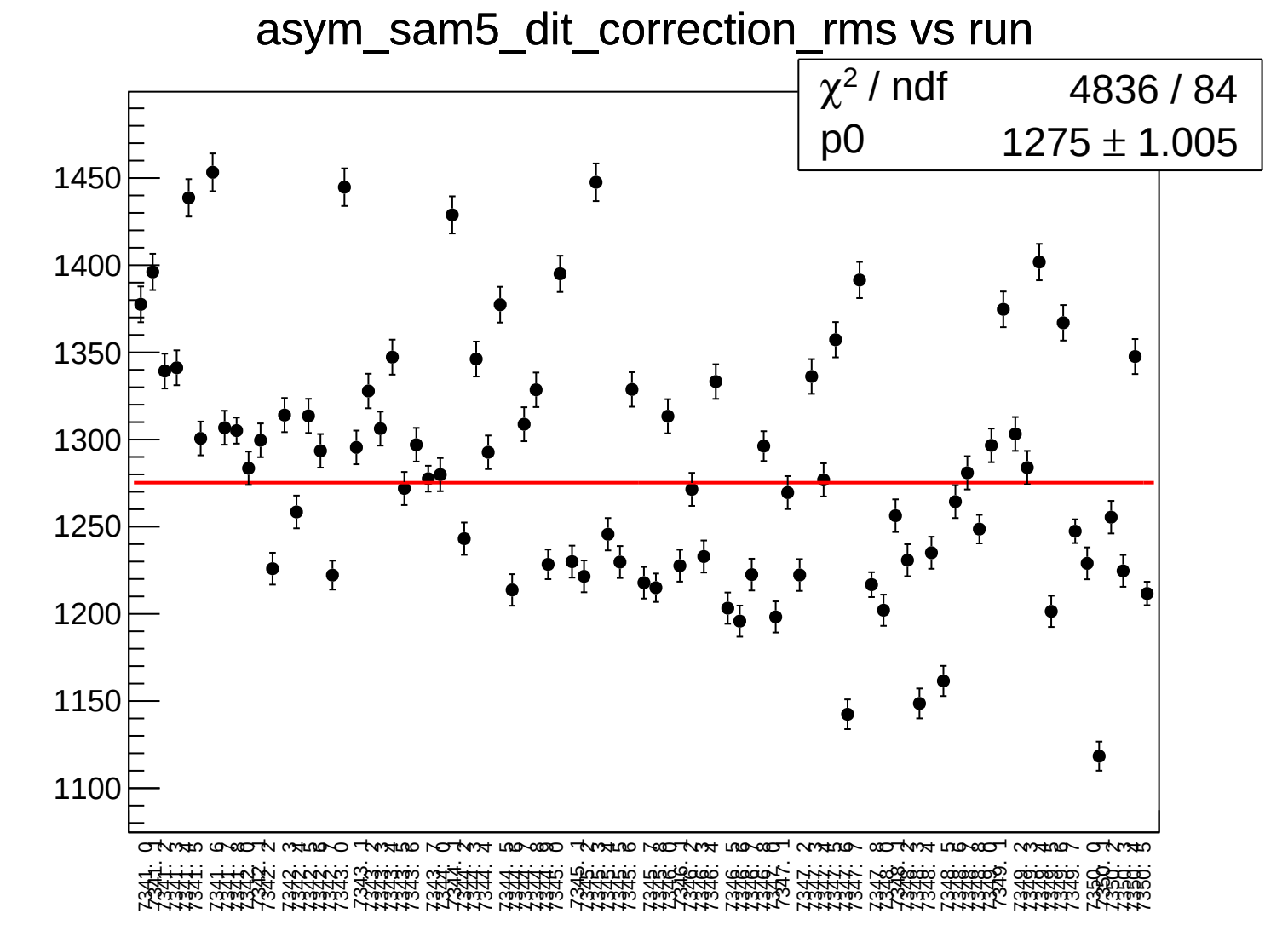

dit_asym_sam5_mean vs run
χ² / ndf 85.59 / 84
p0 64.28 ± 254.7
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −239.2
Std Dev 0
3
2
1
0
−1
−2

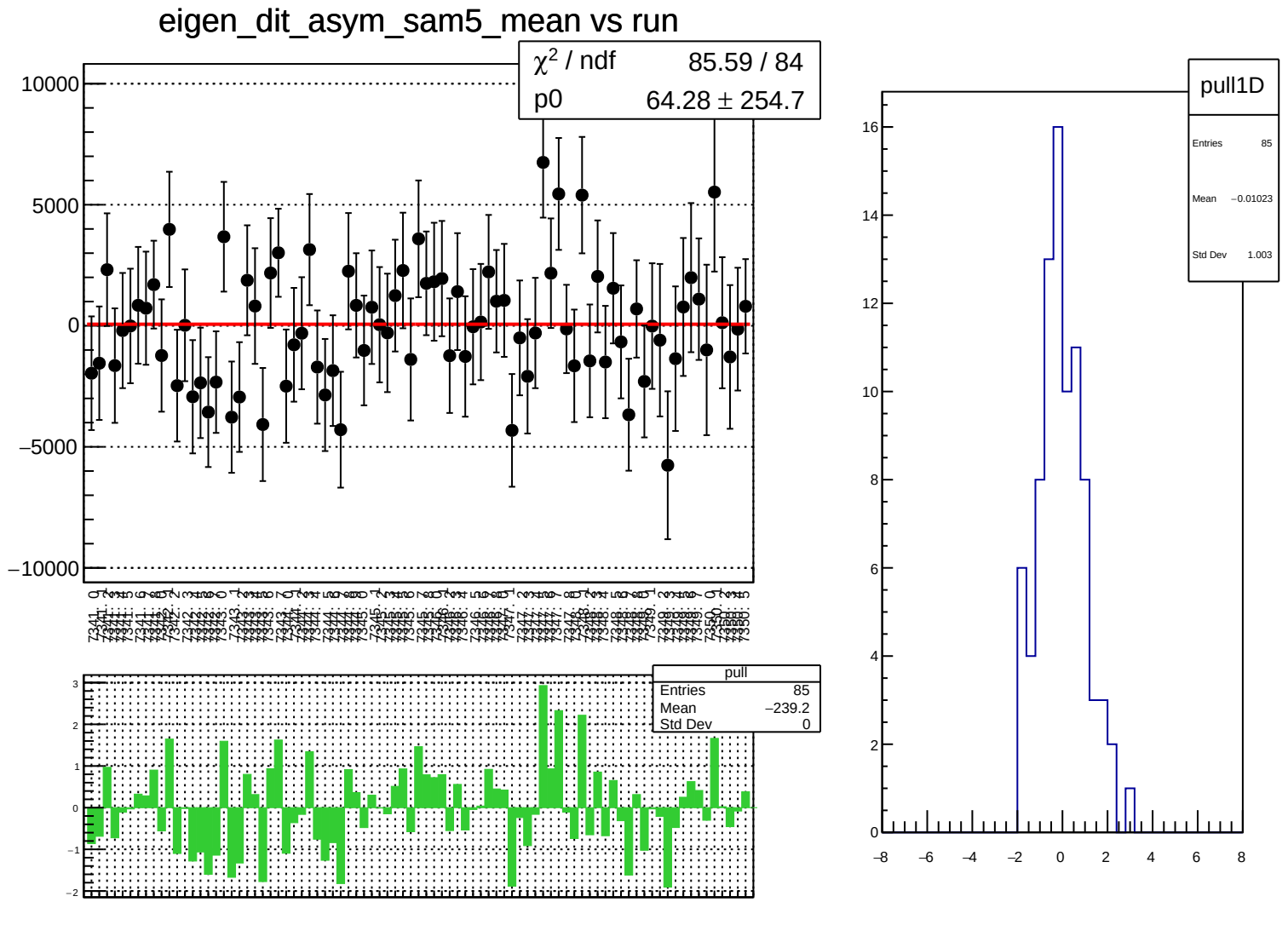

pull1D
Entries 85
Mean −0.01023
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

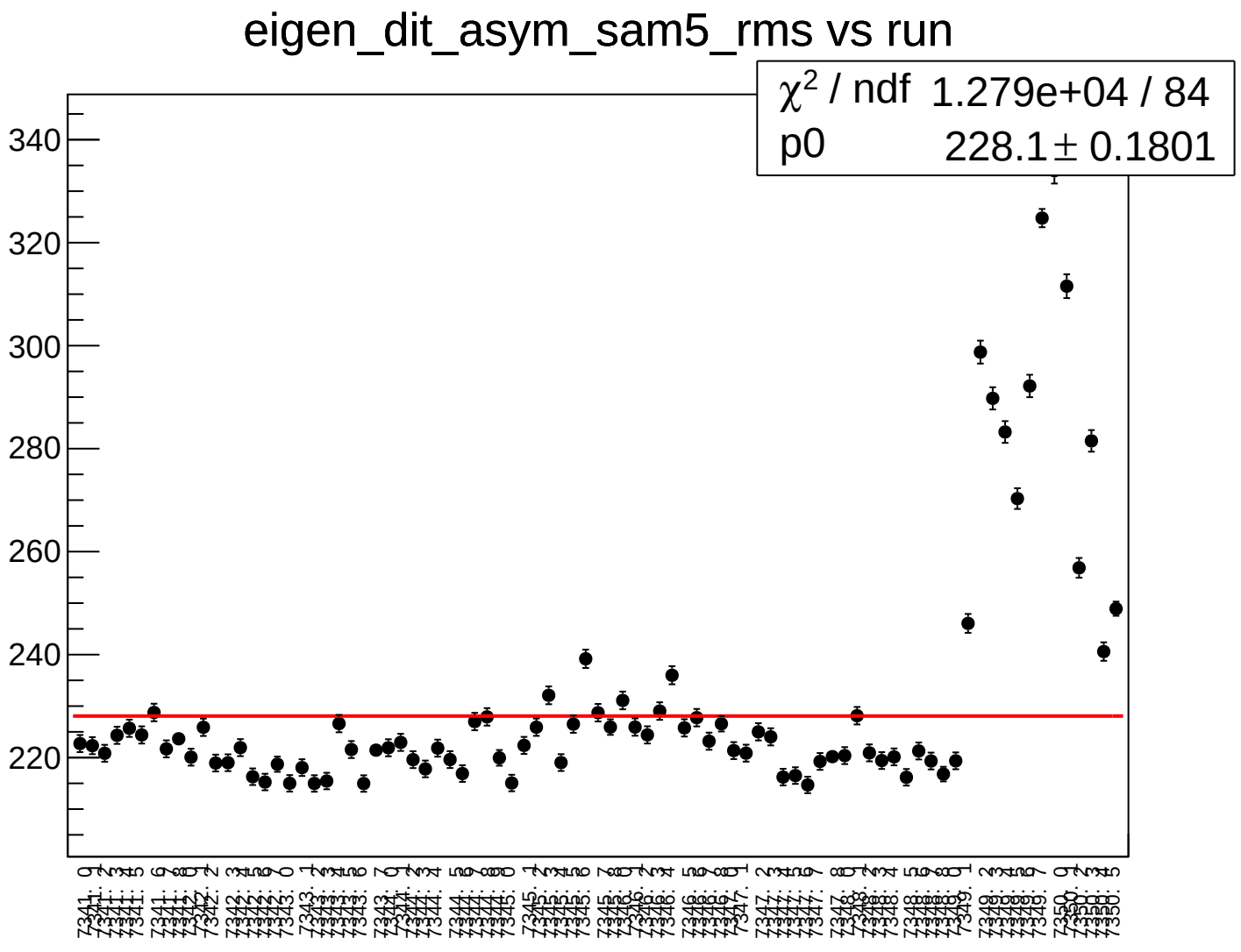

dit_asym_sam5_rms vs run
χ² / ndf 1.279e+04 / 84
p0 228.1 ± 0.1801
340
320
300
280
260
240
220

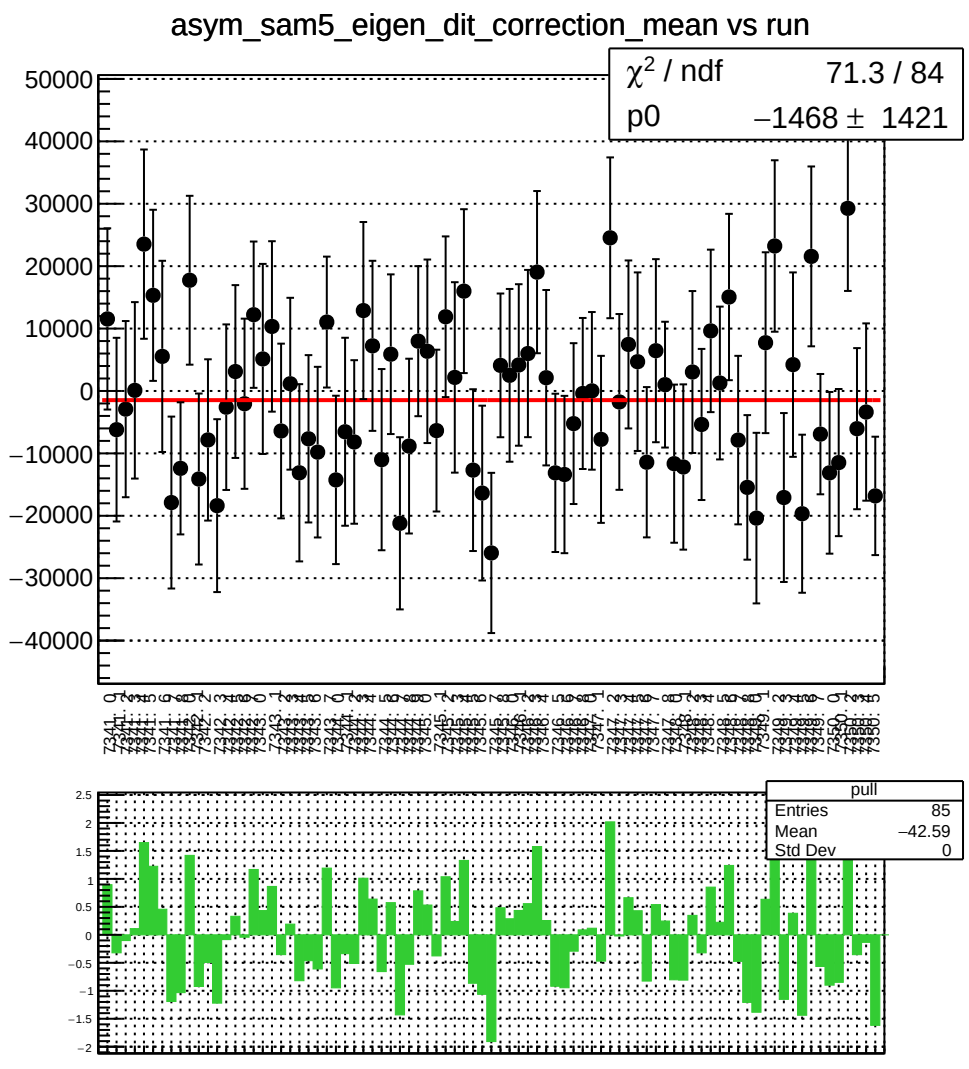

asym_sam5_dit_correction_mean vs run
χ² / ndf 71.3 / 84
p0 −1468 ± 1421
pull
Entries 85
Mean −42.59
Std Dev 0

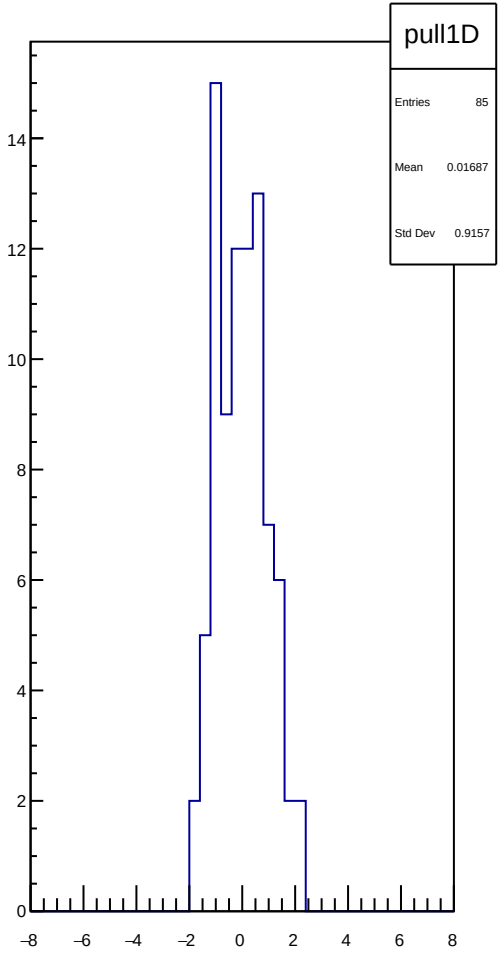

pull1D
Entries 85
Mean 0.01687
Std Dev 0.9157

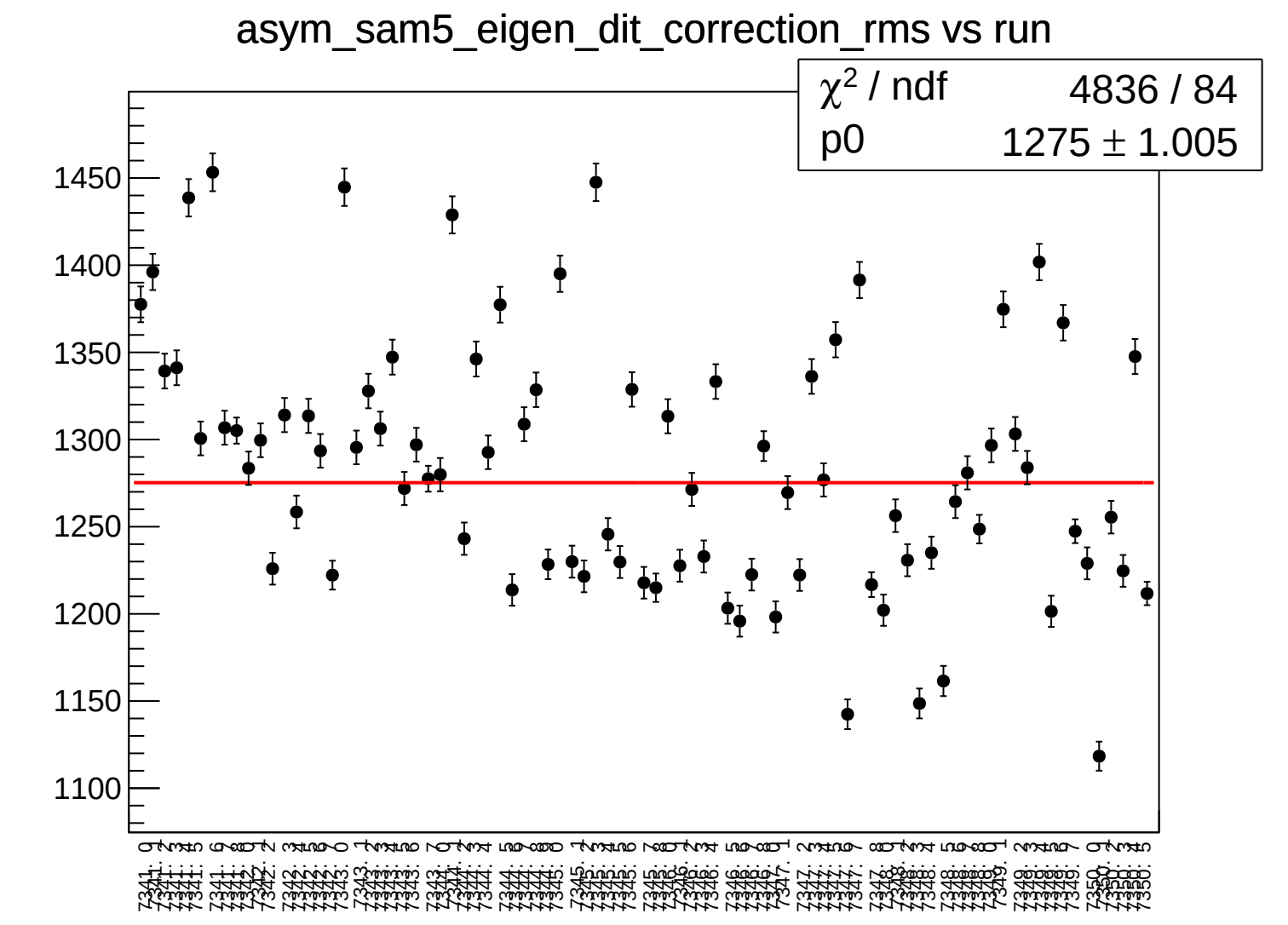

asym_sam5_dit_correction_rms vs run
χ² / ndf 4836 / 84
p0 1275 ± 1.005
1450
1400
1350
1300
1250
1200
1150
1100

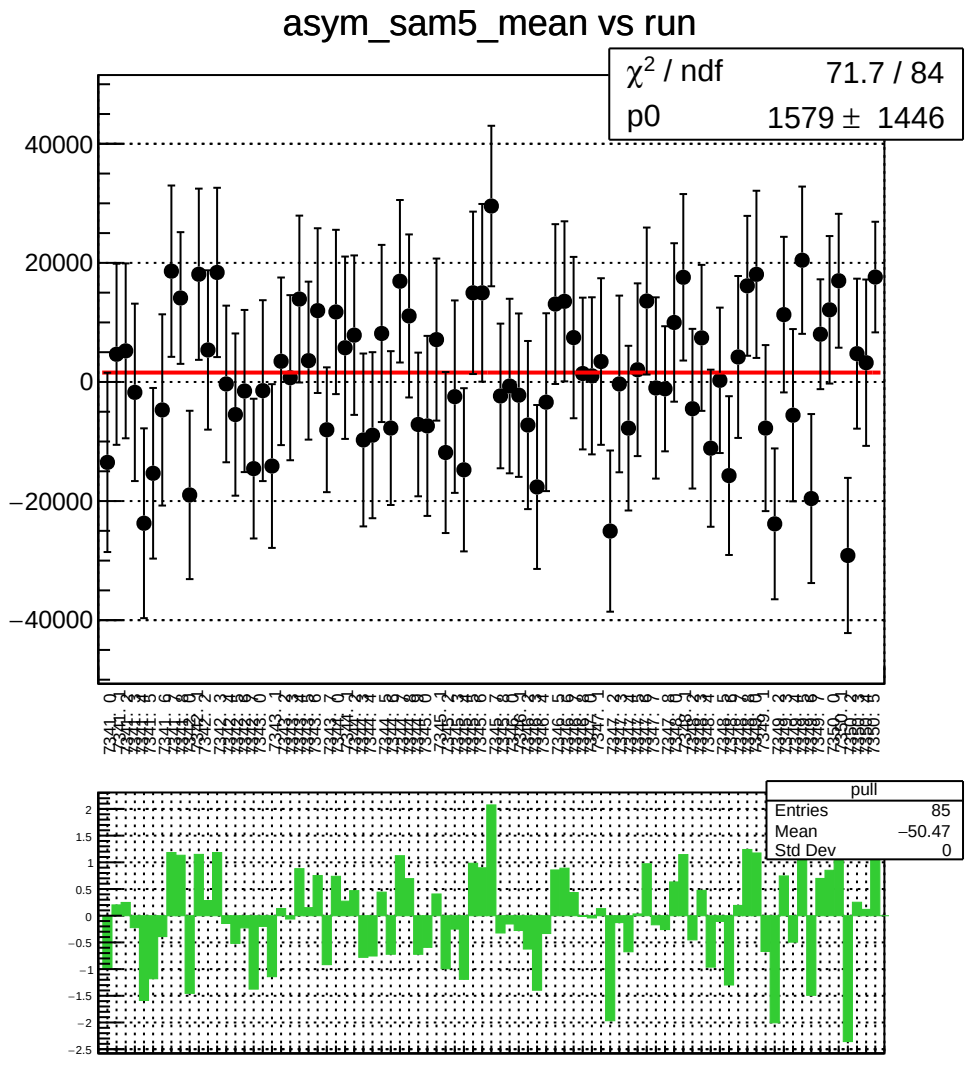

eigen_dit_asym_sam5_mean vs run
χ² / ndf 85.59 / 84
p0 64.28 ± 254.7
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −239.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01023
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

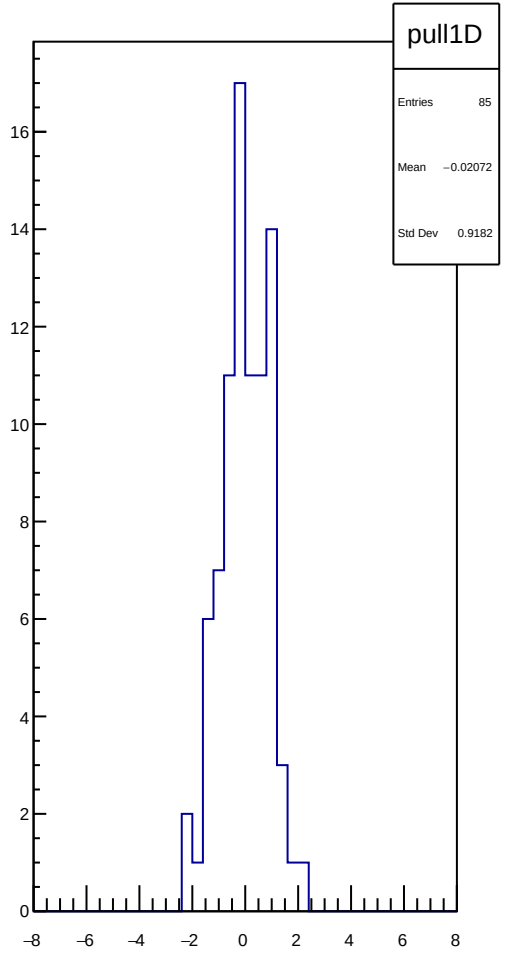

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1.279e+04 / 84
p0 228.1 ± 0.1801
340
320
300
280
260
240
220

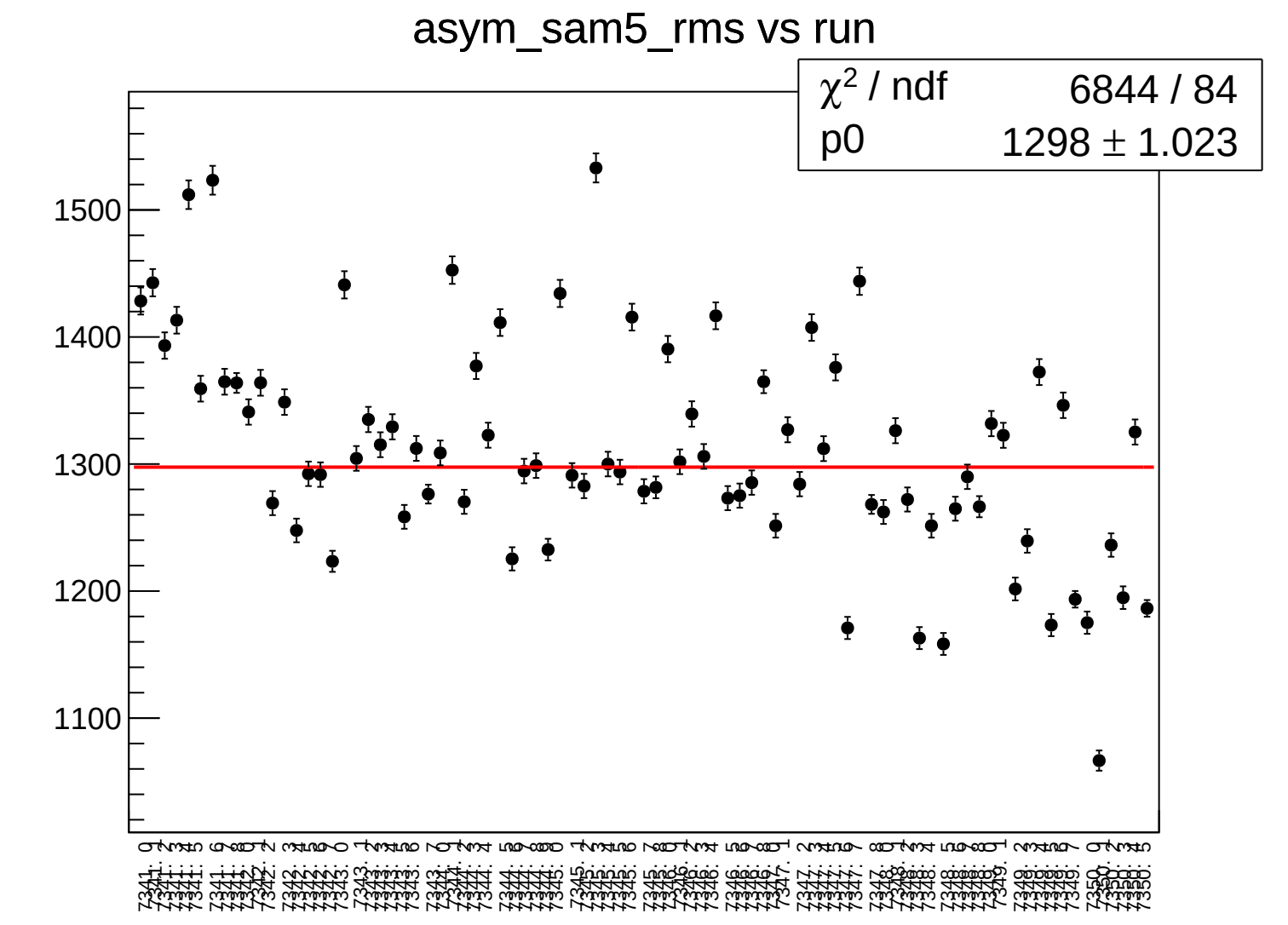

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 71.3 / 84
p0 −1468 ± 1421
pull
Entries 85
Mean −42.59
Std Dev 0

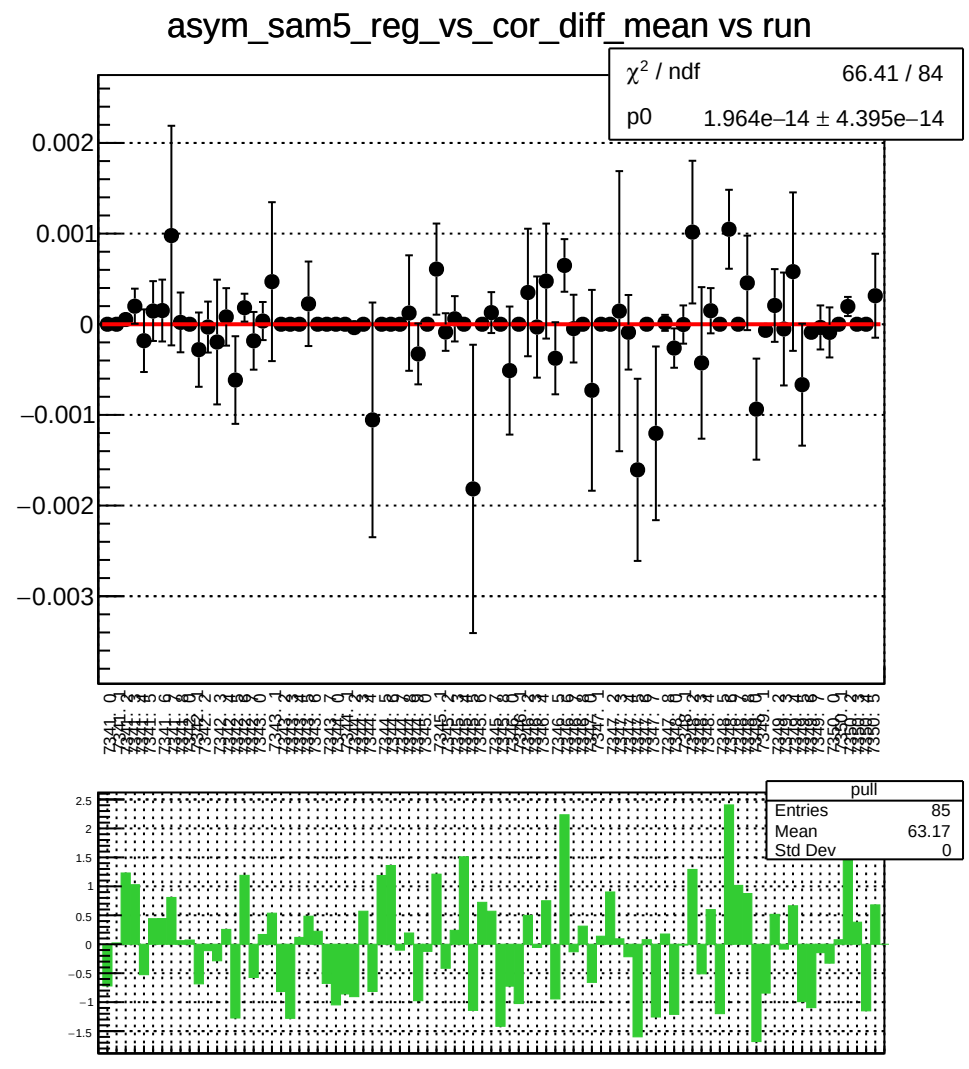

pull1D
Entries 85
Mean 0.01687
Std Dev 0.9157

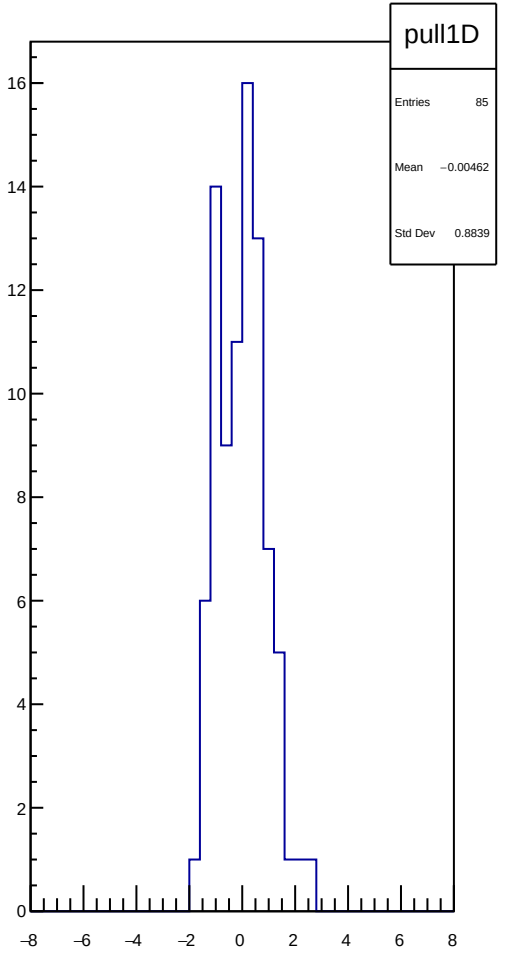

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 4836 / 84
p0 1275 ± 1.005
1450
1400
1350
1300
1250
1200
1150
1100

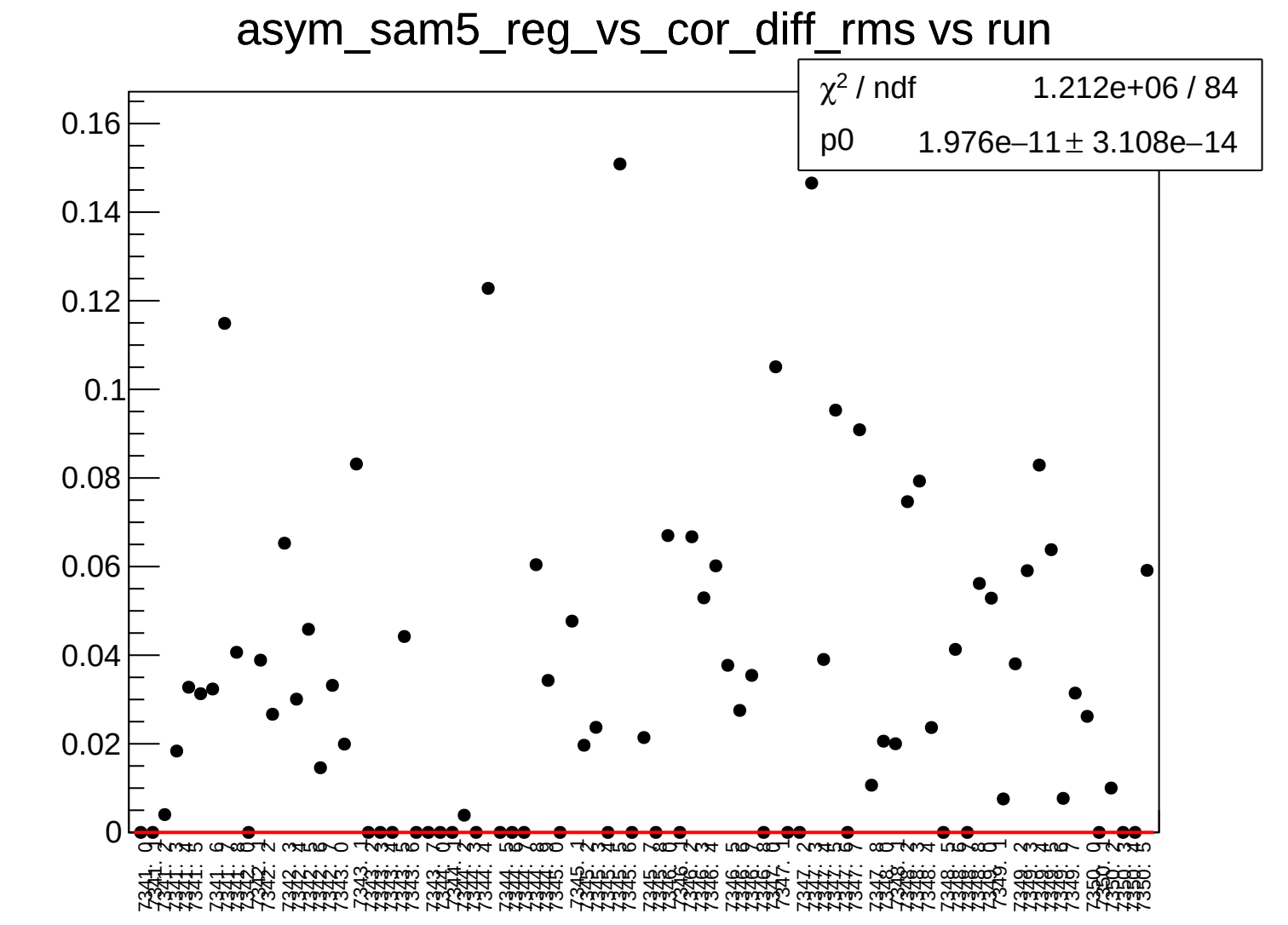

asym_sam5_mean vs run
χ² / ndf 71.7 / 84
p0 1579 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −50.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

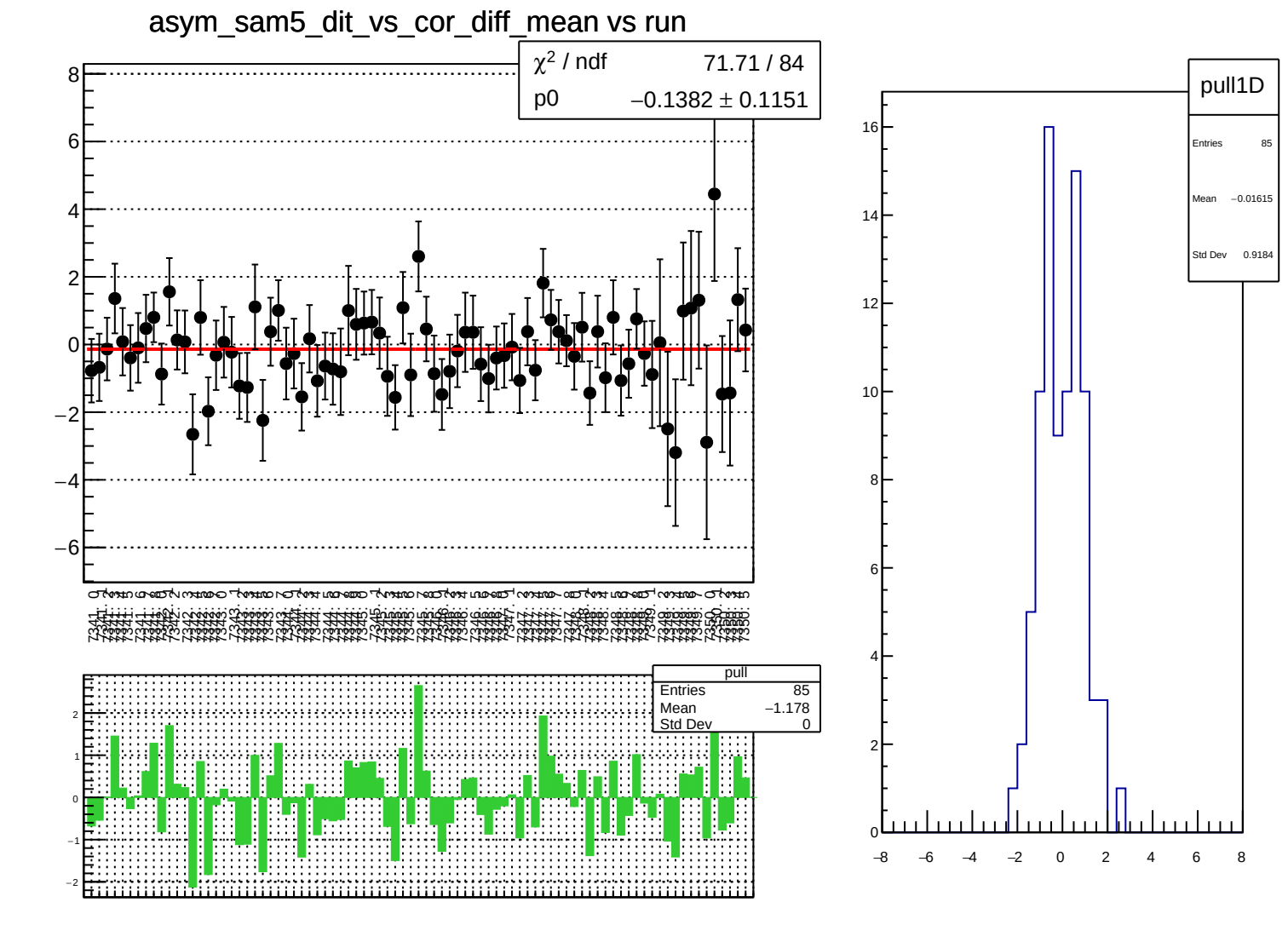

pull1D
Entries 85
Mean −0.02072
Std Dev 0.9182
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

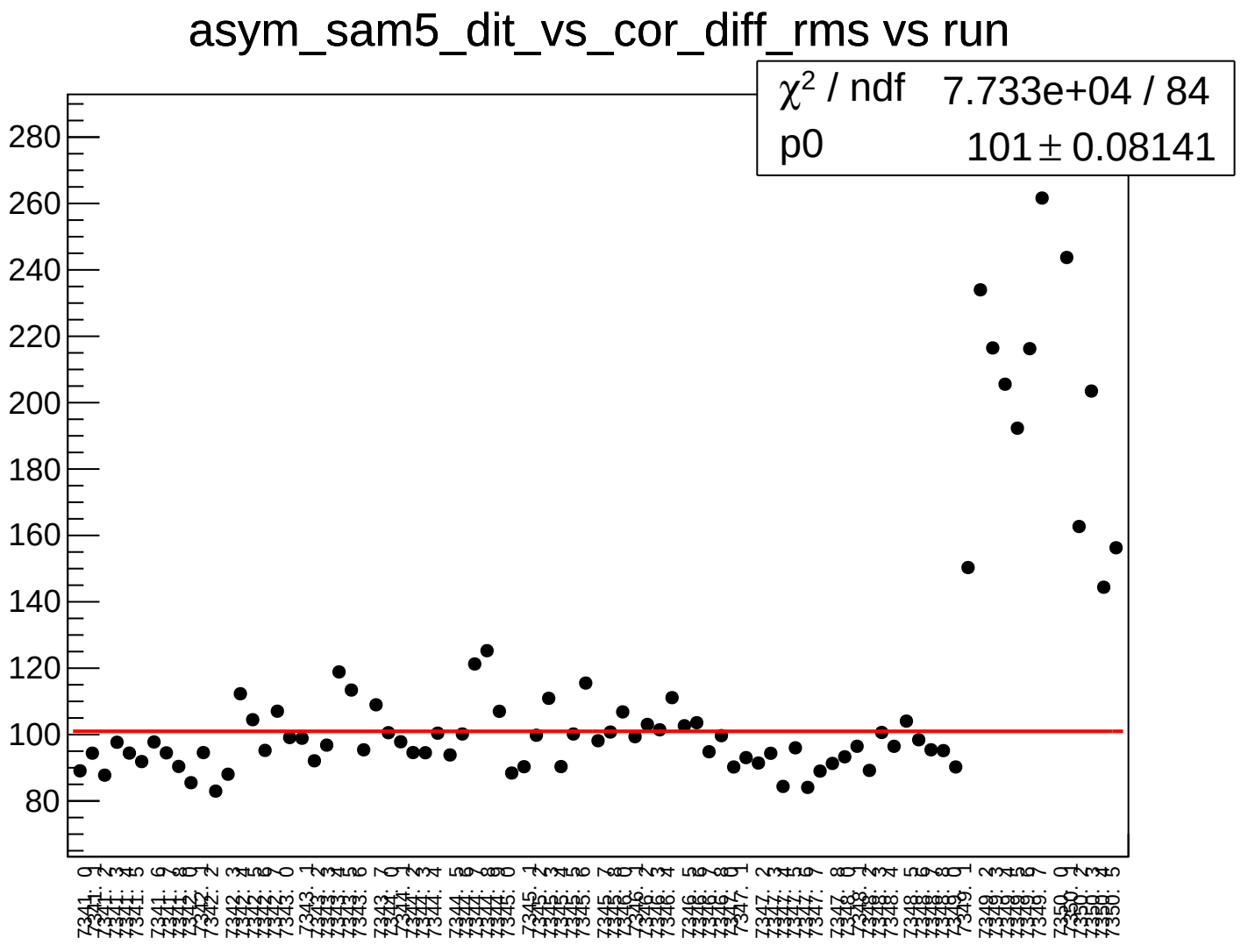

asym_sam5_rms vs run
χ² / ndf 6844 / 84
p0 1298 ± 1.023
1500
1400
1300
1200
1100

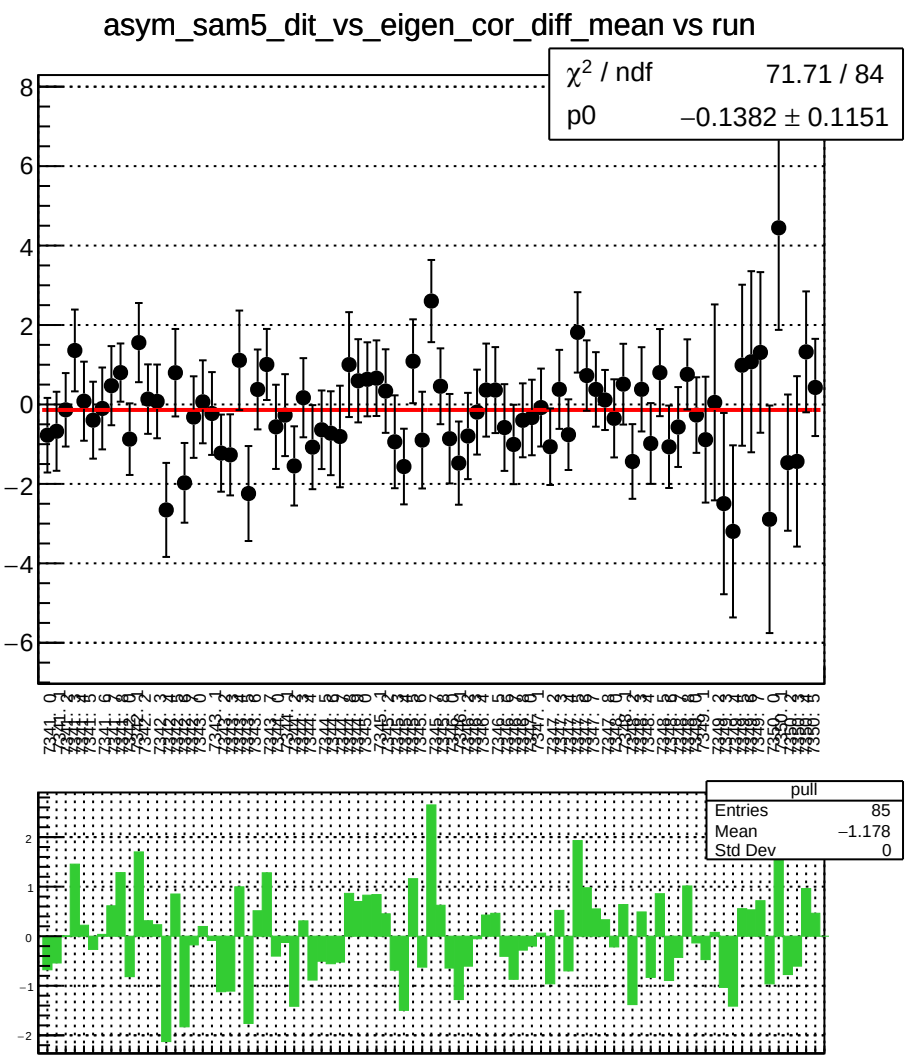

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 66.41 / 84
p0 1.964e−14 ± 4.395e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 85
Mean 63.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

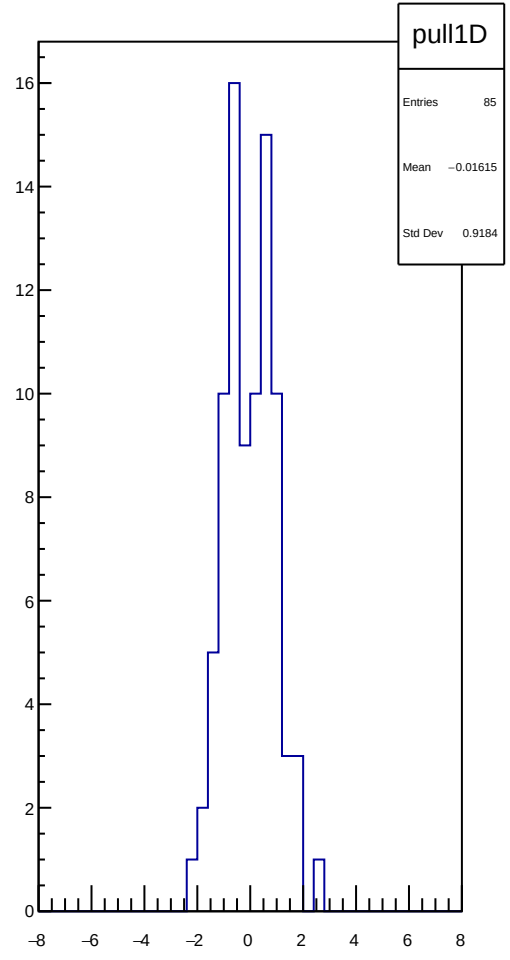

pull1D
Entries 85
Mean −0.00462
Std Dev 0.8839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

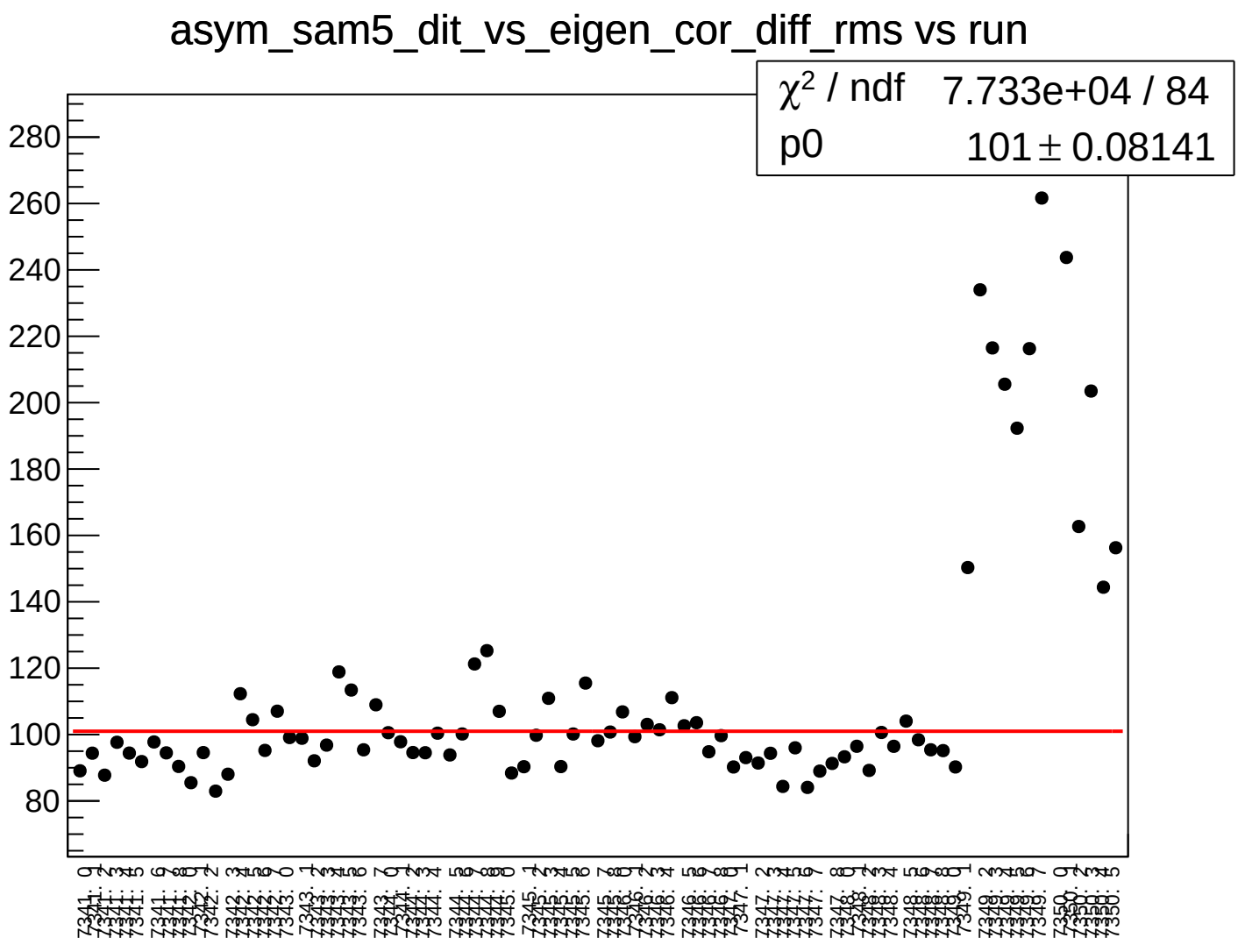

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.212e+06 / 84
p0 1.976e−11 ± 3.108e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

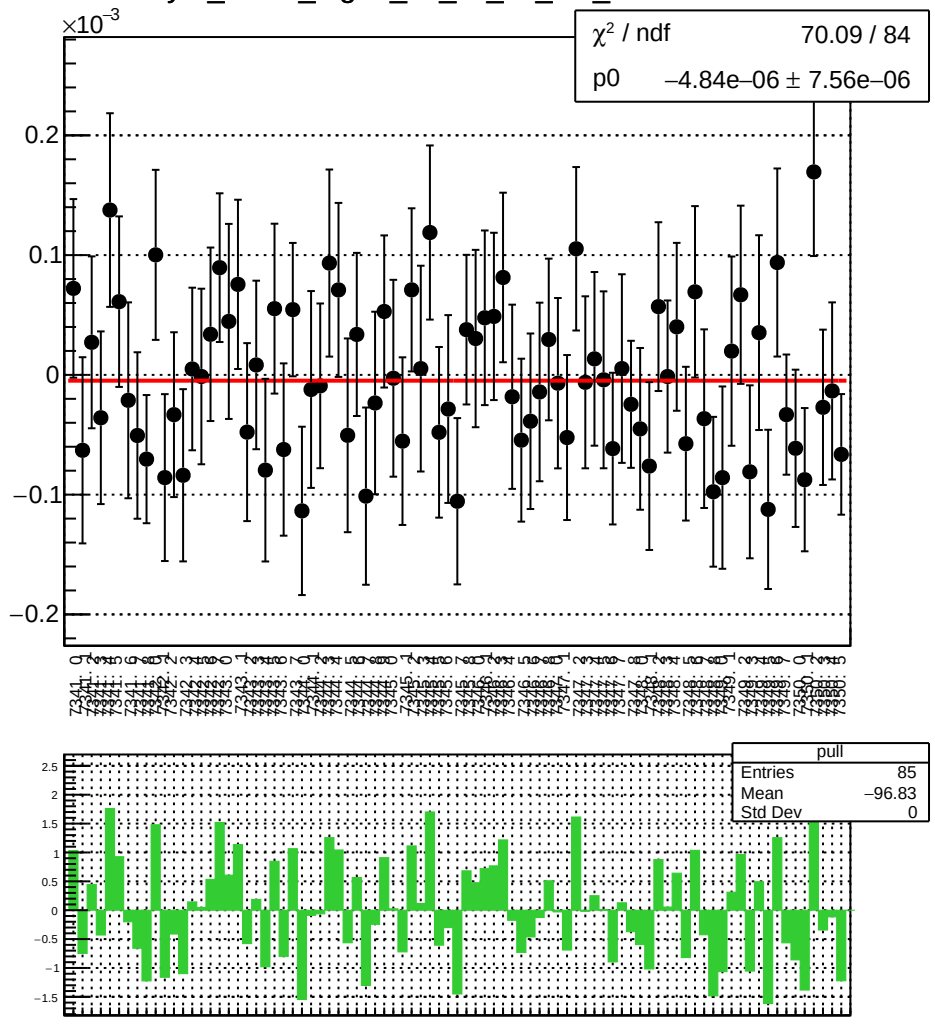

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 71.71 / 84
p0 −0.1382 ± 0.1151
pull
Entries 85
Mean −1.178
Std Dev 0
pull1D
Entries 85
Mean −0.01615
Std Dev 0.9184

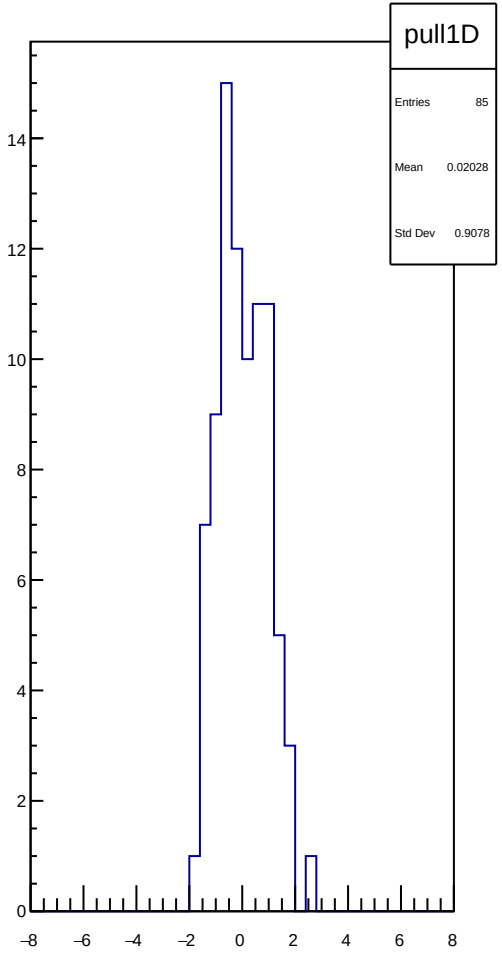

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 7.733e+04 / 84
p0 101 ± 0.08141
280
260
240
220
200
180
160
140
120
100
80

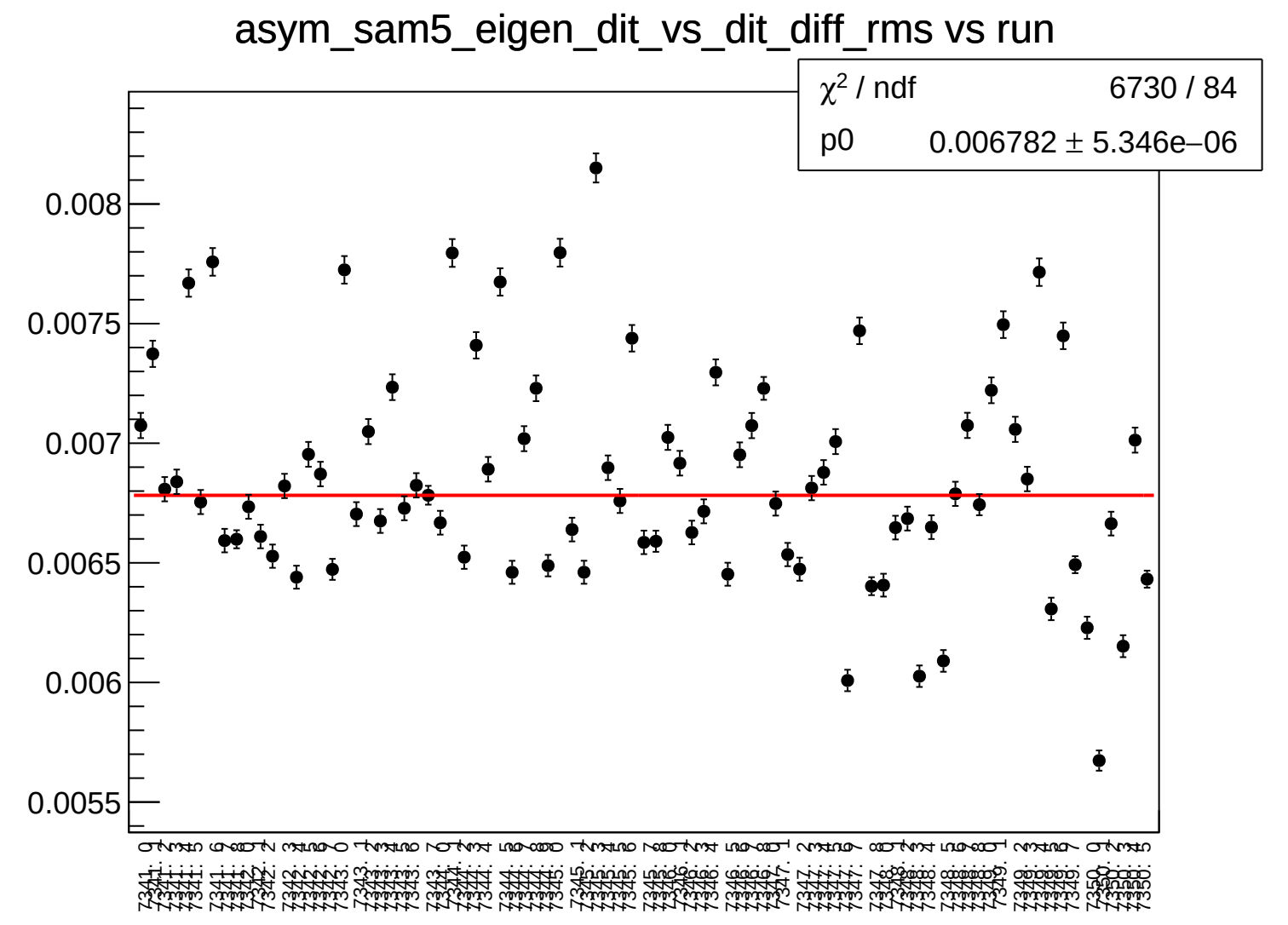

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.71 / 84
p0 −0.1382 ± 0.1151
pull
Entries 85
Mean −1.178
Std Dev 0

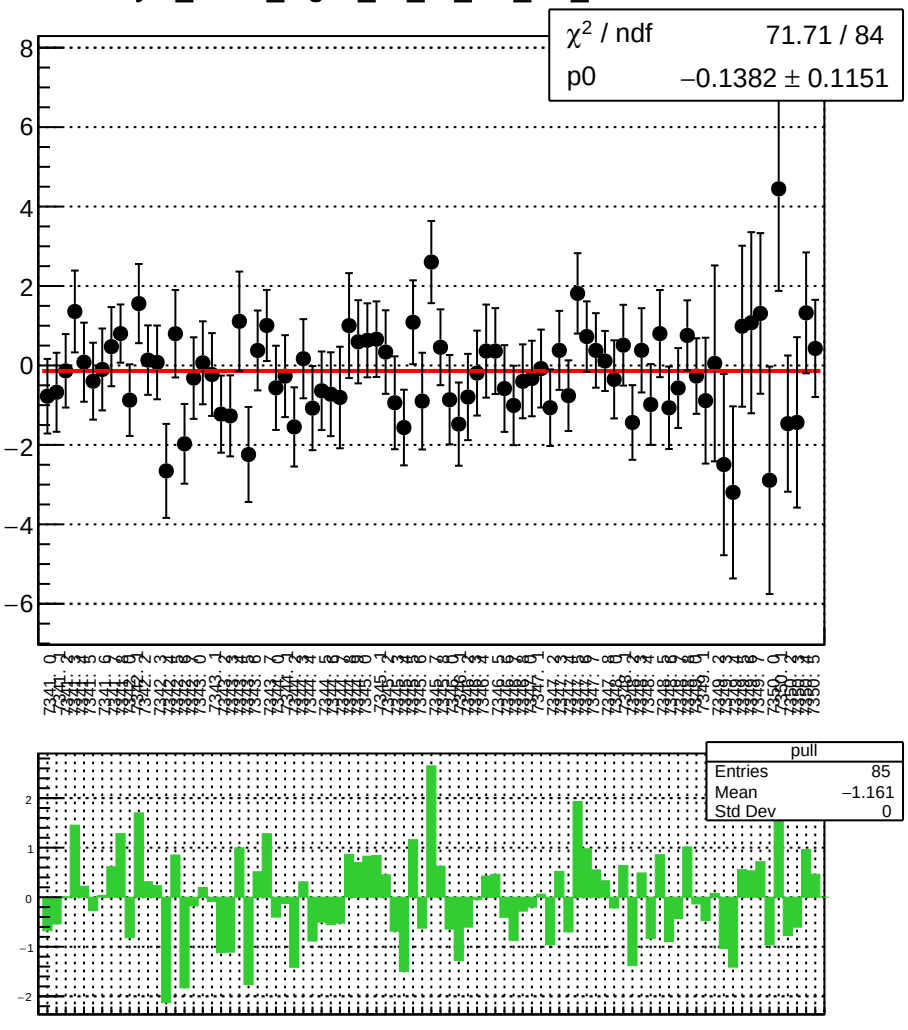

pull1D
Entries 85
Mean −0.01615
Std Dev 0.9184

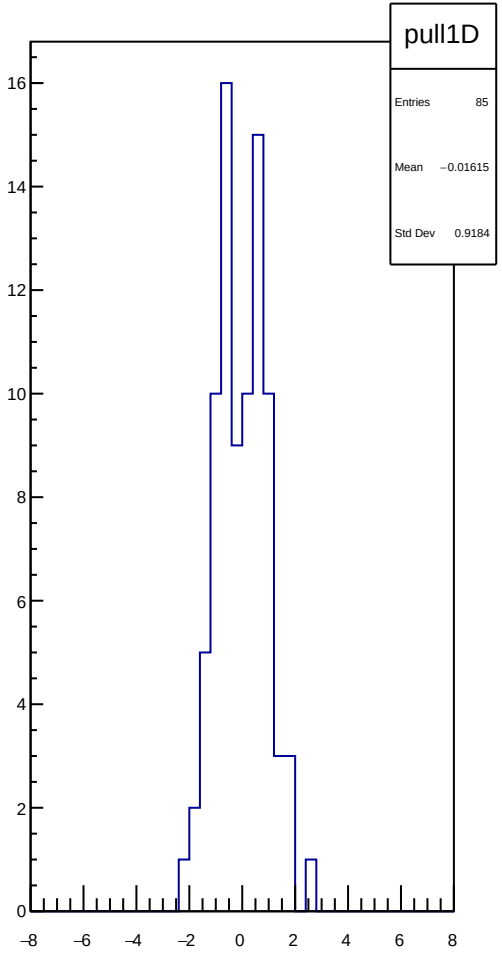

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.733e+04 / 84
p0 101 ± 0.08141
280
260
240
220
200
180
160
140
120
100
80

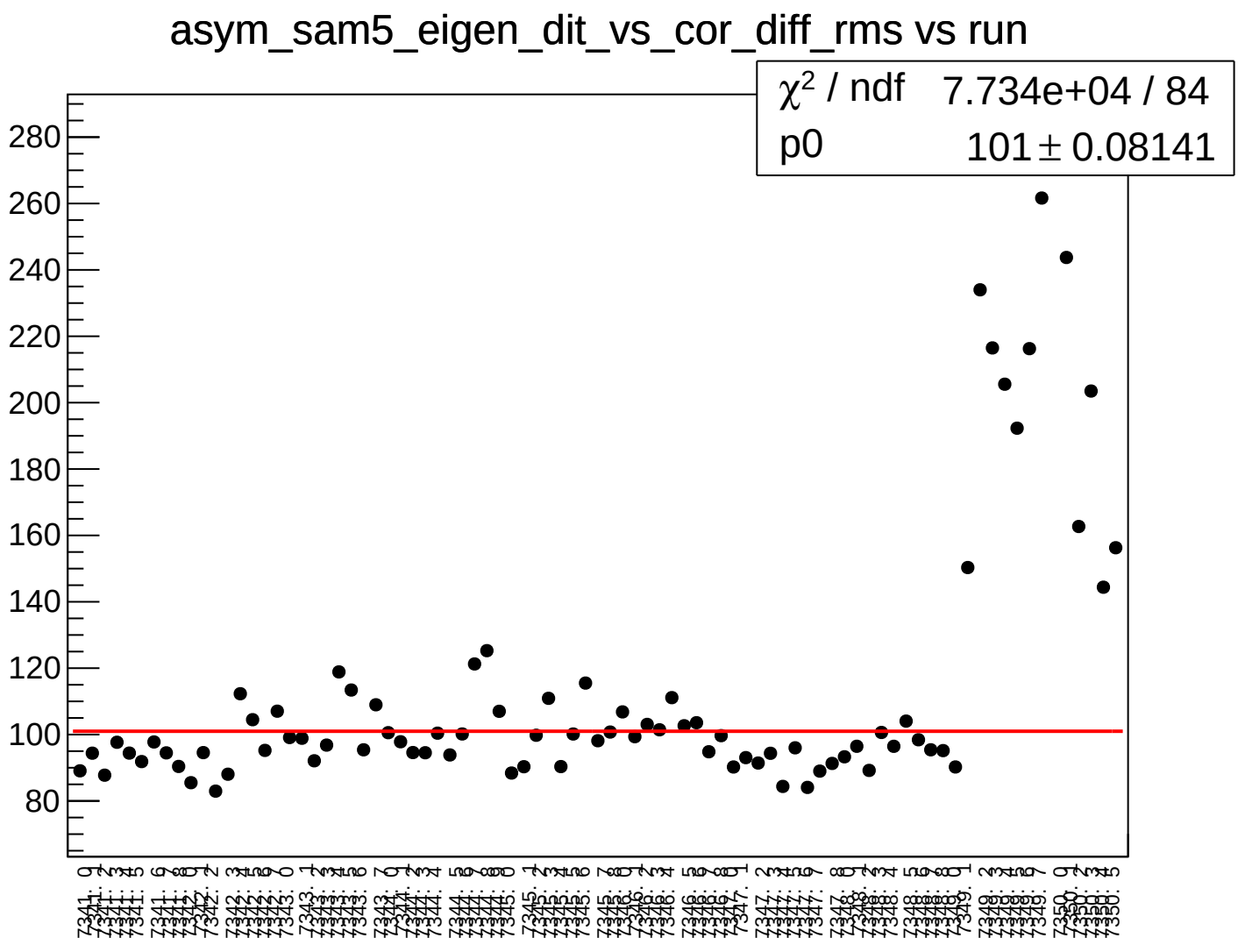

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.09 / 84
p0 −4.84e−06 ± 7.56e−06
pull
Entries 85
Mean −96.83
Std Dev 0

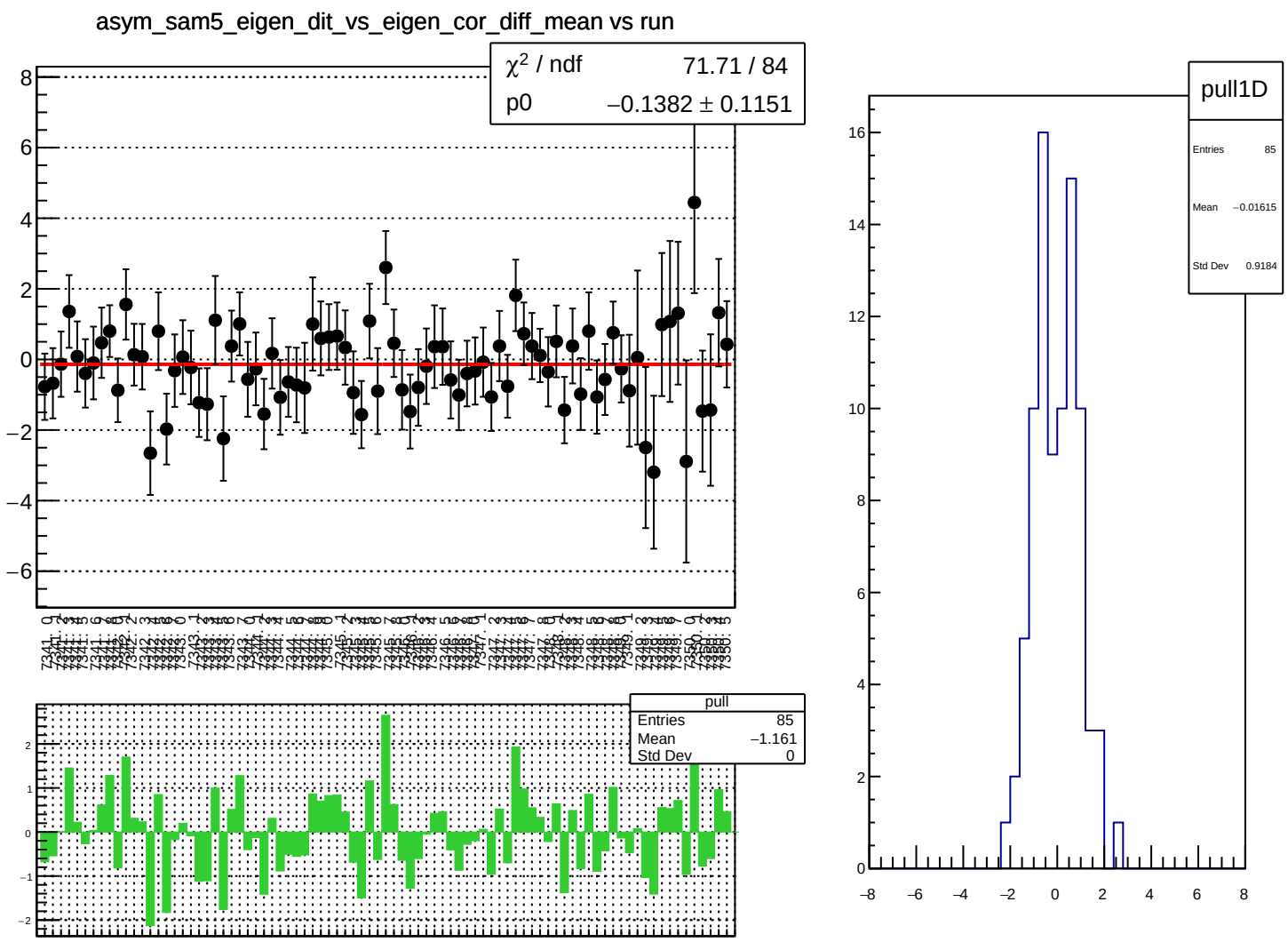

pull1D
Entries 85
Mean 0.02028
Std Dev 0.9078

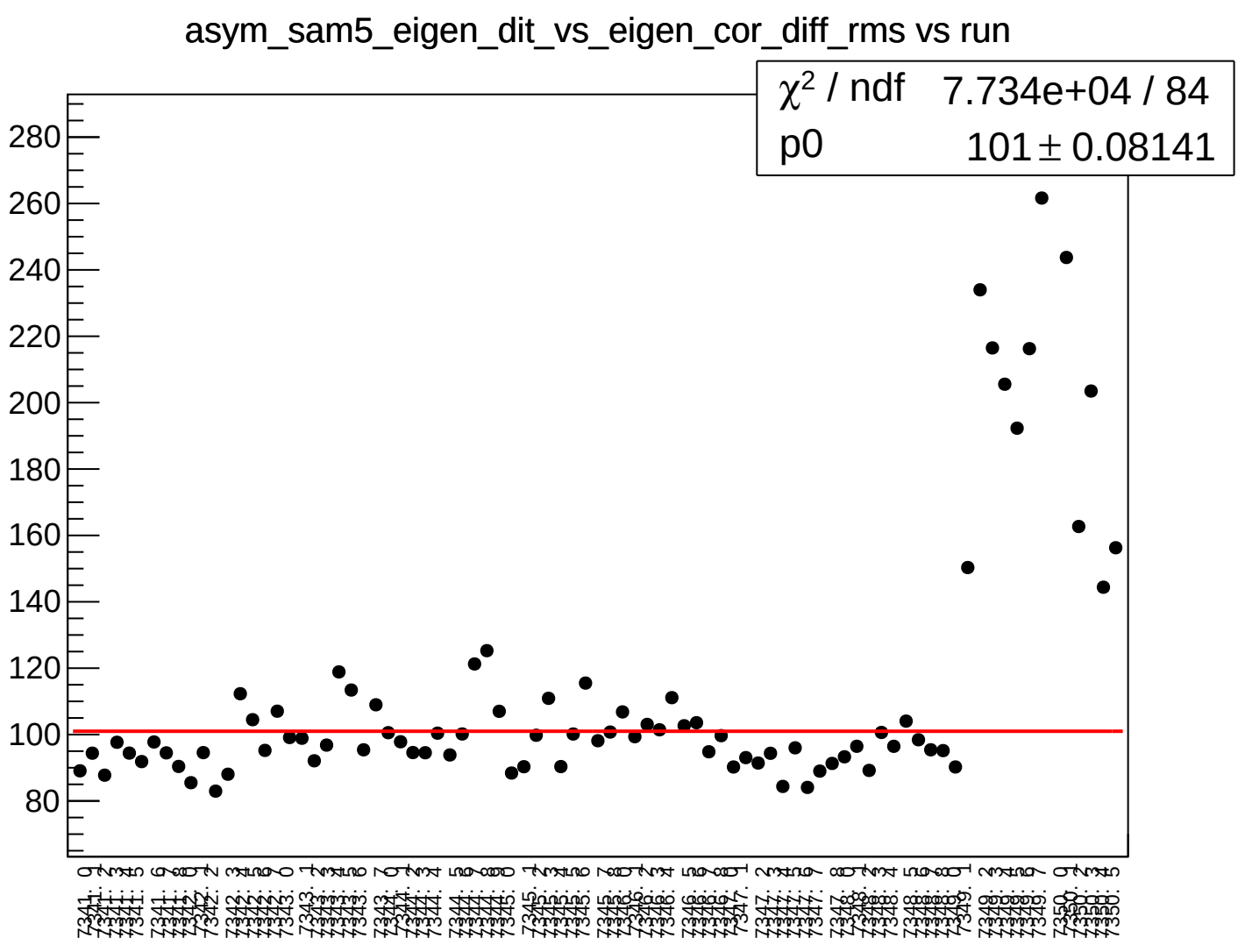

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6730 / 84
p0 0.006782 ± 5.346e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

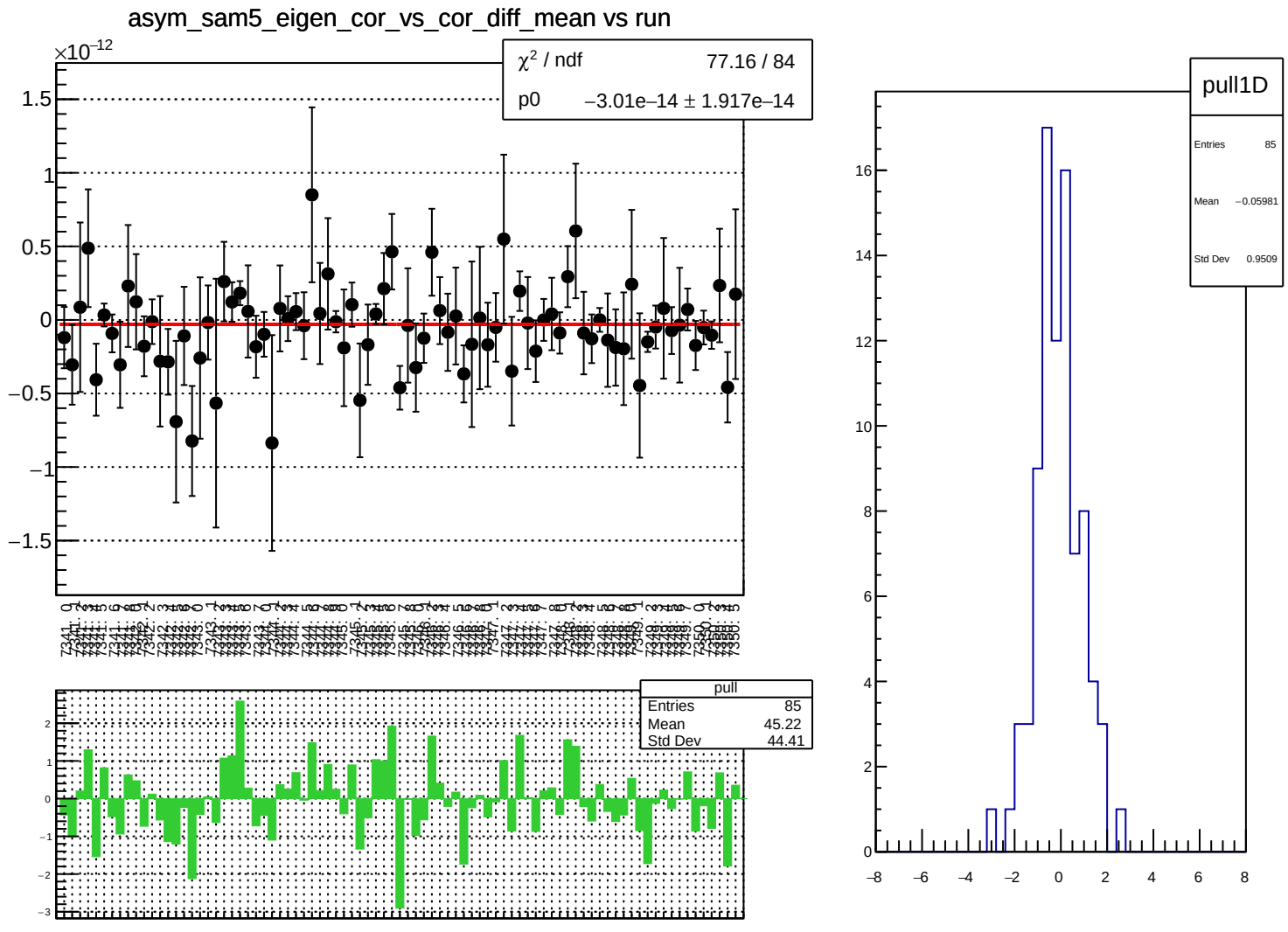

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.71 / 84
p0 −0.1382 ± 0.1151
pull
Entries 85
Mean −1.161
Std Dev 0

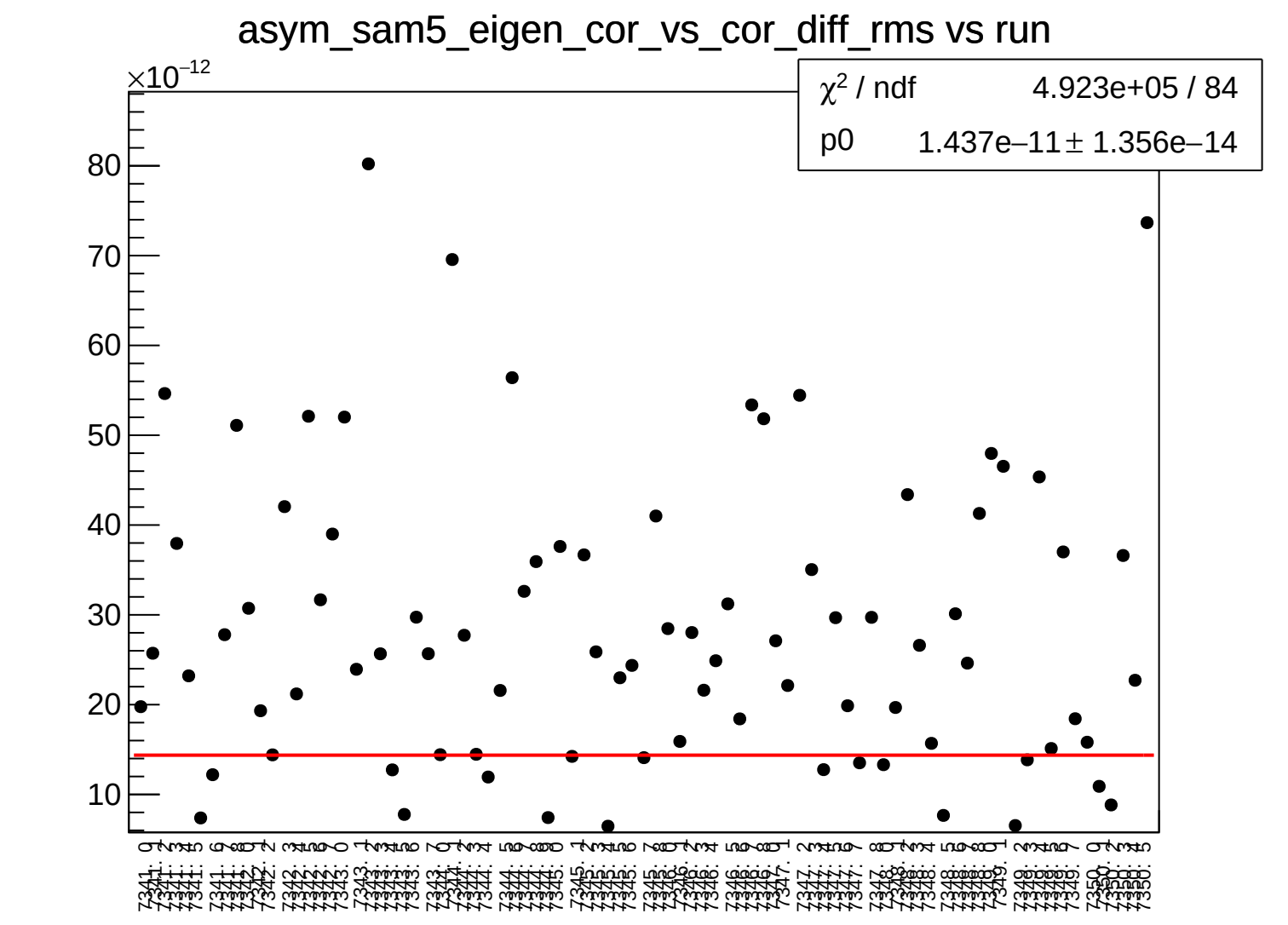

pull1D
Entries 85
Mean −0.01615
Std Dev 0.9184

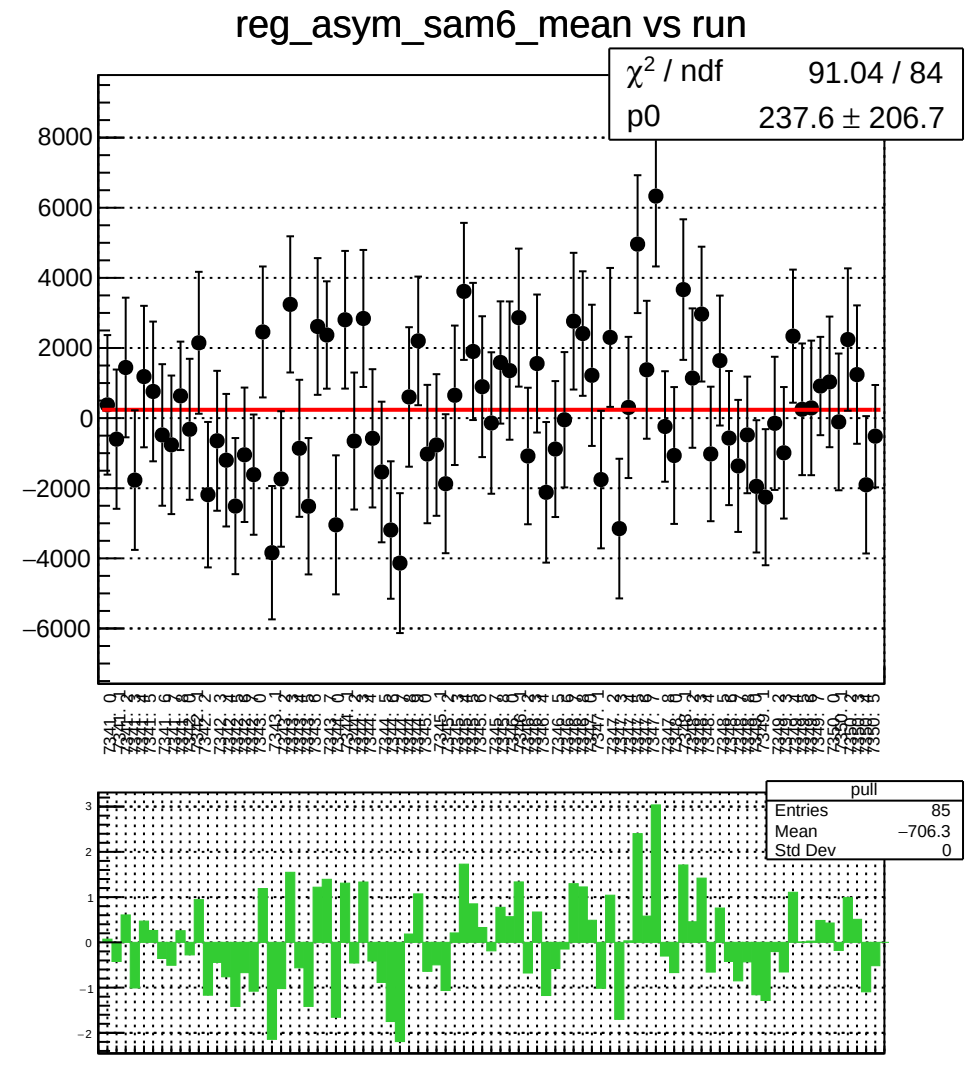

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.734e+04 / 84
p0 101 ± 0.08141
280
260
240
220
200
180
160
140
120
100
80

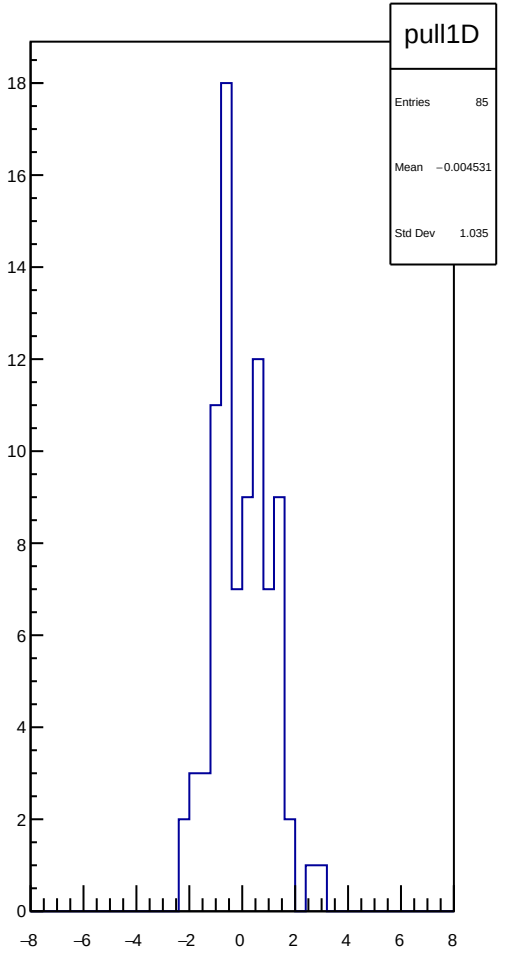

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.71 / 84
p0 −0.1382 ± 0.1151
pull
Entries 85
Mean −1.161
Std Dev 0
pull1D
Entries 85
Mean −0.01615
Std Dev 0.9184

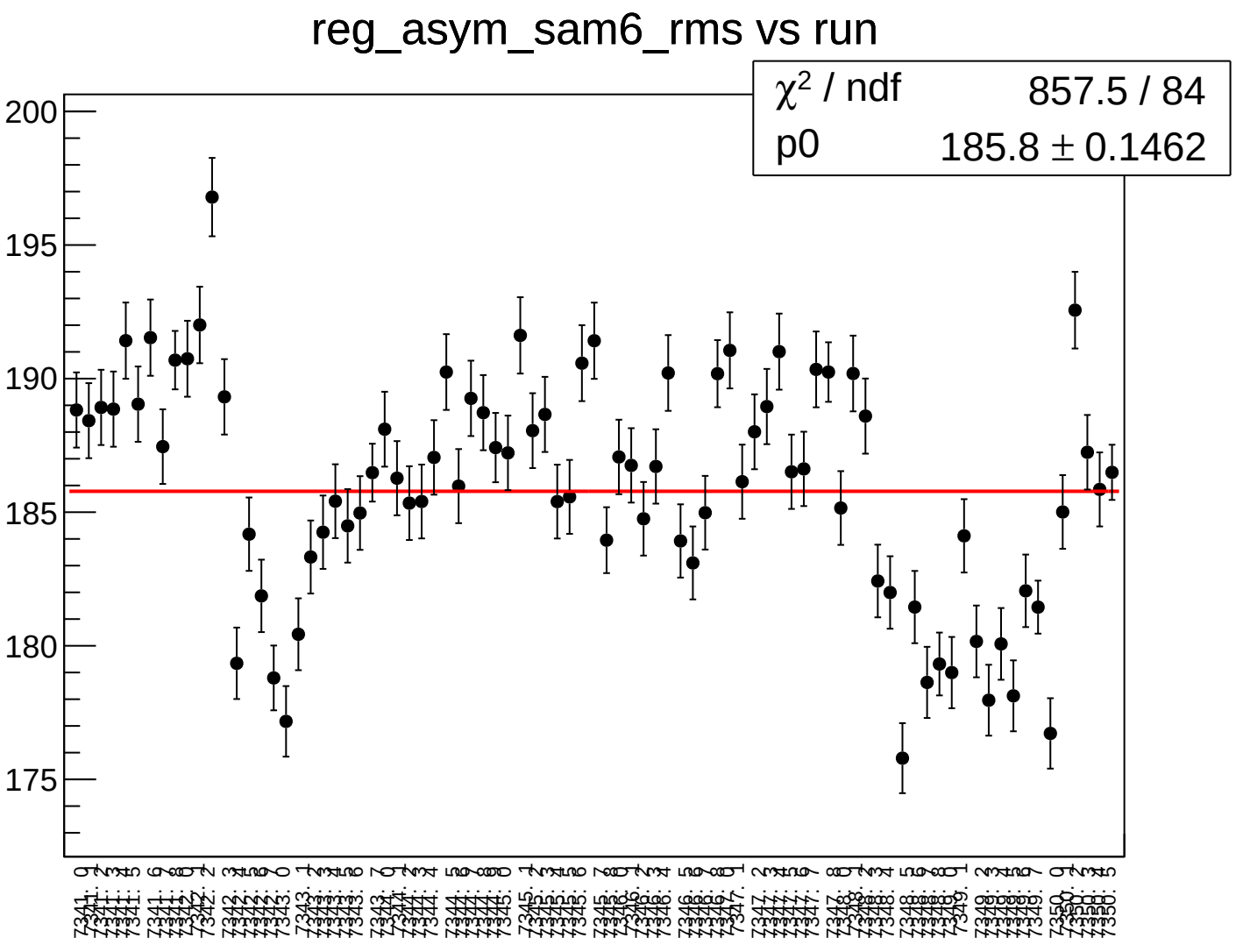

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.734e+04 / 84
p0 101 ± 0.08141
280
260
240
220
200
180
160
140
120
100
80

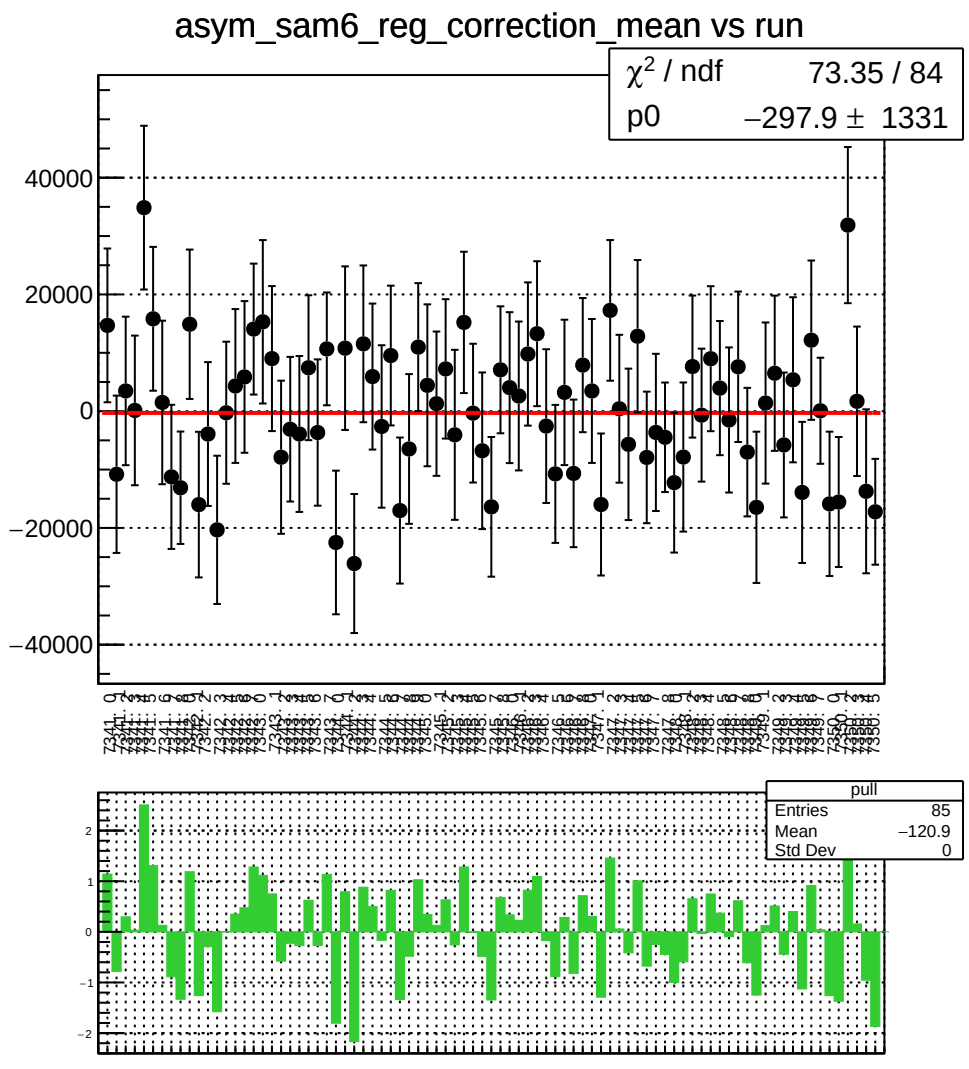

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.16 / 84
p0 −3.01e−14 ± 1.917e−14
pull
Entries 85
Mean 45.22
Std Dev 44.41
pull1D
Entries 85
Mean −0.05981
Std Dev 0.9509

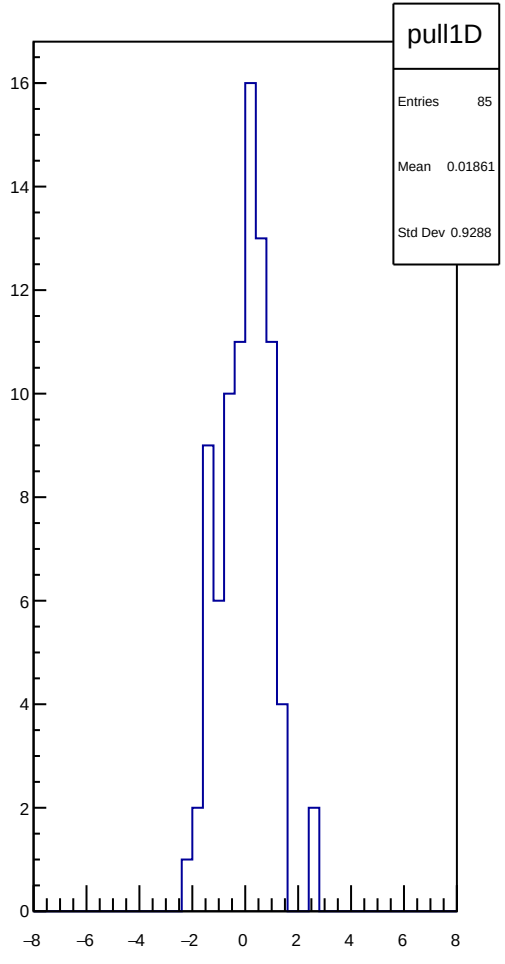

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.923e+05 / 84
p0 1.437e−11 ± 1.356e−14
80
70
60
50
40
30
20
10

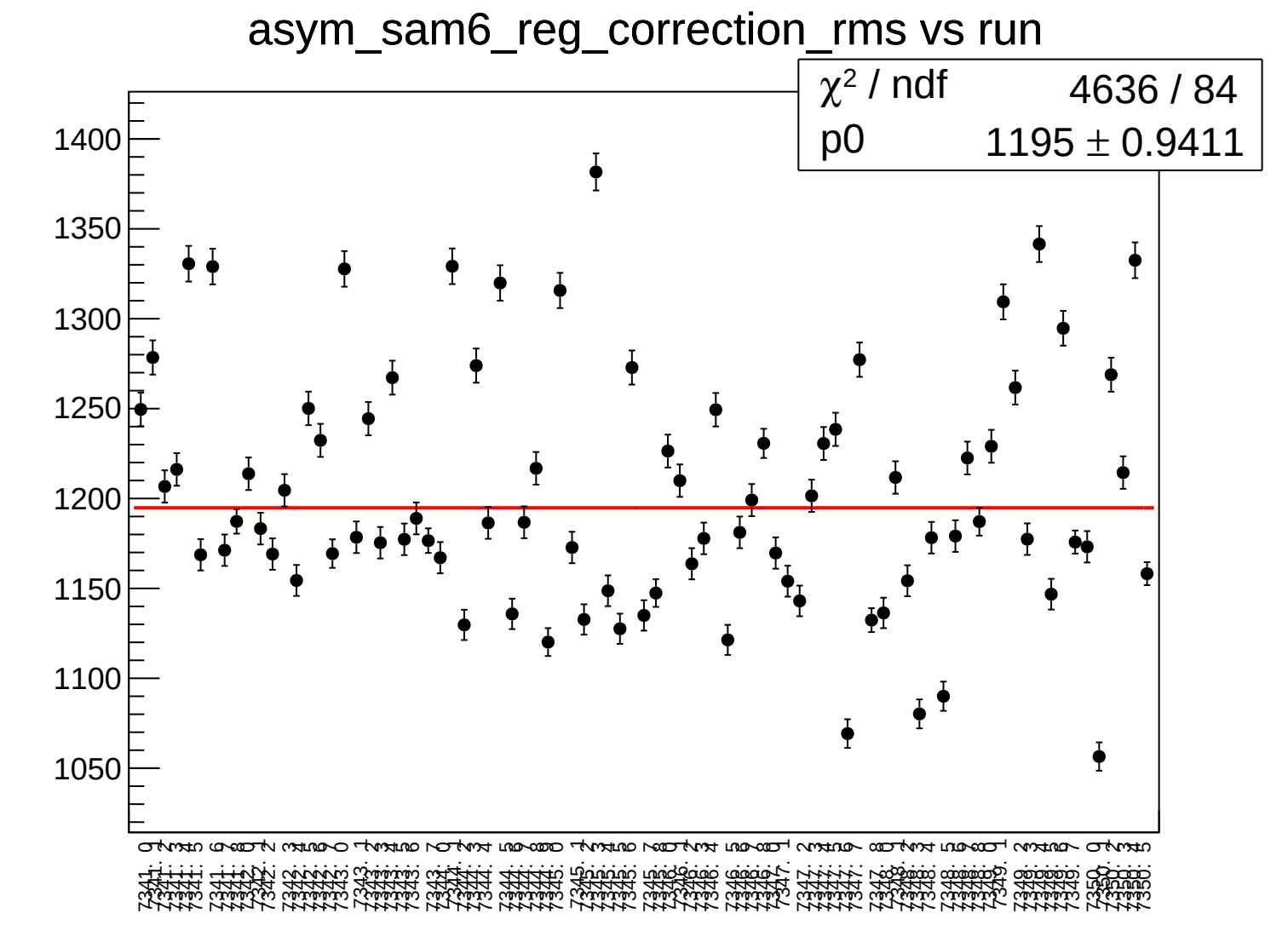

reg_asym_sam6_mean vs run
χ² / ndf 91.04 / 84
p0 237.6 ± 206.7
pull
Entries 85
Mean −706.3
Std Dev 0

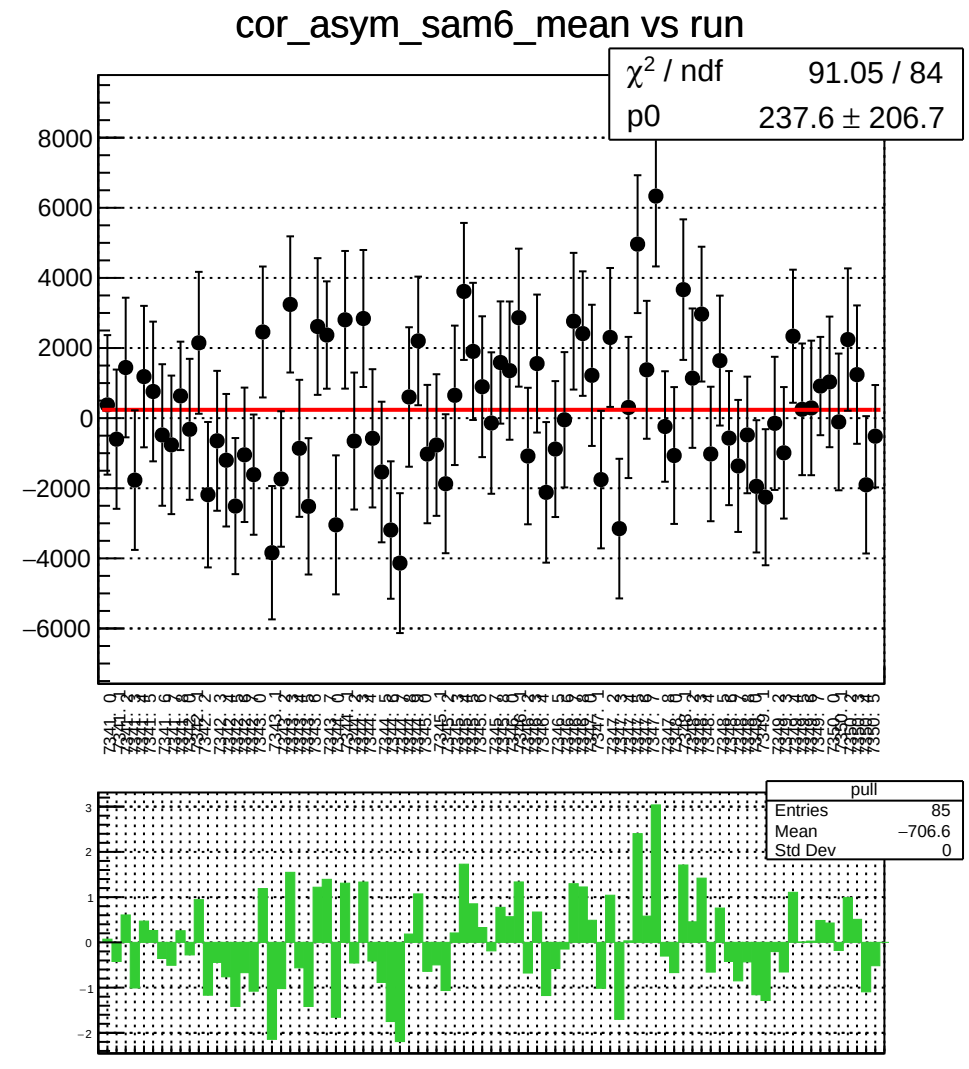

pull1D
Entries 85
Mean −0.004531
Std Dev 1.035

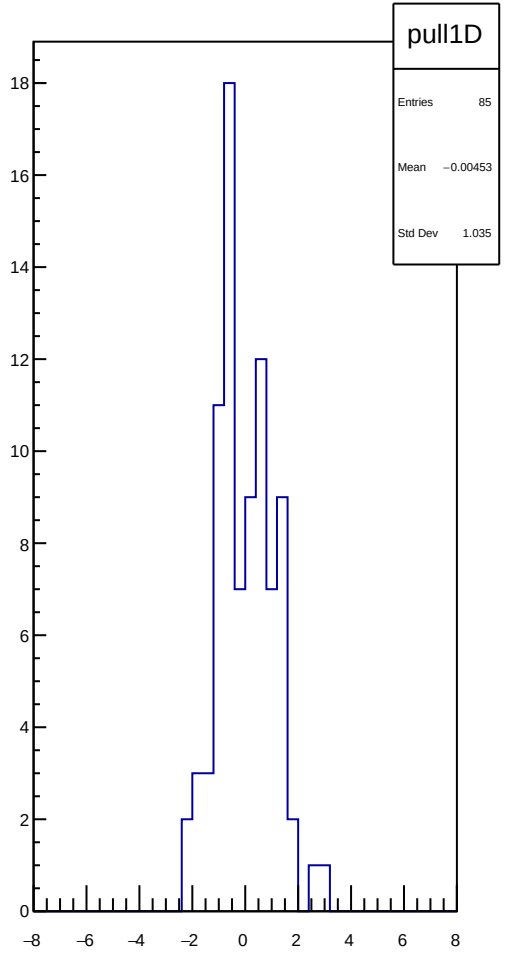

reg_asym_sam6_rms vs run
χ² / ndf 857.5 / 84
p0 185.8 ± 0.1462
200
195
190
185
180
175

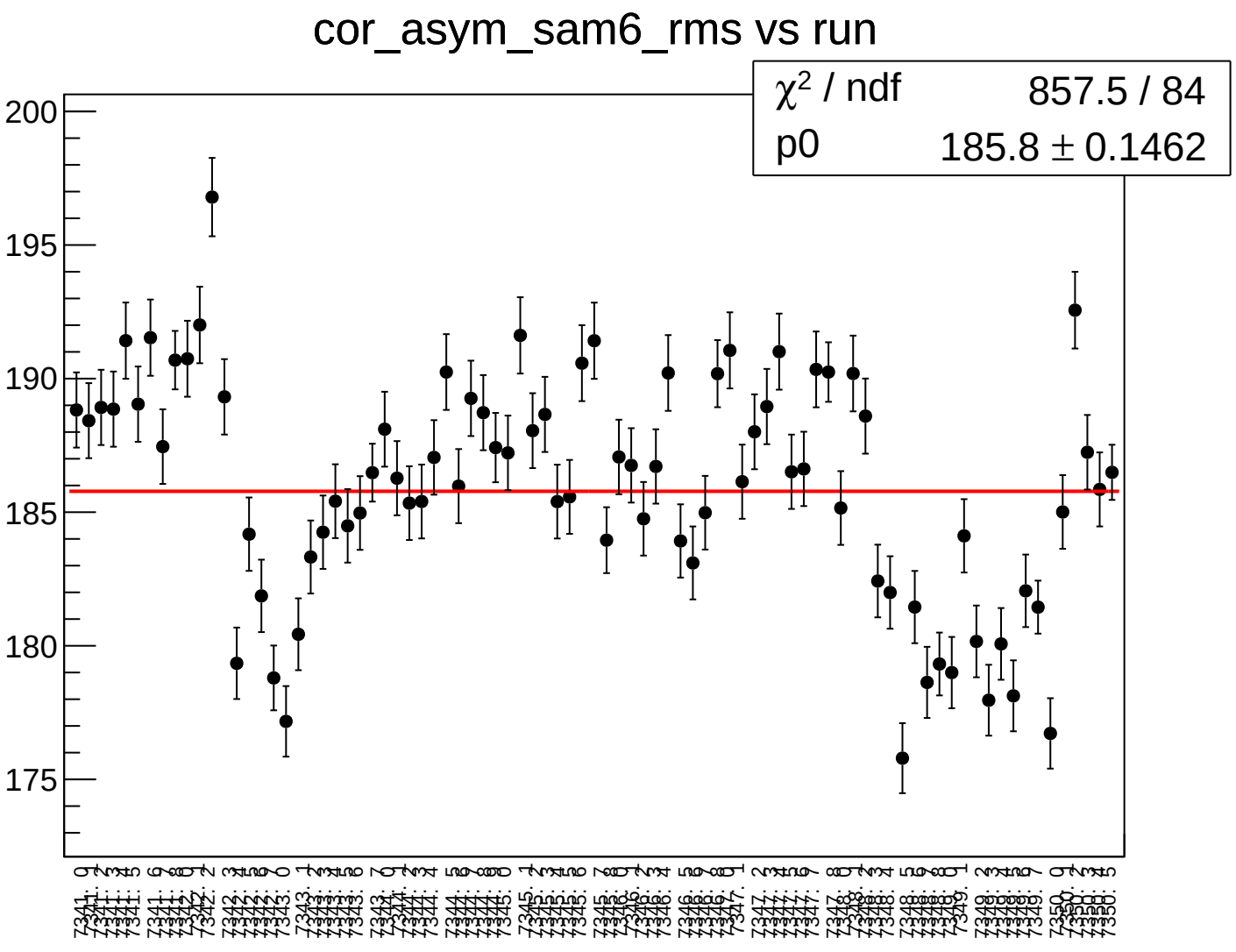

asym_sam6_reg_correction_mean vs run
χ² / ndf 73.35 / 84
p0 −297.9 ± 1331
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −120.9
Std Dev 0
2
1
0
−1
−2

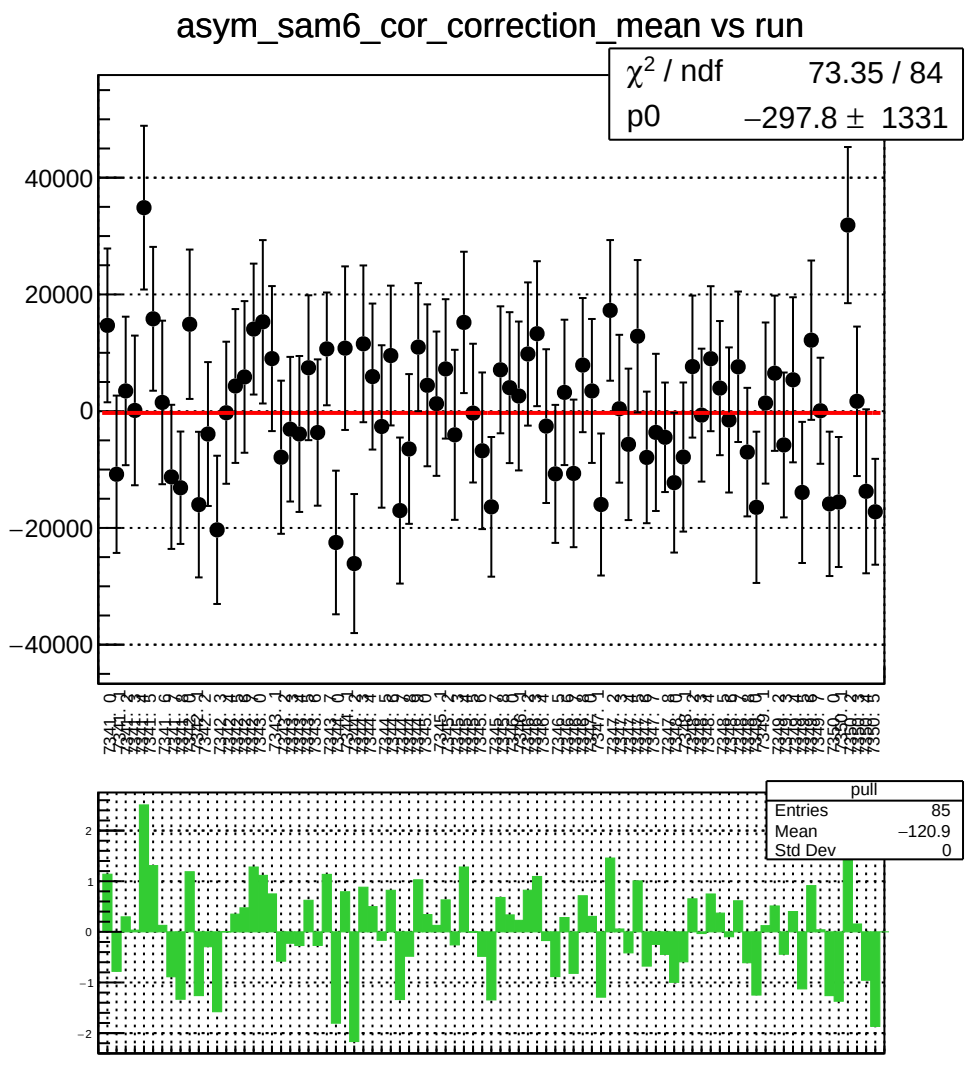

pull1D
Entries 85
Mean 0.01861
Std Dev 0.9288
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

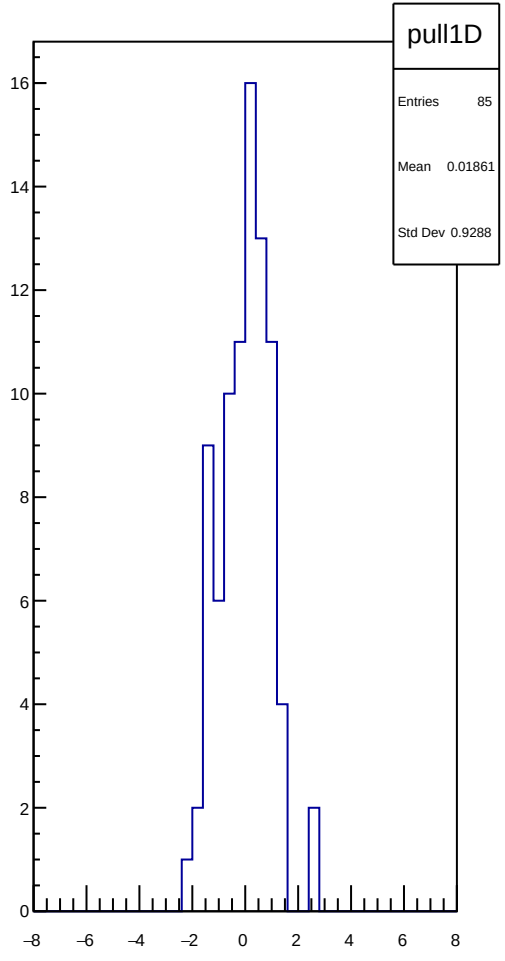

asym_sam6_reg_correction_rms vs run
χ² / ndf 4636 / 84
p0 1195 ± 0.9411
1400
1350
1300
1250
1200
1150
1100
1050

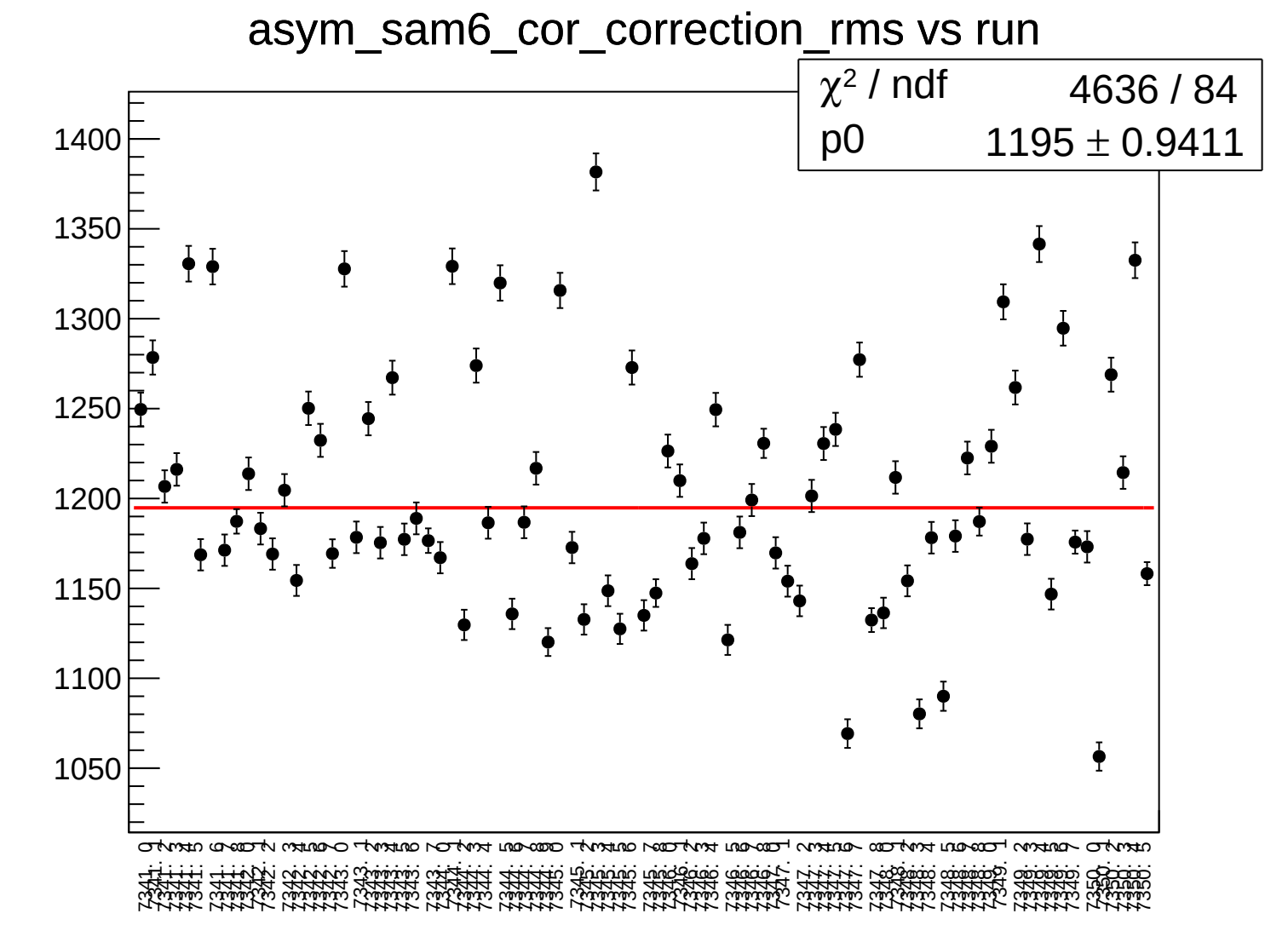

cor_asym_sam6_mean vs run
χ² / ndf 91.05 / 84
p0 237.6 ± 206.7
pull
Entries 85
Mean −706.6
Std Dev 0

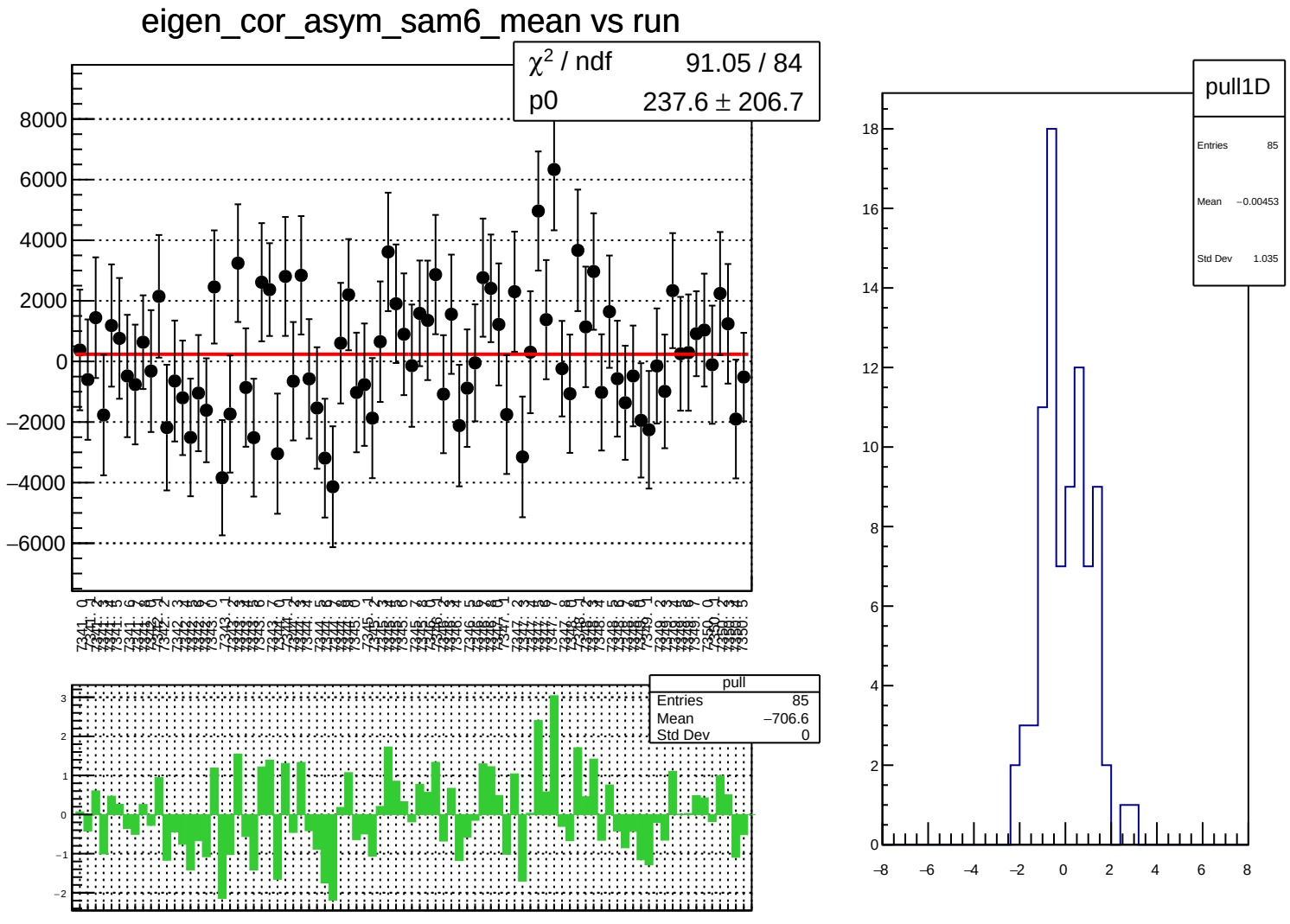

pull1D
Entries 85
Mean −0.00453
Std Dev 1.035

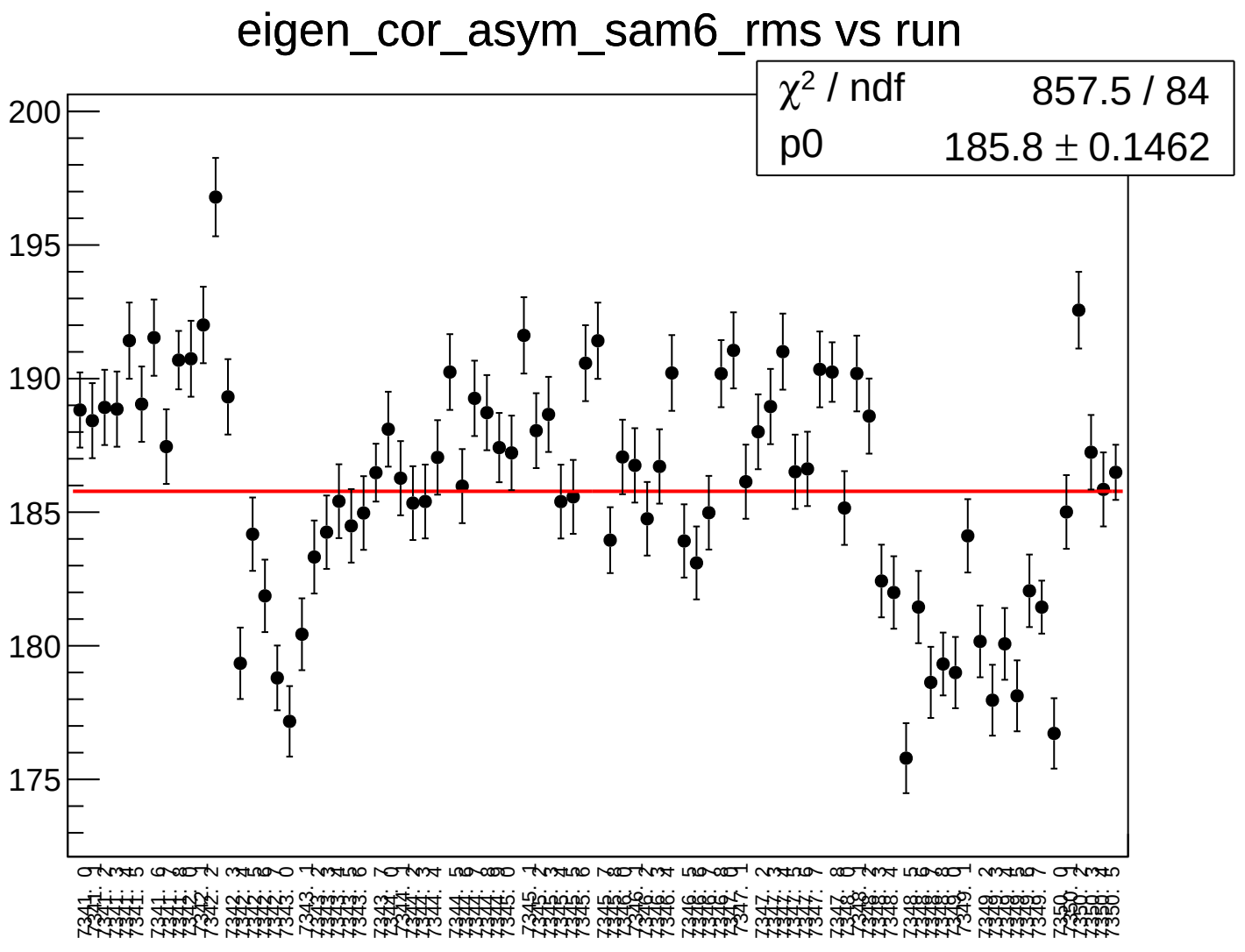

cor_asym_sam6_rms vs run
χ² / ndf 857.5 / 84
p0 185.8 ± 0.1462
200
195
190
185
180
175

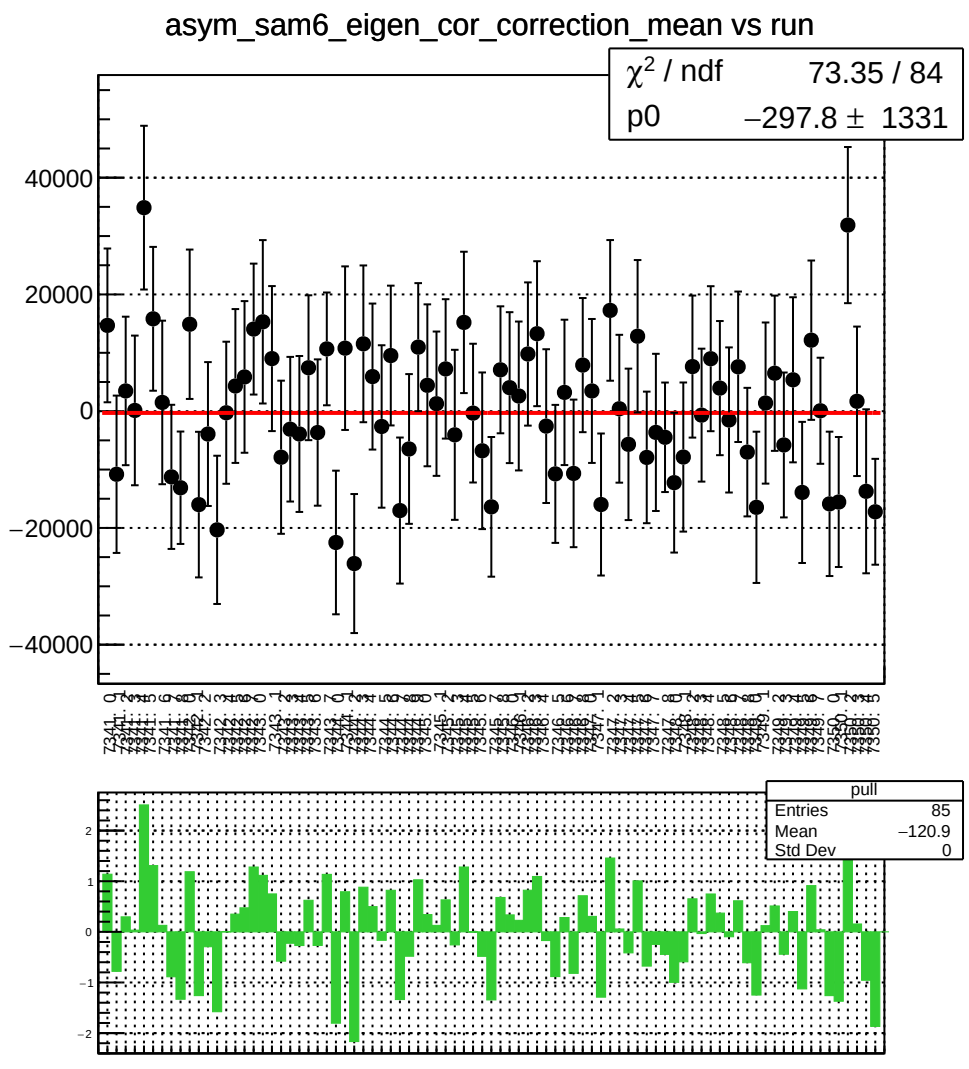

asym_sam6_cor_correction_mean vs run
χ² / ndf 73.35 / 84
p0 −297.8 ± 1331
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −120.9
Std Dev 0
2
1
0
−1
−2

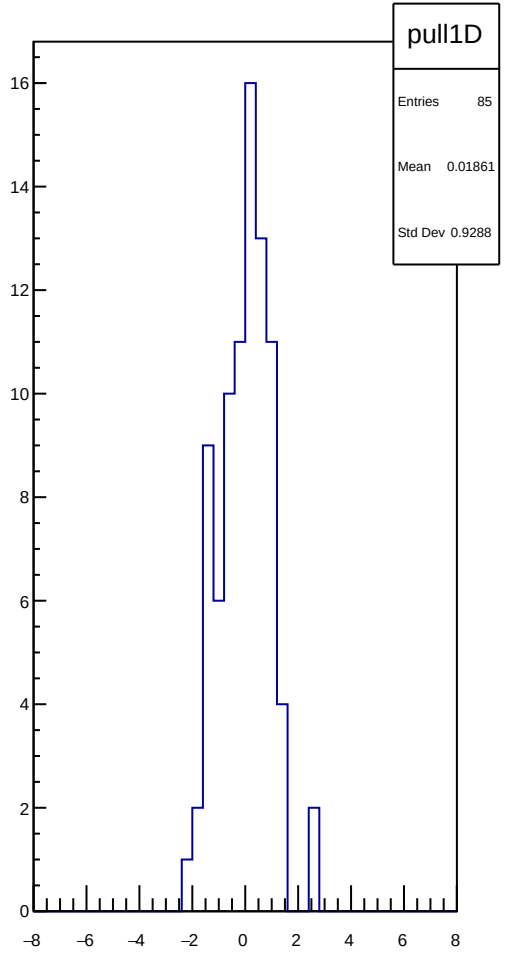

pull1D
Entries 85
Mean 0.01861
Std Dev 0.9288
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

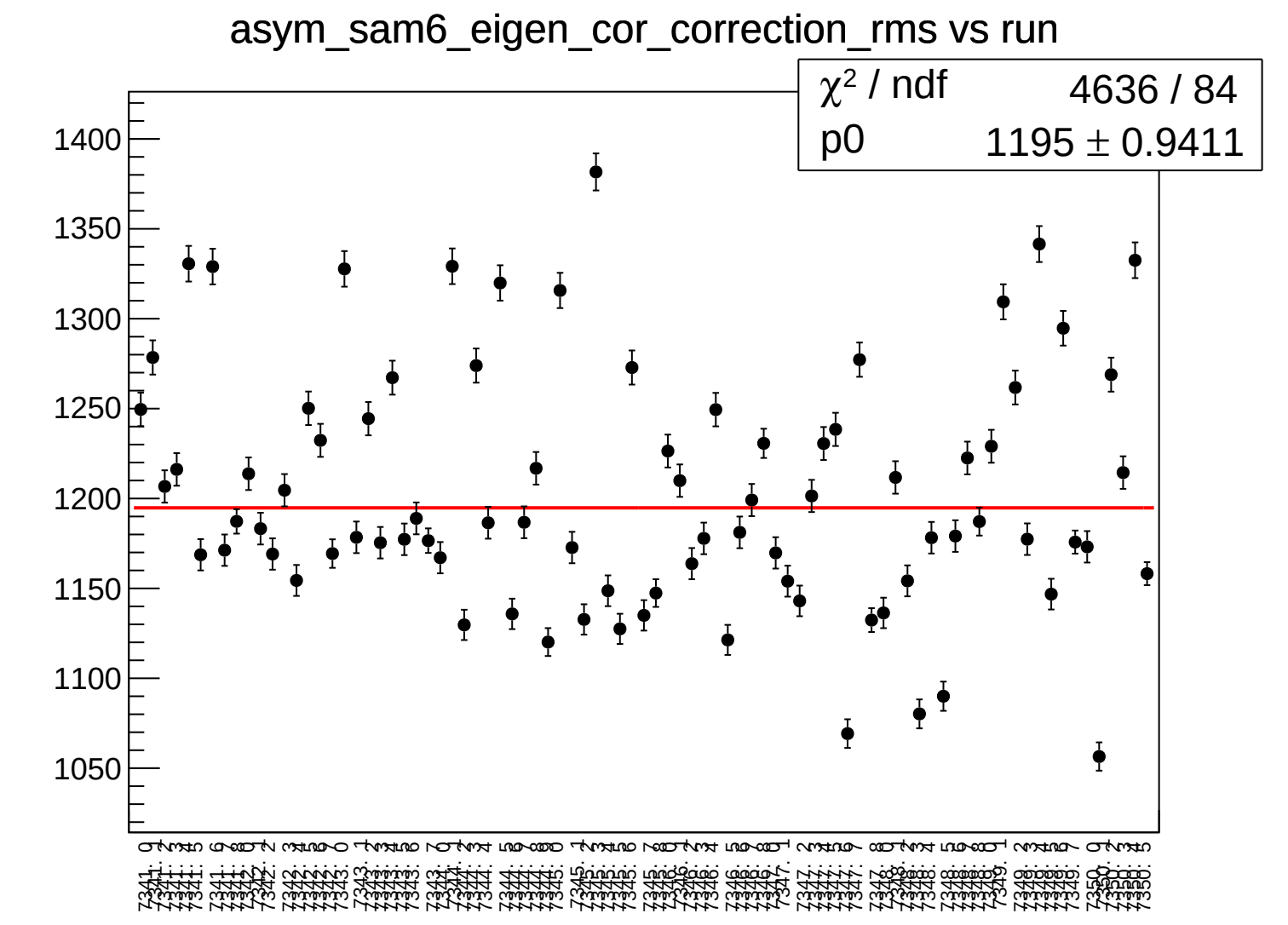

asym_sam6_cor_correction_rms vs run
χ² / ndf 4636 / 84
p0 1195 ± 0.9411
1400
1350
1300
1250
1200
1150
1100
1050

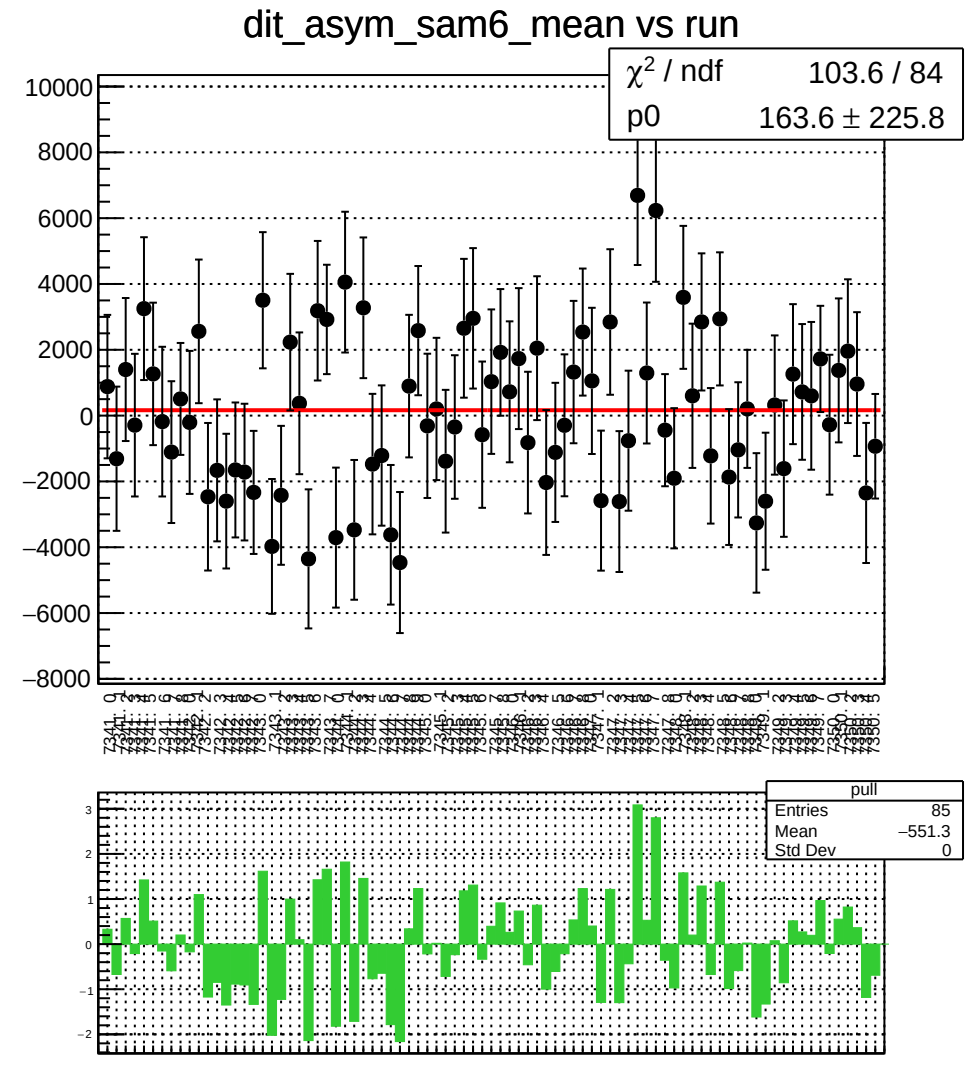

eigen_cor_asym_sam6_mean vs run
χ² / ndf 91.05 / 84
p0 237.6 ± 206.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −706.6
Std Dev 0
pull1D
Entries 85
Mean −0.00453
Std Dev 1.035

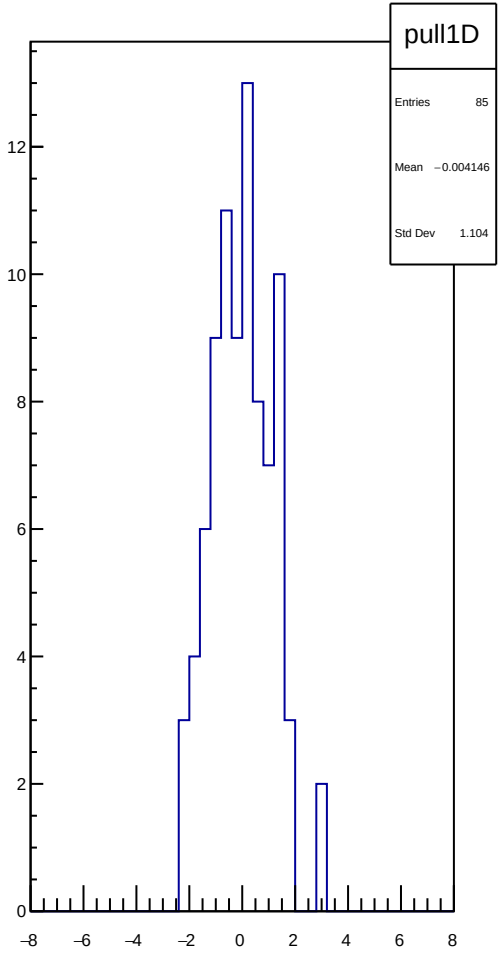

eigen_cor_asym_sam6_rms vs run
χ² / ndf 857.5 / 84
p0 185.8 ± 0.1462
200
195
190
185
180
175

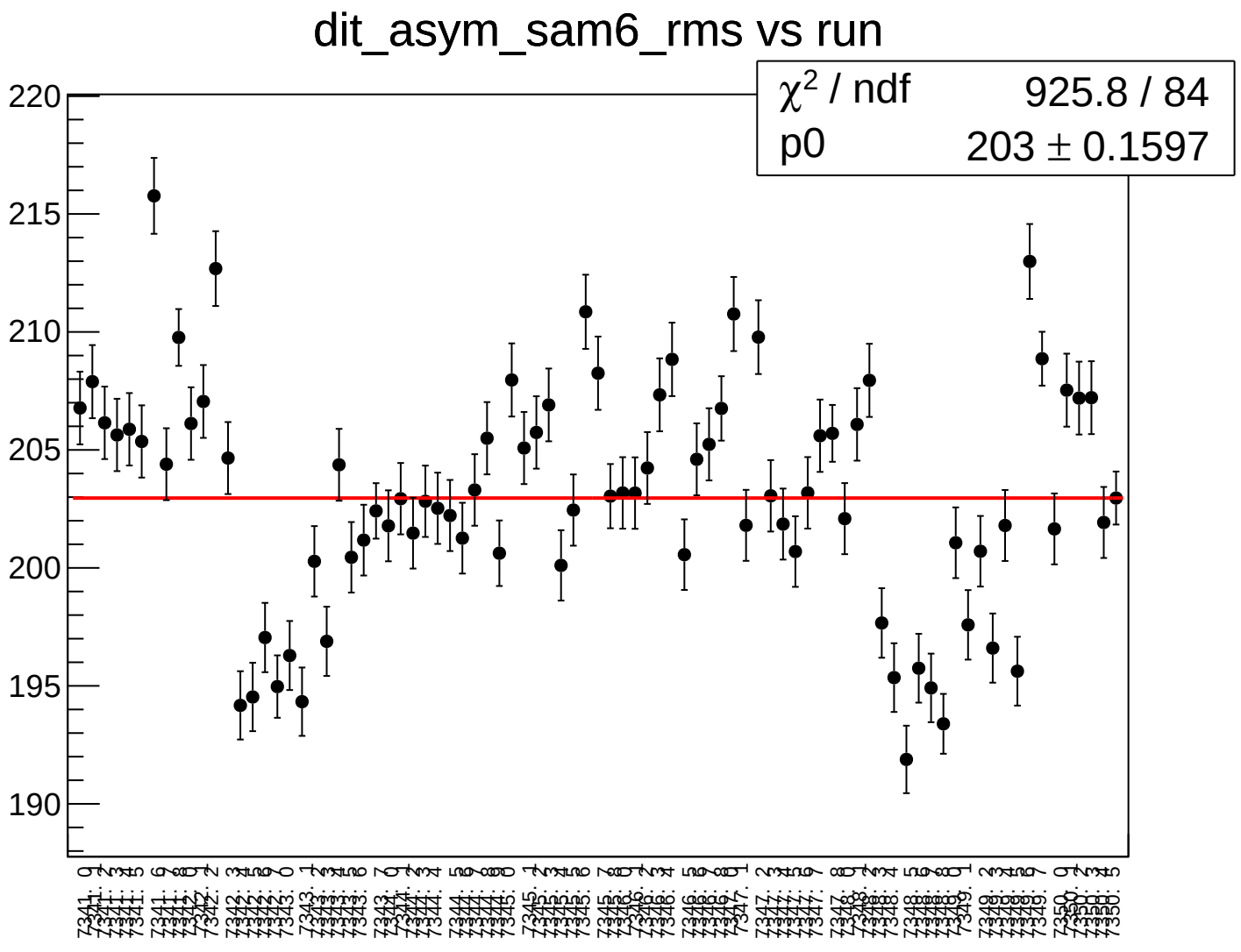

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 73.35 / 84
p0 −297.8 ± 1331
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −120.9
Std Dev 0
2
1
0
−1
−2

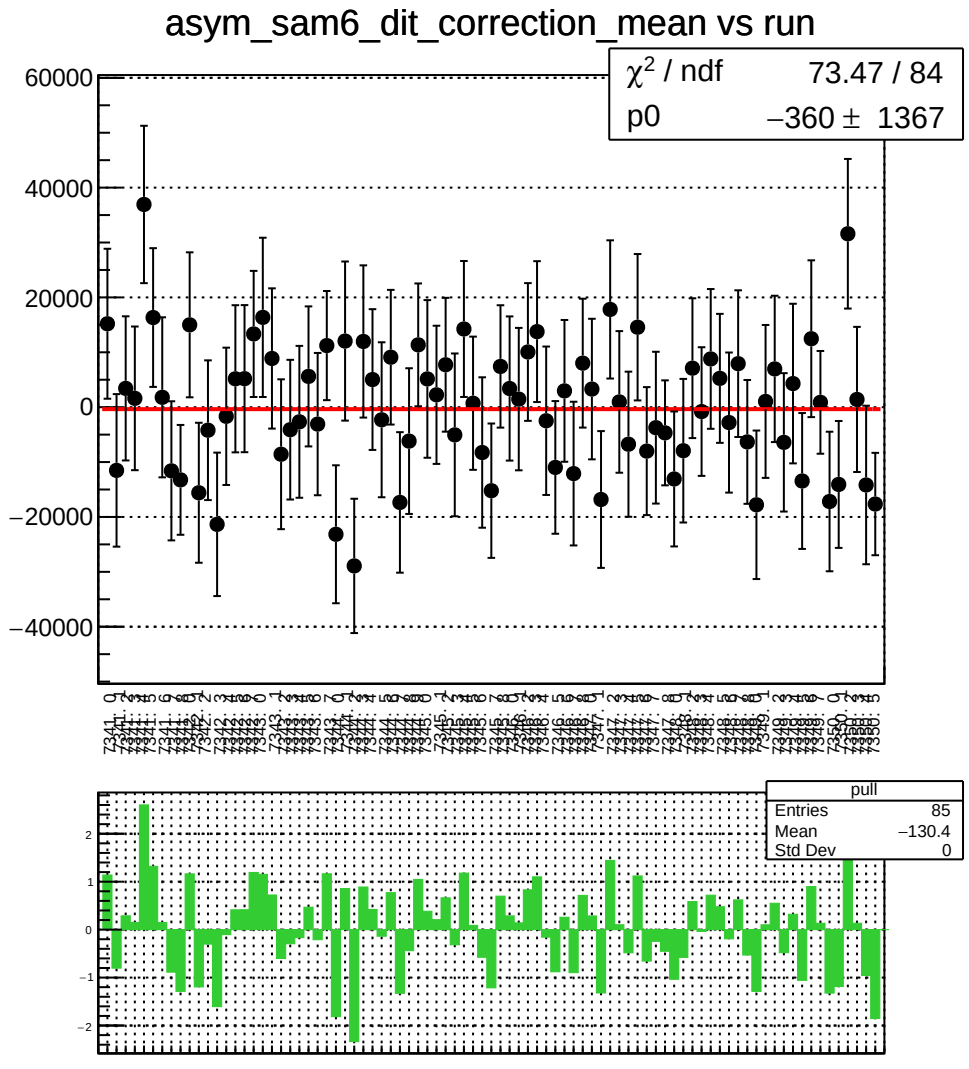

pull1D
Entries 85
Mean 0.01861
Std Dev 0.9288
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

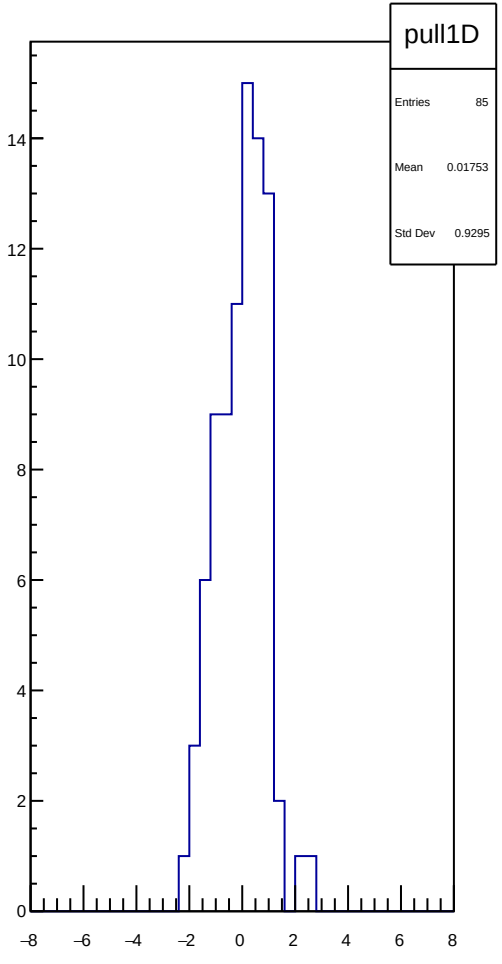

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 4636 / 84
p0 1195 ± 0.9411
1400
1350
1300
1250
1200
1150
1100
1050

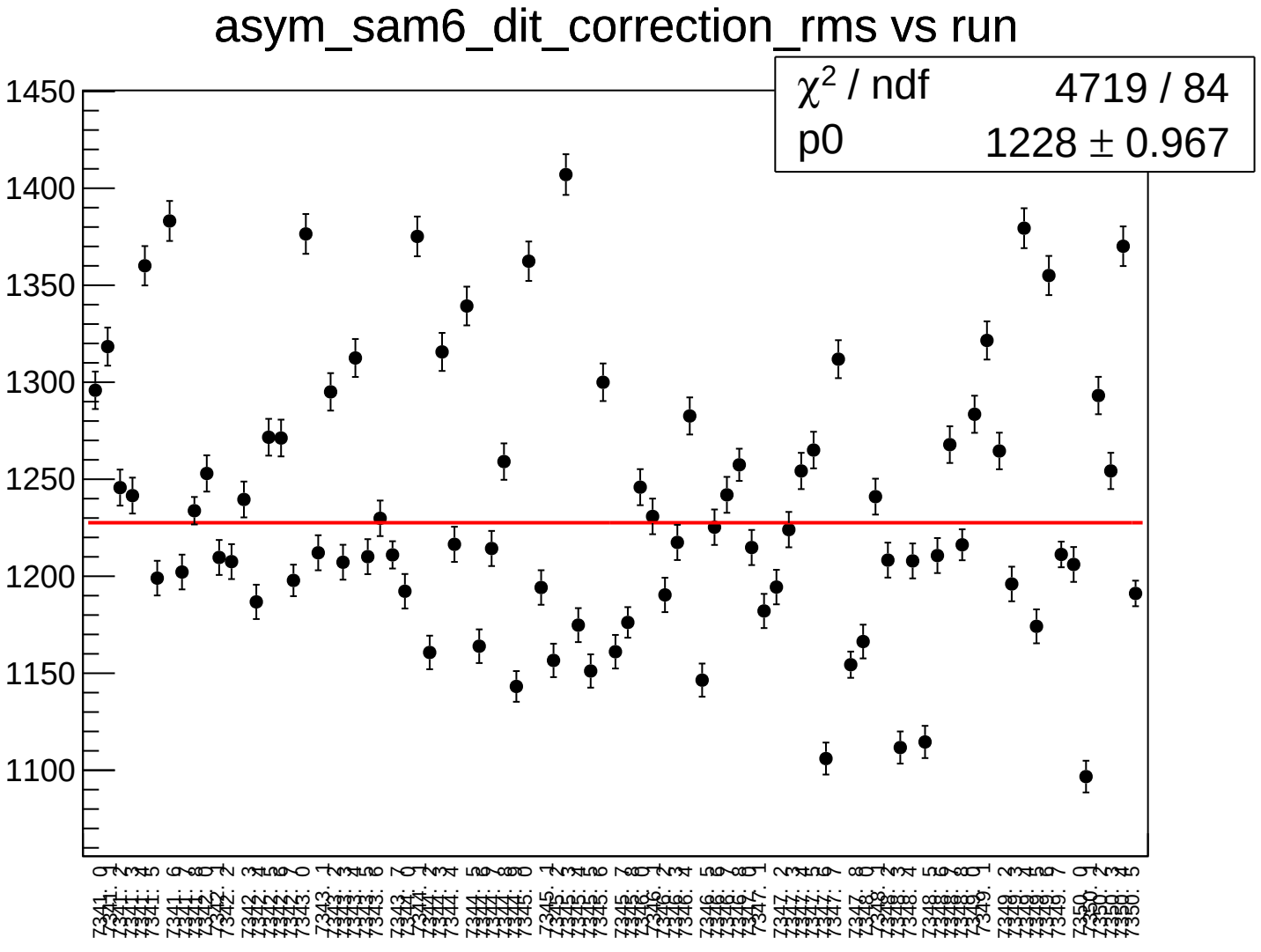

dit_asym_sam6_mean vs run
χ² / ndf 103.6 / 84
p0 163.6 ± 225.8
pull
Entries 85
Mean −551.3
Std Dev 0

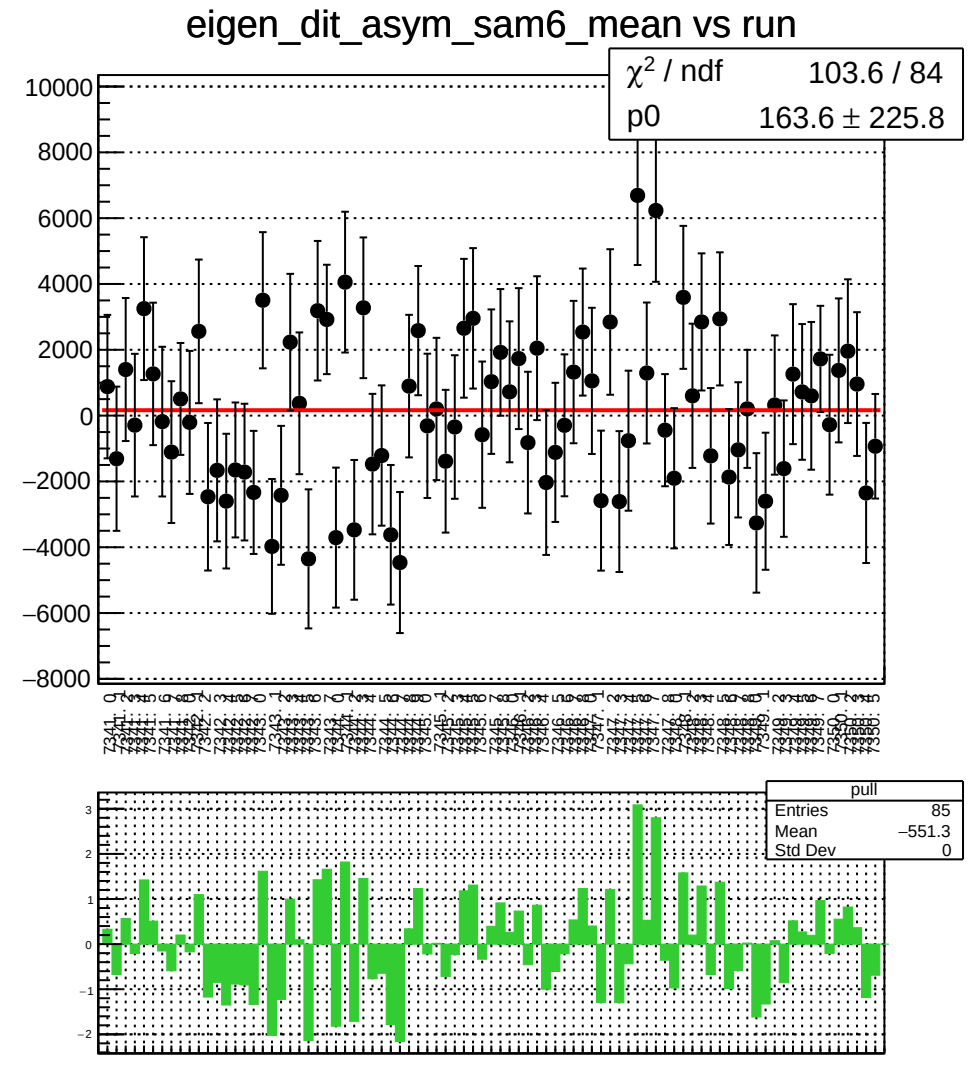

pull1D
Entries 85
Mean −0.004146
Std Dev 1.104

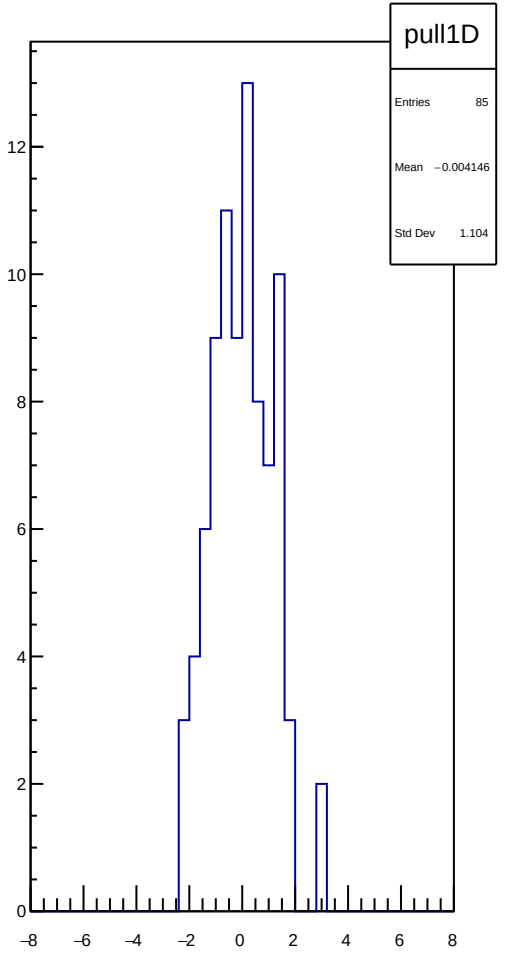

dit_asym_sam6_rms vs run
χ^2 / ndf 925.8 / 84
p0 203 ± 0.1597
220
215
210
205
200
195
190

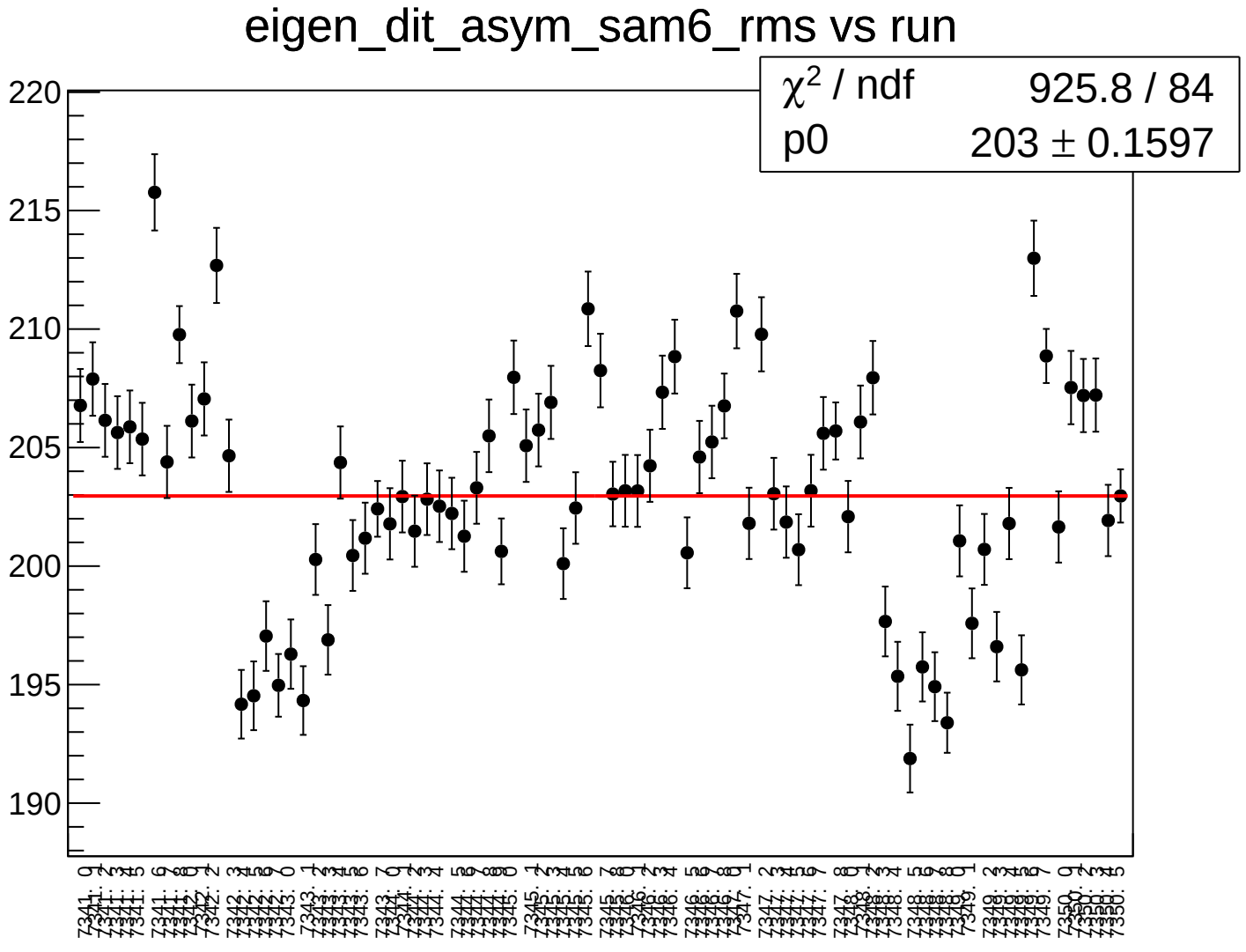

asym_sam6_dit_correction_mean vs run
χ² / ndf 73.47 / 84
p0 −360 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −130.4
Std Dev 0
2
1
0
−1
−2

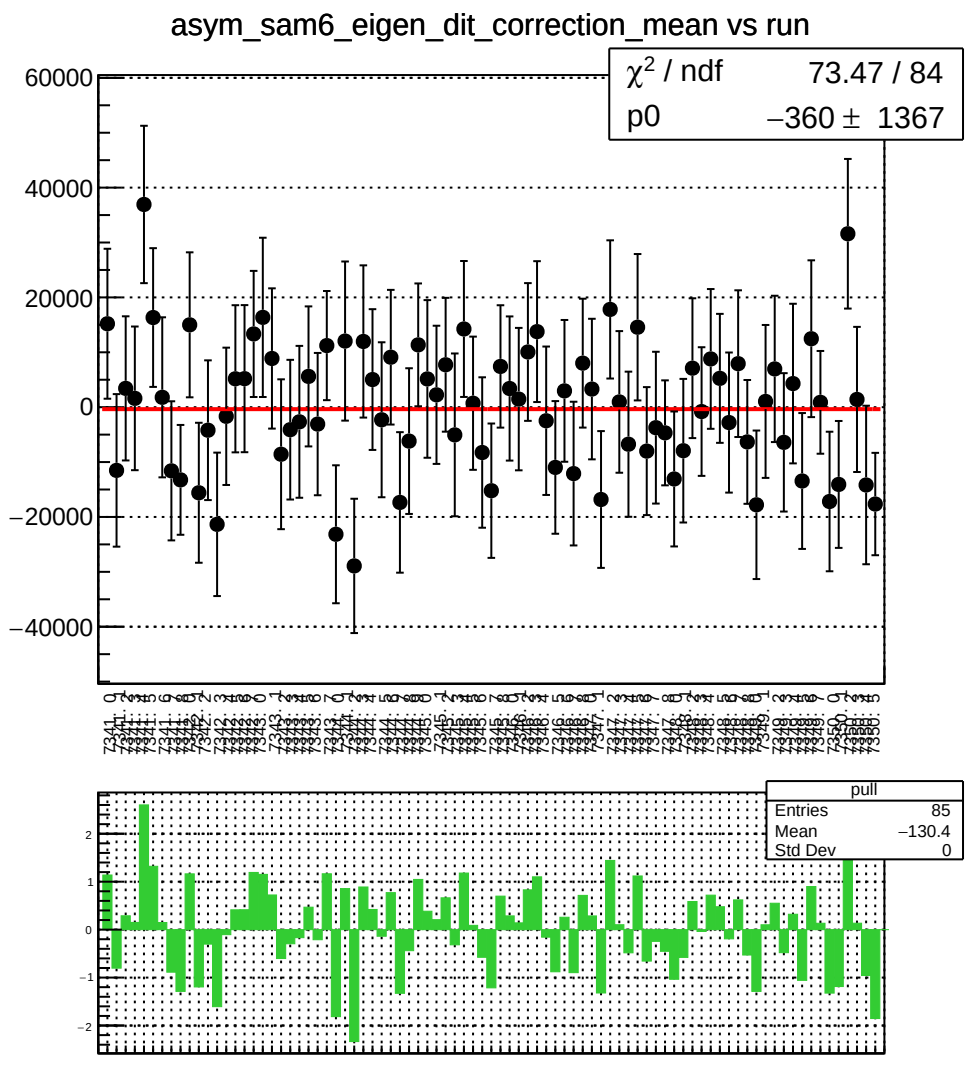

pull1D
Entries 85
Mean 0.01753
Std Dev 0.9295
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

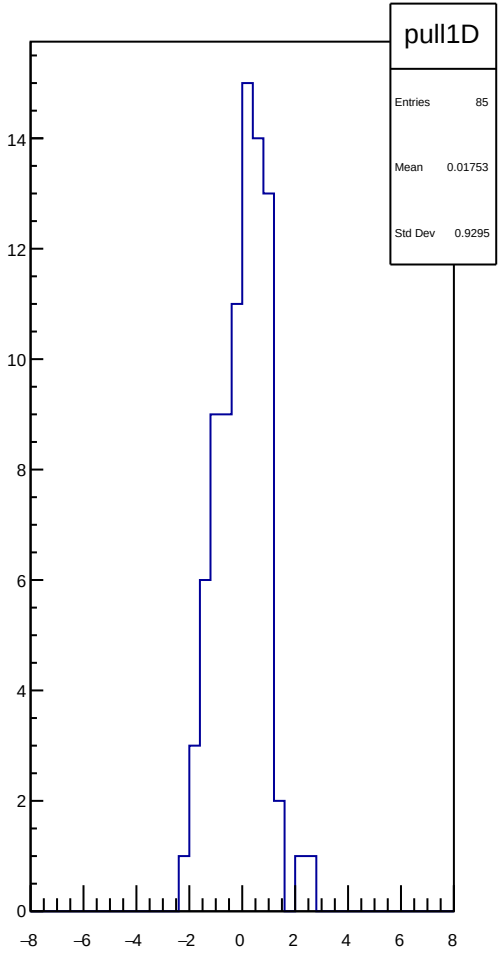

asym_sam6_dit_correction_rms vs run
χ² / ndf 4719 / 84
p0 1228 ± 0.967
1450
1400
1350
1300
1250
1200
1150
1100

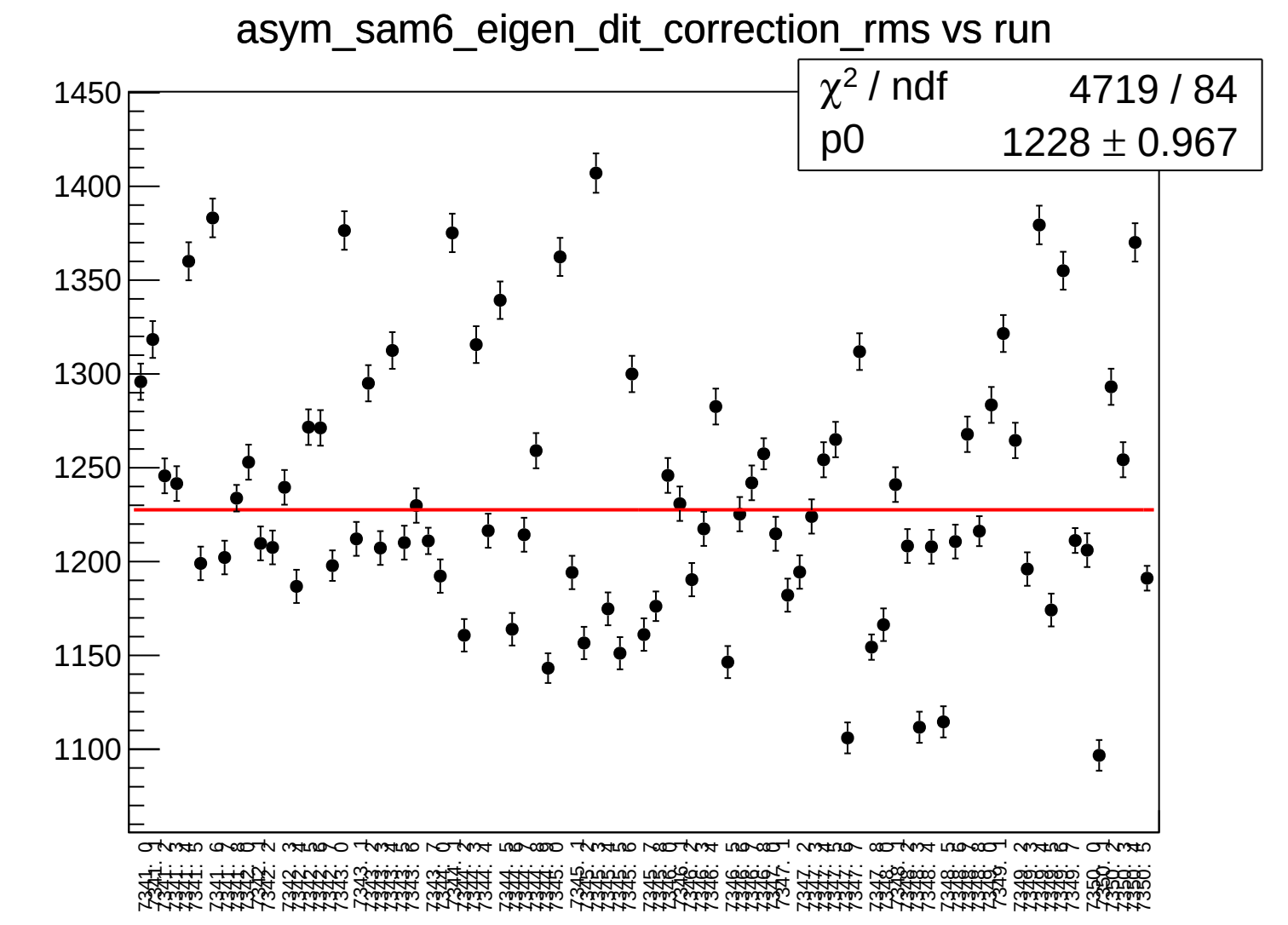

eigen_dit_asym_sam6_mean vs run
χ² / ndf 103.6 / 84
p0 163.6 ± 225.8
pull
Entries 85
Mean −551.3
Std Dev 0

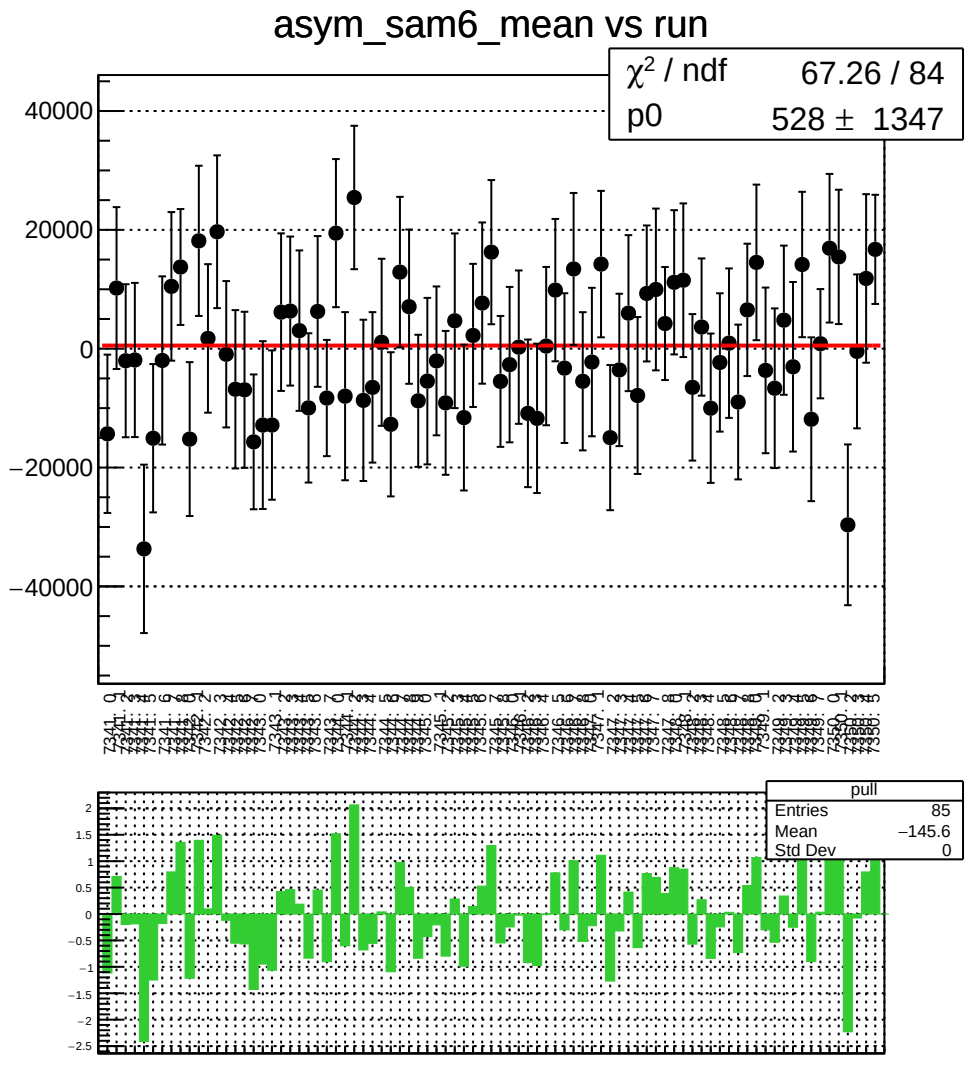

pull1D
Entries 85
Mean −0.004146
Std Dev 1.104

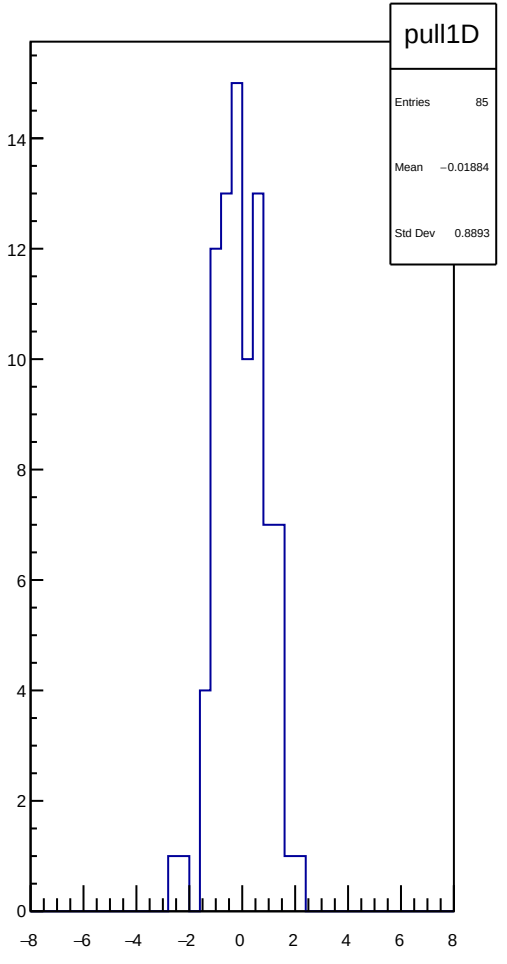

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 925.8 / 84
p0 203 ± 0.1597
220
215
210
205
200
195
190

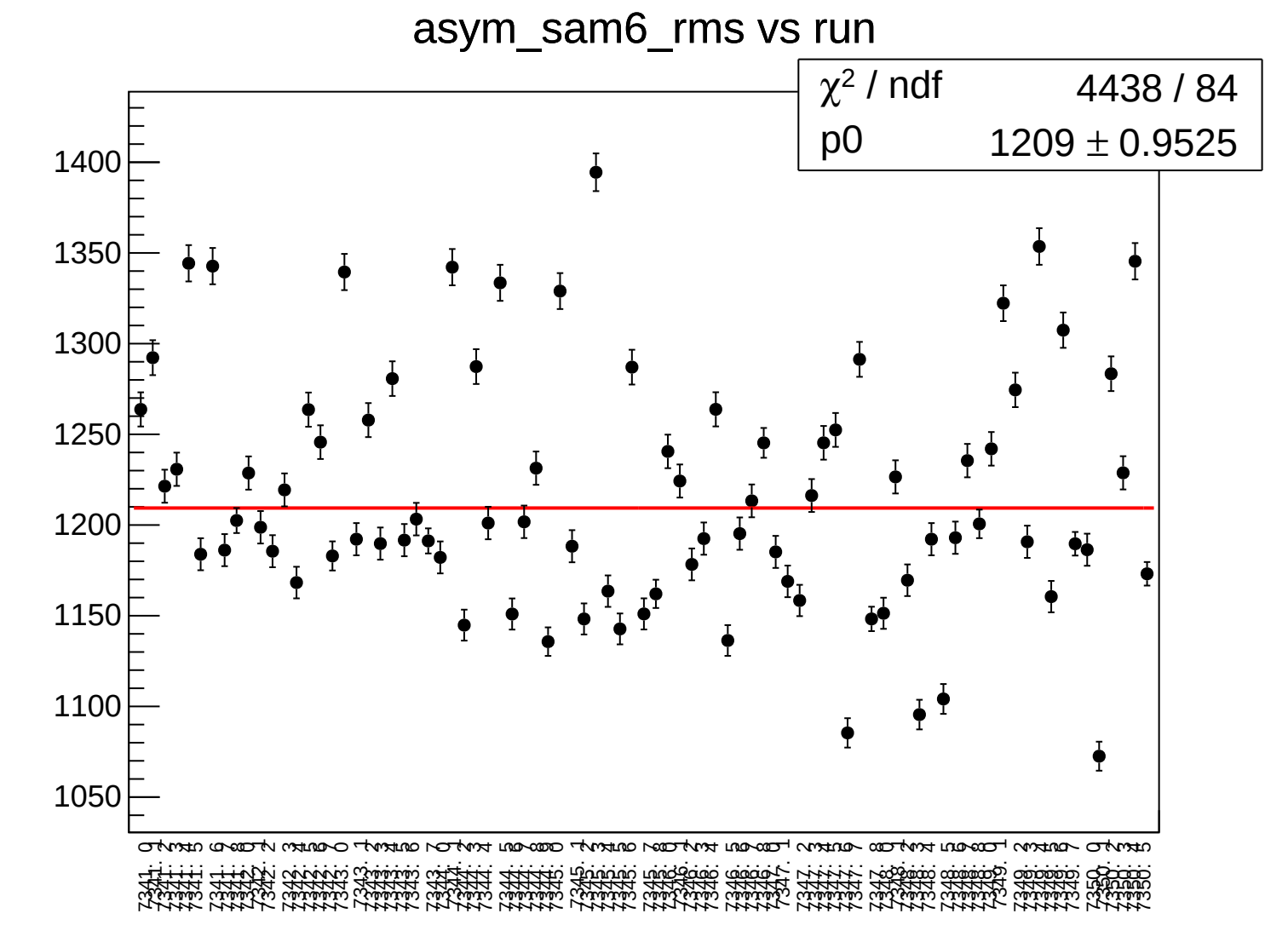

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 73.47 / 84
p0 −360 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −130.4
Std Dev 0
2
1
0
−1
−2

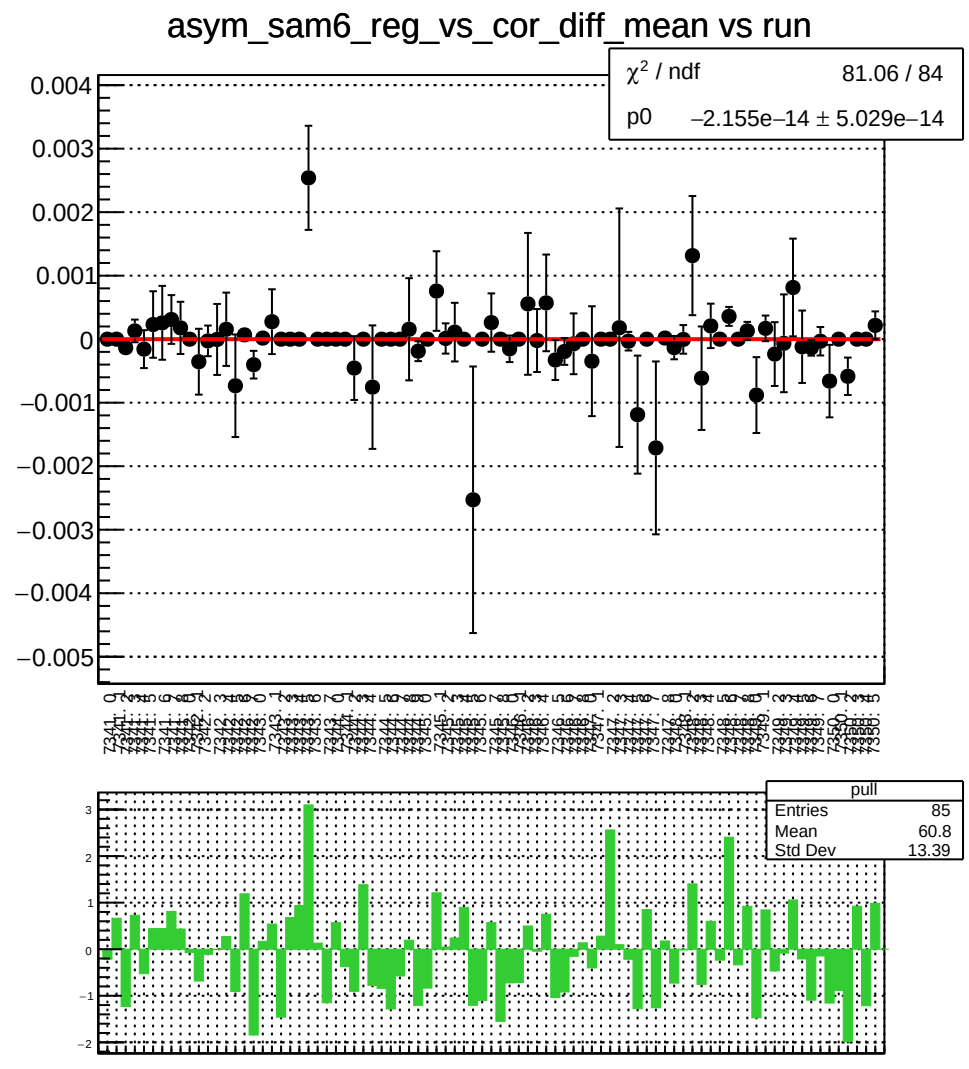

pull1D
Entries 85
Mean 0.01753
Std Dev 0.9295
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

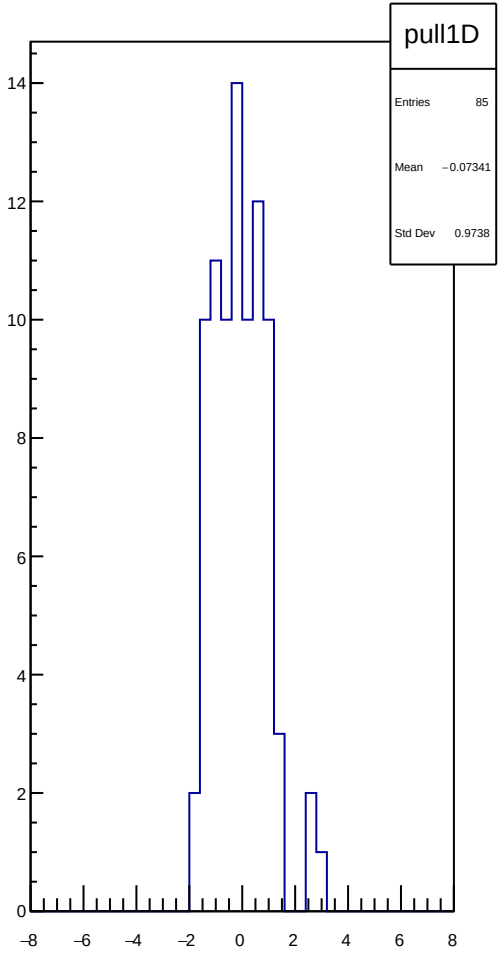

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 4719 / 84
p0 1228 ± 0.967
1450
1400
1350
1300
1250
1200
1150
1100

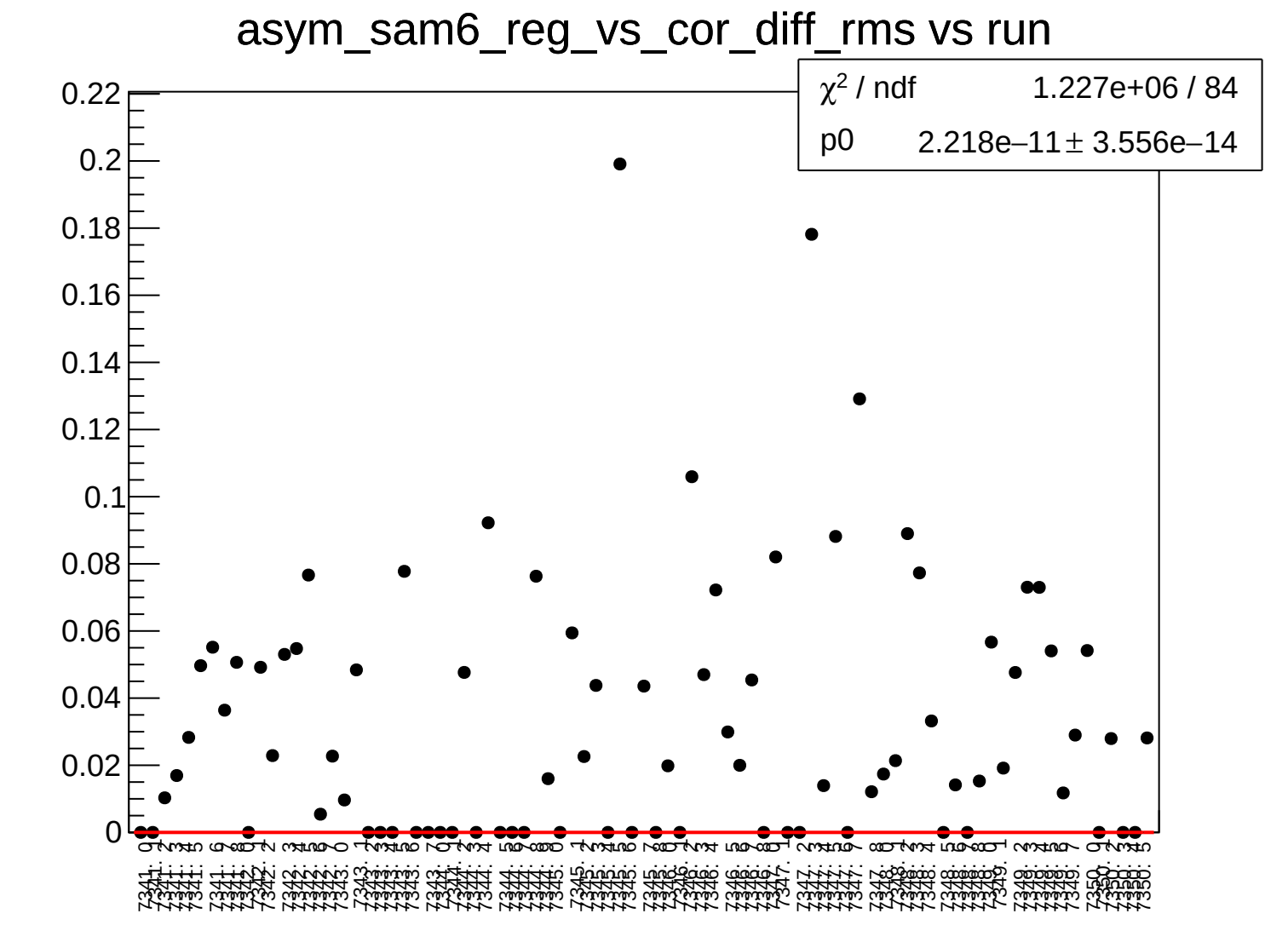

asym_sam6_mean vs run
χ^2 / ndf 67.26 / 84
p0 528 ± 1347
40000
20000
0
−20000
−40000
pull
Entries 85
Mean −145.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

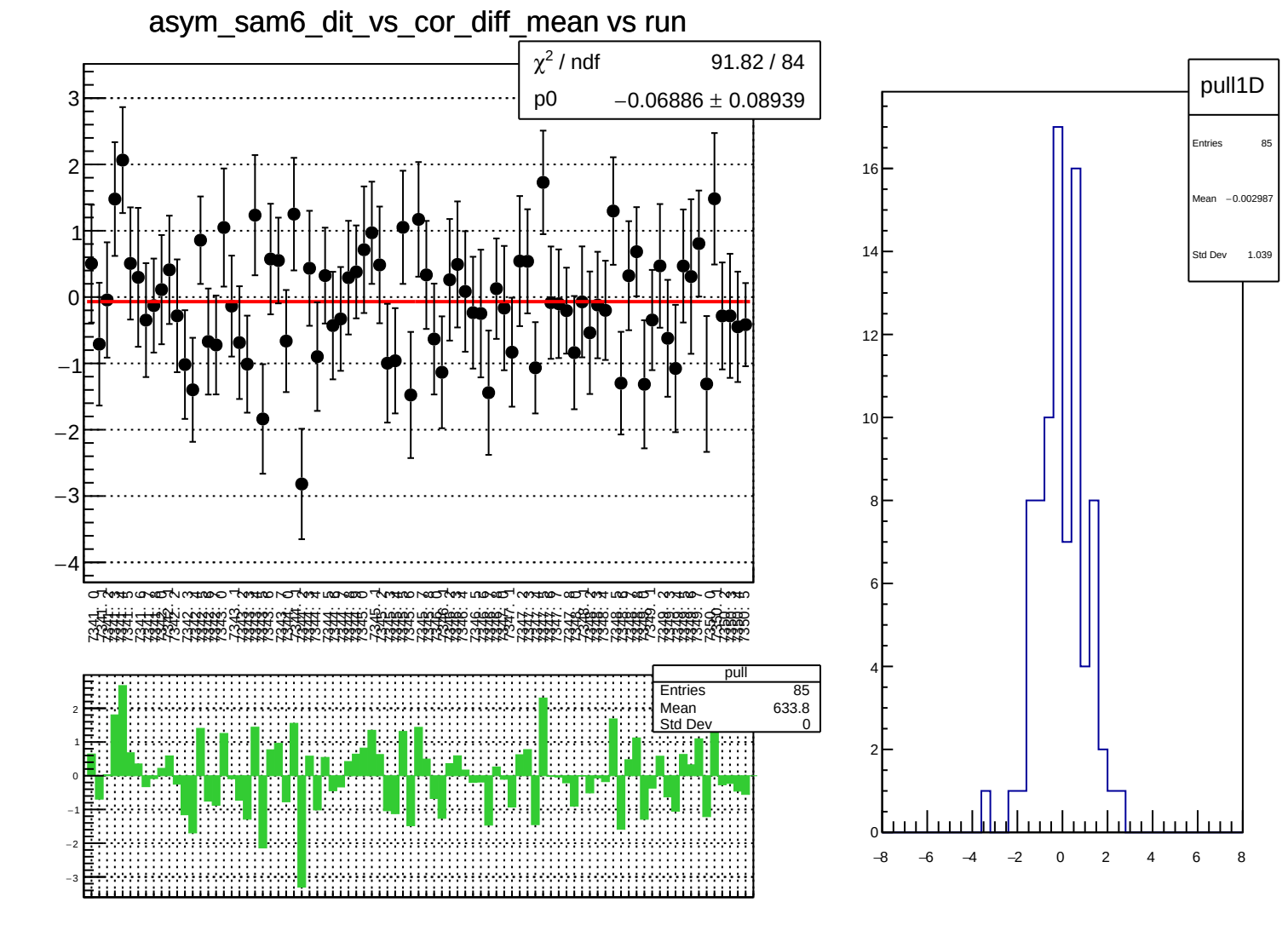

pull1D
Entries 85
Mean −0.01884
Std Dev 0.8893
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

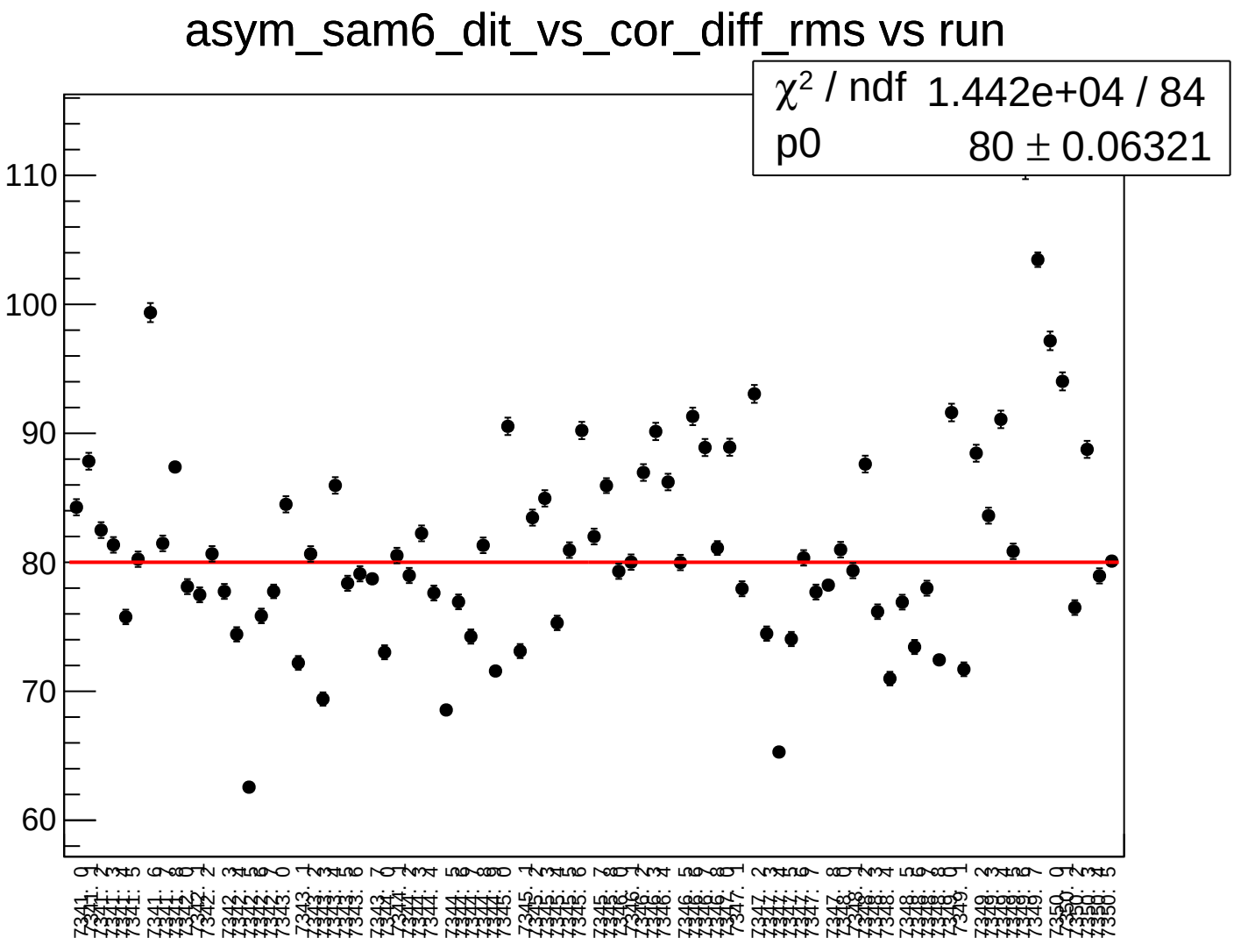

asym_sam6_rms vs run
χ² / ndf 4438 / 84
p0 1209 ± 0.9525
1400
1350
1300
1250
1200
1150
1100
1050

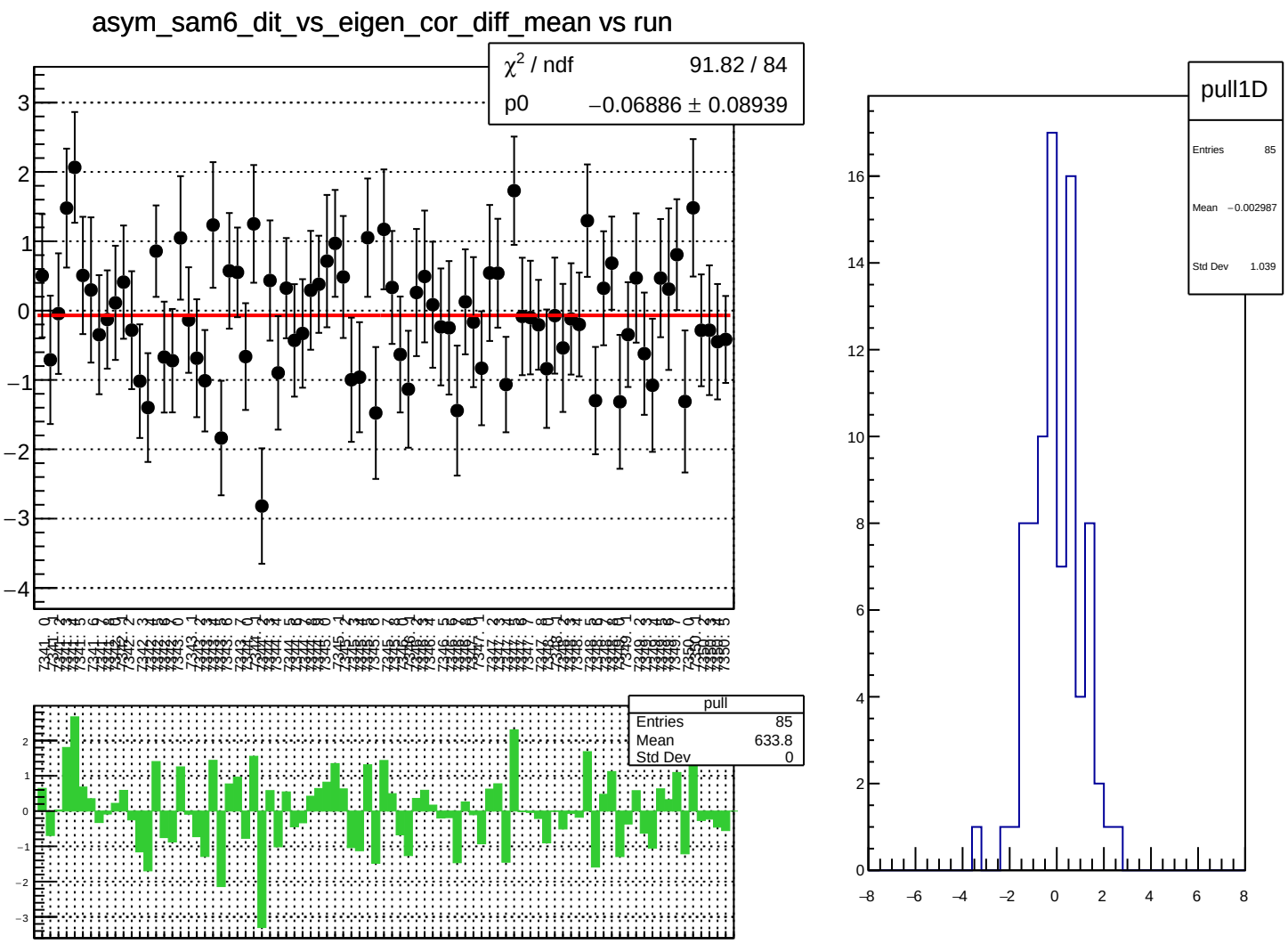

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 81.06 / 84
p0 −2.155e−14 ± 5.029e−14
pull
Entries 85
Mean 60.8
Std Dev 13.39

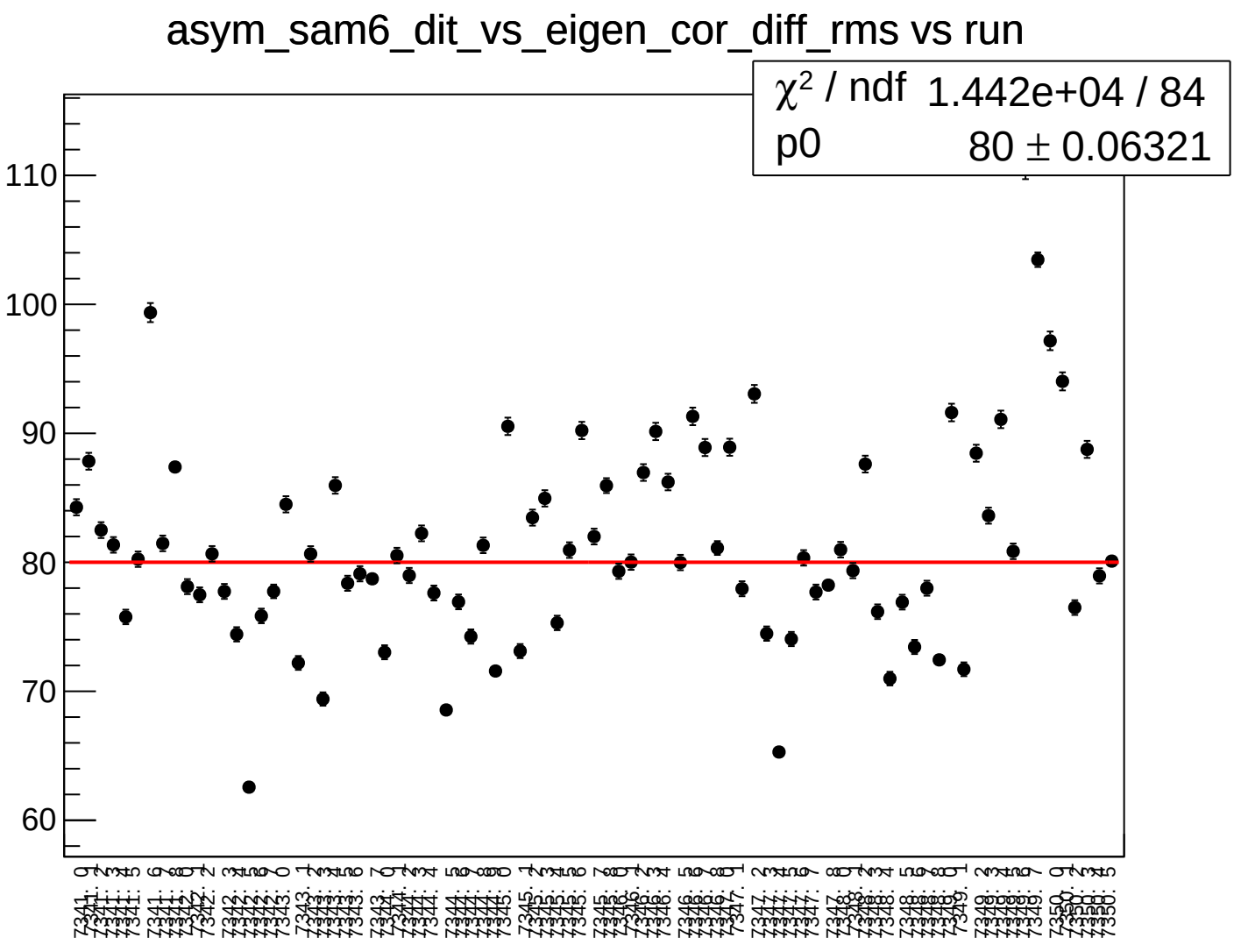

pull1D
Entries 85
Mean −0.07341
Std Dev 0.9738

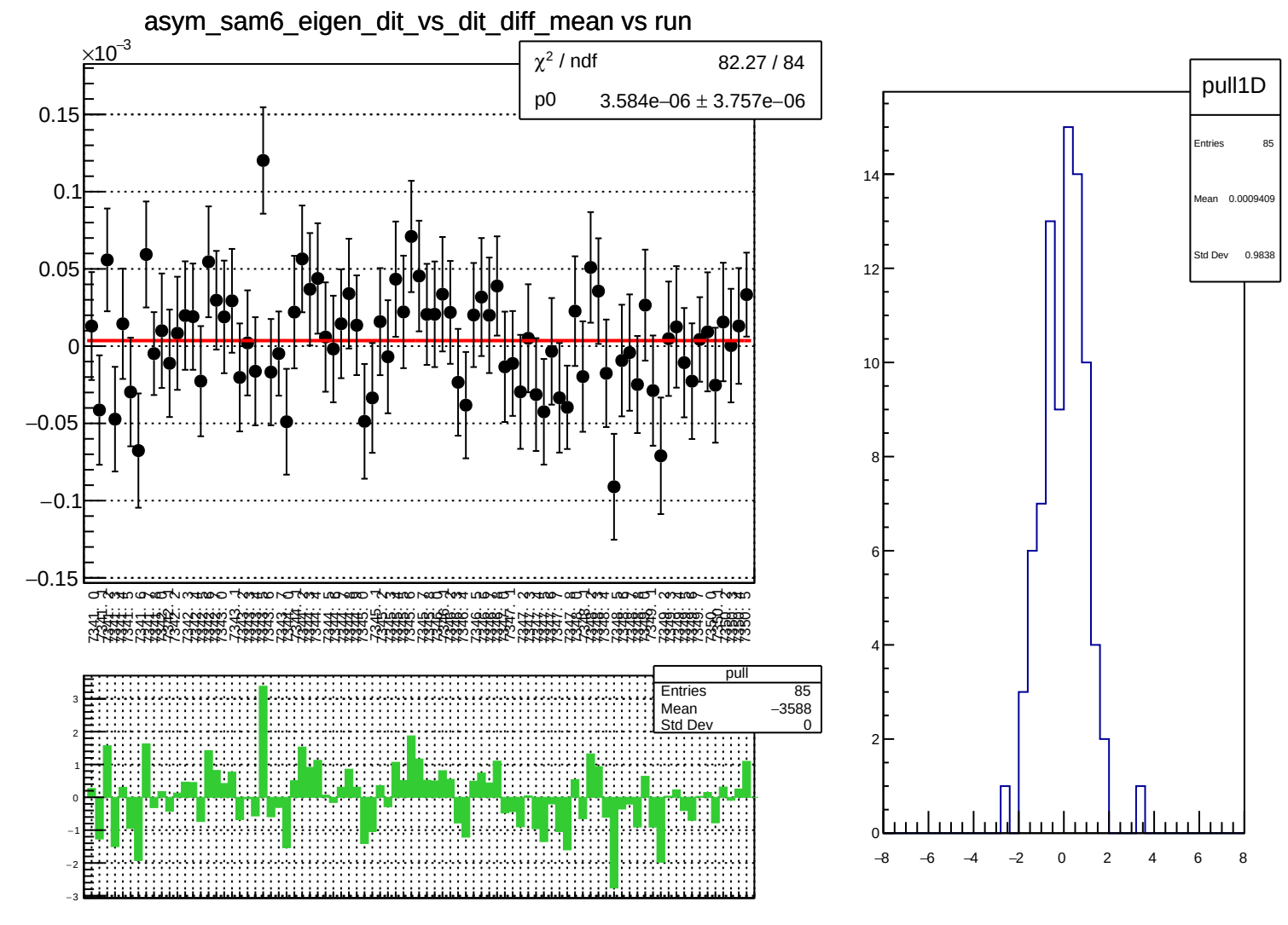

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.227e+06 / 84
p0 2.218e−11 ± 3.556e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

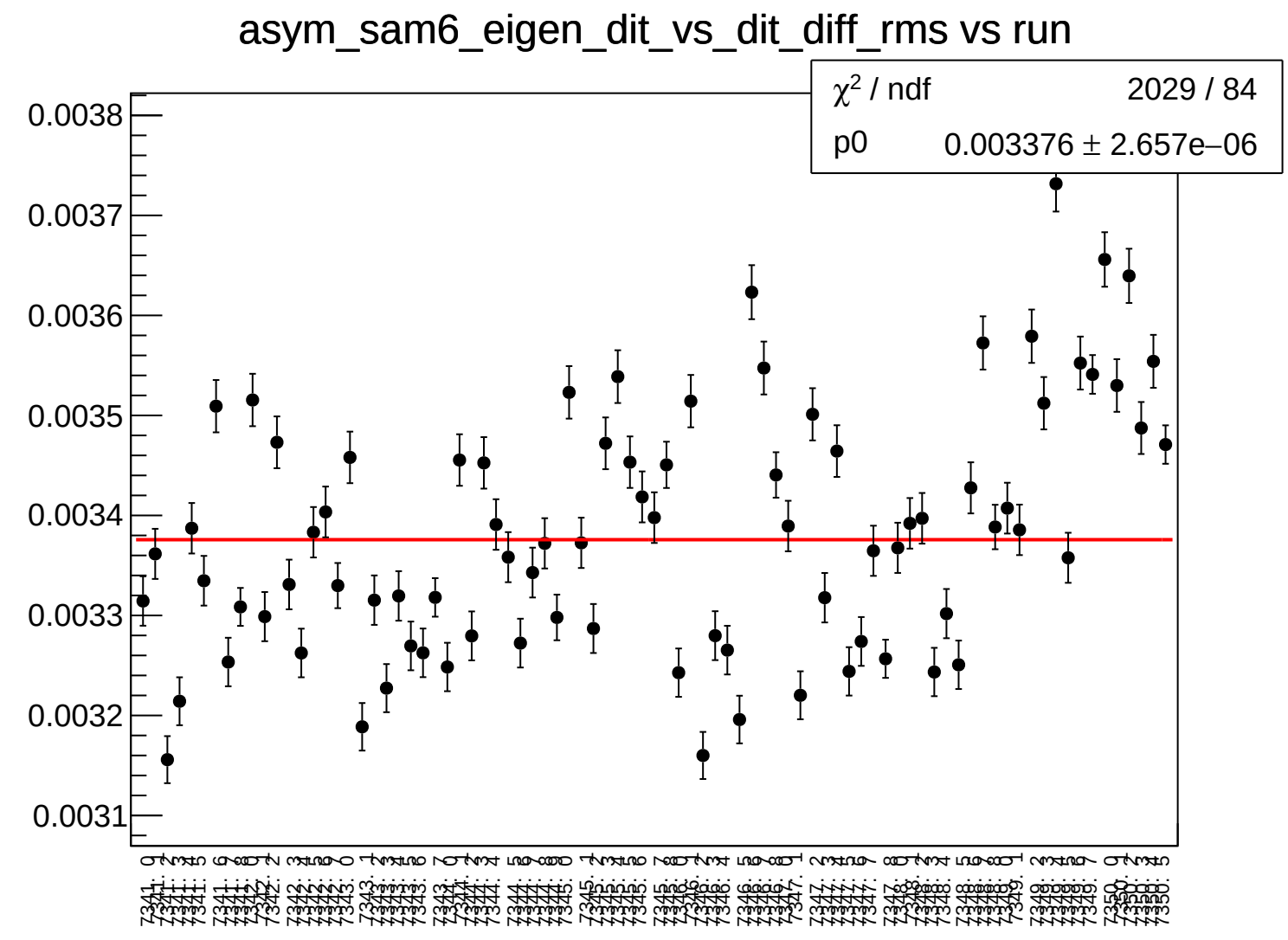

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 91.82 / 84
p0 −0.06886 ± 0.08939
pull
Entries 85
Mean 633.8
Std Dev 0
pull1D
Entries 85
Mean −0.002987
Std Dev 1.039

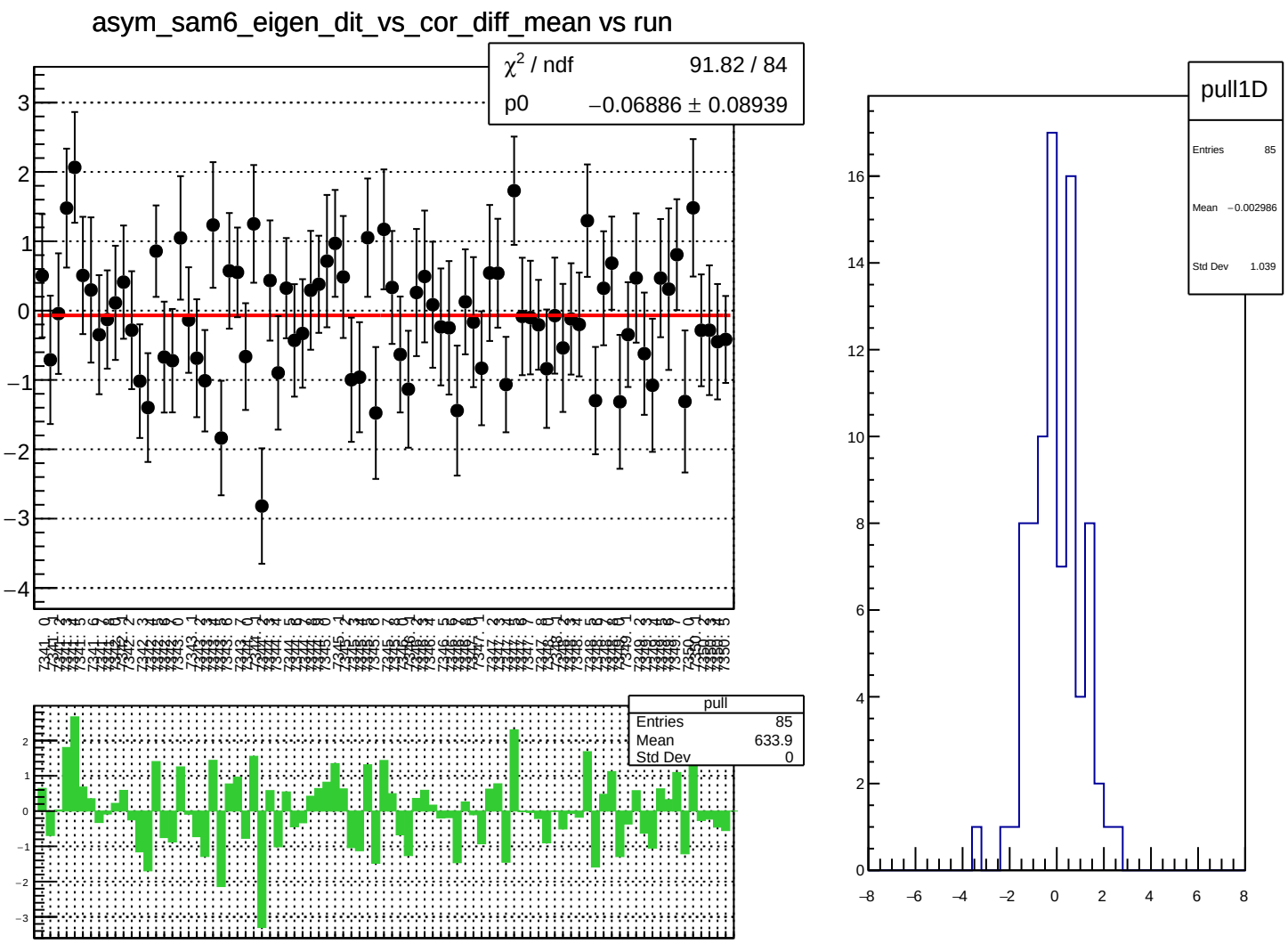

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.442e+04 / 84
p0 80 ± 0.06321
110
100
90
80
70
60

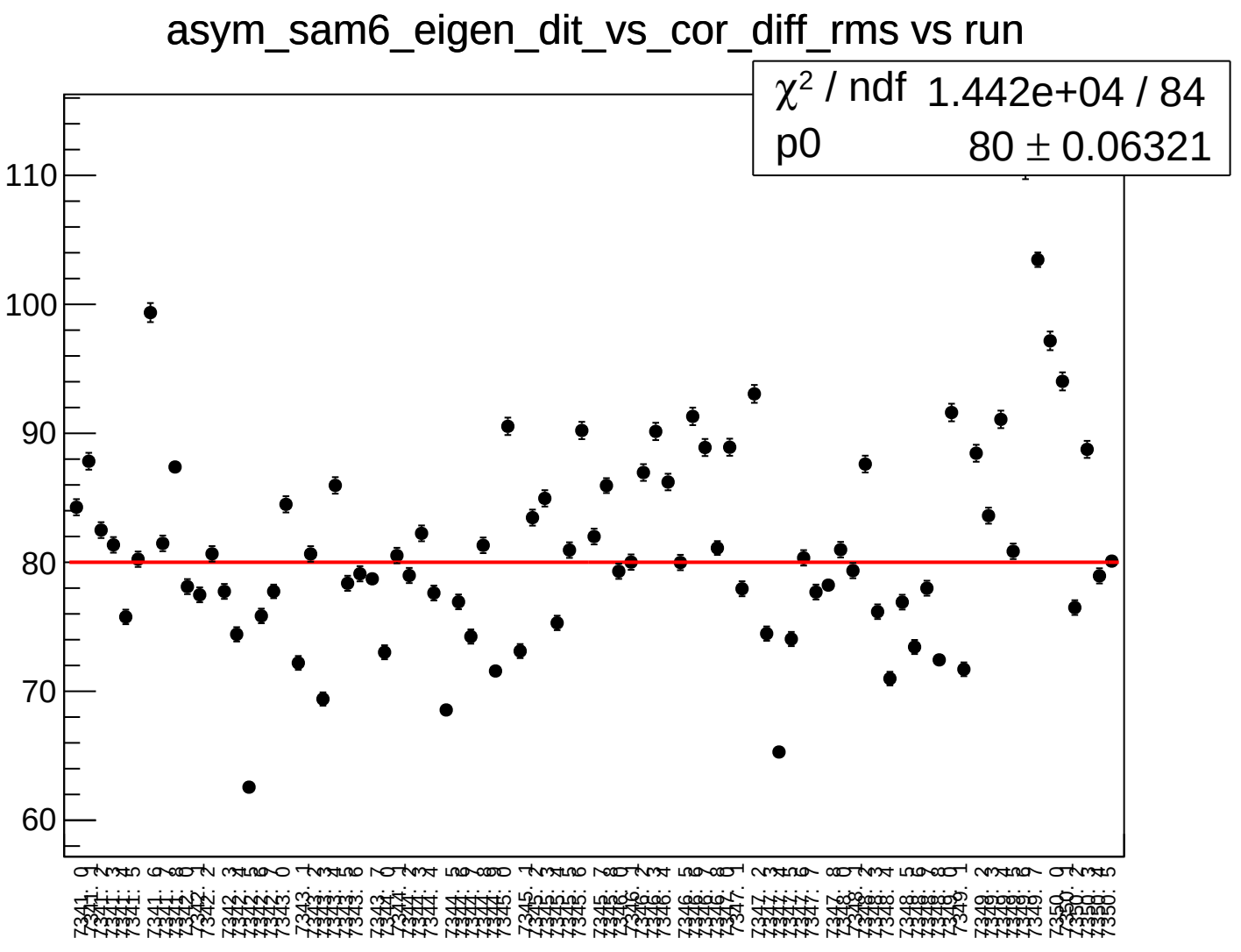

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.82 / 84
p0 −0.06886 ± 0.08939
pull
Entries 85
Mean 633.8
Std Dev 0
pull1D
Entries 85
Mean −0.002987
Std Dev 1.039

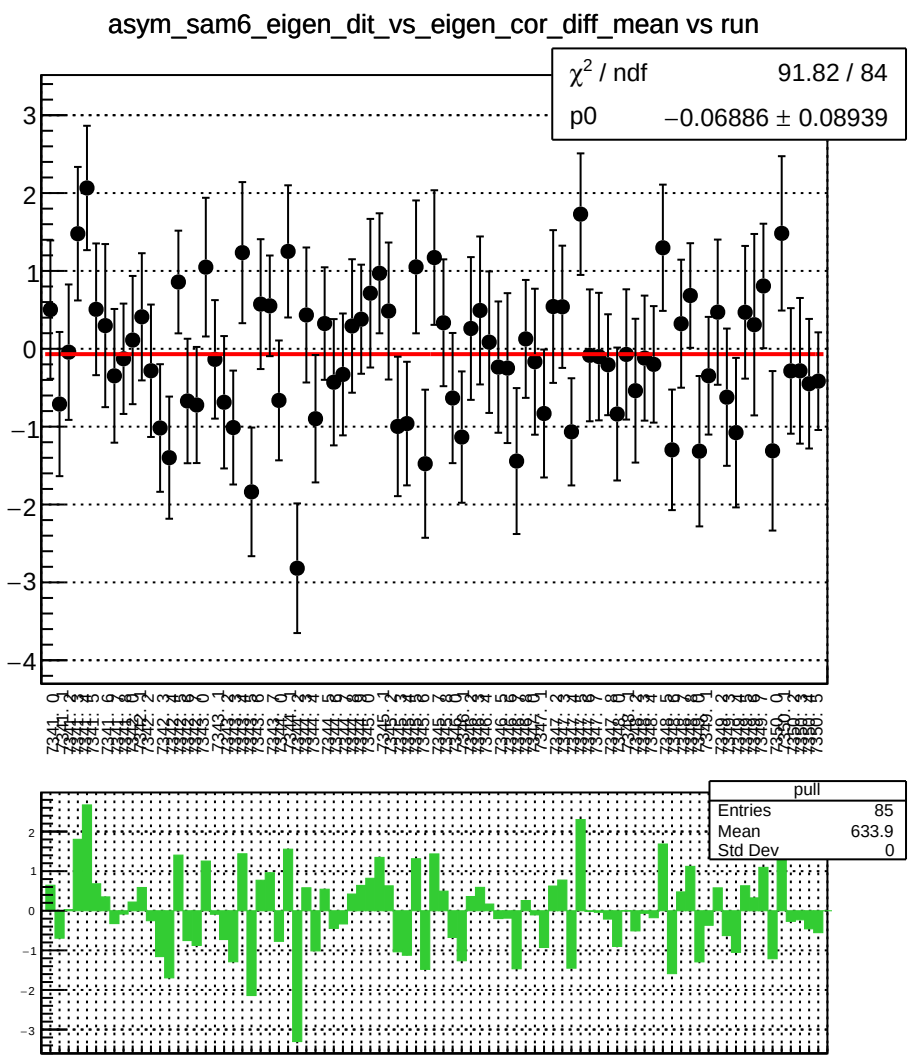

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.442e+04 / 84
p0 80 ± 0.06321
110
100
90
80
70
60

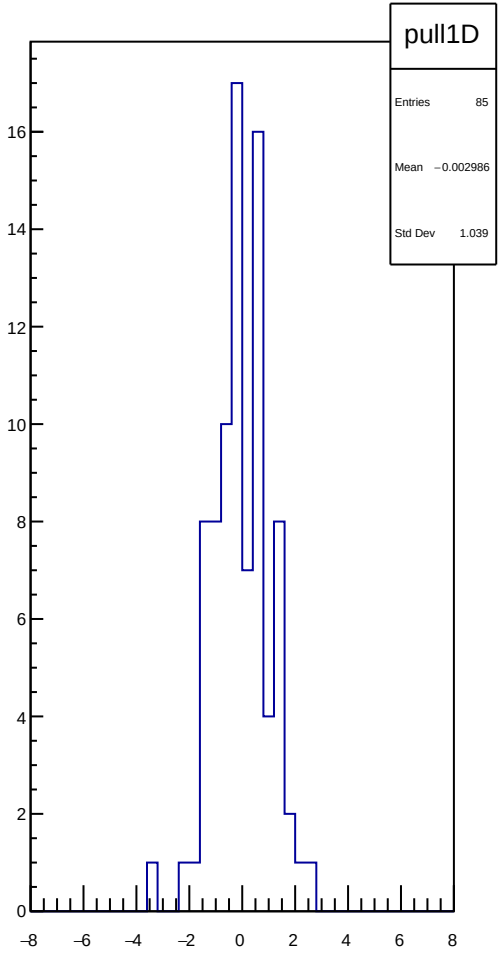

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.27 / 84
p0 3.584e−06 ± 3.757e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean −3588
Std Dev 0
pull1D
Entries 85
Mean 0.0009409
Std Dev 0.9838

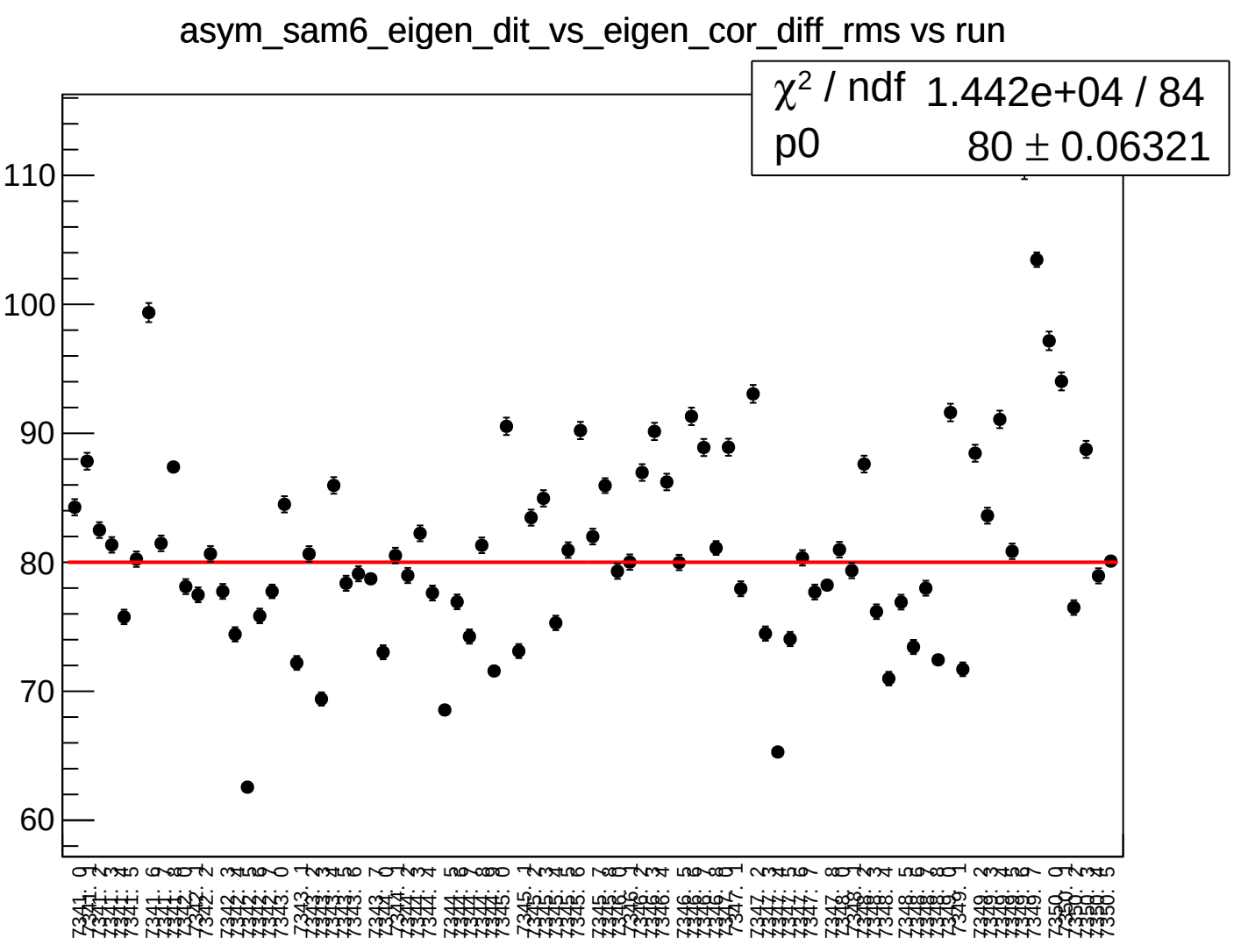

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2029 / 84
p0 0.003376 ± 2.657e−06
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031

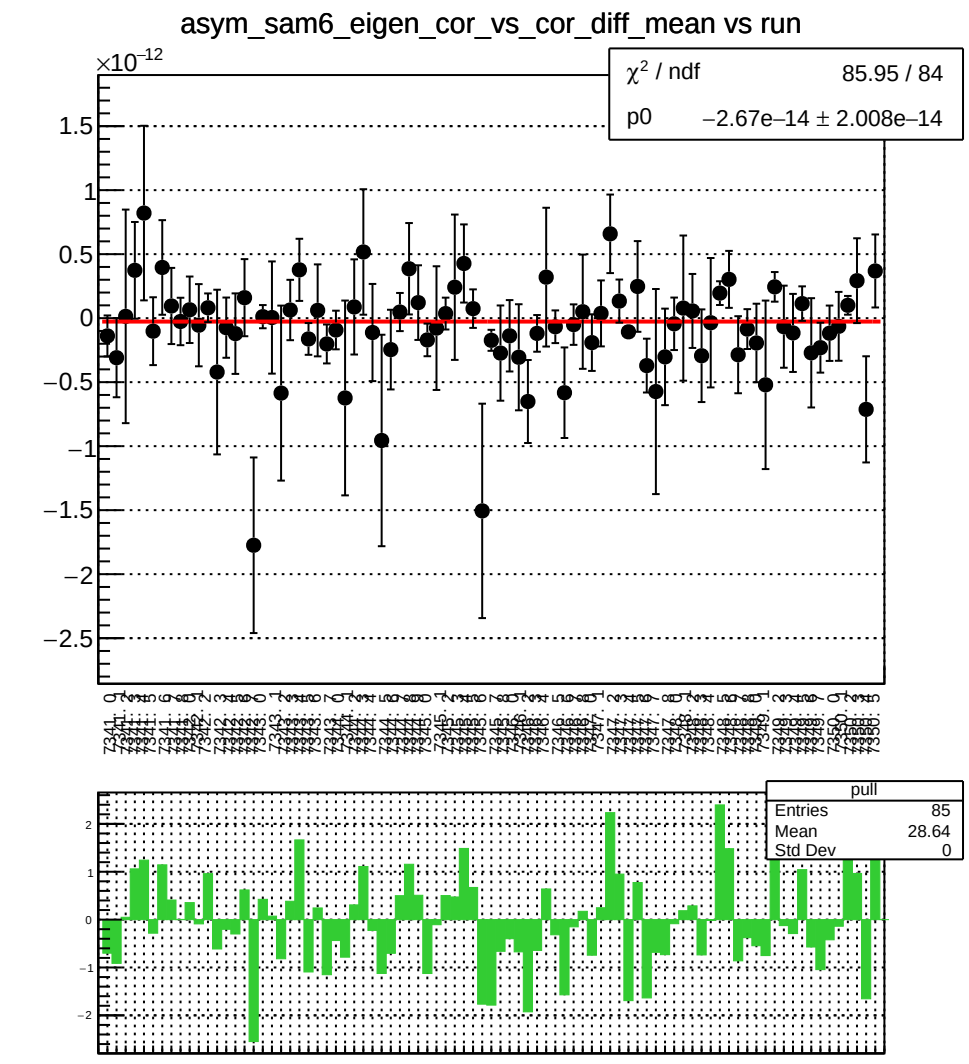

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.82 / 84
p0 −0.06886 ± 0.08939
pull
Entries 85
Mean 633.9
Std Dev 0
pull1D
Entries 85
Mean −0.002986
Std Dev 1.039

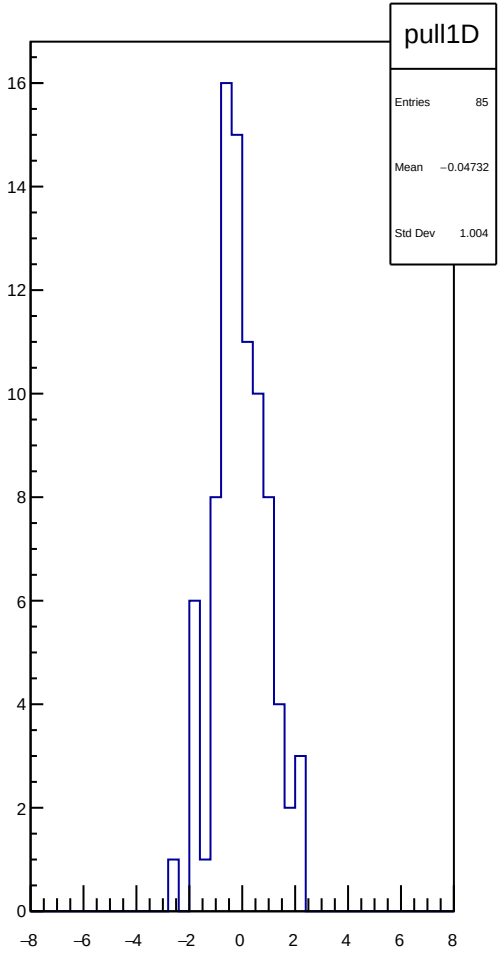

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.442e+04 / 84
p0 80 ± 0.06321
110
100
90
80
70
60

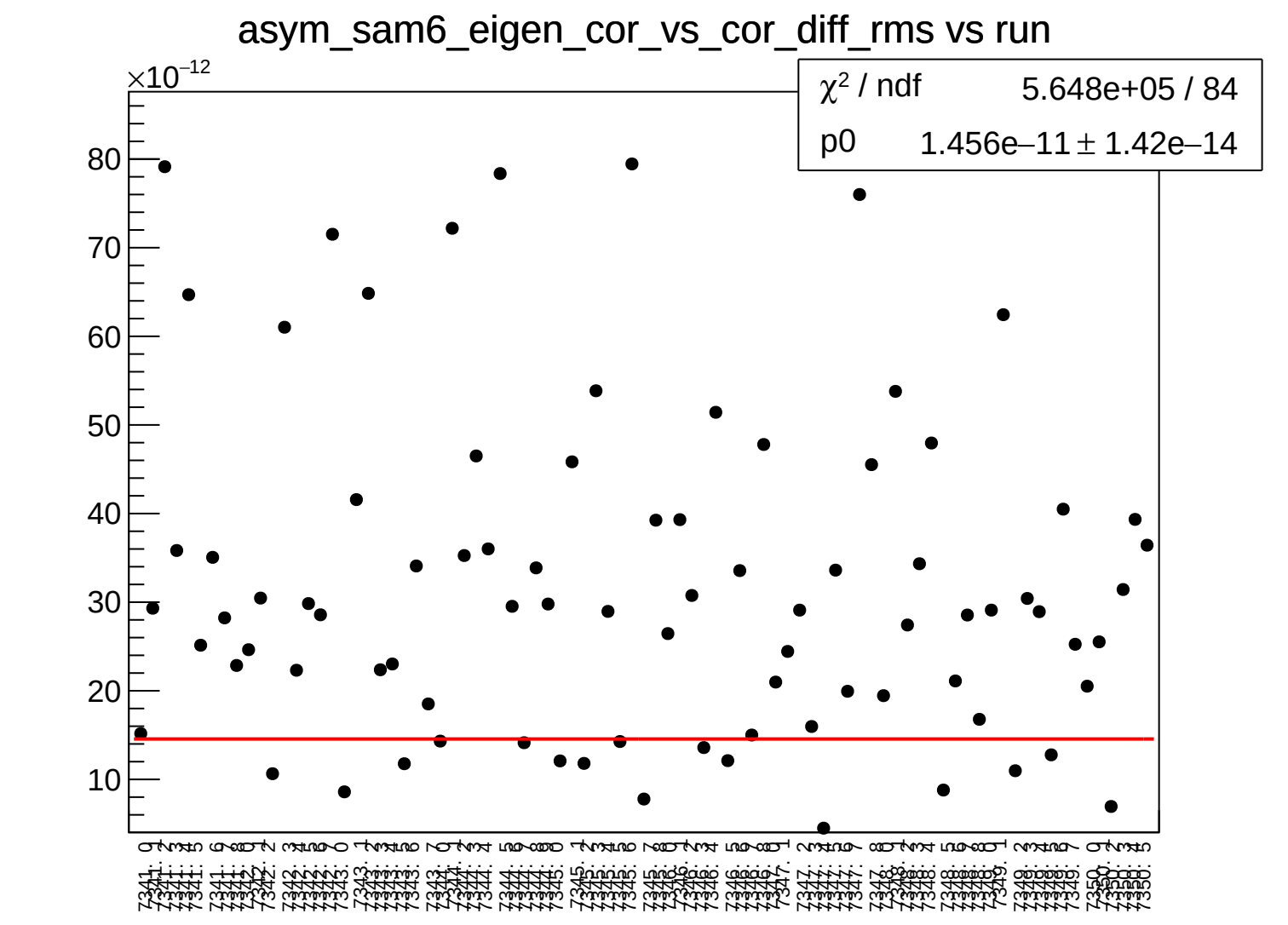

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.82 / 84
p0 −0.06886 ± 0.08939
pull
Entries 85
Mean 633.9
Std Dev 0

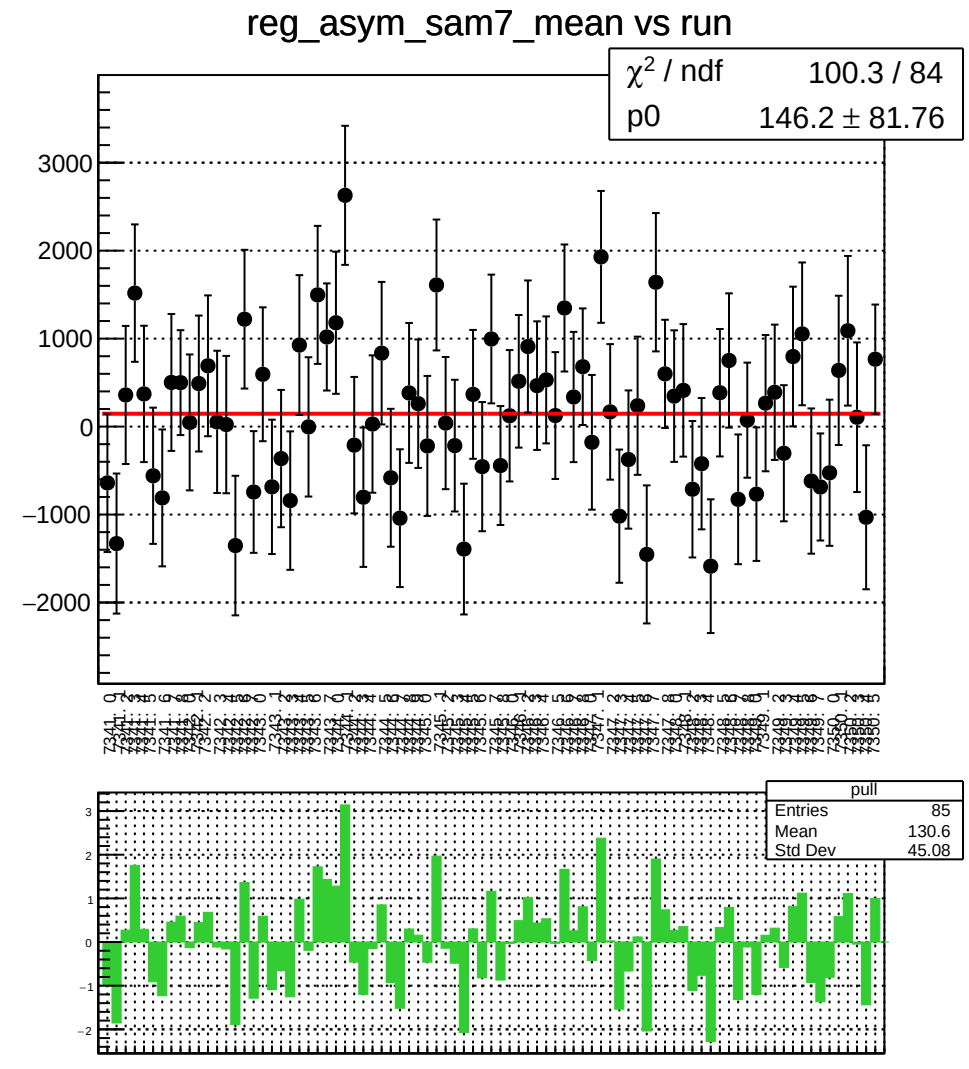

pull1D
Entries 85
Mean −0.002986
Std Dev 1.039

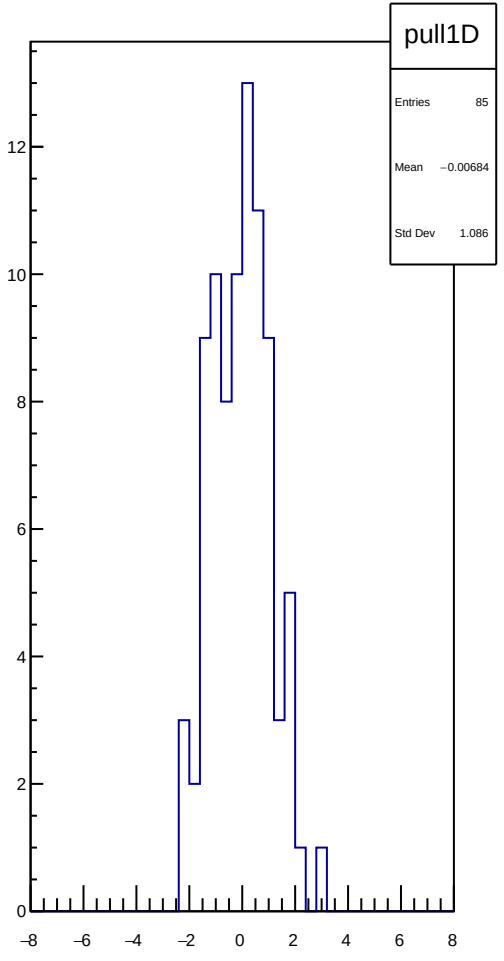

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.442e+04 / 84
p0 80 ± 0.06321
110
100
90
80
70
60

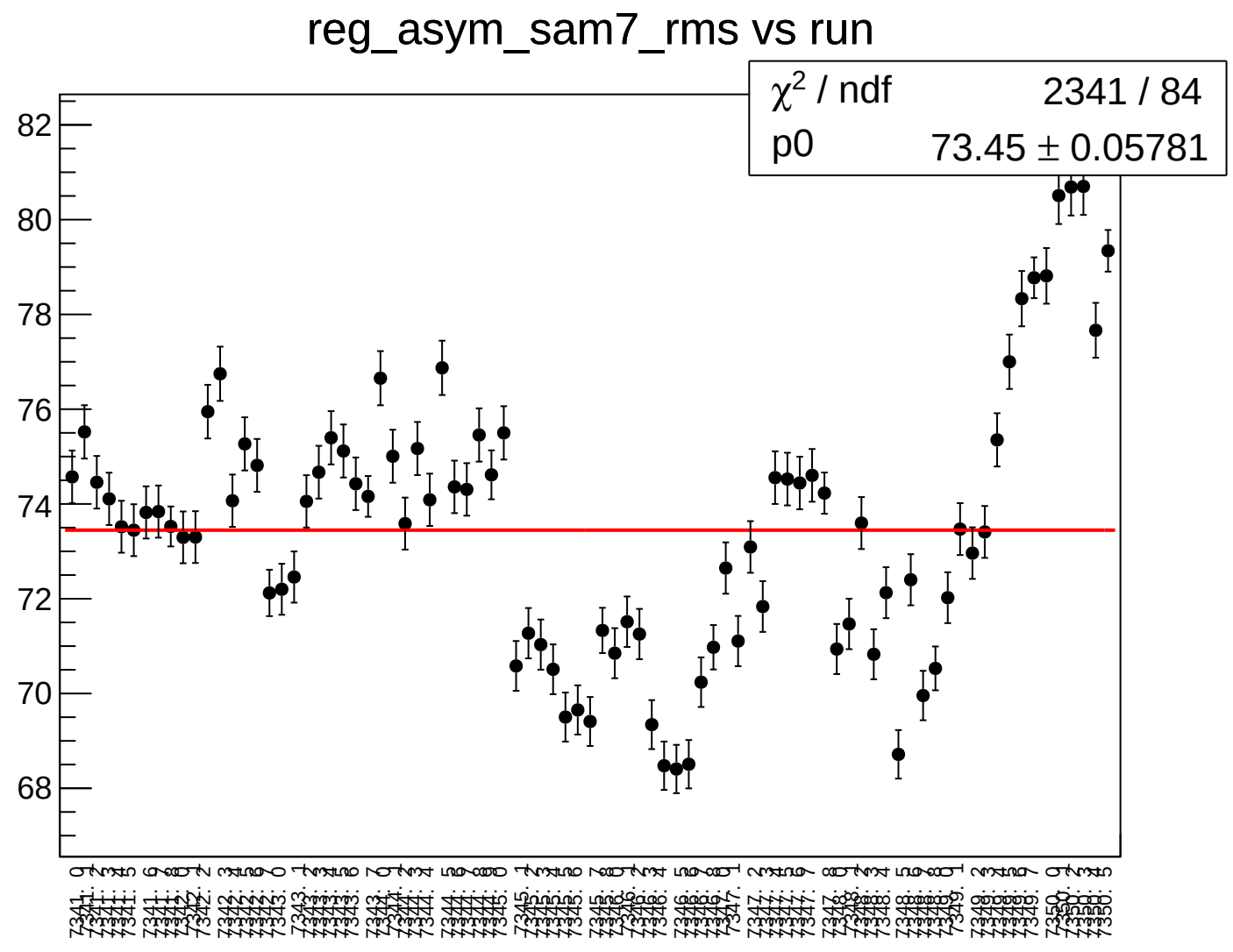

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.95 / 84
p0 −2.67e−14 ± 2.008e−14
pull
Entries 85
Mean 28.64
Std Dev 0

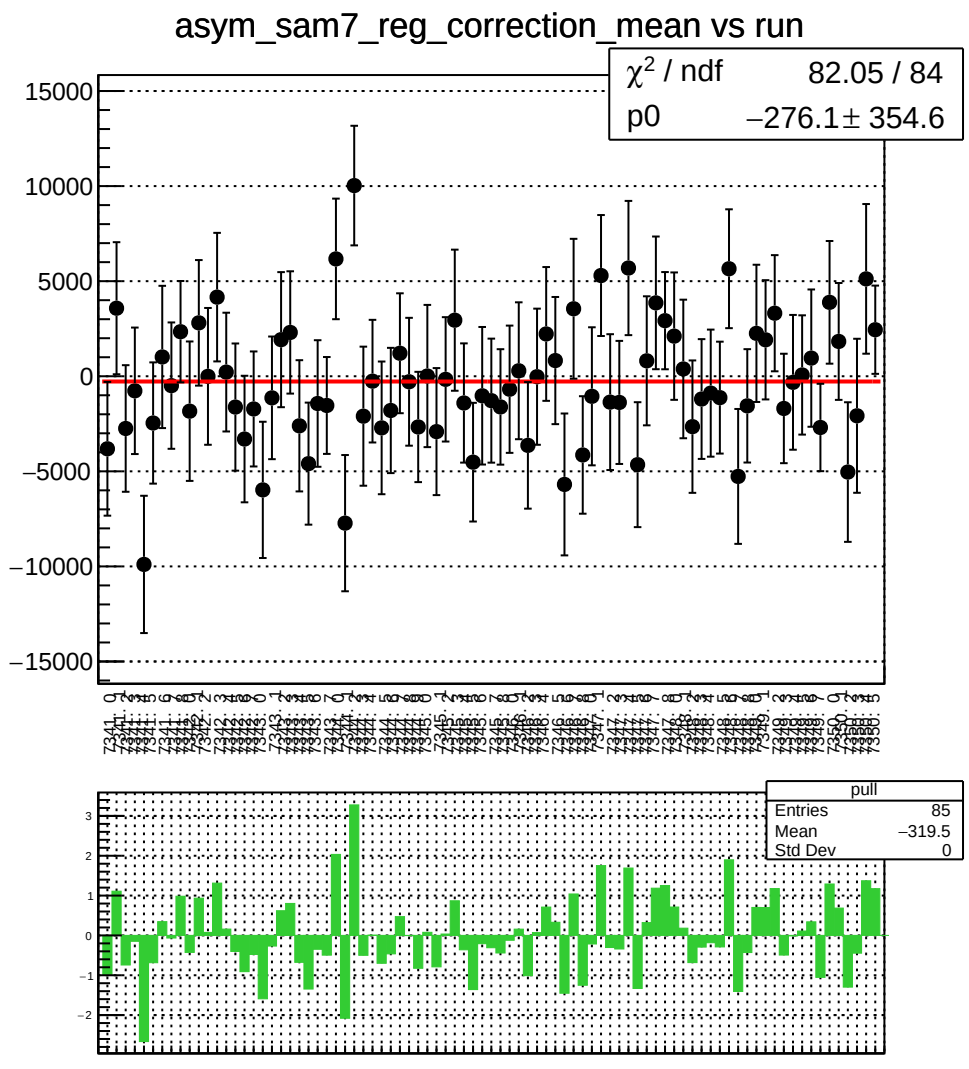

pull1D
Entries 85
Mean −0.04732
Std Dev 1.004

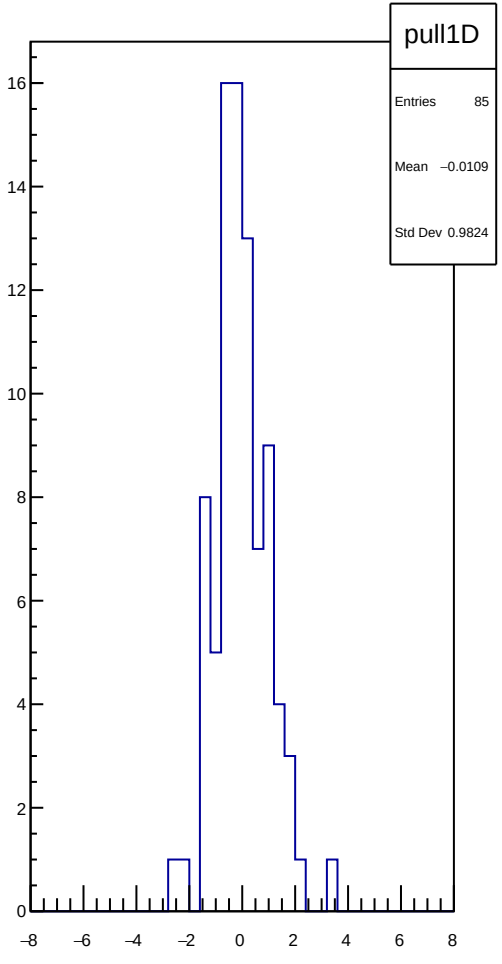

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.648e+05 / 84
p0 1.456e−11 ± 1.42e−14
80
70
60
50
40
30
20
10

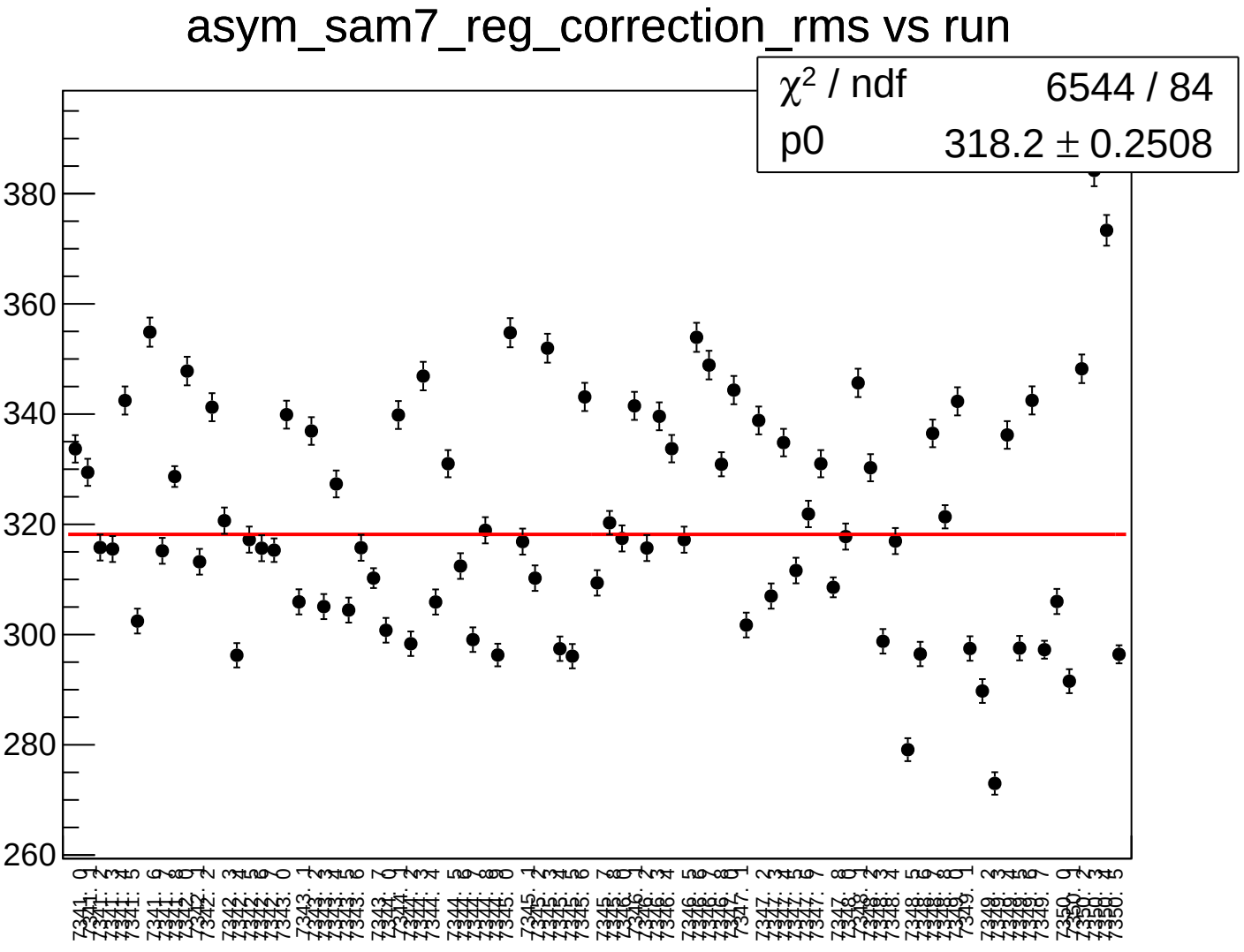

reg_asym_sam7_mean vs run
χ² / ndf 100.3 / 84
p0 146.2 ± 81.76
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 130.6
Std Dev 45.08
3
2
1
0
−1
−2

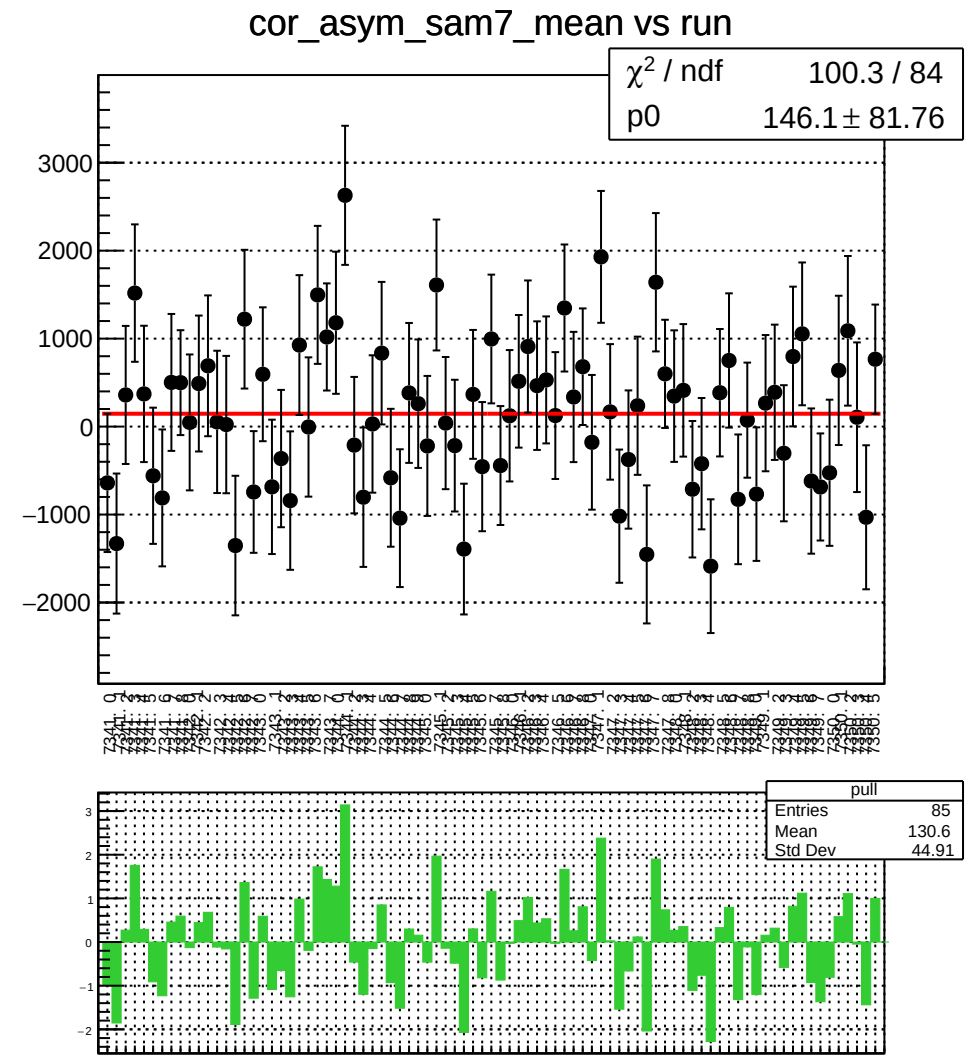

pull1D
Entries 85
Mean −0.00684
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

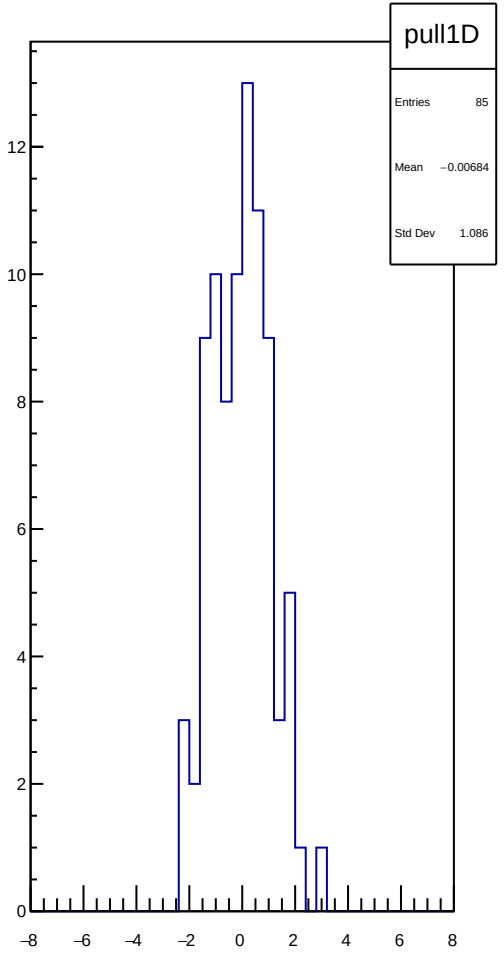

reg_asym_sam7_rms vs run
χ^2 / ndf 2341 / 84
p0 73.45 ± 0.05781
82
80
78
76
74
72
70
68

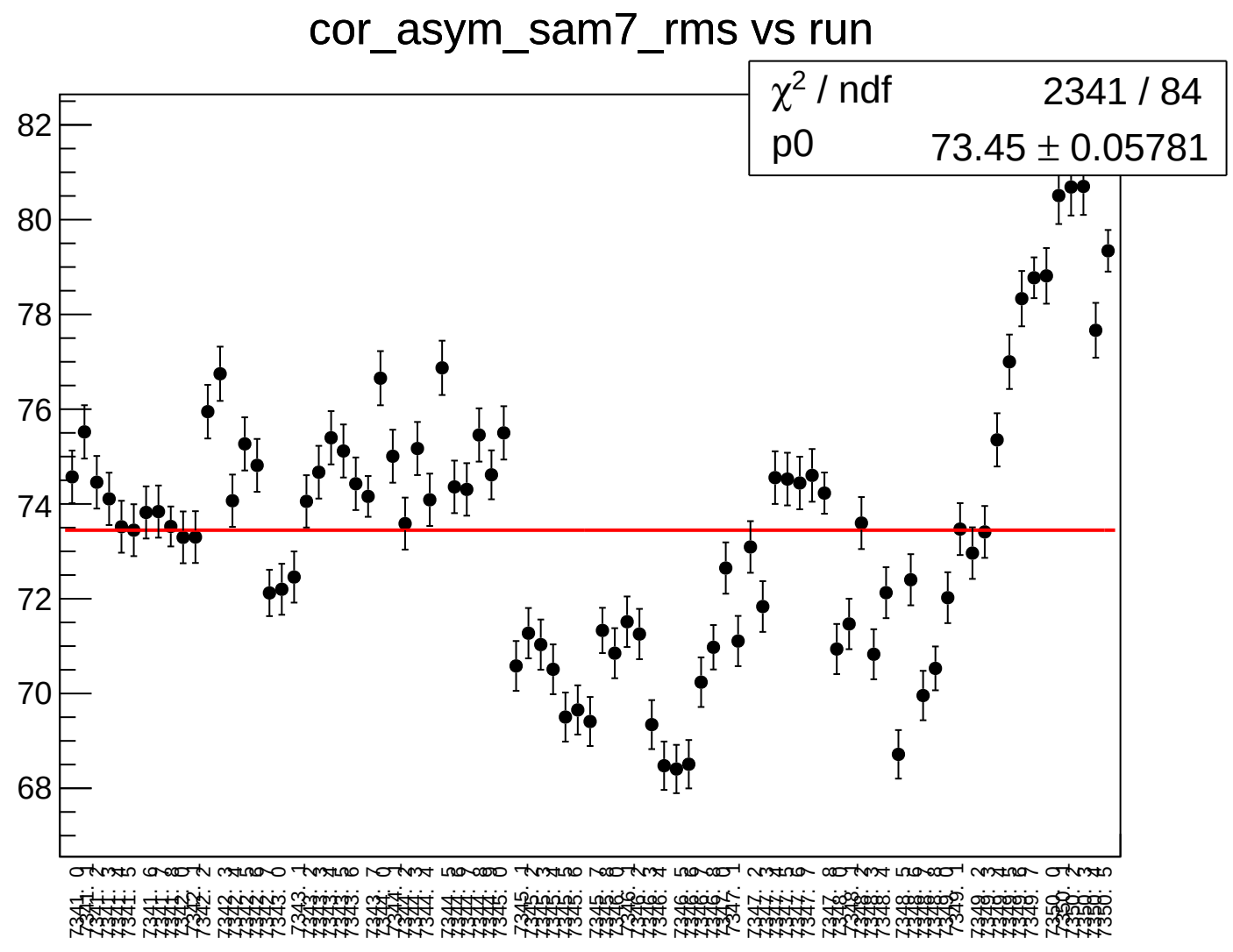

asym_sam7_reg_correction_mean vs run
χ² / ndf 82.05 / 84
p0 −276.1± 354.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −319.5
Std Dev 0
3
2
1
0
−1
−2

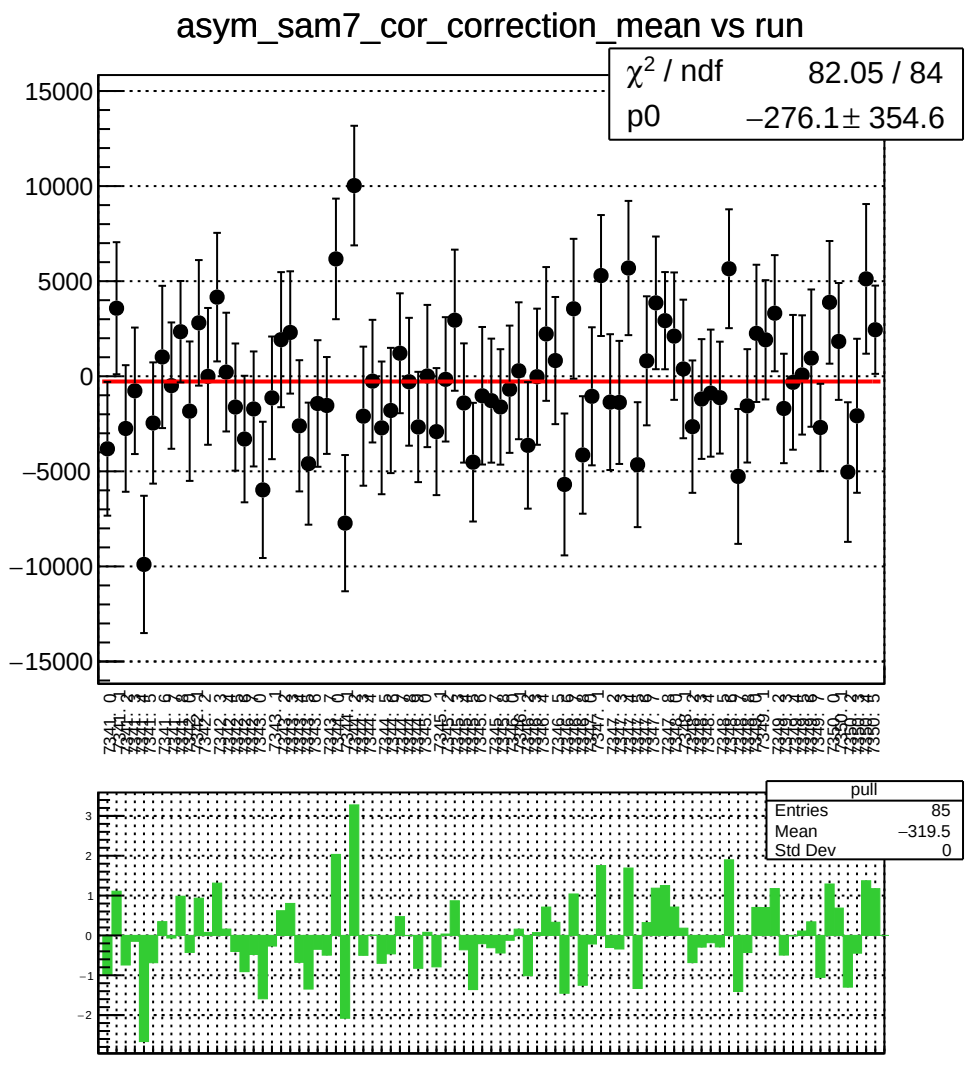

pull1D
Entries 85
Mean −0.0109
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

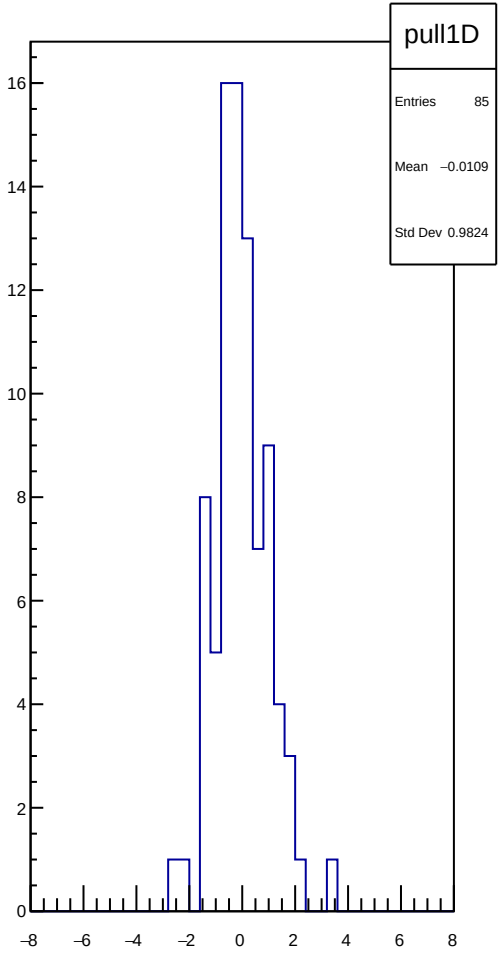

asym_sam7_reg_correction_rms vs run
χ² / ndf 6544 / 84
p0 318.2 ± 0.2508
380
360
340
320
300
280
260

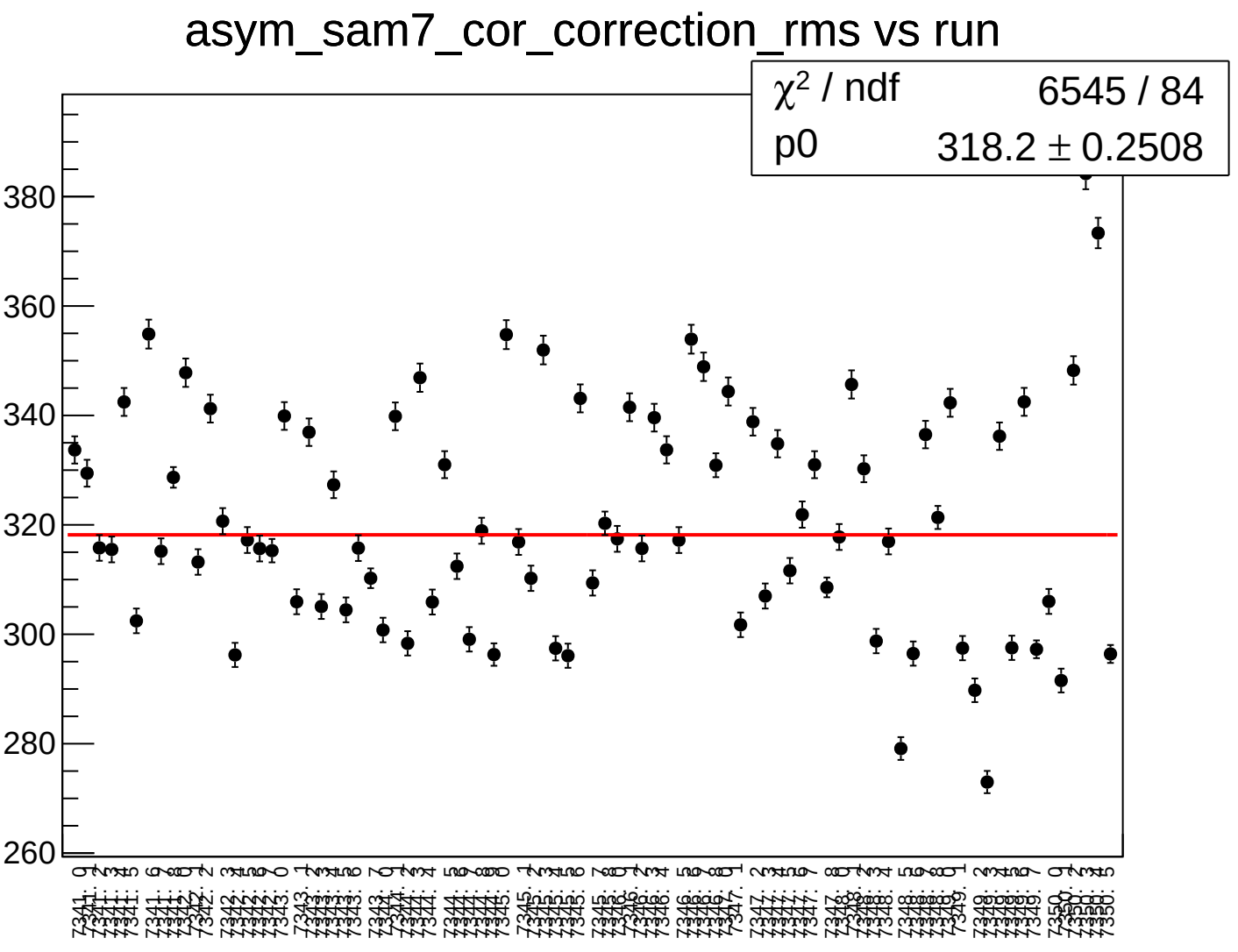

cor_asym_sam7_mean vs run
χ² / ndf 100.3 / 84
p0 146.1 ± 81.76
pull
Entries 85
Mean 130.6
Std Dev 44.91

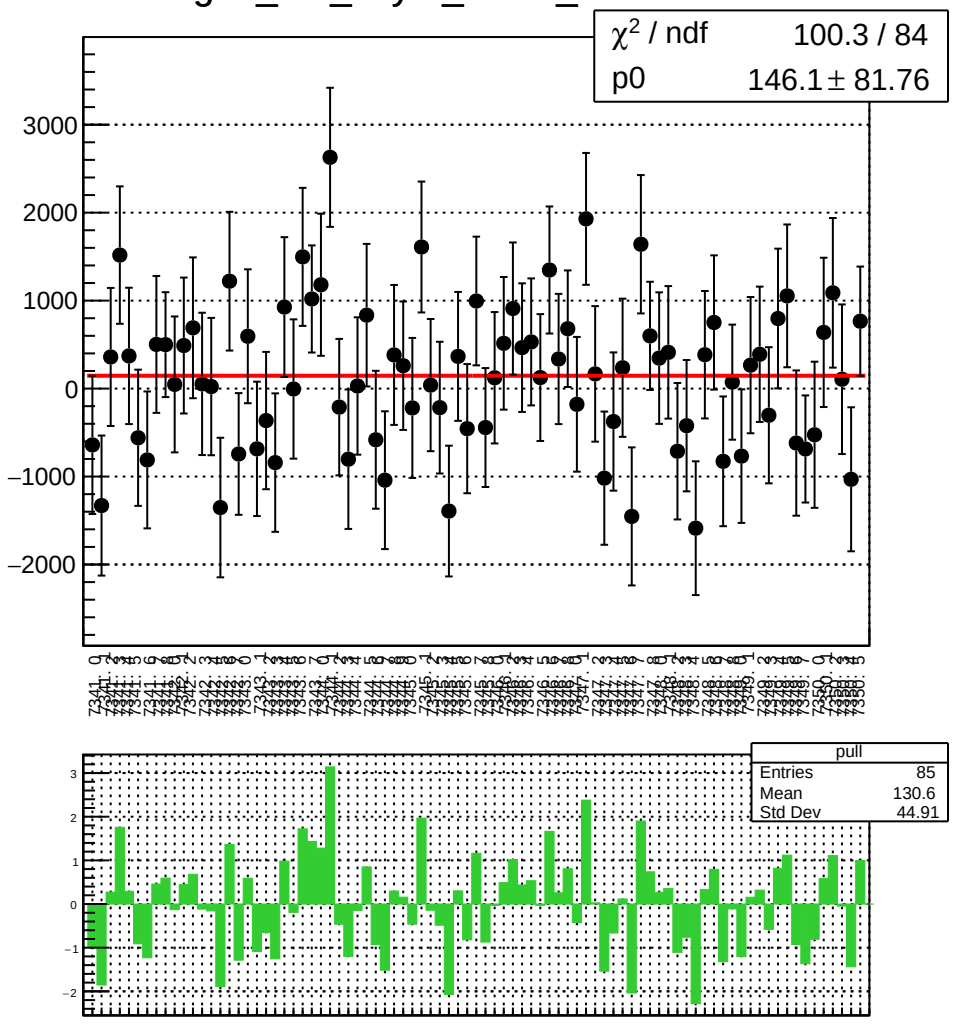

pull1D
Entries 85
Mean −0.00684
Std Dev 1.086

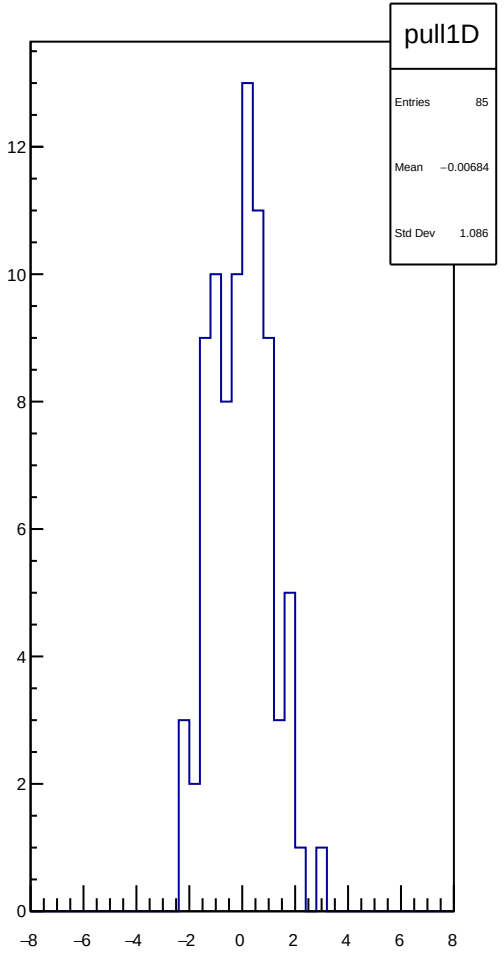

cor_asym_sam7_rms vs run
χ^2 / ndf 2341 / 84
p0 73.45 ± 0.05781
82
80
78
76
74
72
70
68

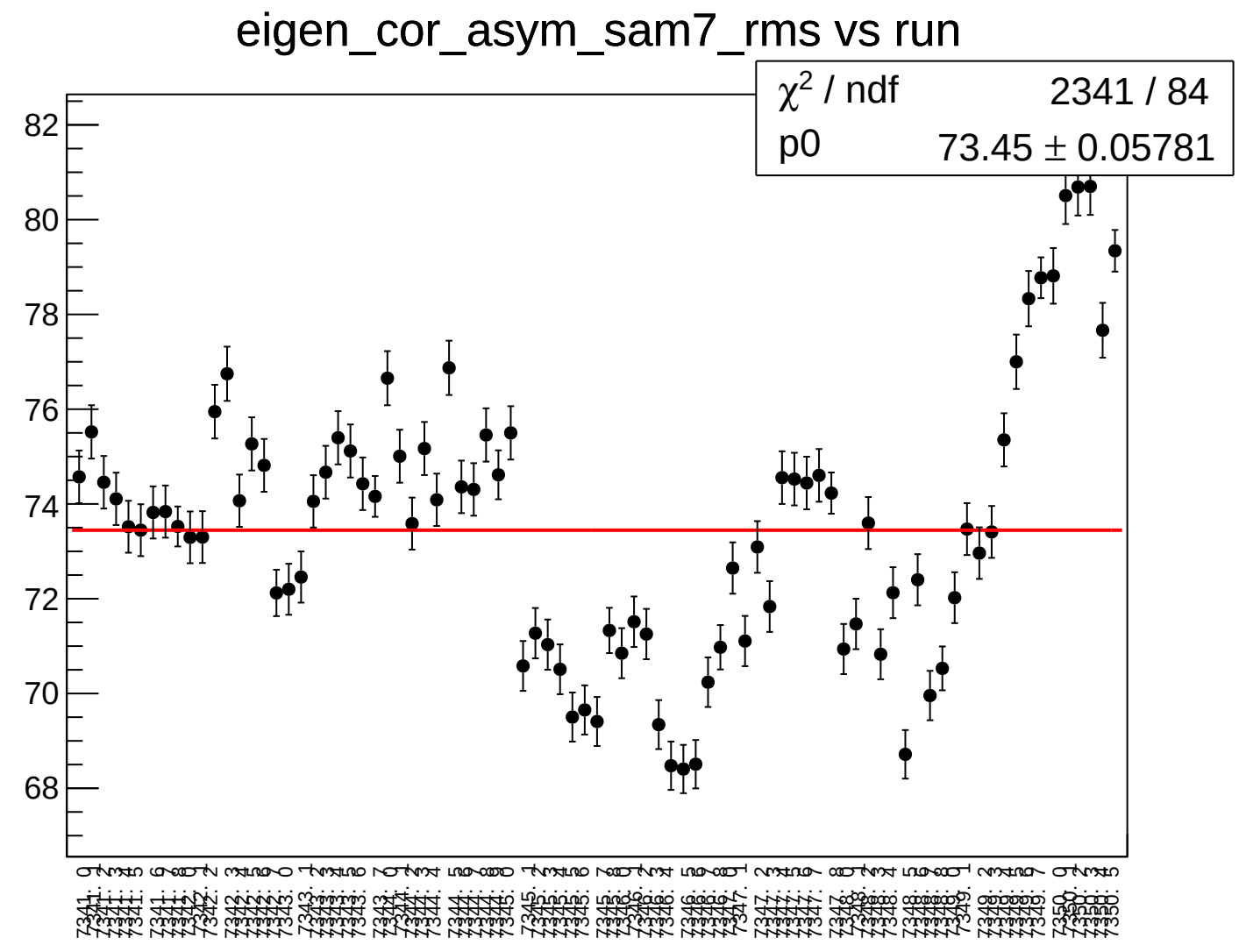

asym_sam7_cor_correction_mean vs run
χ² / ndf 82.05 / 84
p0 −276.1± 354.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −319.5
Std Dev 0

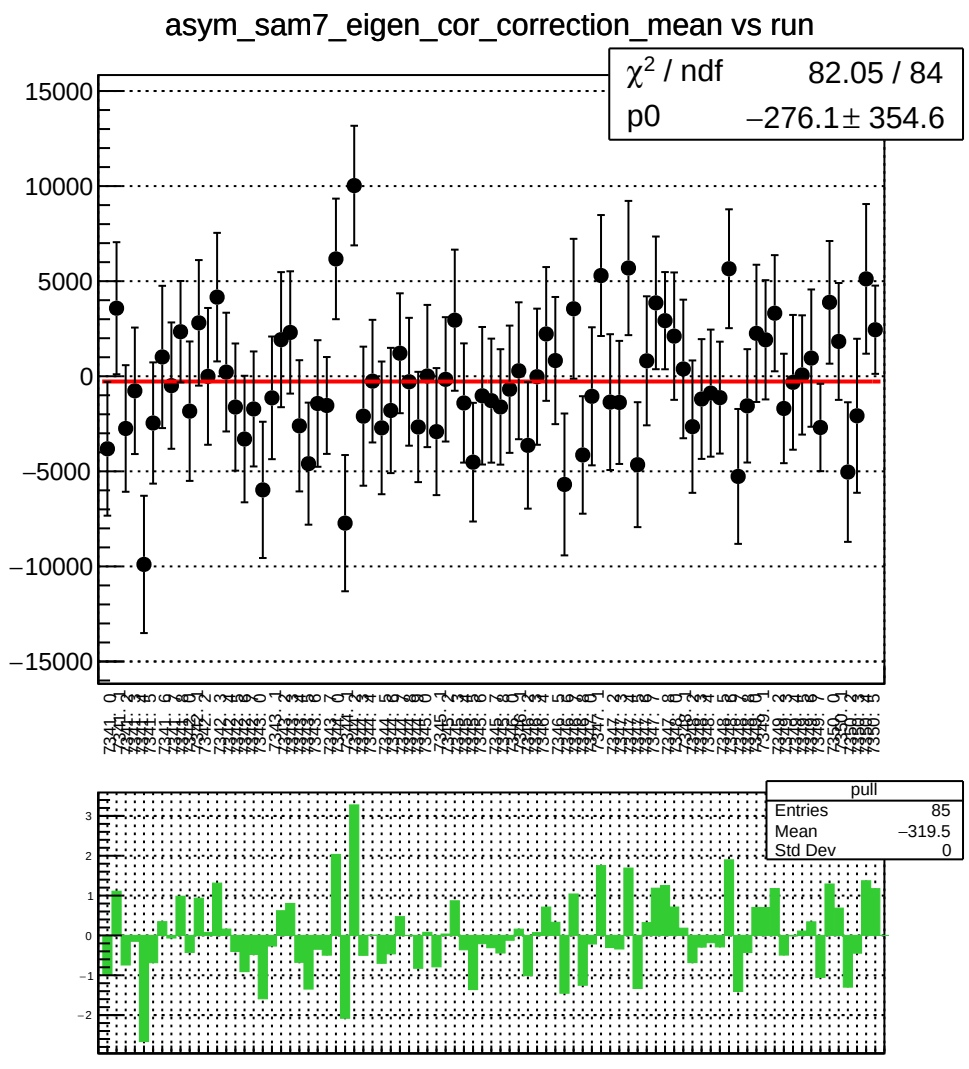

pull1D
Entries 85
Mean −0.0109
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

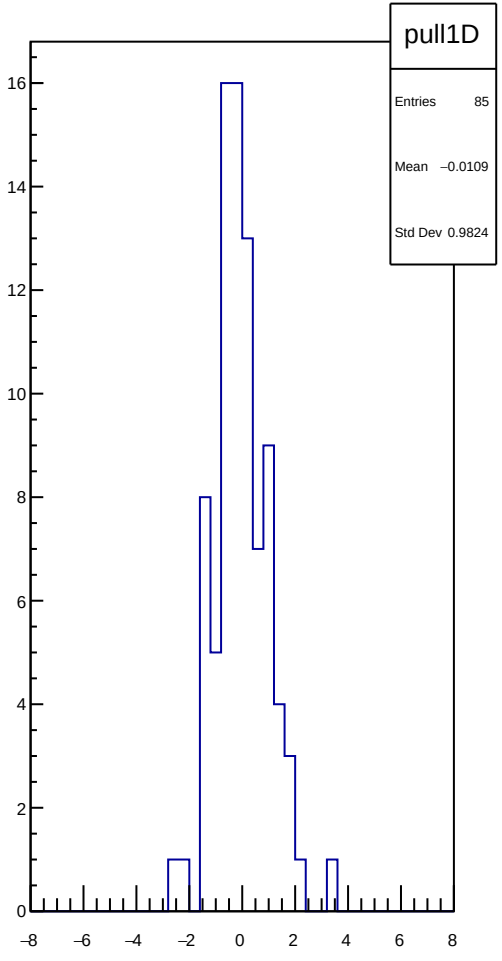

asym_sam7_cor_correction_rms vs run
χ² / ndf 6545 / 84
p0 318.2 ± 0.2508
380
360
340
320
300
280
260

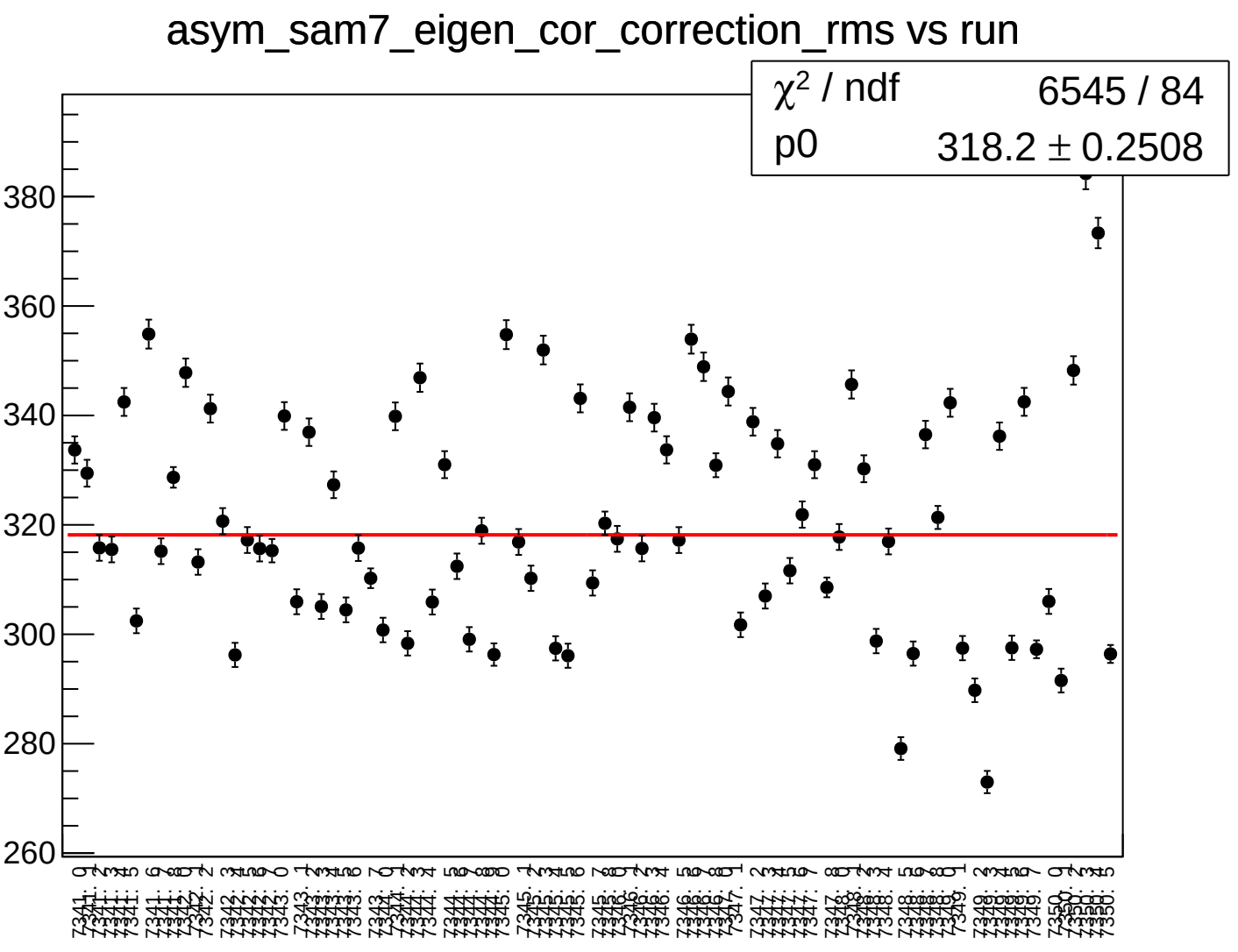

eigen_cor_asym_sam7_mean vs run
χ² / ndf 100.3 / 84
p0 146.1 ± 81.76
3000
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 130.6
Std Dev 44.91
3
2
1
0
−1
−2

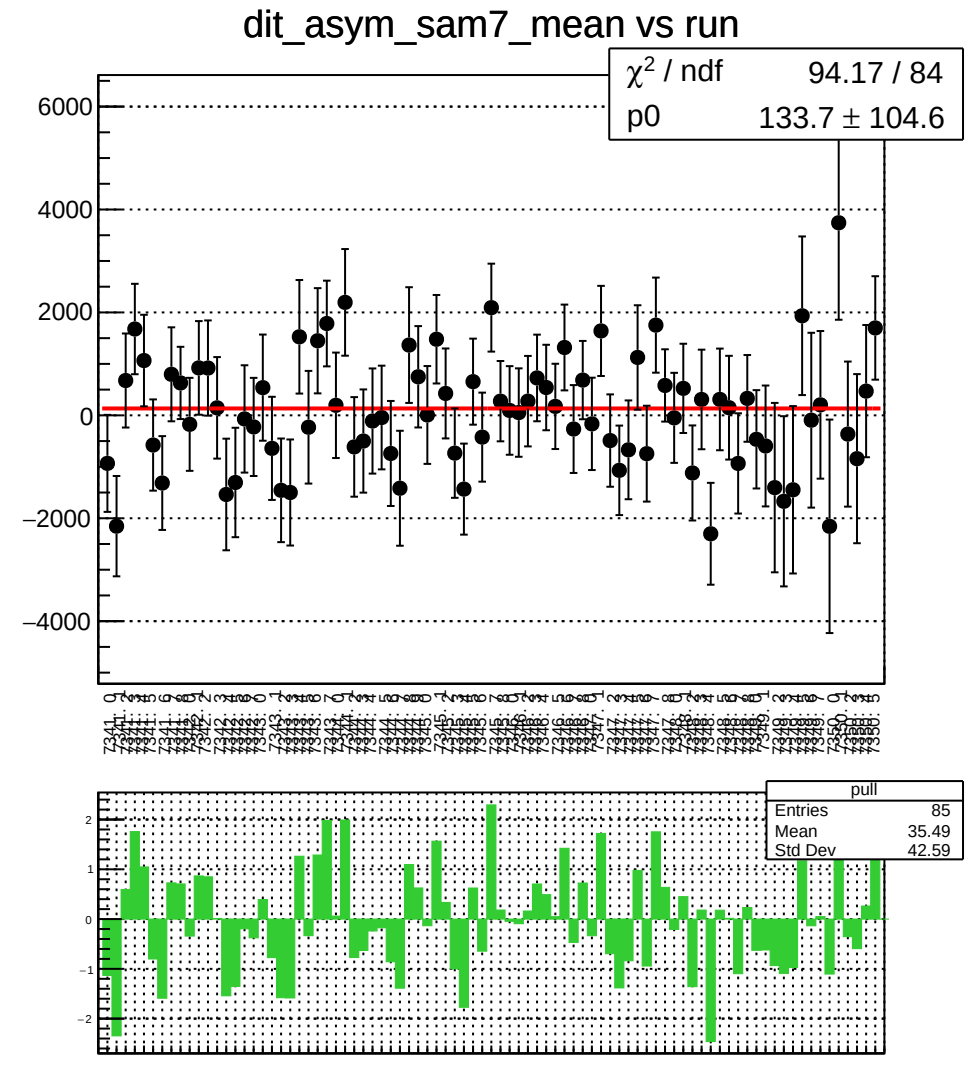

pull1D
Entries 85
Mean −0.00684
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

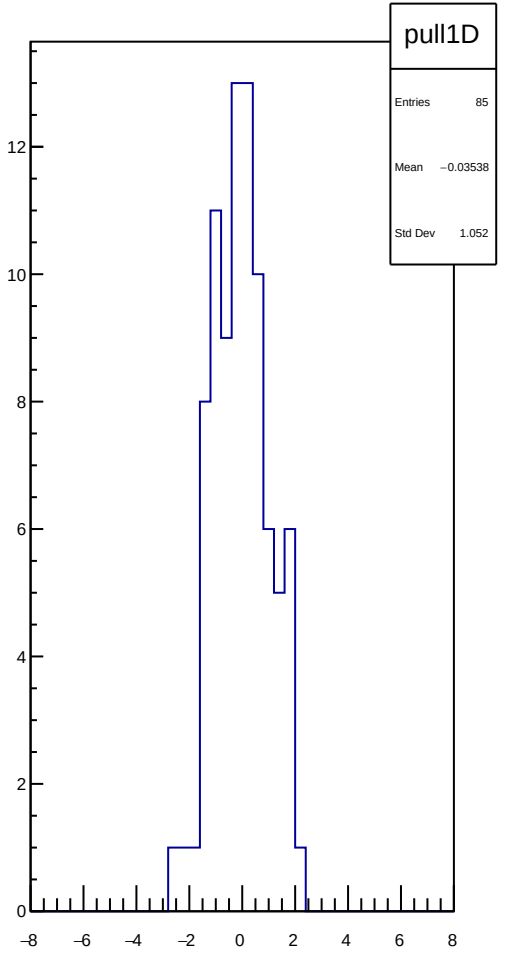

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 2341 / 84
p0 73.45 ± 0.05781
82
80
78
76
74
72
70
68

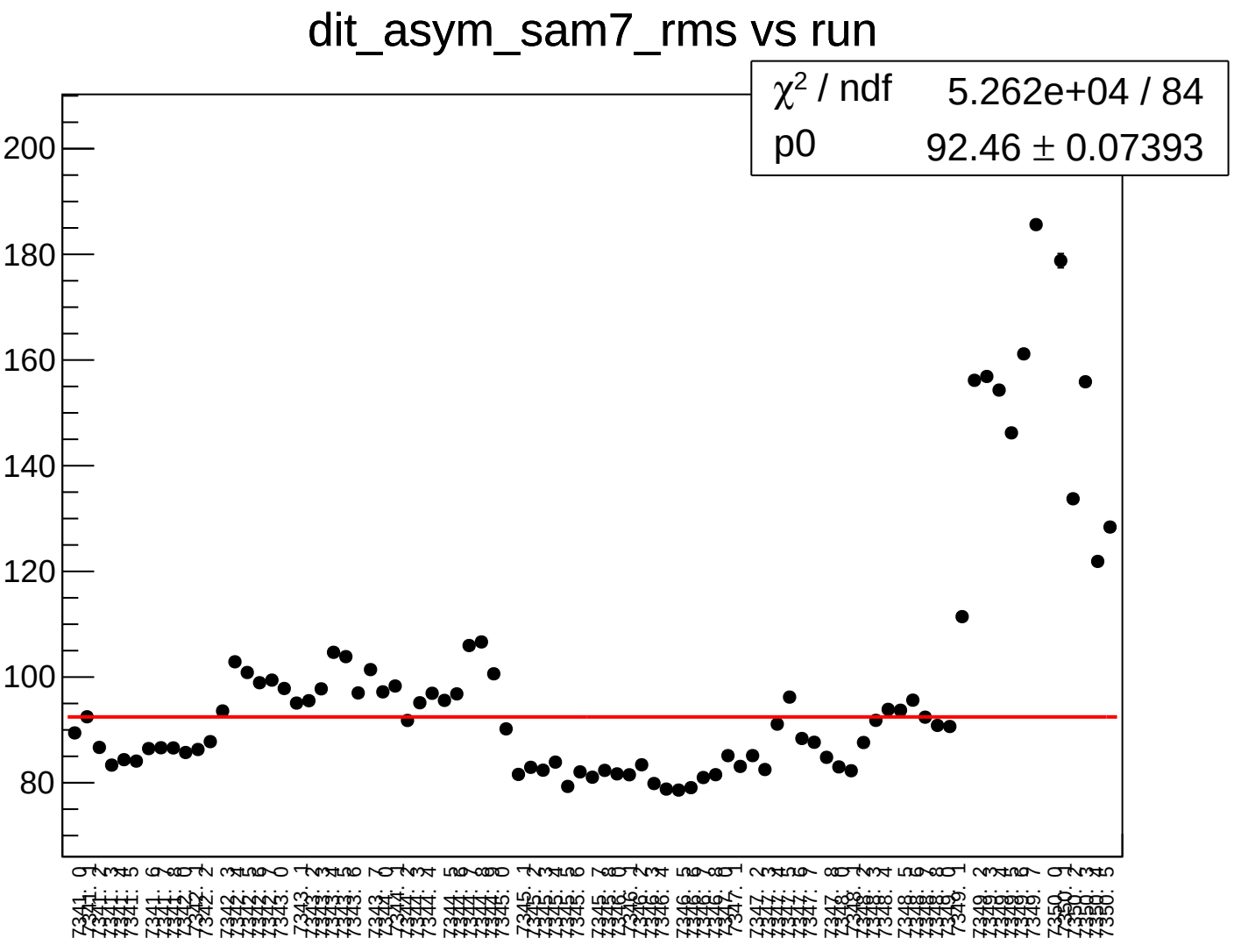

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 82.05 / 84
p0 −276.1± 354.6
pull
Entries 85
Mean −319.5
Std Dev 0

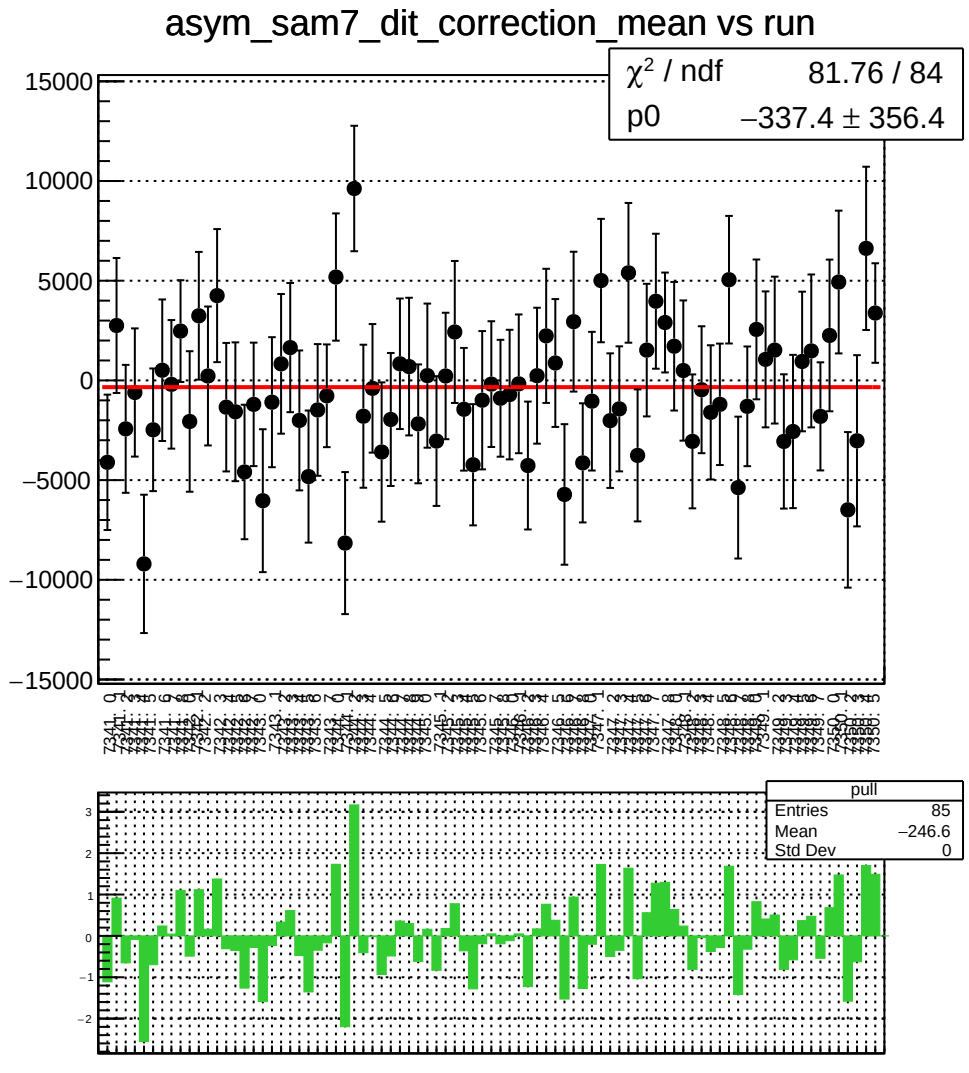

pull1D
Entries 85
Mean −0.0109
Std Dev 0.9824

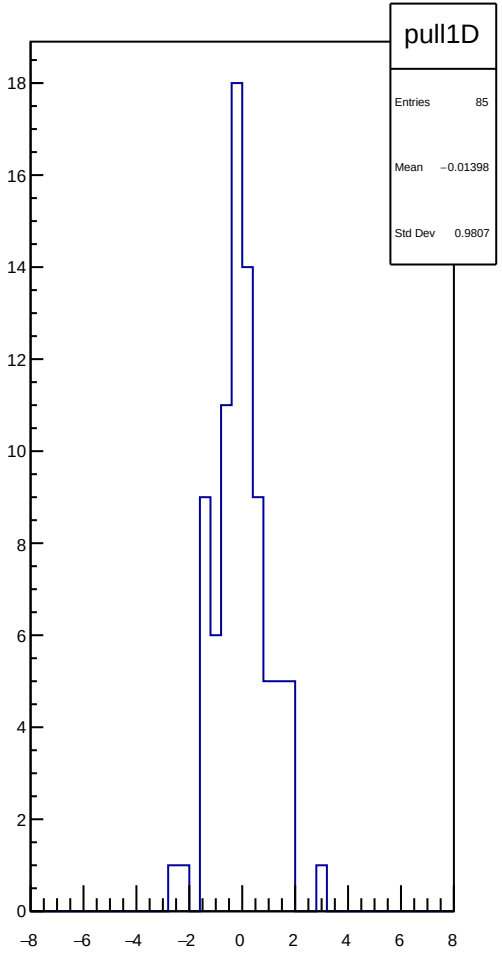

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 6545 / 84
p0 318.2 ± 0.2508
380
360
340
320
300
280
260

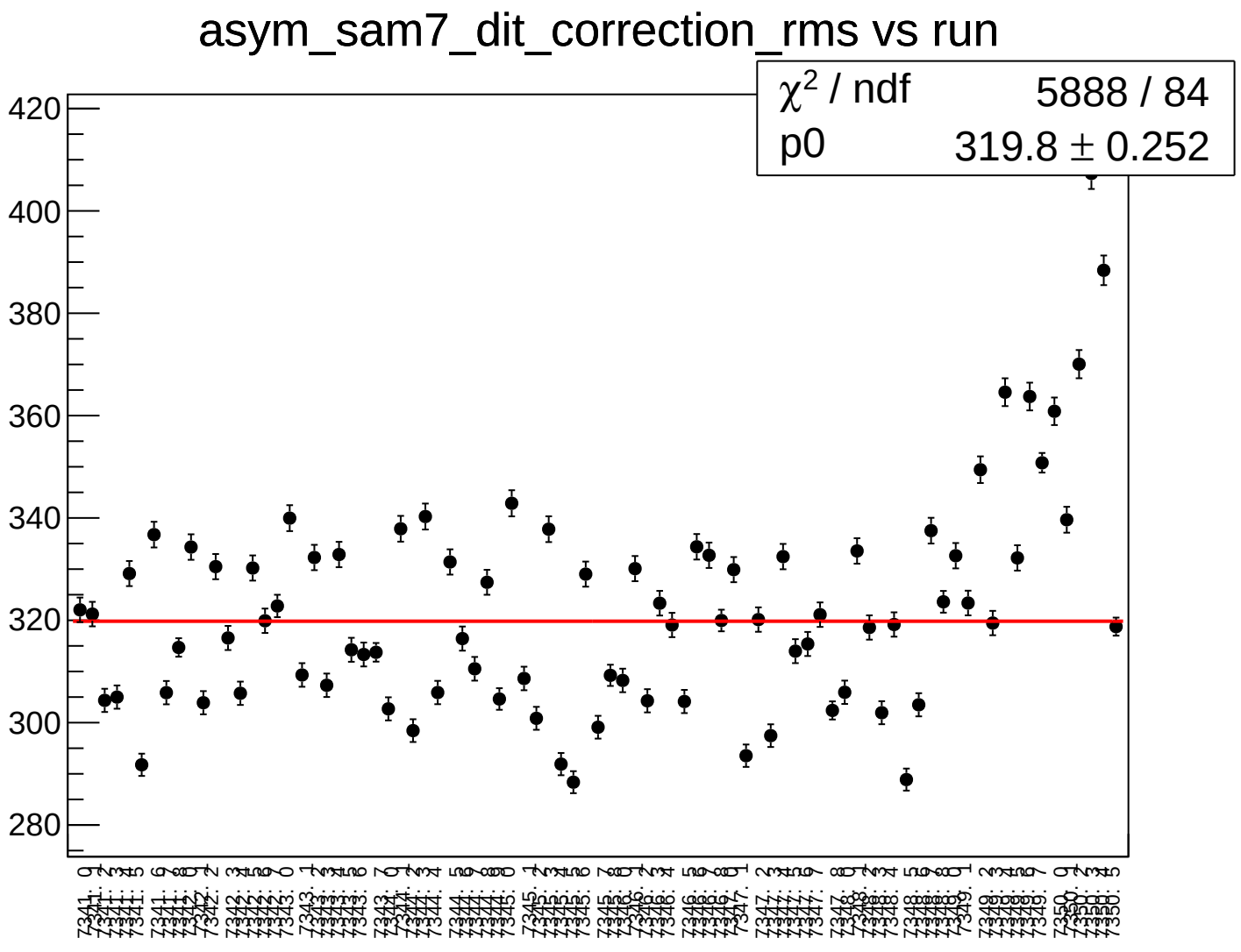

dit_asym_sam7_mean vs run
χ² / ndf 94.17 / 84
p0 133.7 ± 104.6
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 35.49
Std Dev 42.59
2
1
0
−1
−2

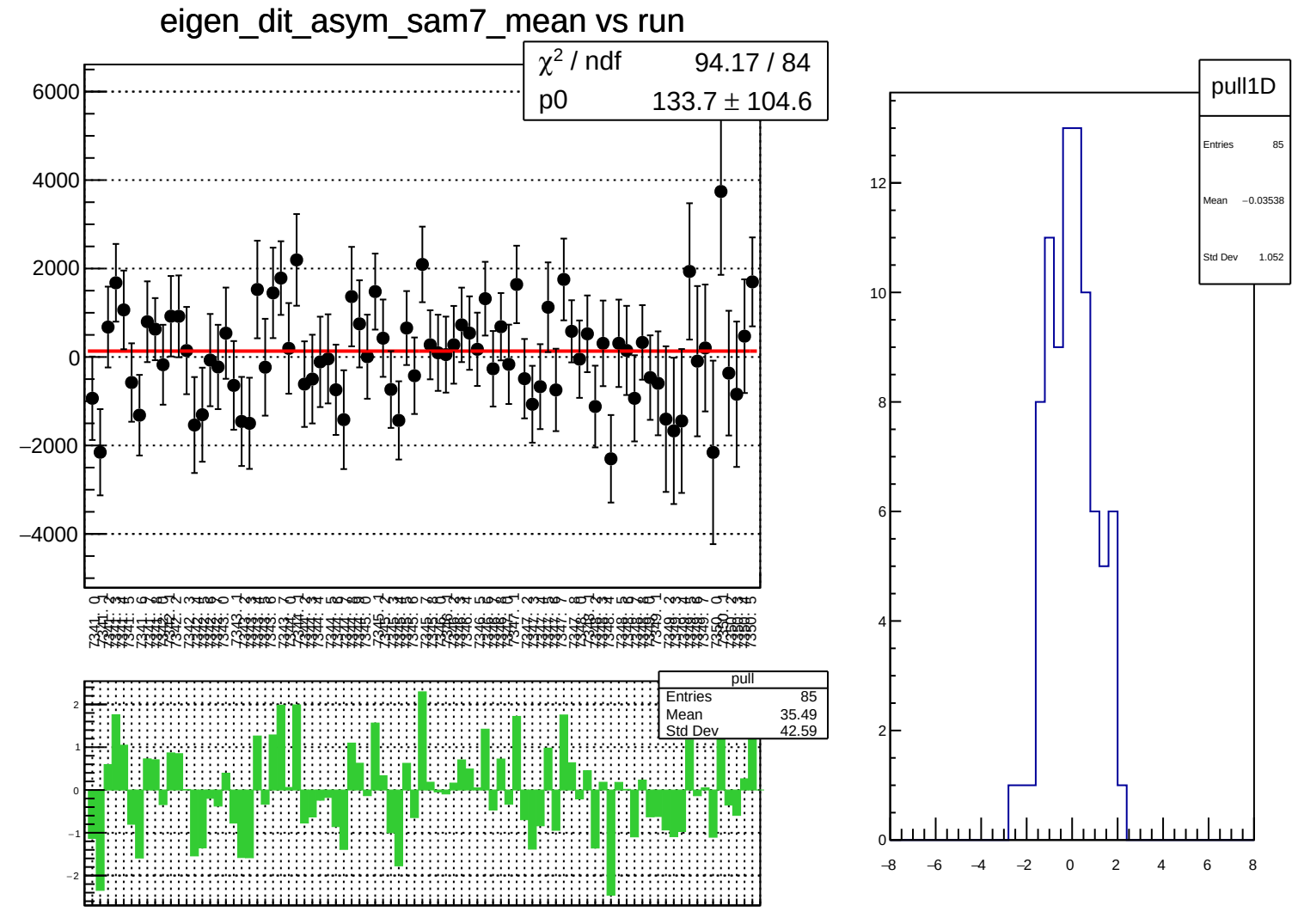

pull1D
Entries 85
Mean −0.03538
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

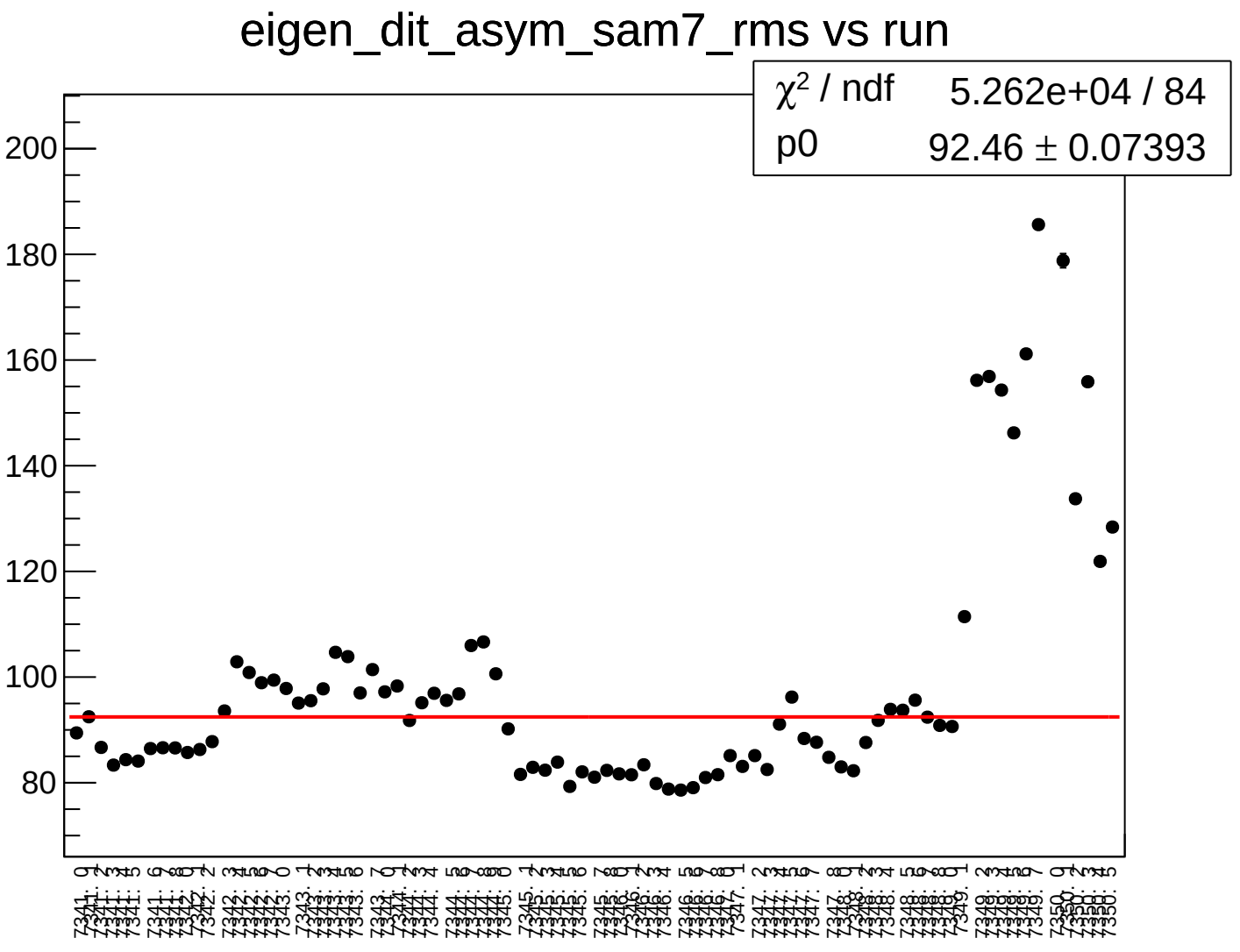

dit_asym_sam7_rms vs run
χ^2 / ndf 5.262e+04 / 84
p0 92.46 ± 0.07393
200
180
160
140
120
100
80

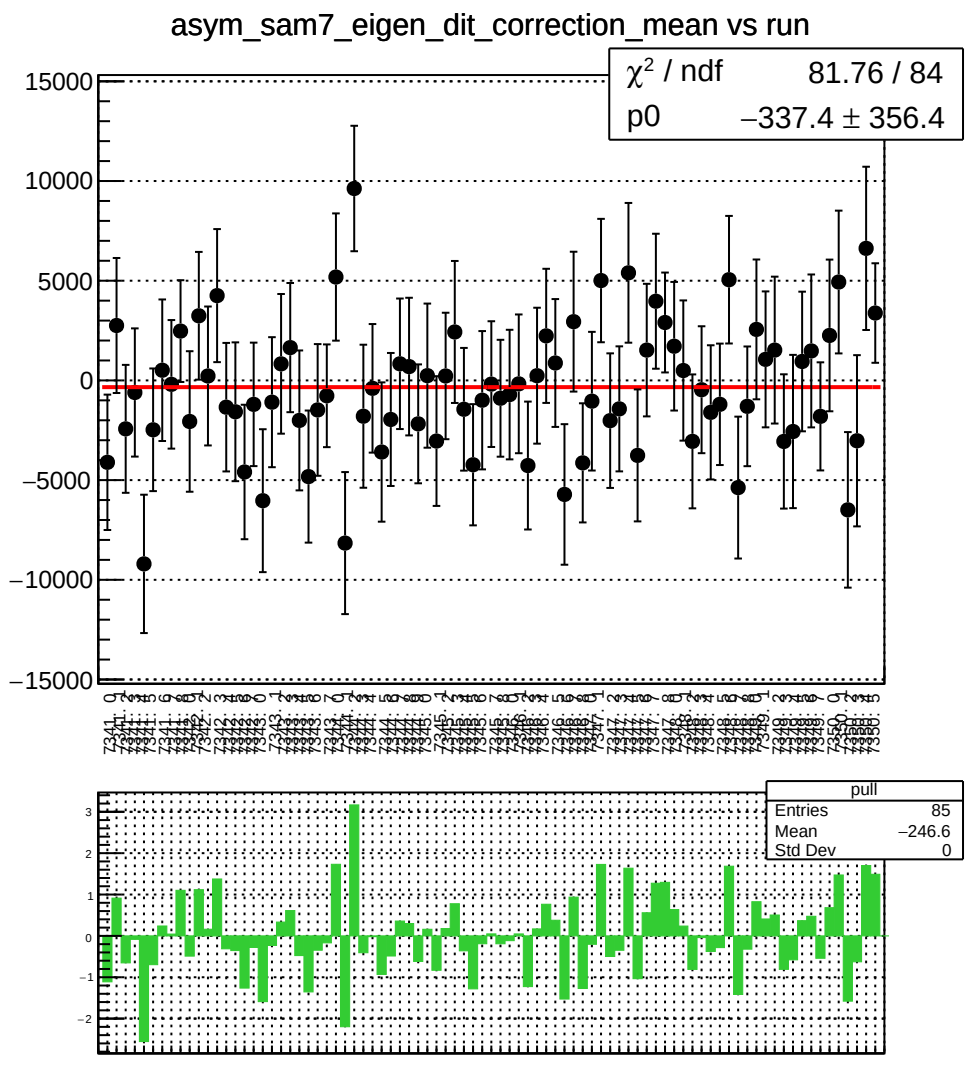

asym_sam7_dit_correction_mean vs run
χ² / ndf 81.76 / 84
p0 −337.4 ± 356.4
pull
Entries 85
Mean −246.6
Std Dev 0

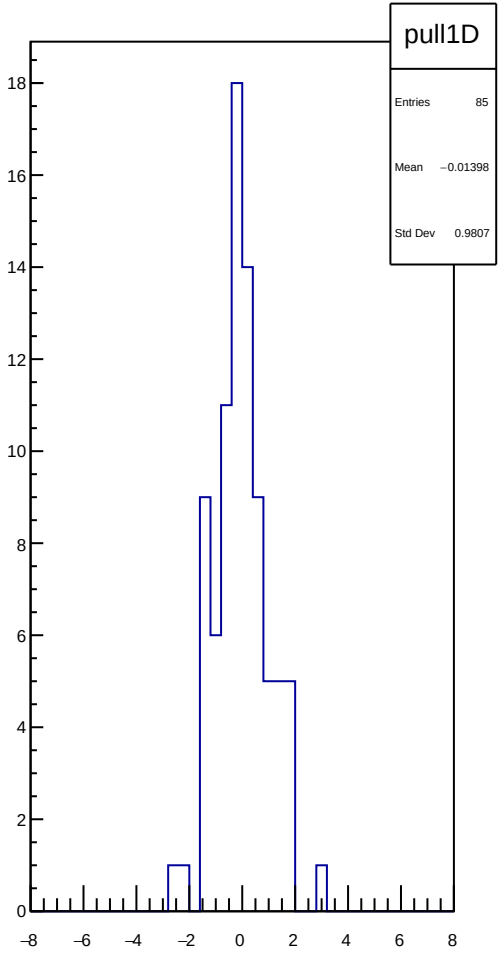

pull1D
Entries 85
Mean −0.01398
Std Dev 0.9807

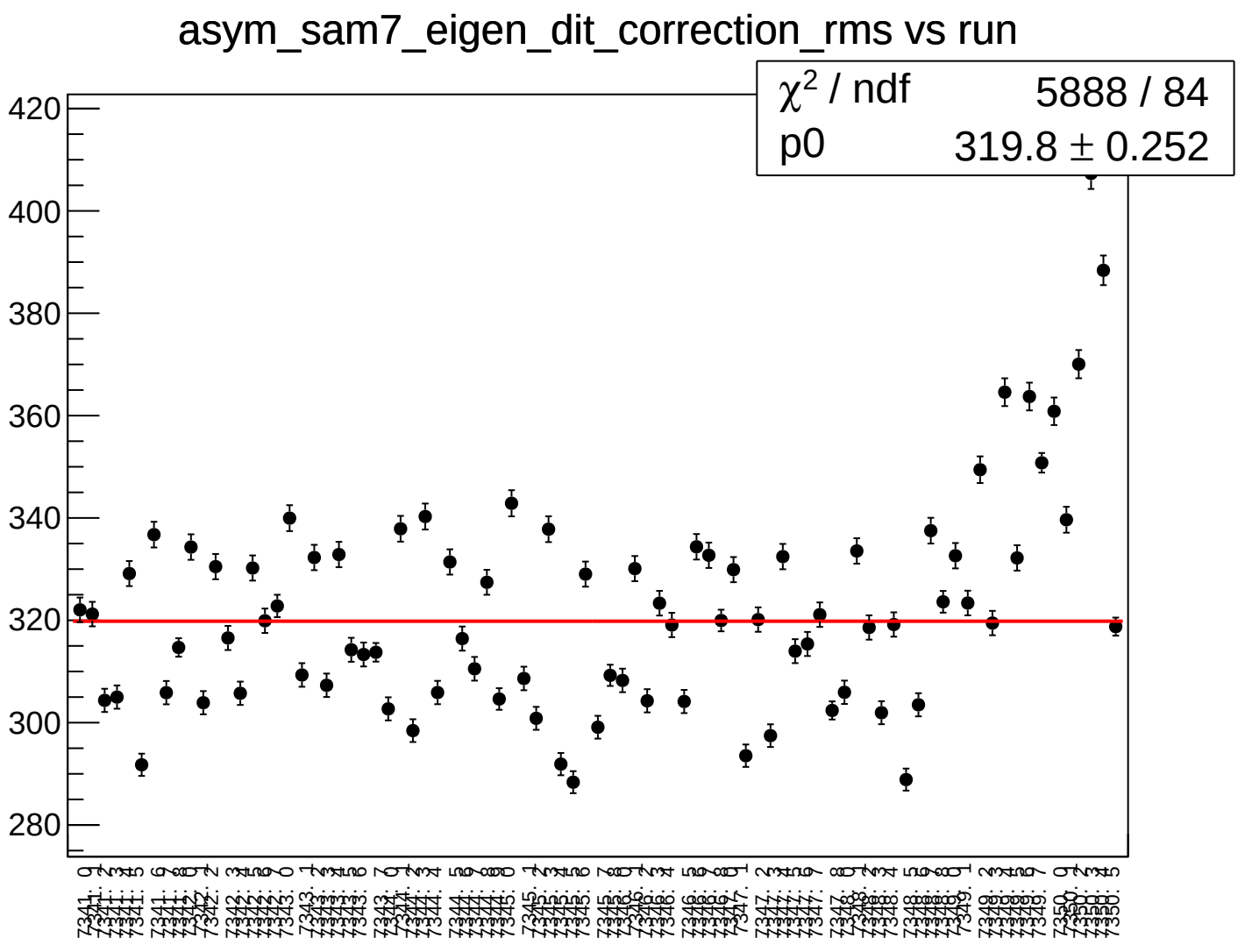

asym_sam7_dit_correction_rms vs run
χ² / ndf 5888 / 84
p0 319.8 ± 0.252
420
400
380
360
340
320
300
280

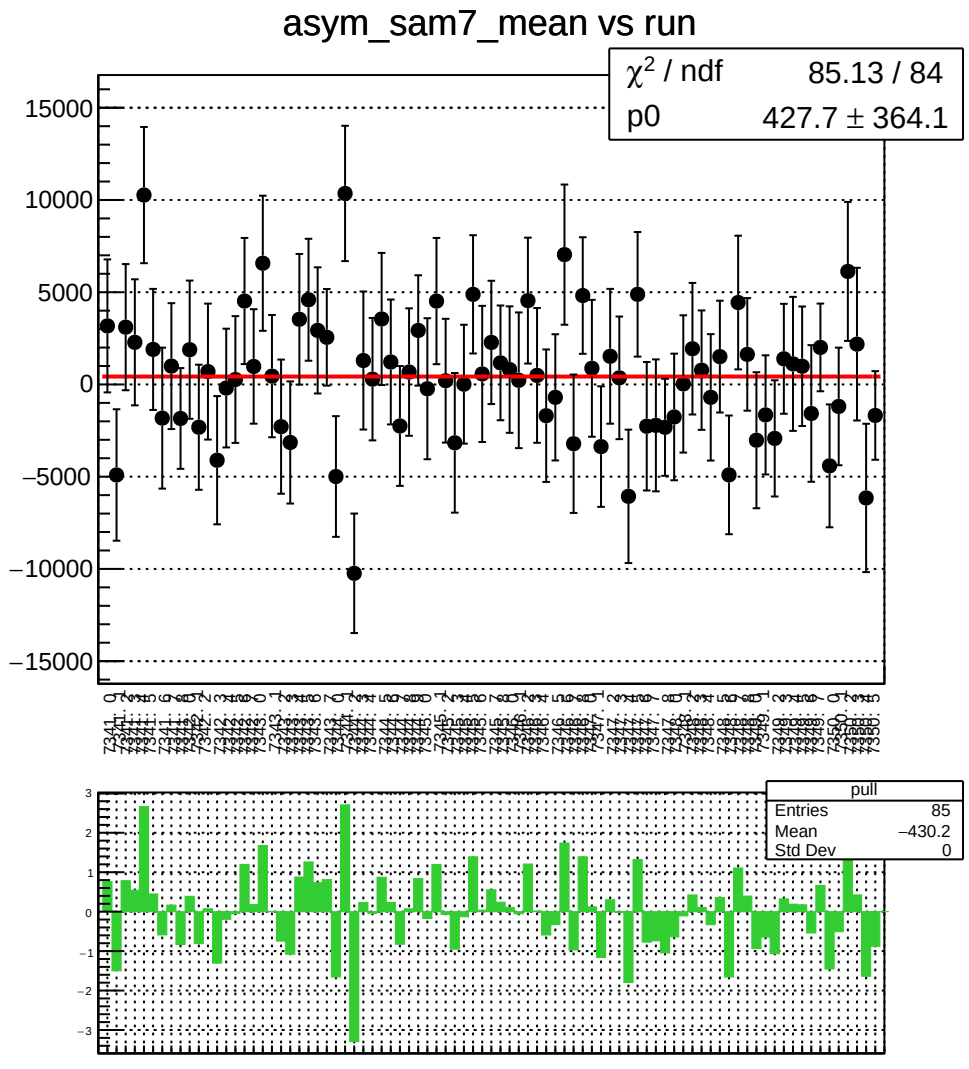

eigen_dit_asym_sam7_mean vs run
χ² / ndf 94.17 / 84
p0 133.7 ± 104.6
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 35.49
Std Dev 42.59
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.03538
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

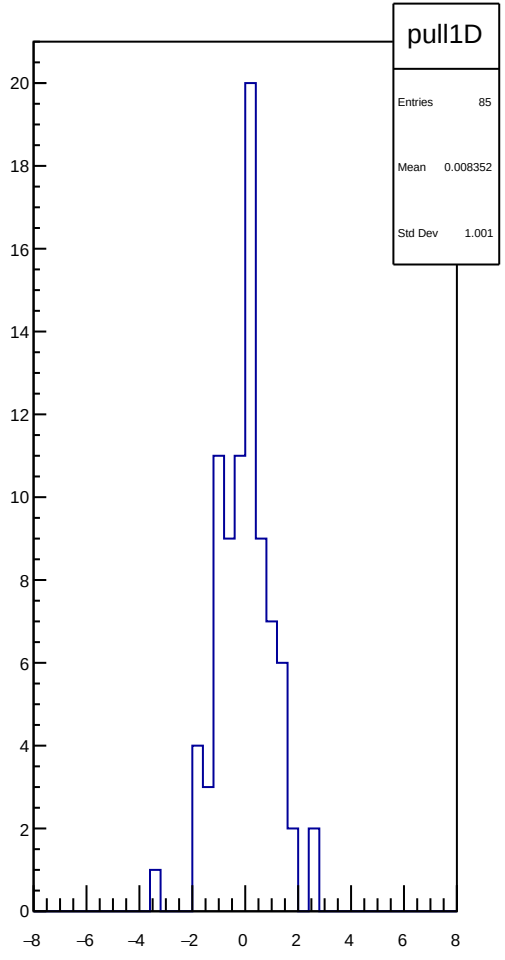

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 5.262e+04 / 84
p0 92.46 ± 0.07393
200
180
160
140
120
100
80

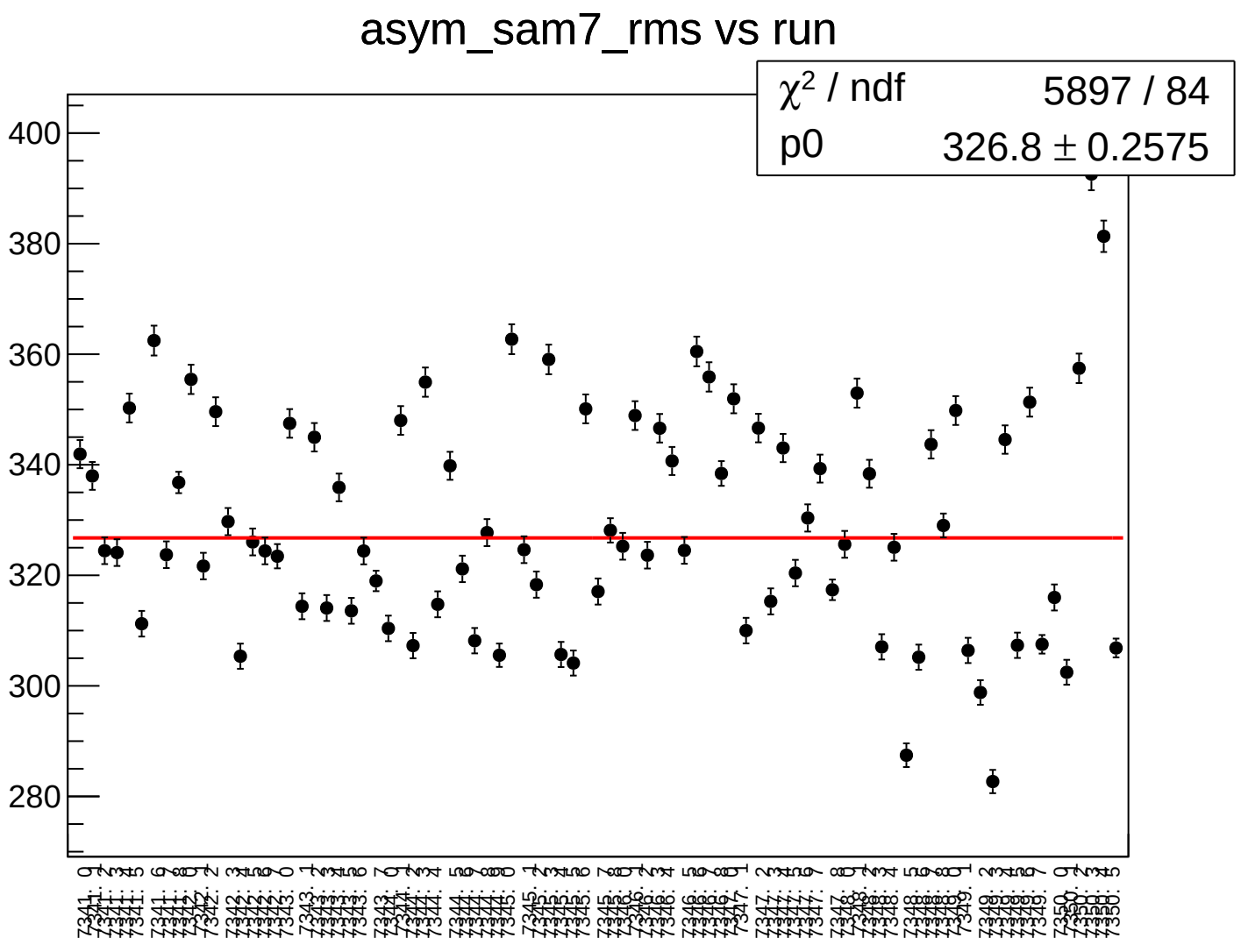

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 81.76 / 84
p0 −337.4 ± 356.4
pull
Entries 85
Mean −246.6
Std Dev 0

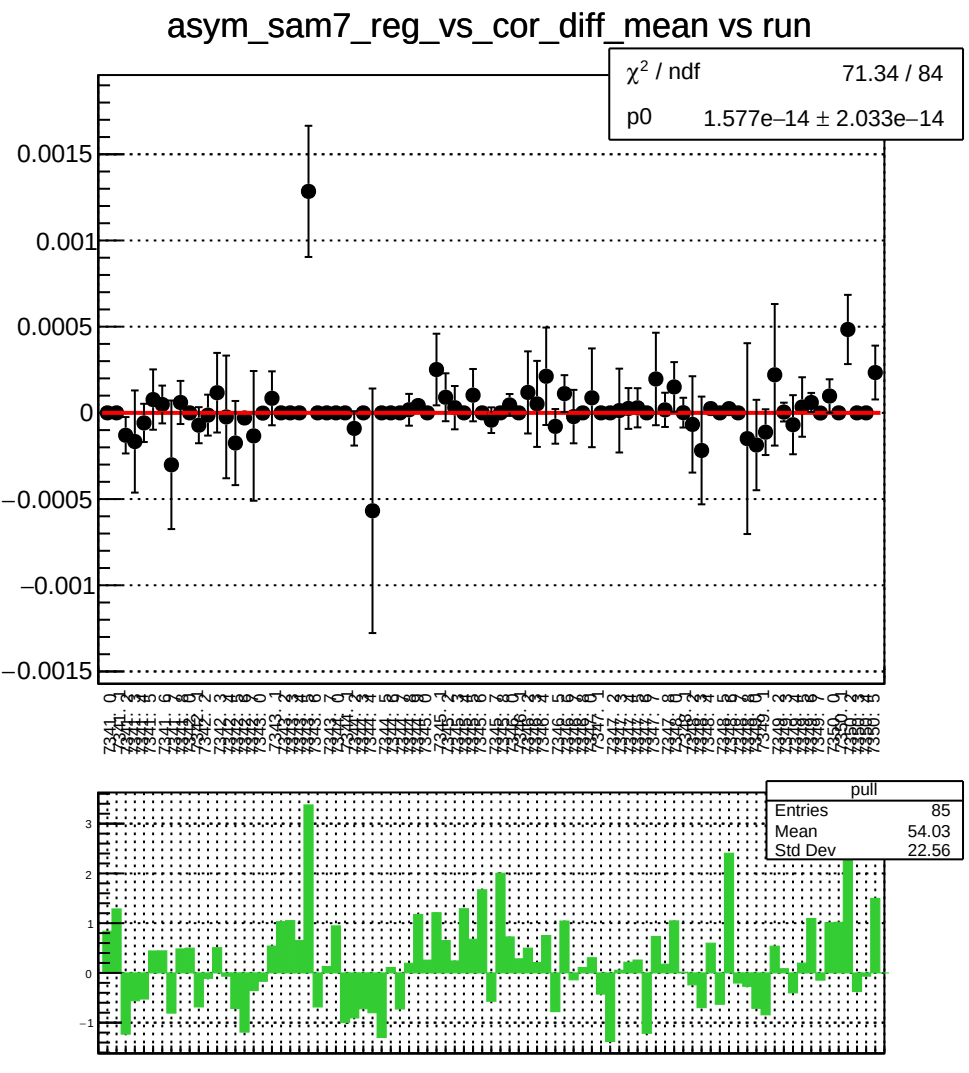

pull1D
Entries 85
Mean −0.01398
Std Dev 0.9807

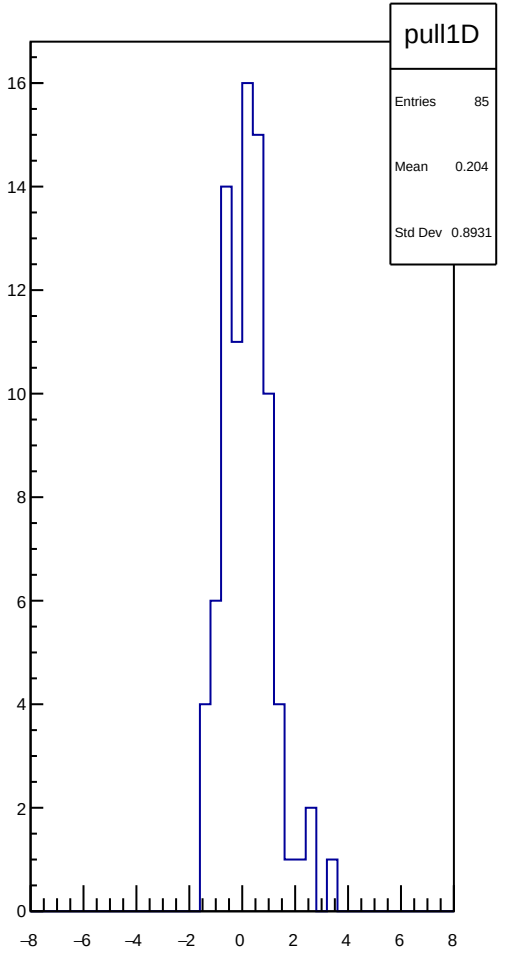

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 5888 / 84
p0 319.8 ± 0.252
420
400
380
360
340
320
300
280

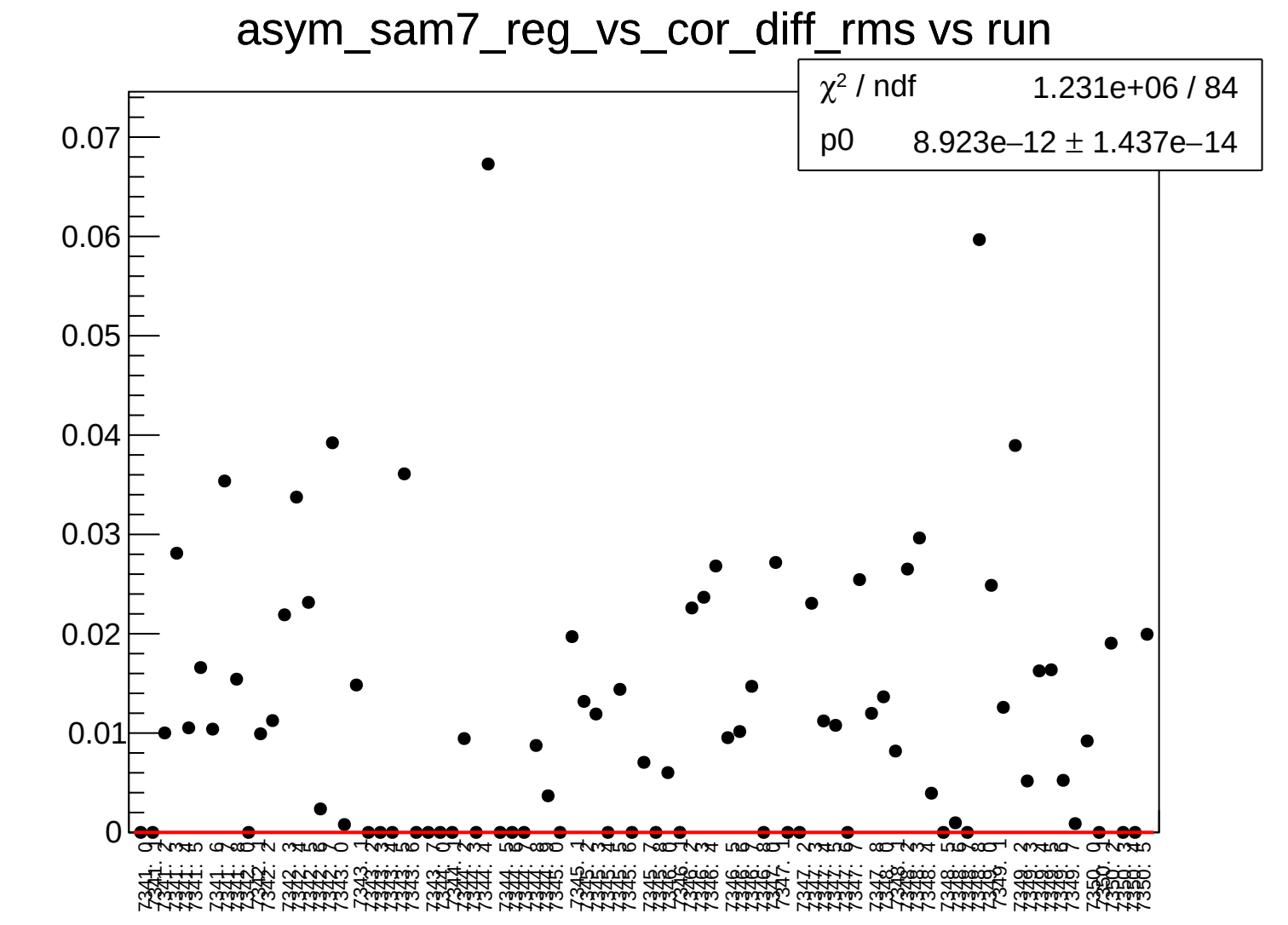

asym_sam7_mean vs run
χ² / ndf 85.13 / 84
p0 427.7 ± 364.1
pull
Entries 85
Mean −430.2
Std Dev 0

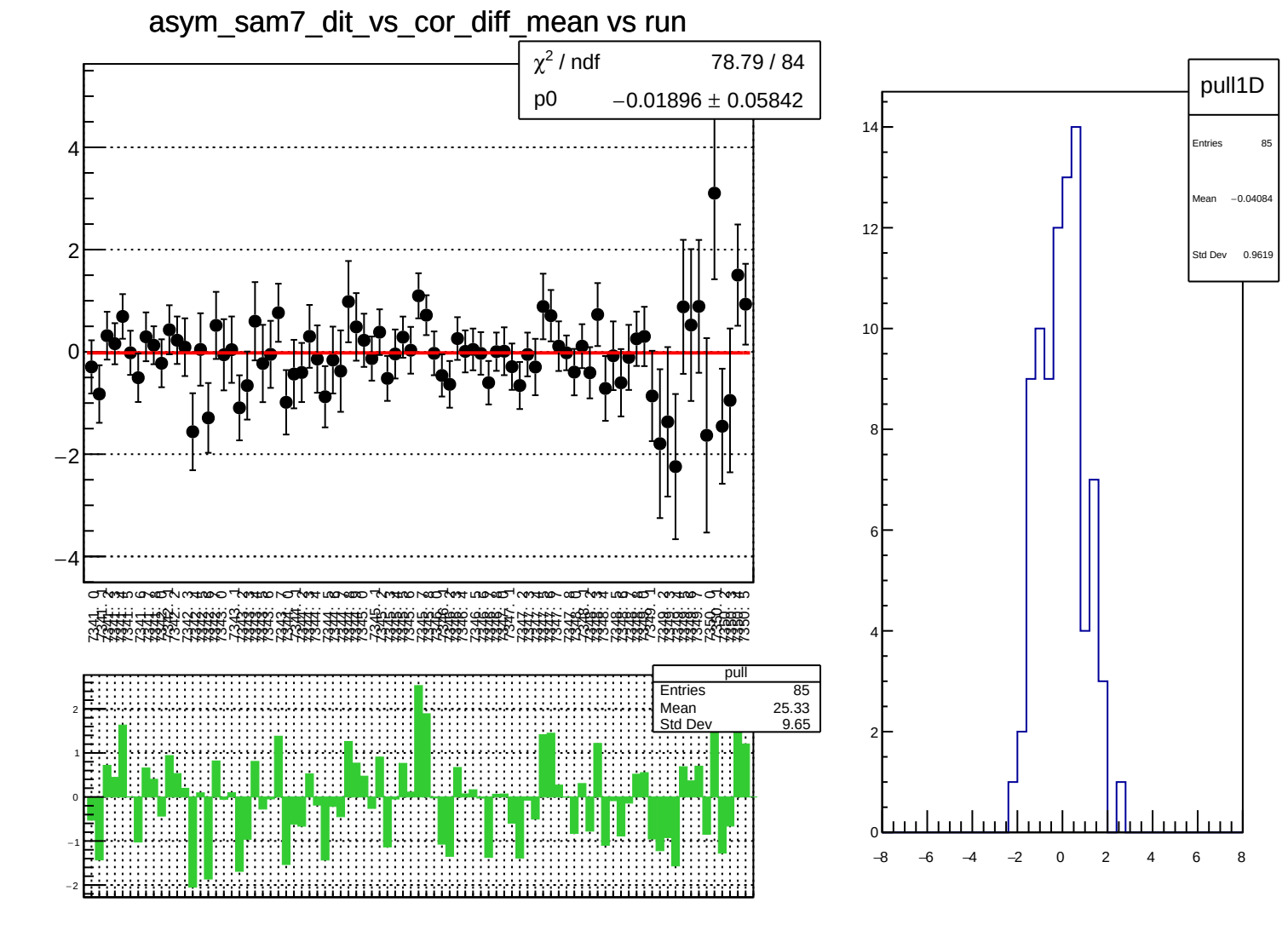

pull1D
Entries 85
Mean 0.008352
Std Dev 1.001

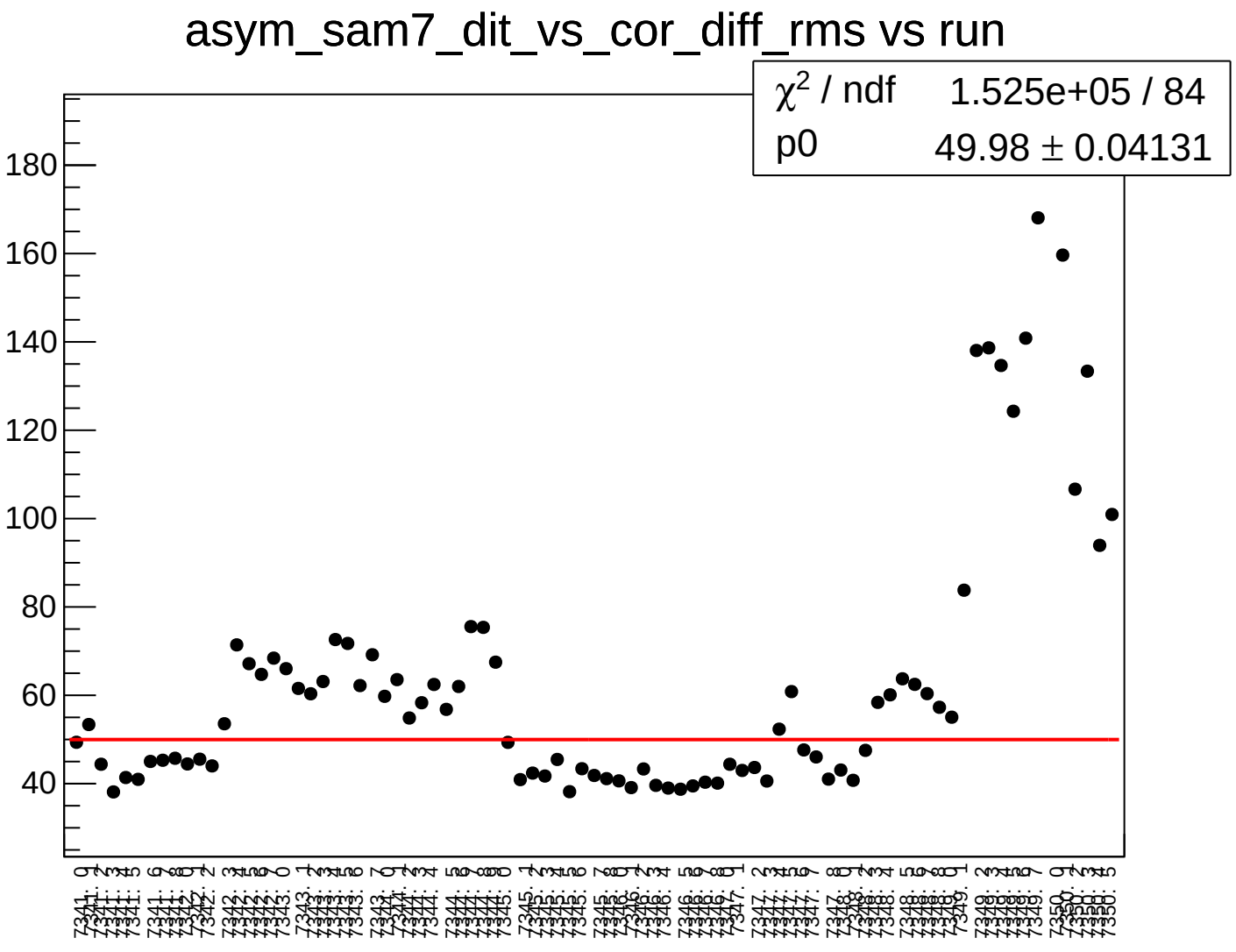

asym_sam7_rms vs run
χ² / ndf 5897 / 84
p0 326.8 ± 0.2575
400
380
360
340
320
300
280

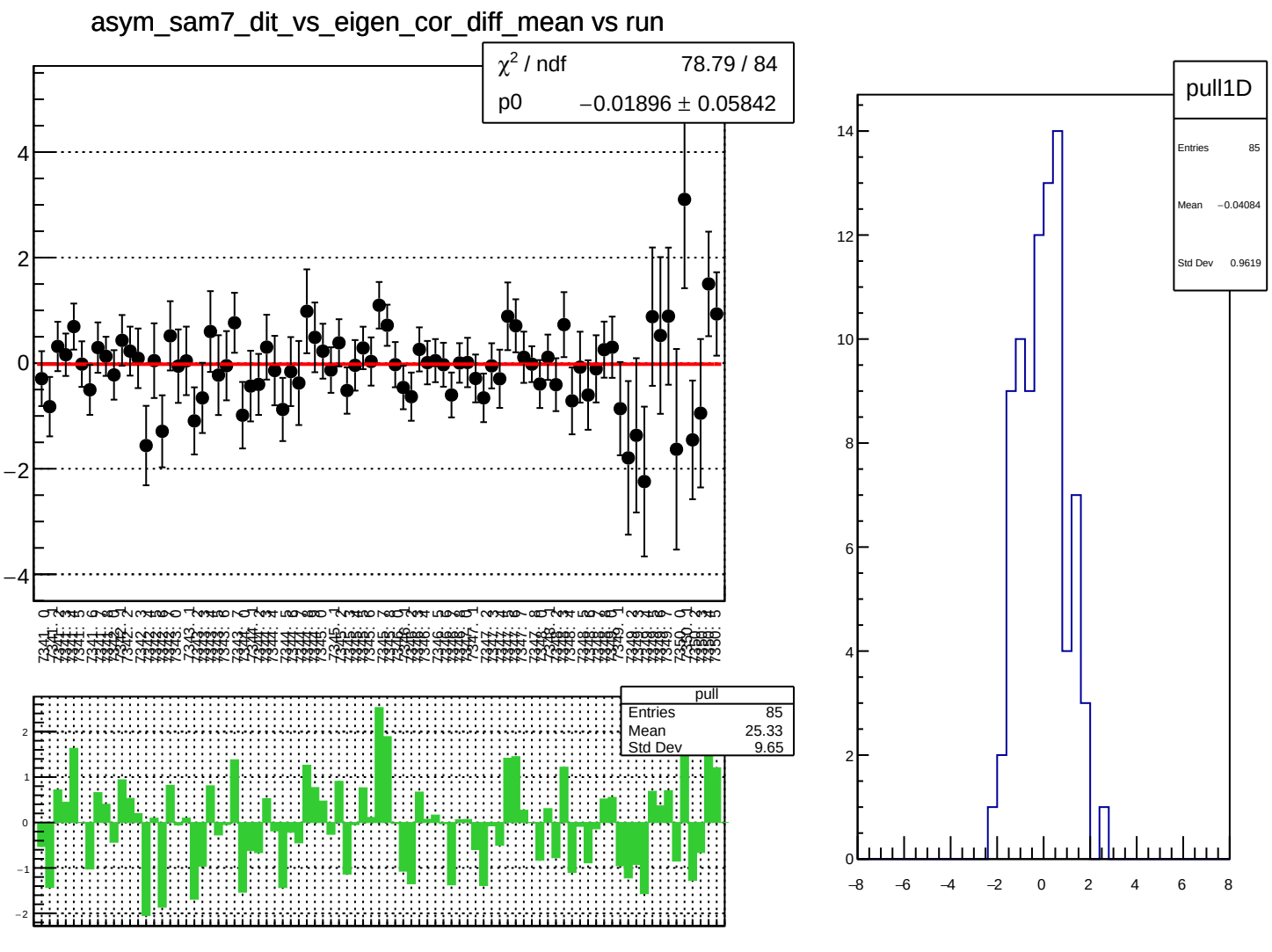

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 71.34 / 84
p0 1.577e−14 ± 2.033e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 54.03
Std Dev 22.56
3
2
1
0
−1

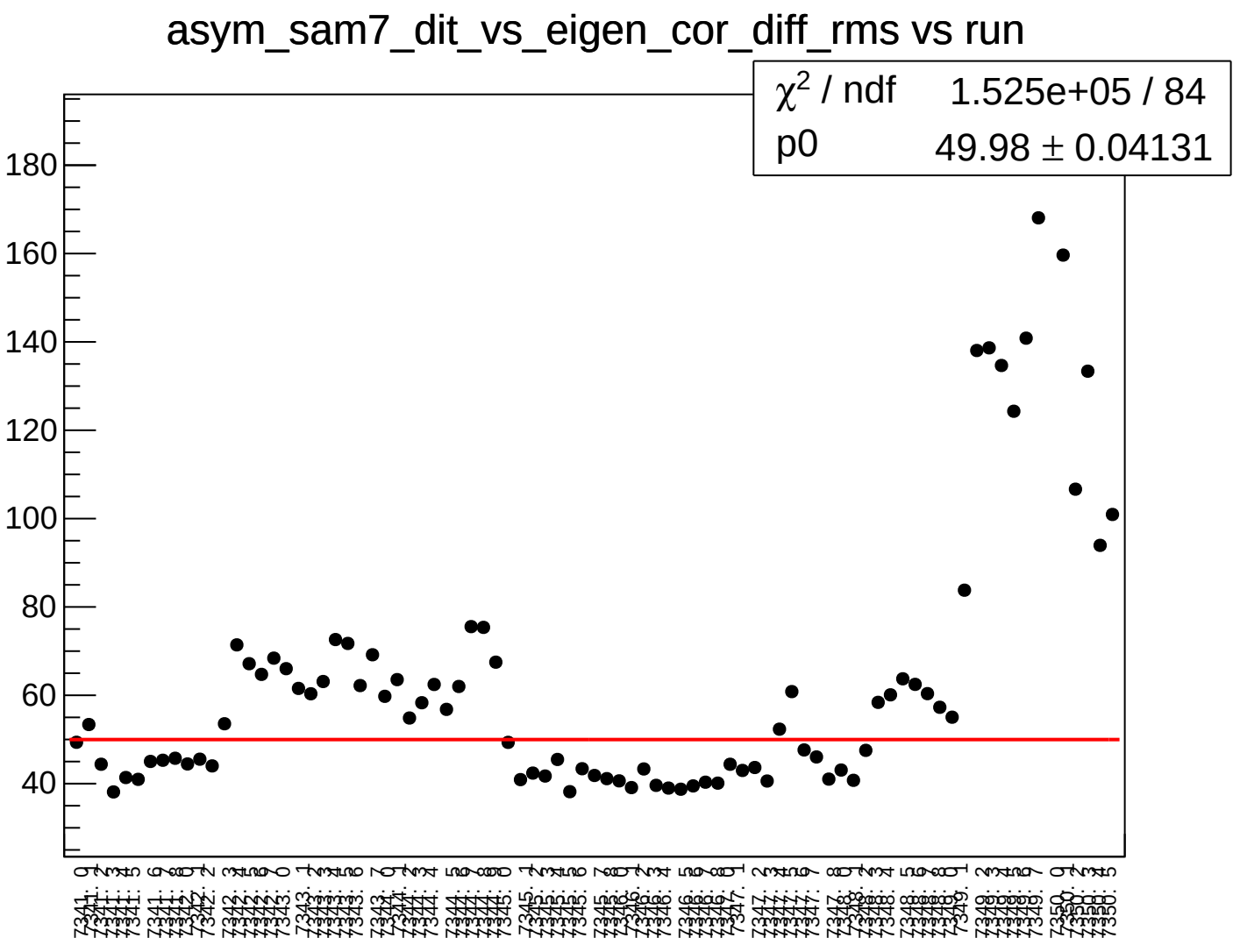

pull1D
Entries 85
Mean 0.204
Std Dev 0.8931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

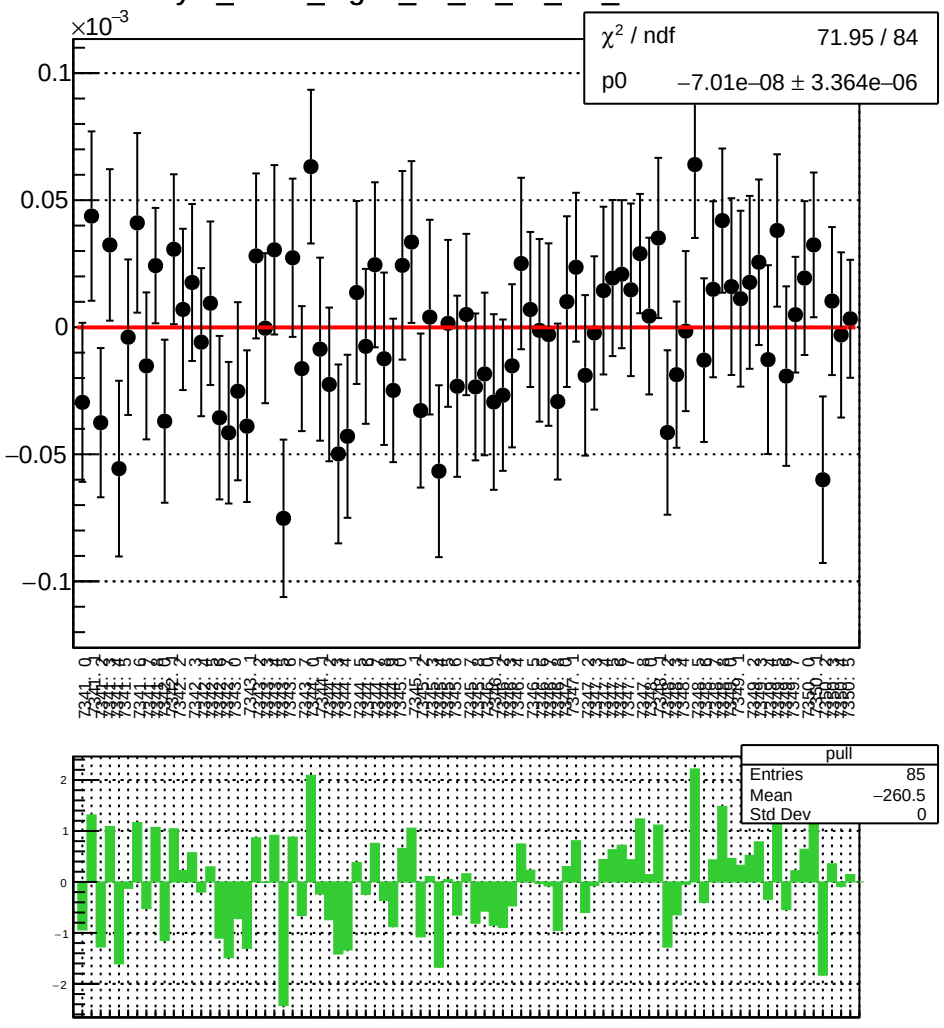

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.231e+06 / 84
p0 8.923e−12 ± 1.437e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

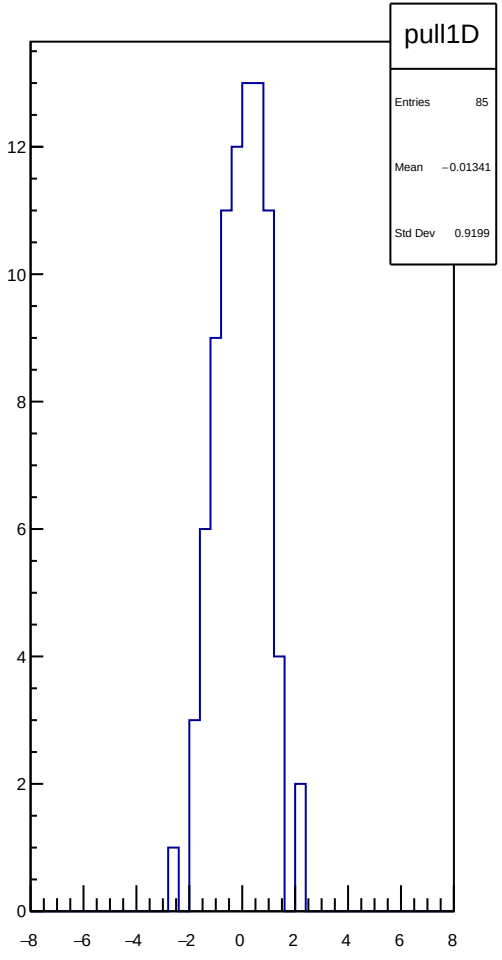

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 78.79 / 84
p0 −0.01896 ± 0.05842
pull
Entries 85
Mean 25.33
Std Dev 9.65
pull1D
Entries 85
Mean −0.04084
Std Dev 0.9619

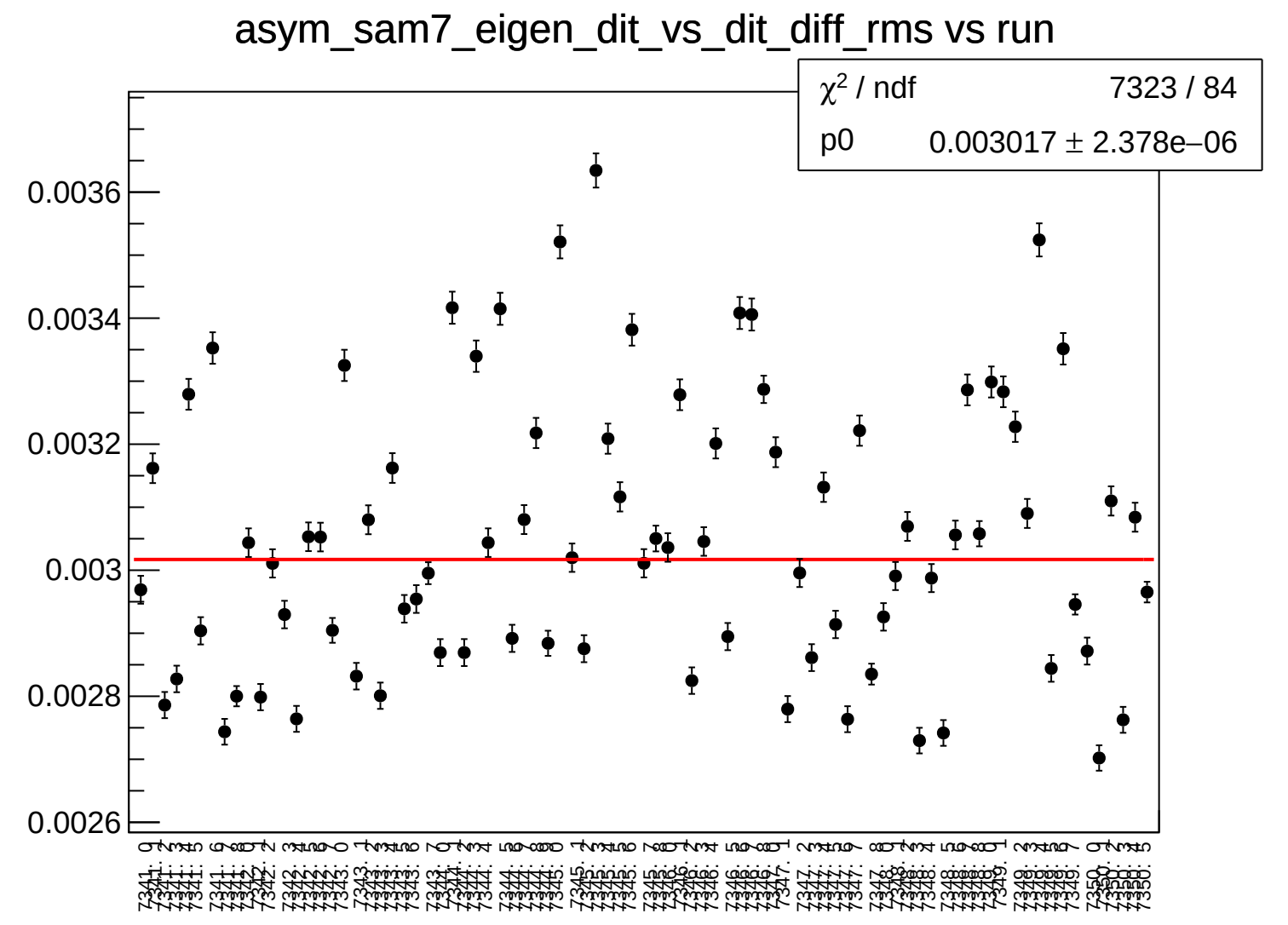

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.525e+05 / 84
p0 49.98 ± 0.04131
180
160
140
120
100
80
60
40

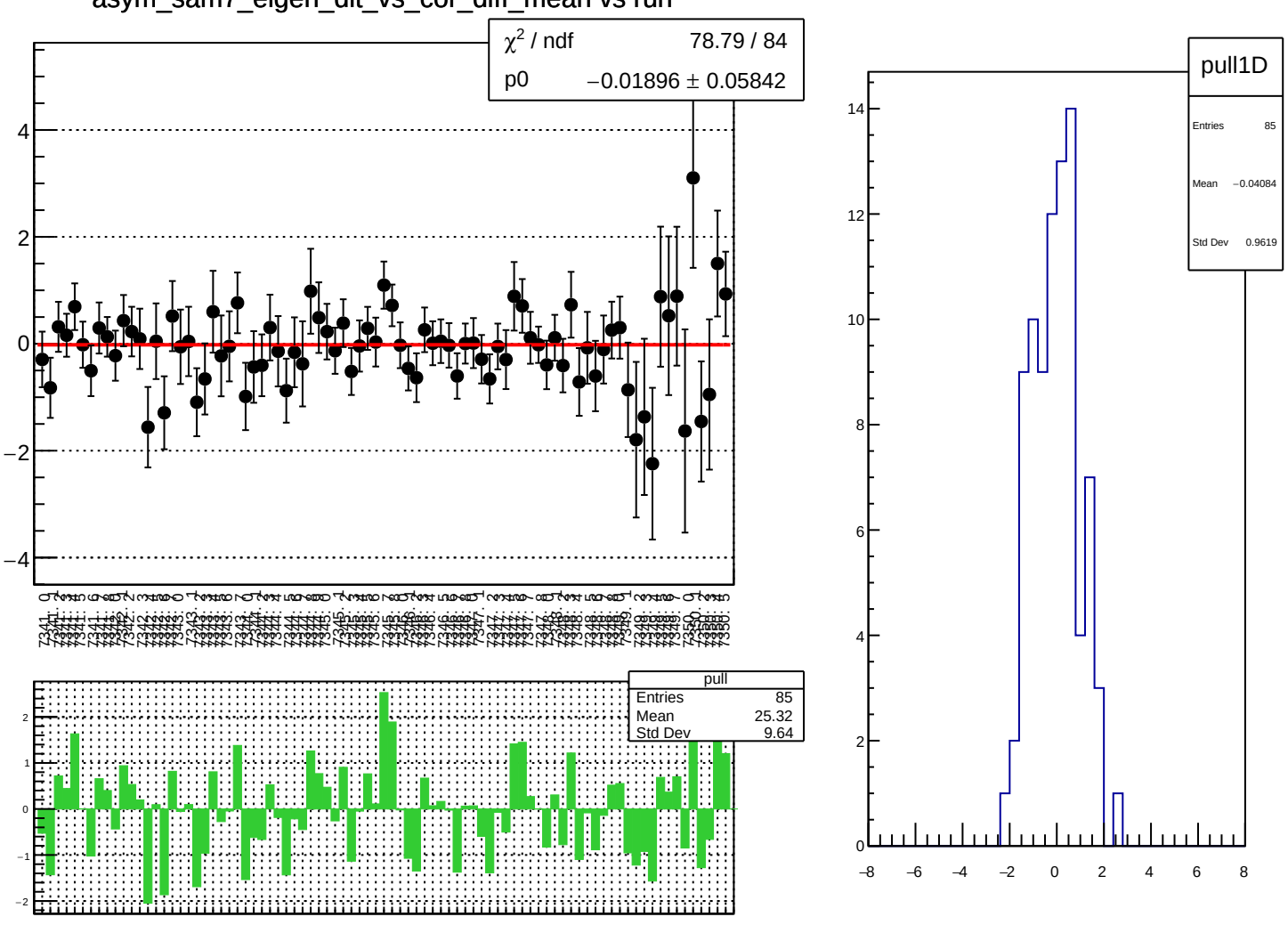

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.79 / 84
p0 −0.01896 ± 0.05842
pull
Entries 85
Mean 25.33
Std Dev 9.65
pull1D
Entries 85
Mean −0.04084
Std Dev 0.9619

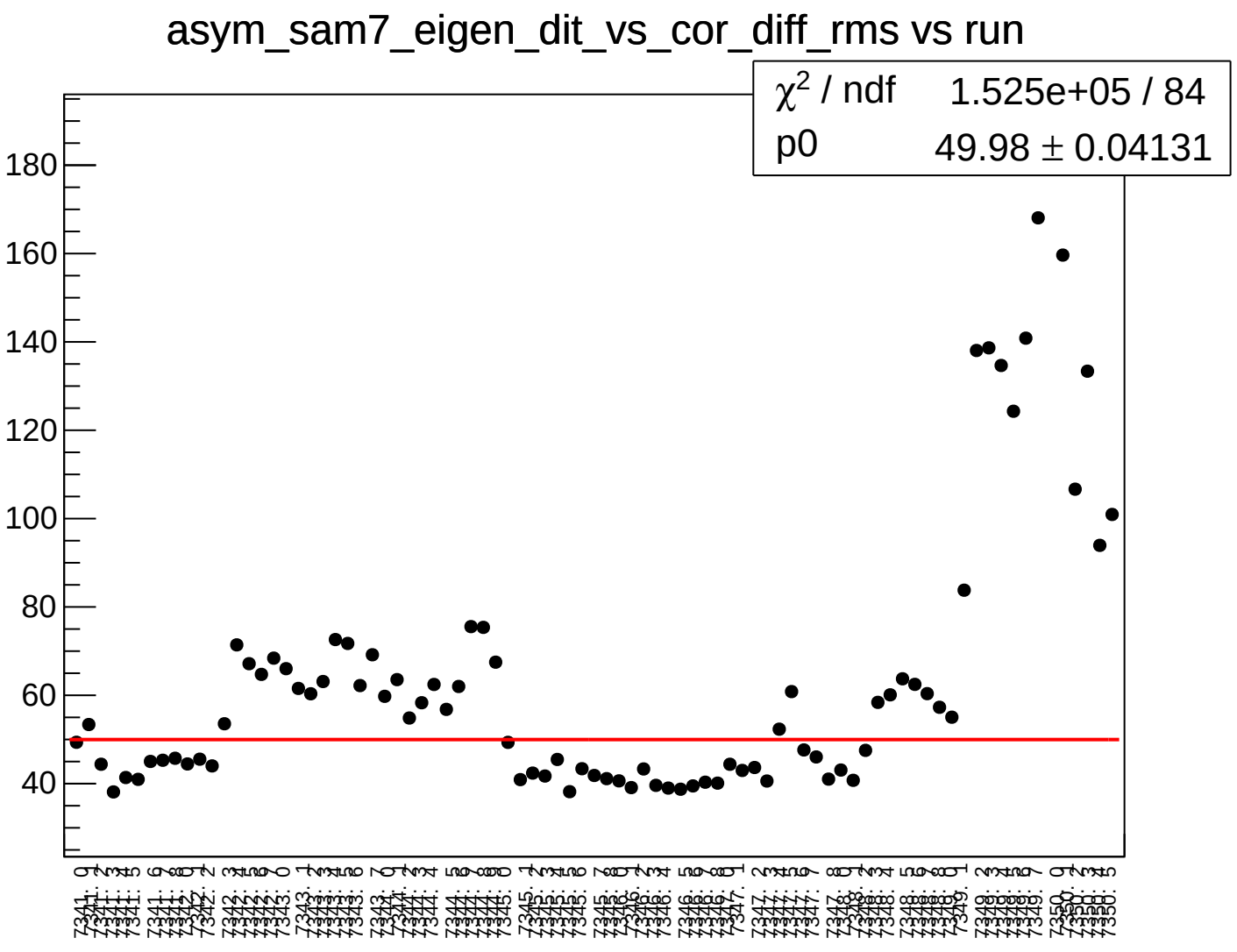

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.525e+05 / 84
p0 49.98 ± 0.04131
180
160
140
120
100
80
60
40

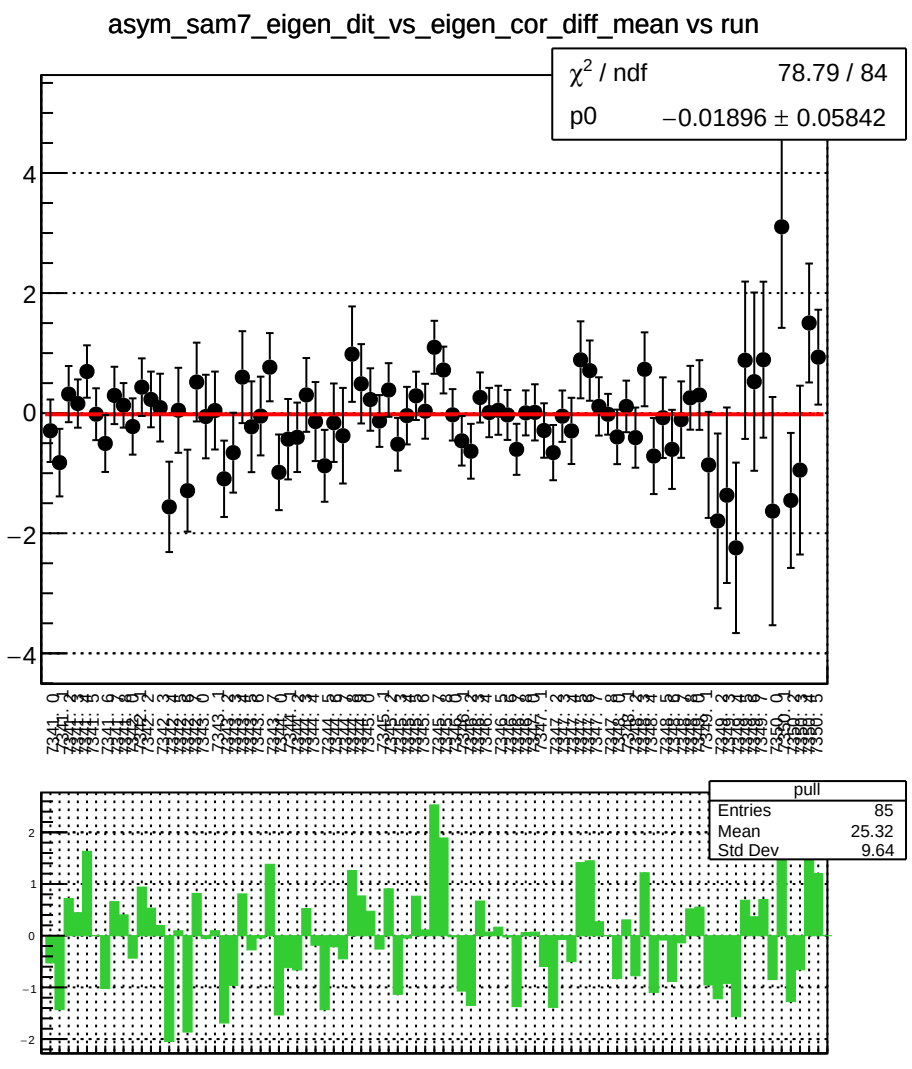

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.95 / 84
p0 −7.01e−08 ± 3.364e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean −260.5
Std Dev 0
2
1
0
−1
−2

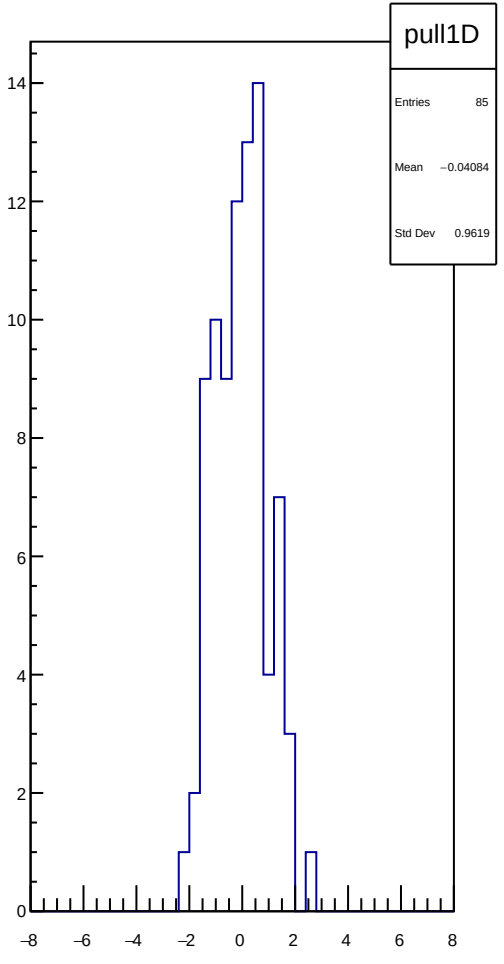

pull1D
Entries 85
Mean −0.01341
Std Dev 0.9199
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

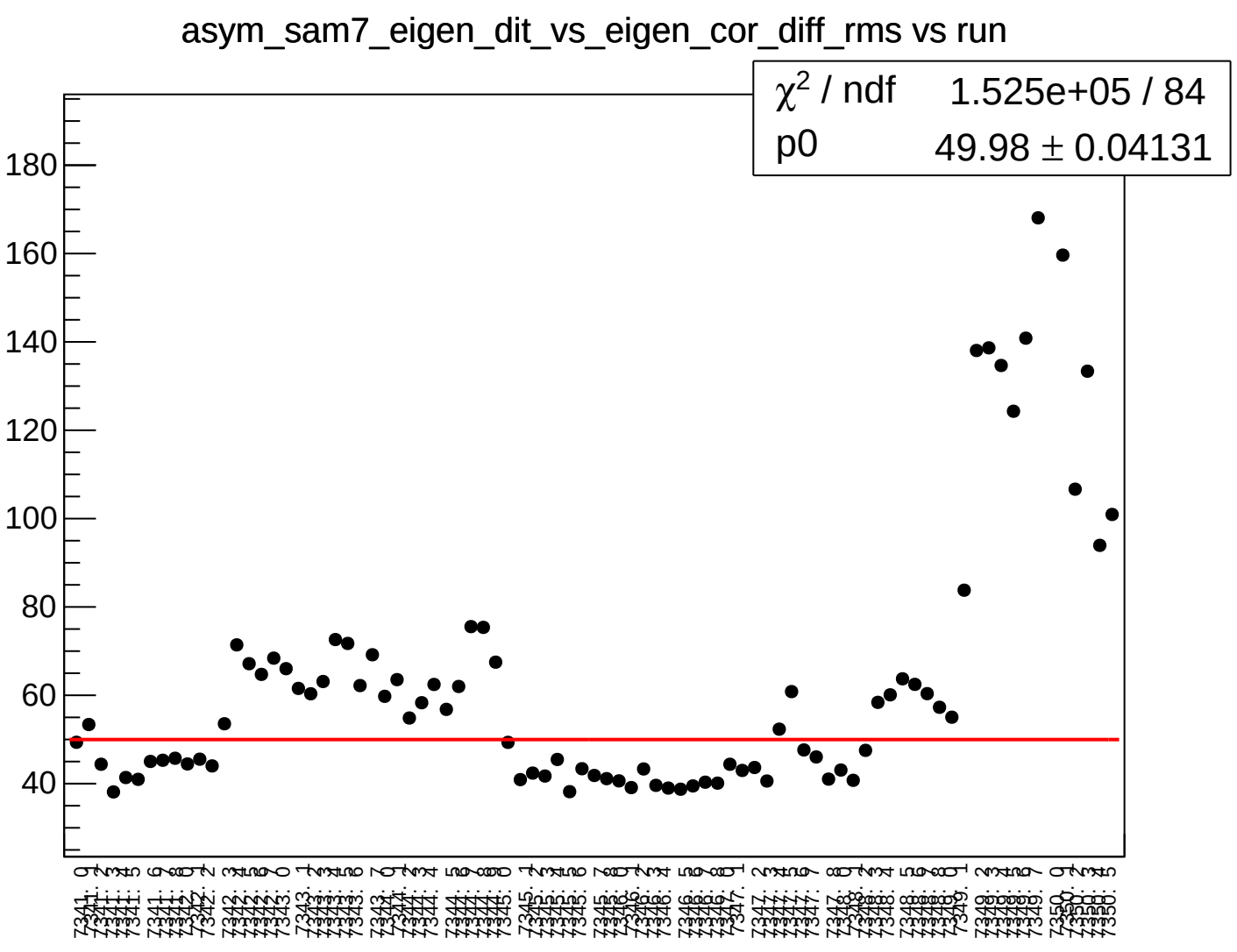

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7323 / 84
p0 0.003017 ± 2.378e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

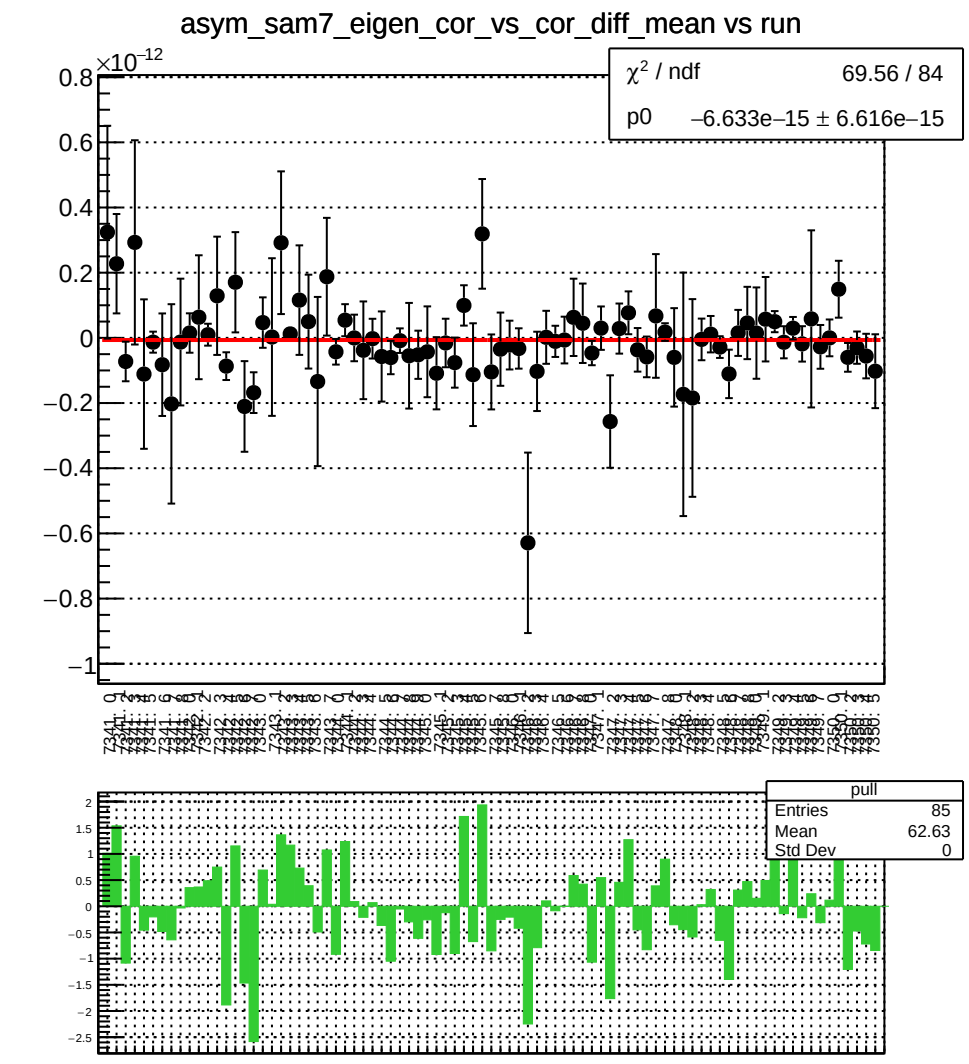

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.79 / 84
p0 −0.01896 ± 0.05842
pull
Entries 85
Mean 25.32
Std Dev 9.64
pull1D
Entries 85
Mean −0.04084
Std Dev 0.9619

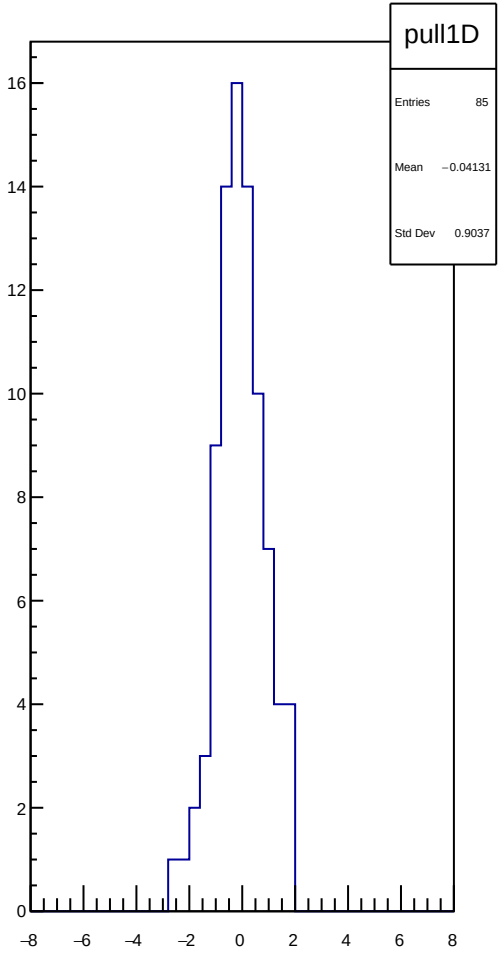

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.525e+05 / 84
p0 49.98 ± 0.04131
180
160
140
120
100
80
60
40

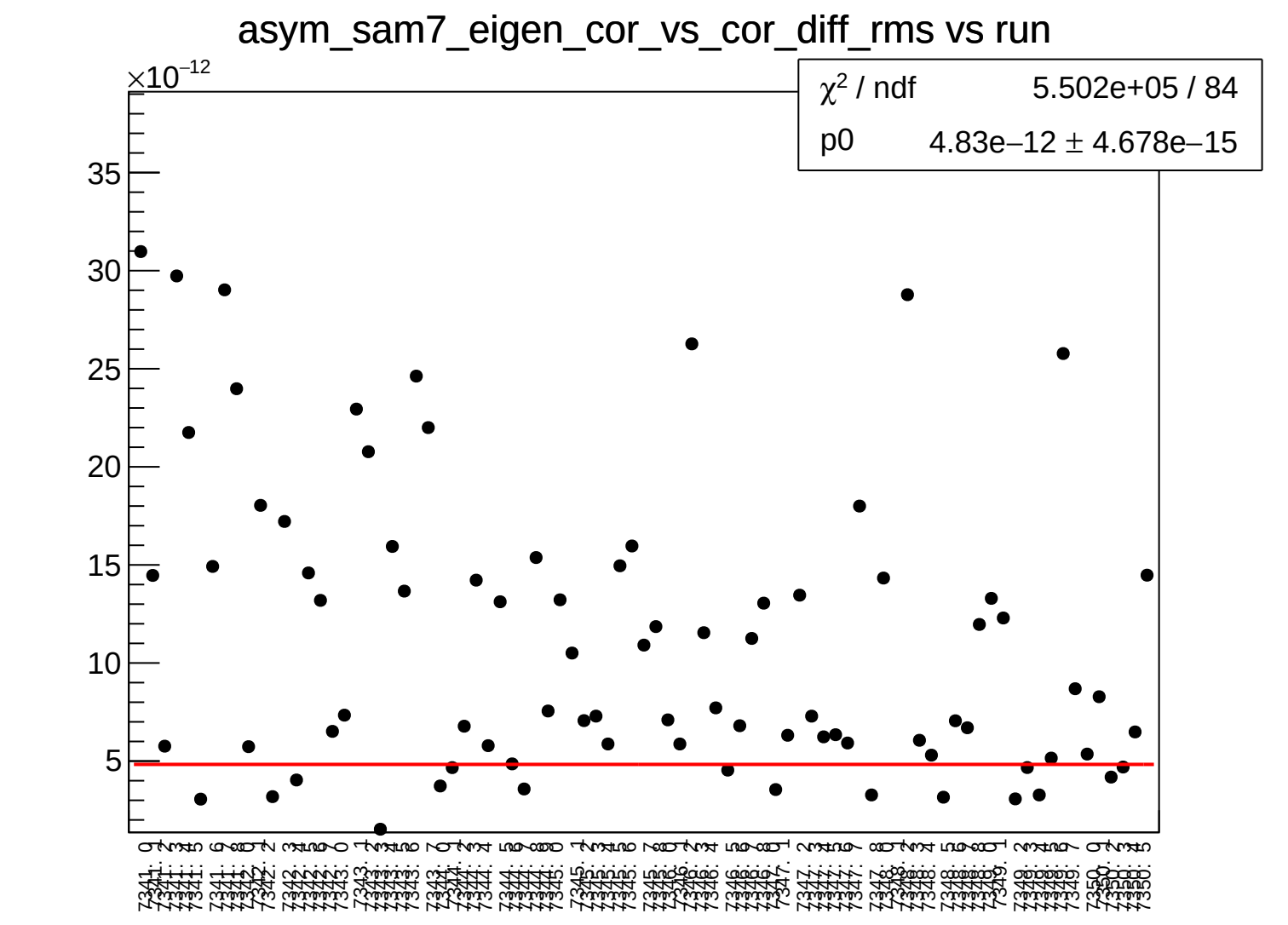

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.79 / 84
p0 −0.01896 ± 0.05842
pull
Entries 85
Mean 25.32
Std Dev 9.64

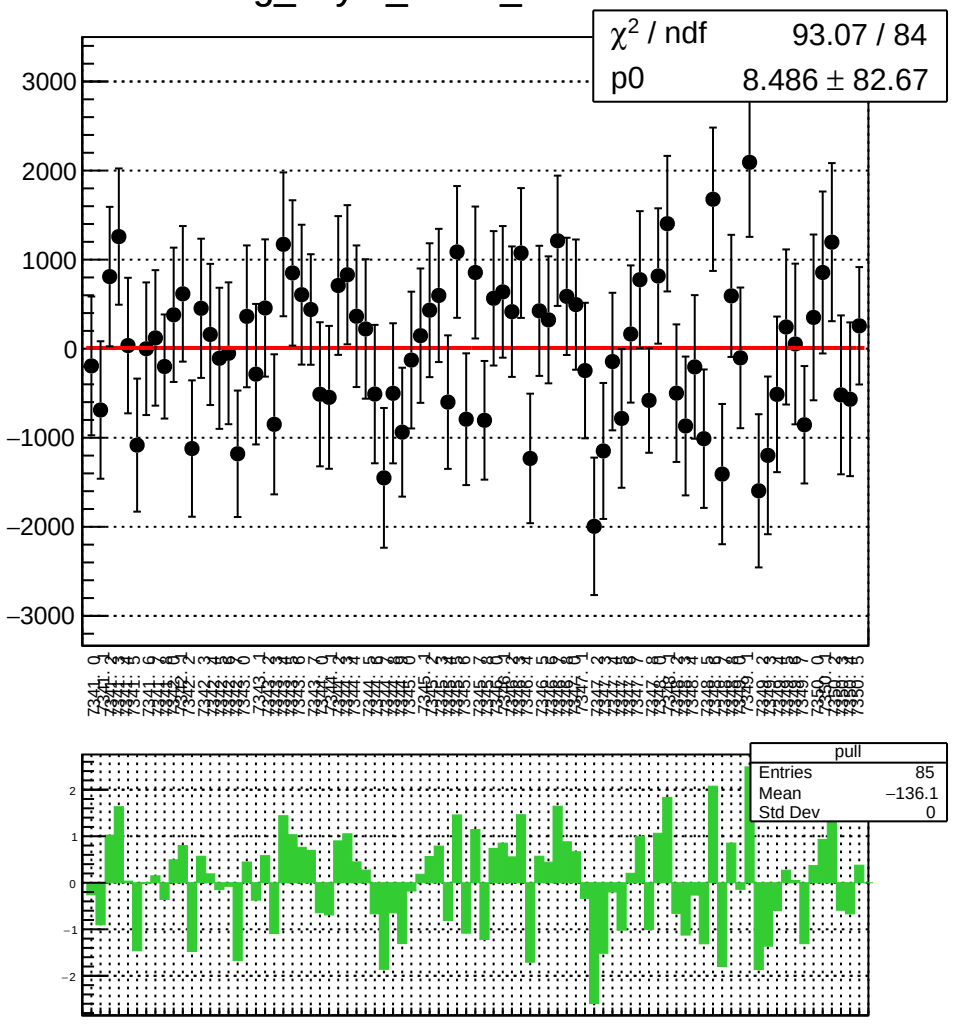

pull1D
Entries 85
Mean −0.04084
Std Dev 0.9619

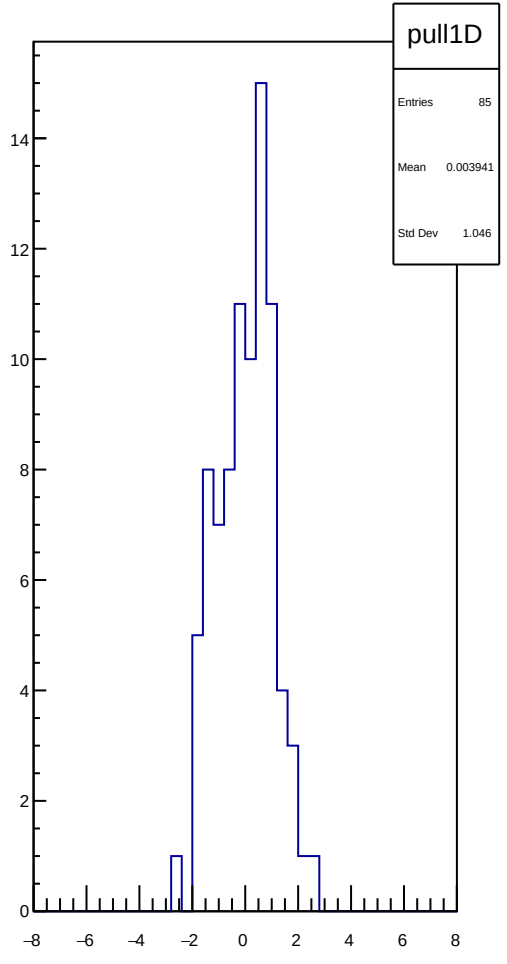

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.525e+05 / 84
p0 49.98 ± 0.04131
180
160
140
120
100
80
60
40

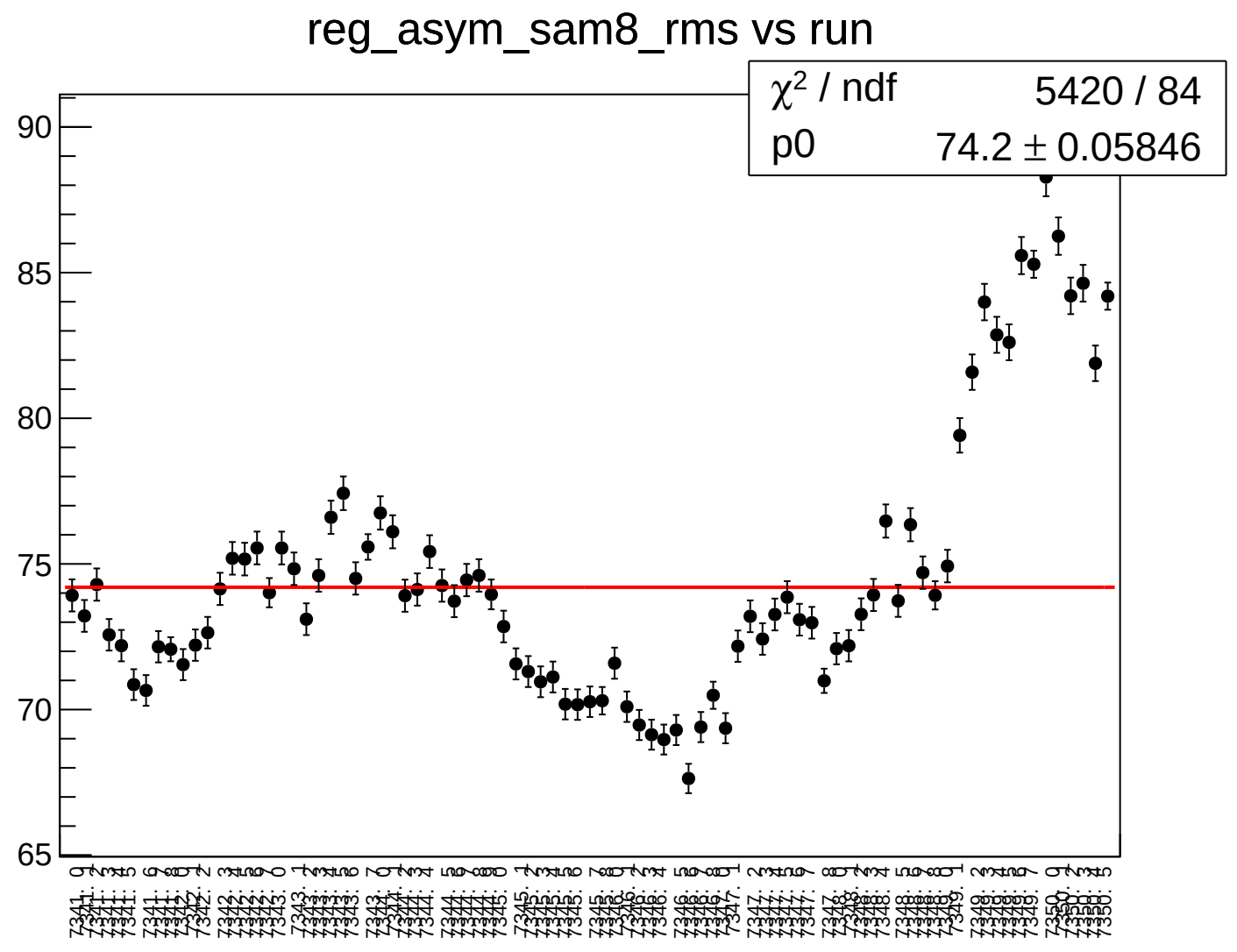

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.56 / 84
p0 −6.633e−15 ± 6.616e−15
pull
Entries 85
Mean 62.63
Std Dev 0

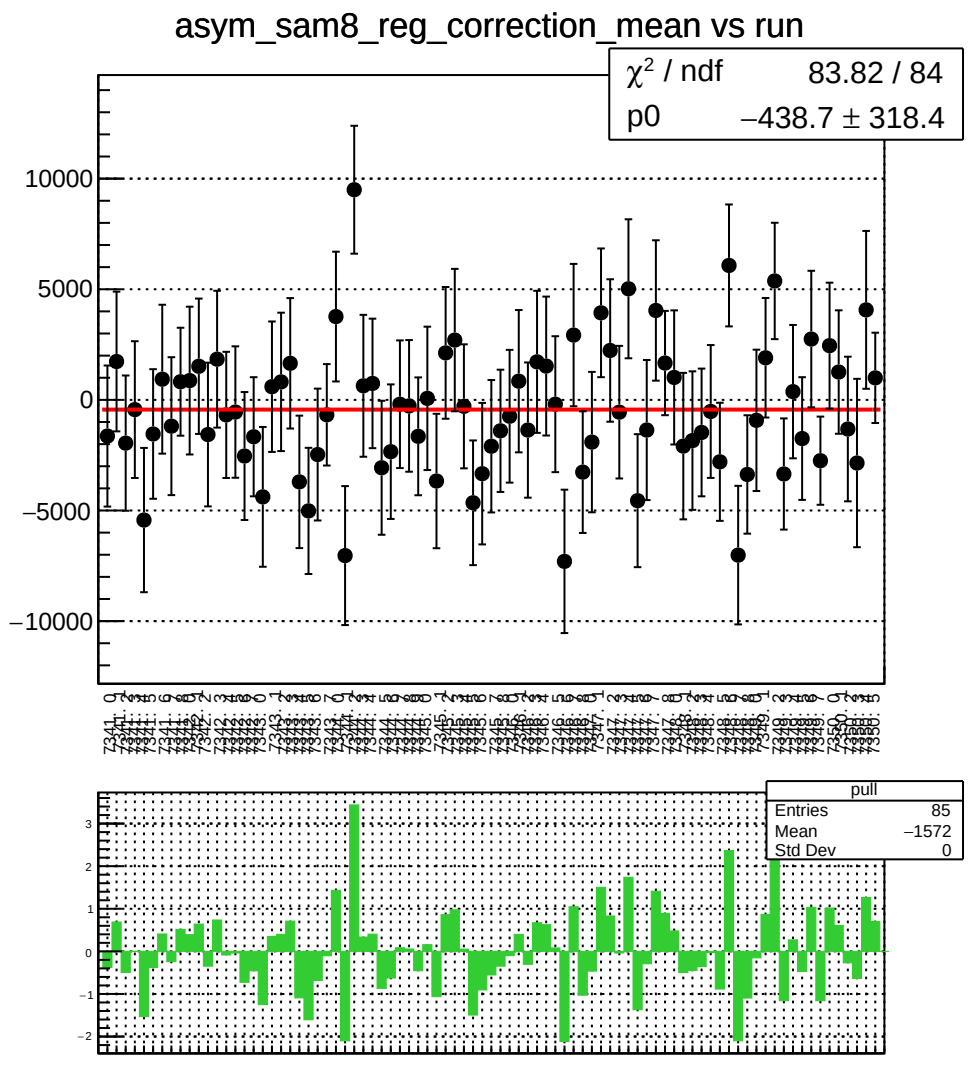

pull1D
Entries 85
Mean −0.04131
Std Dev 0.9037

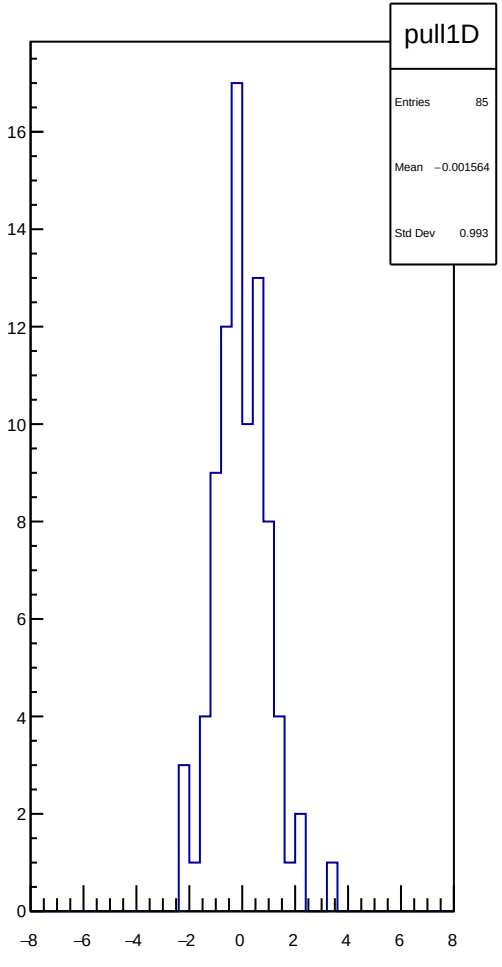

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.502e+05 / 84
p0 4.83e−12 ± 4.678e−15
35
30
25
20
15
10
5

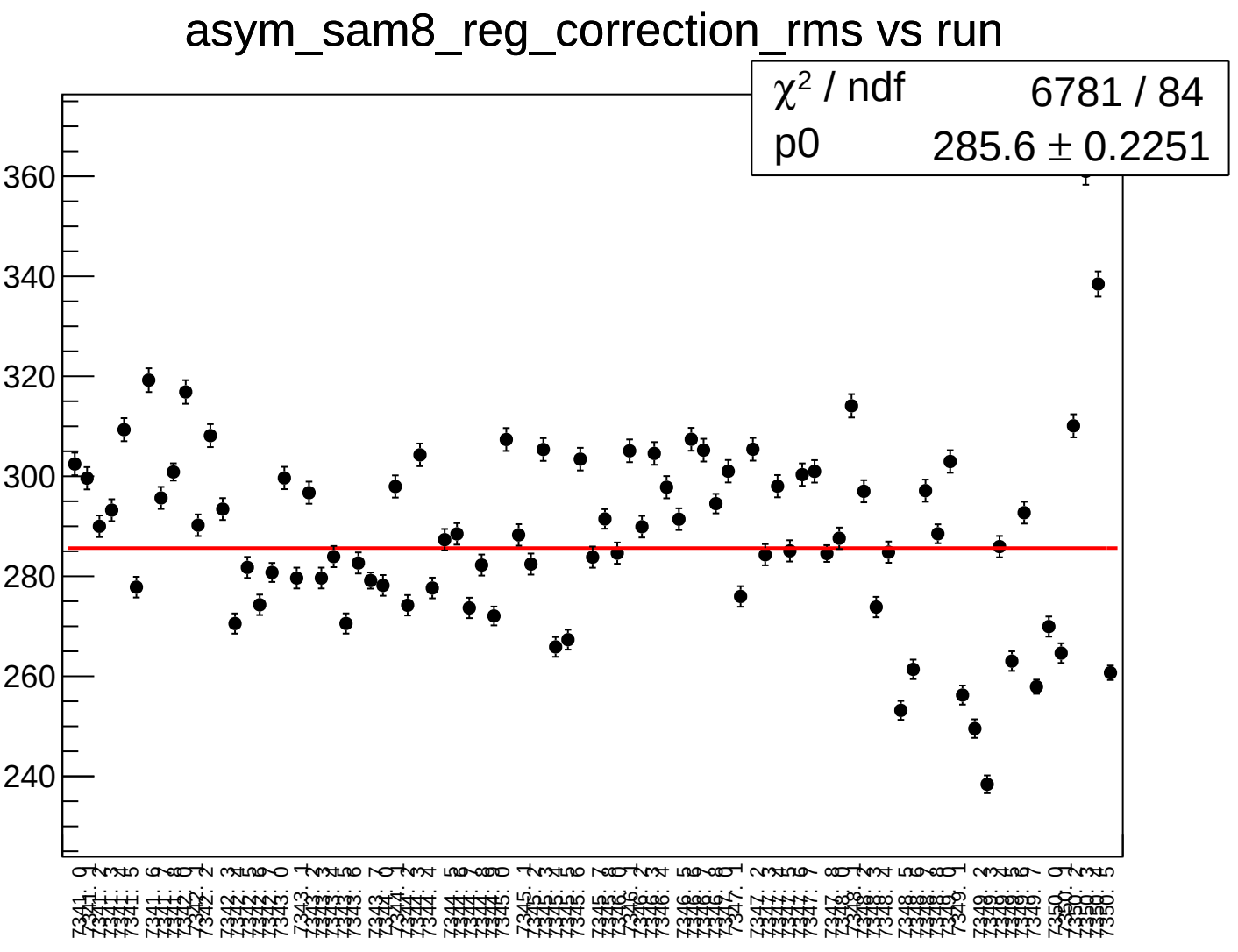

reg_asym_sam8_mean vs run
χ² / ndf 93.07 / 84
p0 8.486 ± 82.67
pull
Entries 85
Mean −136.1
Std Dev 0

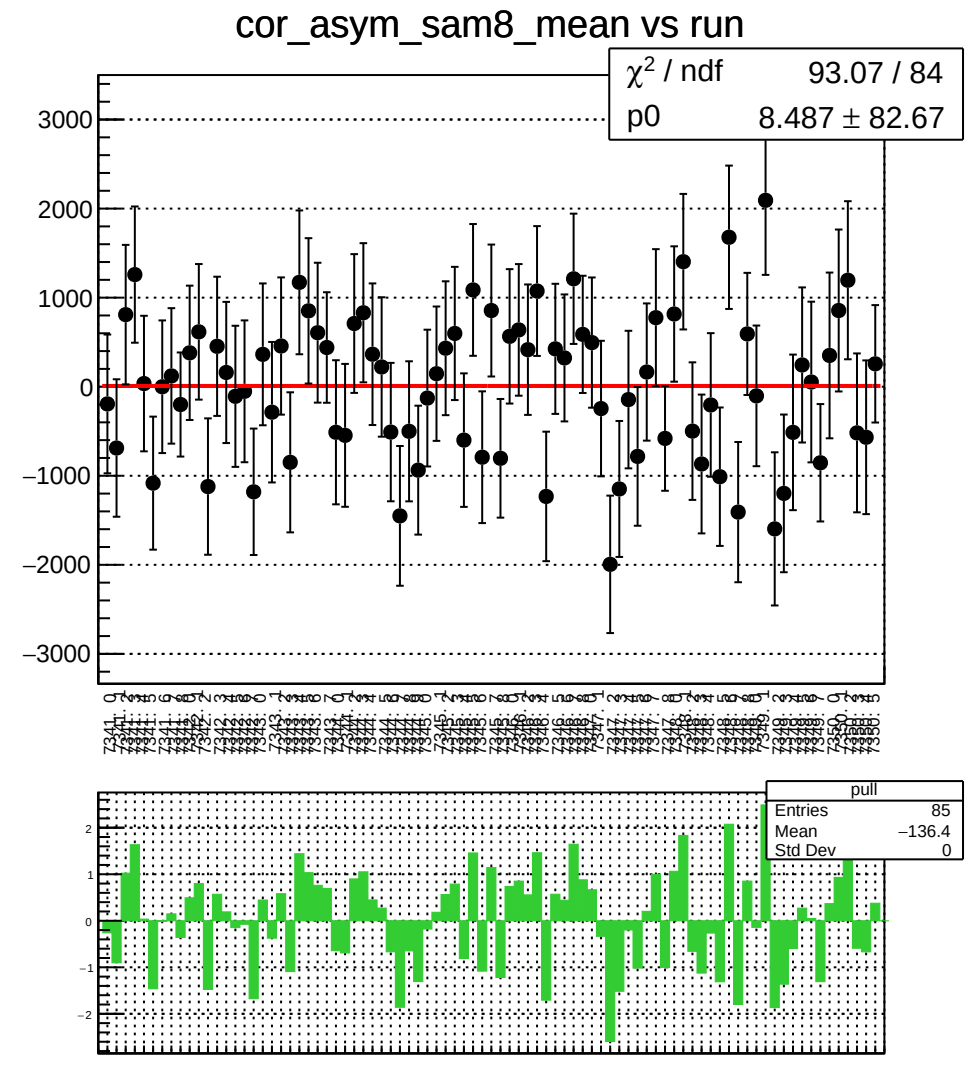

pull1D
Entries 85
Mean 0.003941
Std Dev 1.046

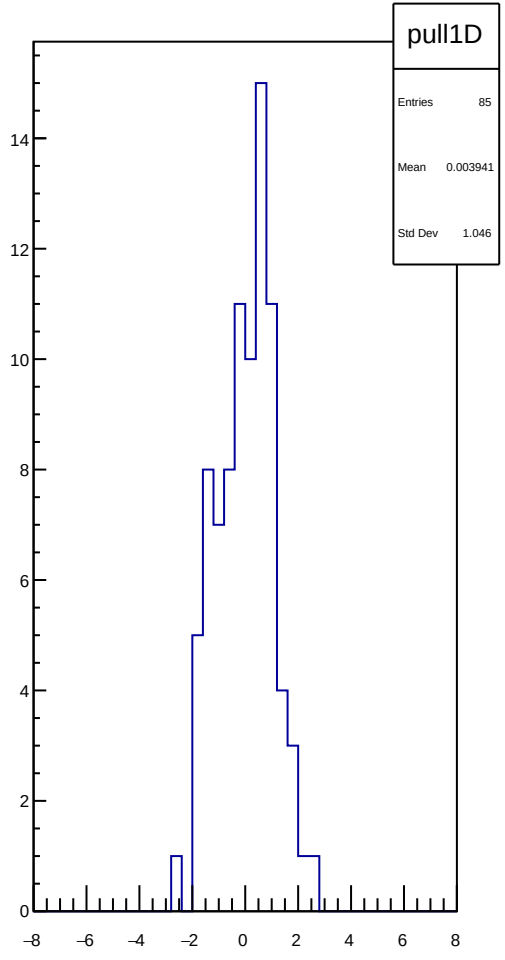

reg_asym_sam8_rms vs run
χ^2 / ndf 5420 / 84
p0 74.2 ± 0.05846
90
85
80
75
70
65

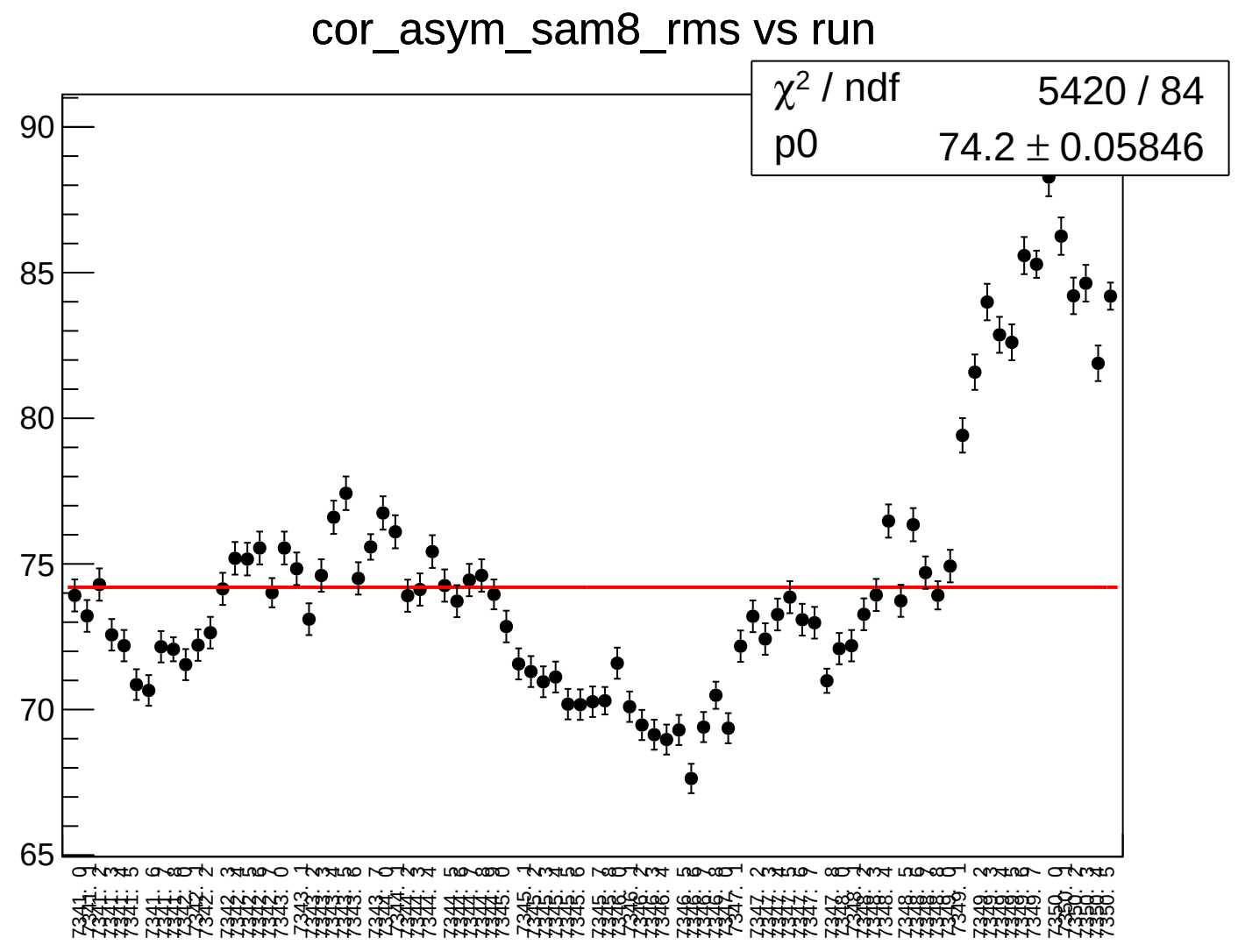

asym_sam8_reg_correction_mean vs run
χ² / ndf 83.82 / 84
p0 −438.7 ± 318.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −1572
Std Dev 0

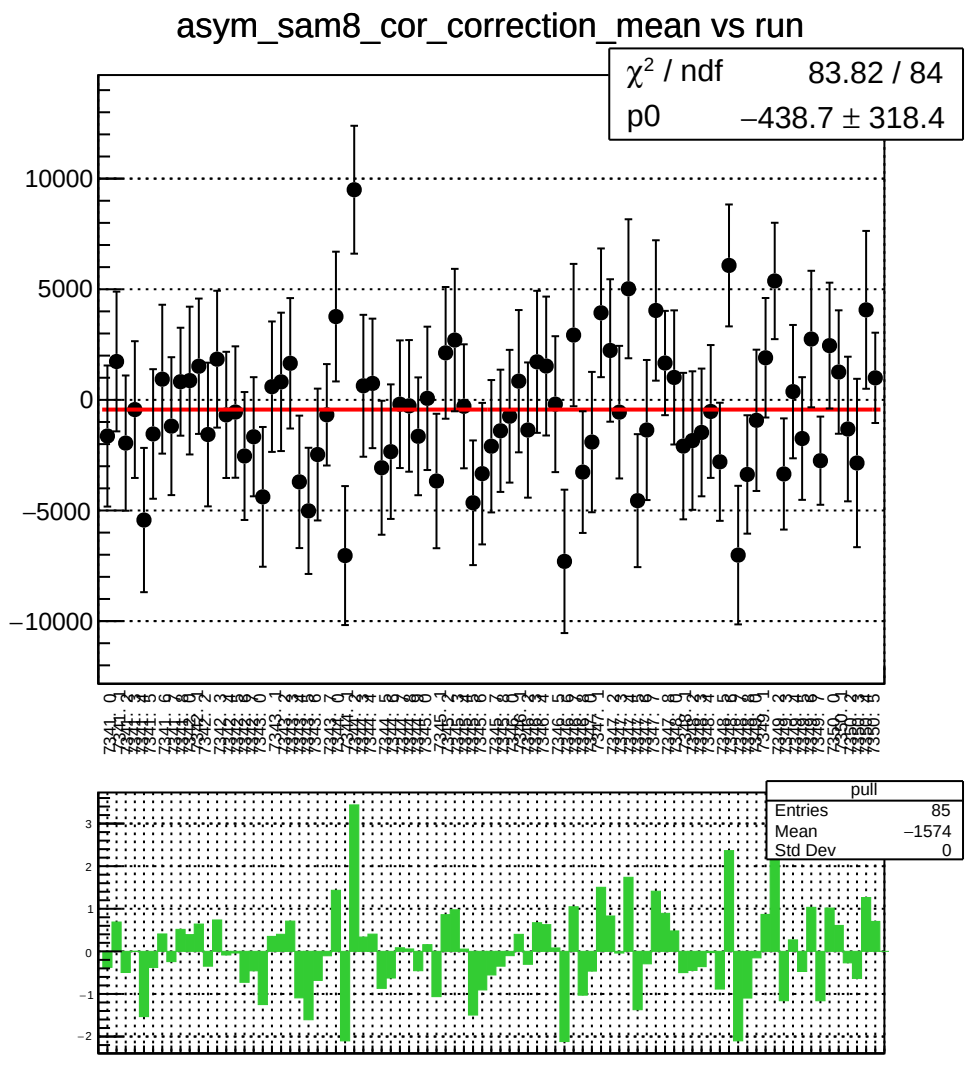

pull1D
Entries 85
Mean −0.001564
Std Dev 0.993

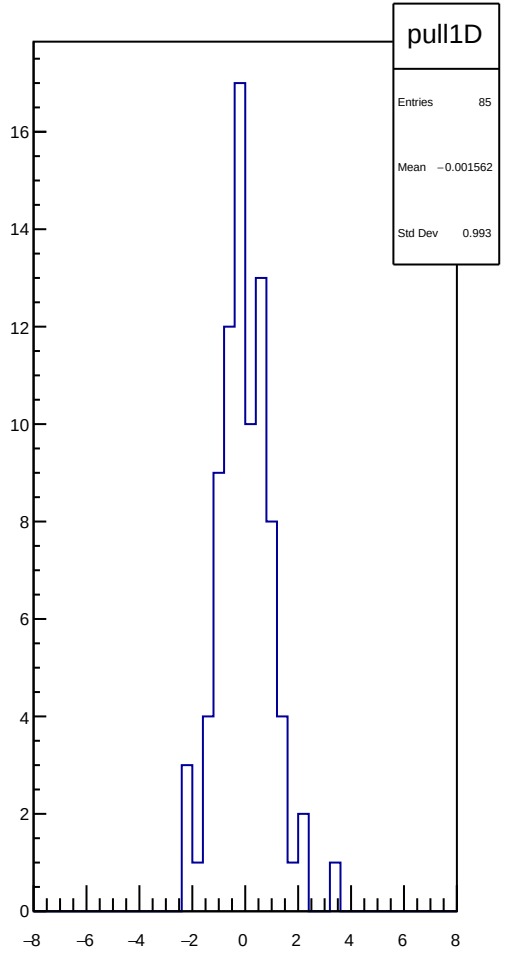

asym_sam8_reg_correction_rms vs run
χ² / ndf 6781 / 84
p0 285.6 ± 0.2251
360
340
320
300
280
260
240

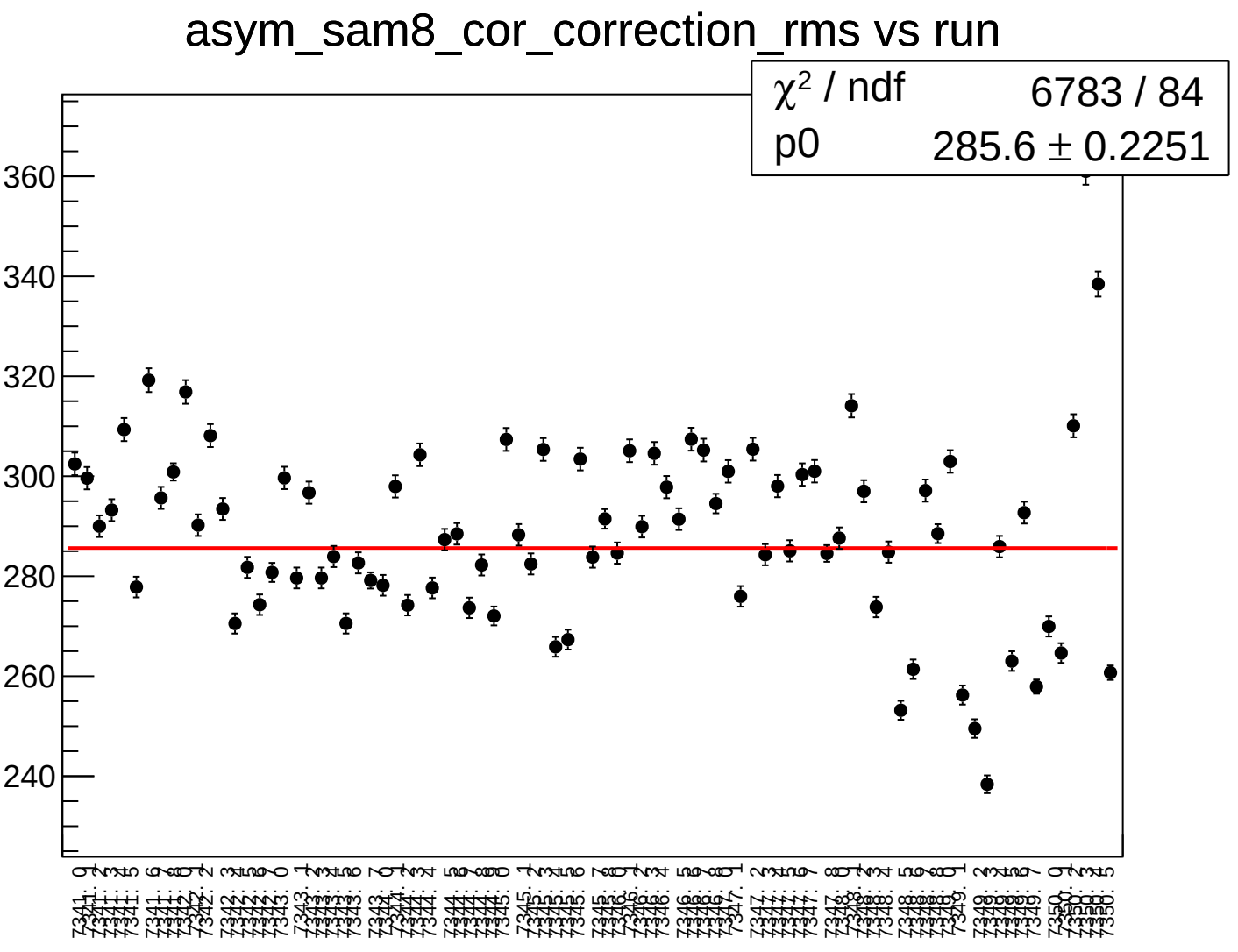

cor_asym_sam8_mean vs run
χ² / ndf 93.07 / 84
p0 8.487 ± 82.67
pull
Entries 85
Mean −136.4
Std Dev 0

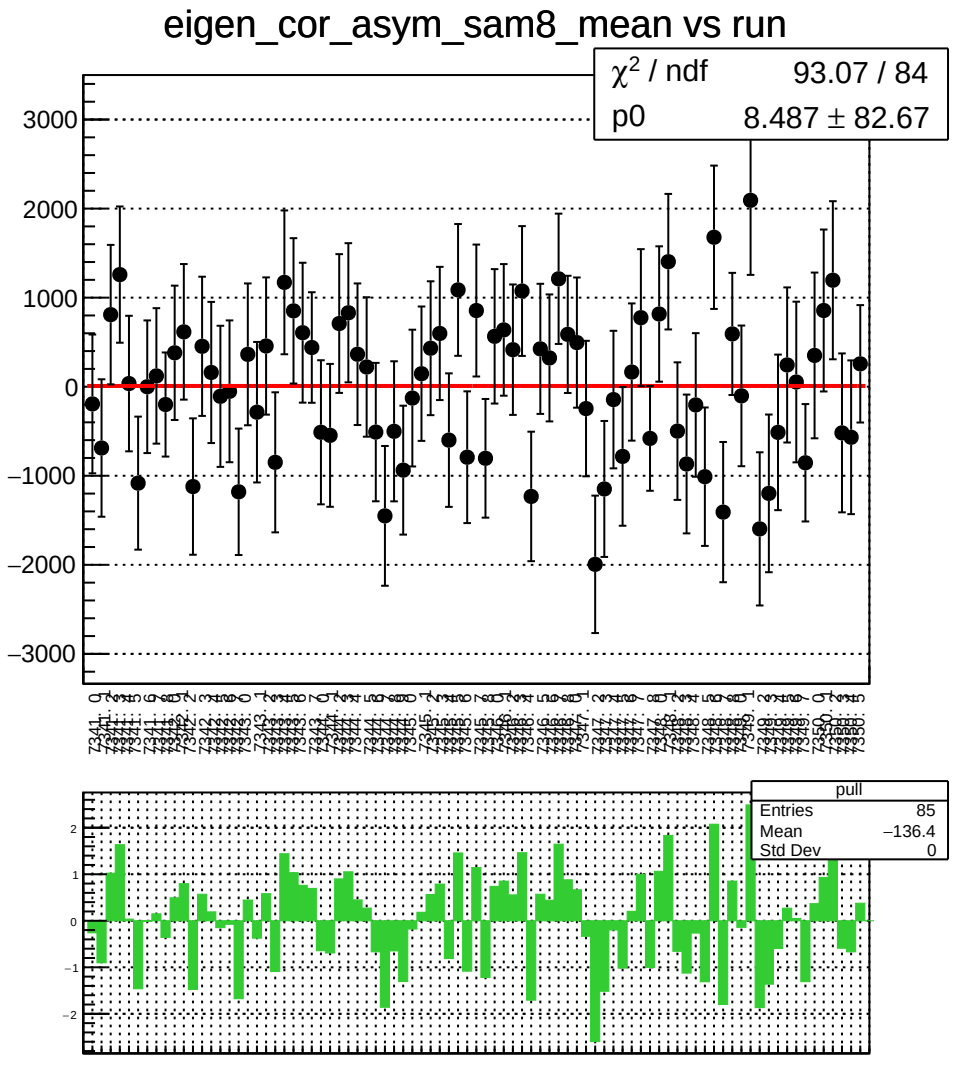

pull1D
Entries 85
Mean 0.003941
Std Dev 1.046

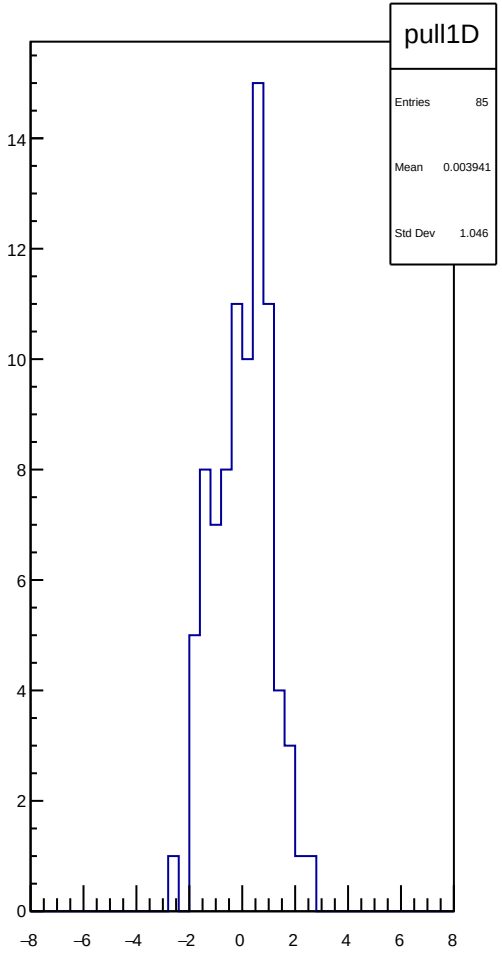

cor_asym_sam8_rms vs run
χ^2 / ndf 5420 / 84
p0 74.2 ± 0.05846
90
85
80
75
70
65

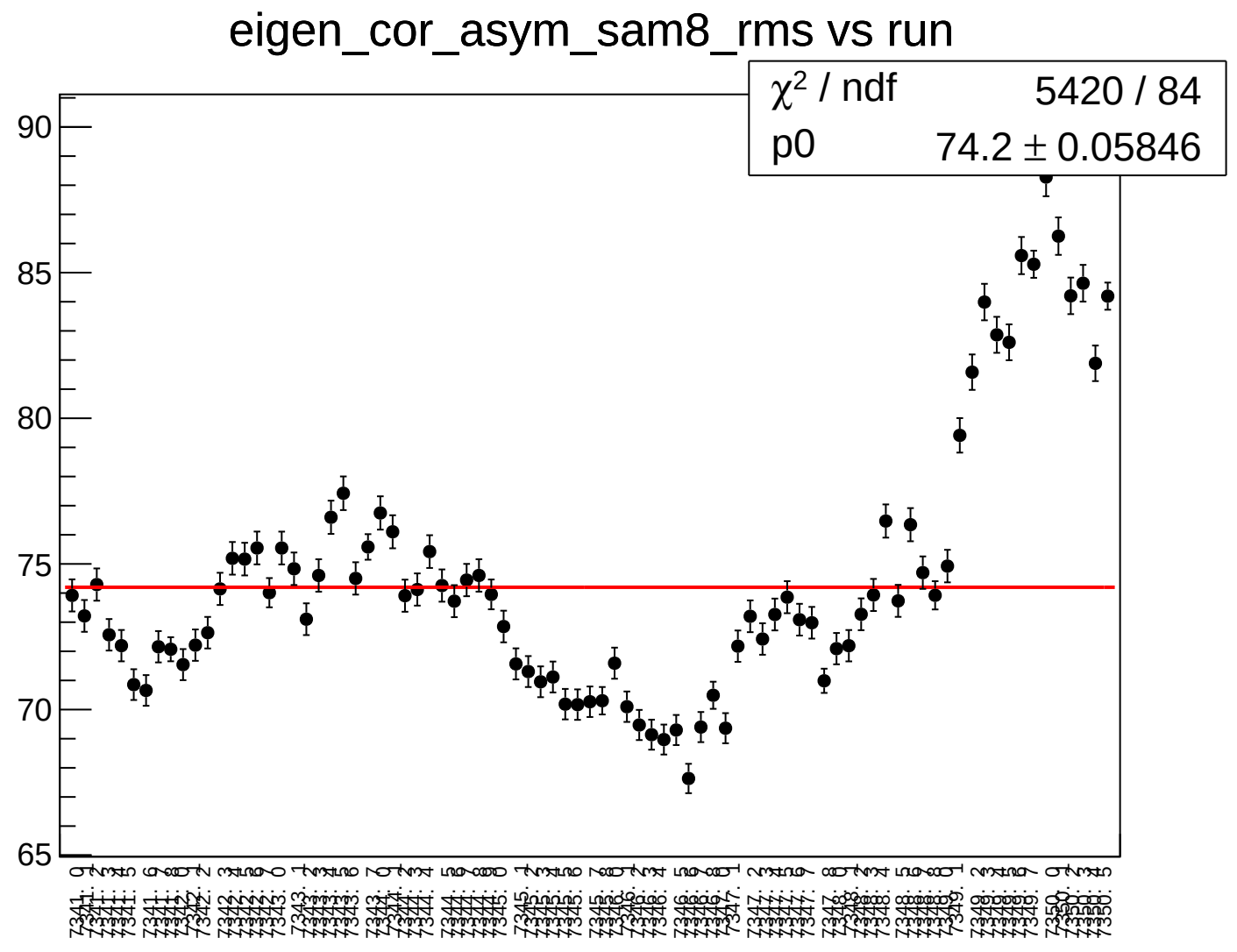

asym_sam8_cor_correction_mean vs run
χ² / ndf 83.82 / 84
p0 −438.7 ± 318.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −1574
Std Dev 0
3
2
1
0
−1
−2

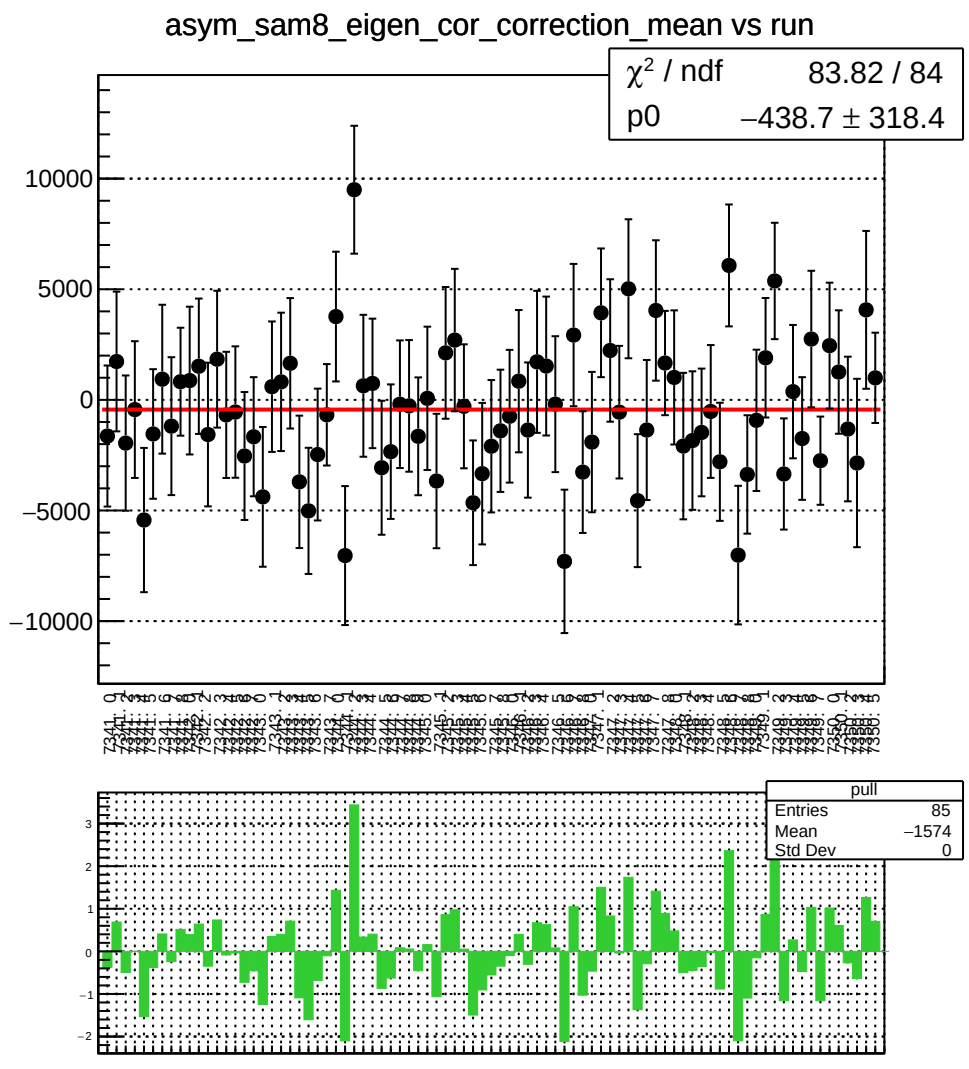

pull1D
Entries 85
Mean −0.001562
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

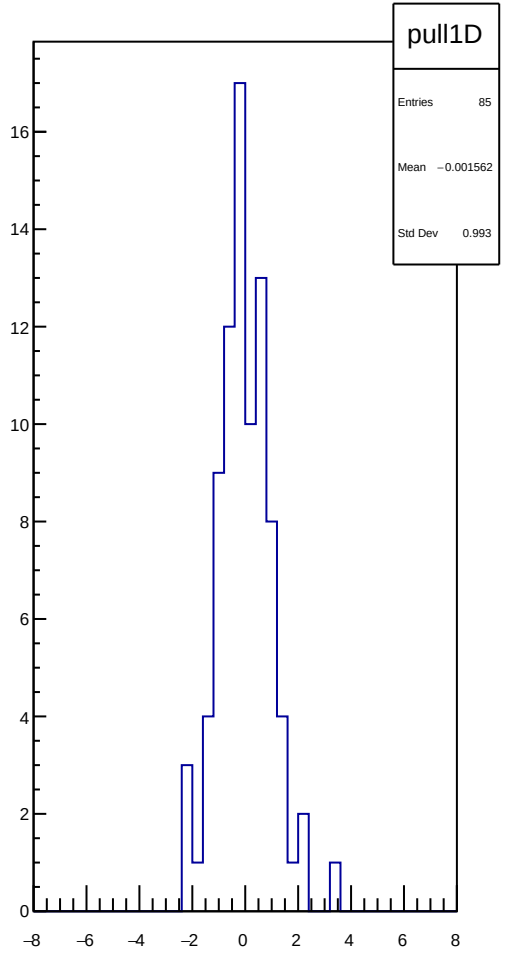

asym_sam8_cor_correction_rms vs run
χ² / ndf 6783 / 84
p0 285.6 ± 0.2251
360
340
320
300
280
260
240

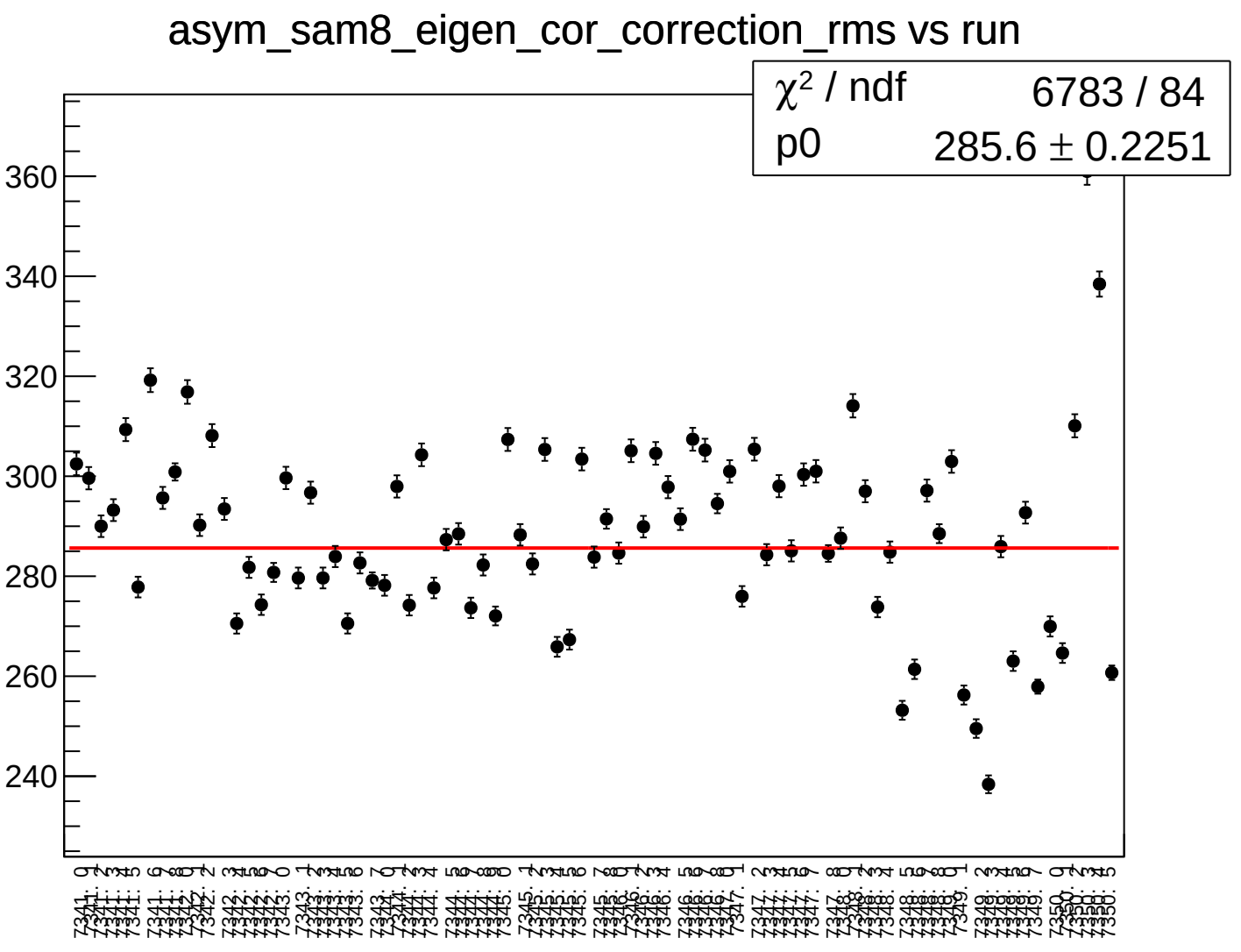

eigen_cor_asym_sam8_mean vs run
χ² / ndf 93.07 / 84
p0 8.487 ± 82.67
pull
Entries 85
Mean −136.4
Std Dev 0

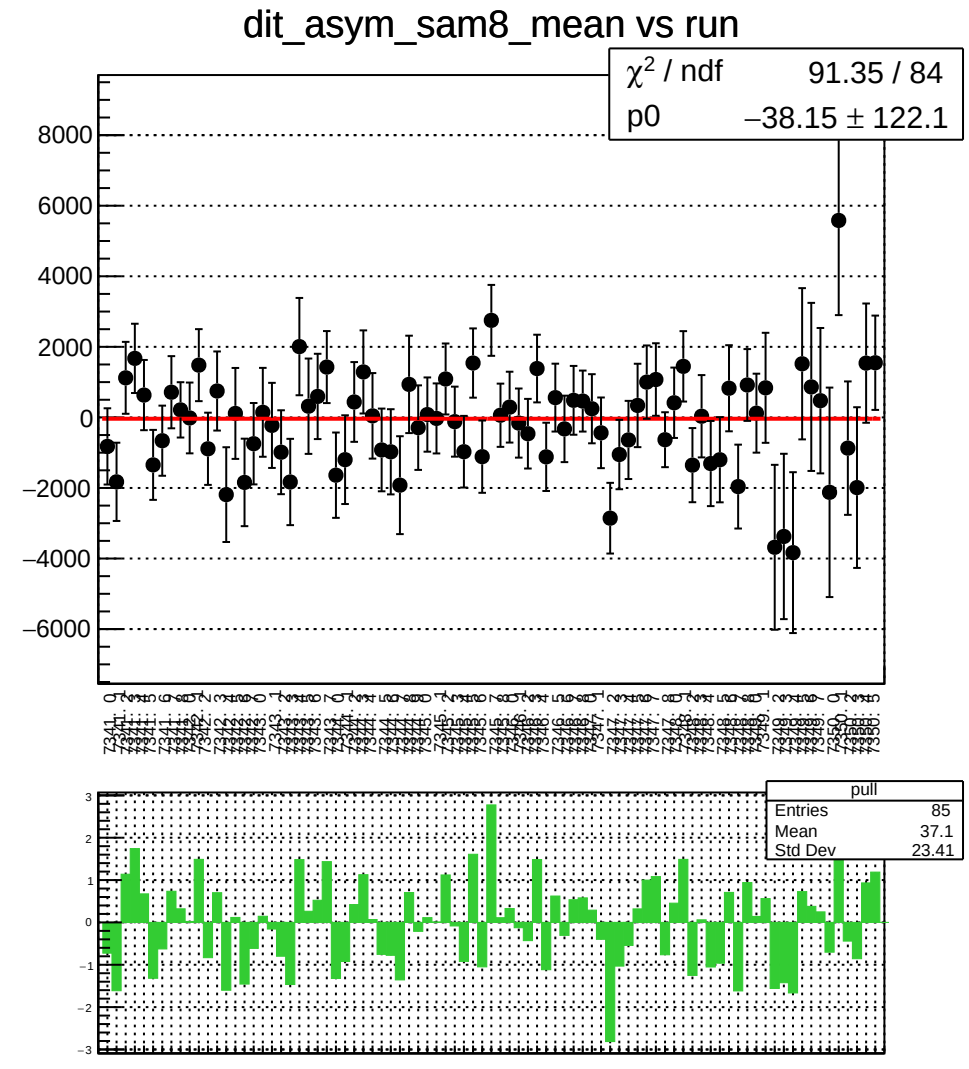

pull1D
Entries 85
Mean 0.003941
Std Dev 1.046

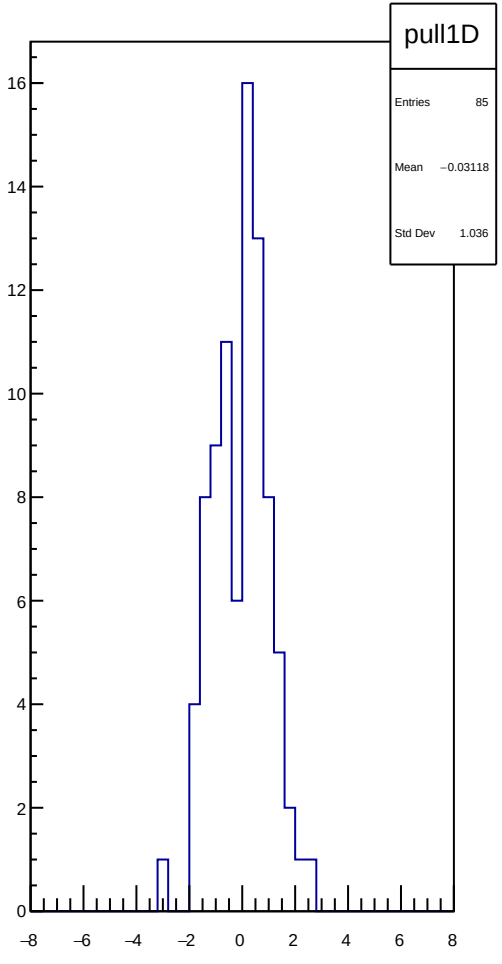

eigen_cor_asym_sam8_rms vs run
χ² / ndf 5420 / 84
p0 74.2 ± 0.05846
90
85
80
75
70
65

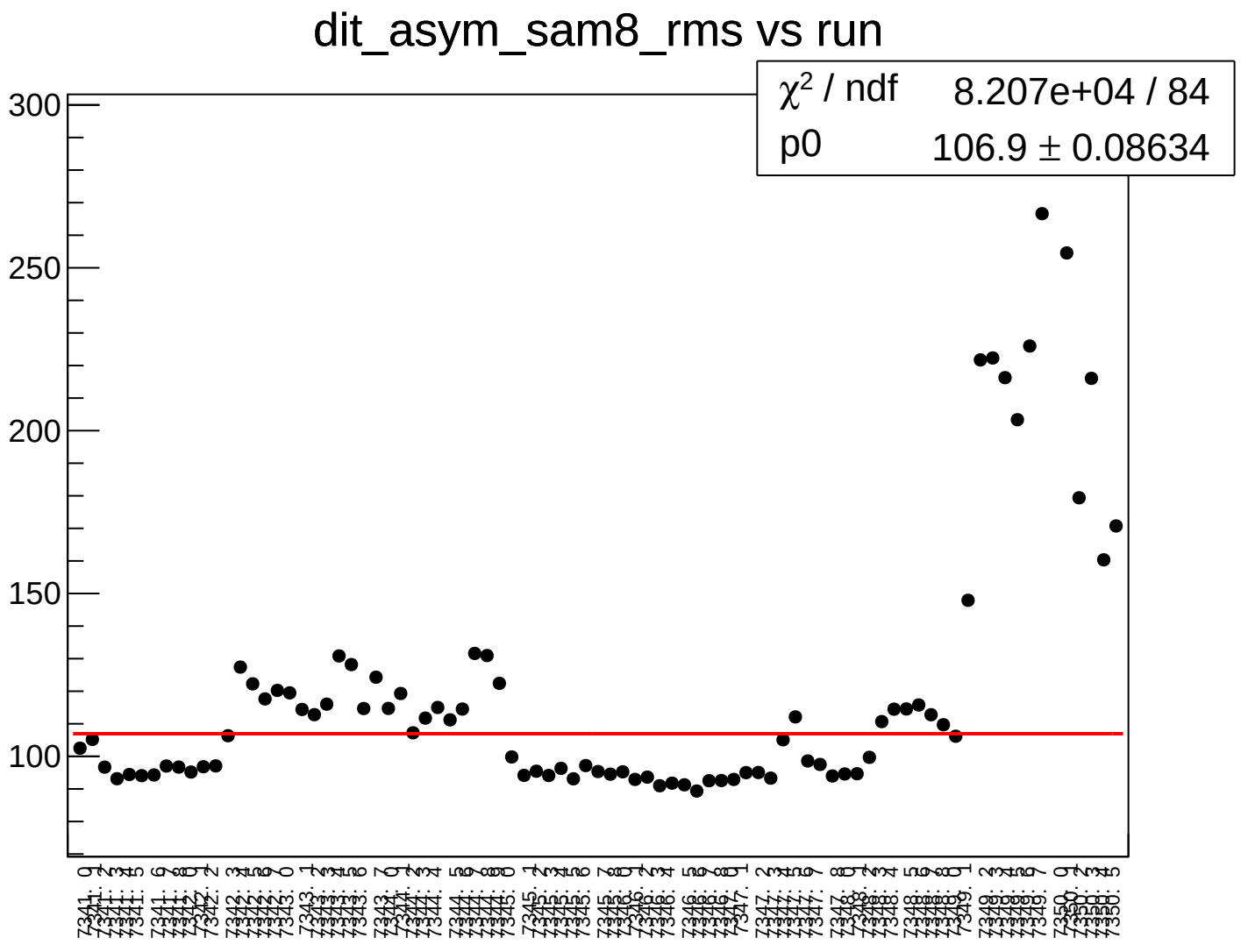

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 83.82 / 84
p0 −438.7 ± 318.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −1574
Std Dev 0
3
2
1
0
−1
−2

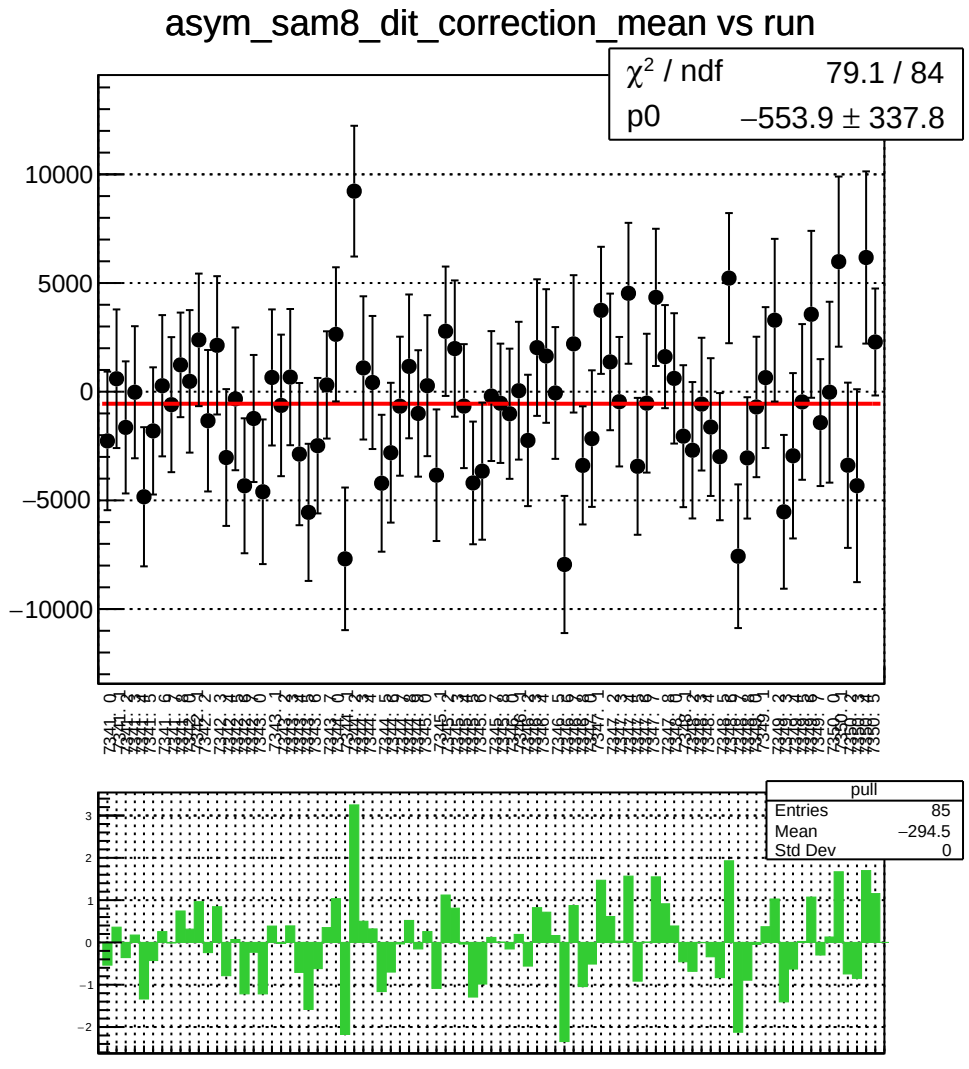

pull1D
Entries 85
Mean −0.001562
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

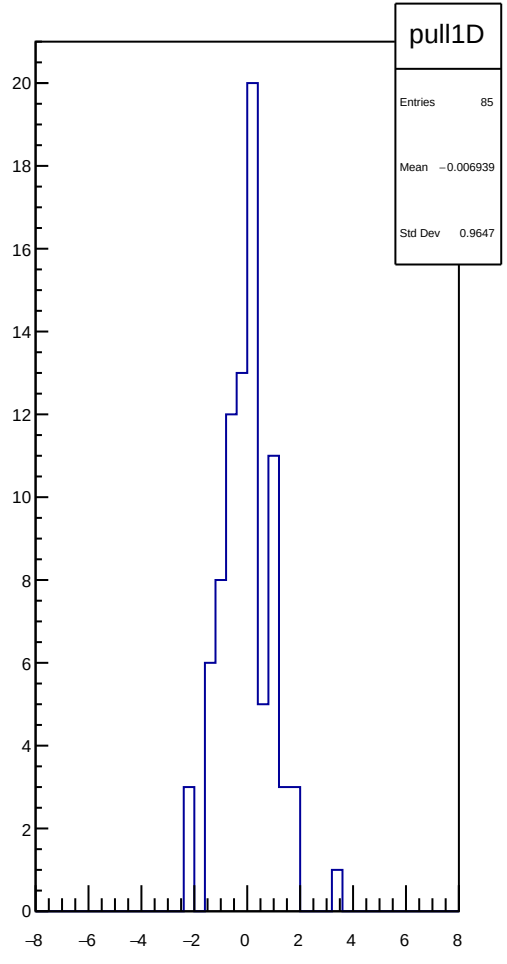

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 6783 / 84
p0 285.6 ± 0.2251
360
340
320
300
280
260
240

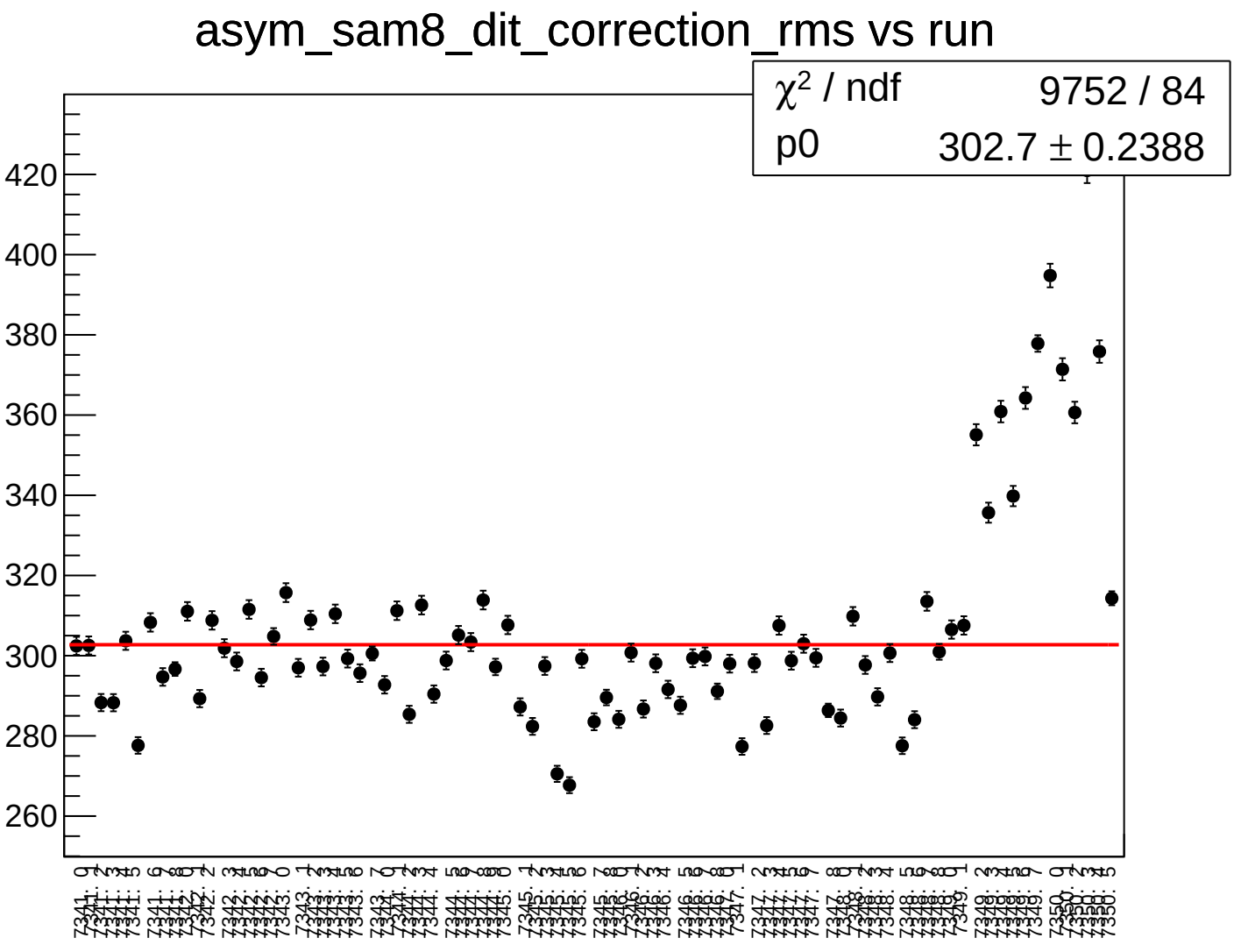

dit_asym_sam8_mean vs run
χ² / ndf 91.35 / 84
p0 −38.15 ± 122.1
pull
Entries 85
Mean 37.1
Std Dev 23.41

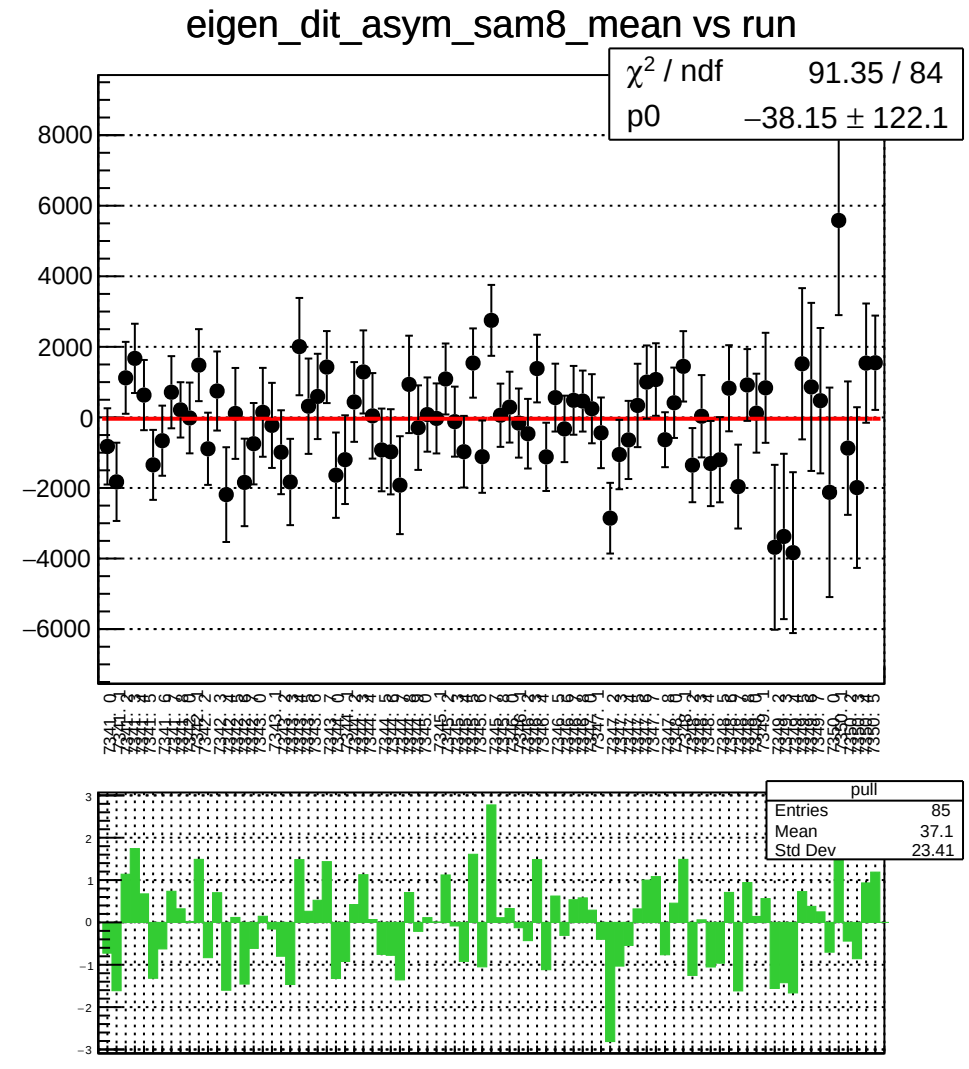

pull1D
Entries 85
Mean −0.03118
Std Dev 1.036

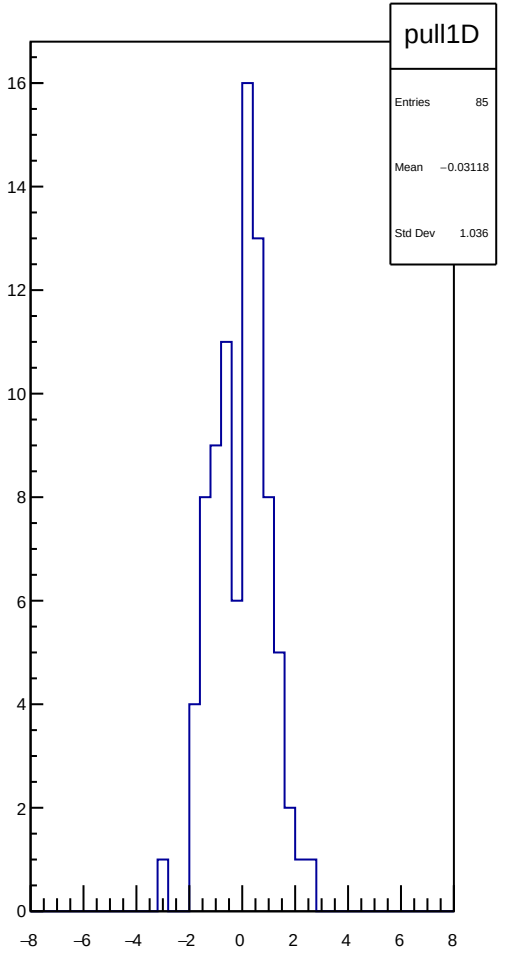

dit_asym_sam8_rms vs run
χ² / ndf 8.207e+04 / 84
p0 106.9 ± 0.08634
300
250
200
150
100

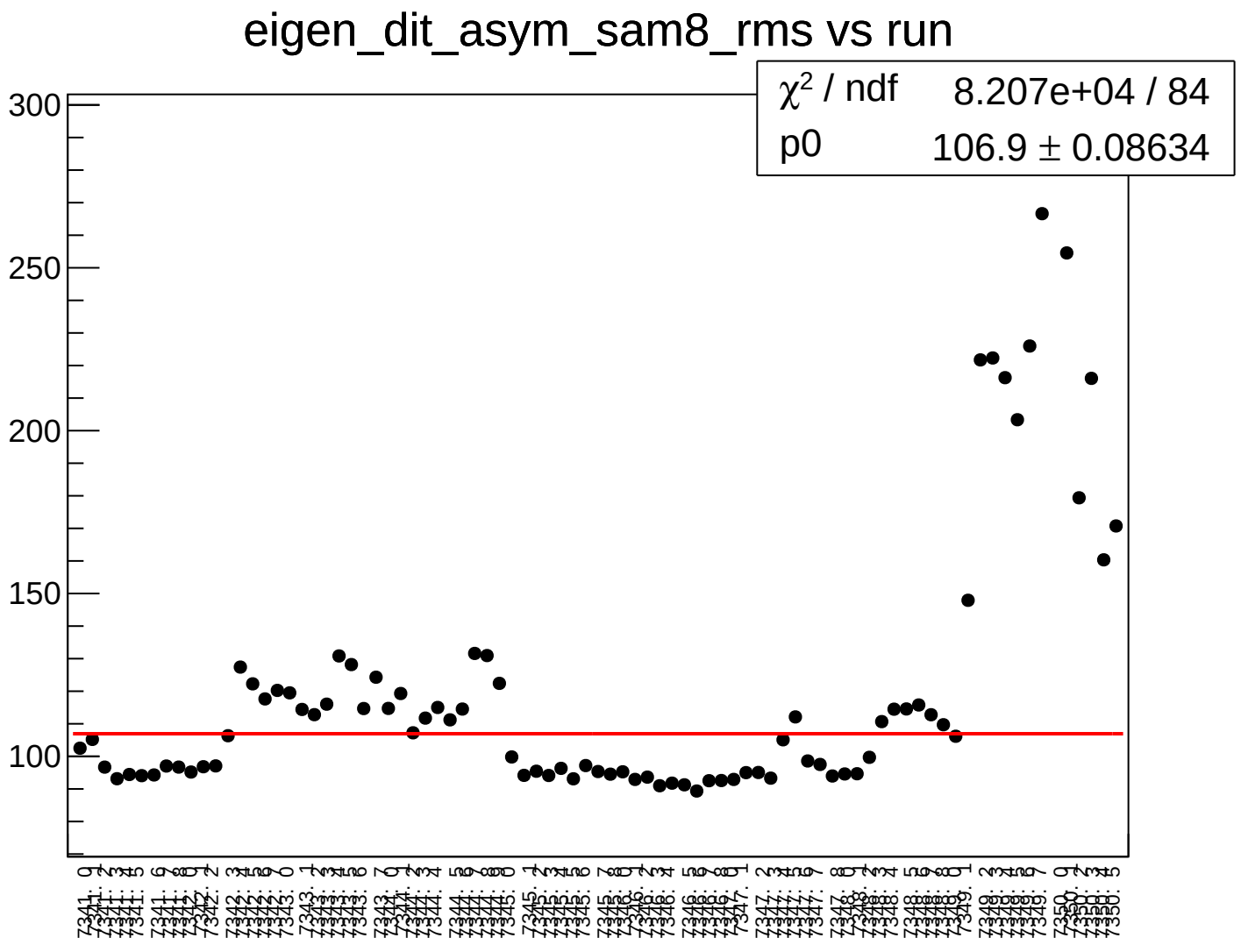

asym_sam8_dit_correction_mean vs run
χ² / ndf 79.1 / 84
p0 −553.9 ± 337.8
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −294.5
Std Dev 0
3
2
1
0
−1
−2

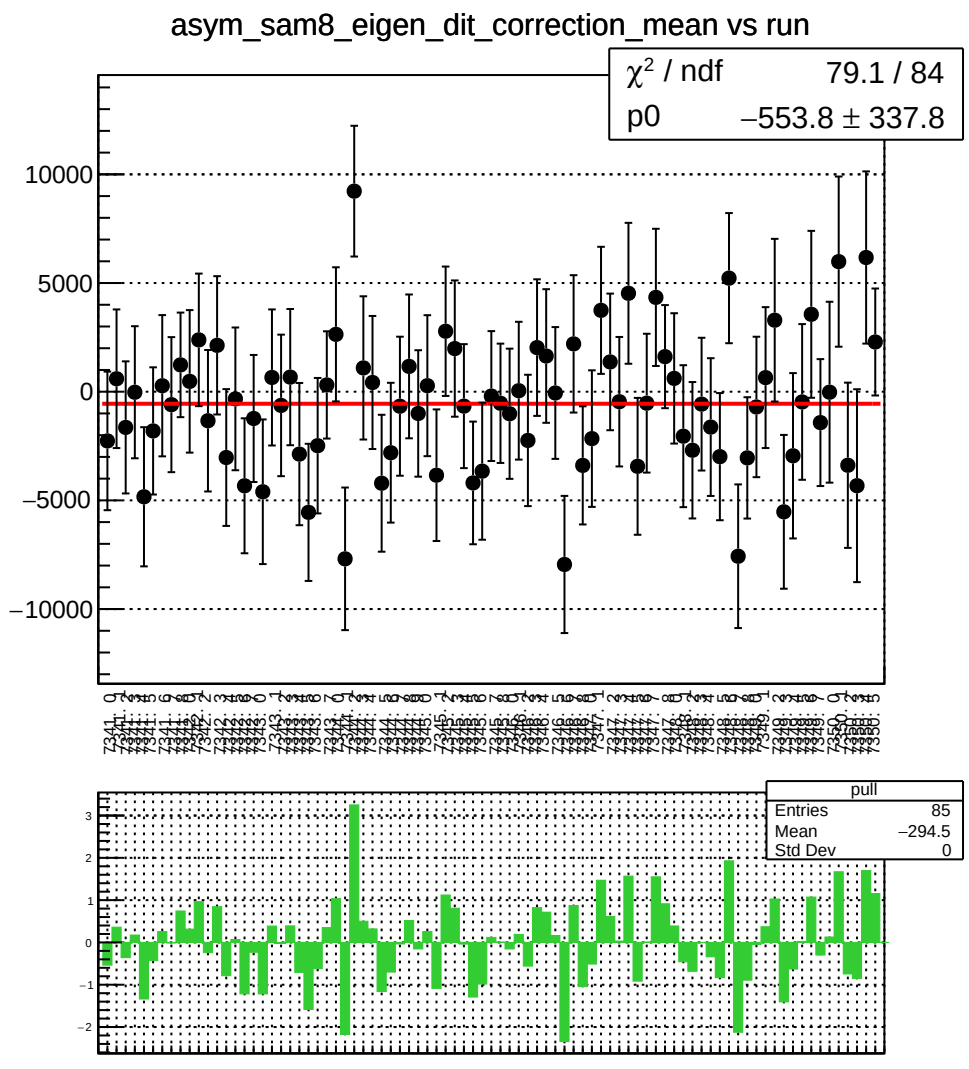

pull1D
Entries 85
Mean −0.006939
Std Dev 0.9647
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

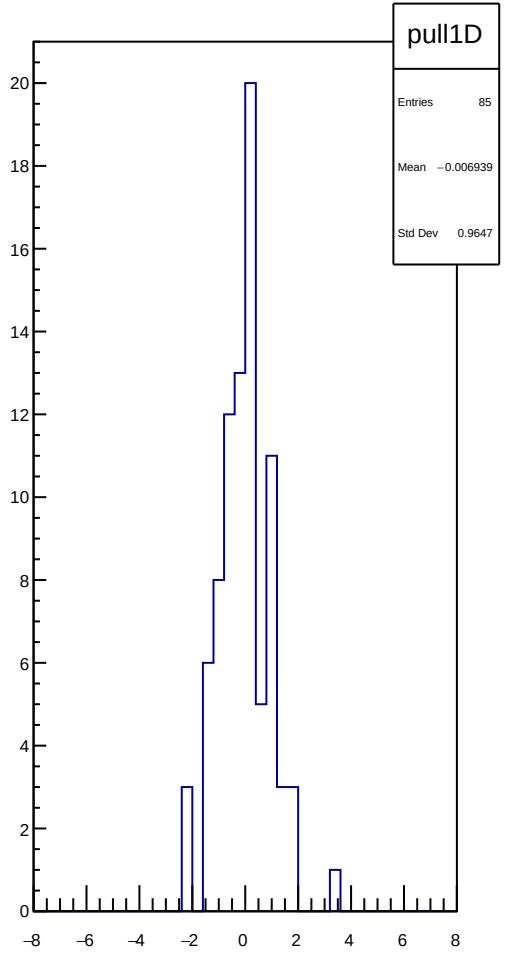

asym_sam8_dit_correction_rms vs run
χ² / ndf 9752 / 84
p0 302.7 ± 0.2388
420
400
380
360
340
320
300
280
260

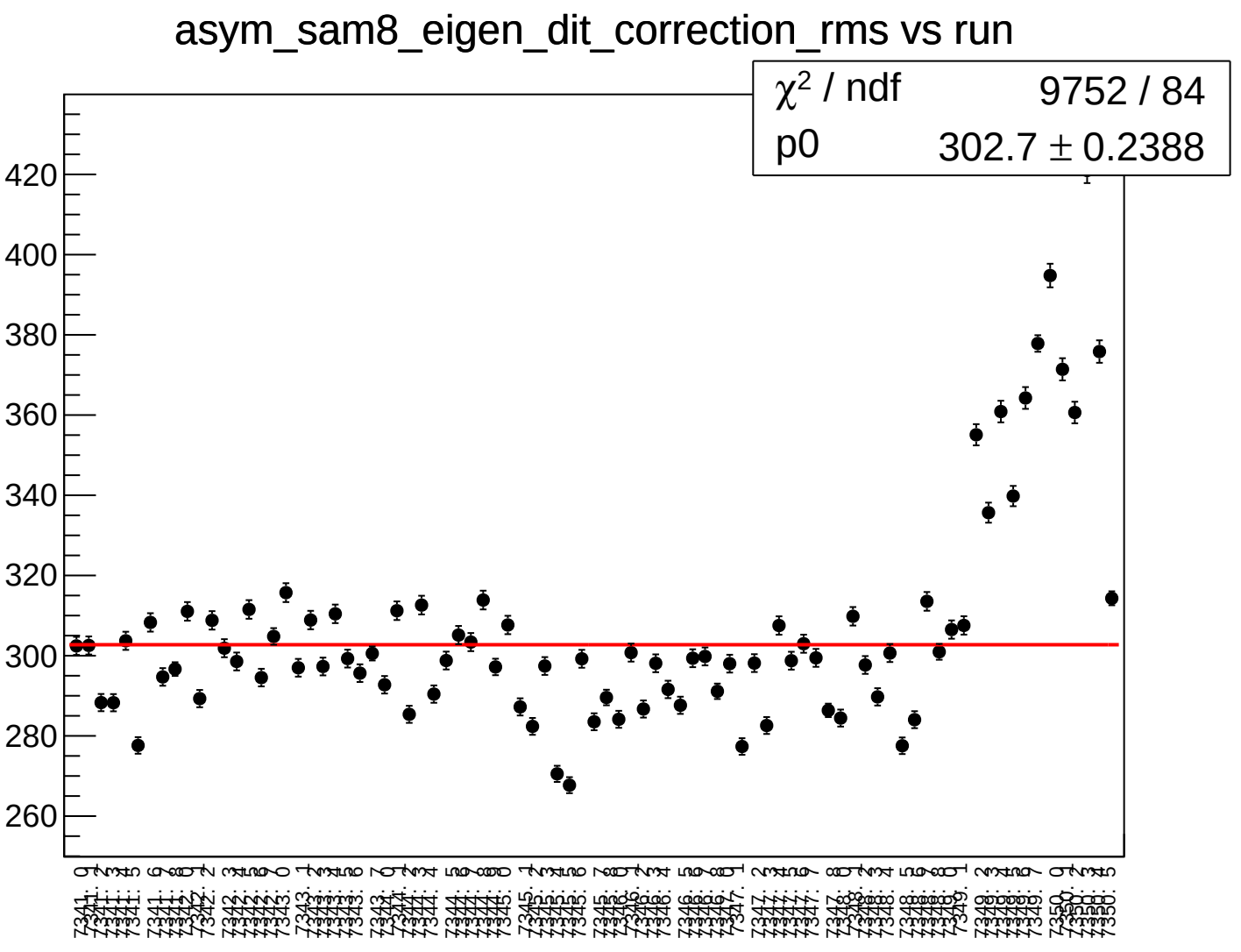

eigen_dit_asym_sam8_mean vs run
χ² / ndf 91.35 / 84
p0 −38.15 ± 122.1
pull
Entries 85
Mean 37.1
Std Dev 23.41

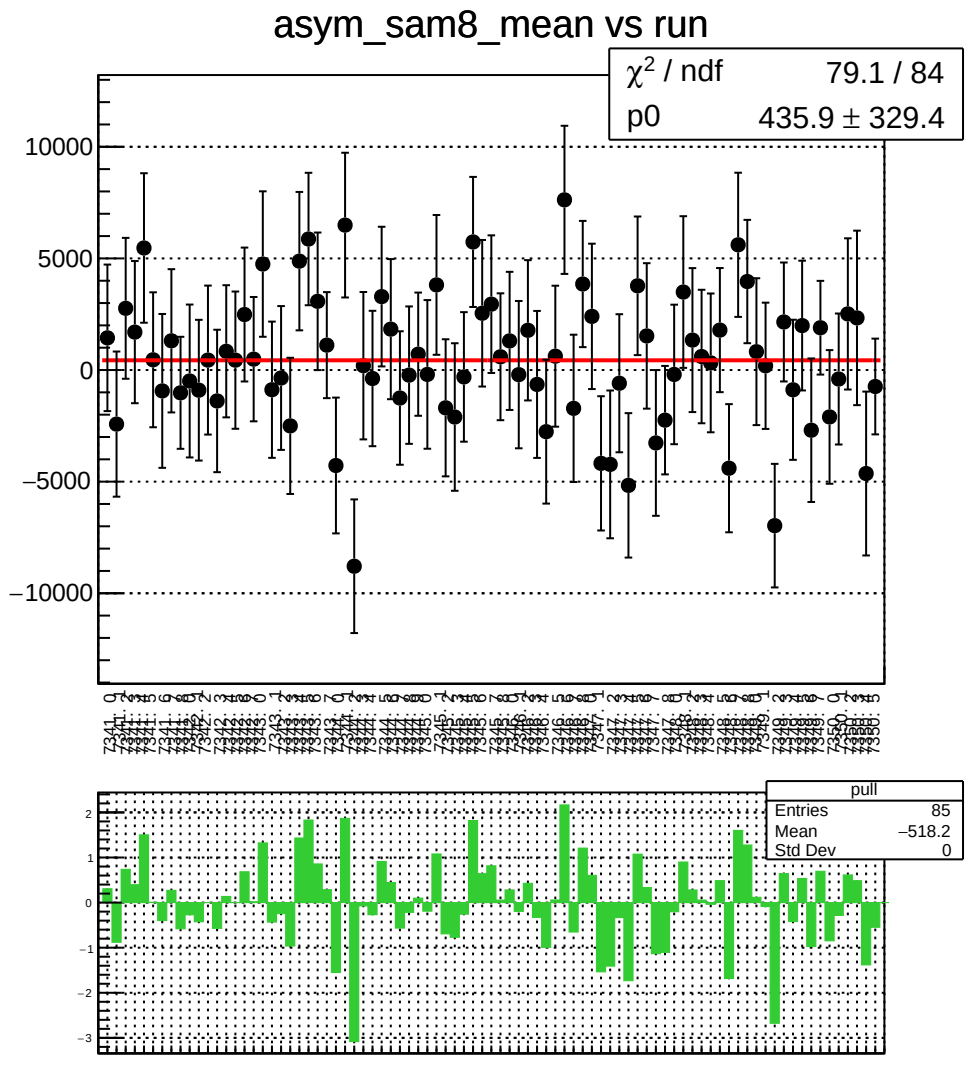

pull1D
Entries 85
Mean −0.03118
Std Dev 1.036

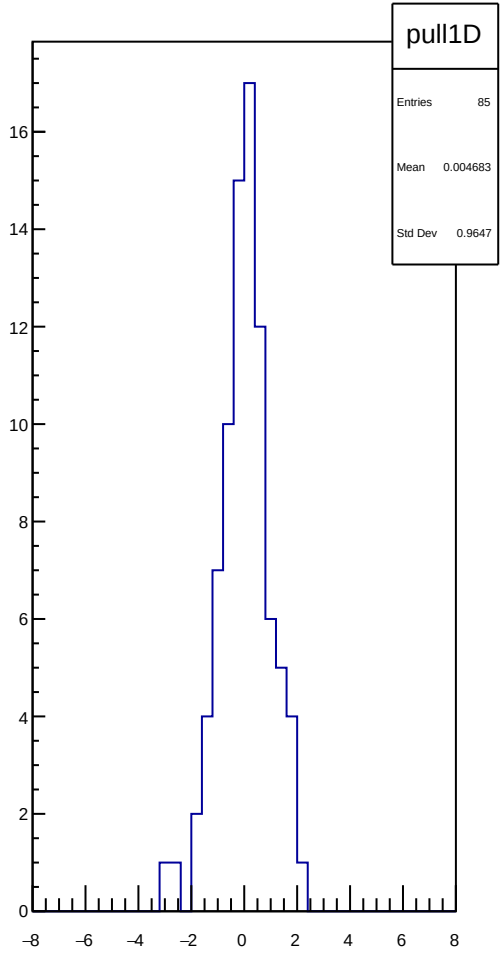

eigen_dit_asym_sam8_rms vs run
χ² / ndf 8.207e+04 / 84
p0 106.9 ± 0.08634
300
250
200
150
100

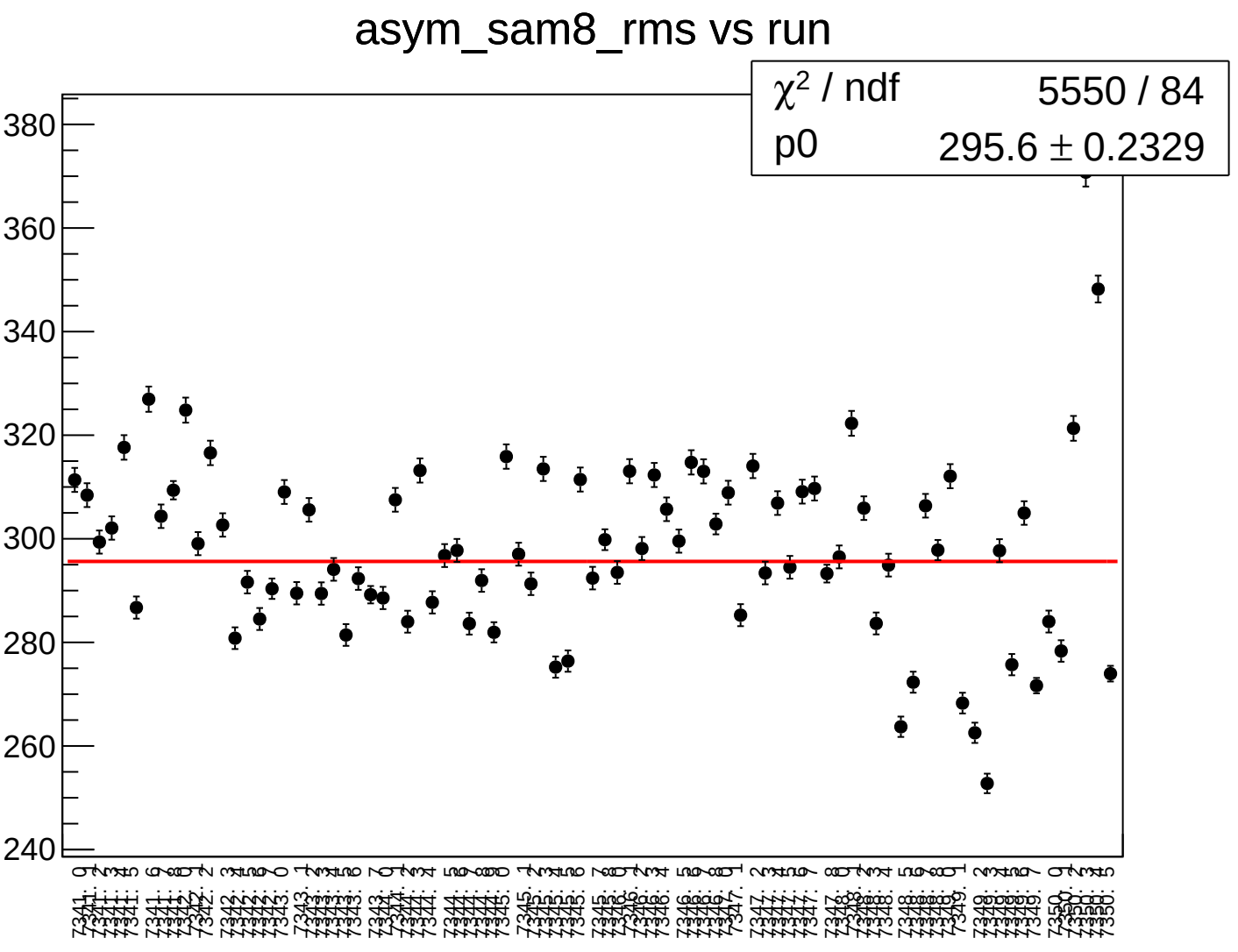

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 79.1 / 84
p0 −553.8 ± 337.8
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −294.5
Std Dev 0
3
2
1
0
−1
−2

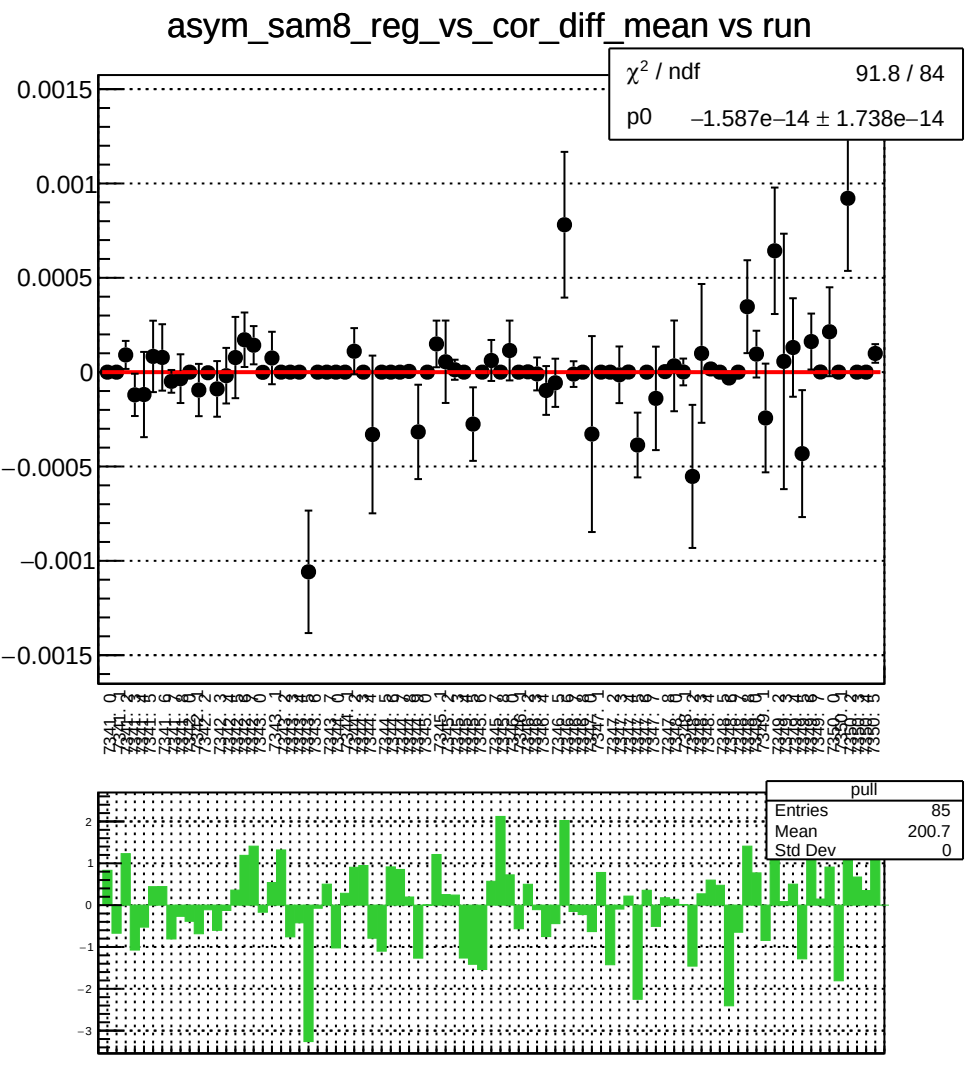

pull1D
Entries 85
Mean −0.006939
Std Dev 0.9647
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

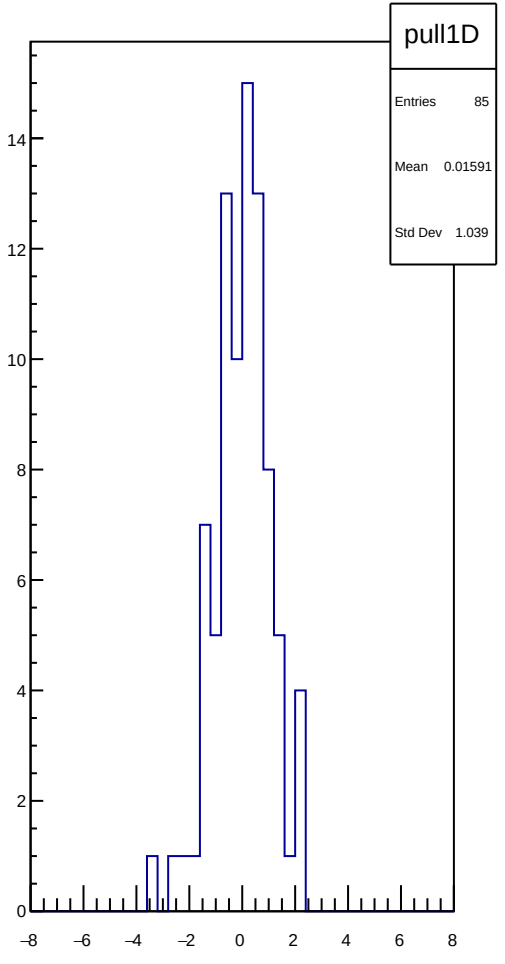

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 9752 / 84
p0 302.7 ± 0.2388
420
400
380
360
340
320
300
280
260

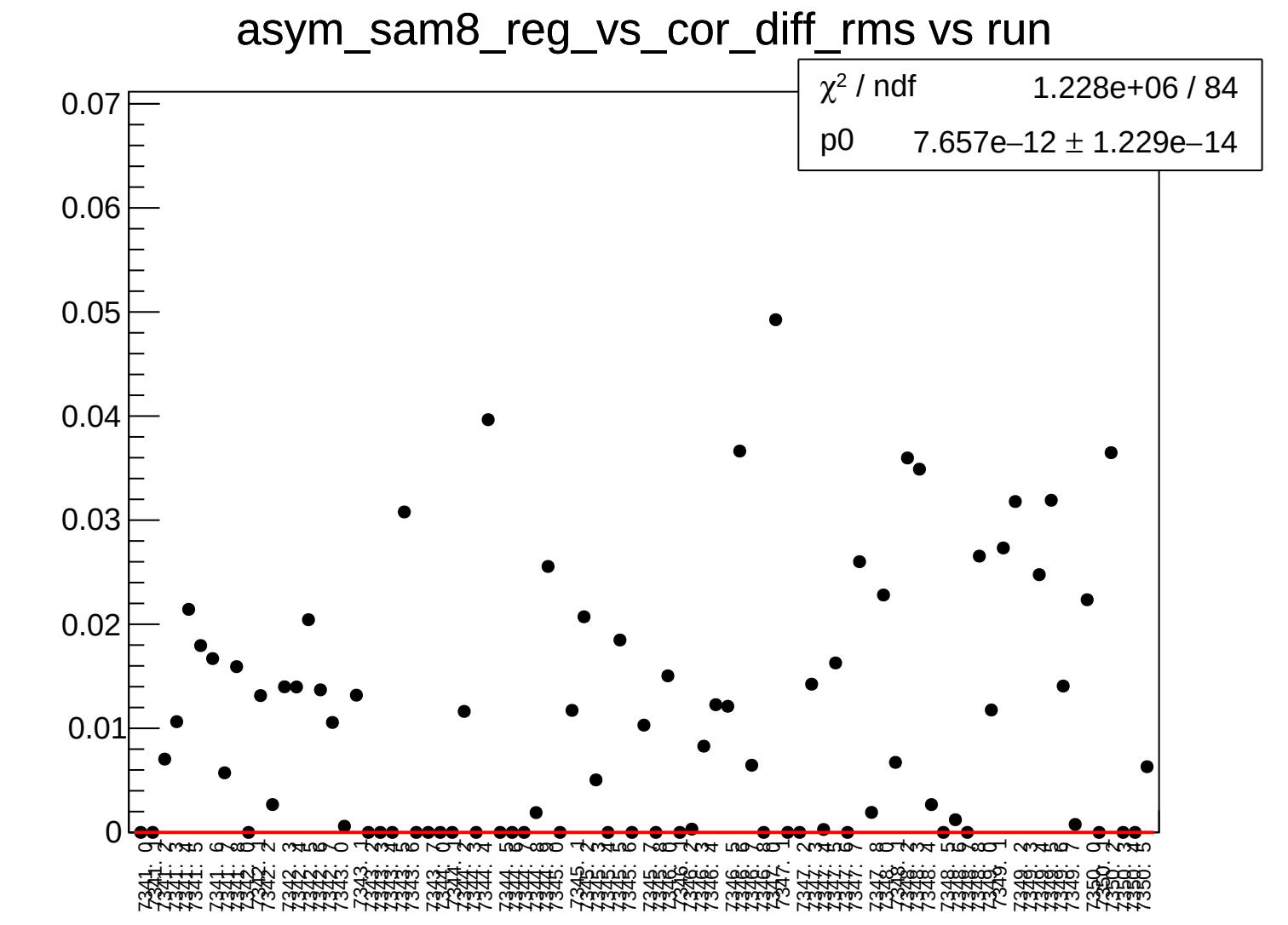

asym_sam8_mean vs run
χ² / ndf 79.1 / 84
p0 435.9 ± 329.4
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −518.2
Std Dev 0
2
1
0
−1
−2
−3

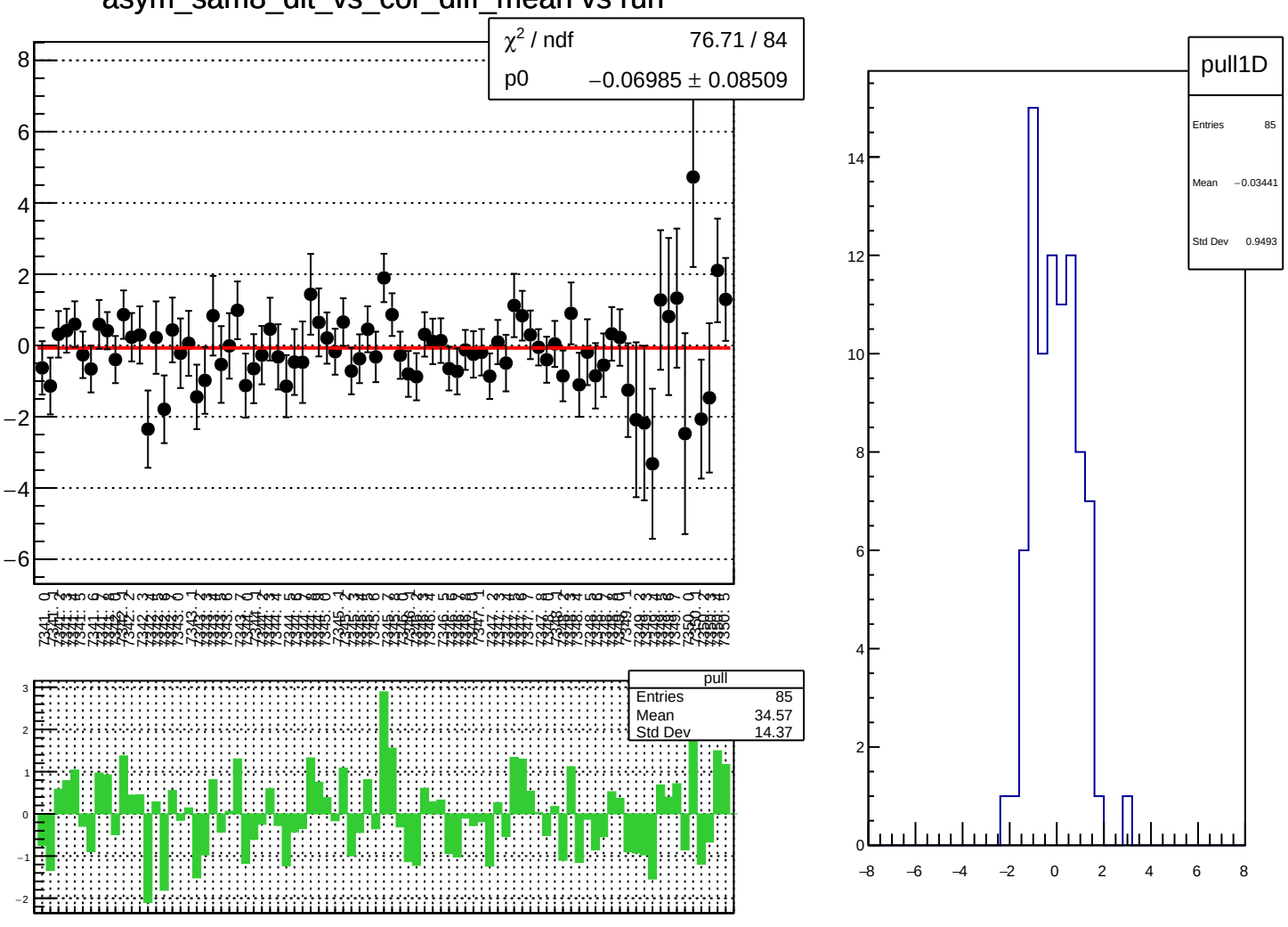

pull1D
Entries 85
Mean 0.004683
Std Dev 0.9647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

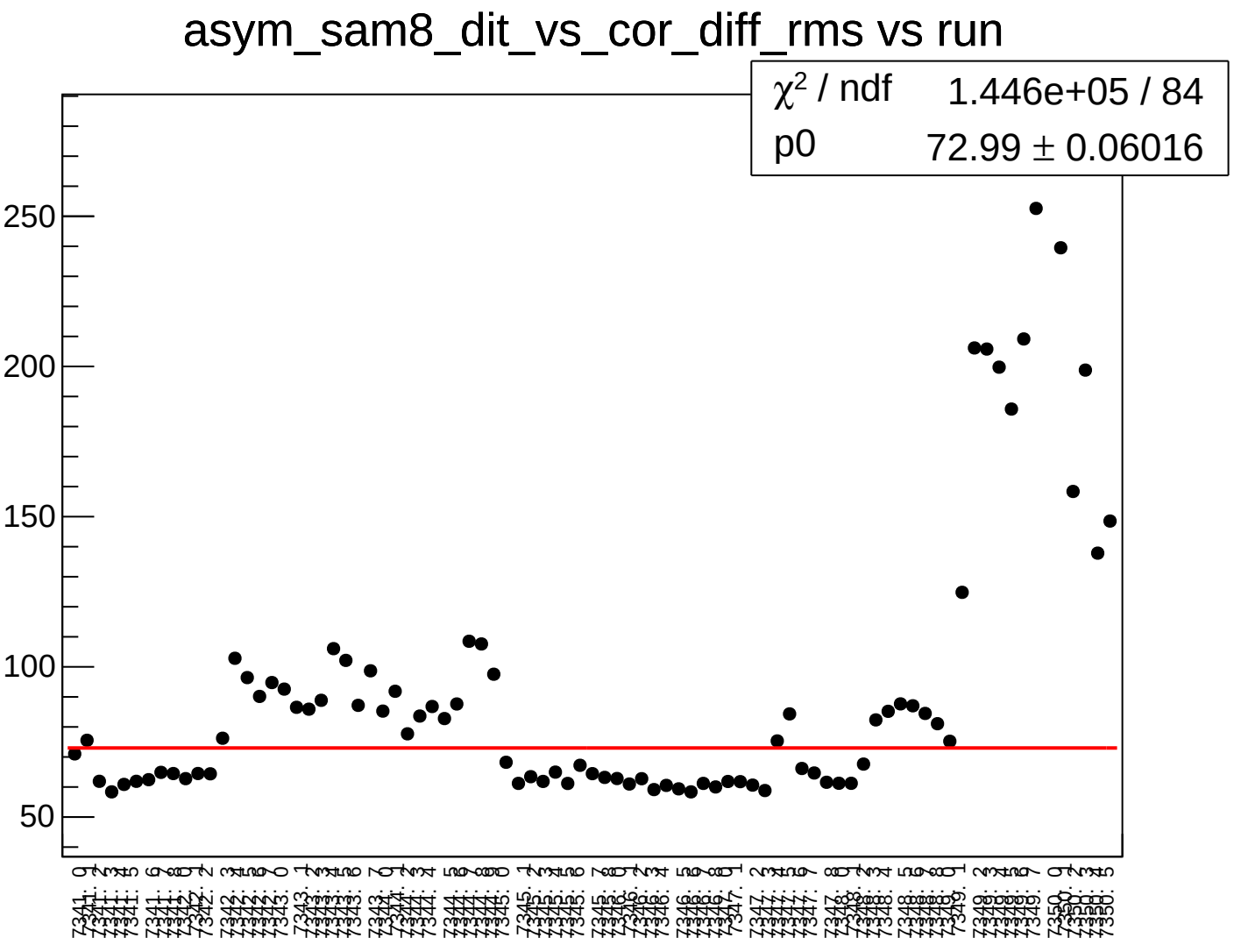

asym_sam8_rms vs run
χ² / ndf 5550 / 84
p0 295.6 ± 0.2329
380
360
340
320
300
280
260
240

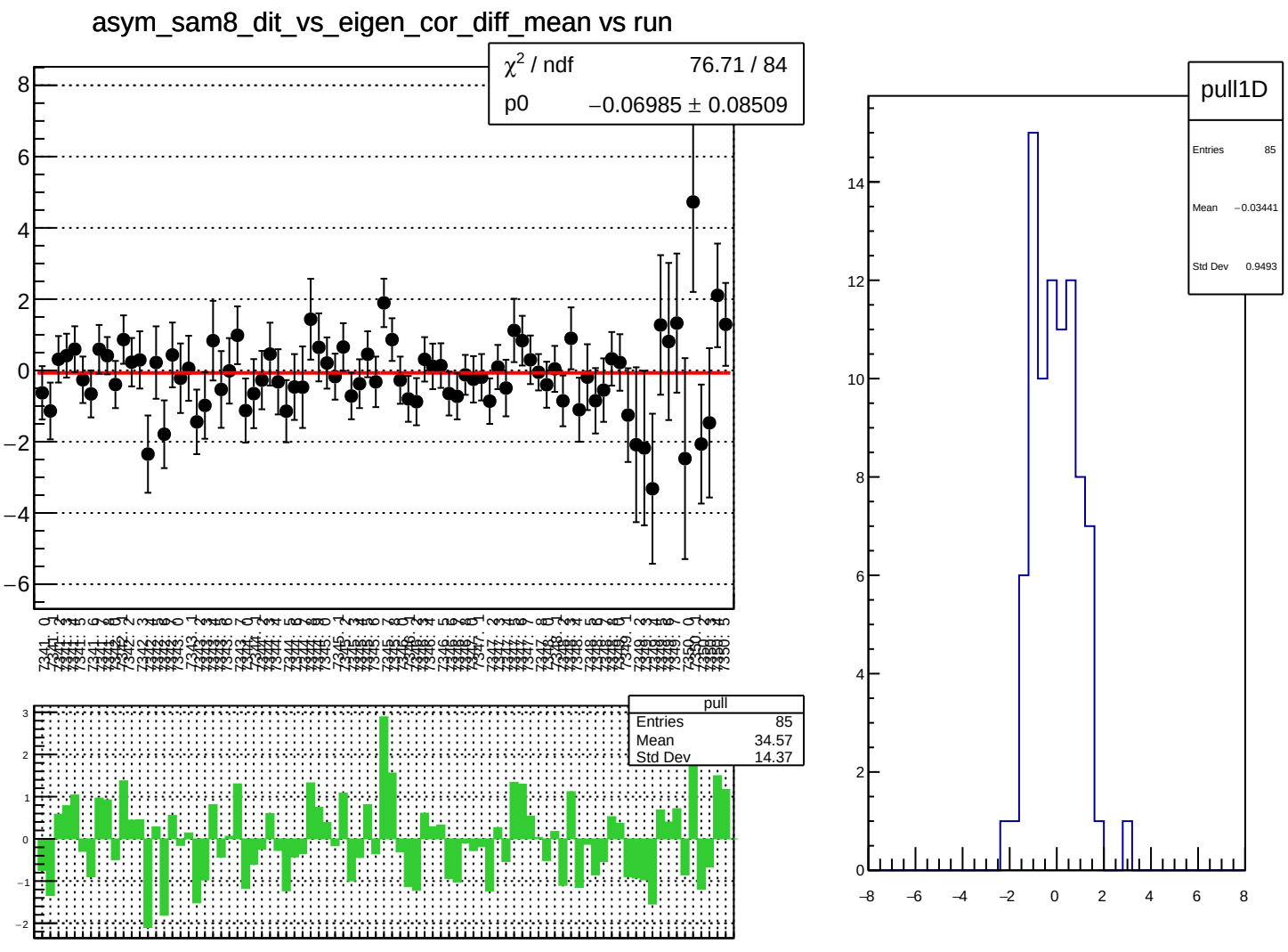

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 91.8 / 84
p0 −1.587e−14 ± 1.738e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 200.7
Std Dev 0
2
1
0
−1
−2
−3

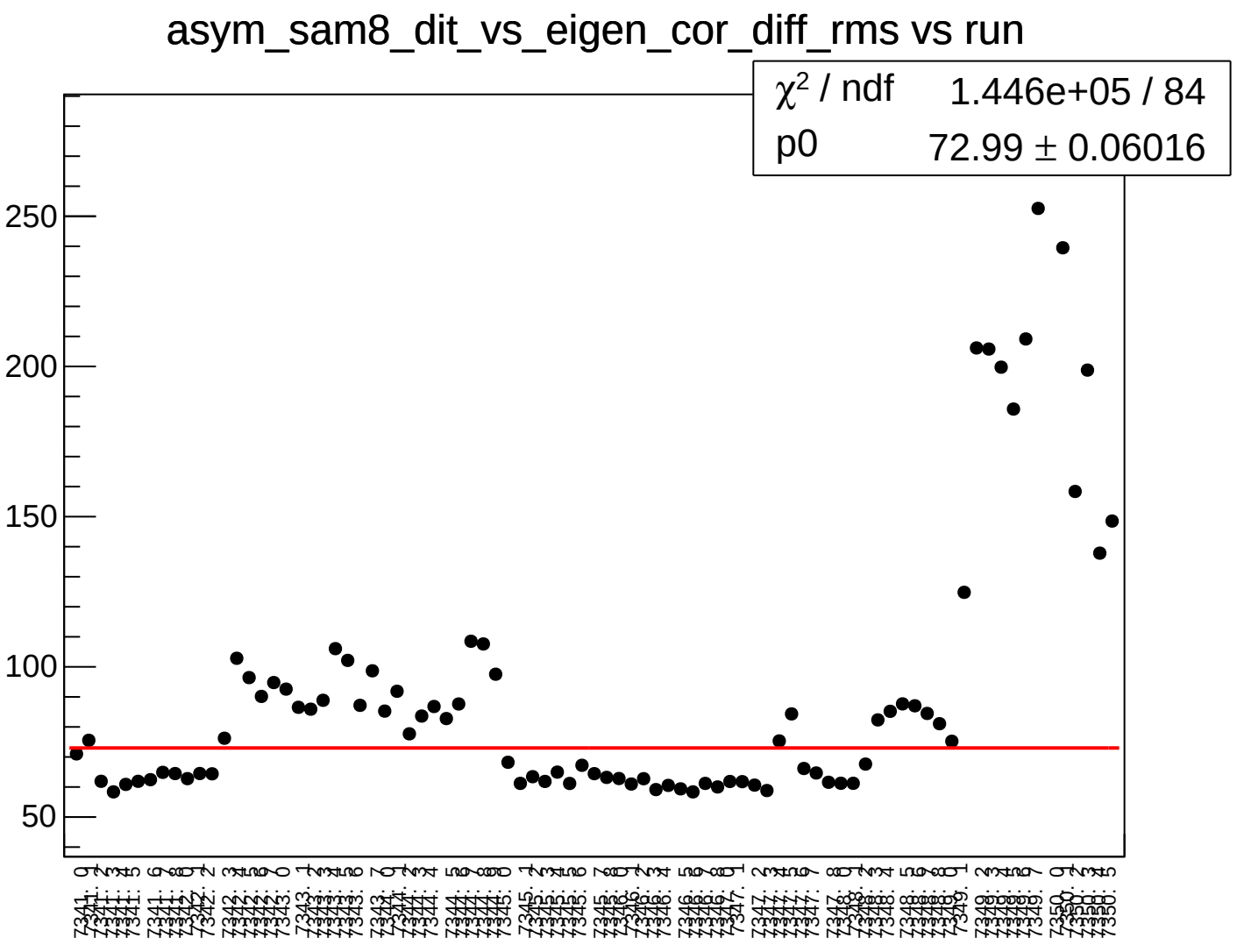

pull1D
Entries 85
Mean 0.01591
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

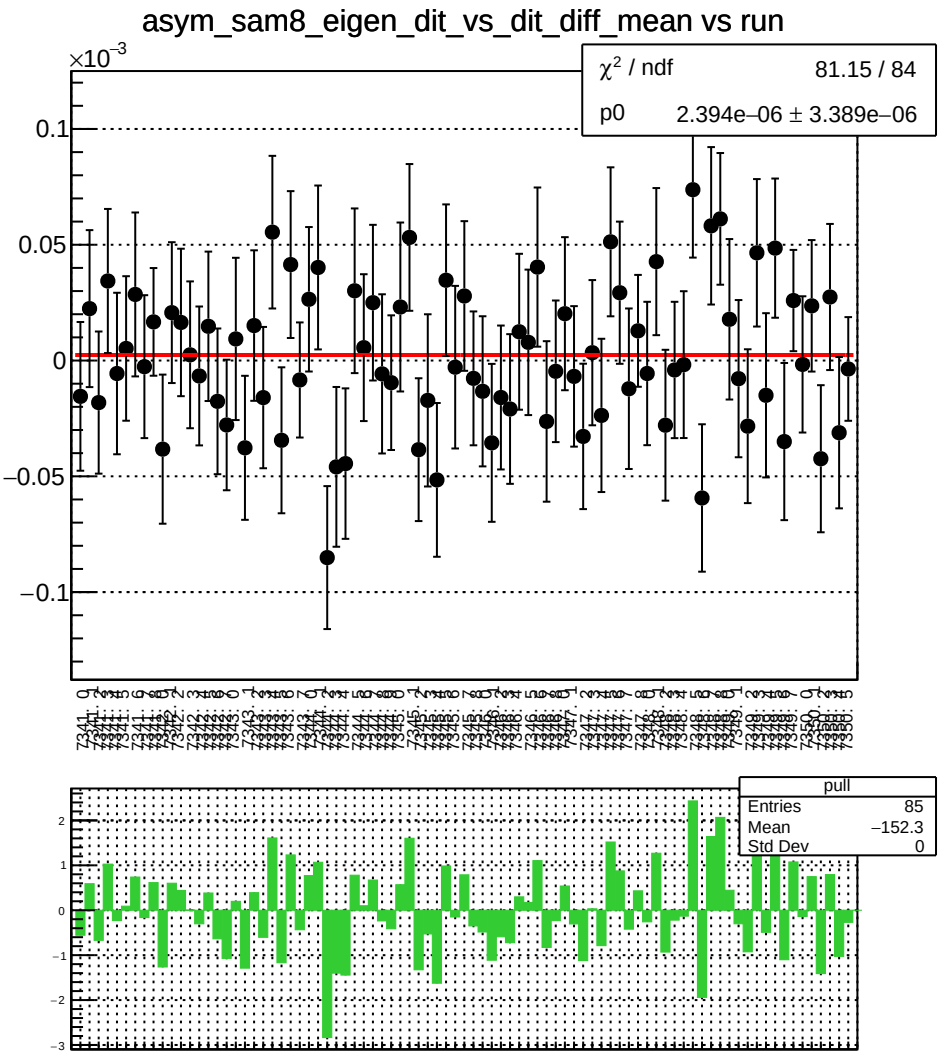

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.228e+06 / 84
p0 7.657e−12 ± 1.229e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

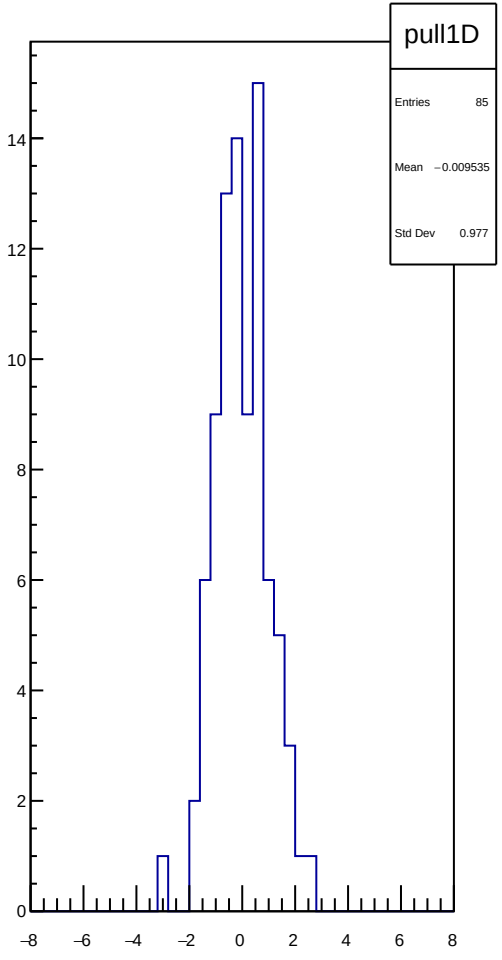

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 76.71 / 84
p0 −0.06985 ± 0.08509
pull
Entries 85
Mean 34.57
Std Dev 14.37
pull1D
Entries 85
Mean −0.03441
Std Dev 0.9493

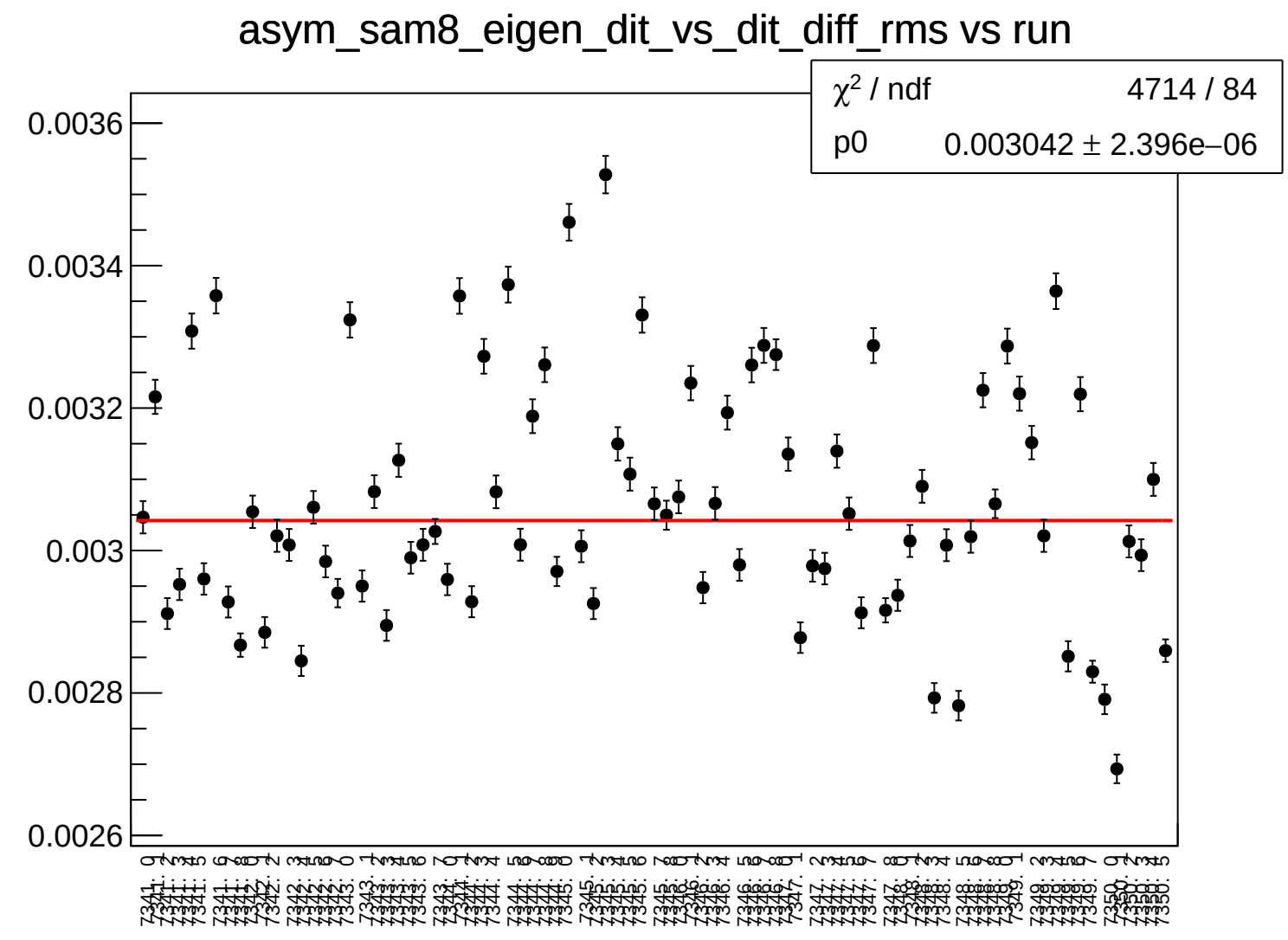

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.446e+05 / 84
p0 72.99 ± 0.06016
250
200
150
100
50

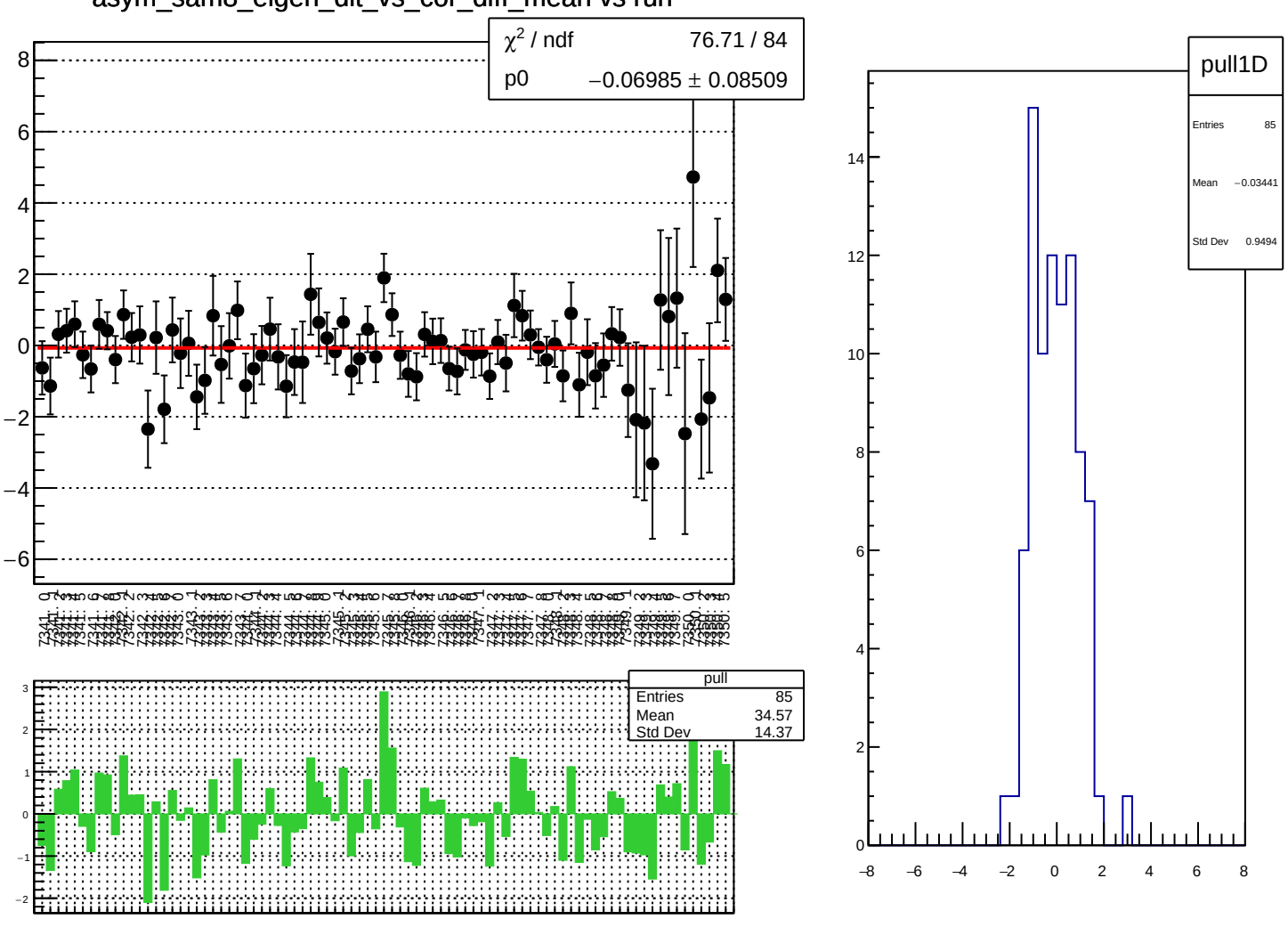

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.71 / 84
p0 −0.06985 ± 0.08509
pull
Entries 85
Mean 34.57
Std Dev 14.37
pull1D
Entries 85
Mean −0.03441
Std Dev 0.9493

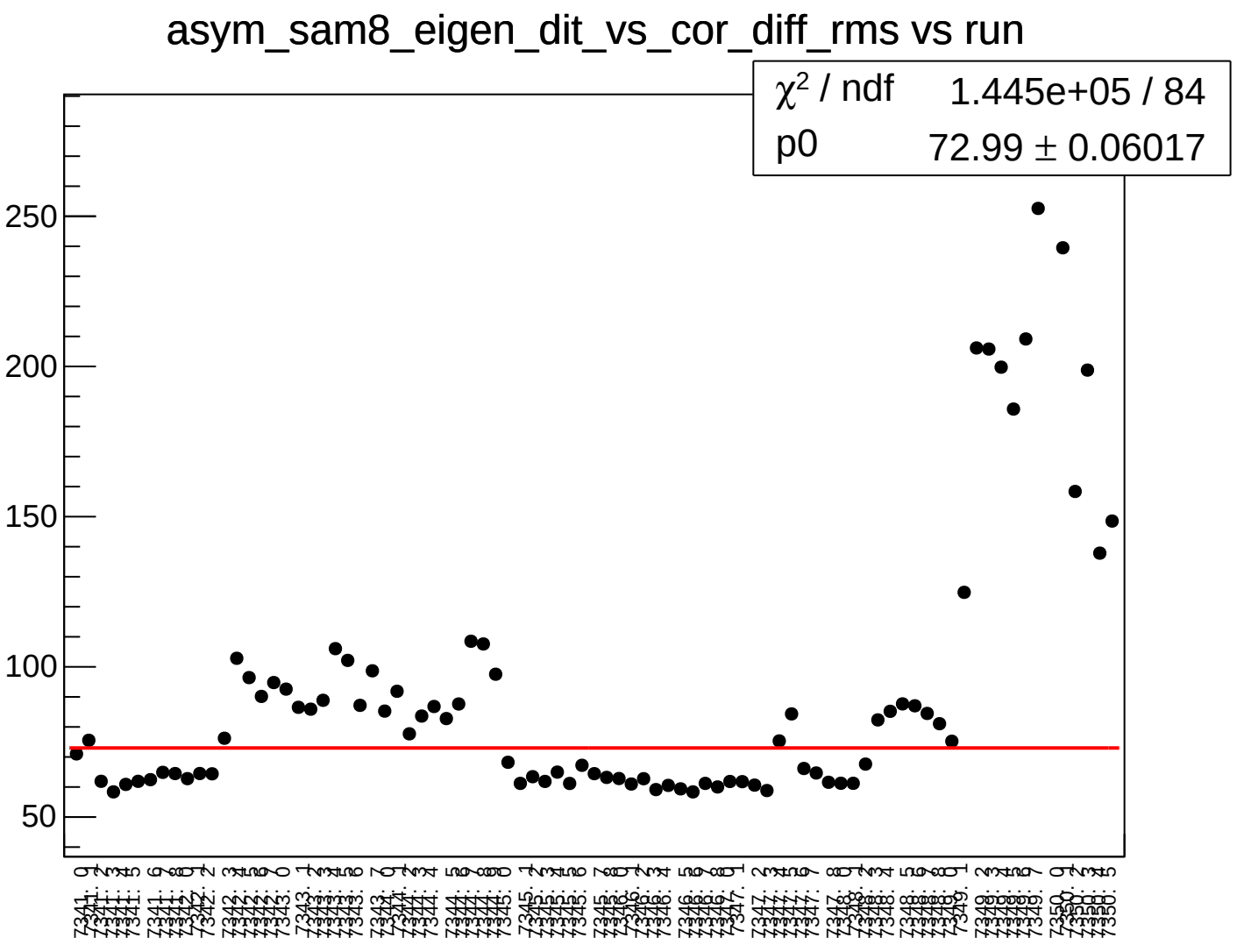

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.446e+05 / 84
p0 72.99 ± 0.06016
250
200
150
100
50

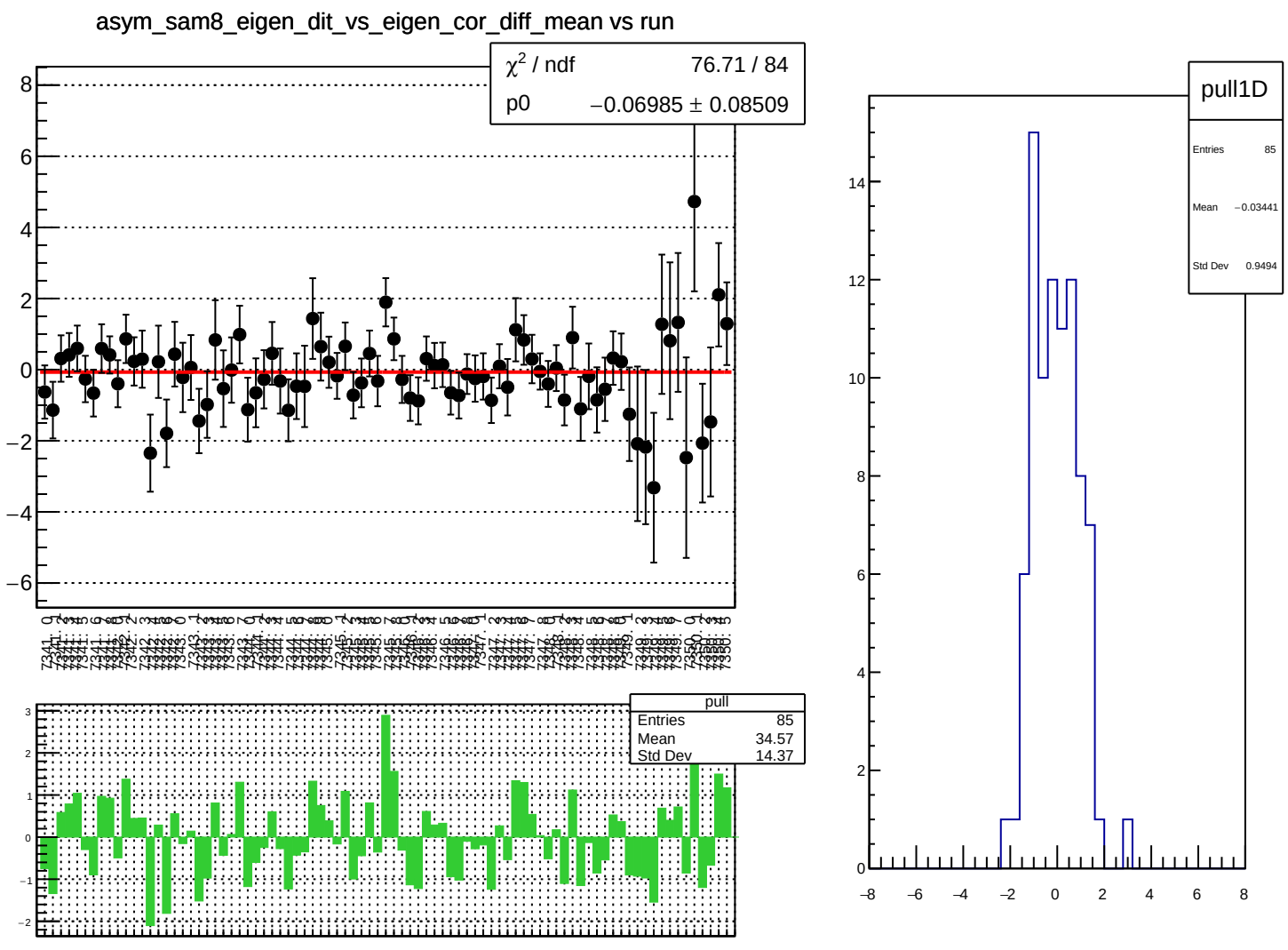

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.15 / 84
p0 2.394e−06 ± 3.389e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean −152.3
Std Dev 0
2
1
0
−1
−2
−3

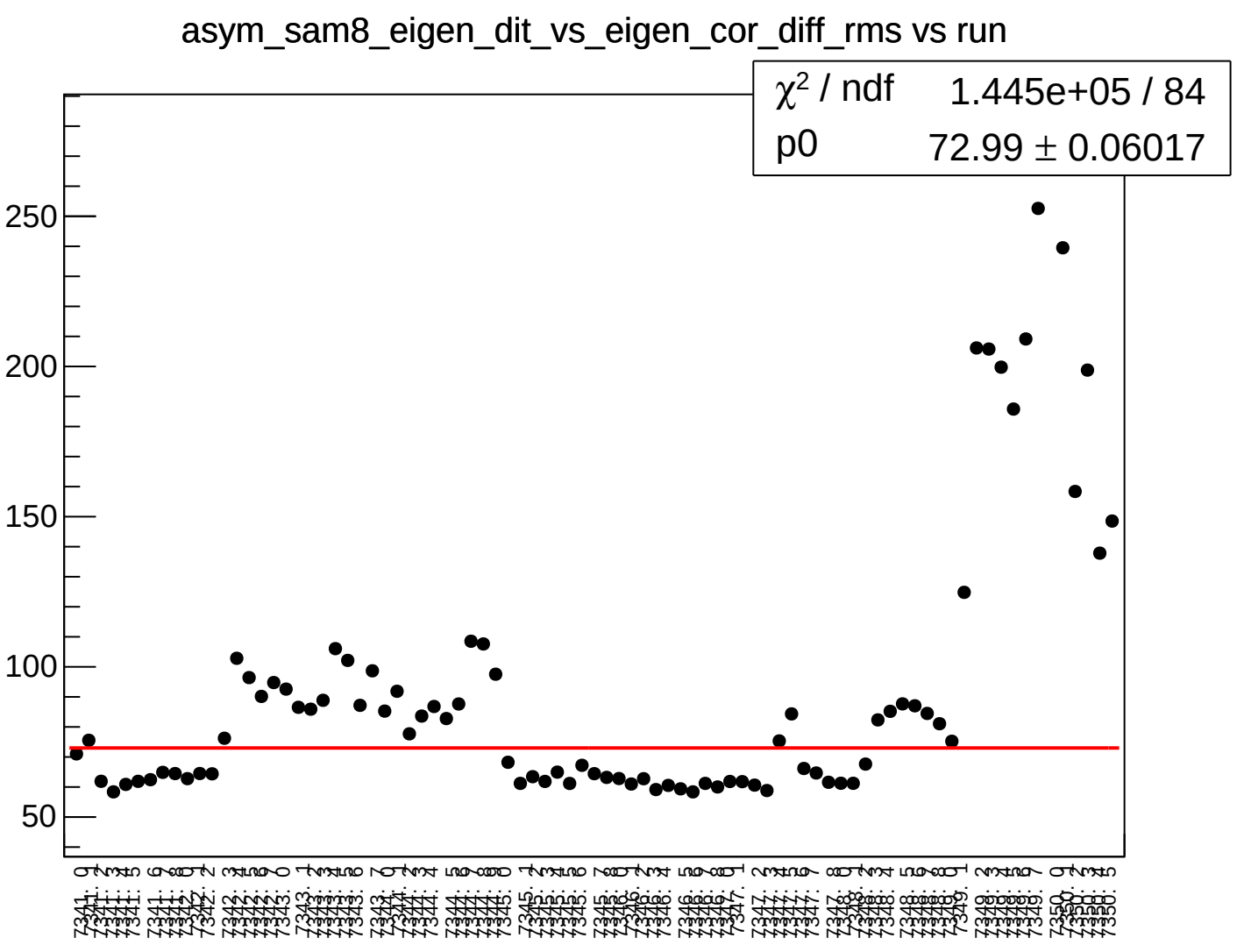

pull1D
Entries 85
Mean −0.009535
Std Dev 0.977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

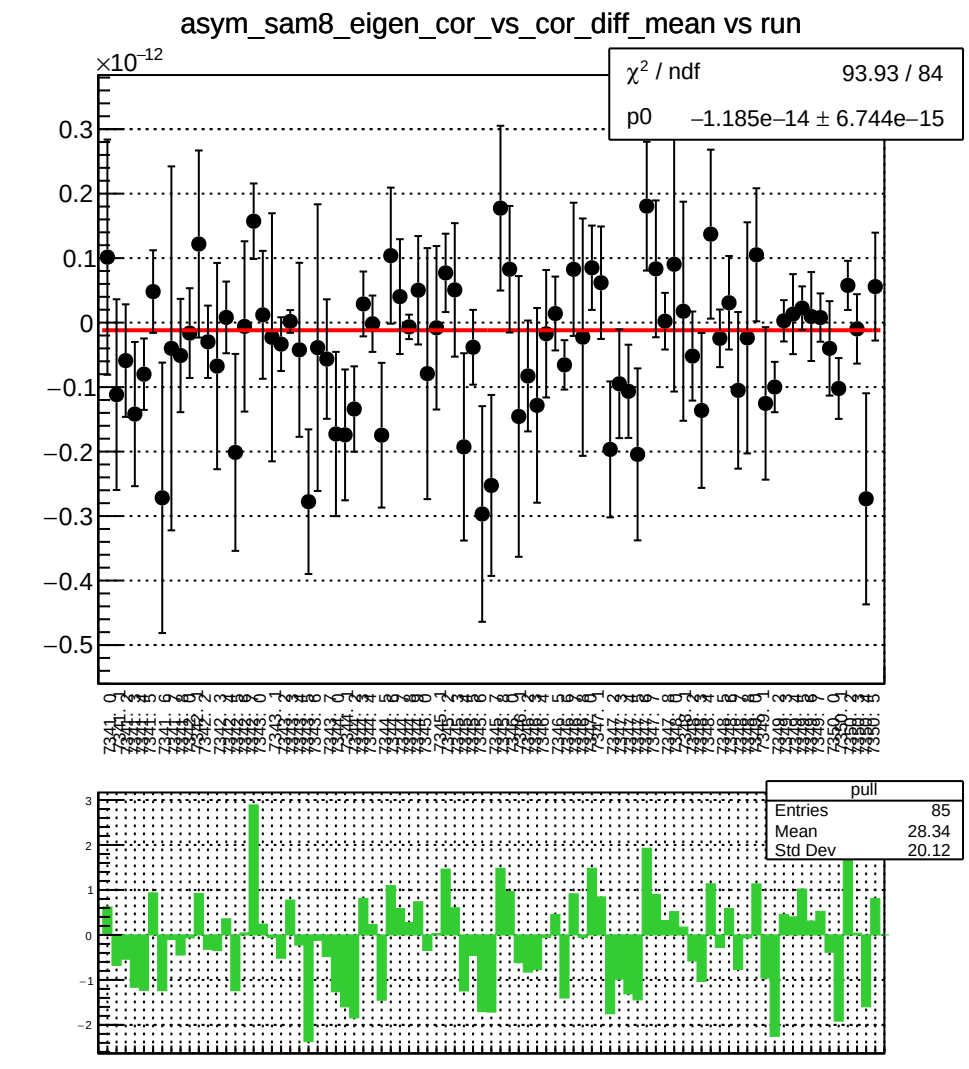

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4714 / 84
p0 0.003042 ± 2.396e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

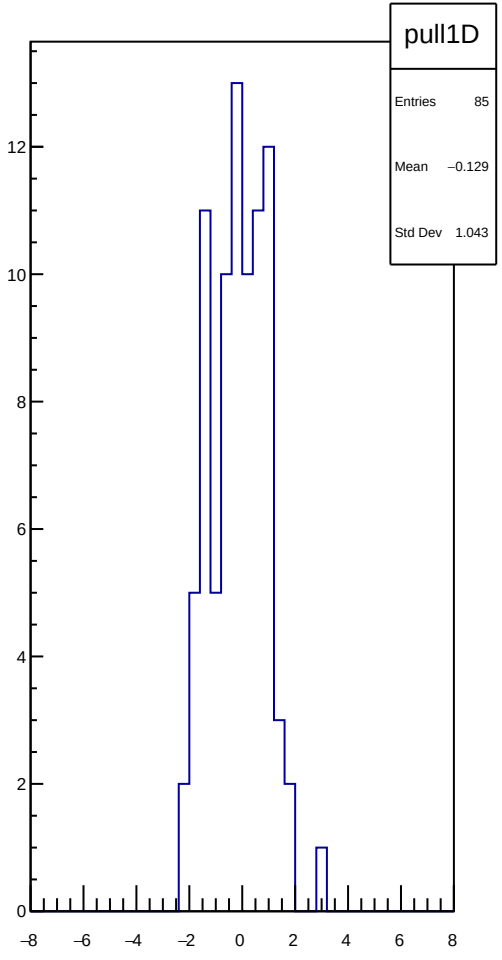

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.71 / 84
p0 −0.06985 ± 0.08509
pull
Entries 85
Mean 34.57
Std Dev 14.37
pull1D
Entries 85
Mean −0.03441
Std Dev 0.9494

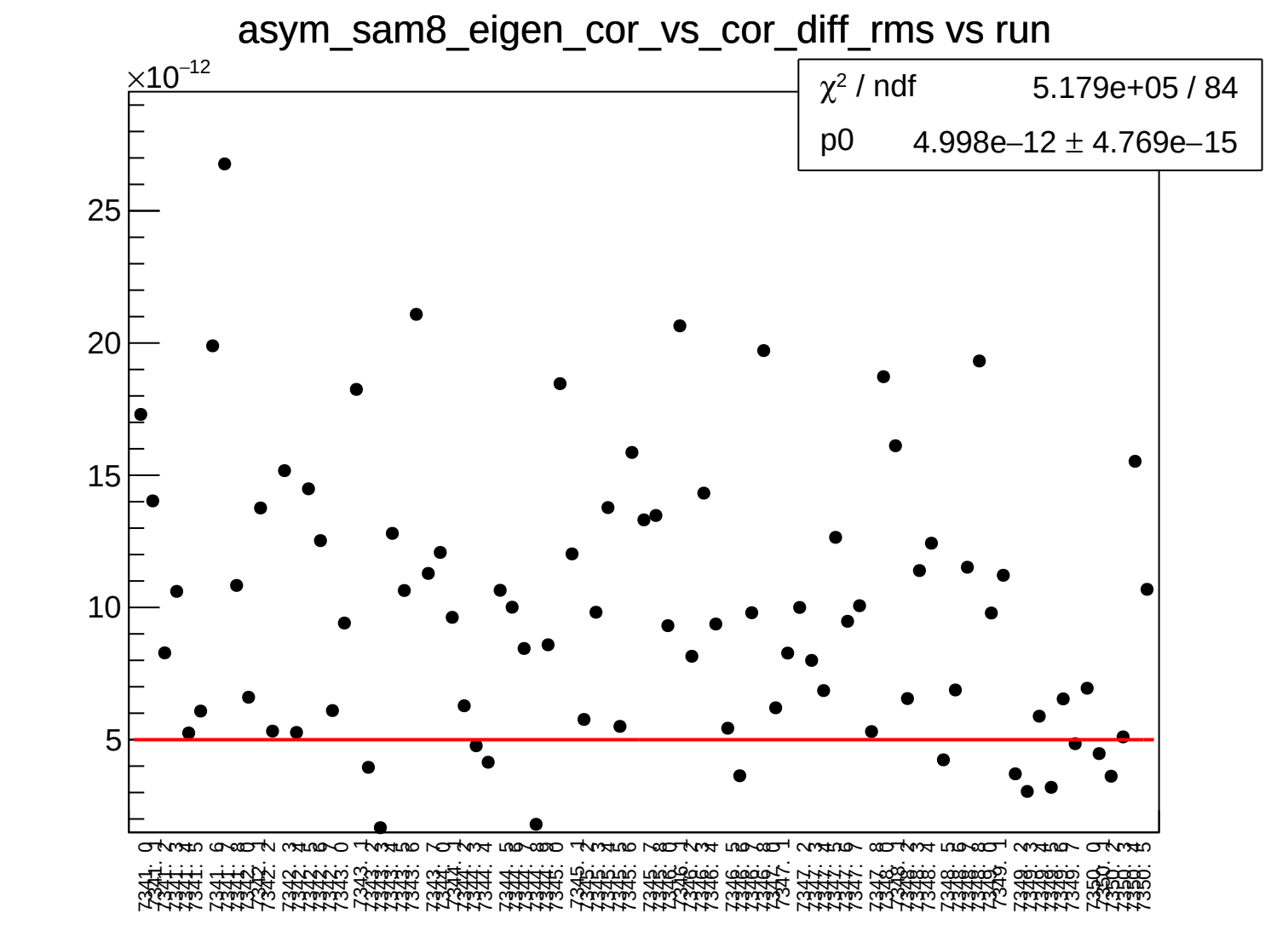

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.445e+05 / 84
p0 72.99 ± 0.06017
250
200
150
100
50

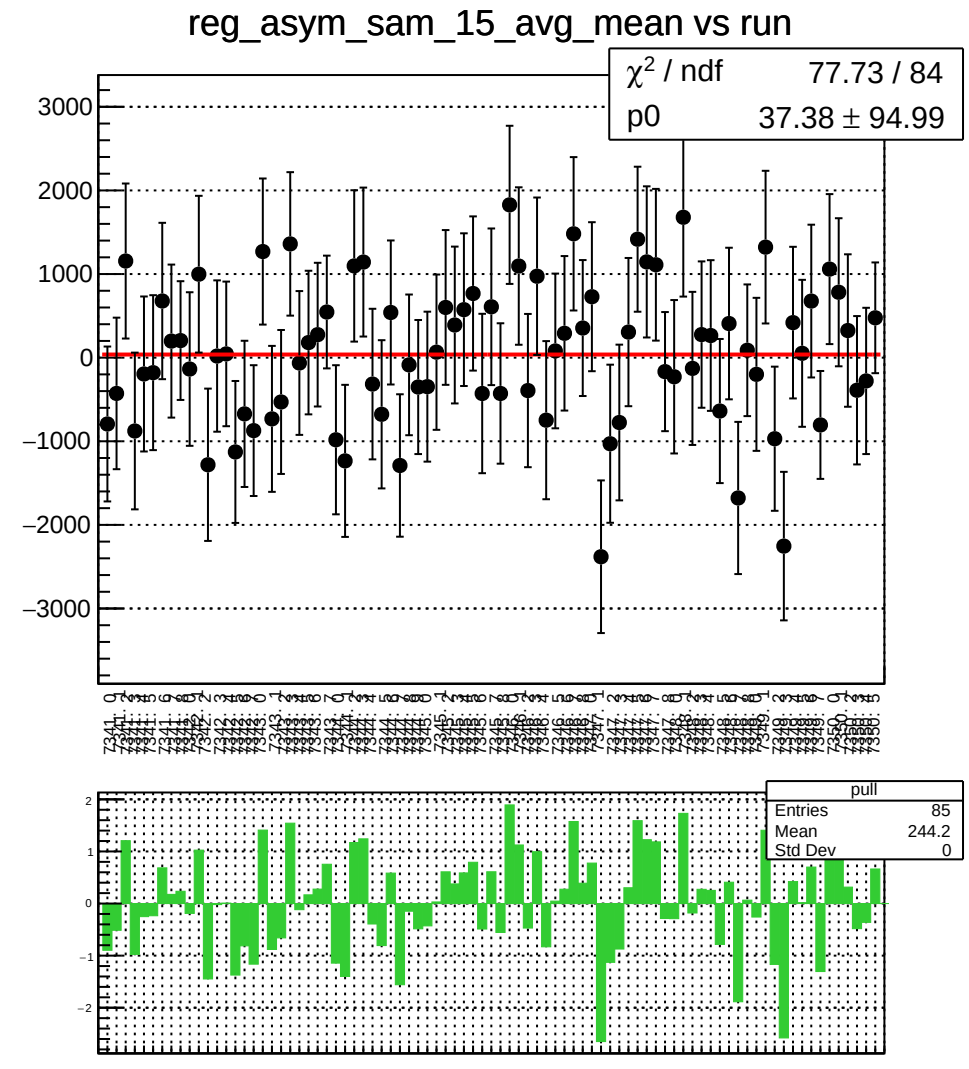

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.71 / 84
p0 −0.06985 ± 0.08509
pull
Entries 85
Mean 34.57
Std Dev 14.37
pull1D
Entries 85
Mean −0.03441
Std Dev 0.9494

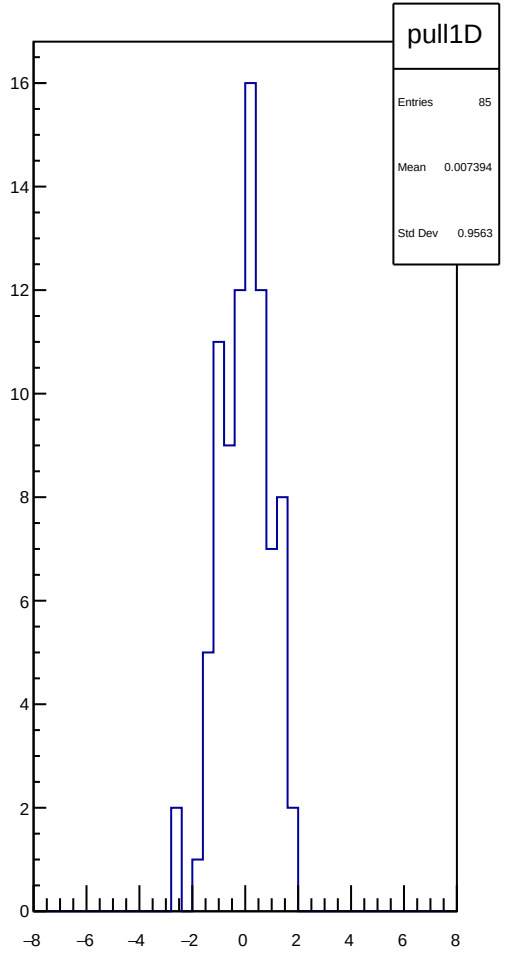

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.445e+05 / 84
p0 72.99 ± 0.06017
250
200
150
100
50

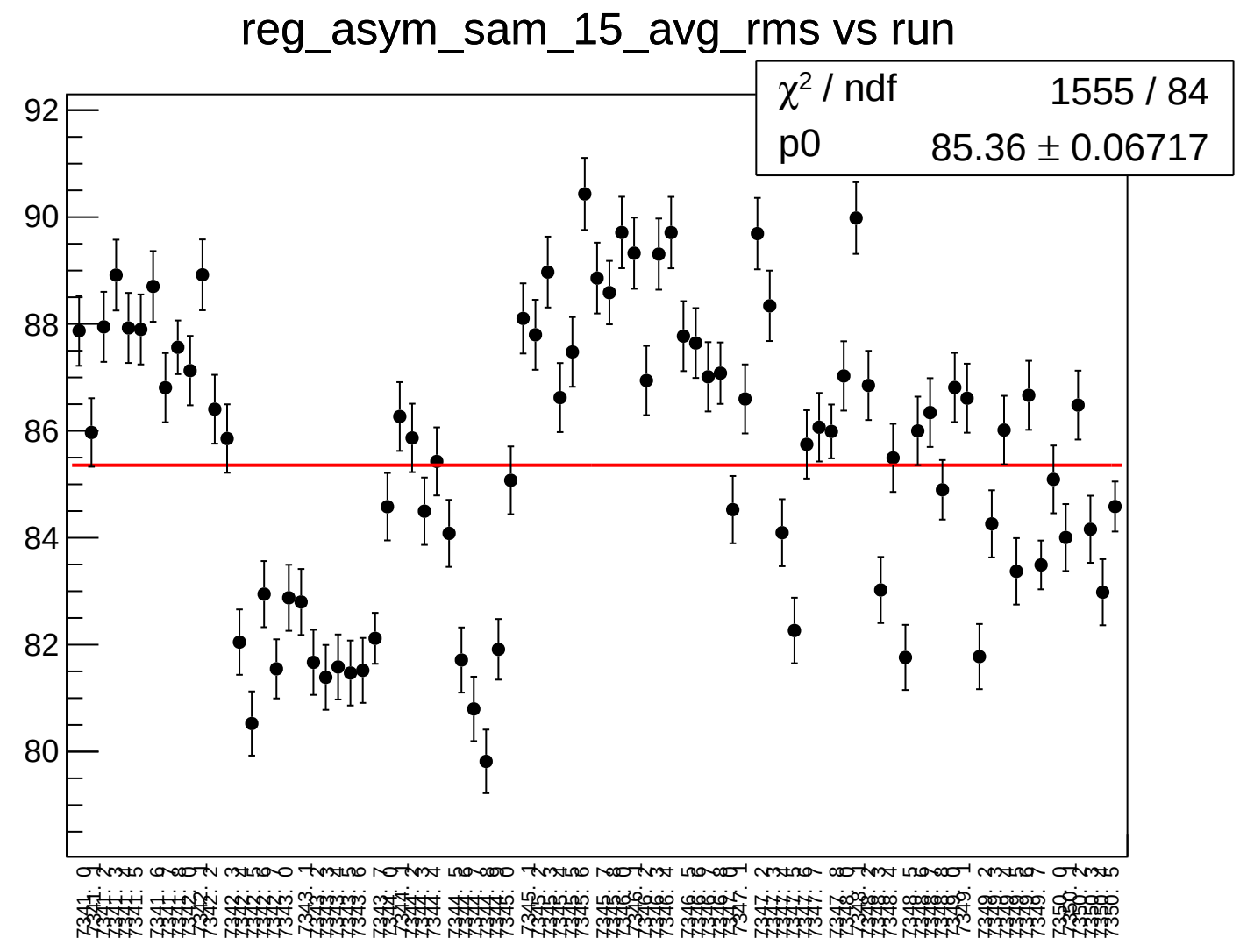

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.93 / 84
p0 −1.185e−14 ± 6.744e−15
pull
Entries 85
Mean 28.34
Std Dev 20.12

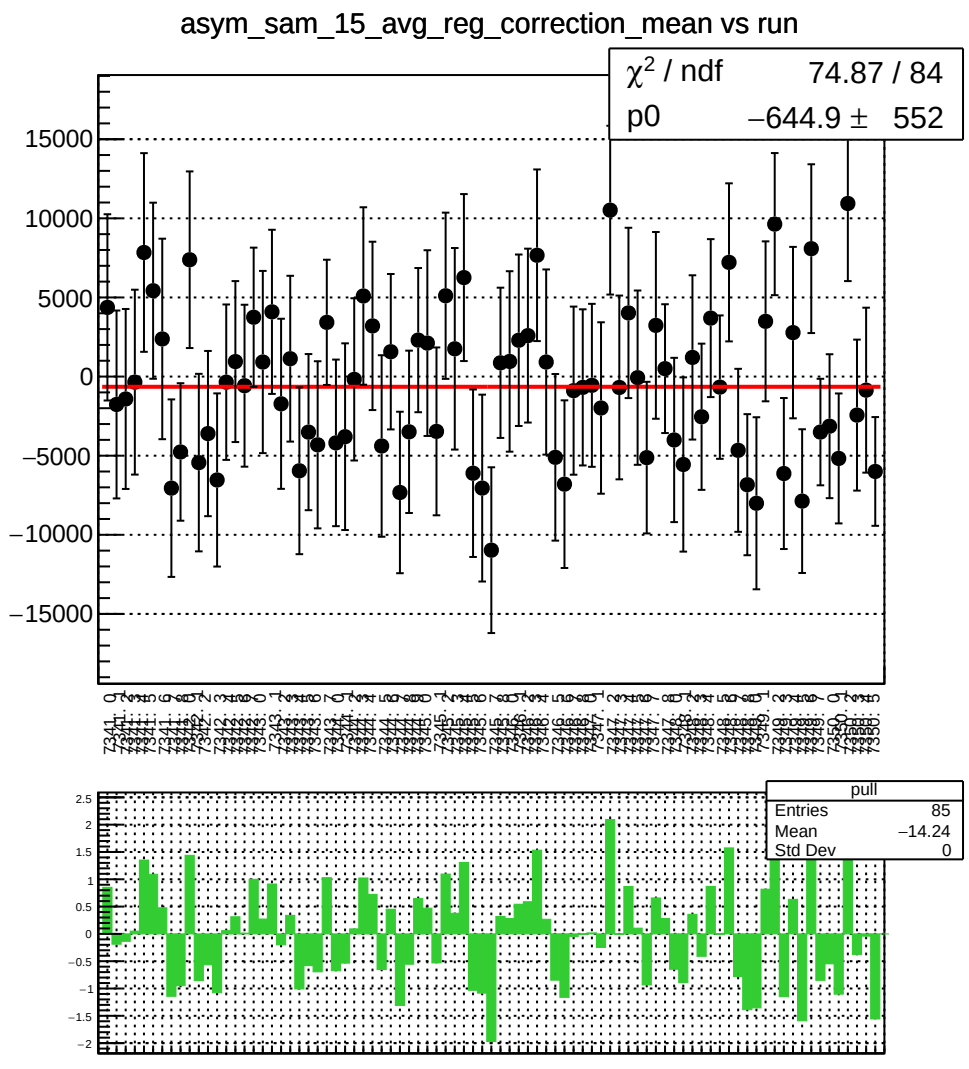

pull1D
Entries 85
Mean −0.129
Std Dev 1.043

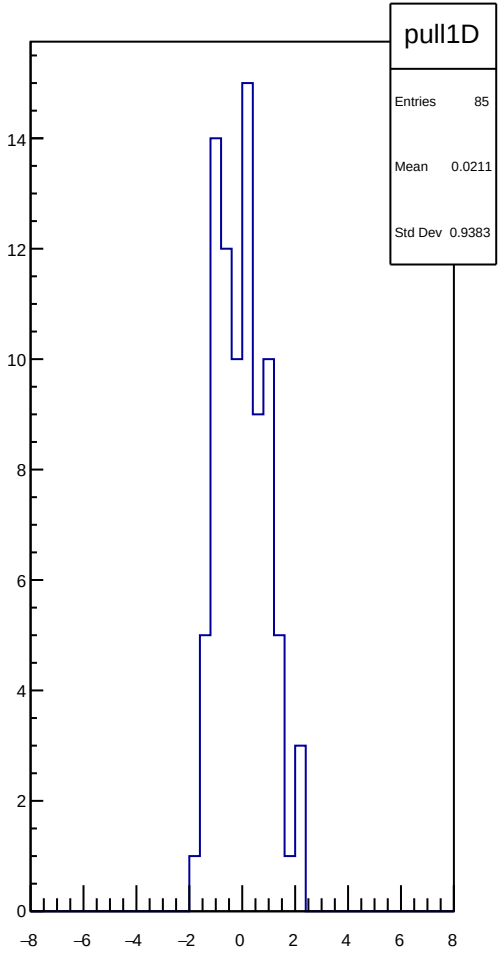

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.179e+05 / 84
p0 4.998e−12 ± 4.769e−15
25
20
15
10
5

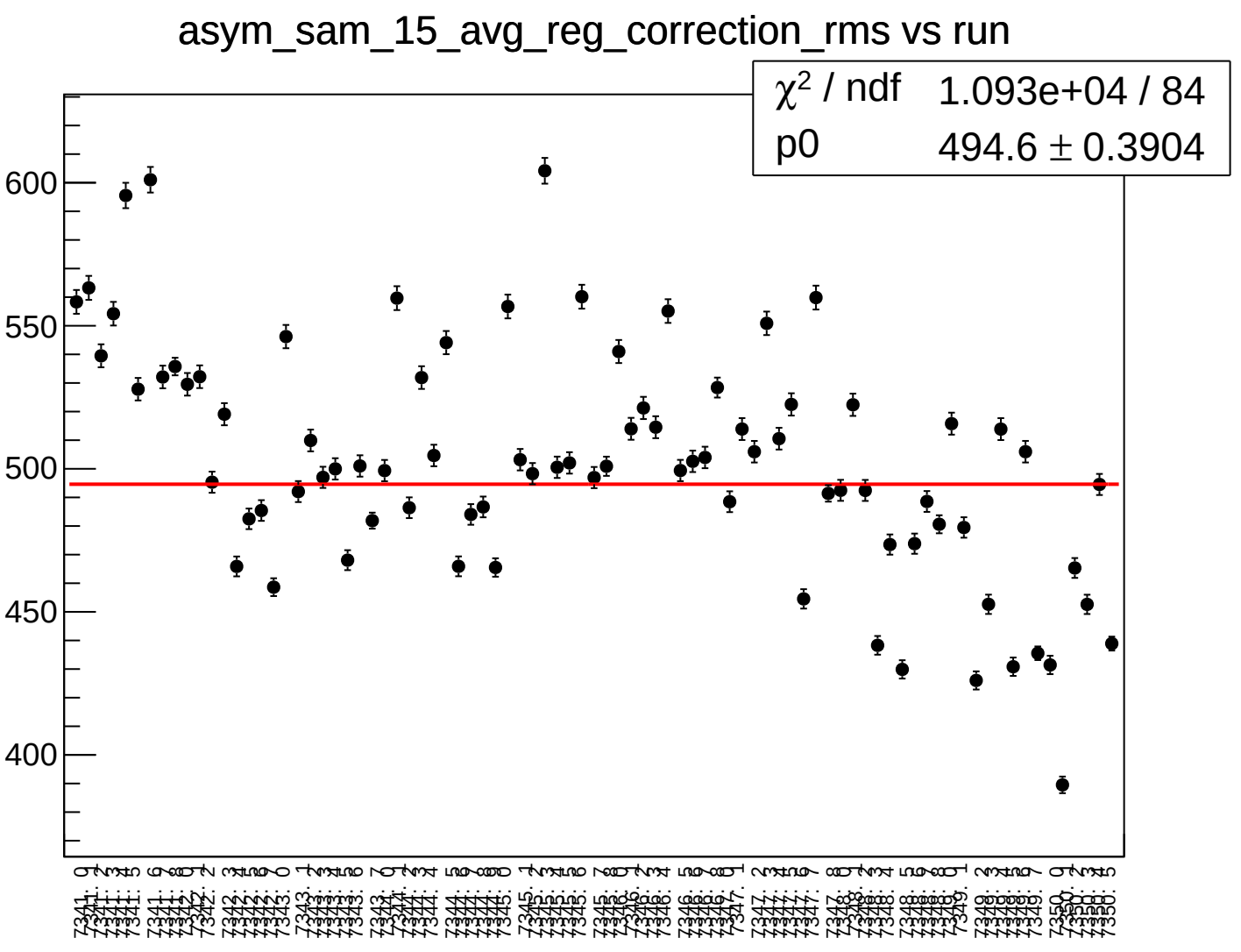

reg_asym_sam_15_avg_mean vs run
χ² / ndf 77.73 / 84
p0 37.38 ± 94.99
pull
Entries 85
Mean 244.2
Std Dev 0

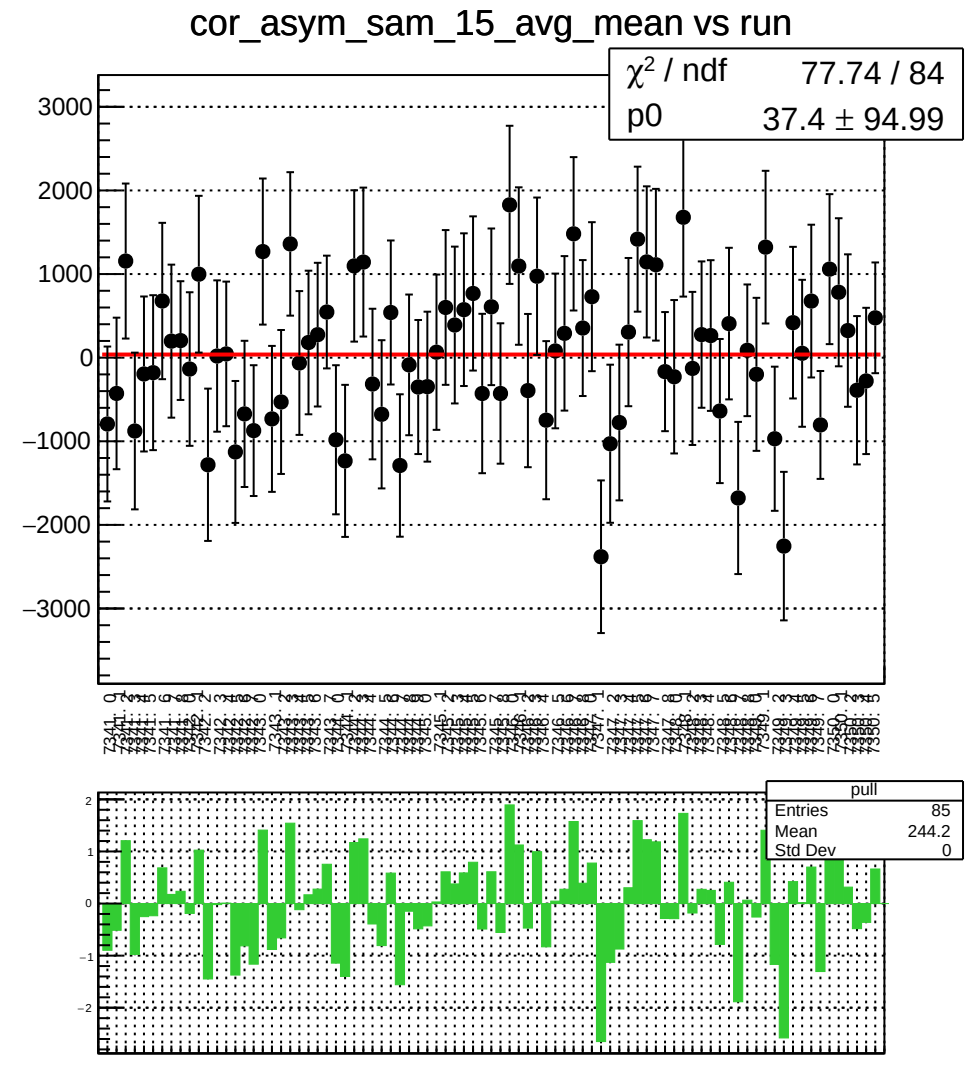

pull1D
Entries 85
Mean 0.007394
Std Dev 0.9563

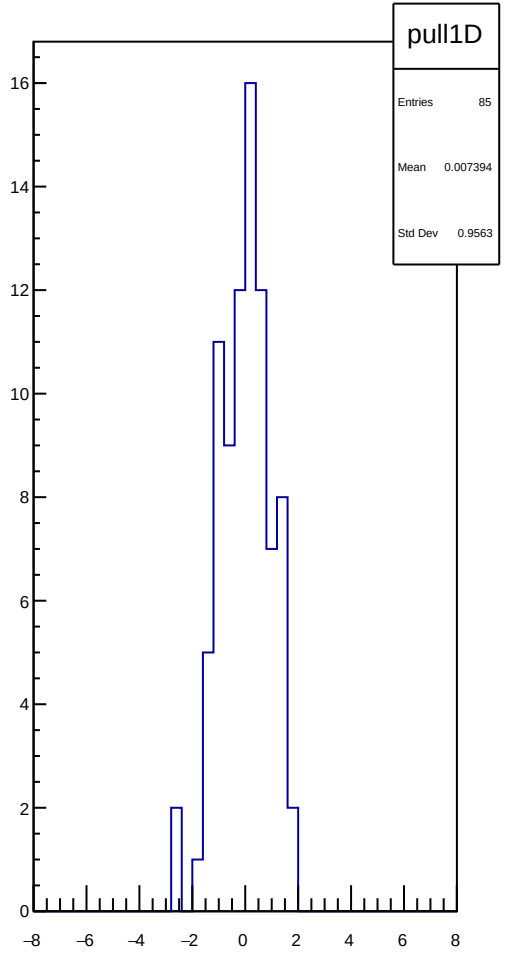

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1555 / 84
p0 85.36 ± 0.06717
92
90
88
86
84
82
80

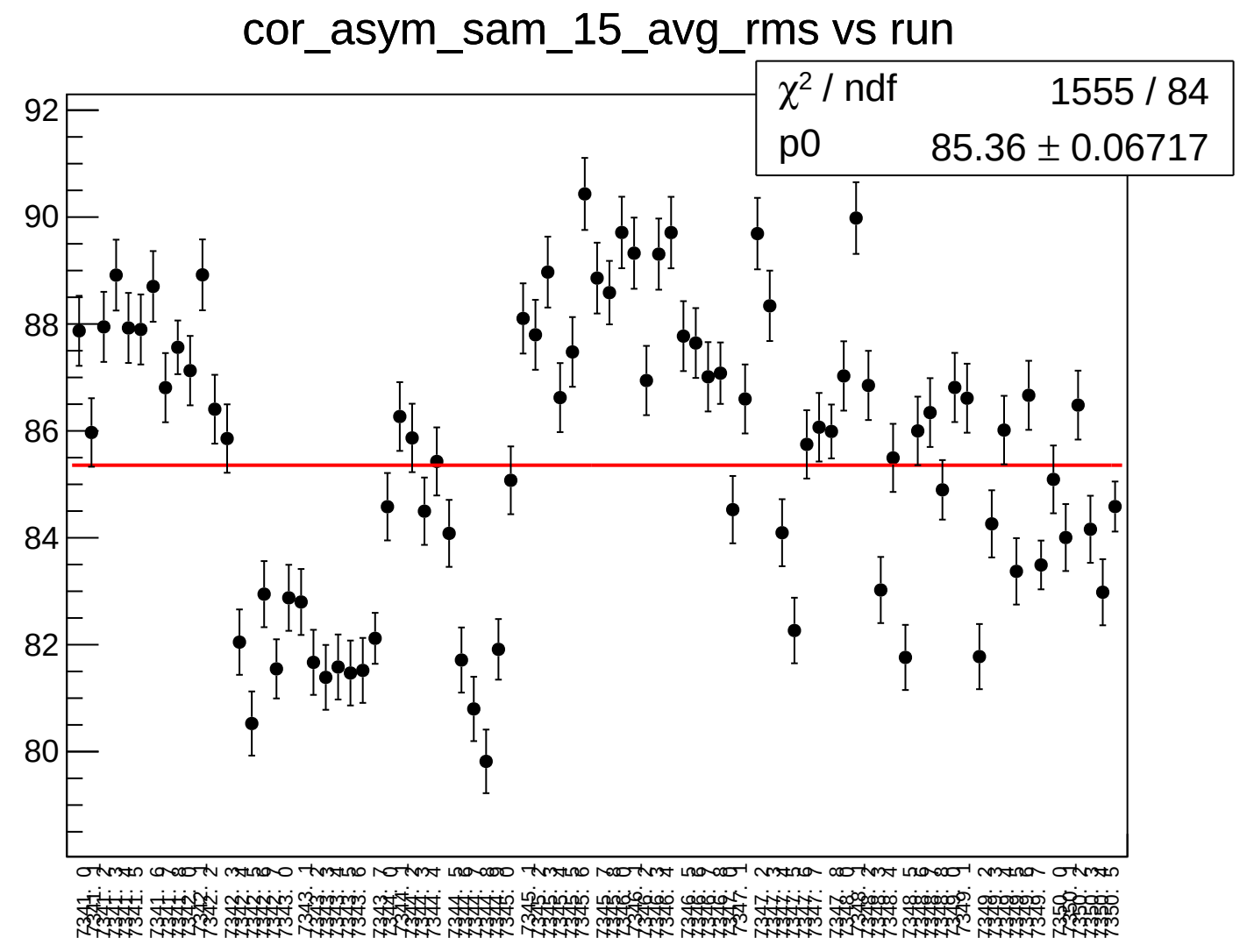

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 74.87 / 84
p0 −644.9 ± 552
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −14.24
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

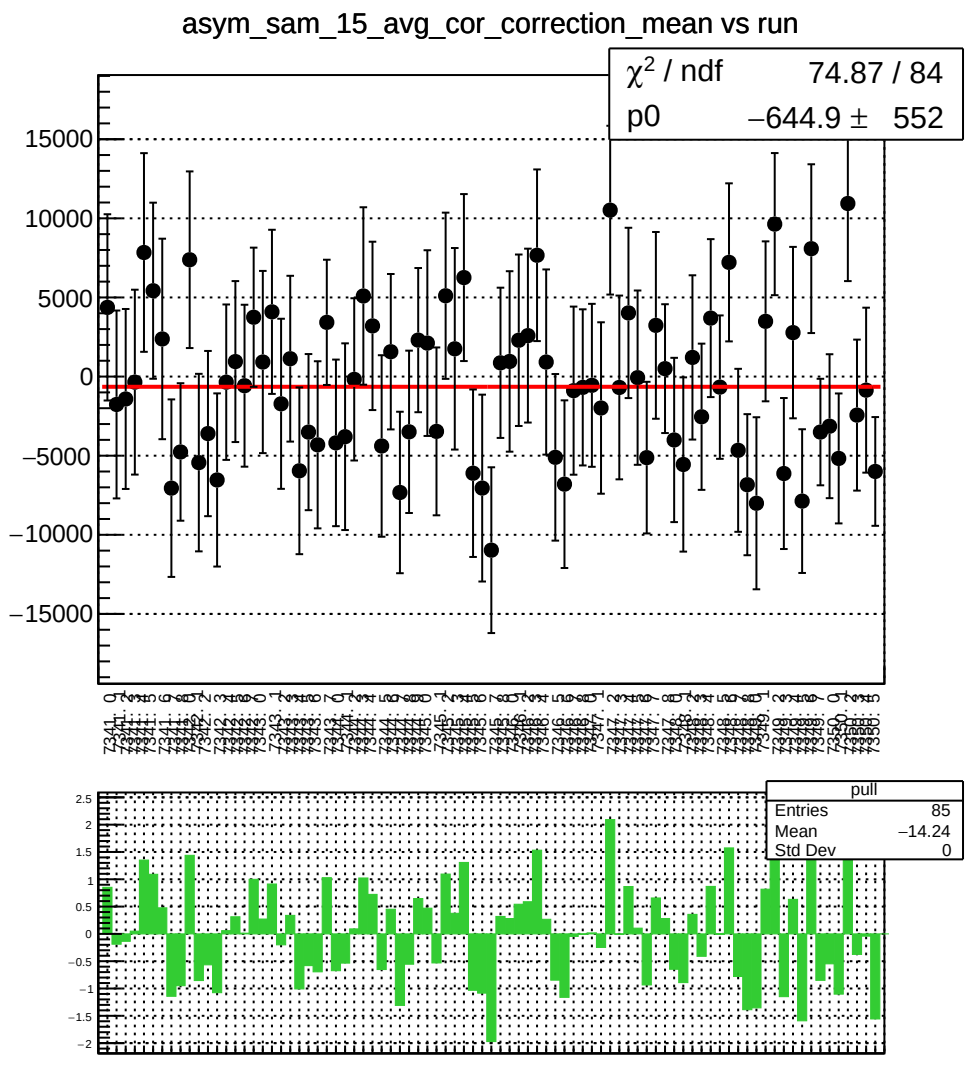

pull1D
Entries 85
Mean 0.0211
Std Dev 0.9383
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

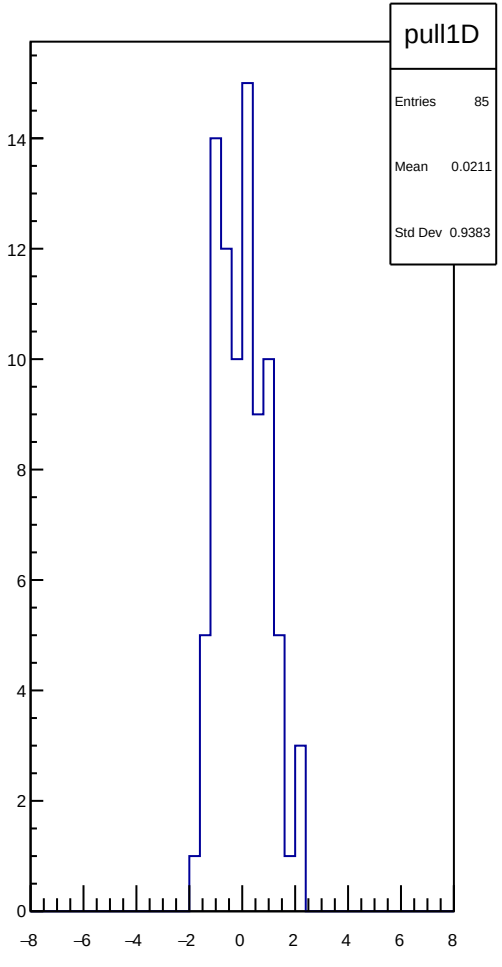

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.093e+04 / 84
p0 494.6 ± 0.3904
600
550
500
450
400

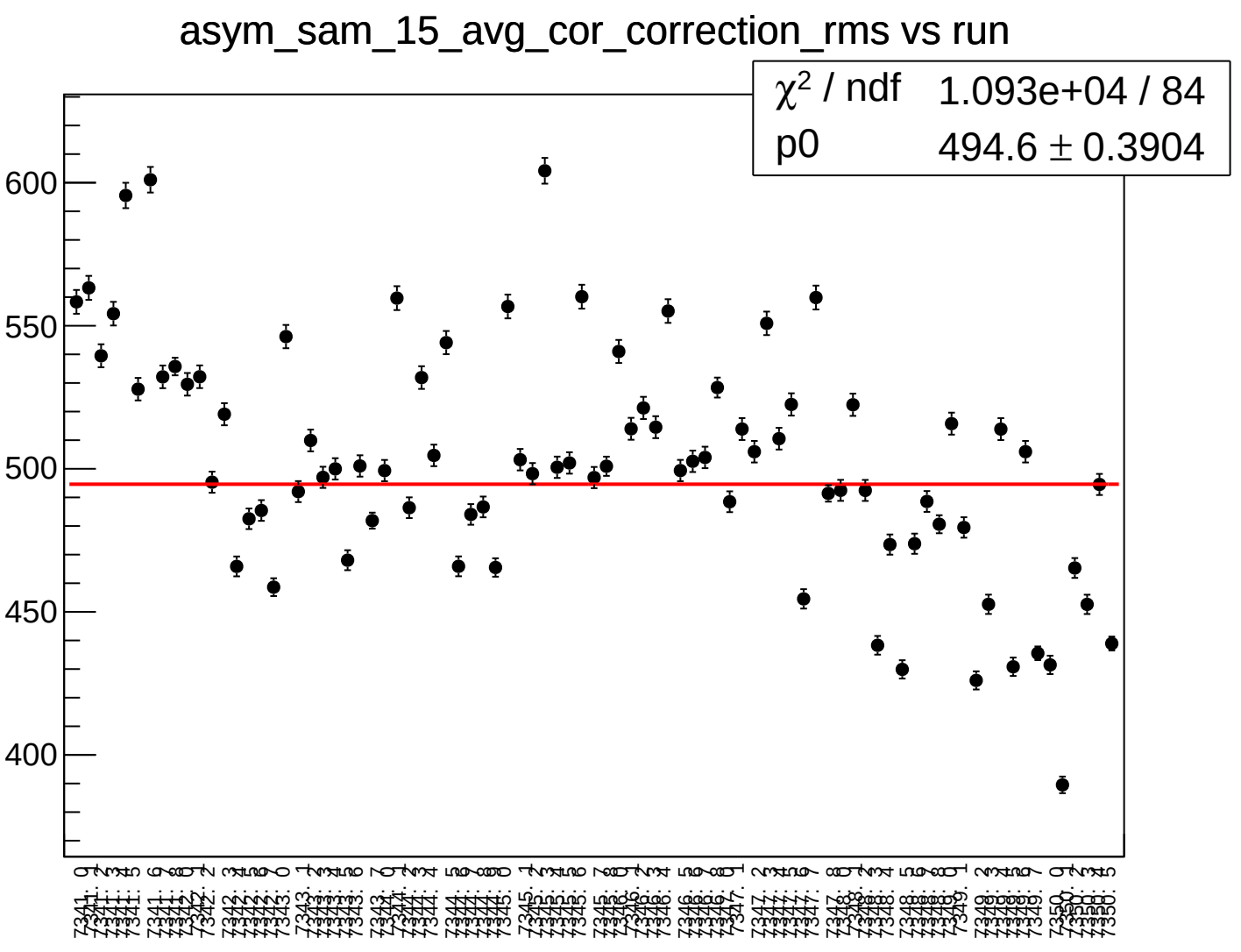

cor_asym_sam_15_avg_mean vs run
χ² / ndf 77.74 / 84
p0 37.4 ± 94.99
pull
Entries 85
Mean 244.2
Std Dev 0

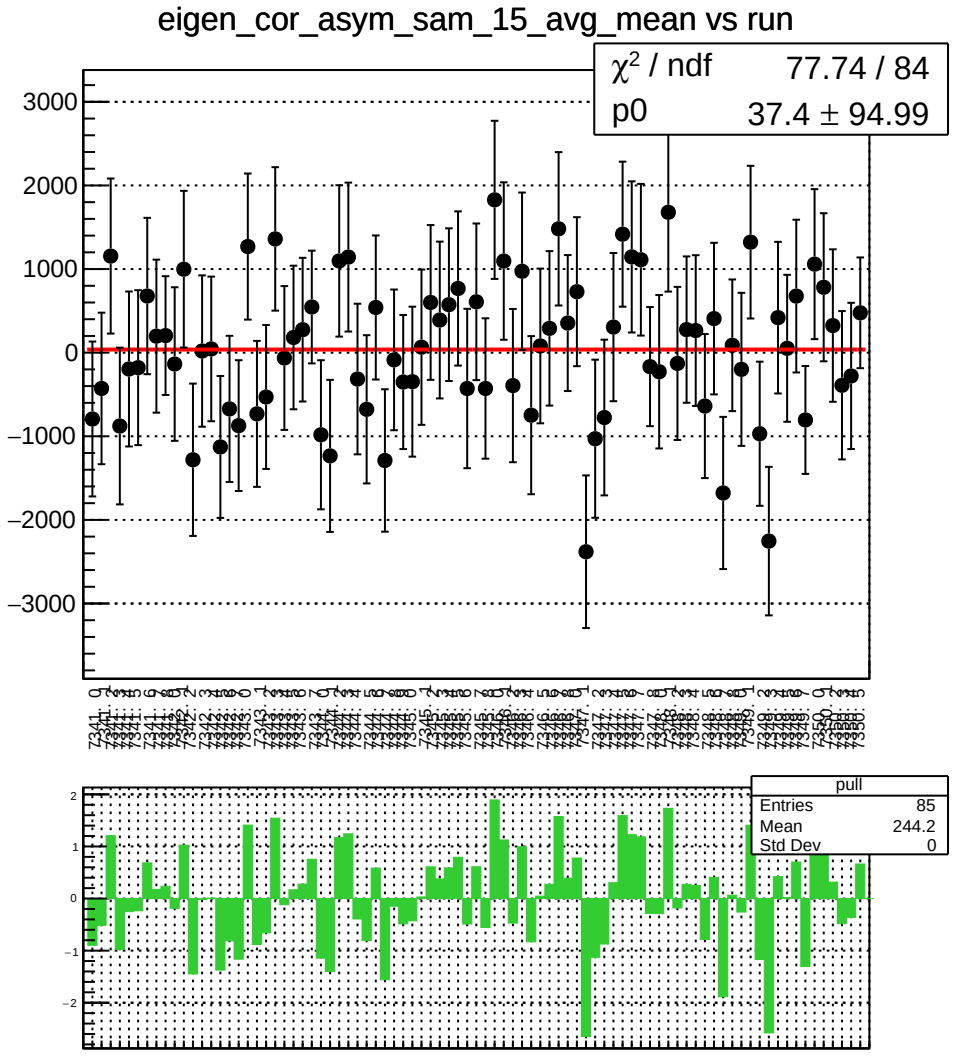

pull1D
Entries 85
Mean 0.007394
Std Dev 0.9563

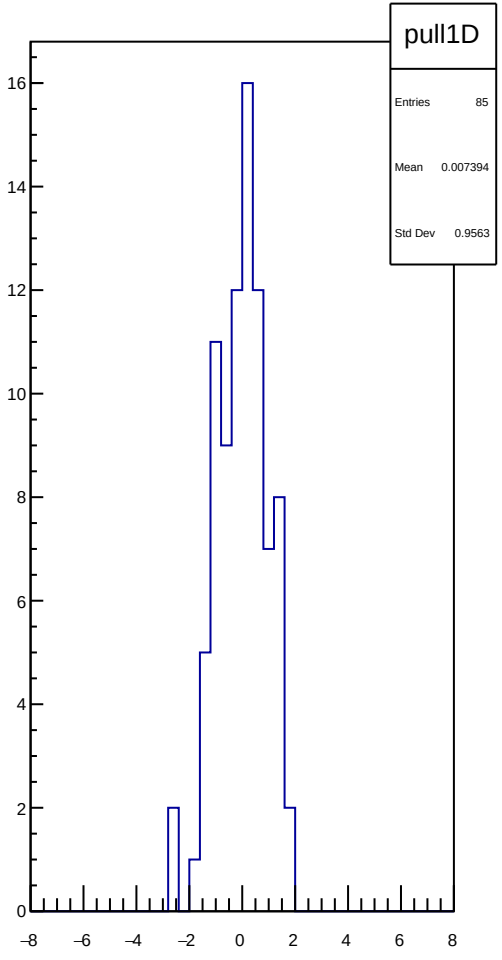

cor_asym_sam_15_avg_rms vs run
χ² / ndf 1555 / 84
p0 85.36 ± 0.06717
92
90
88
86
84
82
80

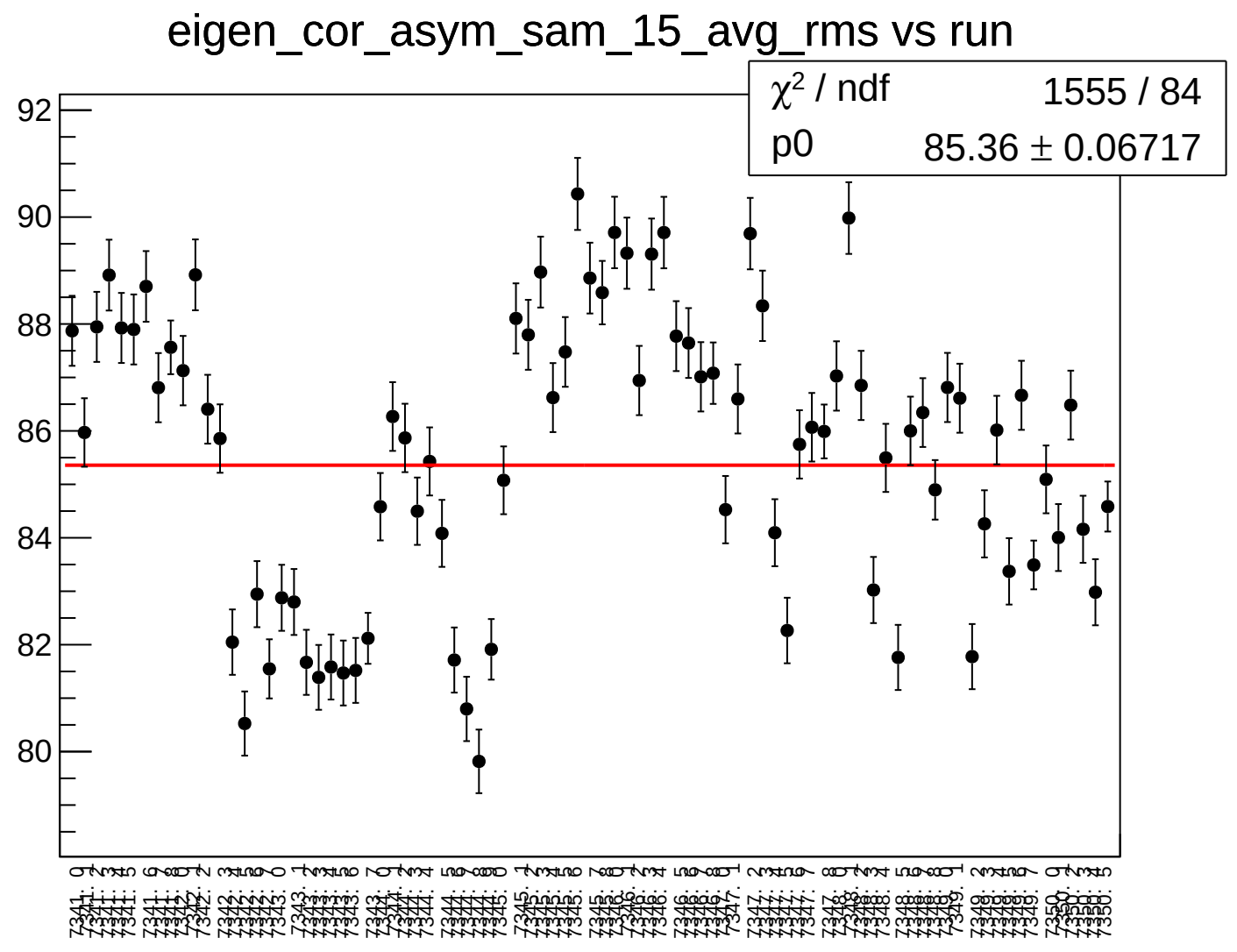

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 74.87 / 84
p0 −644.9 ± 552
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −14.24
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

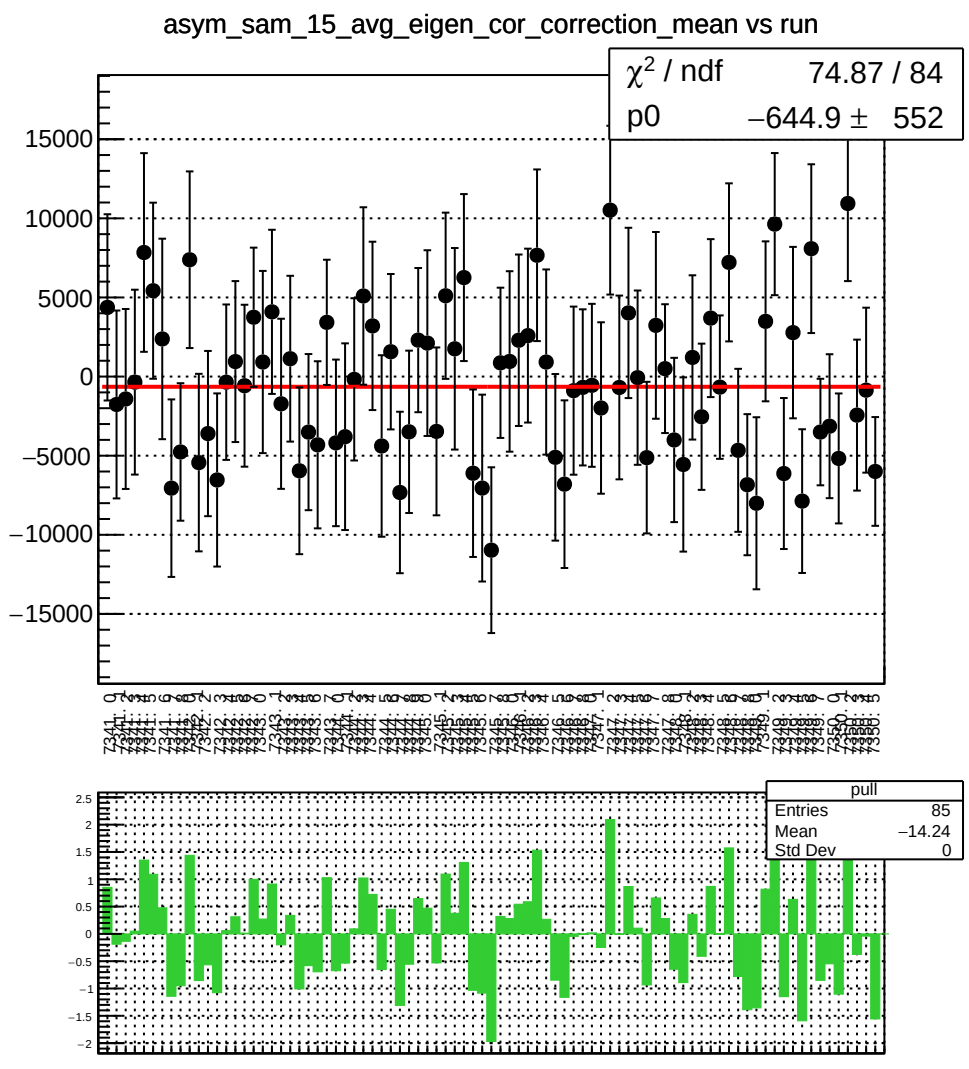

pull1D
Entries 85
Mean 0.0211
Std Dev 0.9383
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

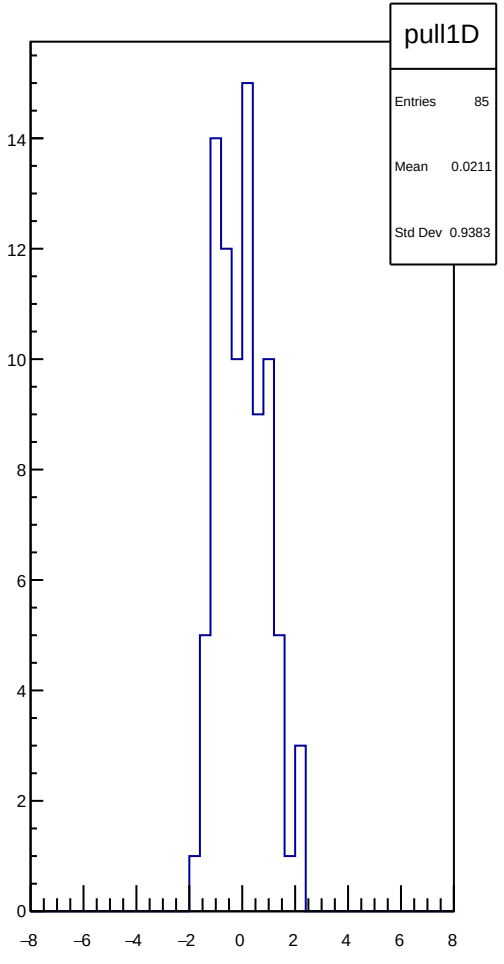

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.093e+04 / 84
p0 494.6 ± 0.3904
600
550
500
450
400

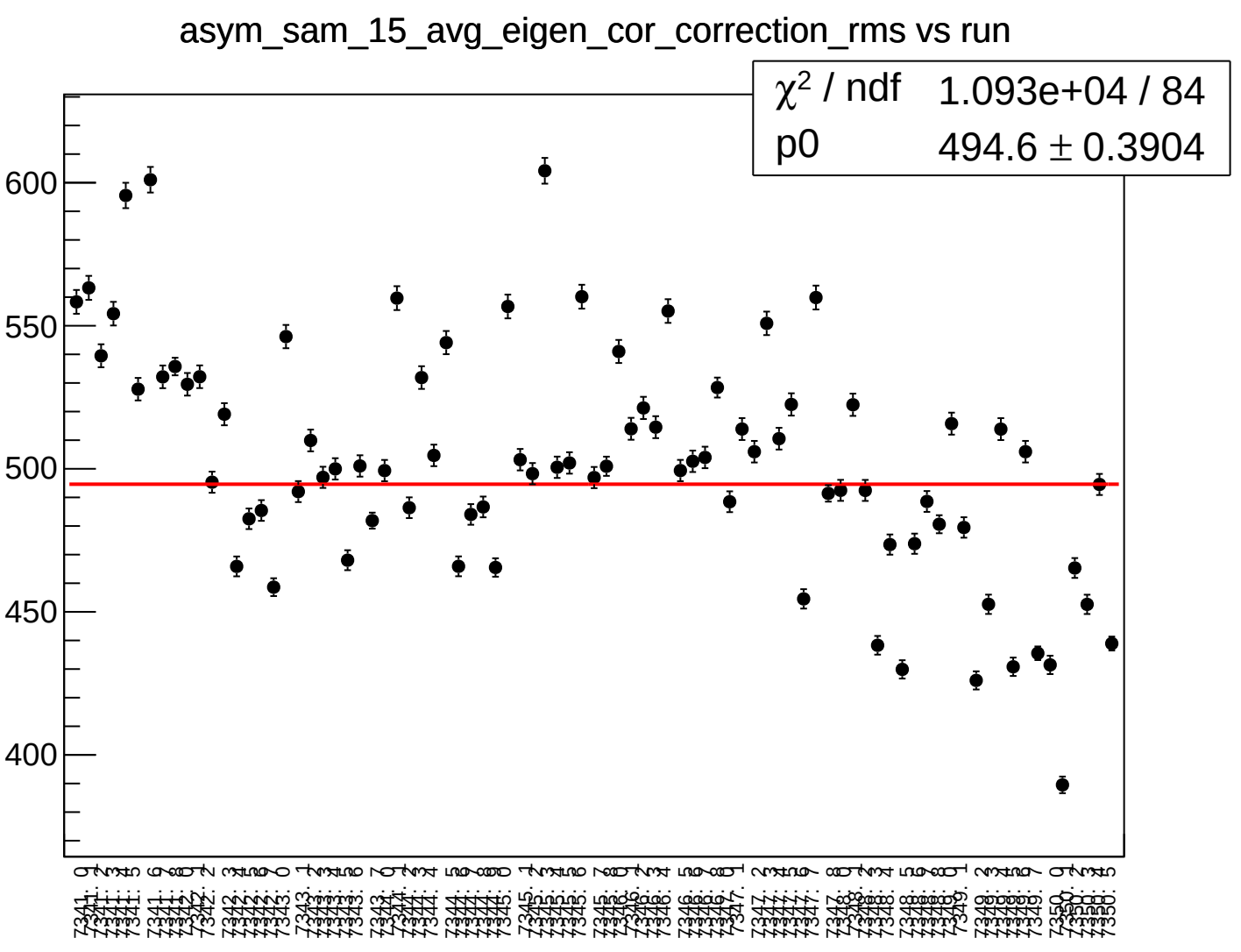

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 77.74 / 84
p0 37.4 ± 94.99
pull
Entries 85
Mean 244.2
Std Dev 0

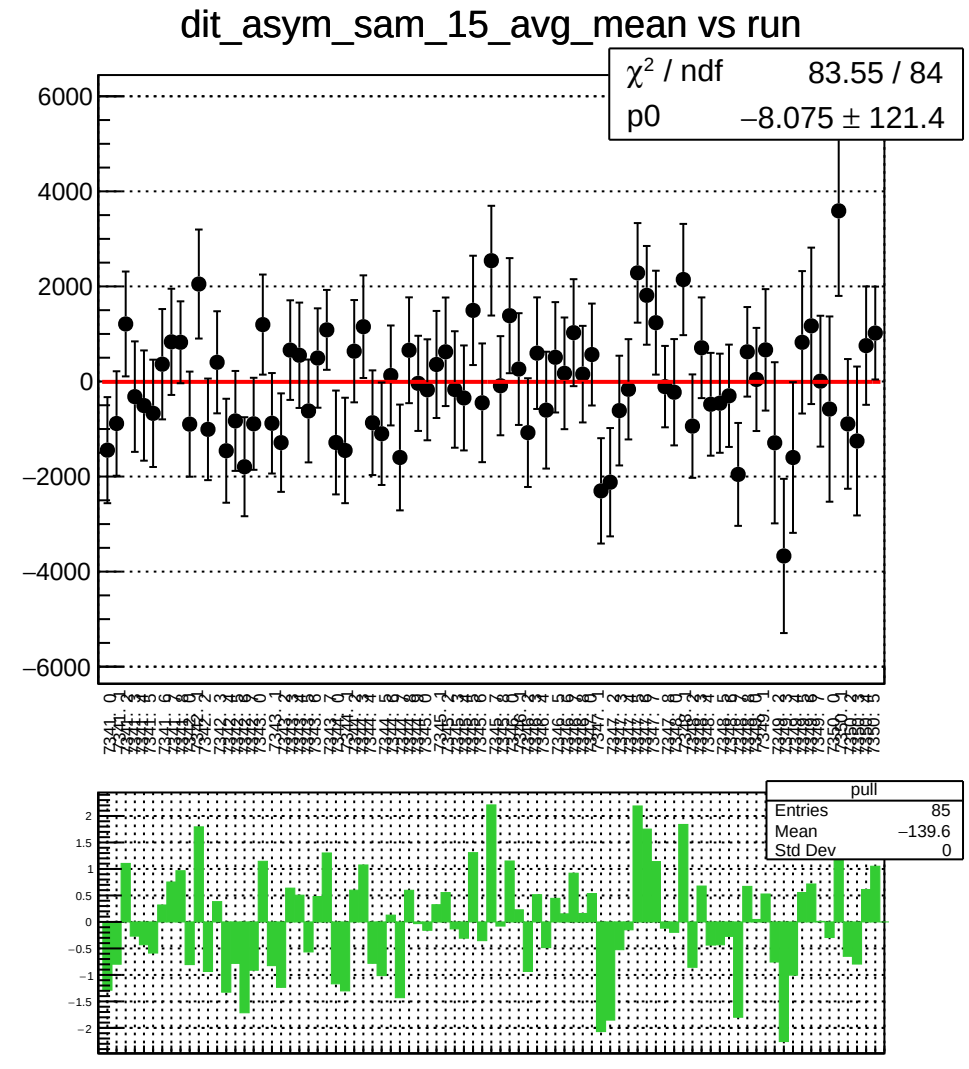

pull1D
Entries 85
Mean 0.007394
Std Dev 0.9563

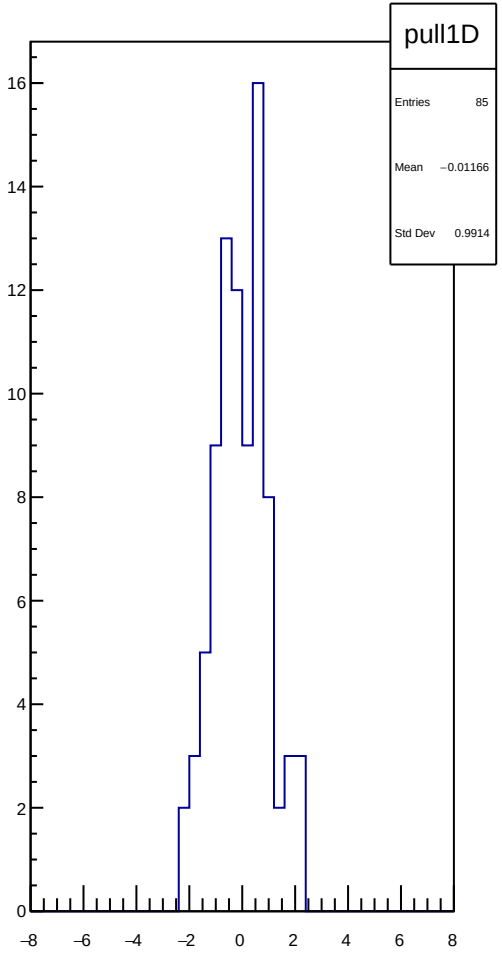

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1555 / 84
p0 85.36 ± 0.06717
92
90
88
86
84
82
80

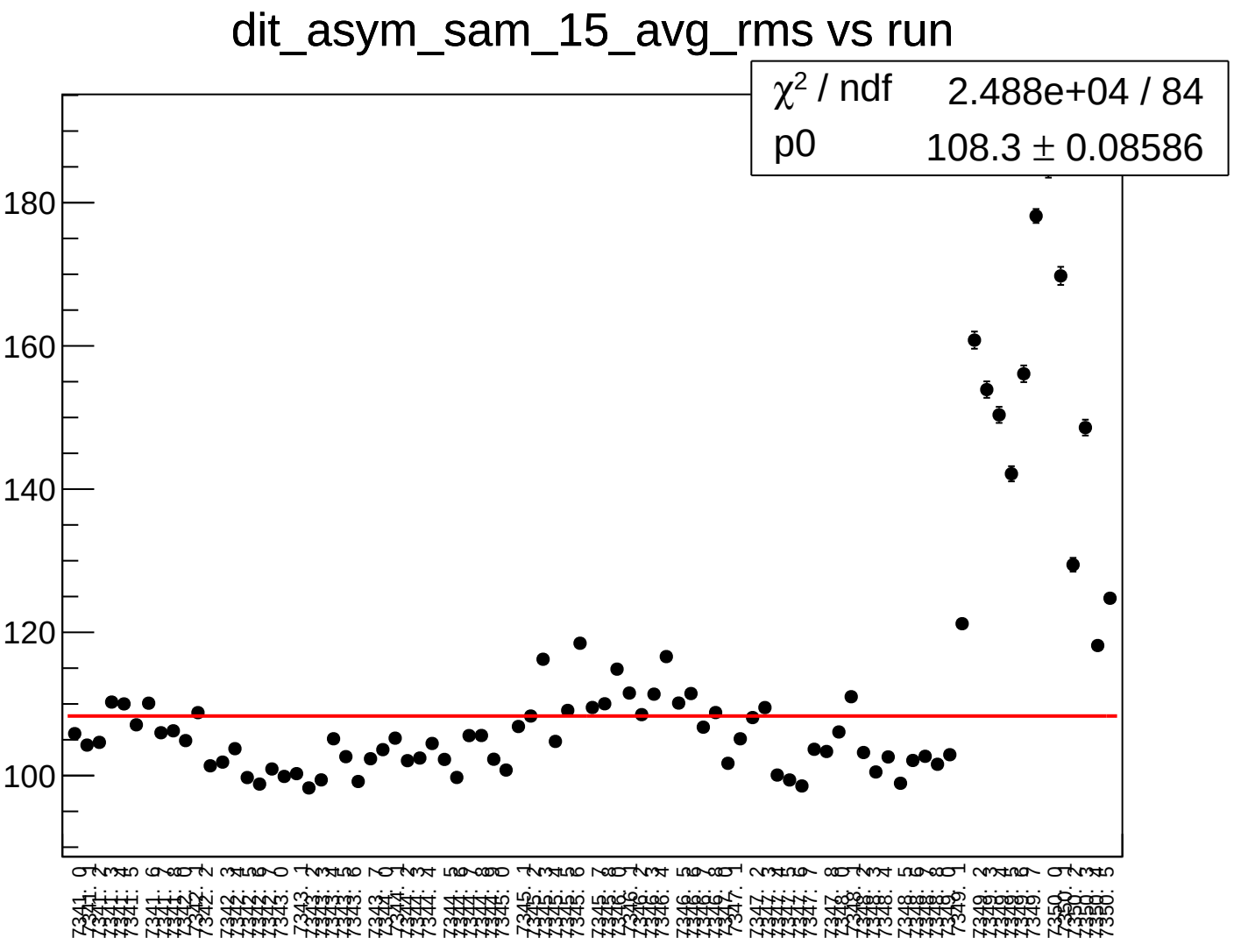

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.87 / 84
p0 −644.9 ± 552
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −14.24
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

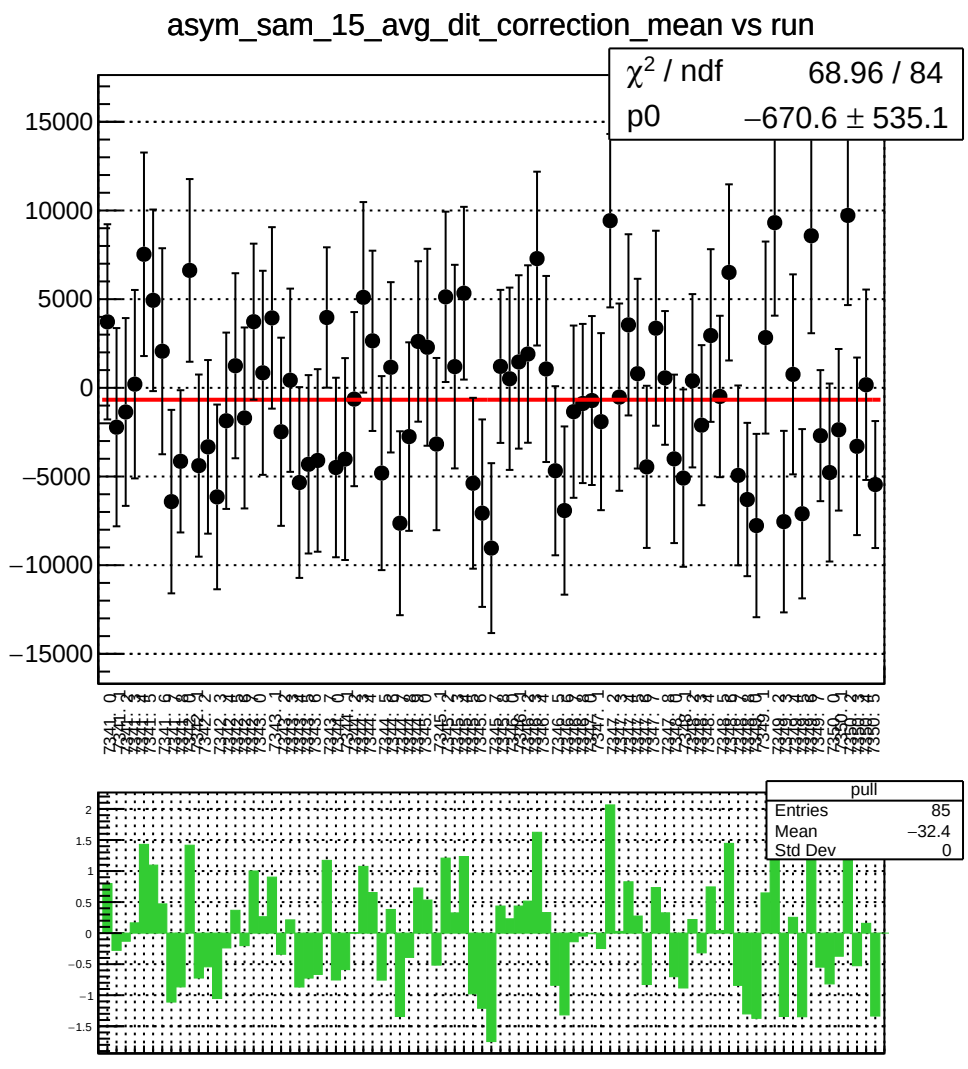

pull1D
Entries 85
Mean 0.0211
Std Dev 0.9383
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

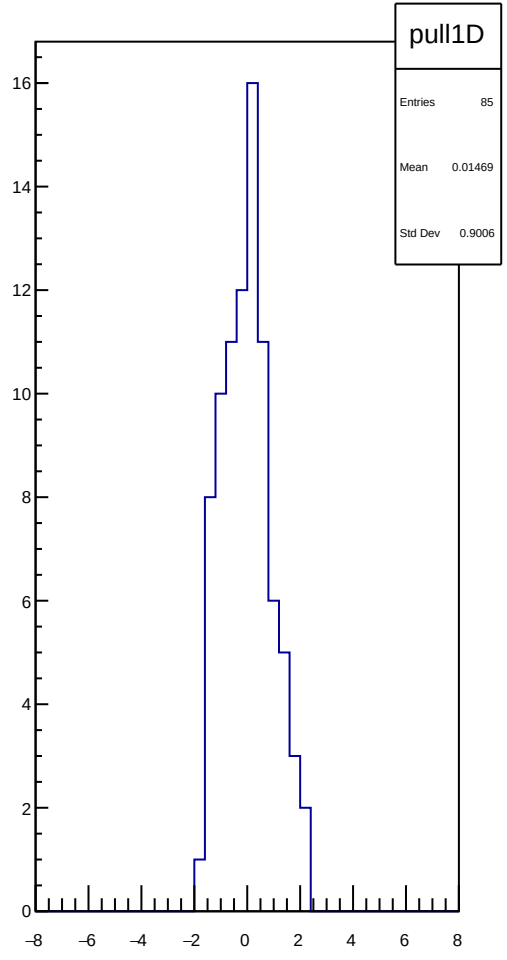

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.093e+04 / 84
p0 494.6 ± 0.3904
600
550
500
450
400

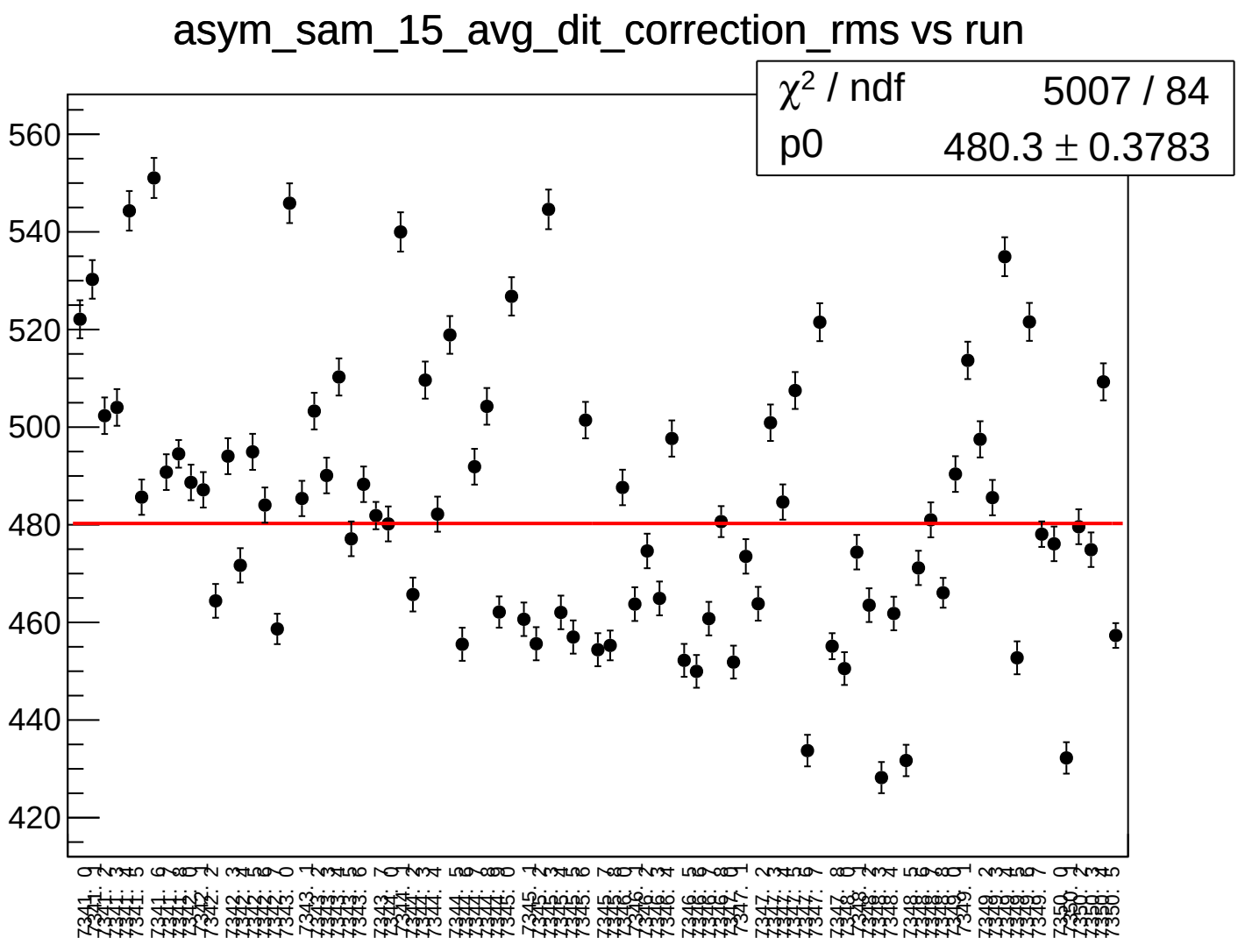

dit_asym_sam_15_avg_mean vs run
χ² / ndf 83.55 / 84
p0 −8.075 ± 121.4
pull
Entries 85
Mean −139.6
Std Dev 0

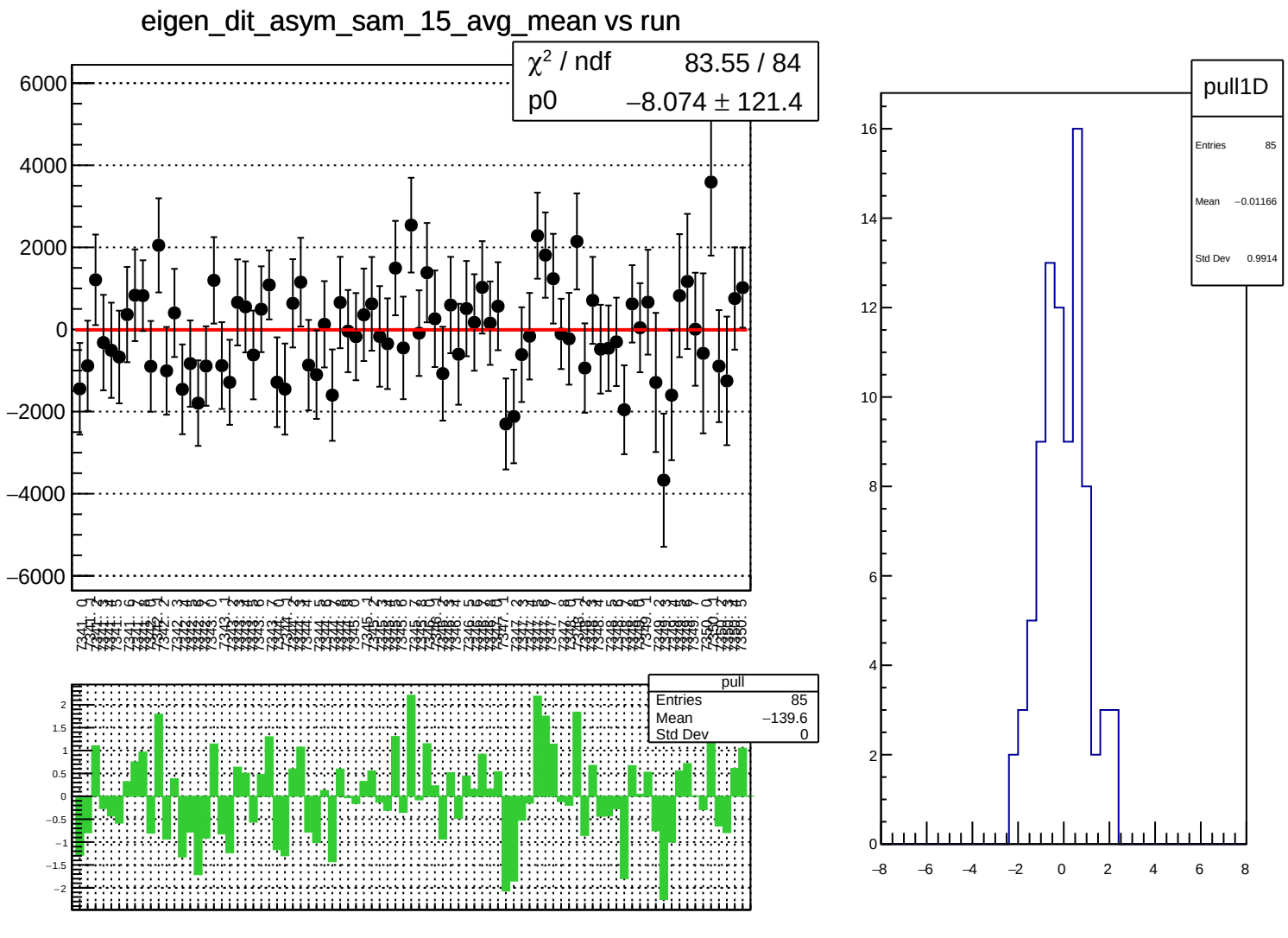

pull1D
Entries 85
Mean −0.01166
Std Dev 0.9914

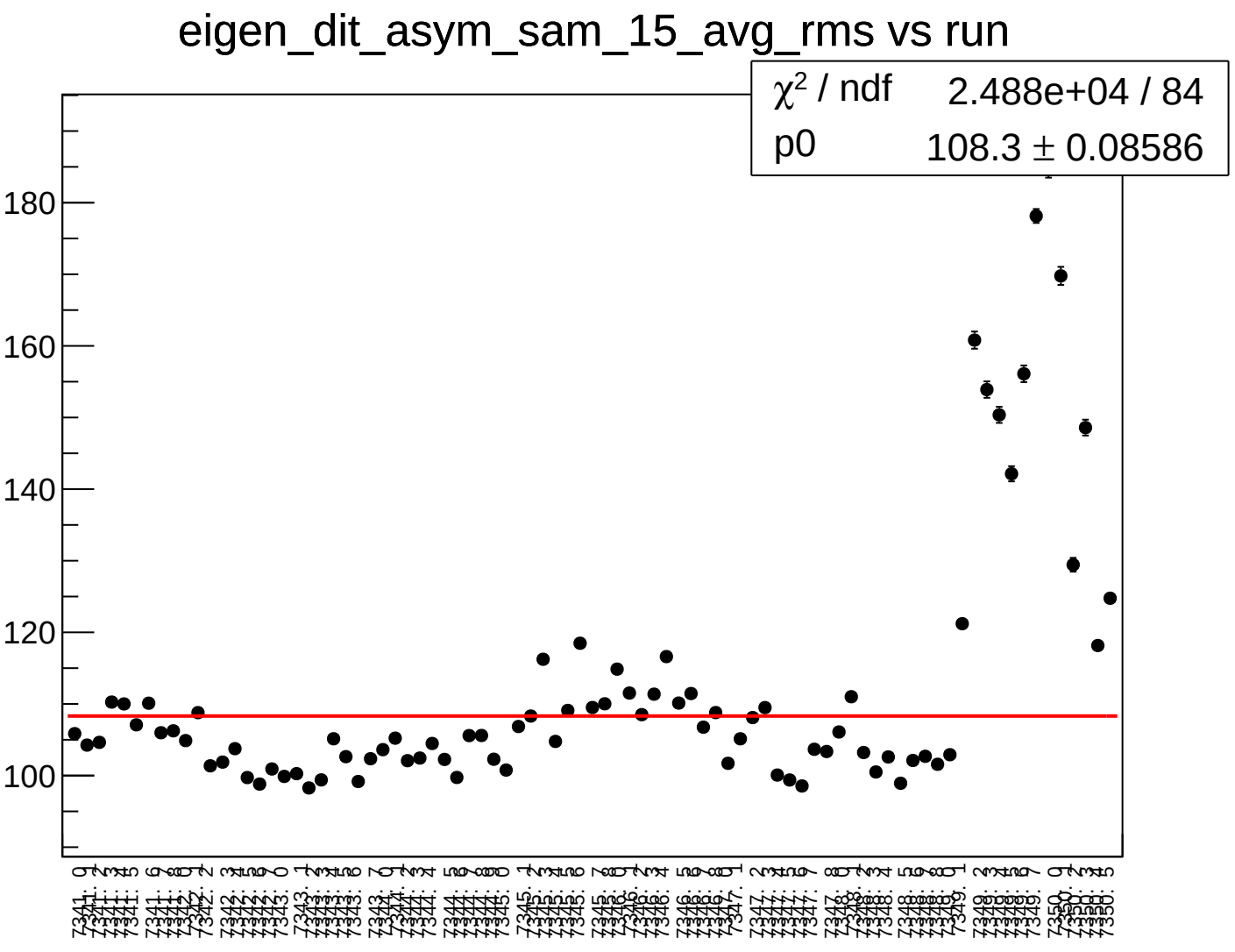

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2.488e+04 / 84
p0 108.3 ± 0.08586
180
160
140
120
100

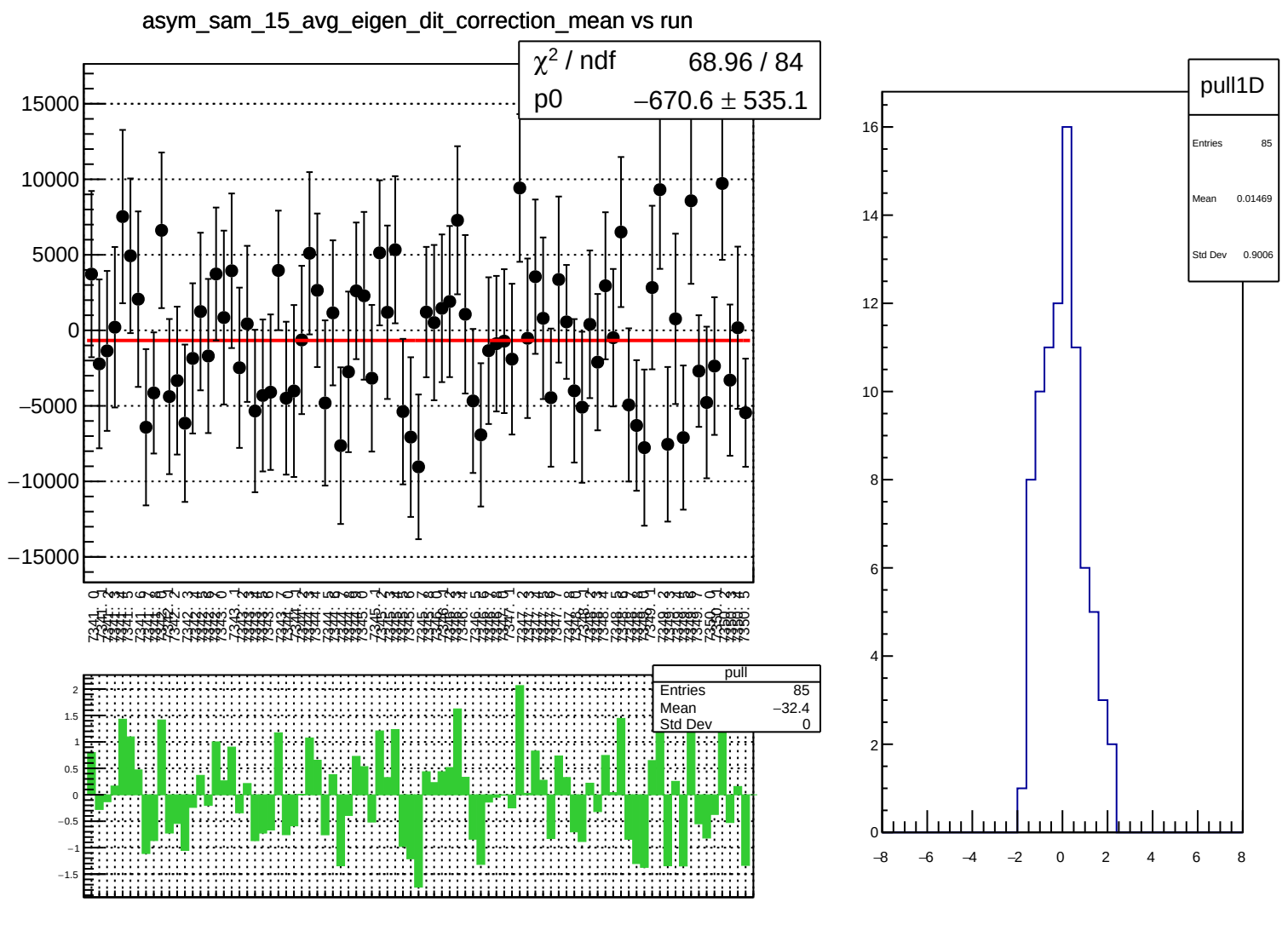

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 68.96 / 84
p0 −670.6 ± 535.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −32.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

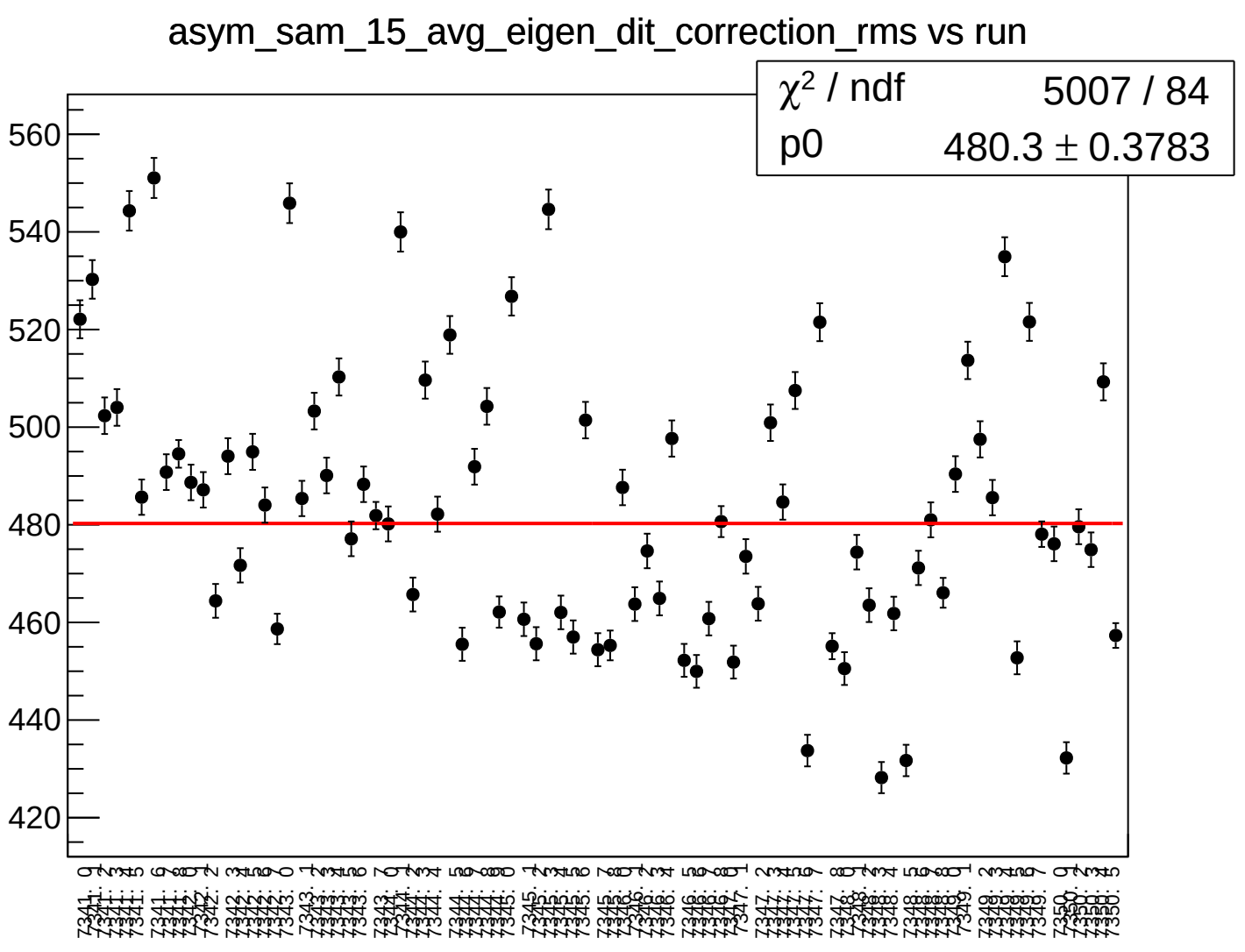

pull1D
Entries 85
Mean 0.01469
Std Dev 0.9006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

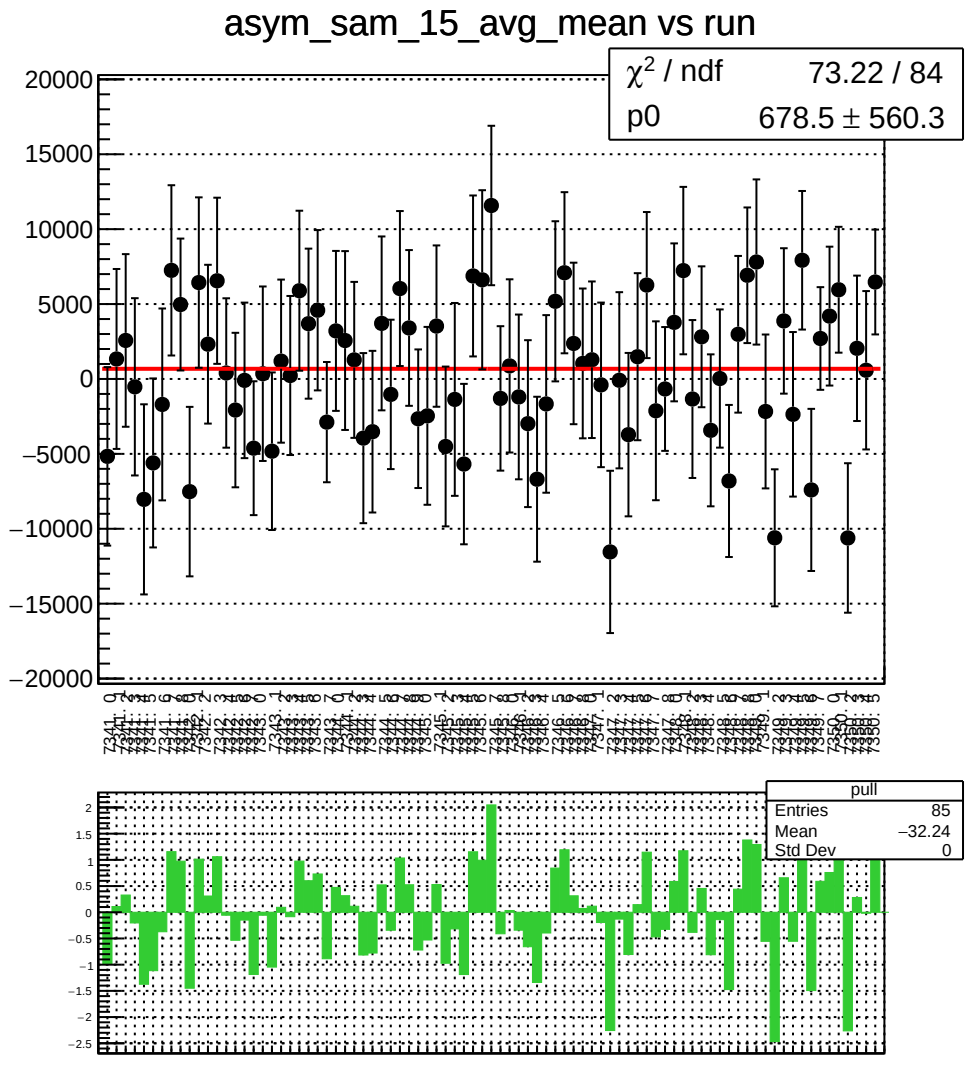

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 5007 / 84
p0 480.3 ± 0.3783
560
540
520
500
480
460
440
420

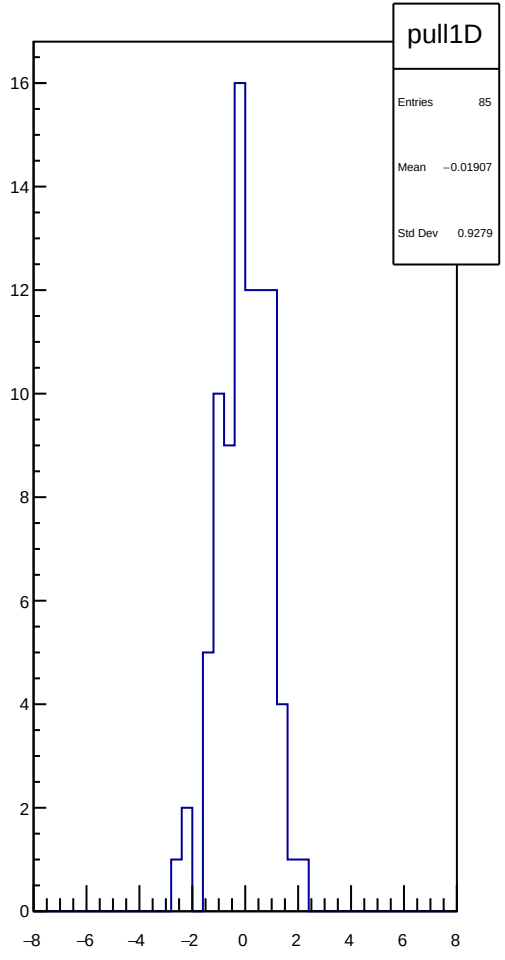

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 83.55 / 84
p0 −8.074 ± 121.4
pull
Entries 85
Mean −139.6
Std Dev 0
pull1D
Entries 85
Mean −0.01166
Std Dev 0.9914

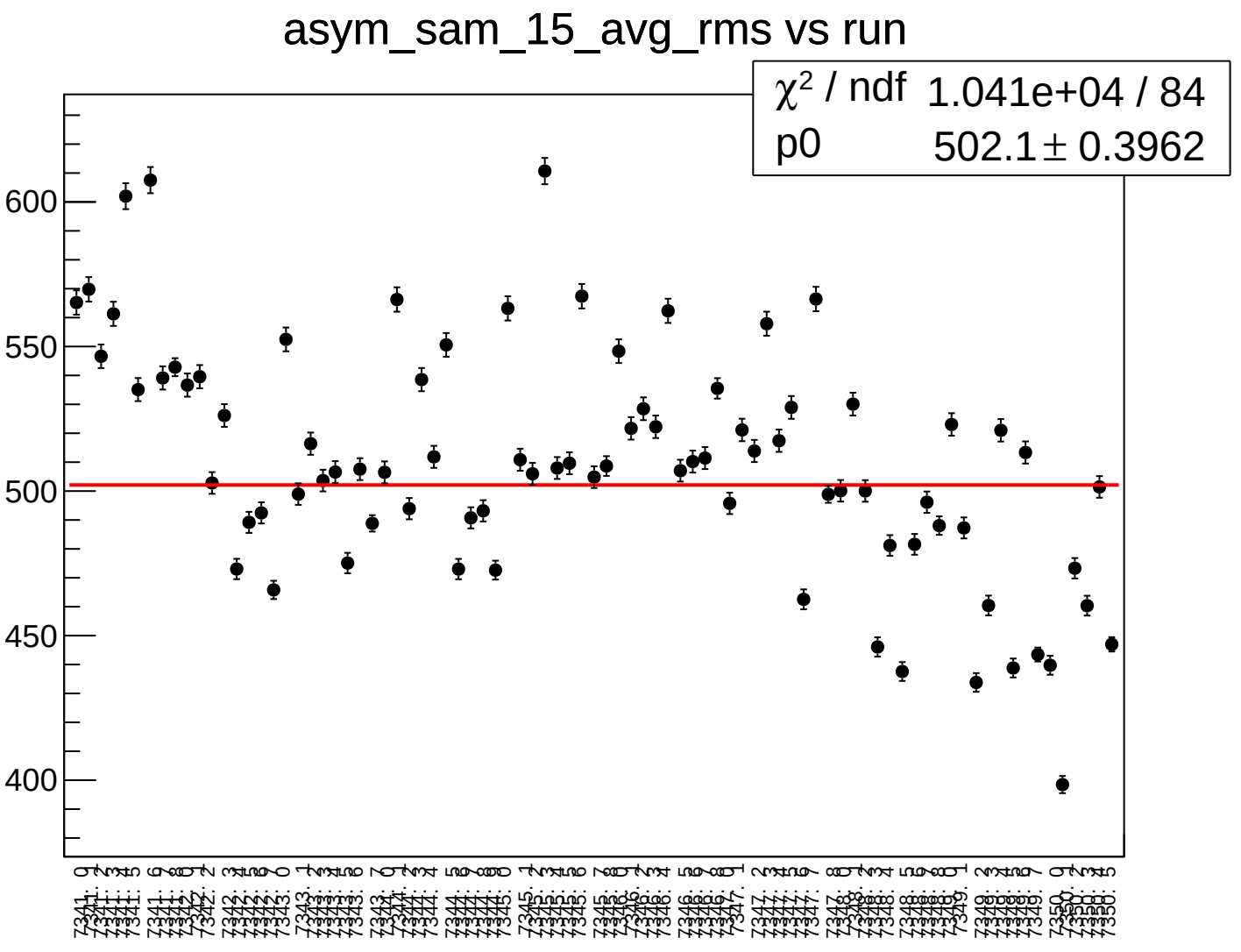

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.488e+04 / 84
p0 108.3 ± 0.08586
180
160
140
120
100

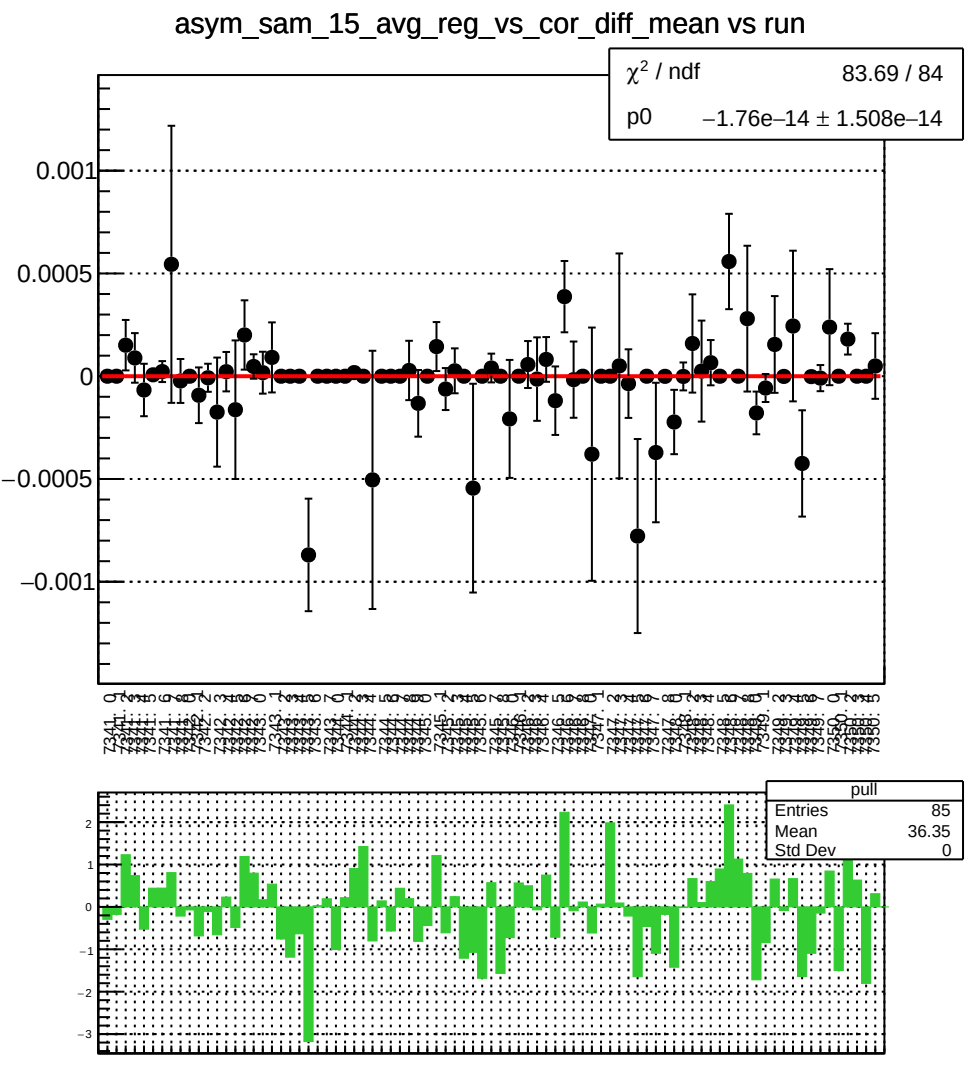

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.96 / 84
p0 −670.6 ± 535.1
pull
Entries 85
Mean −32.4
Std Dev 0
pull1D
Entries 85
Mean 0.01469
Std Dev 0.9006

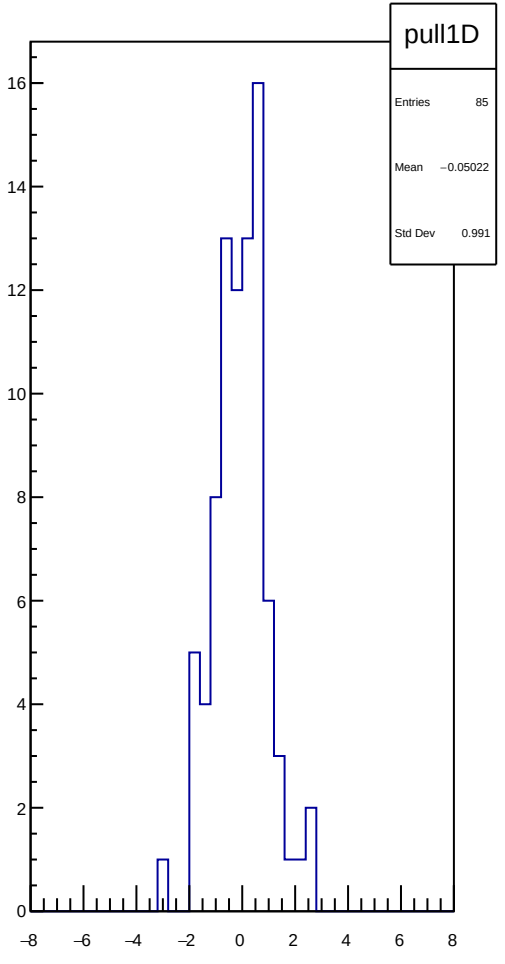

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 5007 / 84
p0 480.3 ± 0.3783
560
540
520
500
480
460
440
420

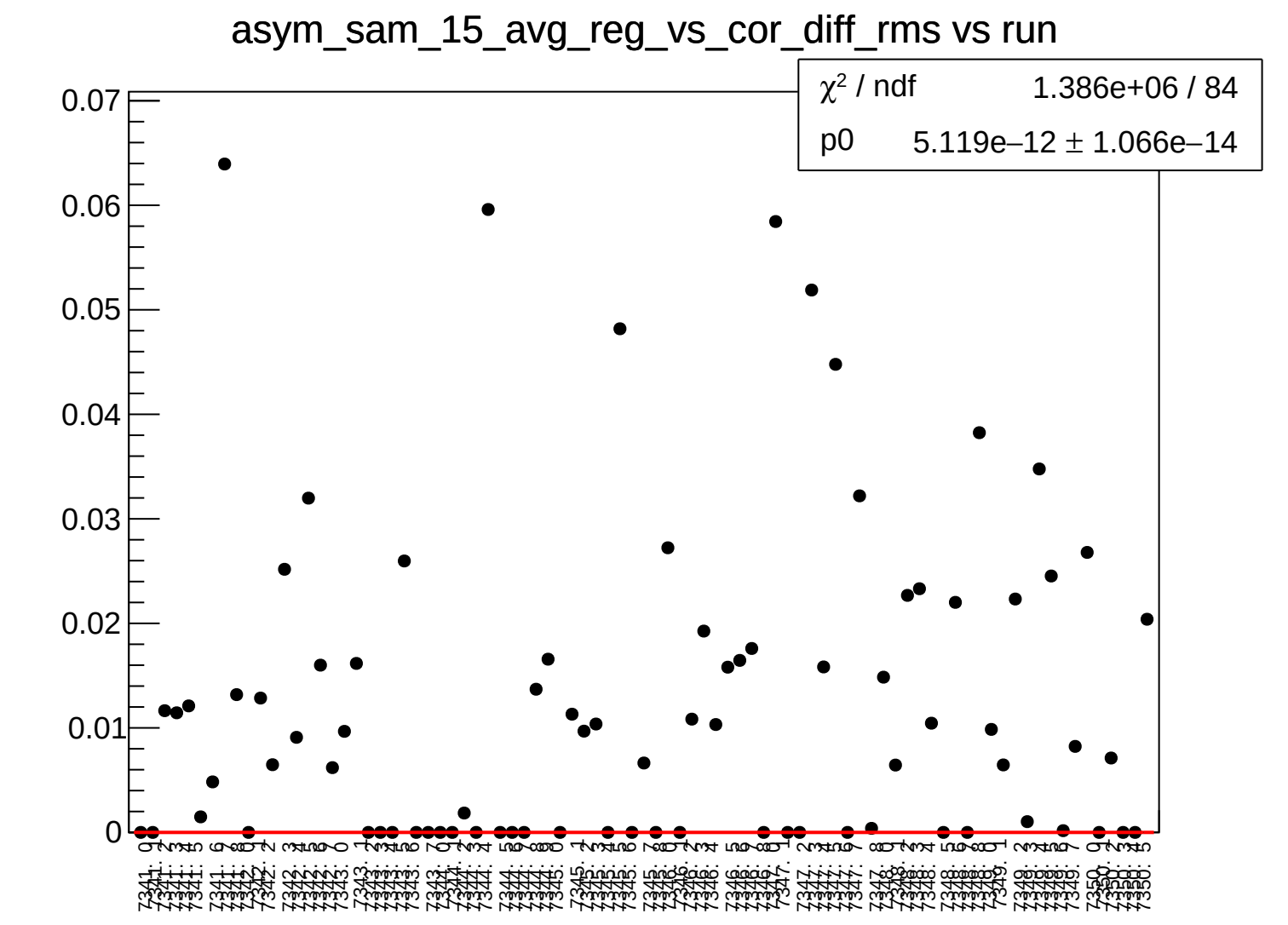

asym_sam_15_avg_mean vs run
χ² / ndf 73.22 / 84
p0 678.5 ± 560.3
pull
Entries 85
Mean −32.24
Std Dev 0

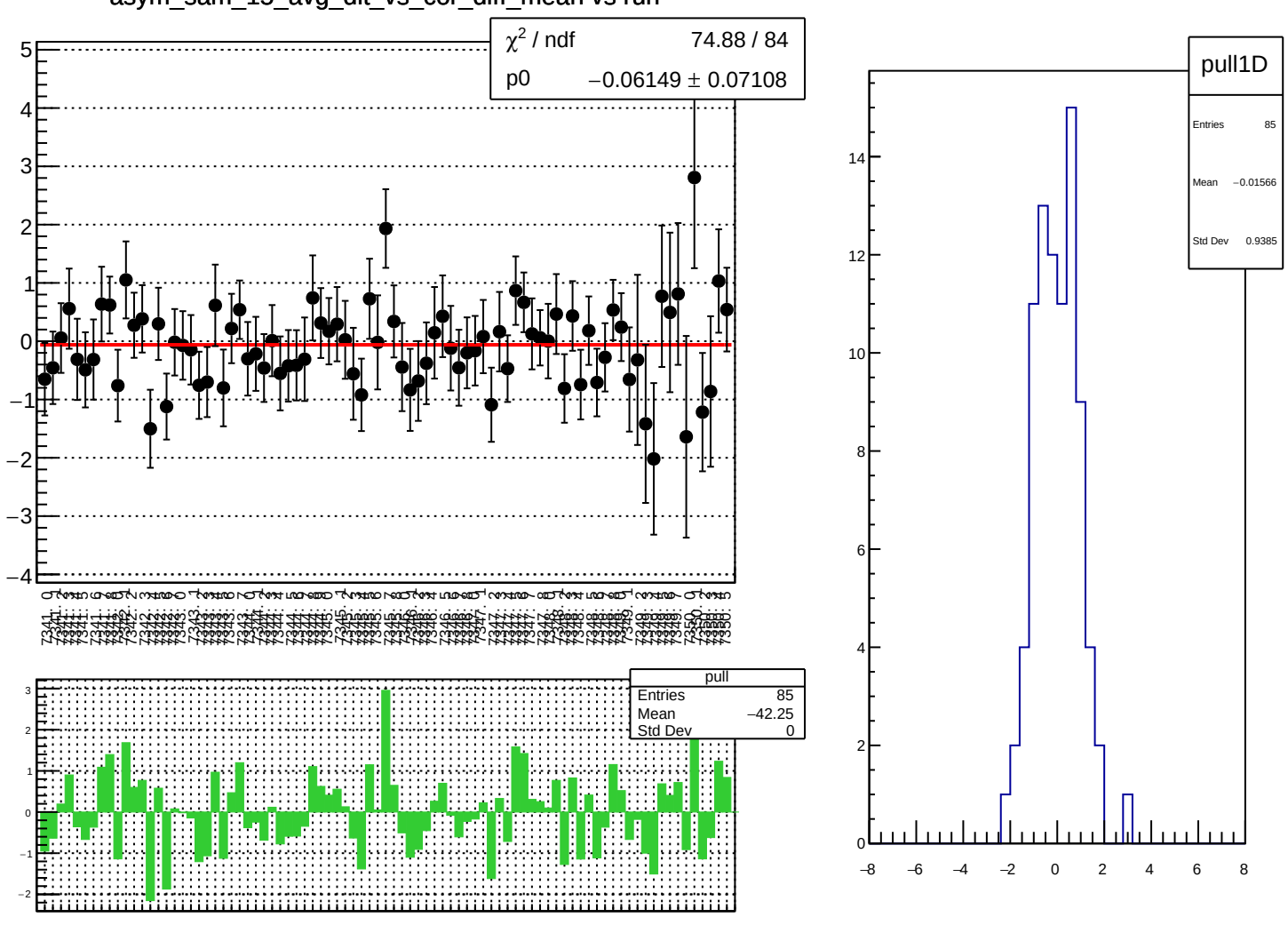

pull1D
Entries 85
Mean −0.01907
Std Dev 0.9279

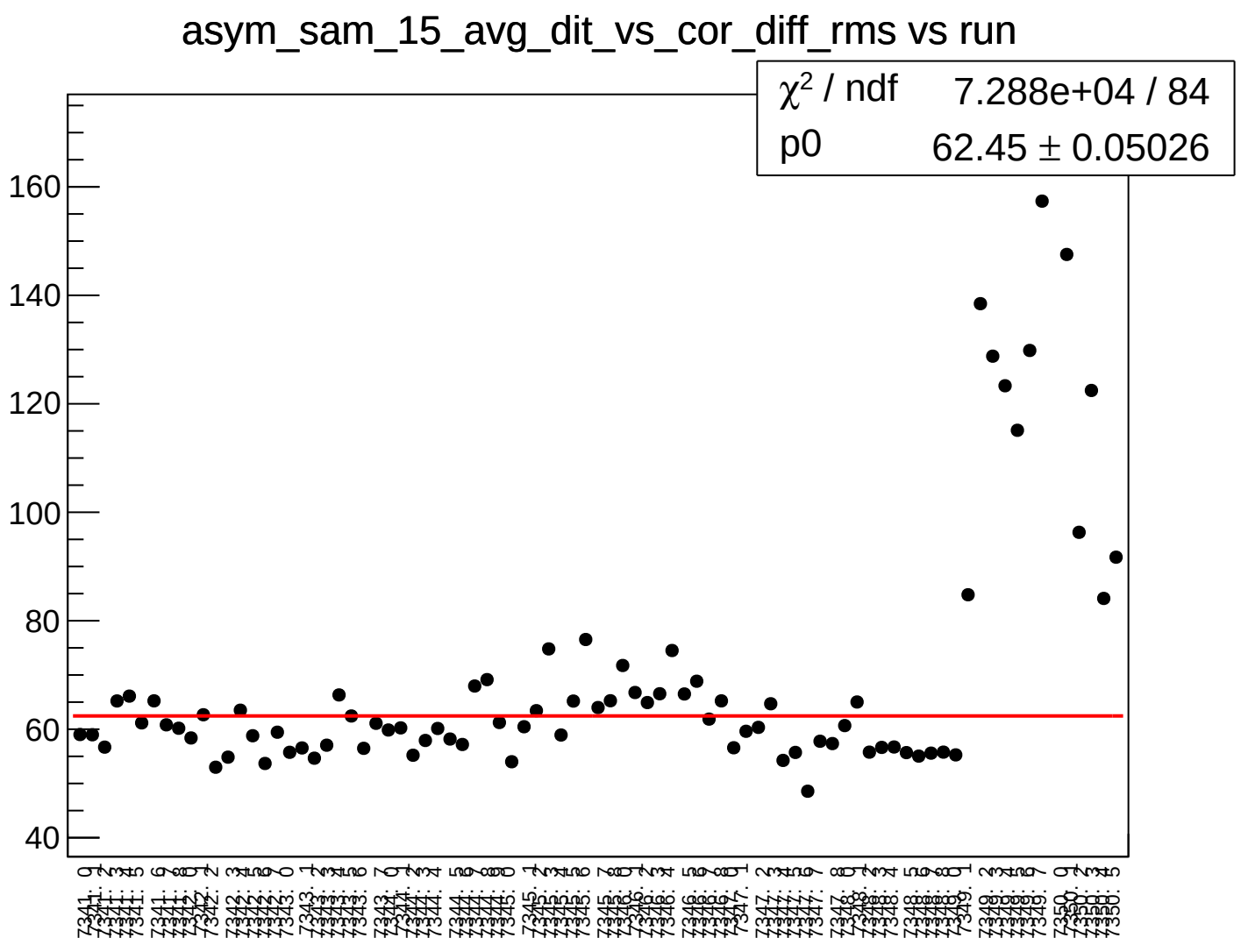

asym_sam_15_avg_rms vs run
χ² / ndf 1.041e+04 / 84
p0 502.1 ± 0.3962
600
550
500
450
400

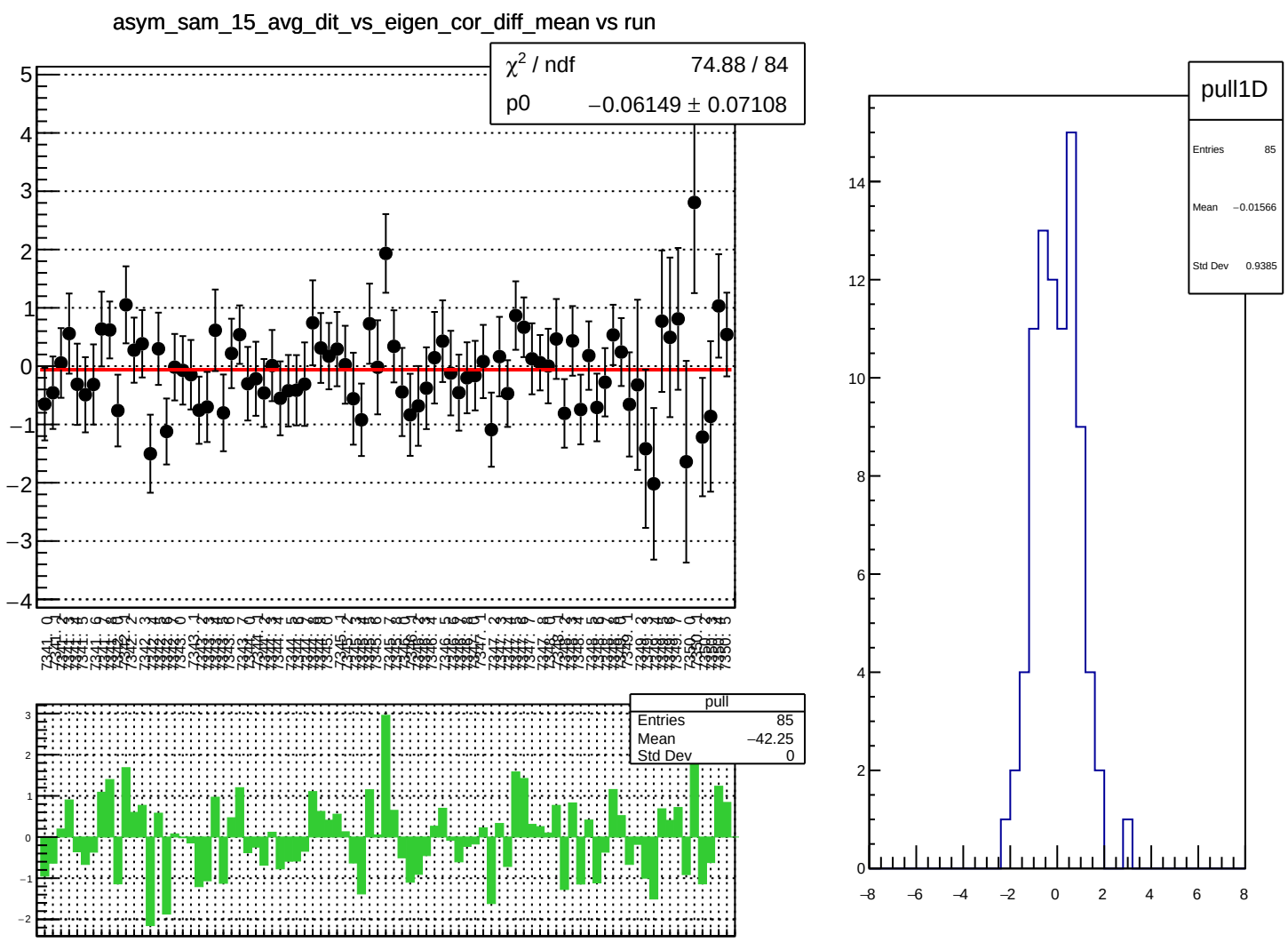

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.69 / 84
p0 −1.76e−14 ± 1.508e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 36.35
Std Dev 0
2
1
0
−1
−2
−3

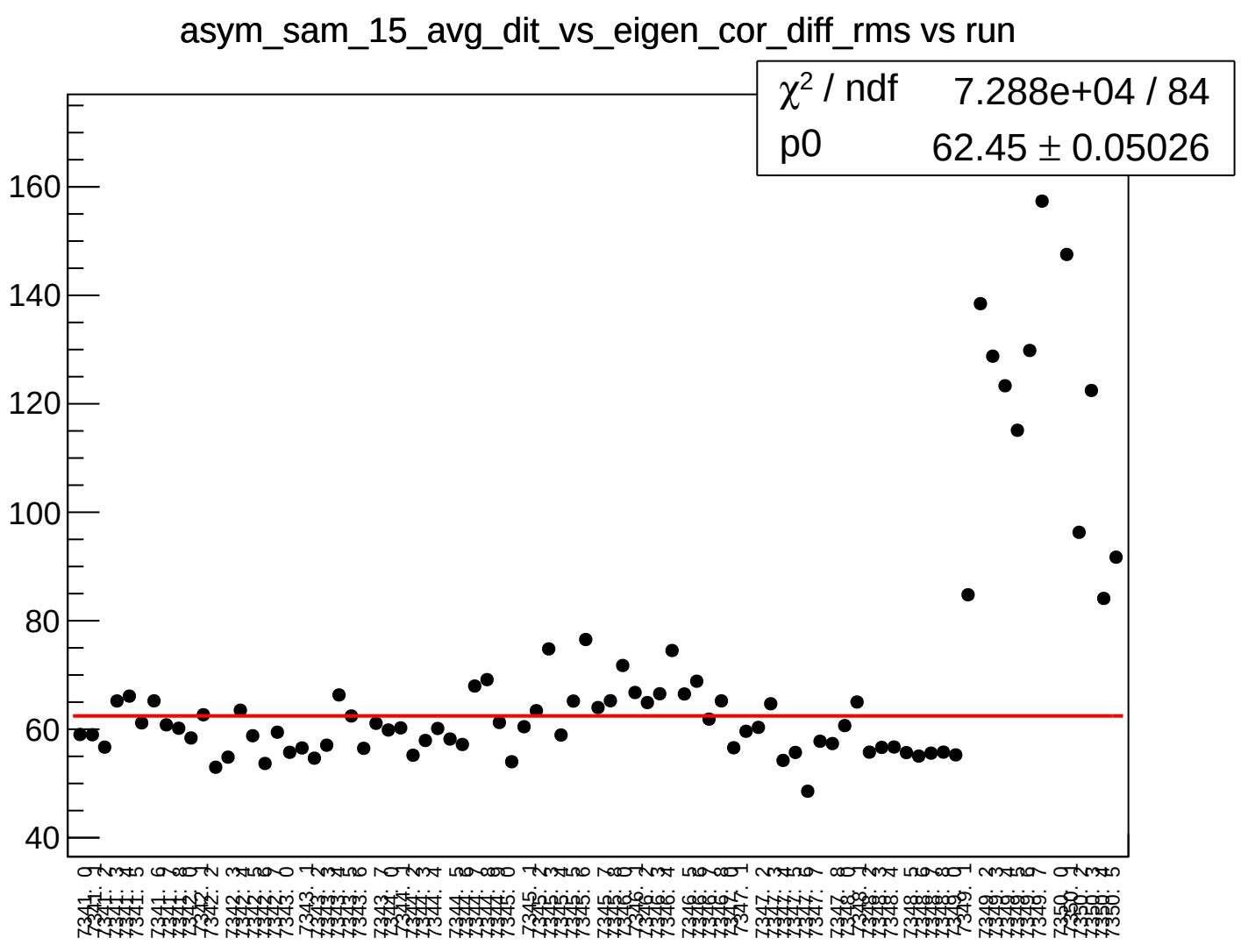

pull1D
Entries 85
Mean −0.05022
Std Dev 0.991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

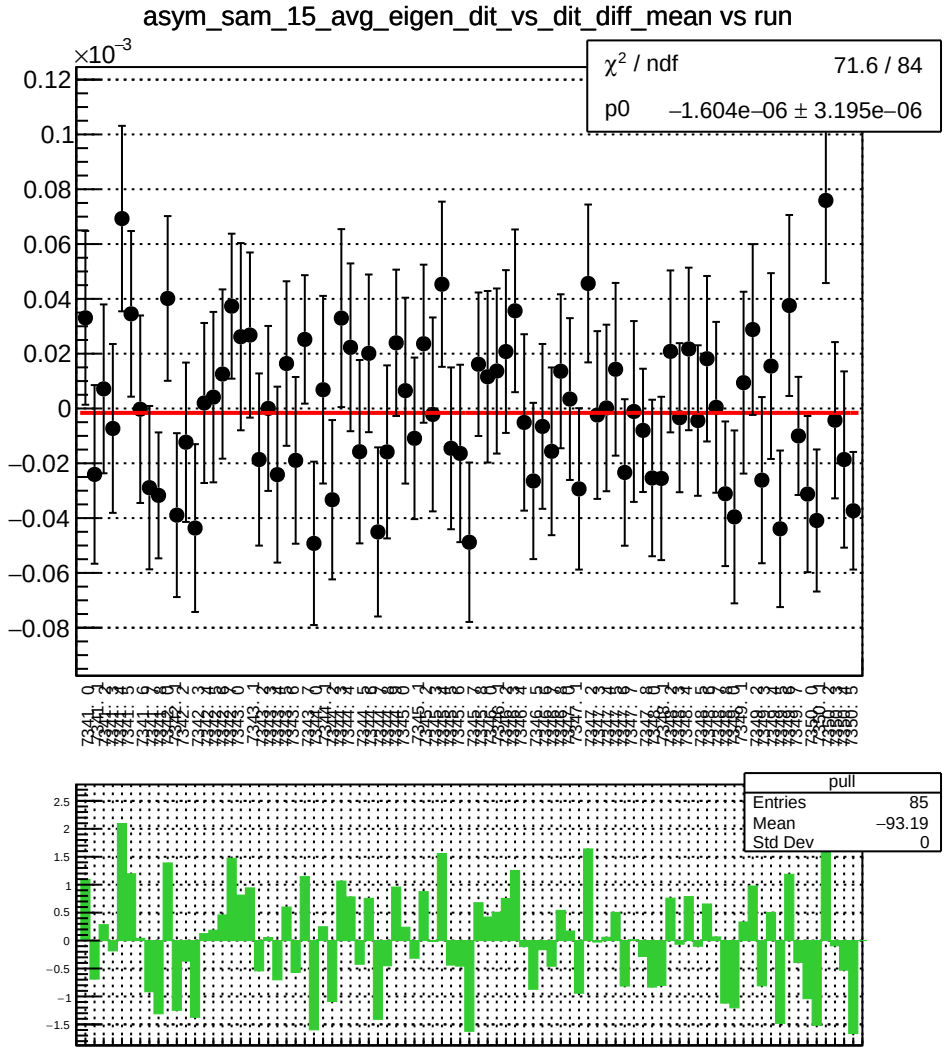

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.386e+06 / 84
p0 5.119e−12 ± 1.066e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

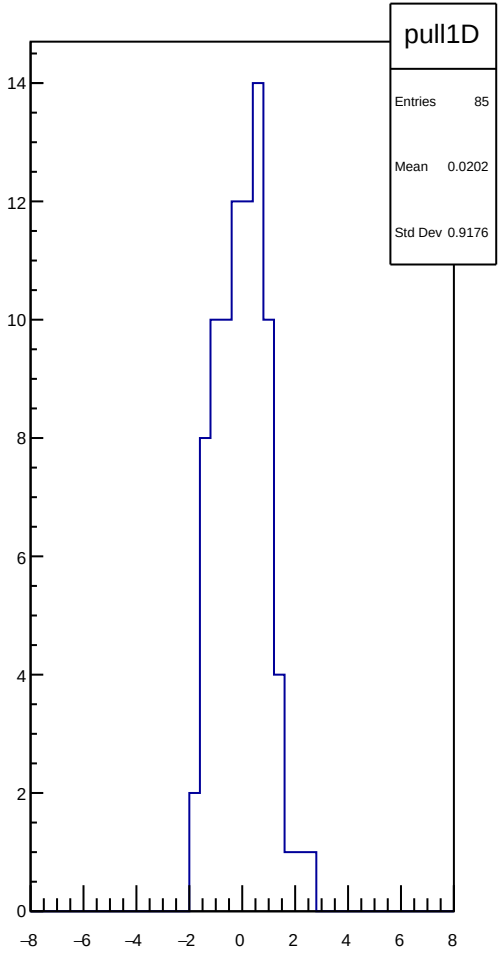

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.88 / 84
p0 −0.06149 ± 0.07108
pull
Entries 85
Mean −42.25
Std Dev 0
pull1D
Entries 85
Mean −0.01566
Std Dev 0.9385

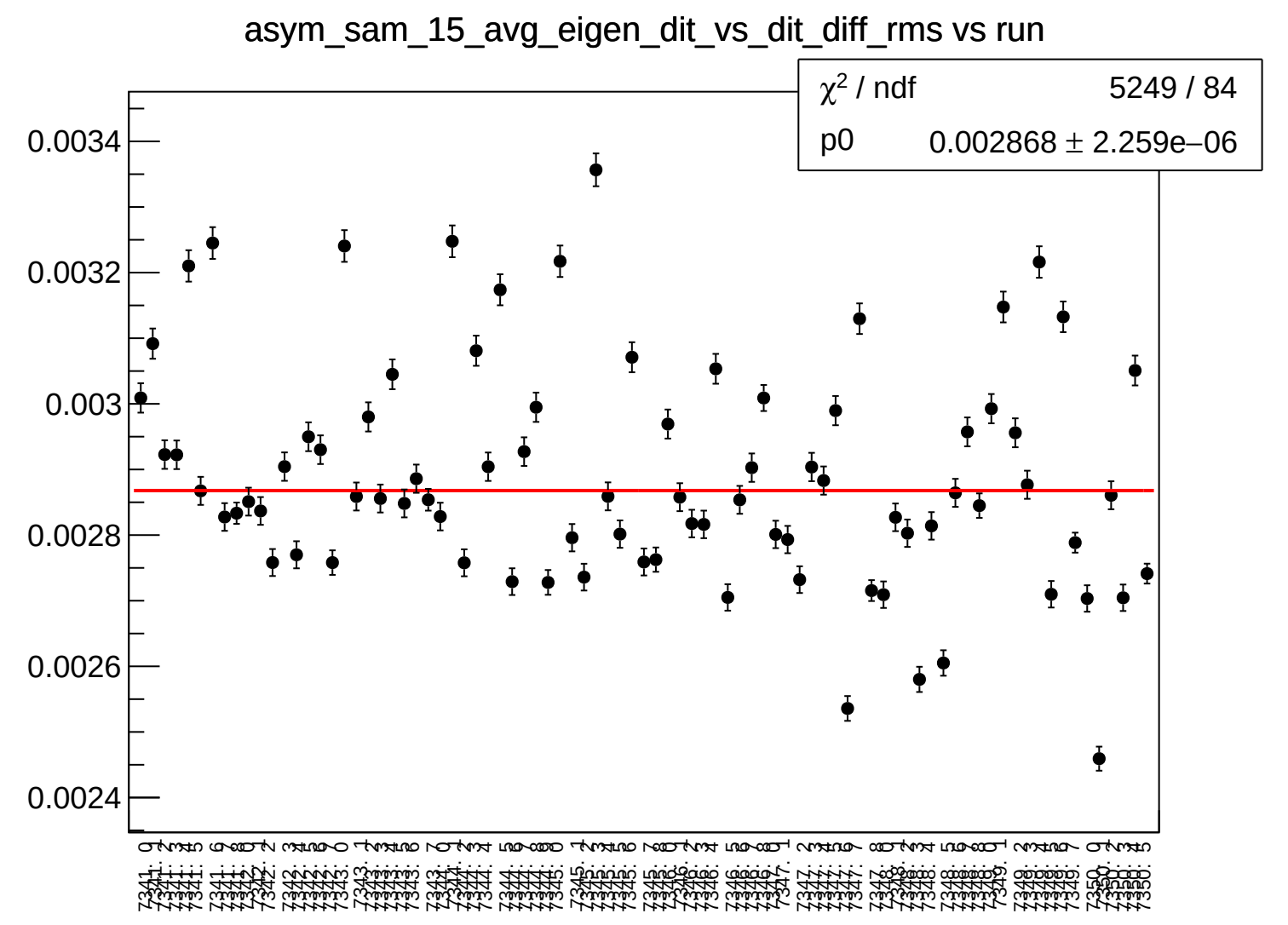

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.288e+04 / 84
p0 62.45 ± 0.05026
160
140
120
100
80
60
40

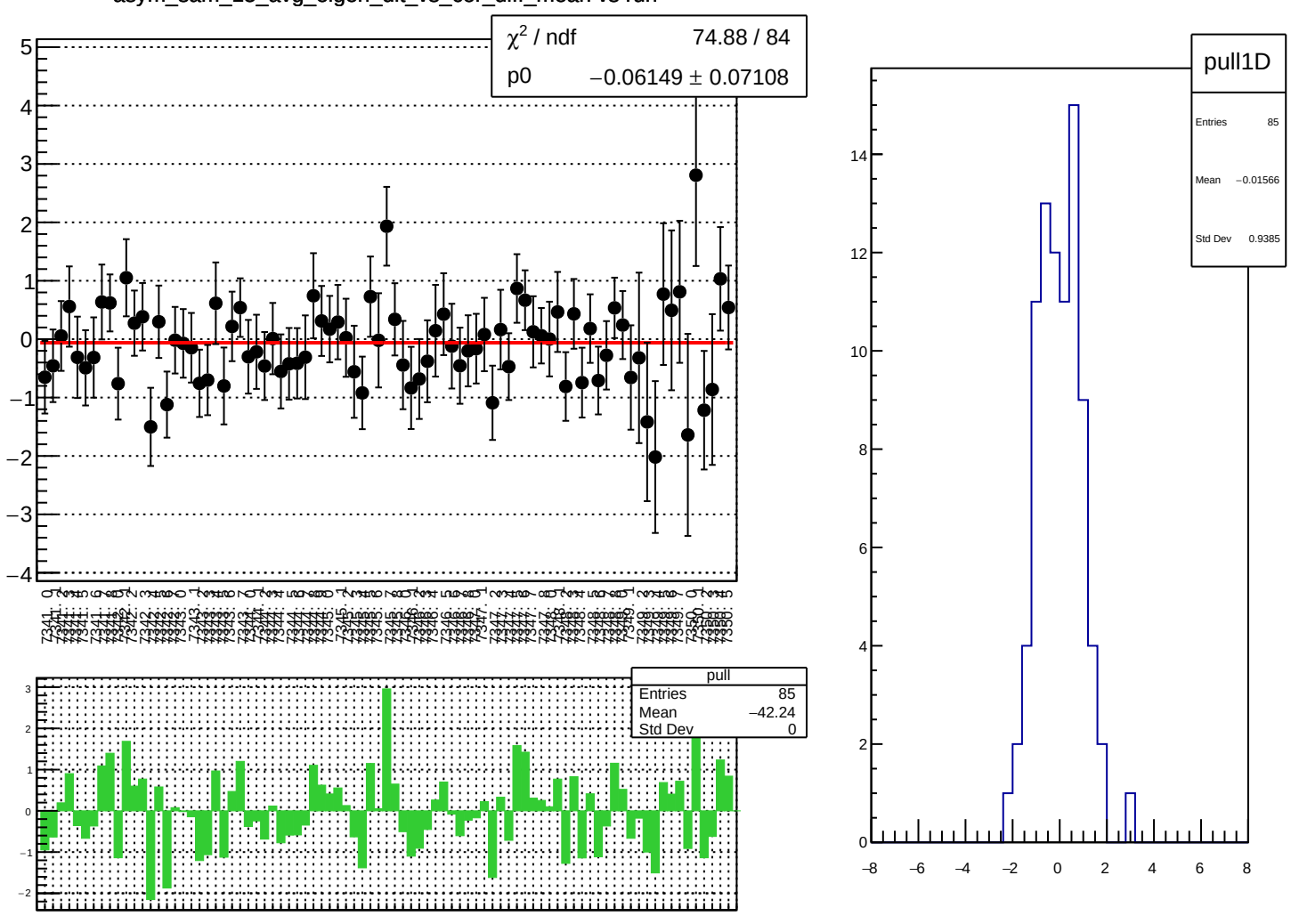

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.88 / 84
p0 −0.06149 ± 0.07108
pull
Entries 85
Mean −42.25
Std Dev 0
pull1D
Entries 85
Mean −0.01566
Std Dev 0.9385

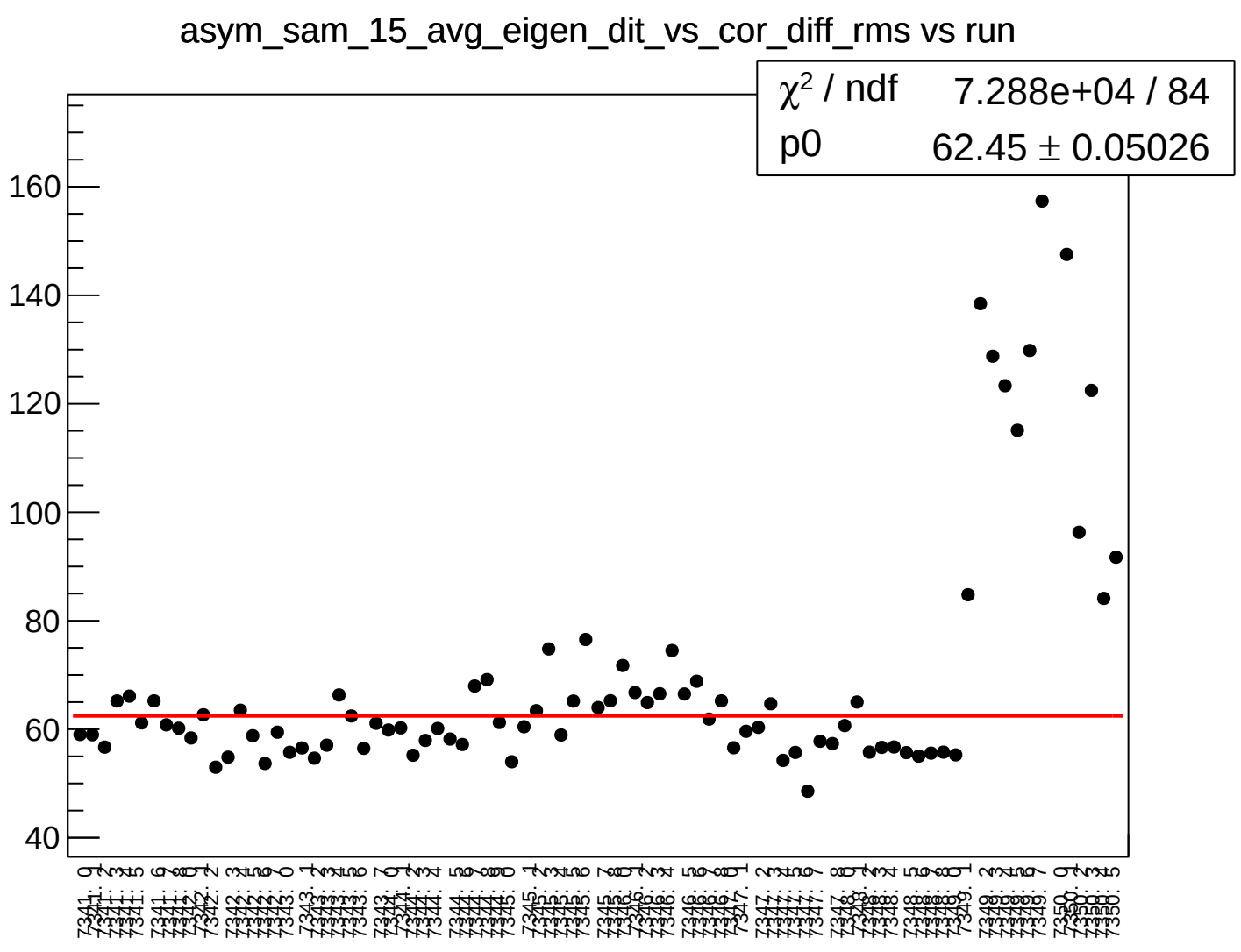

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.288e+04 / 84
p0 62.45 ± 0.05026
160
140
120
100
80
60
40

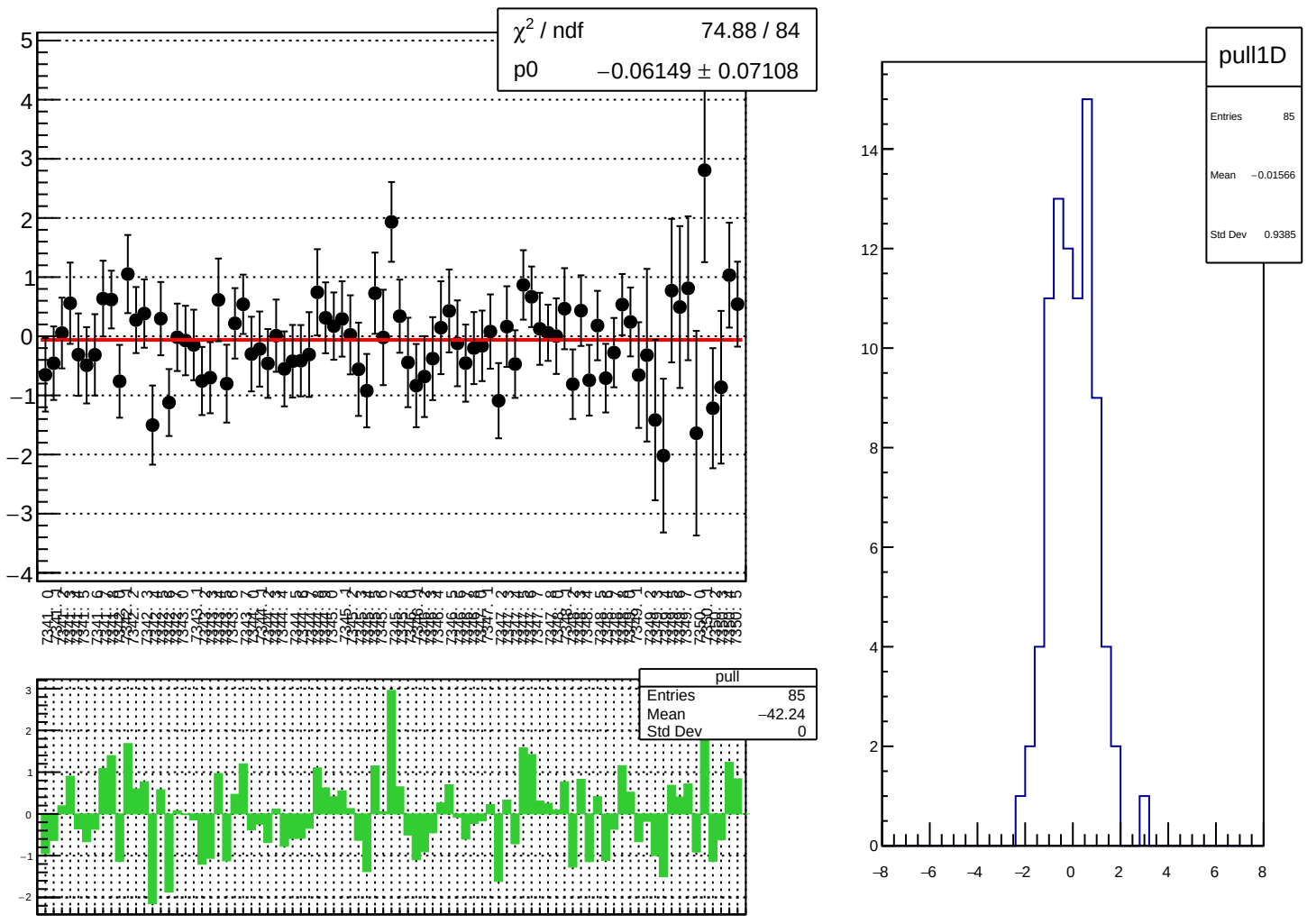

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.6 / 84
p0 −1.604e−06 ± 3.195e−06
pull
Entries 85
Mean −93.19
Std Dev 0

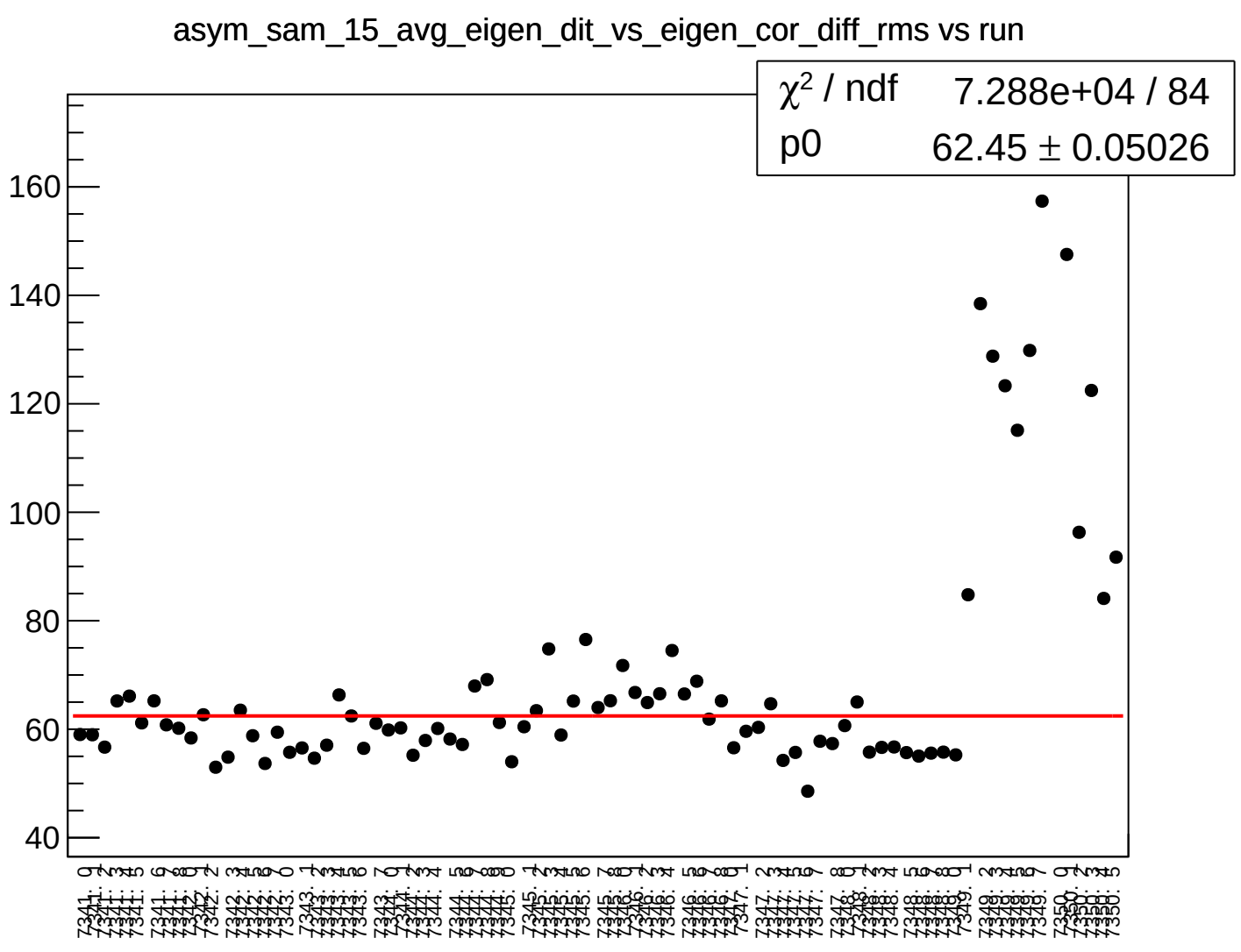

pull1D
Entries 85
Mean 0.0202
Std Dev 0.9176

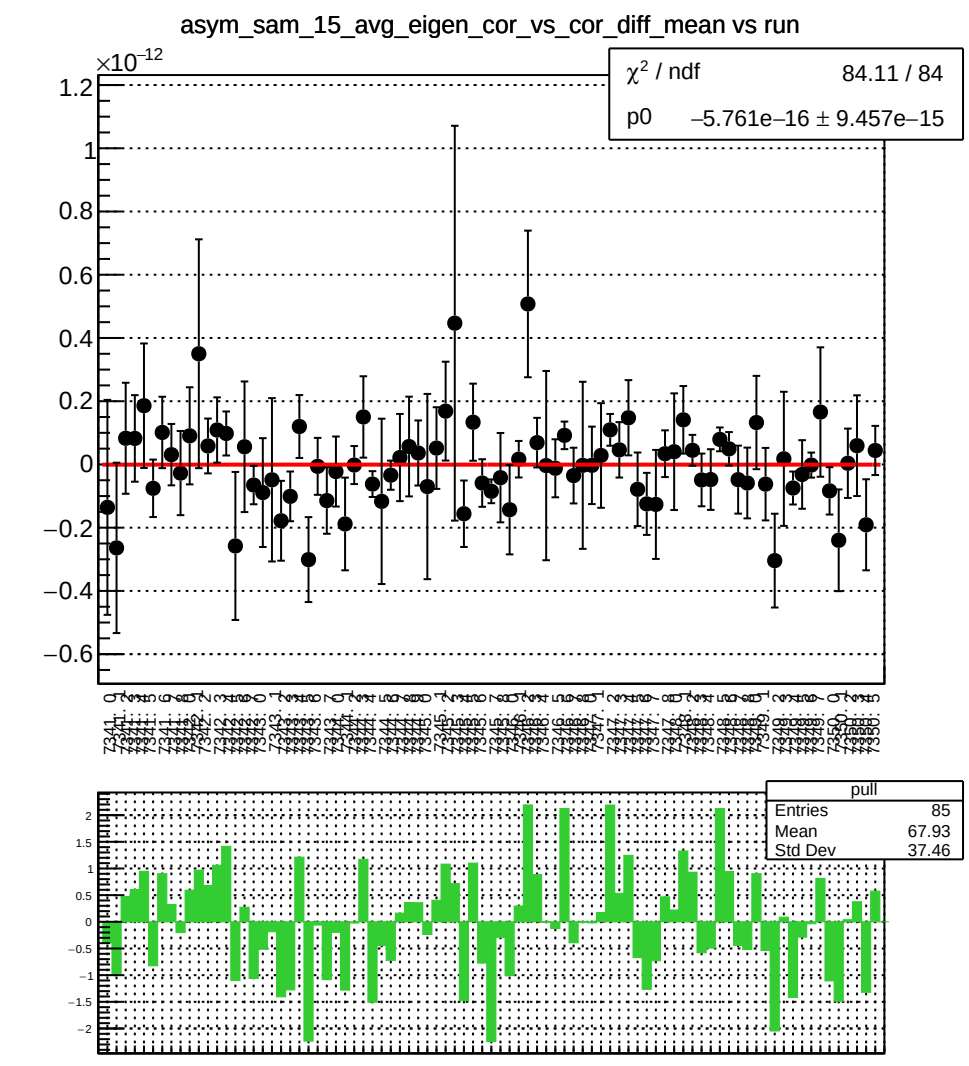

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5249 / 84
p0 0.002868 ± 2.259e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

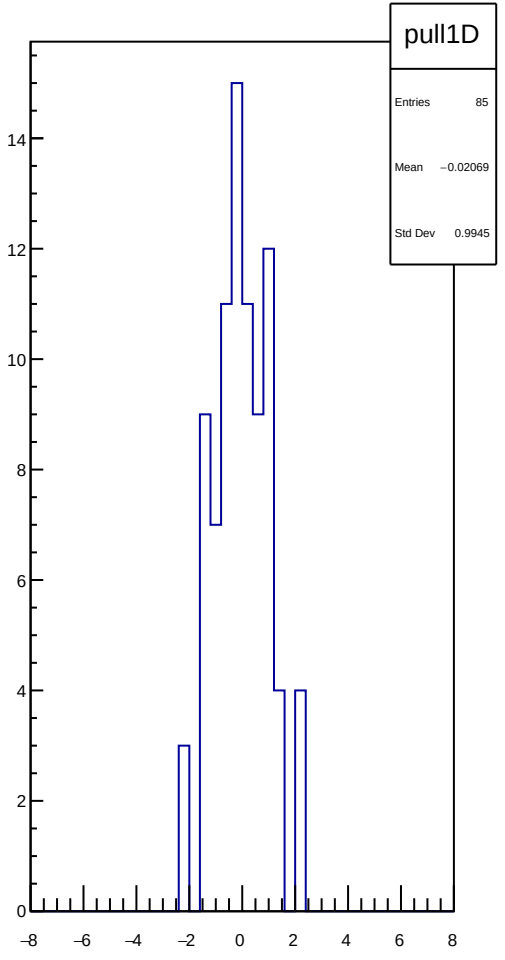

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.88 / 84
p0 −0.06149 ± 0.07108
pull
Entries 85
Mean −42.24
Std Dev 0
pull1D
Entries 85
Mean −0.01566
Std Dev 0.9385

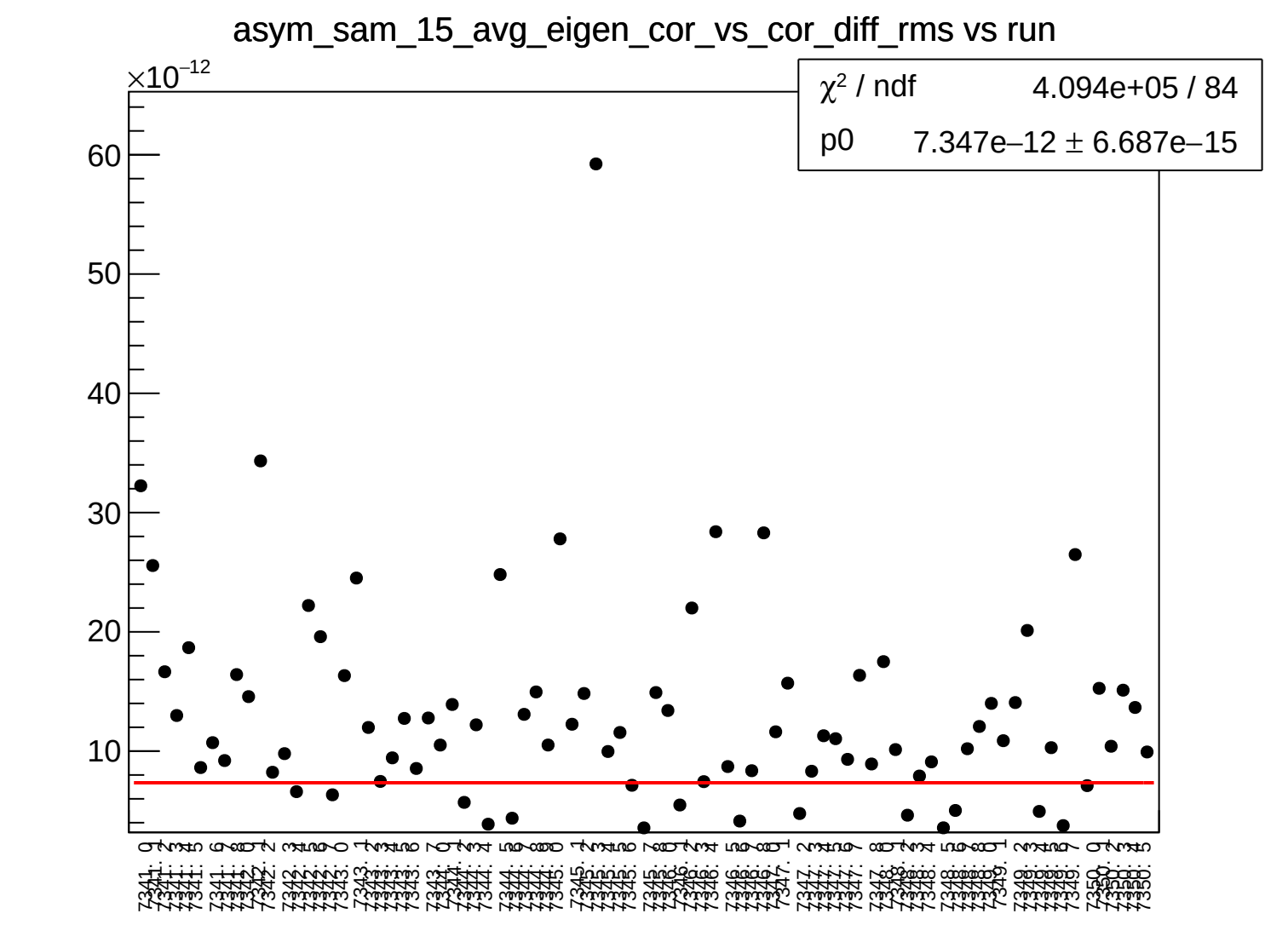

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.288e+04 / 84
p0 62.45 ± 0.05026
160
140
120
100
80
60
40

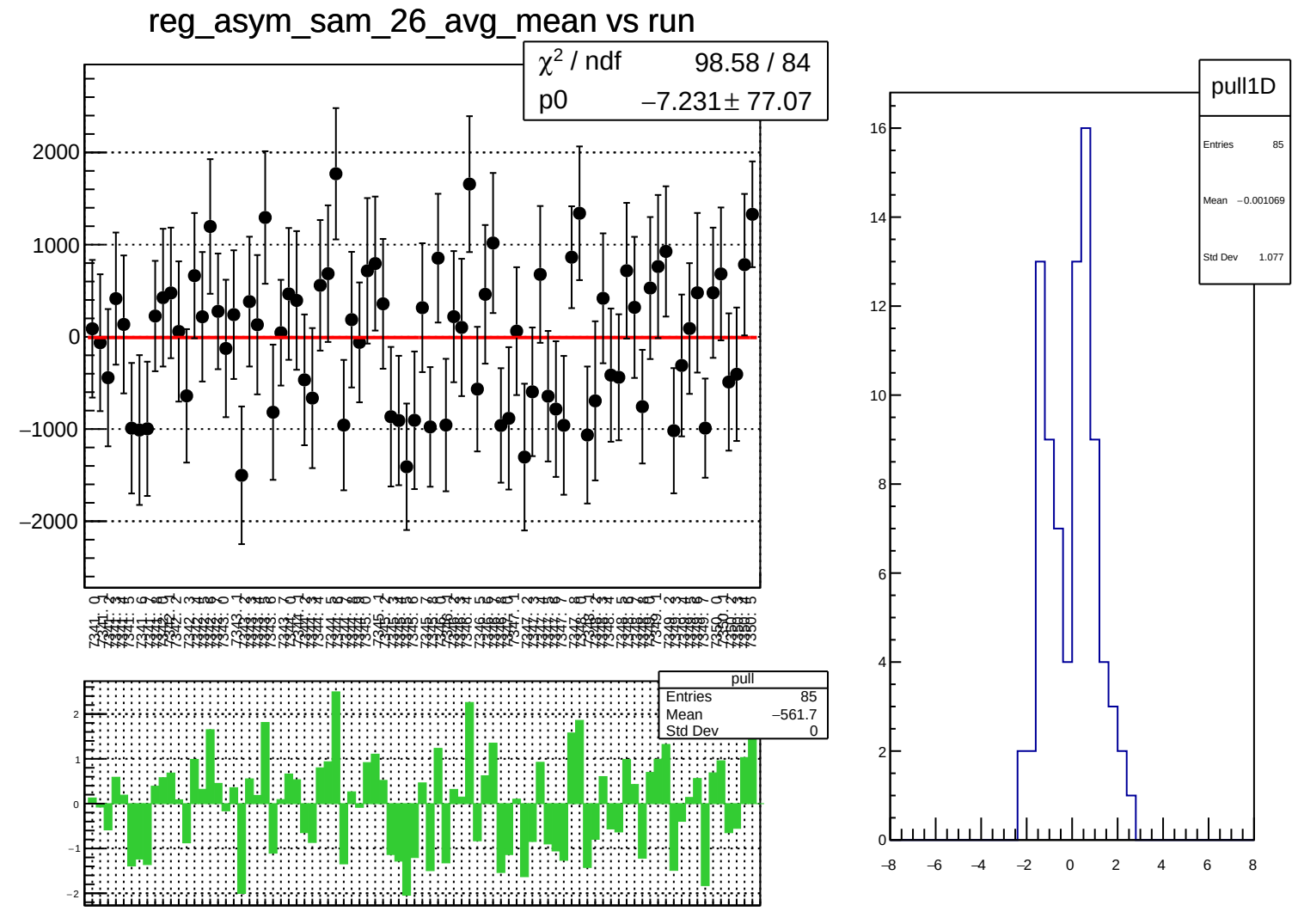

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.88 / 84
p0 −0.06149 ± 0.07108
pull
Entries 85
Mean −42.24
Std Dev 0
pull1D
Entries 85
Mean −0.01566
Std Dev 0.9385

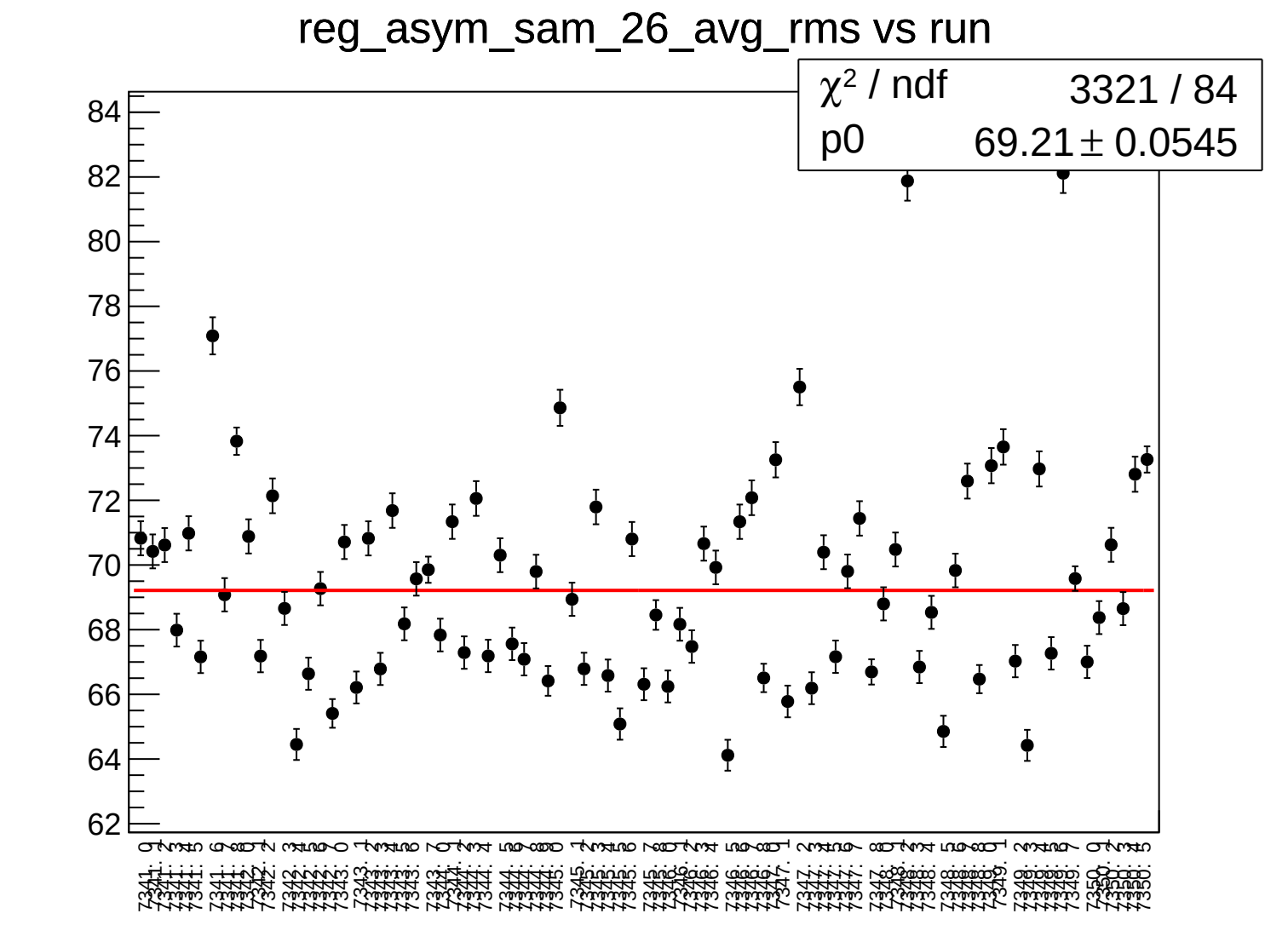

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.288e+04 / 84
p0 62.45 ± 0.05026
160
140
120
100
80
60
40

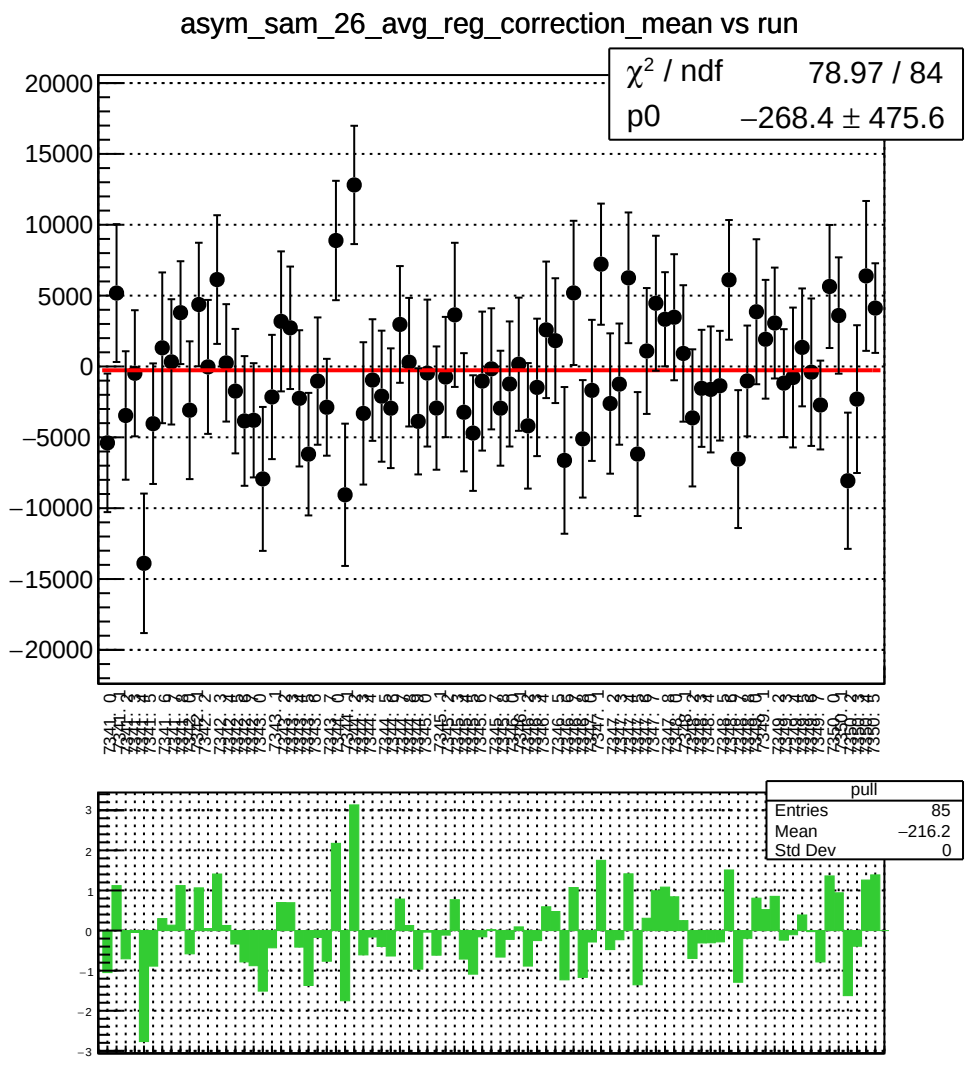

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 84.11 / 84
p0 −5.761e−16 ± 9.457e−15
pull
Entries 85
Mean 67.93
Std Dev 37.46

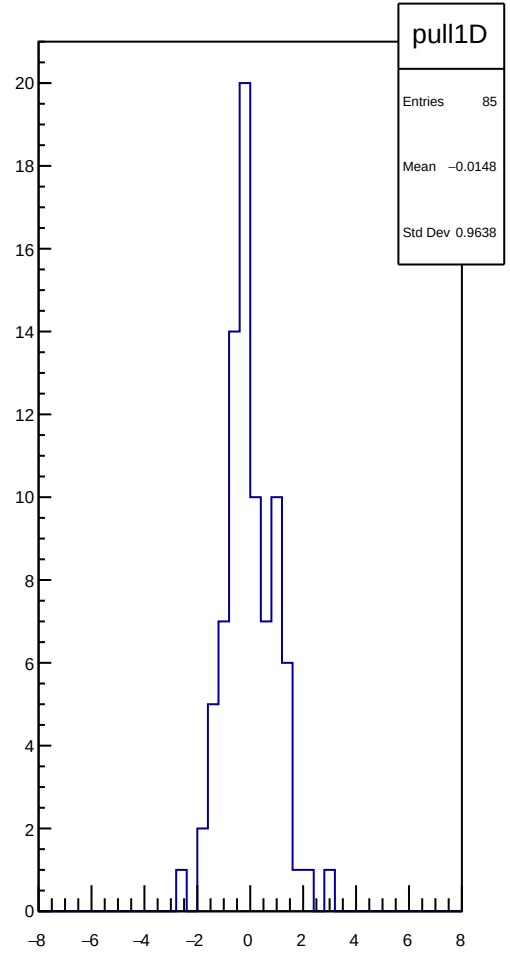

pull1D
Entries 85
Mean −0.02069
Std Dev 0.9945

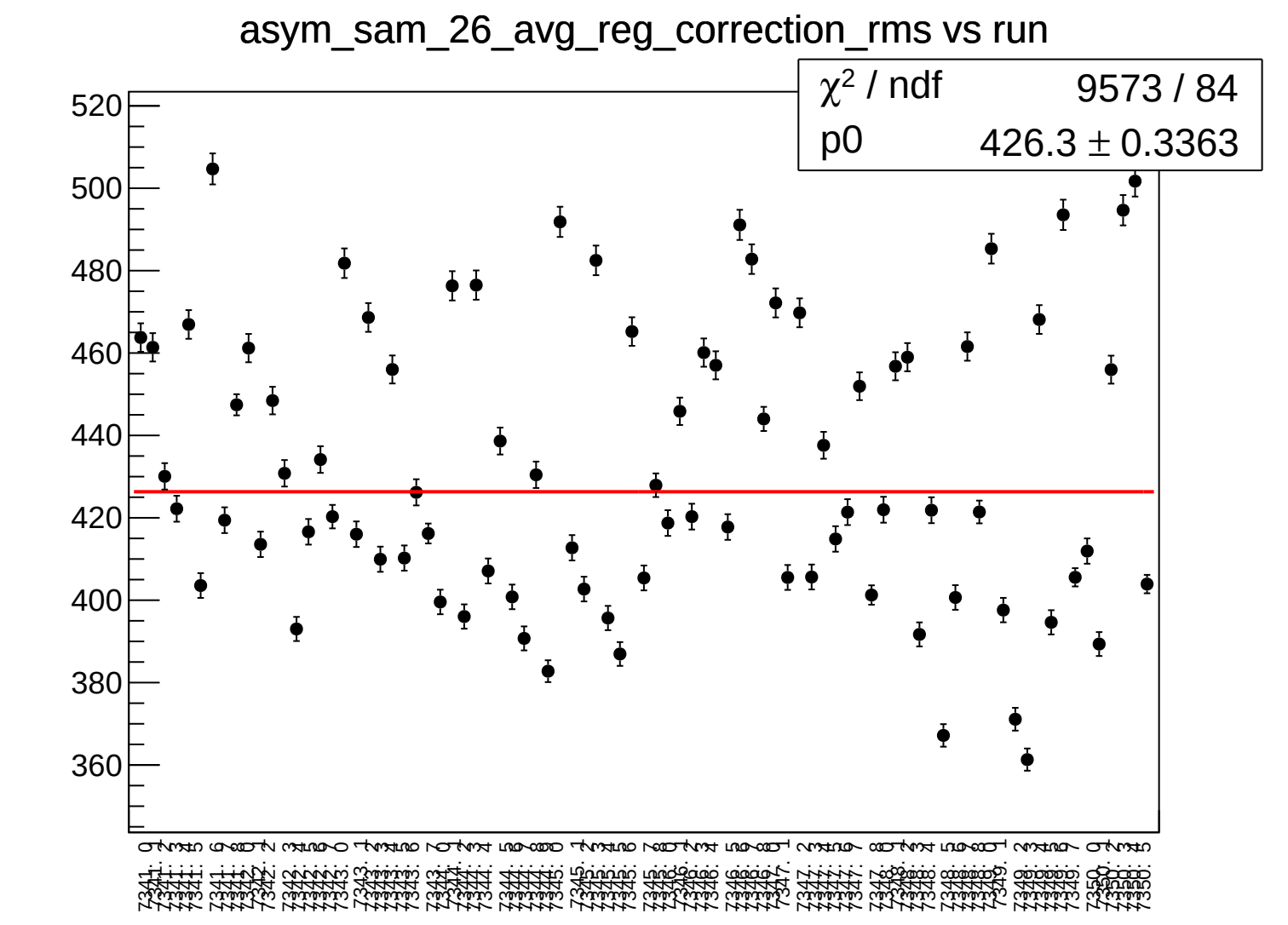

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.094e+05 / 84
p0 7.347e−12 ± 6.687e−15
60
50
40
30
20
10

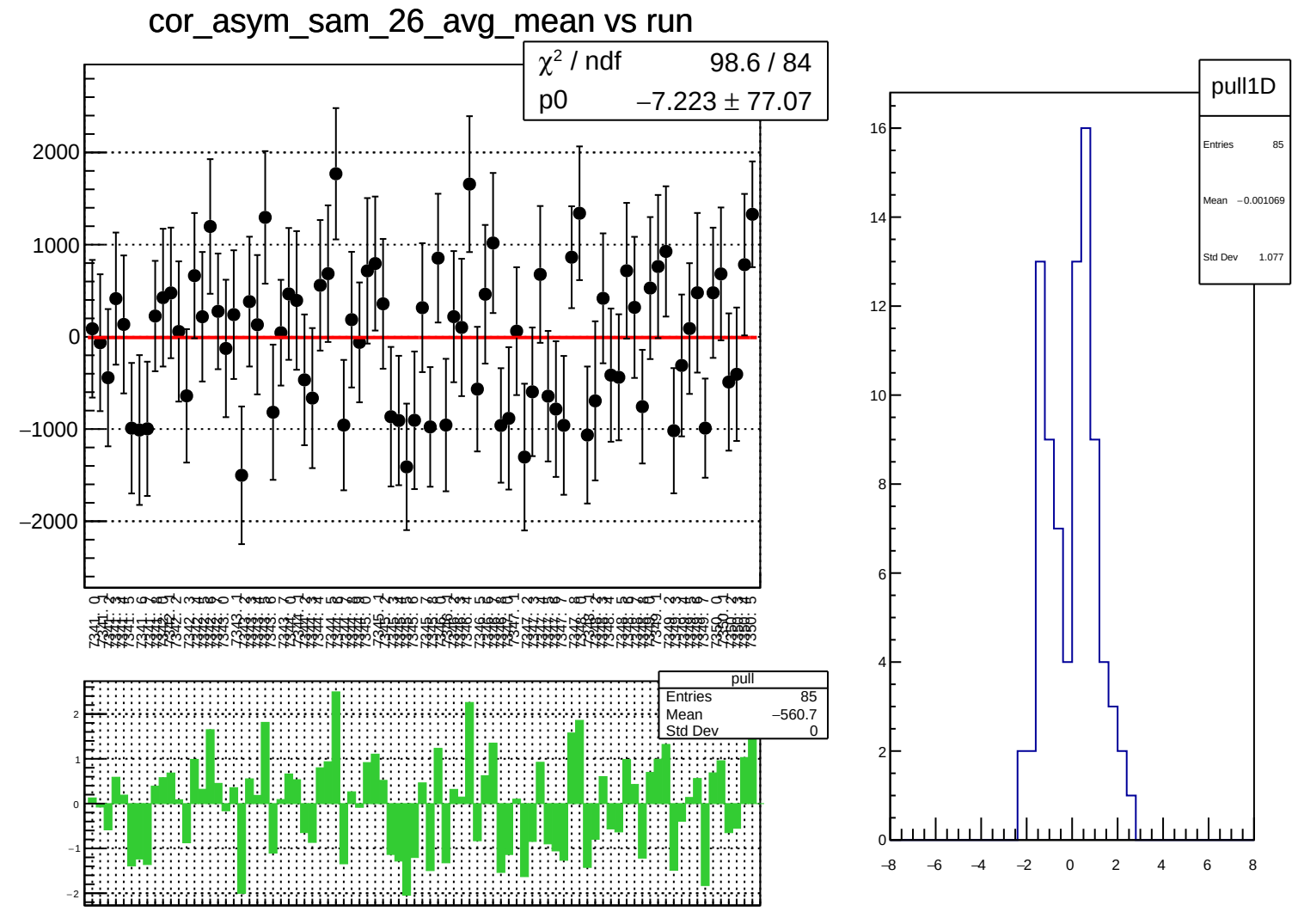

reg_asym_sam_26_avg_mean vs run
χ² / ndf 98.58 / 84
p0 −7.231 ± 77.07
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −561.7
Std Dev 0
pull1D
Entries 85
Mean −0.001069
Std Dev 1.077

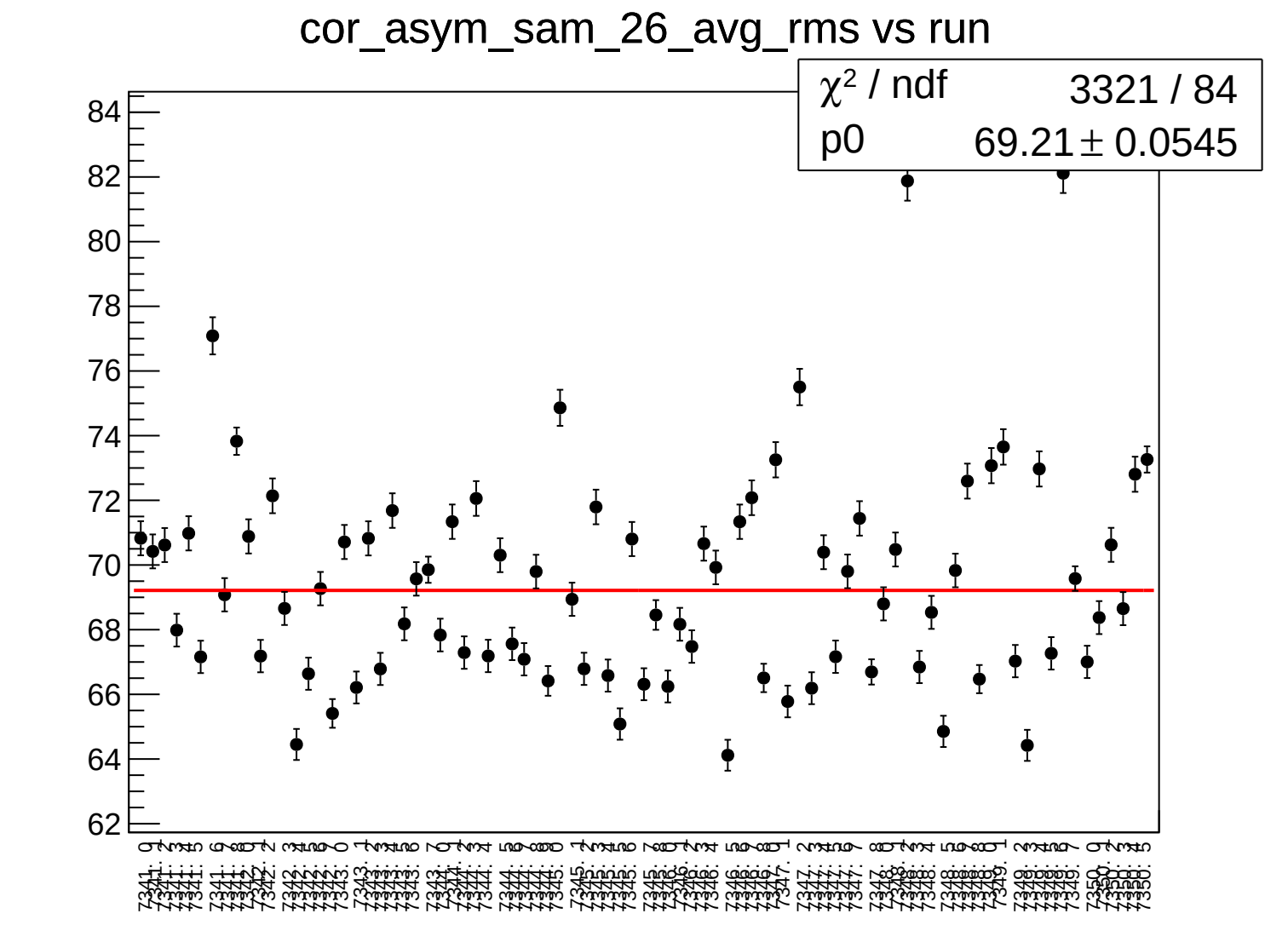

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3321 / 84
p0 69.21 ± 0.0545
84
82
80
78
76
74
72
70
68
66
64
62

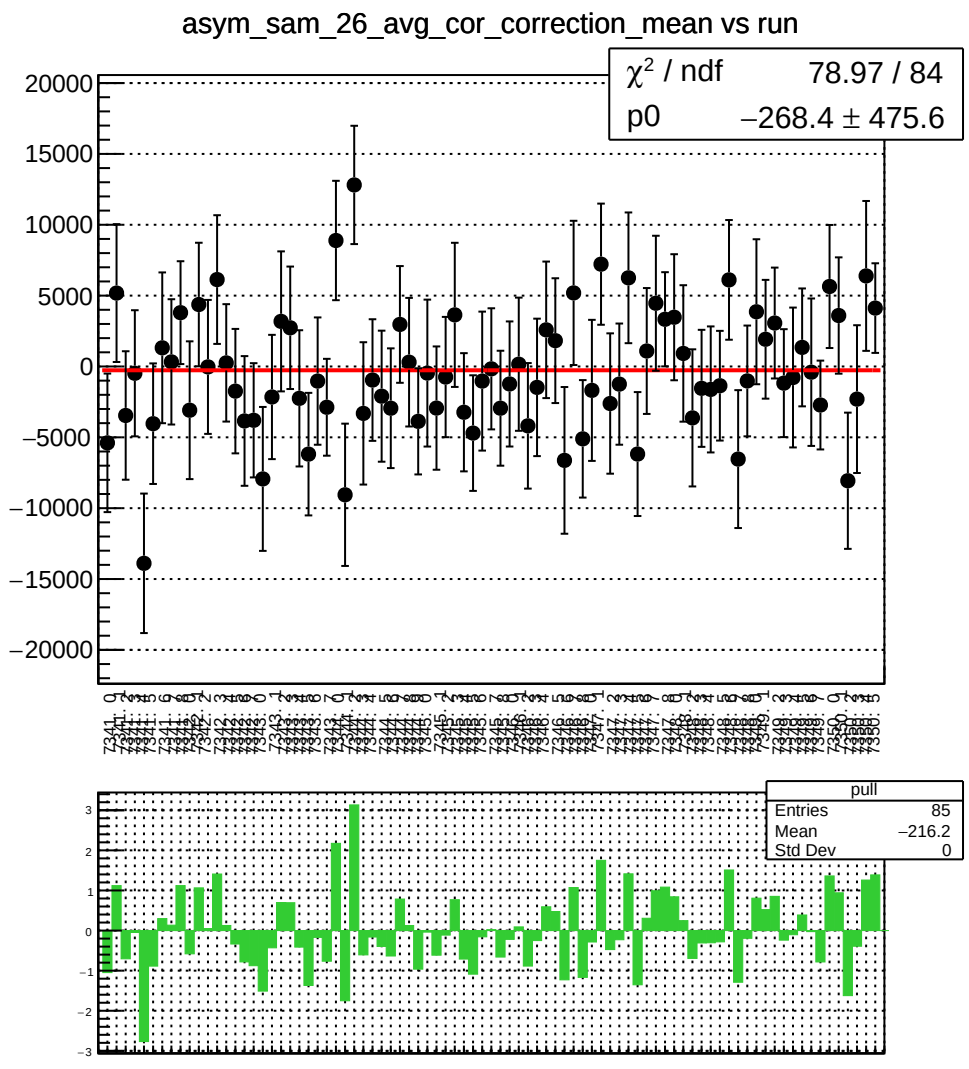

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 78.97 / 84
p0 −268.4 ± 475.6
pull
Entries 85
Mean −216.2
Std Dev 0

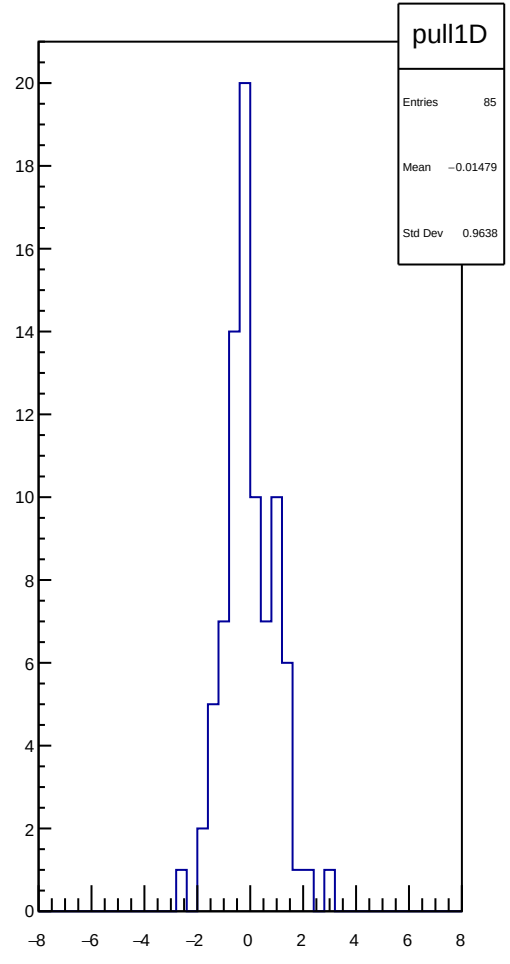

pull1D
Entries 85
Mean −0.0148
Std Dev 0.9638

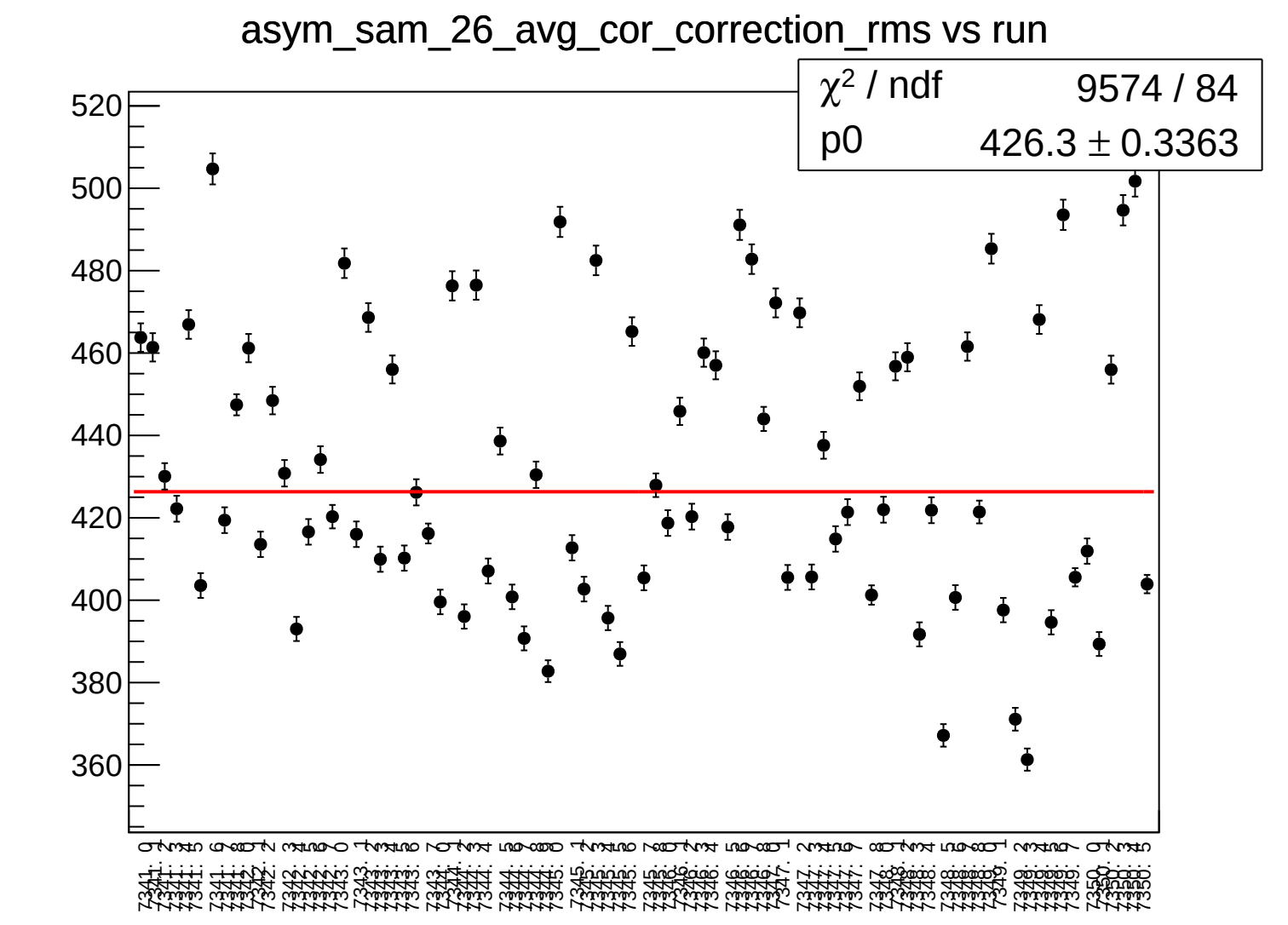

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 9573 / 84
p0 426.3 ± 0.3363
520
500
480
460
440
420
400
380
360

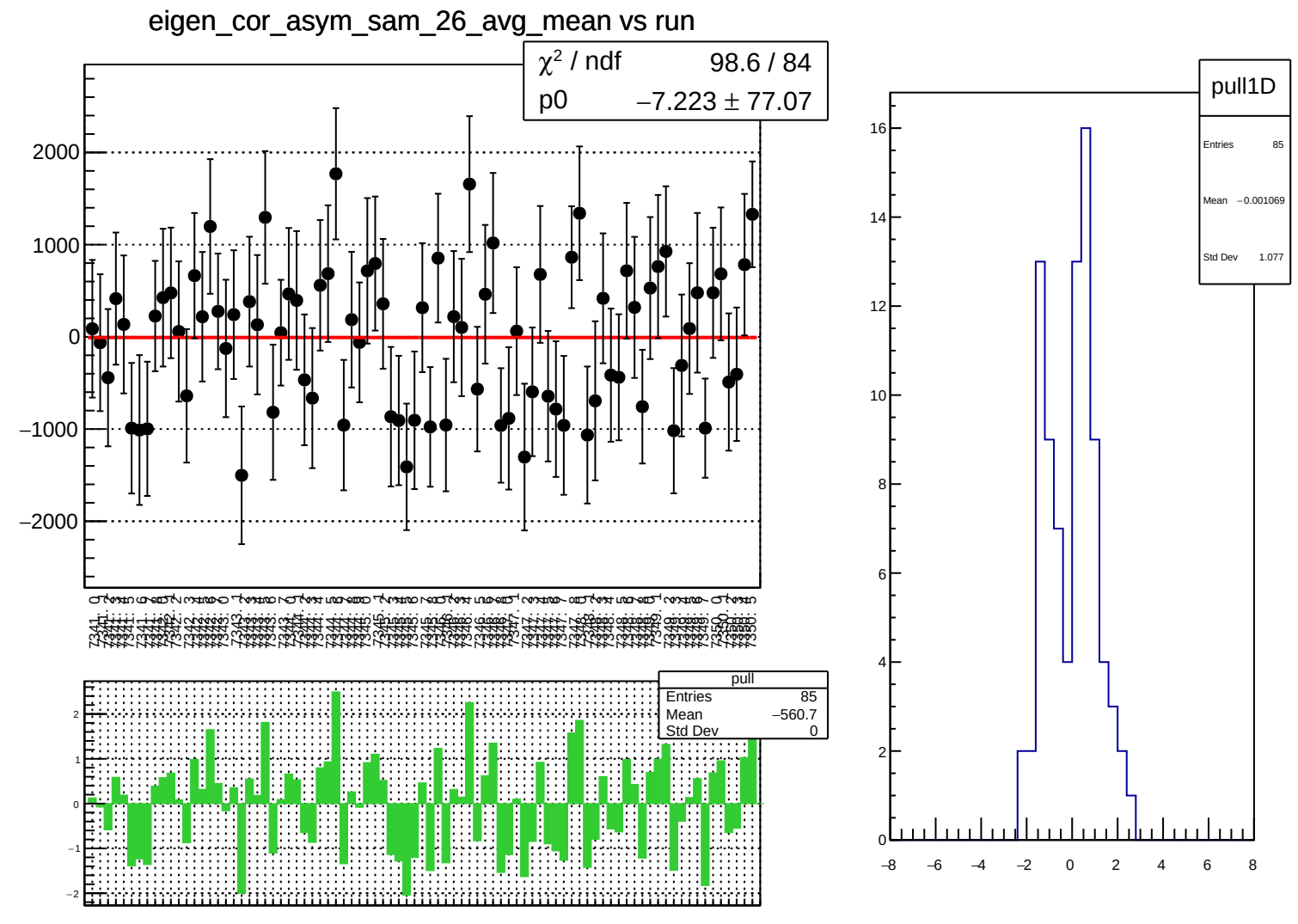

cor_asym_sam_26_avg_mean vs run
χ² / ndf 98.6 / 84
p0 −7.223 ± 77.07
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −560.7
Std Dev 0
pull1D
Entries 85
Mean −0.001069
Std Dev 1.077

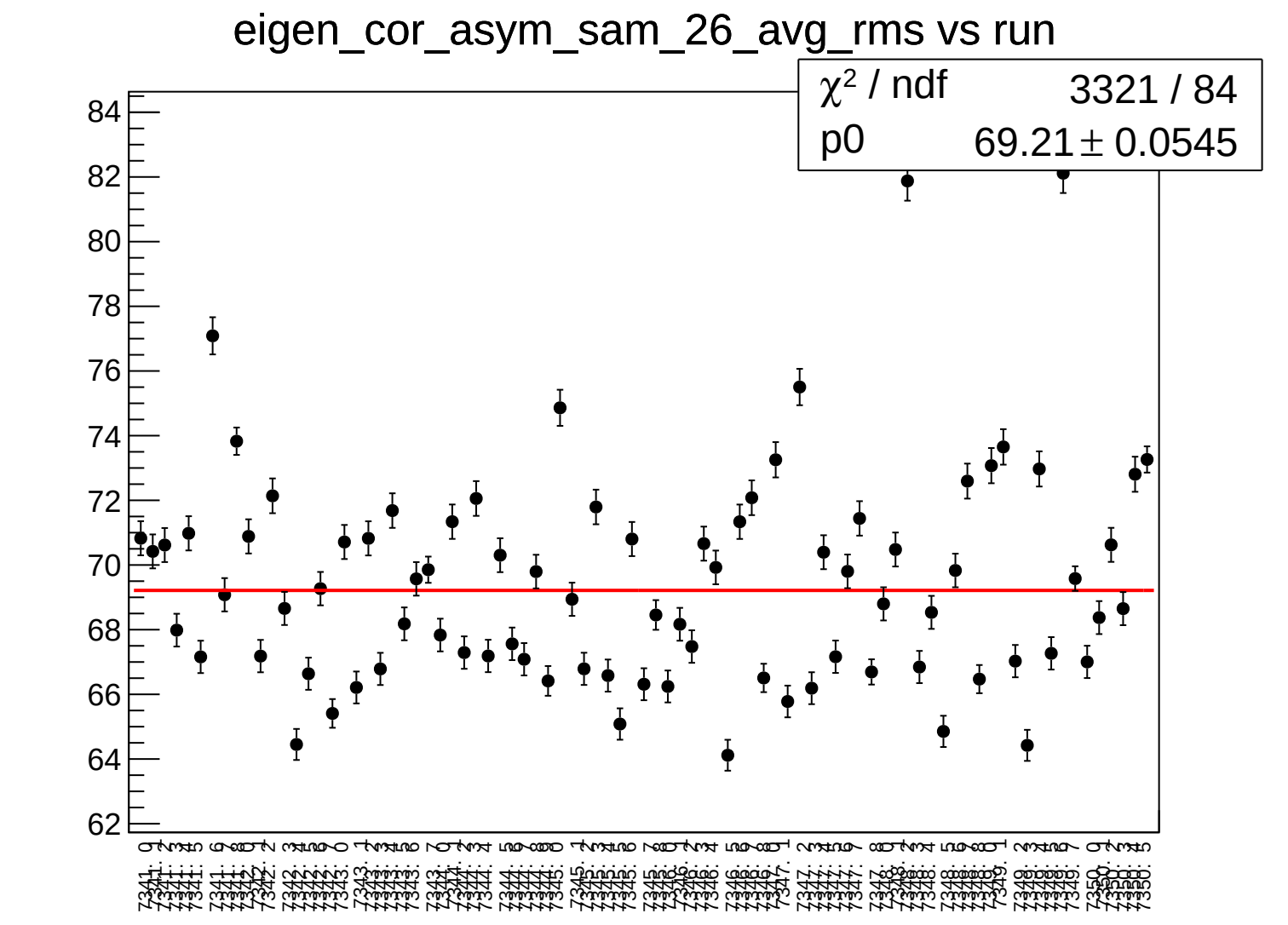

cor_asym_sam_26_avg_rms vs run
χ² / ndf 3321 / 84
p0 69.21 ± 0.0545
84
82
80
78
76
74
72
70
68
66
64
62

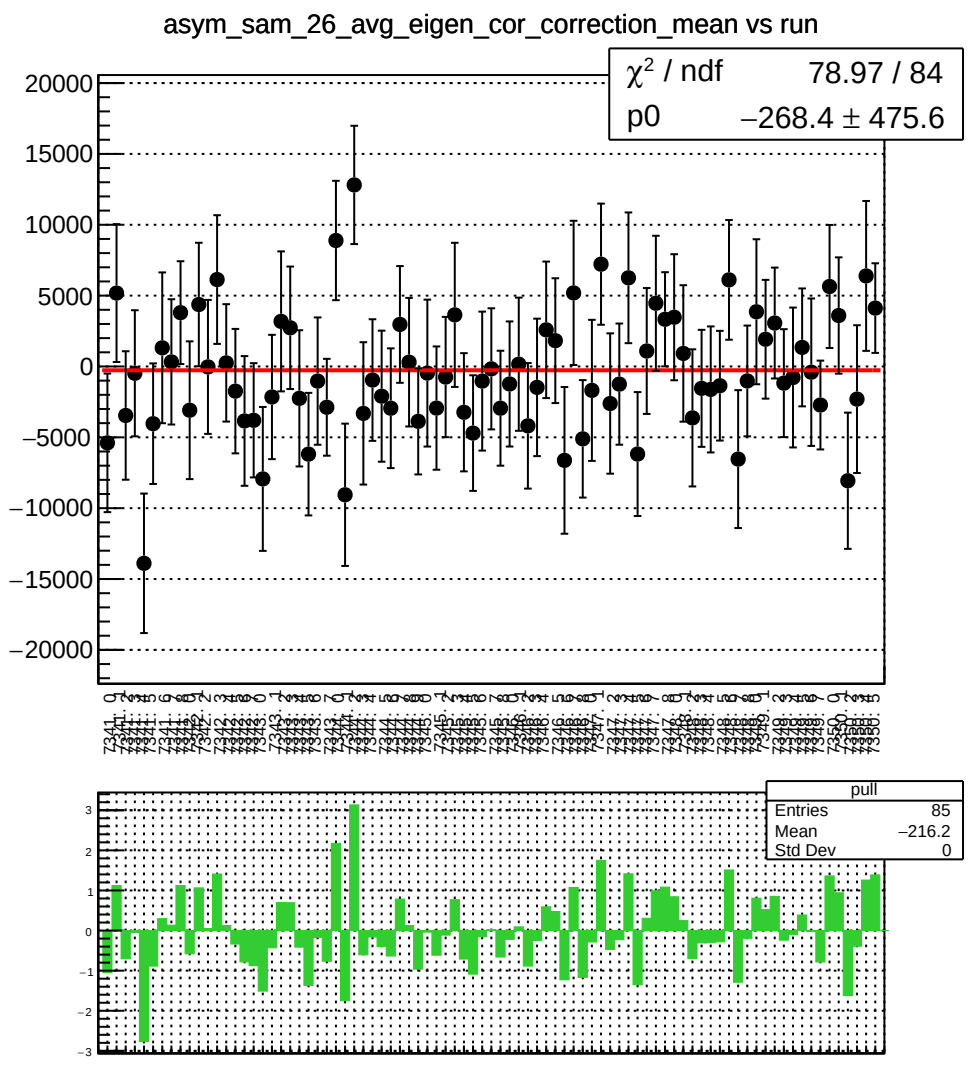

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 78.97 / 84
p0 −268.4 ± 475.6
pull
Entries 85
Mean −216.2
Std Dev 0

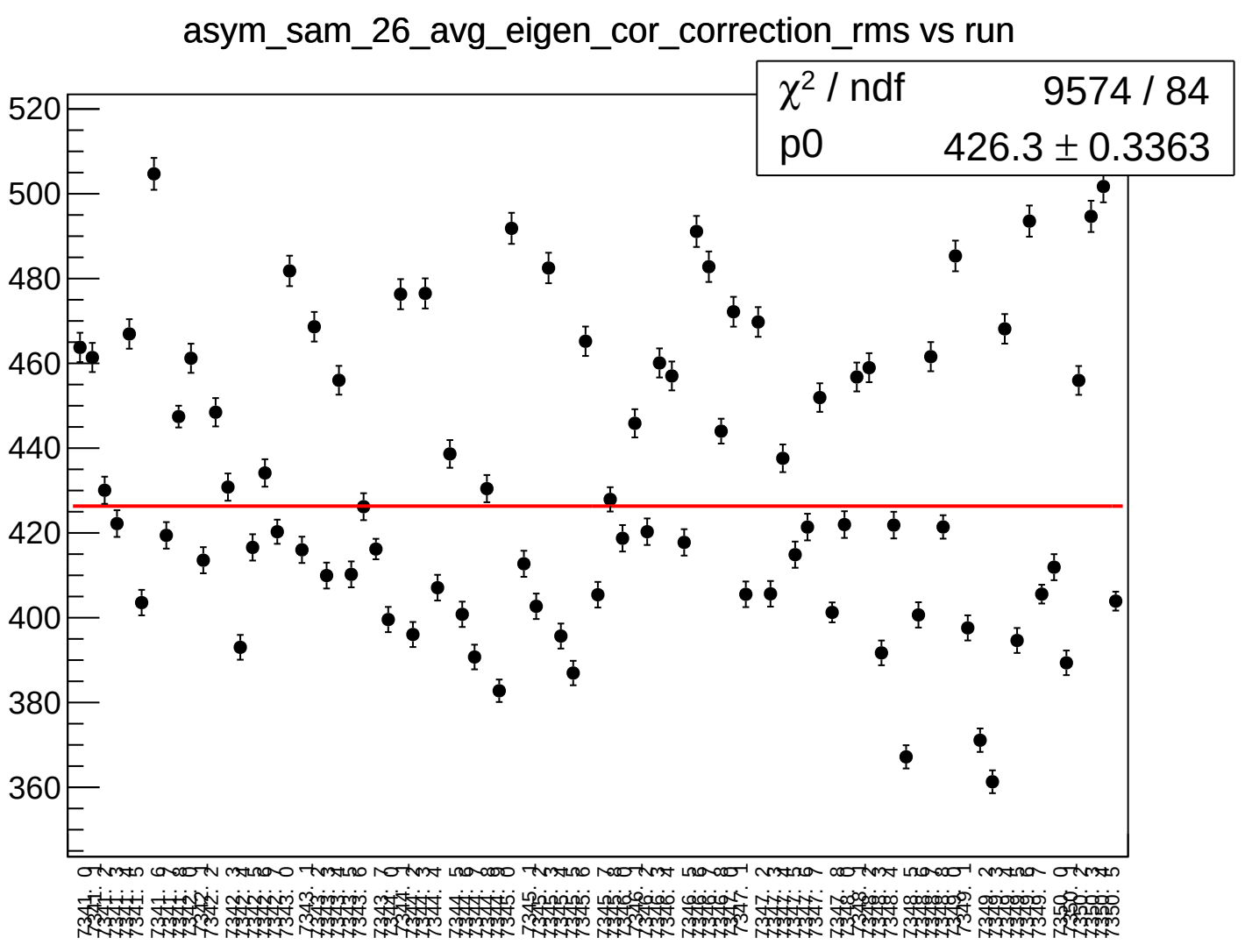

pull1D
Entries 85
Mean −0.01479
Std Dev 0.9638

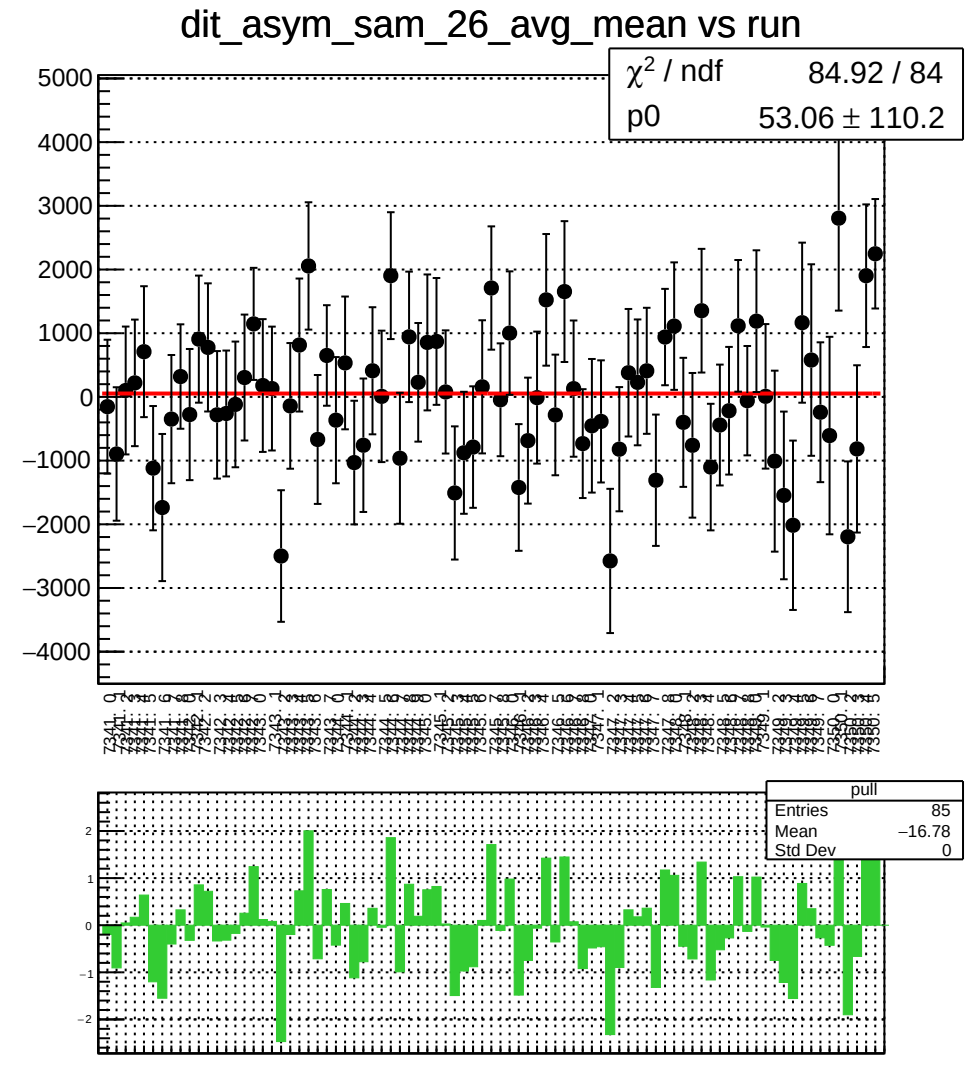

asym_sam_26_avg_cor_correction_rms vs run
χ^2 / ndf 9574 / 84
p0 426.3 ± 0.3363
520
500
480
460
440
420
400
380
360

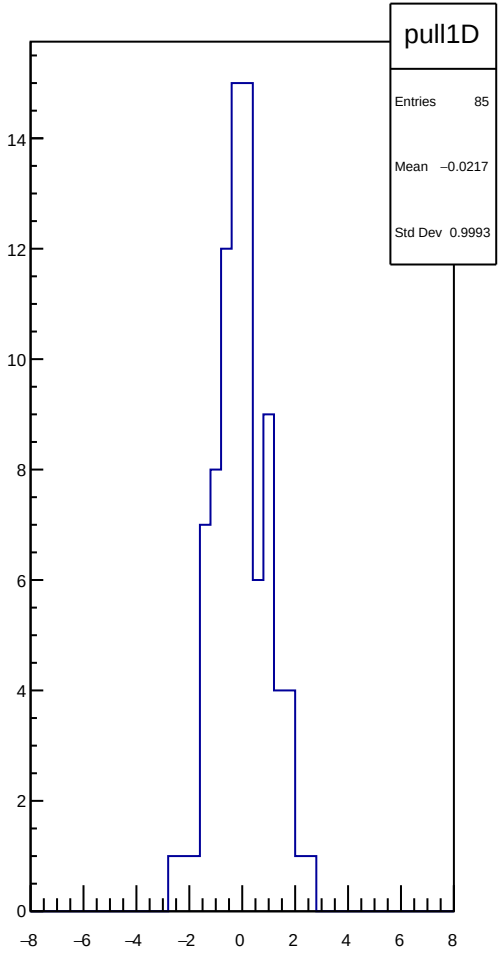

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 98.6 / 84
p0 −7.223 ± 77.07
2000
1000
0
−1000
−2000
pull
Entries 85
Mean −560.7
Std Dev 0
pull1D
Entries 85
Mean −0.001069
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

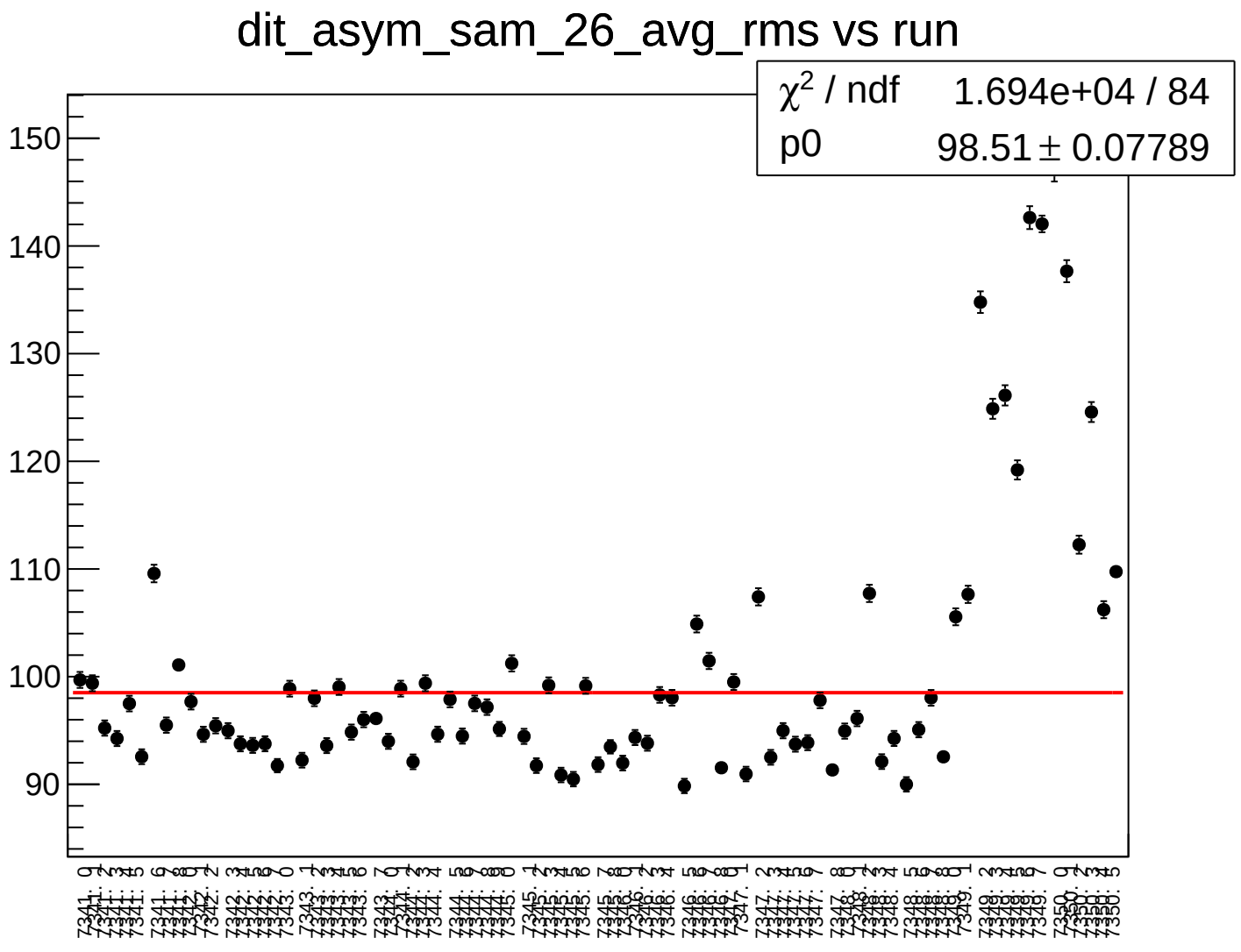

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3321 / 84
p0 69.21 ± 0.0545
84
82
80
78
76
74
72
70
68
66
64
62

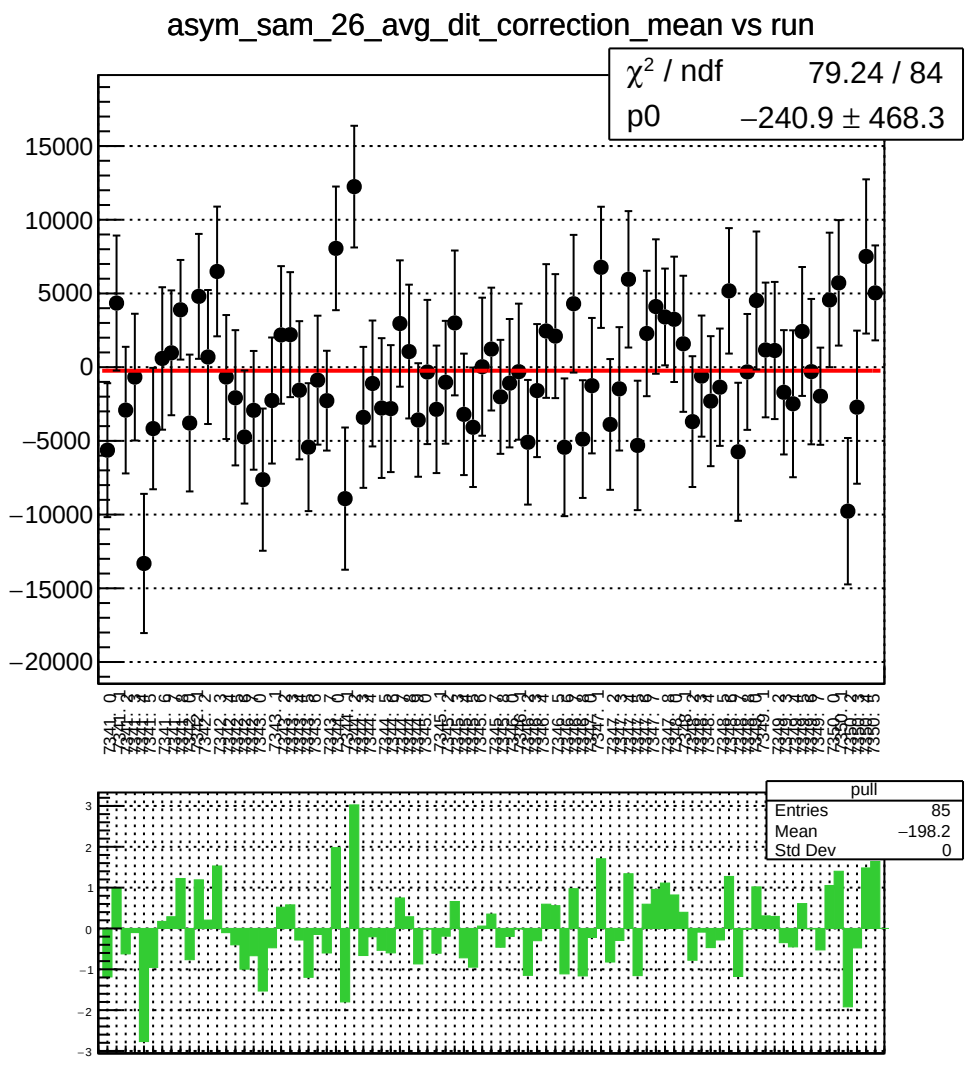

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.97 / 84
p0 −268.4 ± 475.6
pull
Entries 85
Mean −216.2
Std Dev 0
pull1D
Entries 85
Mean −0.01479
Std Dev 0.9638

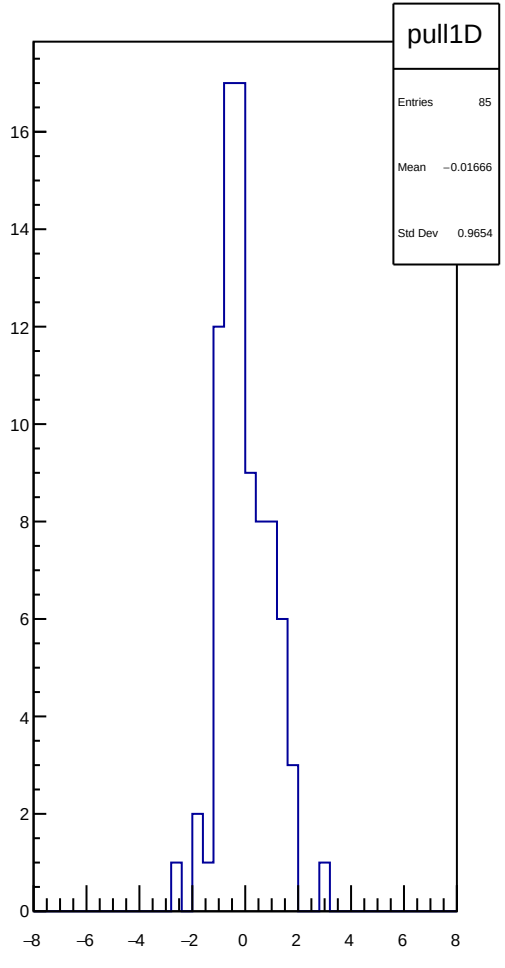

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 9574 / 84
p0 426.3 ± 0.3363
520
500
480
460
440
420
400
380
360

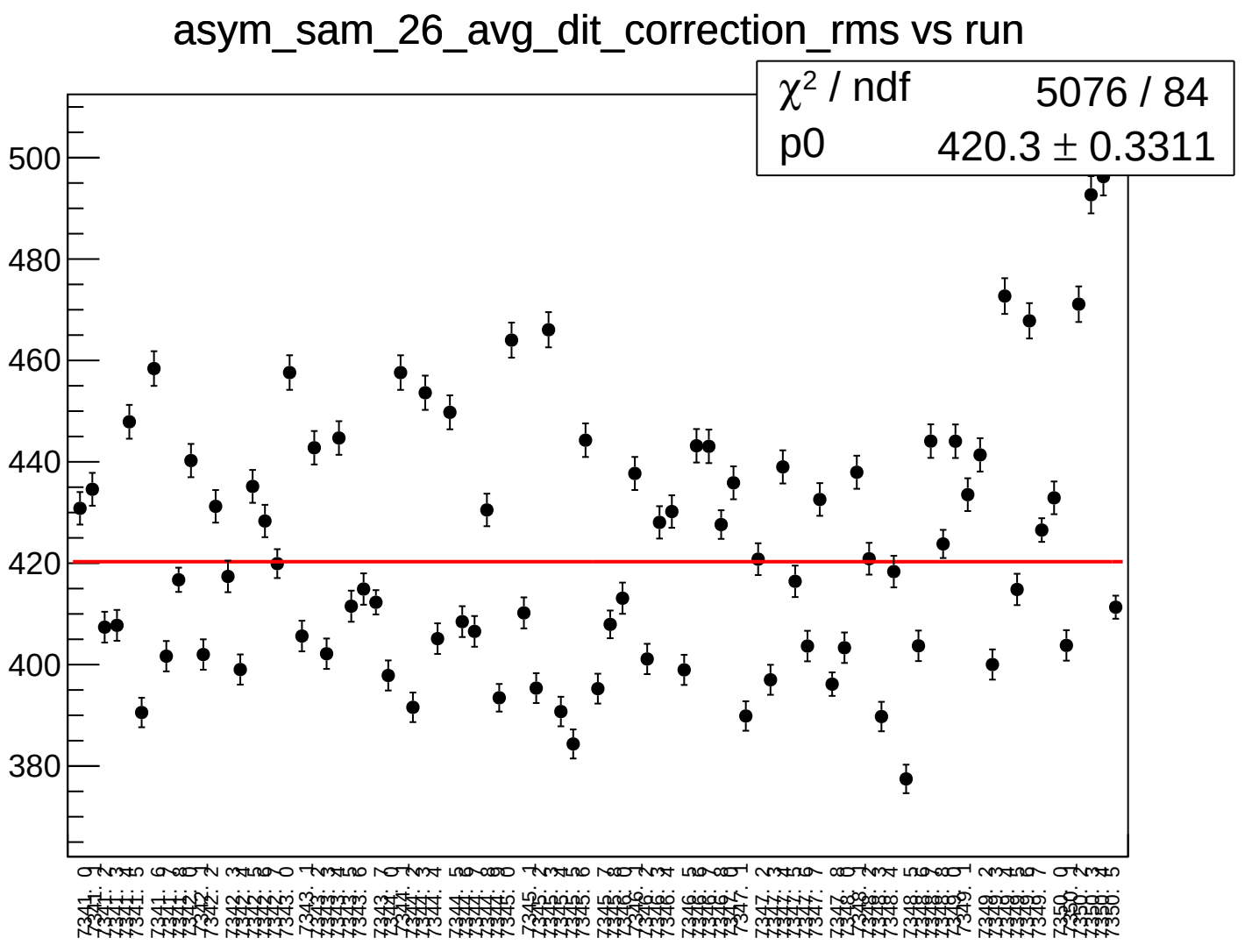

dit_asym_sam_26_avg_mean vs run
χ^2 / ndf 84.92 / 84
p0 53.06 ± 110.2
pull
Entries 85
Mean −16.78
Std Dev 0

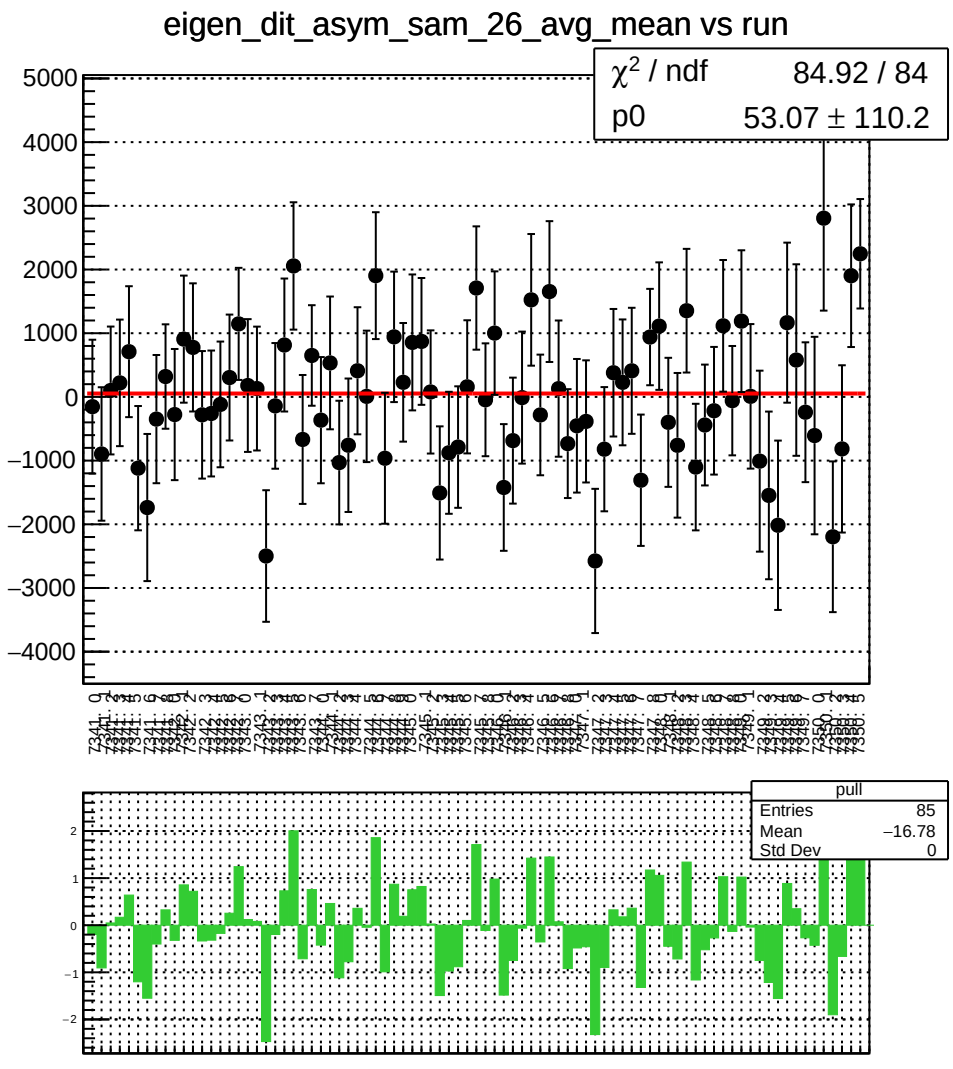

pull1D
Entries 85
Mean −0.0217
Std Dev 0.9993

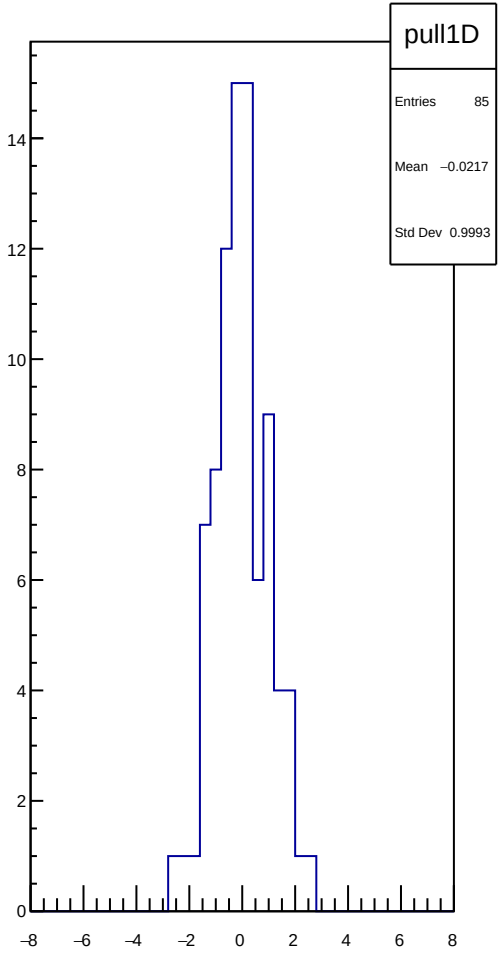

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.694e+04 / 84
p0 98.51 ± 0.07789
150
140
130
120
110
100
90

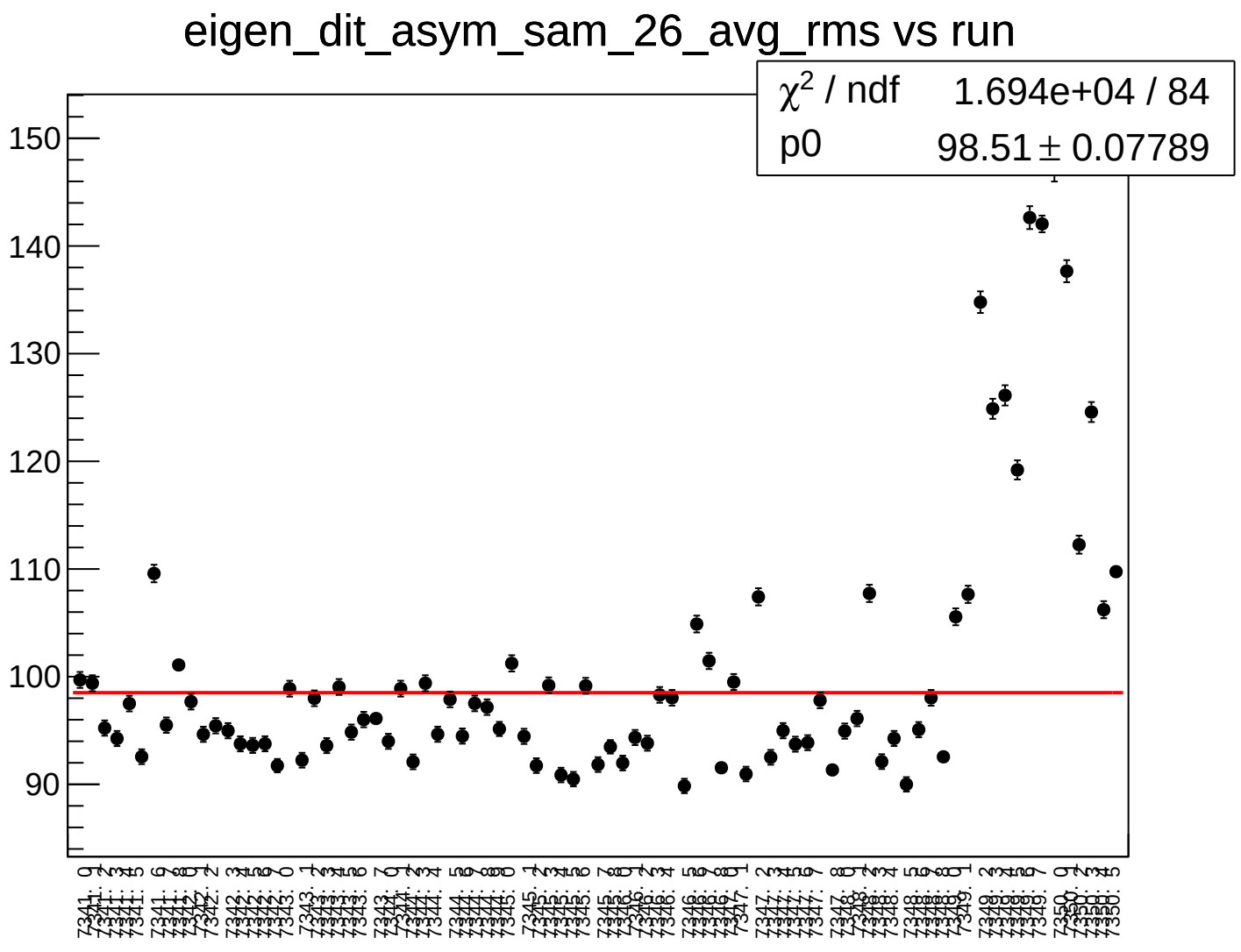

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 79.24 / 84
p0 −240.9 ± 468.3
pull
Entries 85
Mean −198.2
Std Dev 0

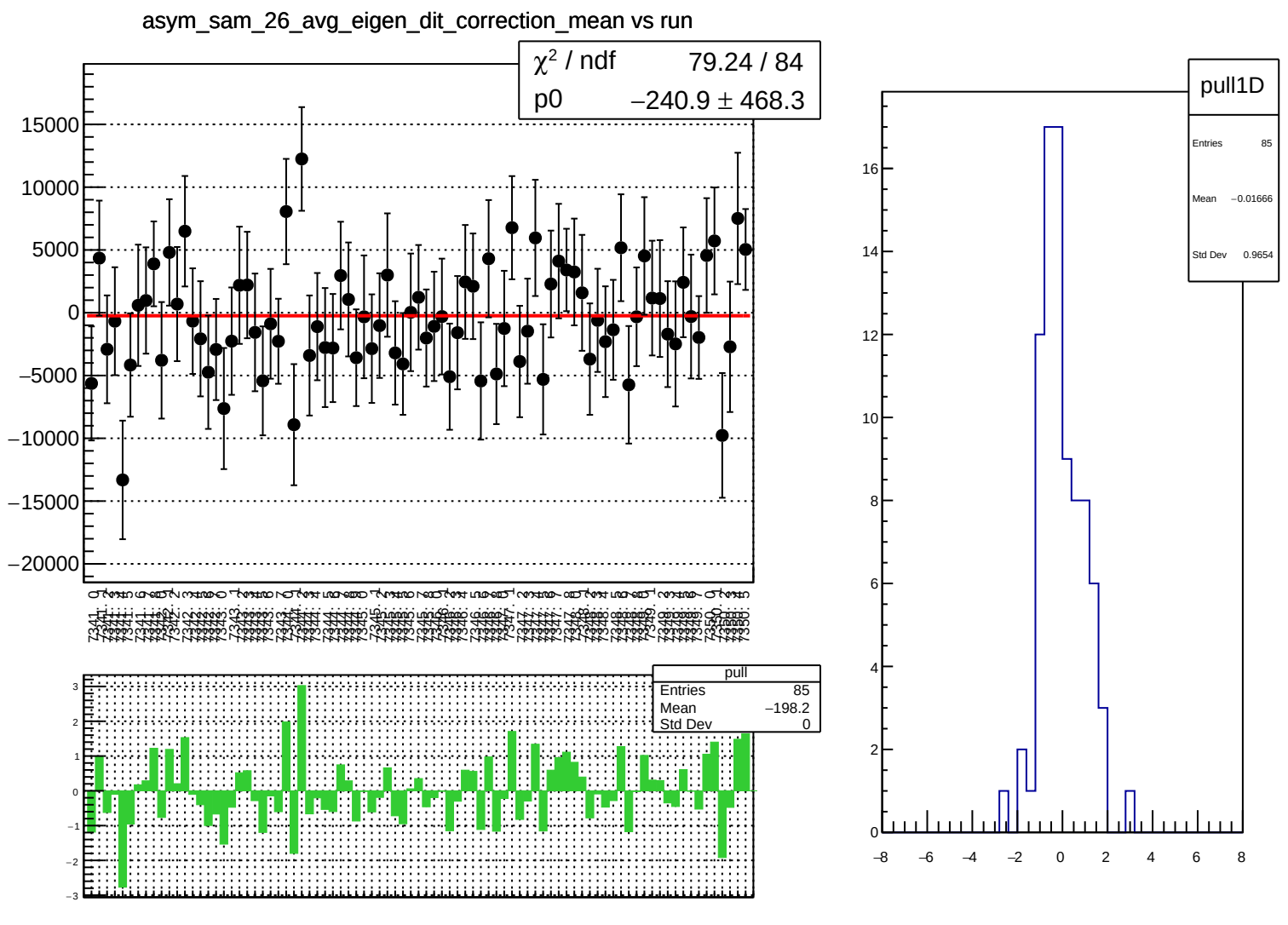

pull1D
Entries 85
Mean −0.01666
Std Dev 0.9654

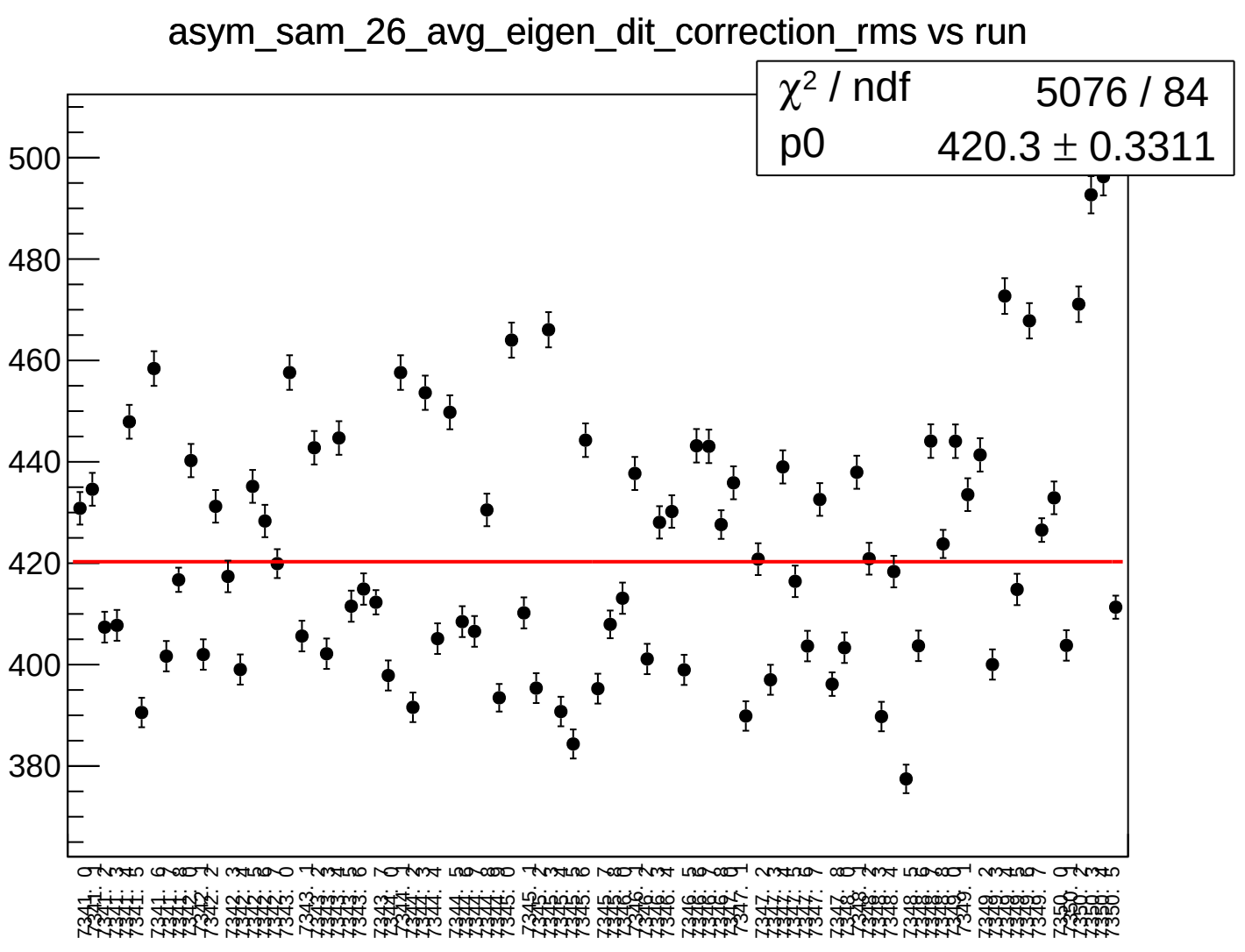

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 5076 / 84
p0 420.3 ± 0.3311
500
480
460
440
420
400
380

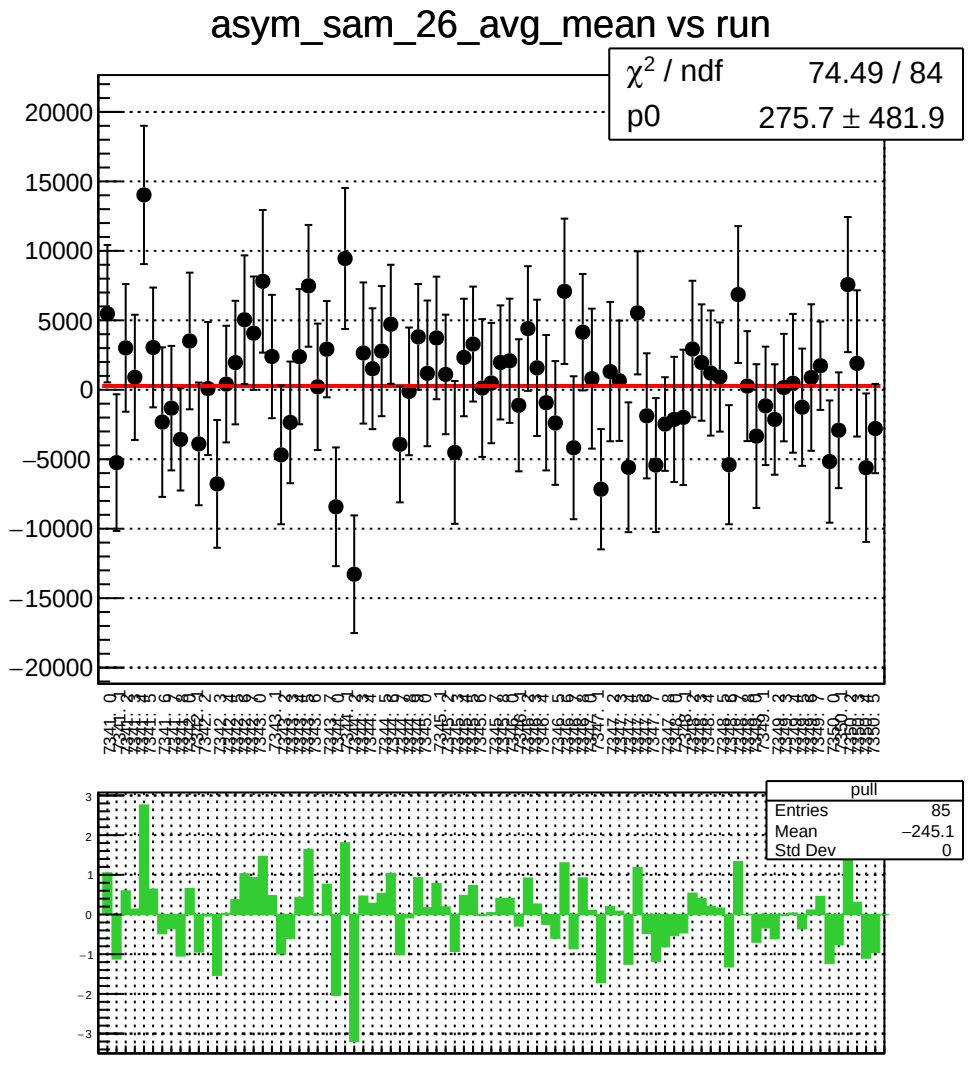

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 84.92 / 84
p0 53.07 ± 110.2
pull
Entries 85
Mean −16.78
Std Dev 0

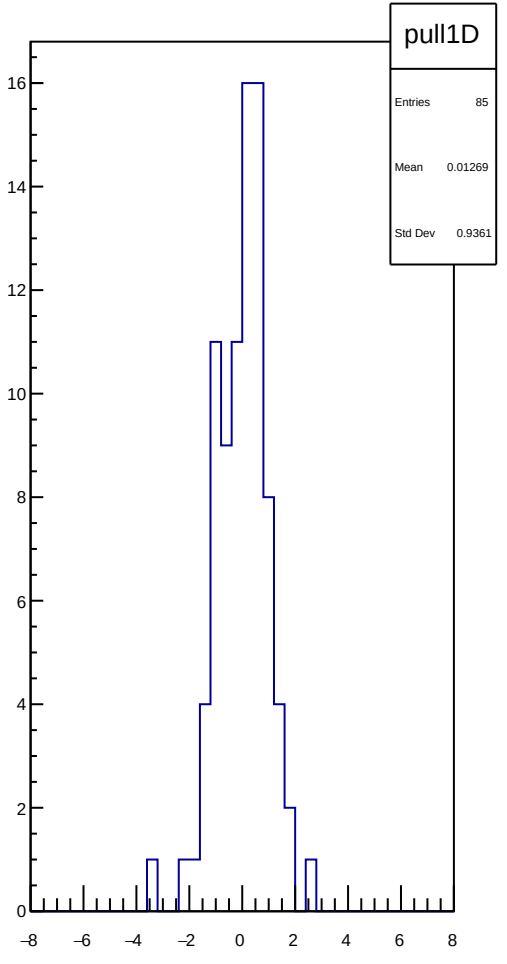

pull1D
Entries 85
Mean −0.0217
Std Dev 0.9993

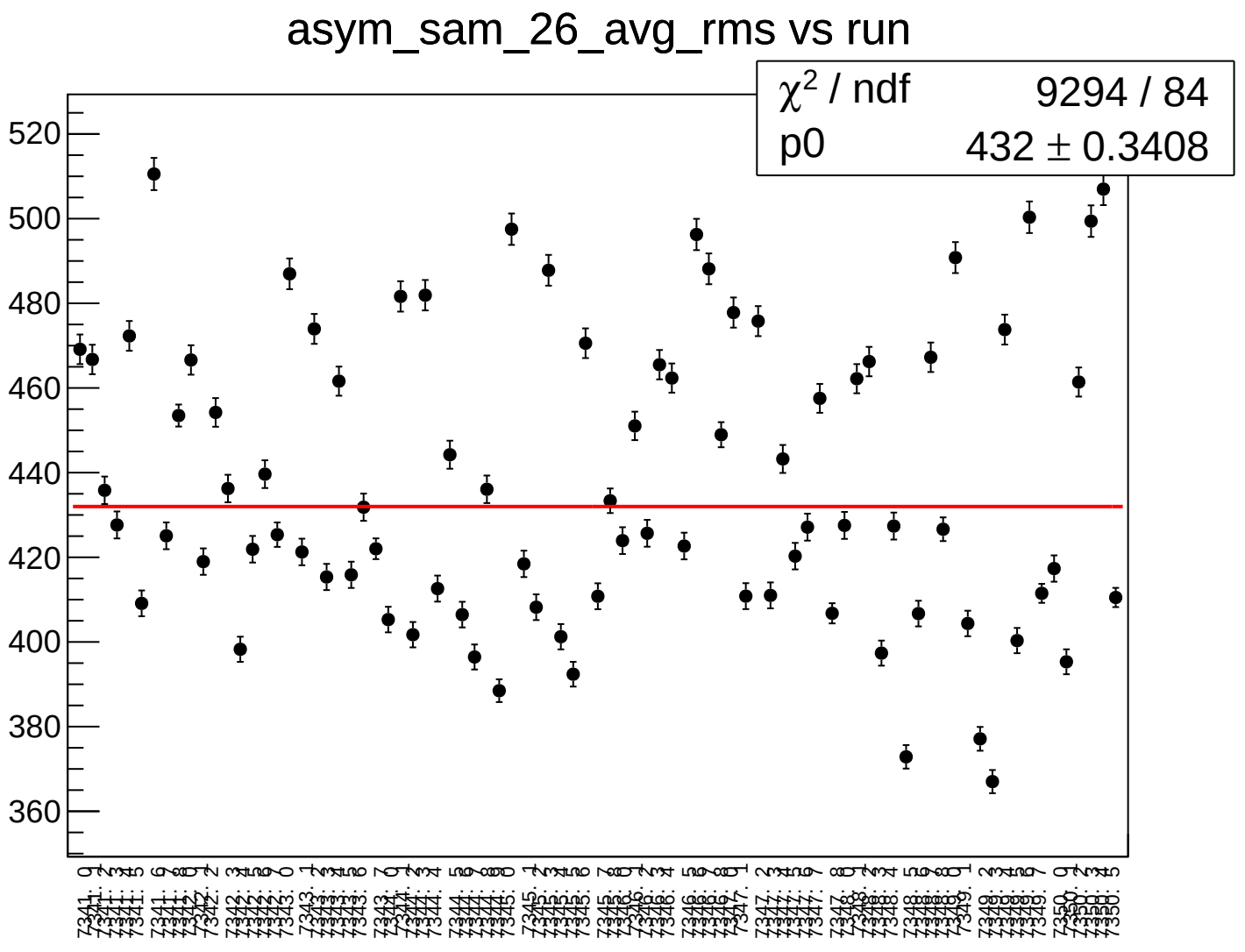

eigen_dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.694e+04 / 84
p0 98.51 ± 0.07789
150
140
130
120
110
100
90

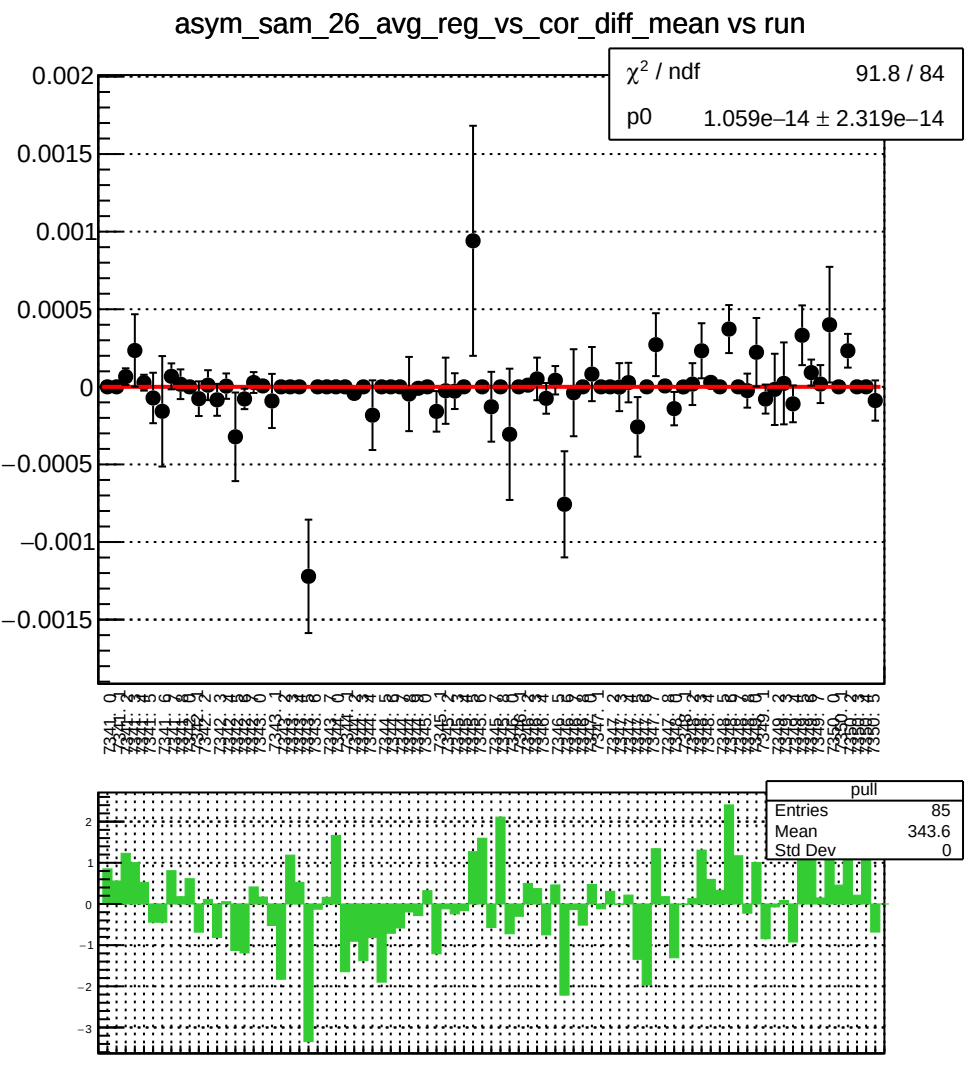

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.24 / 84
p0 −240.9 ± 468.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 85
Mean −198.2
Std Dev 0
pull1D
Entries 85
Mean −0.01666
Std Dev 0.9654

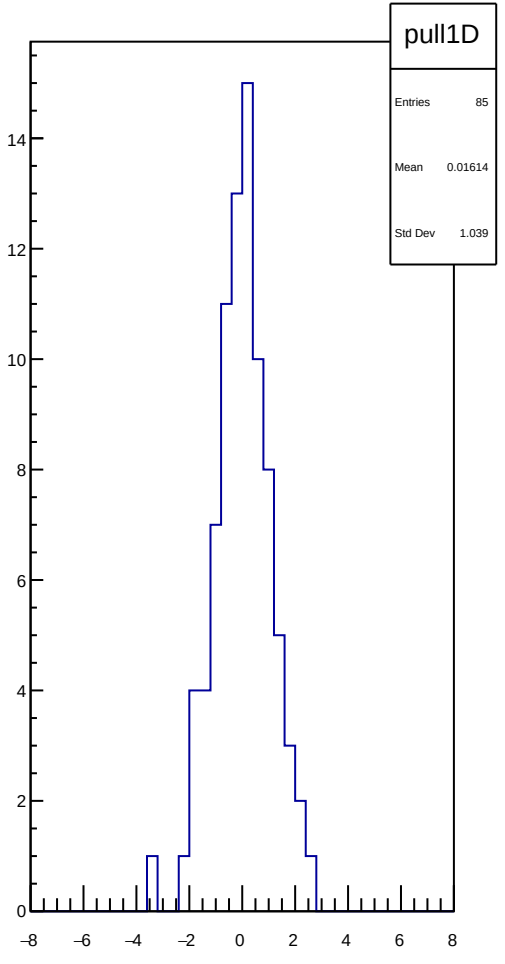

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 5076 / 84
p0 420.3 ± 0.3311
500
480
460
440
420
400
380

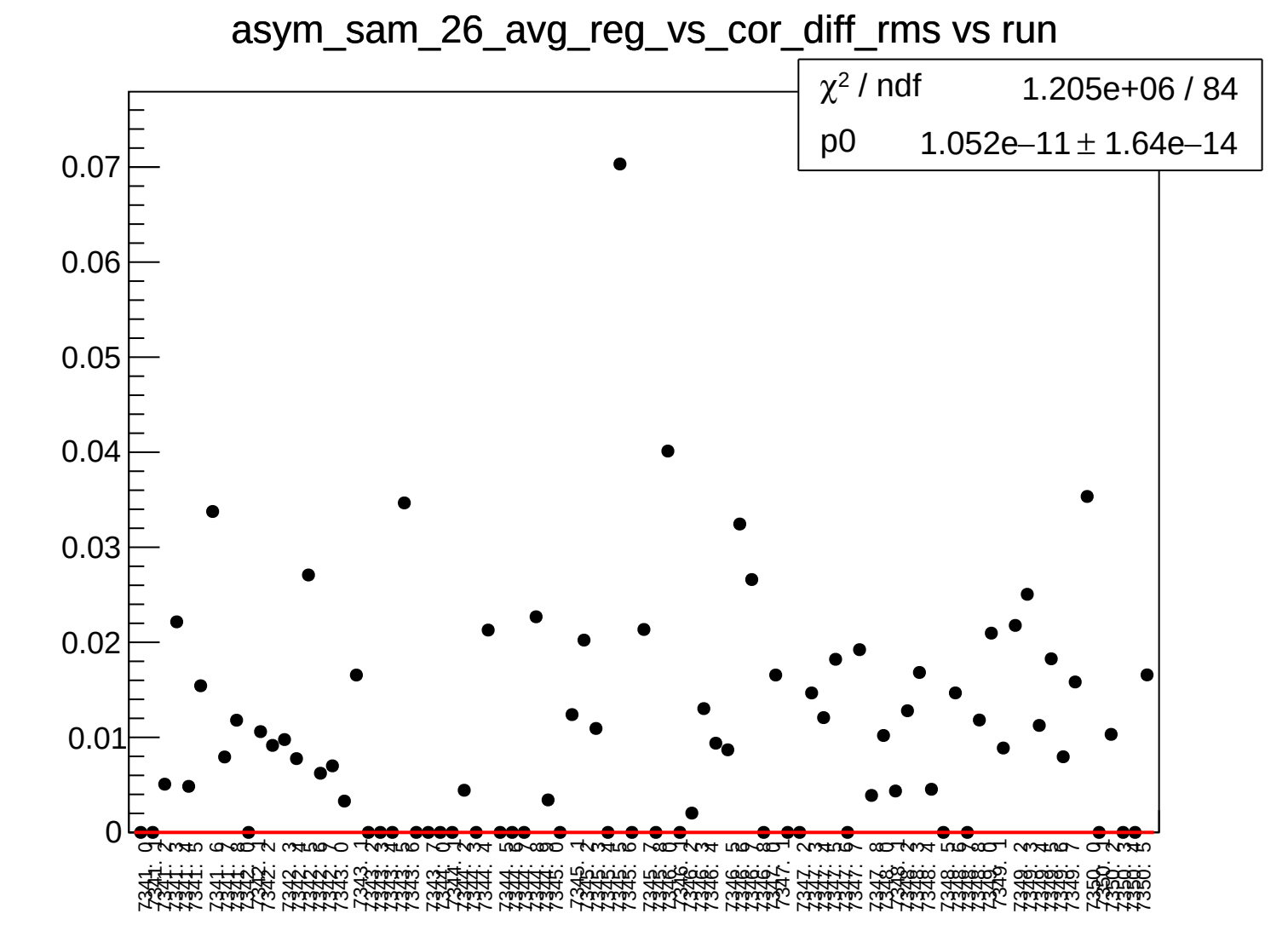

asym_sam_26_avg_mean vs run
χ² / ndf 74.49 / 84
p0 275.7 ± 481.9
pull
Entries 85
Mean −245.1
Std Dev 0

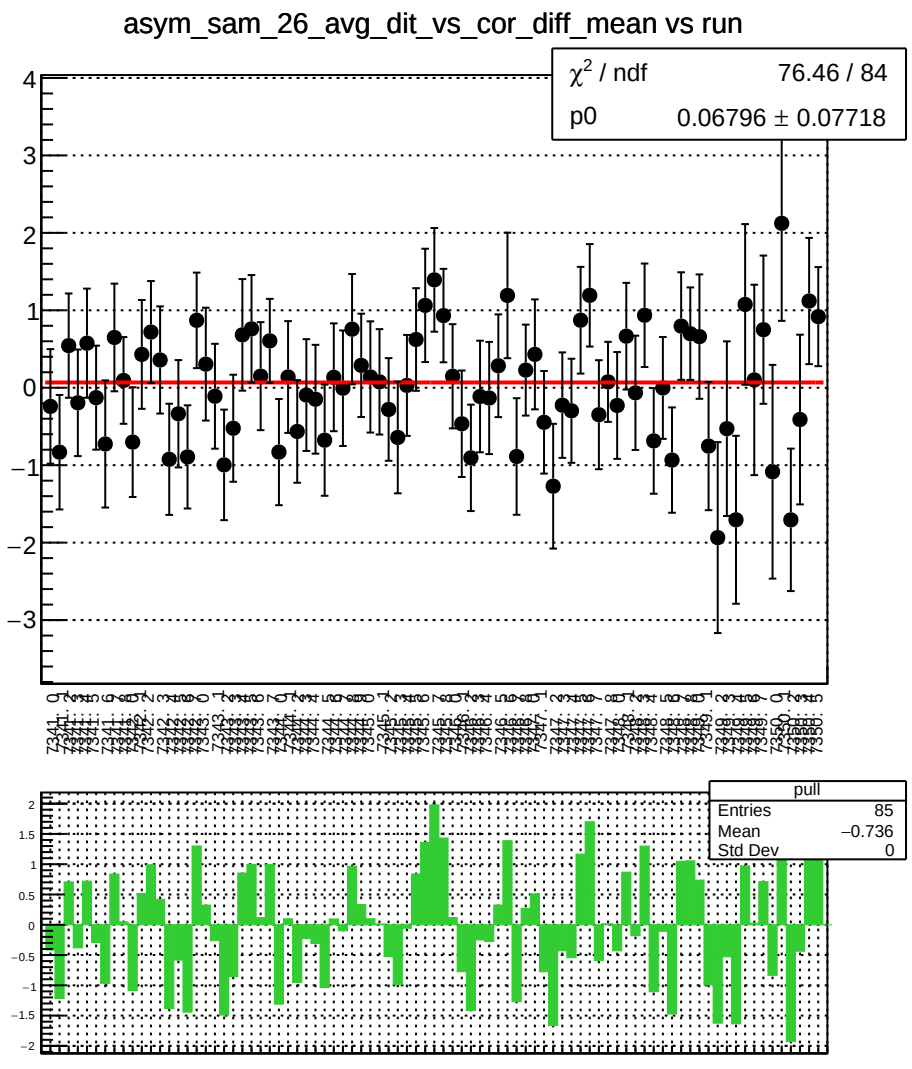

pull1D
Entries 85
Mean 0.01269
Std Dev 0.9361

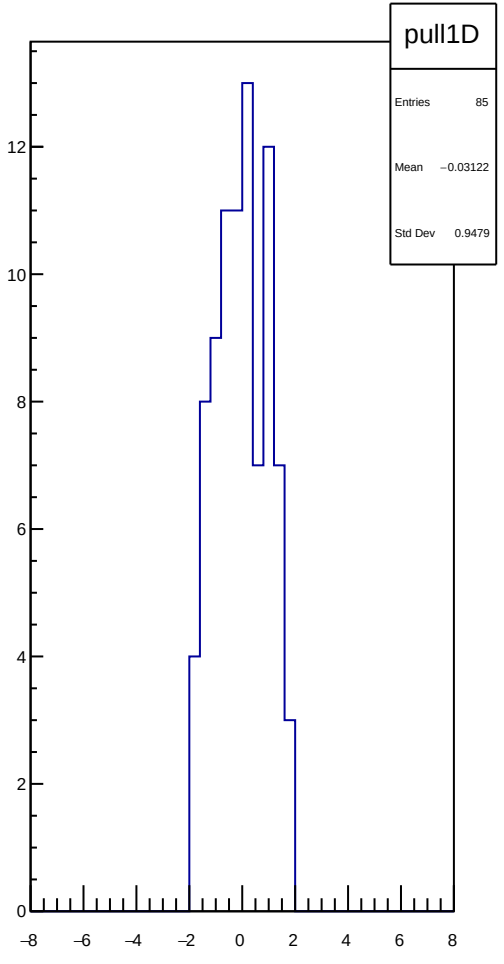

asym_sam_26_avg_rms vs run
χ^2 / ndf 9294 / 84
p0 432 ± 0.3408
520
500
480
460
440
420
400
380
360

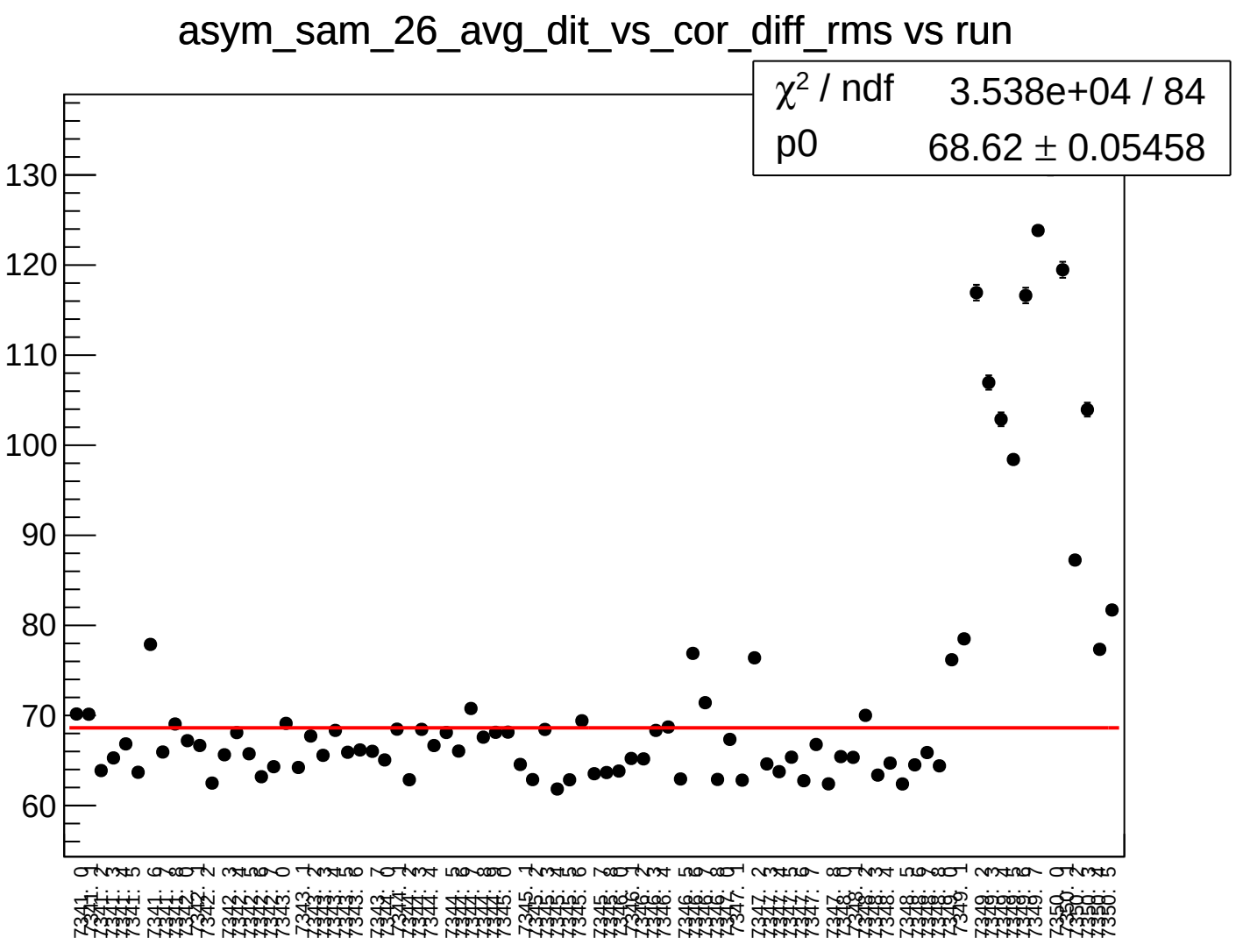

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.8 / 84
p0 1.059e−14 ± 2.319e−14
pull
Entries 85
Mean 343.6
Std Dev 0

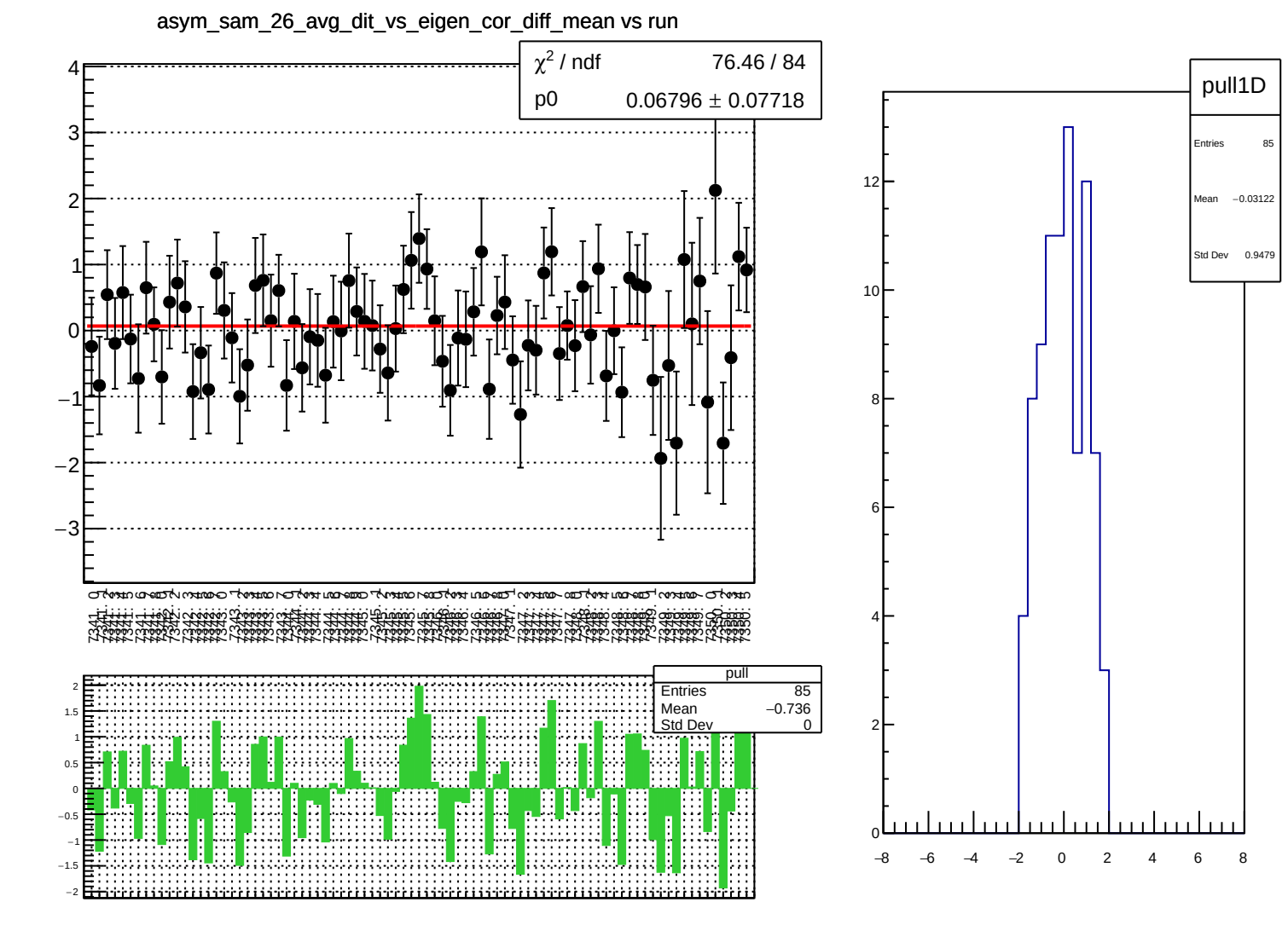

pull1D
Entries 85
Mean 0.01614
Std Dev 1.039

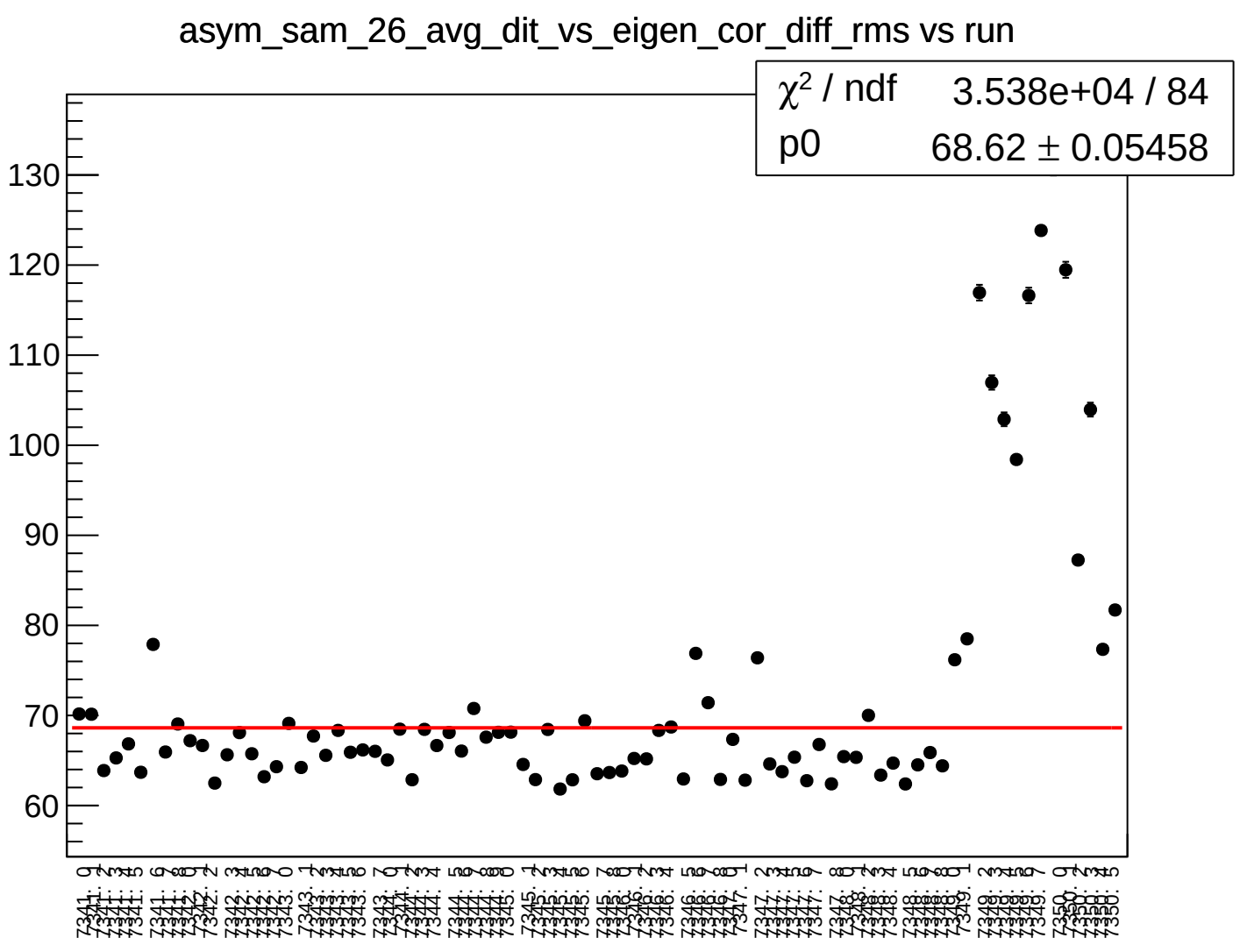

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.205e+06 / 84
p0 1.052e−11 ± 1.64e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

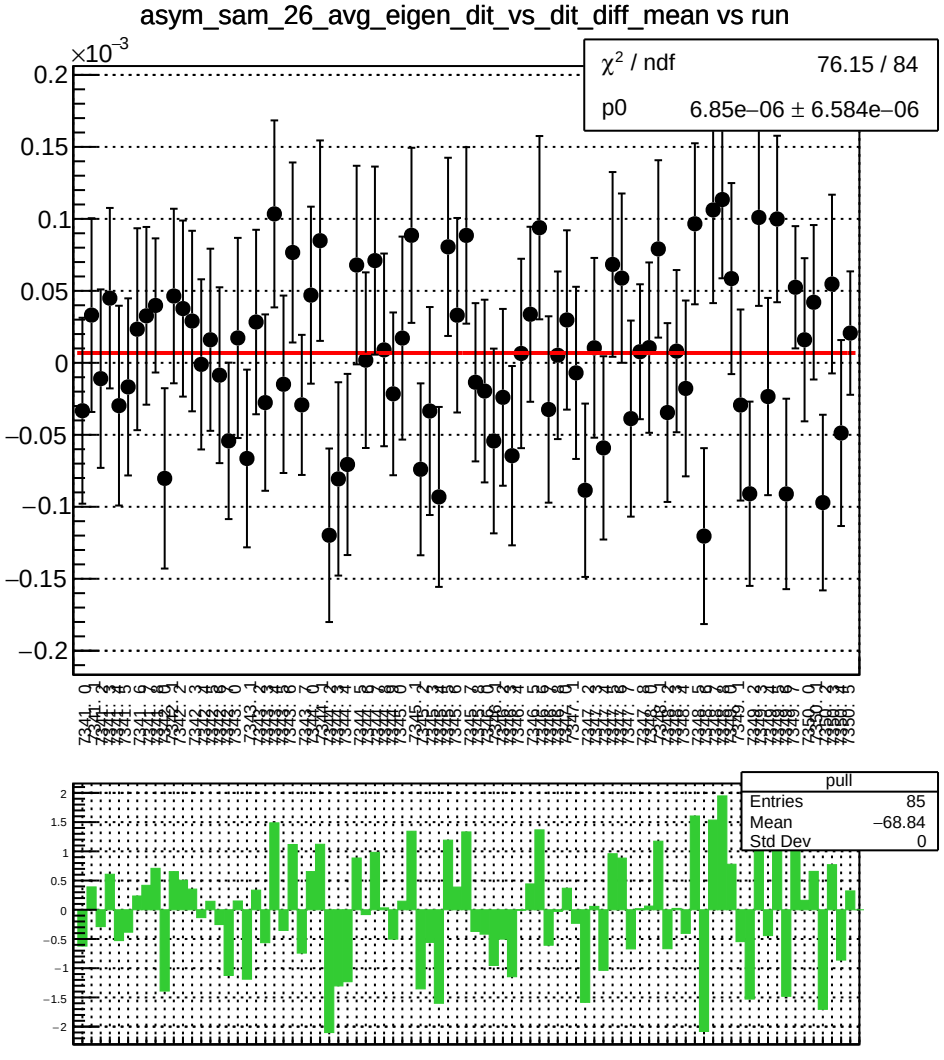

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.46 / 84
p0 0.06796 ± 0.07718
pull
Entries 85
Mean −0.736
Std Dev 0

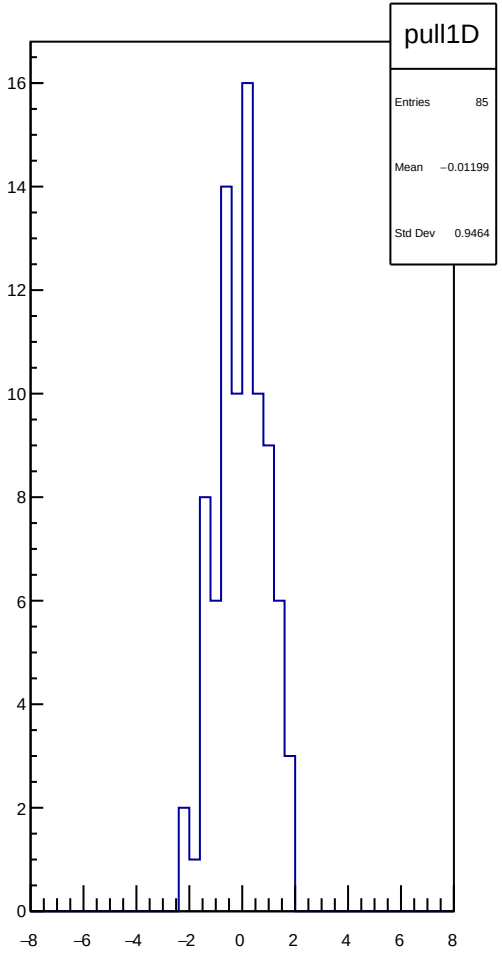

pull1D
Entries 85
Mean −0.03122
Std Dev 0.9479

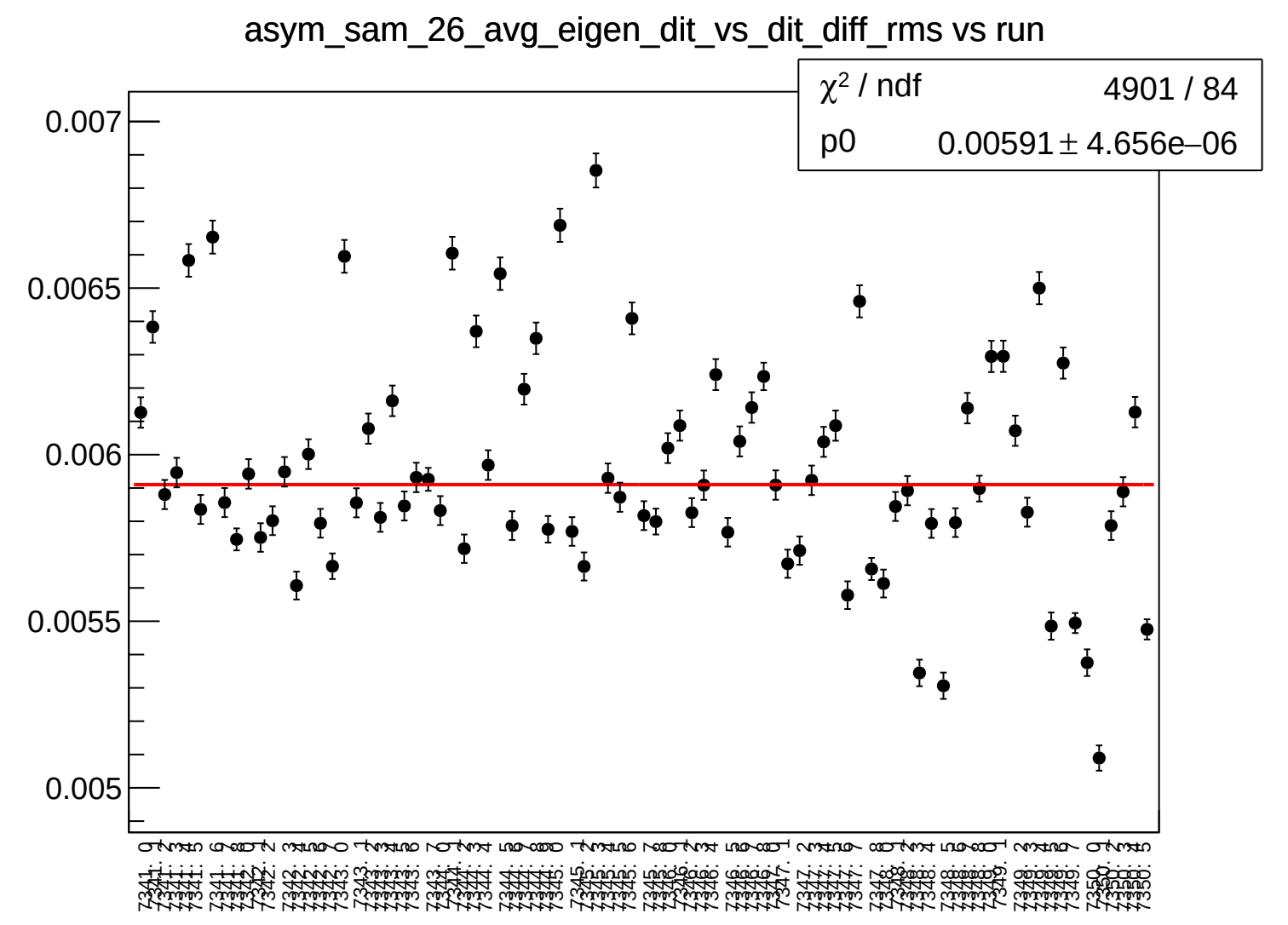

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.538e+04 / 84
p0 68.62 ± 0.05458
130
120
110
100
90
80
70
60

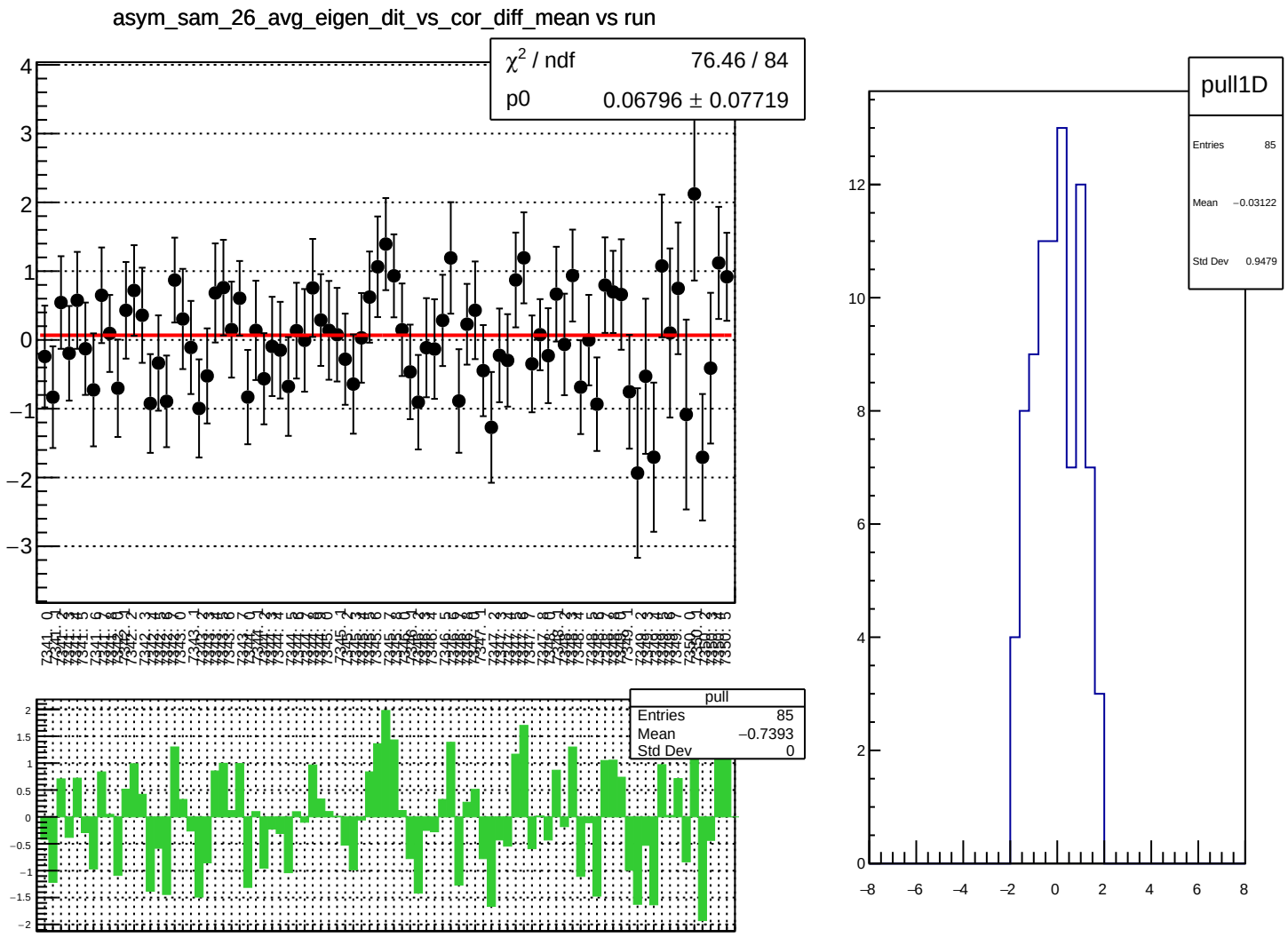

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.46 / 84
p0 0.06796 ± 0.07718
pull
Entries 85
Mean −0.736
Std Dev 0
pull1D
Entries 85
Mean −0.03122
Std Dev 0.9479

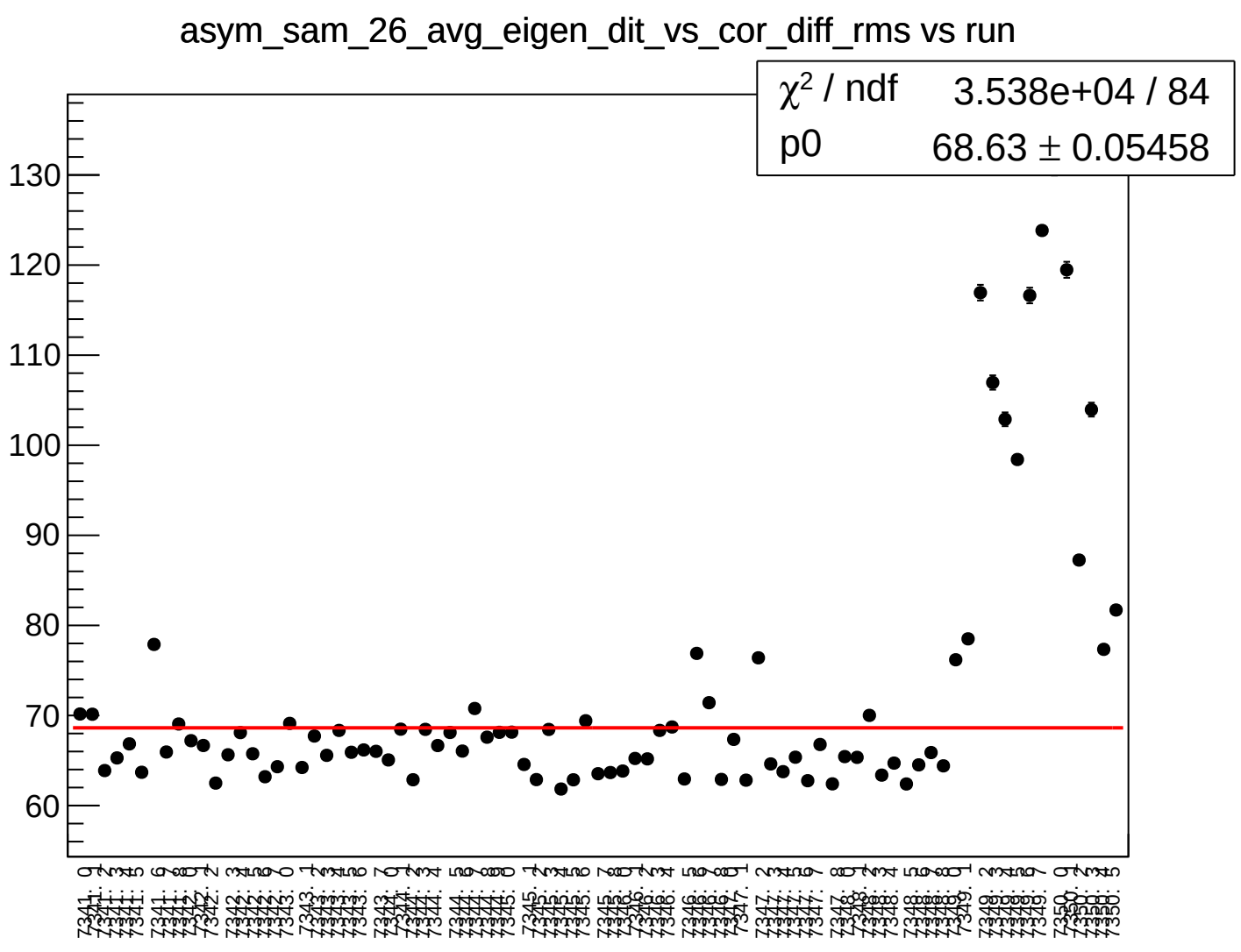

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.538e+04 / 84
p0 68.62 ± 0.05458
130
120
110
100
90
80
70
60

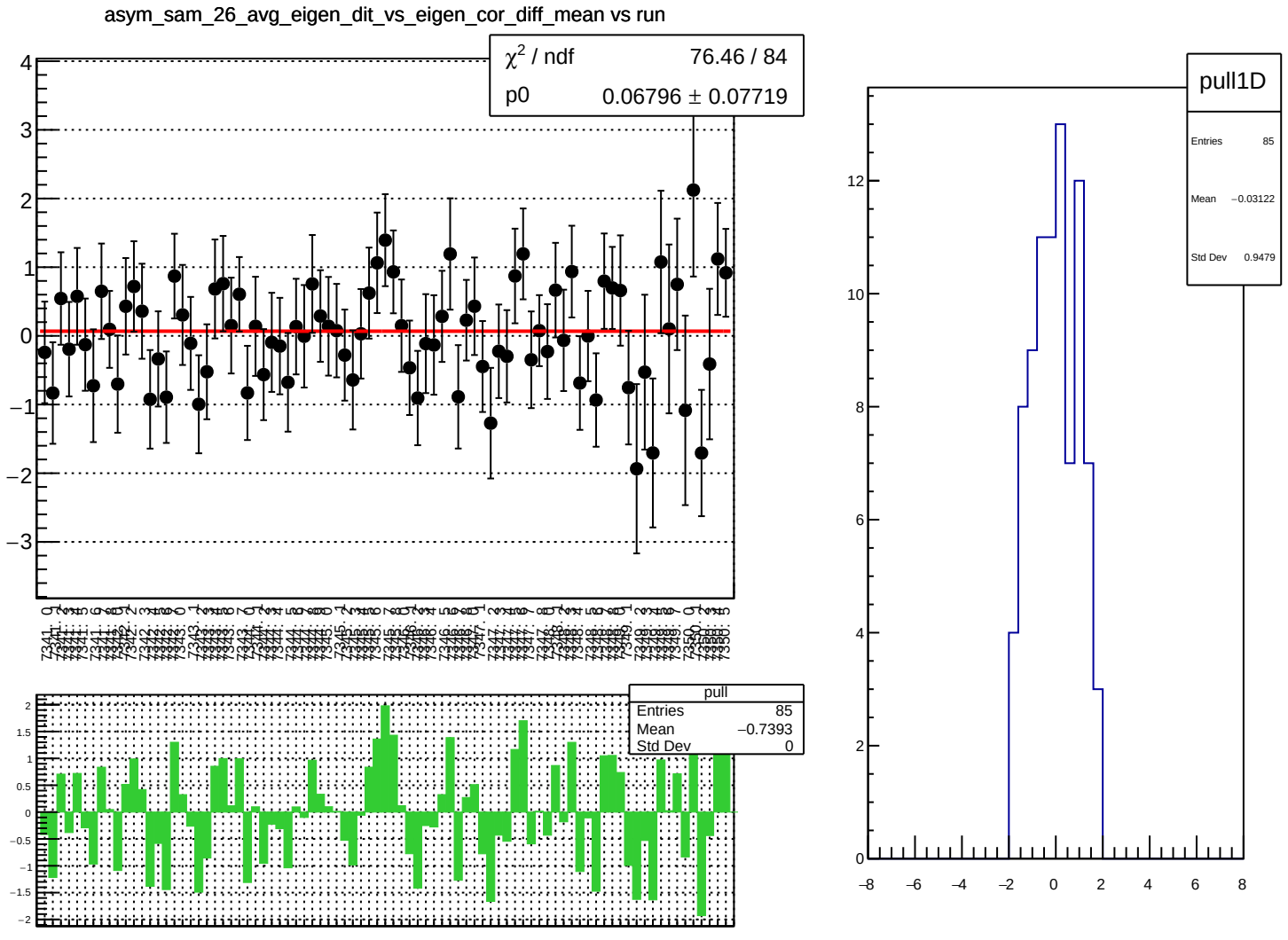

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.15 / 84
p0 6.85e−06 ± 6.584e−06
pull
Entries 85
Mean −68.84
Std Dev 0

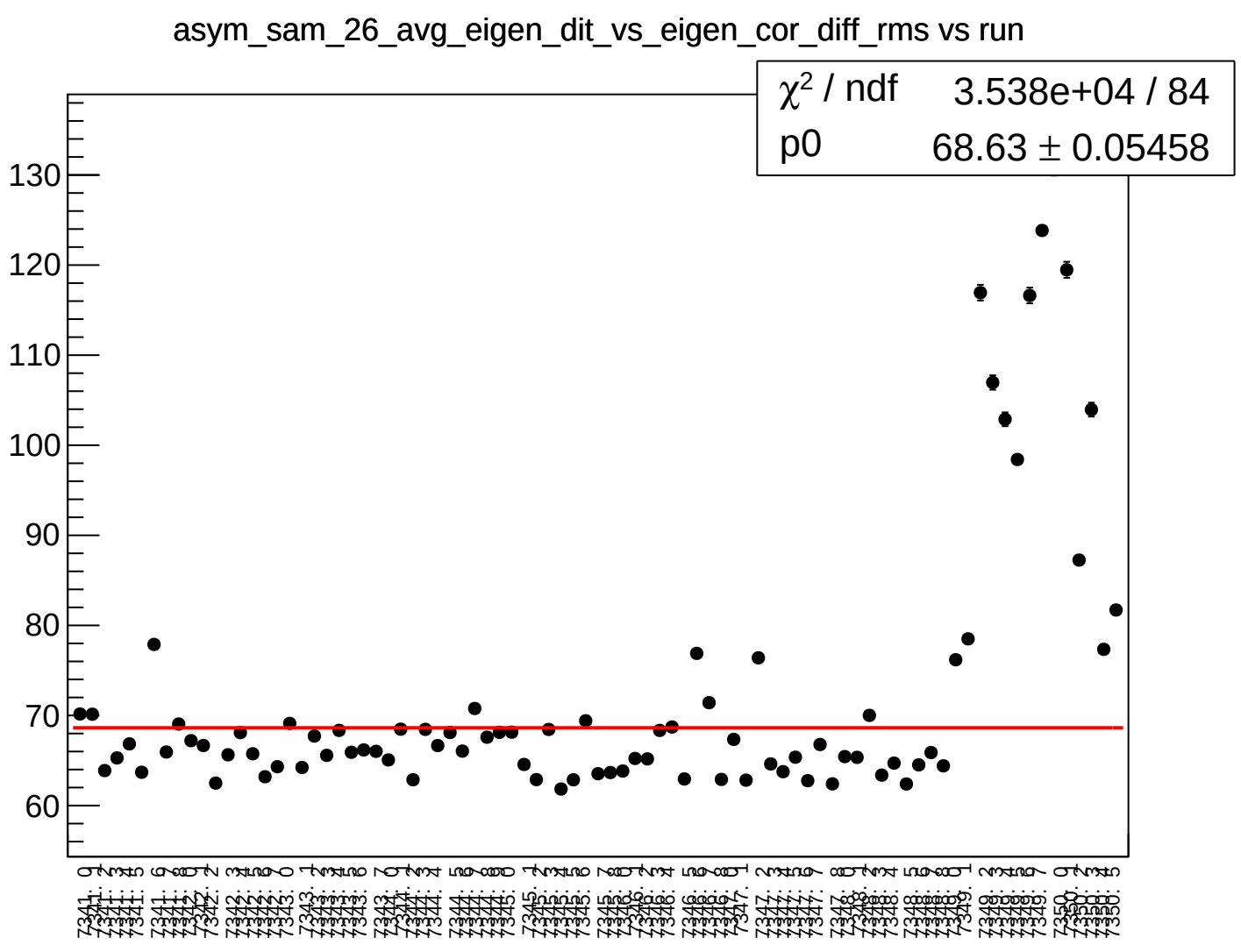

pull1D
Entries 85
Mean −0.01199
Std Dev 0.9464

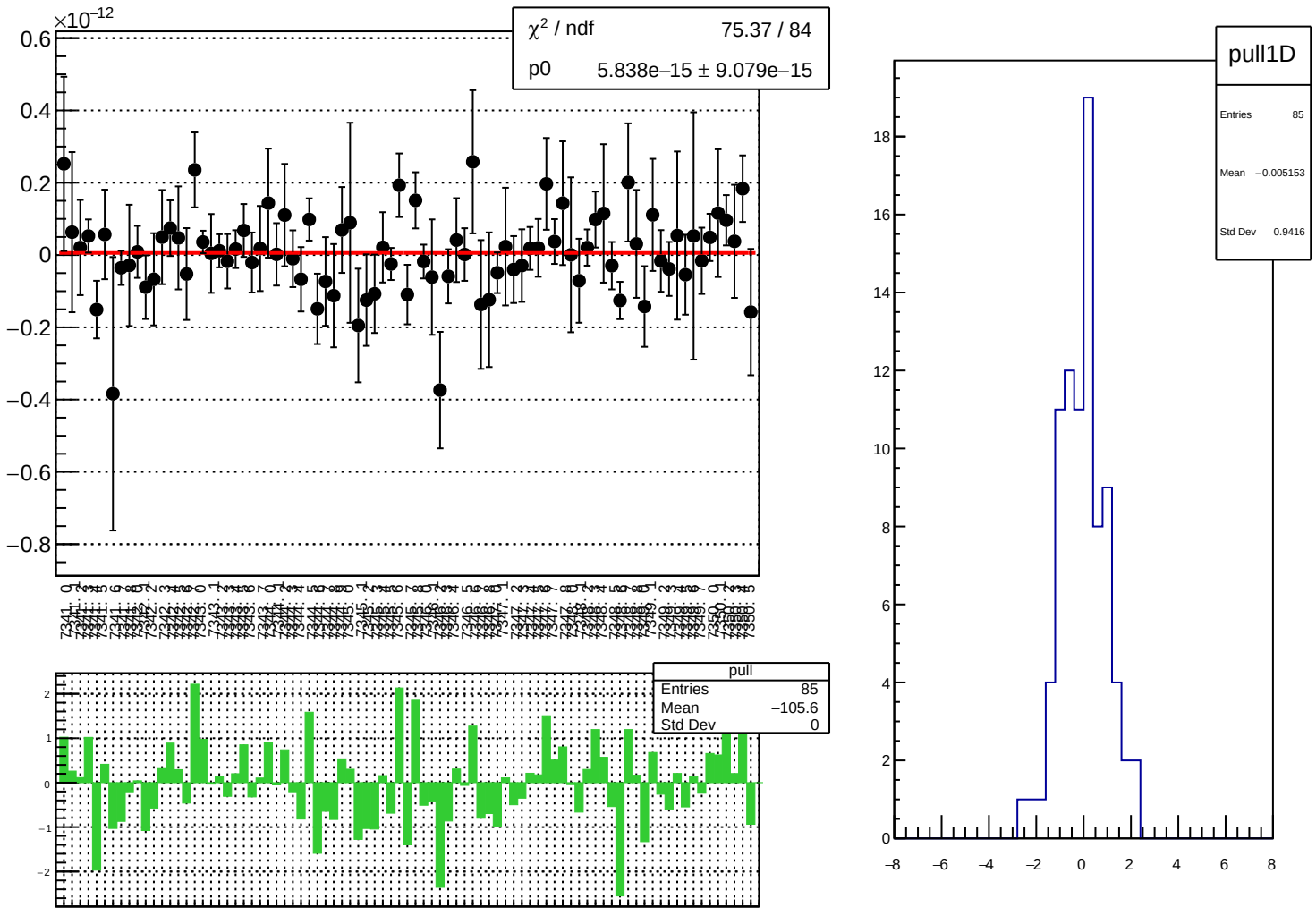

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4901 / 84
p0 0.00591 ± 4.656e−06
0.007
0.0065
0.006
0.0055
0.005

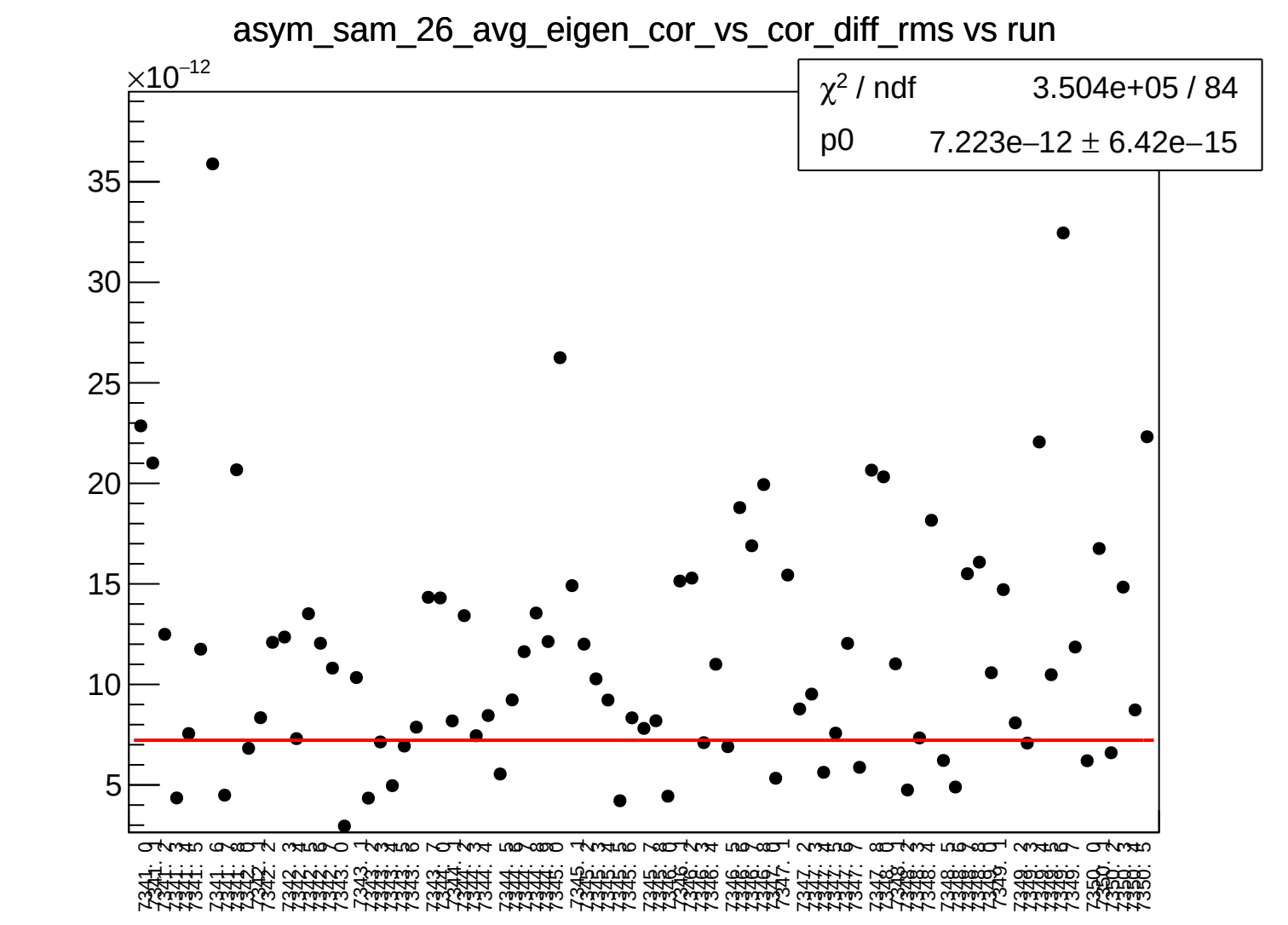

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.46 / 84
p0 0.06796 ± 0.07719
pull
Entries 85
Mean −0.7393
Std Dev 0
pull1D
Entries 85
Mean −0.03122
Std Dev 0.9479

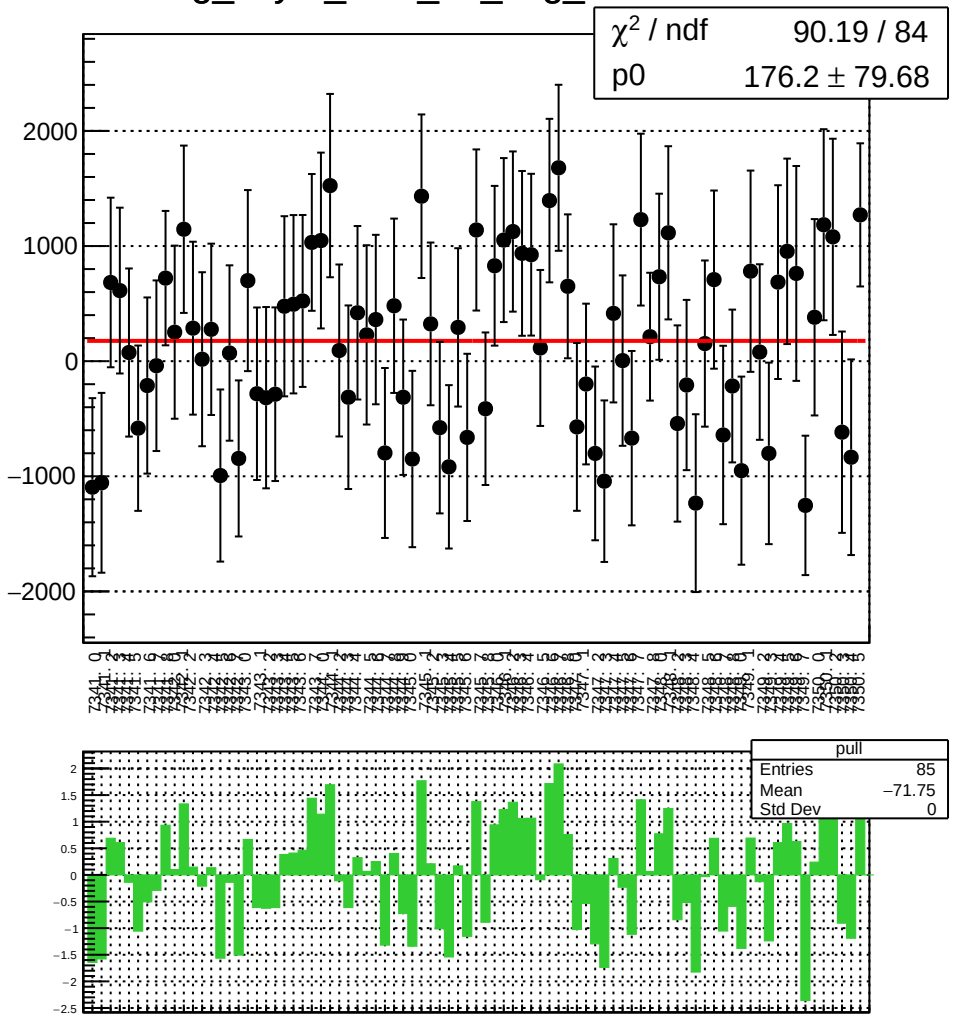

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.538e+04 / 84
p0 68.63 ± 0.05458
130
120
110
100
90
80
70
60

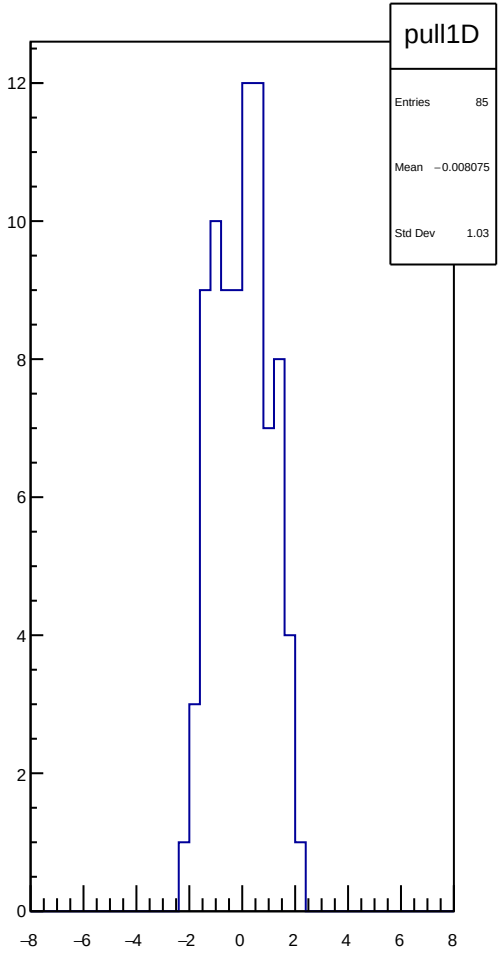

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.46 / 84
p0 0.06796 ± 0.07719
pull
Entries 85
Mean −0.7393
Std Dev 0
pull1D
Entries 85
Mean −0.03122
Std Dev 0.9479

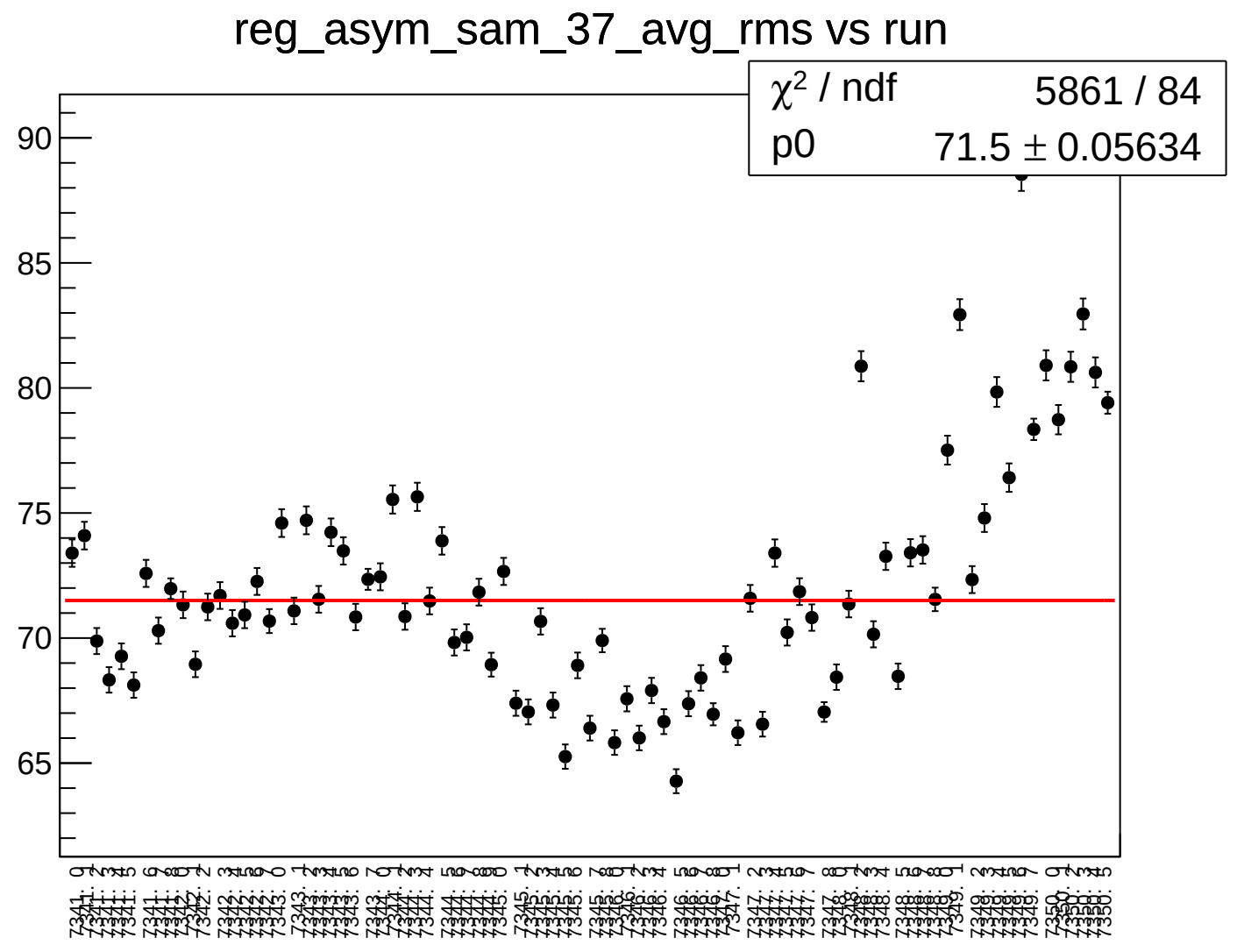

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.538e+04 / 84
p0 68.63 ± 0.05458
130
120
110
100
90
80
70
60

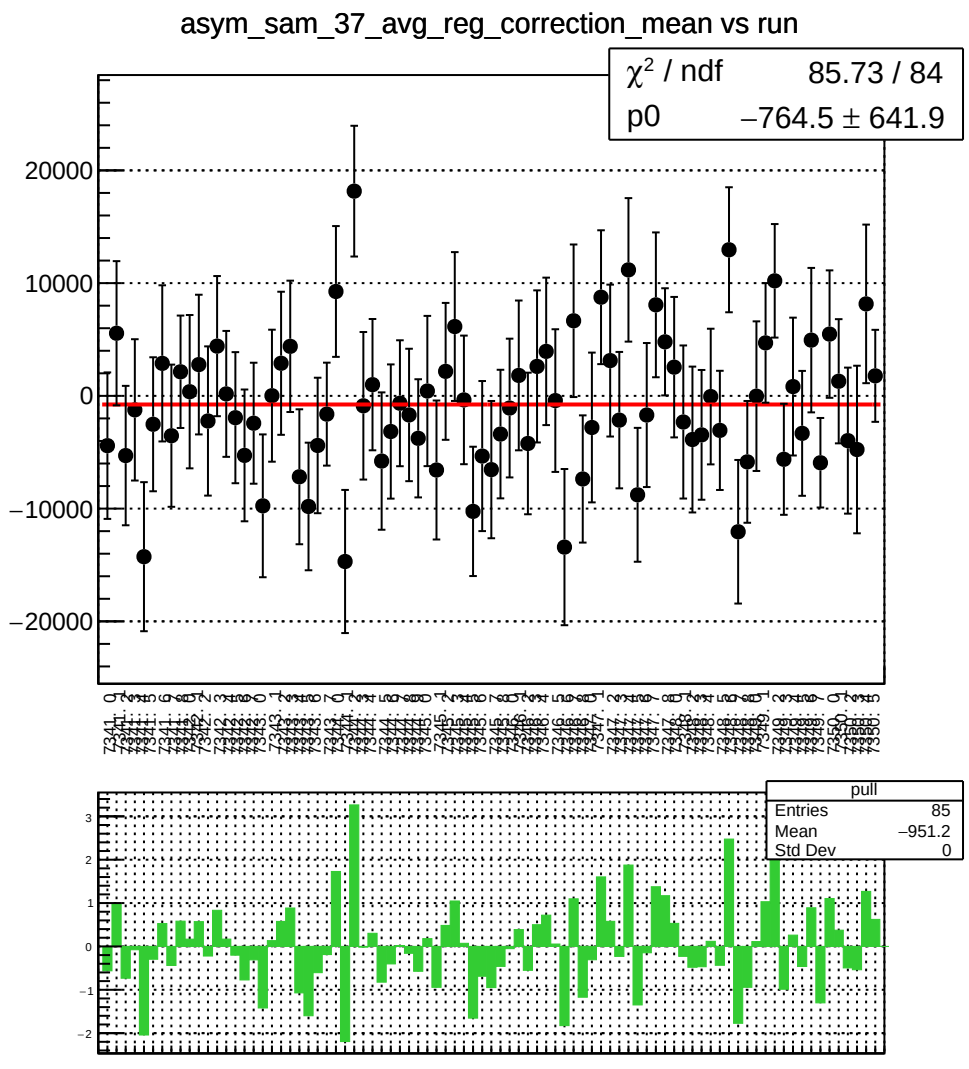

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.37 / 84
p0 5.838e−15 ± 9.079e−15
pull
Entries 85
Mean −105.6
Std Dev 0
pull1D
Entries 85
Mean −0.005153
Std Dev 0.9416

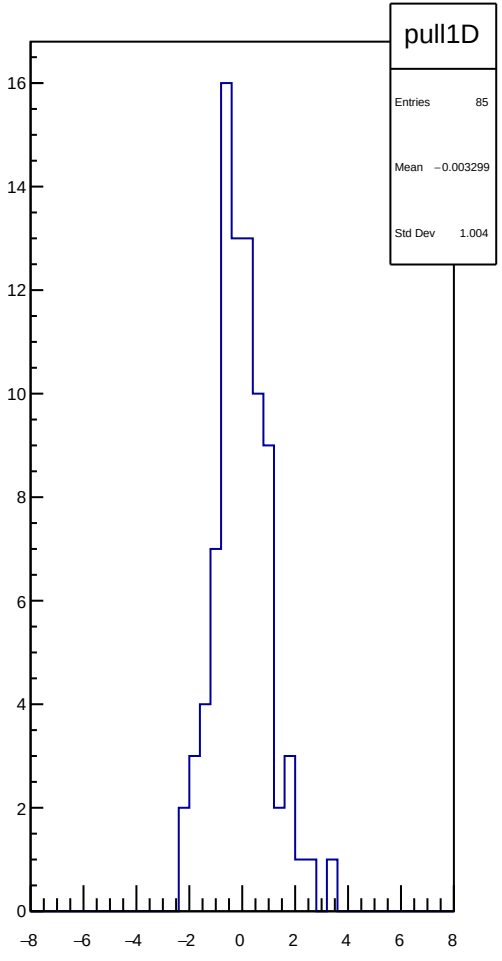

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.504e+05 / 84
p0 7.223e−12 ± 6.42e−15
35
30
25
20
15
10
5

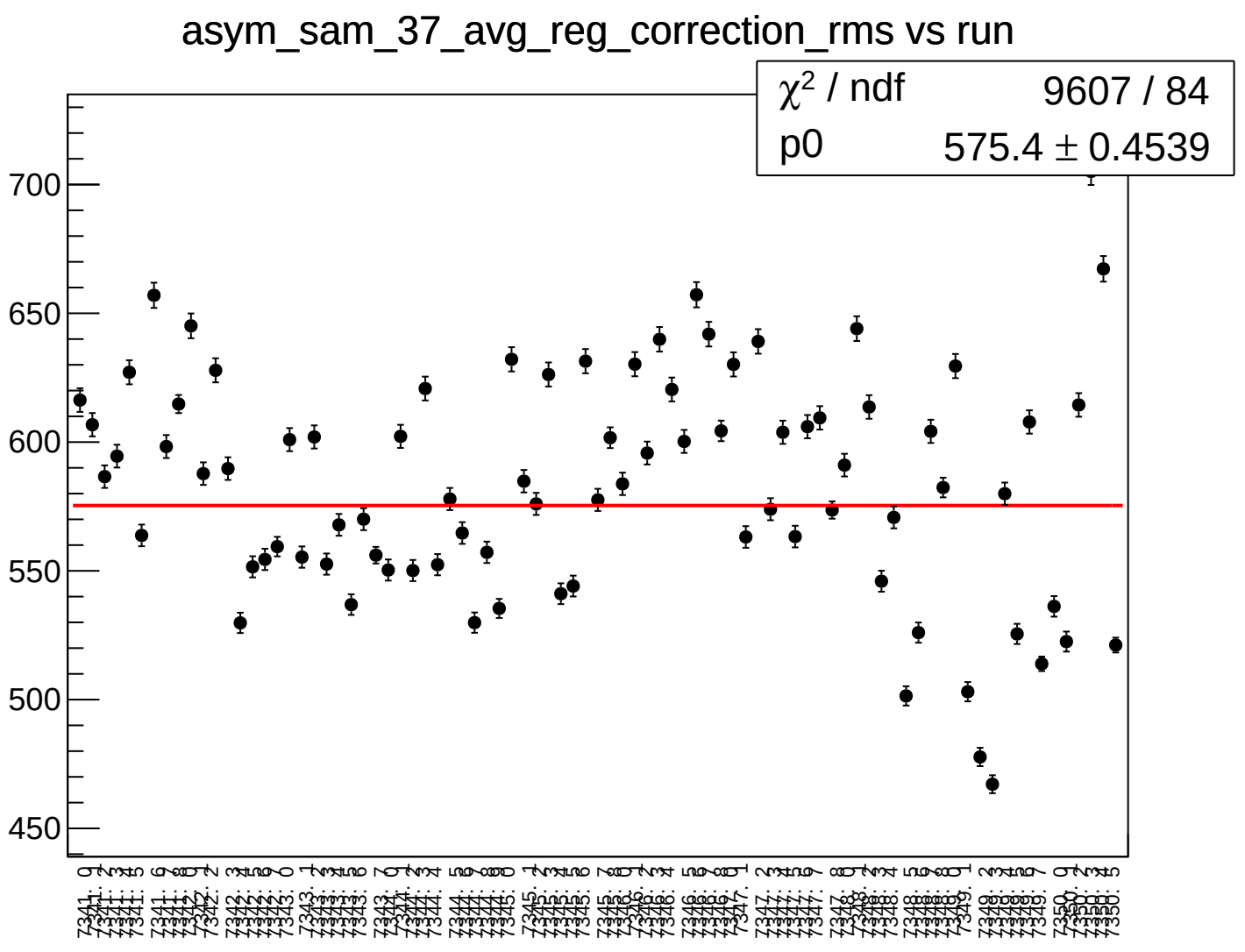

reg_asym_sam_37_avg_mean vs run
χ² / ndf 90.19 / 84
p0 176.2 ± 79.68
pull
Entries 85
Mean −71.75
Std Dev 0

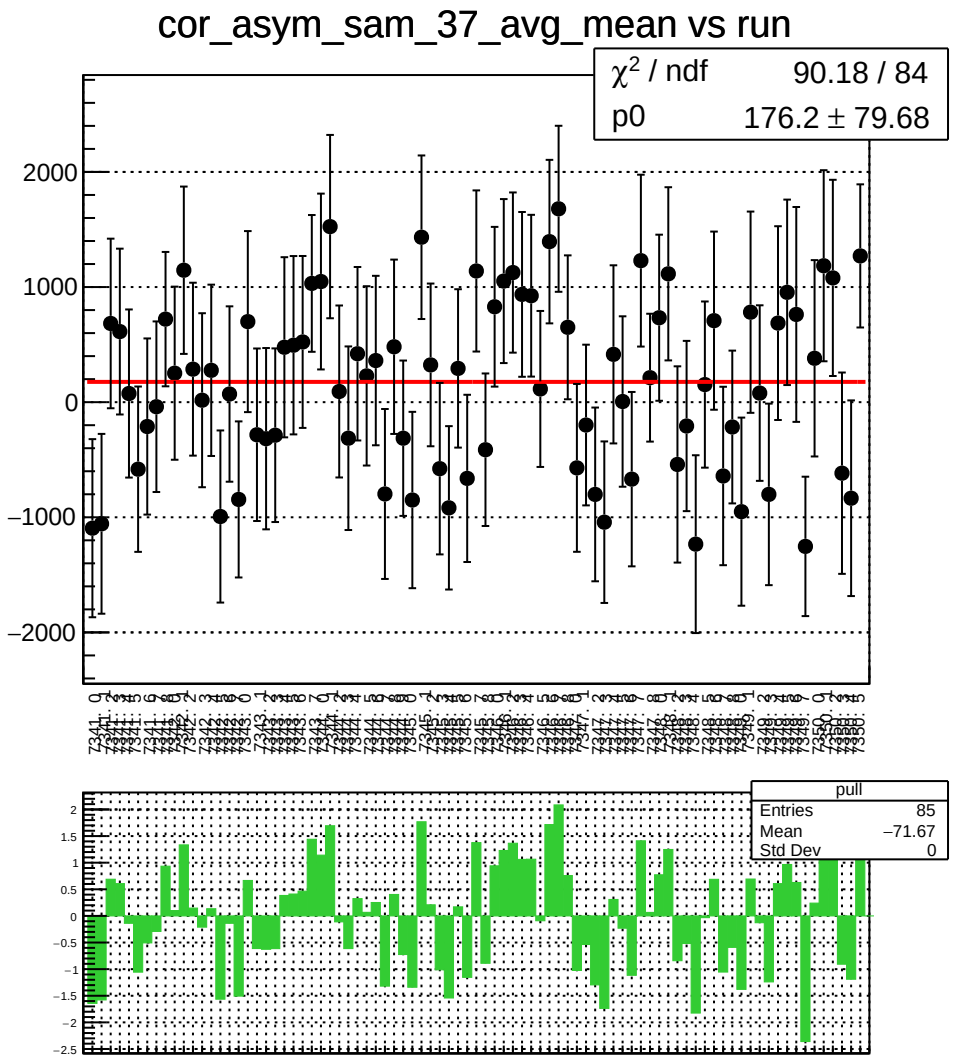

pull1D
Entries 85
Mean −0.008075
Std Dev 1.03

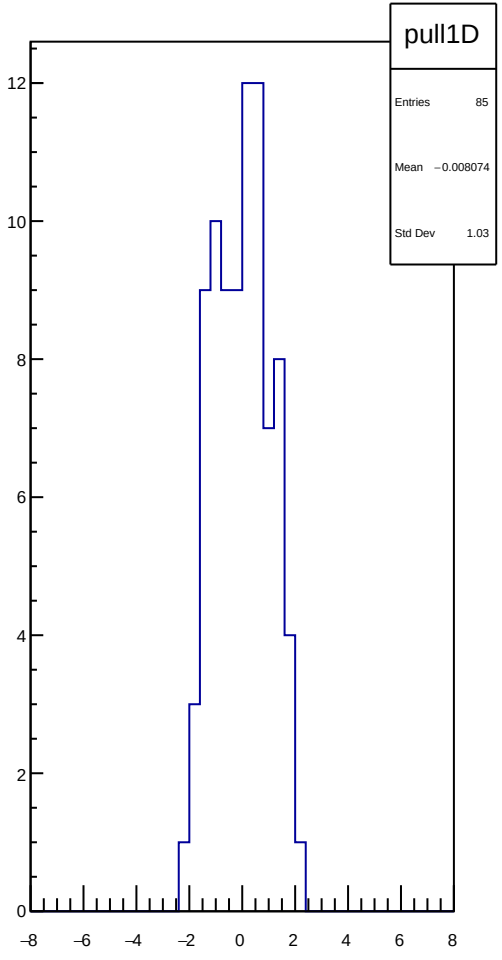

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 5861 / 84
p0 71.5 ± 0.05634
90
85
80
75
70
65

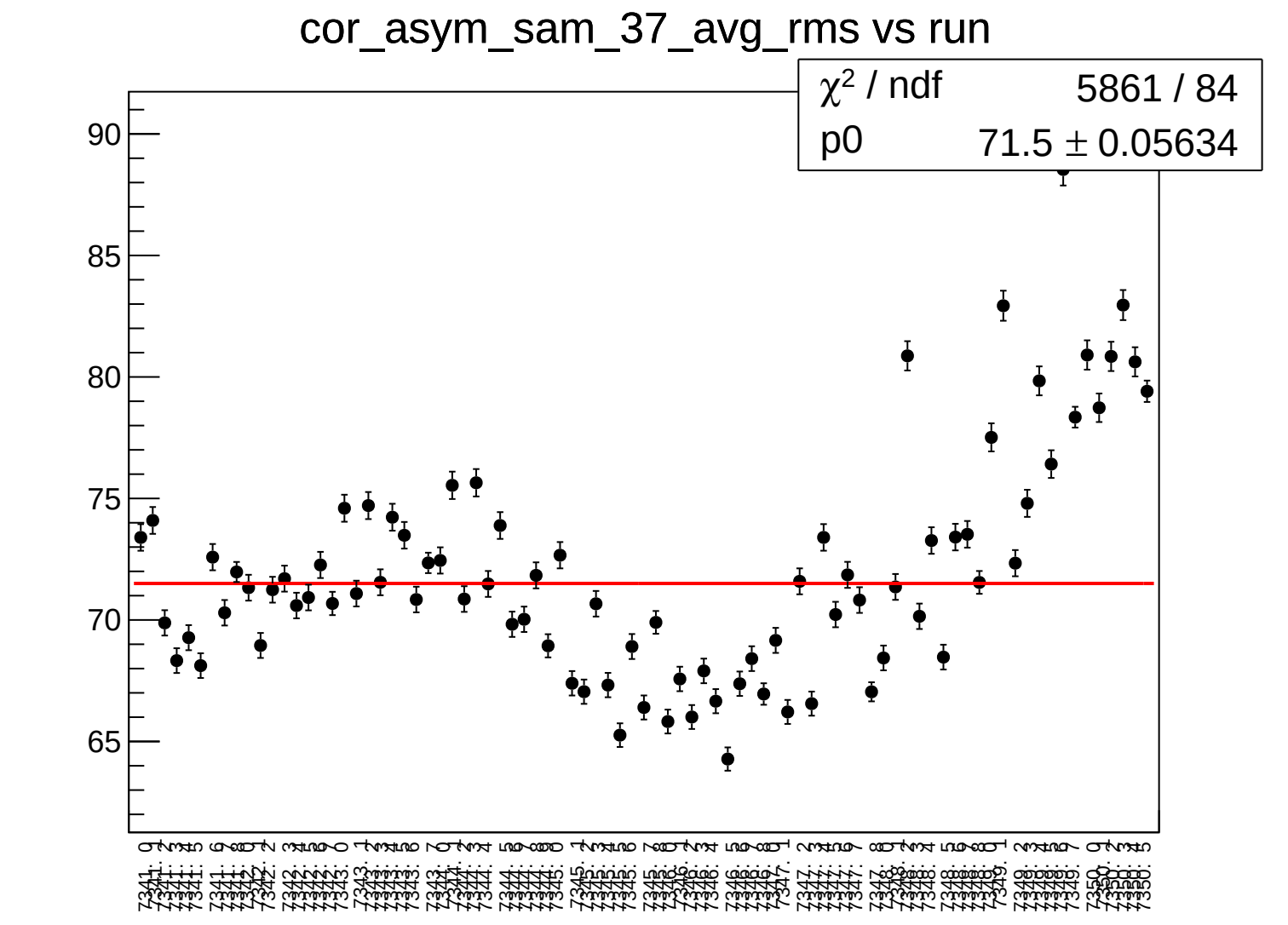

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 85.73 / 84
p0 −764.5 ± 641.9
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −951.2
Std Dev 0
3
2
1
0
−1
−2

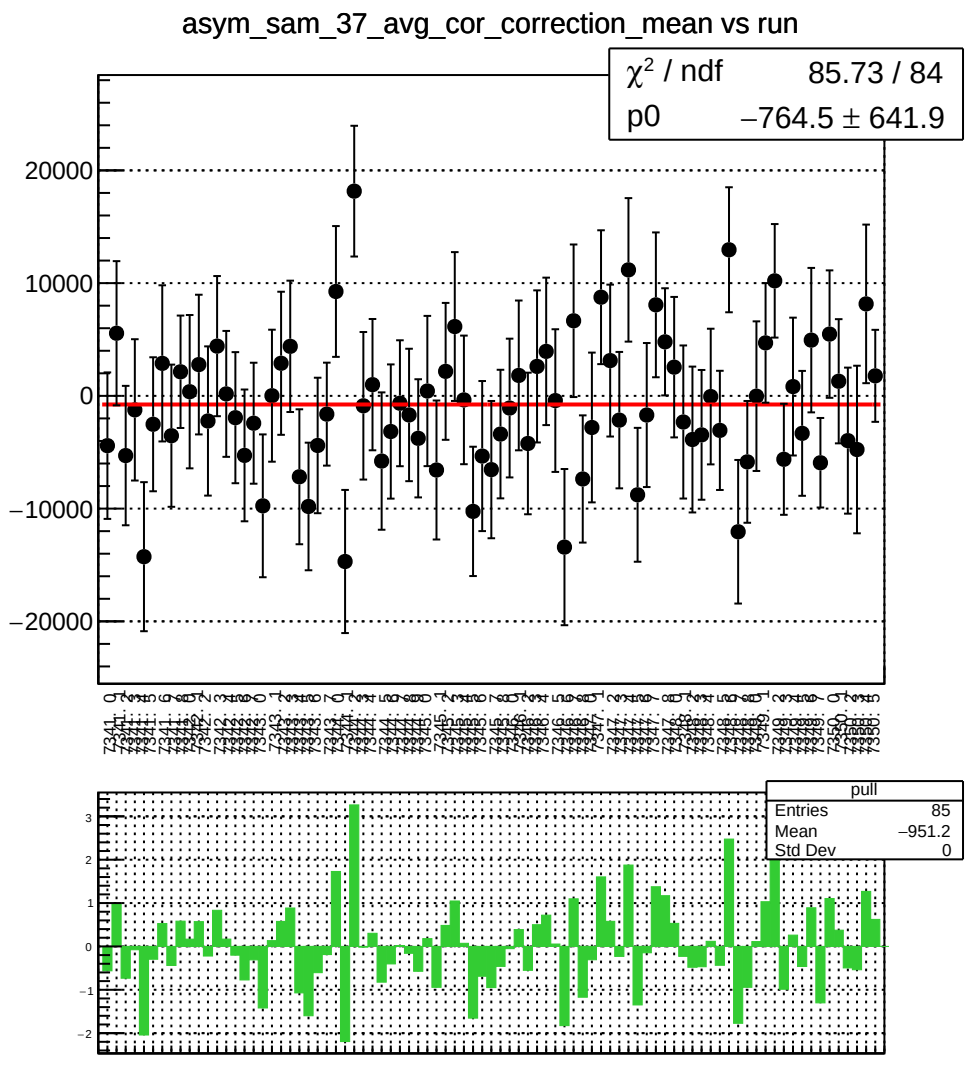

pull1D
Entries 85
Mean −0.003299
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

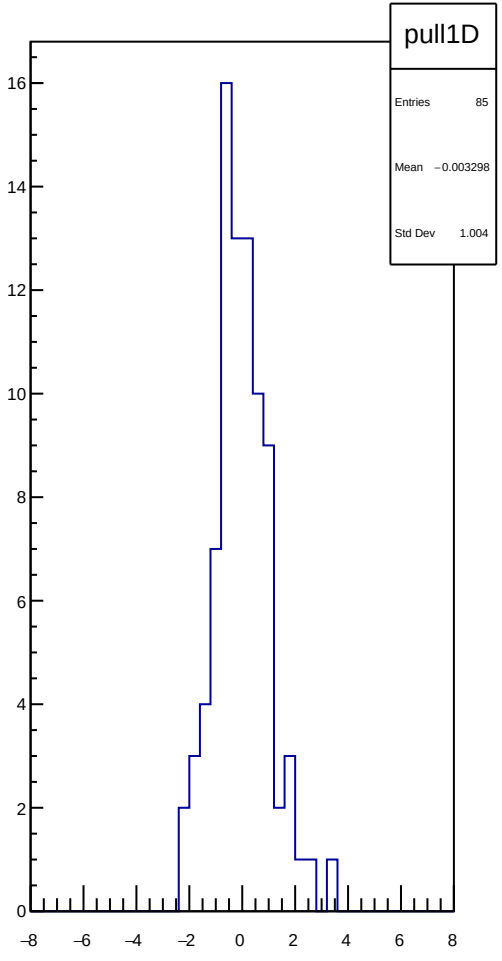

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 9607 / 84
p0 575.4 ± 0.4539
700
650
600
550
500
450

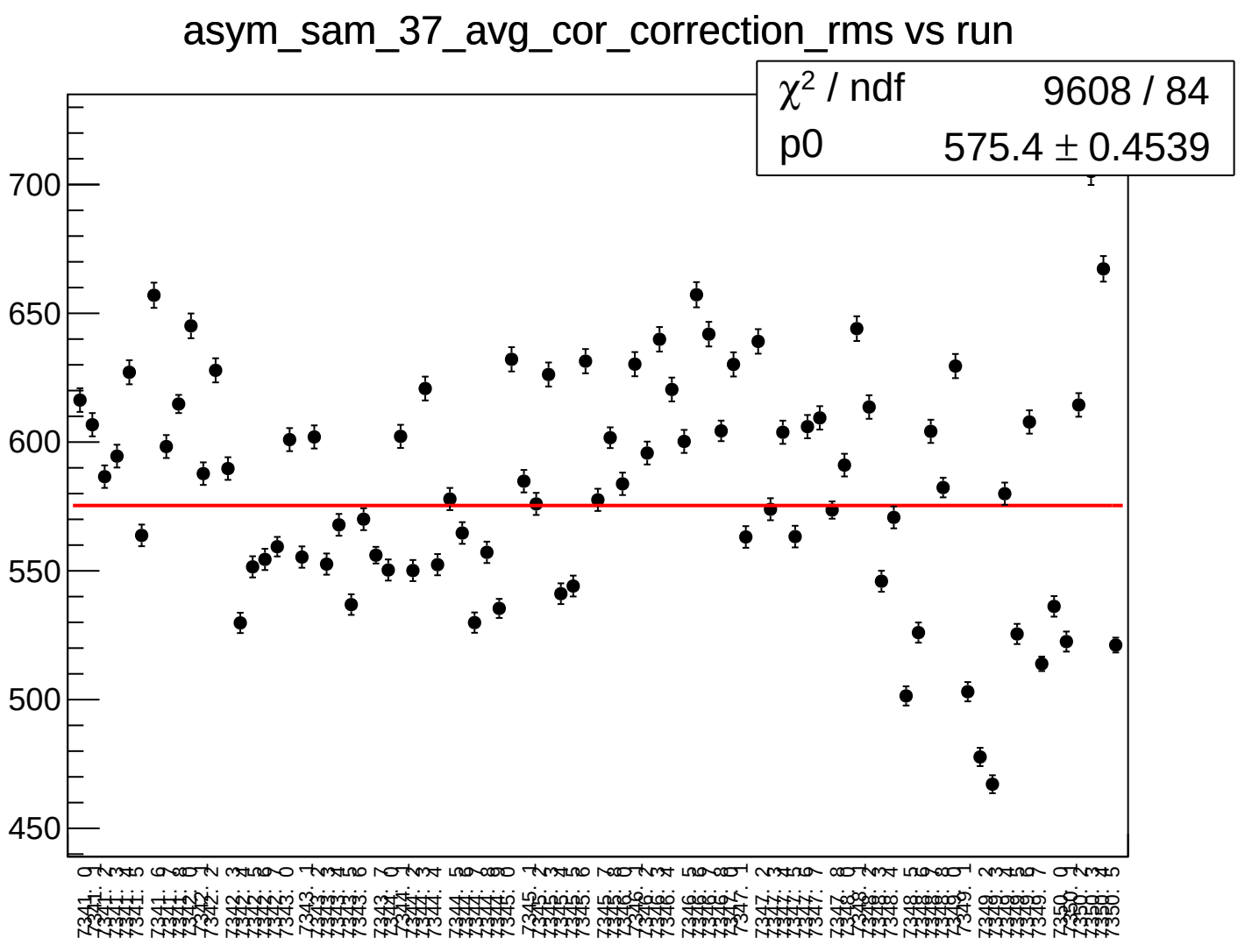

cor_asym_sam_37_avg_mean vs run
χ² / ndf 90.18 / 84
p0 176.2 ± 79.68
pull
Entries 85
Mean −71.67
Std Dev 0

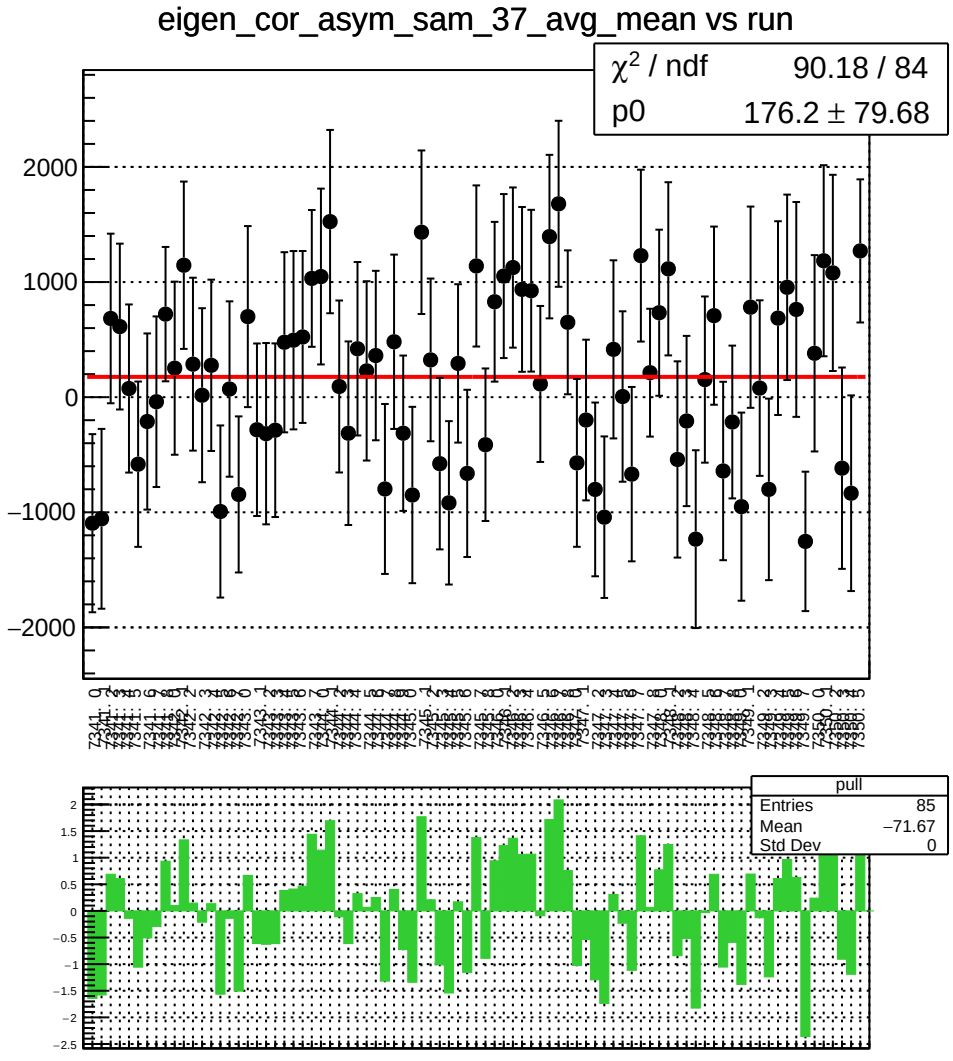

pull1D
Entries 85
Mean −0.008074
Std Dev 1.03

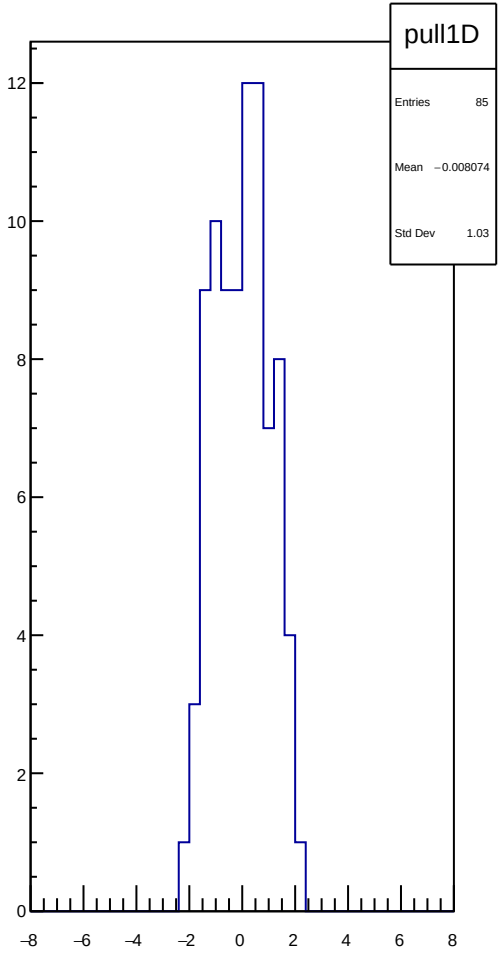

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 5861 / 84
p0 71.5 ± 0.05634
90
85
80
75
70
65

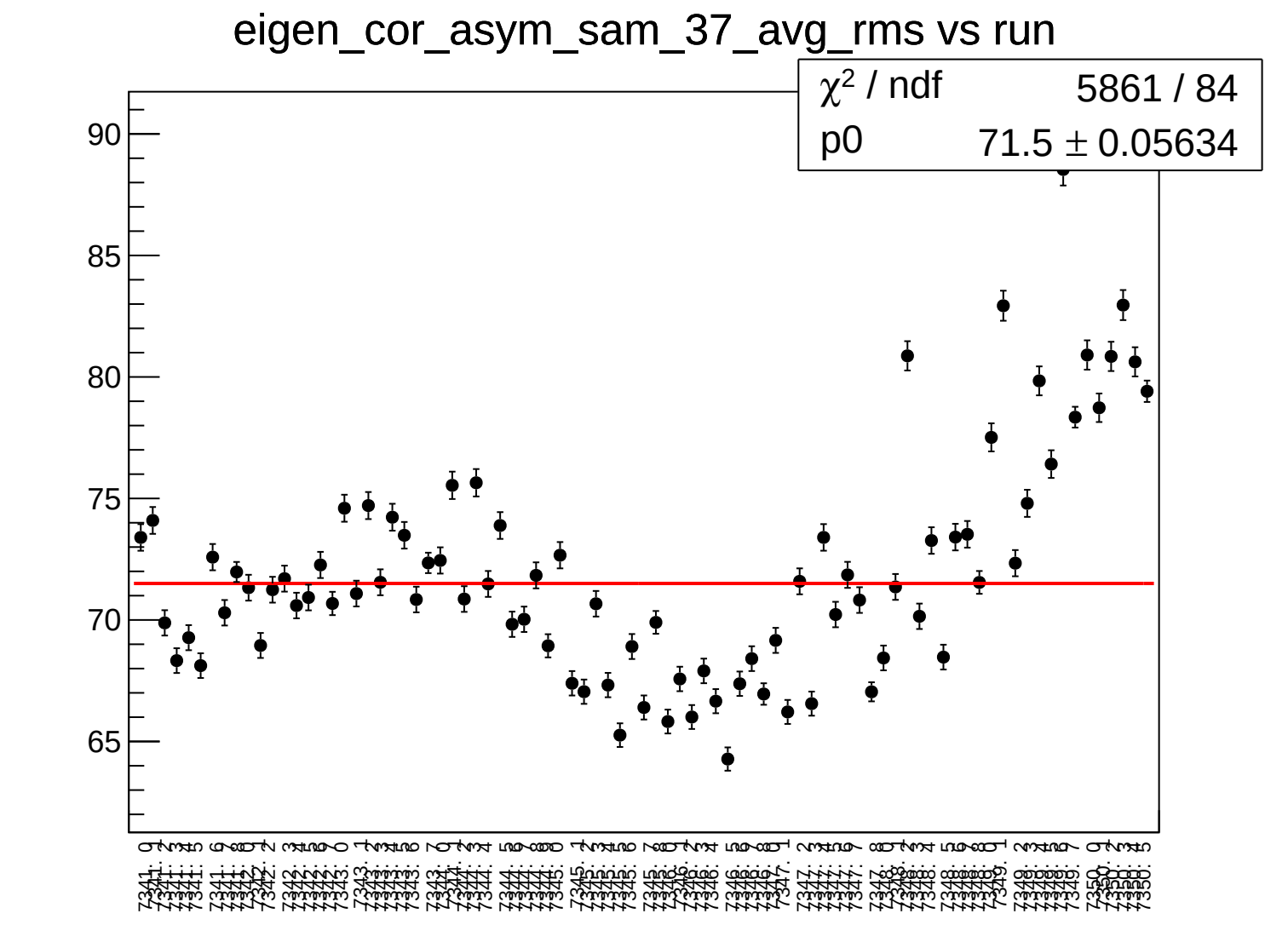

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 85.73 / 84
p0 −764.5 ± 641.9
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −951.2
Std Dev 0
3
2
1
0
−1
−2

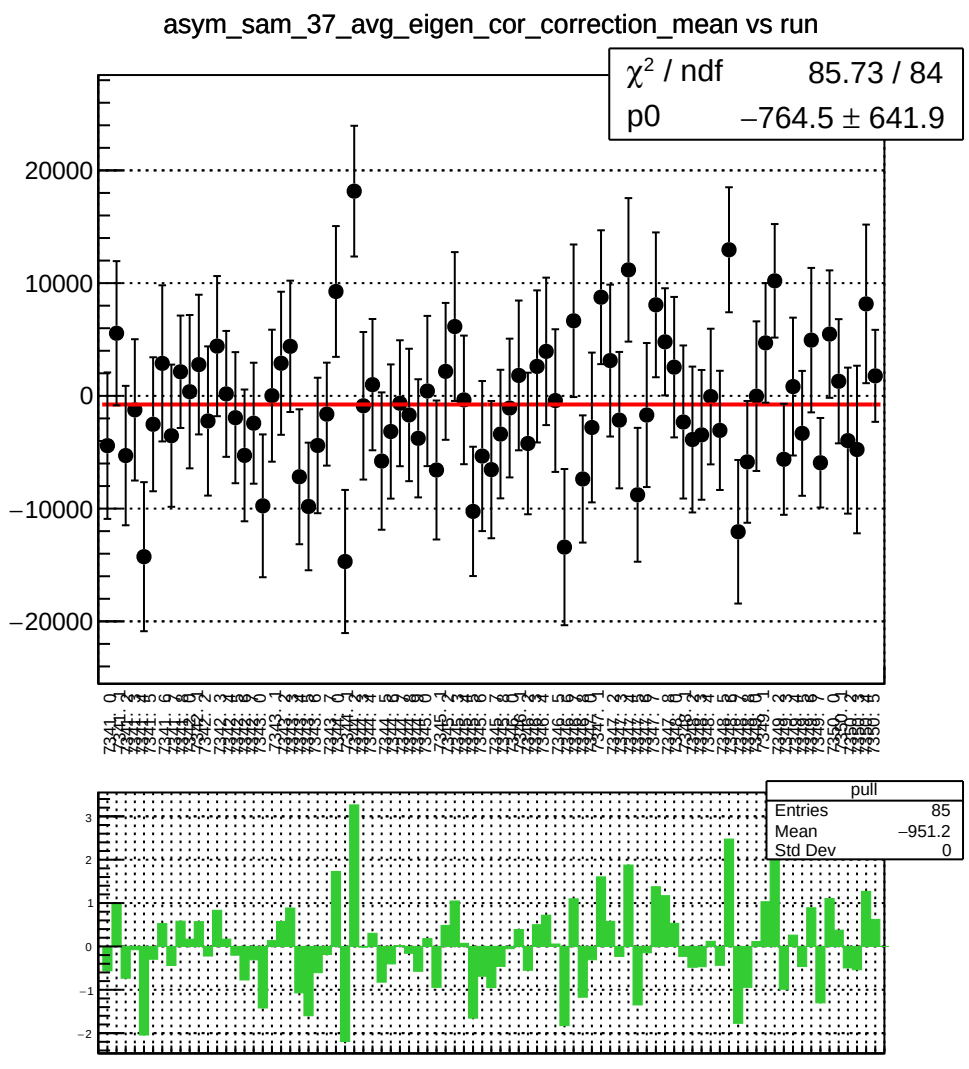

pull1D
Entries 85
Mean −0.003298
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

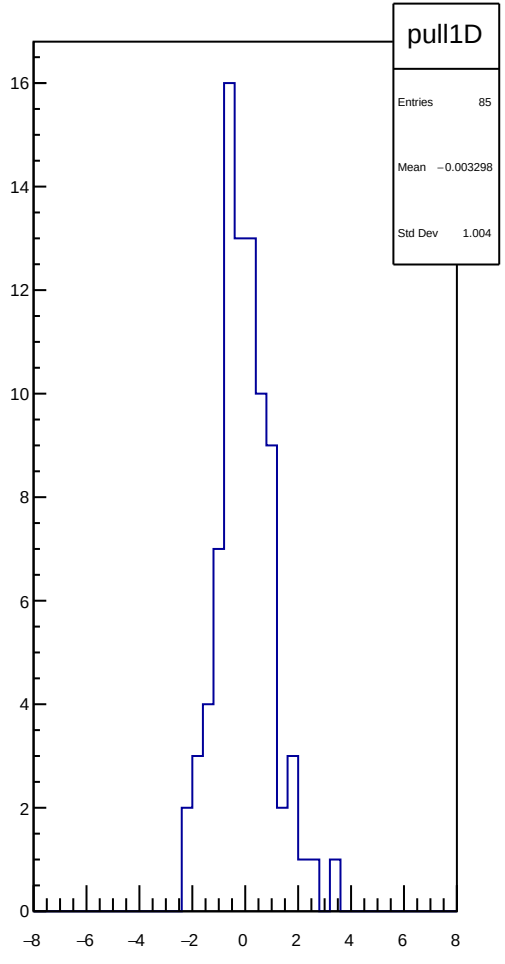

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 9608 / 84
p0 575.4 ± 0.4539
700
650
600
550
500
450

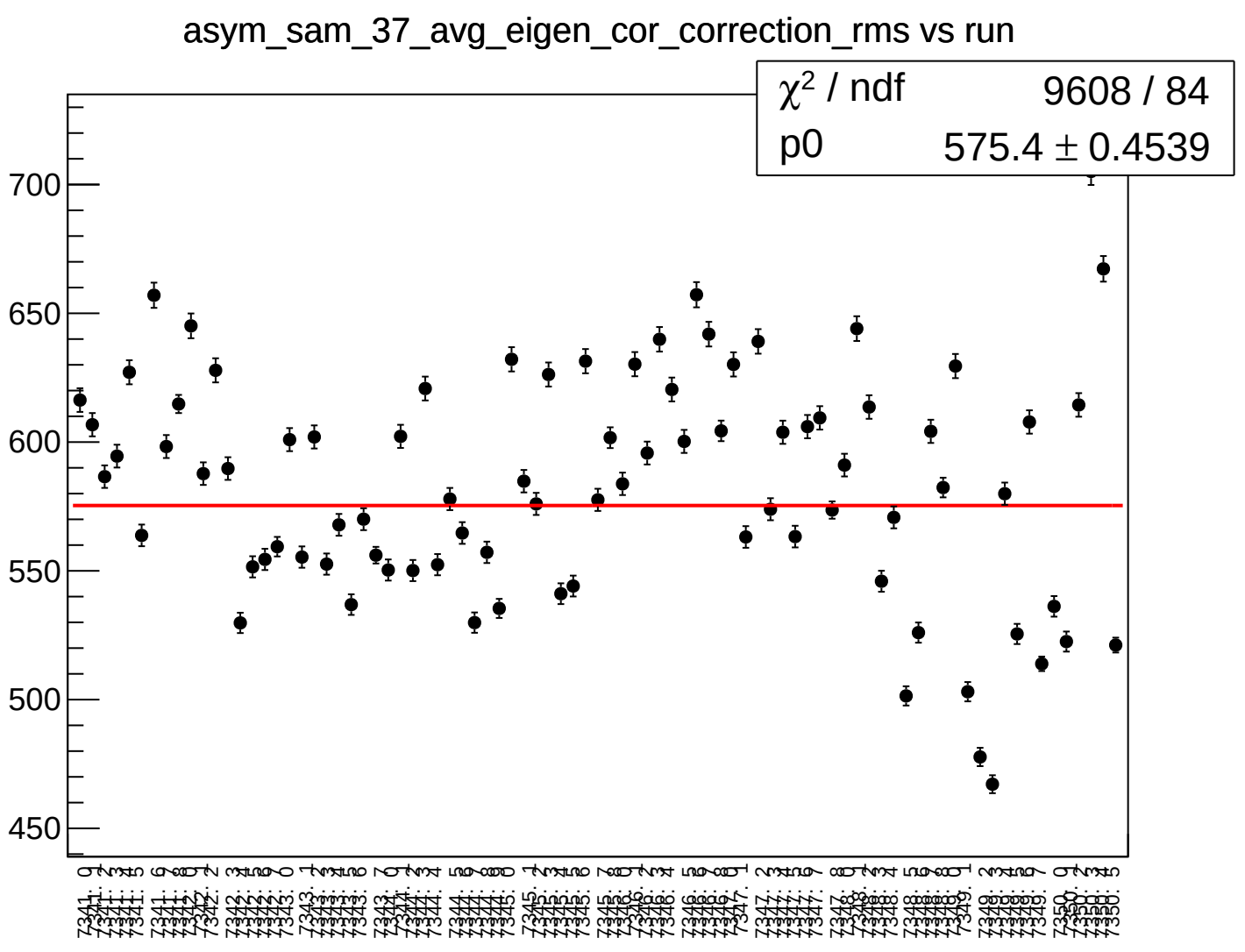

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 90.18 / 84
p0 176.2 ± 79.68
pull
Entries 85
Mean −71.67
Std Dev 0

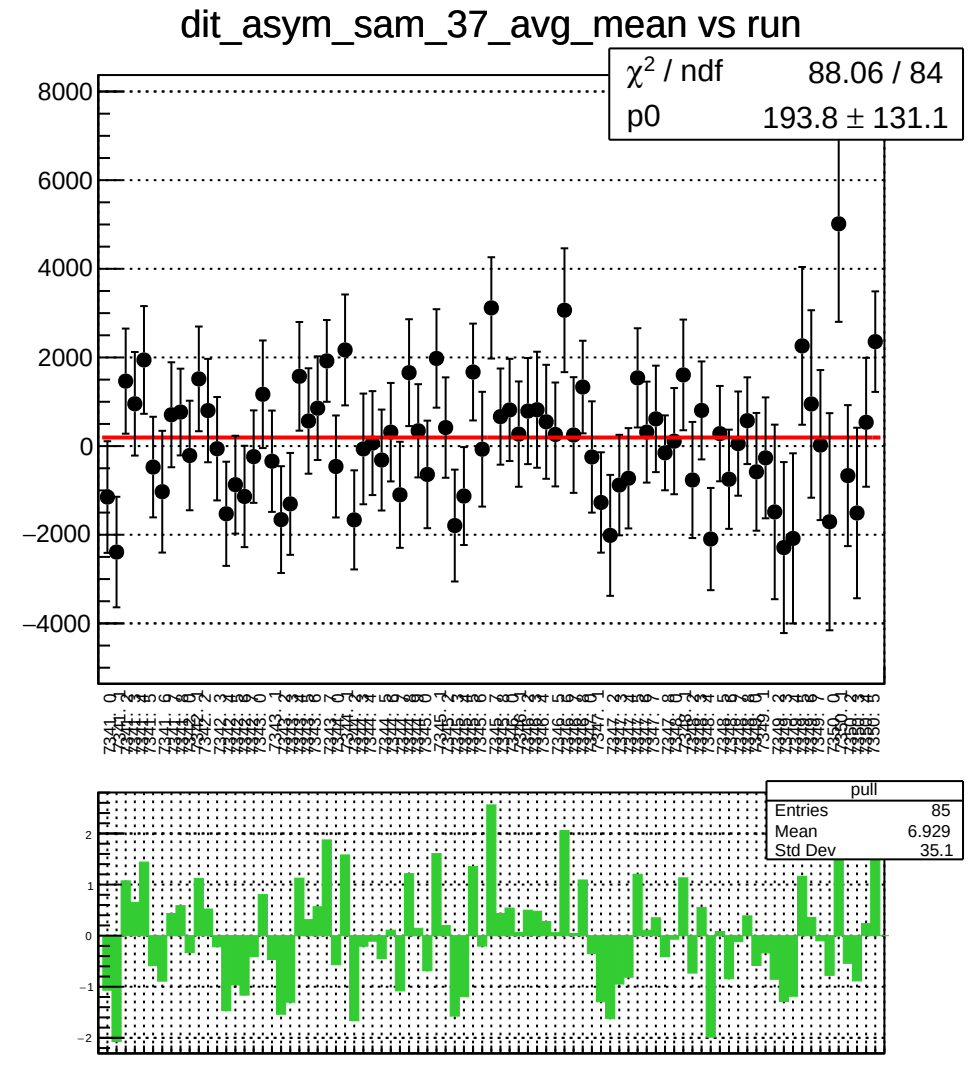

pull1D
Entries 85
Mean −0.008074
Std Dev 1.03

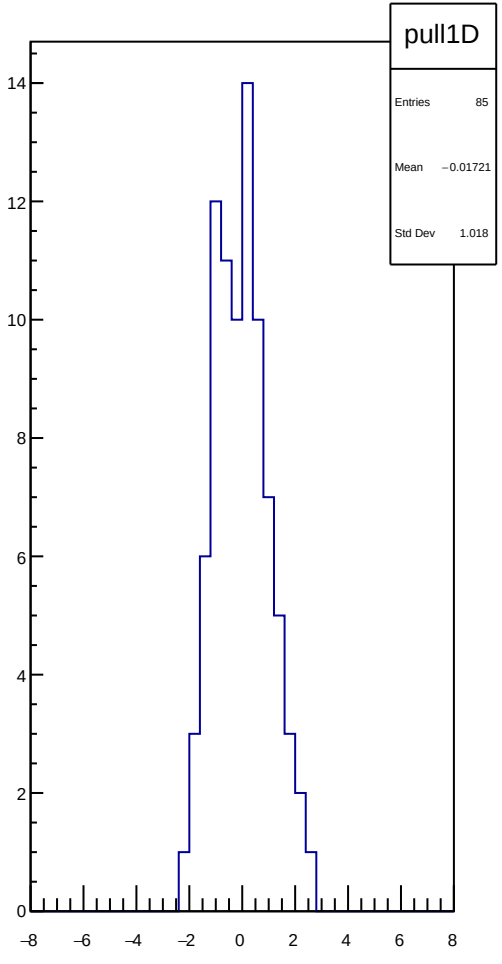

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 5861 / 84
p0 71.5 ± 0.05634
90
85
80
75
70
65

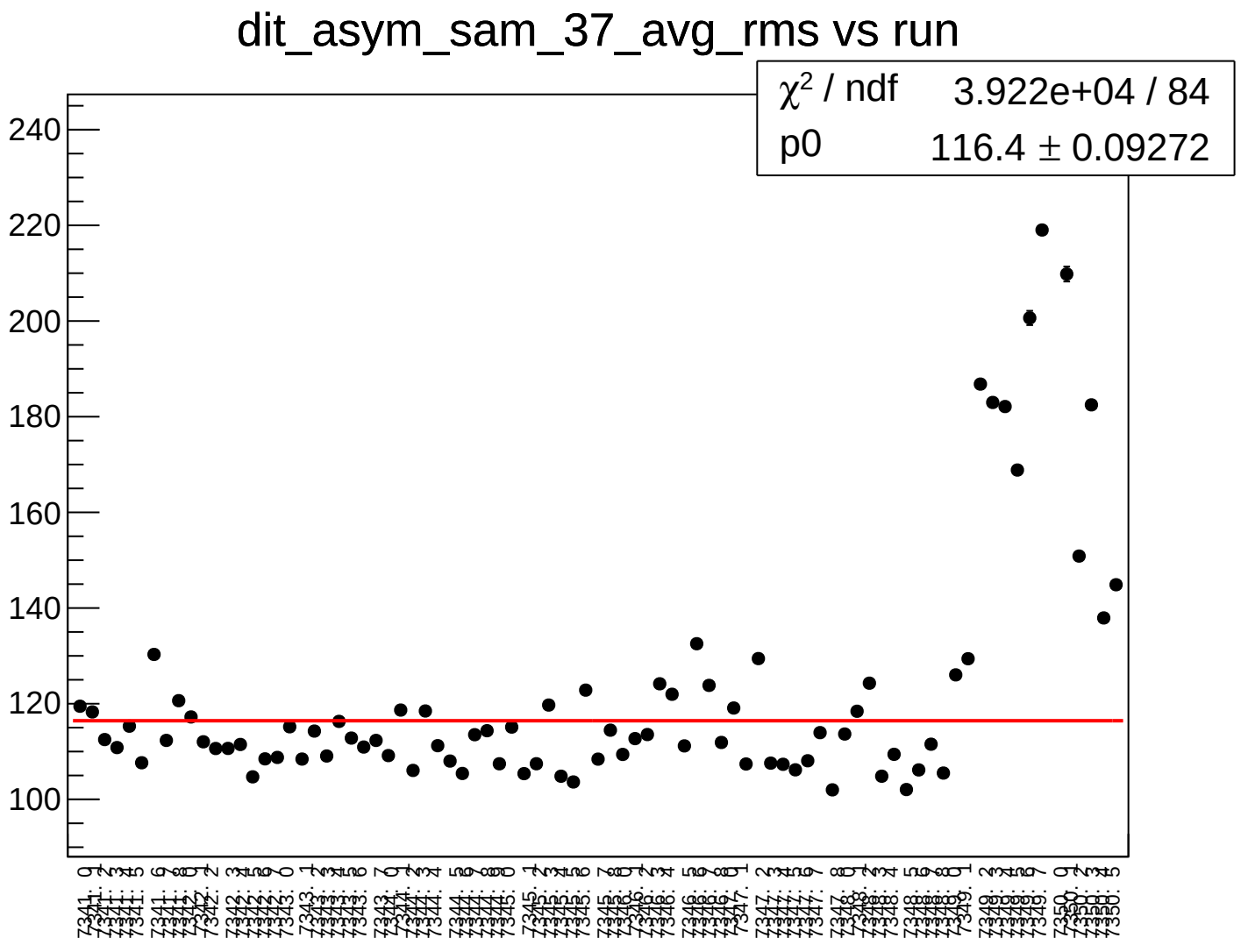

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.73 / 84
p0 −764.5 ± 641.9
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −951.2
Std Dev 0
3
2
1
0
−1
−2

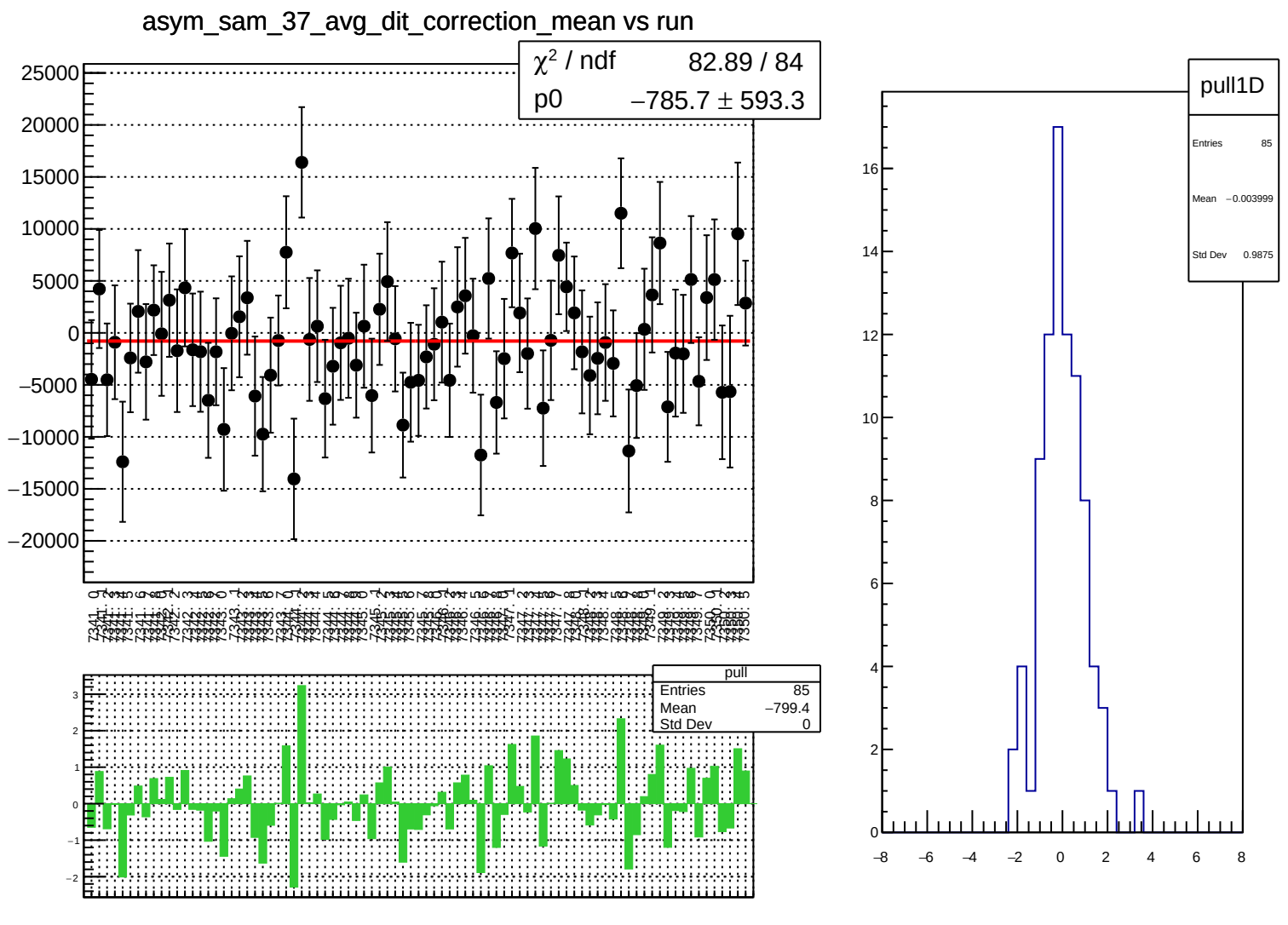

pull1D
Entries 85
Mean −0.003298
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

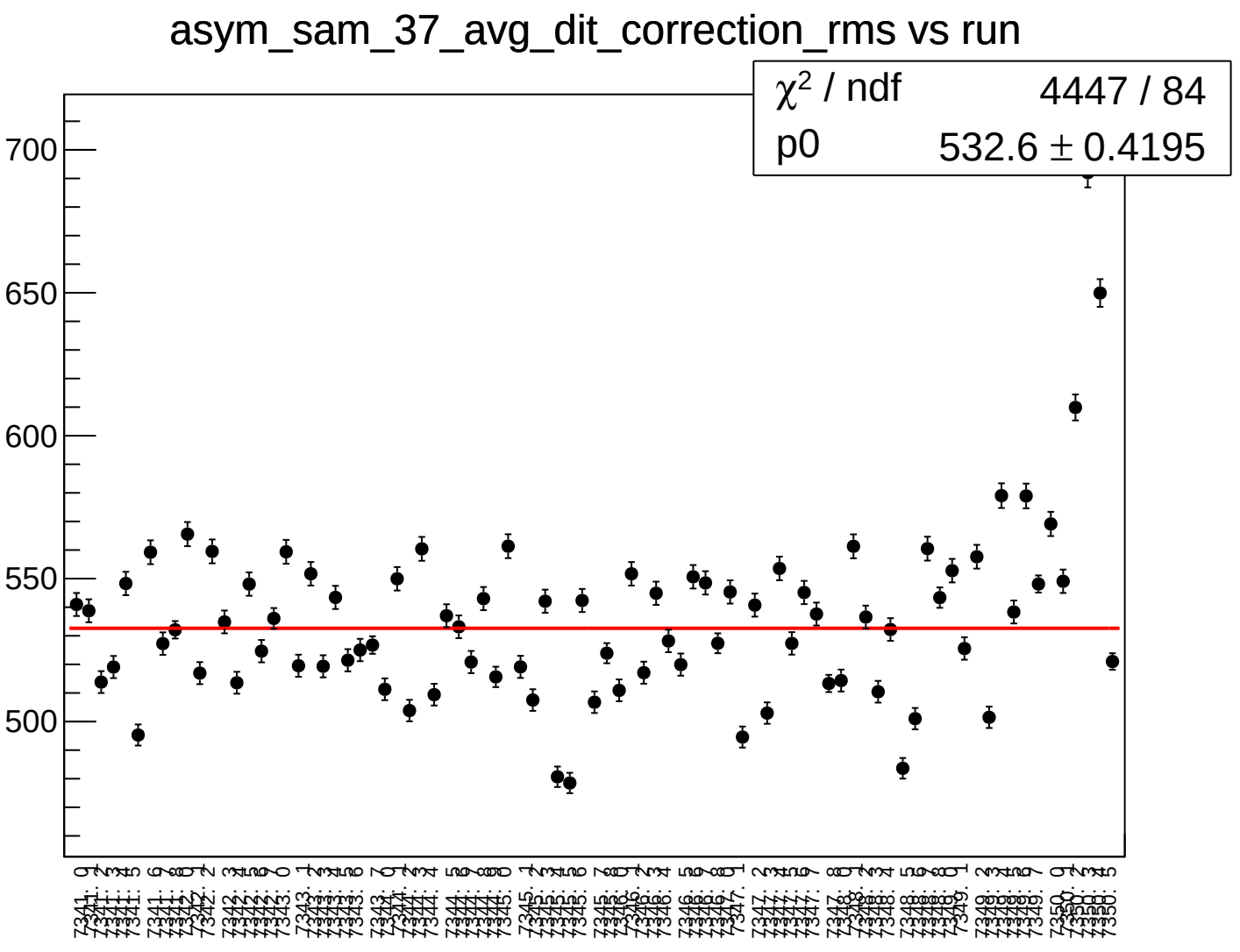

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 9608 / 84
p0 575.4 ± 0.4539
700
650
600
550
500
450

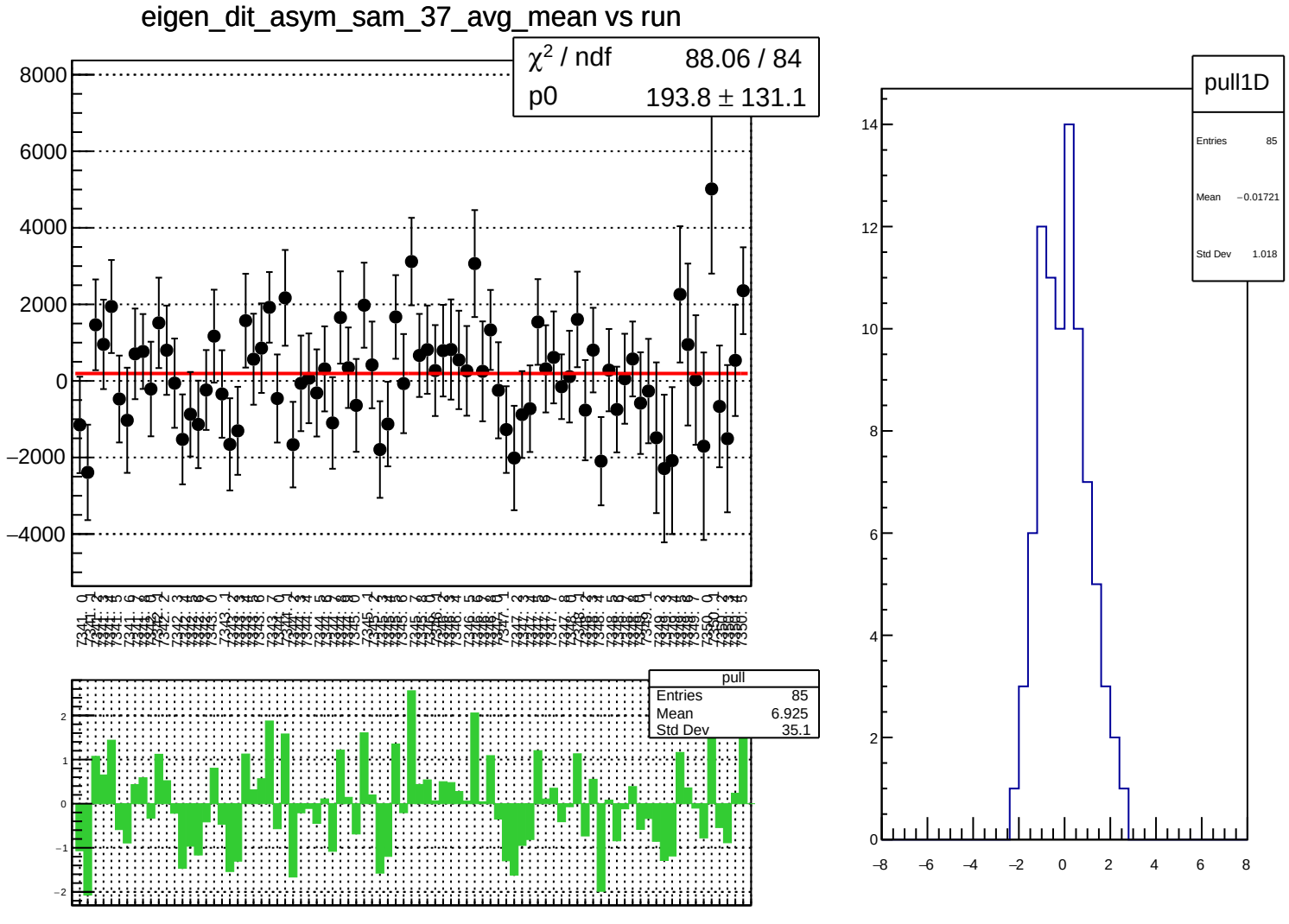

dit_asym_sam_37_avg_mean vs run
χ² / ndf 88.06 / 84
p0 193.8 ± 131.1
pull
Entries 85
Mean 6.929
Std Dev 35.1

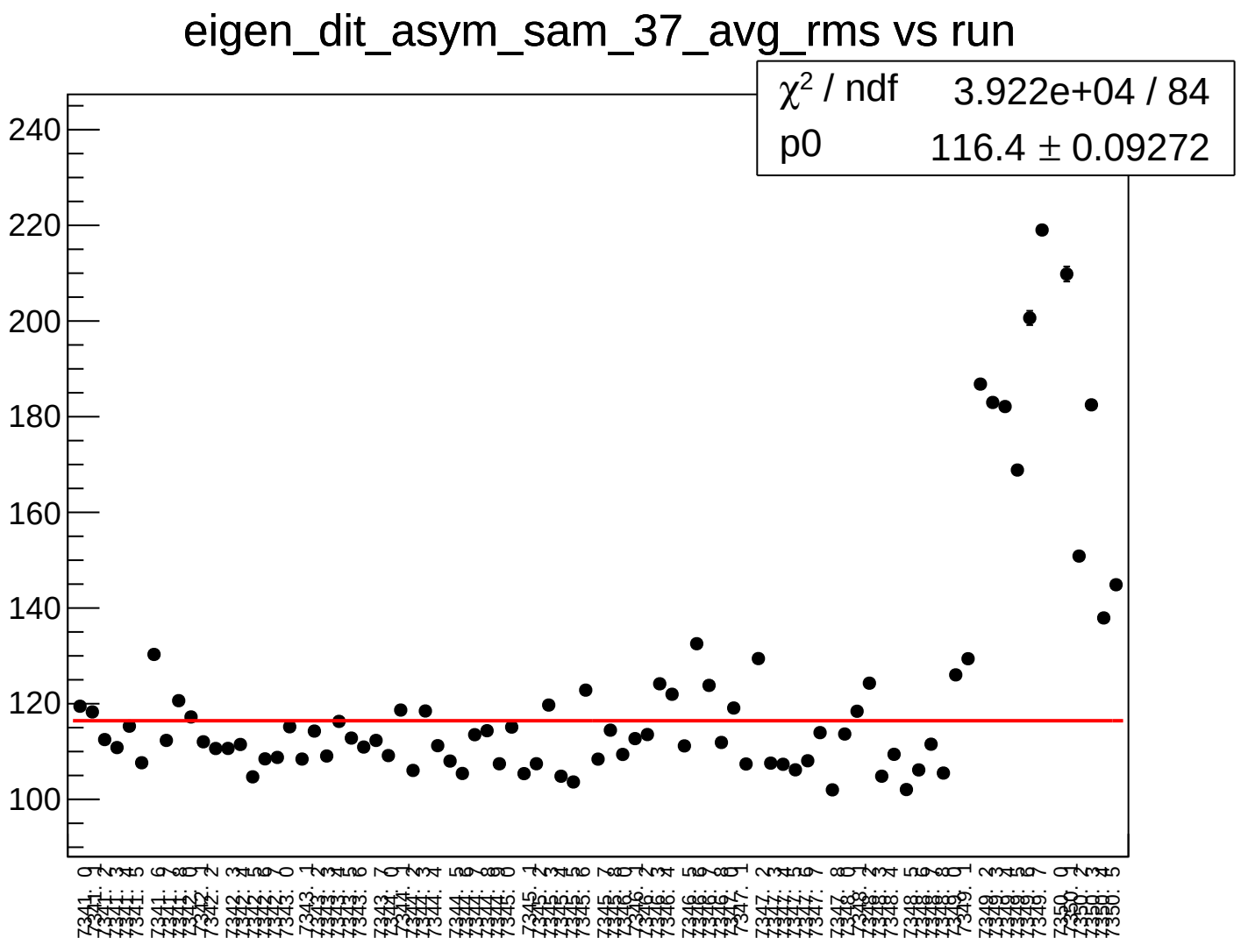

pull1D
Entries 85
Mean −0.01721
Std Dev 1.018

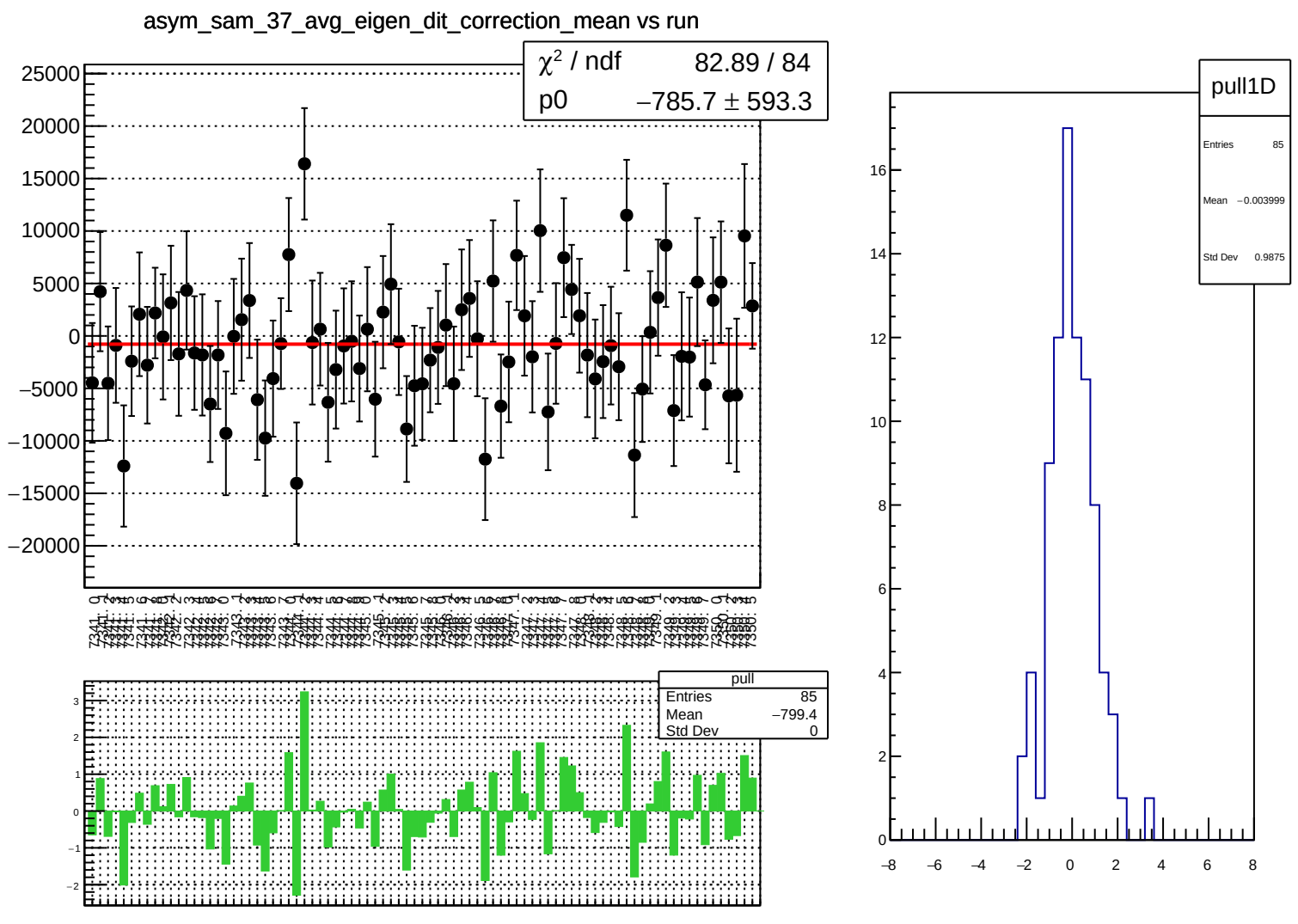

dit_asym_sam_37_avg_rms vs run
χ² / ndf 3.922e+04 / 84
p0 116.4 ± 0.09272
240
220
200
180
160
140
120
100

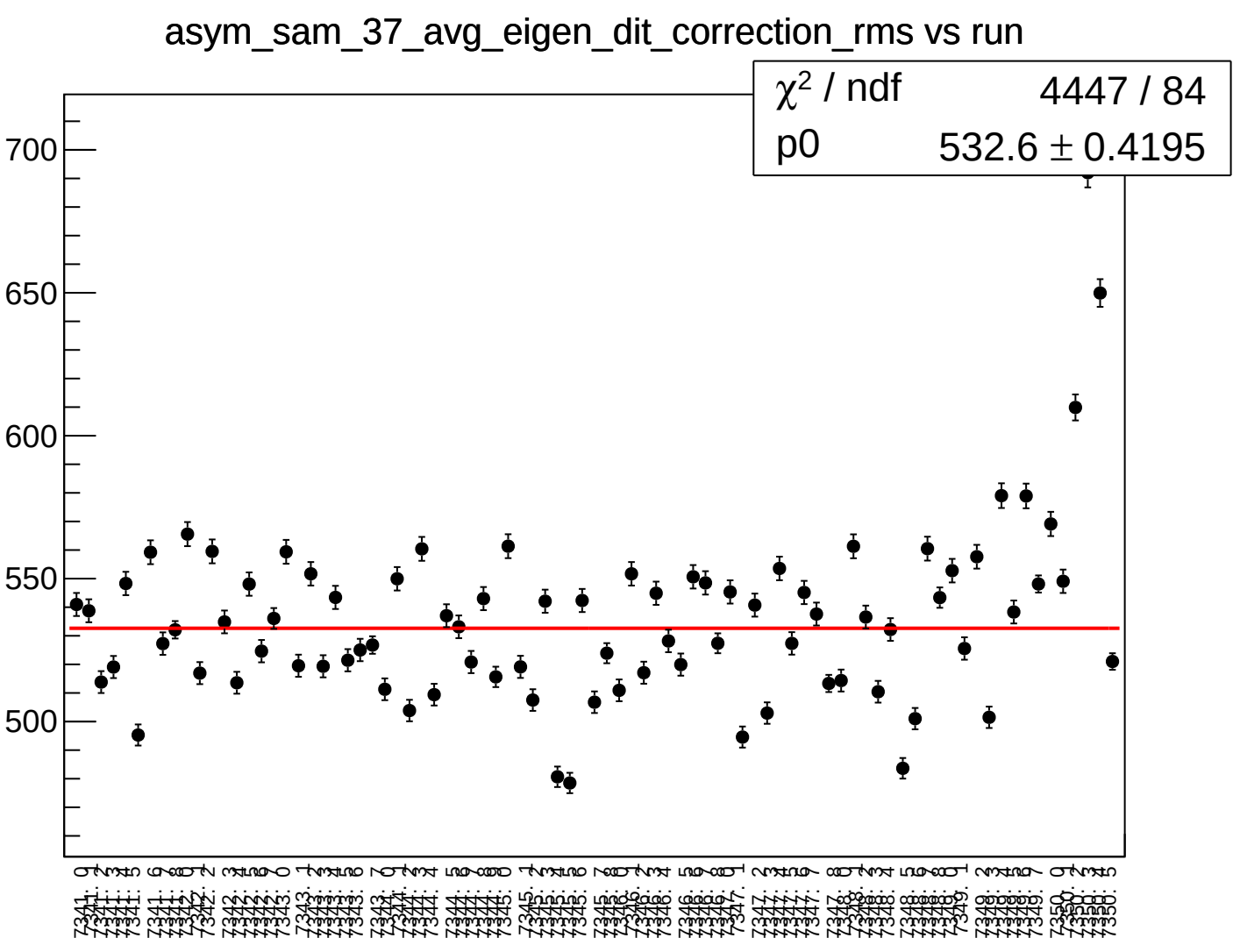

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 82.89 / 84
p0 −785.7 ± 593.3
pull
Entries 85
Mean −799.4
Std Dev 0
pull1D
Entries 85
Mean −0.003999
Std Dev 0.9875

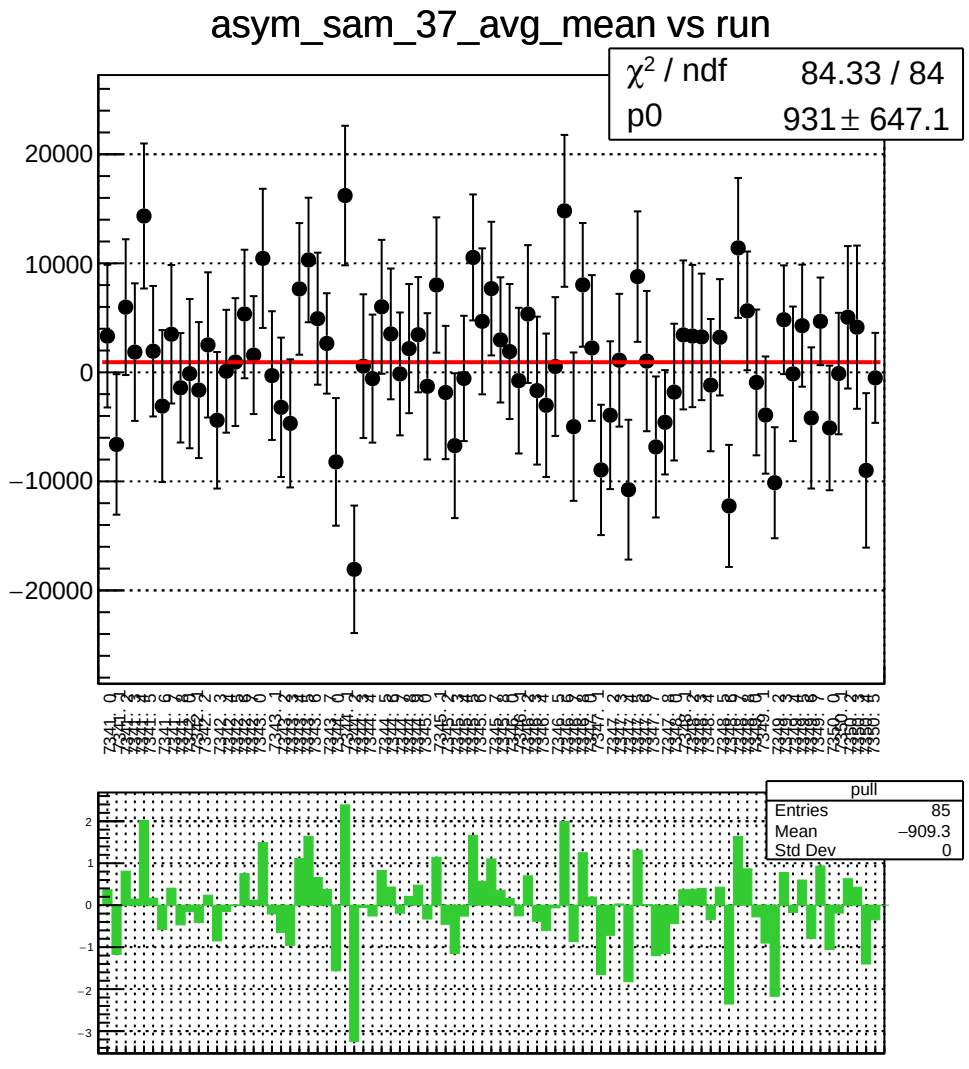

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 4447 / 84
p0 532.6 ± 0.4195
700
650
600
550
500

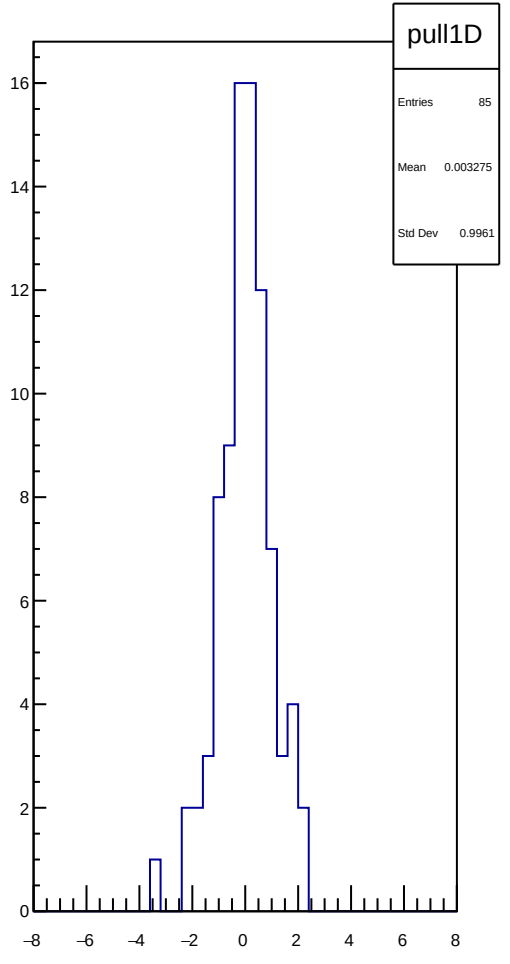

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 88.06 / 84
p0 193.8 ± 131.1
pull
Entries 85
Mean 6.925
Std Dev 35.1
pull1D
Entries 85
Mean −0.01721
Std Dev 1.018

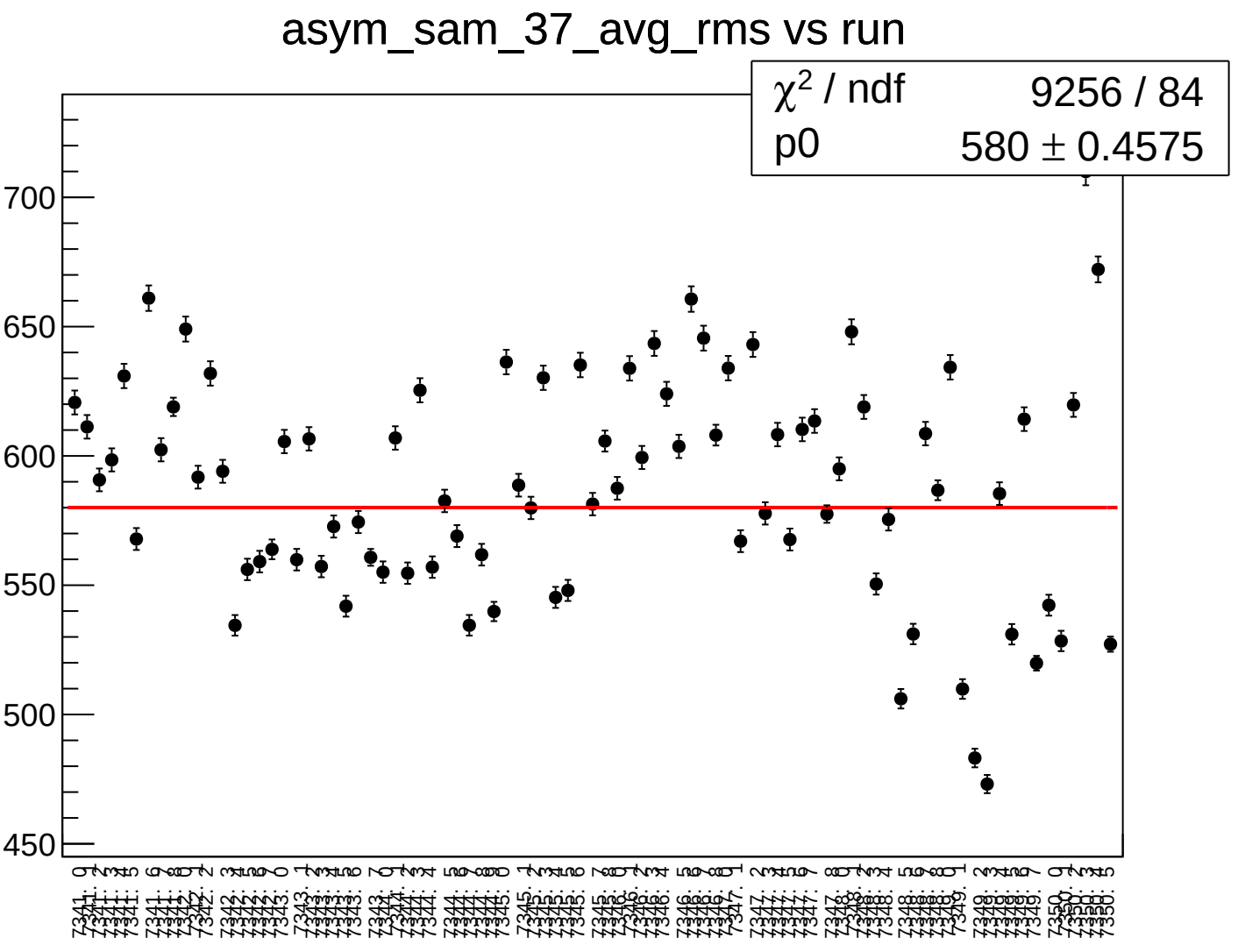

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.922e+04 / 84
p0 116.4 ± 0.09272
240
220
200
180
160
140
120
100

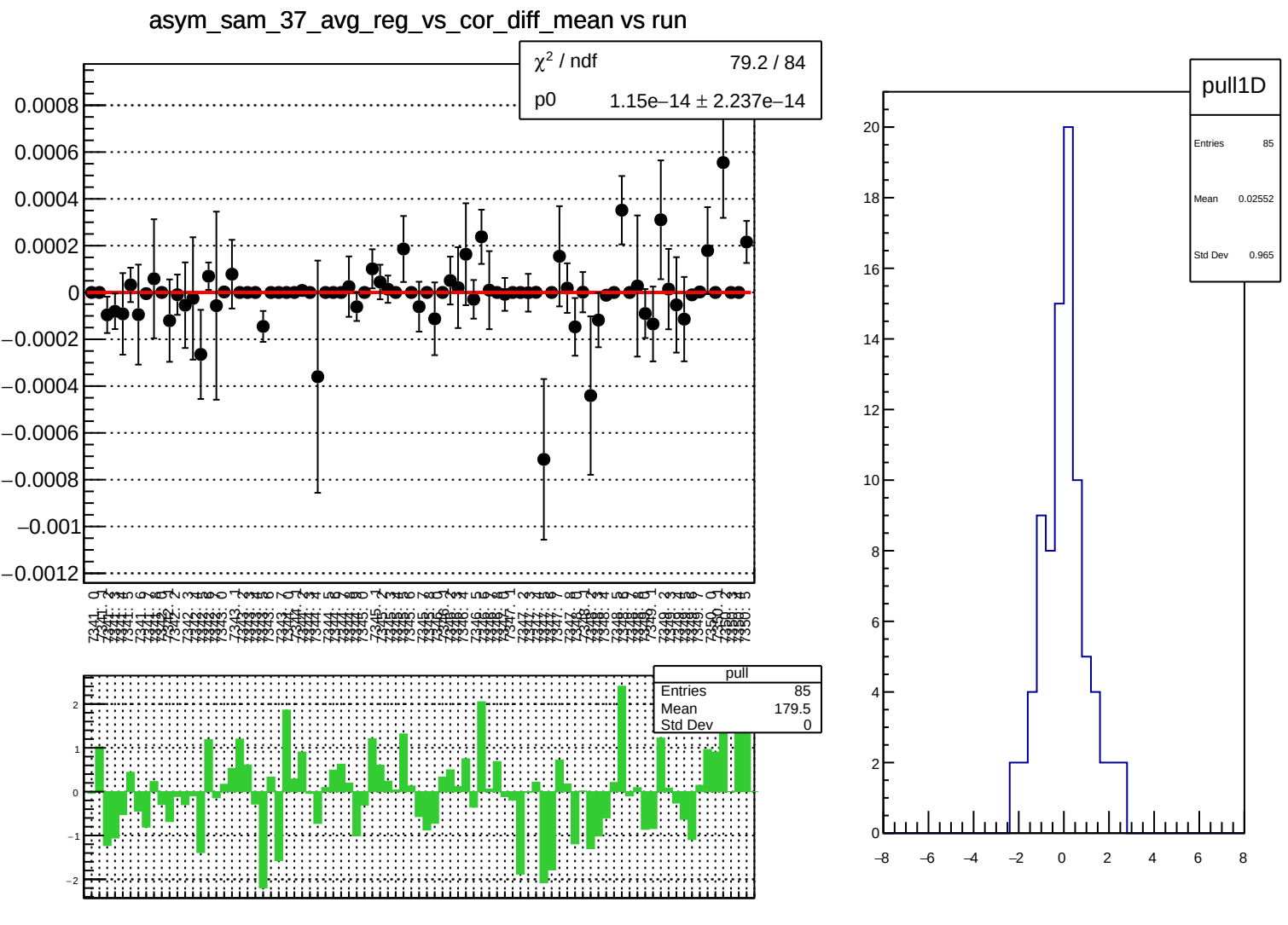

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.89 / 84
p0 −785.7 ± 593.3
pull
Entries 85
Mean −799.4
Std Dev 0
pull1D
Entries 85
Mean −0.003999
Std Dev 0.9875

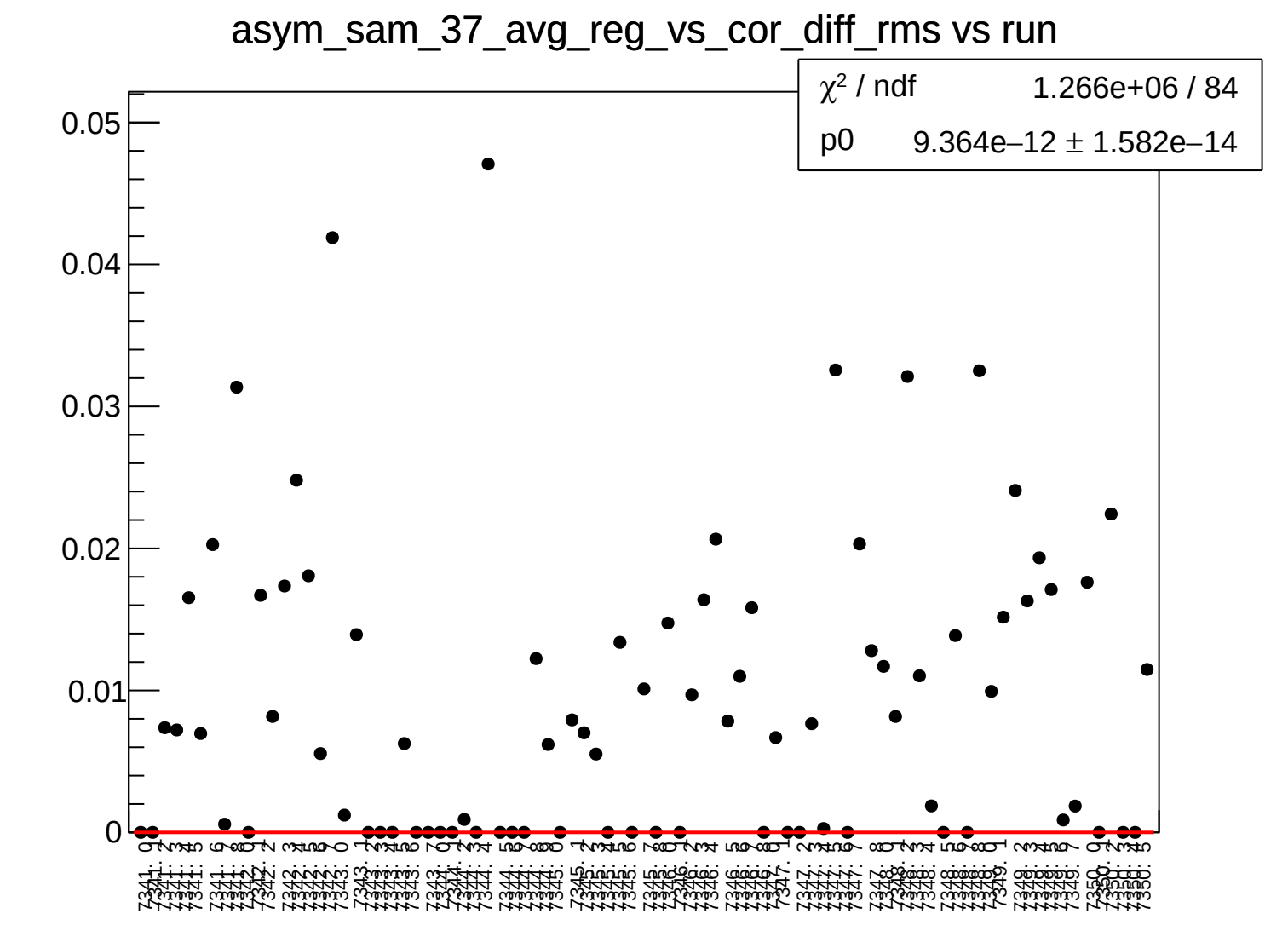

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 4447 / 84
p0 532.6 ± 0.4195
700
650
600
550
500

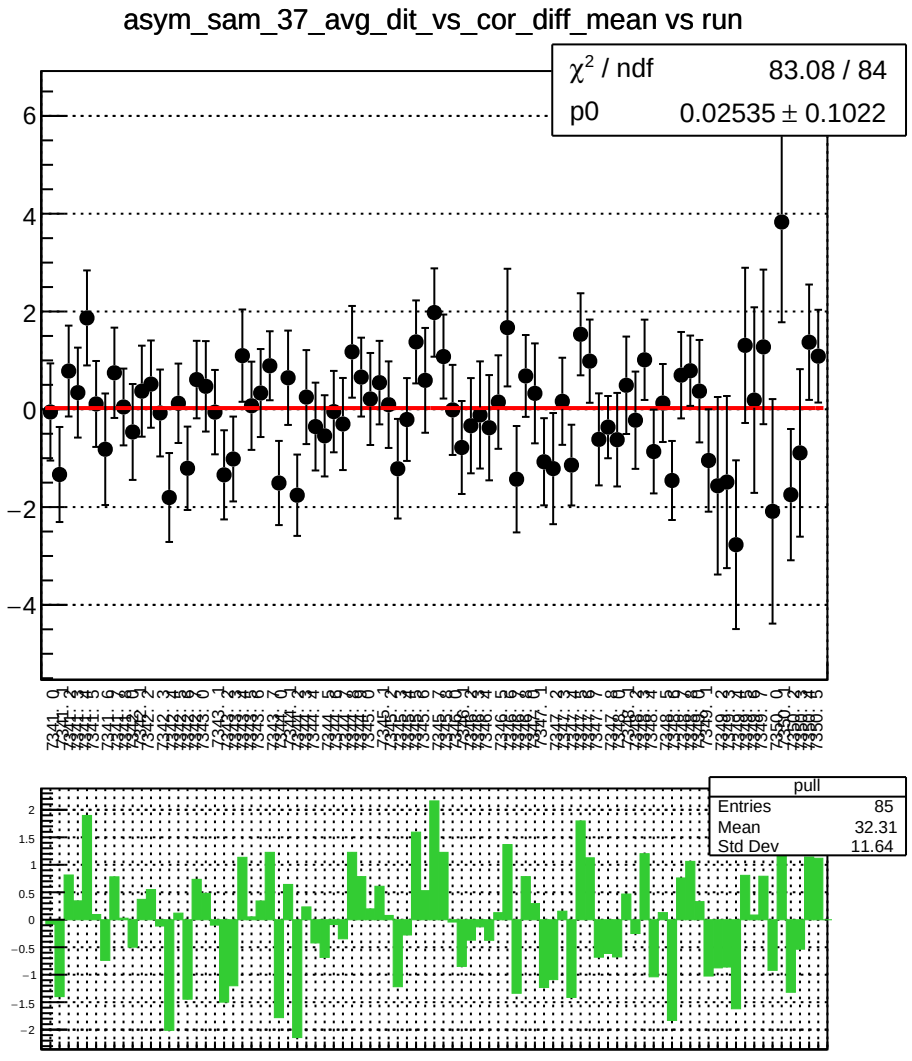

asym_sam_37_avg_mean vs run
χ² / ndf 84.33 / 84
p0 931 ± 647.1
20000
10000
0
−10000
−20000
pull
Entries 85
Mean −909.3
Std Dev 0
2
1
0
−1
−2
−3

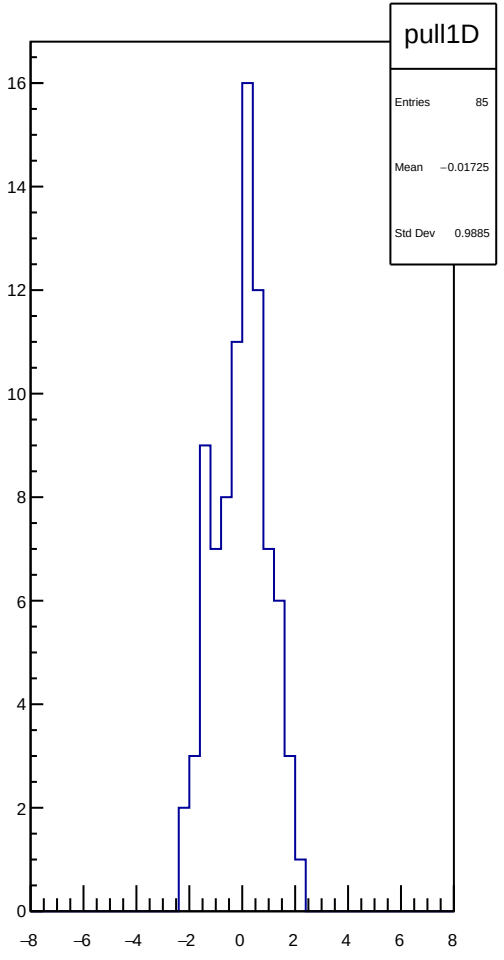

pull1D
Entries 85
Mean 0.003275
Std Dev 0.9961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

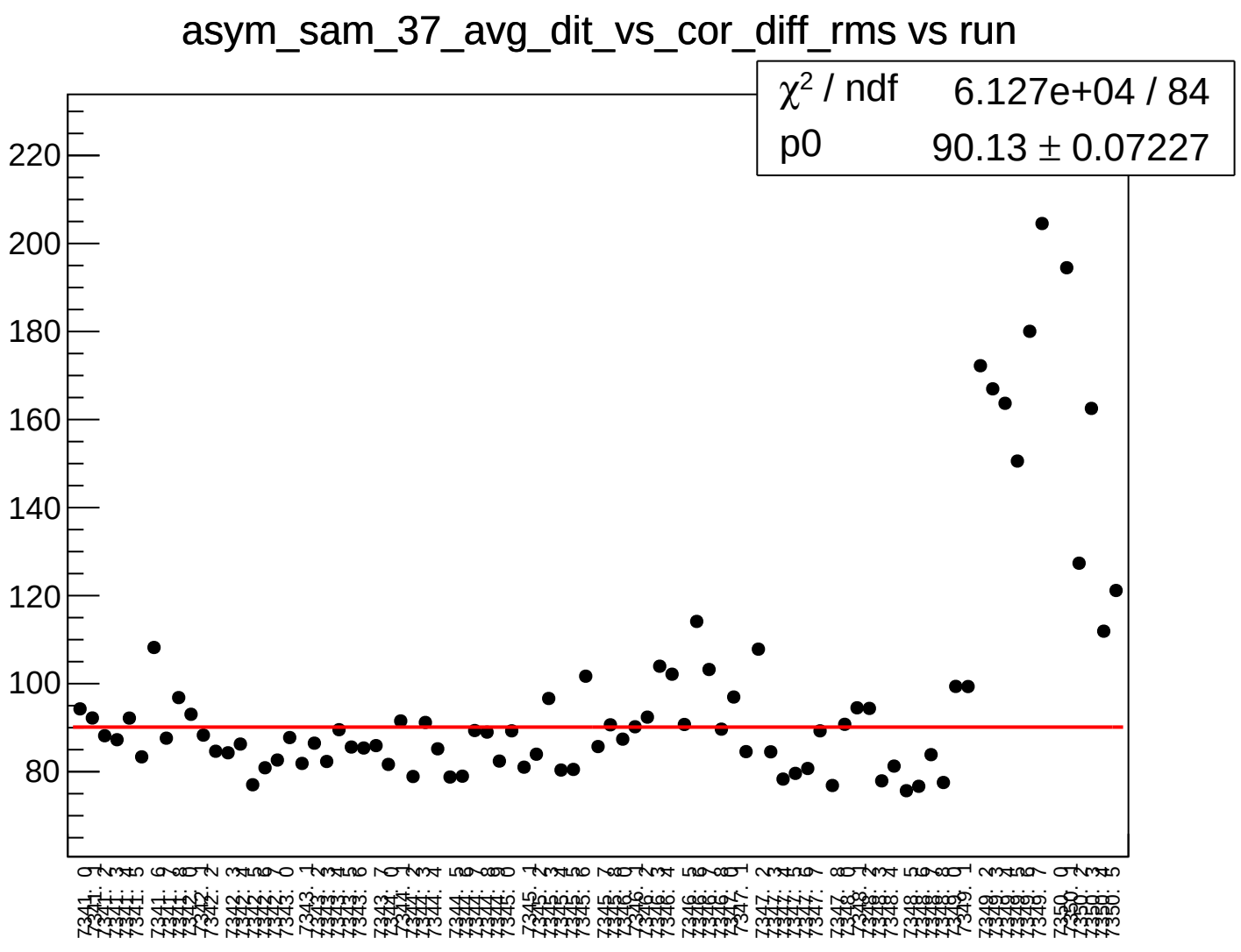

asym_sam_37_avg_rms vs run
χ² / ndf 9256 / 84
p0 580 ± 0.4575
700
650
600
550
500
450

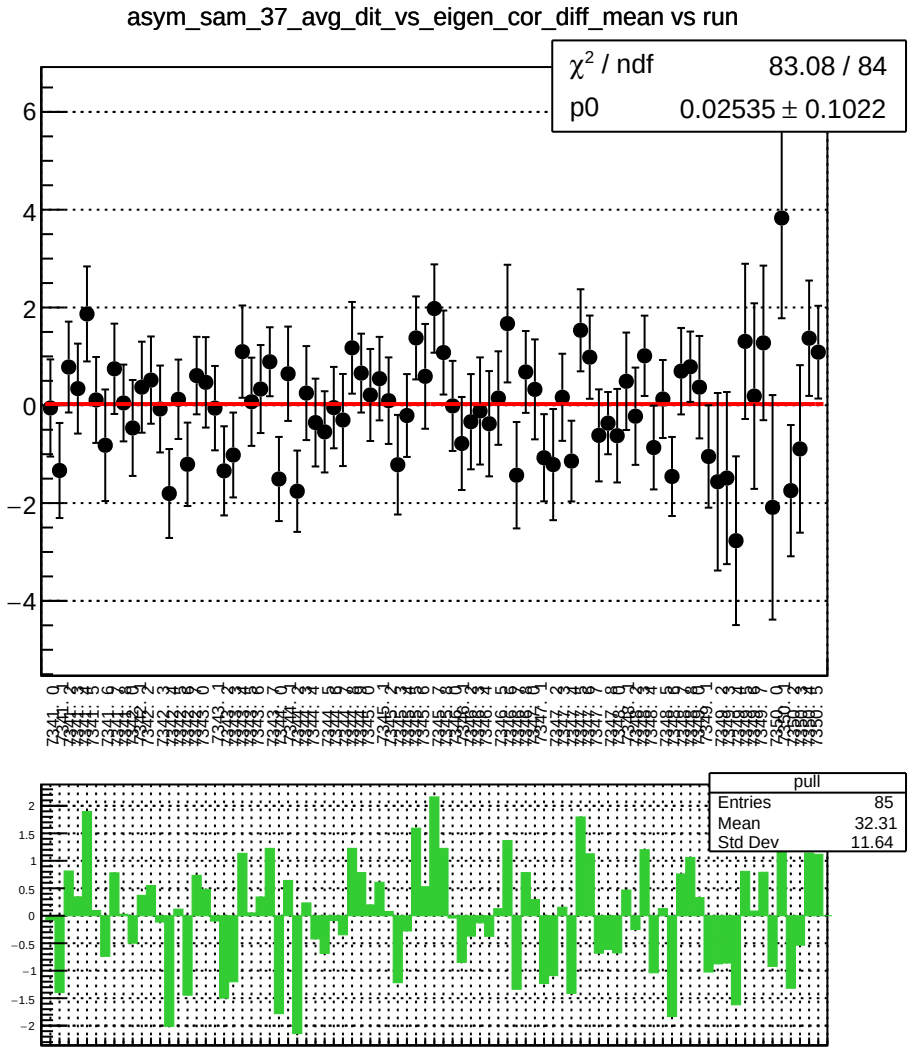

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.2 / 84
p0 1.15e−14 ± 2.237e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 85
Mean 179.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.02552
Std Dev 0.965
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

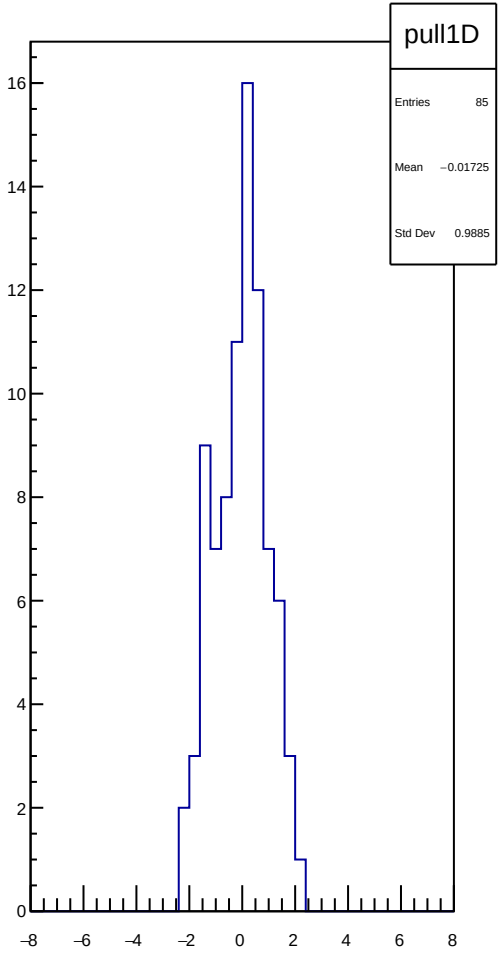

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.266e+06 / 84
p0 9.364e−12 ± 1.582e−14
0.05
0.04
0.03
0.02
0.01
0

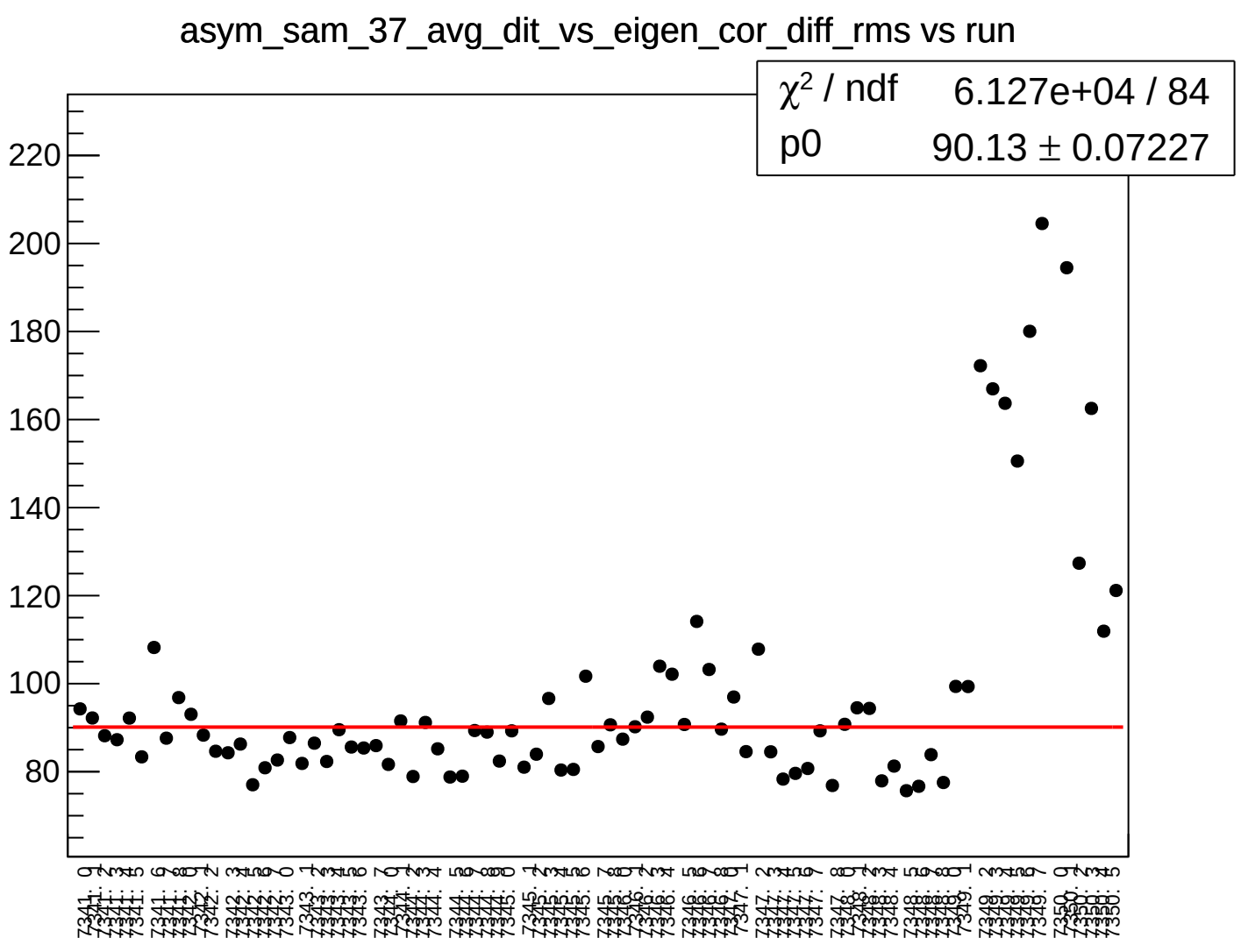

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.08 / 84
p0 0.02535 ± 0.1022
pull
Entries 85
Mean 32.31
Std Dev 11.64

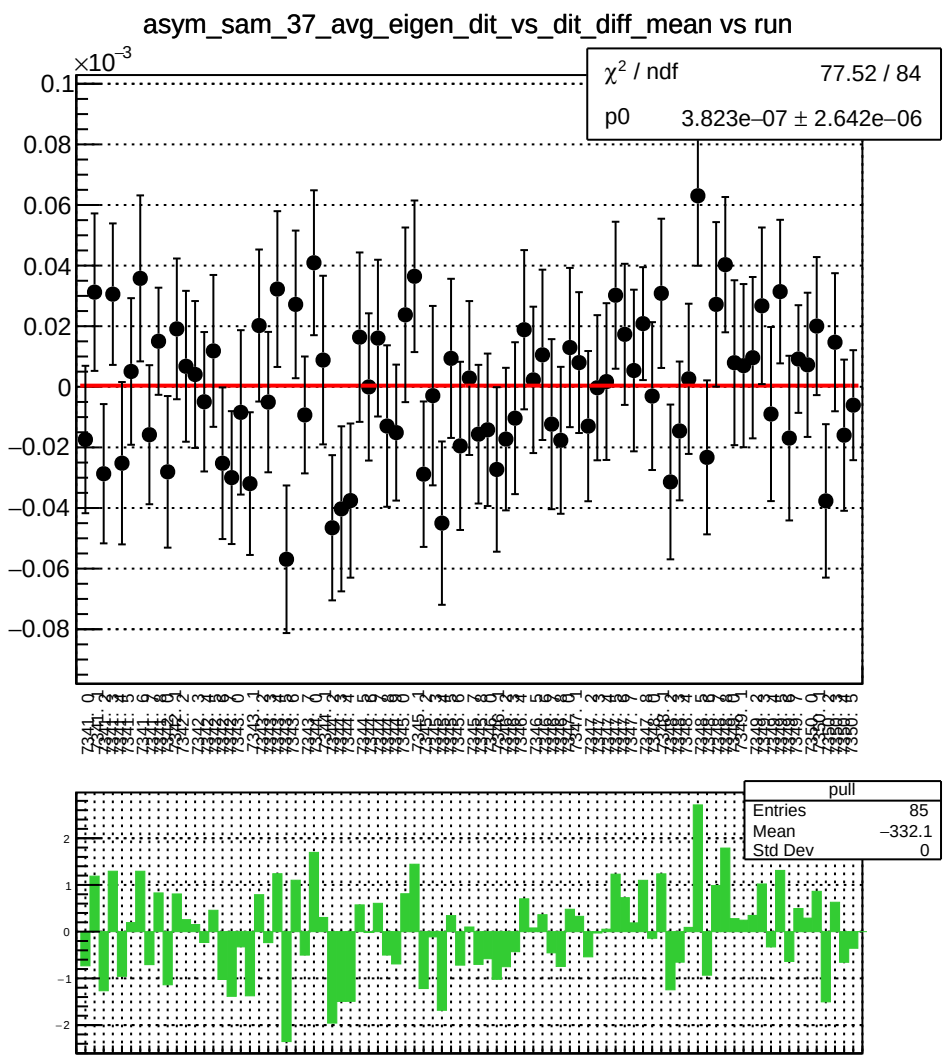

pull1D
Entries 85
Mean −0.01725
Std Dev 0.9885

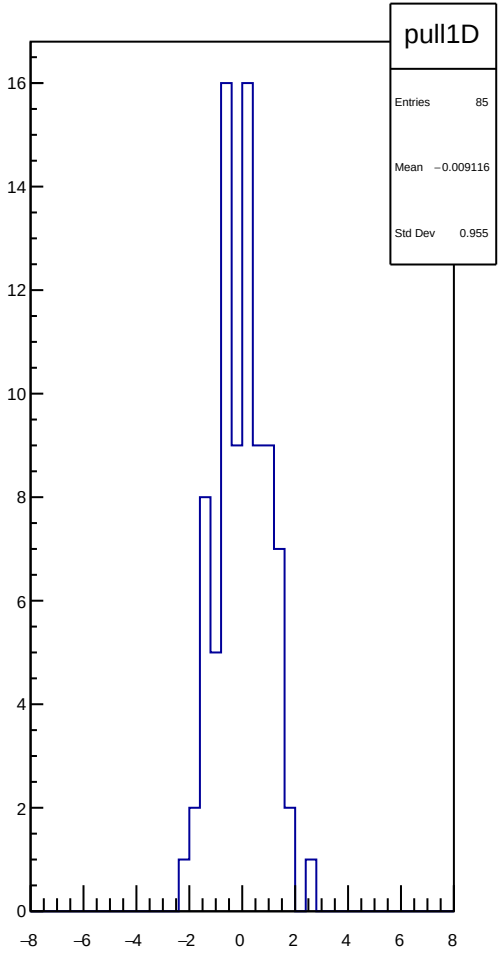

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.127e+04 / 84
p0 90.13 ± 0.07227
220
200
180
160
140
120
100
80

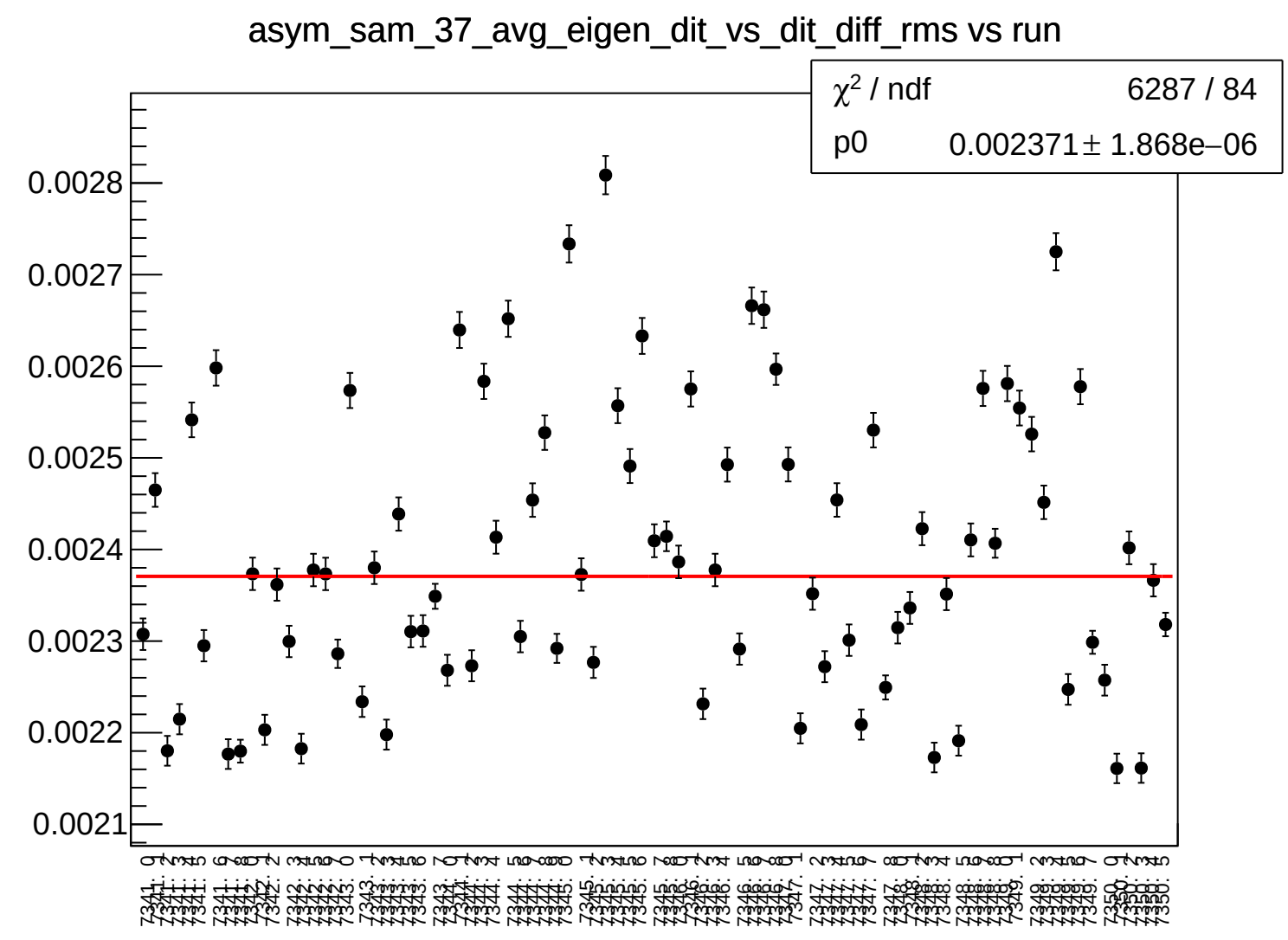

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.08 / 84
p0 0.02535 ± 0.1022
pull
Entries 85
Mean 32.31
Std Dev 11.64

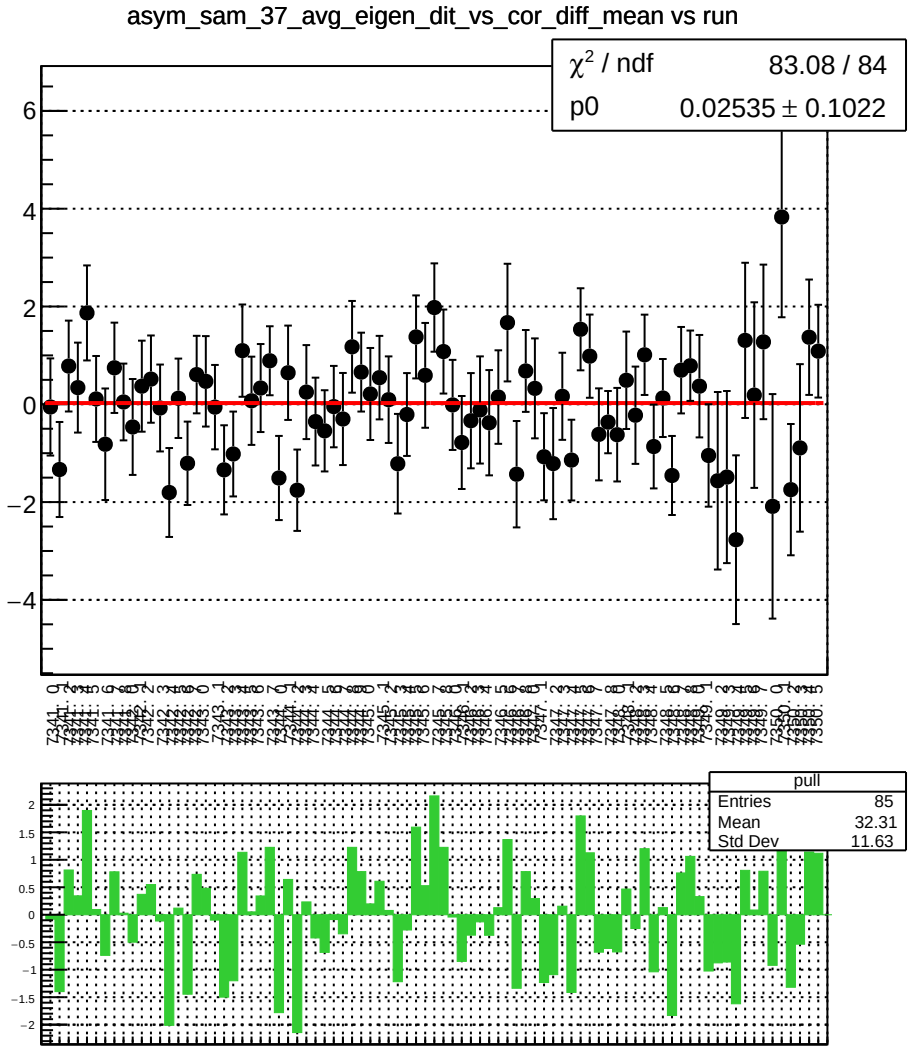

pull1D
Entries 85
Mean −0.01725
Std Dev 0.9885

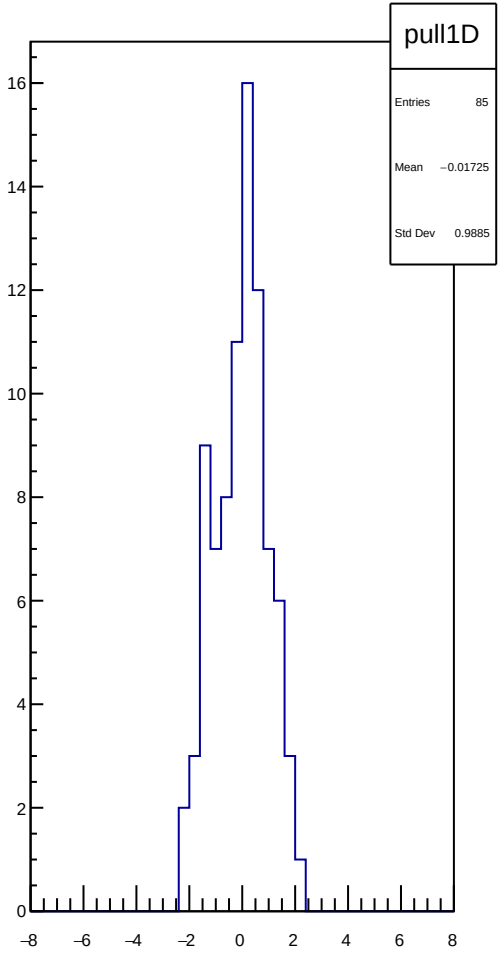

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.127e+04 / 84
p0 90.13 ± 0.07227
220
200
180
160
140
120
100
80

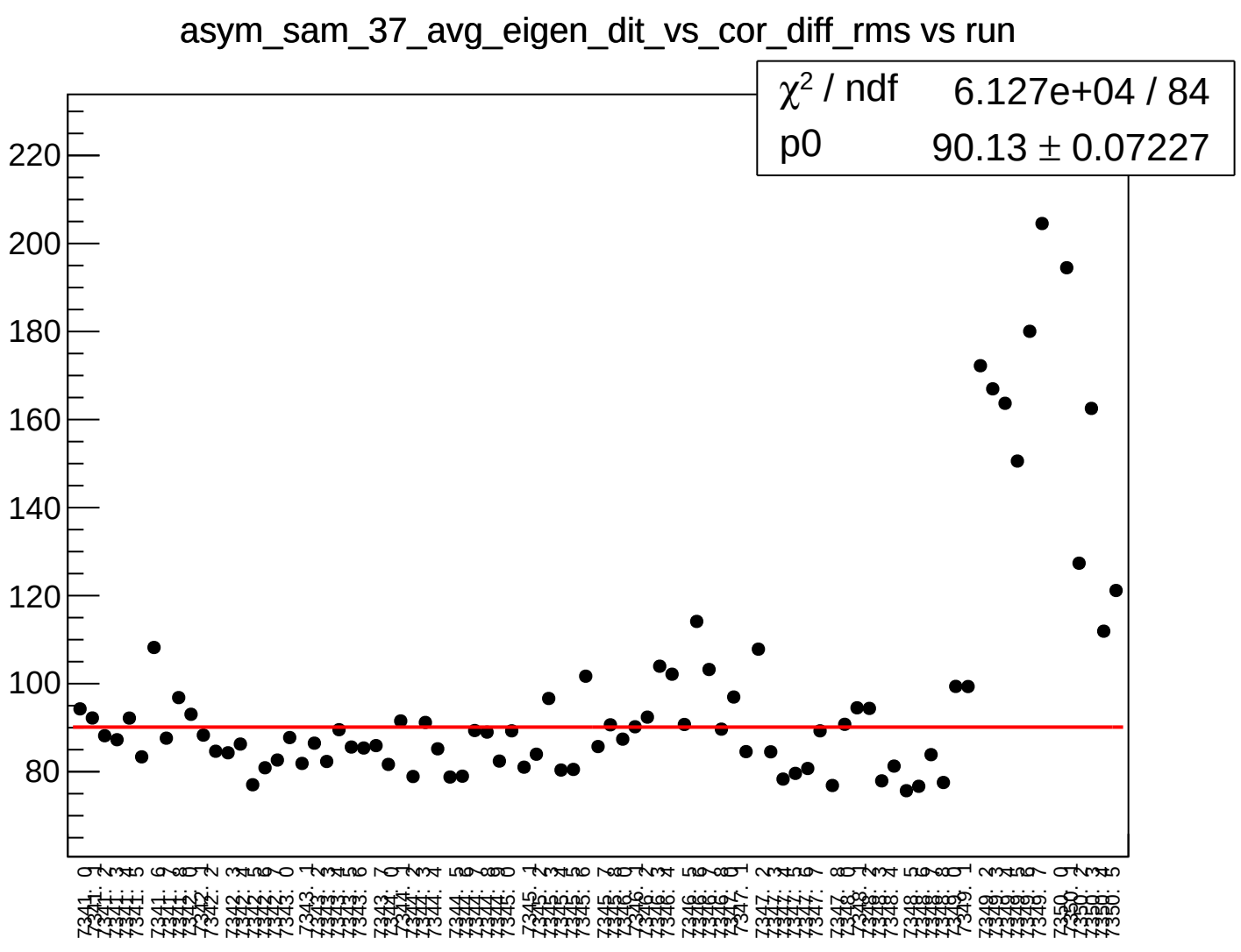

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.52 / 84
p0 3.823e−07 ± 2.642e−06
pull
Entries 85
Mean −332.1
Std Dev 0

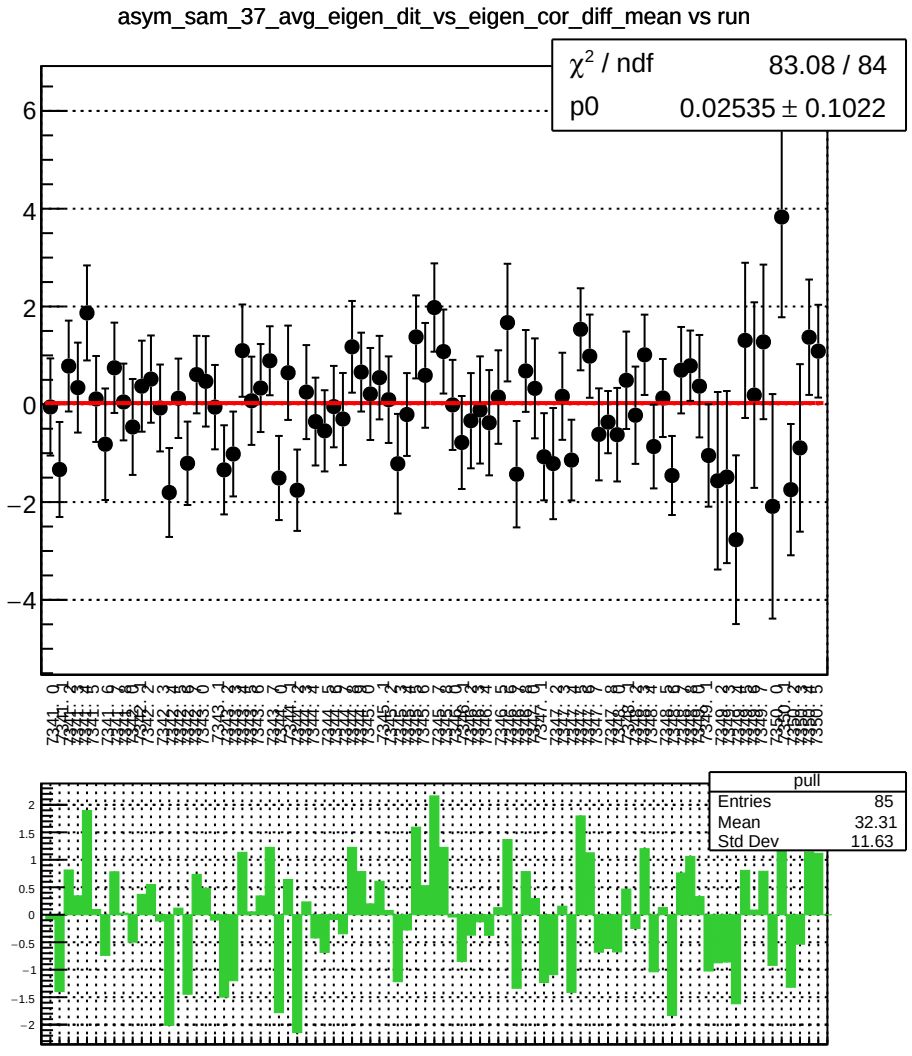

pull1D
Entries 85
Mean −0.009116
Std Dev 0.955

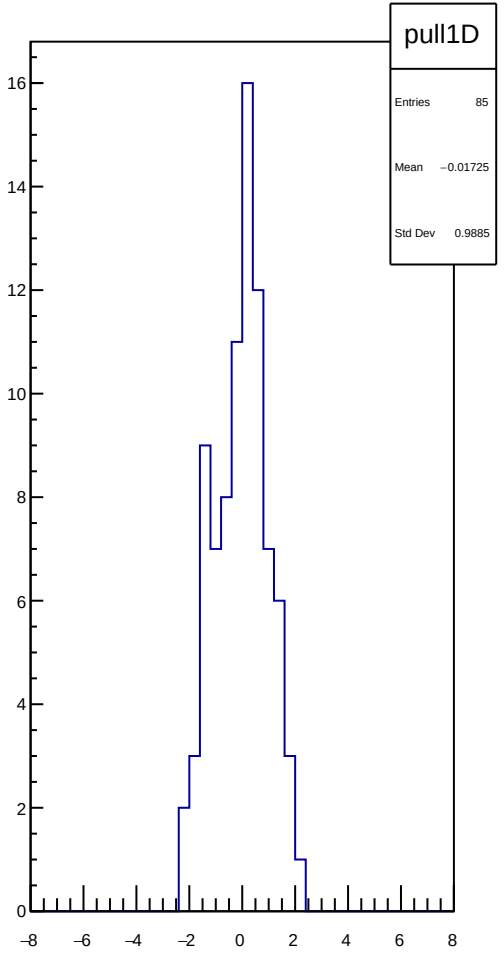

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6287 / 84
p0 0.002371 ± 1.868e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

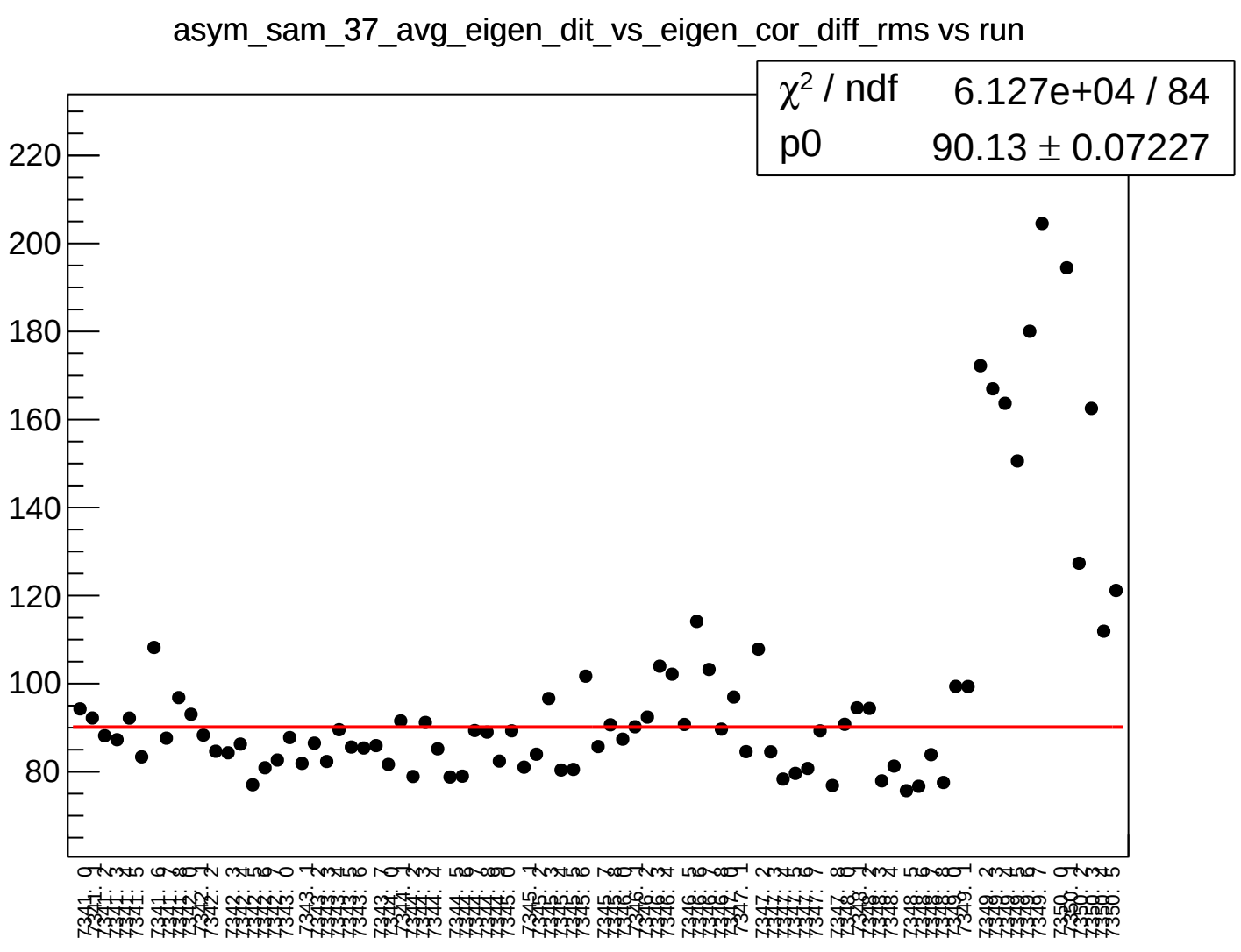

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.08 / 84
p0 0.02535 ± 0.1022
pull
Entries 85
Mean 32.31
Std Dev 11.63

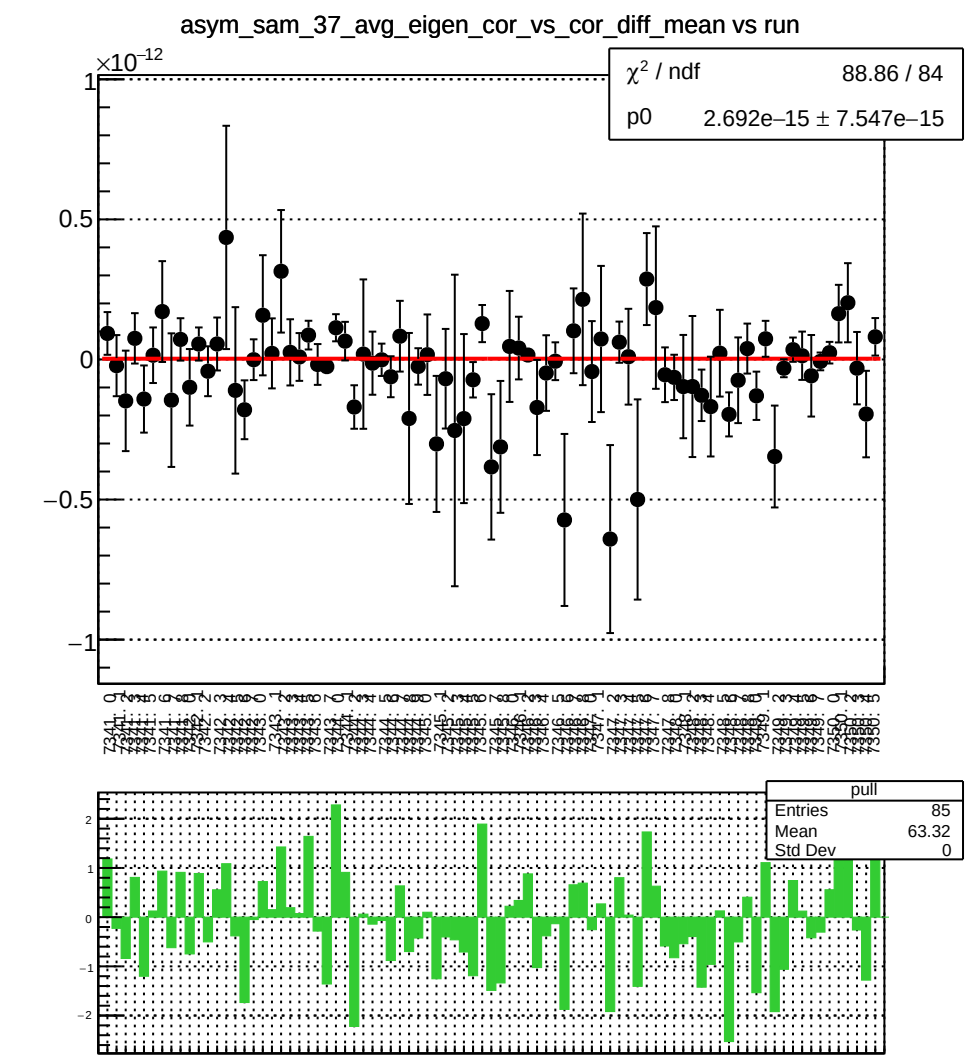

pull1D
Entries 85
Mean −0.01725
Std Dev 0.9885

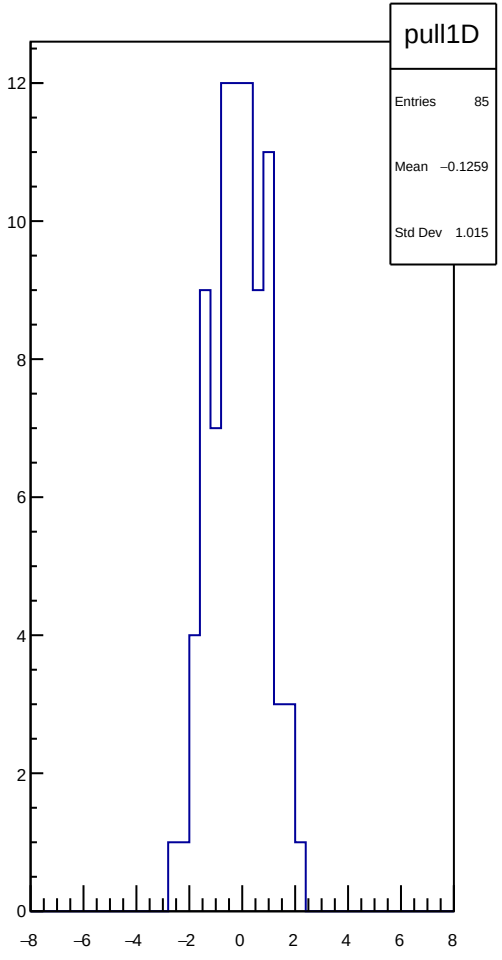

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.127e+04 / 84
p0 90.13 ± 0.07227
220
200
180
160
140
120
100
80

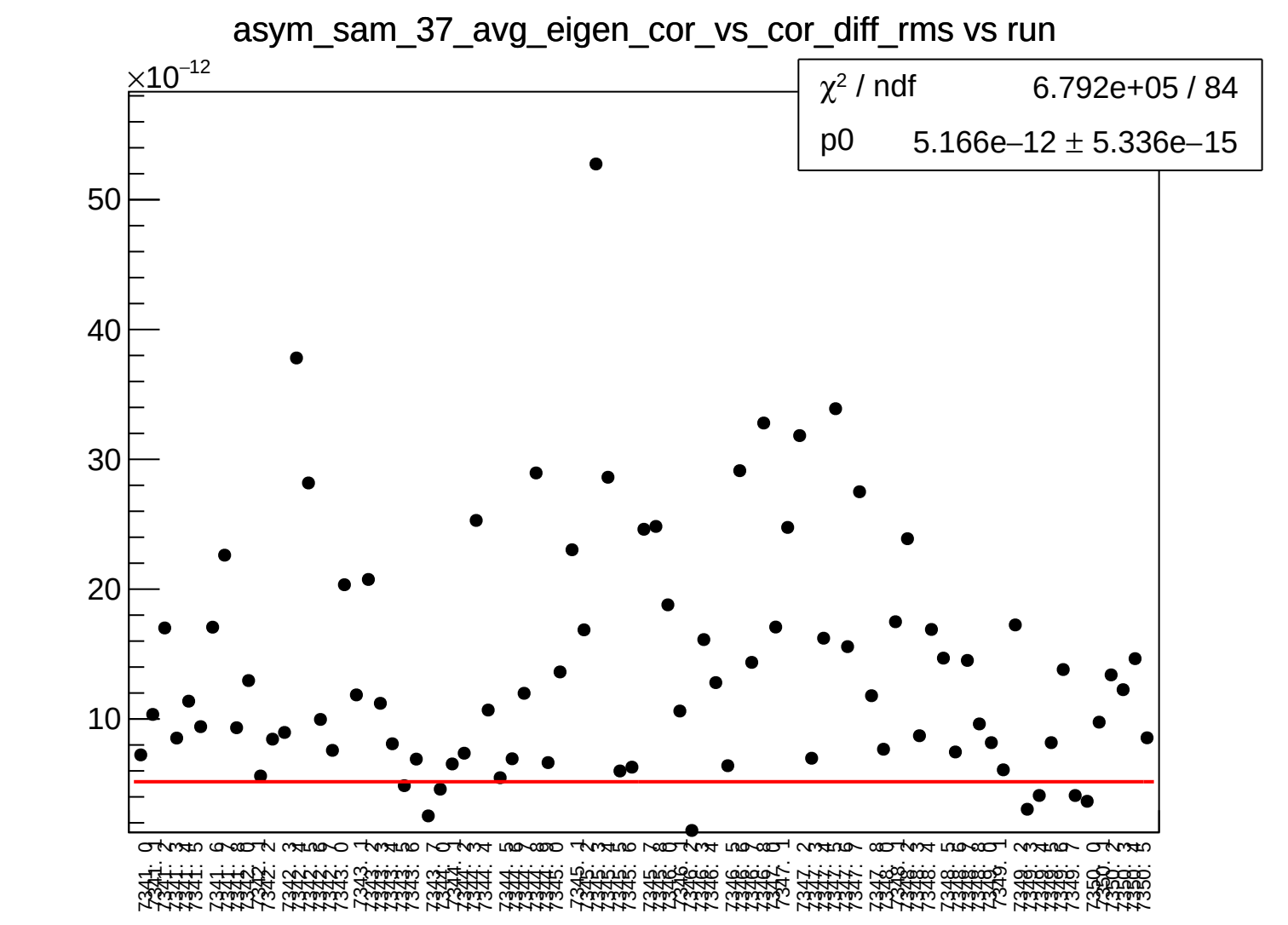

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.08 / 84
p0 0.02535 ± 0.1022
pull
Entries 85
Mean 32.31
Std Dev 11.63

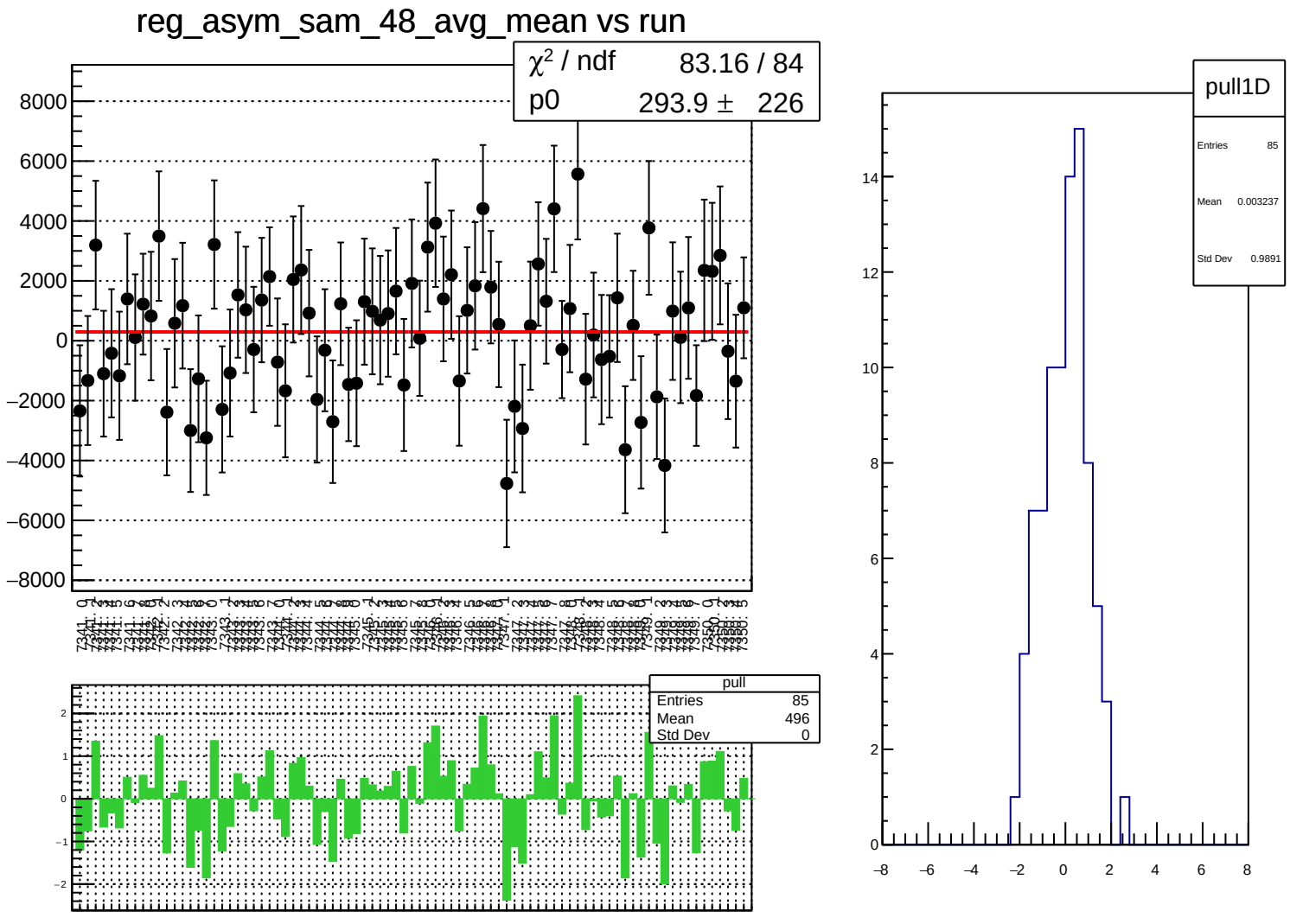

pull1D
Entries 85
Mean −0.01725
Std Dev 0.9885

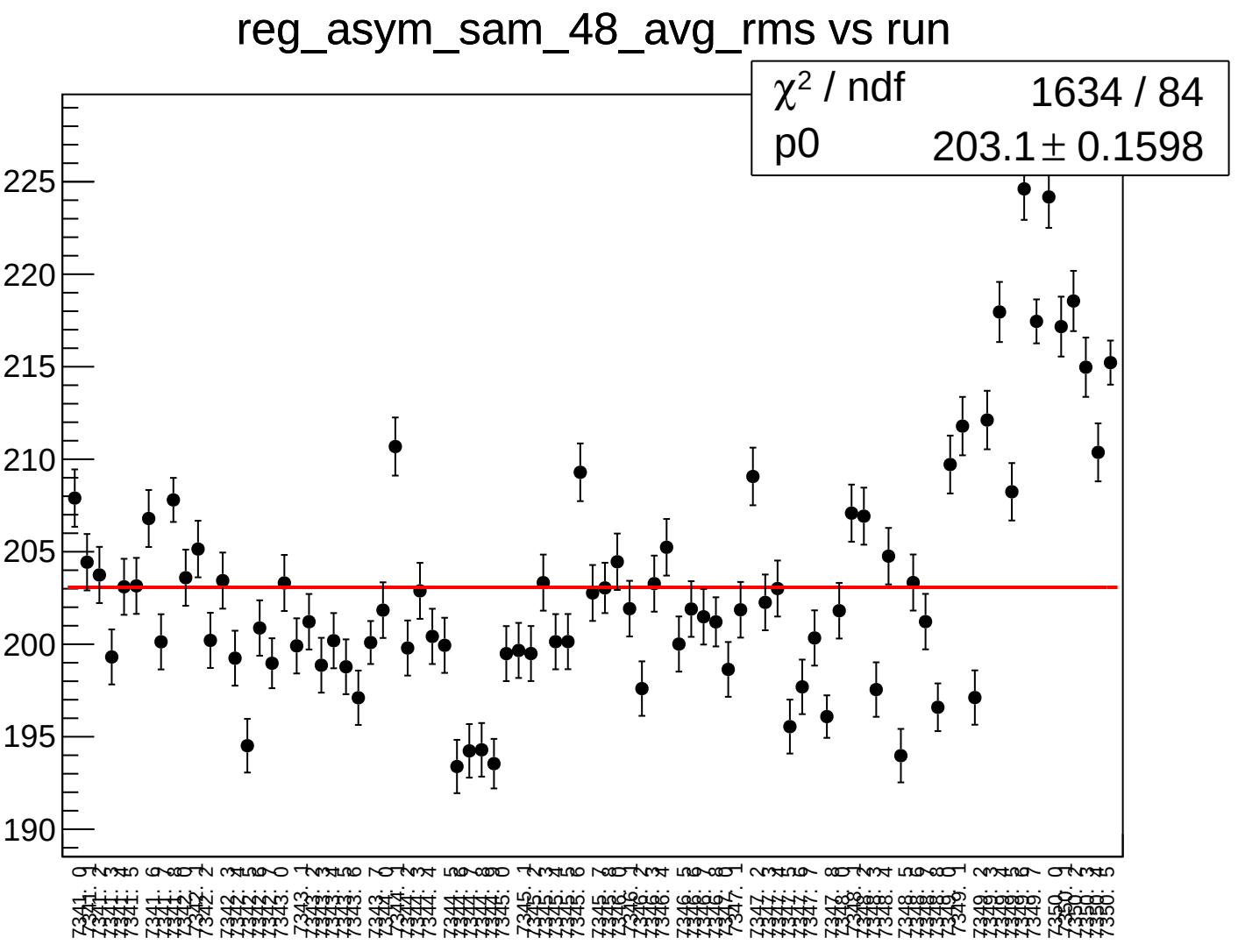

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.127e+04 / 84
p0 90.13 ± 0.07227
220
200
180
160
140
120
100
80

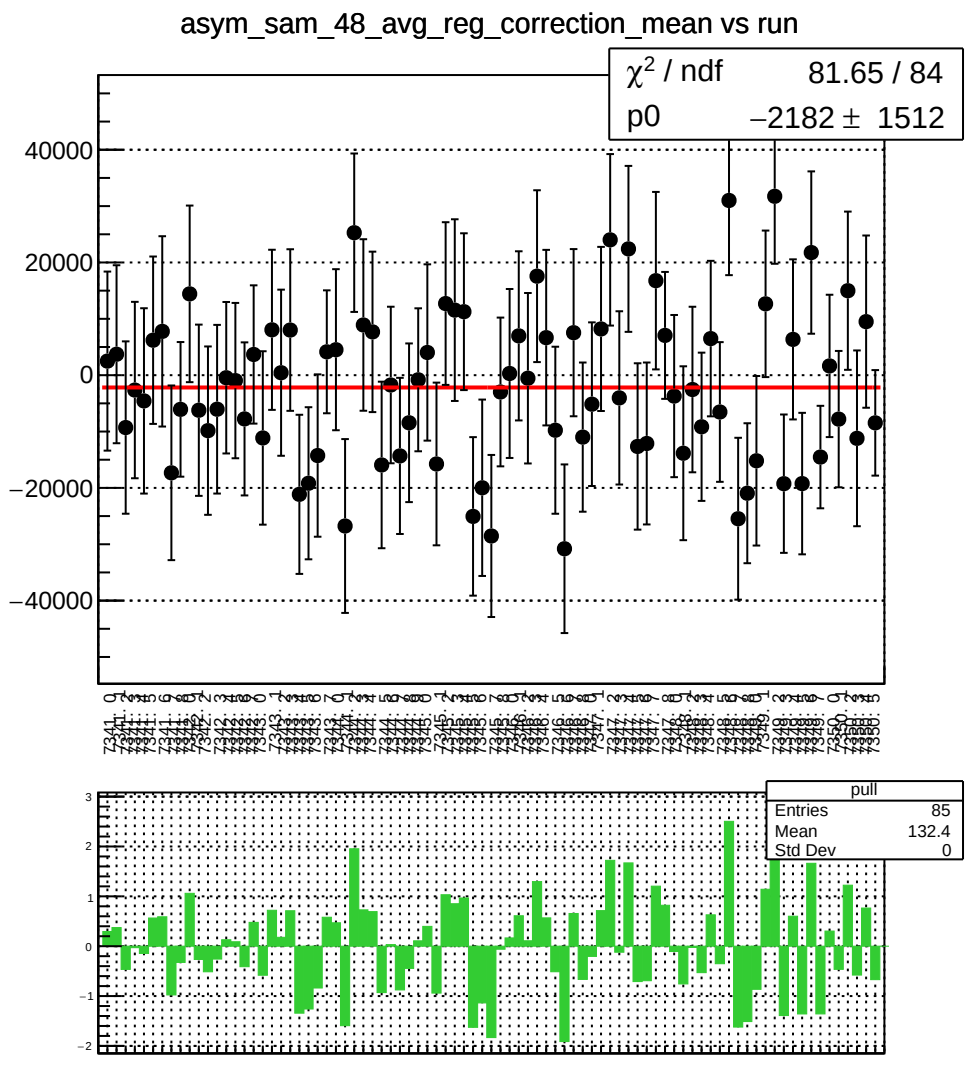

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.86 / 84
p0 2.692e−15 ± 7.547e−15
pull
Entries 85
Mean 63.32
Std Dev 0

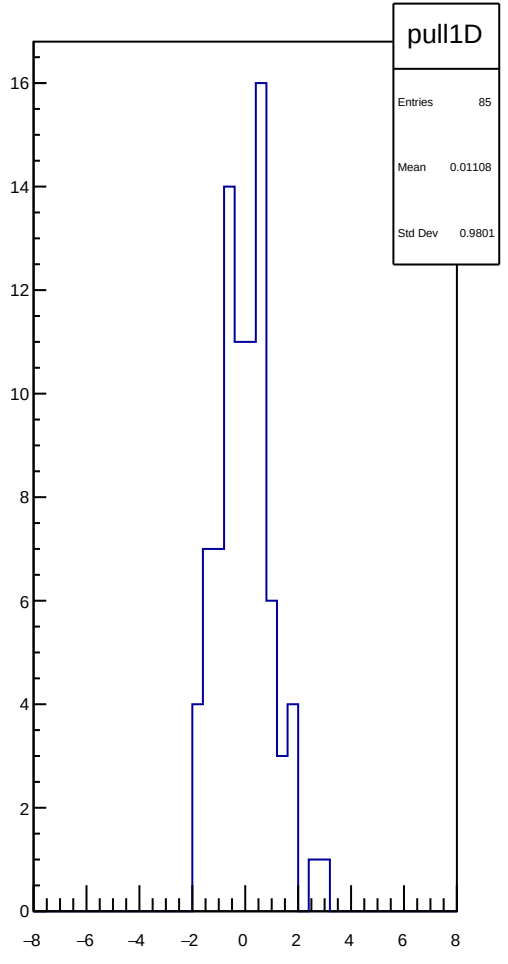

pull1D
Entries 85
Mean −0.1259
Std Dev 1.015

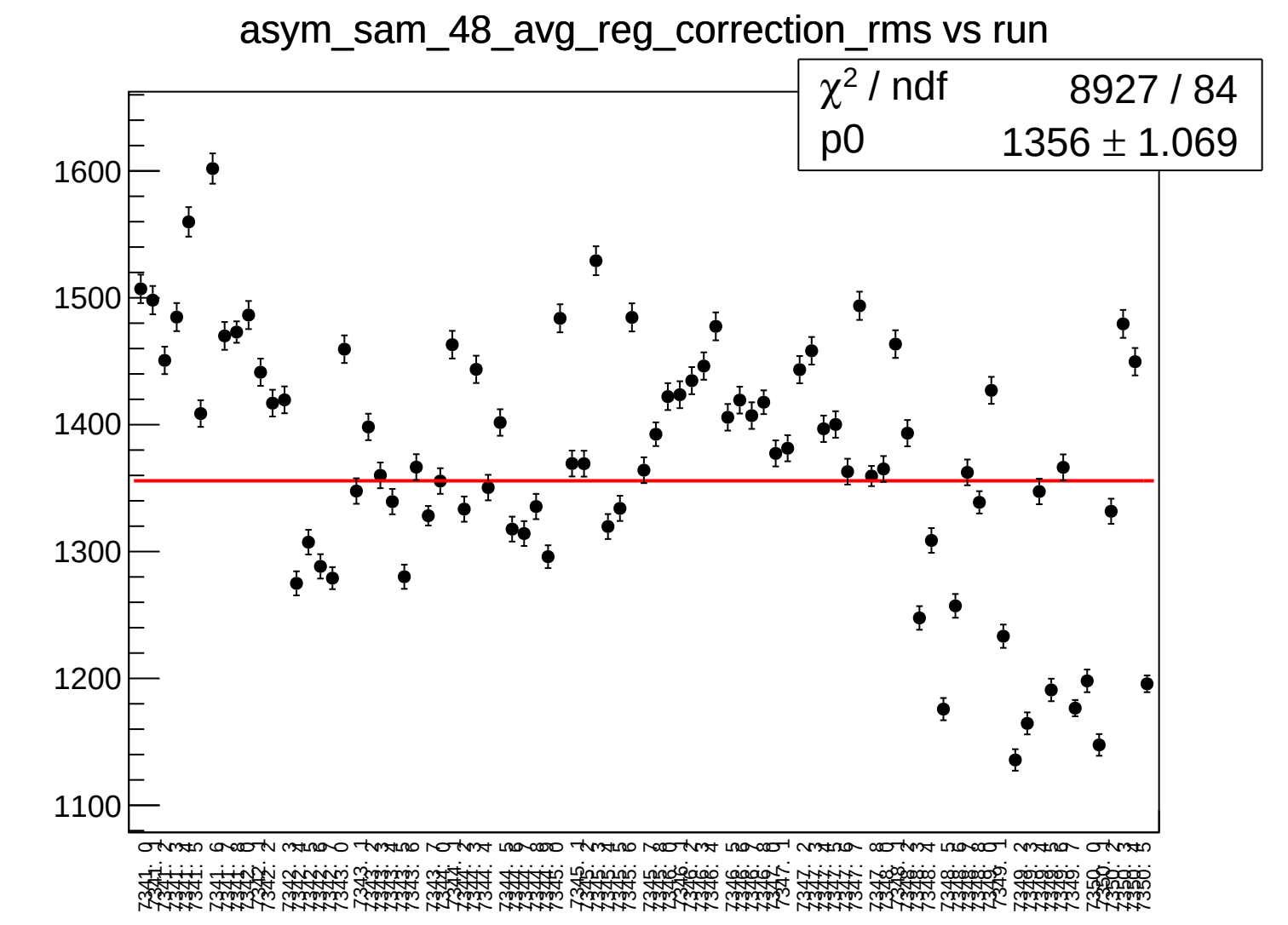

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.792e+05 / 84
p0 5.166e−12 ± 5.336e−15
50
40
30
20
10

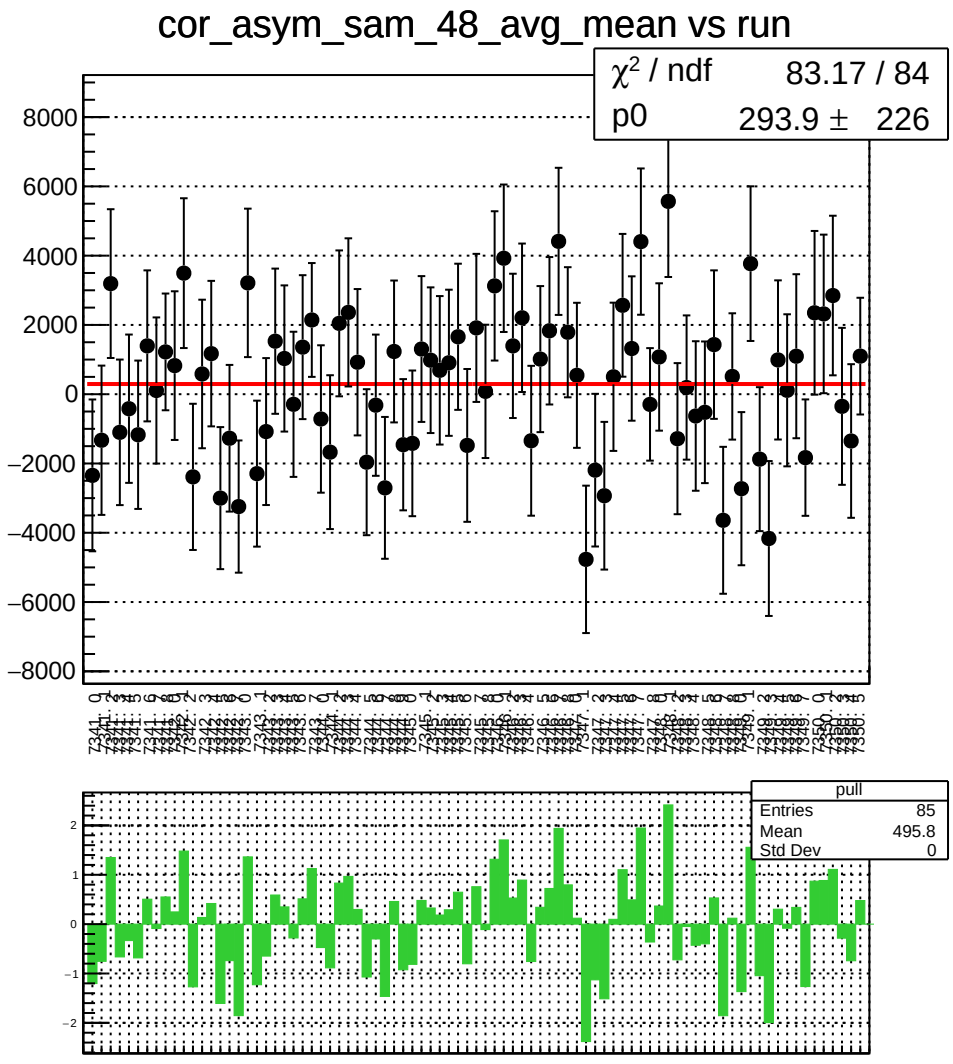

reg_asym_sam_48_avg_mean vs run
χ^2 / ndf 83.16 / 84
p0 293.9 ± 226
pull
Entries 85
Mean 496
Std Dev 0
pull1D
Entries 85
Mean 0.003237
Std Dev 0.9891

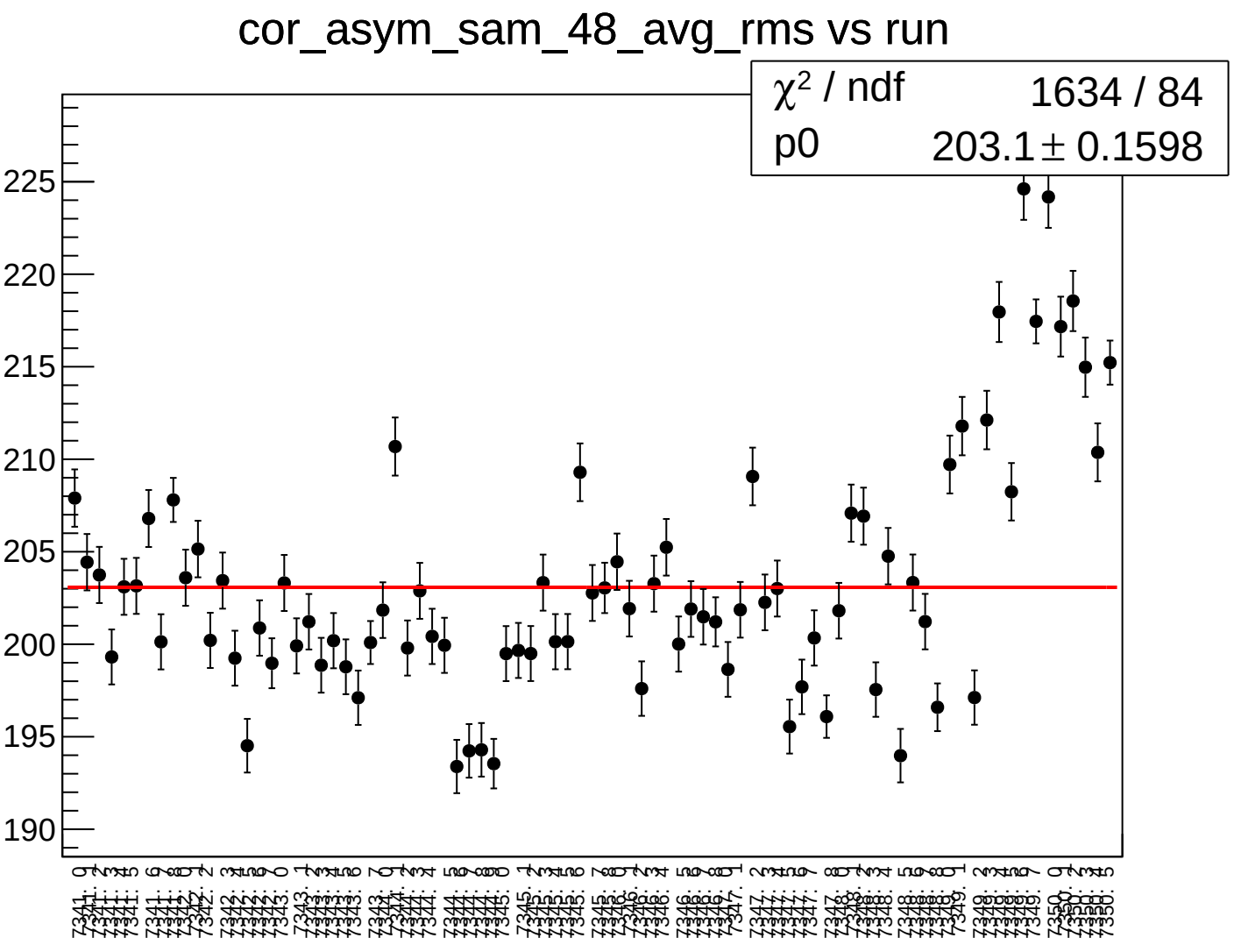

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1634 / 84
p0 203.1 ± 0.1598
225
220
215
210
205
200
195
190

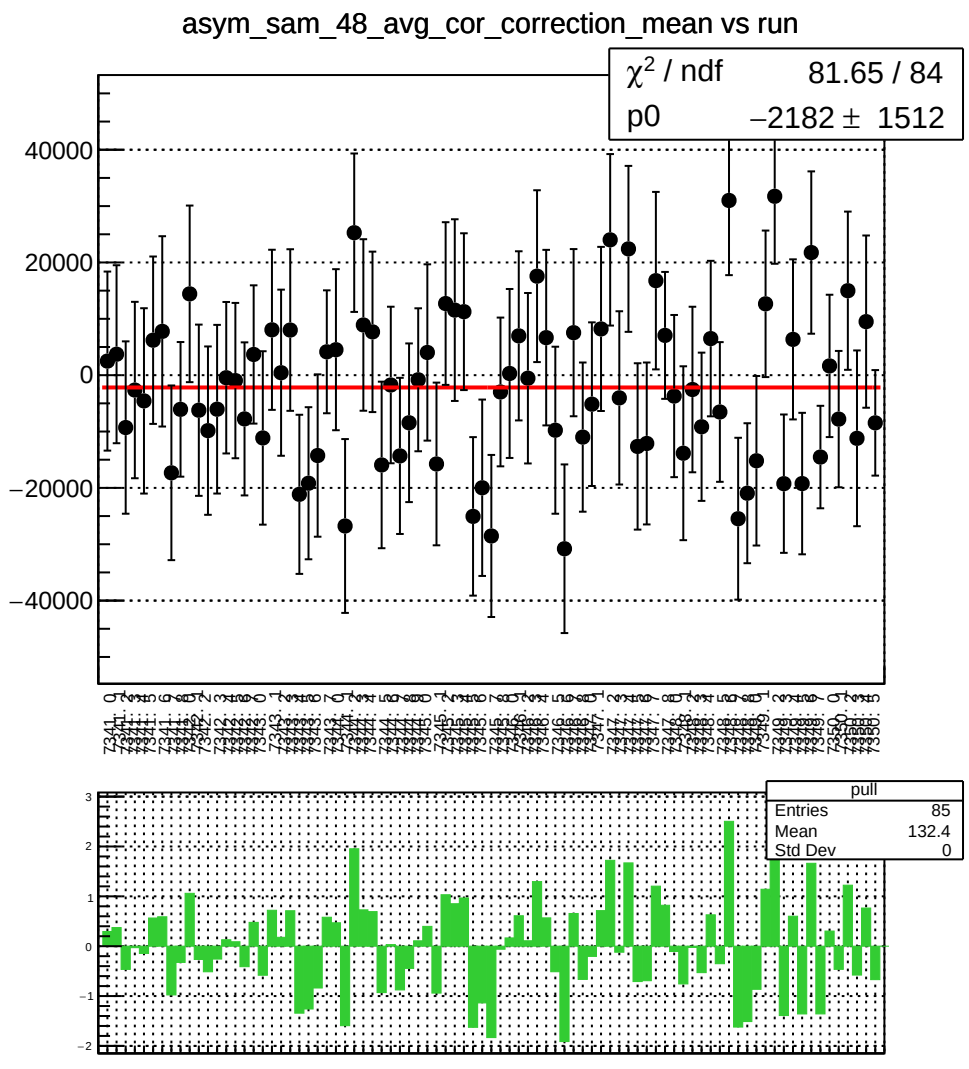

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 81.65 / 84
p0 −2182 ± 1512
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 132.4
Std Dev 0
3
2
1
0
−1
−2

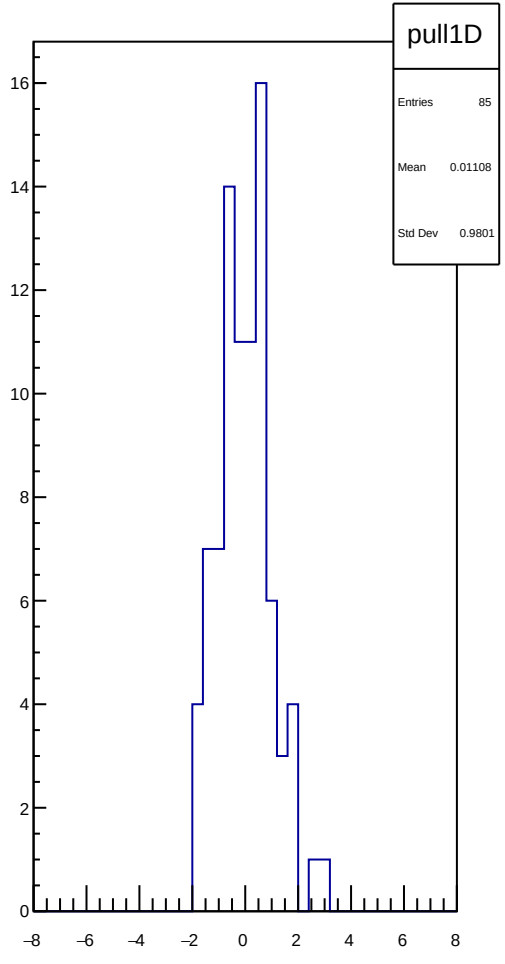

pull1D
Entries 85
Mean 0.01108
Std Dev 0.9801
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

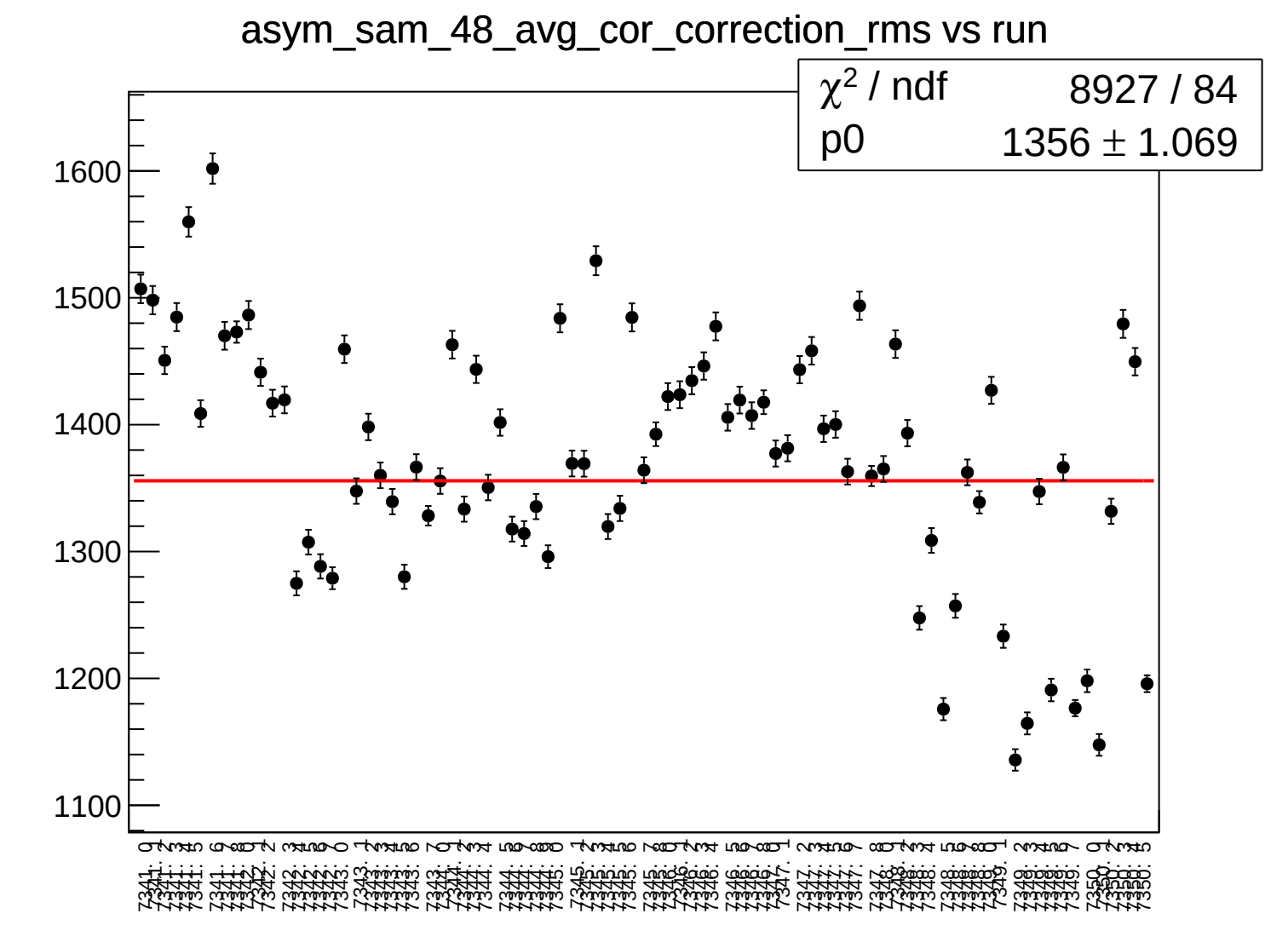

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 8927 / 84
p0 1356 ± 1.069
1600
1500
1400
1300
1200
1100

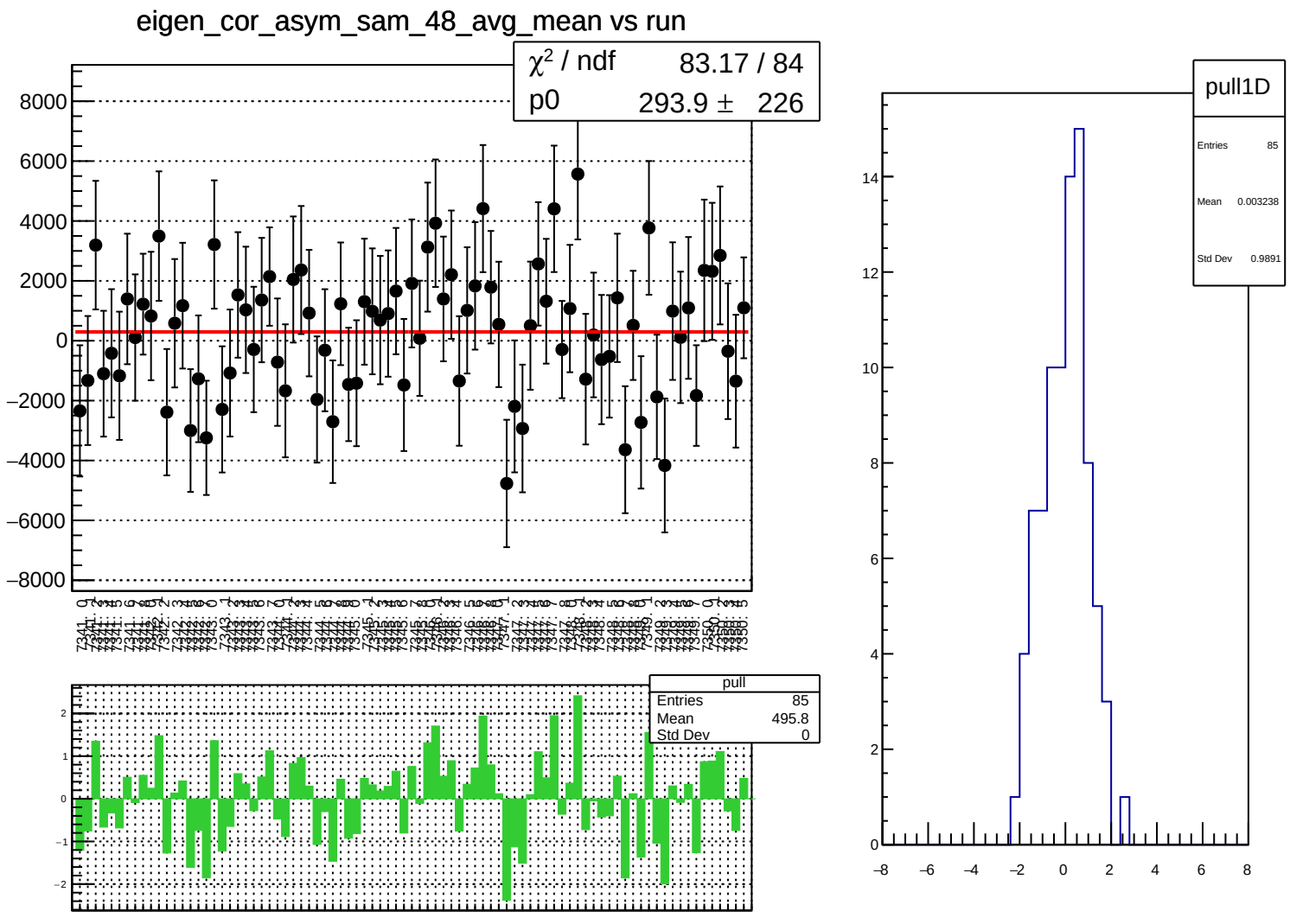

cor_asym_sam_48_avg_mean vs run
χ² / ndf 83.17 / 84
p0 293.9 ± 226
pull
Entries 85
Mean 495.8
Std Dev 0
pull1D
Entries 85
Mean 0.003238
Std Dev 0.9891

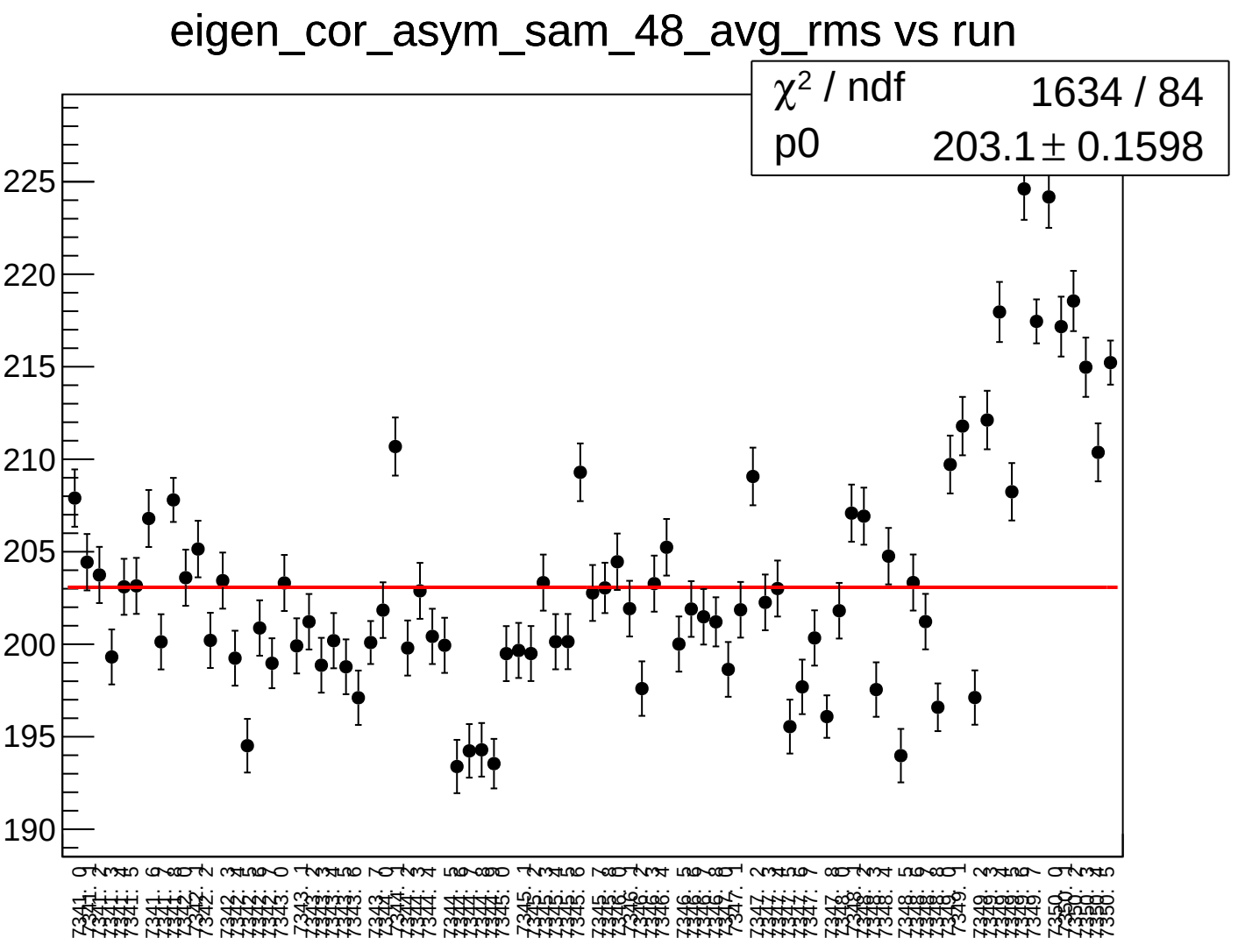

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1634 / 84
p0 203.1 ± 0.1598
225
220
215
210
205
200
195
190

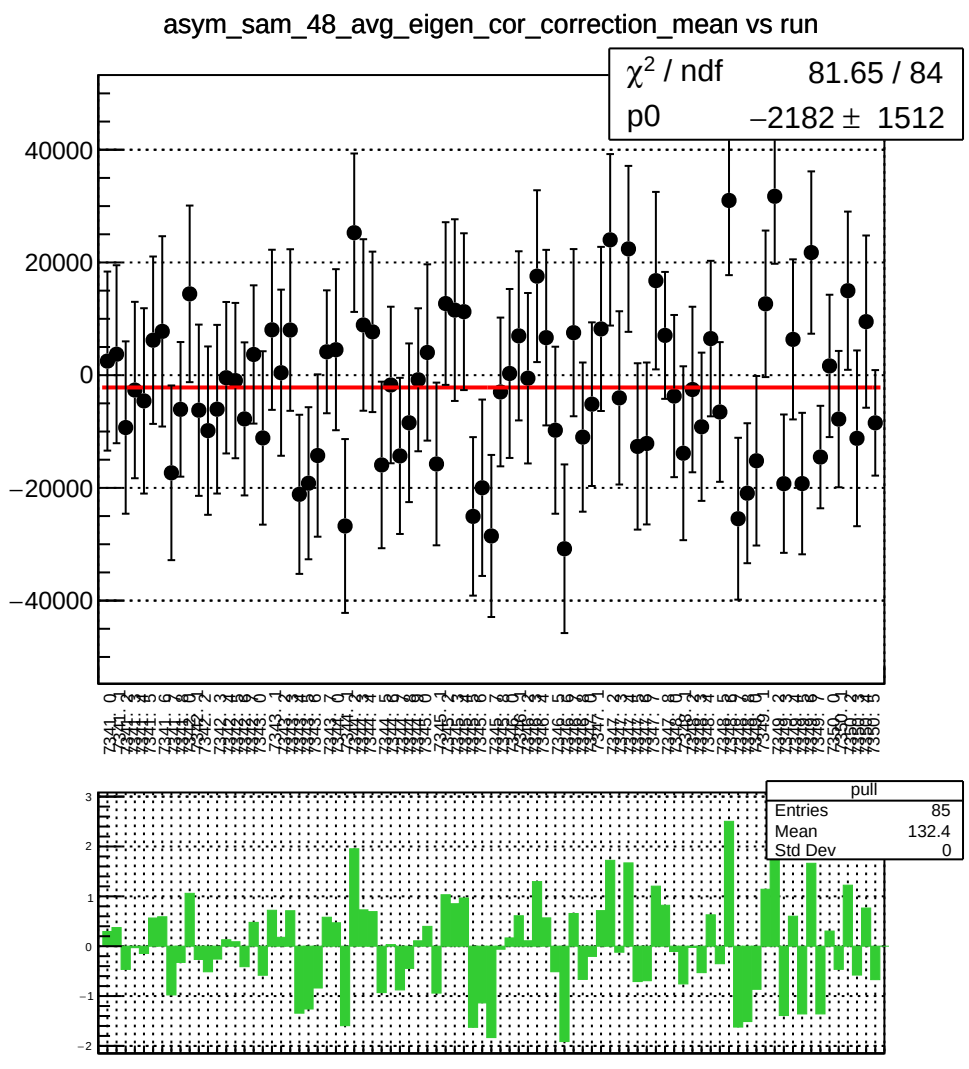

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 81.65 / 84
p0 −2182 ± 1512
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 132.4
Std Dev 0
3
2
1
0
−1
−2

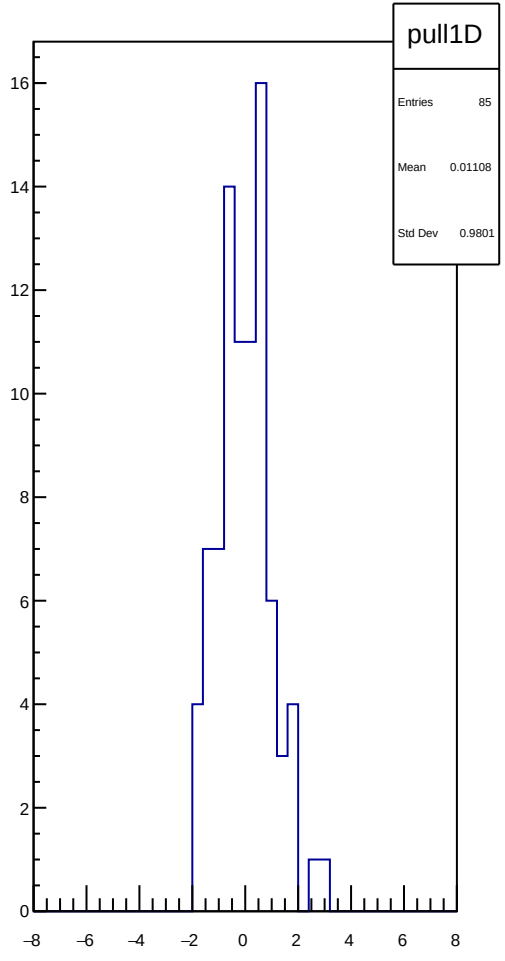

pull1D
Entries 85
Mean 0.01108
Std Dev 0.9801
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

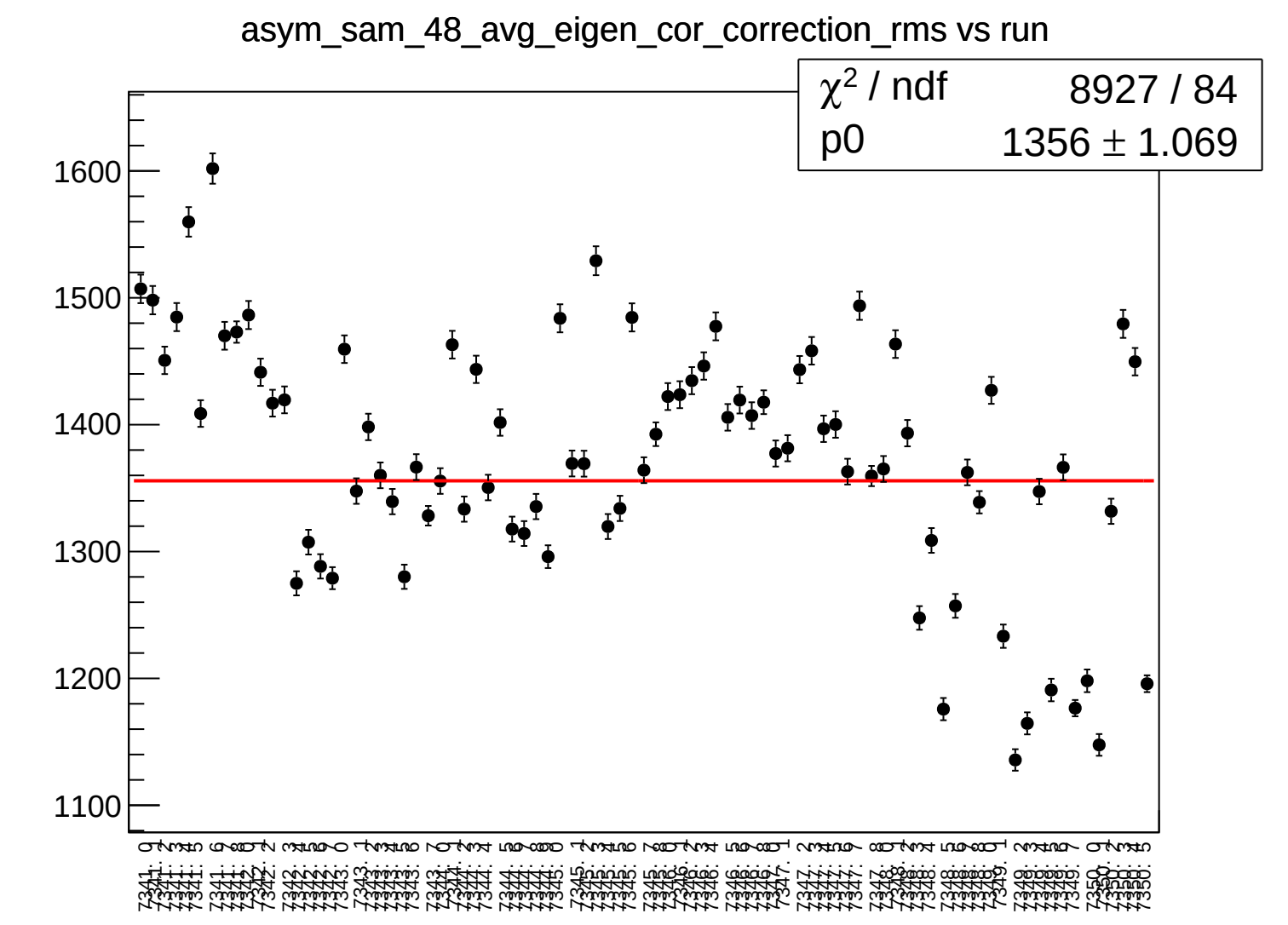

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 8927 / 84
p0 1356 ± 1.069
1600
1500
1400
1300
1200
1100

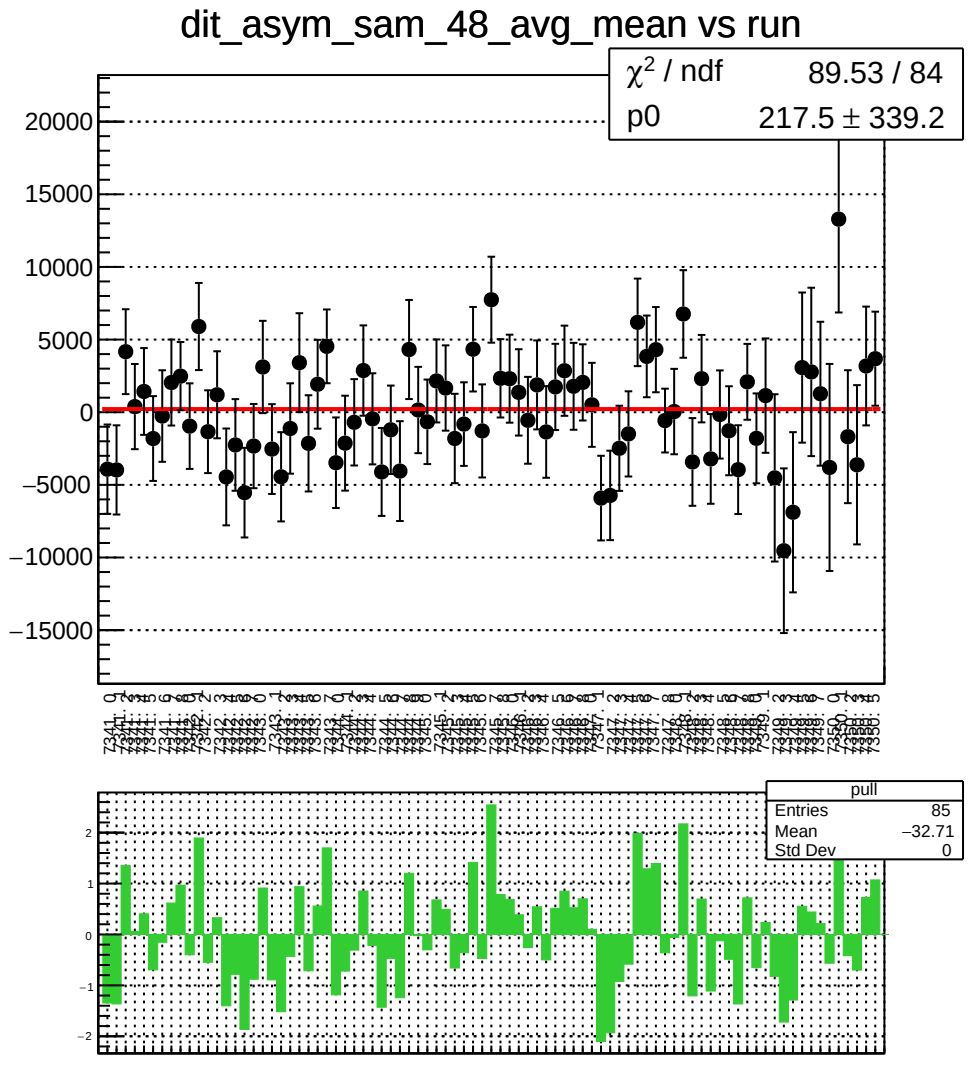

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 83.17 / 84
p0 293.9 ± 226
pull
Entries 85
Mean 495.8
Std Dev 0
pull1D
Entries 85
Mean 0.003238
Std Dev 0.9891

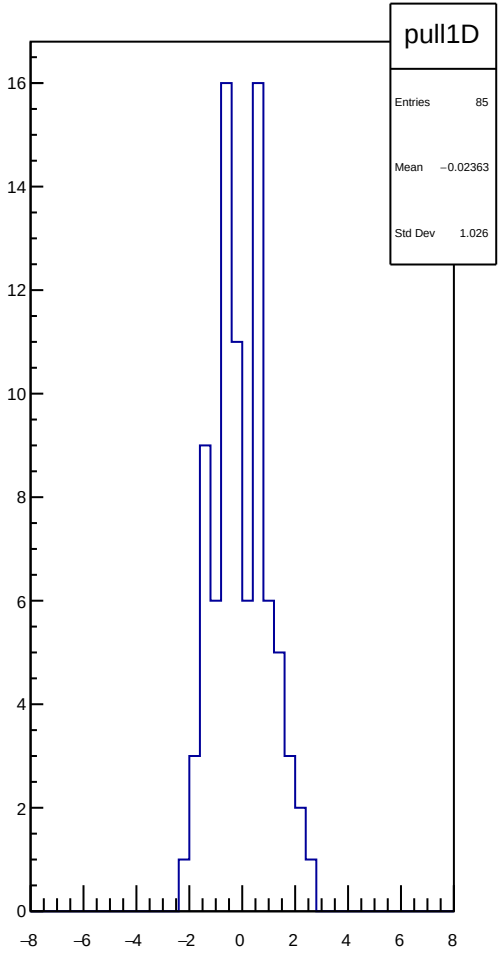

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1634 / 84
p0 203.1 ± 0.1598
225
220
215
210
205
200
195
190

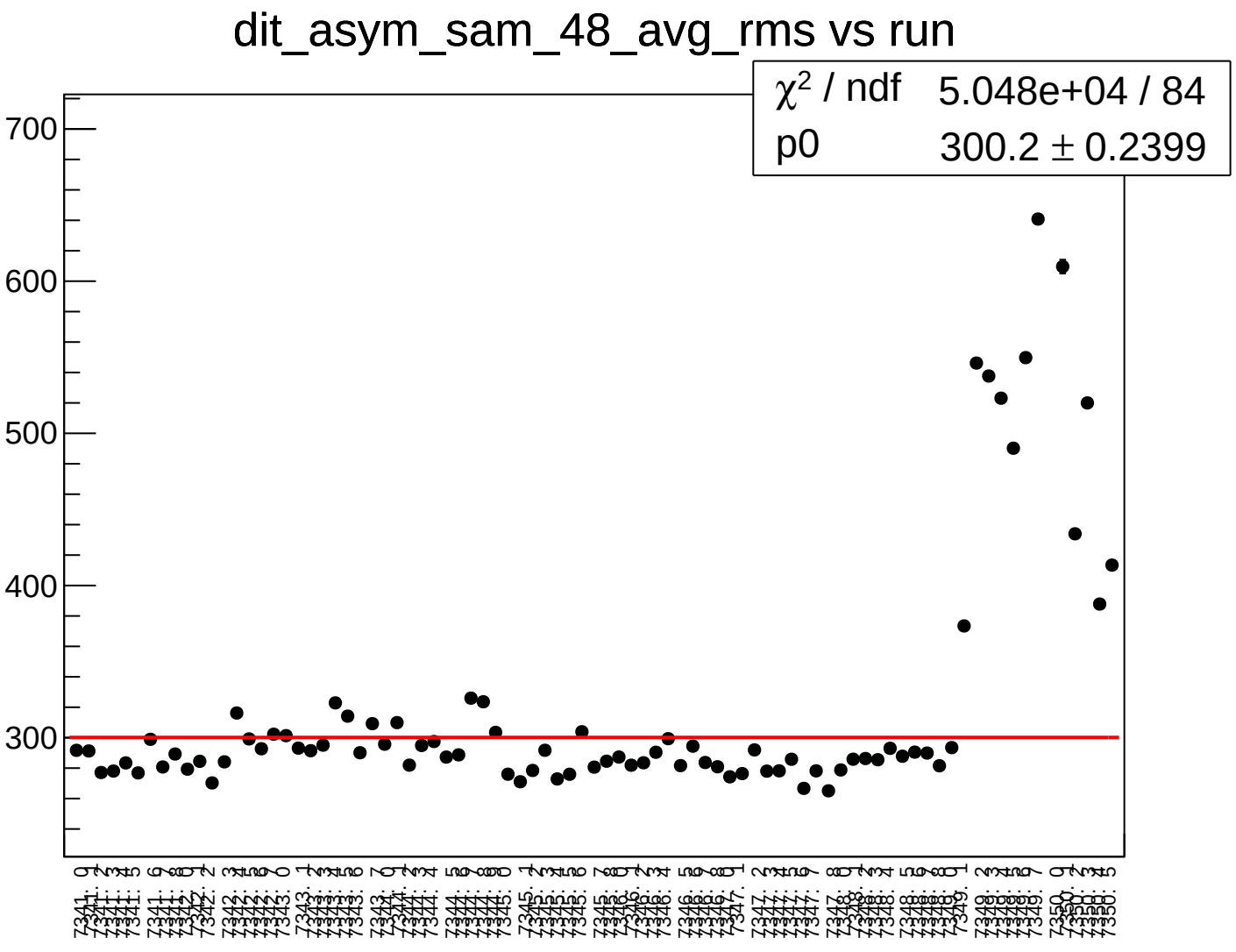

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.65 / 84
p0 −2182 ± 1512
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 132.4
Std Dev 0
3
2
1
0
−1
−2

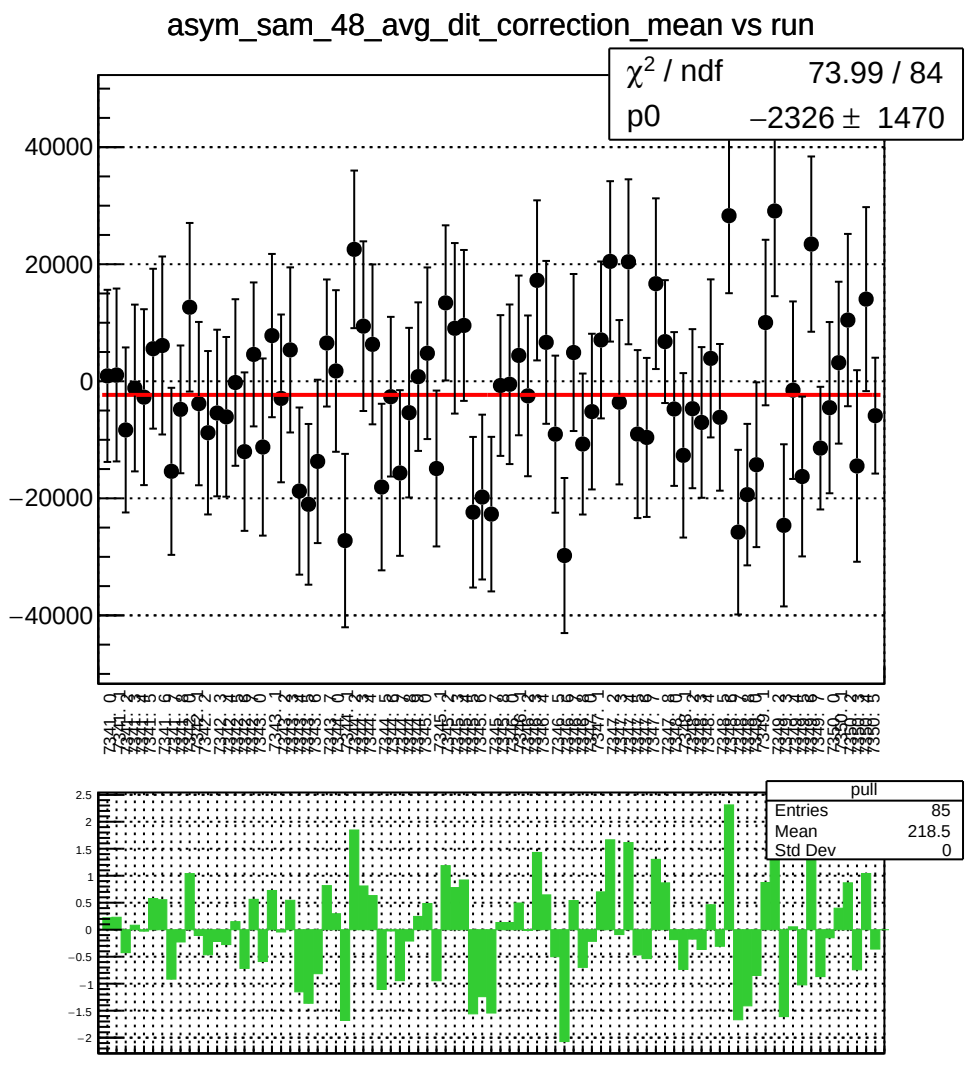

pull1D
Entries 85
Mean 0.01108
Std Dev 0.9801
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

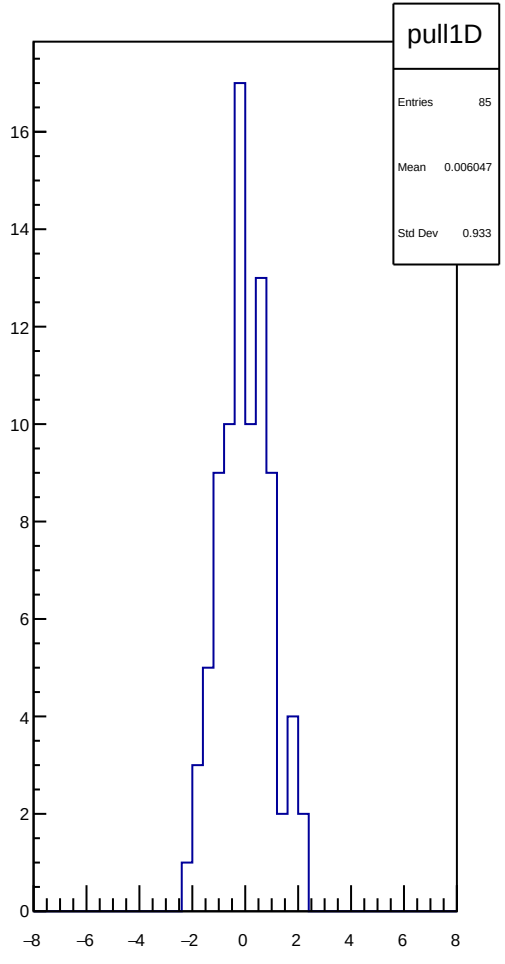

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 8927 / 84
p0 1356 ± 1.069
1600
1500
1400
1300
1200
1100

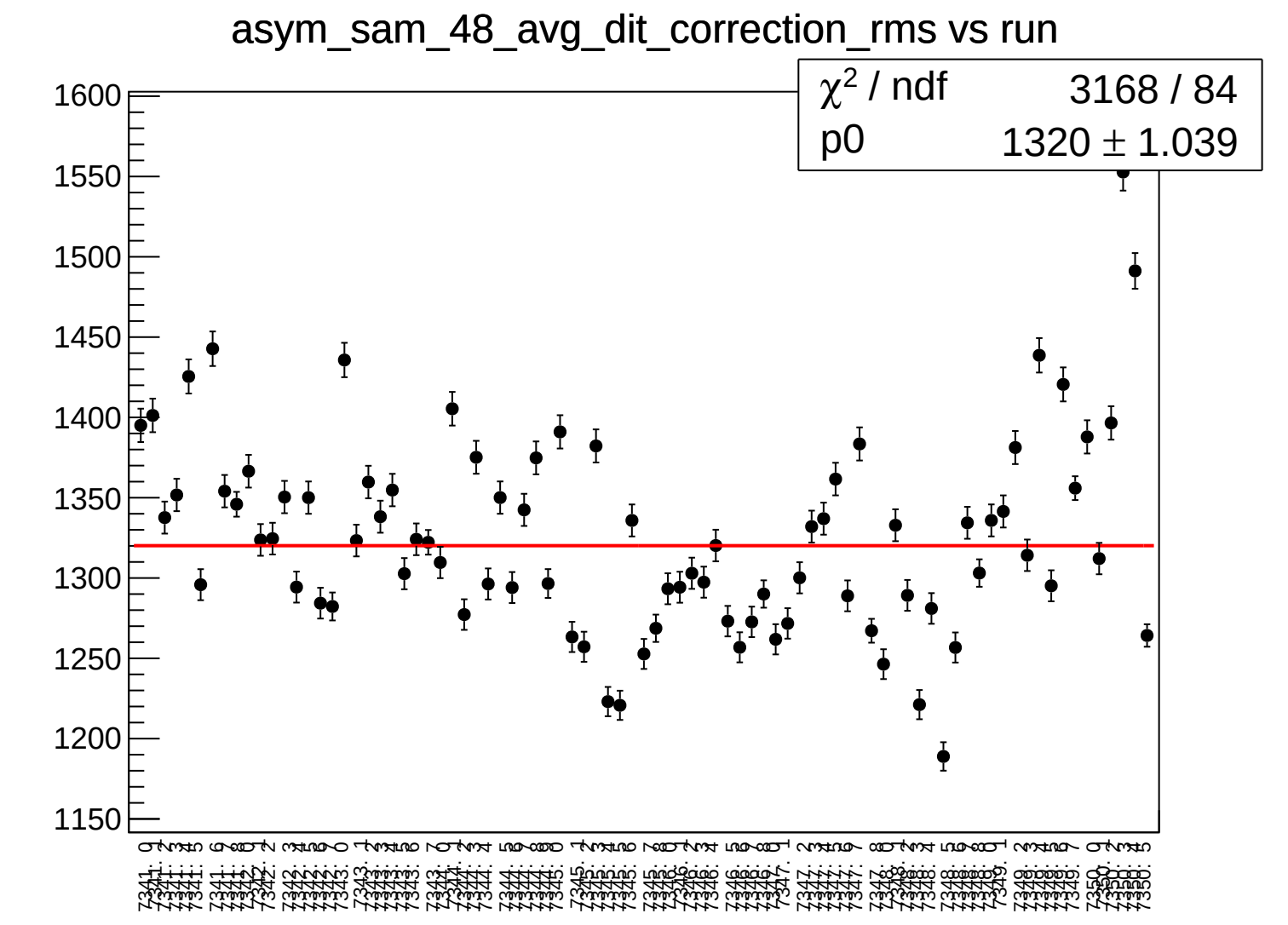

dit_asym_sam_48_avg_mean vs run
χ² / ndf 89.53 / 84
p0 217.5 ± 339.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −32.71
Std Dev 0
2
1
0
−1
−2

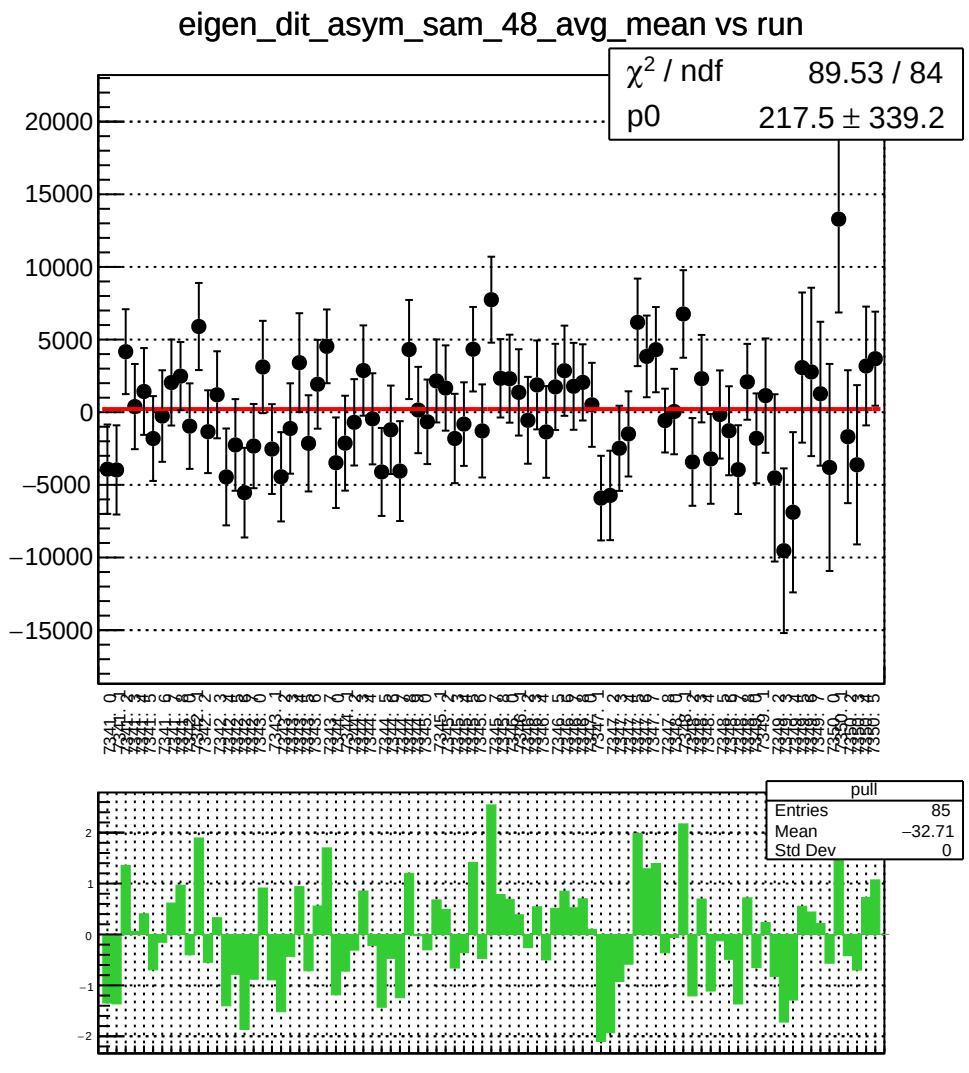

pull1D
Entries 85
Mean −0.02363
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

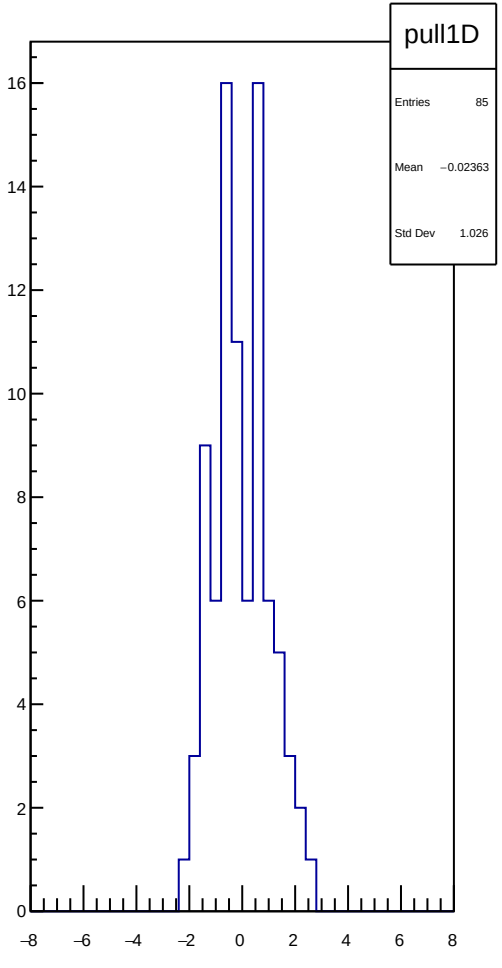

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 5.048e+04 / 84
p0 300.2 ± 0.2399
700
600
500
400
300

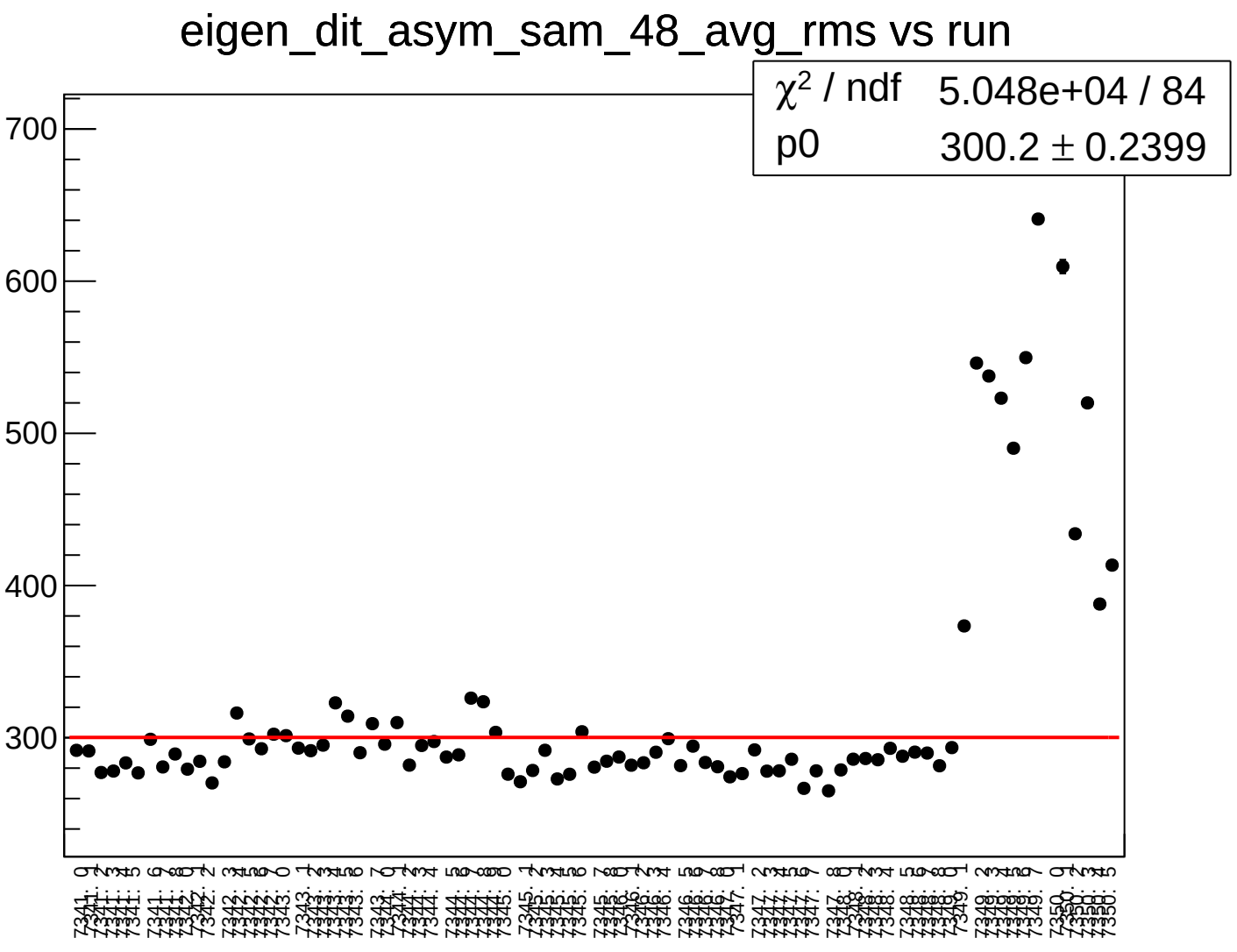

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 73.99 / 84
p0 −2326 ± 1470
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 218.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

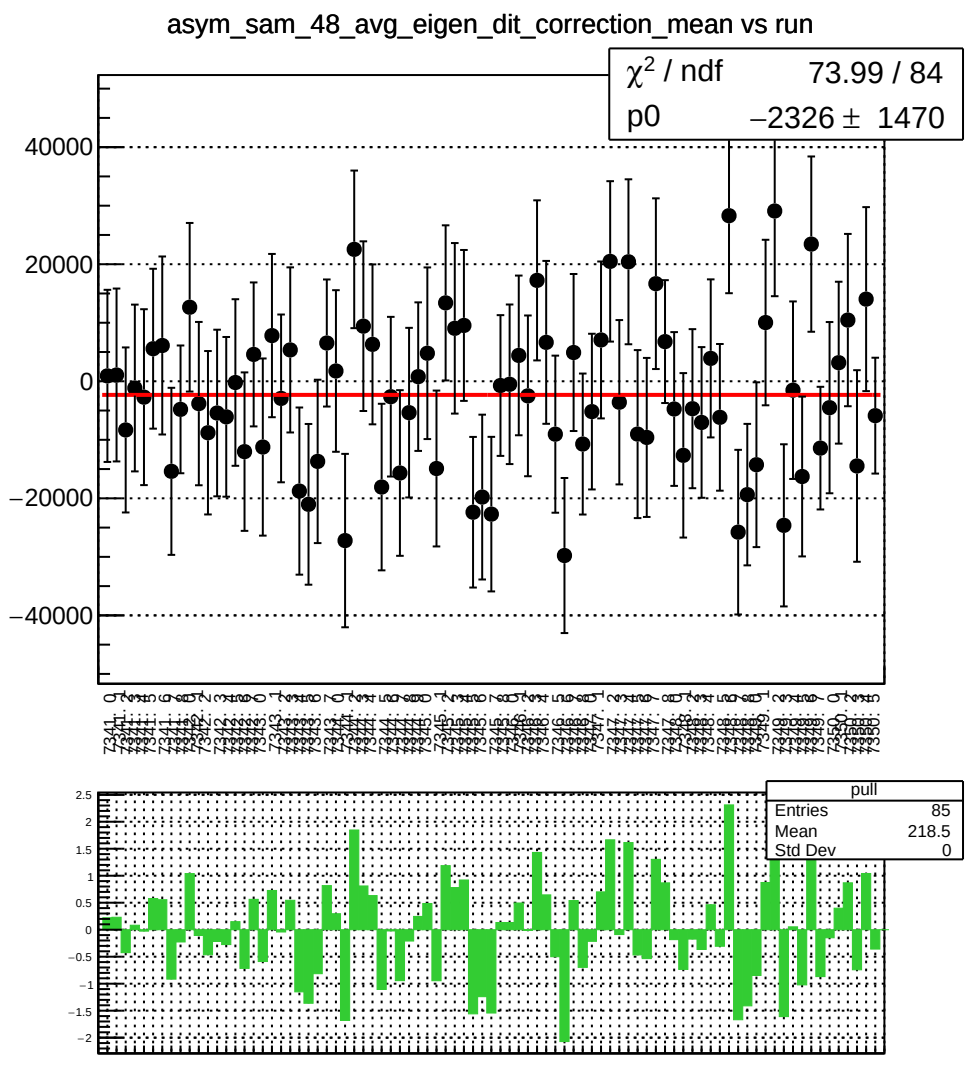

pull1D
Entries 85
Mean 0.006047
Std Dev 0.933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

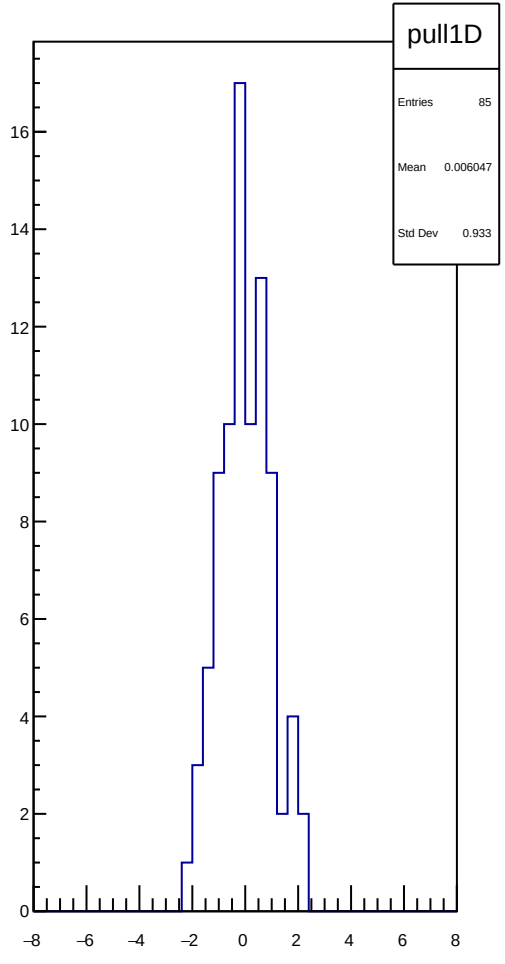

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 3168 / 84
p0 1320 ± 1.039
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

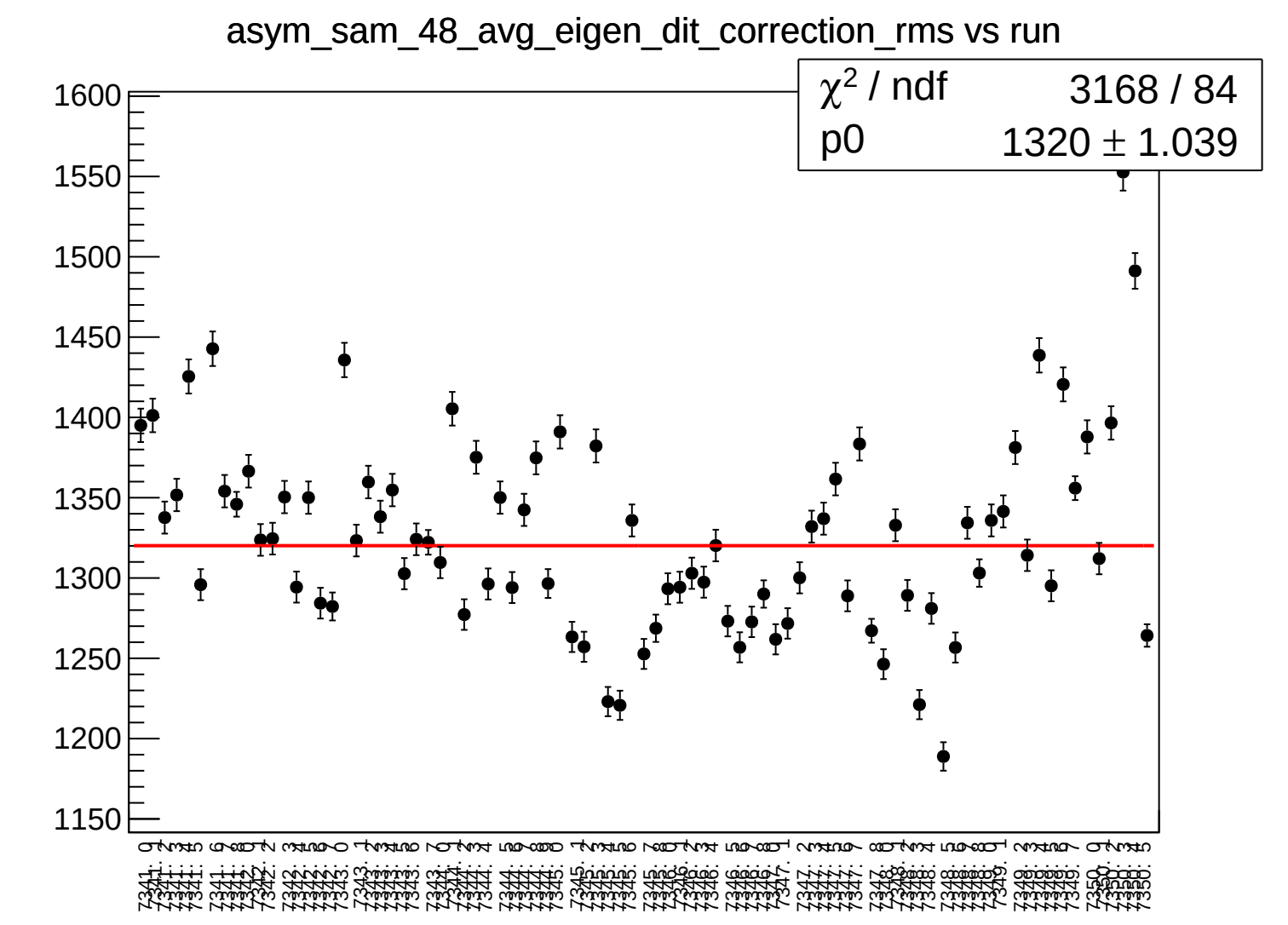

eigen_dit_asym_sam_48_avg_mean vs run
χ^2 / ndf 89.53 / 84
p0 217.5 ± 339.2
pull
Entries 85
Mean −32.71
Std Dev 0

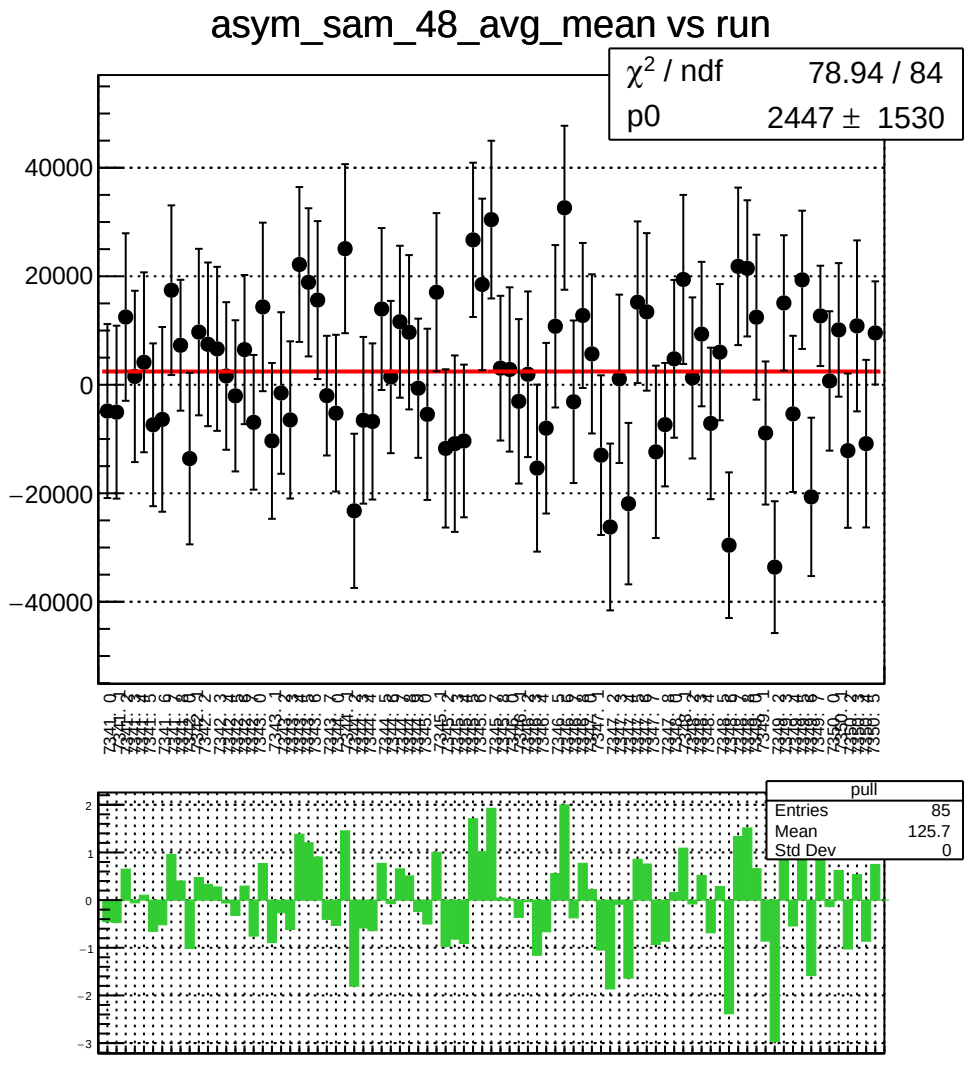

pull1D
Entries 85
Mean −0.02363
Std Dev 1.026

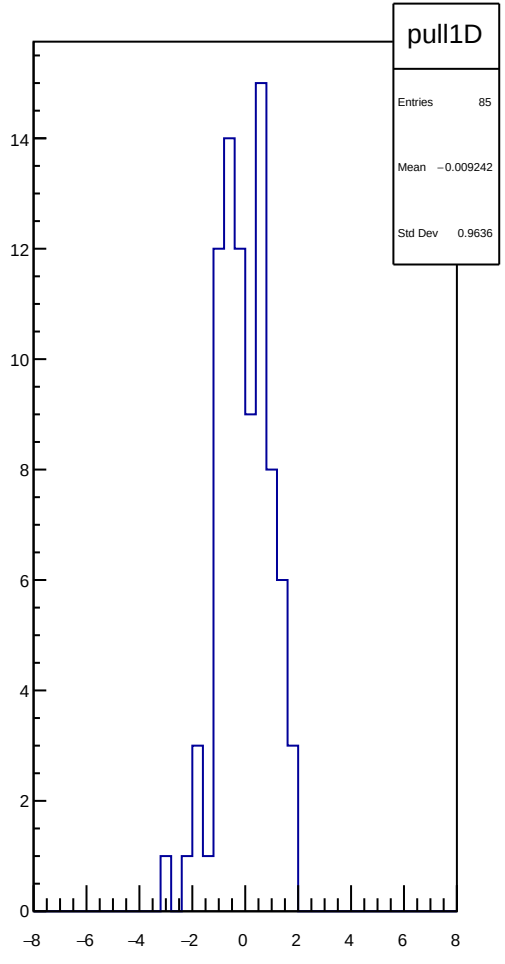

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 5.048e+04 / 84
p0 300.2 ± 0.2399
700
600
500
400
300

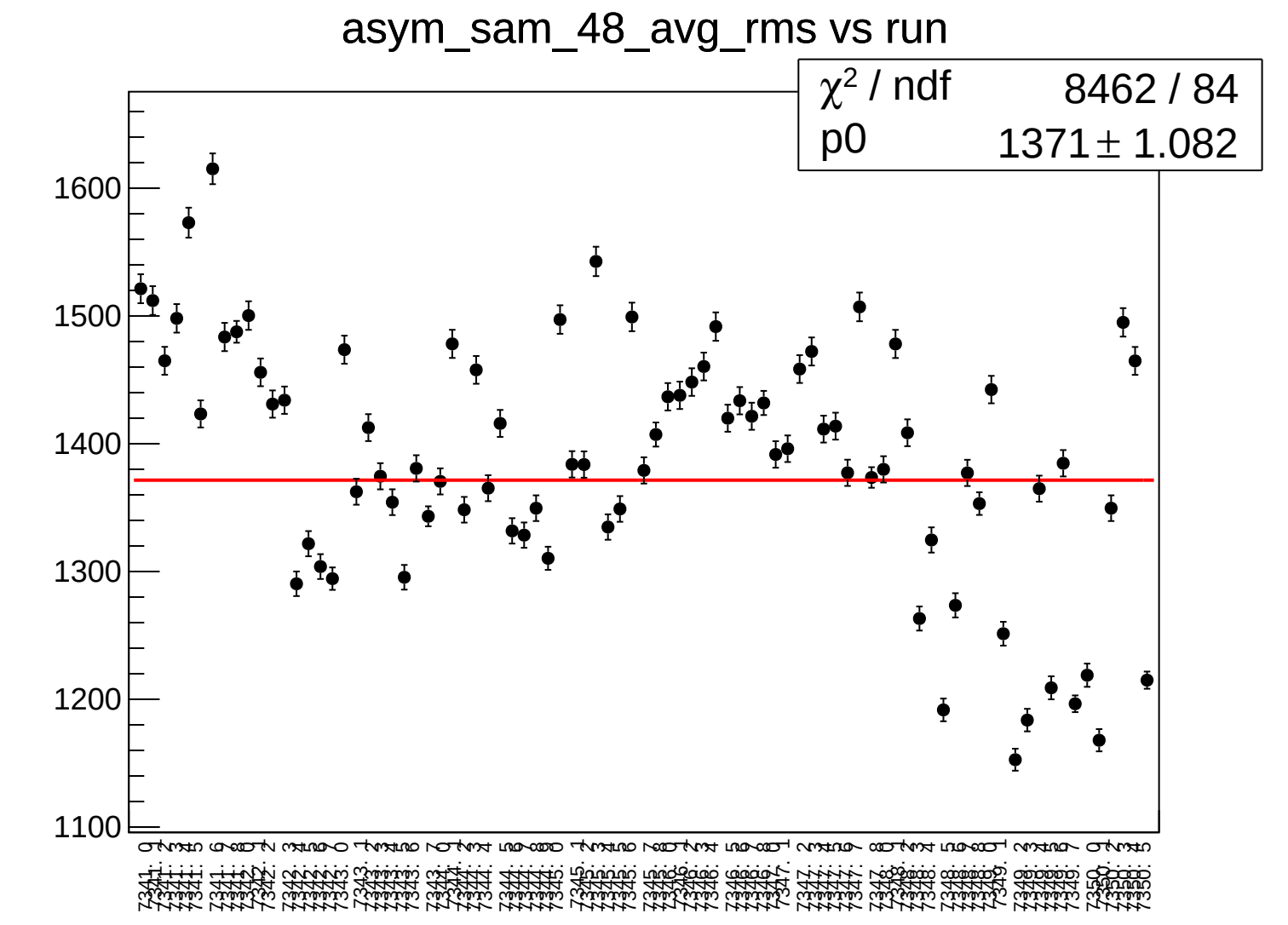

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.99 / 84
p0 −2326 ± 1470
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 218.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

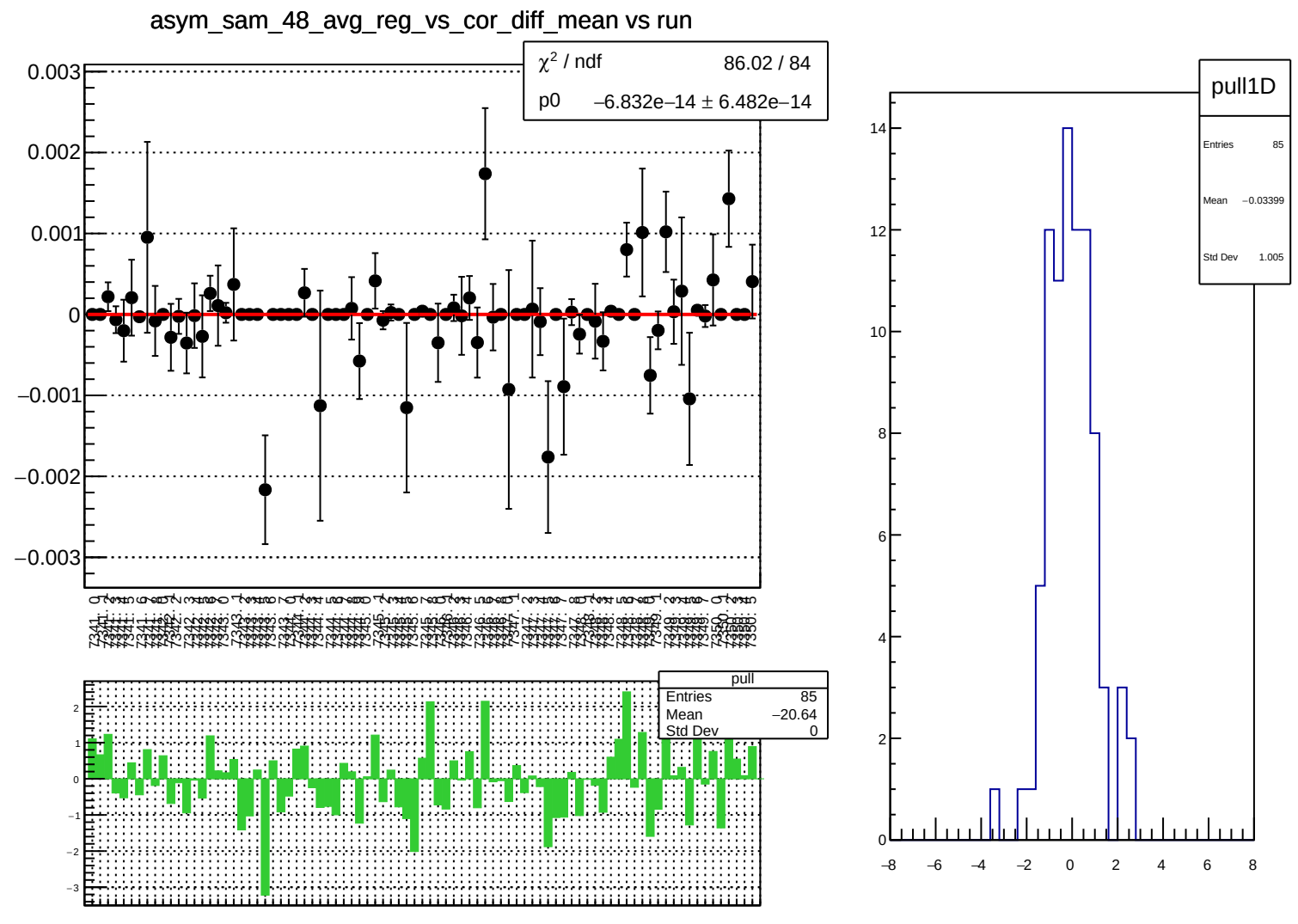

pull1D
Entries 85
Mean 0.006047
Std Dev 0.933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

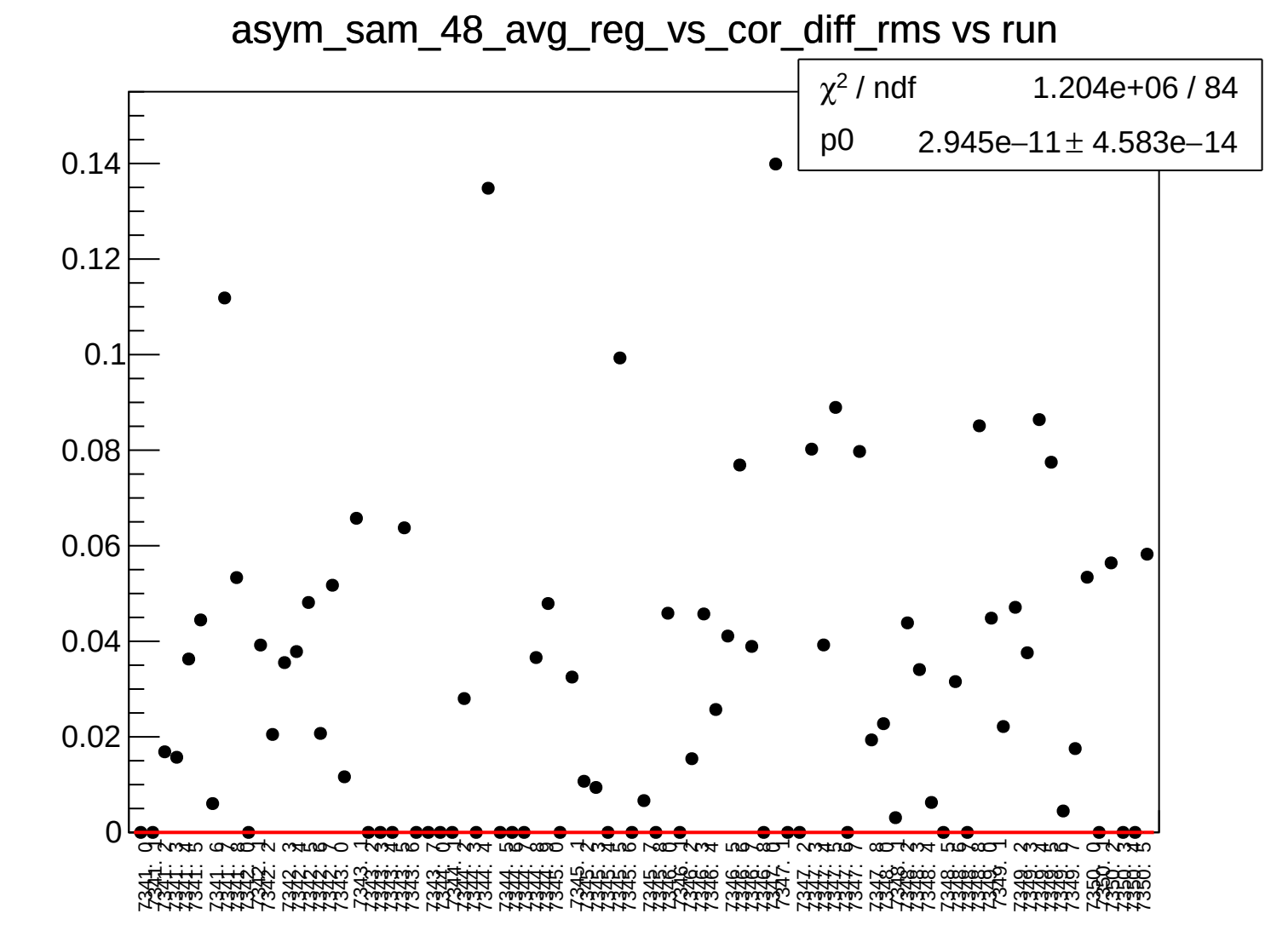

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 3168 / 84
p0 1320 ± 1.039
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

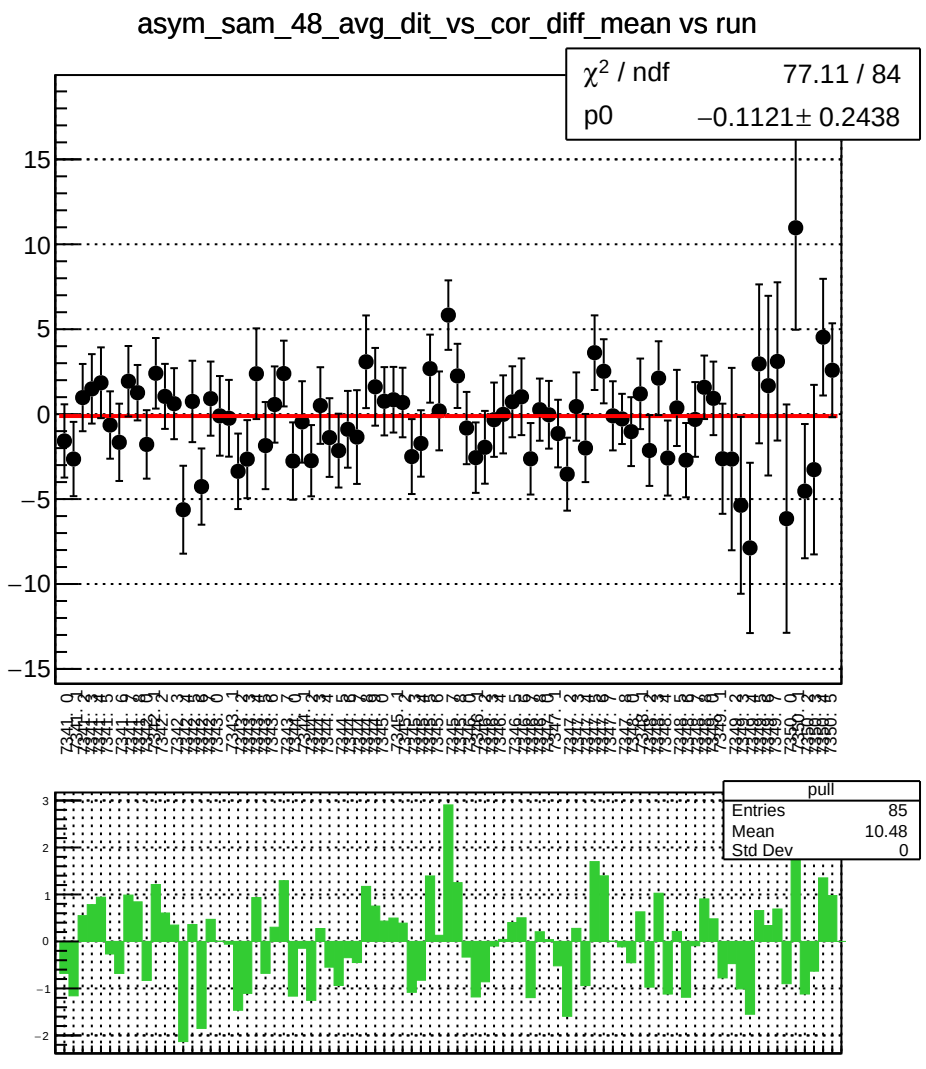

asym_sam_48_avg_mean vs run
χ² / ndf 78.94 / 84
p0 2447 ± 1530
40000
20000
0
−20000
−40000
pull
Entries 85
Mean 125.7
Std Dev 0
2
1
0
−1
−2
−3

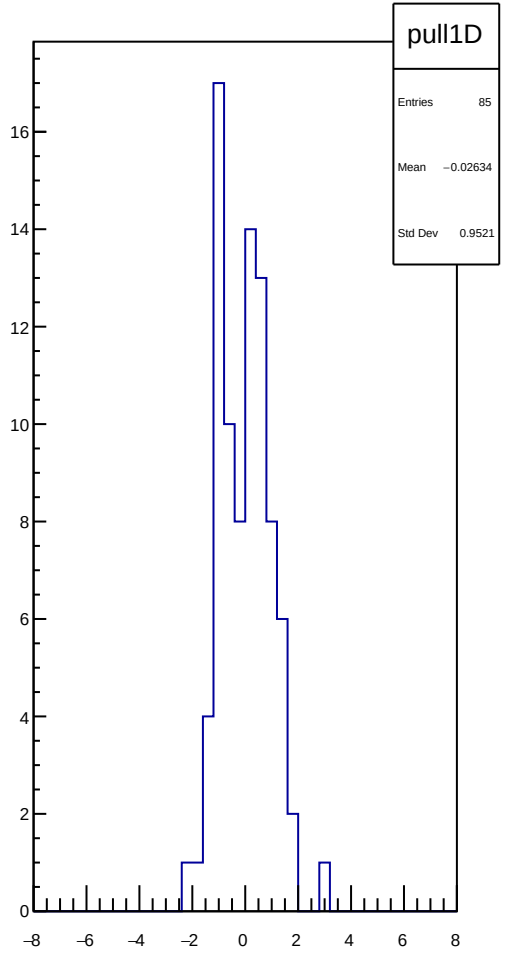

pull1D
Entries 85
Mean −0.009242
Std Dev 0.9636
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

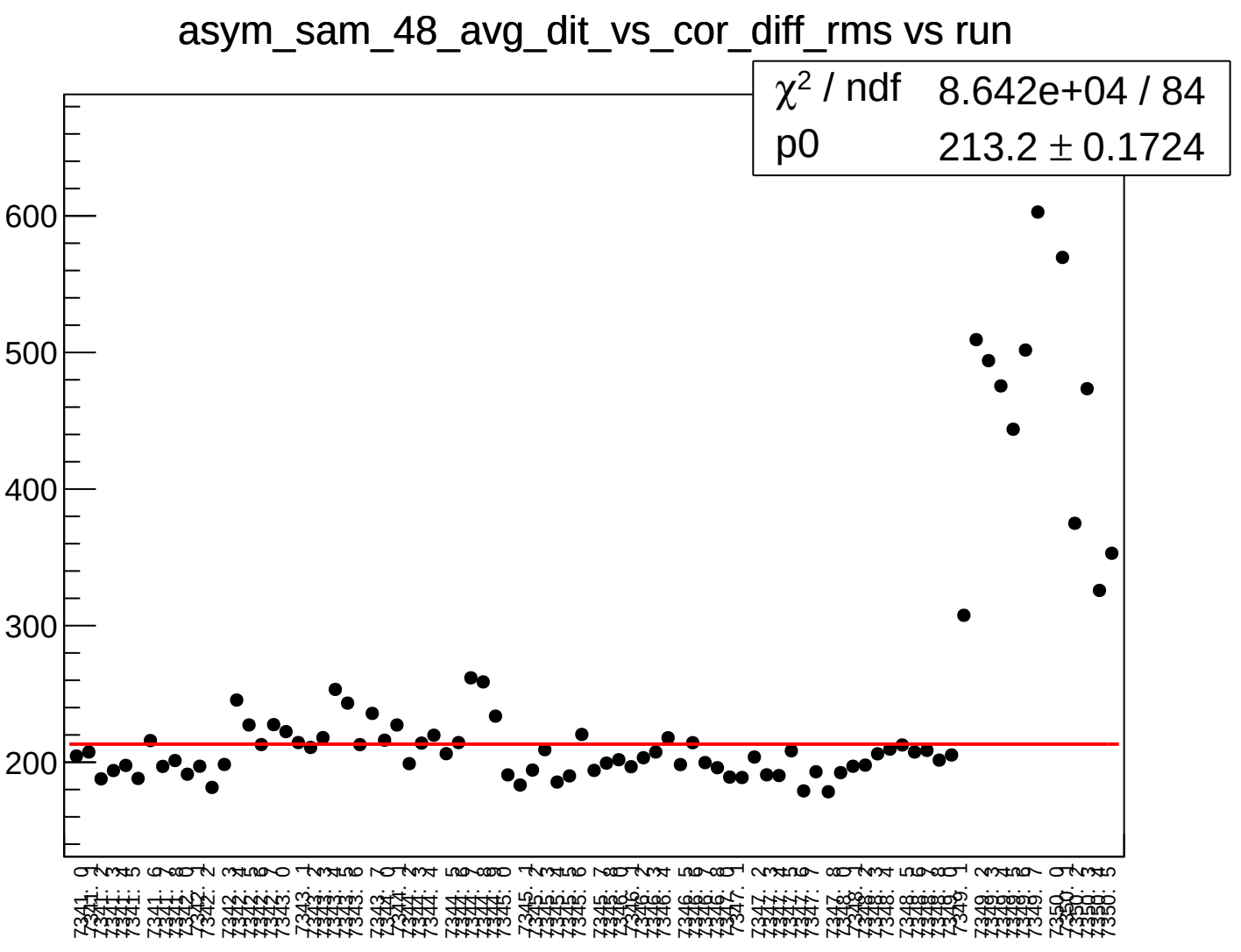

asym_sam_48_avg_rms vs run
χ² / ndf 8462 / 84
p0 1371 ± 1.082
1600
1500
1400
1300
1200
1100

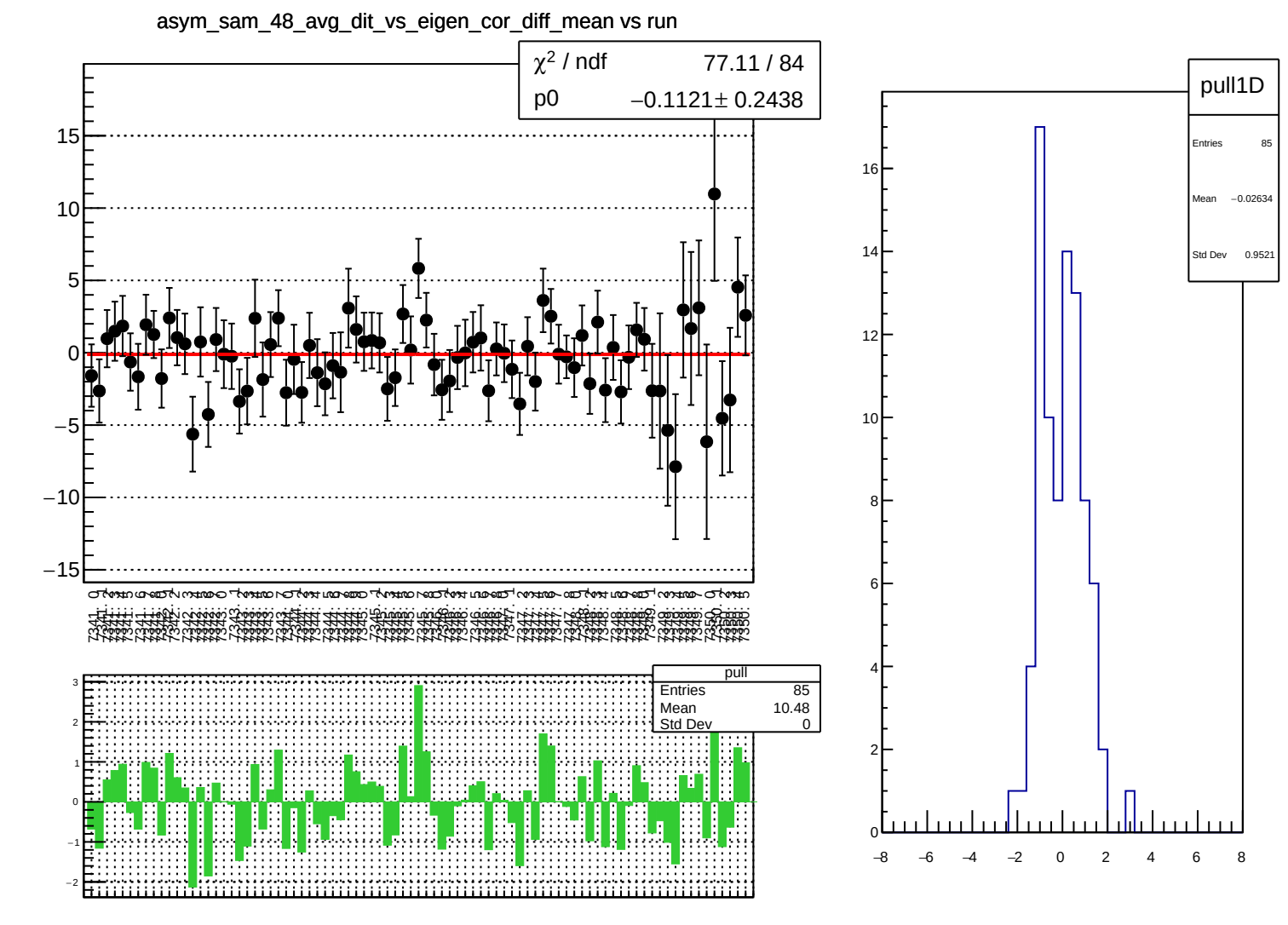

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.02 / 84
p0 −6.832e−14 ± 6.482e−14
pull
Entries 85
Mean −20.64
Std Dev 0
pull1D
Entries 85
Mean −0.03399
Std Dev 1.005

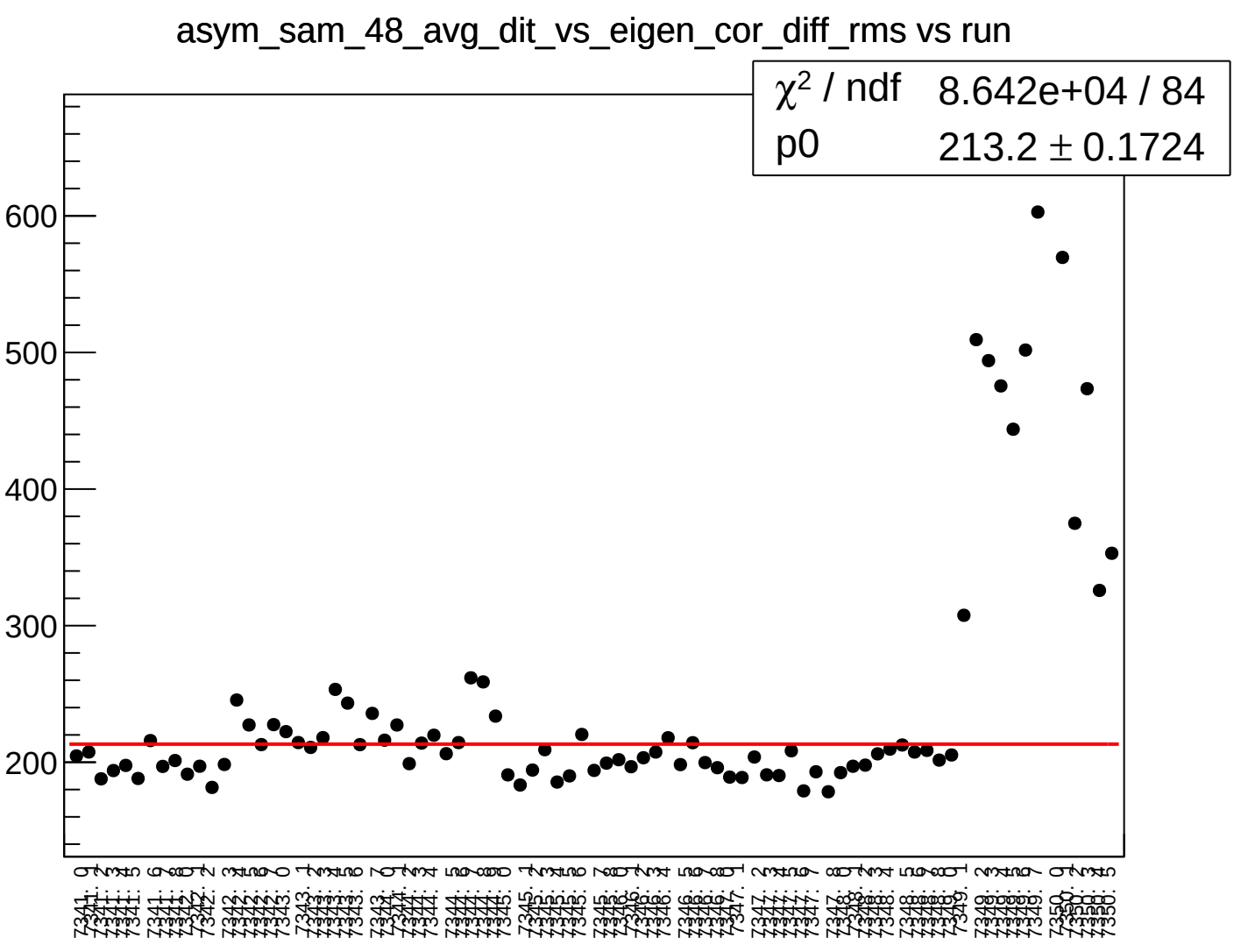

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.204e+06 / 84
p0 2.945e−11 ± 4.583e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

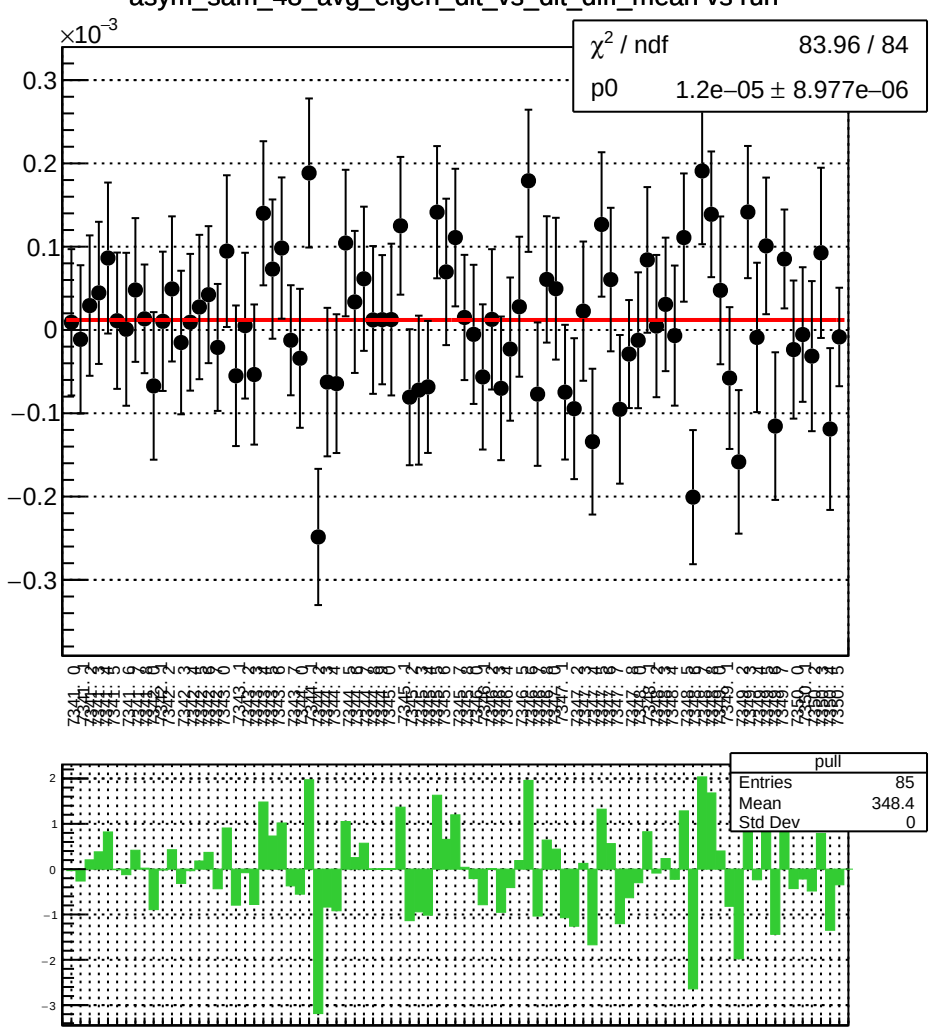

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.11 / 84
p0 −0.1121± 0.2438
pull
Entries 85
Mean 10.48
Std Dev 0

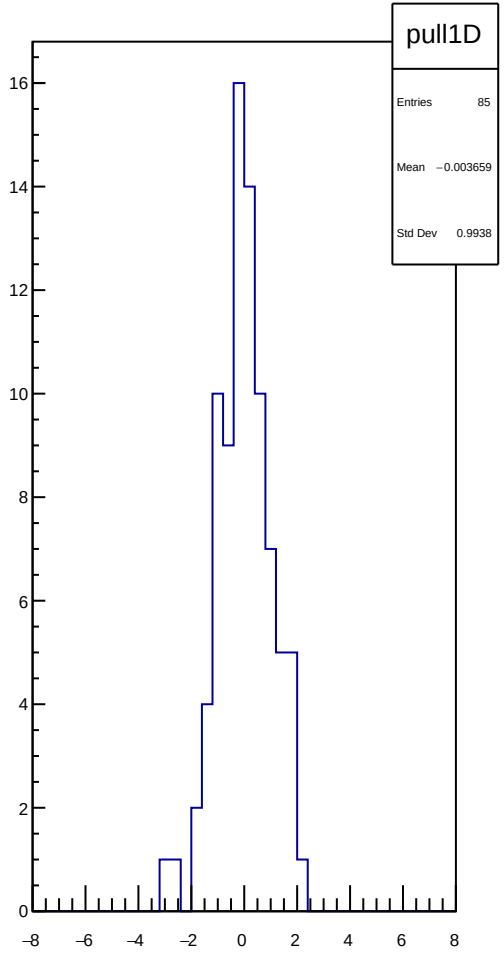

pull1D
Entries 85
Mean −0.02634
Std Dev 0.9521

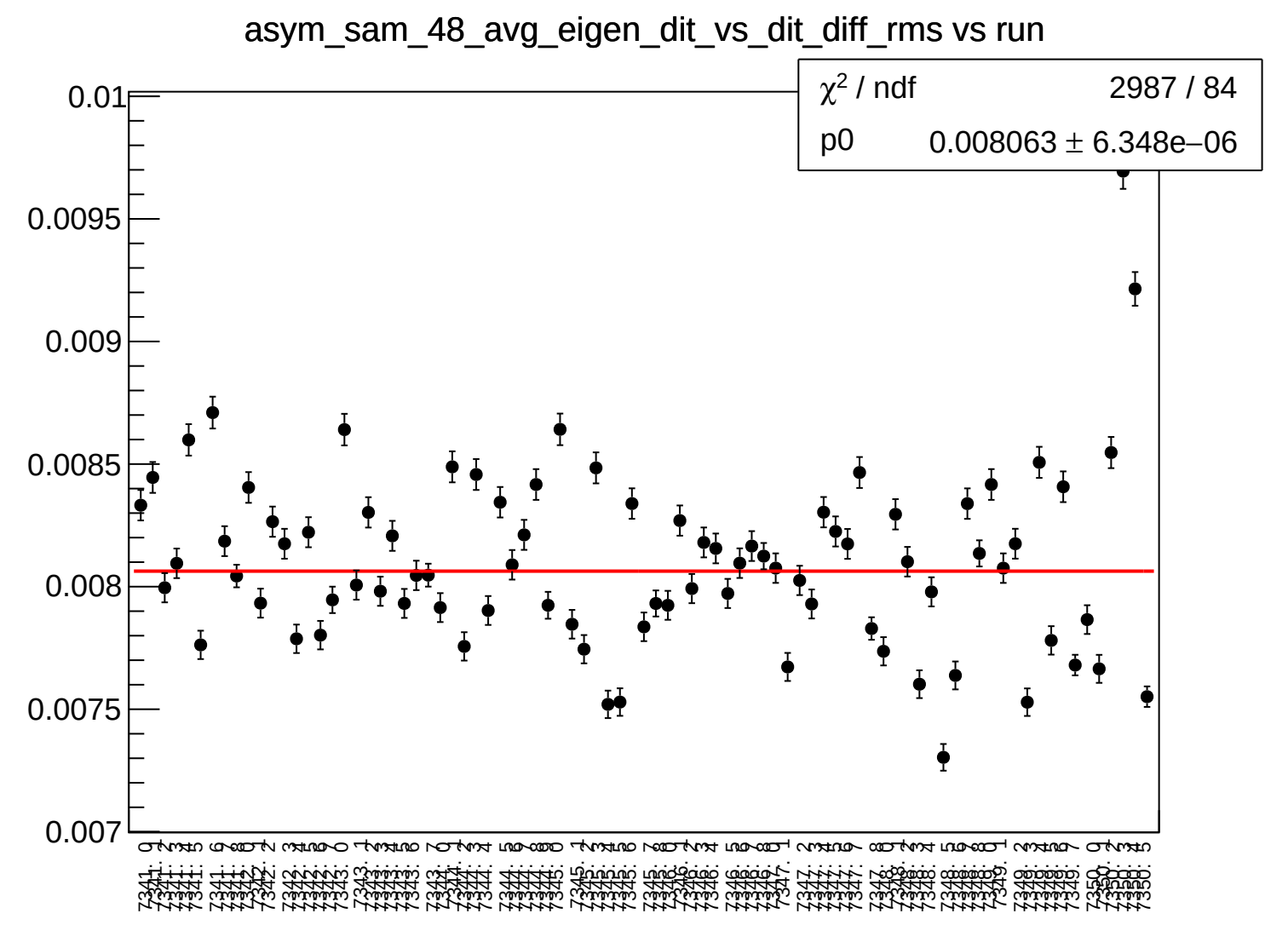

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.642e+04 / 84
p0 213.2 ± 0.1724
600
500
400
300
200

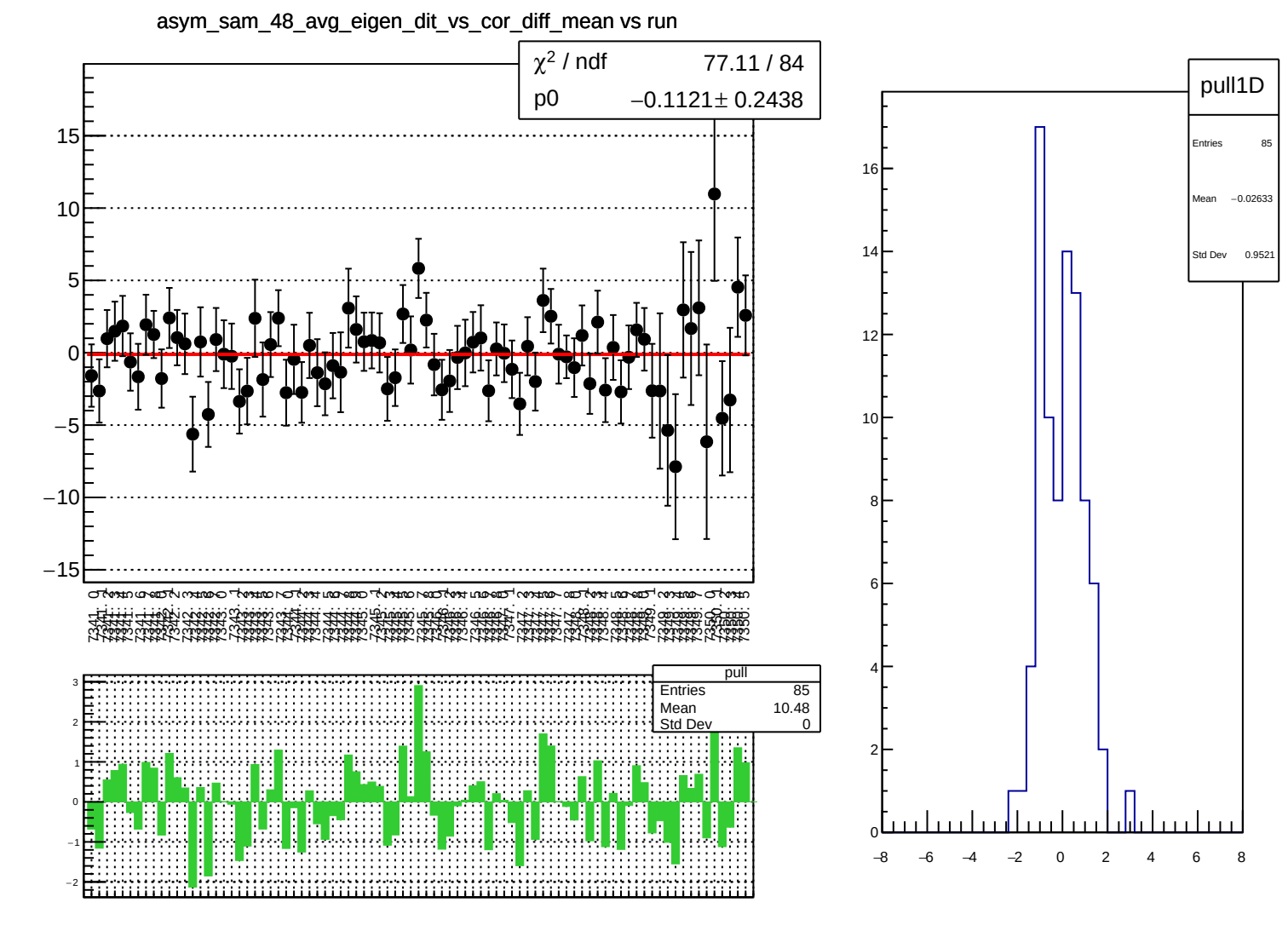

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.11 / 84
p0 −0.1121± 0.2438
pull
Entries 85
Mean 10.48
Std Dev 0
pull1D
Entries 85
Mean −0.02634
Std Dev 0.9521

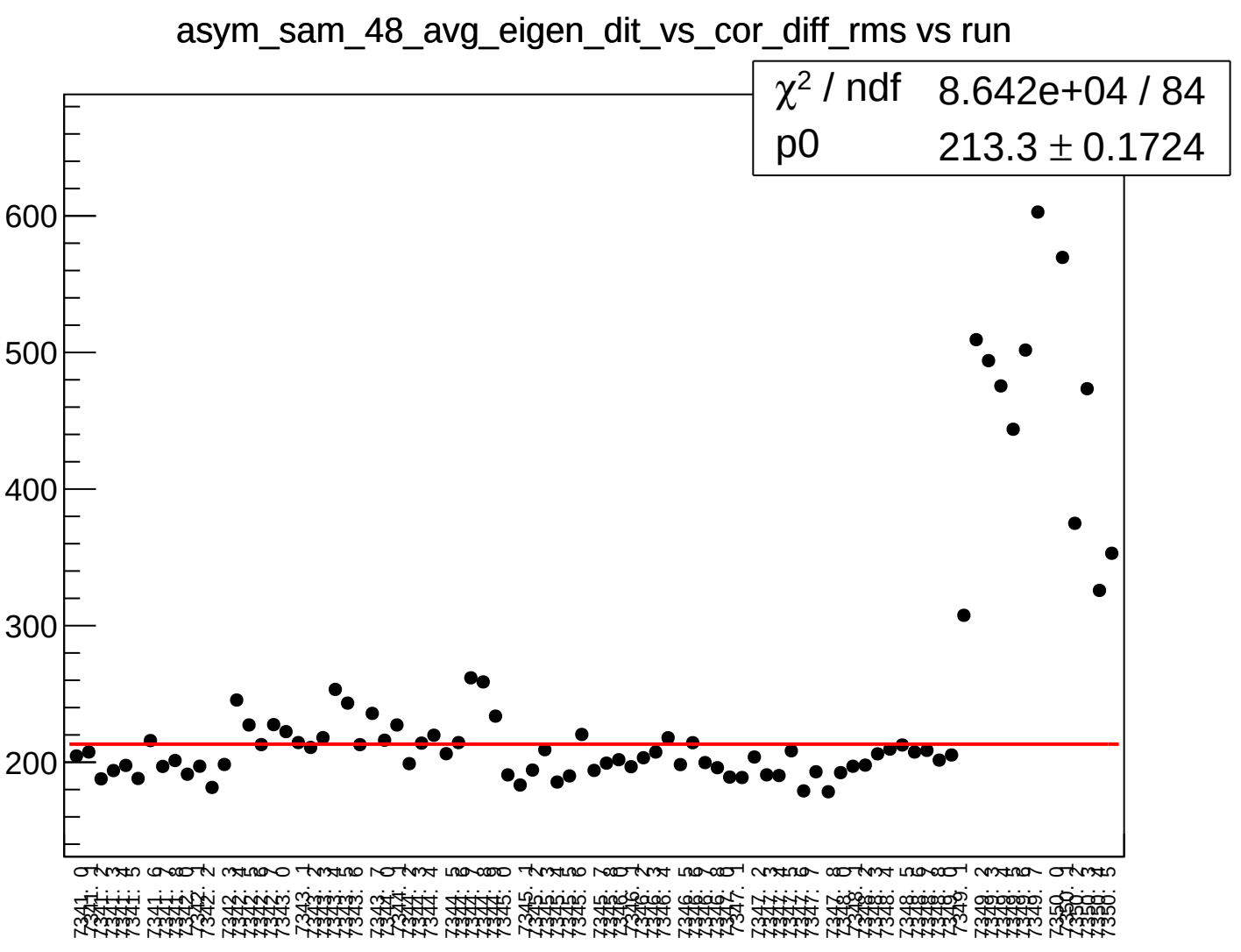

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.642e+04 / 84
p0 213.2 ± 0.1724
600
500
400
300
200

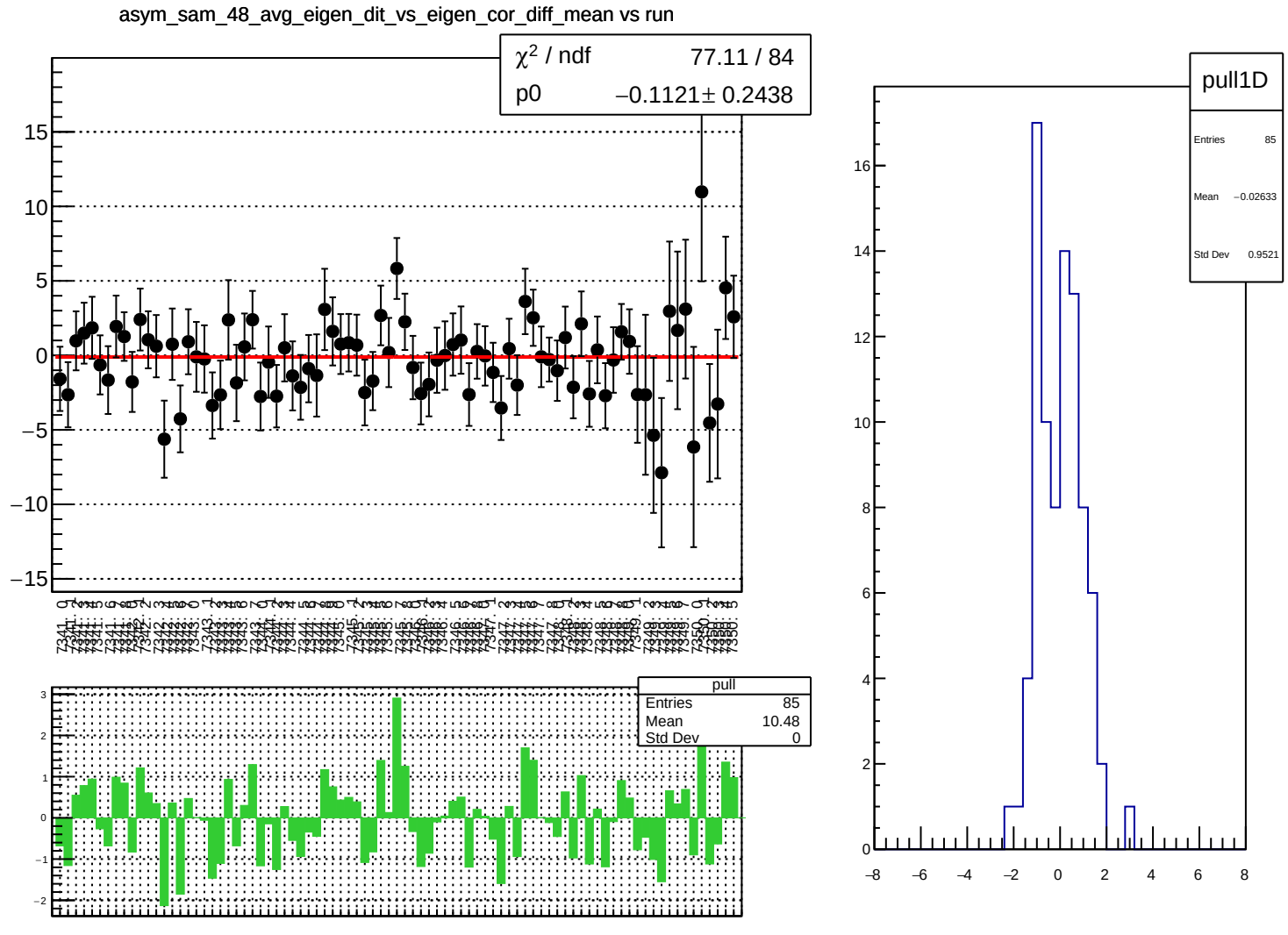

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.96 / 84
p0 1.2e−05 ± 8.977e−06
pull
Entries 85
Mean 348.4
Std Dev 0

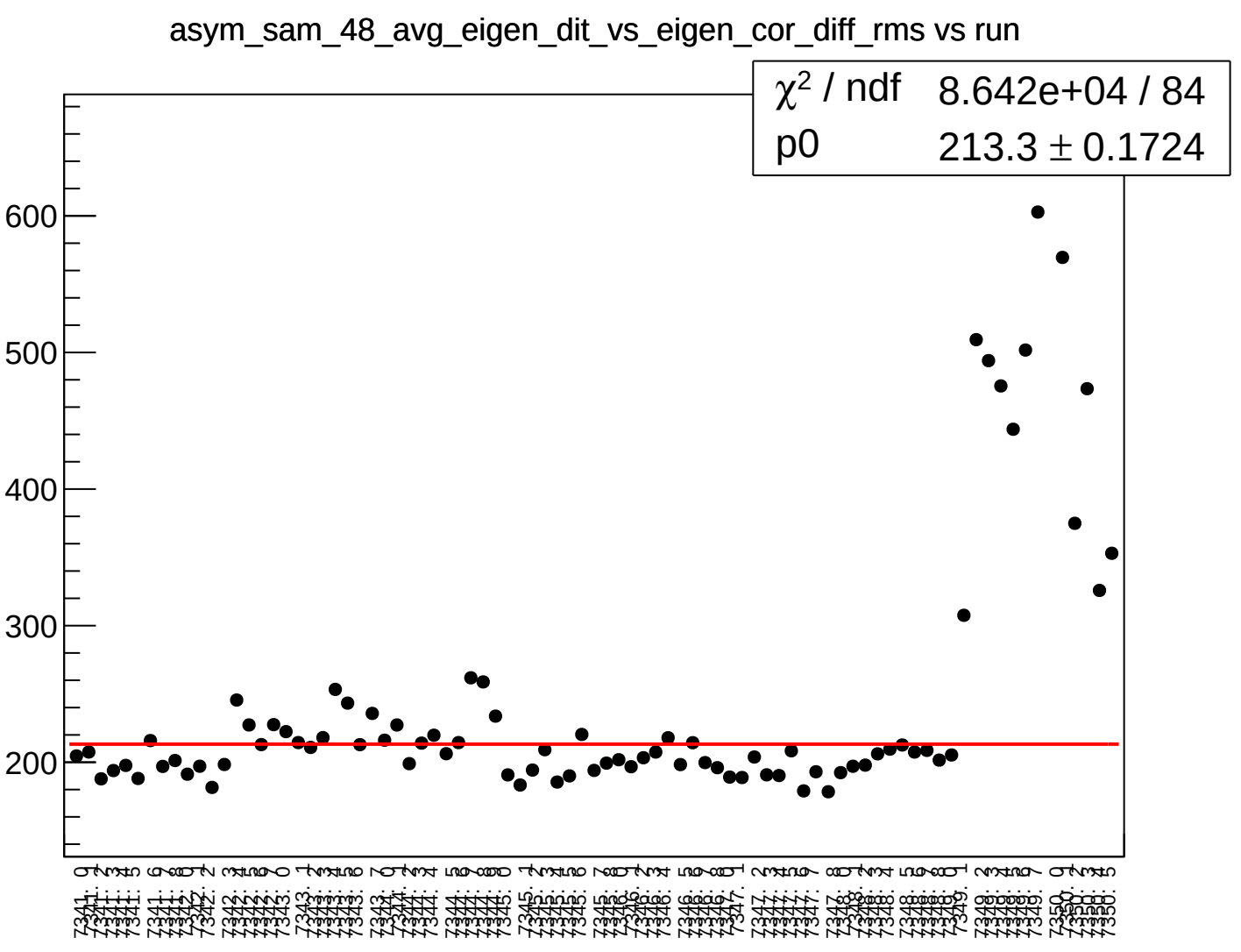

pull1D
Entries 85
Mean −0.003659
Std Dev 0.9938

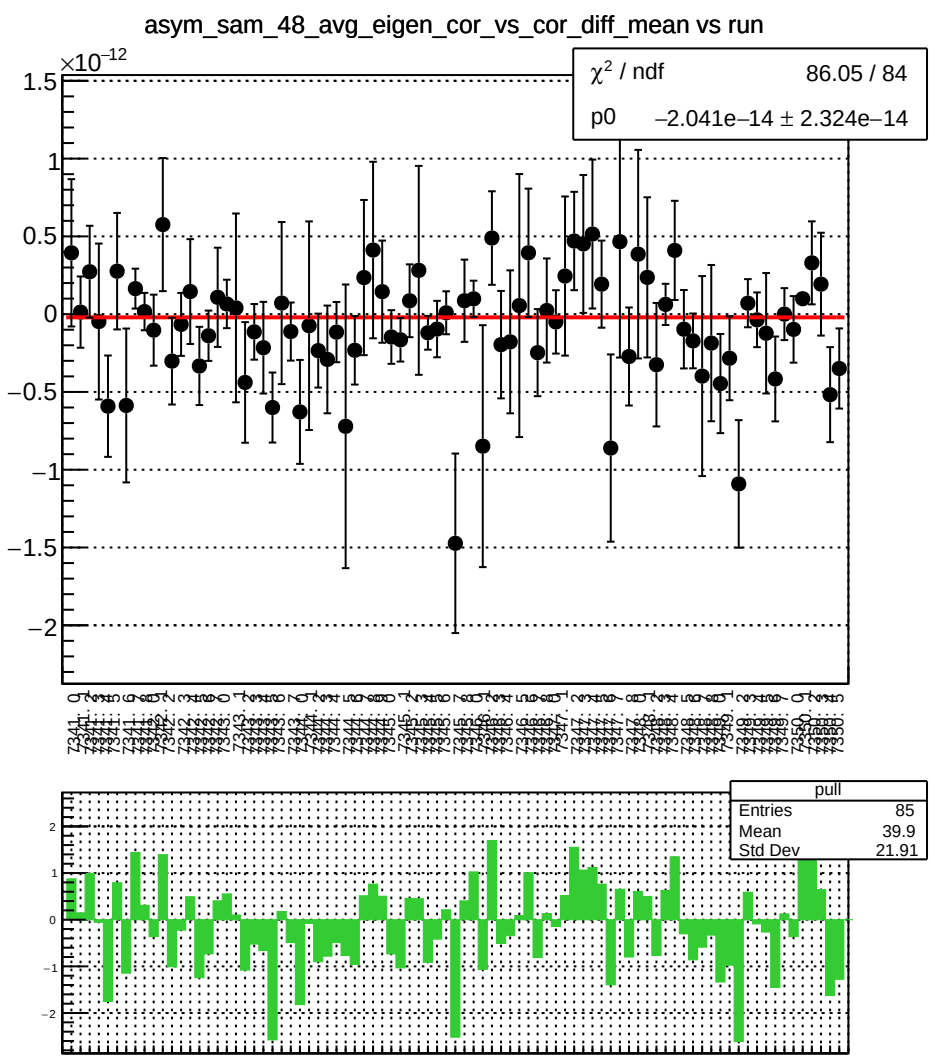

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2987 / 84
p0 0.008063 ± 6.348e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

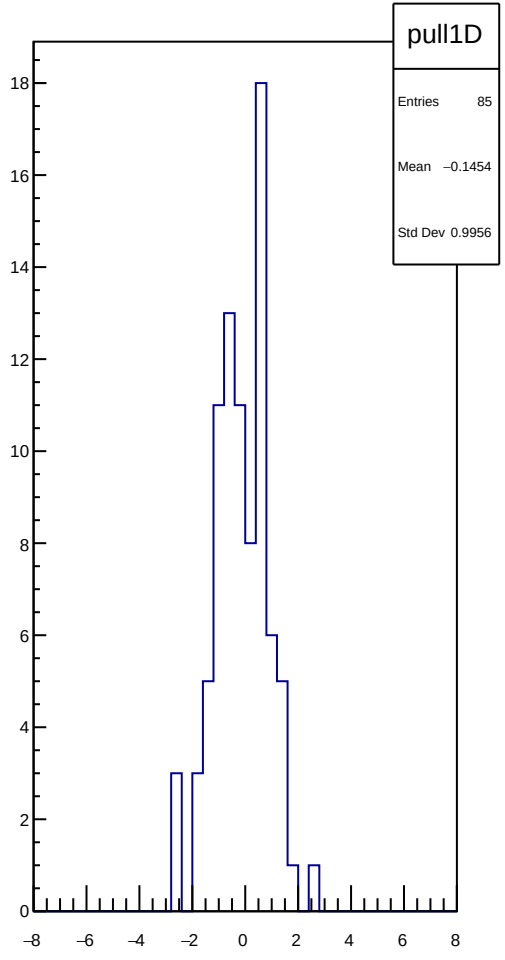

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.11 / 84
p0 −0.1121± 0.2438
pull
Entries 85
Mean 10.48
Std Dev 0
pull1D
Entries 85
Mean −0.02633
Std Dev 0.9521

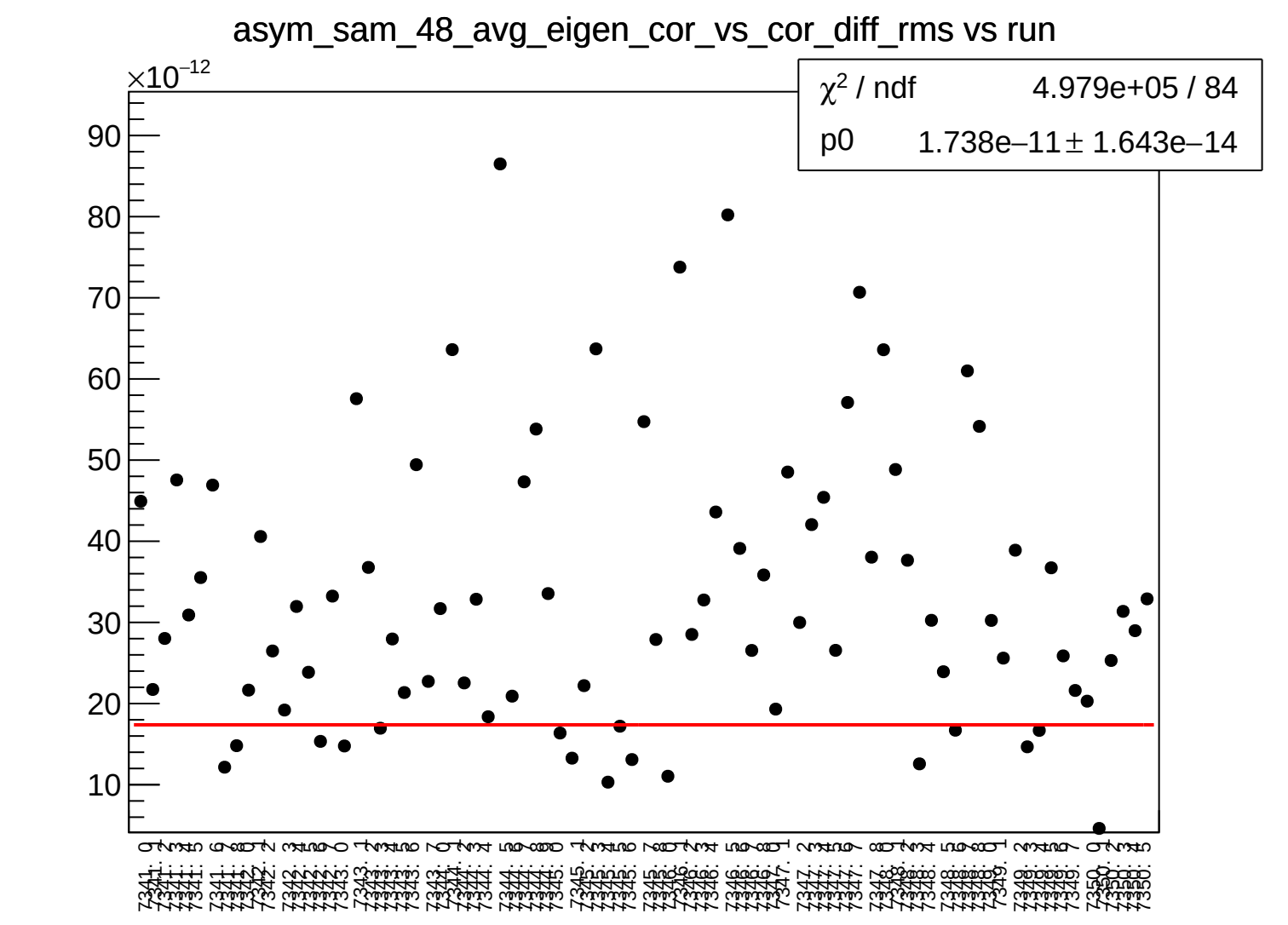

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.642e+04 / 84
p0 213.3 ± 0.1724
600
500
400
300
200

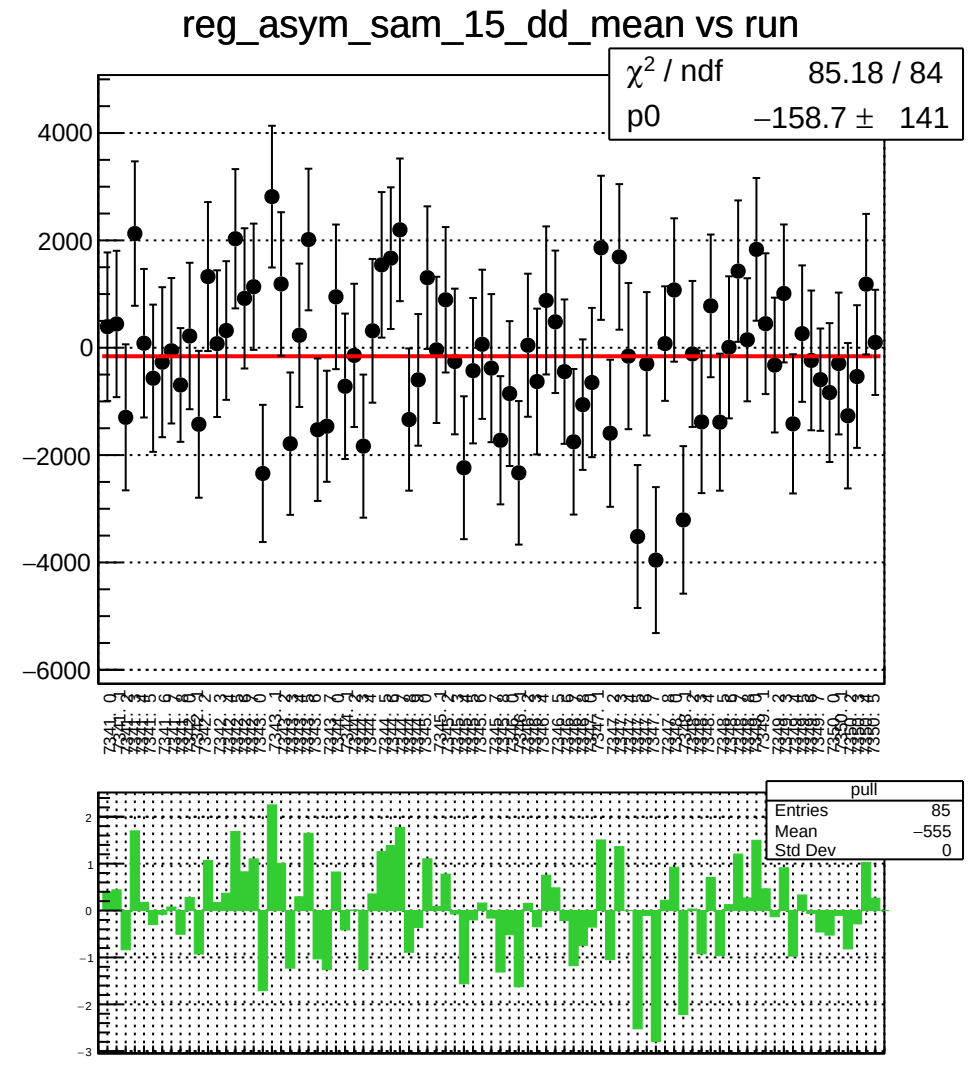

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.11 / 84
p0 −0.1121± 0.2438
pull
Entries 85
Mean 10.48
Std Dev 0
pull1D
Entries 85
Mean −0.02633
Std Dev 0.9521

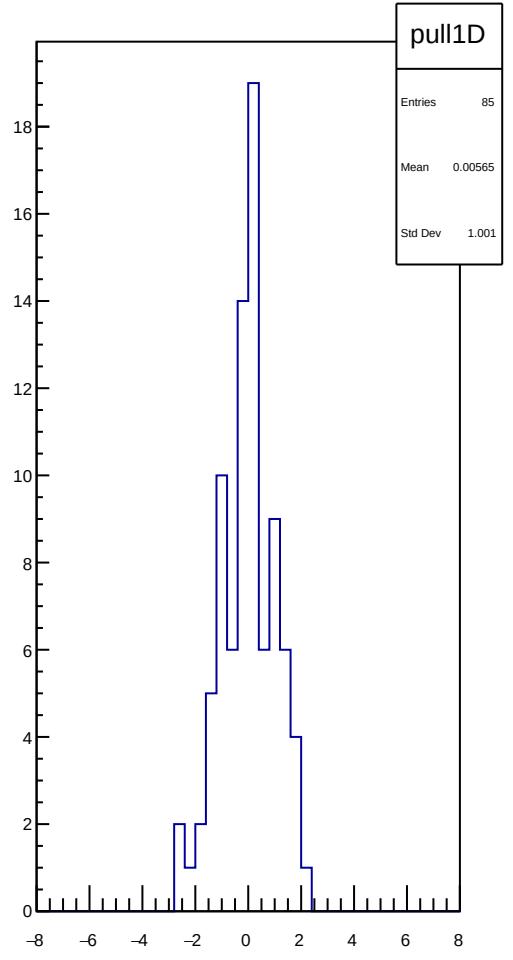

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.642e+04 / 84
p0 213.3 ± 0.1724
600
500
400
300
200

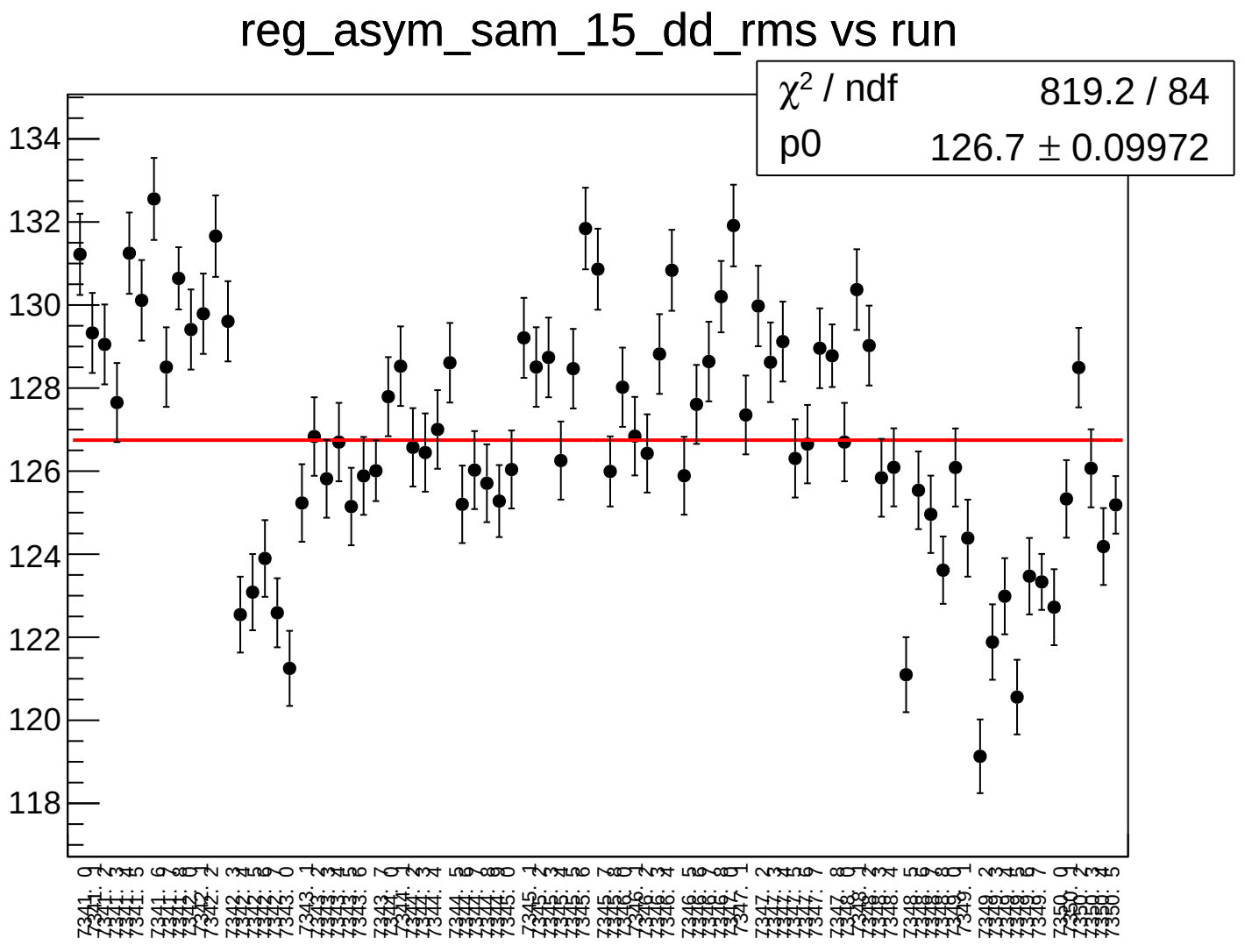

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.05 / 84
p0 −2.041e−14 ± 2.324e−14
pull
Entries 85
Mean 39.9
Std Dev 21.91

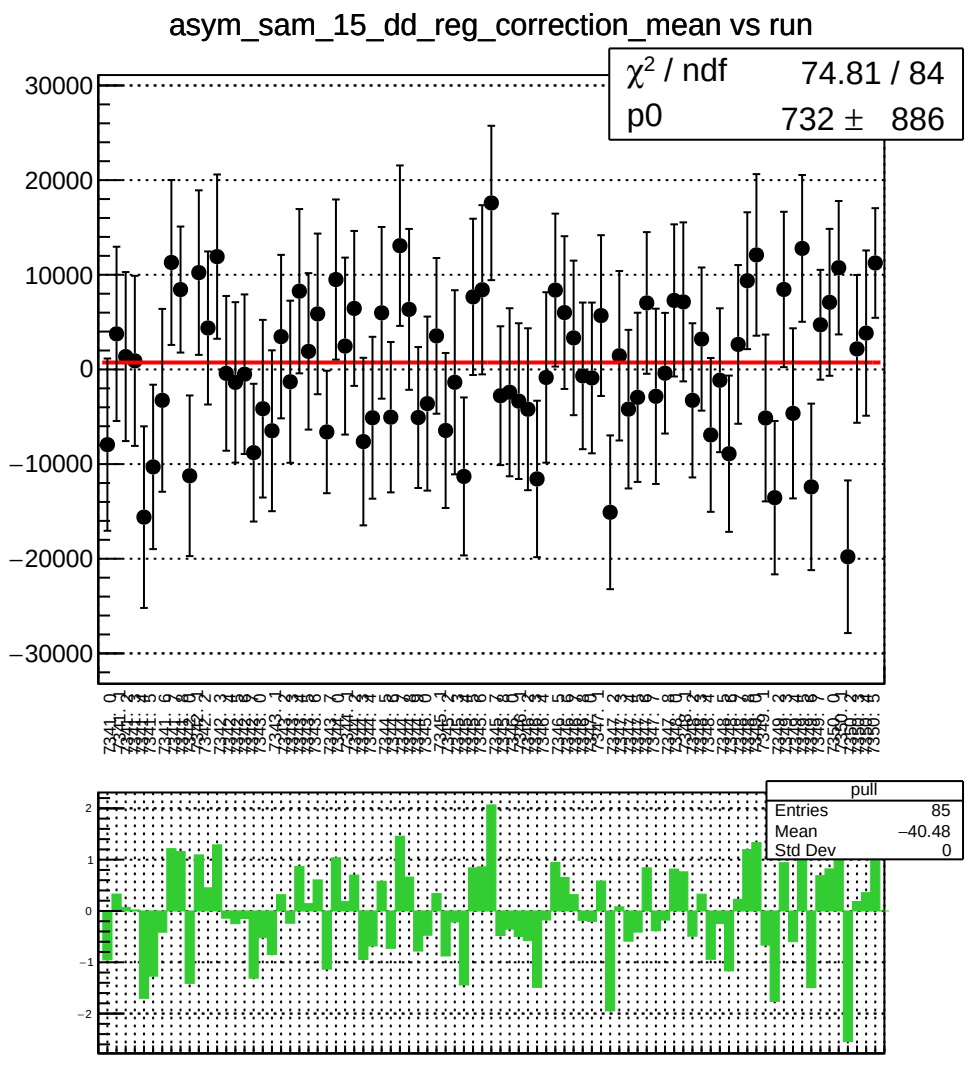

pull1D
Entries 85
Mean −0.1454
Std Dev 0.9956

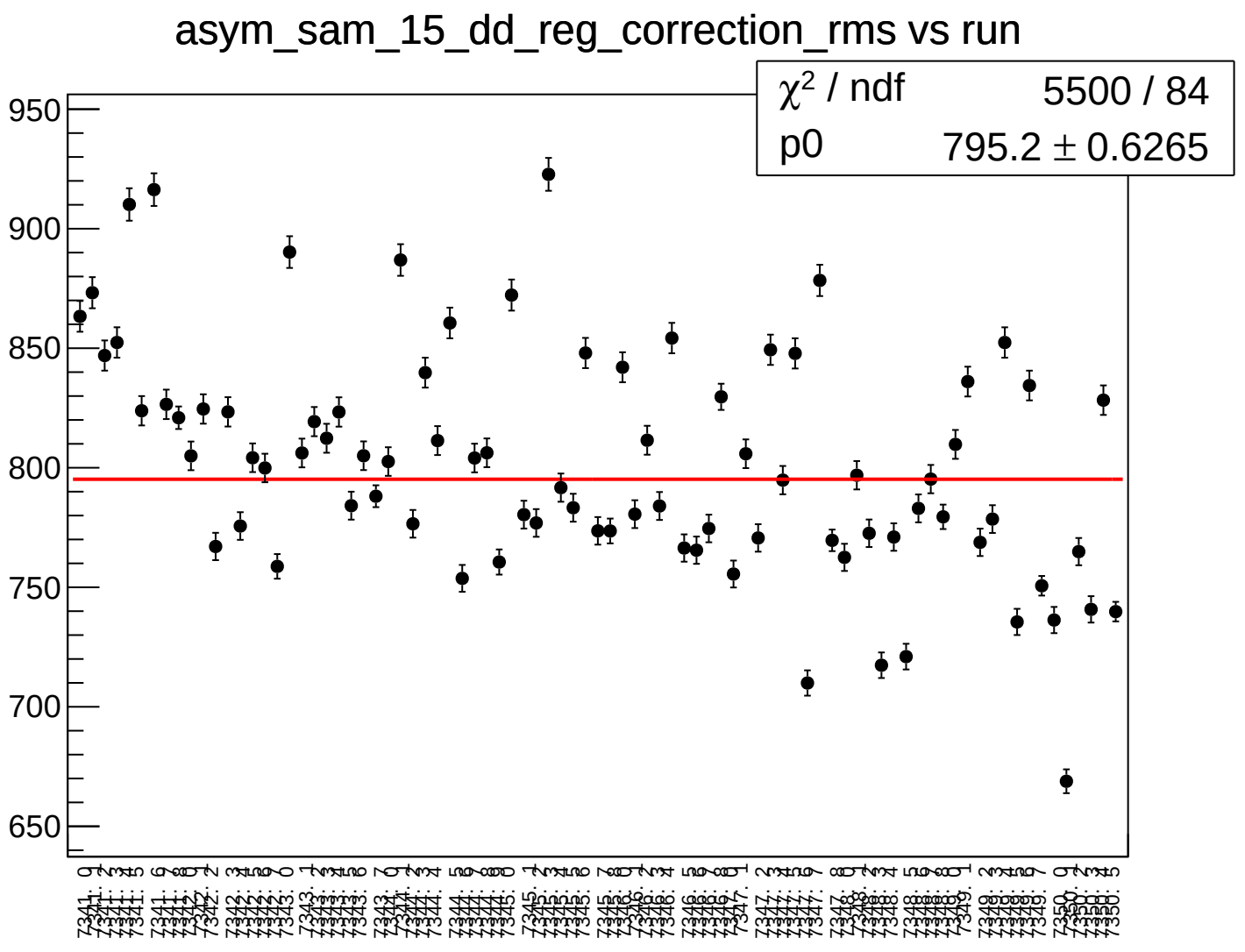

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.979e+05 / 84
p0 1.738e−11 ± 1.643e−14
90
80
70
60
50
40
30
20
10

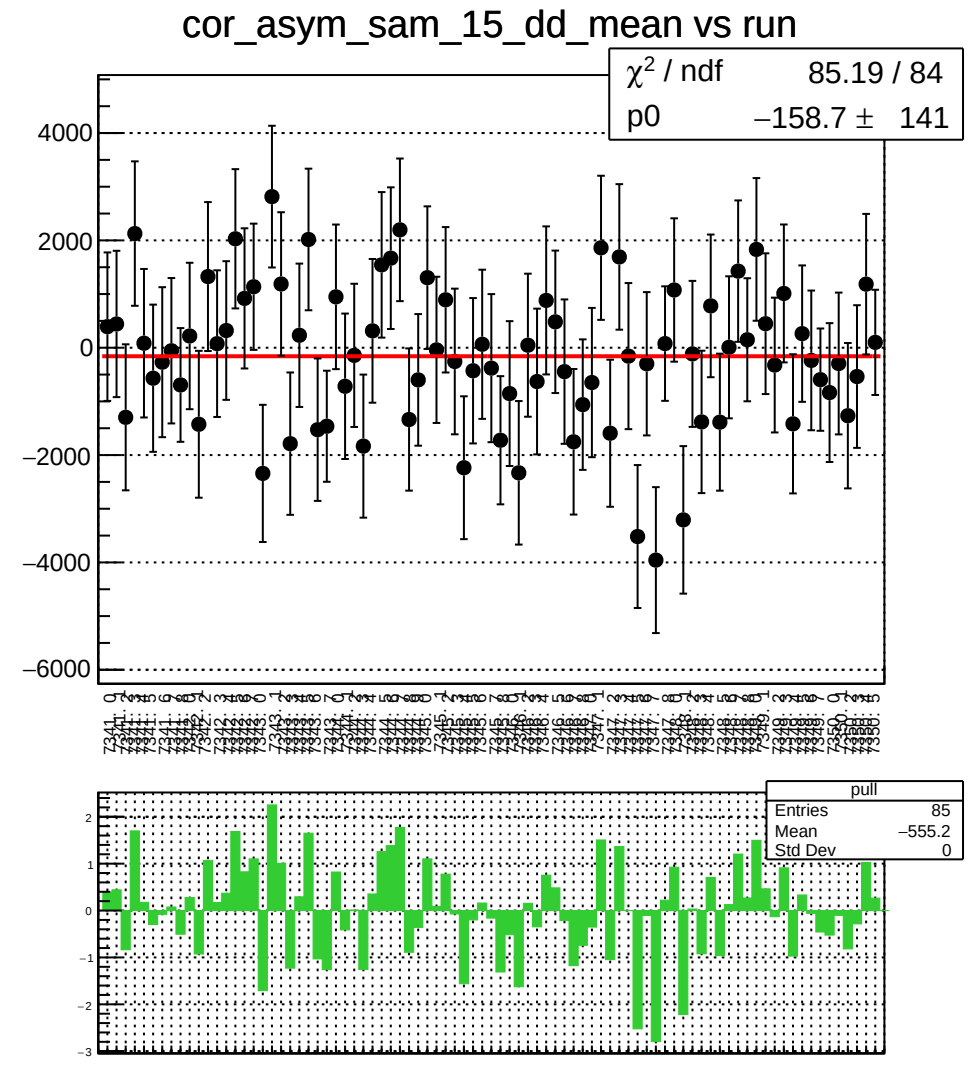

reg_asym_sam_15_dd_mean vs run
χ² / ndf 85.18 / 84
p0 −158.7 ± 141
pull
Entries 85
Mean −555
Std Dev 0

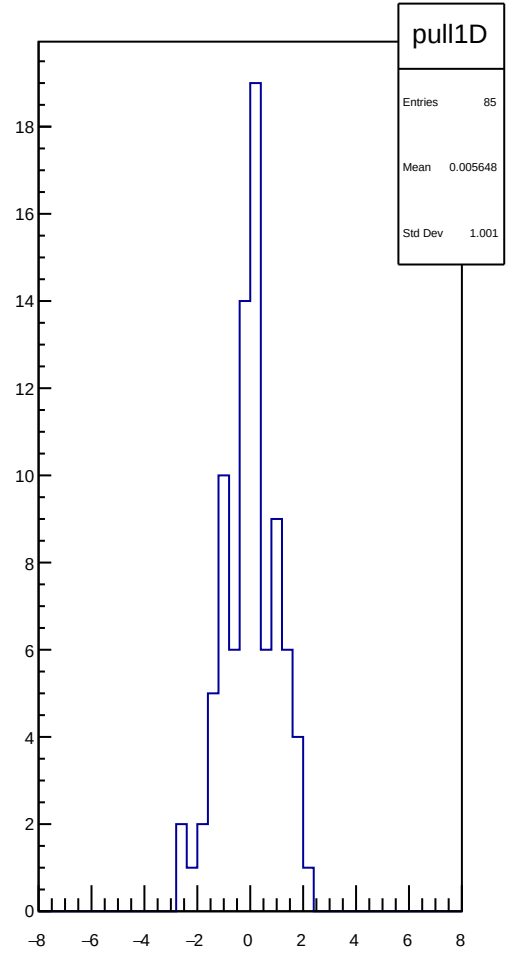

pull1D
Entries 85
Mean 0.00565
Std Dev 1.001

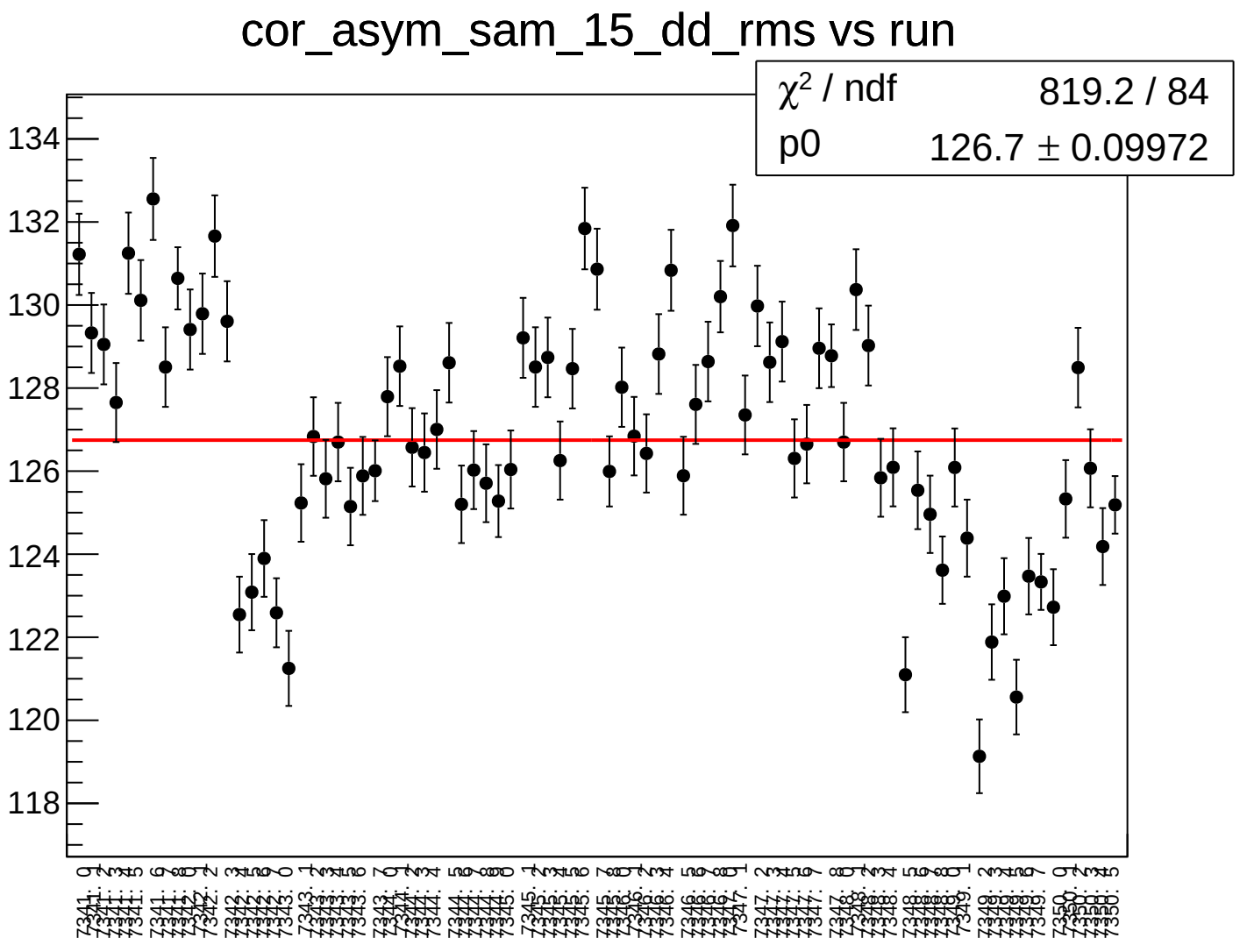

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 819.2 / 84
p0 126.7 ± 0.09972
134
132
130
128
126
124
122
120
118

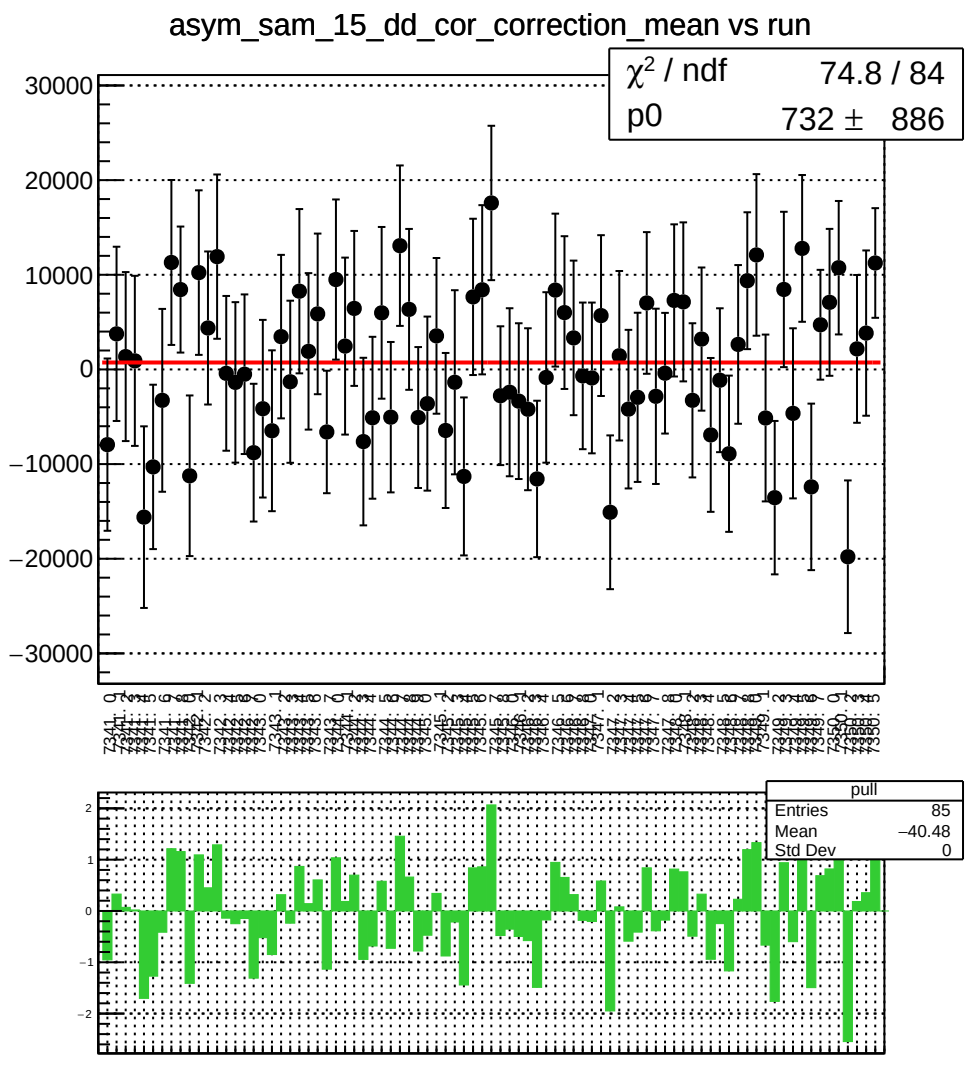

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 74.81 / 84
p0 732 ± 886
pull
Entries 85
Mean −40.48
Std Dev 0
pull1D
Entries 85
Mean −0.02014
Std Dev 0.9379

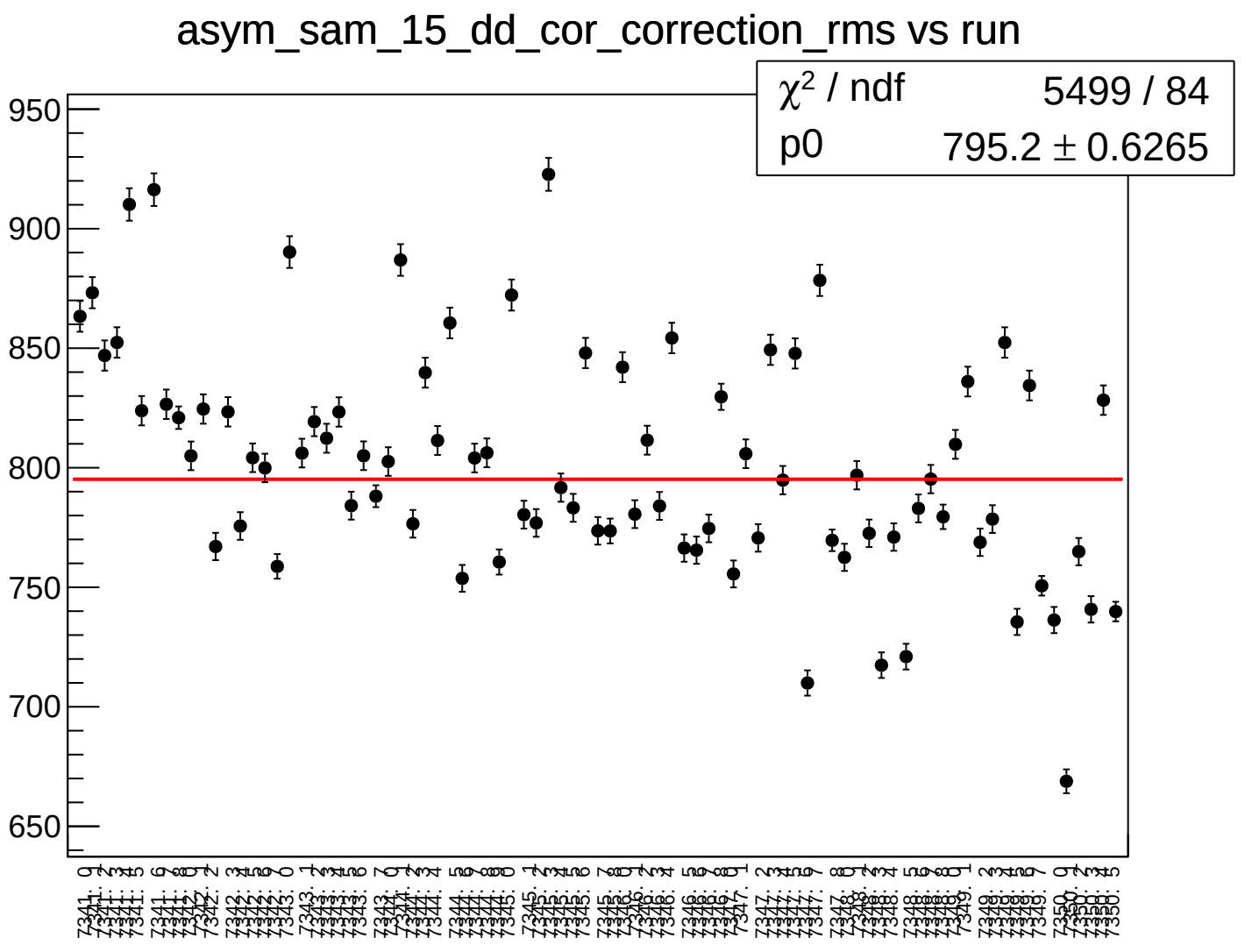

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 5500 / 84
p0 795.2 ± 0.6265
950
900
850
800
750
700
650

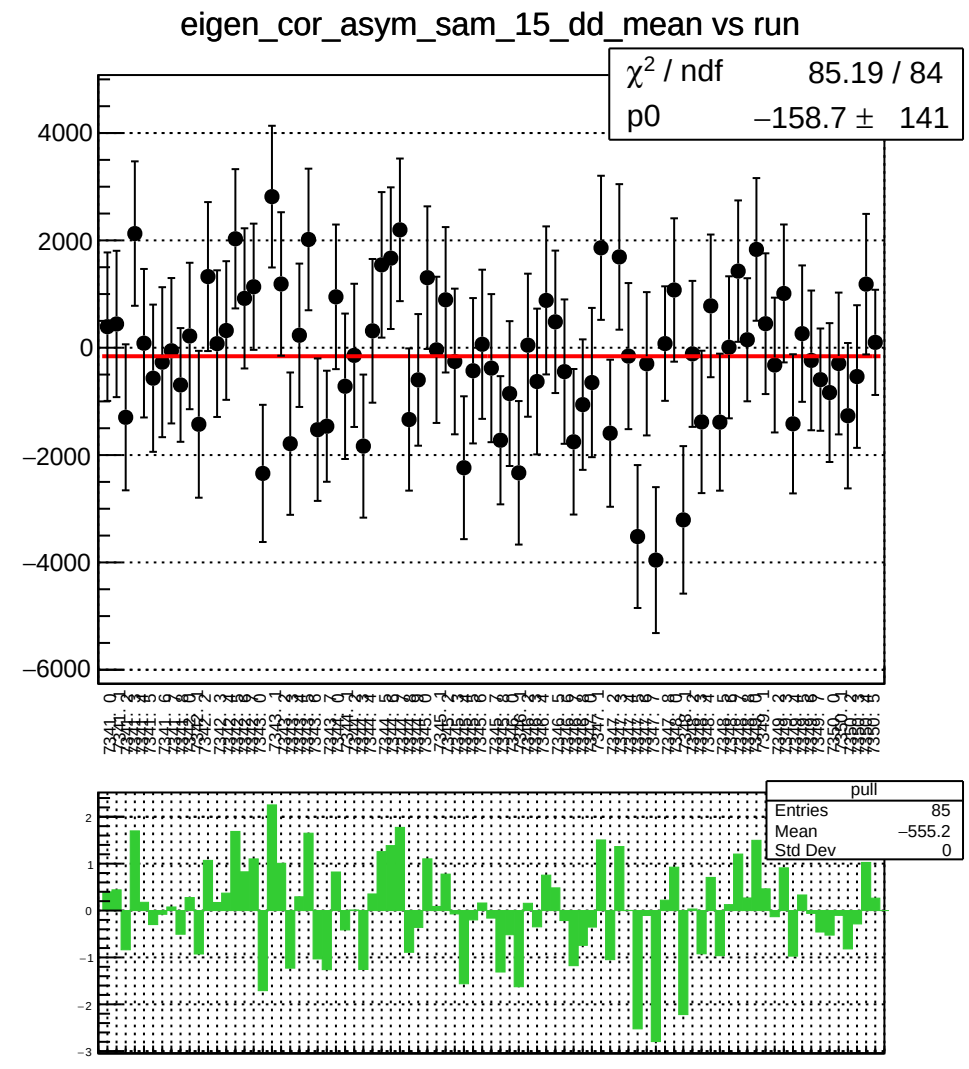

cor_asym_sam_15_dd_mean vs run
χ² / ndf 85.19 / 84
p0 −158.7 ± 141
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −555.2
Std Dev 0
2
1
0
−1
−2
−3

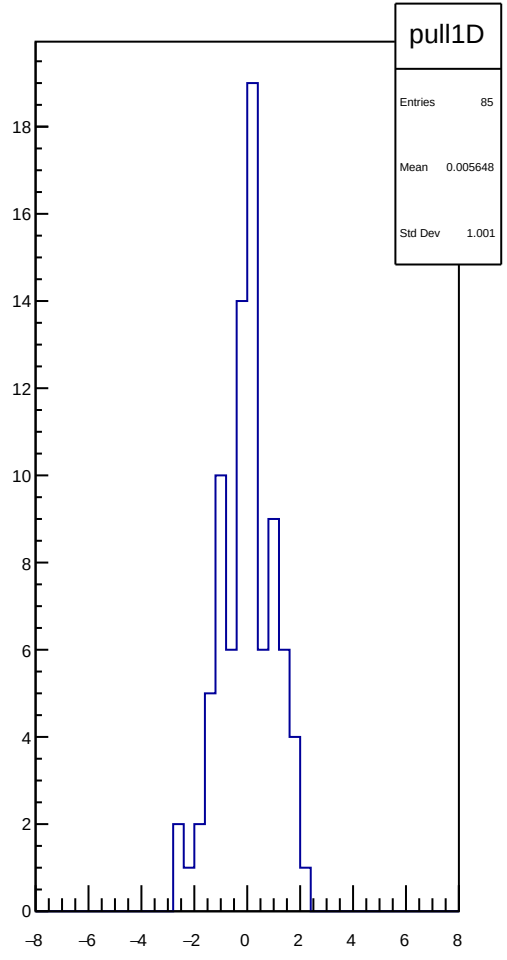

pull1D
Entries 85
Mean 0.005648
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

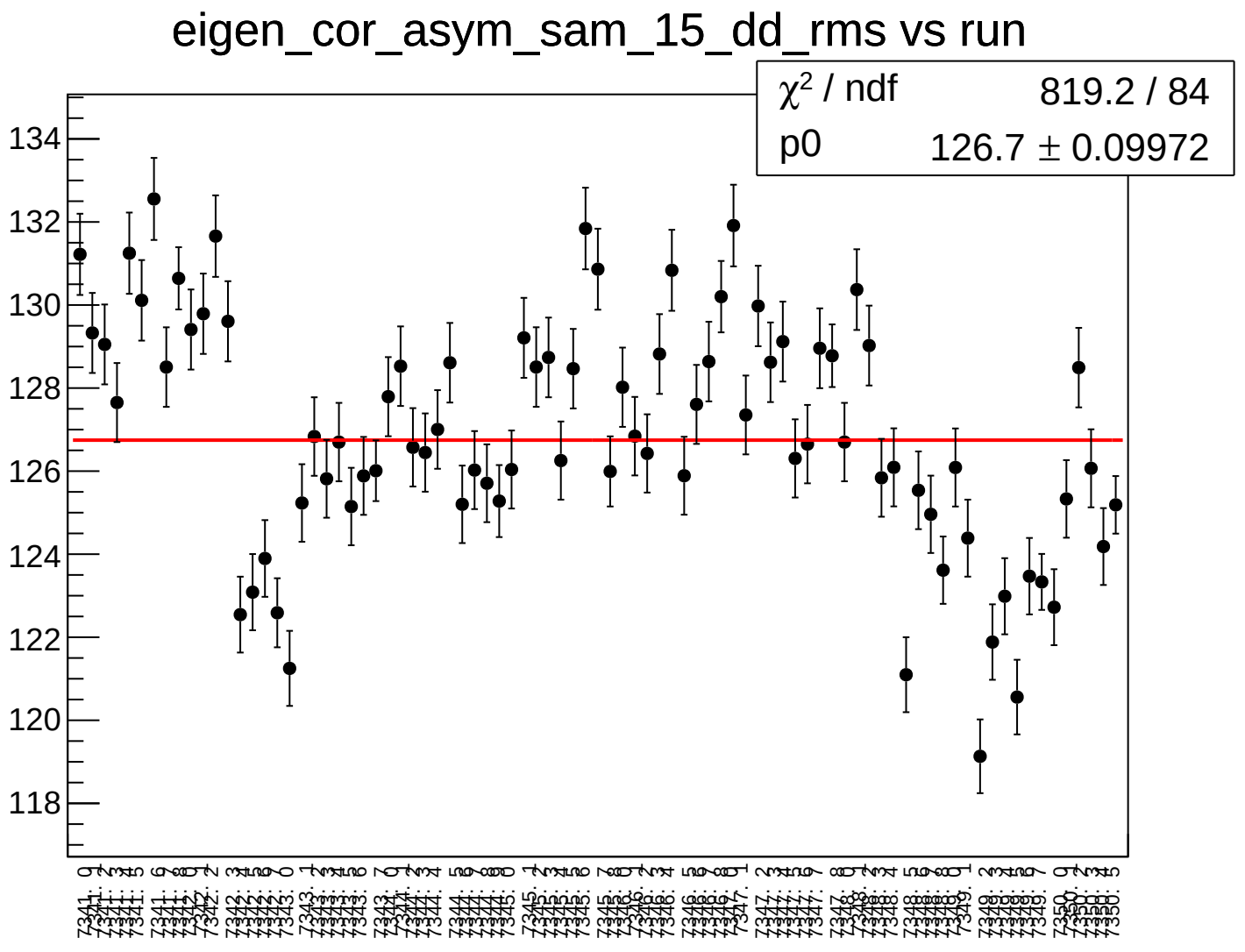

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 819.2 / 84
p0 126.7 ± 0.09972
134
132
130
128
126
124
122
120
118

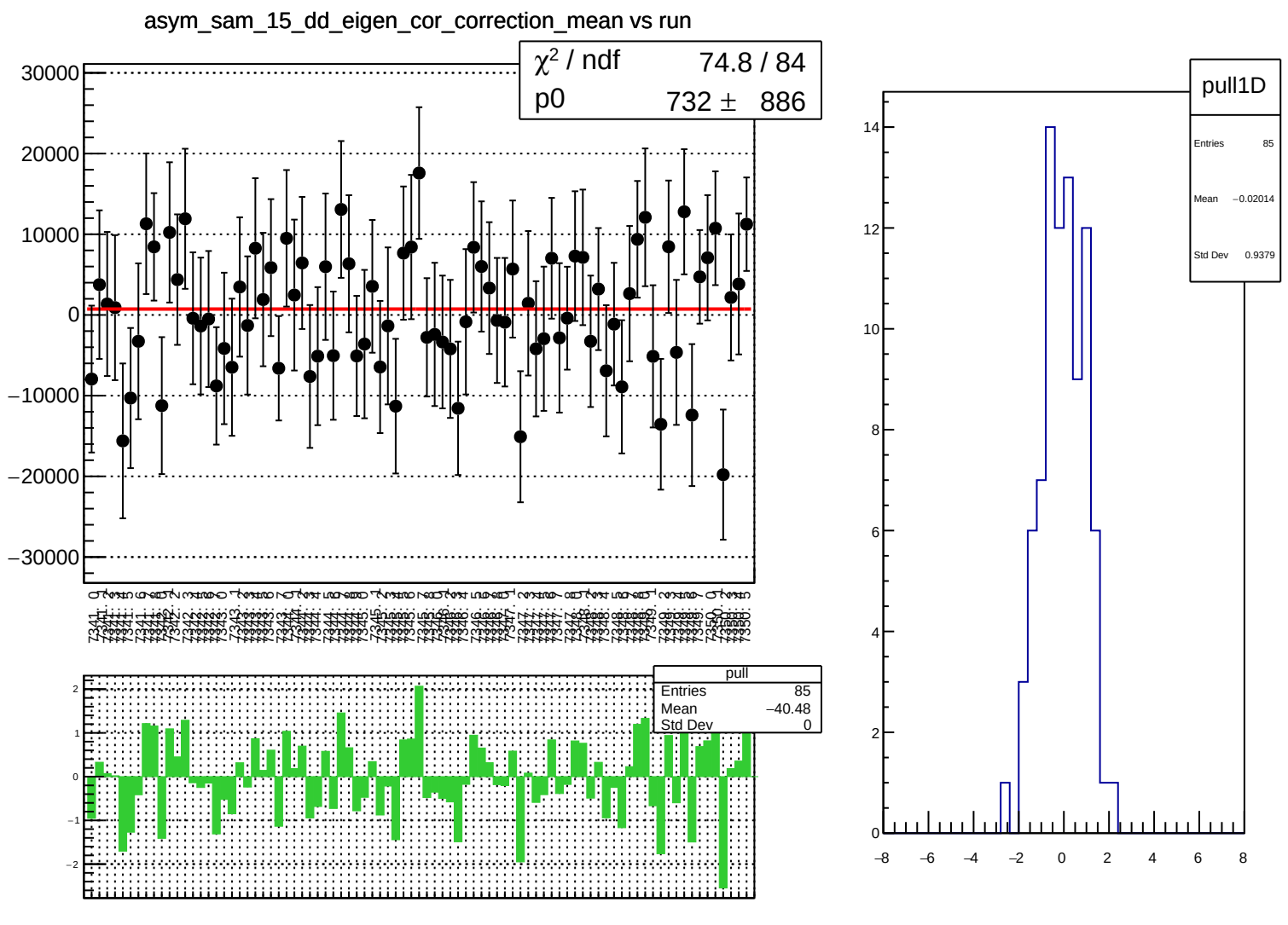

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 74.8 / 84
p0 732 ± 886
pull
Entries 85
Mean −40.48
Std Dev 0
pull1D
Entries 85
Mean −0.02014
Std Dev 0.9379

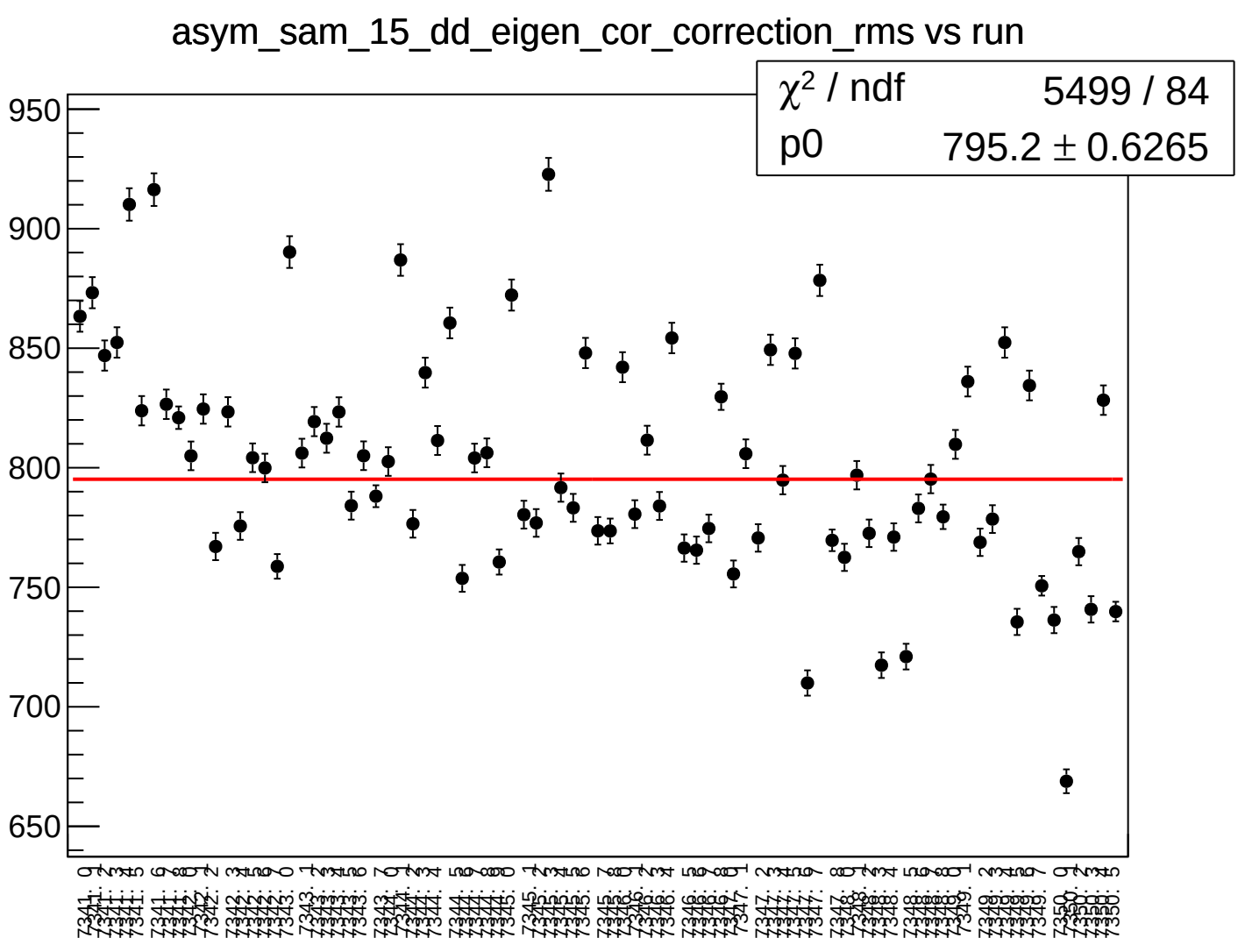

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 5499 / 84
p0 795.2 ± 0.6265
950
900
850
800
750
700
650

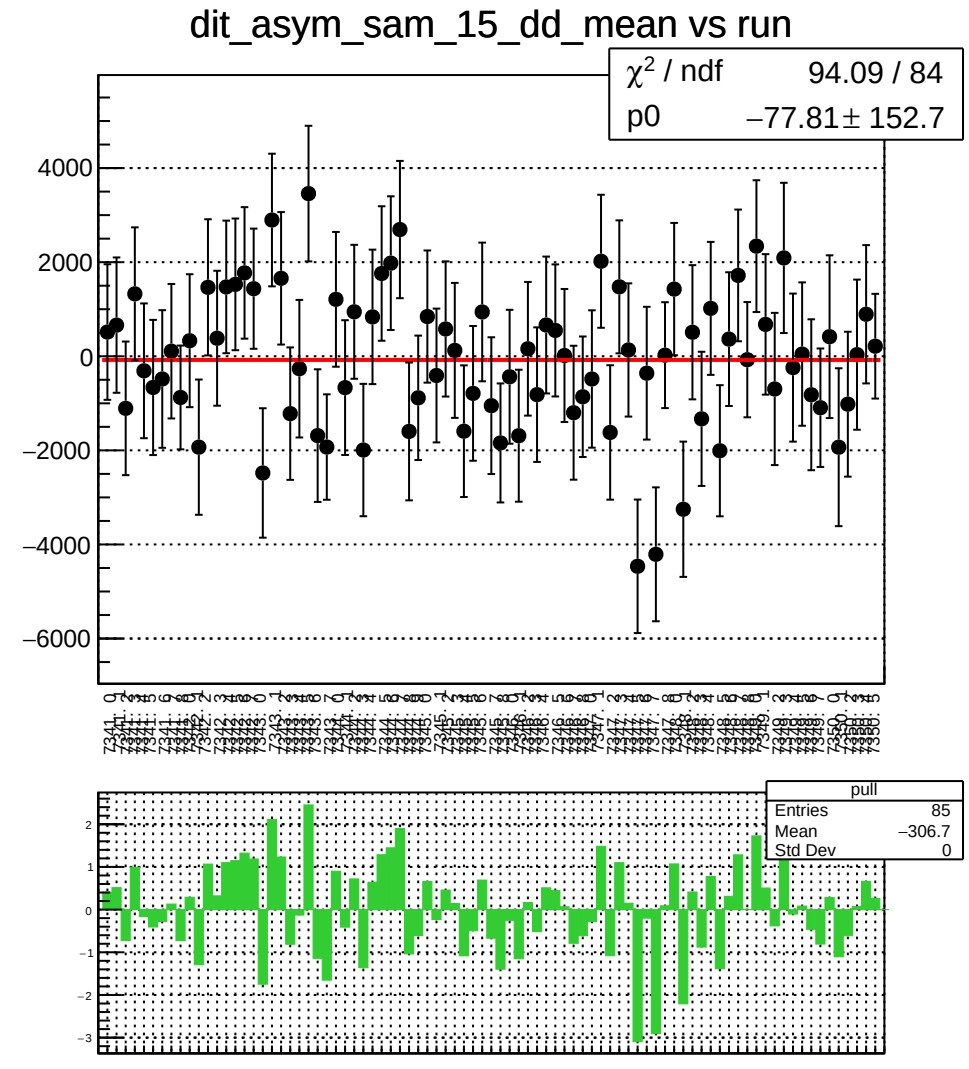

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 85.19 / 84
p0 −158.7 ± 141
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −555.2
Std Dev 0
2
1
0
−1
−2
−3

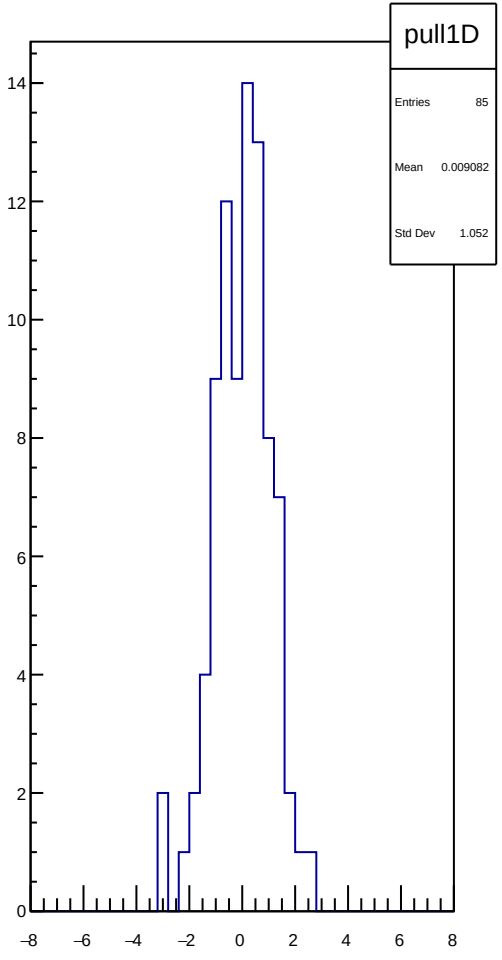

pull1D
Entries 85
Mean 0.005648
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

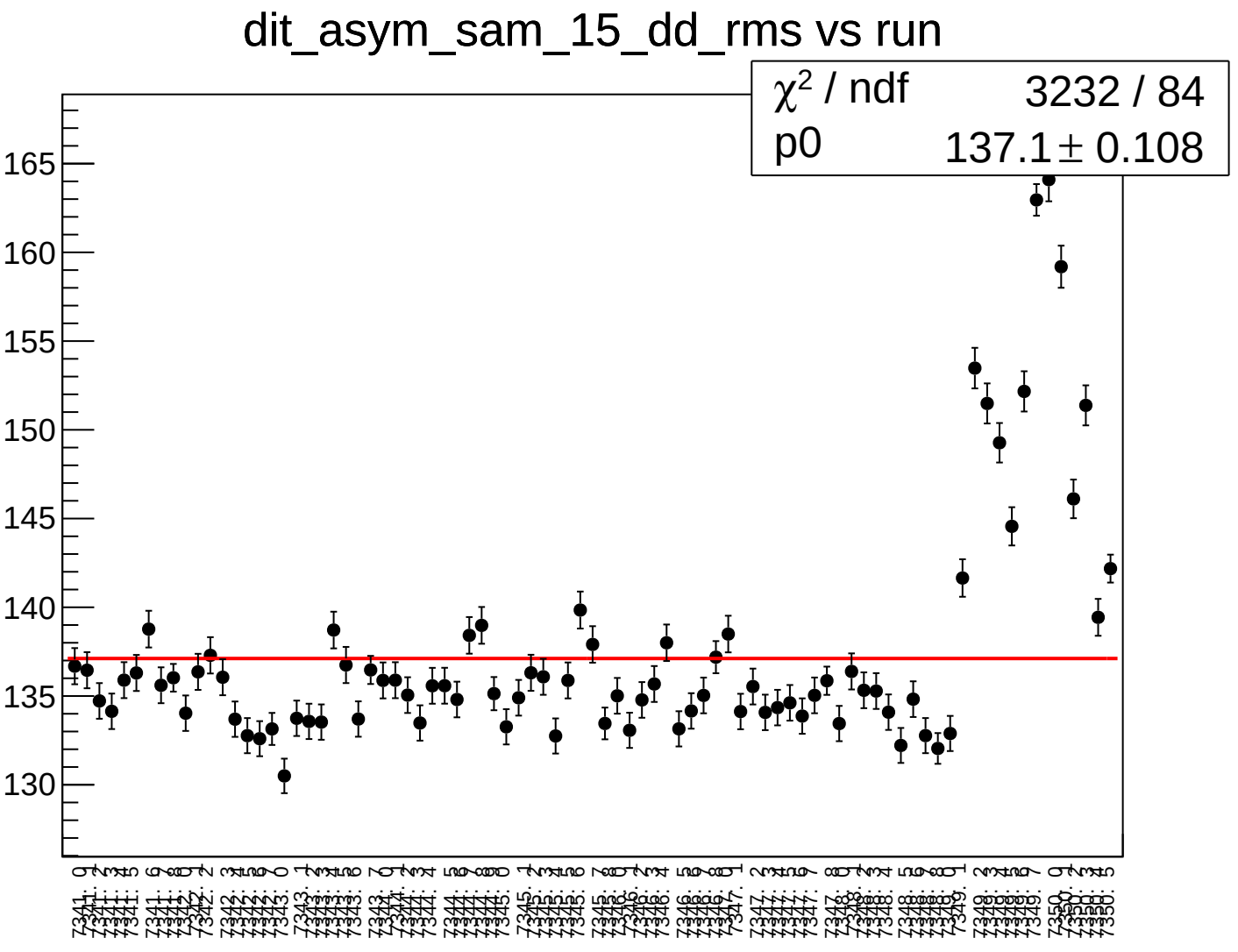

eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 819.2 / 84
p0 126.7 ± 0.09972
134
132
130
128
126
124
122
120
118

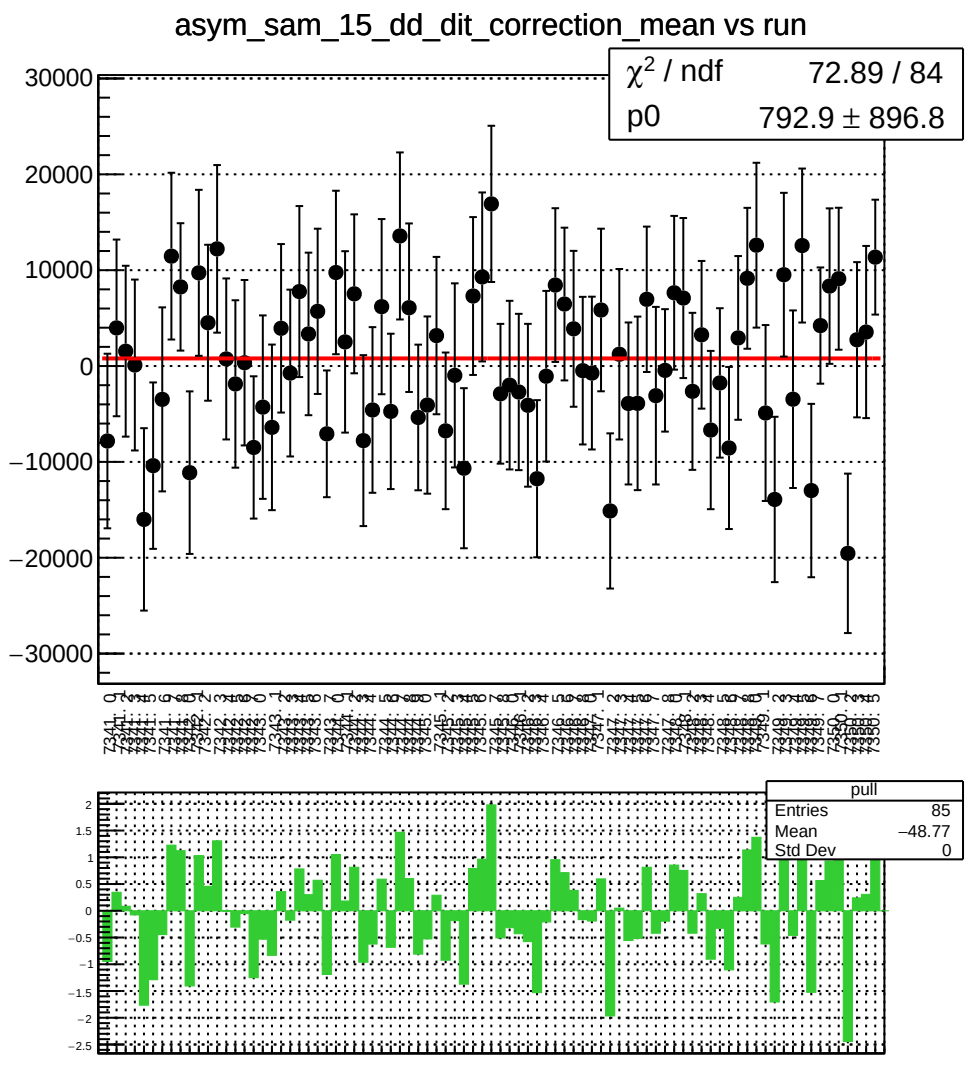

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.8 / 84
p0 732 ± 886
pull
Entries 85
Mean −40.48
Std Dev 0
pull1D
Entries 85
Mean −0.02014
Std Dev 0.9379

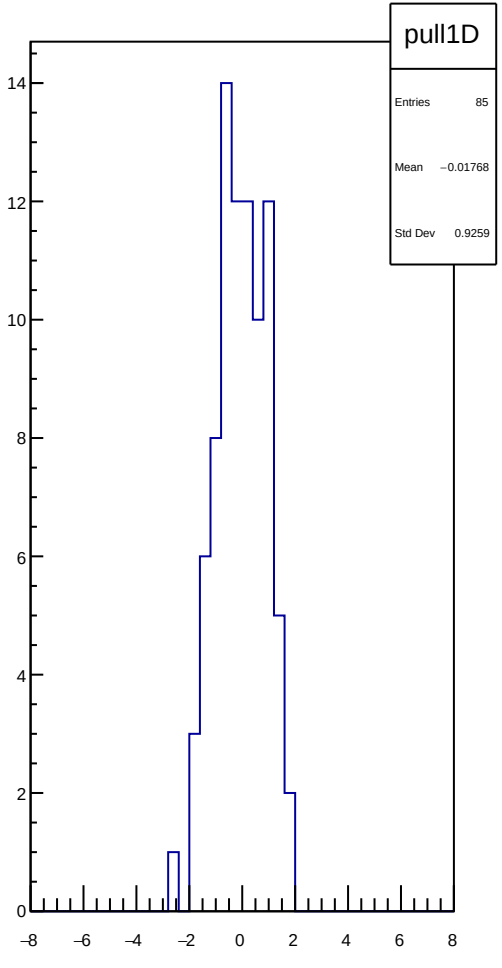

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 5499 / 84
p0 795.2 ± 0.6265
950
900
850
800
750
700
650

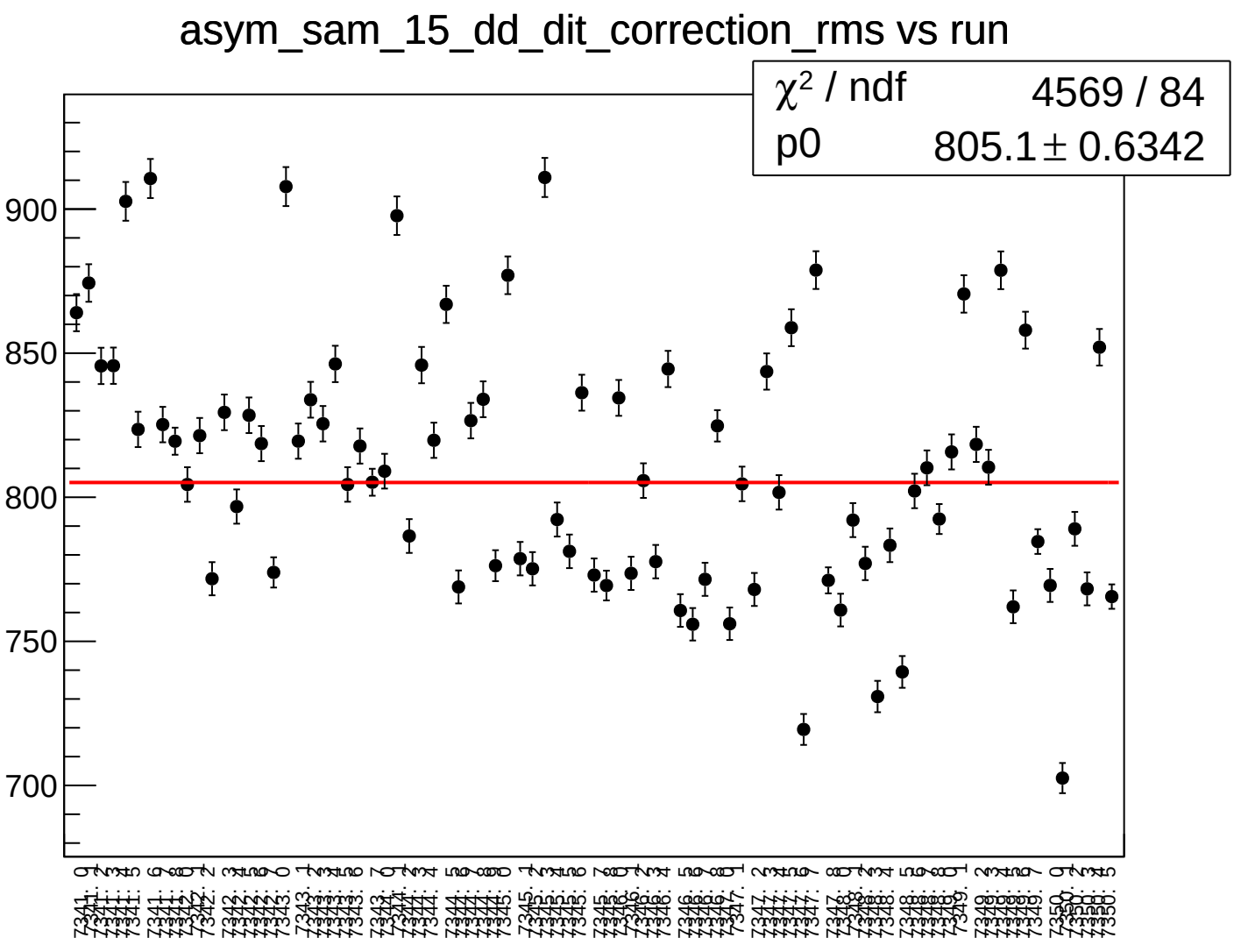

dit_asym_sam_15_dd_mean vs run
χ^2 / ndf 94.09 / 84
p0 −77.81± 152.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −306.7
Std Dev 0
2
1
0
−1
−2
−3

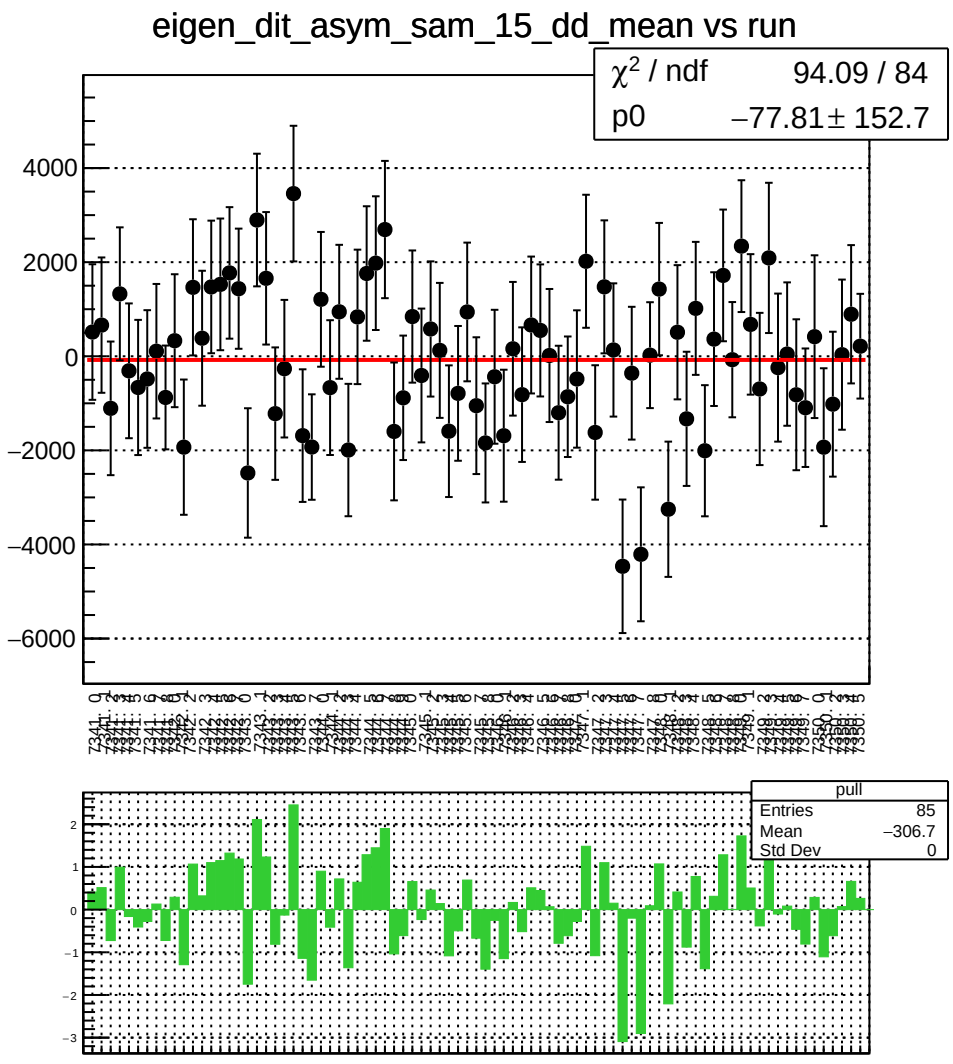

pull1D
Entries 85
Mean 0.009082
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

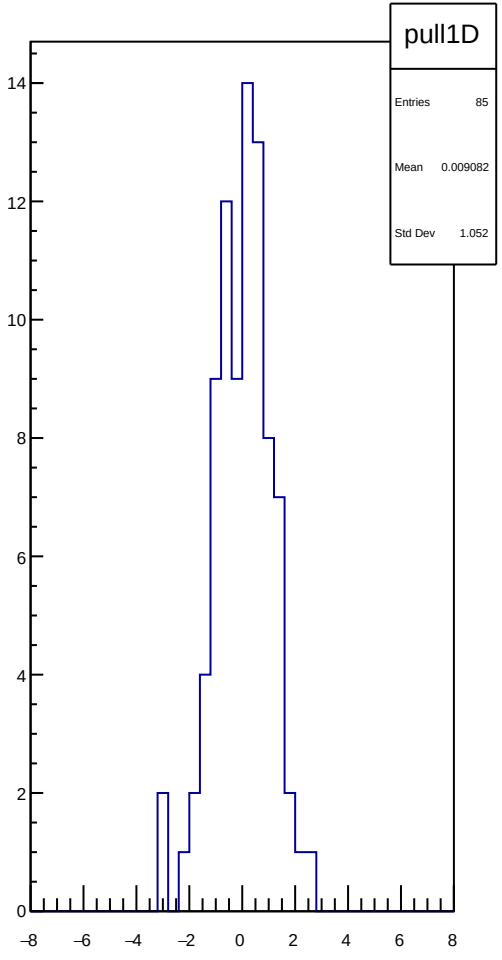

dit_asym_sam_15_dd_rms vs run
χ² / ndf 3232 / 84
p0 137.1 ± 0.108
165
160
155
150
145
140
135
130

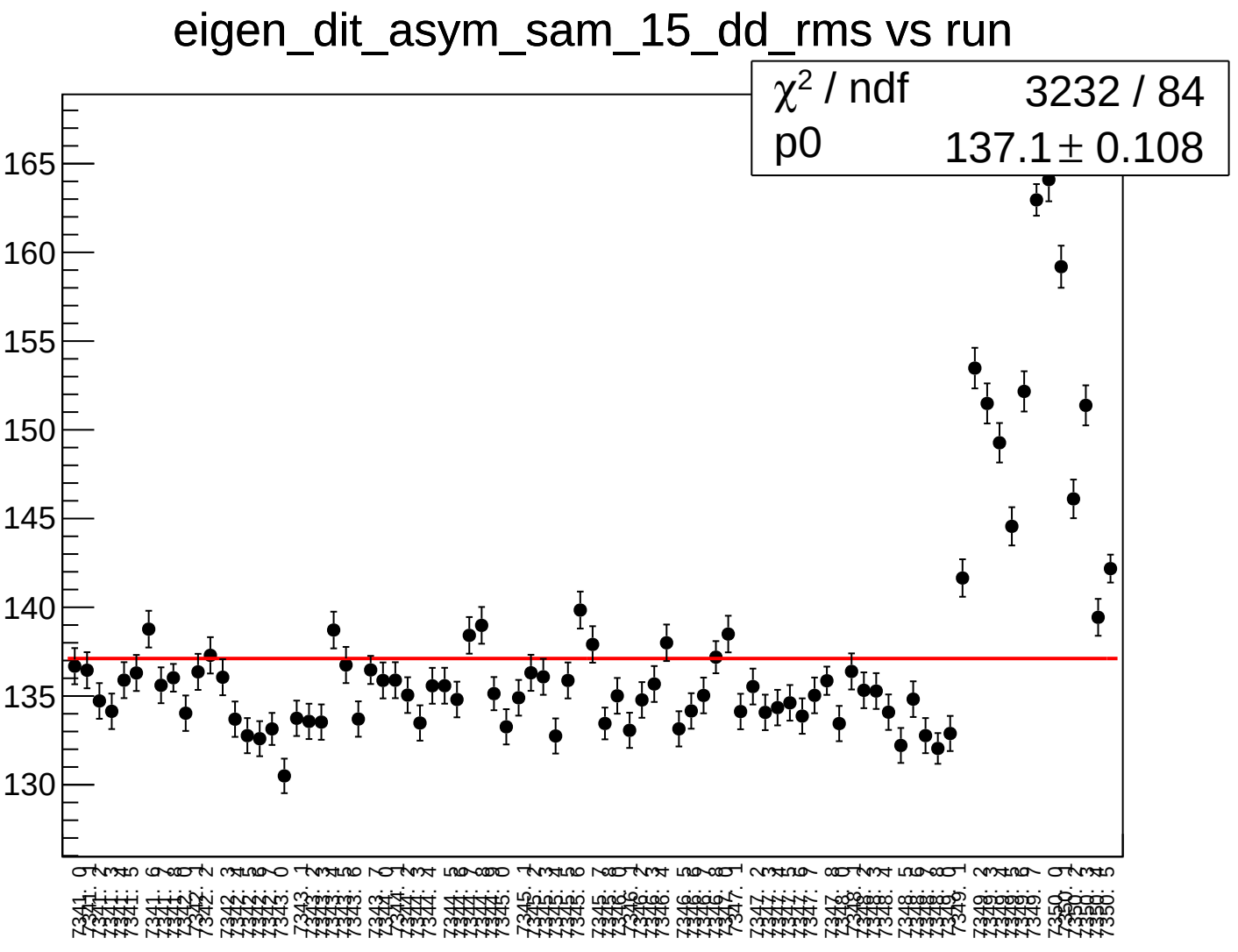

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 72.89 / 84
p0 792.9 ± 896.8
pull
Entries 85
Mean −48.77
Std Dev 0

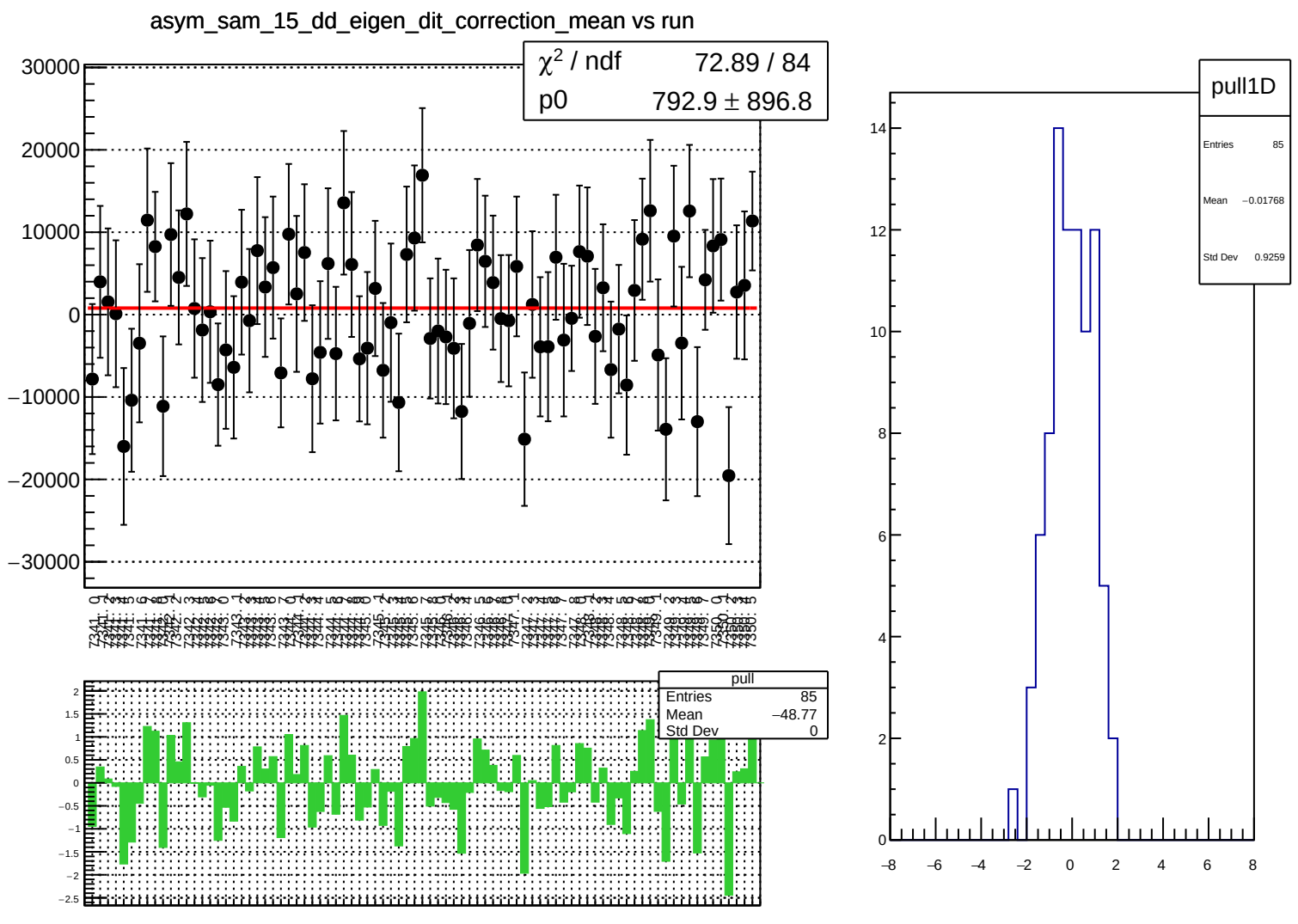

pull1D
Entries 85
Mean −0.01768
Std Dev 0.9259

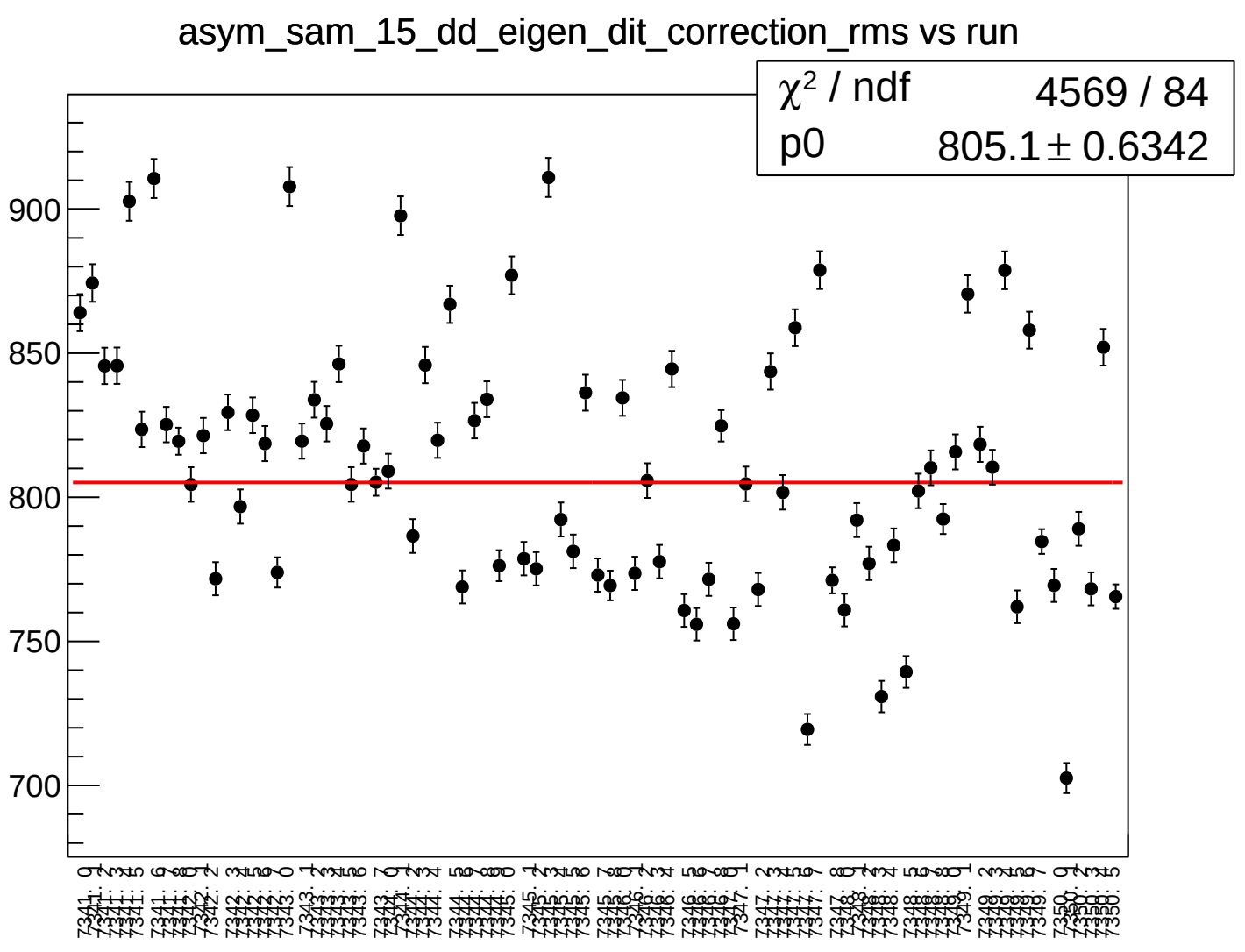

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 4569 / 84
p0 805.1 ± 0.6342
900
850
800
750
700

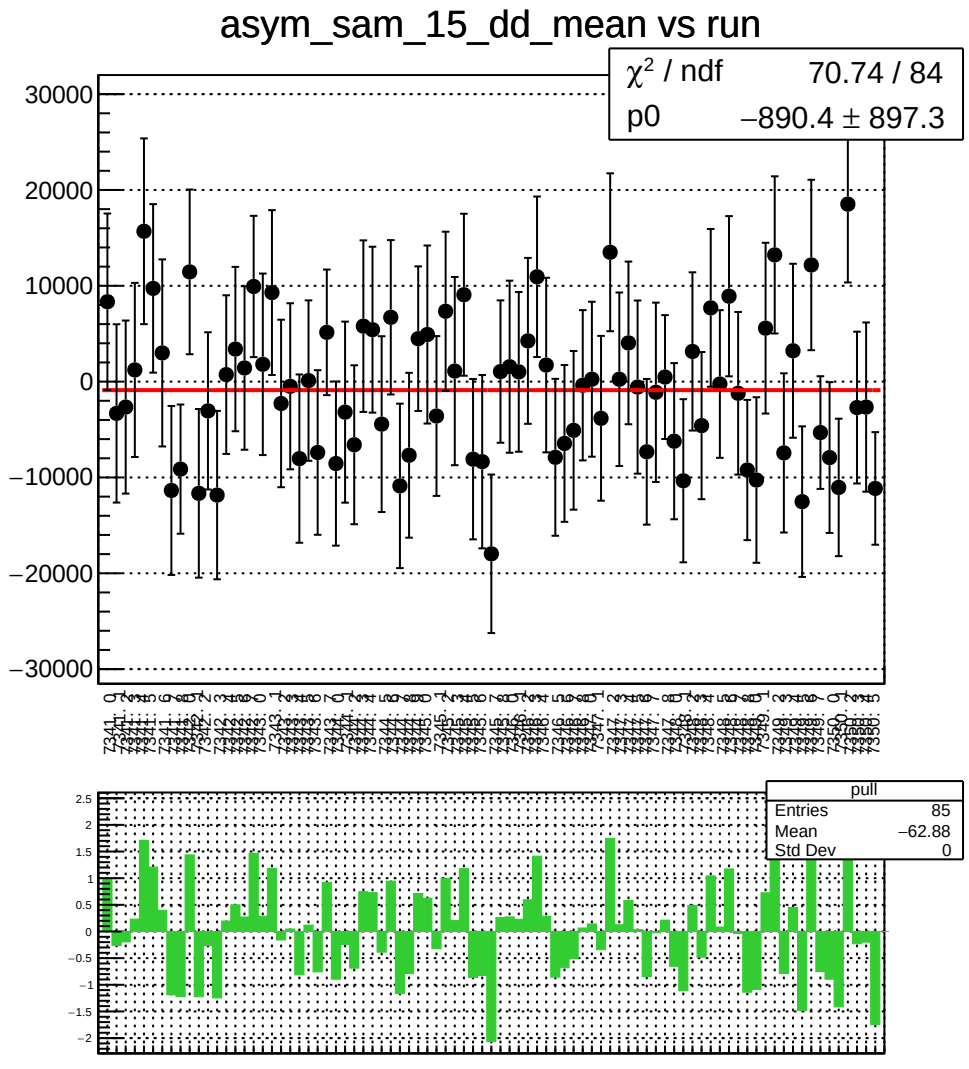

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 94.09 / 84
p0 −77.81 ± 152.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −306.7
Std Dev 0
2
1
0
−1
−2
−3

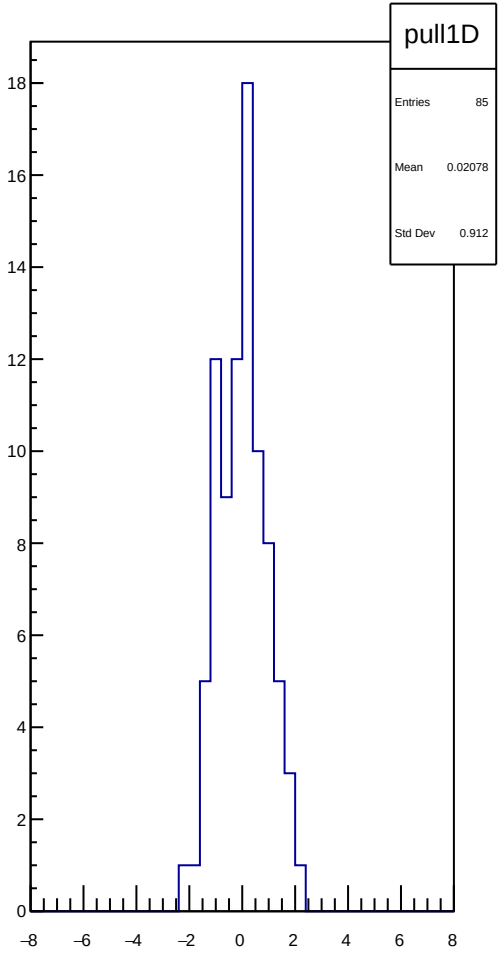

pull1D
Entries 85
Mean 0.009082
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

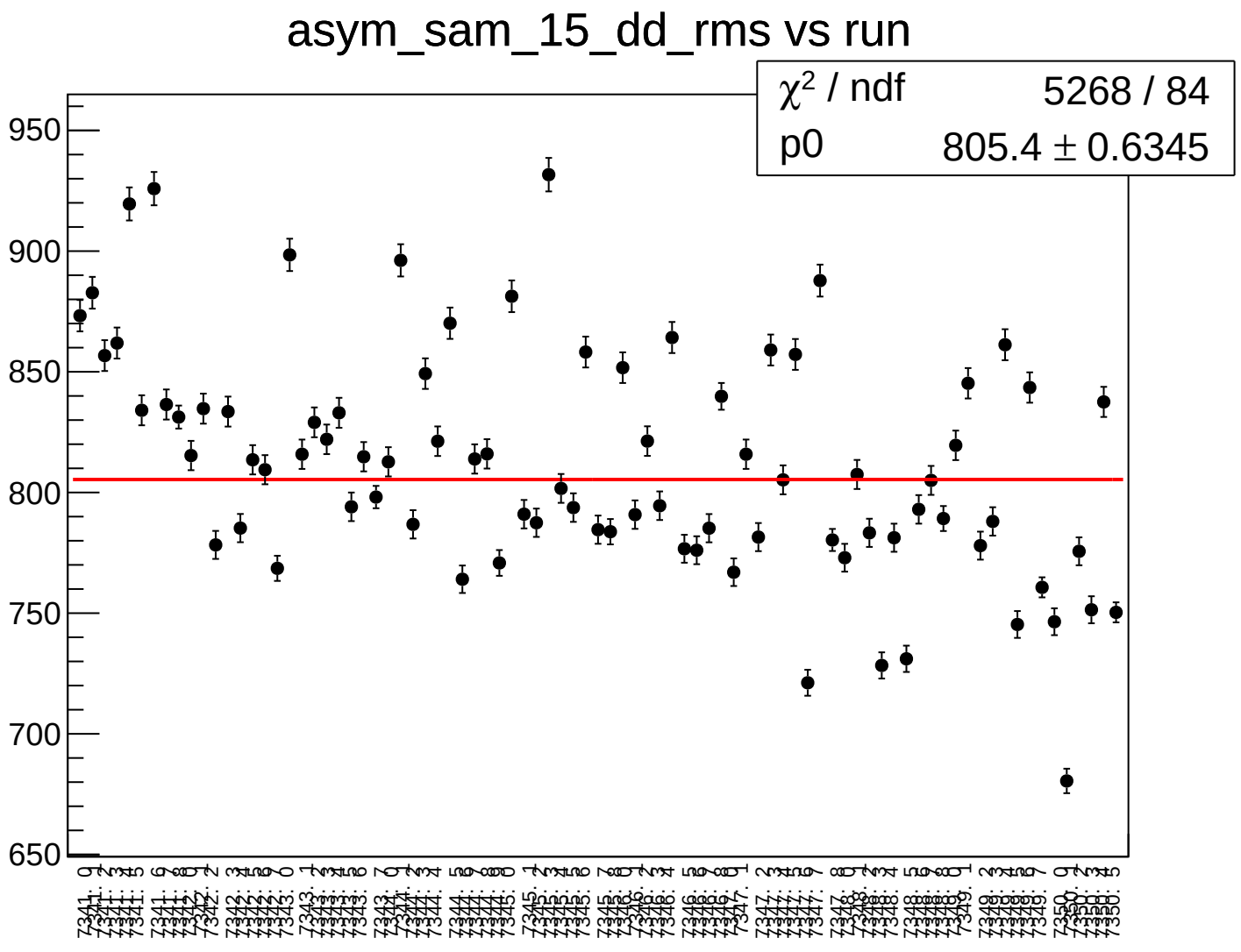

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 3232 / 84
p0 137.1 ± 0.108
165
160
155
150
145
140
135
130

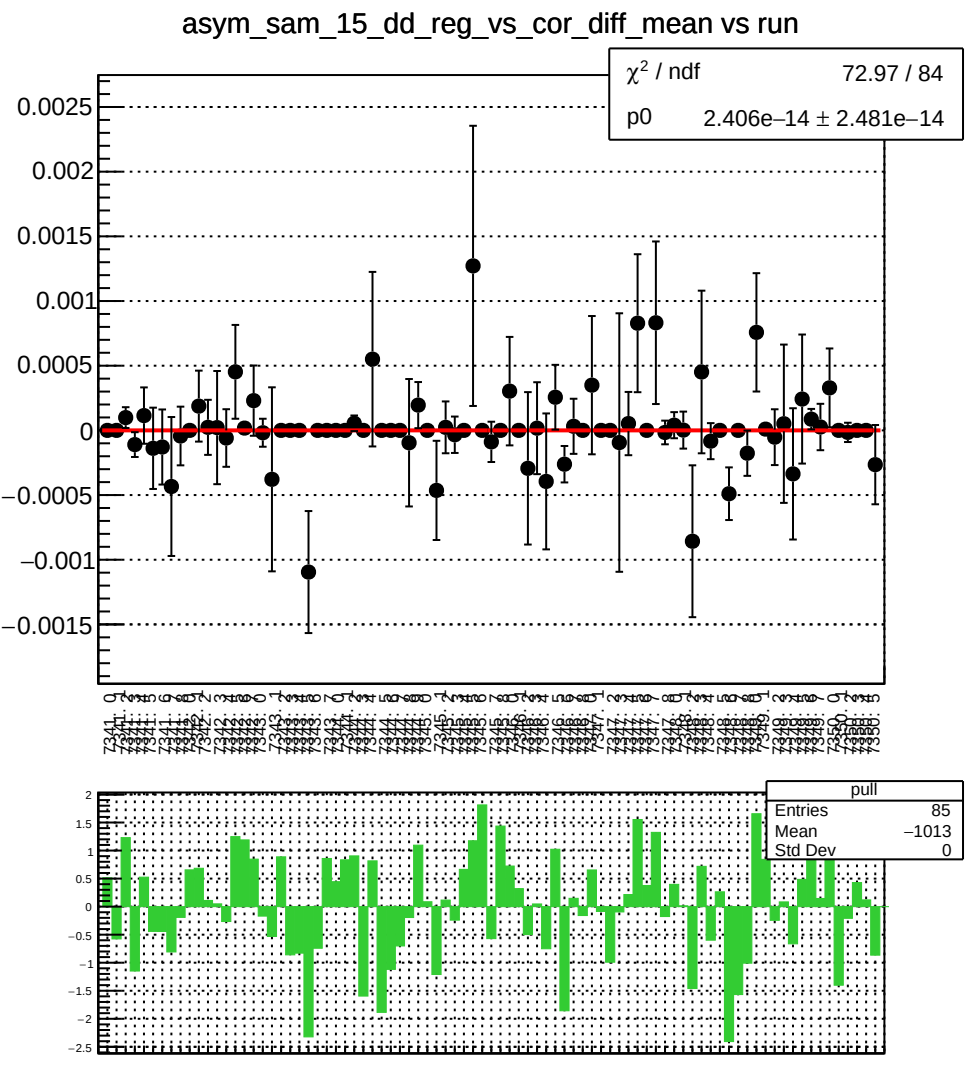

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.89 / 84
p0 792.9 ± 896.8
pull
Entries 85
Mean −48.77
Std Dev 0
pull1D
Entries 85
Mean −0.01768
Std Dev 0.9259

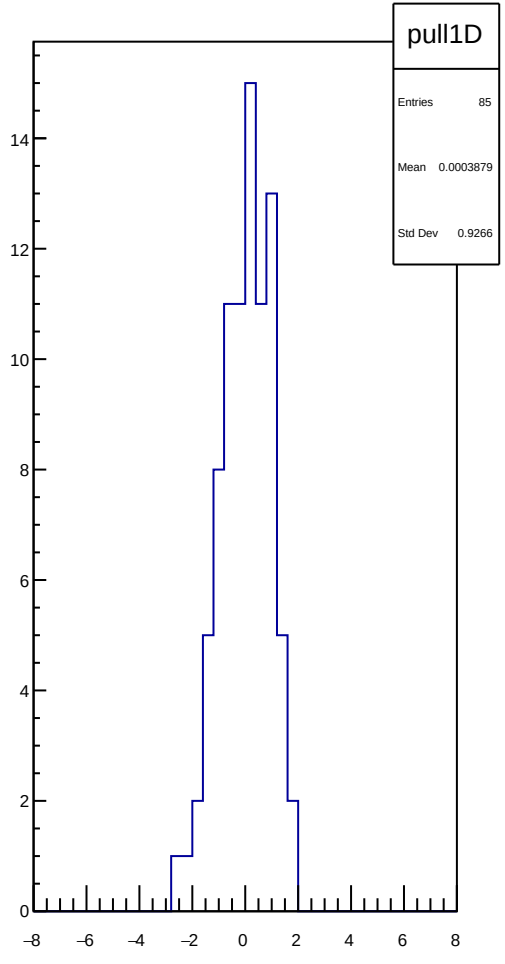

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 4569 / 84
p0 805.1 ± 0.6342
900
850
800
750
700

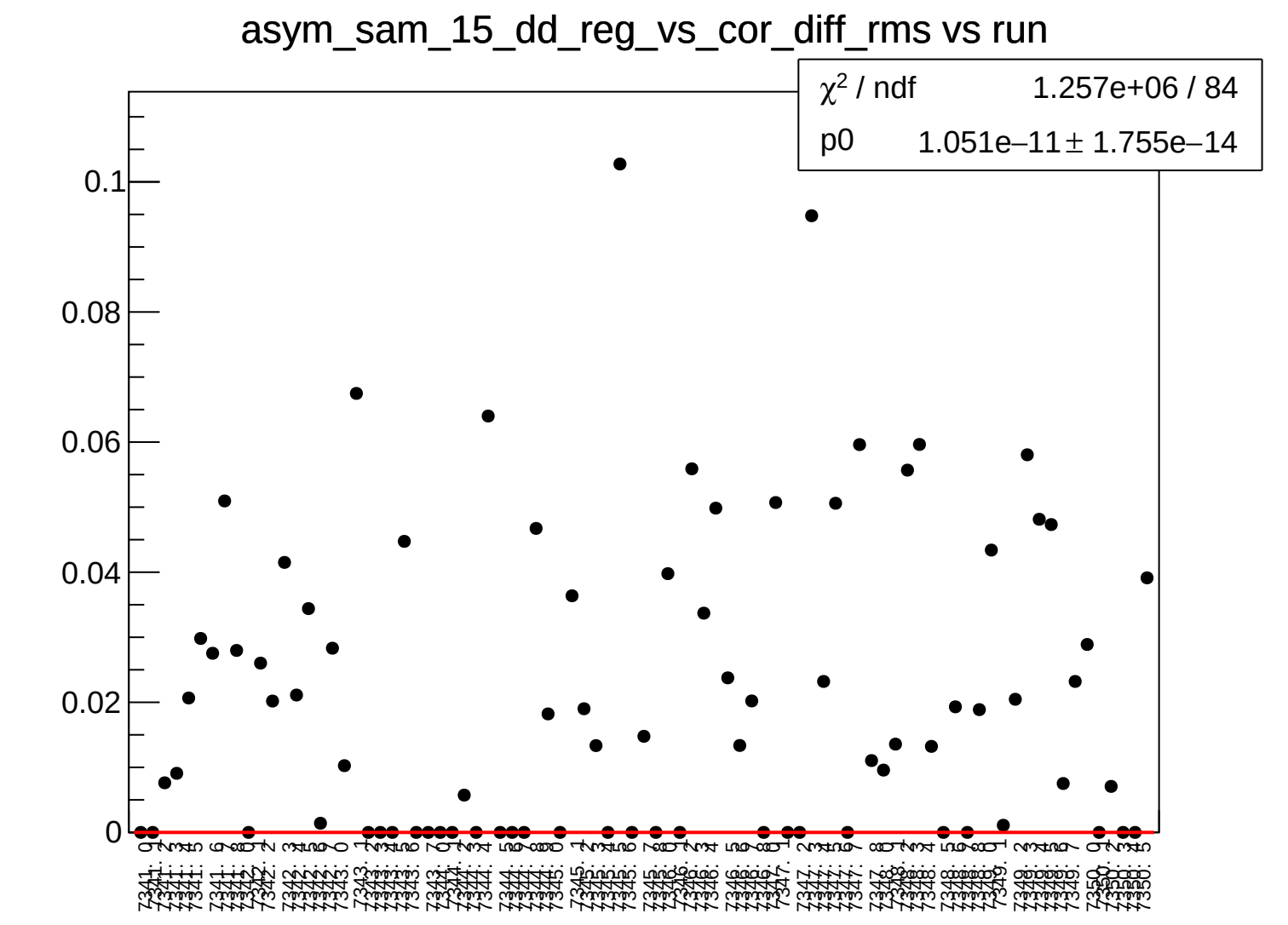

asym_sam_15_dd_mean vs run
χ² / ndf 70.74 / 84
p0 −890.4 ± 897.3
pull
Entries 85
Mean −62.88
Std Dev 0

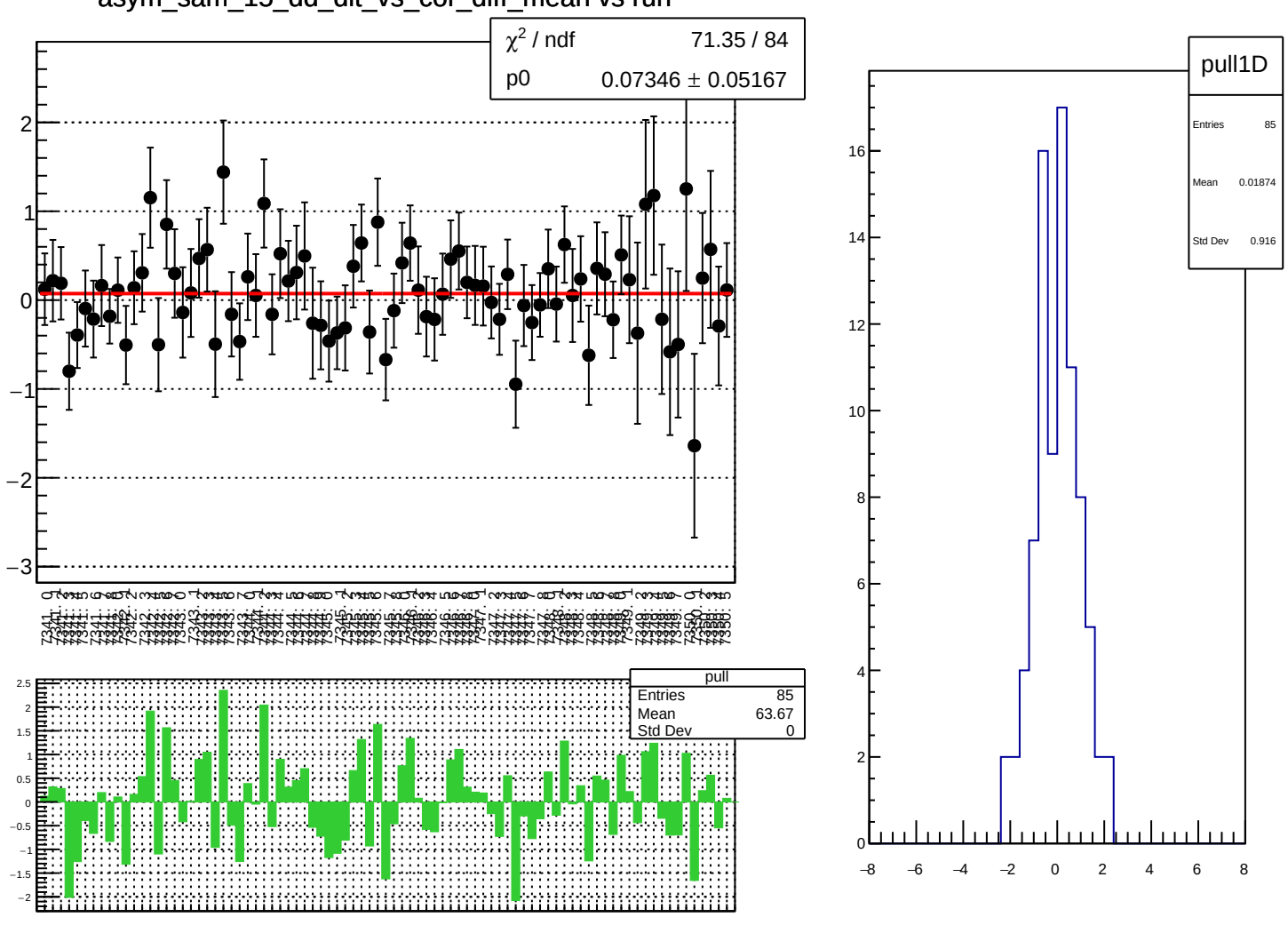

pull1D
Entries 85
Mean 0.02078
Std Dev 0.912

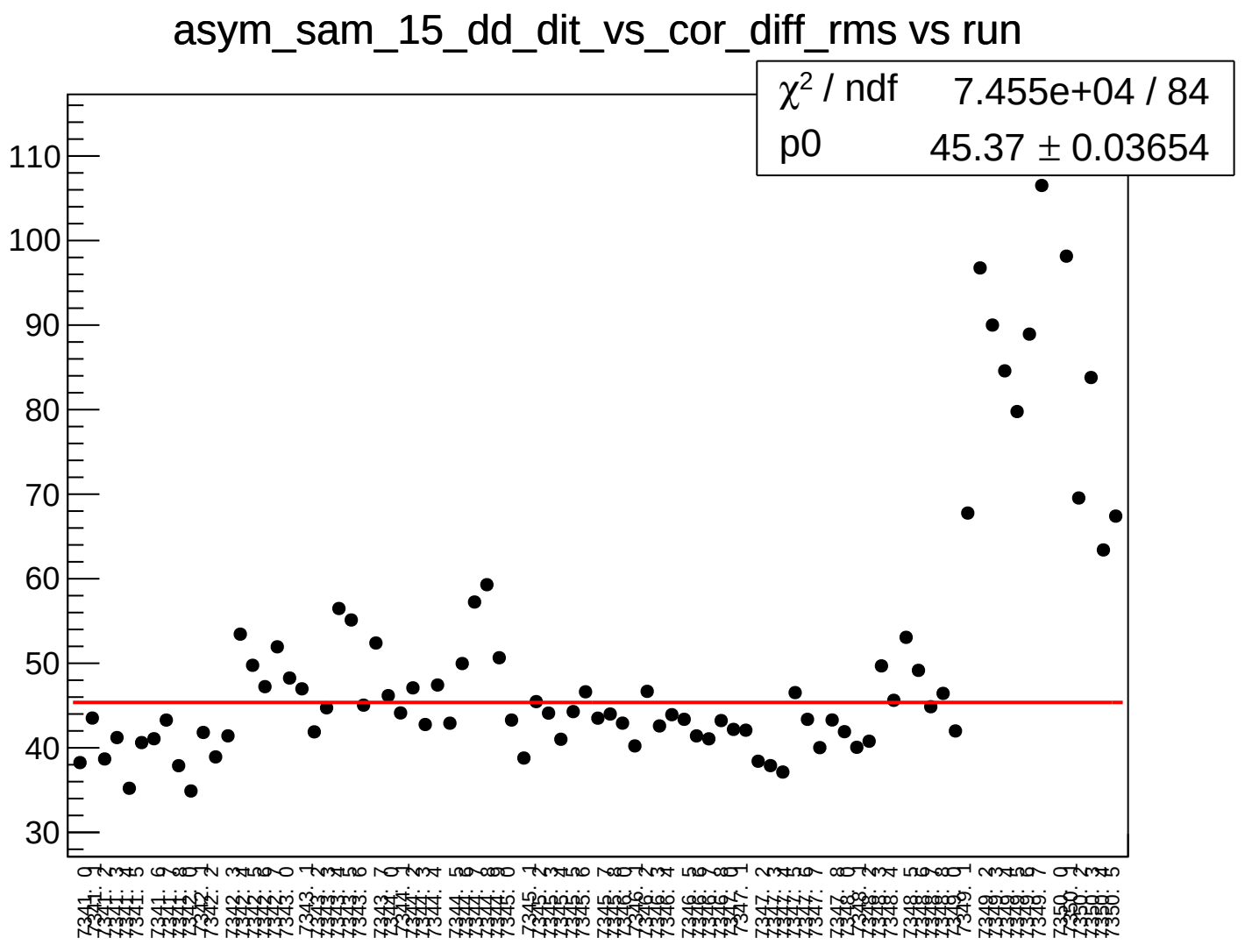

asym_sam_15_dd_rms vs run
χ² / ndf 5268 / 84
p0 805.4 ± 0.6345
950
900
850
800
750
700
650

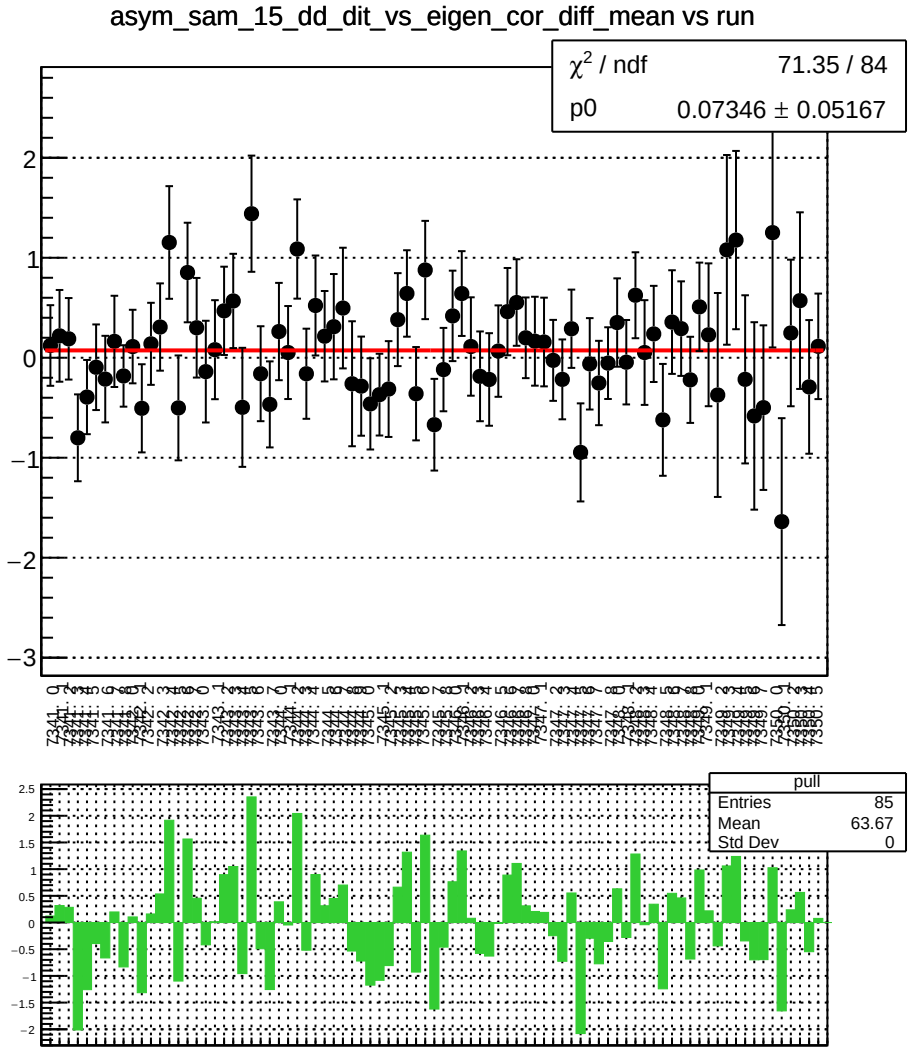

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.97 / 84
p0 2.406e−14 ± 2.481e−14
pull
Entries 85
Mean −1013
Std Dev 0

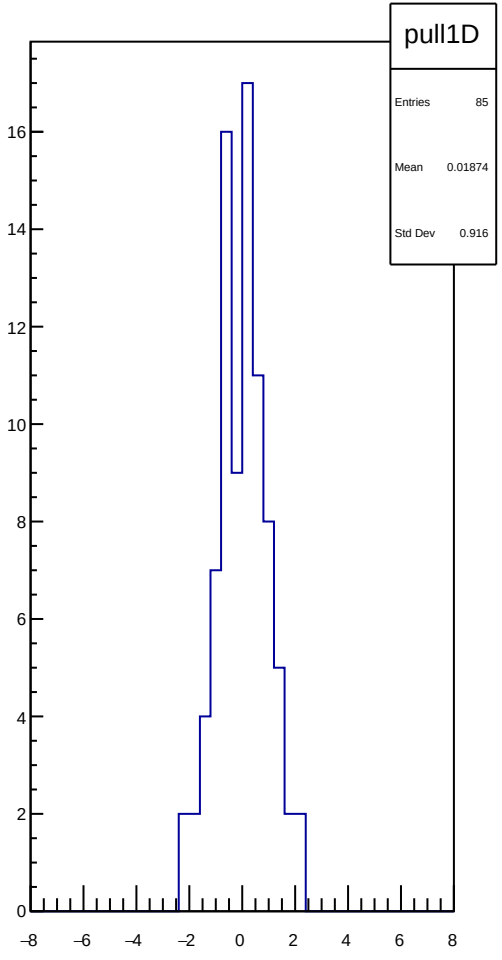

pull1D
Entries 85
Mean 0.0003879
Std Dev 0.9266

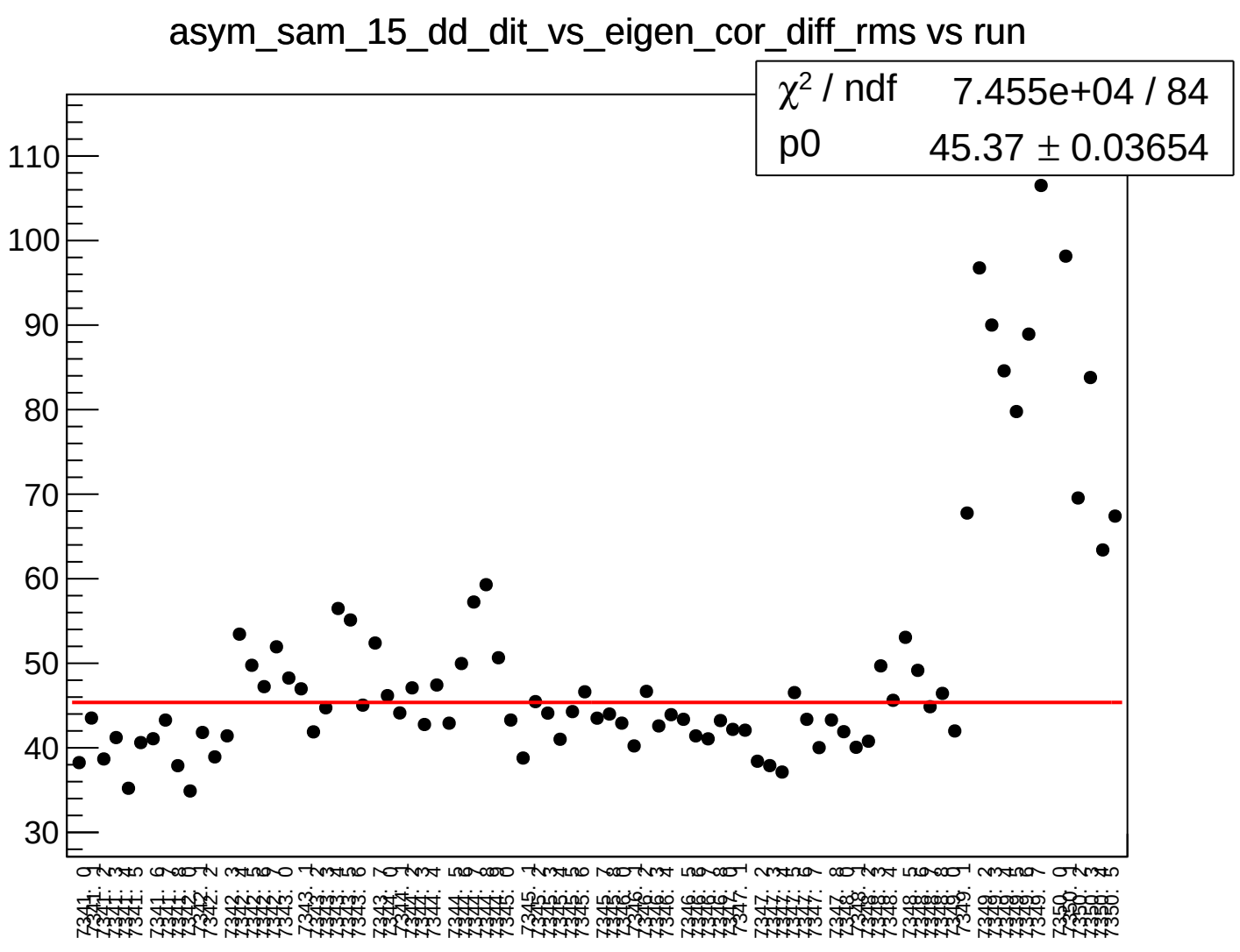

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.257e+06 / 84
p0 1.051e−11 ± 1.755e−14
0.1
0.08
0.06
0.04
0.02
0

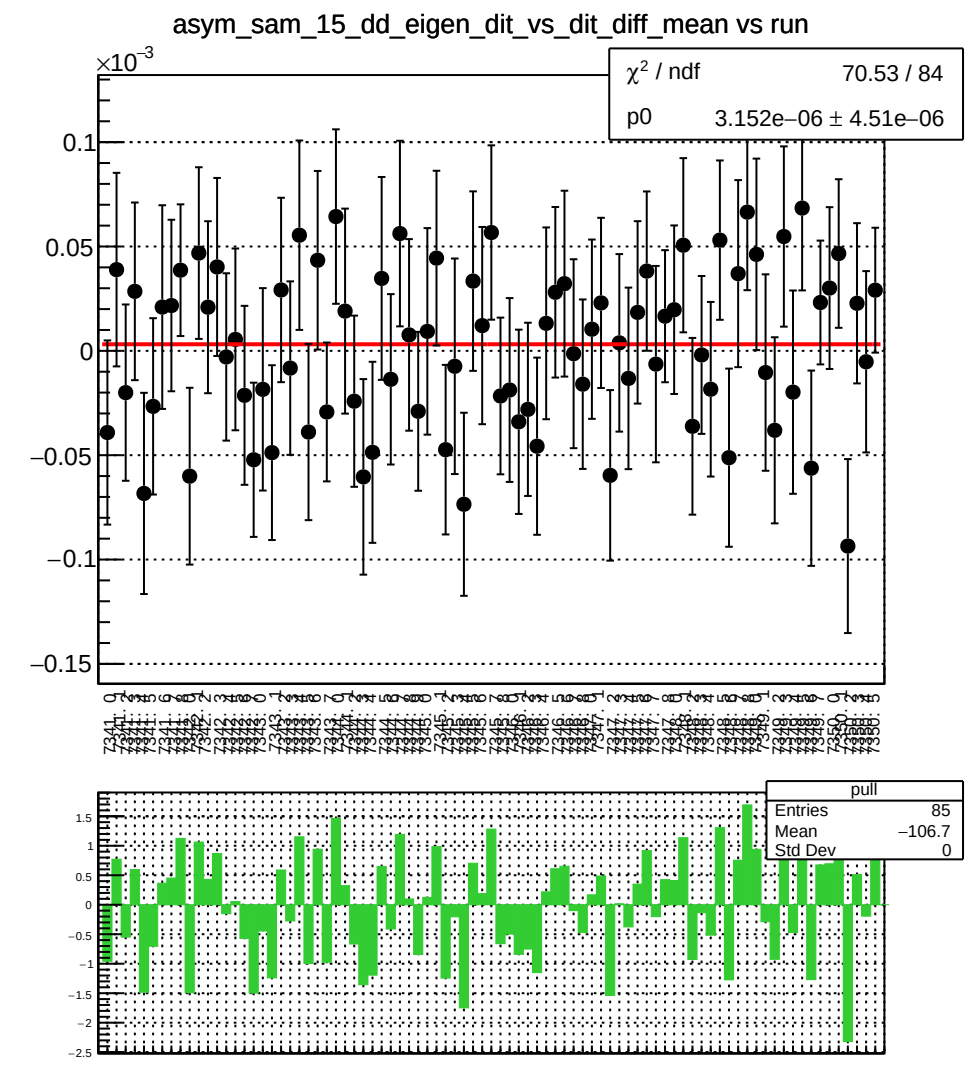

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.35 / 84
p0 0.07346 ± 0.05167
pull
Entries 85
Mean 63.67
Std Dev 0
pull1D
Entries 85
Mean 0.01874
Std Dev 0.916

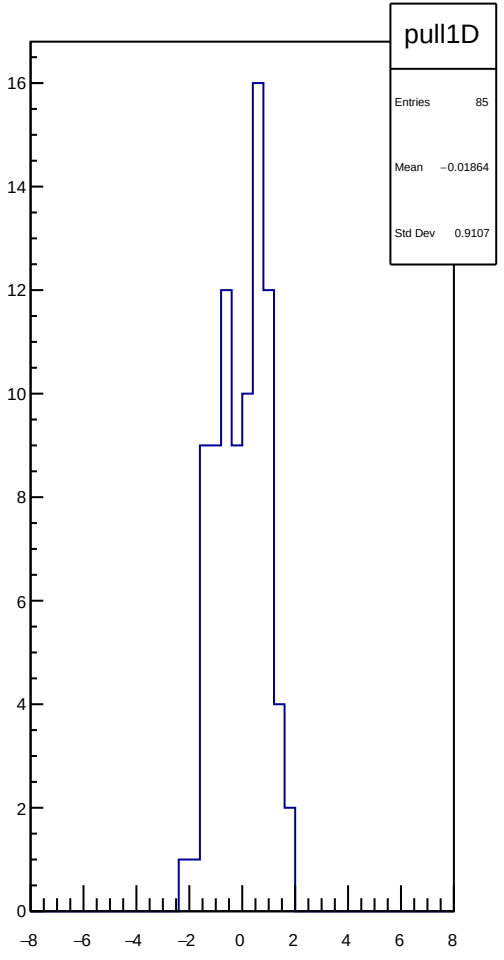

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.455e+04 / 84
p0 45.37 ± 0.03654
110
100
90
80
70
60
50
40
30

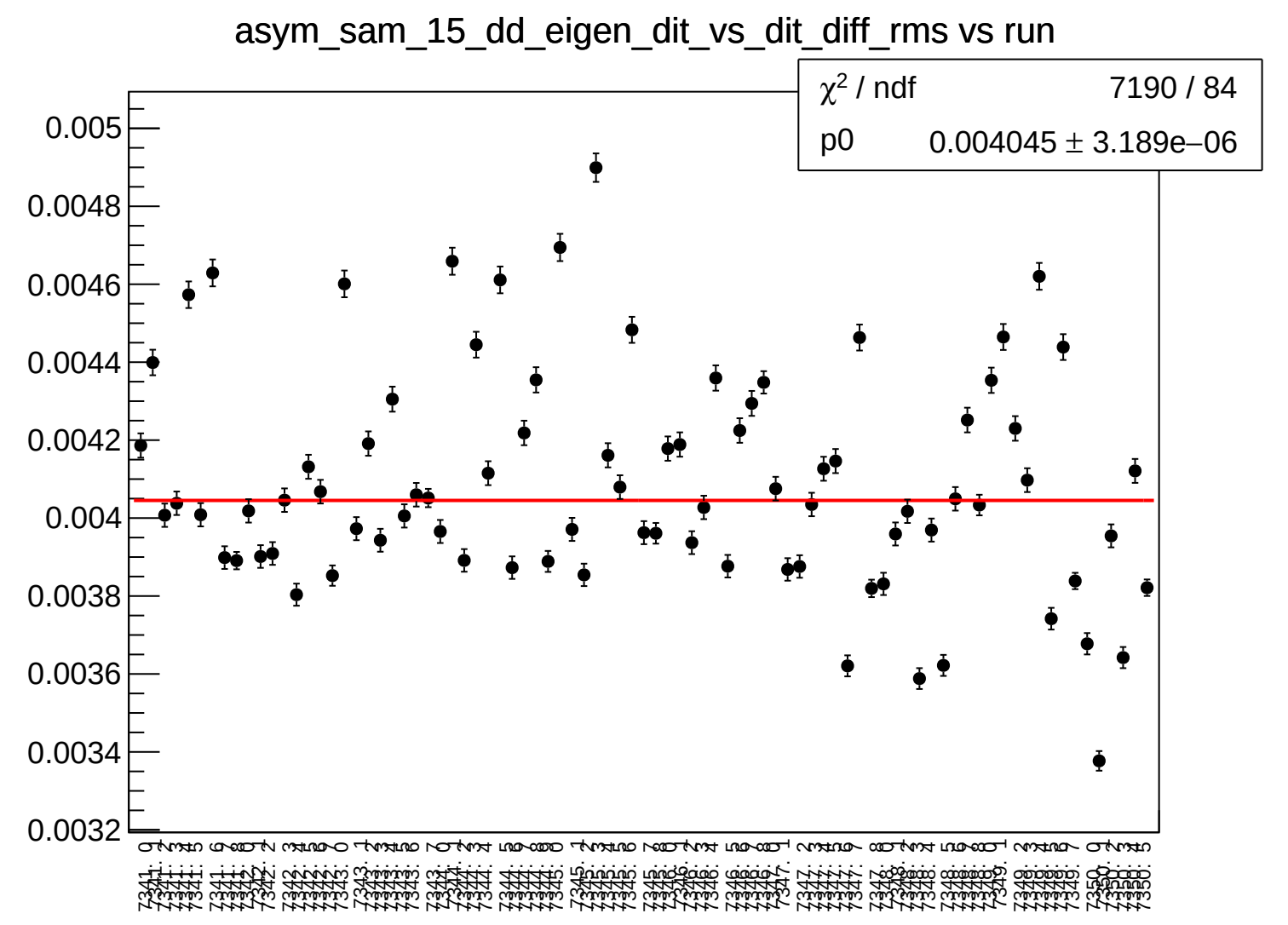

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.35 / 84
p0 0.07346 ± 0.05167
pull
Entries 85
Mean 63.67
Std Dev 0

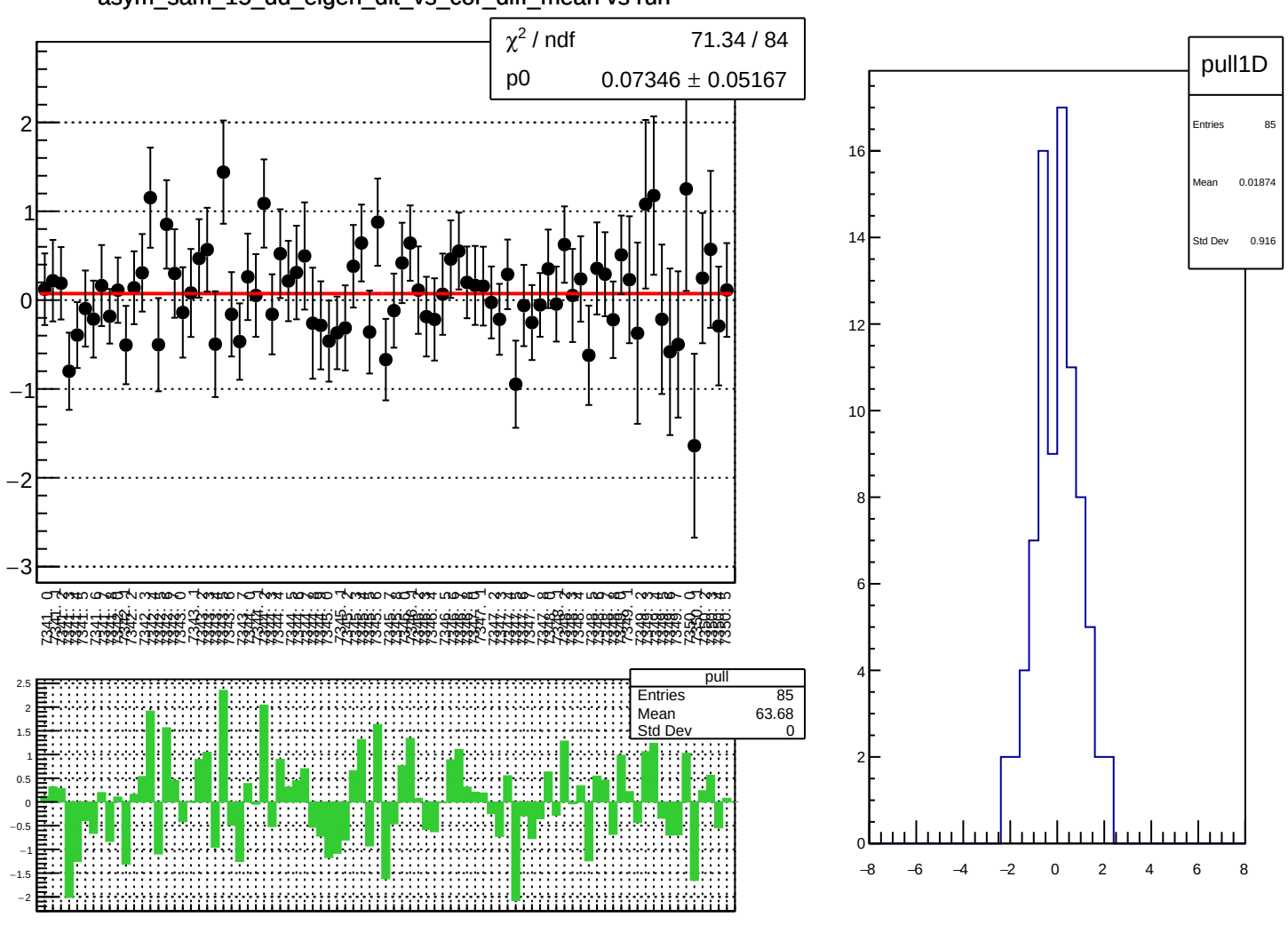

pull1D
Entries 85
Mean 0.01874
Std Dev 0.916

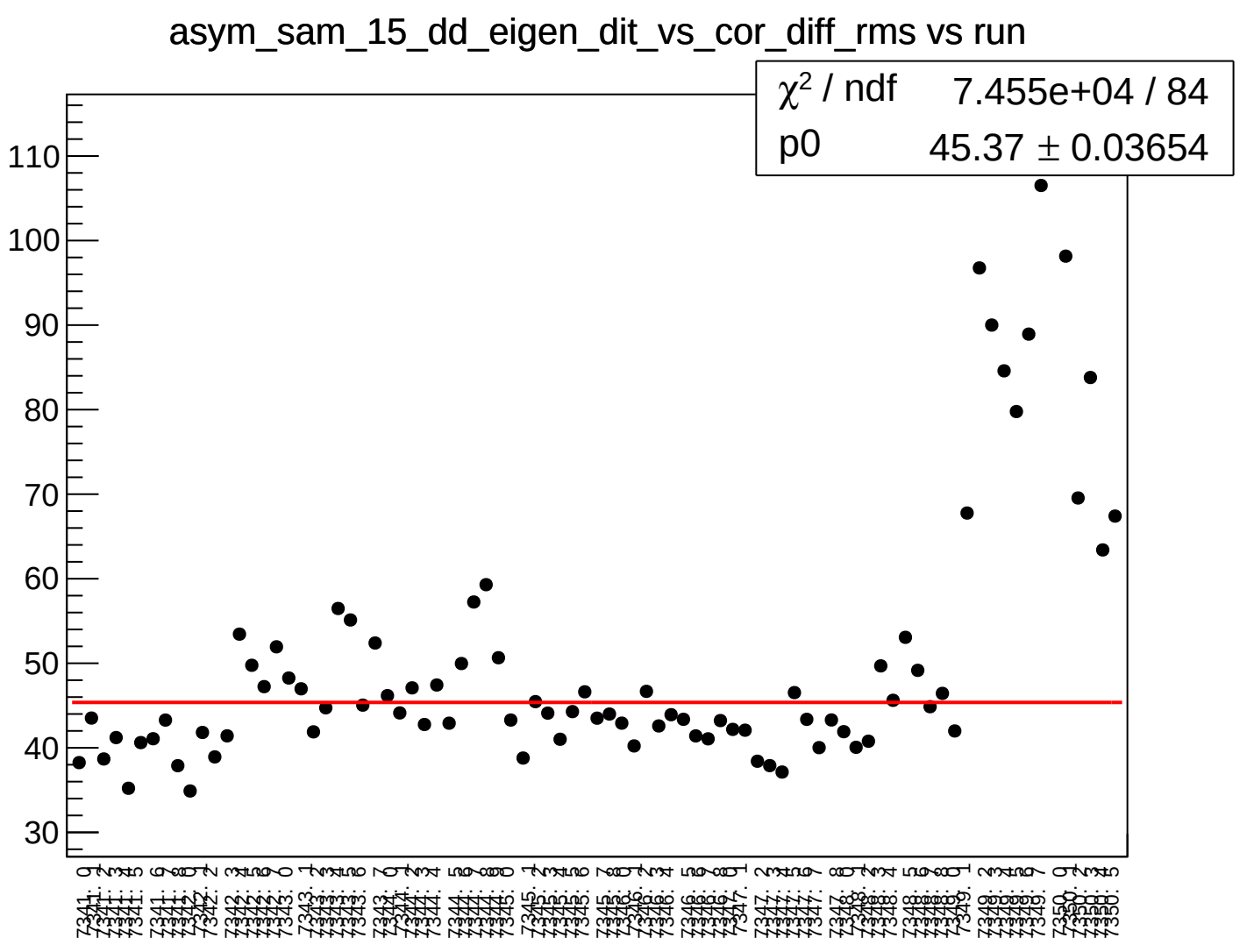

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.455e+04 / 84
p0 45.37 ± 0.03654
110
100
90
80
70
60
50
40
30

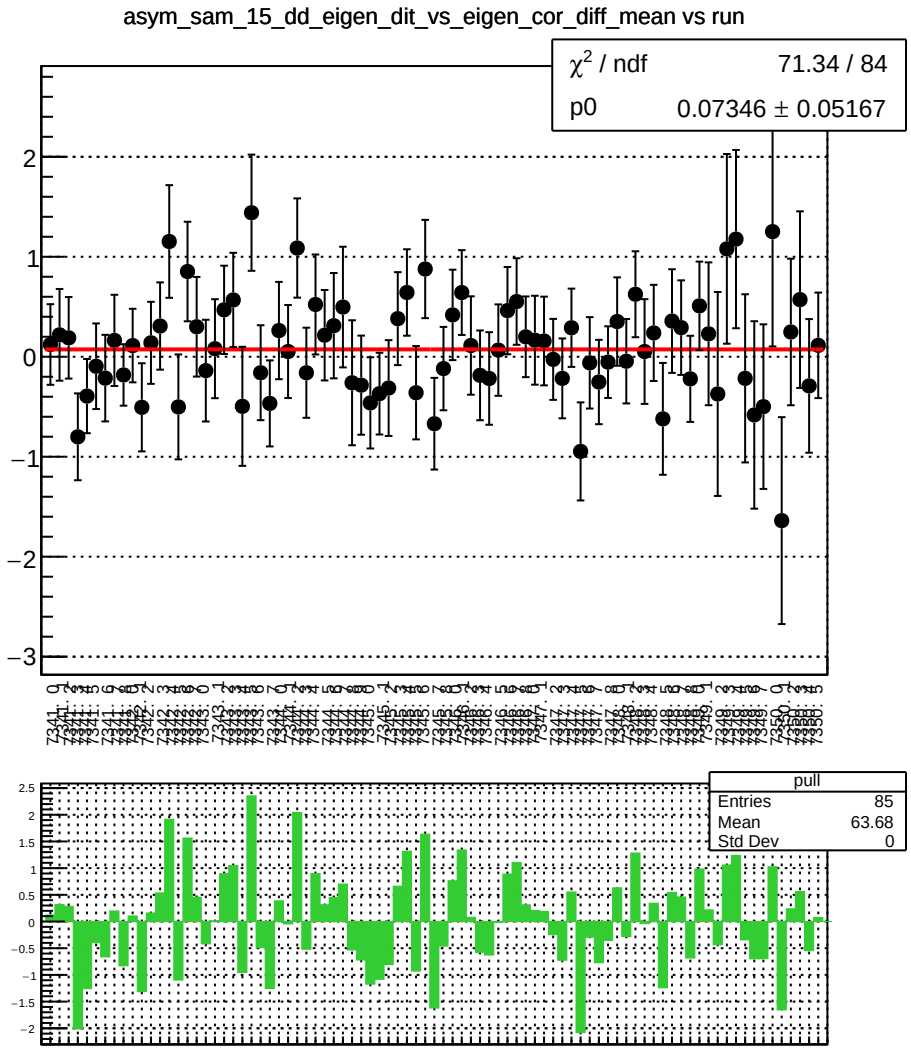

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.53 / 84
p0 3.152e−06 ± 4.51e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean −106.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

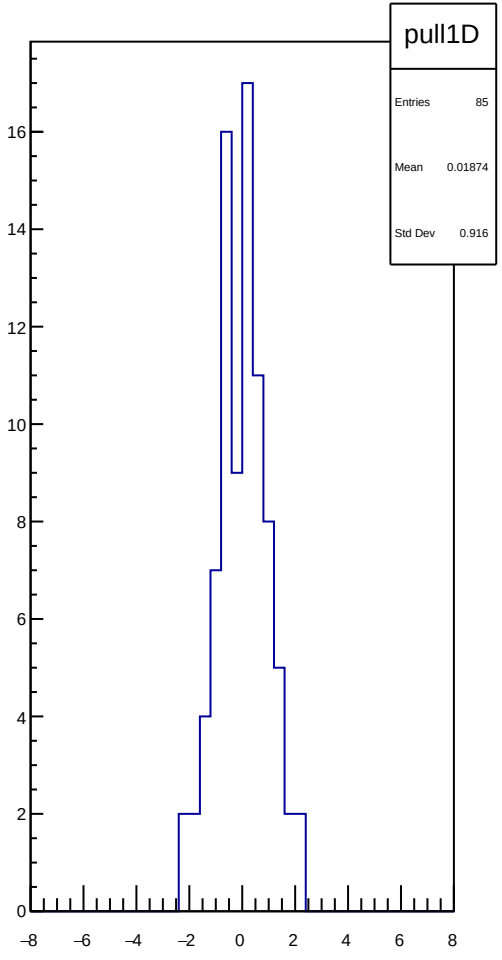

pull1D
Entries 85
Mean −0.01864
Std Dev 0.9107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

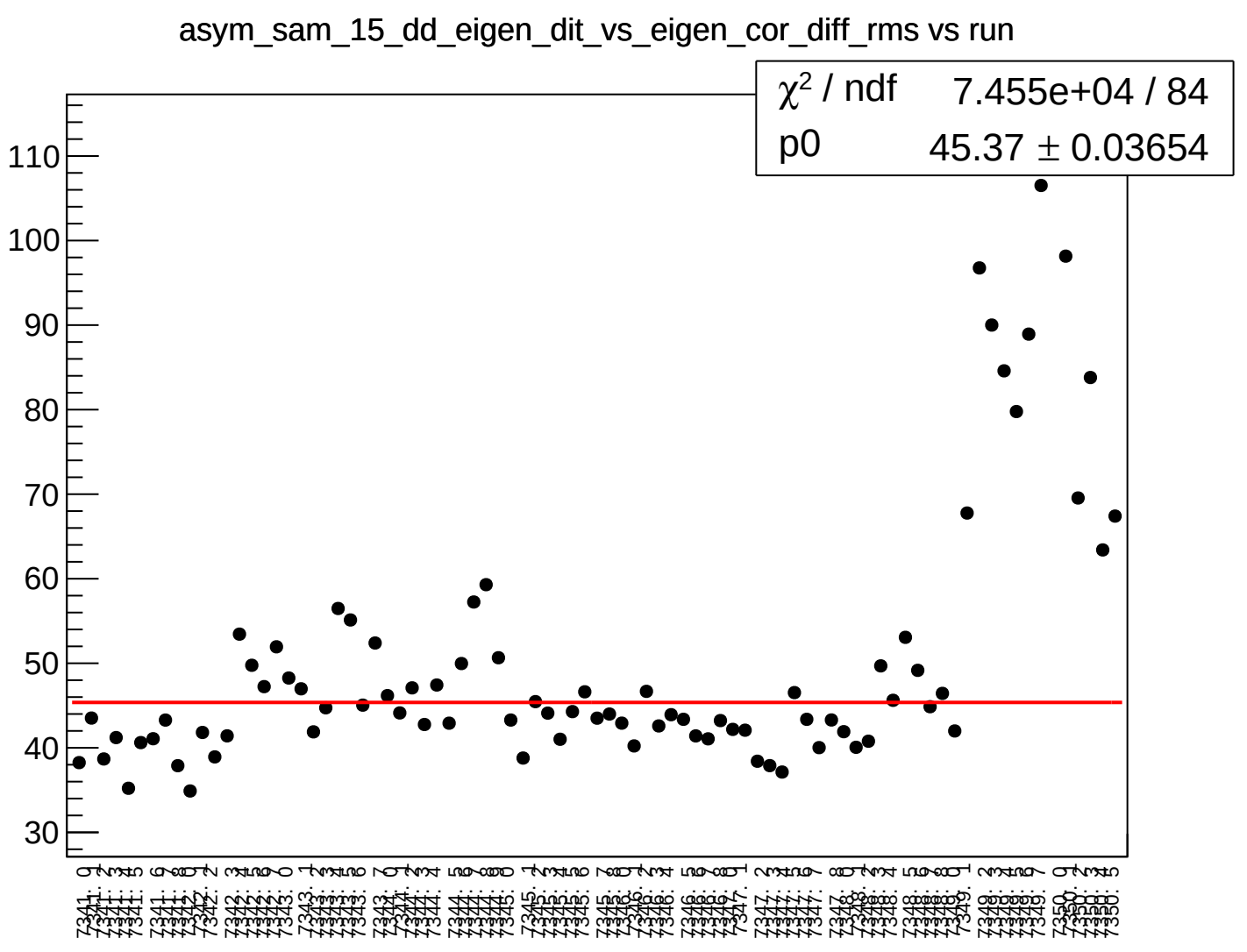

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7190 / 84
p0 0.004045 ± 3.189e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

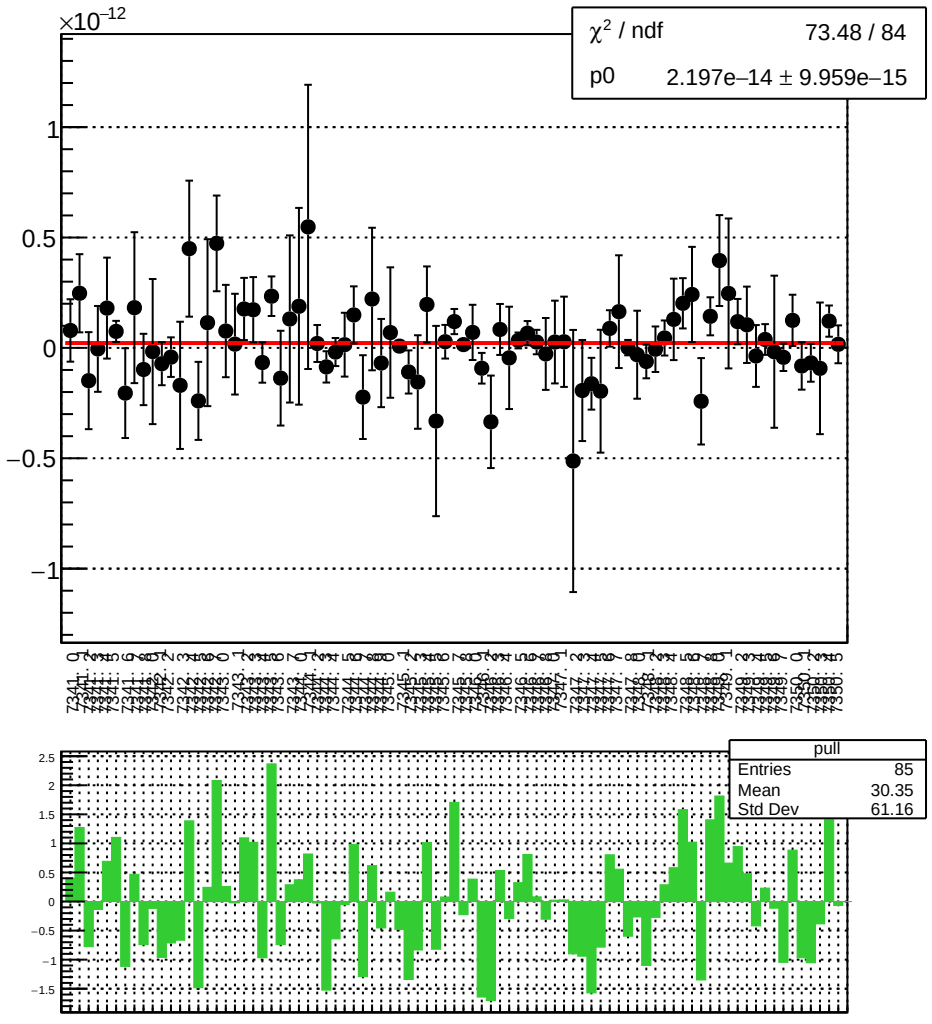

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.34 / 84
p0 0.07346 ± 0.05167
pull
Entries 85
Mean 63.68
Std Dev 0
pull1D
Entries 85
Mean 0.01874
Std Dev 0.916

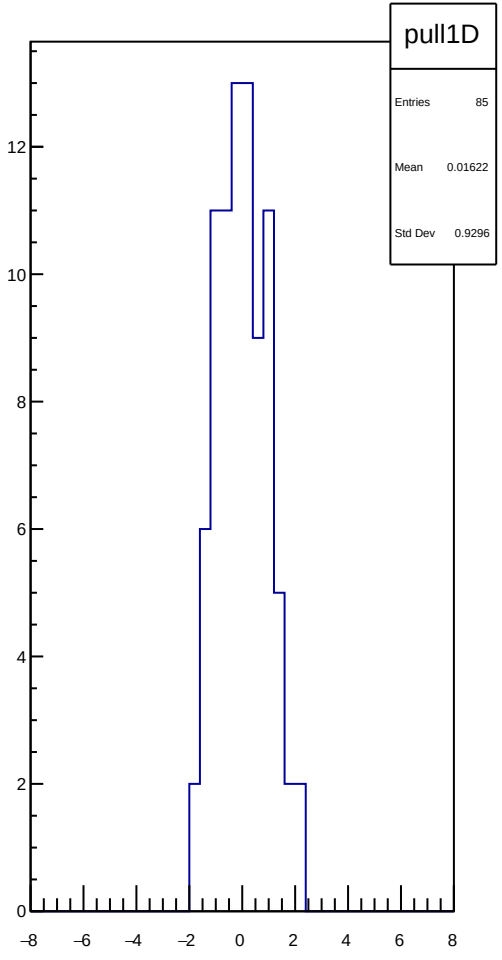

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.455e+04 / 84
p0 45.37 ± 0.03654
110
100
90
80
70
60
50
40
30

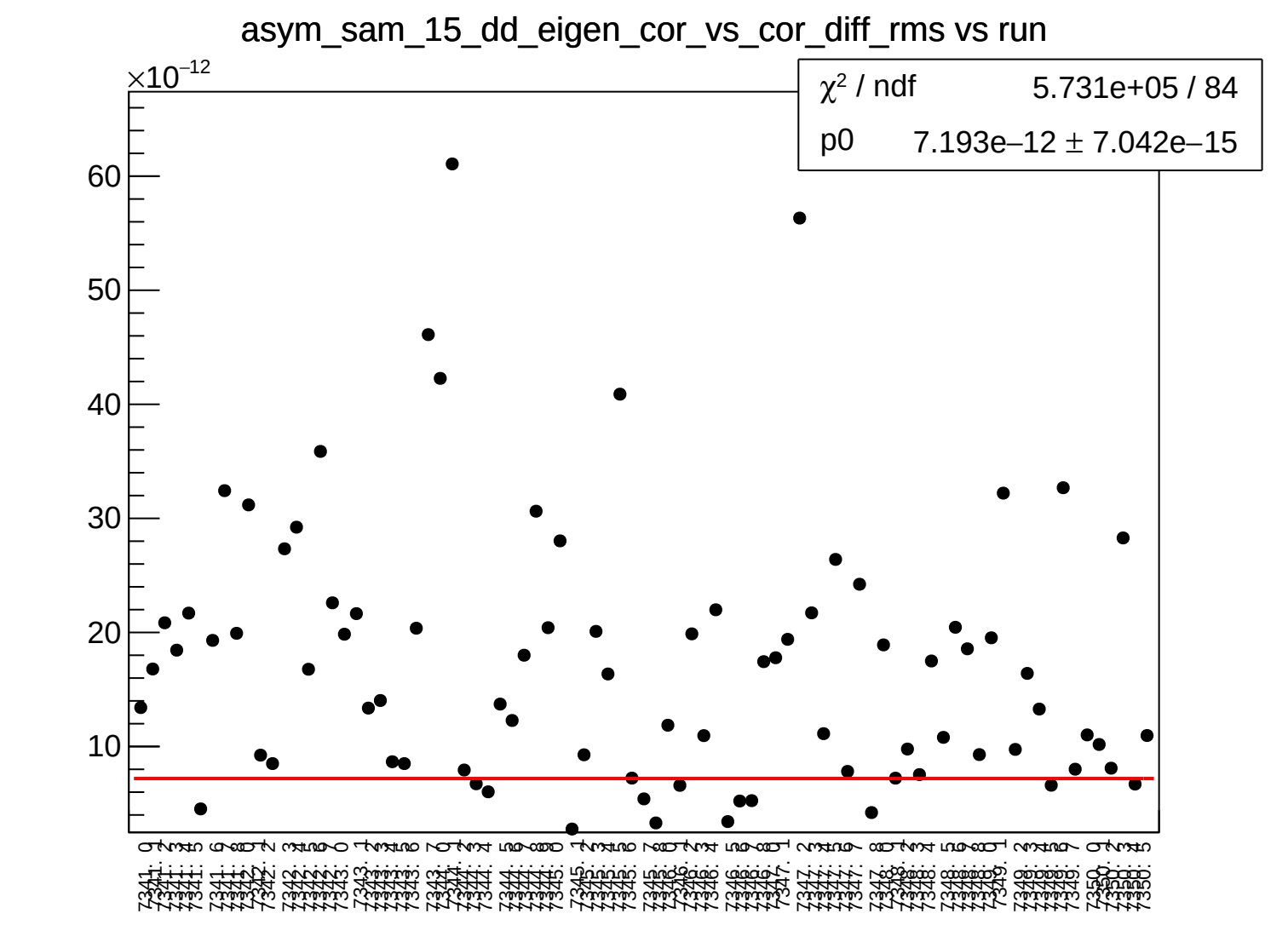

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.34 / 84
p0 0.07346 ± 0.05167
pull
Entries 85
Mean 63.68
Std Dev 0

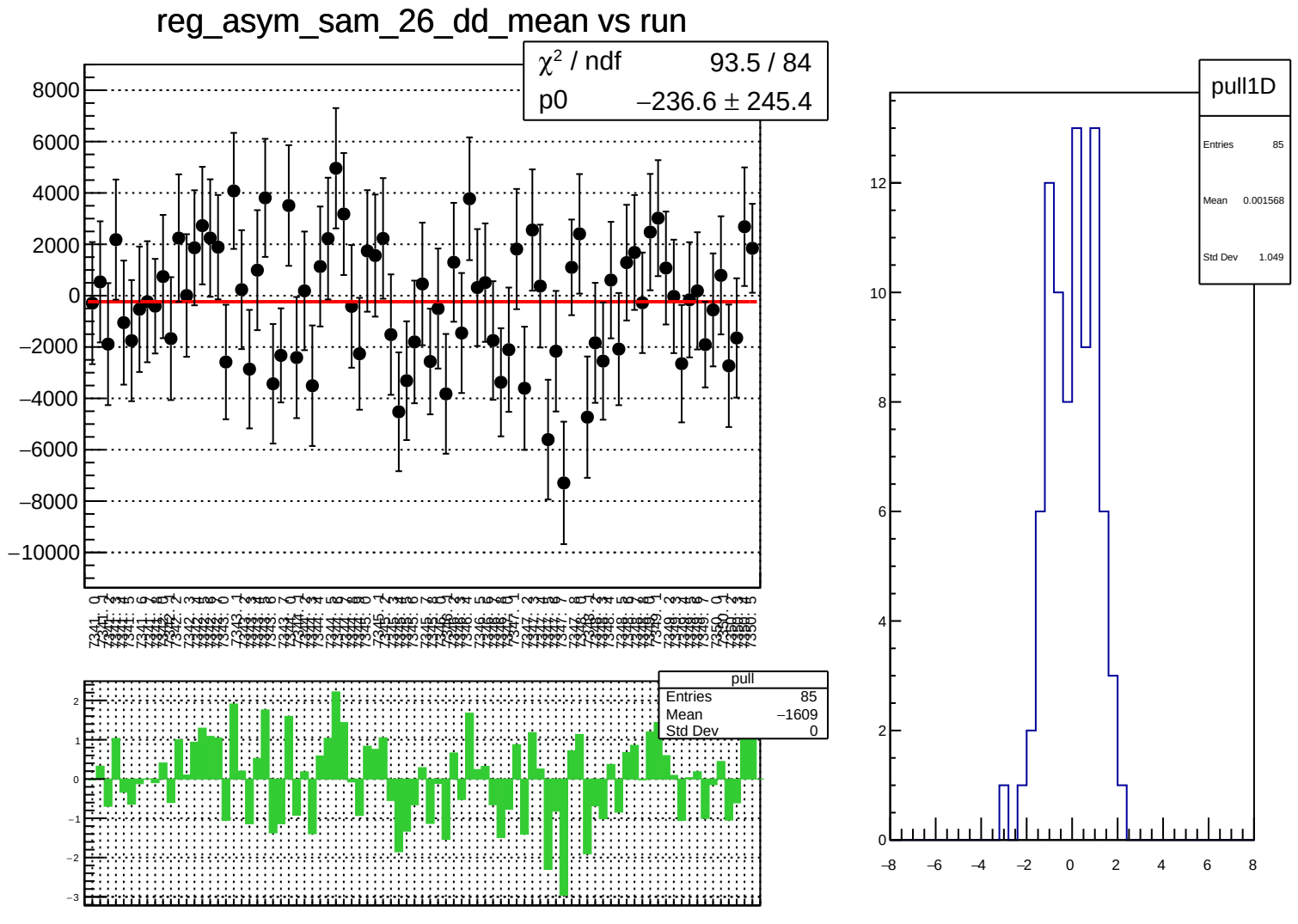

pull1D
Entries 85
Mean 0.01874
Std Dev 0.916

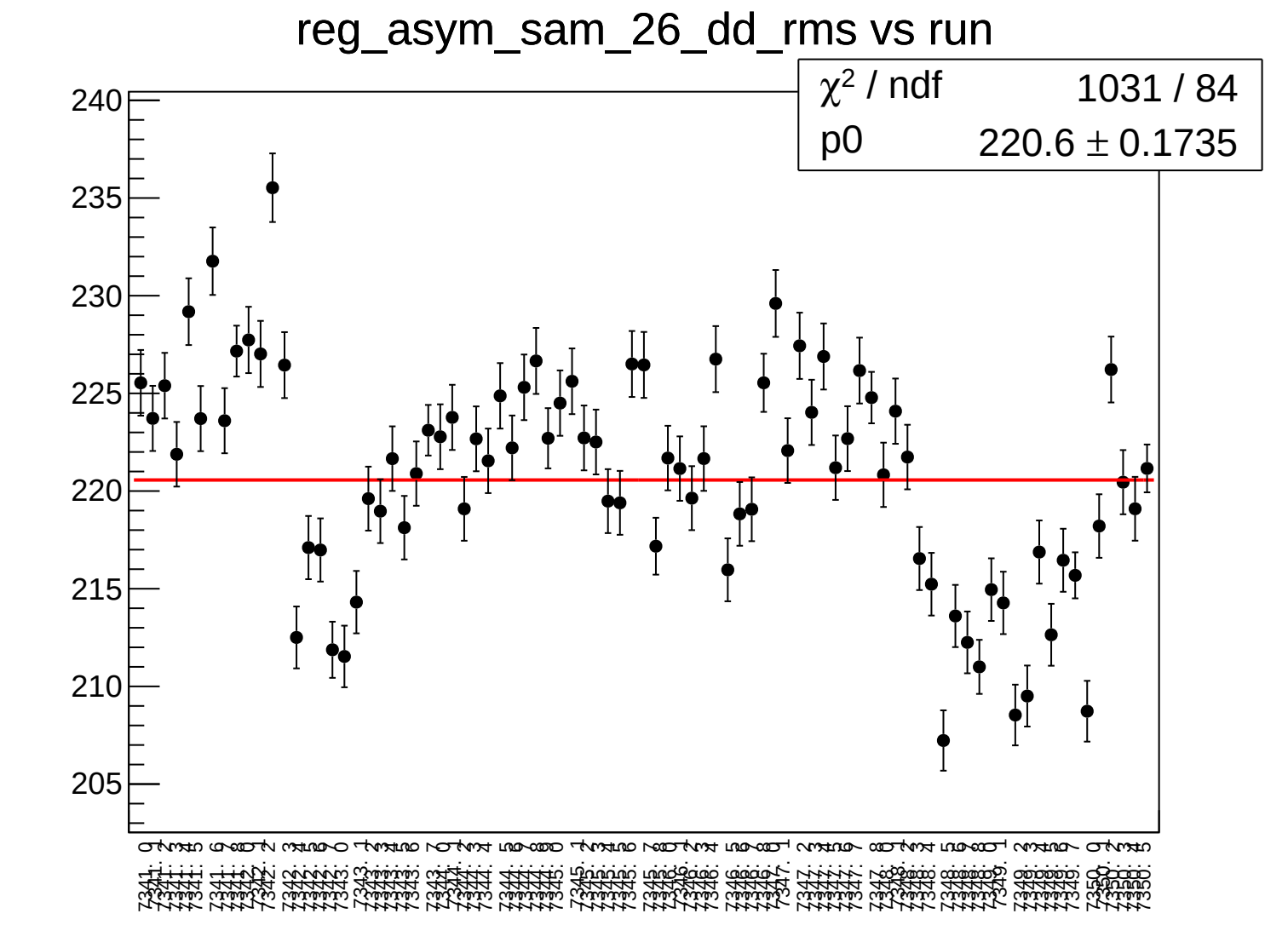

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.455e+04 / 84
p0 45.37 ± 0.03654
110
100
90
80
70
60
50
40
30

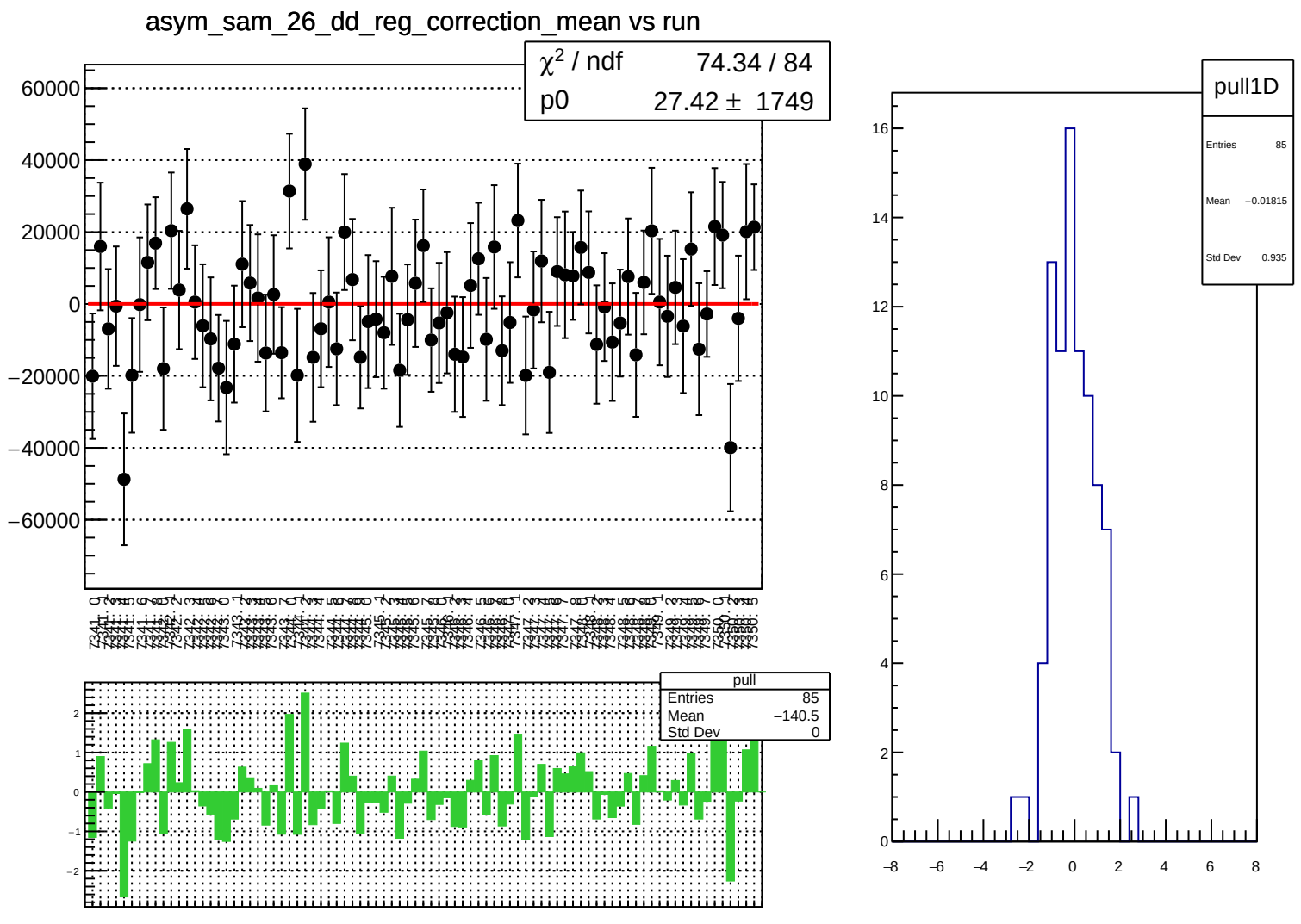

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.48 / 84
p0 2.197e−14 ± 9.959e−15
pull
Entries 85
Mean 30.35
Std Dev 61.16

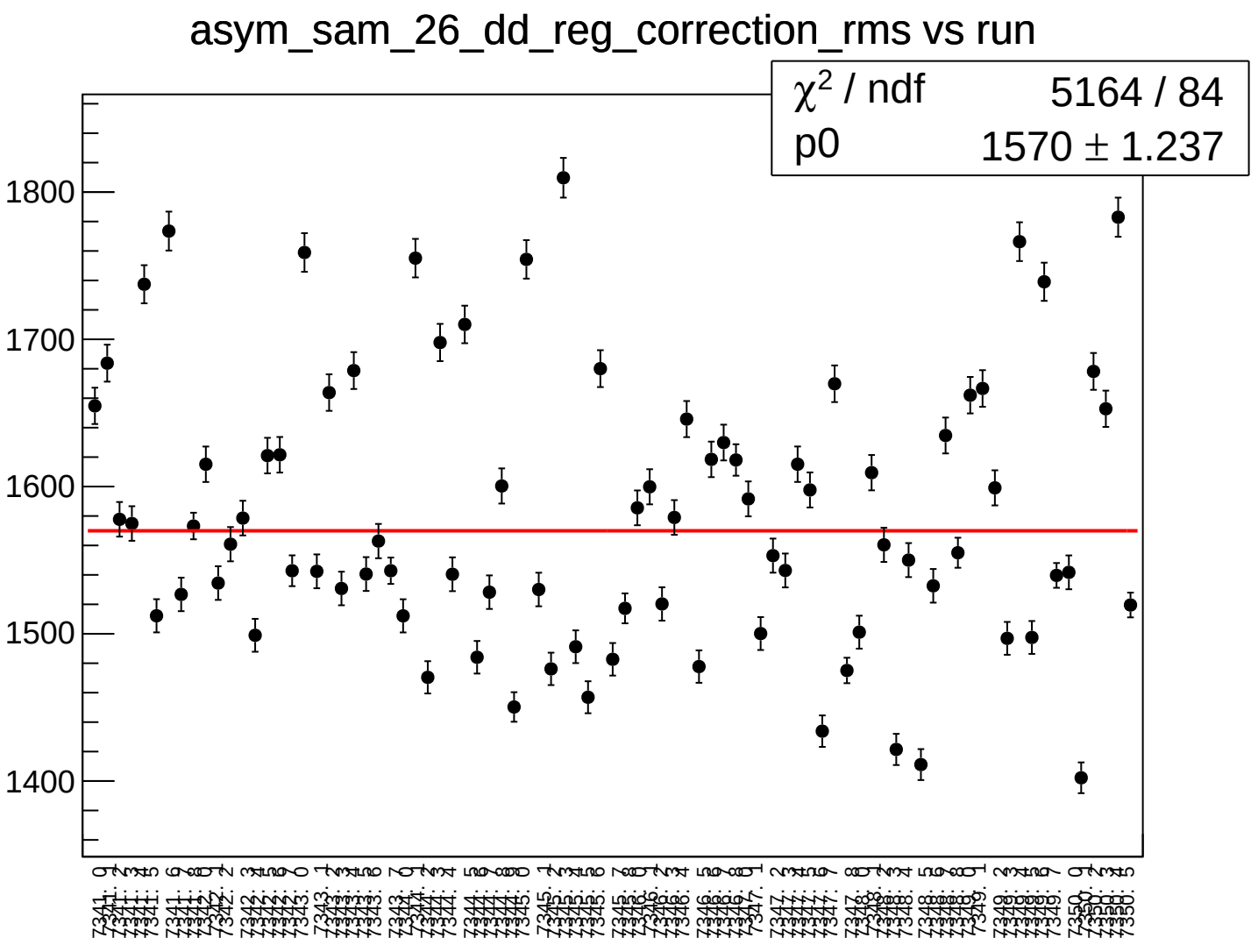

pull1D
Entries 85
Mean 0.01622
Std Dev 0.9296

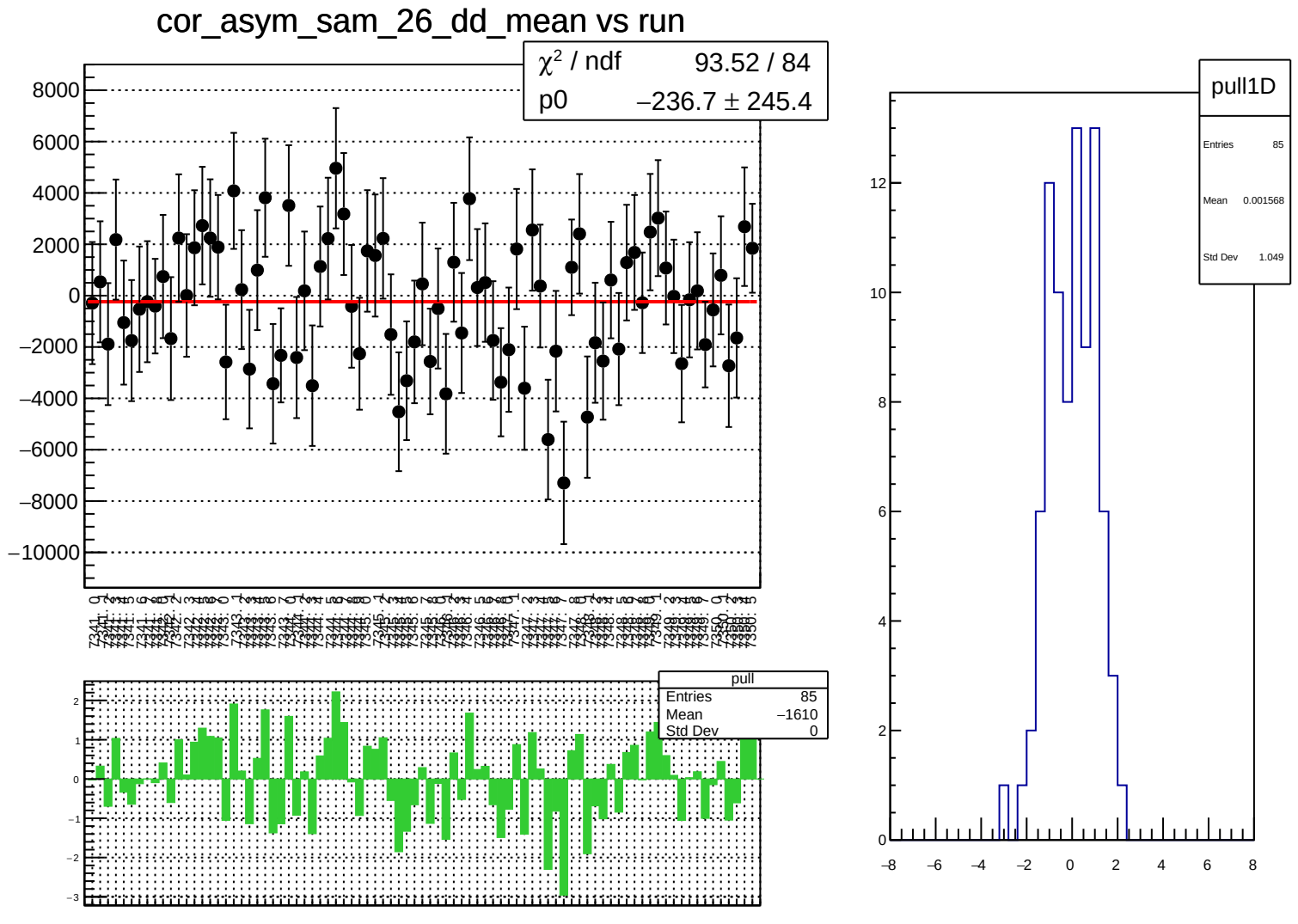

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.731e+05 / 84
p0 7.193e−12 ± 7.042e−15
60
50
40
30
20
10

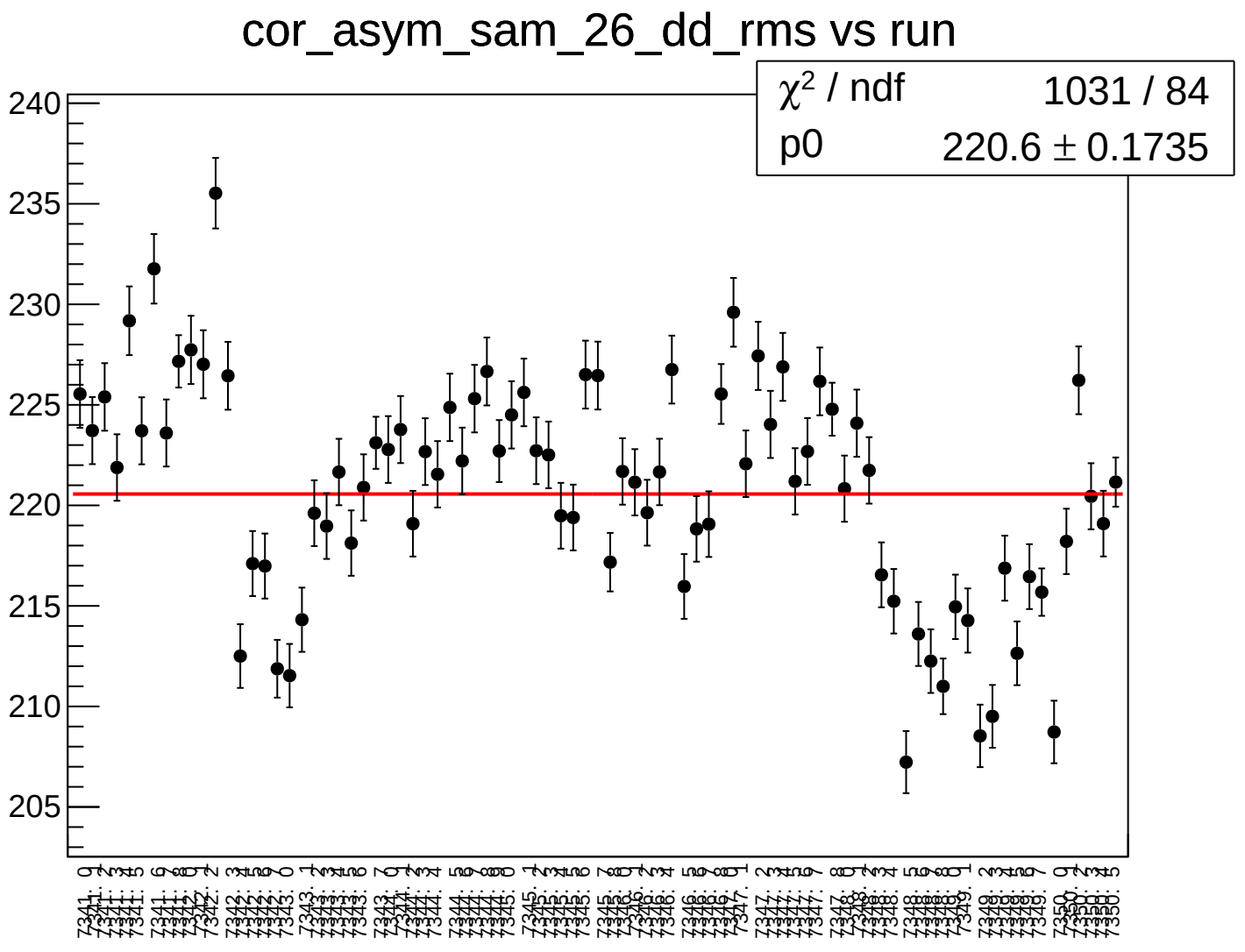

reg_asym_sam_26_dd_mean vs run
χ² / ndf 93.5 / 84
p0 −236.6 ± 245.4
pull
Entries 85
Mean −1609
Std Dev 0
pull1D
Entries 85
Mean 0.001568
Std Dev 1.049

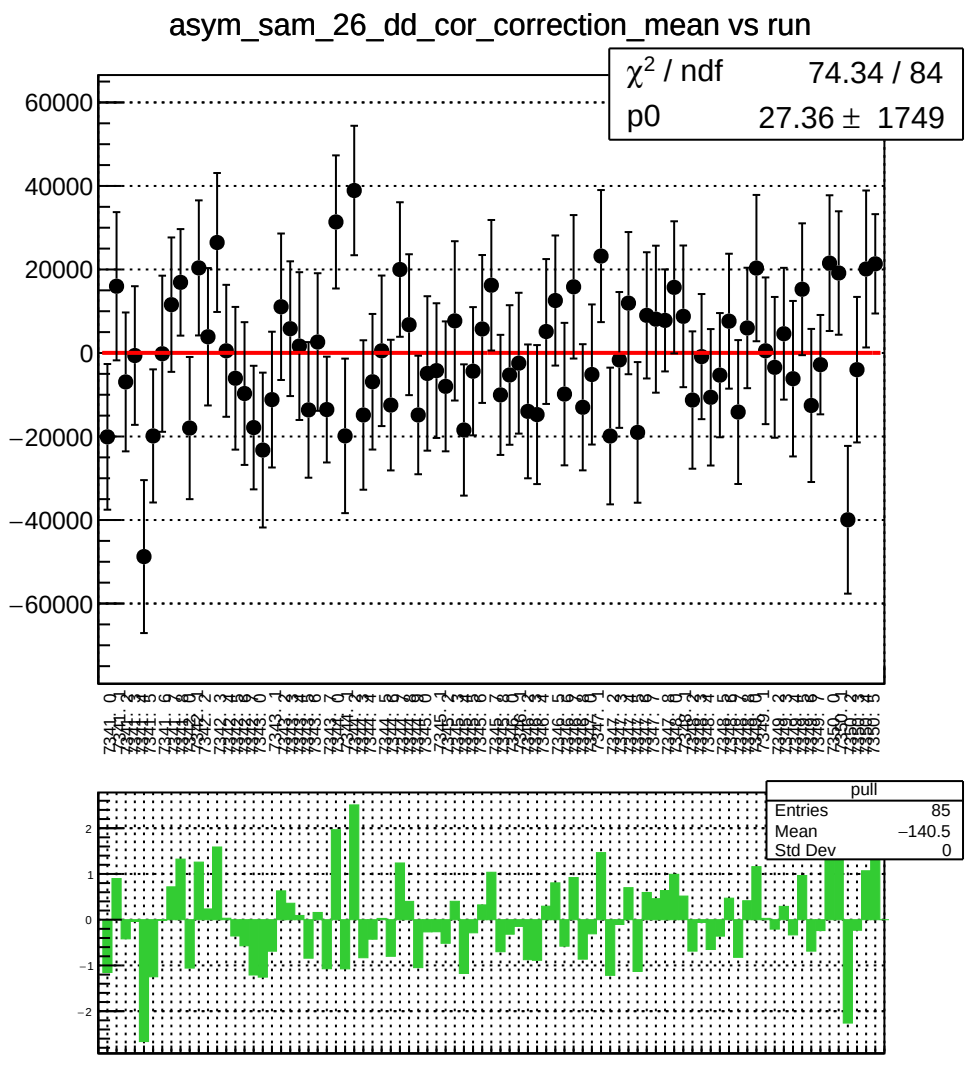

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1031 / 84
p0 220.6 ± 0.1735
240
235
230
225
220
215
210
205

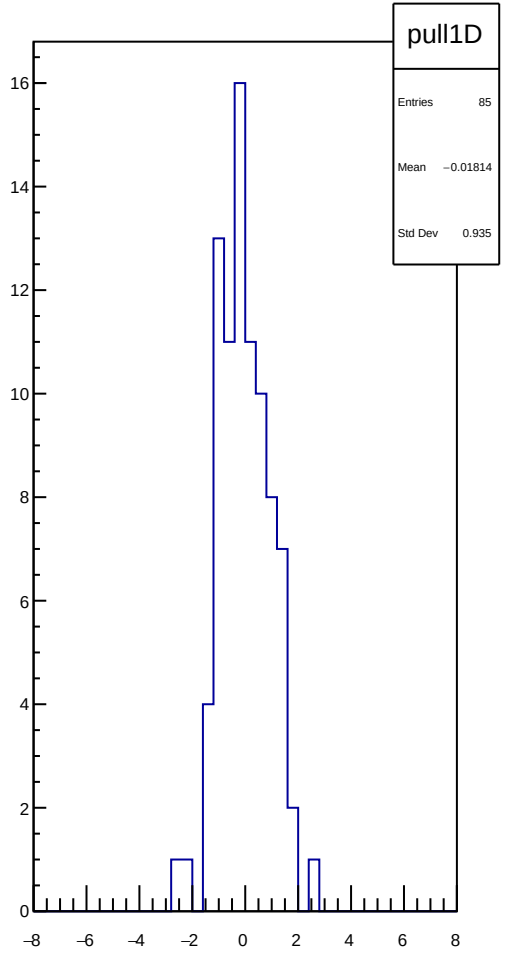

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 74.34 / 84
p0 27.42 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −140.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01815
Std Dev 0.935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

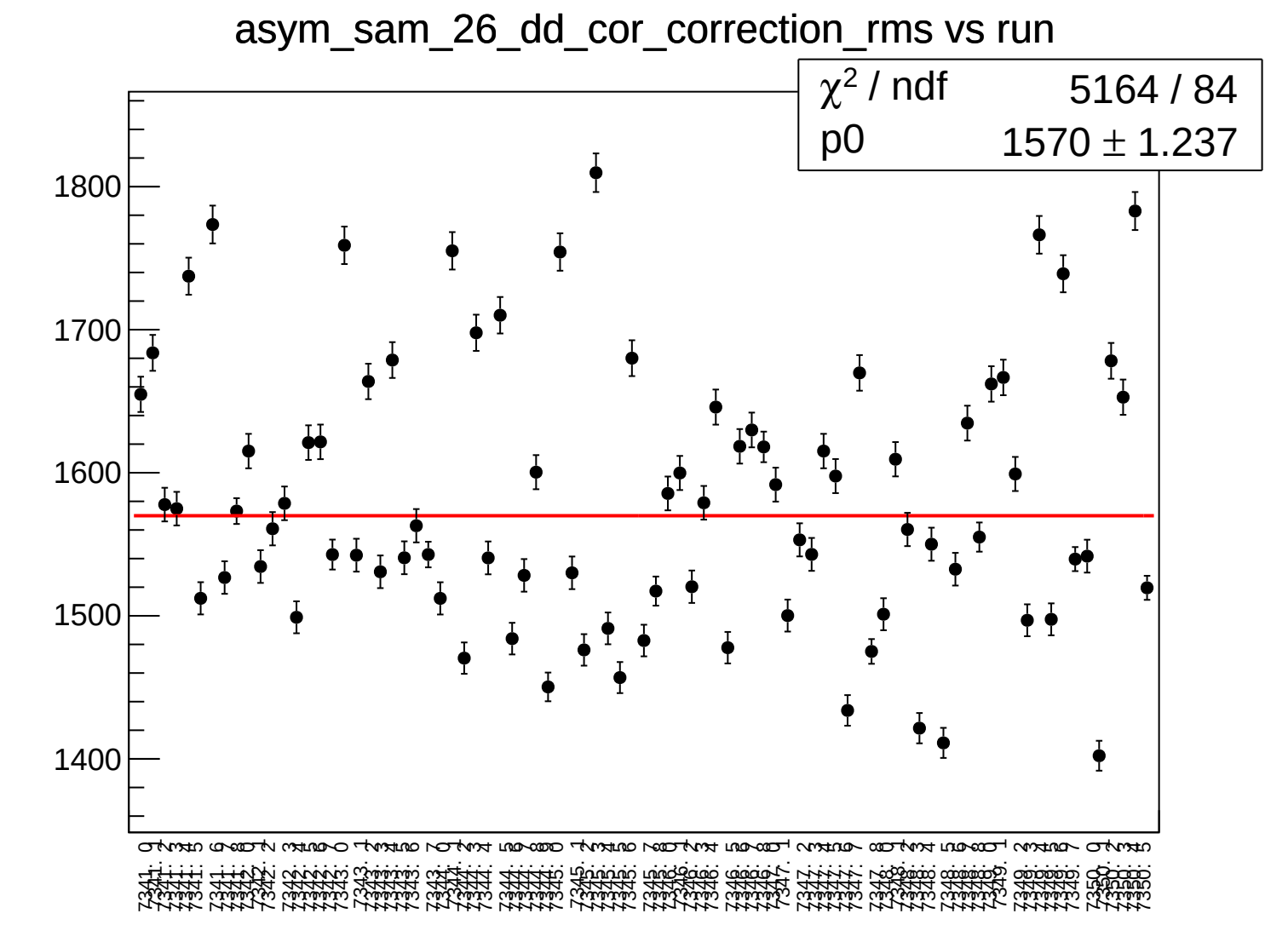

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 5164 / 84
p0 1570 ± 1.237
1800
1700
1600
1500
1400

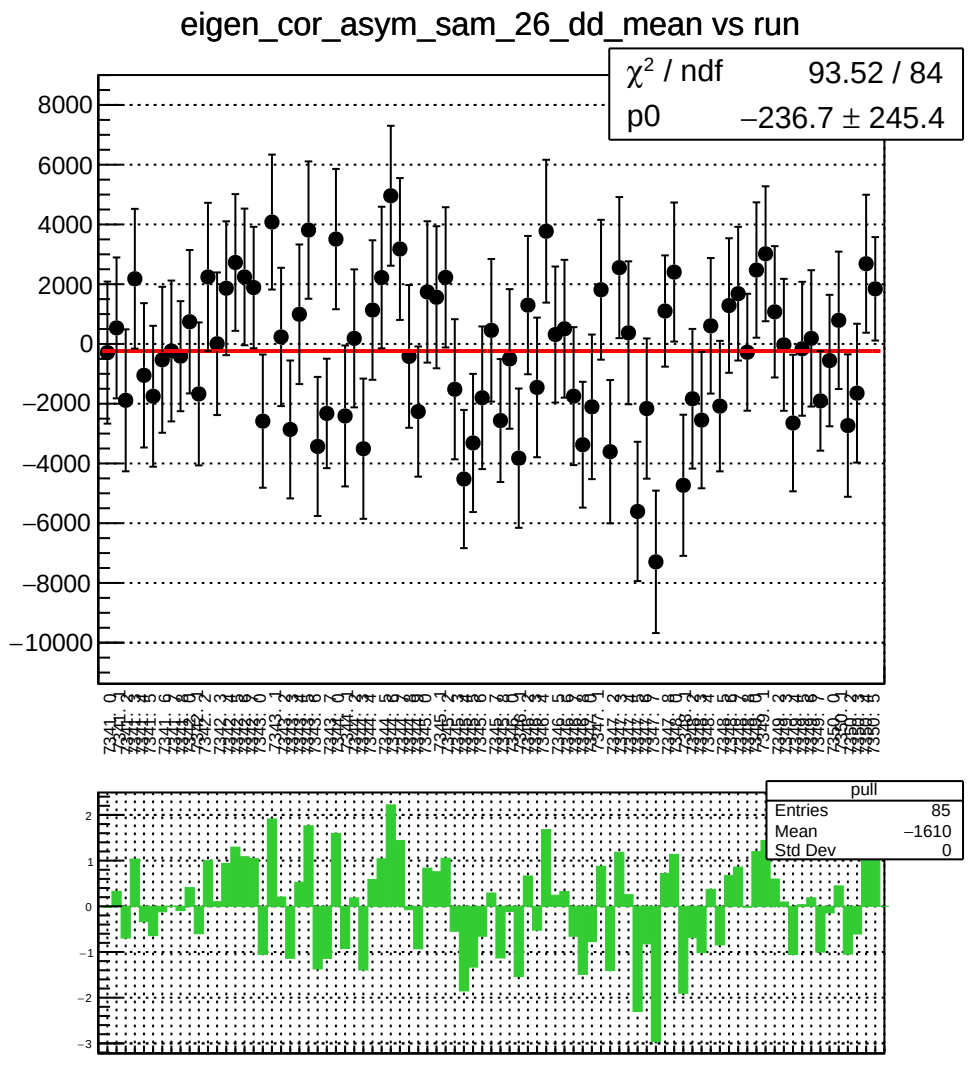

cor_asym_sam_26_dd_mean vs run
χ² / ndf 93.52 / 84
p0 −236.7 ± 245.4
pull
Entries 85
Mean −1610
Std Dev 0
pull1D
Entries 85
Mean 0.001568
Std Dev 1.049

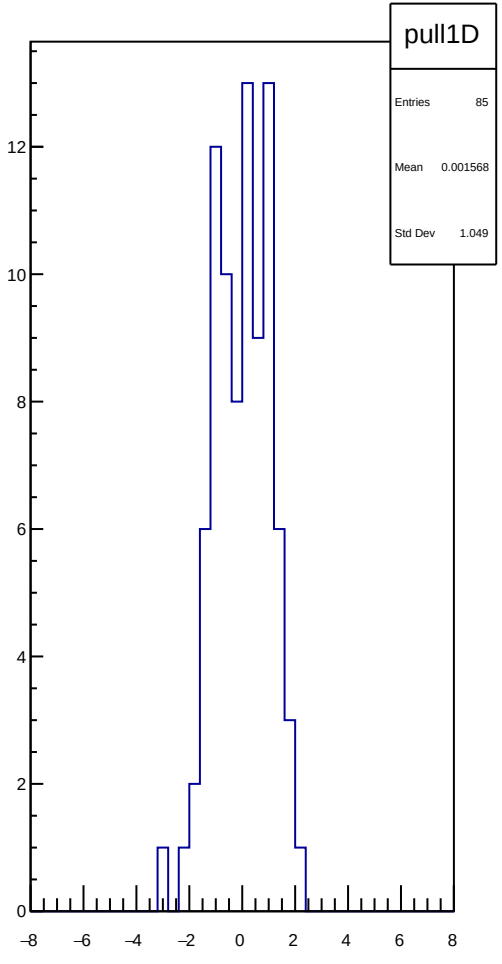

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1031 / 84
p0 220.6 ± 0.1735
240
235
230
225
220
215
210
205


asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 74.34 / 84
p0 27.36 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 85
Mean −140.5
Std Dev 0
2
1
0
−1
−2

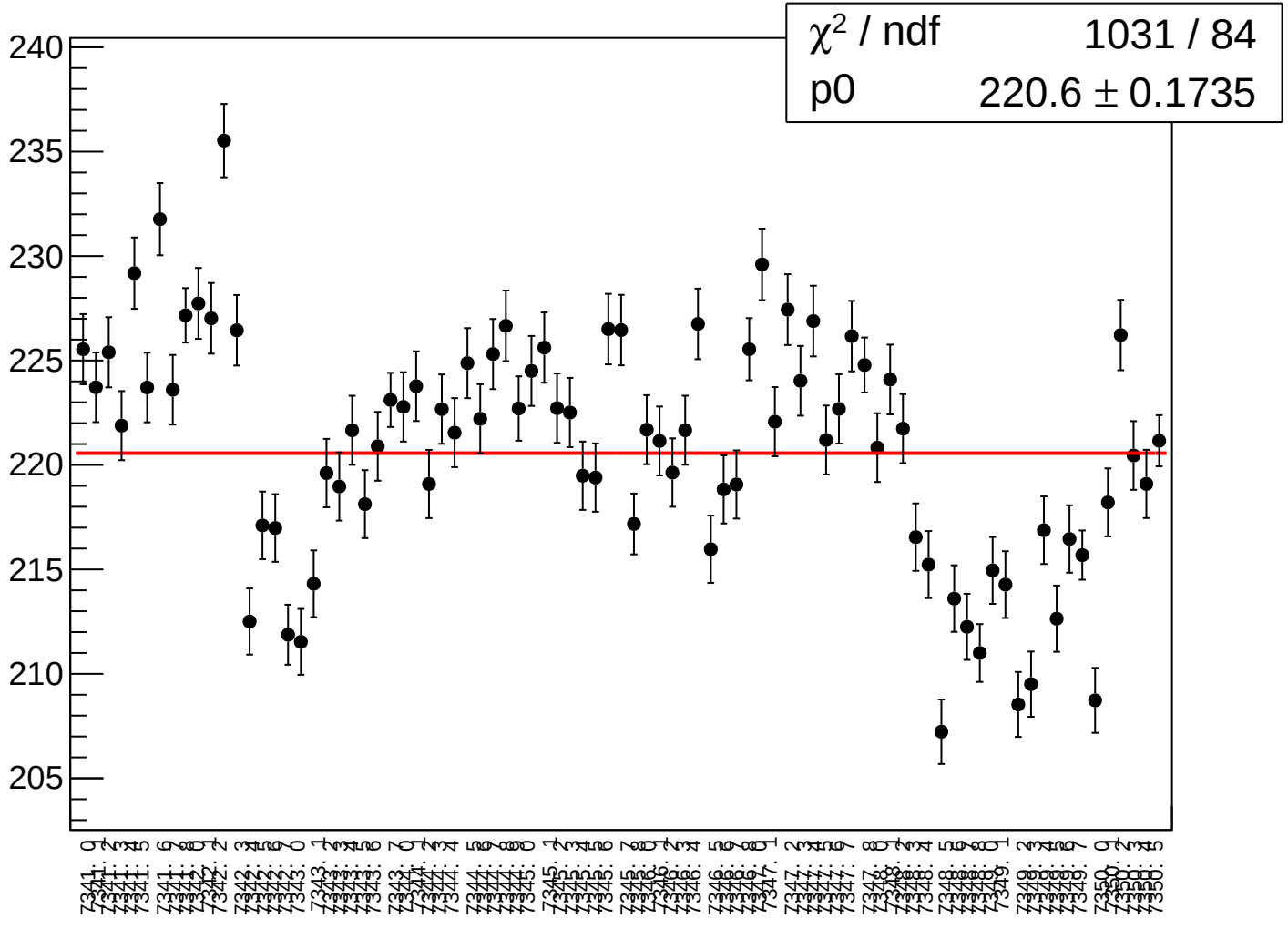

pull1D
Entries 85
Mean −0.01814
Std Dev 0.935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

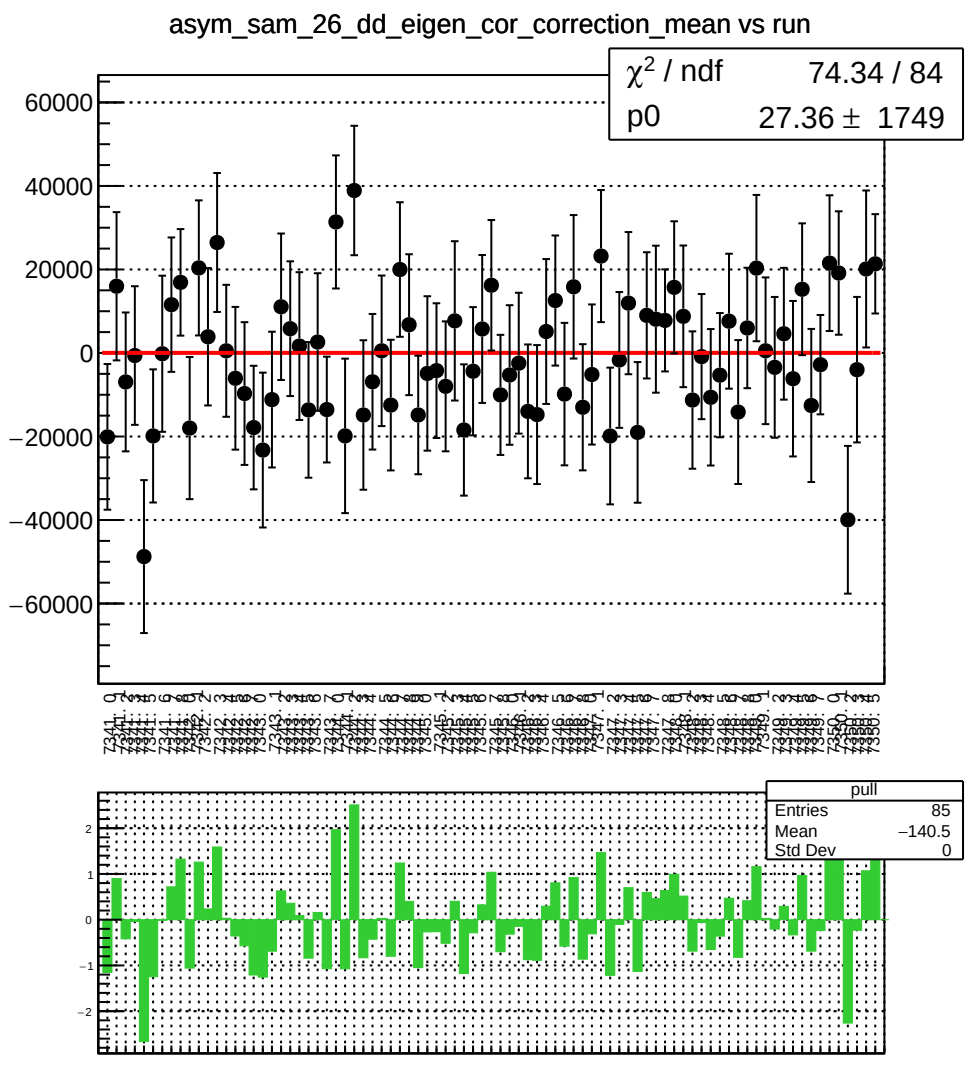

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 5164 / 84
p0 1570 ± 1.237
1800
1700
1600
1500
1400

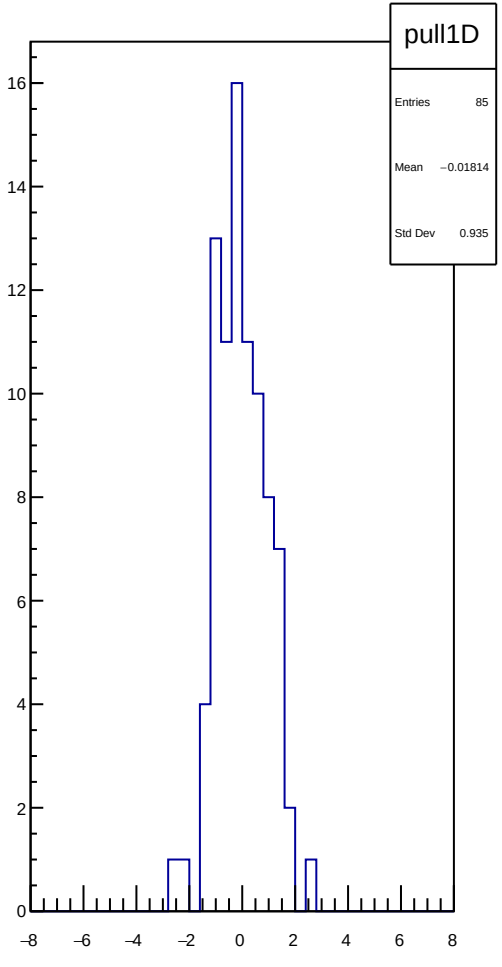

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 93.52 / 84
p0 −236.7 ± 245.4
pull
Entries 85
Mean −1610
Std Dev 0

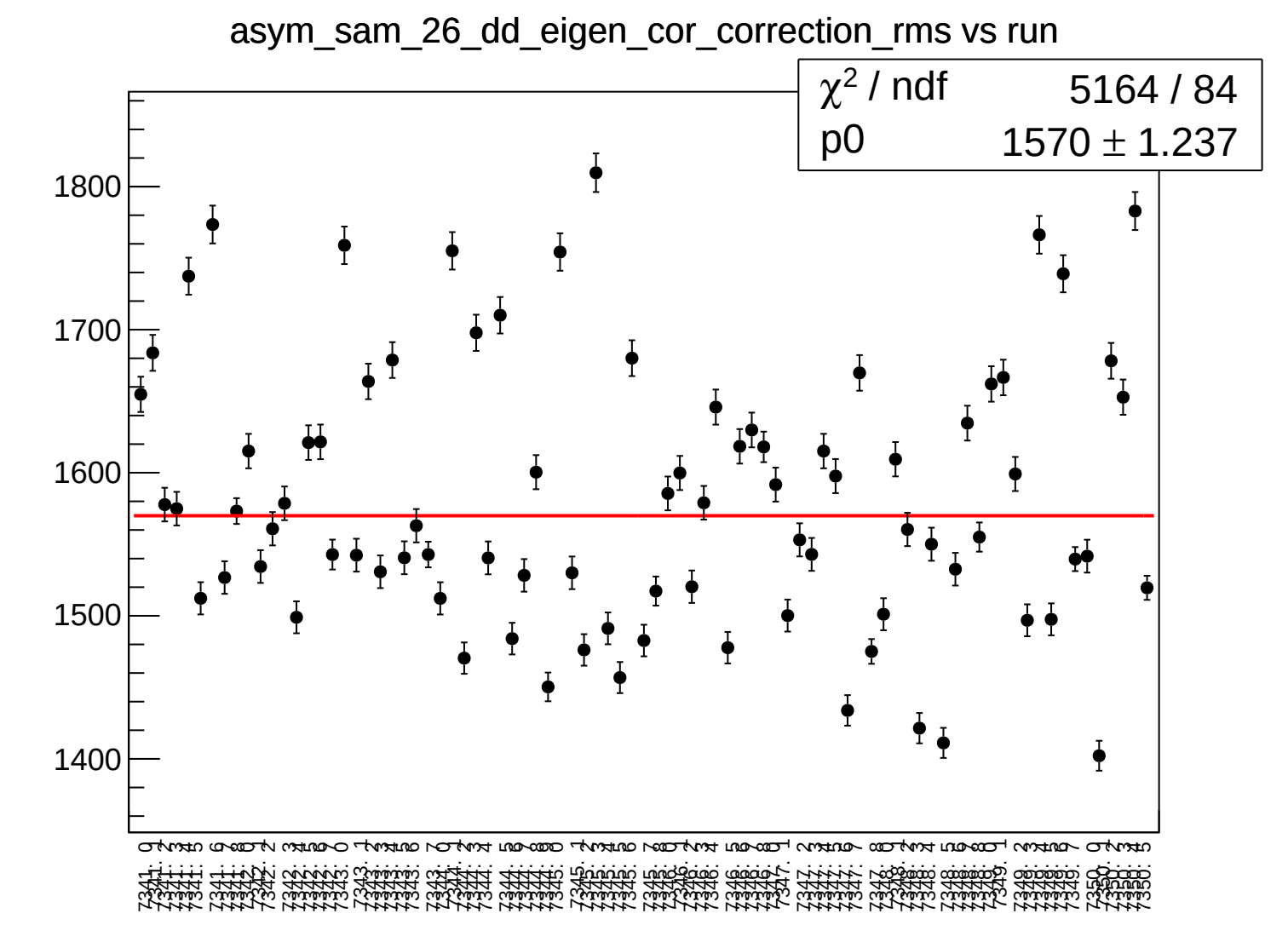

pull1D
Entries 85
Mean 0.001568
Std Dev 1.049

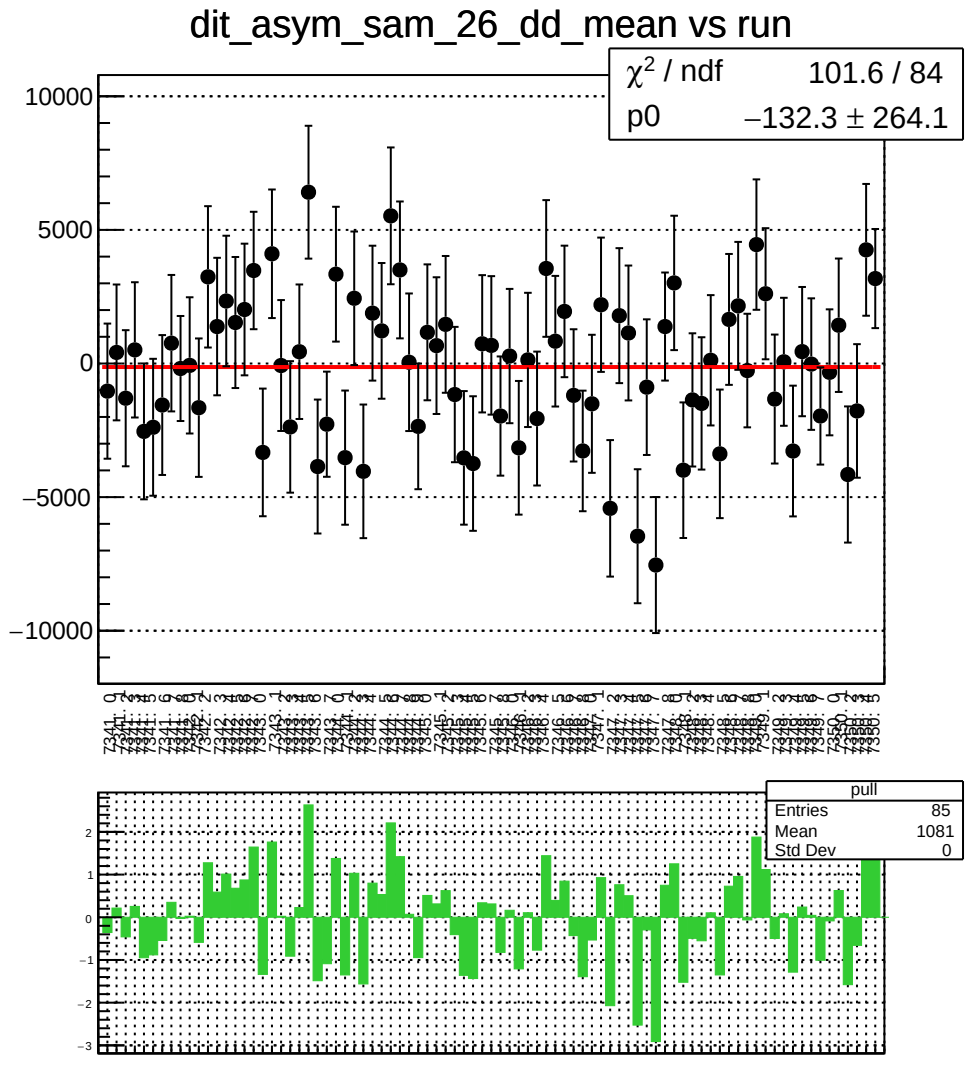
eigen_cor_asym_sam_26_dd_rms vs run

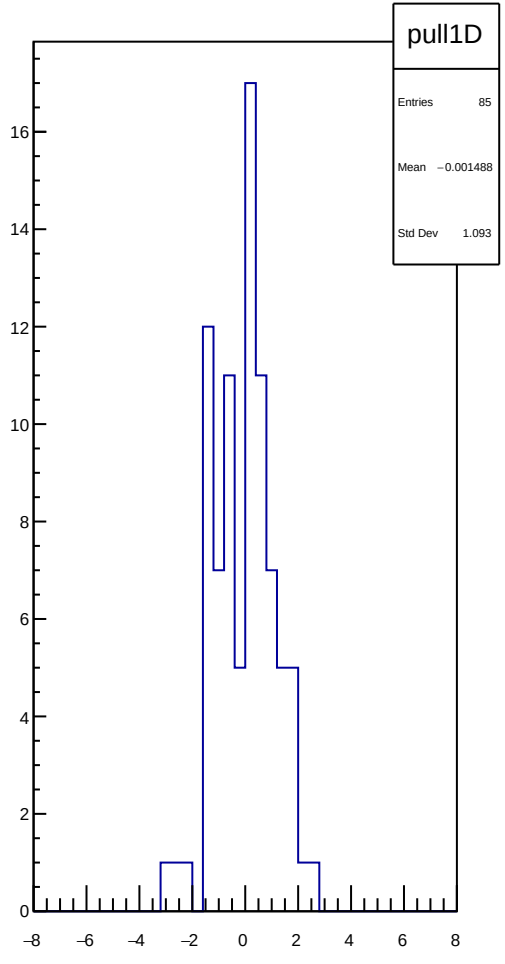


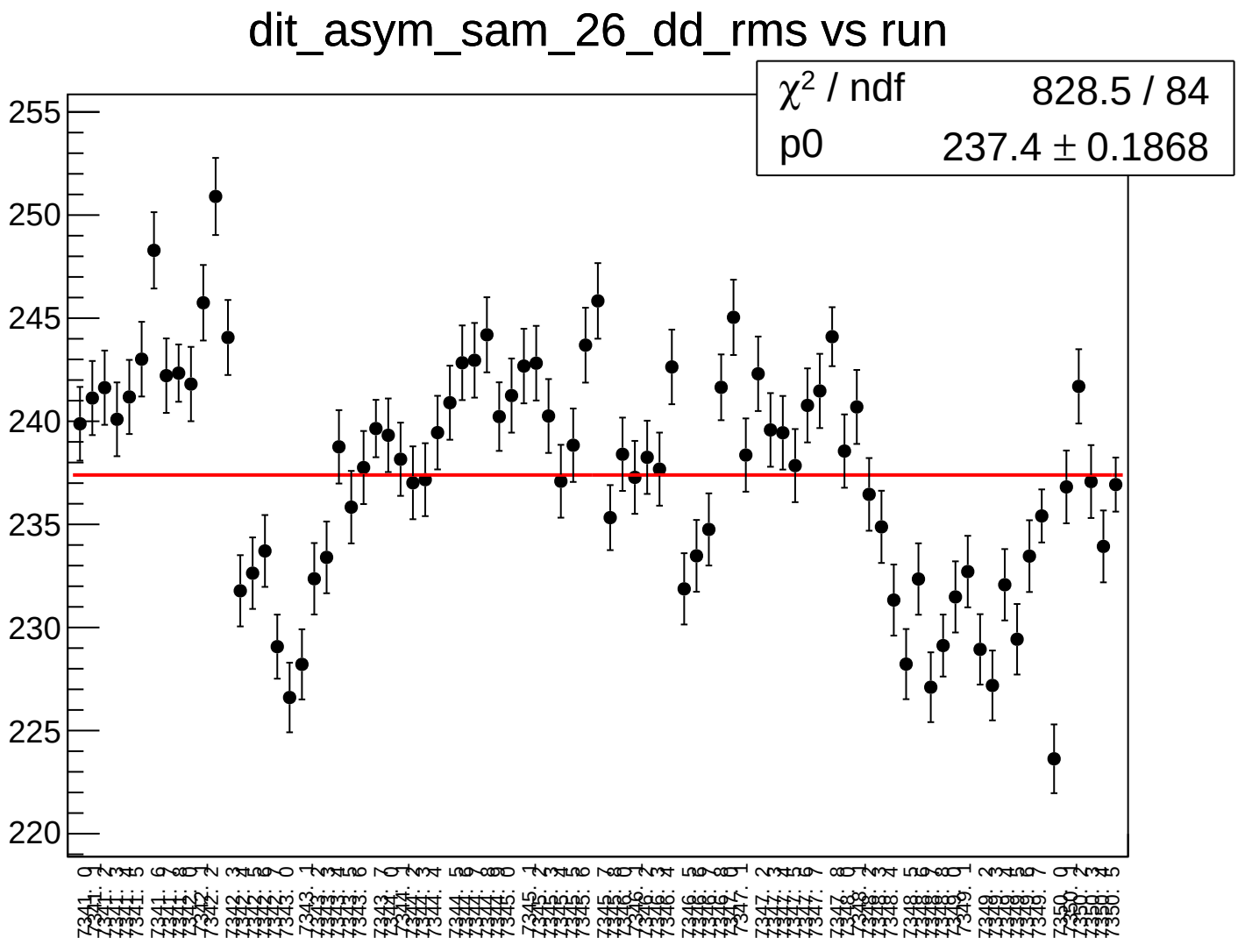

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.34 / 84
p0 27.36 ± 1749
pull
Entries 85
Mean −140.5
Std Dev 0

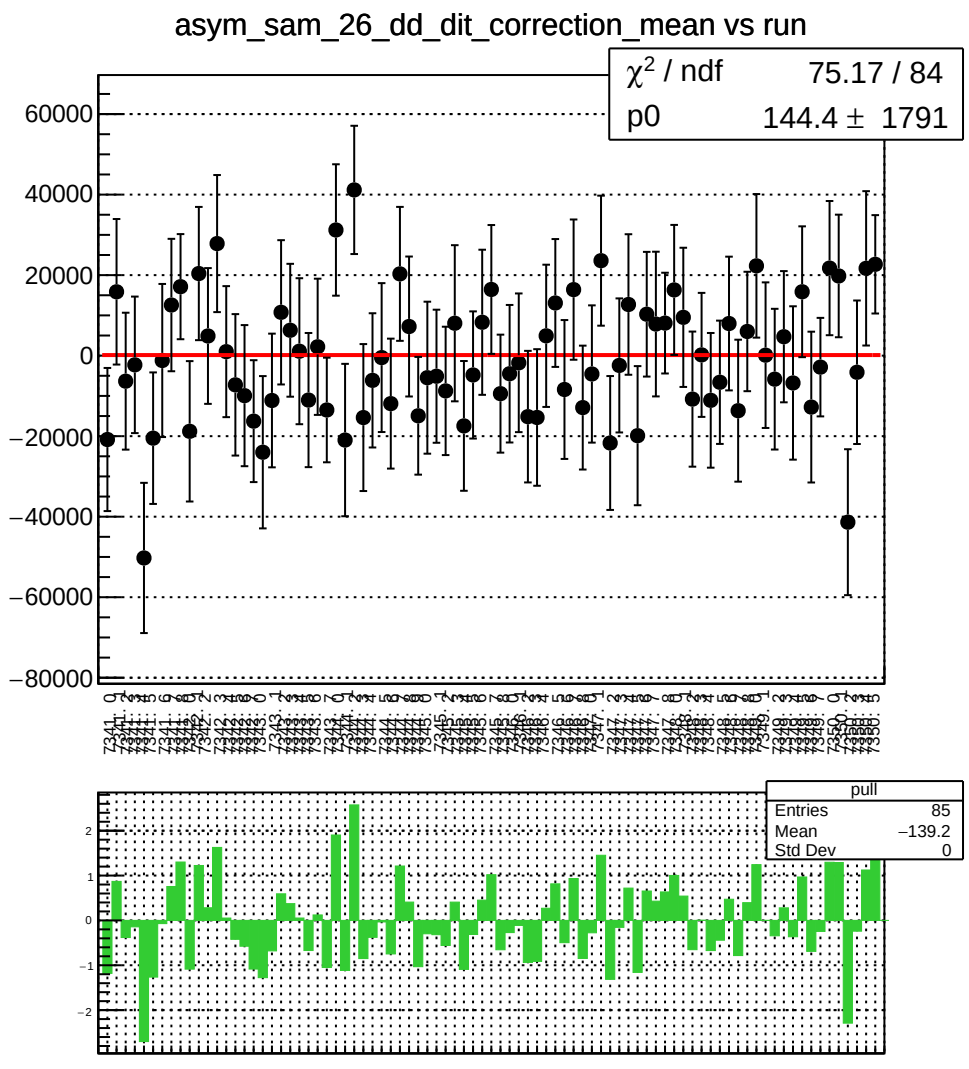

pull1D
Entries 85
Mean −0.01814
Std Dev 0.935

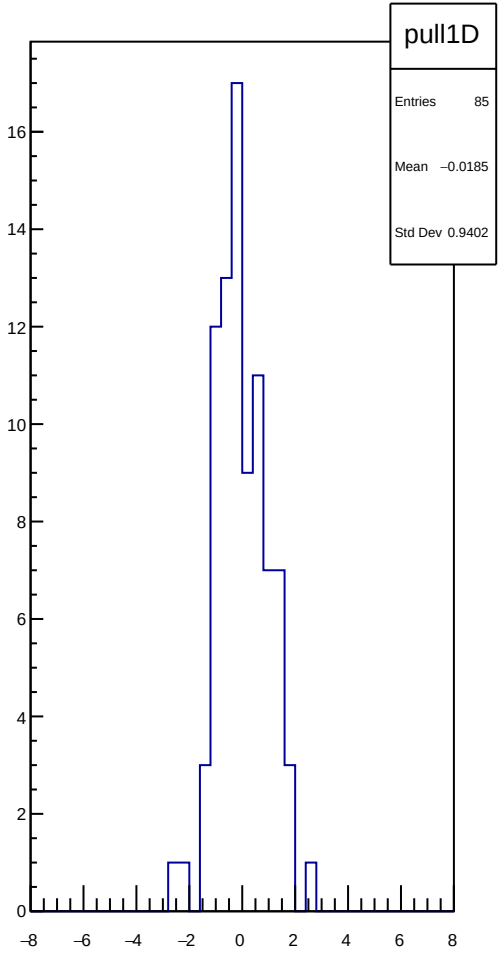

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5164 / 84
p0 1570 ± 1.237
1800
1700
1600
1500
1400

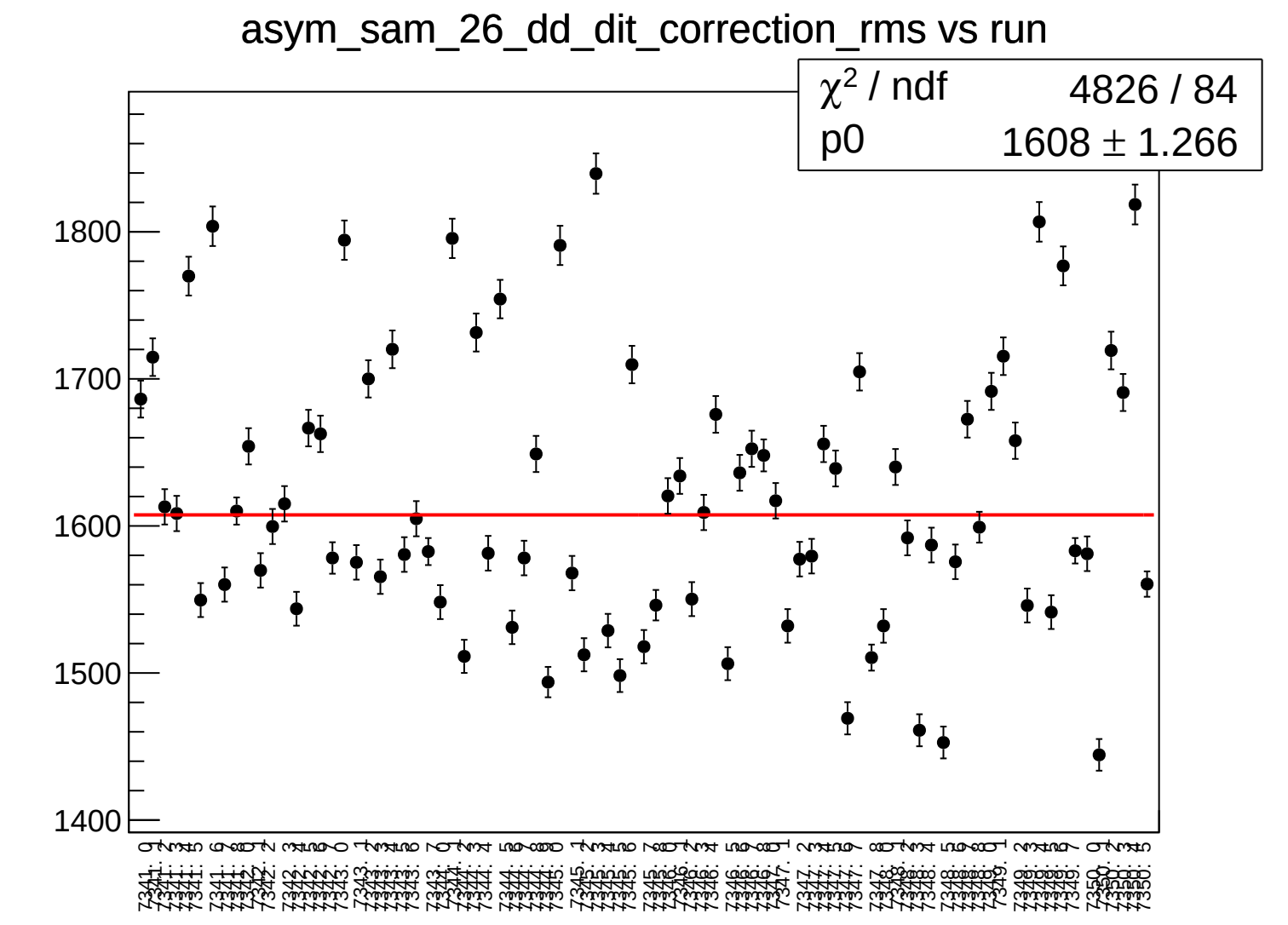

dit_asym_sam_26_dd_mean vs run
χ^2 / ndf 101.6 / 84
p0 −132.3 ± 264.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 1081
Std Dev 0
2
1
0
−1
−2
−3

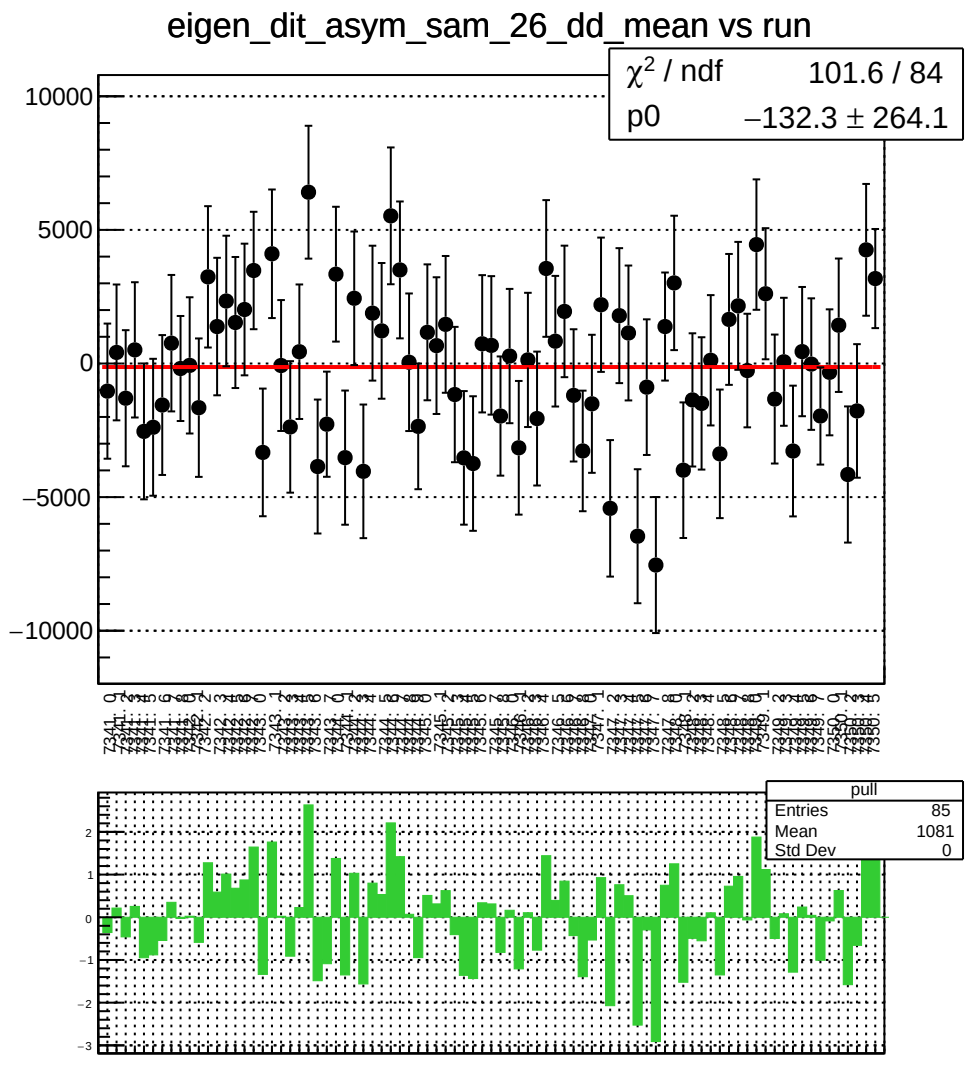

pull1D
Entries 85
Mean −0.001488
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

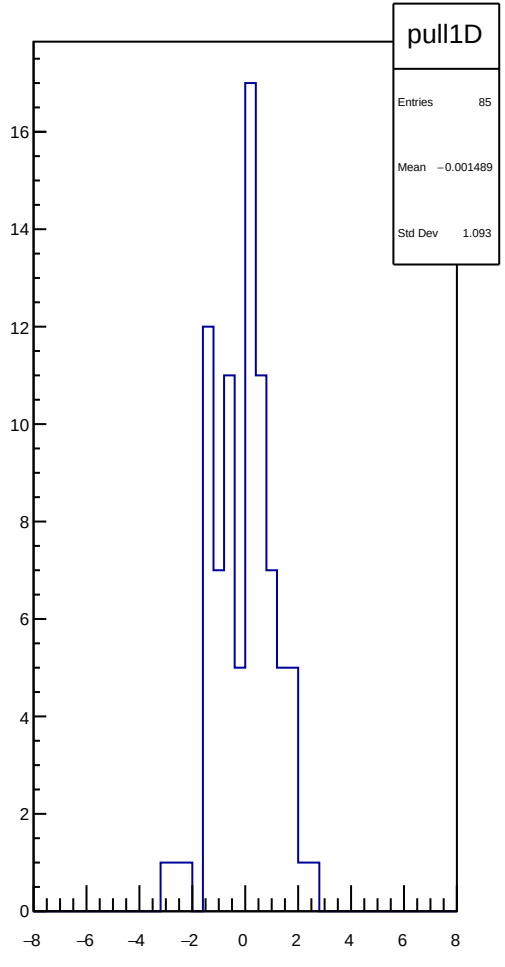

dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 828.5 / 84
p0 237.4 ± 0.1868
255
250
245
240
235
230
225
220

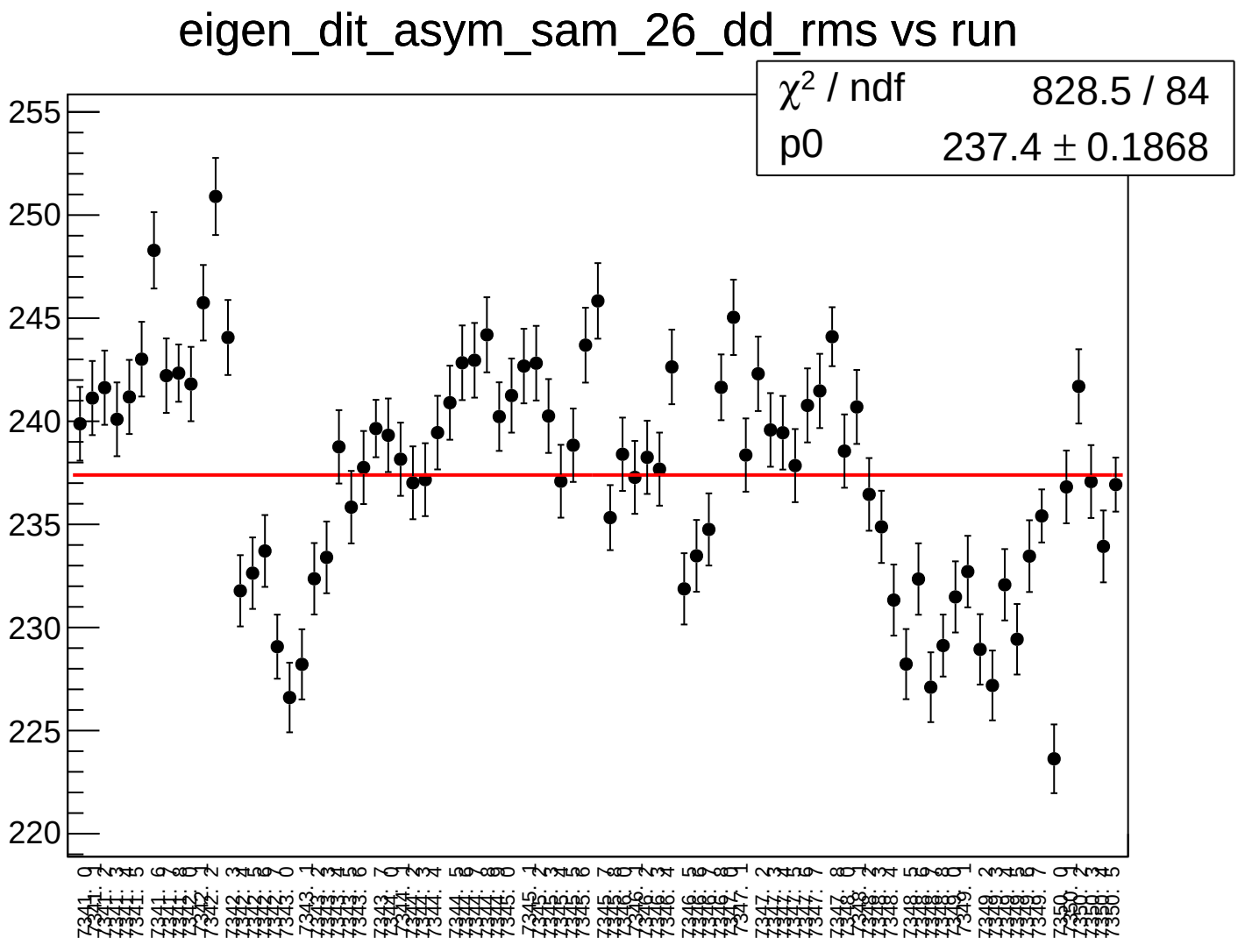

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 75.17 / 84
p0 144.4 ± 1791
pull
Entries 85
Mean −139.2
Std Dev 0

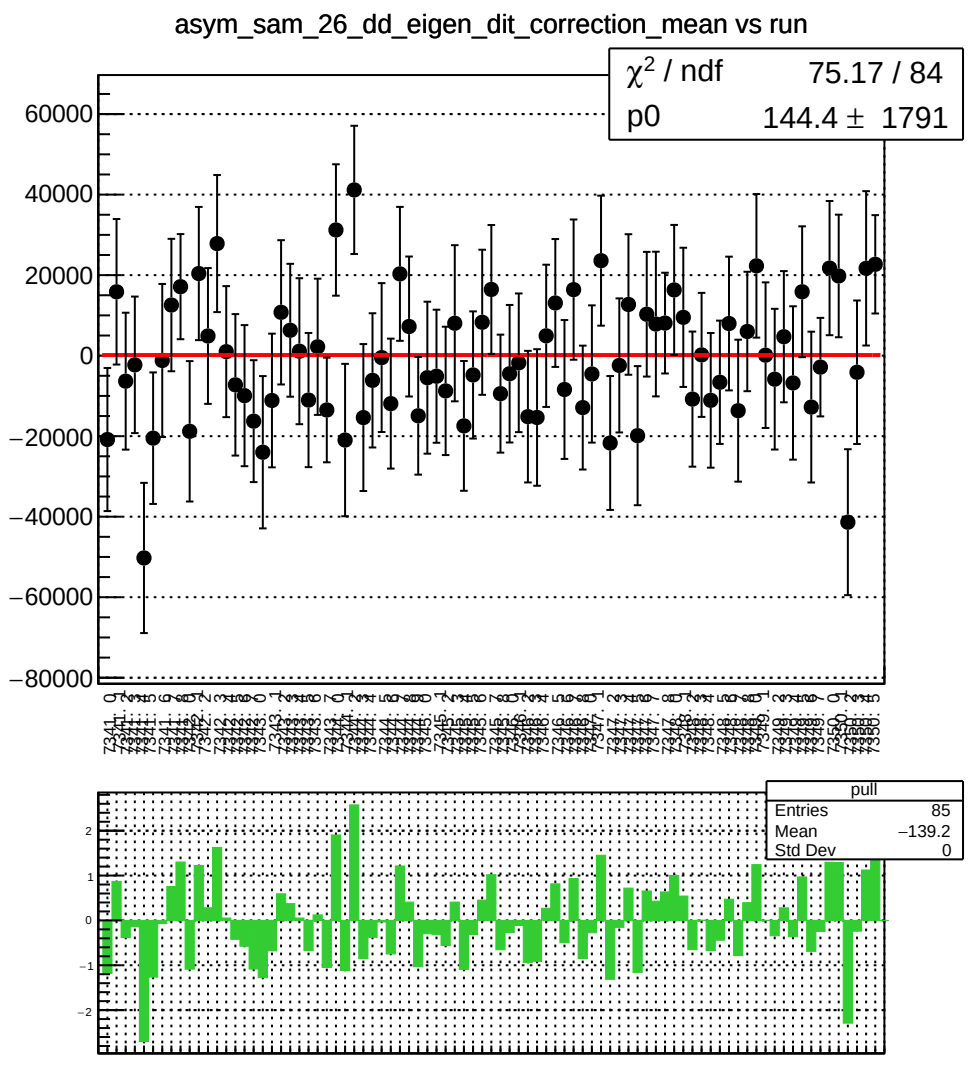

pull1D
Entries 85
Mean −0.0185
Std Dev 0.9402

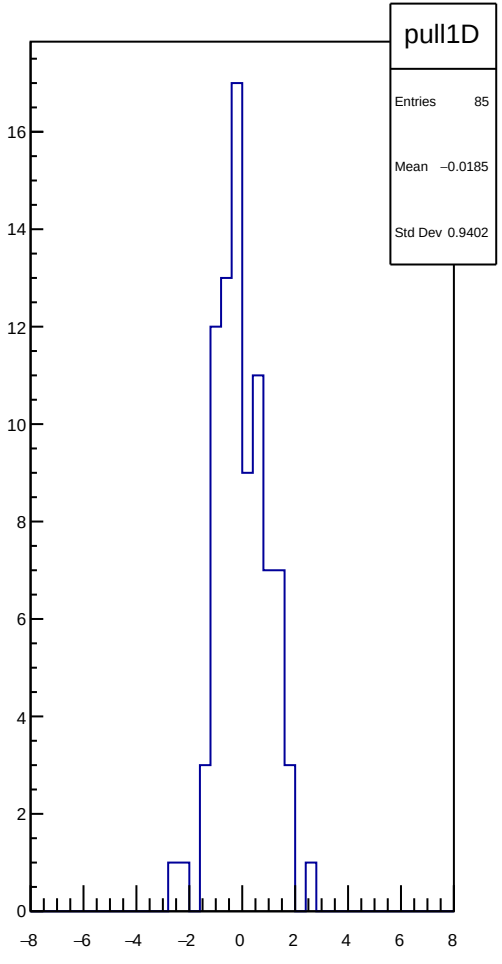

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 4826 / 84
p0 1608 ± 1.266
1800
1700
1600
1500
1400

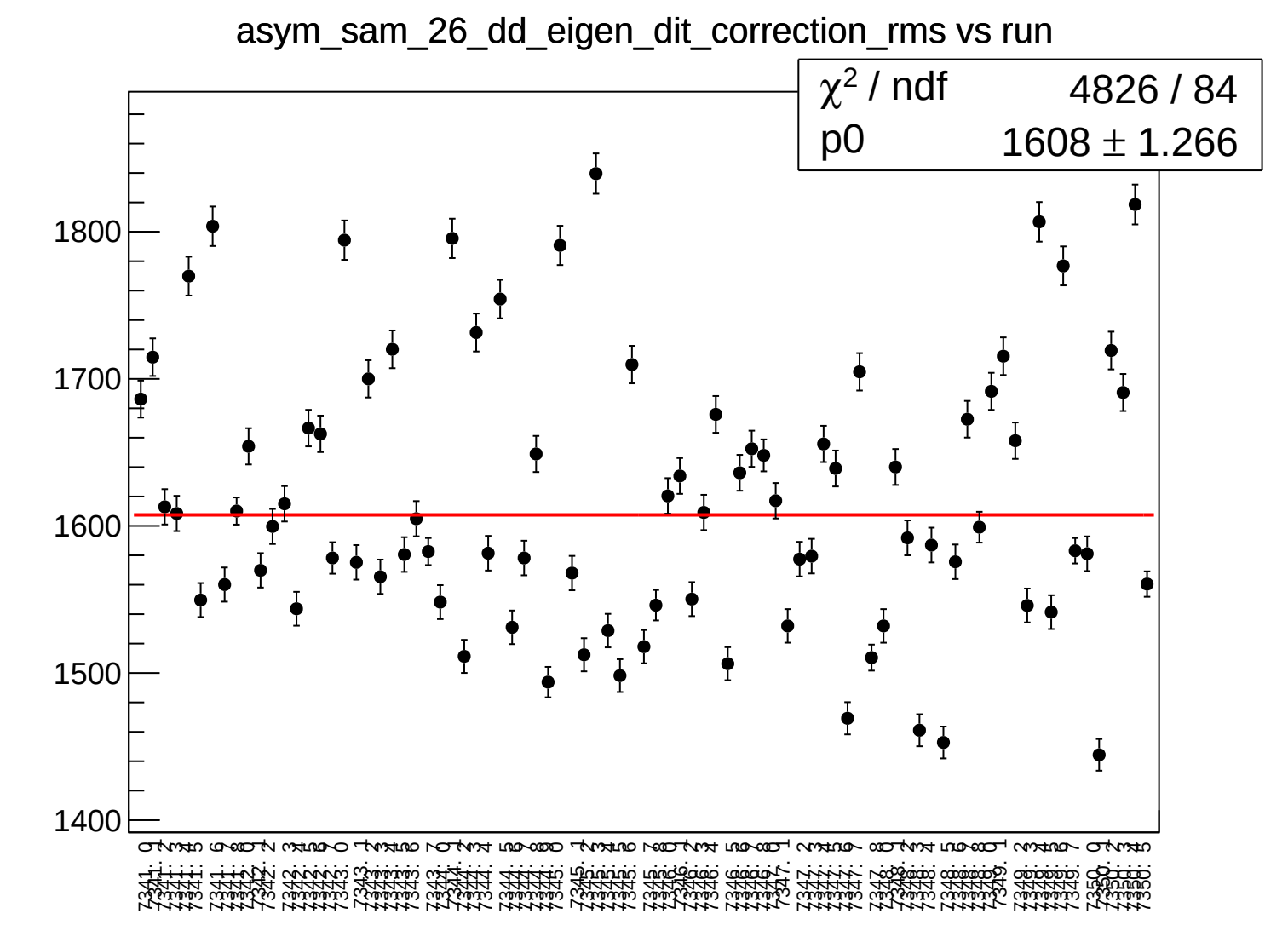

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 101.6 / 84
p0 −132.3 ± 264.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 1081
Std Dev 0
2
1
0
−1
−2
−3

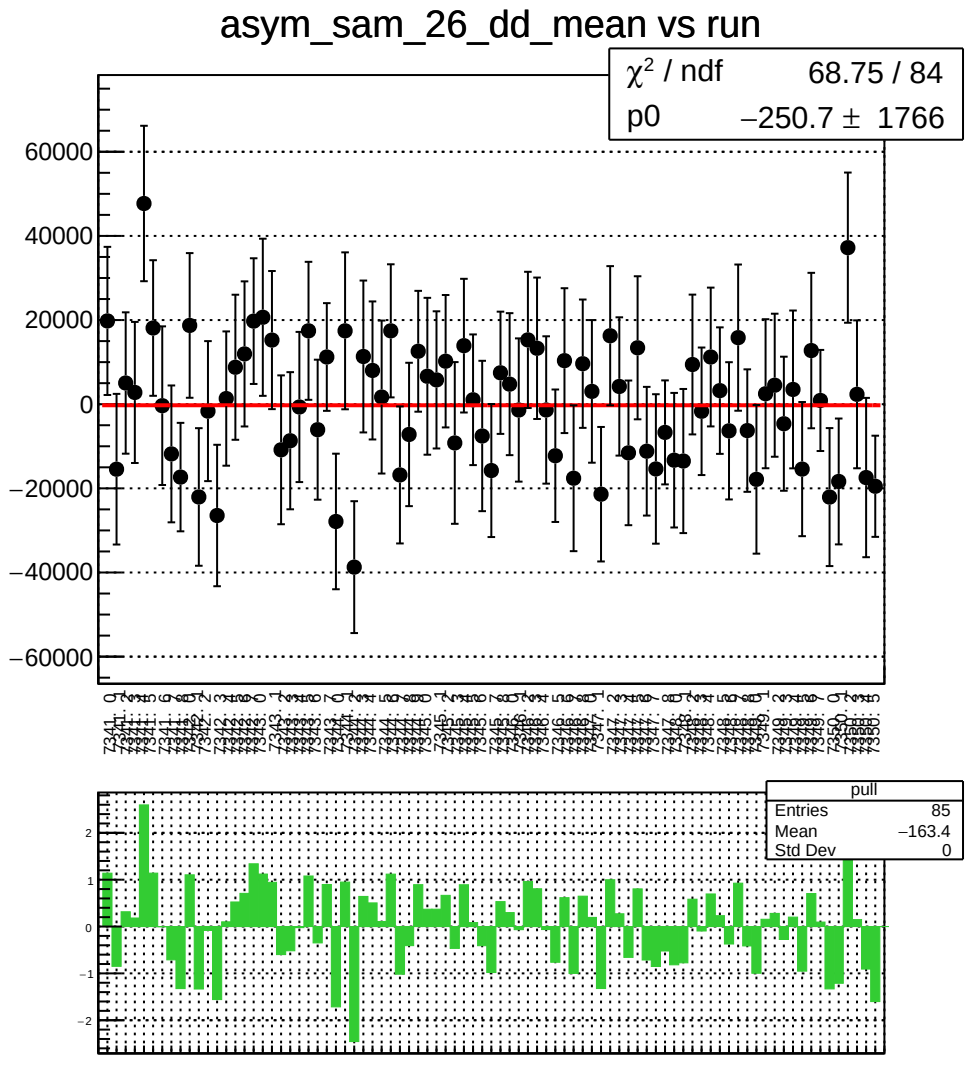

pull1D
Entries 85
Mean −0.001489
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

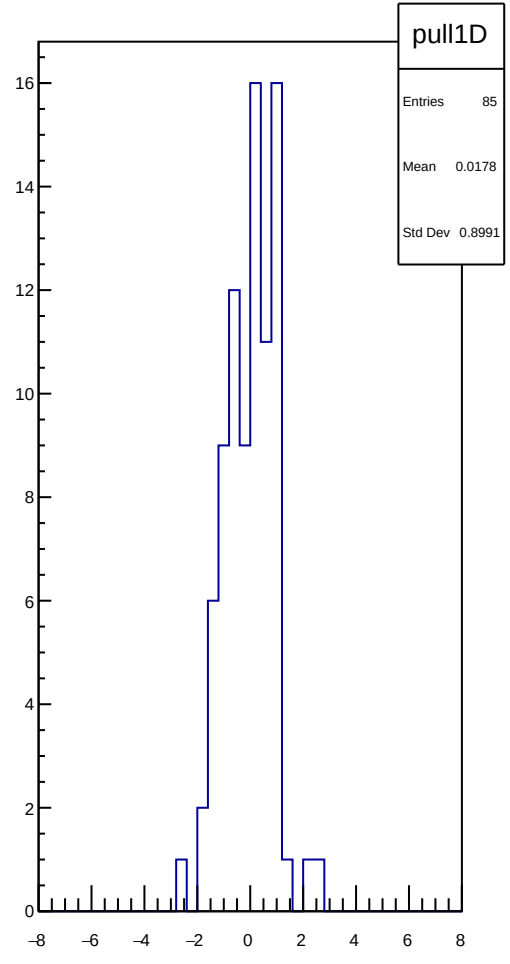

eigen_dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 828.5 / 84
p0 237.4 ± 0.1868
255
250
245
240
235
230
225
220

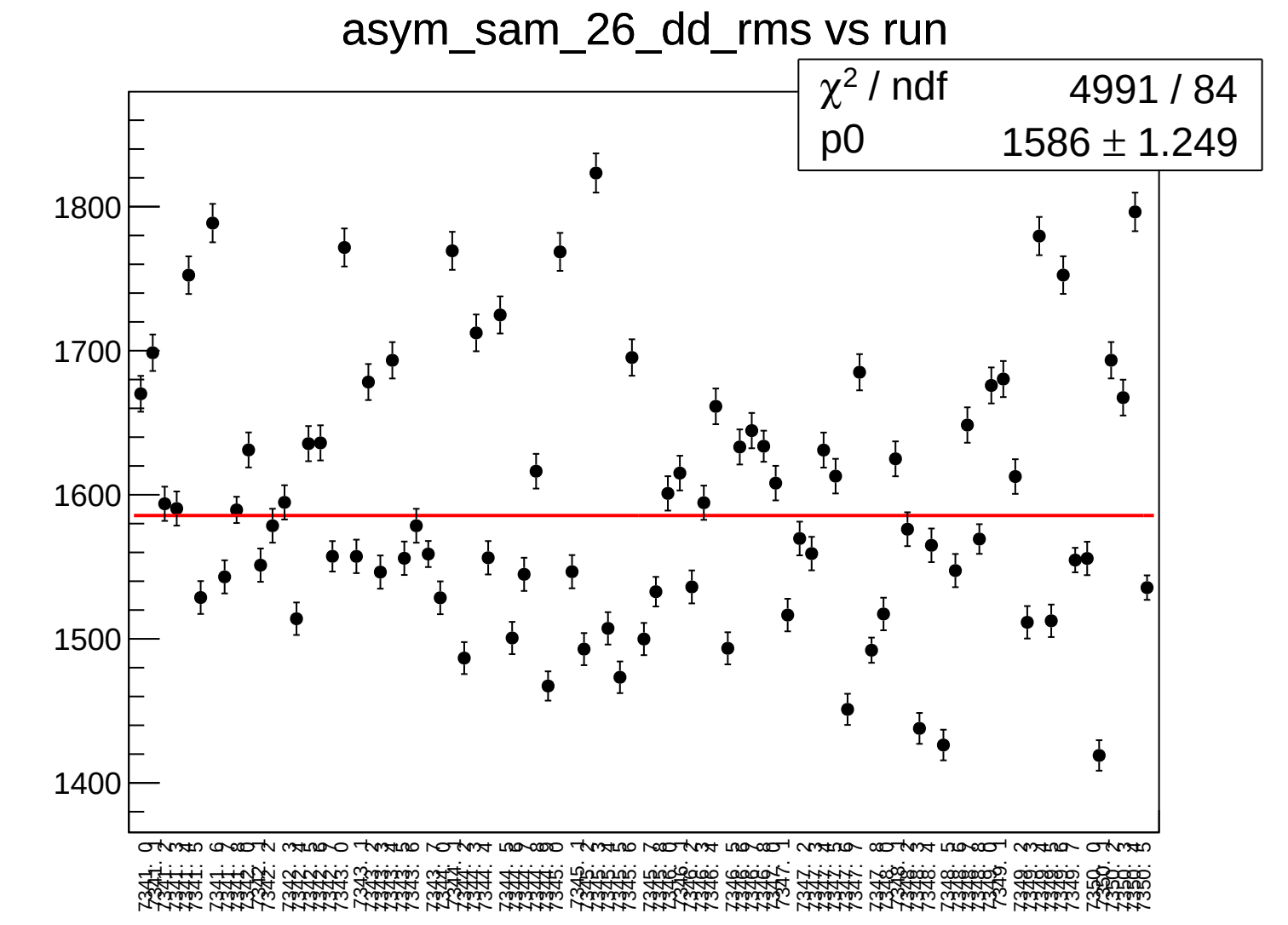

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.17 / 84
p0 144.4 ± 1791
pull
Entries 85
Mean −139.2
Std Dev 0

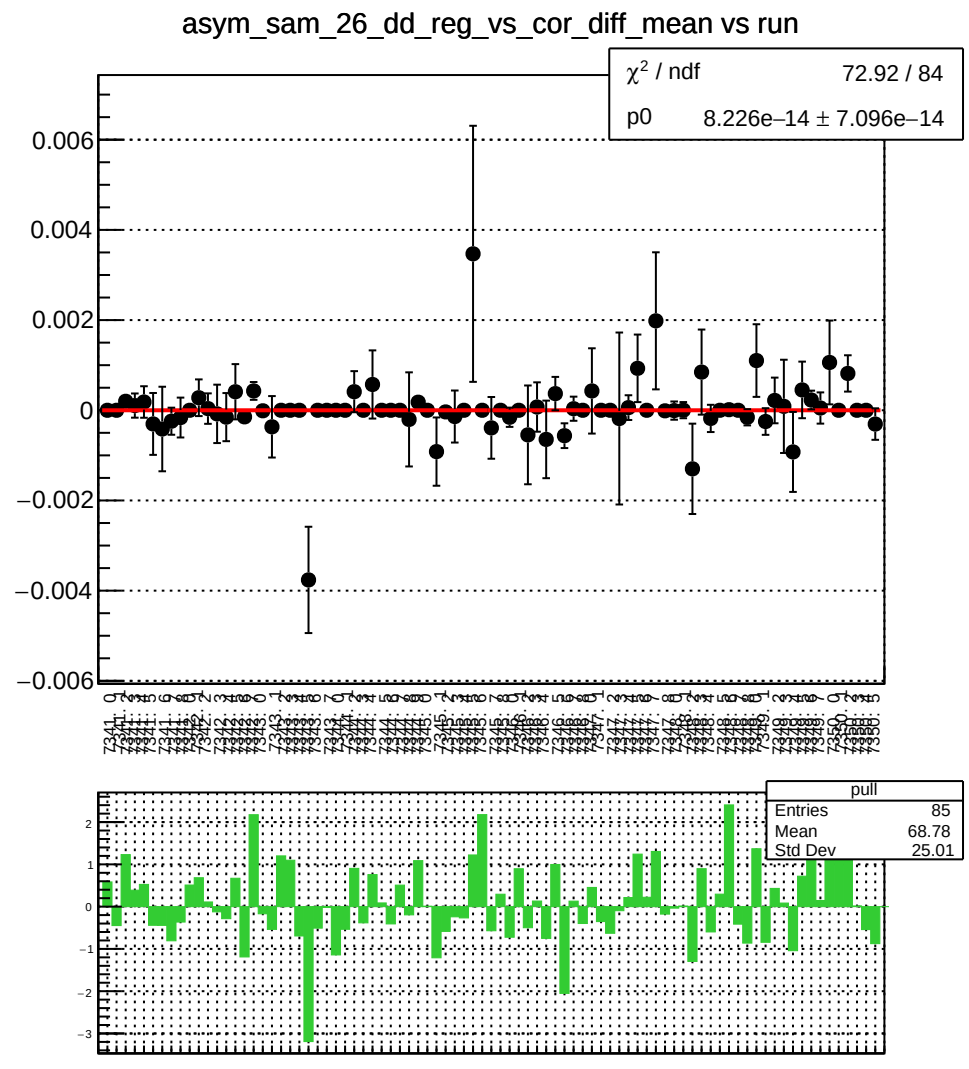

pull1D
Entries 85
Mean −0.0185
Std Dev 0.9402

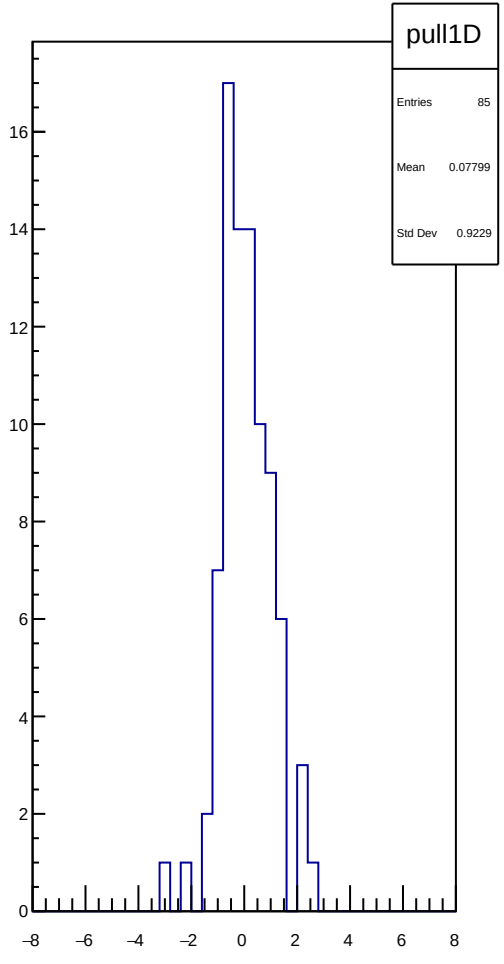

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4826 / 84
p0 1608 ± 1.266
1800
1700
1600
1500
1400

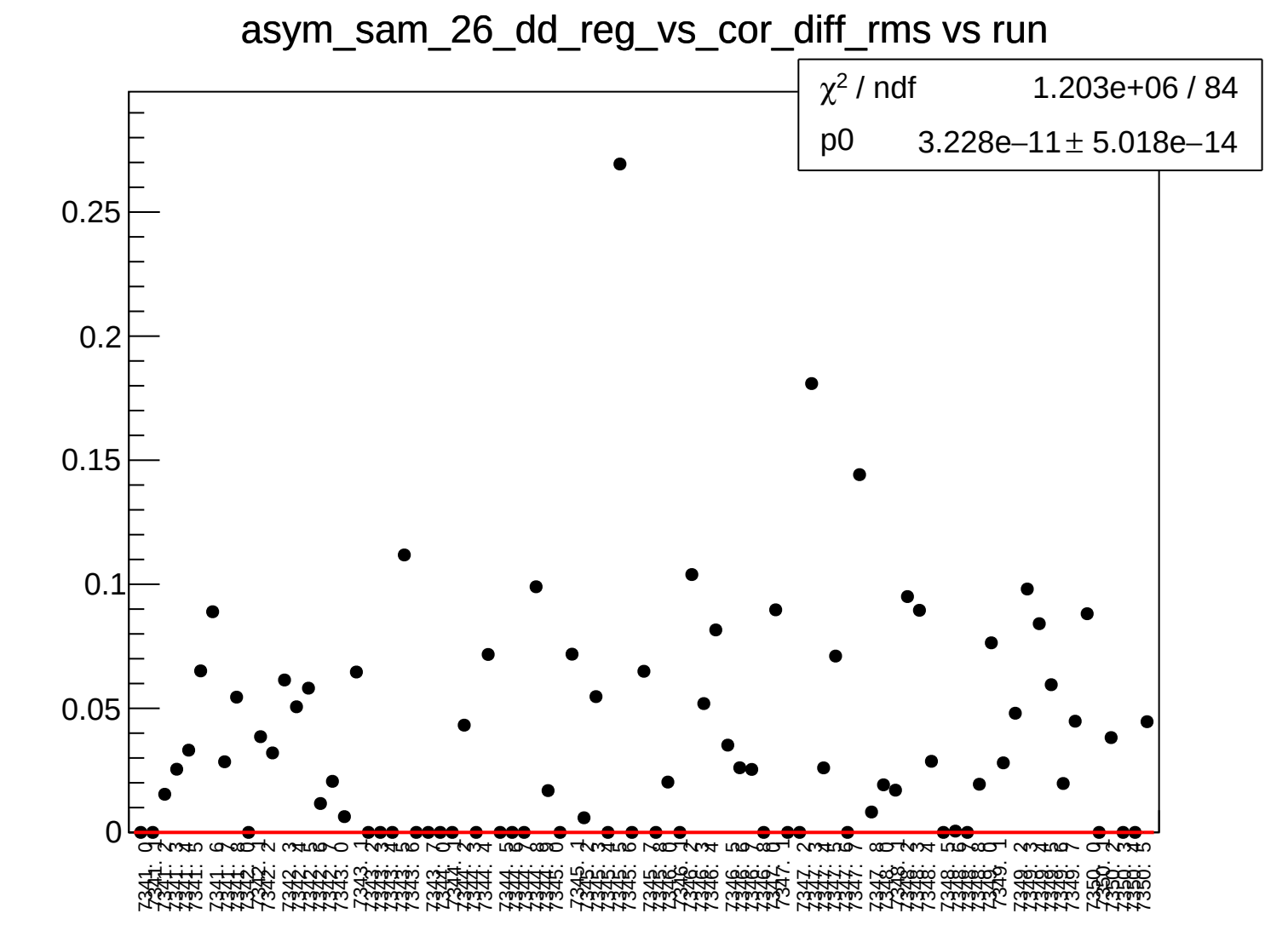

asym_sam_26_dd_mean vs run
χ² / ndf 68.75 / 84
p0 −250.7 ± 1766
pull
Entries 85
Mean −163.4
Std Dev 0

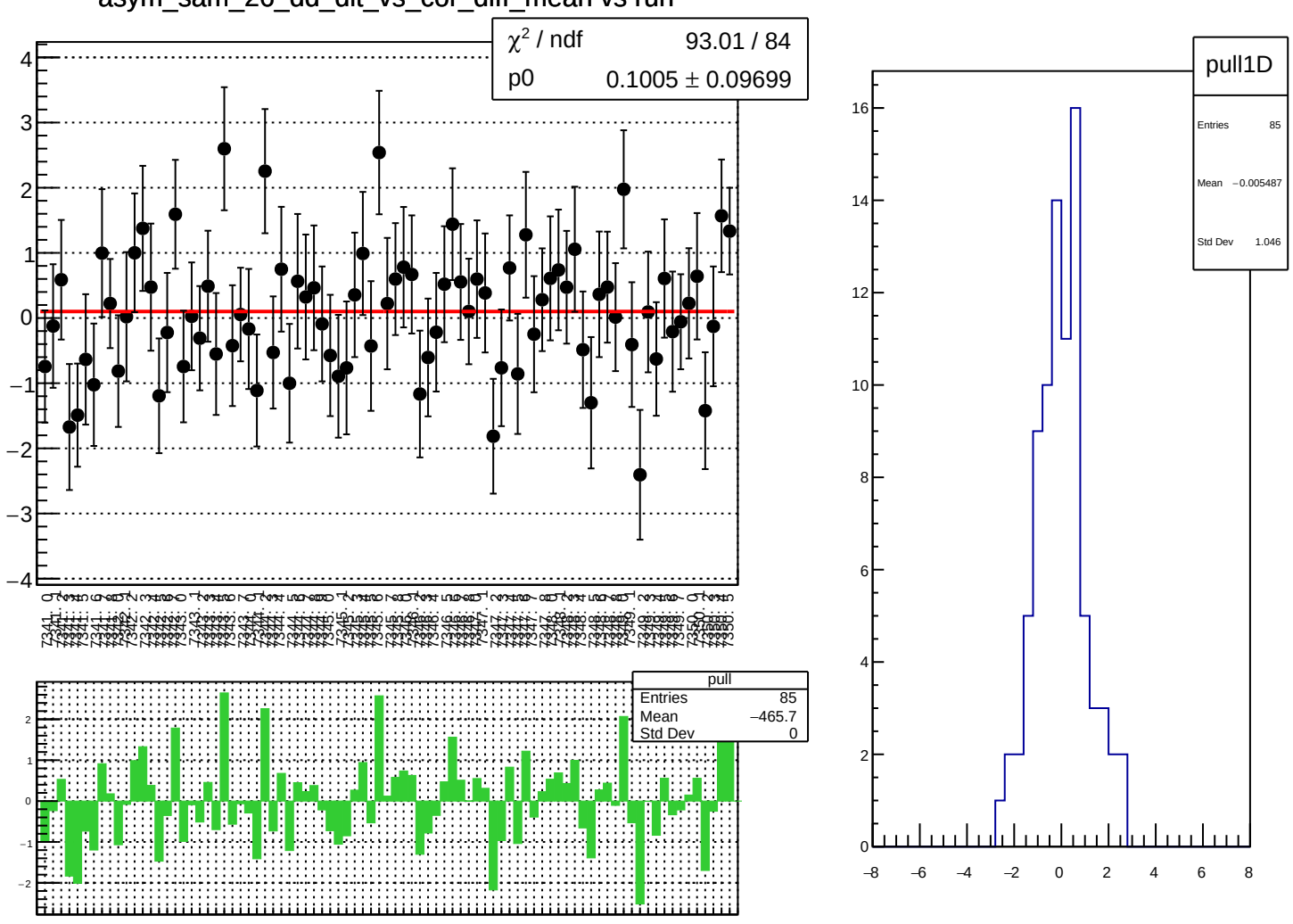

pull1D
Entries 85
Mean 0.0178
Std Dev 0.8991

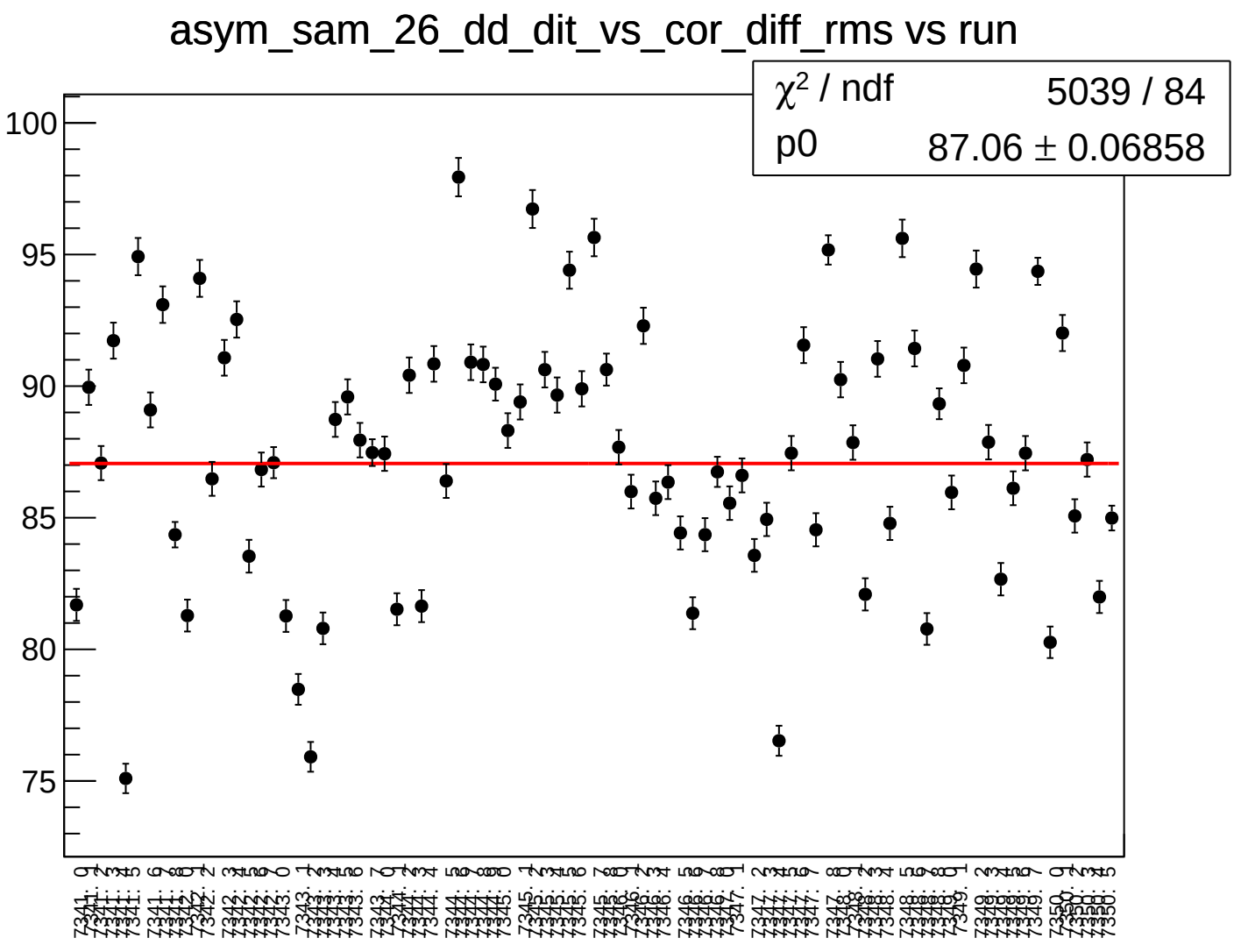

asym_sam_26_dd_rms vs run
χ² / ndf 4991 / 84
p0 1586 ± 1.249
1800
1700
1600
1500
1400

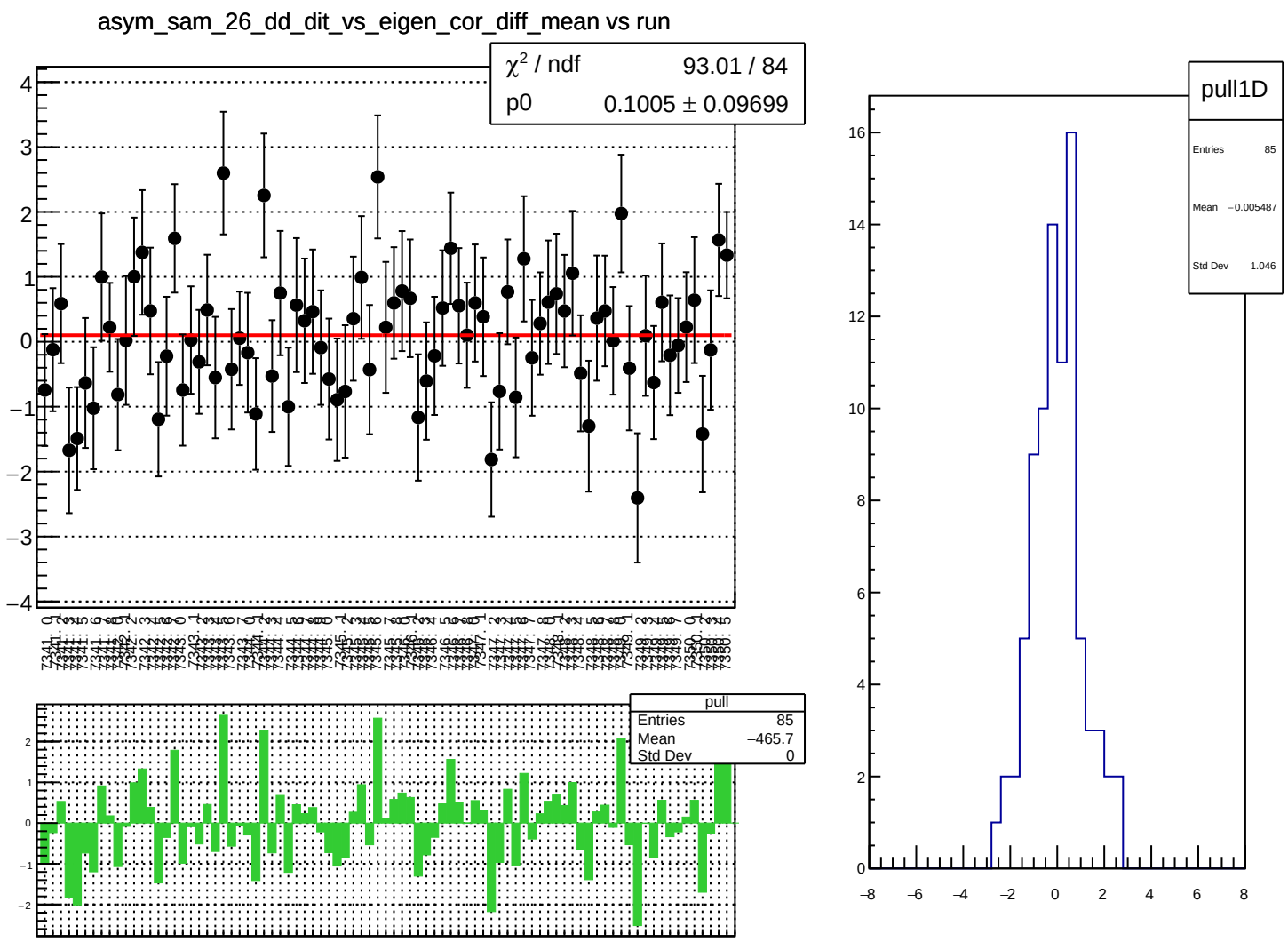

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.92 / 84
p0 8.226e−14 ± 7.096e−14
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 85
Mean 68.78
Std Dev 25.01
2
1
0
−1
−2
−3

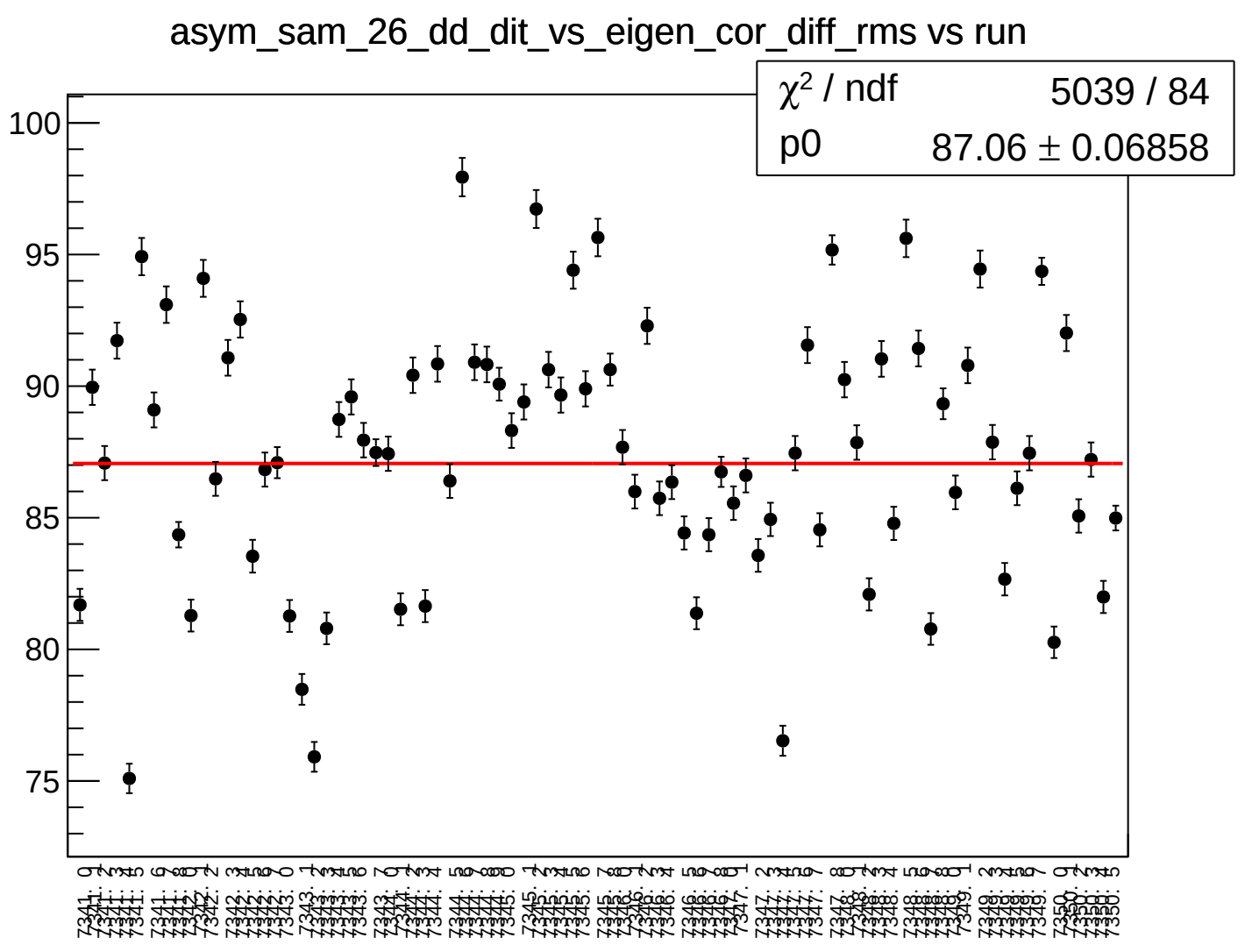

pull1D
Entries 85
Mean 0.07799
Std Dev 0.9229
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

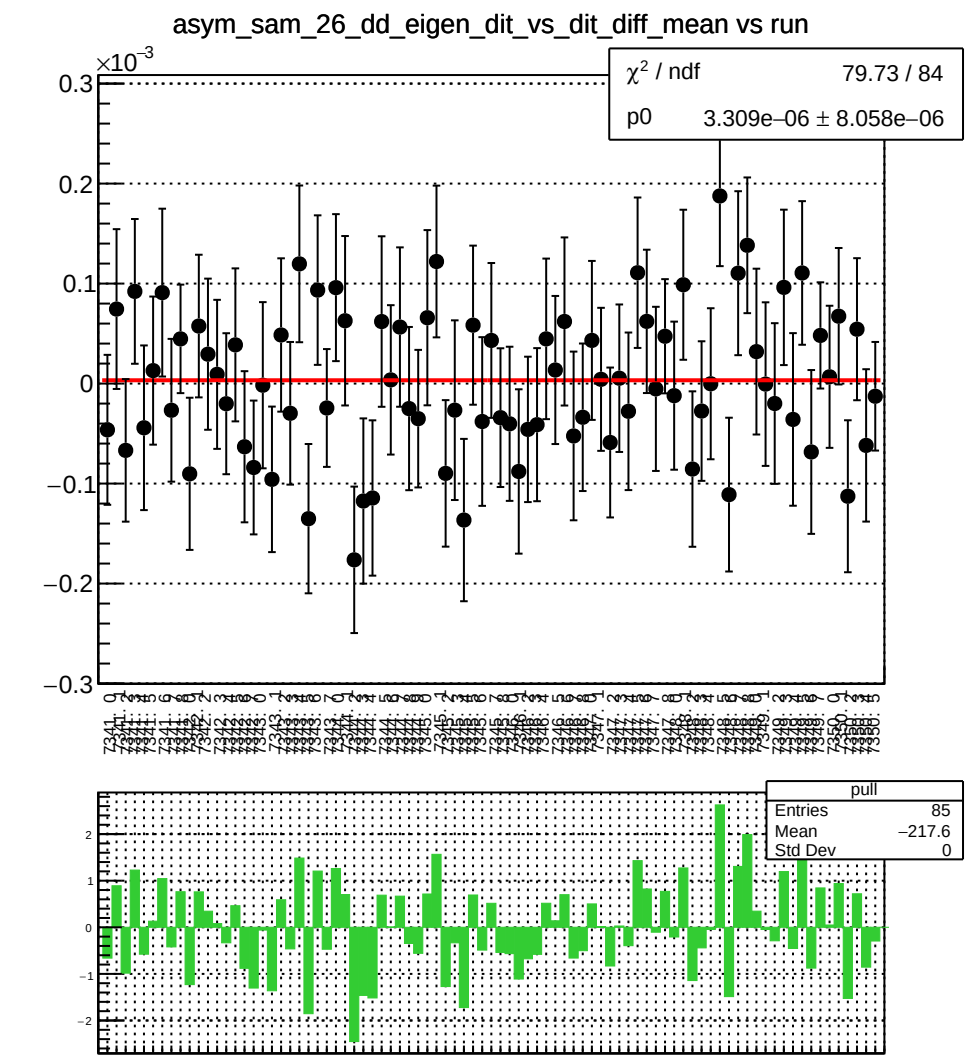

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.203e+06 / 84
p0 3.228e−11 ± 5.018e−14
0.25
0.2
0.15
0.1
0.05
0

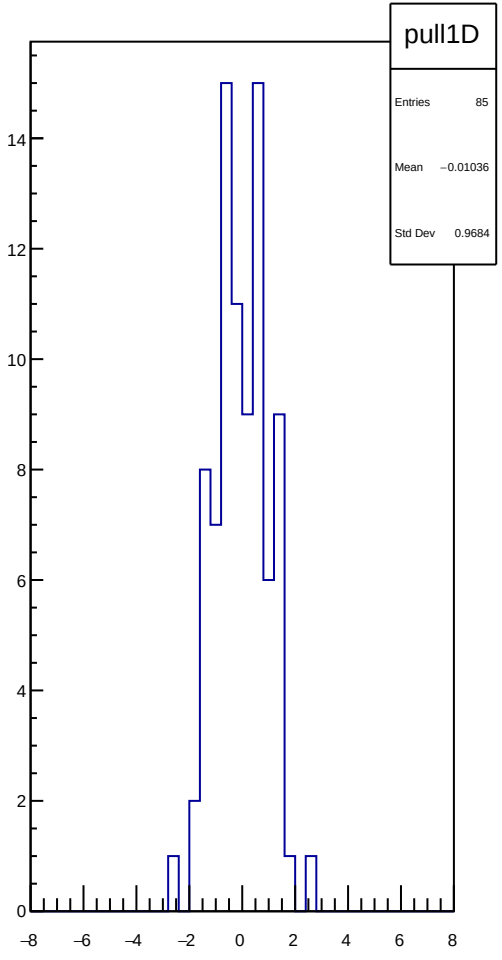

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.01 / 84
p0 0.1005 ± 0.09699
pull
Entries 85
Mean −465.7
Std Dev 0
pull1D
Entries 85
Mean −0.005487
Std Dev 1.046

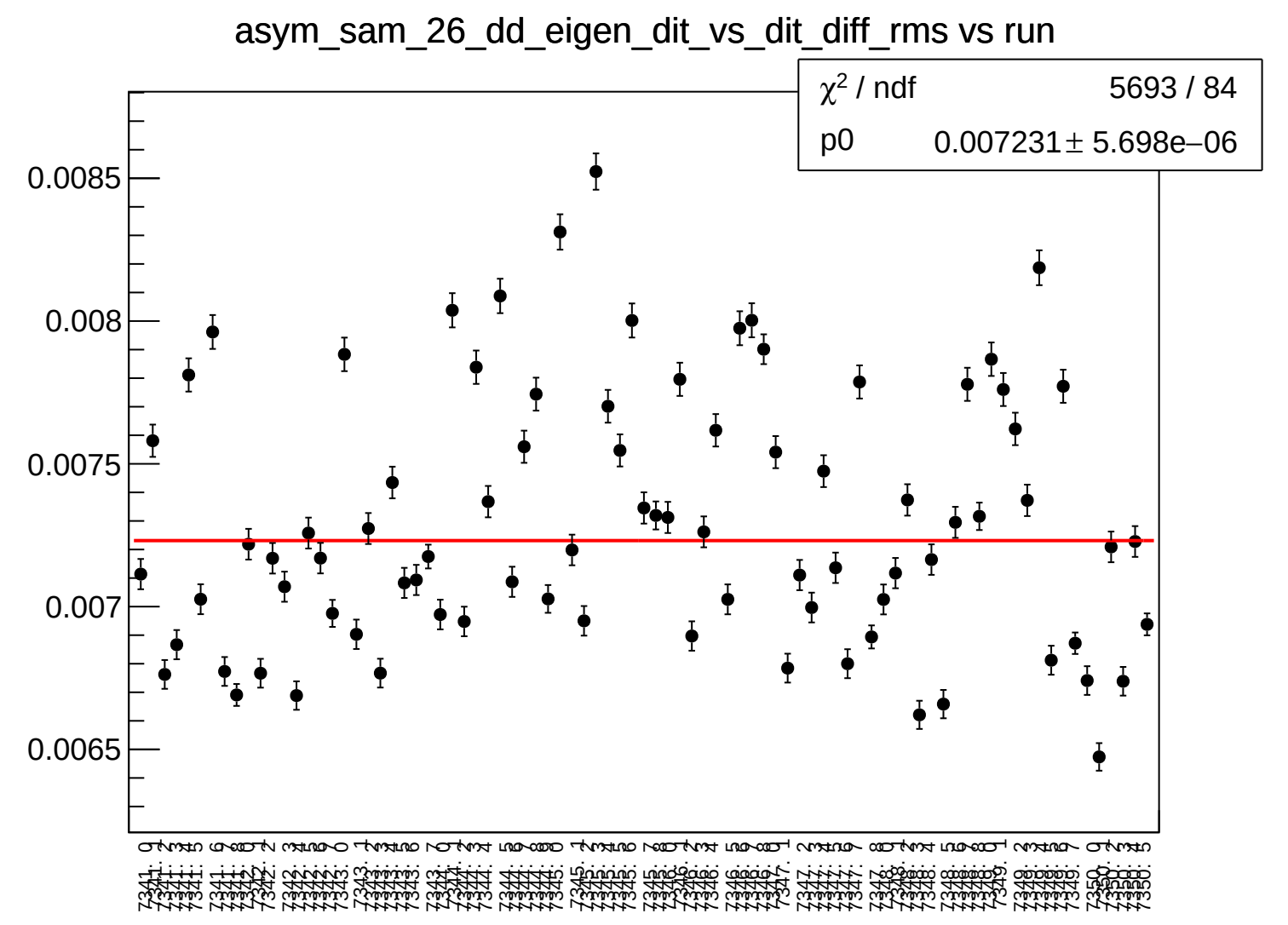

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5039 / 84
p0 87.06 ± 0.06858
100
95
90
85
80
75

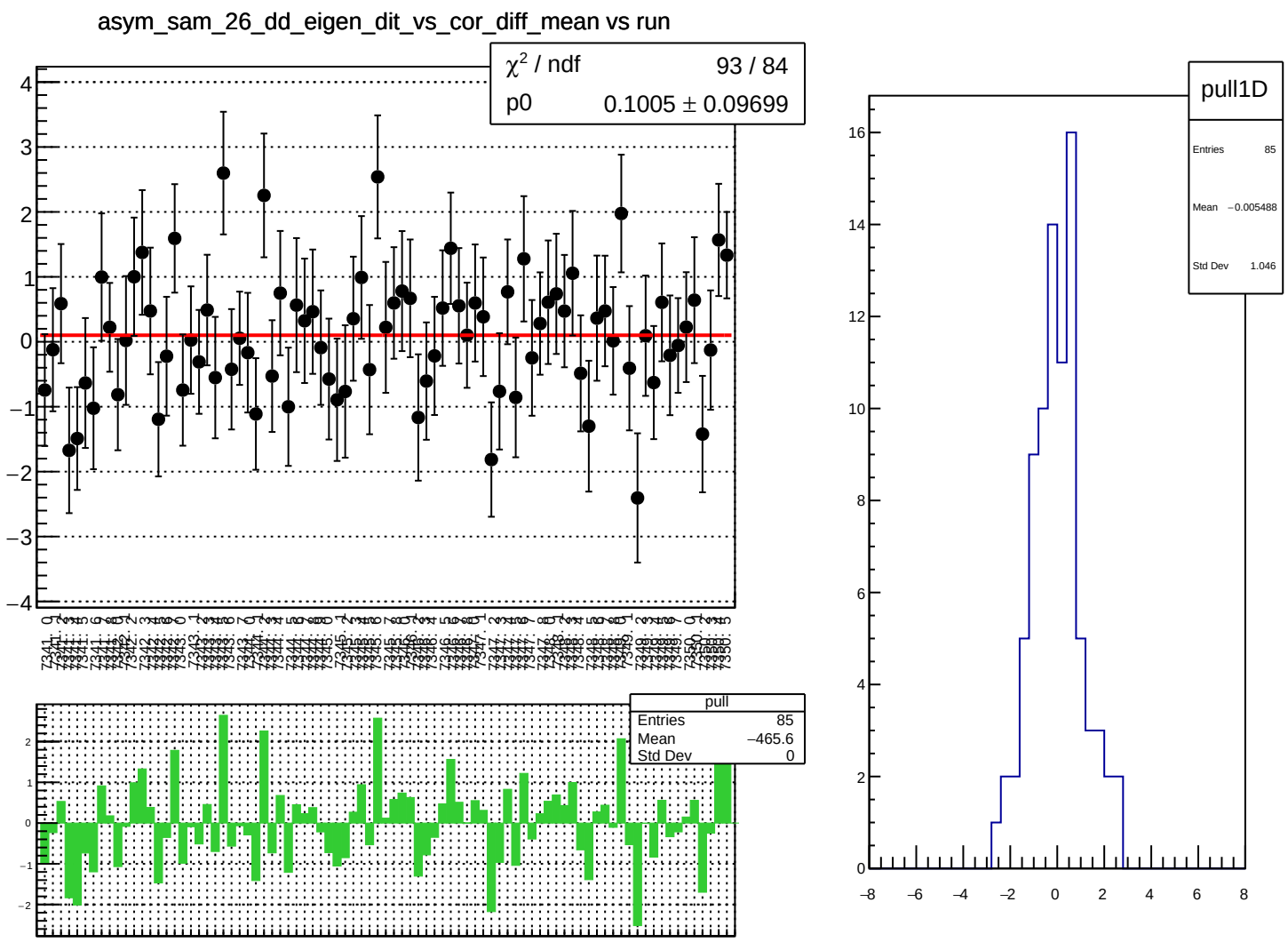

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.01 / 84
p0 0.1005 ± 0.09699
pull
Entries 85
Mean −465.7
Std Dev 0
pull1D
Entries 85
Mean −0.005487
Std Dev 1.046

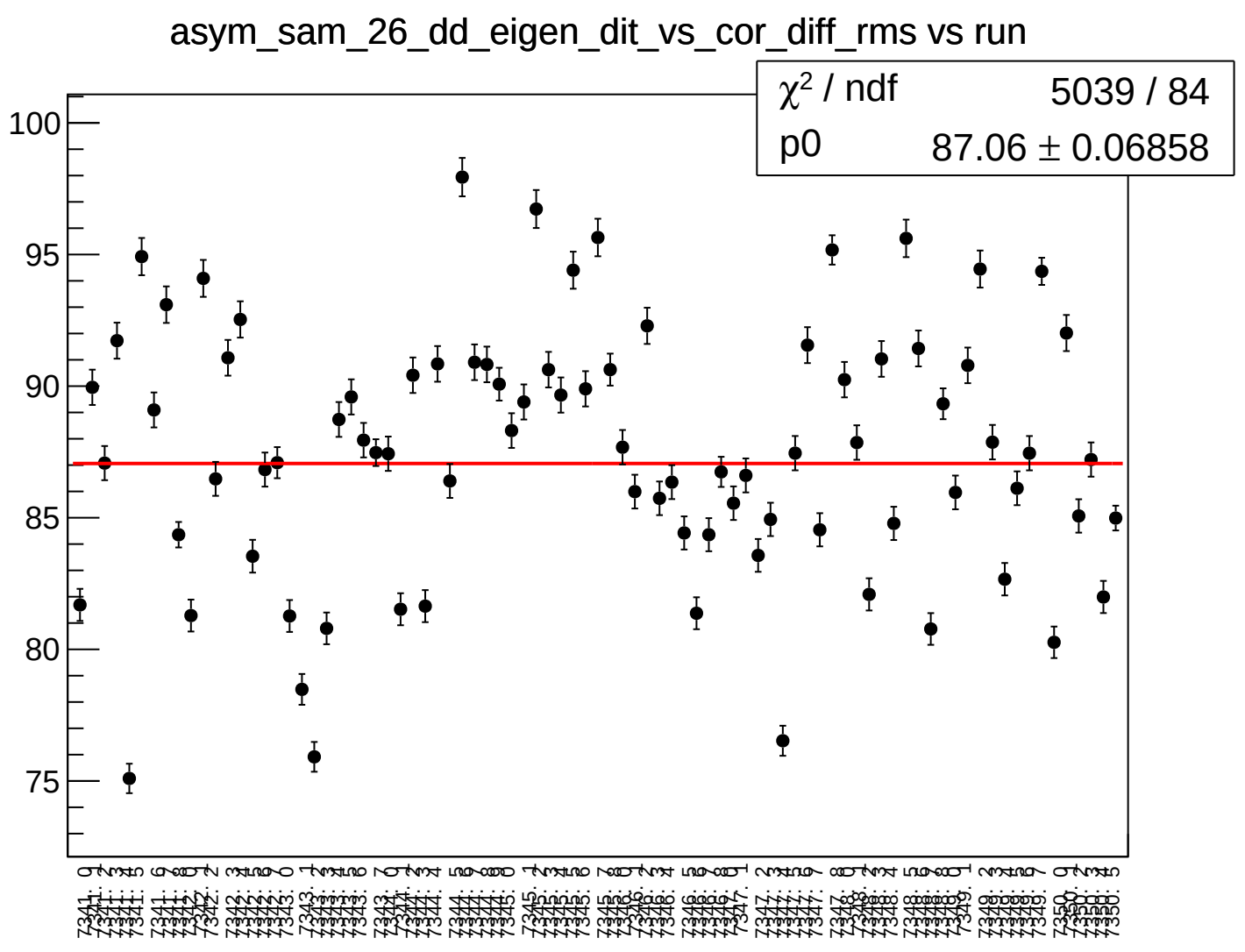

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5039 / 84
p0 87.06 ± 0.06858
100
95
90
85
80
75

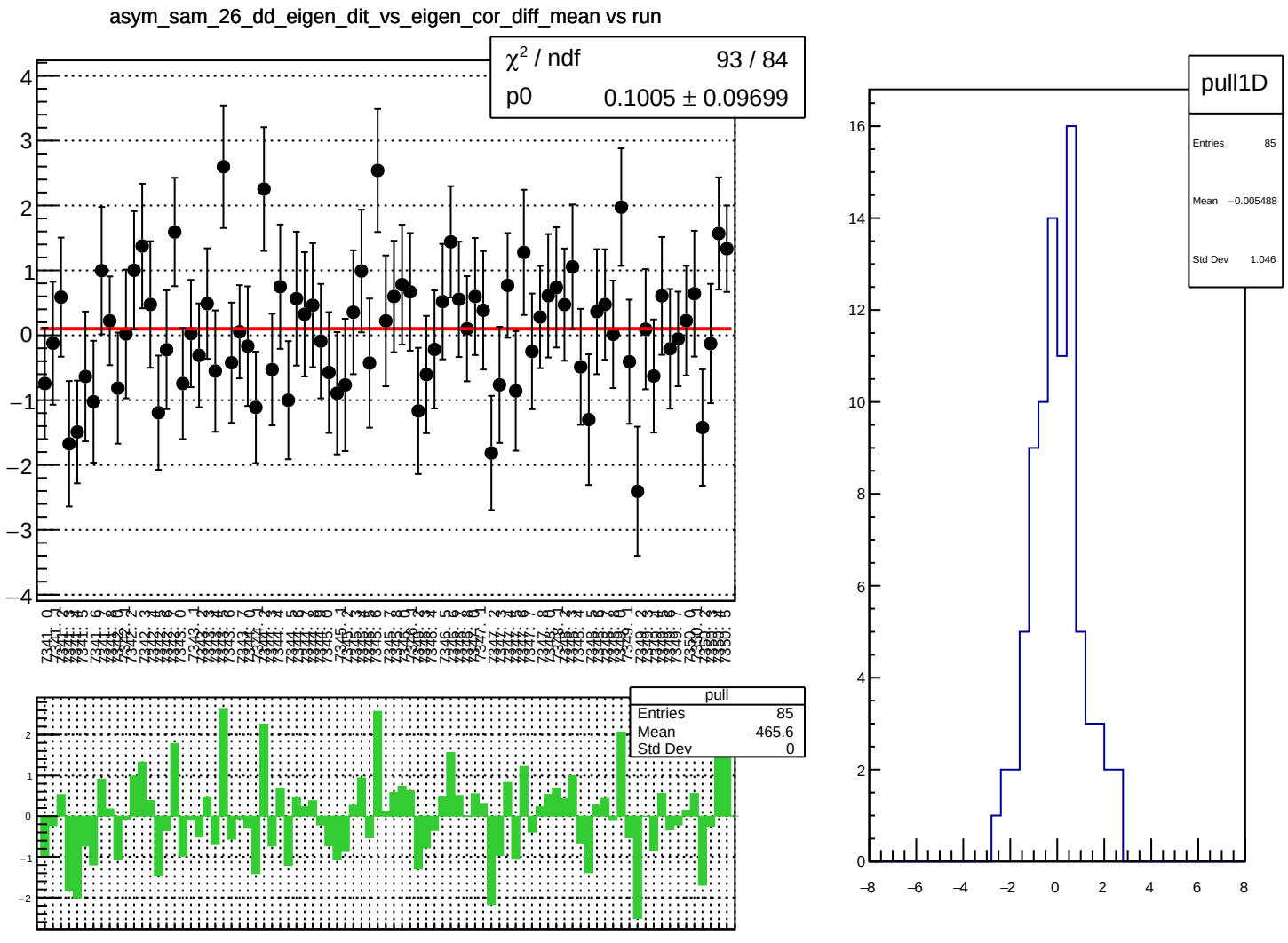

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.73 / 84
p0 3.309e−06 ± 8.058e−06
pull
Entries 85
Mean −217.6
Std Dev 0

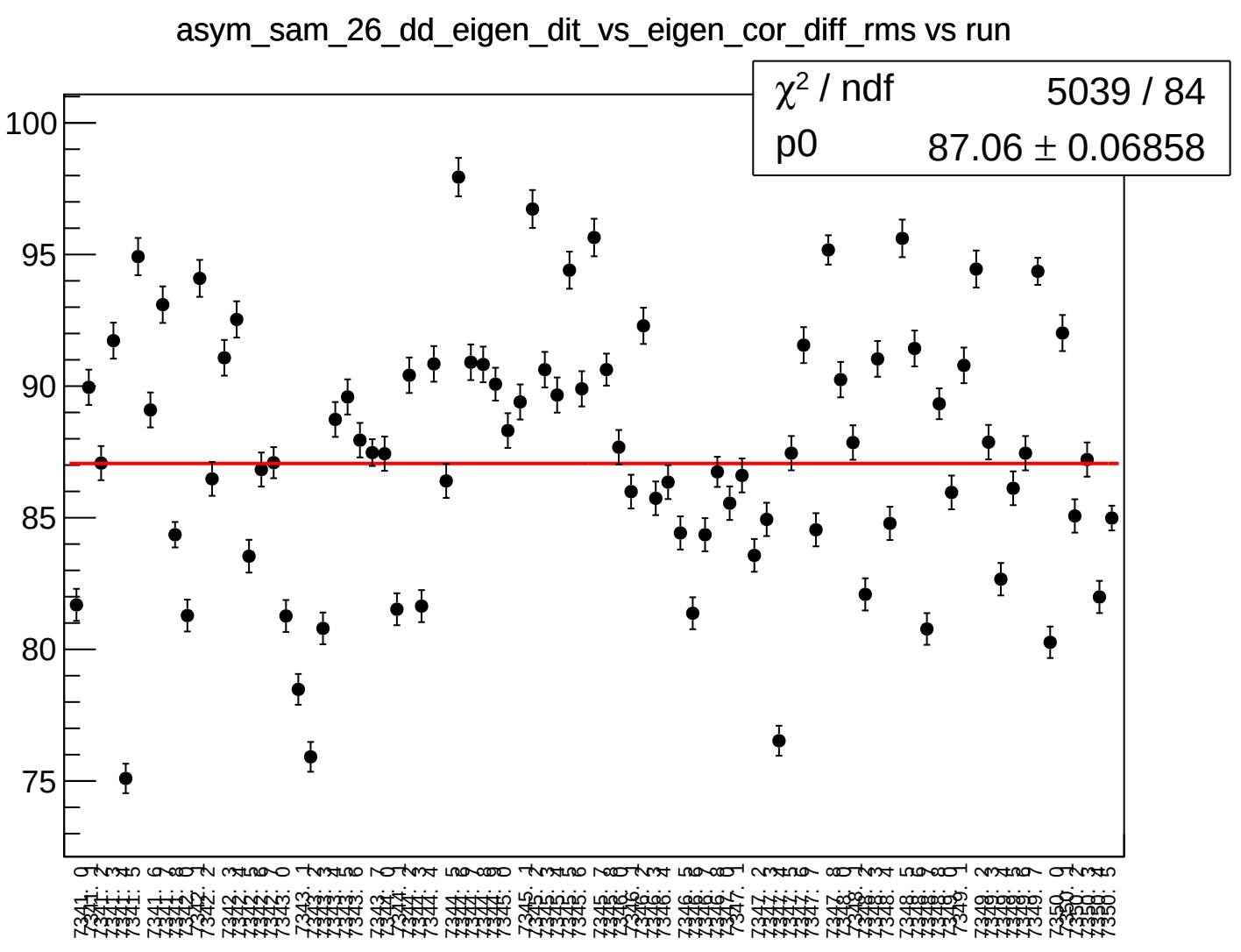

pull1D
Entries 85
Mean −0.01036
Std Dev 0.9684

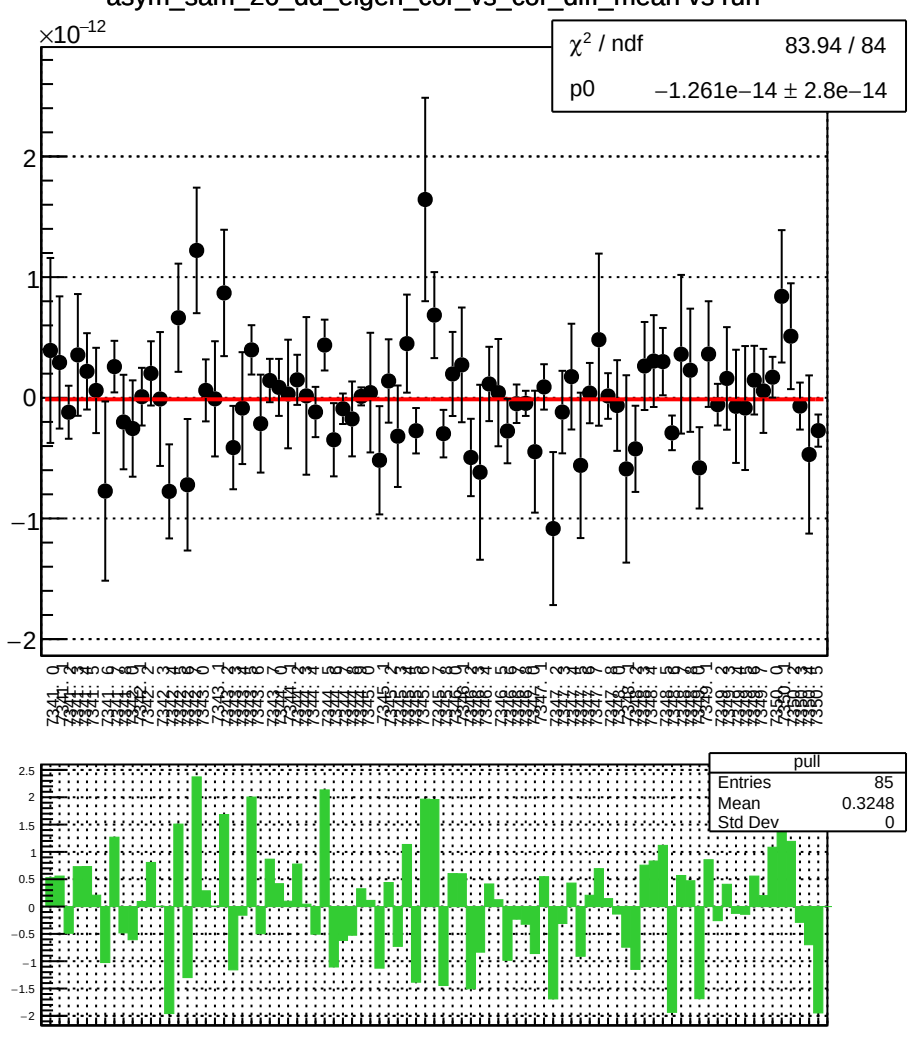

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5693 / 84
p0 0.007231 ± 5.698e−06
0.0085
0.008
0.0075
0.007
0.0065

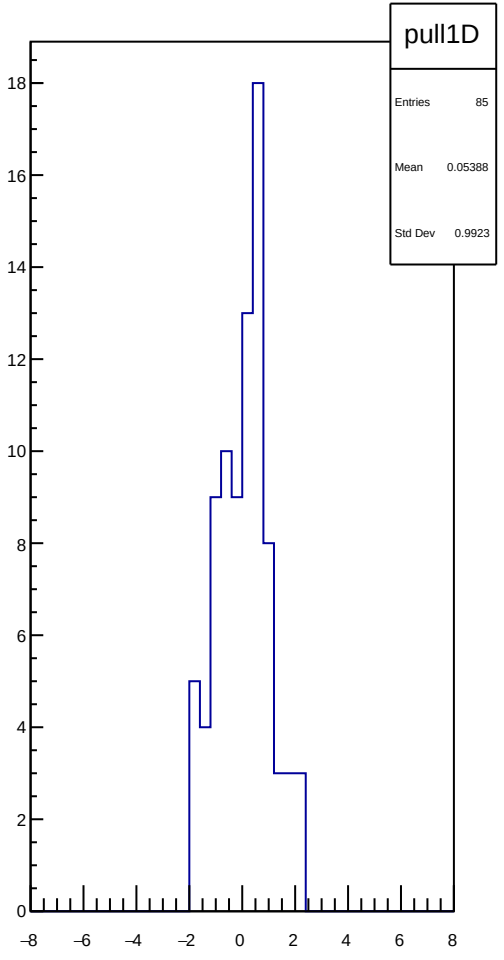

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93 / 84
p0 0.1005 ± 0.09699
pull
Entries 85
Mean −465.6
Std Dev 0
pull1D
Entries 85
Mean −0.005488
Std Dev 1.046

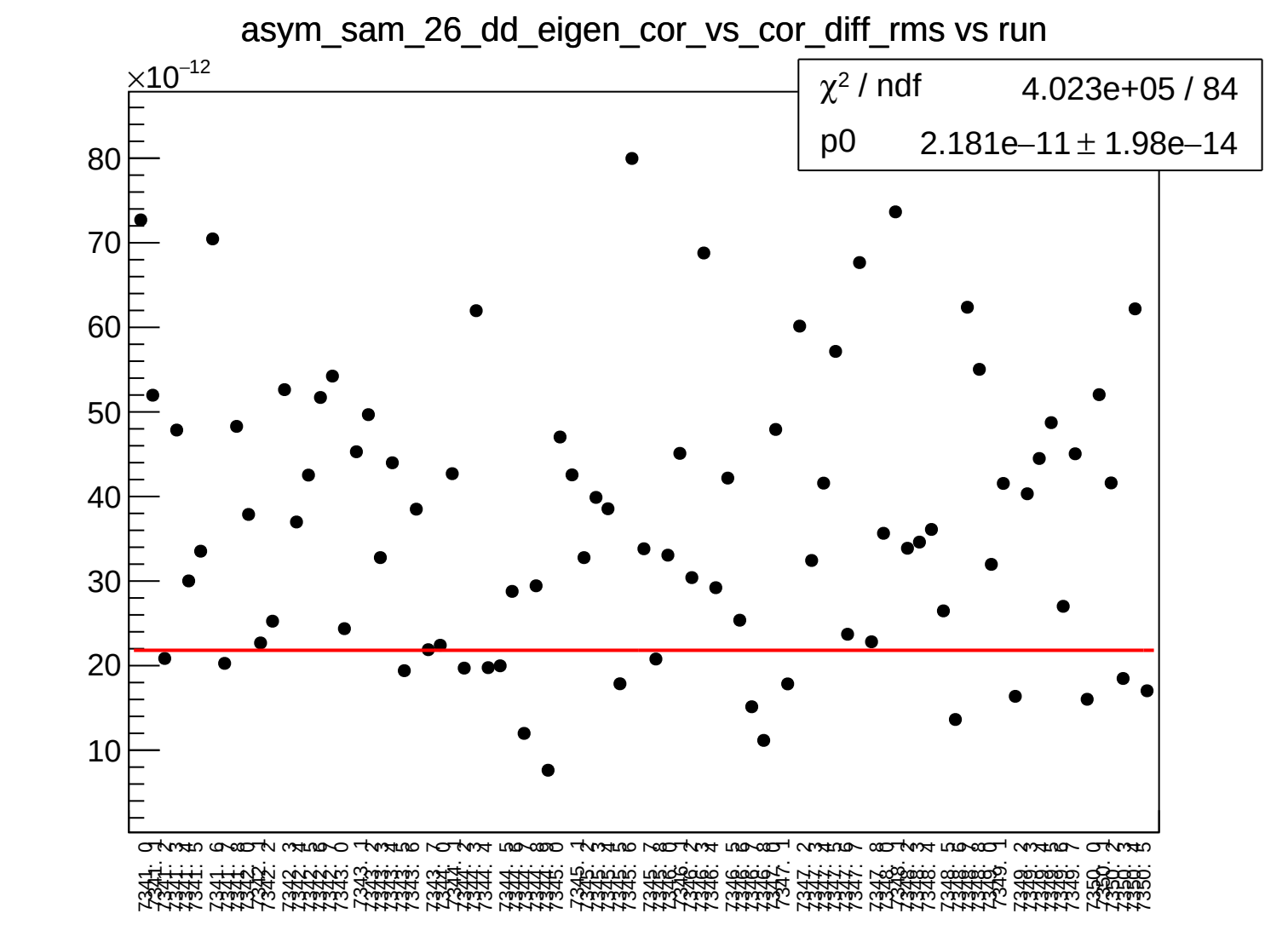

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5039 / 84
p0 87.06 ± 0.06858
100
95
90
85
80
75

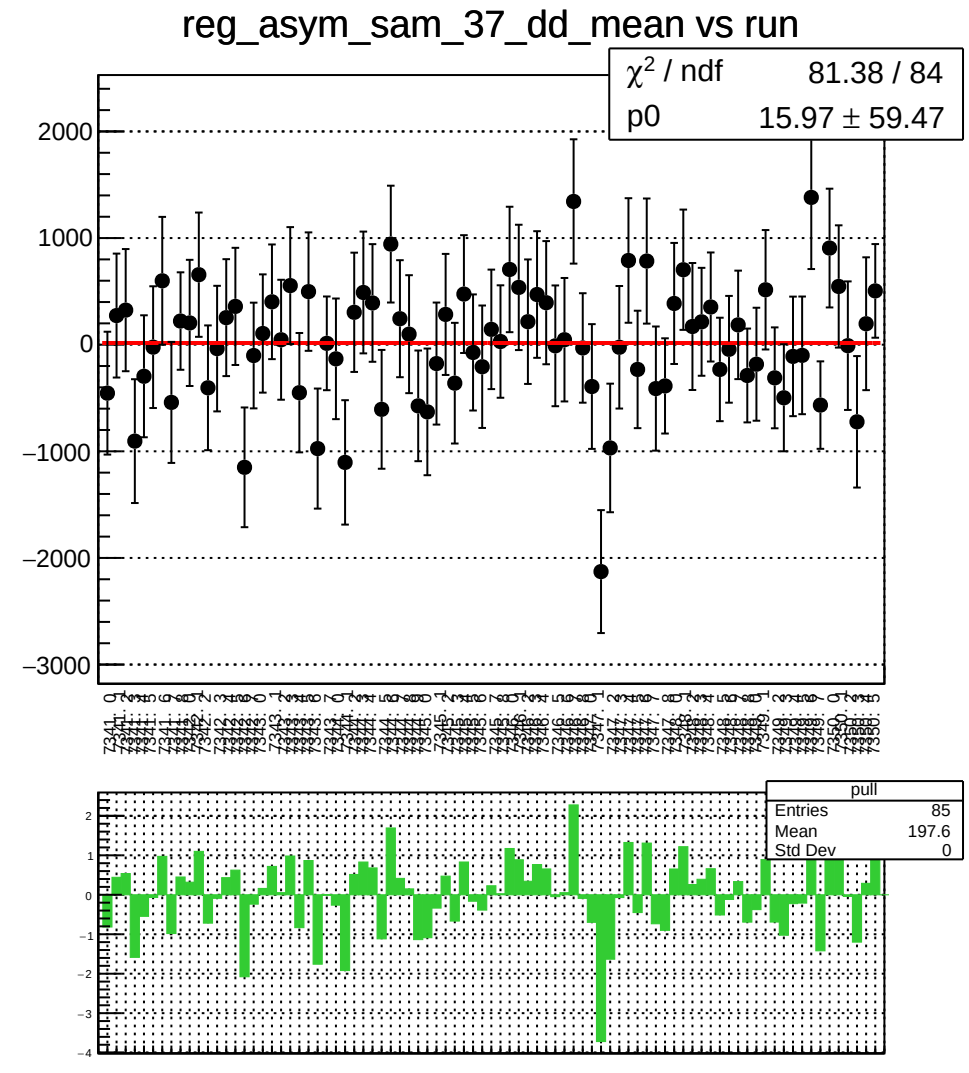

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93 / 84
p0 0.1005 ± 0.09699
pull
Entries 85
Mean −465.6
Std Dev 0
pull1D
Entries 85
Mean −0.005488
Std Dev 1.046

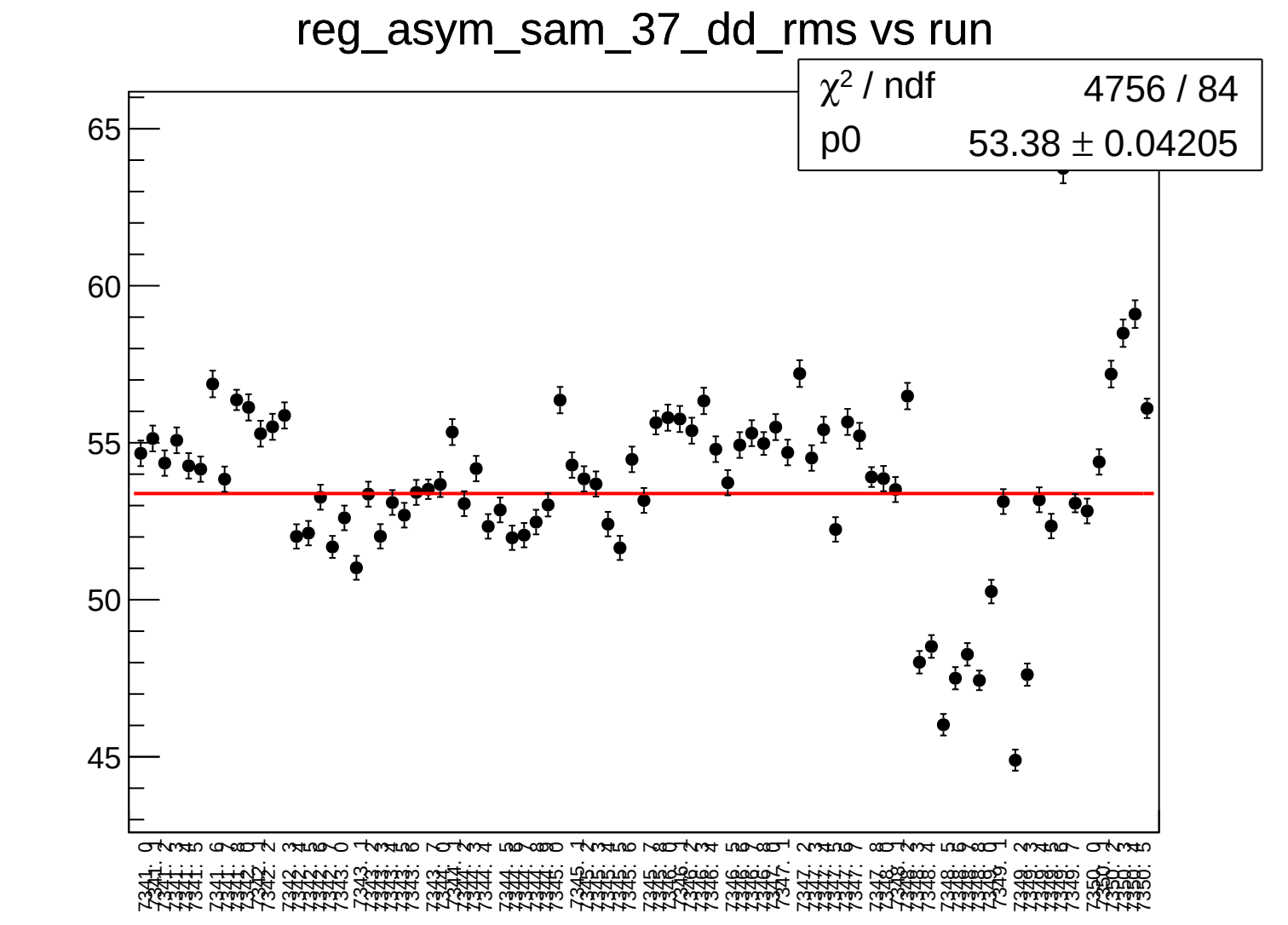

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5039 / 84
p0 87.06 ± 0.06858
100
95
90
85
80
75

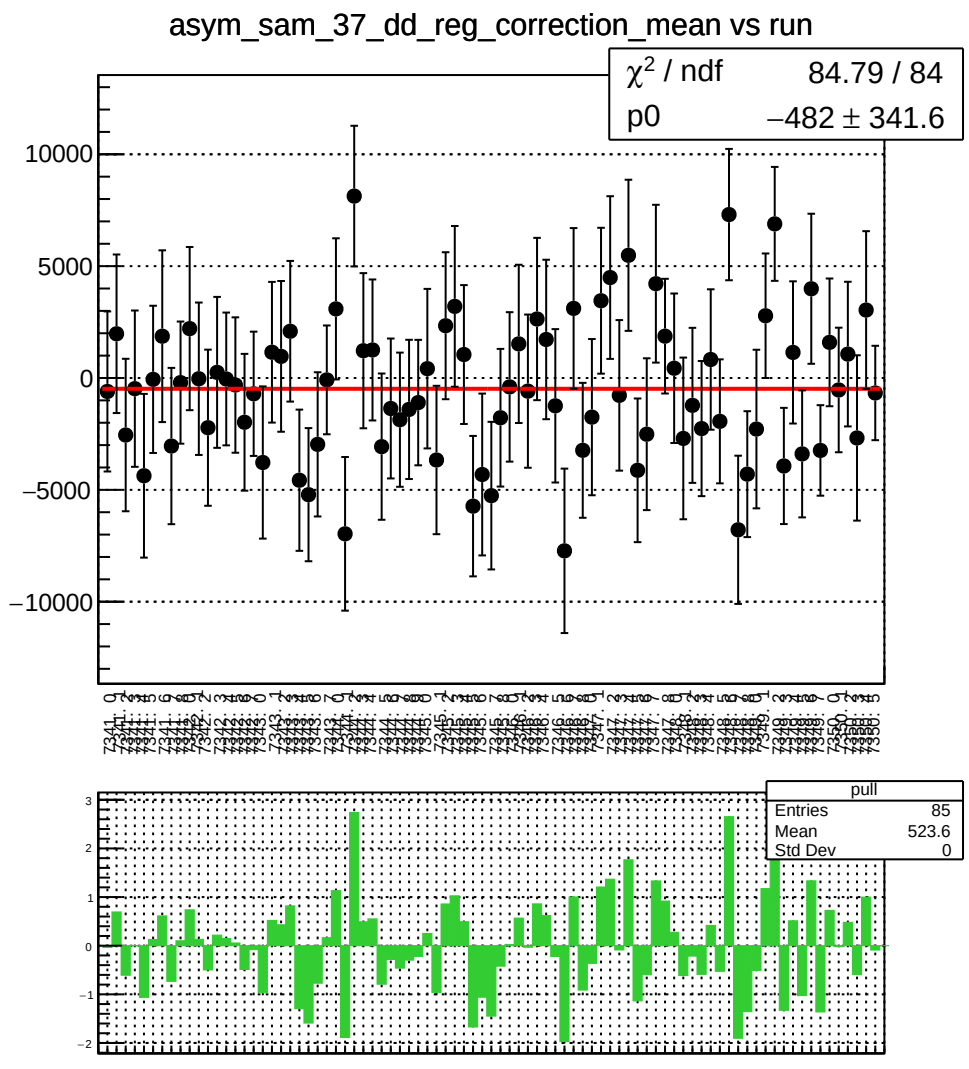

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.94 / 84
p0 −1.261e−14 ± 2.8e−14
pull
Entries 85
Mean 0.3248
Std Dev 0

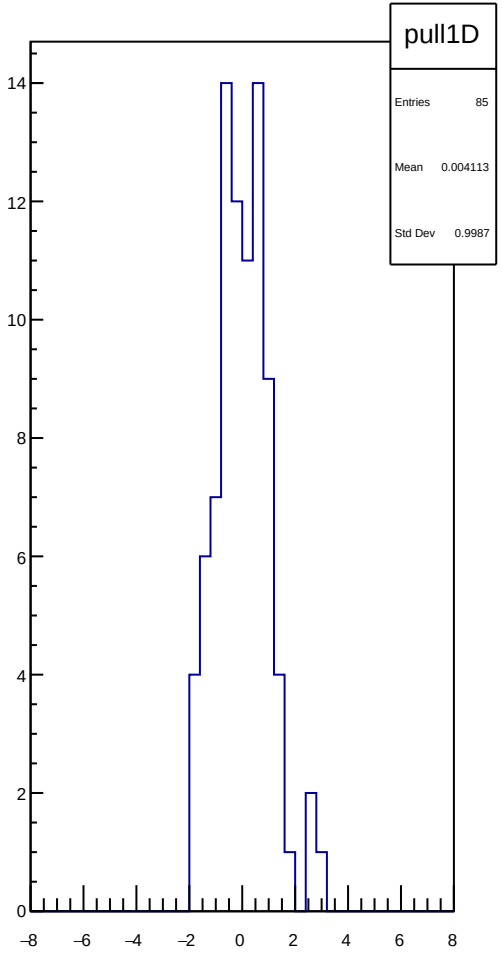

pull1D
Entries 85
Mean 0.05388
Std Dev 0.9923

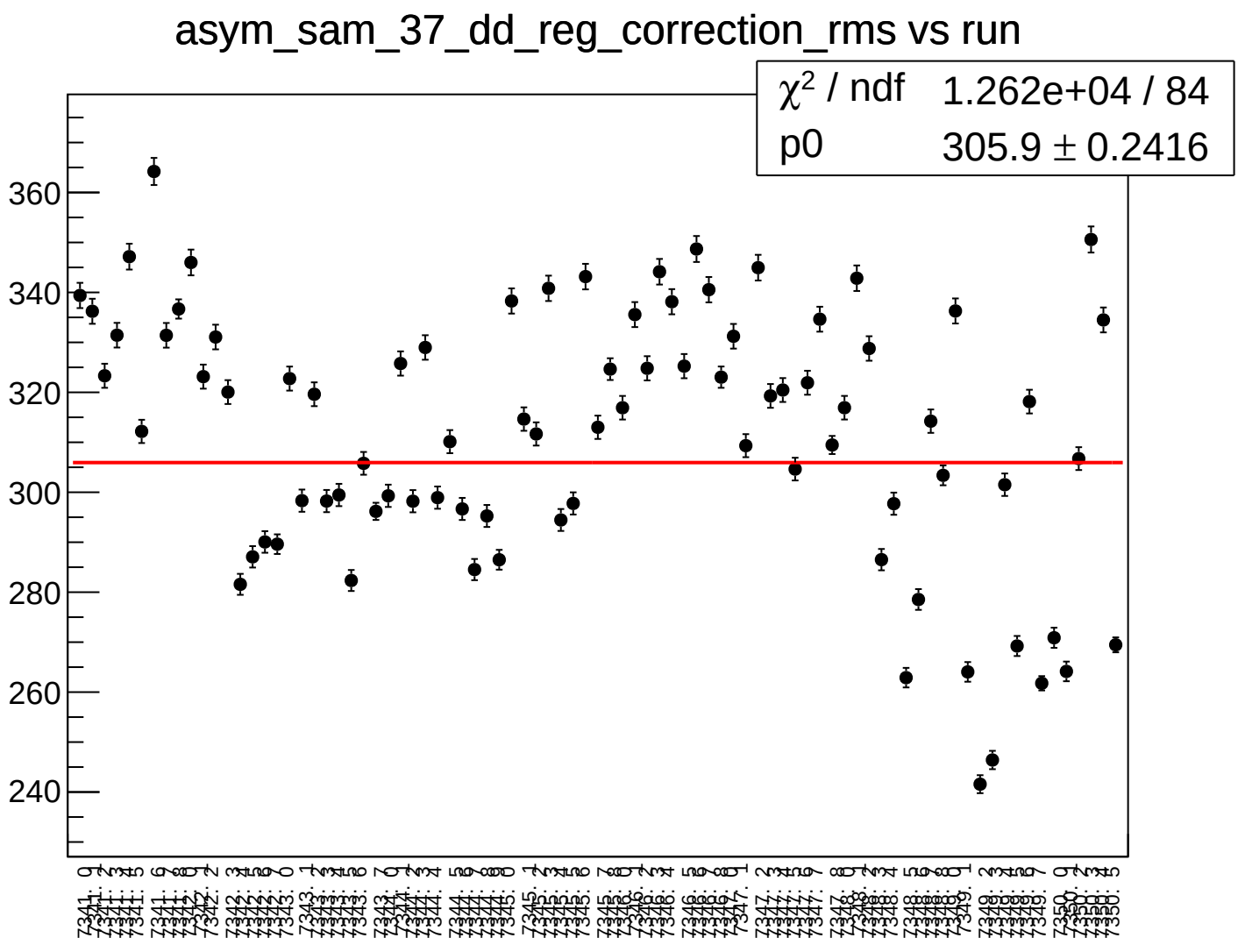

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.023e+05 / 84
p0 2.181e−11 ± 1.98e−14
80
70
60
50
40
30
20
10

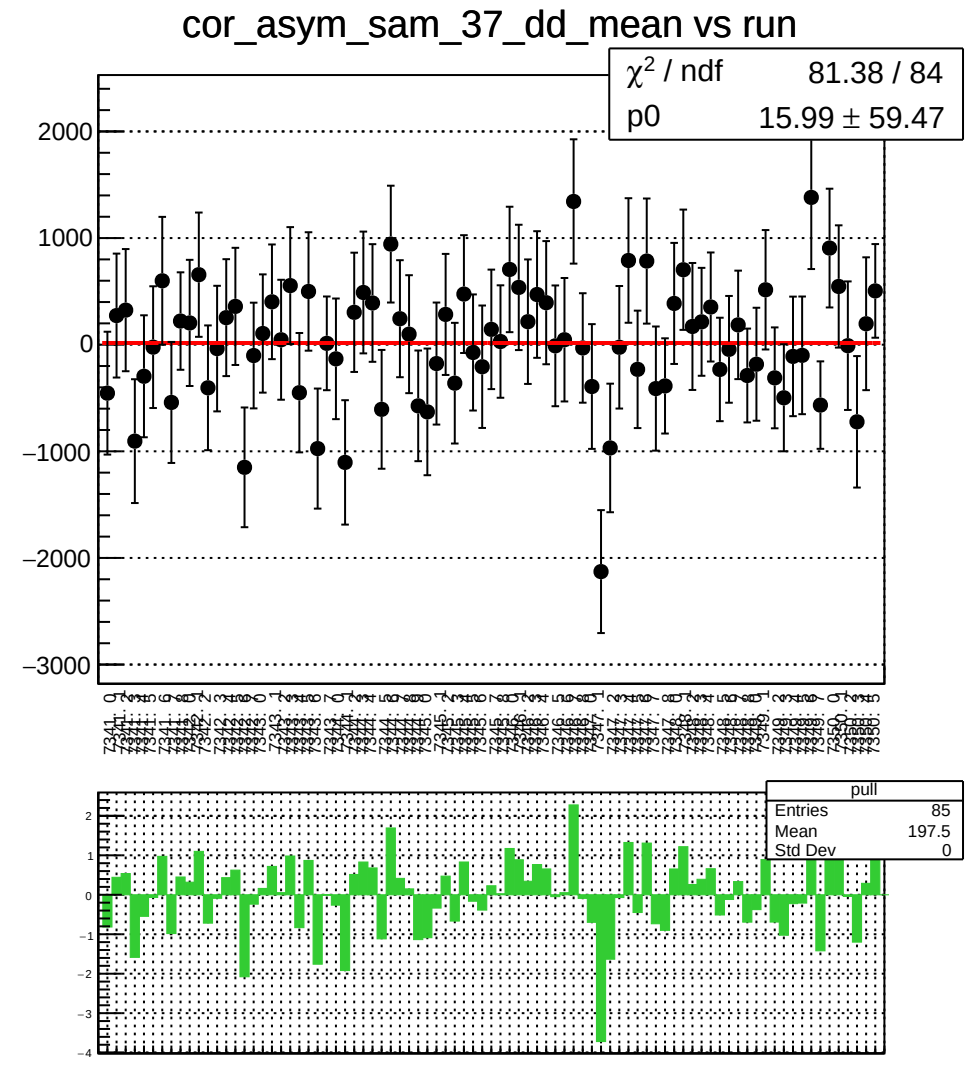

reg_asym_sam_37_dd_mean vs run
χ² / ndf 81.38 / 84
p0 15.97 ± 59.47
pull
Entries 85
Mean 197.6
Std Dev 0
pull1D
Entries 85
Mean 0.01181
Std Dev 0.9784

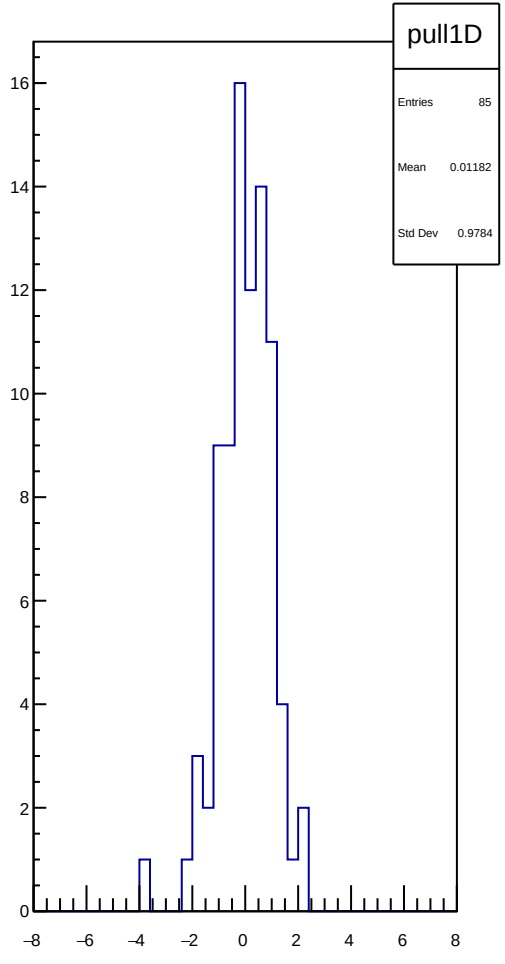

reg_asym_sam_37_dd_rms vs run
χ² / ndf 4756 / 84
p0 53.38 ± 0.04205
65
60
55
50
45

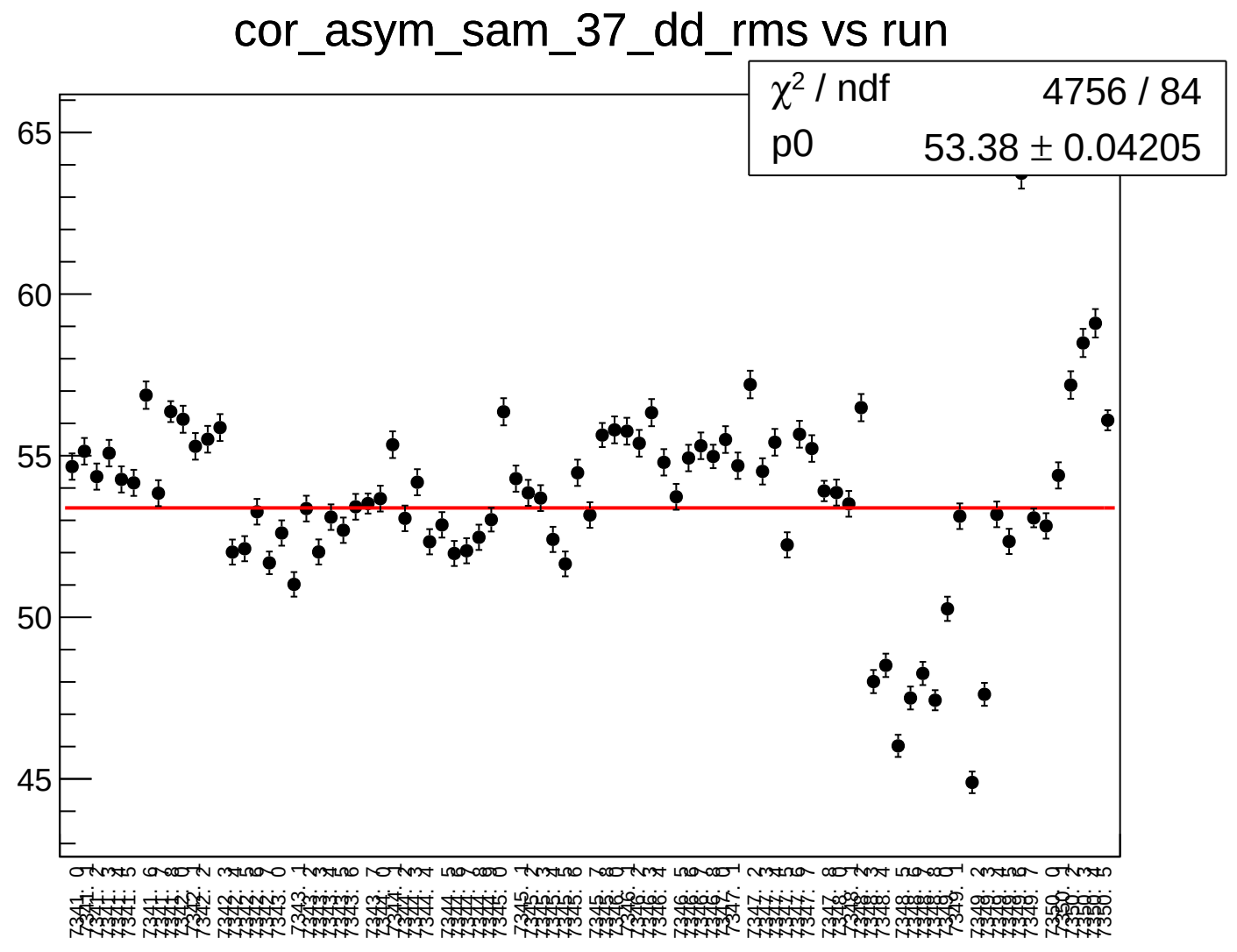

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 84.79 / 84
p0 −482 ± 341.6
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 523.6
Std Dev 0
3
2
1
0
−1
−2

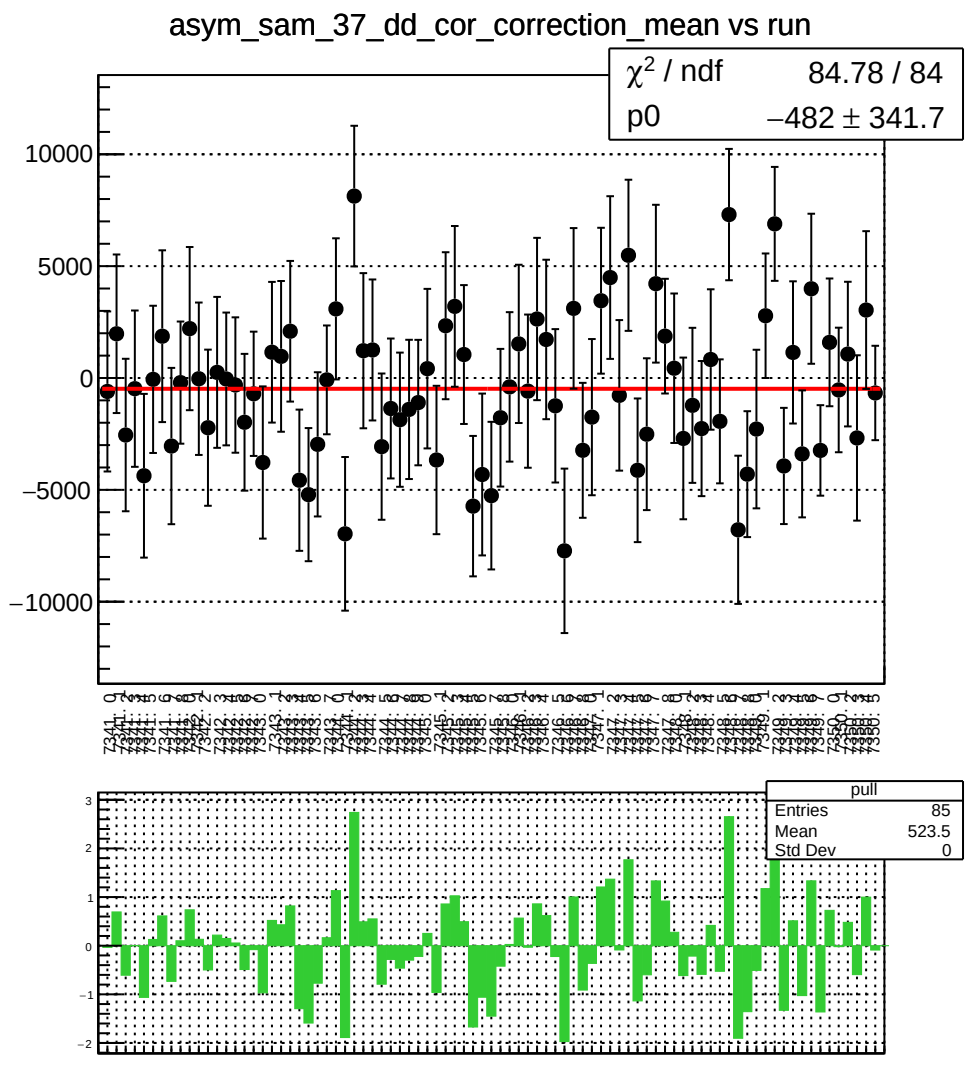

pull1D
Entries 85
Mean 0.004113
Std Dev 0.9987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

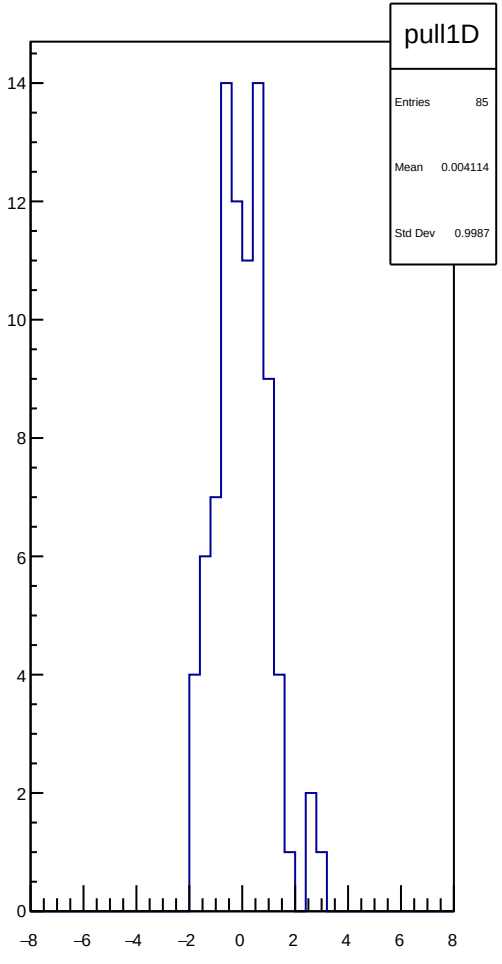

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.262e+04 / 84
p0 305.9 ± 0.2416
360
340
320
300
280
260
240

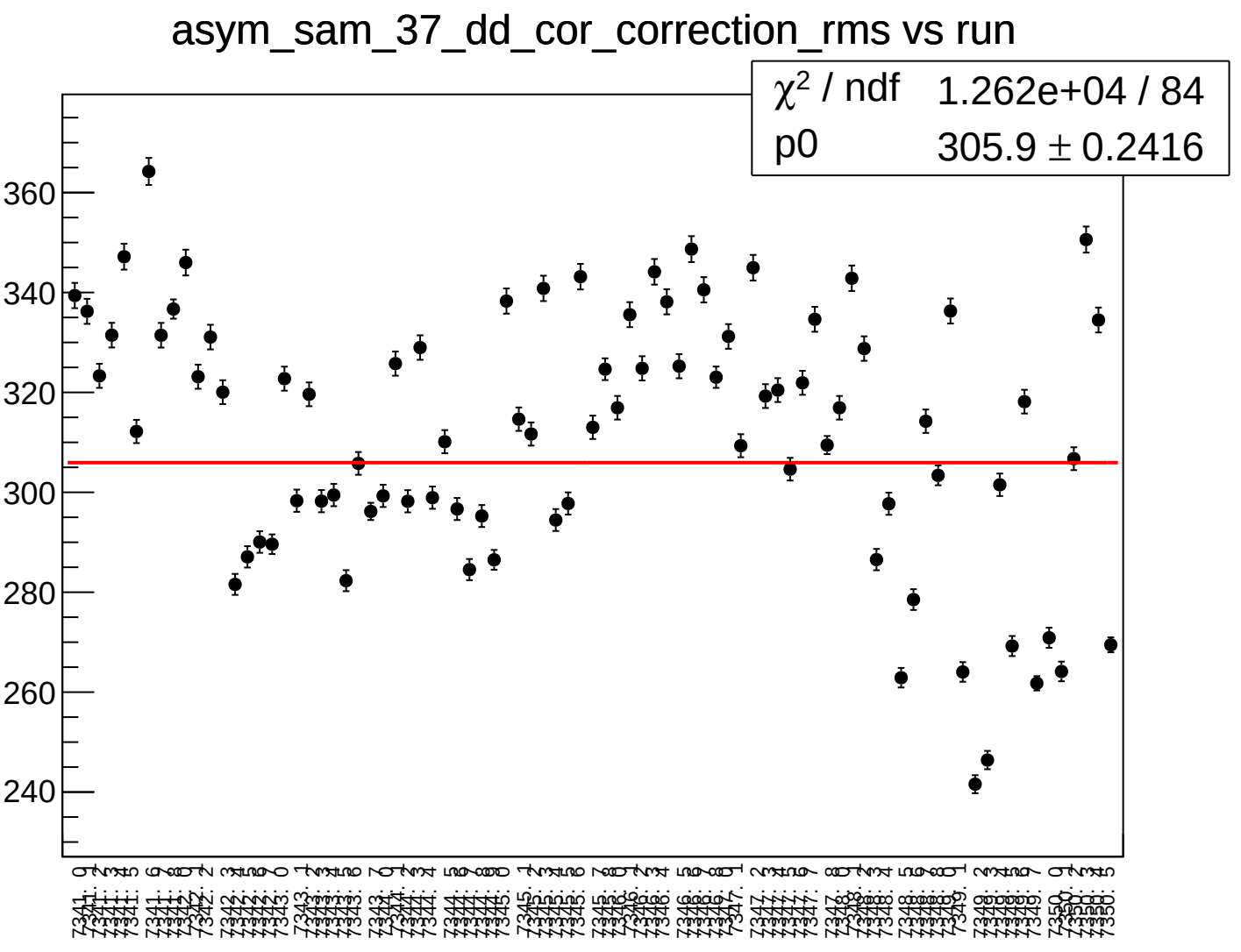

cor_asym_sam_37_dd_mean vs run
χ² / ndf 81.38 / 84
p0 15.99 ± 59.47
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 197.5
Std Dev 0
2
1
0
−1
−2
−3
−4

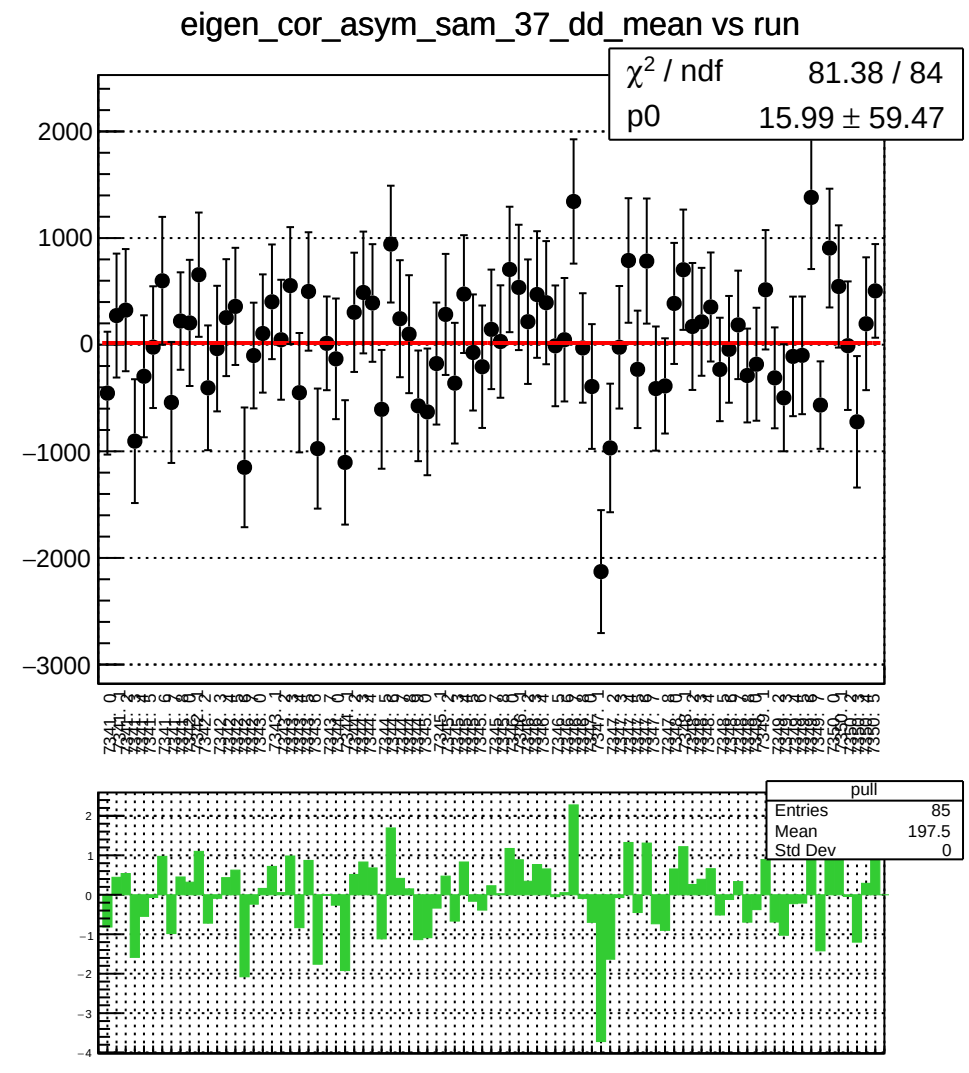

pull1D
Entries 85
Mean 0.01182
Std Dev 0.9784
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

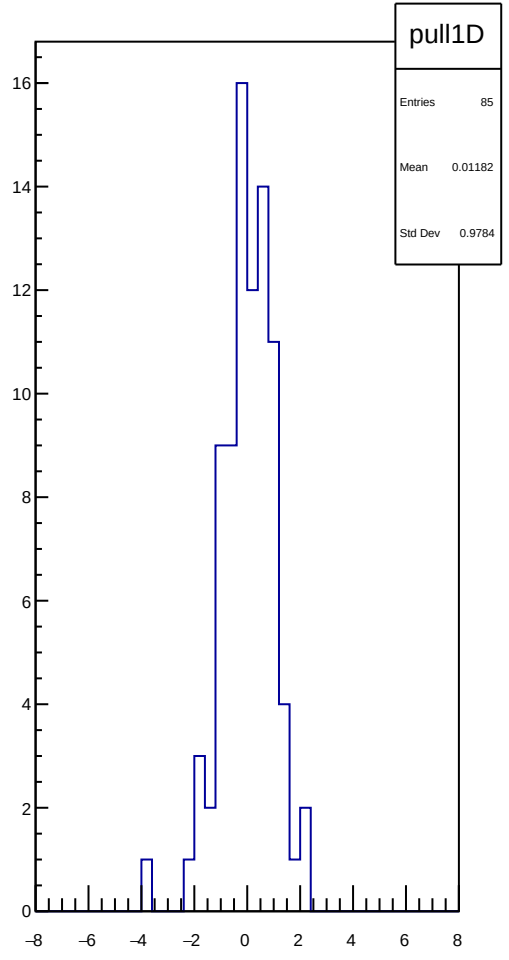

cor_asym_sam_37_dd_rms vs run
χ² / ndf 4756 / 84
p0 53.38 ± 0.04205
65
60
55
50
45

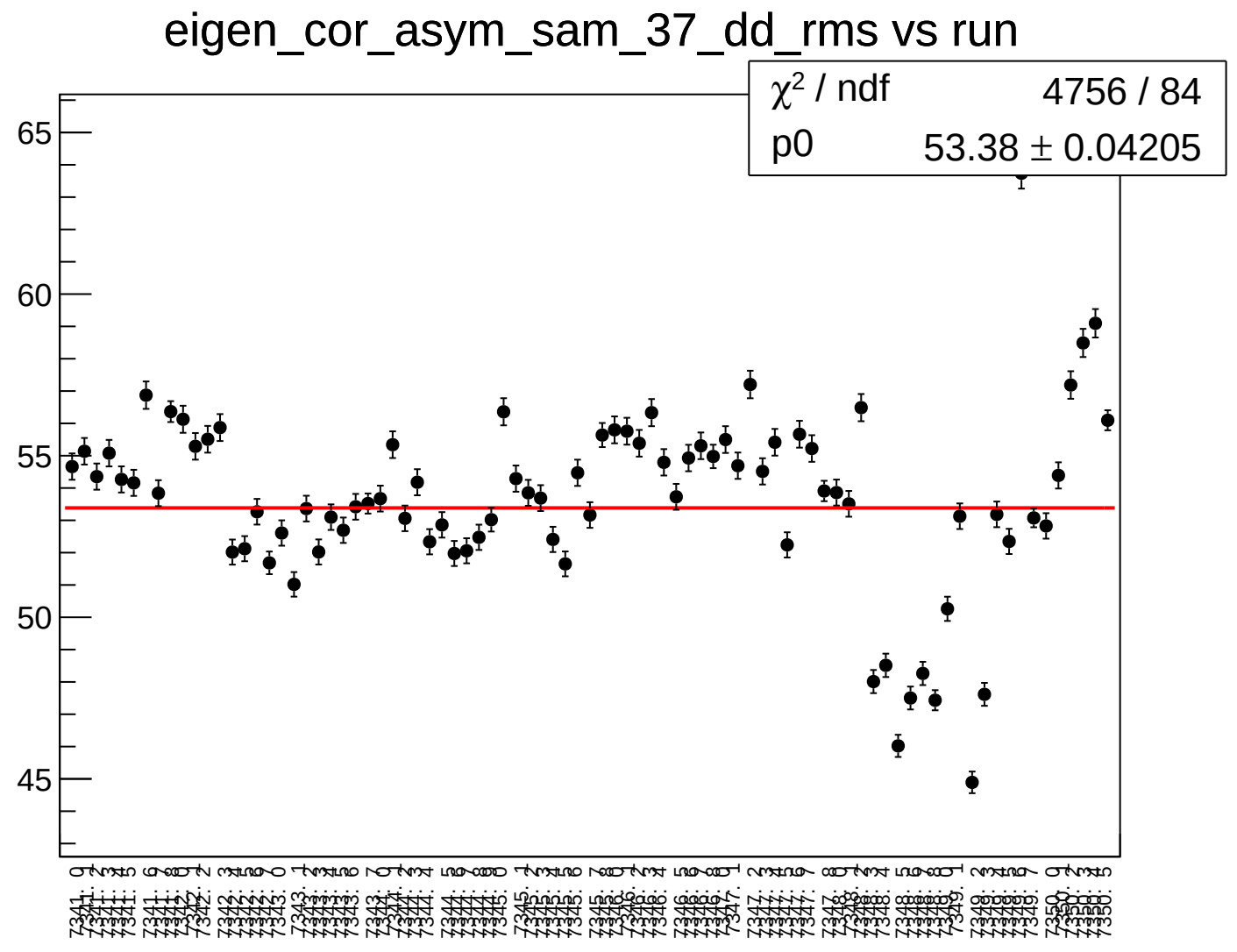

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 84.78 / 84
p0 −482 ± 341.7
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 523.5
Std Dev 0
3
2
1
0
−1
−2

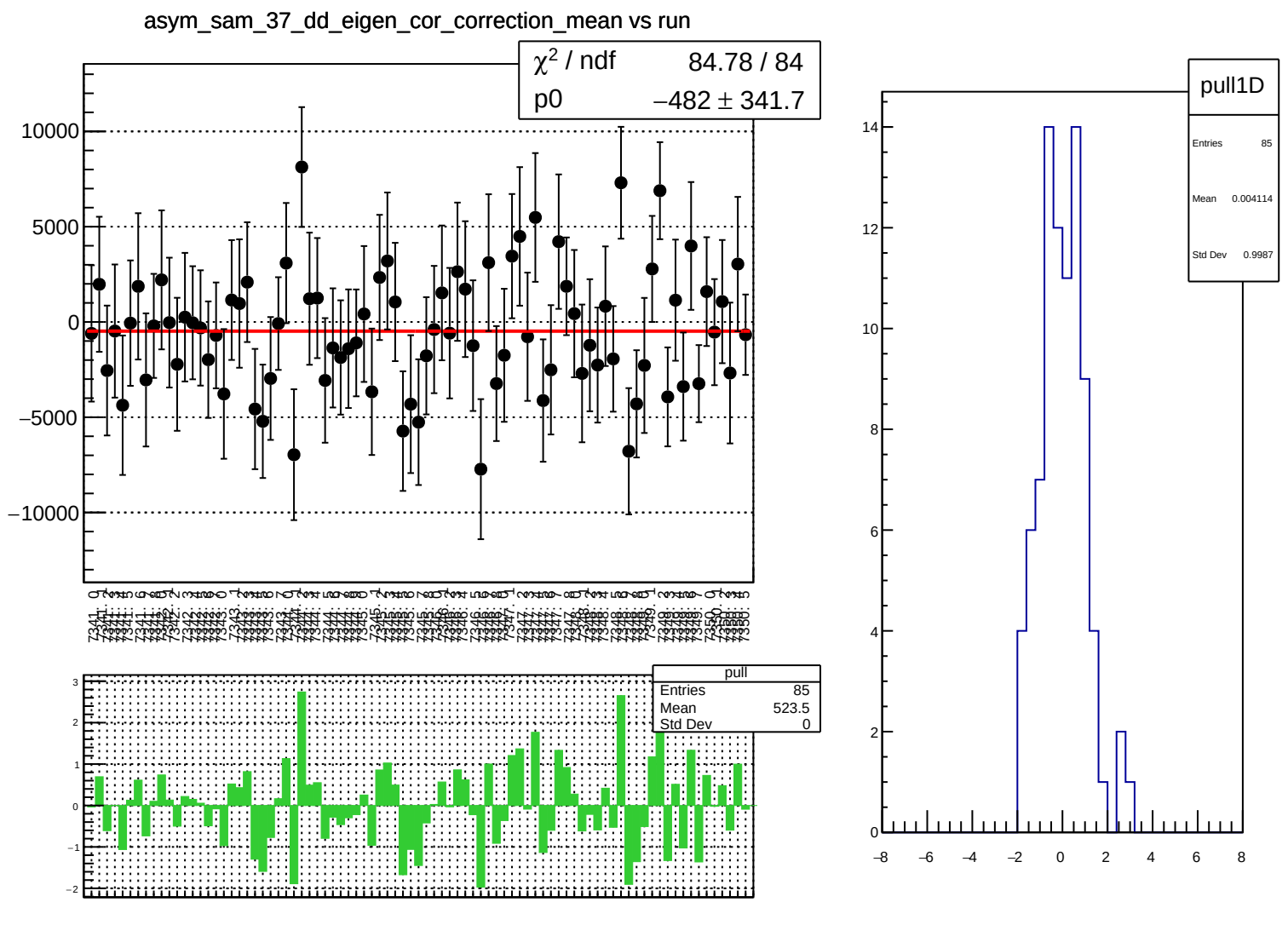

pull1D
Entries 85
Mean 0.004114
Std Dev 0.9987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

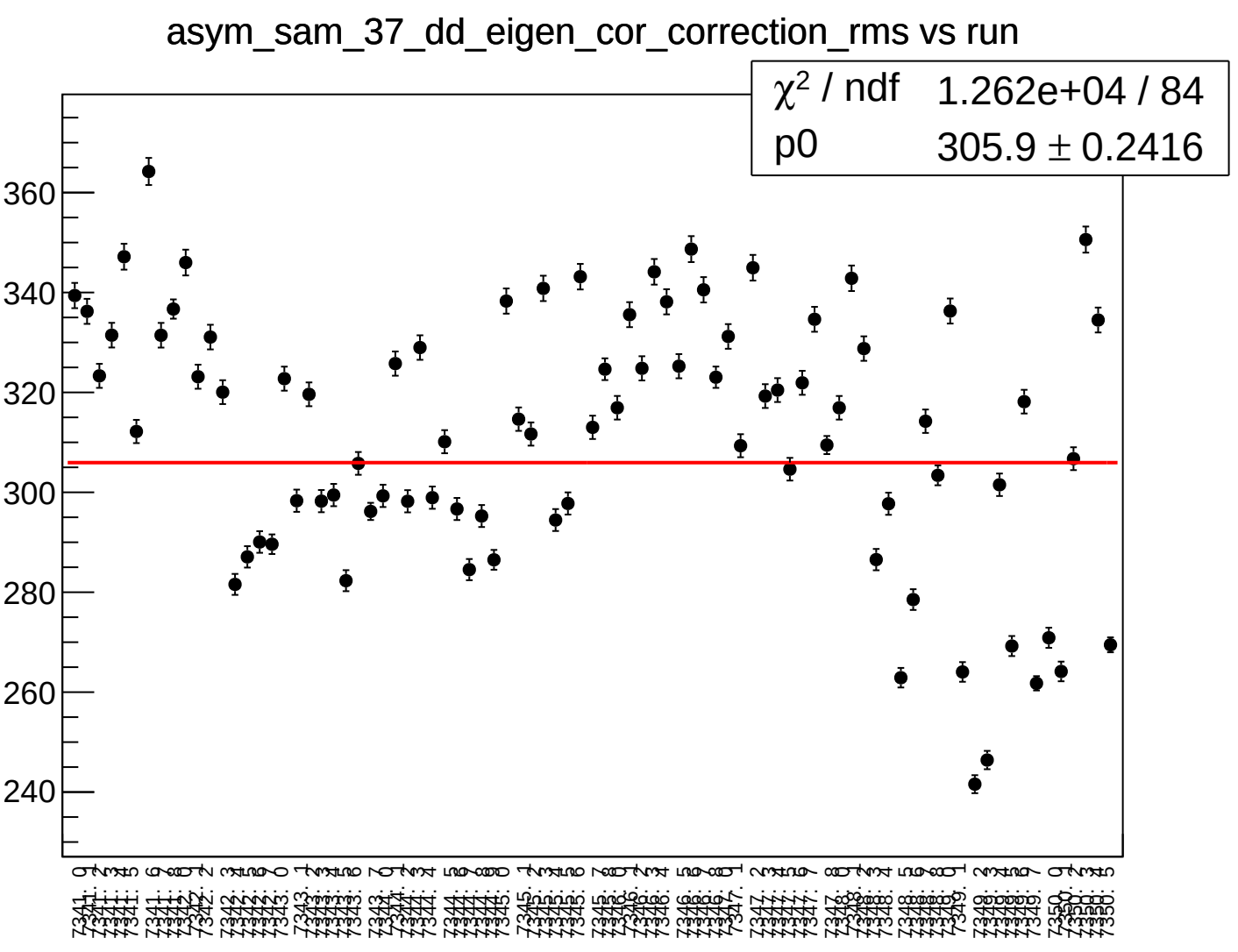

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.262e+04 / 84
p0 305.9 ± 0.2416
360
340
320
300
280
260
240

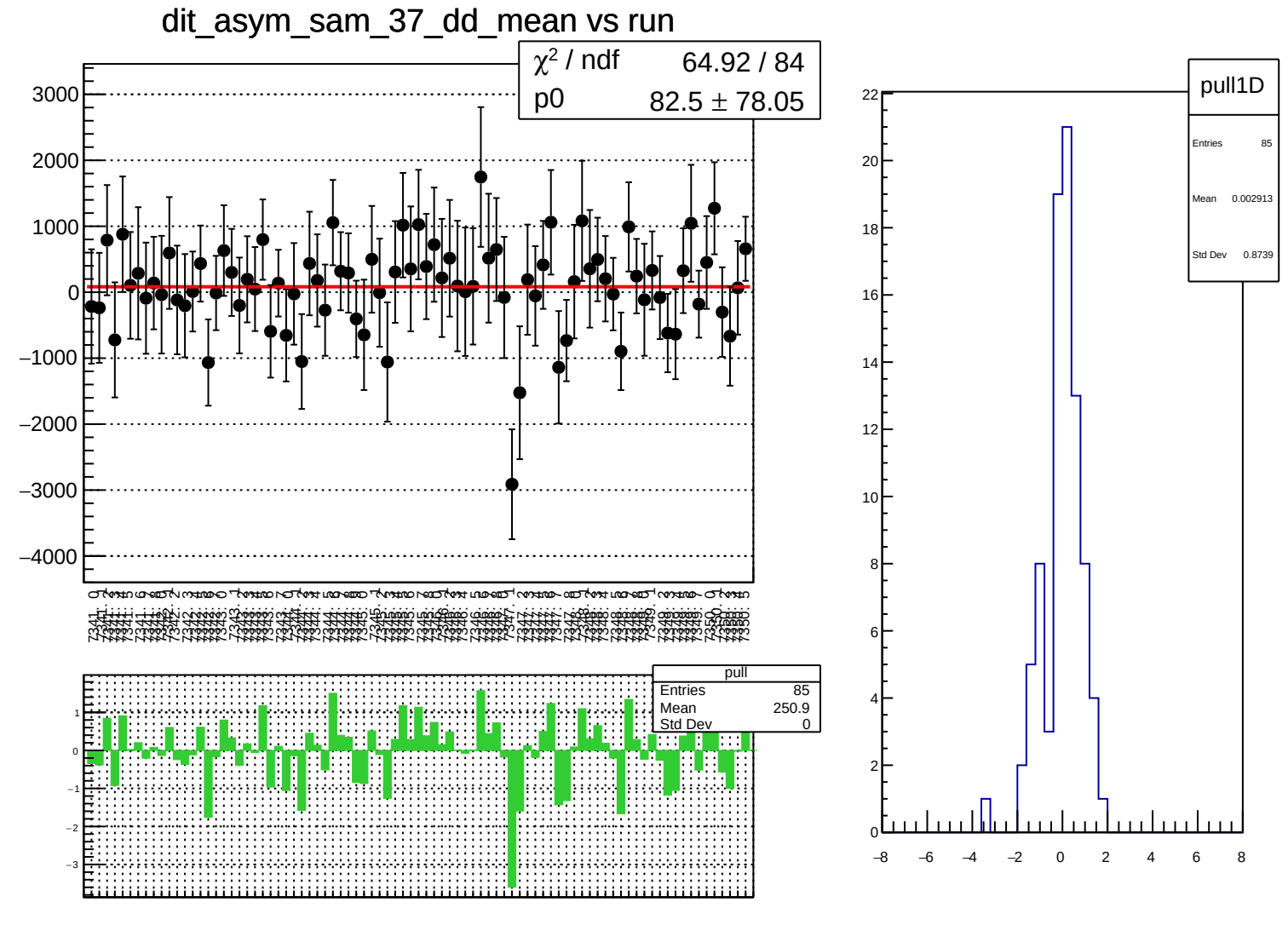

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 81.38 / 84
p0 15.99 ± 59.47
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 197.5
Std Dev 0
2
1
0
−1
−2
−3
−4

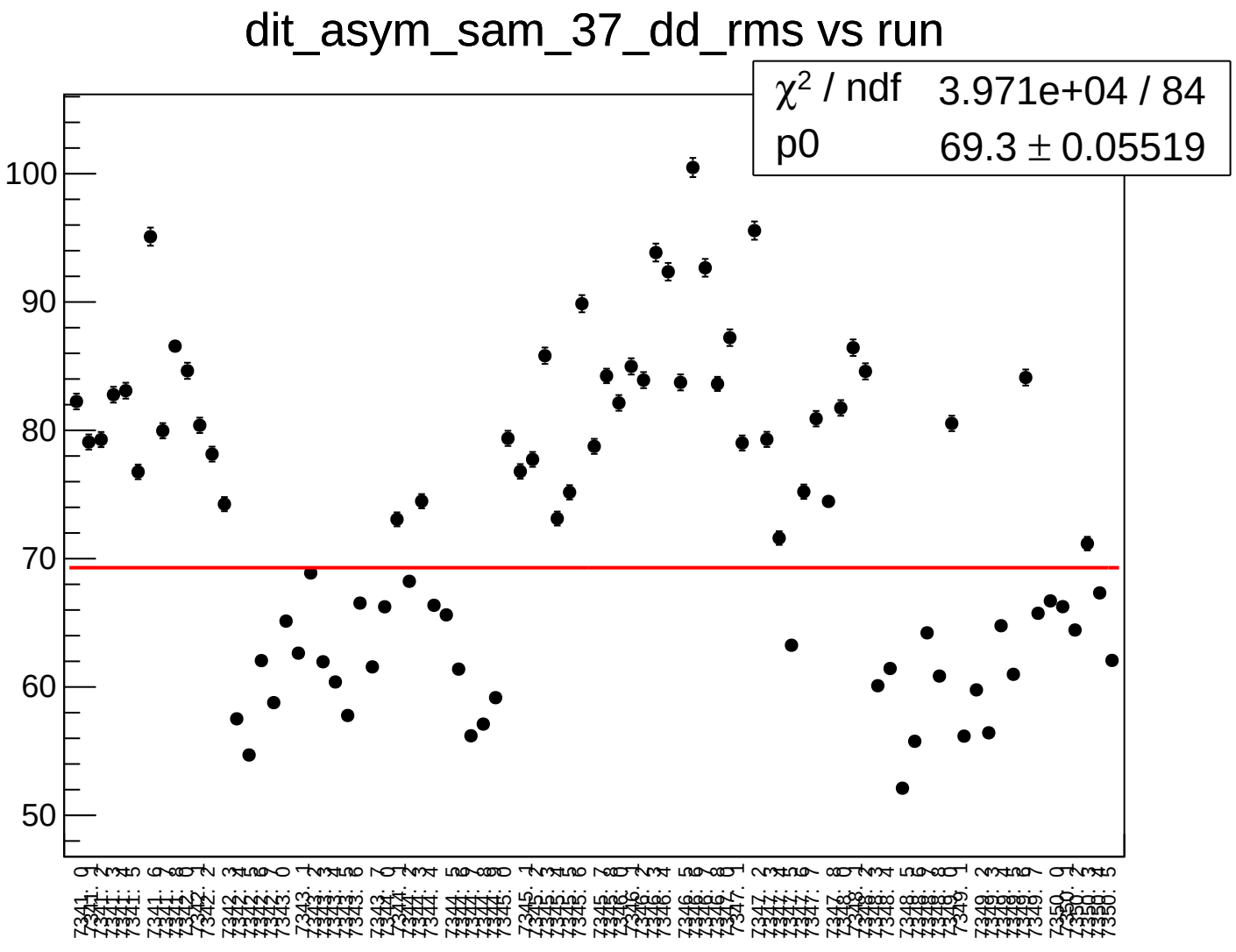

pull1D
Entries 85
Mean 0.01182
Std Dev 0.9784
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

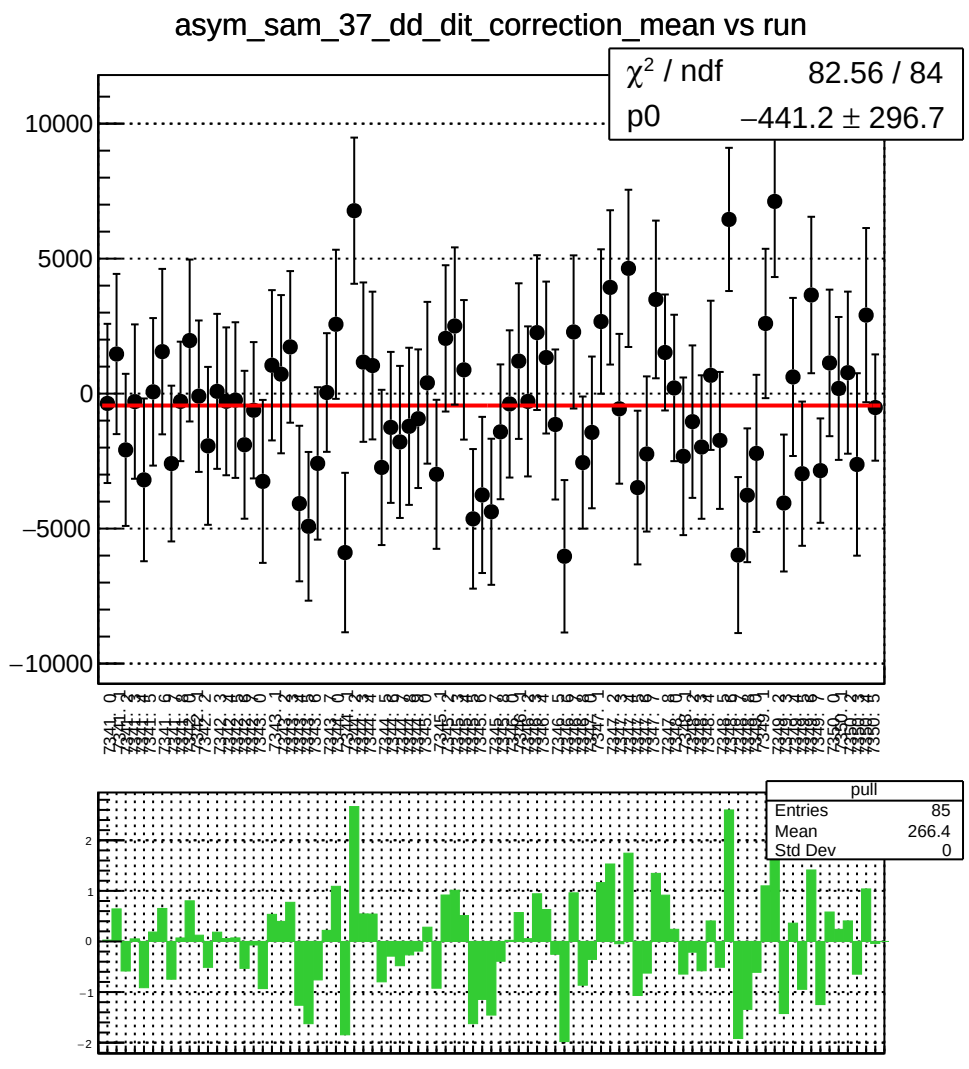

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 4756 / 84
p0 53.38 ± 0.04205
65
60
55
50
45

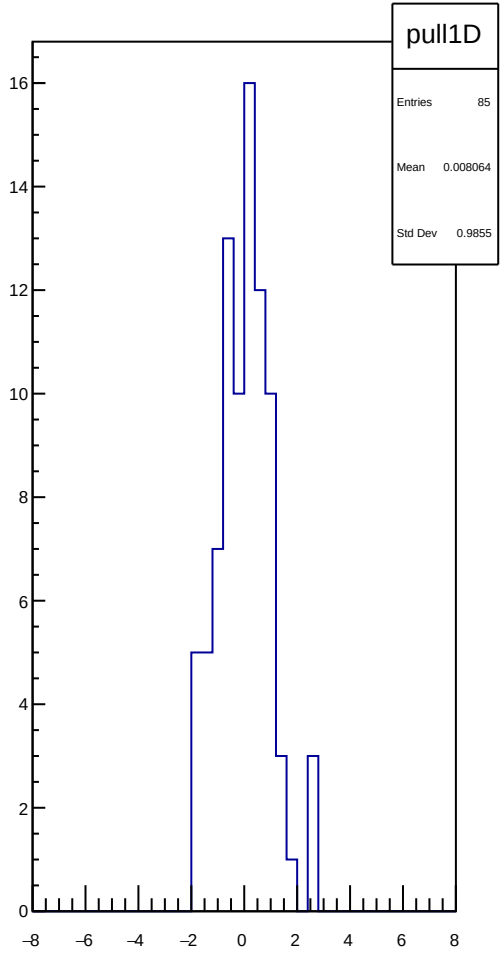

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.78 / 84
p0 −482 ± 341.7
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 523.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.004114
Std Dev 0.9987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

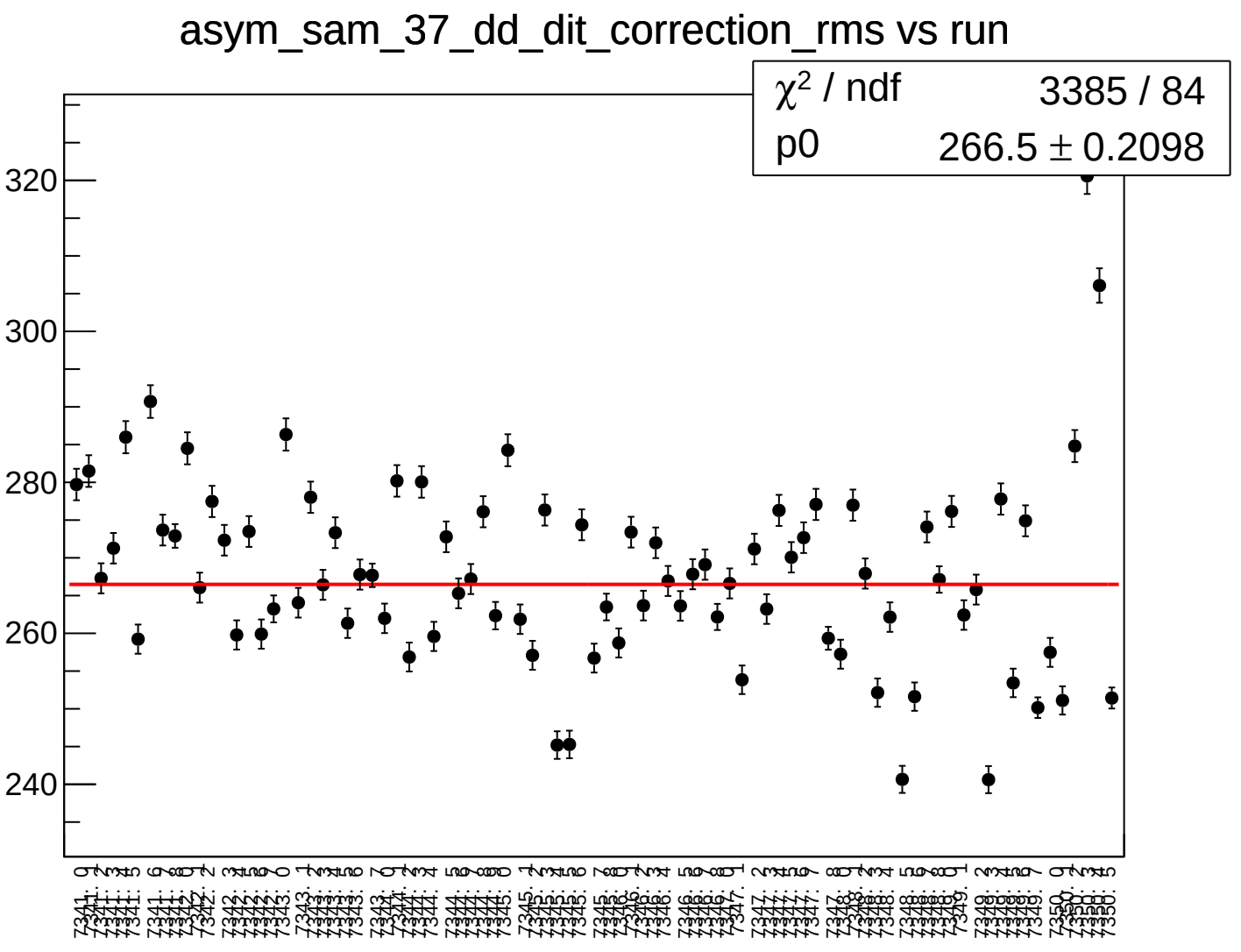

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.262e+04 / 84
p0 305.9 ± 0.2416
360
340
320
300
280
260
240

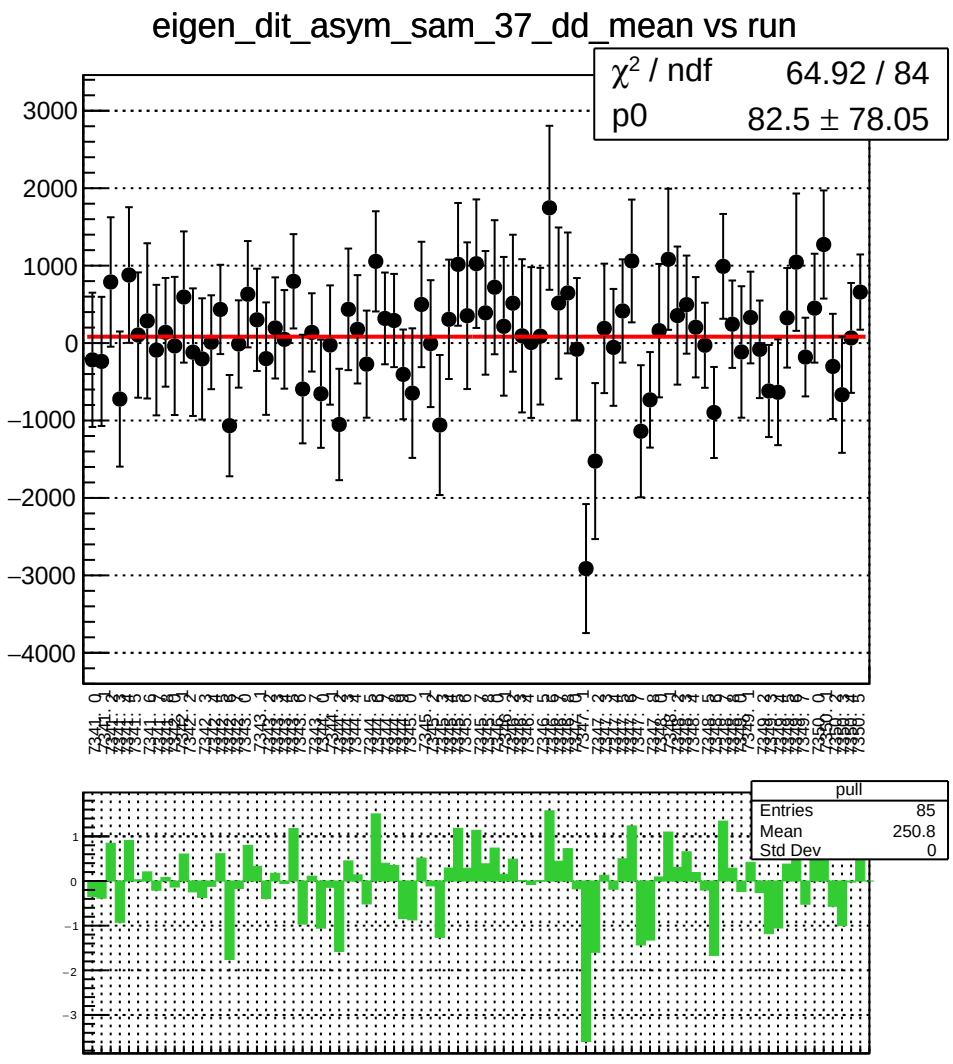

dit_asym_sam_37_dd_mean vs run
χ² / ndf 64.92 / 84
p0 82.5 ± 78.05
pull
Entries 85
Mean 250.9
Std Dev 0
pull1D
Entries 85
Mean 0.002913
Std Dev 0.8739

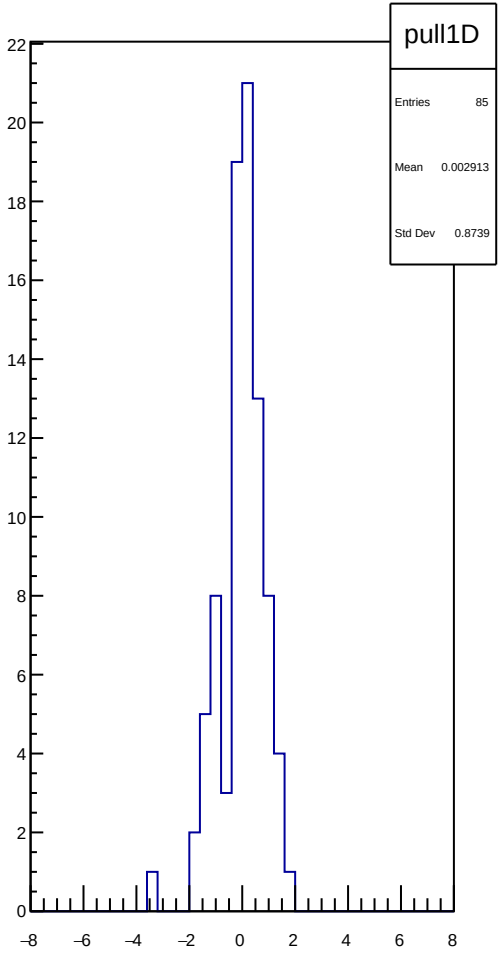

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.971e+04 / 84
p0 69.3 ± 0.05519
100
90
80
70
60
50

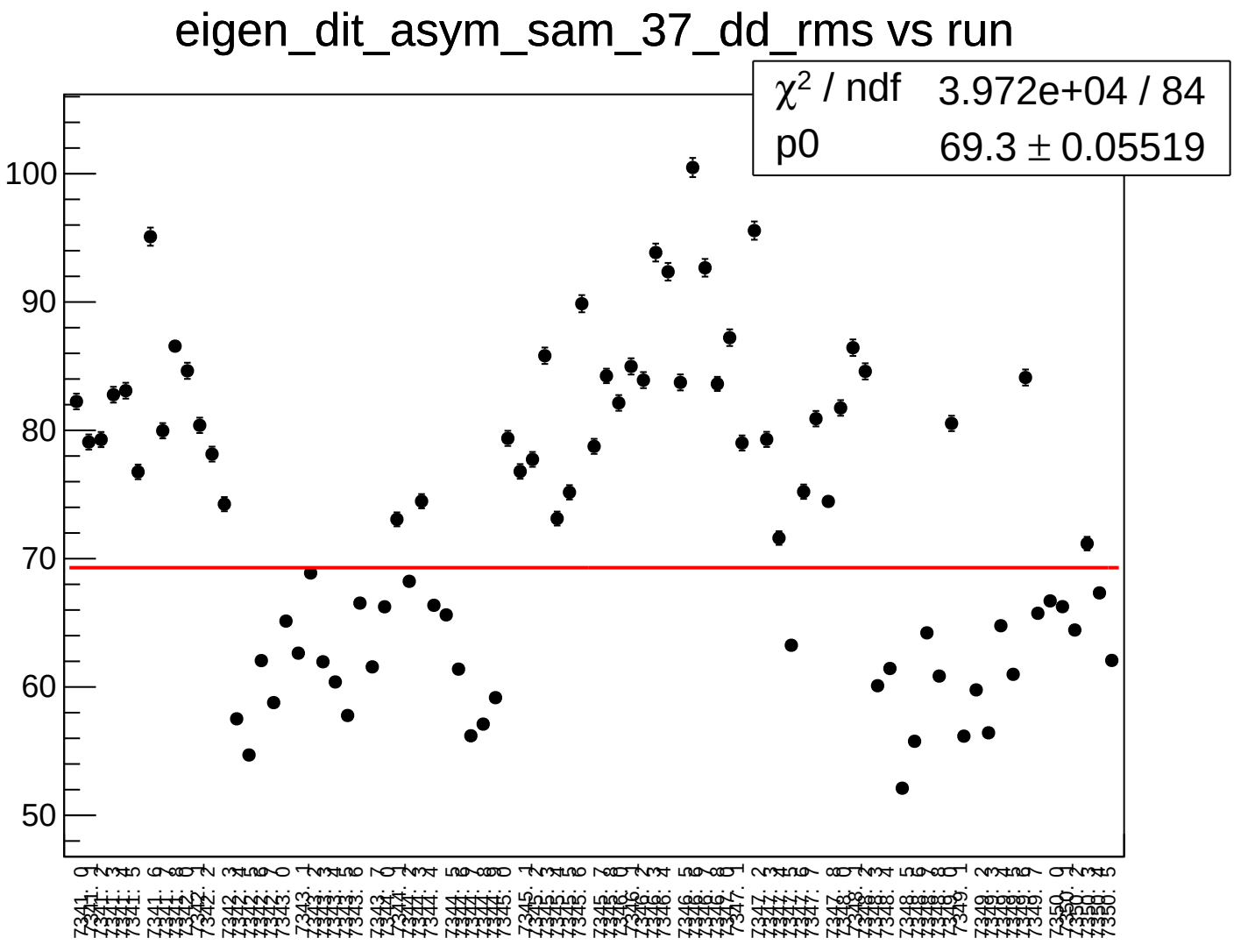

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 82.56 / 84
p0 −441.2 ± 296.7
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 266.4
Std Dev 0
2
1
0
−1
−2

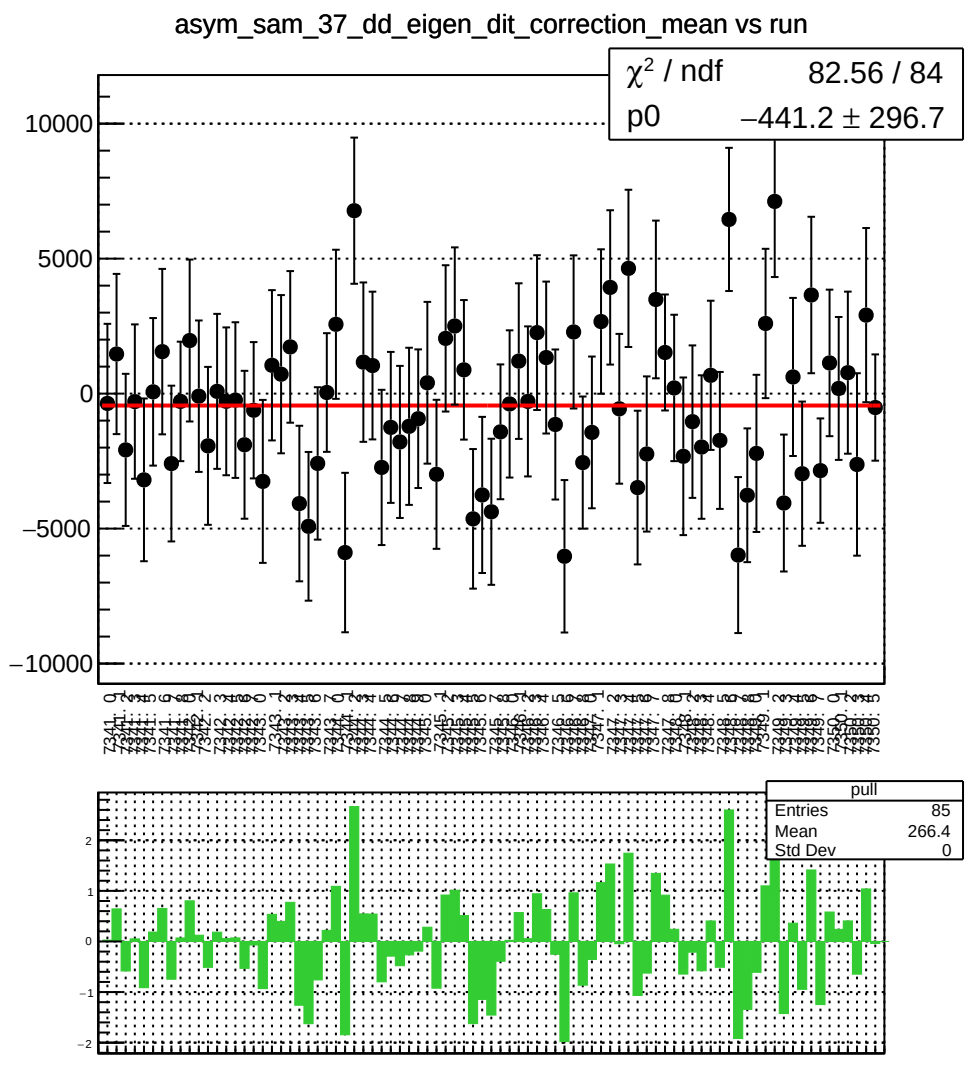

pull1D
Entries 85
Mean 0.008064
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

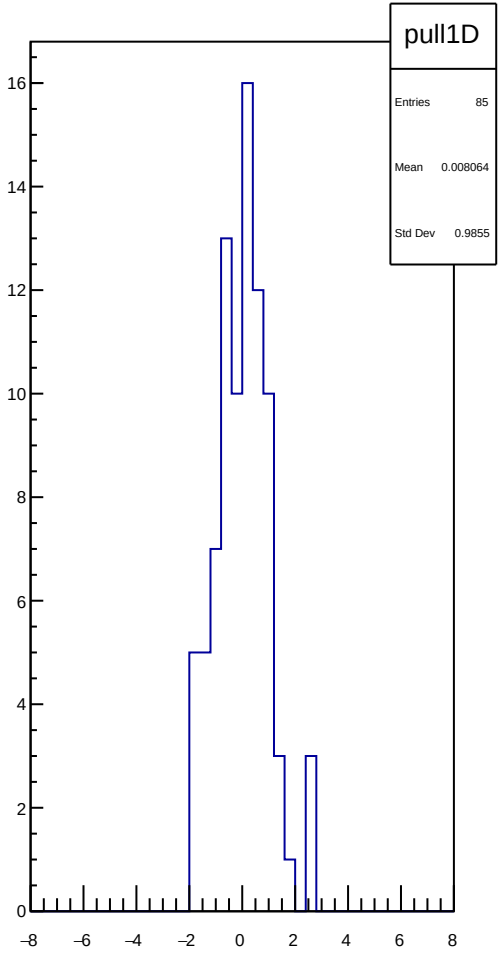

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 3385 / 84
p0 266.5 ± 0.2098
320
300
280
260
240

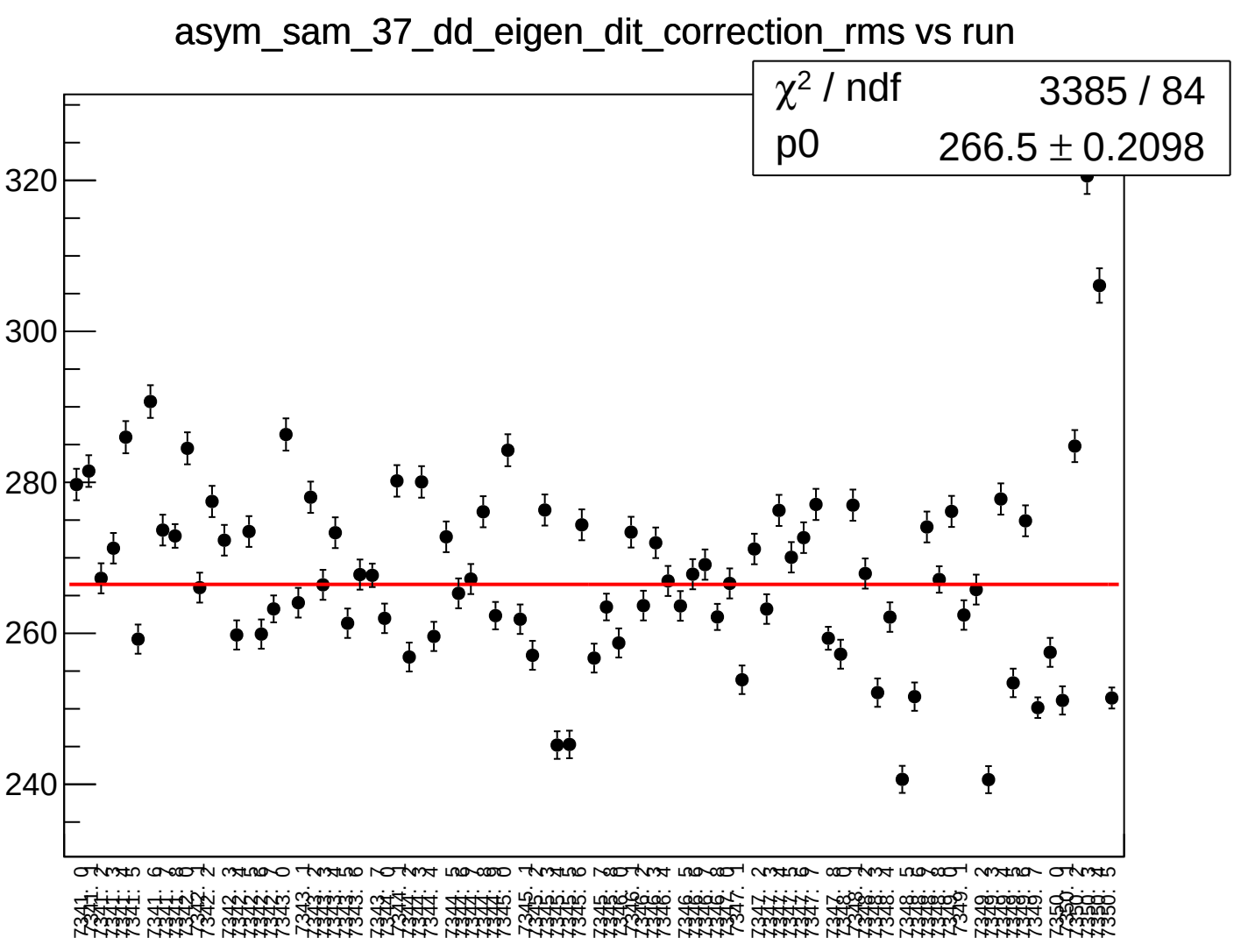

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 64.92 / 84
p0 82.5 ± 78.05
pull
Entries 85
Mean 250.8
Std Dev 0

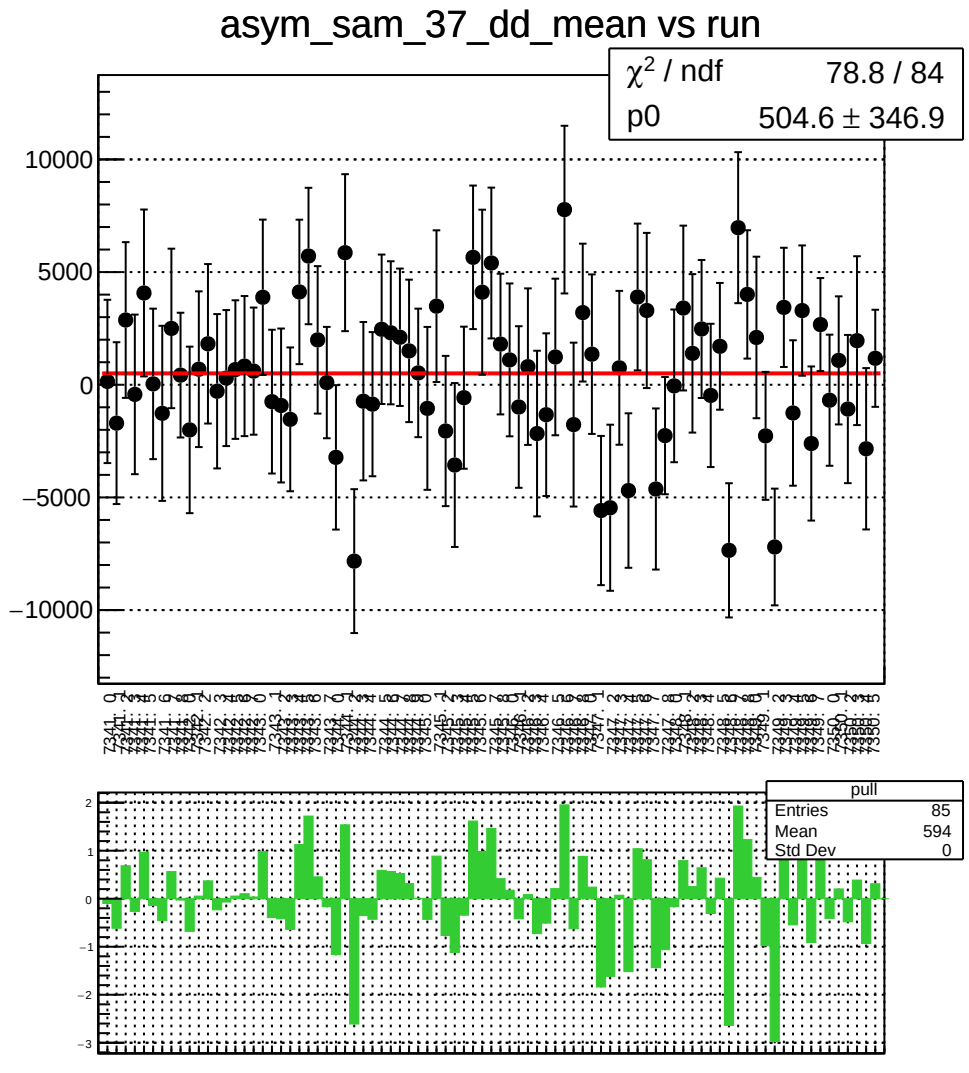

pull1D
Entries 85
Mean 0.002913
Std Dev 0.8739

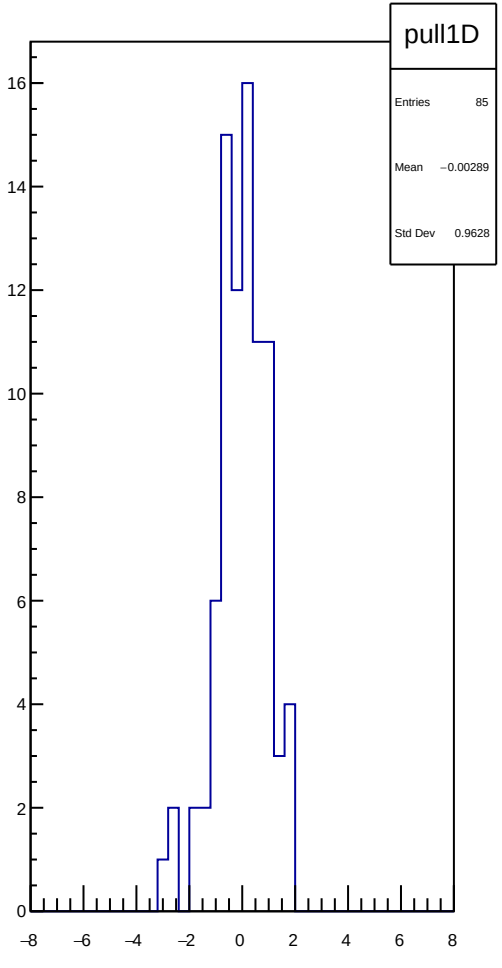

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.972e+04 / 84
p0 69.3 ± 0.05519
100
90
80
70
60
50

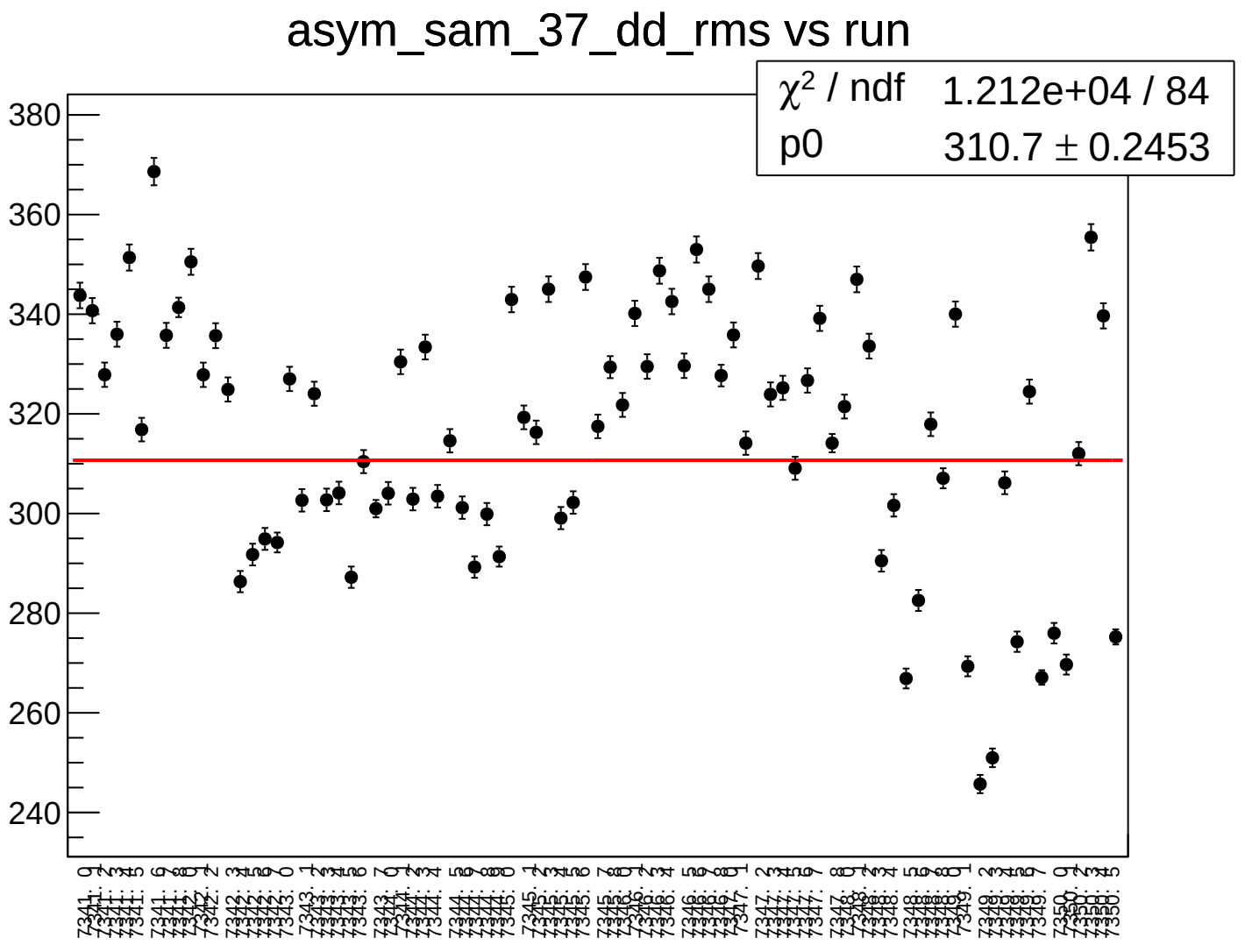

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.56 / 84
p0 −441.2 ± 296.7
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 266.4
Std Dev 0
2
1
0
−1
−2

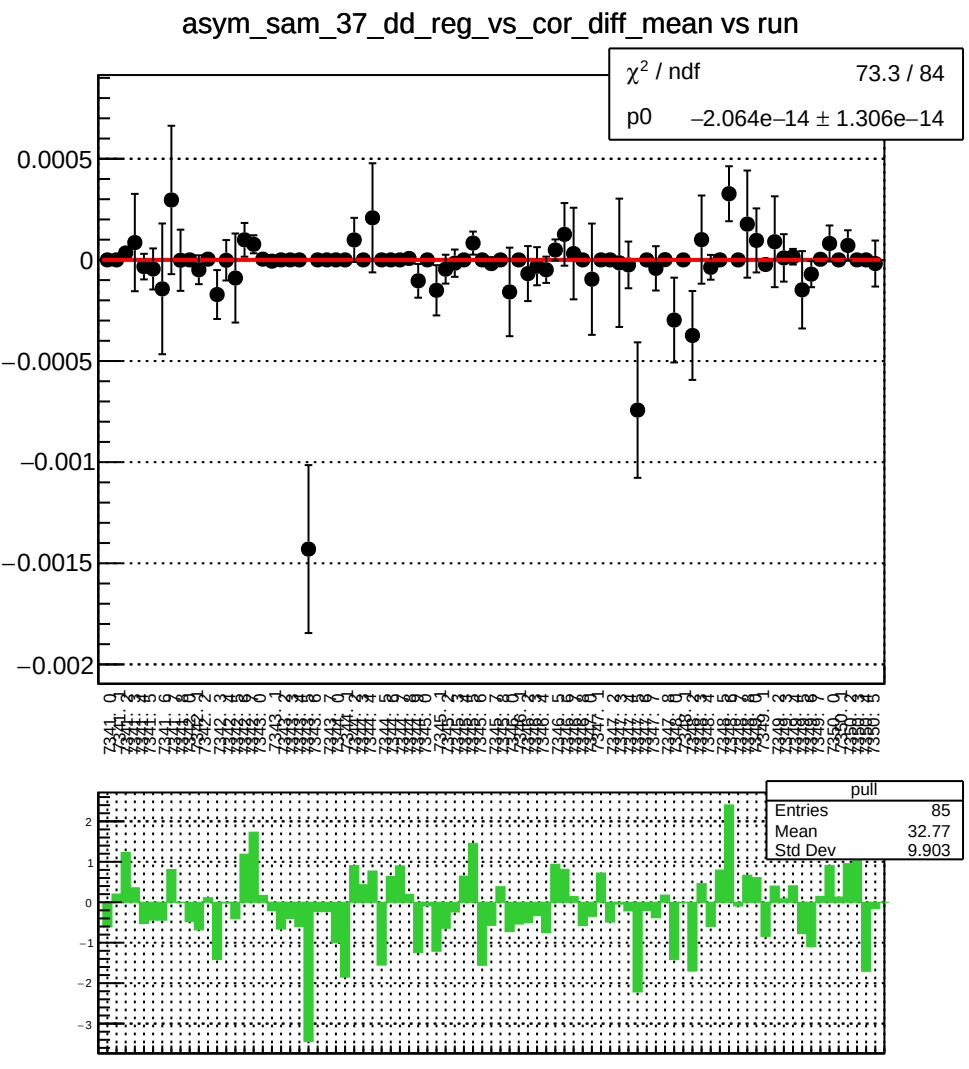

pull1D
Entries 85
Mean 0.008064
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

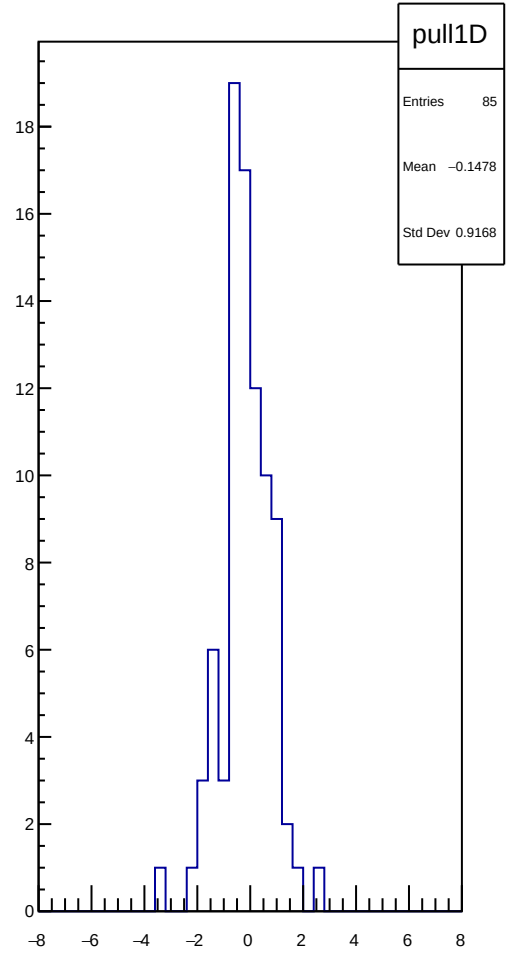

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3385 / 84
p0 266.5 ± 0.2098
320
300
280
260
240

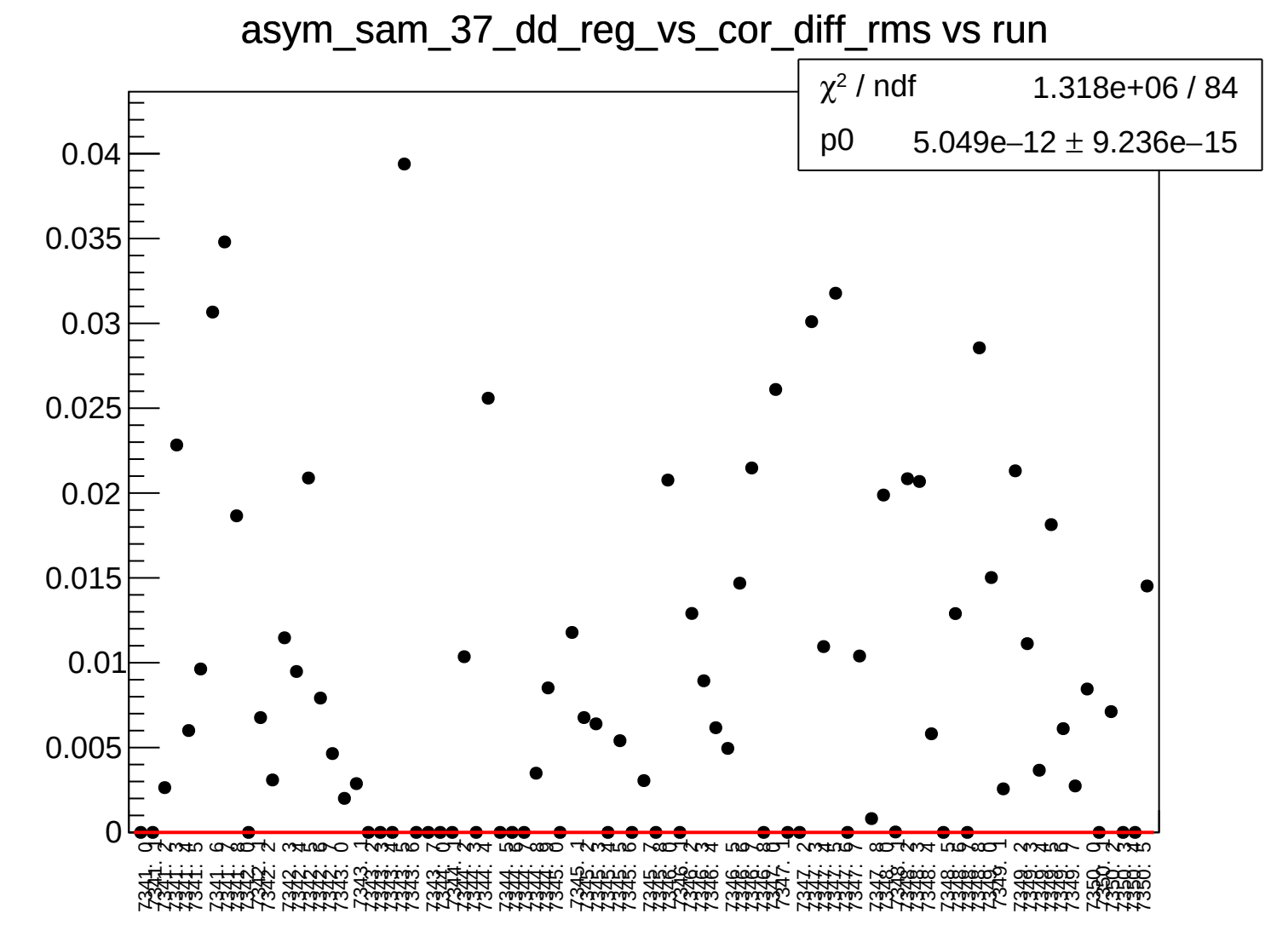

asym_sam_37_dd_mean vs run
χ² / ndf 78.8 / 84
p0 504.6 ± 346.9
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 594
Std Dev 0
2
1
0
−1
−2
−3

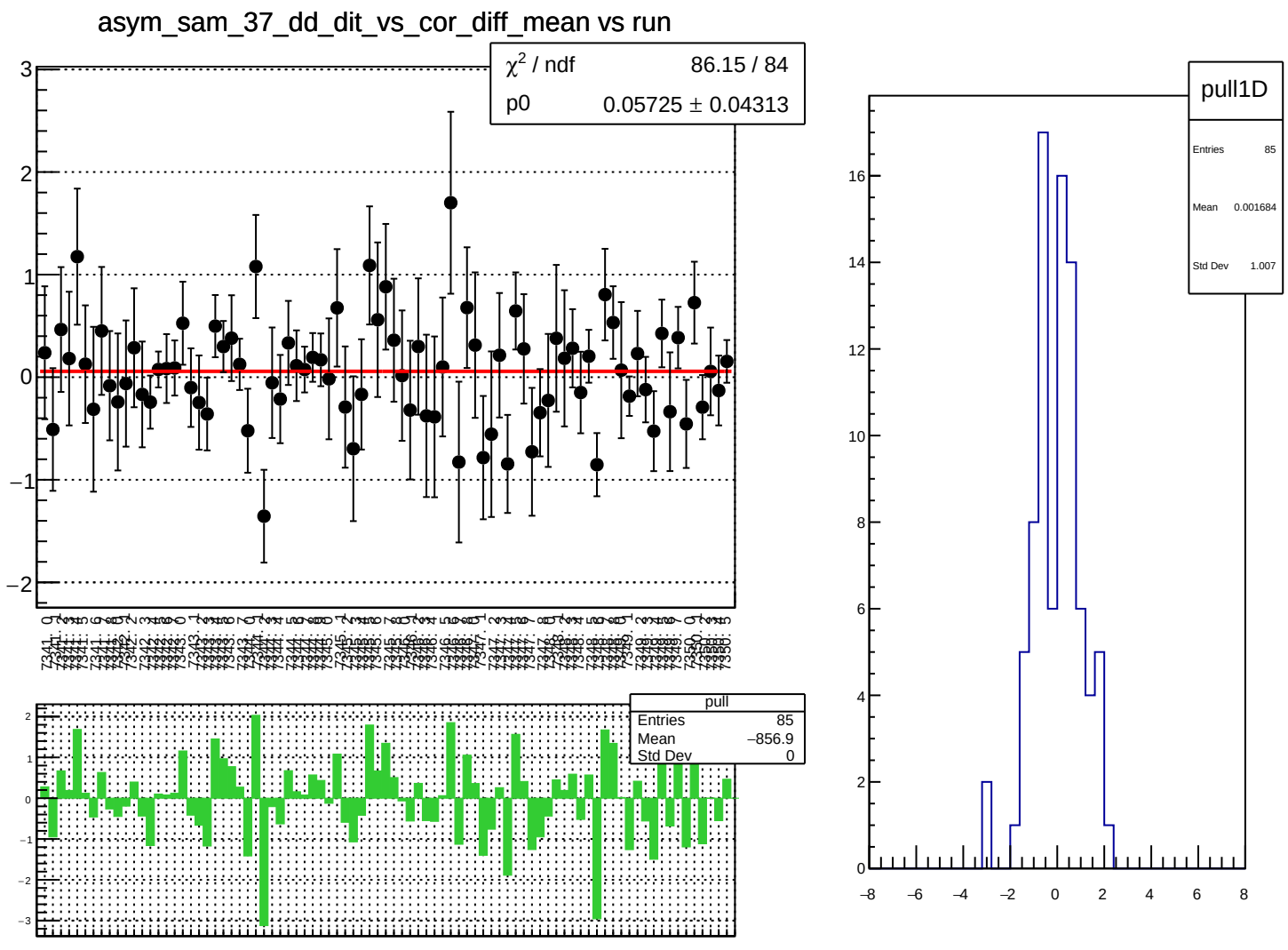

pull1D
Entries 85
Mean −0.00289
Std Dev 0.9628
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

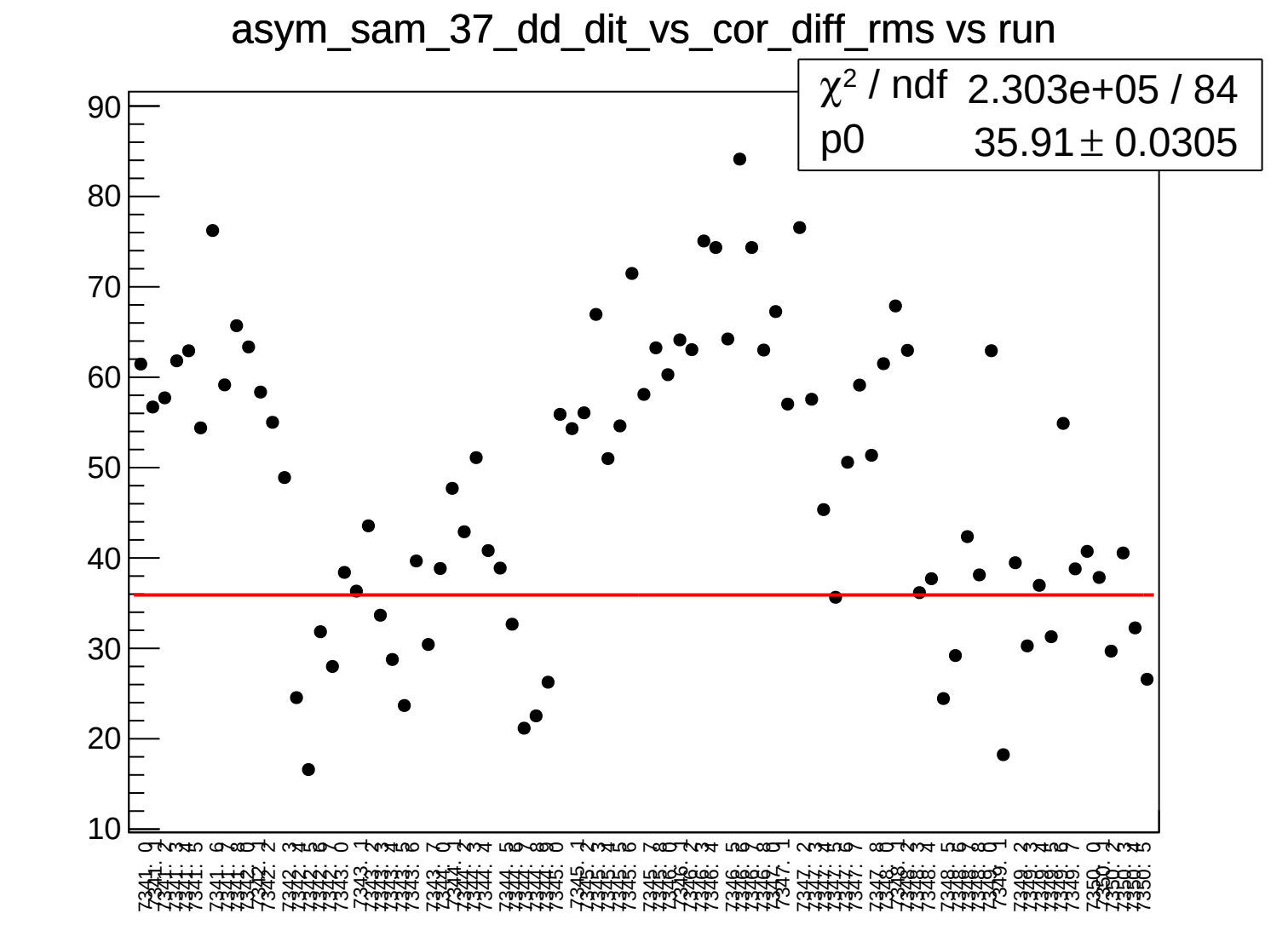

asym_sam_37_dd_rms vs run
χ² / ndf 1.212e+04 / 84
p0 310.7 ± 0.2453
380
360
340
320
300
280
260
240

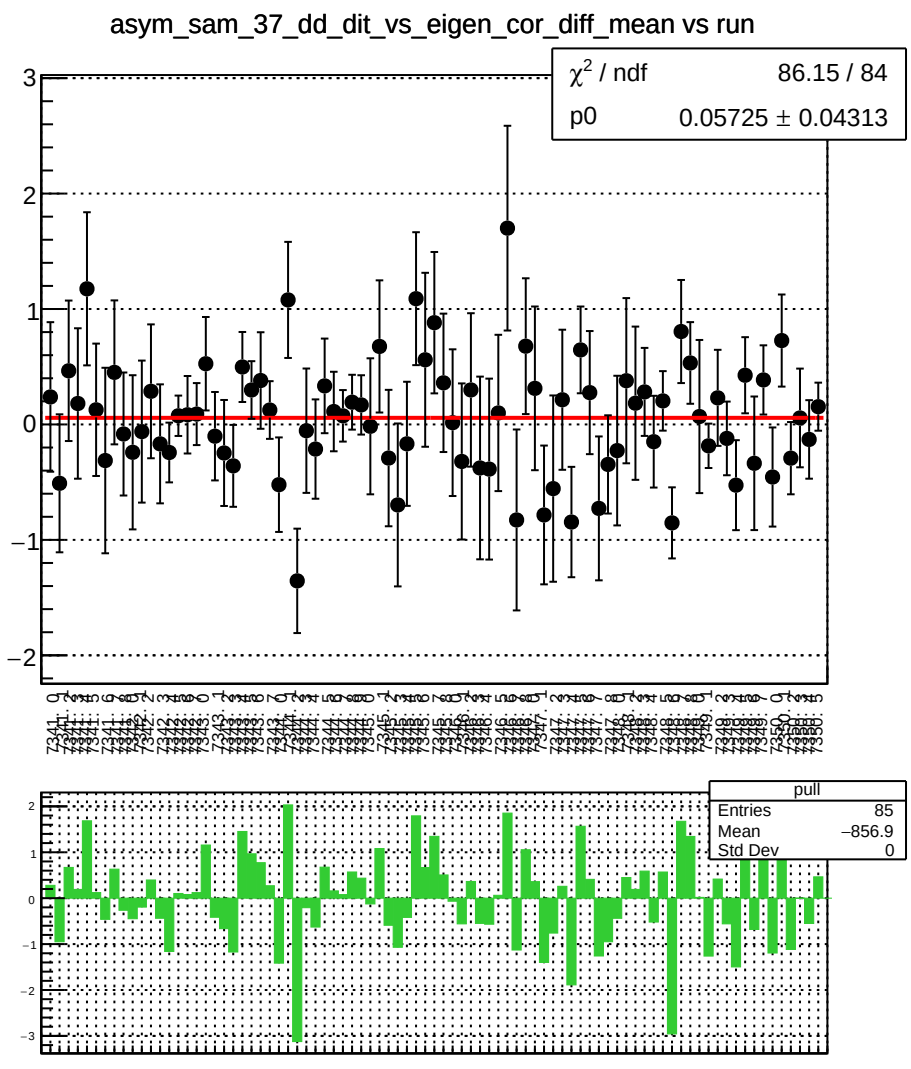

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.3 / 84
p0 −2.064e−14 ± 1.306e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 85
Mean 32.77
Std Dev 9.903
2
1
0
−1
−2
−3

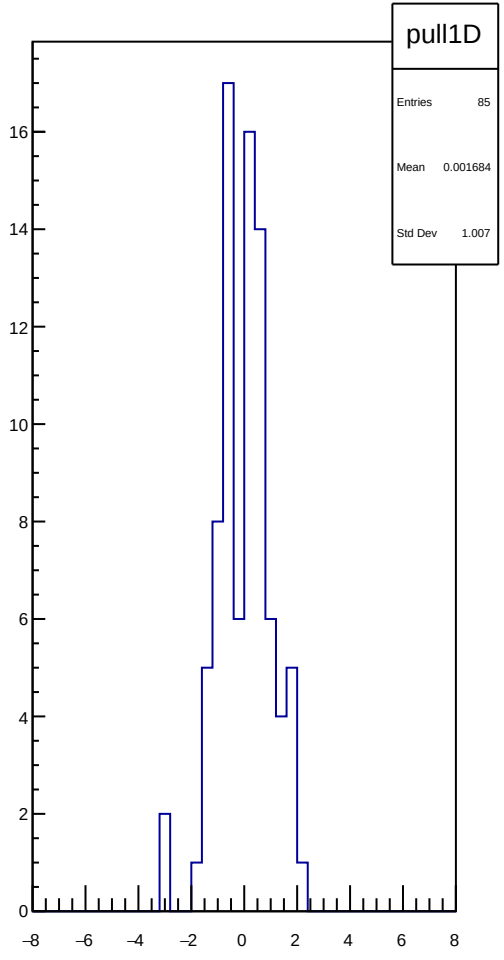

pull1D
Entries 85
Mean −0.1478
Std Dev 0.9168
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

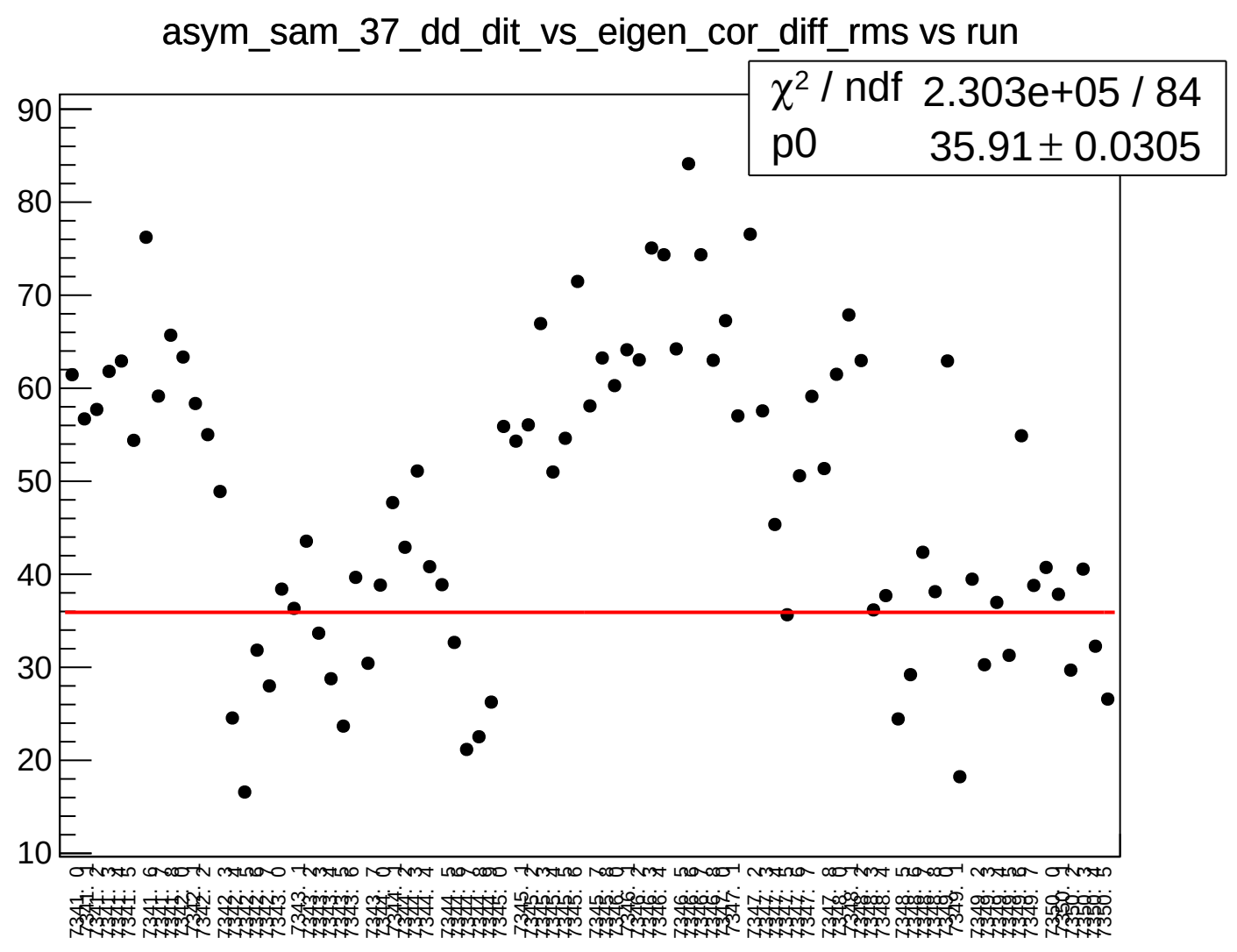

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.318e+06 / 84
p0 5.049e−12 ± 9.236e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

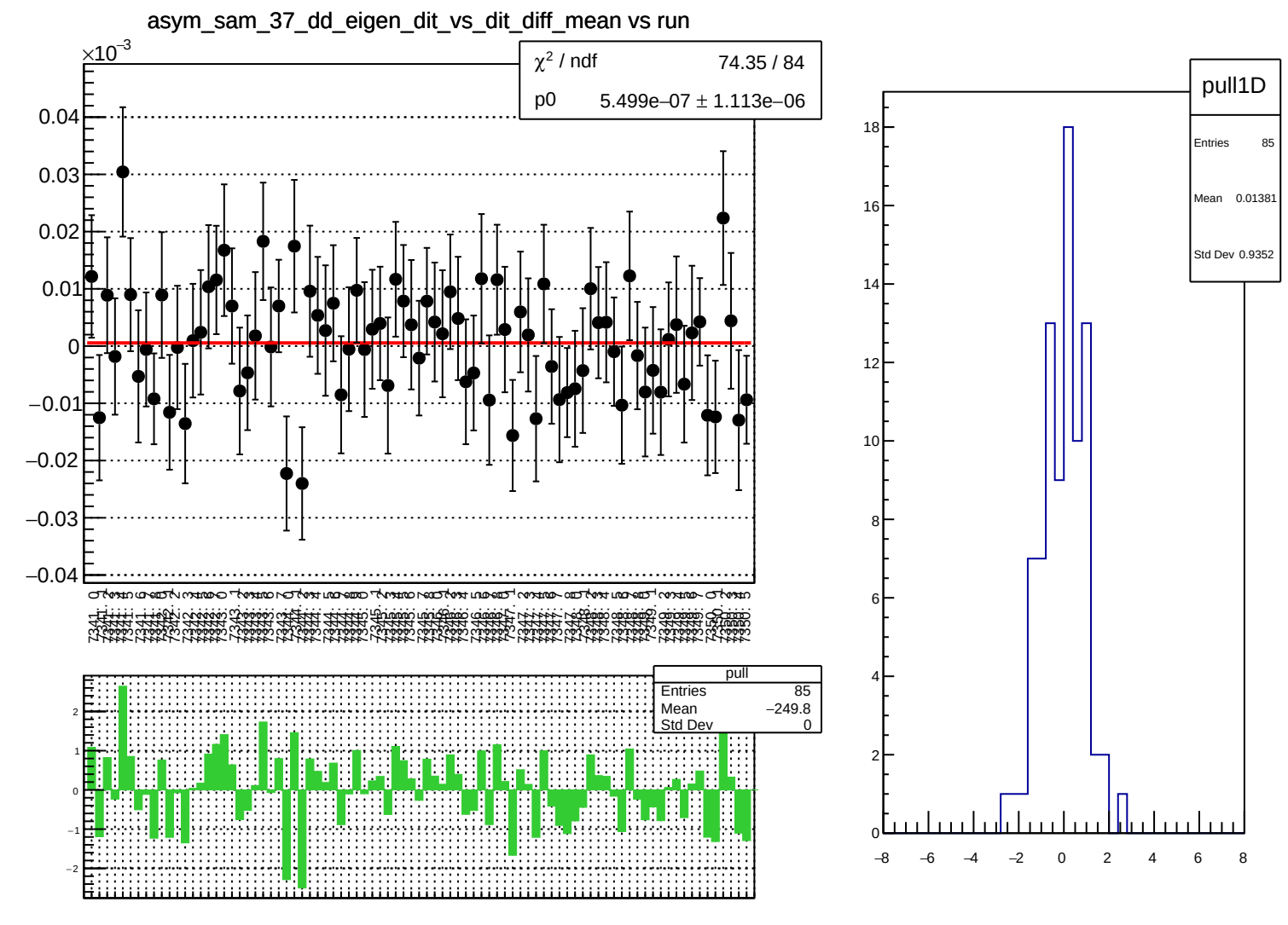

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.15 / 84
p0 0.05725 ± 0.04313
pull
Entries 85
Mean −856.9
Std Dev 0
pull1D
Entries 85
Mean 0.001684
Std Dev 1.007

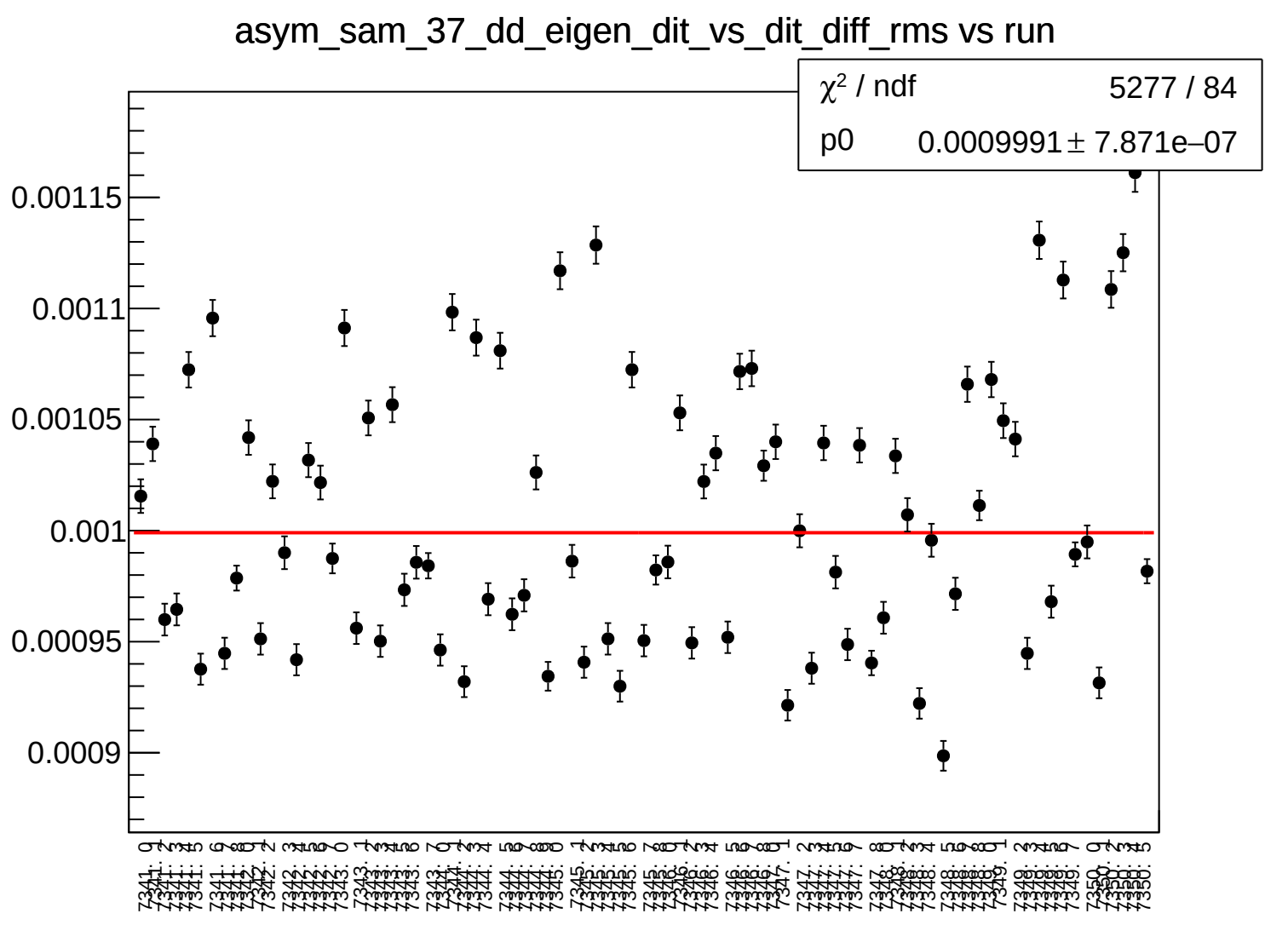

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.303e+05 / 84
p0 35.91 ± 0.0305
90
80
70
60
50
40
30
20
10

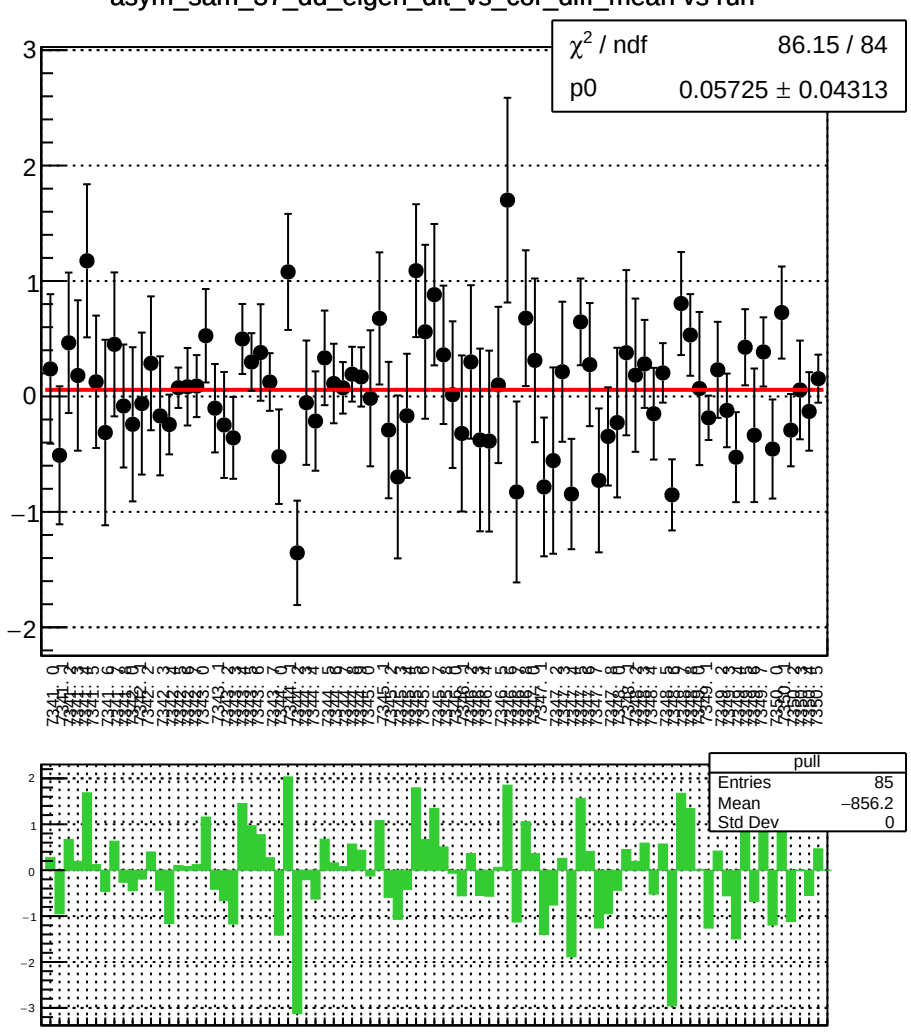

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.15 / 84
p0 0.05725 ± 0.04313
pull
Entries 85
Mean −856.9
Std Dev 0

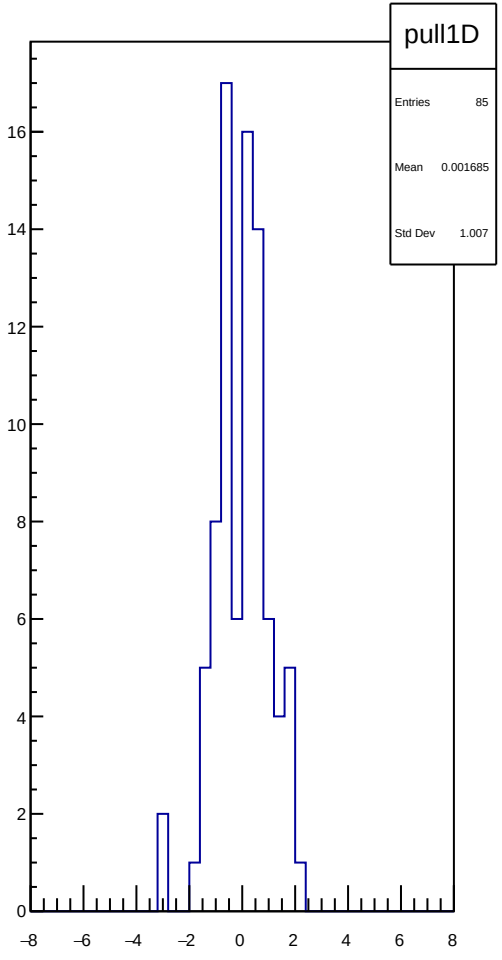

pull1D
Entries 85
Mean 0.001684
Std Dev 1.007

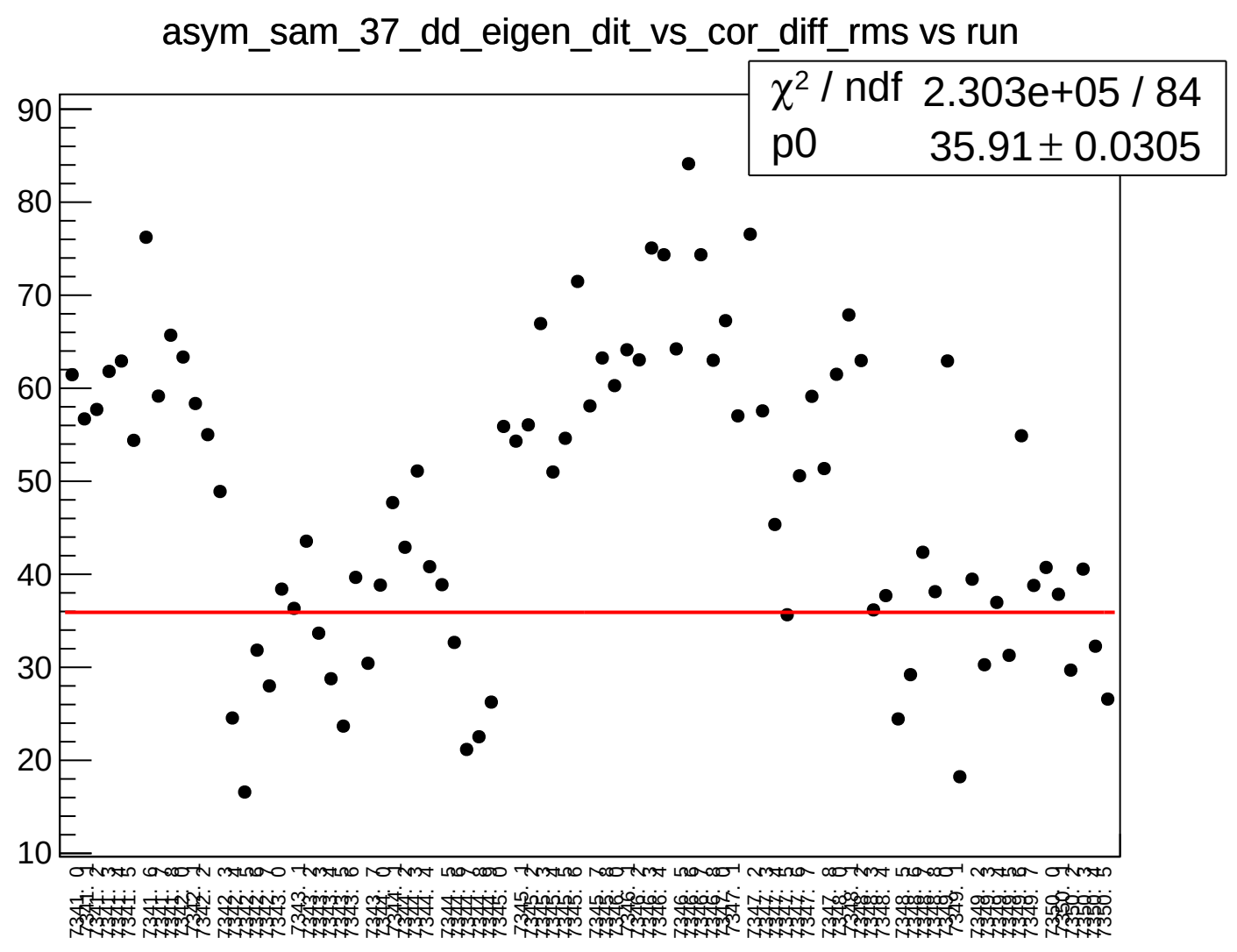

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.303e+05 / 84
p0 35.91 ± 0.0305
90
80
70
60
50
40
30
20
10

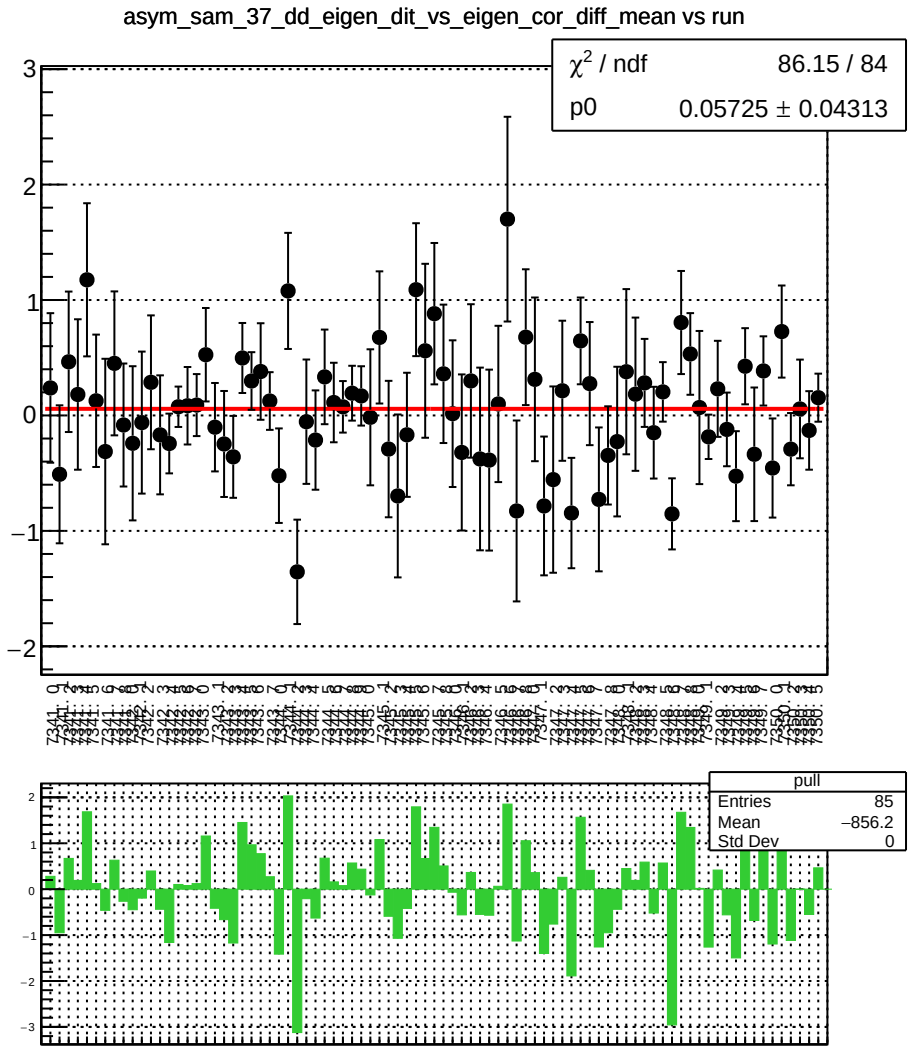

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.35 / 84
p0 5.499e−07 ± 1.113e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 85
Mean −249.8
Std Dev 0
pull1D
Entries 85
Mean 0.01381
Std Dev 0.9352

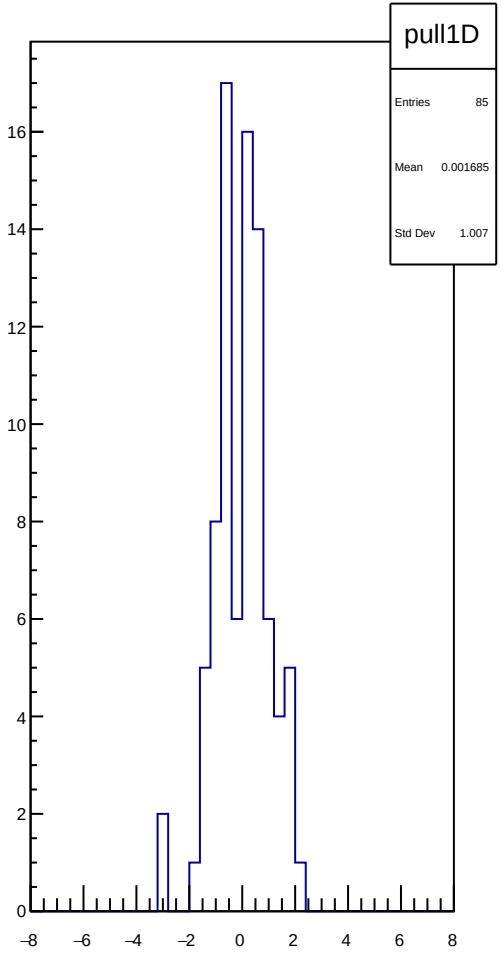

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5277 / 84
p0 0.0009991 ± 7.871e–07
0.00115
0.0011
0.00105
0.001
0.00095
0.0009

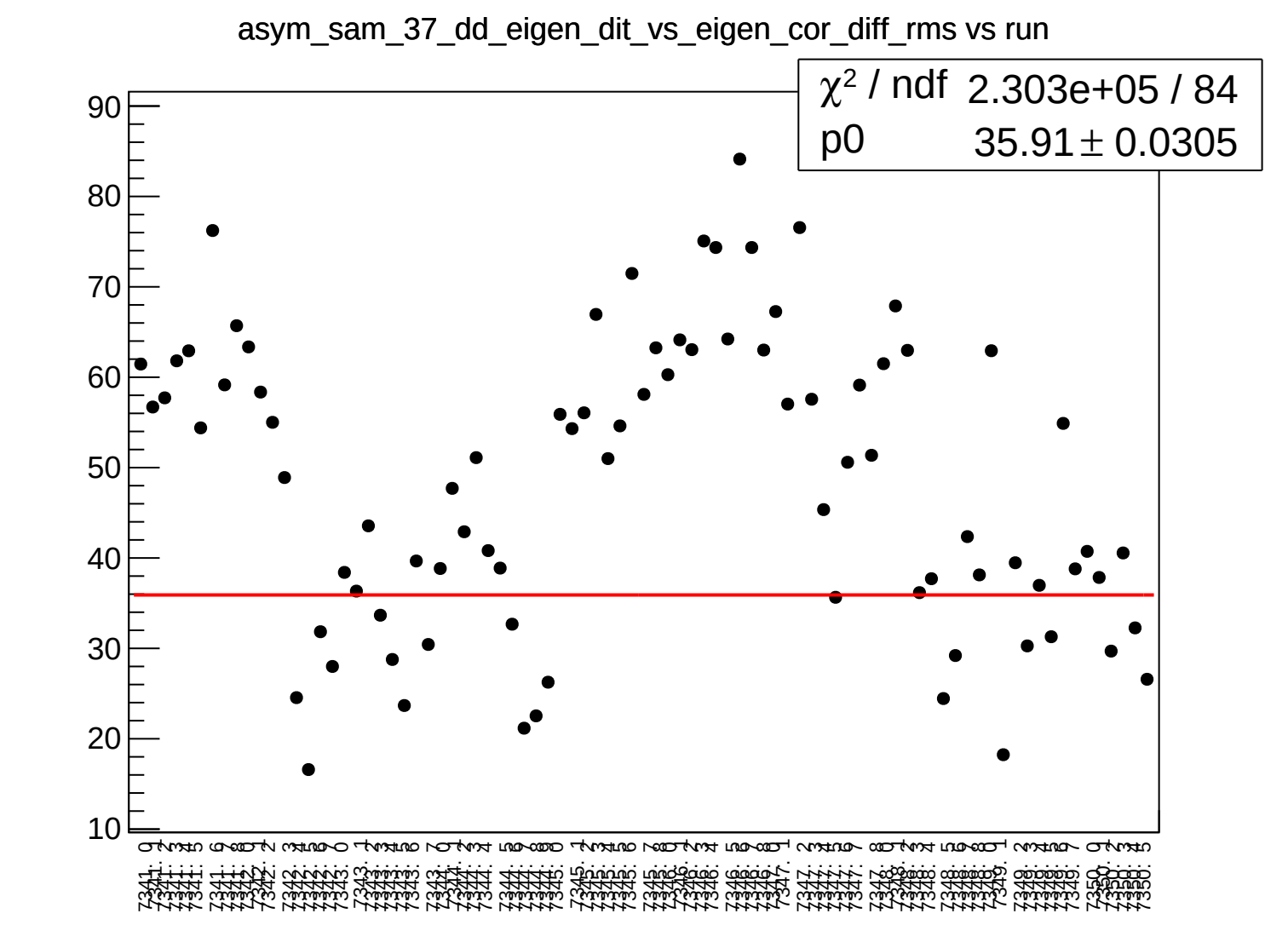

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.15 / 84
p0 0.05725 ± 0.04313
pull
Entries 85
Mean −856.2
Std Dev 0

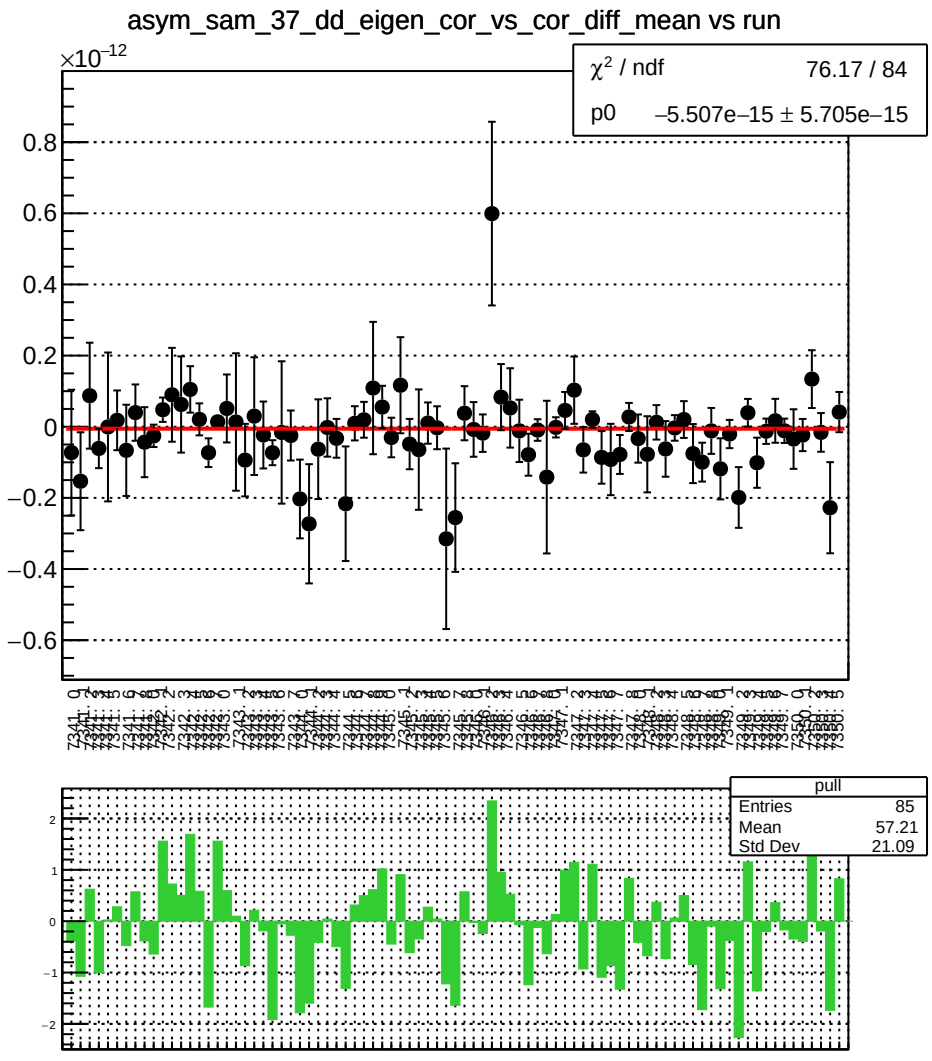

pull1D
Entries 85
Mean 0.001685
Std Dev 1.007

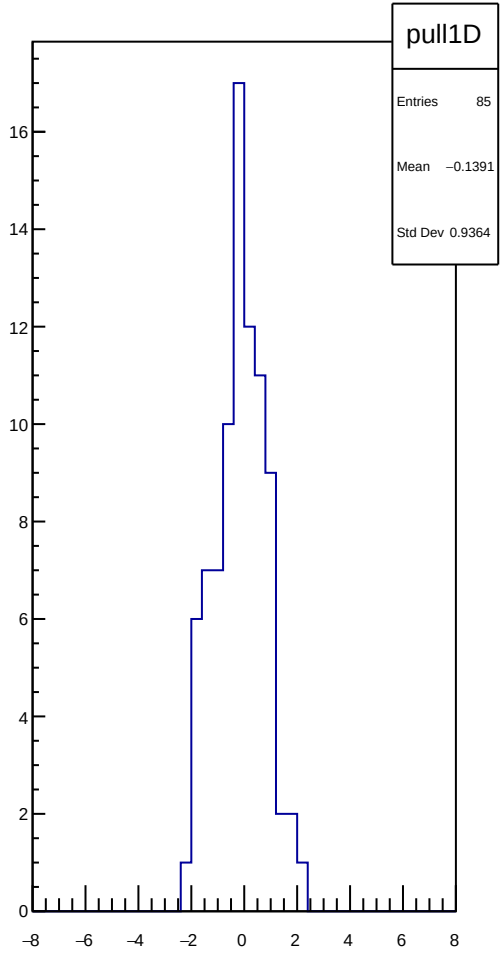

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.303e+05 / 84
p0 35.91 ± 0.0305
90
80
70
60
50
40
30
20
10

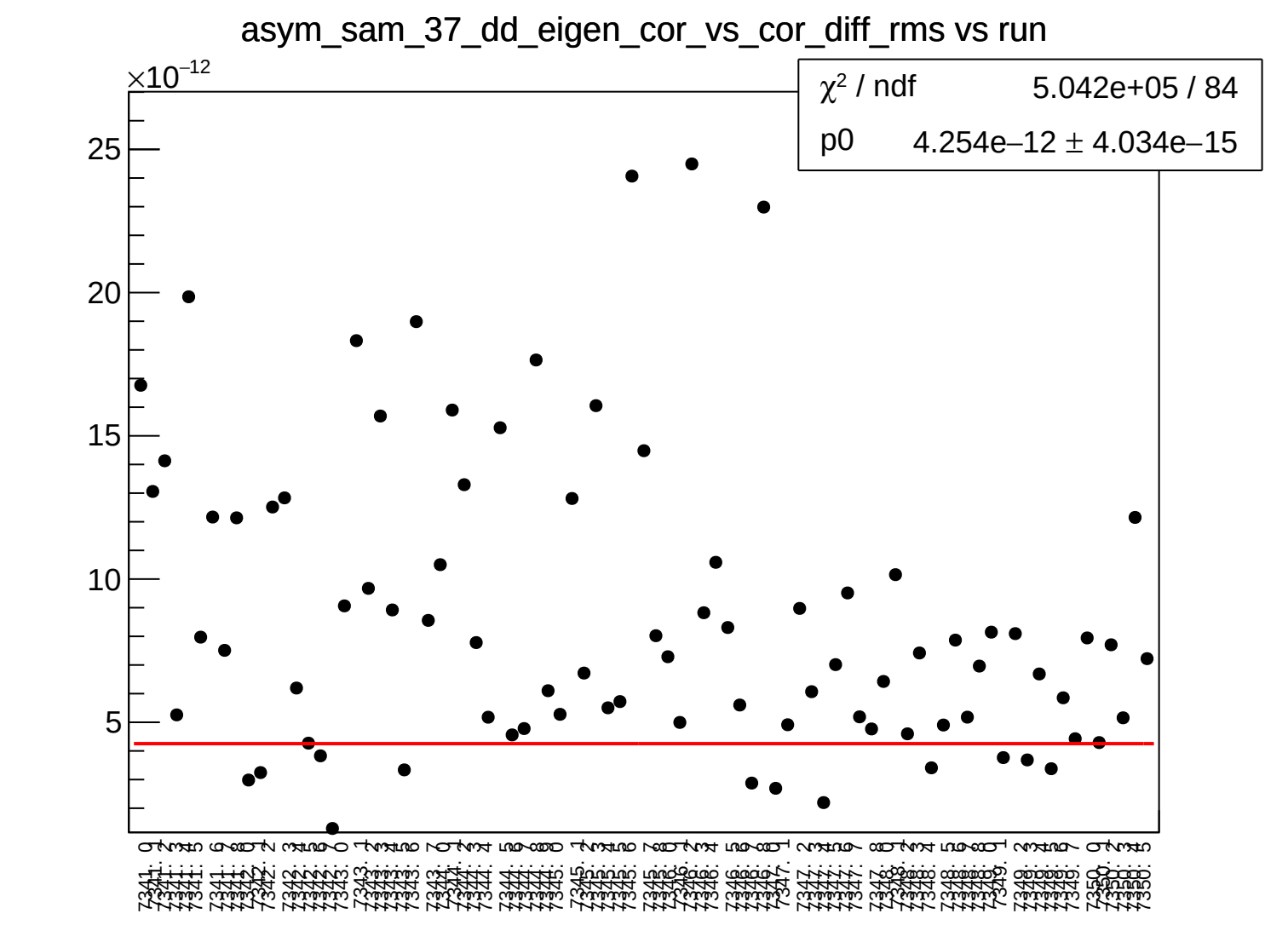

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.15 / 84
p0 0.05725 ± 0.04313
pull
Entries 85
Mean −856.2
Std Dev 0

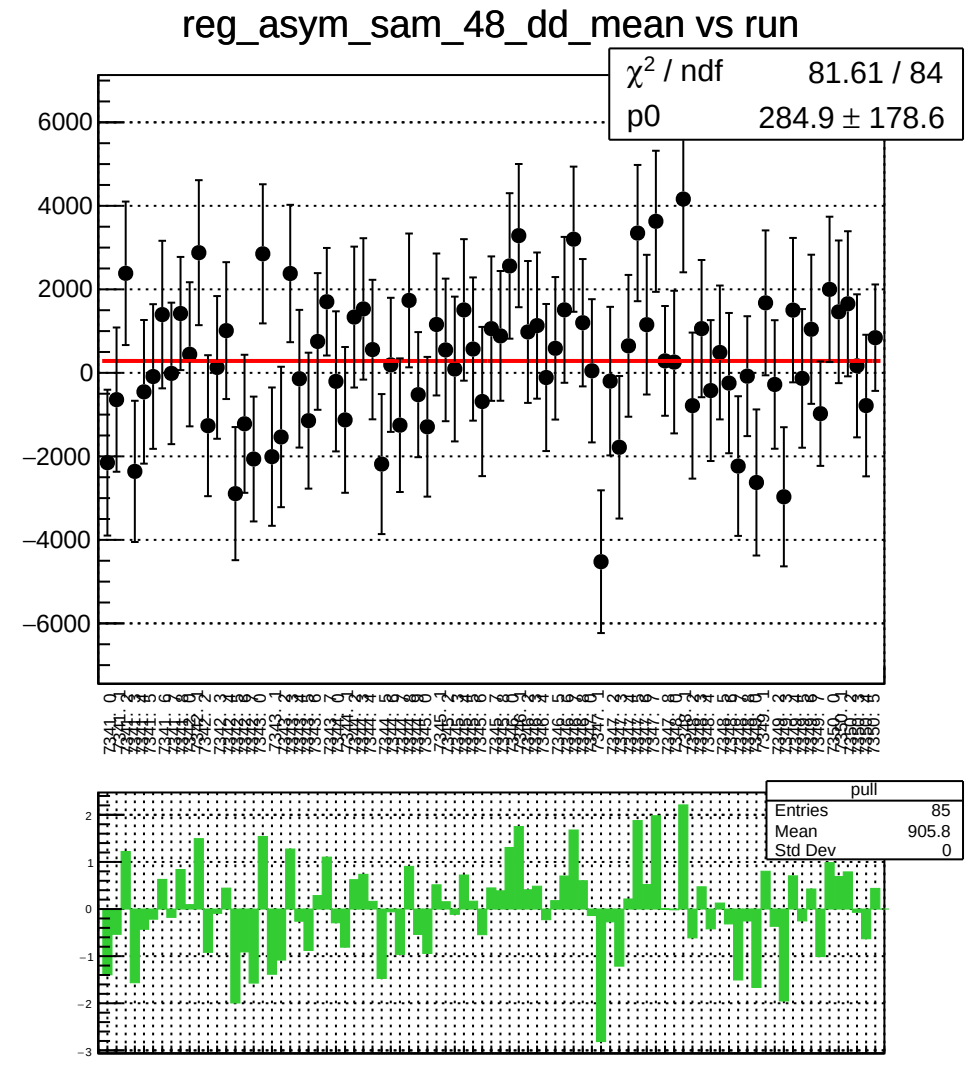

pull1D
Entries 85
Mean 0.001685
Std Dev 1.007

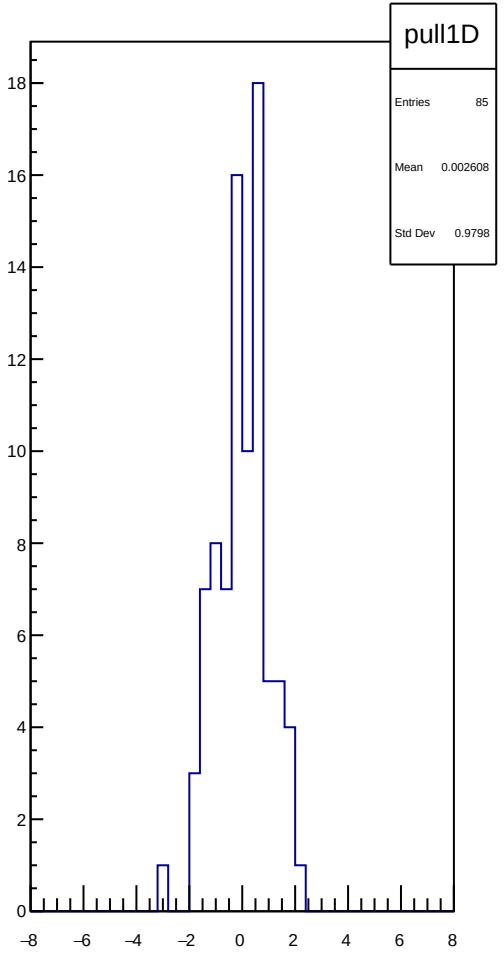

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.303e+05 / 84
p0 35.91 ± 0.0305
90
80
70
60
50
40
30
20
10

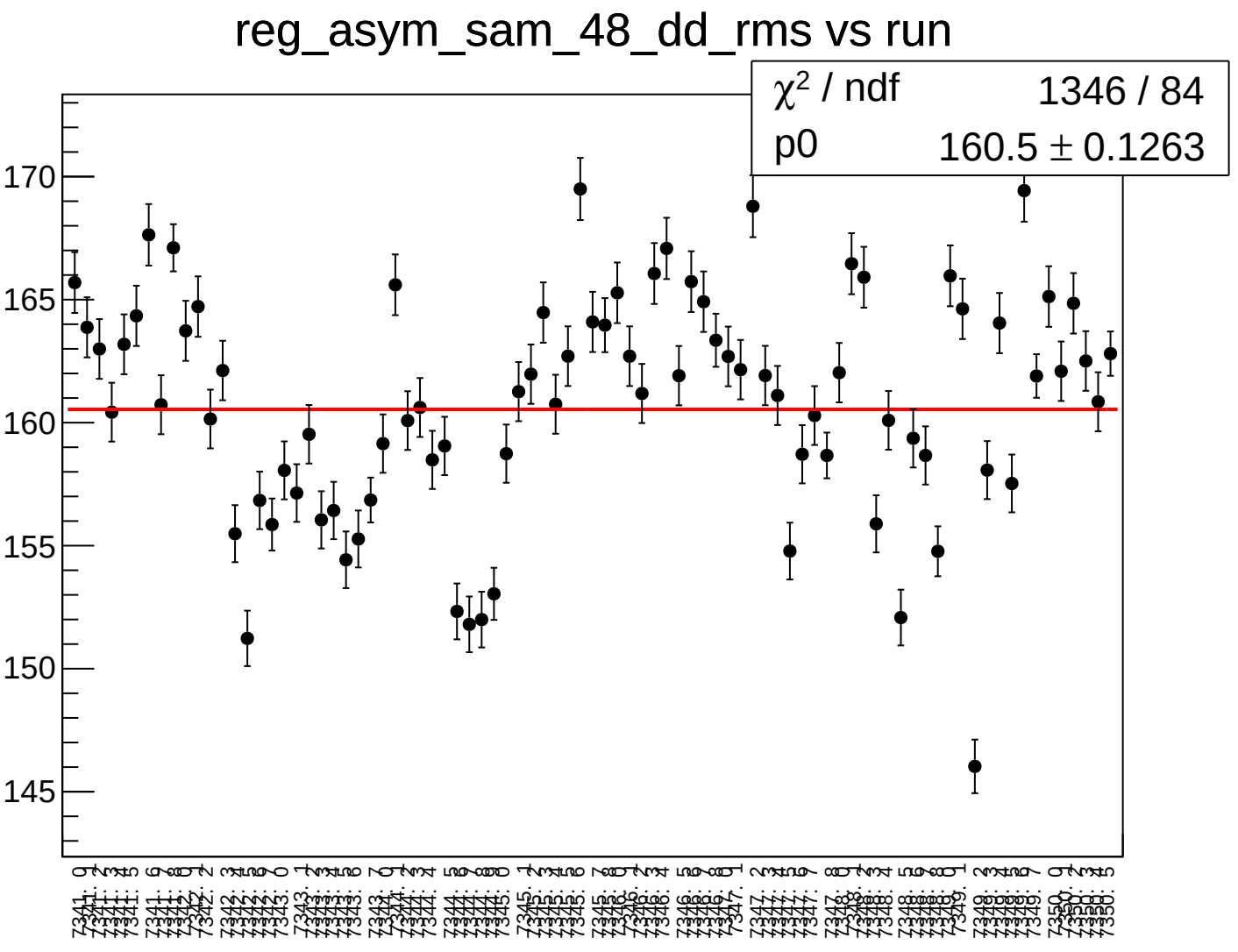

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.17 / 84
p0 −5.507e−15 ± 5.705e−15
pull
Entries 85
Mean 57.21
Std Dev 21.09

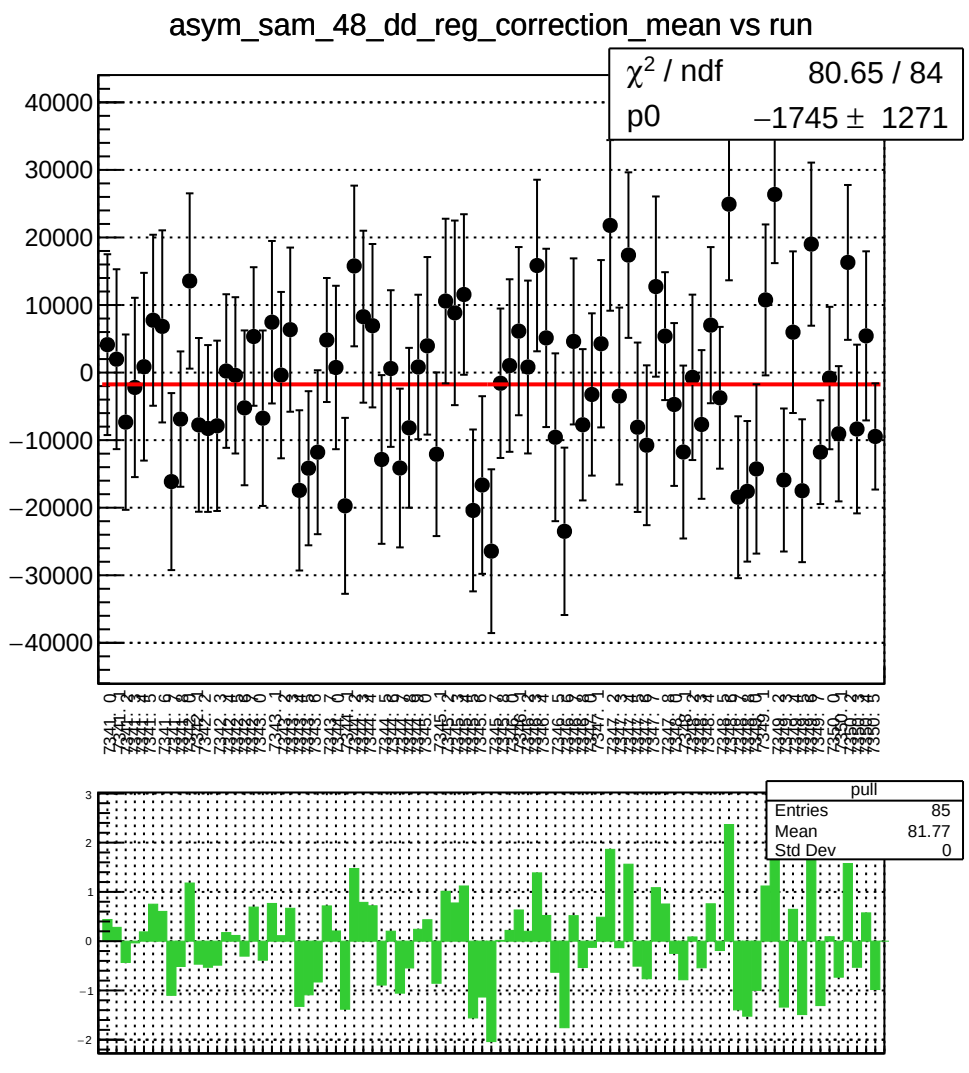

pull1D
Entries 85
Mean −0.1391
Std Dev 0.9364

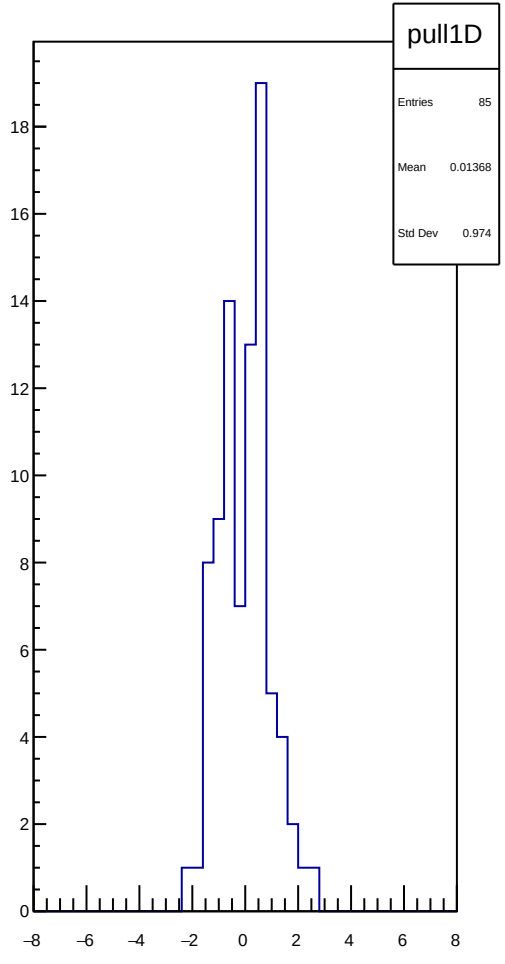

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.042e+05 / 84
p0 4.254e−12 ± 4.034e−15
25
20
15
10
5

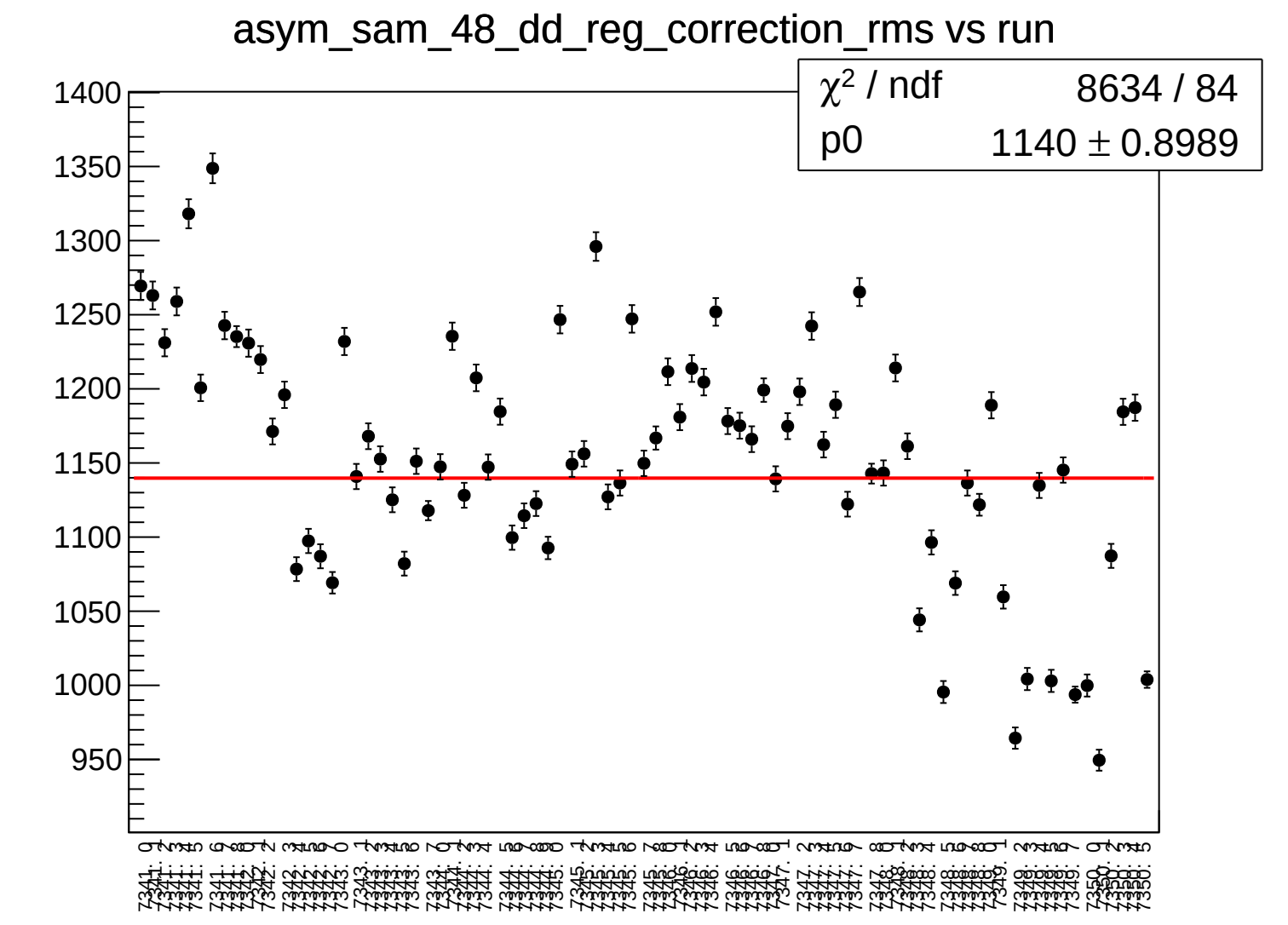

reg_asym_sam_48_dd_mean vs run
χ² / ndf 81.61 / 84
p0 284.9 ± 178.6
pull
Entries 85
Mean 905.8
Std Dev 0

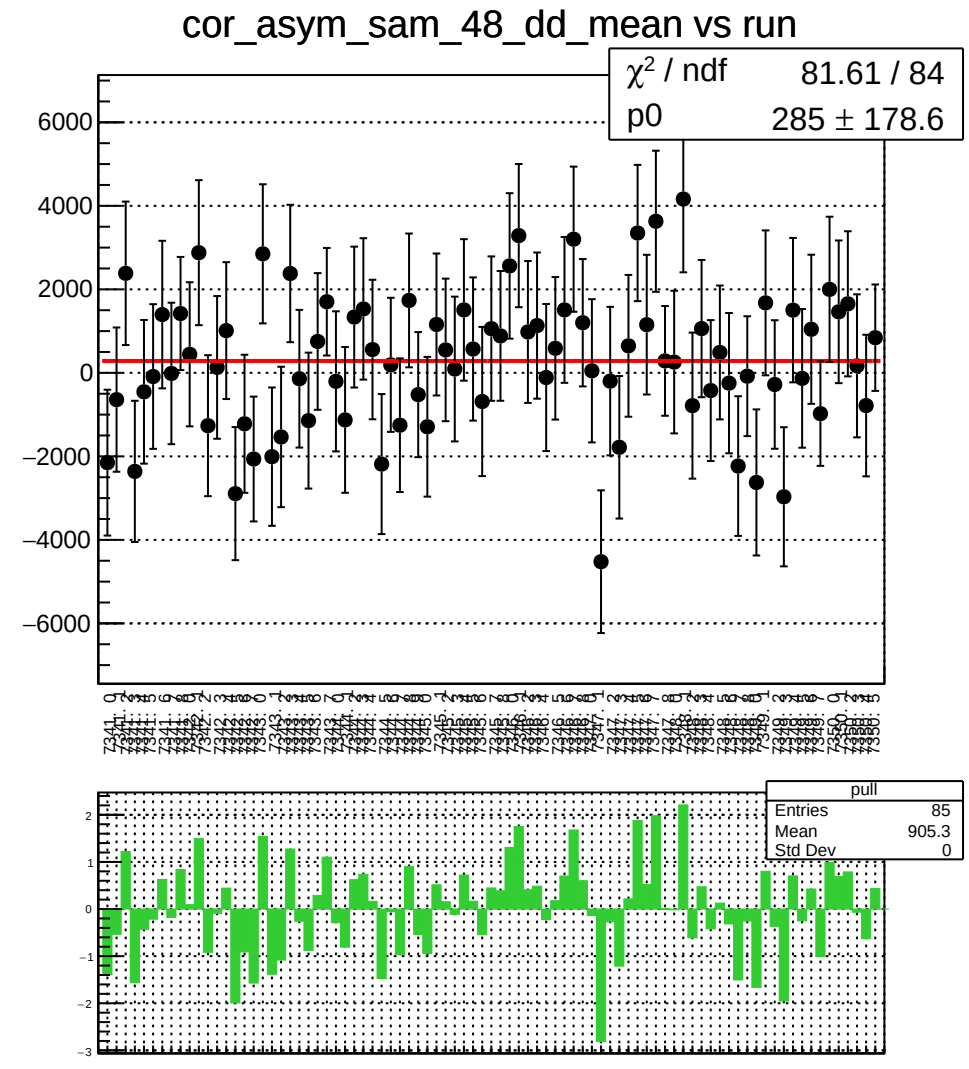

pull1D
Entries 85
Mean 0.002608
Std Dev 0.9798

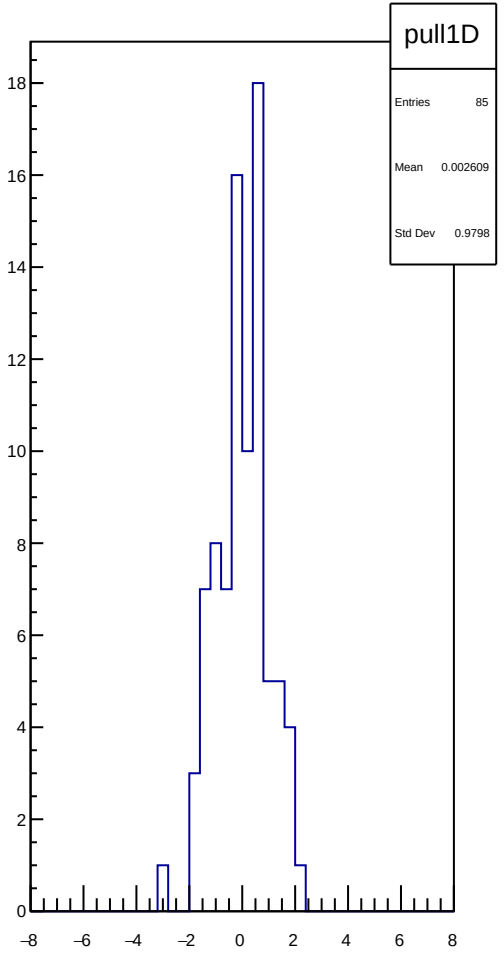

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1346 / 84
p0 160.5 ± 0.1263
170
165
160
155
150
145

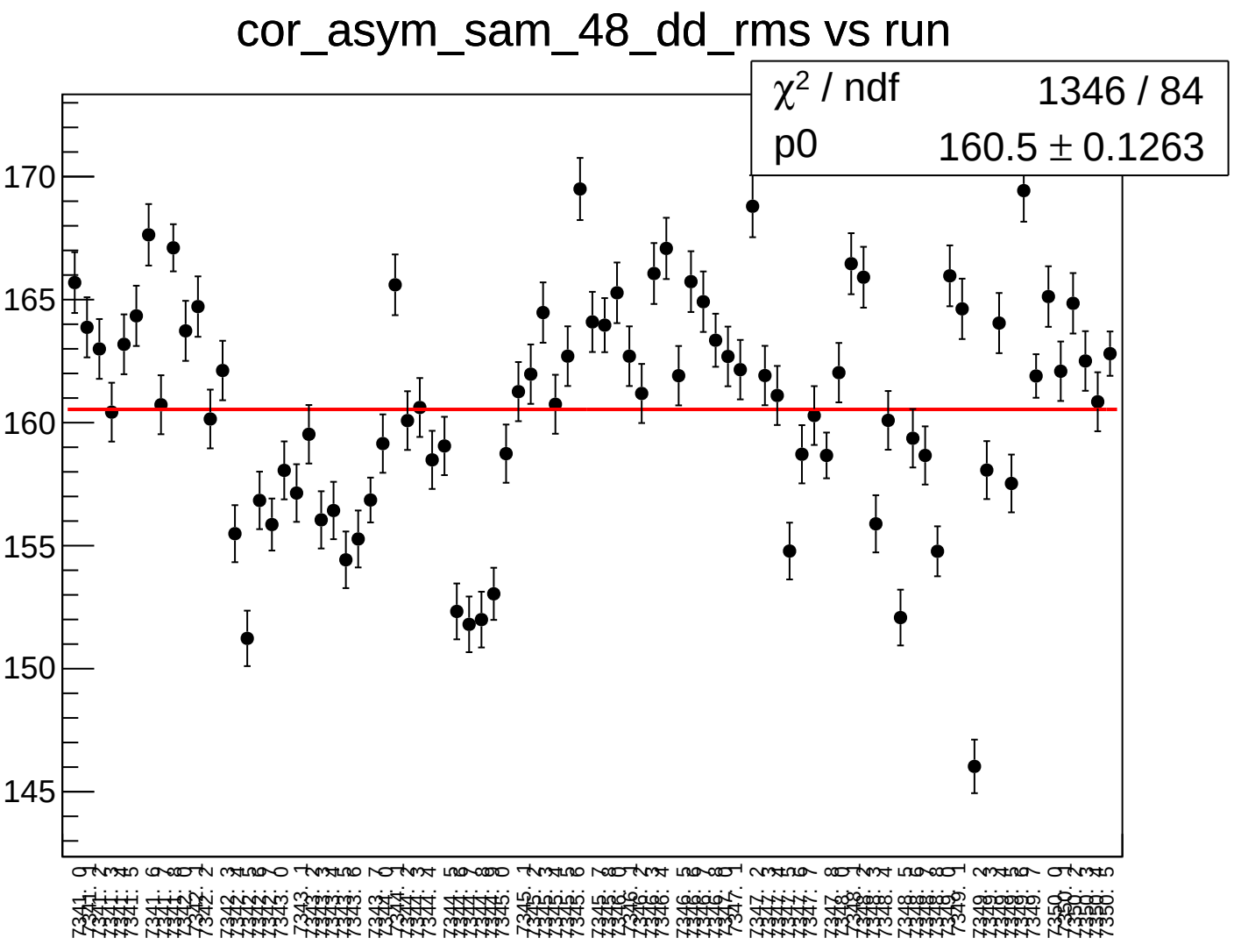

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 80.65 / 84
p0 −1745 ± 1271
pull
Entries 85
Mean 81.77
Std Dev 0

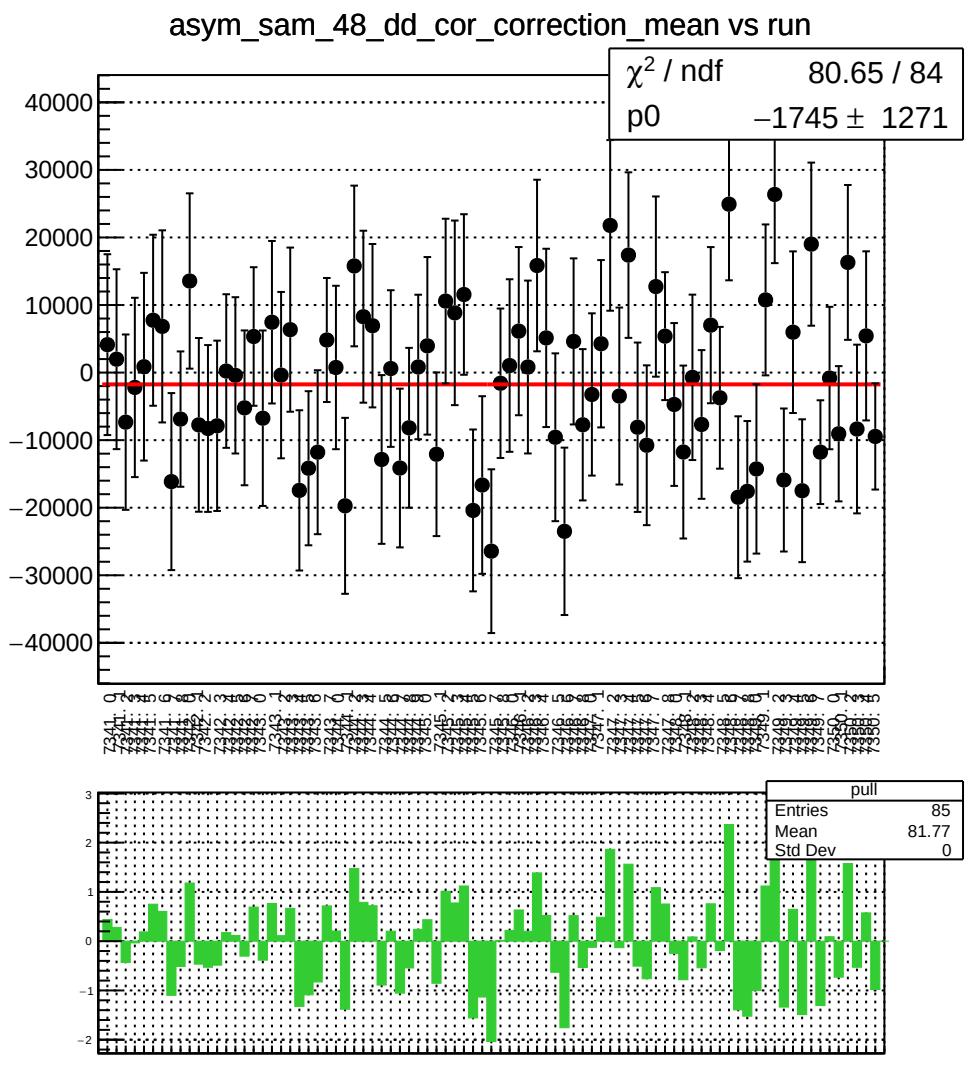

pull1D
Entries 85
Mean 0.01368
Std Dev 0.974

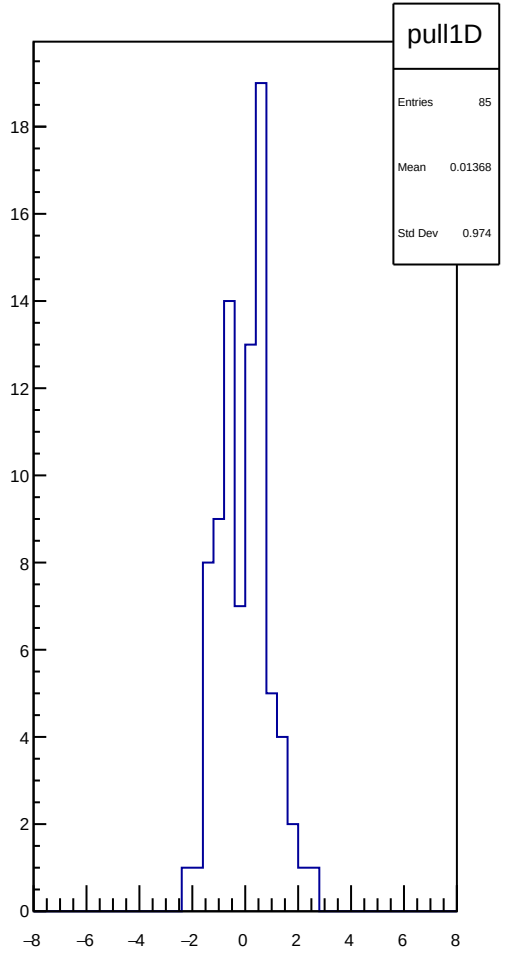

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 8634 / 84
p0 1140 ± 0.8989
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

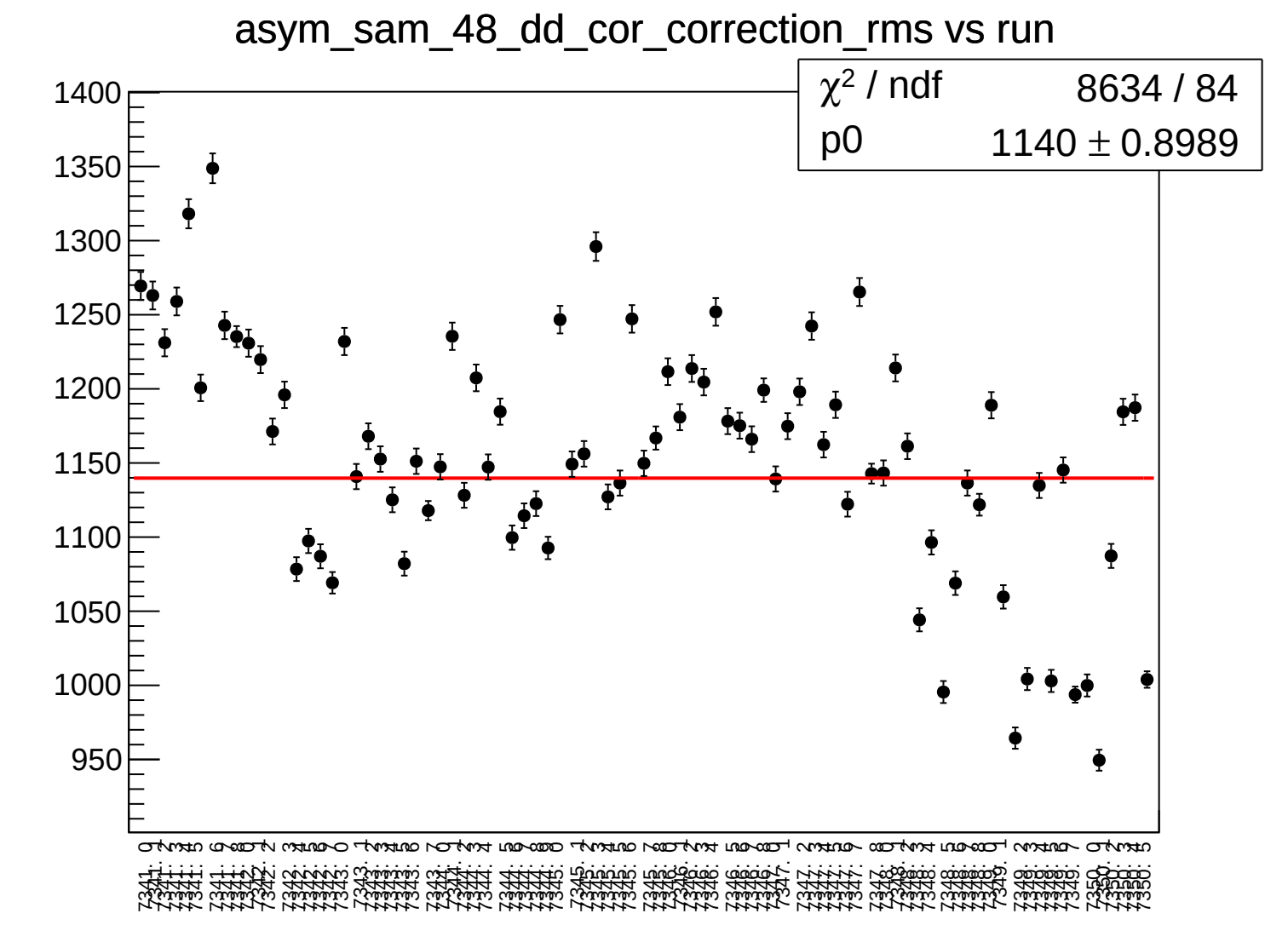

cor_asym_sam_48_dd_mean vs run
χ² / ndf 81.61 / 84
p0 285 ± 178.6
pull
Entries 85
Mean 905.3
Std Dev 0

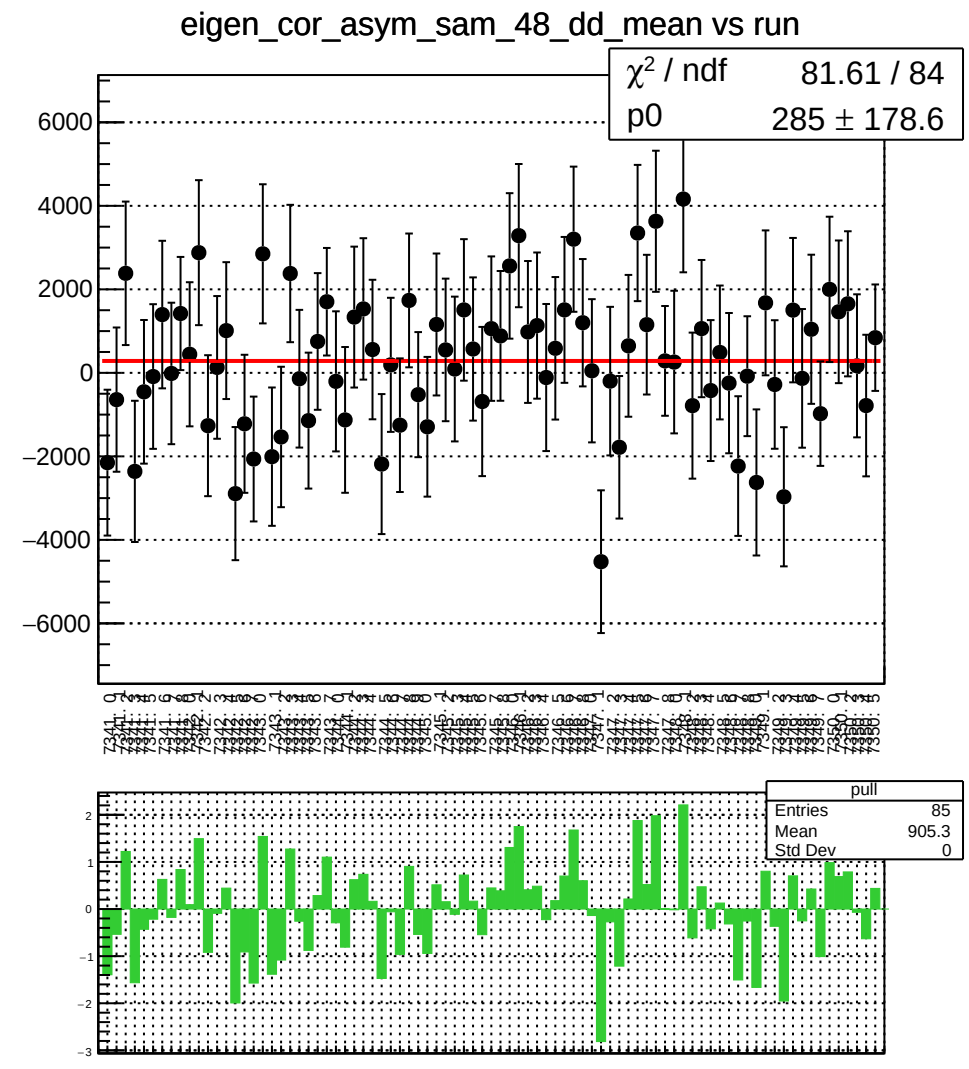

pull1D
Entries 85
Mean 0.002609
Std Dev 0.9798

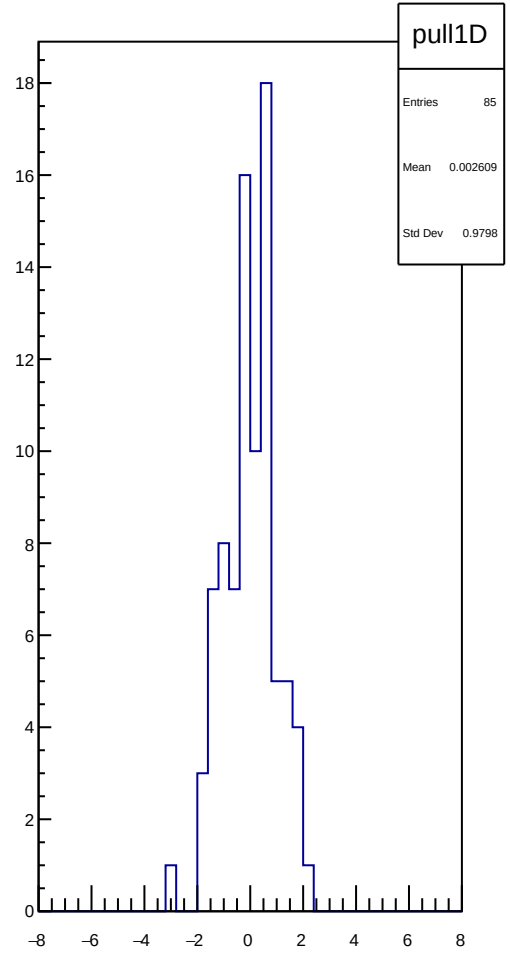

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1346 / 84
p0 160.5 ± 0.1263
170
165
160
155
150
145

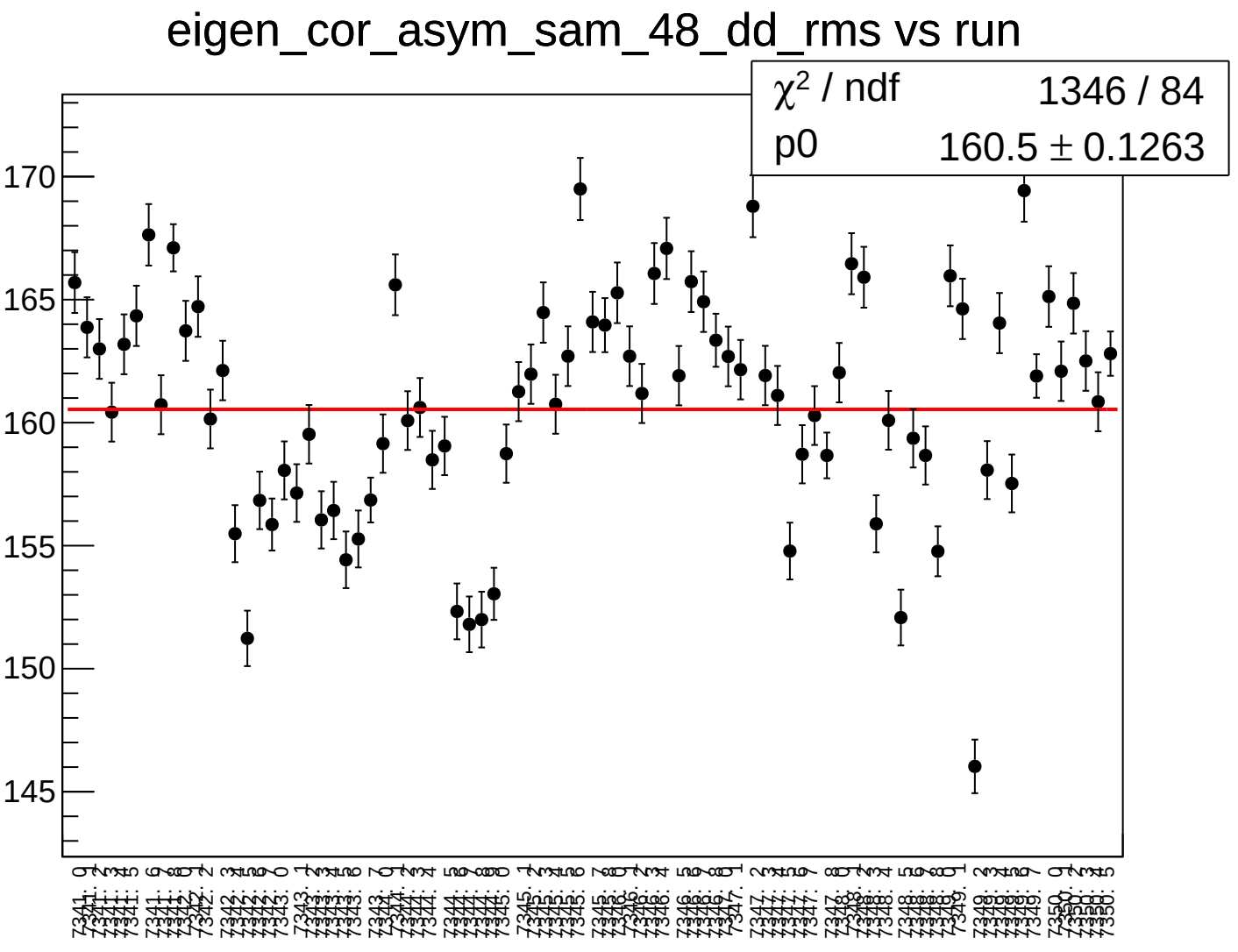

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 80.65 / 84
p0 −1745 ± 1271
pull
Entries 85
Mean 81.77
Std Dev 0

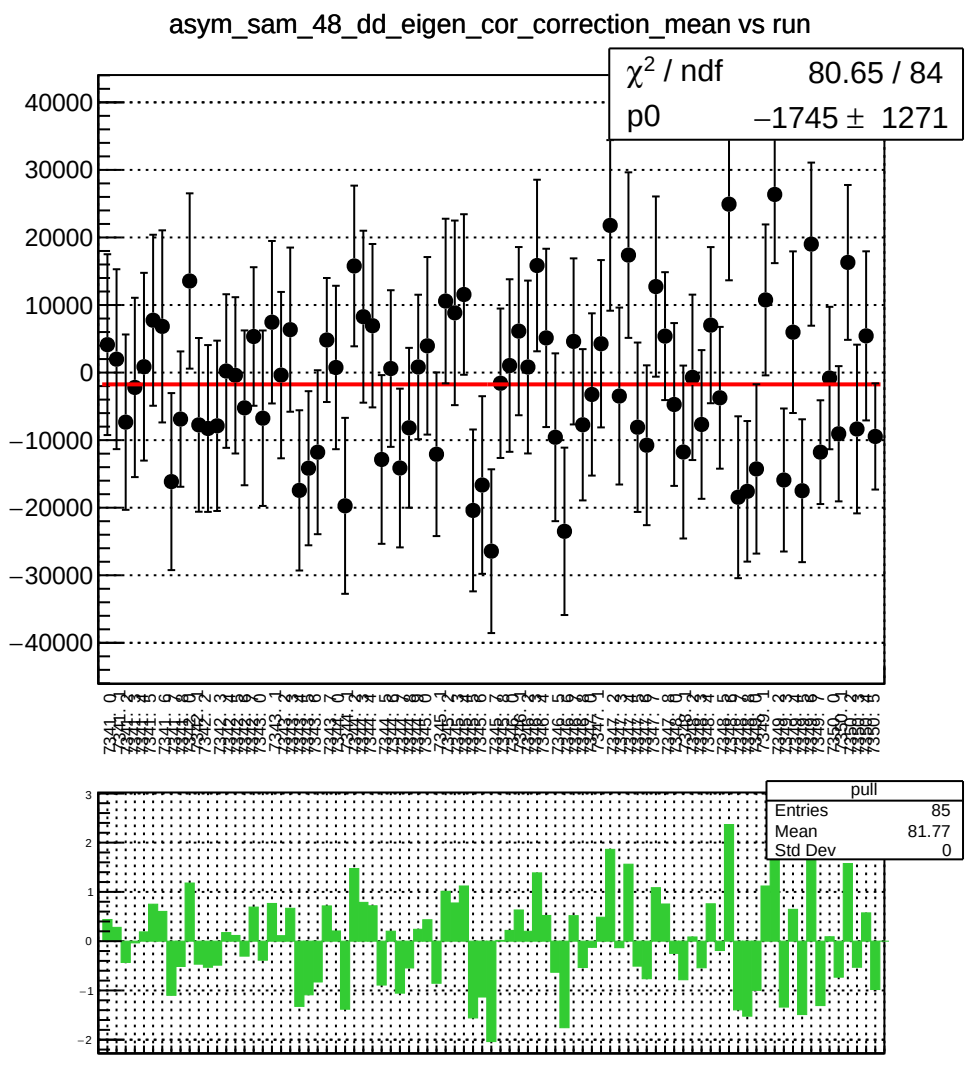

pull1D
Entries 85
Mean 0.01368
Std Dev 0.974

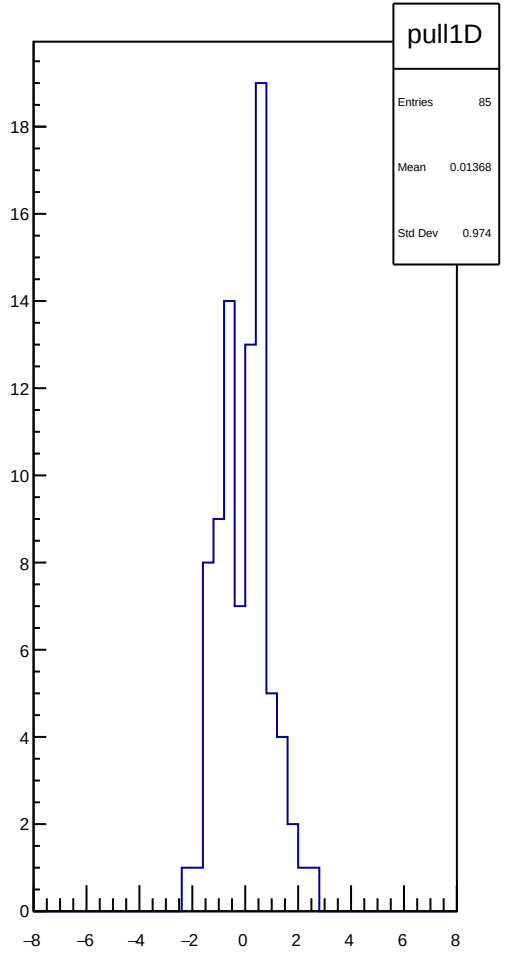

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 8634 / 84
p0 1140 ± 0.8989
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

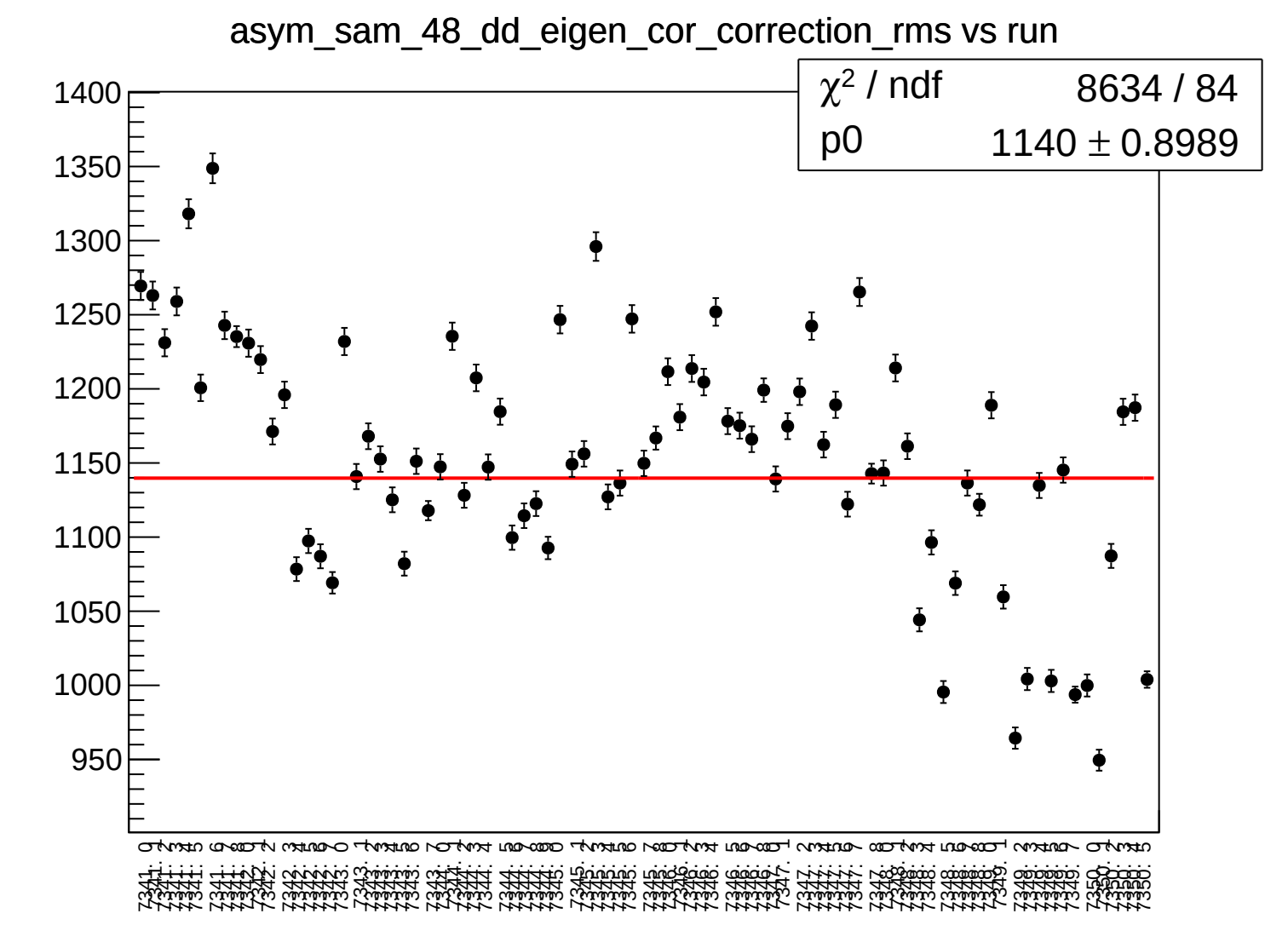

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 81.61 / 84
p0 285 ± 178.6
pull
Entries 85
Mean 905.3
Std Dev 0

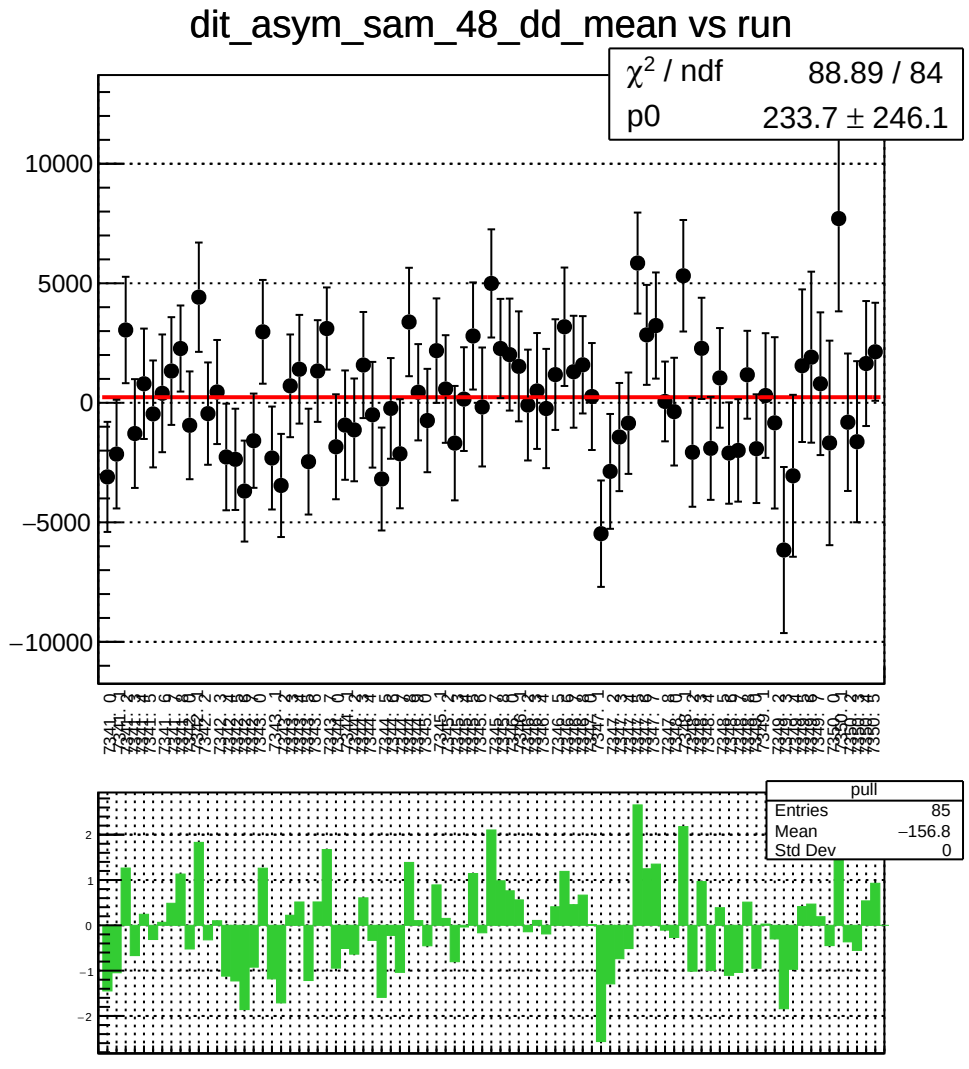

pull1D
Entries 85
Mean 0.002609
Std Dev 0.9798

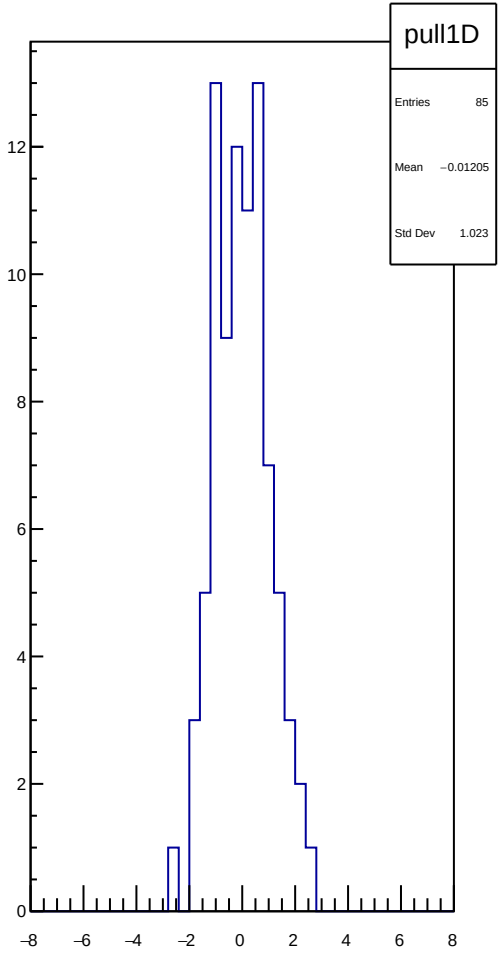

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1346 / 84
p0 160.5 ± 0.1263
170
165
160
155
150
145

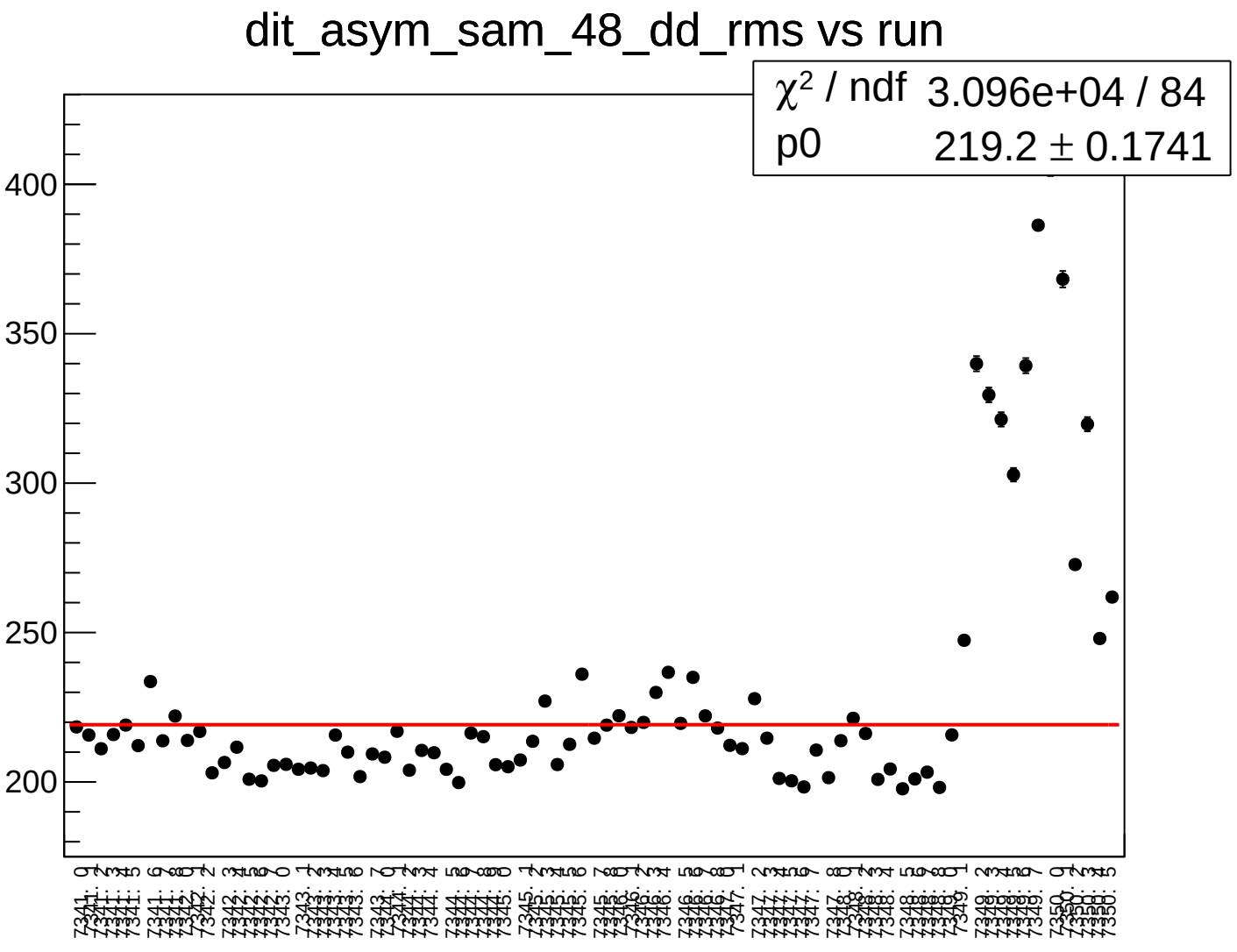

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.65 / 84
p0 −1745 ± 1271
pull
Entries 85
Mean 81.77
Std Dev 0

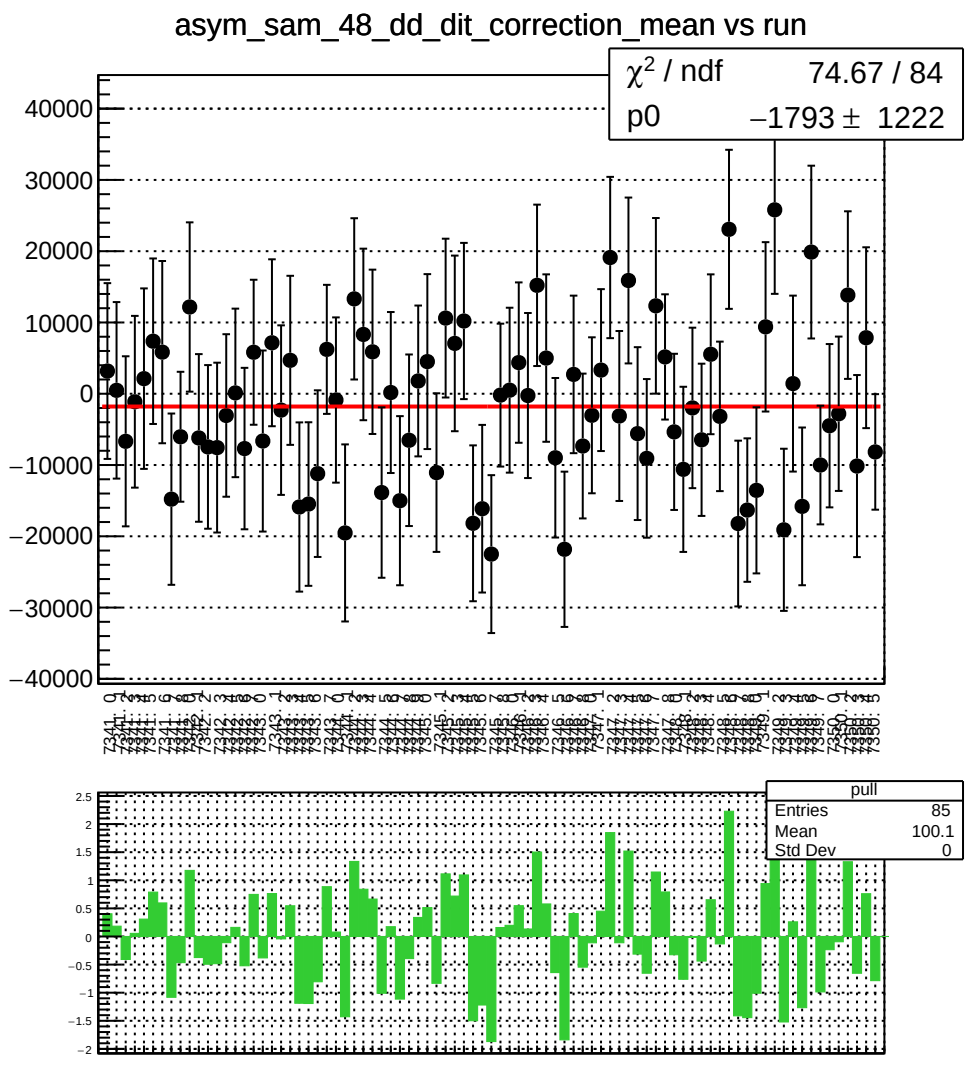

pull1D
Entries 85
Mean 0.01368
Std Dev 0.974

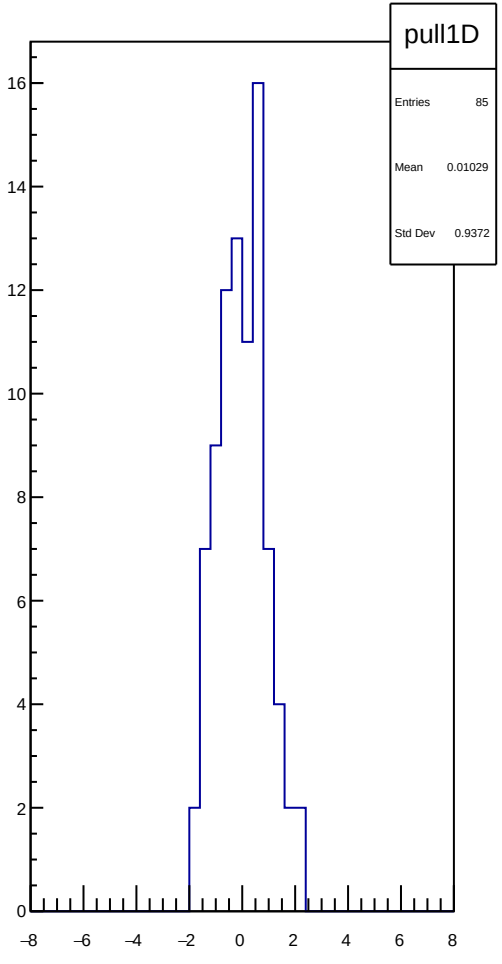

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8634 / 84
p0 1140 ± 0.8989
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

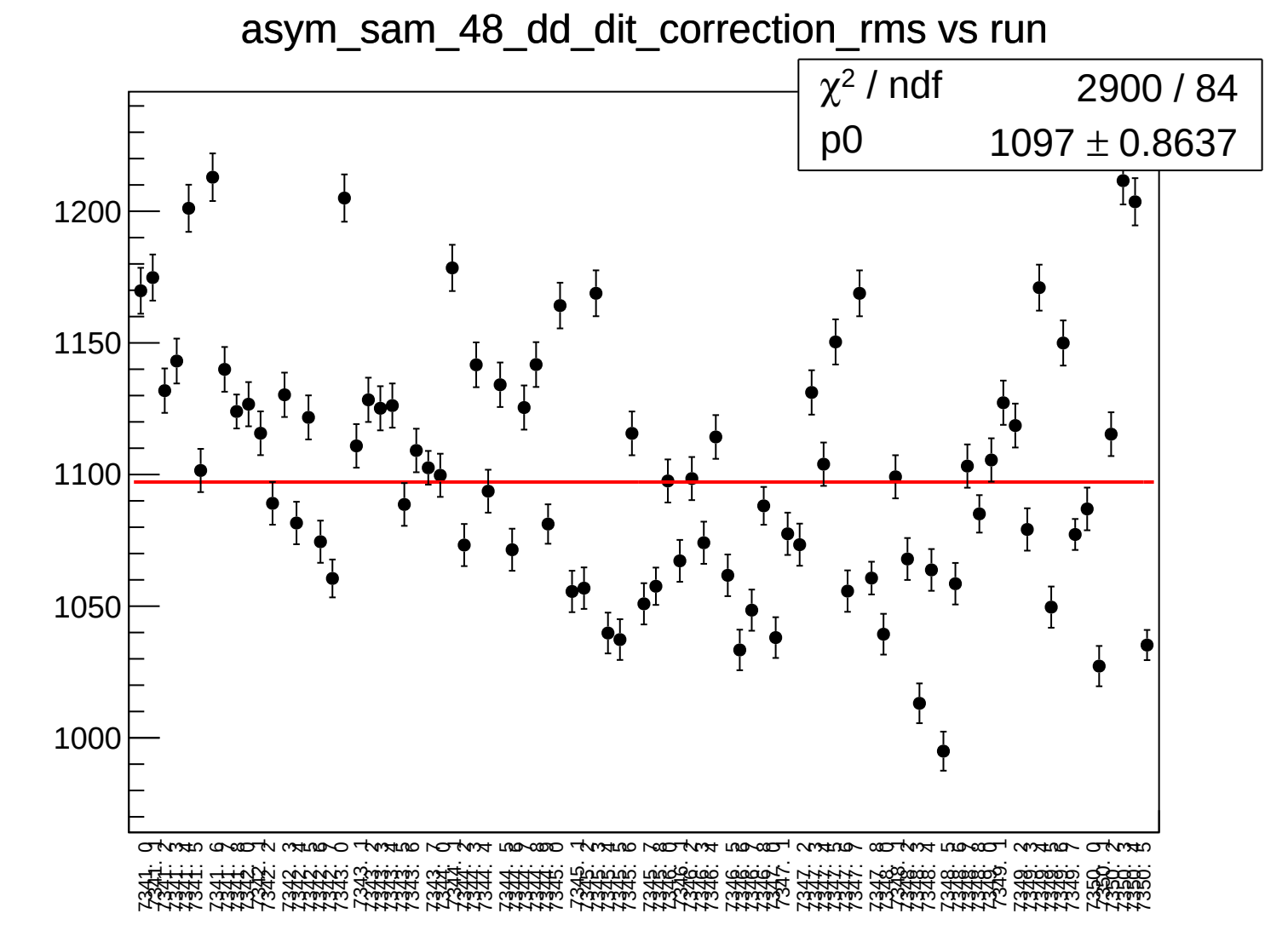

dit_asym_sam_48_dd_mean vs run
χ² / ndf 88.89 / 84
p0 233.7 ± 246.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −156.8
Std Dev 0
2
1
0
−1
−2

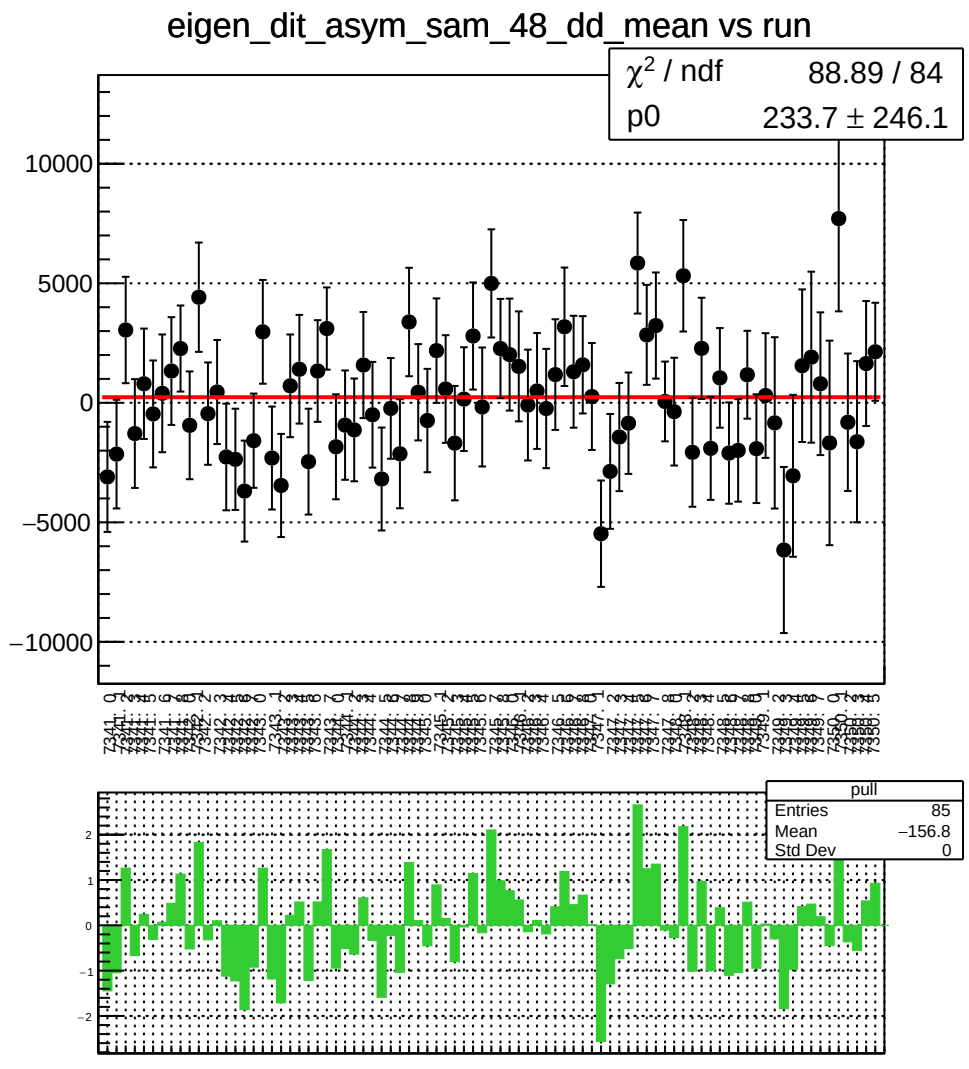

pull1D
Entries 85
Mean −0.01205
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

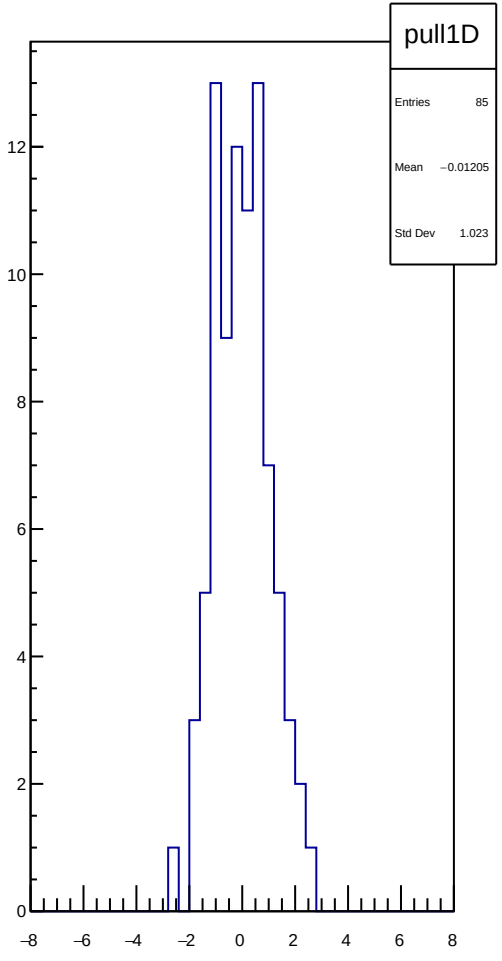

dit_asym_sam_48_dd_rms vs run
χ² / ndf 3.096e+04 / 84
p0 219.2 ± 0.1741
400
350
300
250
200

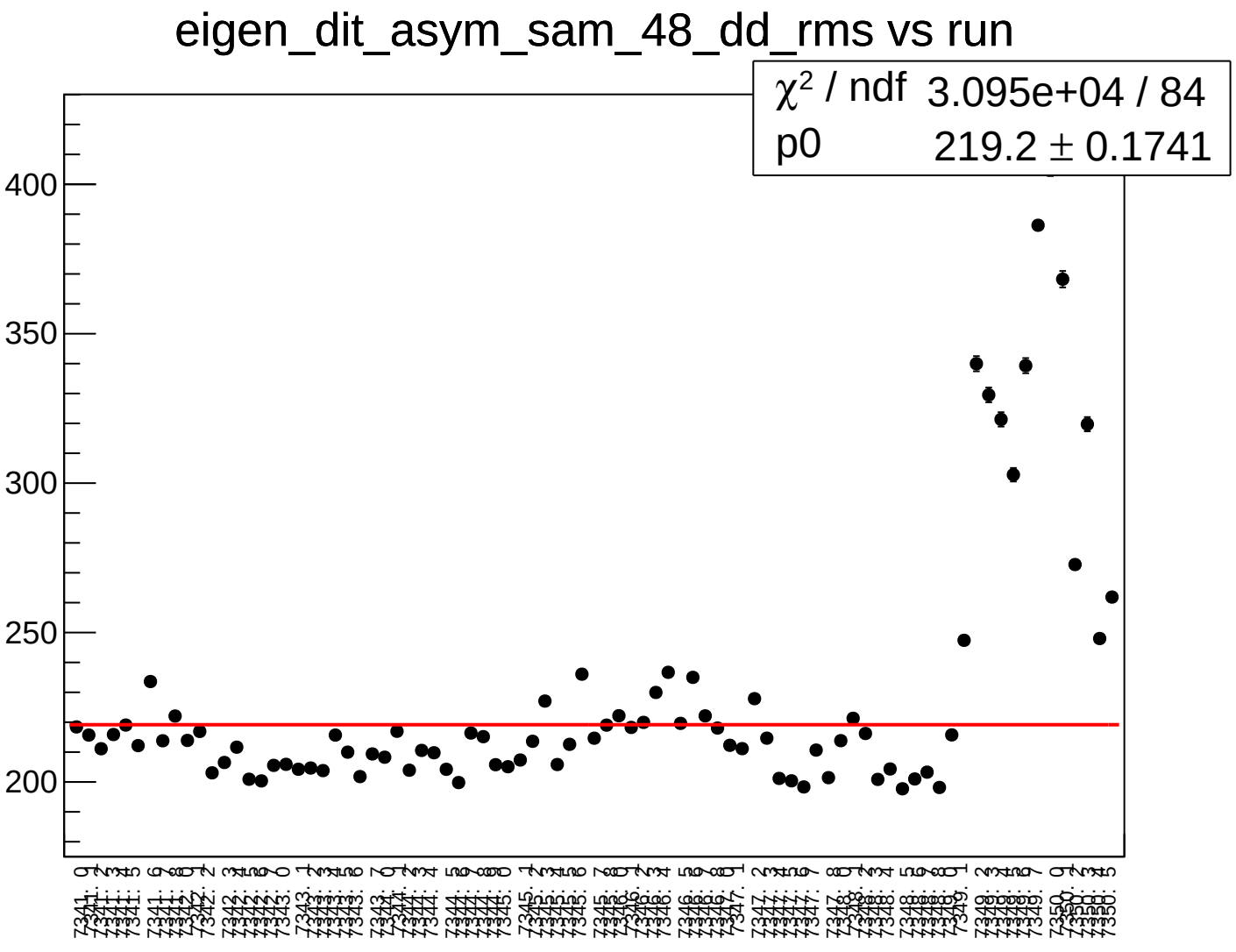

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 74.67 / 84
p0 −1793 ± 1222
pull
Entries 85
Mean 100.1
Std Dev 0

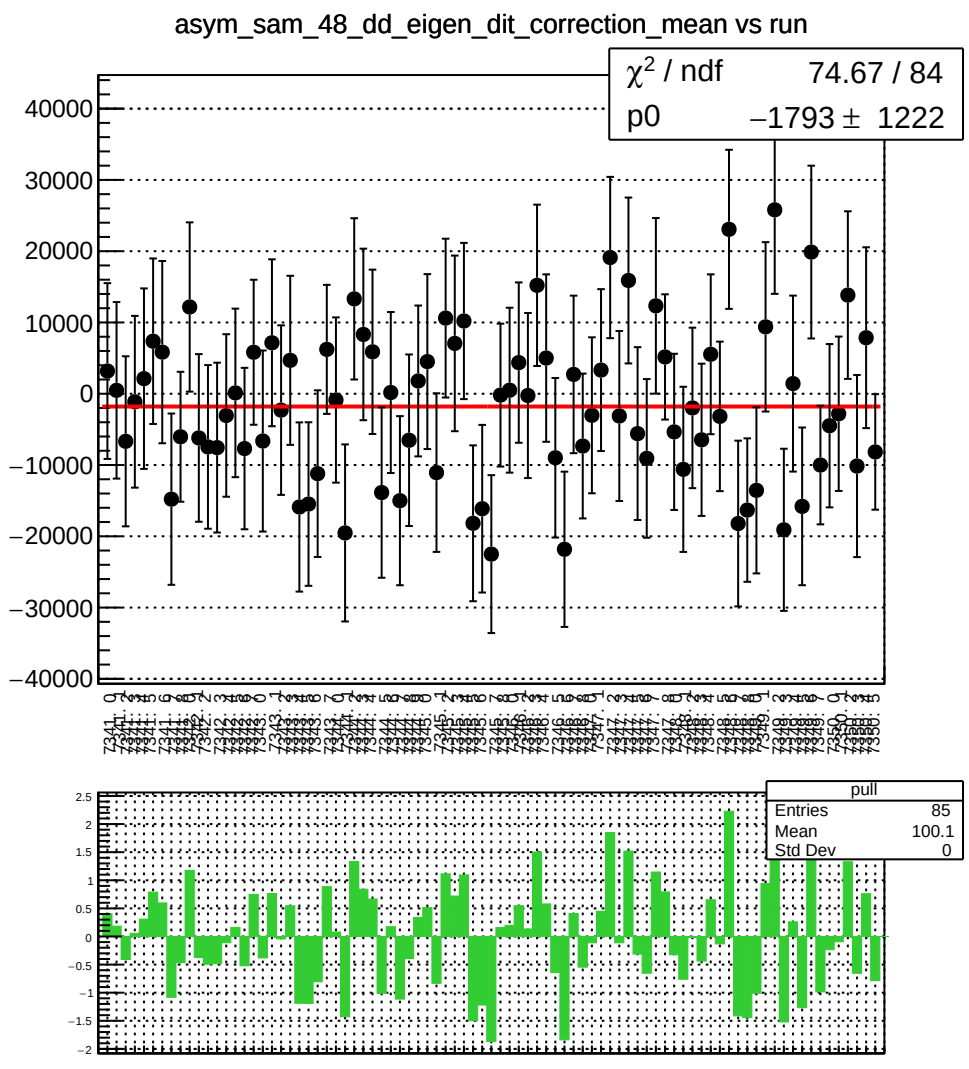

pull1D
Entries 85
Mean 0.01029
Std Dev 0.9372

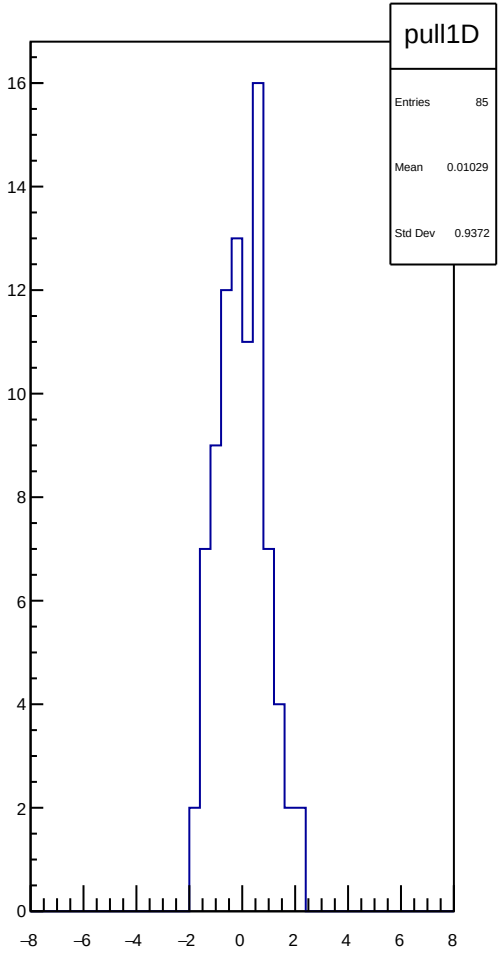

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2900 / 84
p0 1097 ± 0.8637
1200
1150
1100
1050
1000

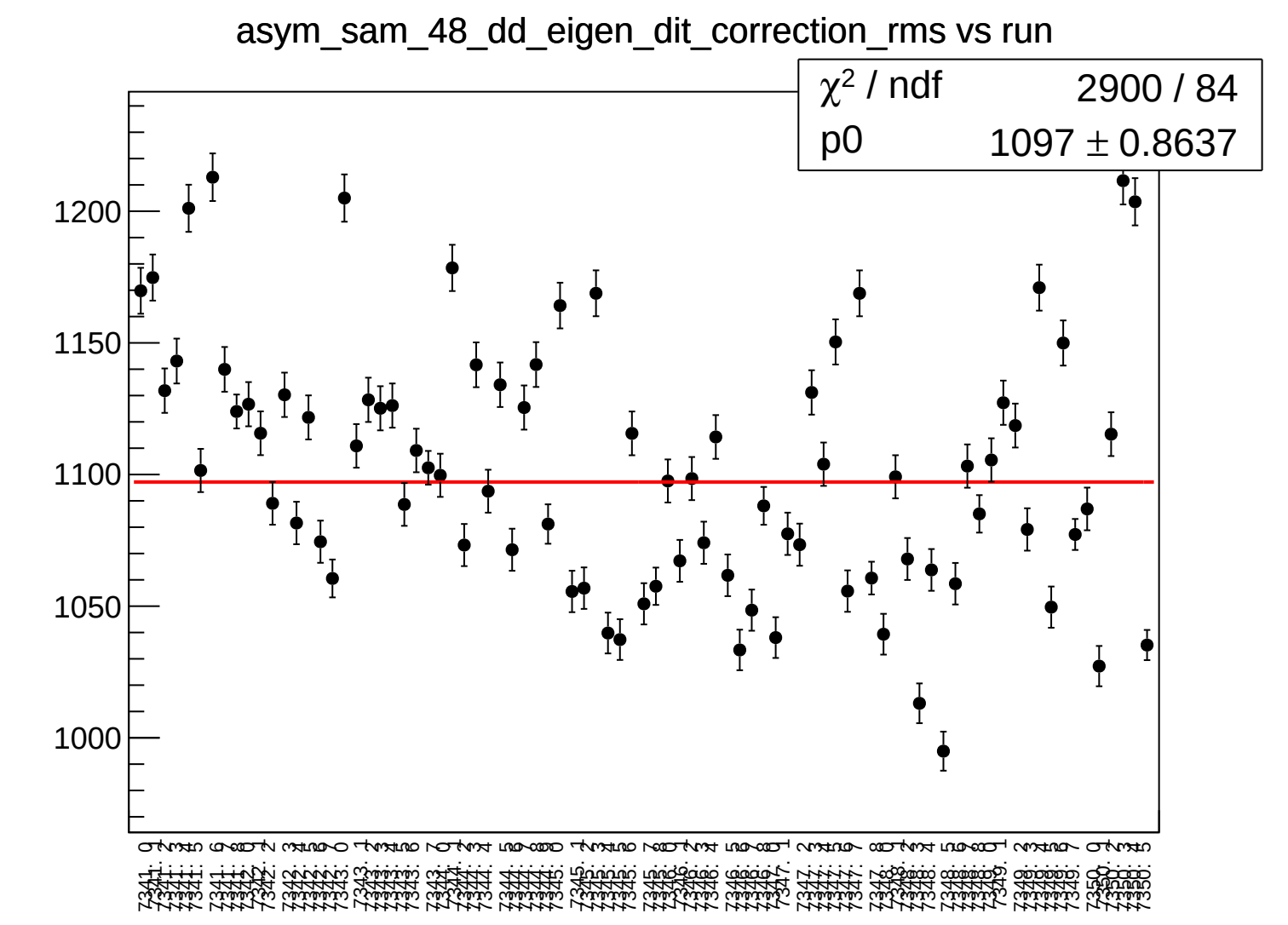

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 88.89 / 84
p0 233.7 ± 246.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −156.8
Std Dev 0
2
1
0
−1
−2

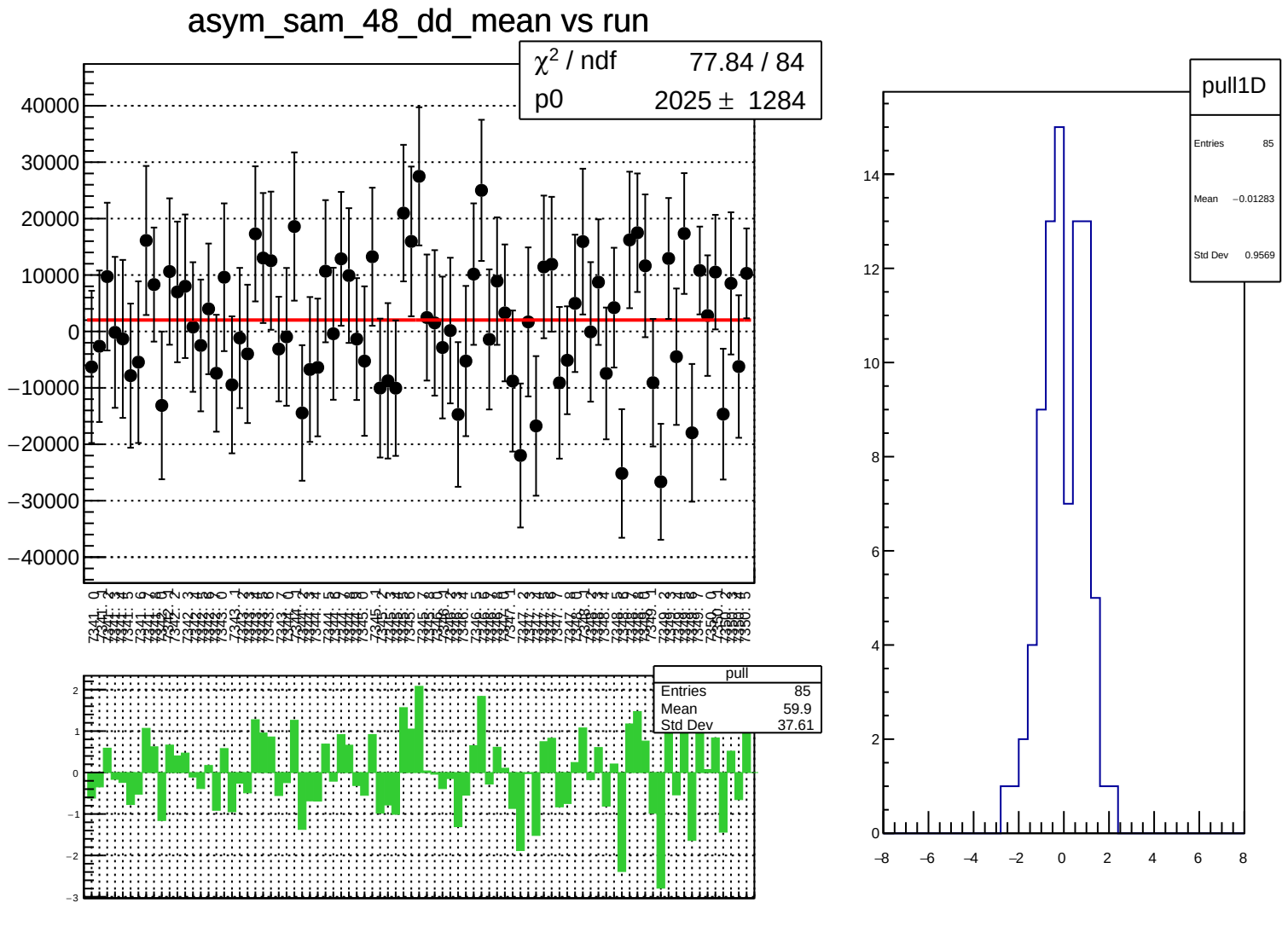

pull1D
Entries 85
Mean −0.01205
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

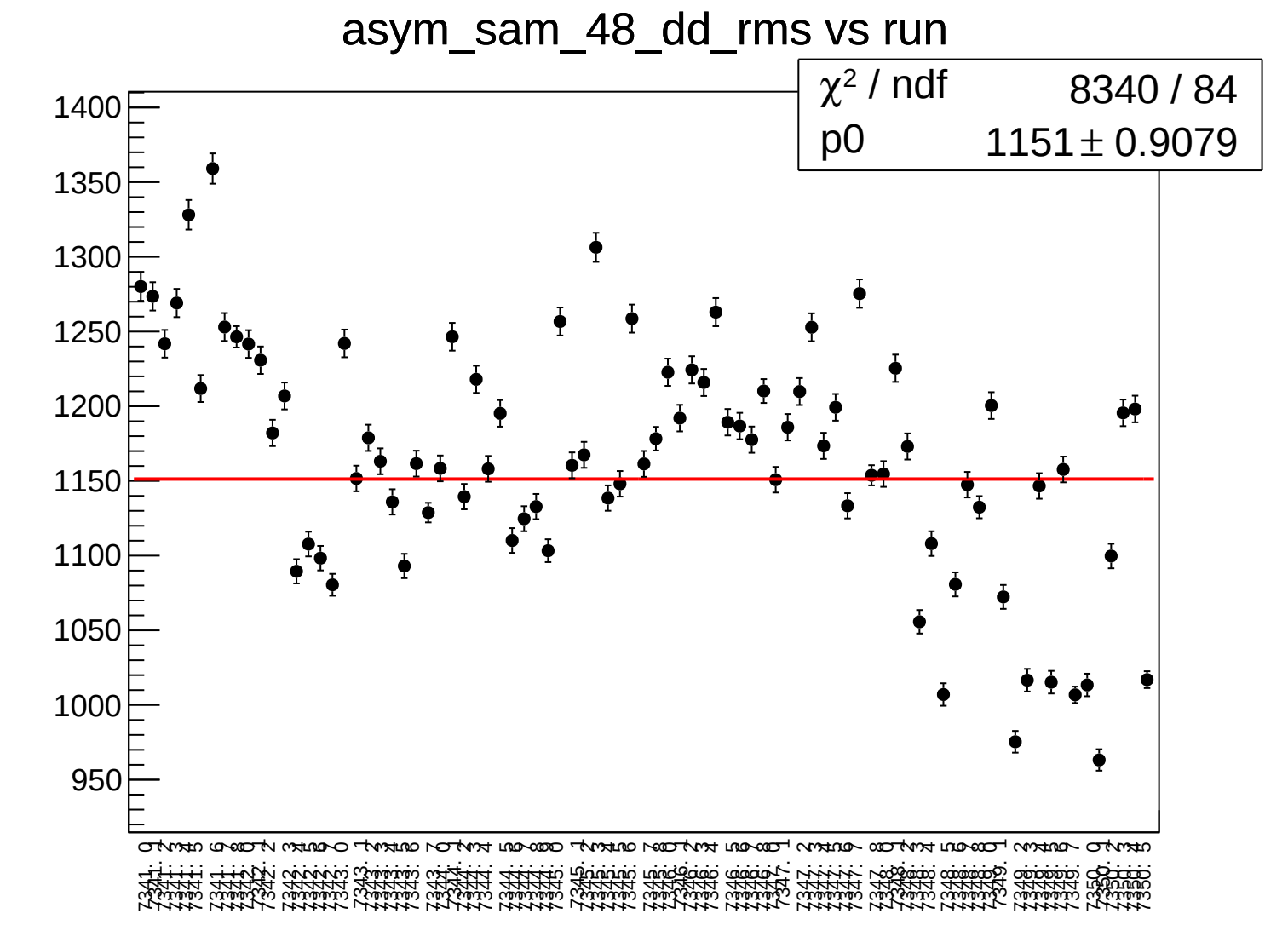

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 3.095e+04 / 84
p0 219.2 ± 0.1741
400
350
300
250
200

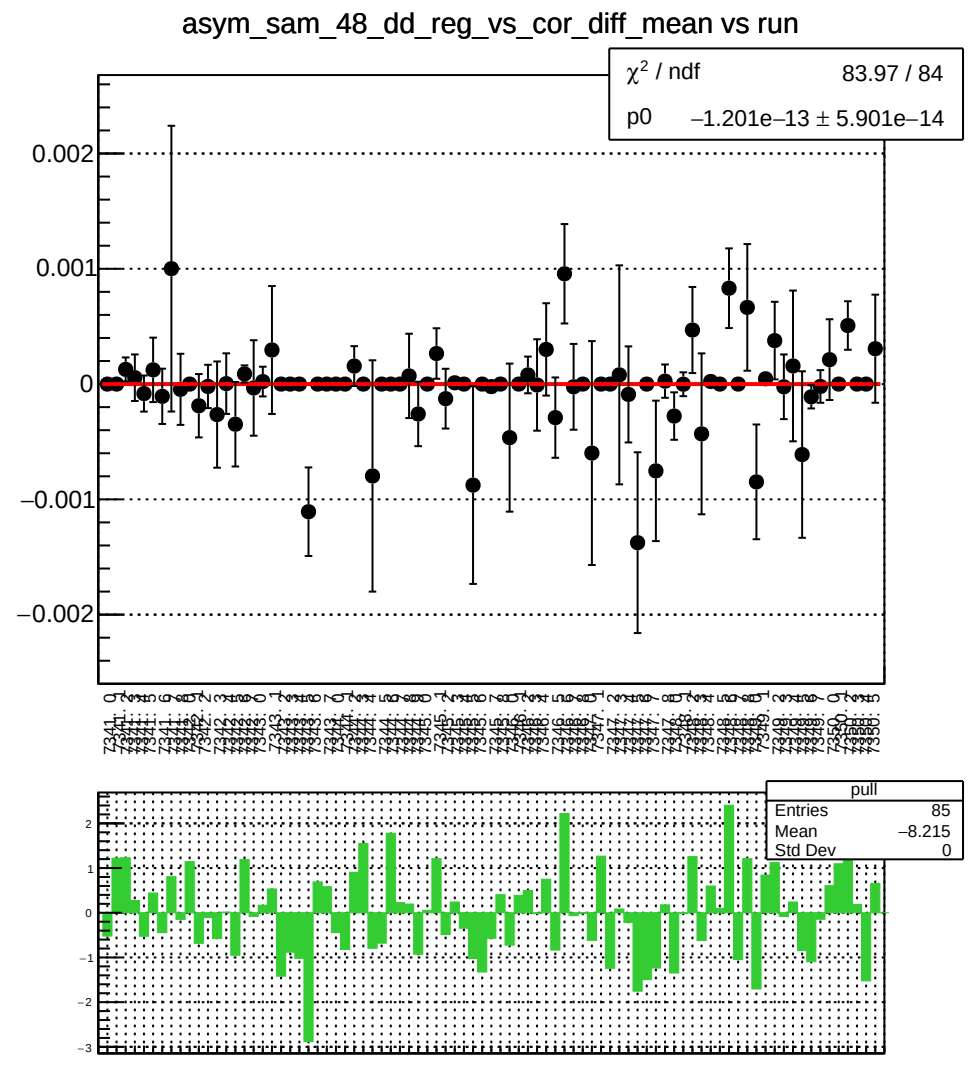

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.67 / 84
p0 −1793 ± 1222
pull
Entries 85
Mean 100.1
Std Dev 0

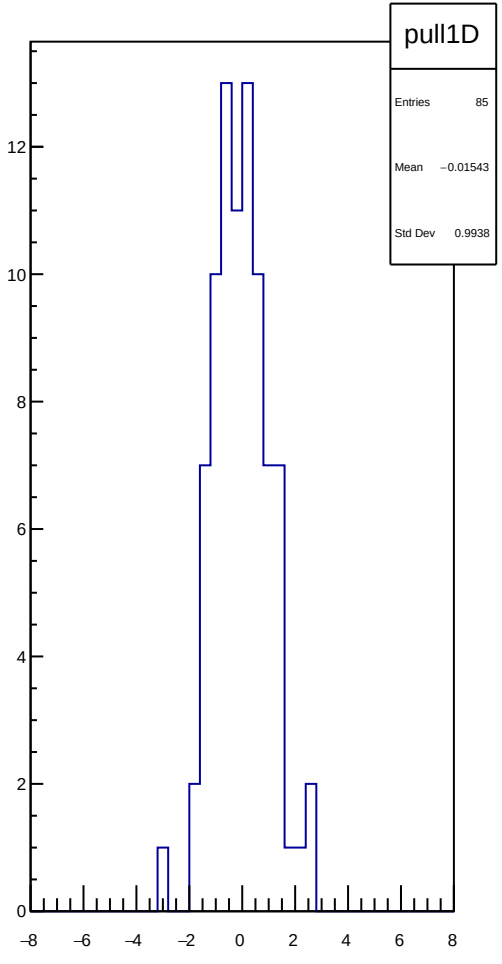

pull1D
Entries 85
Mean 0.01029
Std Dev 0.9372

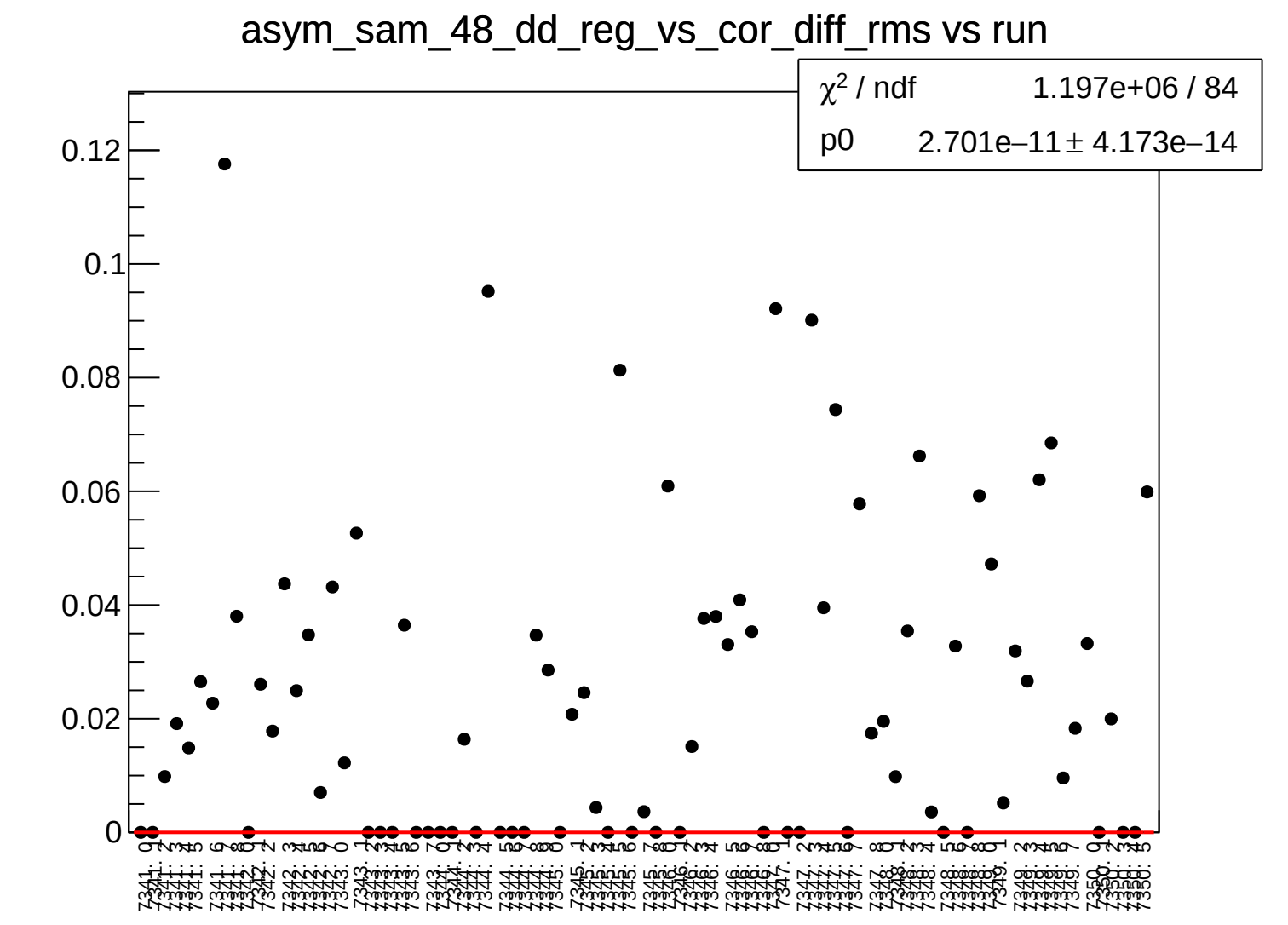

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2900 / 84
p0 1097 ± 0.8637
1200
1150
1100
1050
1000

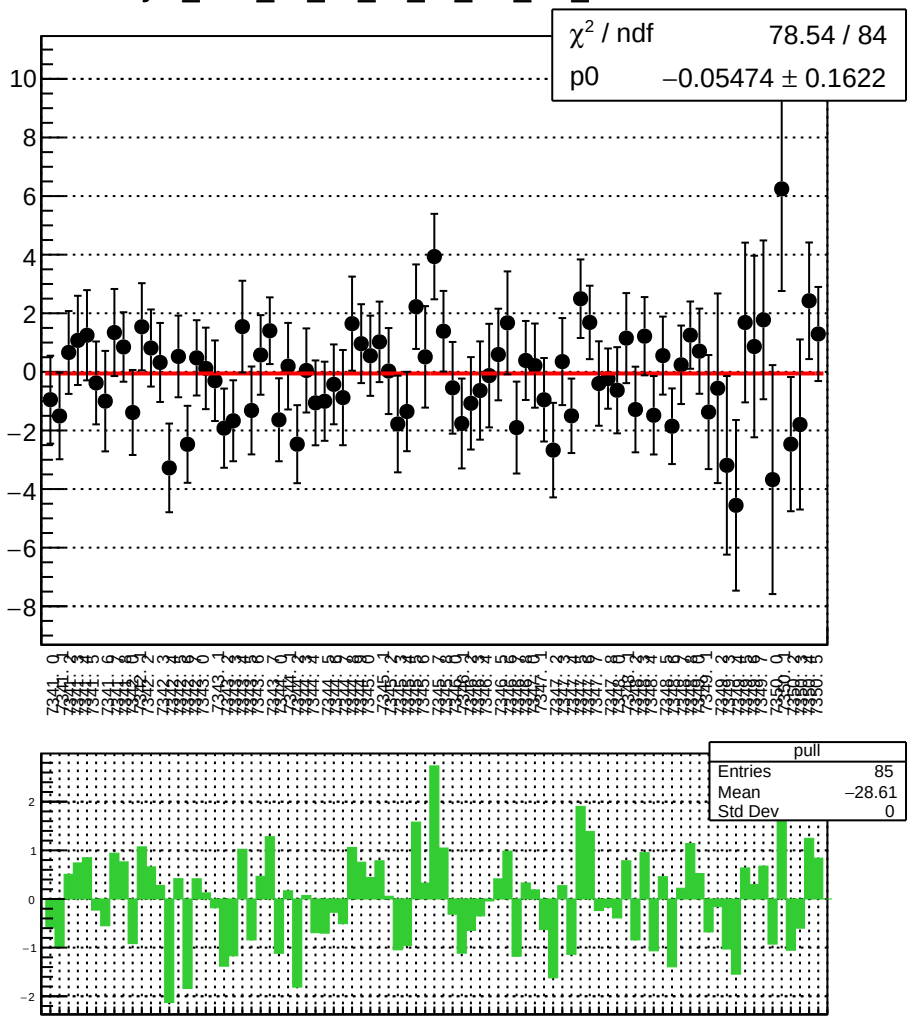

asym_sam_48_dd_mean vs run
χ² / ndf 77.84 / 84
p0 2025 ± 1284
pull
Entries 85
Mean 59.9
Std Dev 37.61
pull1D
Entries 85
Mean −0.01283
Std Dev 0.9569

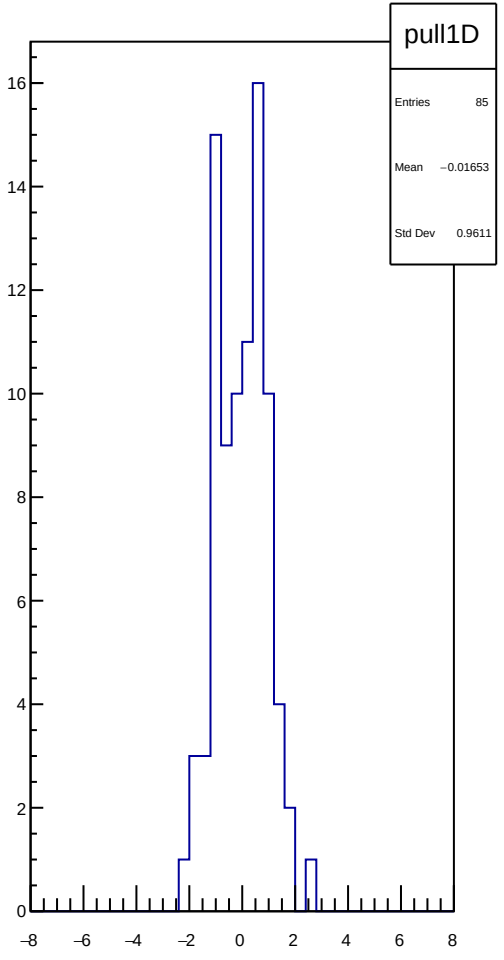

asym_sam_48_dd_rms vs run
χ² / ndf 8340 / 84
p0 1151 ± 0.9079
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

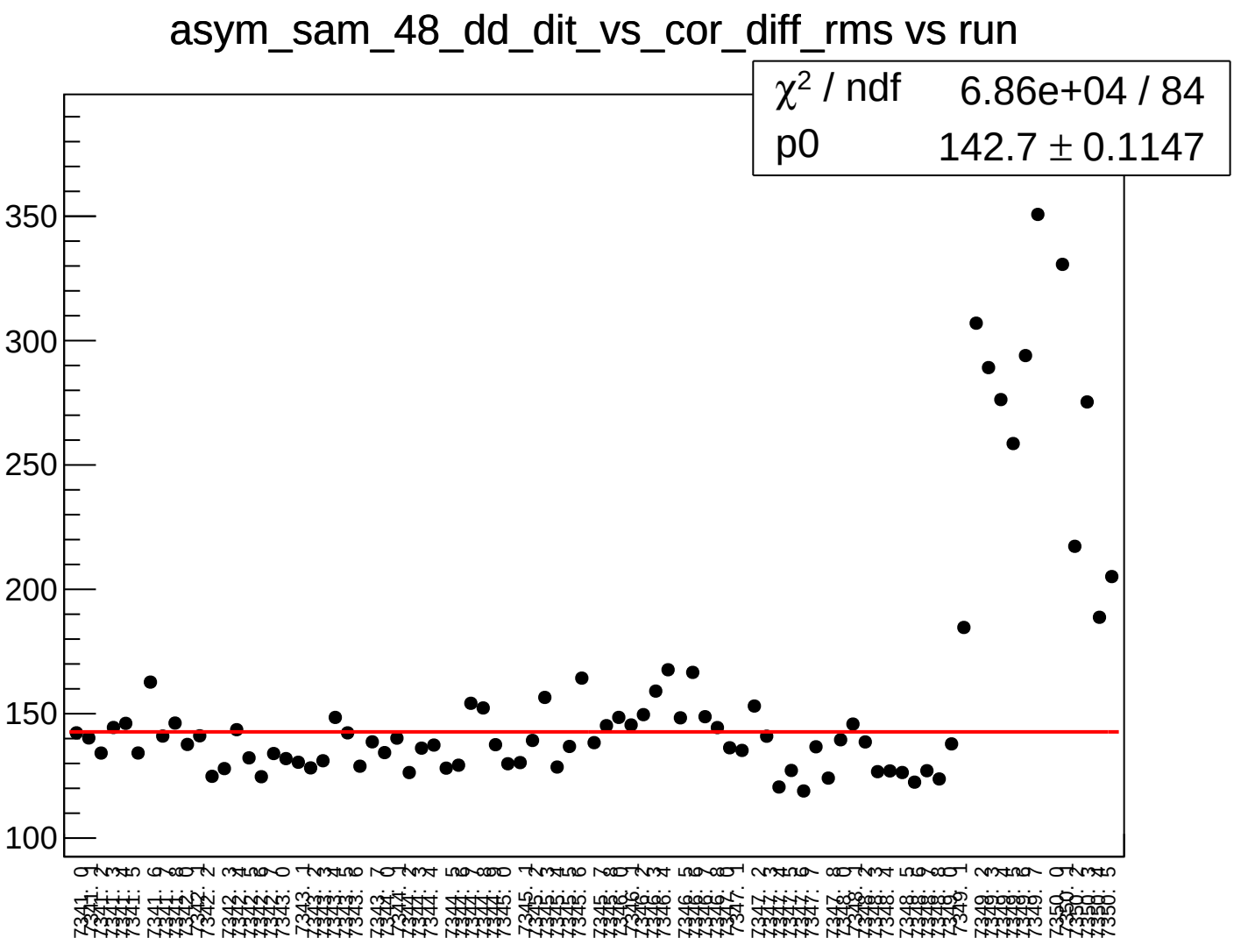

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.97 / 84
p0 −1.201e−13 ± 5.901e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 85
Mean −8.215
Std Dev 0
2
1
0
−1
−2
−3

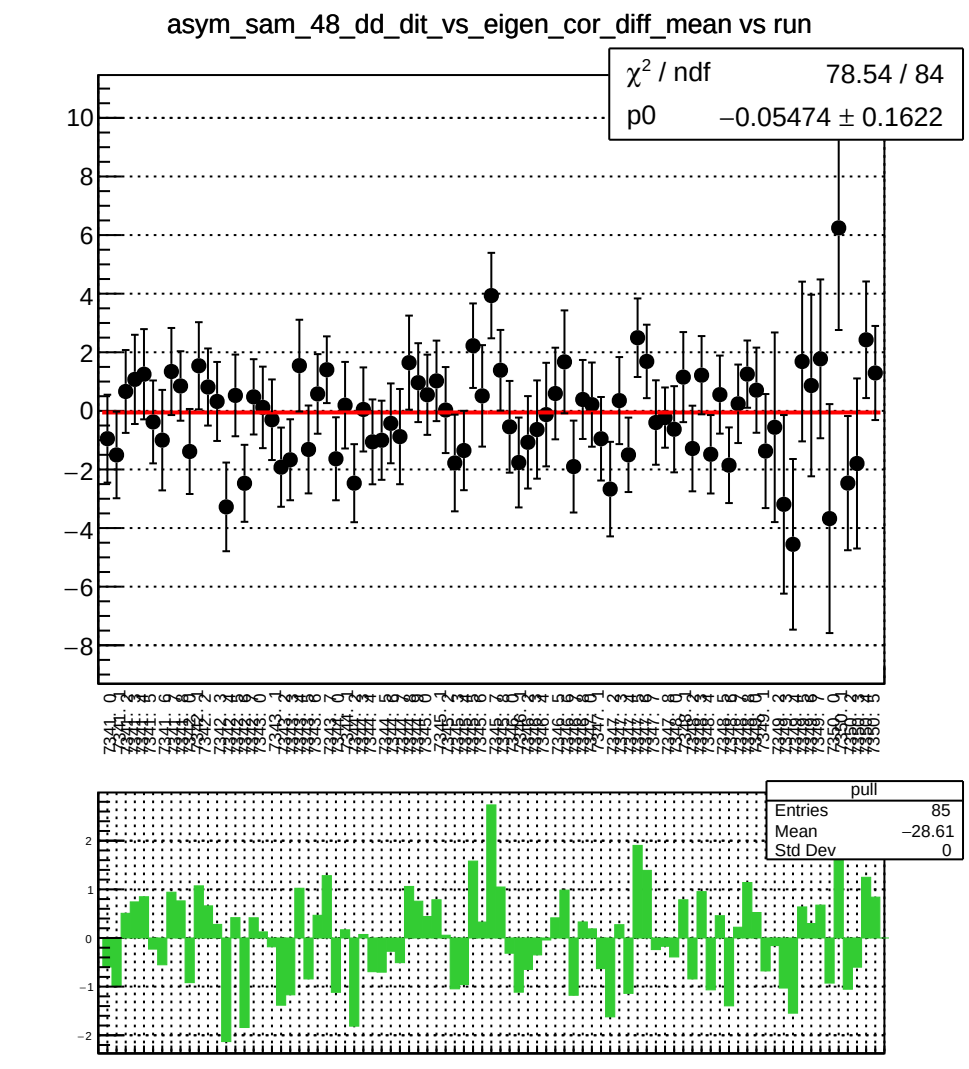

pull1D
Entries 85
Mean −0.01543
Std Dev 0.9938
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

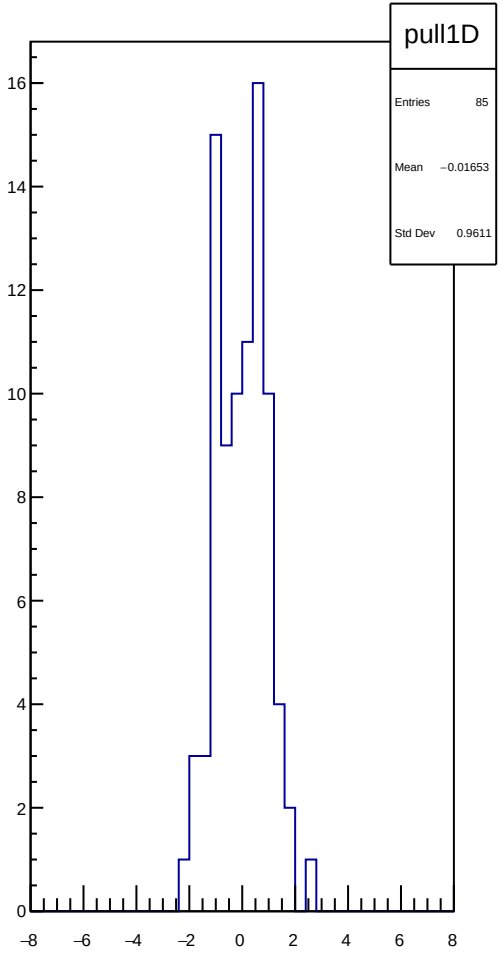

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.197e+06 / 84
p0 2.701e−11 ± 4.173e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

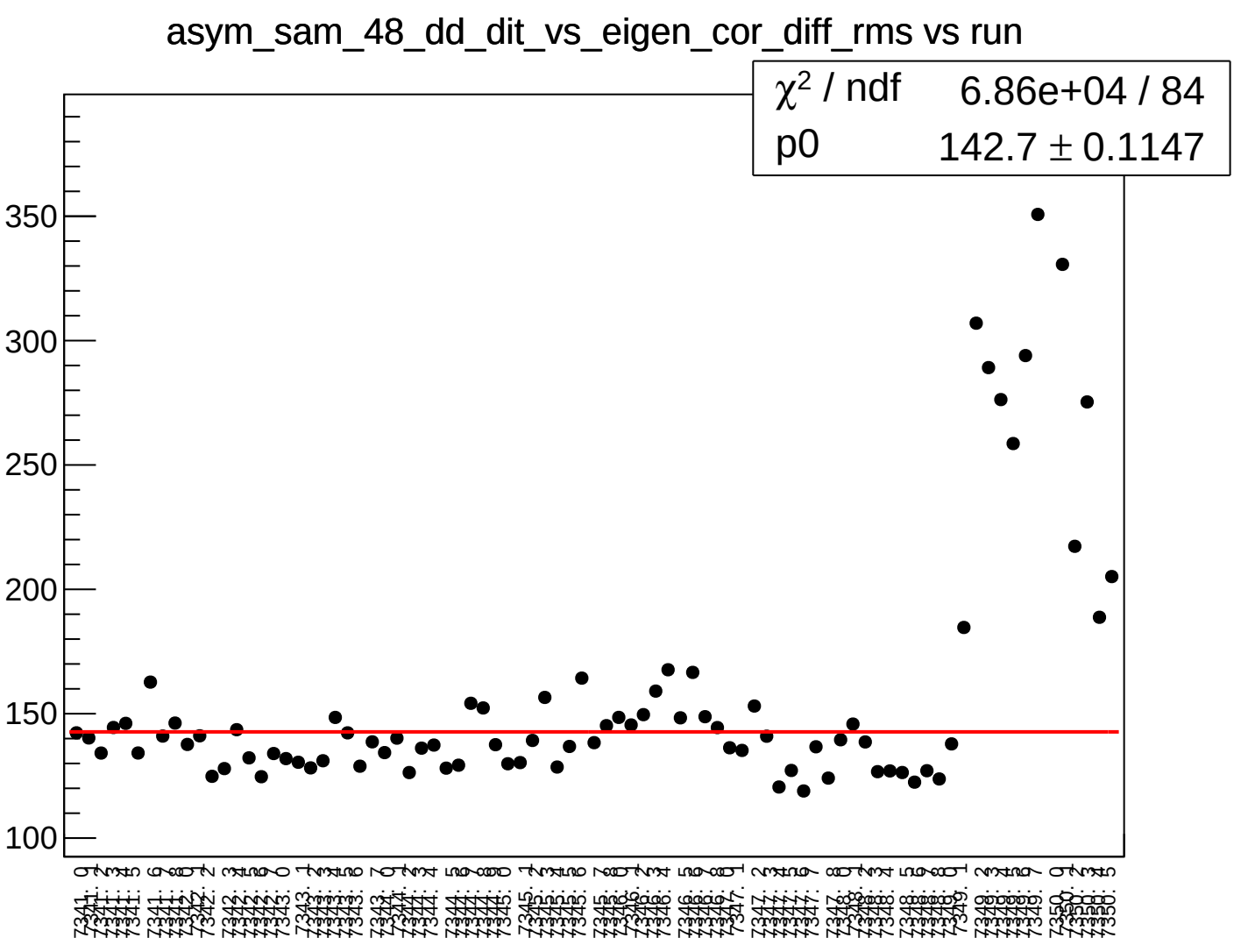

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.05474 ± 0.1622
pull
Entries 85
Mean −28.61
Std Dev 0

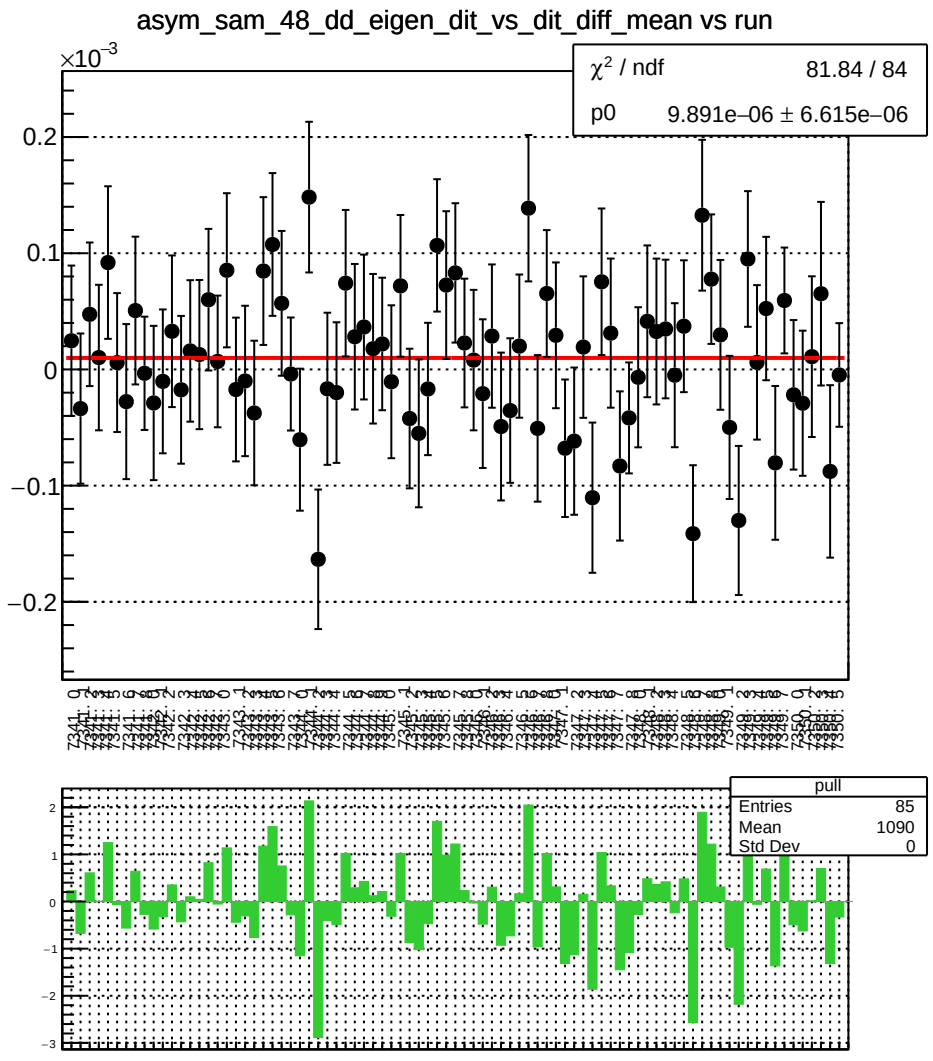

pull1D
Entries 85
Mean −0.01653
Std Dev 0.9611

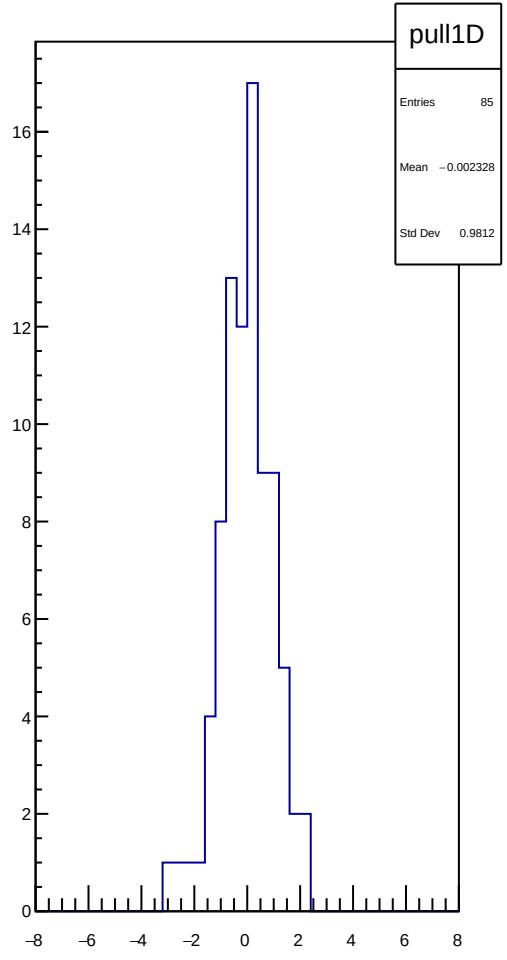

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 84
p0 142.7 ± 0.1147
350
300
250
200
150
100

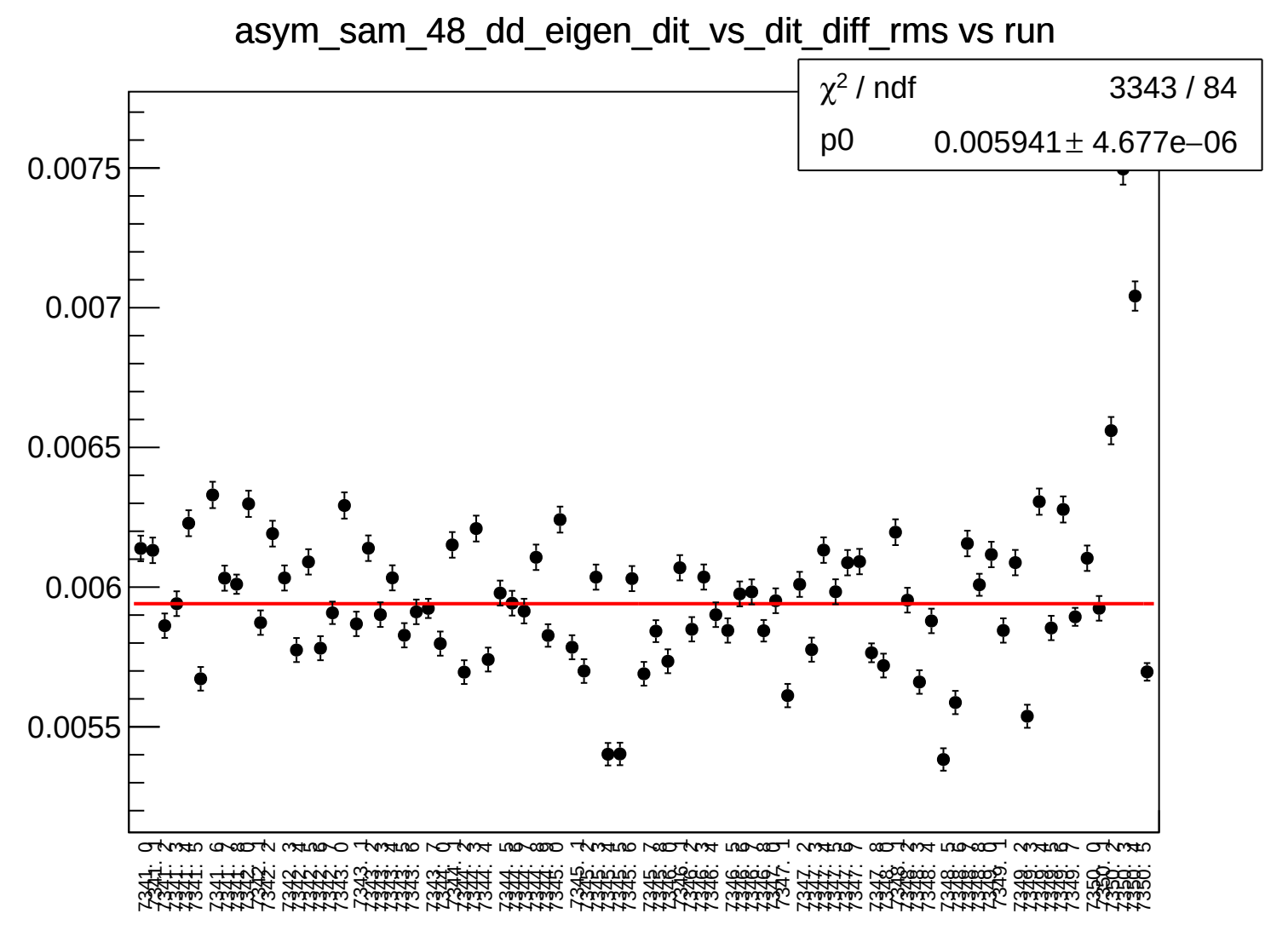

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.05474 ± 0.1622
pull
Entries 85
Mean −28.61
Std Dev 0

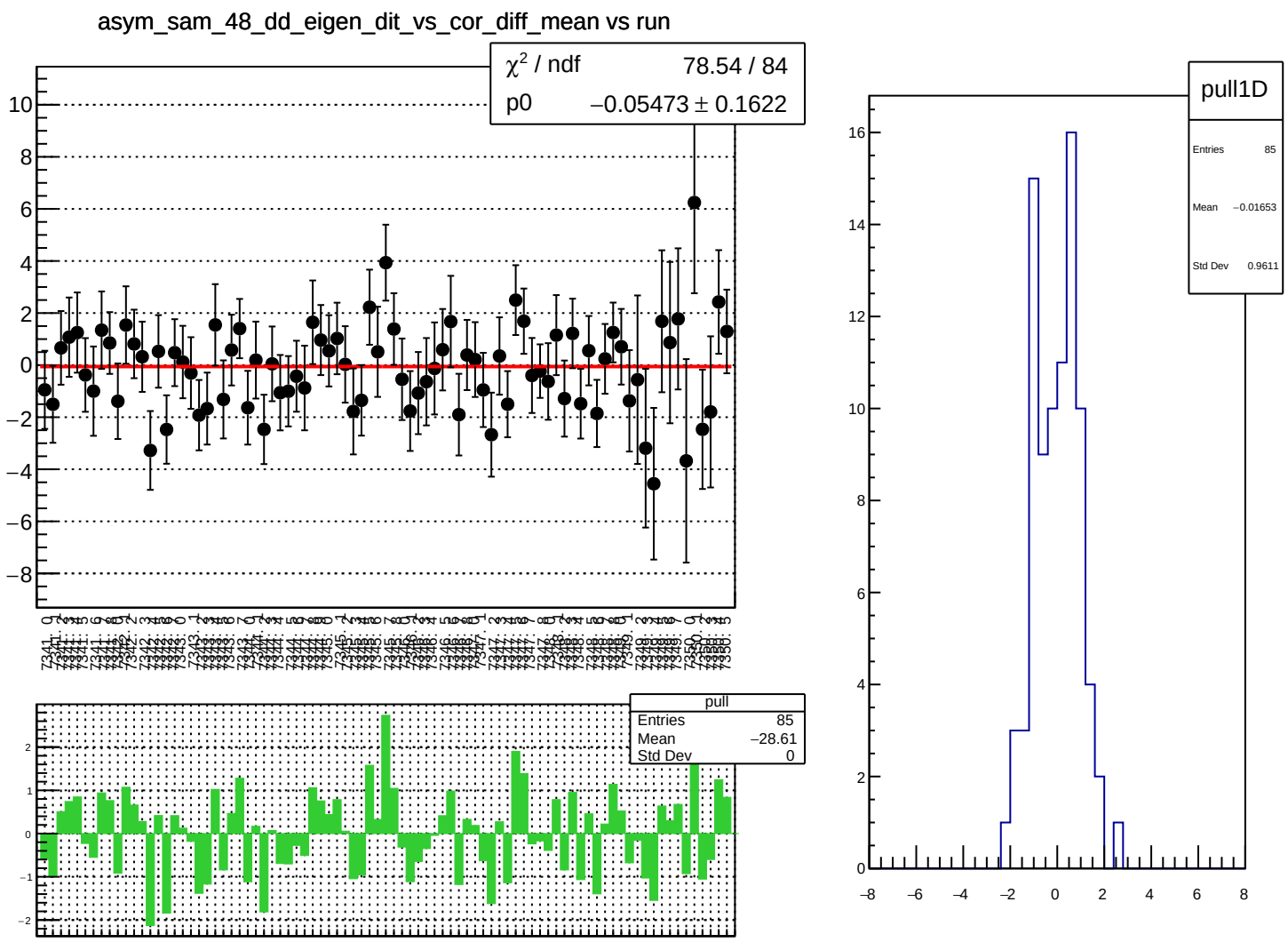

pull1D
Entries 85
Mean −0.01653
Std Dev 0.9611

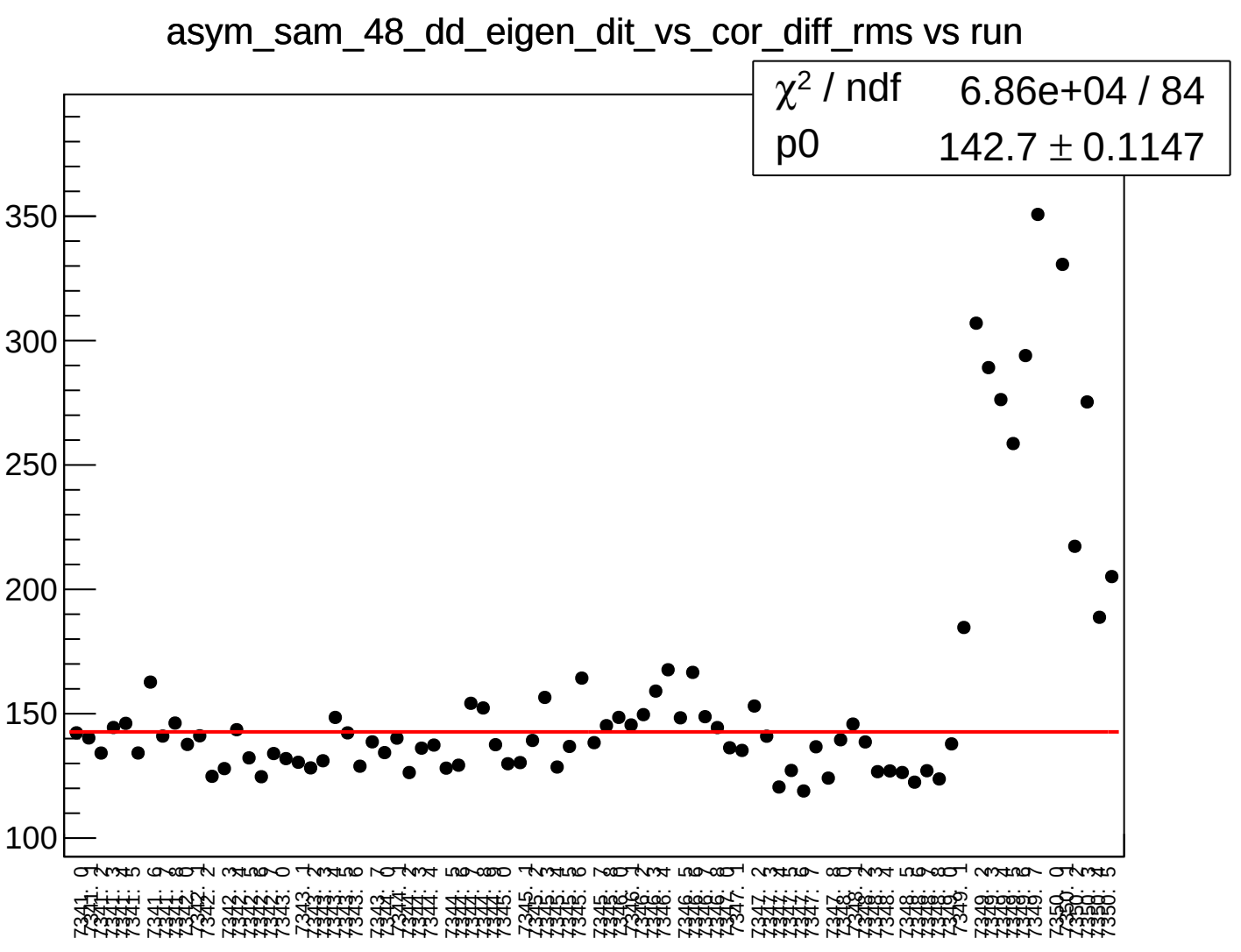

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 84
p0 142.7 ± 0.1147
350
300
250
200
150
100

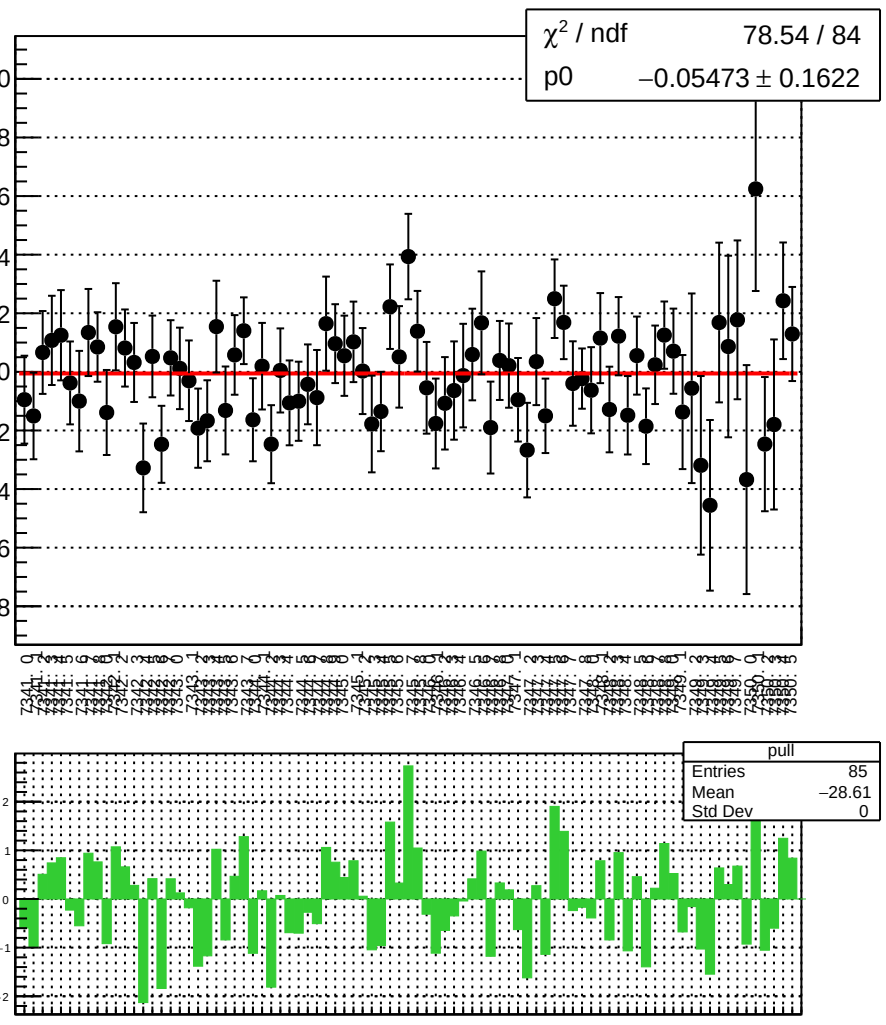

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.84 / 84
p0 9.891e−06 ± 6.615e−06
pull
Entries 85
Mean 1090
Std Dev 0

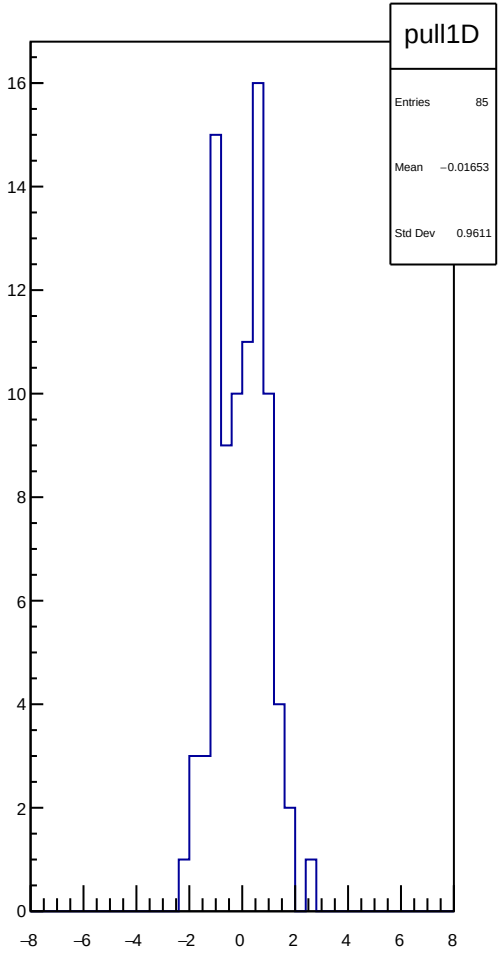

pull1D
Entries 85
Mean −0.002328
Std Dev 0.9812

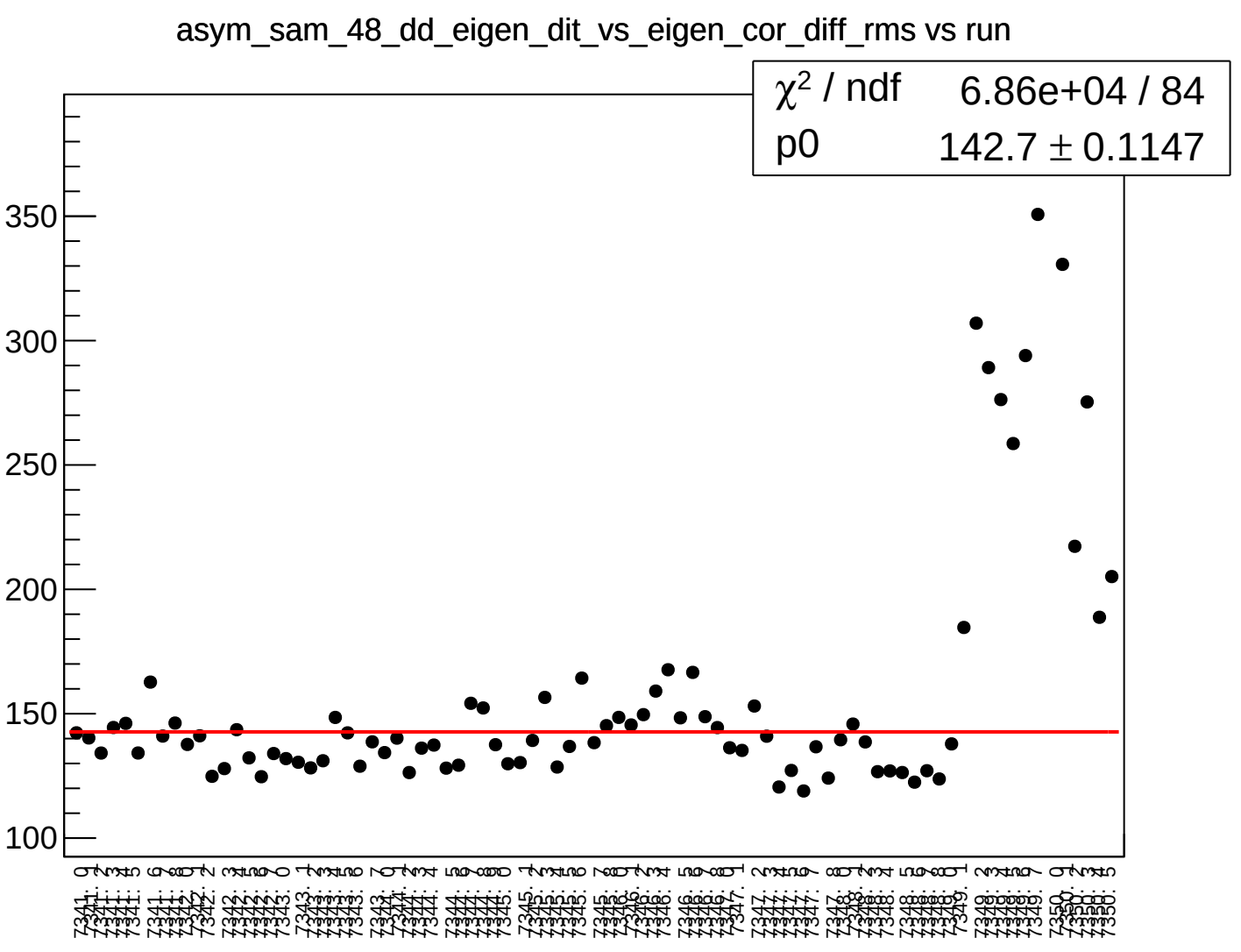

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3343 / 84
p0 0.005941 ± 4.677e−06
0.0075
0.007
0.0065
0.006
0.0055

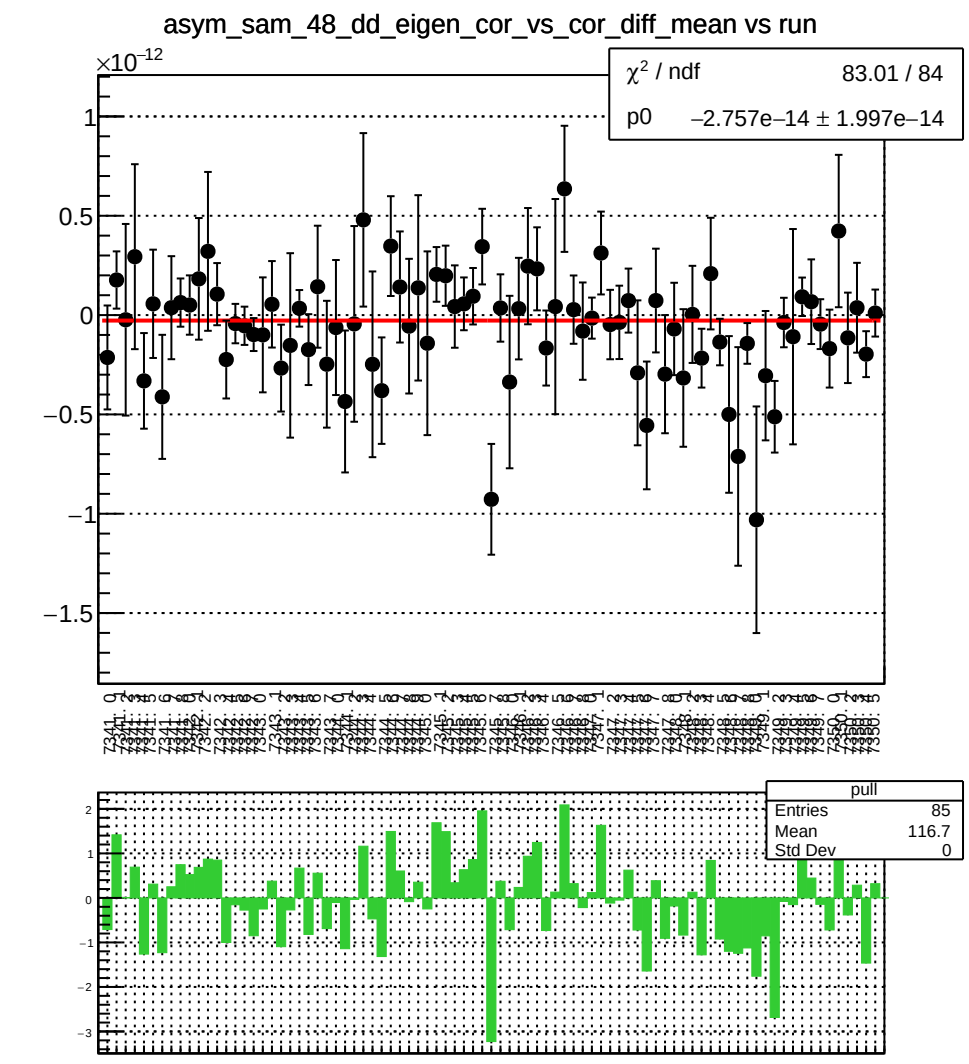

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.05473 ± 0.1622
pull
Entries 85
Mean −28.61
Std Dev 0
pull1D
Entries 85
Mean −0.01653
Std Dev 0.9611

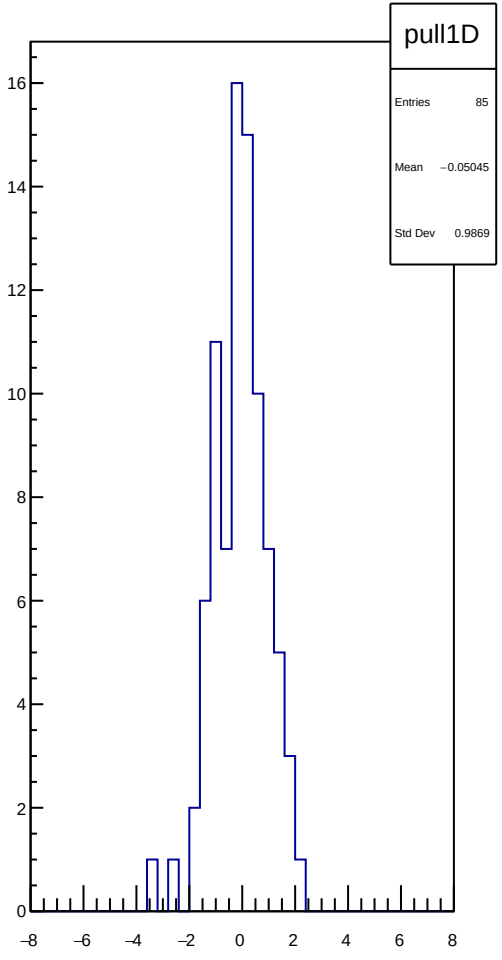

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 84
p0 142.7 ± 0.1147
350
300
250
200
150
100

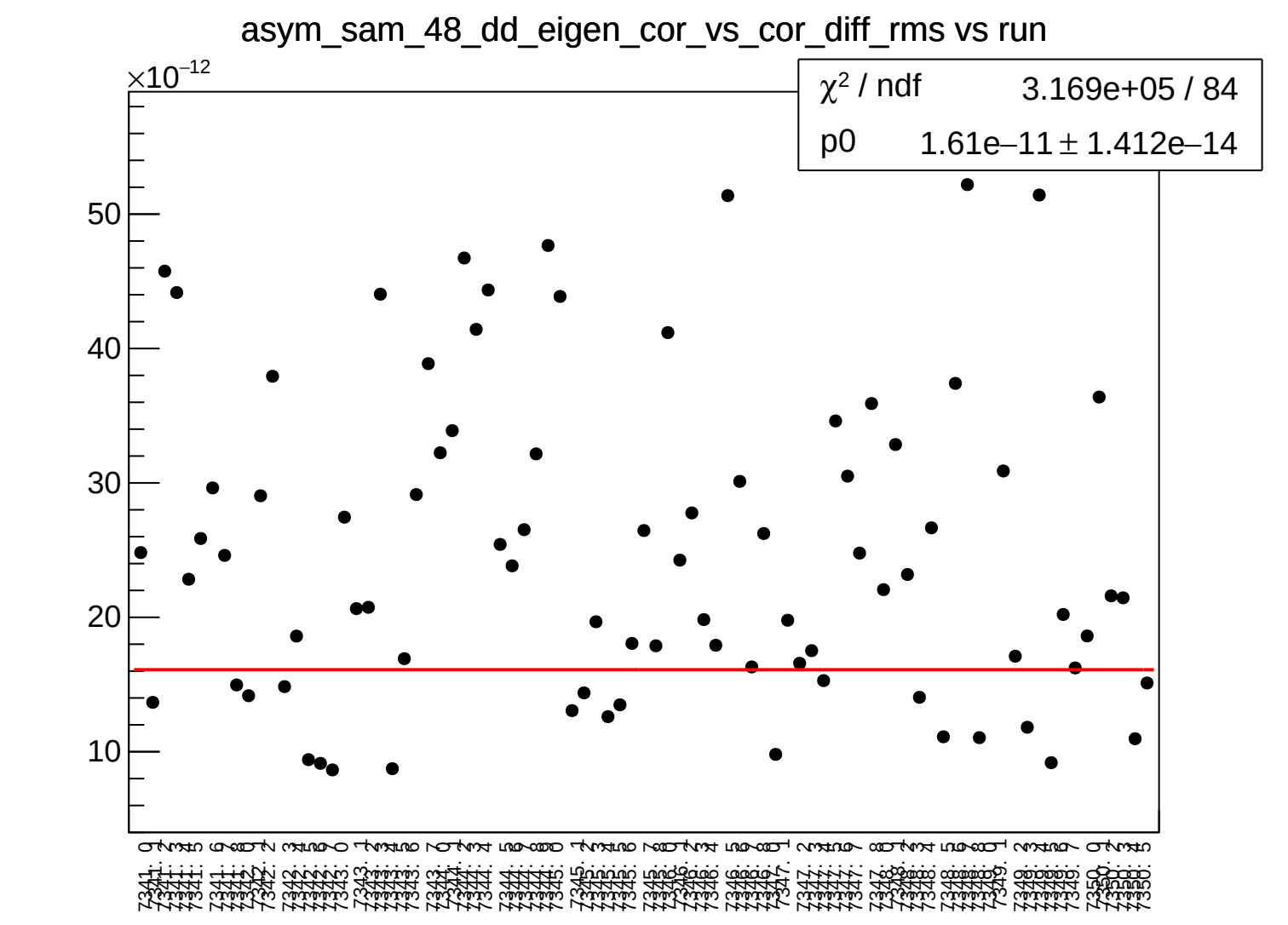

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.54 / 84
p0 −0.05473 ± 0.1622
pull
Entries 85
Mean −28.61
Std Dev 0

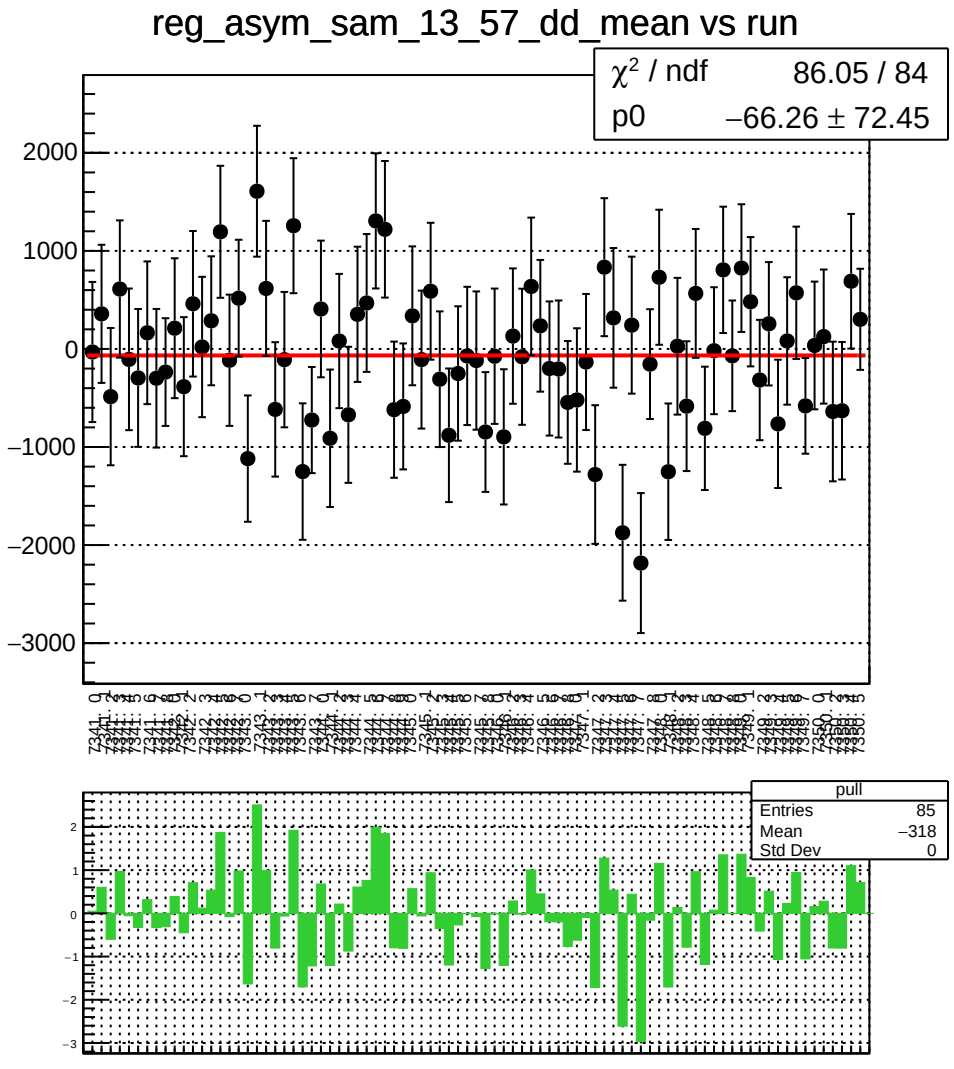

pull1D
Entries 85
Mean −0.01653
Std Dev 0.9611

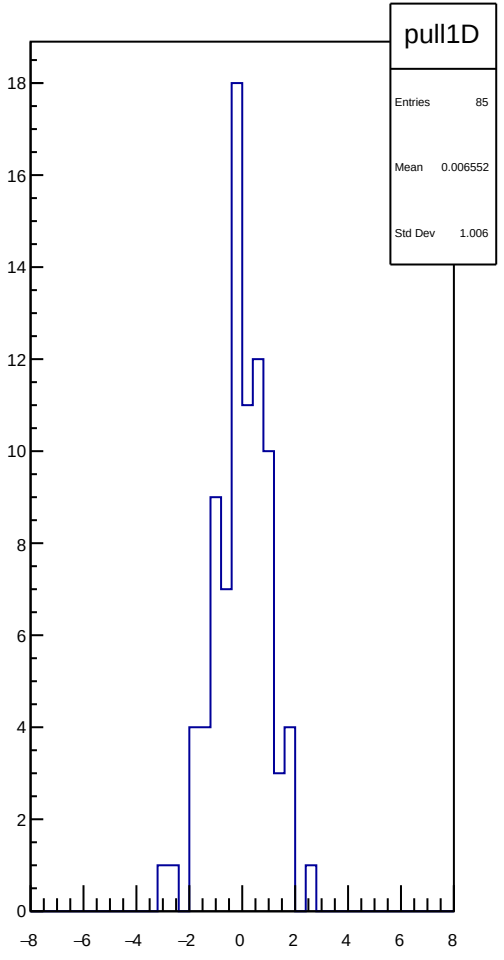

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 84
p0 142.7 ± 0.1147
350
300
250
200
150
100

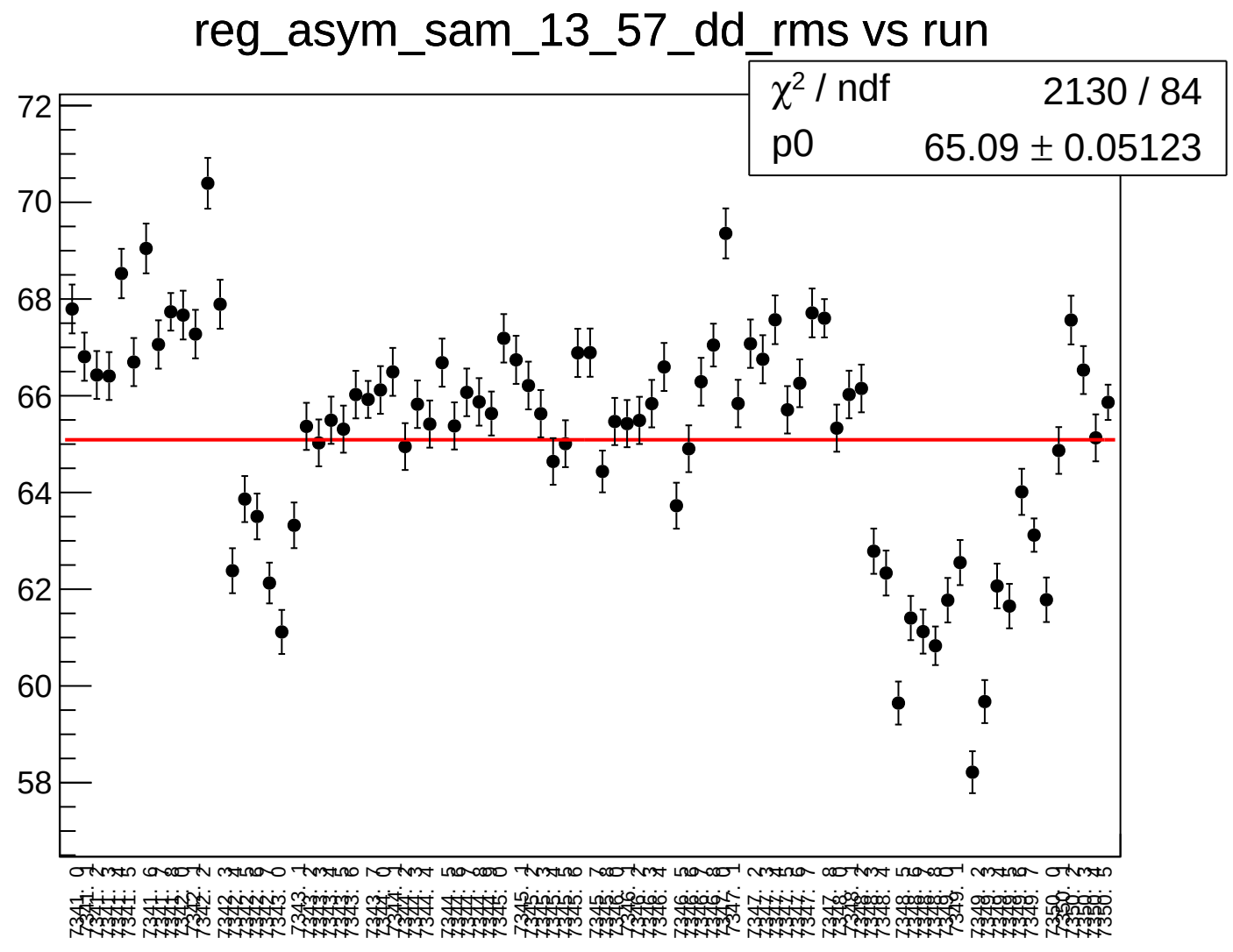

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.01 / 84
p0 −2.757e−14 ± 1.997e−14
pull
Entries 85
Mean 116.7
Std Dev 0

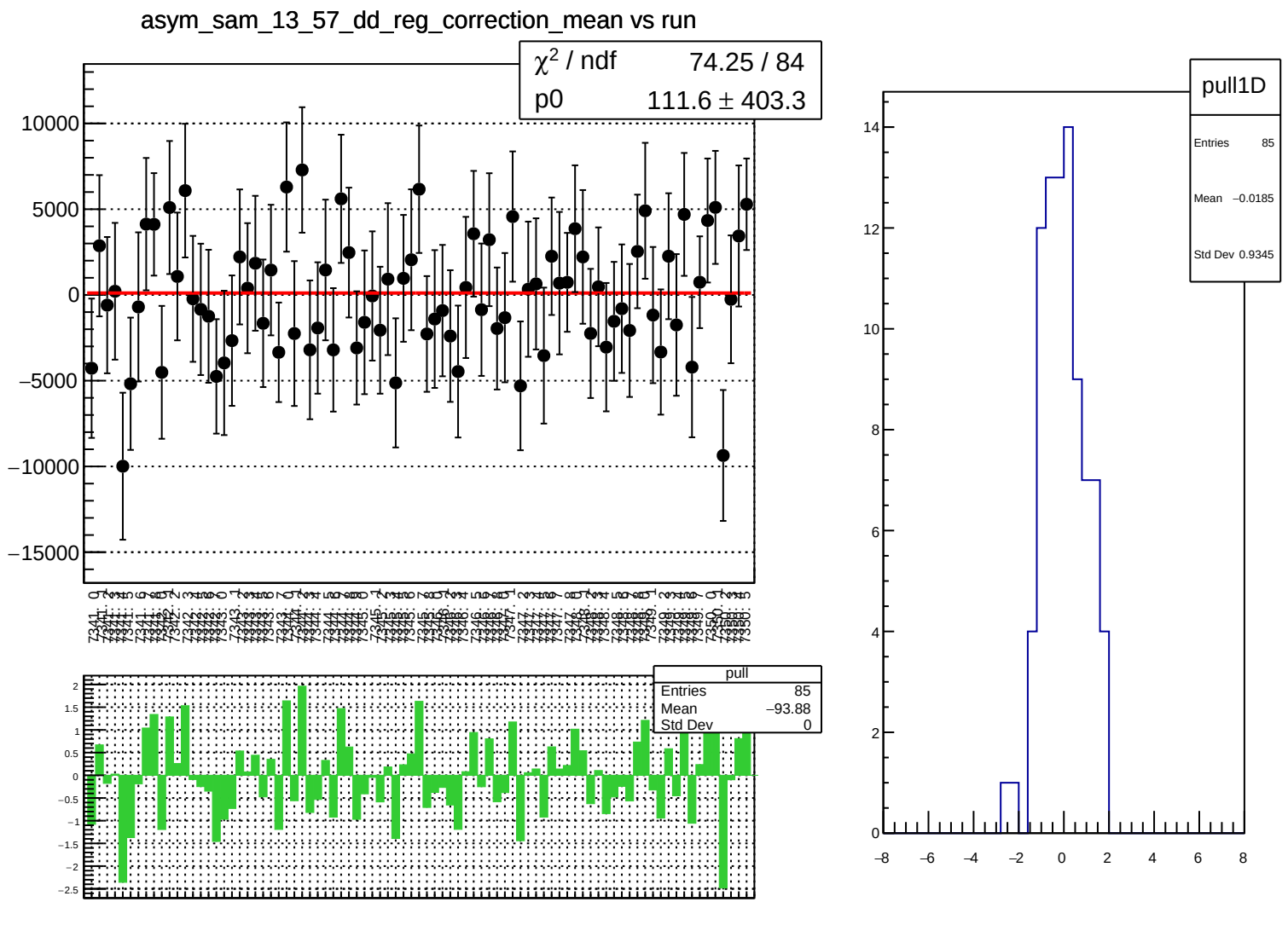

pull1D
Entries 85
Mean −0.05045
Std Dev 0.9869

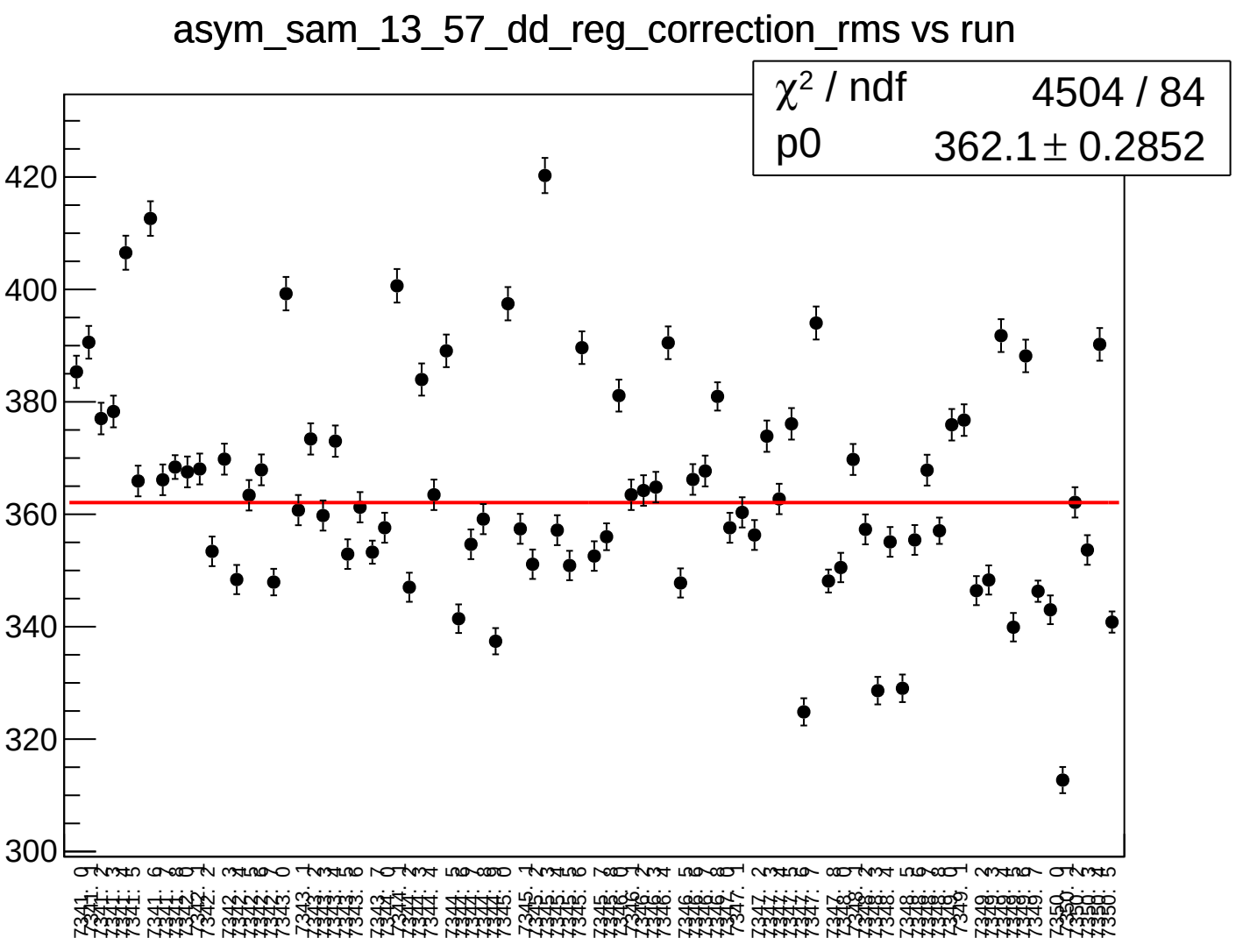

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.169e+05 / 84
p0 1.61e−11 ± 1.412e−14
50
40
30
20
10

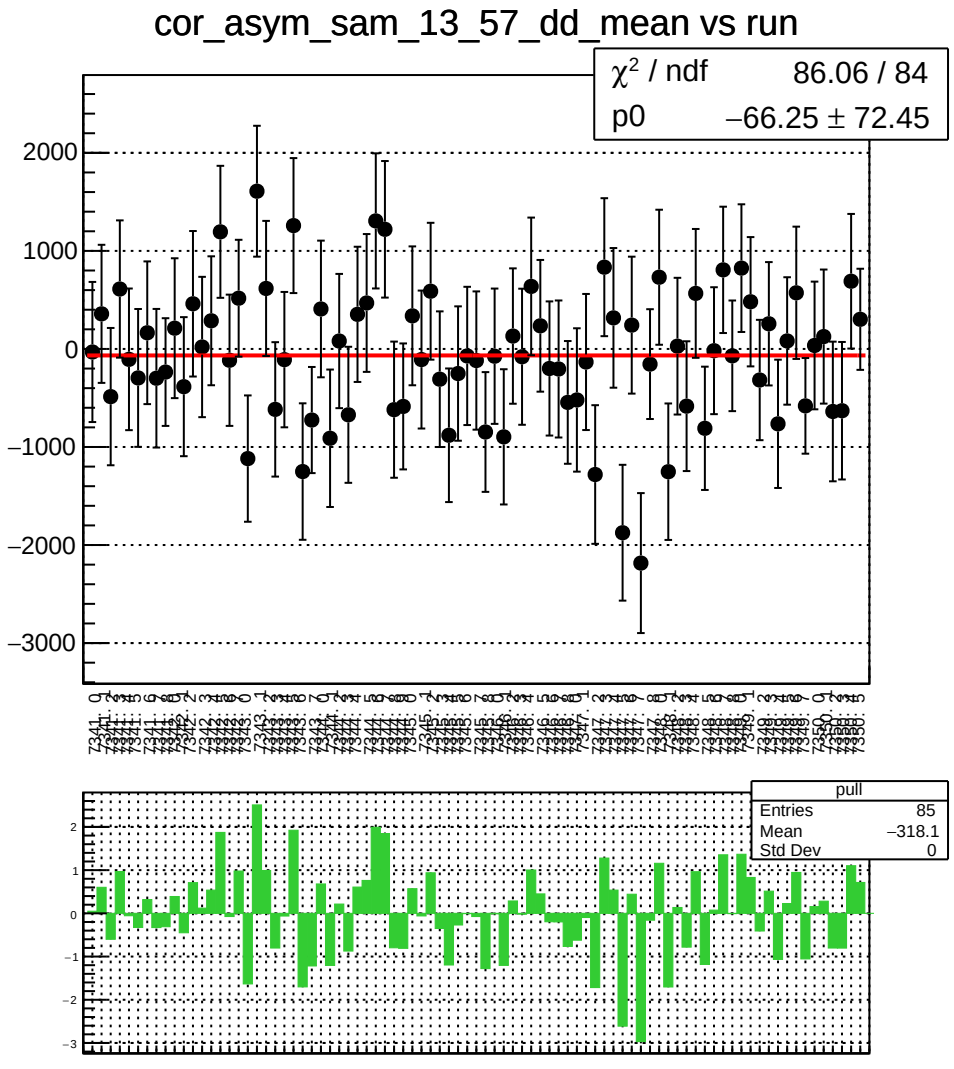

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 86.05 / 84
p0 −66.26 ± 72.45
pull
Entries 85
Mean −318
Std Dev 0

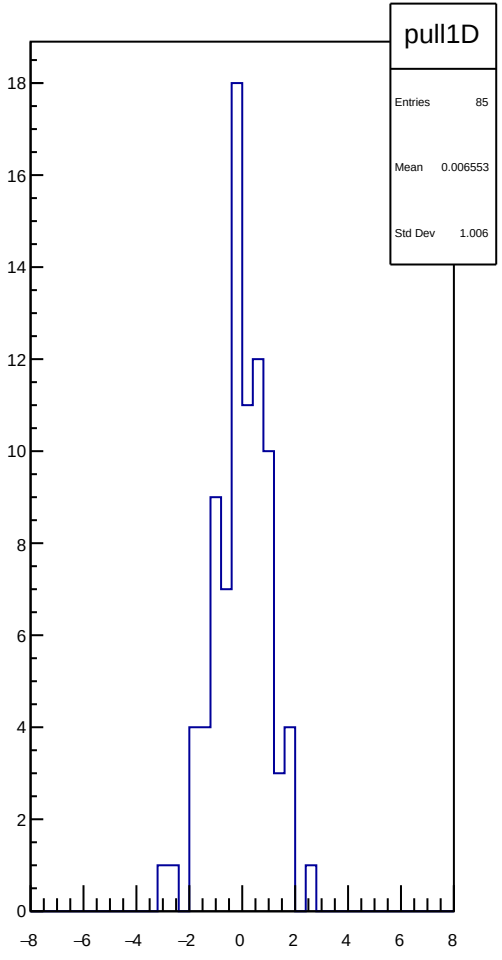

pull1D
Entries 85
Mean 0.006552
Std Dev 1.006

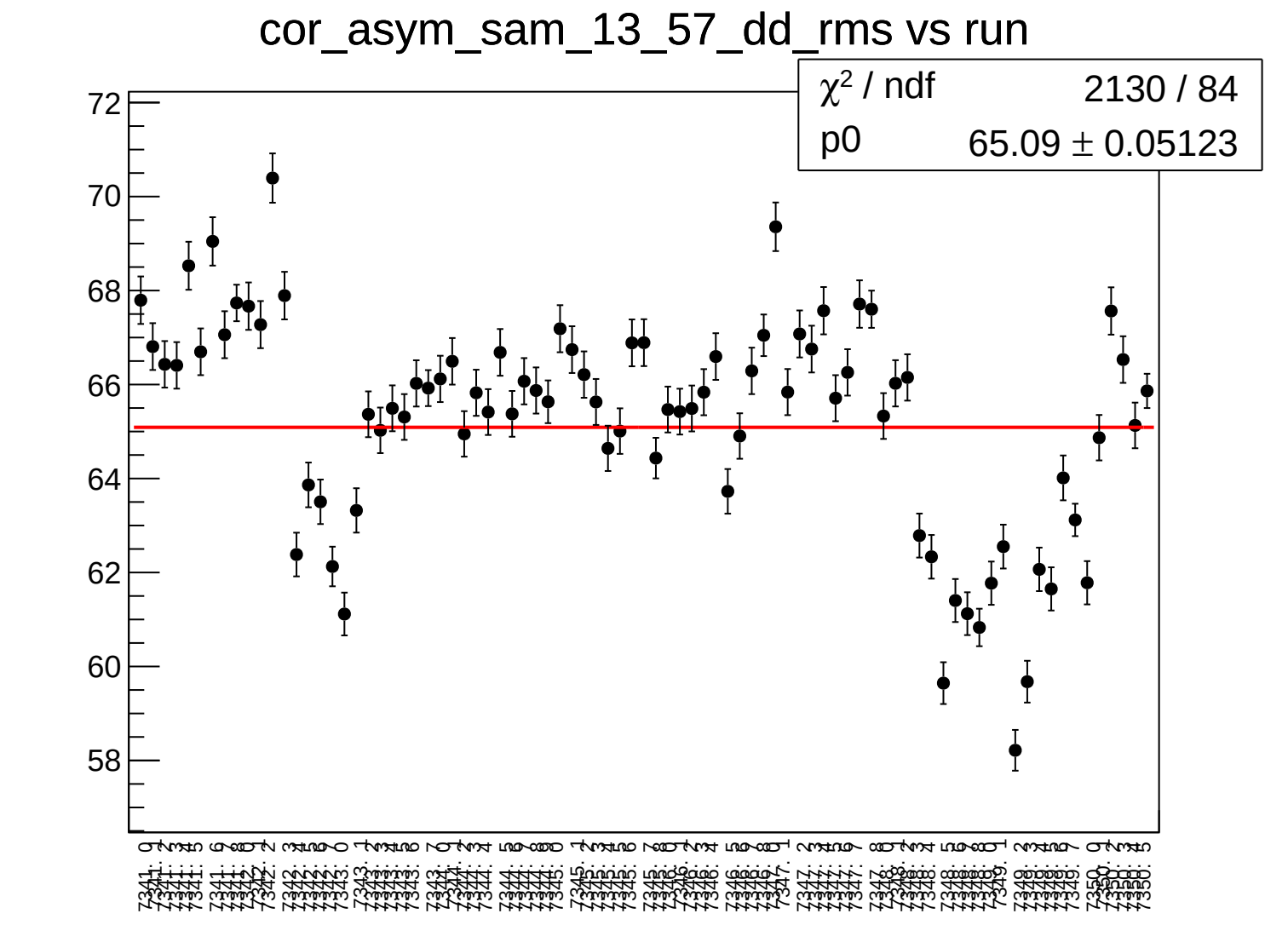

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2130 / 84
p0 65.09 ± 0.05123
72
70
68
66
64
62
60
58

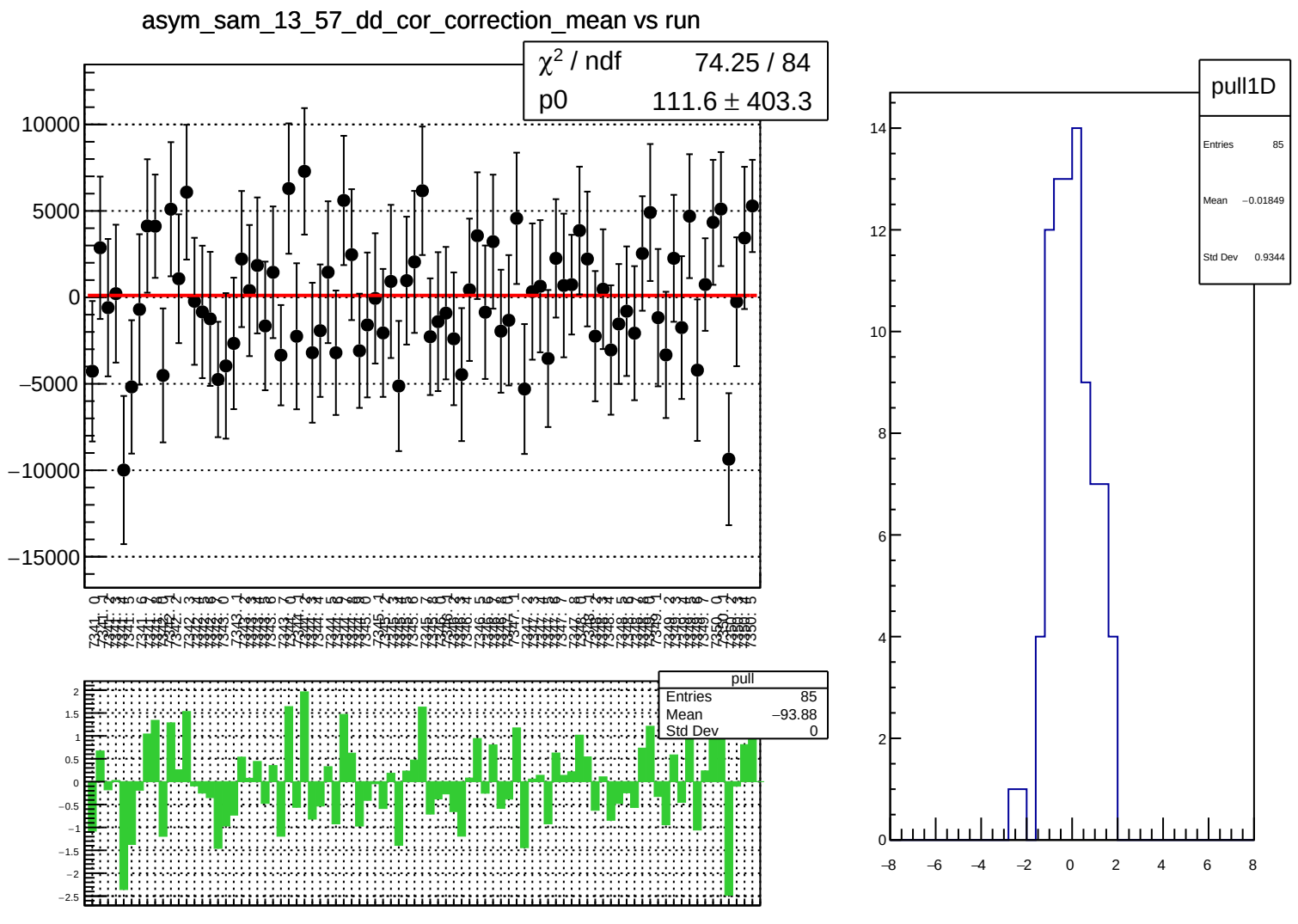

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 74.25 / 84
p0 111.6 ± 403.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −93.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean −0.0185
Std Dev 0.9345
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

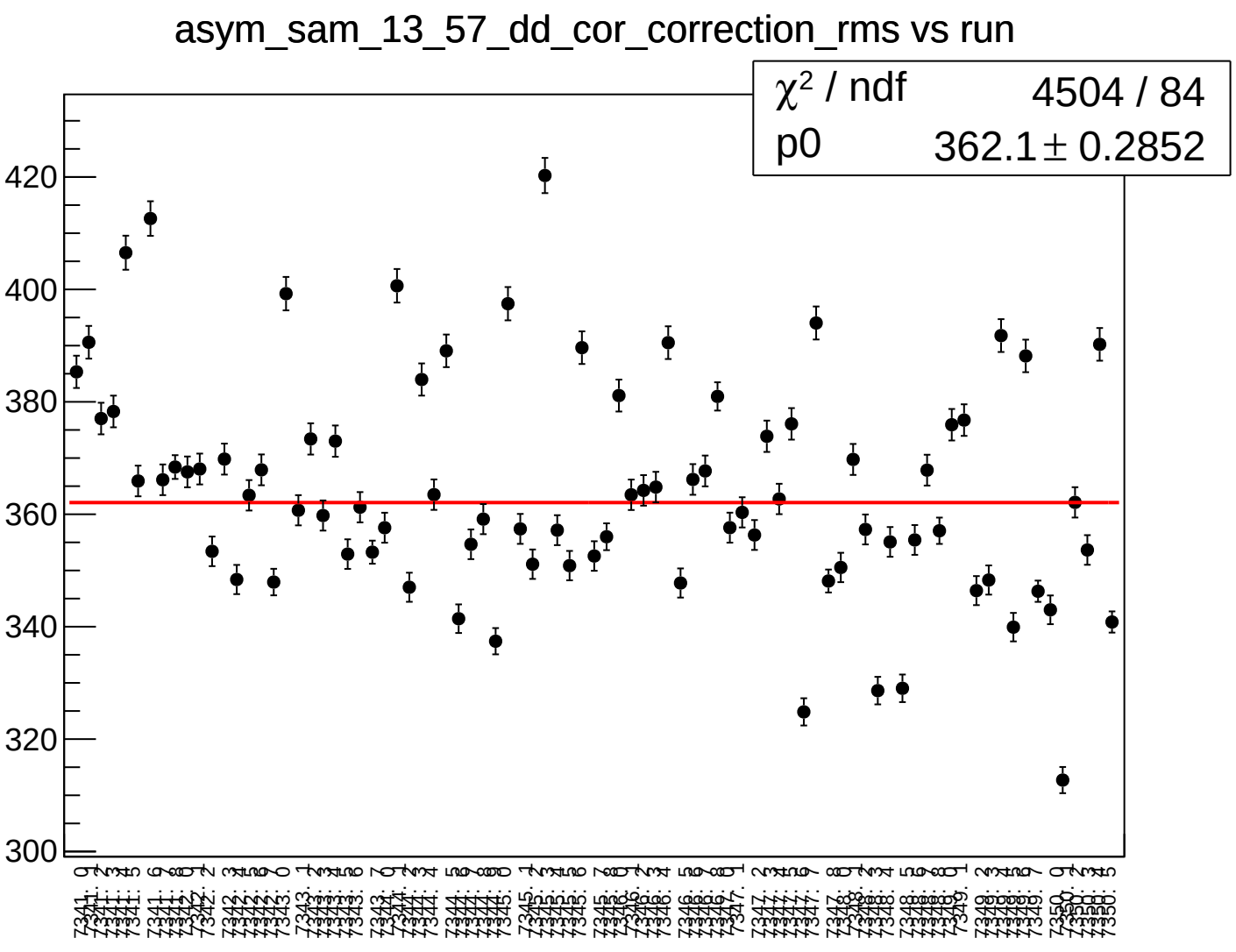

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 4504 / 84
p0 362.1 ± 0.2852
420
400
380
360
340
320
300

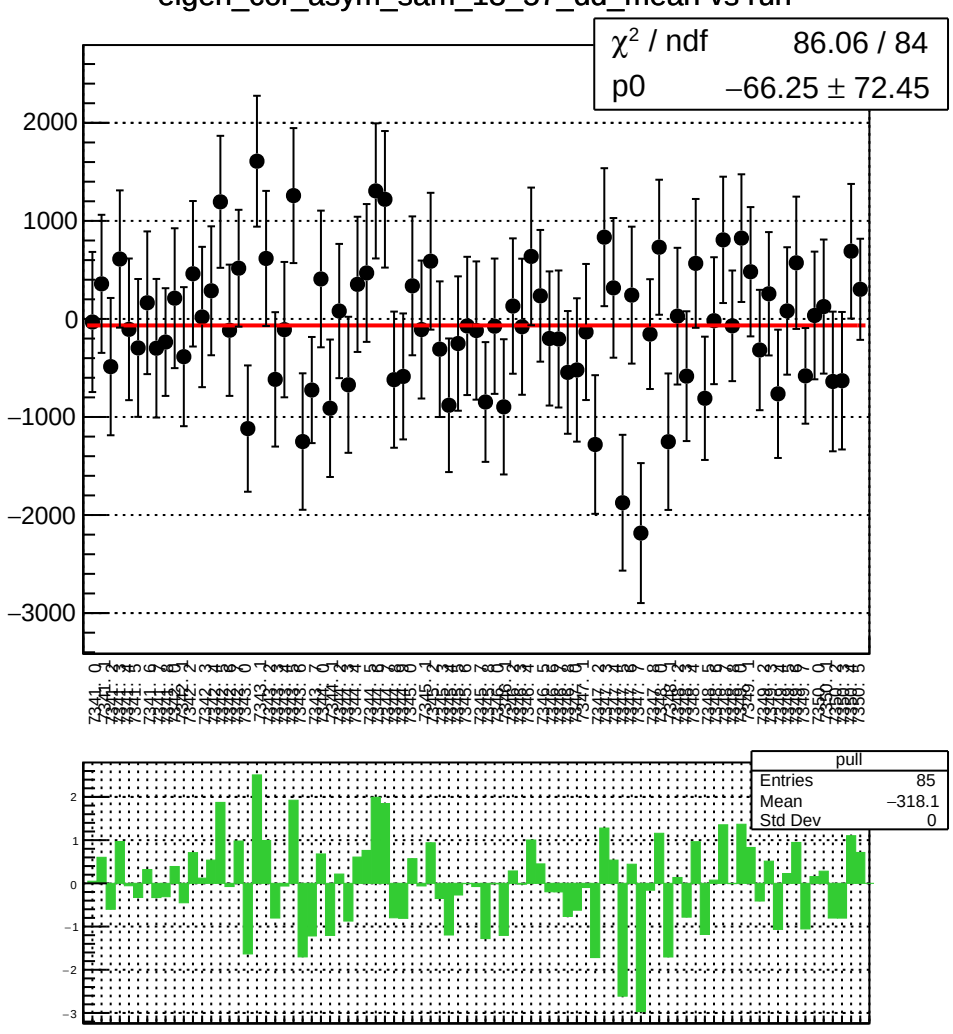

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 86.06 / 84
p0 −66.25 ± 72.45
pull
Entries 85
Mean −318.1
Std Dev 0

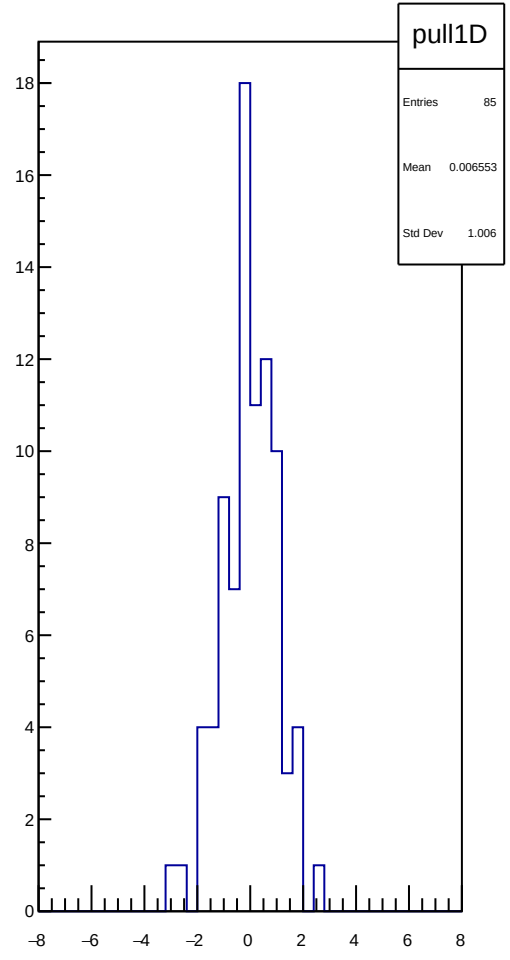

pull1D
Entries 85
Mean 0.006553
Std Dev 1.006

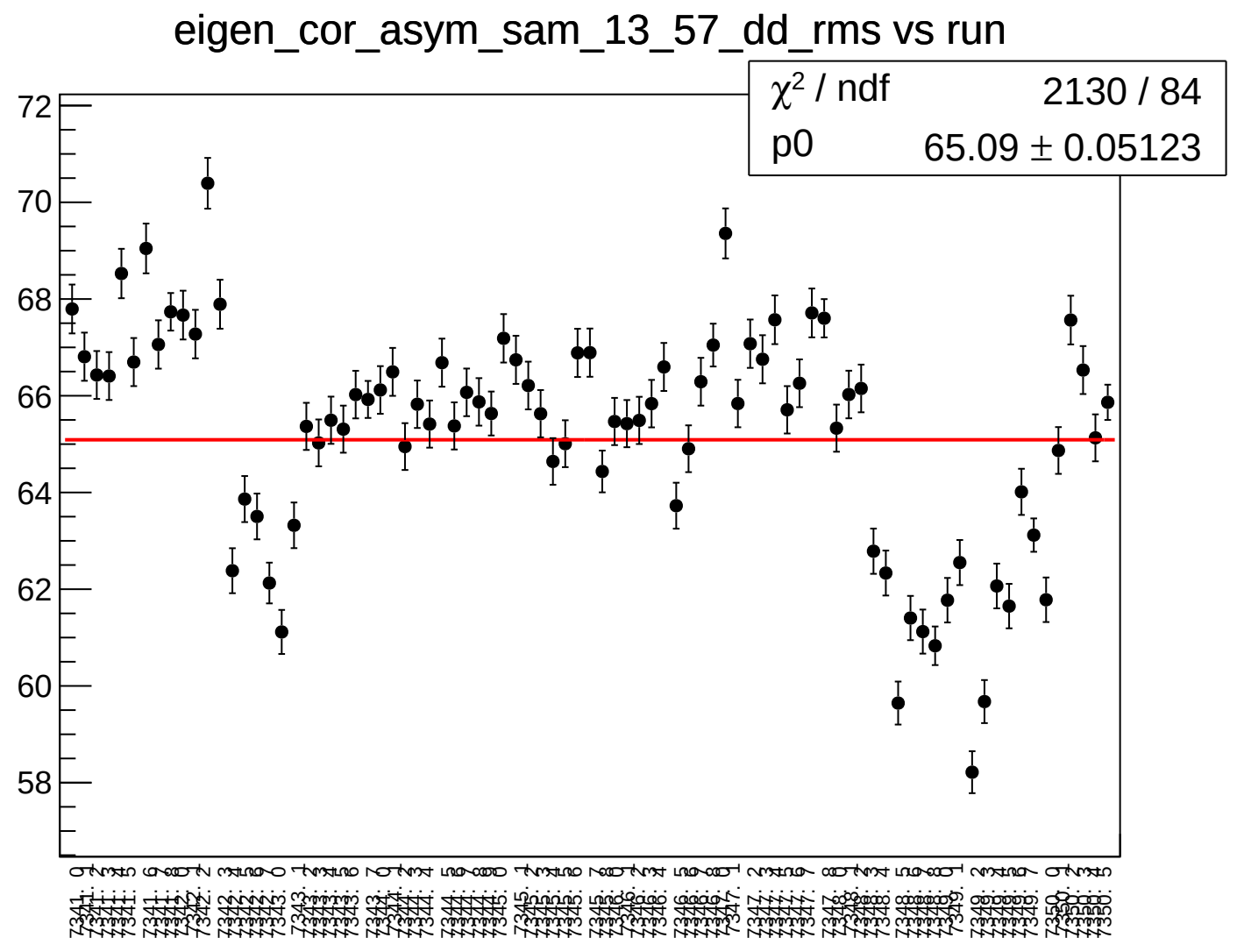

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2130 / 84
p0 65.09 ± 0.05123
72
70
68
66
64
62
60
58

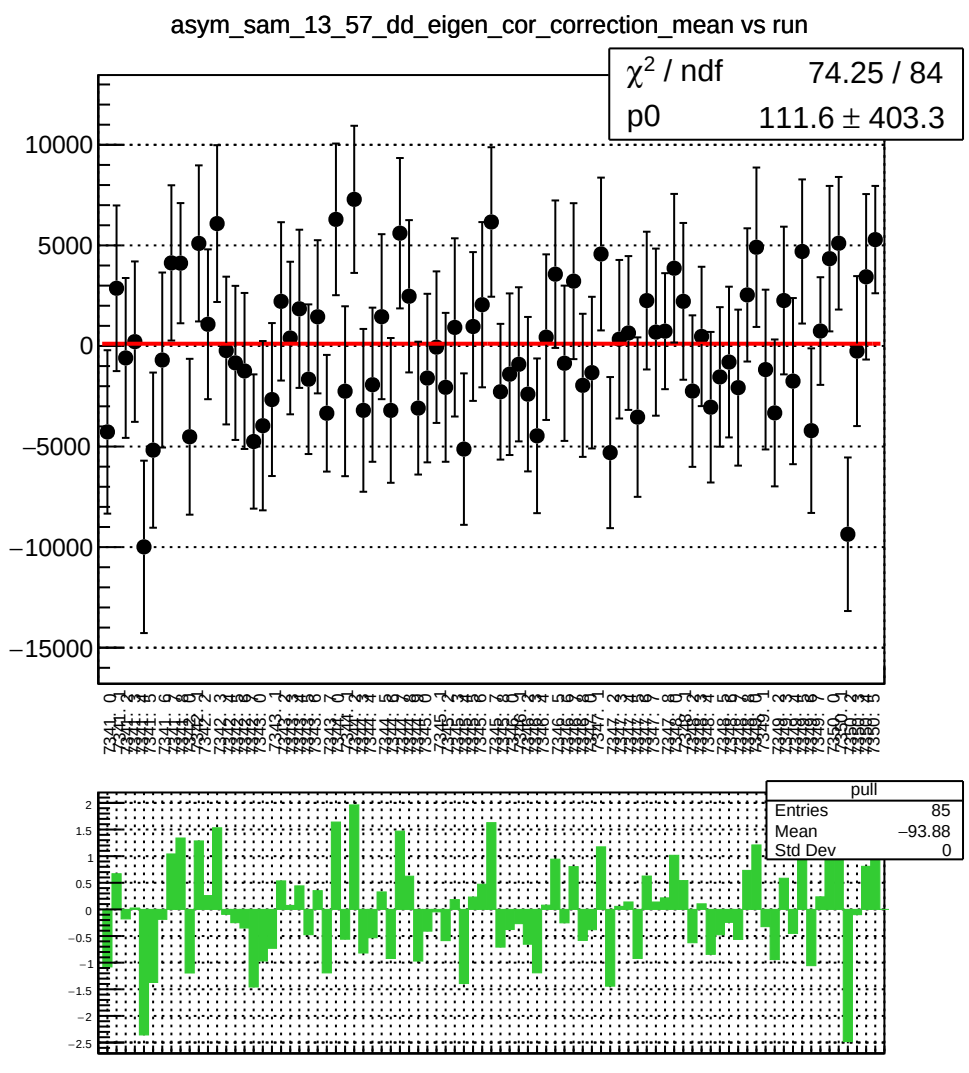

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 74.25 / 84
p0 111.6 ± 403.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −93.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean −0.01849
Std Dev 0.9344
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

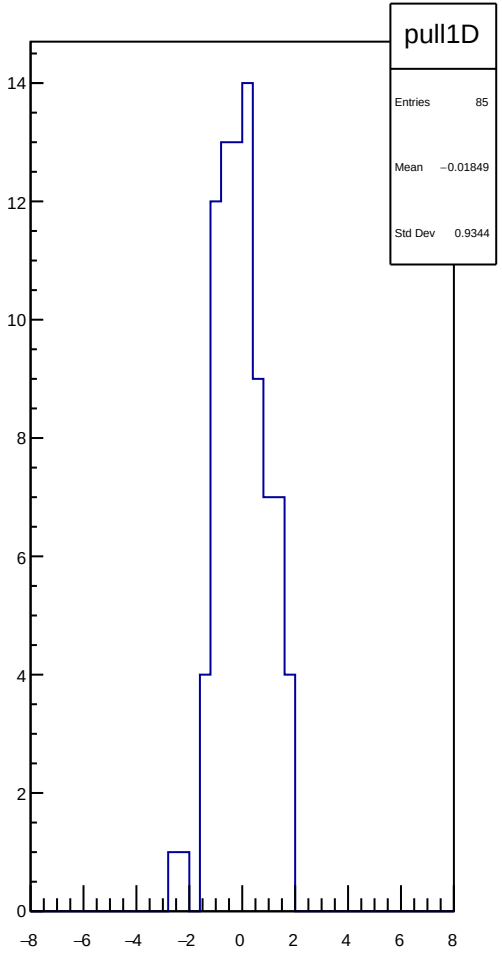

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 4504 / 84
p0 362.1 ± 0.2852
420
400
380
360
340
320
300

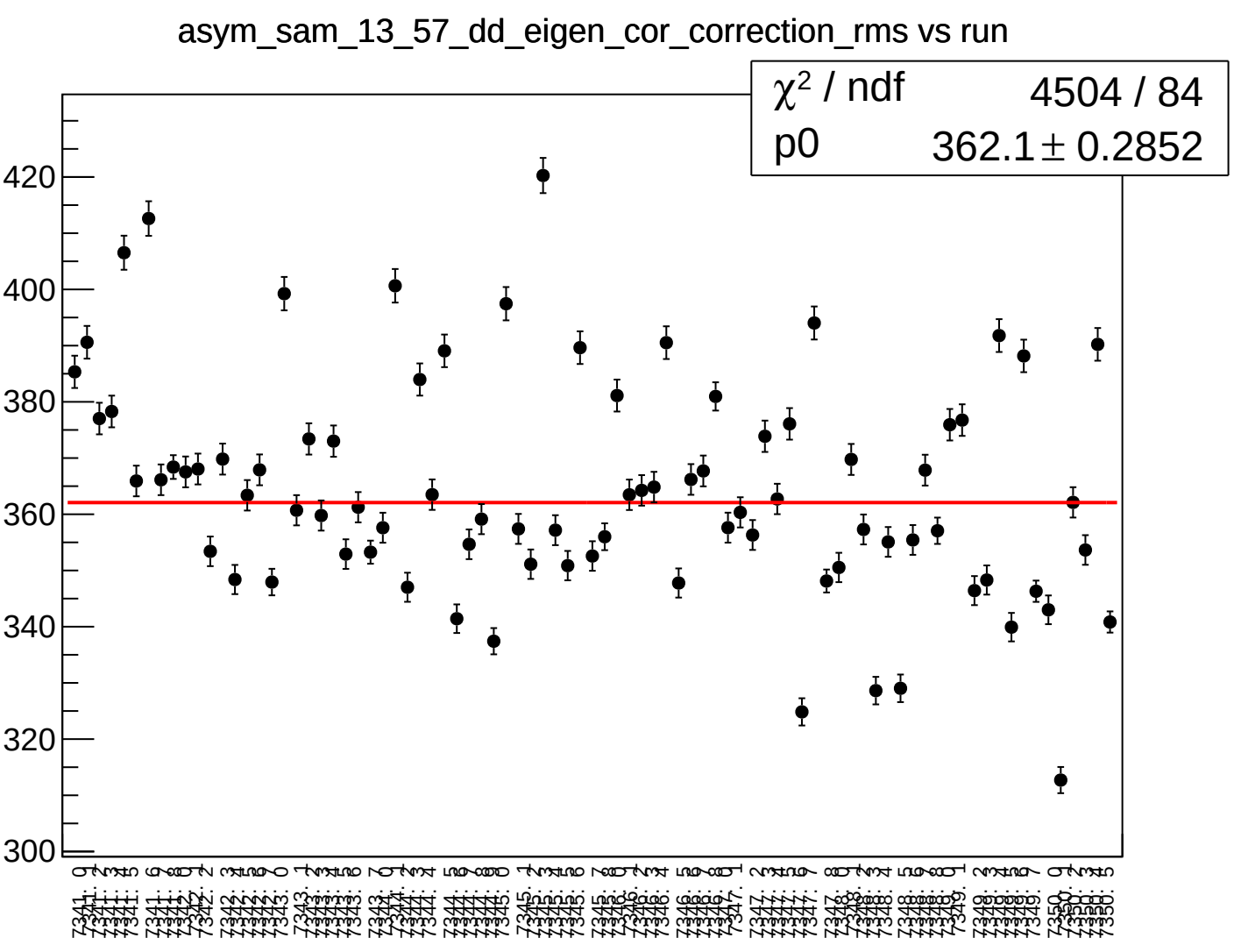

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 86.06 / 84
p0 −66.25 ± 72.45
pull
Entries 85
Mean −318.1
Std Dev 0

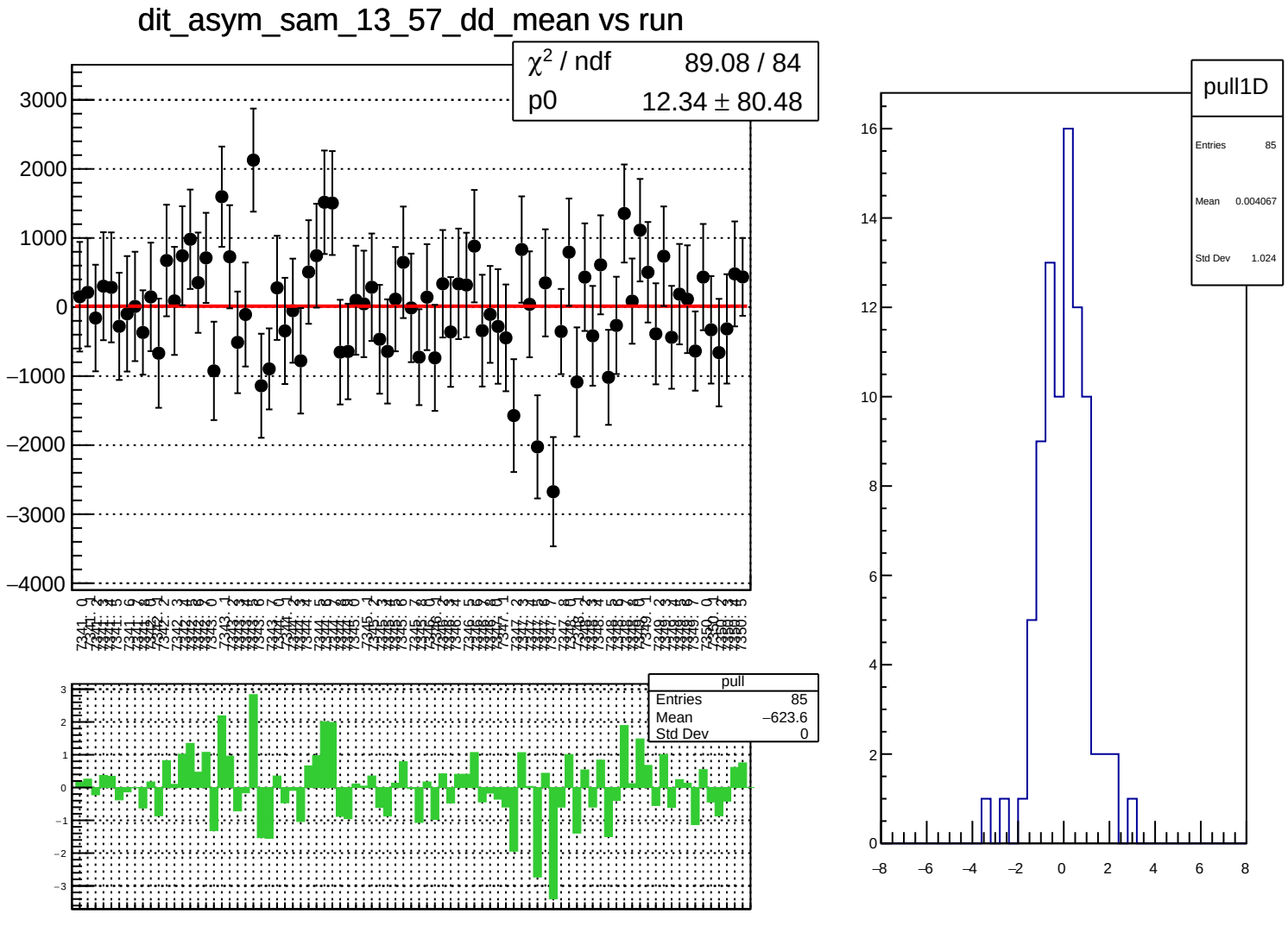

pull1D
Entries 85
Mean 0.006553
Std Dev 1.006

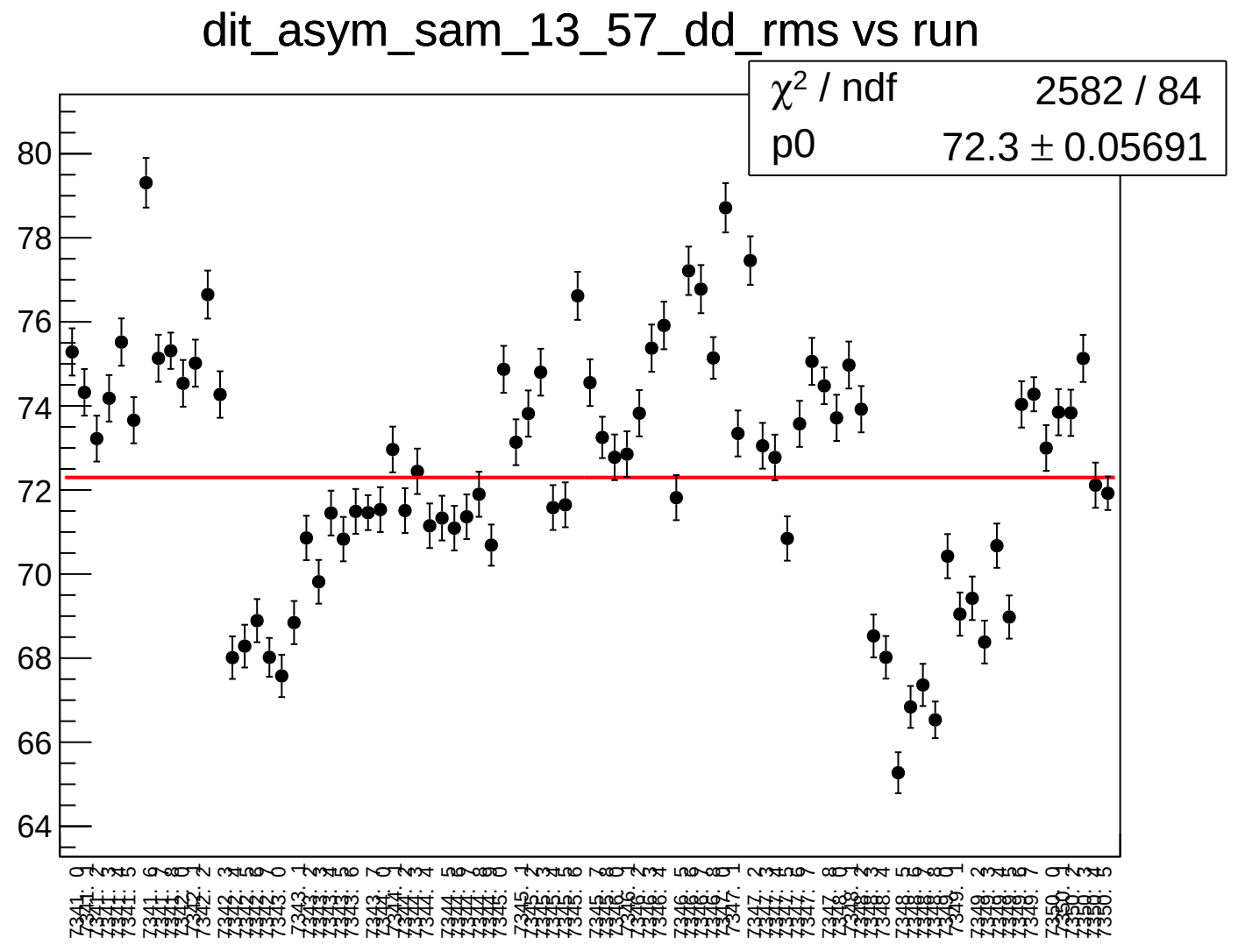

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2130 / 84
p0 65.09 ± 0.05123
72
70
68
66
64
62
60
58

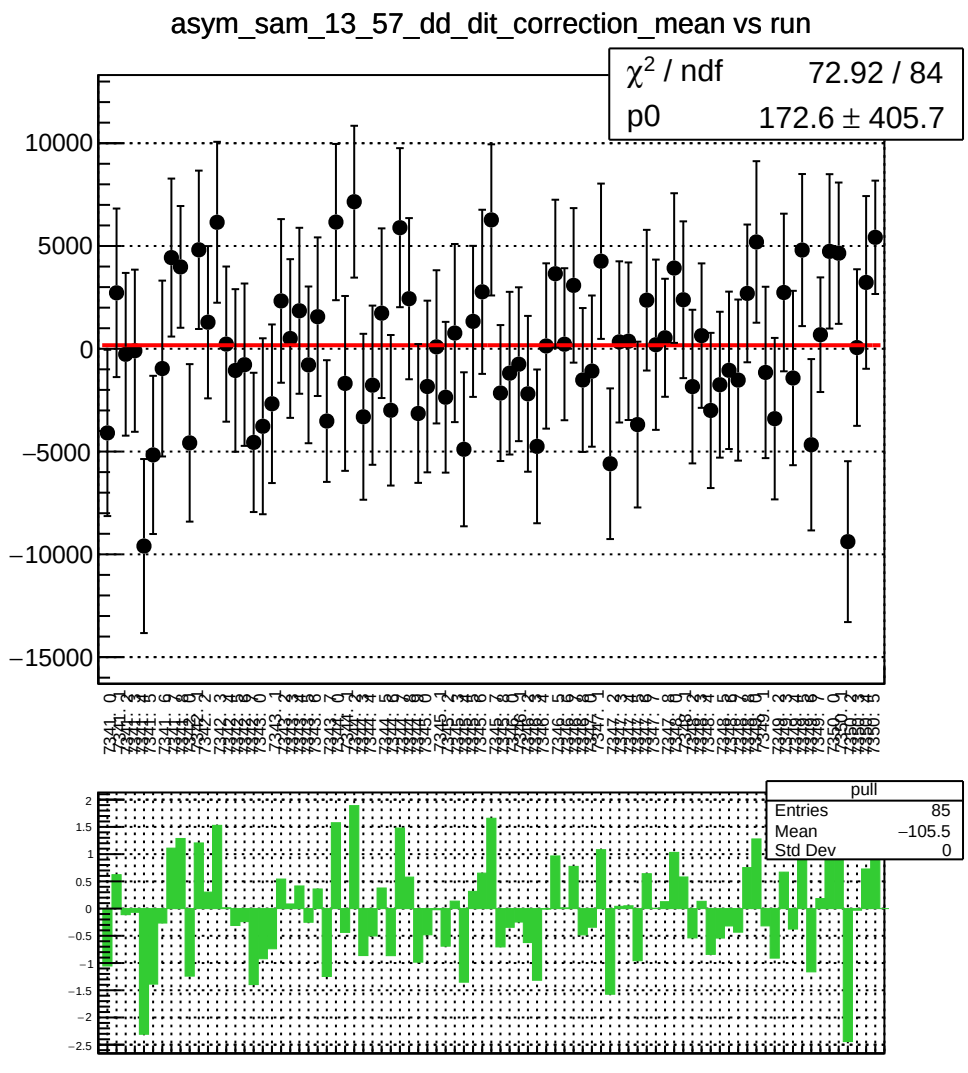

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.25 / 84
p0 111.6 ± 403.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −93.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

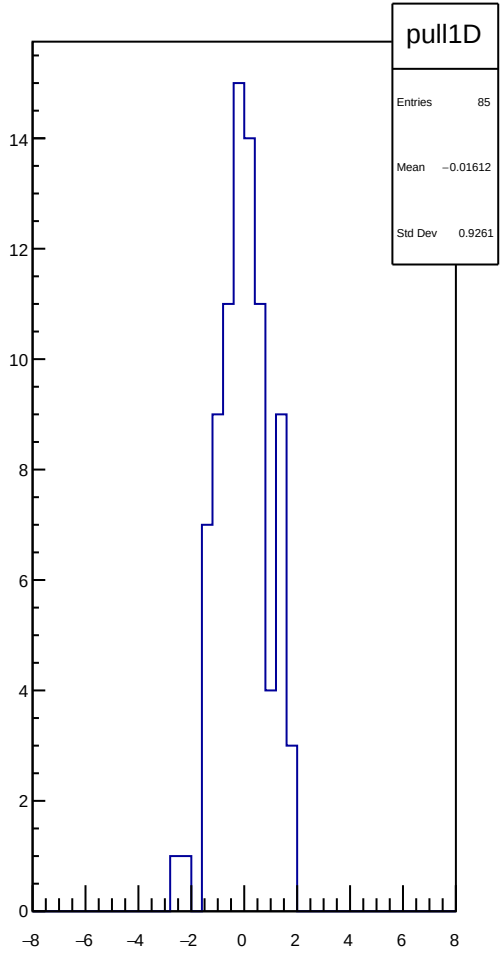

pull1D
Entries 85
Mean −0.01849
Std Dev 0.9344
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

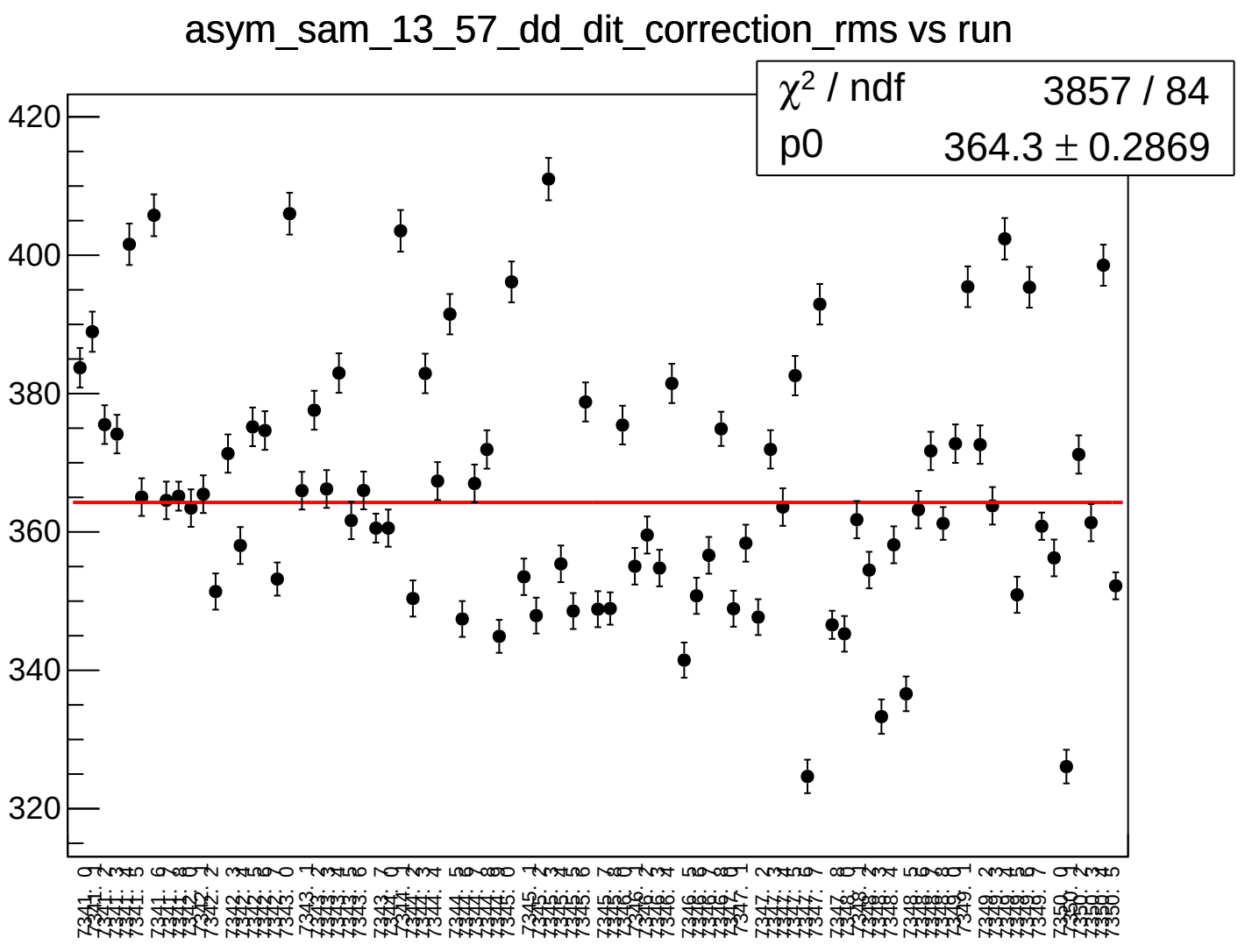

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 4504 / 84
p0 362.1 ± 0.2852
420
400
380
360
340
320
300

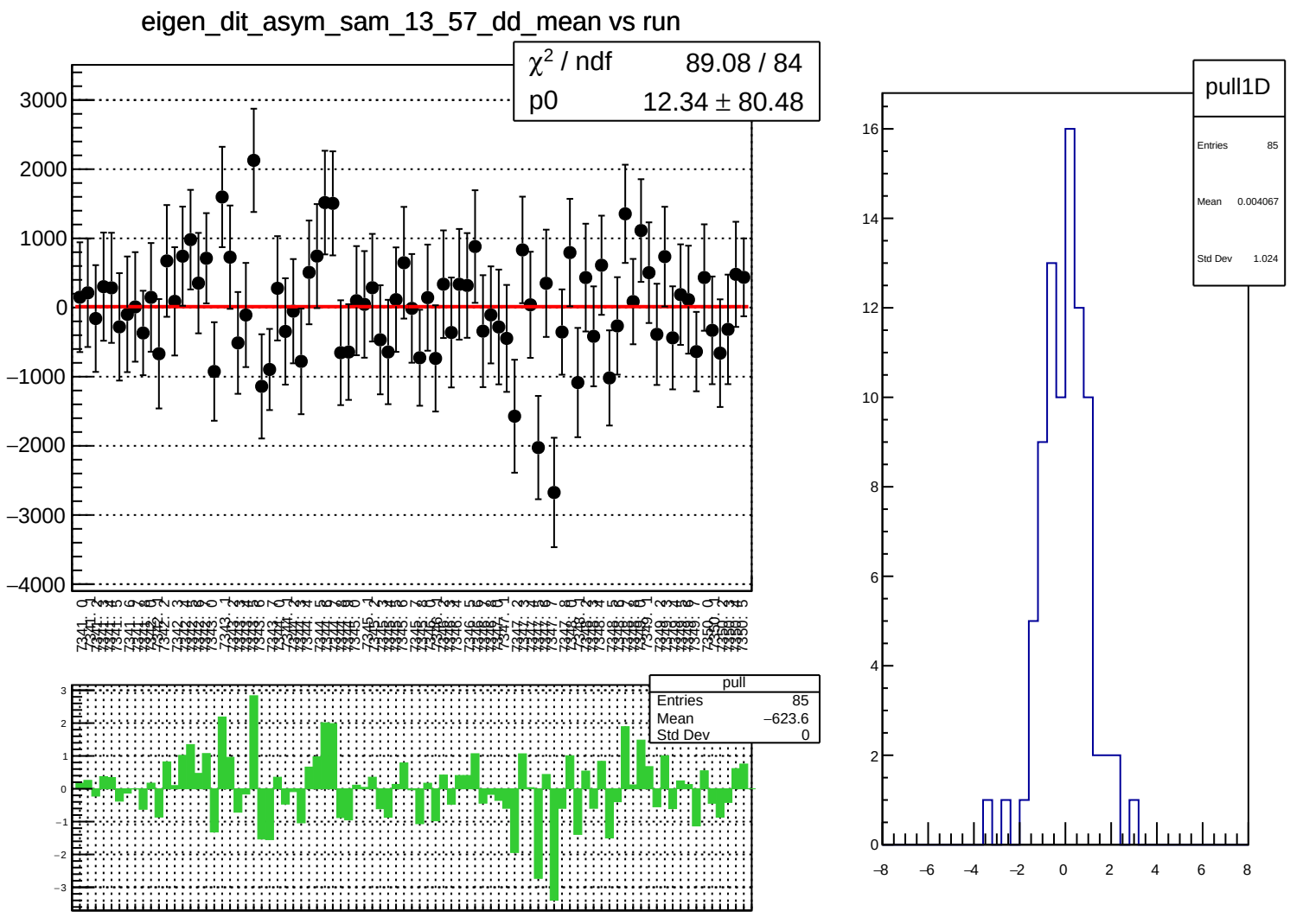

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 89.08 / 84
p0 12.34 ± 80.48
pull
Entries 85
Mean −623.6
Std Dev 0
pull1D
Entries 85
Mean 0.004067
Std Dev 1.024

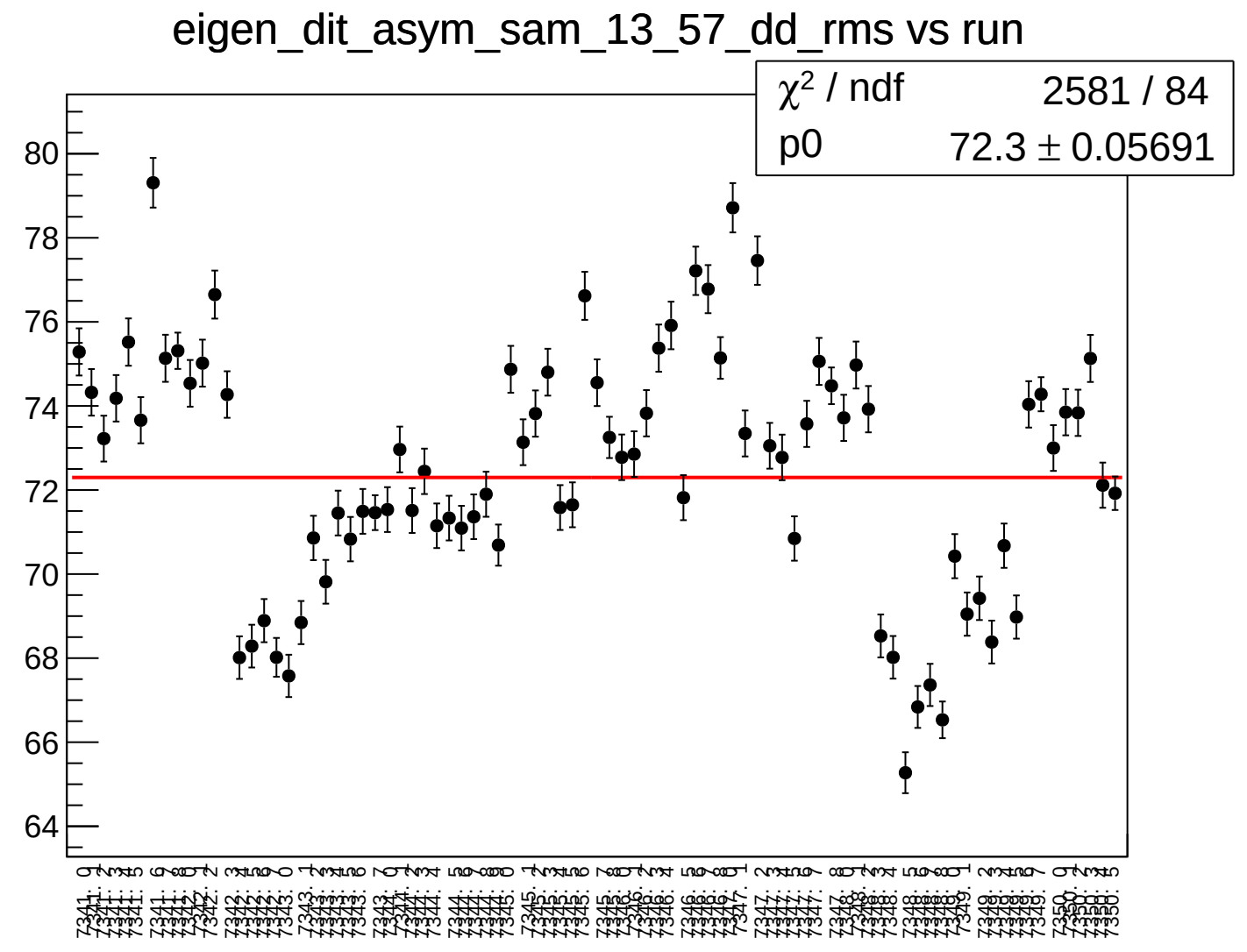

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2582 / 84
p0 72.3 ± 0.05691
80
78
76
74
72
70
68
66
64

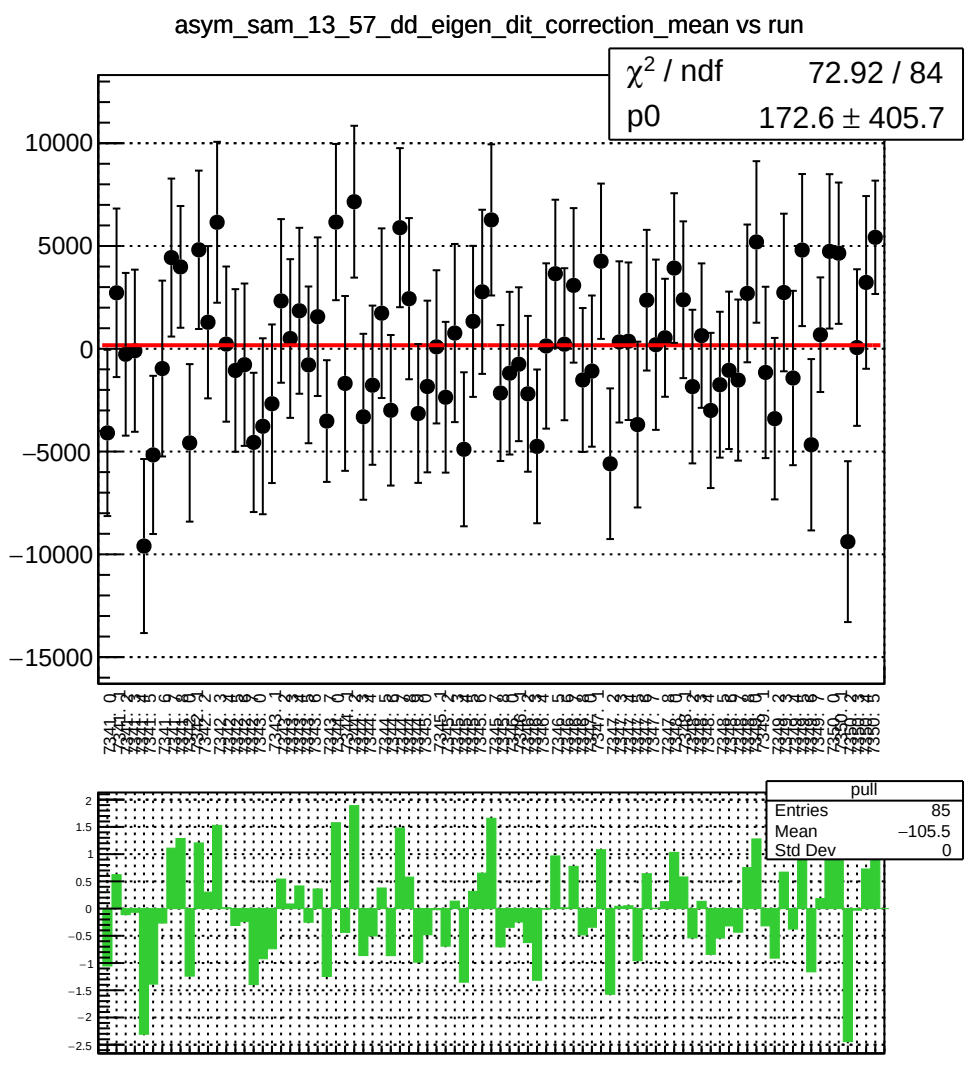

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 72.92 / 84
p0 172.6 ± 405.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −105.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

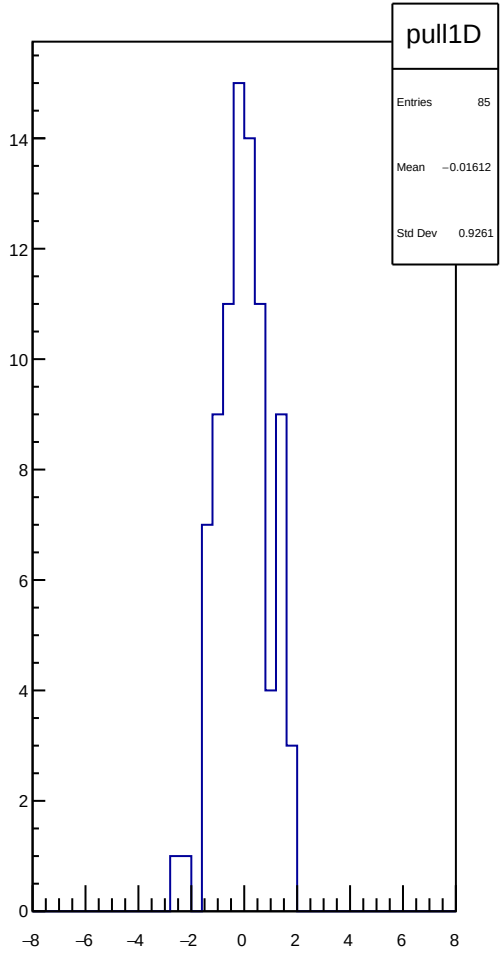

pull1D
Entries 85
Mean −0.01612
Std Dev 0.9261
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

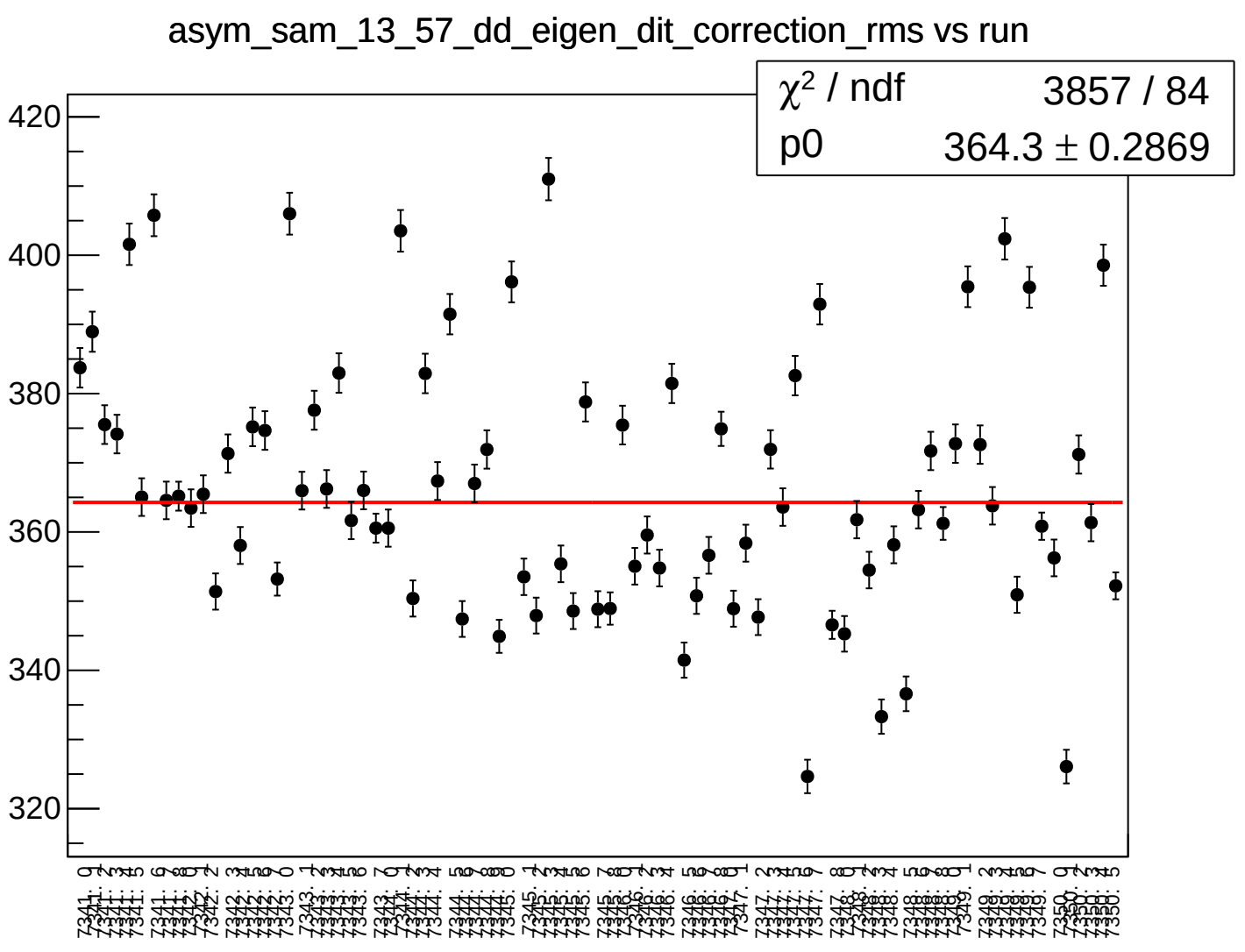

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 3857 / 84
p0 364.3 ± 0.2869
420
400
380
360
340
320

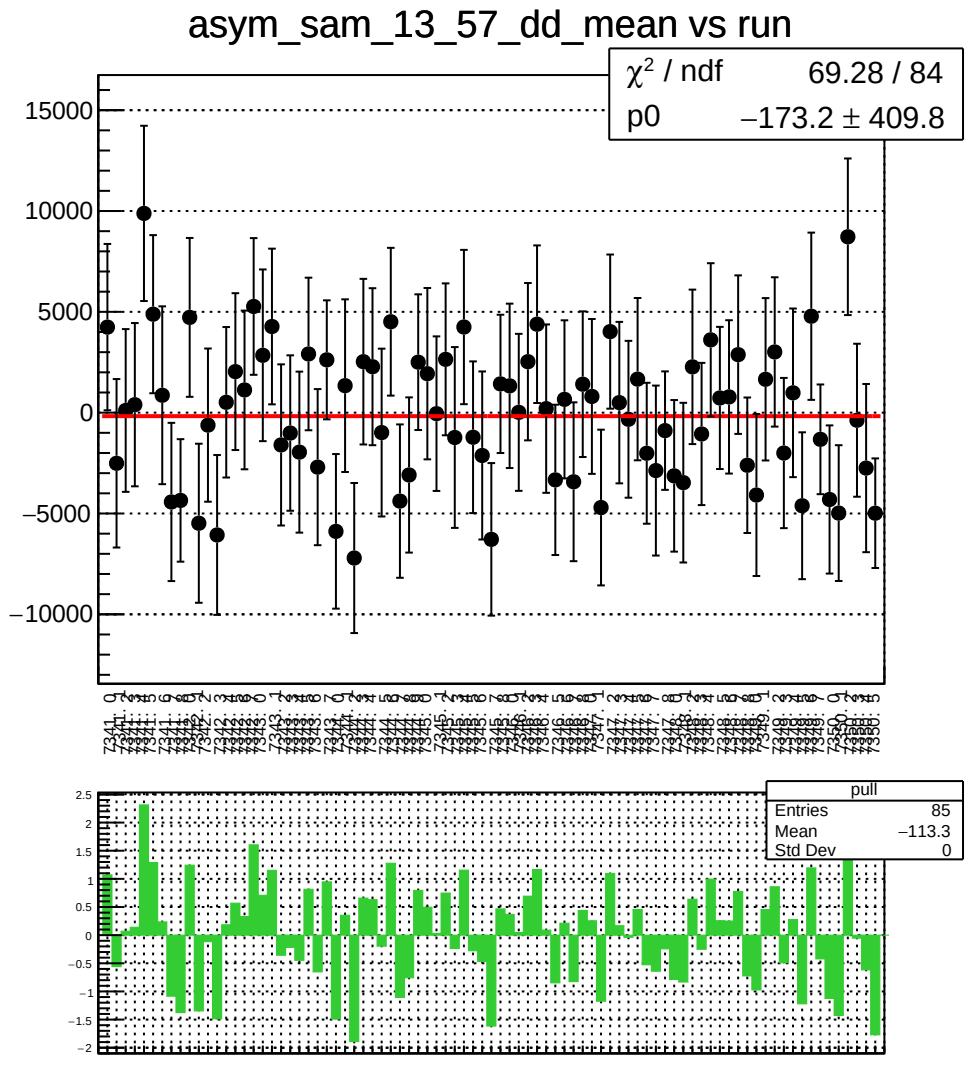

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 89.08 / 84
p0 12.34 ± 80.48
pull
Entries 85
Mean −623.6
Std Dev 0
pull1D
Entries 85
Mean 0.004067
Std Dev 1.024

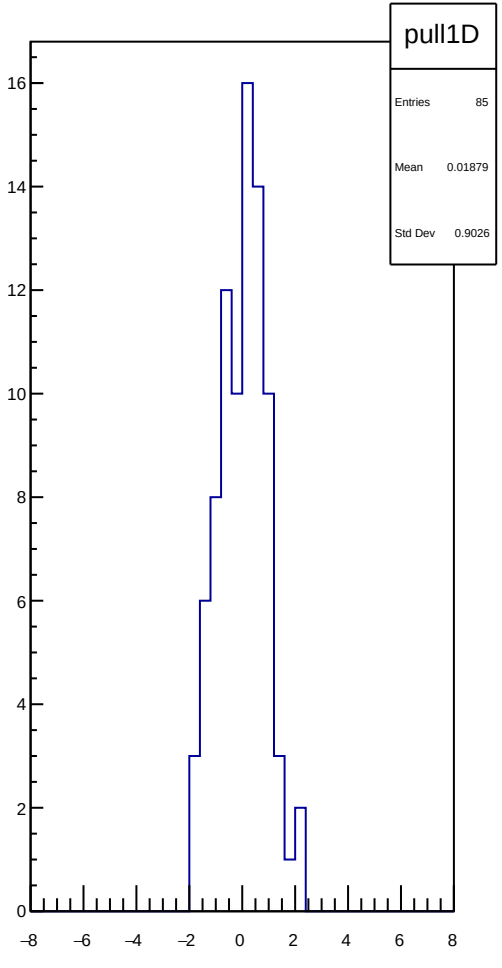

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2581 / 84
p0 72.3 ± 0.05691
80
78
76
74
72
70
68
66
64

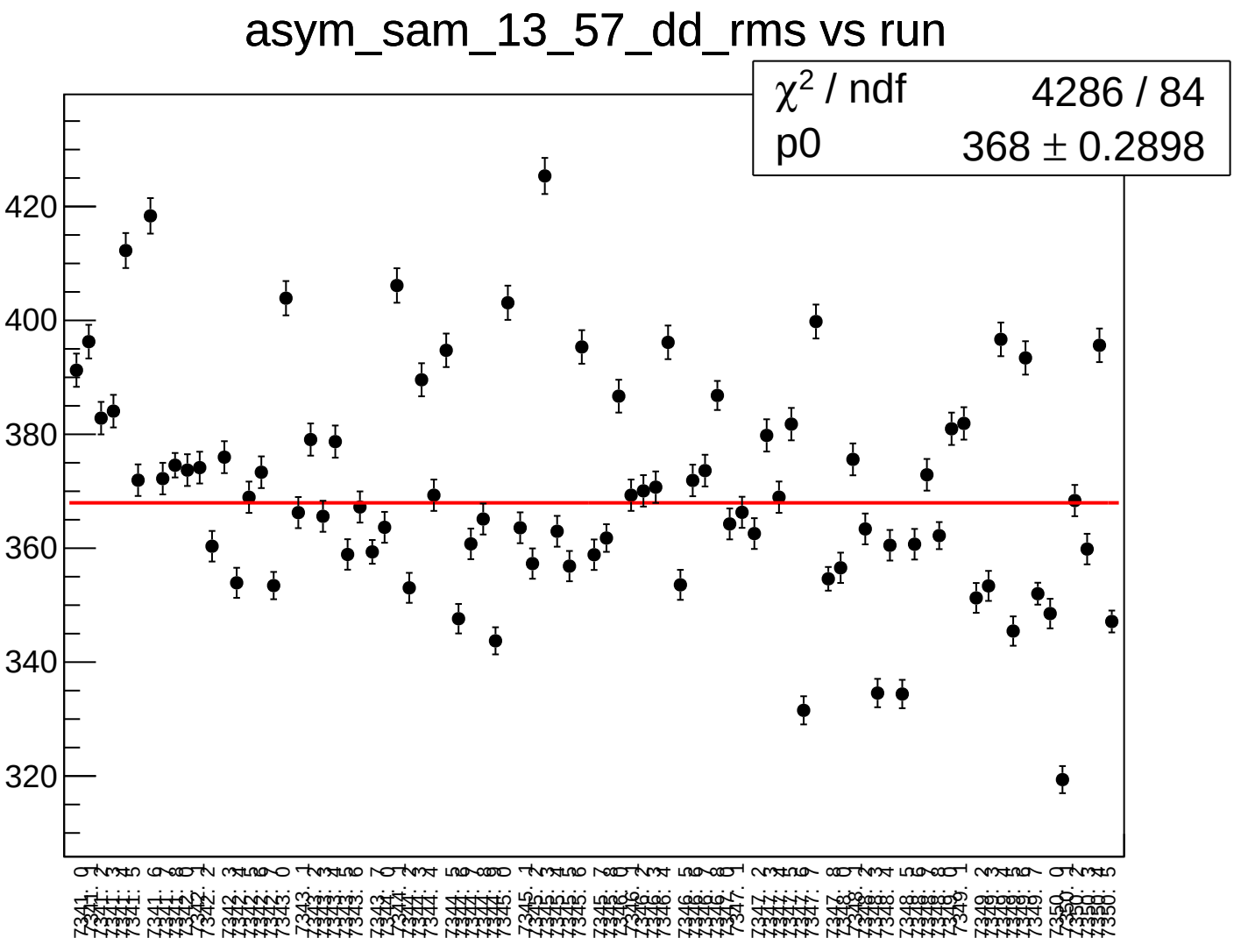

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.92 / 84
p0 172.6 ± 405.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −105.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

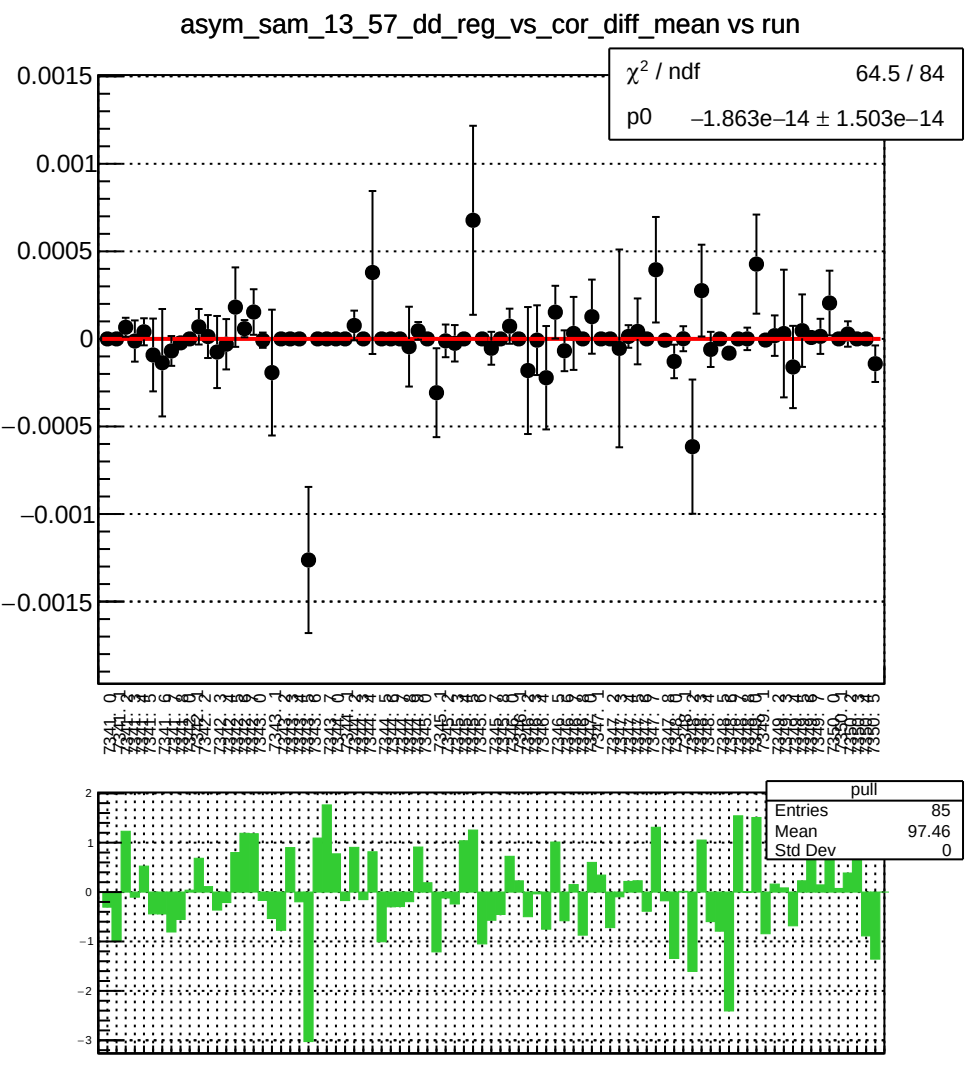

pull1D
Entries 85
Mean −0.01612
Std Dev 0.9261
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

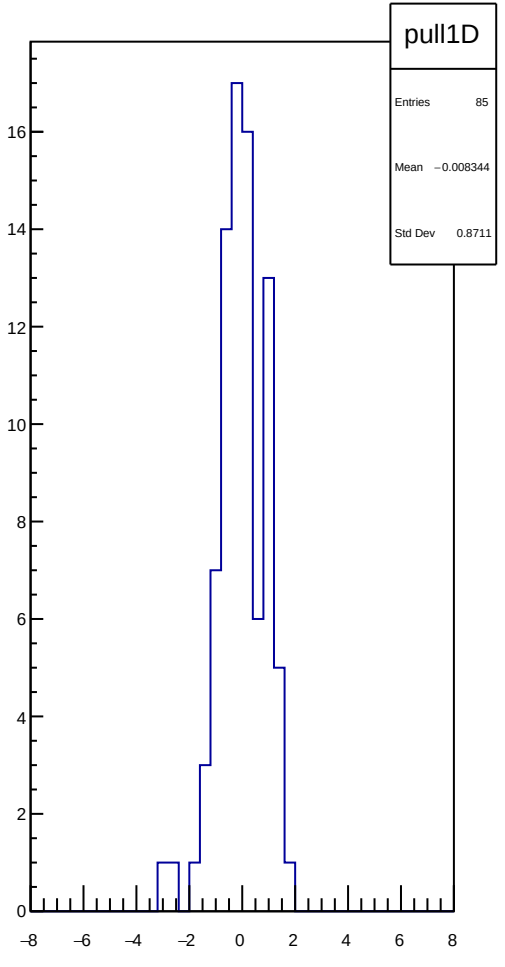

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 3857 / 84
p0 364.3 ± 0.2869
420
400
380
360
340
320

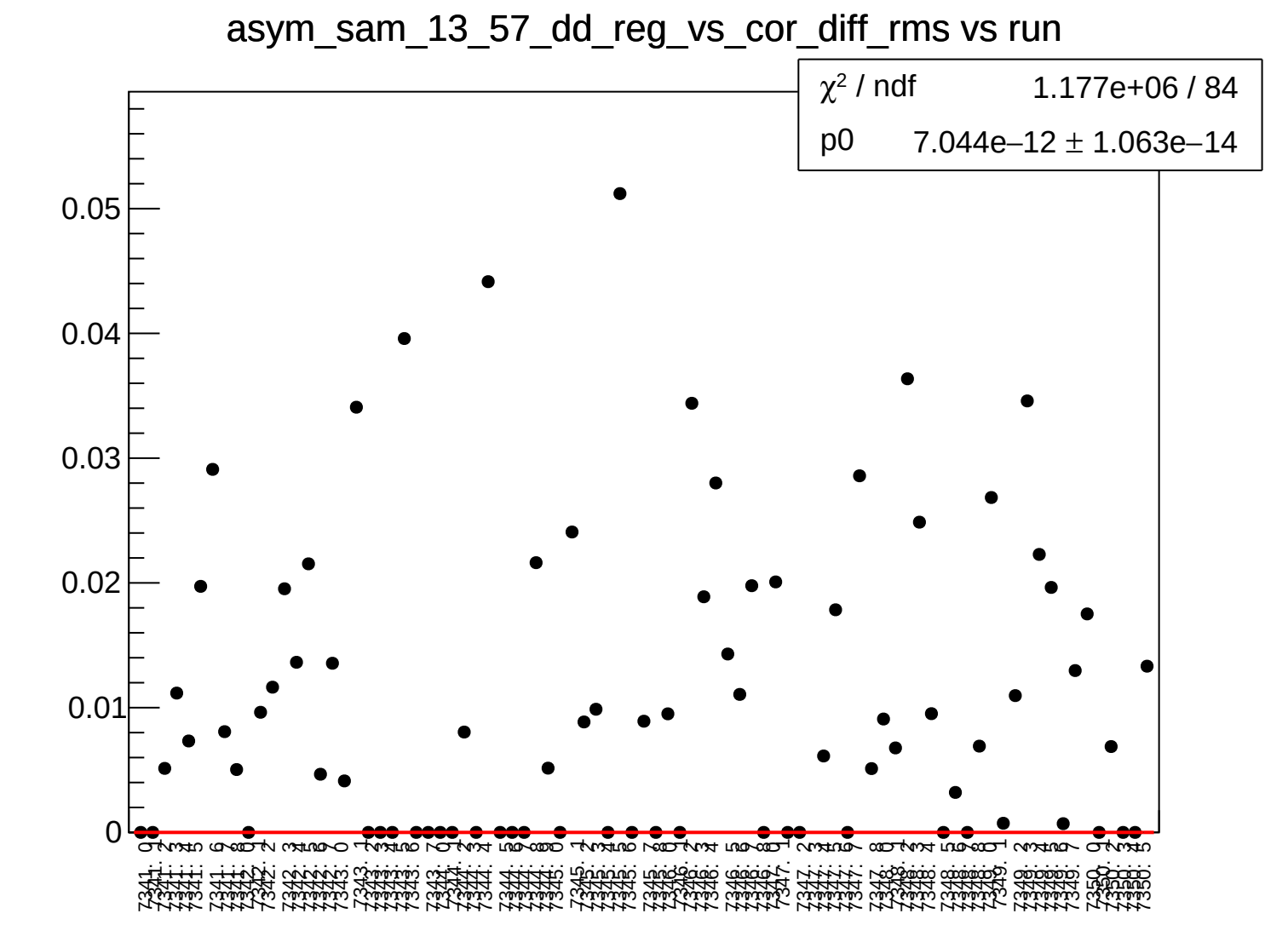

asym_sam_13_57_dd_mean vs run
χ² / ndf 69.28 / 84
p0 −173.2 ± 409.8
pull
Entries 85
Mean −113.3
Std Dev 0

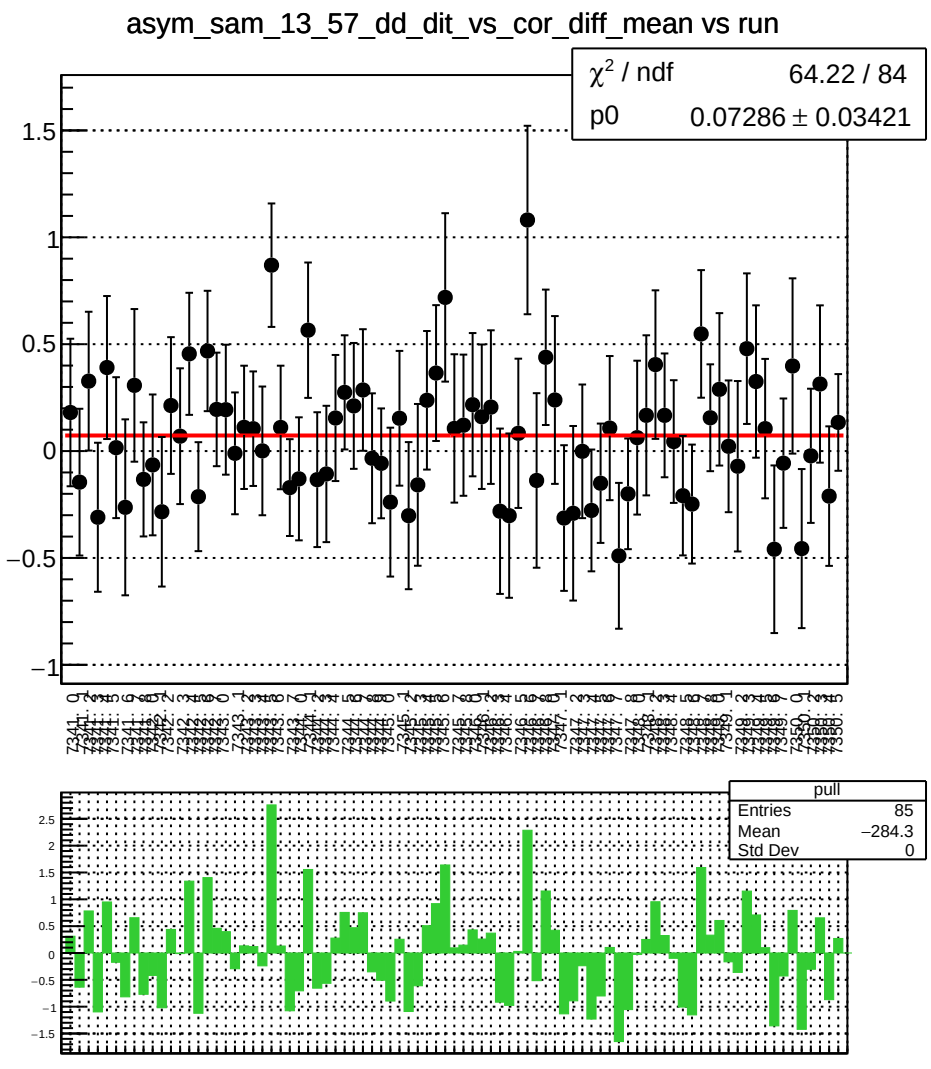

pull1D
Entries 85
Mean 0.01879
Std Dev 0.9026

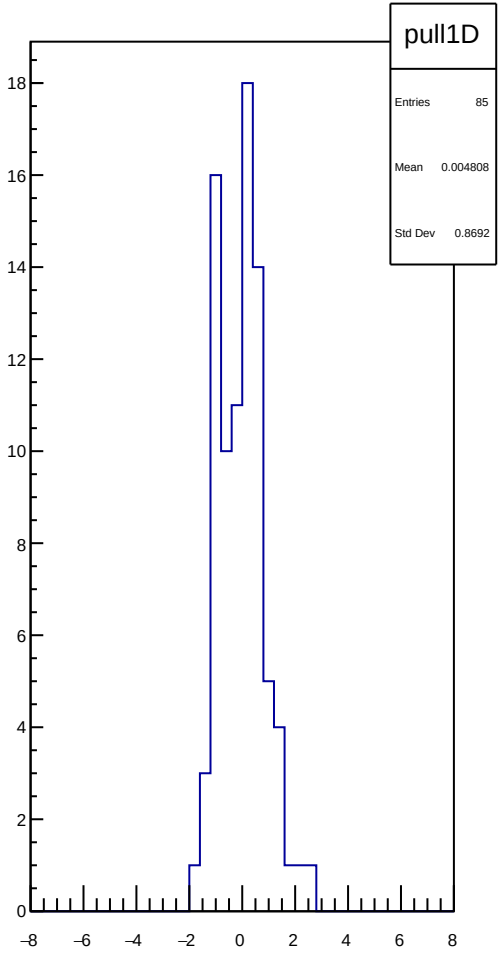

asym_sam_13_57_dd_rms vs run
χ² / ndf 4286 / 84
p0 368 ± 0.2898
420
400
380
360
340
320

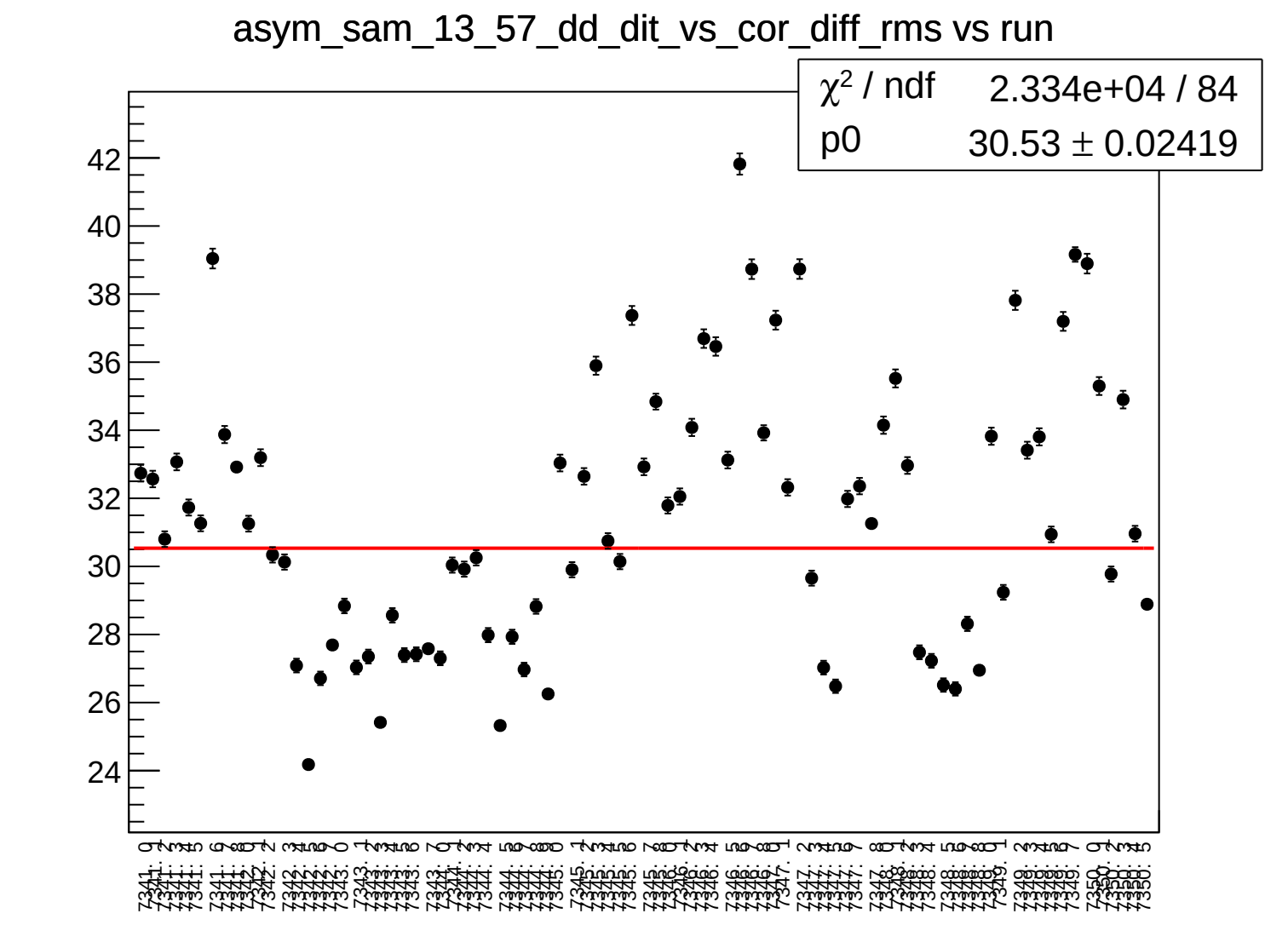

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.5 / 84
p0 −1.863e−14 ± 1.503e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 97.46
Std Dev 0
2
1
0
−1
−2
−3

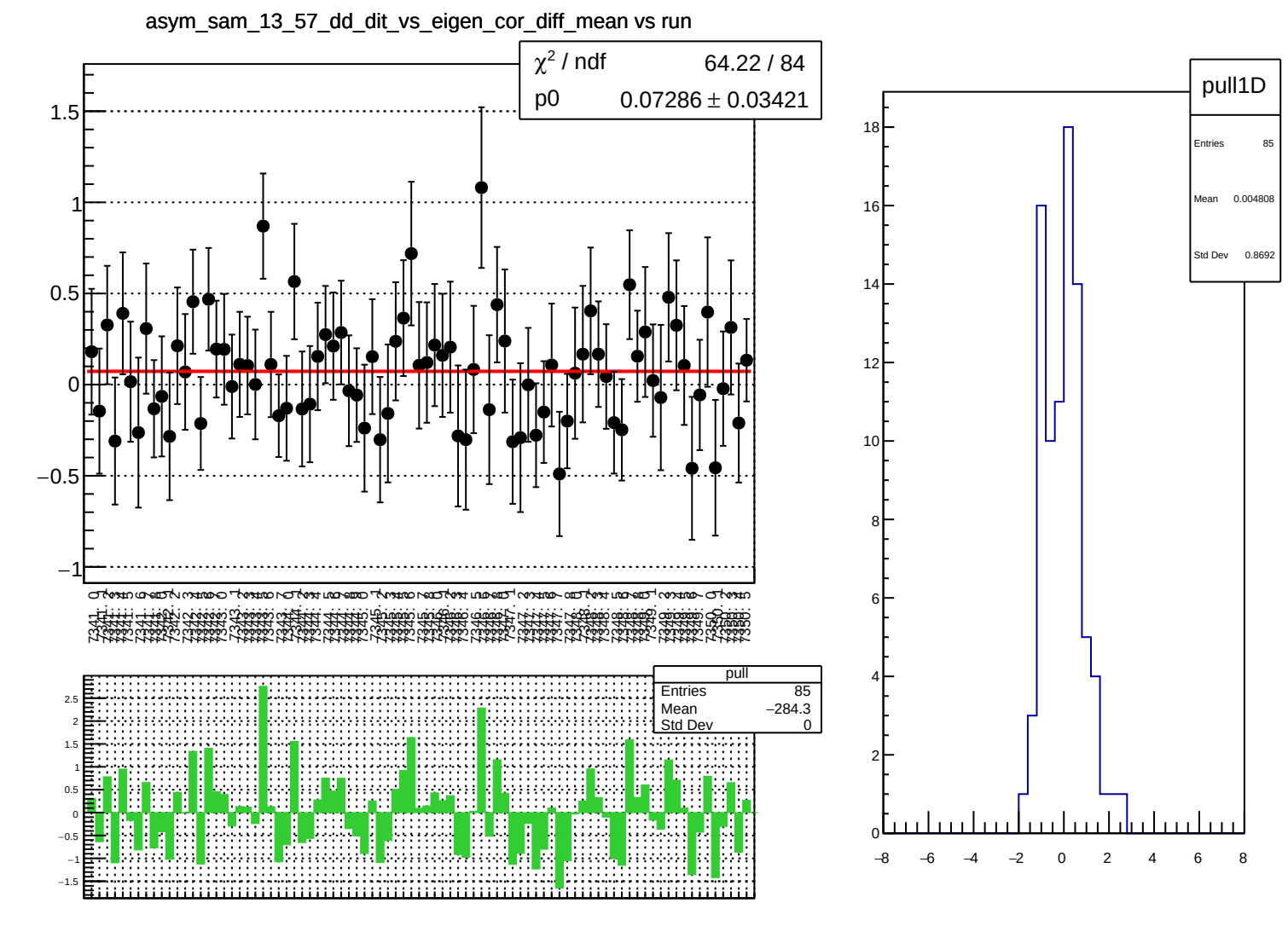

pull1D
Entries 85
Mean −0.008344
Std Dev 0.8711
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

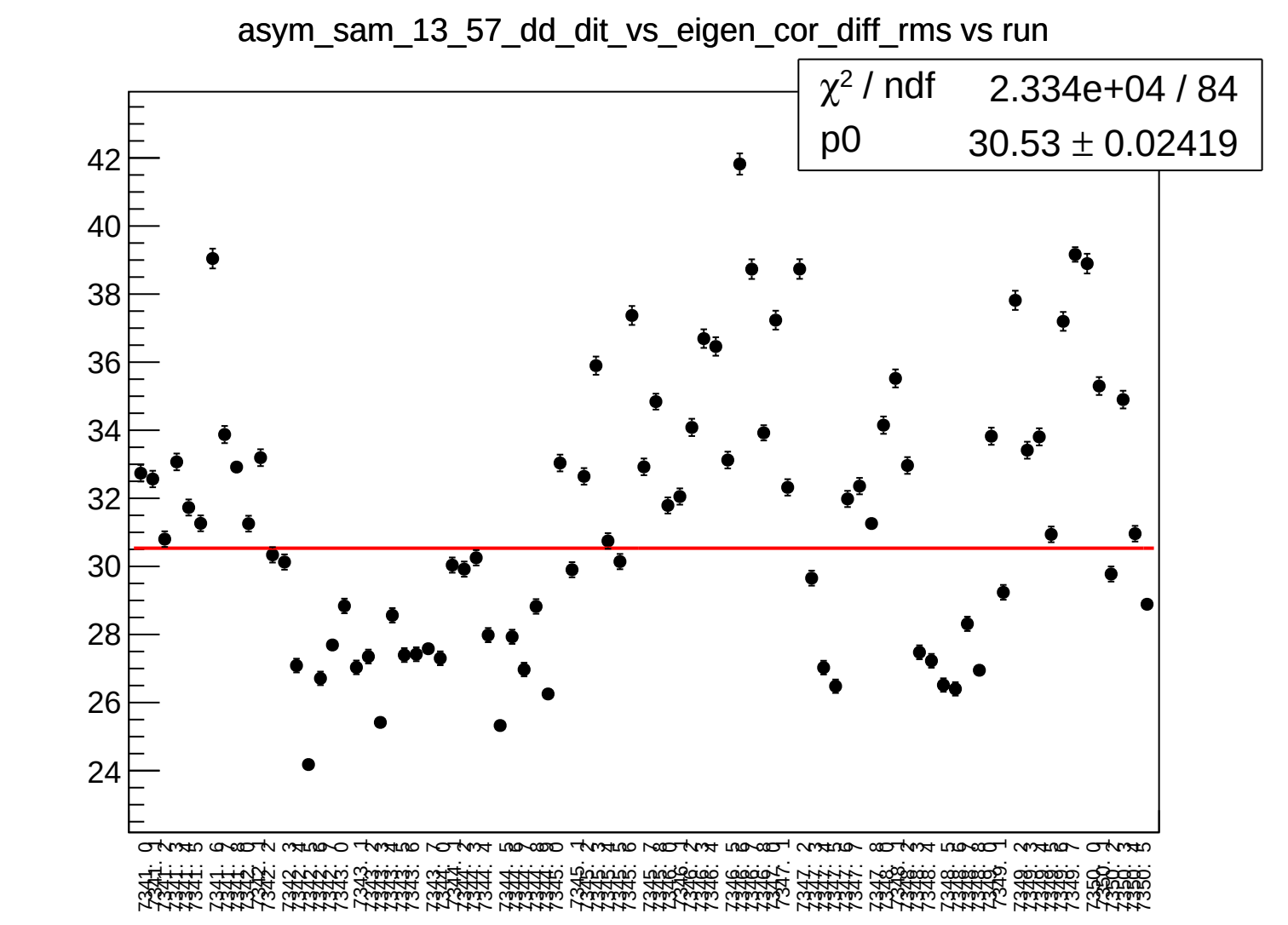

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.177e+06 / 84
p0 7.044e−12 ± 1.063e−14
0.05
0.04
0.03
0.02
0.01
0

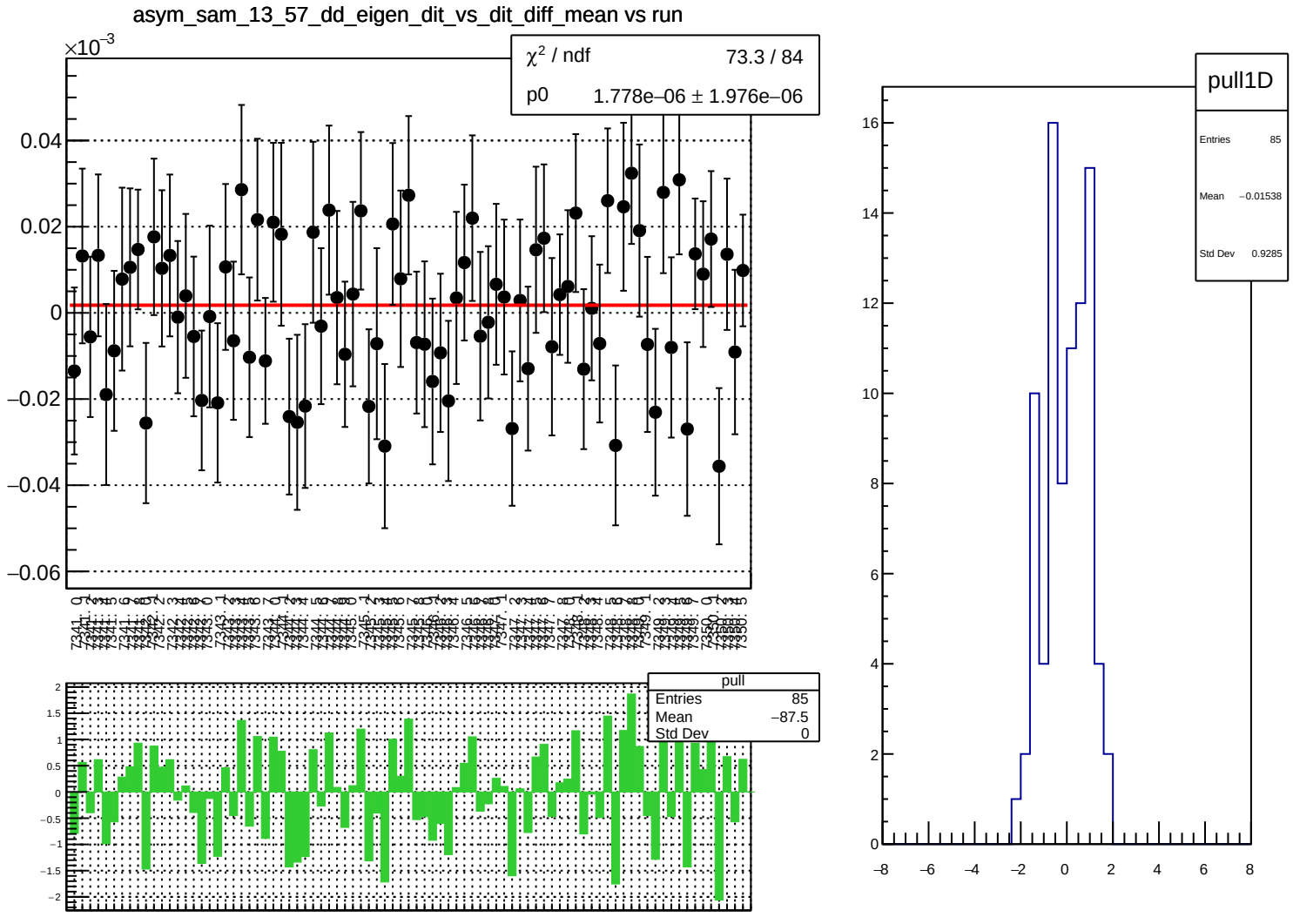

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.22 / 84
p0 0.07286 ± 0.03421
pull
Entries 85
Mean −284.3
Std Dev 0

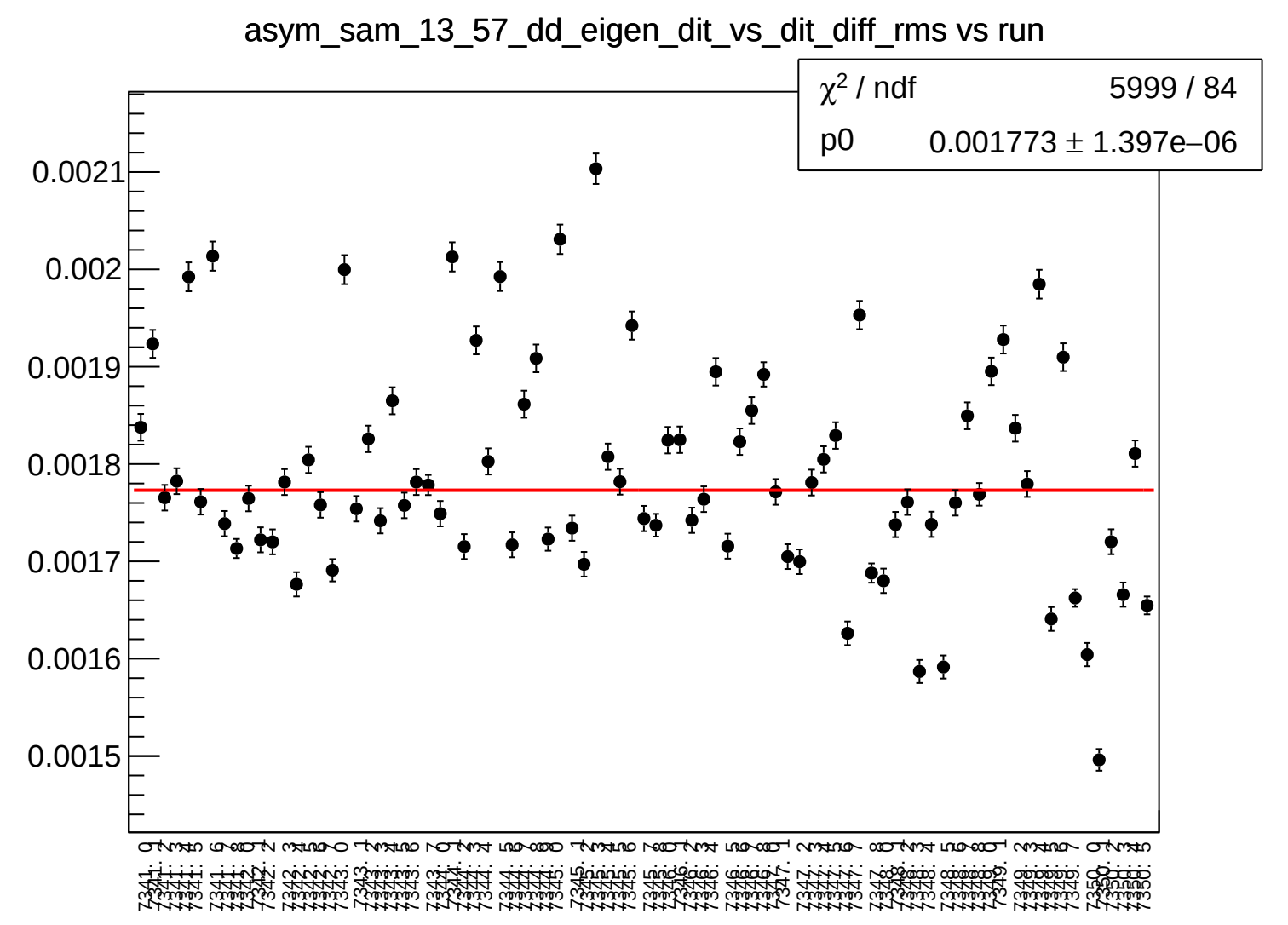

pull1D
Entries 85
Mean 0.004808
Std Dev 0.8692

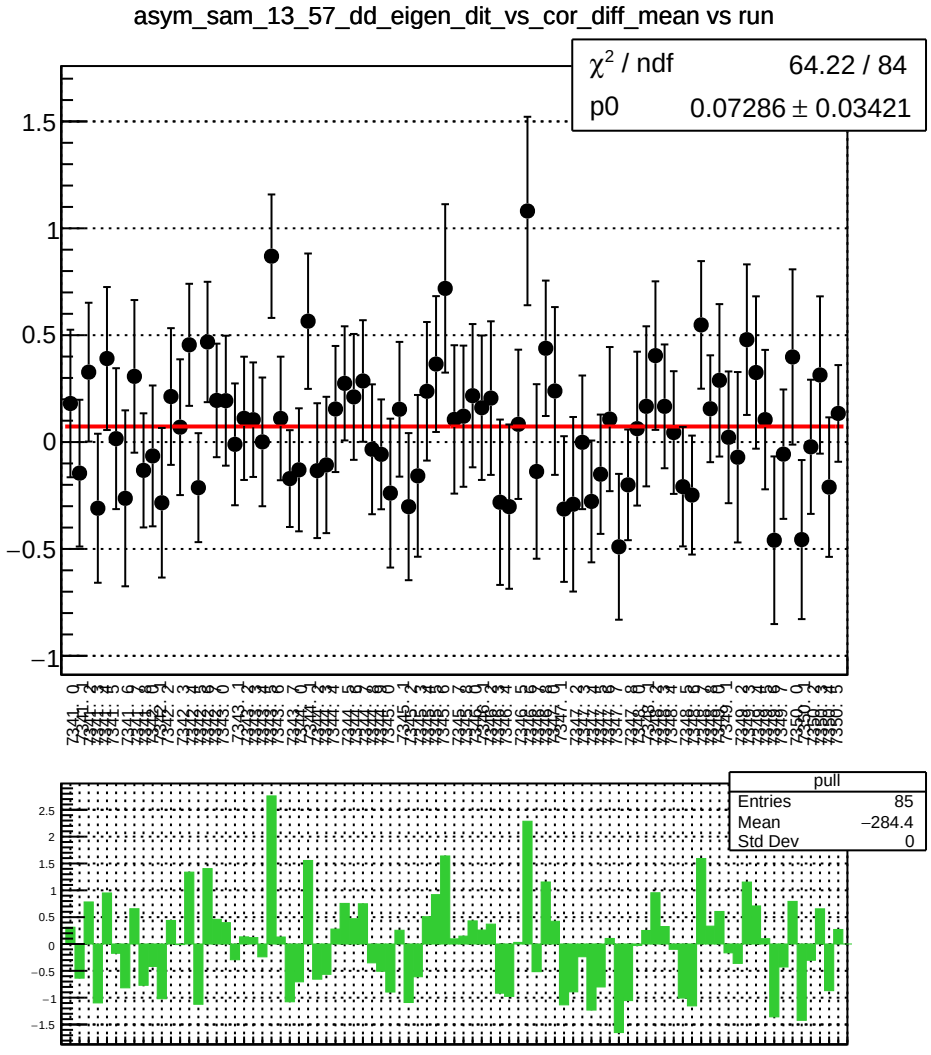

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.334e+04 / 84
p0 30.53 ± 0.02419
42
40
38
36
34
32
30
28
26
24

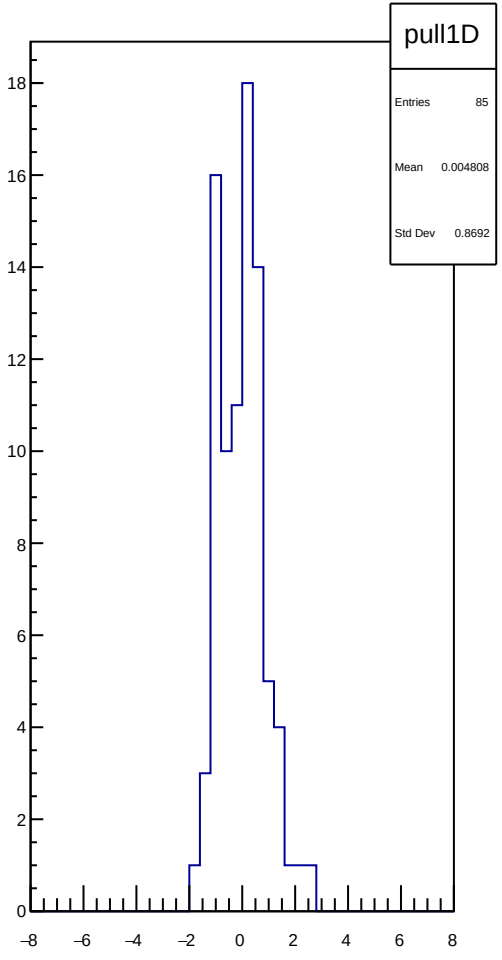

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.22 / 84
p0 0.07286 ± 0.03421
pull
Entries 85
Mean −284.3
Std Dev 0
pull1D
Entries 85
Mean 0.004808
Std Dev 0.8692

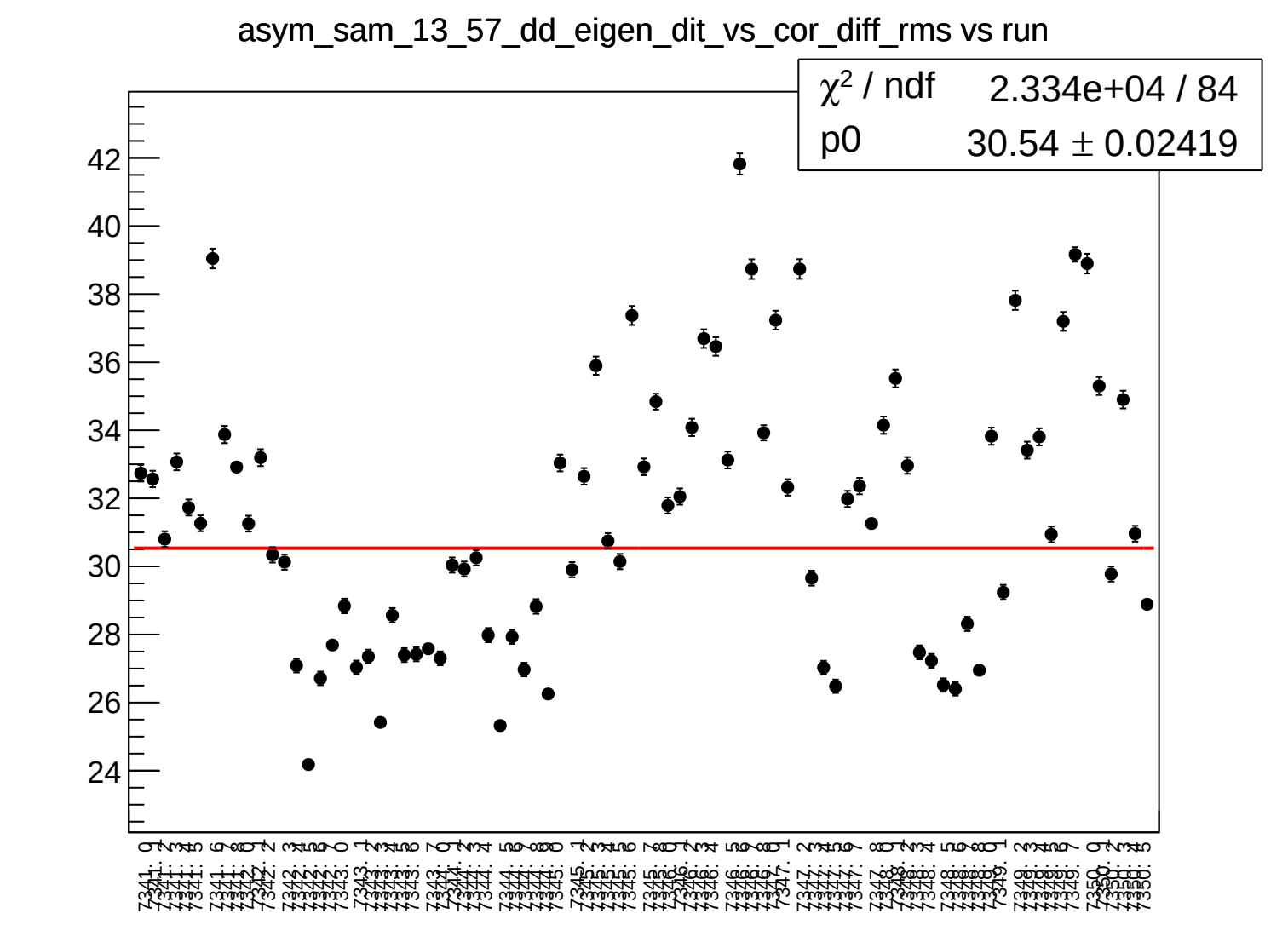

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.334e+04 / 84
p0 30.53 ± 0.02419
42
40
38
36
34
32
30
28
26
24

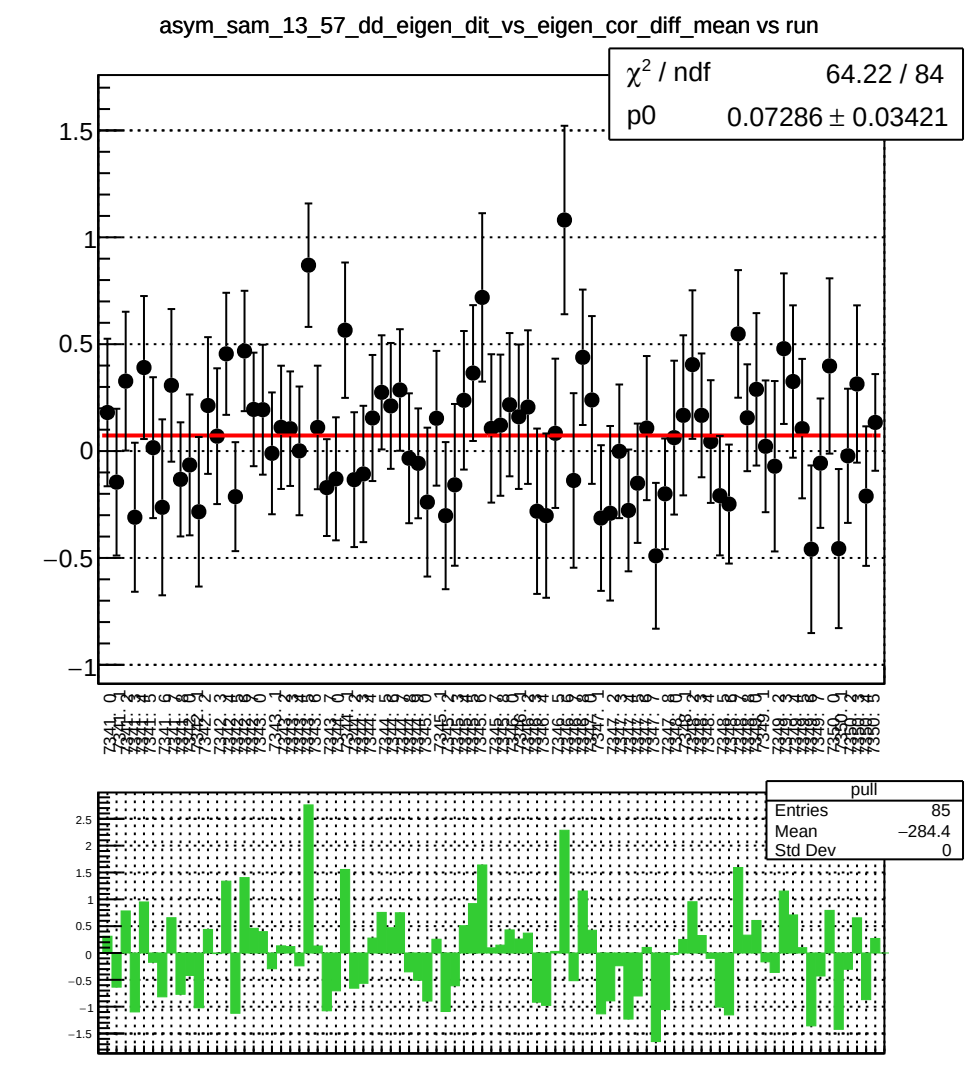

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.3 / 84
p0 1.778e−06 ± 1.976e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean −87.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.01538
Std Dev 0.9285
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

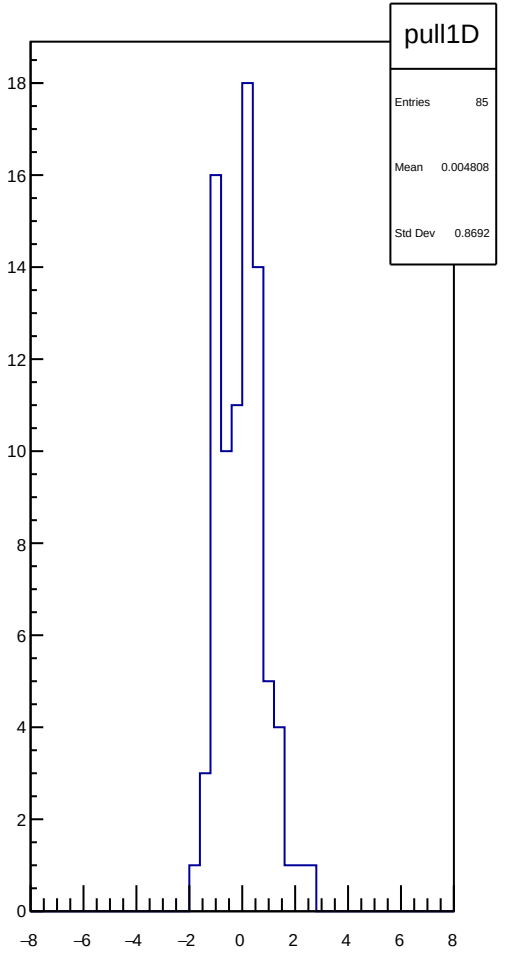

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5999 / 84
p0 0.001773 ± 1.397e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

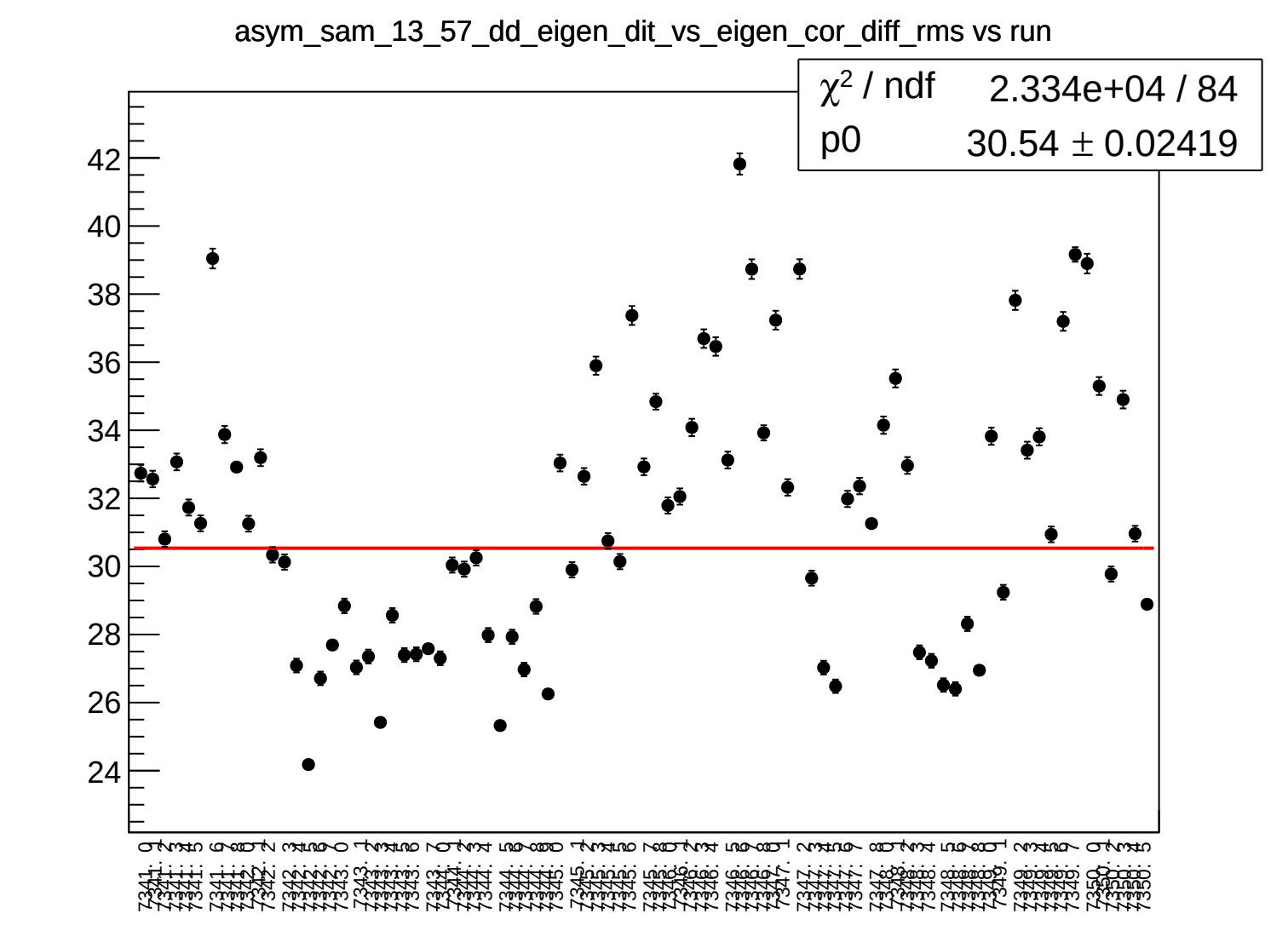

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.22 / 84
p0 0.07286 ± 0.03421
pull
Entries 85
Mean −284.4
Std Dev 0

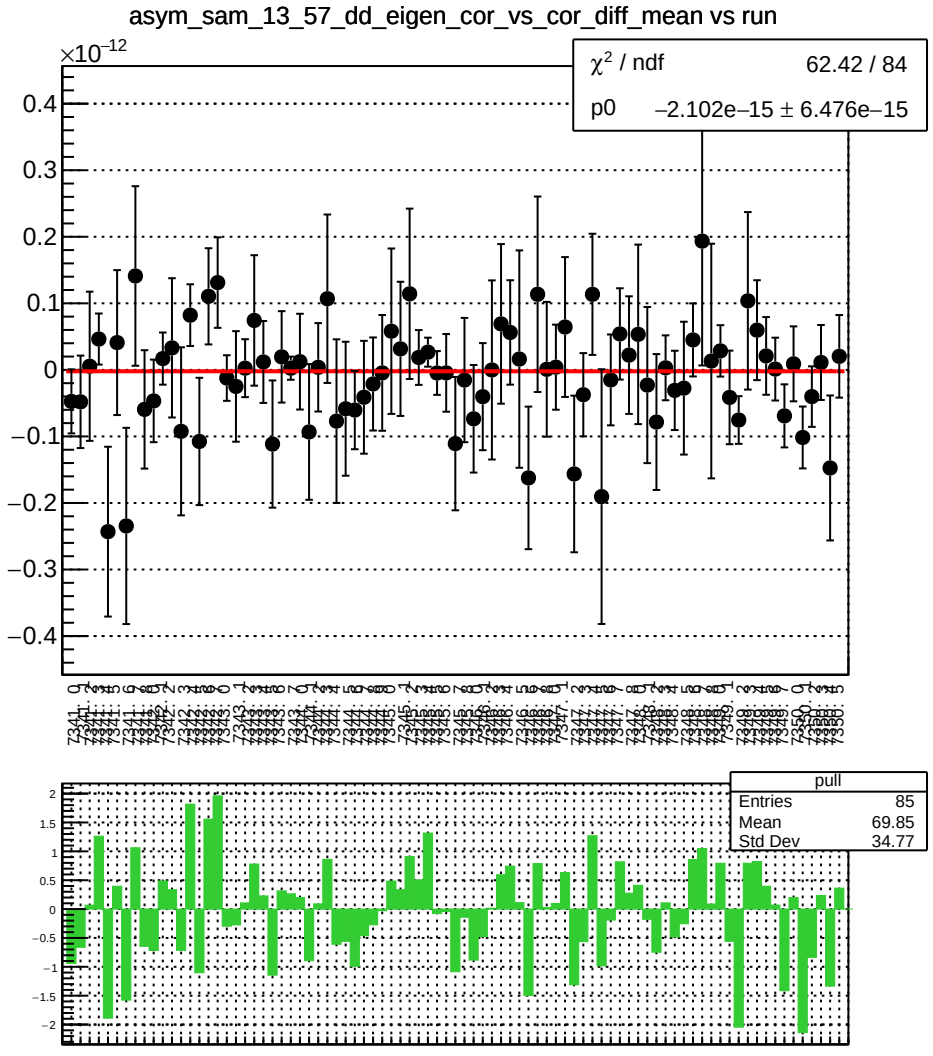

pull1D
Entries 85
Mean 0.004808
Std Dev 0.8692

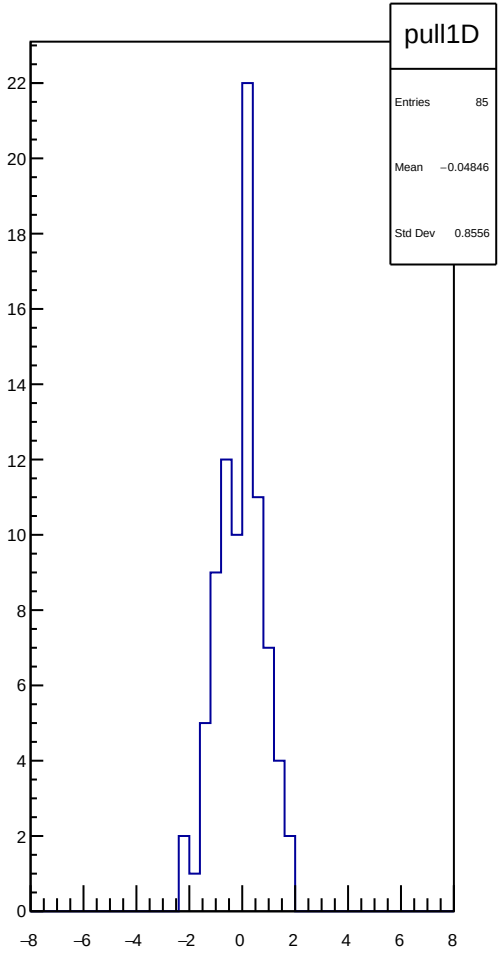

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.334e+04 / 84
p0 30.54 ± 0.02419
42
40
38
36
34
32
30
28
26
24

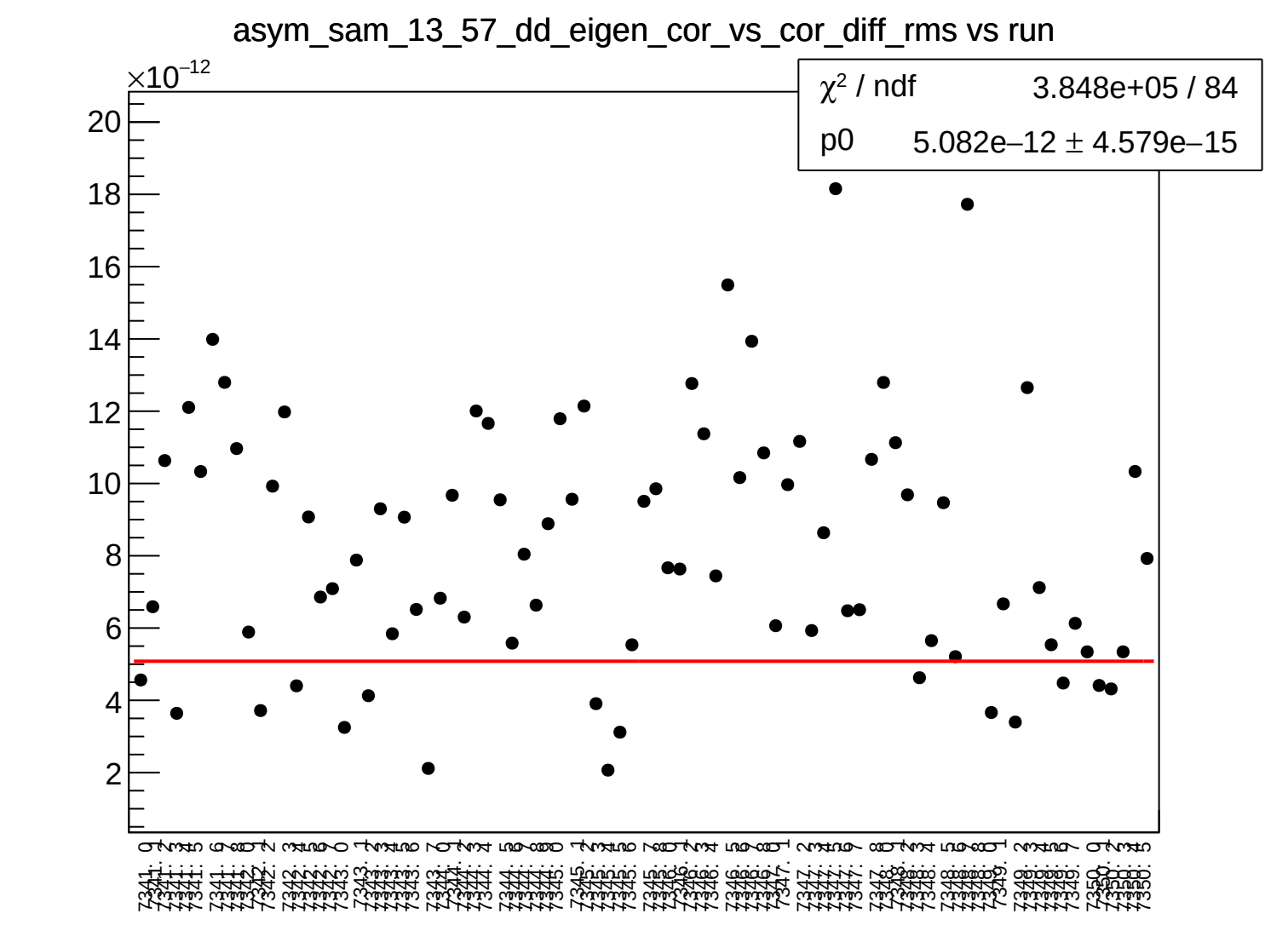

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.22 / 84
p0 0.07286 ± 0.03421
pull
Entries 85
Mean −284.4
Std Dev 0

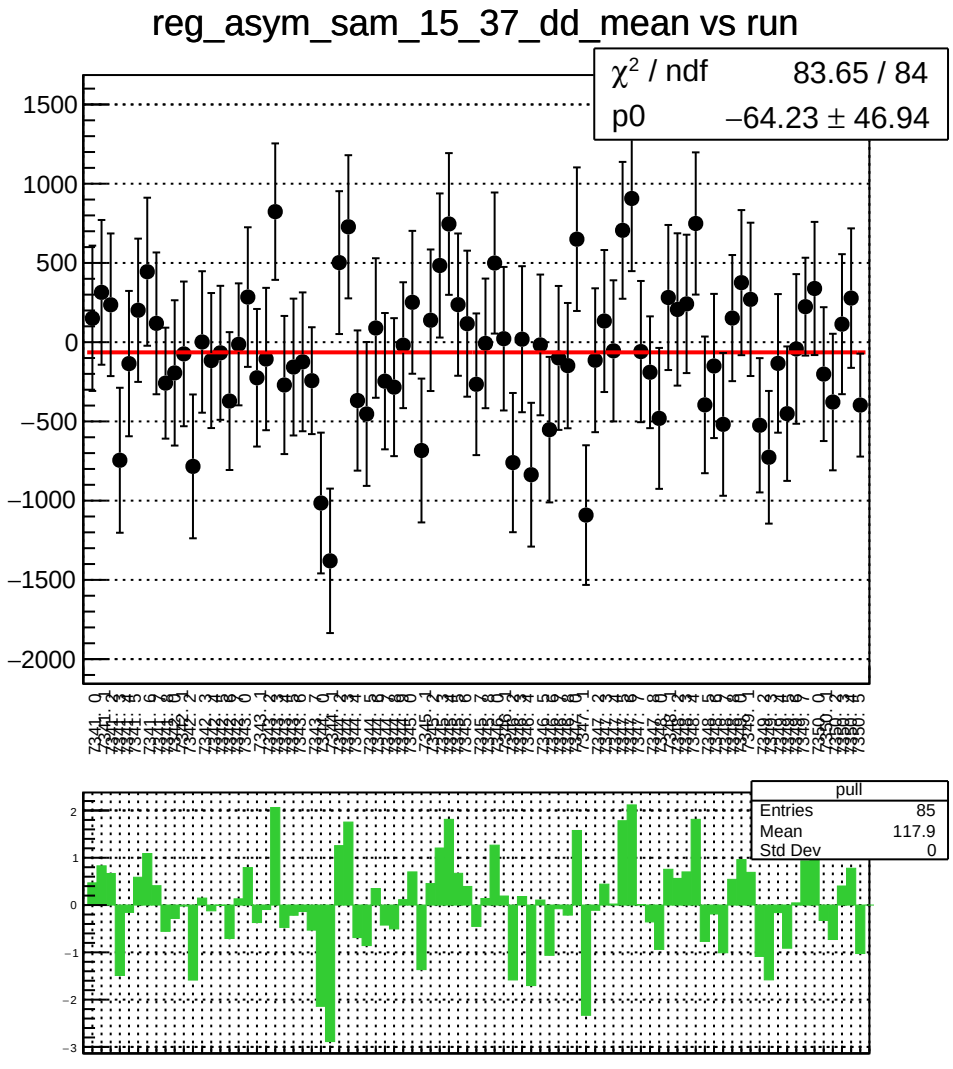

pull1D
Entries 85
Mean 0.004808
Std Dev 0.8692

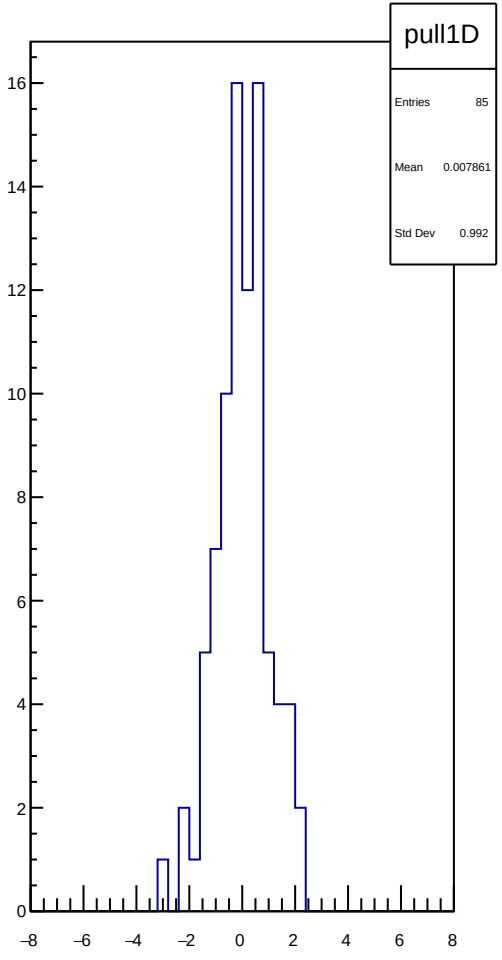

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.334e+04 / 84
p0 30.54 ± 0.02419
42
40
38
36
34
32
30
28
26
24

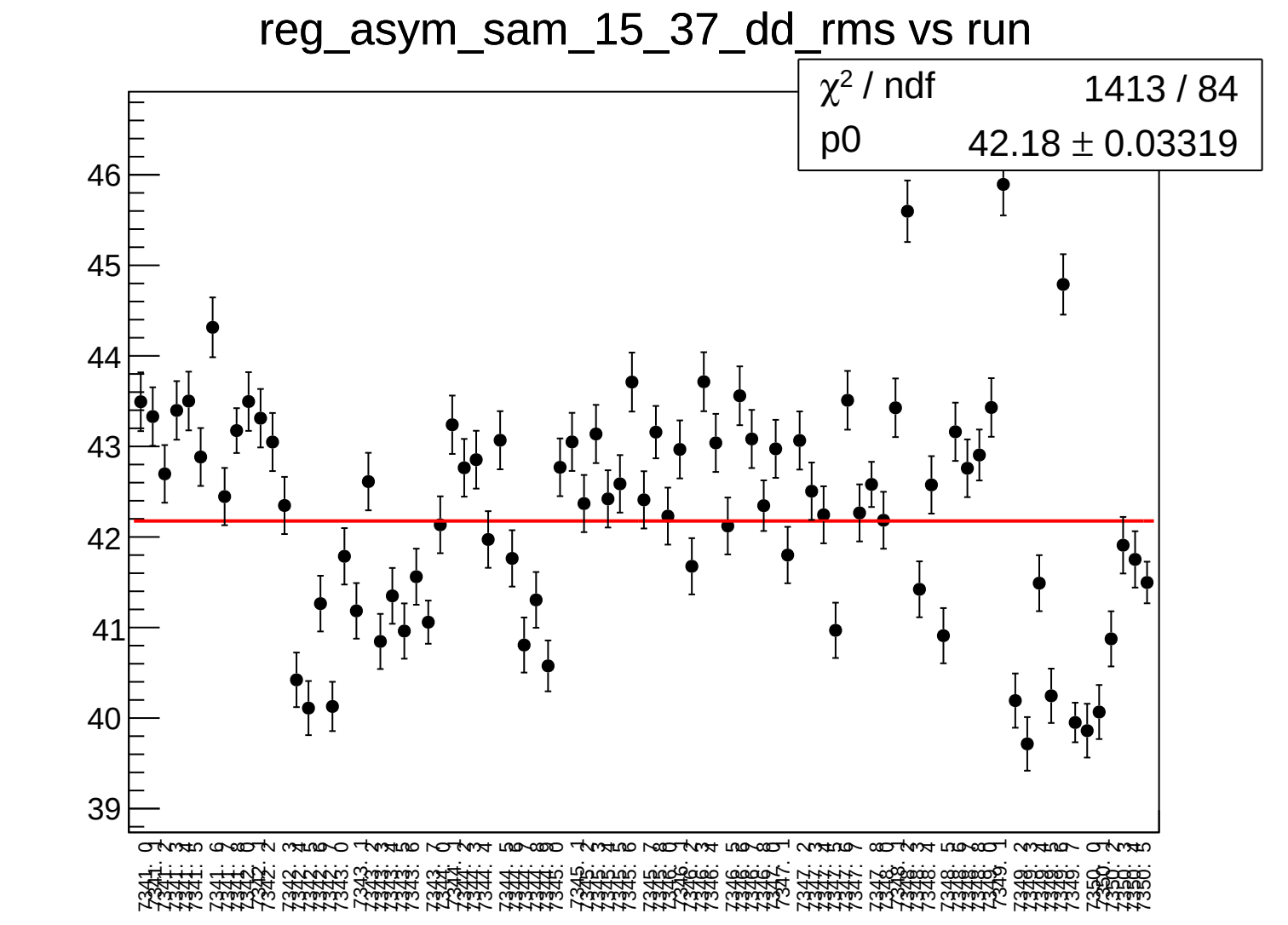

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.42 / 84
p0 −2.102e−15 ± 6.476e−15
pull
Entries 85
Mean 69.85
Std Dev 34.77

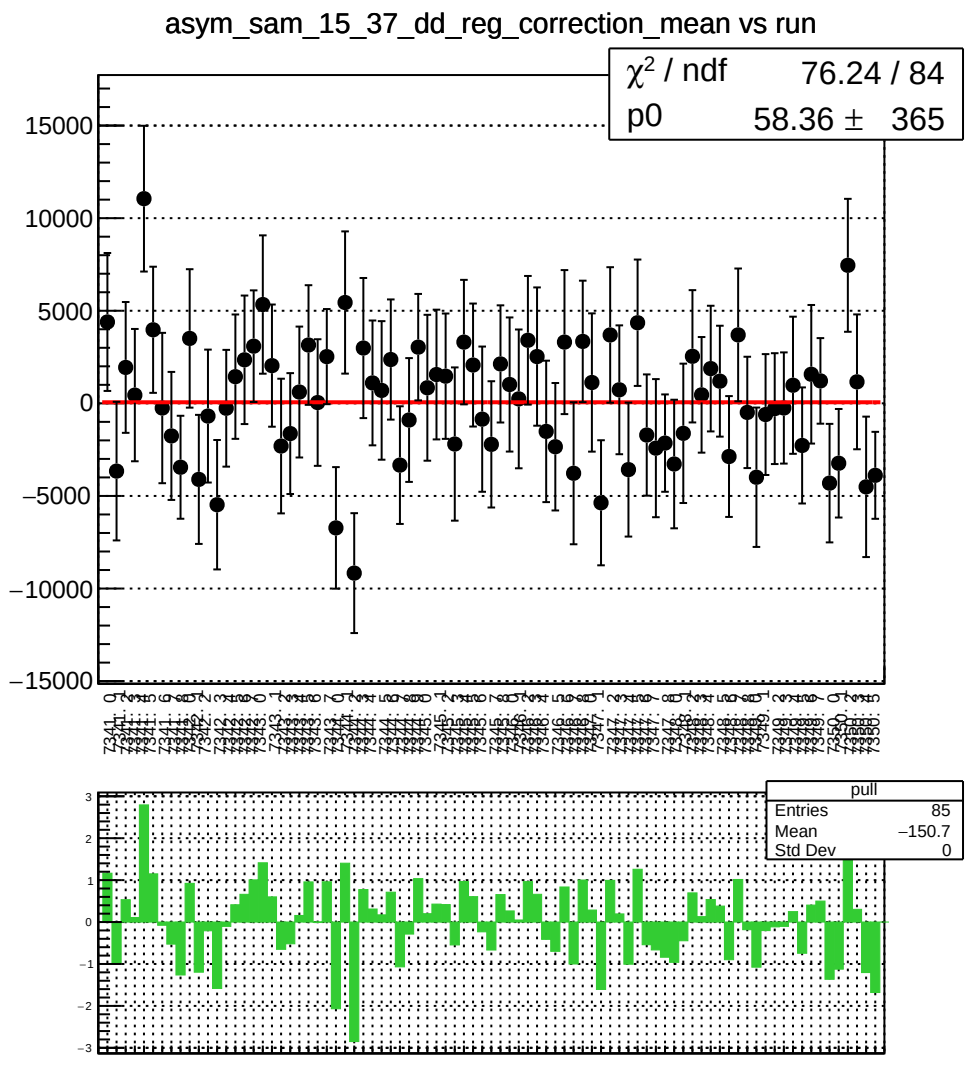

pull1D
Entries 85
Mean −0.04846
Std Dev 0.8556

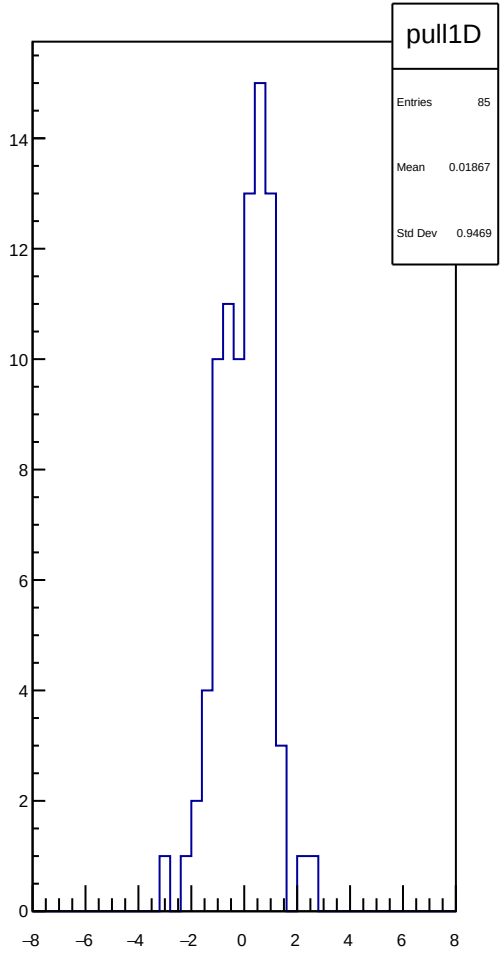

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.848e+05 / 84
p0 5.082e−12 ± 4.579e−15
20
18
16
14
12
10
8
6
4
2

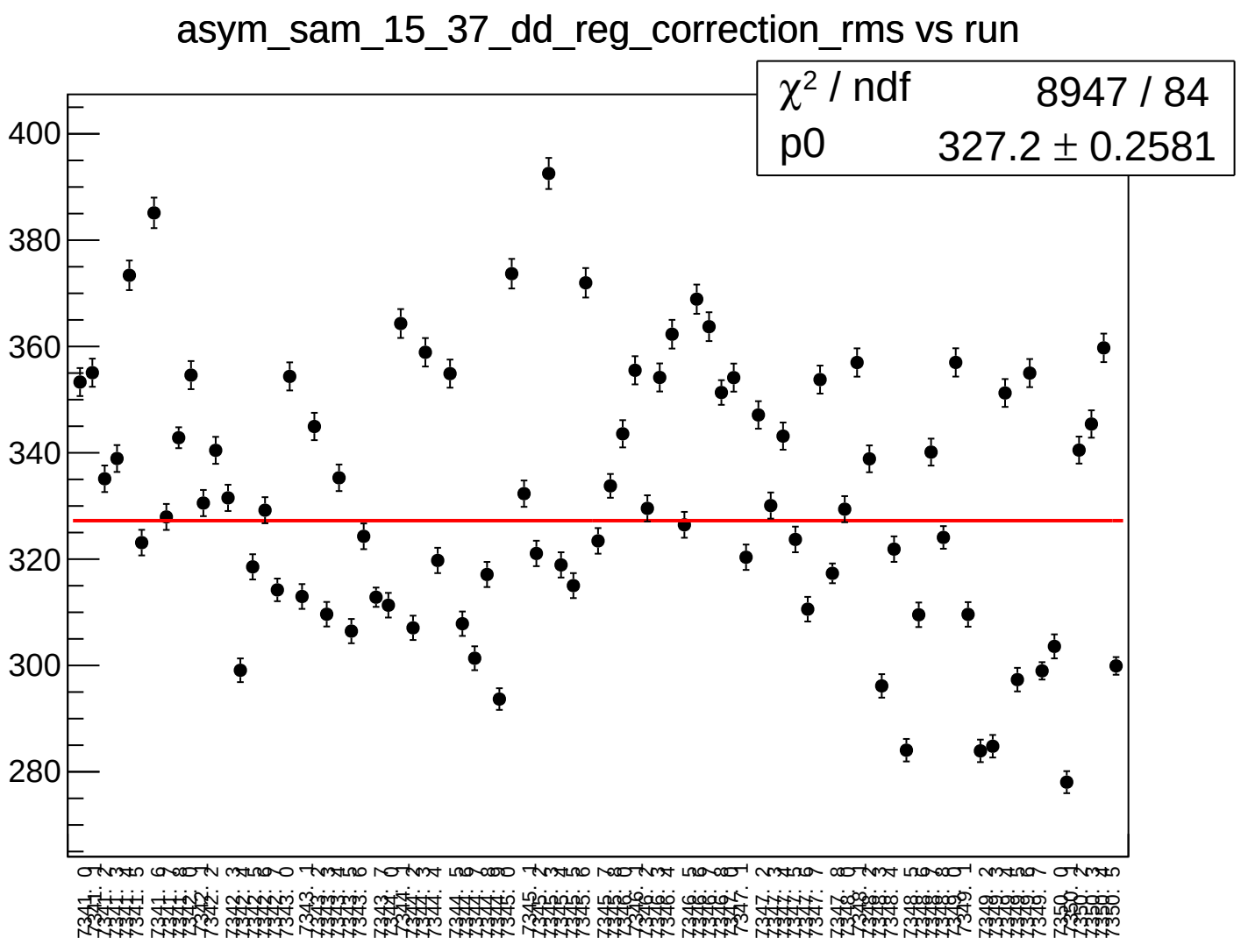

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 83.65 / 84
p0 −64.23 ± 46.94
pull
Entries 85
Mean 117.9
Std Dev 0

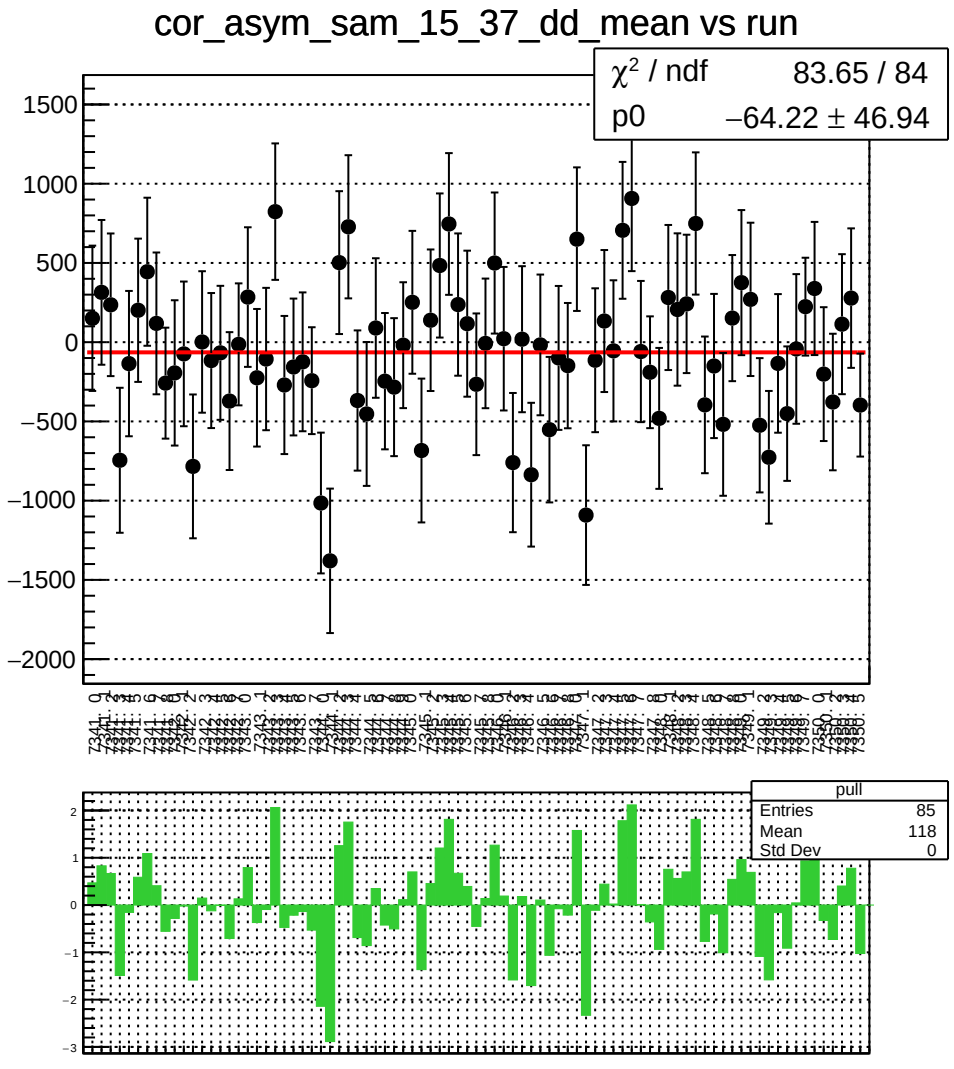

pull1D
Entries 85
Mean 0.007861
Std Dev 0.992

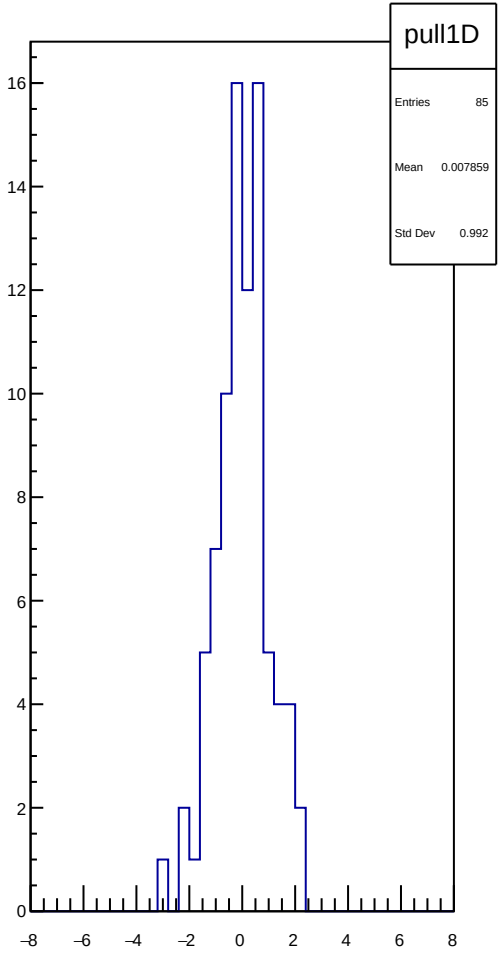

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1413 / 84
p0 42.18 ± 0.03319
46
45
44
43
42
41
40
39

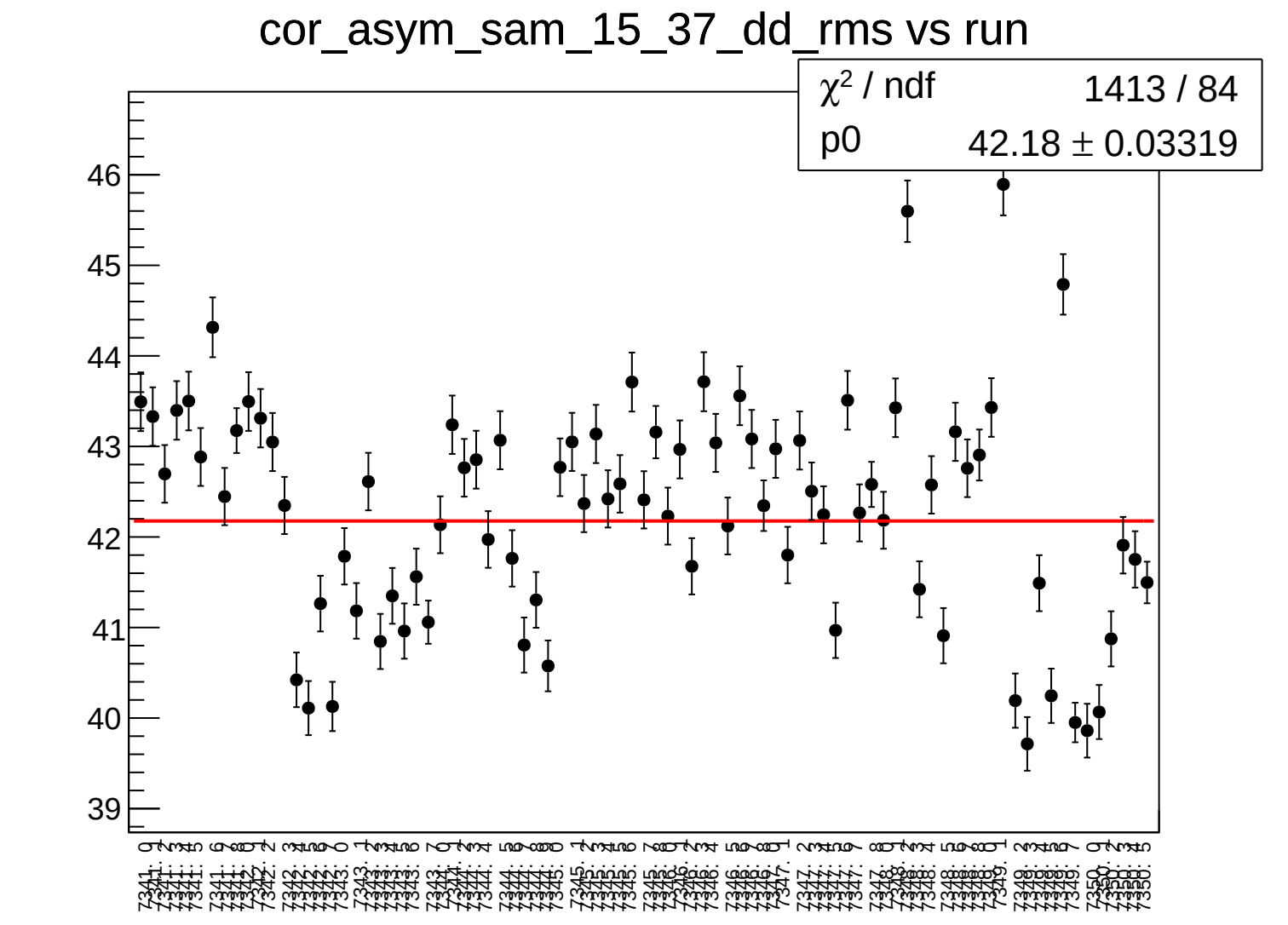

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 76.24 / 84
p0 58.36 ± 365
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −150.7
Std Dev 0
3
2
1
0
−1
−2
−3

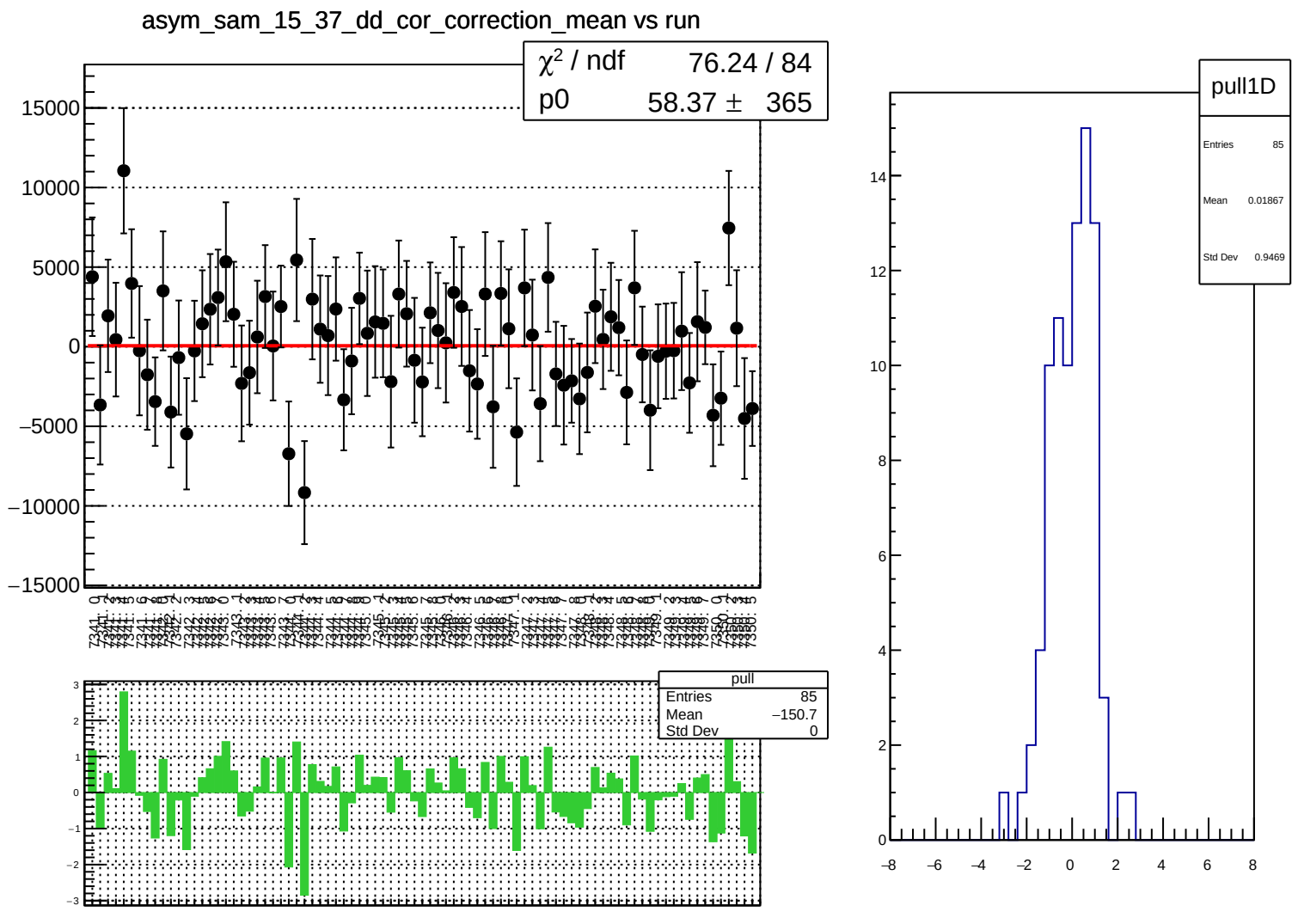

pull1D
Entries 85
Mean 0.01867
Std Dev 0.9469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

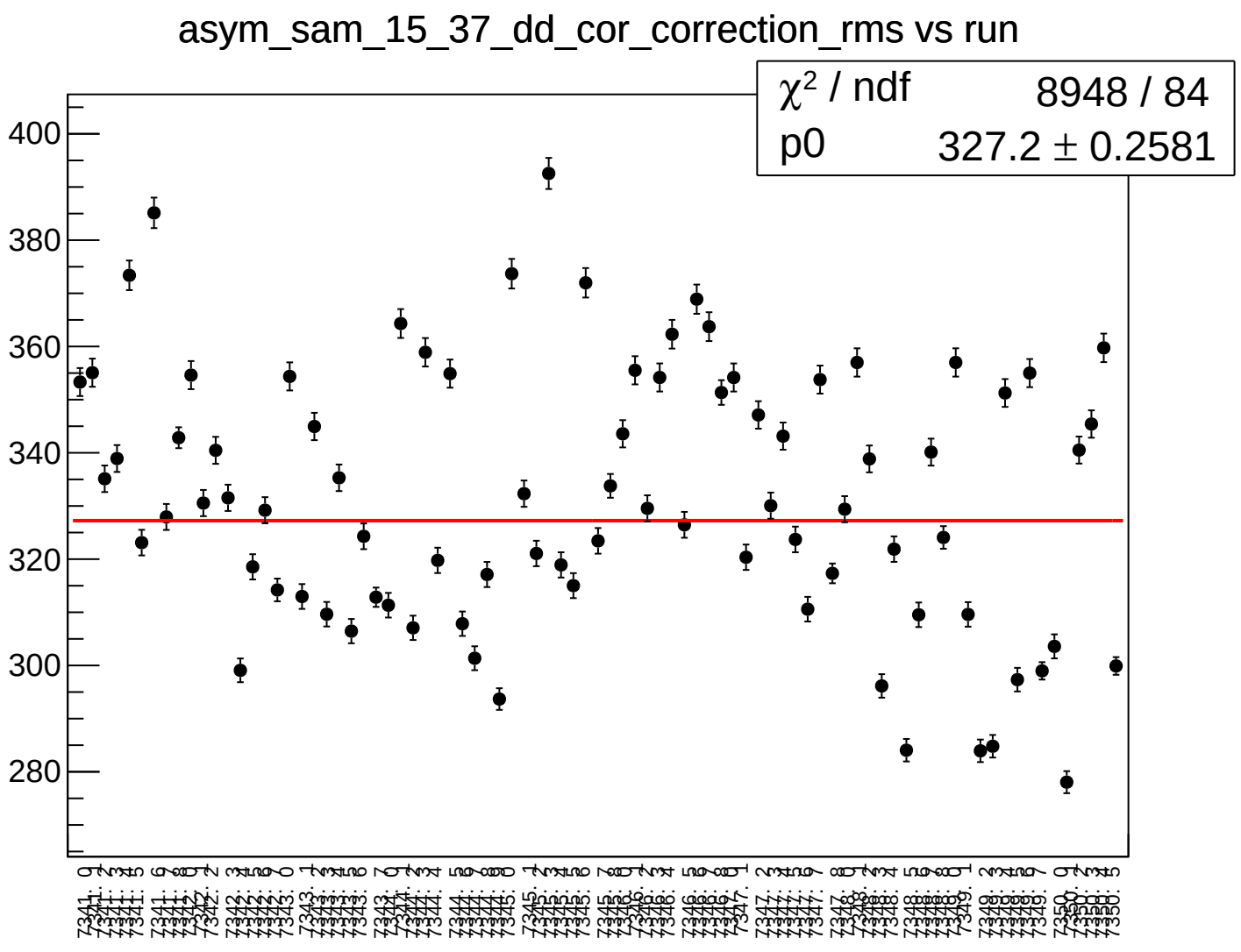

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 8947 / 84
p0 327.2 ± 0.2581
400
380
360
340
320
300
280

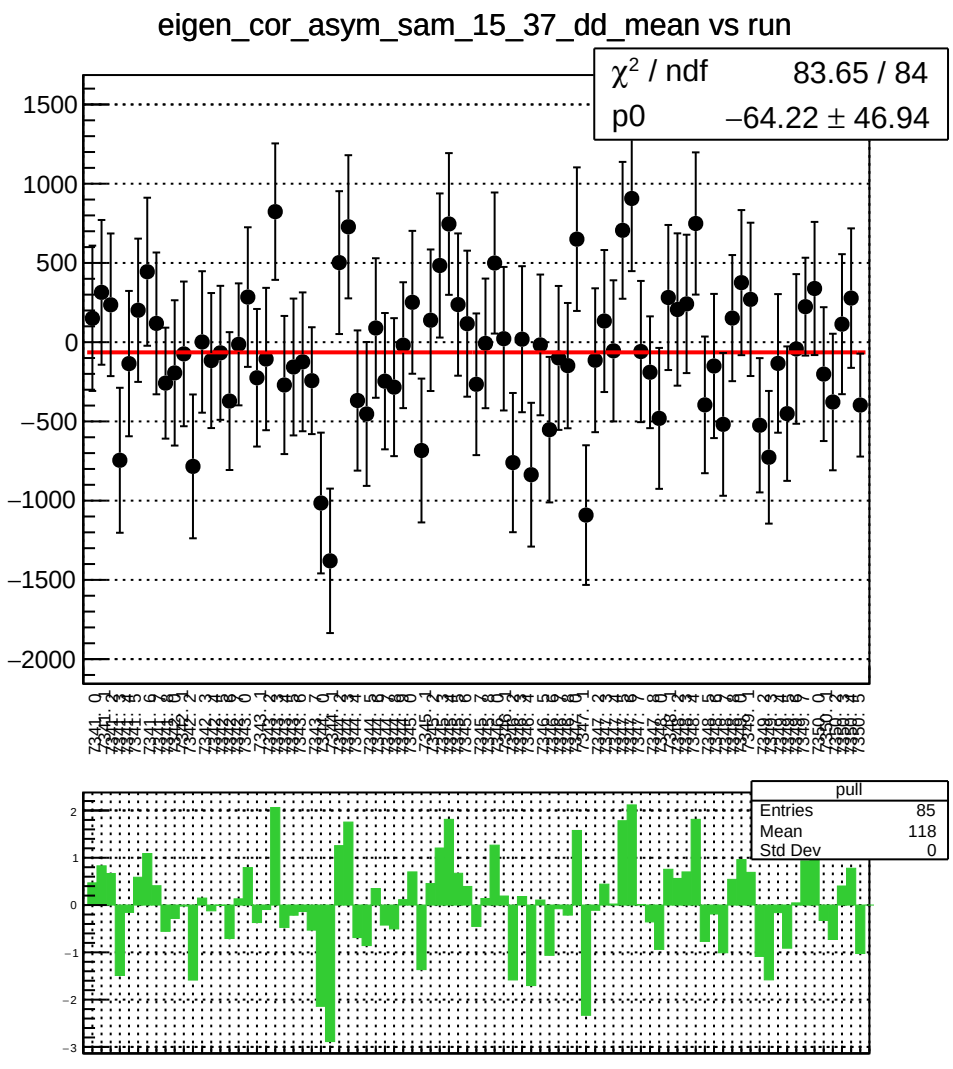

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 83.65 / 84
p0 −64.22 ± 46.94
pull
Entries 85
Mean 118
Std Dev 0

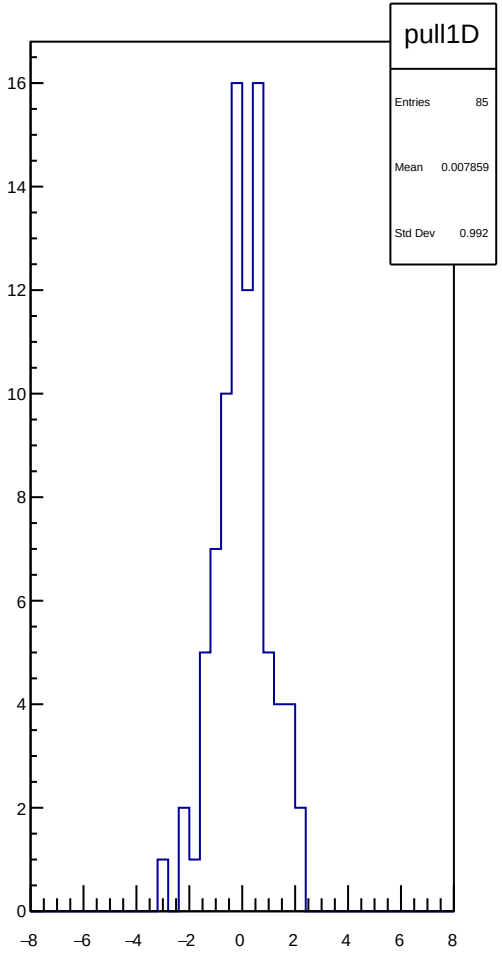

pull1D
Entries 85
Mean 0.007859
Std Dev 0.992

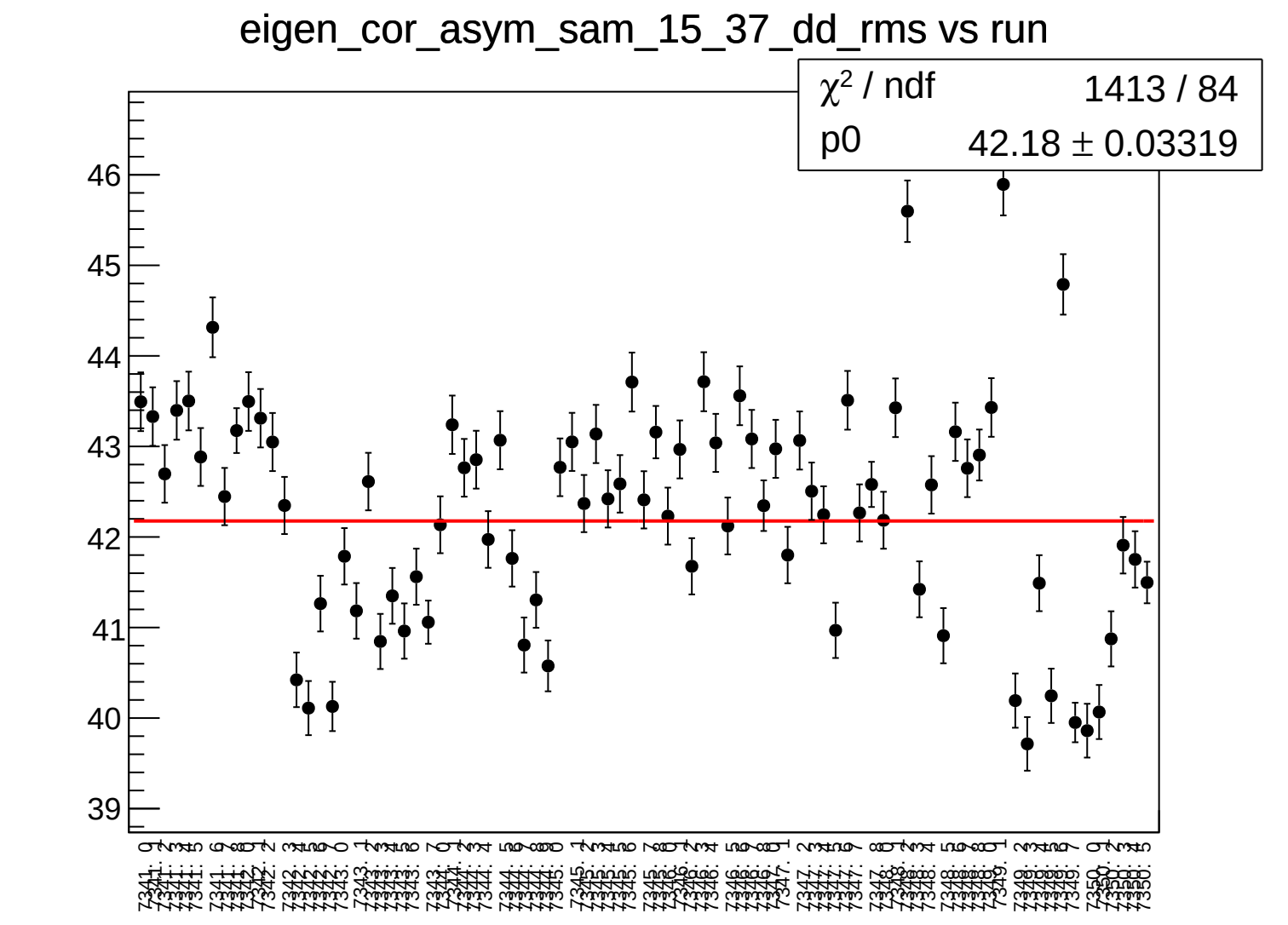

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1413 / 84
p0 42.18 ± 0.03319
46
45
44
43
42
41
40
39

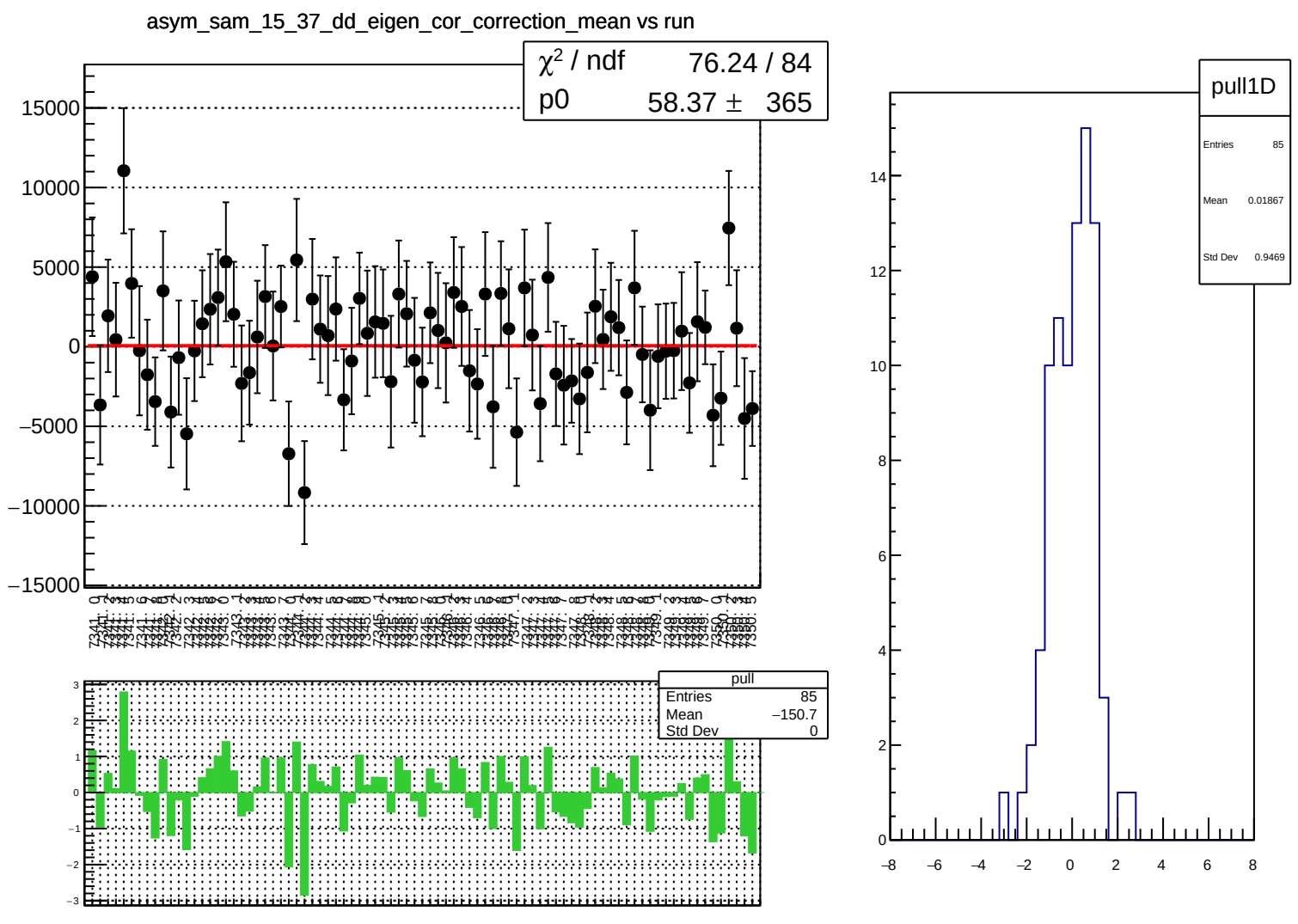

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 76.24 / 84
p0 58.37 ± 365
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −150.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.01867
Std Dev 0.9469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

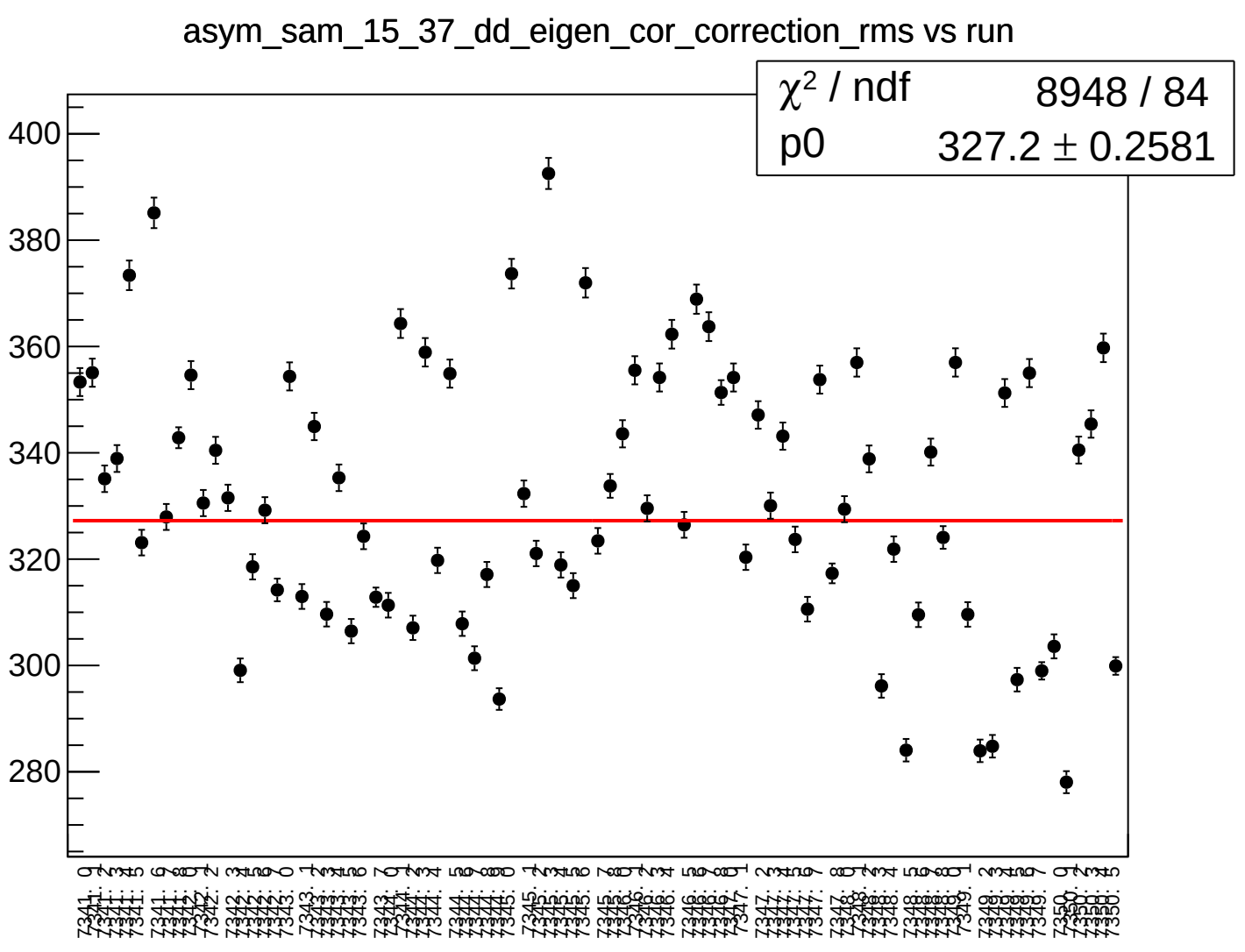

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 8948 / 84
p0 327.2 ± 0.2581
400
380
360
340
320
300
280

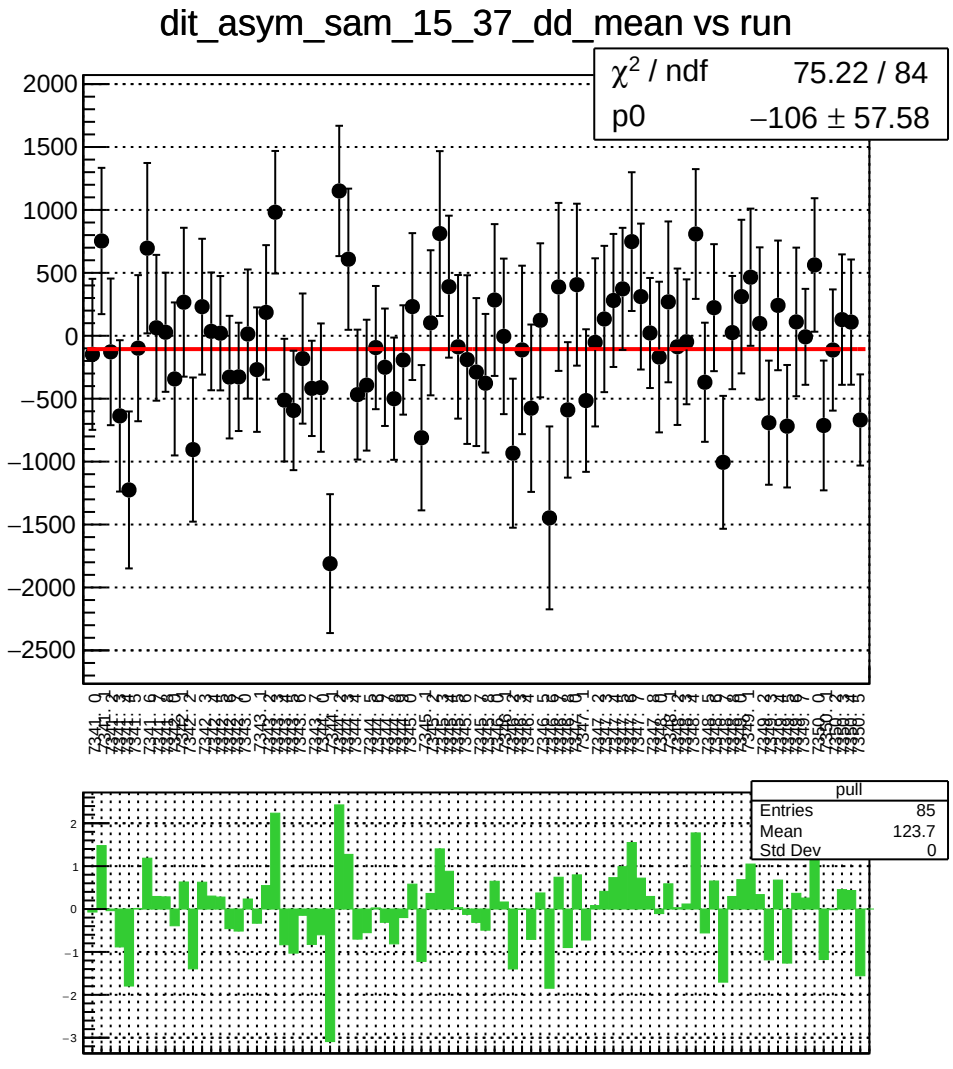

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 83.65 / 84
p0 −64.22 ± 46.94
pull
Entries 85
Mean 118
Std Dev 0

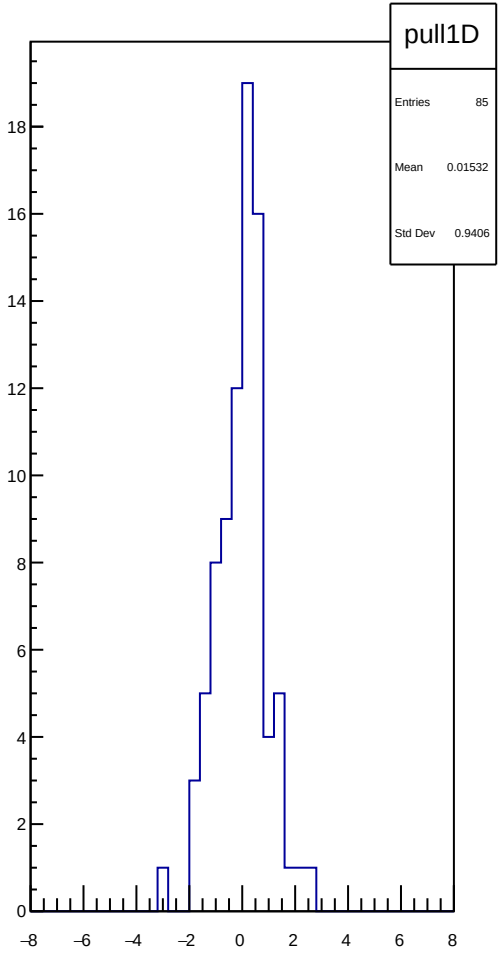

pull1D
Entries 85
Mean 0.007859
Std Dev 0.992

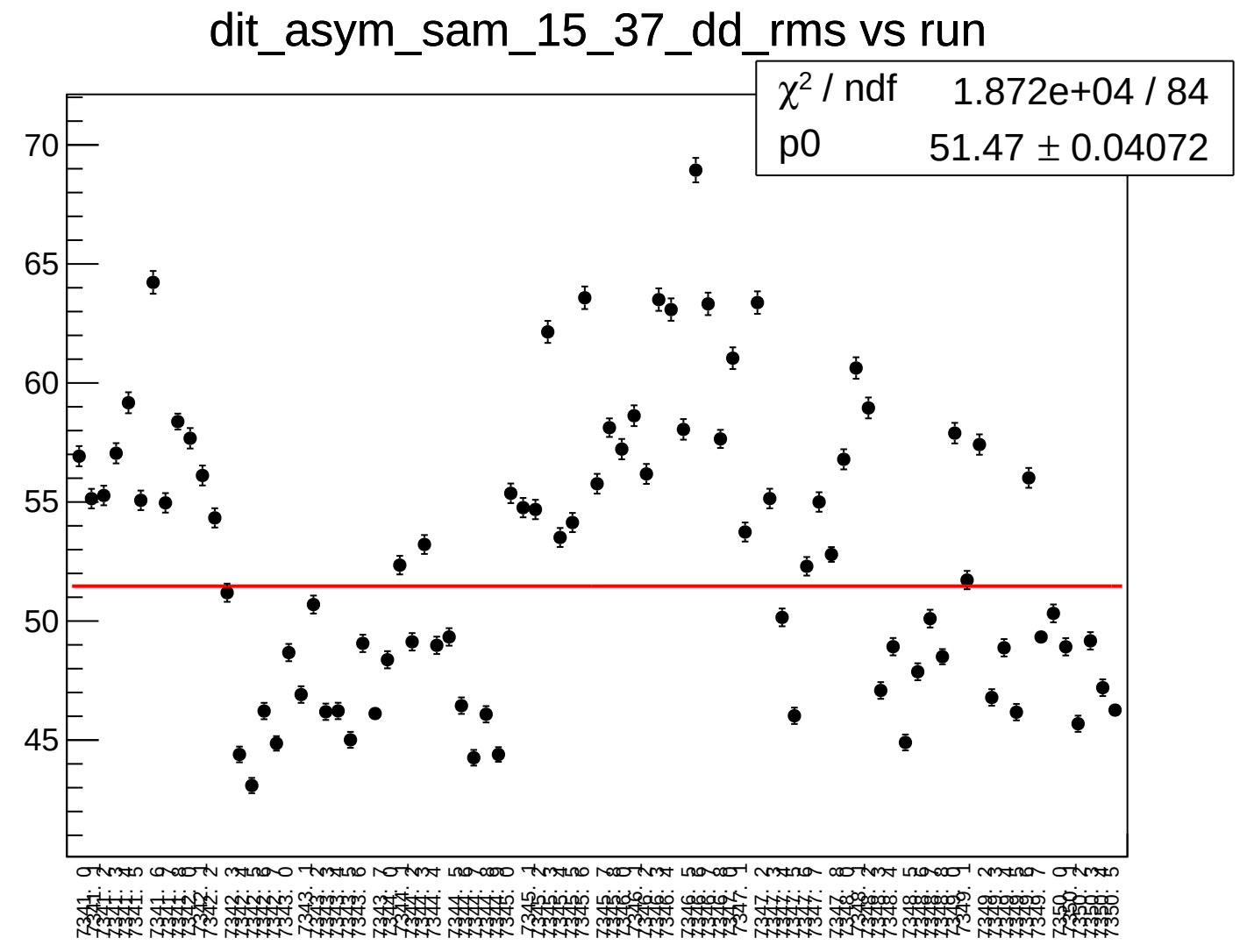

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1413 / 84
p0 42.18 ± 0.03319
46
45
44
43
42
41
40
39

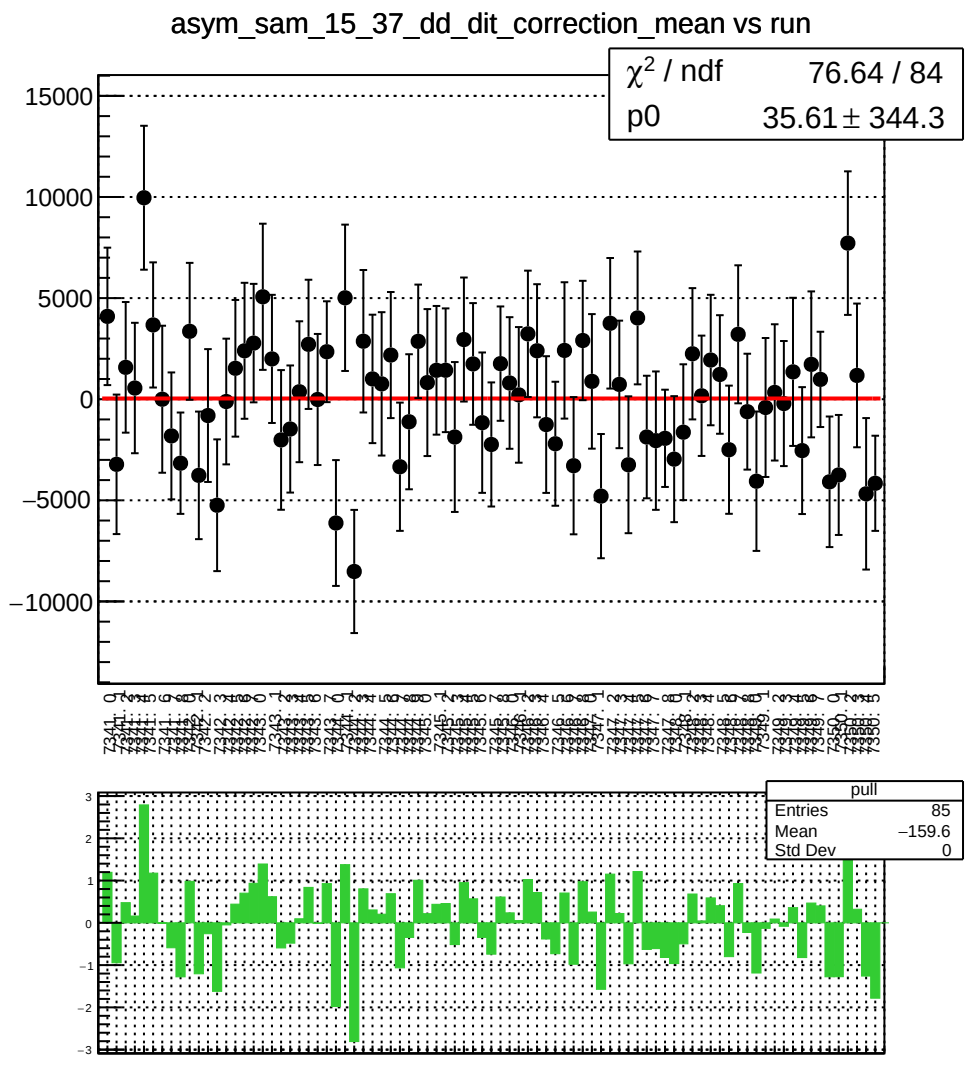

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.24 / 84
p0 58.37 ± 365
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean −150.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean 0.01867
Std Dev 0.9469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

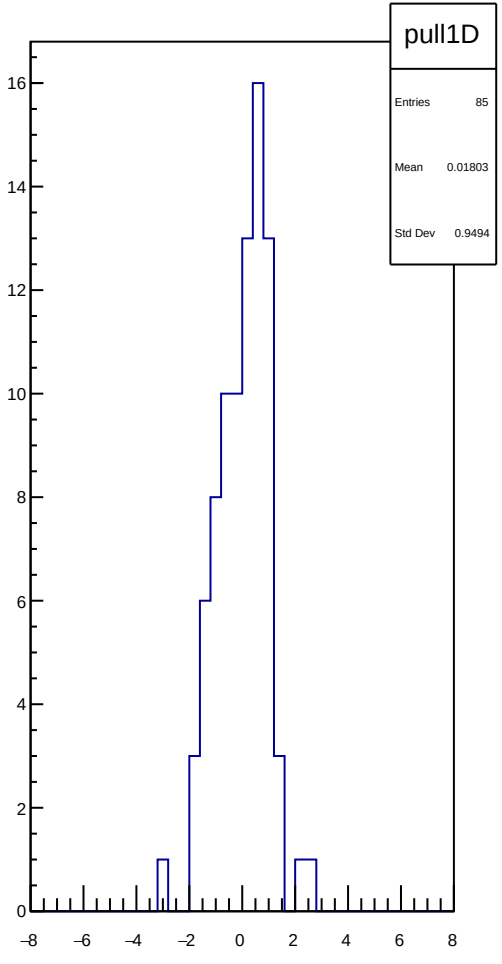

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 8948 / 84
p0 327.2 ± 0.2581
400
380
360
340
320
300
280

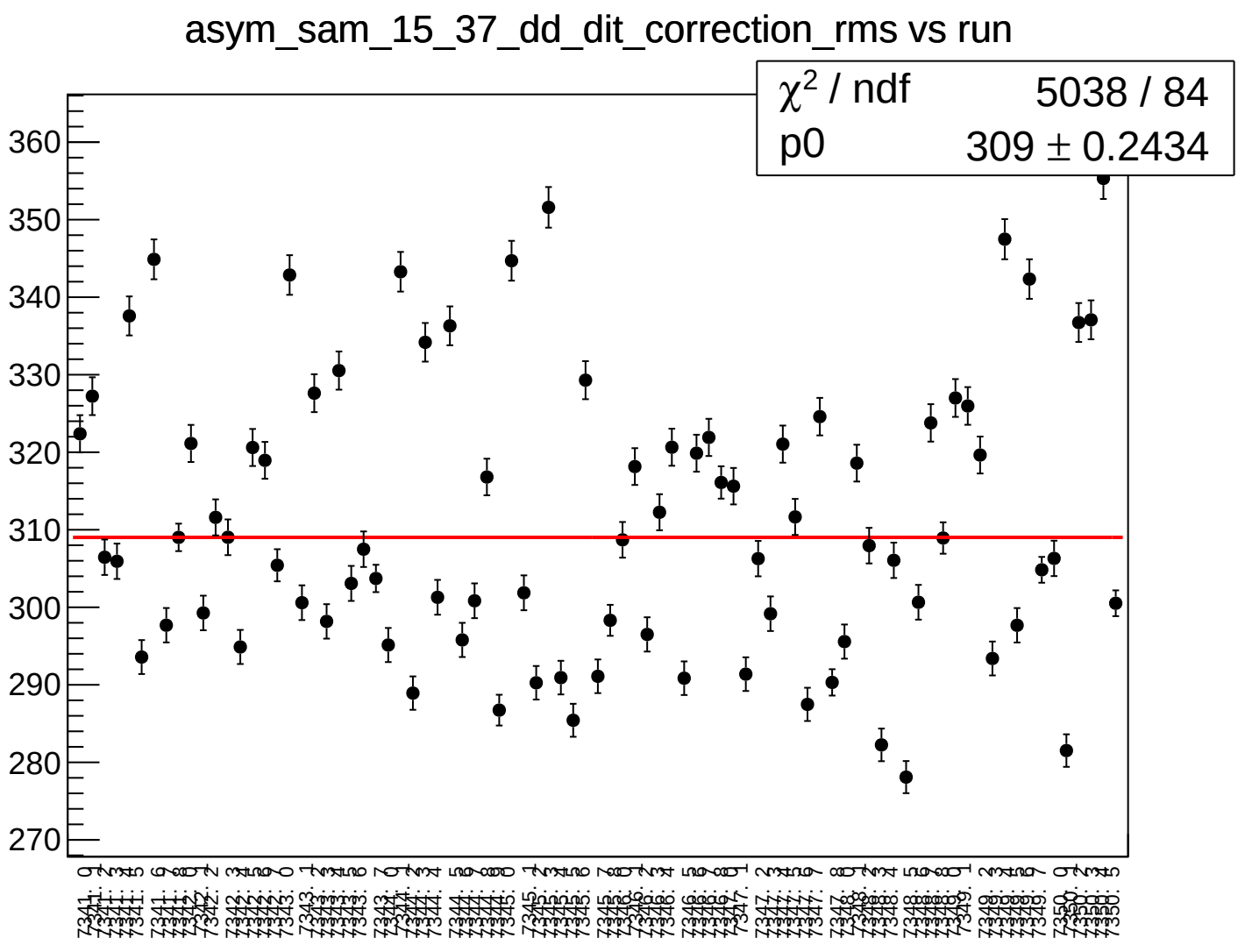

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 75.22 / 84
p0 −106 ± 57.58
pull
Entries 85
Mean 123.7
Std Dev 0

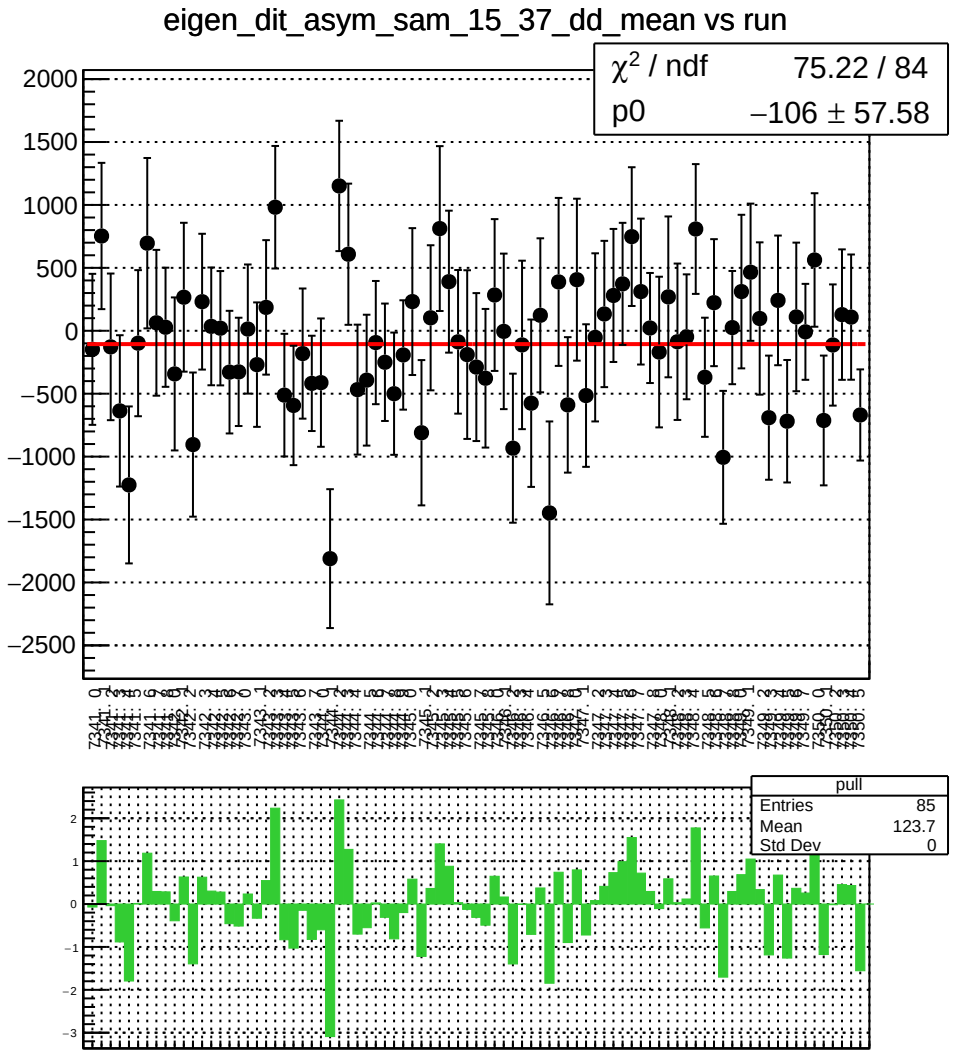

pull1D
Entries 85
Mean 0.01532
Std Dev 0.9406

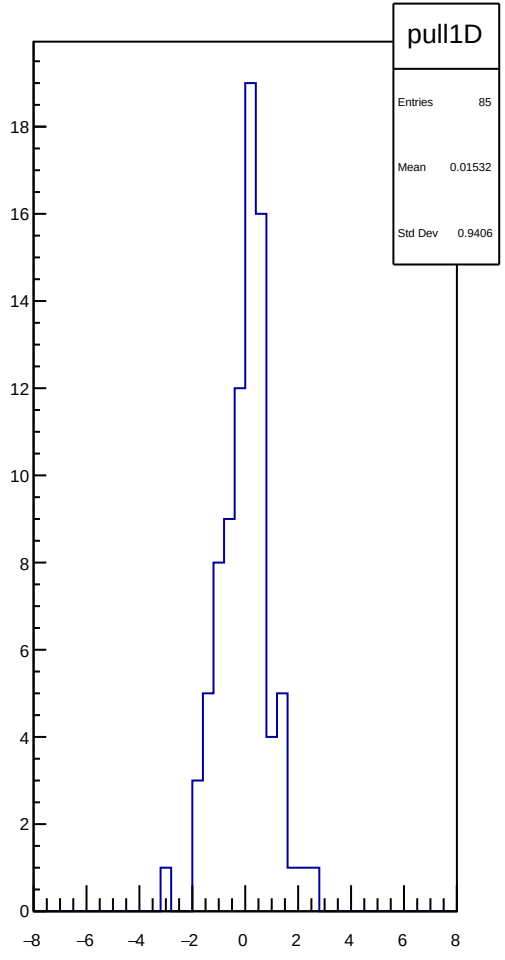

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.872e+04 / 84
p0 51.47 ± 0.04072
70
65
60
55
50
45

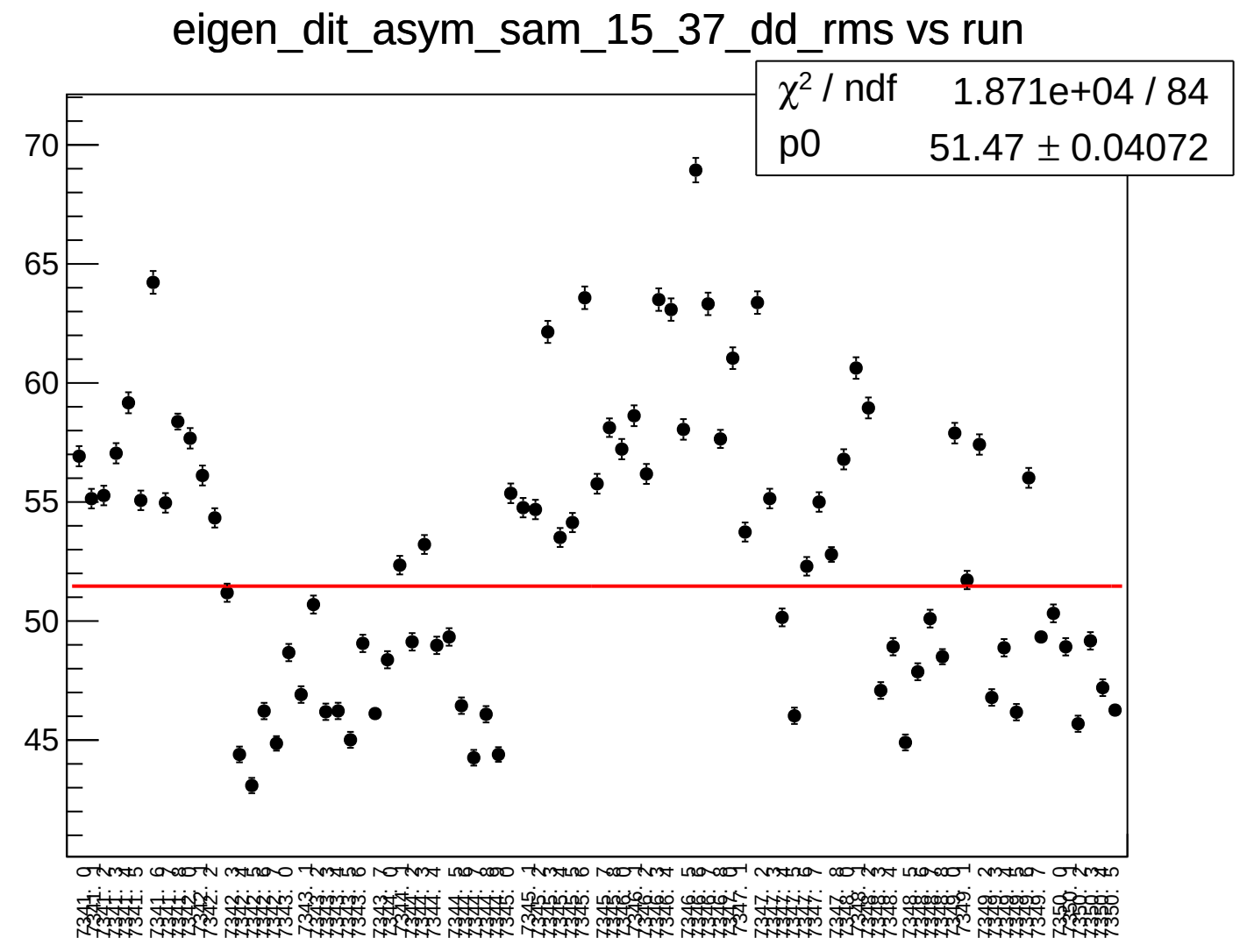

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 76.64 / 84
p0 35.61 ± 344.3
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −159.6
Std Dev 0
3
2
1
0
−1
−2
−3

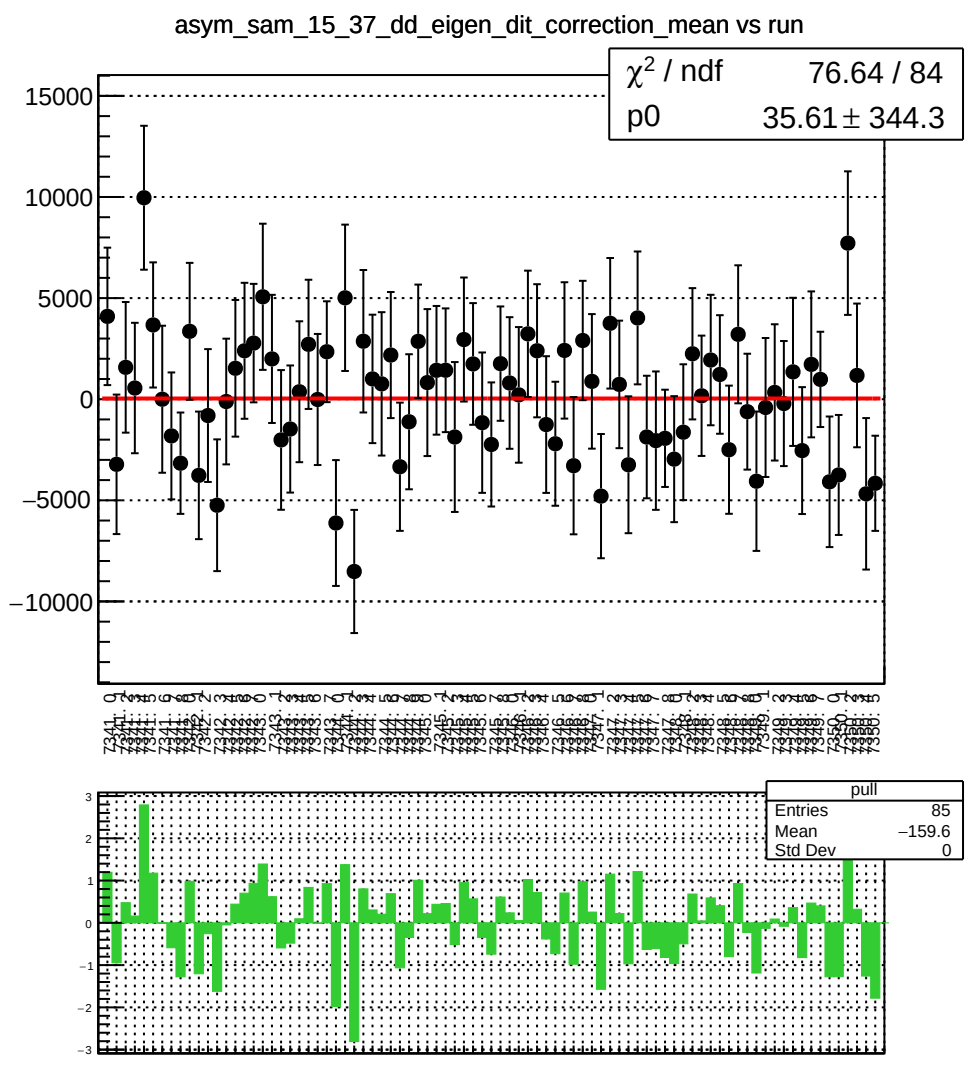

pull1D
Entries 85
Mean 0.01803
Std Dev 0.9494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

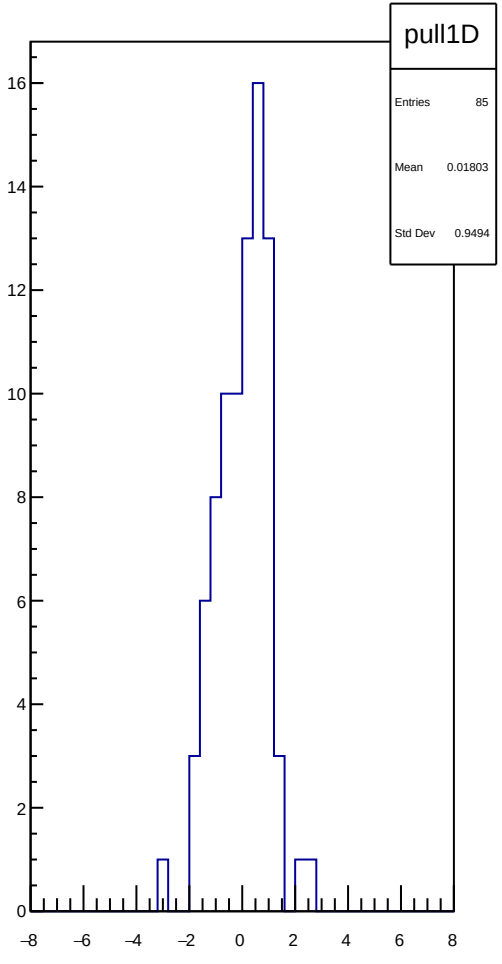

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 5038 / 84
p0 309 ± 0.2434
360
350
340
330
320
310
300
290
280
270

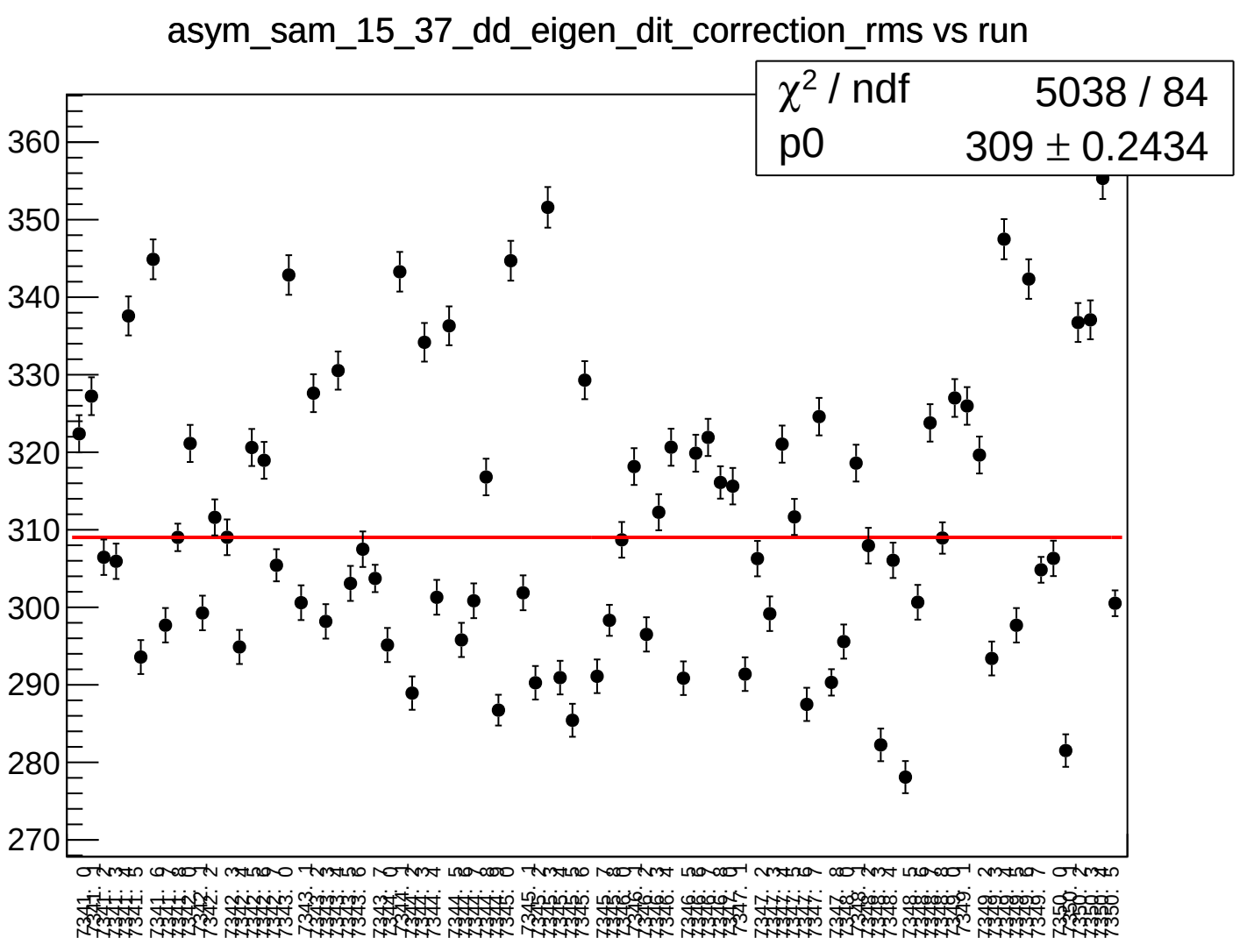

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 75.22 / 84
p0 −106 ± 57.58
pull
Entries 85
Mean 123.7
Std Dev 0

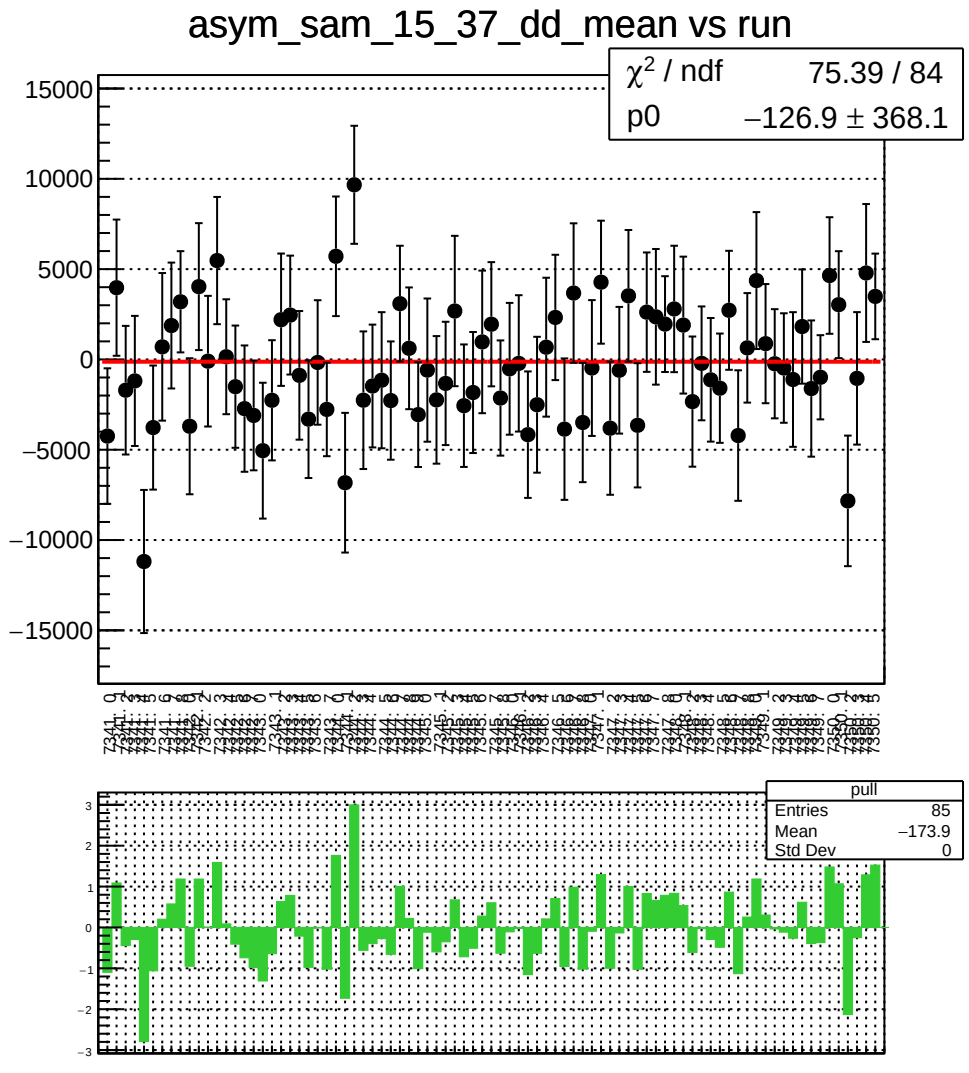

pull1D
Entries 85
Mean 0.01532
Std Dev 0.9406

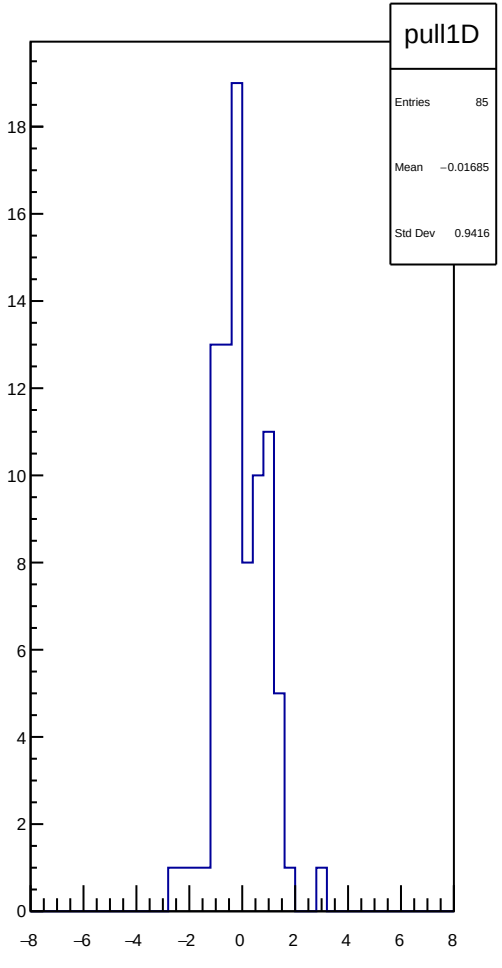

eigen_dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.871e+04 / 84
p0 51.47 ± 0.04072
70
65
60
55
50
45

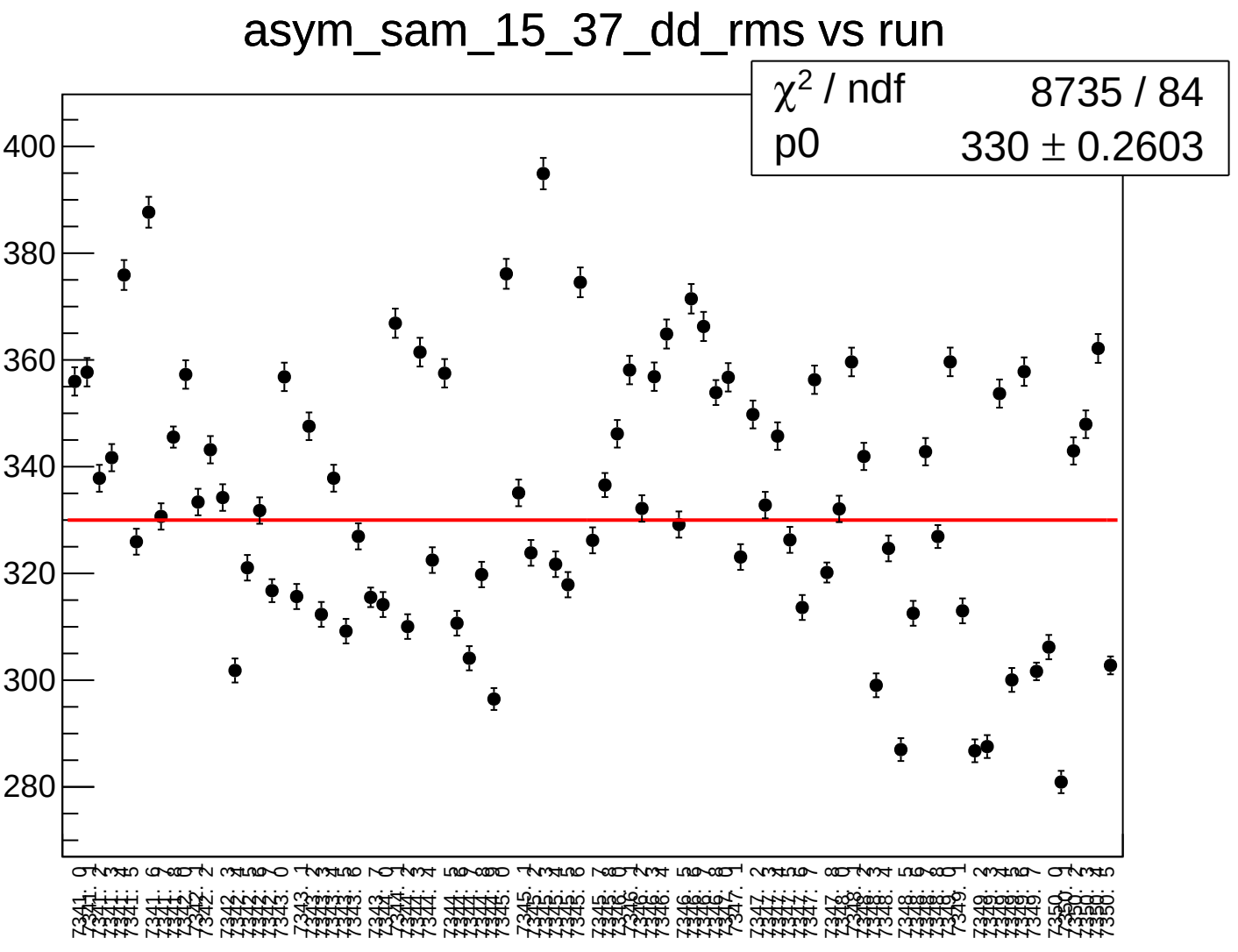

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.64 / 84
p0 35.61 ± 344.3
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −159.6
Std Dev 0
3
2
1
0
−1
−2
−3

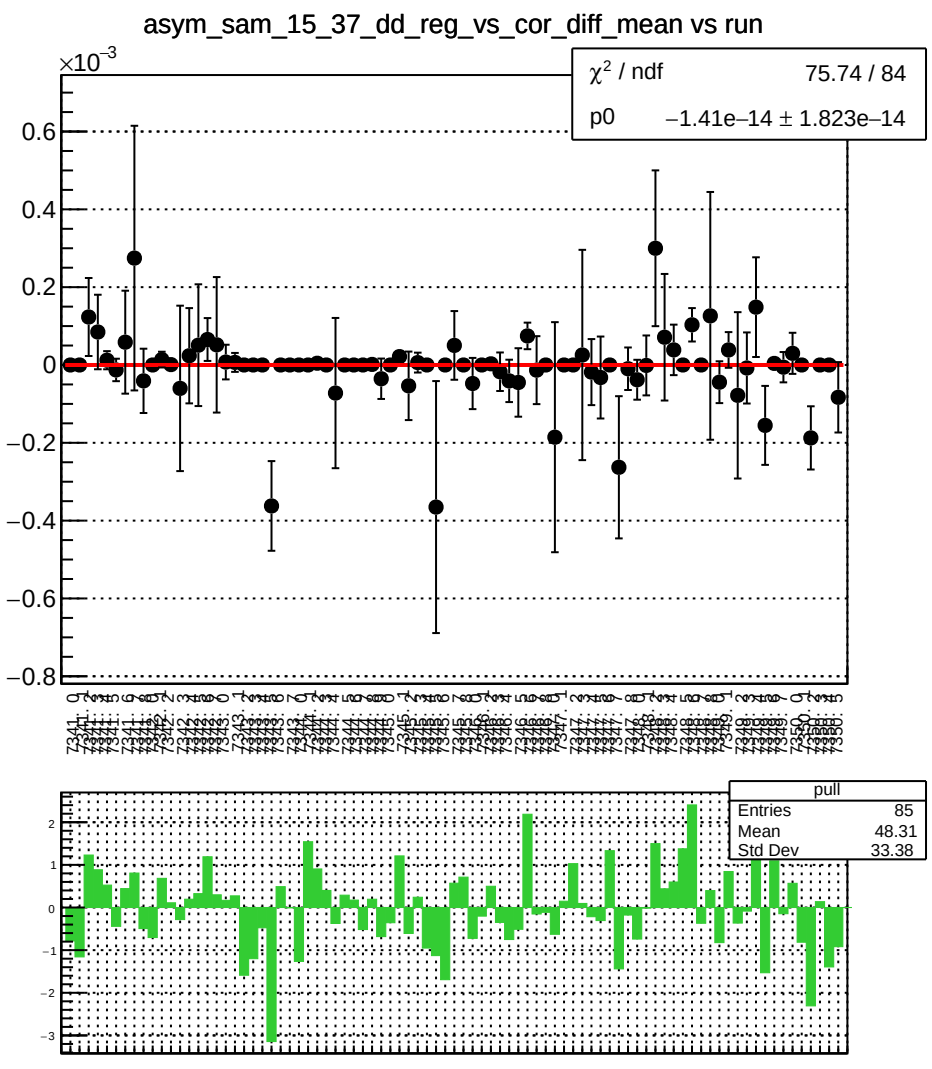

pull1D
Entries 85
Mean 0.01803
Std Dev 0.9494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

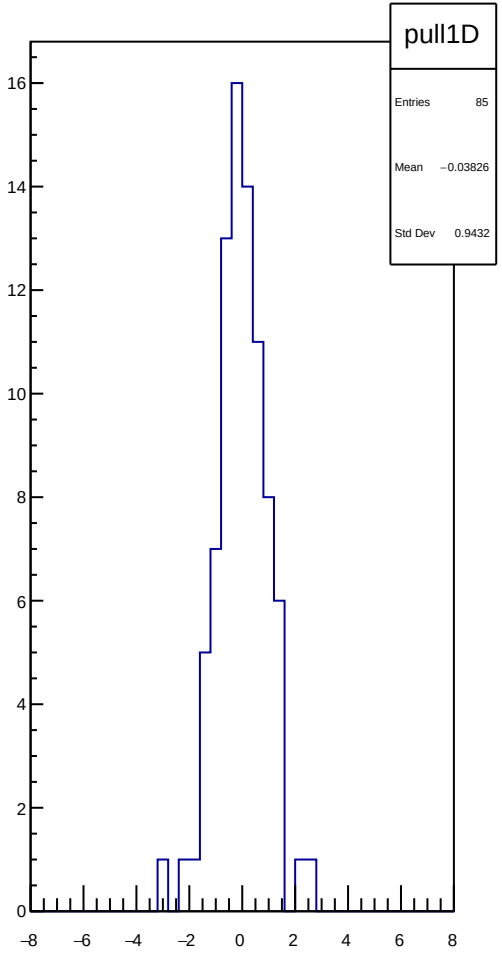

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 5038 / 84
p0 309 ± 0.2434
360
350
340
330
320
310
300
290
280
270

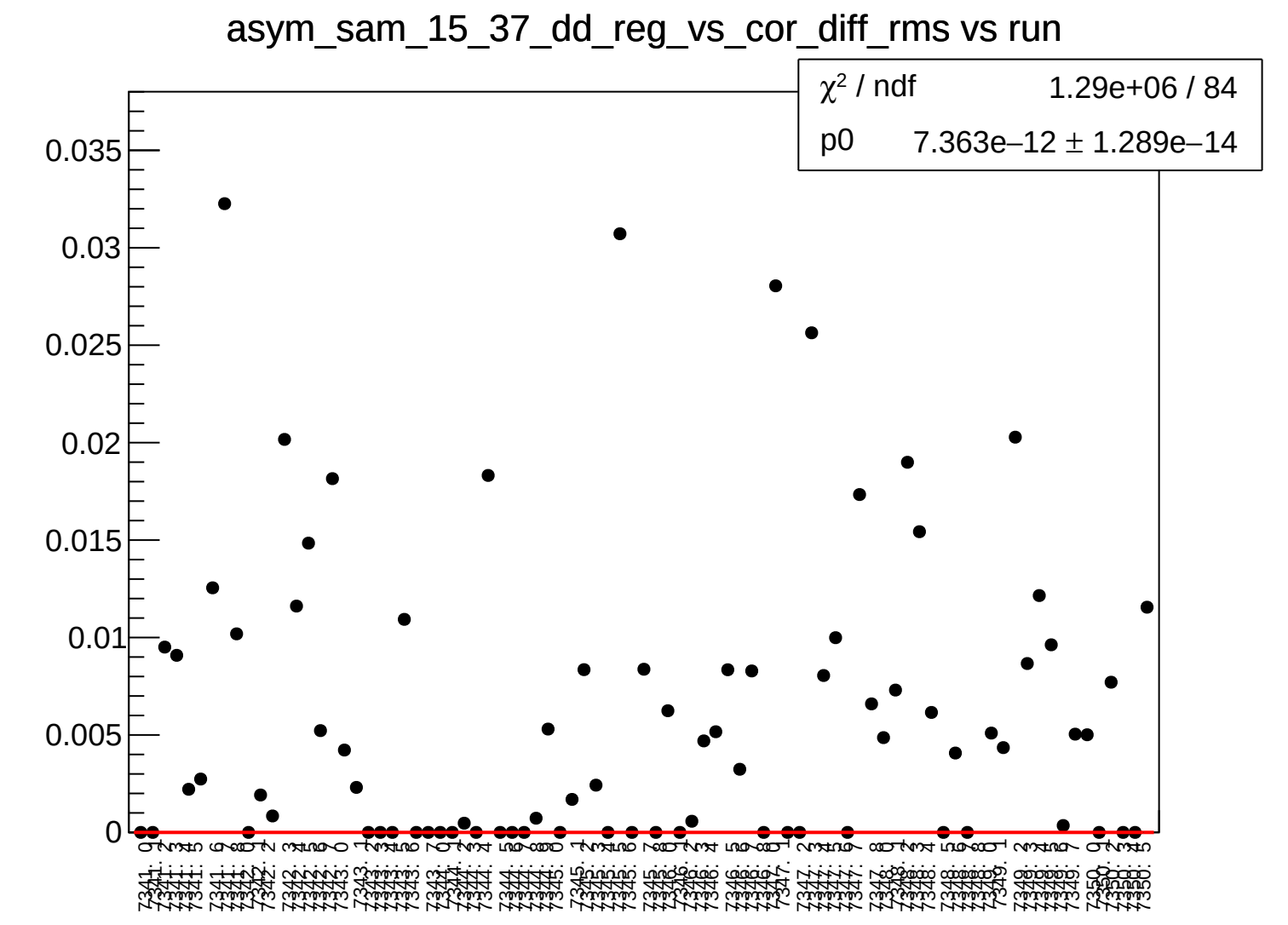

asym_sam_15_37_dd_mean vs run
χ² / ndf 75.39 / 84
p0 −126.9 ± 368.1
pull
Entries 85
Mean −173.9
Std Dev 0

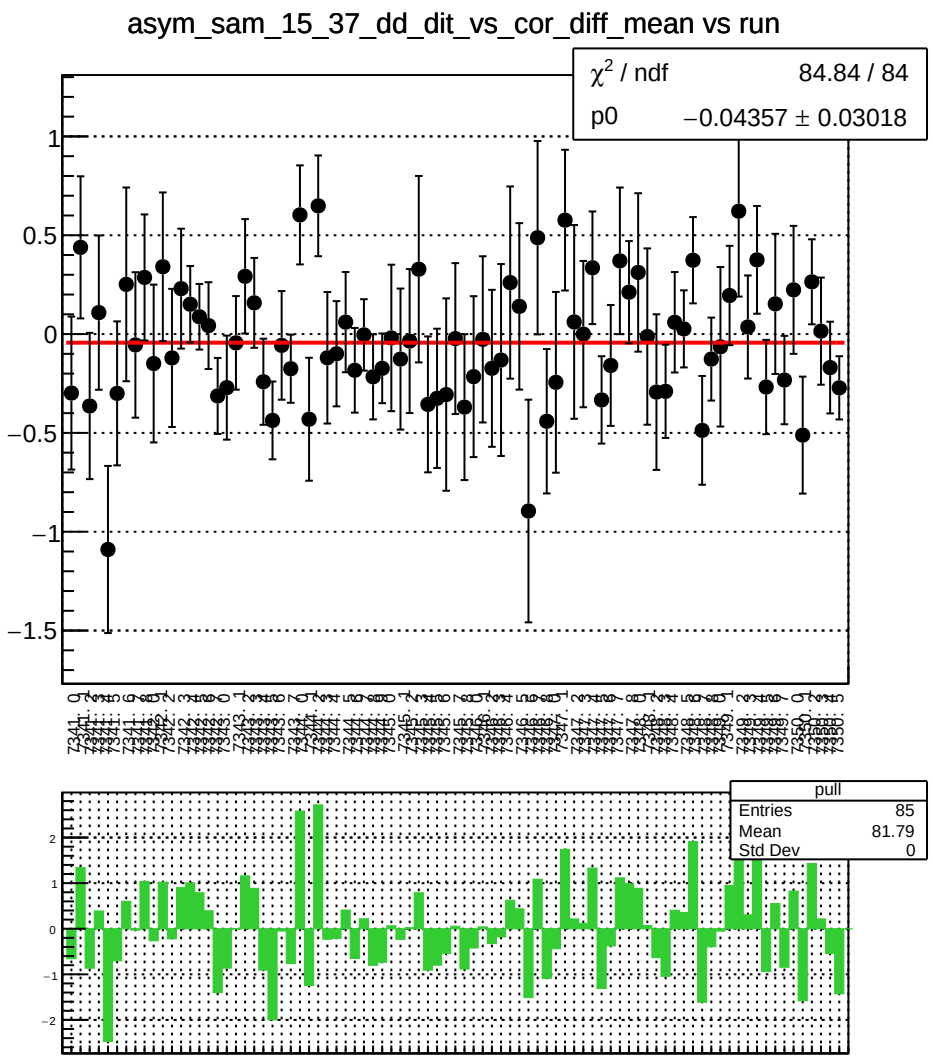

pull1D
Entries 85
Mean −0.01685
Std Dev 0.9416

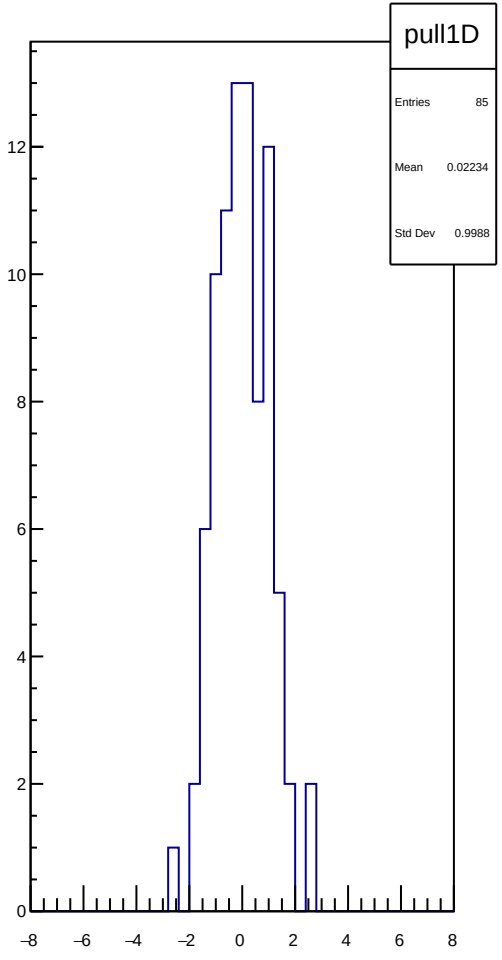

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 8735 / 84
p0 330 ± 0.2603
400
380
360
340
320
300
280

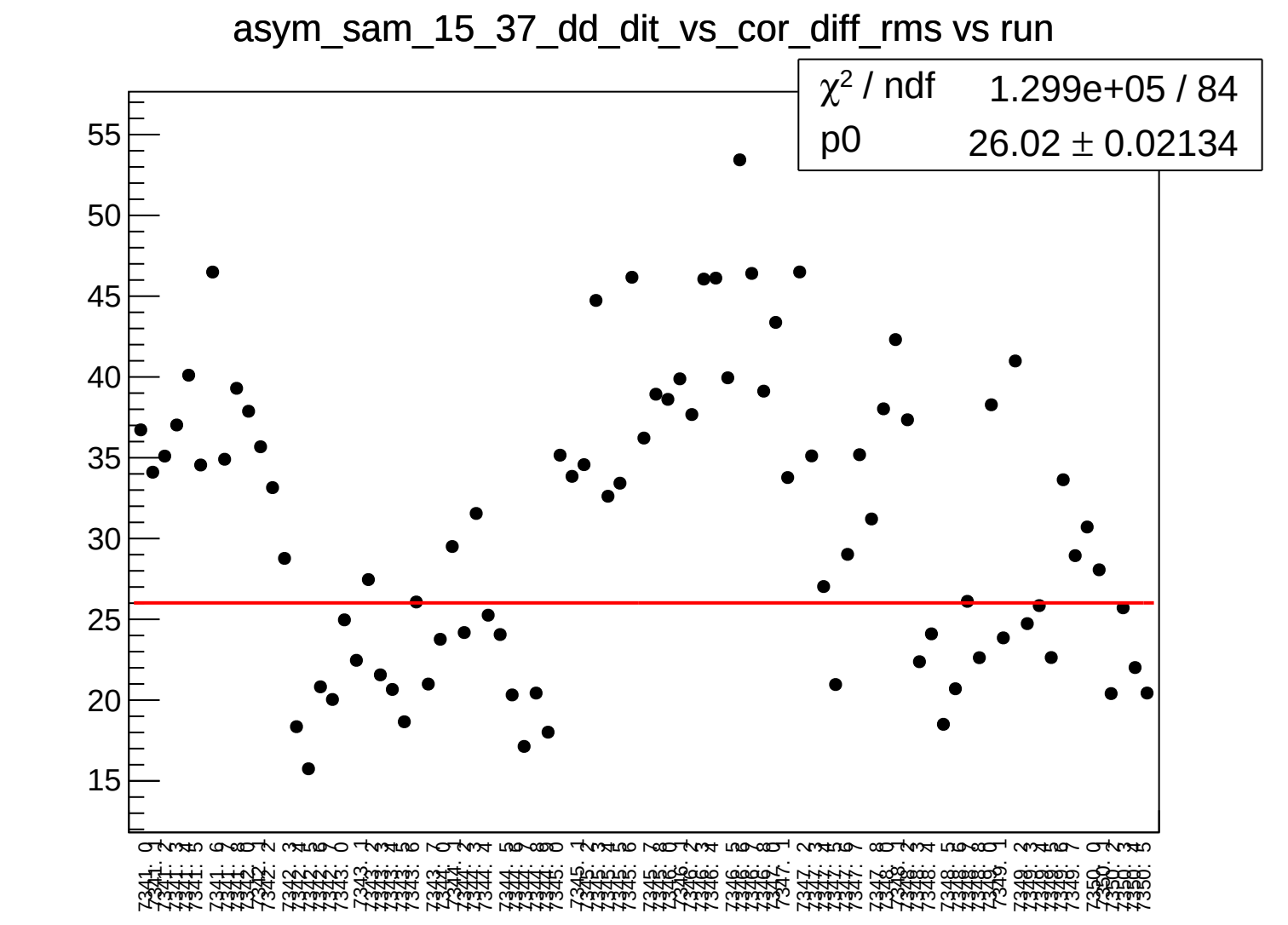

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 75.74 / 84
p0 −1.41e−14 ± 1.823e−14
pull
Entries 85
Mean 48.31
Std Dev 33.38

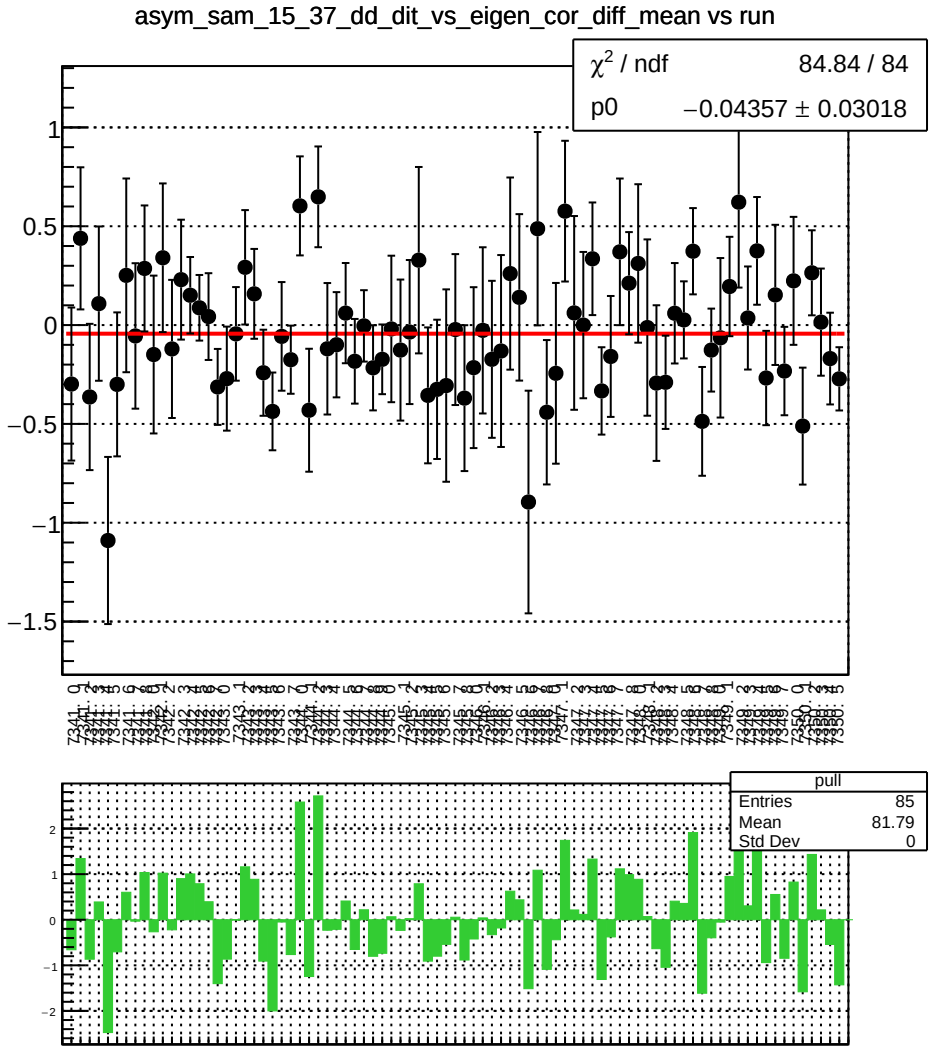

pull1D
Entries 85
Mean −0.03826
Std Dev 0.9432

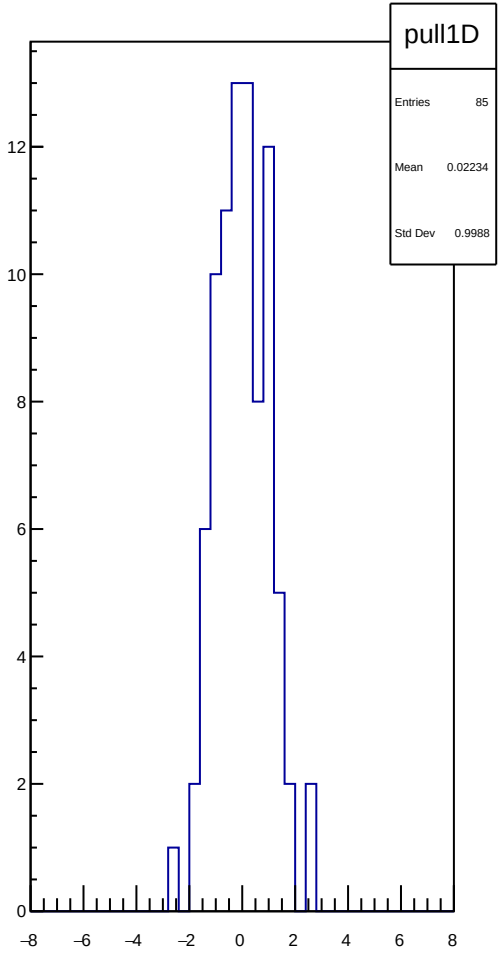

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.29e+06 / 84
p0 7.363e−12 ± 1.289e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

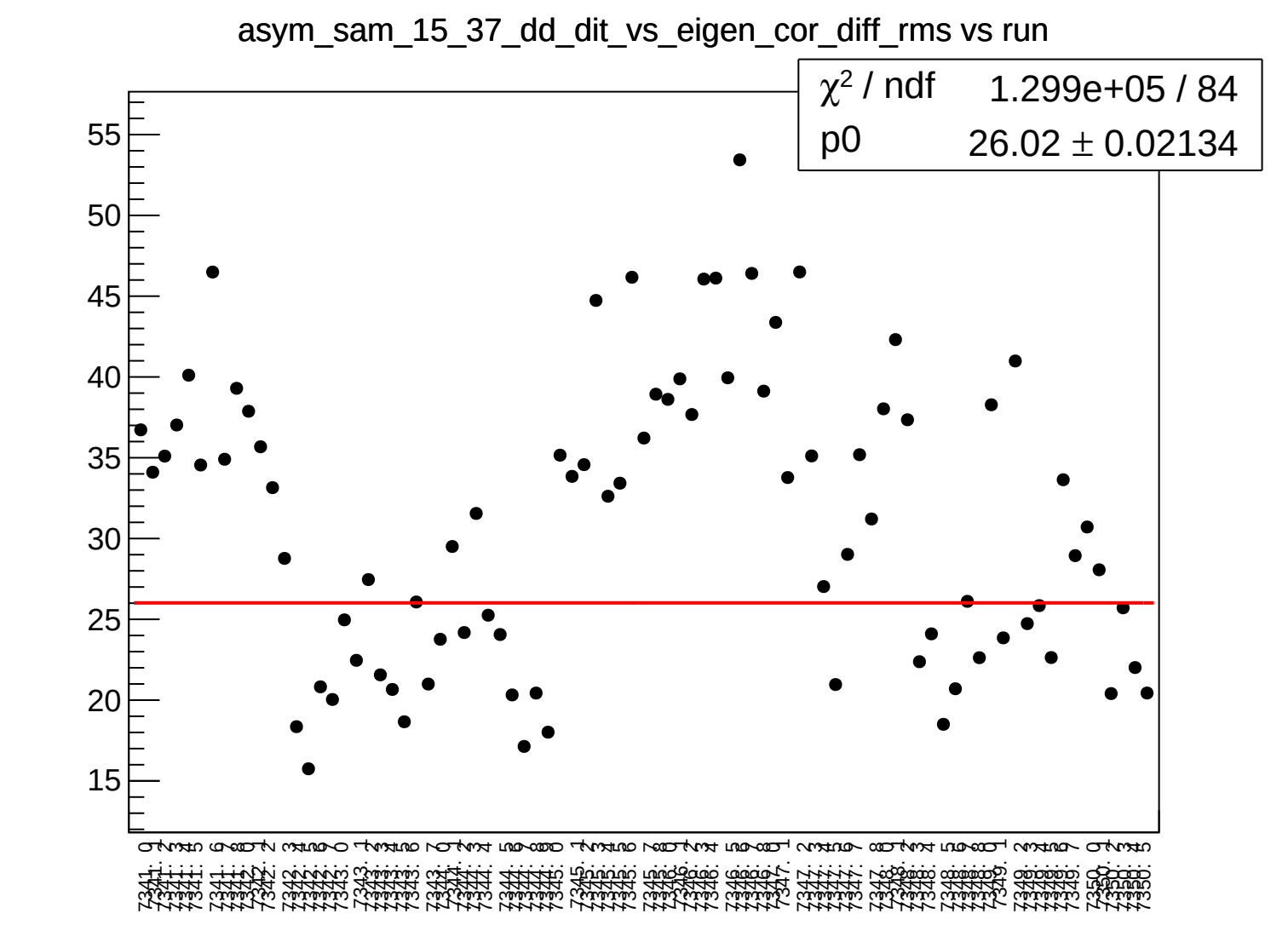

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.84 / 84
p0 −0.04357 ± 0.03018
pull
Entries 85
Mean 81.79
Std Dev 0

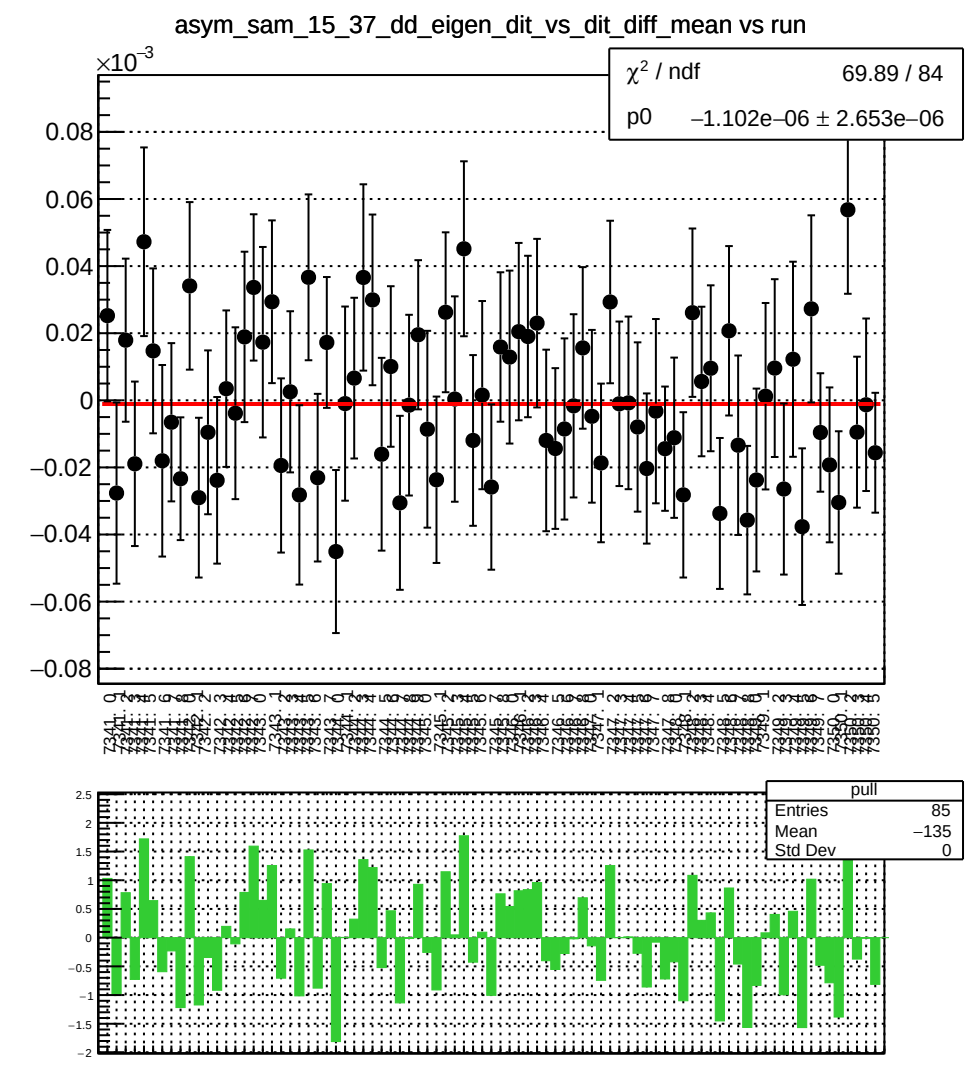

pull1D
Entries 85
Mean 0.02234
Std Dev 0.9988

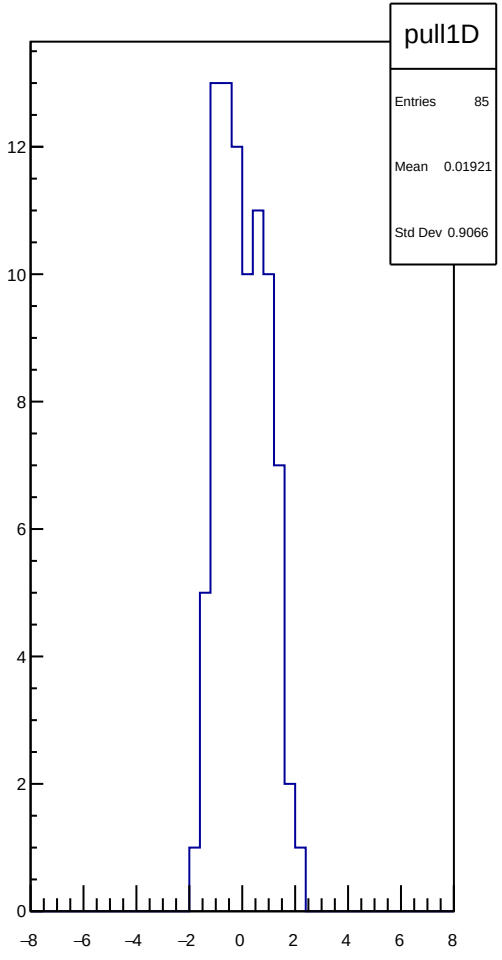

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.299e+05 / 84
p0 26.02 ± 0.02134
55
50
45
40
35
30
25
20
15

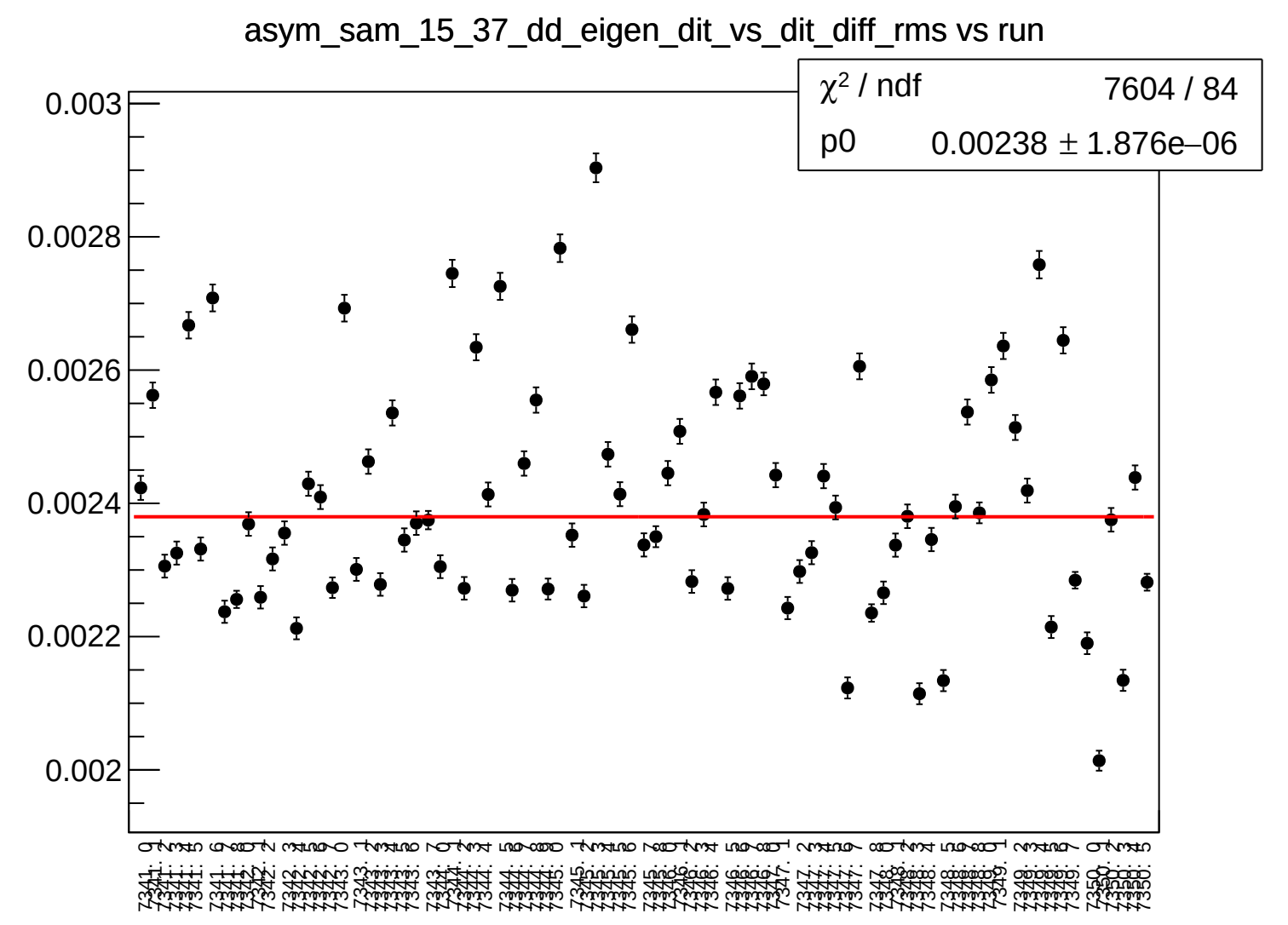

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.84 / 84
p0 −0.04357 ± 0.03018
pull
Entries 85
Mean 81.79
Std Dev 0

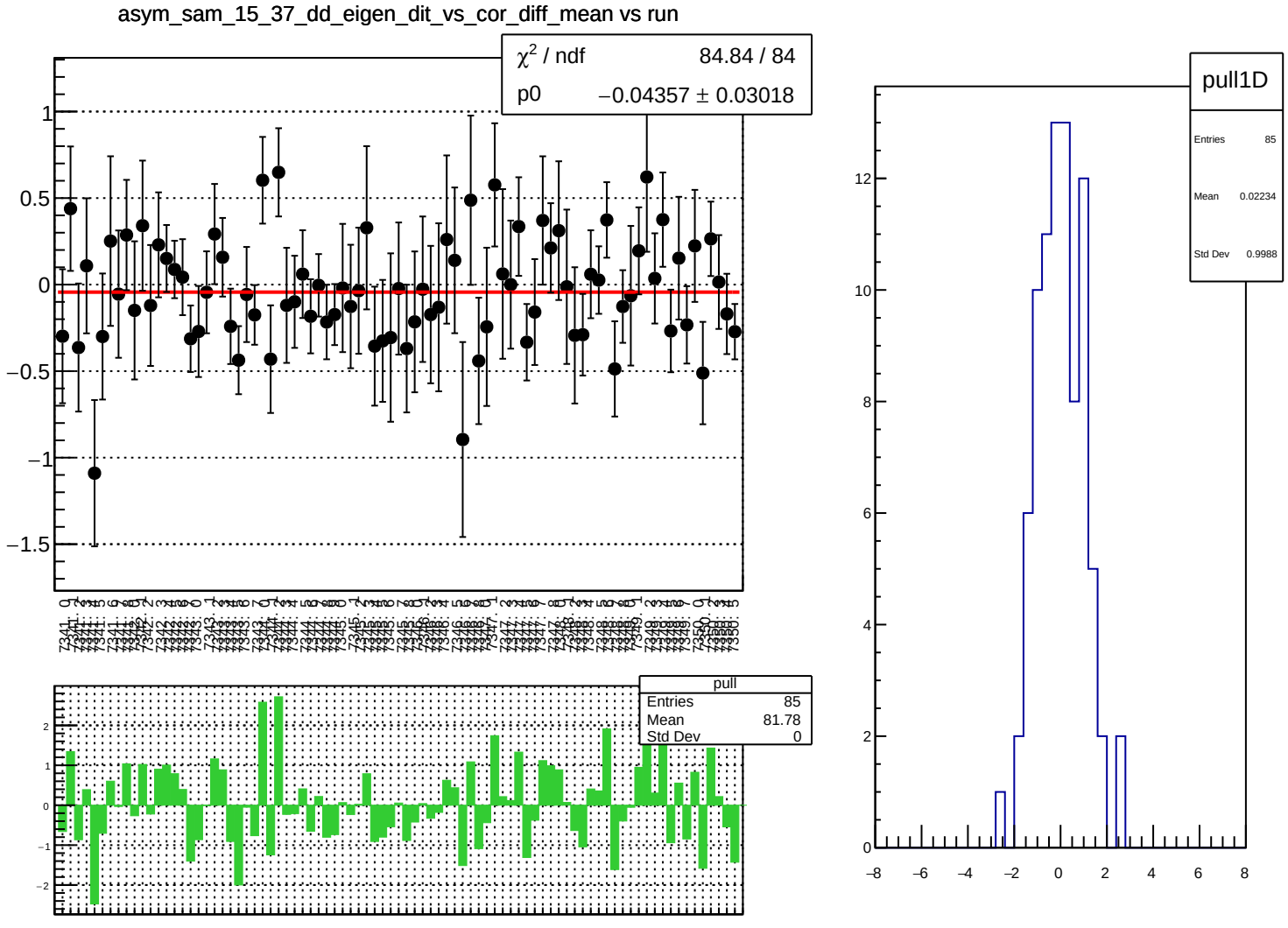

pull1D
Entries 85
Mean 0.02234
Std Dev 0.9988

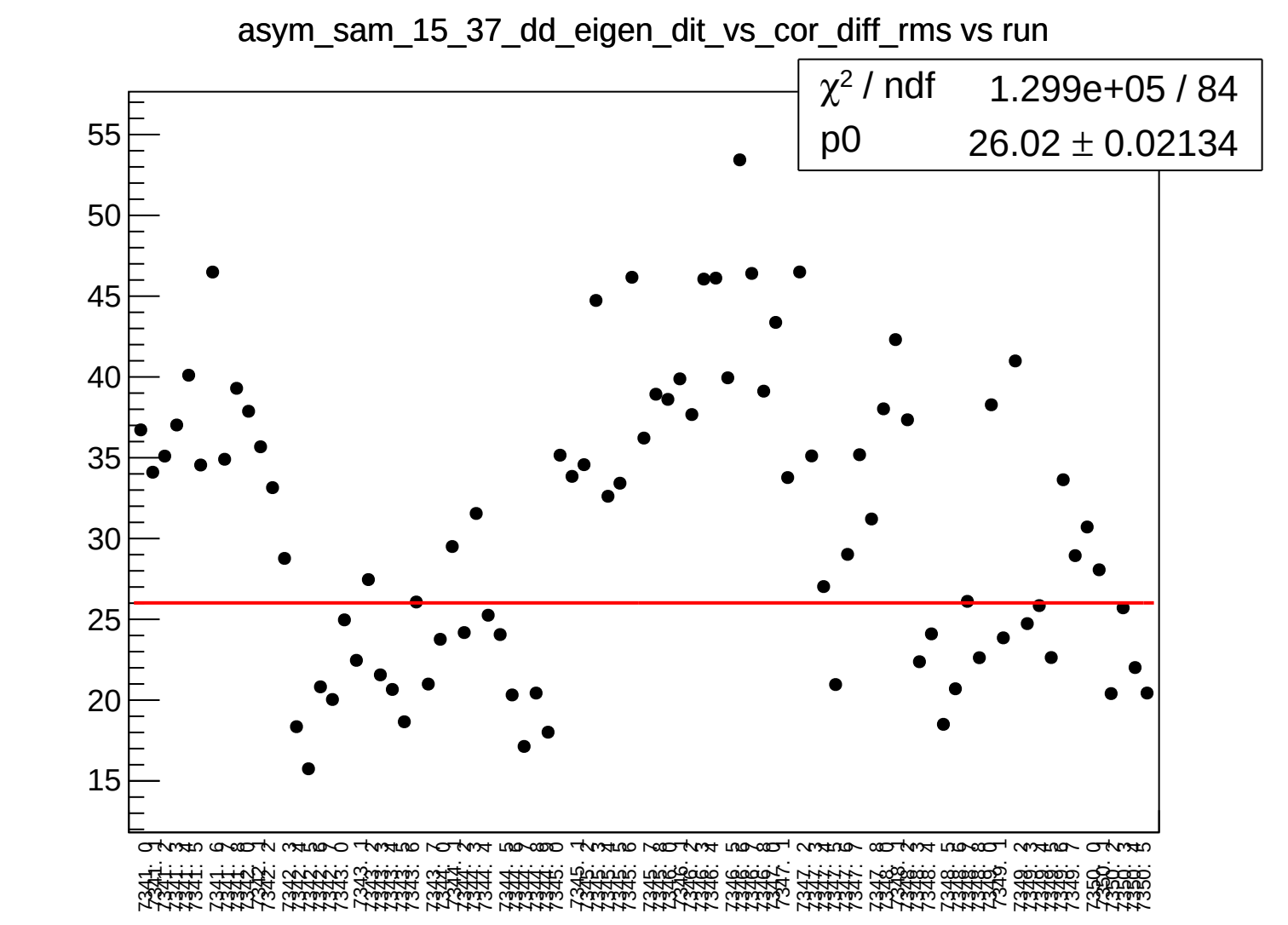

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.299e+05 / 84
p0 26.02 ± 0.02134
55
50
45
40
35
30
25
20
15

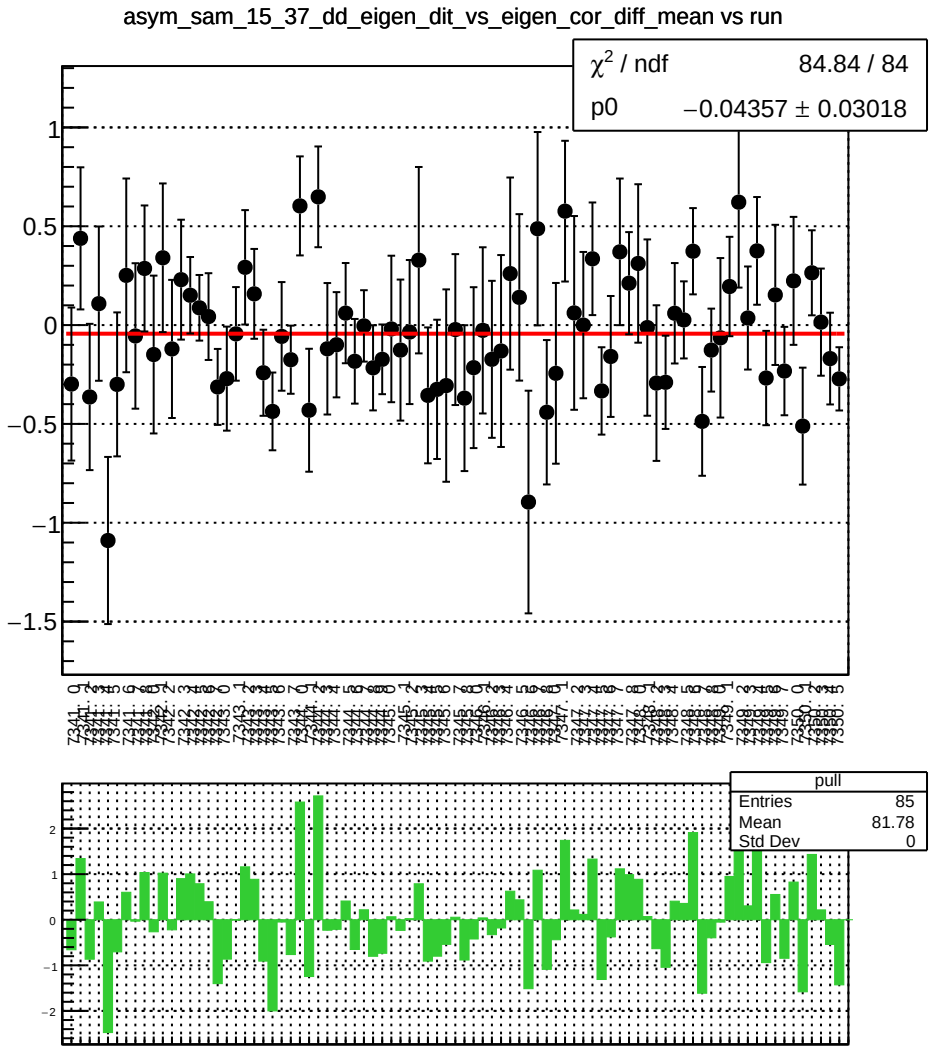

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.89 / 84
p0 −1.102e−06 ± 2.653e−06
pull
Entries 85
Mean −135
Std Dev 0

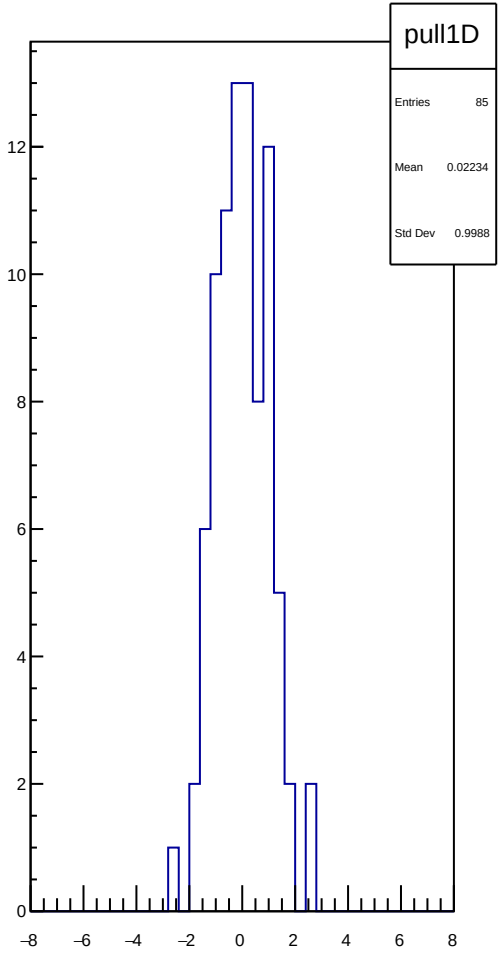

pull1D
Entries 85
Mean 0.01921
Std Dev 0.9066

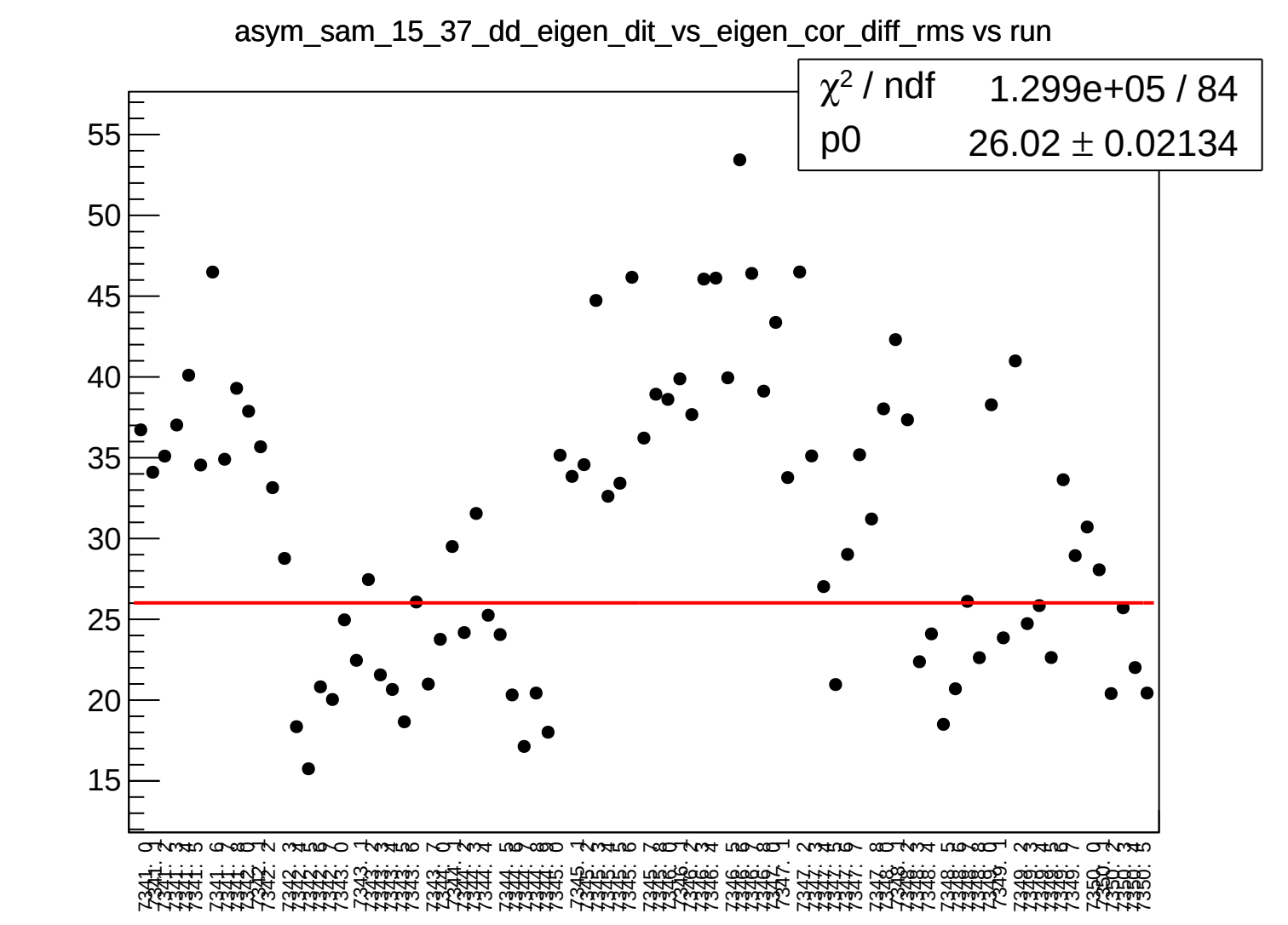

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7604 / 84
p0 0.00238 ± 1.876e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

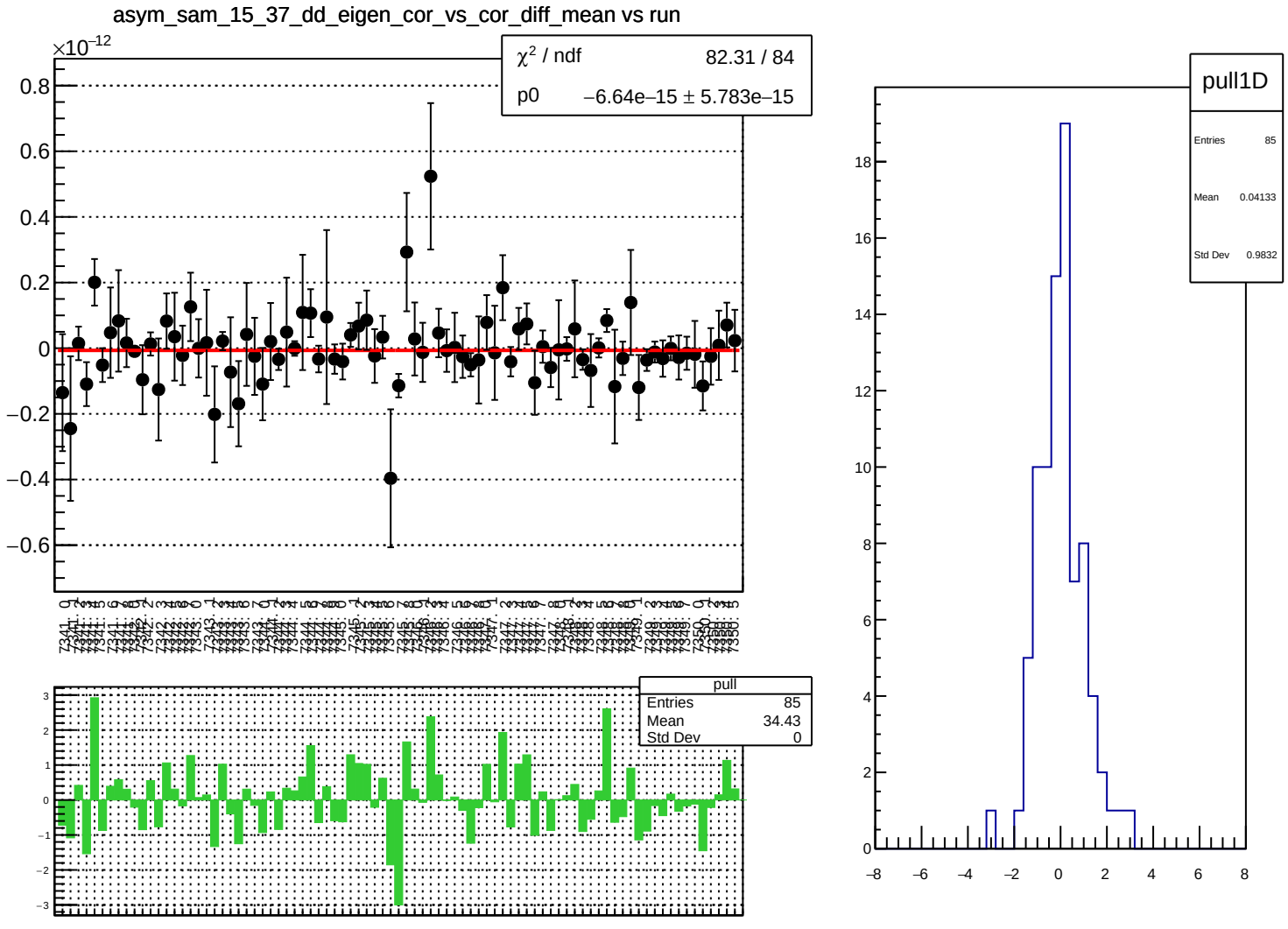

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.84 / 84
p0 −0.04357 ± 0.03018
pull
Entries 85
Mean 81.78
Std Dev 0
pull1D
Entries 85
Mean 0.02234
Std Dev 0.9988

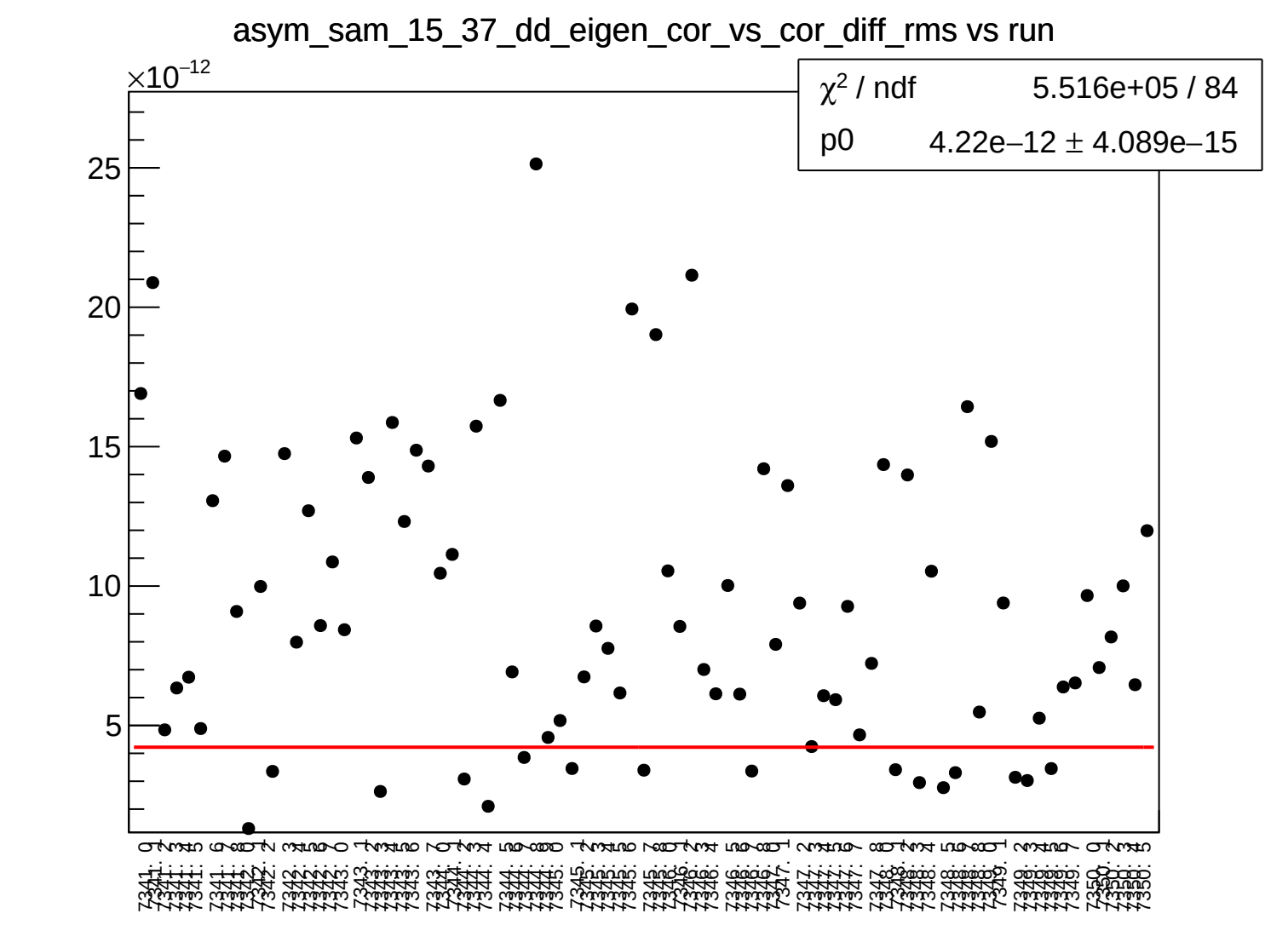

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.299e+05 / 84
p0 26.02 ± 0.02134
55
50
45
40
35
30
25
20
15

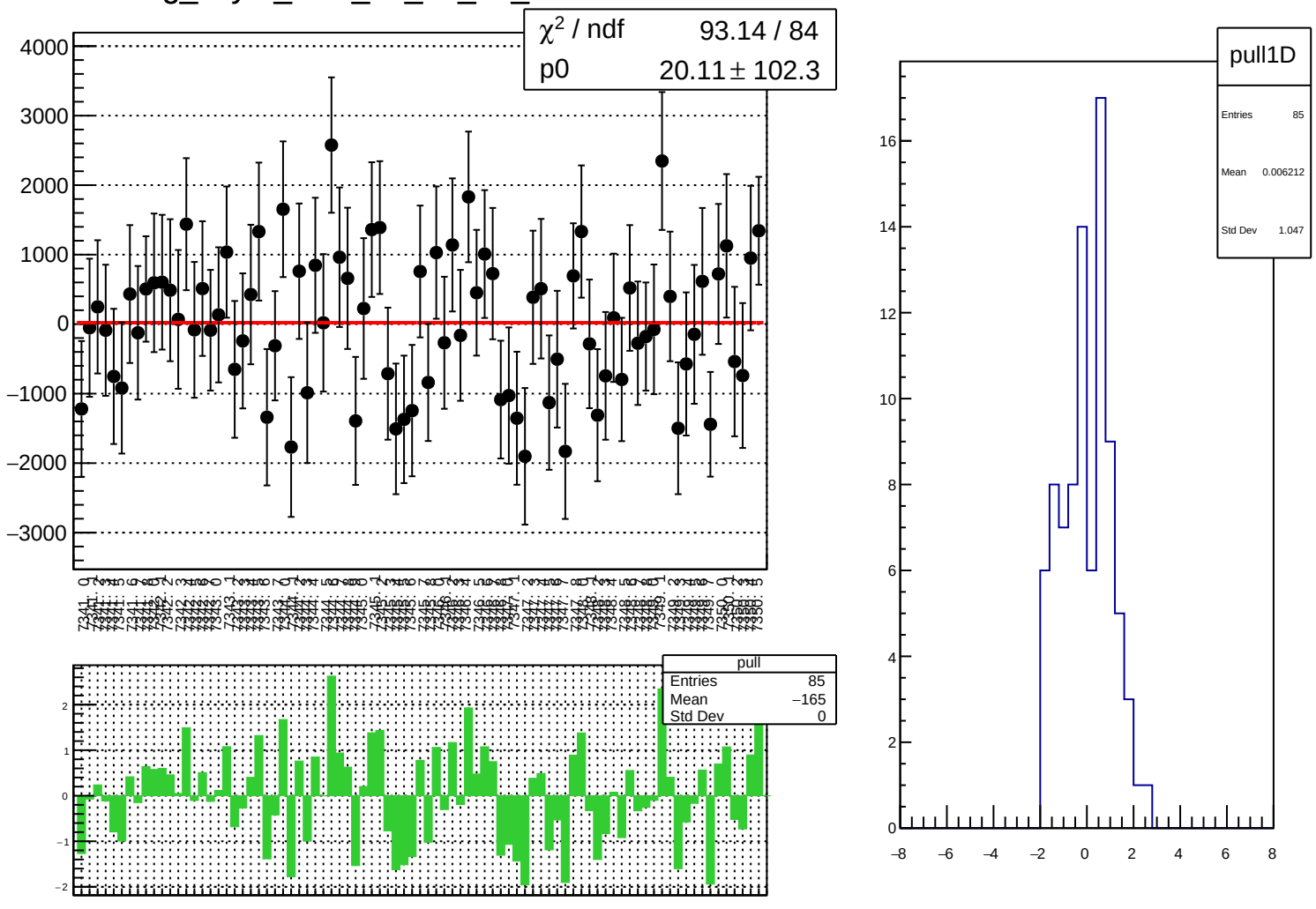

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.84 / 84
p0 −0.04357 ± 0.03018
pull
Entries 85
Mean 81.78
Std Dev 0

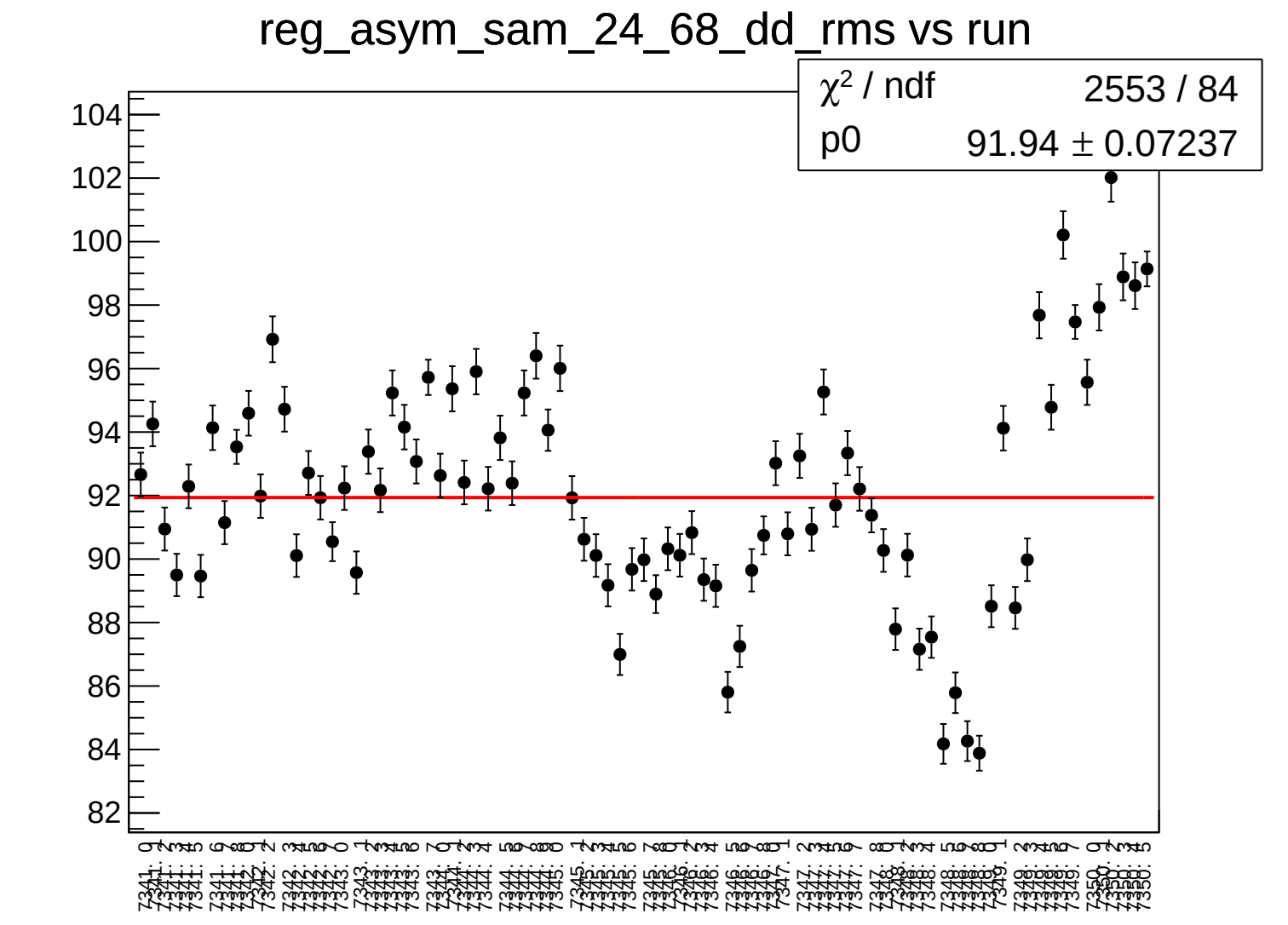

pull1D
Entries 85
Mean 0.02234
Std Dev 0.9988

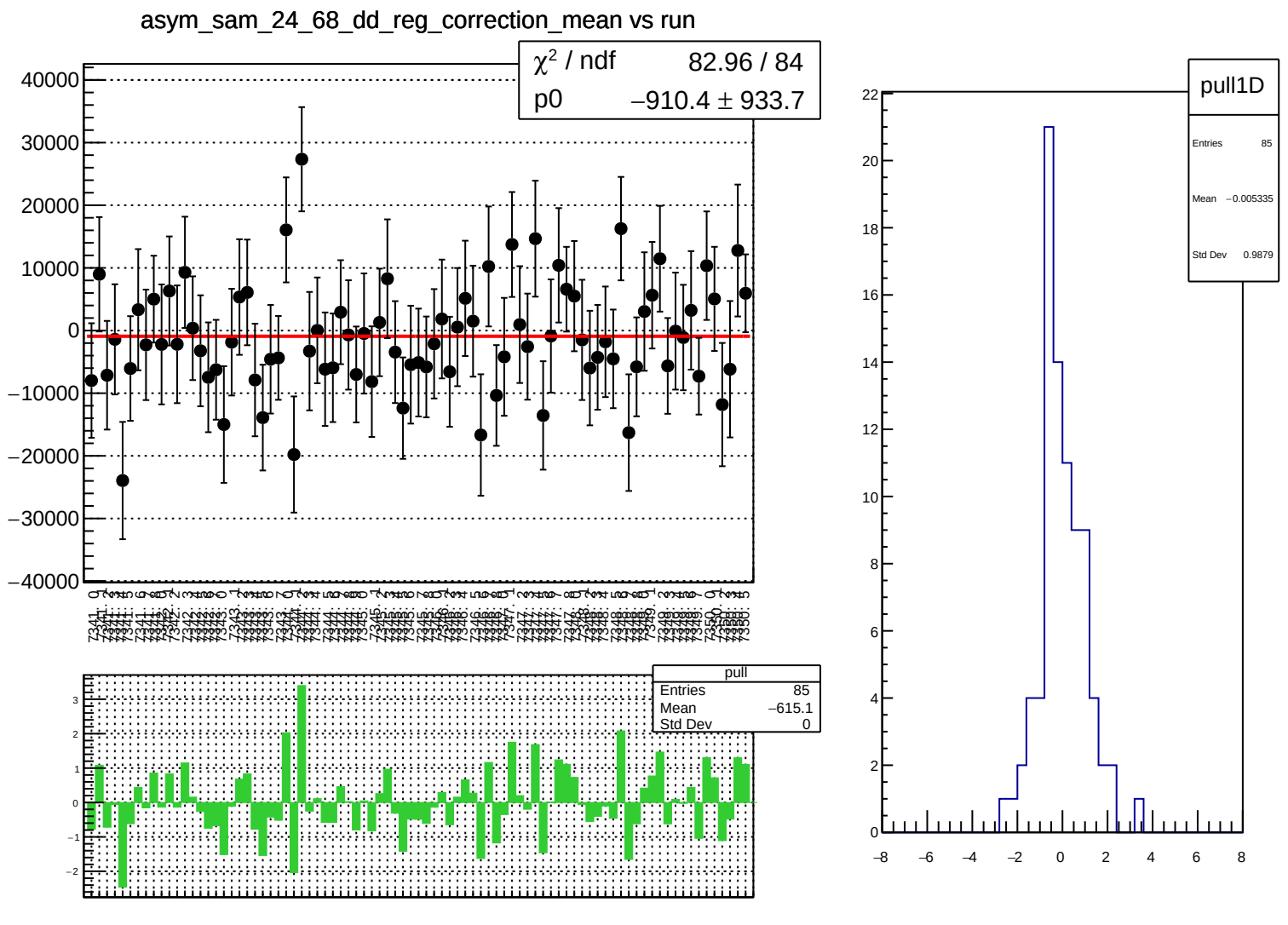

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.299e+05 / 84
p0 26.02 ± 0.02134
55
50
45
40
35
30
25
20
15

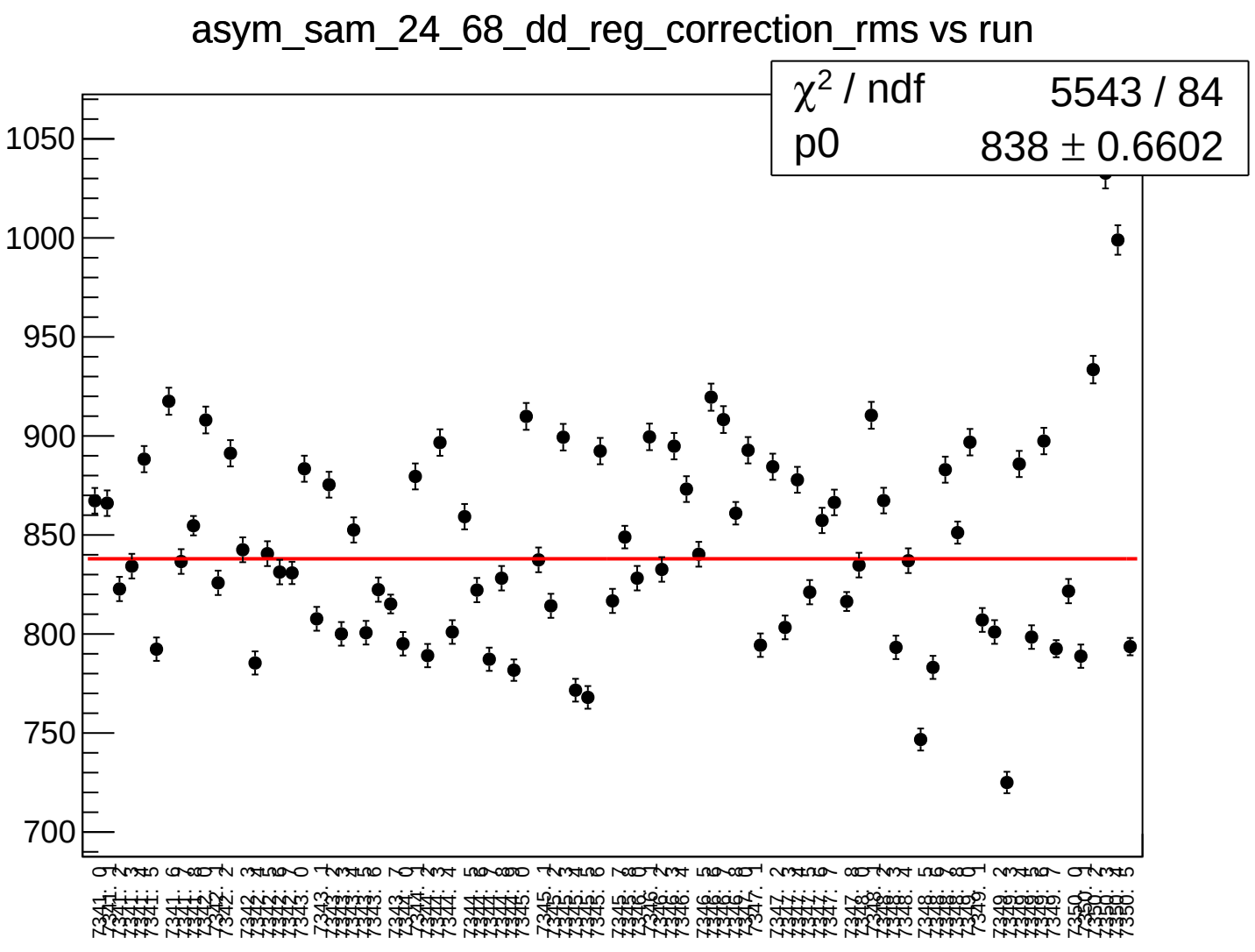

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.31 / 84
p0 −6.64e−15 ± 5.783e−15
pull
Entries 85
Mean 34.43
Std Dev 0
pull1D
Entries 85
Mean 0.04133
Std Dev 0.9832

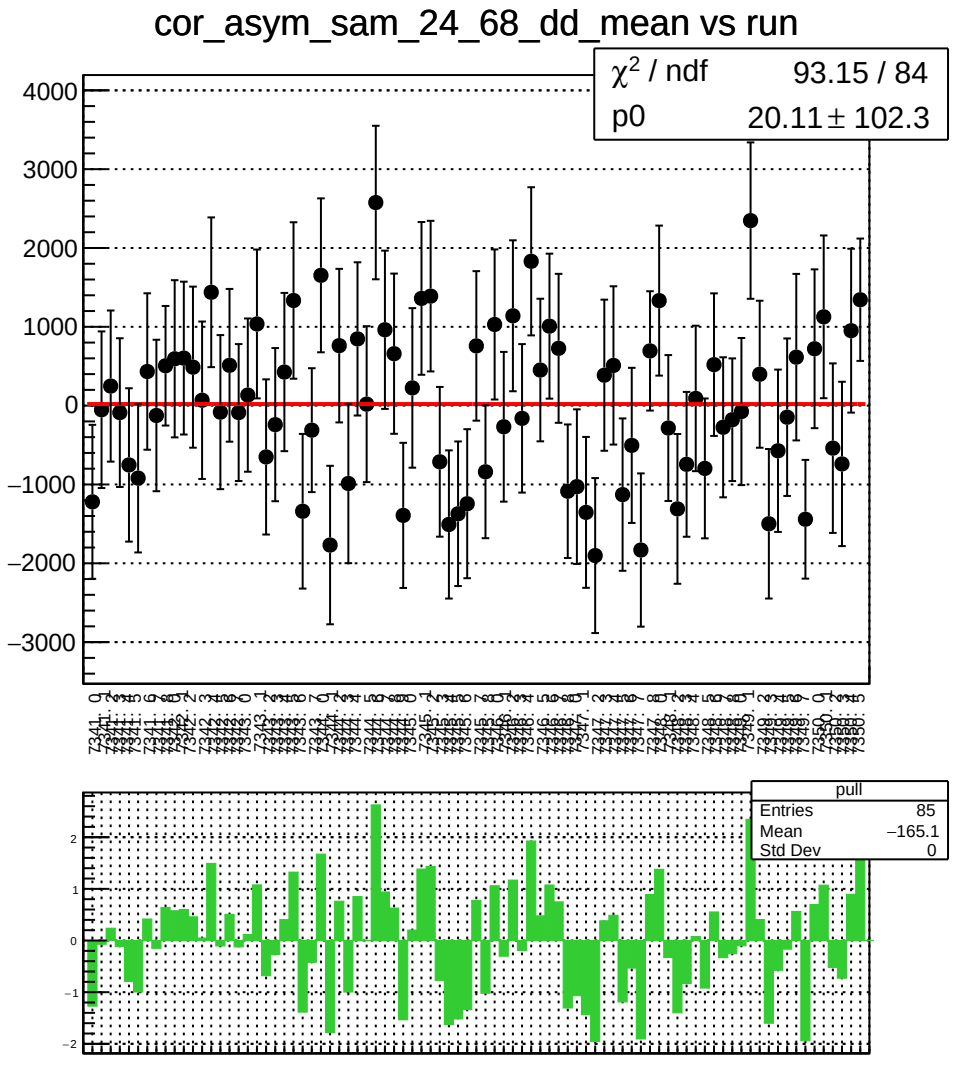

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.516e+05 / 84
p0 4.22e−12 ± 4.089e−15
25
20
15
10
5

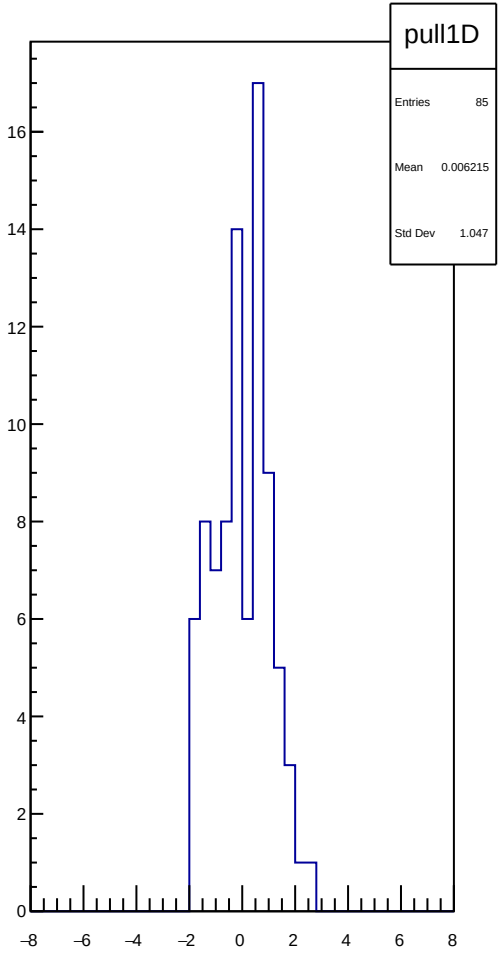

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.14 / 84
p0 20.11 ± 102.3
pull
Entries 85
Mean −165
Std Dev 0
pull1D
Entries 85
Mean 0.006212
Std Dev 1.047

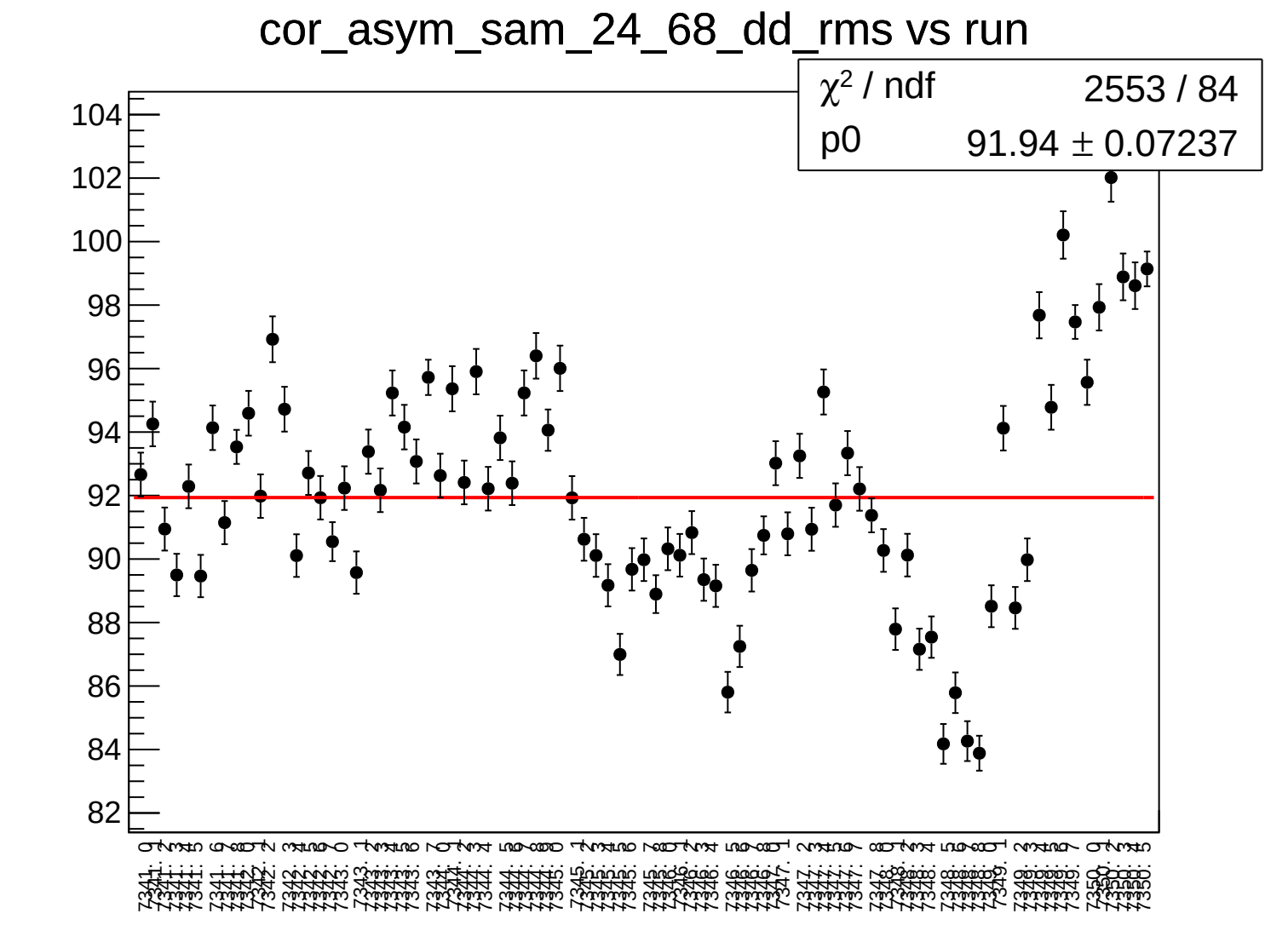

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 2553 / 84
p0 91.94 ± 0.07237
104
102
100
98
96
94
92
90
88
86
84
82

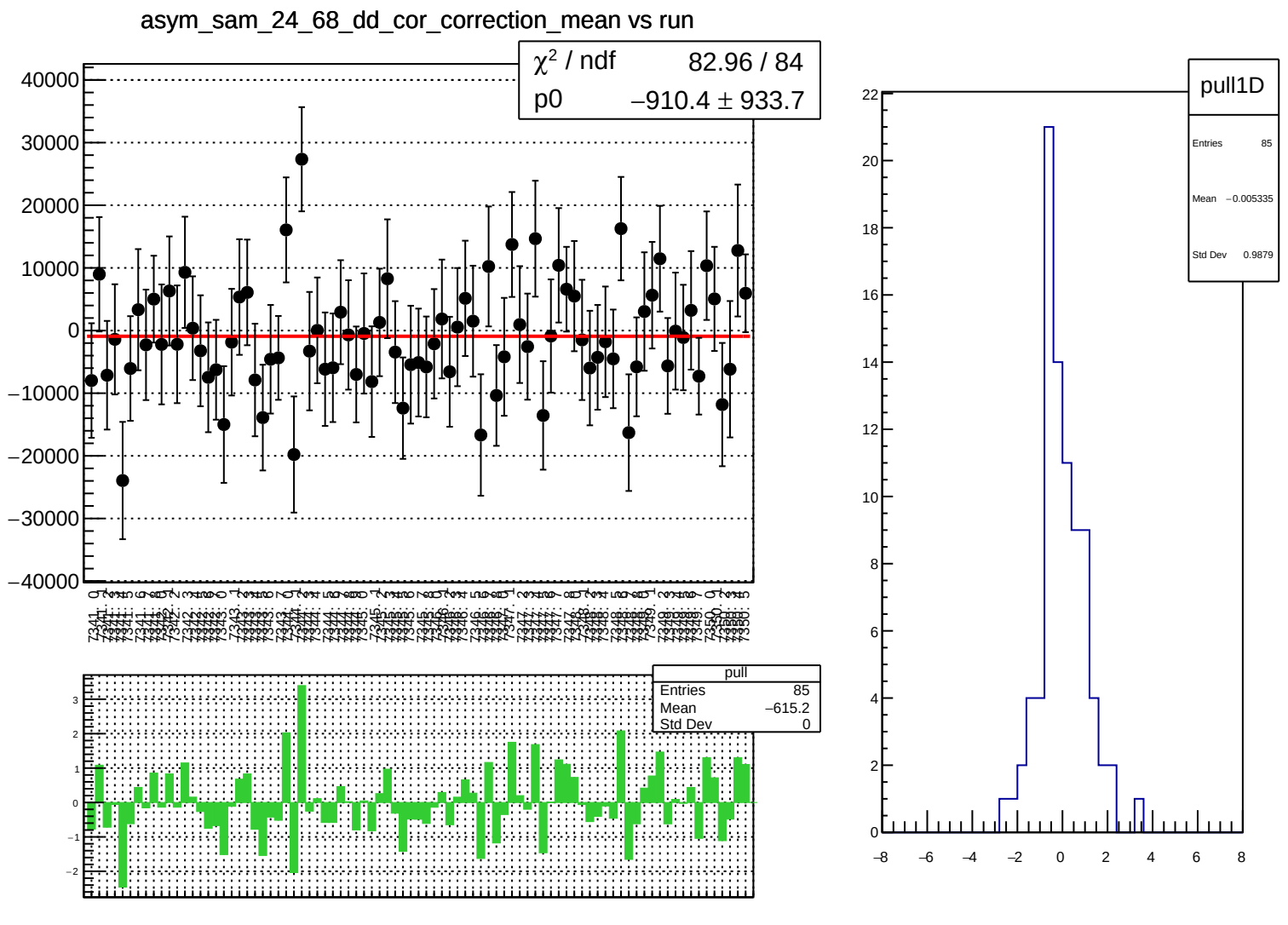

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 82.96 / 84
p0 −910.4 ± 933.7
pull
Entries 85
Mean −615.1
Std Dev 0
pull1D
Entries 85
Mean −0.005335
Std Dev 0.9879

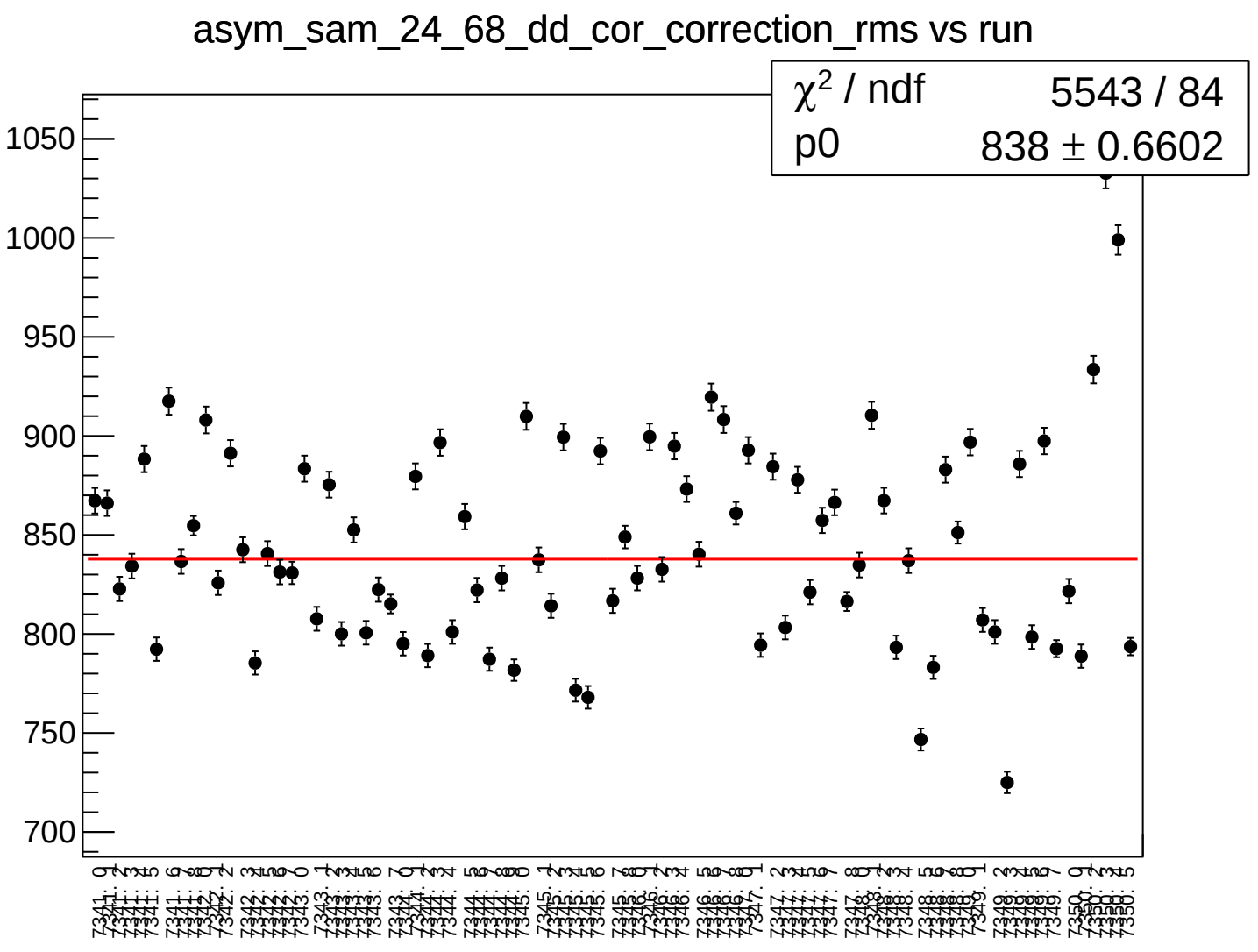

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 5543 / 84
p0 838 ± 0.6602
1050
1000
950
900
850
800
750
700

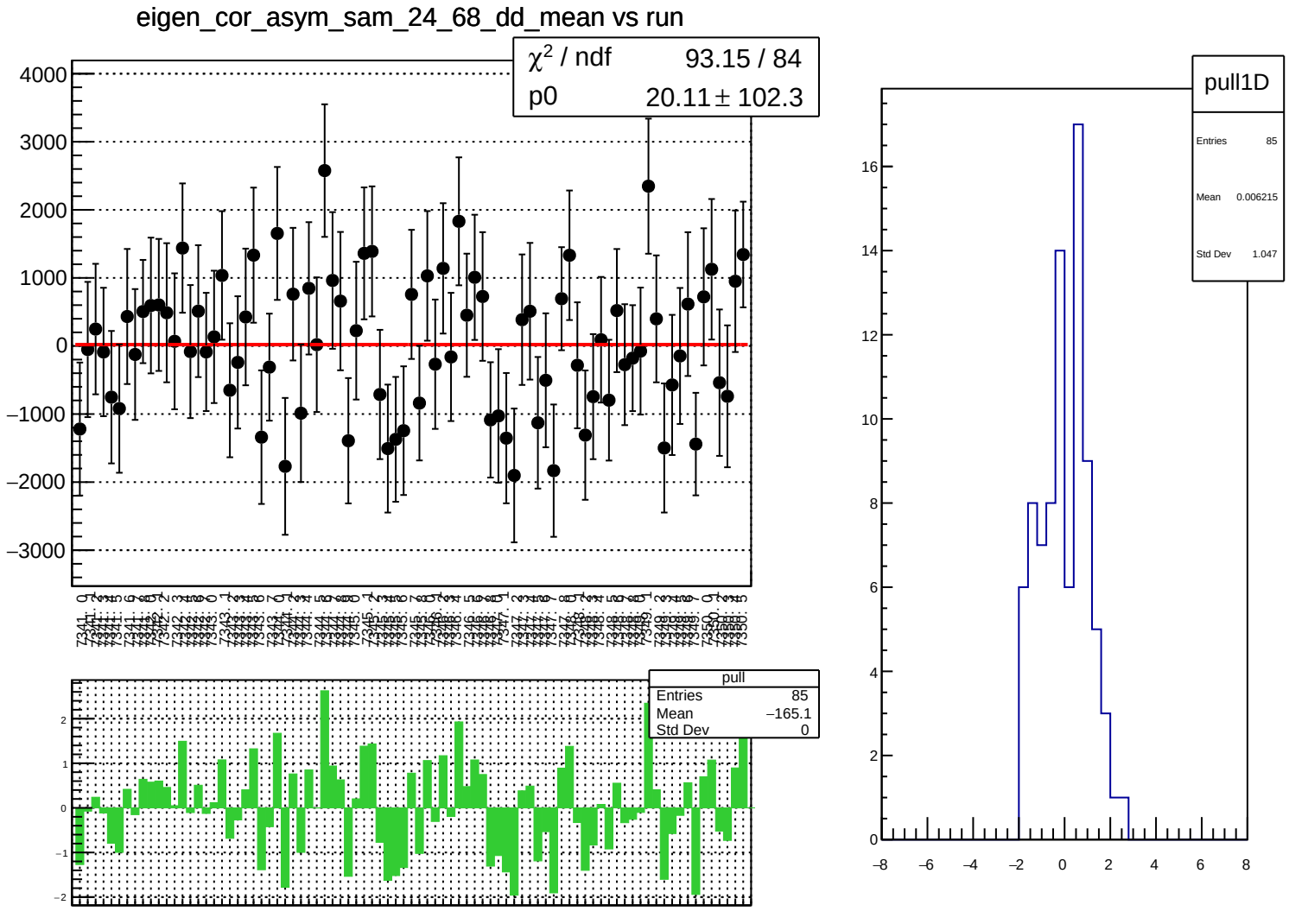

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.15 / 84
p0 20.11 ± 102.3
pull
Entries 85
Mean −165.1
Std Dev 0

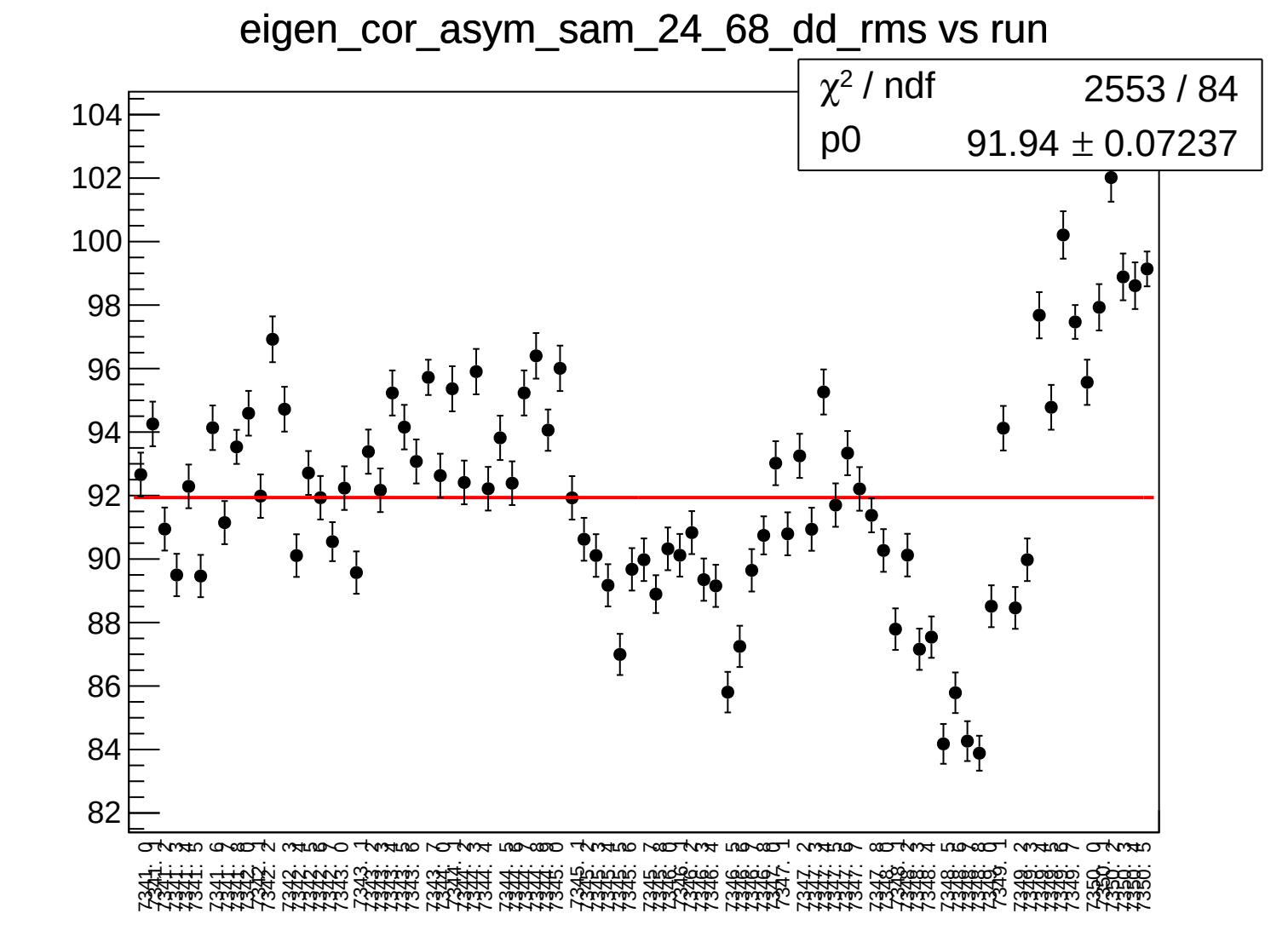

pull1D
Entries 85
Mean 0.006215
Std Dev 1.047

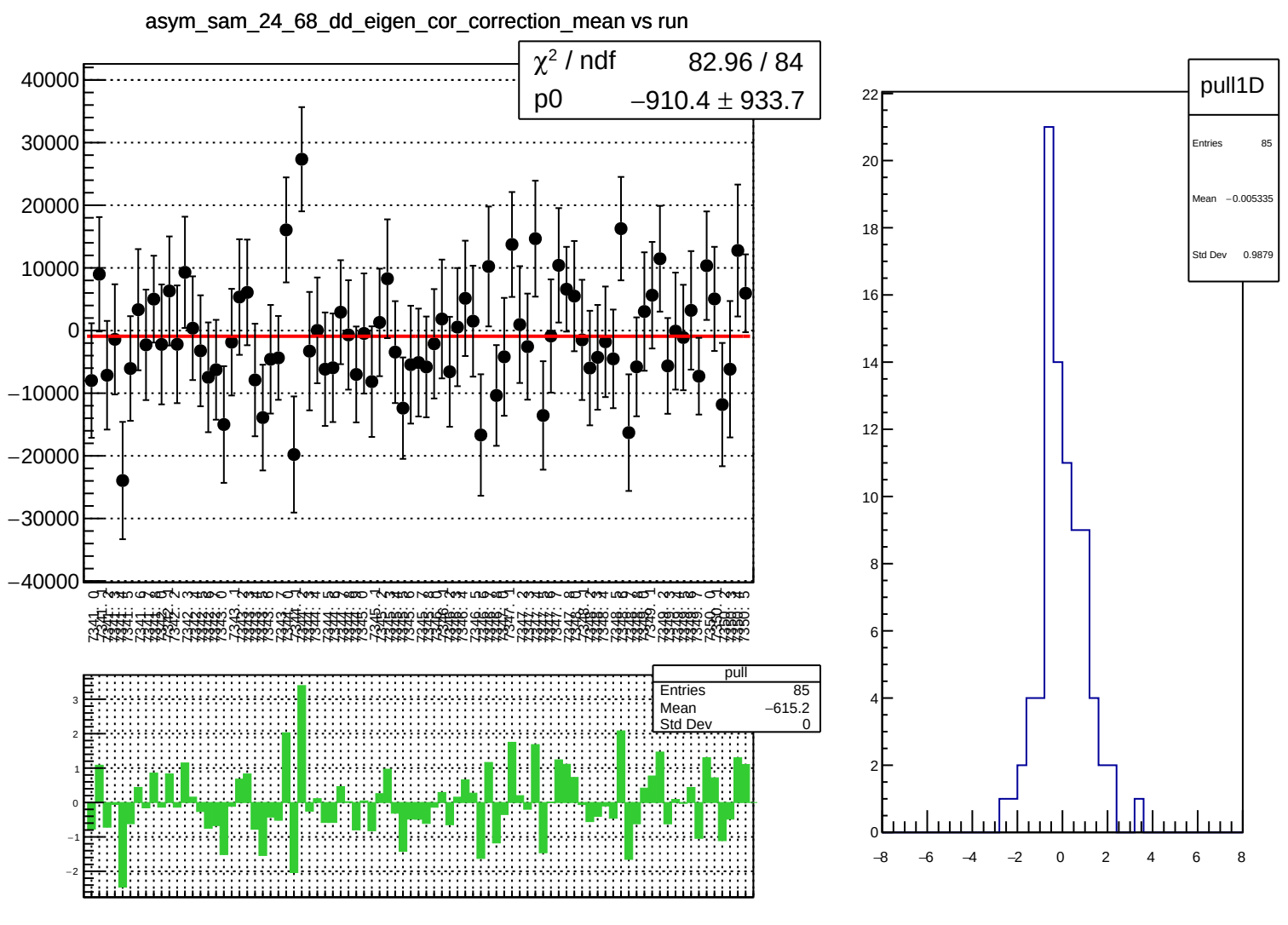

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 2553 / 84
p0 91.94 ± 0.07237
104
102
100
98
96
94
92
90
88
86
84
82

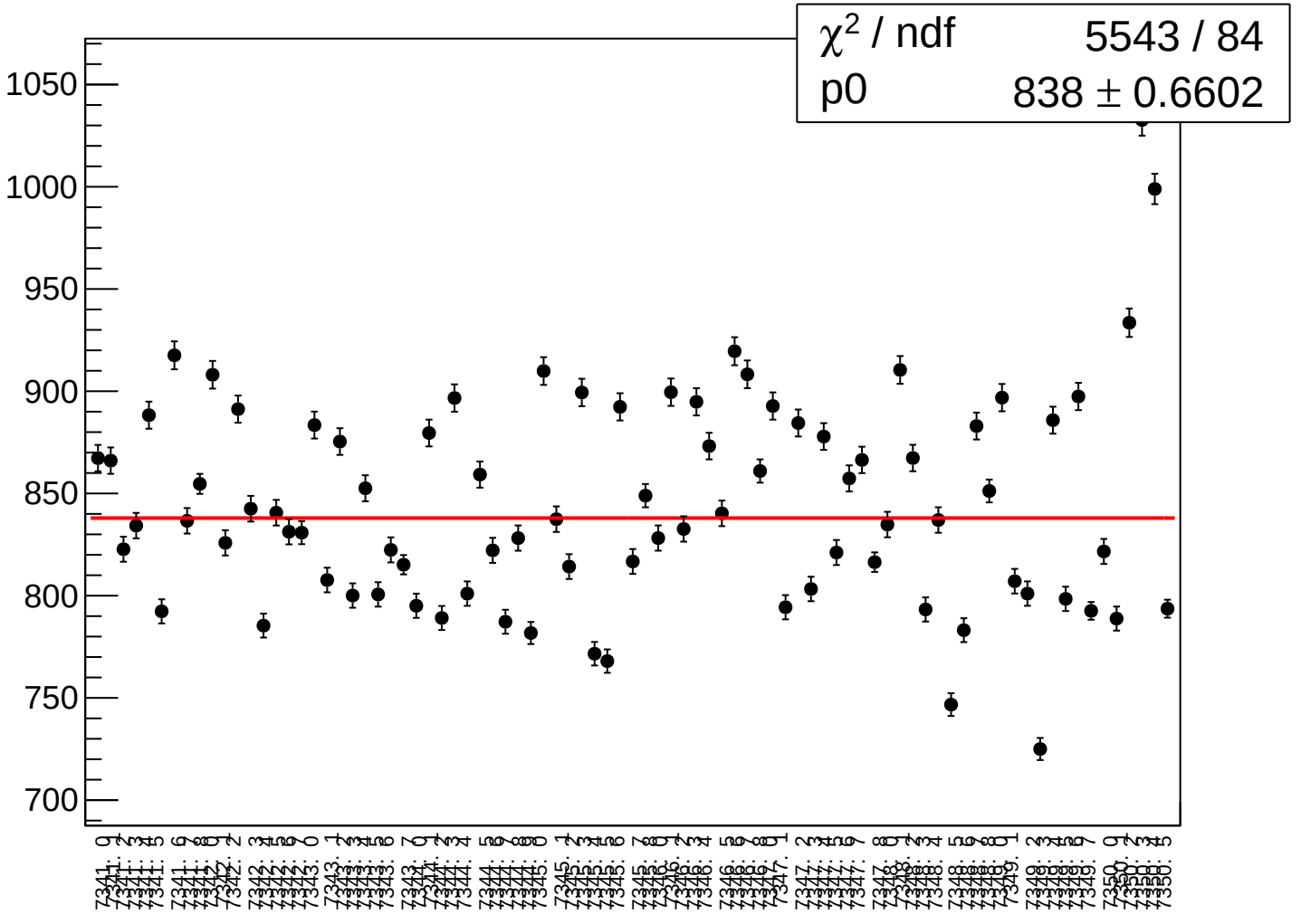

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 82.96 / 84
p0 −910.4 ± 933.7
pull
Entries 85
Mean −615.2
Std Dev 0
pull1D
Entries 85
Mean −0.005335
Std Dev 0.9879

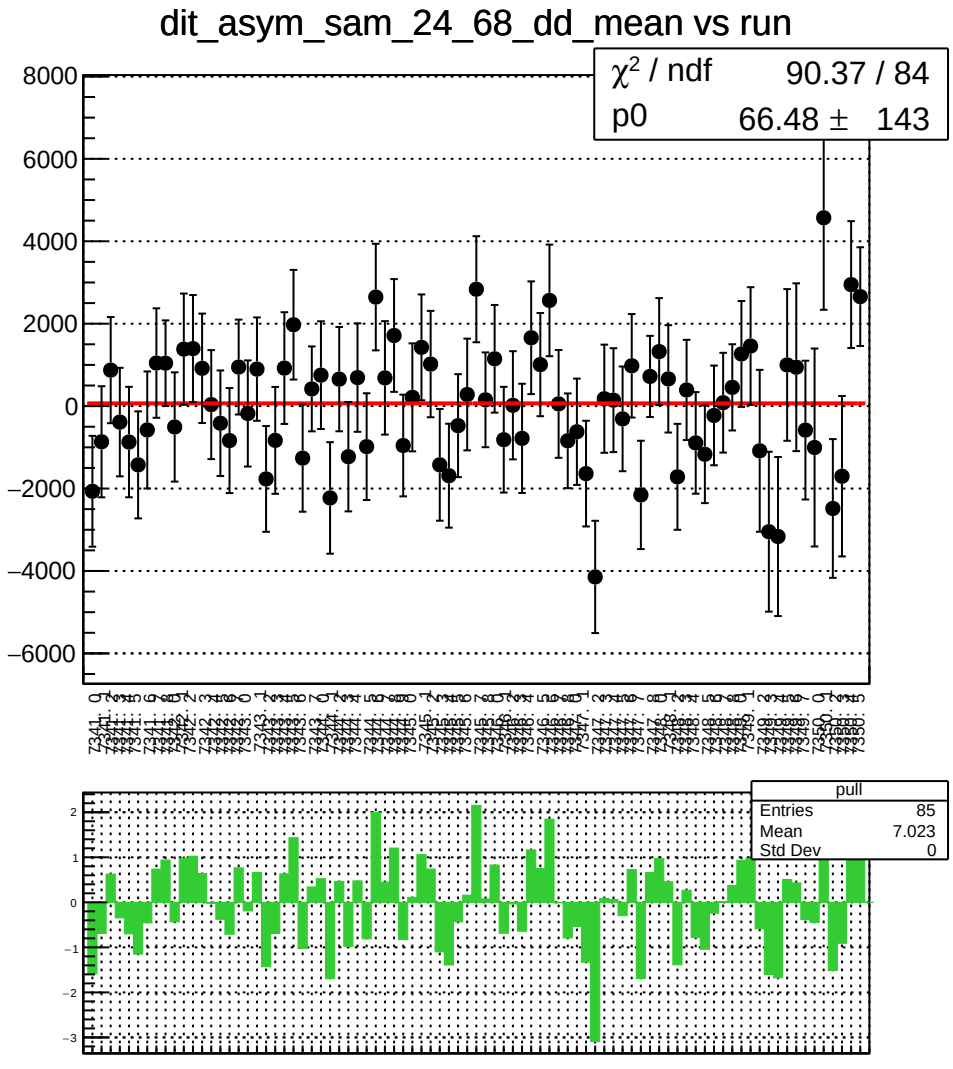

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 5543 / 84
p0 838 ± 0.6602
1050
1000
950
900
850
800
750
700

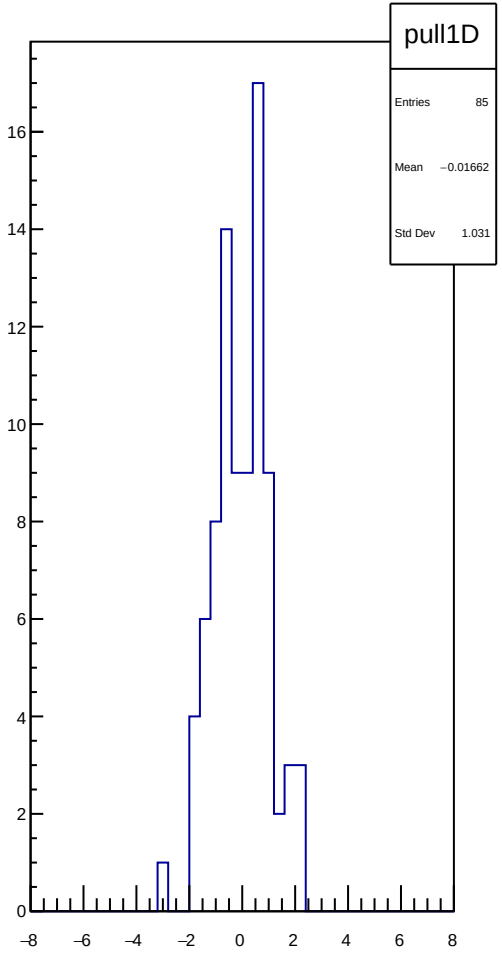

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.15 / 84
p0 20.11 ± 102.3
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −165.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.006215
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

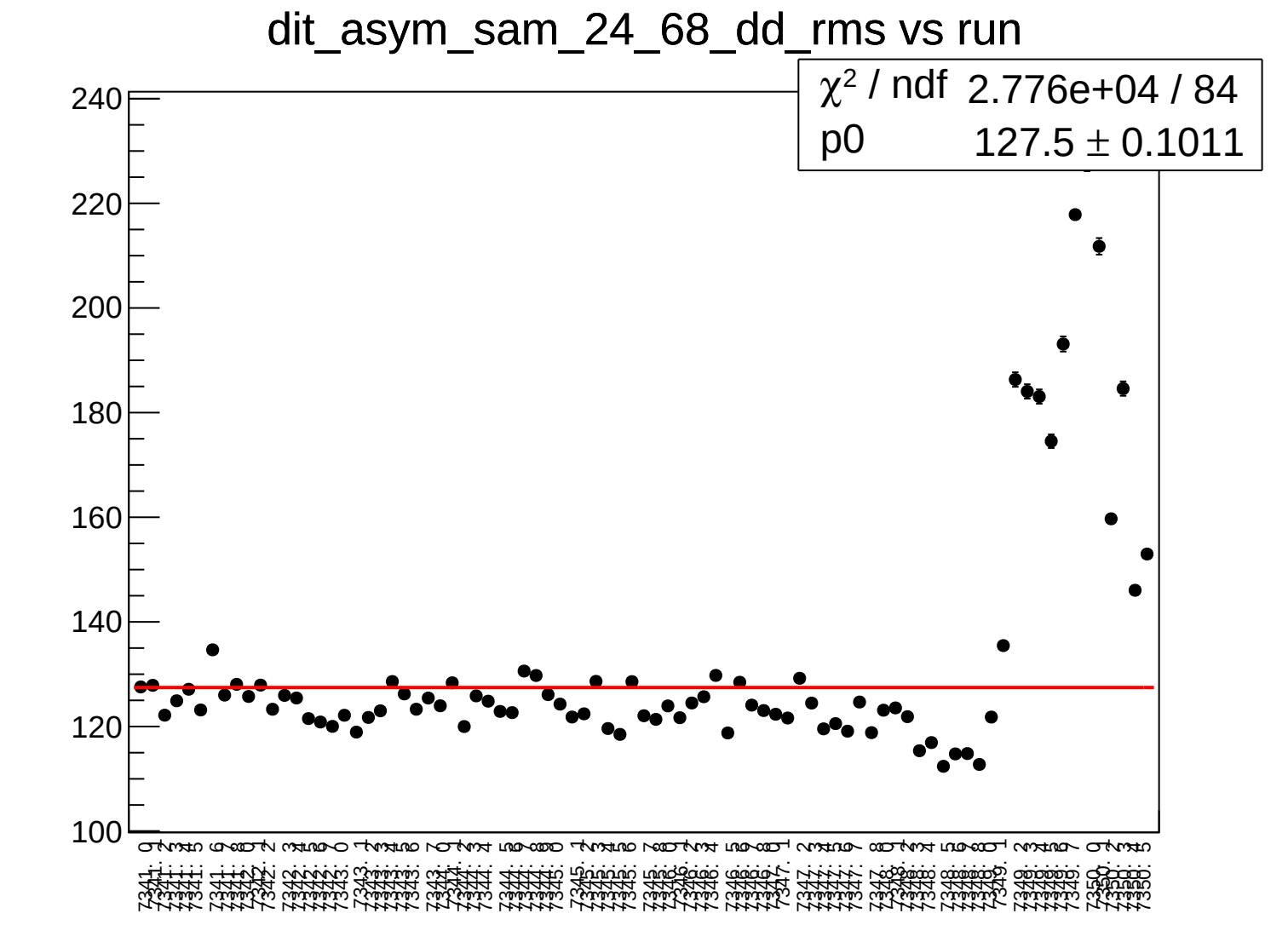

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 2553 / 84
p0 91.94 ± 0.07237
104
102
100
98
96
94
92
90
88
86
84
82

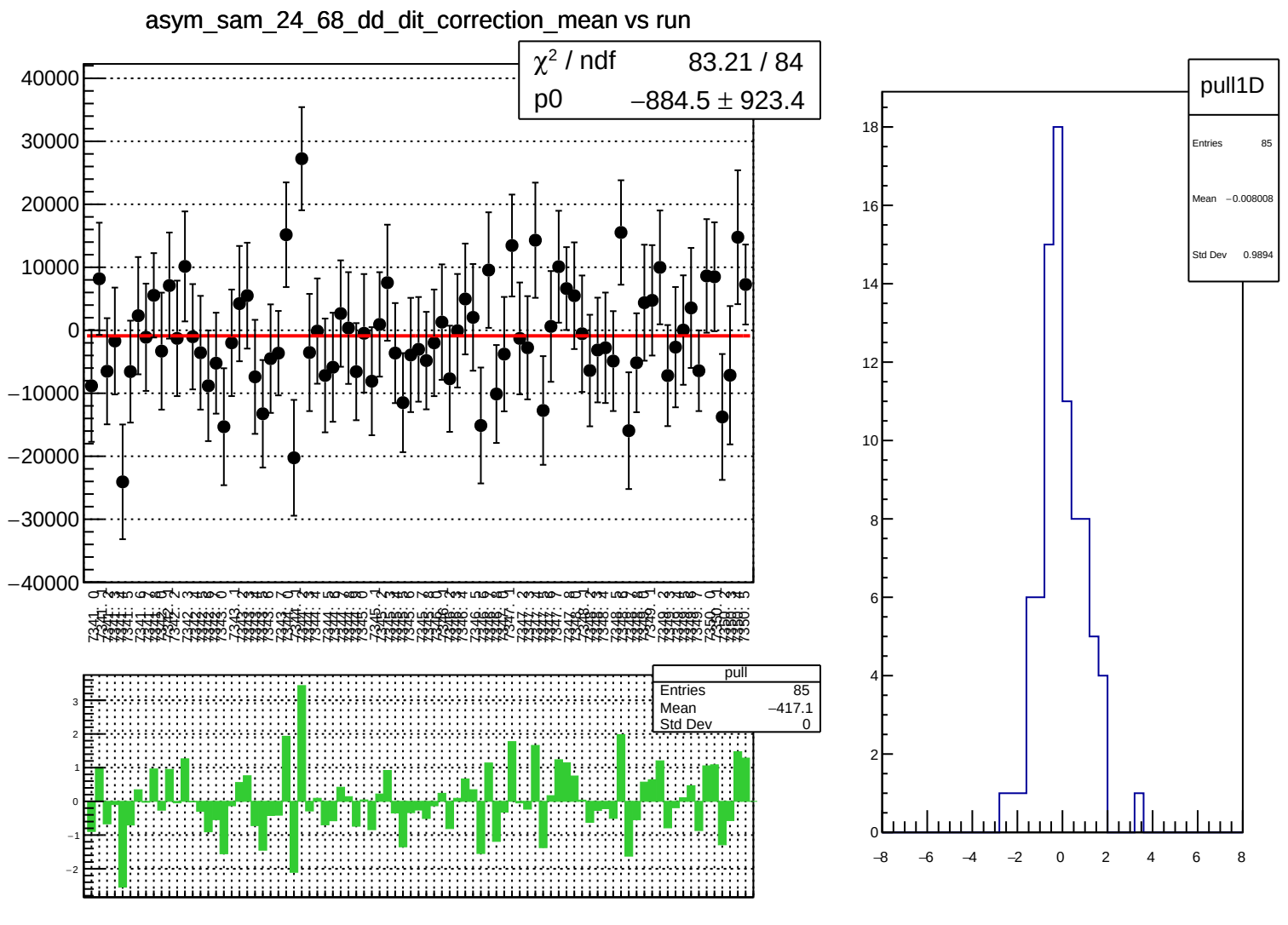

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.96 / 84
p0 −910.4 ± 933.7
pull
Entries 85
Mean −615.2
Std Dev 0
pull1D
Entries 85
Mean −0.005335
Std Dev 0.9879

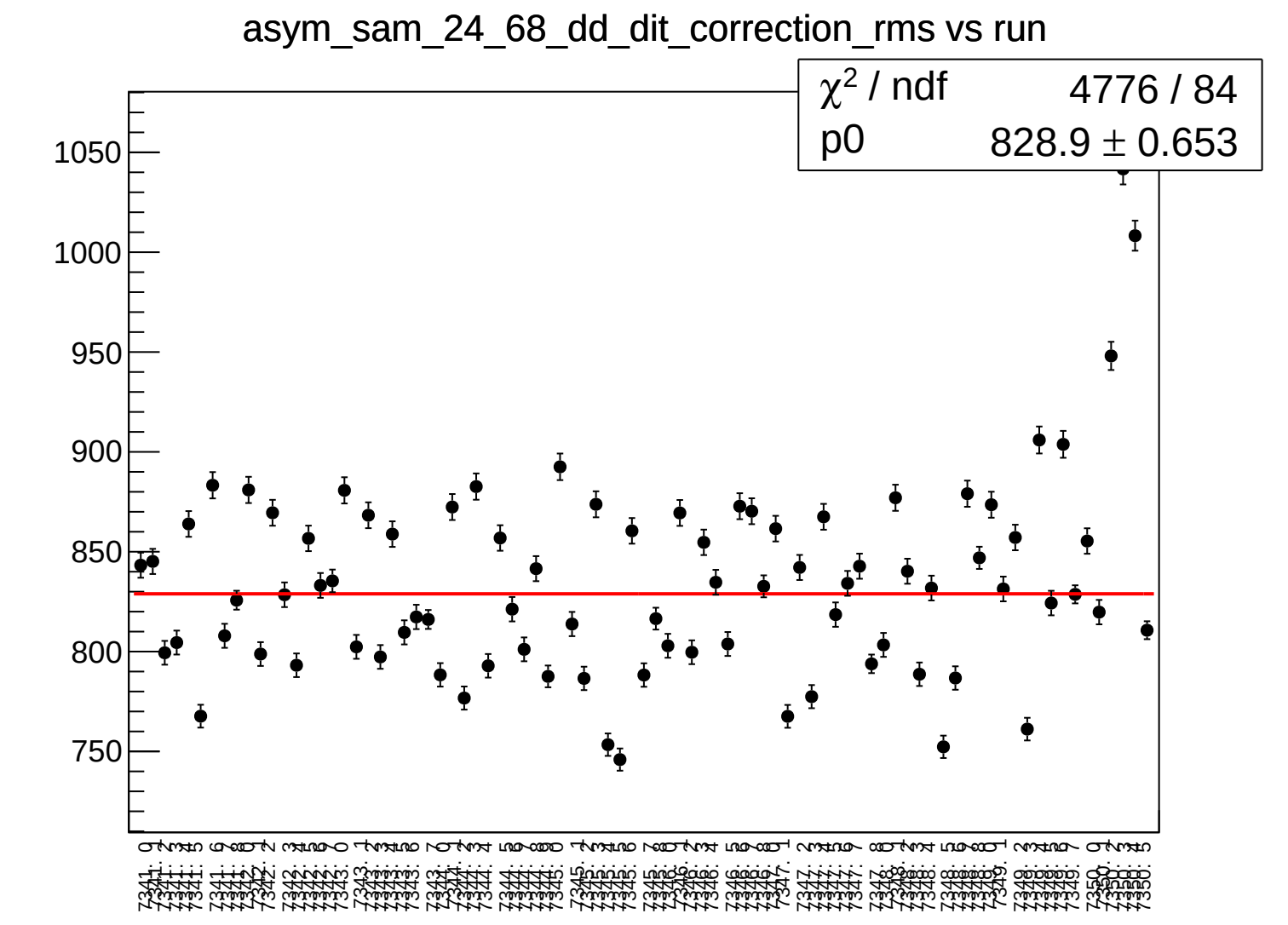

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 5543 / 84
p0 838 ± 0.6602
1050
1000
950
900
850
800
750
700

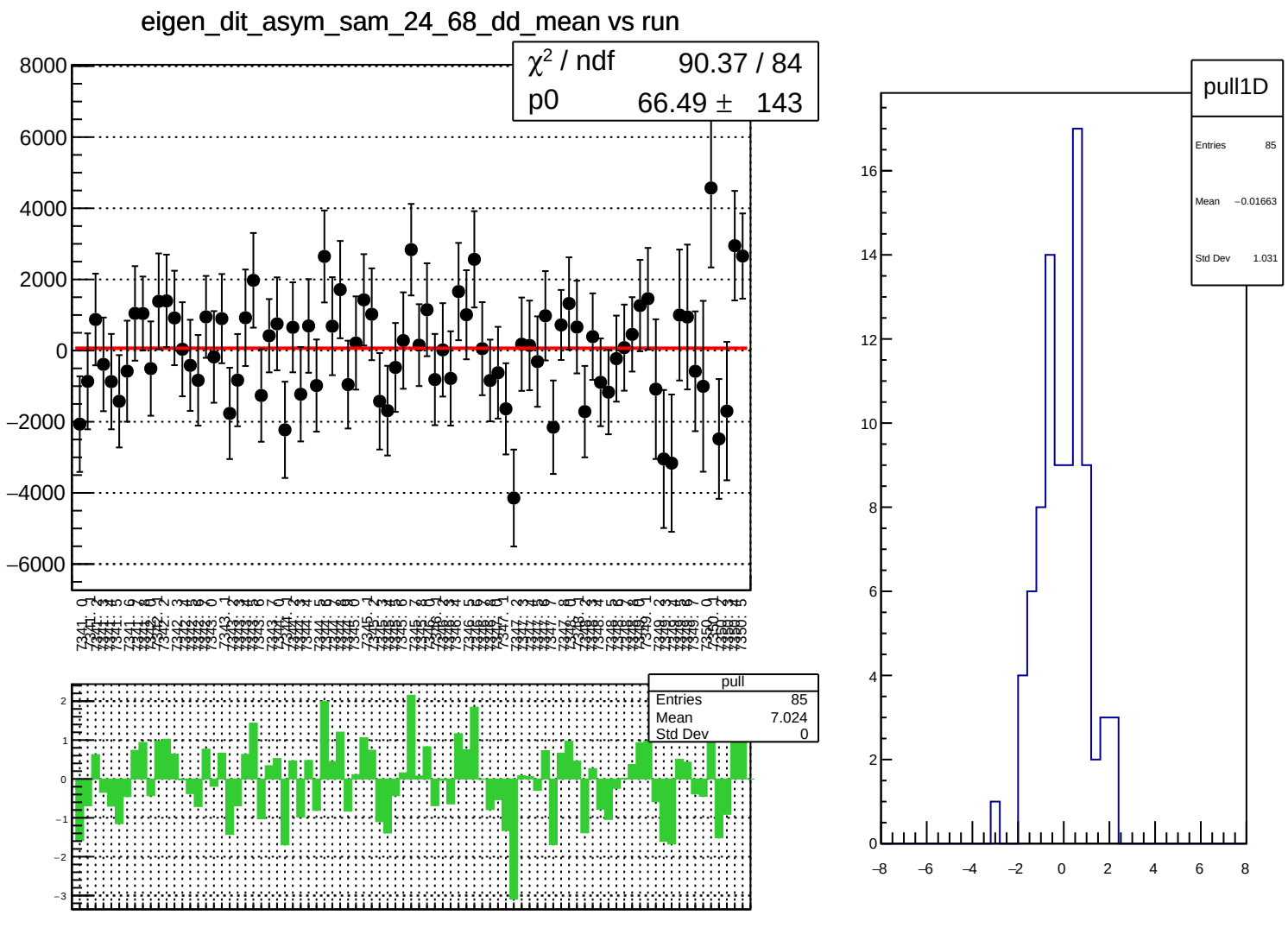

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 90.37 / 84
p0 66.48 ± 143
pull
Entries 85
Mean 7.023
Std Dev 0

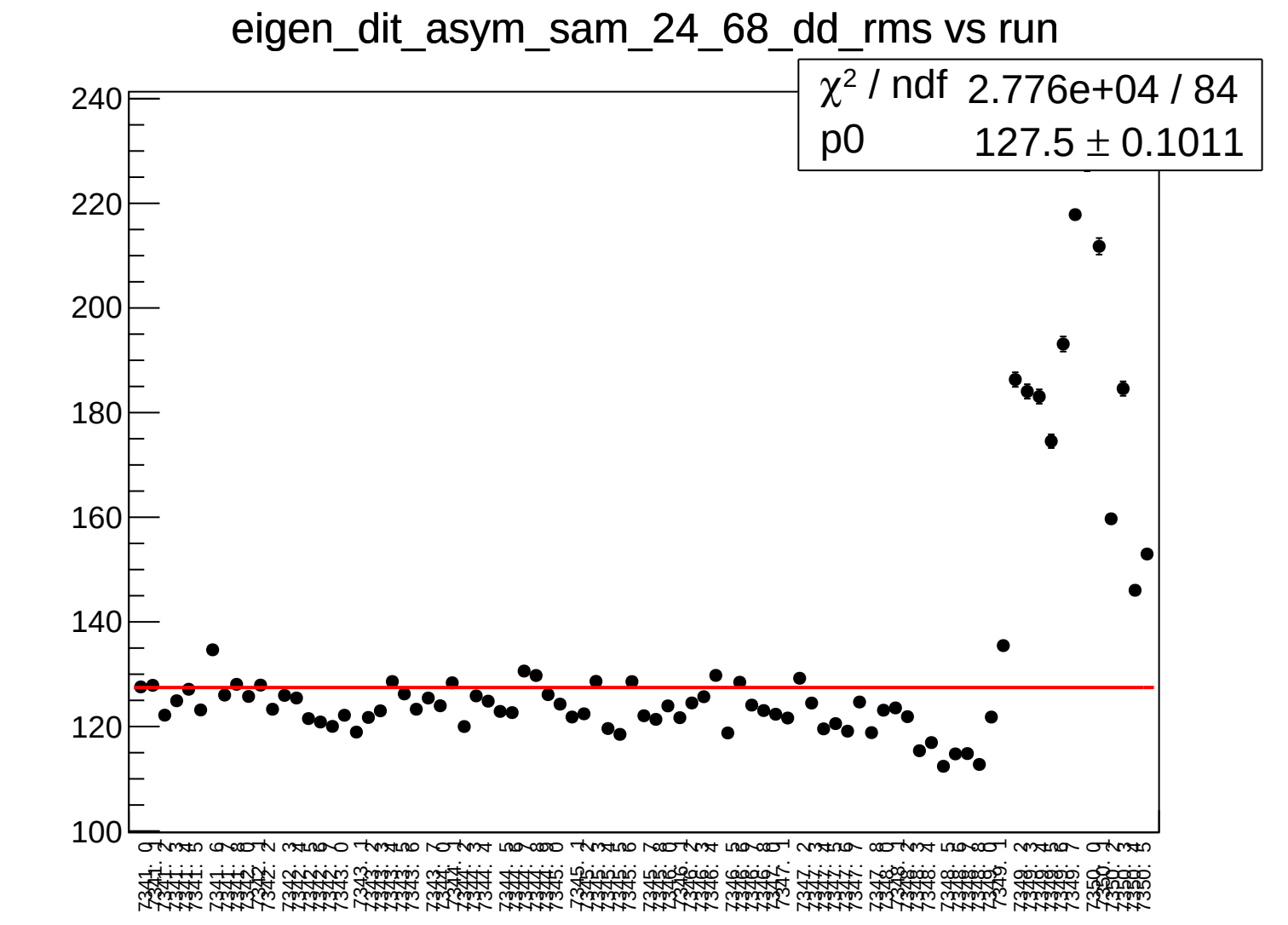

pull1D
Entries 85
Mean −0.01662
Std Dev 1.031

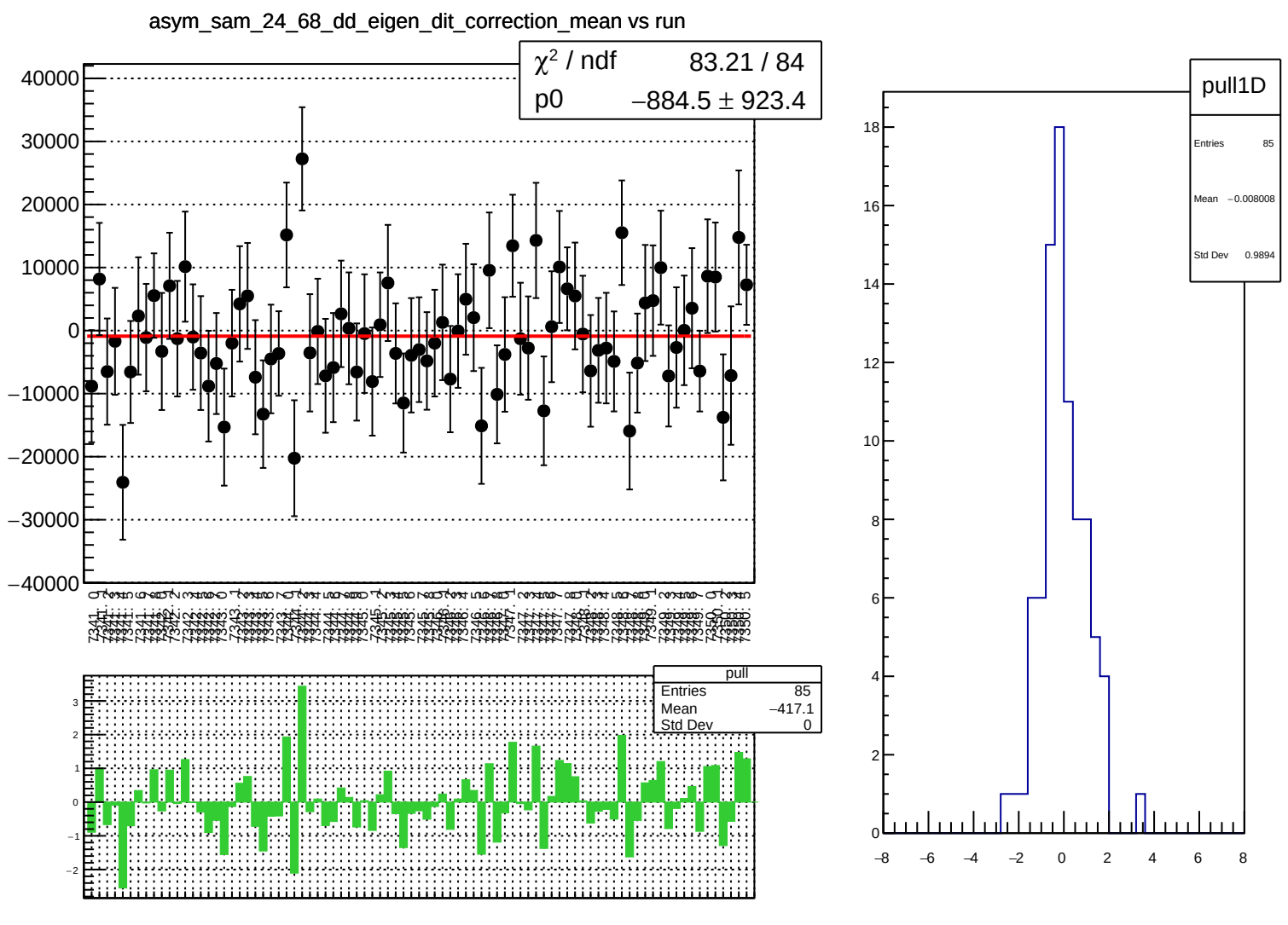

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.776e+04 / 84
p0 127.5 ± 0.1011
240
220
200
180
160
140
120
100

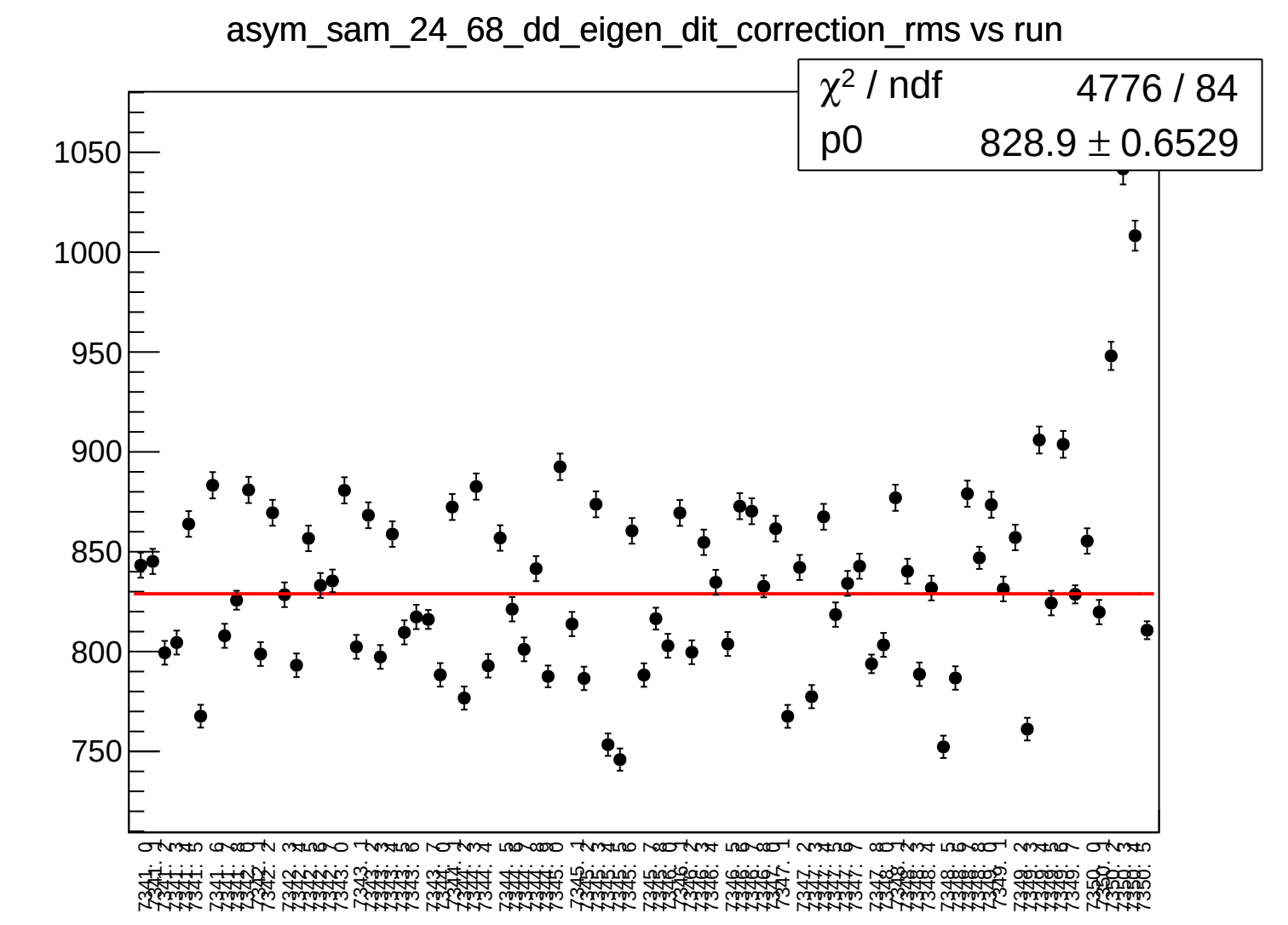

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 83.21 / 84
p0 −884.5 ± 923.4
pull
Entries 85
Mean −417.1
Std Dev 0
pull1D
Entries 85
Mean −0.008008
Std Dev 0.9894

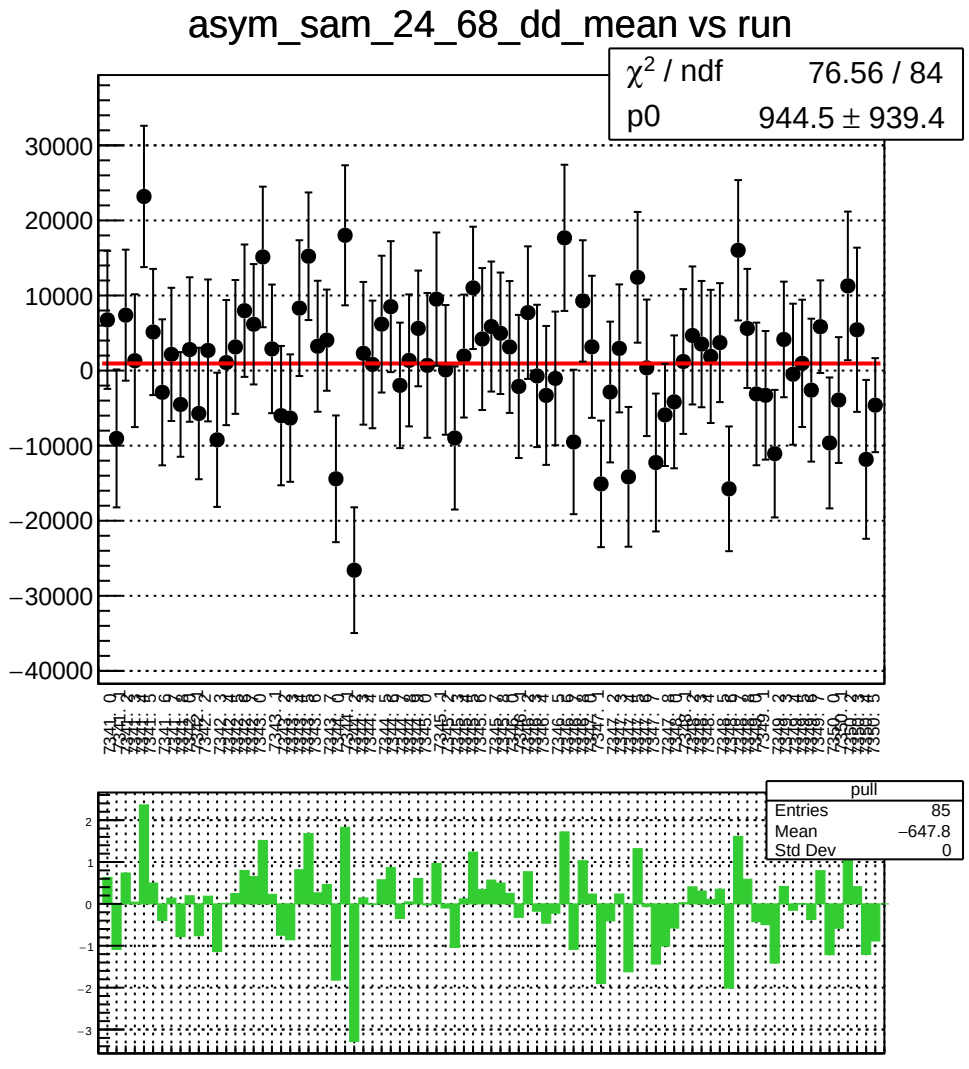

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 4776 / 84
p0 828.9 ± 0.653
1050
1000
950
900
850
800
750

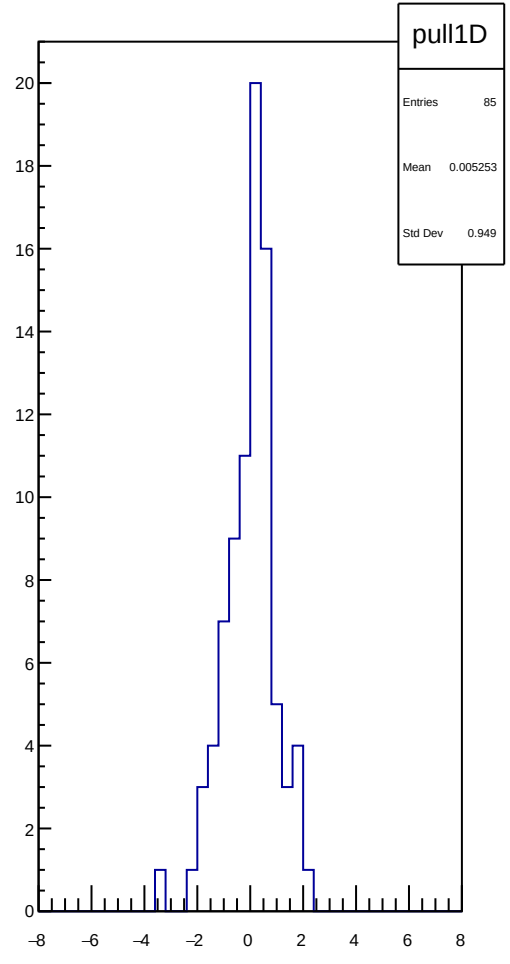

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 90.37 / 84
p0 66.49 ± 143
pull
Entries 85
Mean 7.024
Std Dev 0
pull1D
Entries 85
Mean −0.01663
Std Dev 1.031

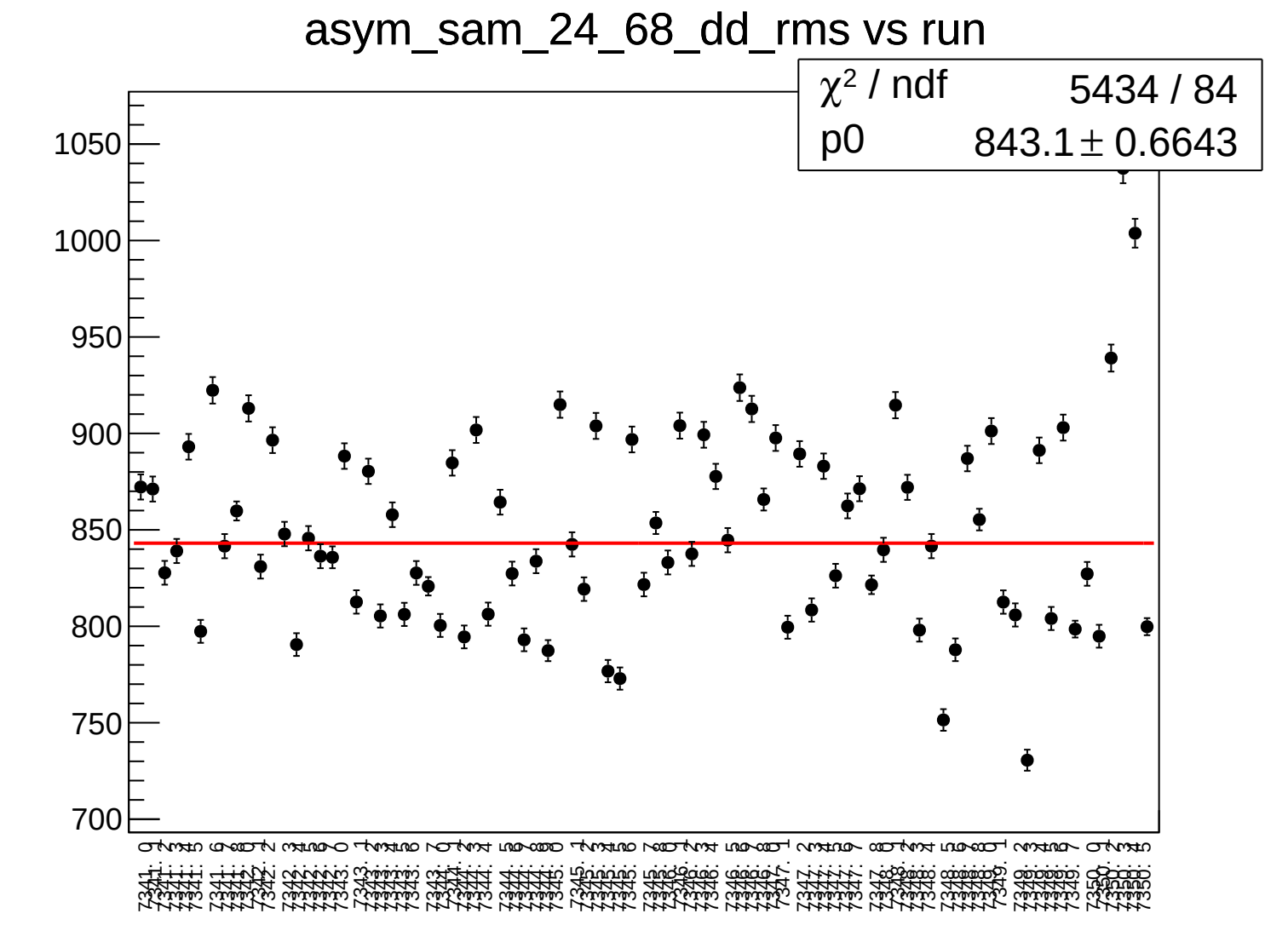

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.776e+04 / 84
p0 127.5 ± 0.1011
240
220
200
180
160
140
120
100

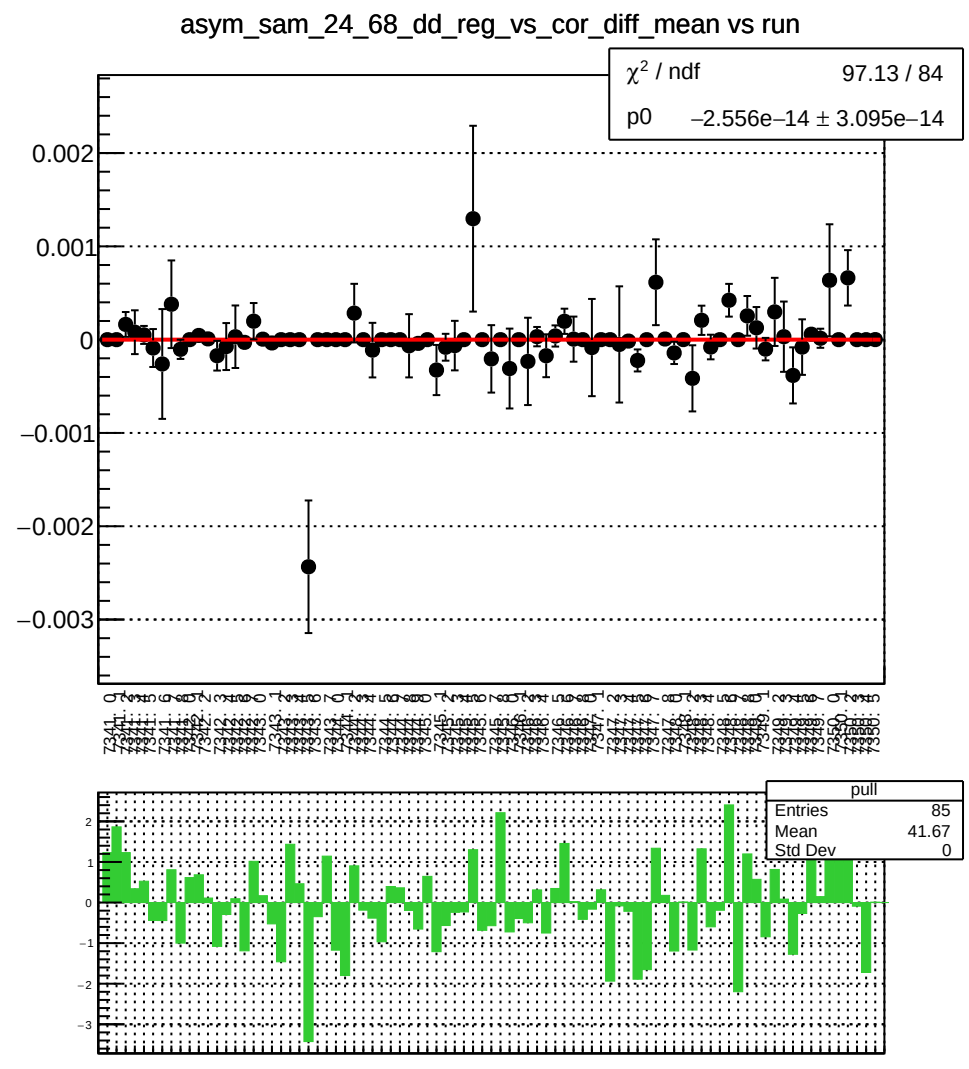

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.21 / 84
p0 −884.5 ± 923.4
pull
Entries 85
Mean −417.1
Std Dev 0
pull1D
Entries 85
Mean −0.008008
Std Dev 0.9894

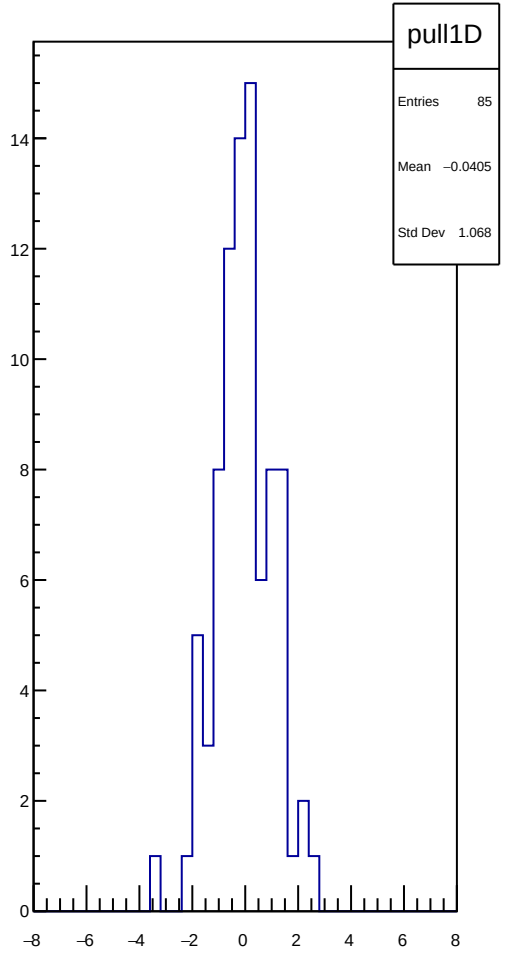

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 4776 / 84
p0 828.9 ± 0.6529
1050
1000
950
900
850
800
750

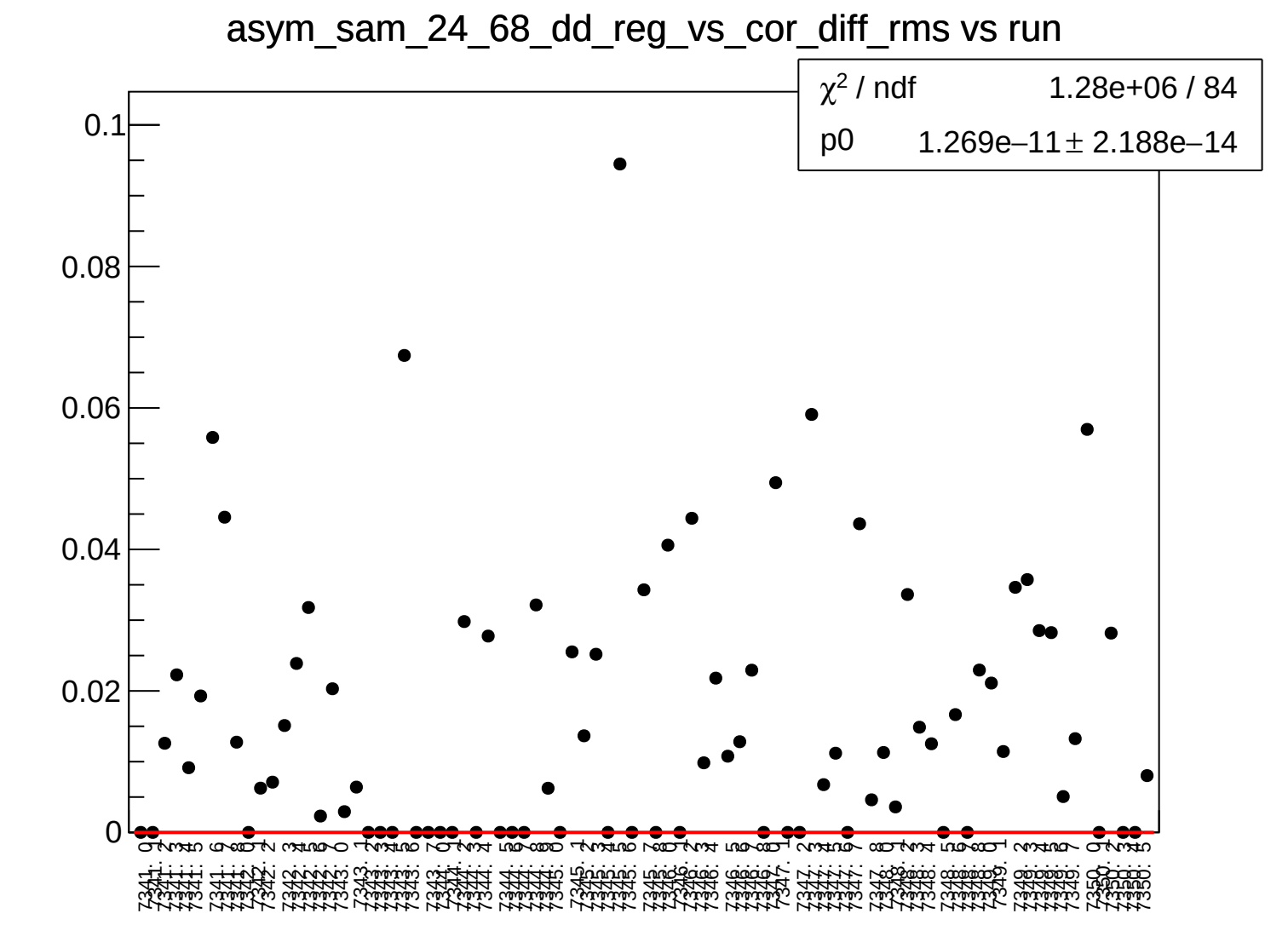

asym_sam_24_68_dd_mean vs run
χ² / ndf 76.56 / 84
p0 944.5 ± 939.4
pull
Entries 85
Mean −647.8
Std Dev 0

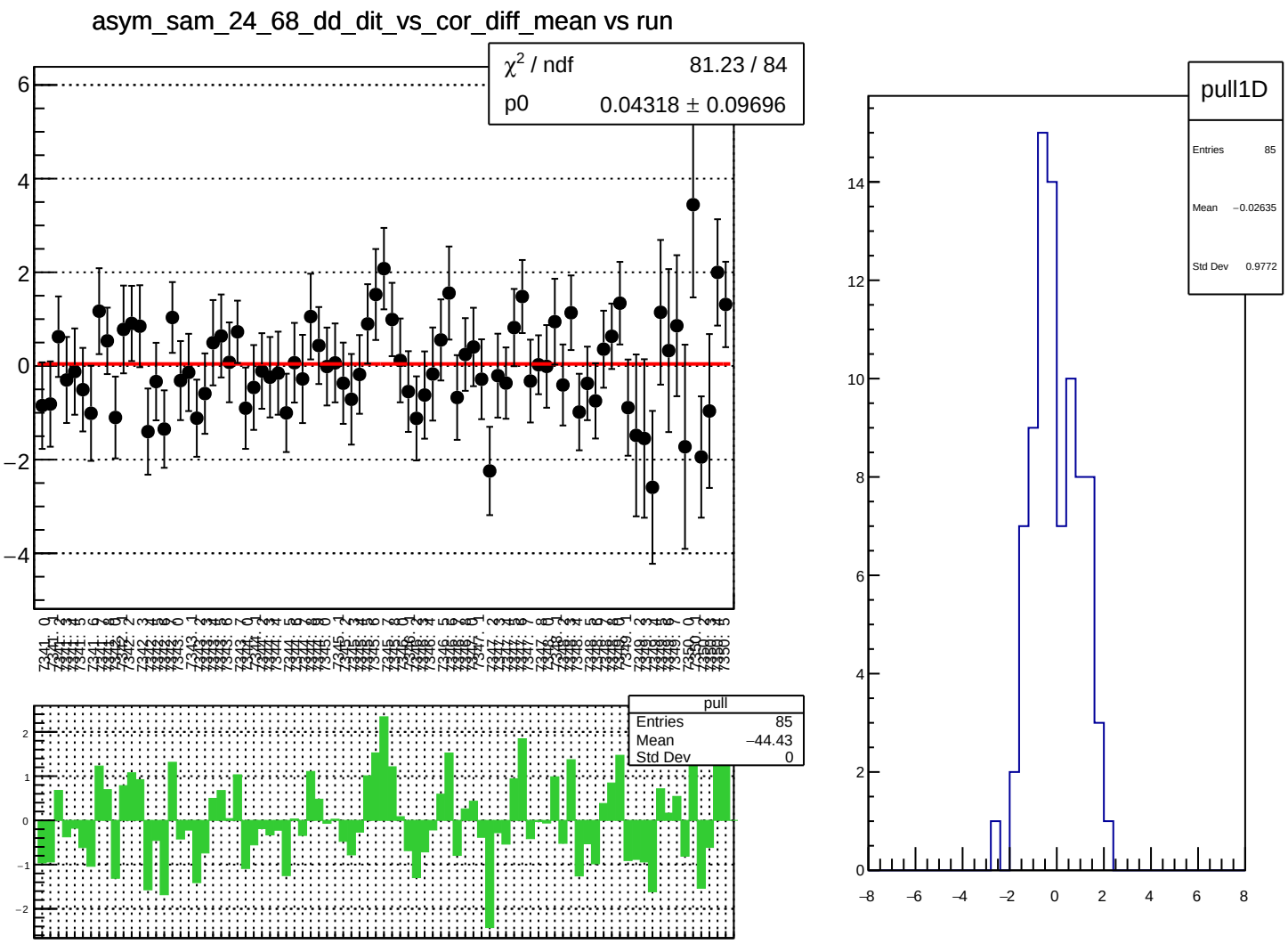

pull1D
Entries 85
Mean 0.005253
Std Dev 0.949

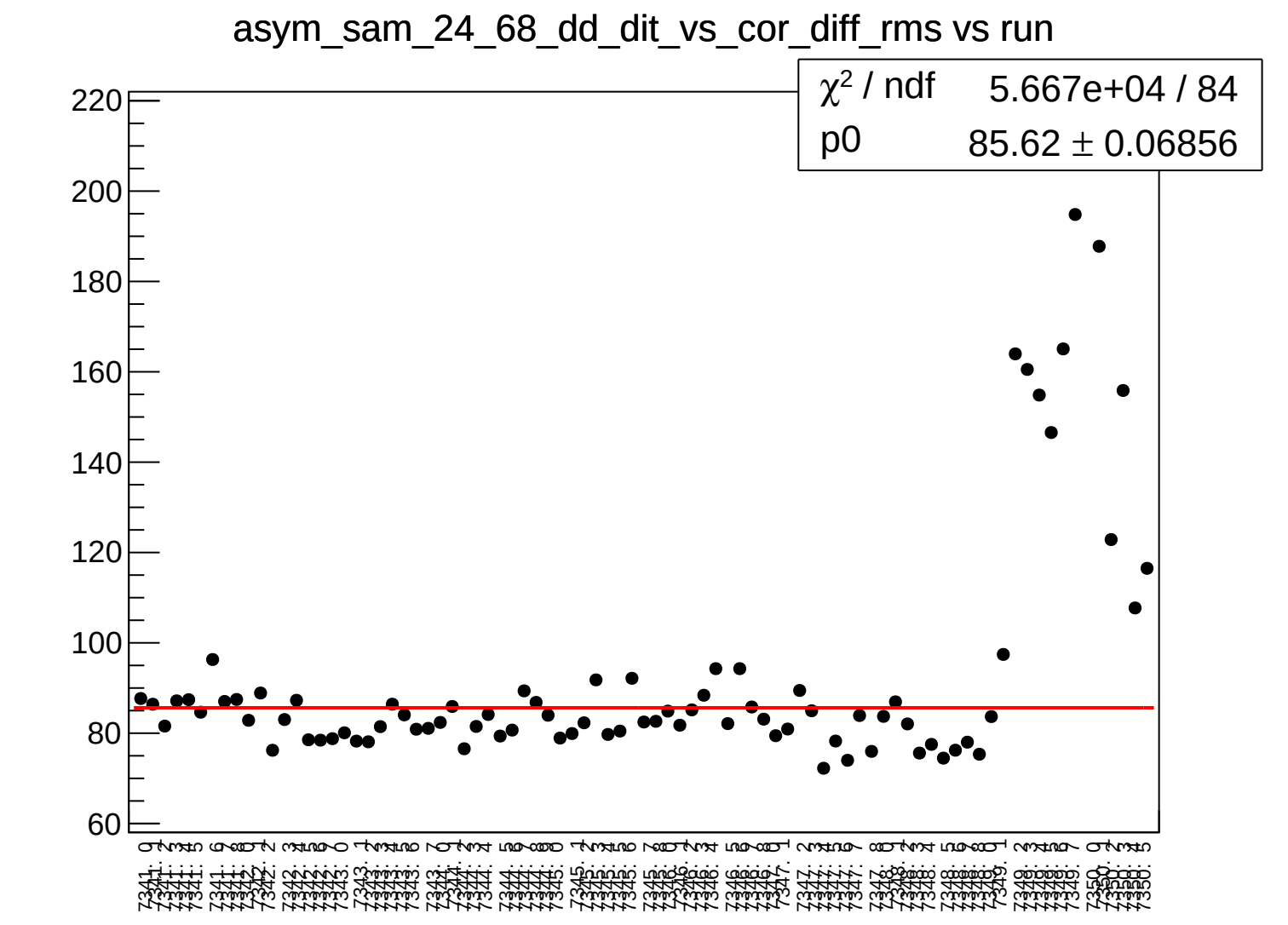

asym_sam_24_68_dd_rms vs run
χ² / ndf 5434 / 84
p0 843.1 ± 0.6643
1050
1000
950
900
850
800
750
700

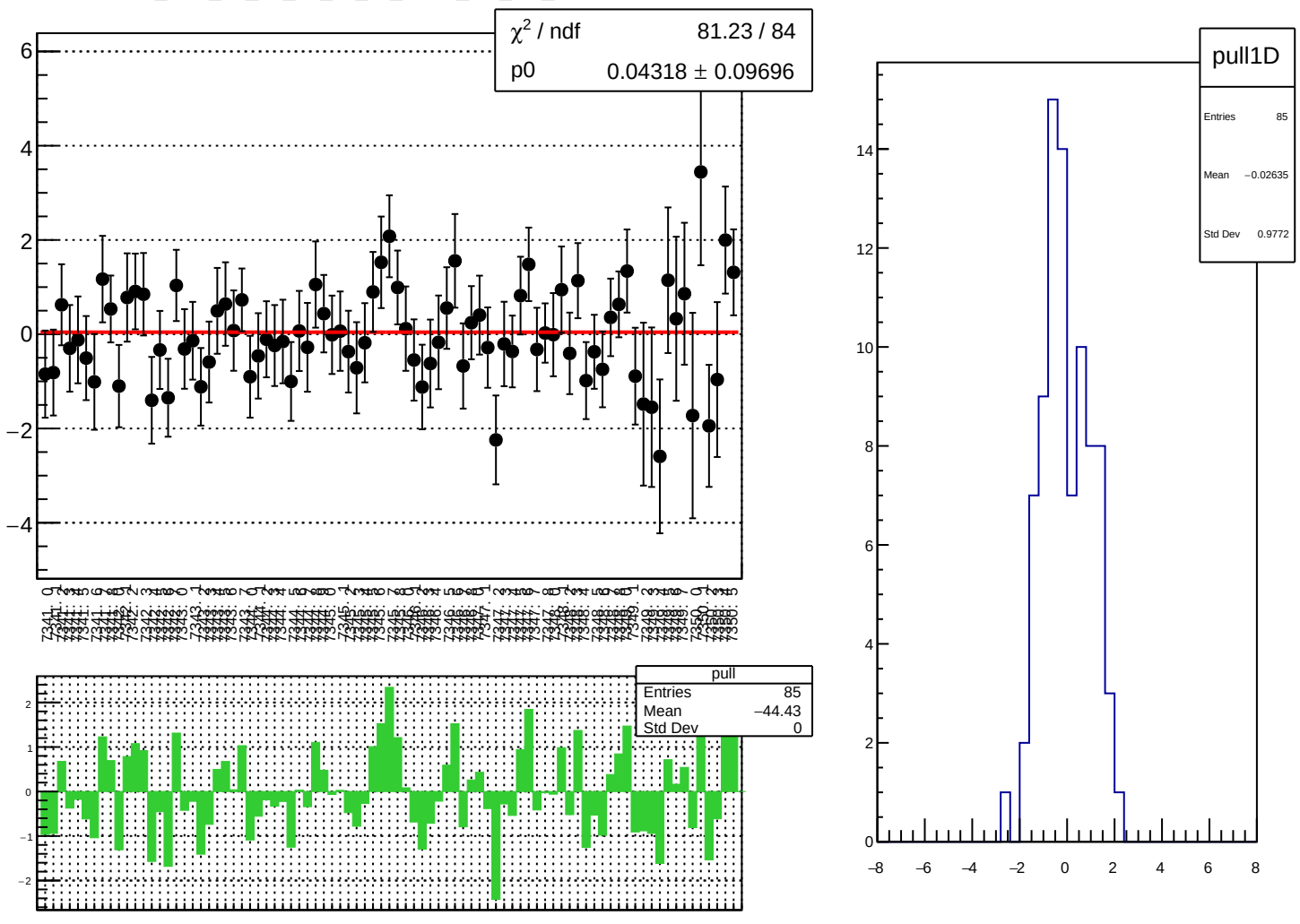

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.13 / 84
p0 −2.556e−14 ± 3.095e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 85
Mean 41.67
Std Dev 0
2
1
0
−1
−2
−3

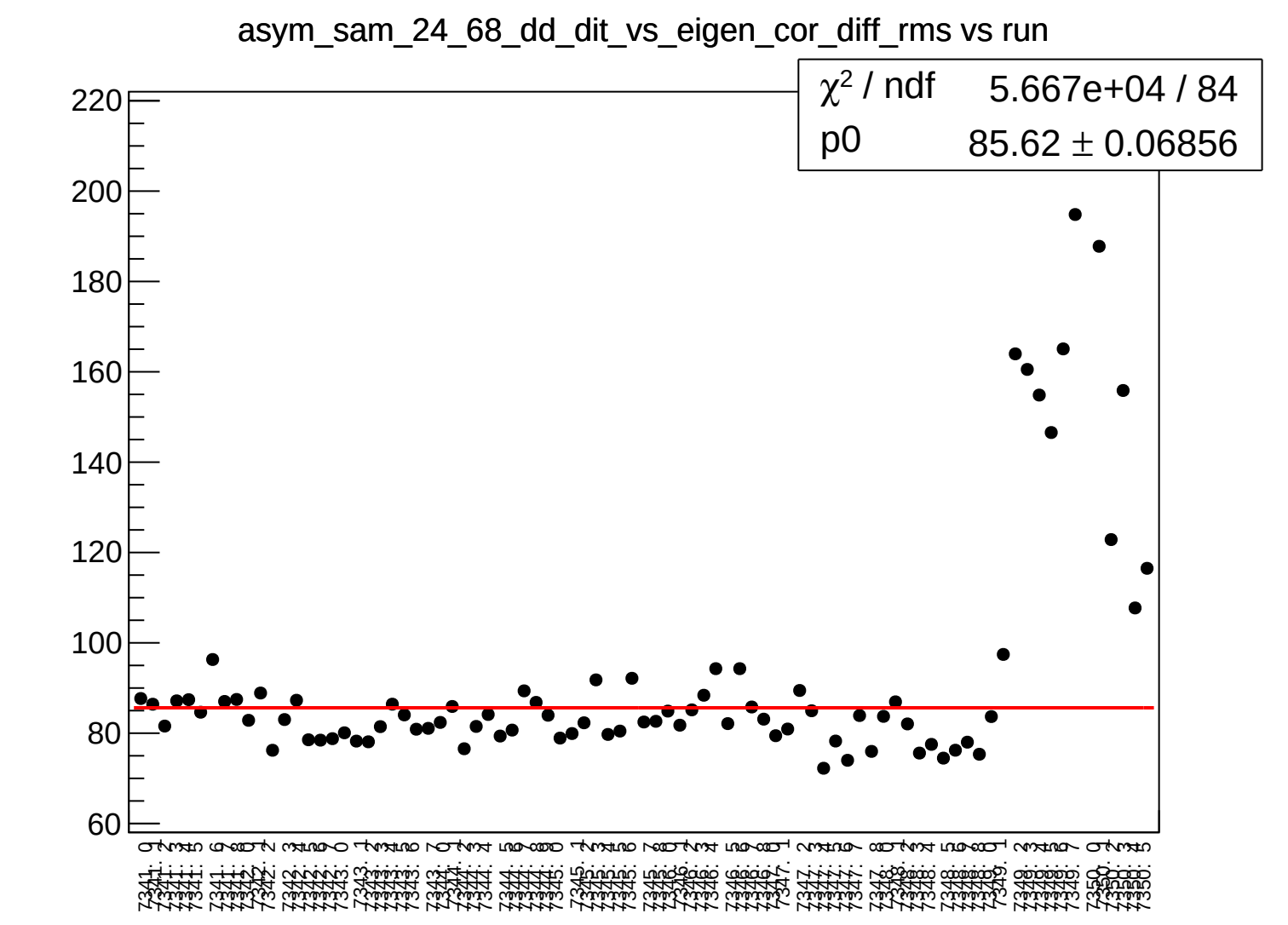

pull1D
Entries 85
Mean −0.0405
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

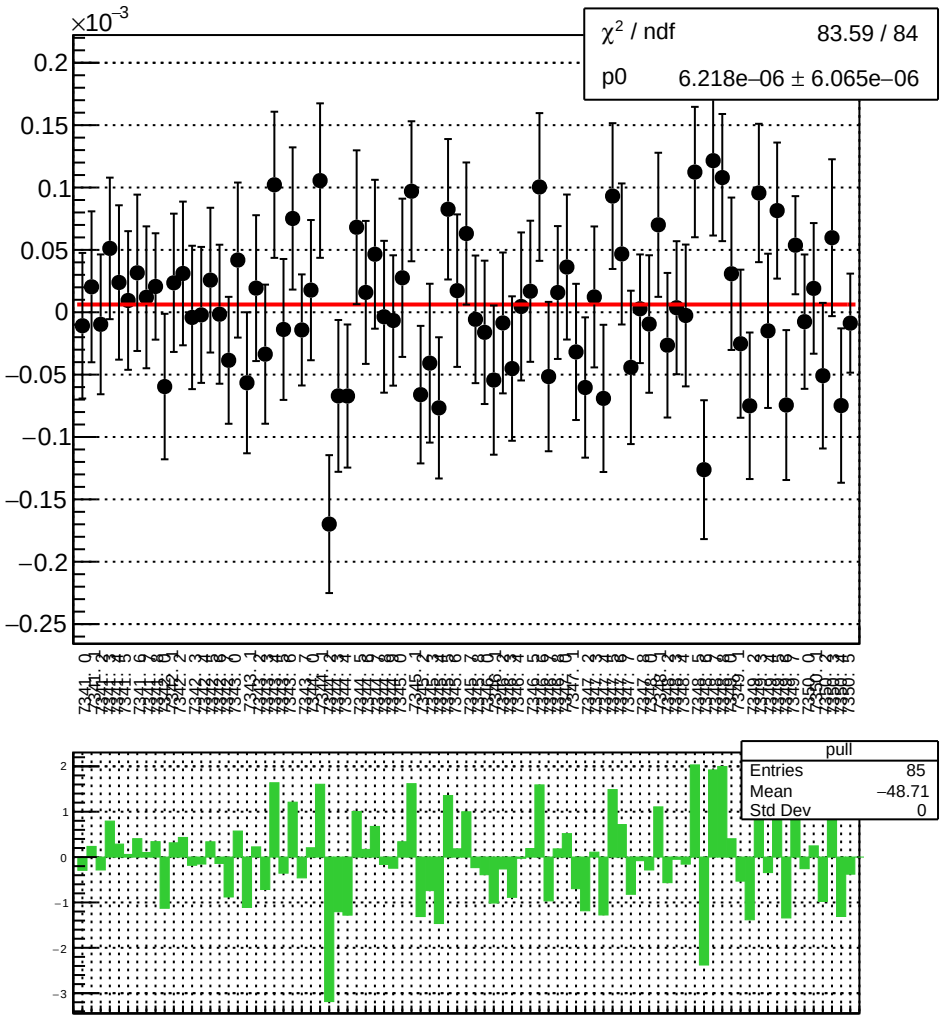

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.28e+06 / 84
p0 1.269e−11 ± 2.188e−14
0.1
0.08
0.06
0.04
0.02
0

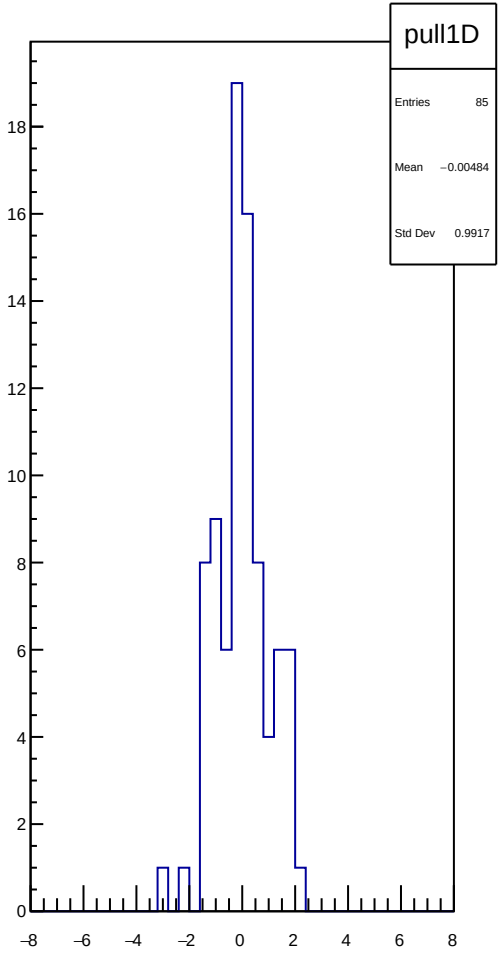

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.23 / 84
p0 0.04318 ± 0.09696
pull
Entries 85
Mean −44.43
Std Dev 0
pull1D
Entries 85
Mean −0.02635
Std Dev 0.9772

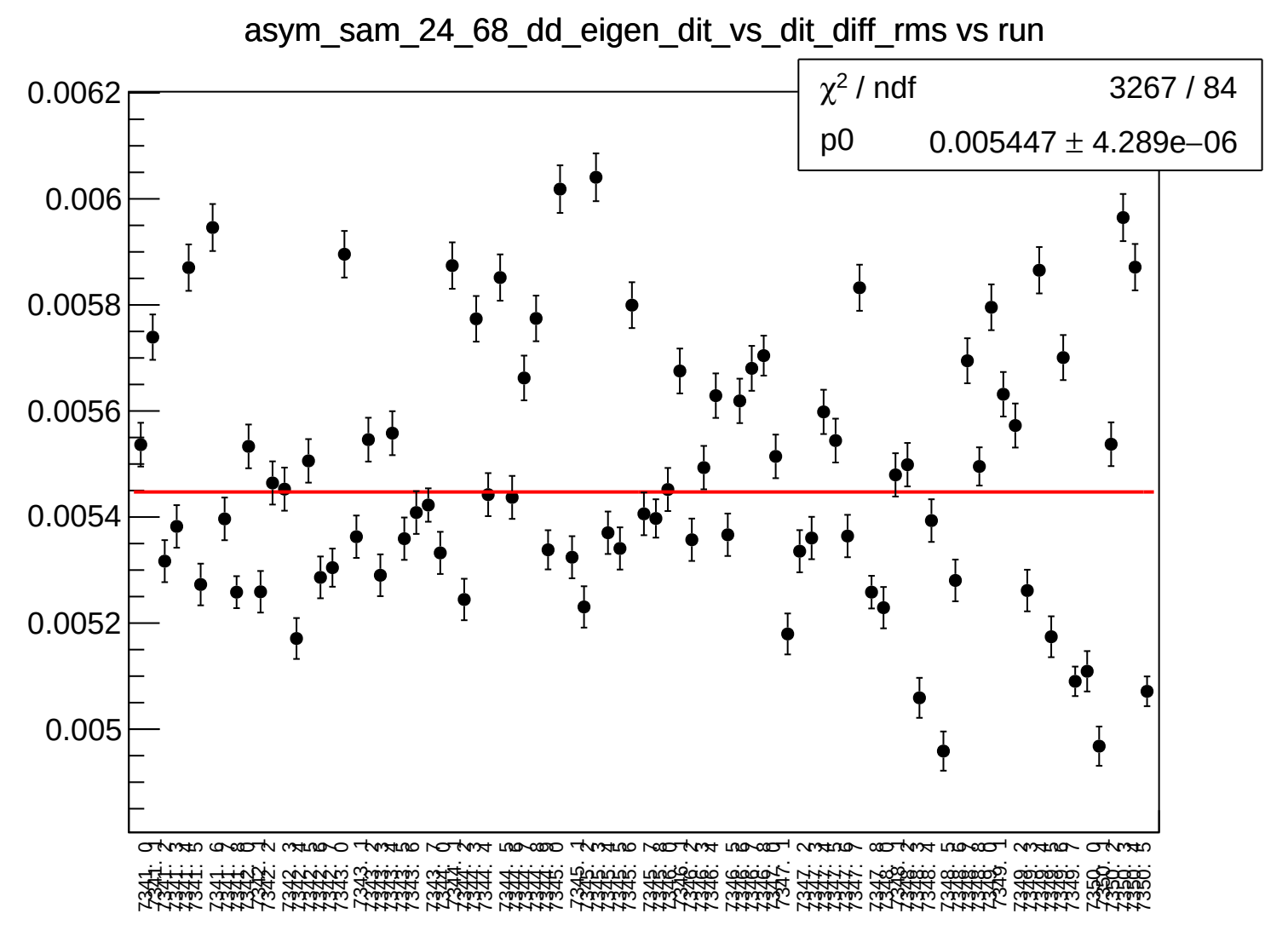

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.667e+04 / 84
p0 85.62 ± 0.06856
220
200
180
160
140
120
100
80
60

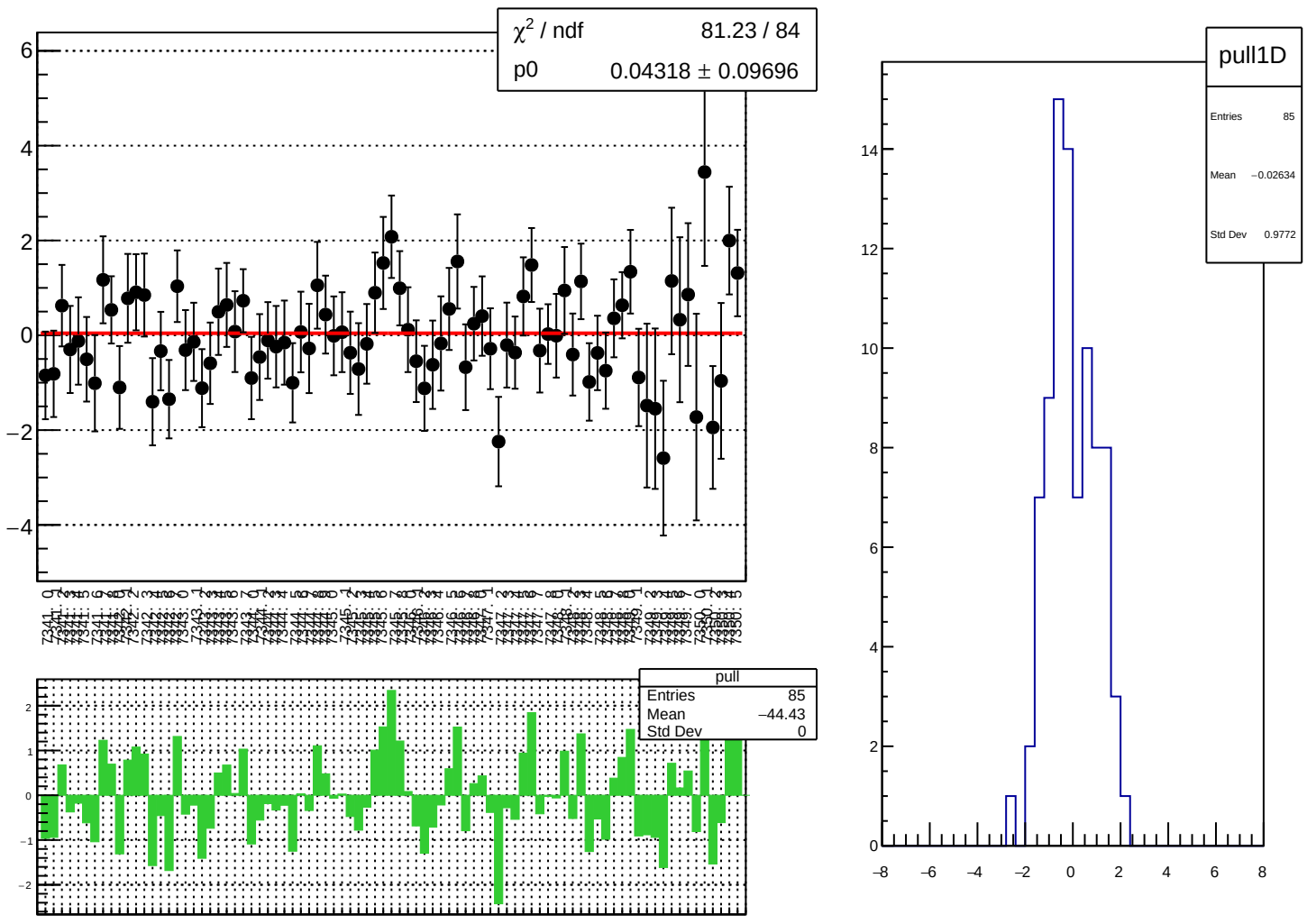

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.23 / 84
p0 0.04318 ± 0.09696
pull
Entries 85
Mean −44.43
Std Dev 0
pull1D
Entries 85
Mean −0.02635
Std Dev 0.9772

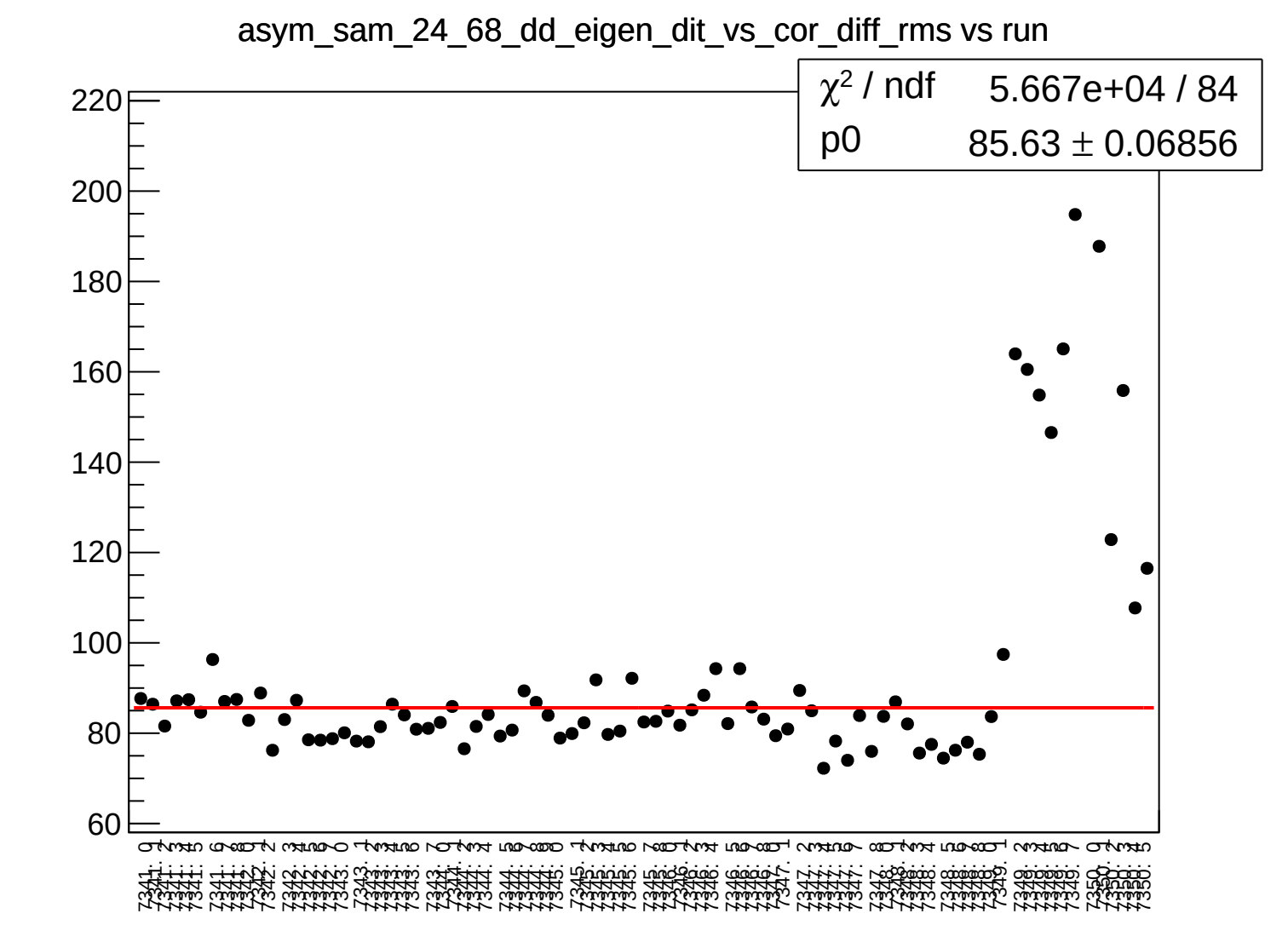

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.667e+04 / 84
p0 85.62 ± 0.06856
220
200
180
160
140
120
100
80
60


asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.59 / 84
p0 6.218e−06 ± 6.065e−06
pull
Entries 85
Mean −48.71
Std Dev 0

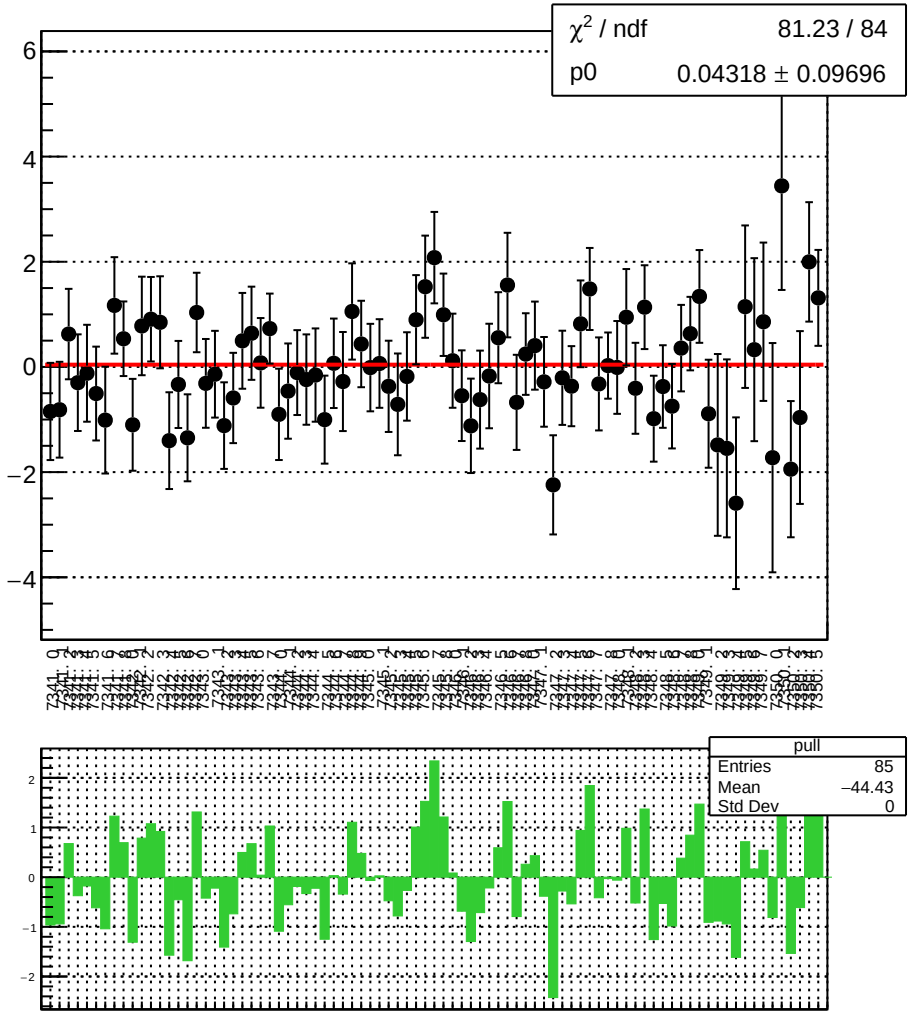

pull1D
Entries 85
Mean −0.00484
Std Dev 0.9917

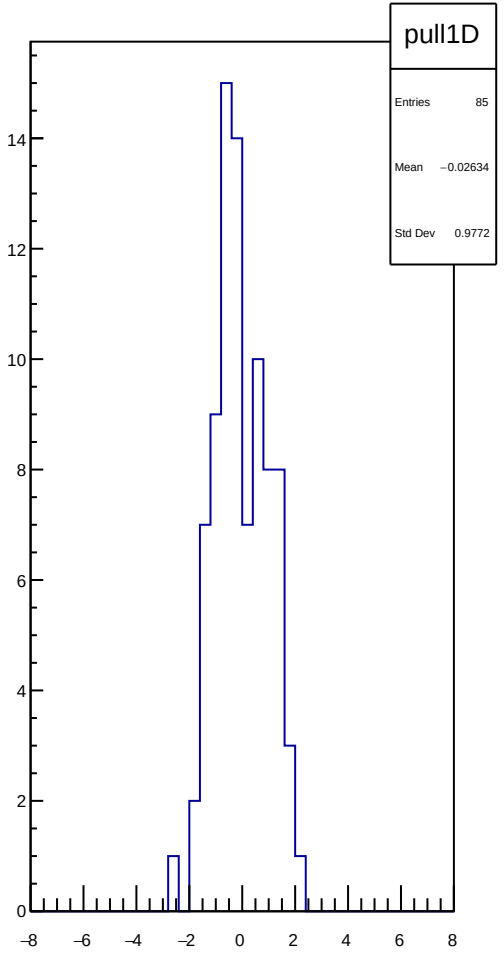

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3267 / 84
p0 0.005447 ± 4.289e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005

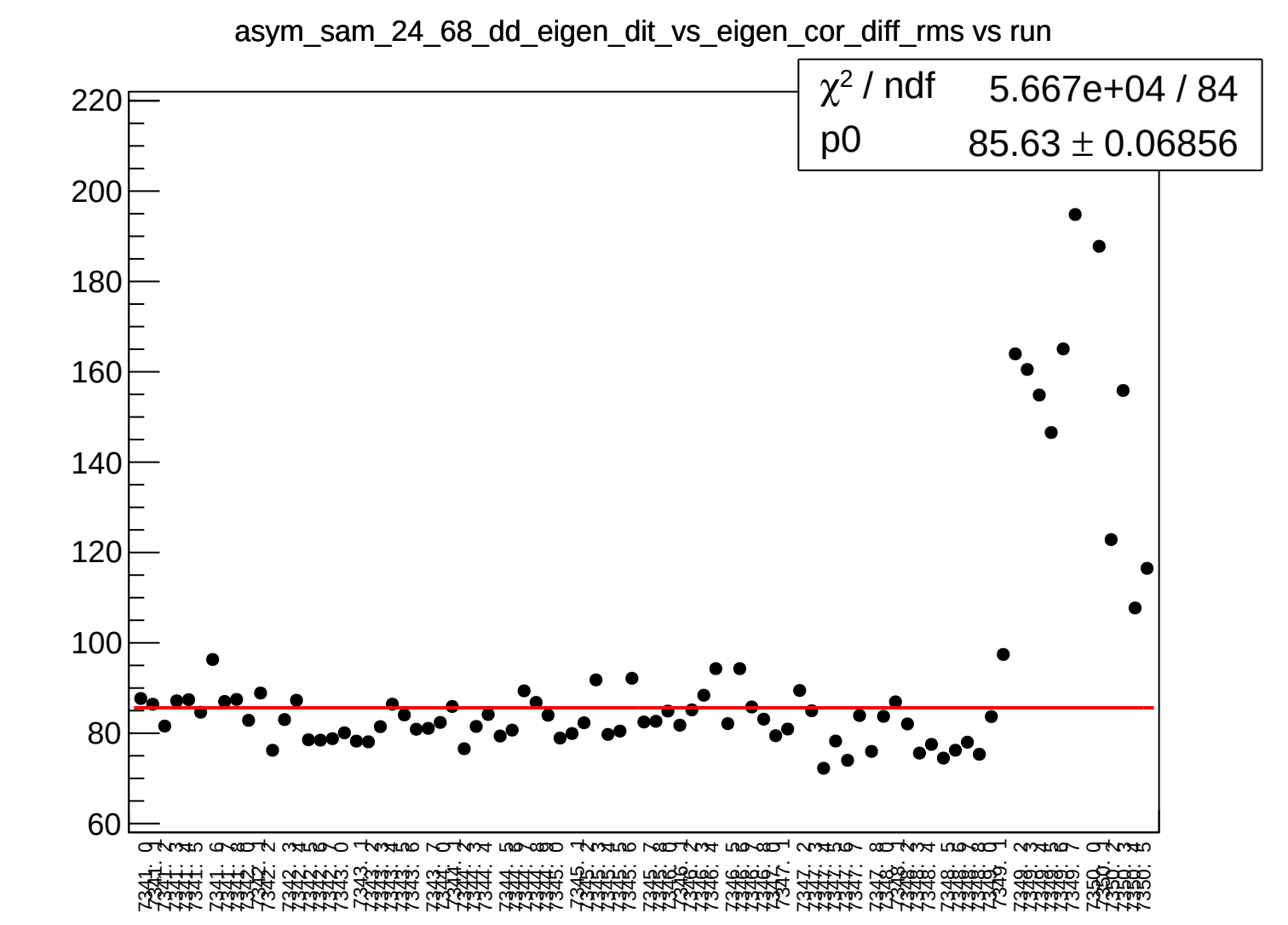

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.23 / 84
p0 0.04318 ± 0.09696
pull
Entries 85
Mean −44.43
Std Dev 0
pull1D
Entries 85
Mean −0.02634
Std Dev 0.9772

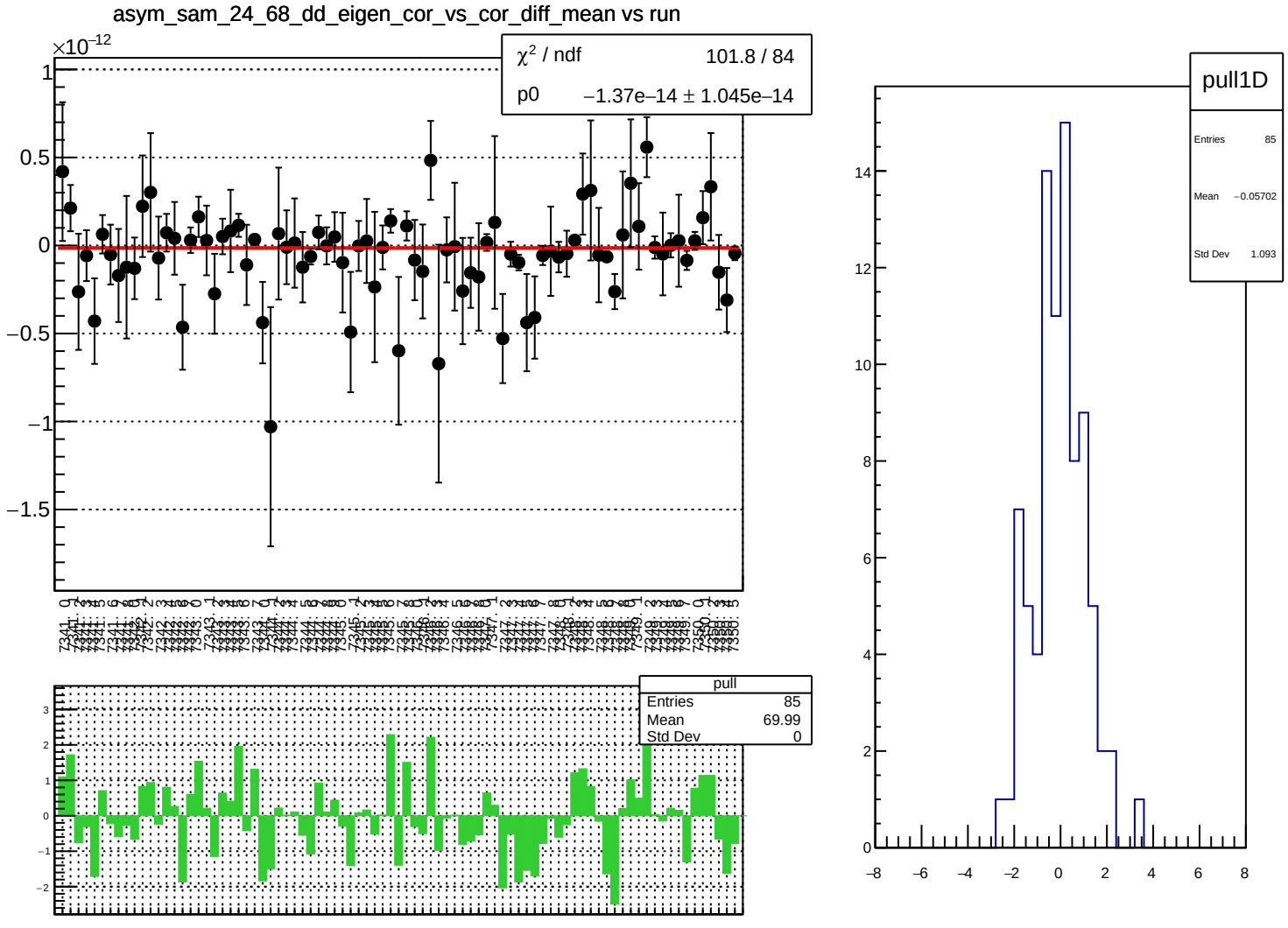

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.667e+04 / 84
p0 85.63 ± 0.06856
220
200
180
160
140
120
100
80
60

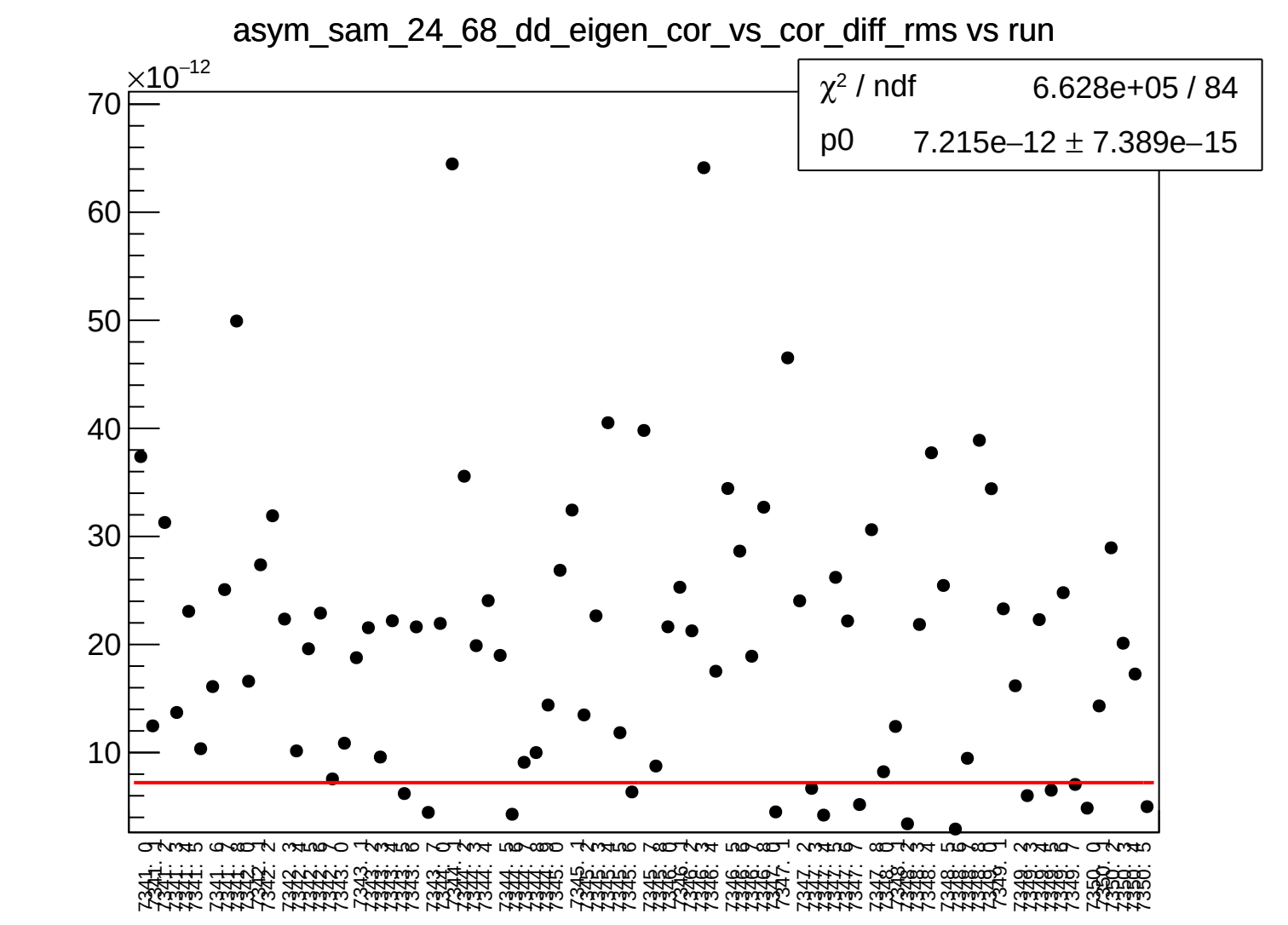
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

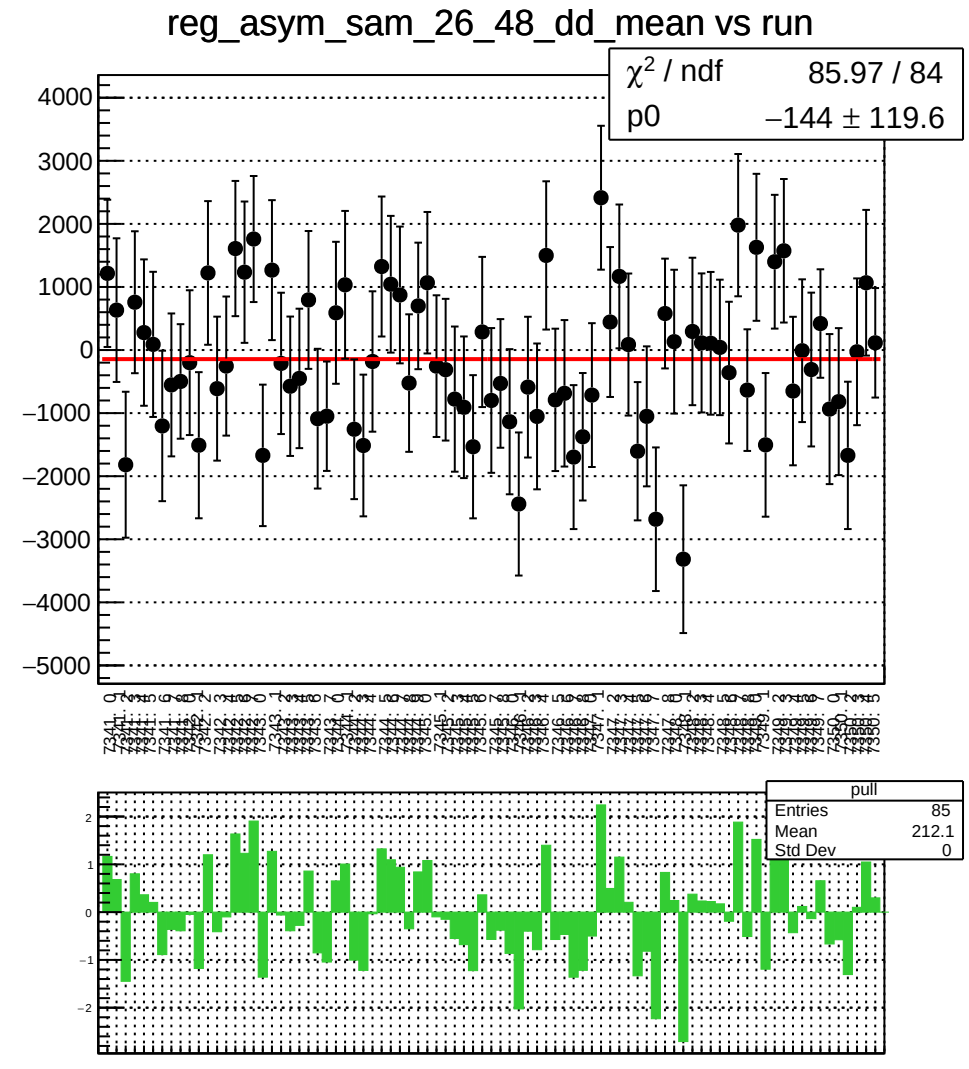


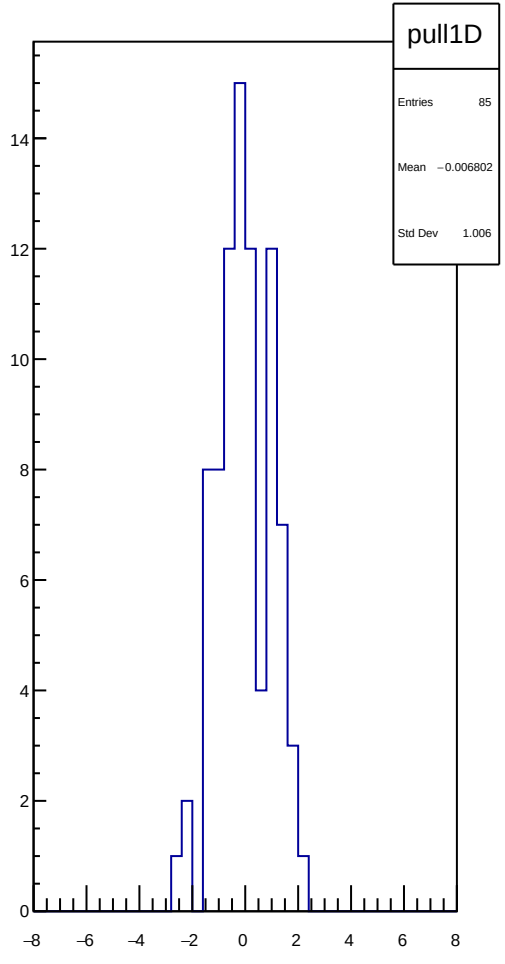


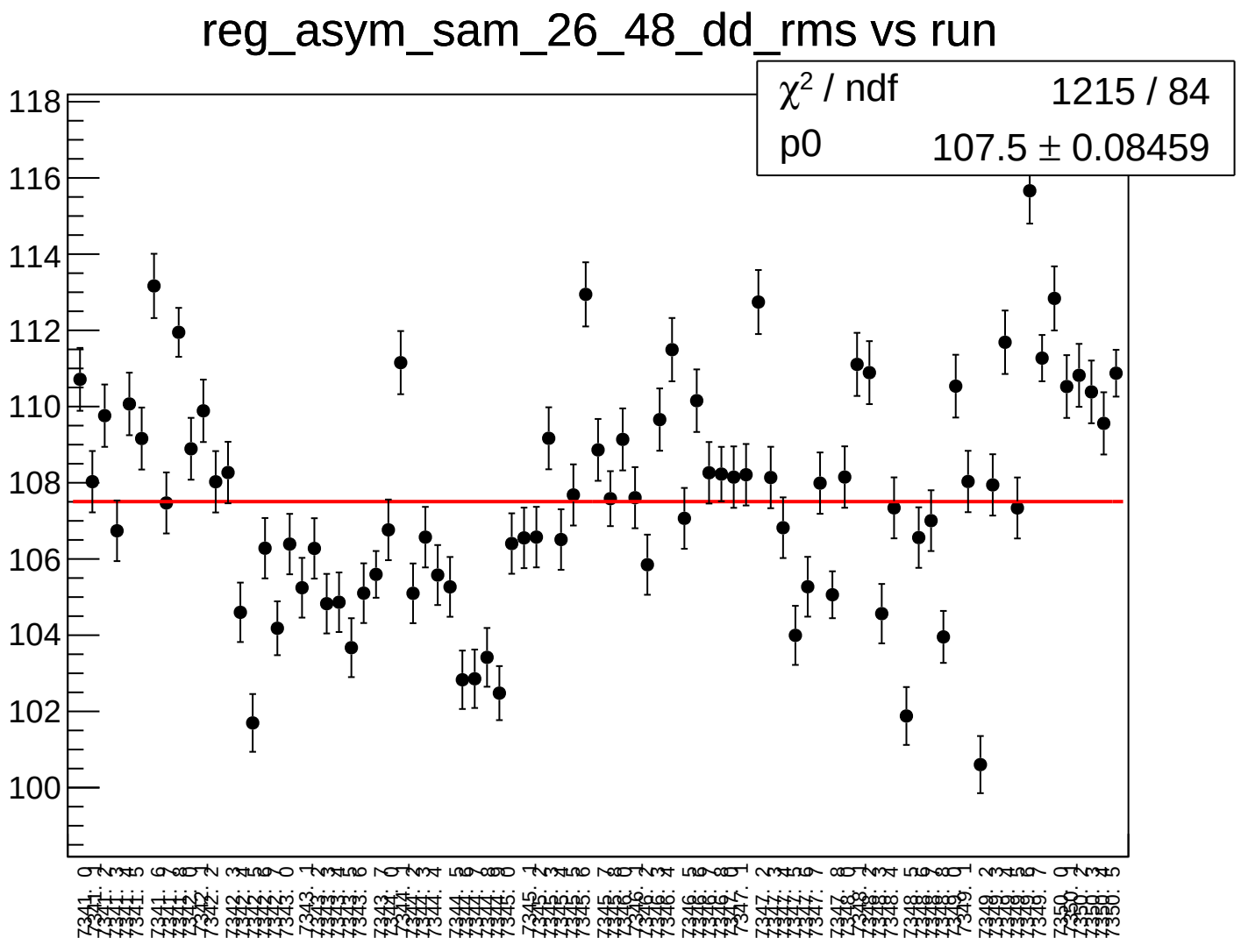

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.667e+04 / 84
p0 85.63 ± 0.06856
220
200
180
160
140
120
100
80
60

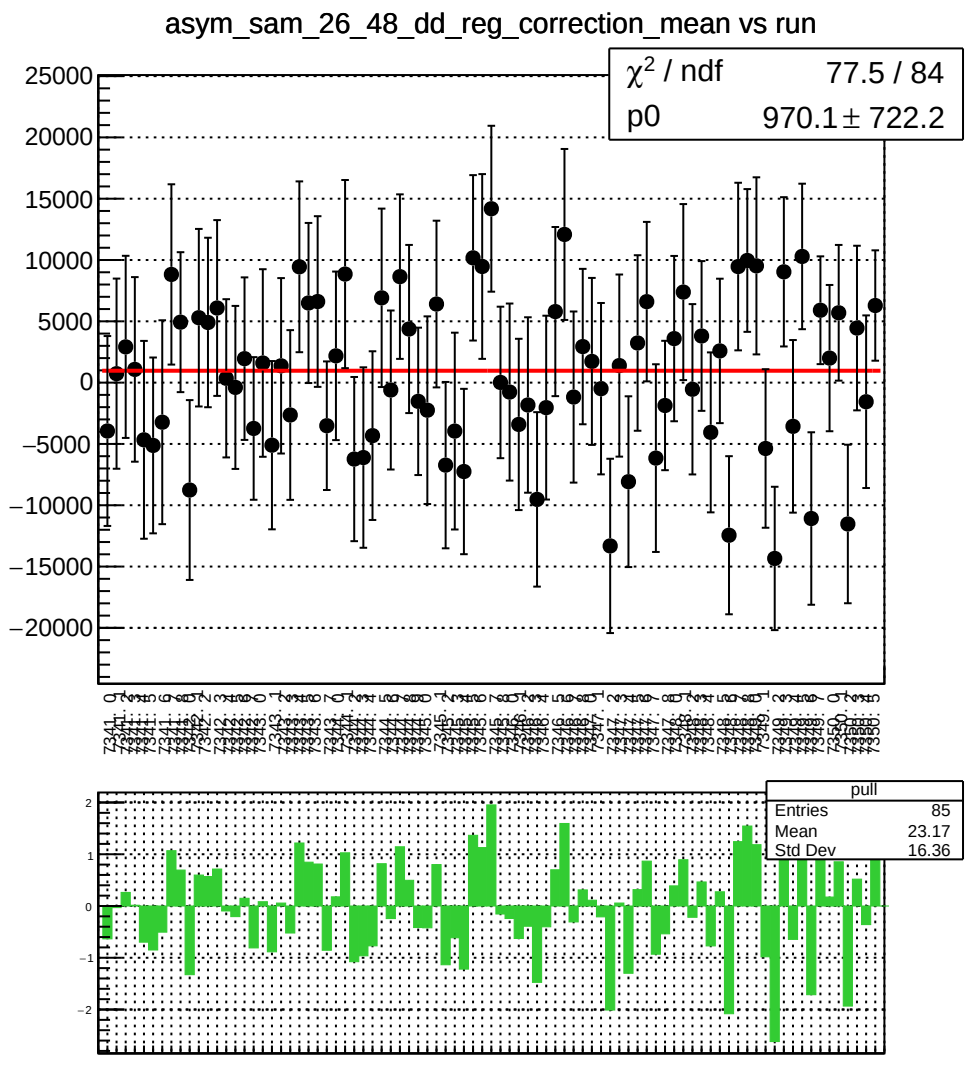

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.8 / 84
p0 −1.37e−14 ± 1.045e−14
pull
Entries 85
Mean 69.99
Std Dev 0
pull1D
Entries 85
Mean −0.05702
Std Dev 1.093

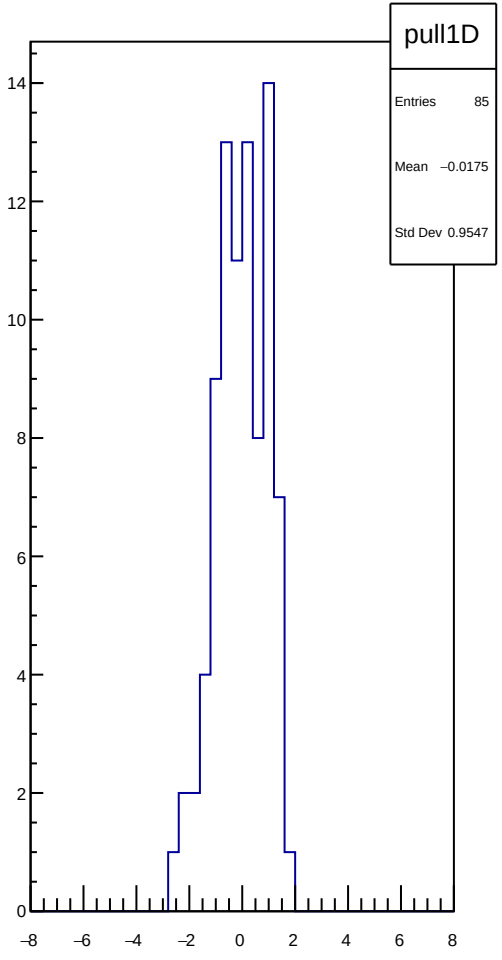

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 6.628e+05 / 84
p0 7.215e−12 ± 7.389e−15

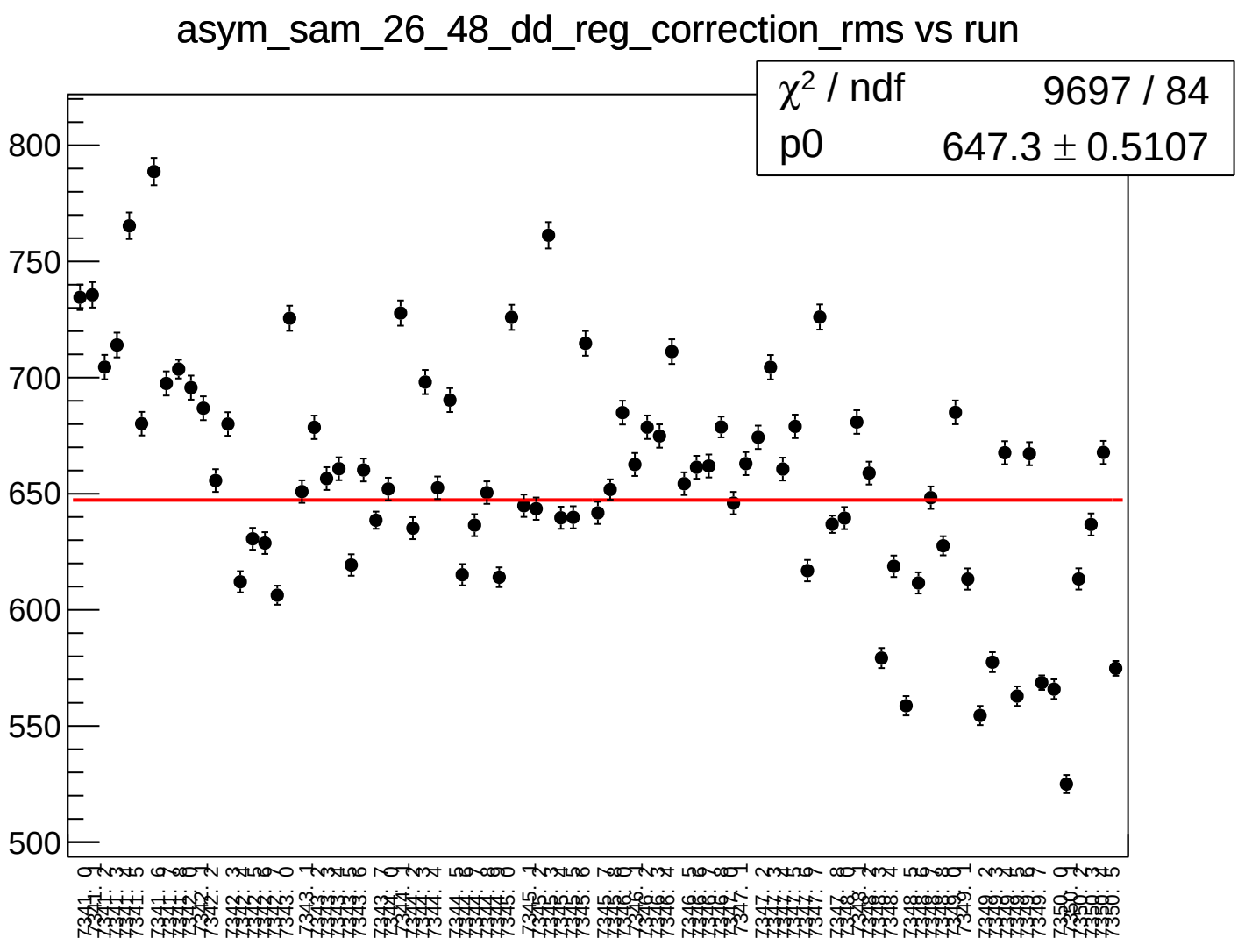

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 85.97 / 84
p0 −144 ± 119.6
pull
Entries 85
Mean 212.1
Std Dev 0

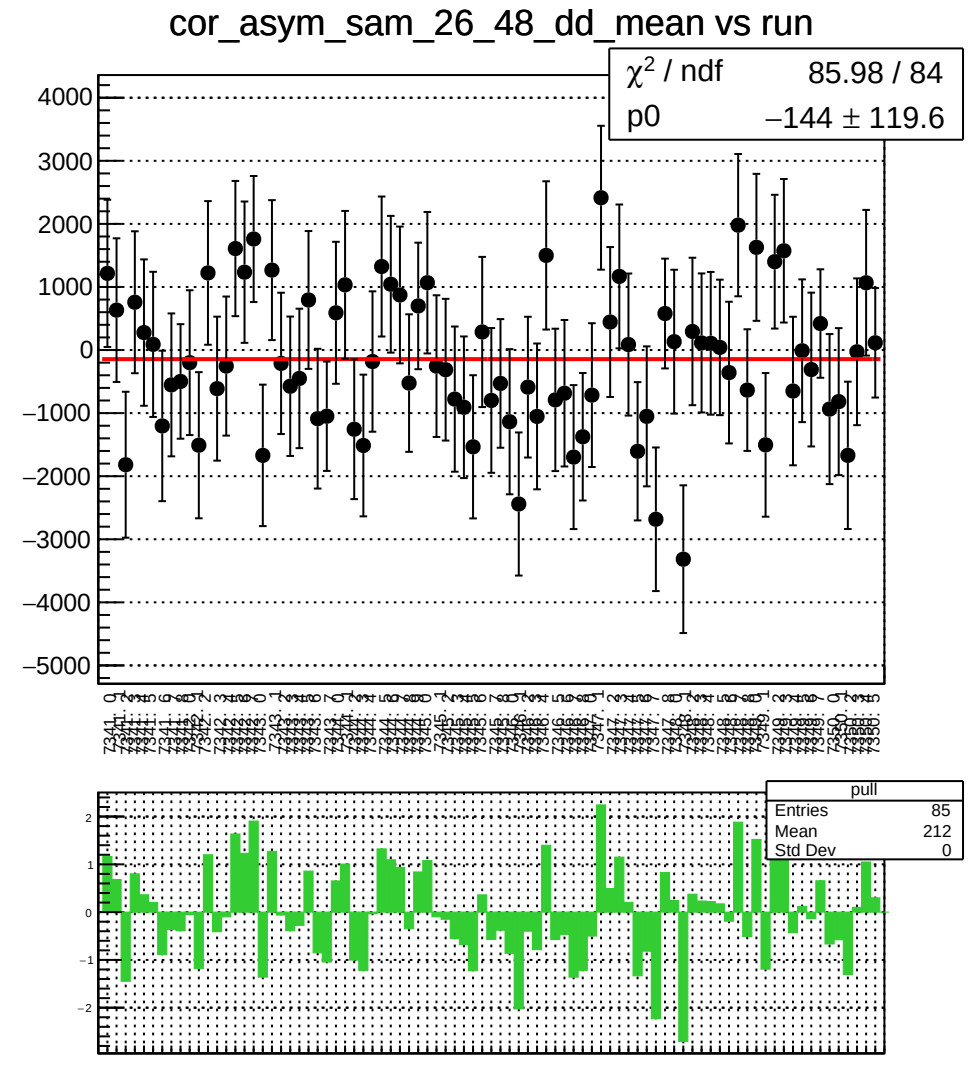

pull1D
Entries 85
Mean −0.006802
Std Dev 1.006

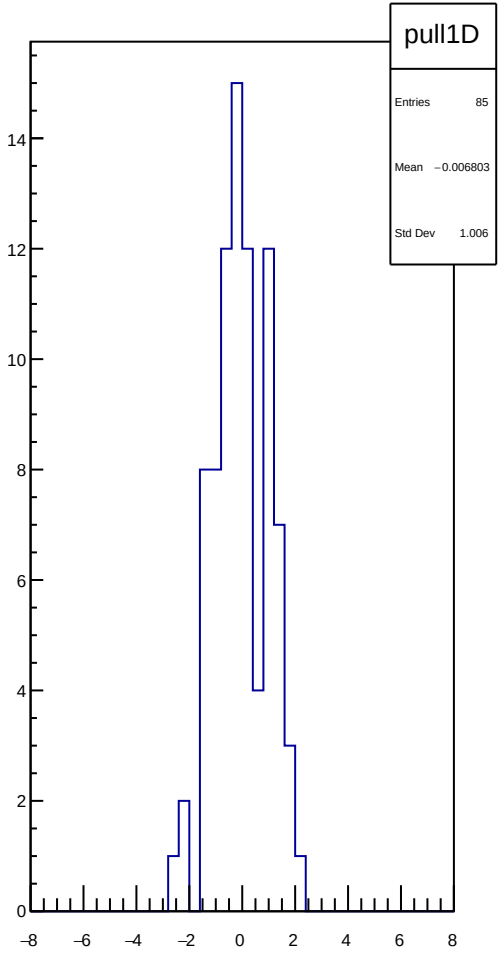

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1215 / 84
p0 107.5 ± 0.08459
118
116
114
112
110
108
106
104
102
100

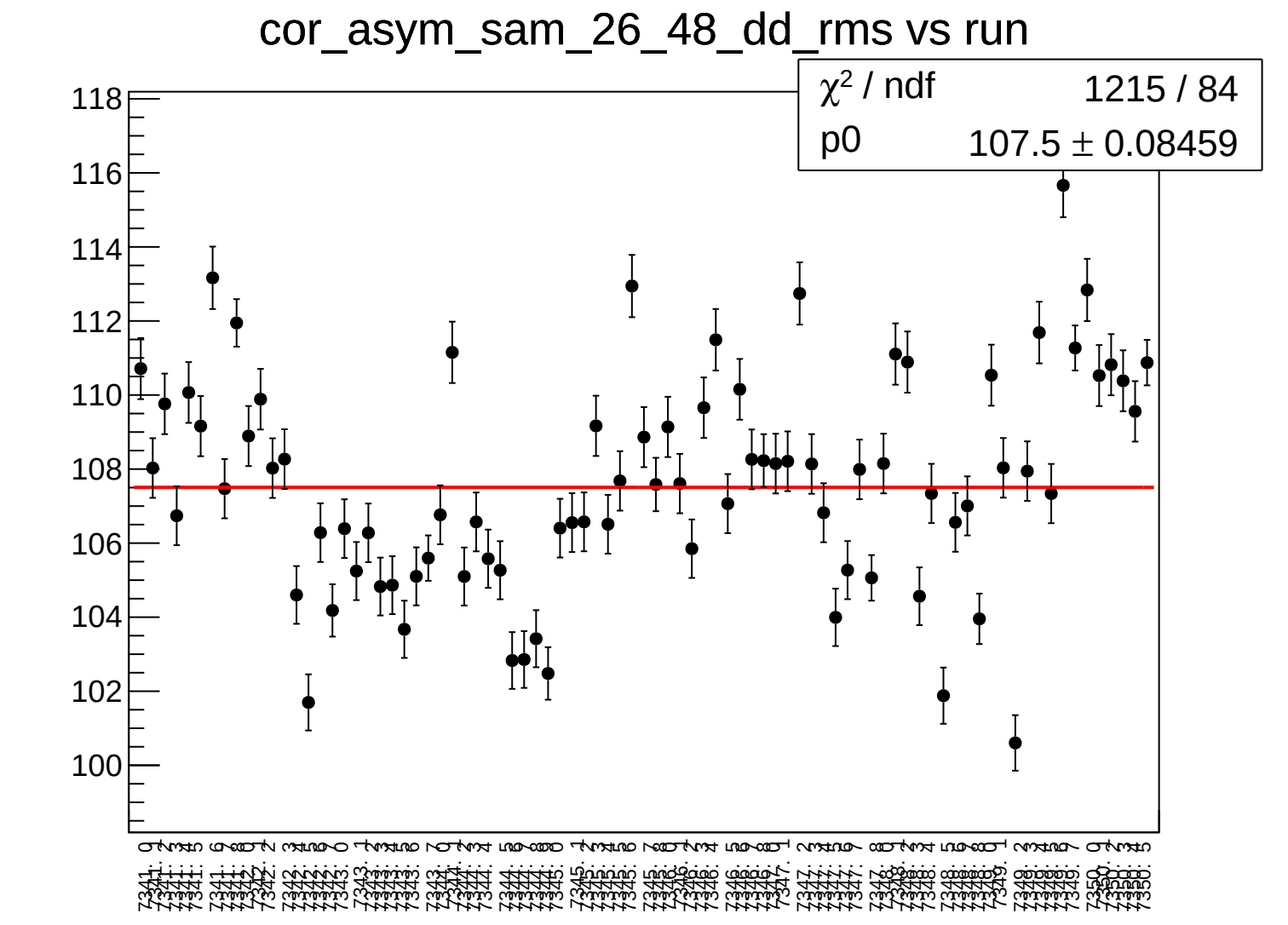

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 77.5 / 84
p0 970.1 ± 722.2
pull
Entries 85
Mean 23.17
Std Dev 16.36

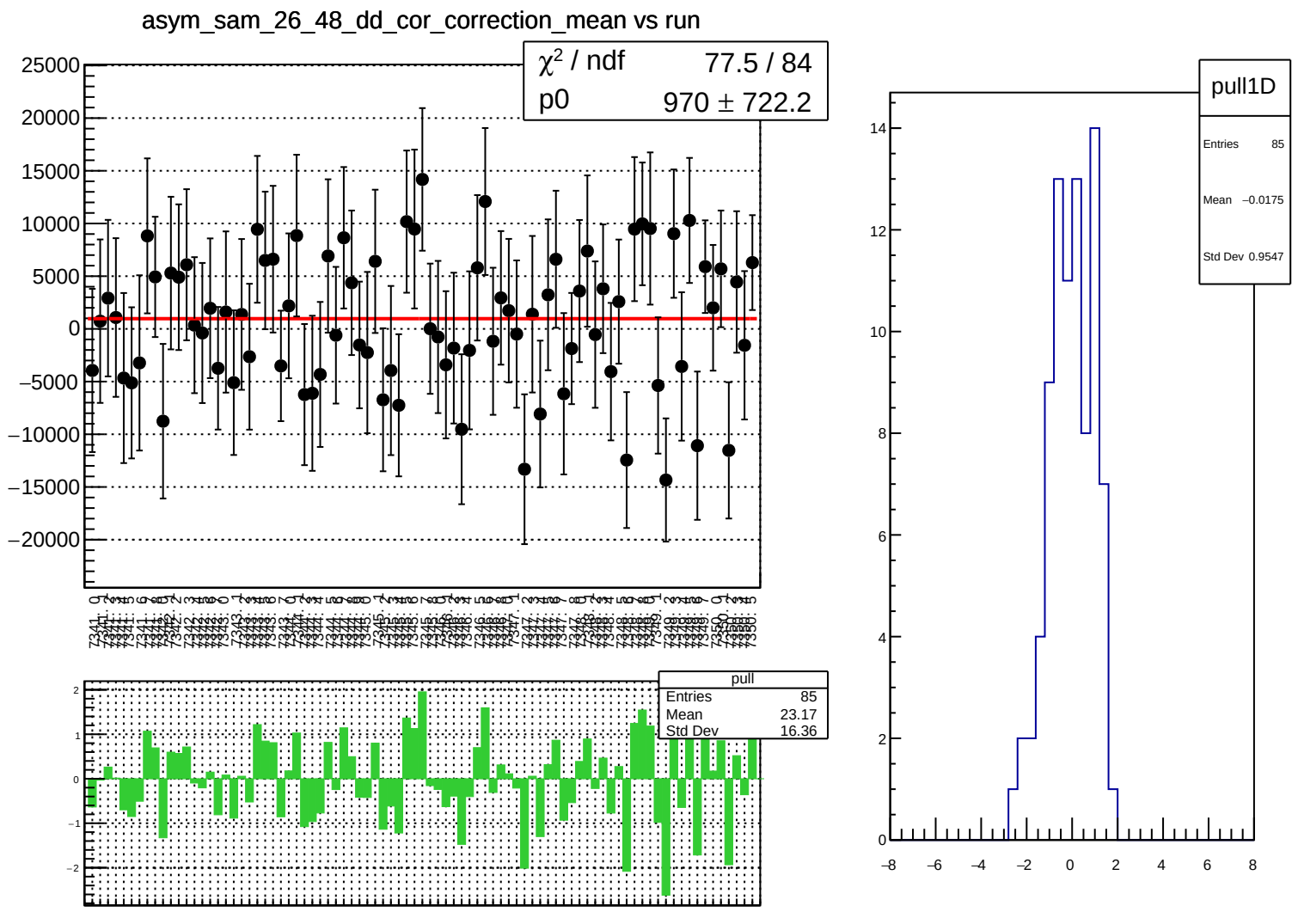

pull1D
Entries 85
Mean −0.0175
Std Dev 0.9547

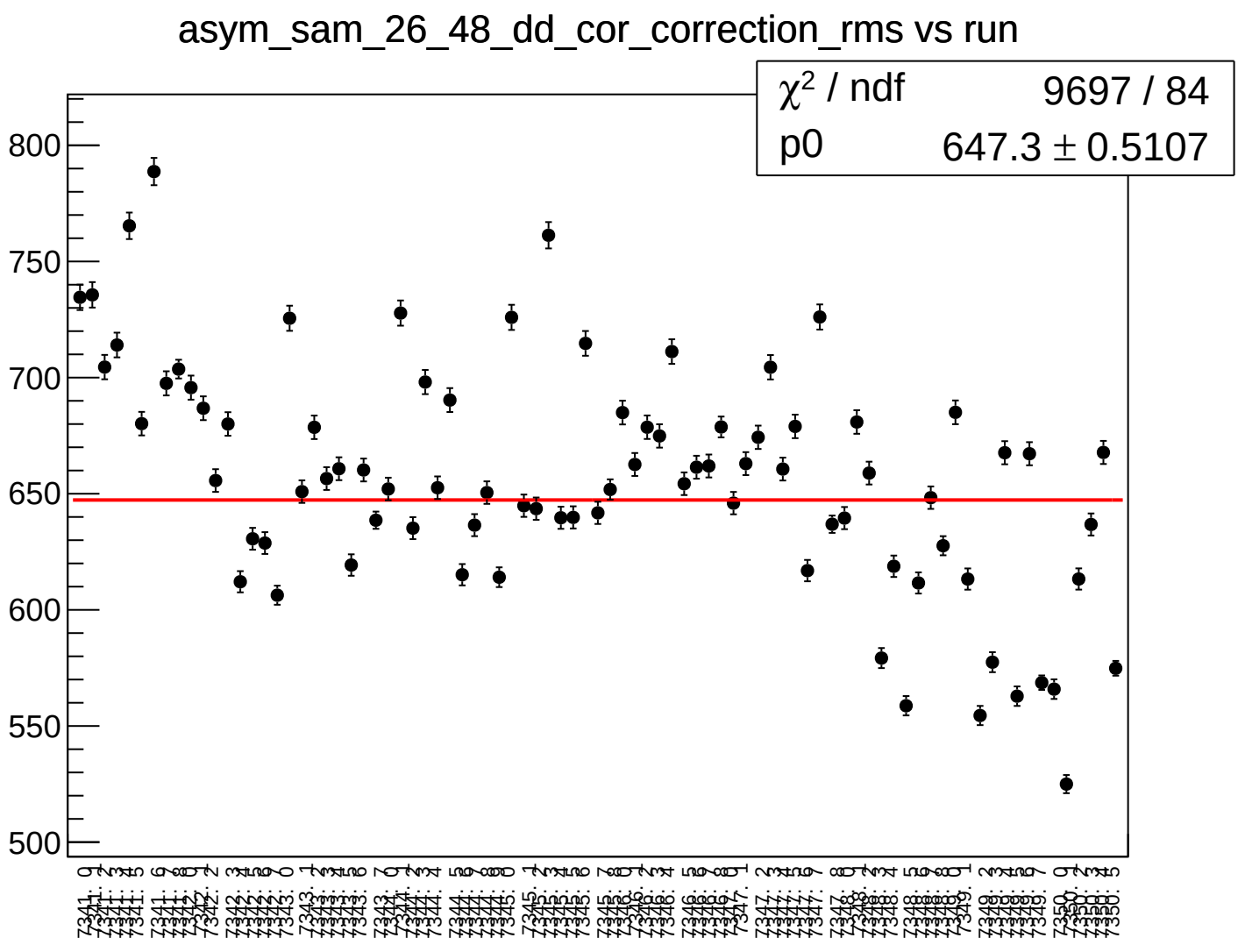

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 9697 / 84
p0 647.3 ± 0.5107
800
750
700
650
600
550
500

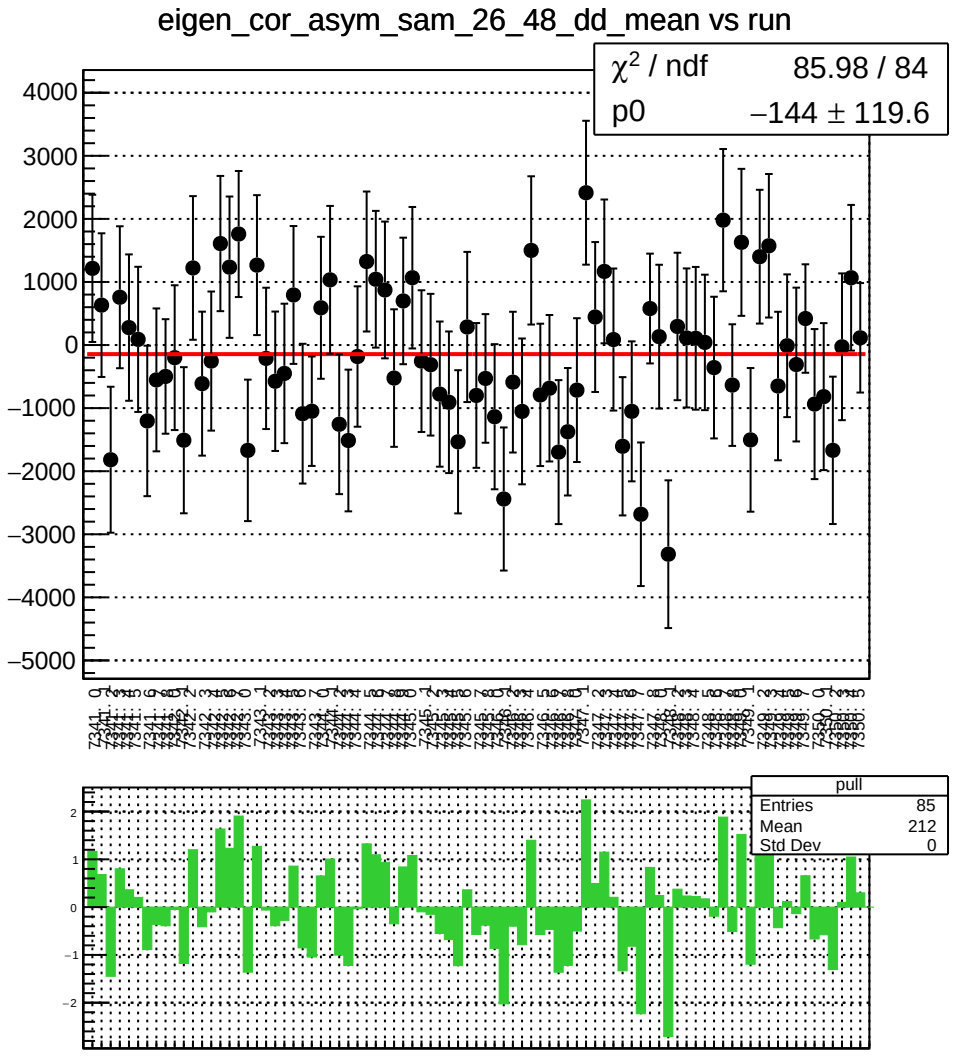

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 85.98 / 84
p0 −144 ± 119.6
pull
Entries 85
Mean 212
Std Dev 0

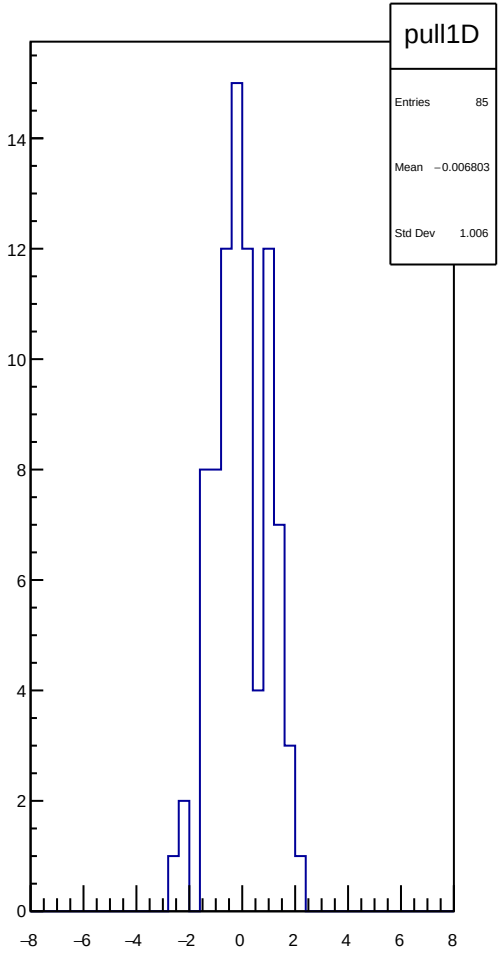

pull1D
Entries 85
Mean −0.006803
Std Dev 1.006

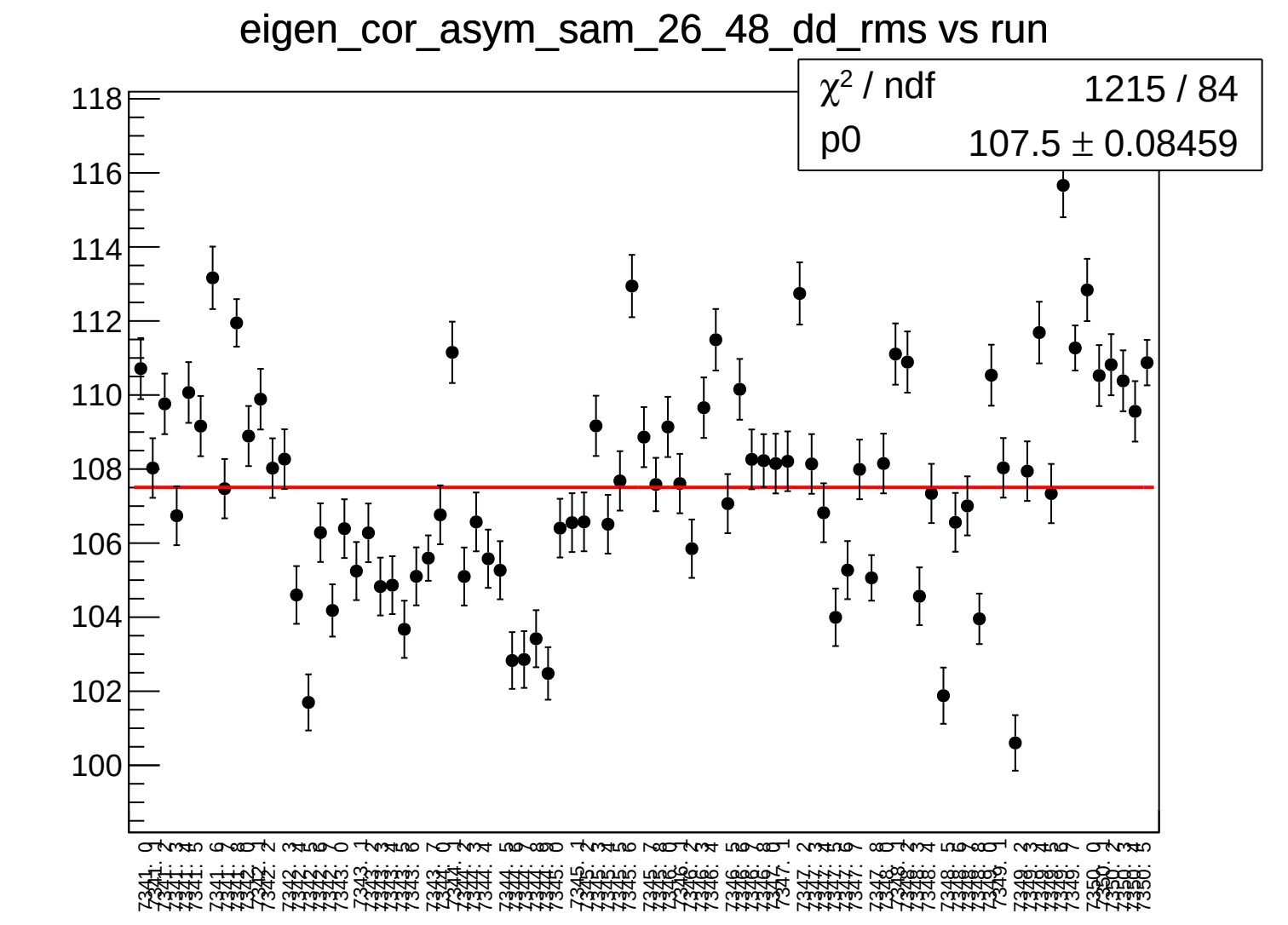

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1215 / 84
p0 107.5 ± 0.08459
118
116
114
112
110
108
106
104
102
100

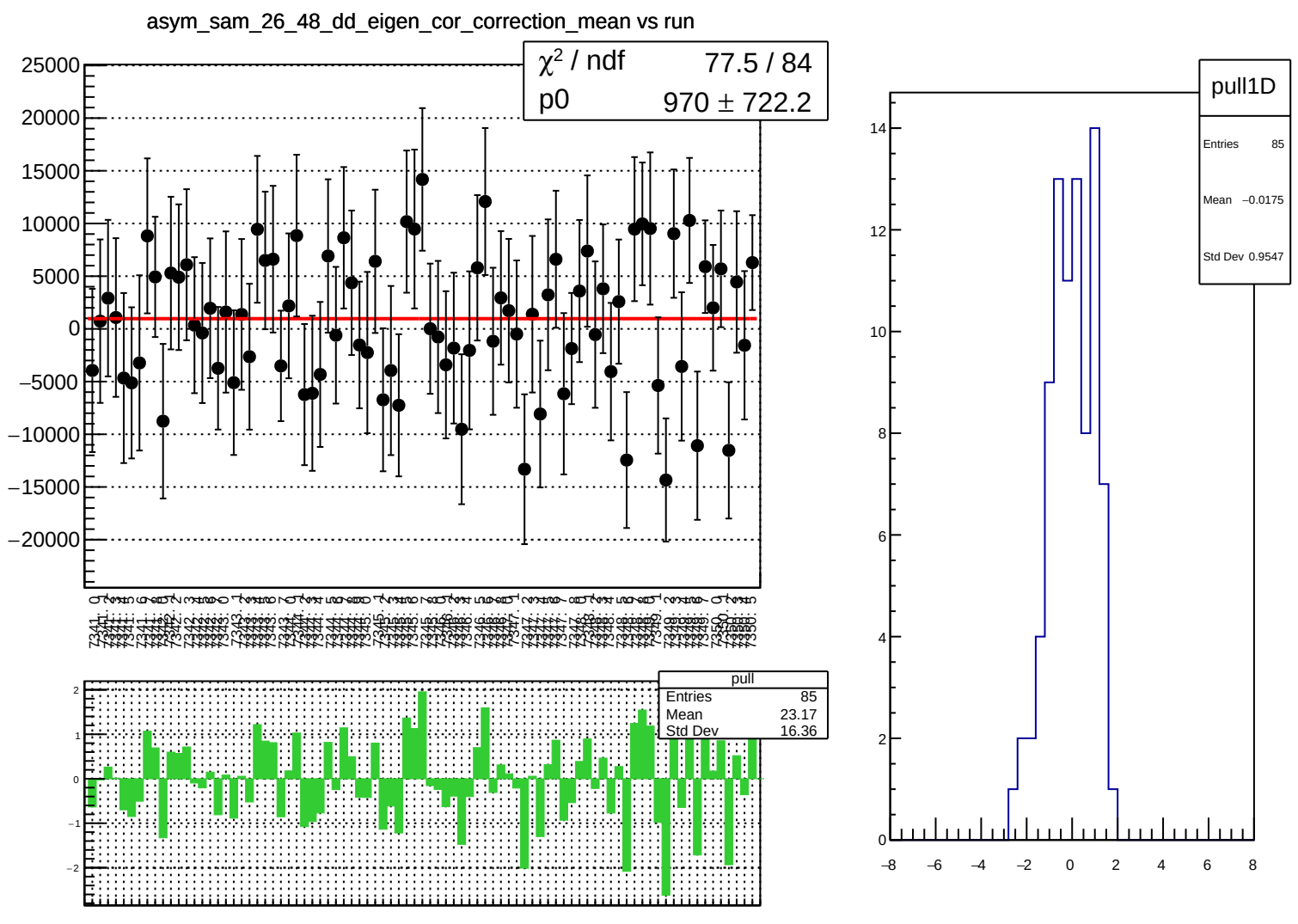

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 77.5 / 84
p0 970 ± 722.2
pull
Entries 85
Mean 23.17
Std Dev 16.36
pull1D
Entries 85
Mean −0.0175
Std Dev 0.9547

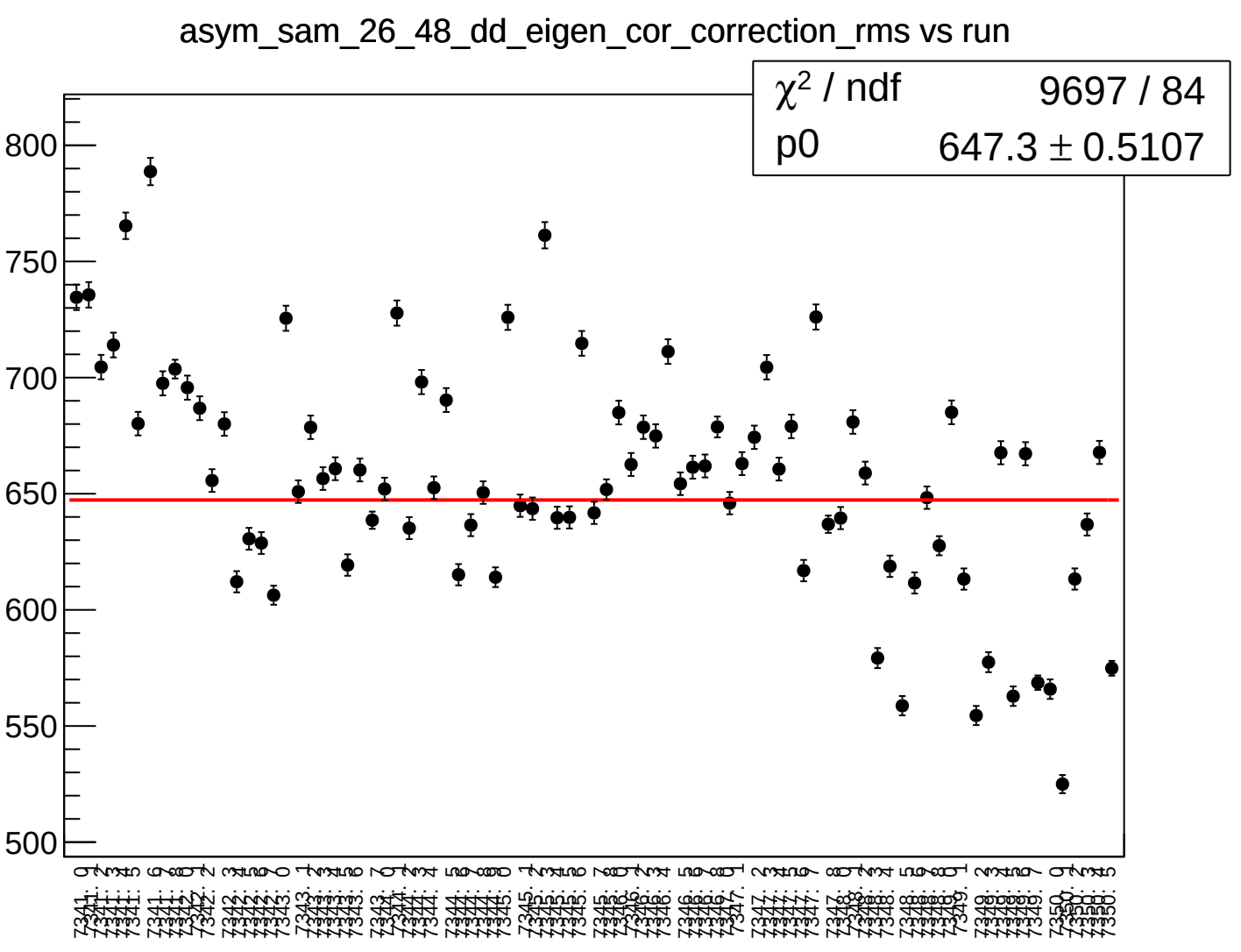

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 9697 / 84
p0 647.3 ± 0.5107
800
750
700
650
600
550
500

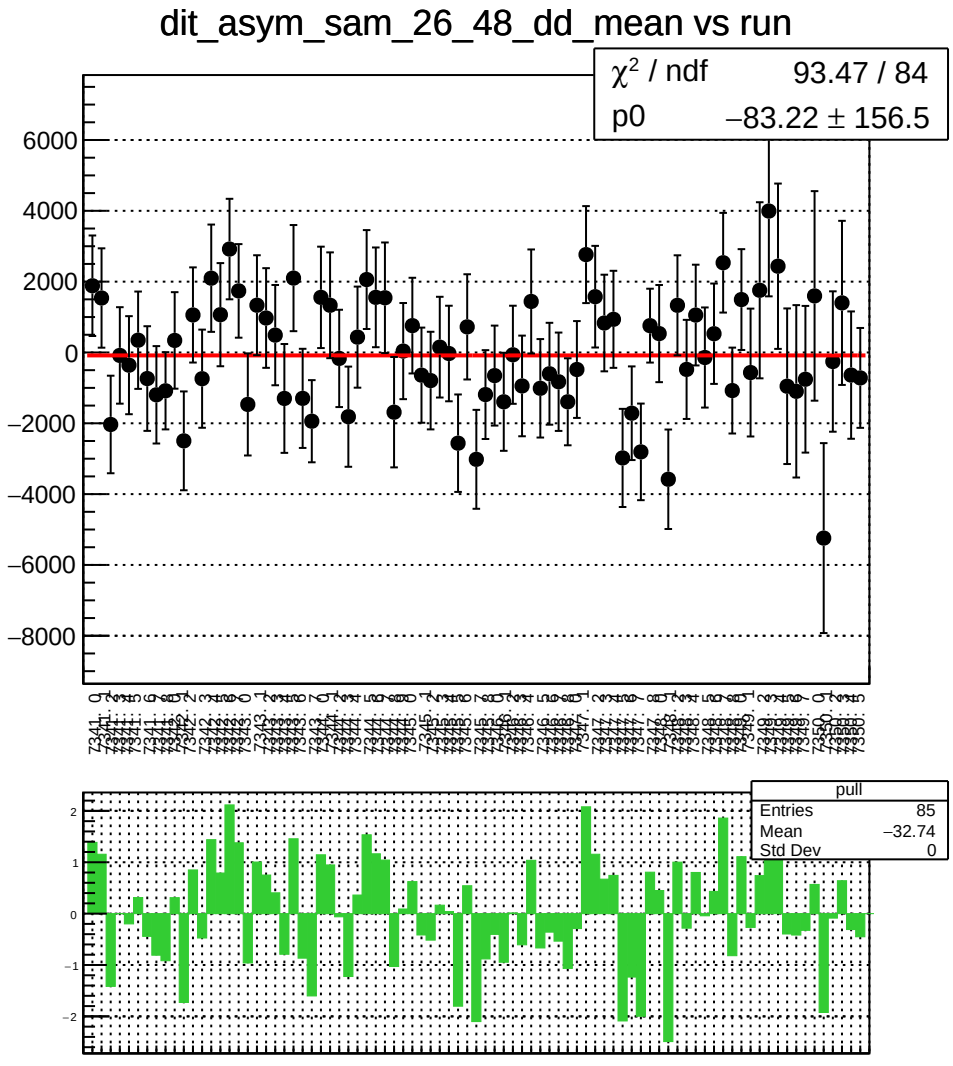

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 85.98 / 84
p0 −144 ± 119.6
pull
Entries 85
Mean 212
Std Dev 0

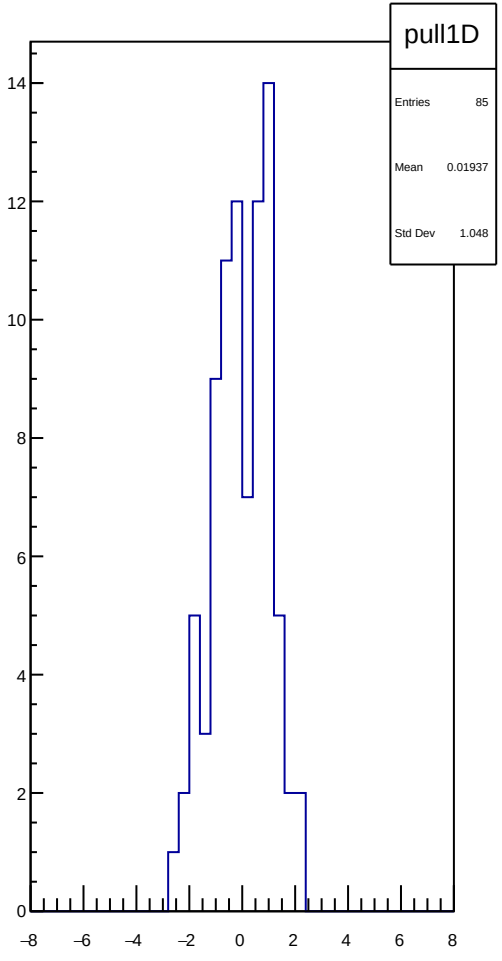

pull1D
Entries 85
Mean −0.006803
Std Dev 1.006

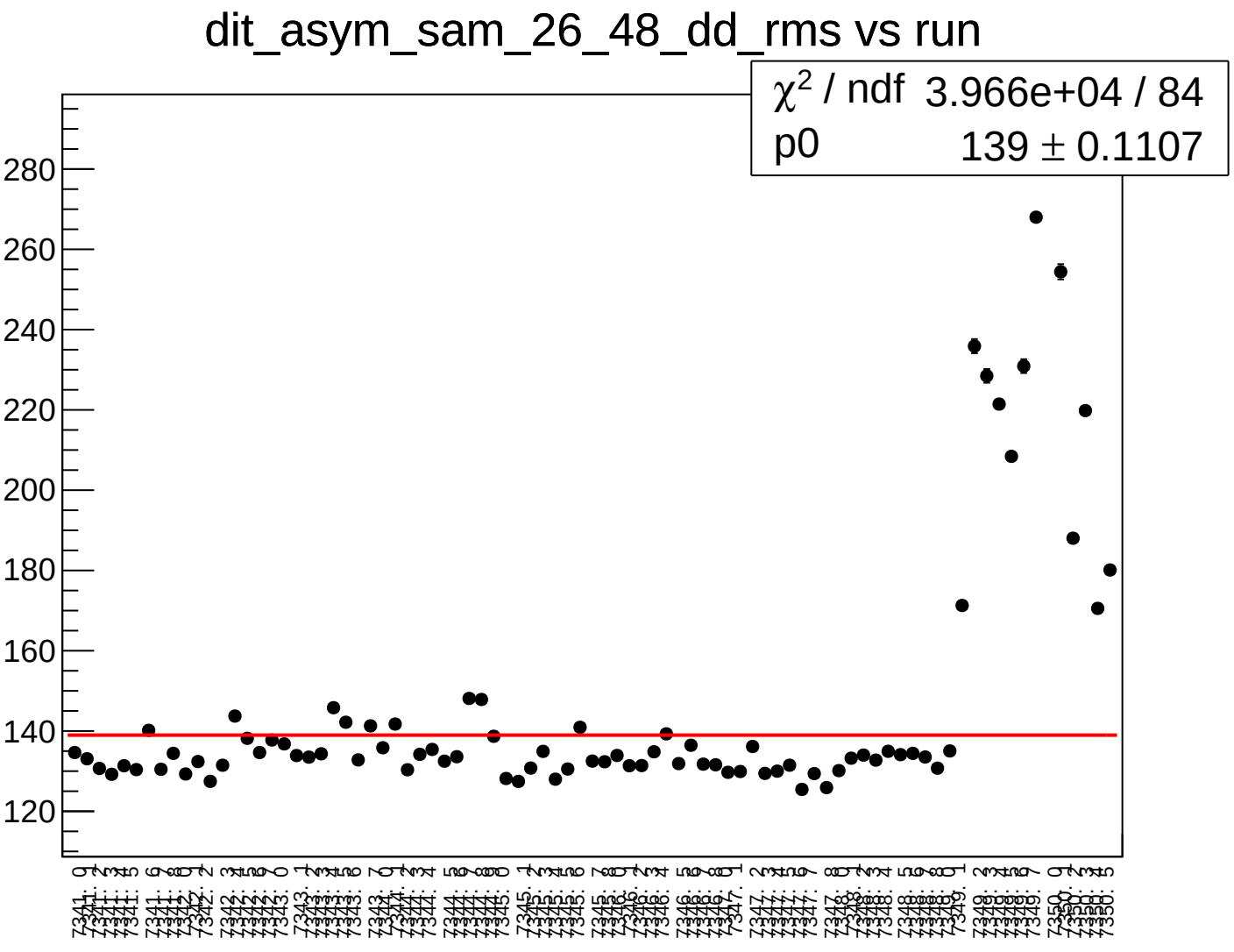

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1215 / 84
p0 107.5 ± 0.08459
118
116
114
112
110
108
106
104
102
100

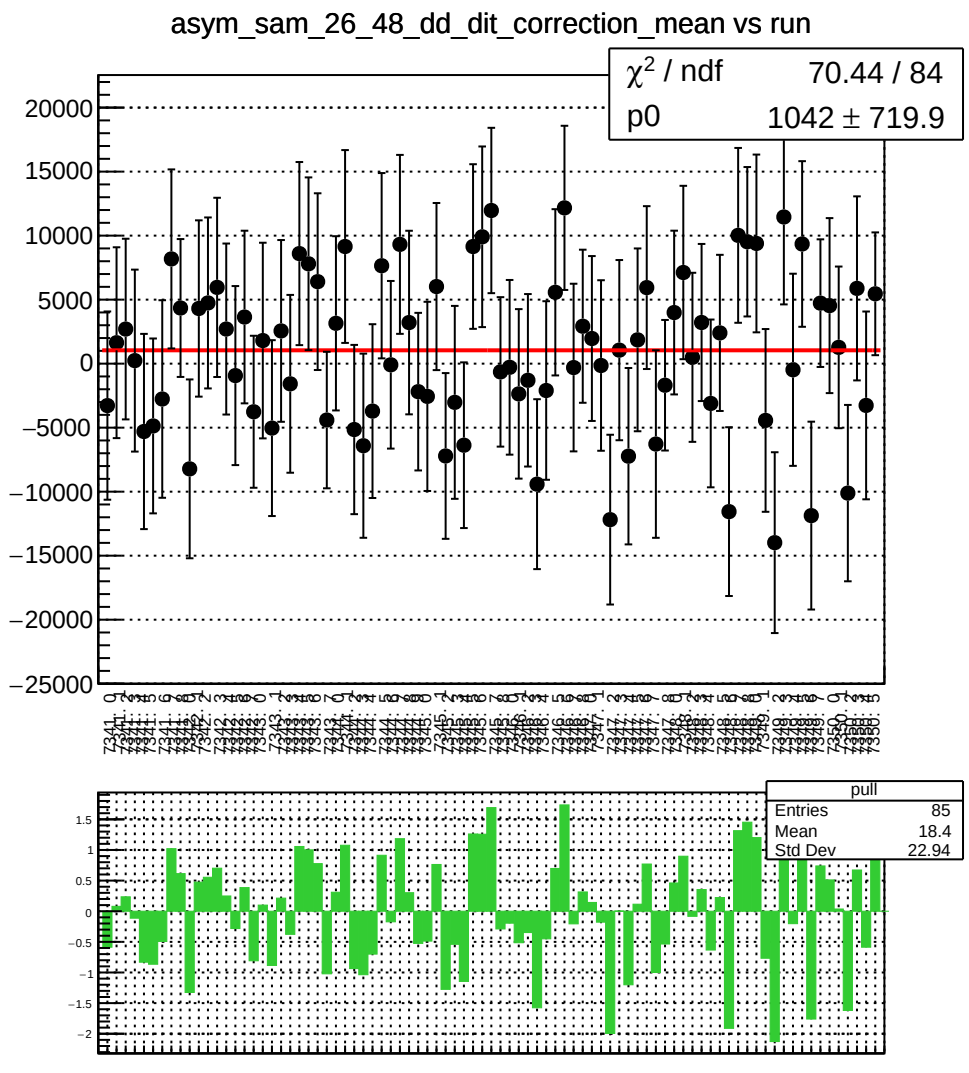

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.5 / 84
p0 970 ± 722.2
pull
Entries 85
Mean 23.17
Std Dev 16.36
pull1D
Entries 85
Mean −0.0175
Std Dev 0.9547

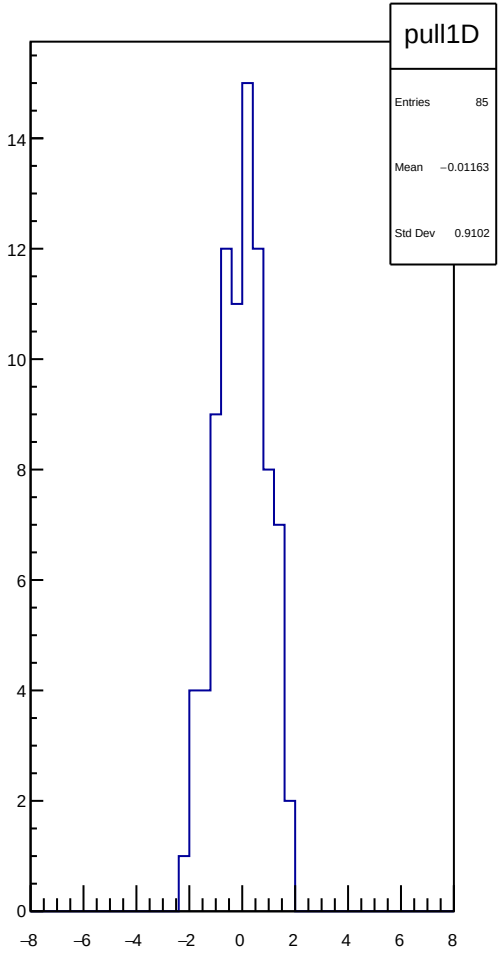

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 9697 / 84
p0 647.3 ± 0.5107
800
750
700
650
600
550
500

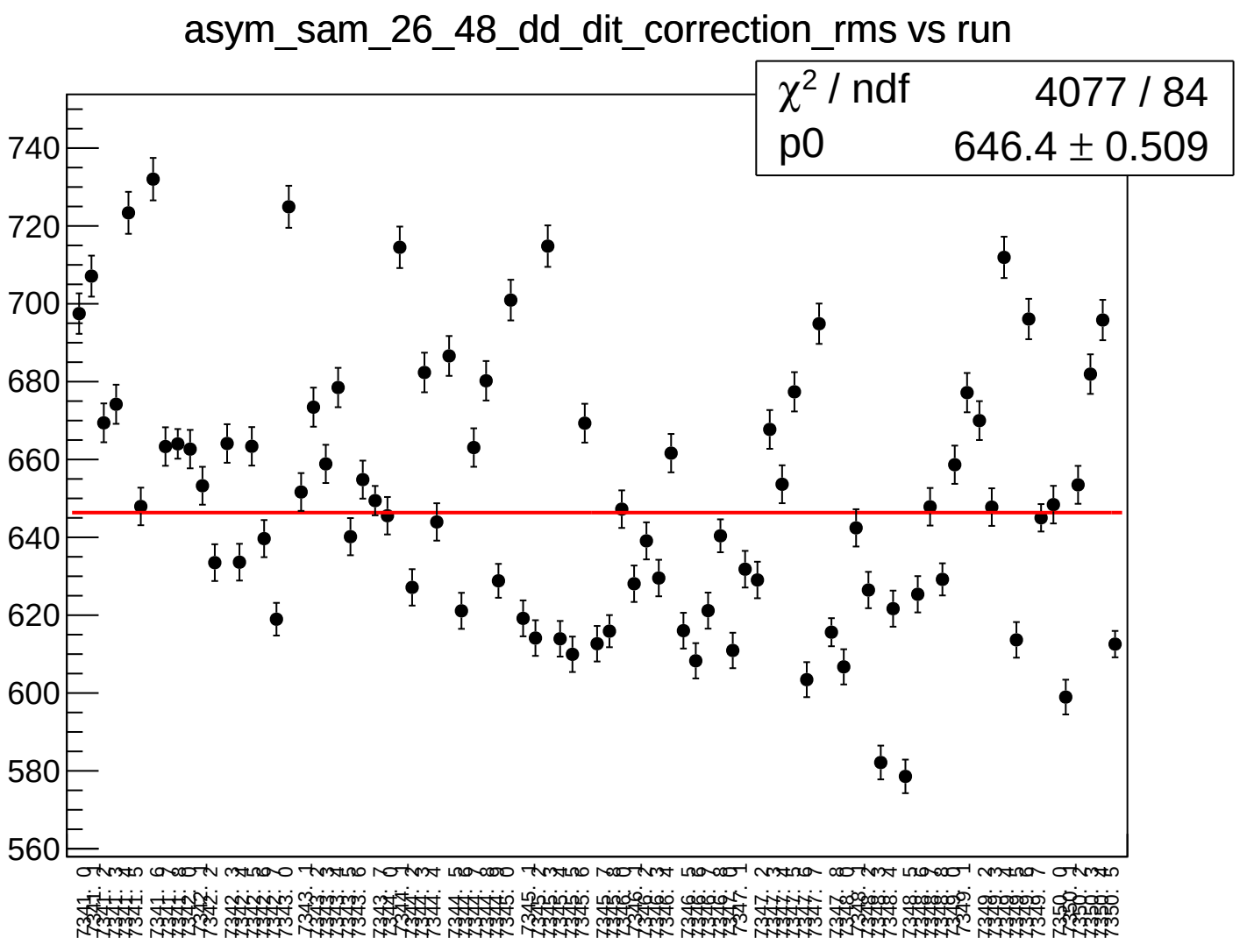

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 93.47 / 84
p0 −83.22 ± 156.5
pull
Entries 85
Mean −32.74
Std Dev 0

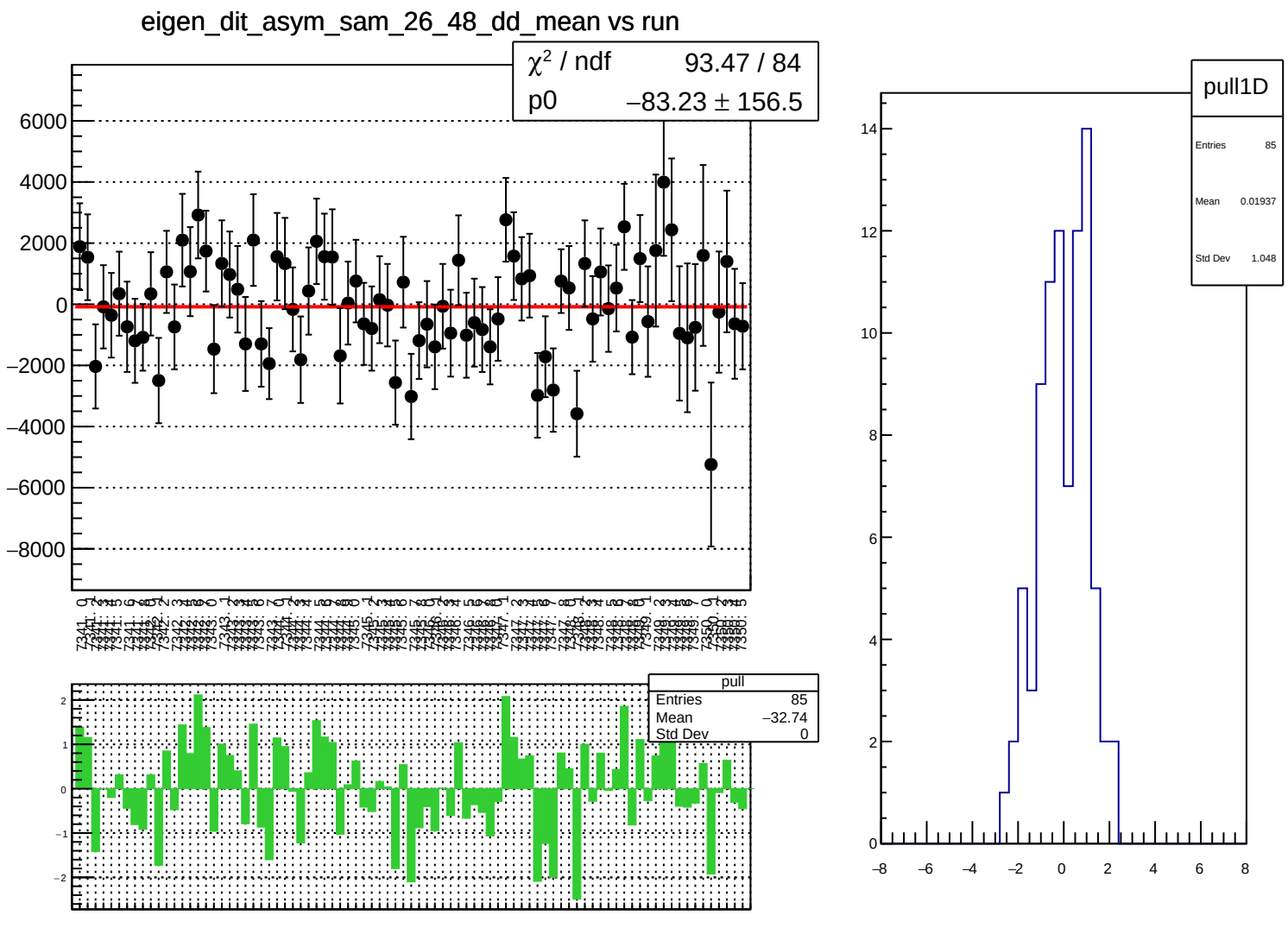

pull1D
Entries 85
Mean 0.01937
Std Dev 1.048

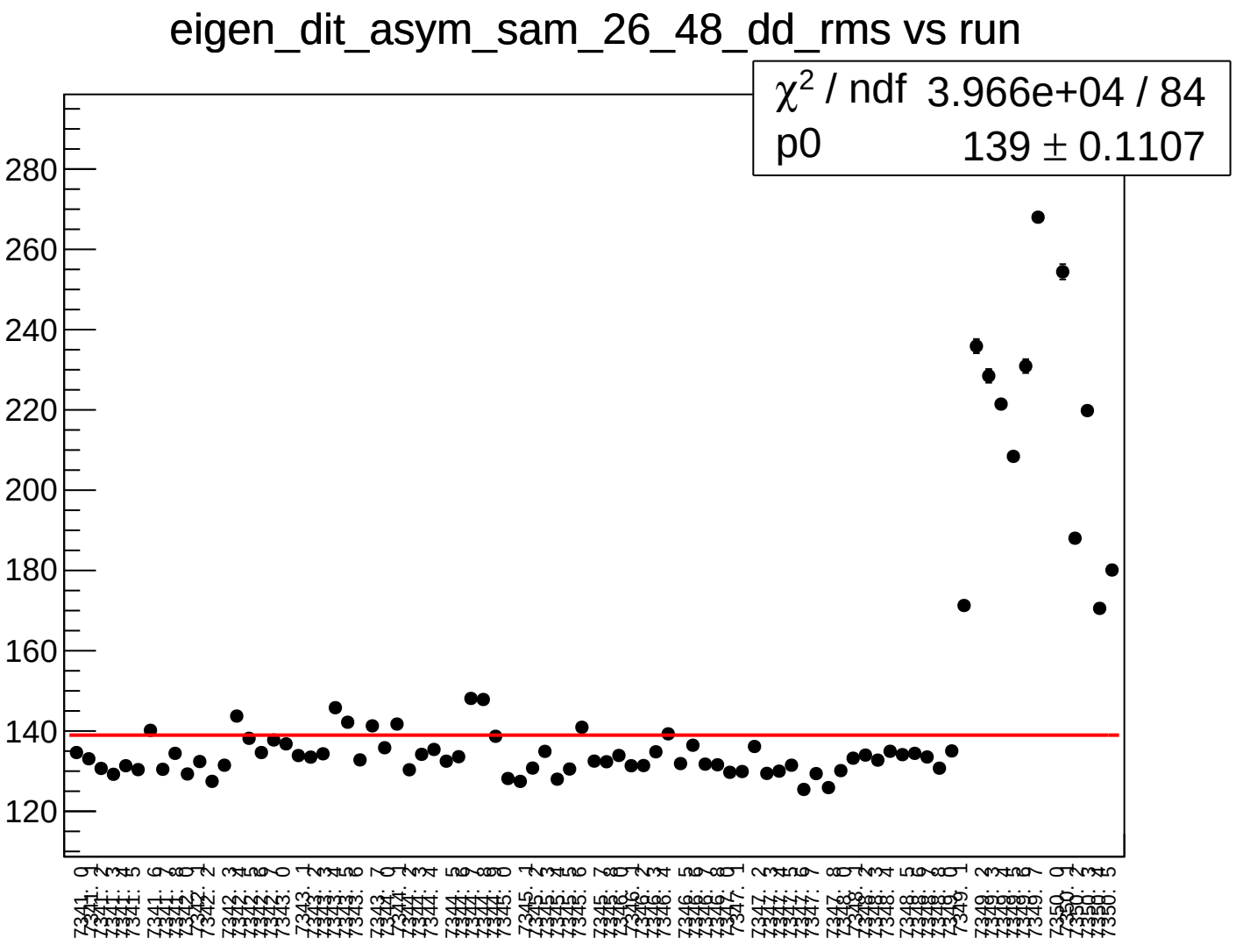

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 3.966e+04 / 84
p0 139 ± 0.1107
280
260
240
220
200
180
160
140
120

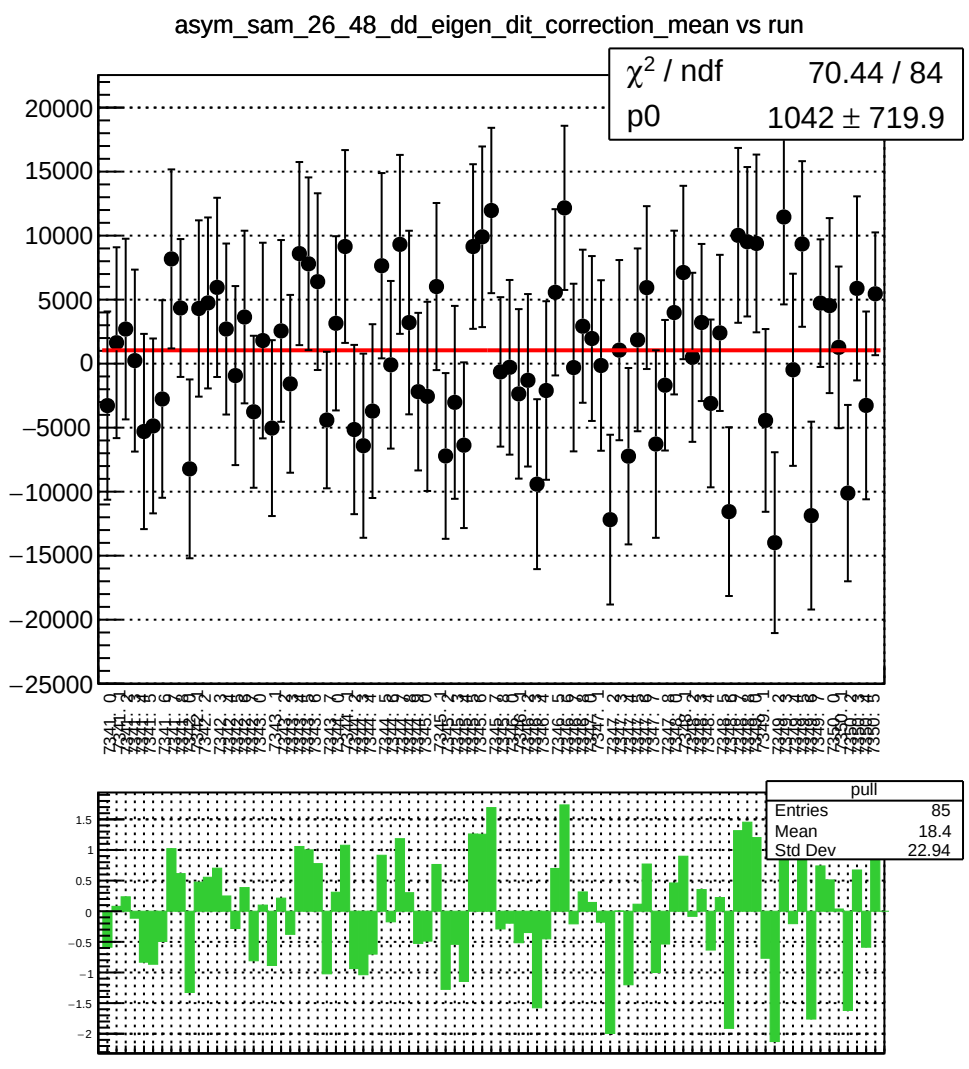

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 70.44 / 84
p0 1042 ± 719.9
pull
Entries 85
Mean 18.4
Std Dev 22.94

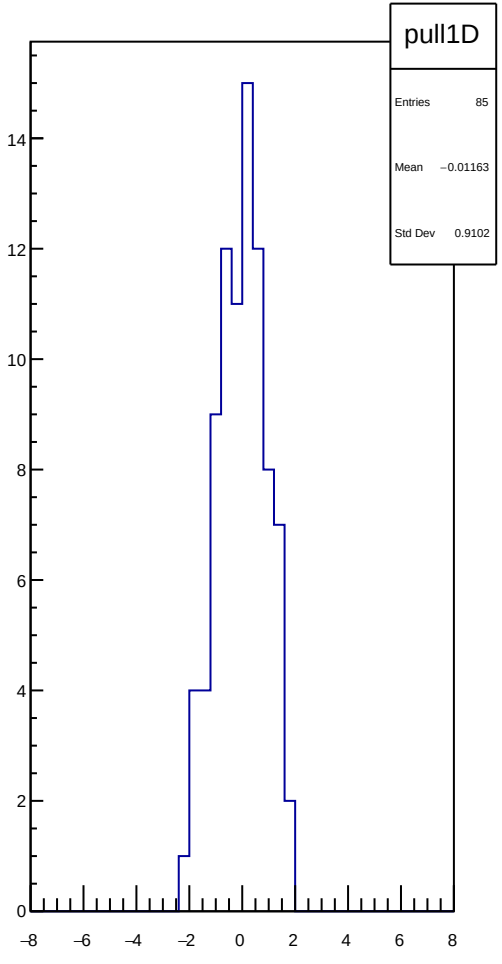

pull1D
Entries 85
Mean −0.01163
Std Dev 0.9102

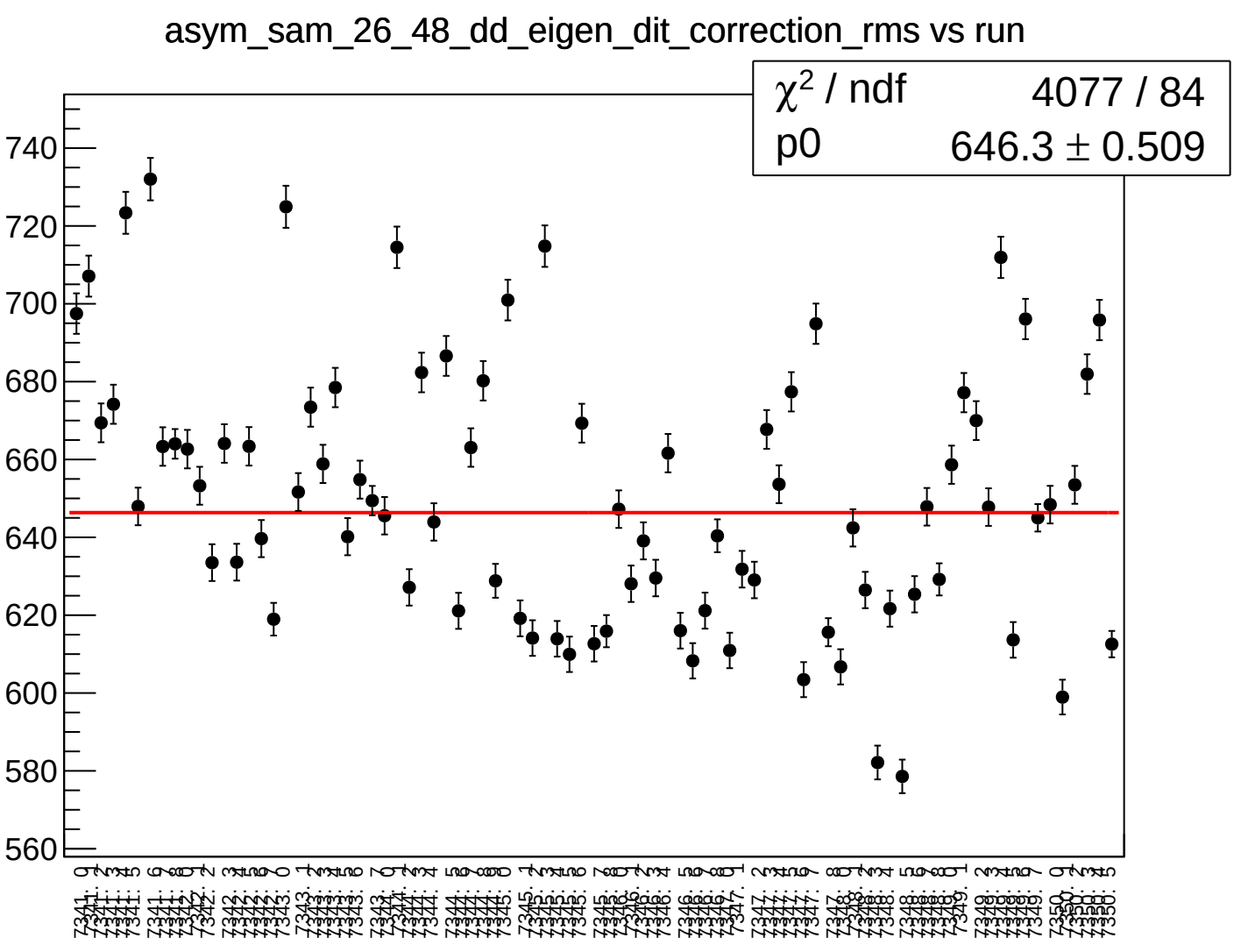

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 4077 / 84
p0 646.4 ± 0.509
740
720
700
680
660
640
620
600
580
560

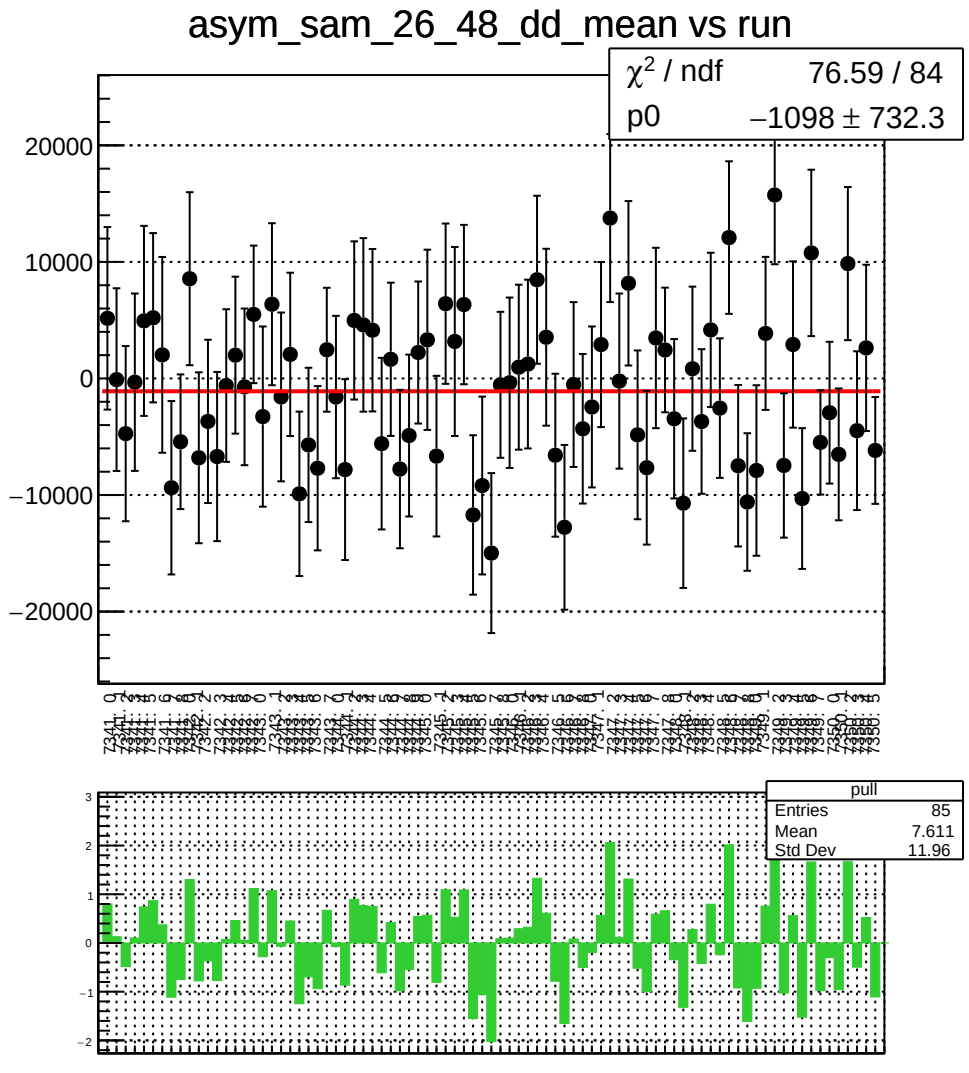

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 93.47 / 84
p0 −83.23 ± 156.5
pull
Entries 85
Mean −32.74
Std Dev 0
pull1D
Entries 85
Mean 0.01937
Std Dev 1.048

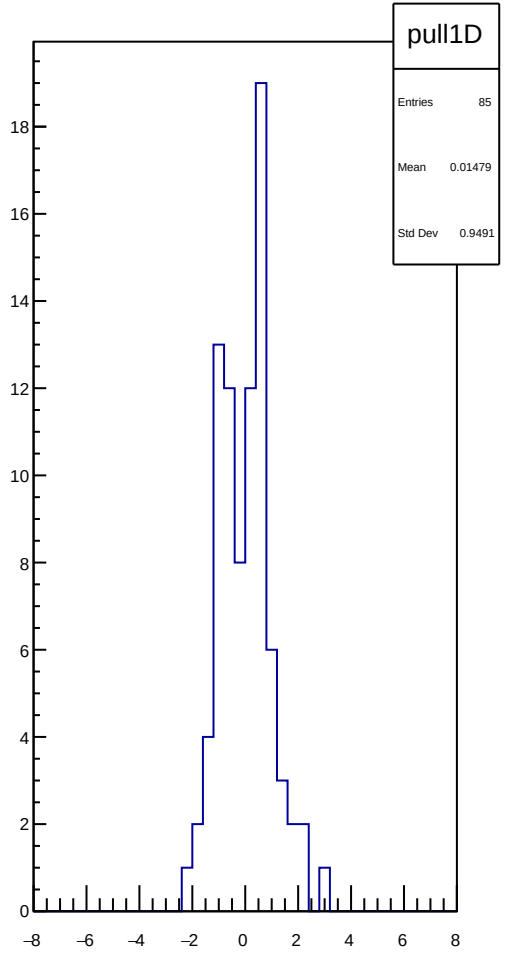

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 3.966e+04 / 84
p0 139 ± 0.1107
280
260
240
220
200
180
160
140
120

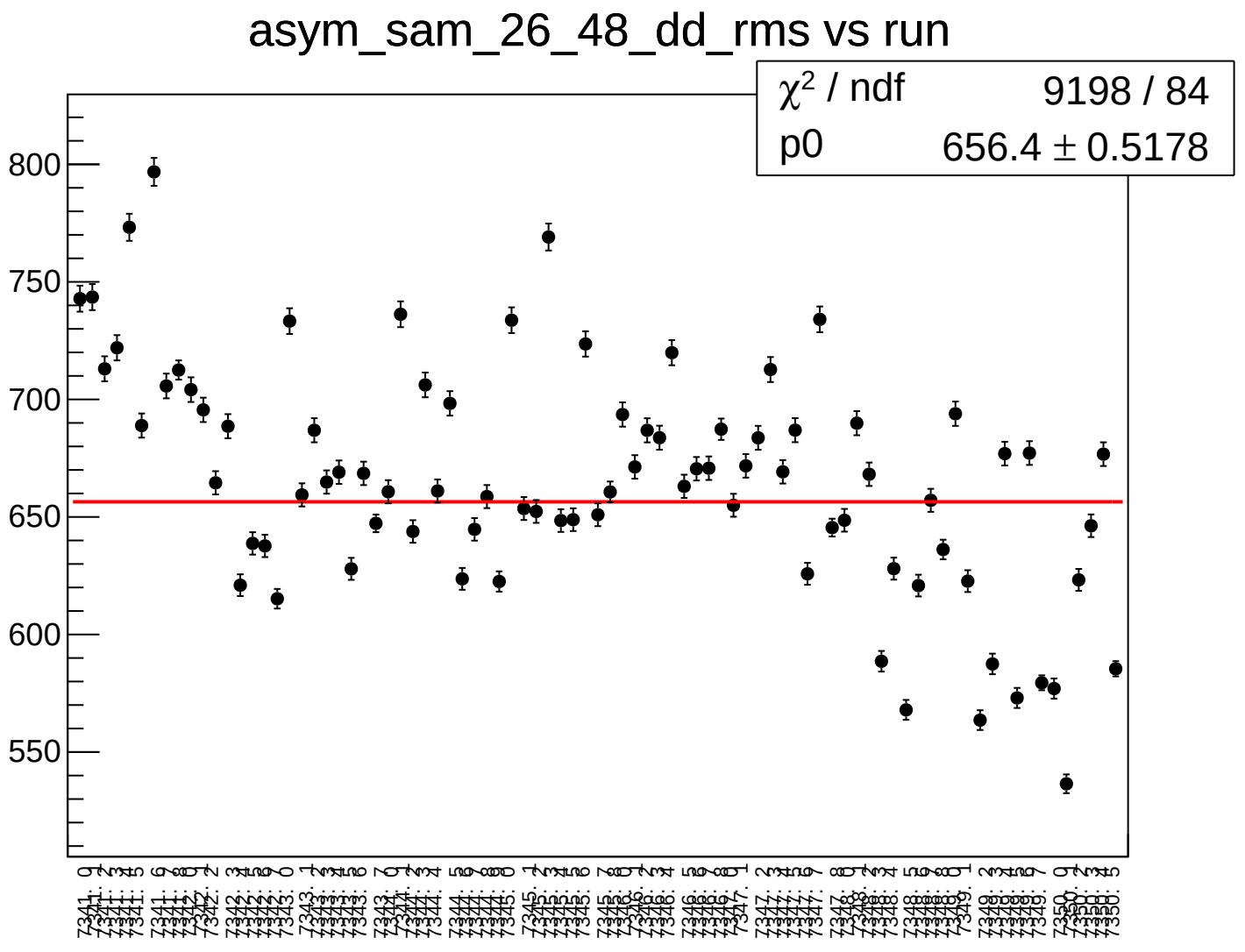

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.44 / 84
p0 1042 ± 719.9
pull
Entries 85
Mean 18.4
Std Dev 22.94

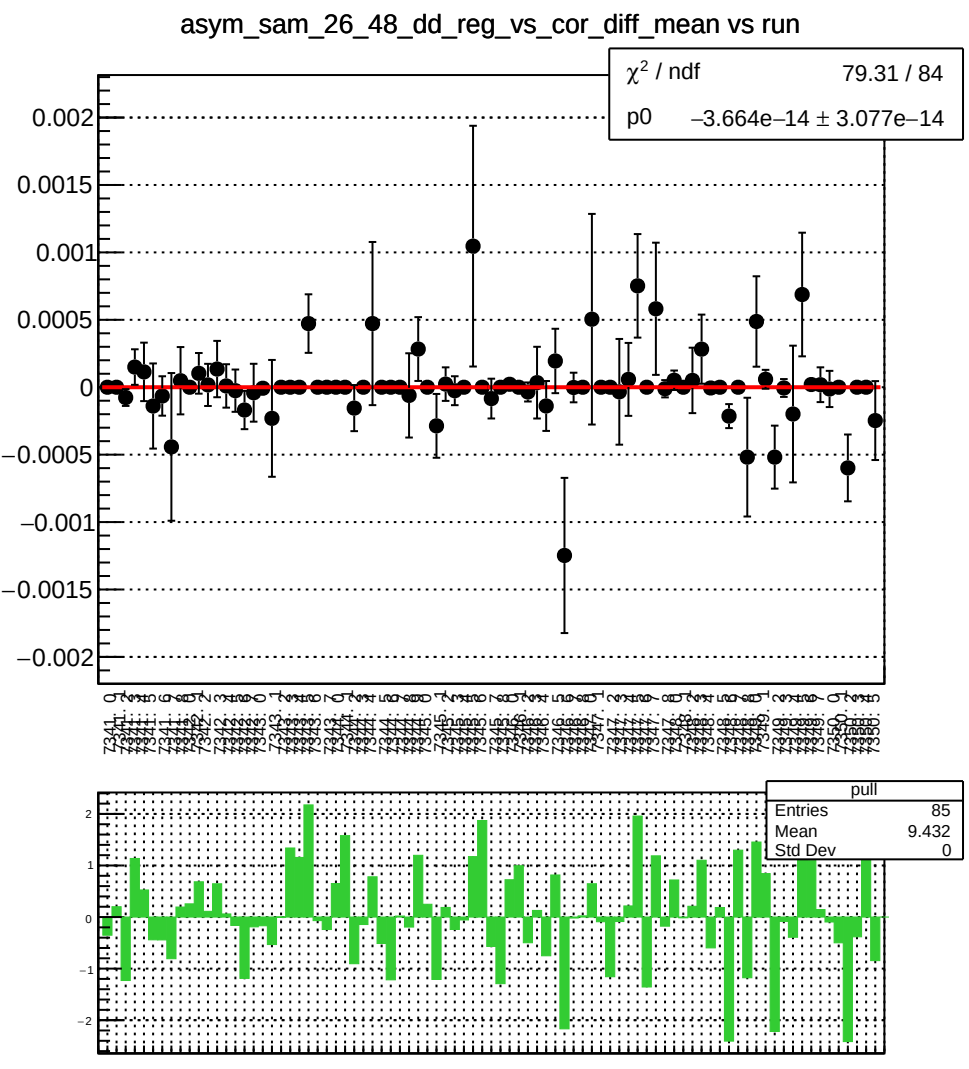

pull1D
Entries 85
Mean −0.01163
Std Dev 0.9102

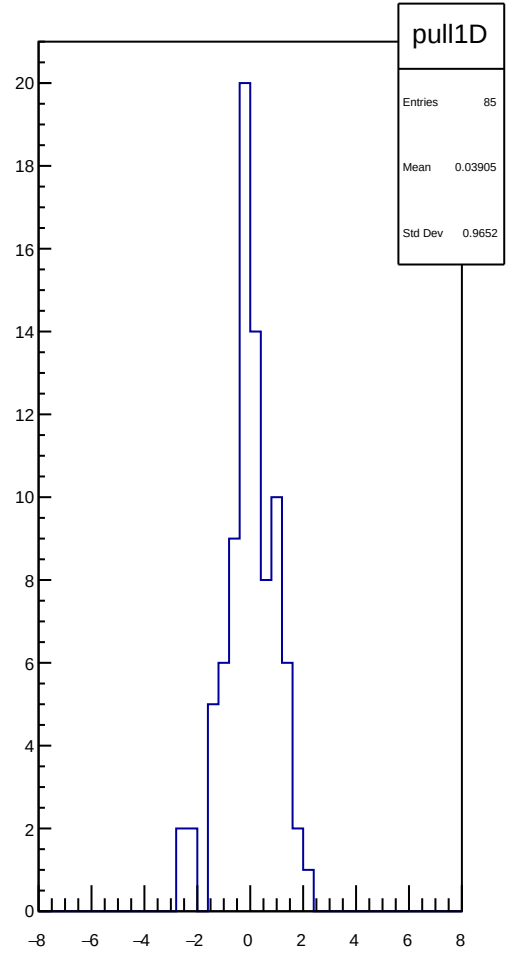

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4077 / 84
p0 646.3 ± 0.509
740
720
700
680
660
640
620
600
580
560

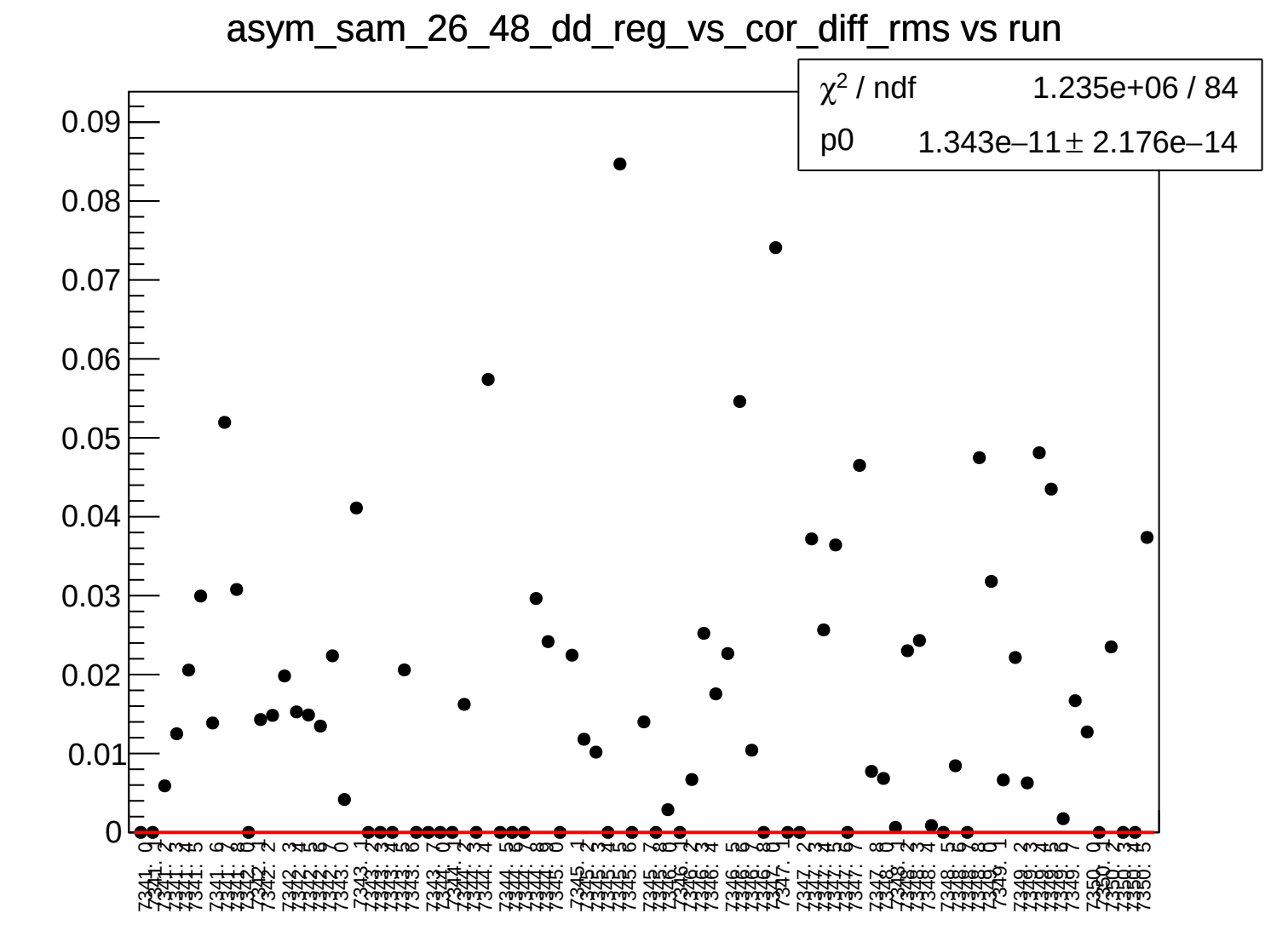

asym_sam_26_48_dd_mean vs run
χ² / ndf 76.59 / 84
p0 −1098 ± 732.3
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 7.611
Std Dev 11.96
3
2
1
0
−1
−2

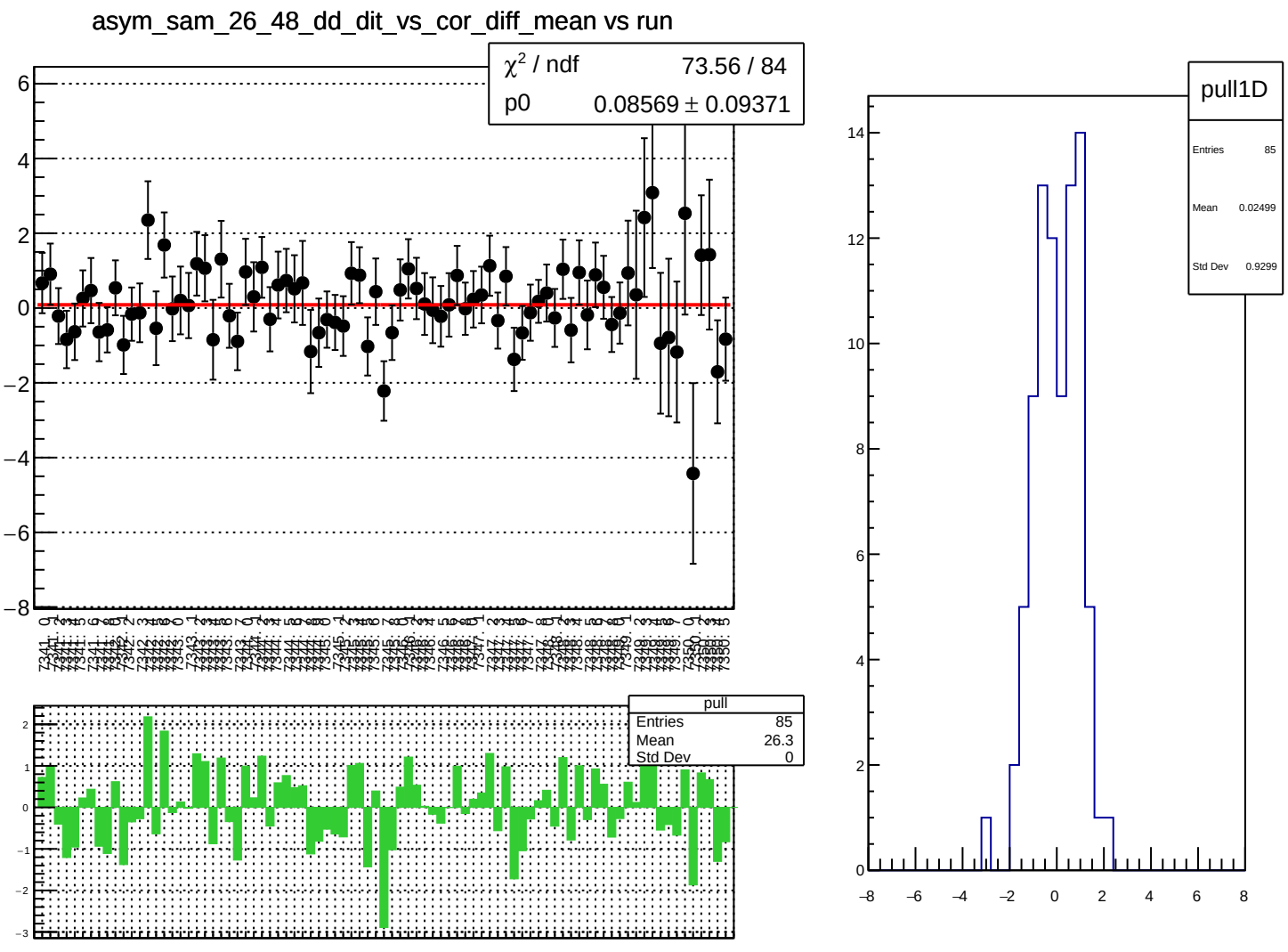

pull1D
Entries 85
Mean 0.01479
Std Dev 0.9491
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

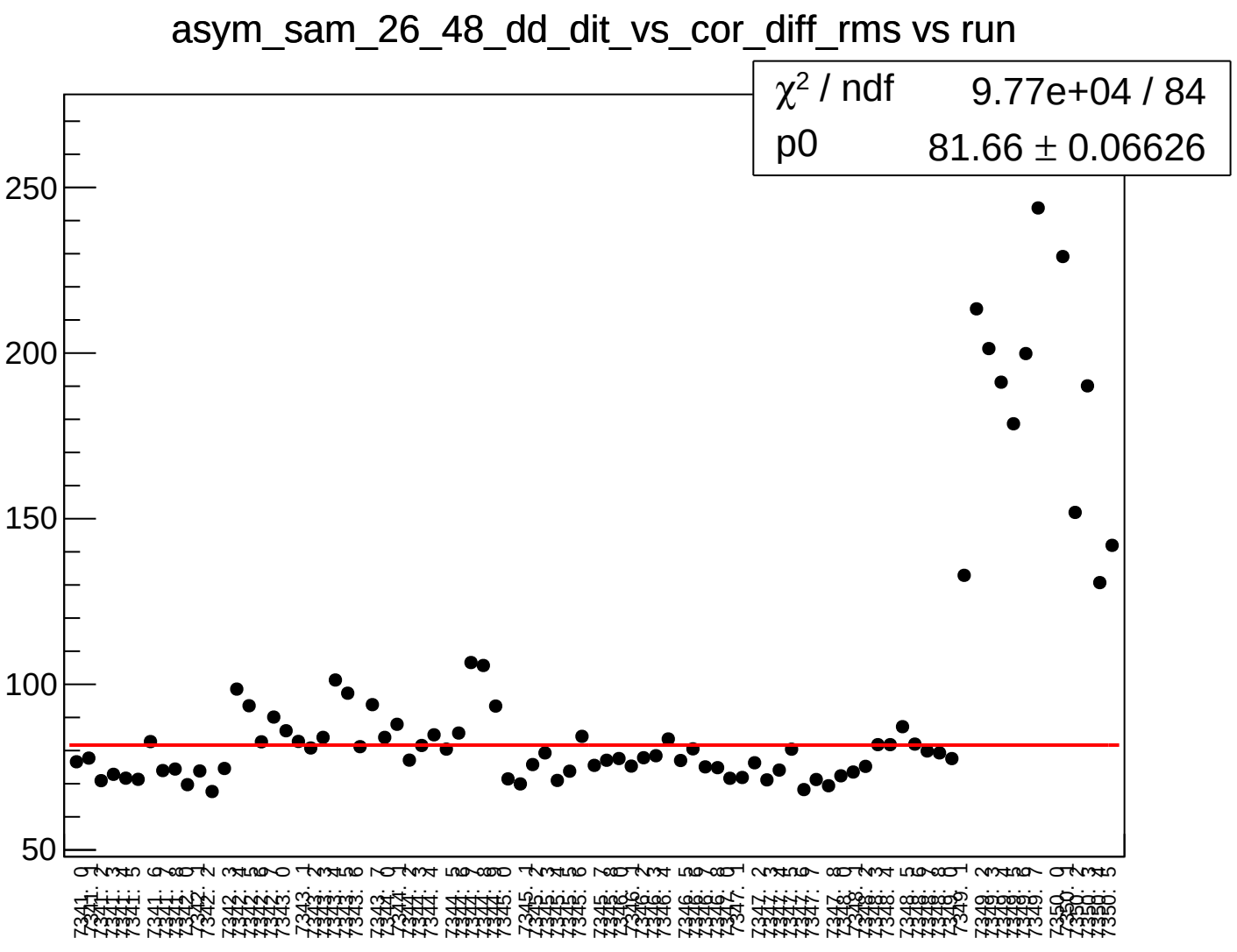

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 9198 / 84
p0 656.4 ± 0.5178
800
750
700
650
600
550

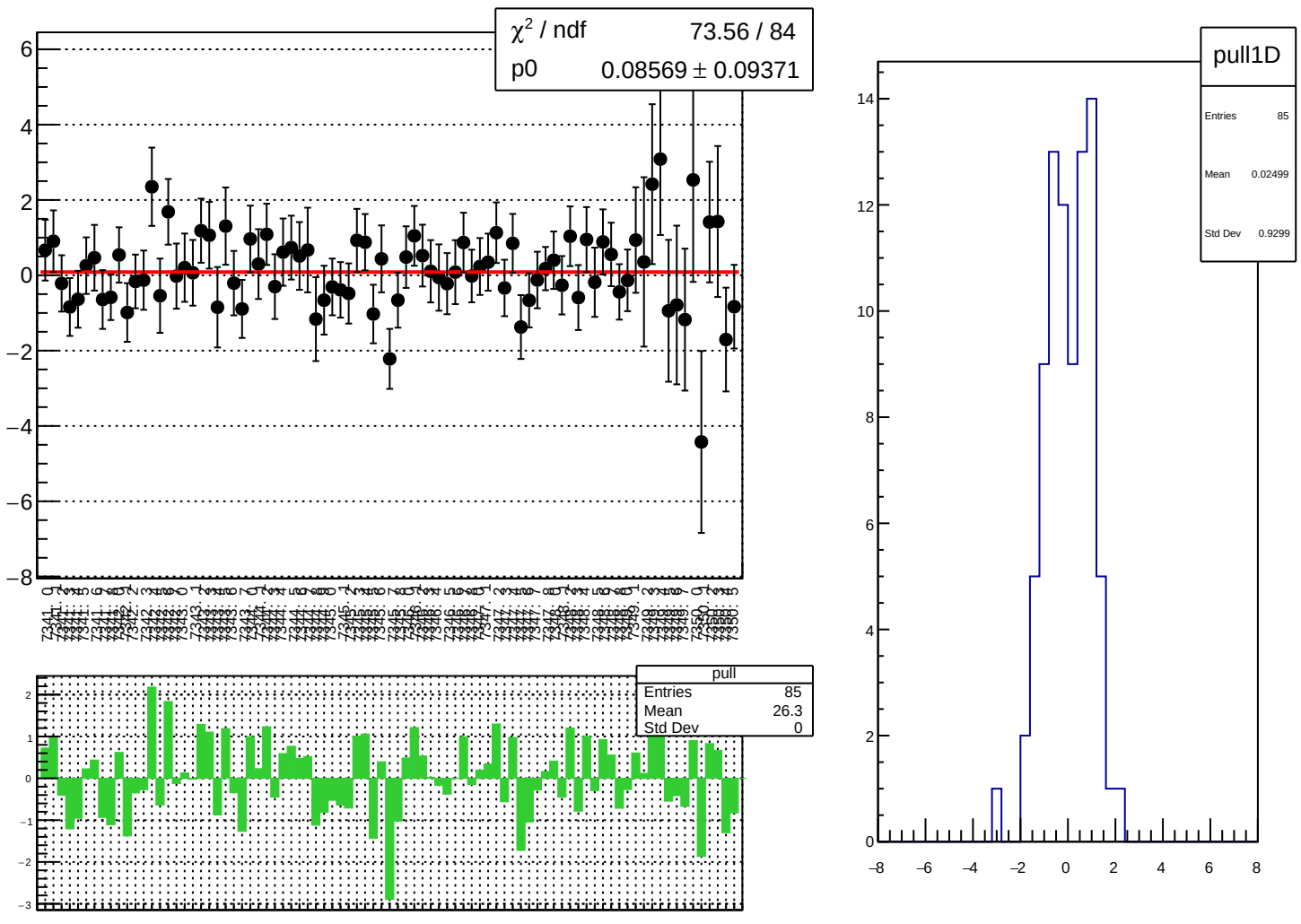

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.31 / 84
p0 −3.664e−14 ± 3.077e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 85
Mean 9.432
Std Dev 0
2
1
0
−1
−2

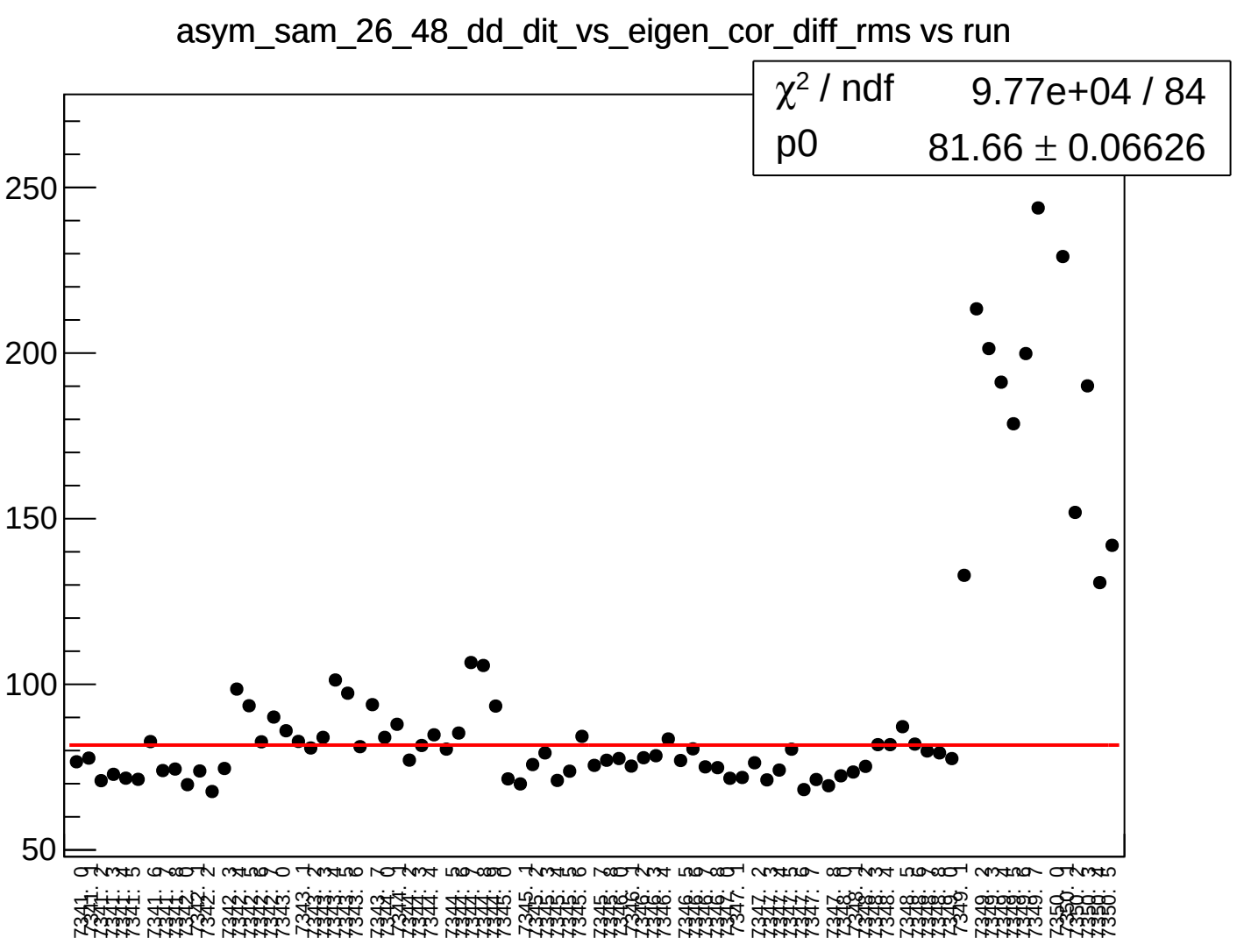

pull1D
Entries 85
Mean 0.03905
Std Dev 0.9652
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

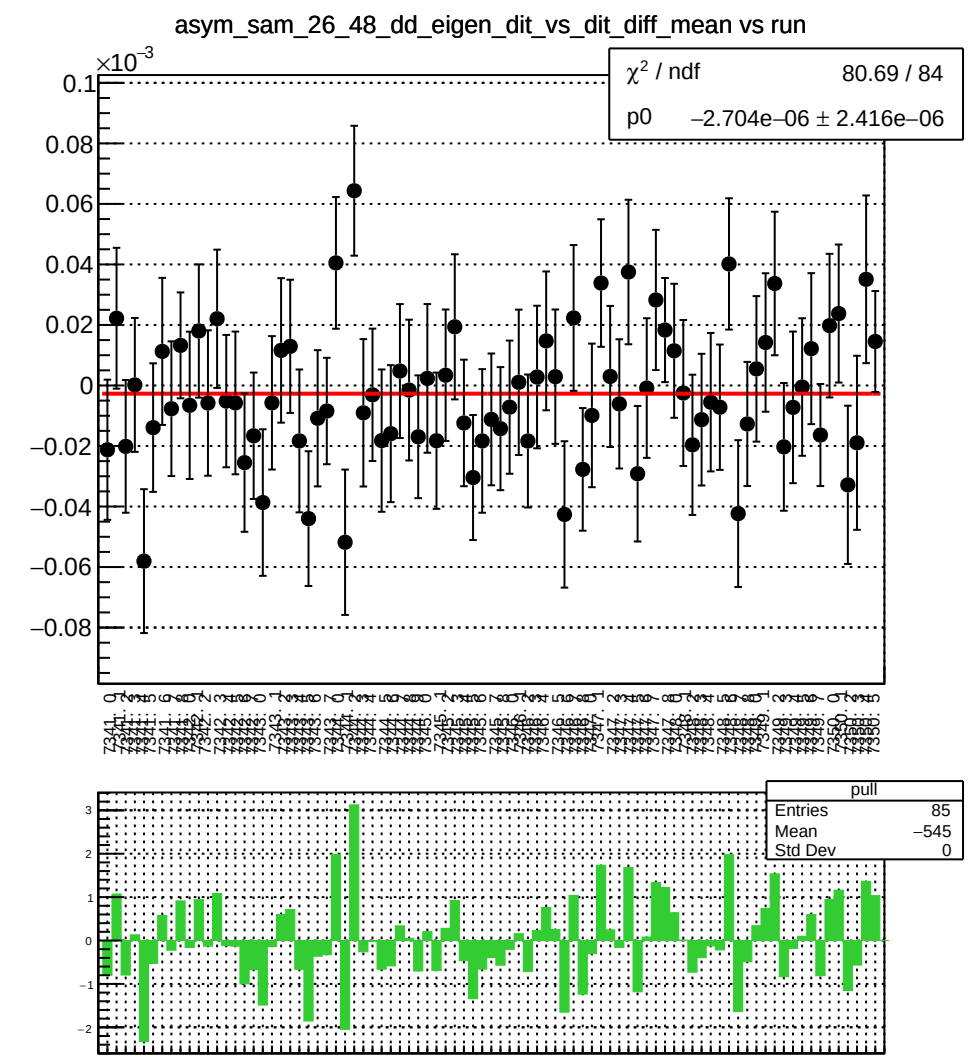

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.235e+06 / 84
p0 1.343e−11 ± 2.176e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

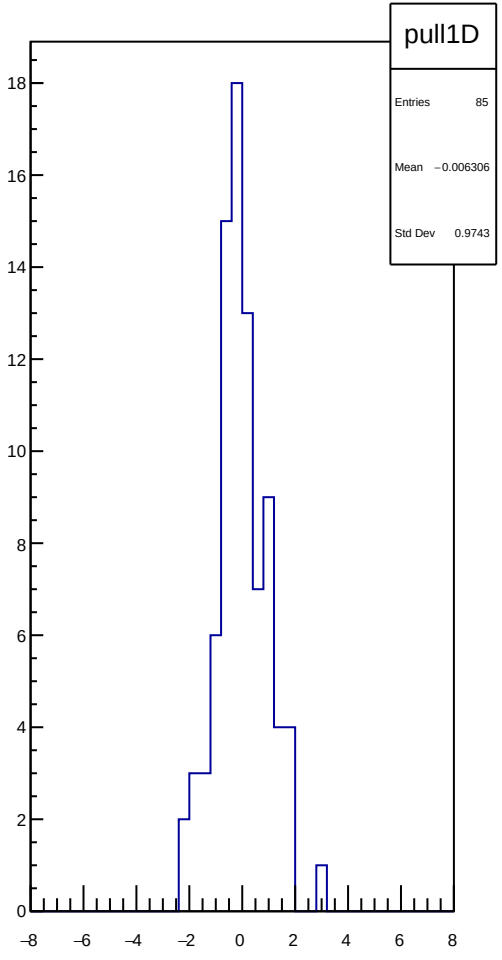

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.56 / 84
p0 0.08569 ± 0.09371
pull
Entries 85
Mean 26.3
Std Dev 0
pull1D
Entries 85
Mean 0.02499
Std Dev 0.9299

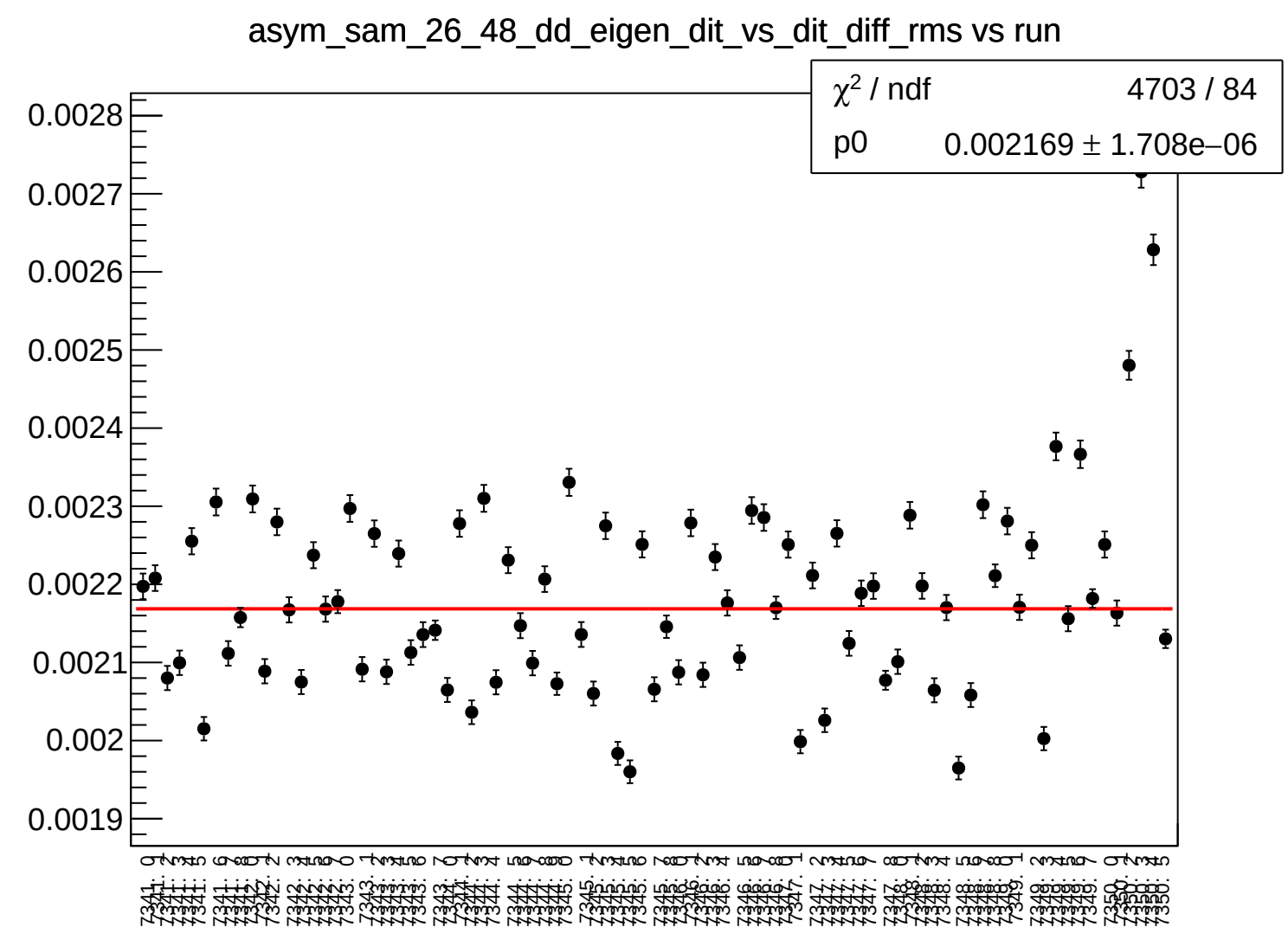

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.77e+04 / 84
p0 81.66 ± 0.06626
250
200
150
100
50

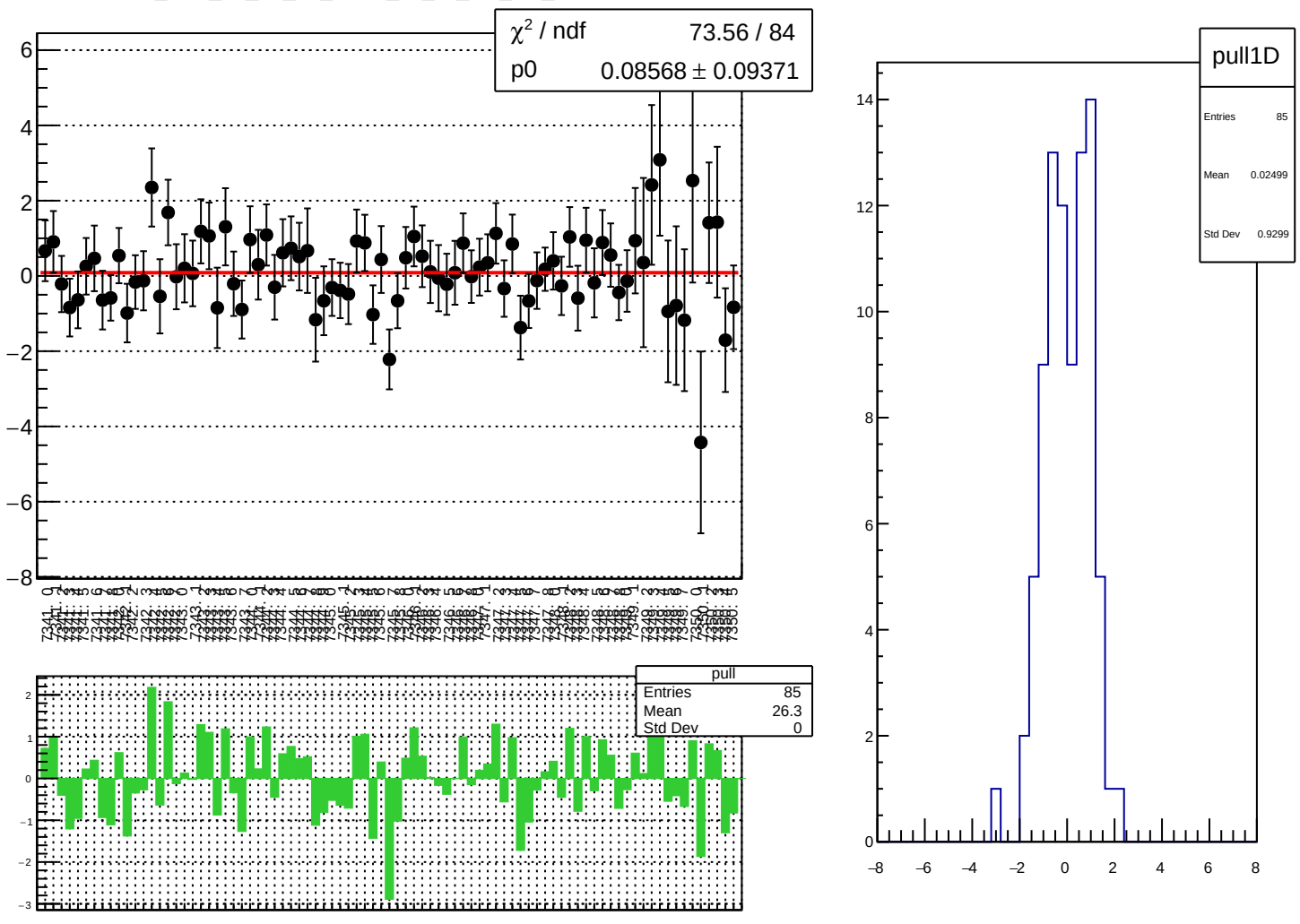

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.56 / 84
p0 0.08569 ± 0.09371
pull
Entries 85
Mean 26.3
Std Dev 0
pull1D
Entries 85
Mean 0.02499
Std Dev 0.9299

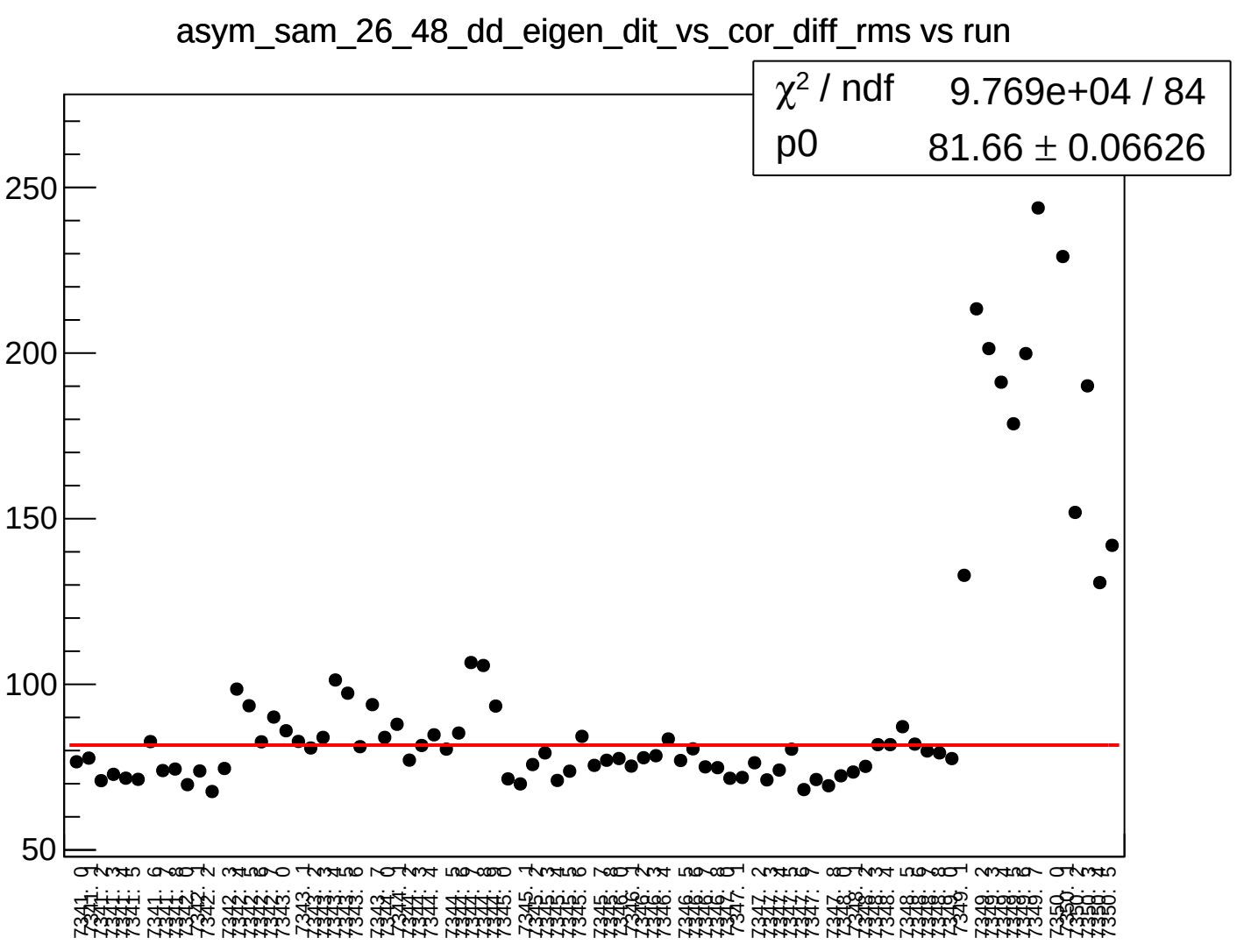

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.77e+04 / 84
p0 81.66 ± 0.06626
250
200
150
100
50

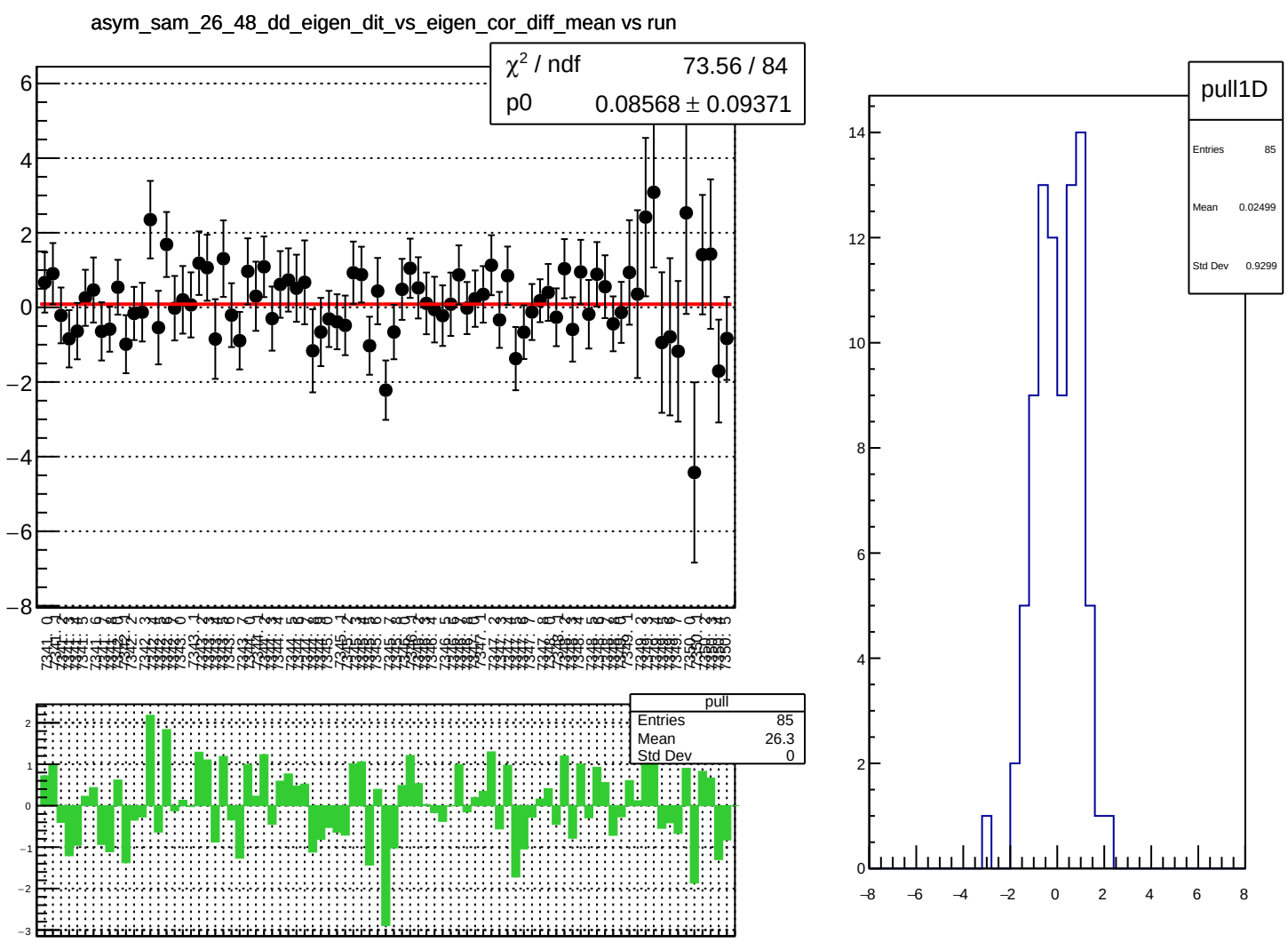

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.69 / 84
p0 −2.704e−06 ± 2.416e−06
pull
Entries 85
Mean −545
Std Dev 0

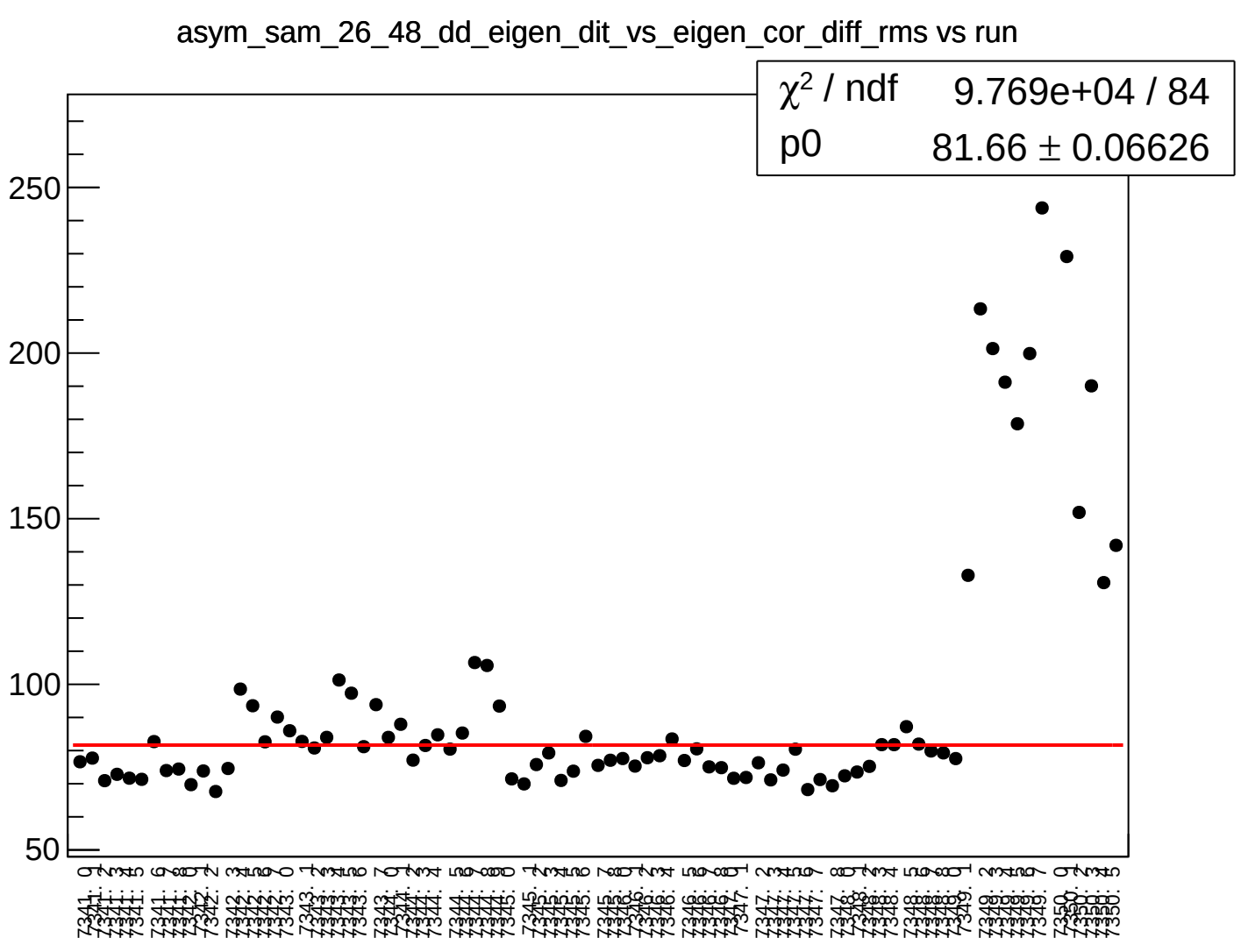

pull1D
Entries 85
Mean −0.006306
Std Dev 0.9743

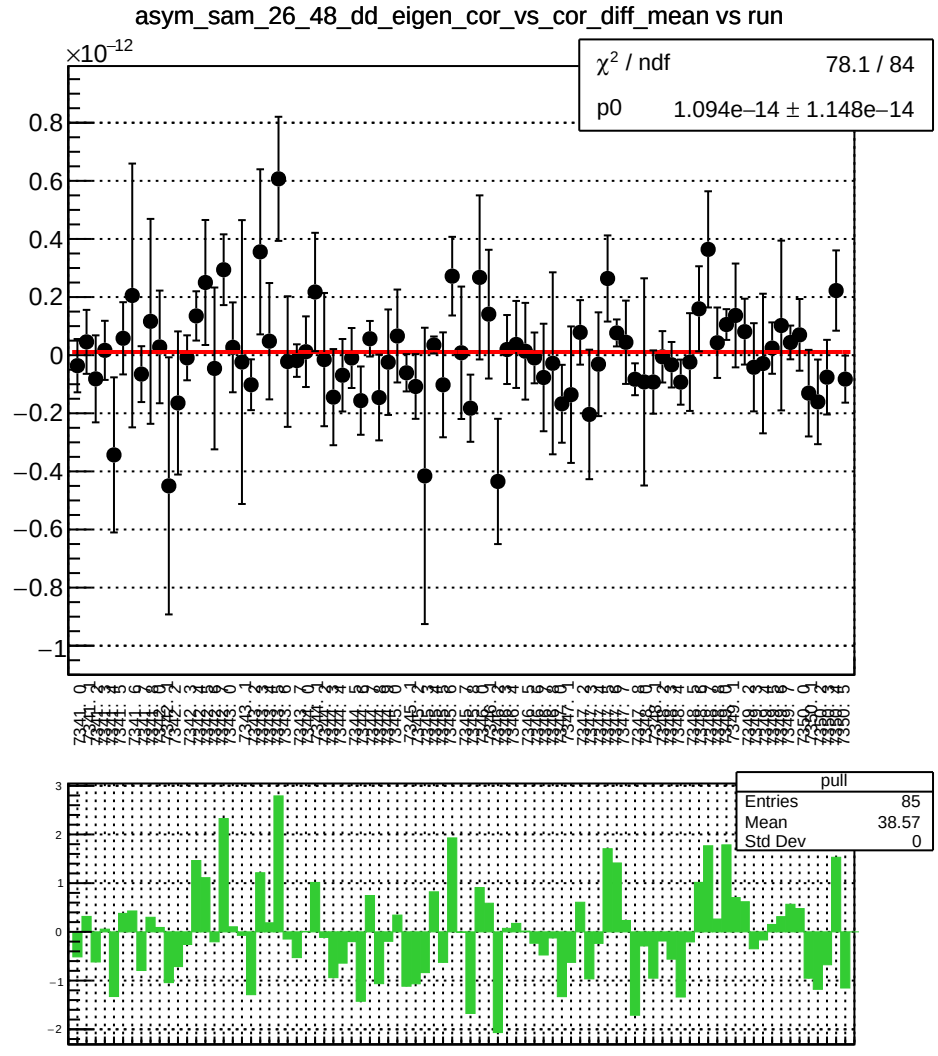

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4703 / 84
p0 0.002169 ± 1.708e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

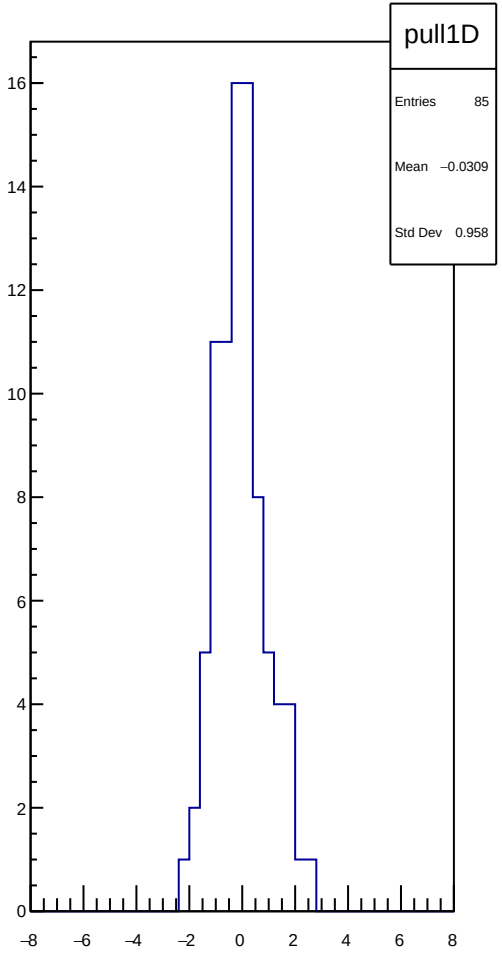

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.56 / 84
p0 0.08568 ± 0.09371
pull
Entries 85
Mean 26.3
Std Dev 0
pull1D
Entries 85
Mean 0.02499
Std Dev 0.9299

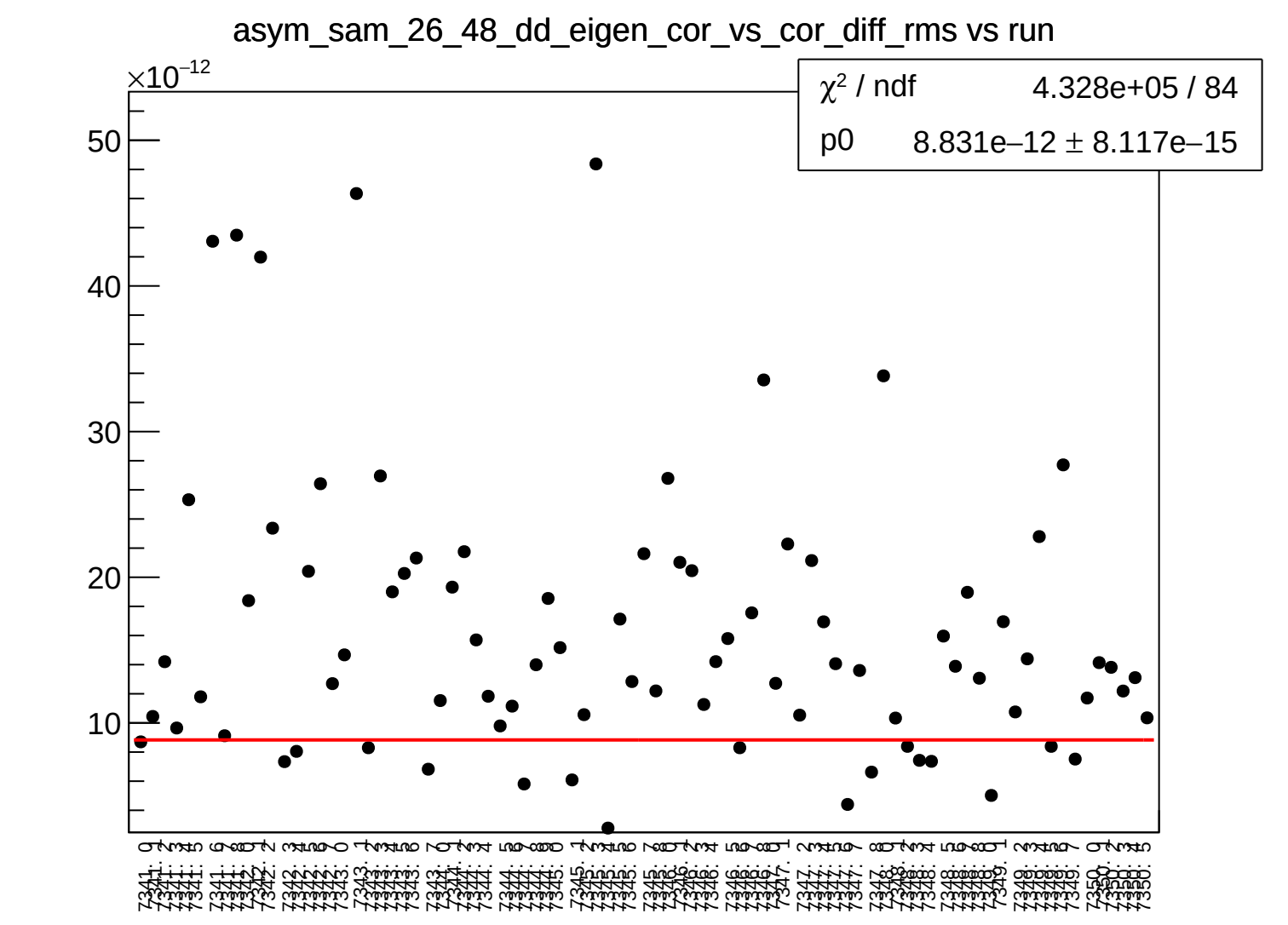

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.769e+04 / 84
p0 81.66 ± 0.06626
250
200
150
100
50

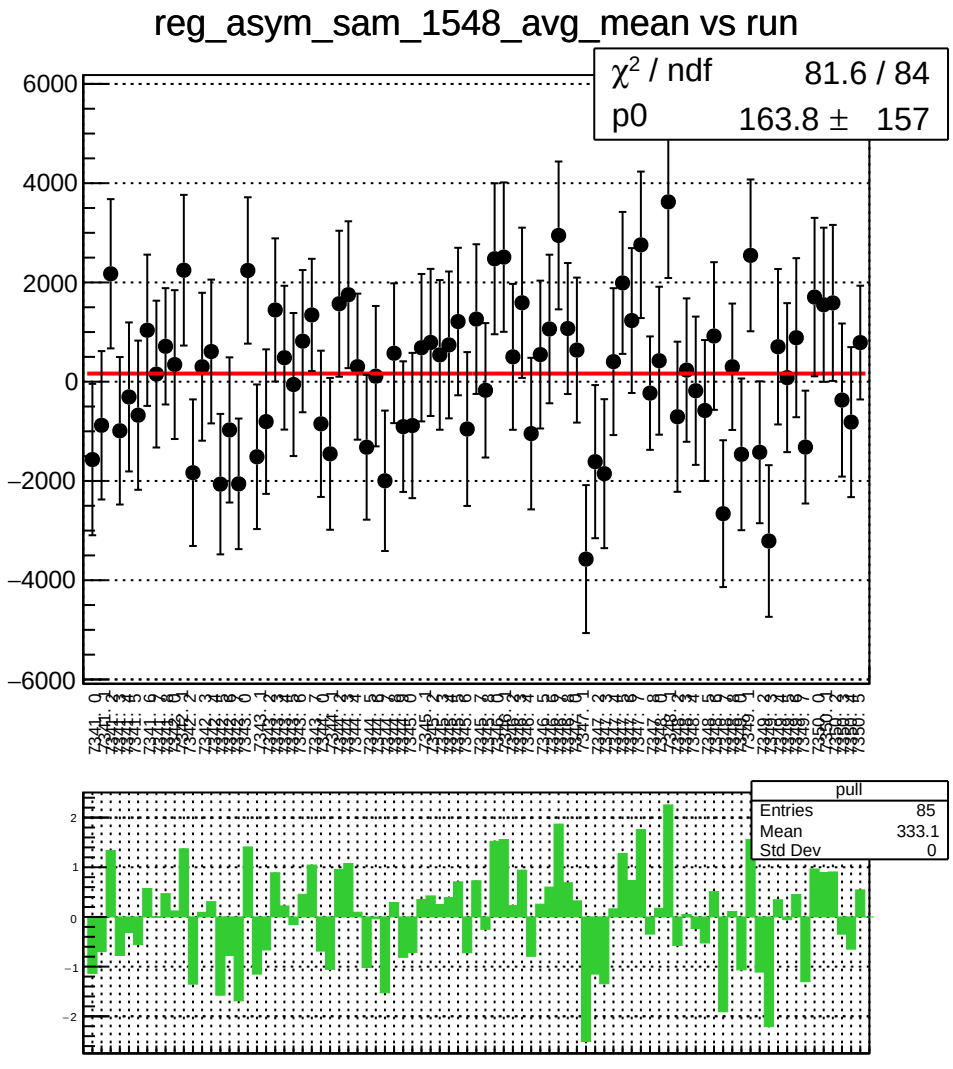

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.56 / 84
p0 0.08568 ± 0.09371
pull
Entries 85
Mean 26.3
Std Dev 0
pull1D
Entries 85
Mean 0.02499
Std Dev 0.9299

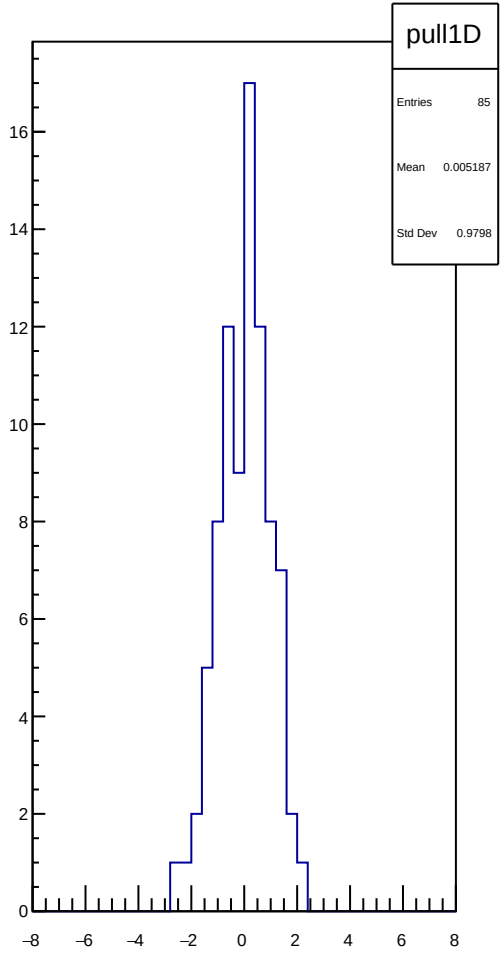

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.769e+04 / 84
p0 81.66 ± 0.06626
250
200
150
100
50

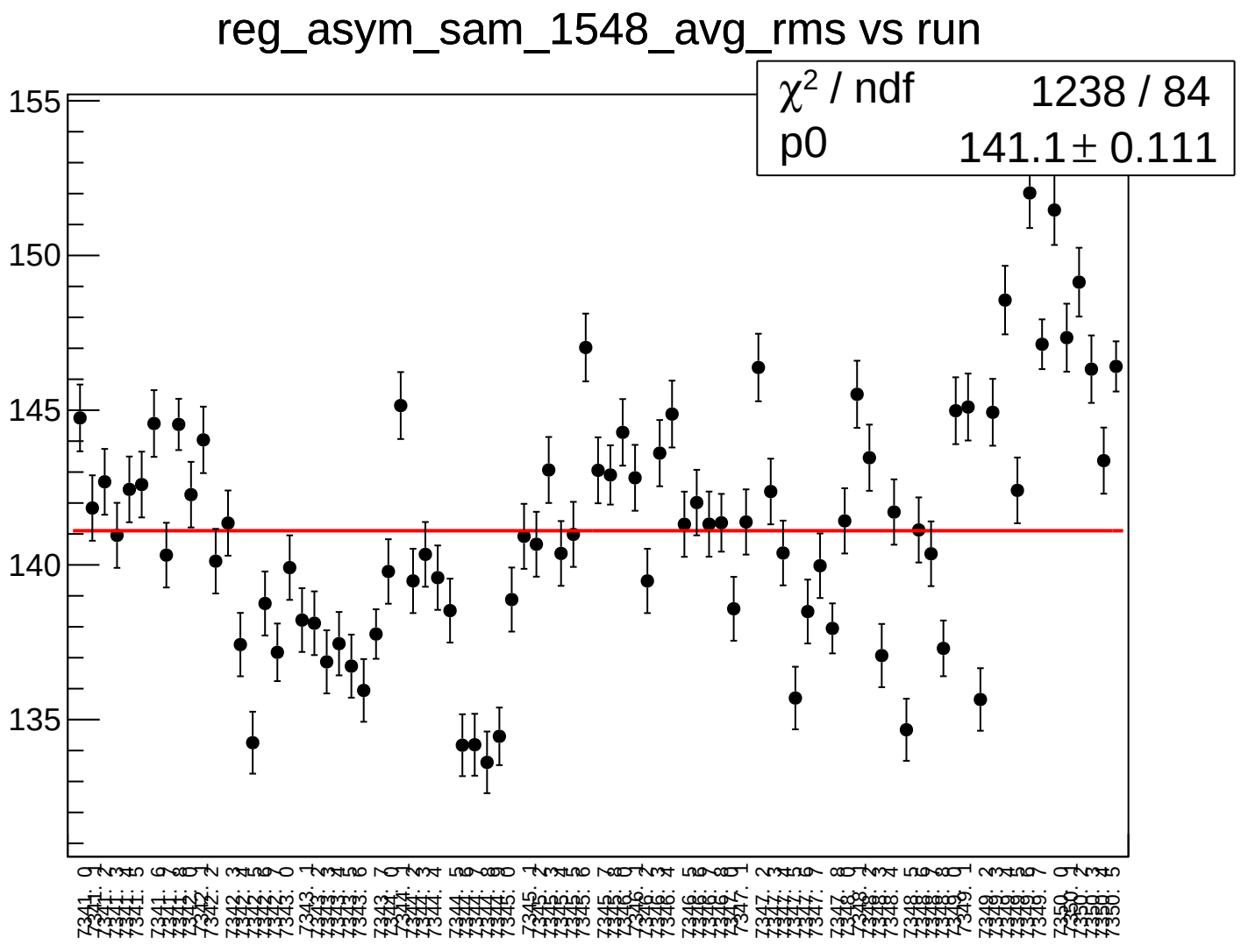

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.1 / 84
p0 1.094e−14 ± 1.148e−14
pull
Entries 85
Mean 38.57
Std Dev 0

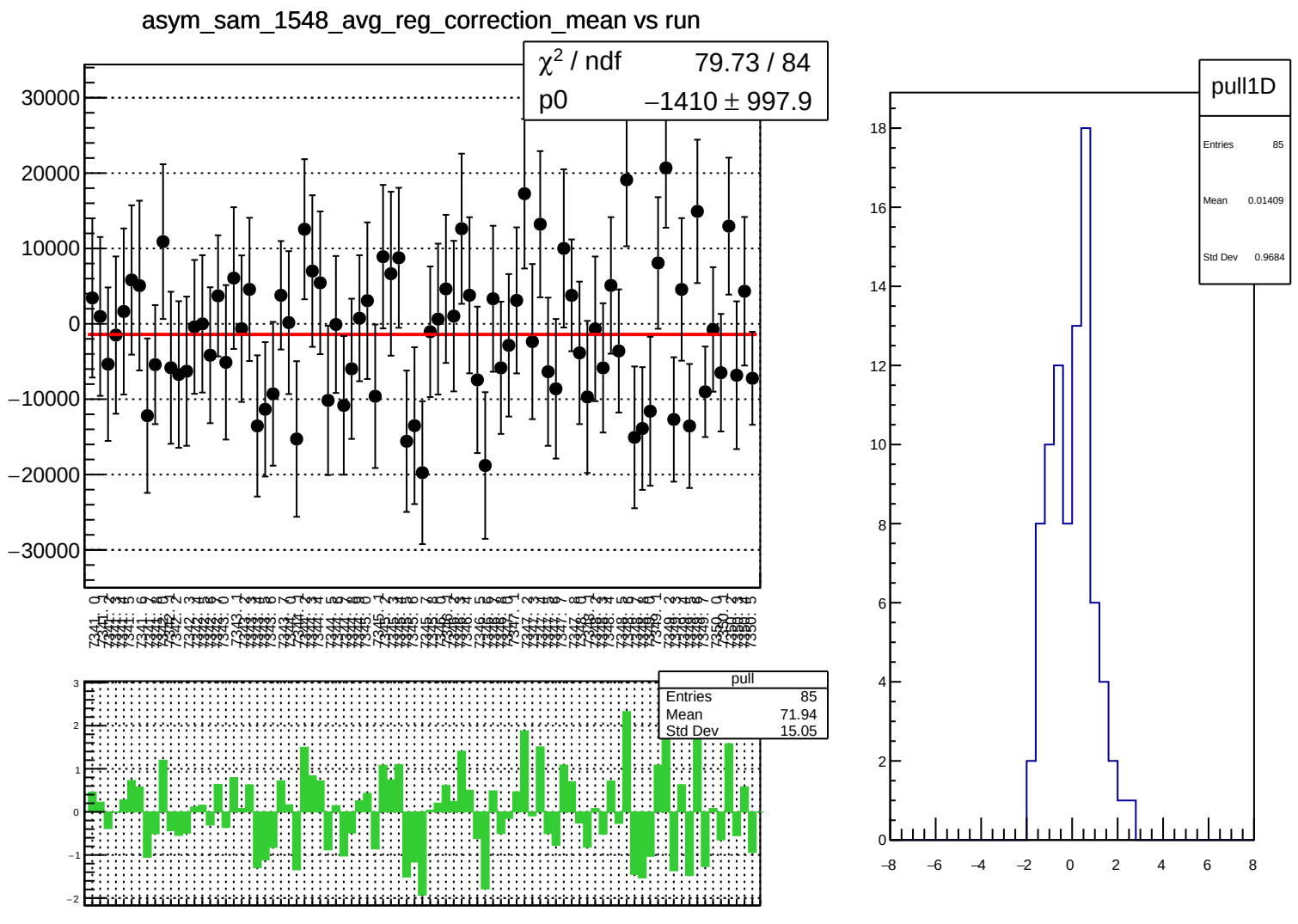

pull1D
Entries 85
Mean −0.0309
Std Dev 0.958

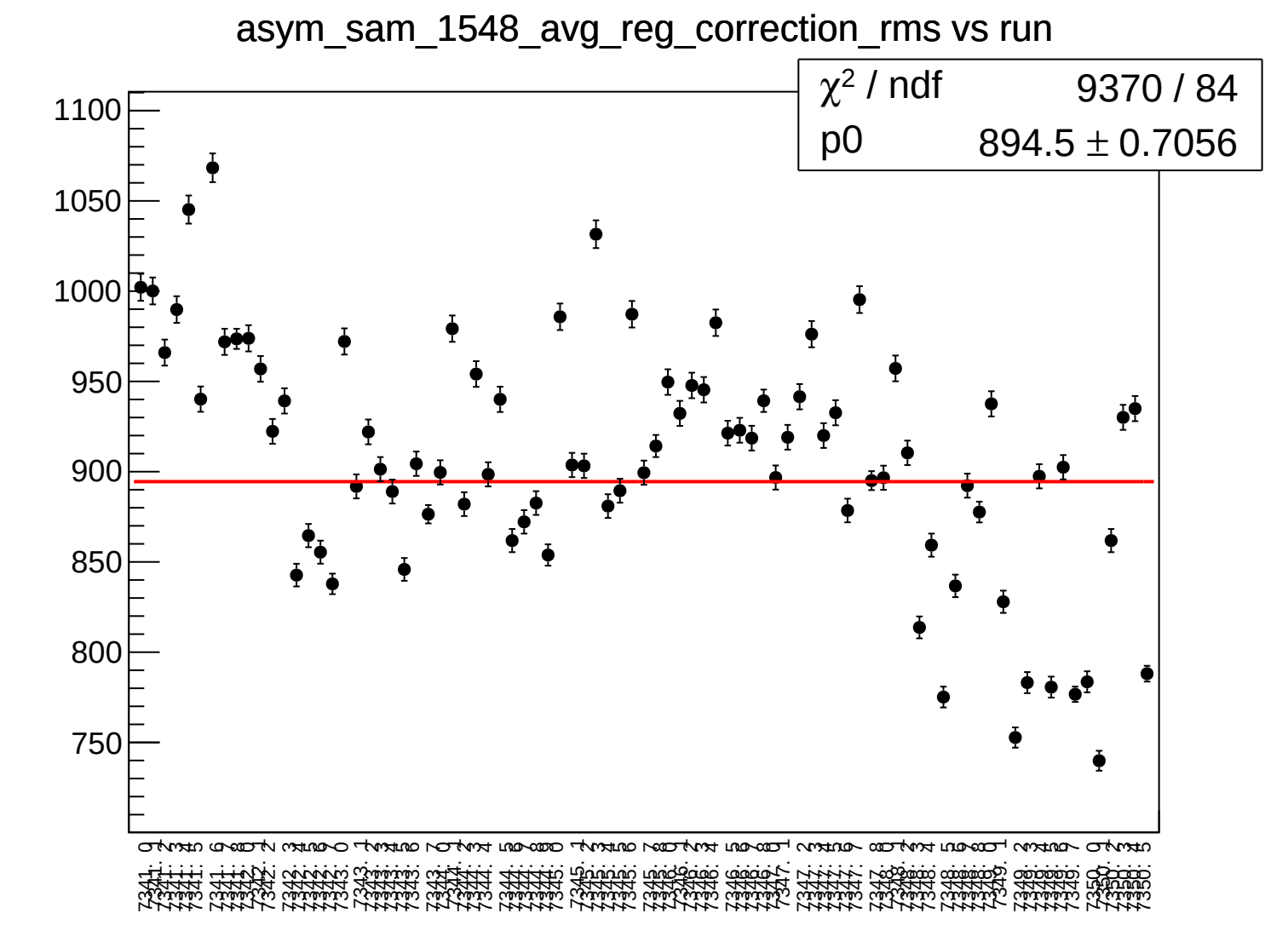

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.328e+05 / 84
p0 8.831e−12 ± 8.117e−15
50
40
30
20
10

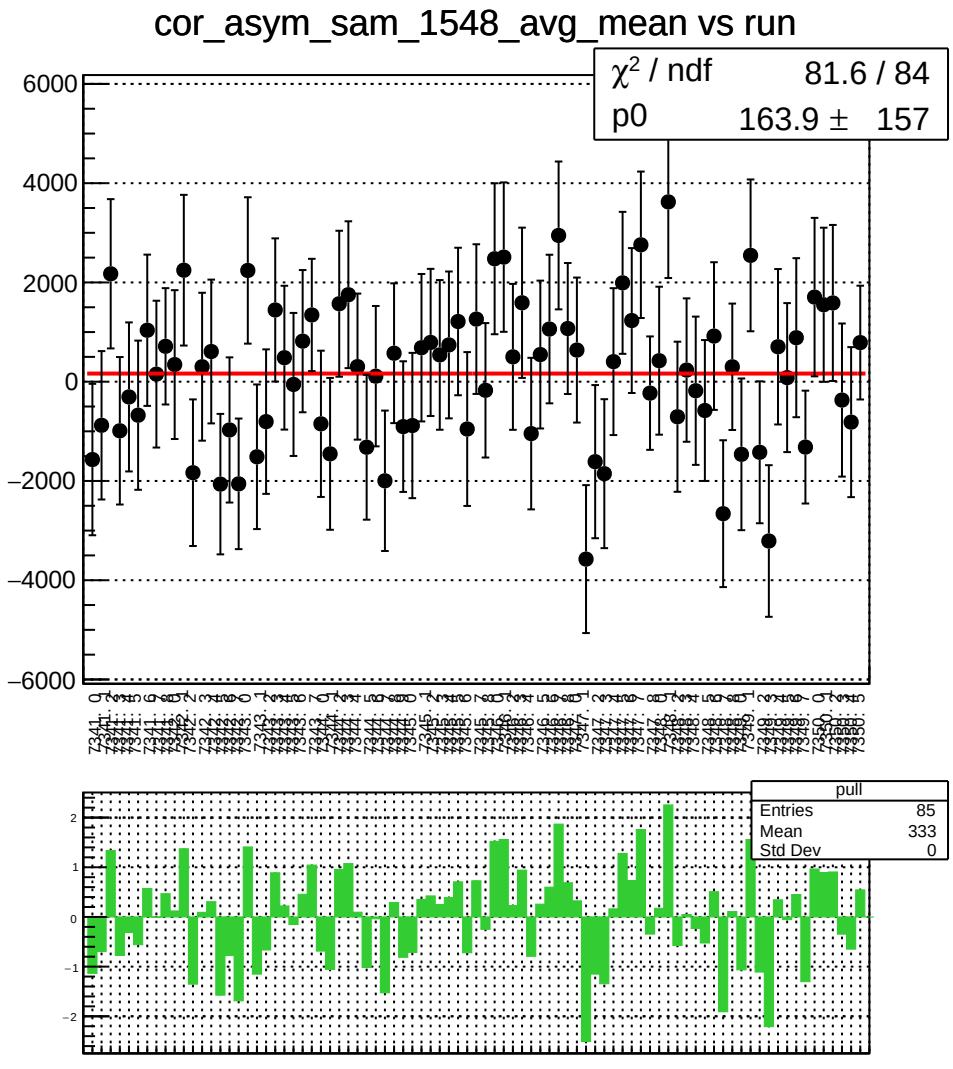

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 81.6 / 84
p0 163.8 ± 157
pull
Entries 85
Mean 333.1
Std Dev 0

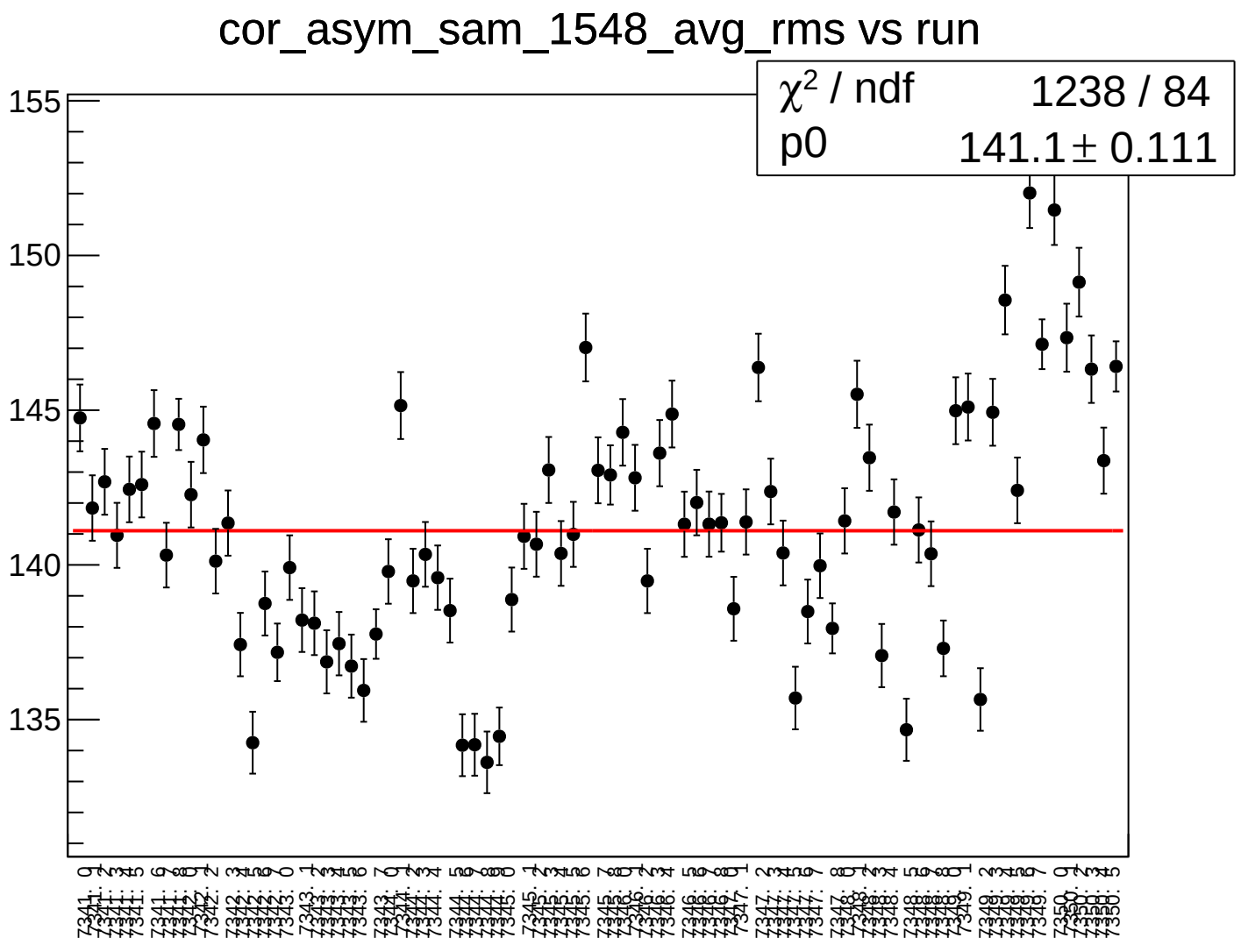

pull1D
Entries 85
Mean 0.005187
Std Dev 0.9798

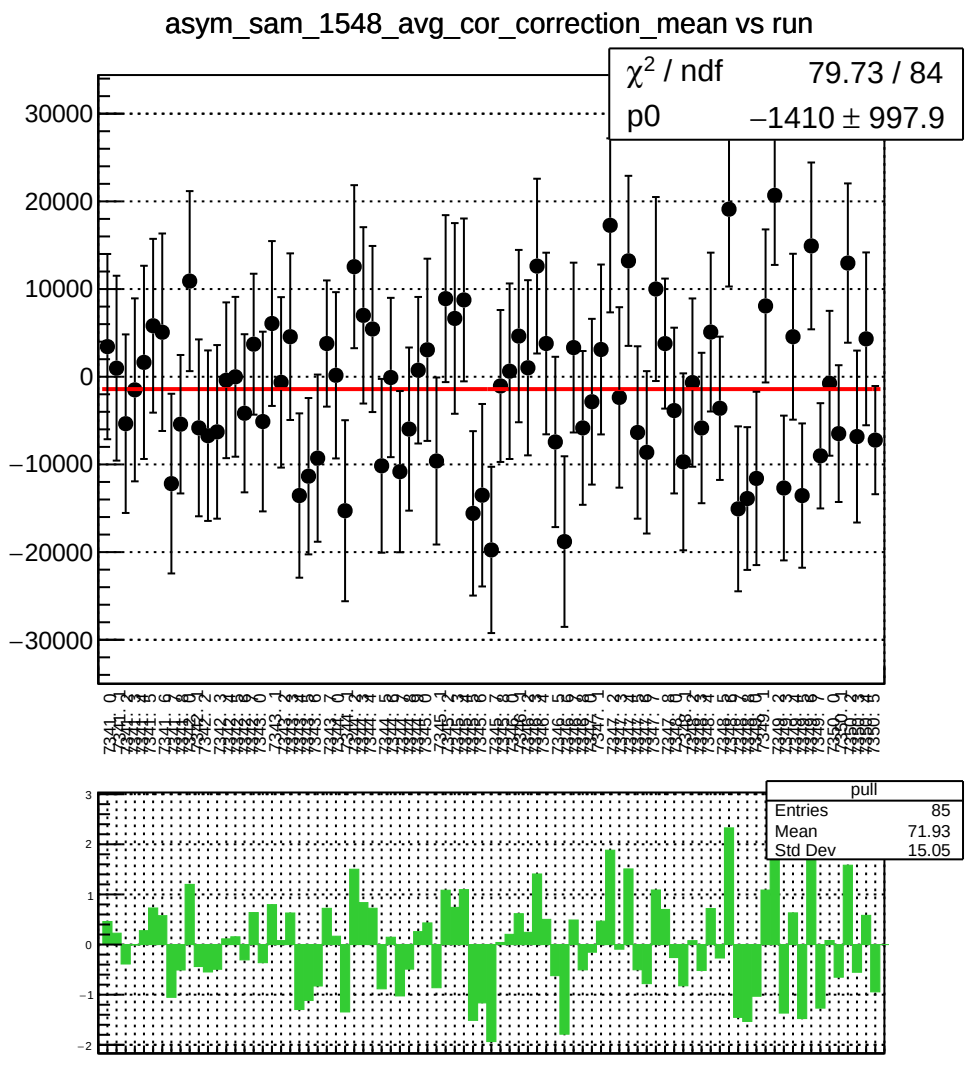

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1238 / 84
p0 141.1 ± 0.111
155
150
145
140
135

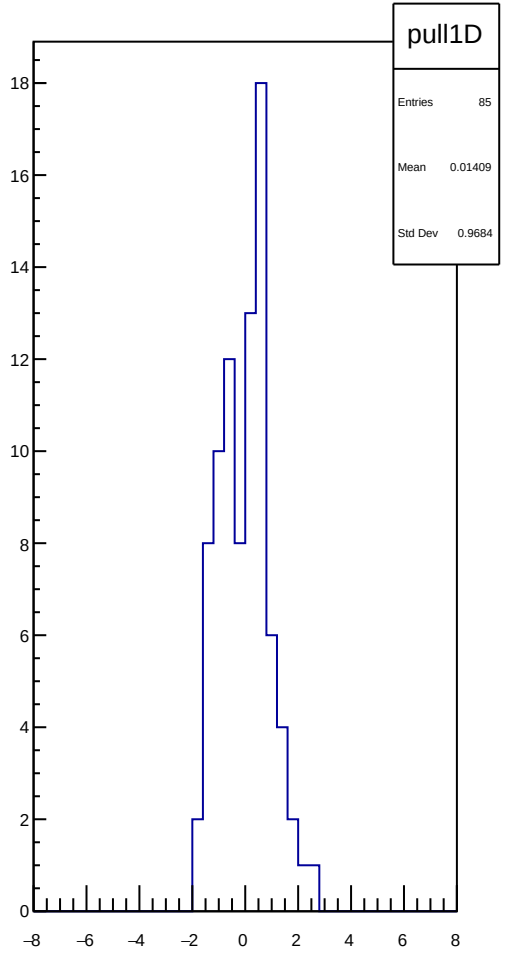

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 79.73 / 84
p0 −1410 ± 997.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 71.94
Std Dev 15.05
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01409
Std Dev 0.9684
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

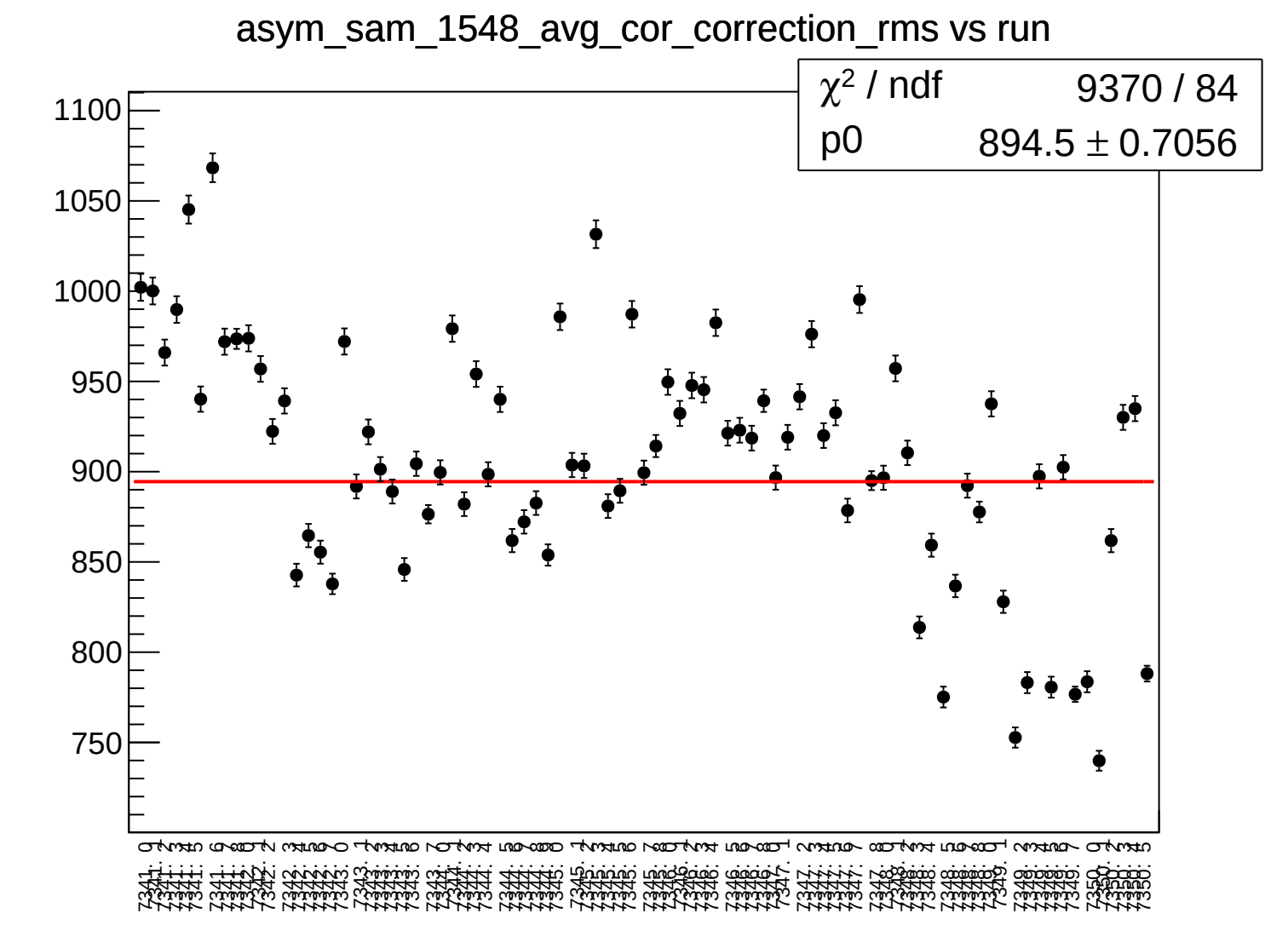

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 9370 / 84
p0 894.5 ± 0.7056
1100
1050
1000
950
900
850
800
750

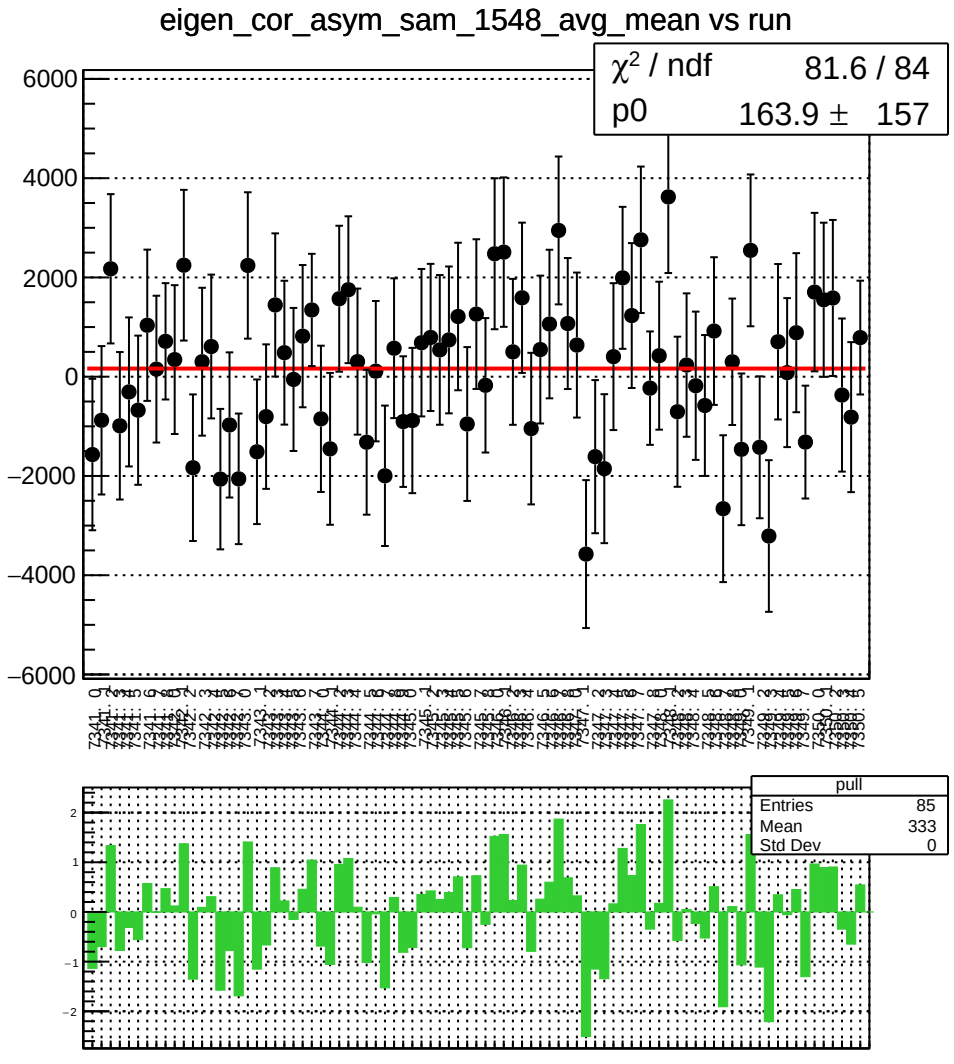

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 81.6 / 84
p0 163.9 ± 157
pull
Entries 85
Mean 333
Std Dev 0
pull1D
Entries 85
Mean 0.005188
Std Dev 0.9798

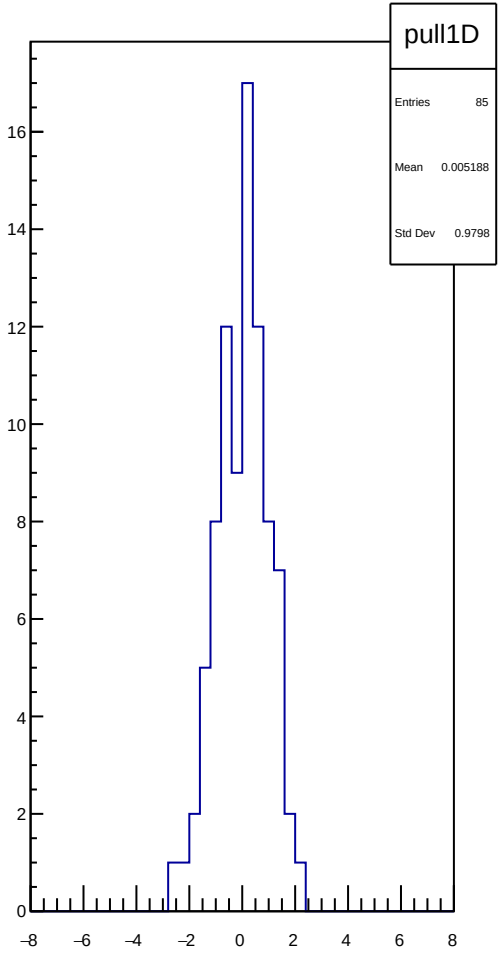

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1238 / 84
p0 141.1 ± 0.111
155
150
145
140
135

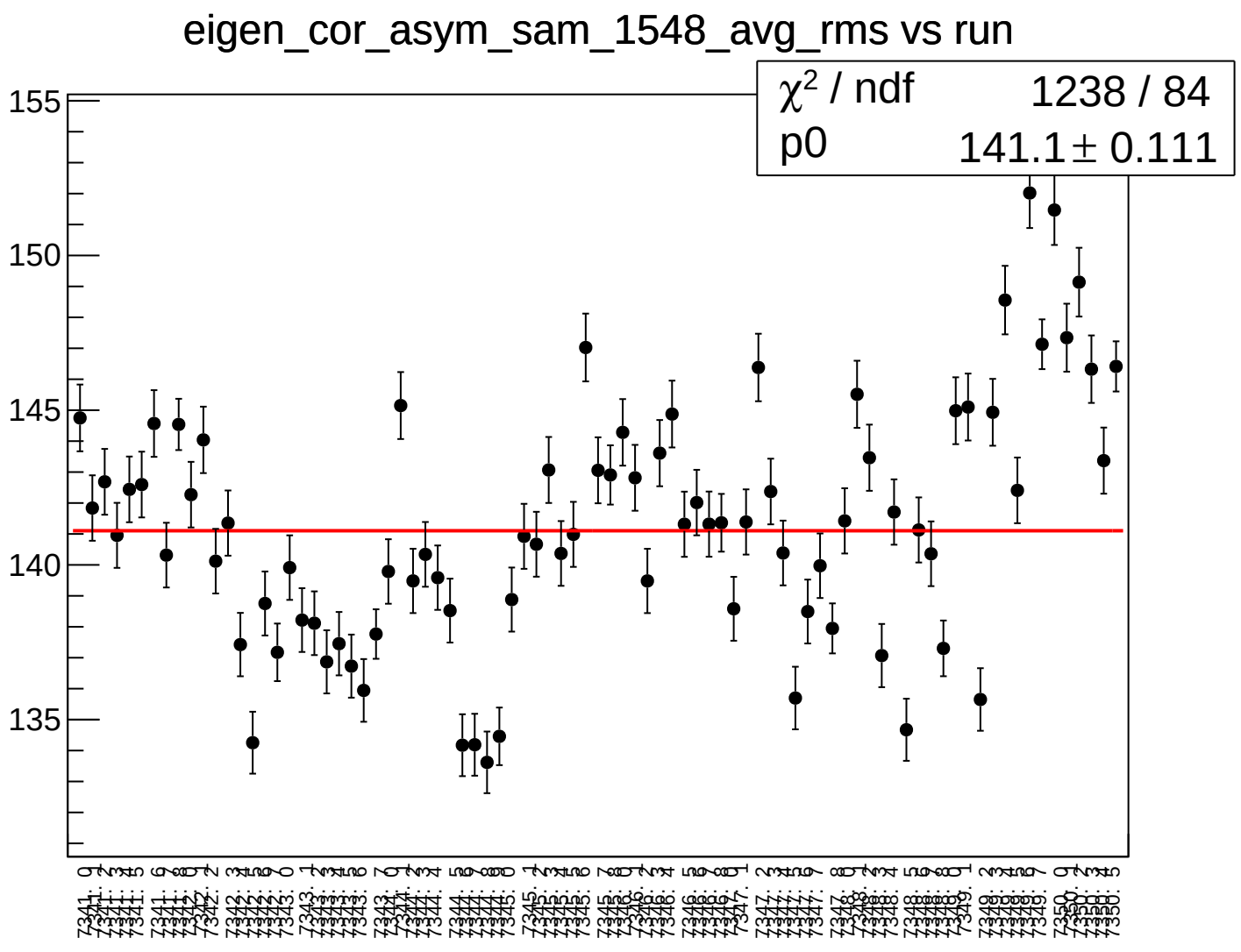

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 79.73 / 84
p0 −1410 ± 997.9
pull
Entries 85
Mean 71.93
Std Dev 15.05

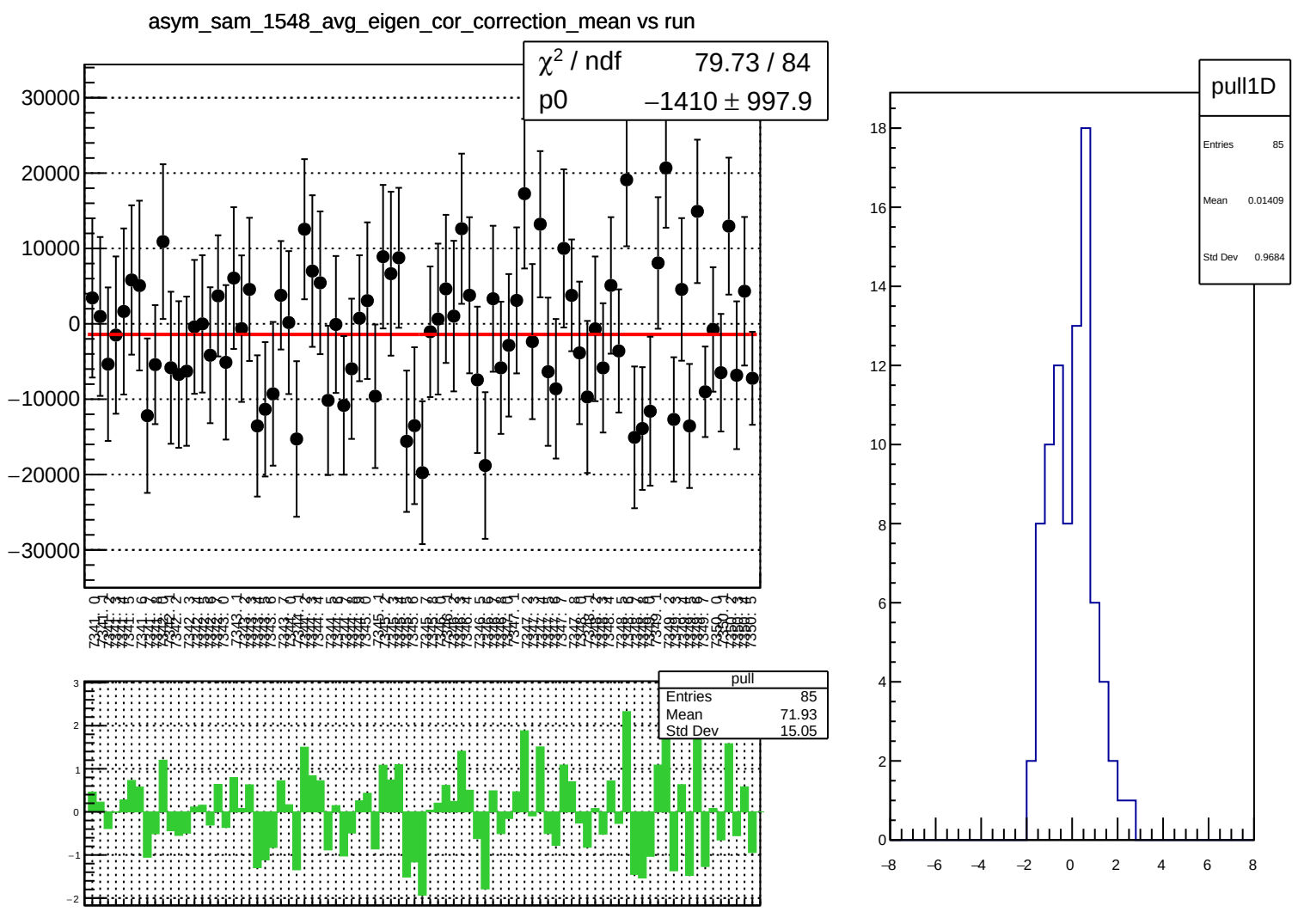

pull1D
Entries 85
Mean 0.01409
Std Dev 0.9684

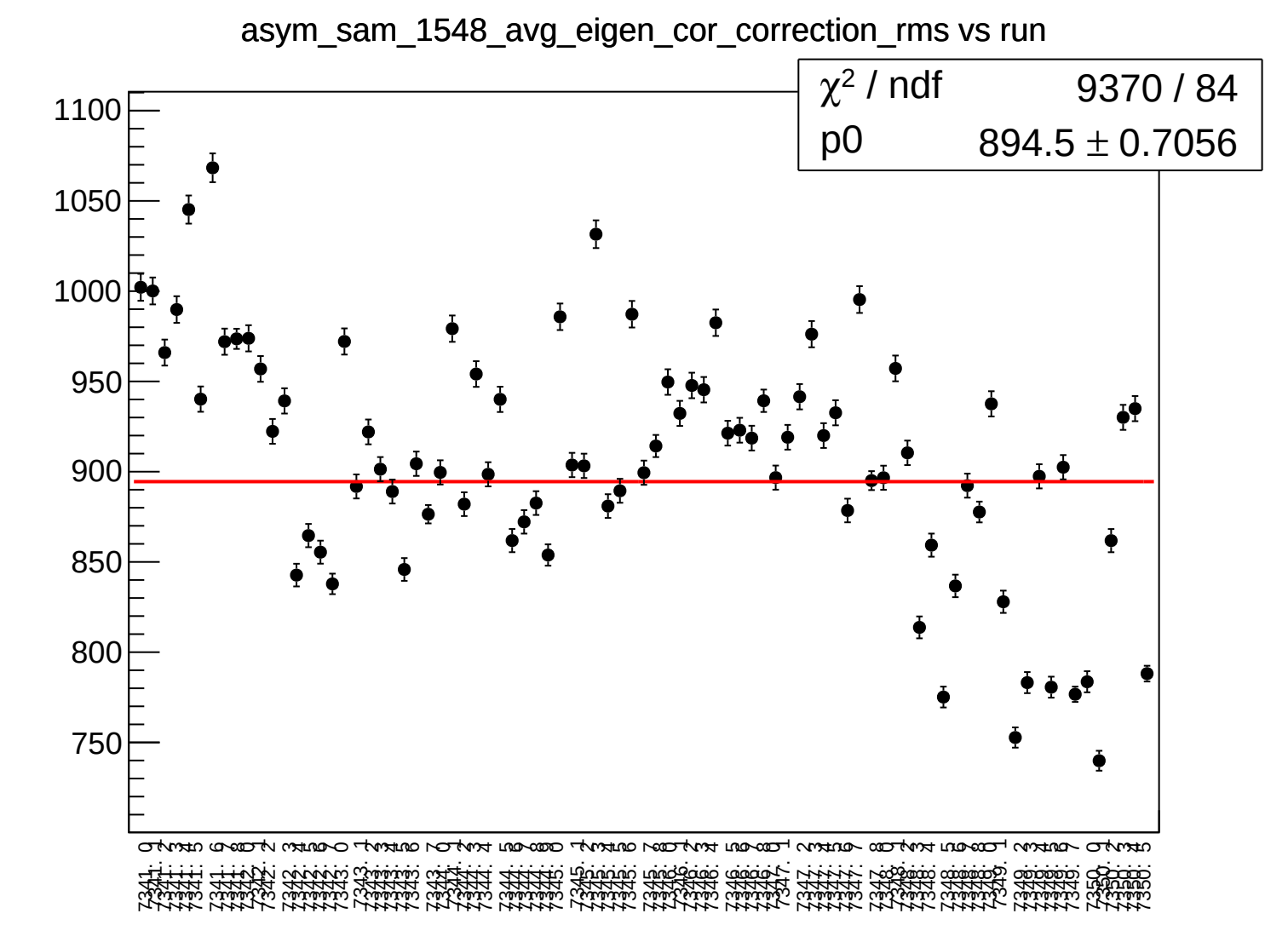

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 9370 / 84
p0 894.5 ± 0.7056
1100
1050
1000
950
900
850
800
750

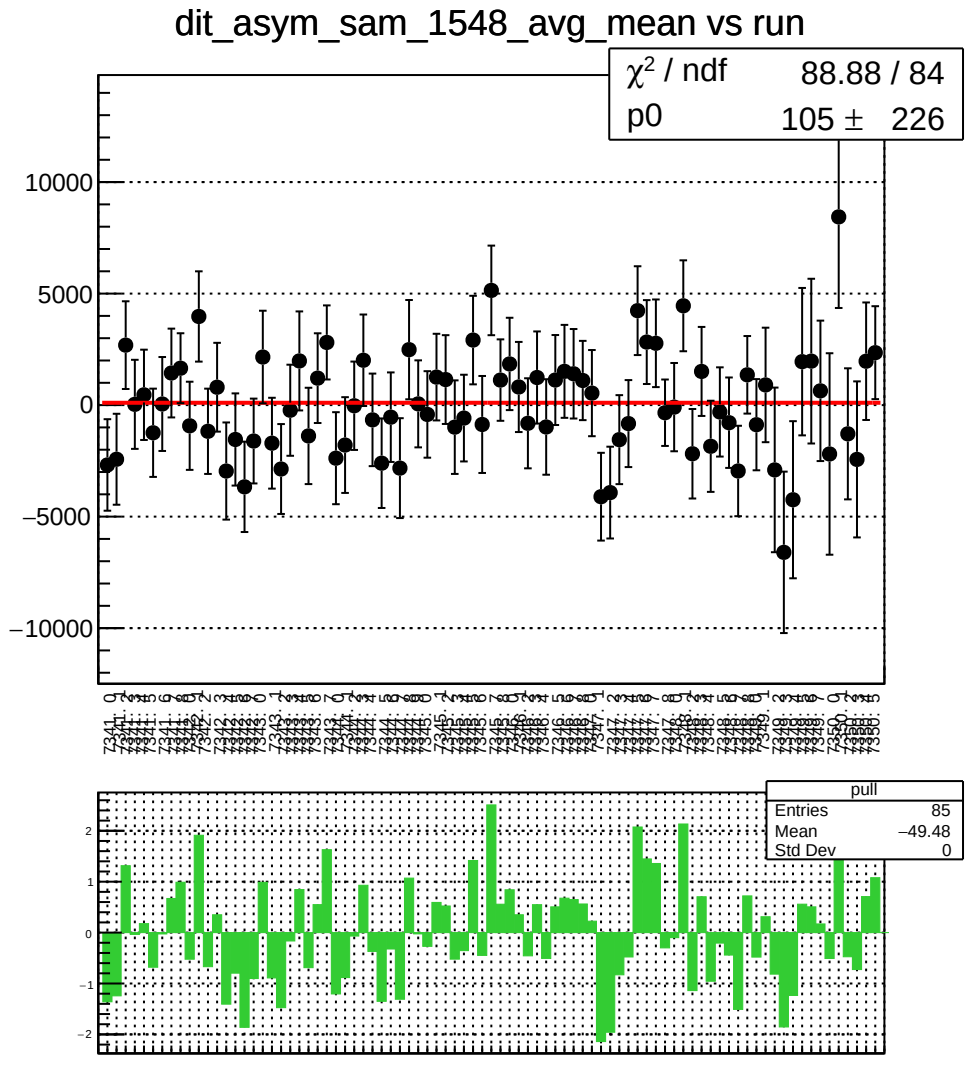

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 81.6 / 84
p0 163.9 ± 157
pull
Entries 85
Mean 333
Std Dev 0

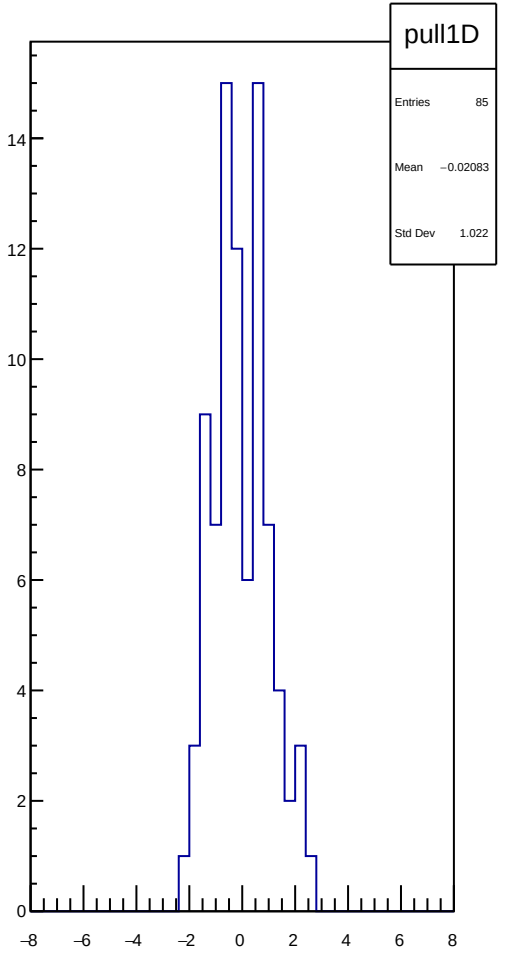

pull1D
Entries 85
Mean 0.005188
Std Dev 0.9798

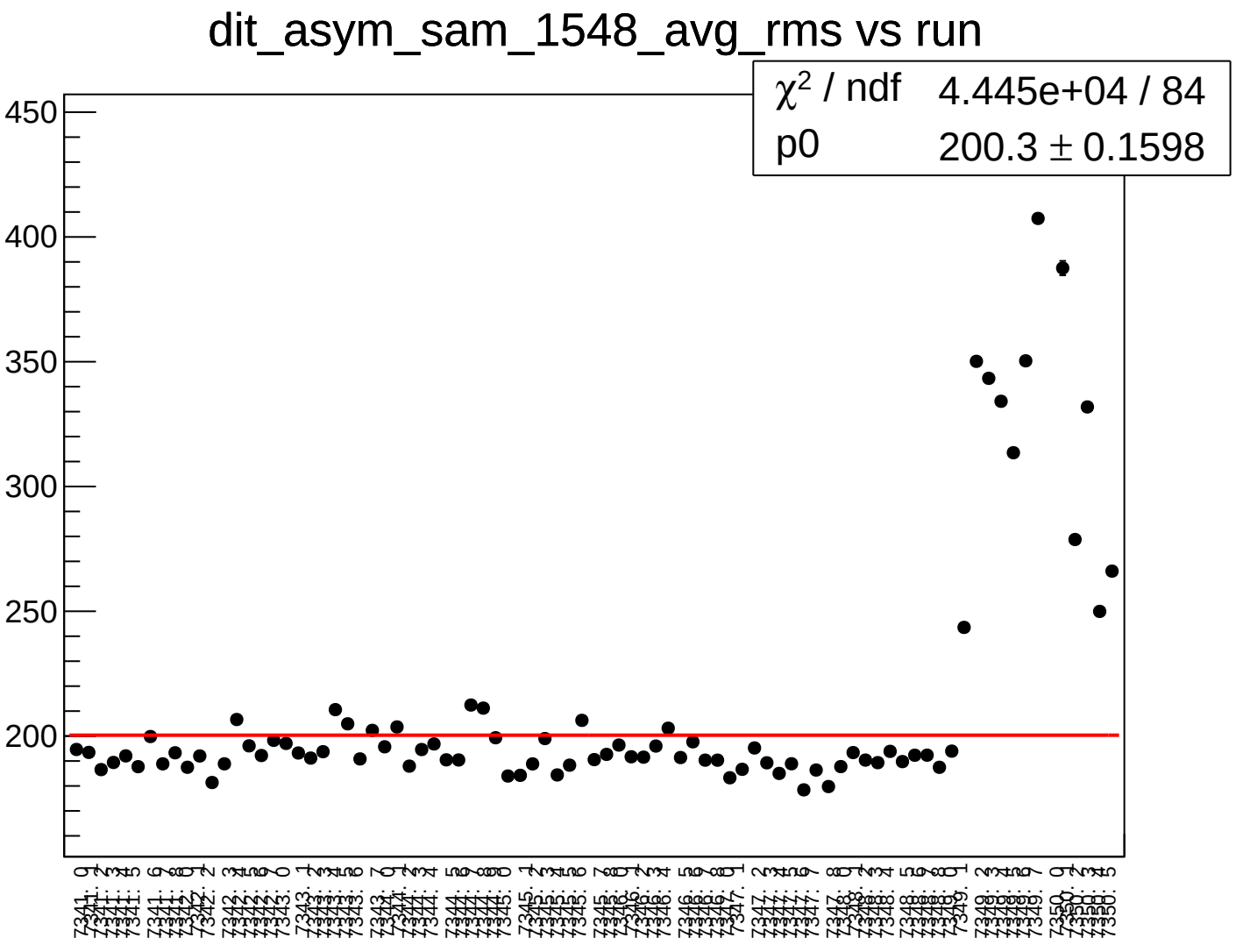

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1238 / 84
p0 141.1 ± 0.111
155
150
145
140
135

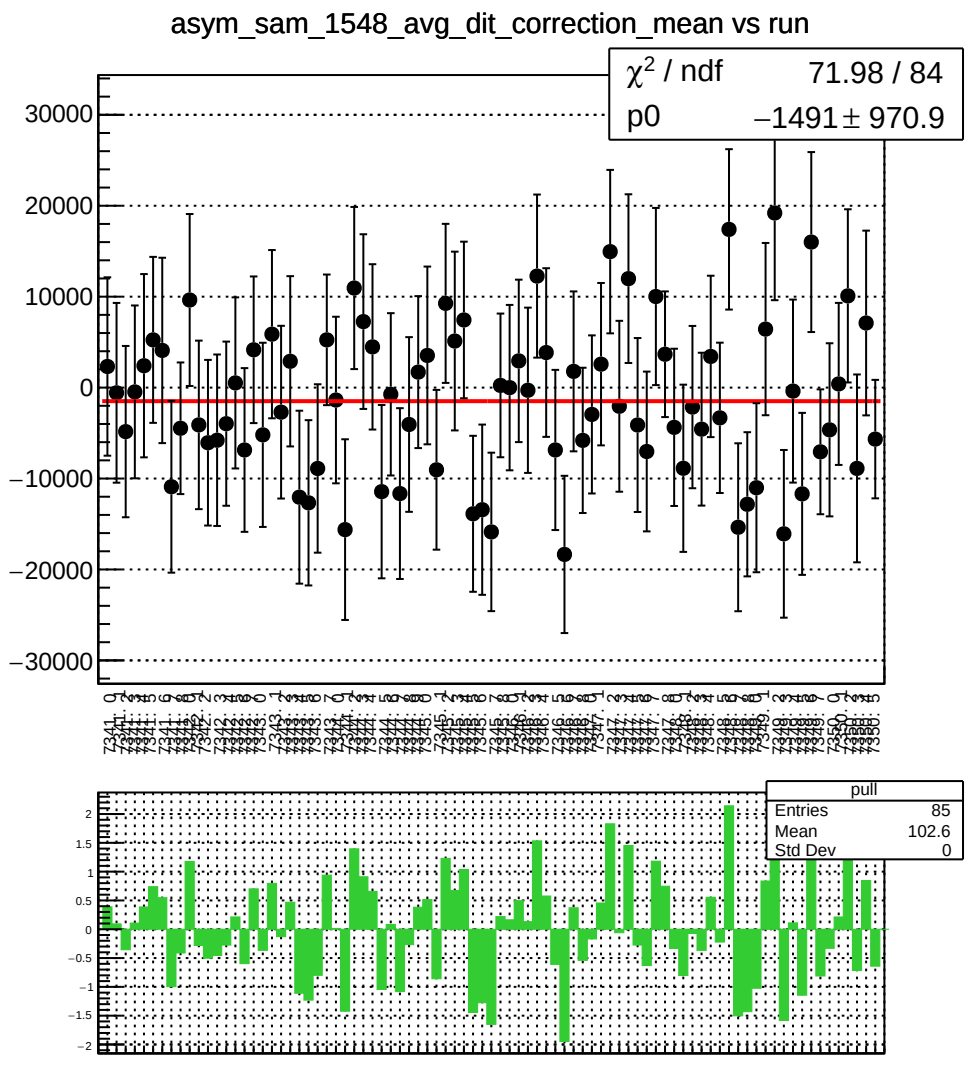

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.73 / 84
p0 −1410 ± 997.9
pull
Entries 85
Mean 71.93
Std Dev 15.05
pull1D
Entries 85
Mean 0.01409
Std Dev 0.9684

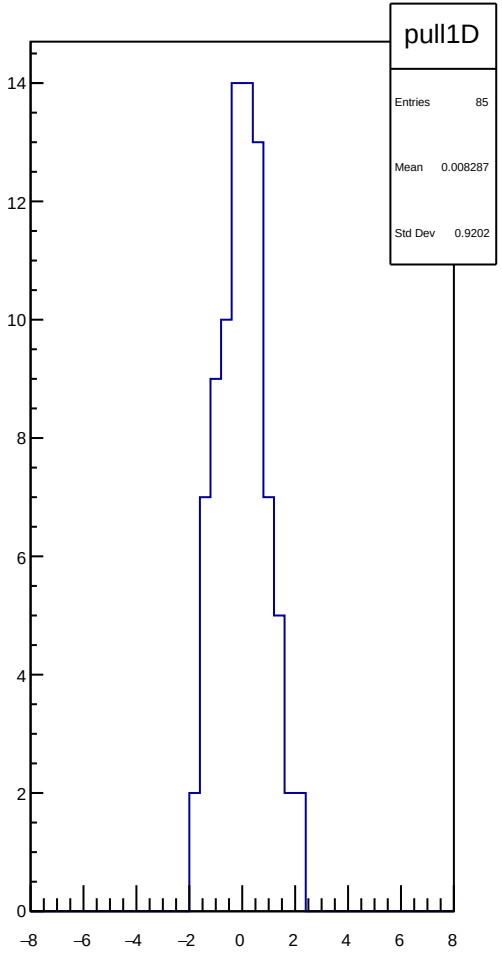

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 9370 / 84
p0 894.5 ± 0.7056
1100
1050
1000
950
900
850
800
750

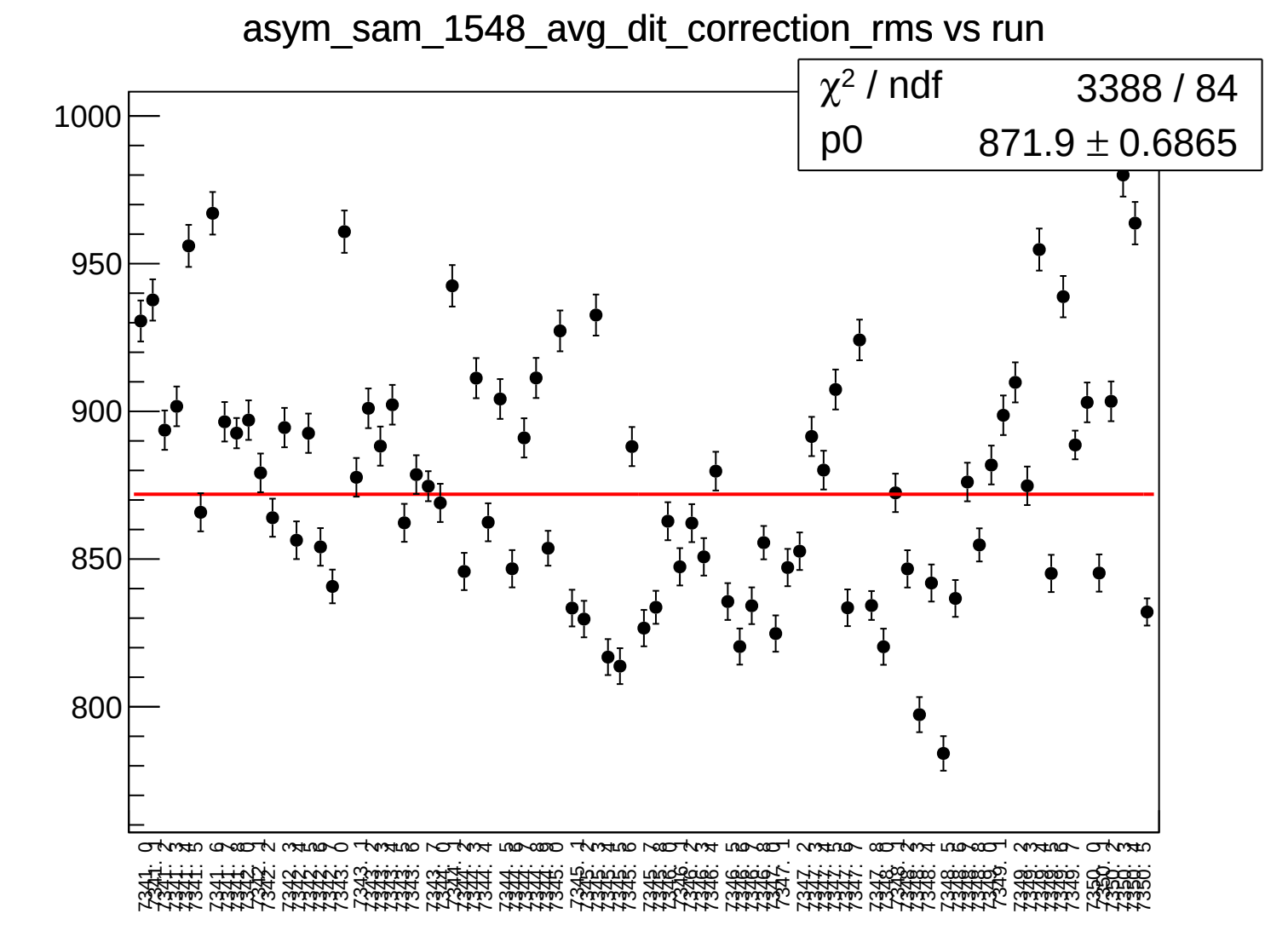

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 88.88 / 84
p0 105 ± 226
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −49.48
Std Dev 0
2
1
0
−1
−2

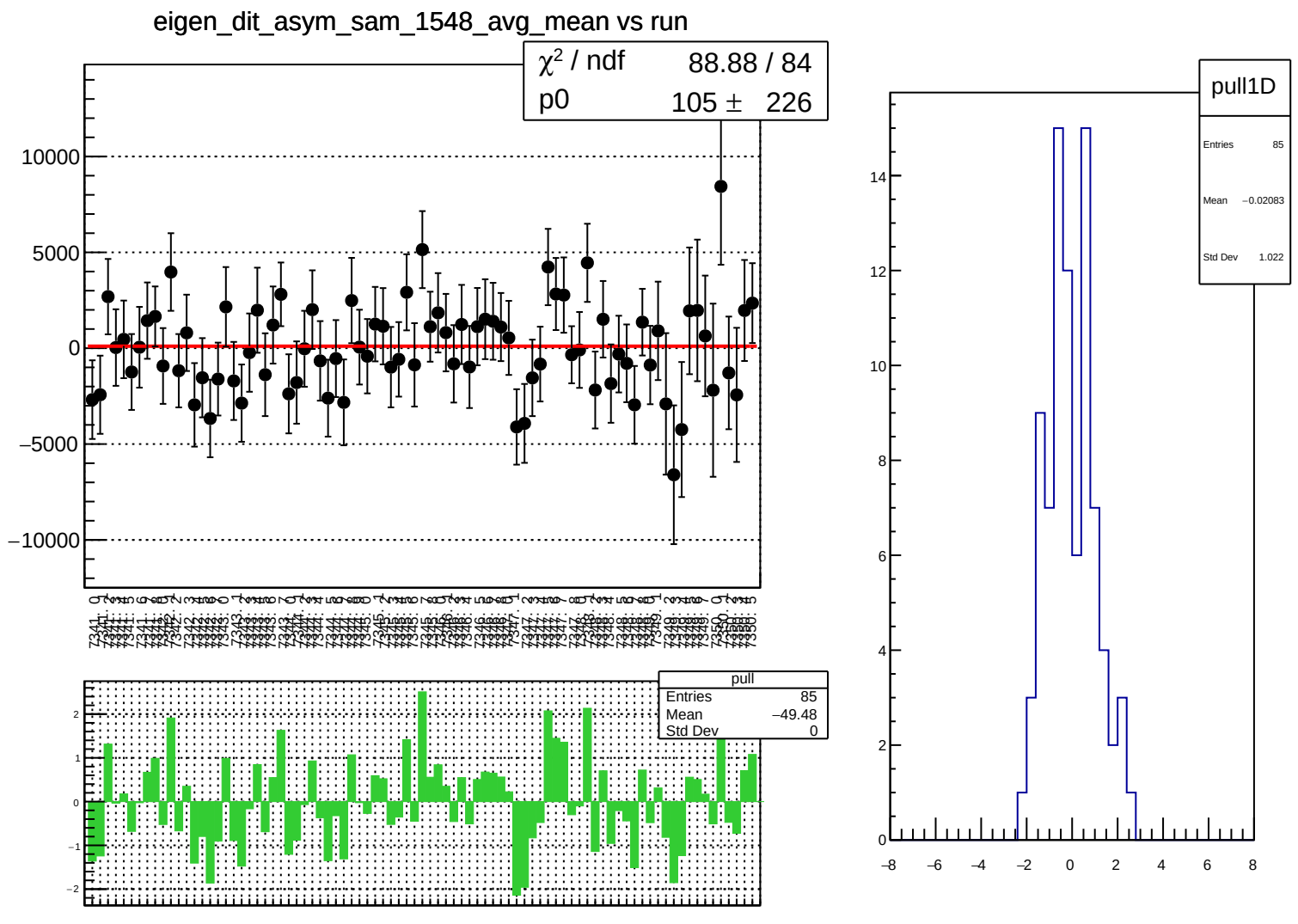

pull1D
Entries 85
Mean −0.02083
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

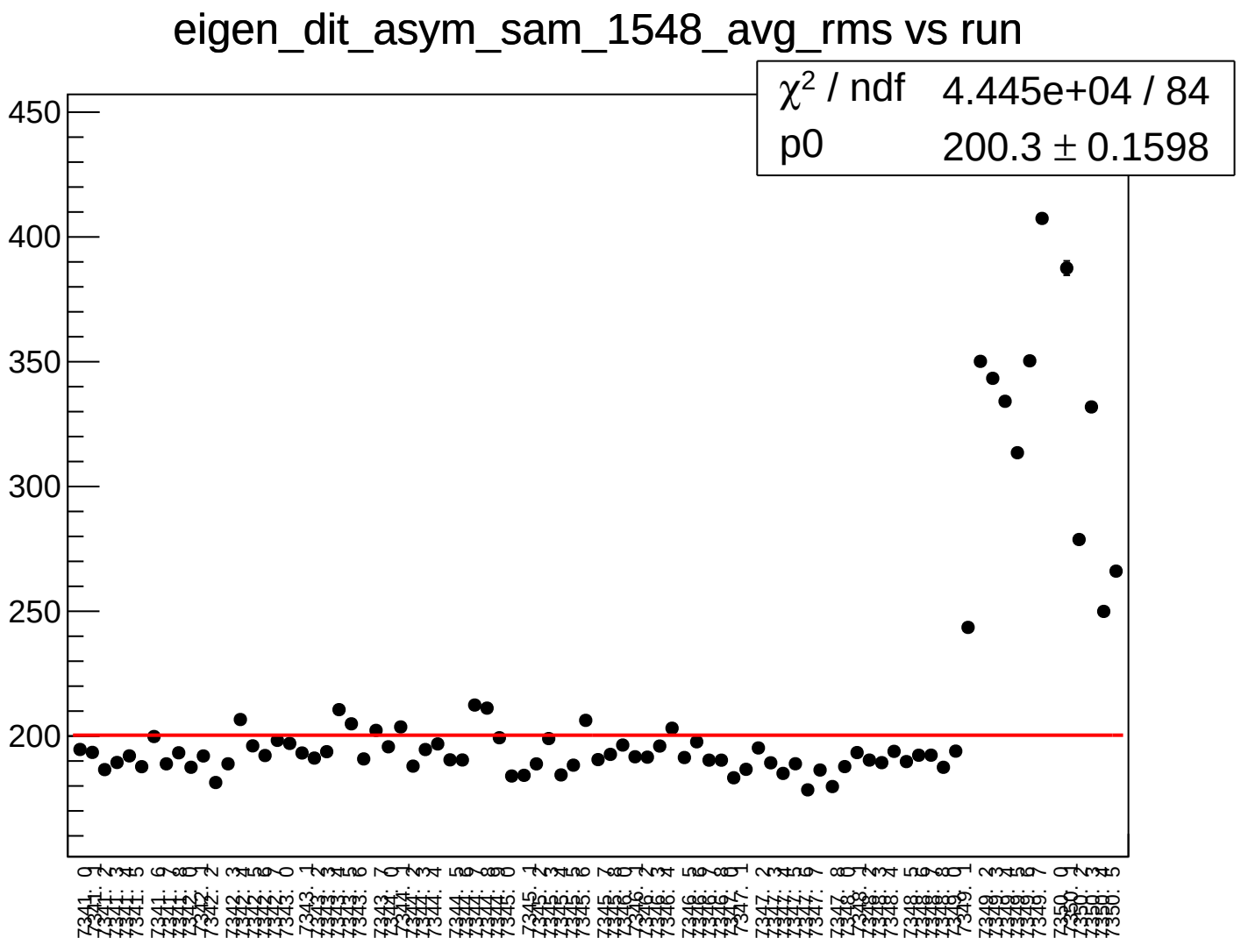

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 4.445e+04 / 84
p0 200.3 ± 0.1598
450
400
350
300
250
200

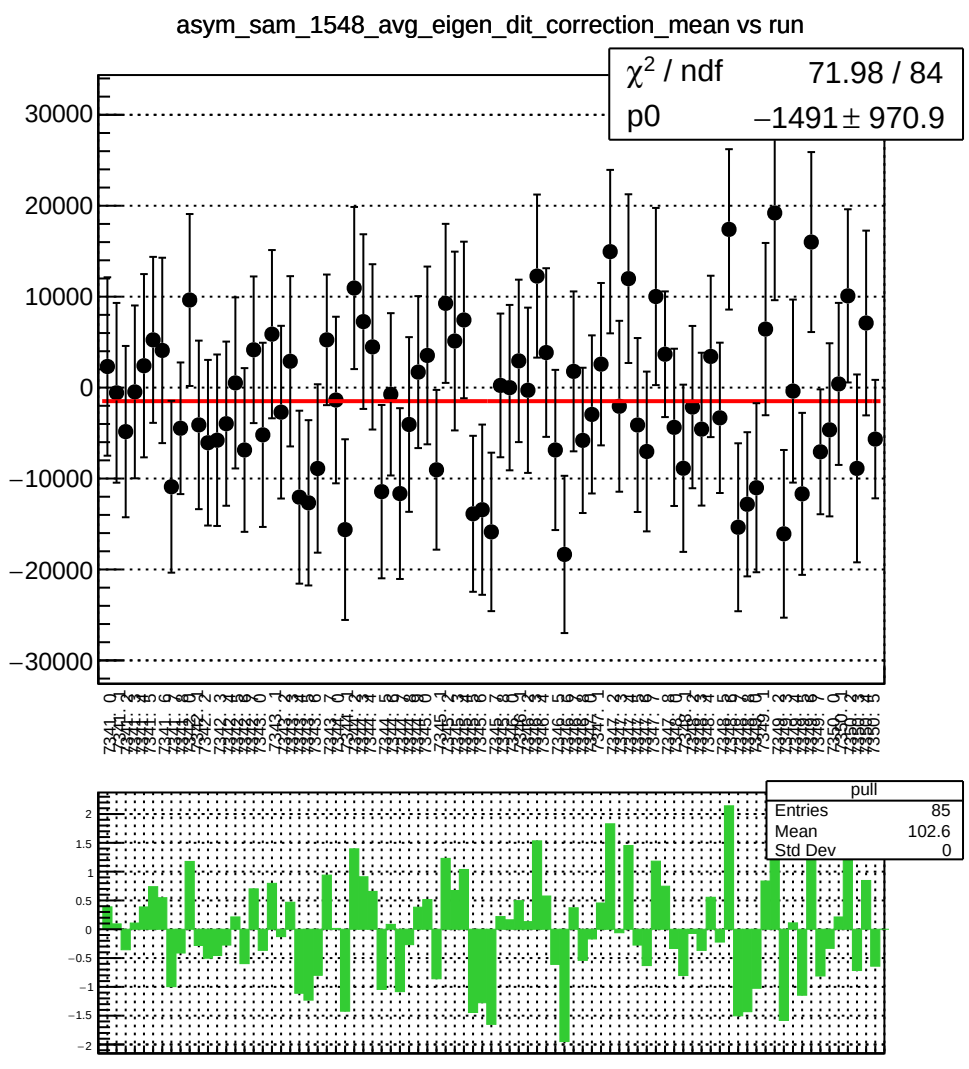

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 71.98 / 84
p0 −1491 ± 970.9
pull
Entries 85
Mean 102.6
Std Dev 0

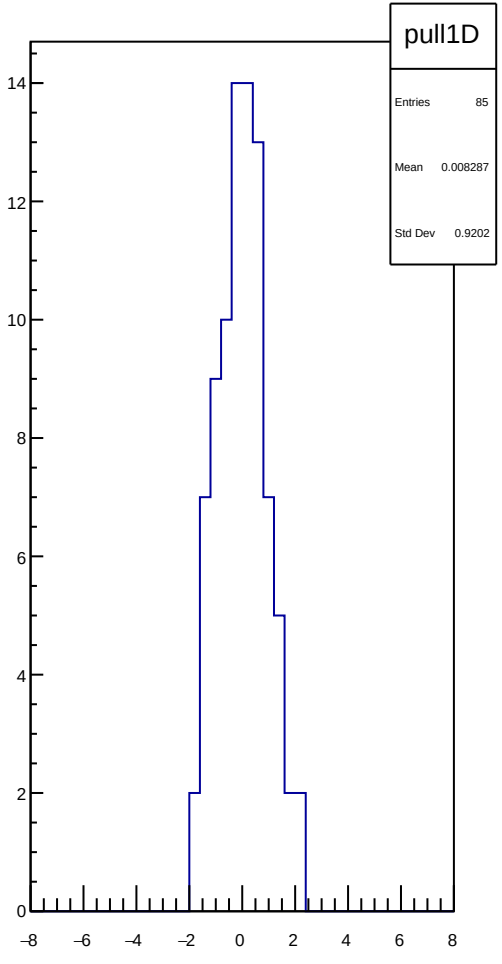

pull1D
Entries 85
Mean 0.008287
Std Dev 0.9202

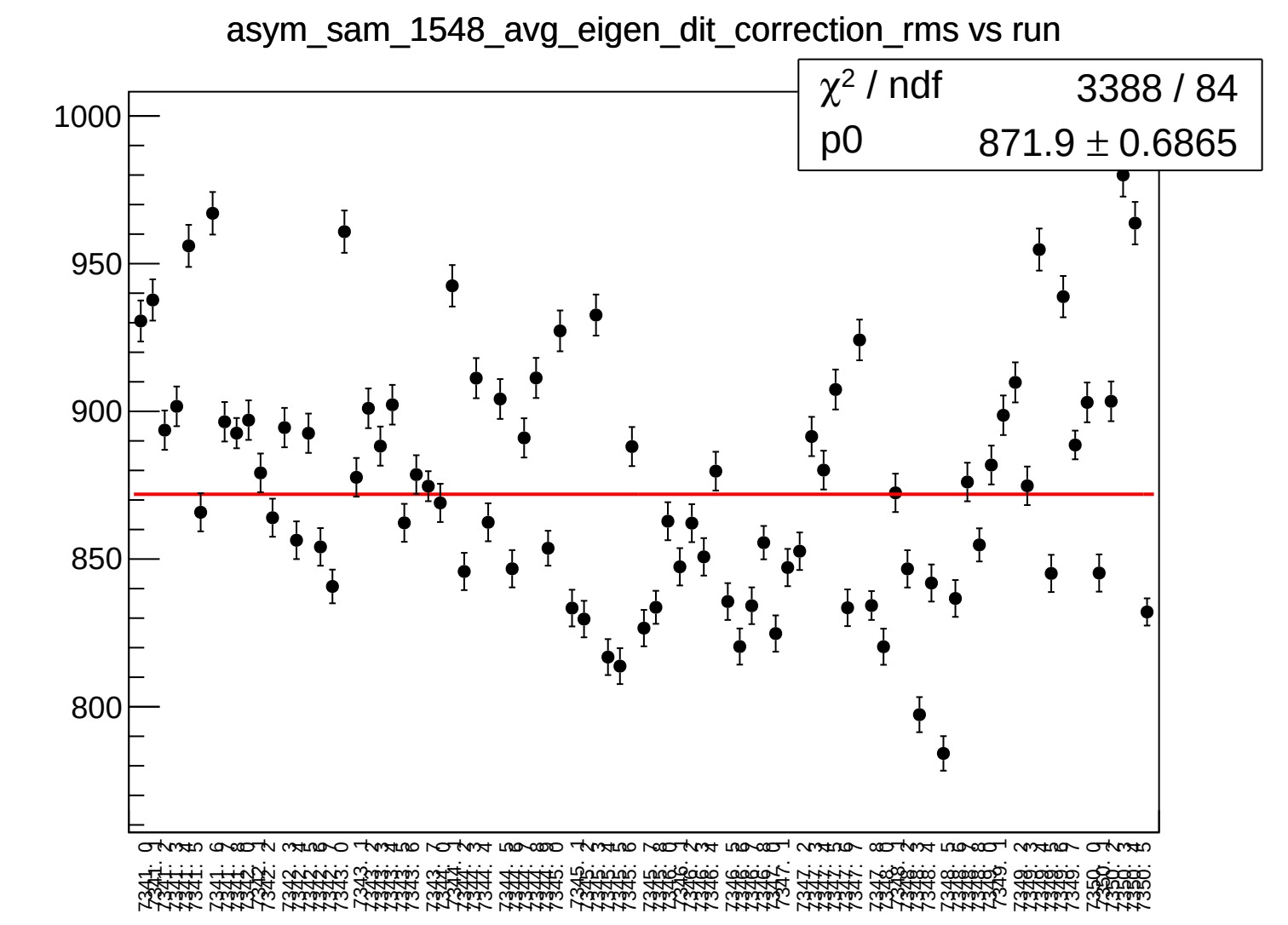

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 3388 / 84
p0 871.9 ± 0.6865
1000
950
900
850
800

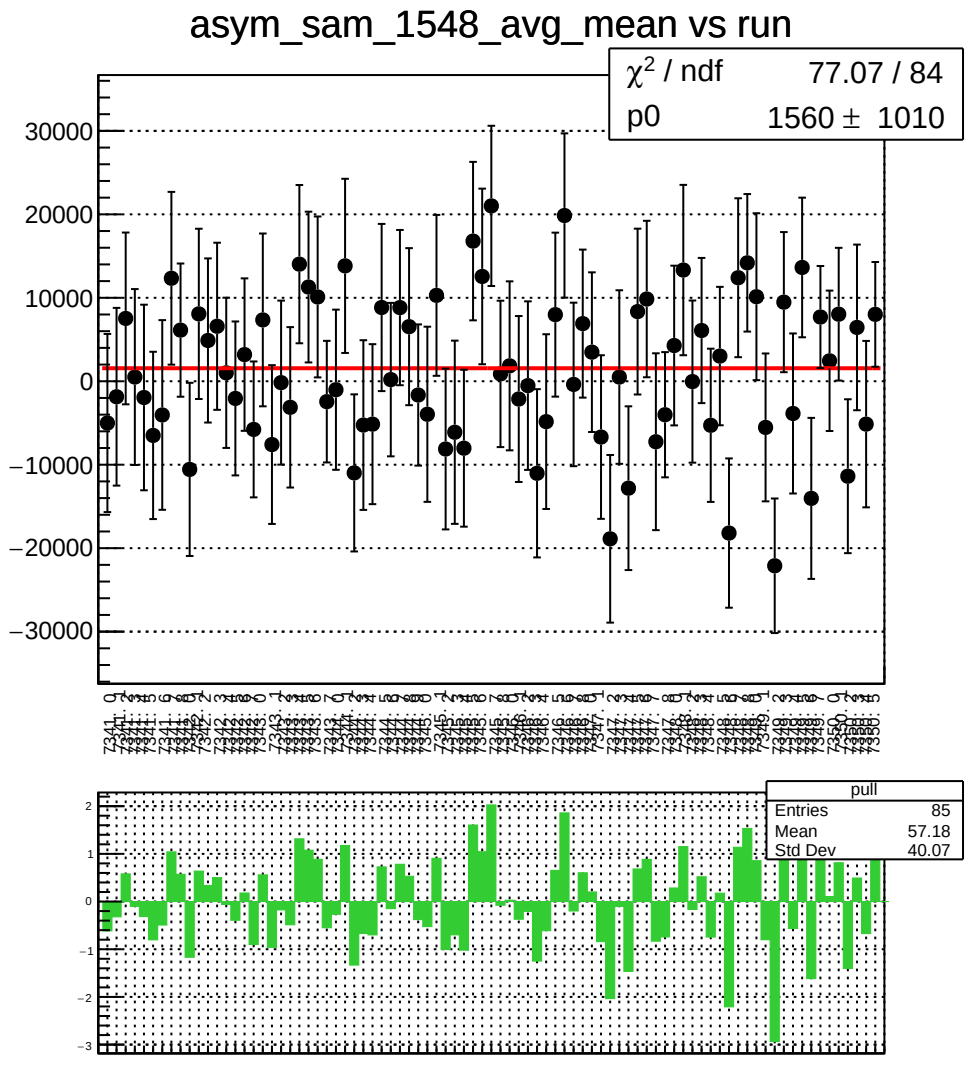

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 88.88 / 84
p0 105 ± 226
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −49.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.02083
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

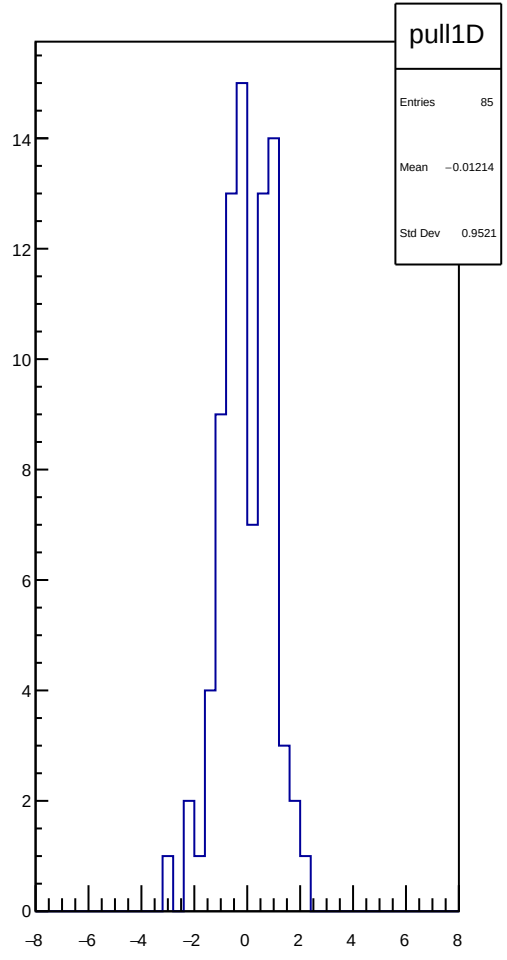

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4.445e+04 / 84
p0 200.3 ± 0.1598
450
400
350
300
250
200

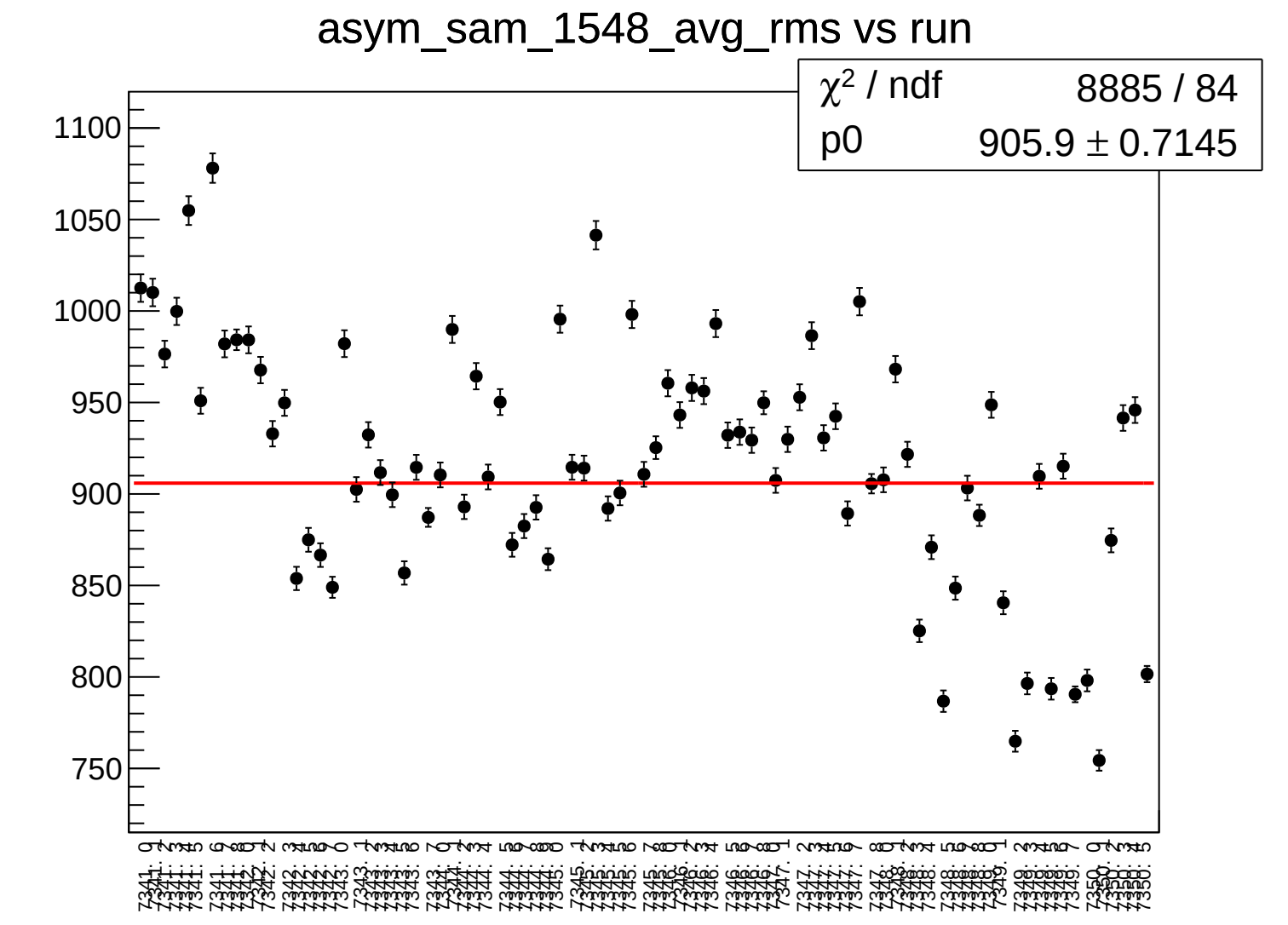

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.98 / 84
p0 −1491 ± 970.9
pull
Entries 85
Mean 102.6
Std Dev 0

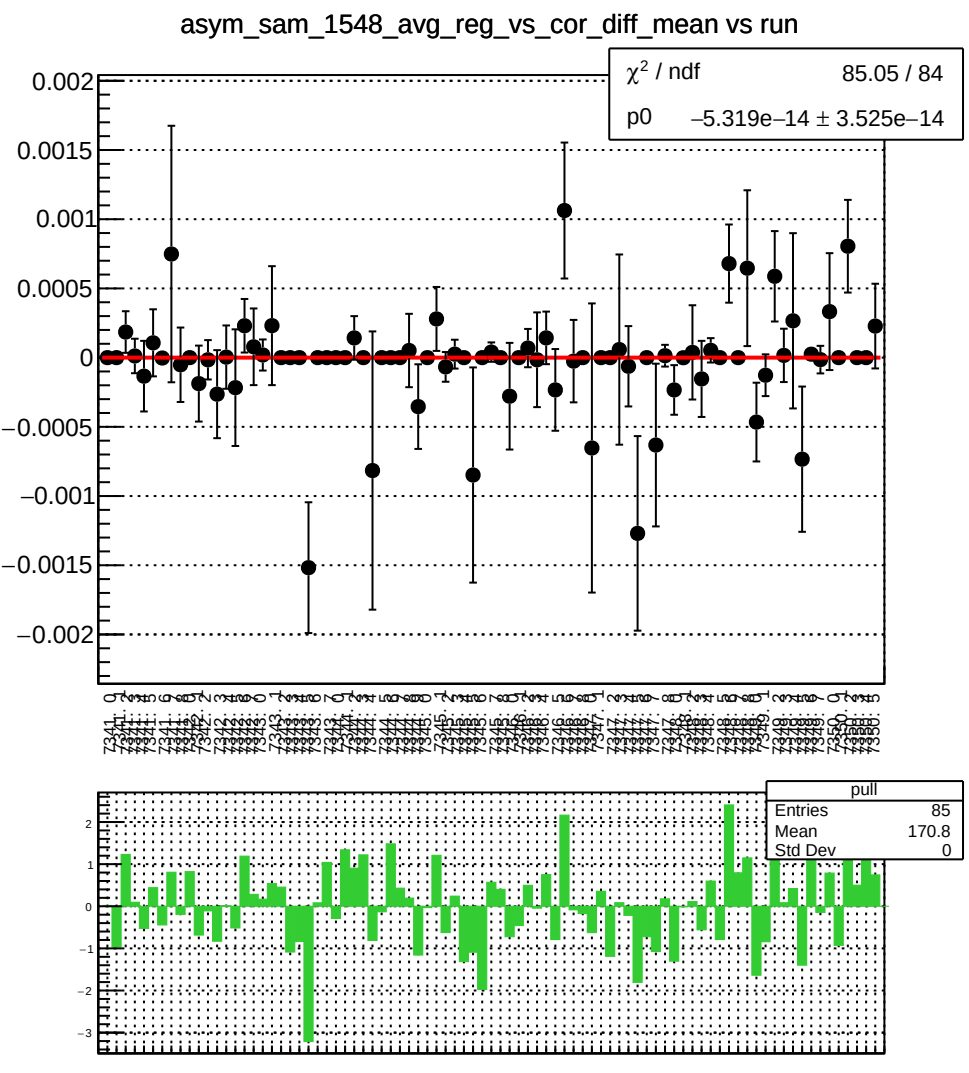

pull1D
Entries 85
Mean 0.008287
Std Dev 0.9202

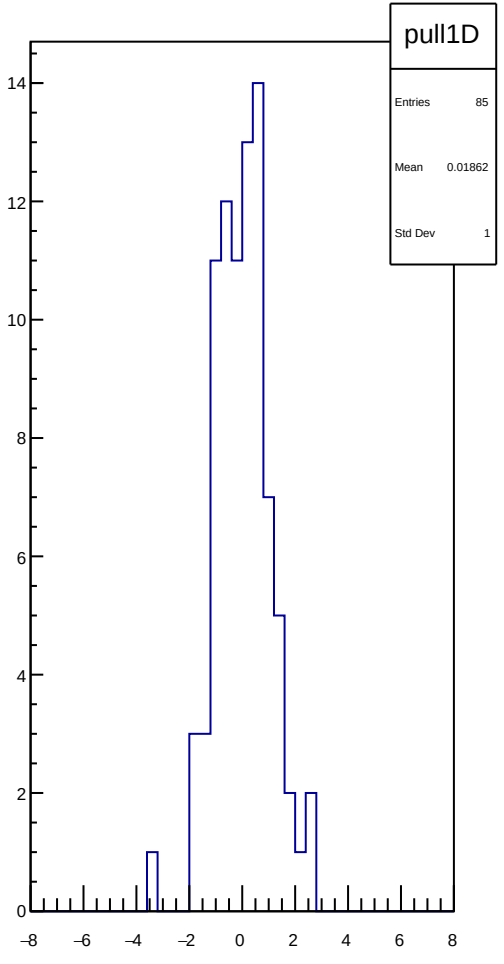

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 3388 / 84
p0 871.9 ± 0.6865
1000
950
900
850
800

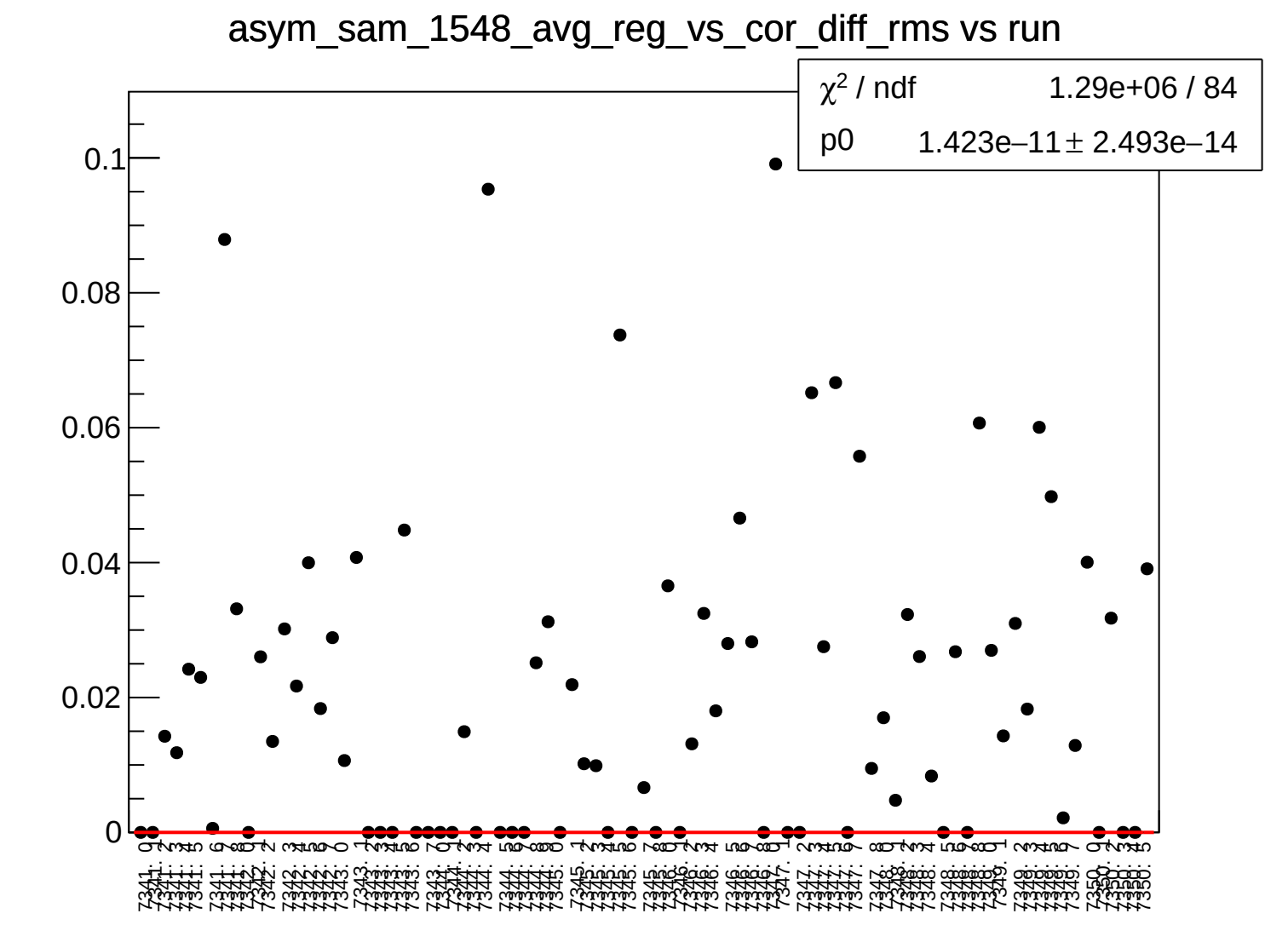

asym_sam_1548_avg_mean vs run
χ² / ndf 77.07 / 84
p0 1560 ± 1010
pull
Entries 85
Mean 57.18
Std Dev 40.07

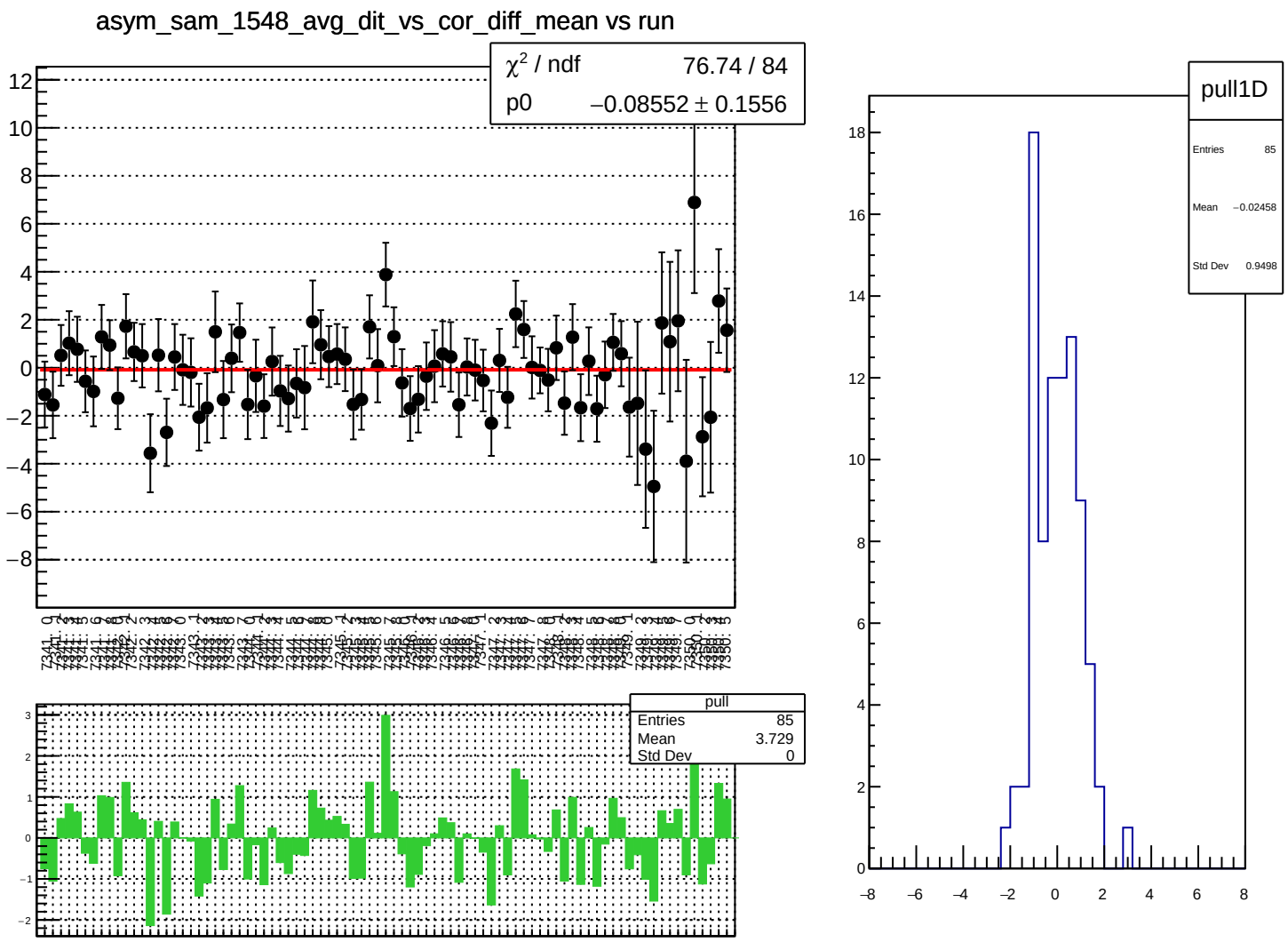

pull1D
Entries 85
Mean −0.01214
Std Dev 0.9521

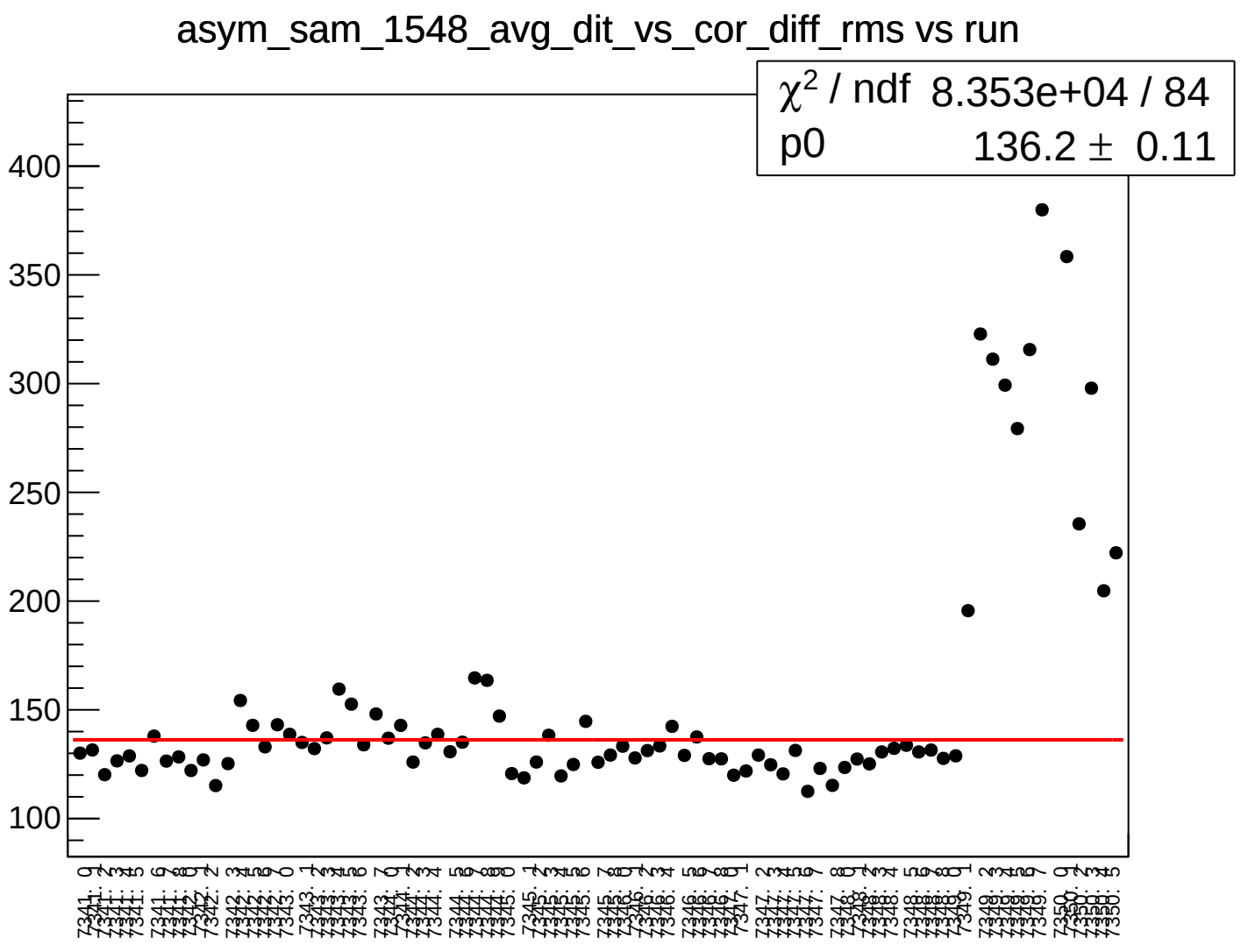

asym_sam_1548_avg_rms vs run
χ² / ndf 8885 / 84
p0 905.9 ± 0.7145
1100
1050
1000
950
900
850
800
750

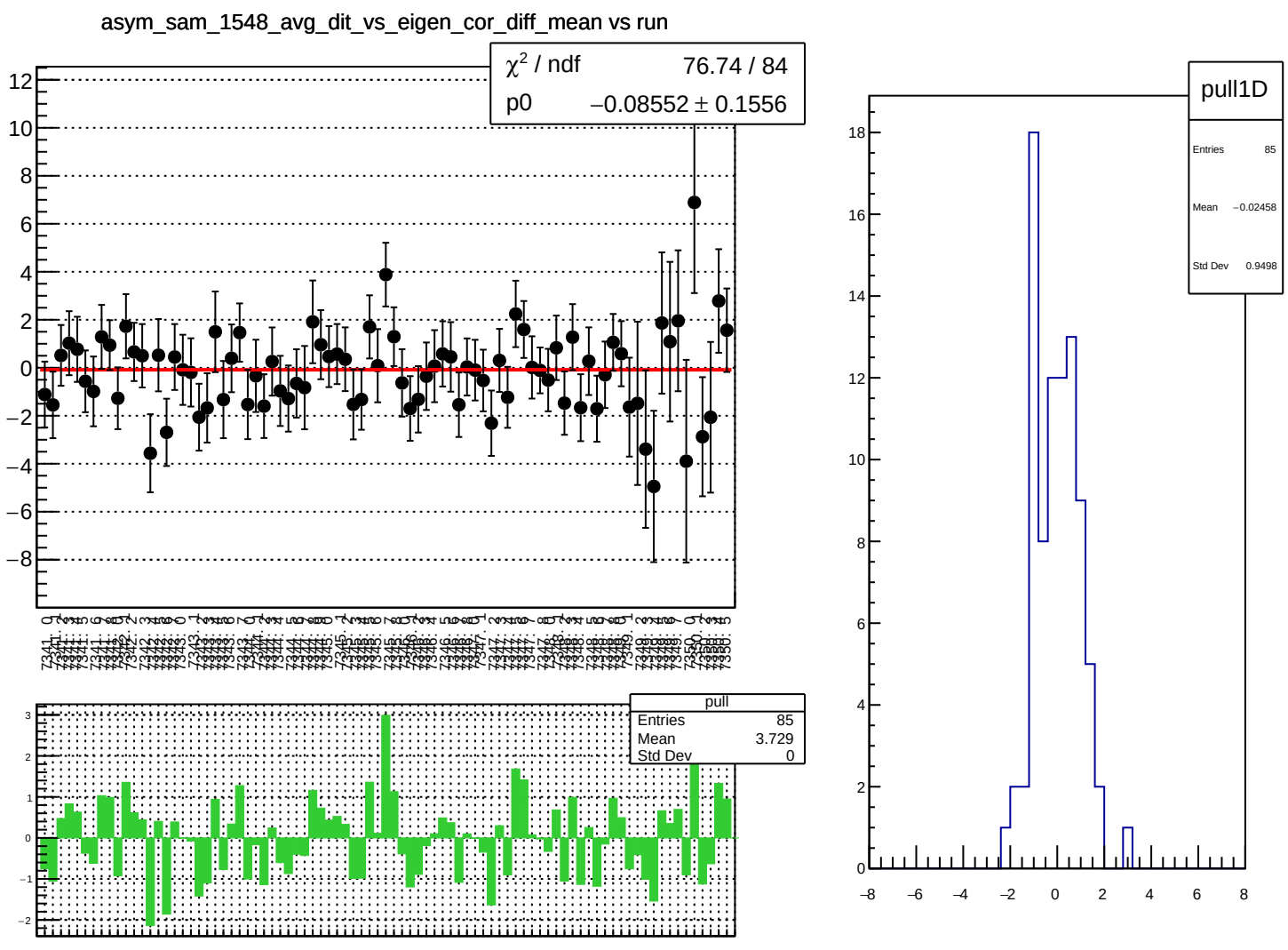

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.05 / 84
p0 −5.319e−14 ± 3.525e−14
pull
Entries 85
Mean 170.8
Std Dev 0

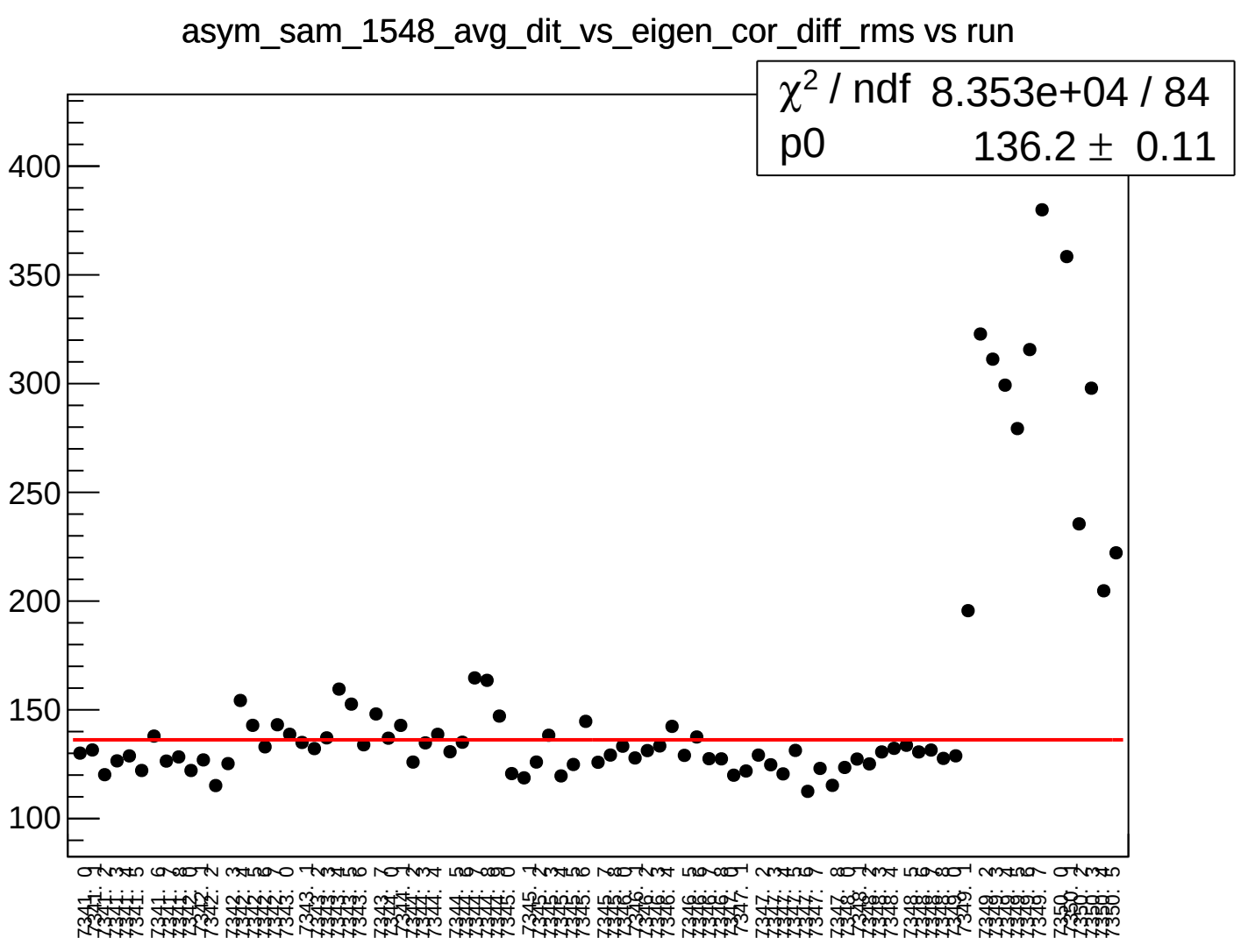

pull1D
Entries 85
Mean 0.01862
Std Dev 1

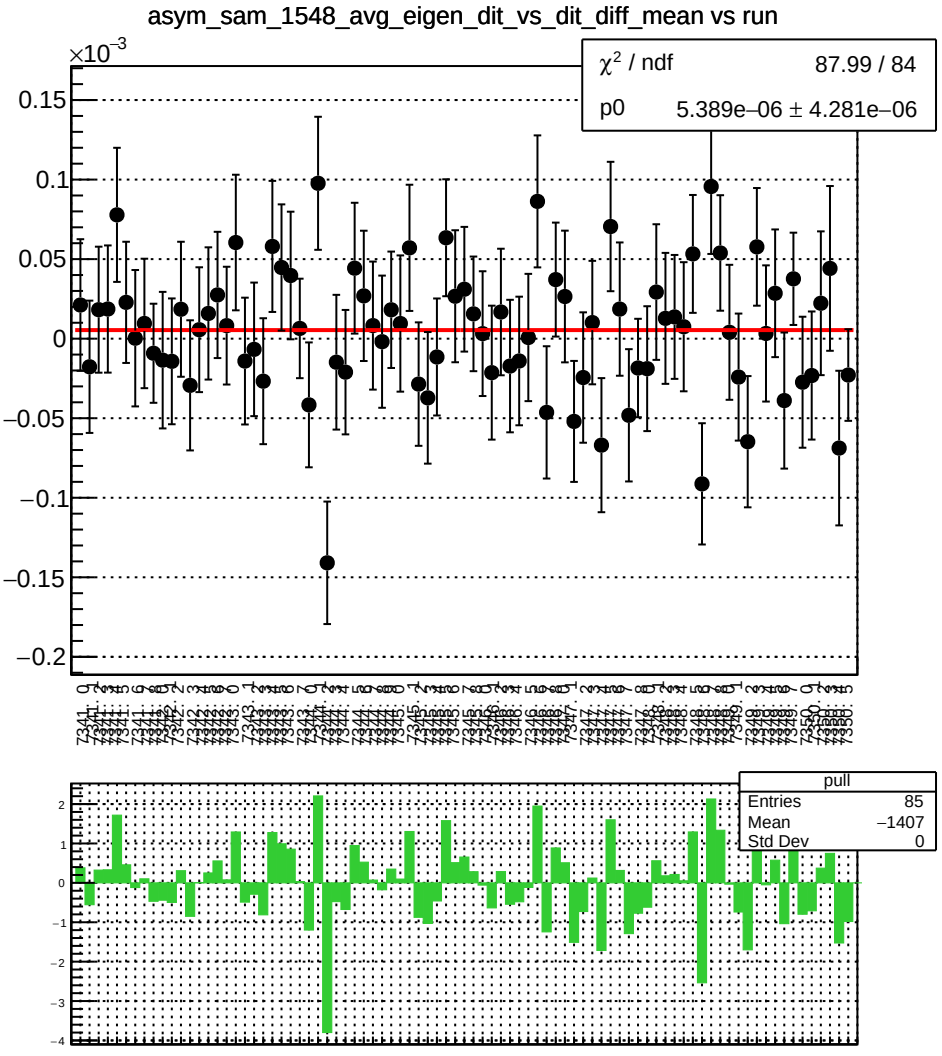

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.29e+06 / 84
p0 1.423e−11 ± 2.493e−14
0.1
0.08
0.06
0.04
0.02
0

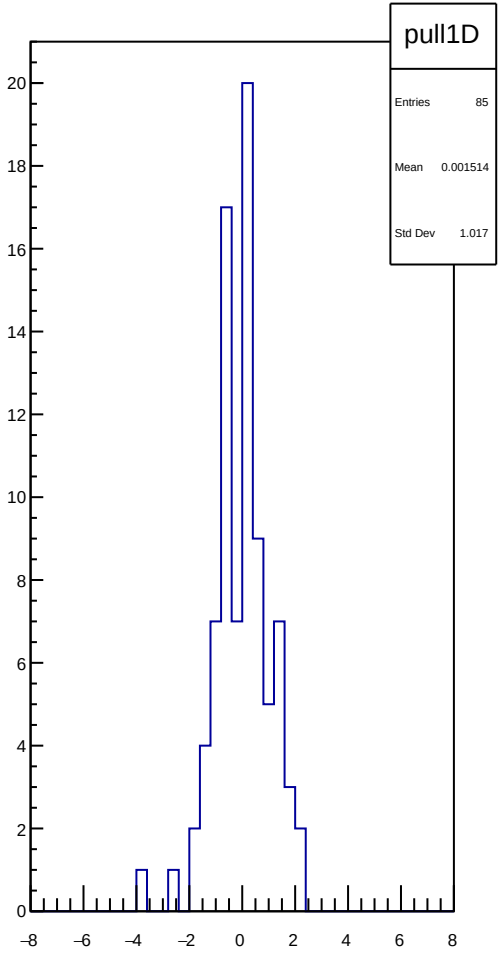

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.74 / 84
p0 −0.08552 ± 0.1556
pull
Entries 85
Mean 3.729
Std Dev 0
pull1D
Entries 85
Mean −0.02458
Std Dev 0.9498

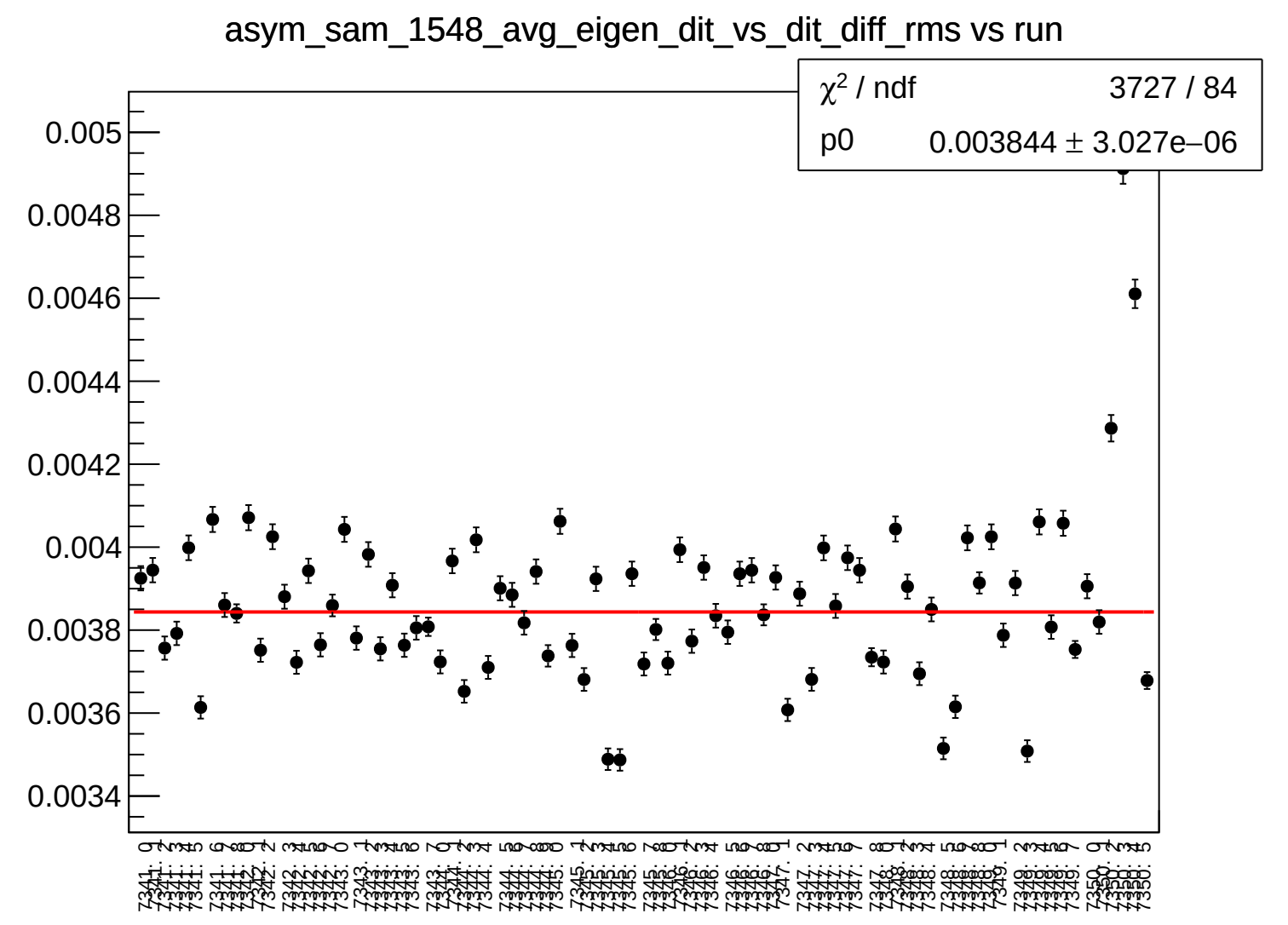

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.353e+04 / 84
p0 136.2 ± 0.11
400
350
300
250
200
150
100

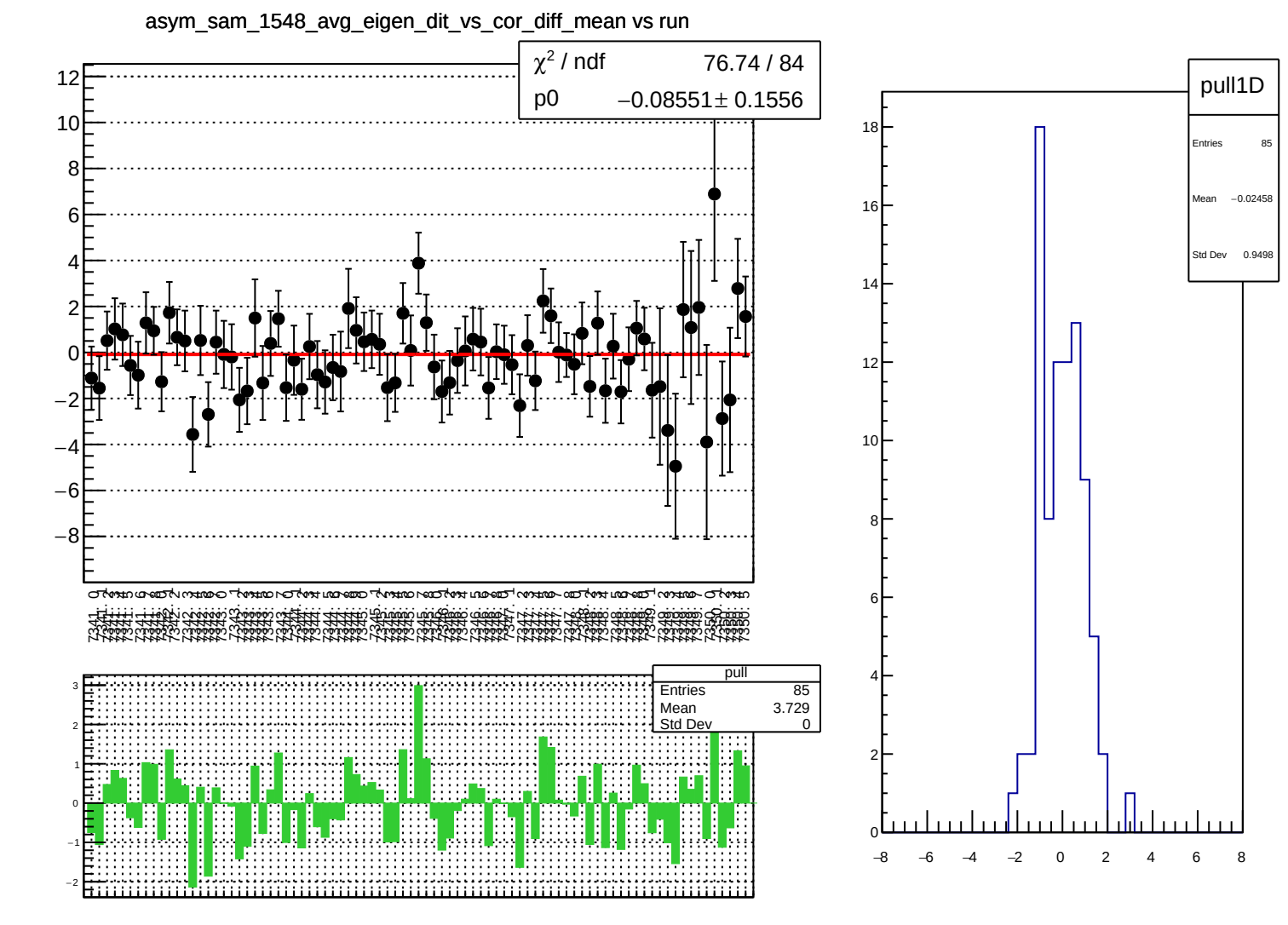

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.74 / 84
p0 −0.08552 ± 0.1556
pull
Entries 85
Mean 3.729
Std Dev 0
pull1D
Entries 85
Mean −0.02458
Std Dev 0.9498

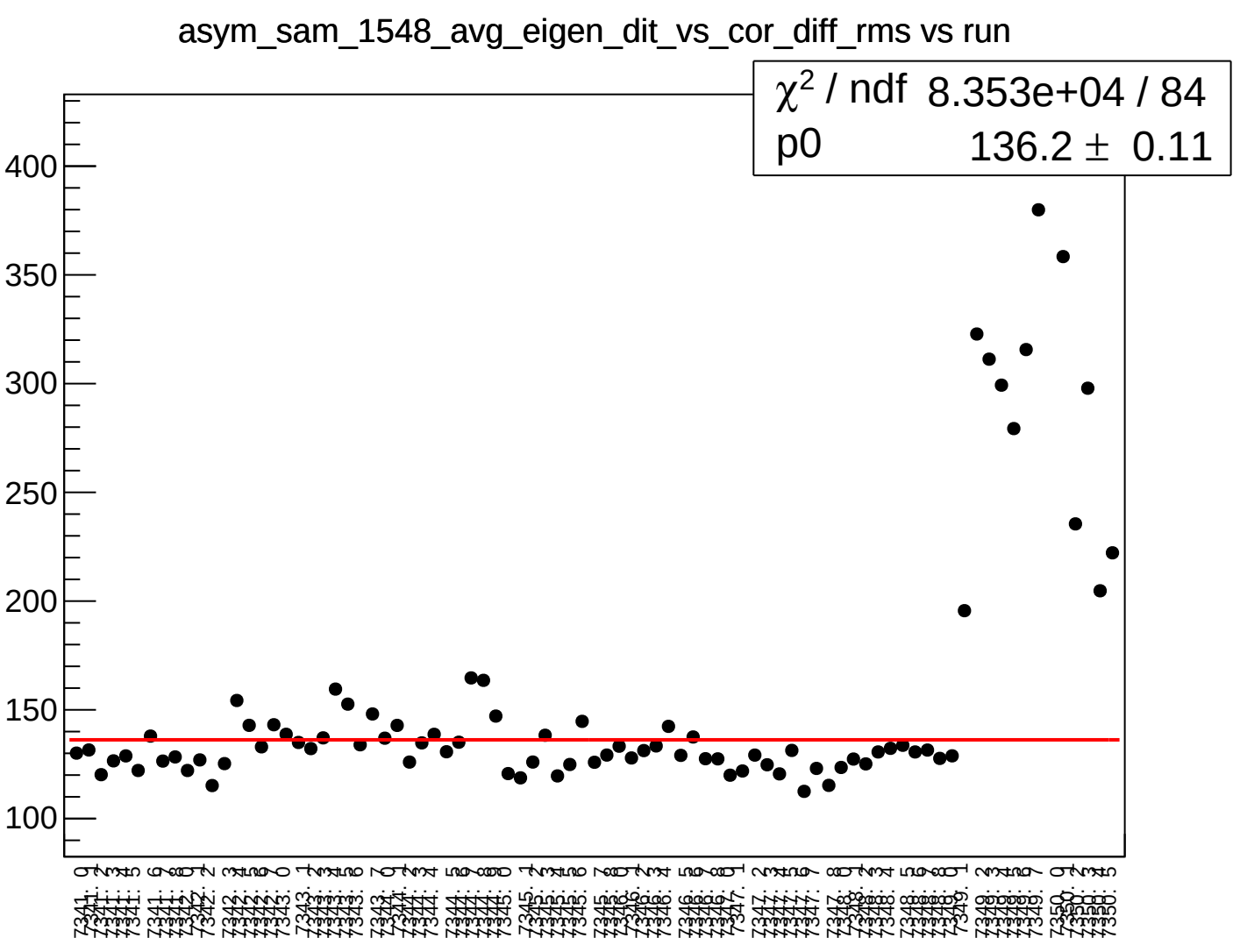

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.353e+04 / 84
p0 136.2 ± 0.11
400
350
300
250
200
150
100

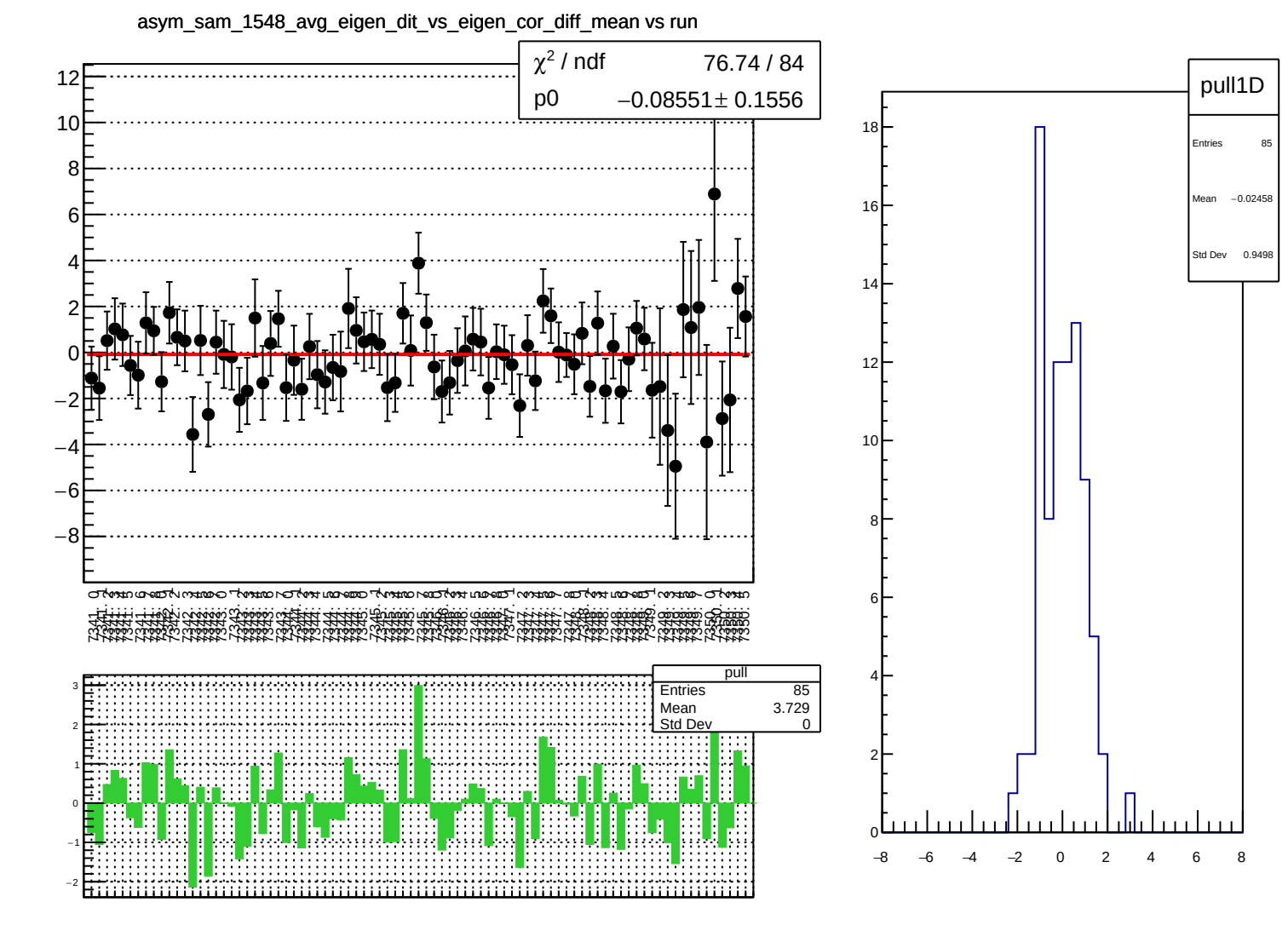

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.99 / 84
p0 5.389e−06 ± 4.281e−06
pull
Entries 85
Mean −1407
Std Dev 0

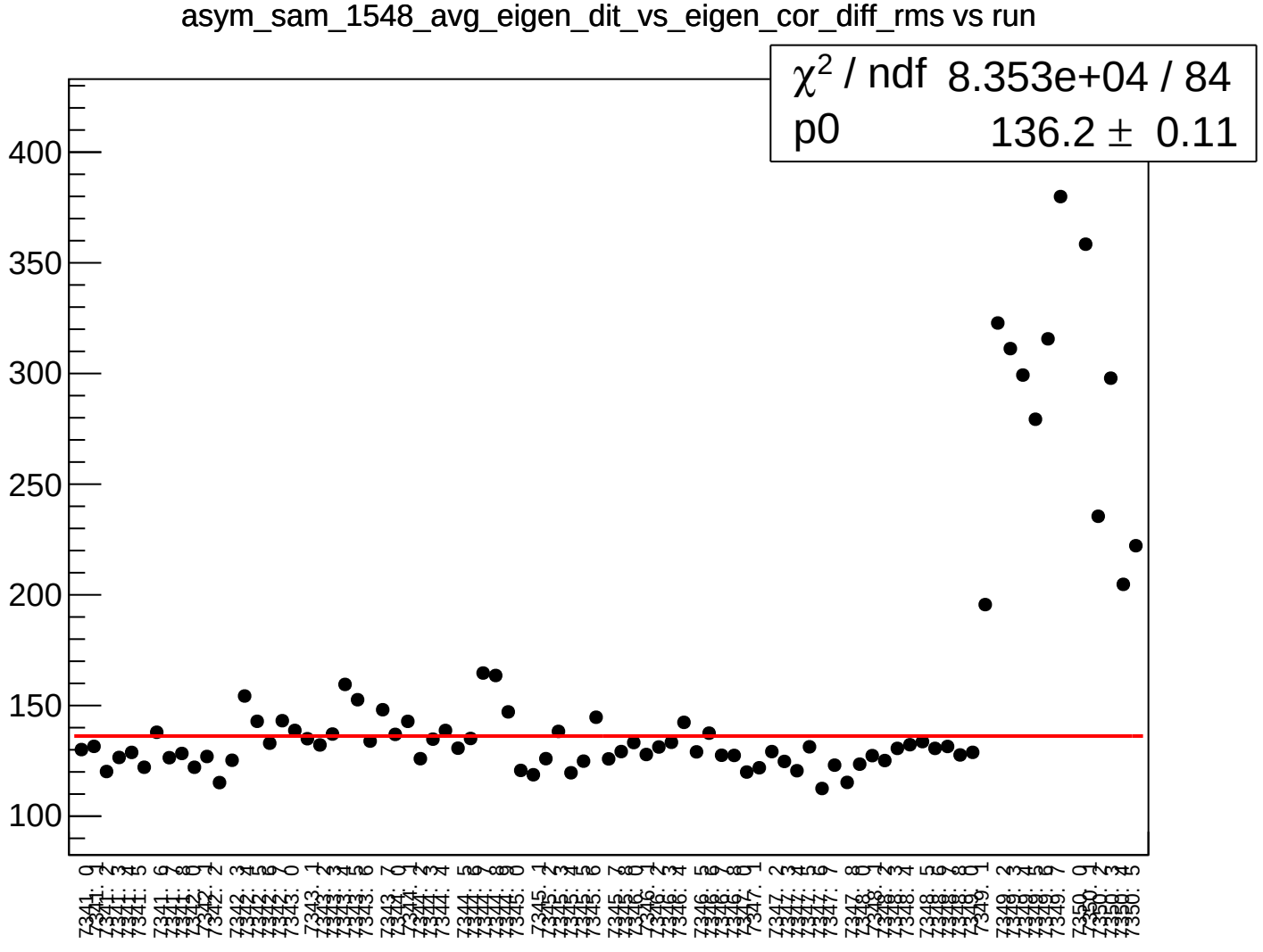

pull1D
Entries 85
Mean 0.001514
Std Dev 1.017

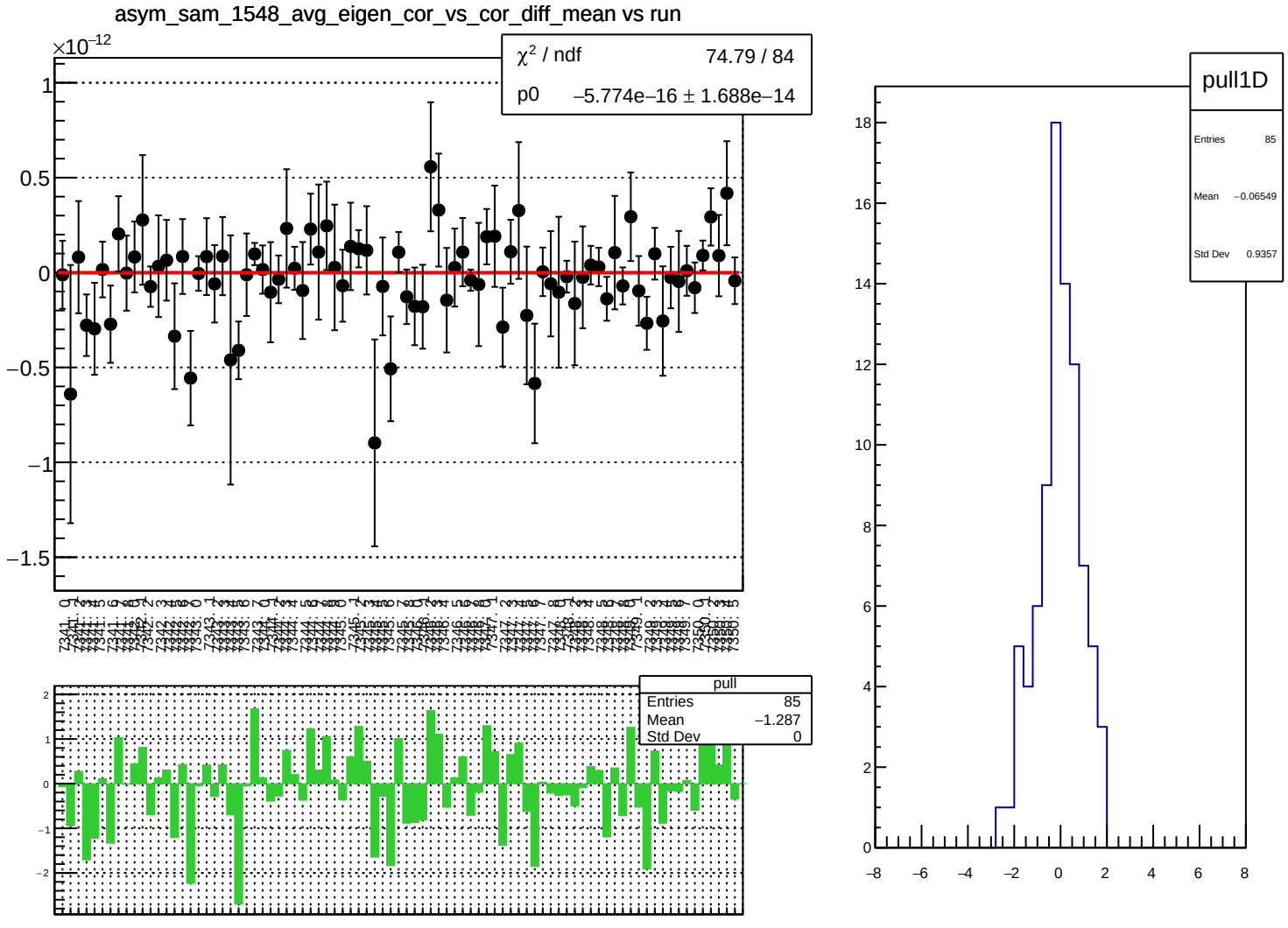

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3727 / 84
p0 0.003844 ± 3.027e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

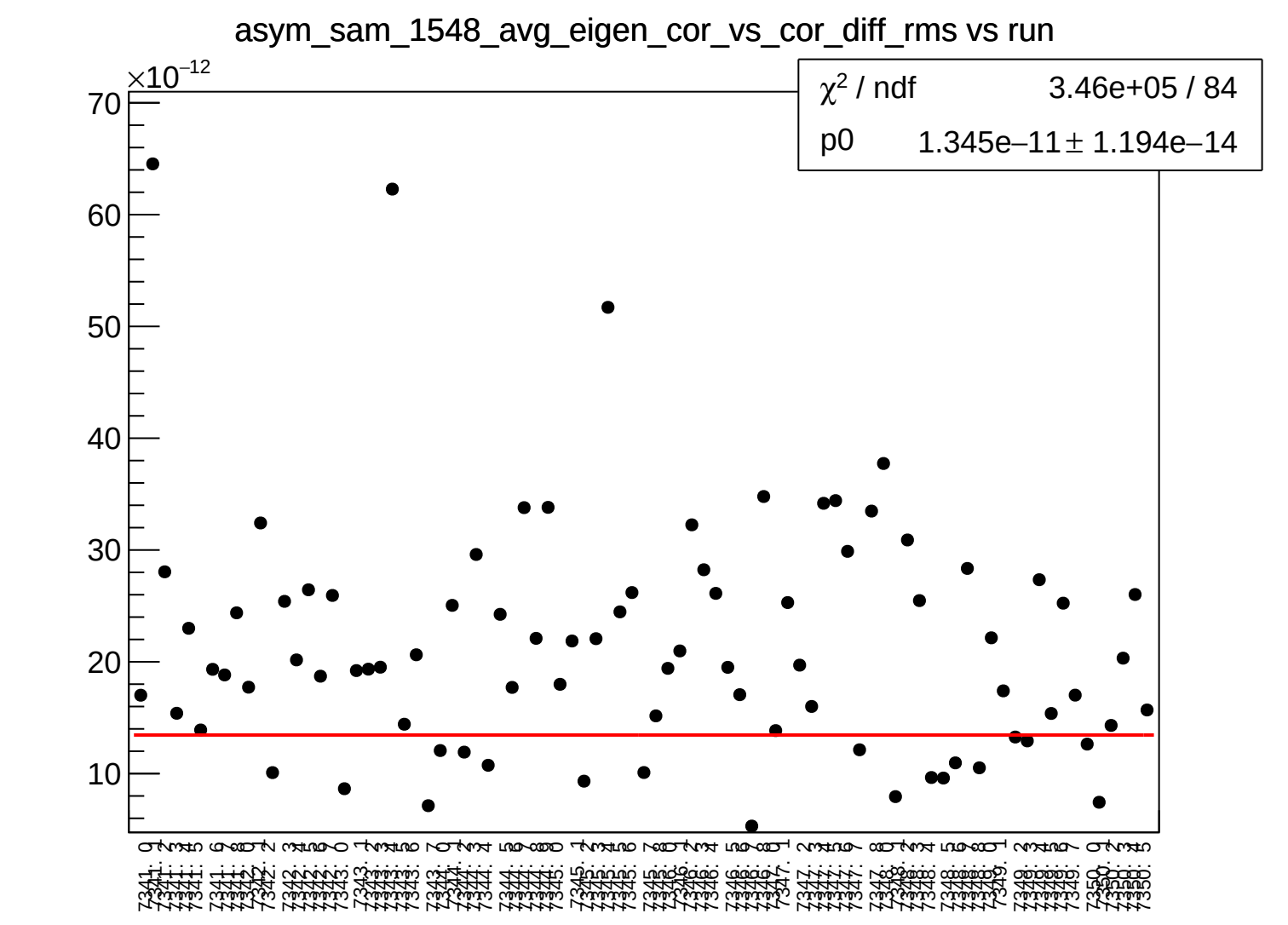

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.74 / 84
p0 −0.08551 ± 0.1556
pull
Entries 85
Mean 3.729
Std Dev 0
pull1D
Entries 85
Mean −0.02458
Std Dev 0.9498

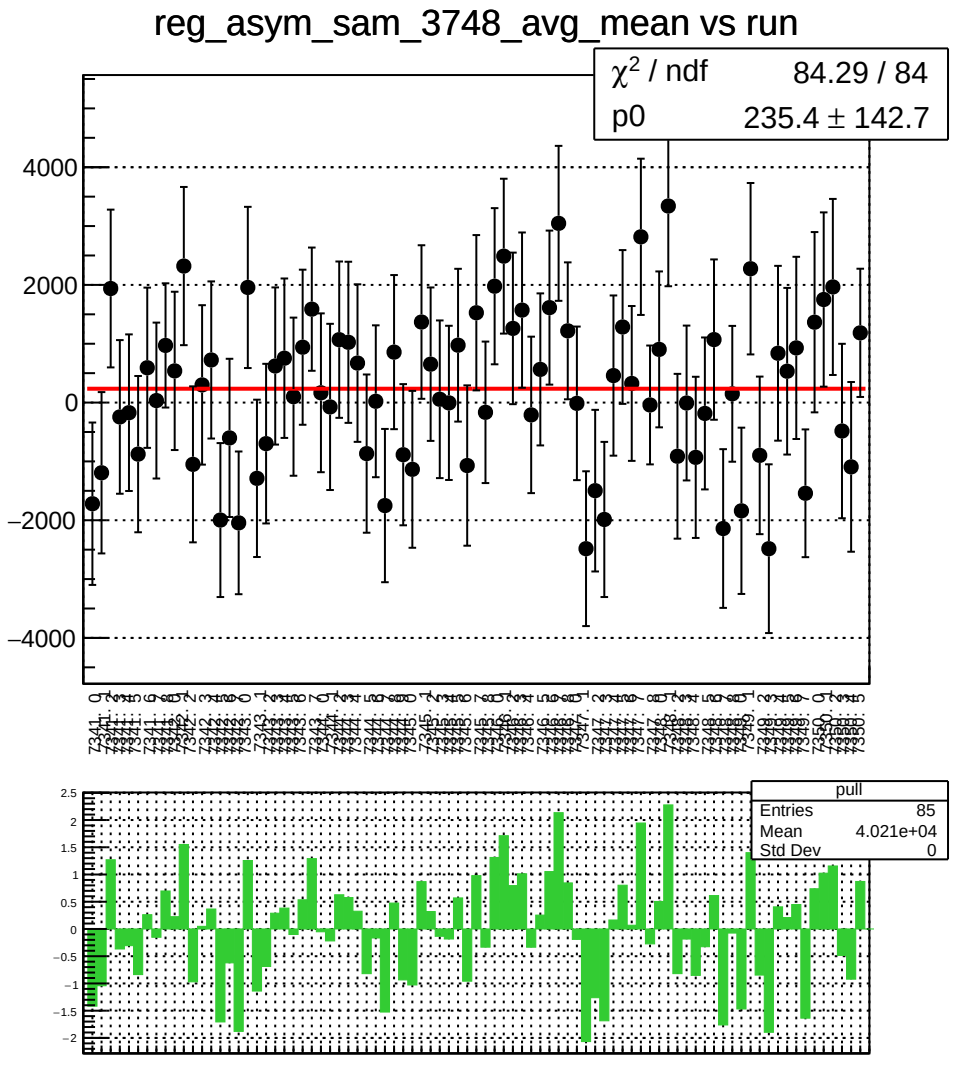

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.353e+04 / 84
p0 136.2 ± 0.11
400
350
300
250
200
150
100

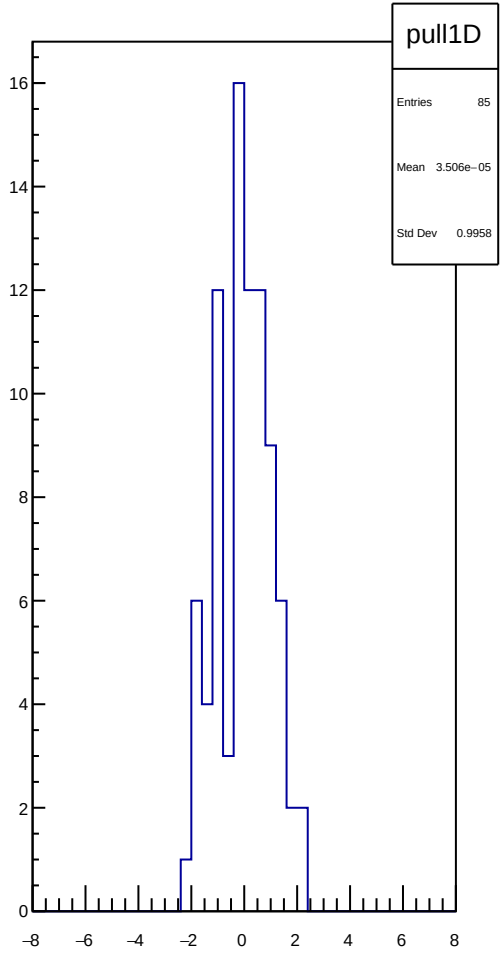

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.74 / 84
p0 −0.08551 ± 0.1556
pull
Entries 85
Mean 3.729
Std Dev 0
pull1D
Entries 85
Mean −0.02458
Std Dev 0.9498


asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.353e+04 / 84
p0 136.2 ± 0.11
400
350
300
250
200
150
100


asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 74.79 / 84
p0 −5.774e−16 ± 1.688e−14
pull
Entries 85
Mean −1.287
Std Dev 0
pull1D
Entries 85
Mean −0.06549
Std Dev 0.9357


asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 3.46e+05 / 84
p0 1.345e−11 ± 1.194e−14


reg_asym_sam_3748_avg_mean vs run
χ² / ndf 84.29 / 84
p0 235.4 ± 142.7
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 4.021e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 85
Mean 3.506e−05
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
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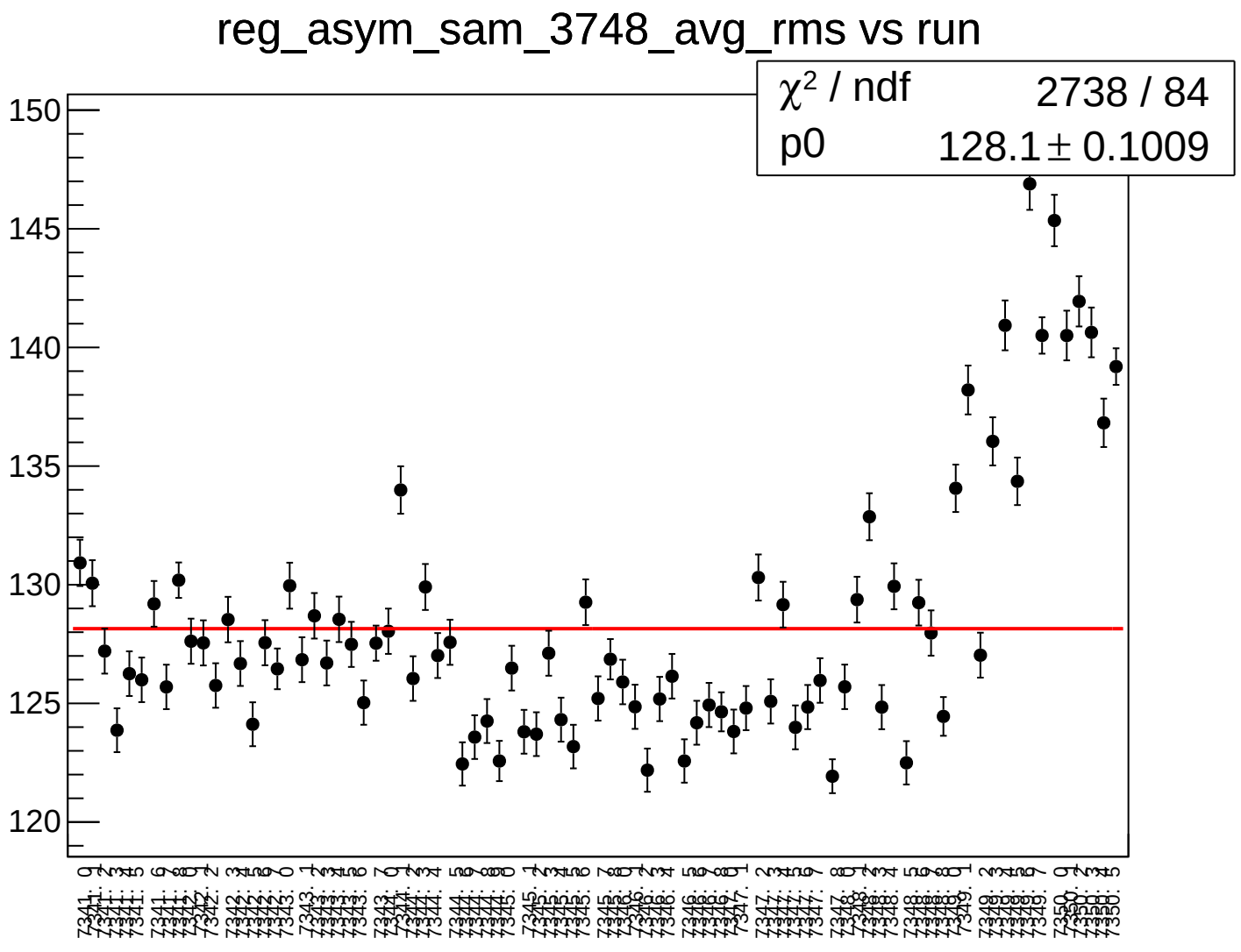
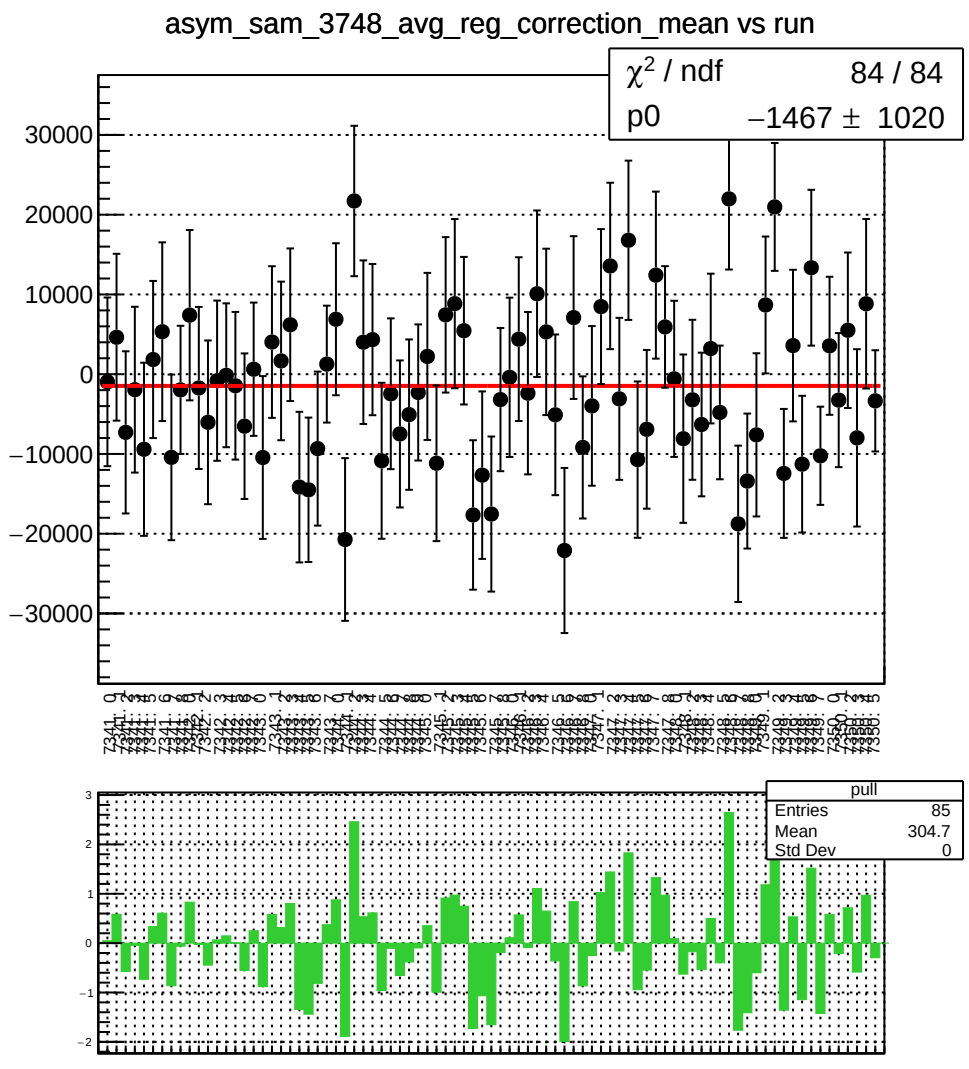
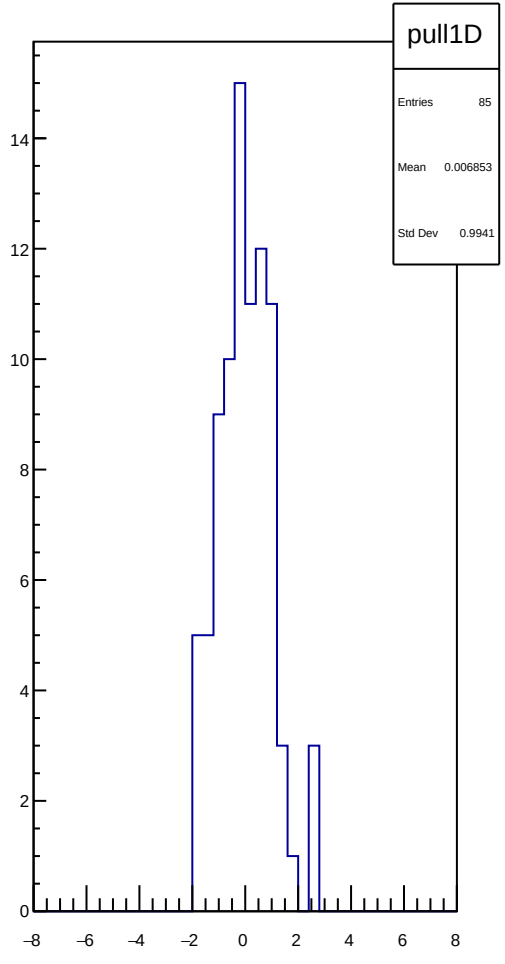
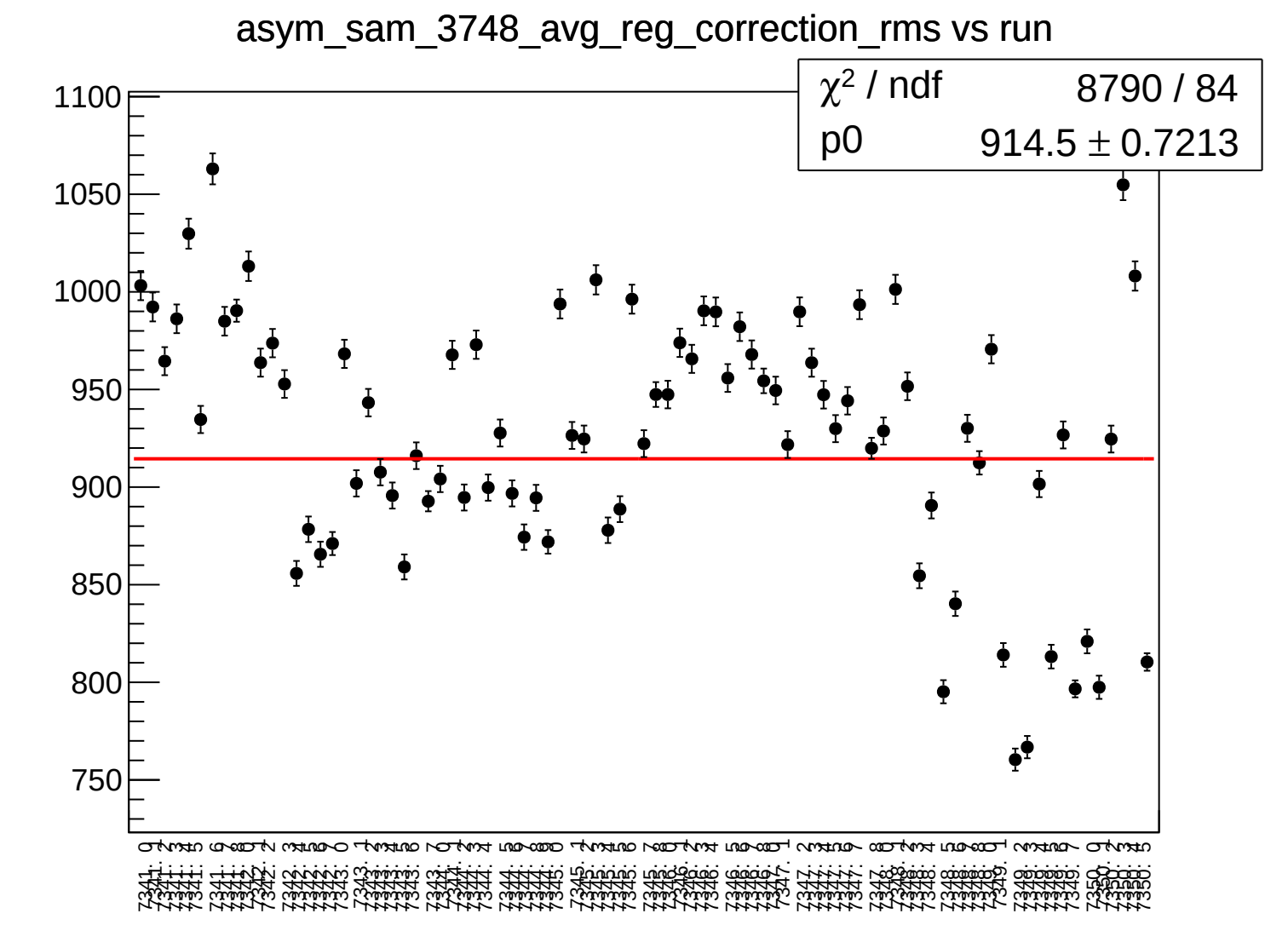
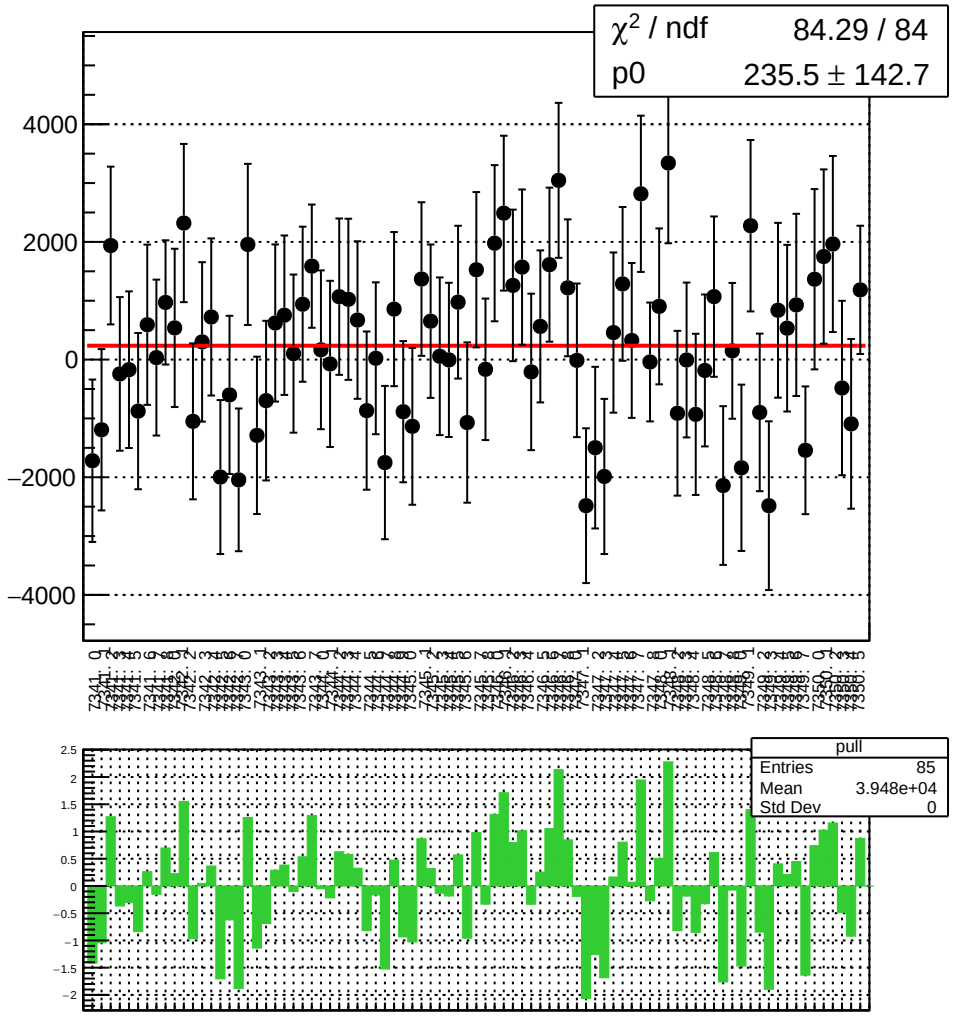
−4
−2
0
2
4
6
8

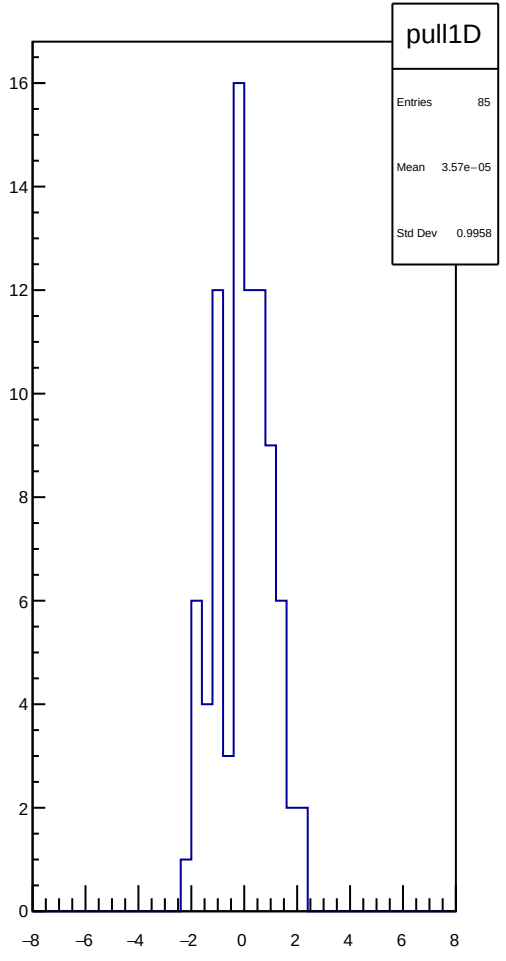

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2738 / 84
p0 128.1 ± 0.1009
150
145
140
135
130
125
120

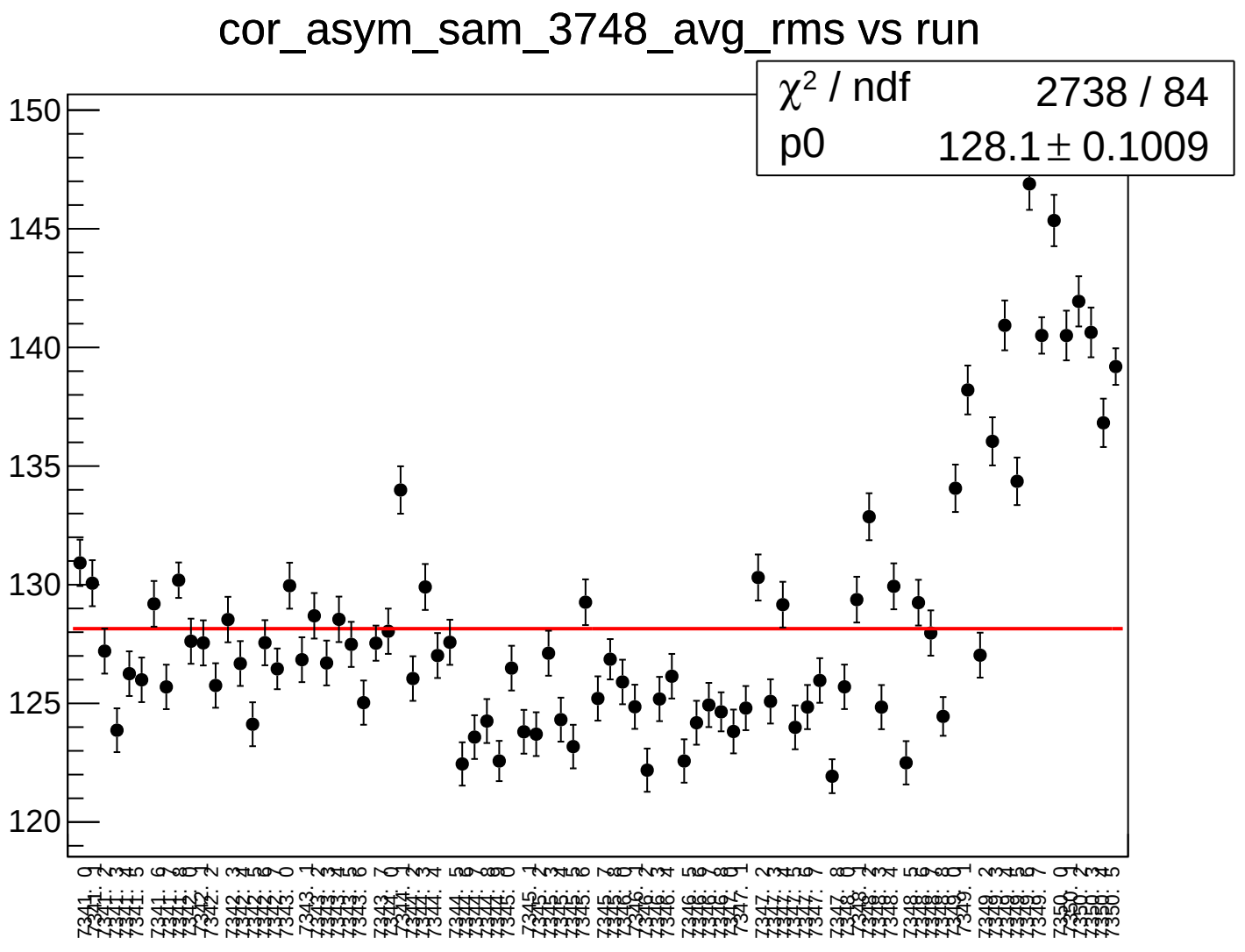

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 84 / 84
p0 −1467 ± 1020
pull
Entries 85
Mean 304.7
Std Dev 0

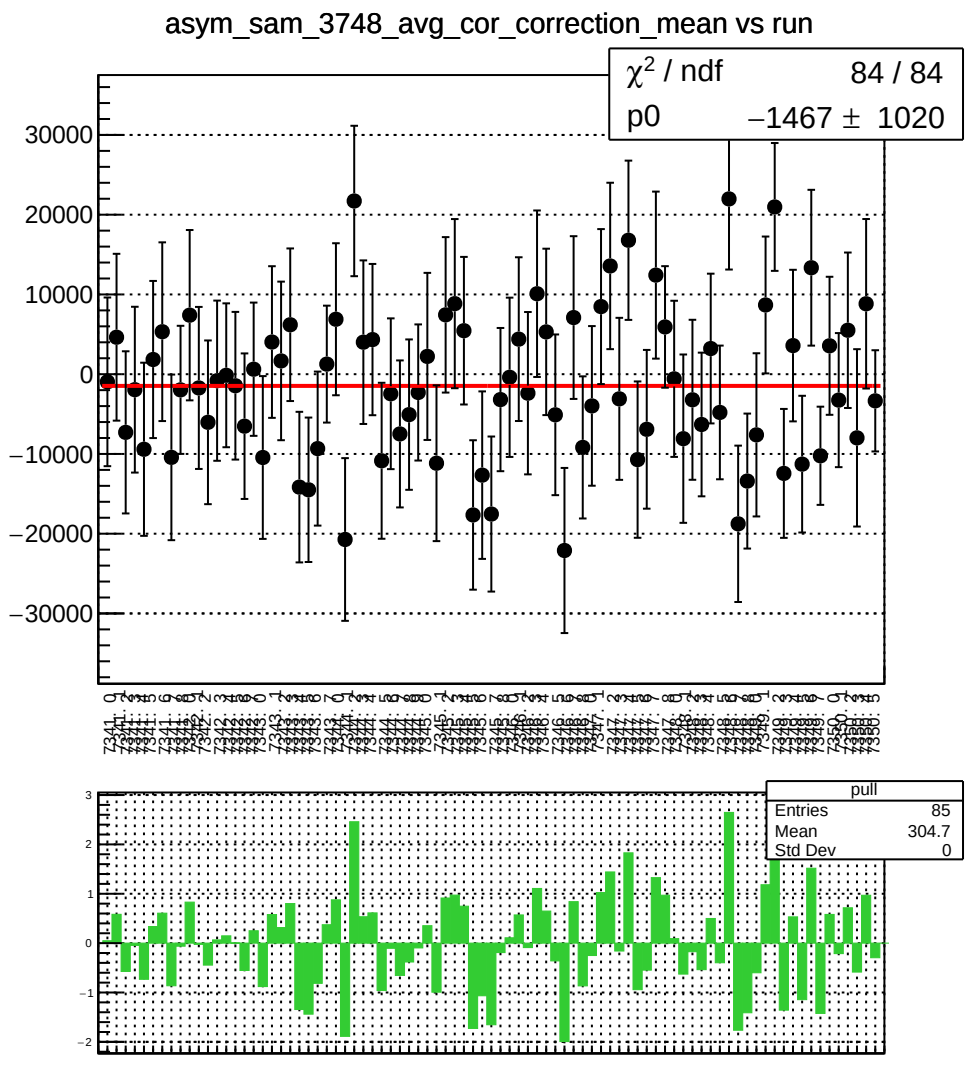

pull1D
Entries 85
Mean 0.006853
Std Dev 0.9941

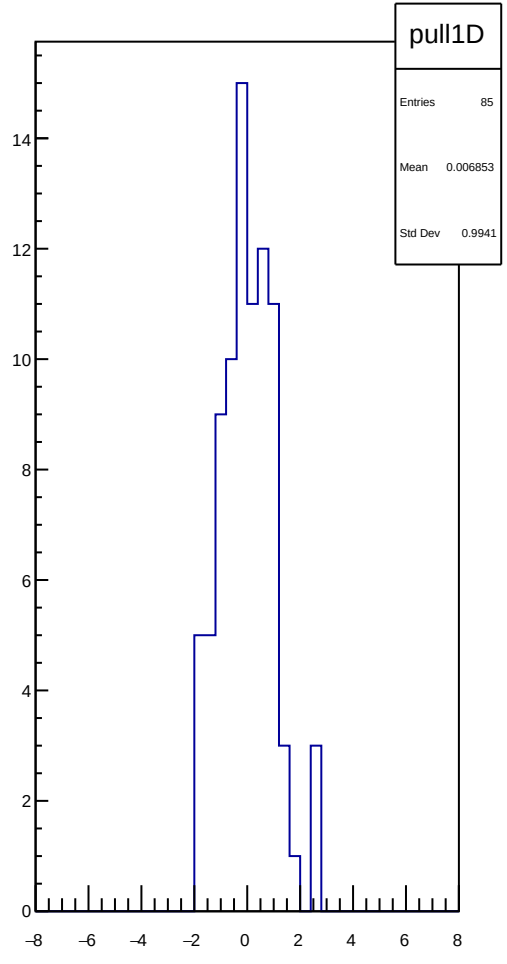

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 8790 / 84
p0 914.5 ± 0.7213
1100
1050
1000
950
900
850
800
750

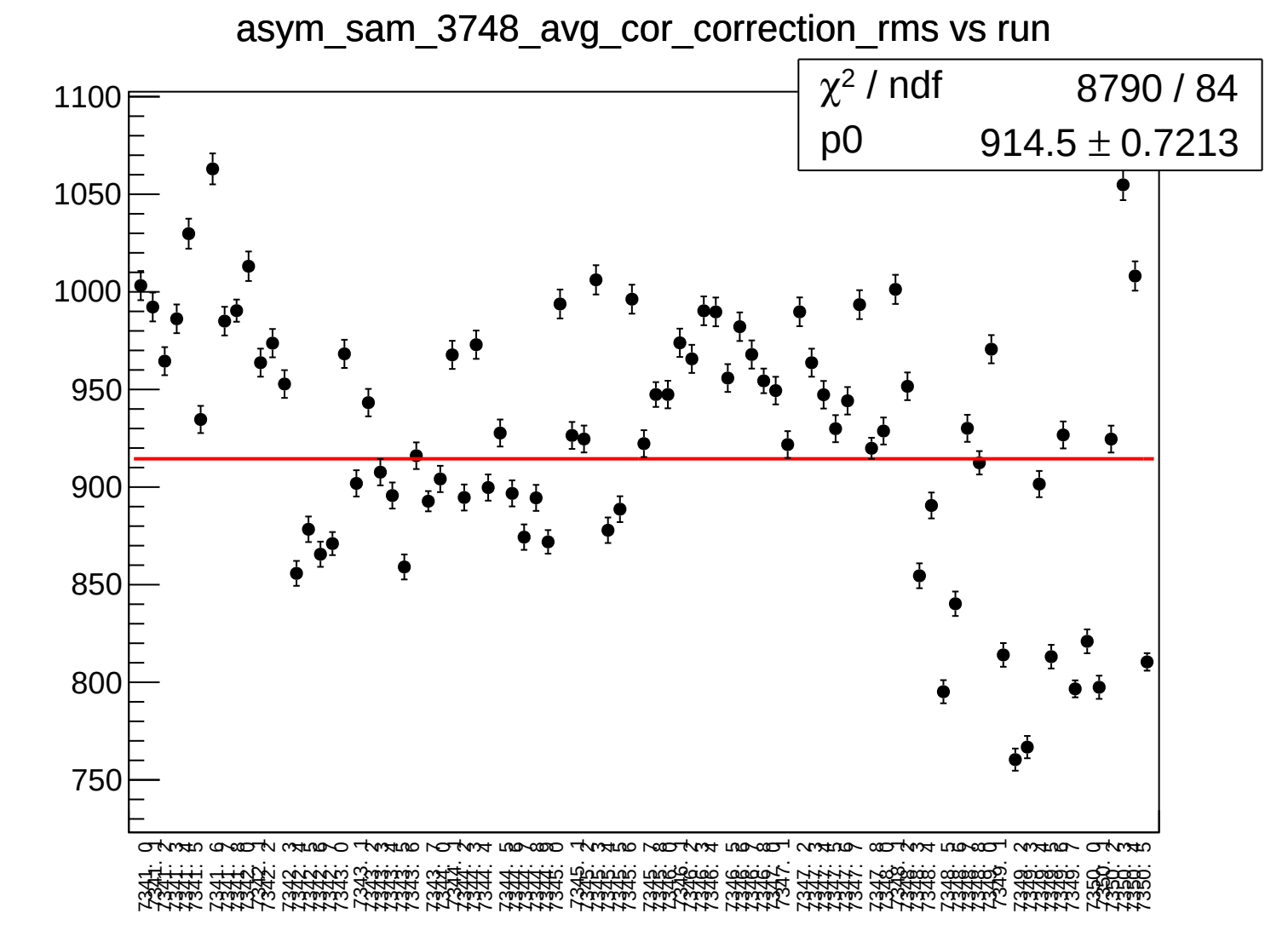

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 84.29 / 84
p0 235.5 ± 142.7
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 3.948e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

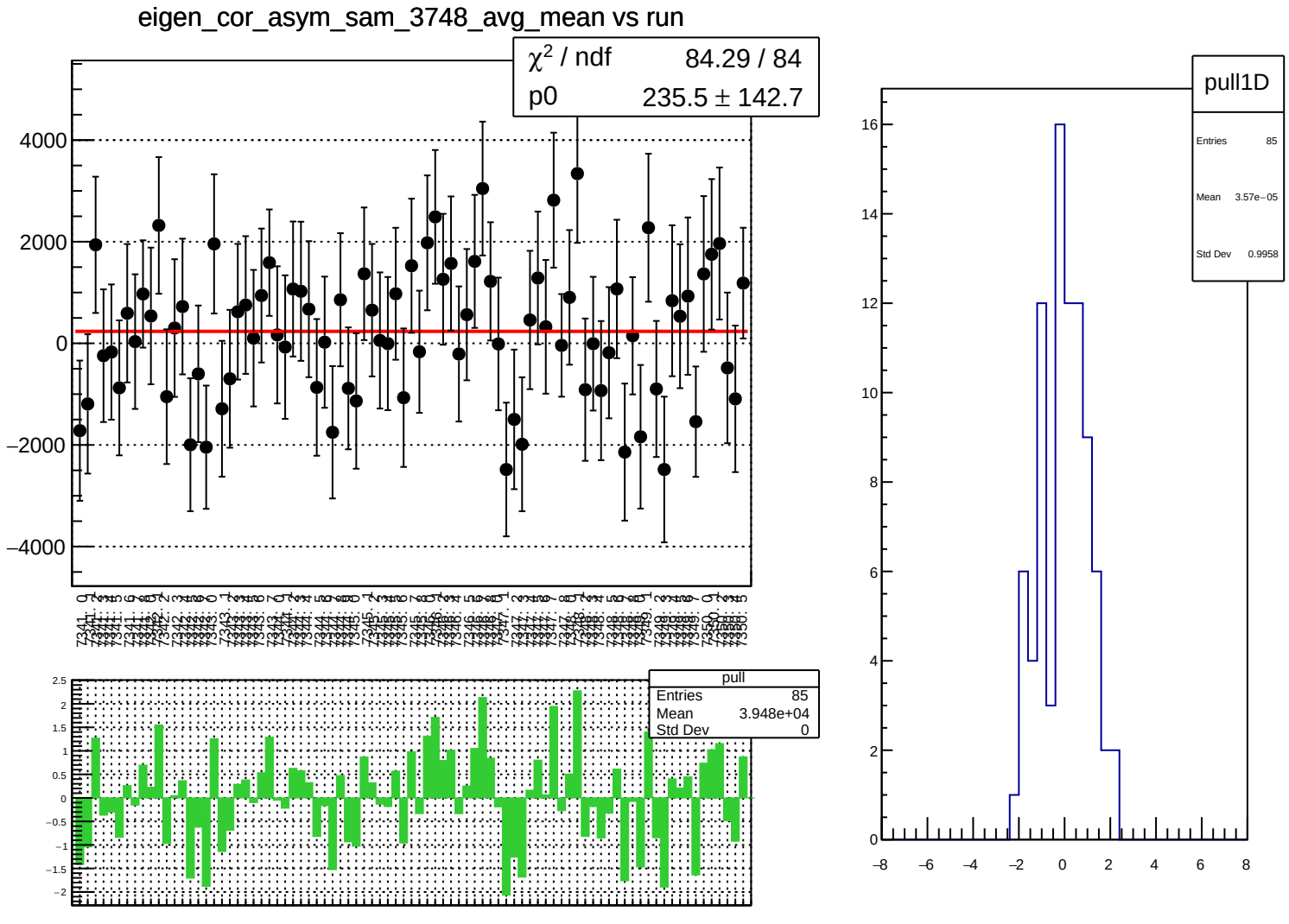

pull1D
Entries 85
Mean 3.57e−05
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

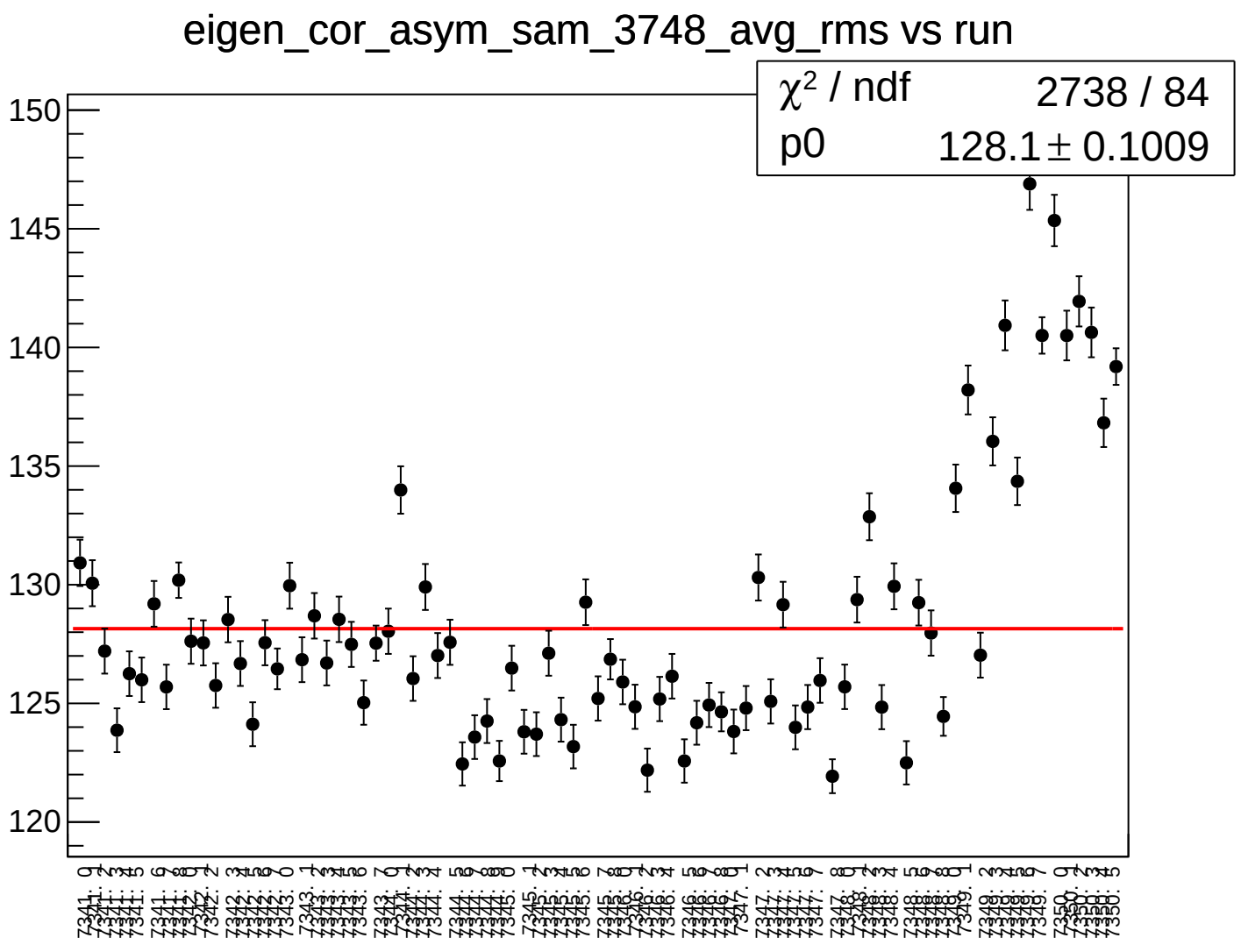

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2738 / 84
p0 128.1 ± 0.1009
150
145
140
135
130
125
120

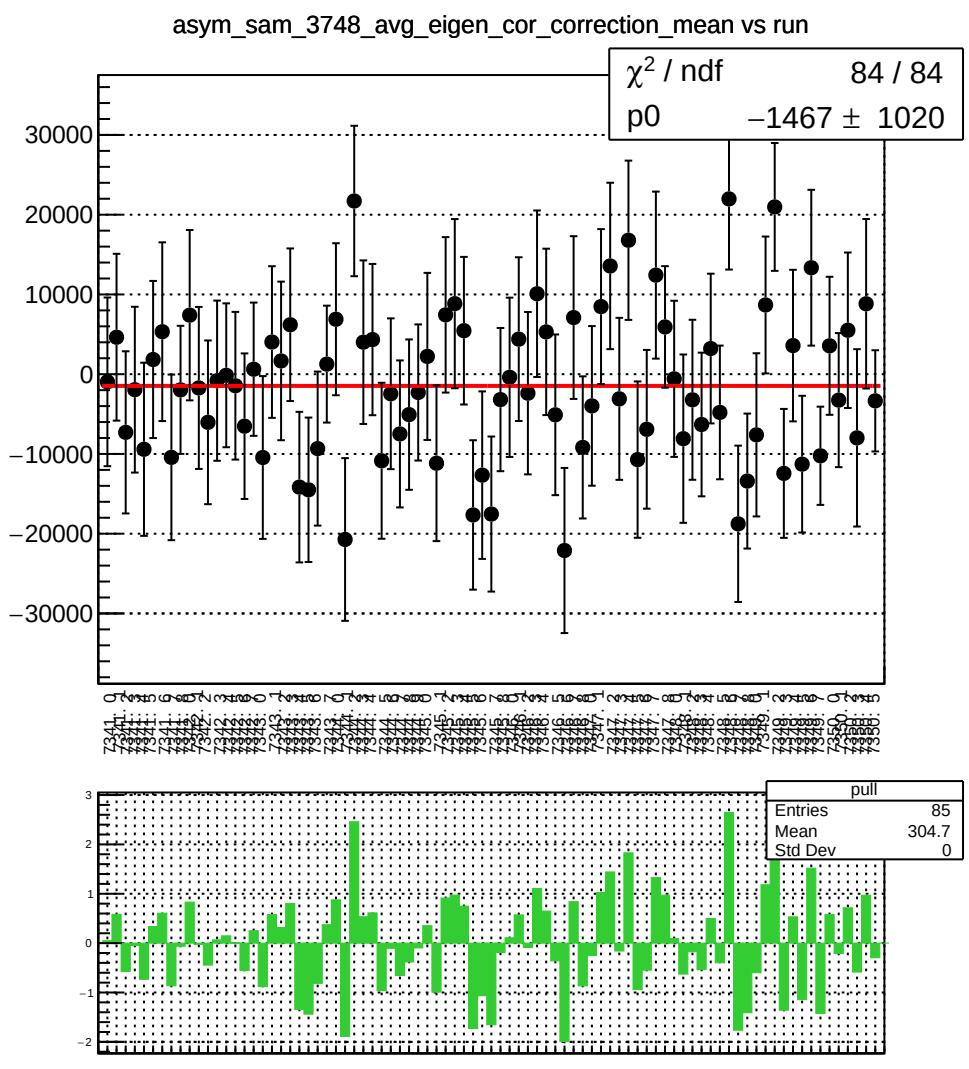

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 84 / 84
p0 −1467 ± 1020
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 304.7
Std Dev 0
3
2
1
0
−1
−2

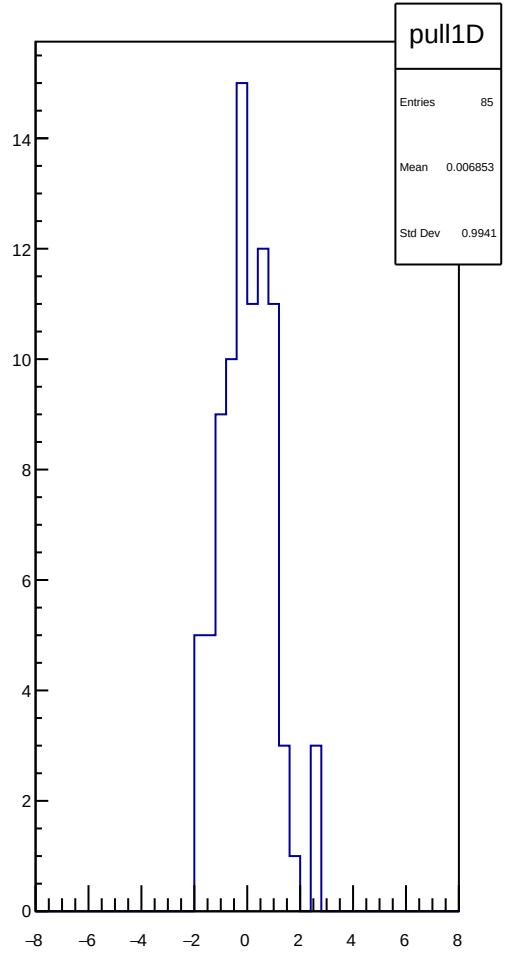

pull1D
Entries 85
Mean 0.006853
Std Dev 0.9941
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

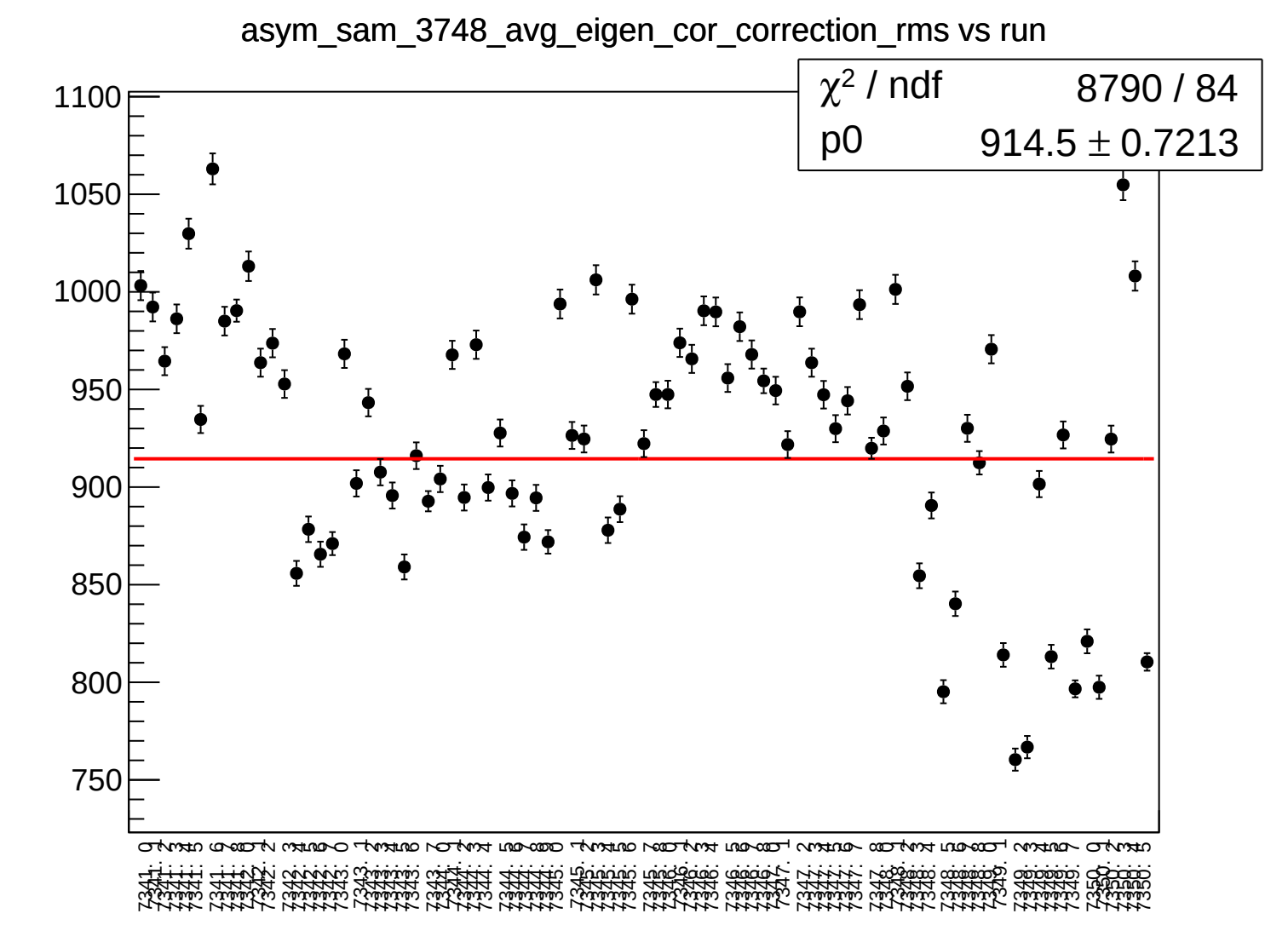

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 8790 / 84
p0 914.5 ± 0.7213
1100
1050
1000
950
900
850
800
750

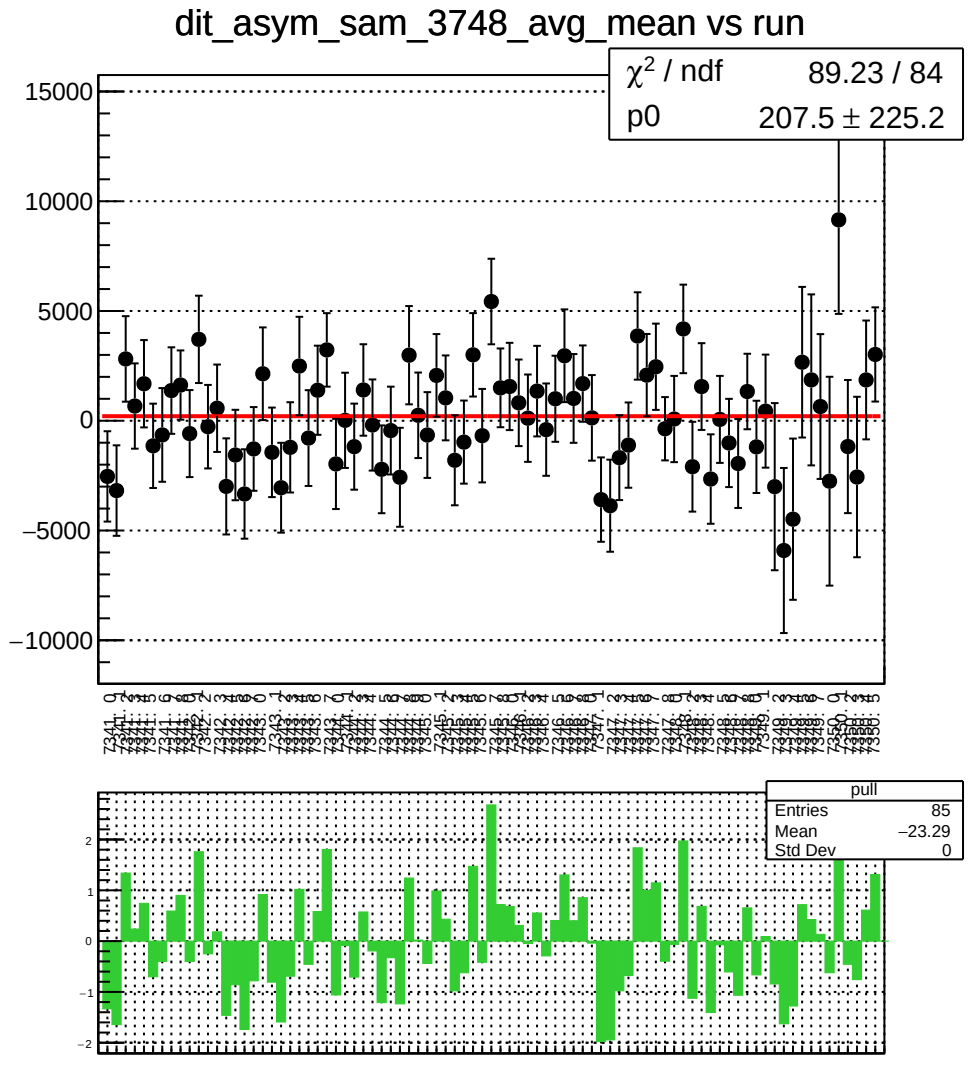

eigen_cor_asym_sam_3748_avg_mean vs run
χ^2 / ndf 84.29 / 84
p0 235.5 ± 142.7
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 3.948e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 3.57e−05
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

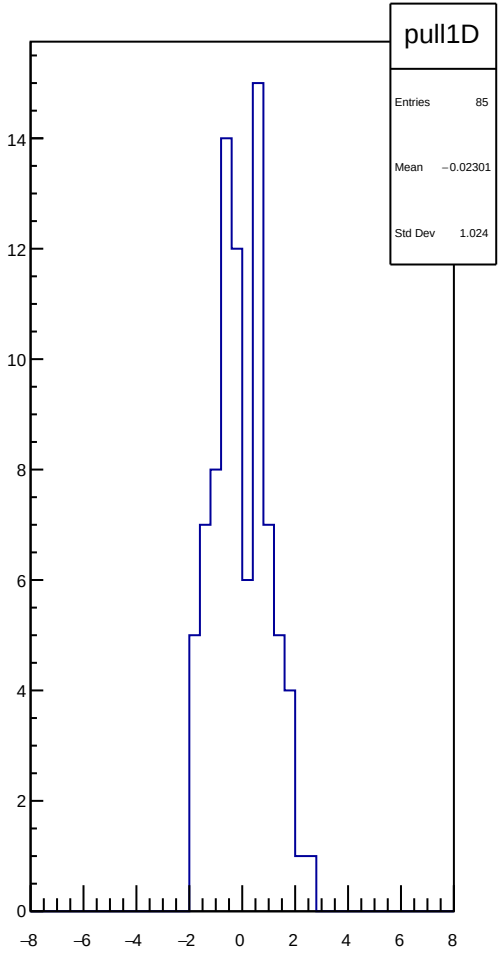

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2738 / 84
p0 128.1 ± 0.1009
150
145
140
135
130
125
120

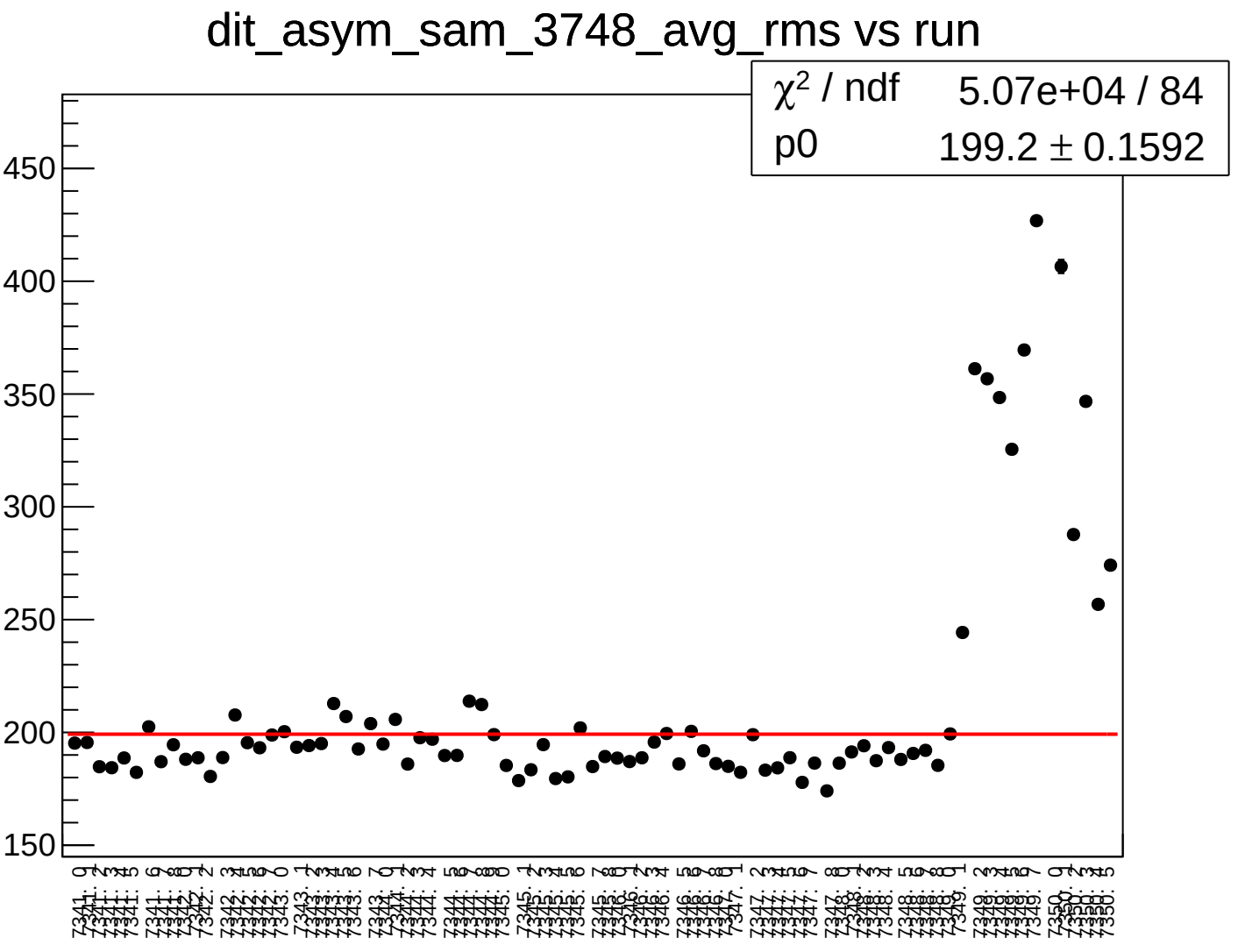

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 84 / 84
p0 −1467 ± 1020
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 304.7
Std Dev 0
3
2
1
0
−1
−2

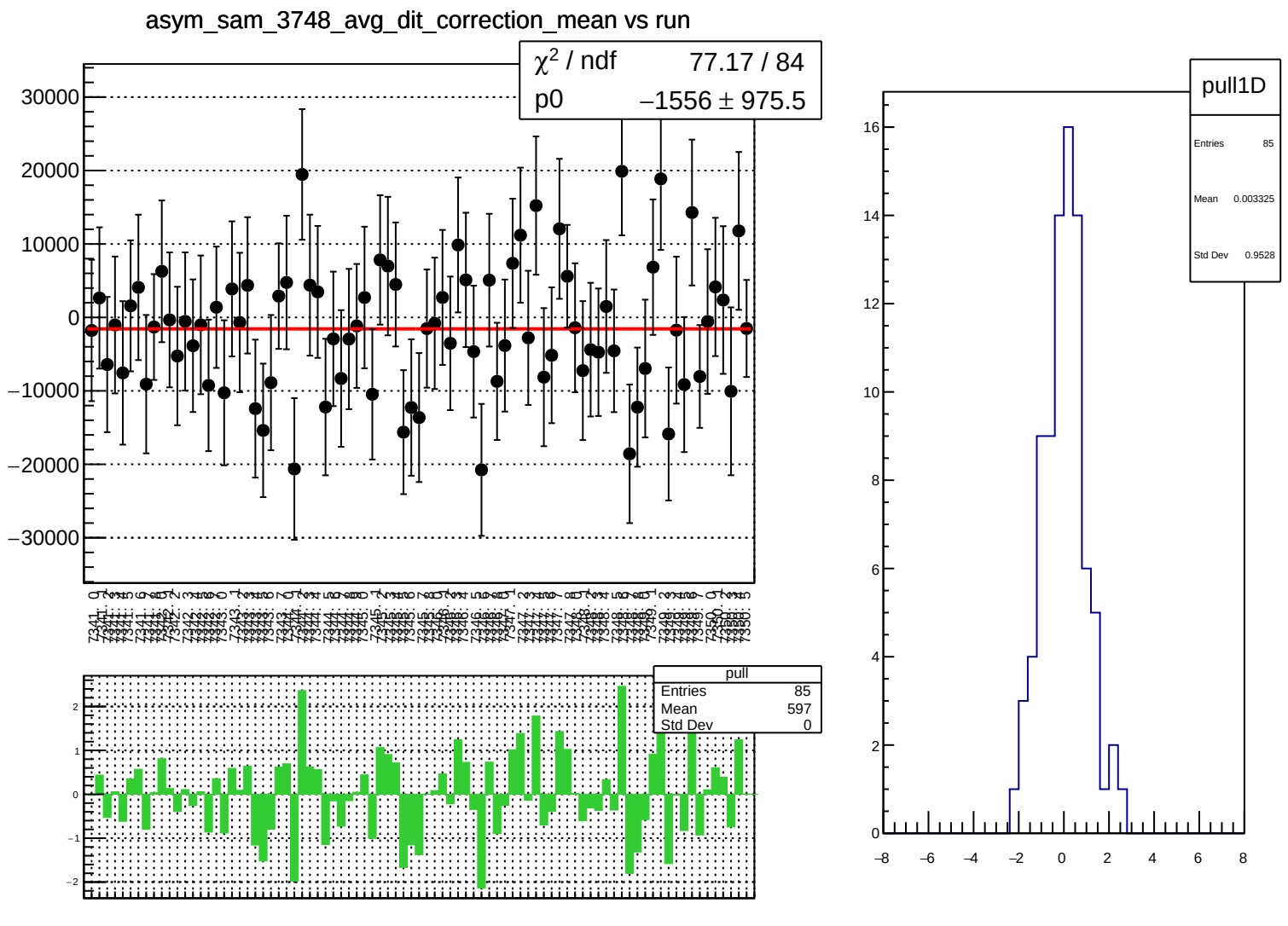

pull1D
Entries 85
Mean 0.006853
Std Dev 0.9941
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

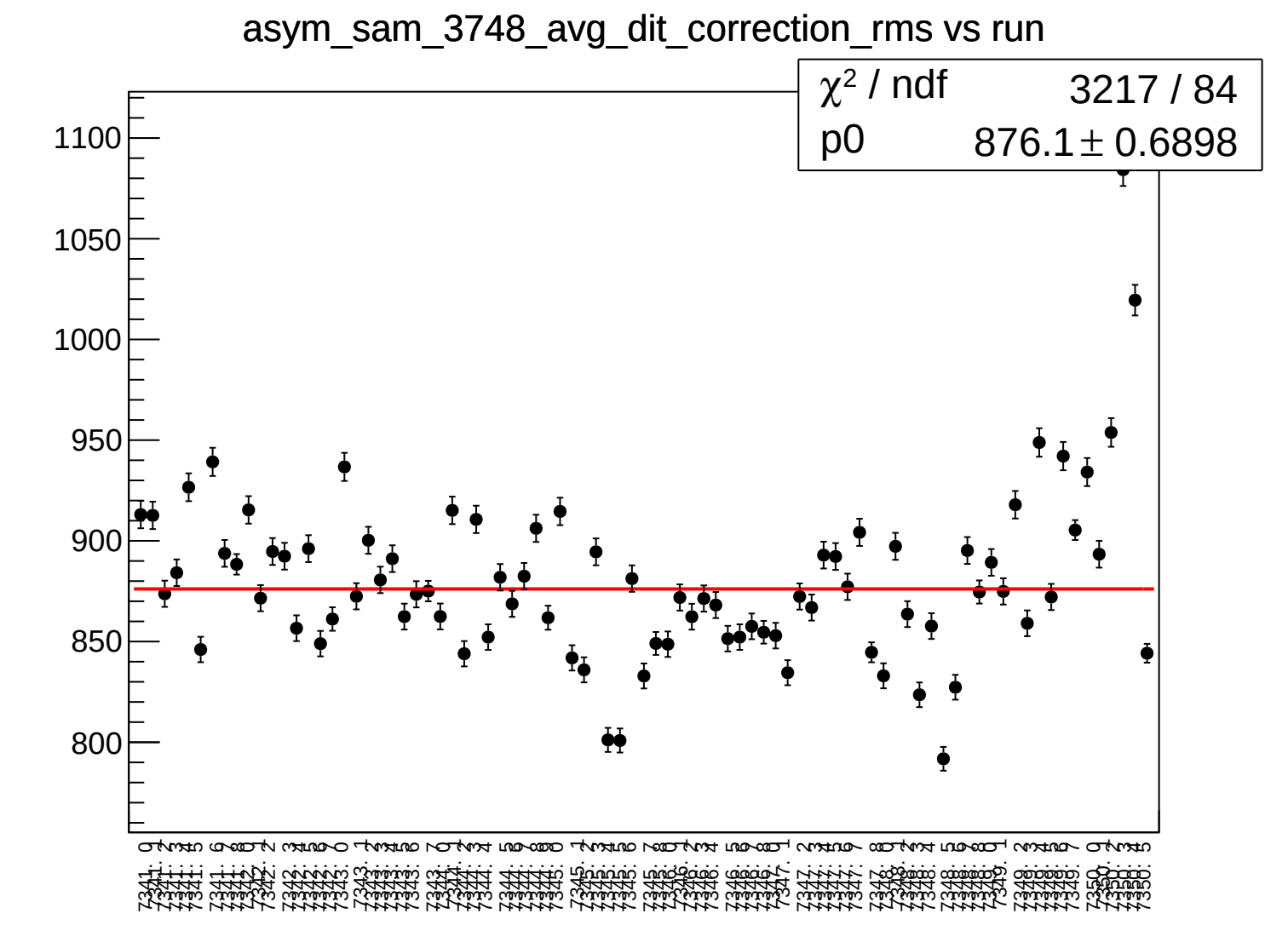

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 8790 / 84
p0 914.5 ± 0.7213
1100
1050
1000
950
900
850
800
750

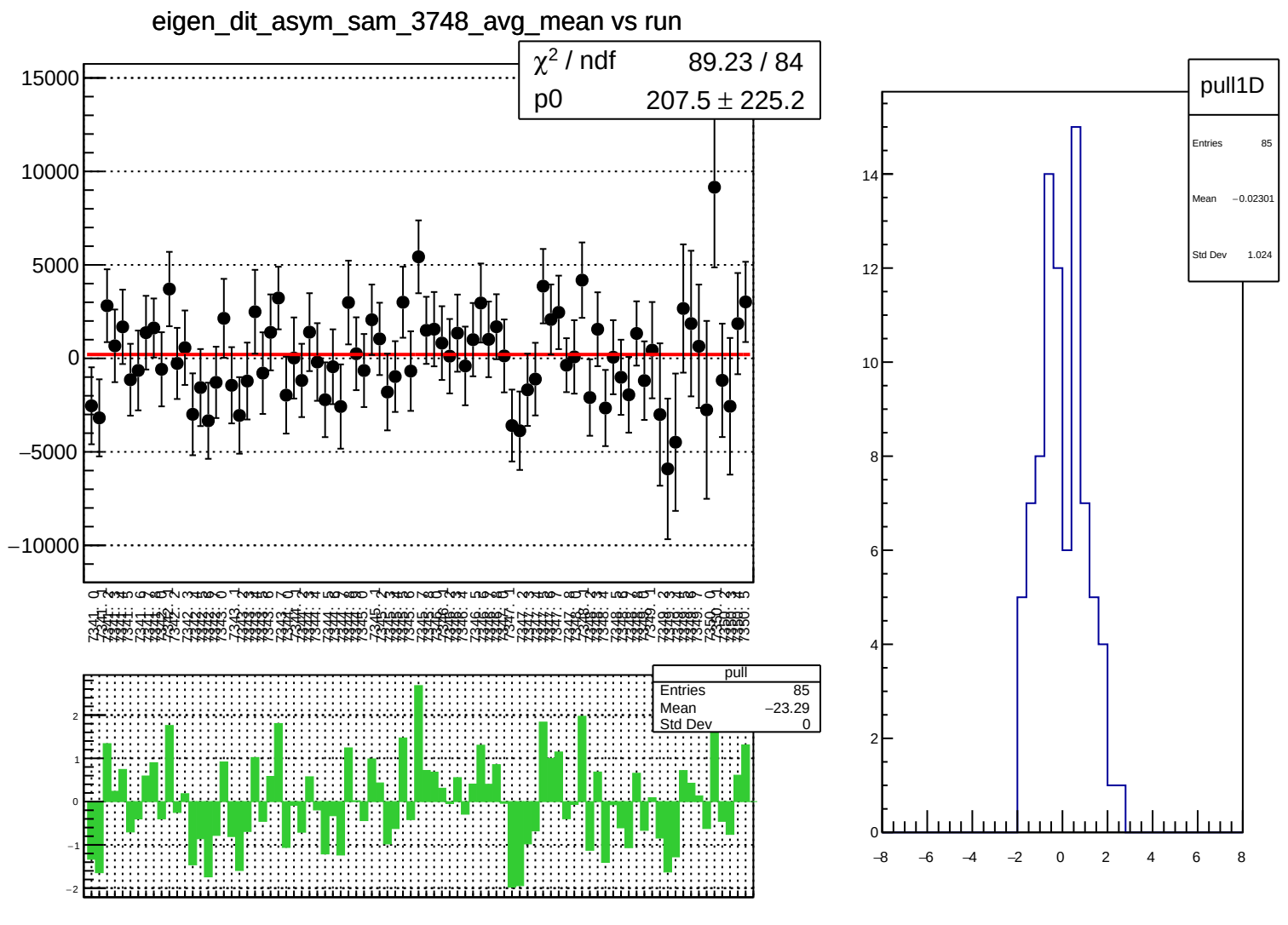

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 89.23 / 84
p0 207.5 ± 225.2
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −23.29
Std Dev 0
2
1
0
−1
−2

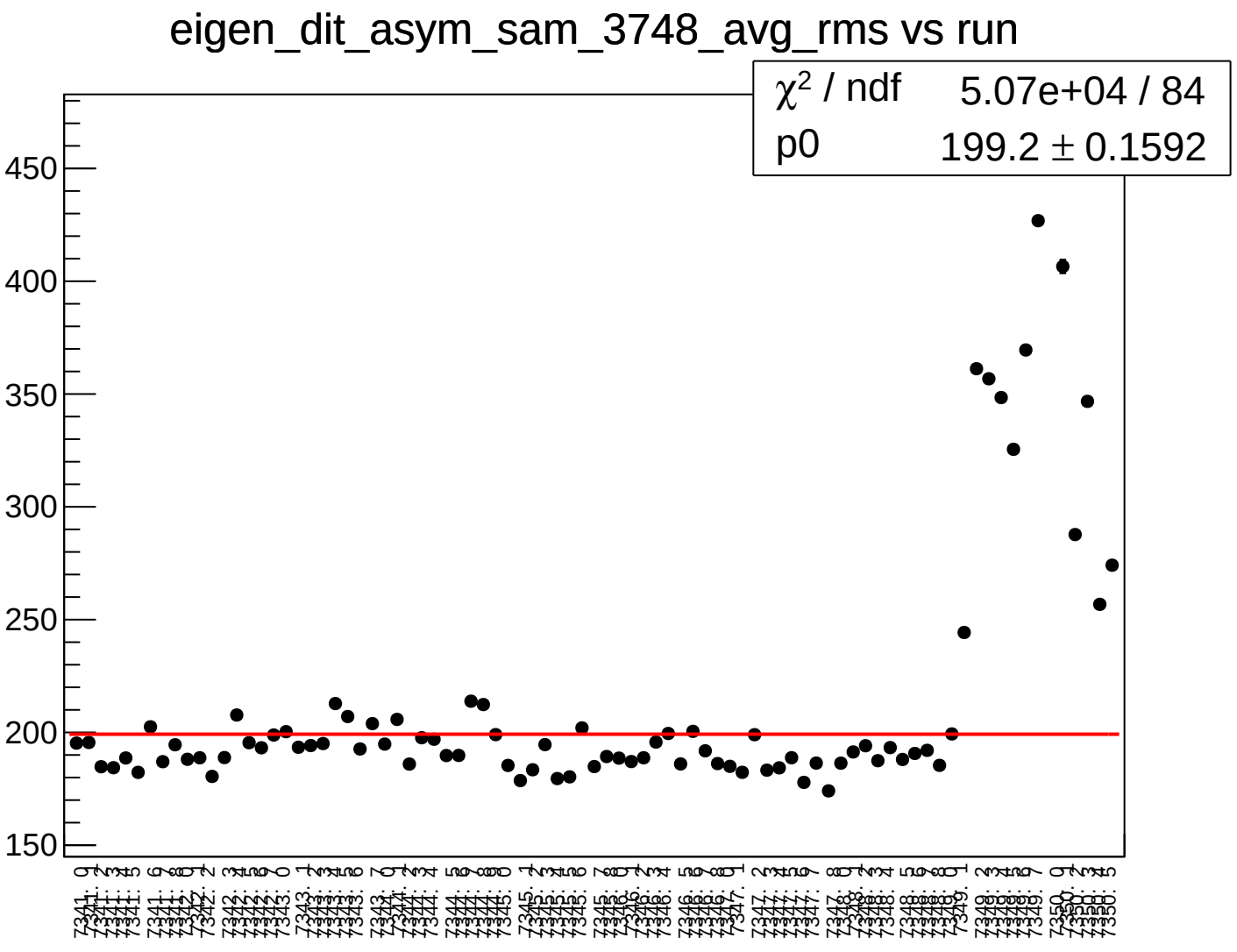

pull1D
Entries 85
Mean −0.02301
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

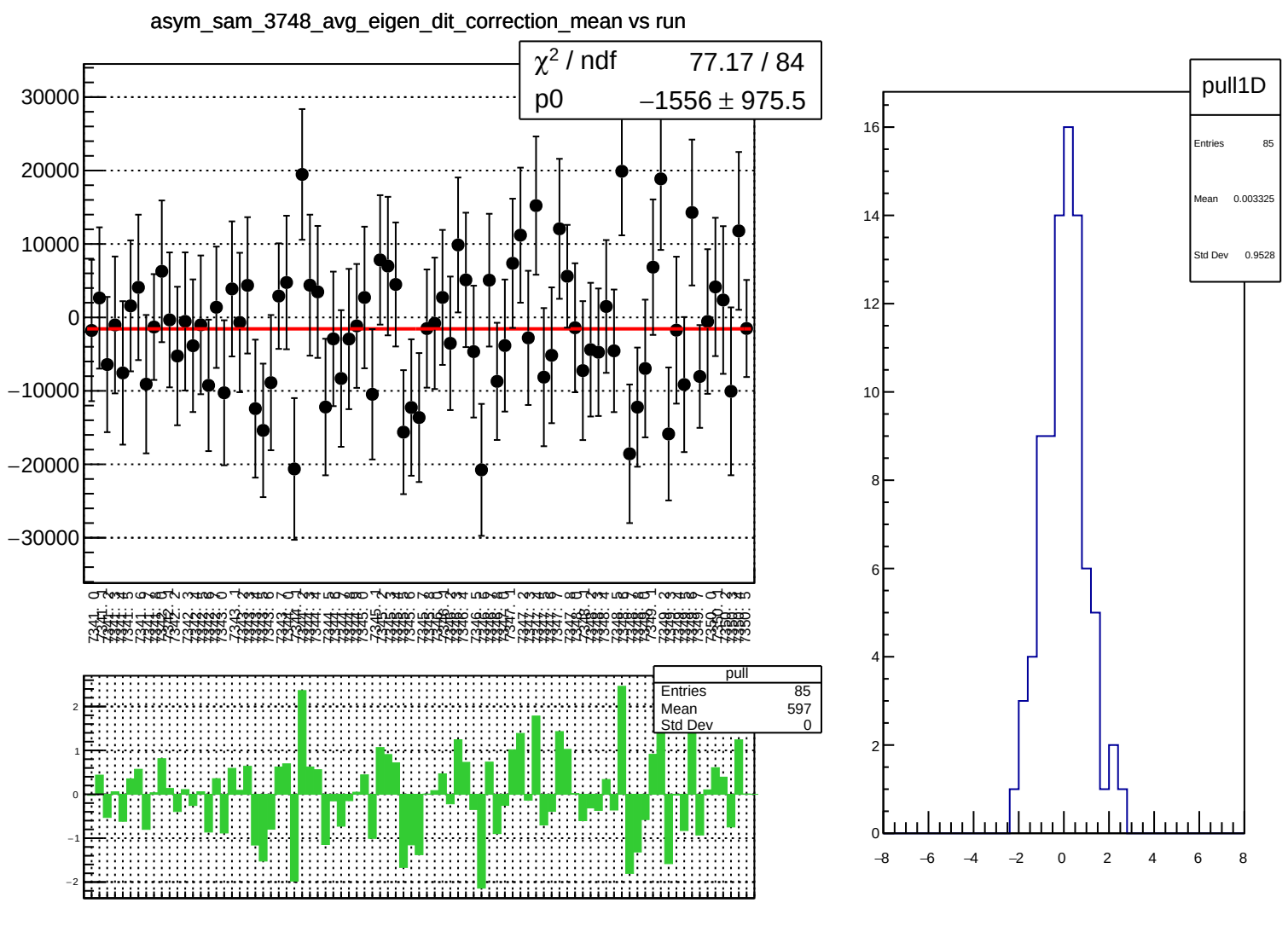

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 5.07e+04 / 84
p0 199.2 ± 0.1592
450
400
350
300
250
200
150

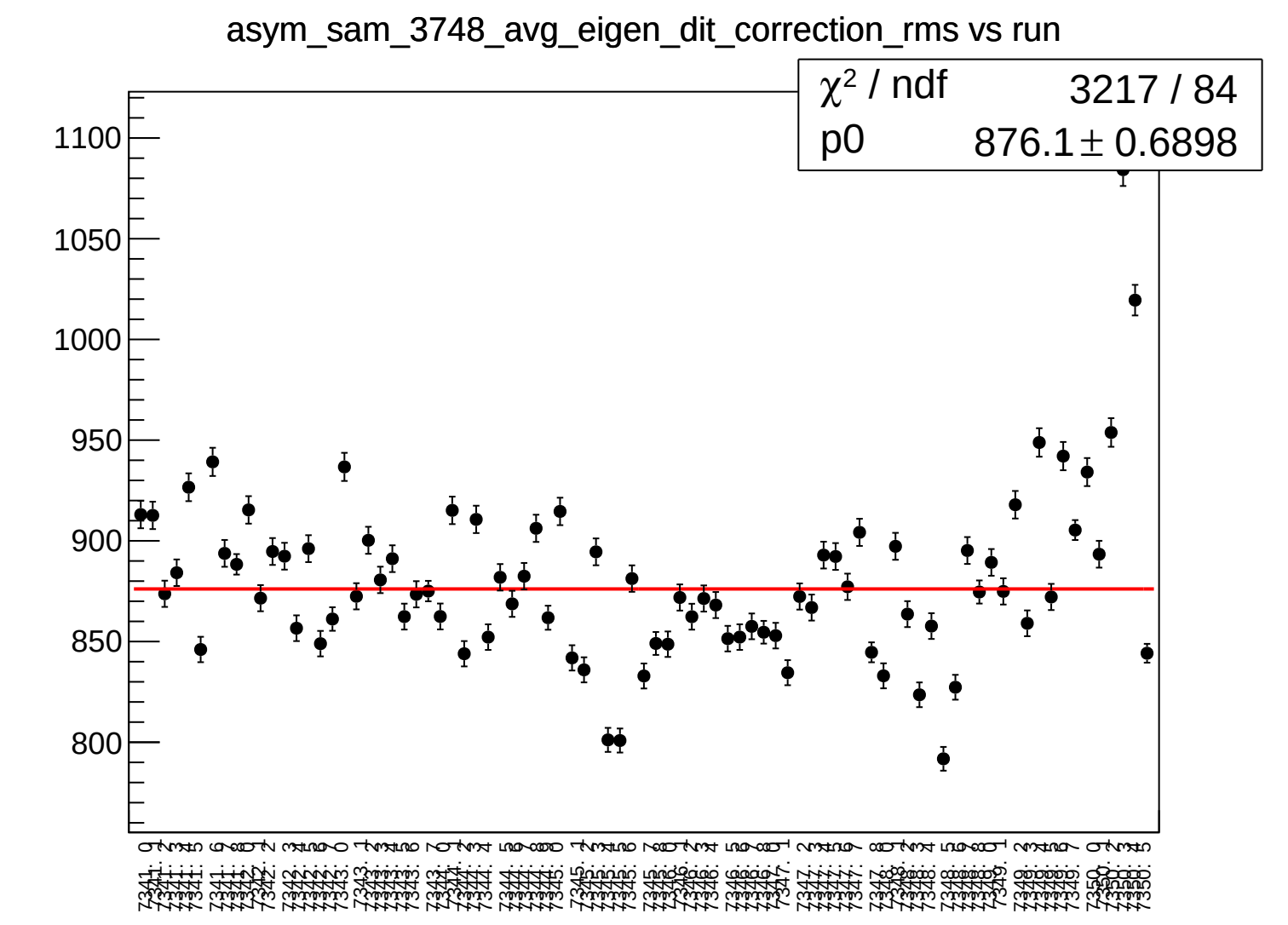

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 77.17 / 84
p0 −1556 ± 975.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 597
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.003325
Std Dev 0.9528
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

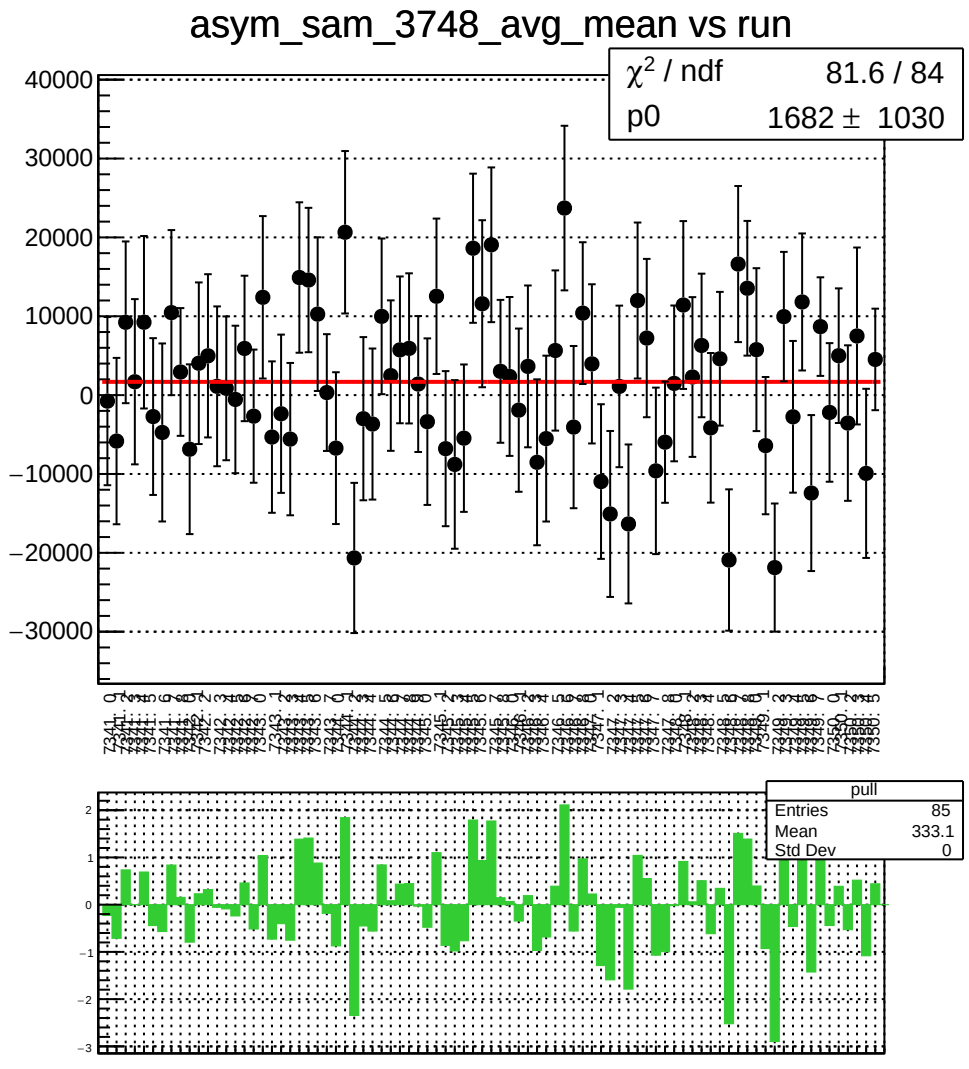

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 3217 / 84
p0 876.1 ± 0.6898
1100
1050
1000
950
900
850
800

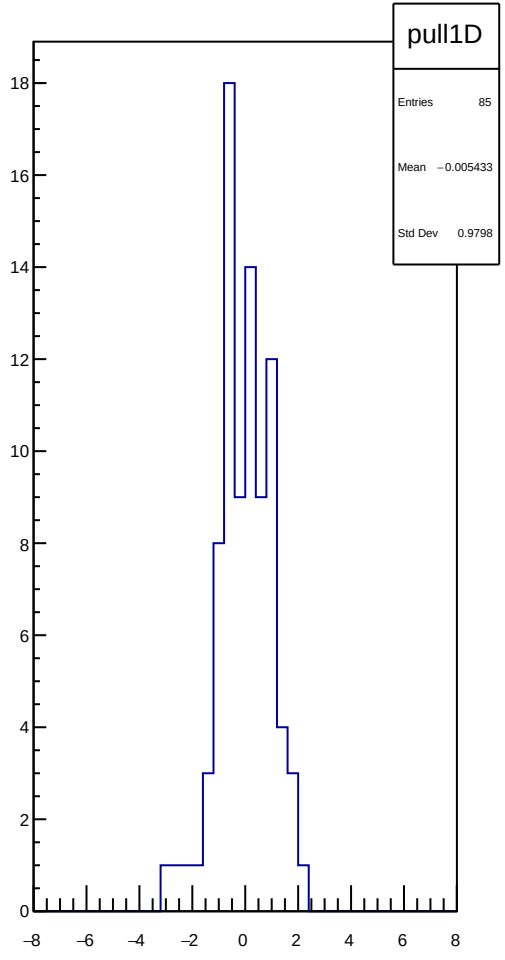

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 89.23 / 84
p0 207.5 ± 225.2
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −23.29
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.02301
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

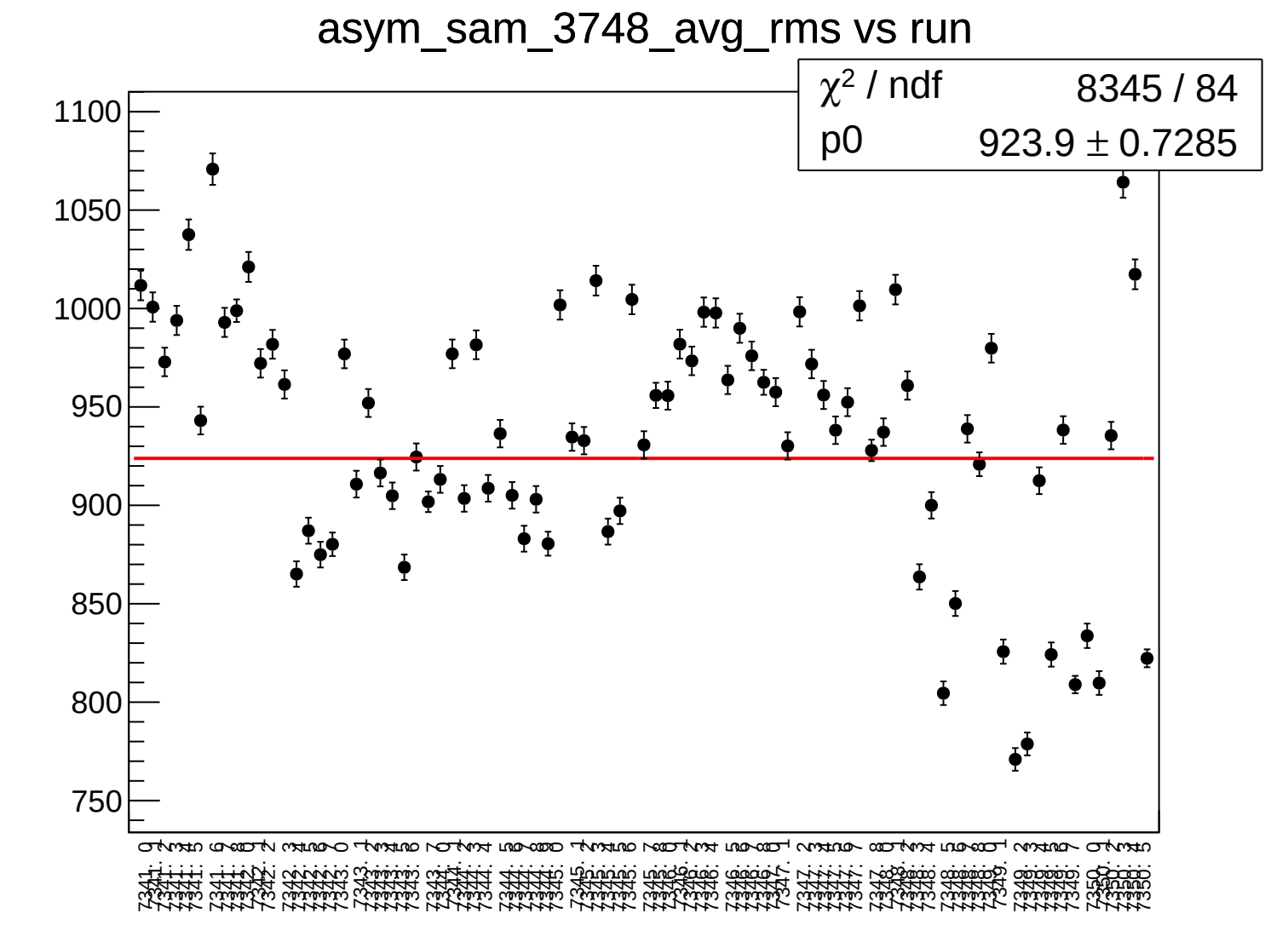

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 5.07e+04 / 84
p0 199.2 ± 0.1592
450
400
350
300
250
200
150

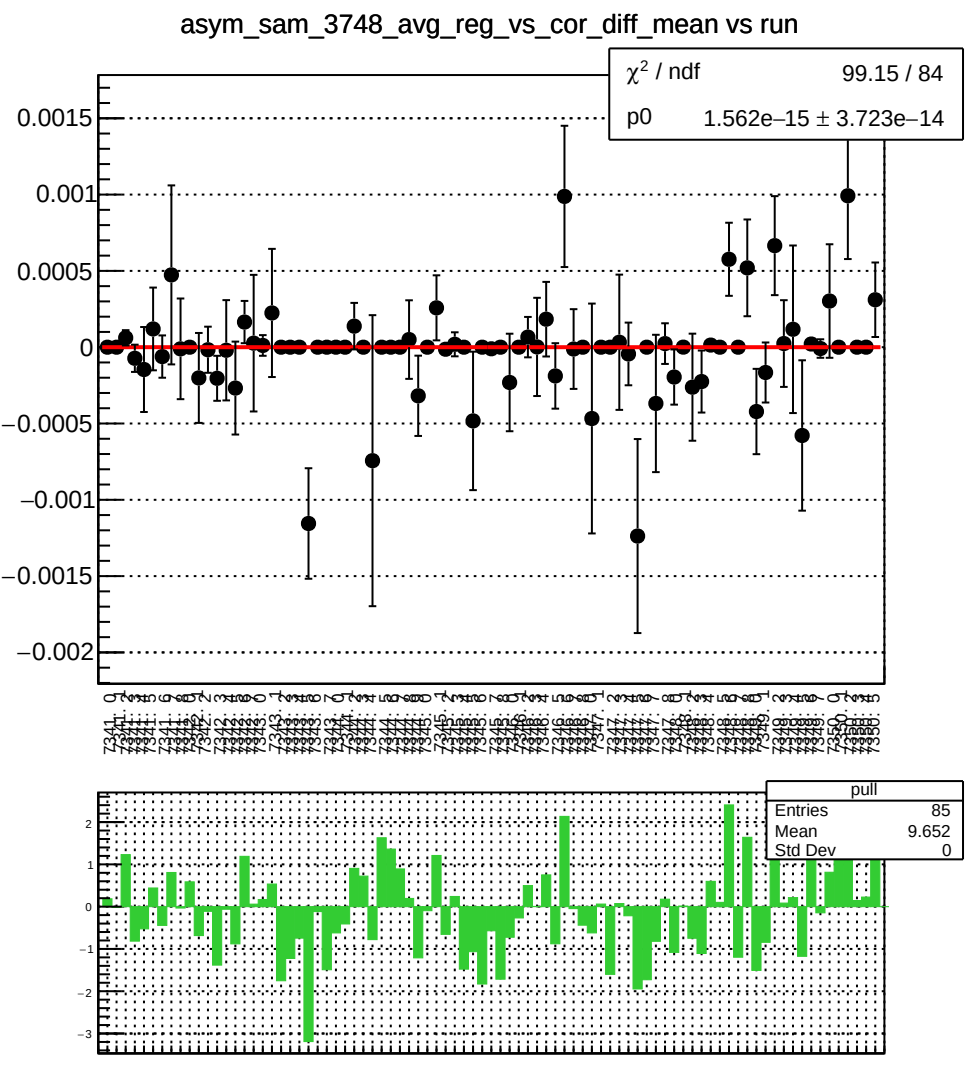

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.17 / 84
p0 −1556 ± 975.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 597
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.003325
Std Dev 0.9528
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

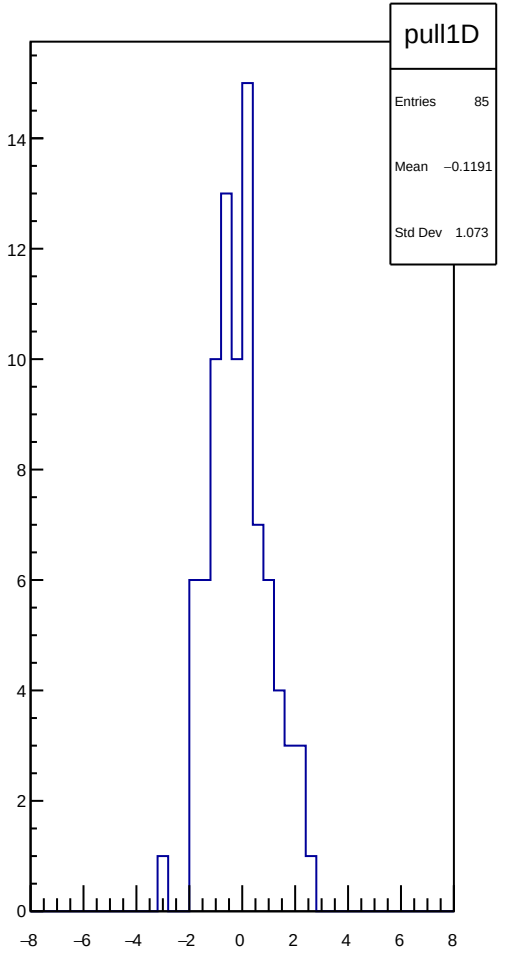

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 3217 / 84
p0 876.1 ± 0.6898
1100
1050
1000
950
900
850
800

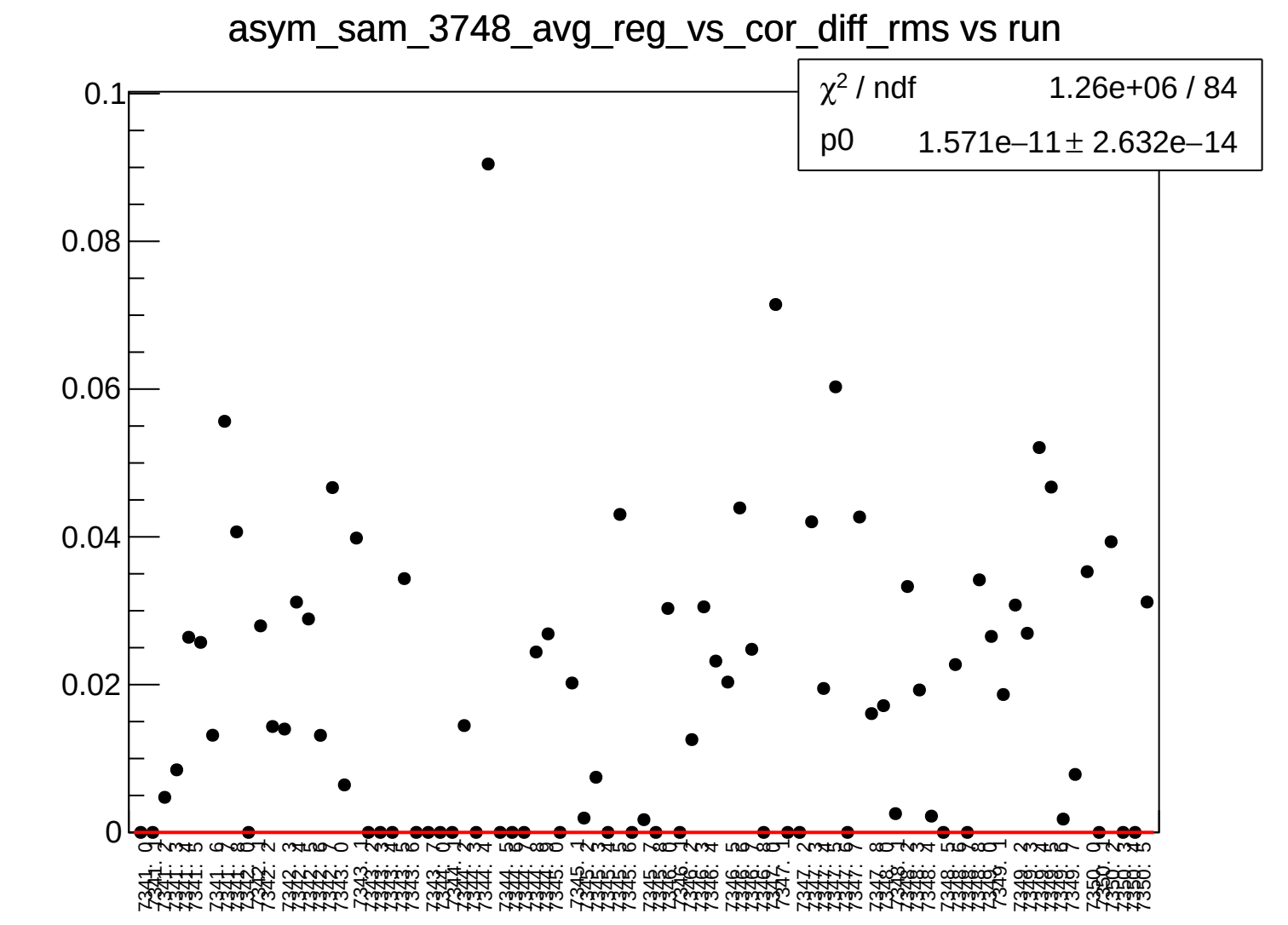

asym_sam_3748_avg_mean vs run
χ² / ndf 81.6 / 84
p0 1682 ± 1030
pull
Entries 85
Mean 333.1
Std Dev 0

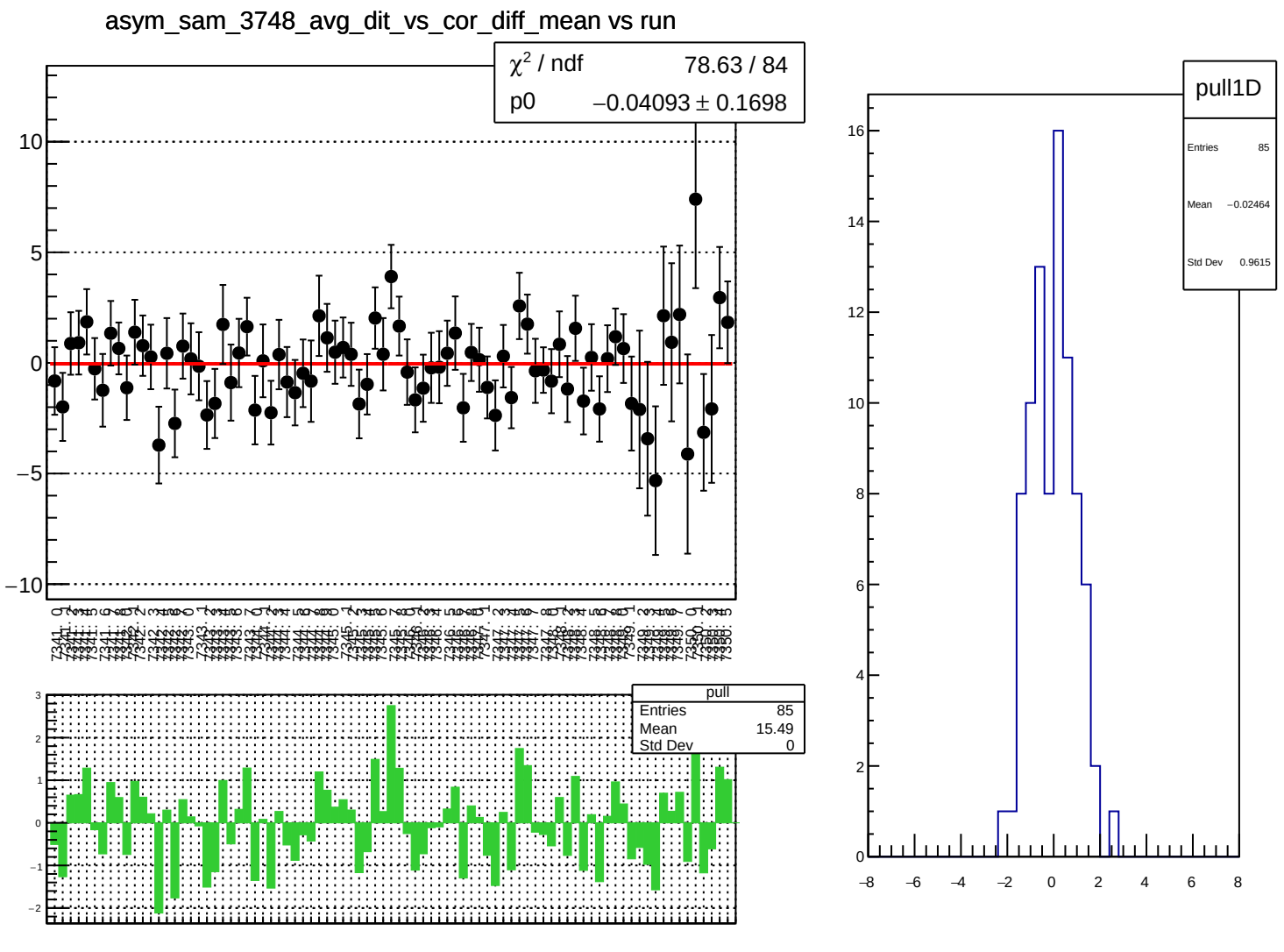

pull1D
Entries 85
Mean −0.005433
Std Dev 0.9798

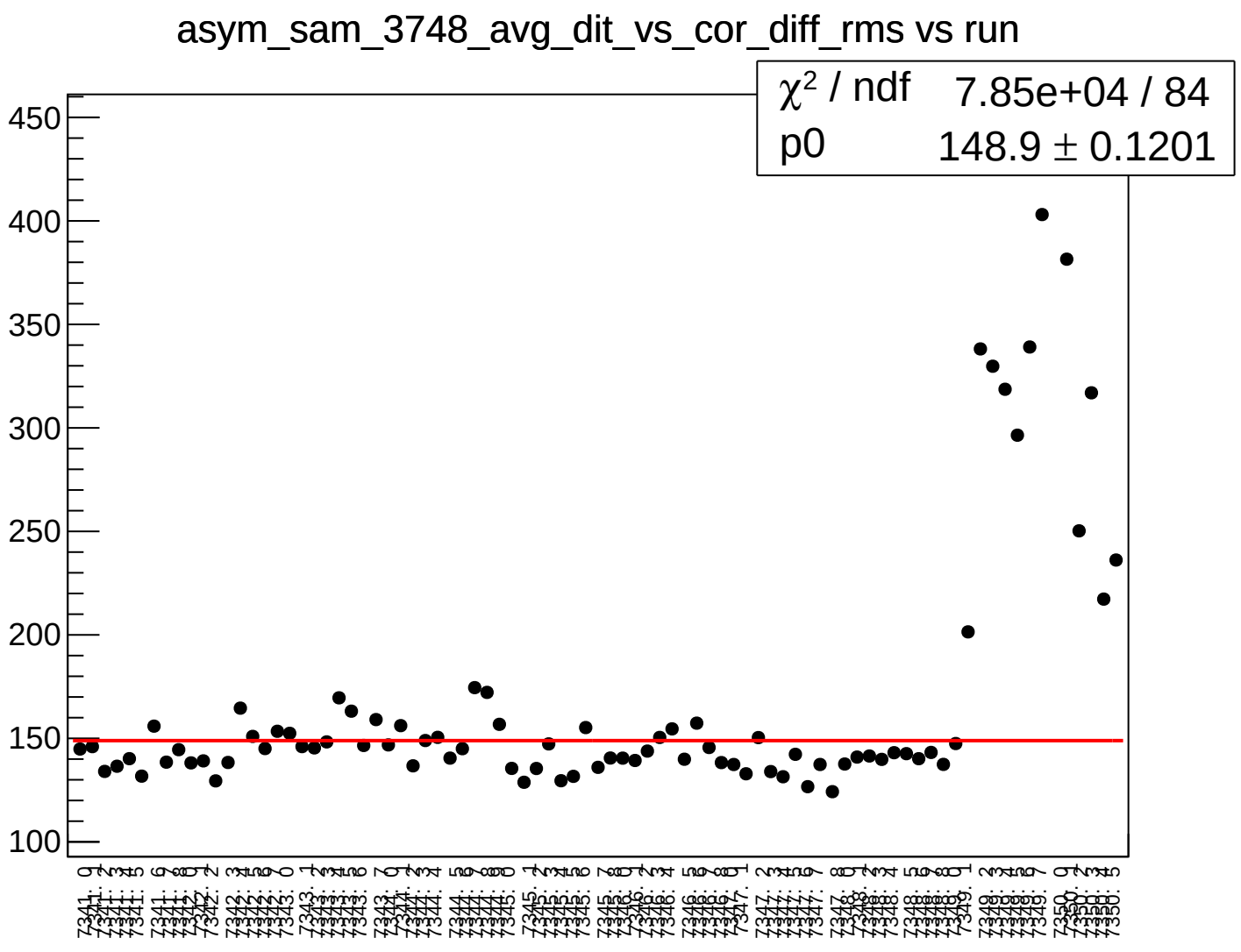

asym_sam_3748_avg_rms vs run
χ² / ndf 8345 / 84
p0 923.9 ± 0.7285
1100
1050
1000
950
900
850
800
750

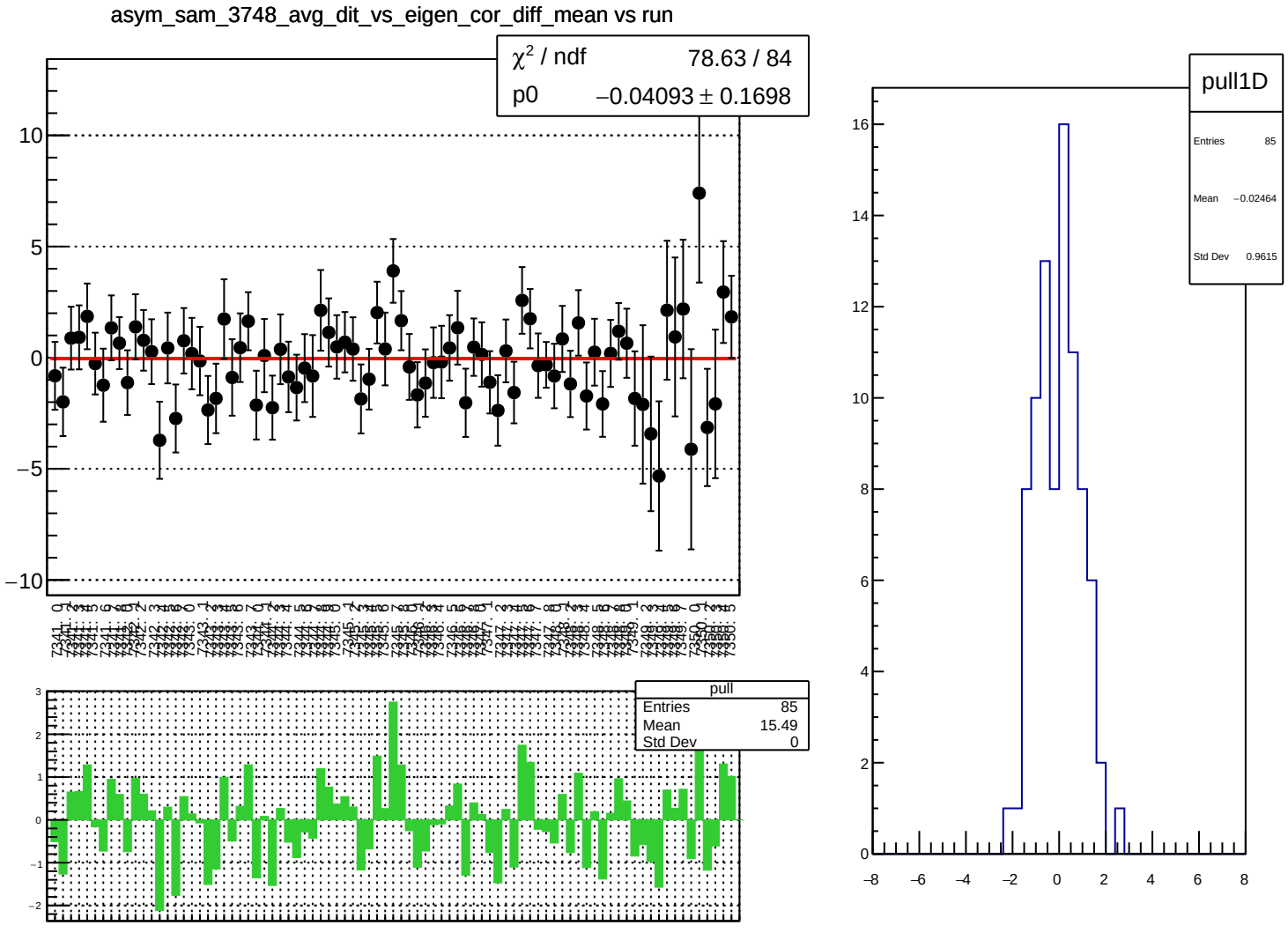

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.15 / 84
p0 1.562e−15 ± 3.723e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 85
Mean 9.652
Std Dev 0
2
1
0
−1
−2
−3

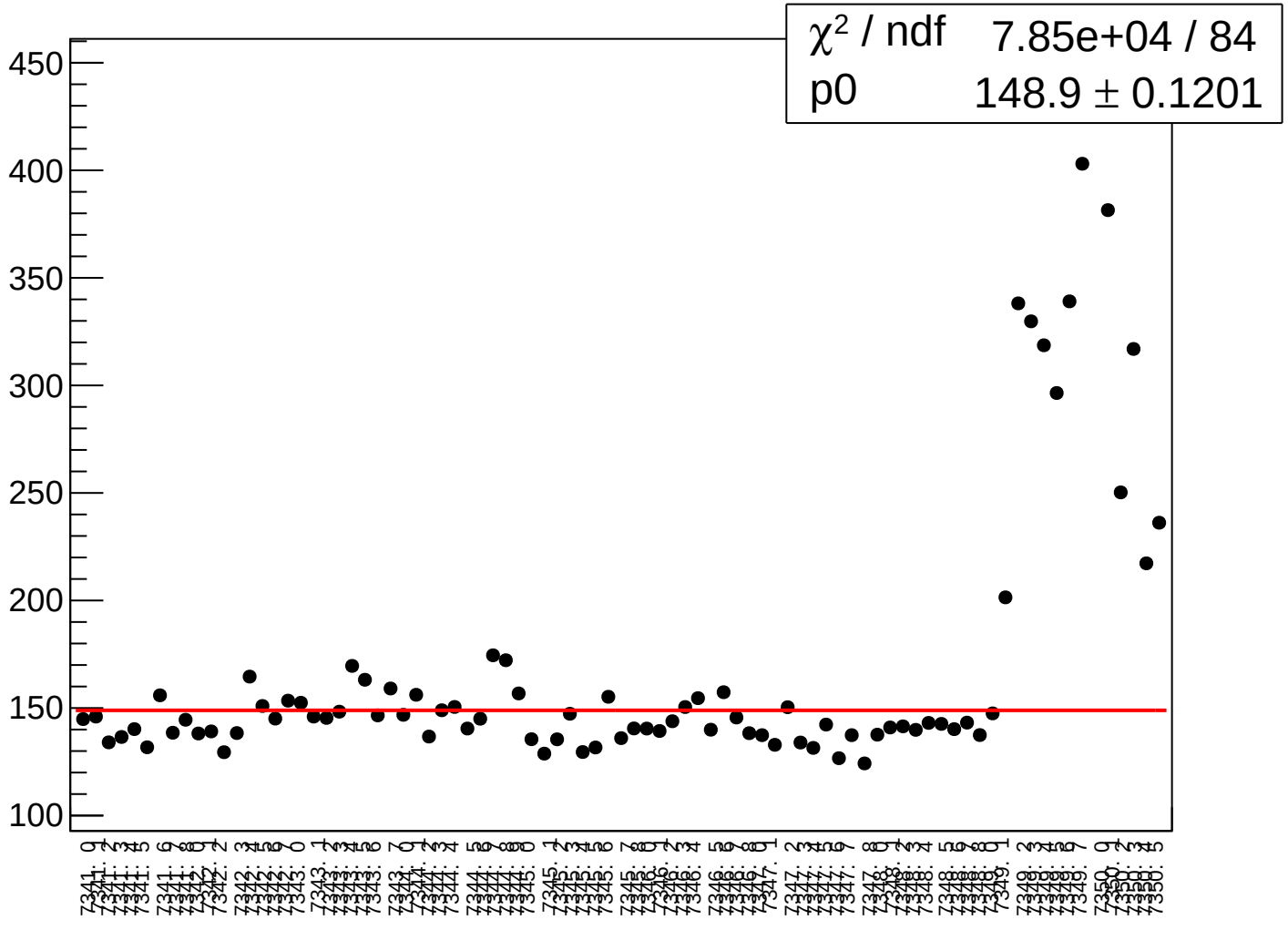

pull1D
Entries 85
Mean −0.1191
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

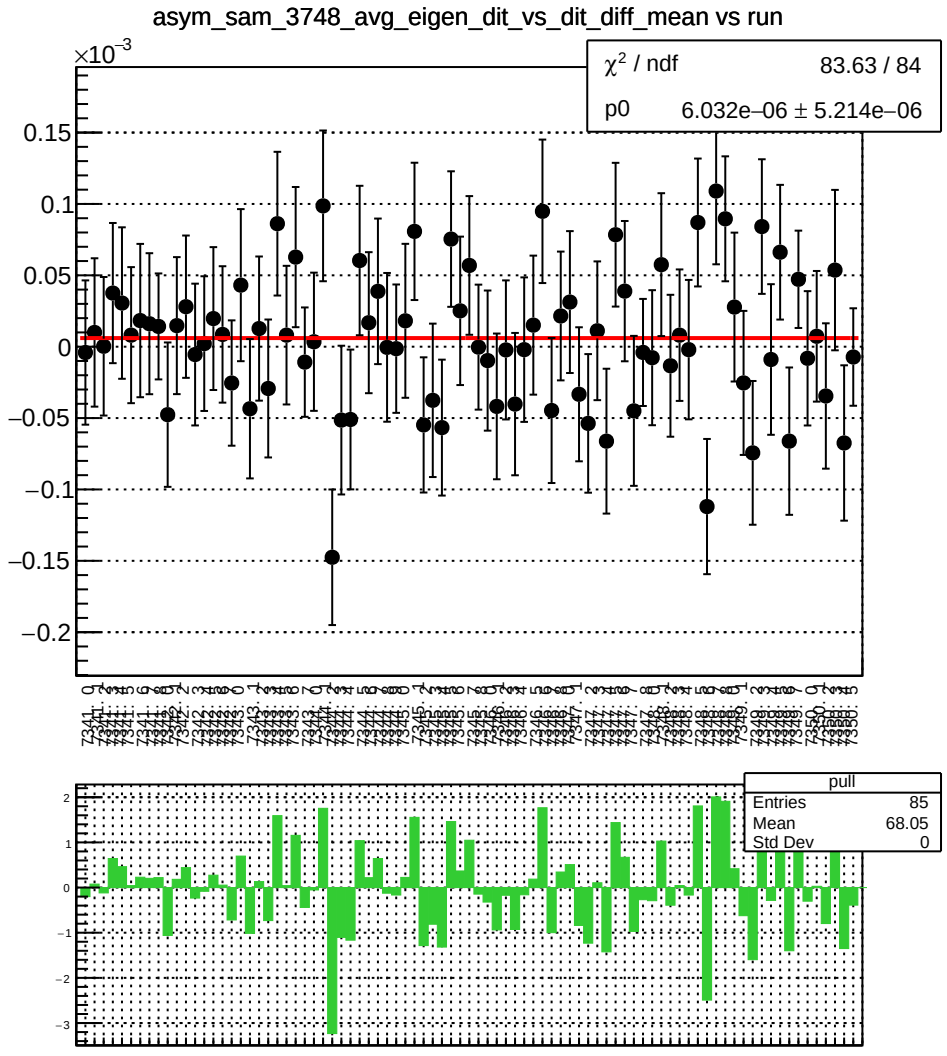

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.26e+06 / 84
p0 1.571e−11 ± 2.632e−14
0.1
0.08
0.06
0.04
0.02
0

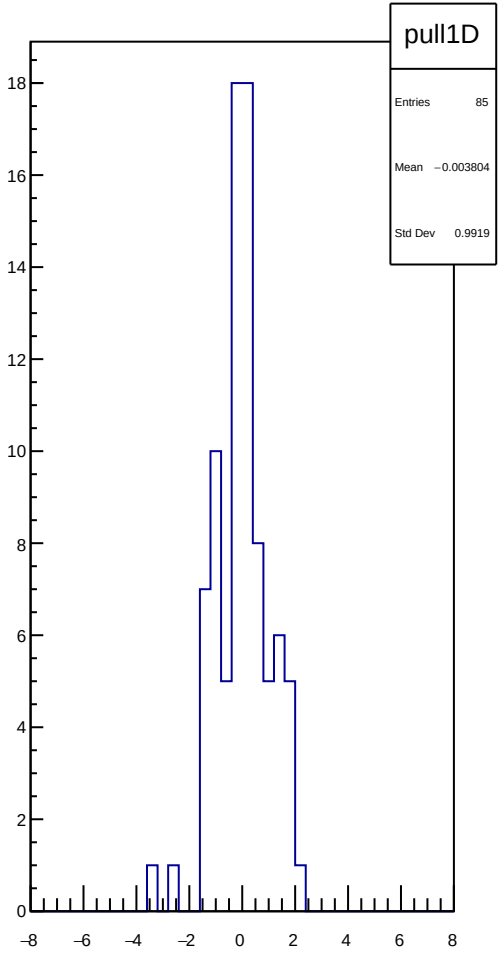

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.63 / 84
p0 −0.04093 ± 0.1698
pull
Entries 85
Mean 15.49
Std Dev 0
pull1D
Entries 85
Mean −0.02464
Std Dev 0.9615

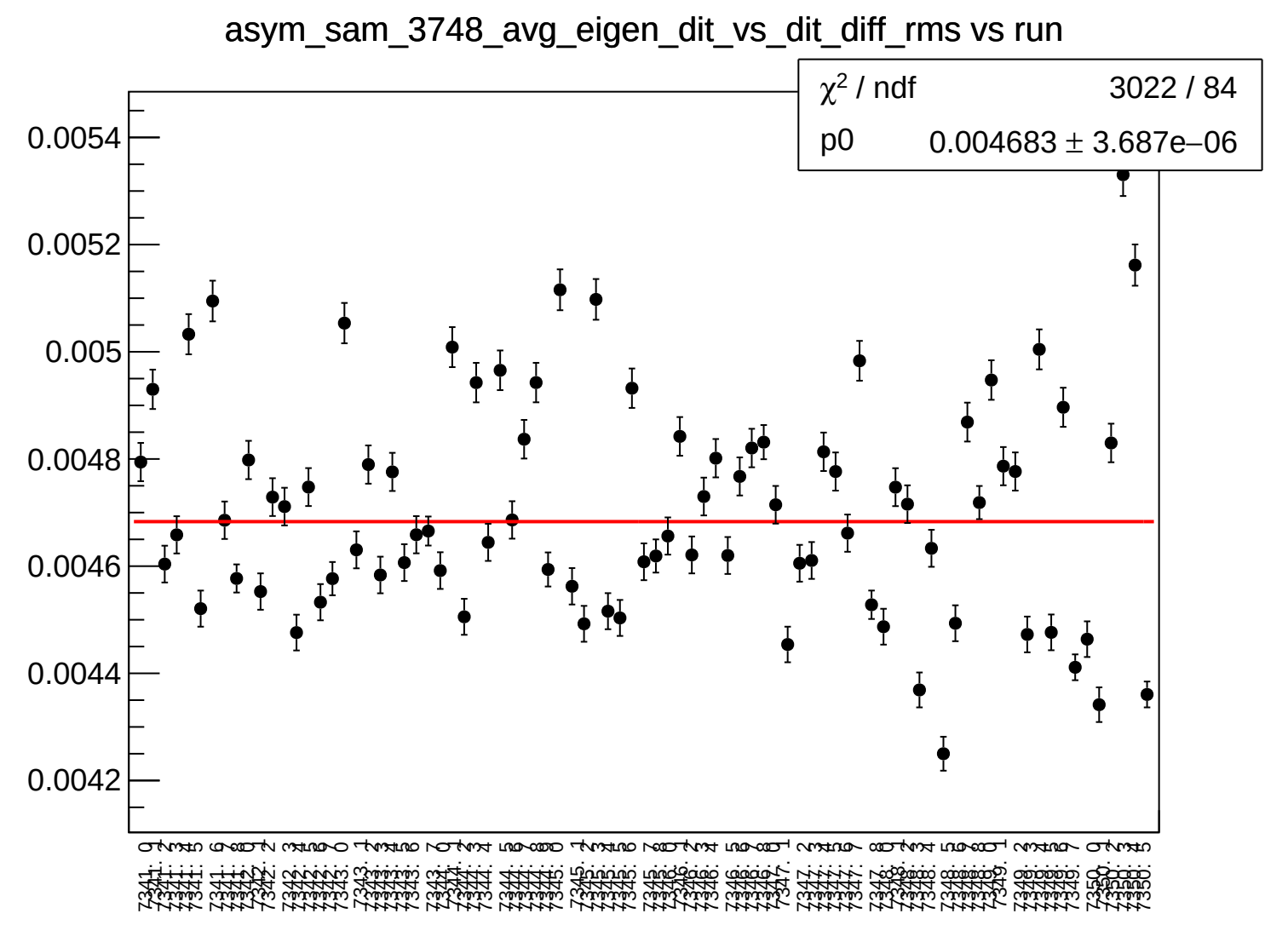

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.85e+04 / 84
p0 148.9 ± 0.1201
450
400
350
300
250
200
150
100

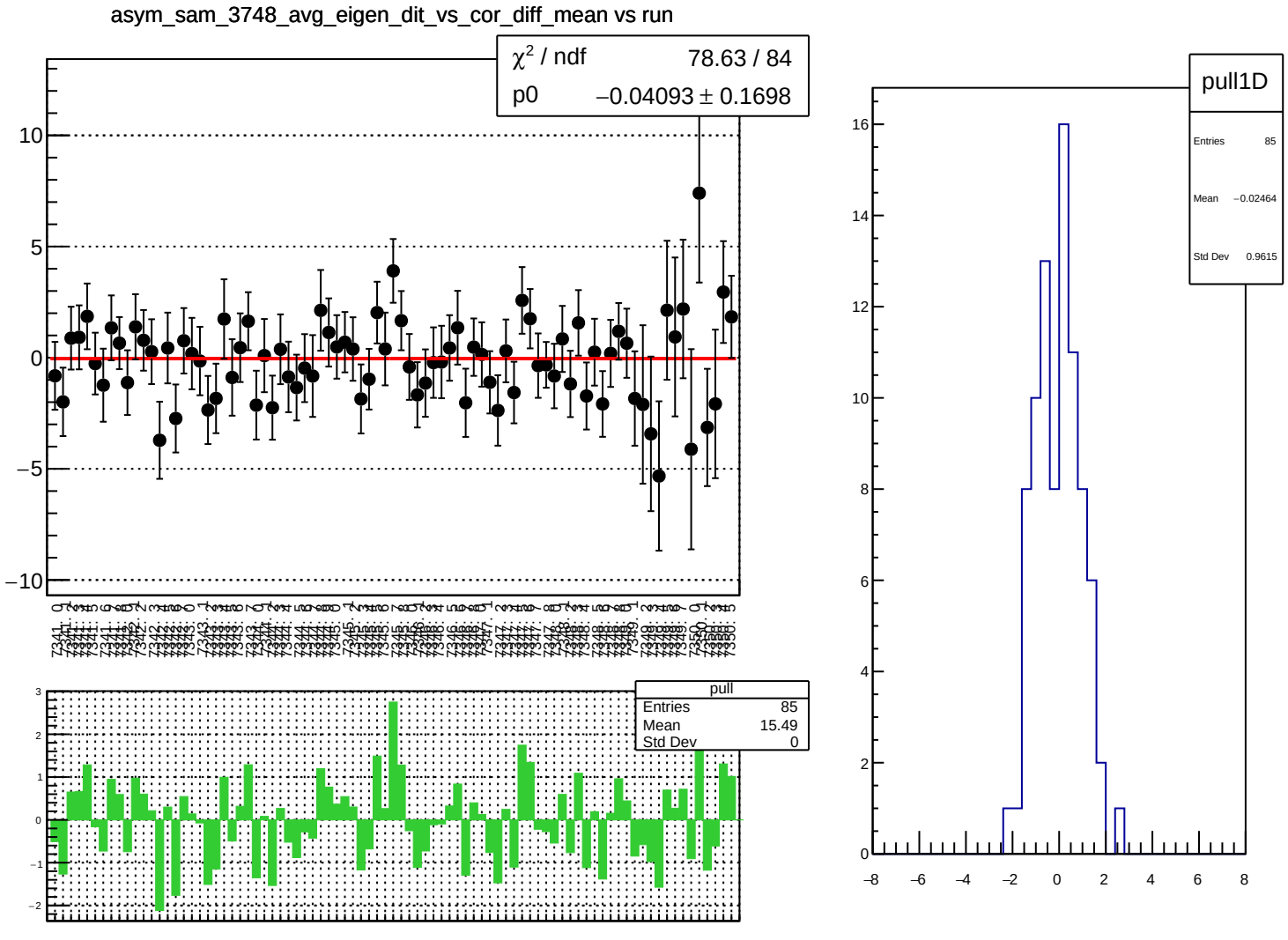

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.63 / 84
p0 −0.04093 ± 0.1698
pull
Entries 85
Mean 15.49
Std Dev 0
pull1D
Entries 85
Mean −0.02464
Std Dev 0.9615

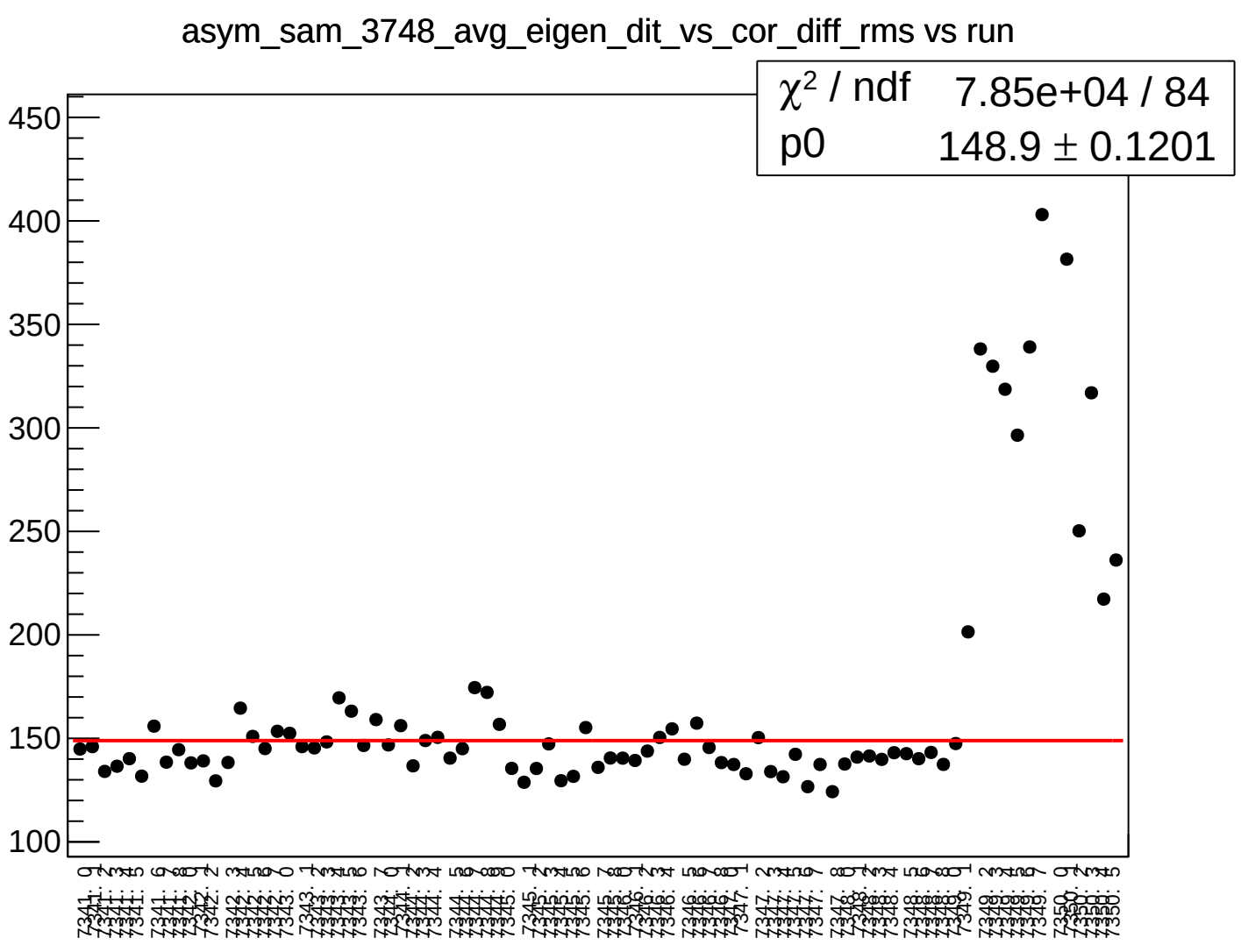

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.85e+04 / 84
p0 148.9 ± 0.1201
450
400
350
300
250
200
150
100

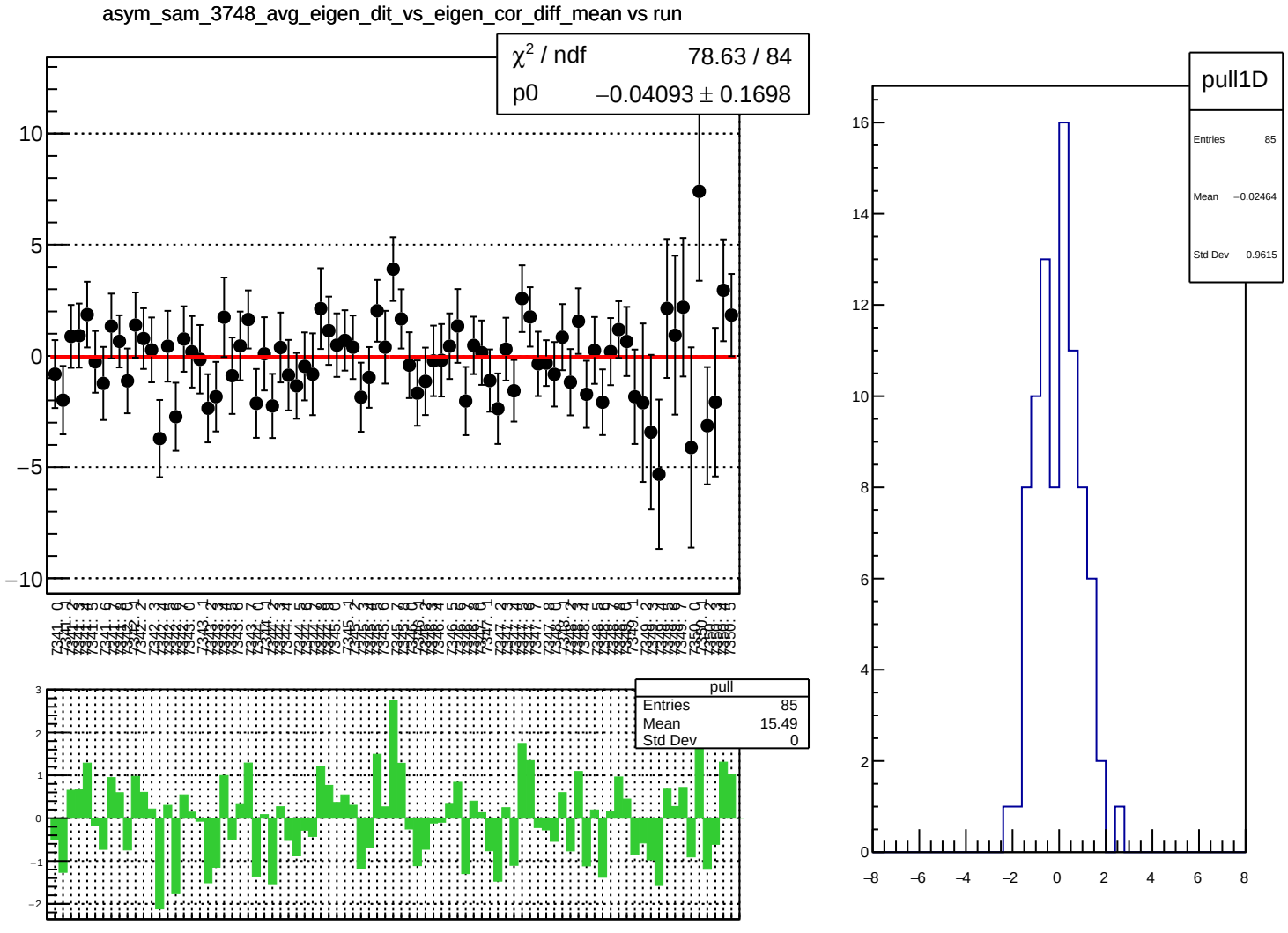

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.63 / 84
p0 6.032e−06 ± 5.214e−06
pull
Entries 85
Mean 68.05
Std Dev 0

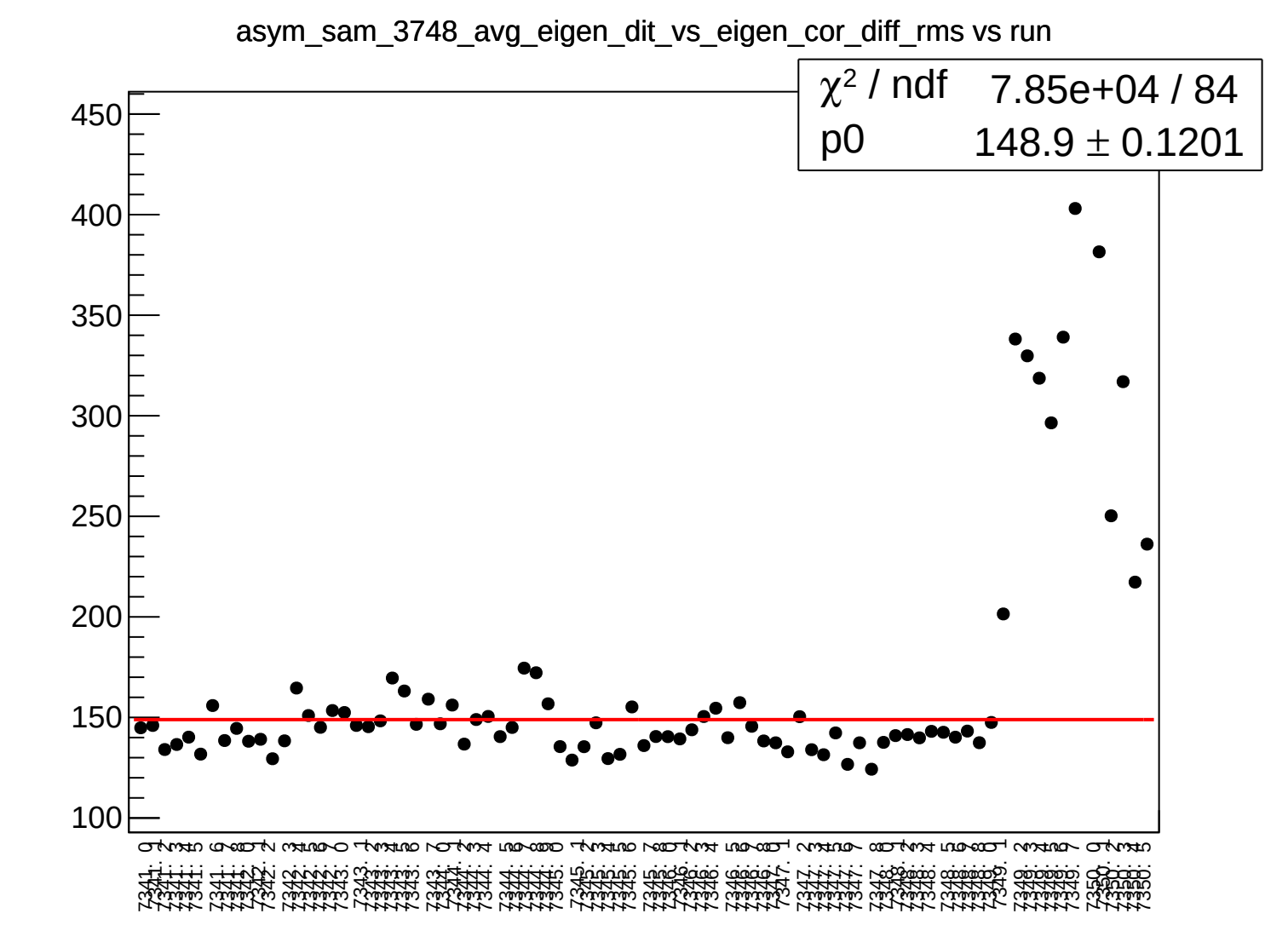

pull1D
Entries 85
Mean −0.003804
Std Dev 0.9919

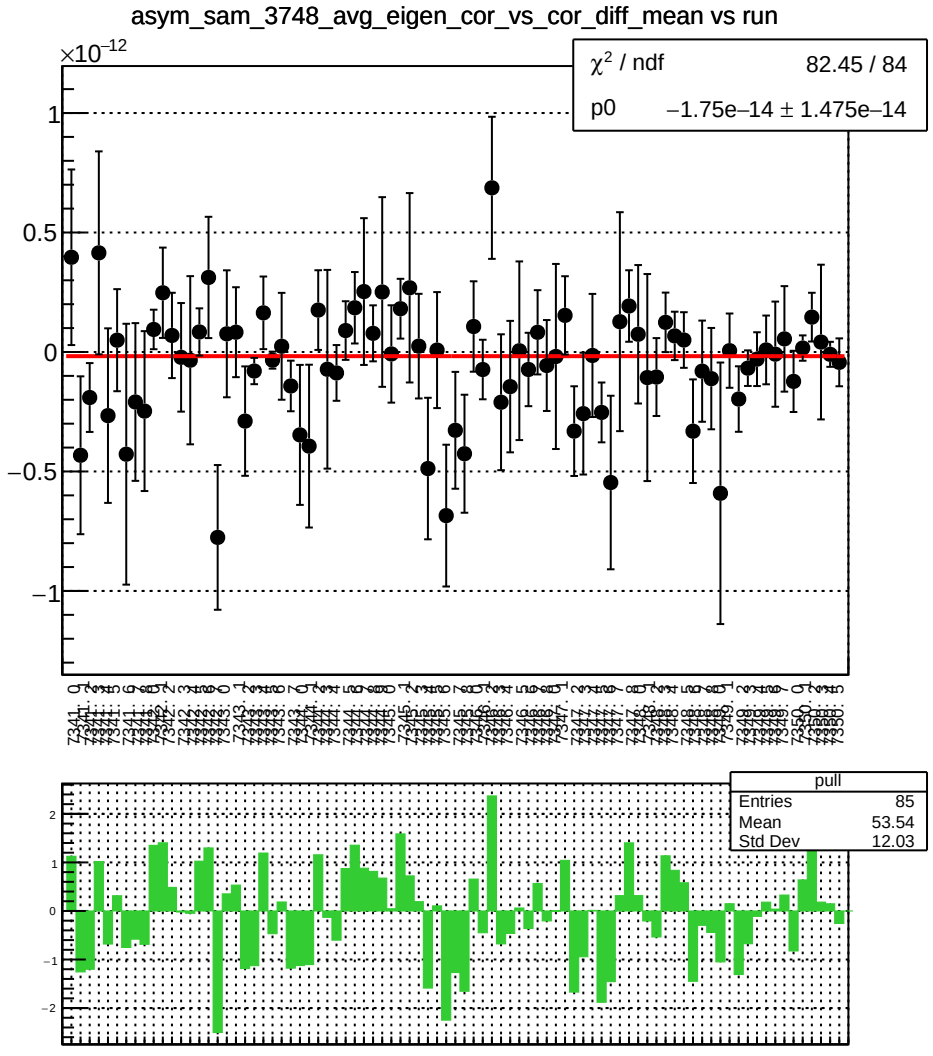

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3022 / 84
p0 0.004683 ± 3.687e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

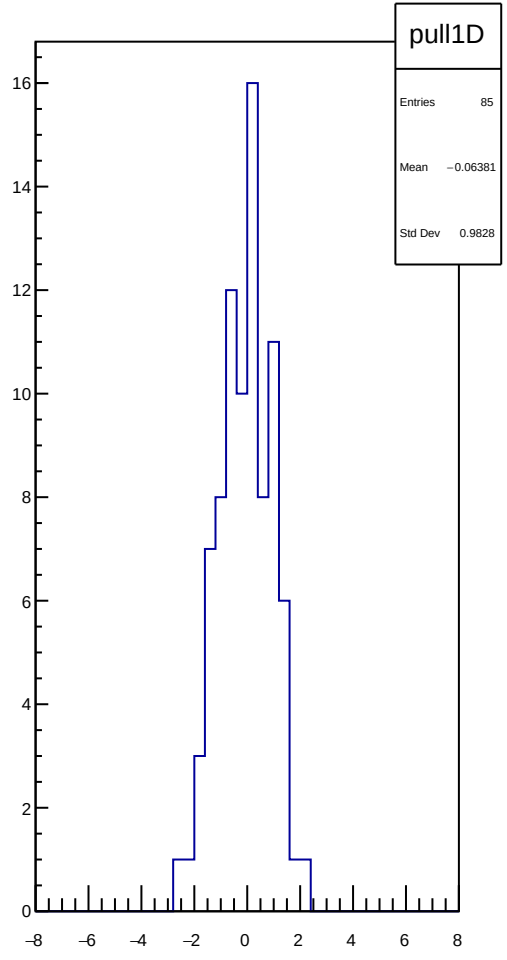

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.63 / 84
p0 −0.04093 ± 0.1698
pull
Entries 85
Mean 15.49
Std Dev 0
pull1D
Entries 85
Mean −0.02464
Std Dev 0.9615

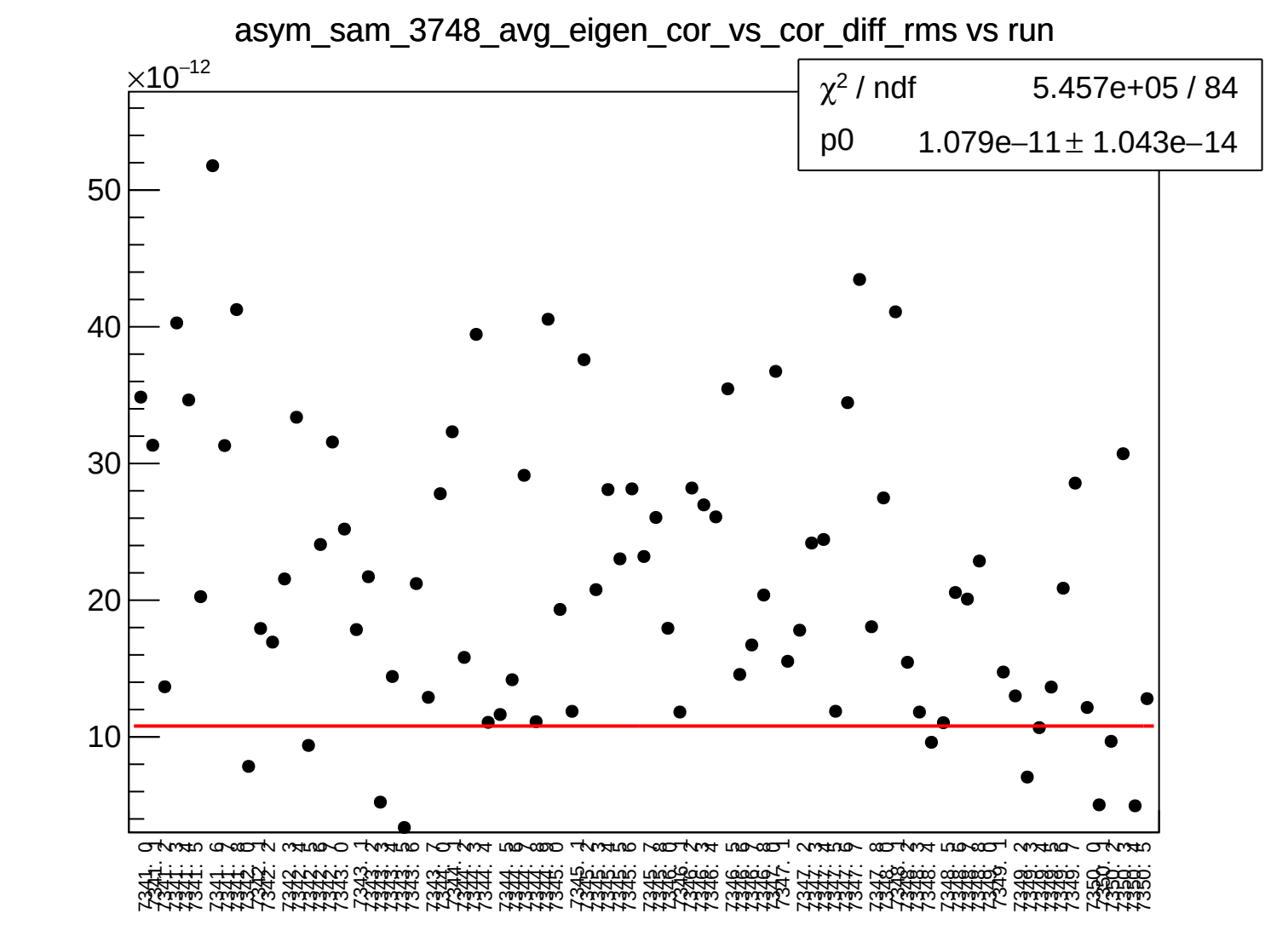

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.85e+04 / 84
p0 148.9 ± 0.1201
450
400
350
300
250
200
150
100

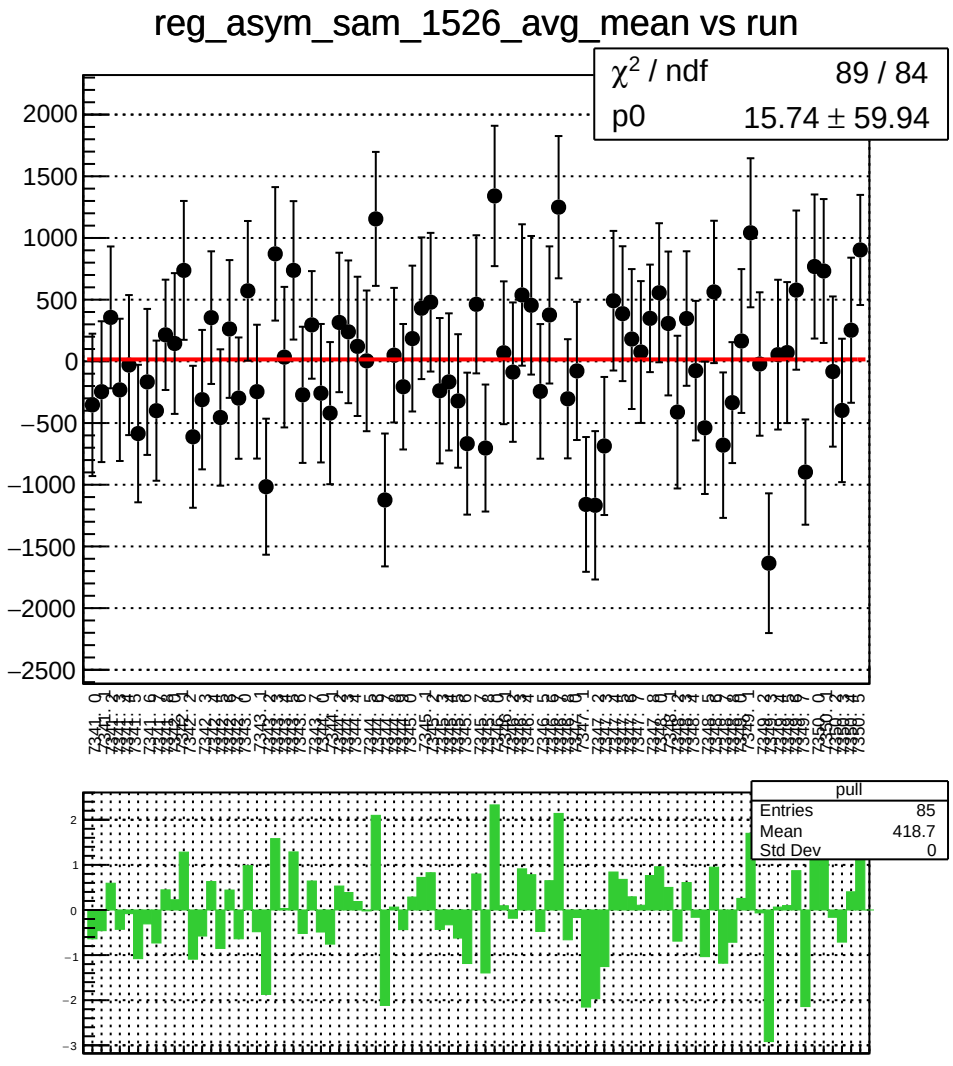

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.63 / 84
p0 −0.04093 ± 0.1698
pull
Entries 85
Mean 15.49
Std Dev 0
pull1D
Entries 85
Mean −0.02464
Std Dev 0.9615

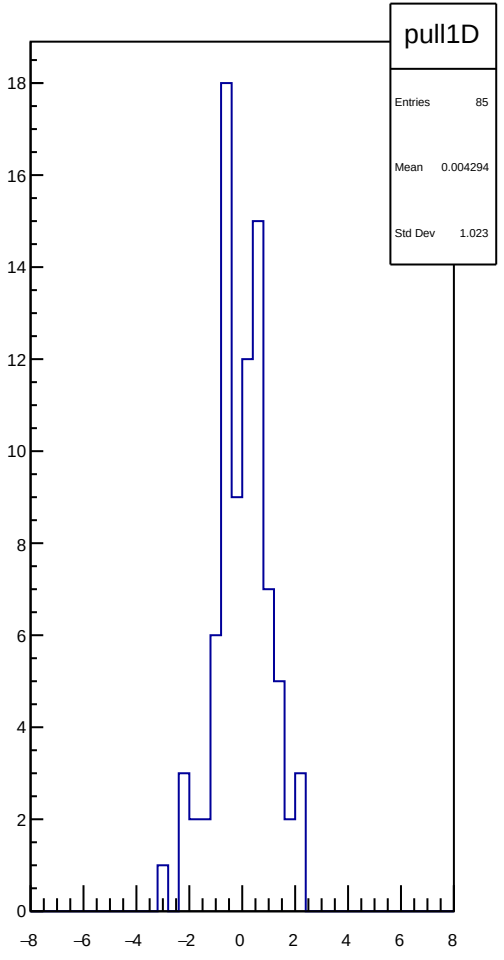

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.85e+04 / 84
p0 148.9 ± 0.1201
450
400
350
300
250
200
150
100

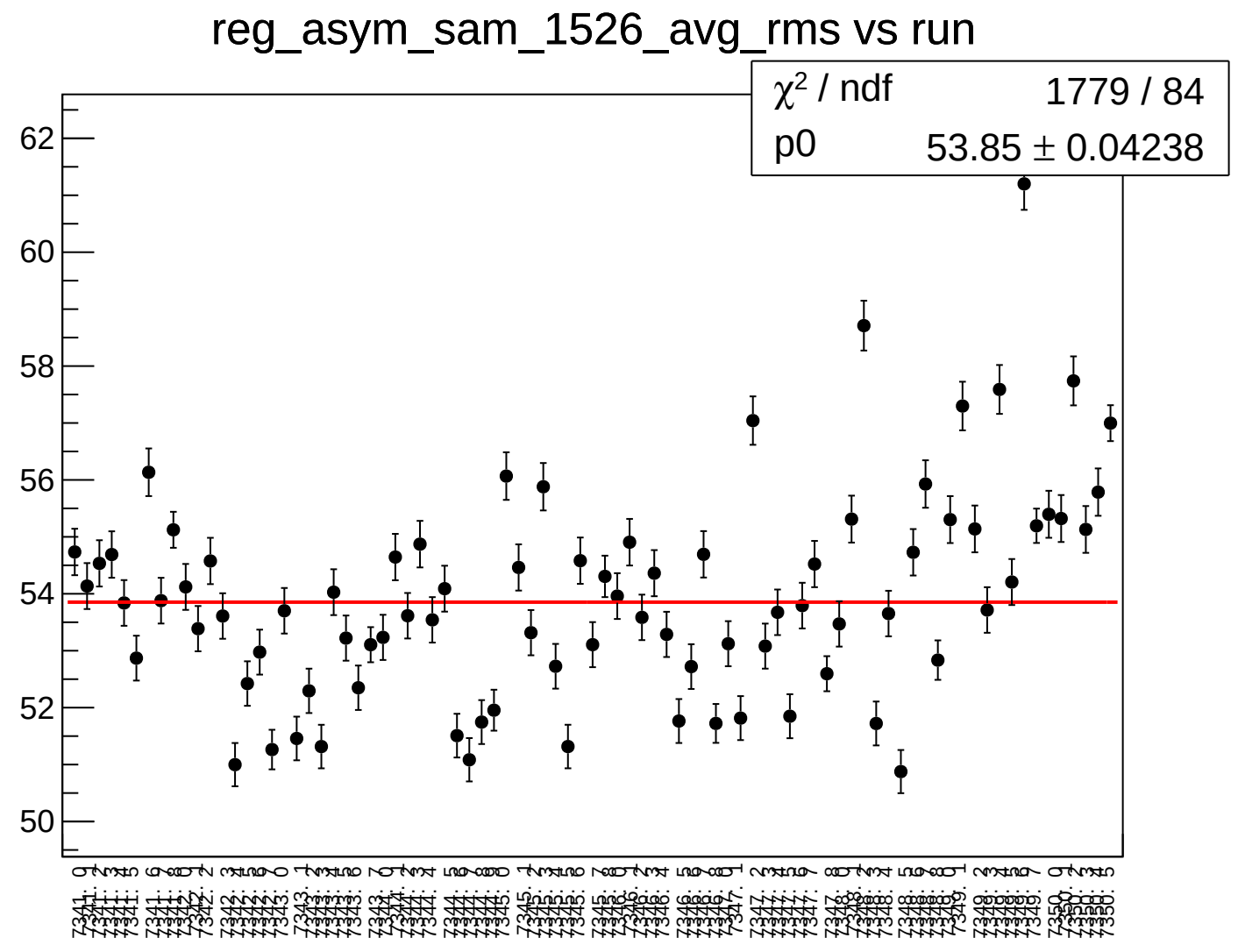

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.45 / 84
p0 −1.75e−14 ± 1.475e−14
pull
Entries 85
Mean 53.54
Std Dev 12.03

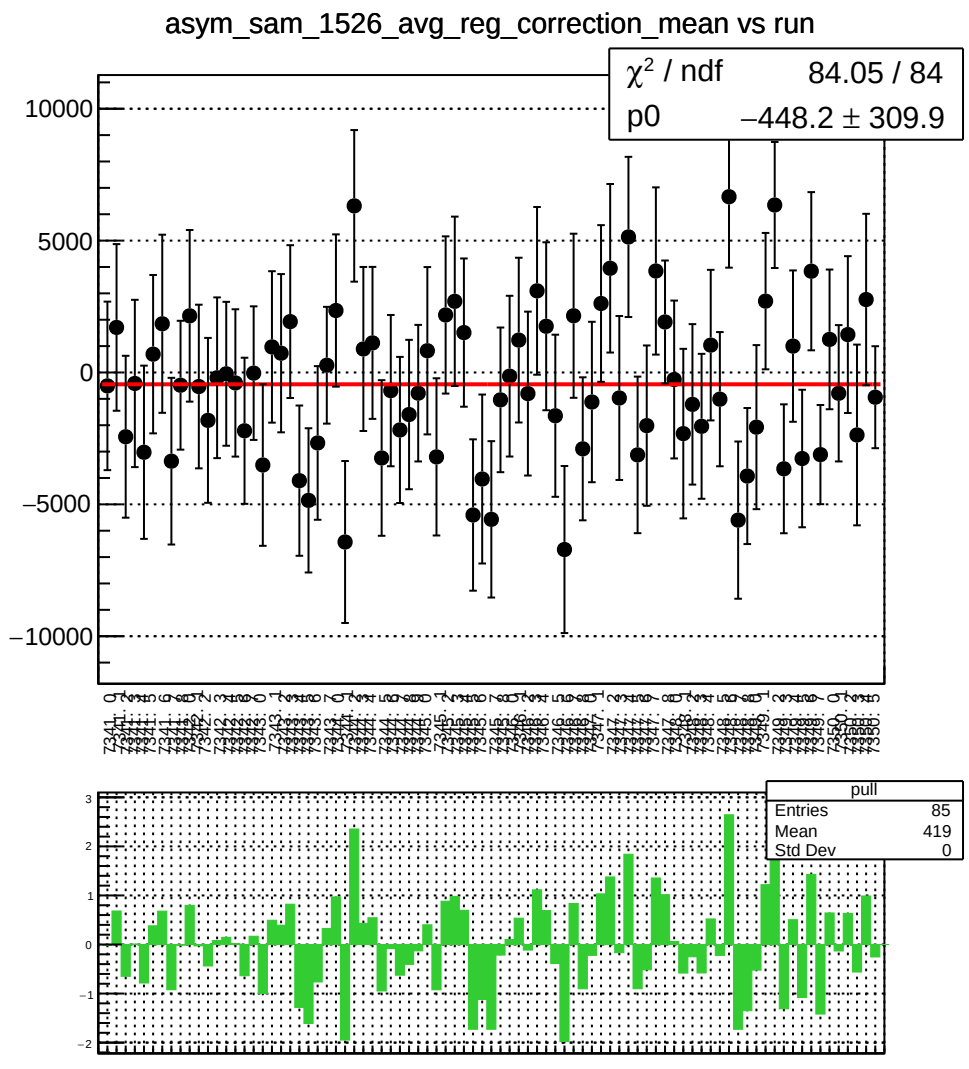

pull1D
Entries 85
Mean −0.06381
Std Dev 0.9828

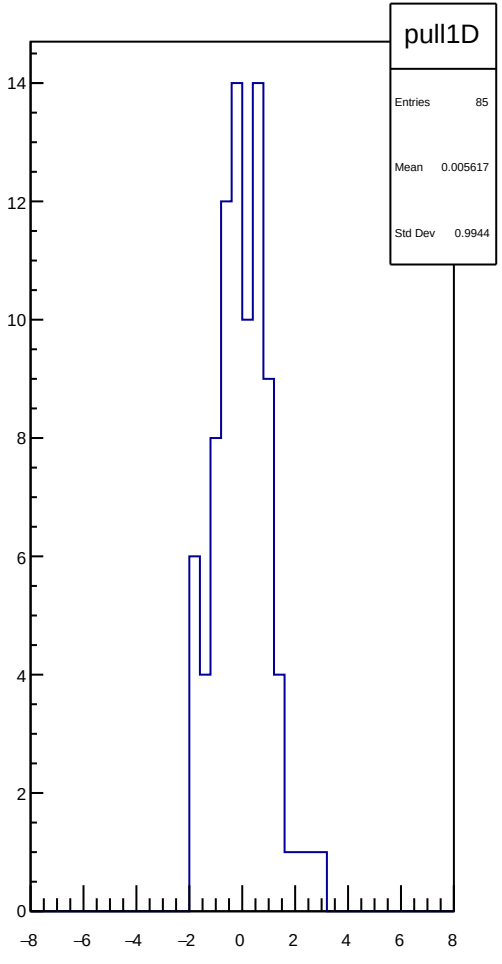

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.457e+05 / 84
p0 1.079e−11 ± 1.043e−14
50
40
30
20
10

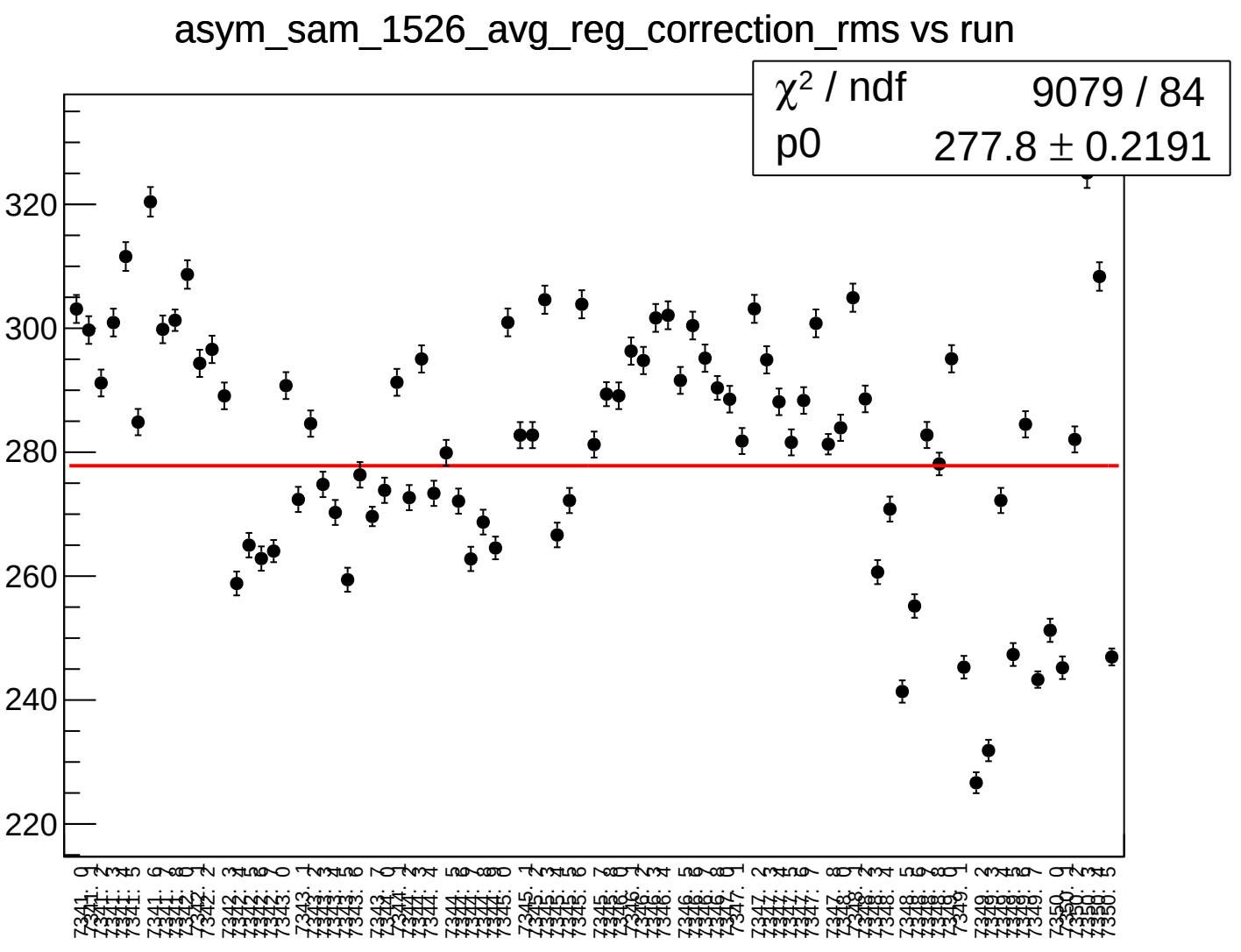

reg_asym_sam_1526_avg_mean vs run
χ^2 / ndf 89 / 84
p0 15.74 ± 59.94
pull
Entries 85
Mean 418.7
Std Dev 0

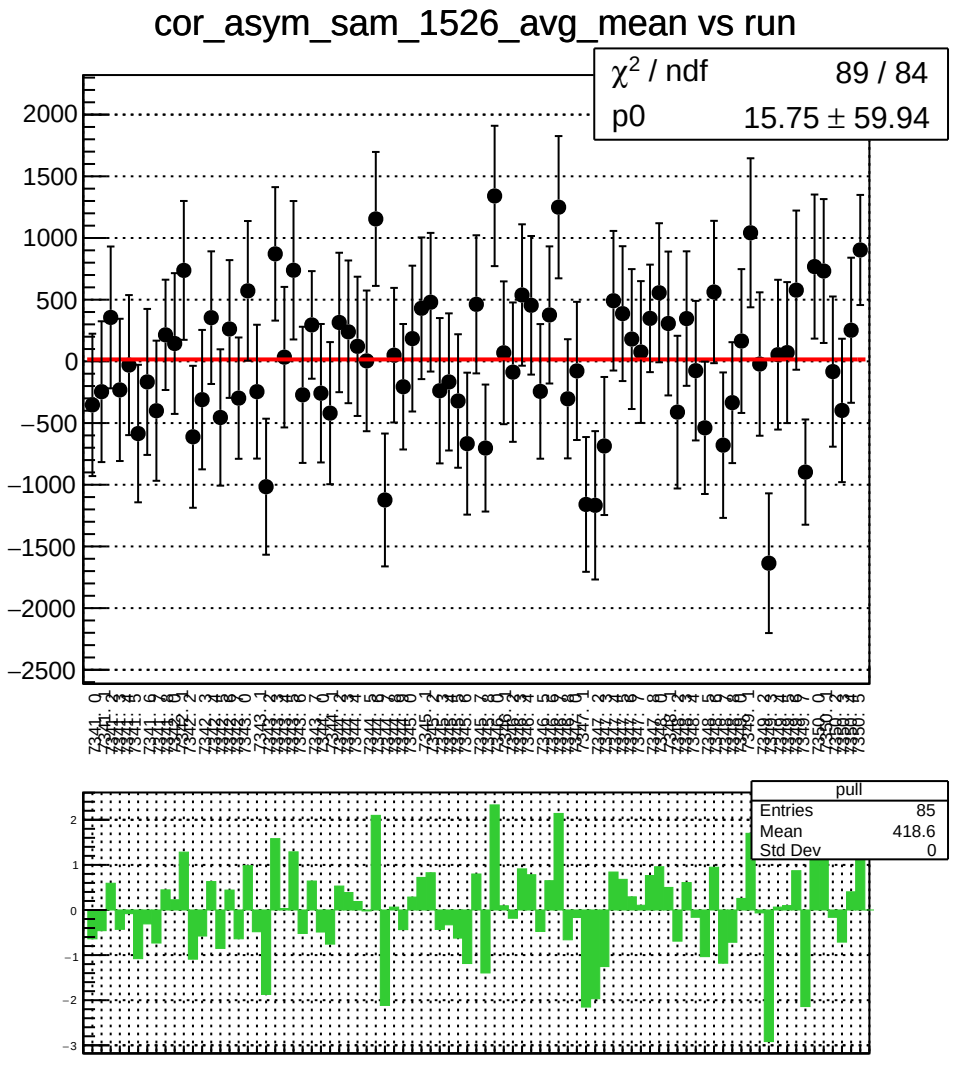

pull1D
Entries 85
Mean 0.004294
Std Dev 1.023

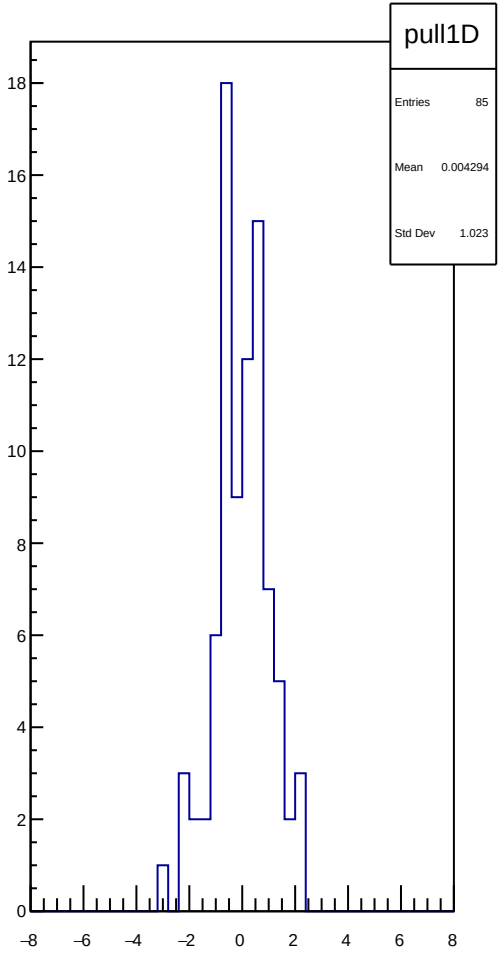

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1779 / 84
p0 53.85 ± 0.04238
62
60
58
56
54
52
50

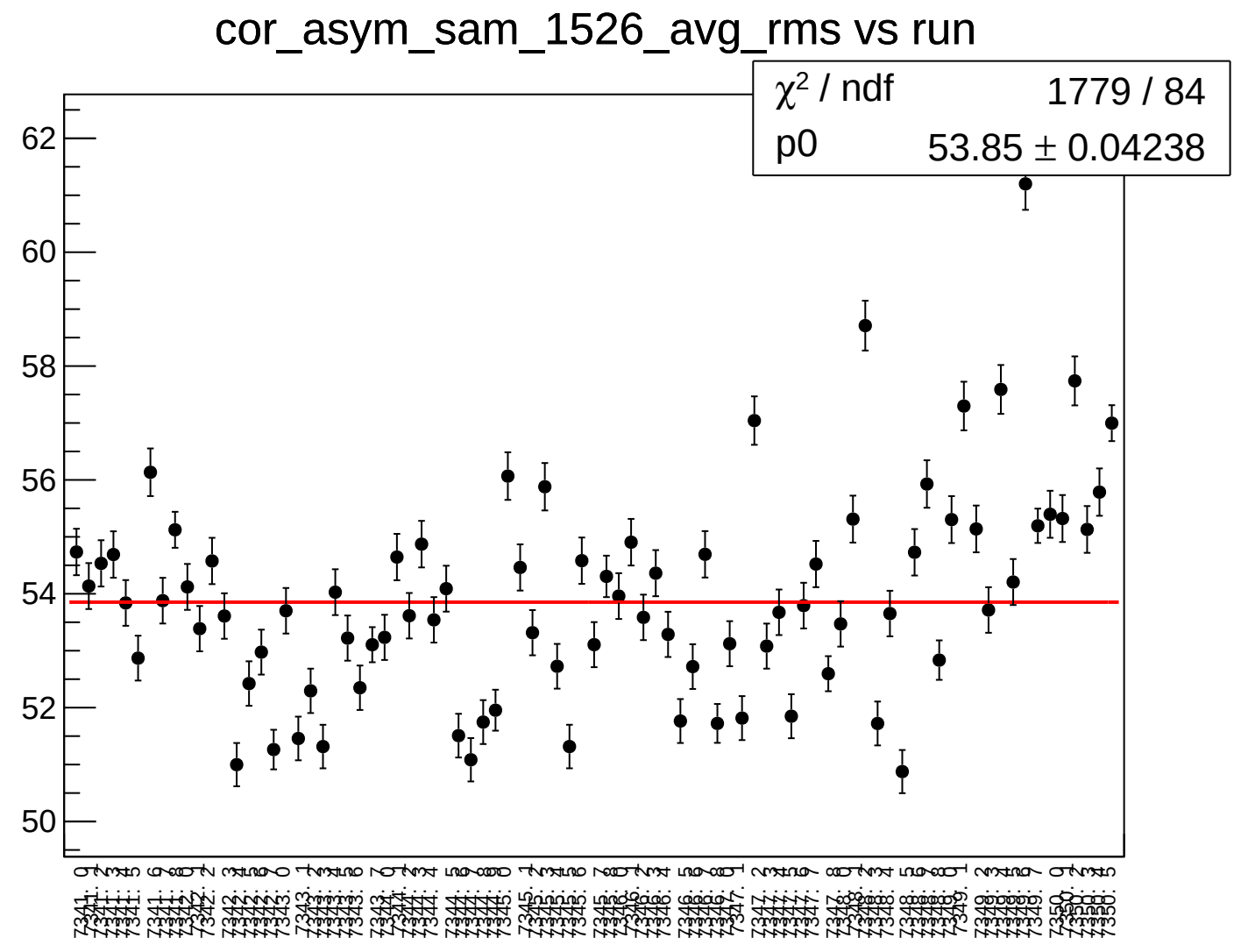

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 84.05 / 84
p0 −448.2 ± 309.9
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 419
Std Dev 0
3
2
1
0
−1
−2

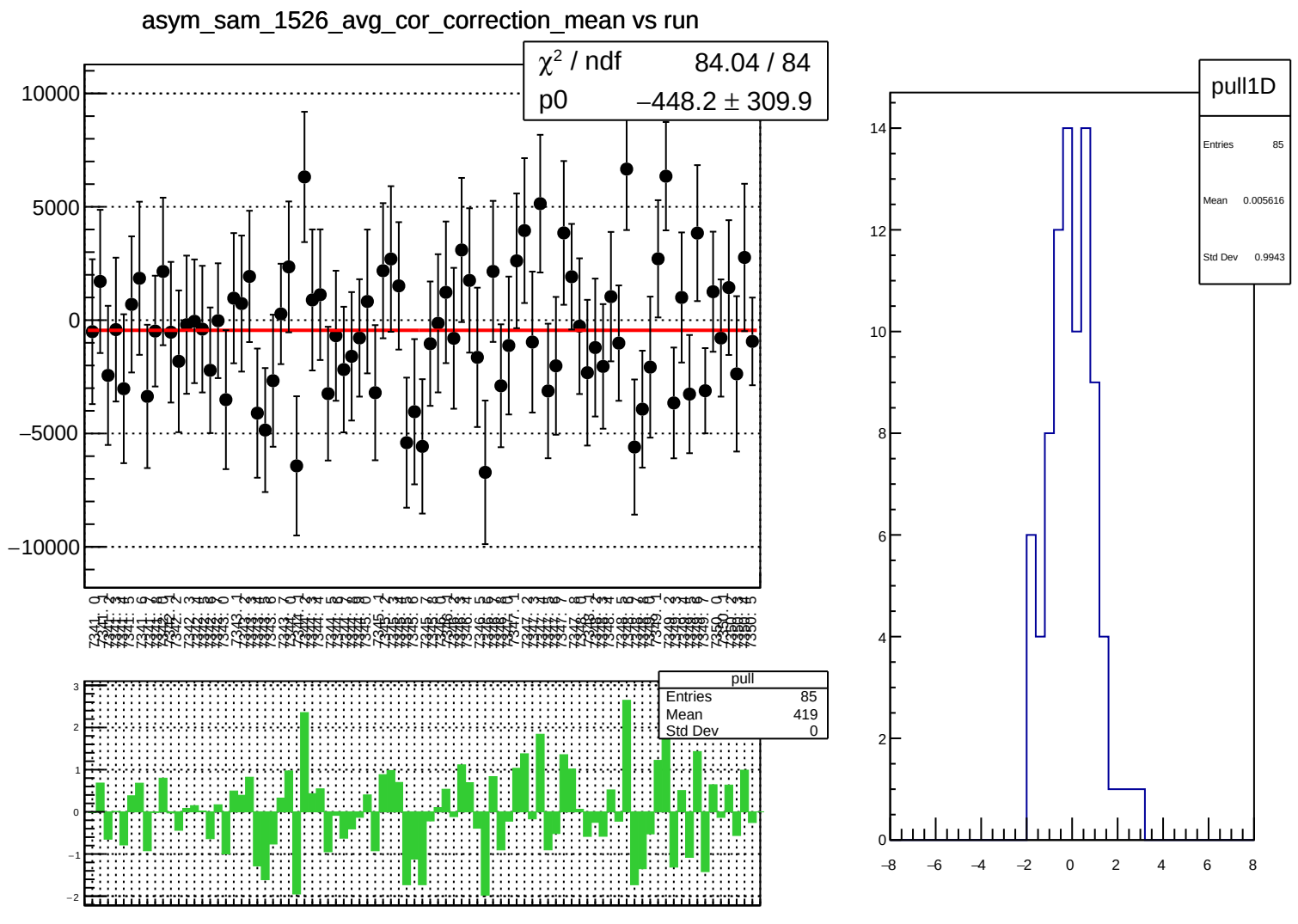

pull1D
Entries 85
Mean 0.005617
Std Dev 0.9944
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

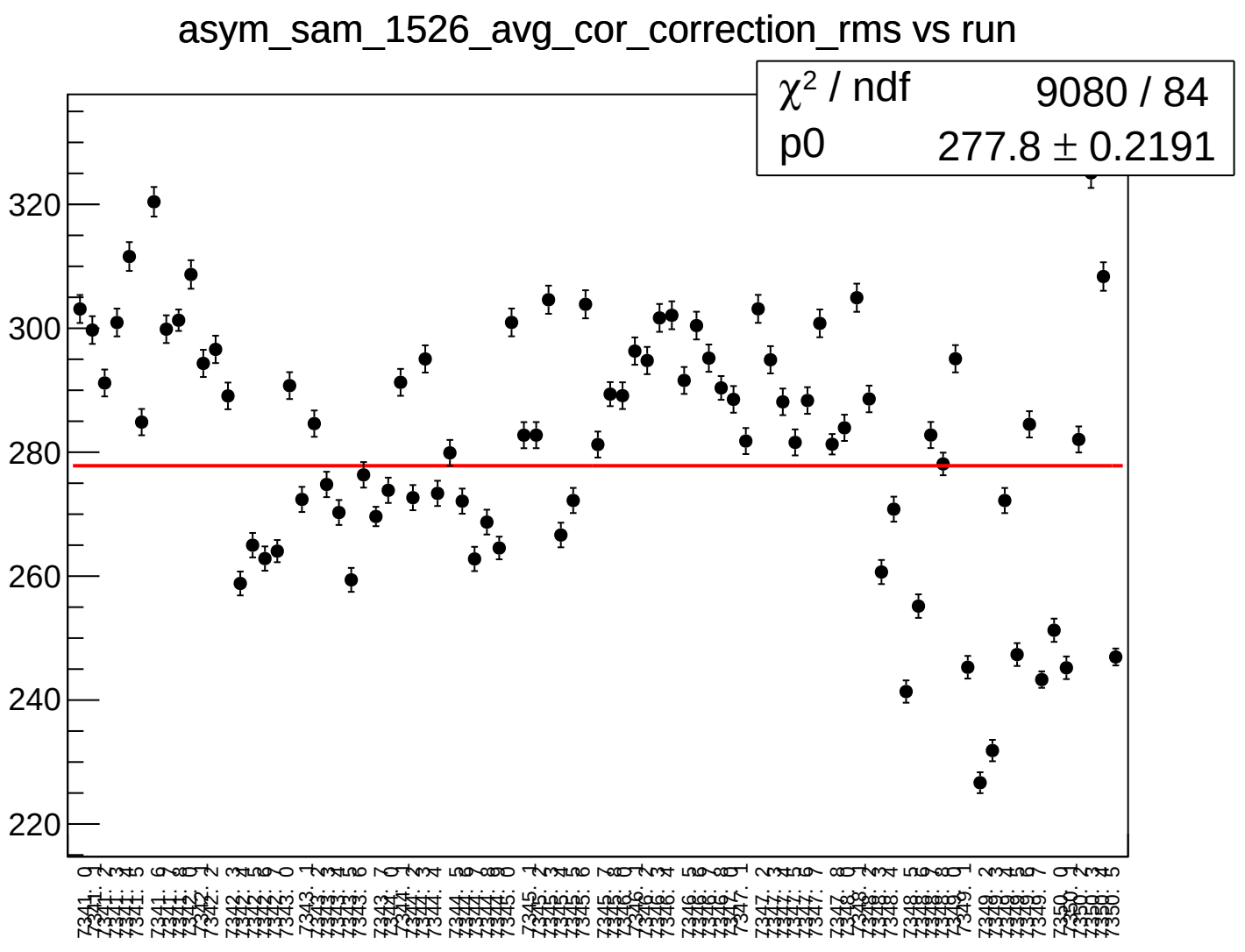

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 9079 / 84
p0 277.8 ± 0.2191
320
300
280
260
240
220

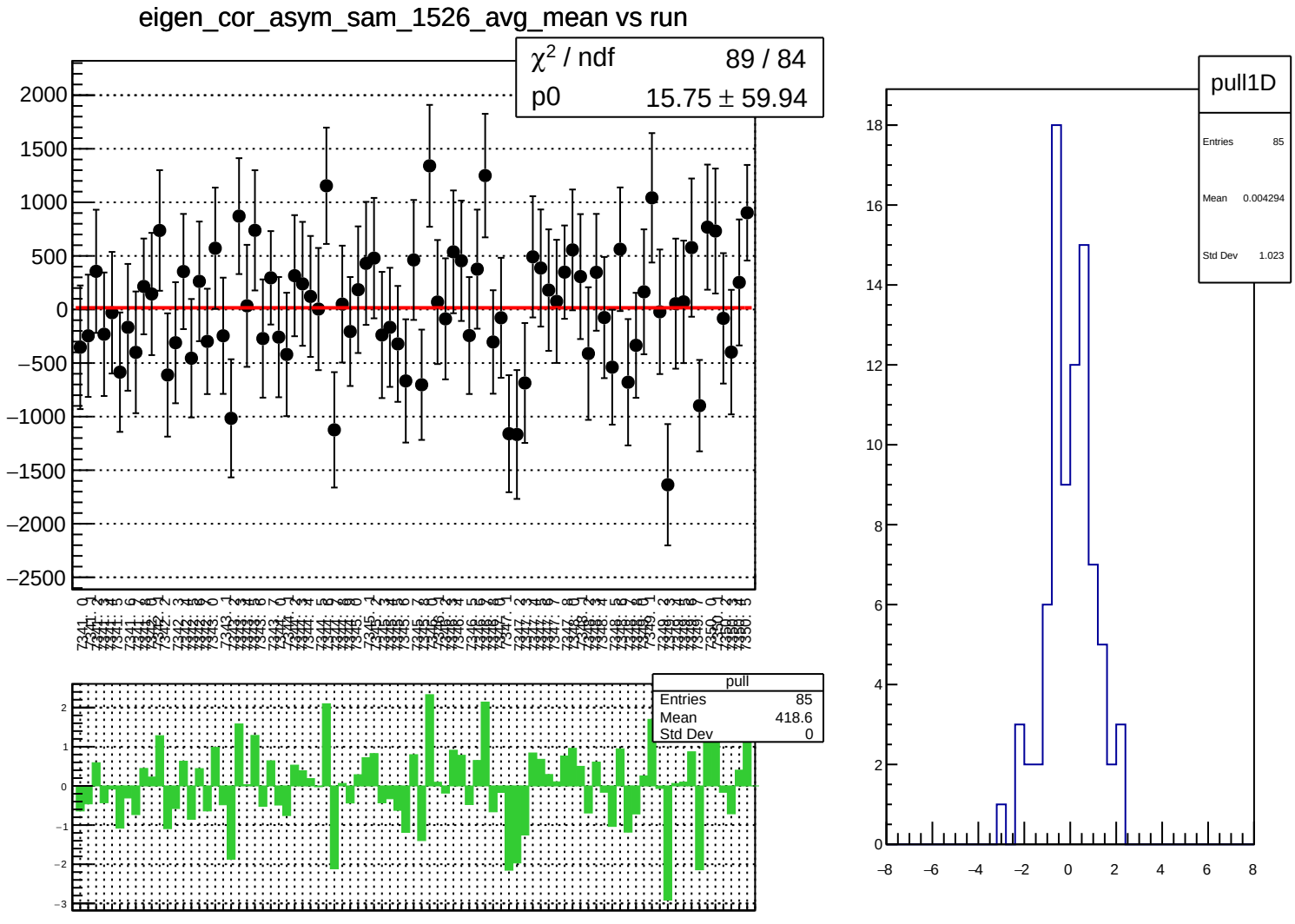

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 89 / 84
p0 15.75 ± 59.94
pull
Entries 85
Mean 418.6
Std Dev 0

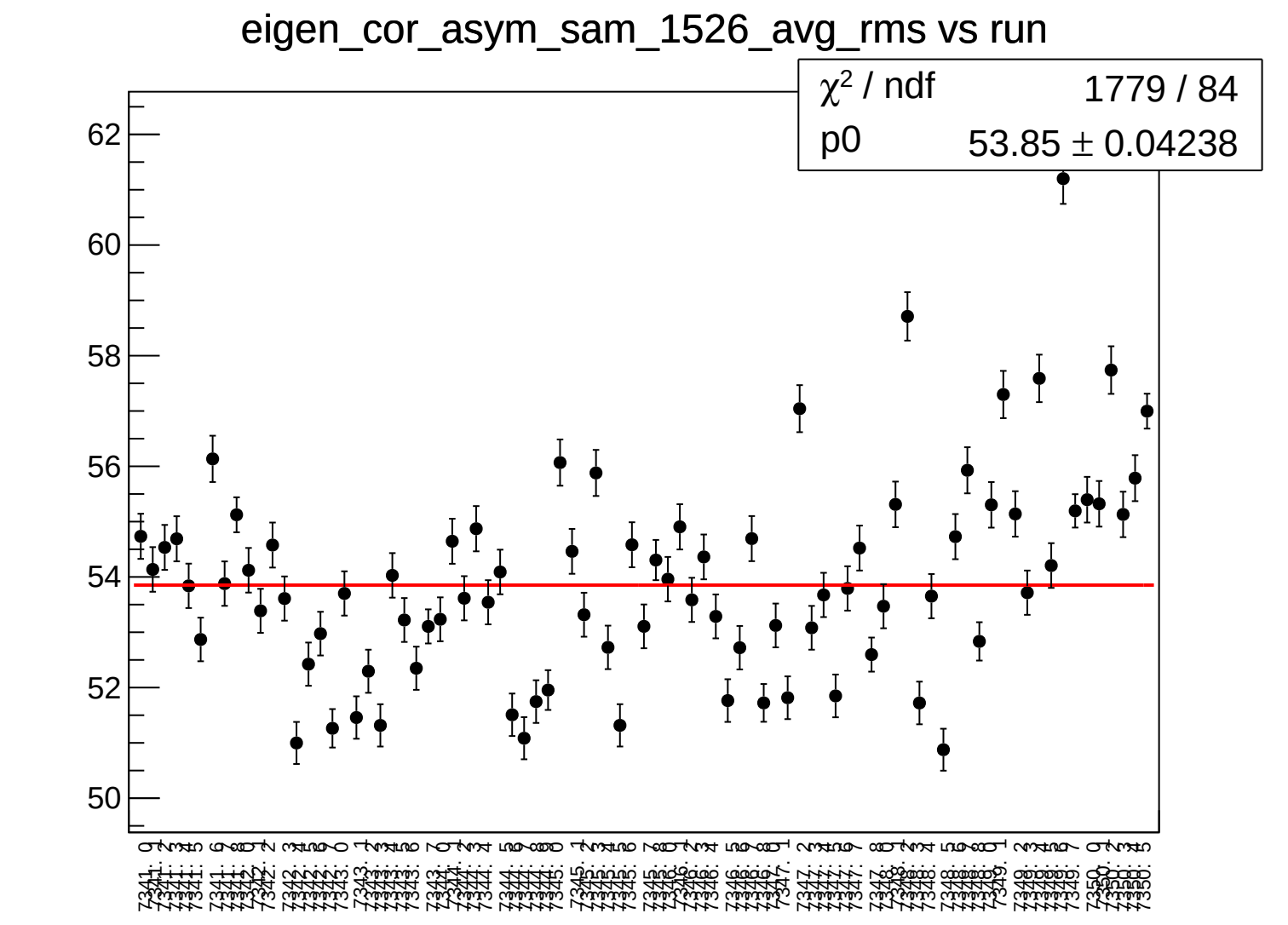

pull1D
Entries 85
Mean 0.004294
Std Dev 1.023

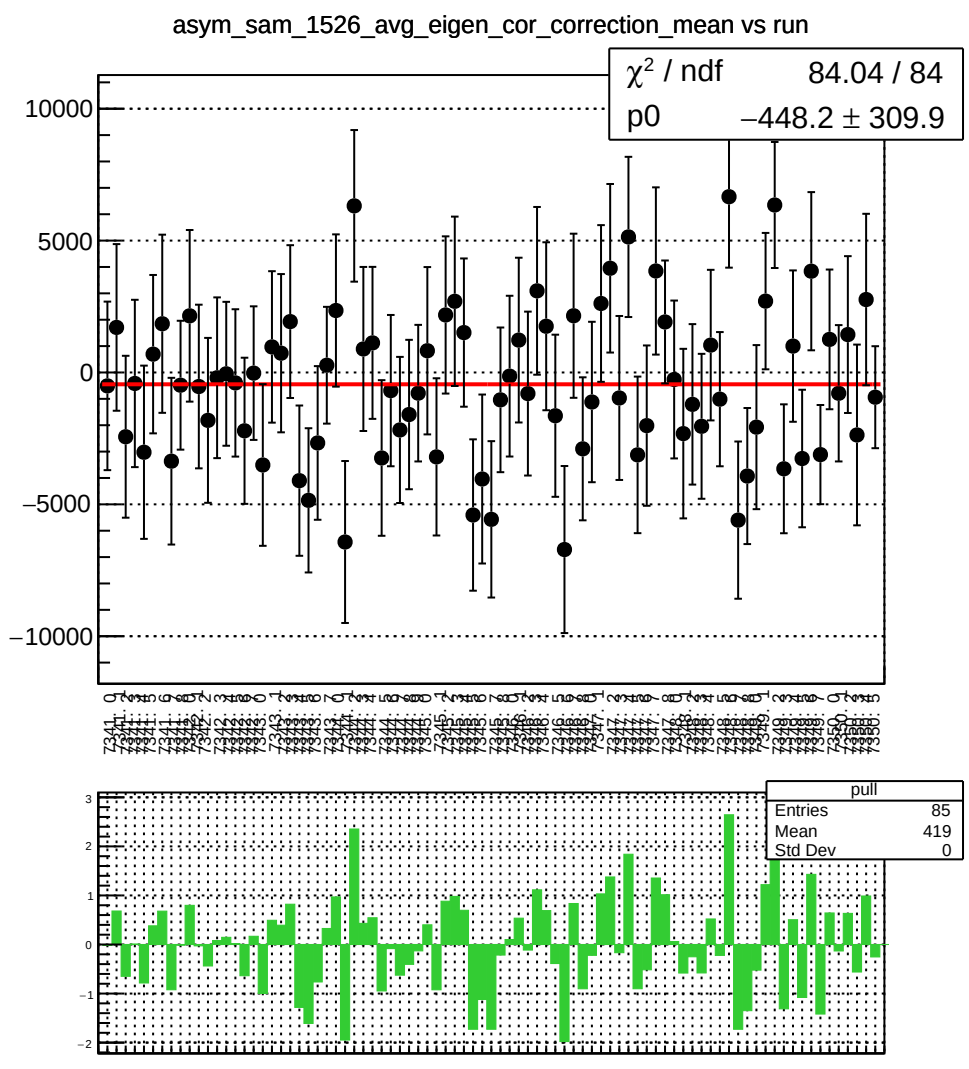

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1779 / 84
p0 53.85 ± 0.04238
62
60
58
56
54
52
50

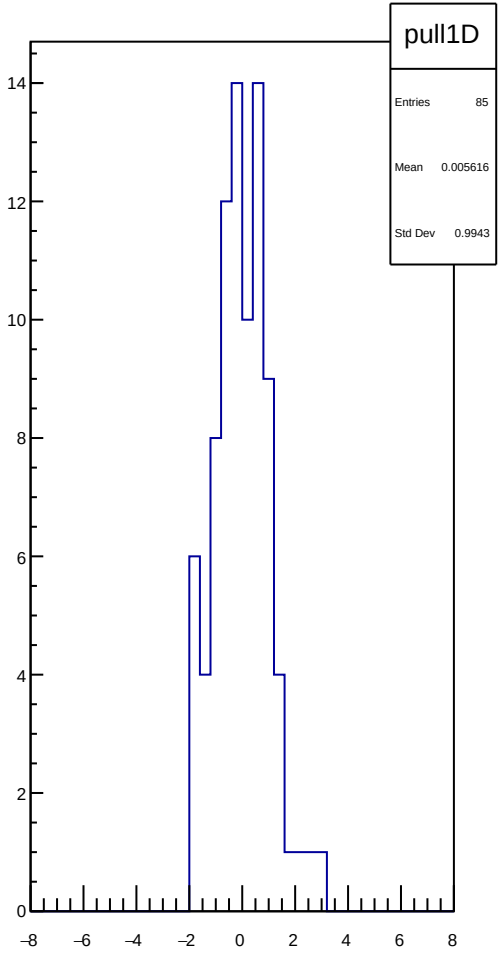

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 84.04 / 84
p0 −448.2 ± 309.9
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 419
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.005616
Std Dev 0.9943
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

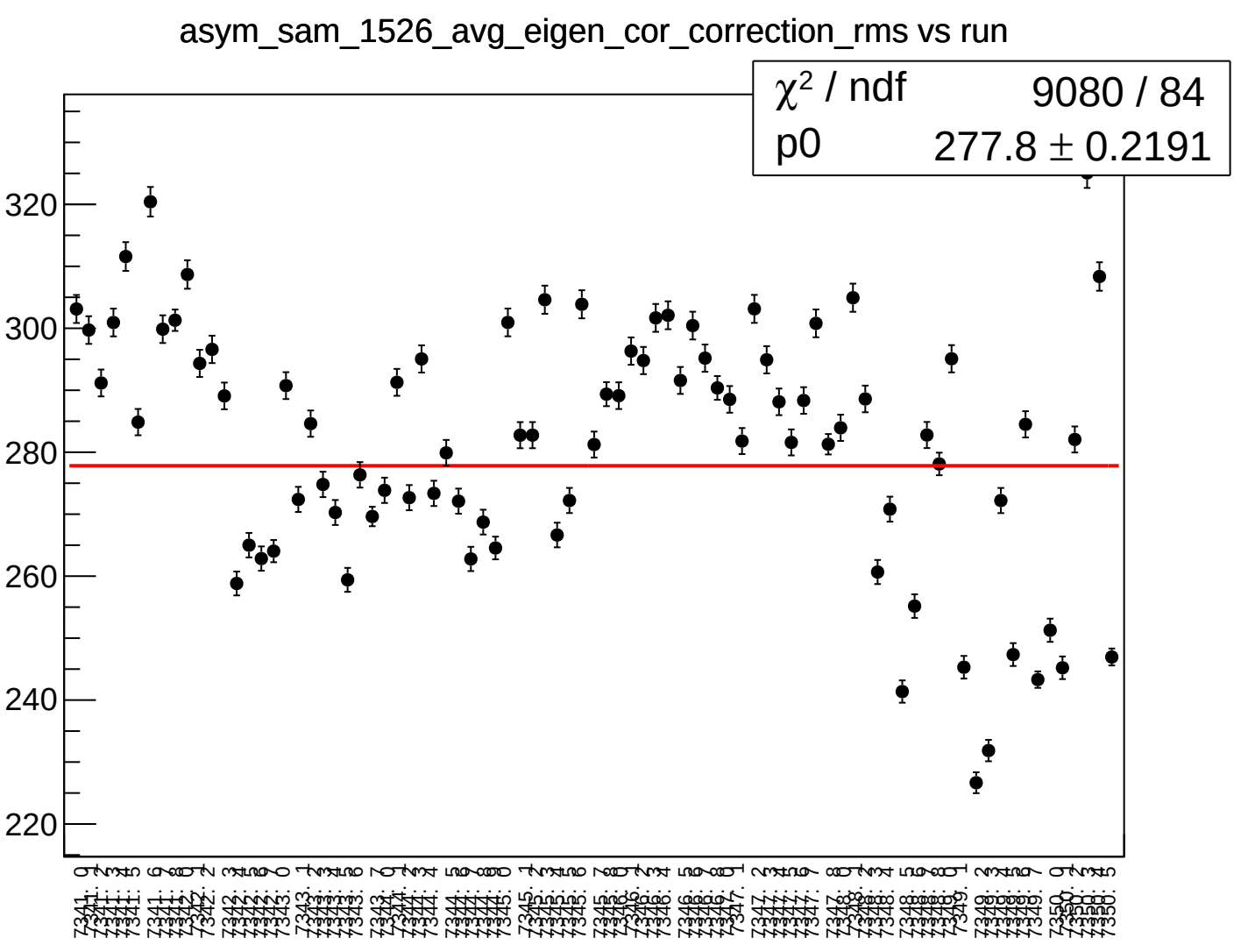

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 9080 / 84
p0 277.8 ± 0.2191
320
300
280
260
240
220

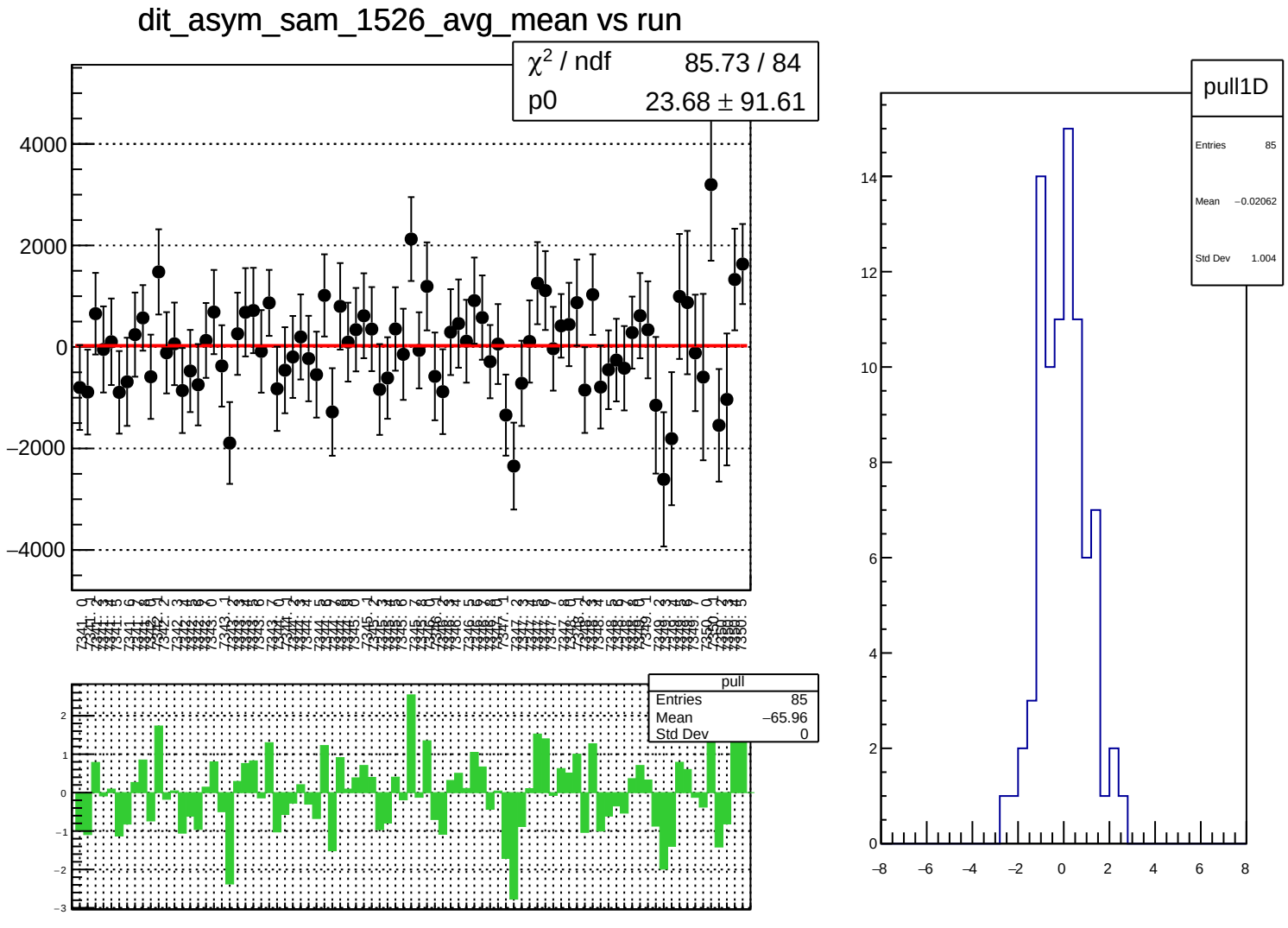

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 89 / 84
p0 15.75 ± 59.94
pull
Entries 85
Mean 418.6
Std Dev 0
pull1D
Entries 85
Mean 0.004294
Std Dev 1.023

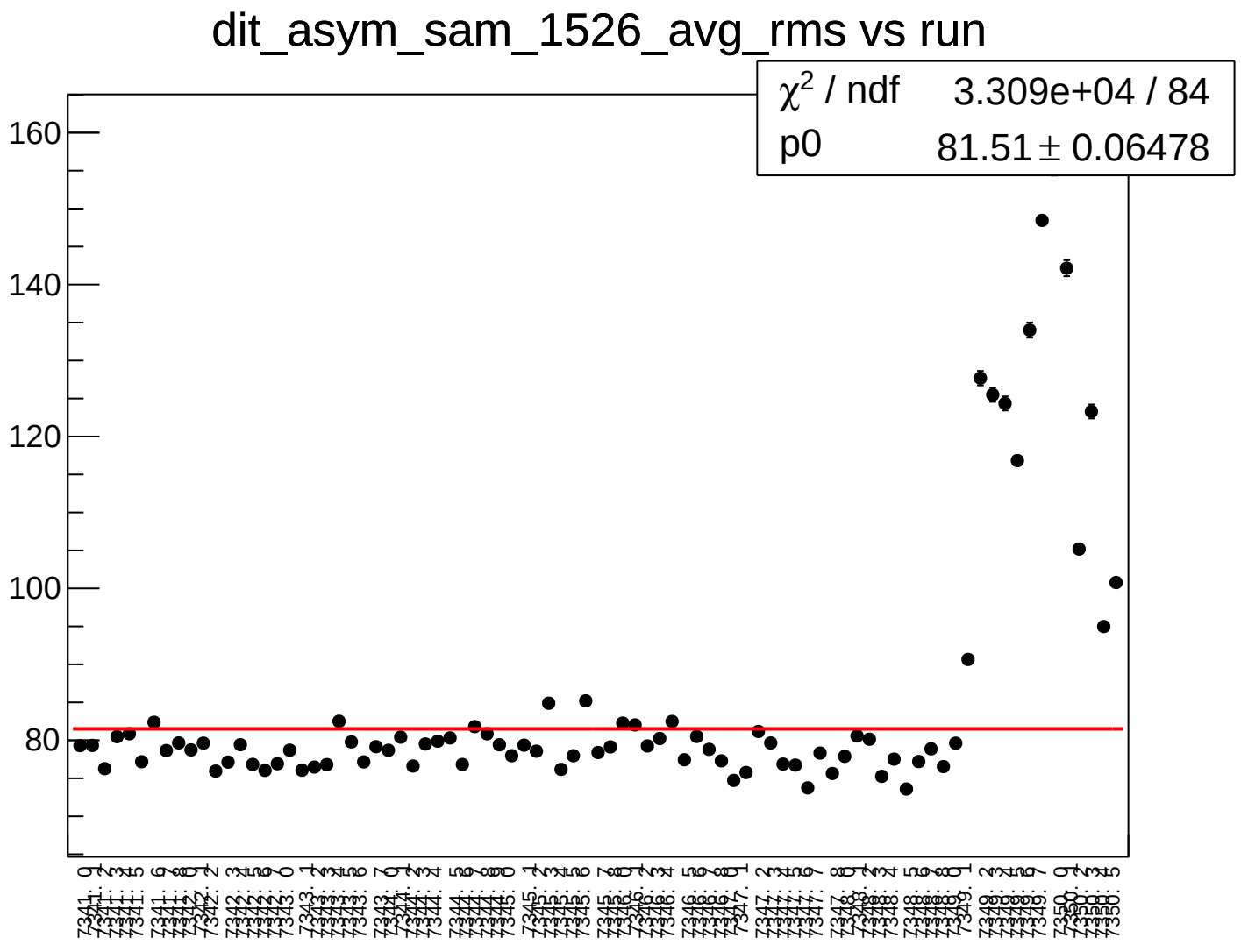

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1779 / 84
p0 53.85 ± 0.04238
62
60
58
56
54
52
50

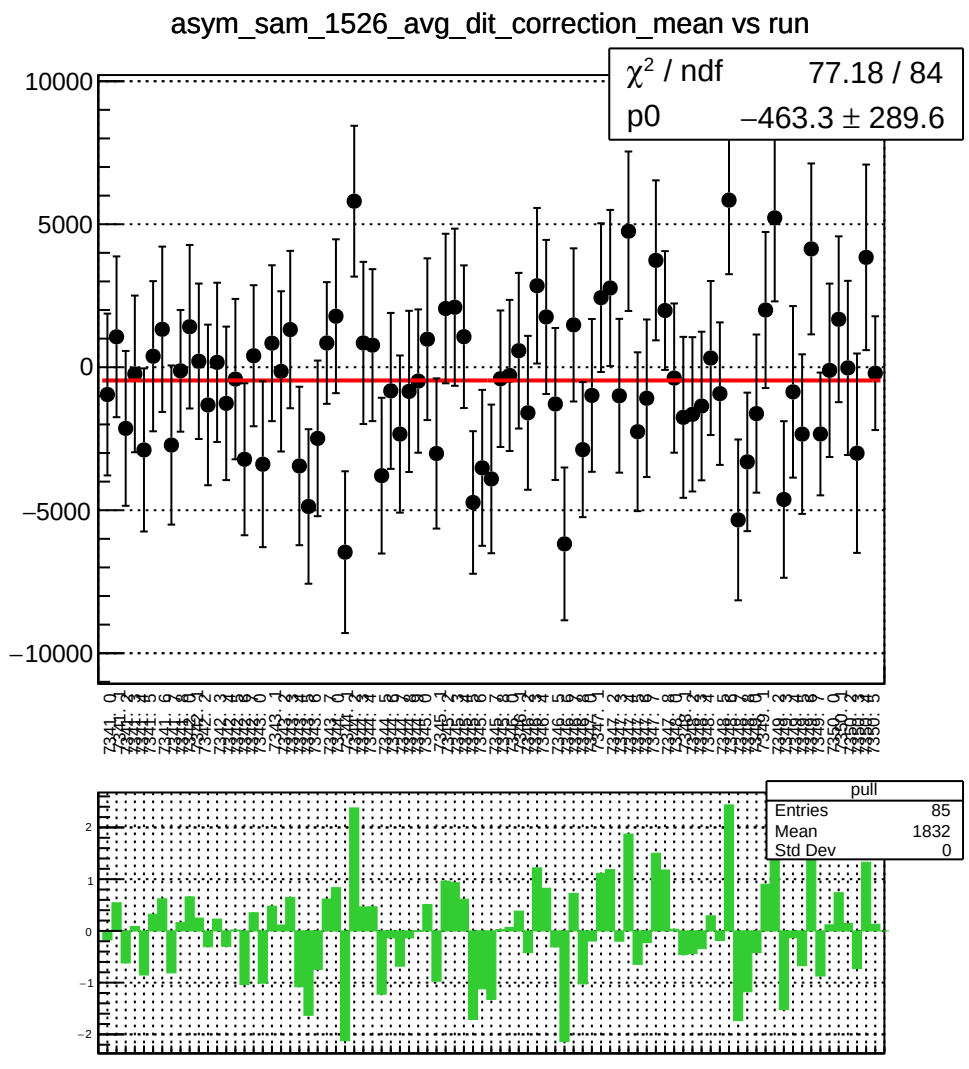

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.04 / 84
p0 −448.2 ± 309.9
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 419
Std Dev 0
3
2
1
0
−1
−2

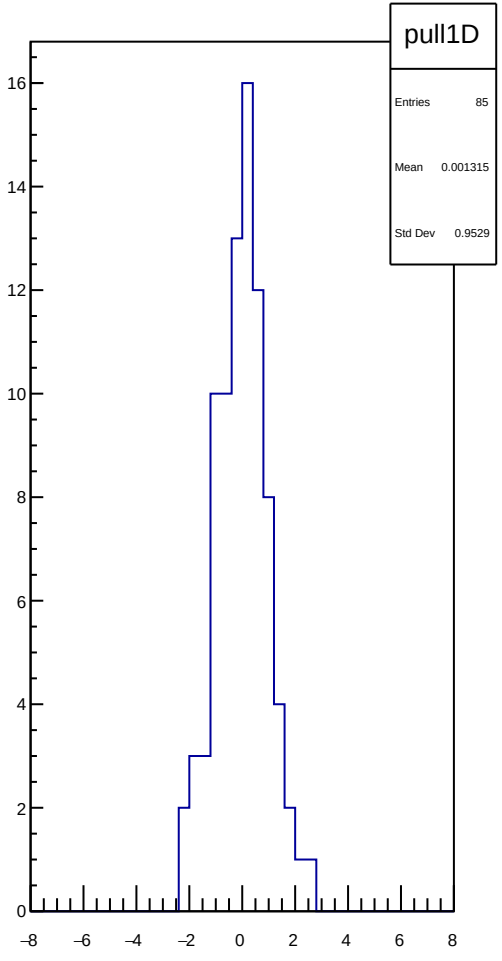

pull1D
Entries 85
Mean 0.005616
Std Dev 0.9943
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

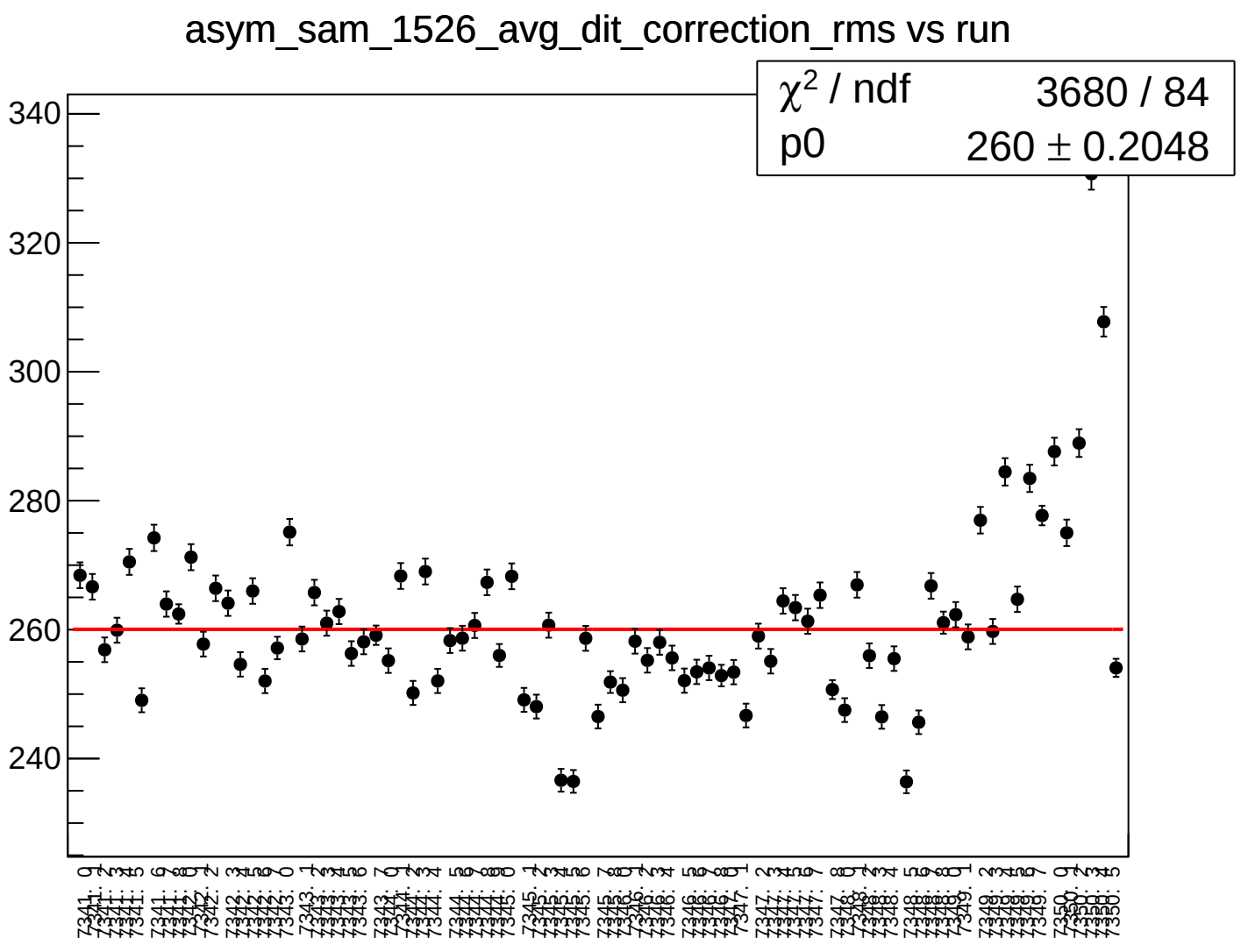

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 9080 / 84
p0 277.8 ± 0.2191
320
300
280
260
240
220

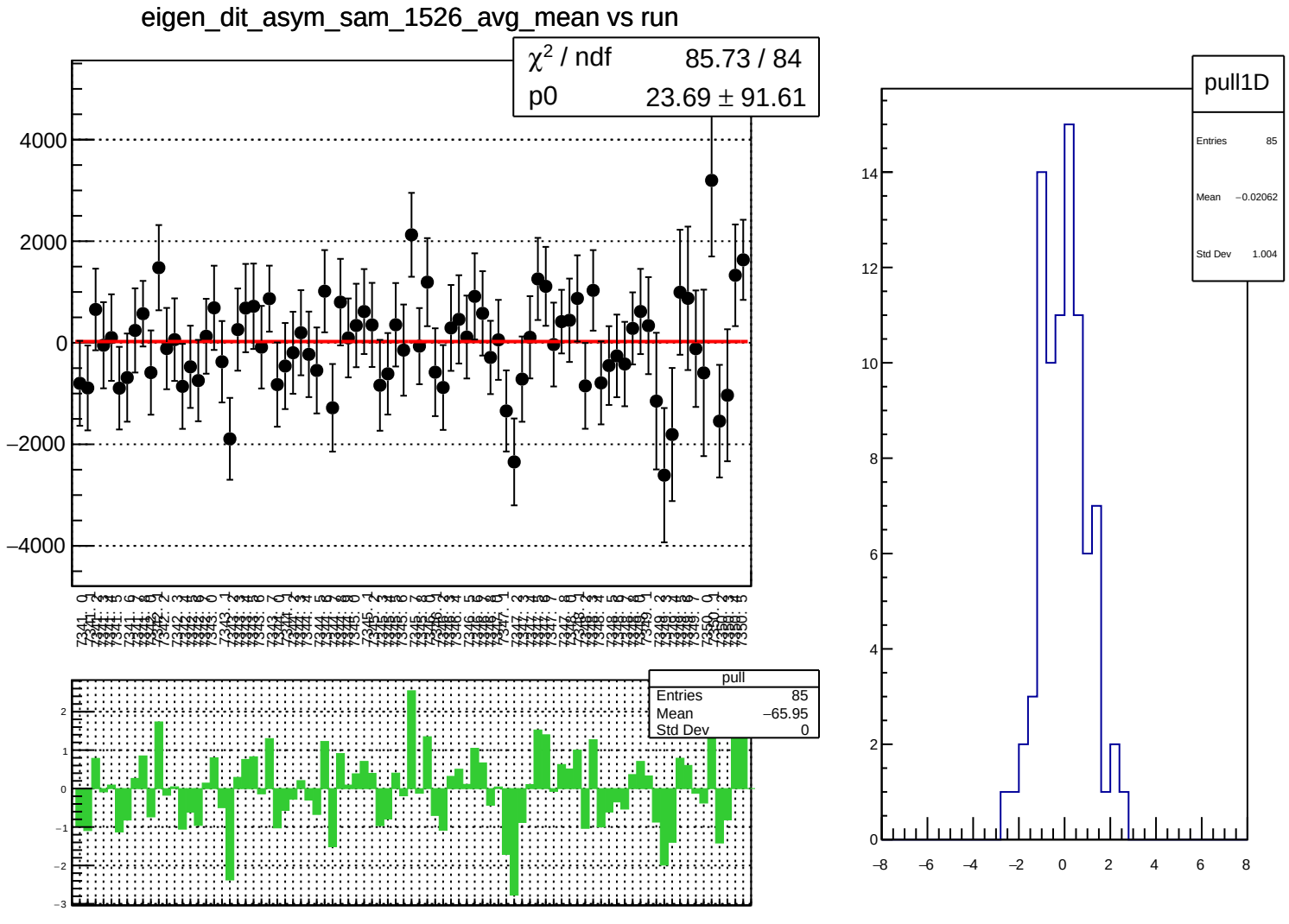

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 85.73 / 84
p0 23.68 ± 91.61
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −65.96
Std Dev 0
pull1D
Entries 85
Mean −0.02062
Std Dev 1.004

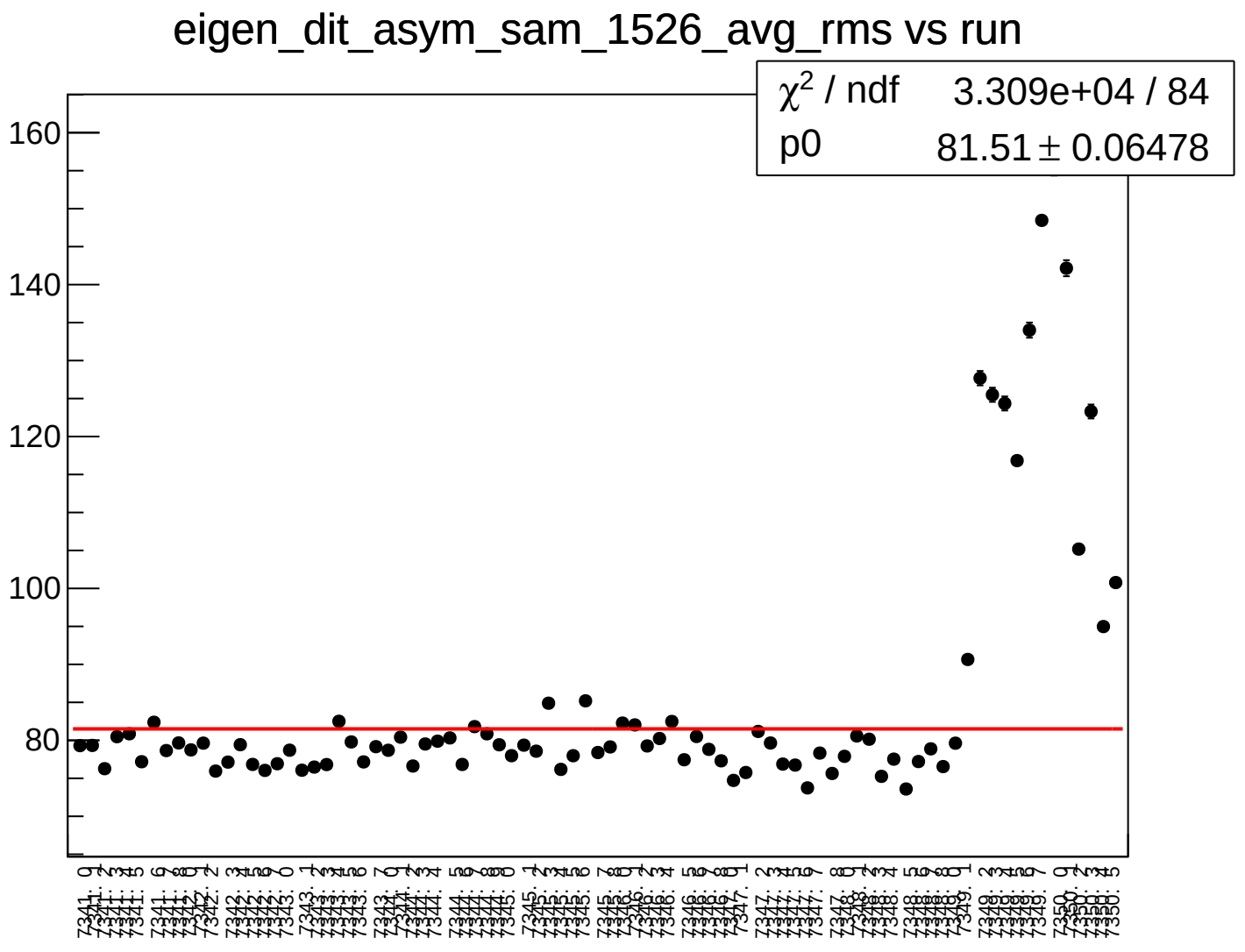

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.309e+04 / 84
p0 81.51 ± 0.06478
160
140
120
100
80

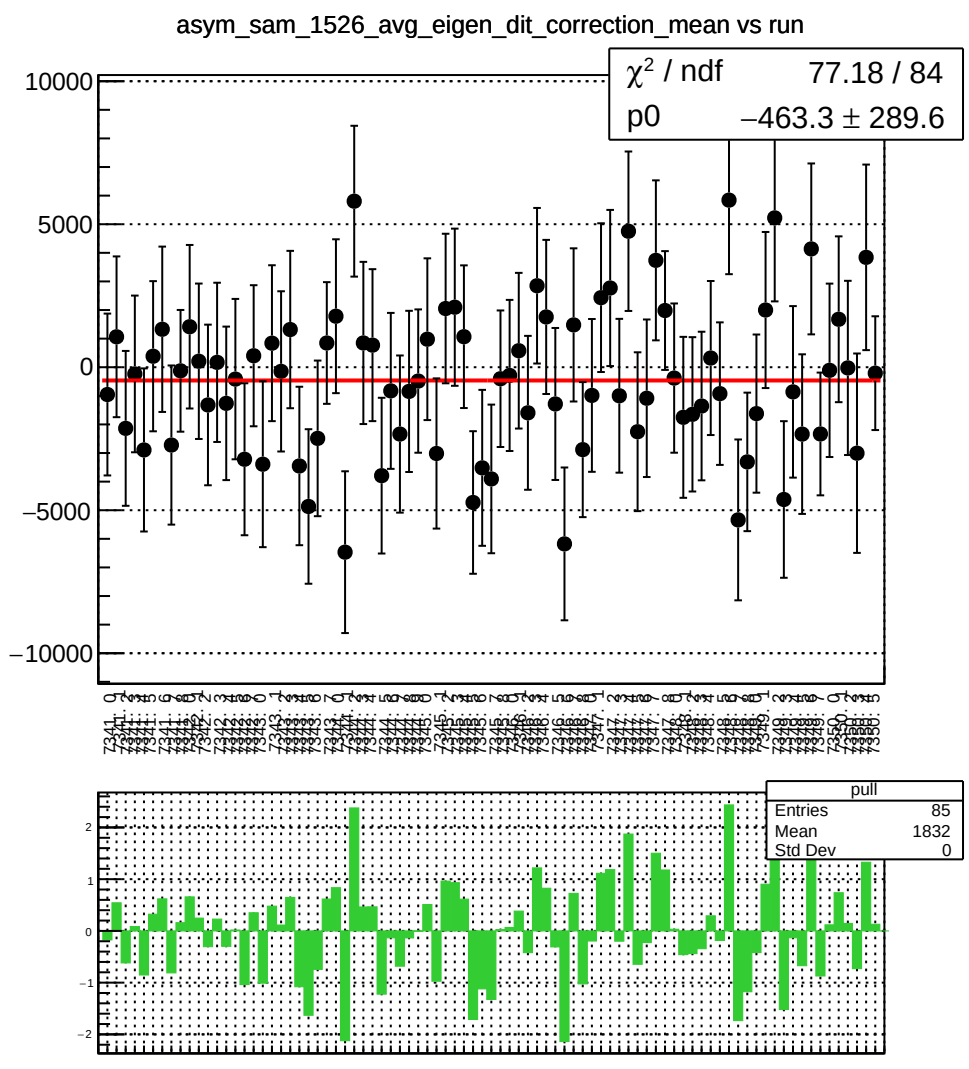

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 77.18 / 84
p0 −463.3 ± 289.6
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 1832
Std Dev 0

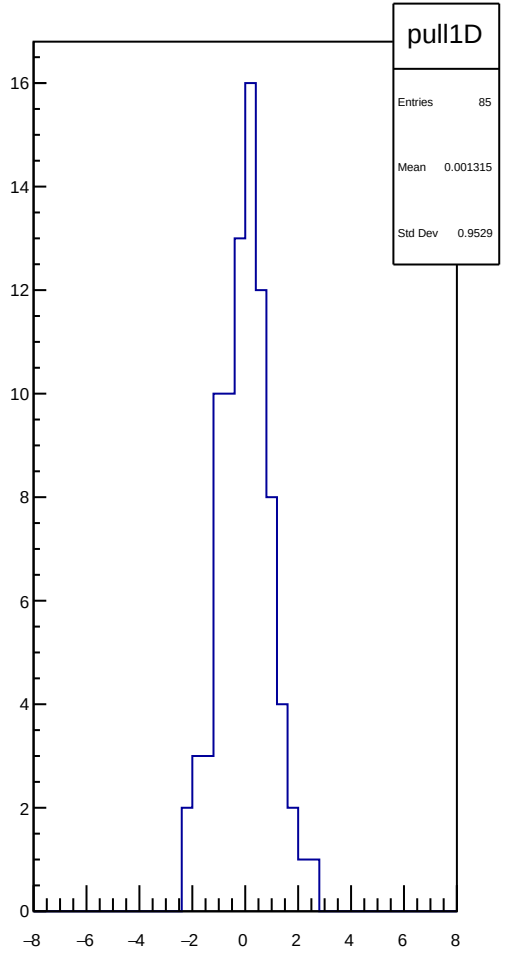

pull1D
Entries 85
Mean 0.001315
Std Dev 0.9529
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

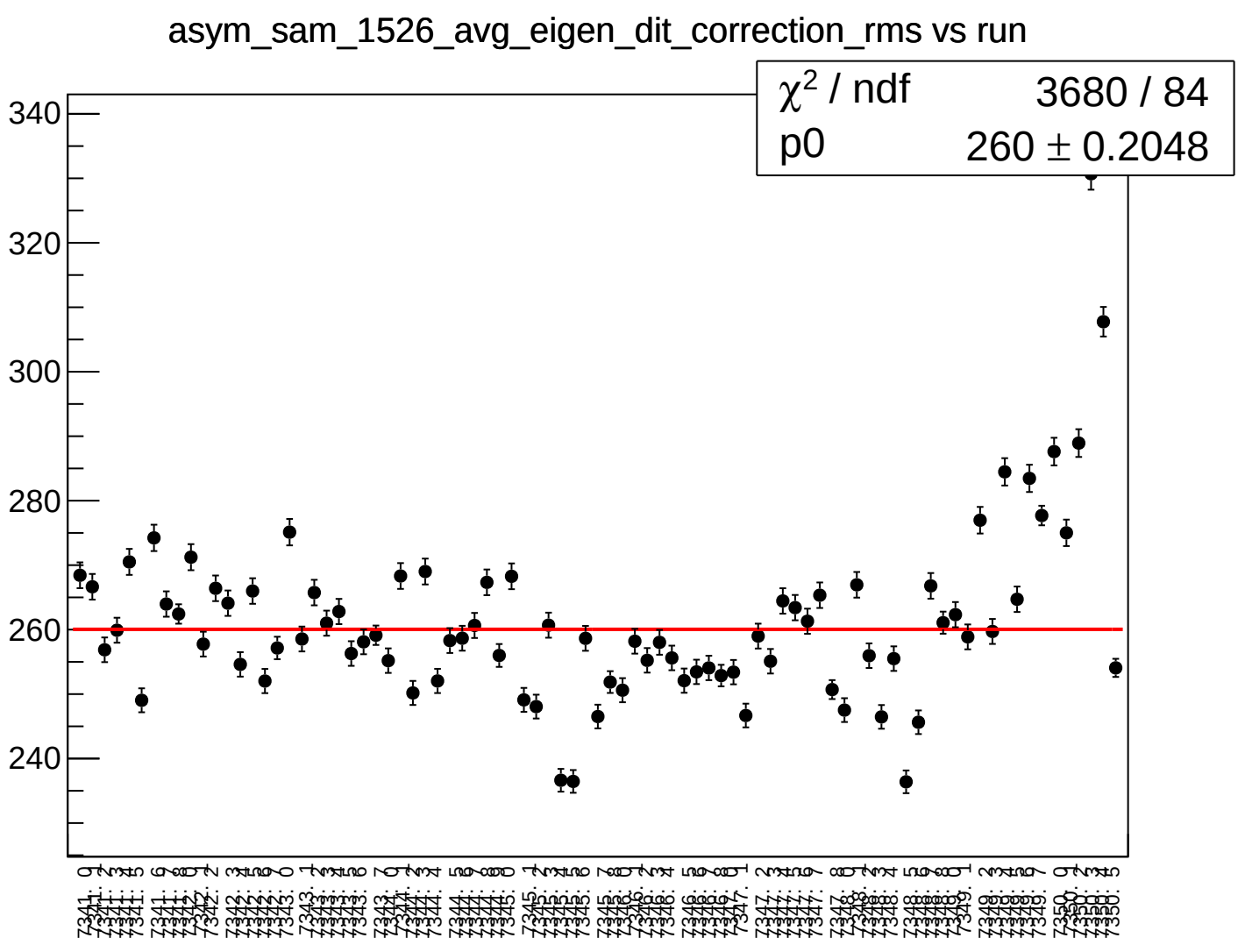

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 3680 / 84
p0 260 ± 0.2048
340
320
300
280
260
240

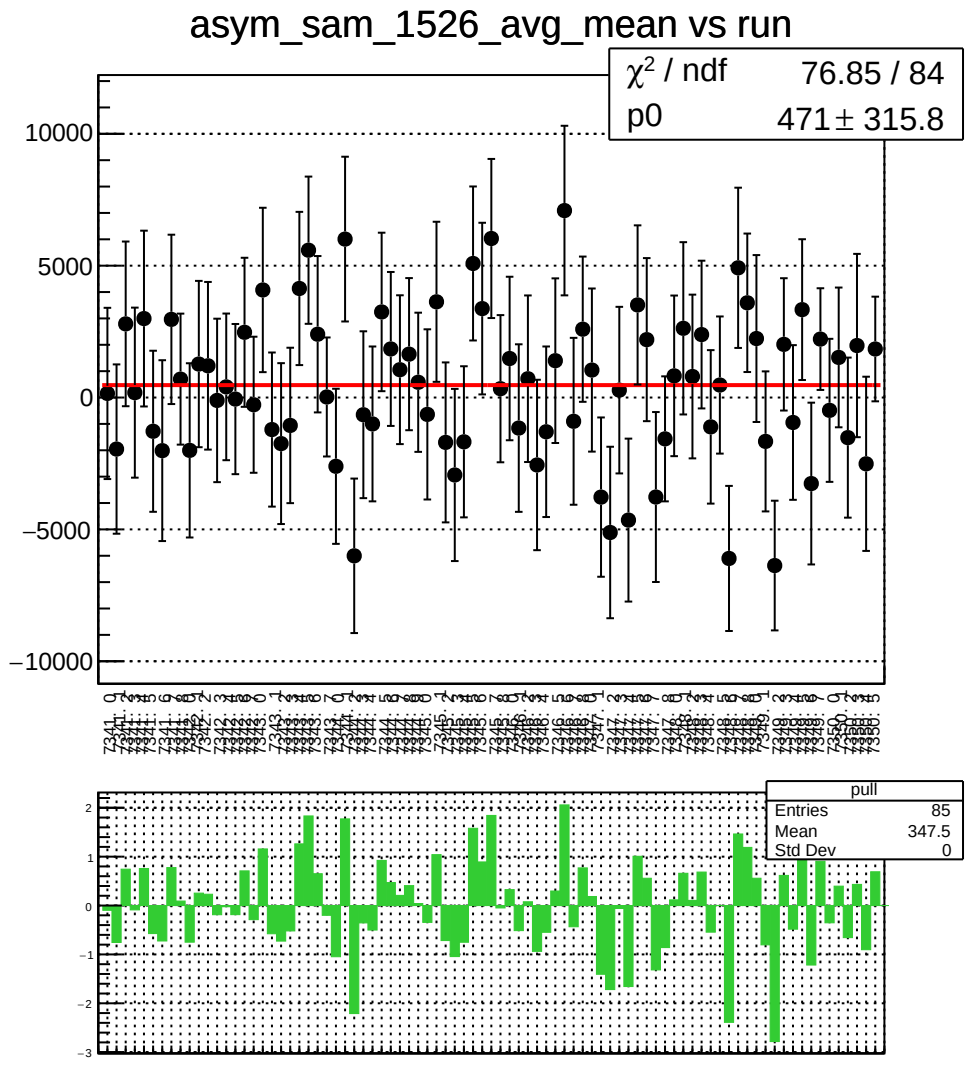

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 85.73 / 84
p0 23.69 ± 91.61
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −65.95
Std Dev 0
pull1D
Entries 85
Mean −0.02062
Std Dev 1.004

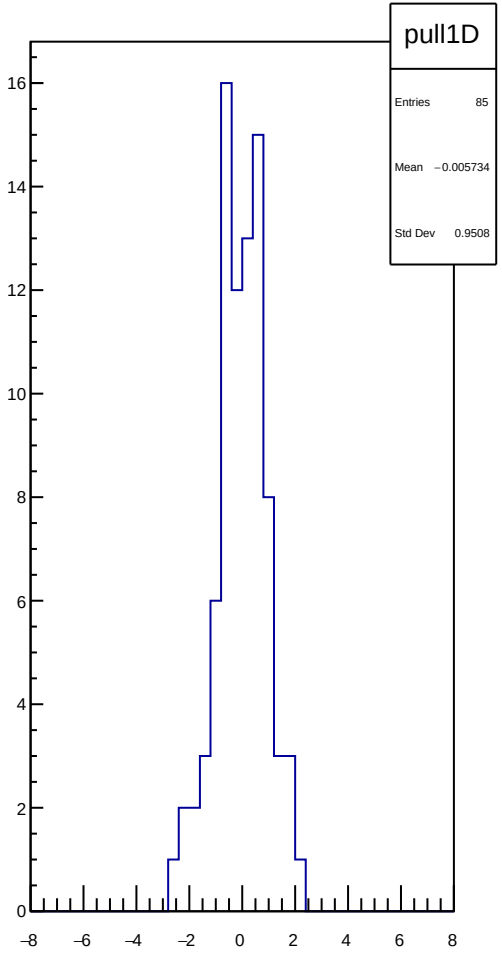

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 3.309e+04 / 84
p0 81.51 ± 0.06478
160
140
120
100
80

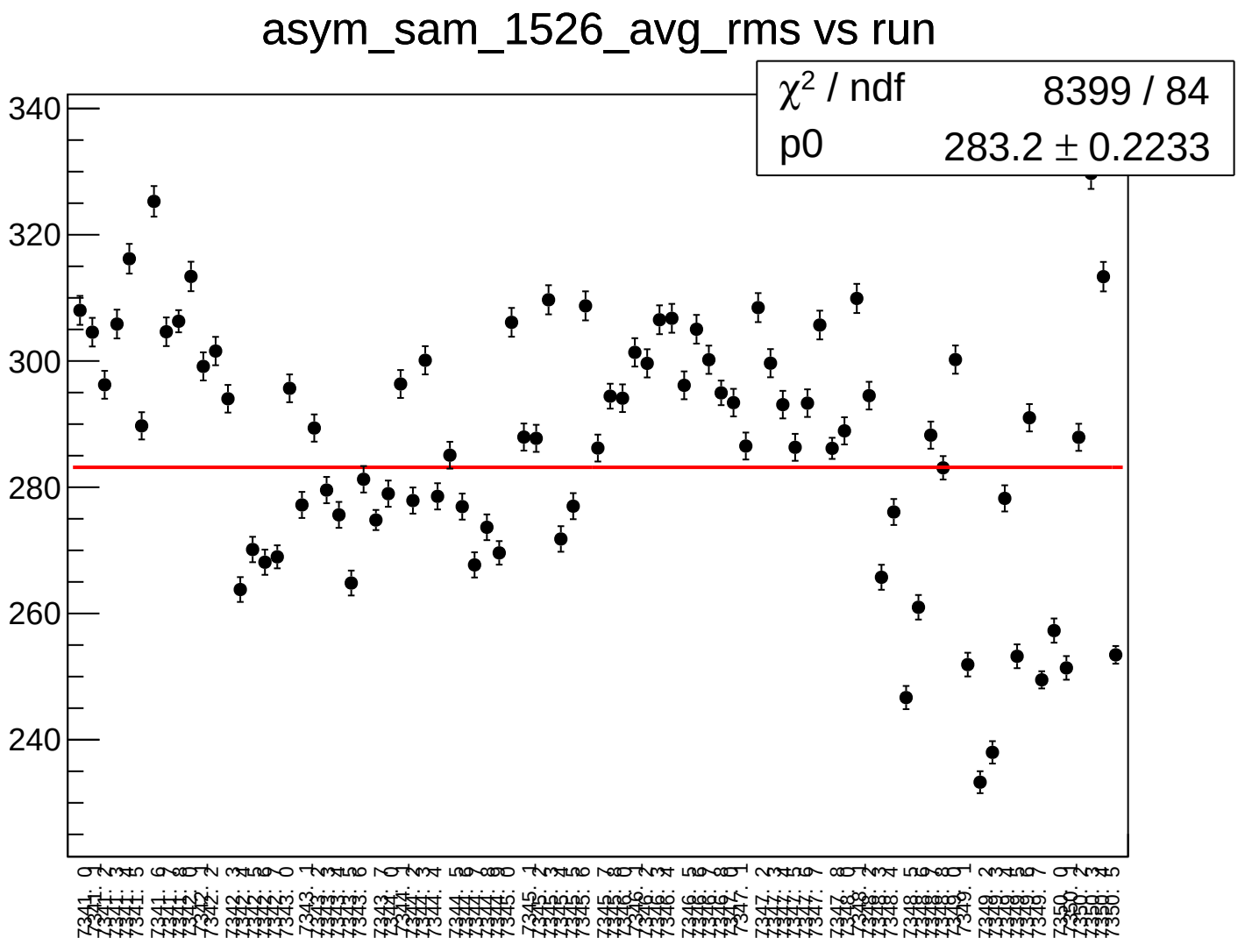

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.18 / 84
p0 −463.3 ± 289.6
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 1832
Std Dev 0
2
1
0
−1
−2

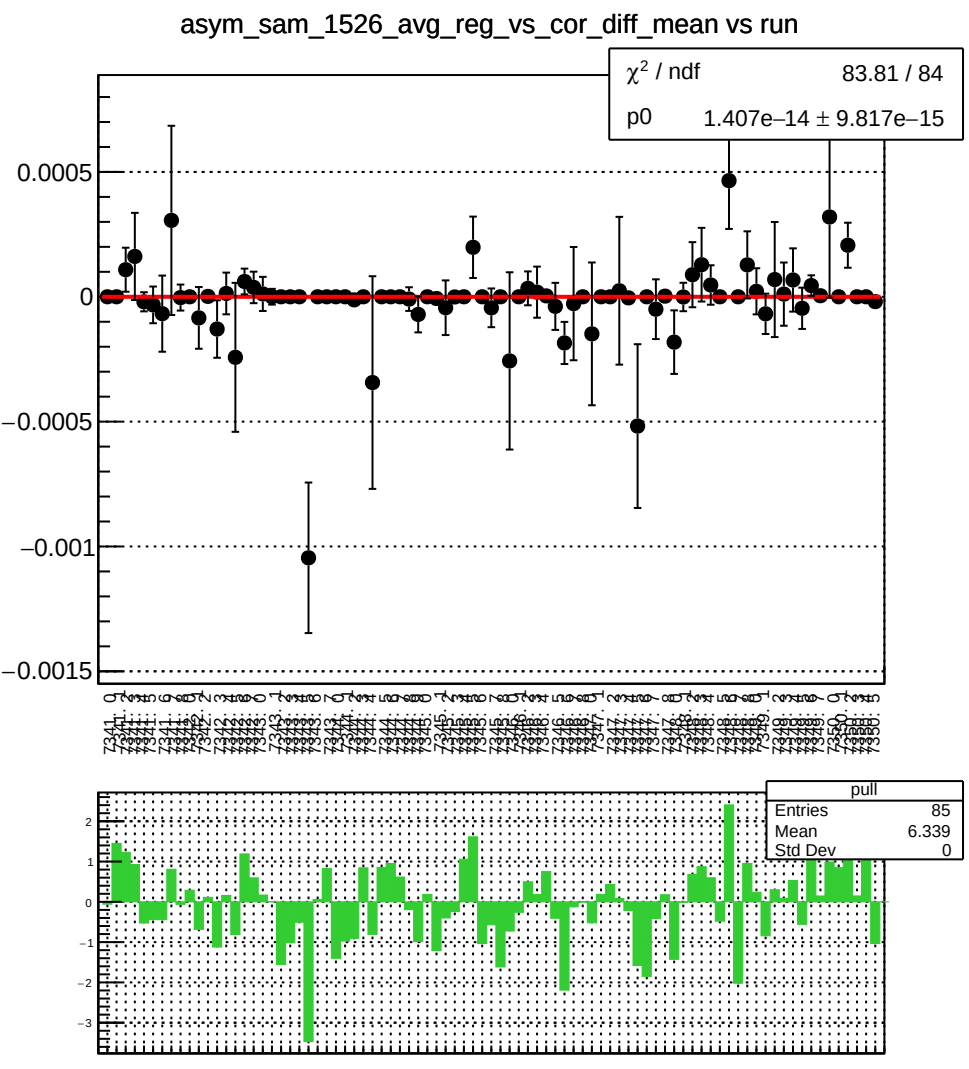

pull1D
Entries 85
Mean 0.001315
Std Dev 0.9529
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

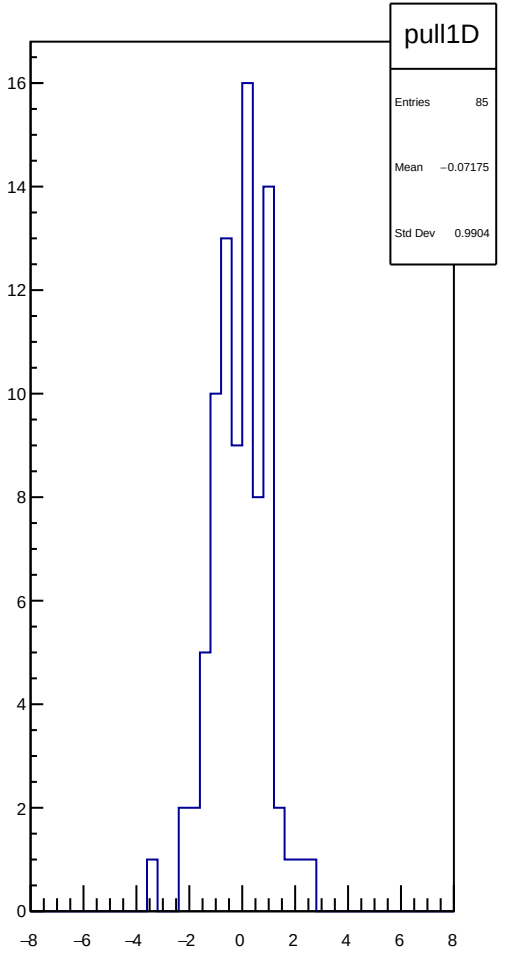

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 3680 / 84
p0 260 ± 0.2048
340
320
300
280
260
240

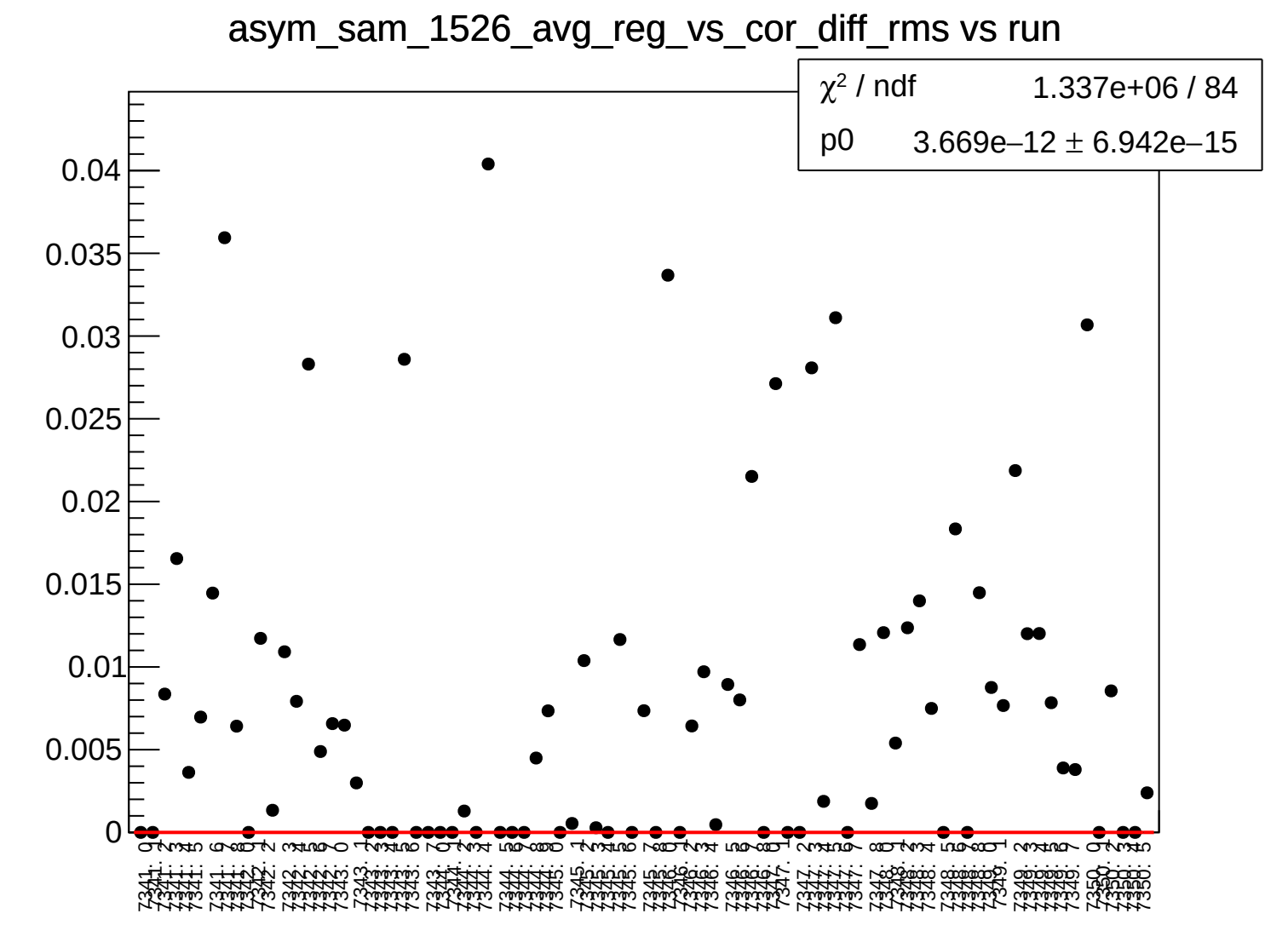

asym_sam_1526_avg_mean vs run
χ² / ndf 76.85 / 84
p0 471 ± 315.8
10000
5000
0
−5000
−10000
pull
Entries 85
Mean 347.5
Std Dev 0
2
1
0
−1
−2
−3

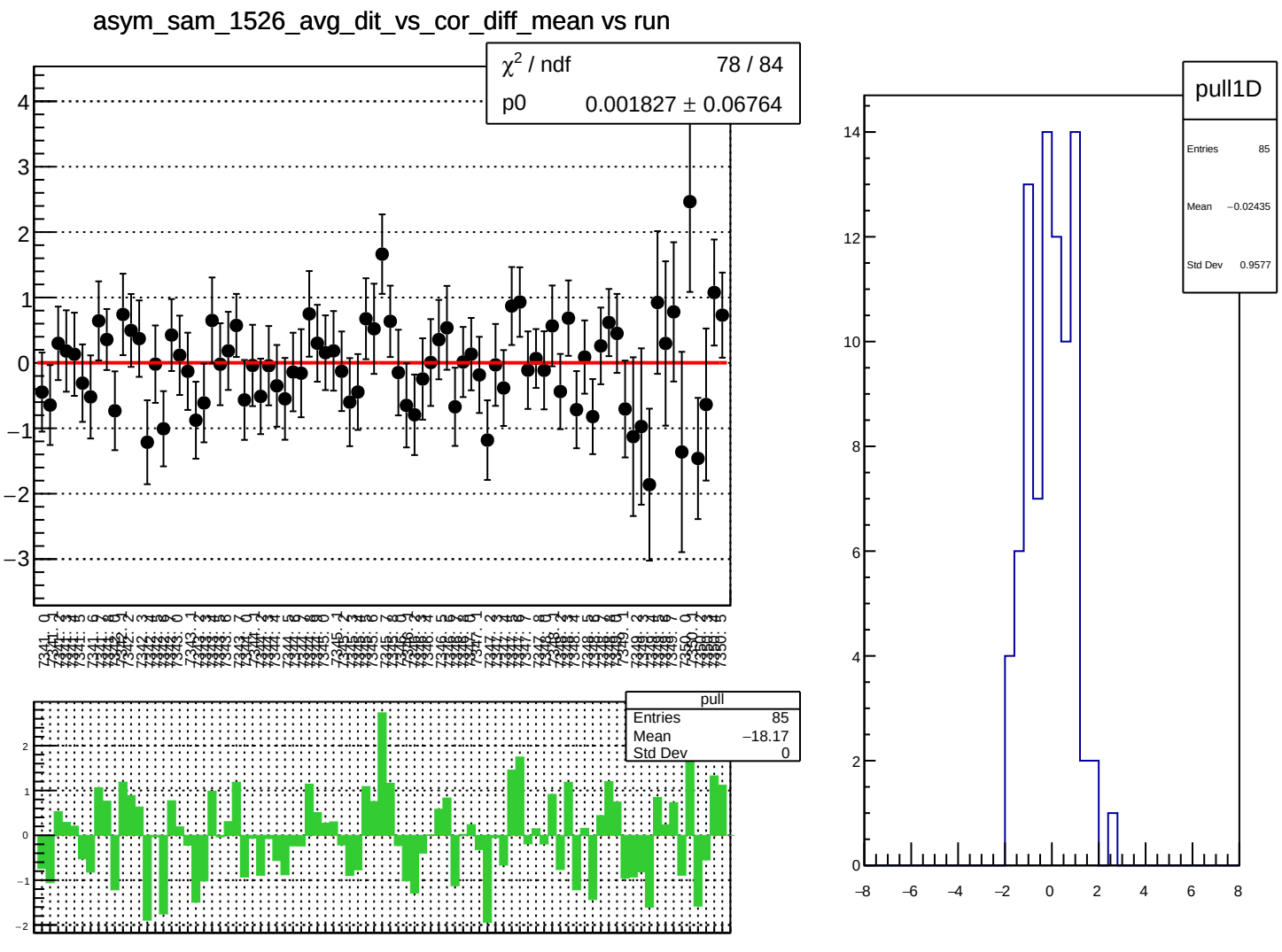

pull1D
Entries 85
Mean −0.005734
Std Dev 0.9508
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

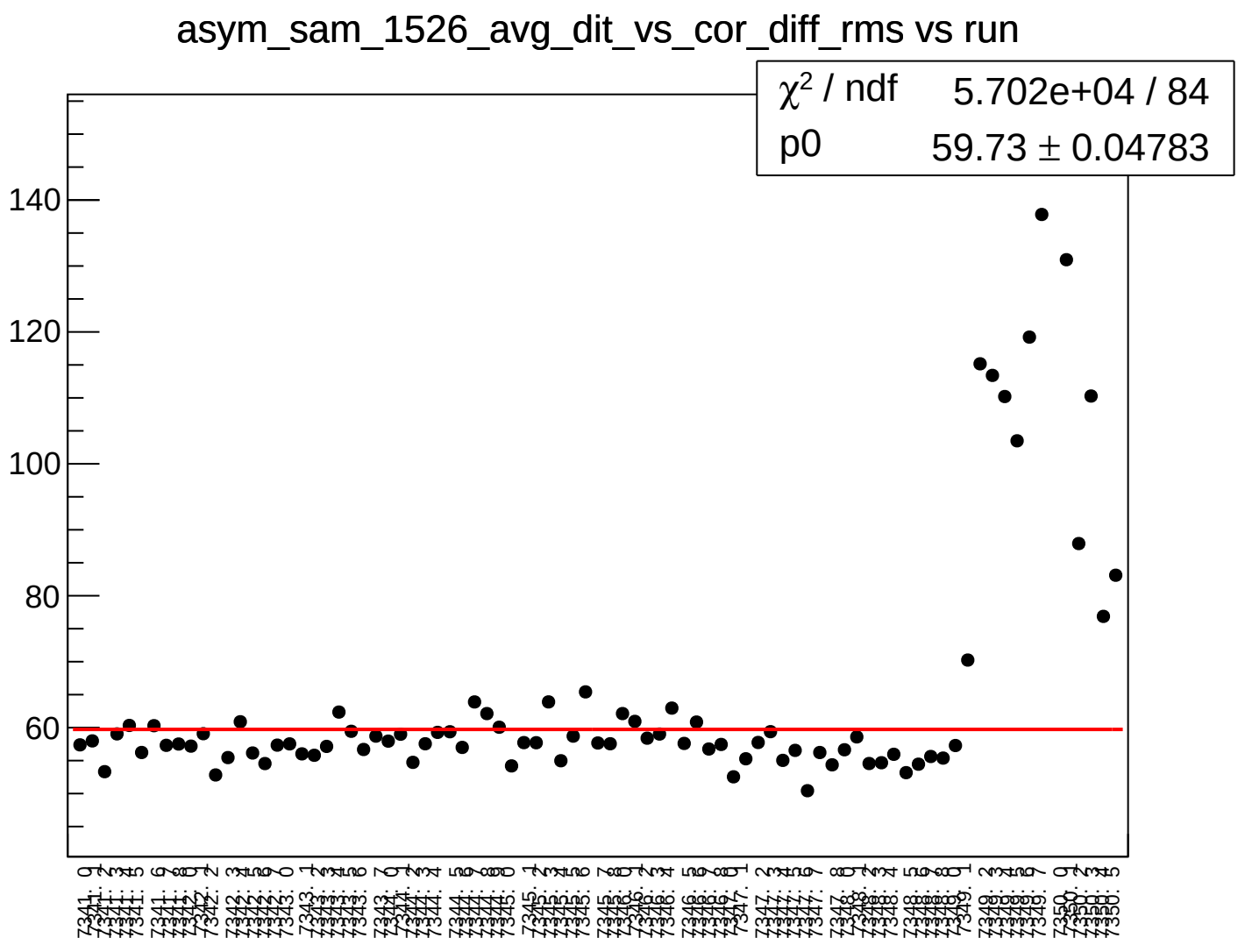

asym_sam_1526_avg_rms vs run
χ² / ndf 8399 / 84
p0 283.2 ± 0.2233
340
320
300
280
260
240

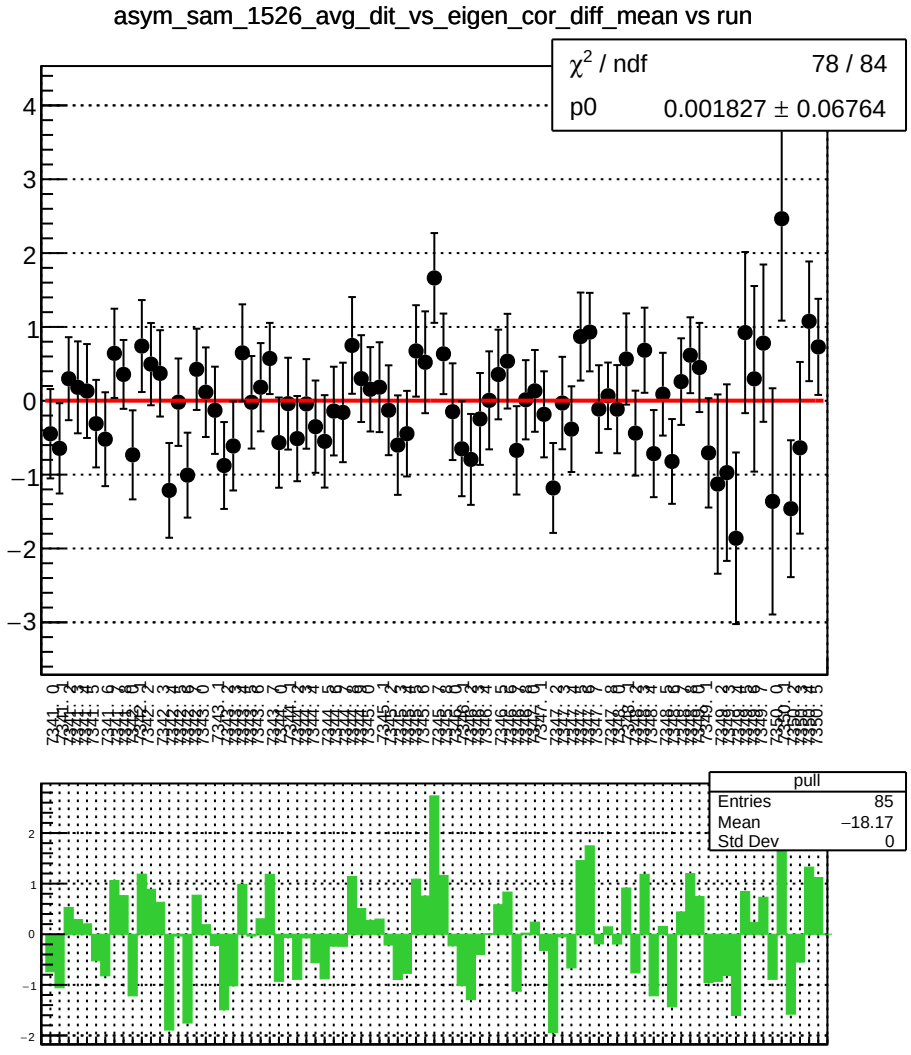

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.81 / 84
p0 1.407e−14 ± 9.817e−15
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean 6.339
Std Dev 0
2
1
0
−1
−2
−3

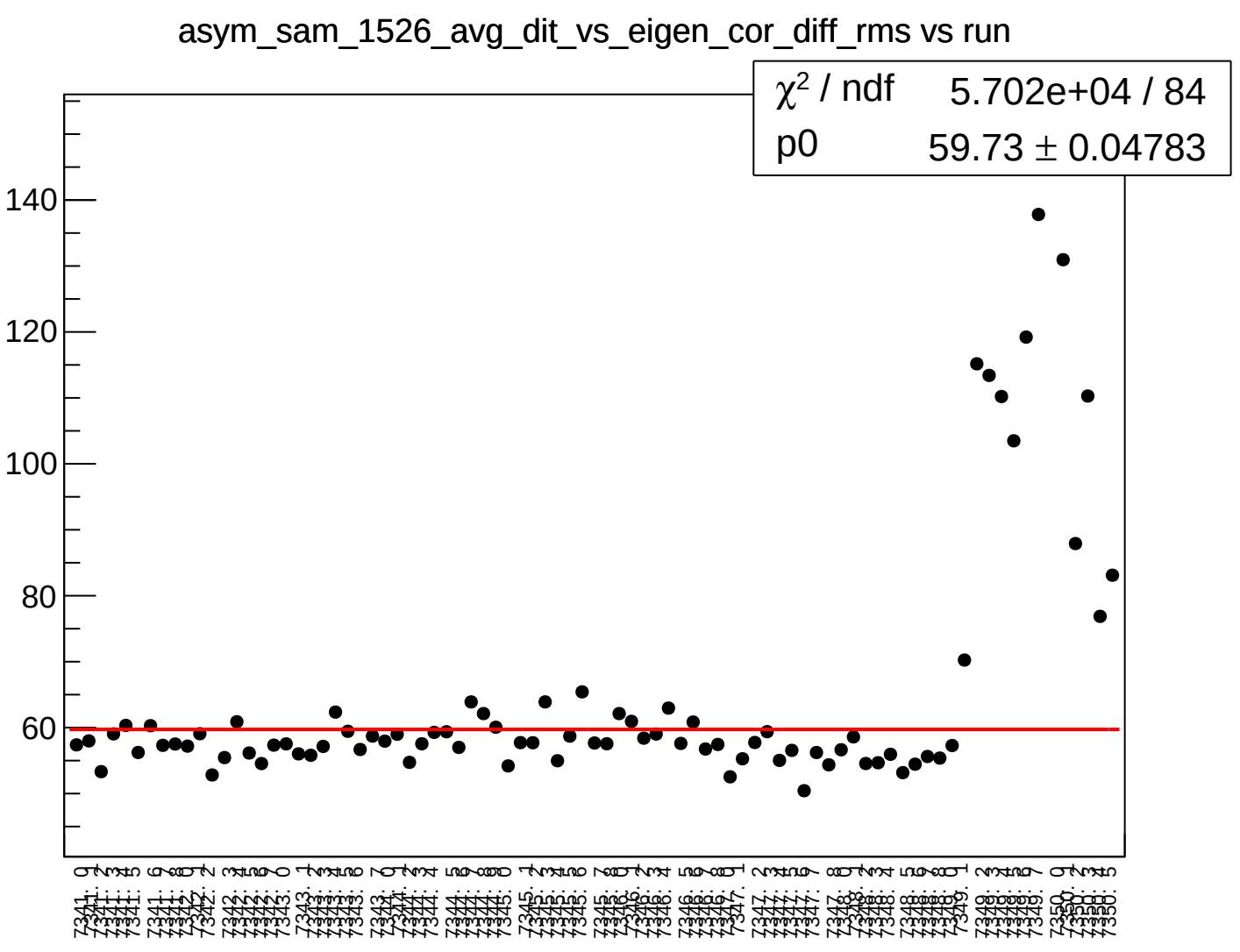

pull1D
Entries 85
Mean −0.07175
Std Dev 0.9904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

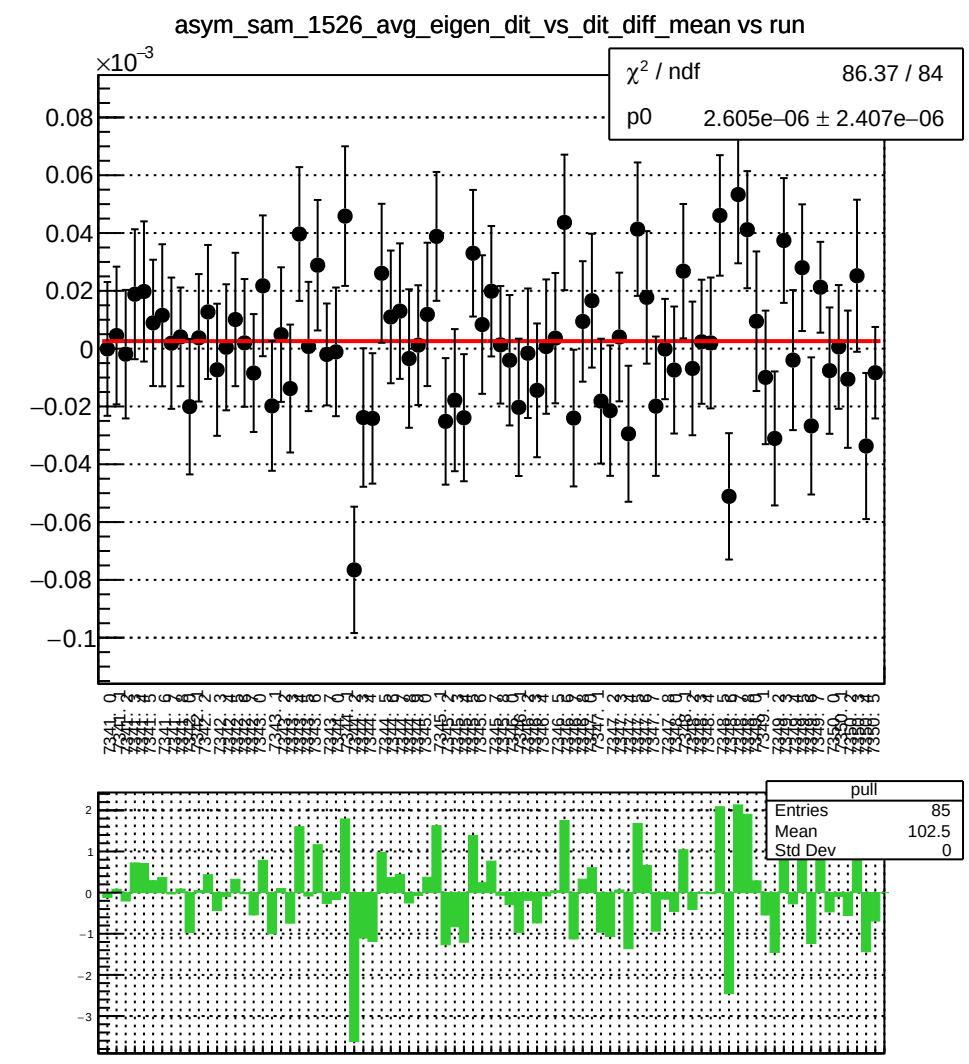

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.337e+06 / 84
p0 3.669e−12 ± 6.942e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

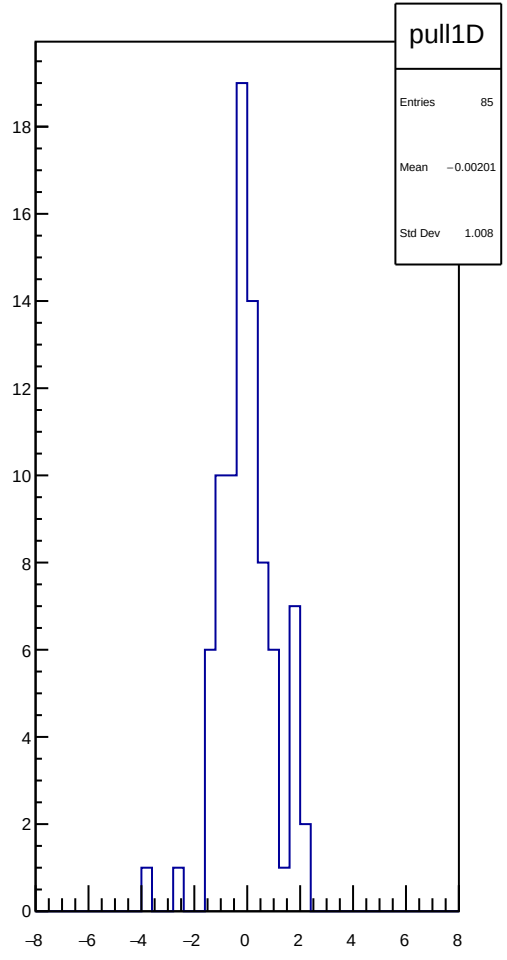

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78 / 84
p0 0.001827 ± 0.06764
pull
Entries 85
Mean −18.17
Std Dev 0
pull1D
Entries 85
Mean −0.02435
Std Dev 0.9577

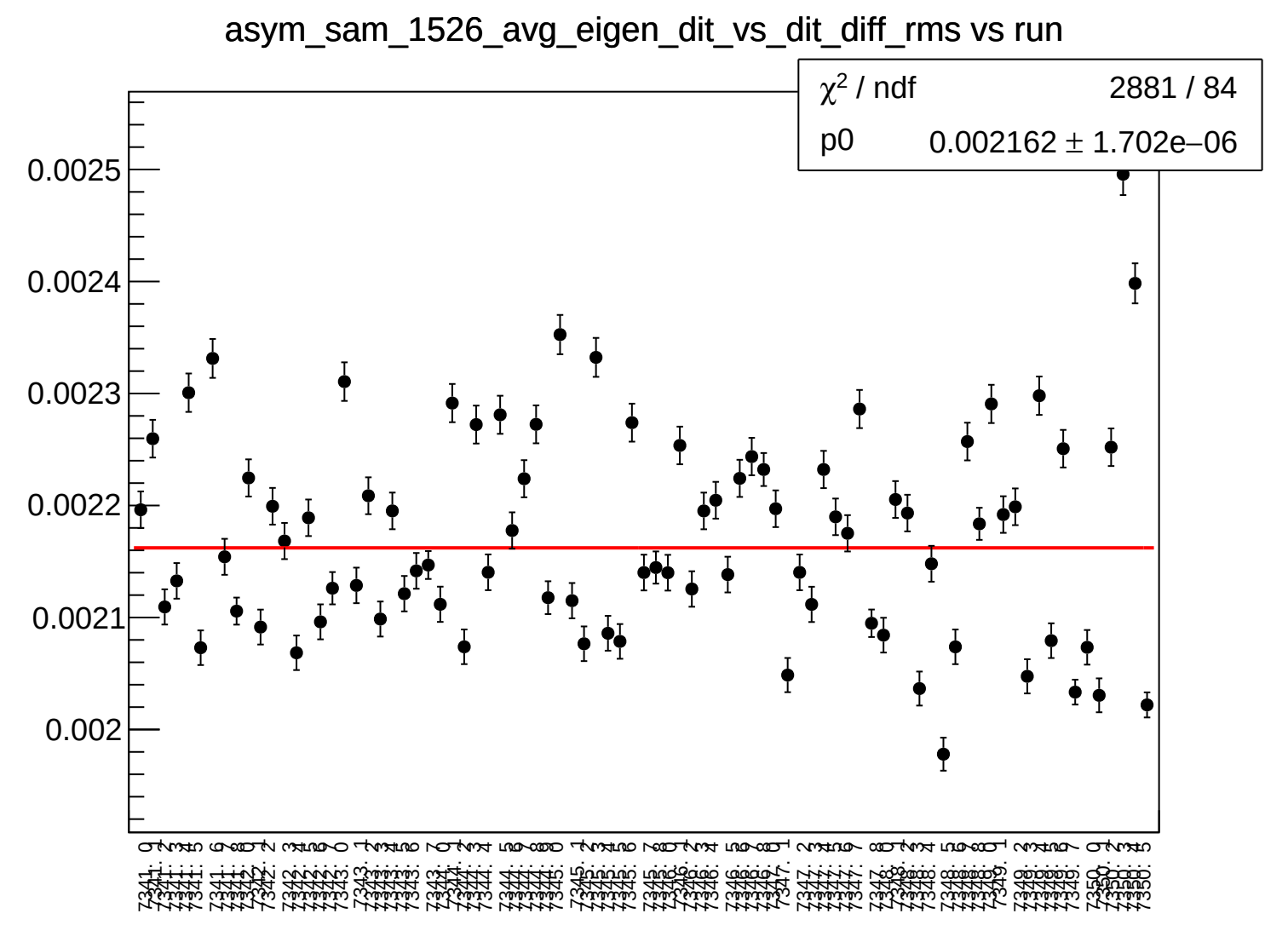

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.702e+04 / 84
p0 59.73 ± 0.04783
140
120
100
80
60

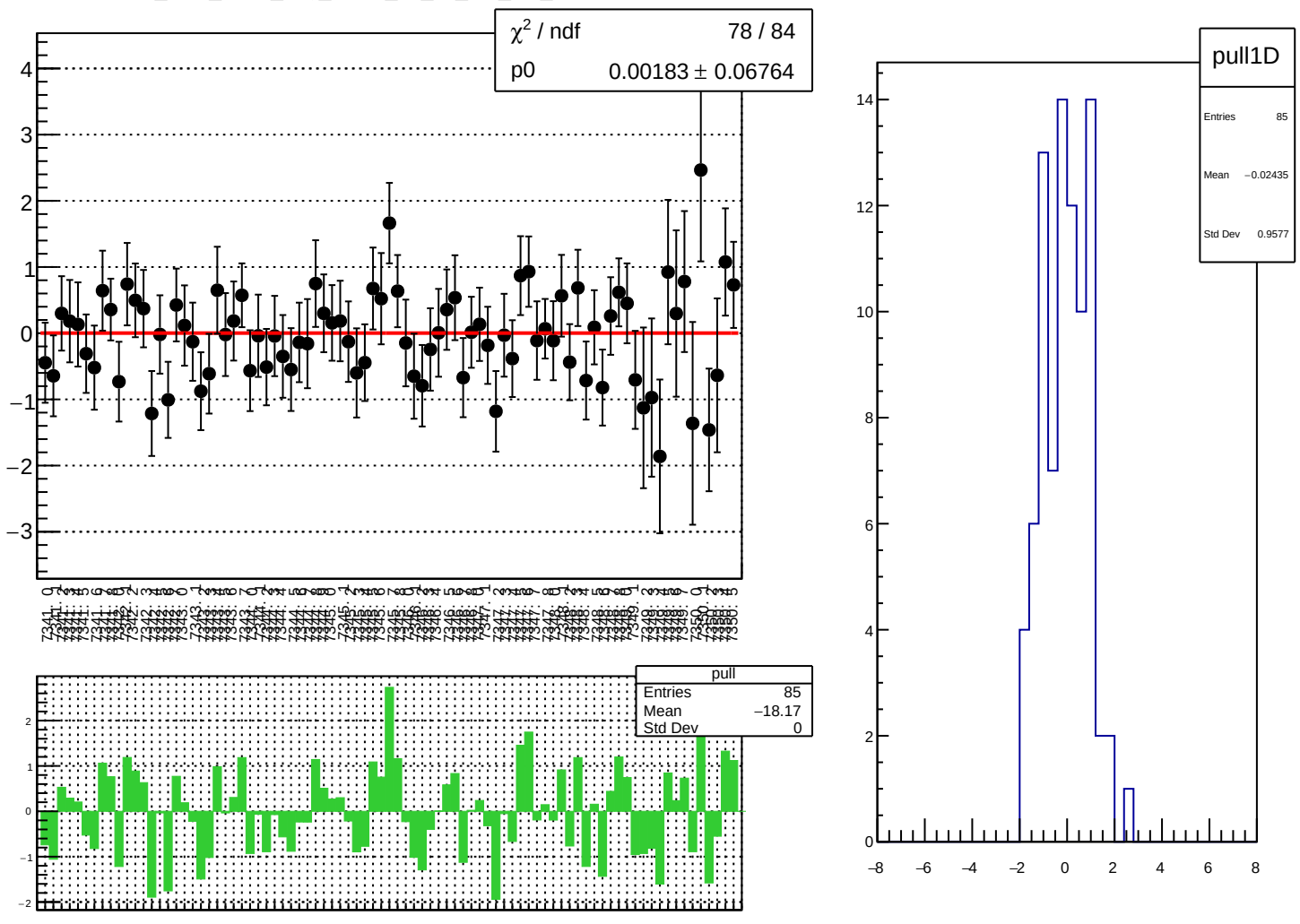

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78 / 84
p0 0.001827 ± 0.06764
pull
Entries 85
Mean −18.17
Std Dev 0
pull1D
Entries 85
Mean −0.02435
Std Dev 0.9577

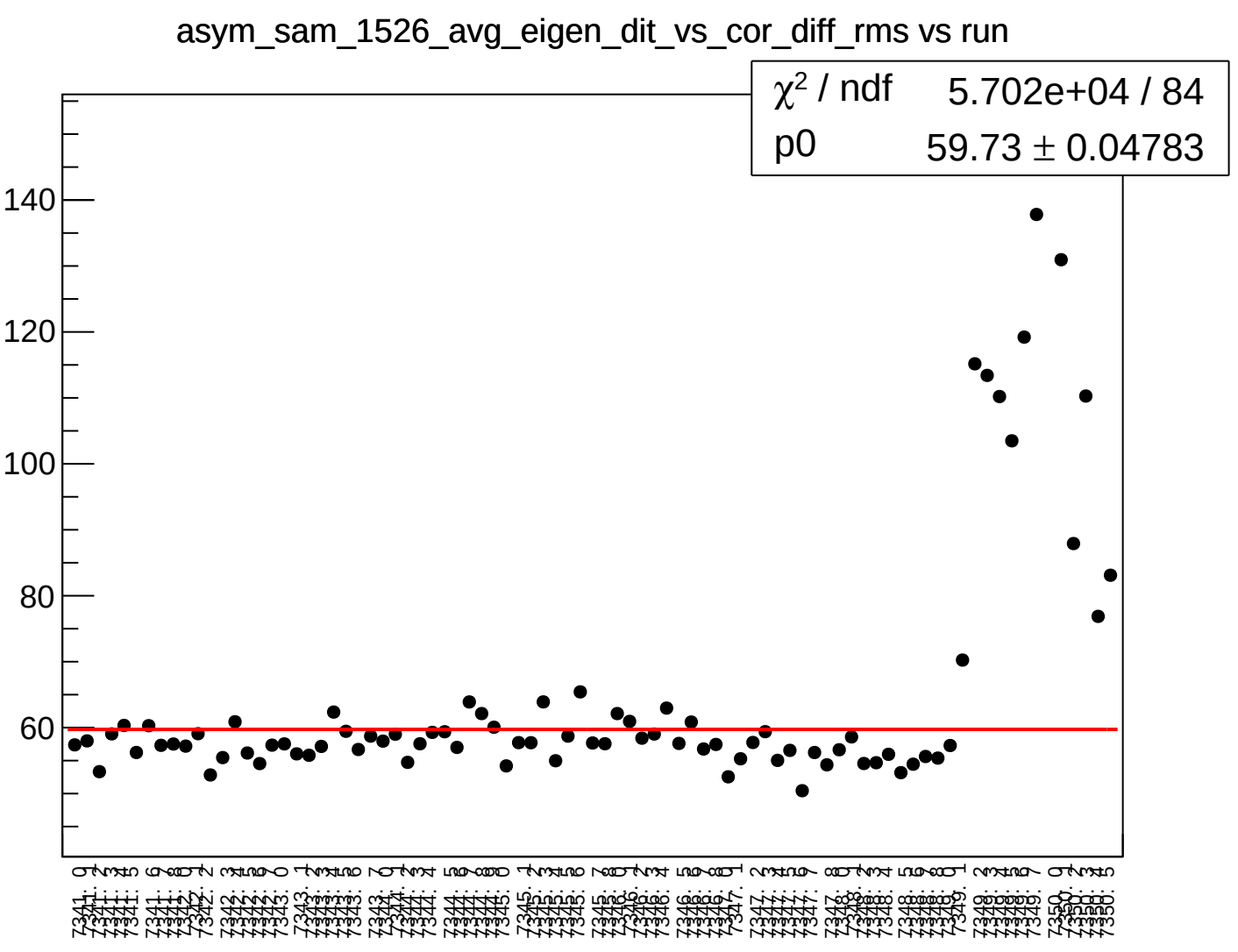

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.702e+04 / 84
p0 59.73 ± 0.04783
140
120
100
80
60

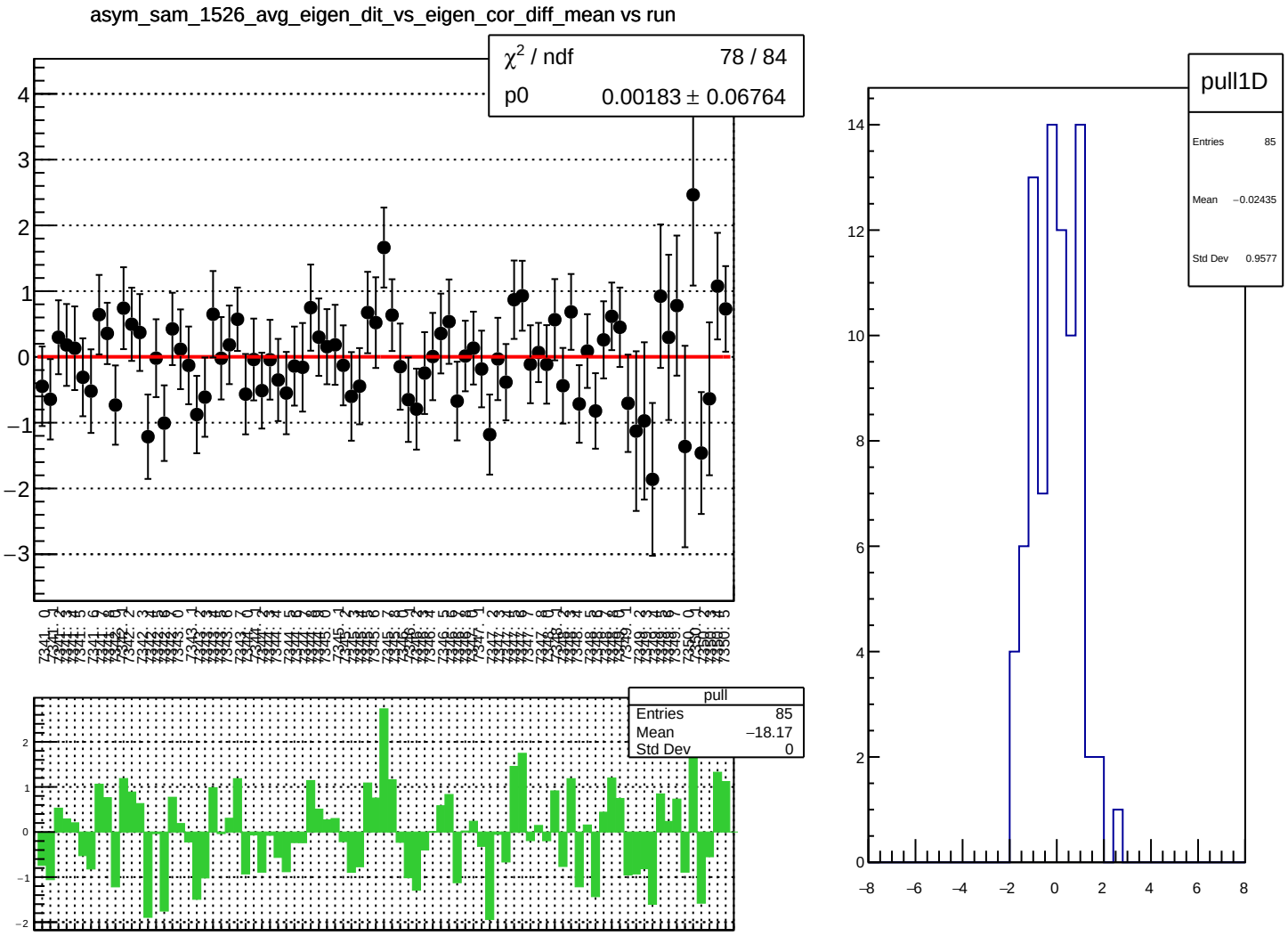

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.37 / 84
p0 2.605e−06 ± 2.407e−06
pull
Entries 85
Mean 102.5
Std Dev 0

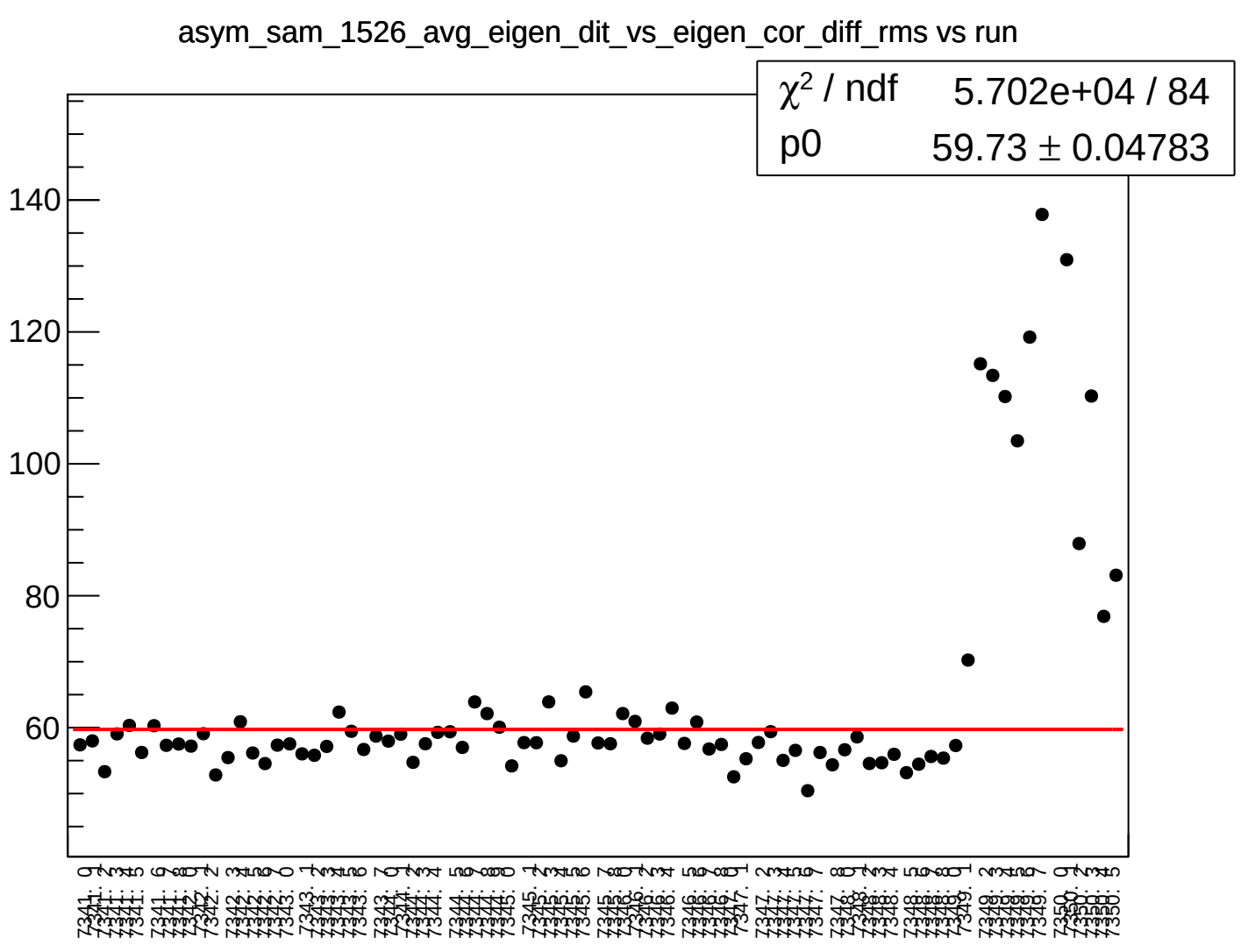

pull1D
Entries 85
Mean −0.00201
Std Dev 1.008

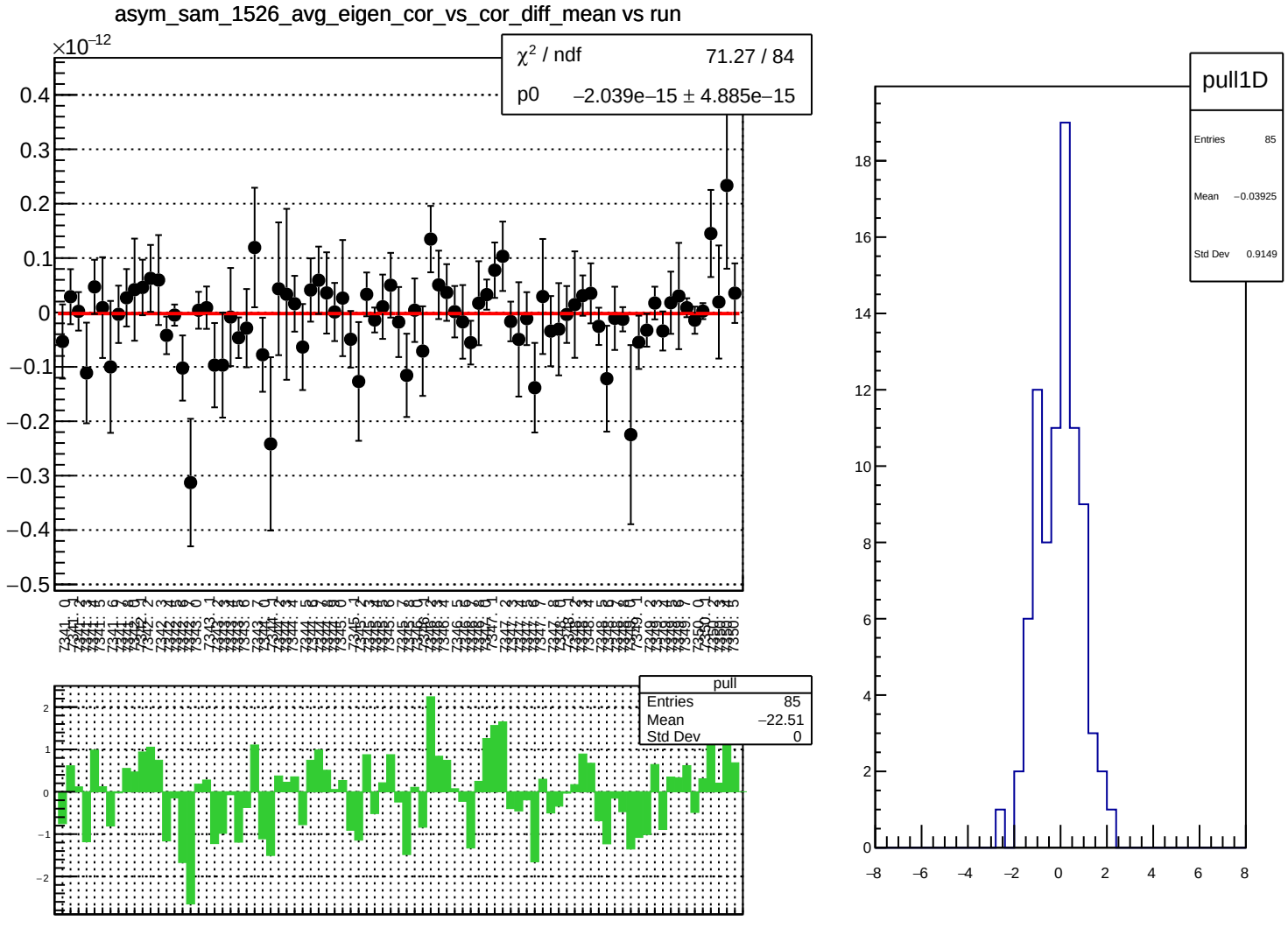

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2881 / 84
p0 0.002162 ± 1.702e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

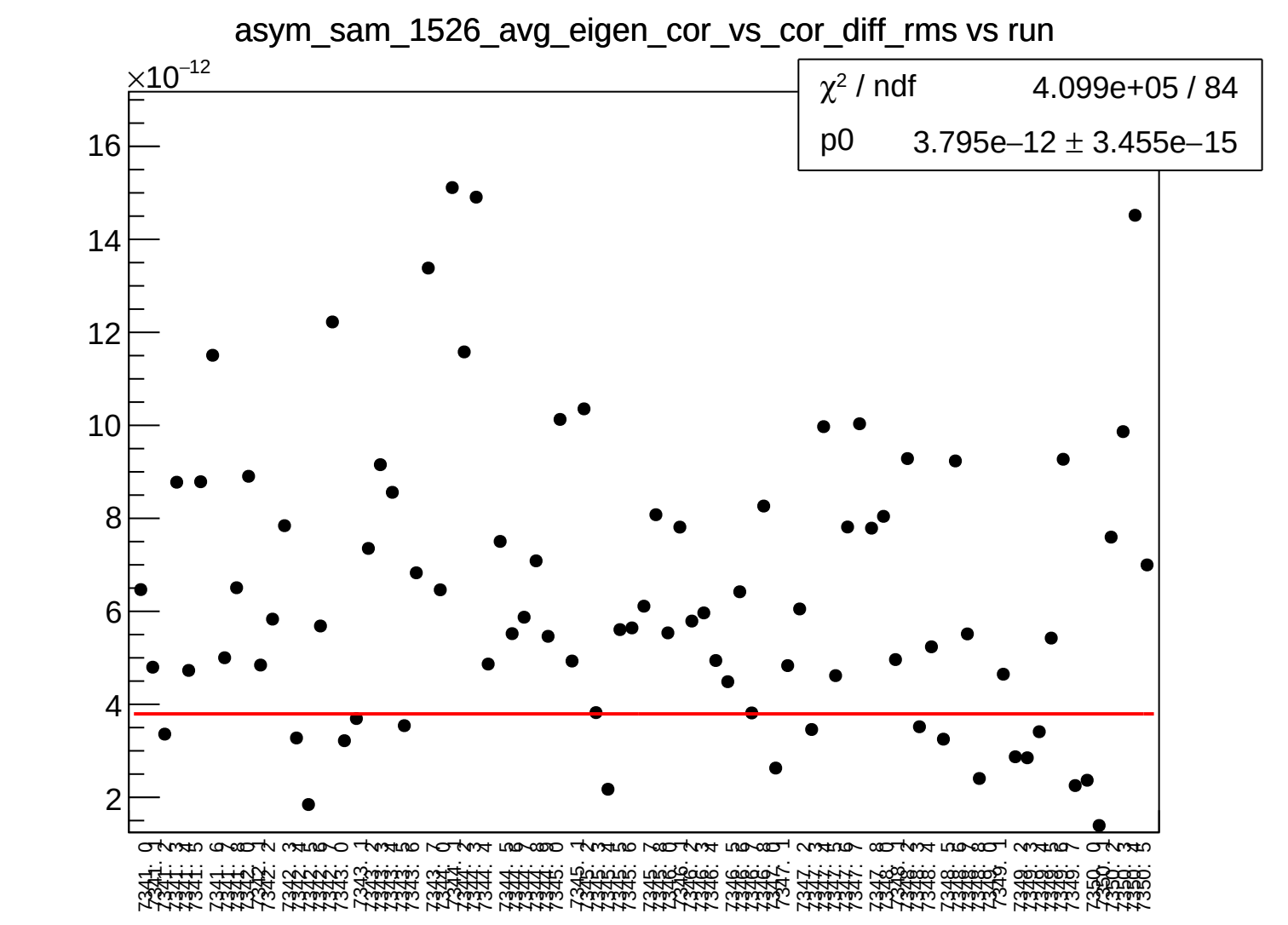

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78 / 84
p0 0.00183 ± 0.06764
pull
Entries 85
Mean −18.17
Std Dev 0
pull1D
Entries 85
Mean −0.02435
Std Dev 0.9577

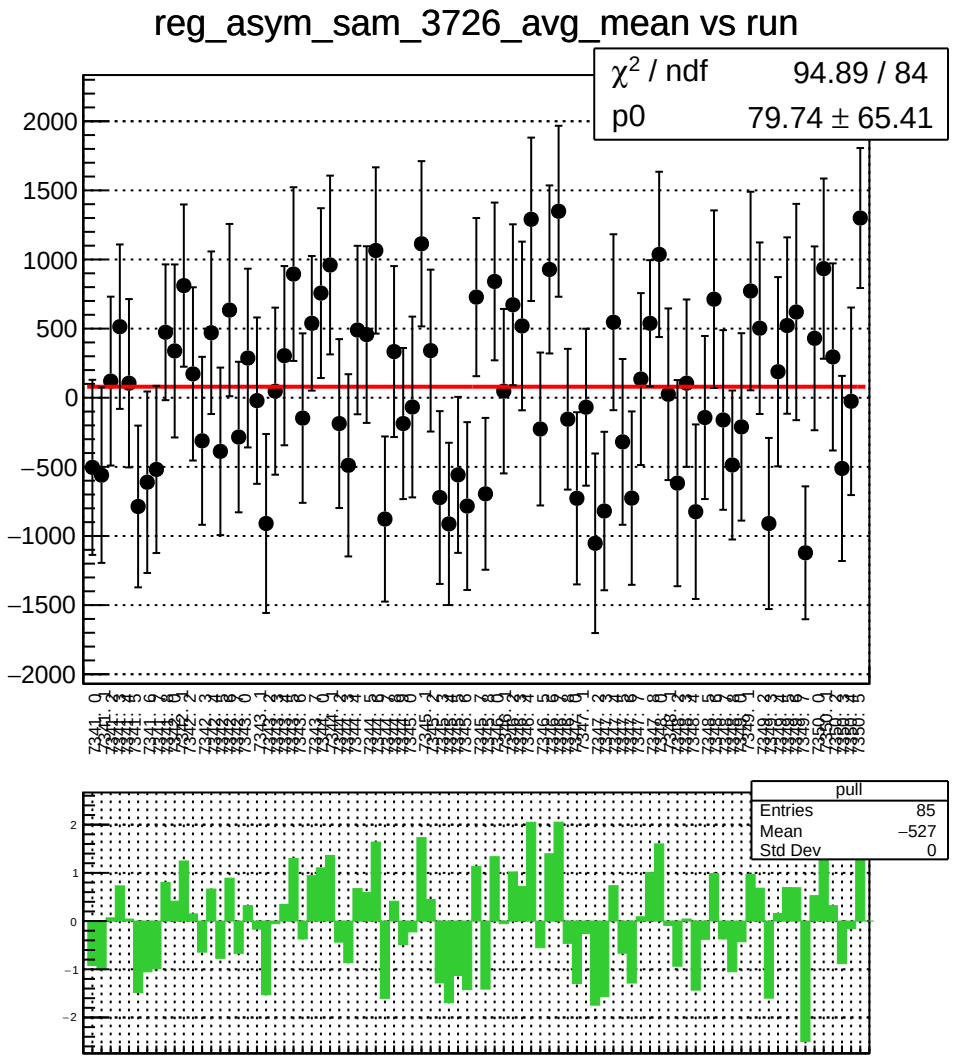

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.702e+04 / 84
p0 59.73 ± 0.04783
140
120
100
80
60

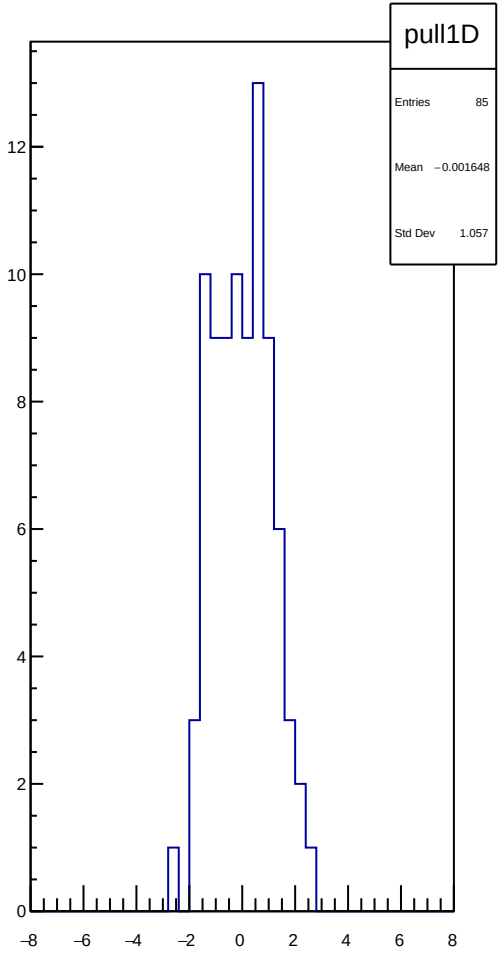

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78 / 84
p0 0.00183 ± 0.06764
pull
Entries 85
Mean −18.17
Std Dev 0
pull1D
Entries 85
Mean −0.02435
Std Dev 0.9577

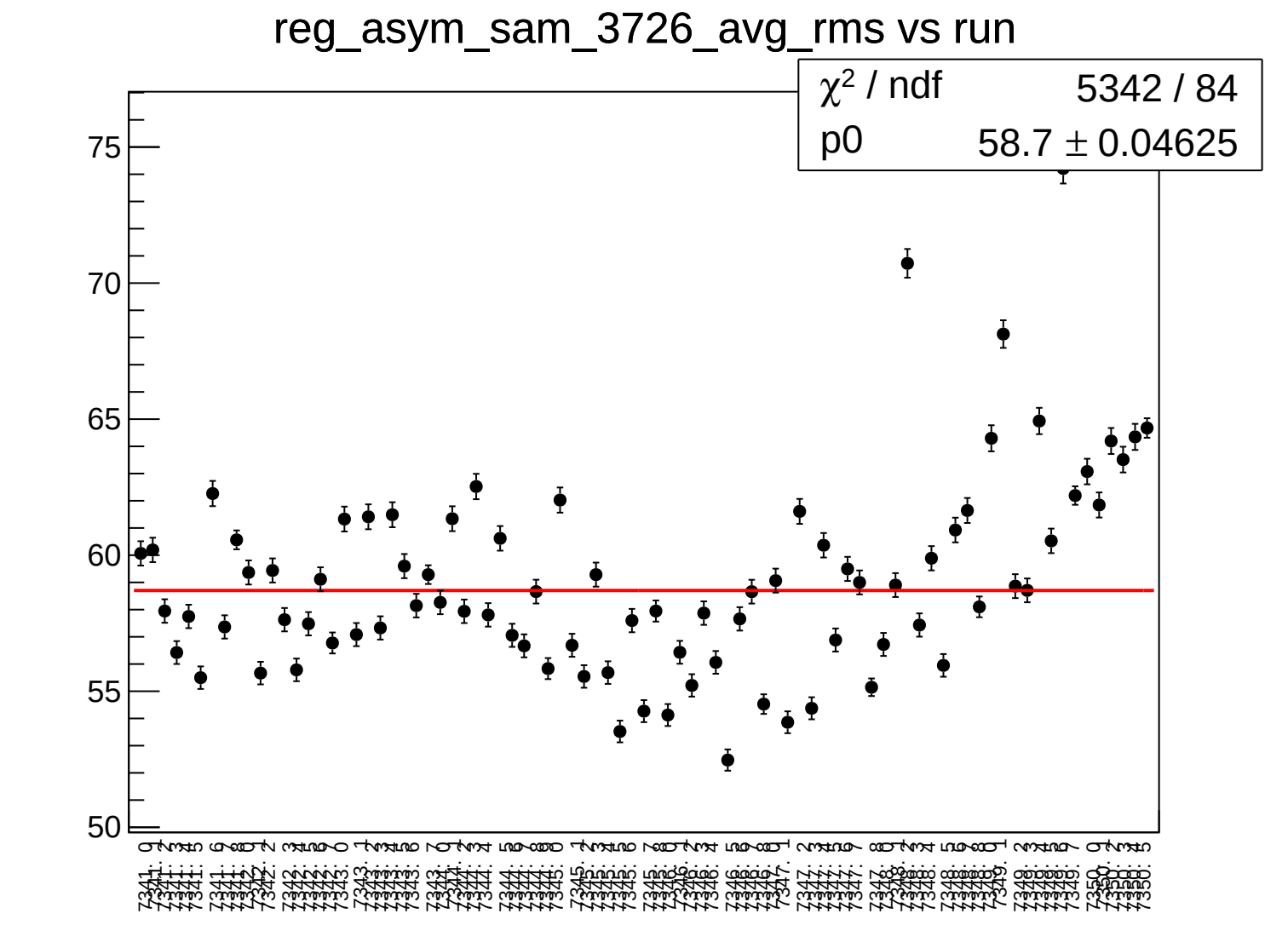

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.702e+04 / 84
p0 59.73 ± 0.04783
140
120
100
80
60

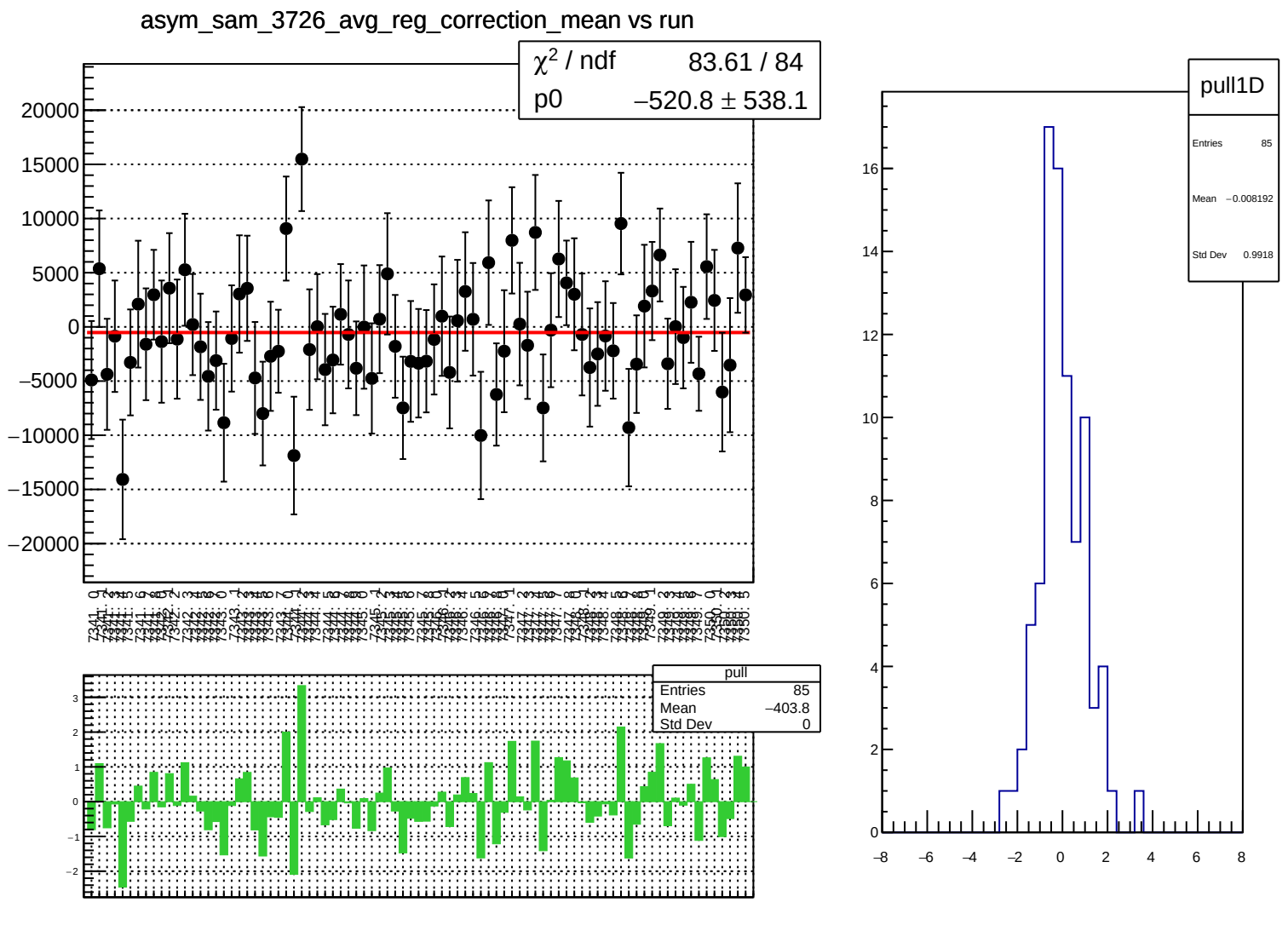

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.27 / 84
p0 −2.039e−15 ± 4.885e−15
pull
Entries 85
Mean −22.51
Std Dev 0
pull1D
Entries 85
Mean −0.03925
Std Dev 0.9149

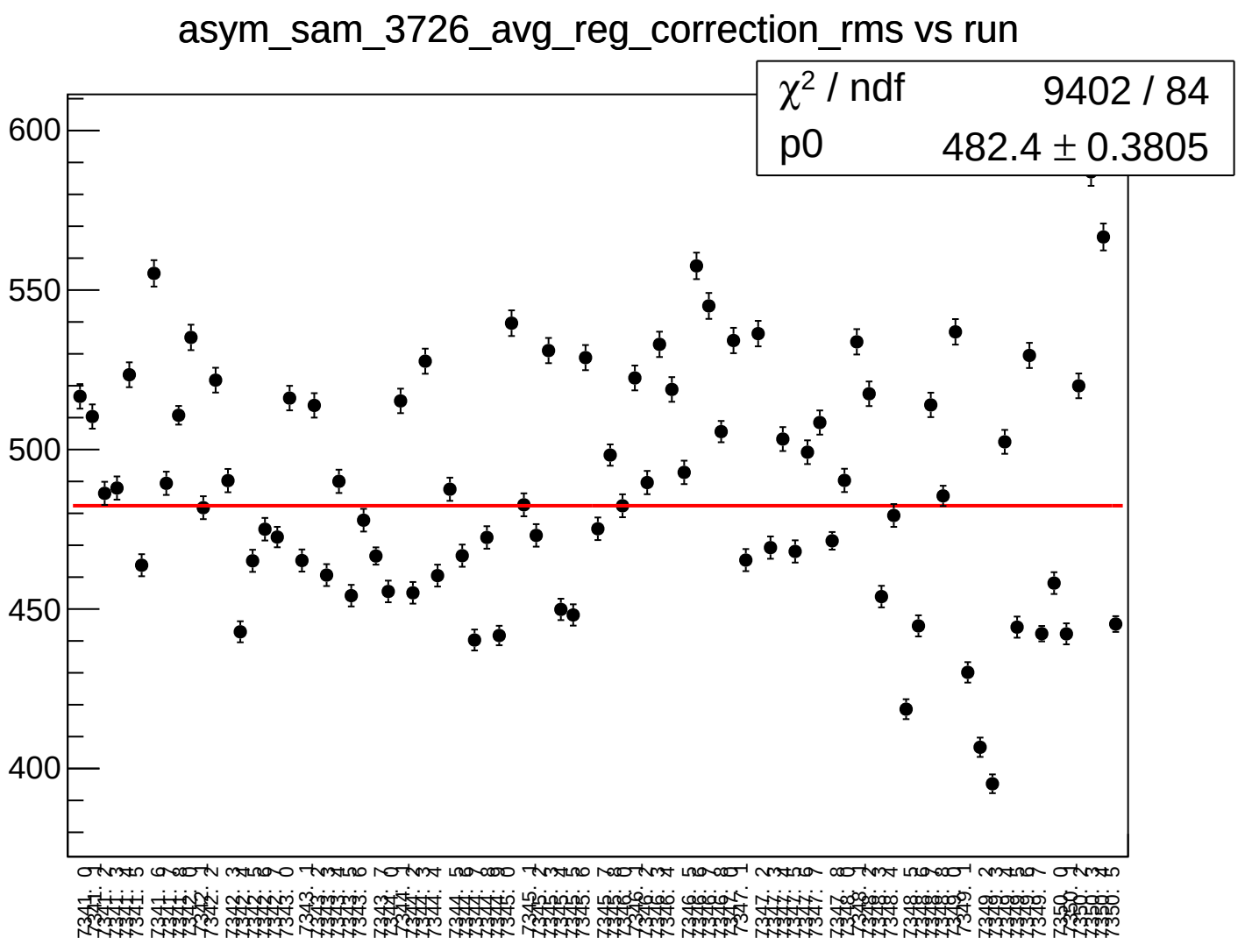

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.099e+05 / 84
p0 3.795e−12 ± 3.455e−15
16
14
12
10
8
6
4
2

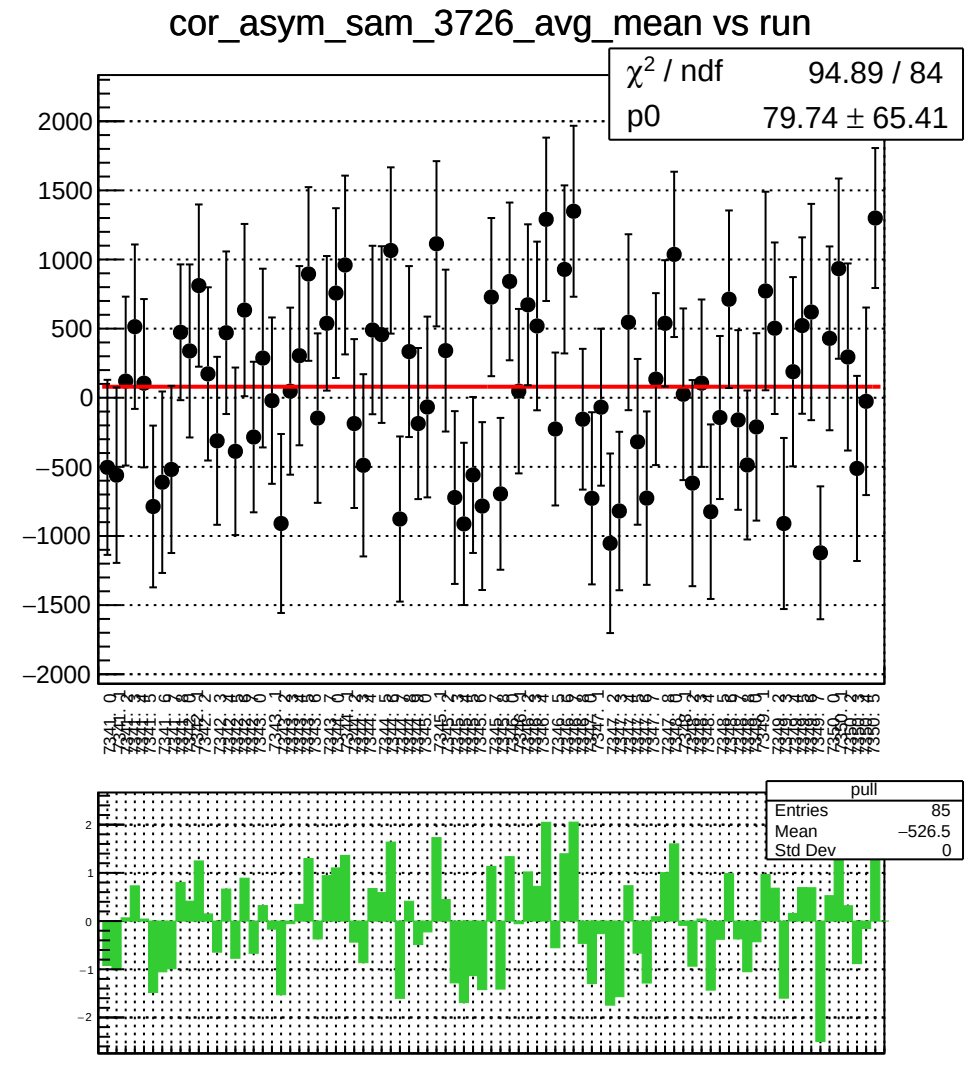

reg_asym_sam_3726_avg_mean vs run
χ^2 / ndf 94.89 / 84
p0 79.74 ± 65.41
pull
Entries 85
Mean −527
Std Dev 0

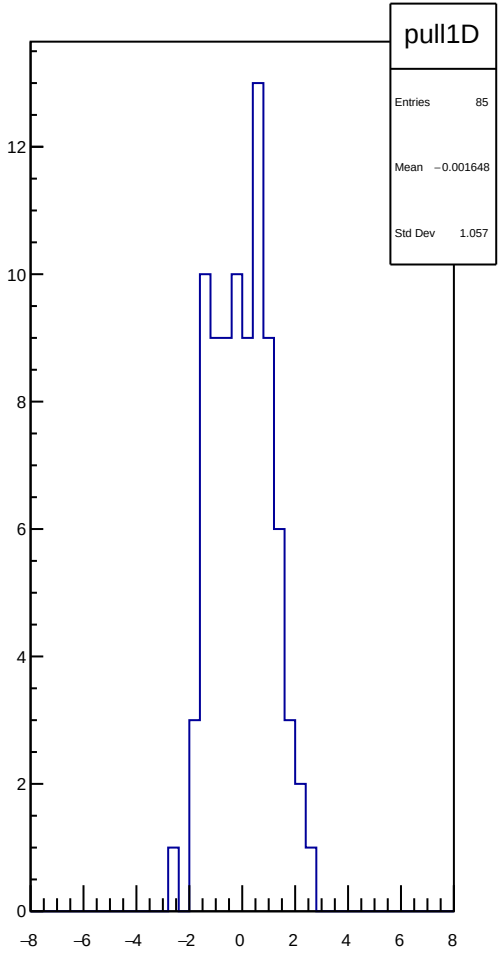

pull1D
Entries 85
Mean −0.001648
Std Dev 1.057

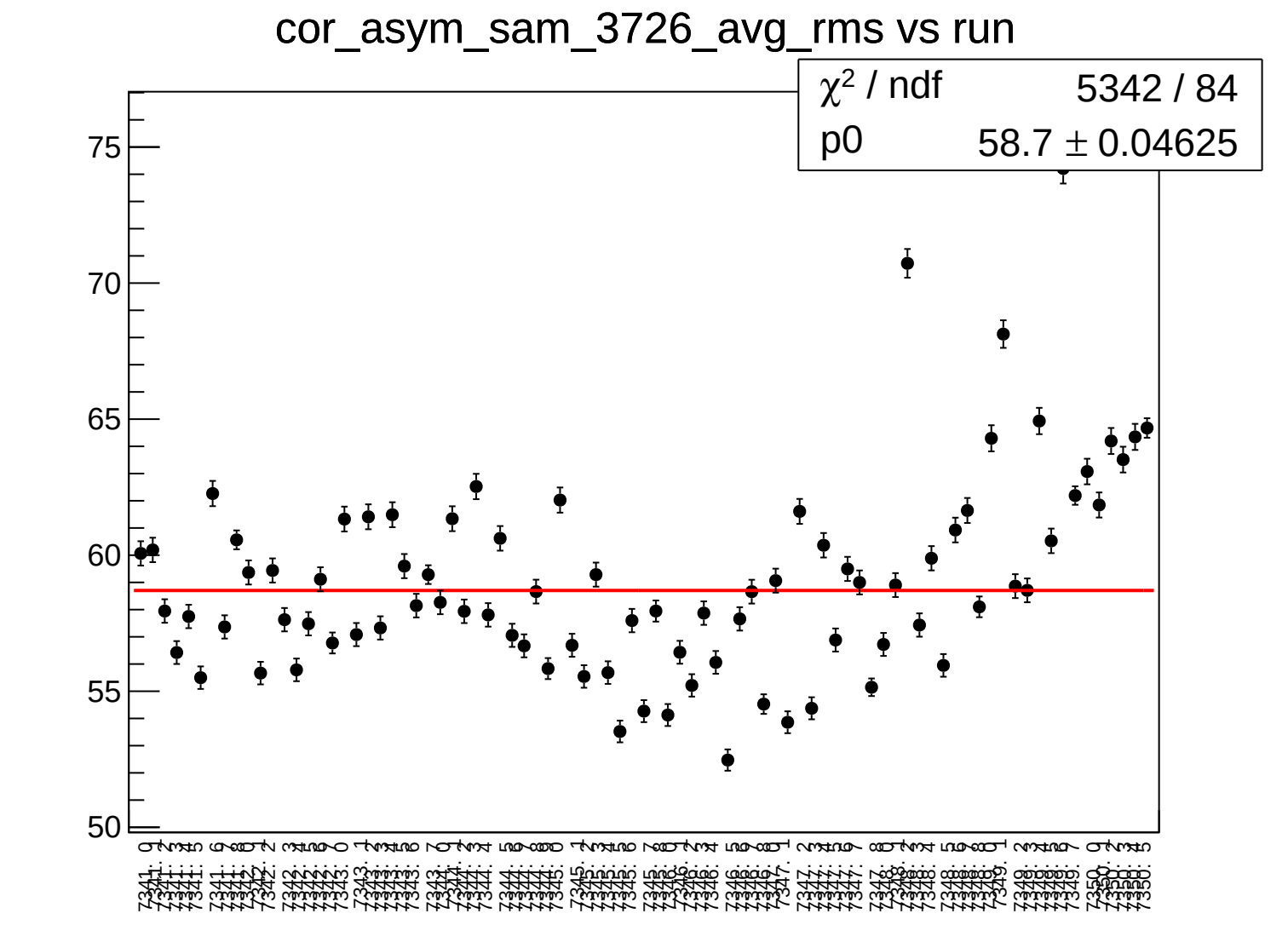

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 5342 / 84
p0 58.7 ± 0.04625
75
70
65
60
55
50

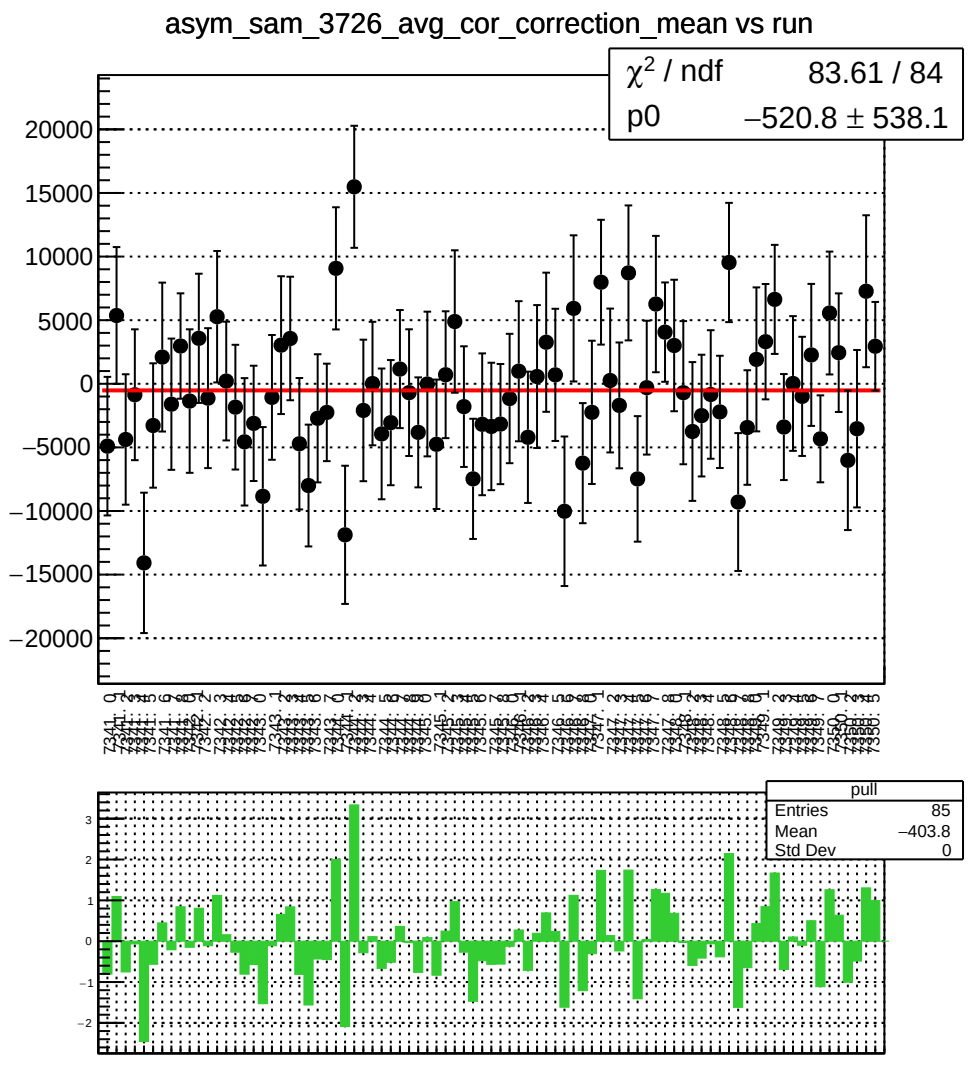

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 83.61 / 84
p0 −520.8 ± 538.1
pull
Entries 85
Mean −403.8
Std Dev 0
pull1D
Entries 85
Mean −0.008192
Std Dev 0.9918

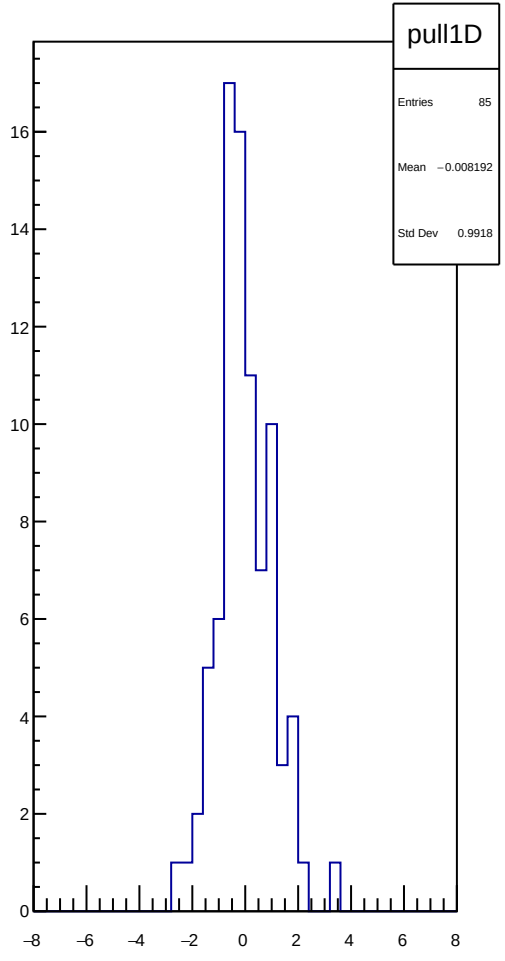

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 9402 / 84
p0 482.4 ± 0.3805
600
550
500
450
400

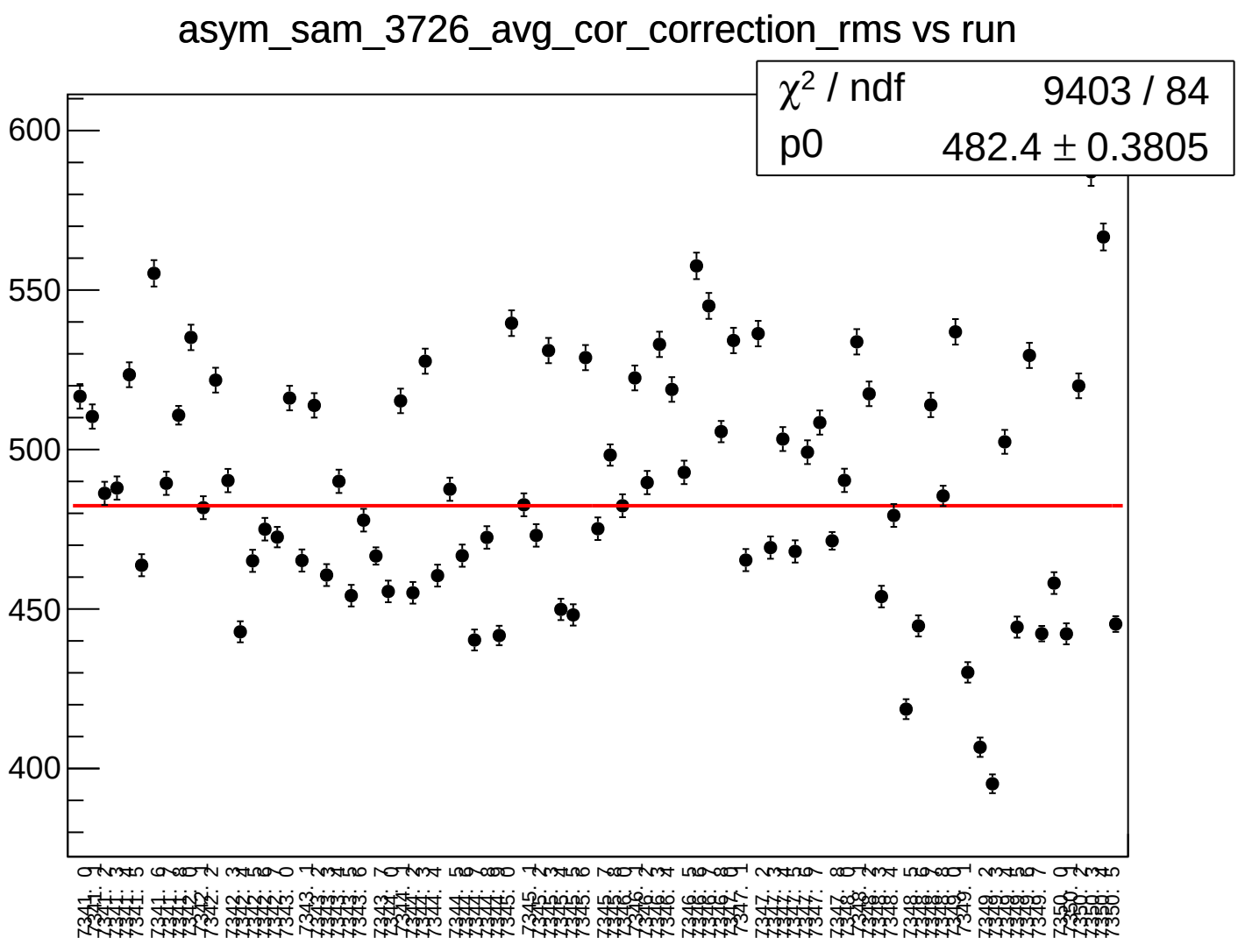

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 94.89 / 84
p0 79.74 ± 65.41
pull
Entries 85
Mean −526.5
Std Dev 0

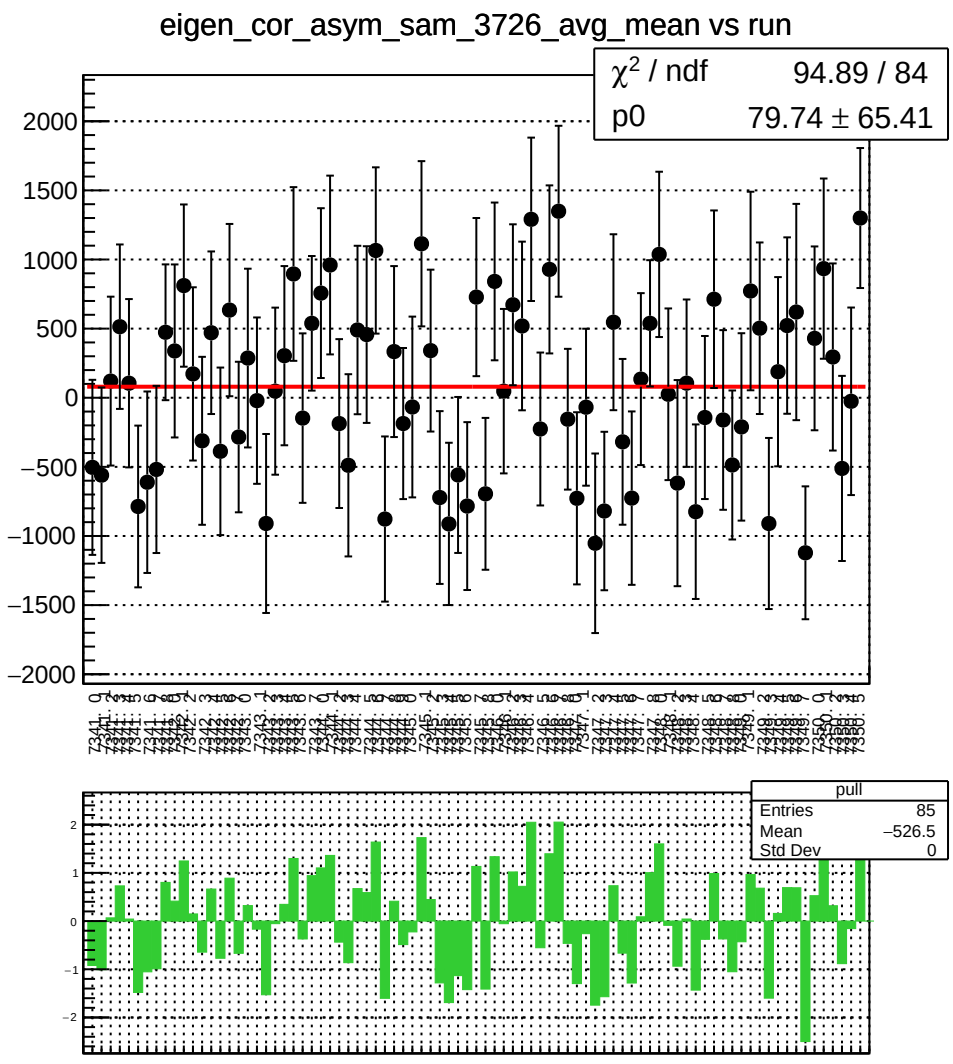

pull1D
Entries 85
Mean −0.001648
Std Dev 1.057

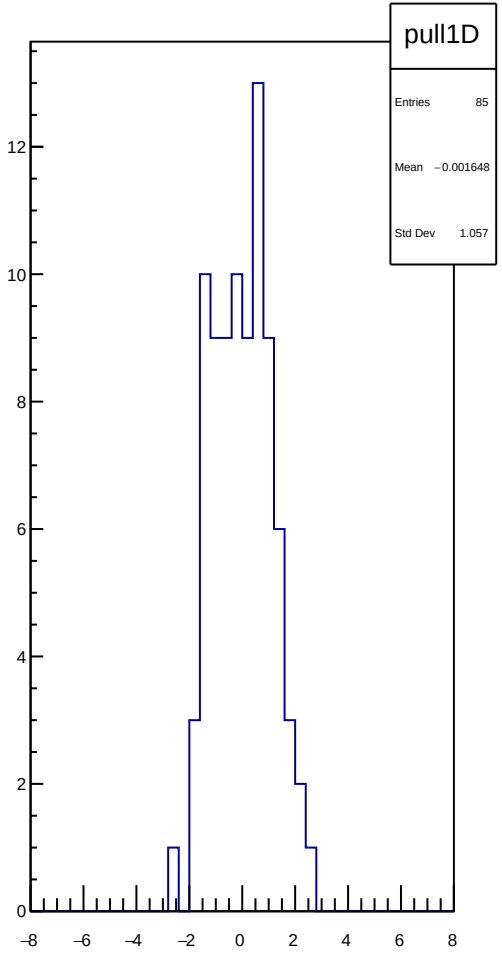

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 5342 / 84
p0 58.7 ± 0.04625
75
70
65
60
55
50

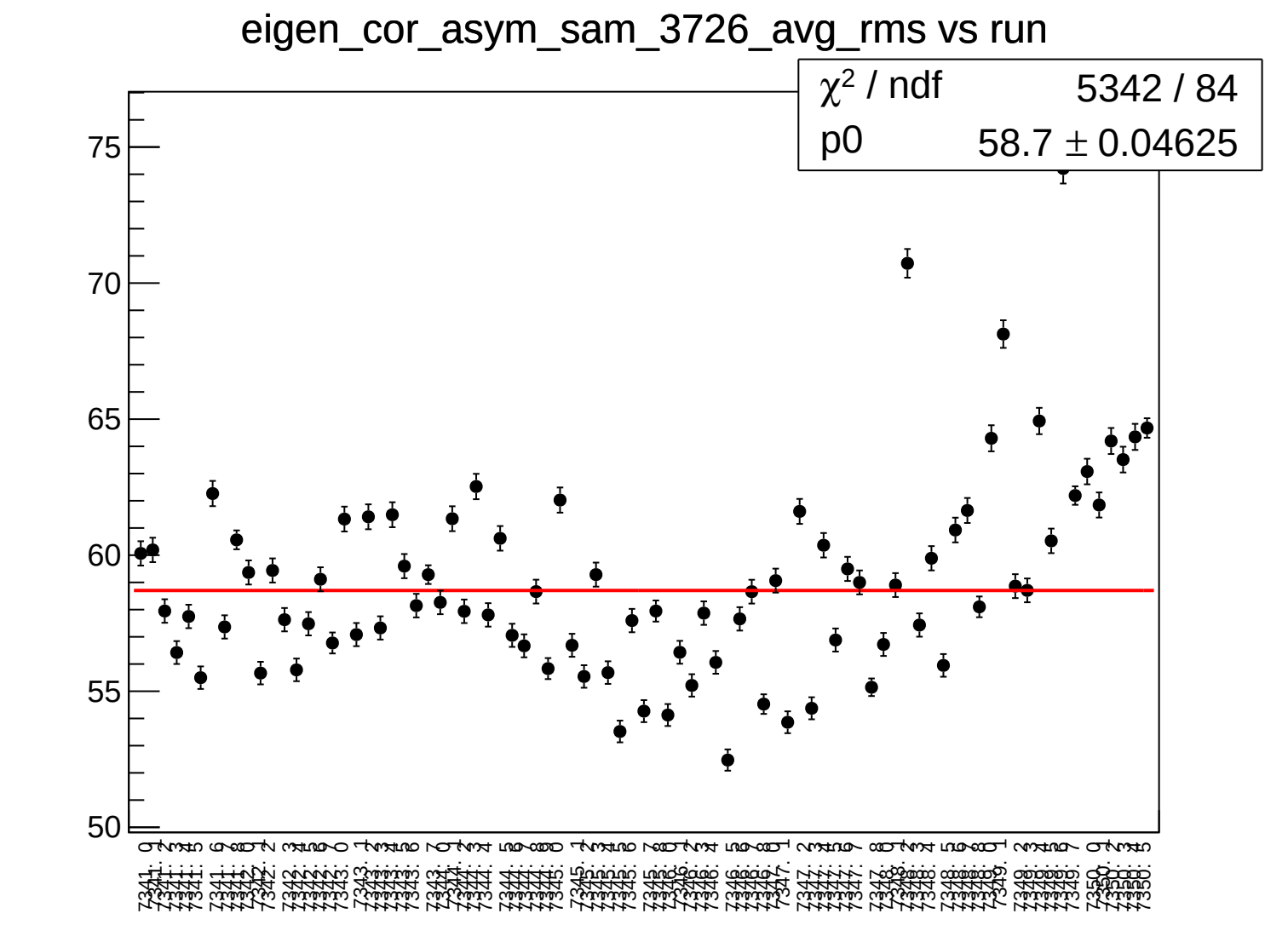

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 83.61 / 84
p0 −520.8 ± 538.1
pull
Entries 85
Mean −403.8
Std Dev 0

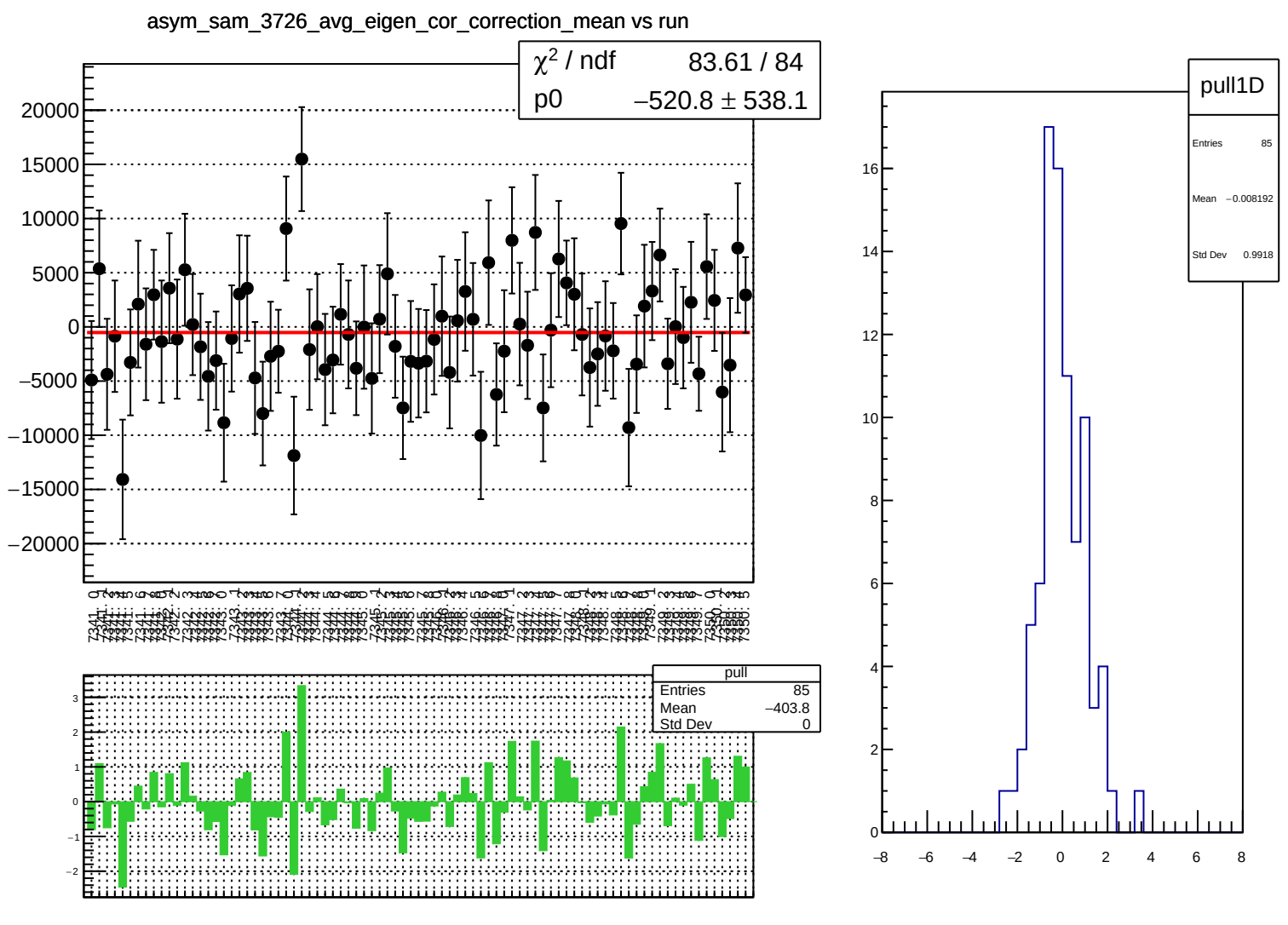

pull1D
Entries 85
Mean −0.008192
Std Dev 0.9918

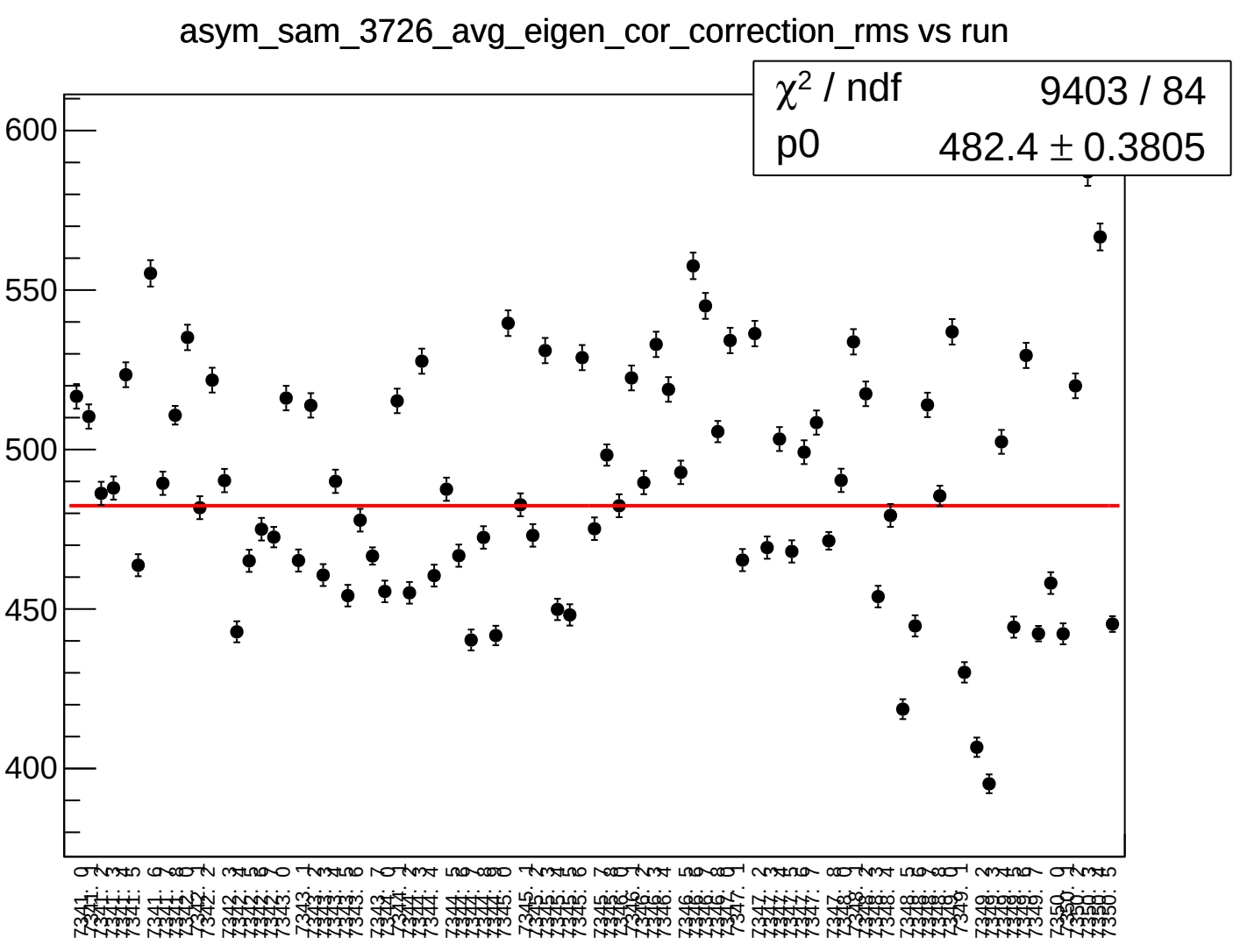

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 9403 / 84
p0 482.4 ± 0.3805
600
550
500
450
400

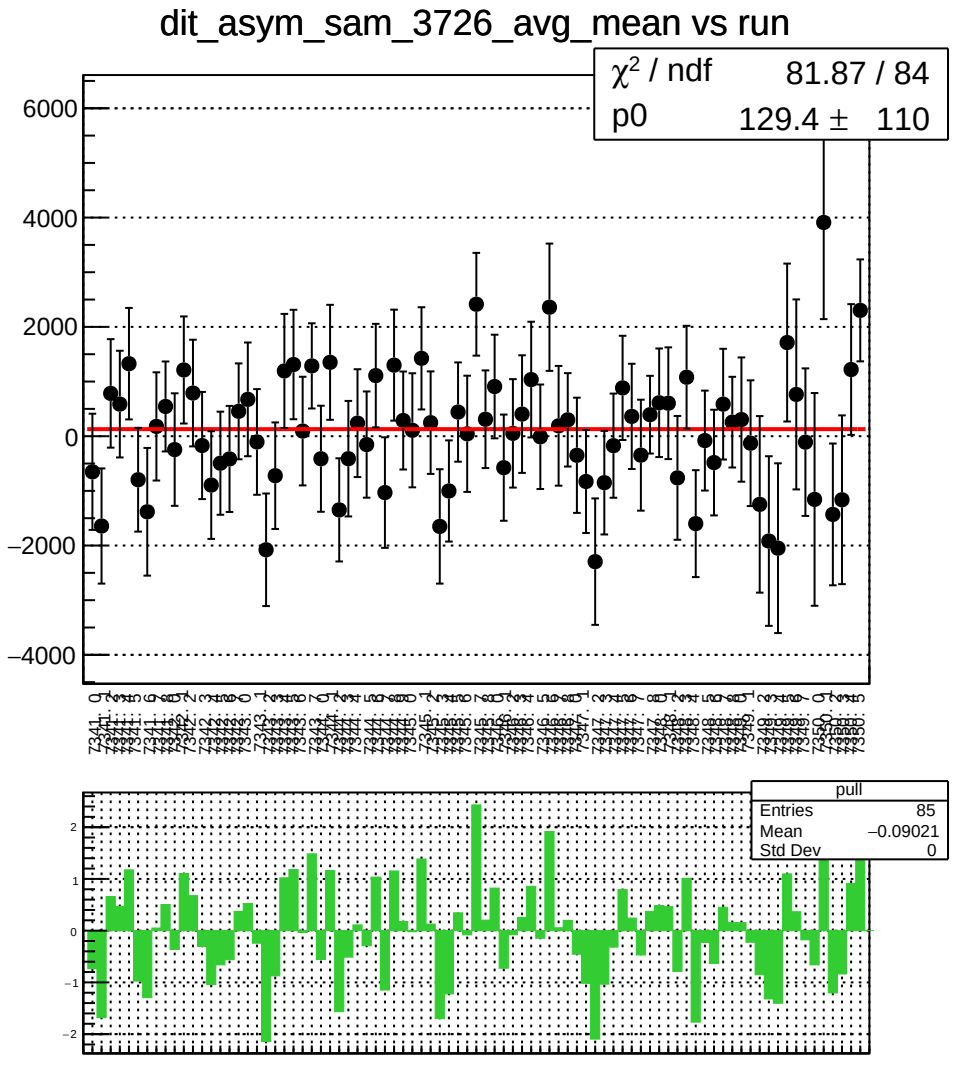

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 94.89 / 84
p0 79.74 ± 65.41
pull
Entries 85
Mean −526.5
Std Dev 0

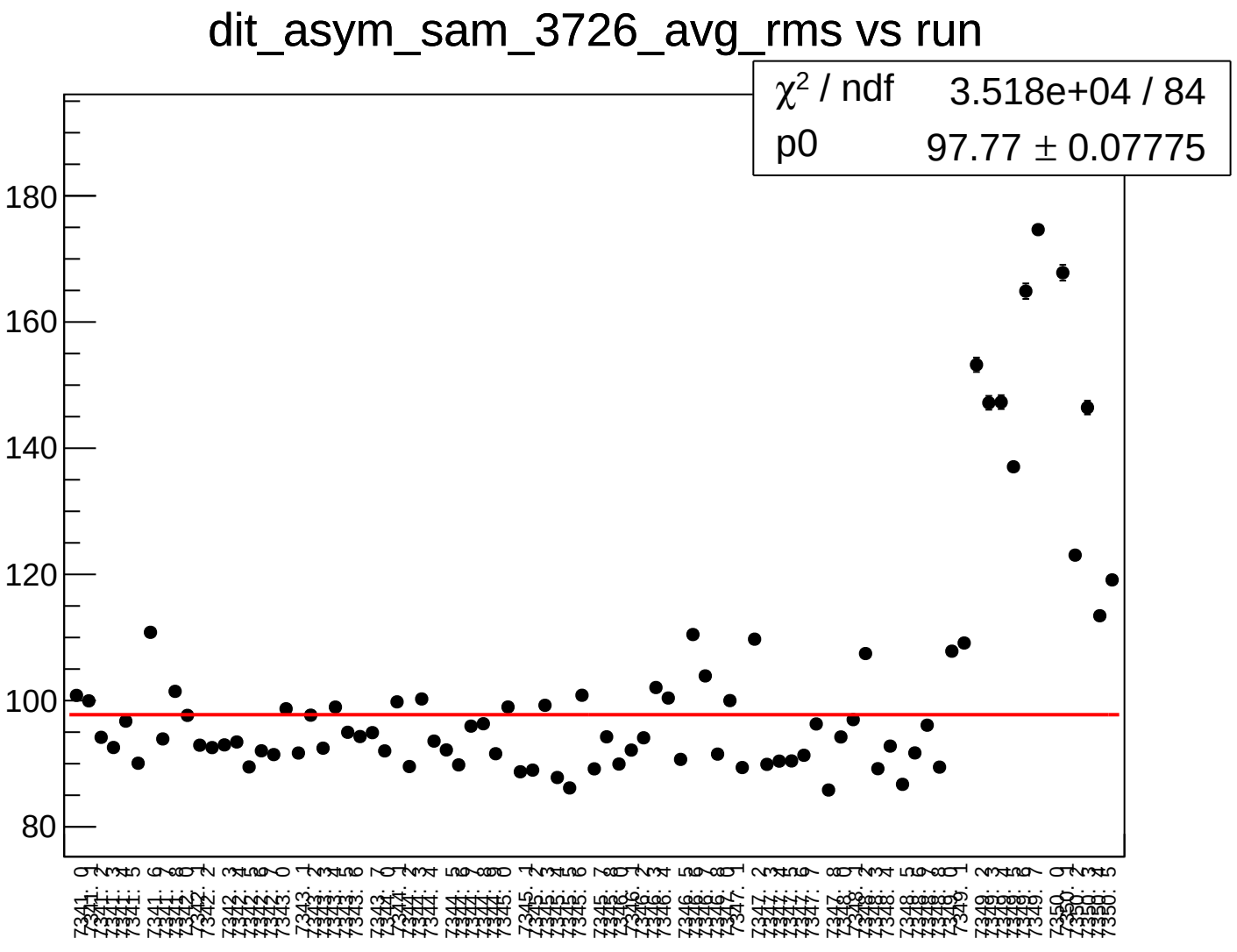

pull1D
Entries 85
Mean −0.001648
Std Dev 1.057

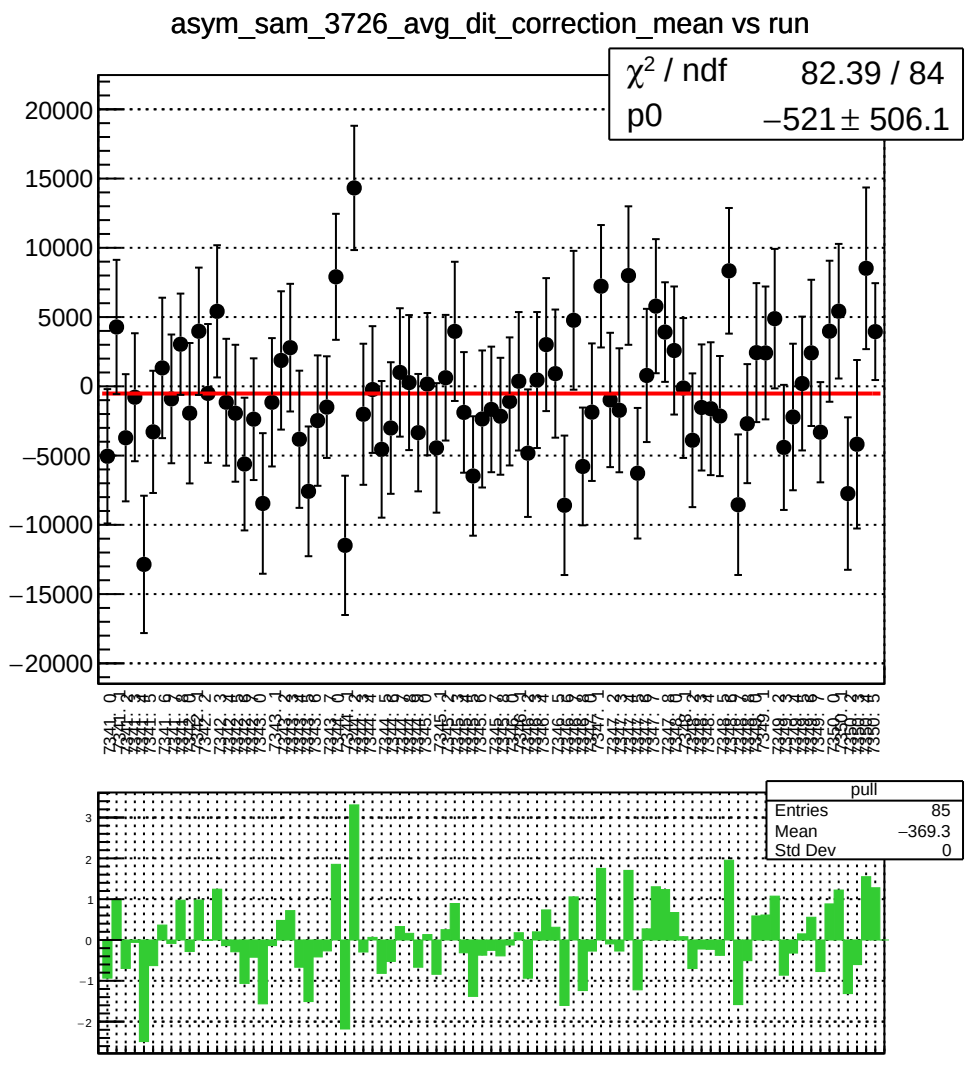

eigen_cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 5342 / 84
p0 58.7 ± 0.04625
75
70
65
60
55
50

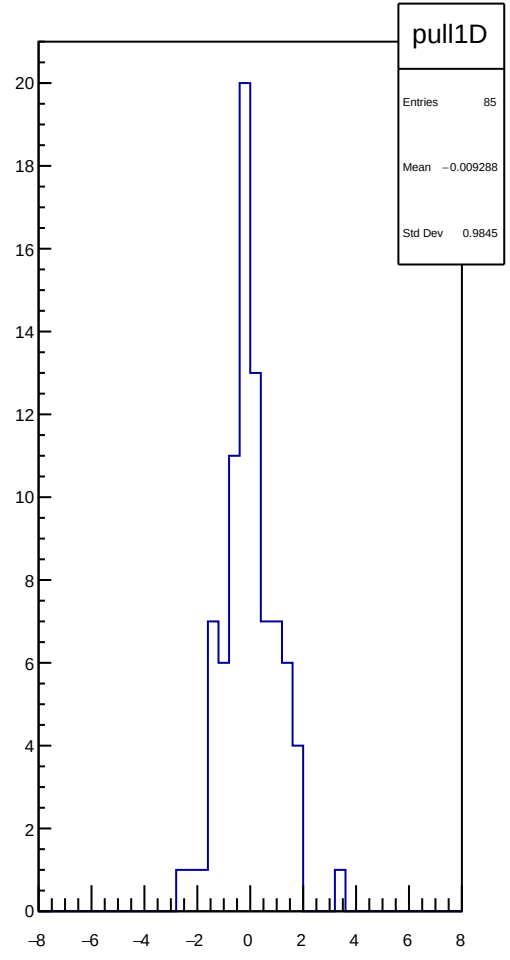

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.61 / 84
p0 −520.8 ± 538.1
pull
Entries 85
Mean −403.8
Std Dev 0
pull1D
Entries 85
Mean −0.008192
Std Dev 0.9918

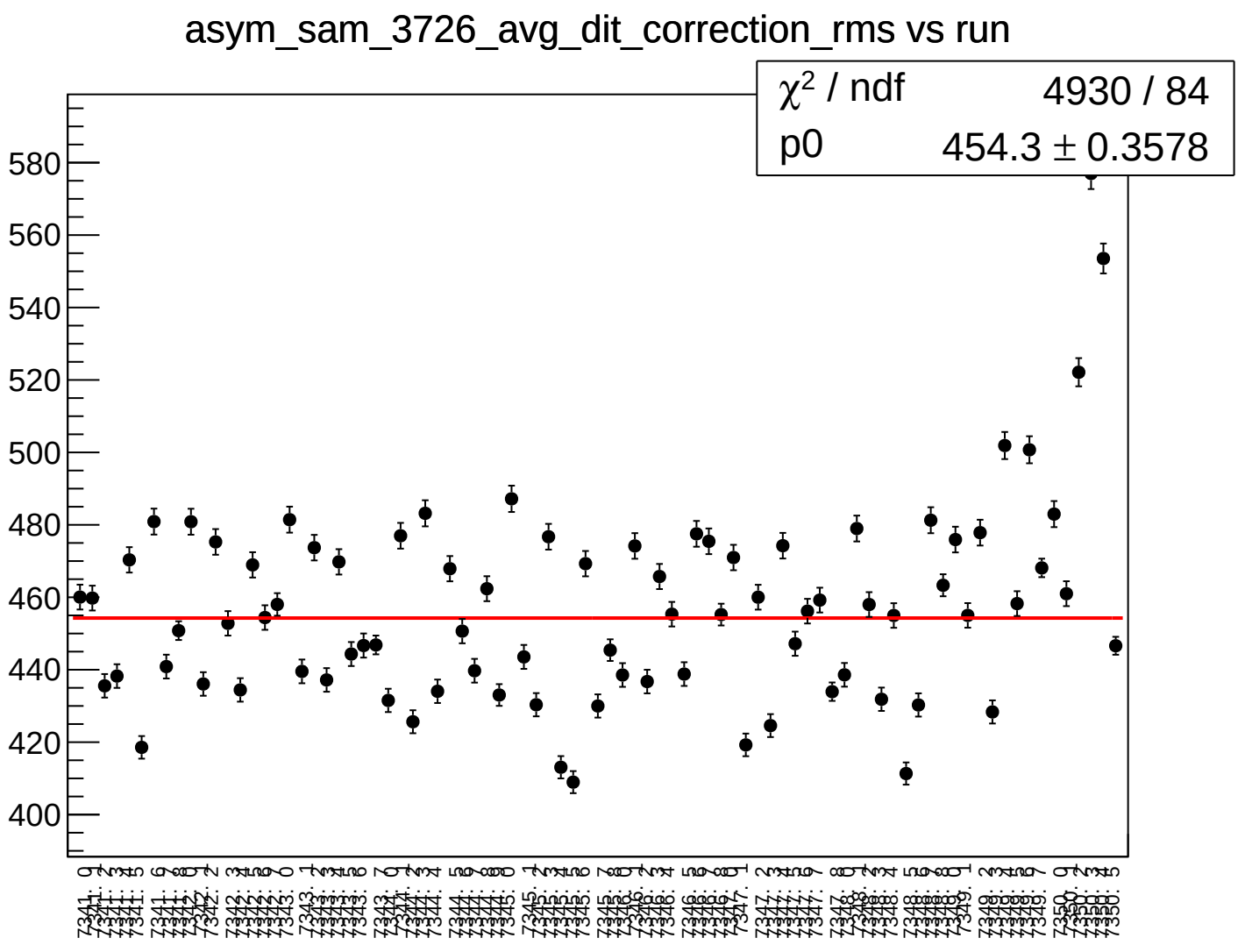

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 9403 / 84
p0 482.4 ± 0.3805
600
550
500
450
400

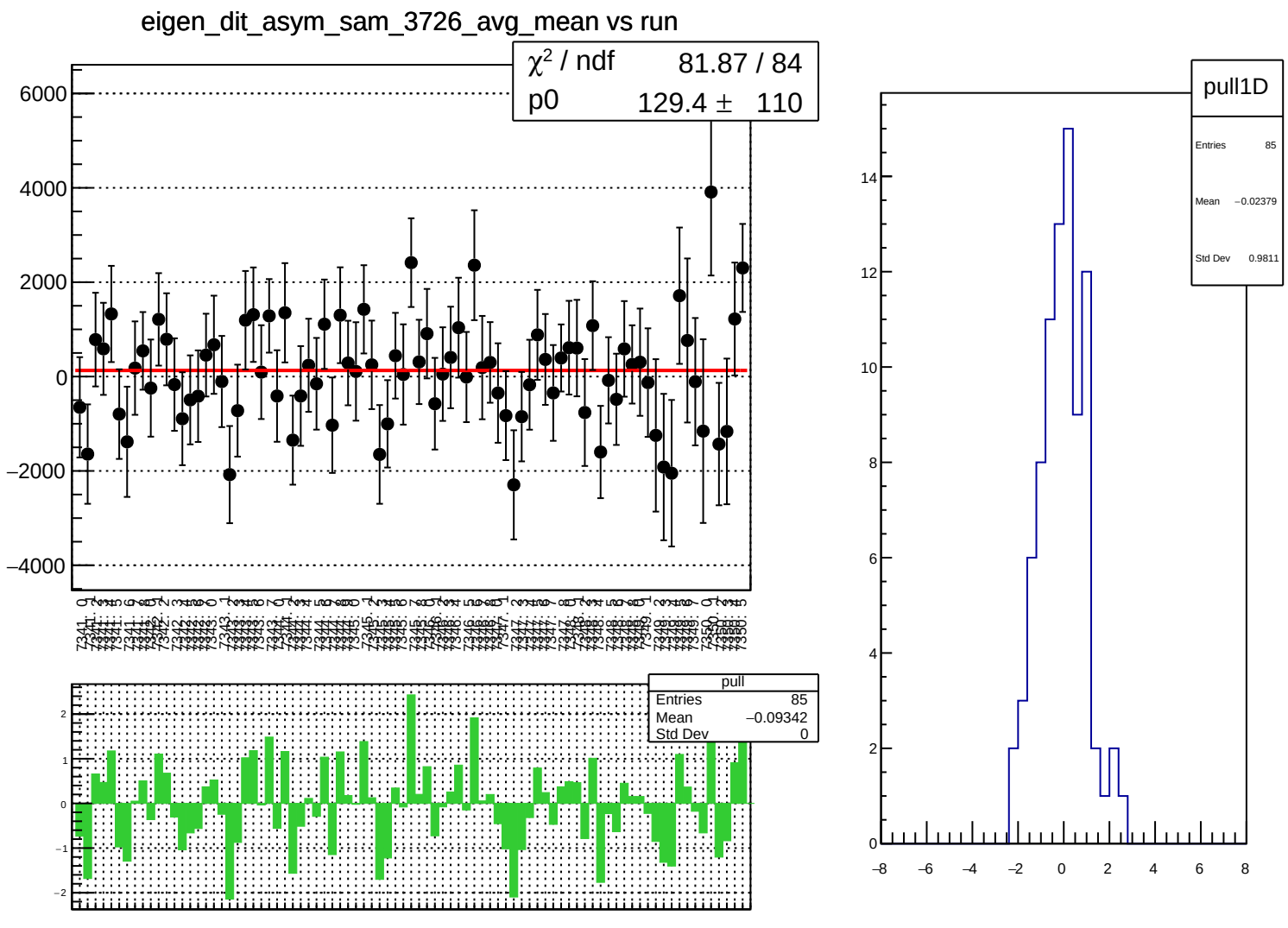

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 81.87 / 84
p0 129.4 ± 110
pull
Entries 85
Mean −0.09021
Std Dev 0
pull1D
Entries 85
Mean −0.02379
Std Dev 0.9811

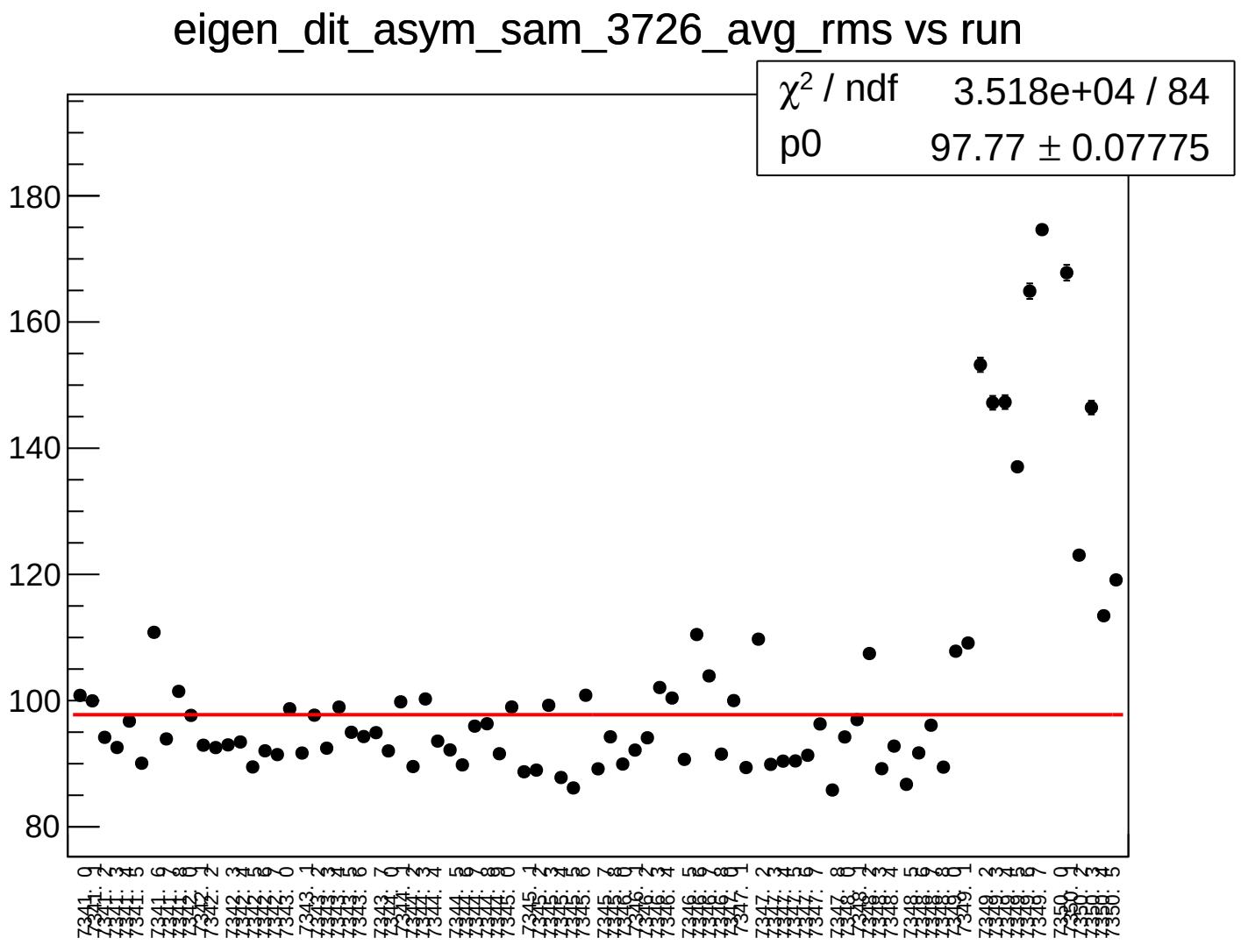

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.518e+04 / 84
p0 97.77 ± 0.07775
180
160
140
120
100
80

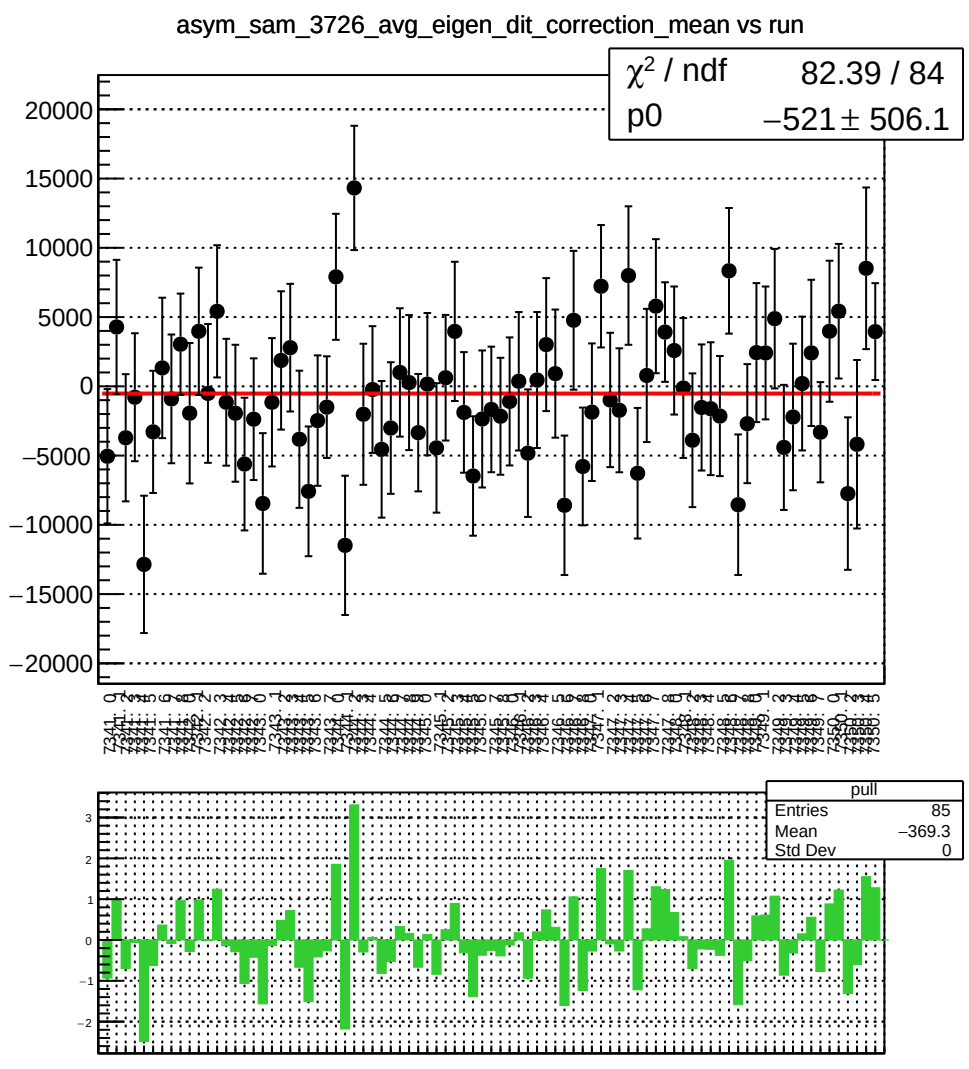

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 82.39 / 84
p0 −521 ± 506.1
pull
Entries 85
Mean −369.3
Std Dev 0

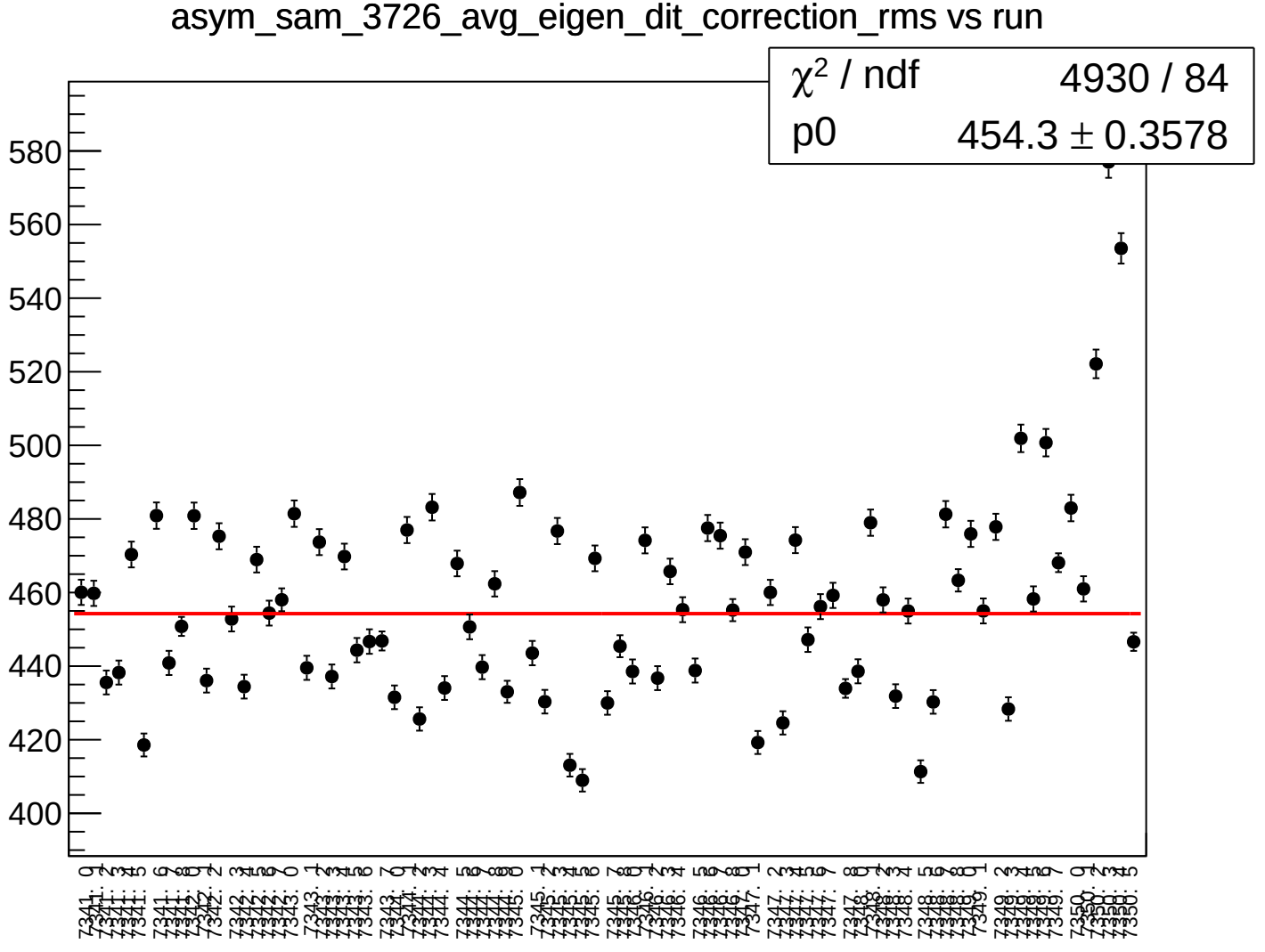

pull1D
Entries 85
Mean −0.009288
Std Dev 0.9845

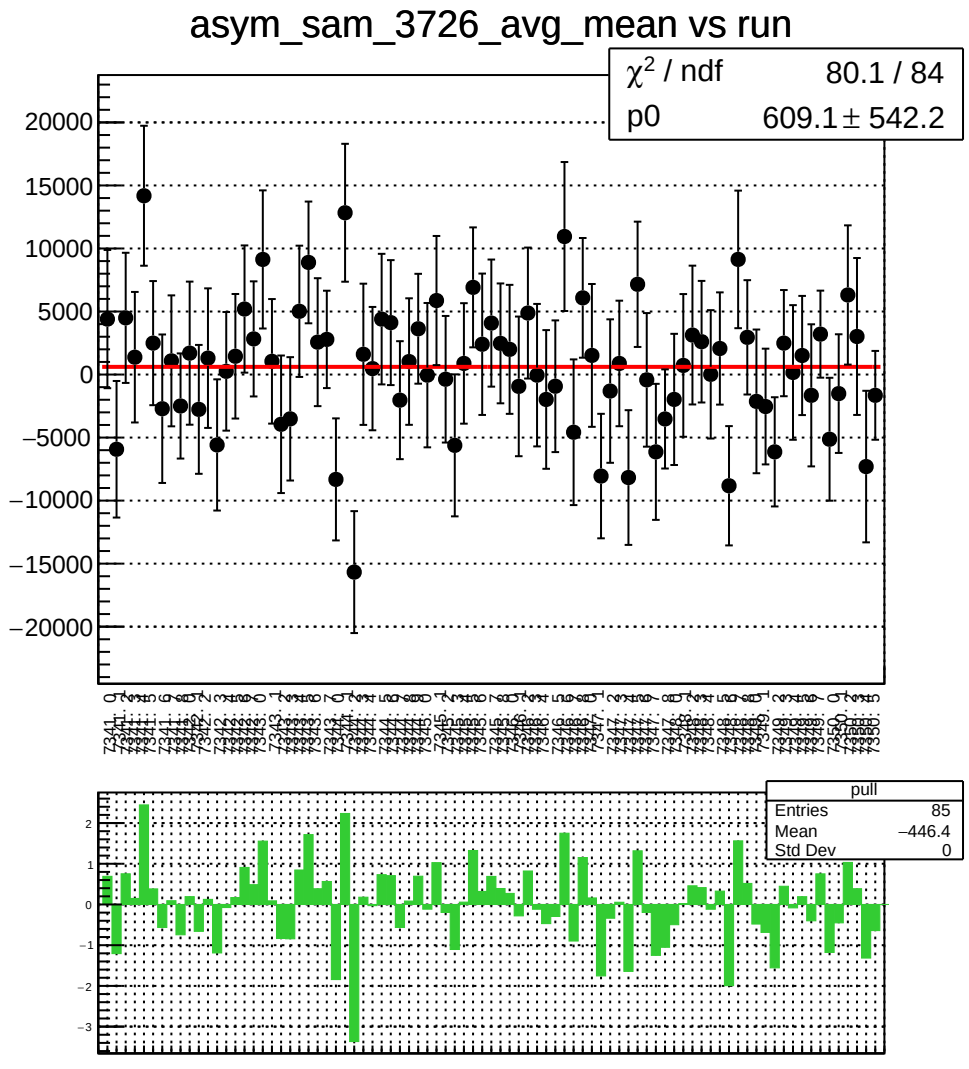

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 4930 / 84
p0 454.3 ± 0.3578
580
560
540
520
500
480
460
440
420
400

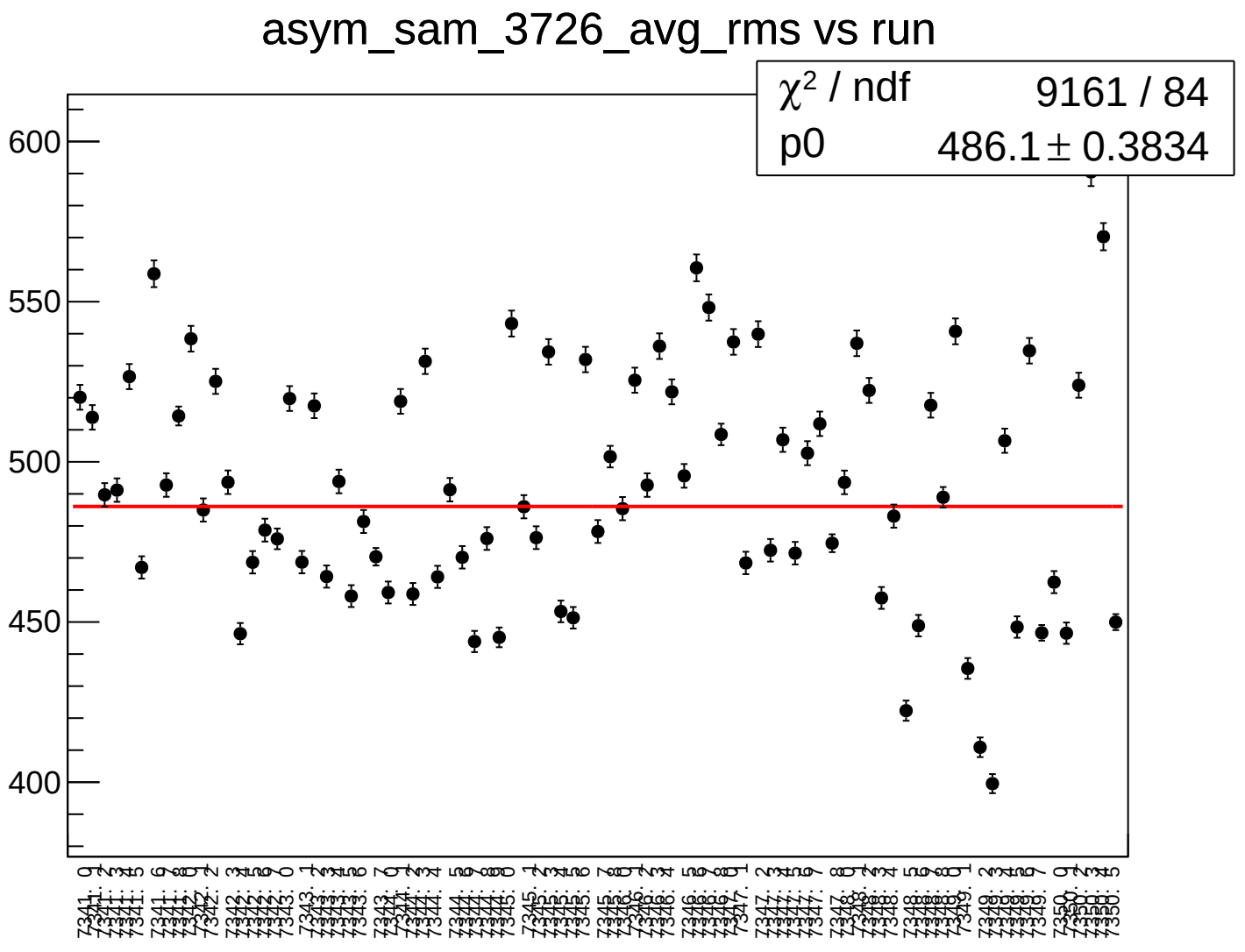

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 81.87 / 84
p0 129.4 ± 110
pull
Entries 85
Mean −0.09342
Std Dev 0
pull1D
Entries 85
Mean −0.02379
Std Dev 0.9811

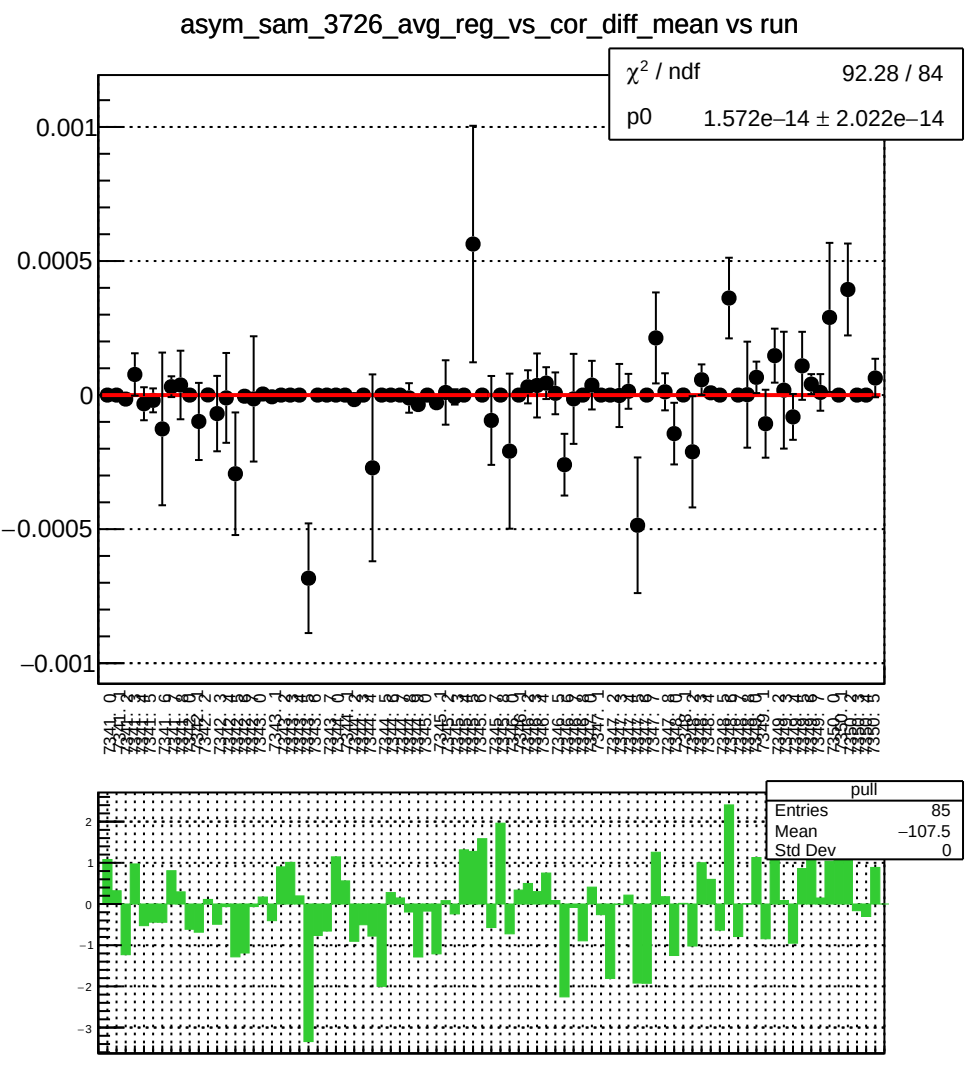

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.518e+04 / 84
p0 97.77 ± 0.07775
180
160
140
120
100
80

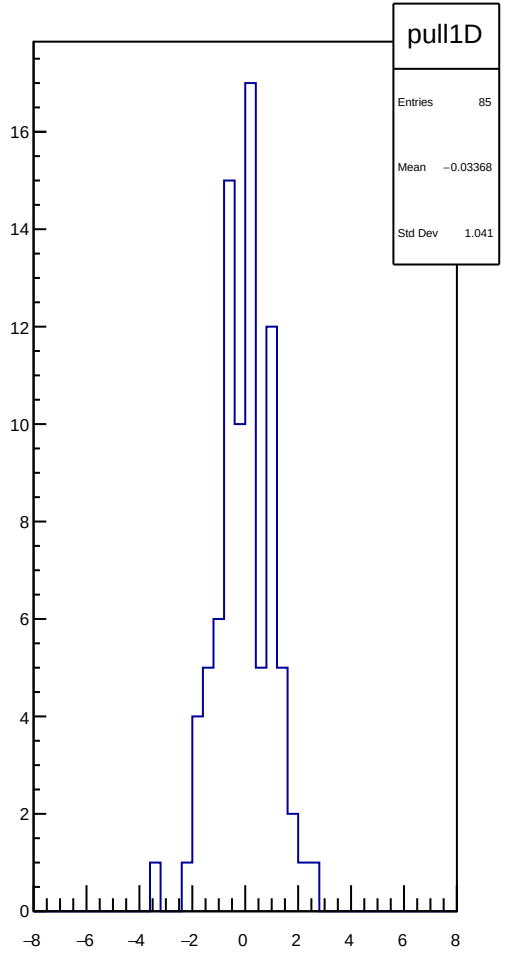

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.39 / 84
p0 −521 ± 506.1
pull
Entries 85
Mean −369.3
Std Dev 0
pull1D
Entries 85
Mean −0.009288
Std Dev 0.9845

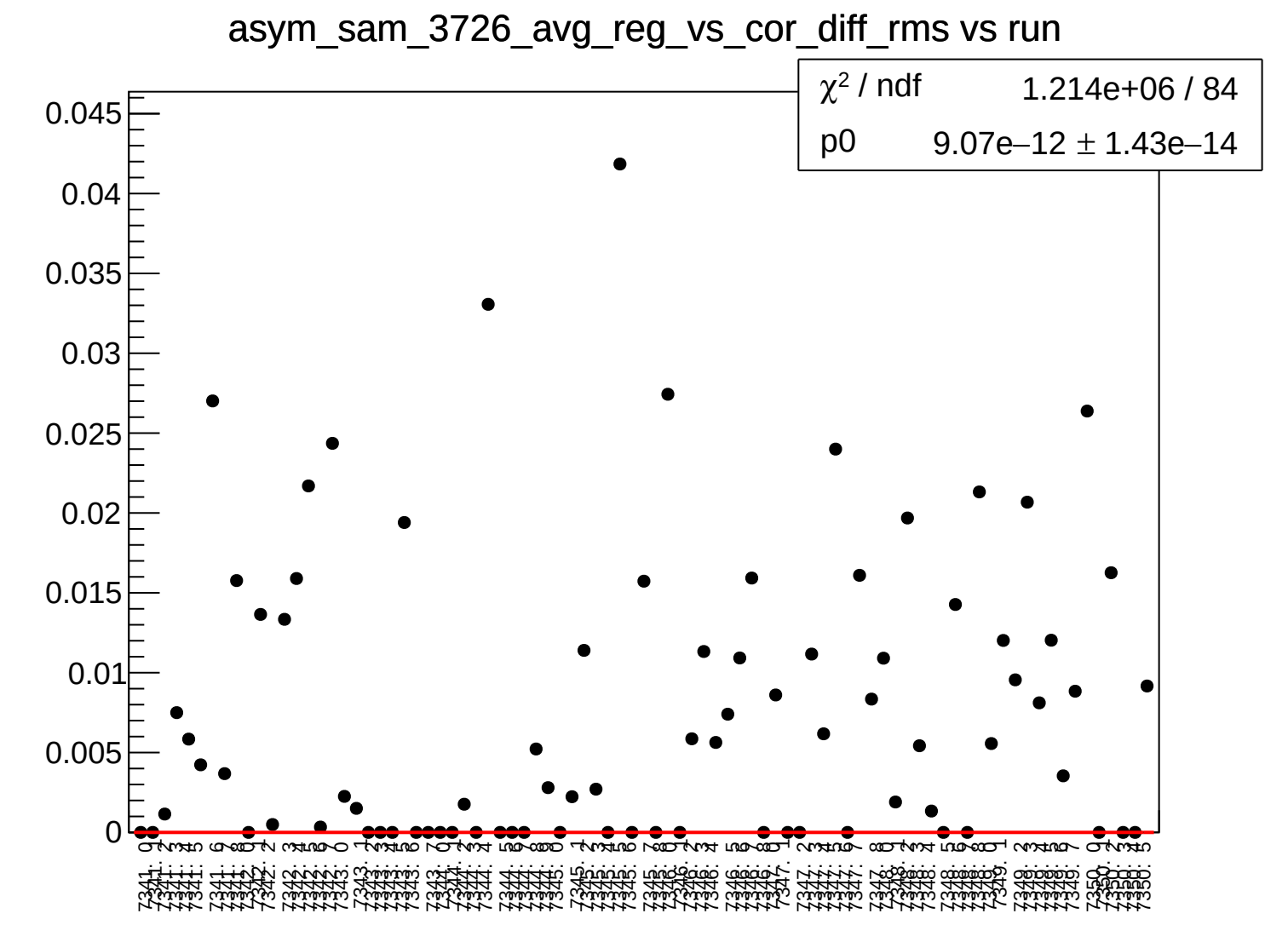

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 4930 / 84
p0 454.3 ± 0.3578
580
560
540
520
500
480
460
440
420
400

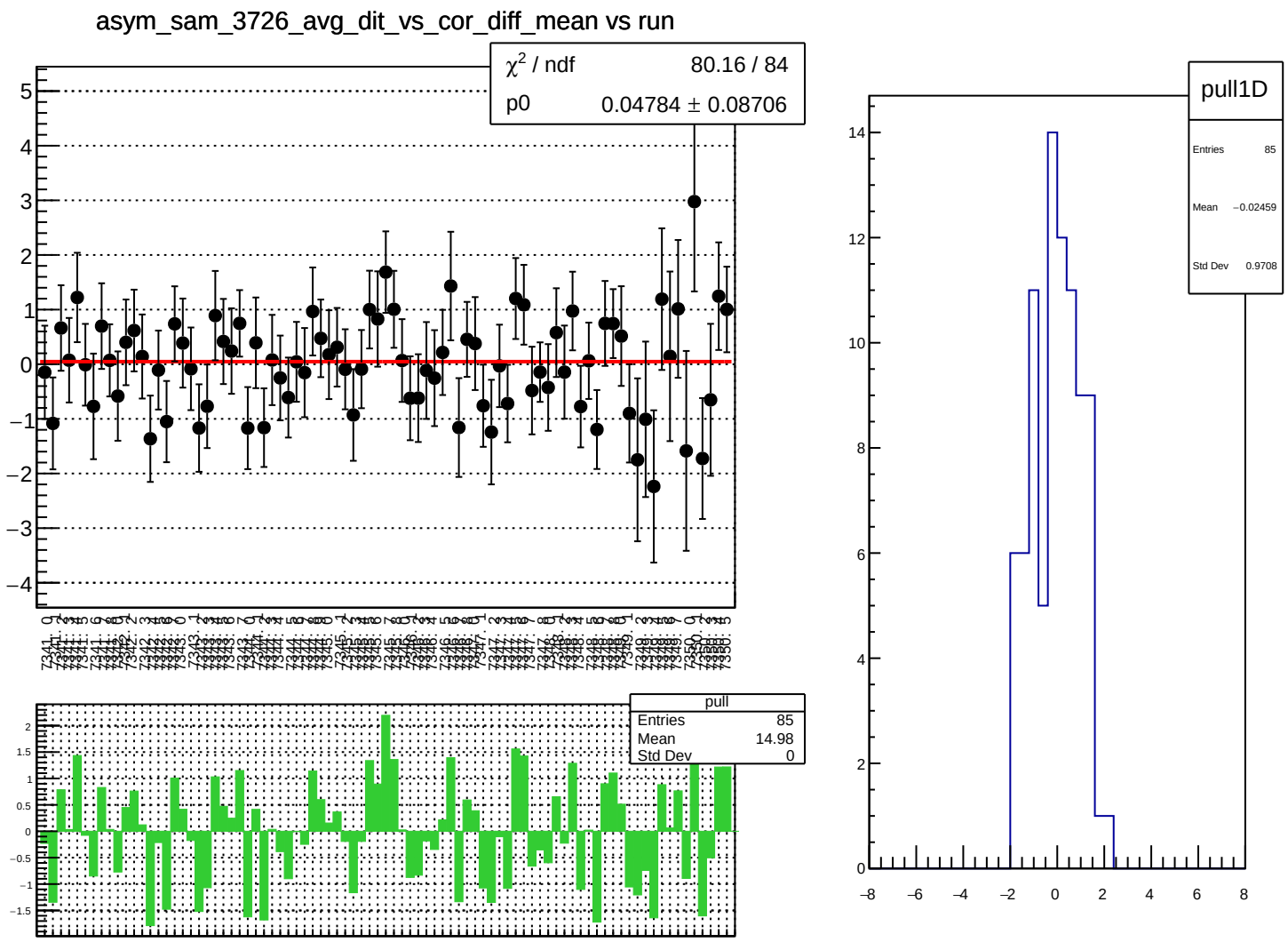

asym_sam_3726_avg_mean vs run
χ² / ndf 80.1 / 84
p0 609.1 ± 542.2
pull
Entries 85
Mean −446.4
Std Dev 0
pull1D
Entries 85
Mean 0.007136
Std Dev 0.9707

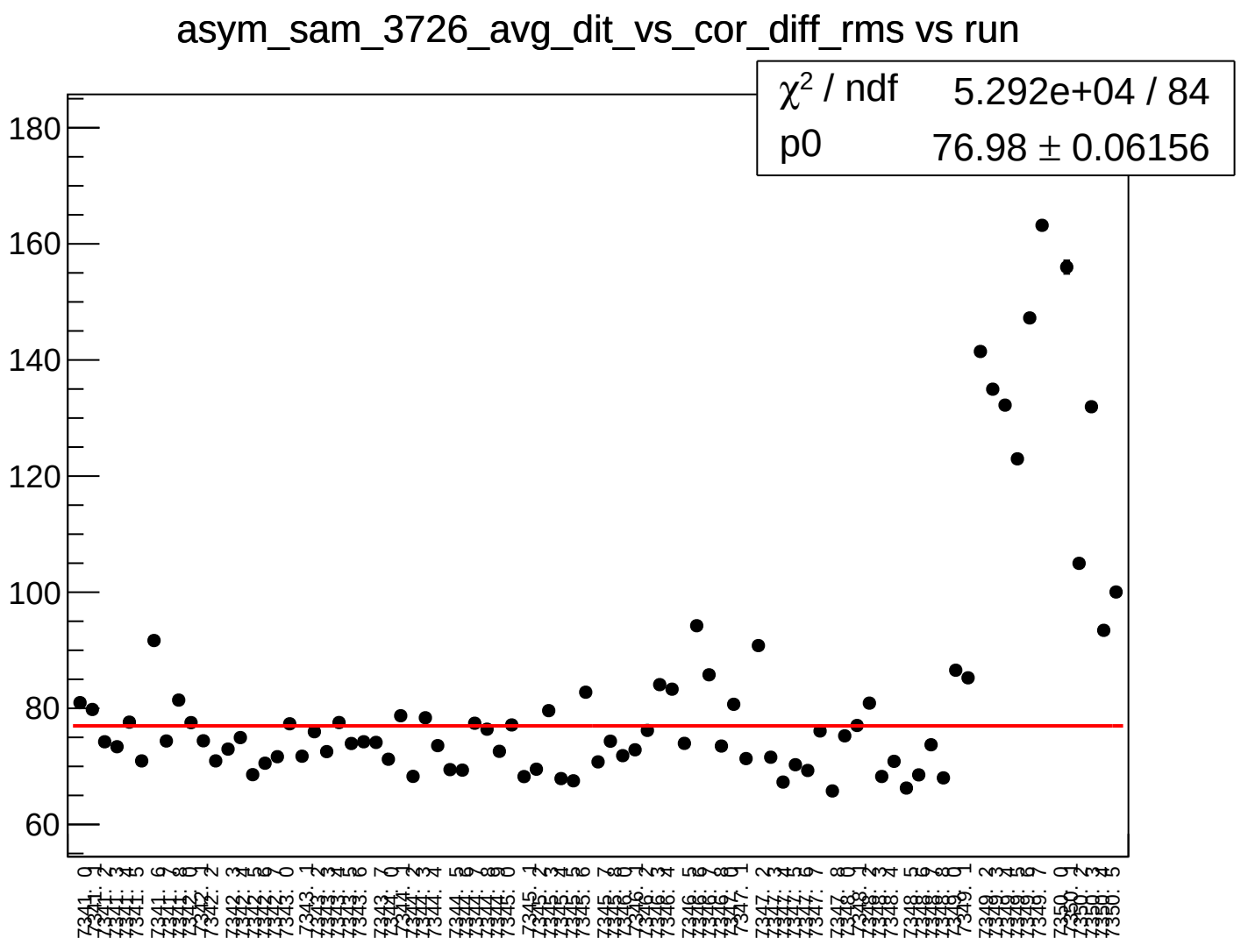

asym_sam_3726_avg_rms vs run
χ² / ndf 9161 / 84
p0 486.1 ± 0.3834
600
550
500
450
400

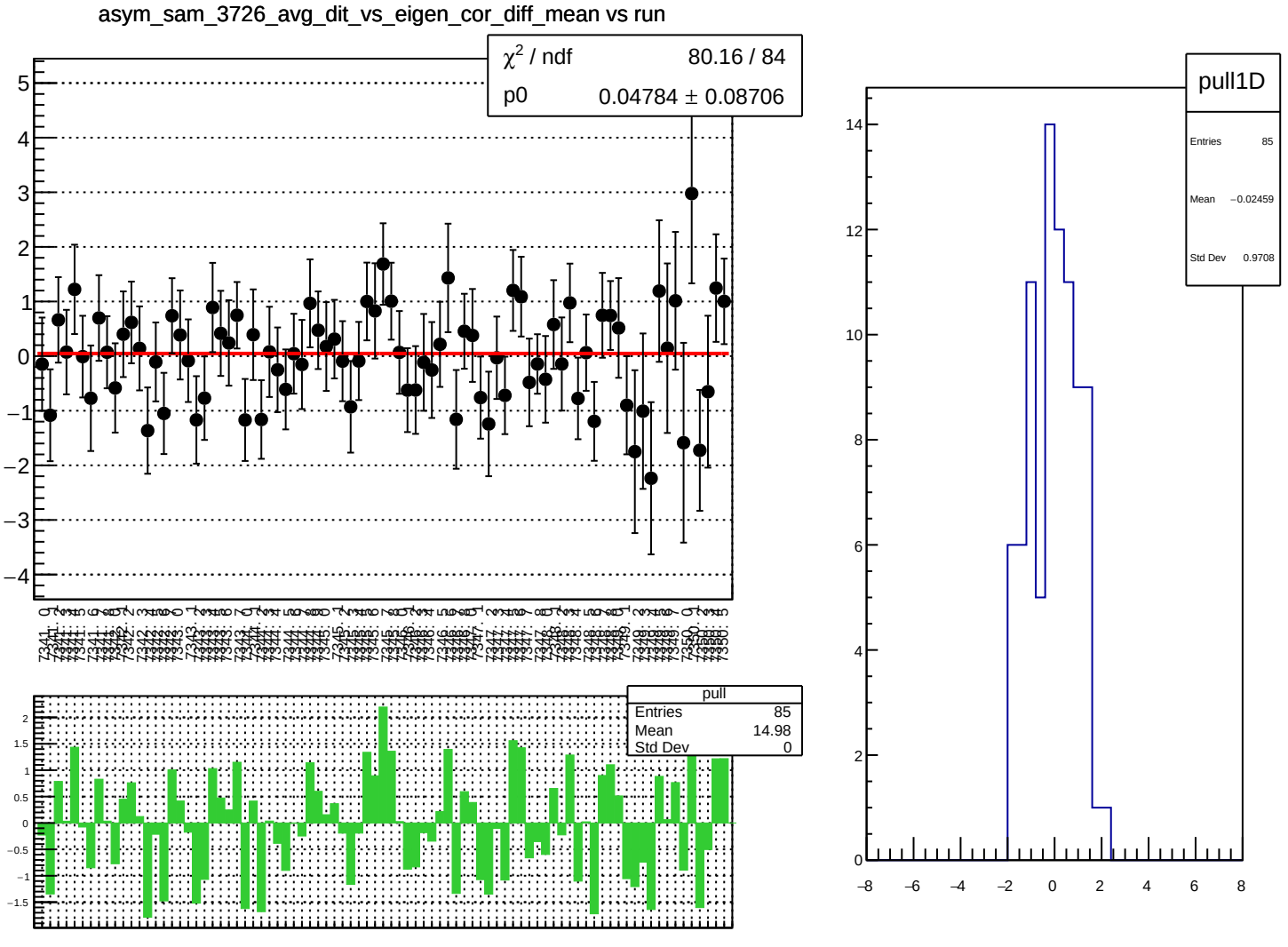

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.28 / 84
p0 1.572e−14 ± 2.022e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean −107.5
Std Dev 0

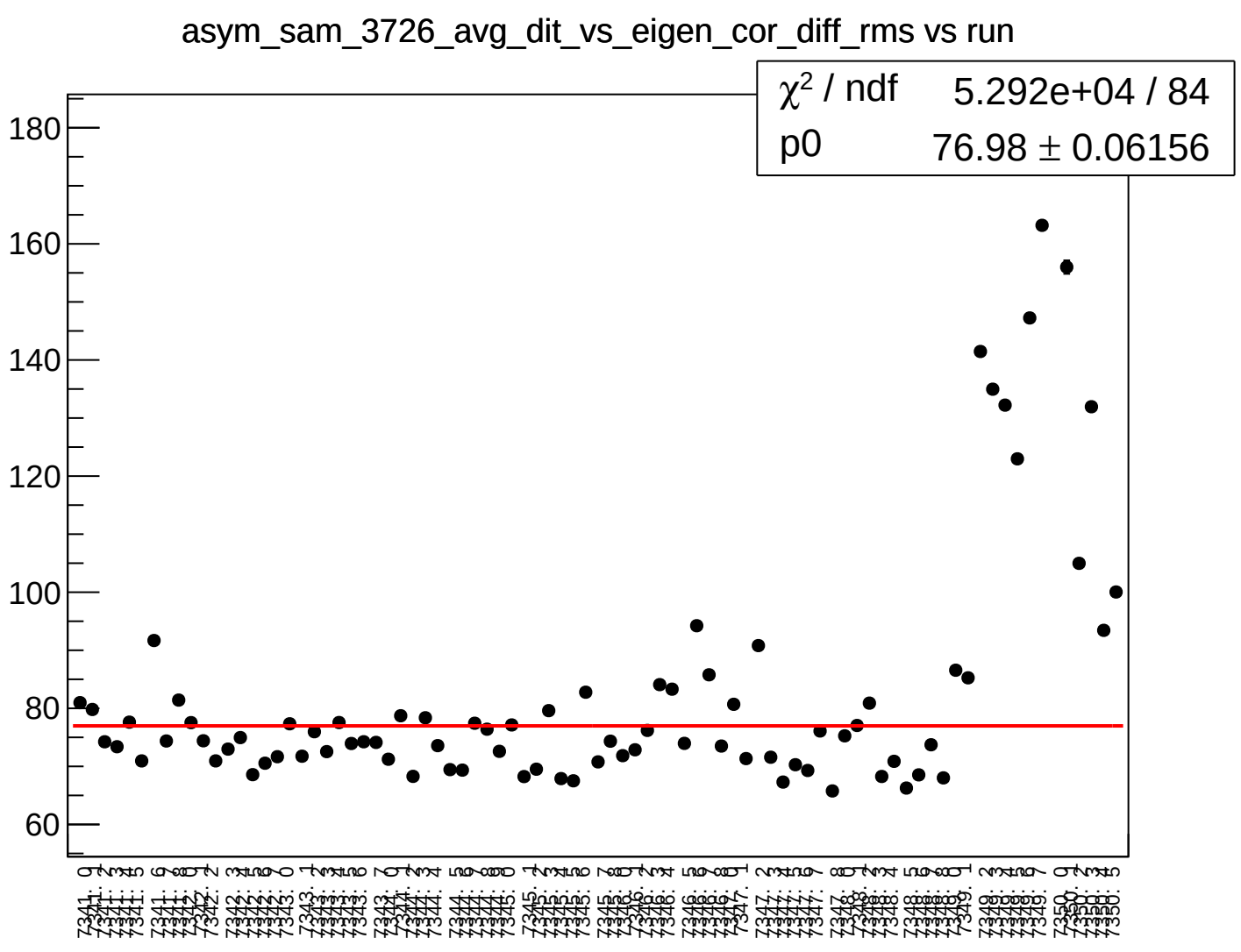

pull1D
Entries 85
Mean −0.03368
Std Dev 1.041

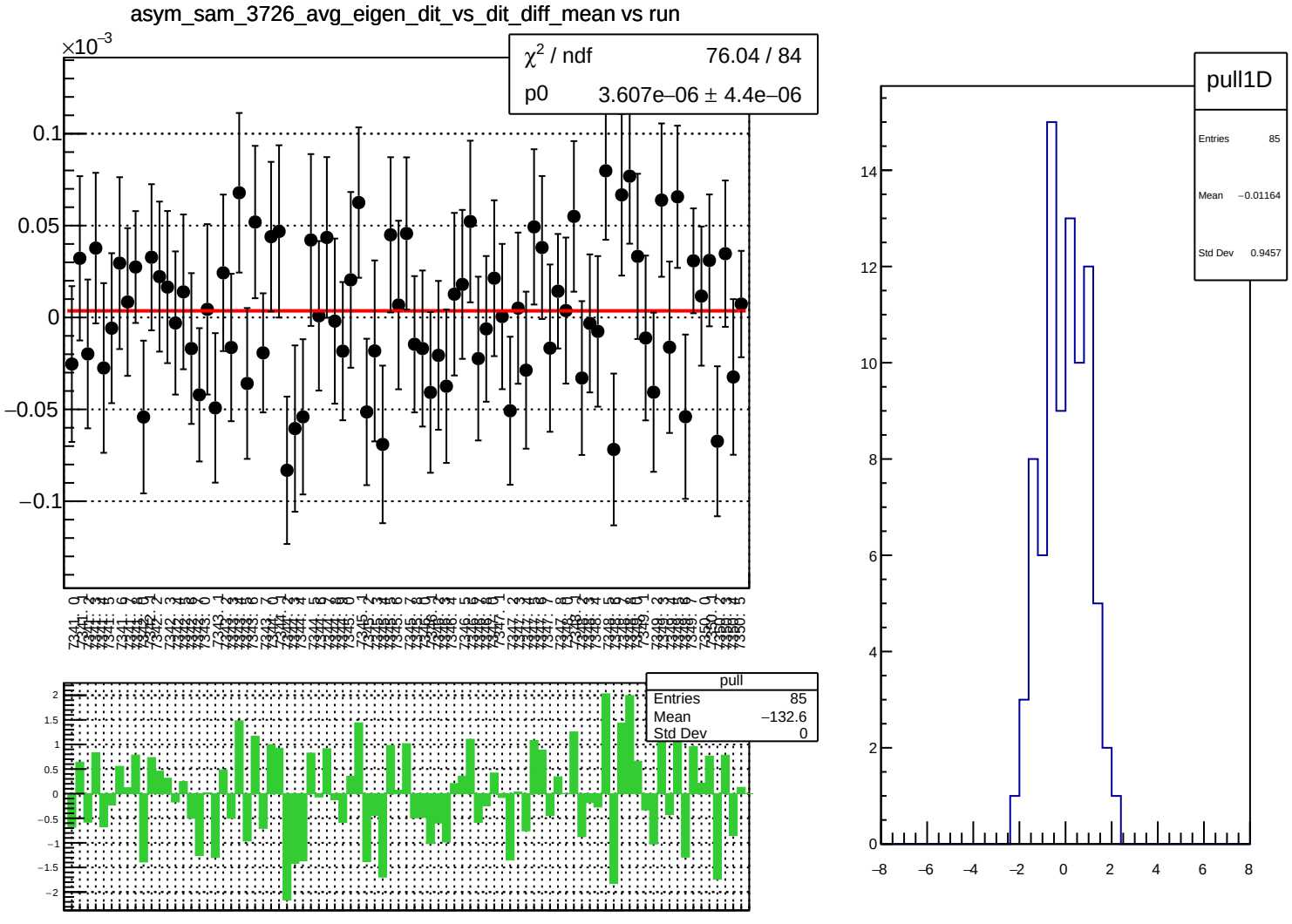

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.214e+06 / 84
p0 9.07e−12 ± 1.43e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

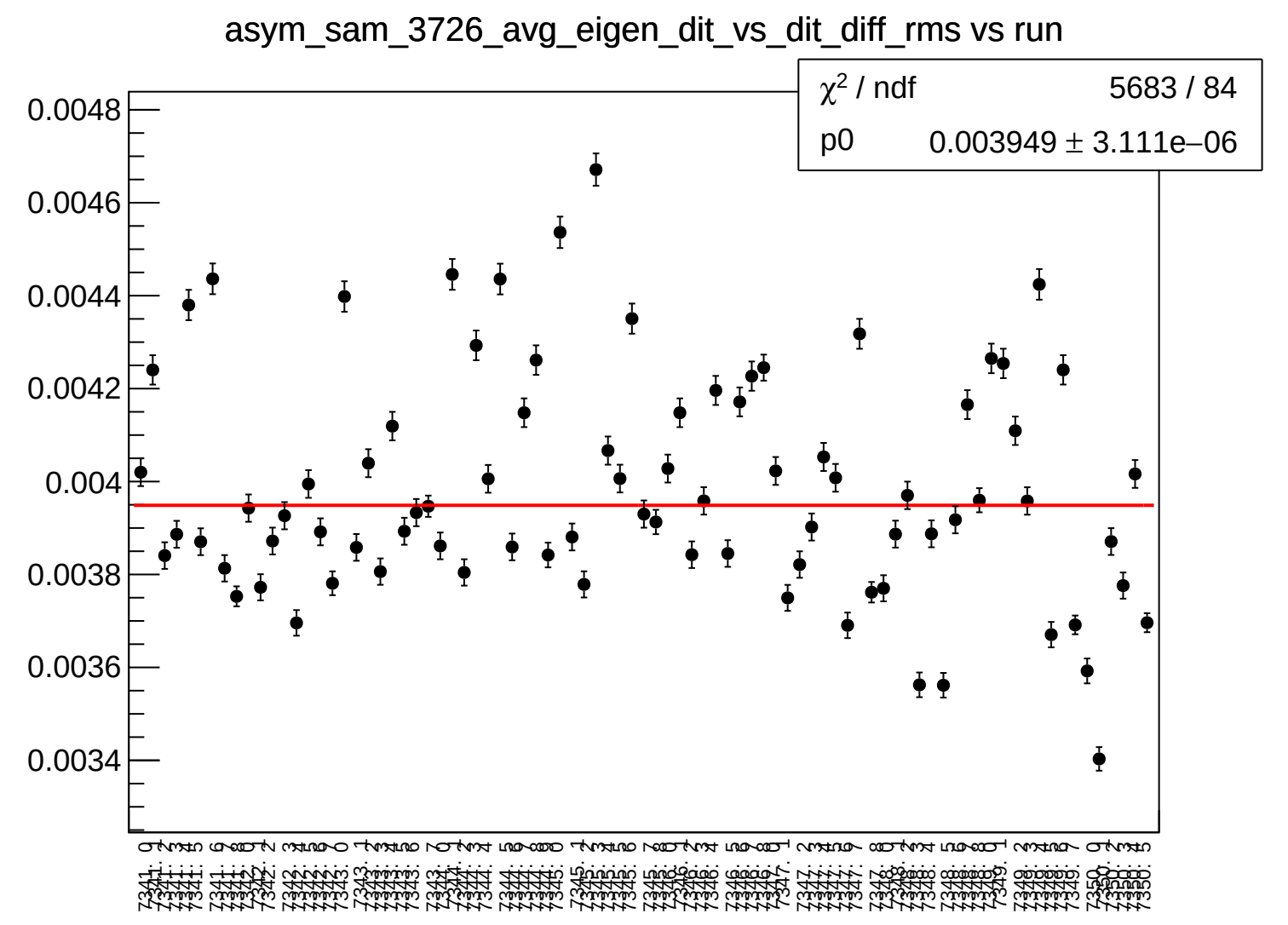

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.16 / 84
p0 0.04784 ± 0.08706
pull
Entries 85
Mean 14.98
Std Dev 0
pull1D
Entries 85
Mean −0.02459
Std Dev 0.9708

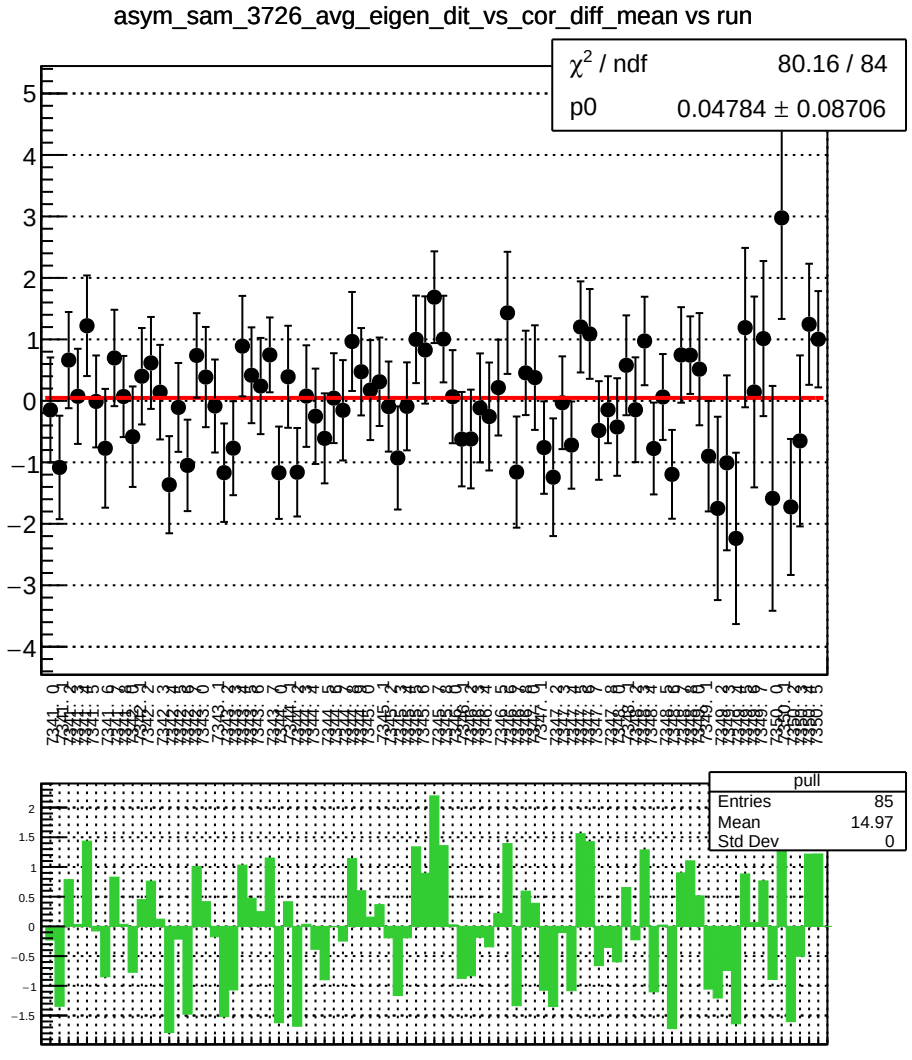

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.292e+04 / 84
p0 76.98 ± 0.06156
180
160
140
120
100
80
60

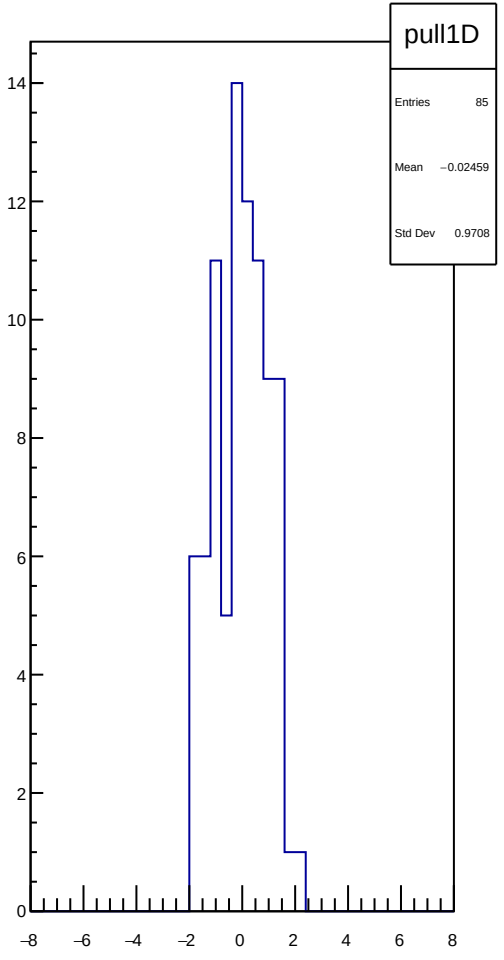

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.16 / 84
p0 0.04784 ± 0.08706
pull
Entries 85
Mean 14.98
Std Dev 0
pull1D
Entries 85
Mean −0.02459
Std Dev 0.9708

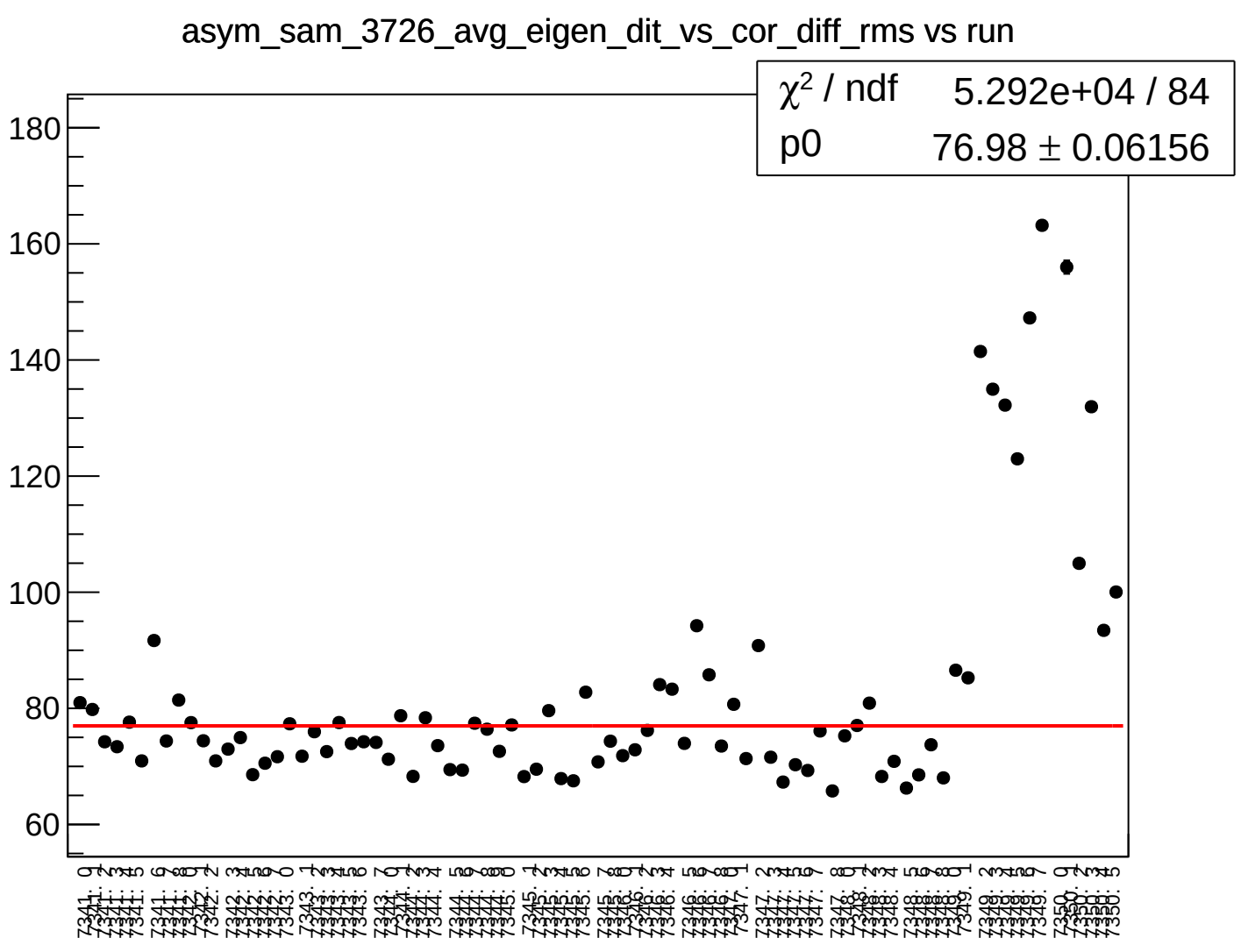

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.292e+04 / 84
p0 76.98 ± 0.06156
180
160
140
120
100
80
60

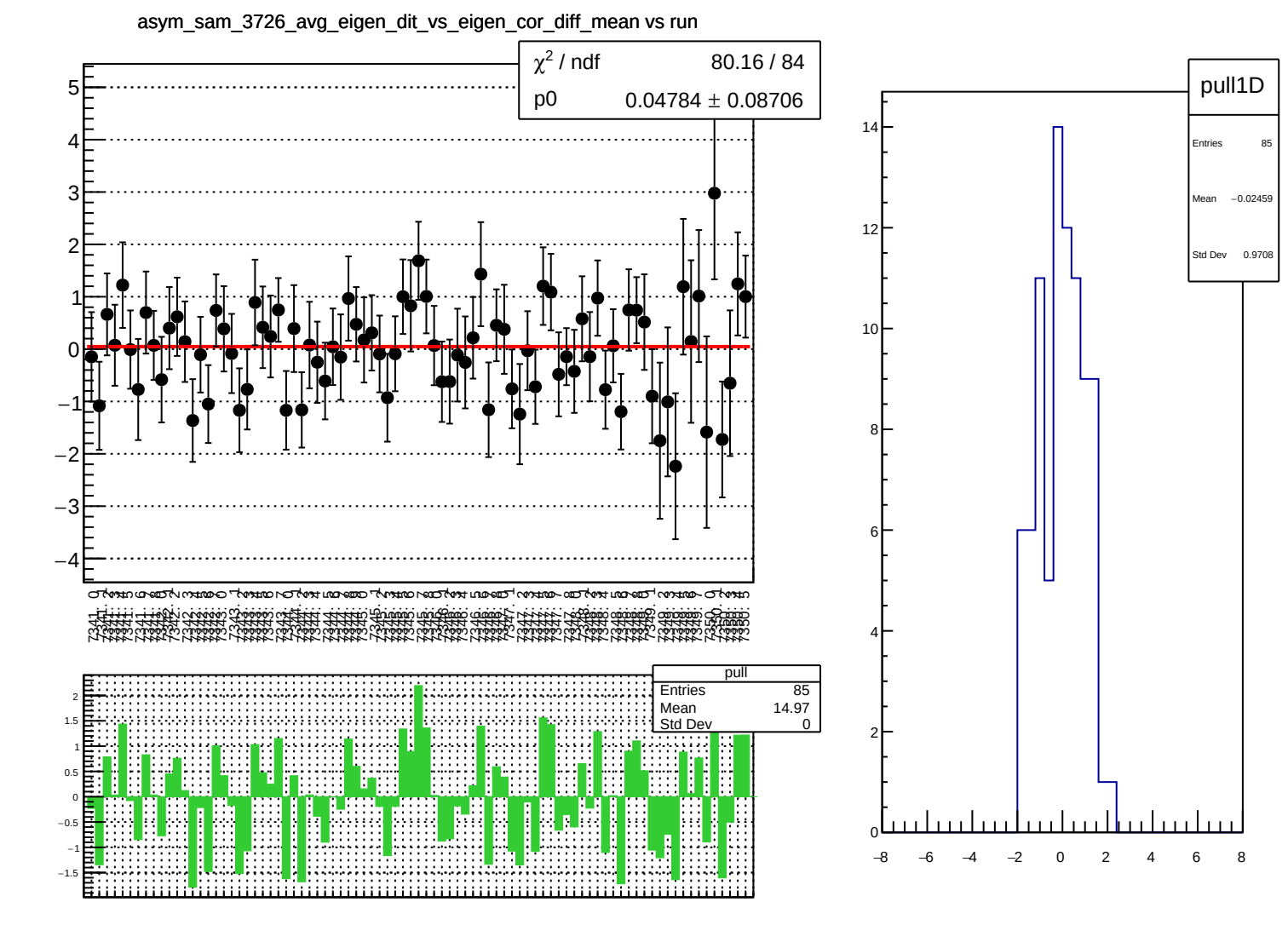

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.04 / 84
p0 3.607e−06 ± 4.4e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean −132.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean −0.01164
Std Dev 0.9457
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

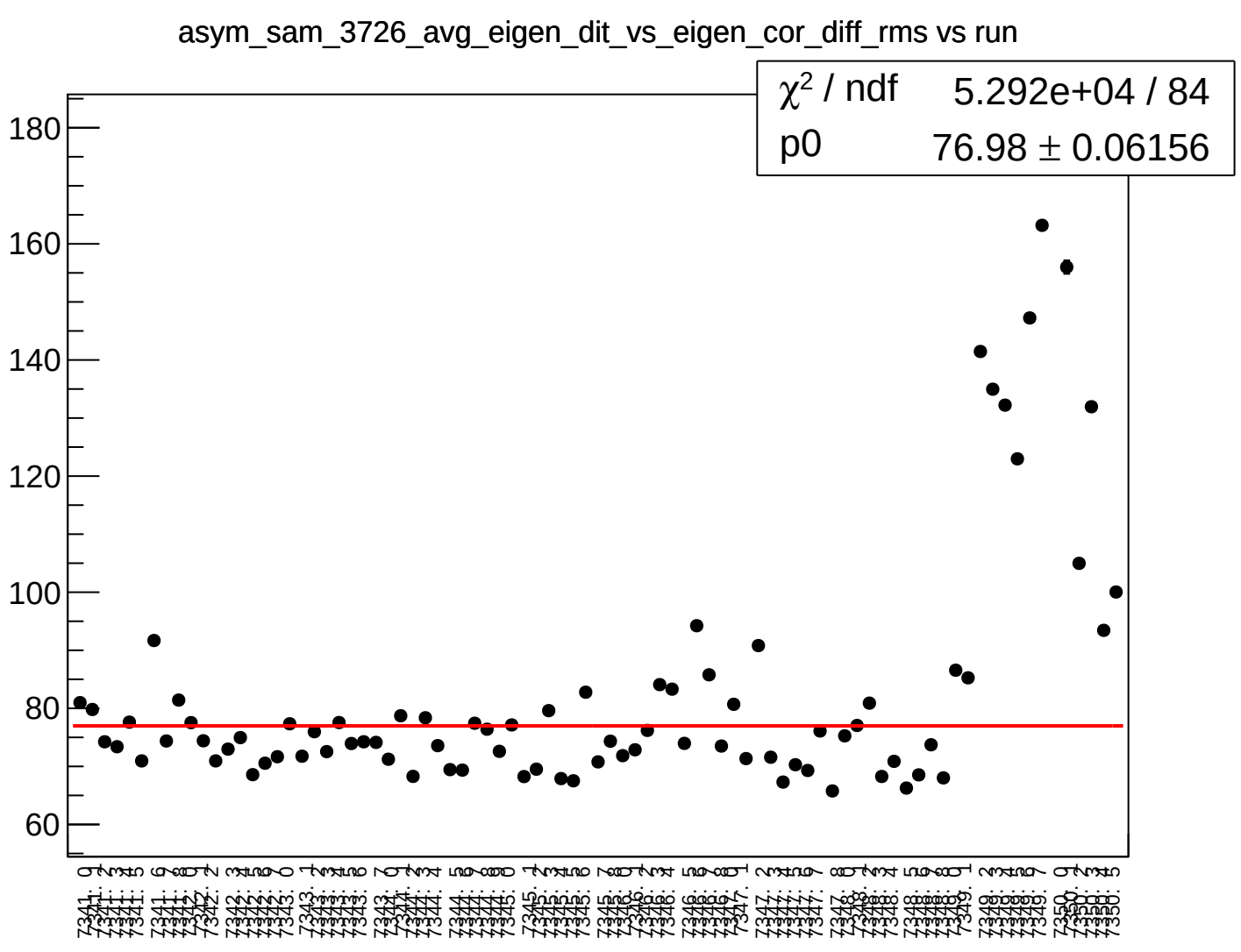

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5683 / 84
p0 0.003949 ± 3.111e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

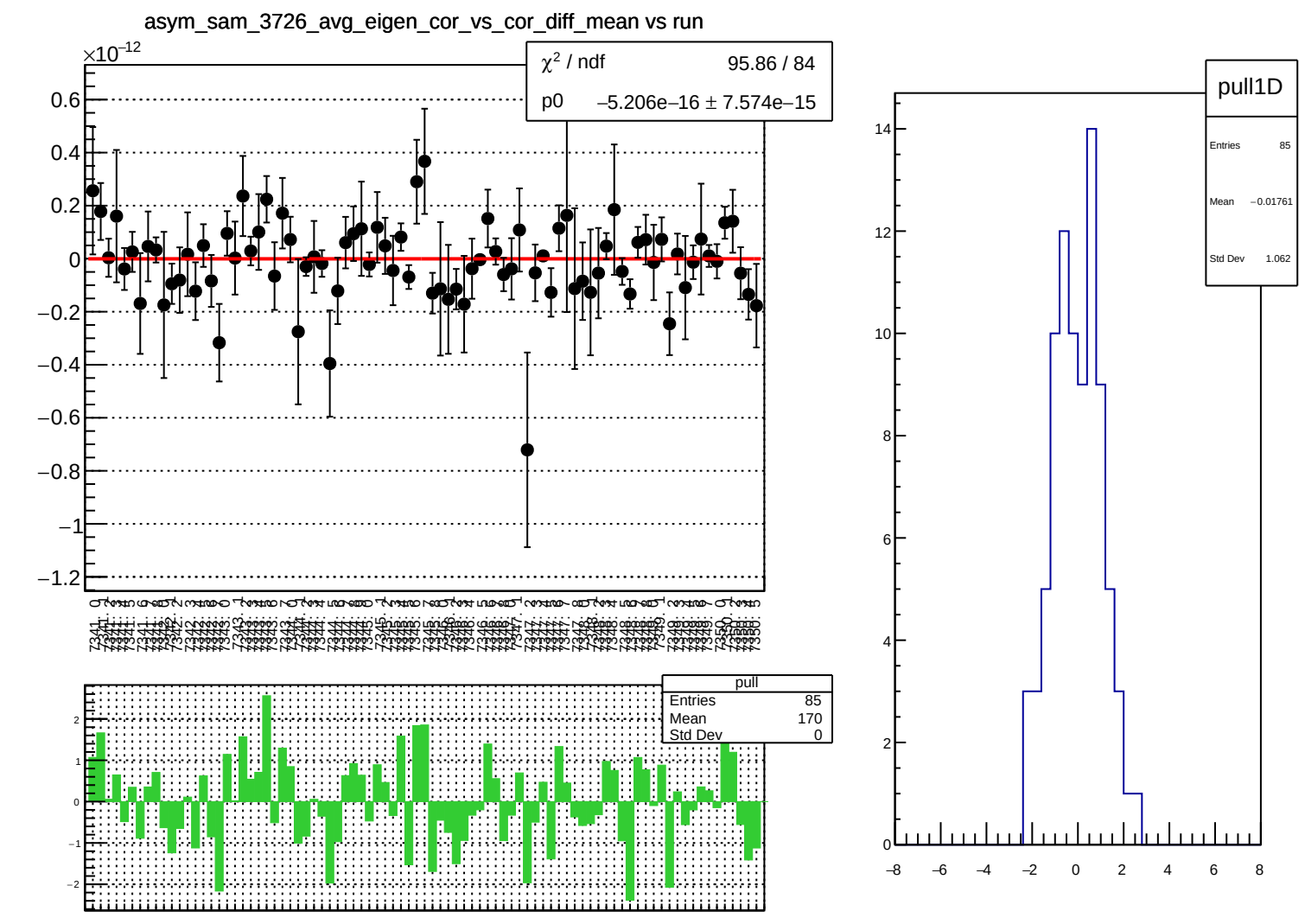

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.16 / 84
p0 0.04784 ± 0.08706
pull
Entries 85
Mean 14.97
Std Dev 0

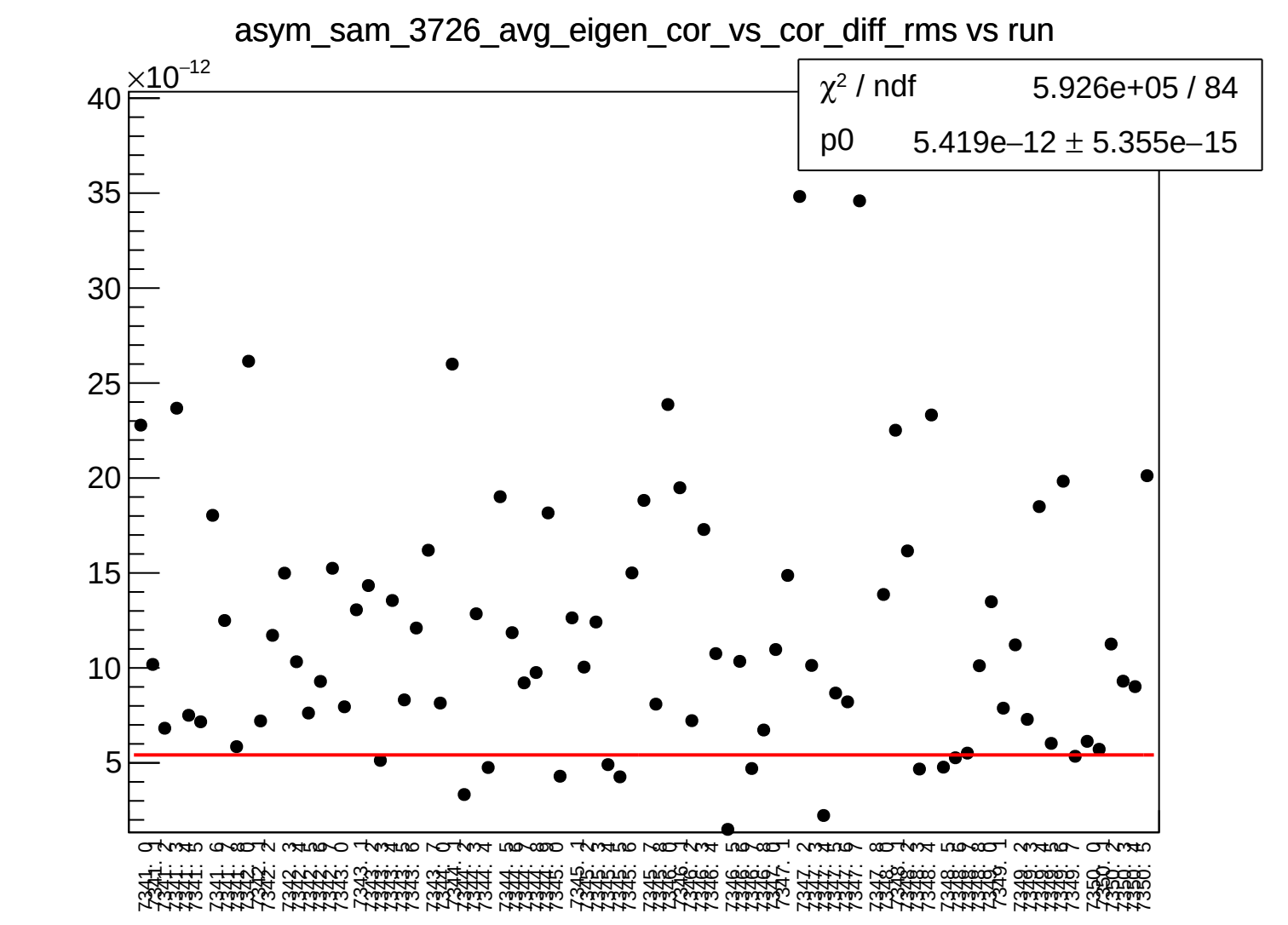

pull1D
Entries 85
Mean −0.02459
Std Dev 0.9708

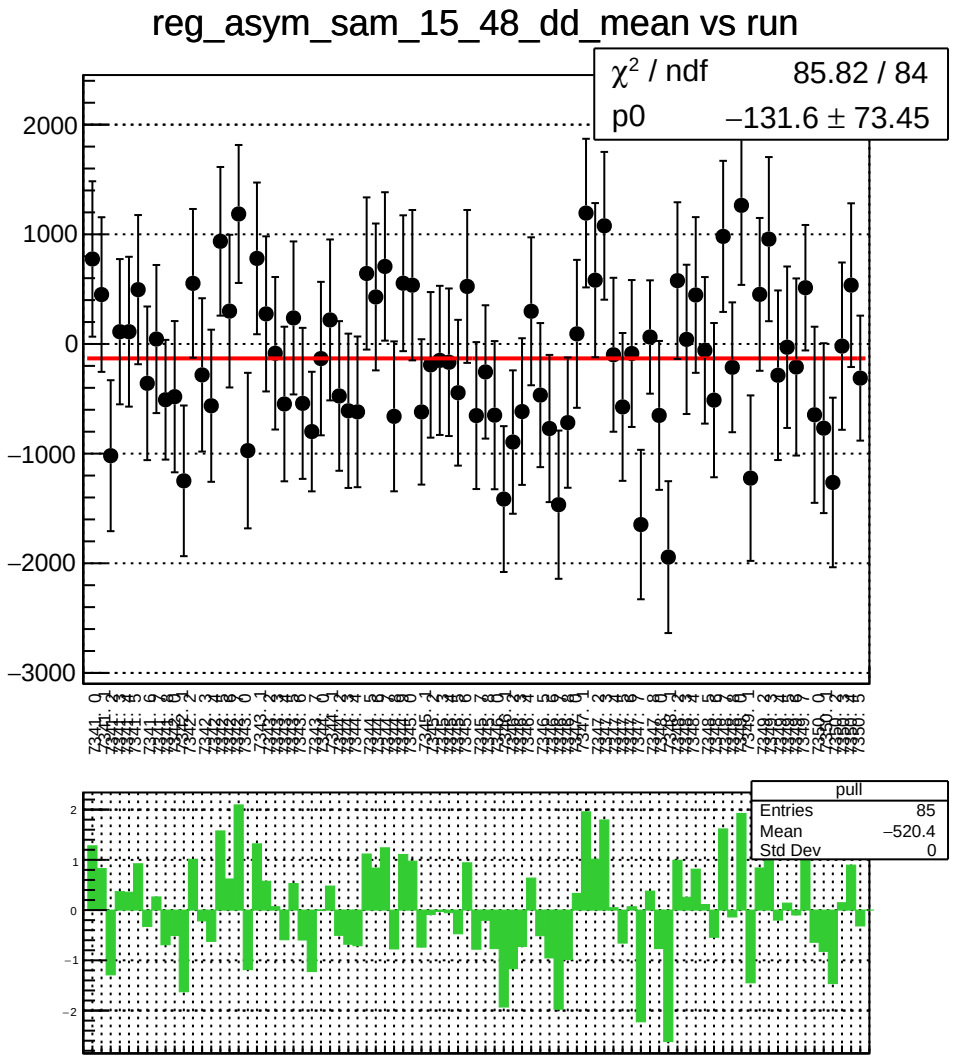

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.292e+04 / 84
p0 76.98 ± 0.06156
180
160
140
120
100
80
60

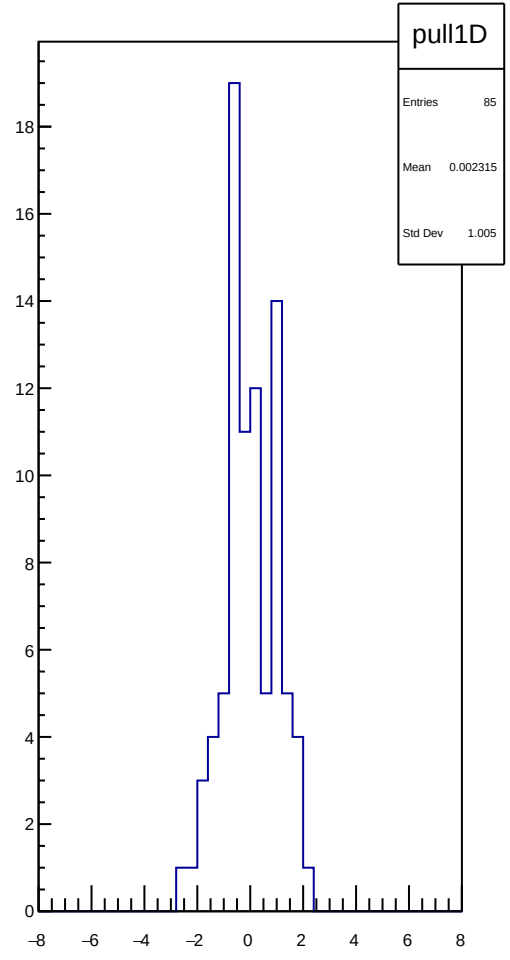

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.16 / 84
p0 0.04784 ± 0.08706
pull
Entries 85
Mean 14.97
Std Dev 0
pull1D
Entries 85
Mean −0.02459
Std Dev 0.9708

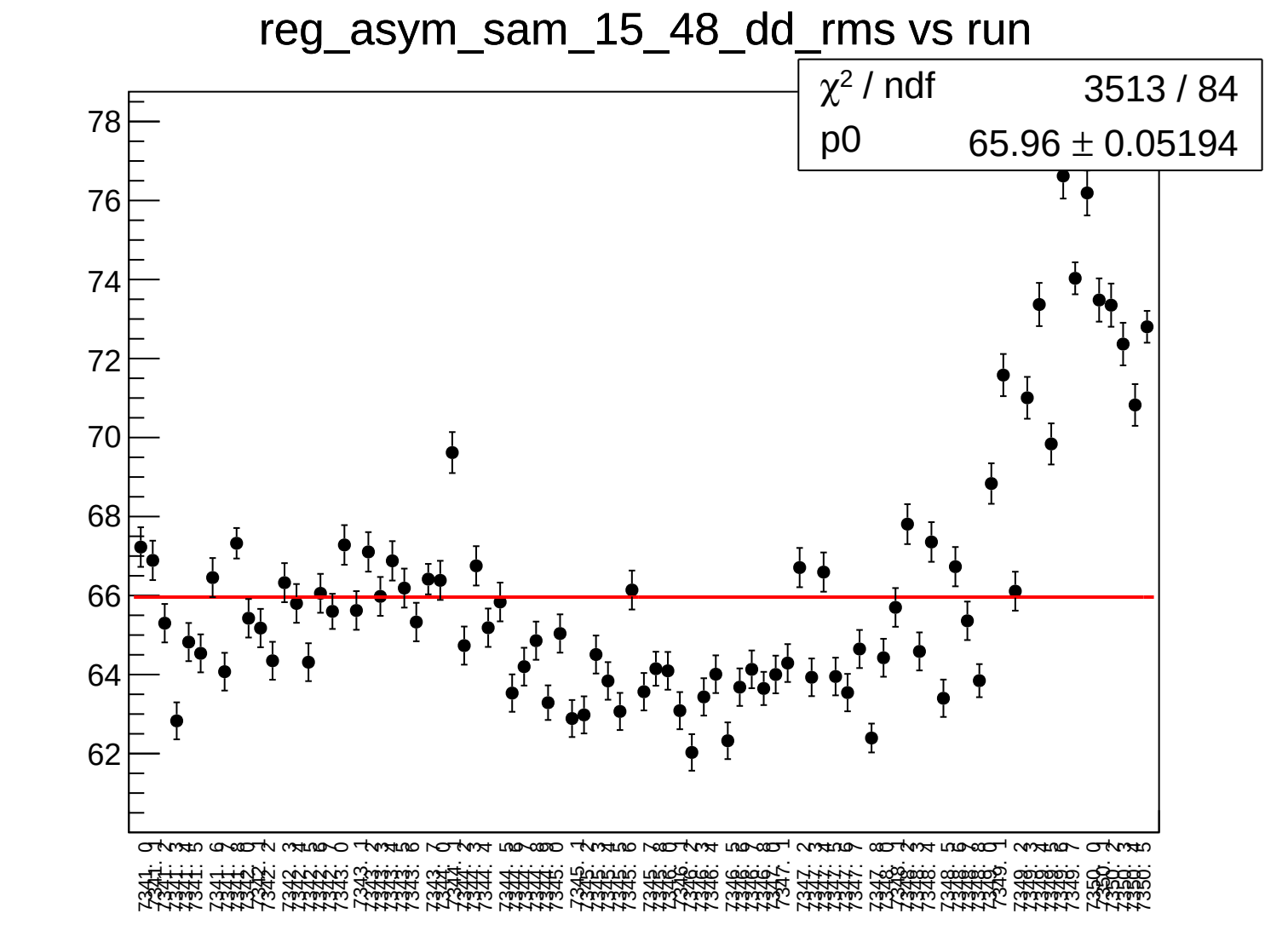

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.292e+04 / 84
p0 76.98 ± 0.06156
180
160
140
120
100
80
60

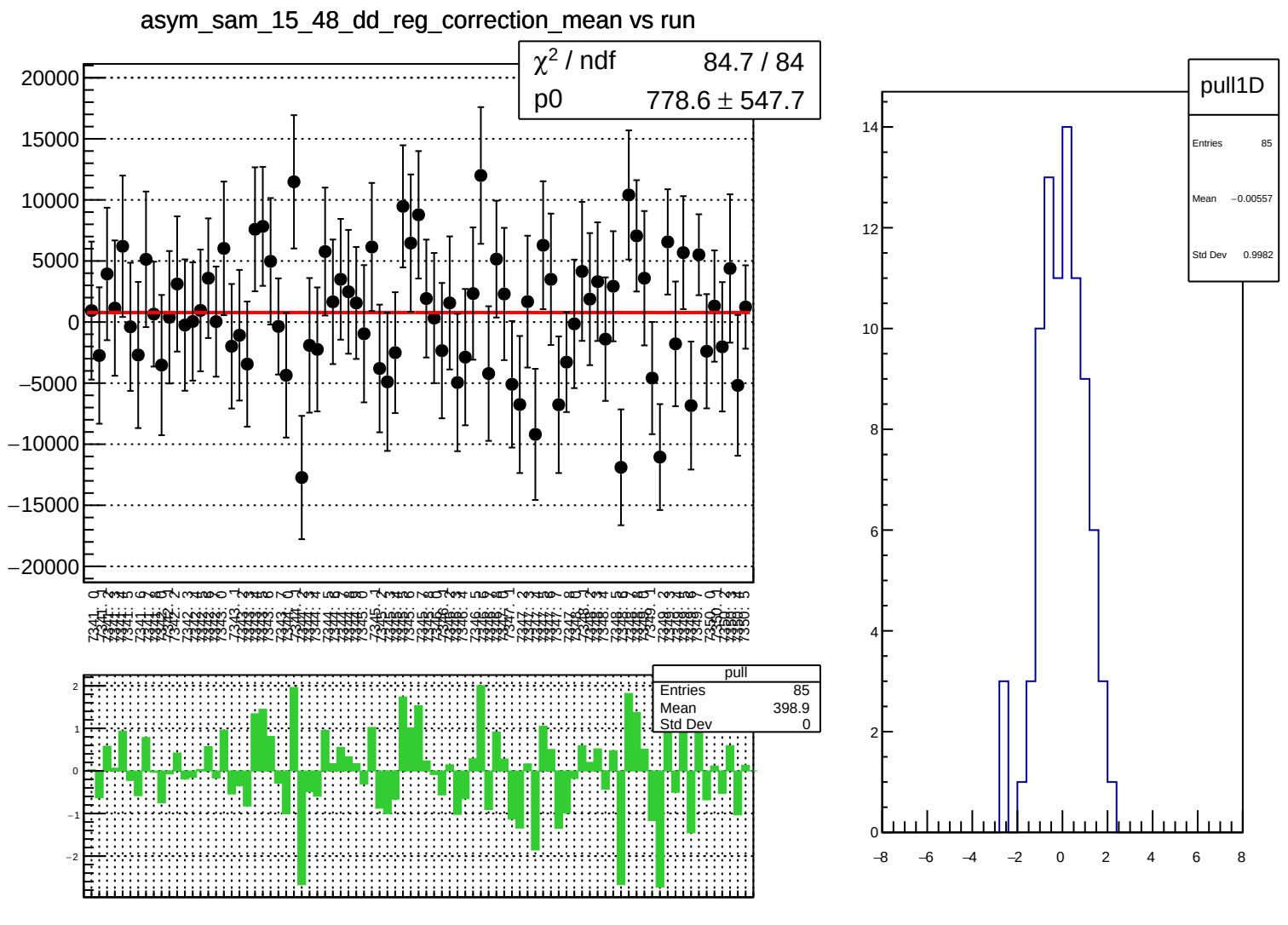

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.86 / 84
p0 −5.206e−16 ± 7.574e−15
pull
Entries 85
Mean 170
Std Dev 0
pull1D
Entries 85
Mean −0.01761
Std Dev 1.062

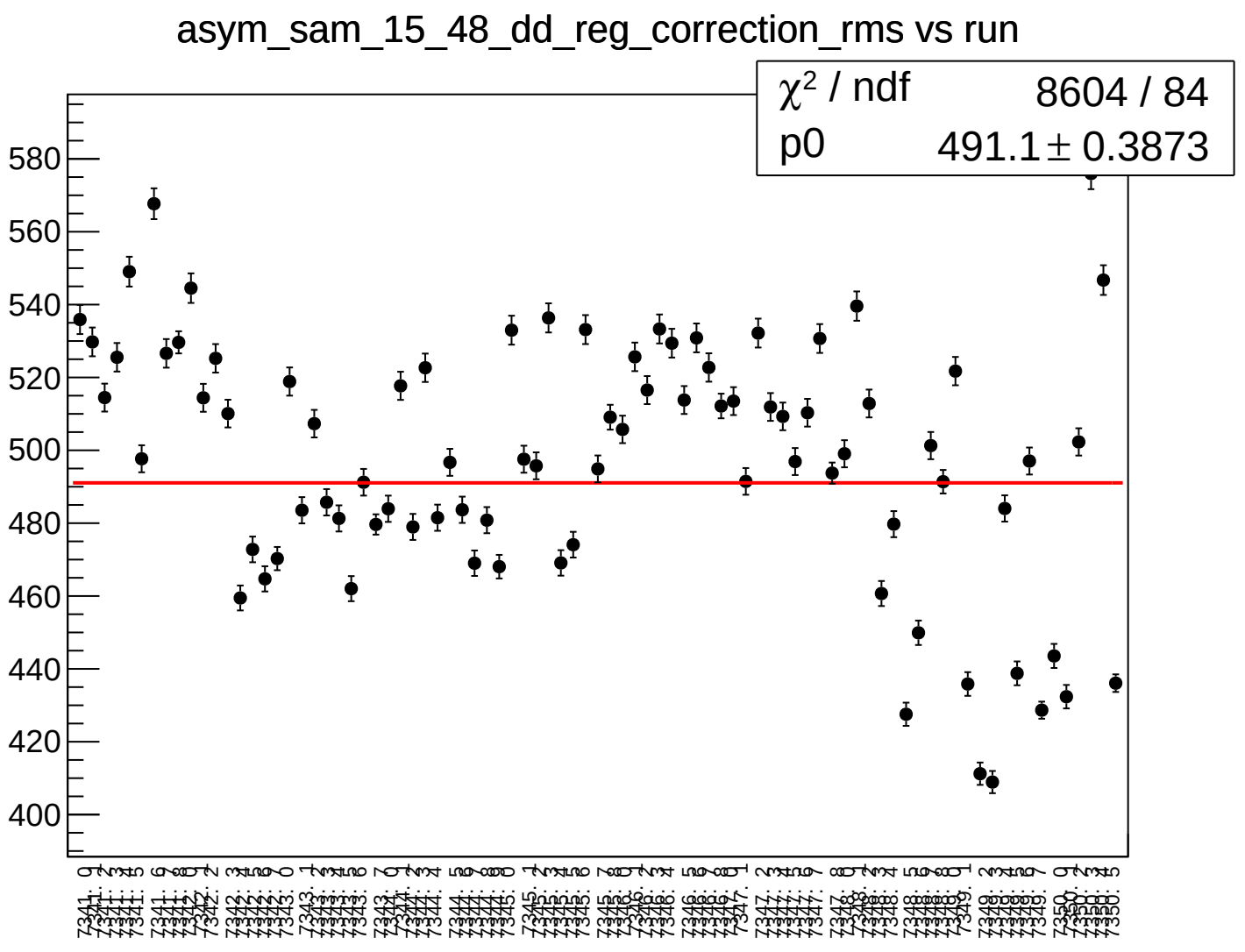

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.926e+05 / 84
p0 5.419e−12 ± 5.355e−15
40
35
30
25
20
15
10
5

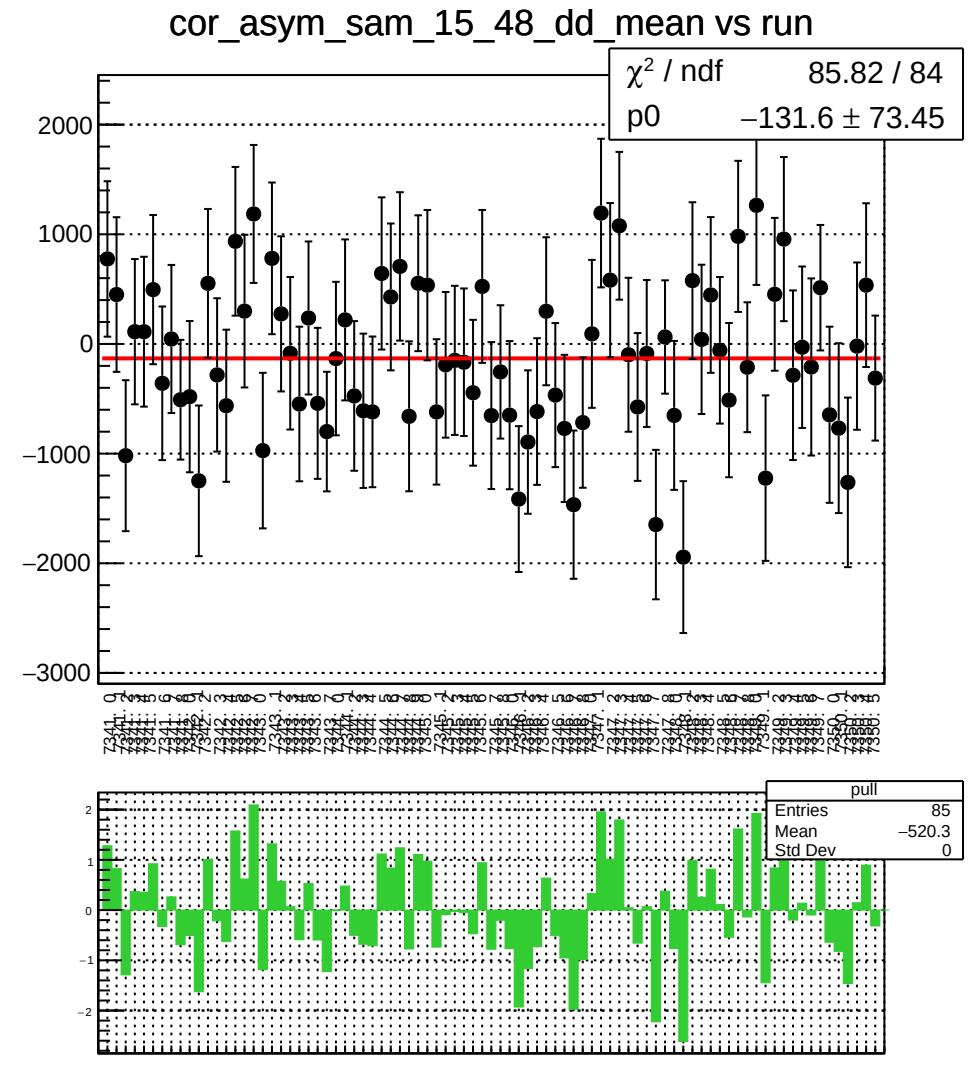

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.82 / 84
p0 −131.6 ± 73.45
pull
Entries 85
Mean −520.4
Std Dev 0

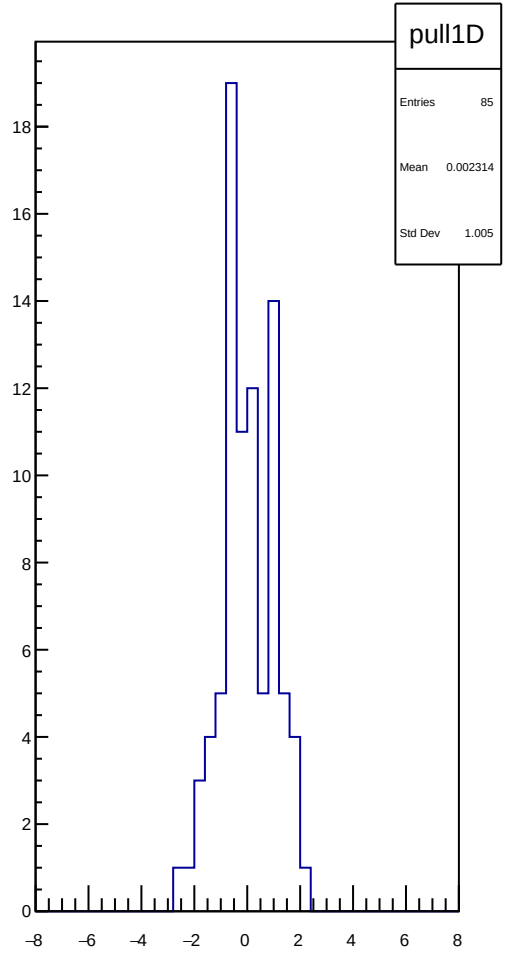

pull1D
Entries 85
Mean 0.002315
Std Dev 1.005

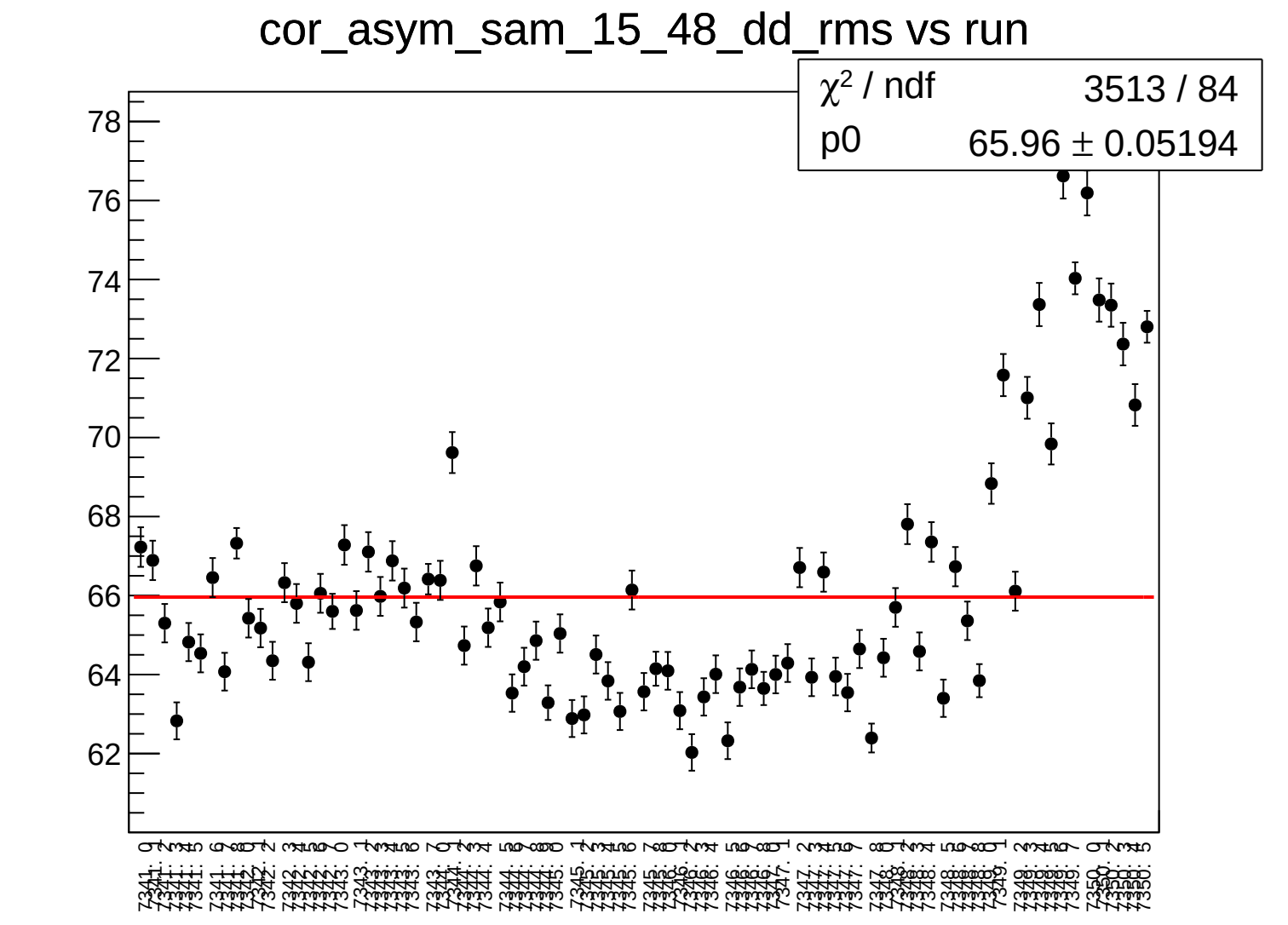

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3513 / 84
p0 65.96 ± 0.05194
78
76
74
72
70
68
66
64
62

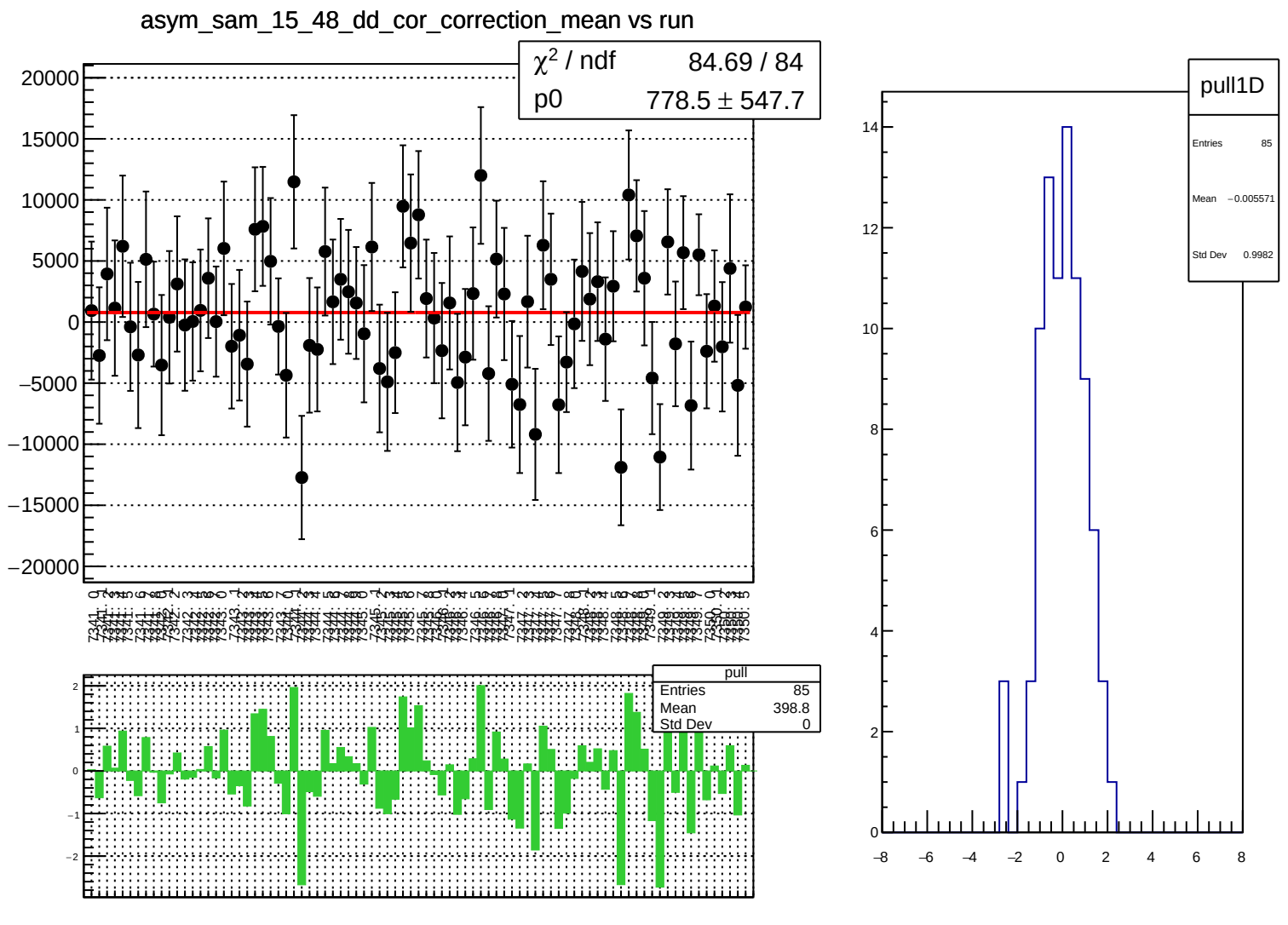

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 84.7 / 84
p0 778.6 ± 547.7
pull
Entries 85
Mean 398.9
Std Dev 0
pull1D
Entries 85
Mean −0.00557
Std Dev 0.9982

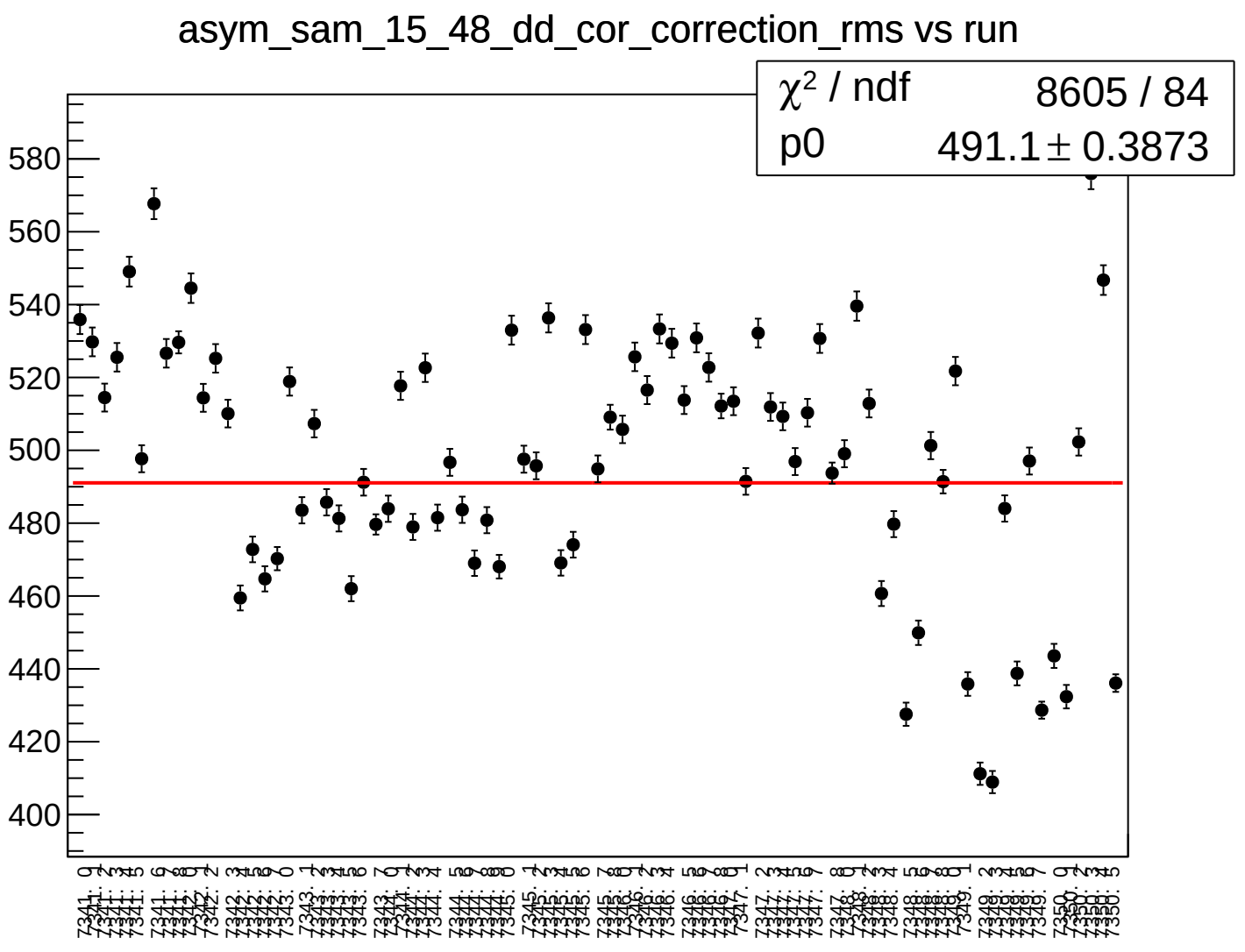

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 8604 / 84
p0 491.1 ± 0.3873
580
560
540
520
500
480
460
440
420
400

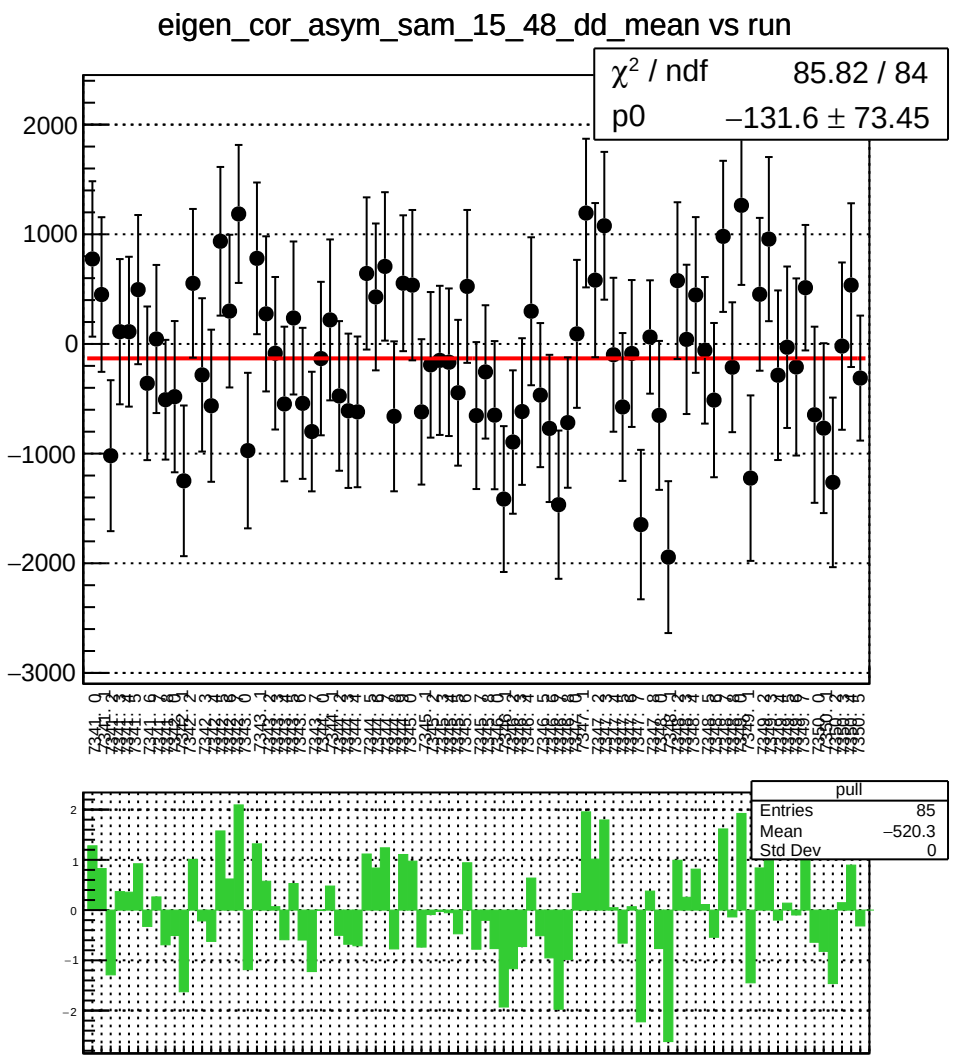

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.82 / 84
p0 −131.6 ± 73.45
pull
Entries 85
Mean −520.3
Std Dev 0

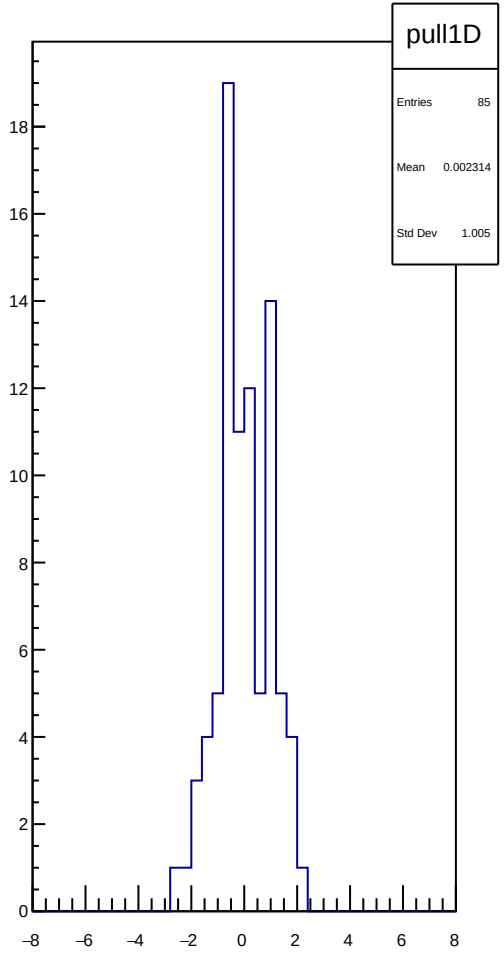

pull1D
Entries 85
Mean 0.002314
Std Dev 1.005

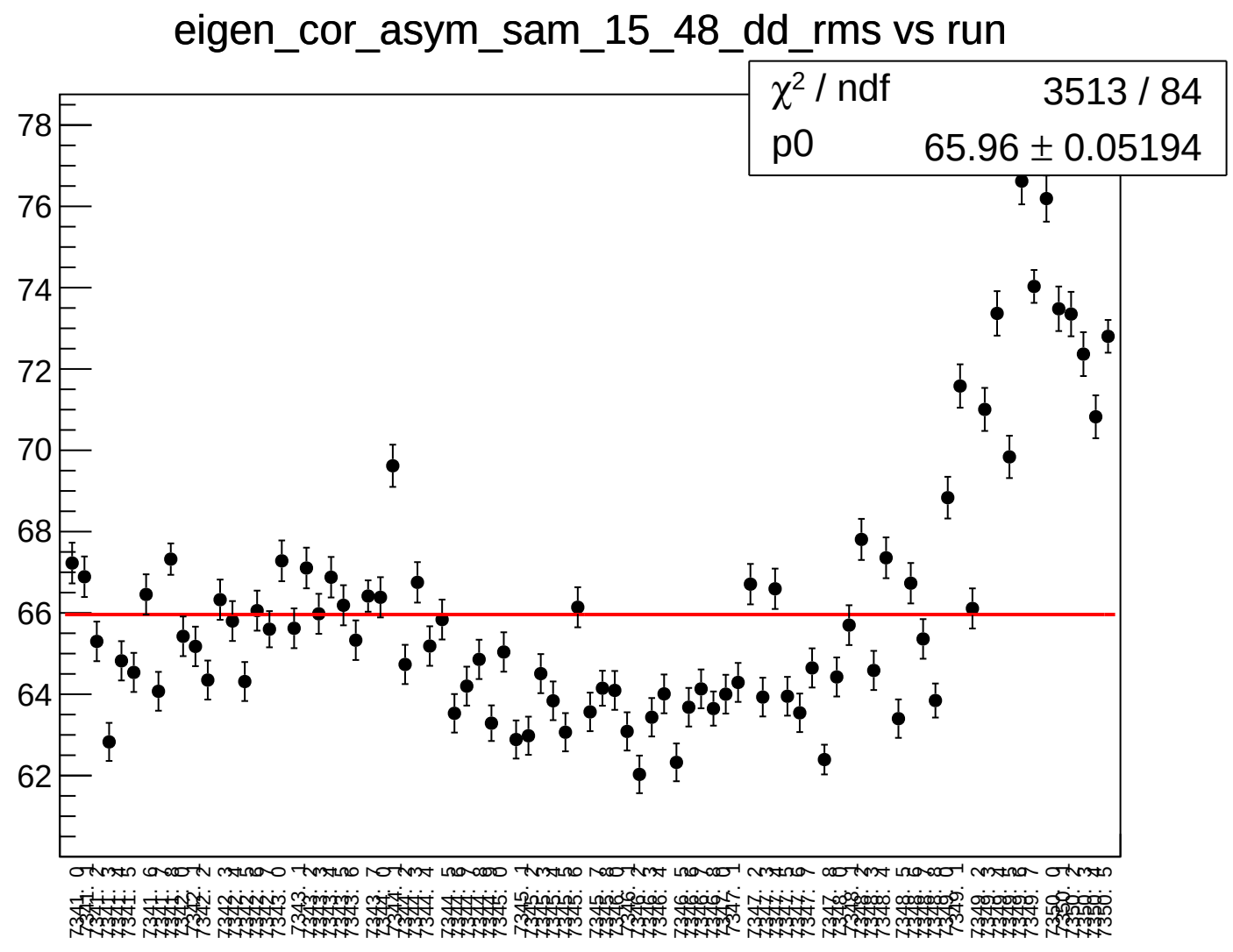

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3513 / 84
p0 65.96 ± 0.05194
78
76
74
72
70
68
66
64
62

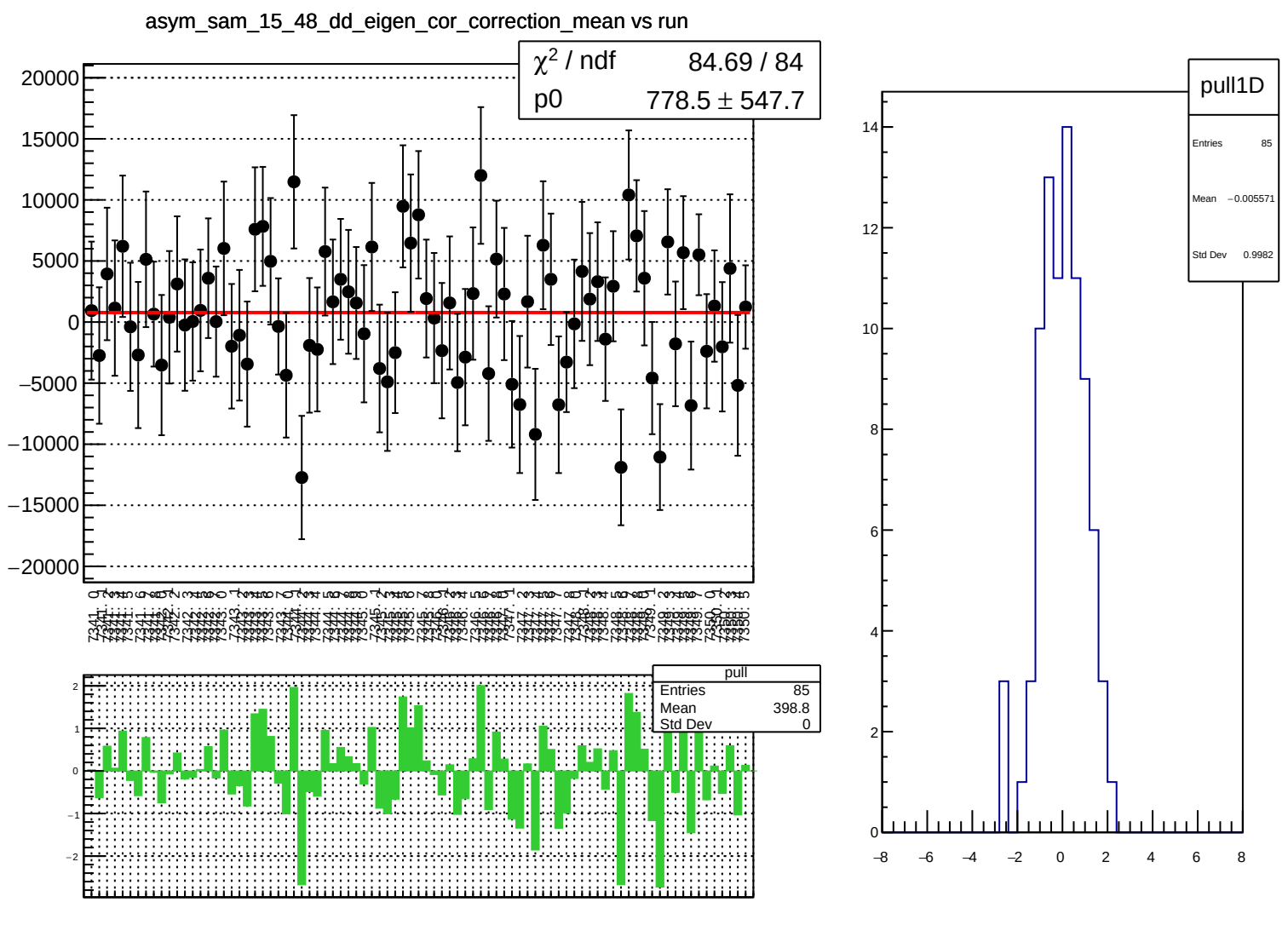

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 84.69 / 84
p0 778.5 ± 547.7
pull
Entries 85
Mean 398.8
Std Dev 0
pull1D
Entries 85
Mean −0.005571
Std Dev 0.9982

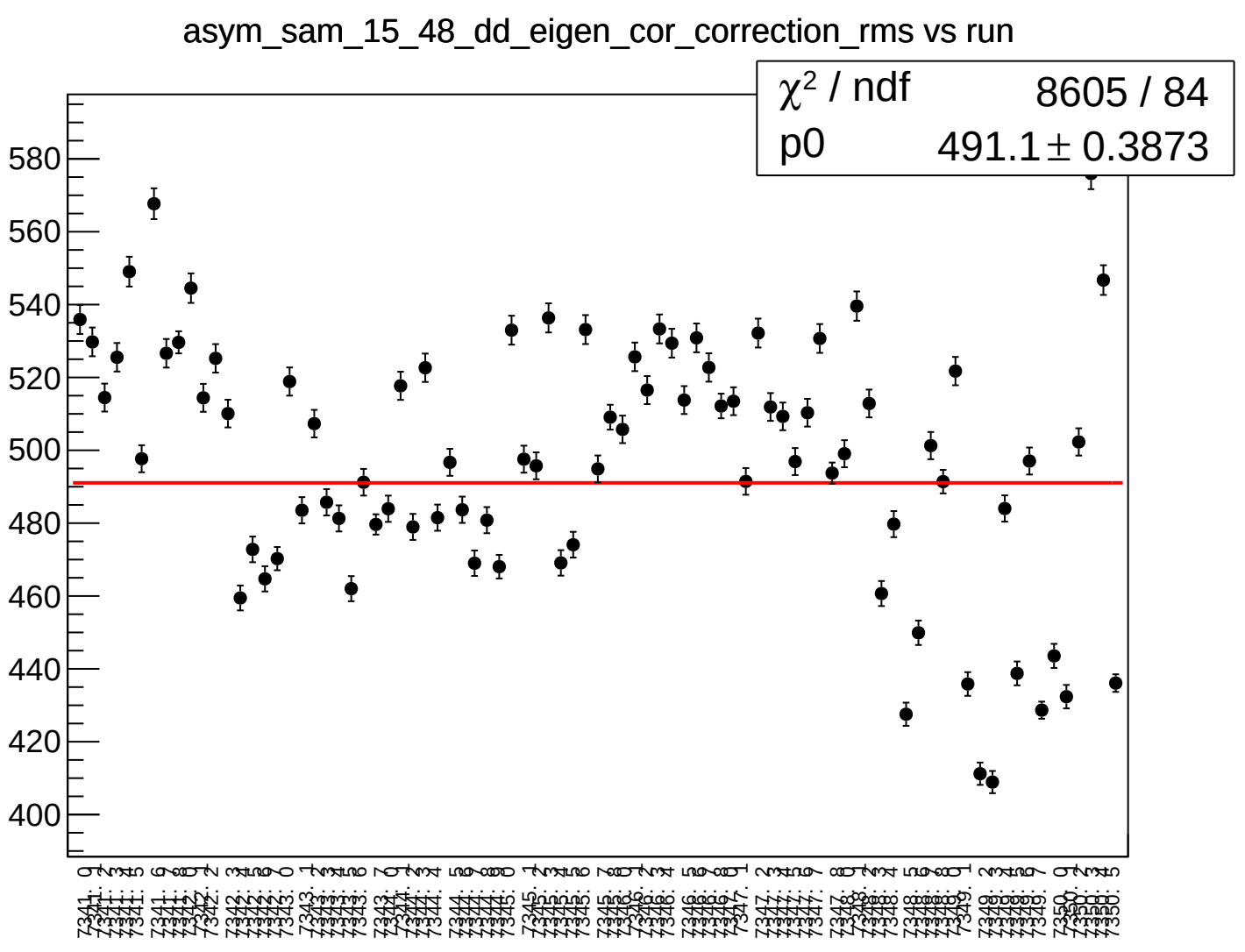

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 8605 / 84
p0 491.1 ± 0.3873
580
560
540
520
500
480
460
440
420
400

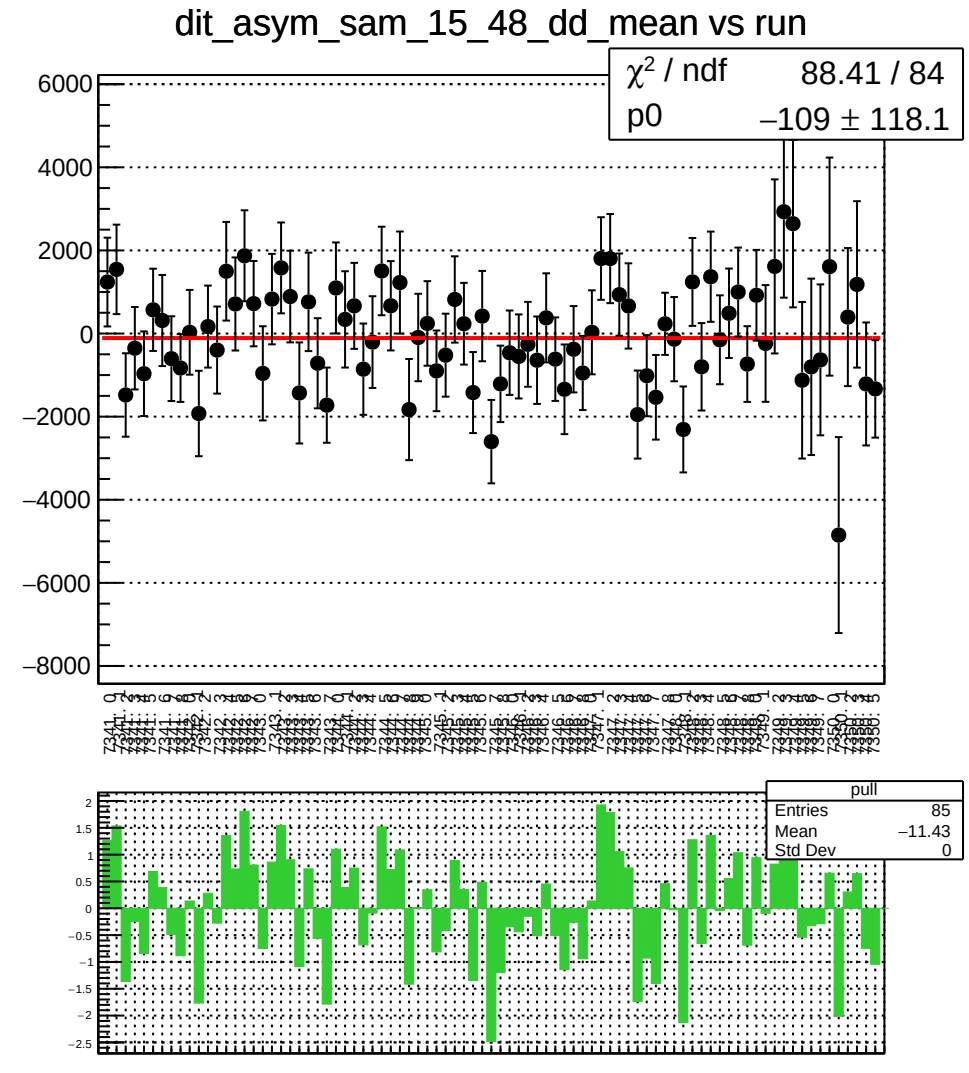

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.82 / 84
p0 −131.6 ± 73.45
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −520.3
Std Dev 0
2
1
0
−1

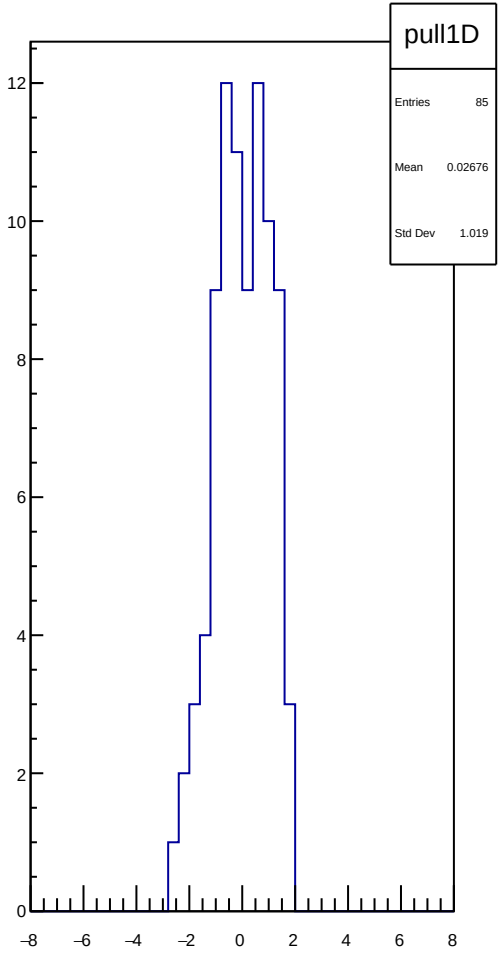

pull1D
Entries 85
Mean 0.002314
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

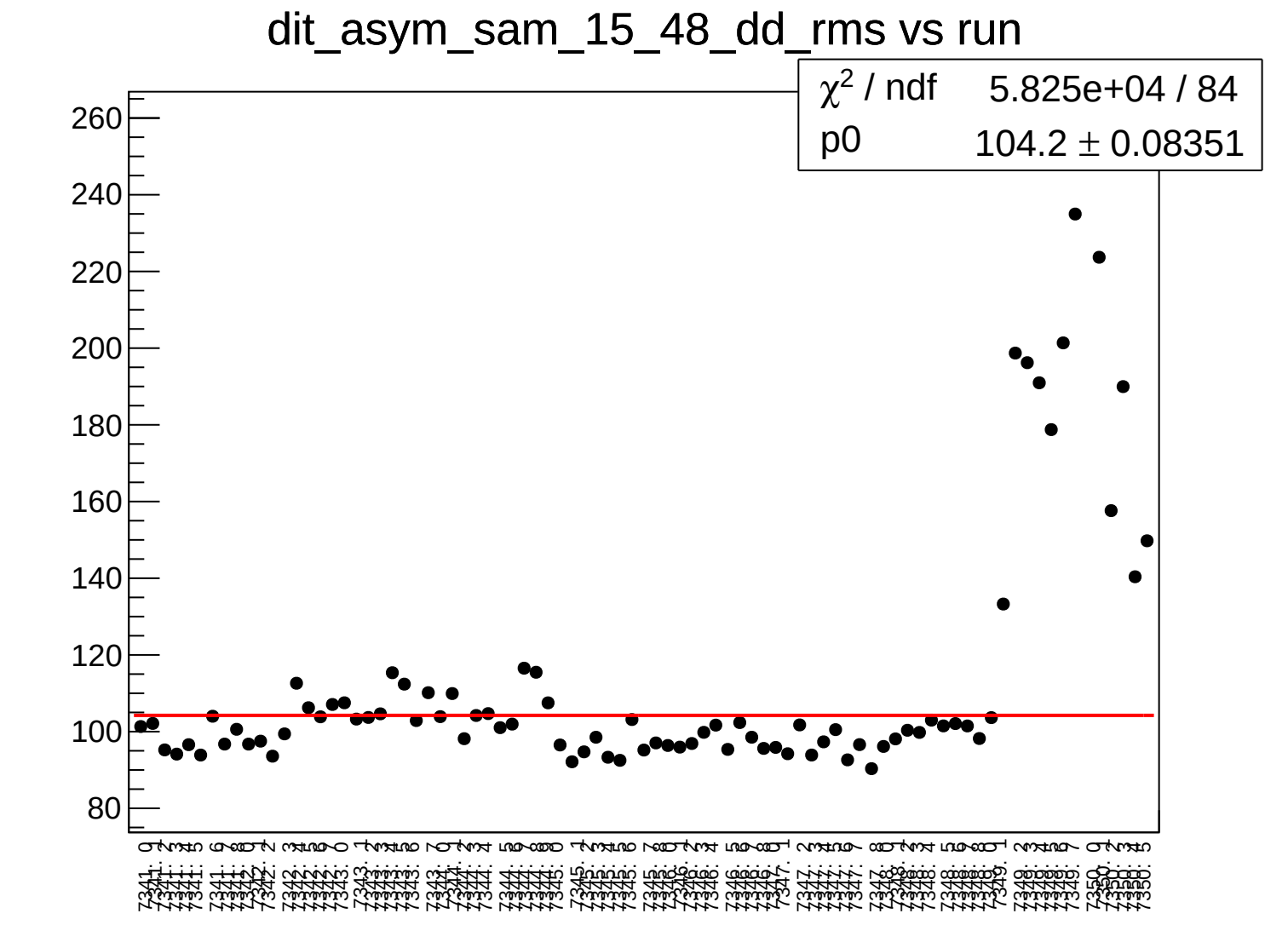

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 3513 / 84
p0 65.96 ± 0.05194
78
76
74
72
70
68
66
64
62

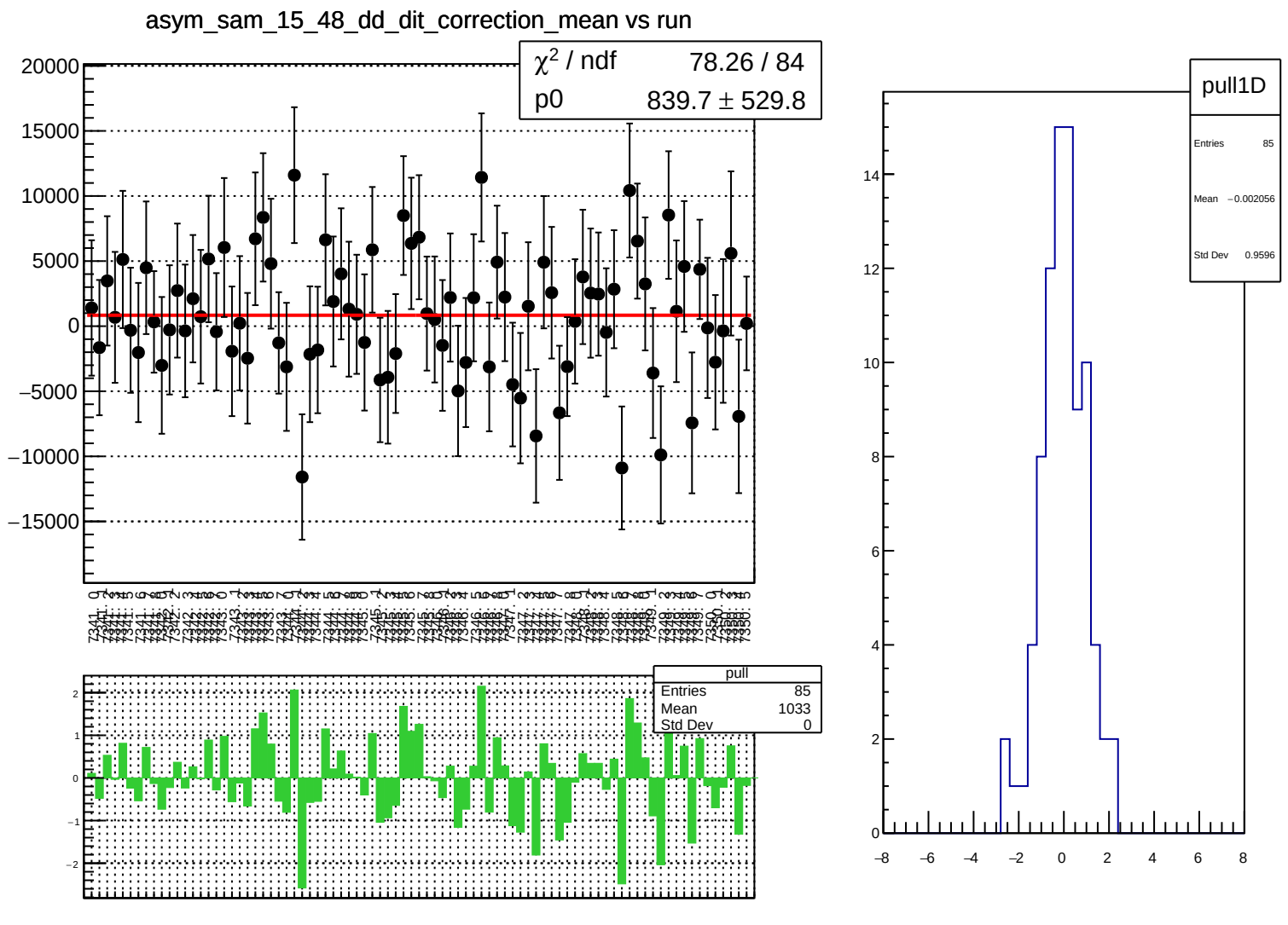

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.69 / 84
p0 778.5 ± 547.7
pull
Entries 85
Mean 398.8
Std Dev 0
pull1D
Entries 85
Mean −0.005571
Std Dev 0.9982

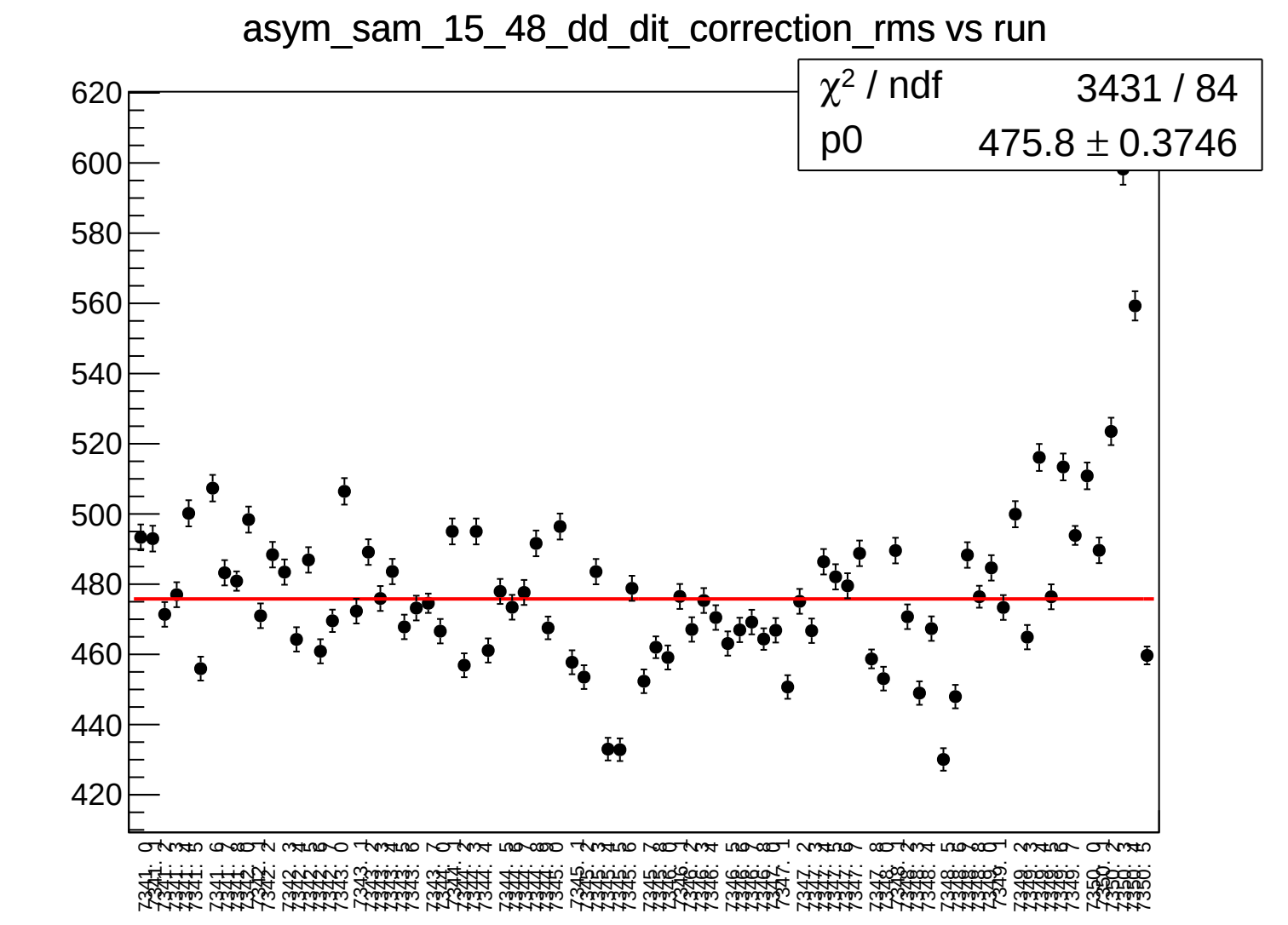

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8605 / 84
p0 491.1 ± 0.3873
580
560
540
520
500
480
460
440
420
400

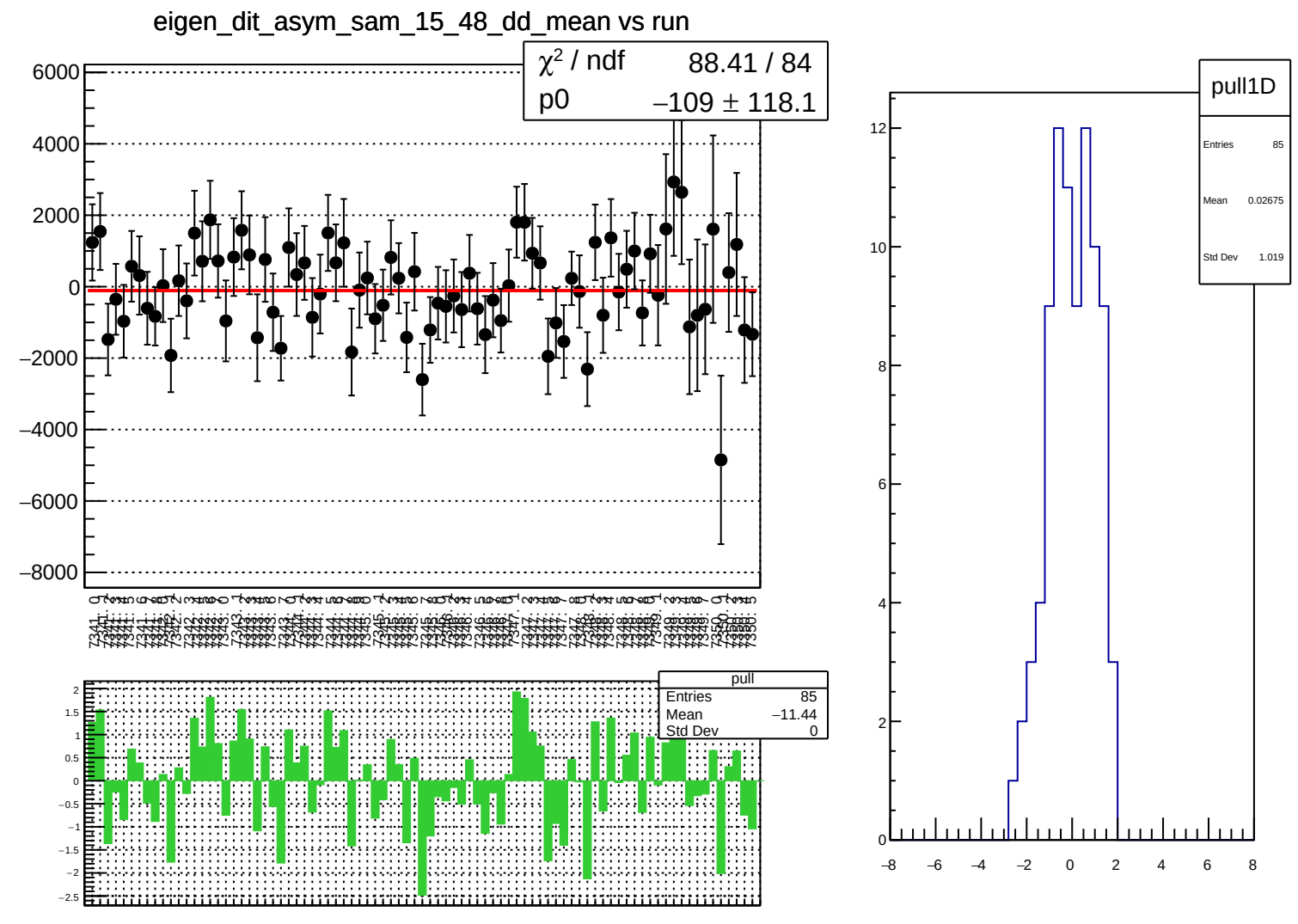

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 88.41 / 84
p0 −109 ± 118.1
pull
Entries 85
Mean −11.43
Std Dev 0

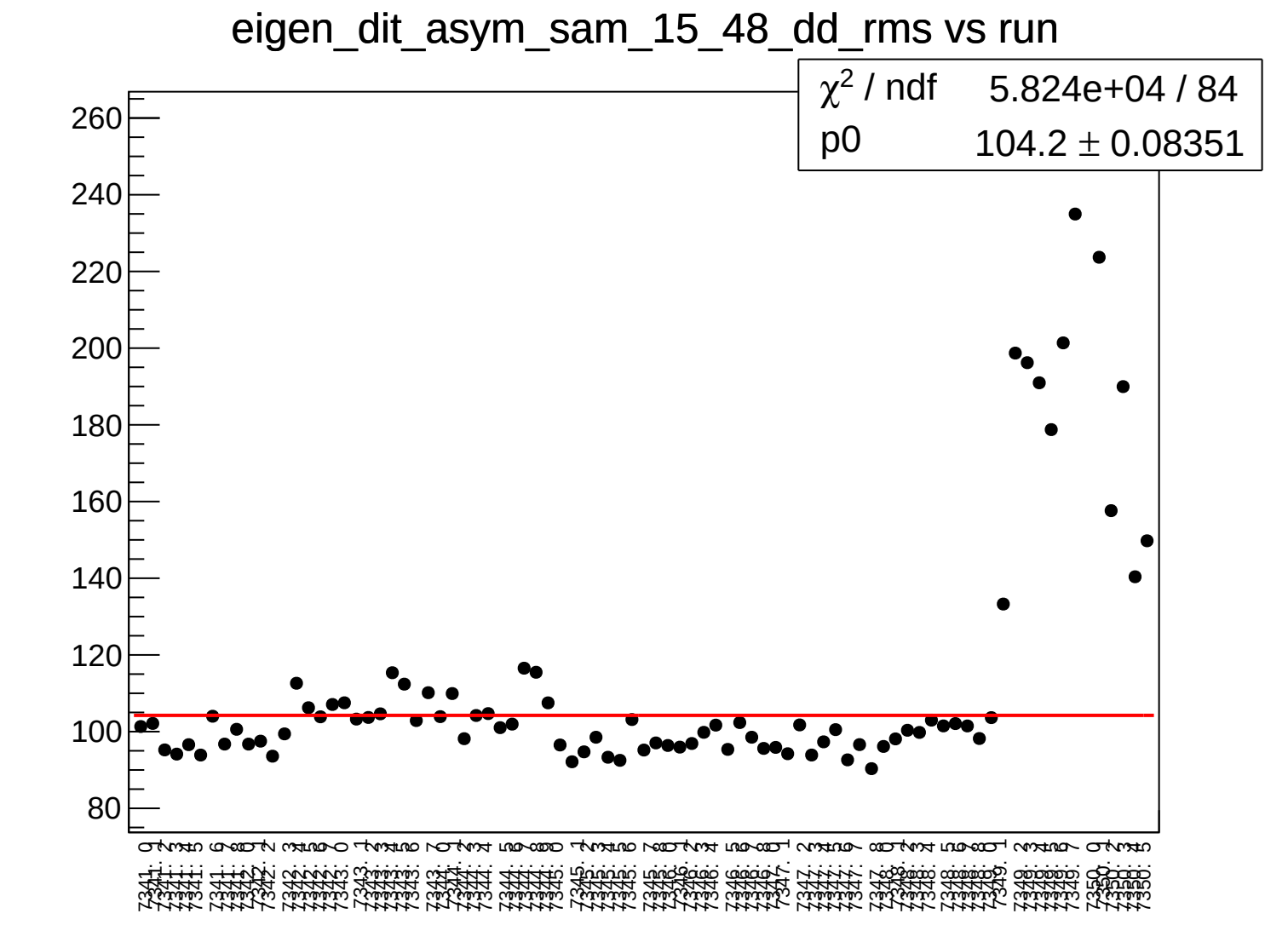

pull1D
Entries 85
Mean 0.02676
Std Dev 1.019

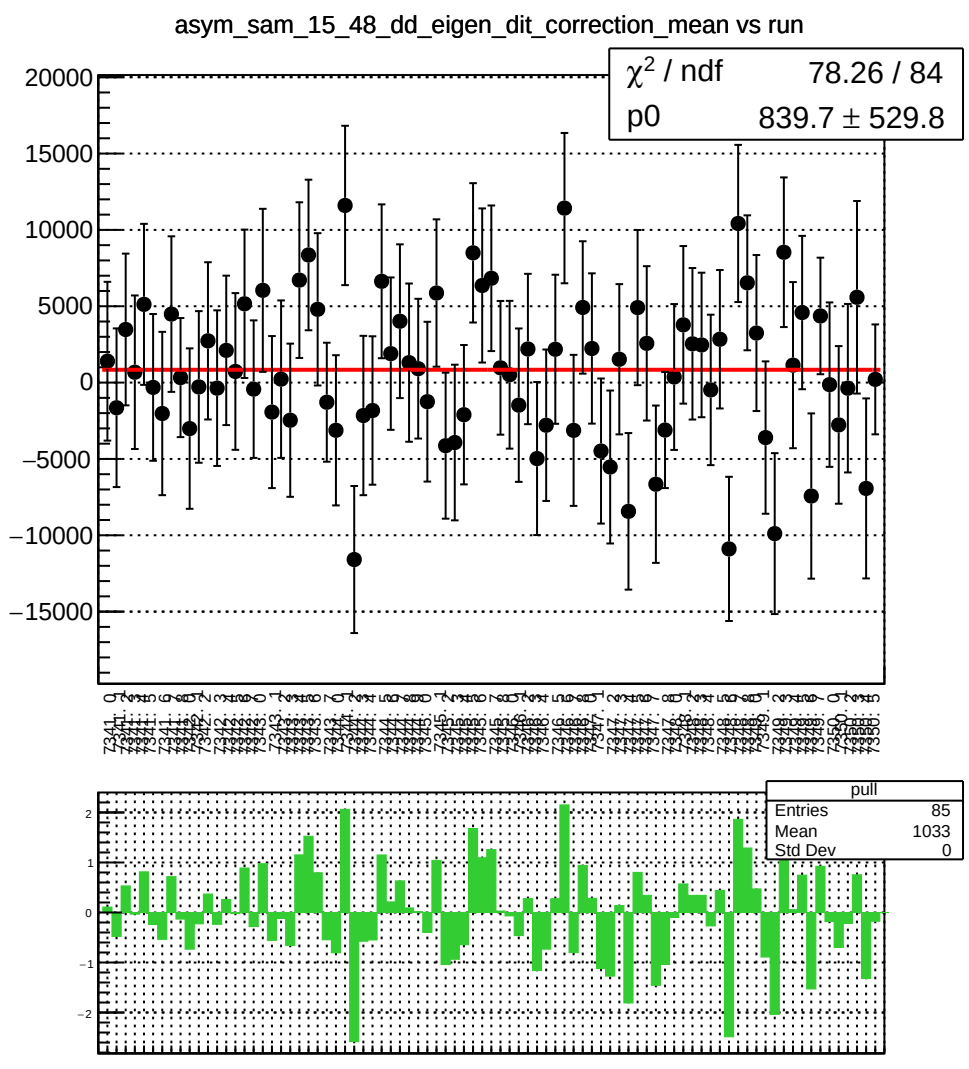

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 5.825e+04 / 84
p0 104.2 ± 0.08351
260
240
220
200
180
160
140
120
100
80

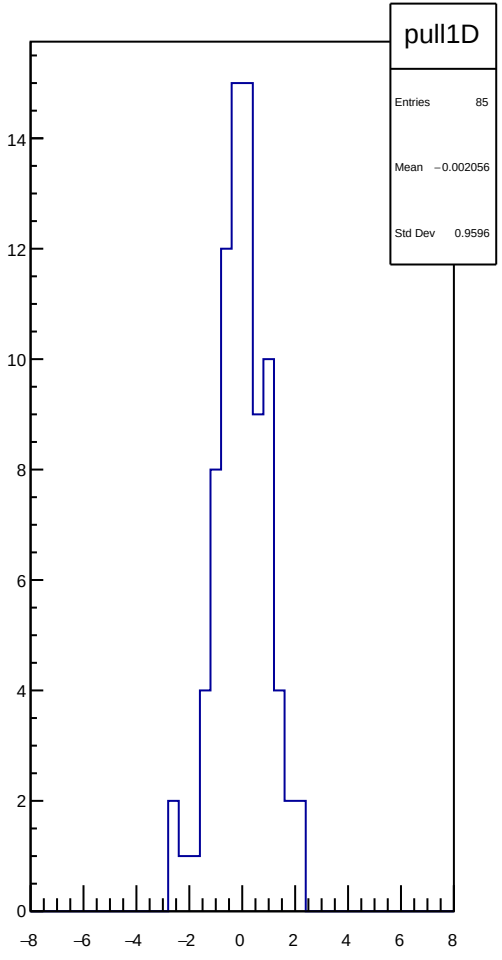

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 78.26 / 84
p0 839.7 ± 529.8
pull
Entries 85
Mean 1033
Std Dev 0
pull1D
Entries 85
Mean −0.002056
Std Dev 0.9596

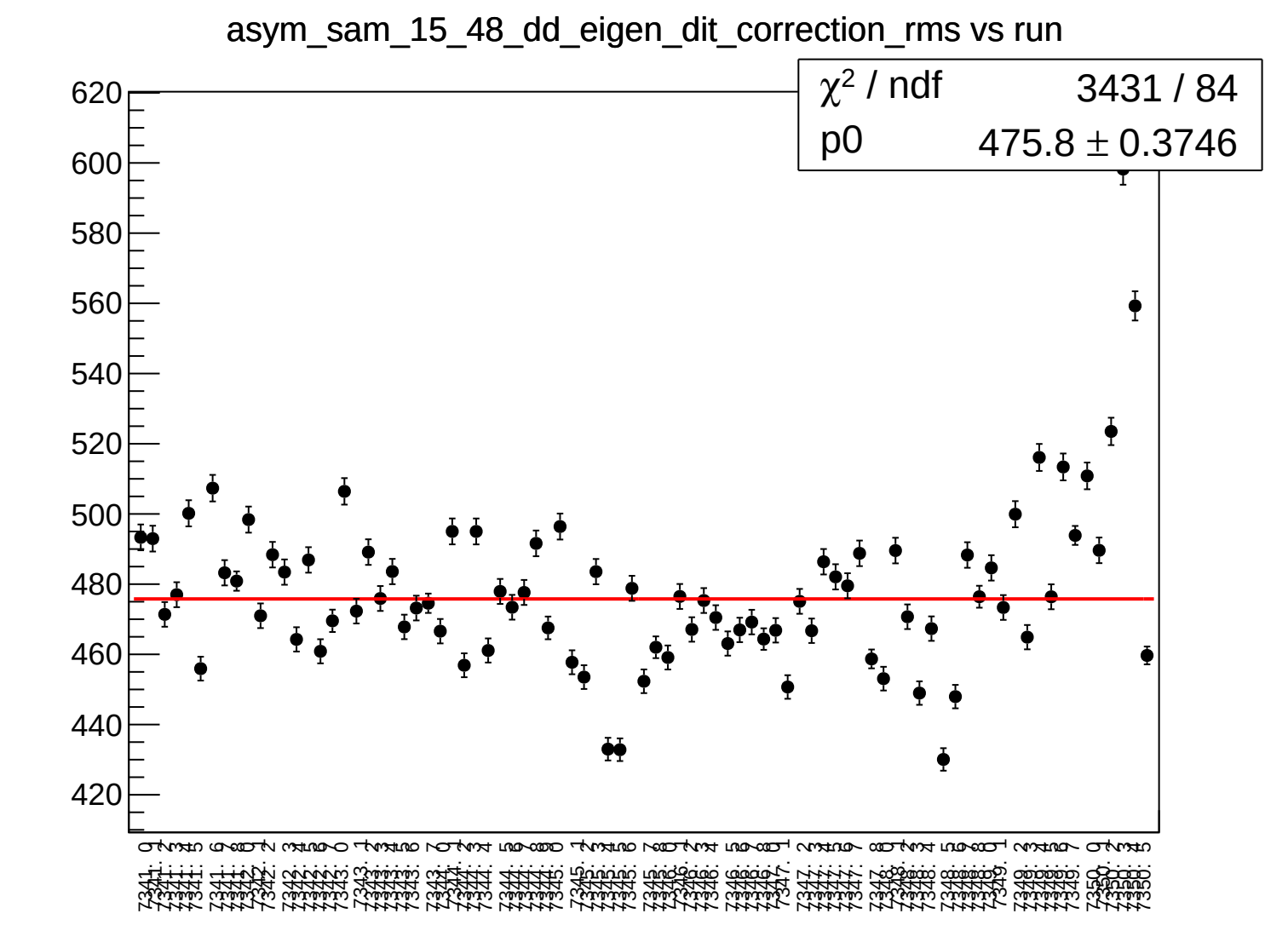

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3431 / 84
p0 475.8 ± 0.3746
620
600
580
560
540
520
500
480
460
440
420

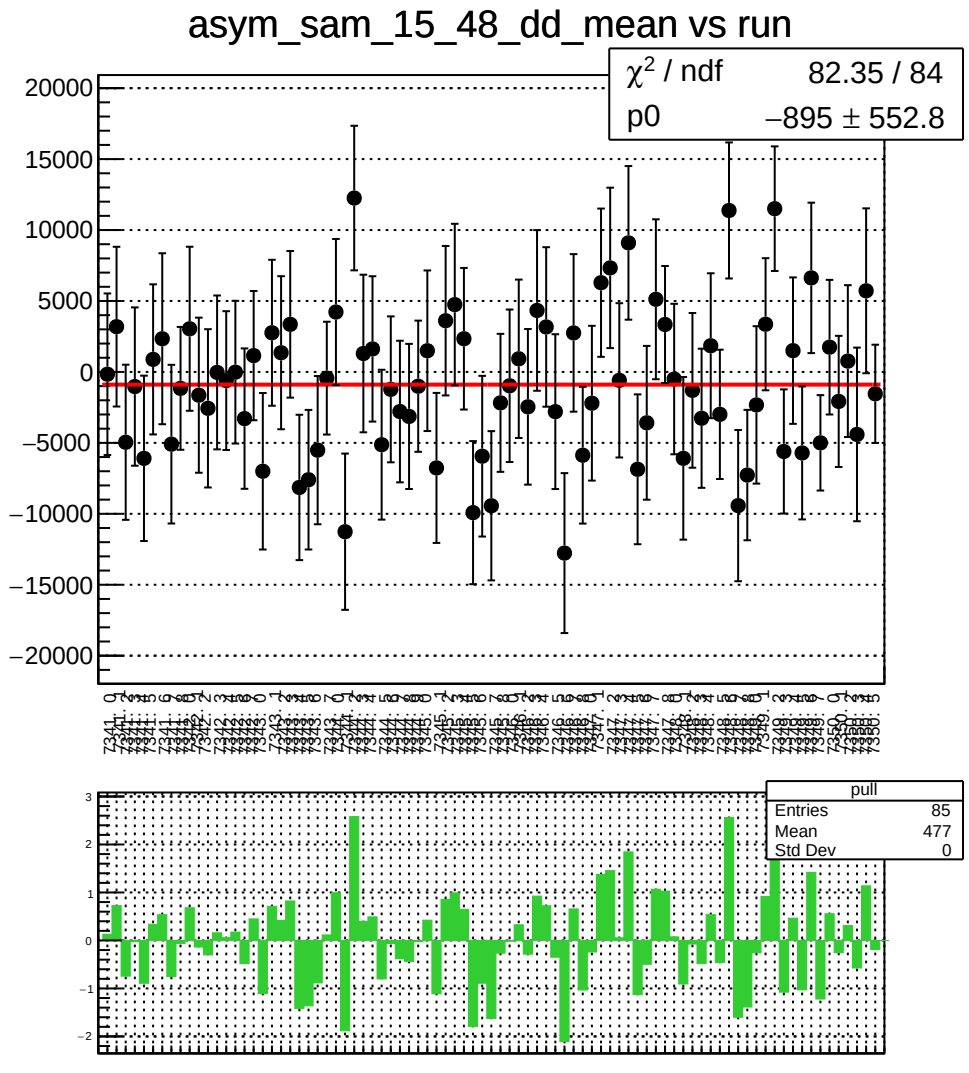

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 88.41 / 84
p0 −109 ± 118.1
pull
Entries 85
Mean −11.44
Std Dev 0
pull1D
Entries 85
Mean 0.02675
Std Dev 1.019

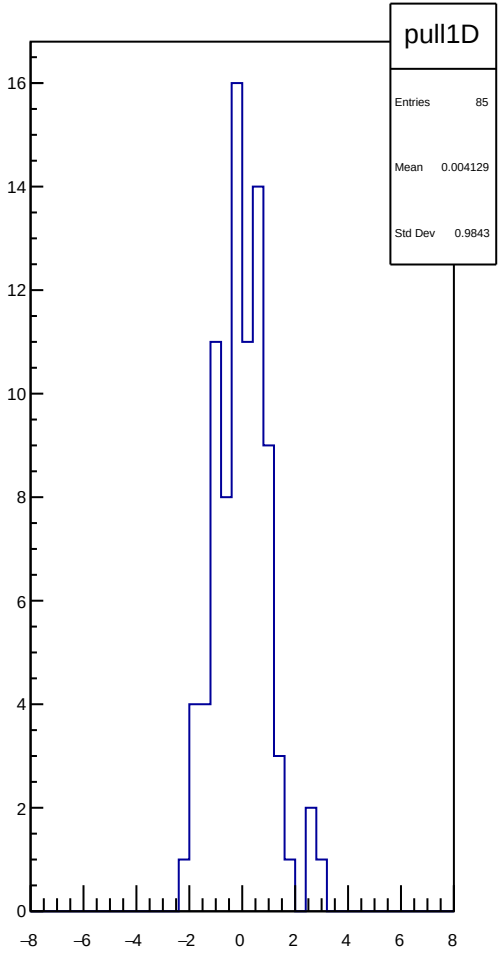

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 5.824e+04 / 84
p0 104.2 ± 0.08351
260
240
220
200
180
160
140
120
100
80

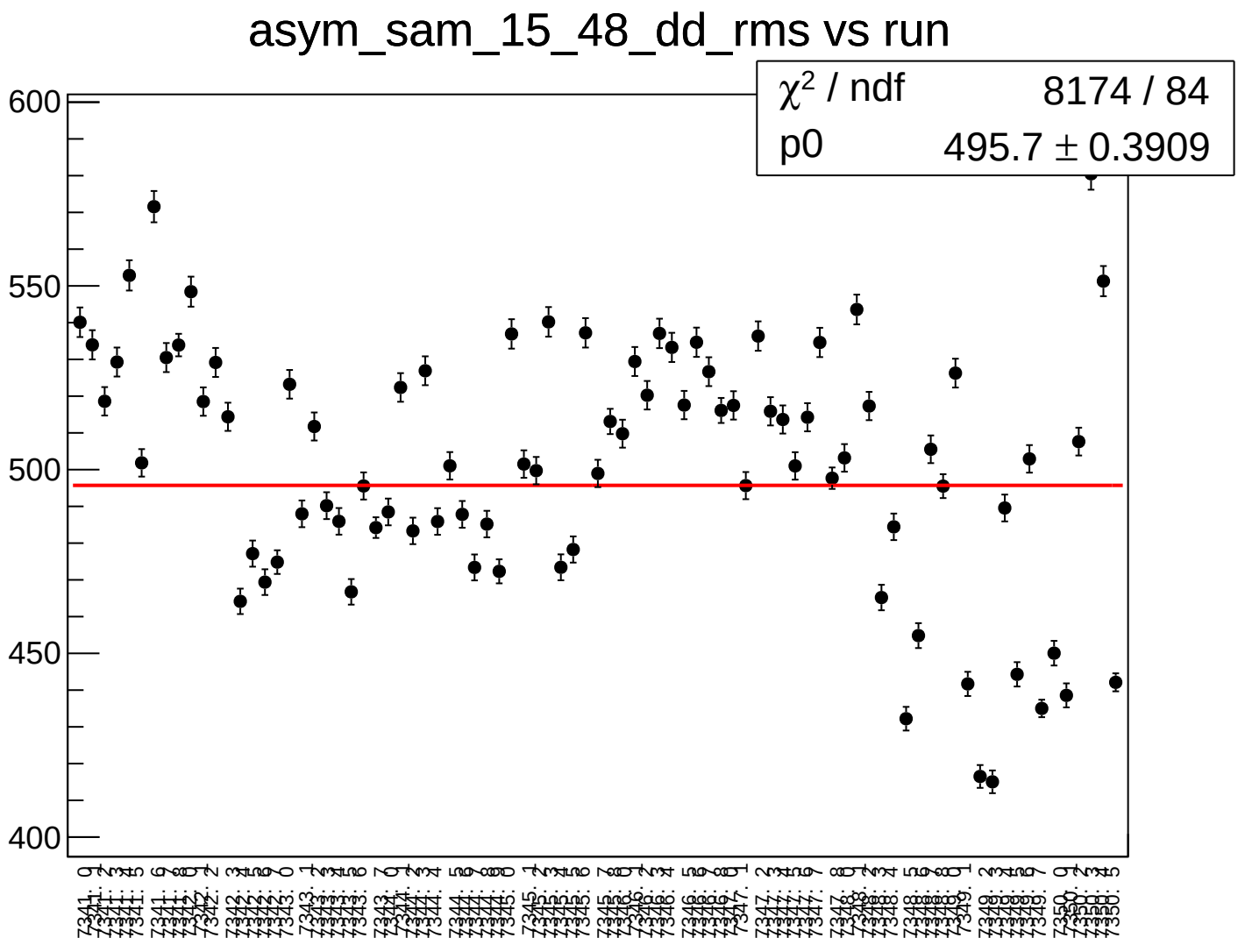

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.26 / 84
p0 839.7 ± 529.8
pull
Entries 85
Mean 1033
Std Dev 0

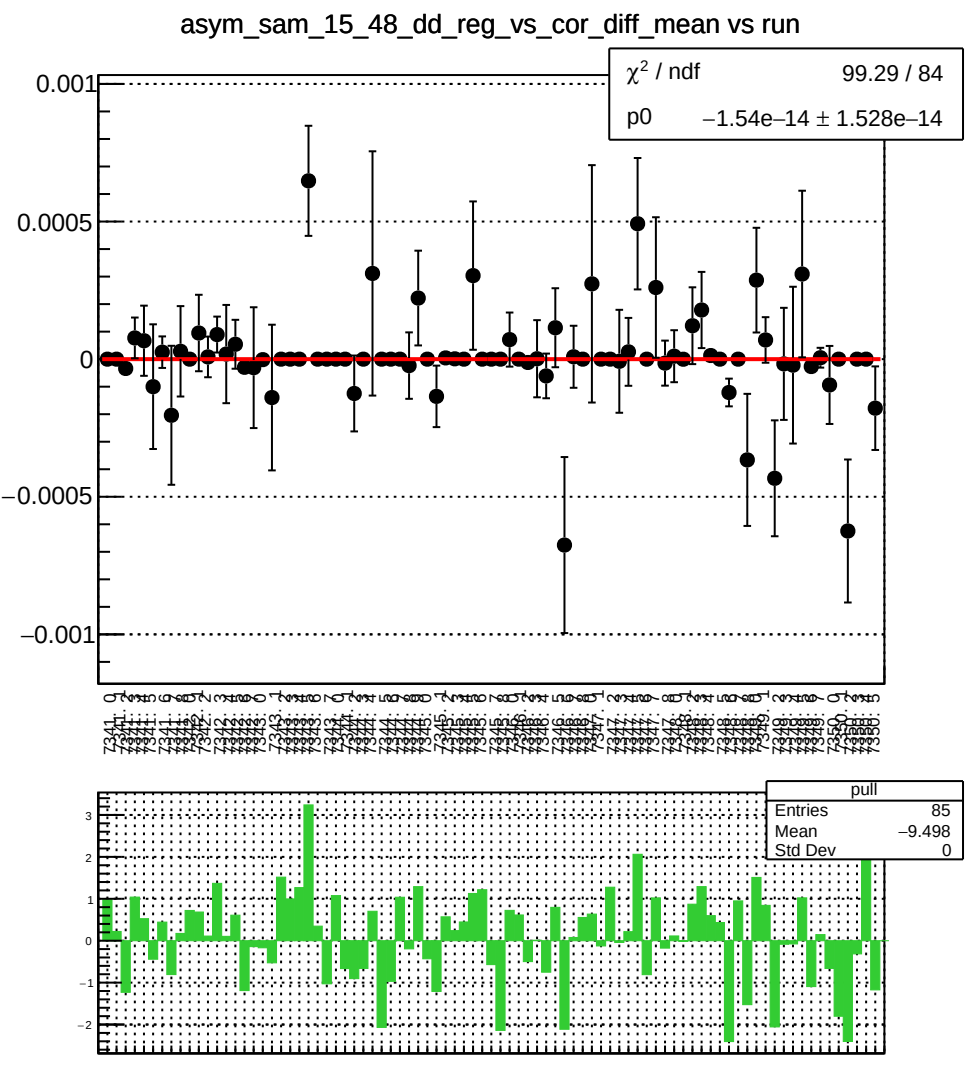

pull1D
Entries 85
Mean −0.002056
Std Dev 0.9596

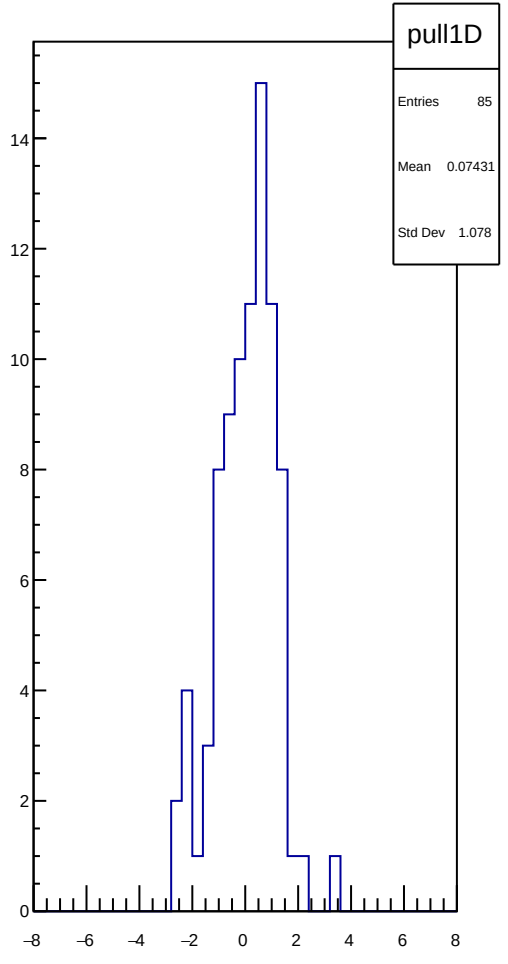

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3431 / 84
p0 475.8 ± 0.3746
620
600
580
560
540
520
500
480
460
440
420

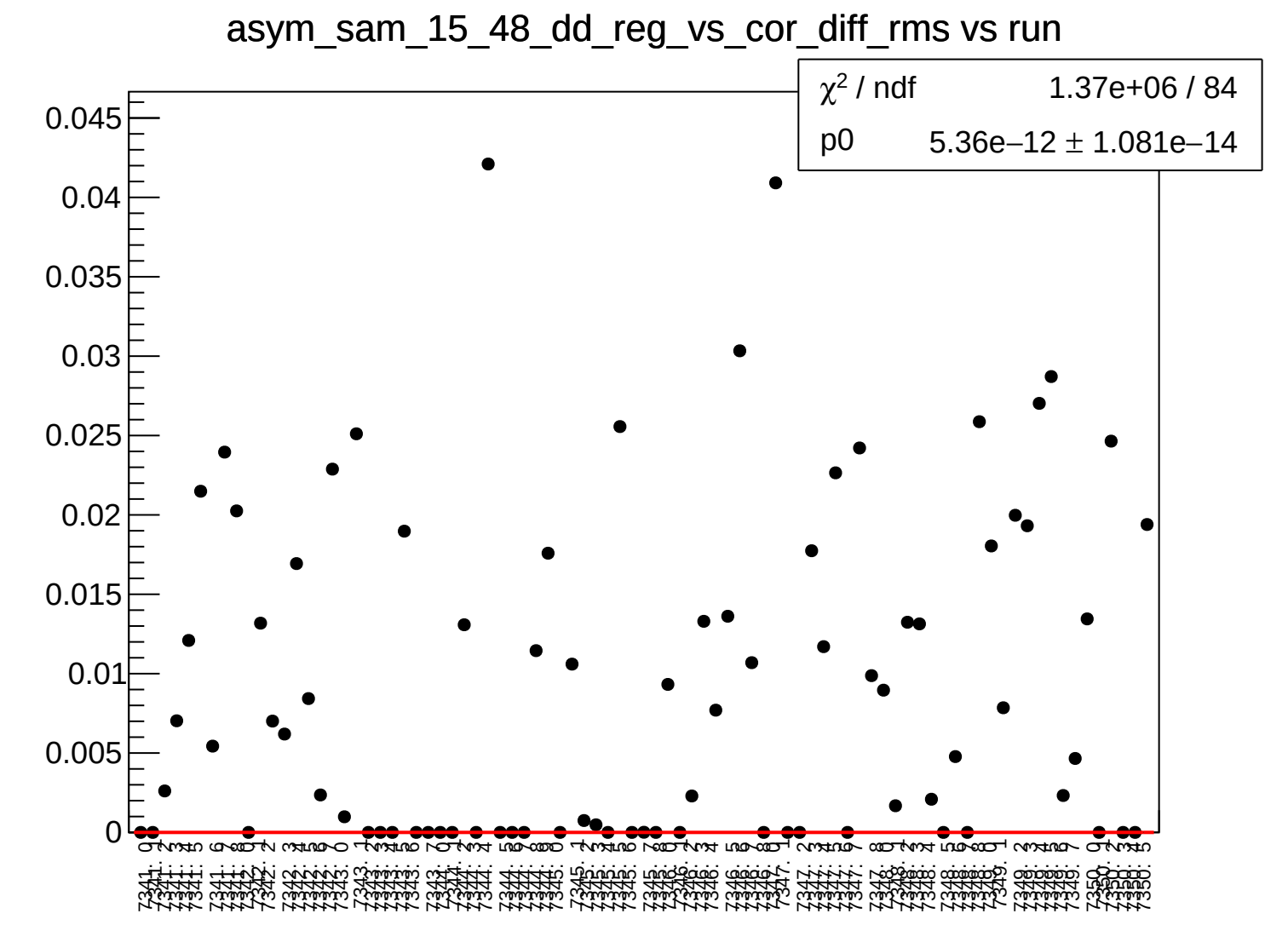

asym_sam_15_48_dd_mean vs run
χ² / ndf 82.35 / 84
p0 −895 ± 552.8
pull
Entries 85
Mean 477
Std Dev 0

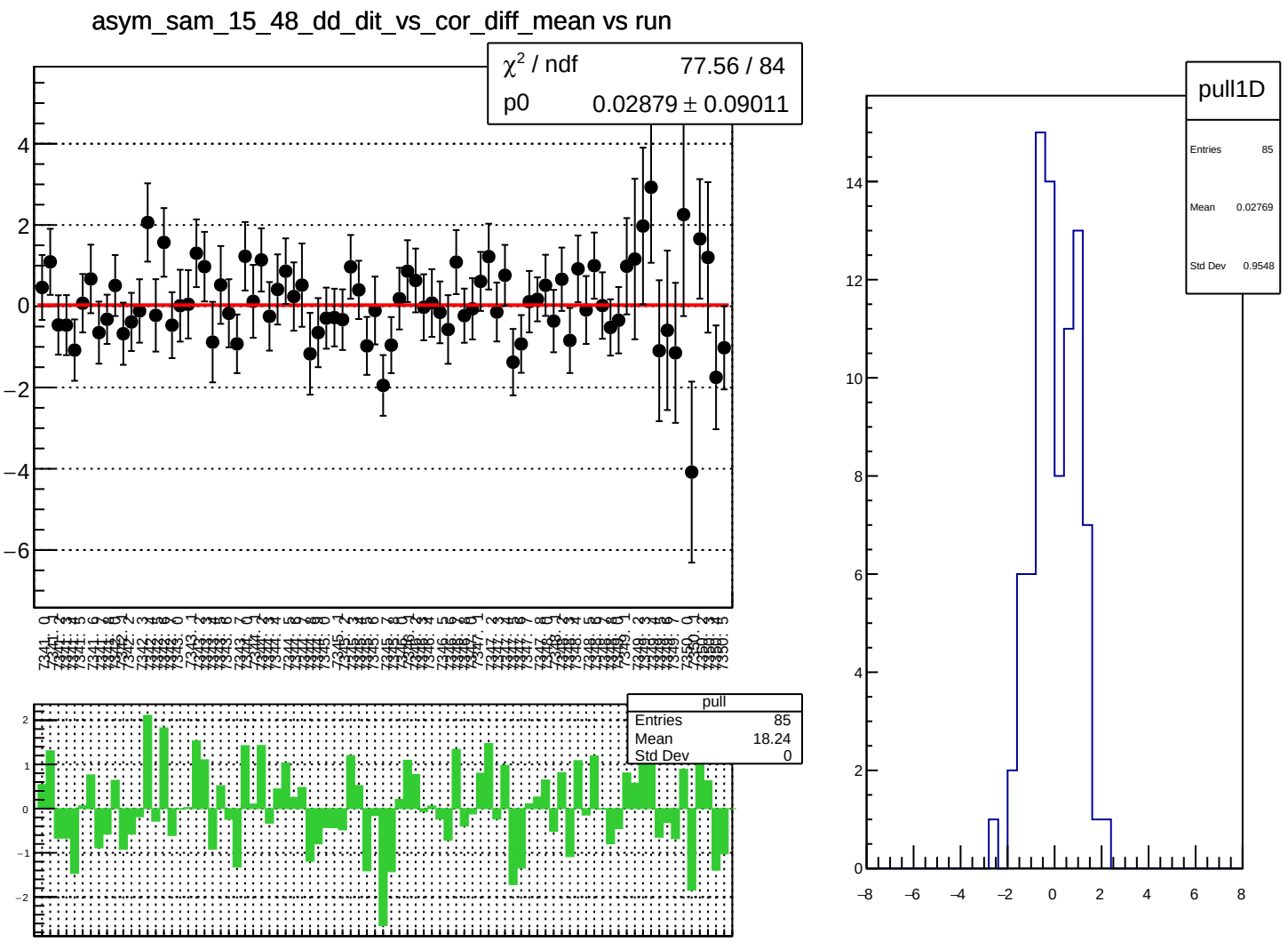

pull1D
Entries 85
Mean 0.004129
Std Dev 0.9843

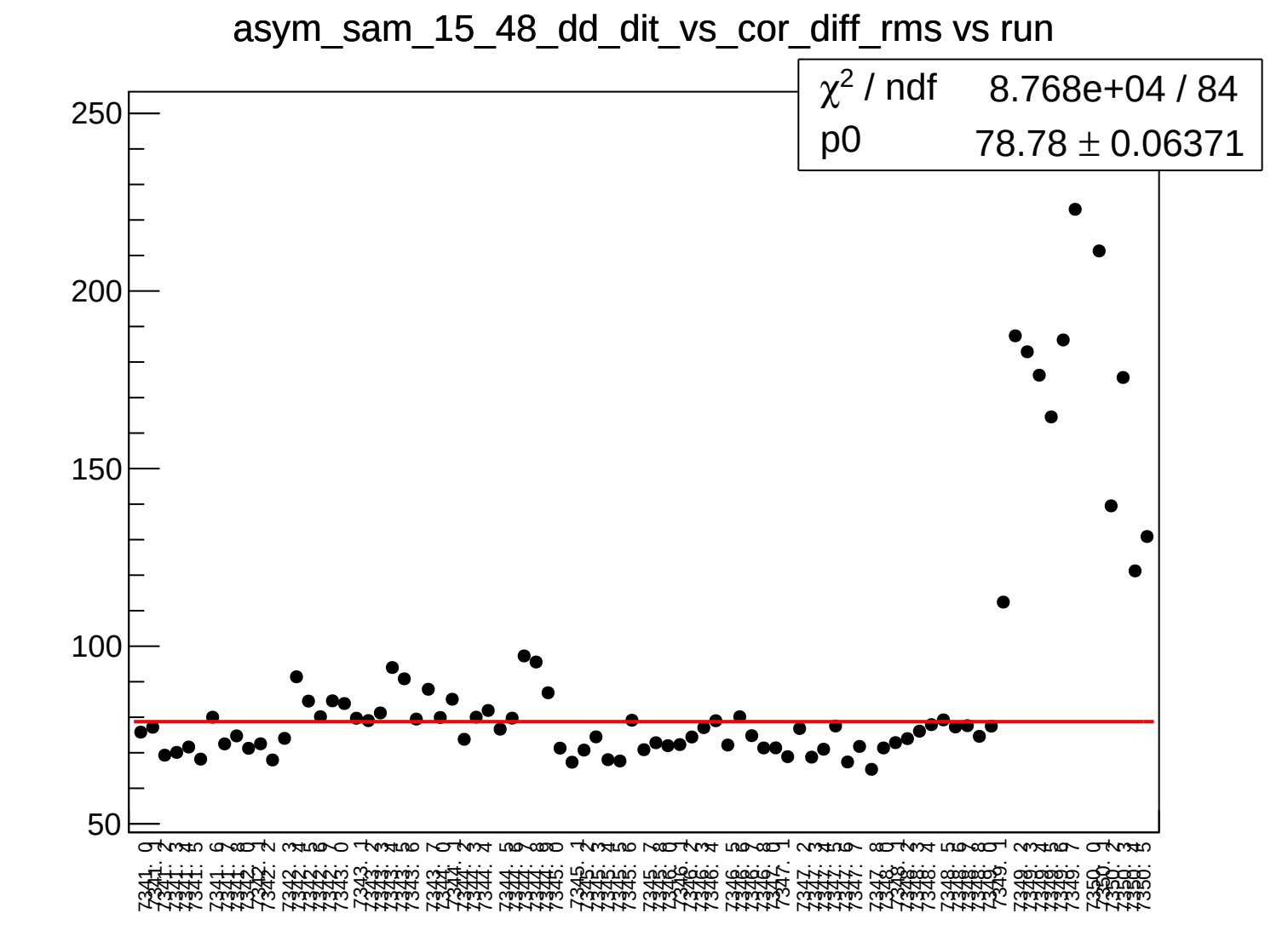

asym_sam_15_48_dd_rms vs run
χ² / ndf 8174 / 84
p0 495.7 ± 0.3909
600
550
500
450
400

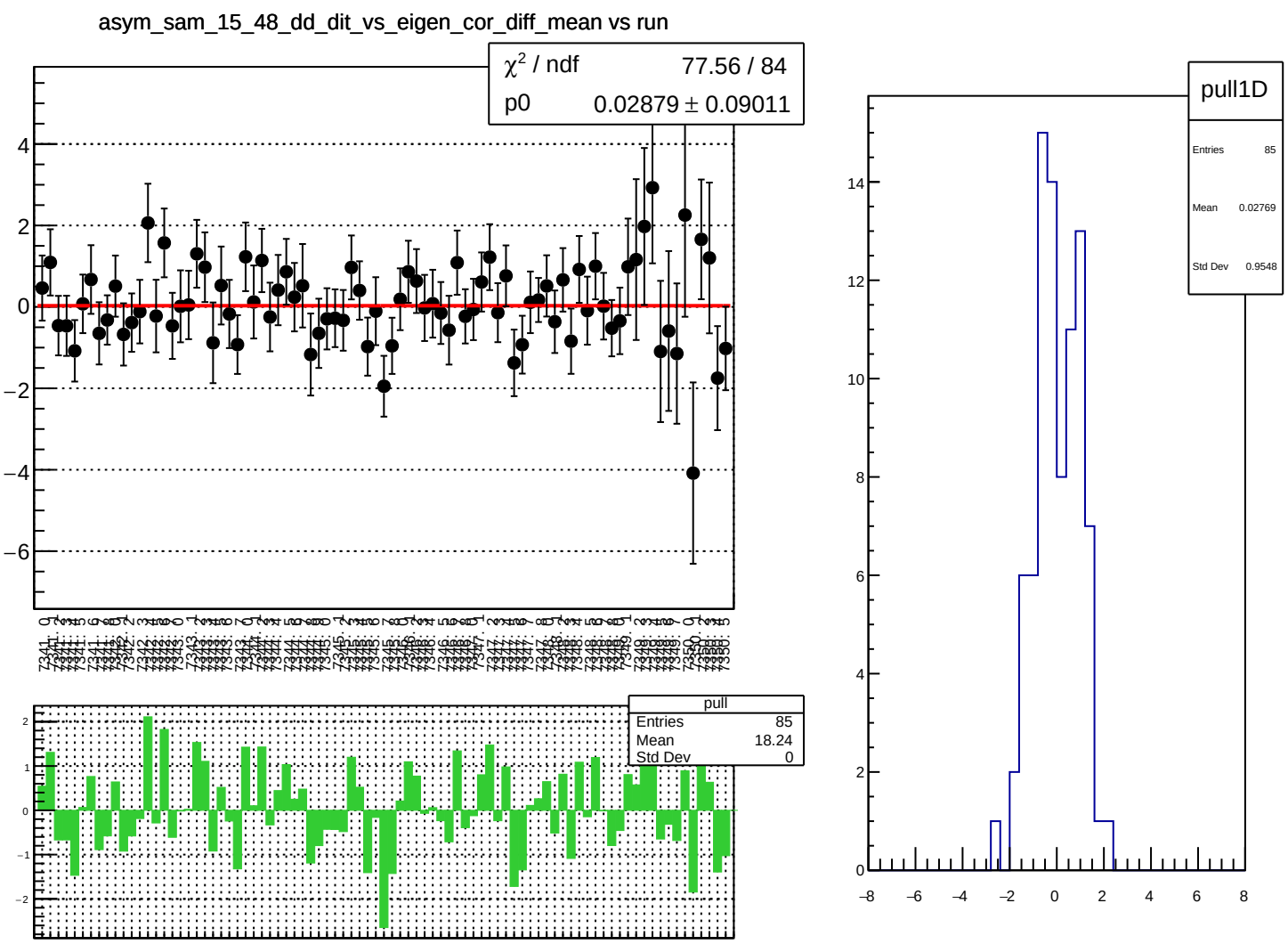

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.29 / 84
p0 −1.54e−14 ± 1.528e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean −9.498
Std Dev 0
3
2
1
0
−1
−2

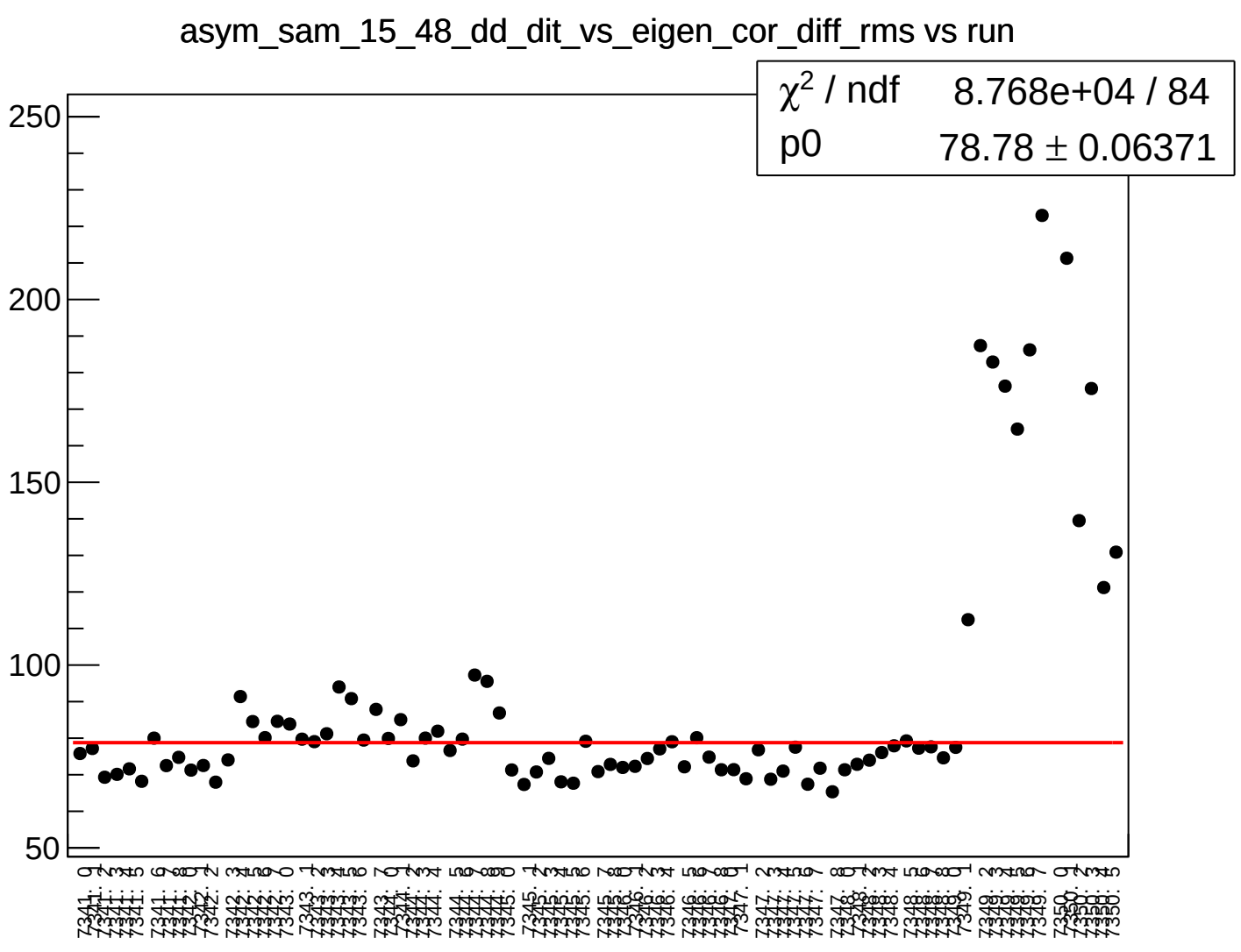

pull1D
Entries 85
Mean 0.07431
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

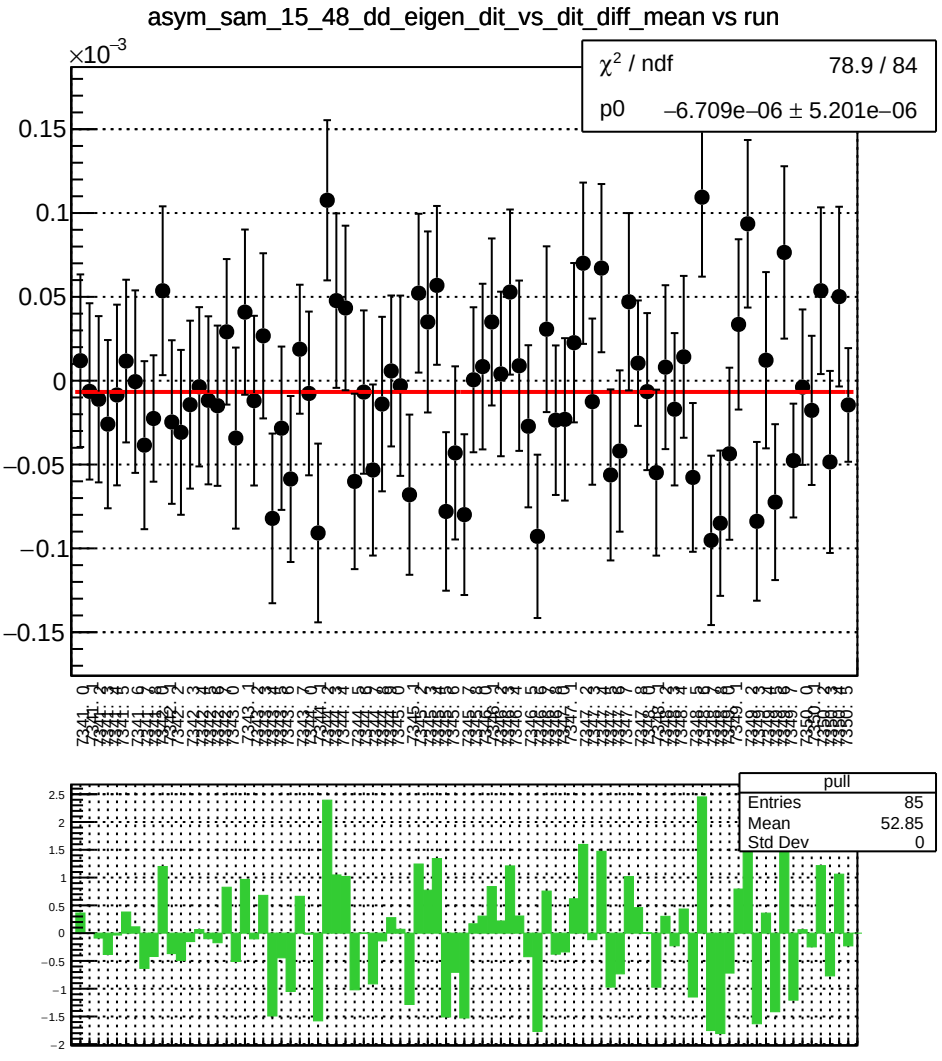

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.37e+06 / 84
p0 5.36e−12 ± 1.081e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

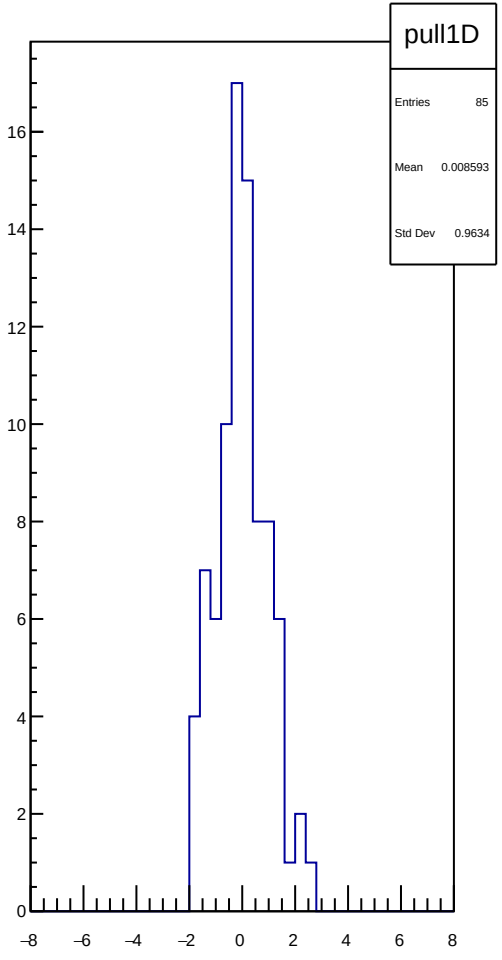

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.56 / 84
p0 0.02879 ± 0.09011
pull
Entries 85
Mean 18.24
Std Dev 0
pull1D
Entries 85
Mean 0.02769
Std Dev 0.9548

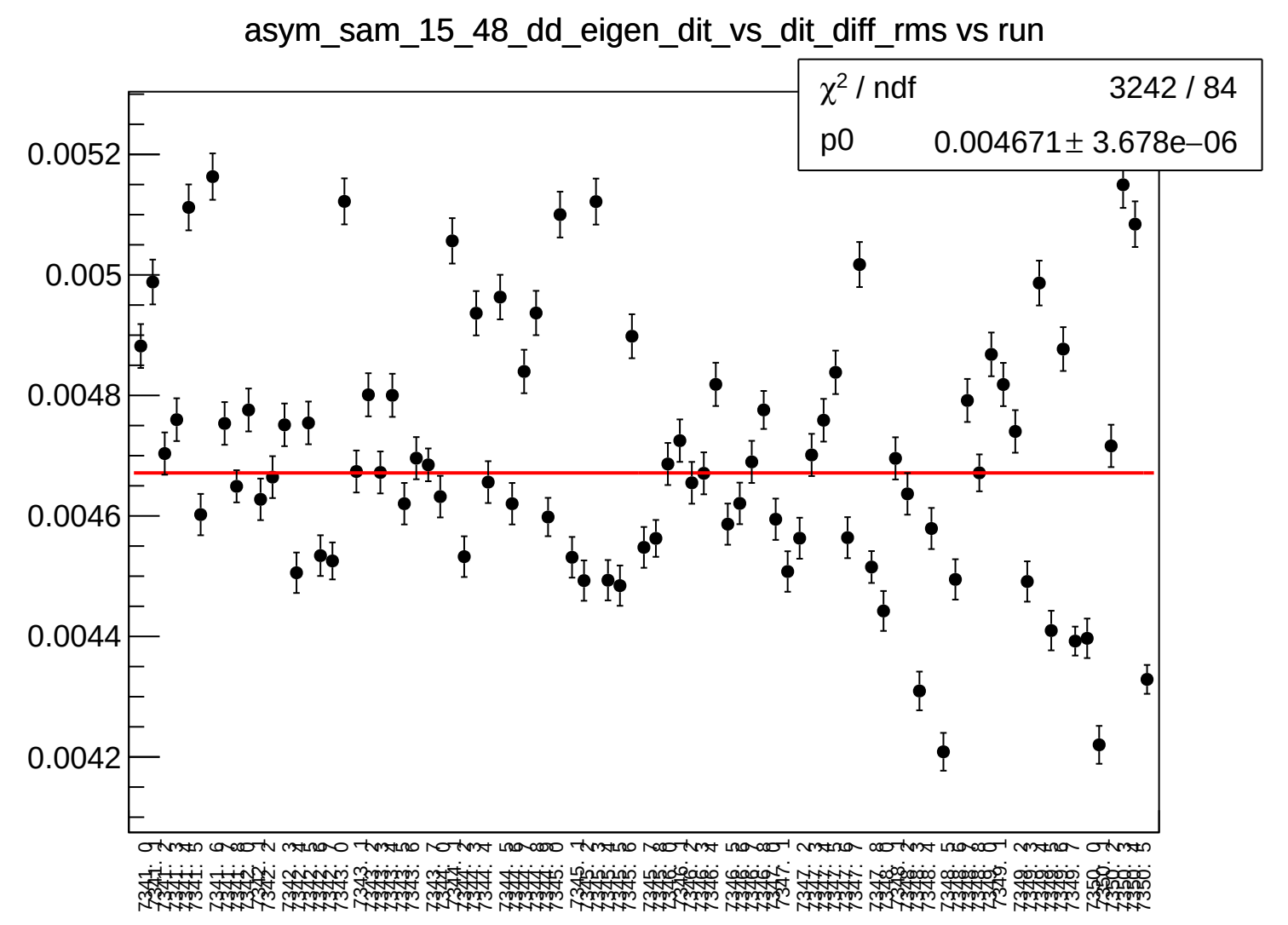

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.768e+04 / 84
p0 78.78 ± 0.06371
250
200
150
100
50

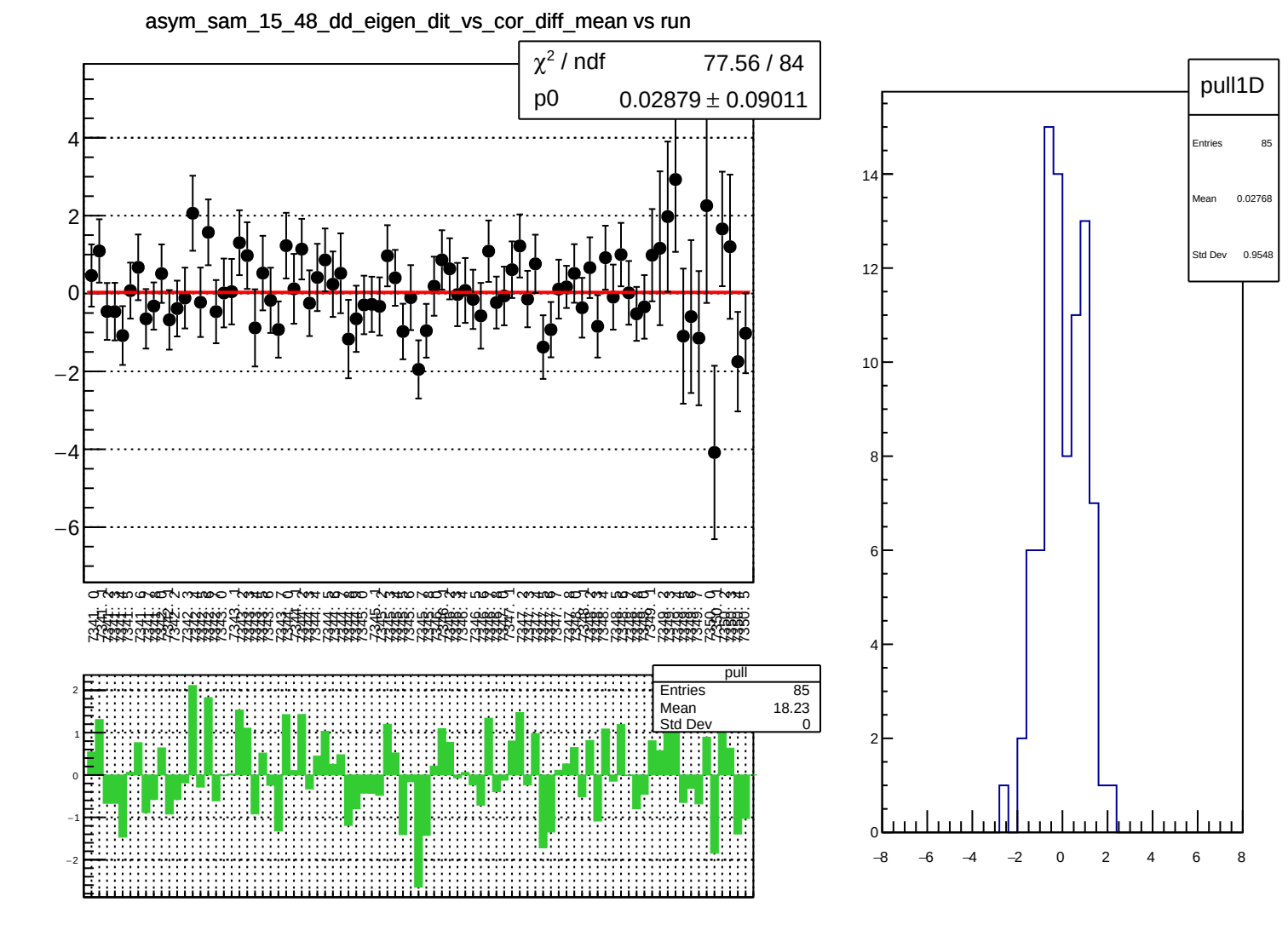

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.56 / 84
p0 0.02879 ± 0.09011
pull
Entries 85
Mean 18.24
Std Dev 0
pull1D
Entries 85
Mean 0.02769
Std Dev 0.9548

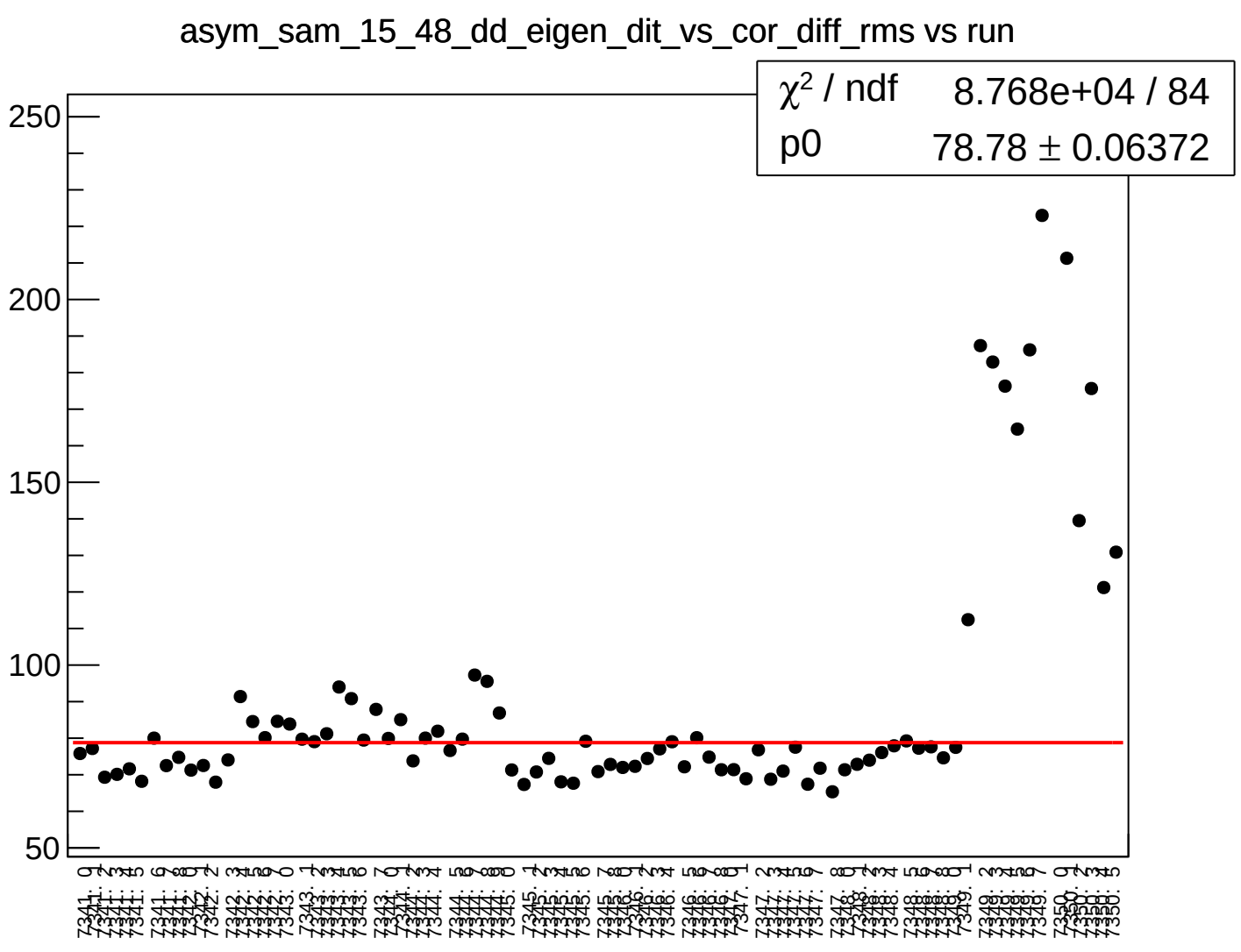

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.768e+04 / 84
p0 78.78 ± 0.06371
250
200
150
100
50

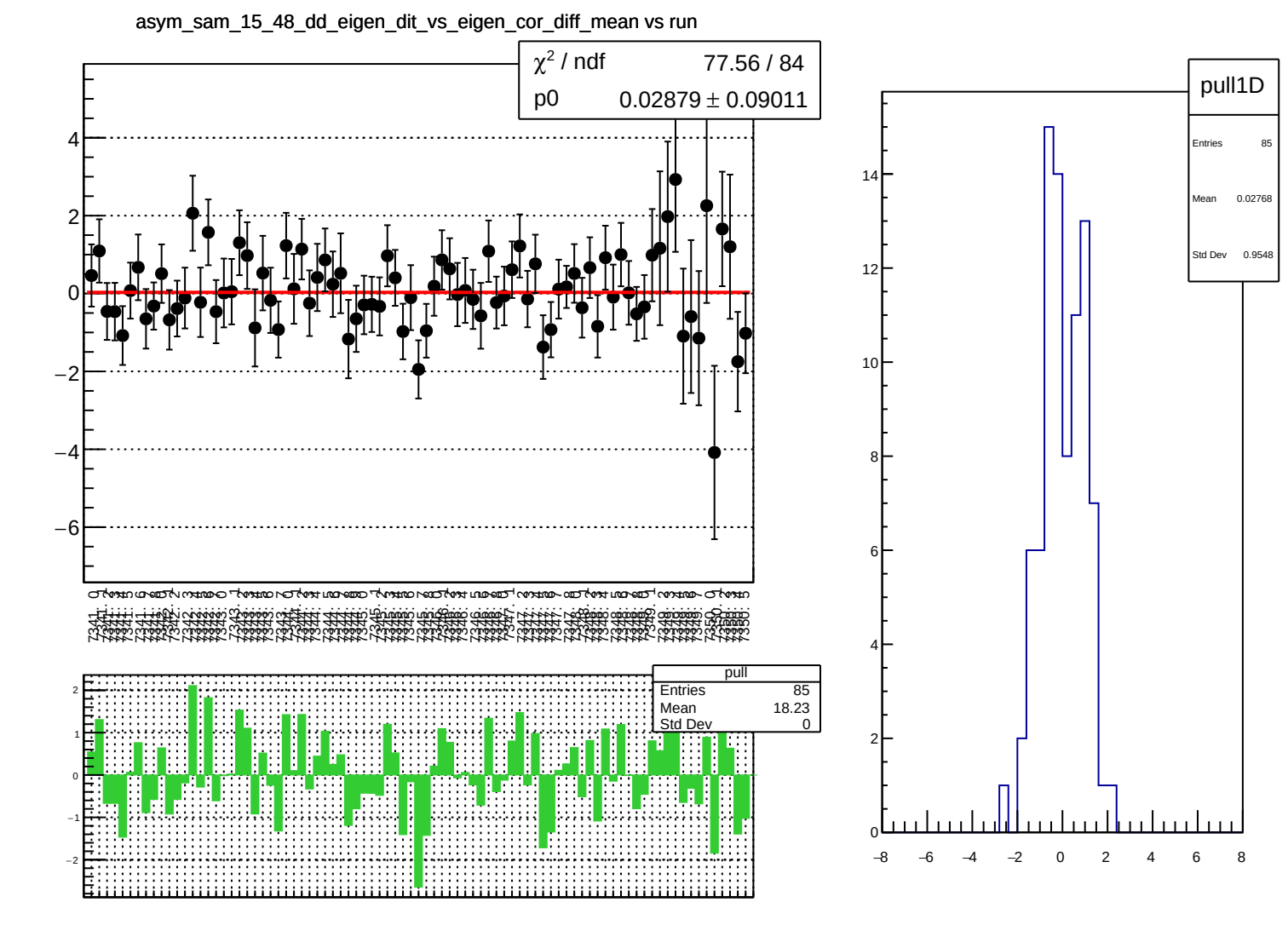

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.9 / 84
p0 −6.709e−06 ± 5.201e−06
pull
Entries 85
Mean 52.85
Std Dev 0

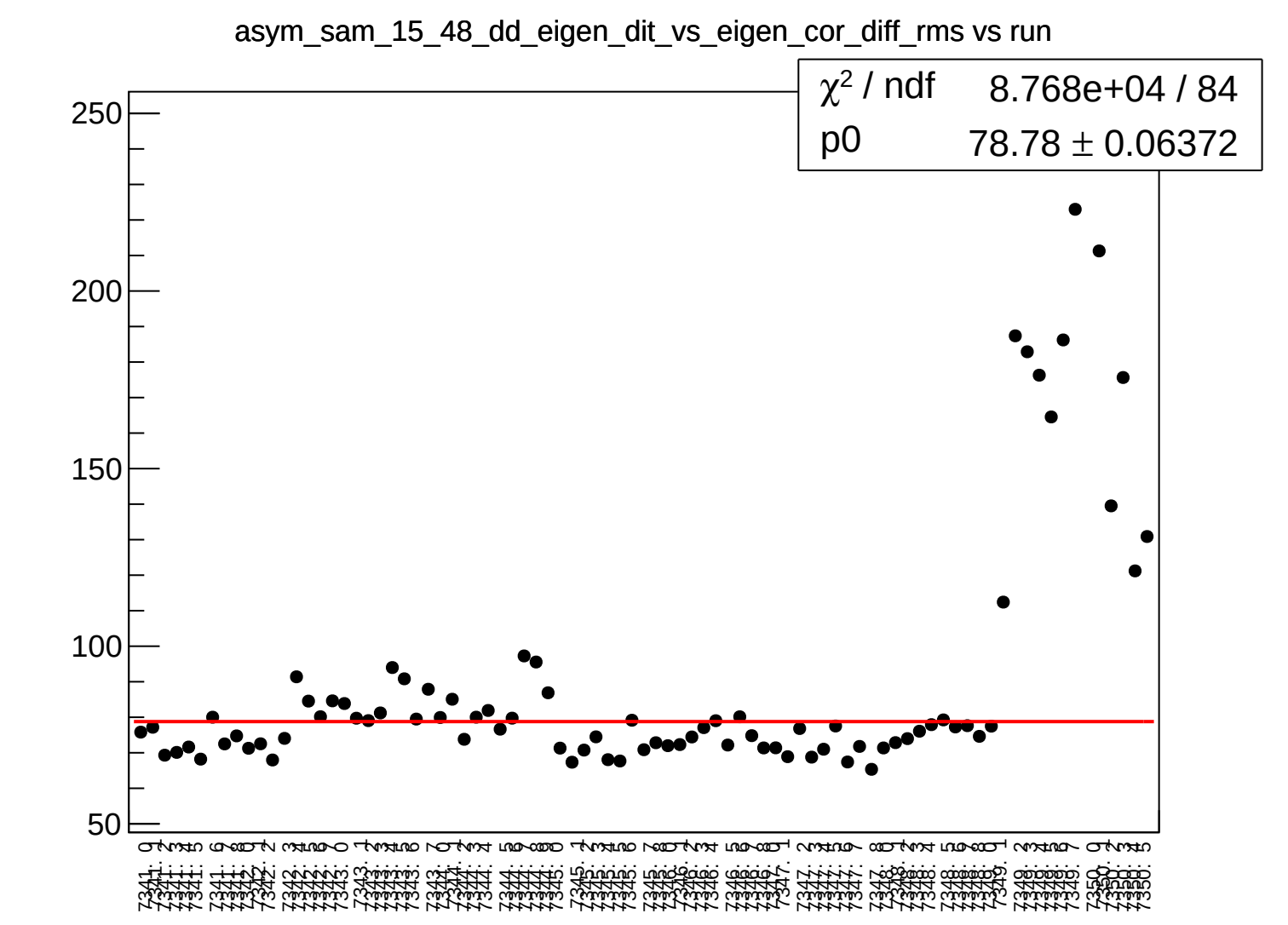

pull1D
Entries 85
Mean 0.008593
Std Dev 0.9634

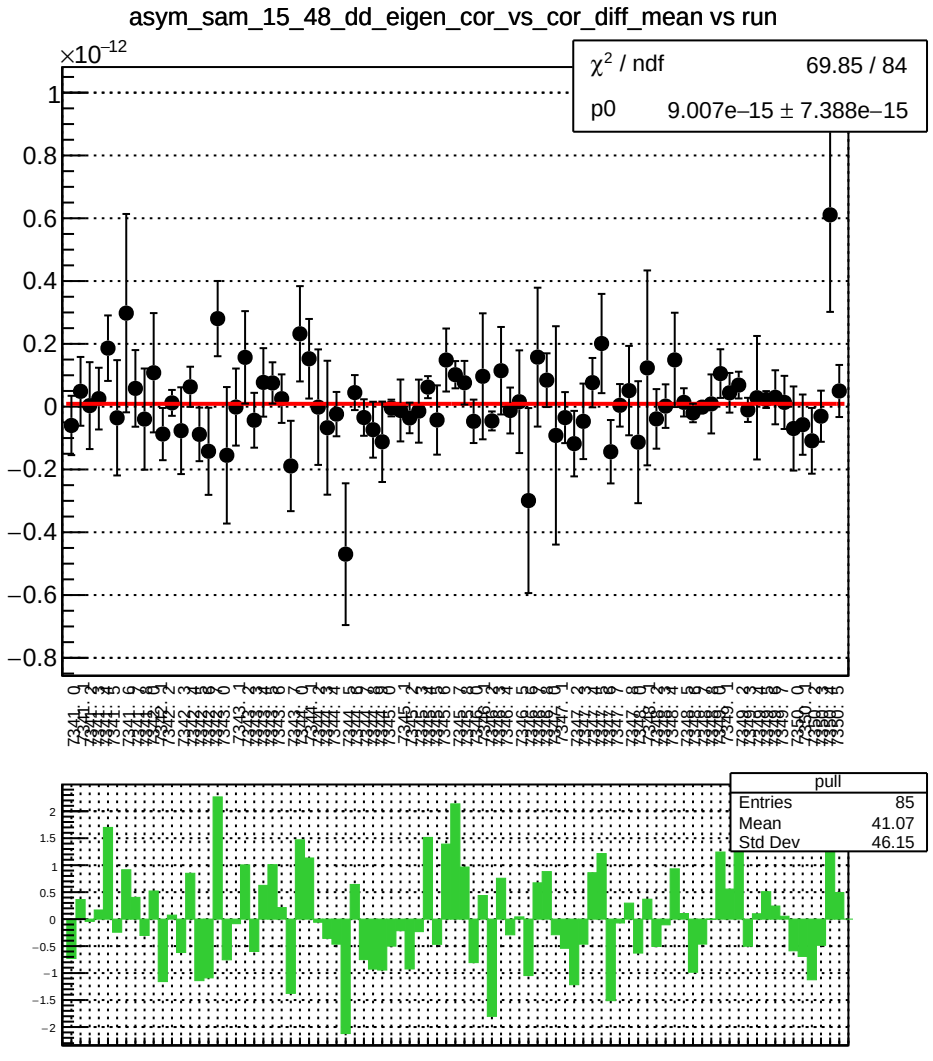

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3242 / 84
p0 0.004671 ± 3.678e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

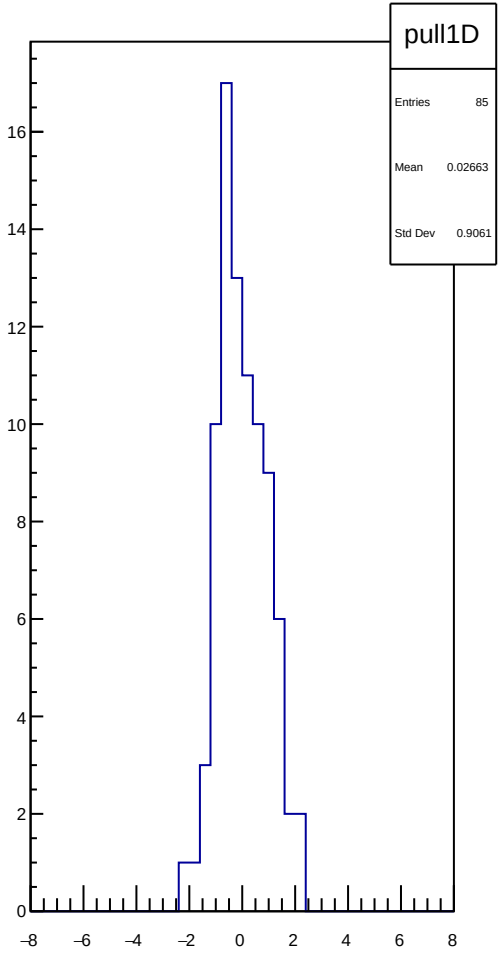

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.56 / 84
p0 0.02879 ± 0.09011
pull
Entries 85
Mean 18.23
Std Dev 0
pull1D
Entries 85
Mean 0.02768
Std Dev 0.9548

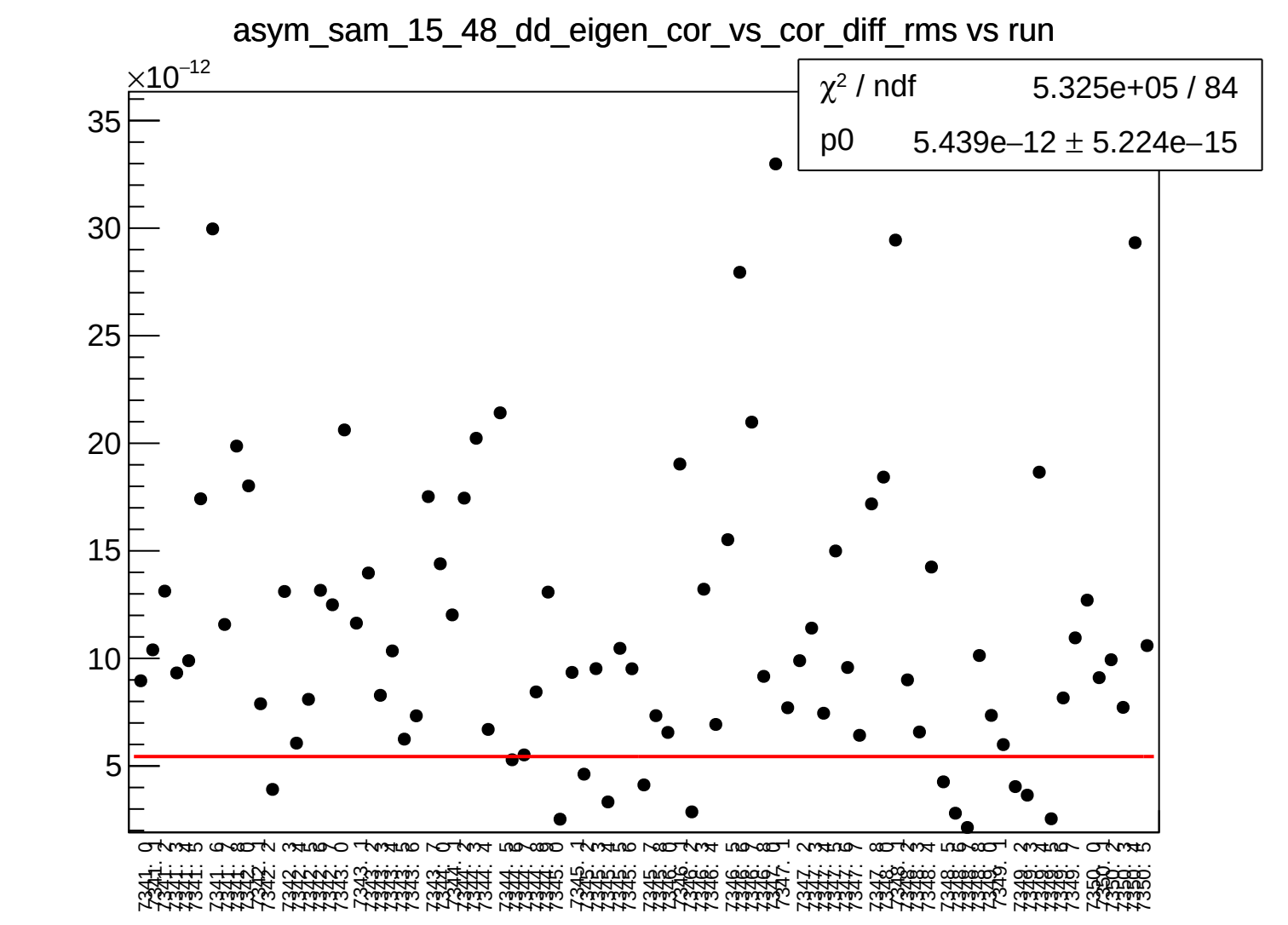

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.768e+04 / 84
p0 78.78 ± 0.06372
250
200
150
100
50

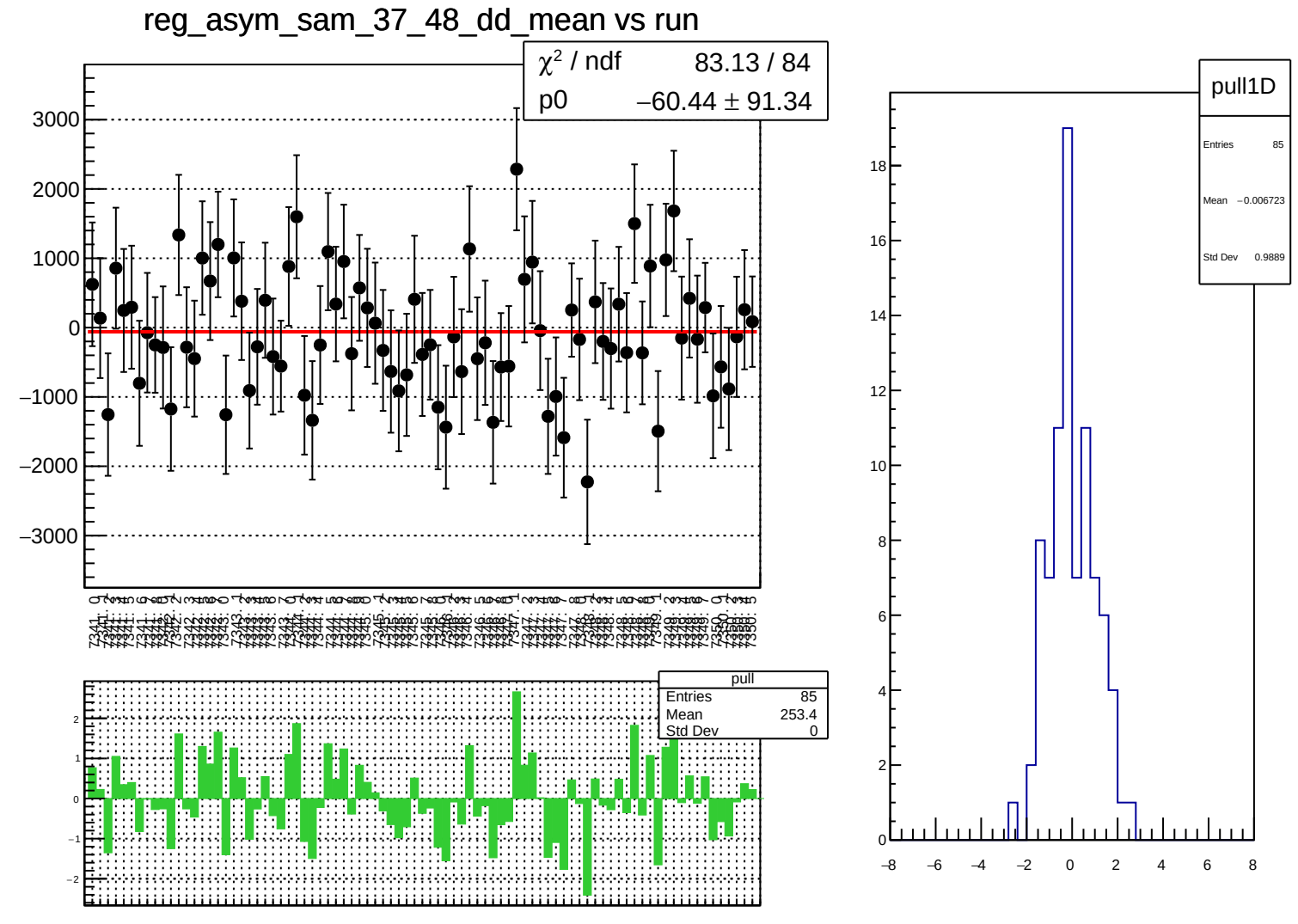

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.56 / 84
p0 0.02879 ± 0.09011
pull
Entries 85
Mean 18.23
Std Dev 0
pull1D
Entries 85
Mean 0.02768
Std Dev 0.9548

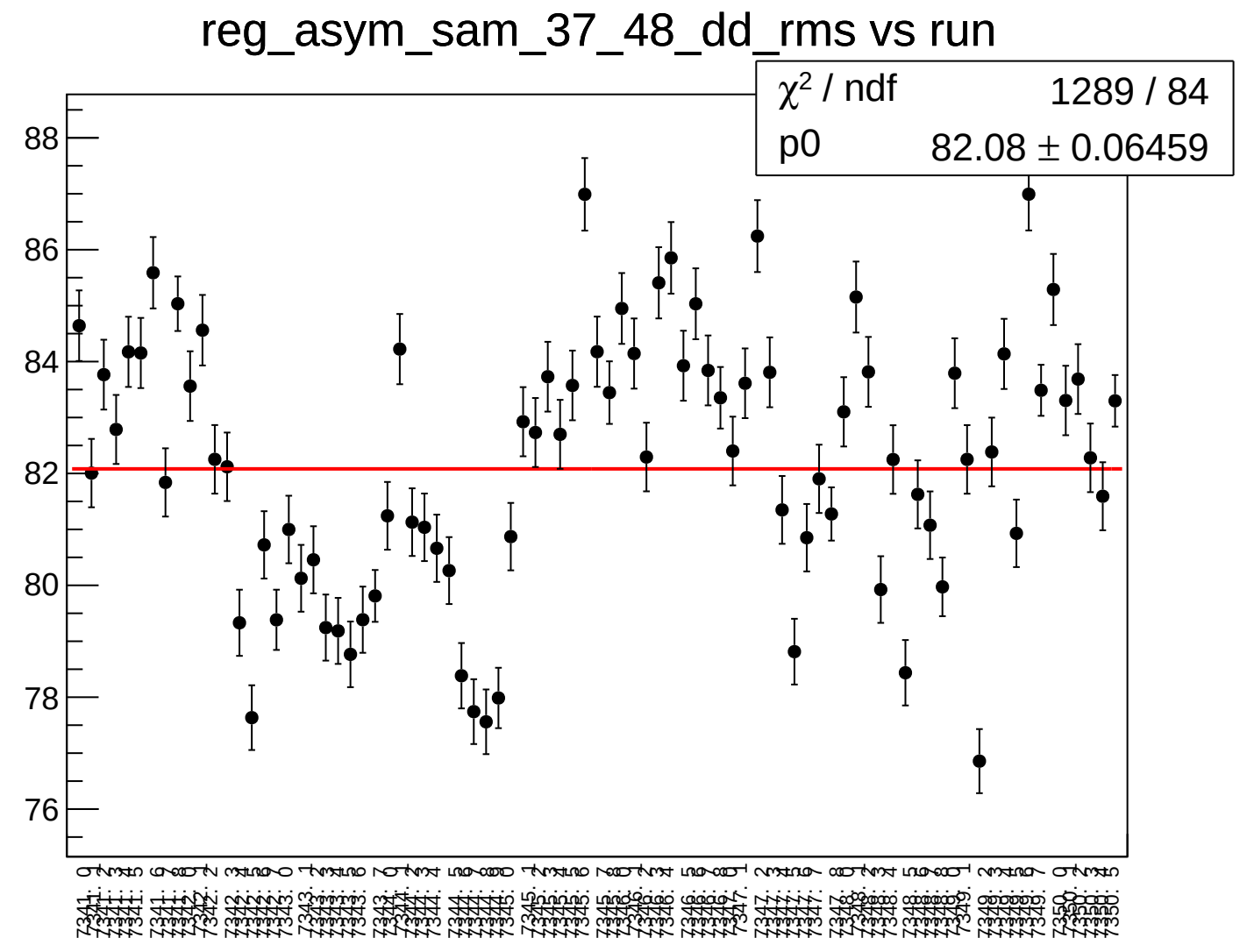

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.768e+04 / 84
p0 78.78 ± 0.06372
250
200
150
100
50

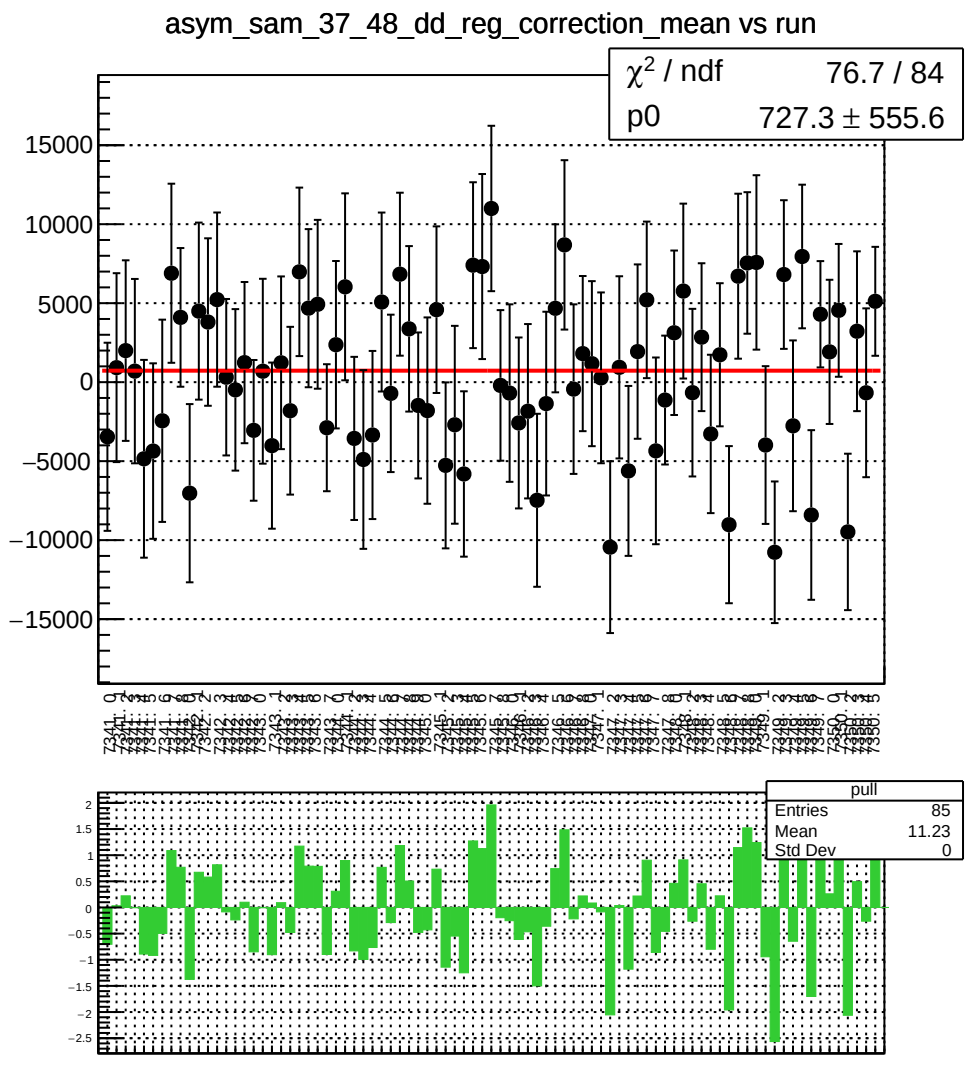

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.85 / 84
p0 9.007e−15 ± 7.388e−15
pull
Entries 85
Mean 41.07
Std Dev 46.15

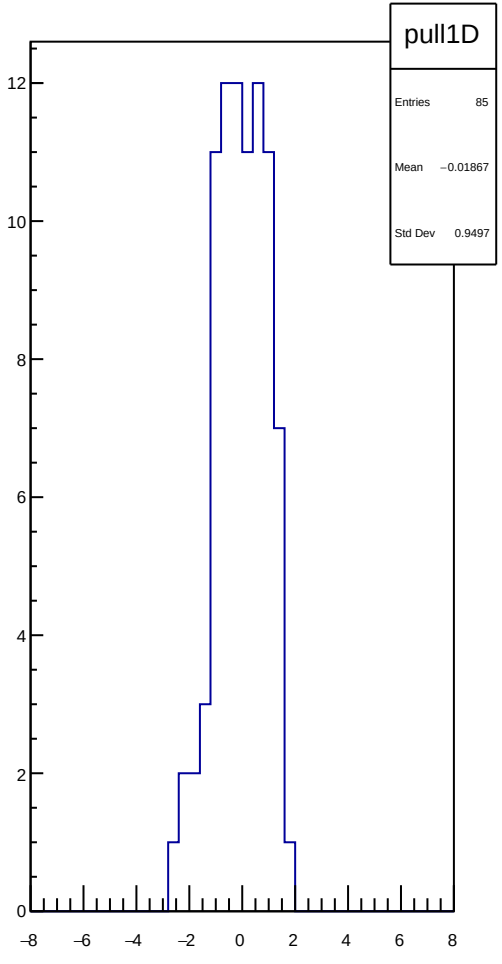

pull1D
Entries 85
Mean 0.02663
Std Dev 0.9061

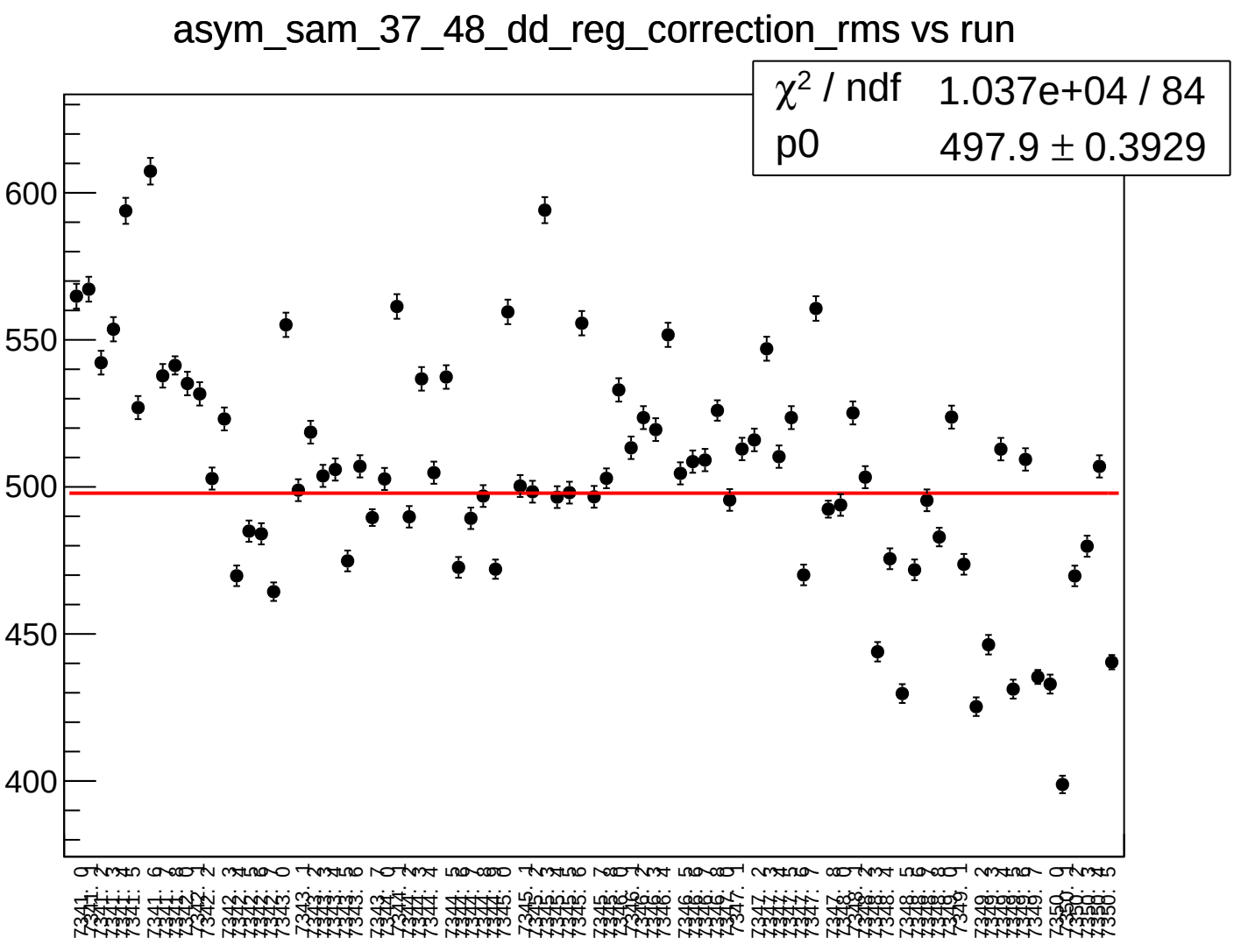

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.325e+05 / 84
p0 5.439e−12 ± 5.224e−15
35
30
25
20
15
10
5

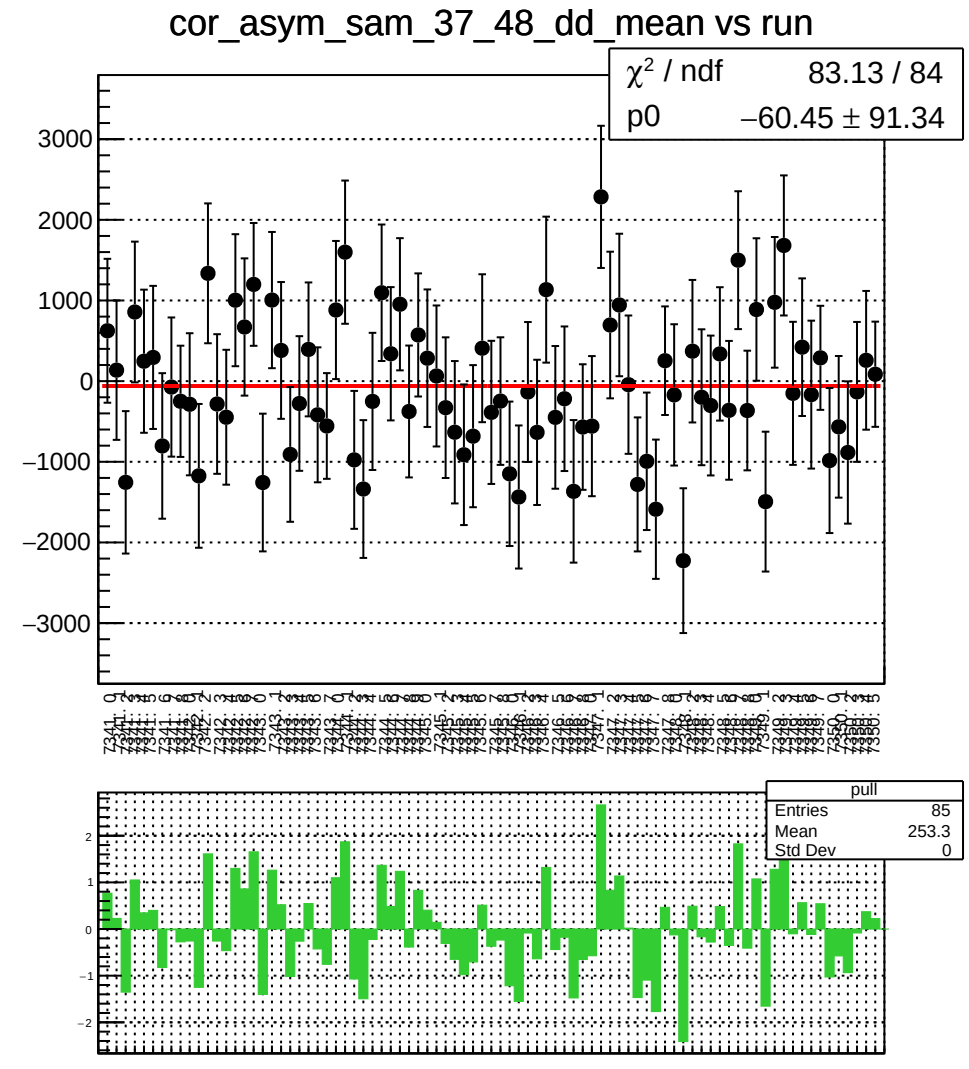

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 83.13 / 84
p0 −60.44 ± 91.34
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 253.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.006723
Std Dev 0.9889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

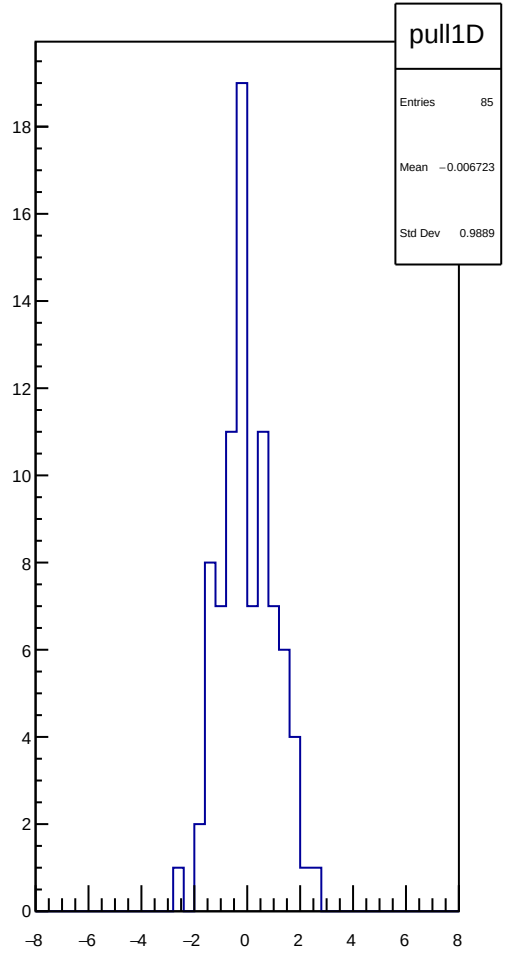

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1289 / 84
p0 82.08 ± 0.06459
88
86
84
82
80
78
76

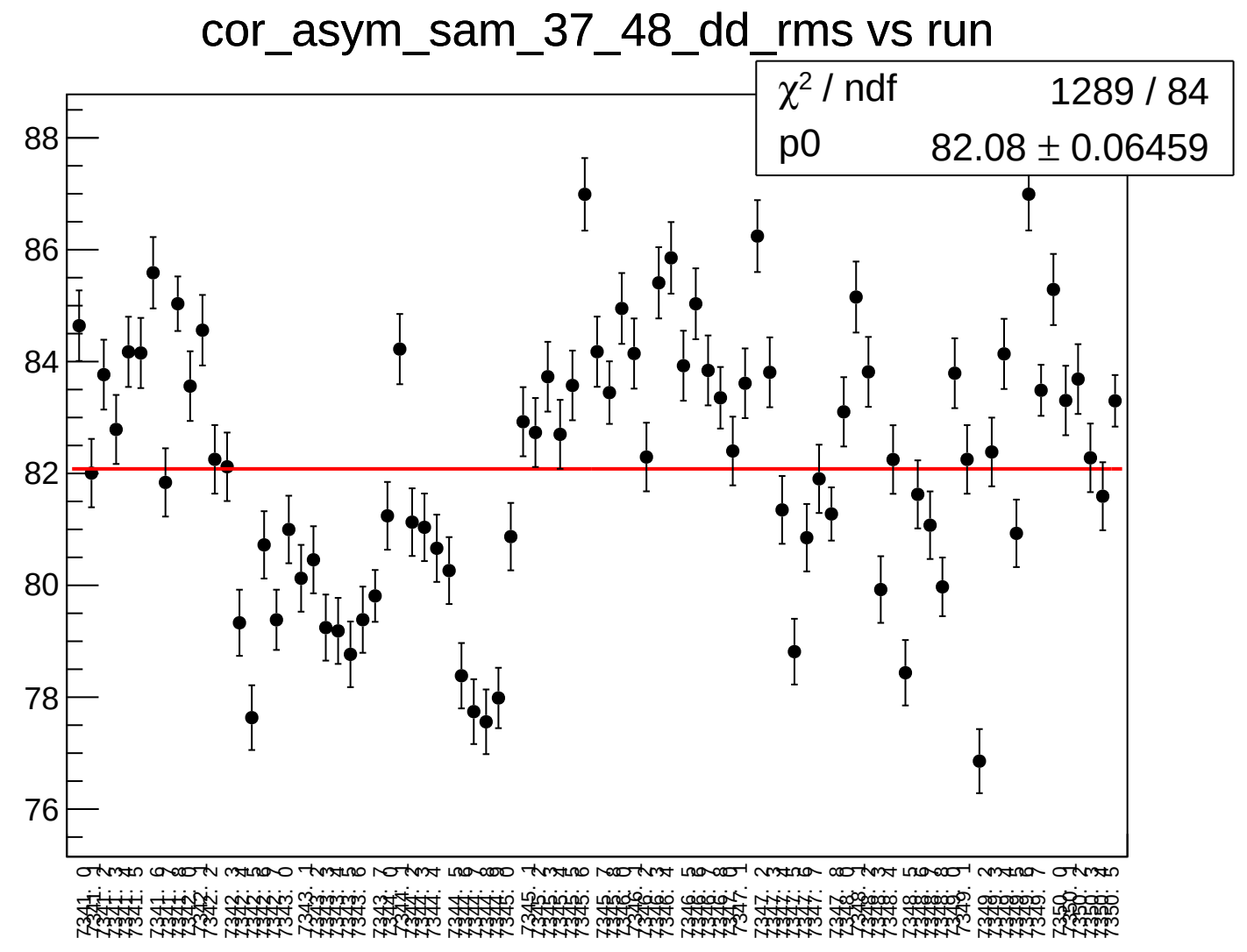

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 76.7 / 84
p0 727.3 ± 555.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 11.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

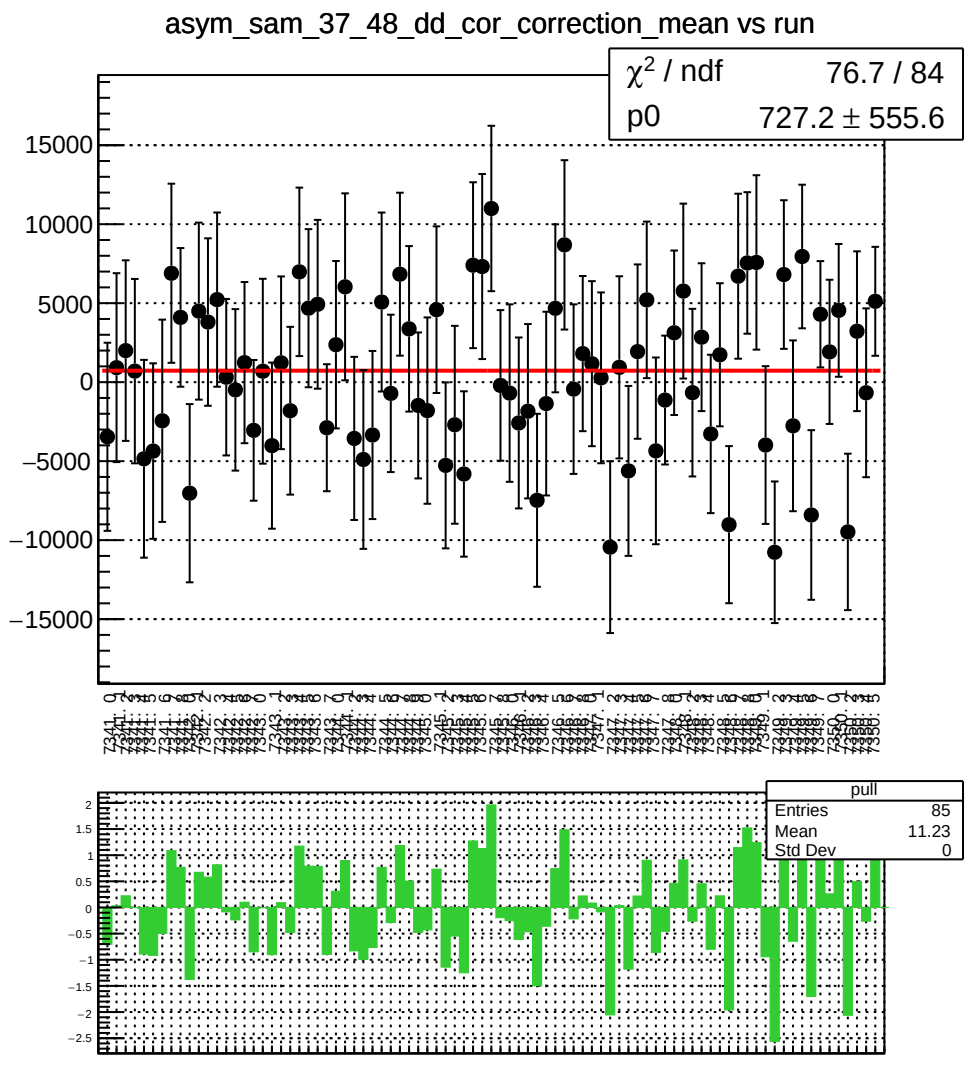

pull1D
Entries 85
Mean −0.01867
Std Dev 0.9497
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

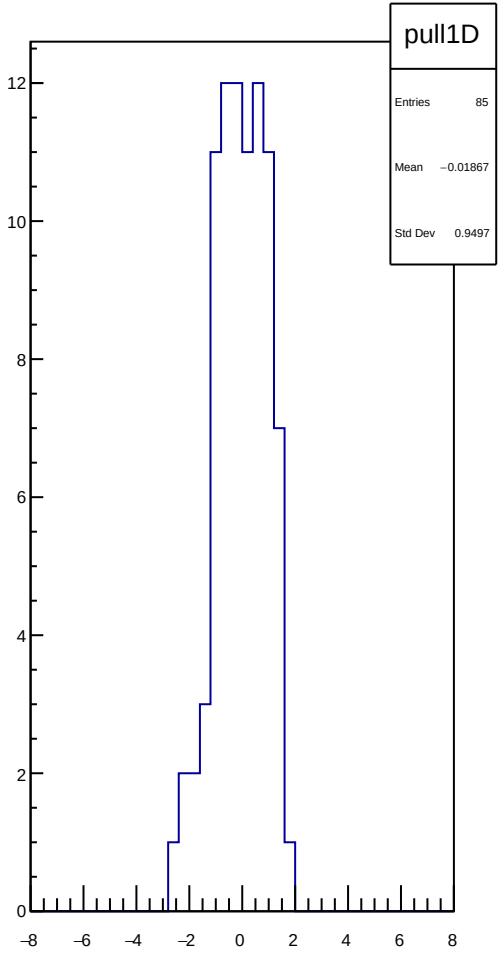

asym_sam_37_48_dd_reg_correction_rms vs run
χ^2 / ndf 1.037e+04 / 84
p0 497.9 ± 0.3929
600
550
500
450
400

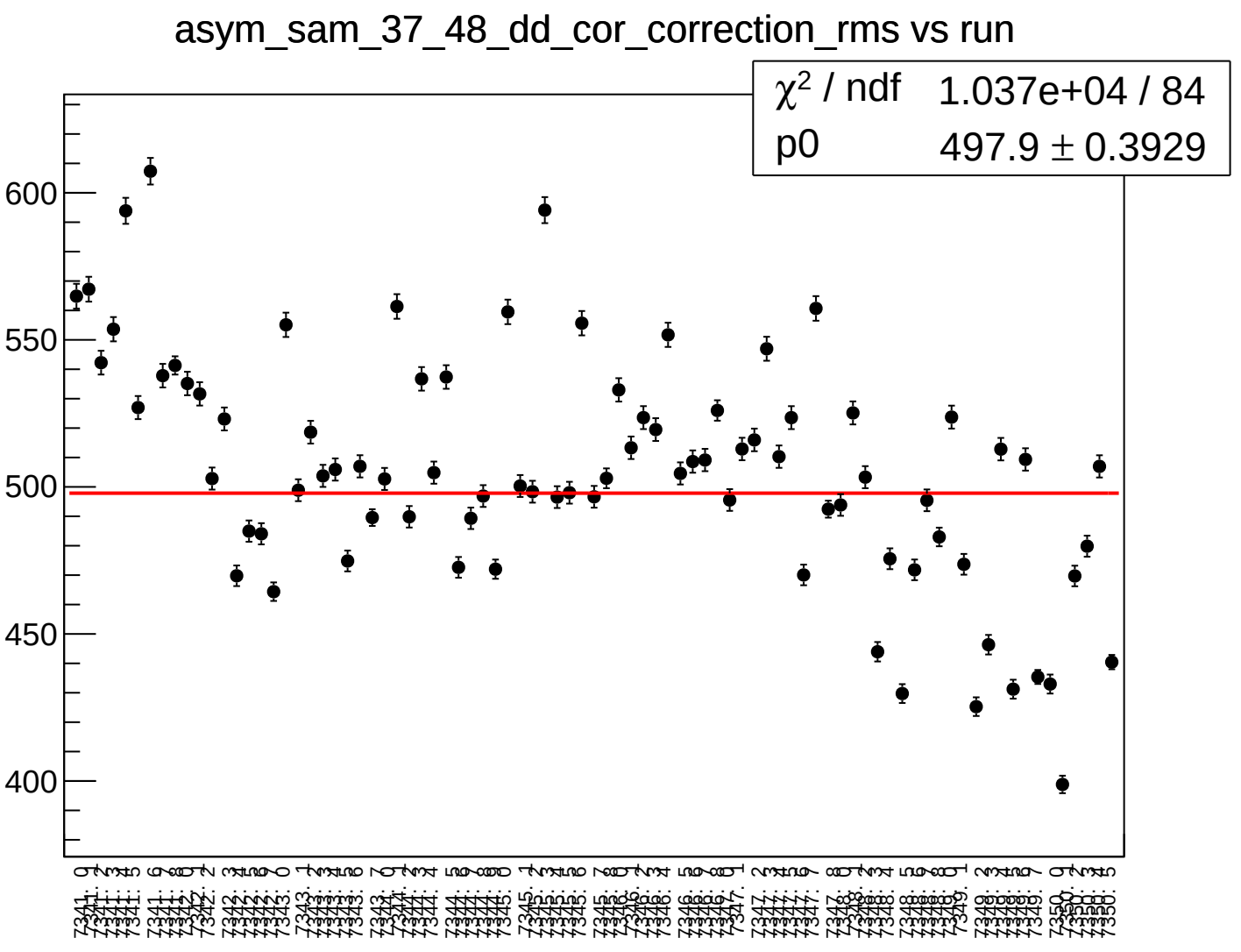

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 83.13 / 84
p0 −60.45 ± 91.34
pull
Entries 85
Mean 253.3
Std Dev 0

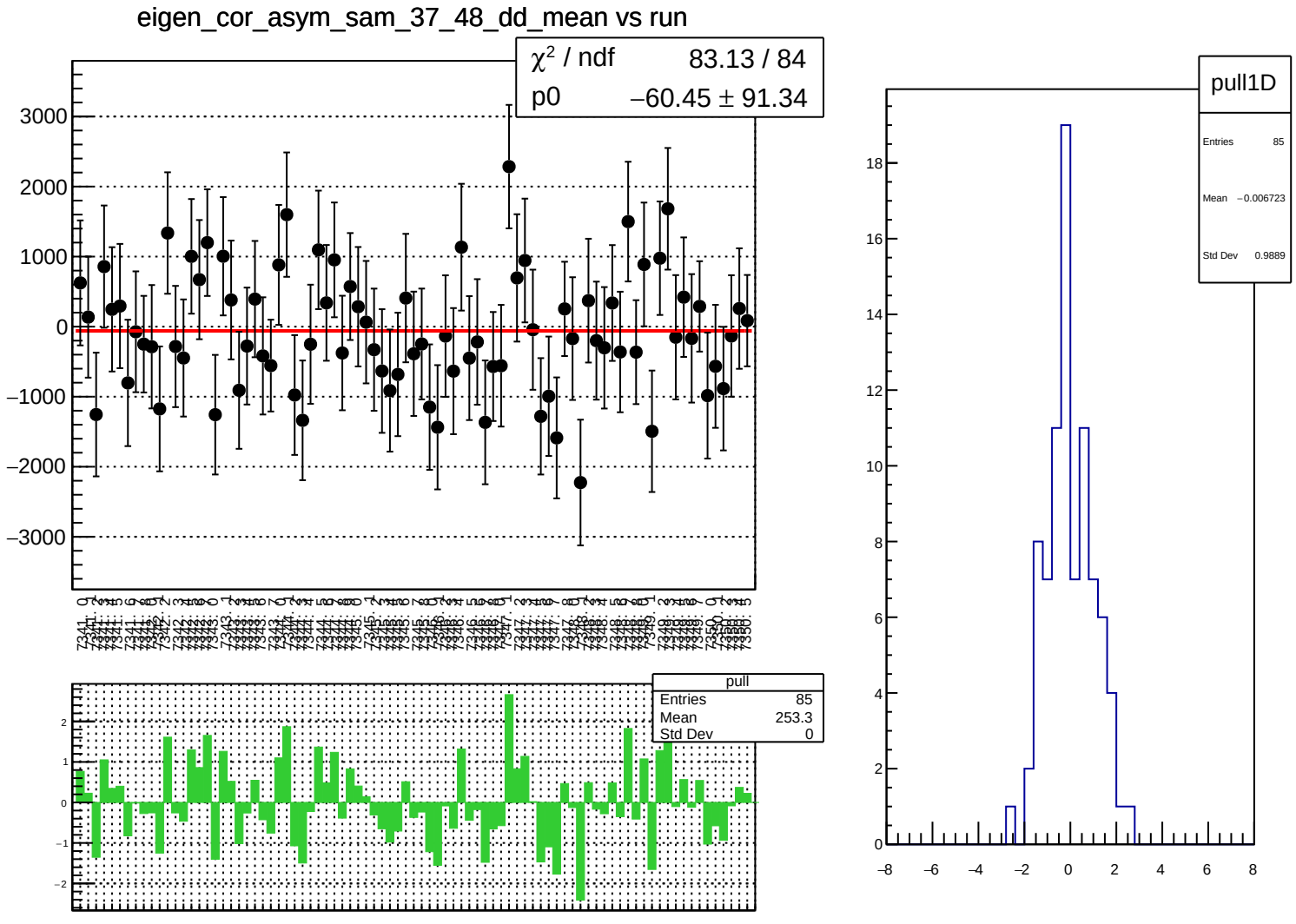

pull1D
Entries 85
Mean −0.006723
Std Dev 0.9889

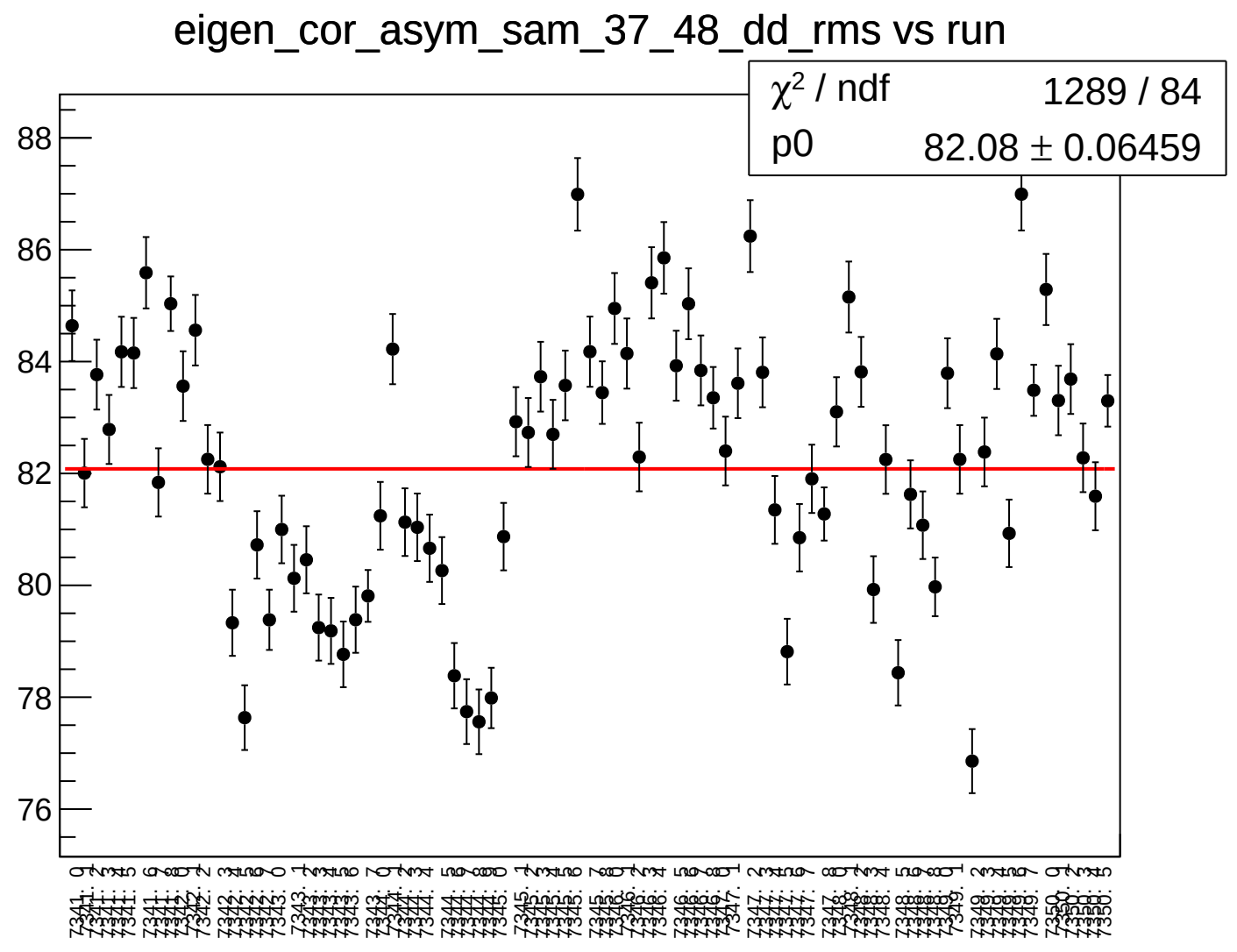

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1289 / 84
p0 82.08 ± 0.06459
88
86
84
82
80
78
76

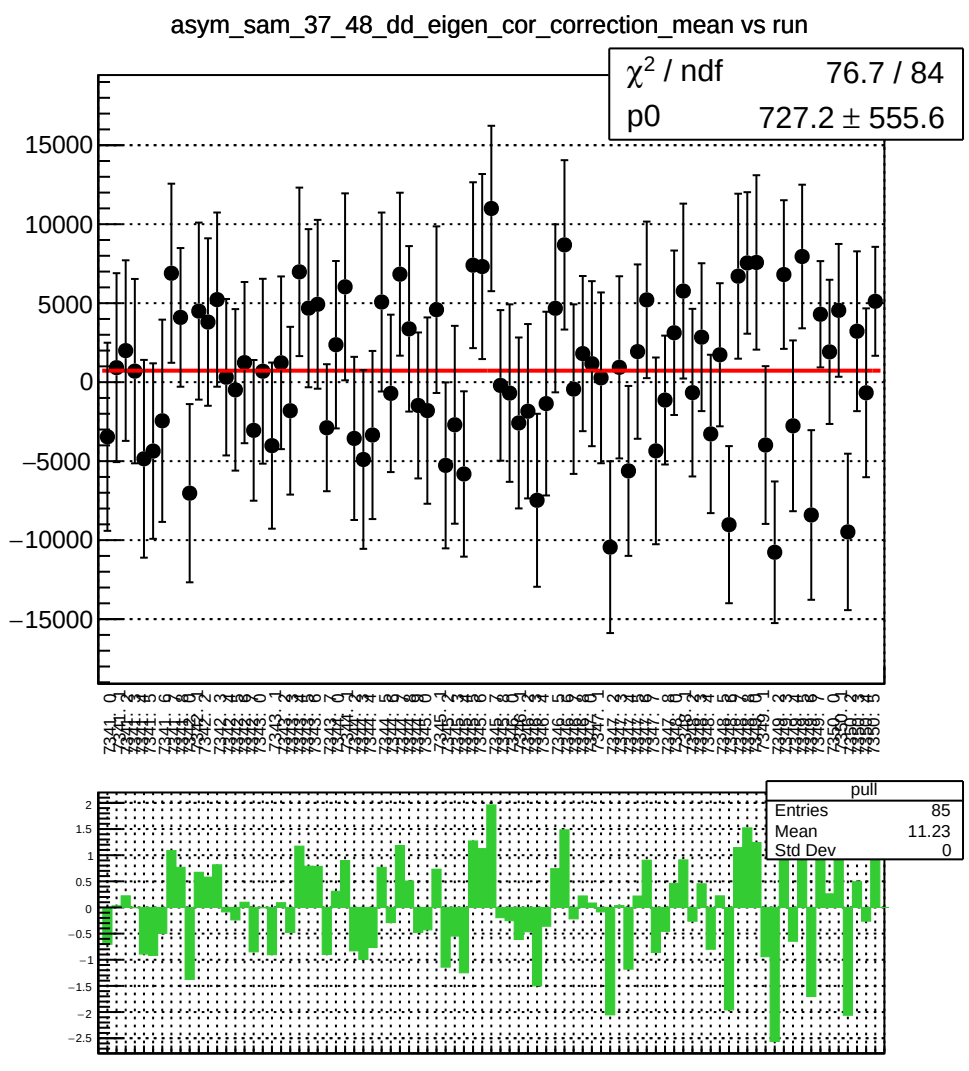

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 76.7 / 84
p0 727.2 ± 555.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 11.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

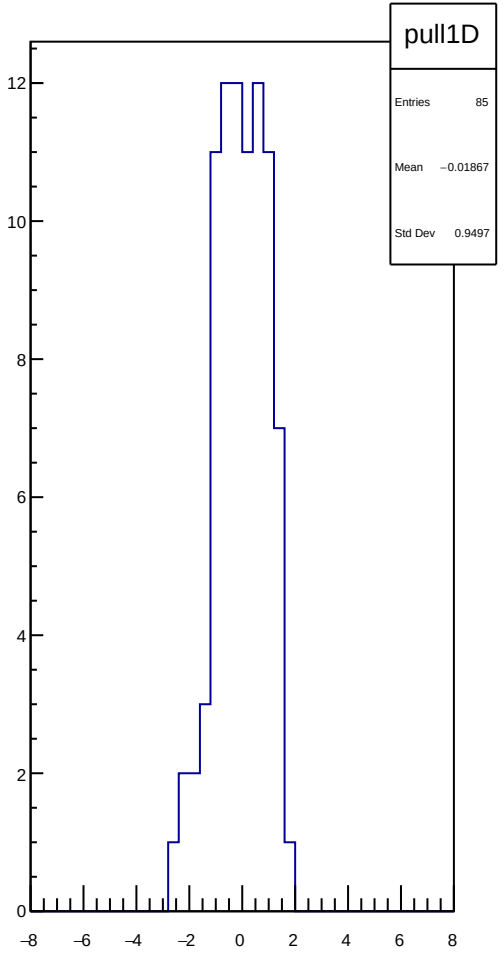

pull1D
Entries 85
Mean −0.01867
Std Dev 0.9497
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

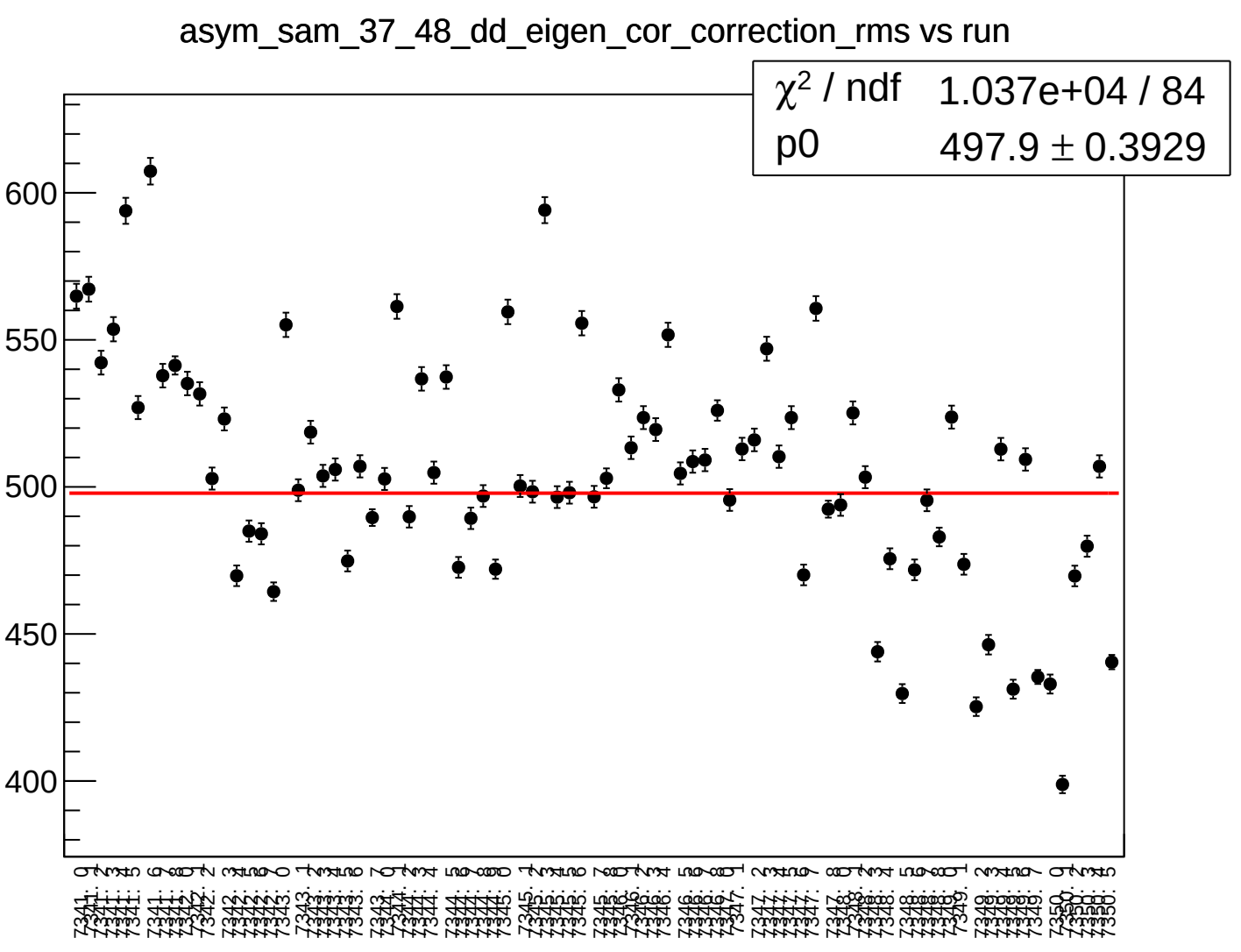

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.037e+04 / 84
p0 497.9 ± 0.3929
600
550
500
450
400

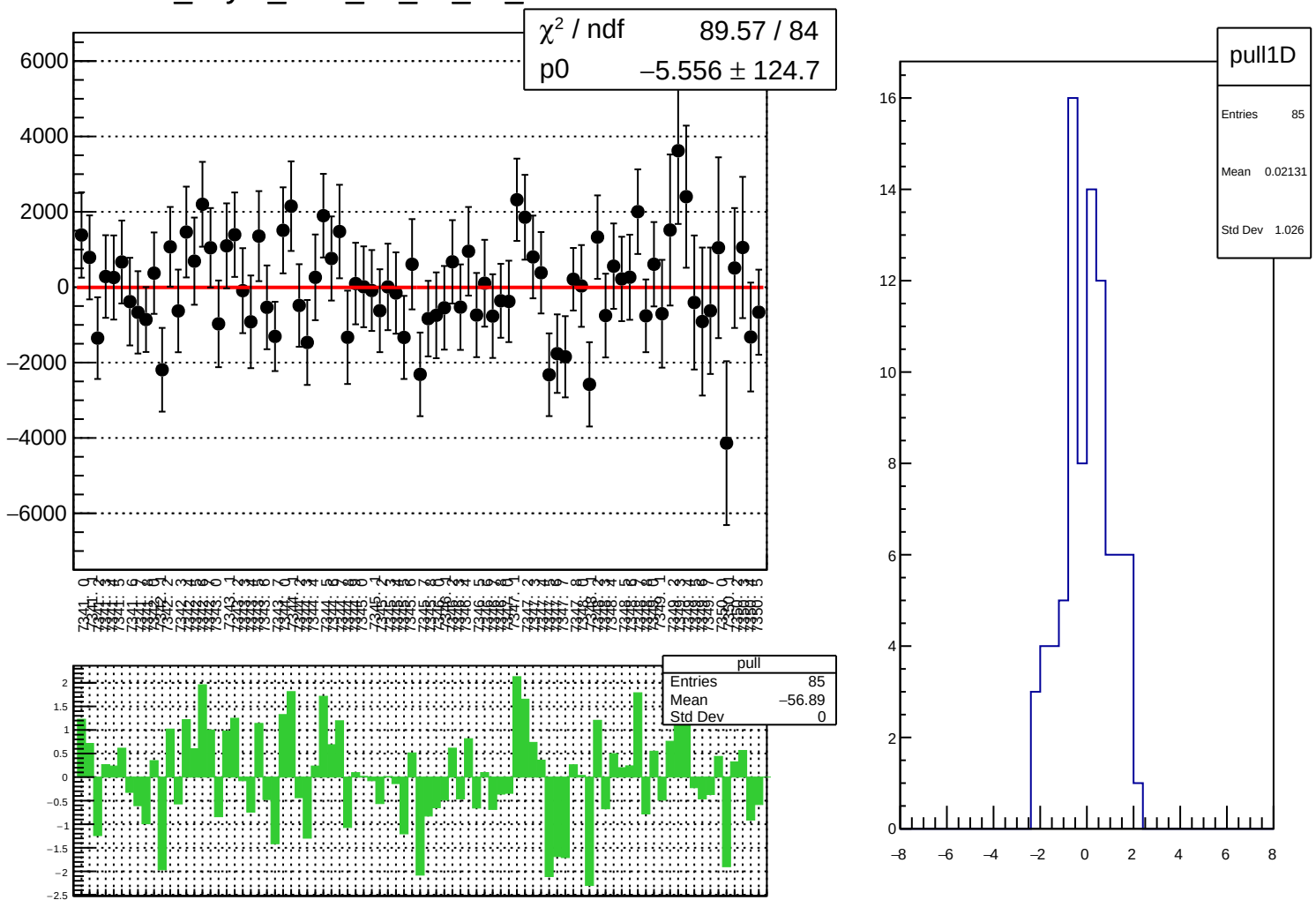

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 83.13 / 84
p0 −60.45 ± 91.34
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 253.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.006723
Std Dev 0.9889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

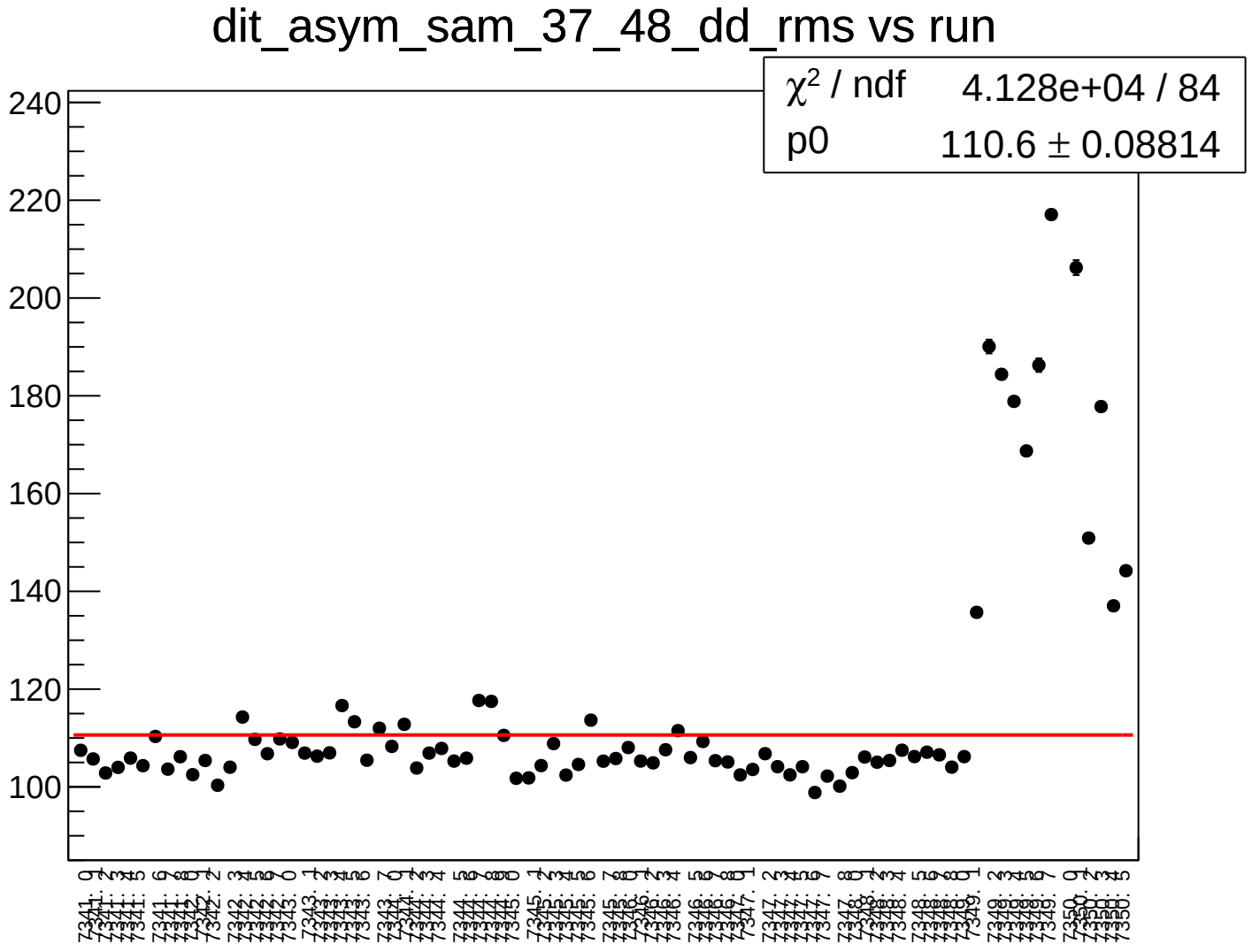

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1289 / 84
p0 82.08 ± 0.06459
88
86
84
82
80
78
76

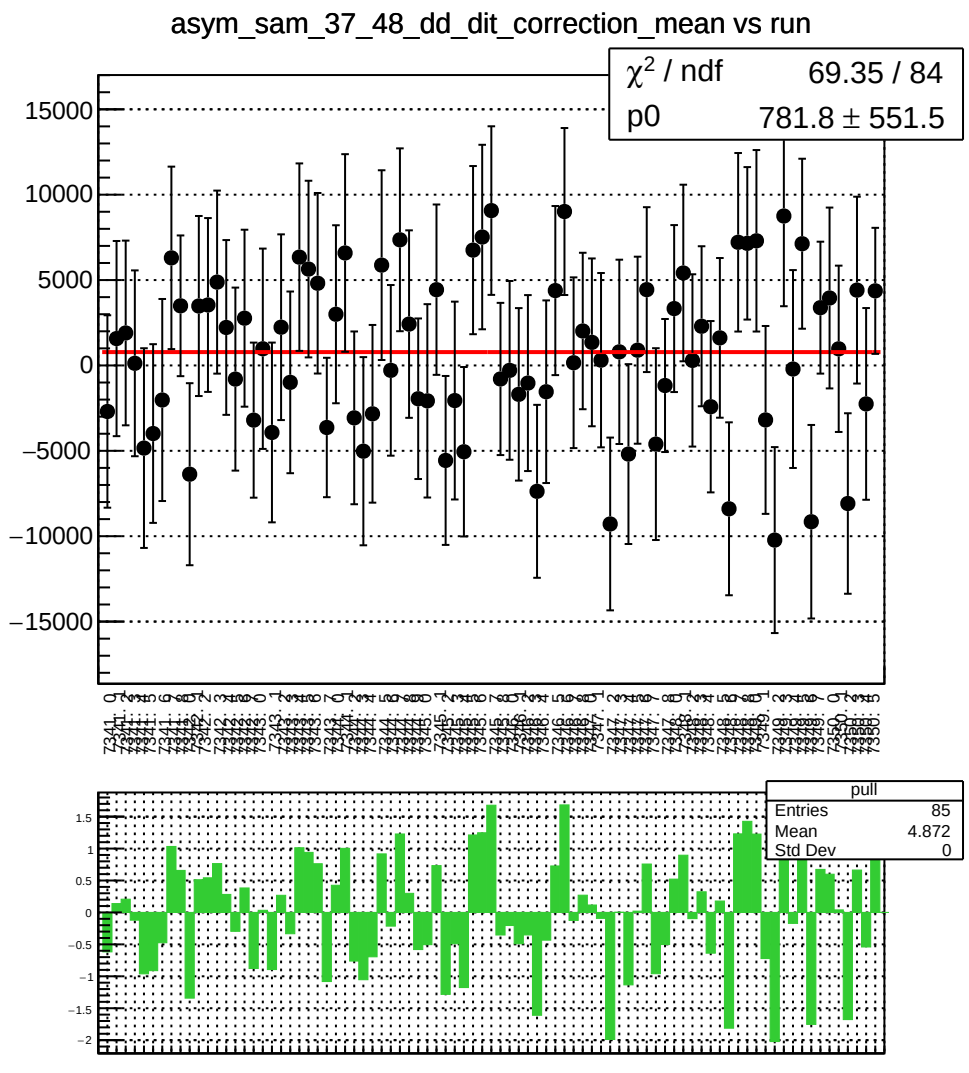

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.7 / 84
p0 727.2 ± 555.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 11.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

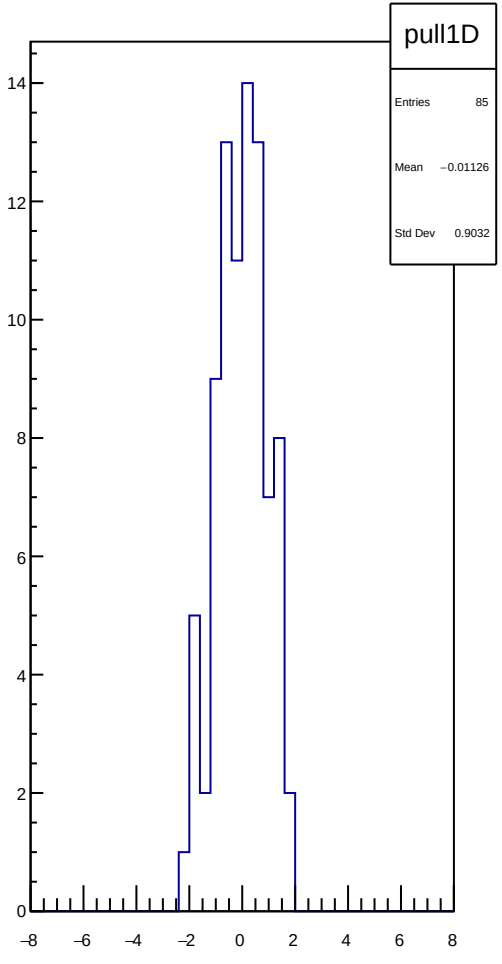

pull1D
Entries 85
Mean −0.01867
Std Dev 0.9497
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

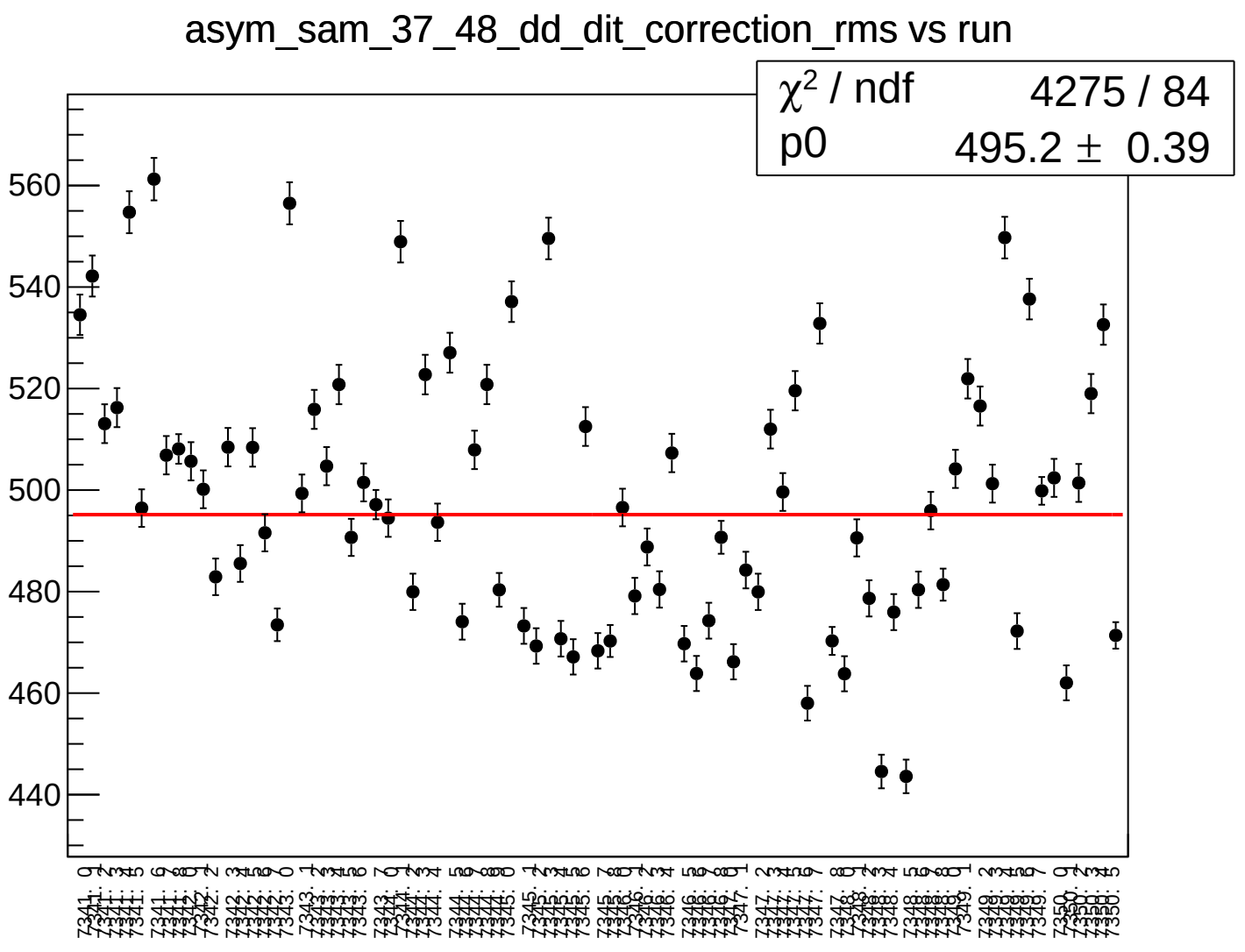

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.037e+04 / 84
p0 497.9 ± 0.3929
600
550
500
450
400

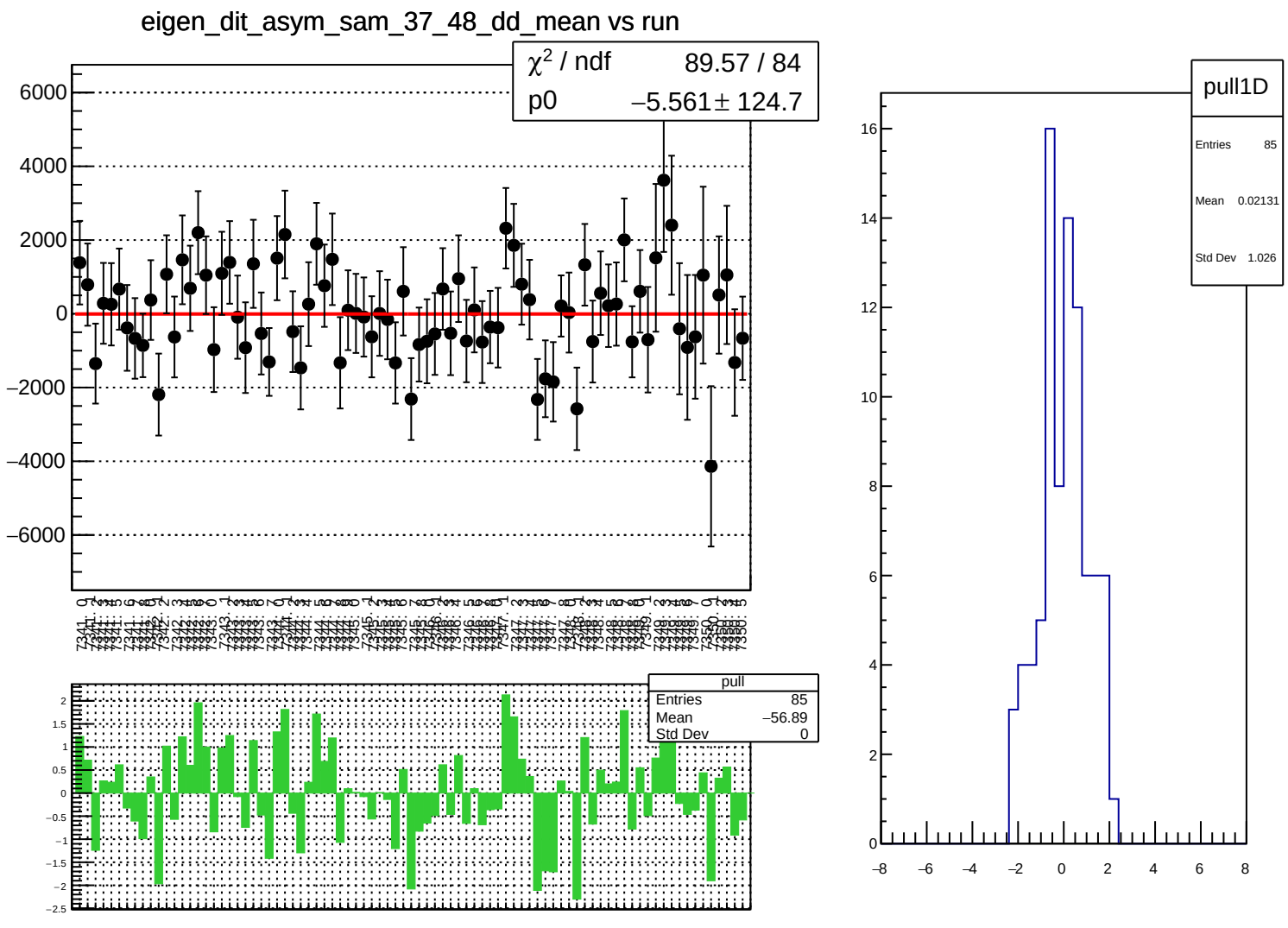

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.57 / 84
p0 −5.556 ± 124.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −56.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 85
Mean 0.02131
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

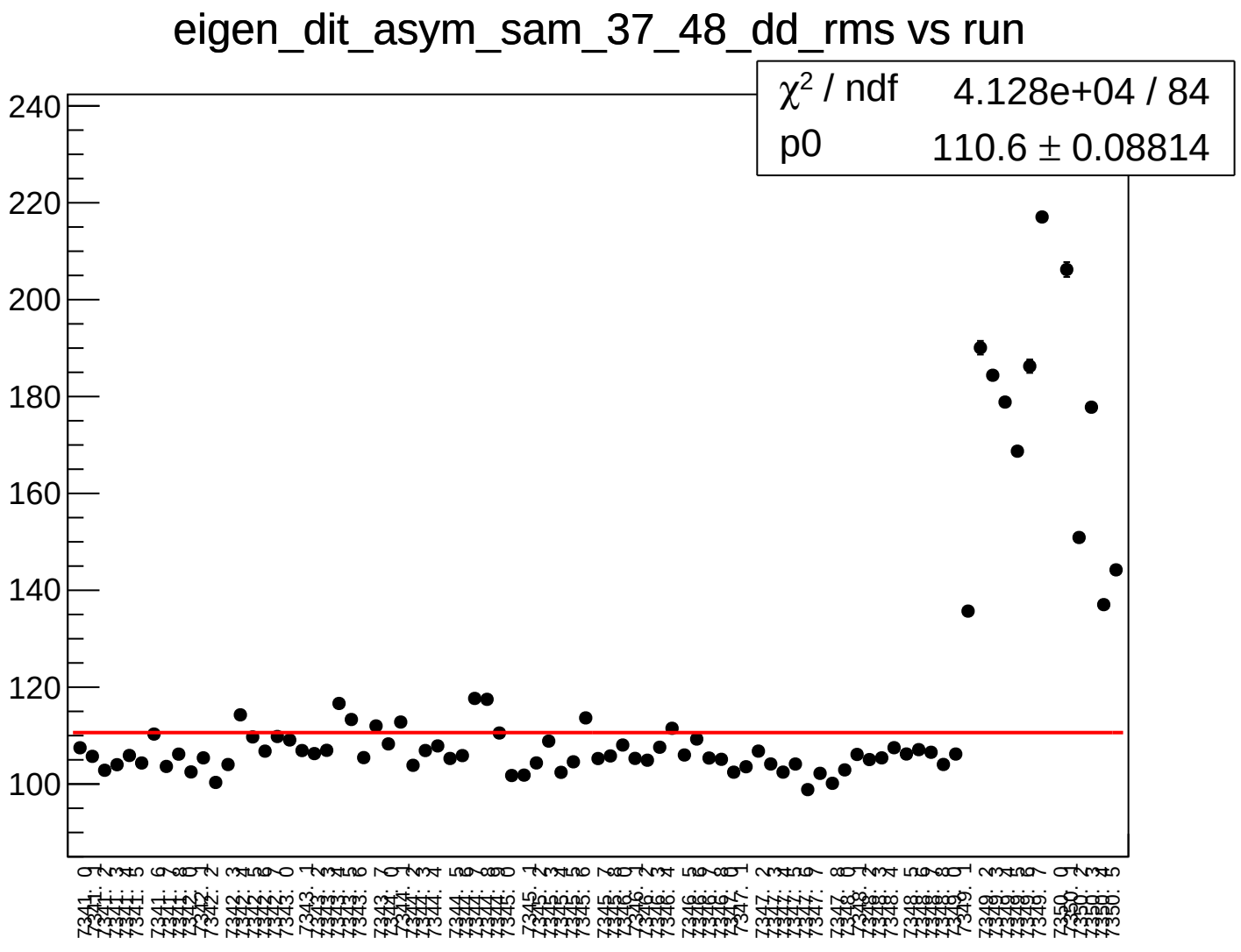

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4.128e+04 / 84
p0 110.6 ± 0.08814
240
220
200
180
160
140
120
100

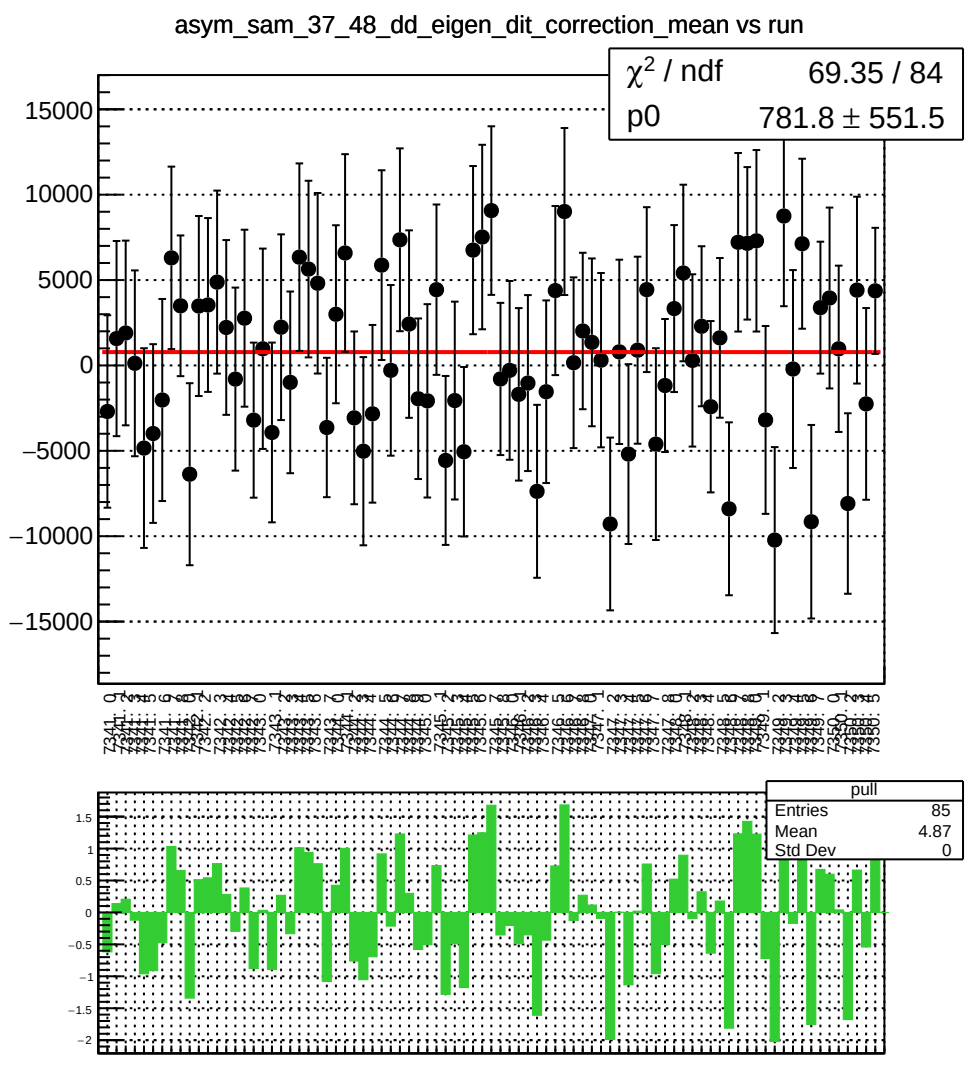

asym_sam_37_48_dd_dit_correction_mean vs run
χ^2 / ndf 69.35 / 84
p0 781.8 ± 551.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 4.872
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

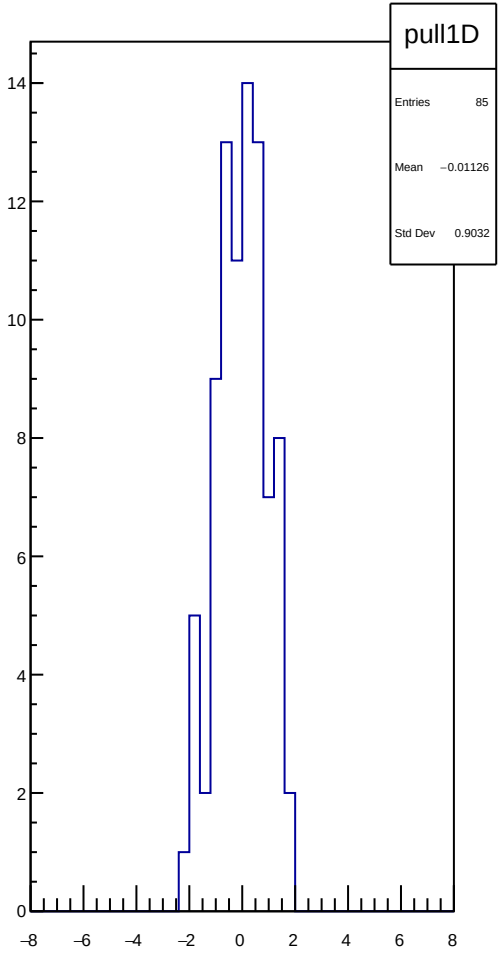

pull1D
Entries 85
Mean −0.01126
Std Dev 0.9032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

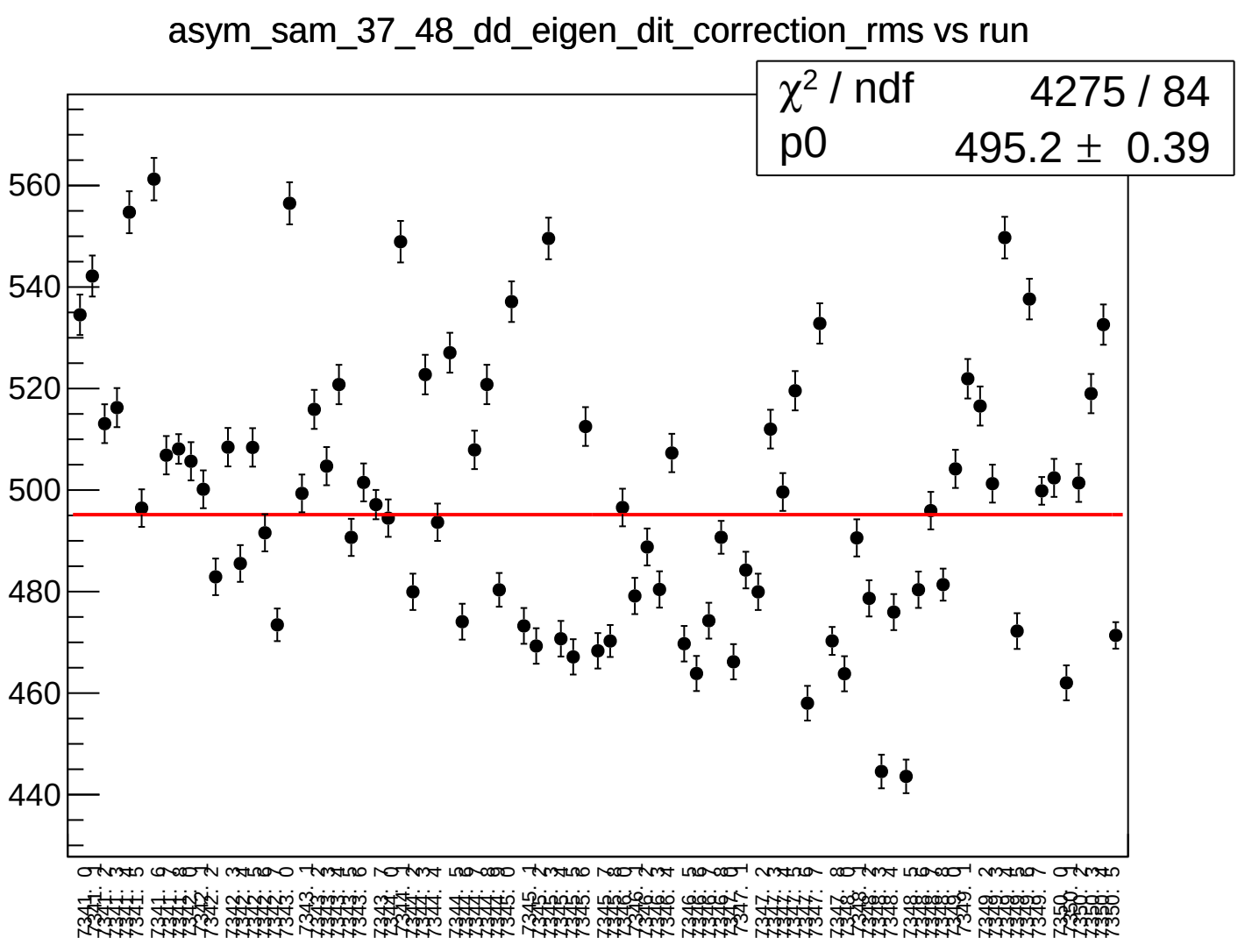

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 4275 / 84
p0 495.2 ± 0.39
560
540
520
500
480
460
440

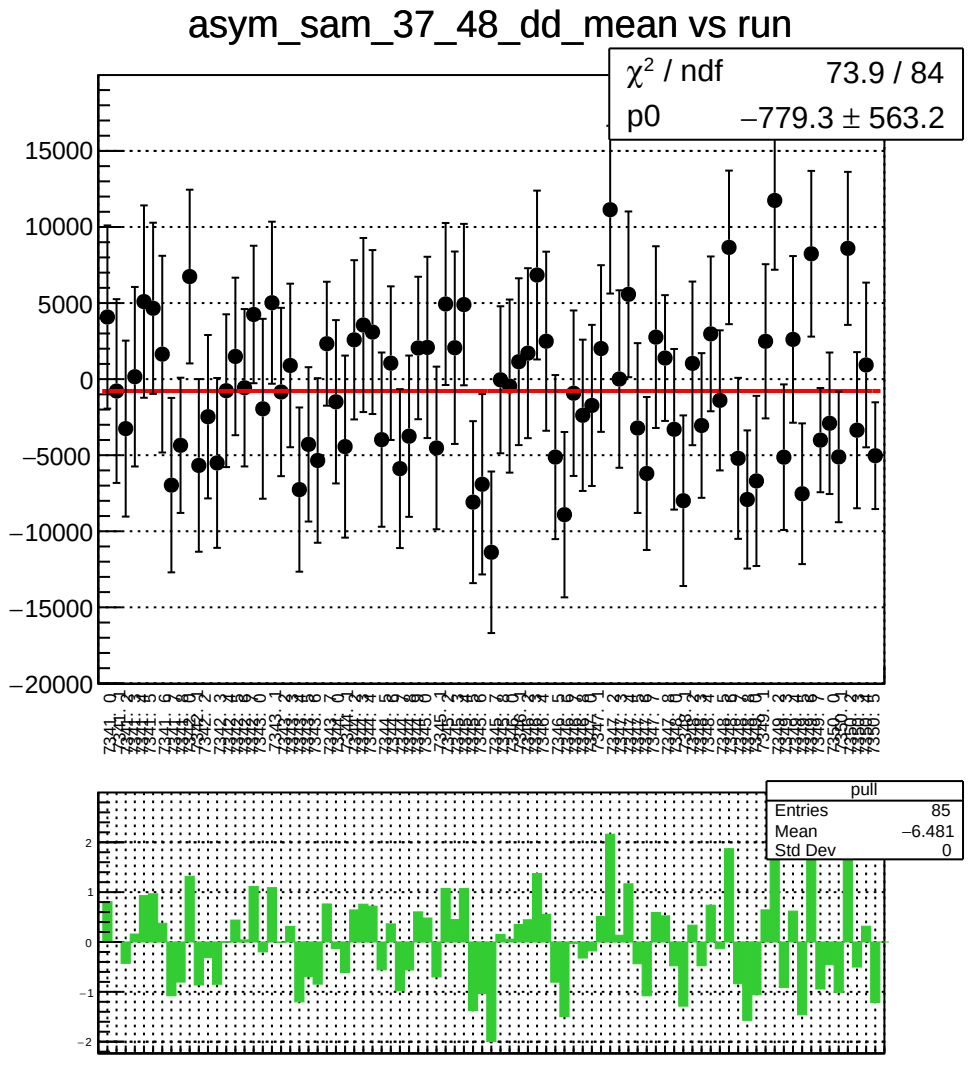

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.57 / 84
p0 −5.561 ± 124.7
pull
Entries 85
Mean −56.89
Std Dev 0
pull1D
Entries 85
Mean 0.02131
Std Dev 1.026

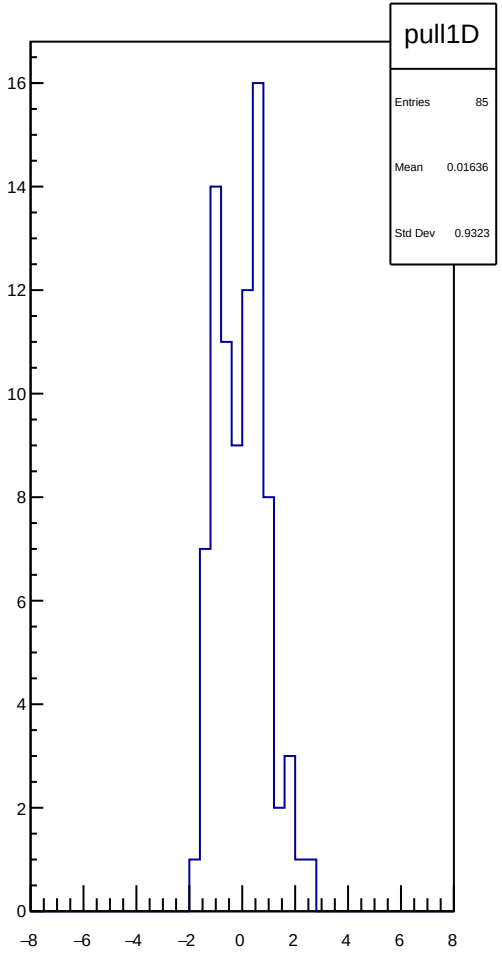

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4.128e+04 / 84
p0 110.6 ± 0.08814
240
220
200
180
160
140
120
100

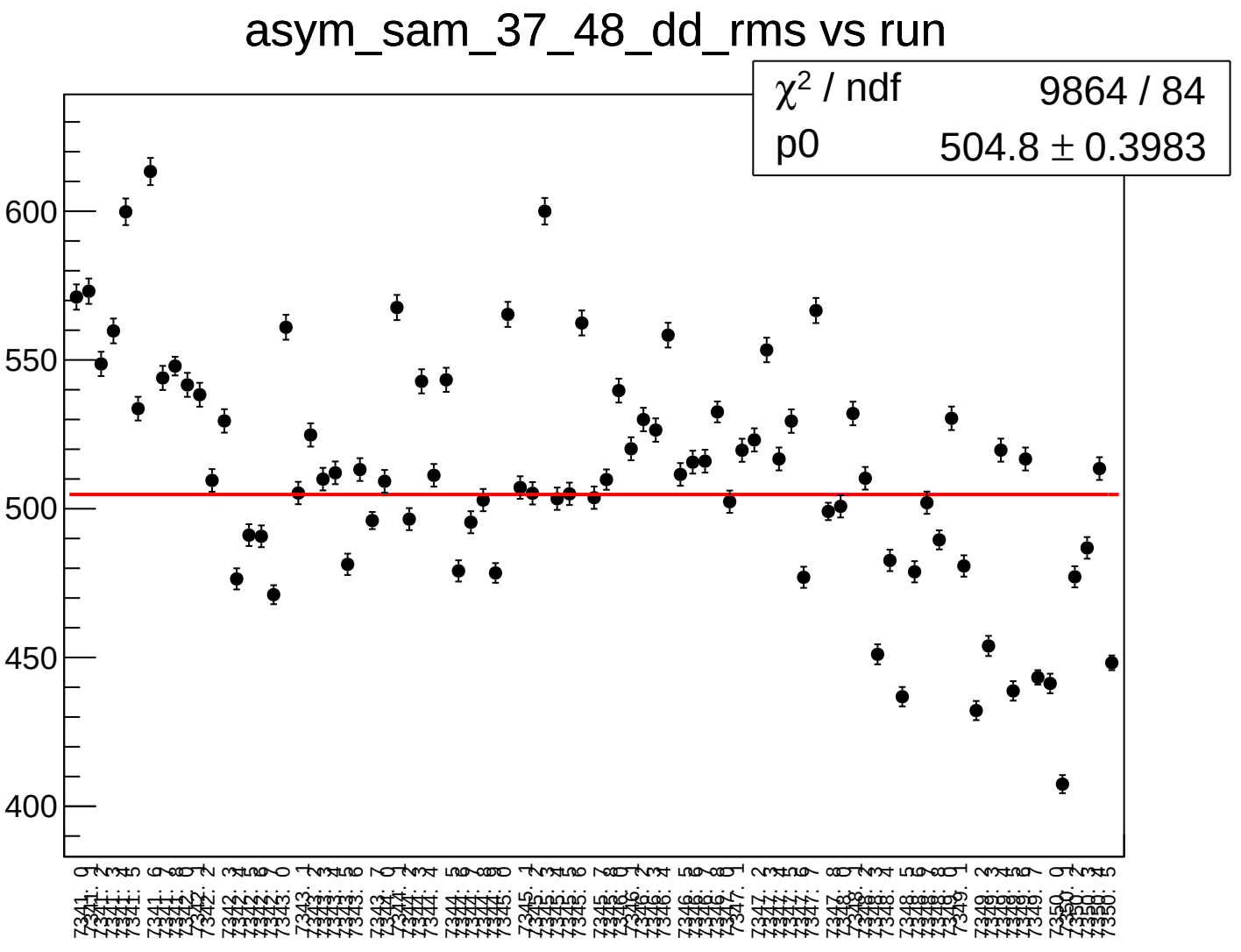

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.35 / 84
p0 781.8 ± 551.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 4.87
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

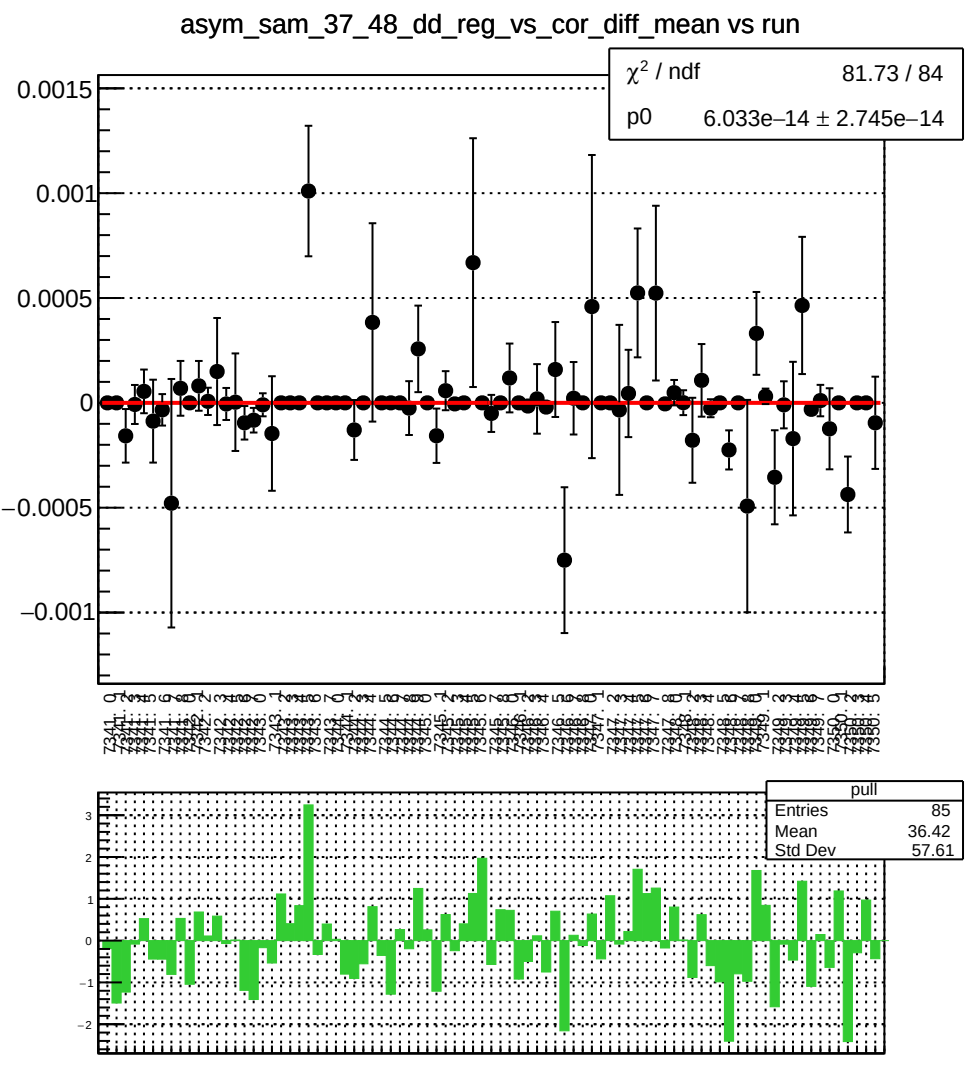

pull1D
Entries 85
Mean −0.01126
Std Dev 0.9032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

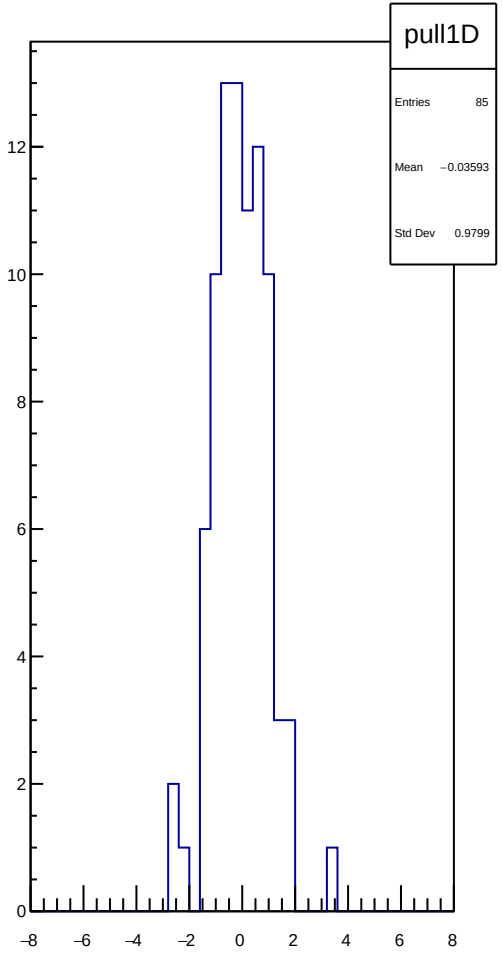

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4275 / 84
p0 495.2 ± 0.39
560
540
520
500
480
460
440

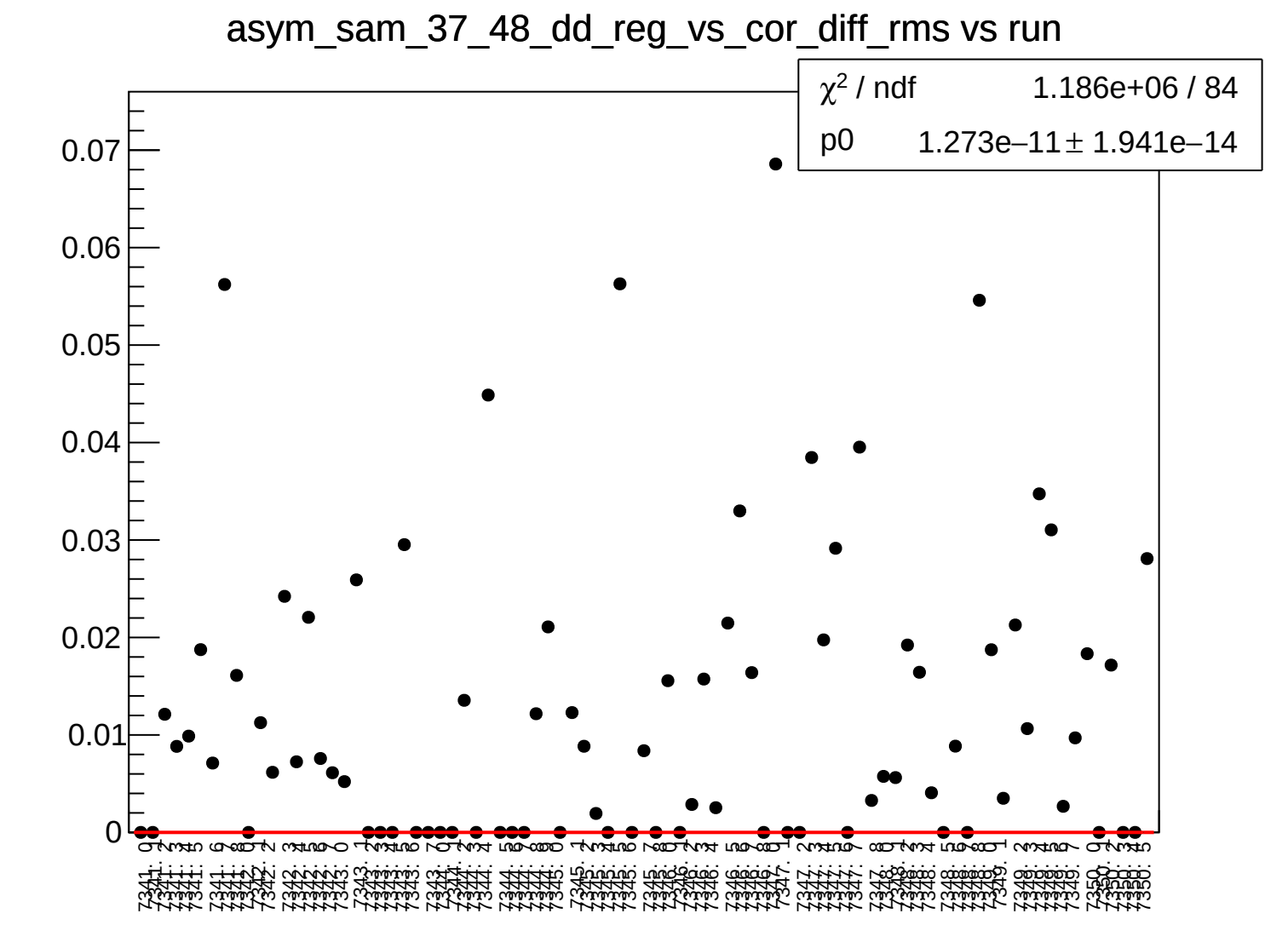

asym_sam_37_48_dd_mean vs run
χ² / ndf 73.9 / 84
p0 −779.3 ± 563.2
pull
Entries 85
Mean −6.481
Std Dev 0

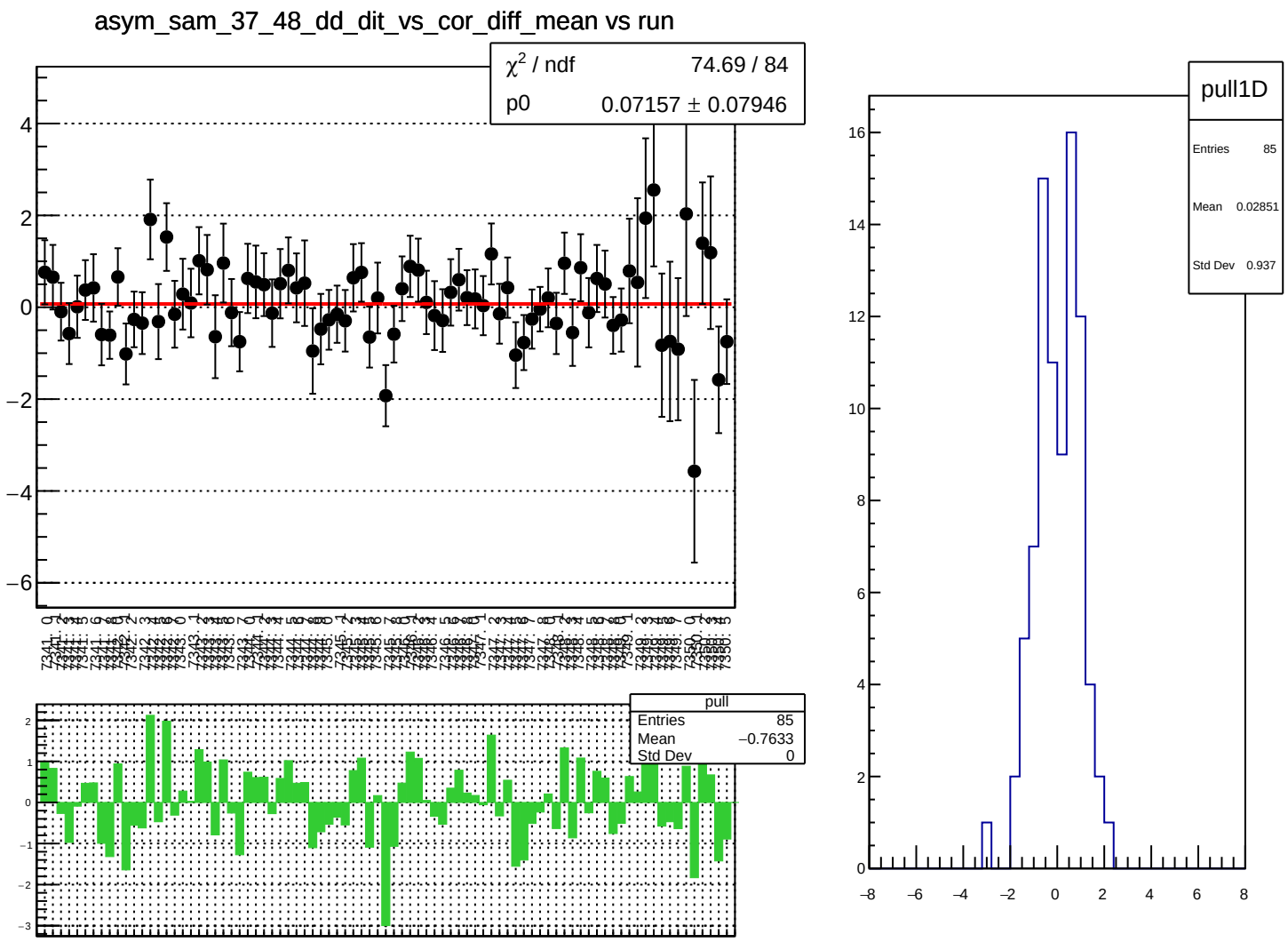

pull1D
Entries 85
Mean 0.01636
Std Dev 0.9323

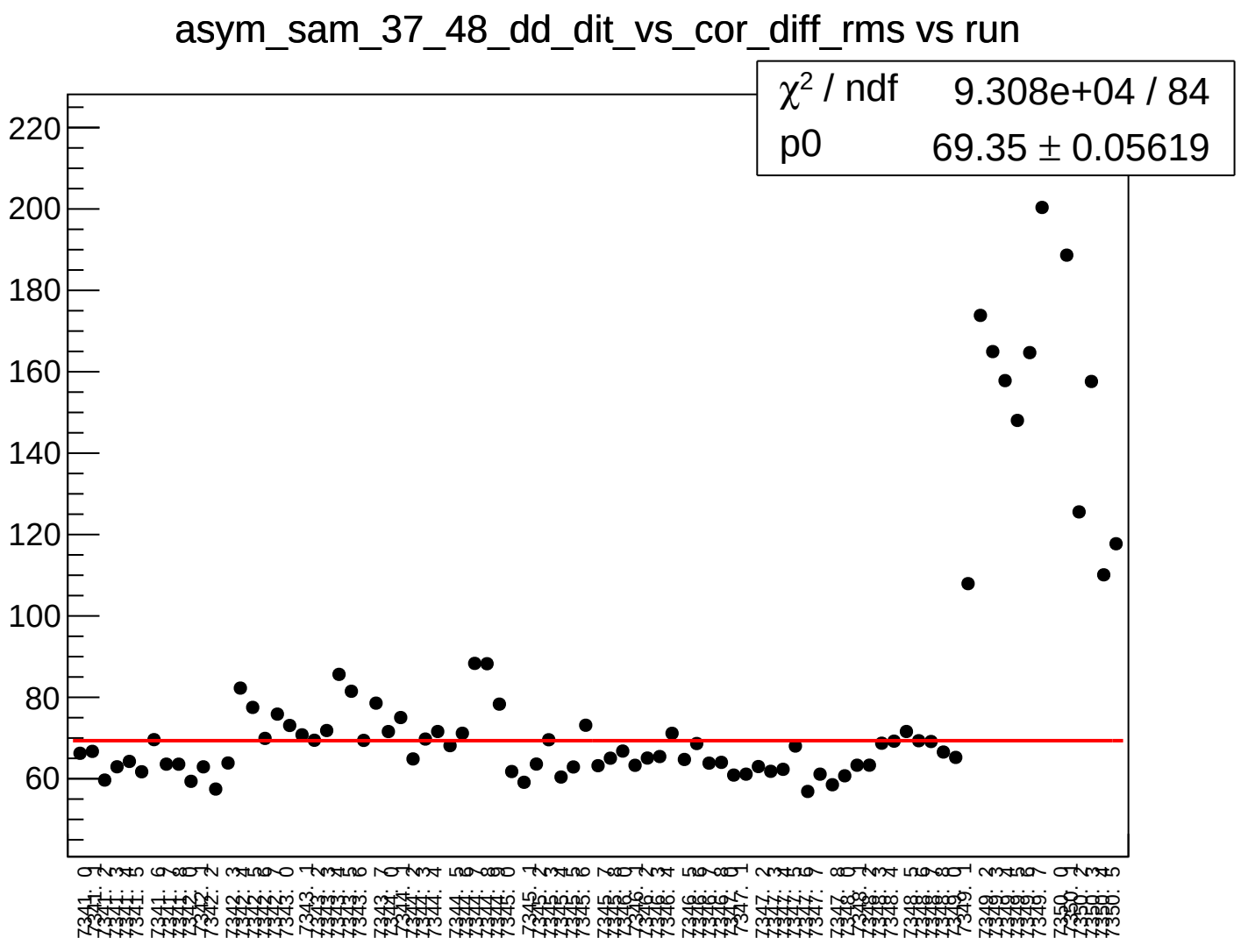

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 9864 / 84
p0 504.8 ± 0.3983
600
550
500
450
400

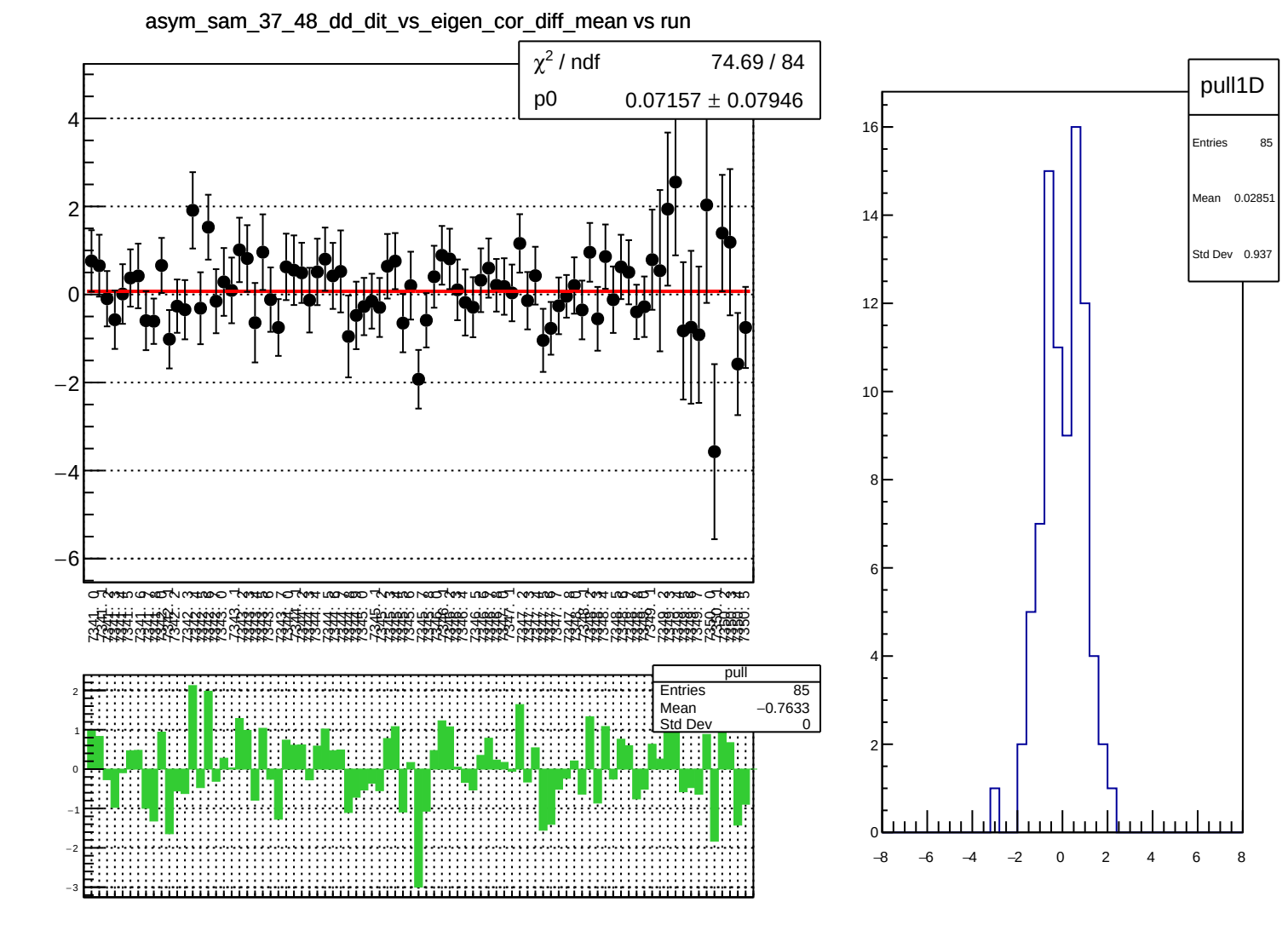

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.73 / 84
p0 6.033e−14 ± 2.745e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 85
Mean 36.42
Std Dev 57.61
3
2
1
0
−1
−2

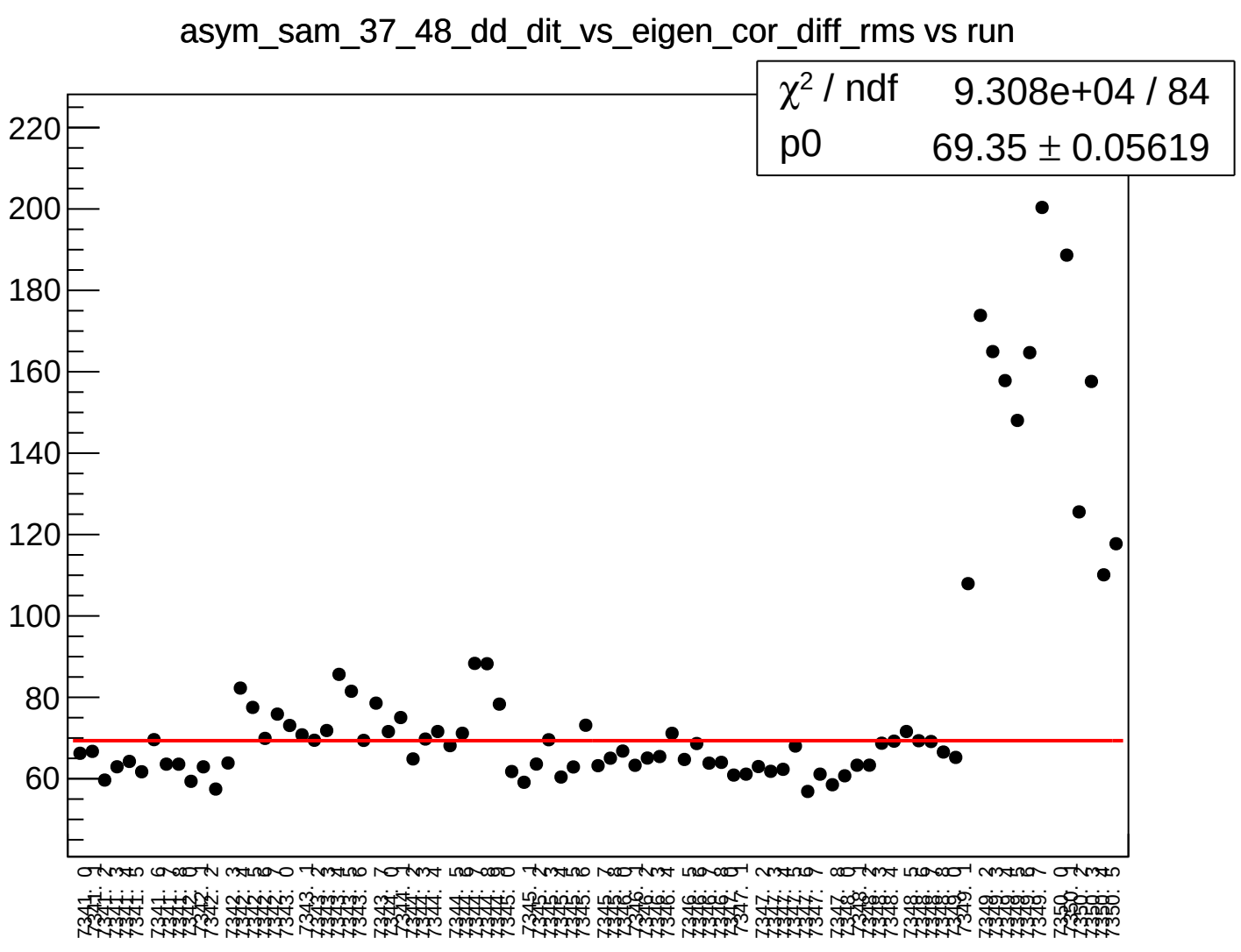

pull1D
Entries 85
Mean −0.03593
Std Dev 0.9799
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

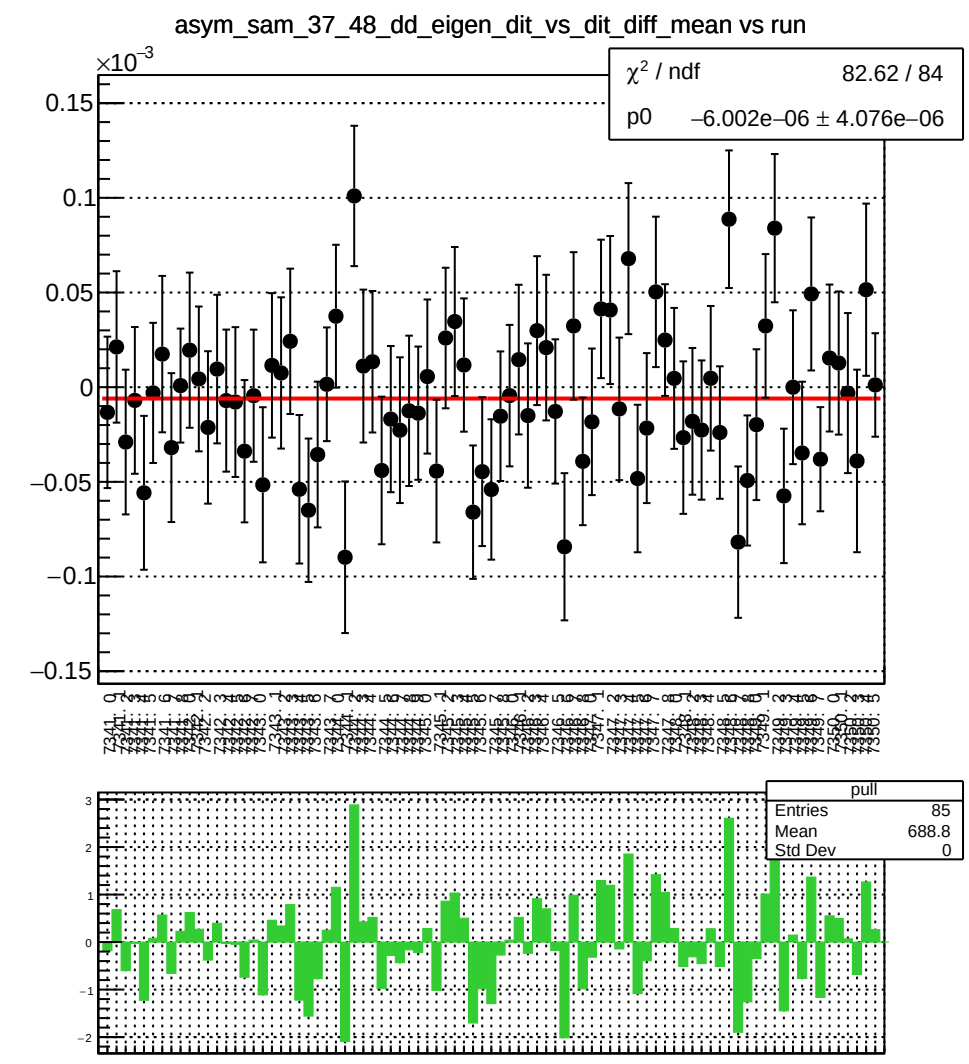

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.186e+06 / 84
p0 1.273e−11 ± 1.941e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

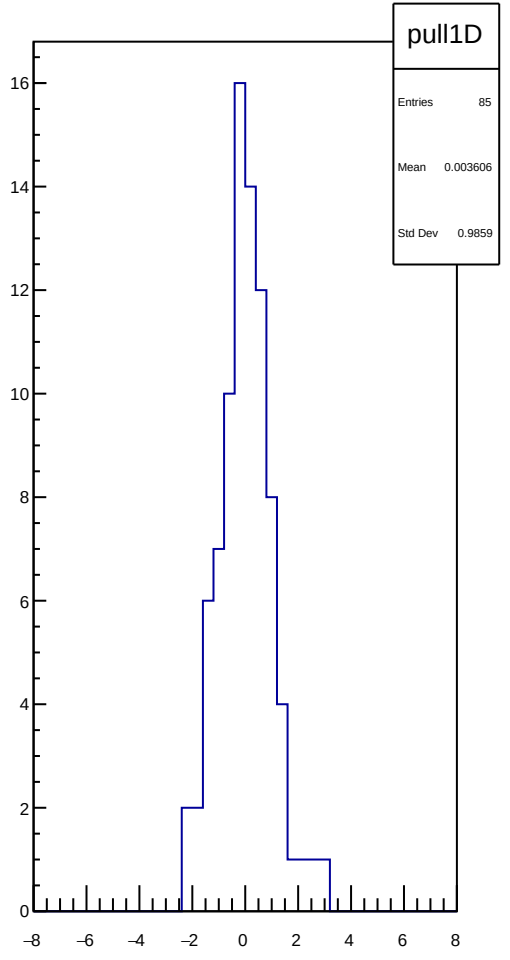

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.69 / 84
p0 0.07157 ± 0.07946
pull
Entries 85
Mean −0.7633
Std Dev 0
pull1D
Entries 85
Mean 0.02851
Std Dev 0.937

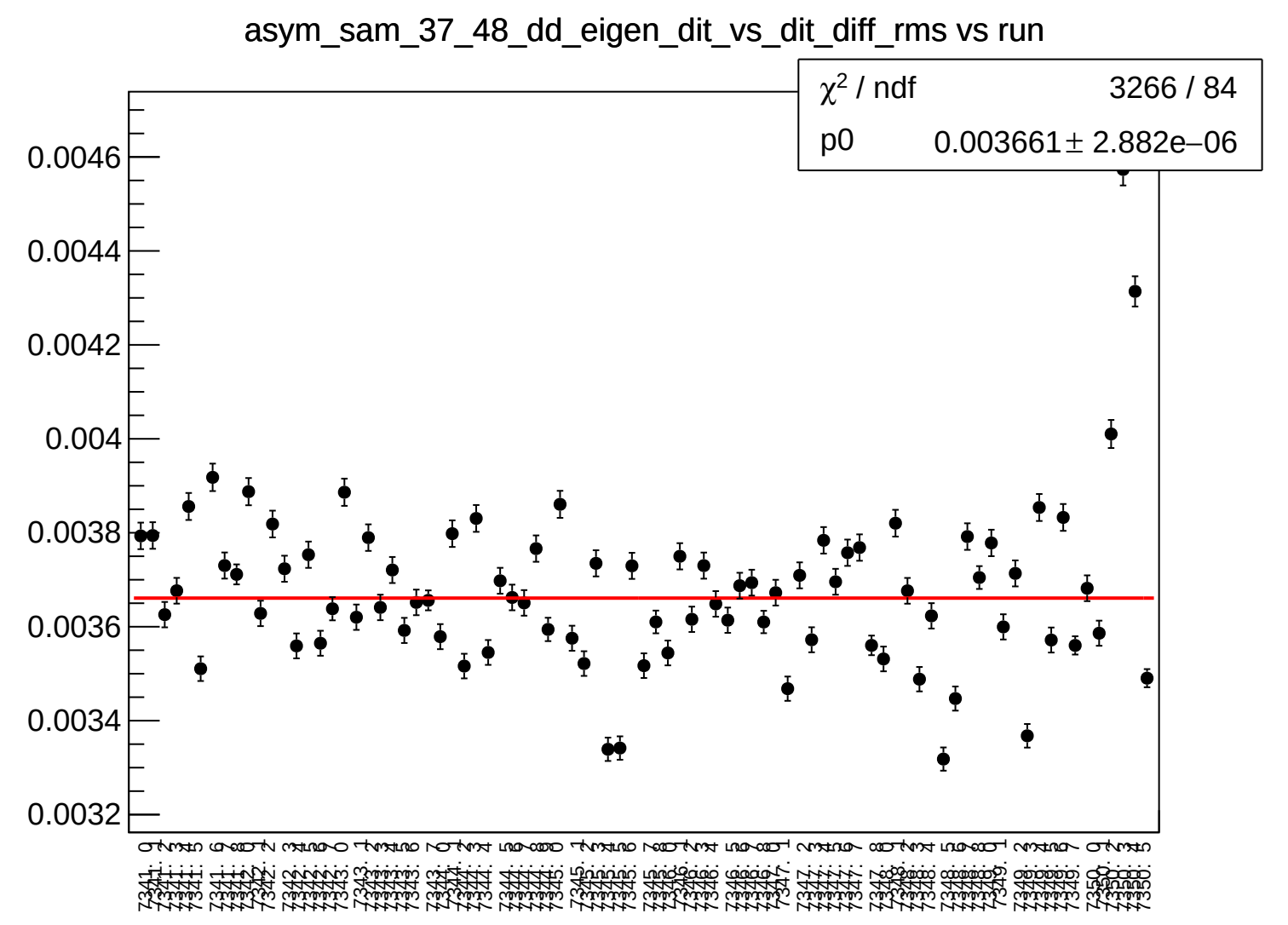

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.308e+04 / 84
p0 69.35 ± 0.05619
220
200
180
160
140
120
100
80
60

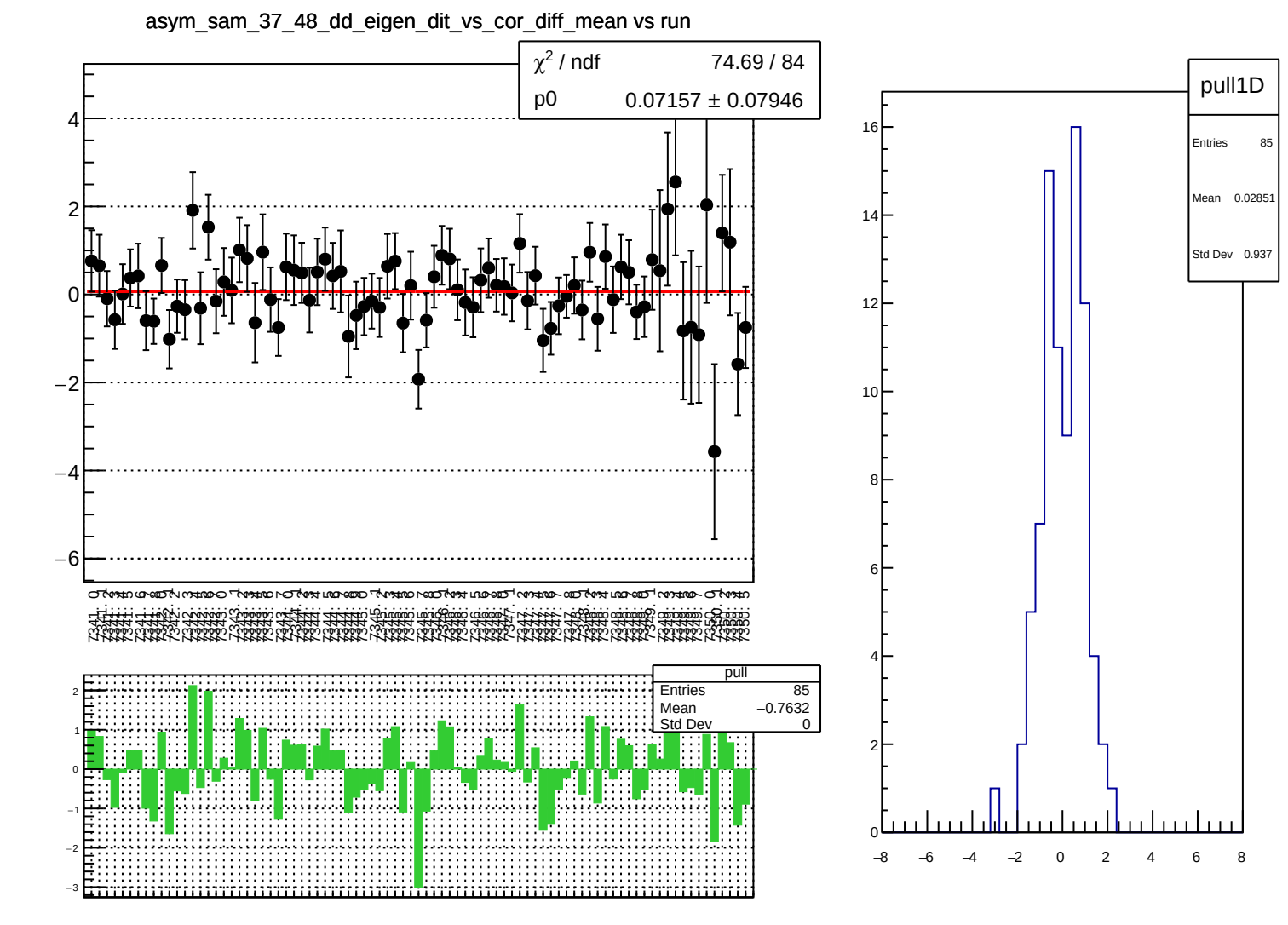

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.69 / 84
p0 0.07157 ± 0.07946
pull
Entries 85
Mean −0.7633
Std Dev 0
pull1D
Entries 85
Mean 0.02851
Std Dev 0.937

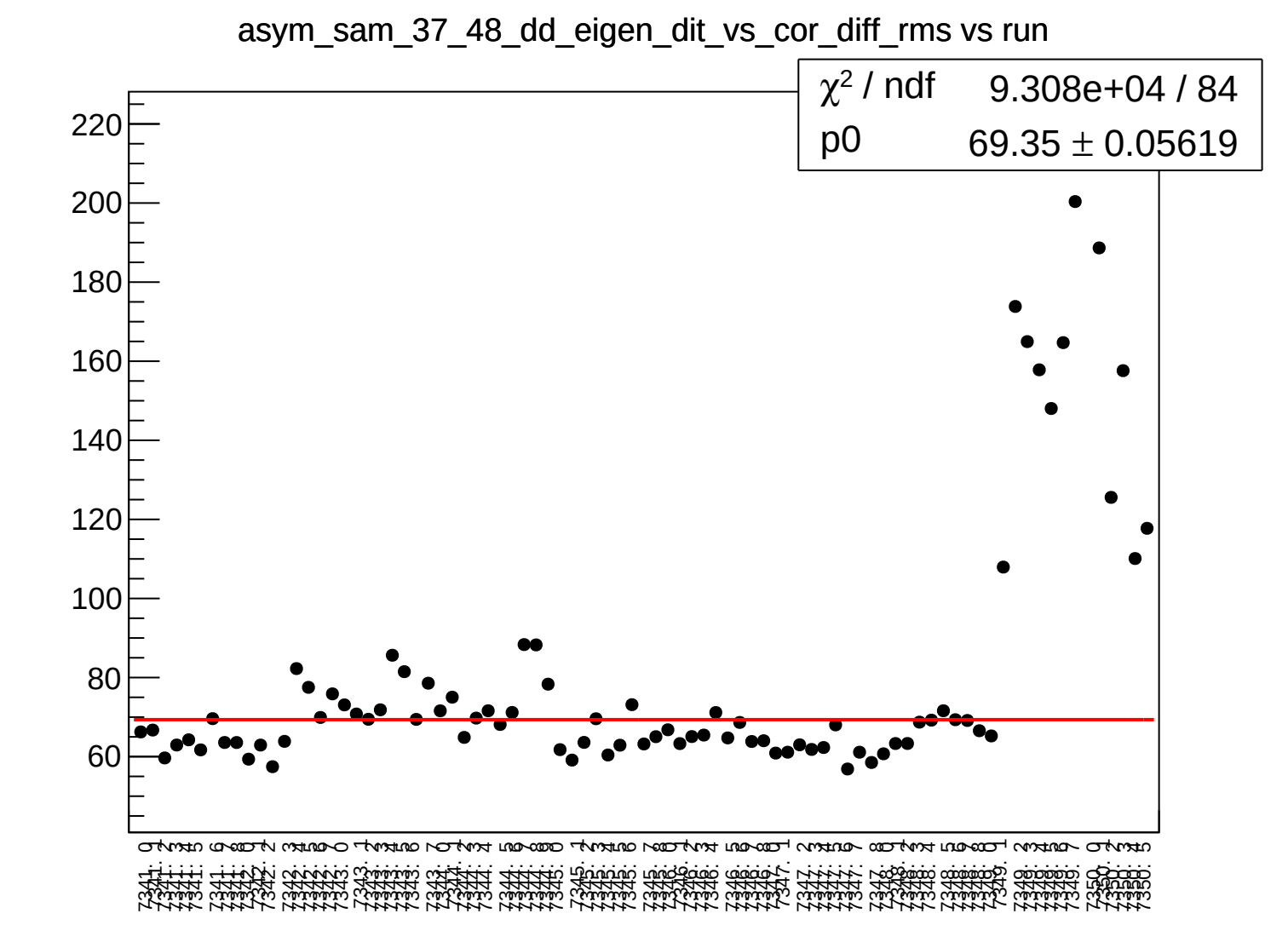

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.308e+04 / 84
p0 69.35 ± 0.05619
220
200
180
160
140
120
100
80
60

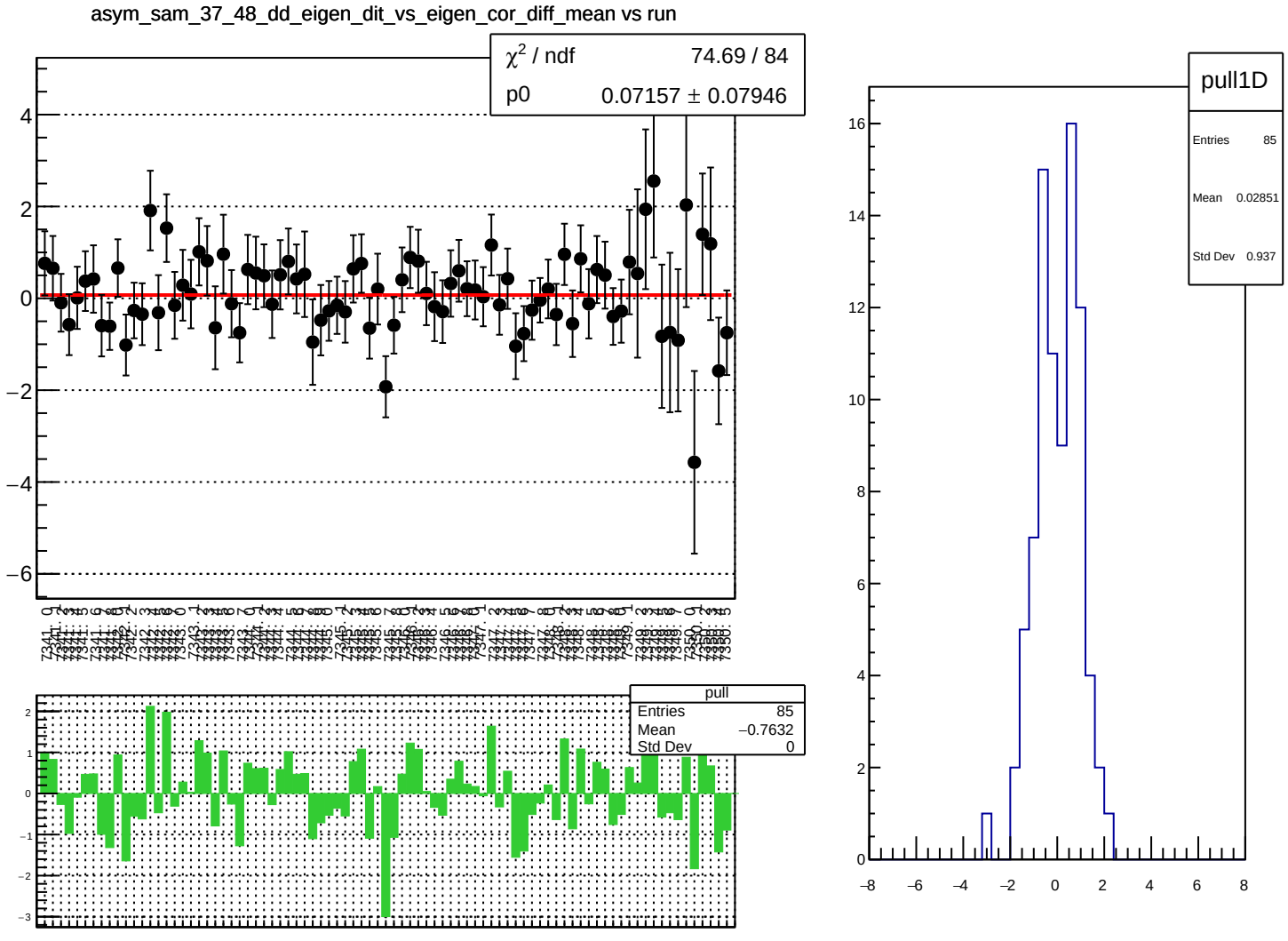

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.62 / 84
p0 −6.002e−06 ± 4.076e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean 688.8
Std Dev 0

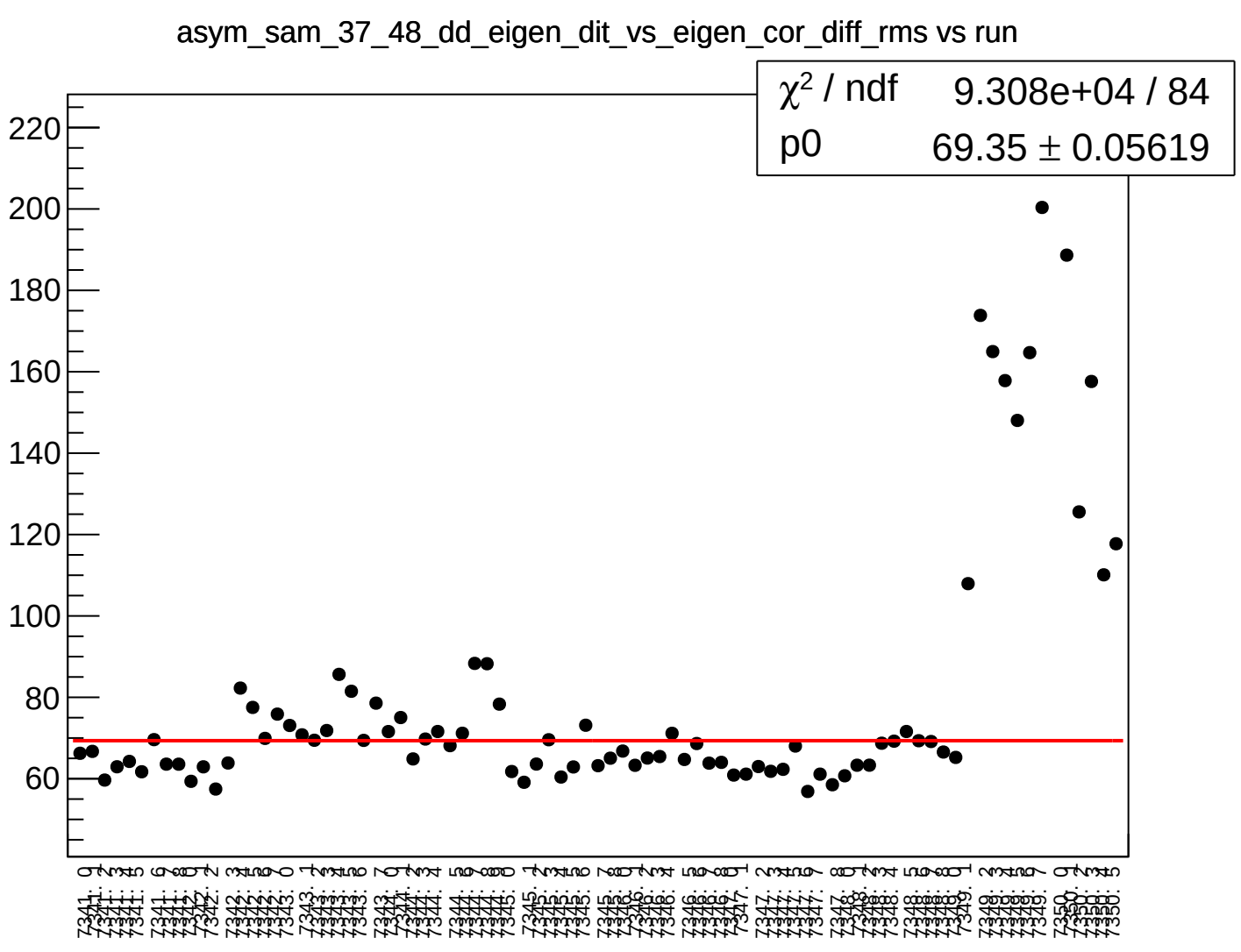

pull1D
Entries 85
Mean 0.003606
Std Dev 0.9859

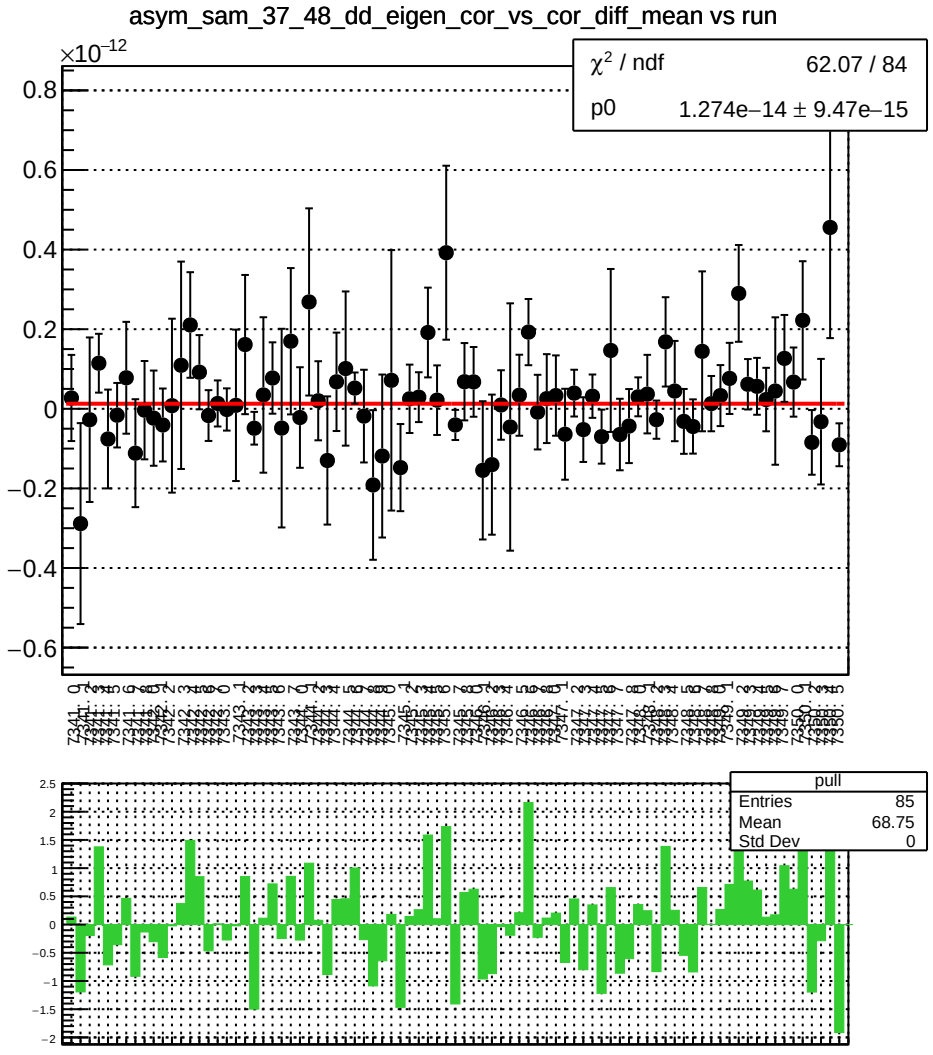

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3266 / 84
p0 0.003661 ± 2.882e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

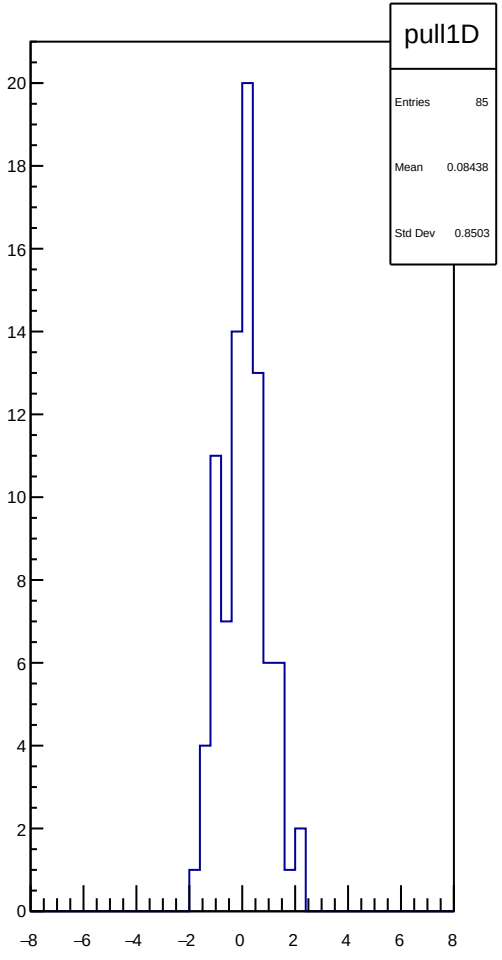

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.69 / 84
p0 0.07157 ± 0.07946
pull
Entries 85
Mean −0.7632
Std Dev 0
pull1D
Entries 85
Mean 0.02851
Std Dev 0.937

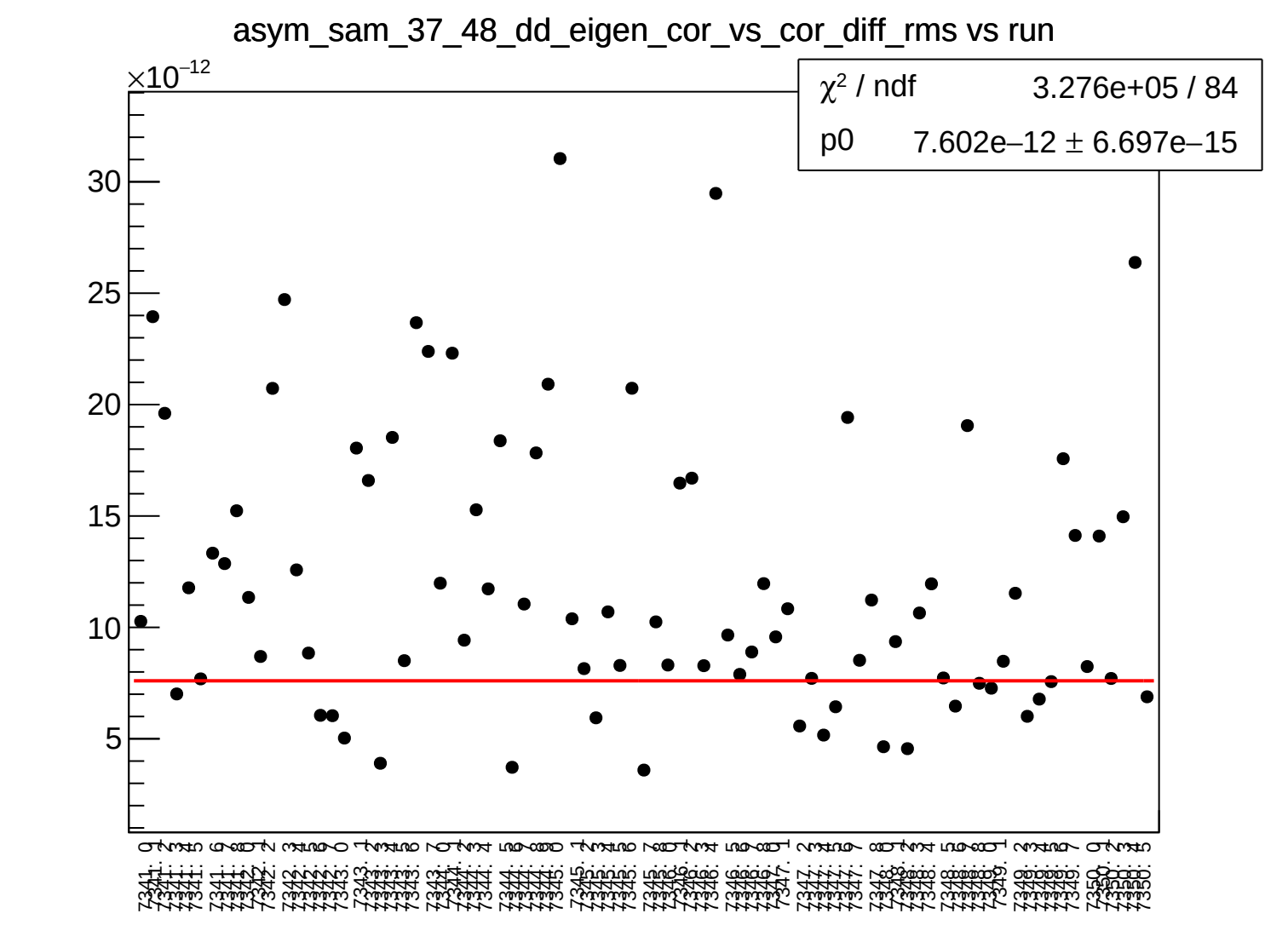

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.308e+04 / 84
p0 69.35 ± 0.05619
220
200
180
160
140
120
100
80
60

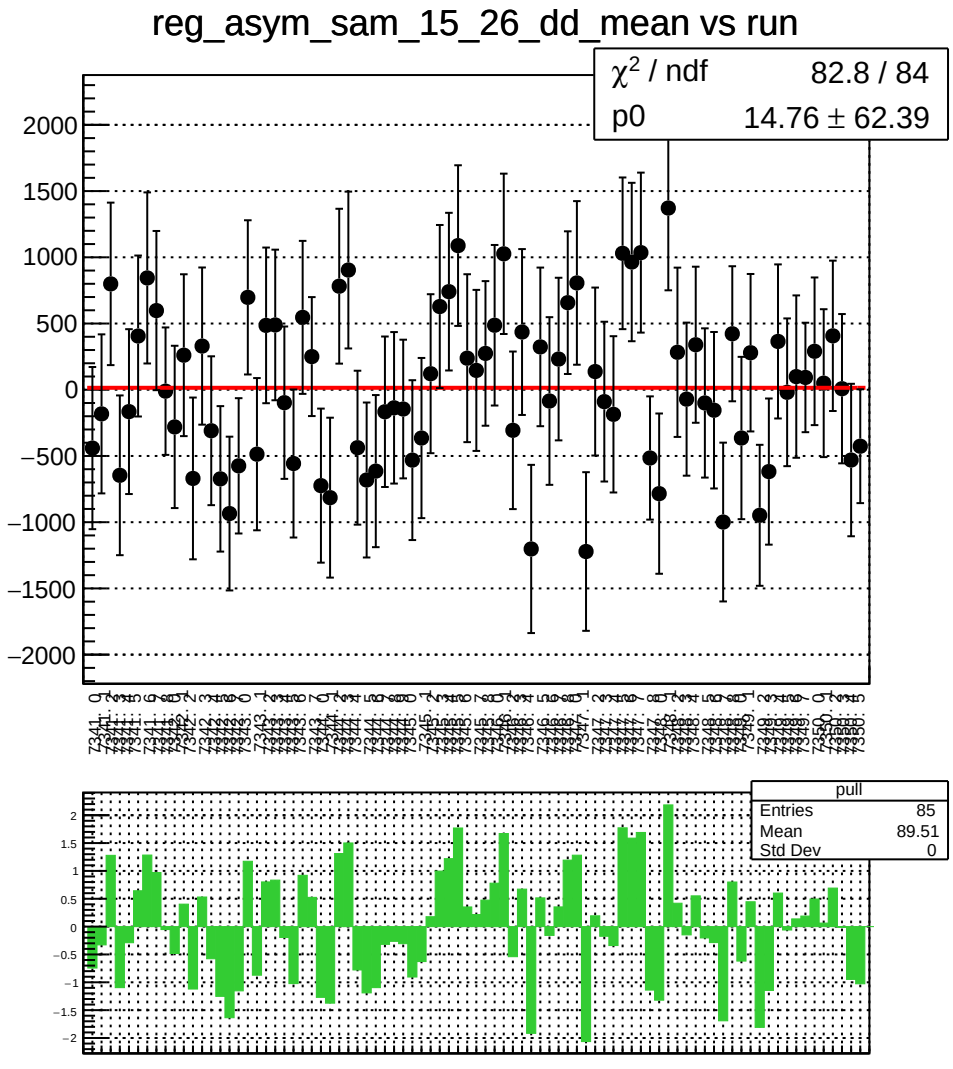

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.69 / 84
p0 0.07157 ± 0.07946
pull
Entries 85
Mean −0.7632
Std Dev 0
pull1D
Entries 85
Mean 0.02851
Std Dev 0.937

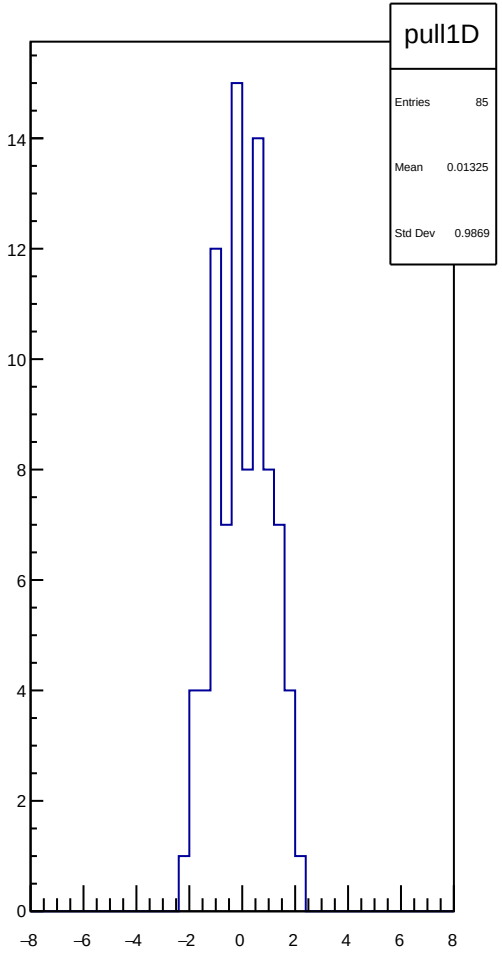

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.308e+04 / 84
p0 69.35 ± 0.05619
220
200
180
160
140
120
100
80
60

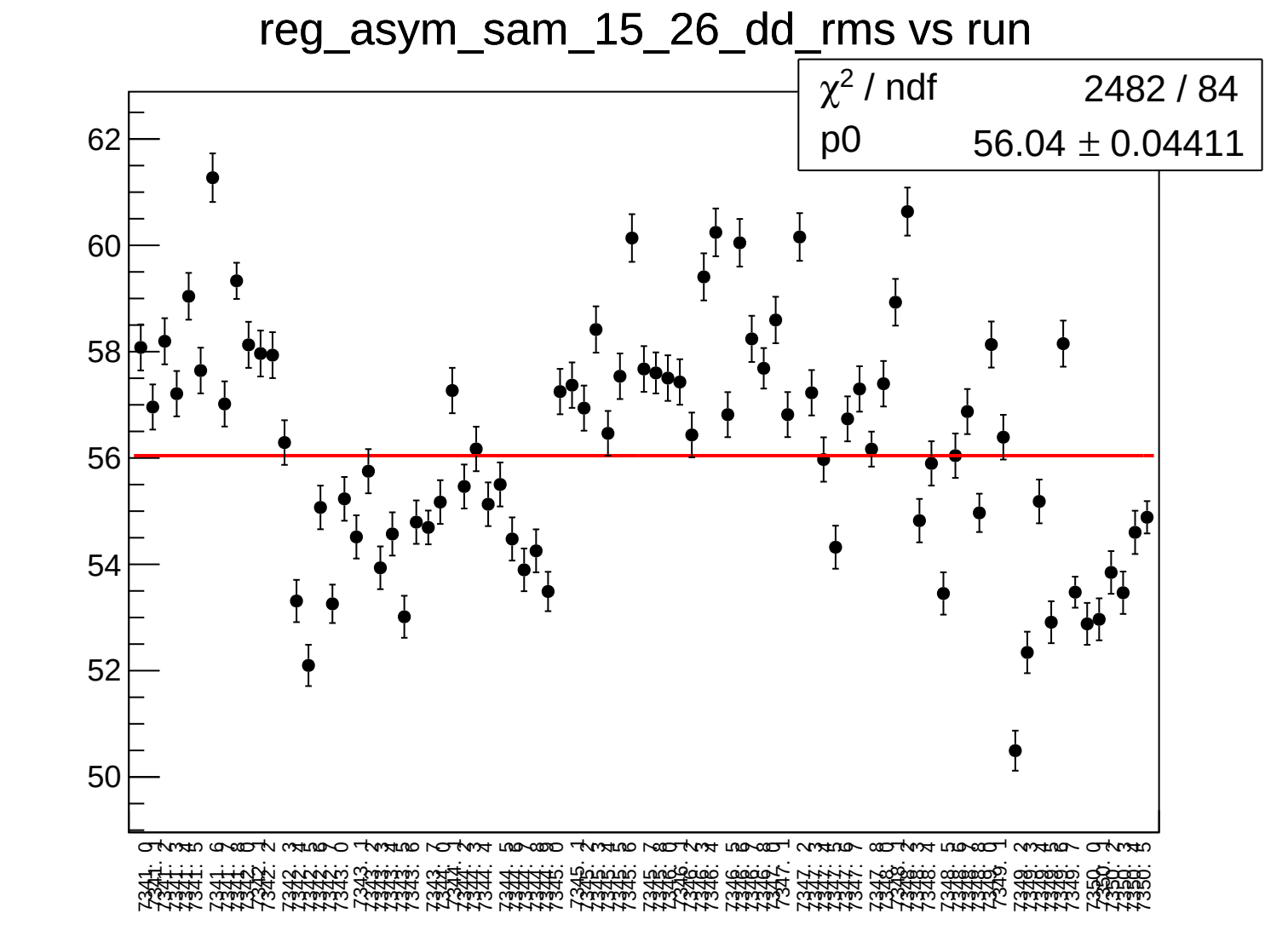

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.07 / 84
p0 1.274e−14 ± 9.47e−15
pull
Entries 85
Mean 68.75
Std Dev 0

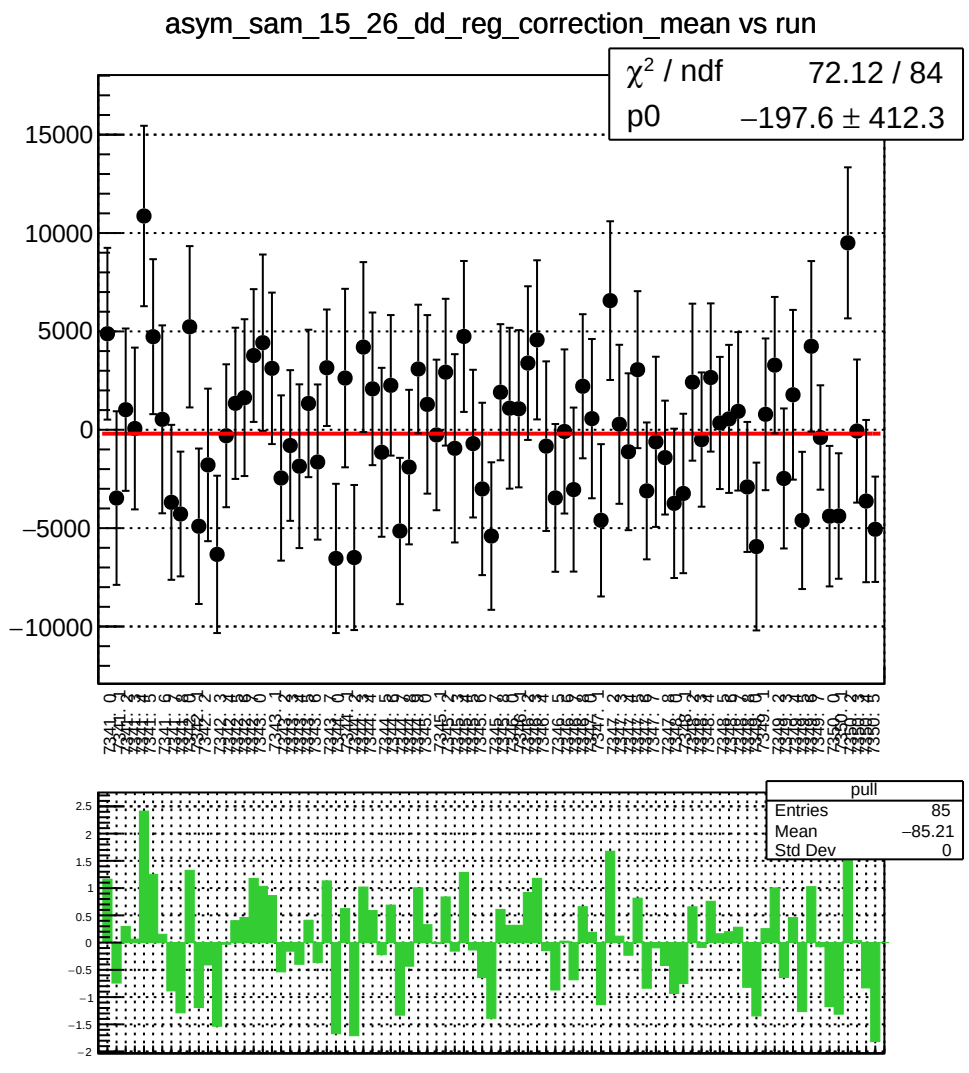

pull1D
Entries 85
Mean 0.08438
Std Dev 0.8503

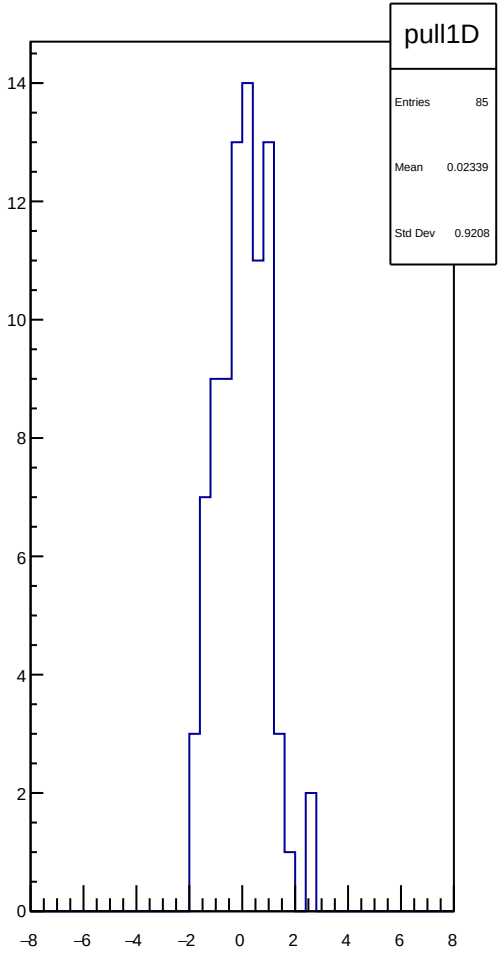

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.276e+05 / 84
p0 7.602e−12 ± 6.697e−15
30
25
20
15
10
5

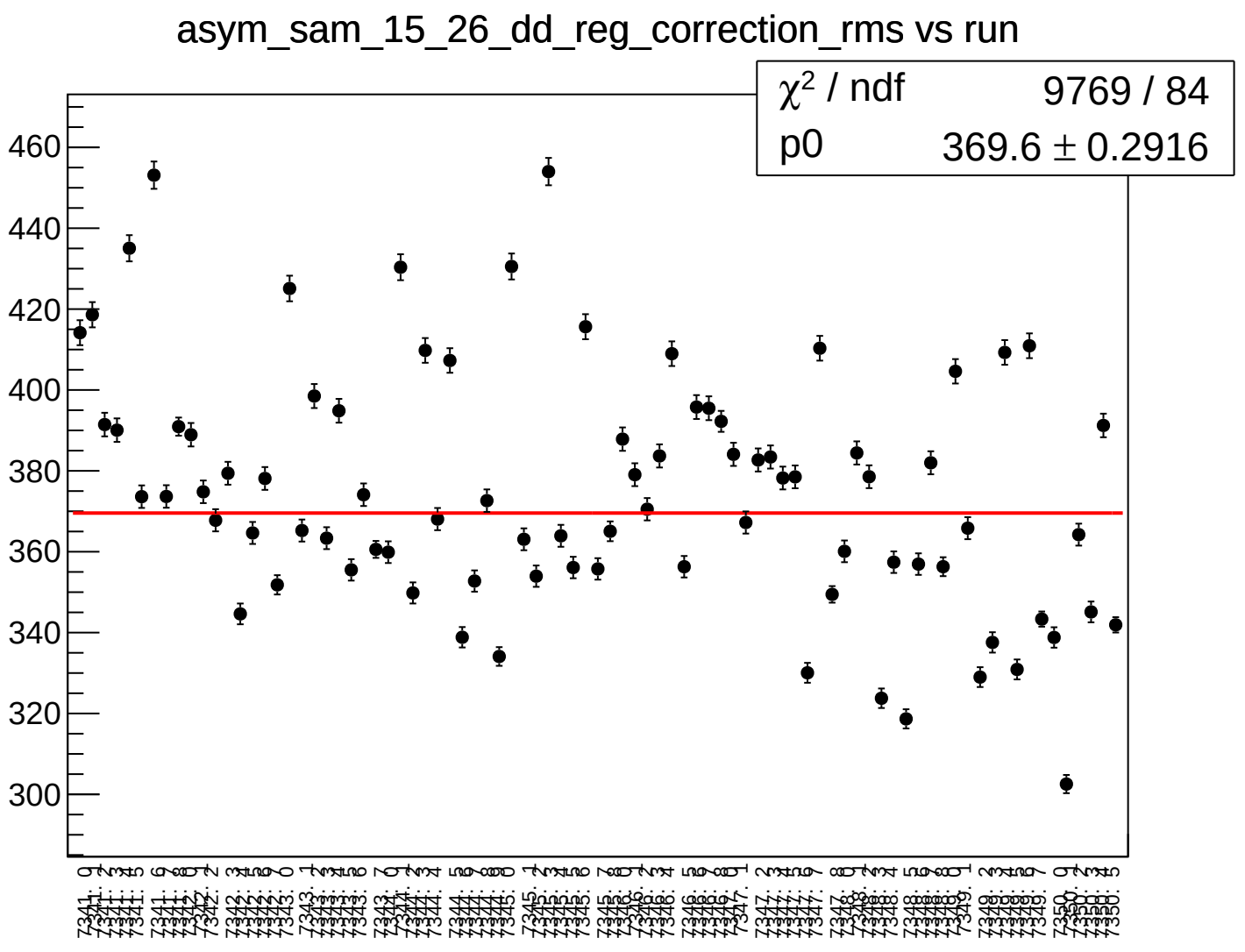

reg_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 82.8 / 84
p0 14.76 ± 62.39
pull
Entries 85
Mean 89.51
Std Dev 0

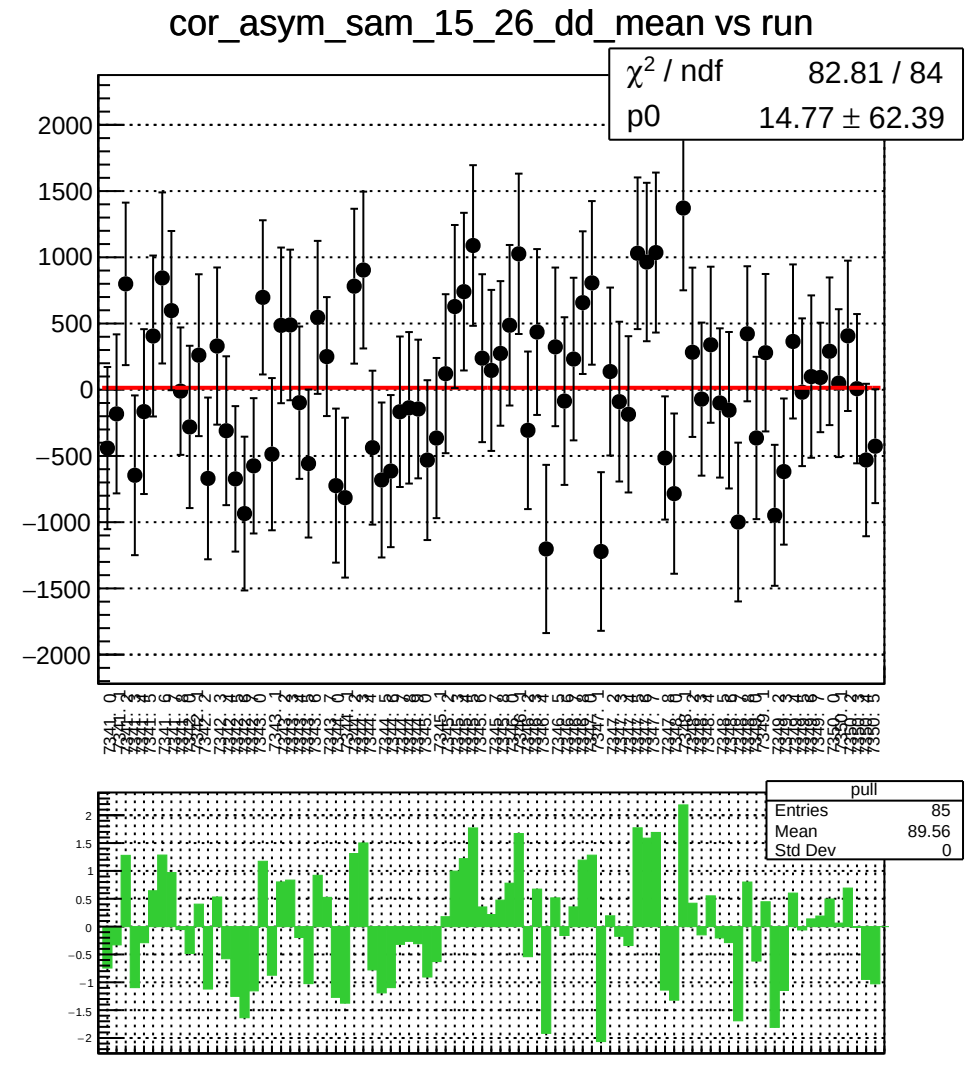

pull1D
Entries 85
Mean 0.01325
Std Dev 0.9869

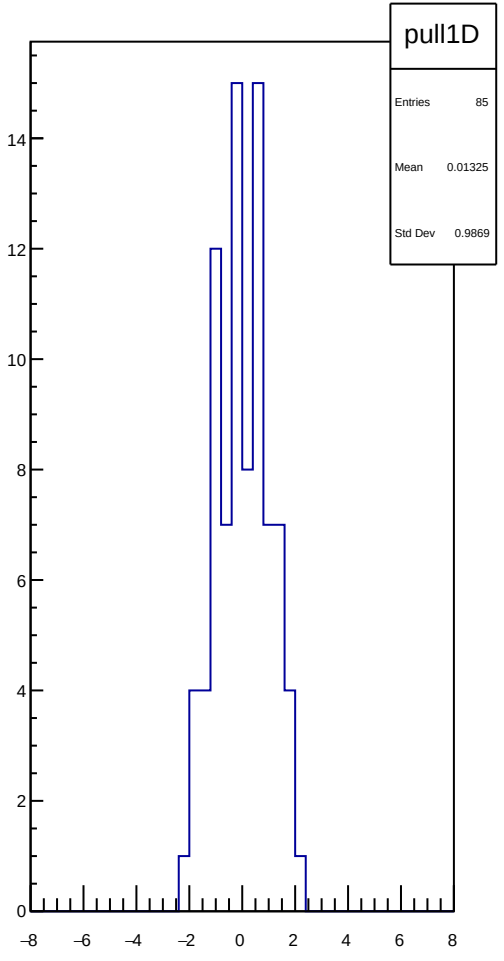

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2482 / 84
p0 56.04 ± 0.04411
62
60
58
56
54
52
50

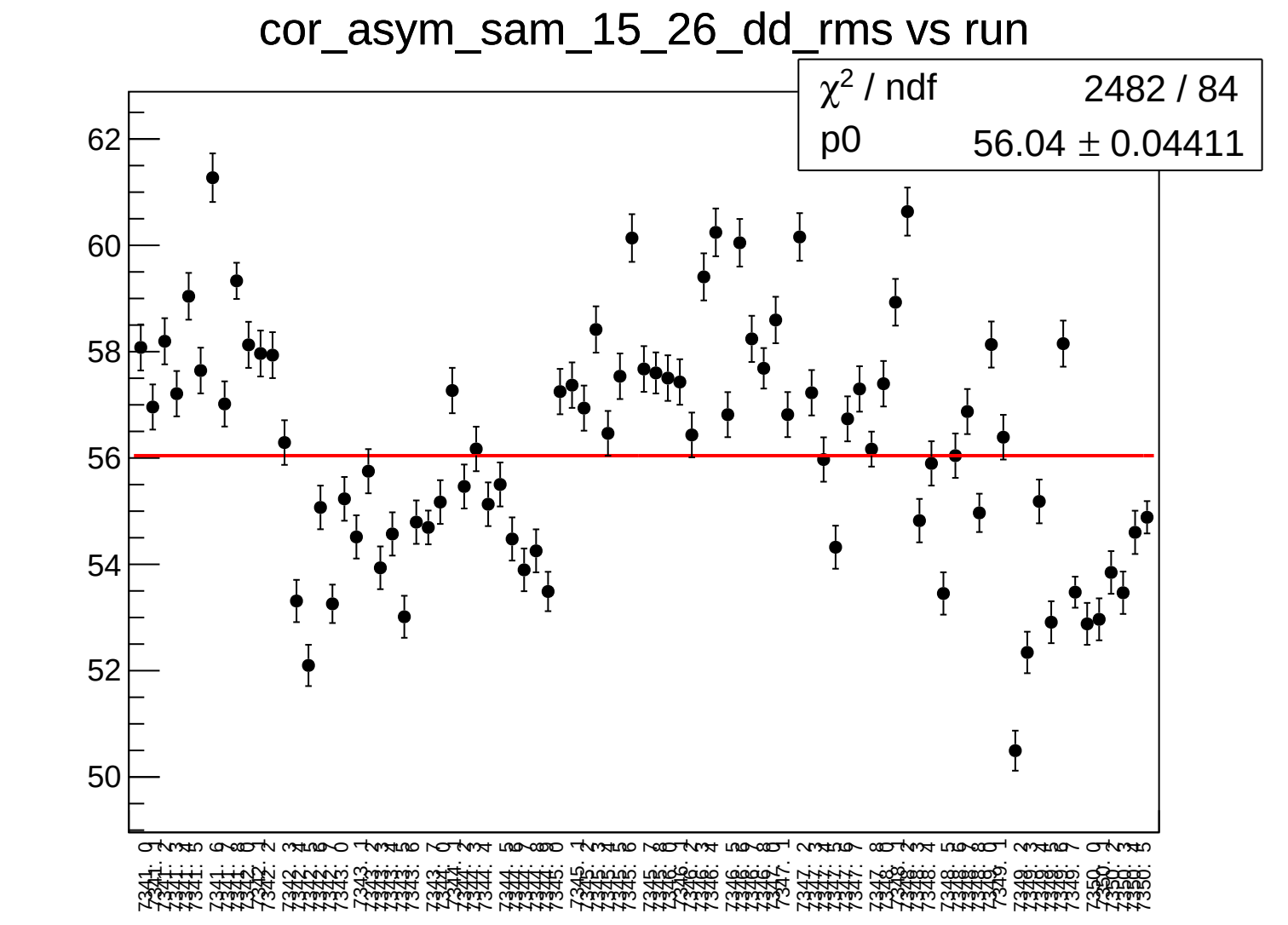

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 72.12 / 84
p0 −197.6 ± 412.3
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −85.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

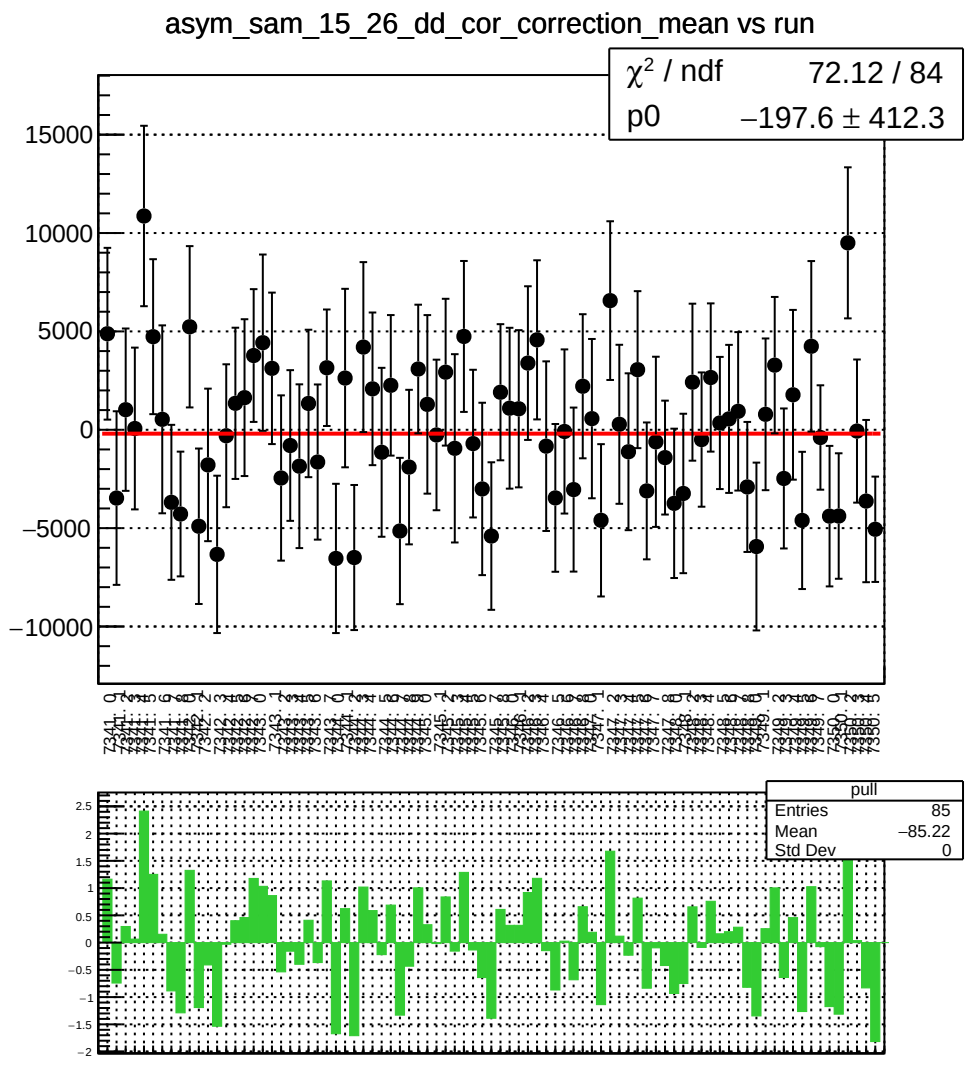

pull1D
Entries 85
Mean 0.02339
Std Dev 0.9208
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

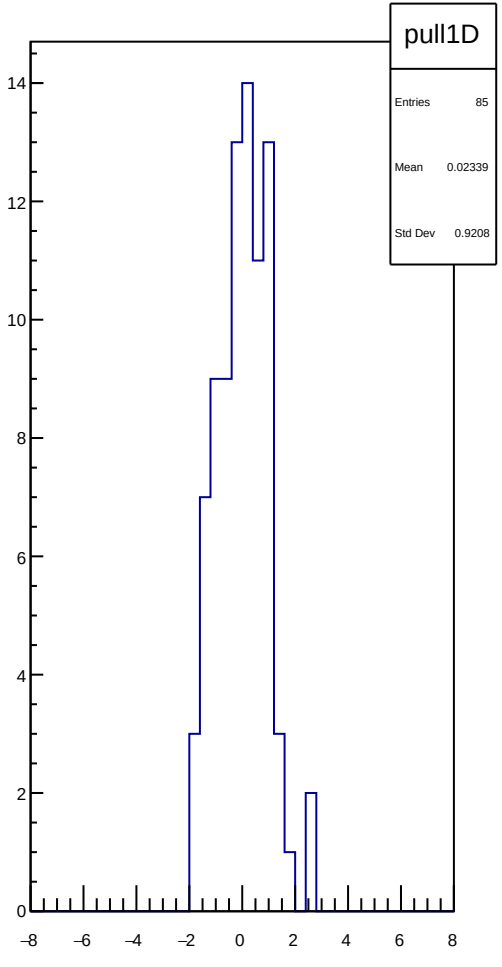

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 9769 / 84
p0 369.6 ± 0.2916
460
440
420
400
380
360
340
320
300

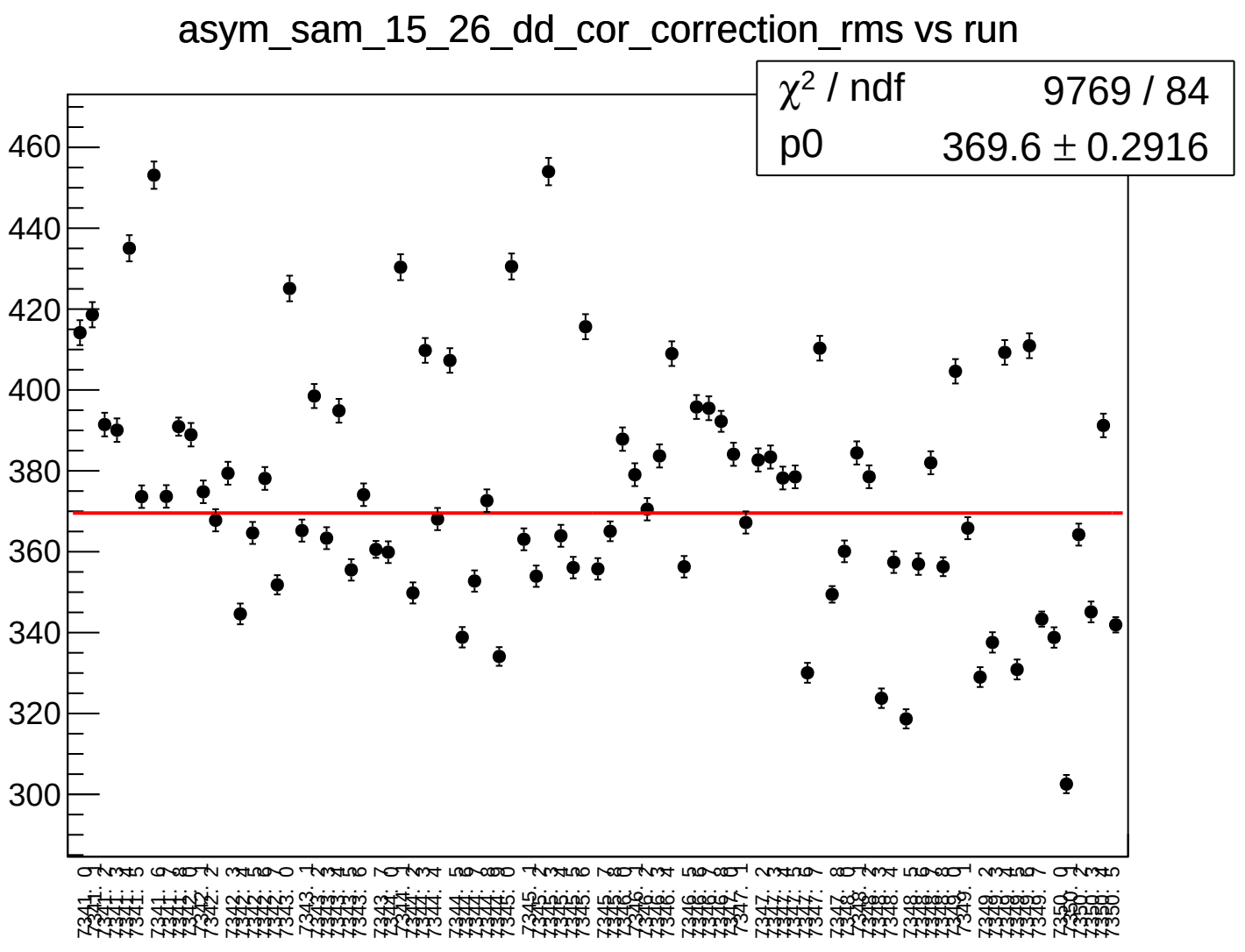

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.81 / 84
p0 14.77 ± 62.39
pull
Entries 85
Mean 89.56
Std Dev 0

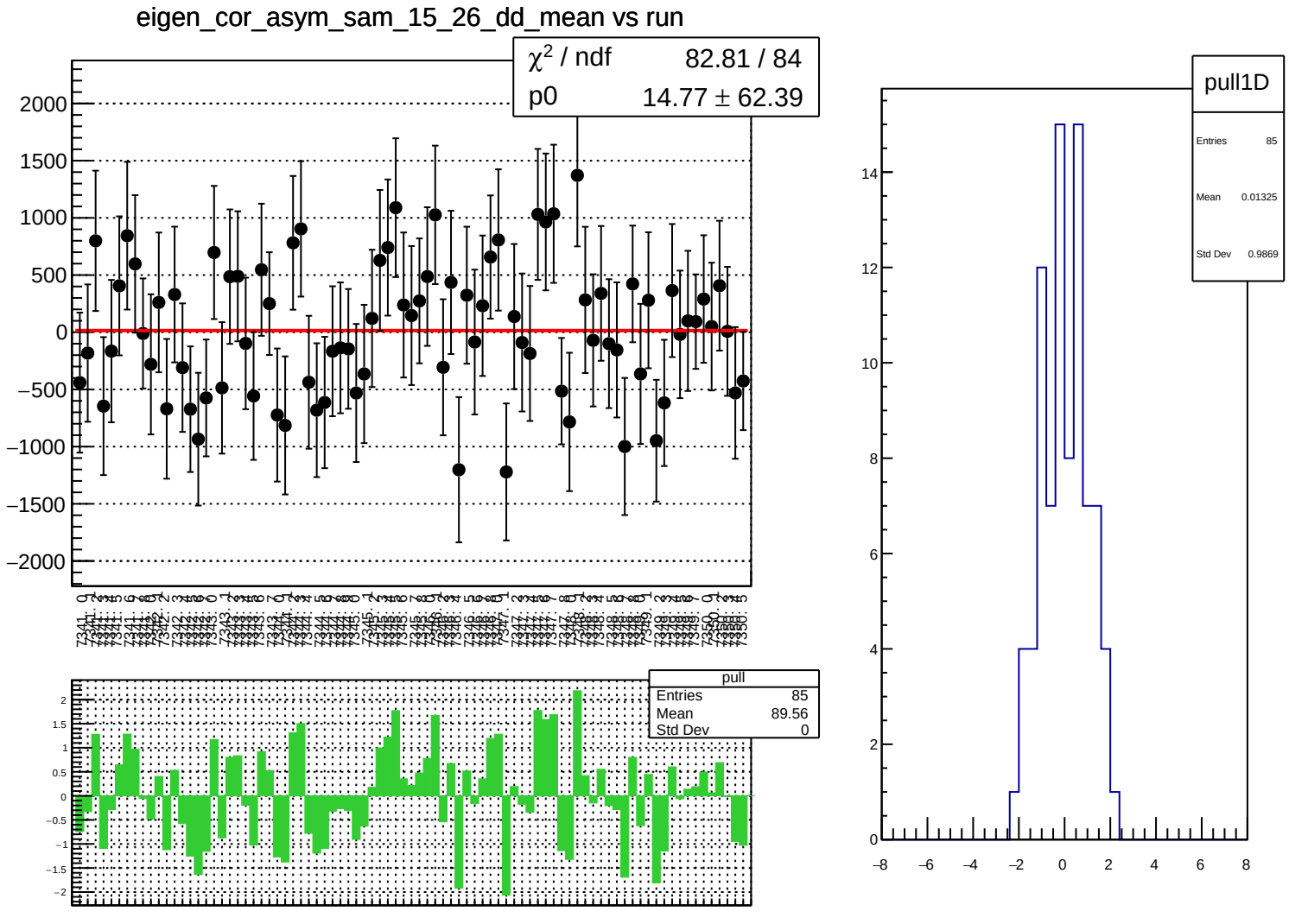

pull1D
Entries 85
Mean 0.01325
Std Dev 0.9869

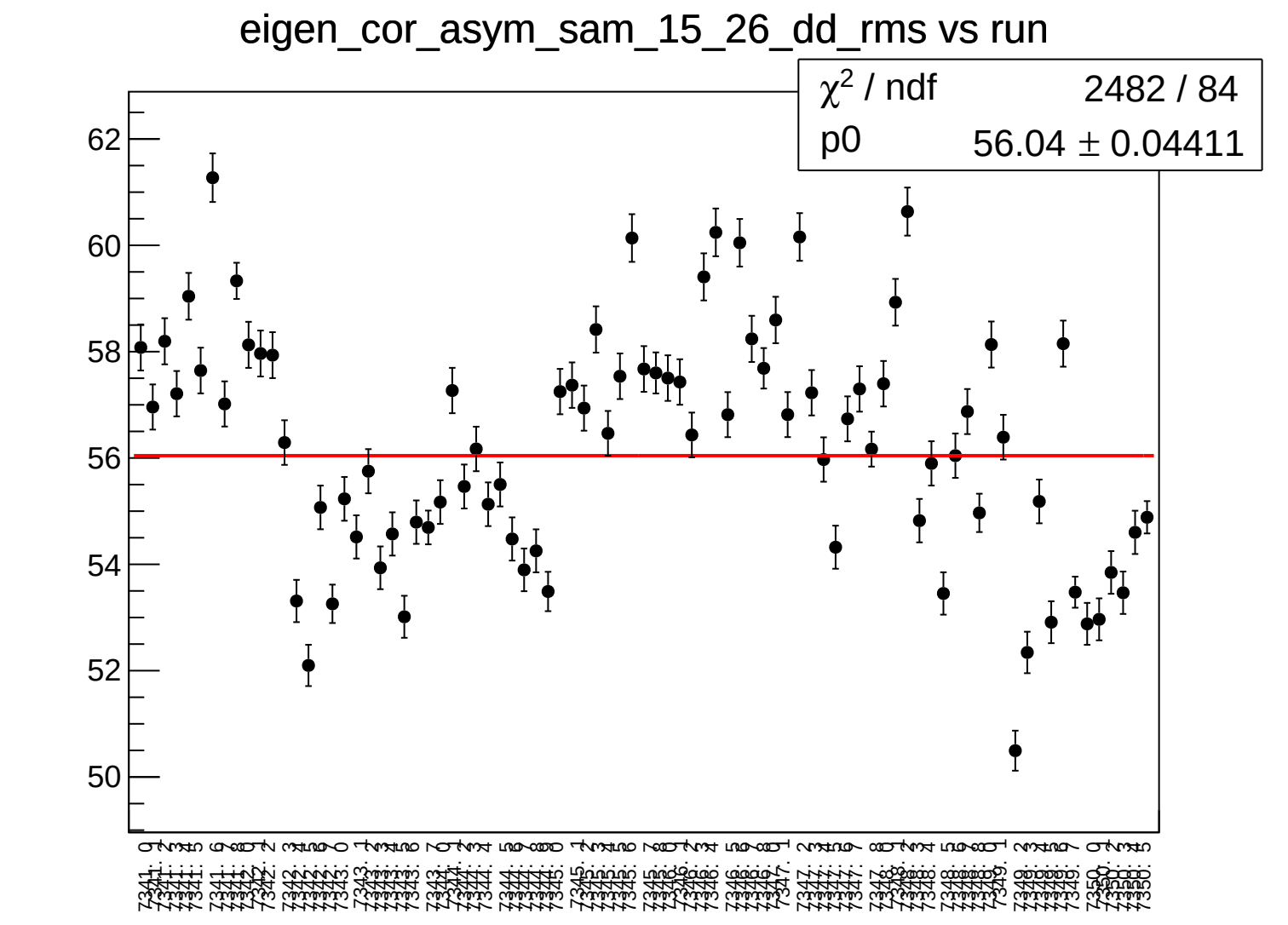

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2482 / 84
p0 56.04 ± 0.04411
62
60
58
56
54
52
50

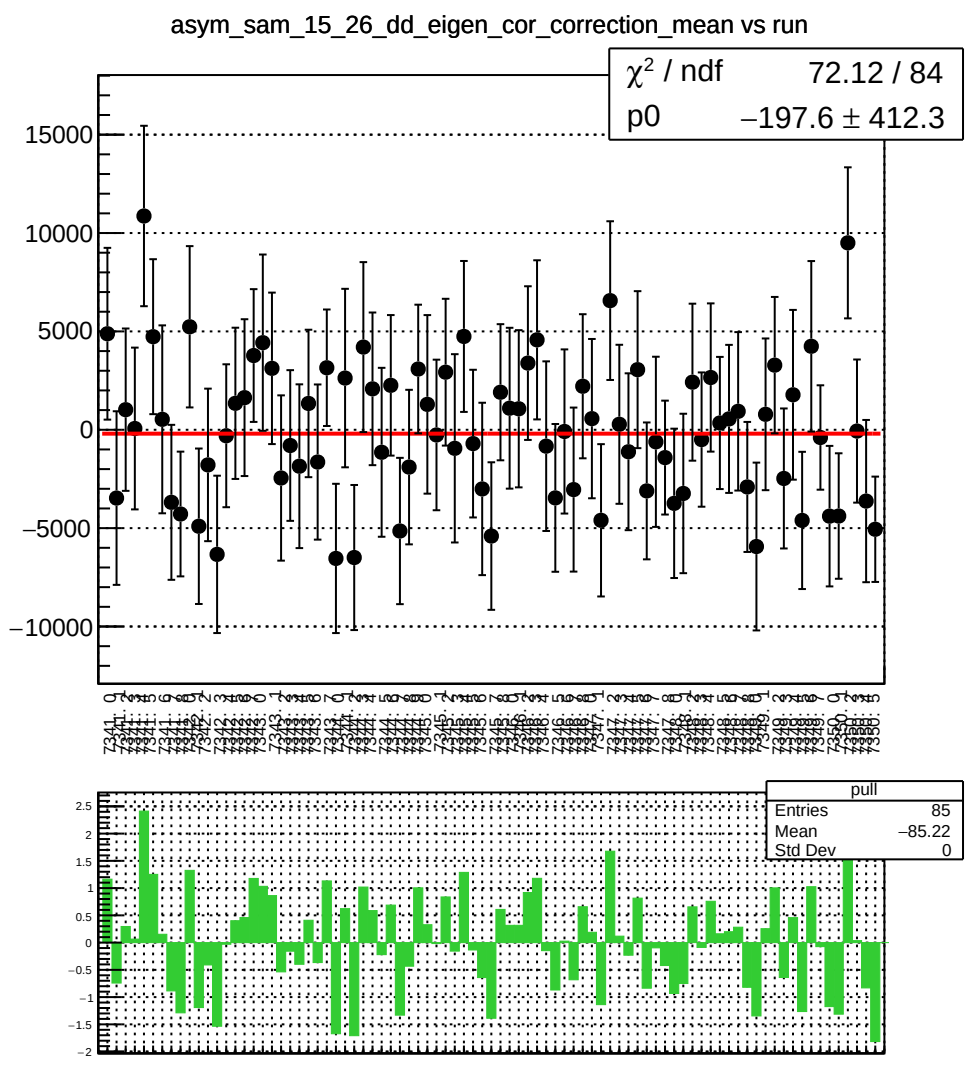

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 72.12 / 84
p0 −197.6 ± 412.3
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −85.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

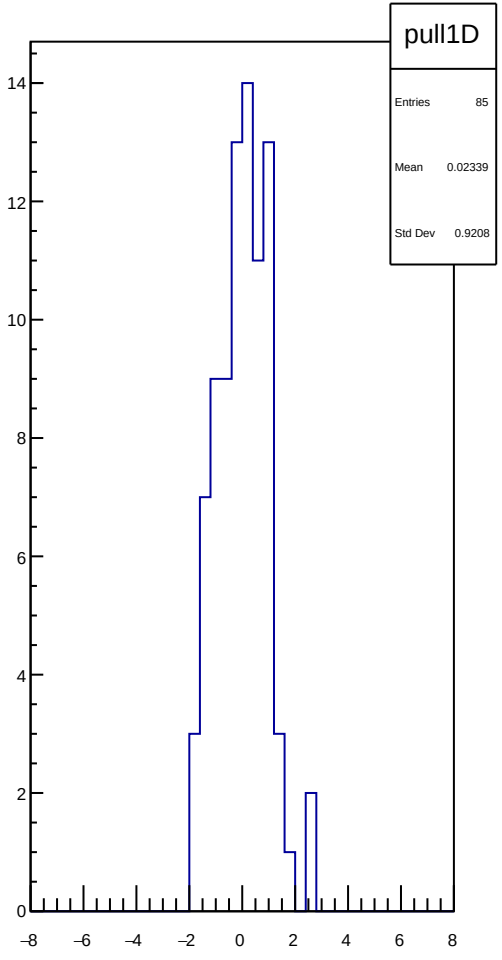

pull1D
Entries 85
Mean 0.02339
Std Dev 0.9208
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

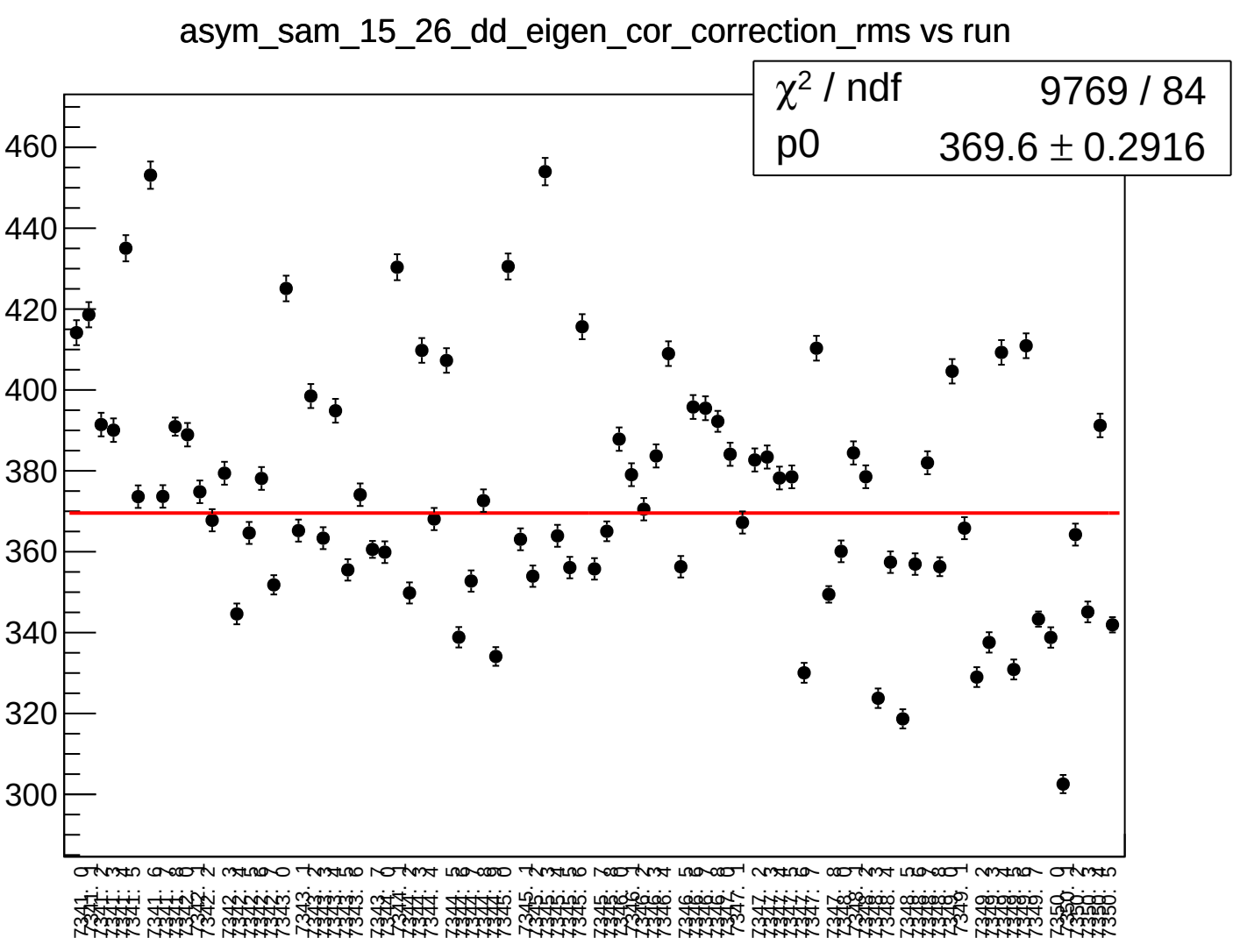

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 9769 / 84
p0 369.6 ± 0.2916
460
440
420
400
380
360
340
320
300

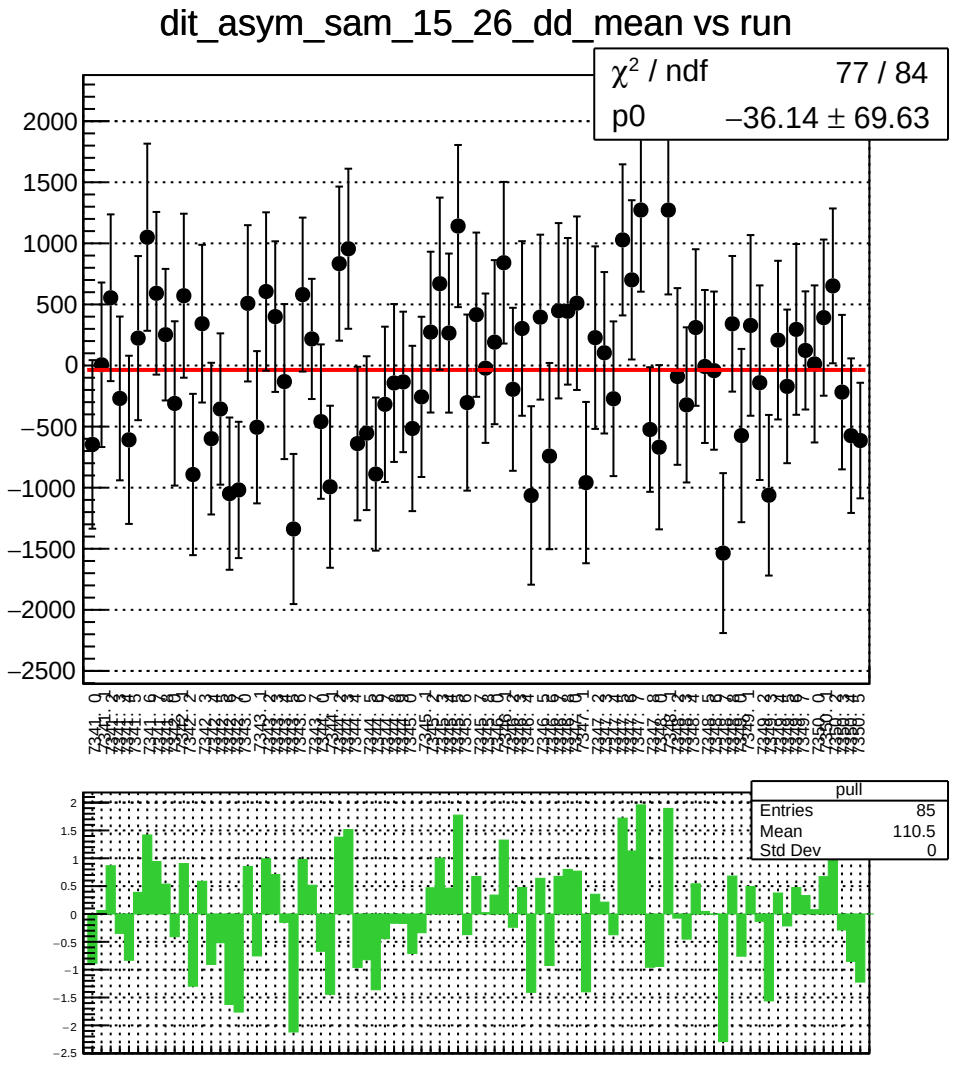

eigen_cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 82.81 / 84
p0 14.77 ± 62.39
pull
Entries 85
Mean 89.56
Std Dev 0
pull1D
Entries 85
Mean 0.01325
Std Dev 0.9869

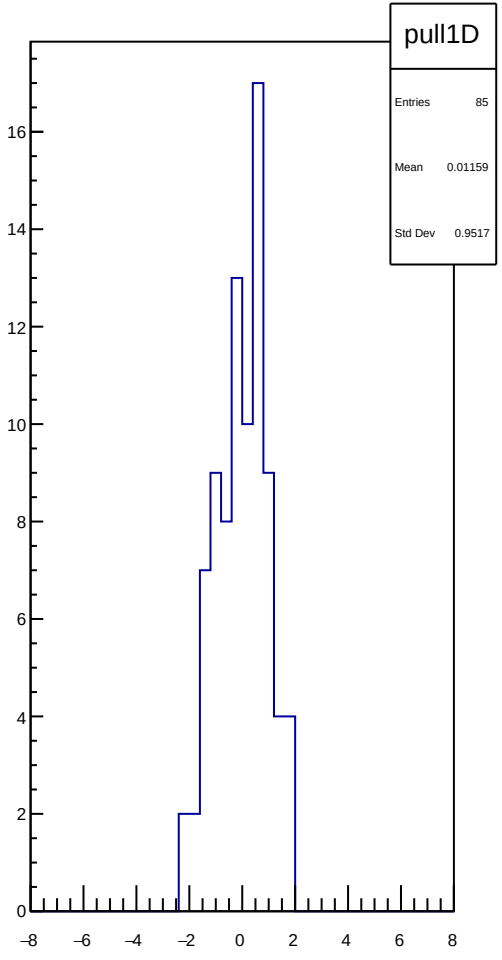

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2482 / 84
p0 56.04 ± 0.04411
62
60
58
56
54
52
50

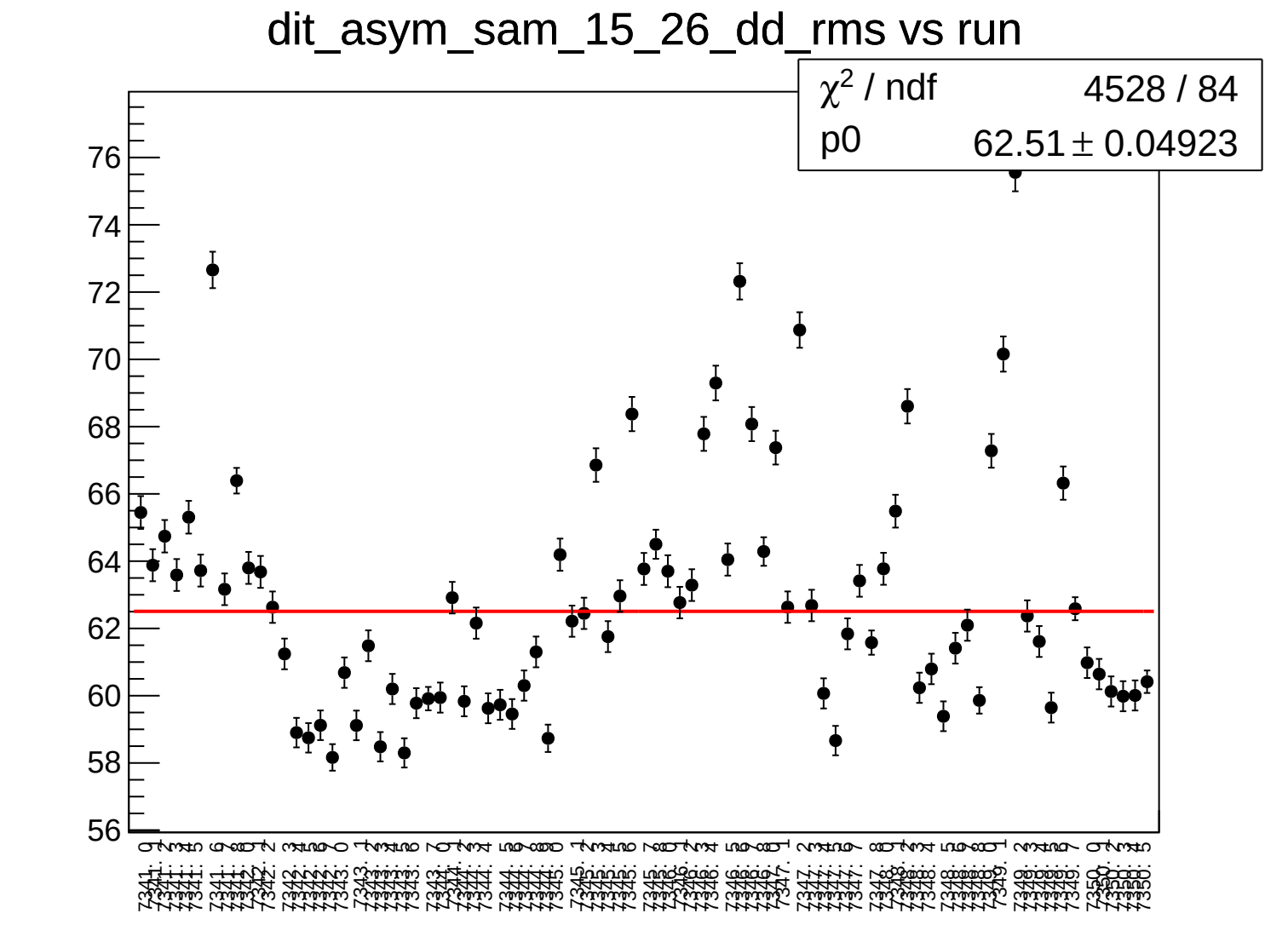

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.12 / 84
p0 −197.6 ± 412.3
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −85.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

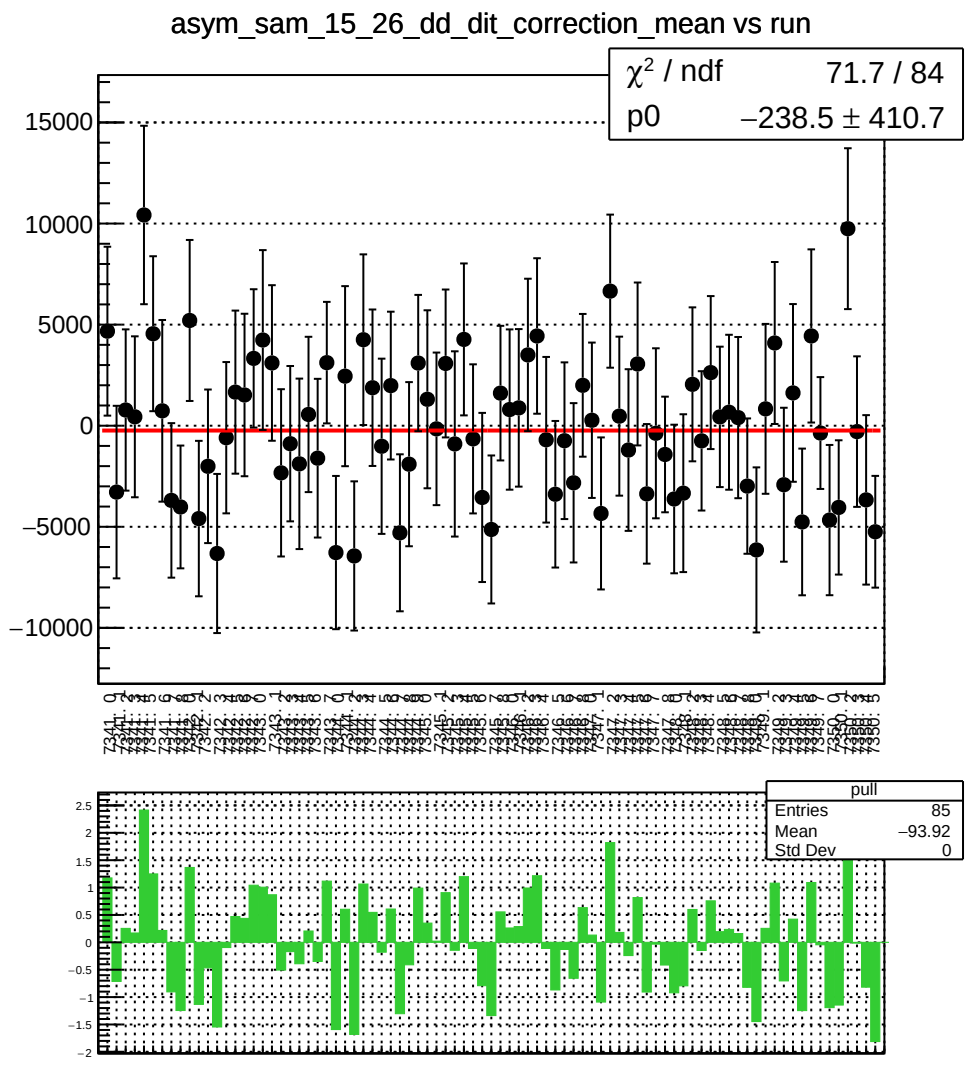

pull1D
Entries 85
Mean 0.02339
Std Dev 0.9208
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

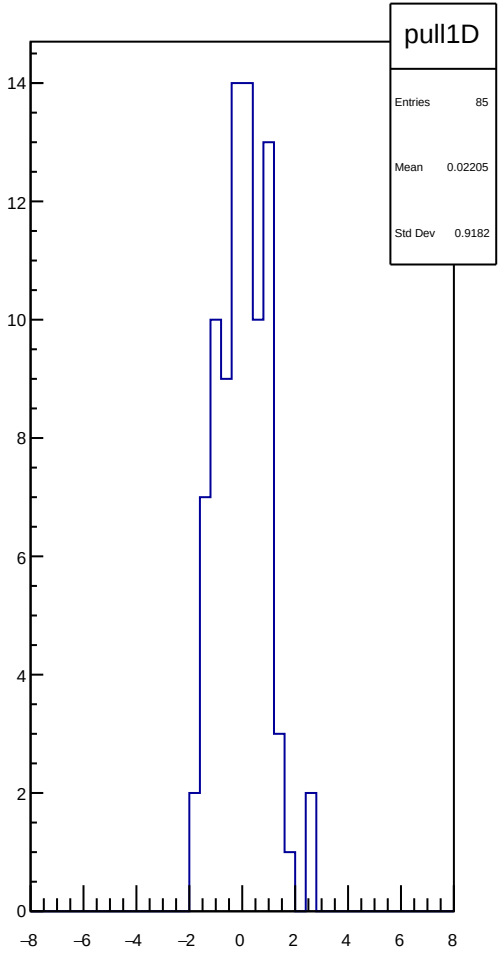

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 9769 / 84
p0 369.6 ± 0.2916
460
440
420
400
380
360
340
320
300

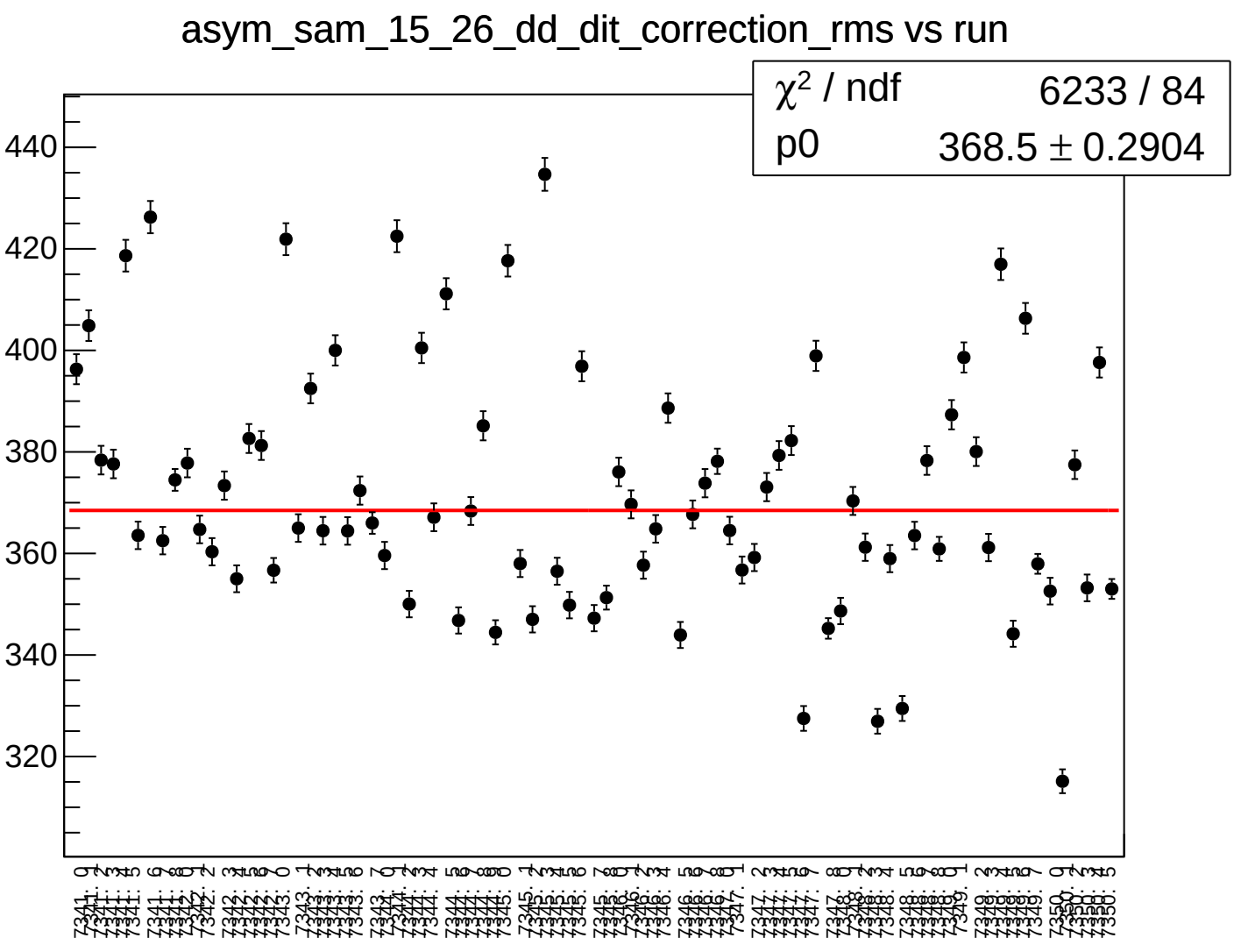

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 77 / 84
p0 −36.14 ± 69.63
pull
Entries 85
Mean 110.5
Std Dev 0

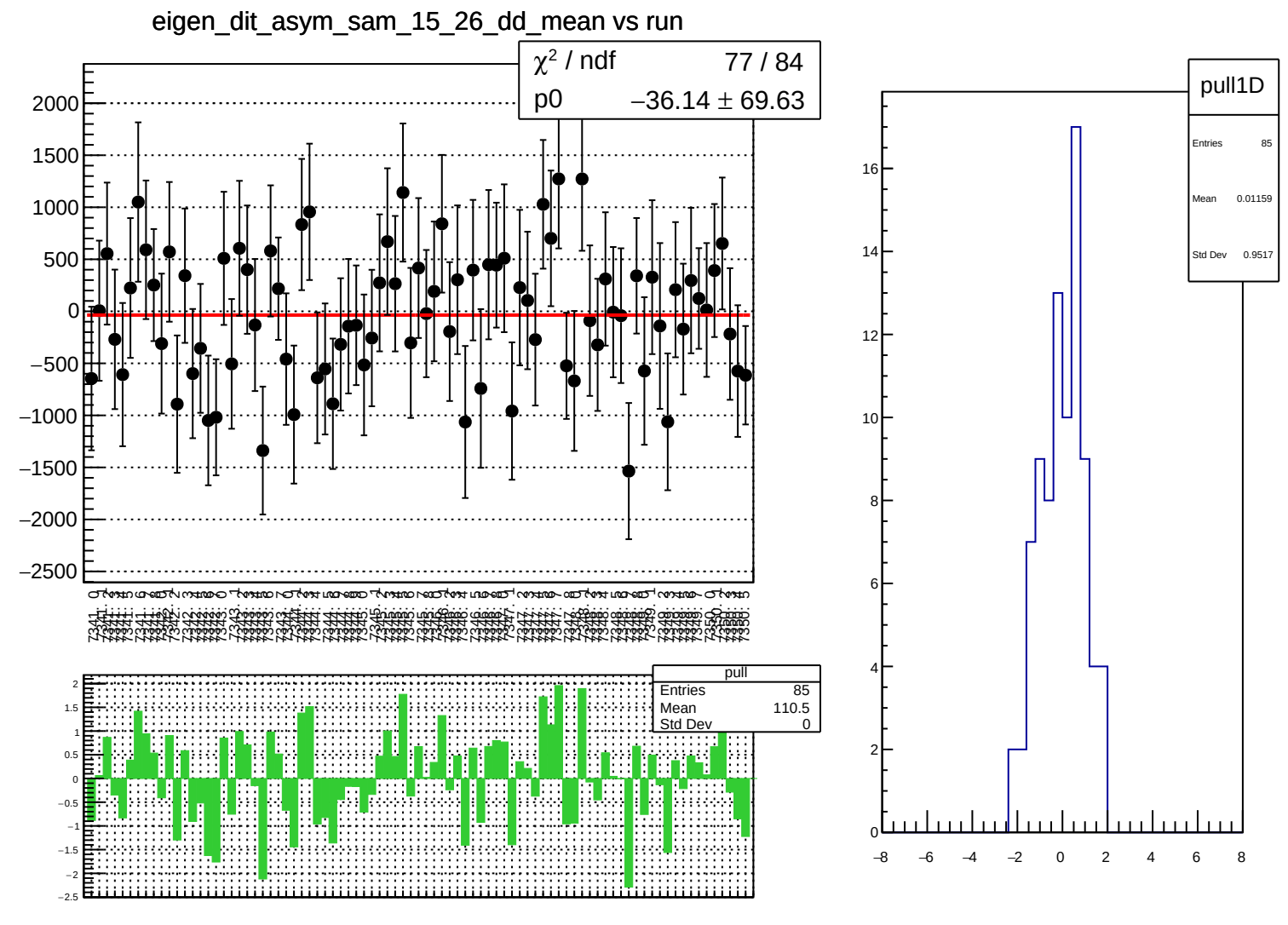

pull1D
Entries 85
Mean 0.01159
Std Dev 0.9517

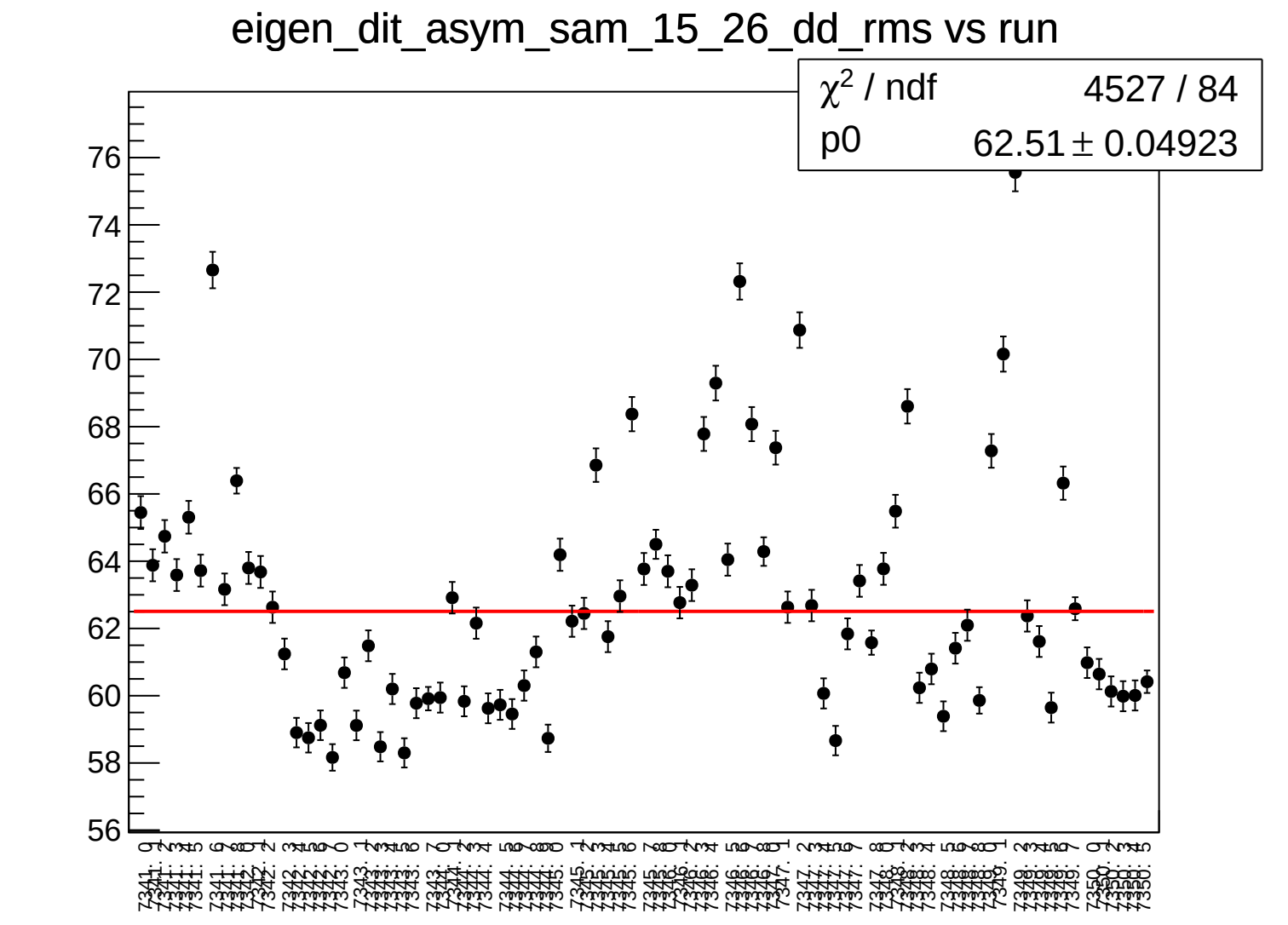

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4528 / 84
p0 62.51 ± 0.04923
76
74
72
70
68
66
64
62
60
58
56

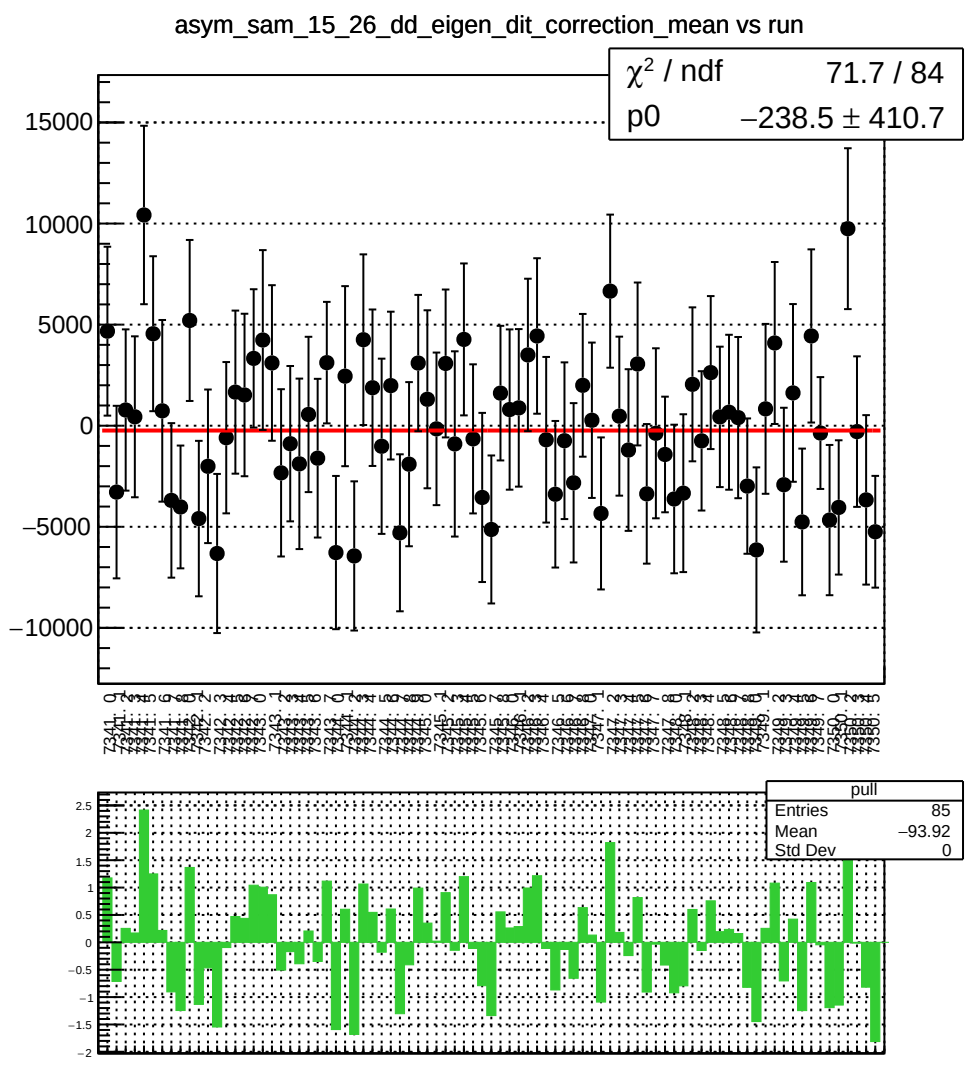

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 71.7 / 84
p0 −238.5 ± 410.7
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −93.92
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

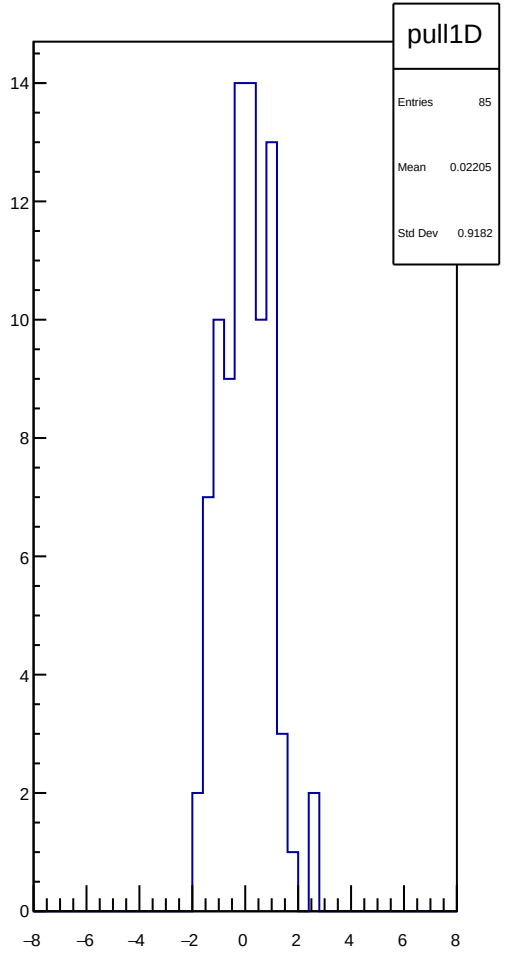

pull1D
Entries 85
Mean 0.02205
Std Dev 0.9182
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

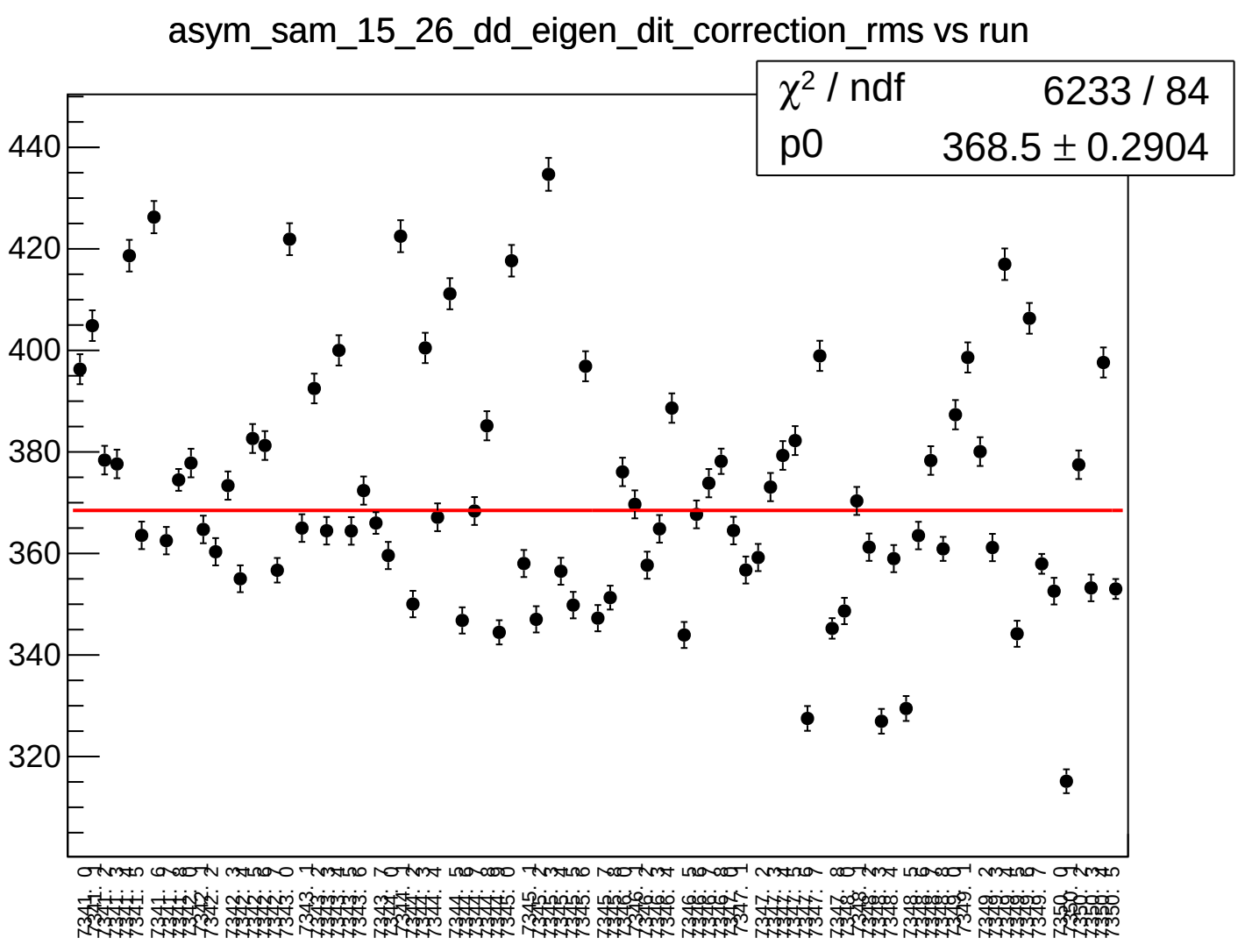

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 6233 / 84
p0 368.5 ± 0.2904
440
420
400
380
360
340
320

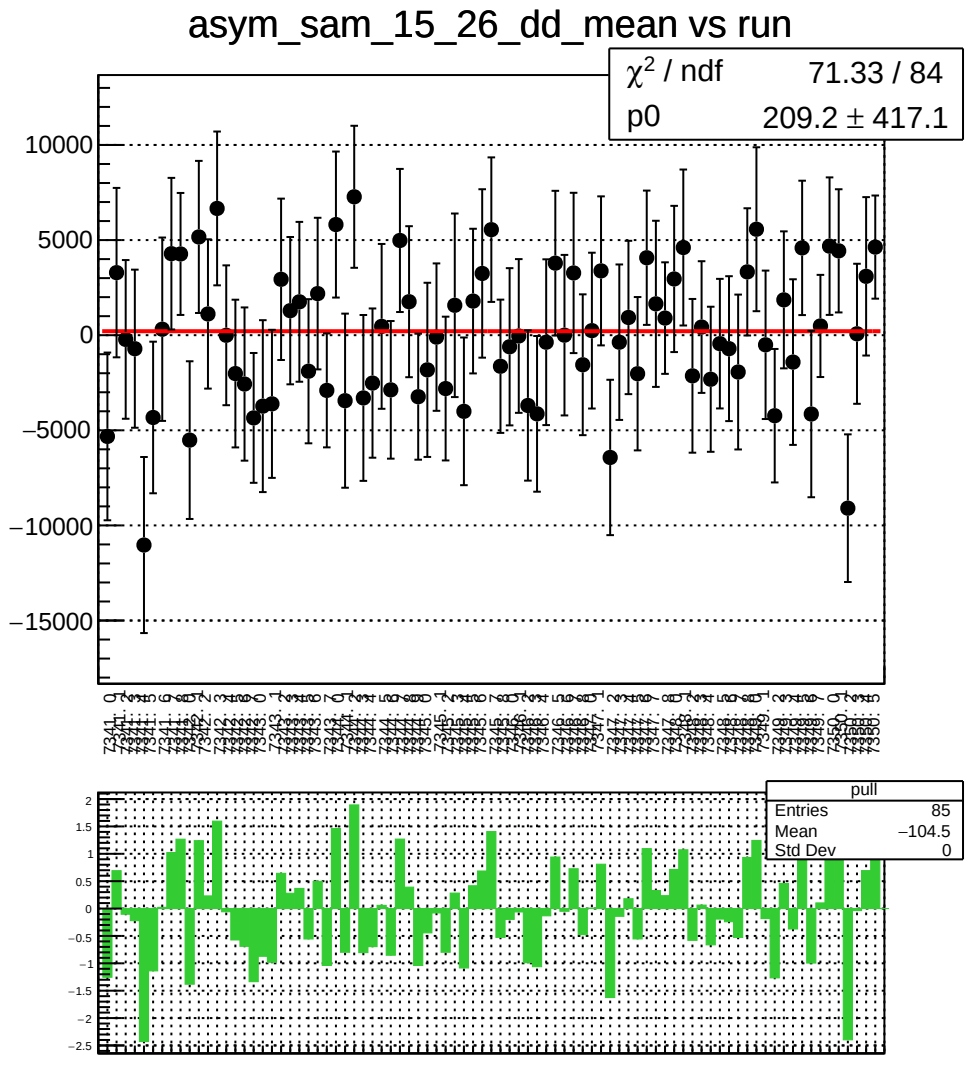

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 77 / 84
p0 −36.14 ± 69.63
pull
Entries 85
Mean 110.5
Std Dev 0
pull1D
Entries 85
Mean 0.01159
Std Dev 0.9517

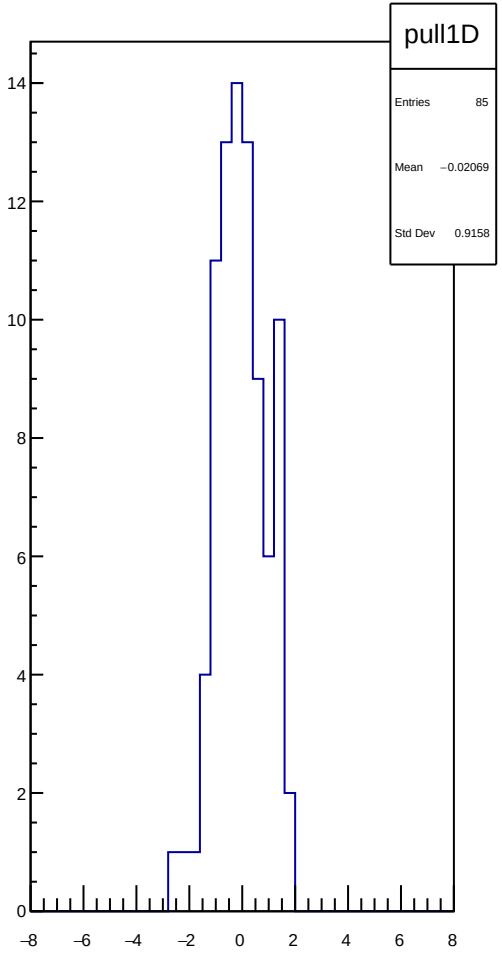

eigen_dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4527 / 84
p0 62.51 ± 0.04923
76
74
72
70
68
66
64
62
60
58
56

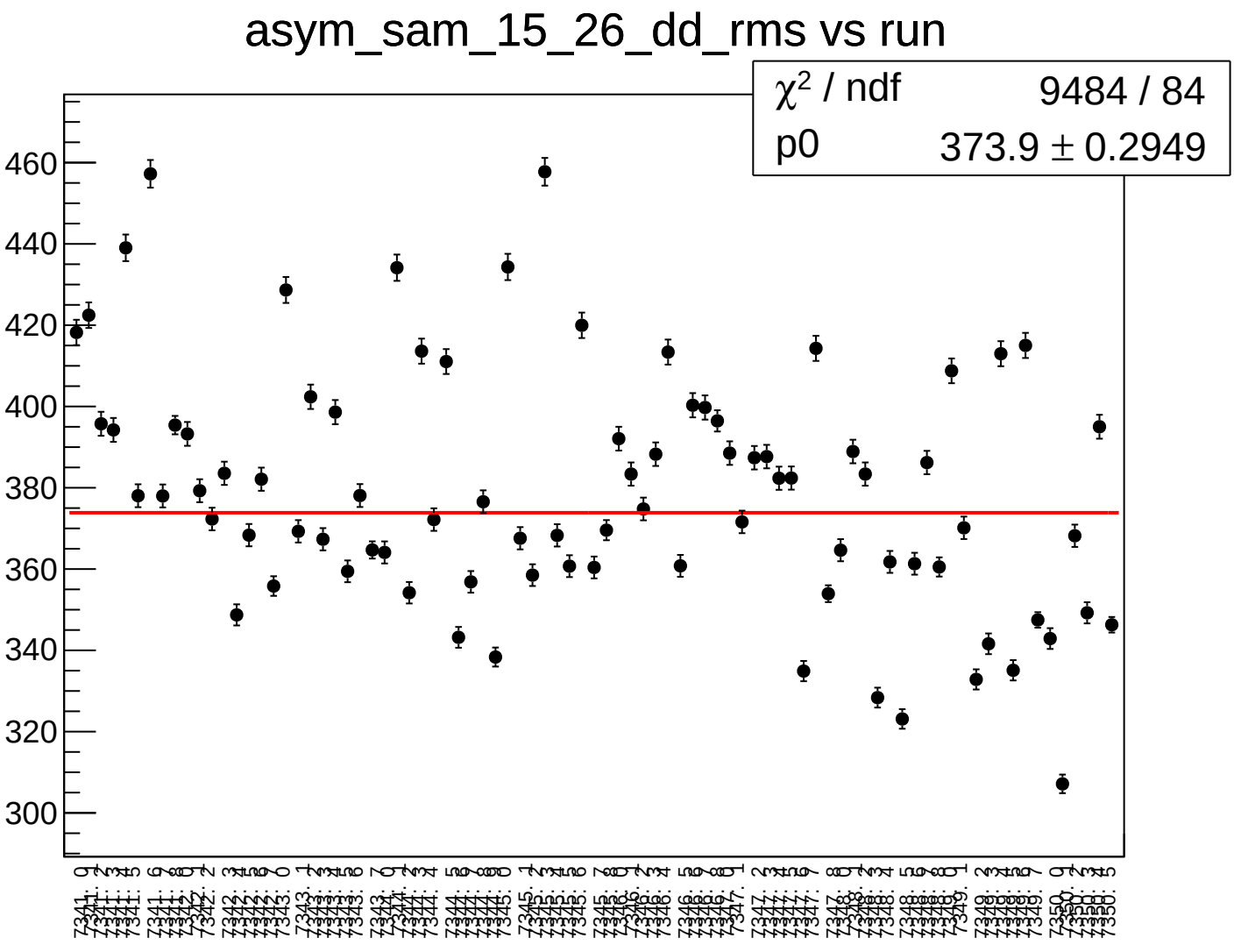

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.7 / 84
p0 −238.5 ± 410.7
15000
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −93.92
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

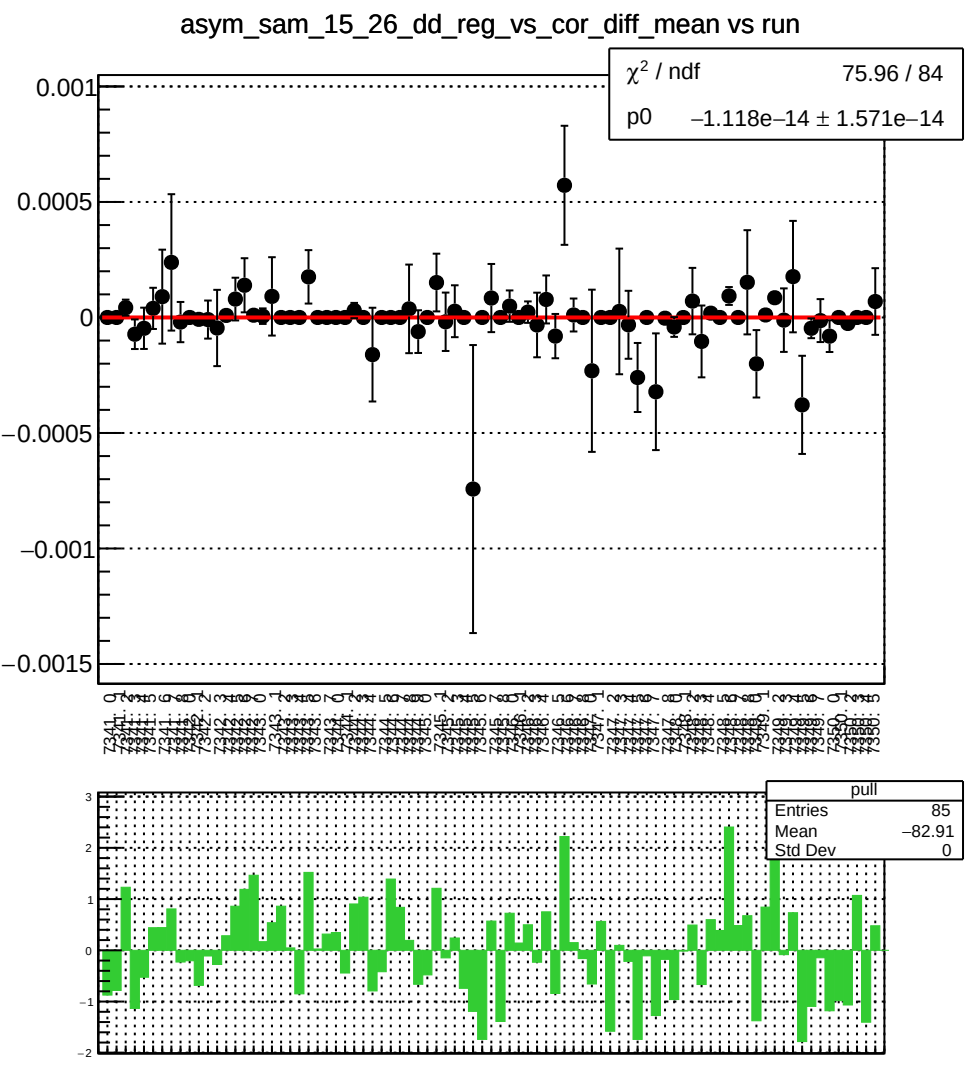

pull1D
Entries 85
Mean 0.02205
Std Dev 0.9182
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

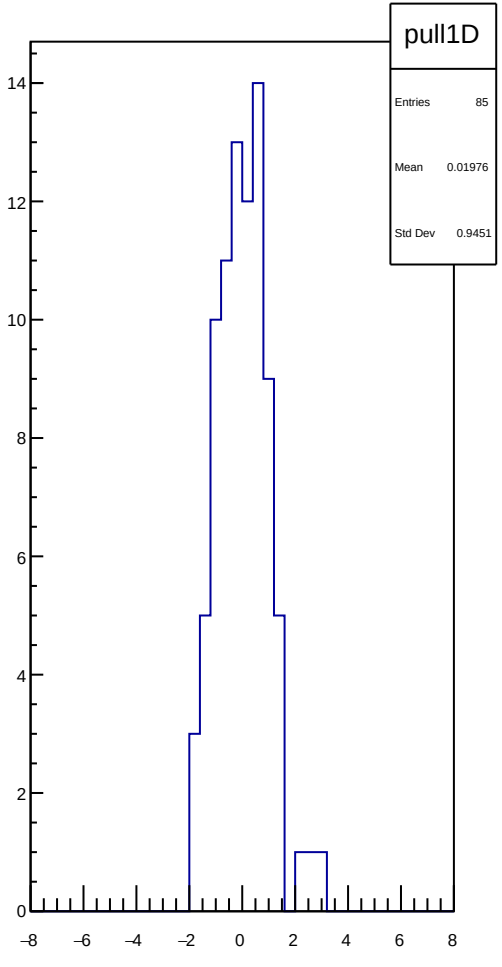

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6233 / 84
p0 368.5 ± 0.2904
440
420
400
380
360
340
320

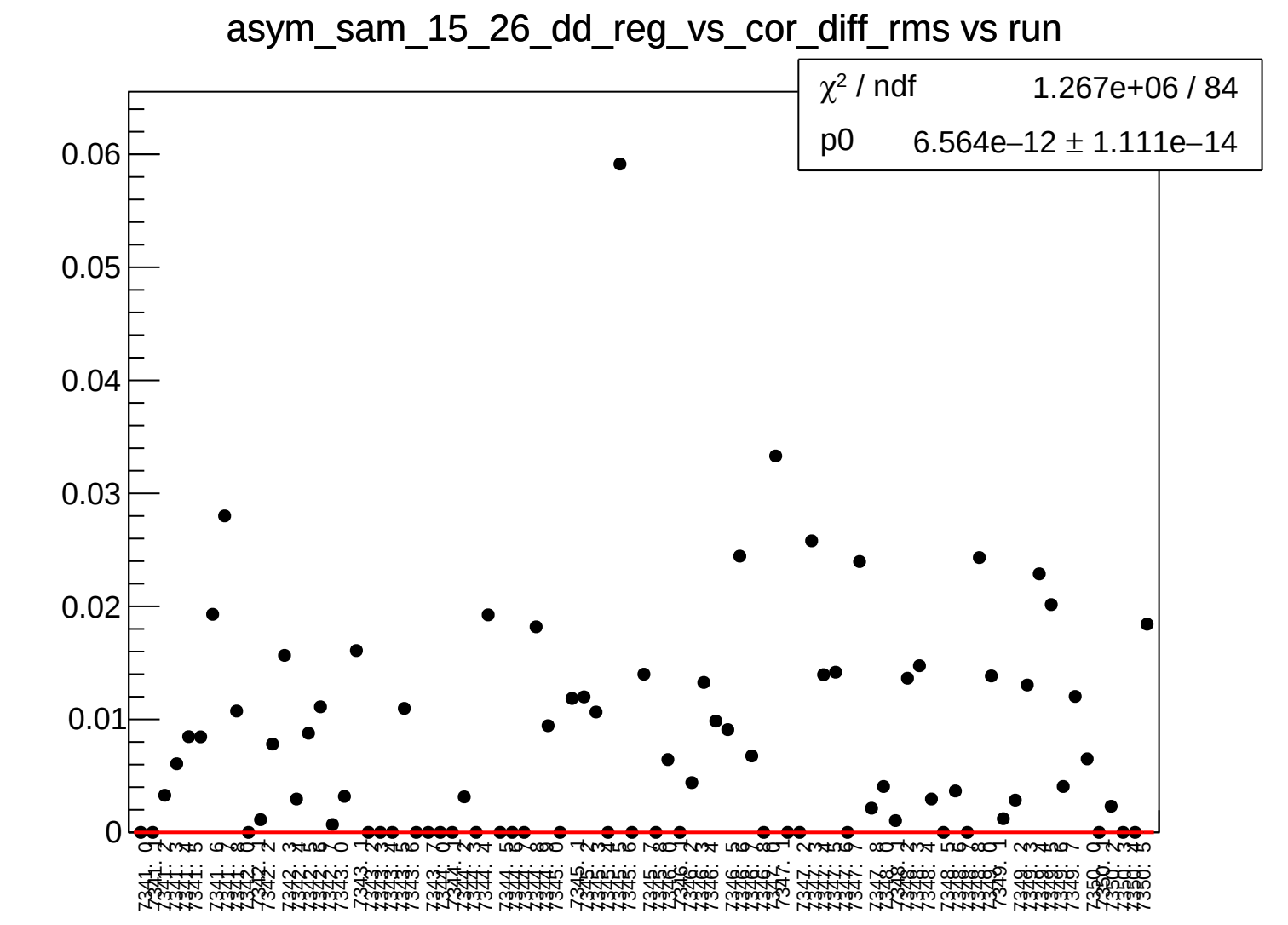

asym_sam_15_26_dd_mean vs run
χ² / ndf 71.33 / 84
p0 209.2 ± 417.1
pull
Entries 85
Mean −104.5
Std Dev 0

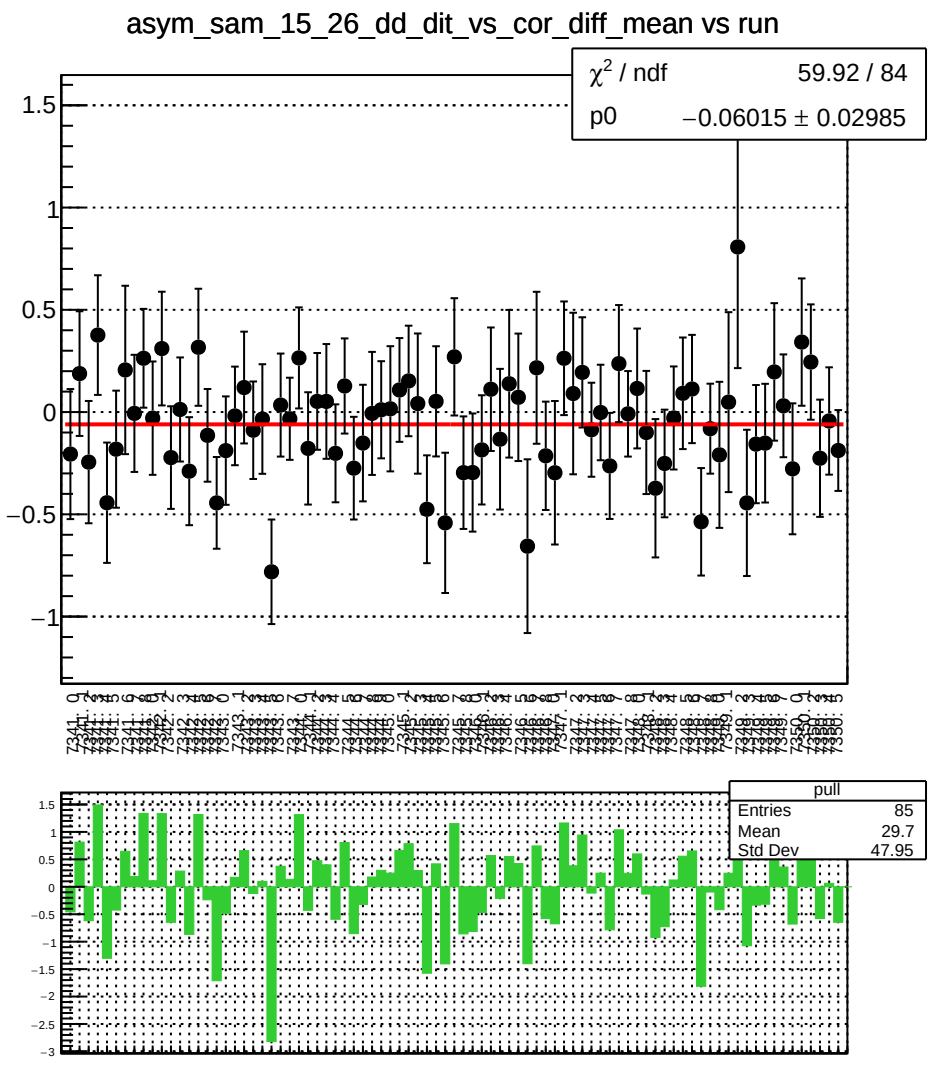

pull1D
Entries 85
Mean −0.02069
Std Dev 0.9158

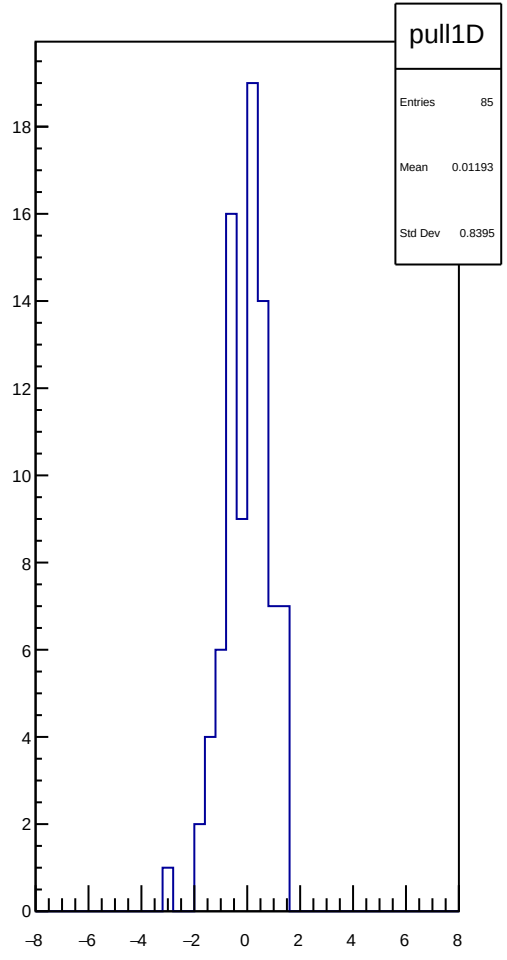

asym_sam_15_26_dd_rms vs run
χ² / ndf 9484 / 84
p0 373.9 ± 0.2949
460
440
420
400
380
360
340
320
300

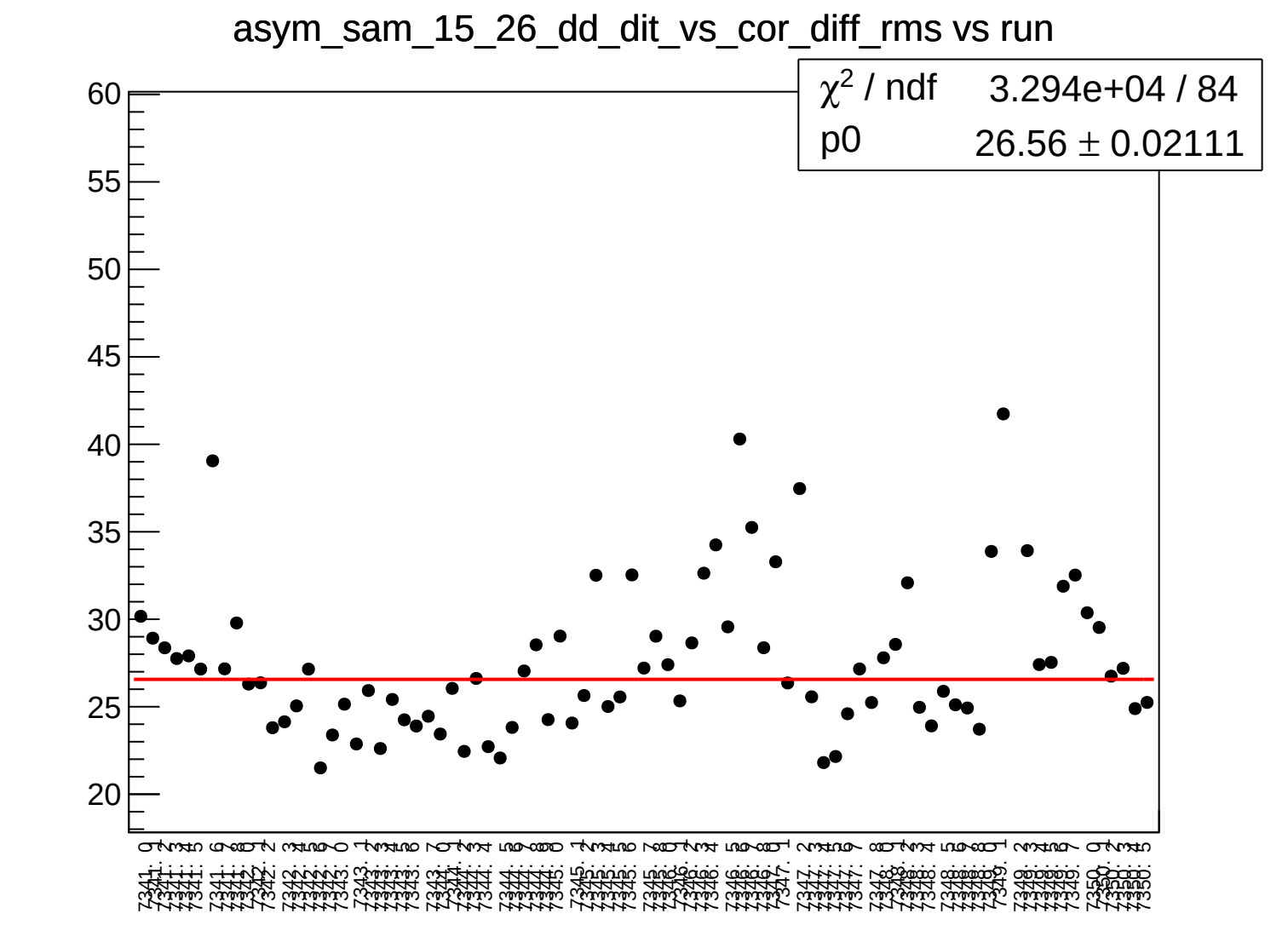

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.96 / 84
p0 −1.118e−14 ± 1.571e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean −82.91
Std Dev 0
3
2
1
0
−1
−2

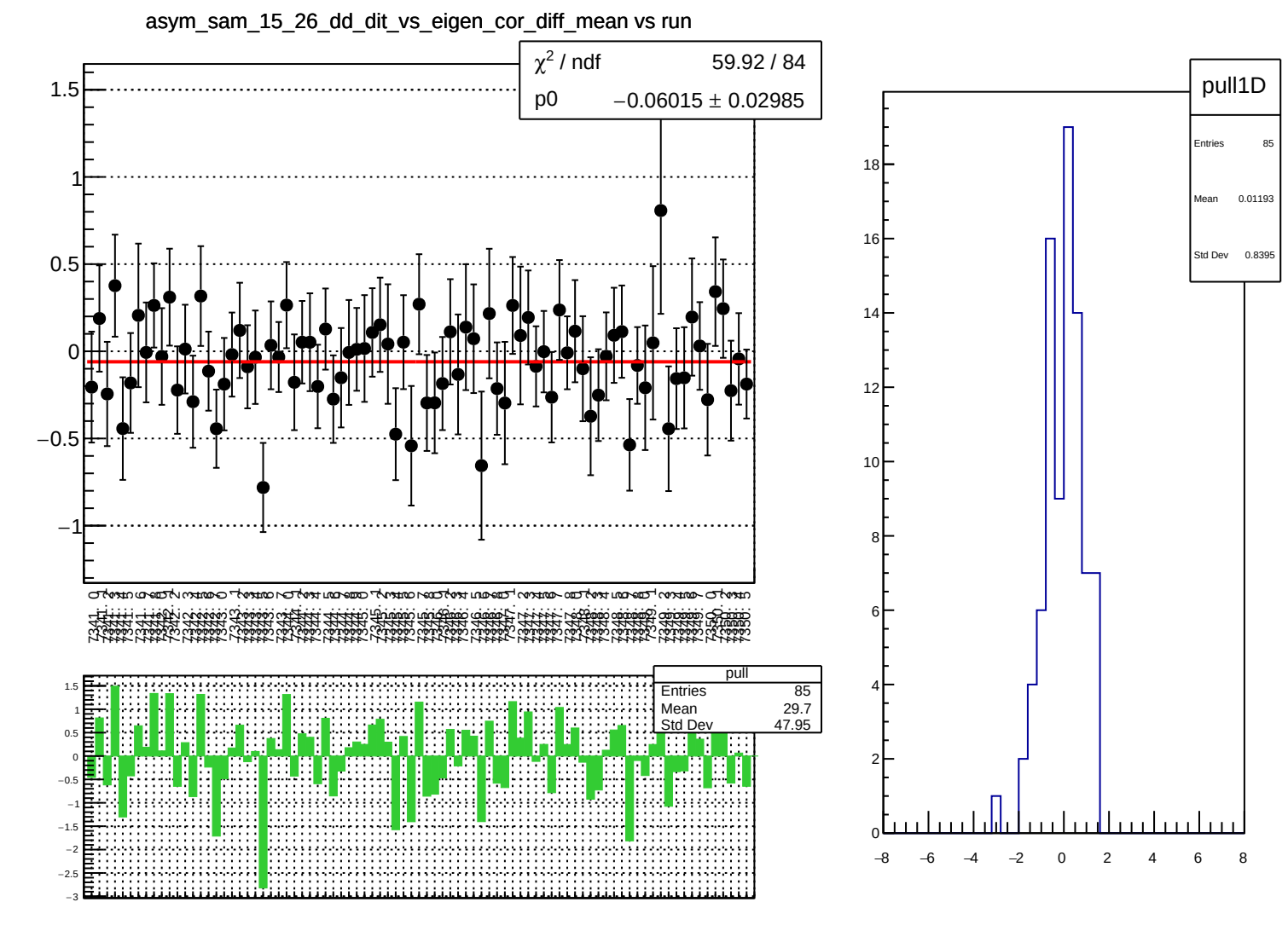

pull1D
Entries 85
Mean 0.01976
Std Dev 0.9451
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

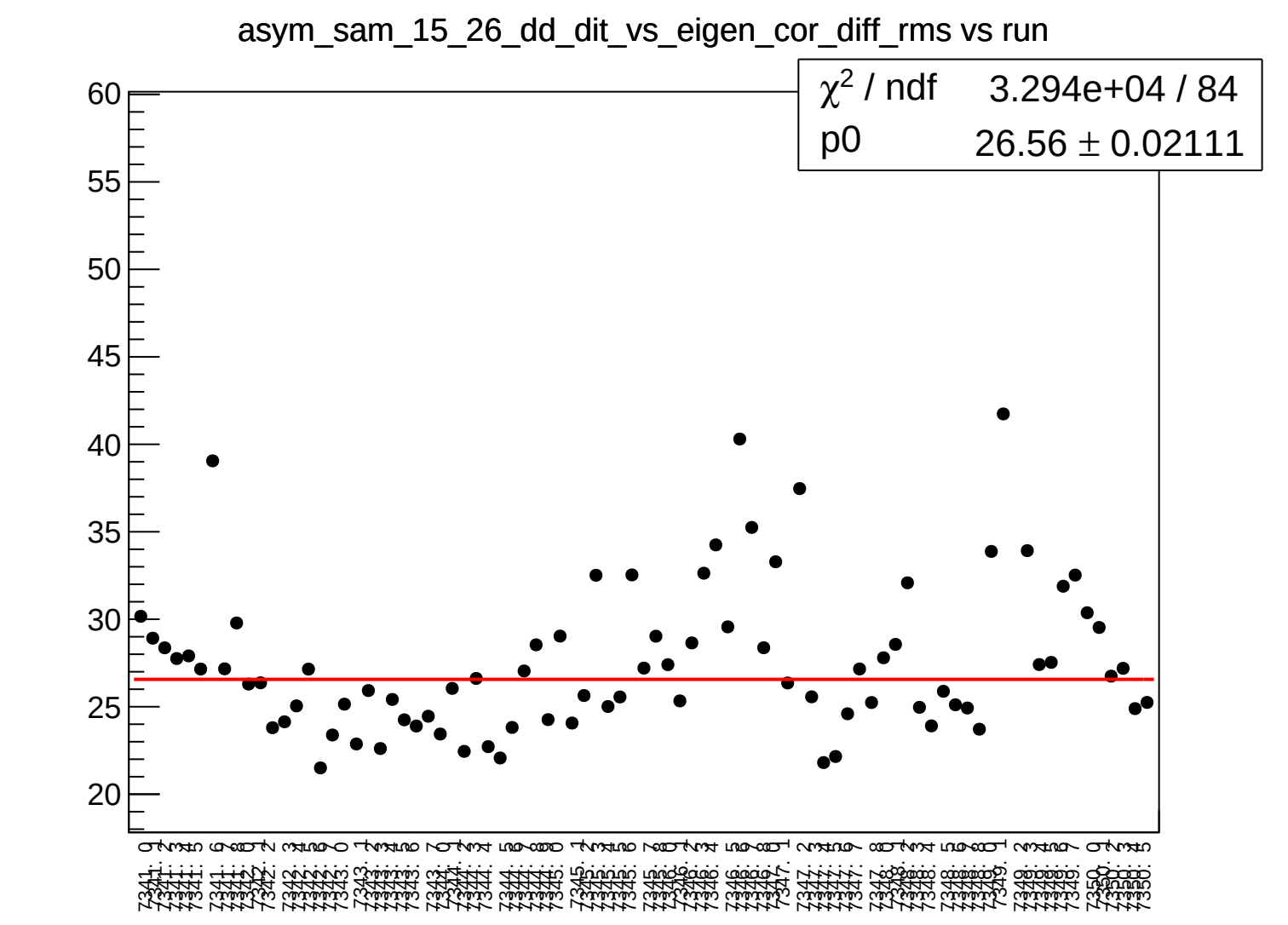

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.267e+06 / 84
p0 6.564e−12 ± 1.111e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

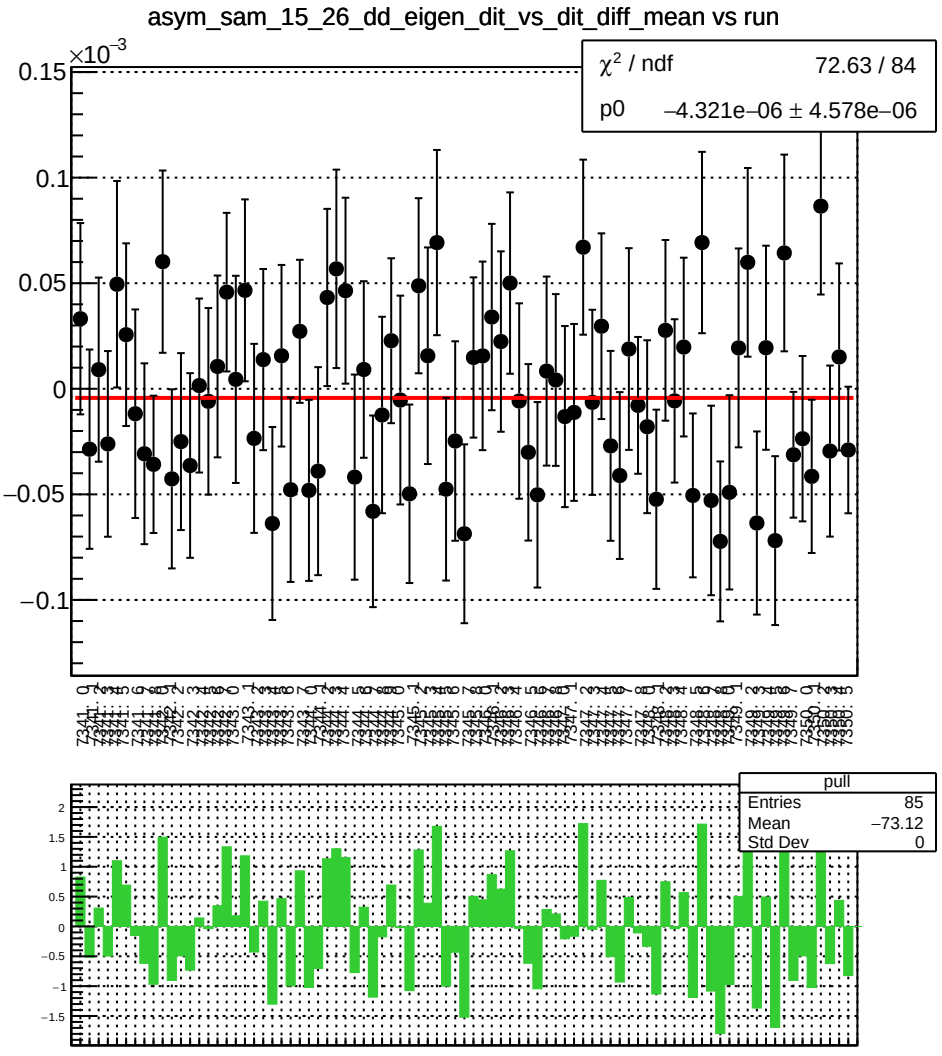

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 59.92 / 84
p0 −0.06015 ± 0.02985
pull
Entries 85
Mean 29.7
Std Dev 47.95

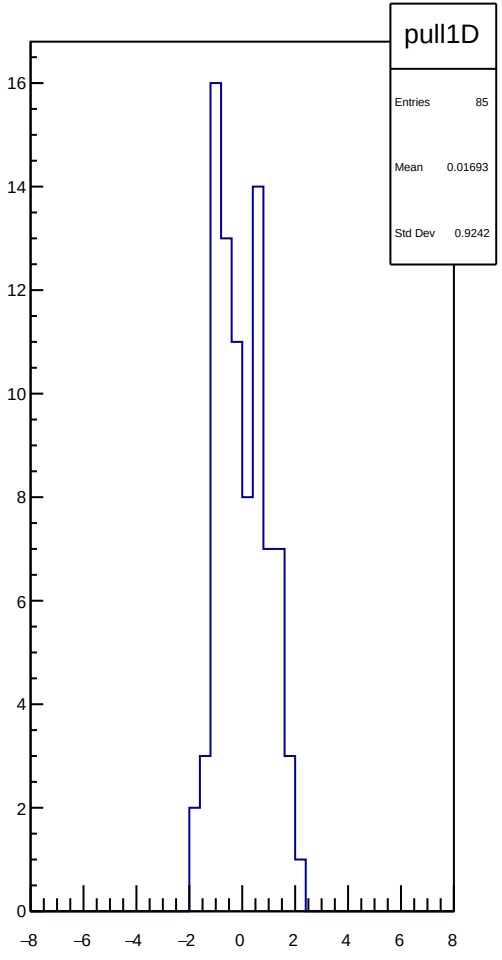

pull1D
Entries 85
Mean 0.01193
Std Dev 0.8395

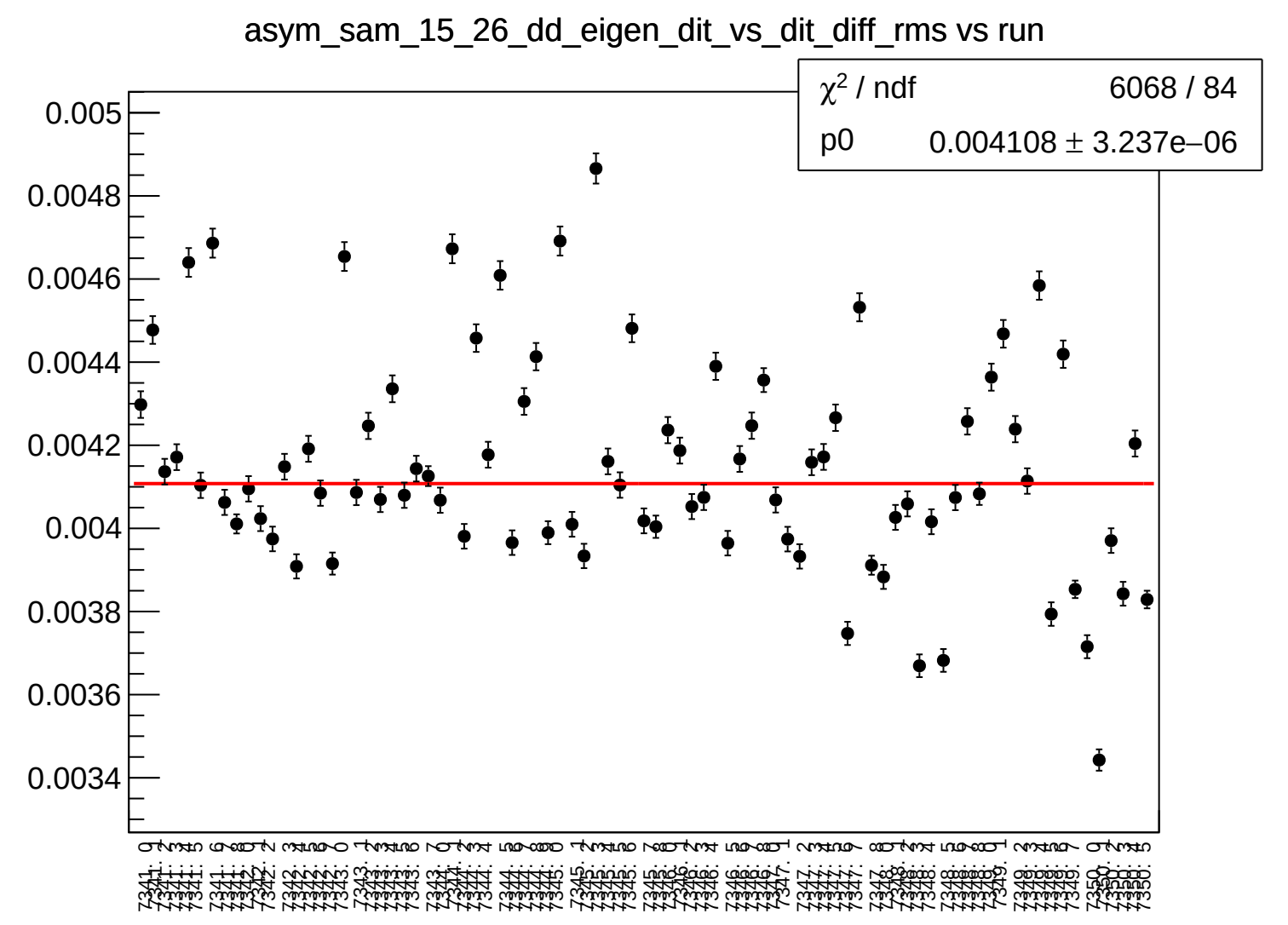

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.294e+04 / 84
p0 26.56 ± 0.02111
60
55
50
45
40
35
30
25
20

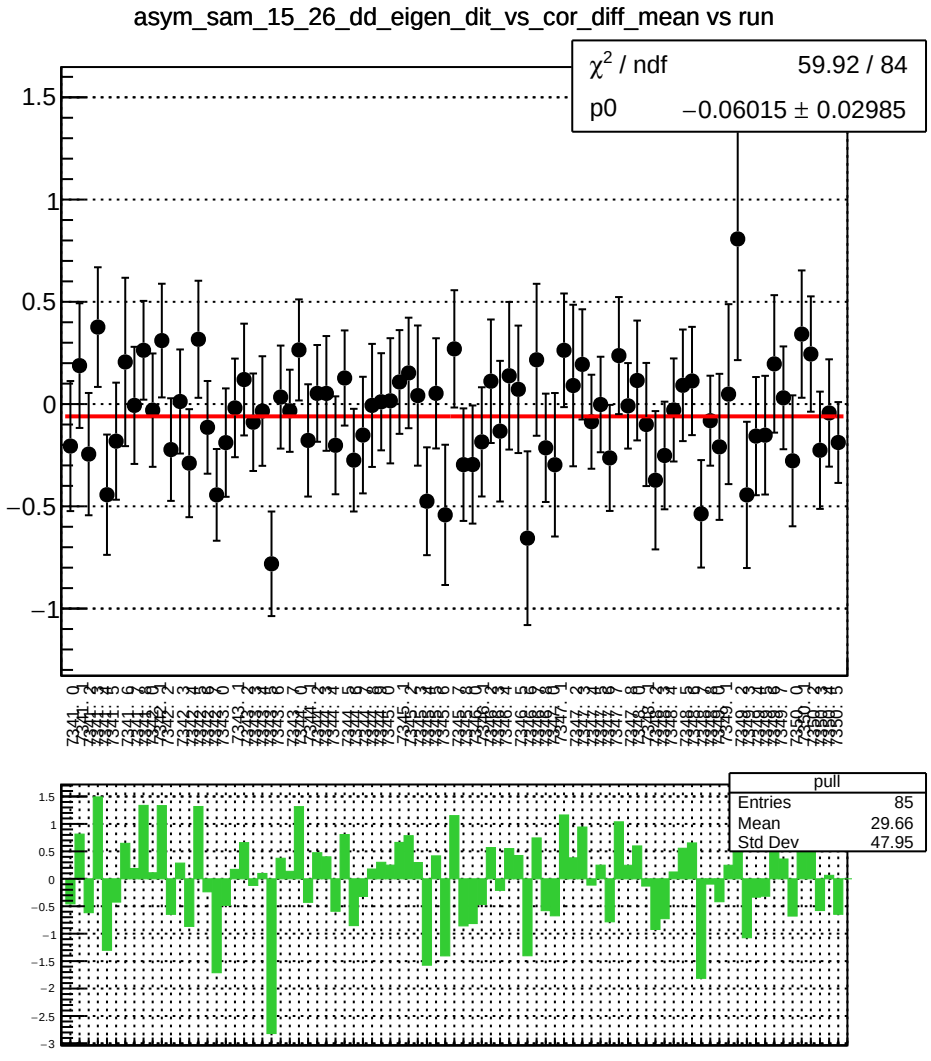

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.92 / 84
p0 −0.06015 ± 0.02985
pull
Entries 85
Mean 29.7
Std Dev 47.95
pull1D
Entries 85
Mean 0.01193
Std Dev 0.8395

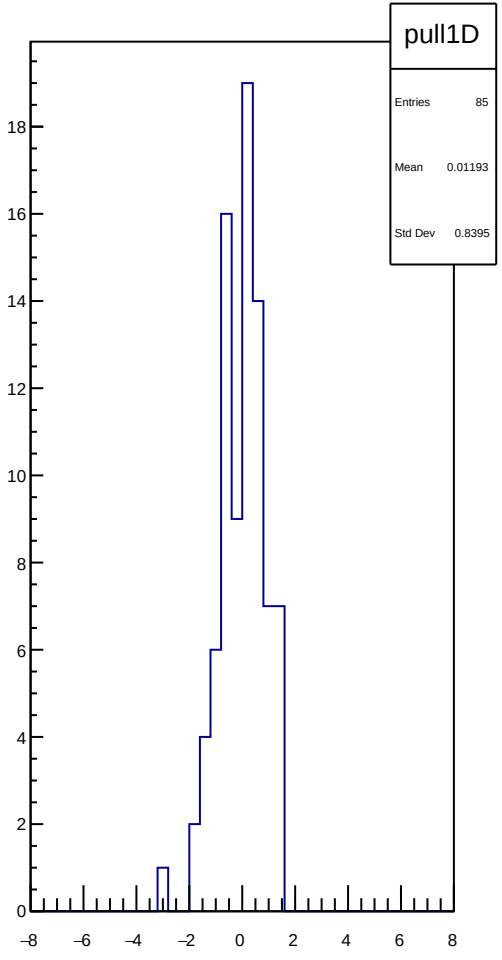

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.294e+04 / 84
p0 26.56 ± 0.02111
60
55
50
45
40
35
30
25
20

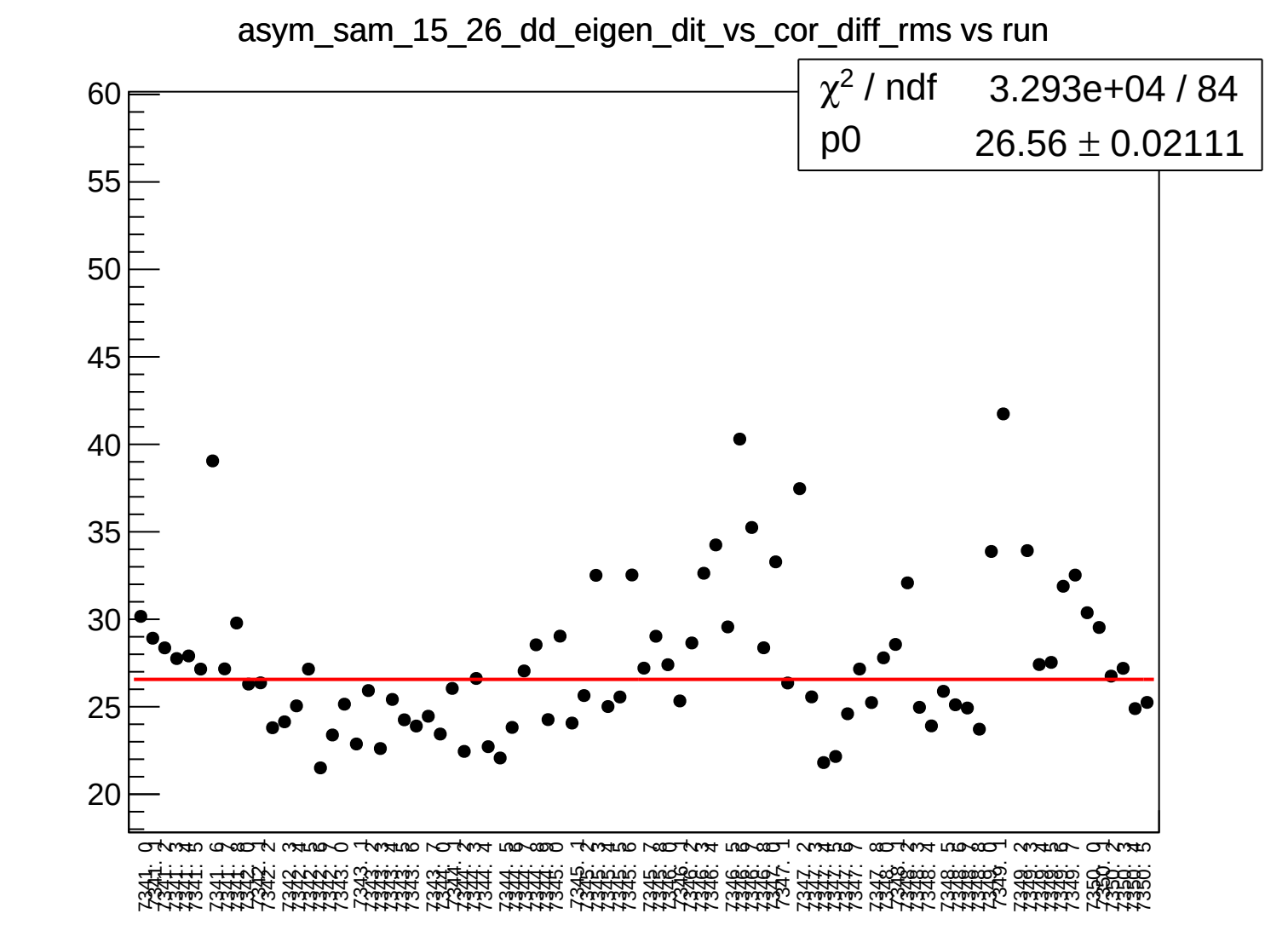

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.63 / 84
p0 −4.321e−06 ± 4.578e−06
pull
Entries 85
Mean −73.12
Std Dev 0

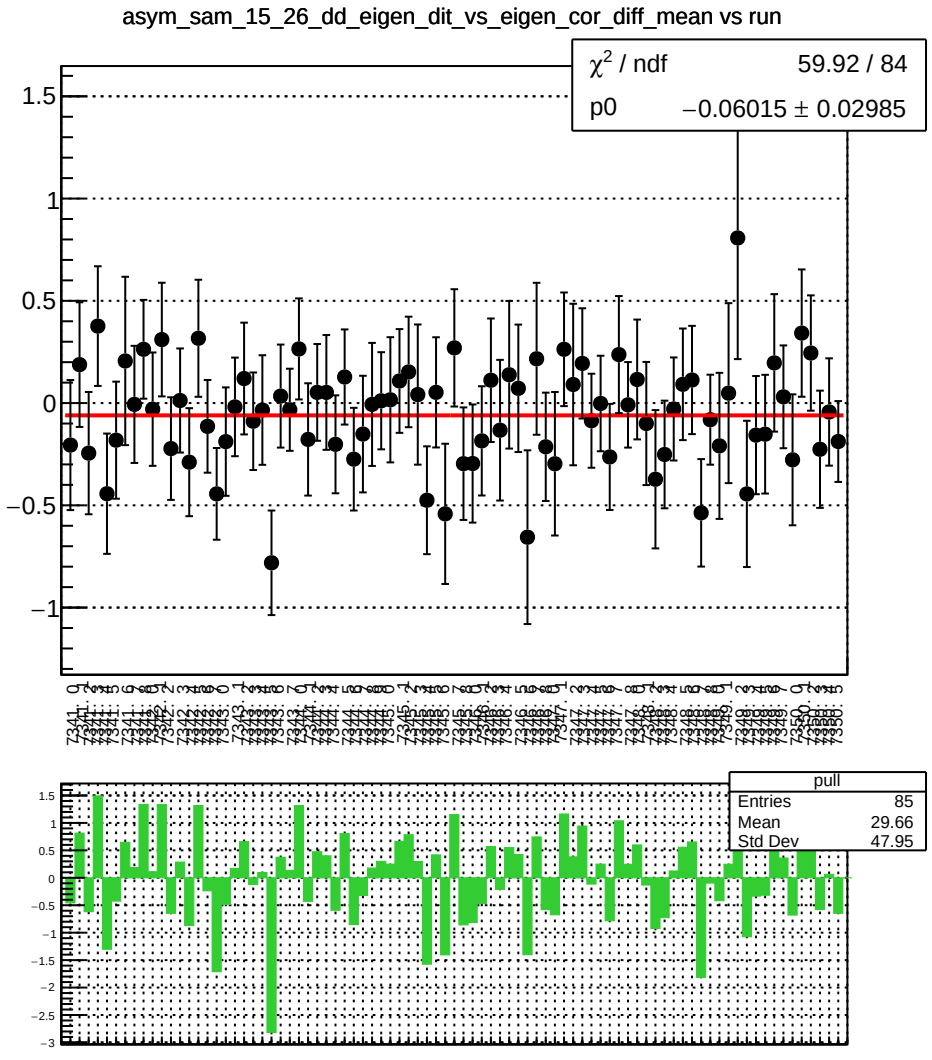

pull1D
Entries 85
Mean 0.01693
Std Dev 0.9242

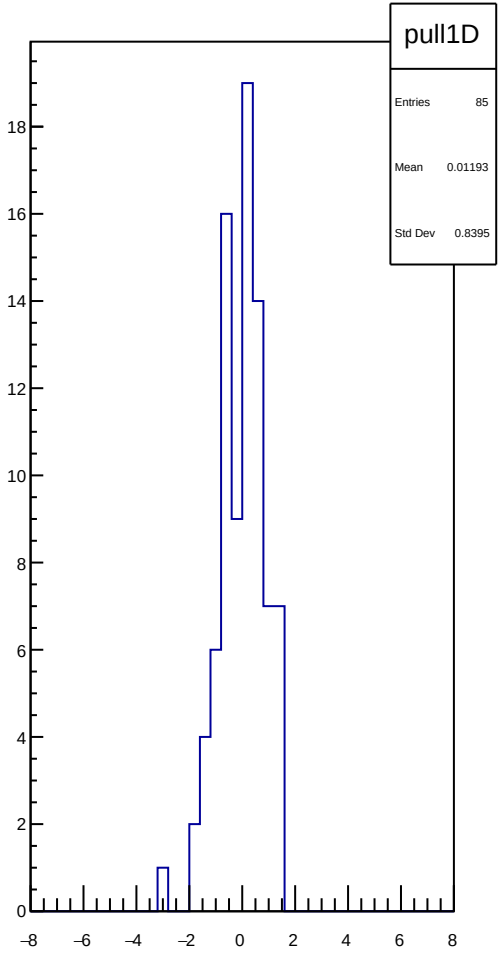

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6068 / 84
p0 0.004108 ± 3.237e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

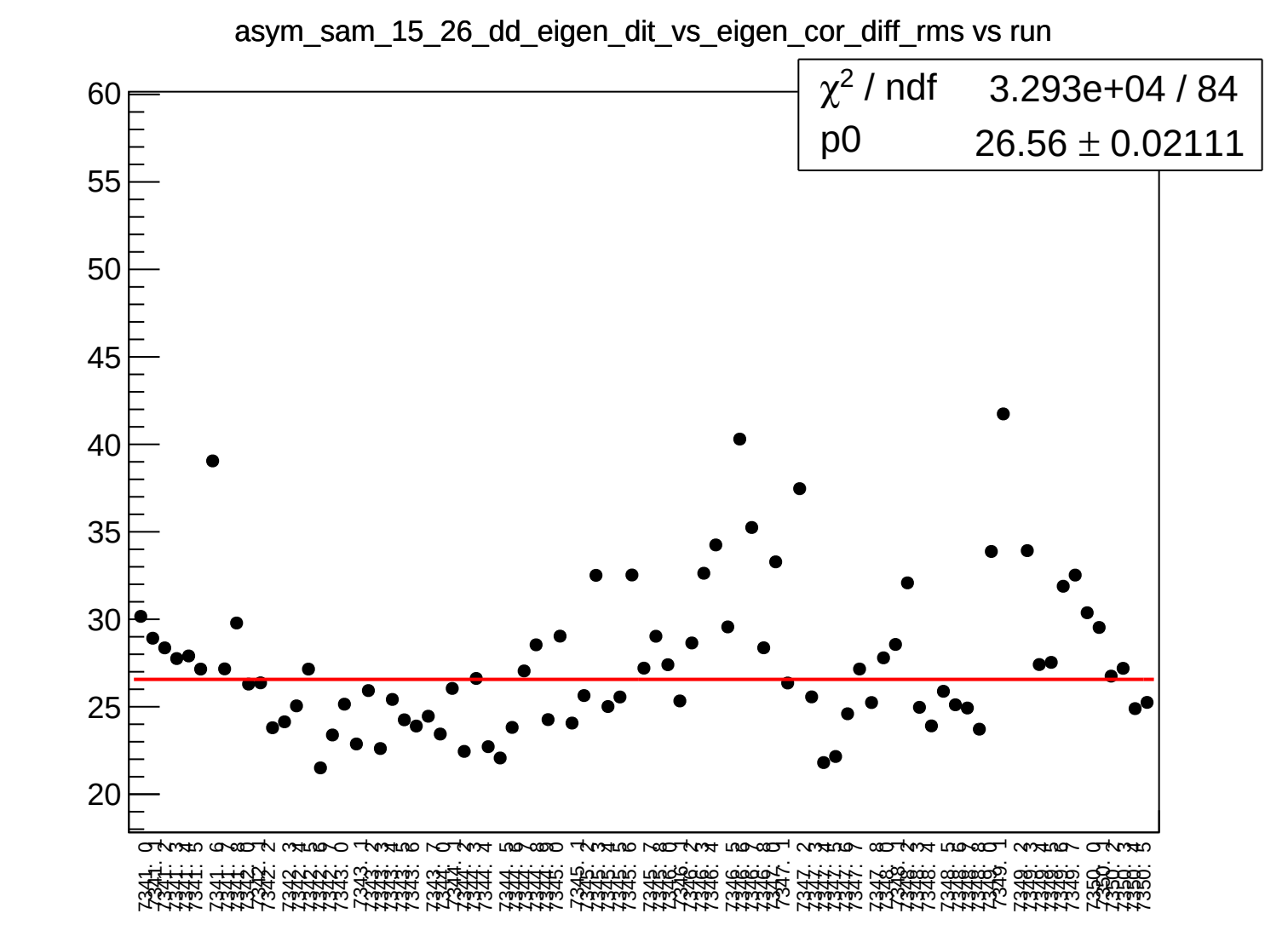

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 59.92 / 84
p0 −0.06015 ± 0.02985
pull
Entries 85
Mean 29.66
Std Dev 47.95

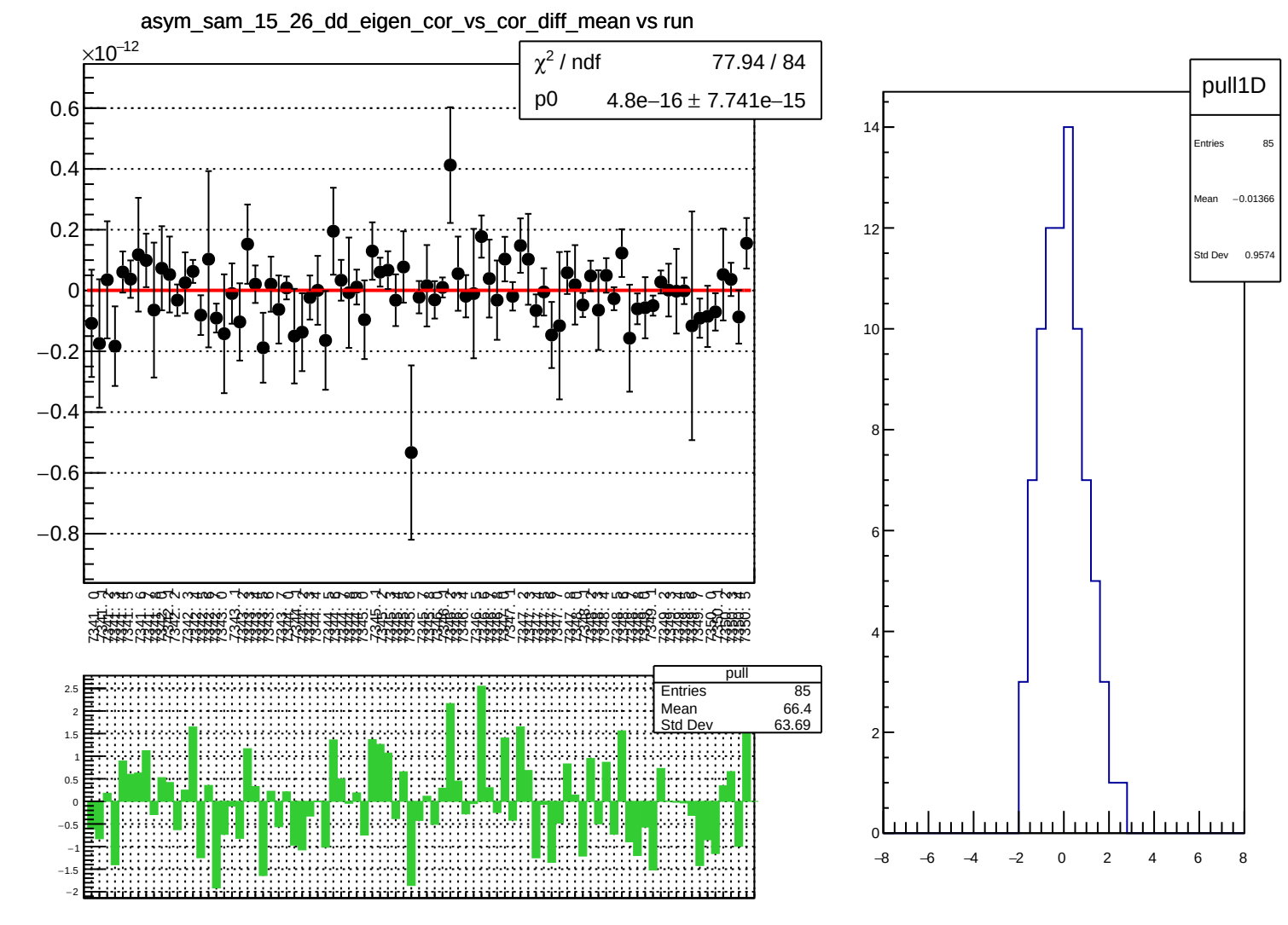

pull1D
Entries 85
Mean 0.01193
Std Dev 0.8395

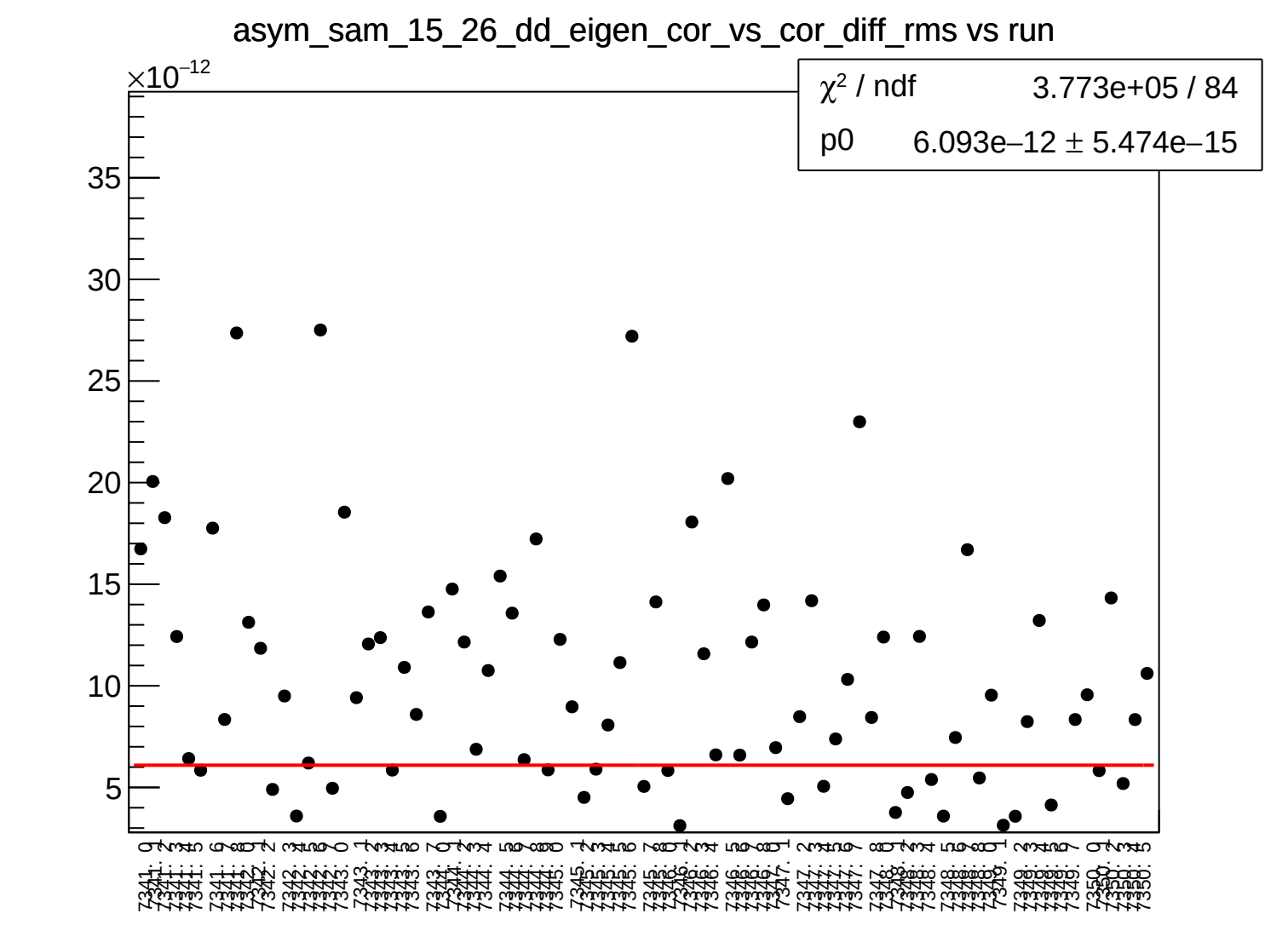

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.293e+04 / 84
p0 26.56 ± 0.02111
60
55
50
45
40
35
30
25
20

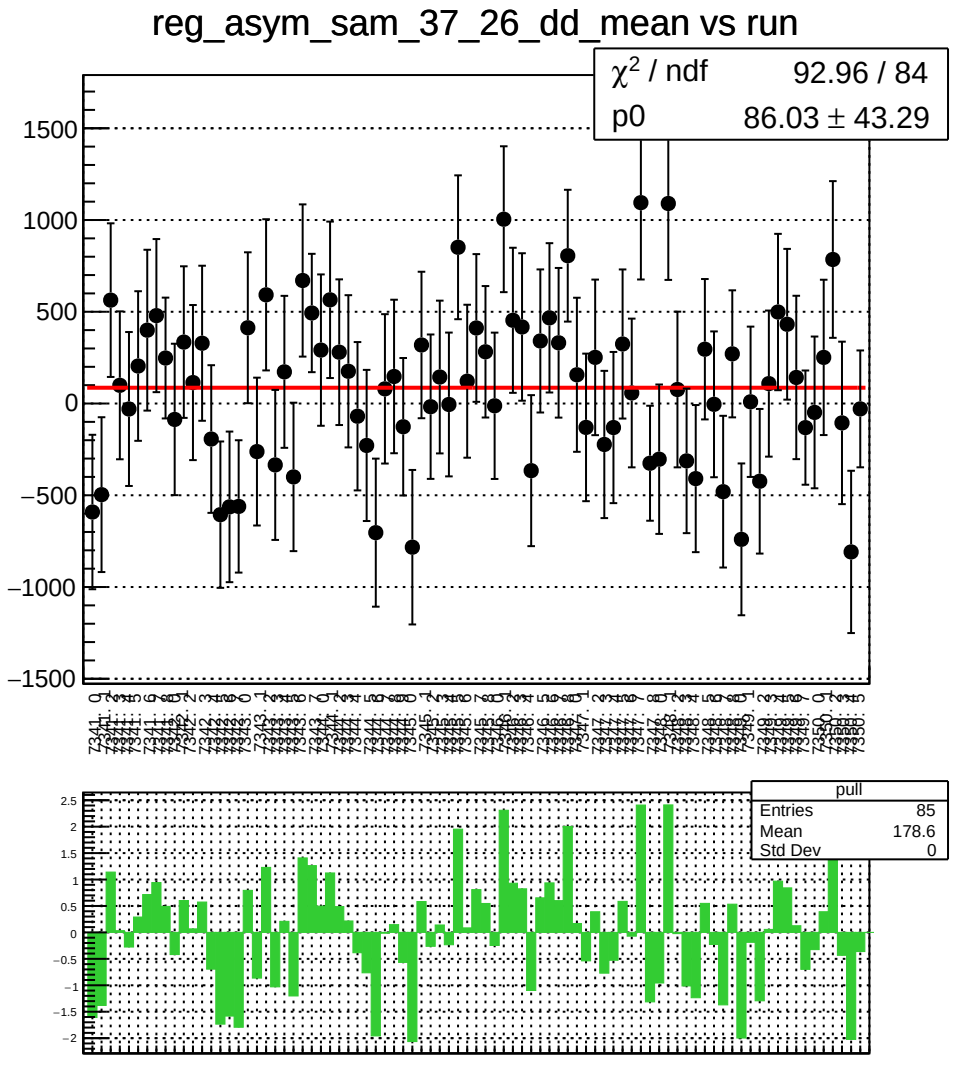

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.92 / 84
p0 −0.06015 ± 0.02985
pull
Entries 85
Mean 29.66
Std Dev 47.95

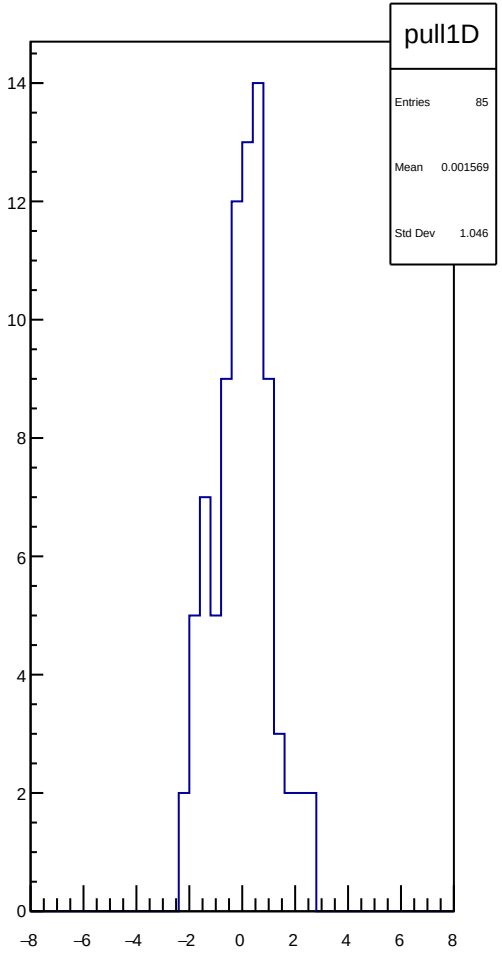

pull1D
Entries 85
Mean 0.01193
Std Dev 0.8395

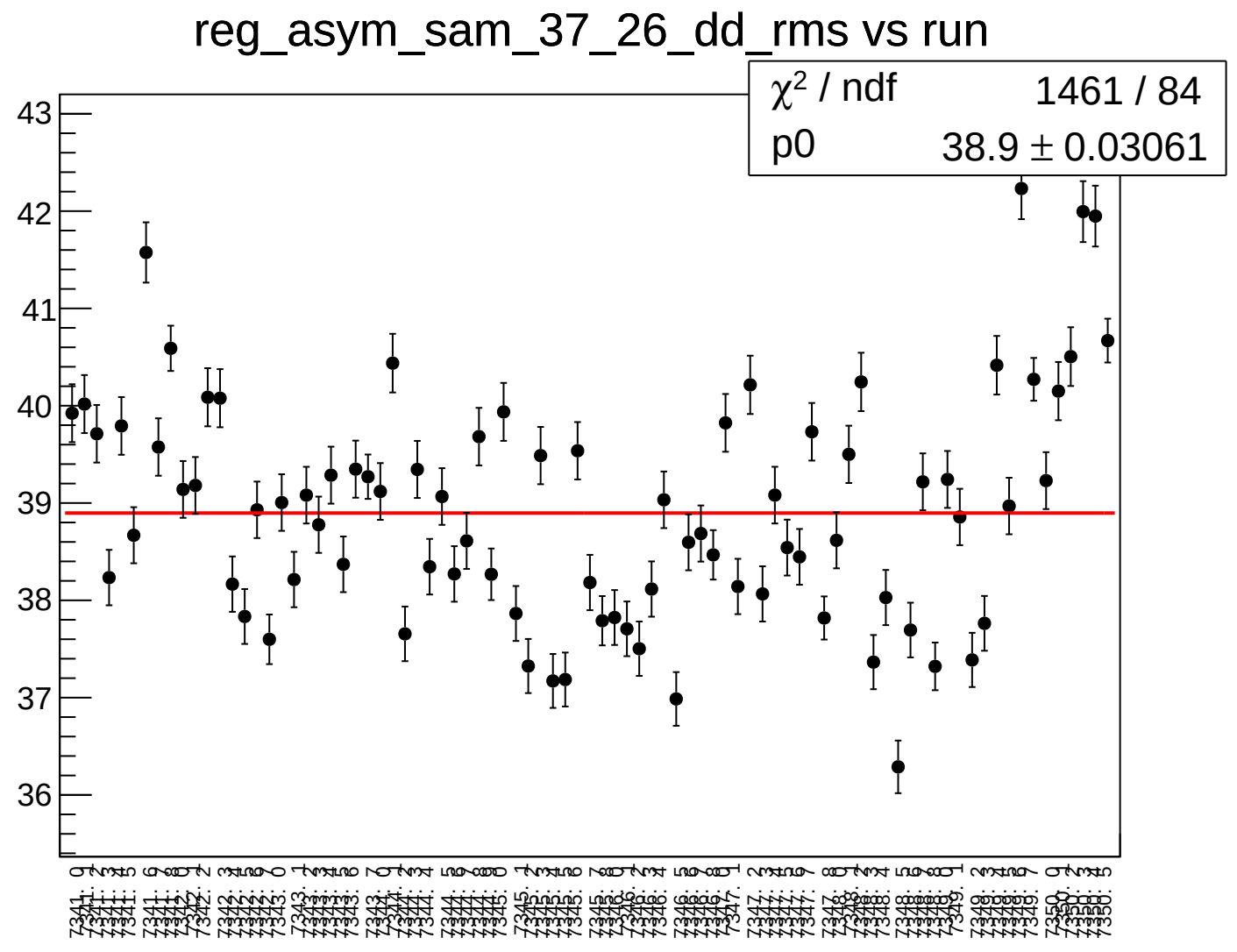

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.293e+04 / 84
p0 26.56 ± 0.02111
60
55
50
45
40
35
30
25
20

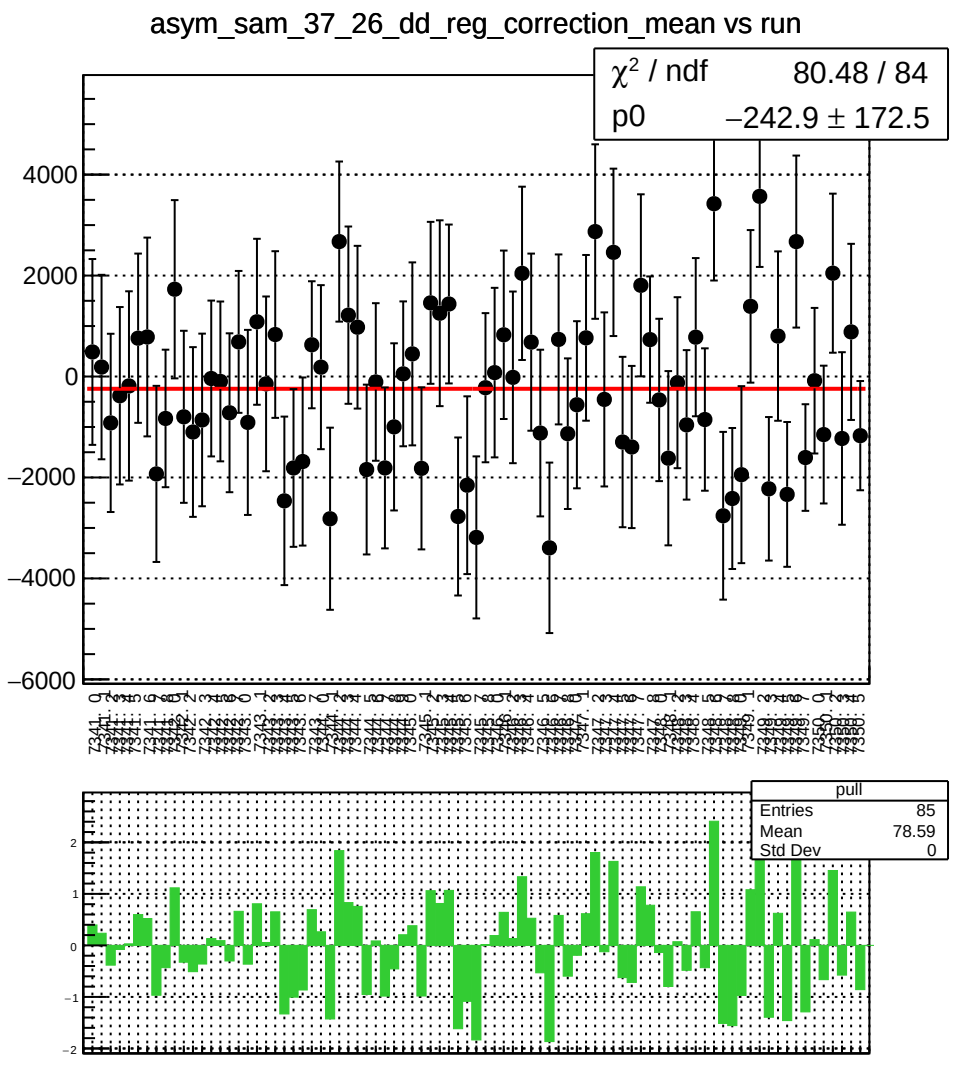

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.94 / 84
p0 4.8e−16 ± 7.741e−15
pull
Entries 85
Mean 66.4
Std Dev 63.69
pull1D
Entries 85
Mean −0.01366
Std Dev 0.9574

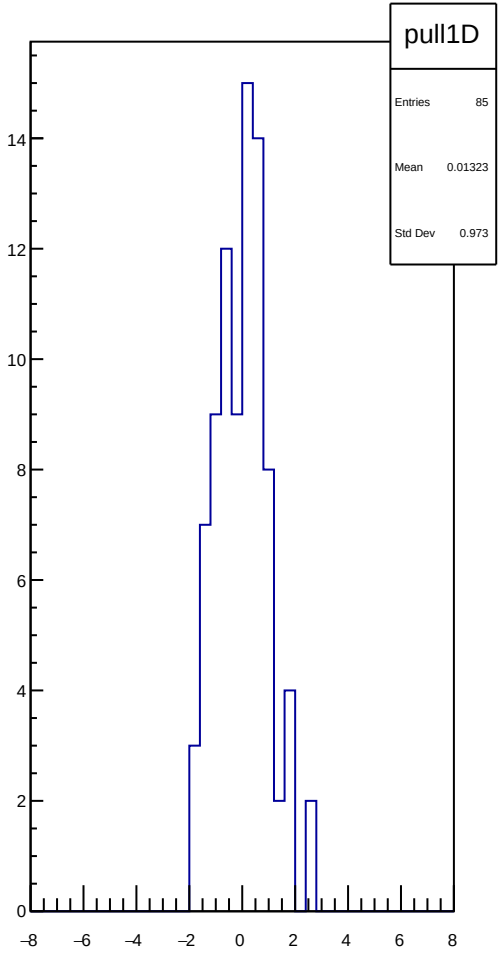

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.773e+05 / 84
p0 6.093e−12 ± 5.474e−15
35
30
25
20
15
10
5

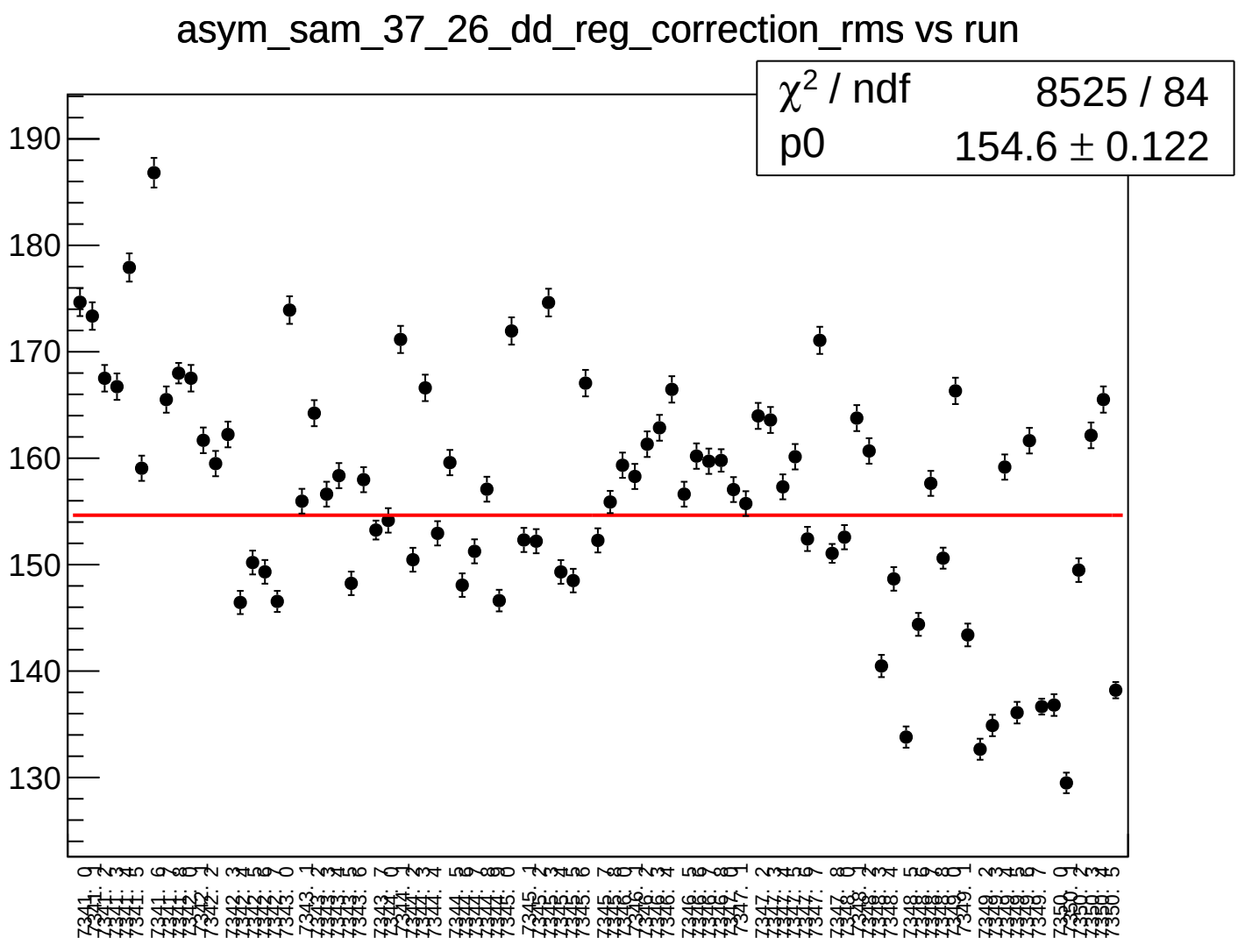

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.96 / 84
p0 86.03 ± 43.29
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 178.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

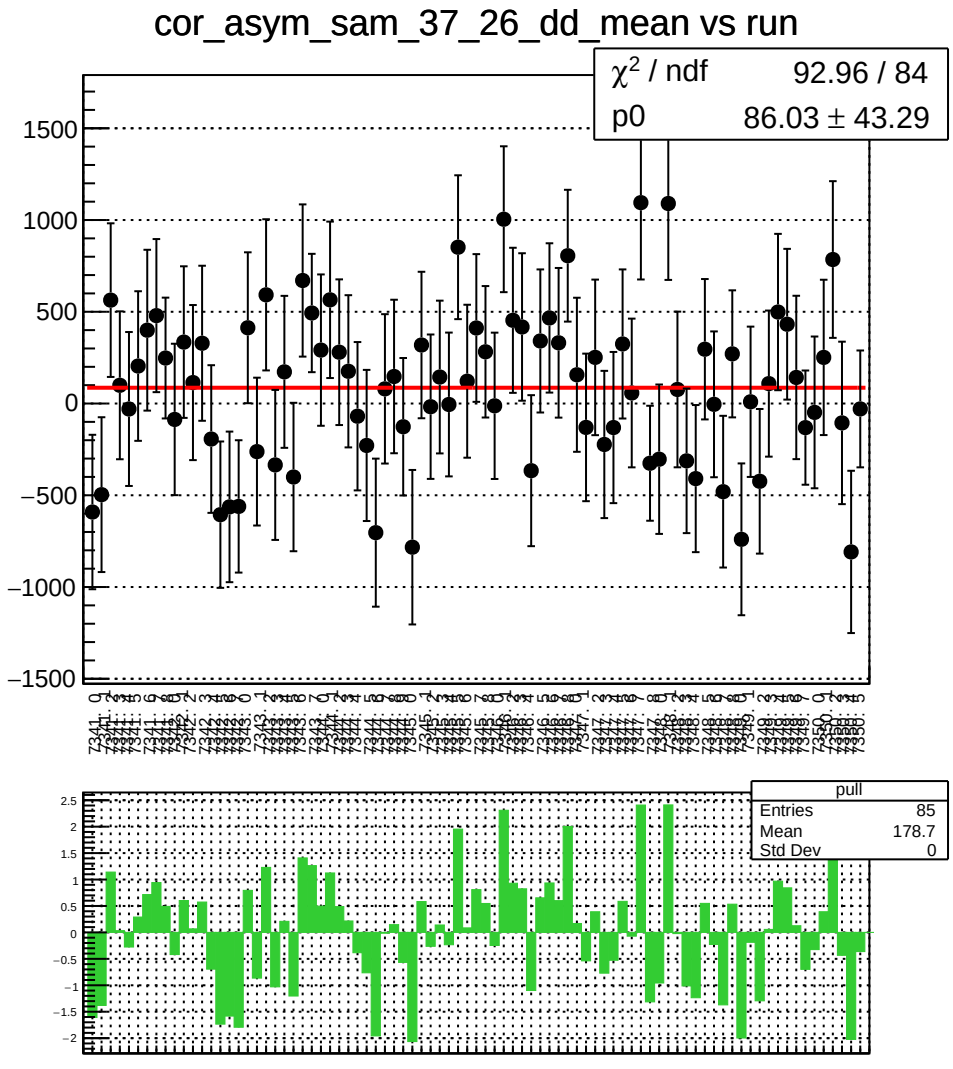

pull1D
Entries 85
Mean 0.001569
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

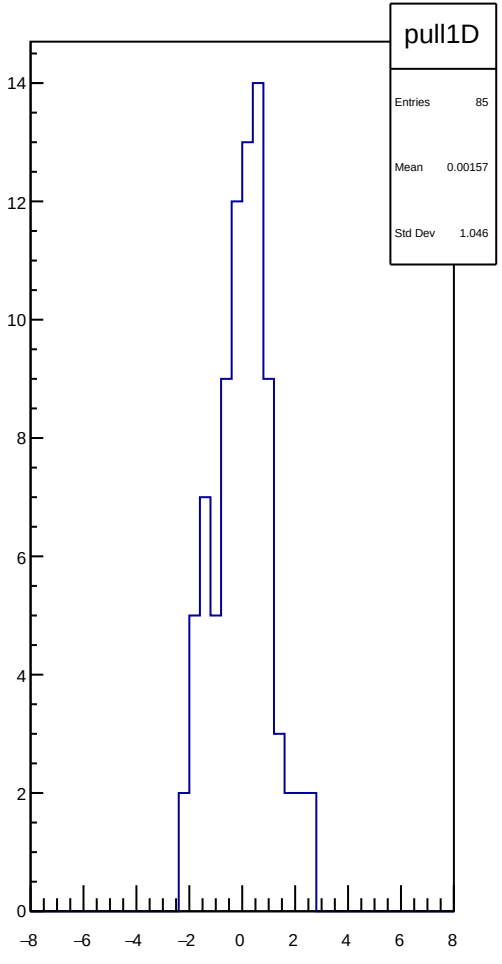

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1461 / 84
p0 38.9 ± 0.03061
43
42
41
40
39
38
37
36

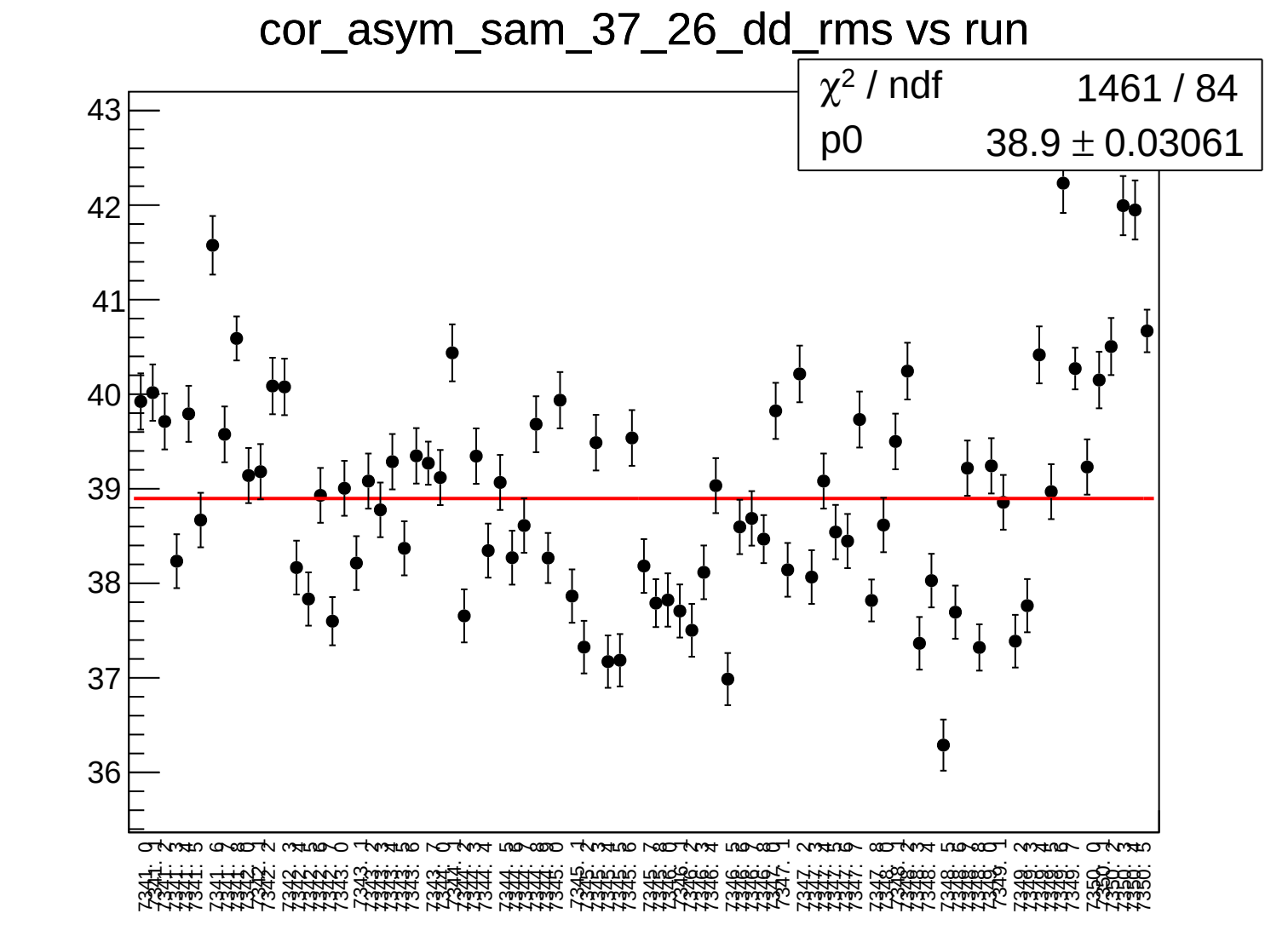

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 80.48 / 84
p0 −242.9 ± 172.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 78.59
Std Dev 0
2
1
0
−1
−2

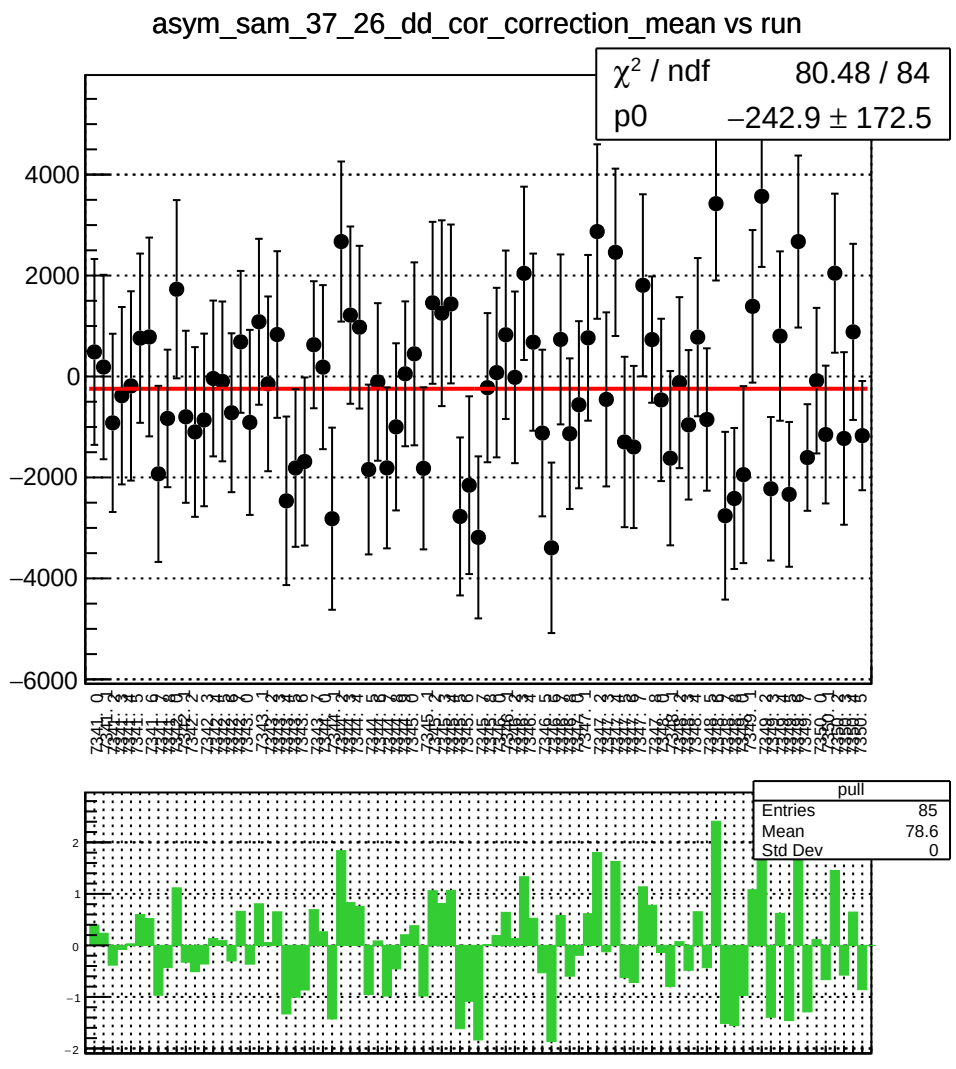

pull1D
Entries 85
Mean 0.01323
Std Dev 0.973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

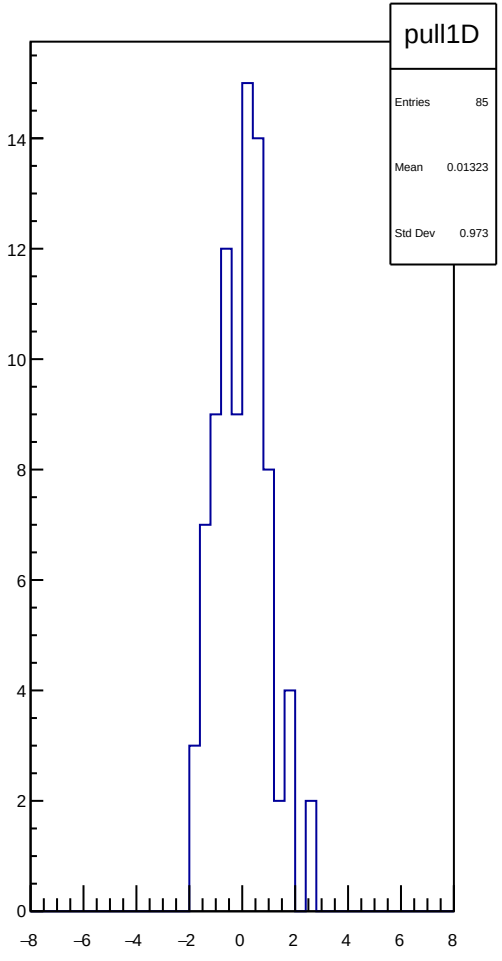

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 8525 / 84
p0 154.6 ± 0.122
190
180
170
160
150
140
130

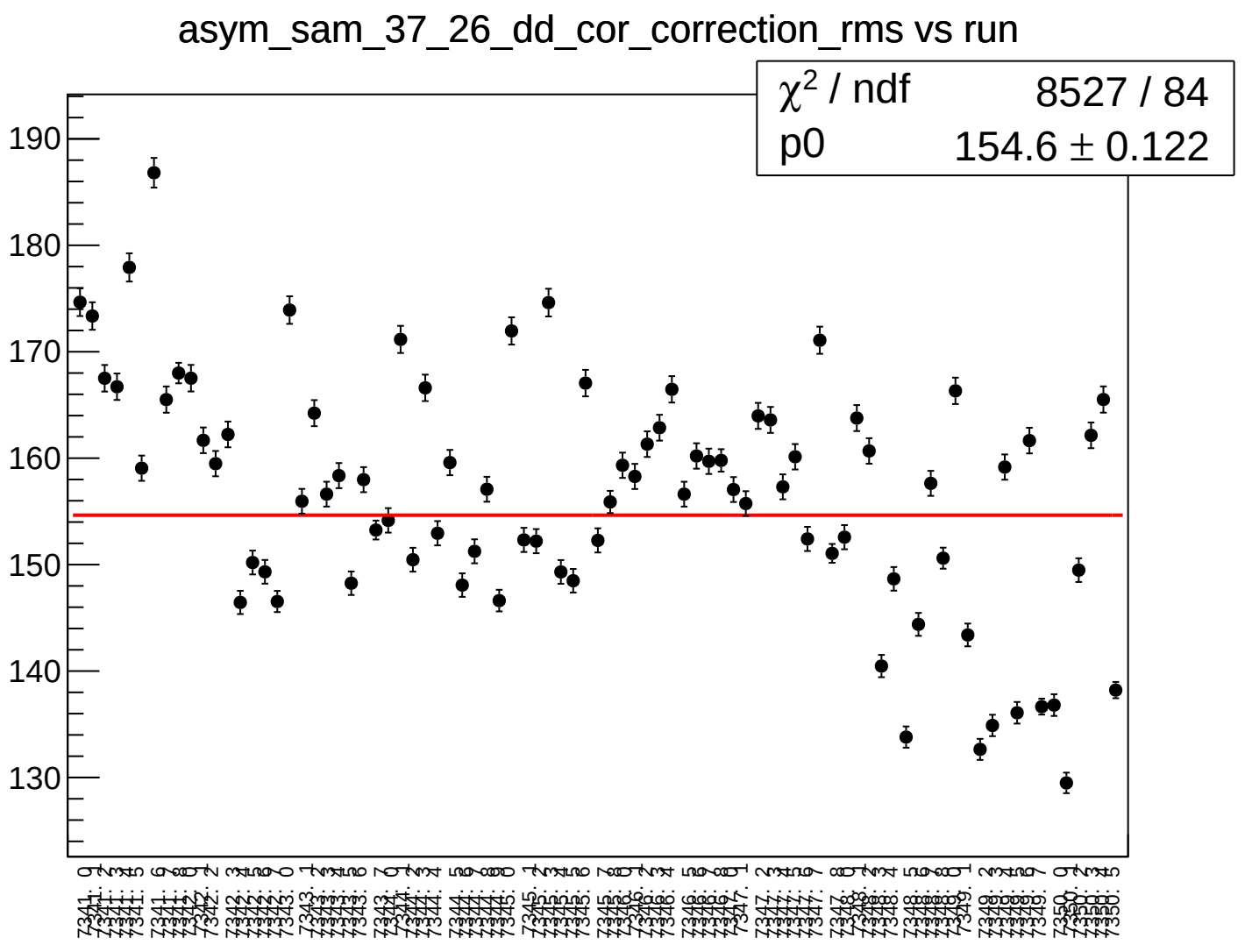

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.96 / 84
p0 86.03 ± 43.29
1500
1000
500
0
−500
−1000
−1500
pull
Entries 85
Mean 178.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

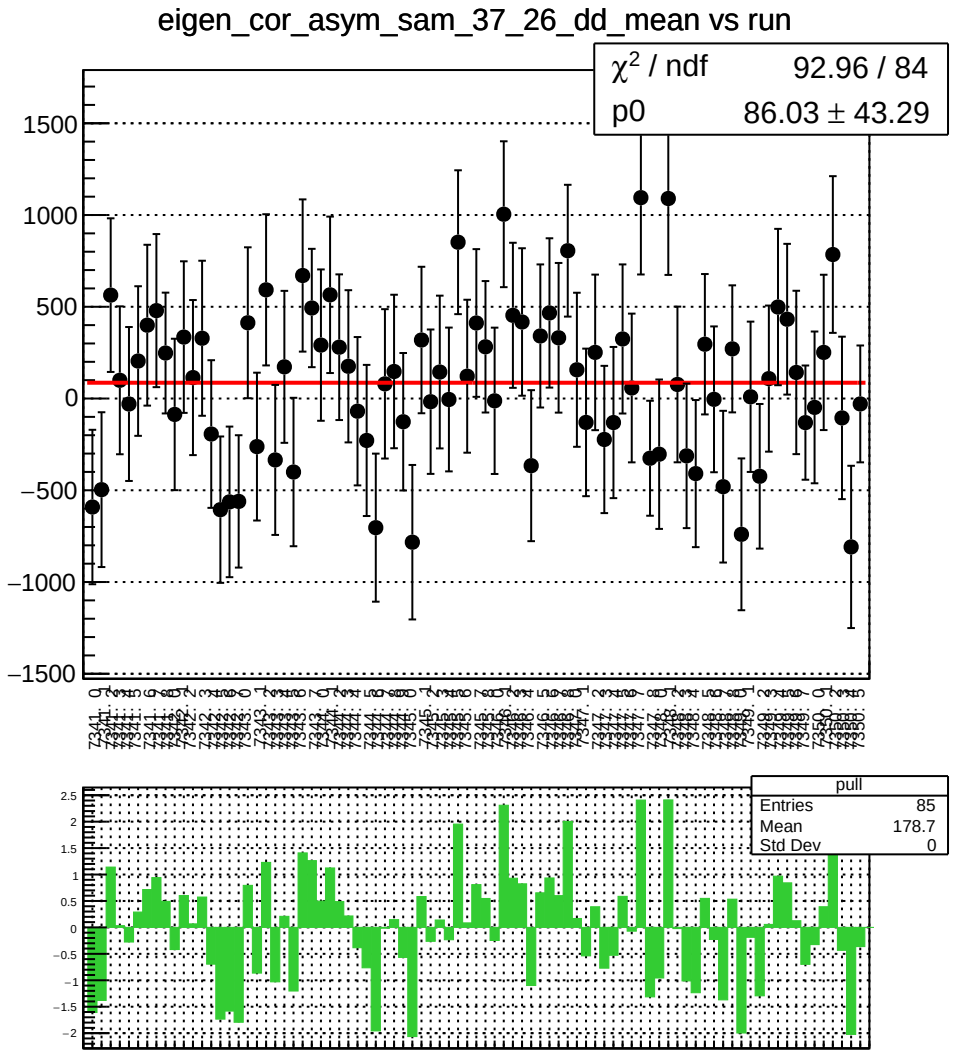

pull1D
Entries 85
Mean 0.00157
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

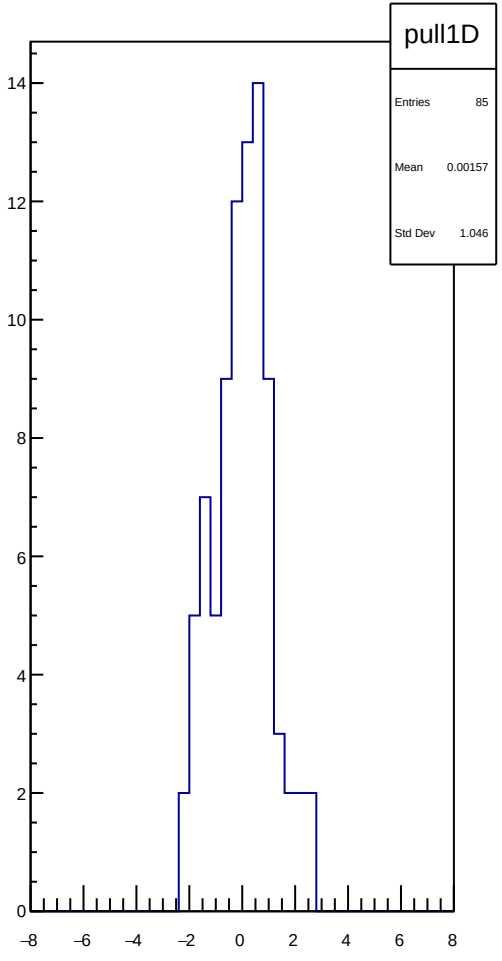

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1461 / 84
p0 38.9 ± 0.03061
43
42
41
40
39
38
37
36

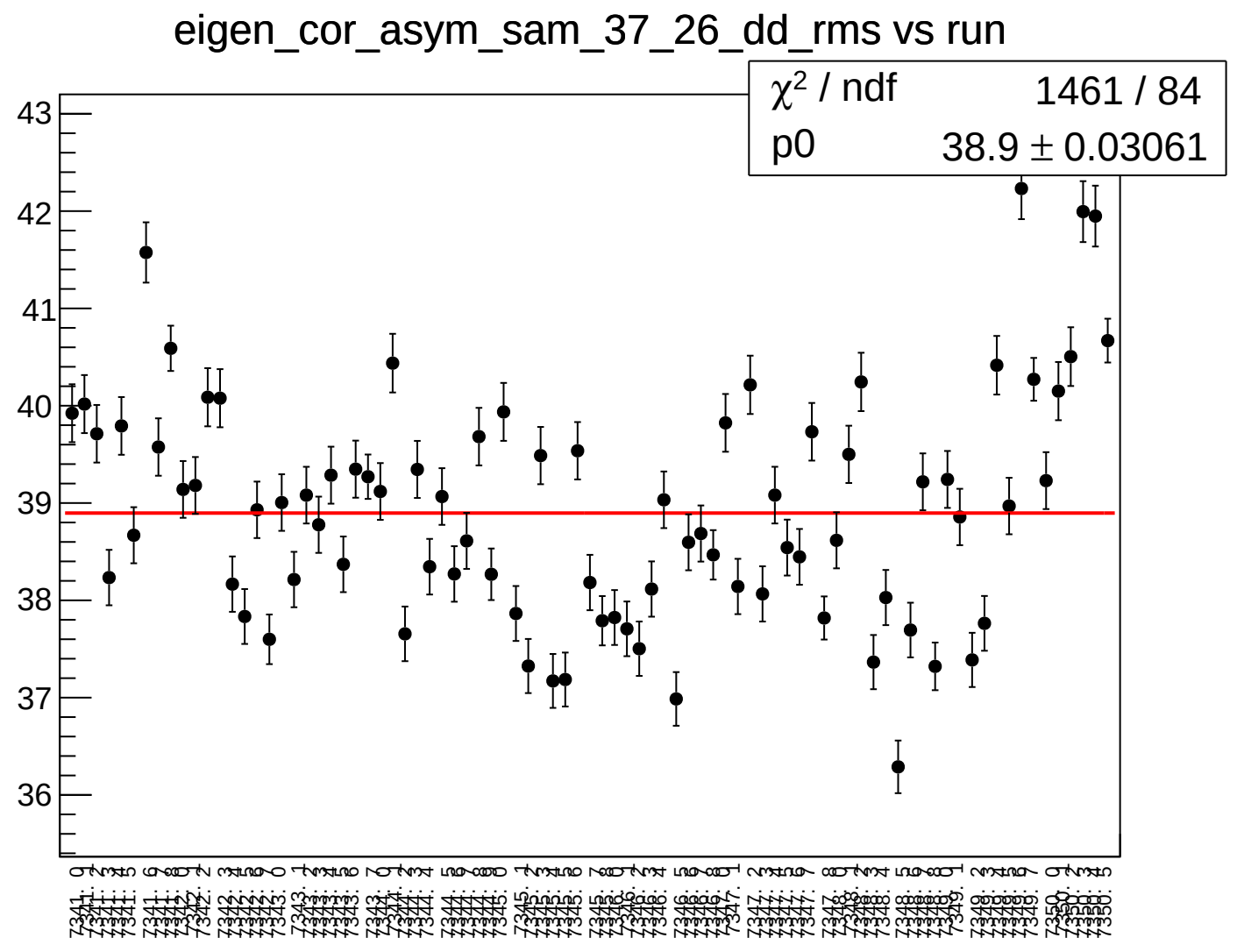

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 80.48 / 84
p0 −242.9 ± 172.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 78.6
Std Dev 0
2
1
0
−1
−2

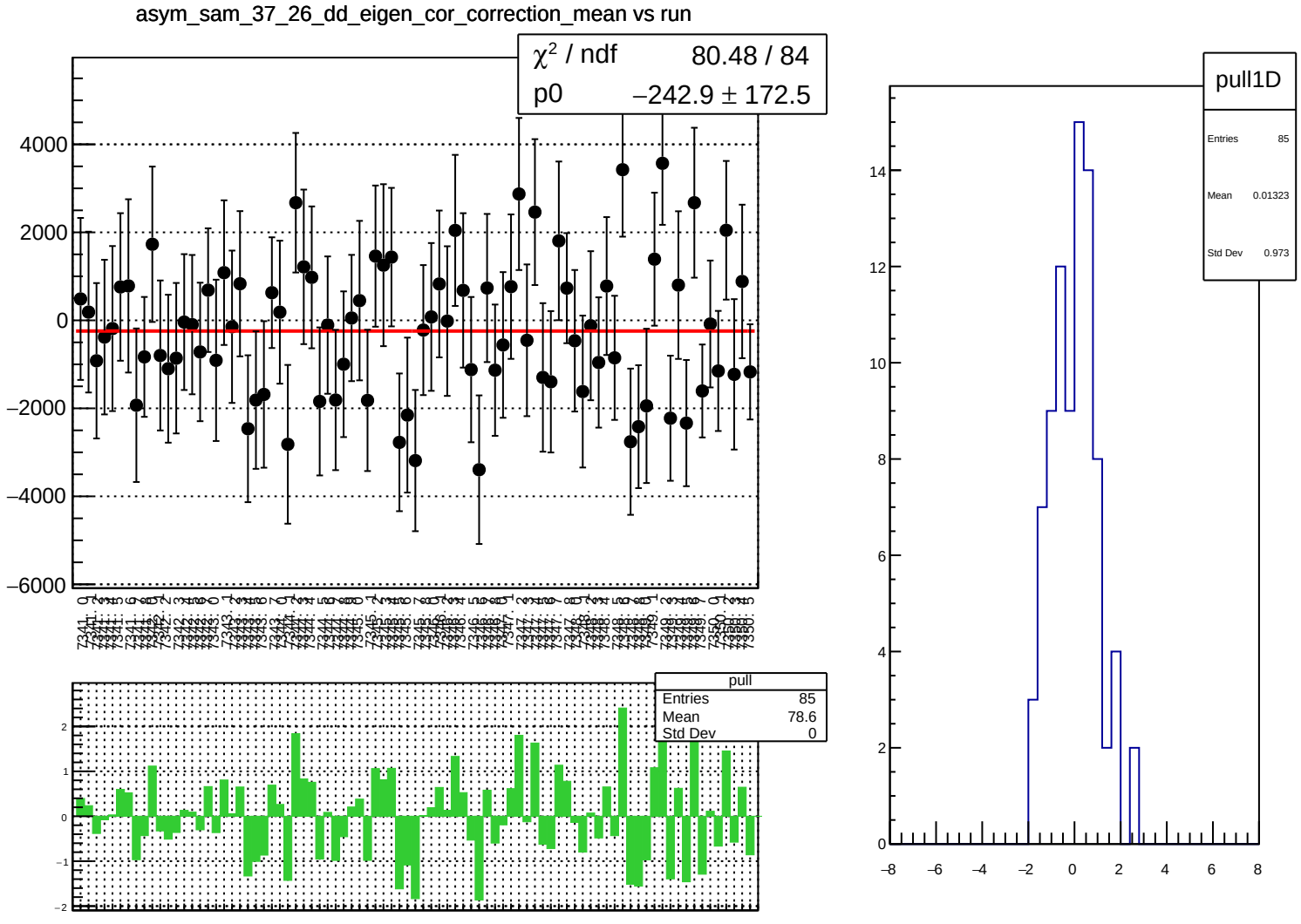

pull1D
Entries 85
Mean 0.01323
Std Dev 0.973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

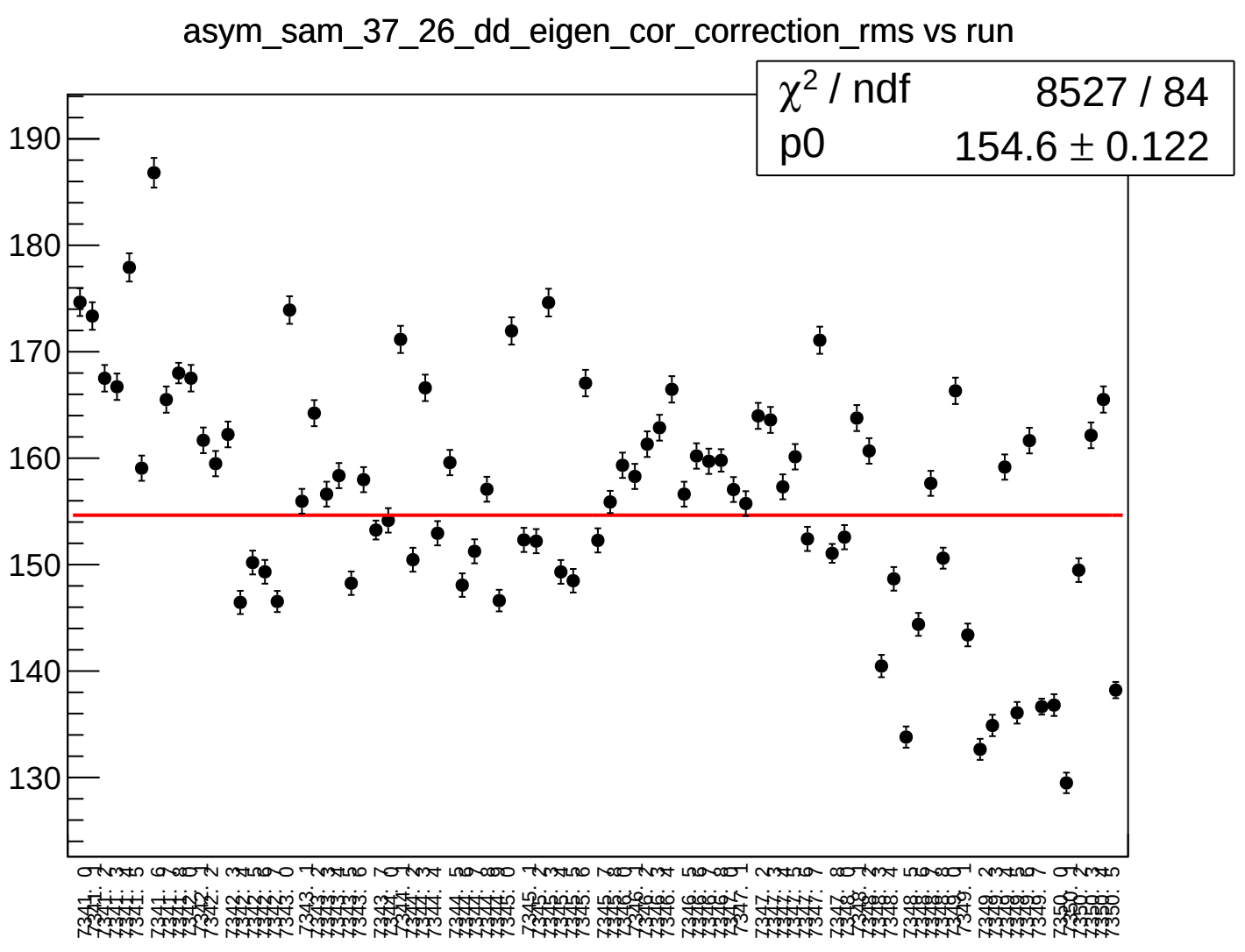

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 8527 / 84
p0 154.6 ± 0.122
190
180
170
160
150
140
130

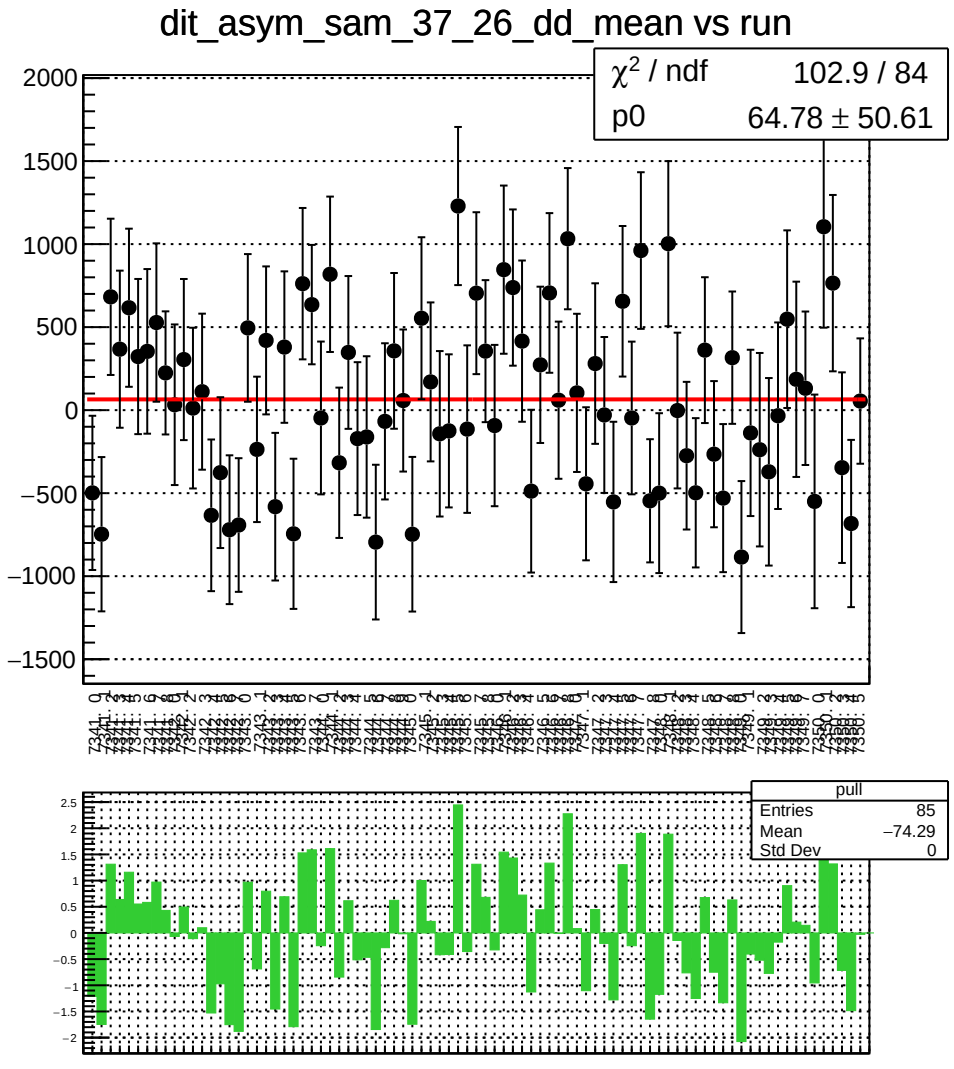

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.96 / 84
p0 86.03 ± 43.29
pull
Entries 85
Mean 178.7
Std Dev 0

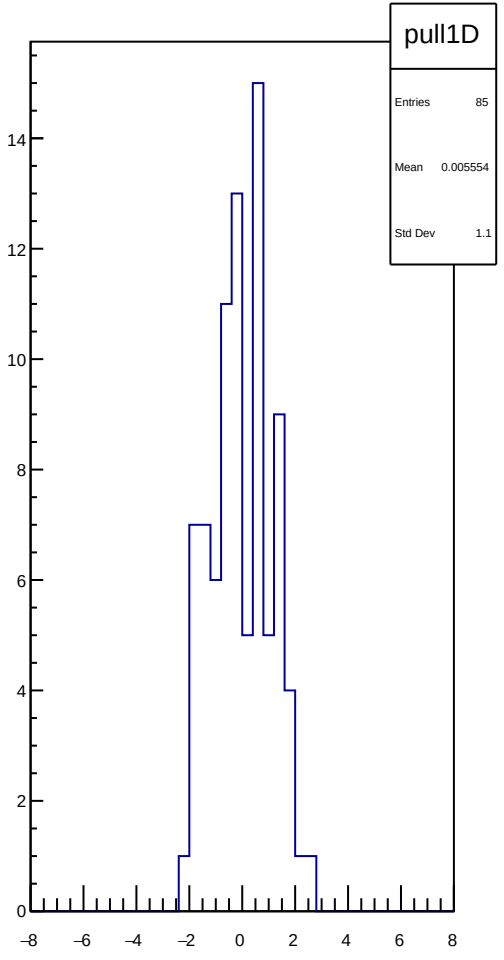

pull1D
Entries 85
Mean 0.00157
Std Dev 1.046

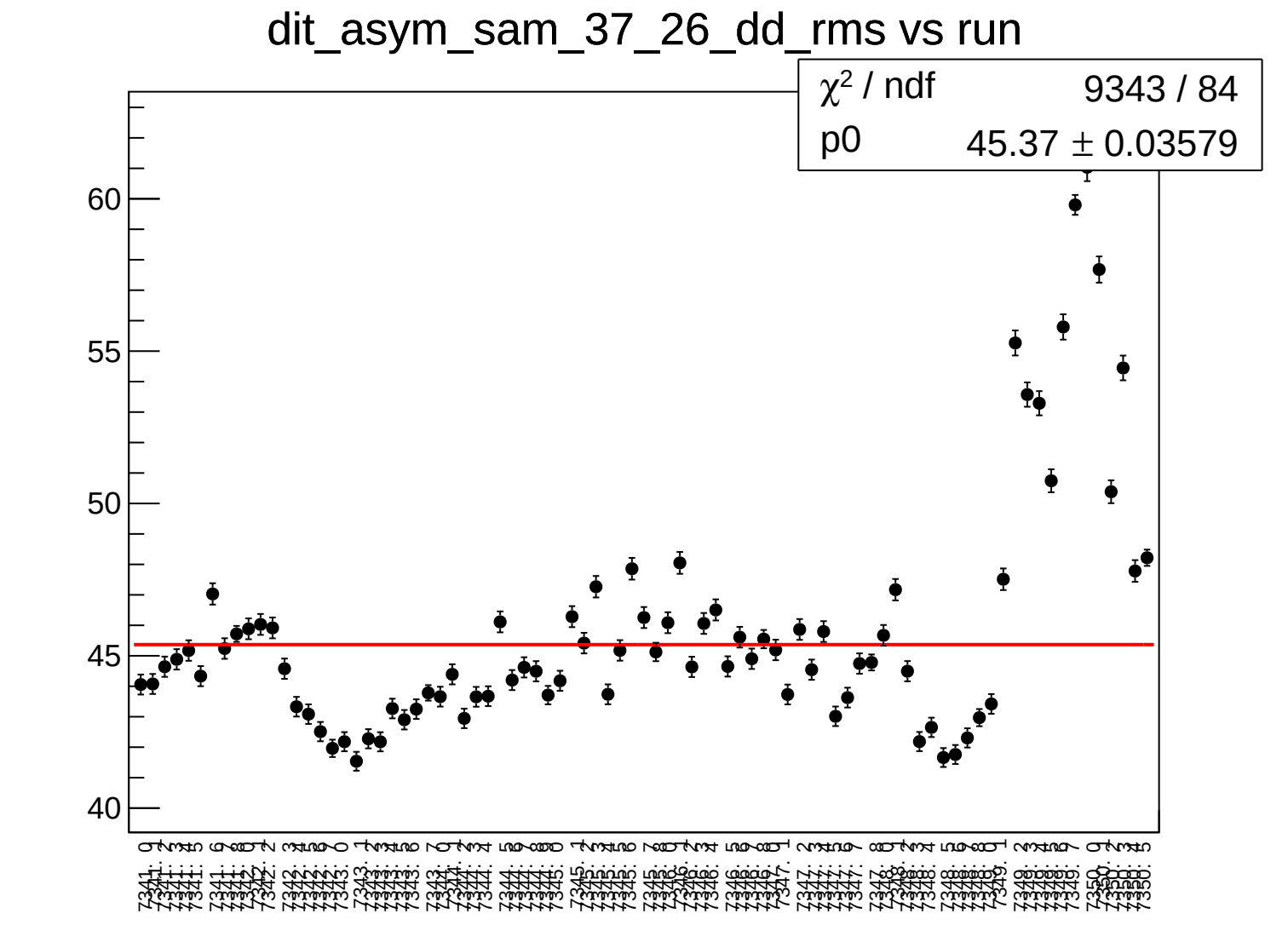

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1461 / 84
p0 38.9 ± 0.03061
43
42
41
40
39
38
37
36

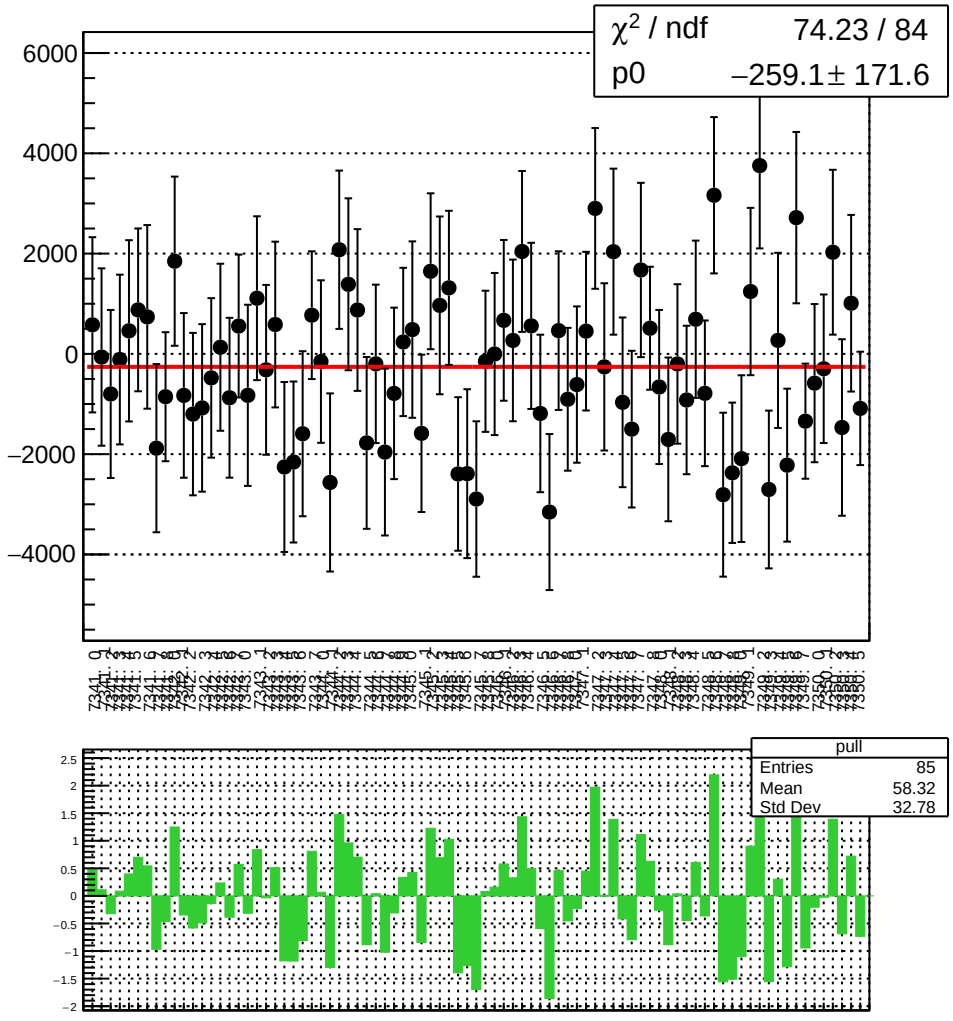

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.48 / 84
p0 −242.9 ± 172.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 78.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.01323
Std Dev 0.973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

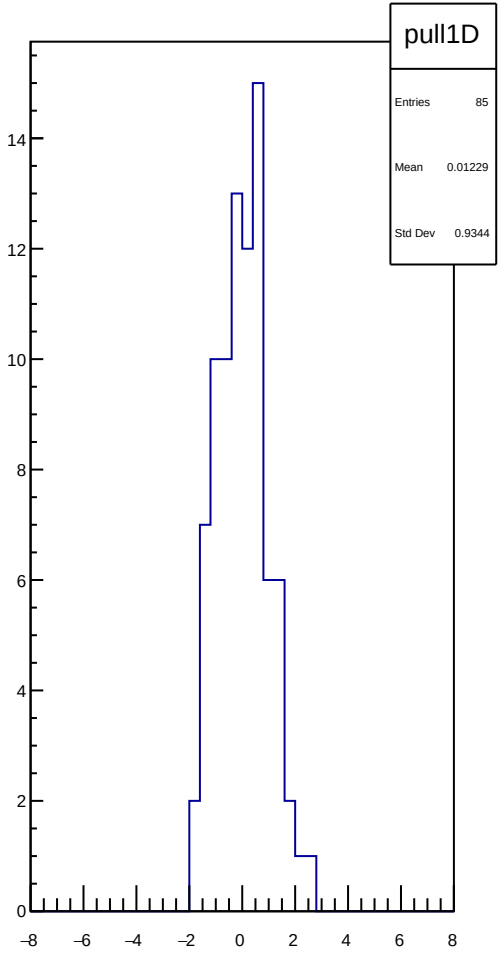

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 8527 / 84
p0 154.6 ± 0.122
190
180
170
160
150
140
130

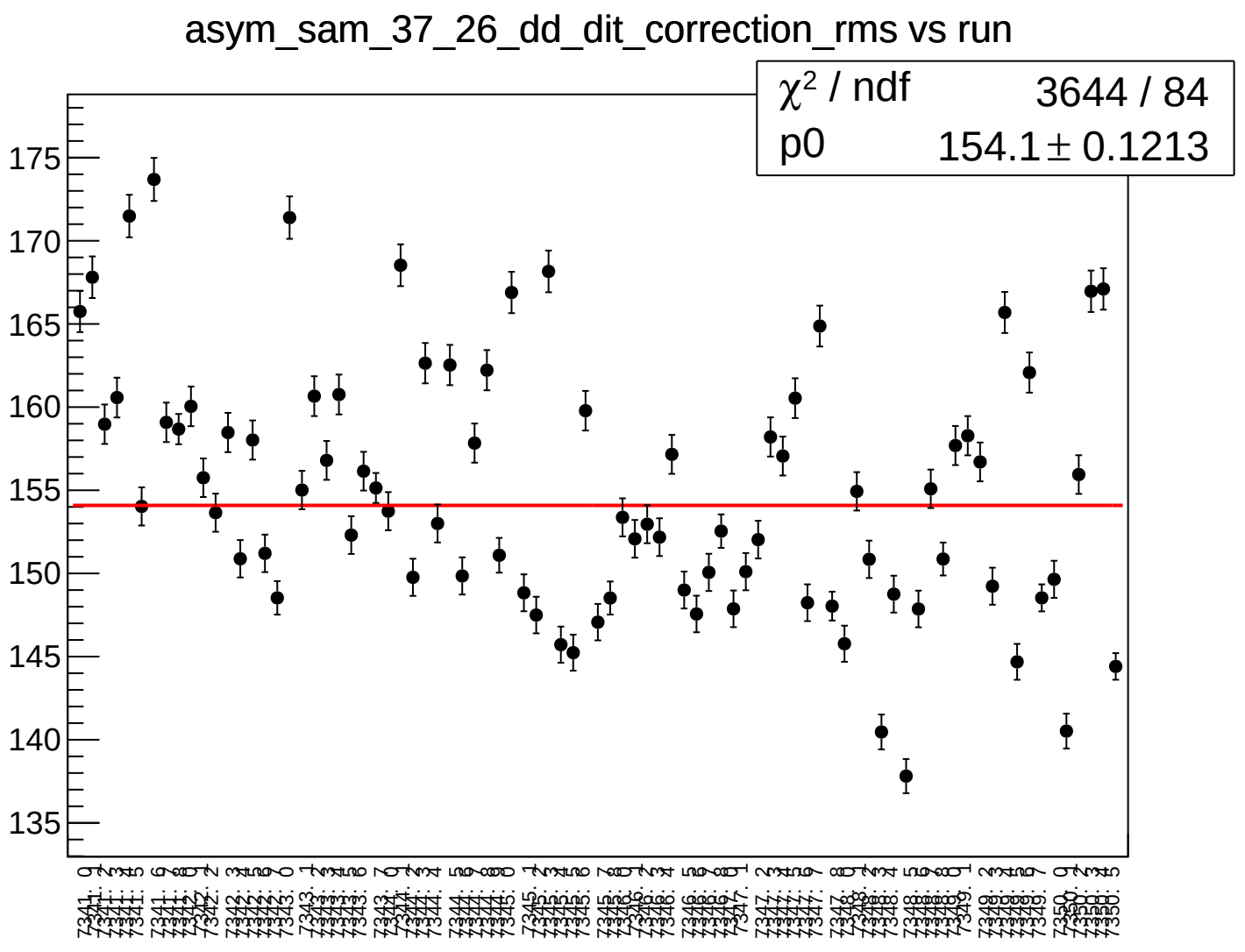

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 102.9 / 84
p0 64.78 ± 50.61
pull
Entries 85
Mean −74.29
Std Dev 0

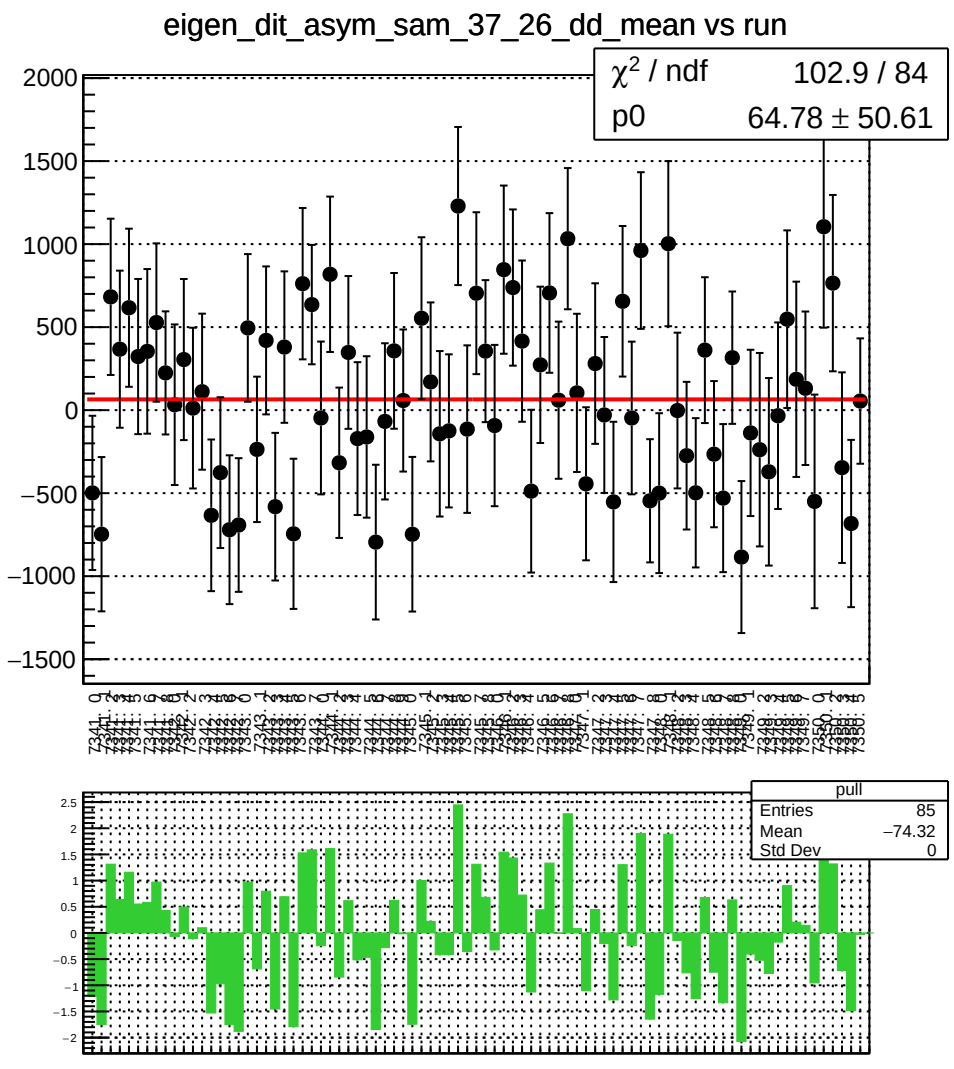

pull1D
Entries 85
Mean 0.005554
Std Dev 1.1

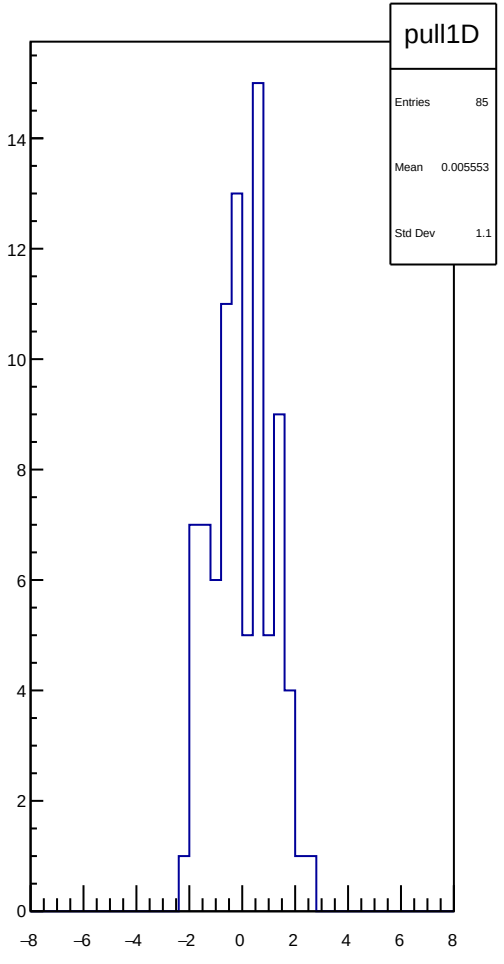

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 9343 / 84
p0 45.37 ± 0.03579
60
55
50
45
40

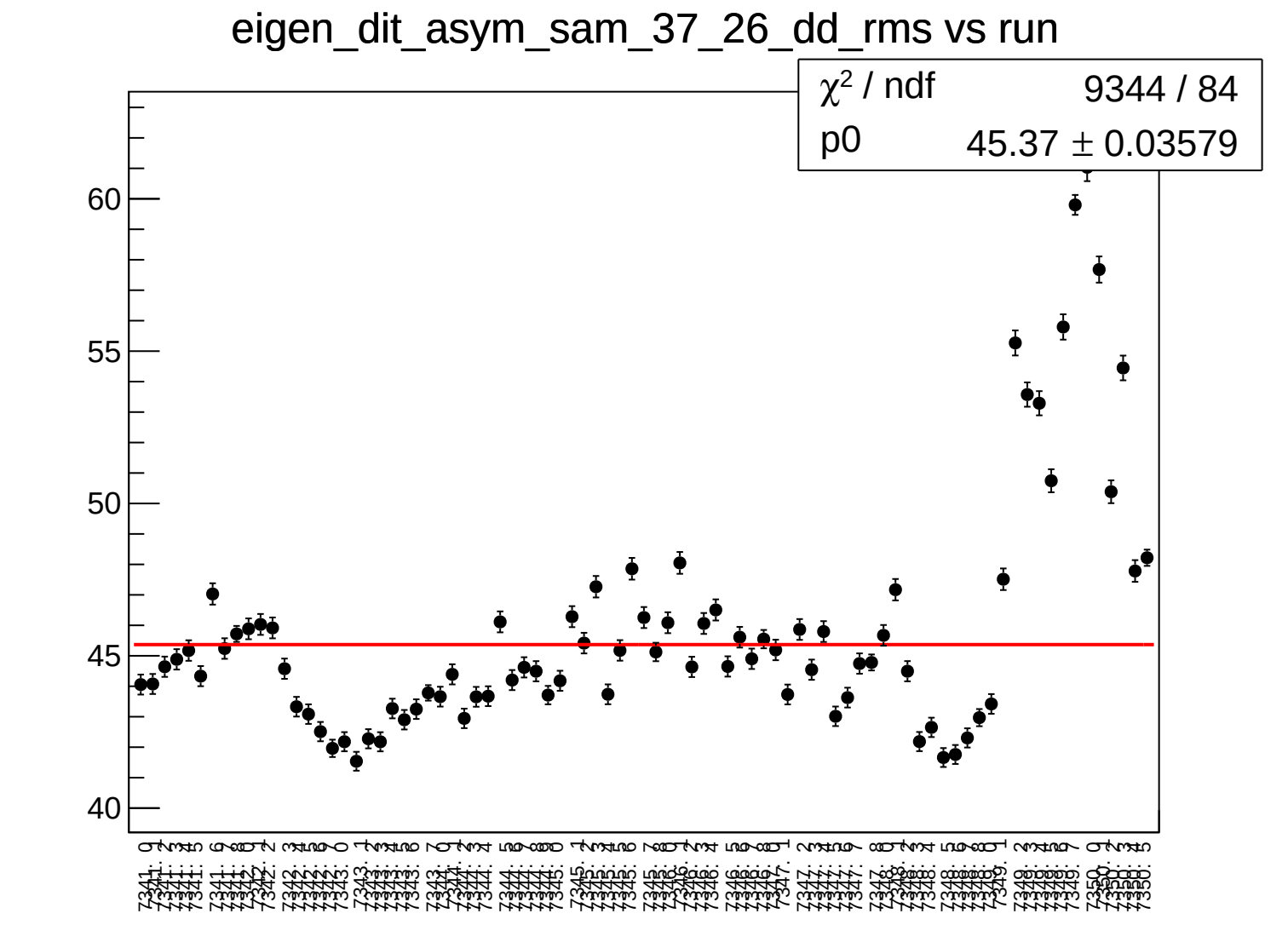

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 74.23 / 84
p0 −259.1± 171.6
pull
Entries 85
Mean 58.32
Std Dev 32.78

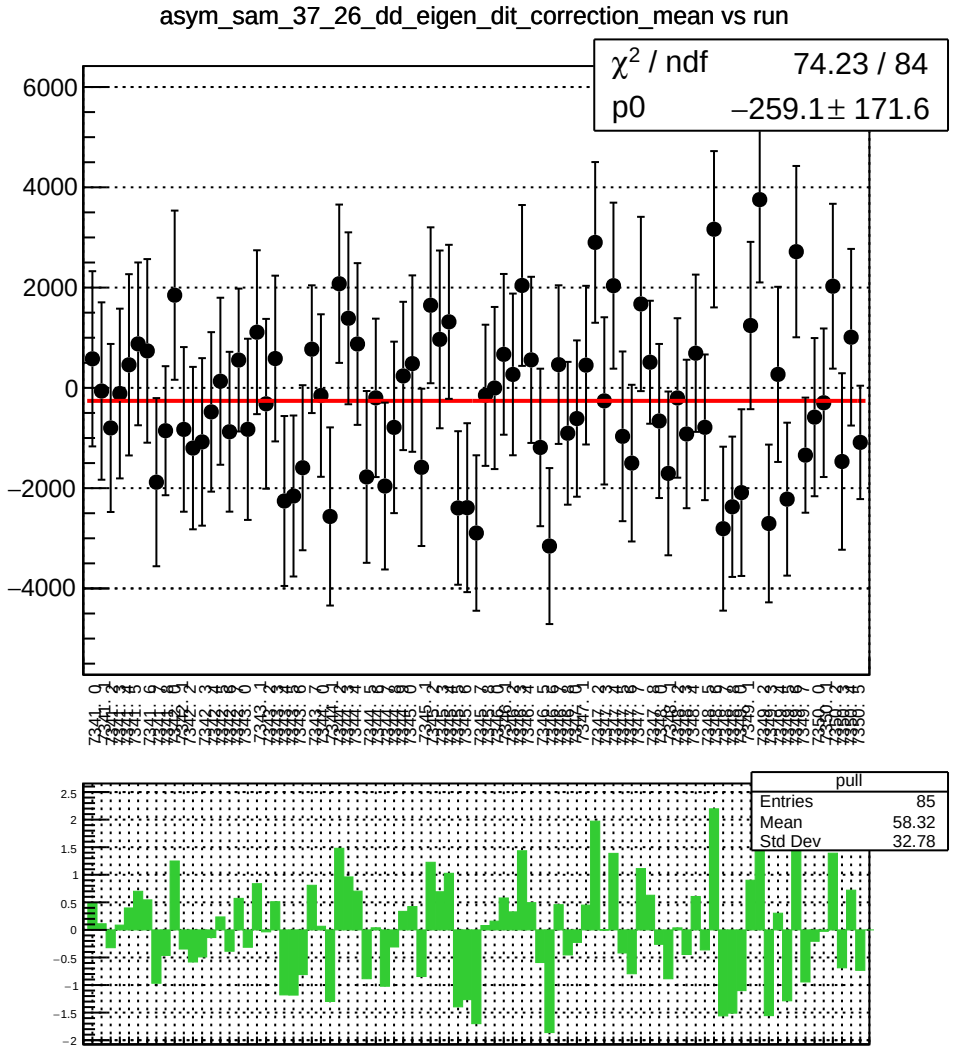

pull1D
Entries 85
Mean 0.01229
Std Dev 0.9344

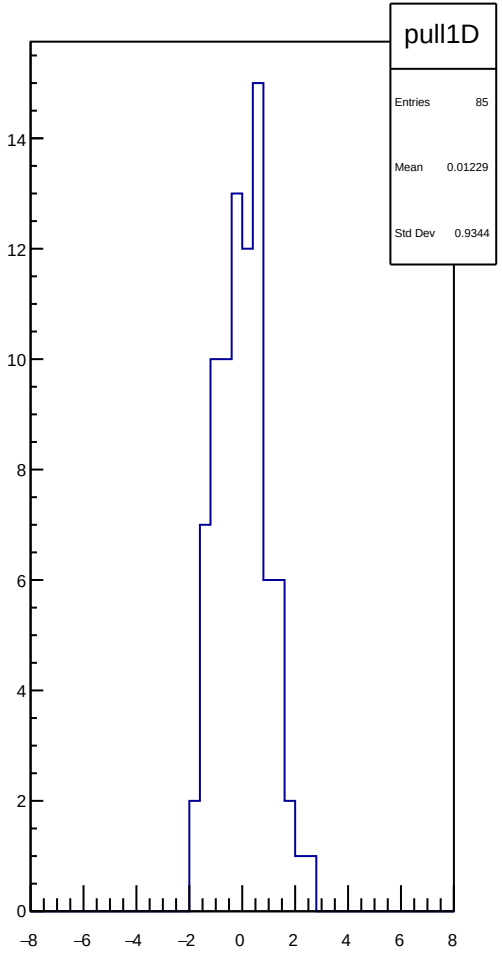

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 3644 / 84
p0 154.1 ± 0.1213
175
170
165
160
155
150
145
140
135

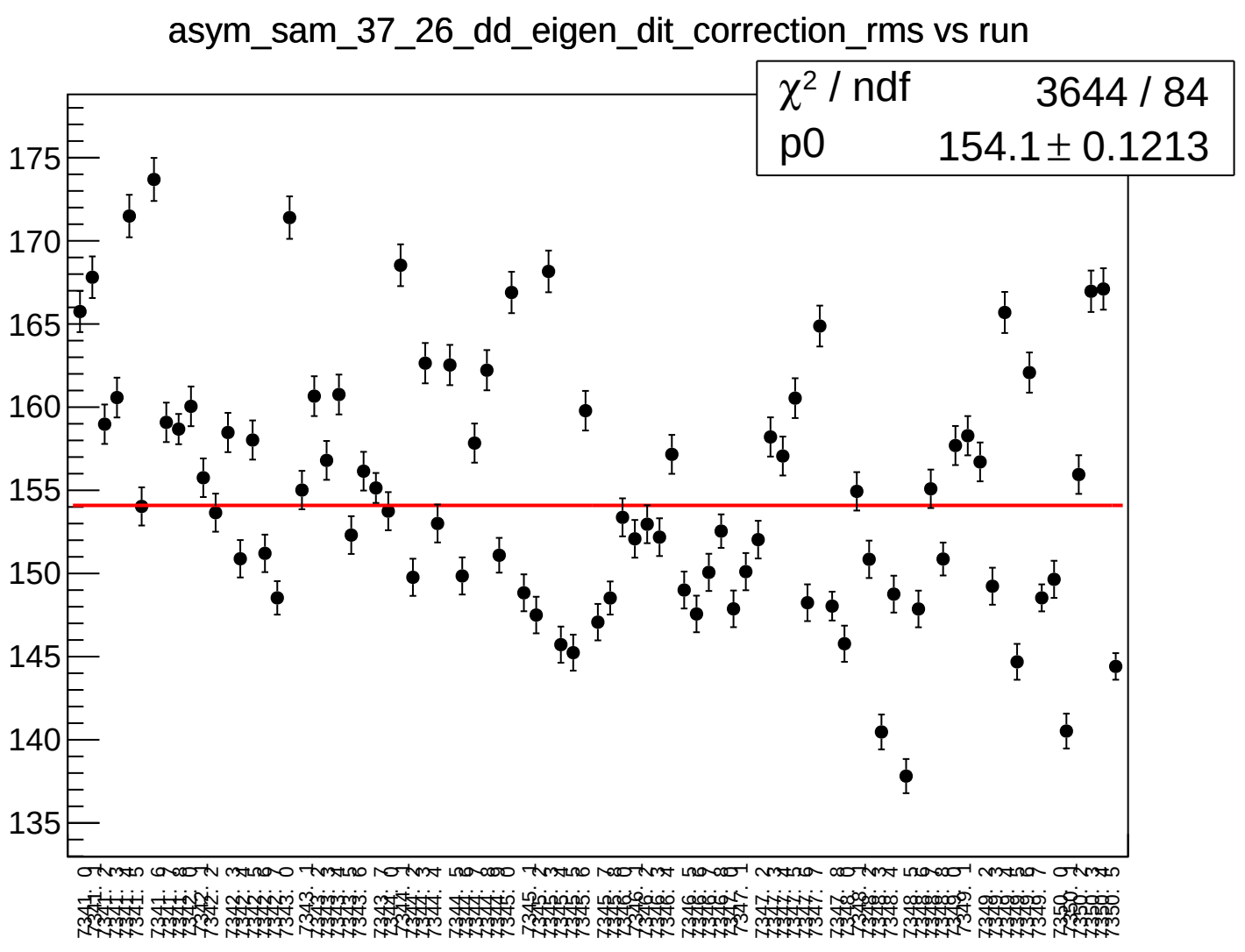

eigen_dit_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 102.9 / 84
p0 64.78 ± 50.61
pull
Entries 85
Mean −74.32
Std Dev 0

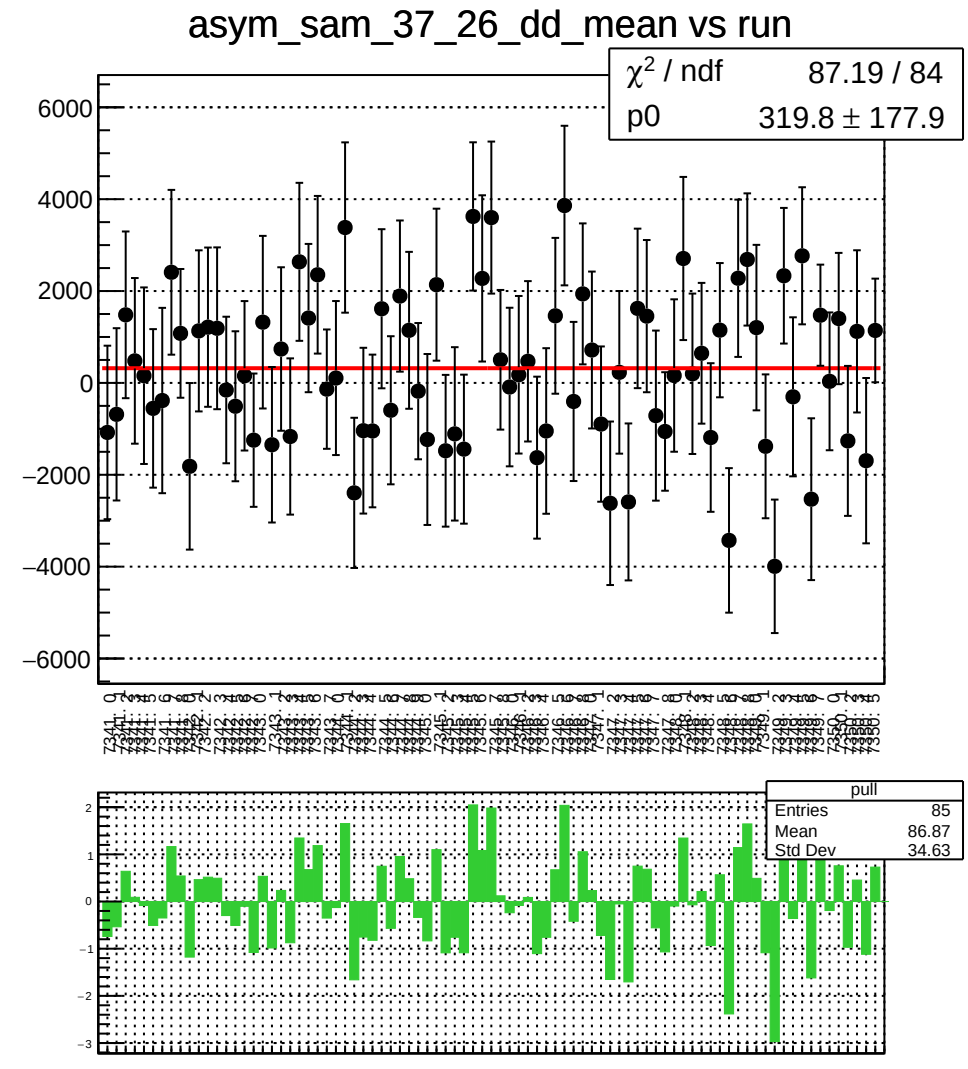

pull1D
Entries 85
Mean 0.005553
Std Dev 1.1

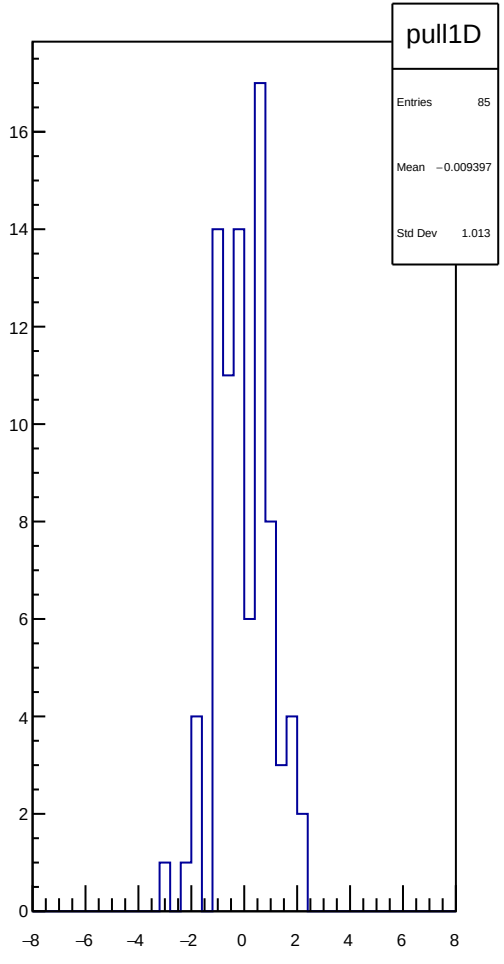

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 9344 / 84
p0 45.37 ± 0.03579
60
55
50
45
40

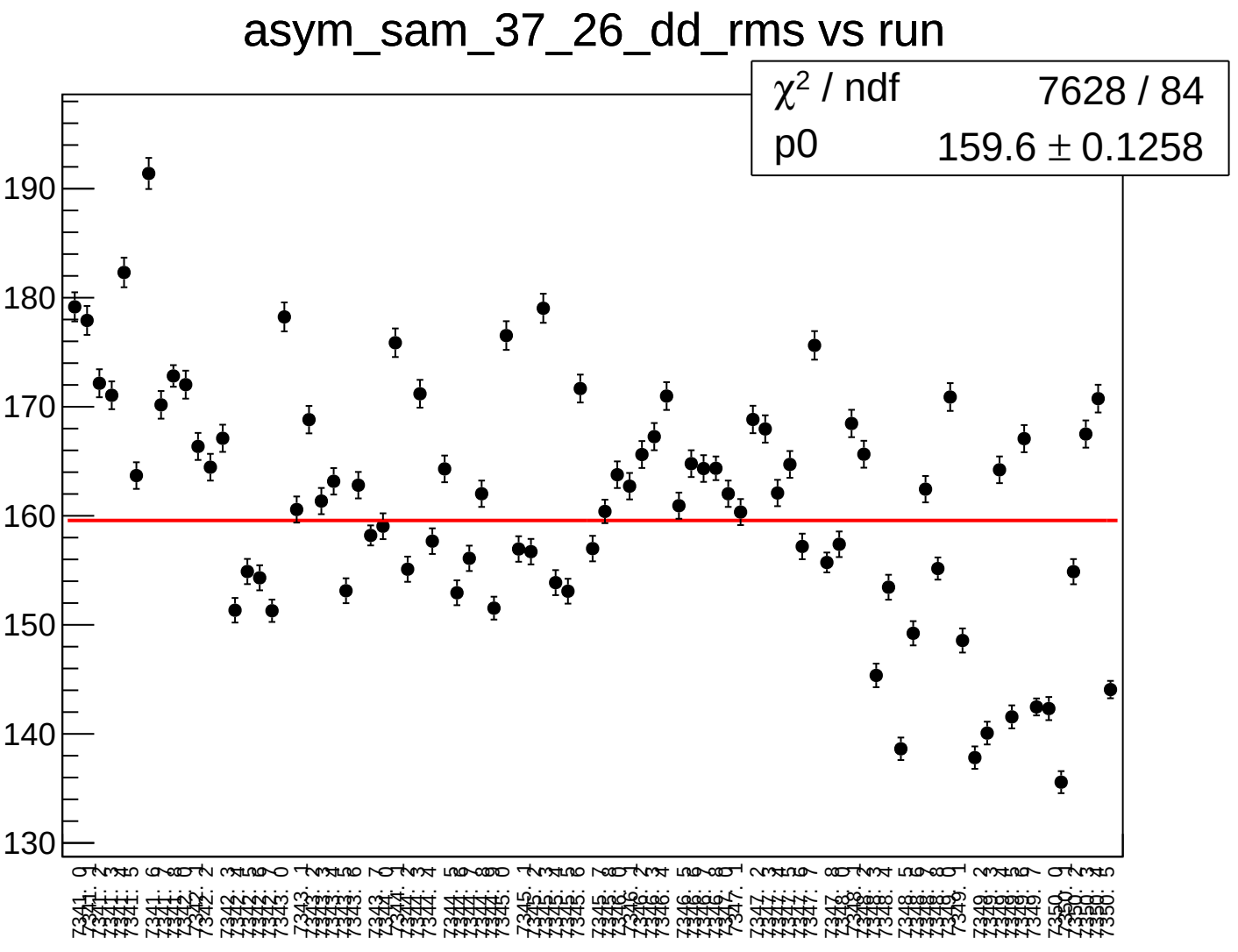

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.23 / 84
p0 −259.1± 171.6
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean 58.32
Std Dev 32.78
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

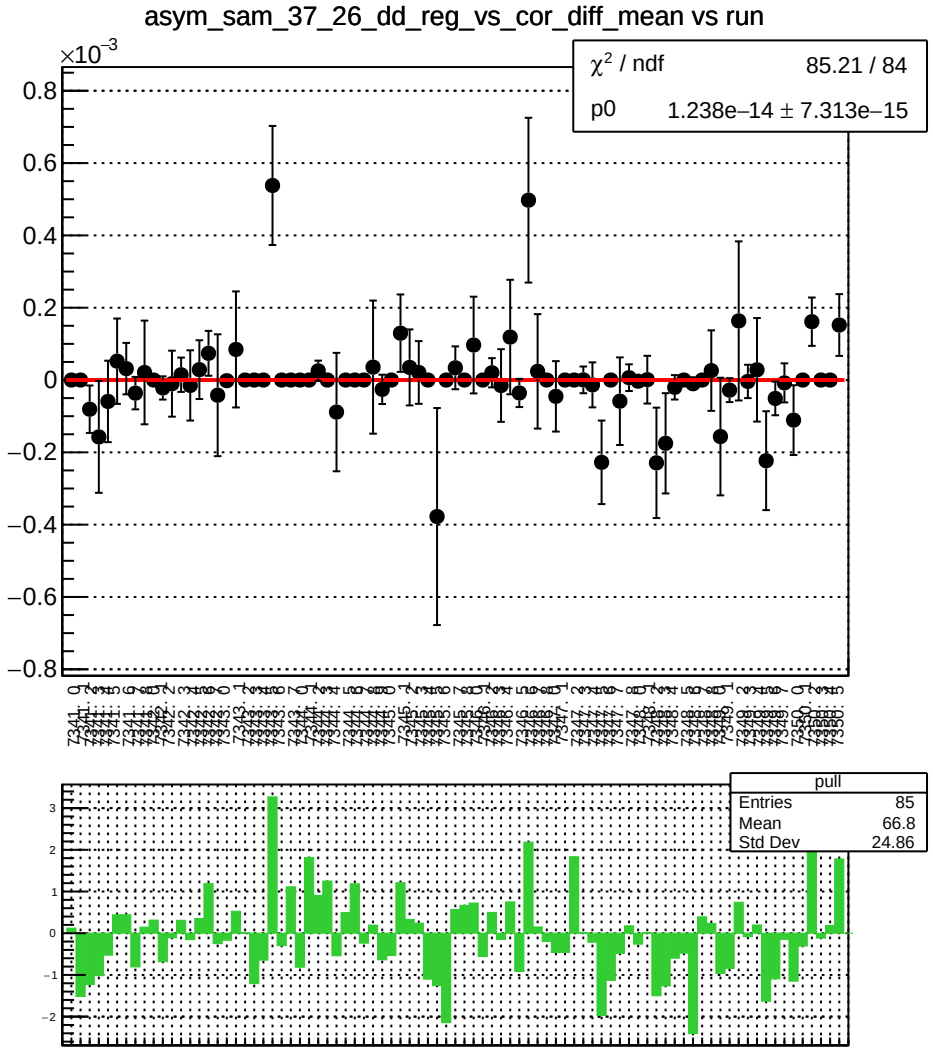

pull1D
Entries 85
Mean 0.01229
Std Dev 0.9344
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

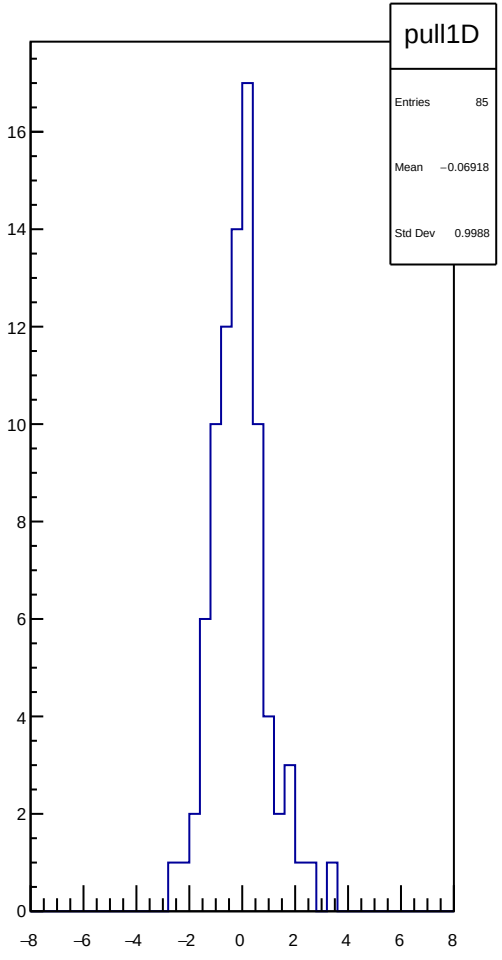

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3644 / 84
p0 154.1 ± 0.1213
175
170
165
160
155
150
145
140
135

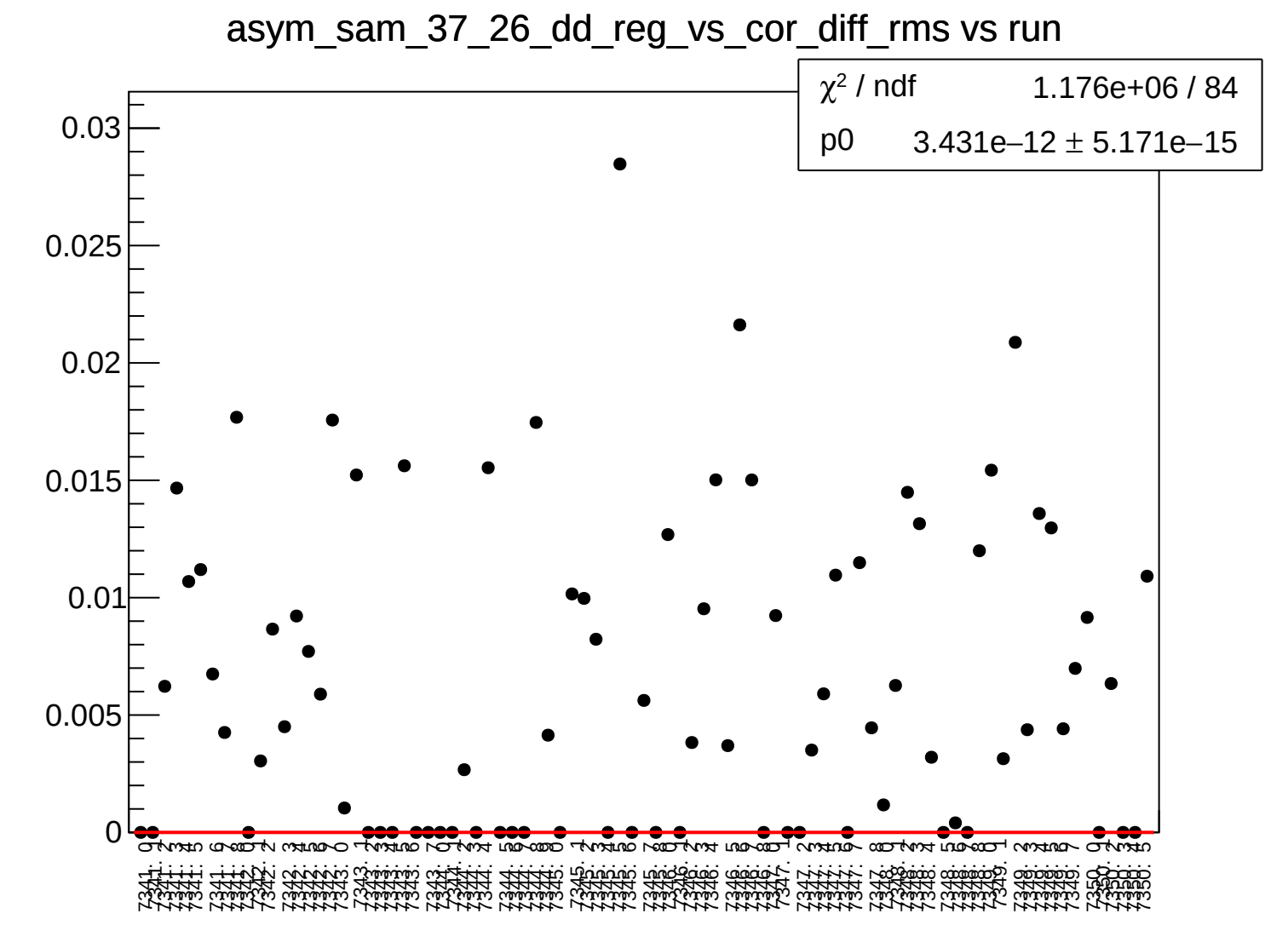

asym_sam_37_26_dd_mean vs run
χ² / ndf 87.19 / 84
p0 319.8 ± 177.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean 86.87
Std Dev 34.63
2
1
0
−1
−2
−3

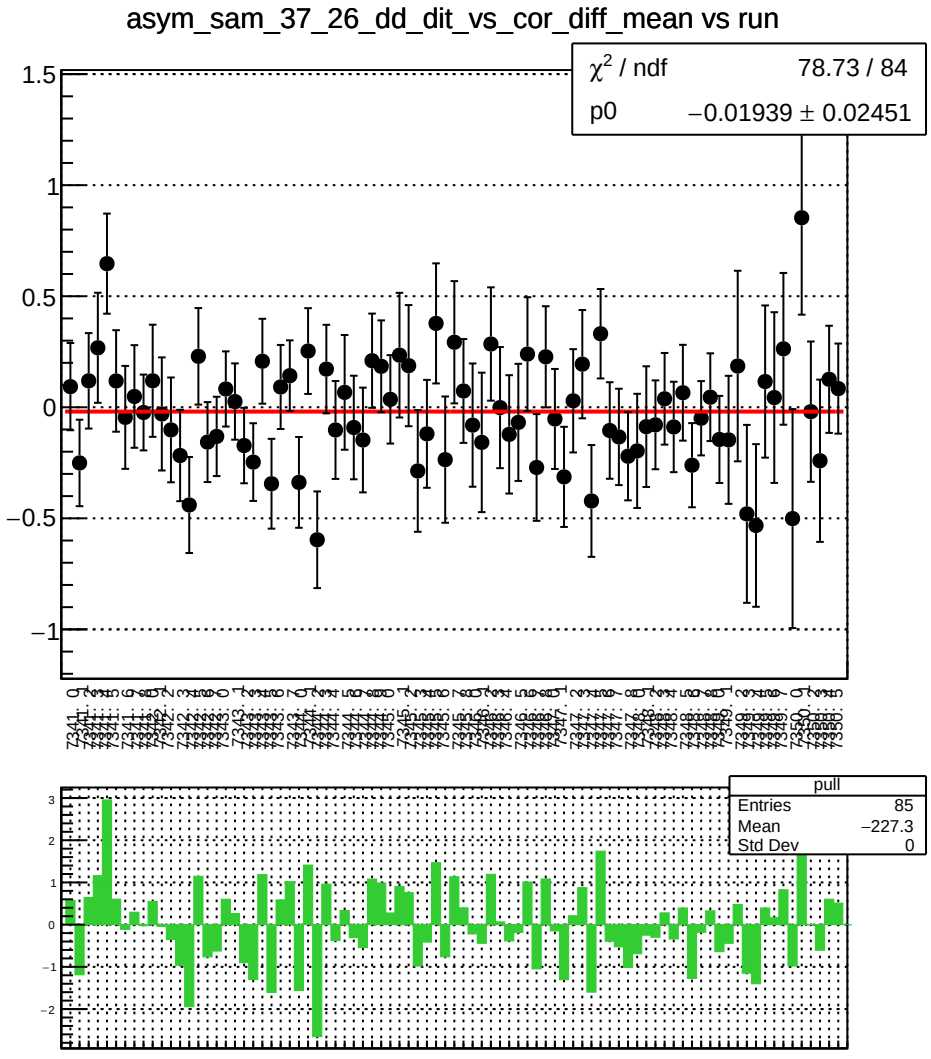

pull1D
Entries 85
Mean −0.009397
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

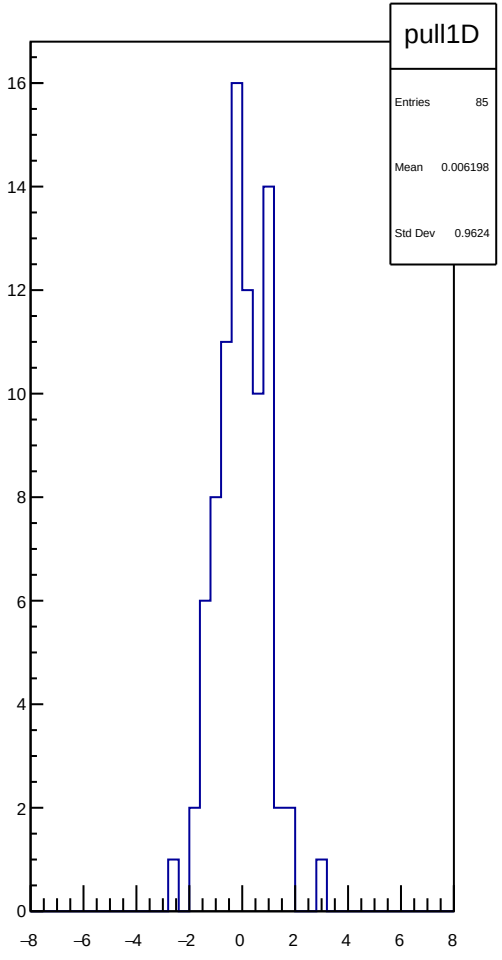

asym_sam_37_26_dd_rms vs run
χ² / ndf 7628 / 84
p0 159.6 ± 0.1258
190
180
170
160
150
140
130

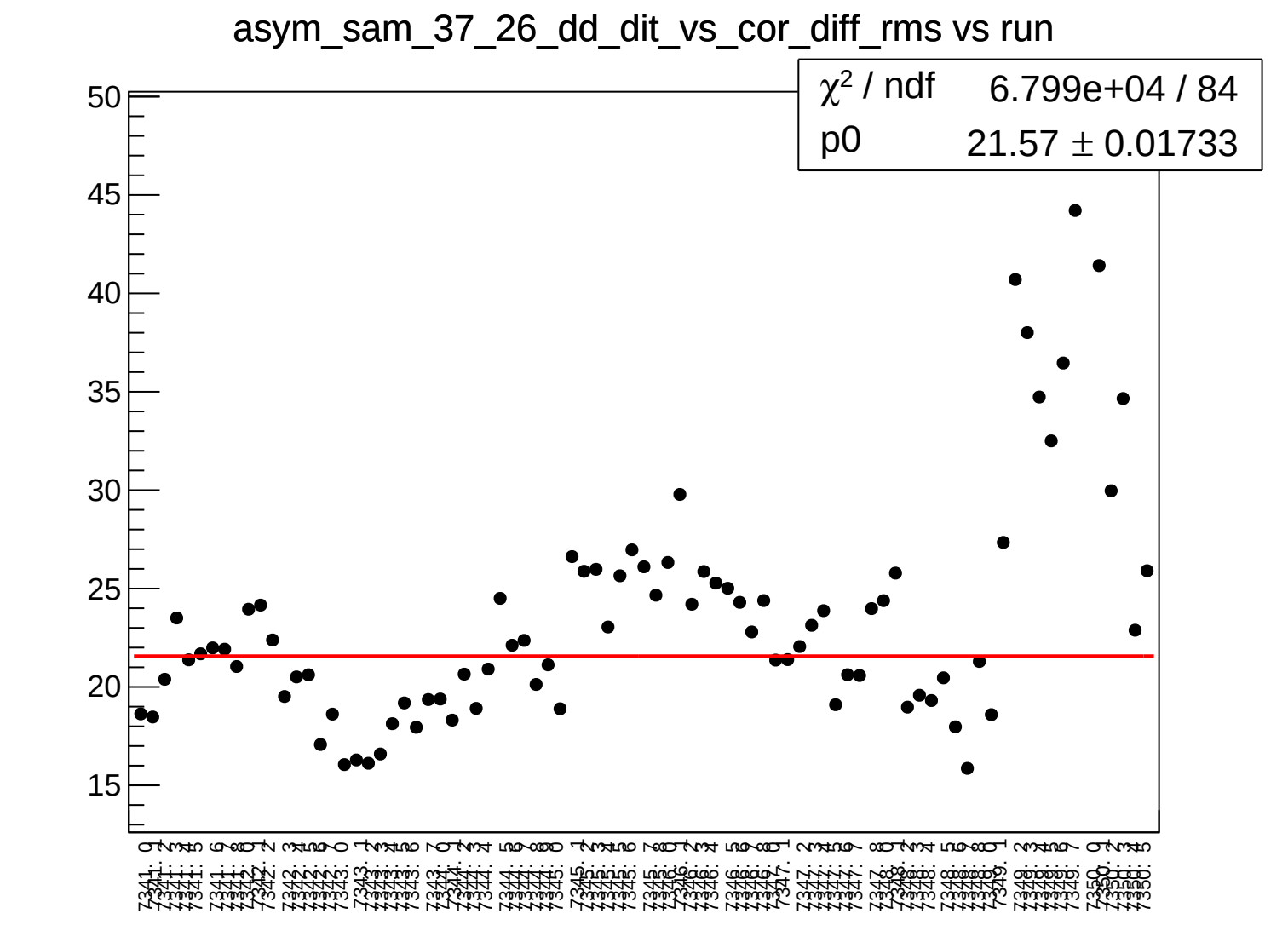

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 85.21 / 84
p0 1.238e−14 ± 7.313e−15
pull
Entries 85
Mean 66.8
Std Dev 24.86

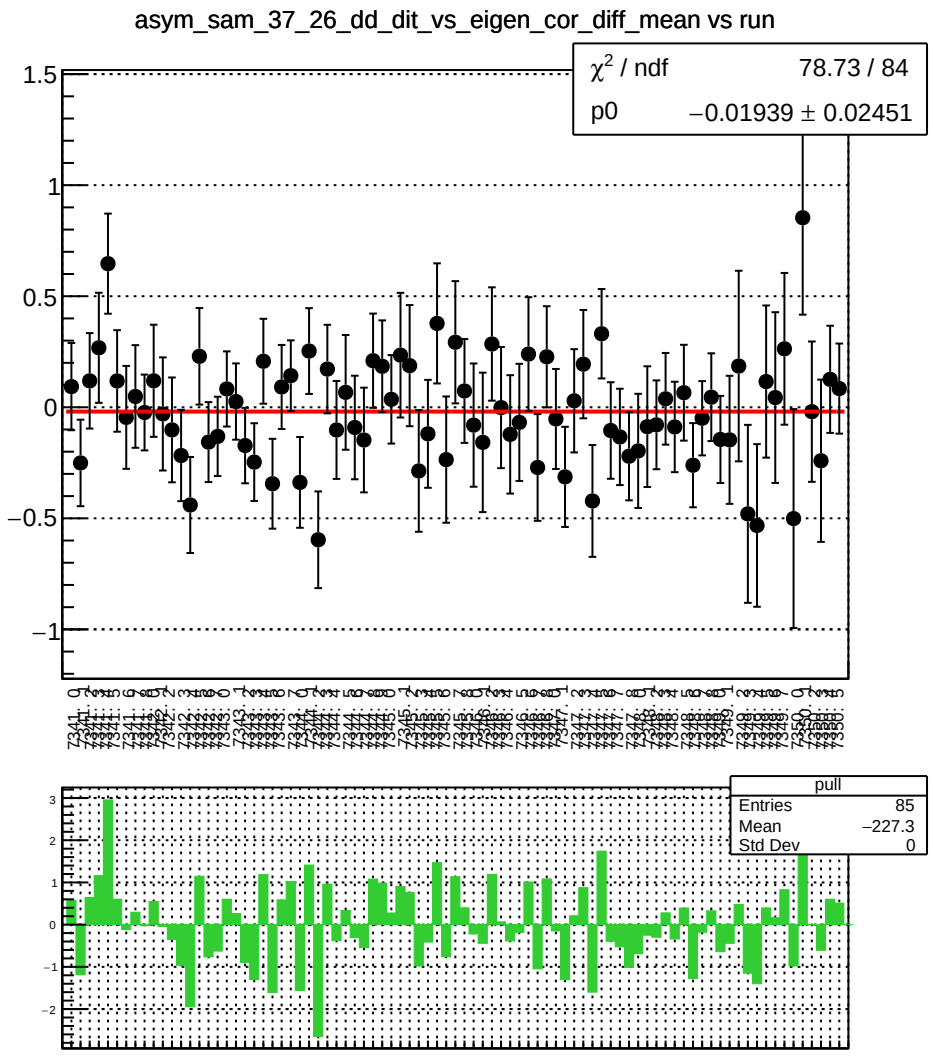

pull1D
Entries 85
Mean −0.06918
Std Dev 0.9988

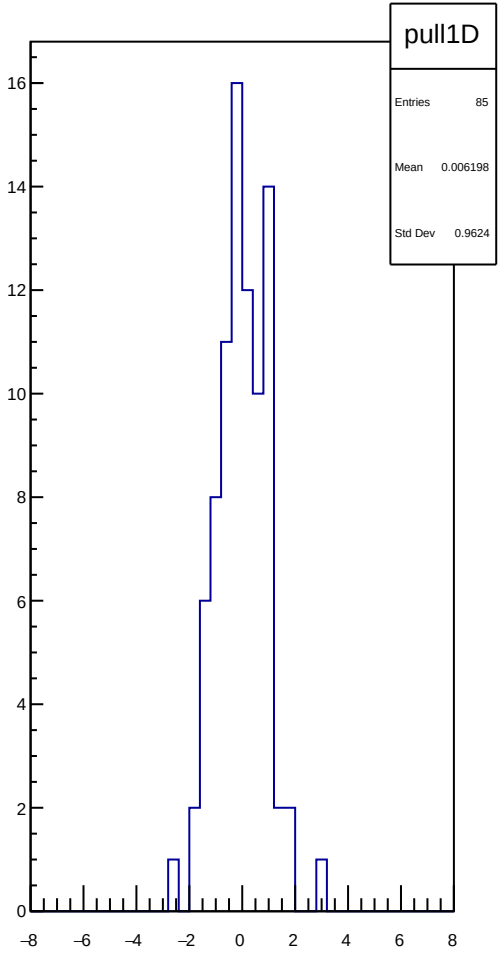

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.176e+06 / 84
p0 3.431e−12 ± 5.171e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

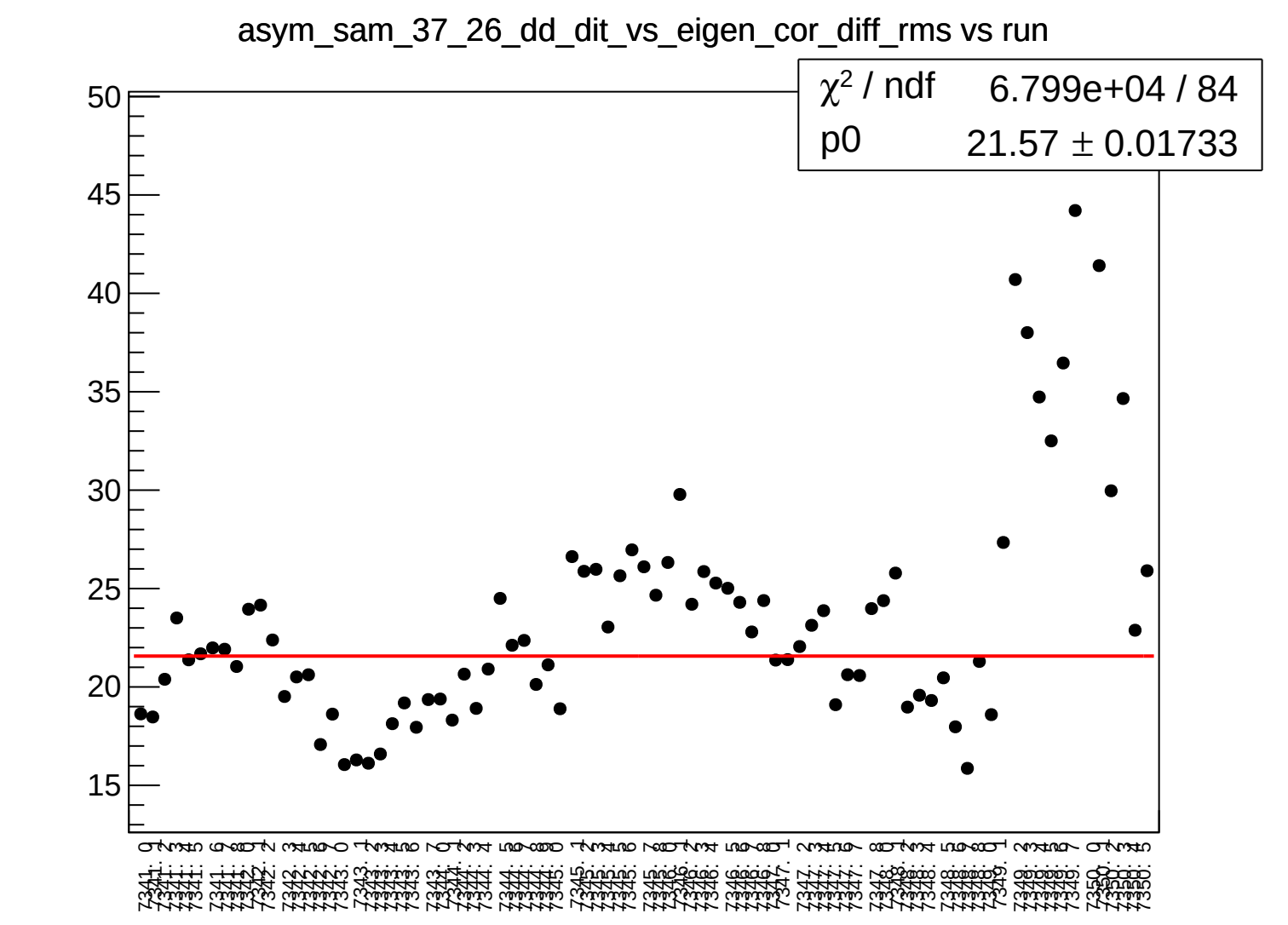

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.73 / 84
p0 −0.01939 ± 0.02451
pull
Entries 85
Mean −227.3
Std Dev 0

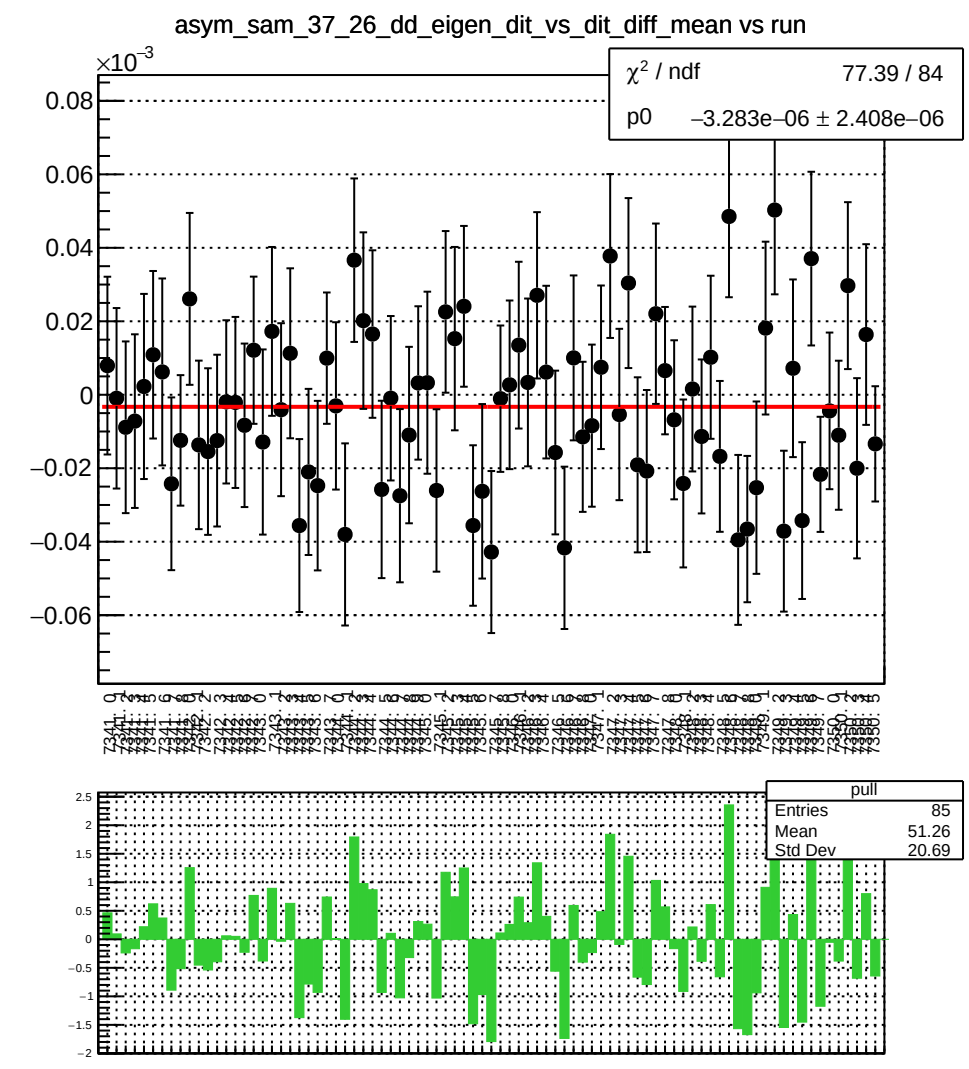

pull1D
Entries 85
Mean 0.006198
Std Dev 0.9624

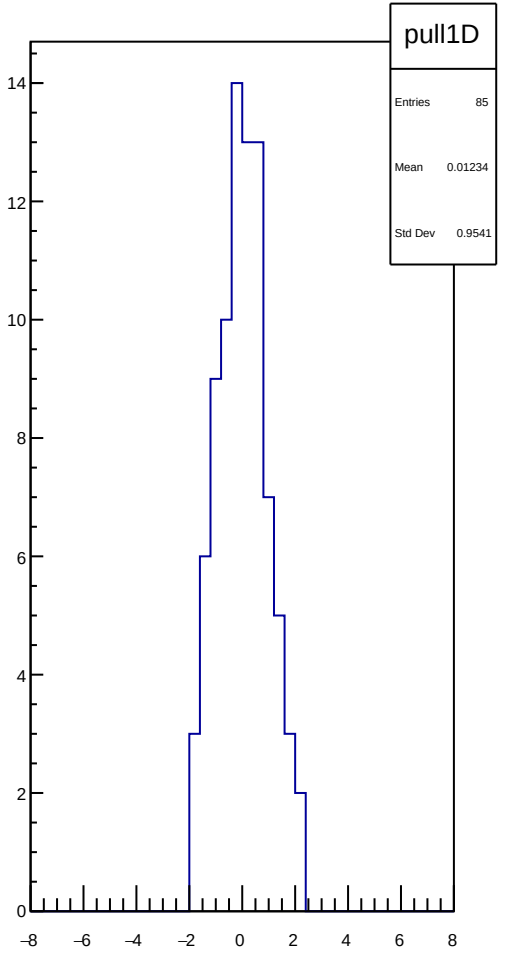

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.799e+04 / 84
p0 21.57 ± 0.01733
50
45
40
35
30
25
20
15

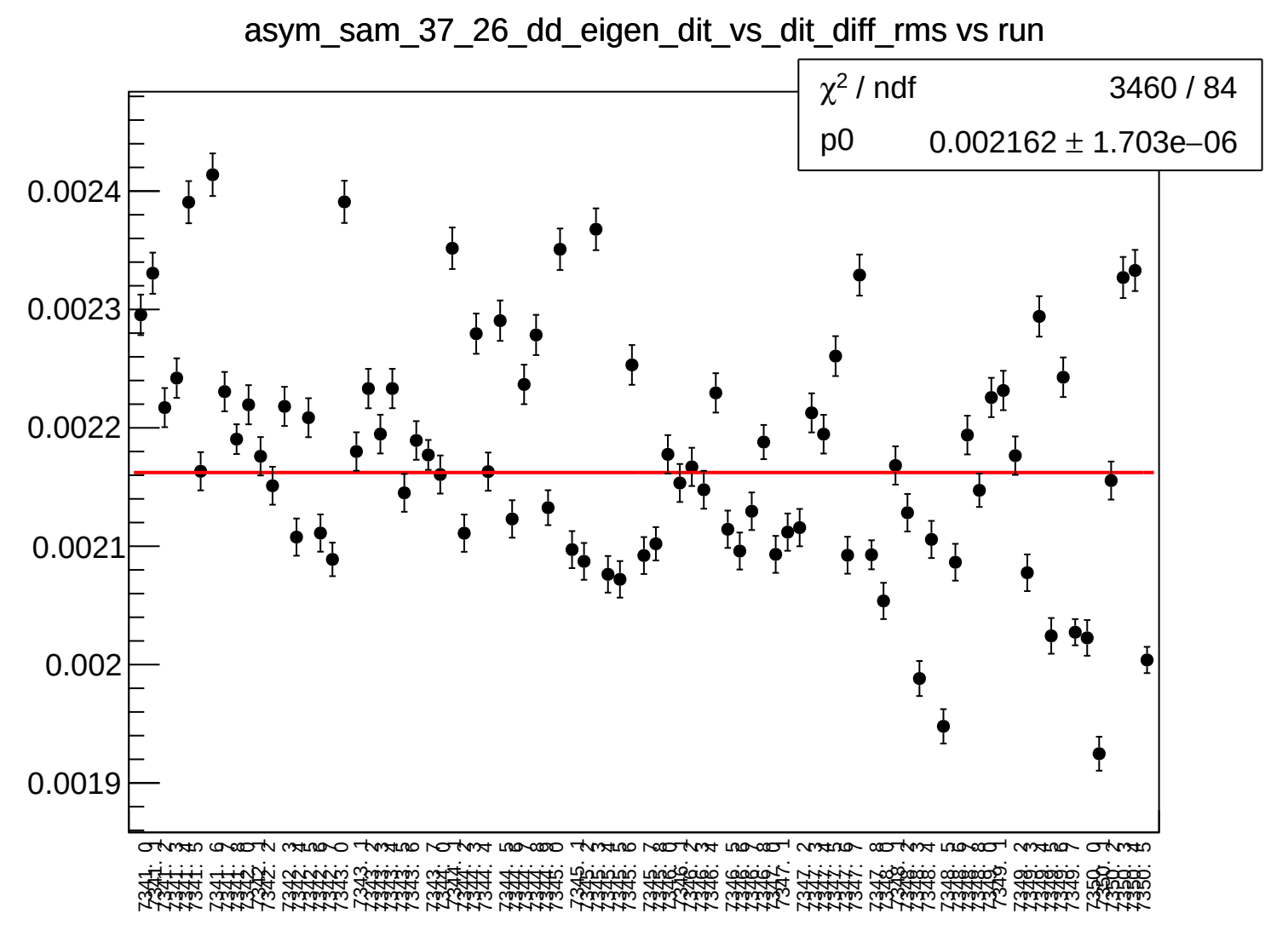

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.73 / 84
p0 −0.01939 ± 0.02451
pull
Entries 85
Mean −227.3
Std Dev 0

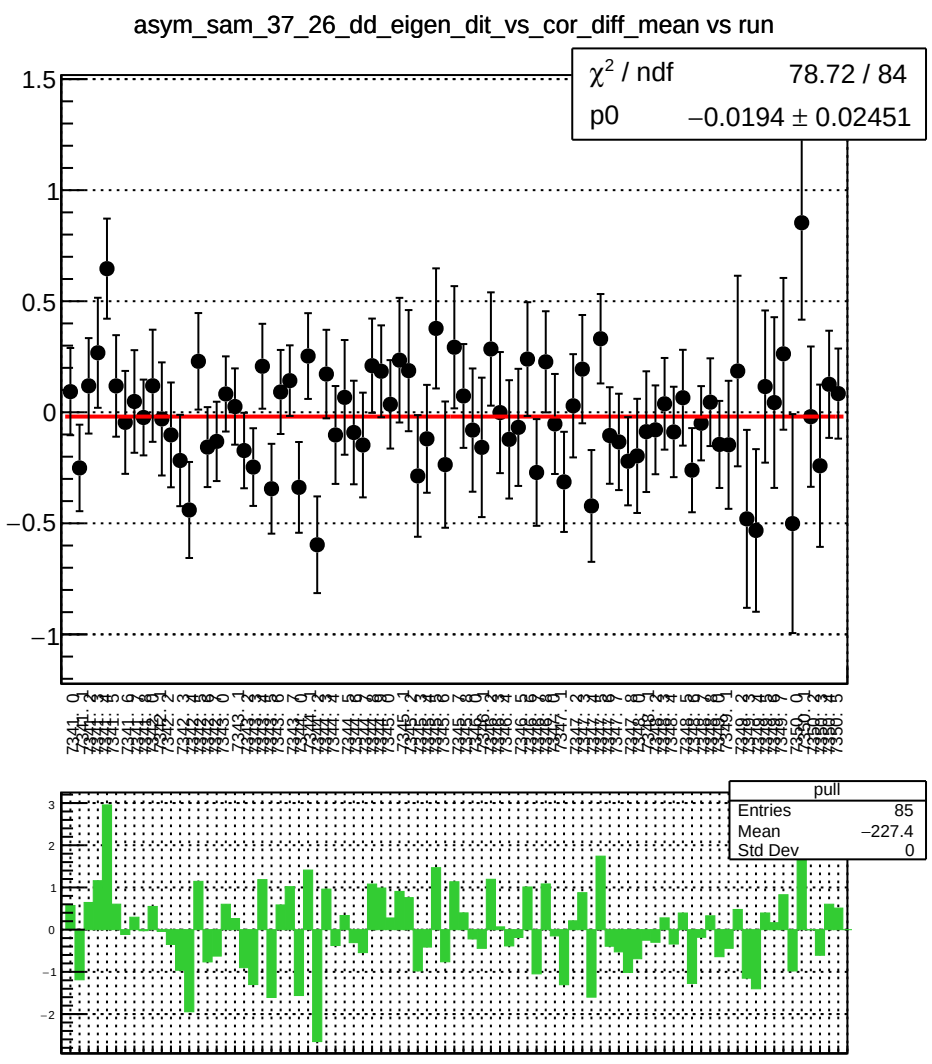

pull1D
Entries 85
Mean 0.006198
Std Dev 0.9624

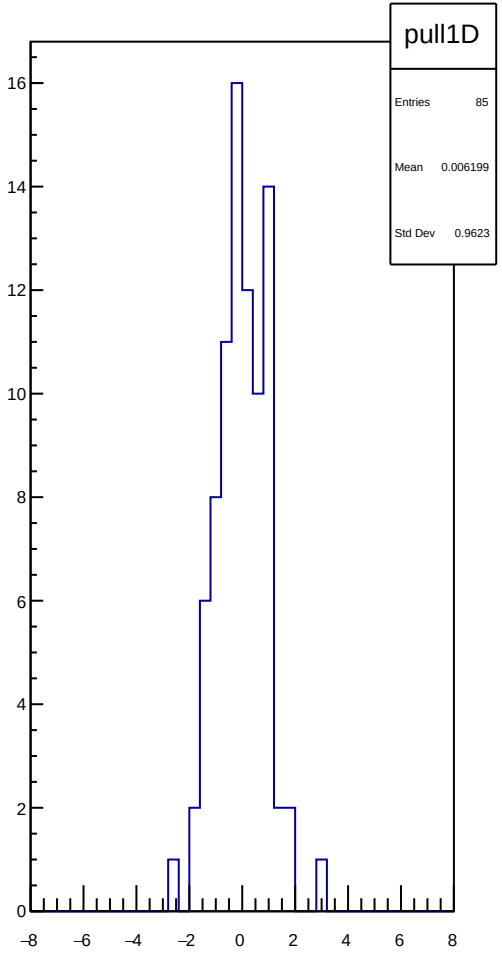

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.799e+04 / 84
p0 21.57 ± 0.01733
50
45
40
35
30
25
20
15

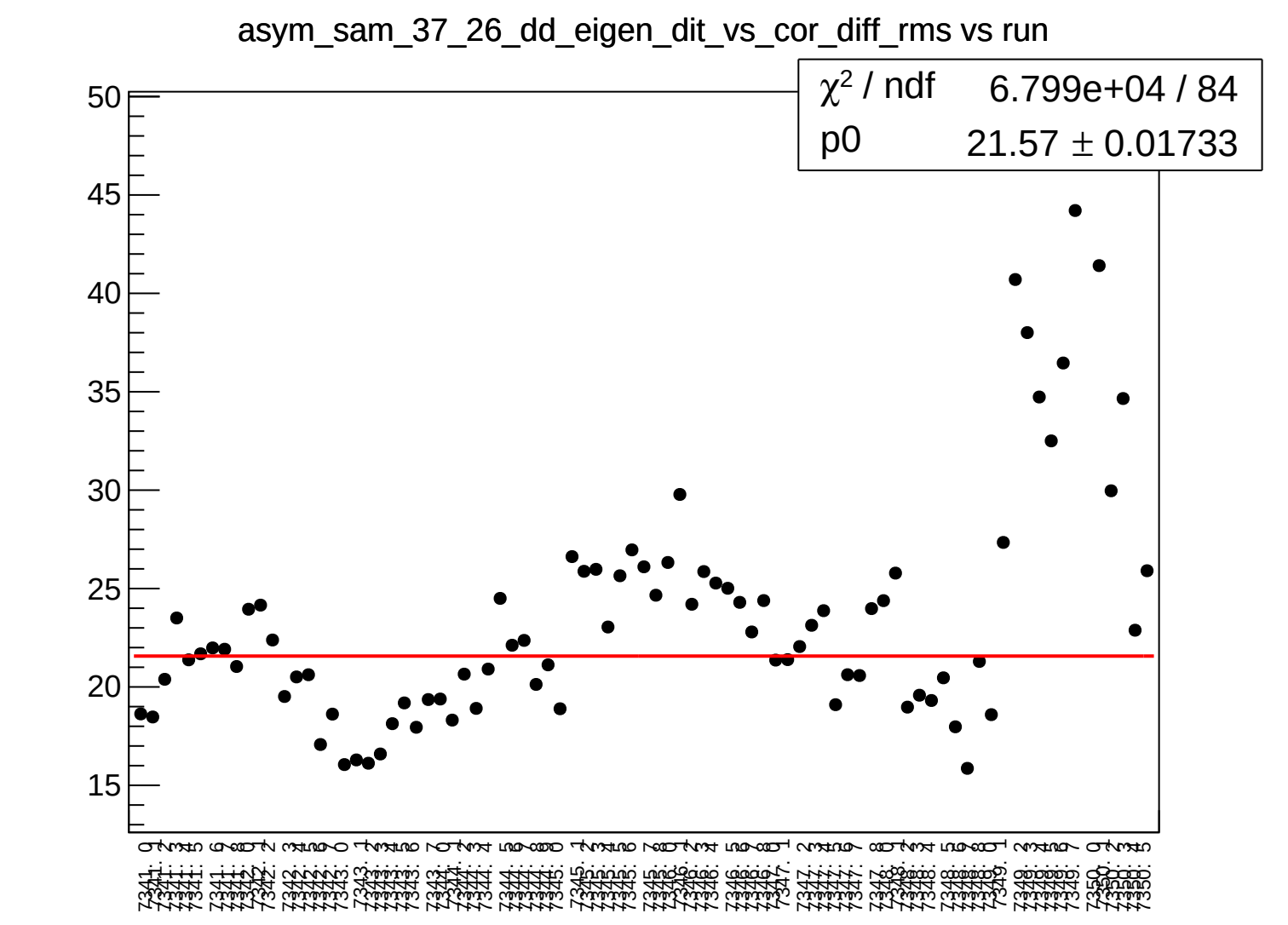

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.39 / 84
p0 −3.283e−06 ± 2.408e−06
pull
Entries 85
Mean 51.26
Std Dev 20.69

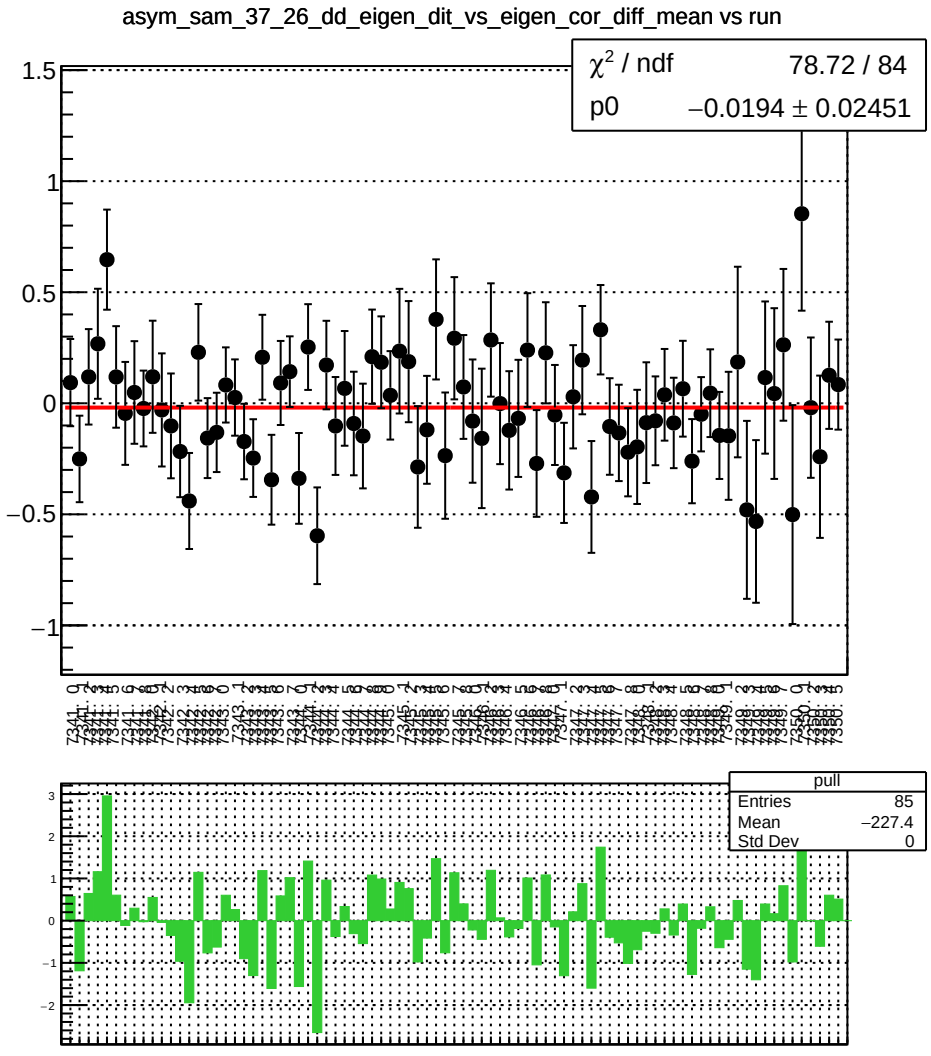

pull1D
Entries 85
Mean 0.01234
Std Dev 0.9541

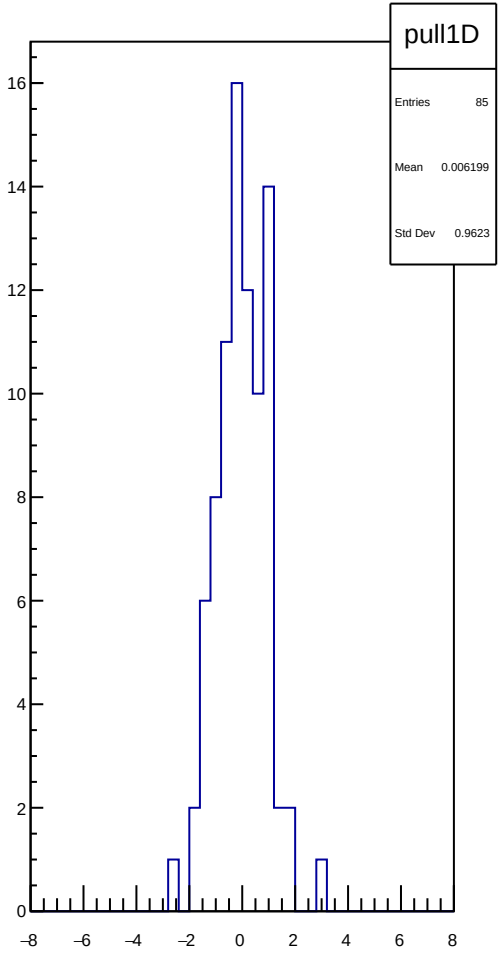

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3460 / 84
p0 0.002162 ± 1.703e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

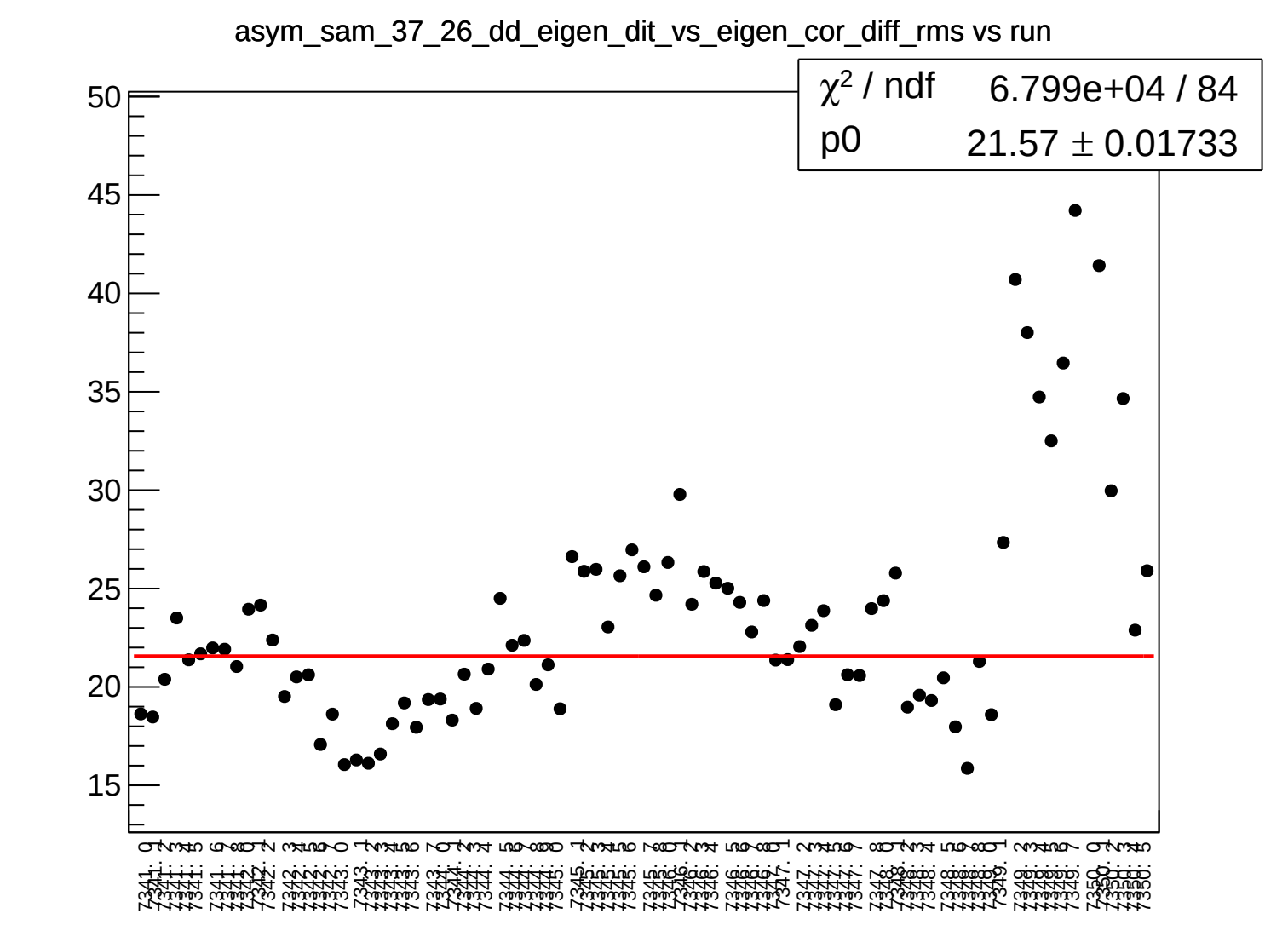

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.72 / 84
p0 −0.0194 ± 0.02451
pull
Entries 85
Mean −227.4
Std Dev 0

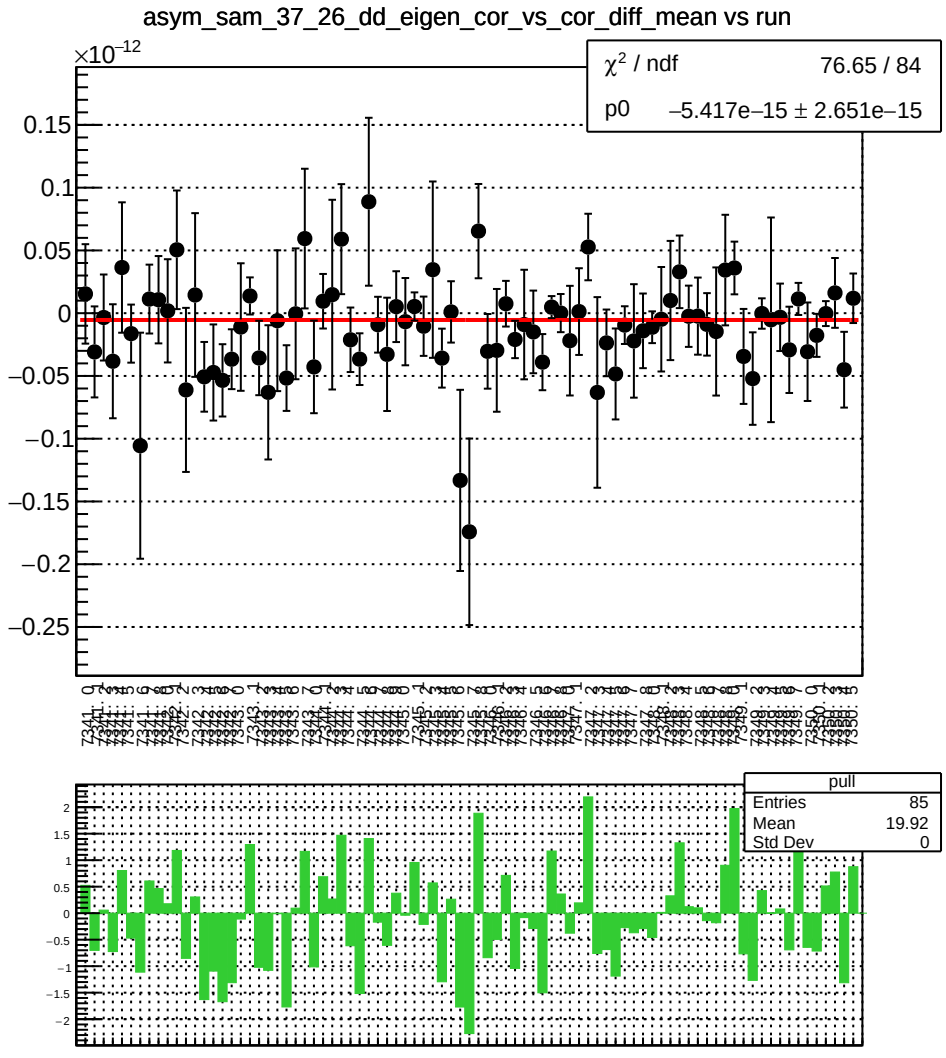

pull1D
Entries 85
Mean 0.006199
Std Dev 0.9623

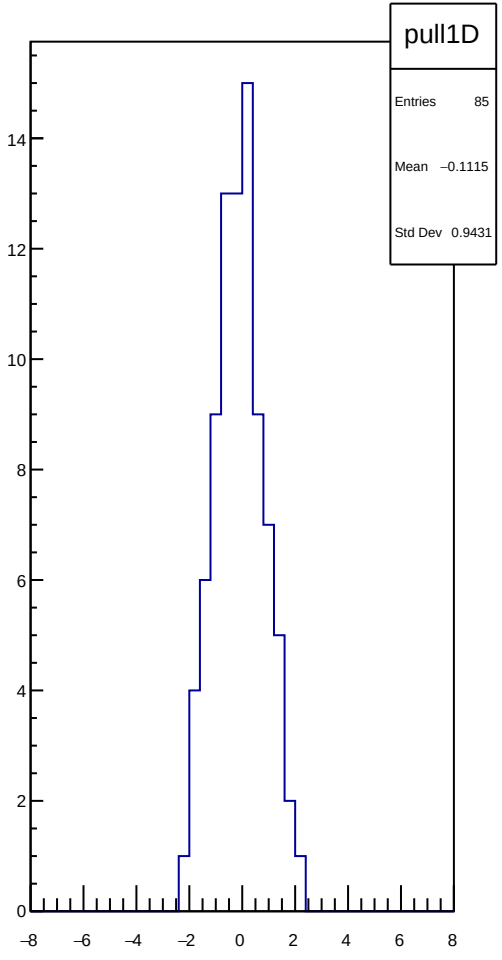

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.799e+04 / 84
p0 21.57 ± 0.01733
50
45
40
35
30
25
20
15

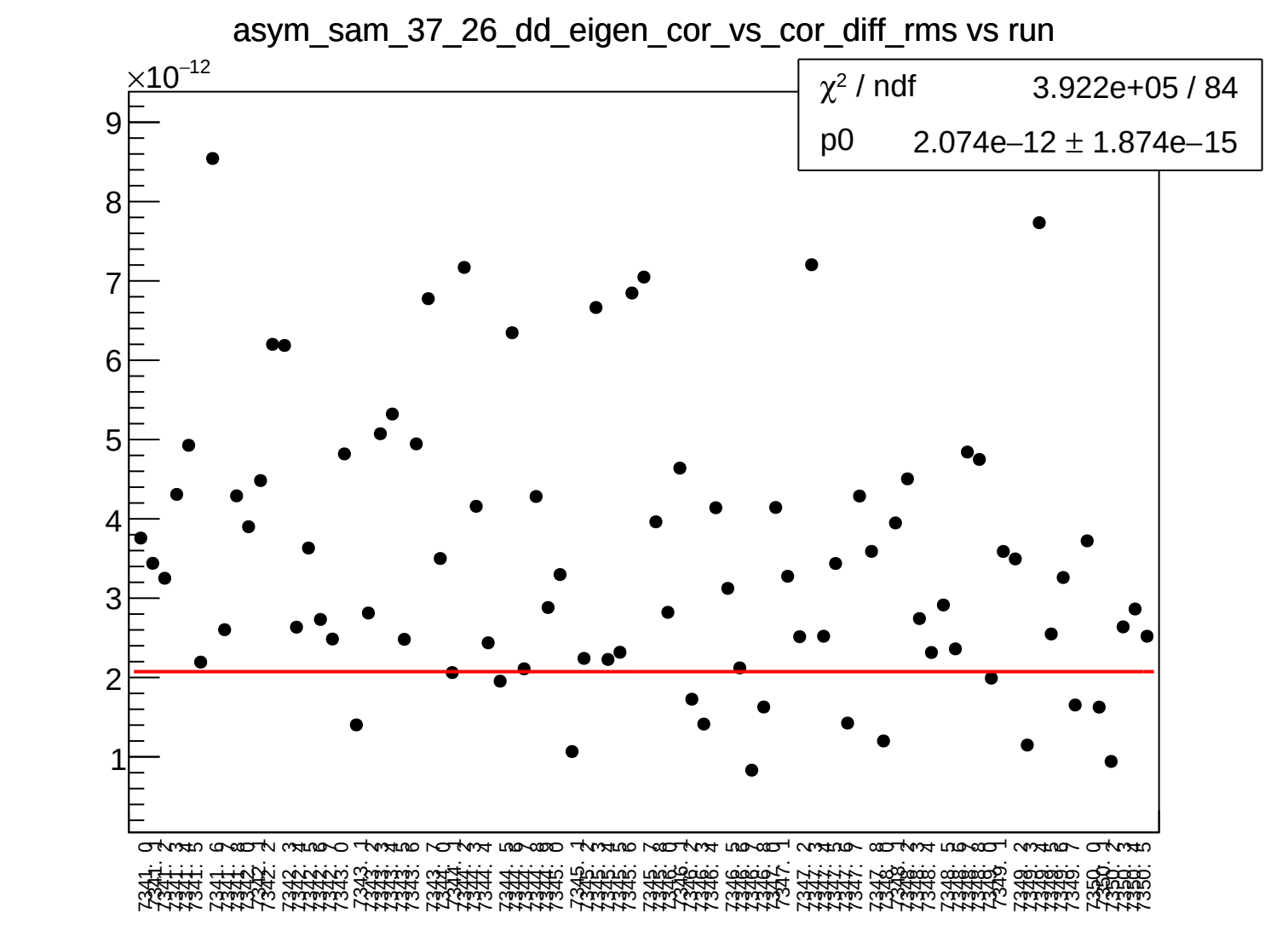

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.72 / 84
p0 −0.0194 ± 0.02451
pull
Entries 85
Mean −227.4
Std Dev 0

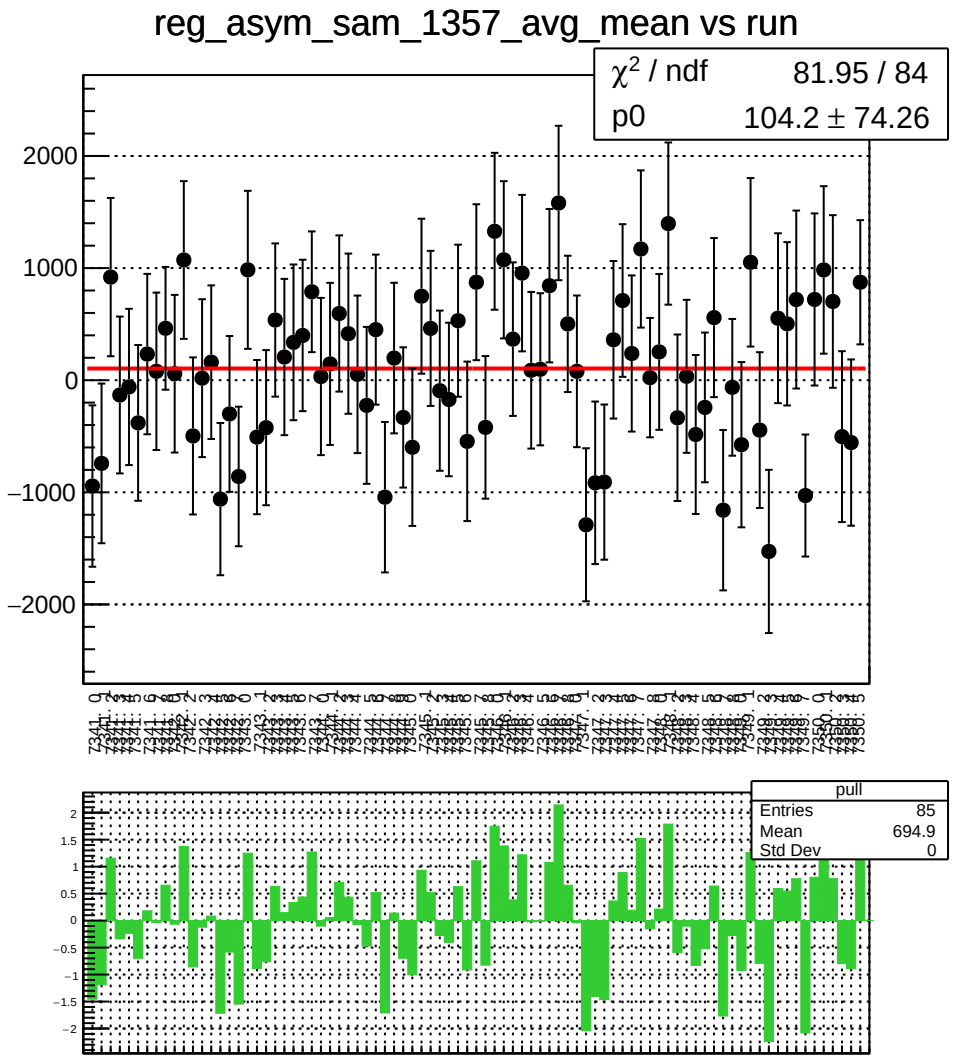

pull1D
Entries 85
Mean 0.006199
Std Dev 0.9623

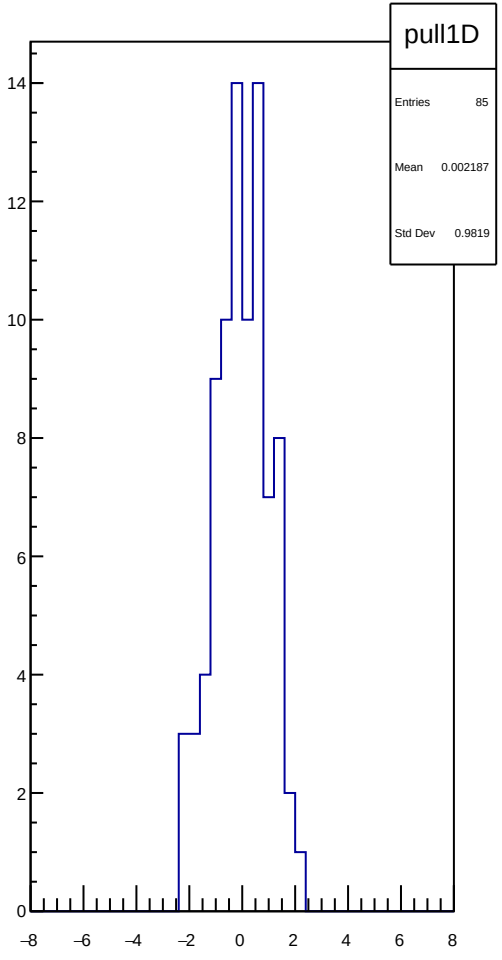

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.799e+04 / 84
p0 21.57 ± 0.01733
50
45
40
35
30
25
20
15

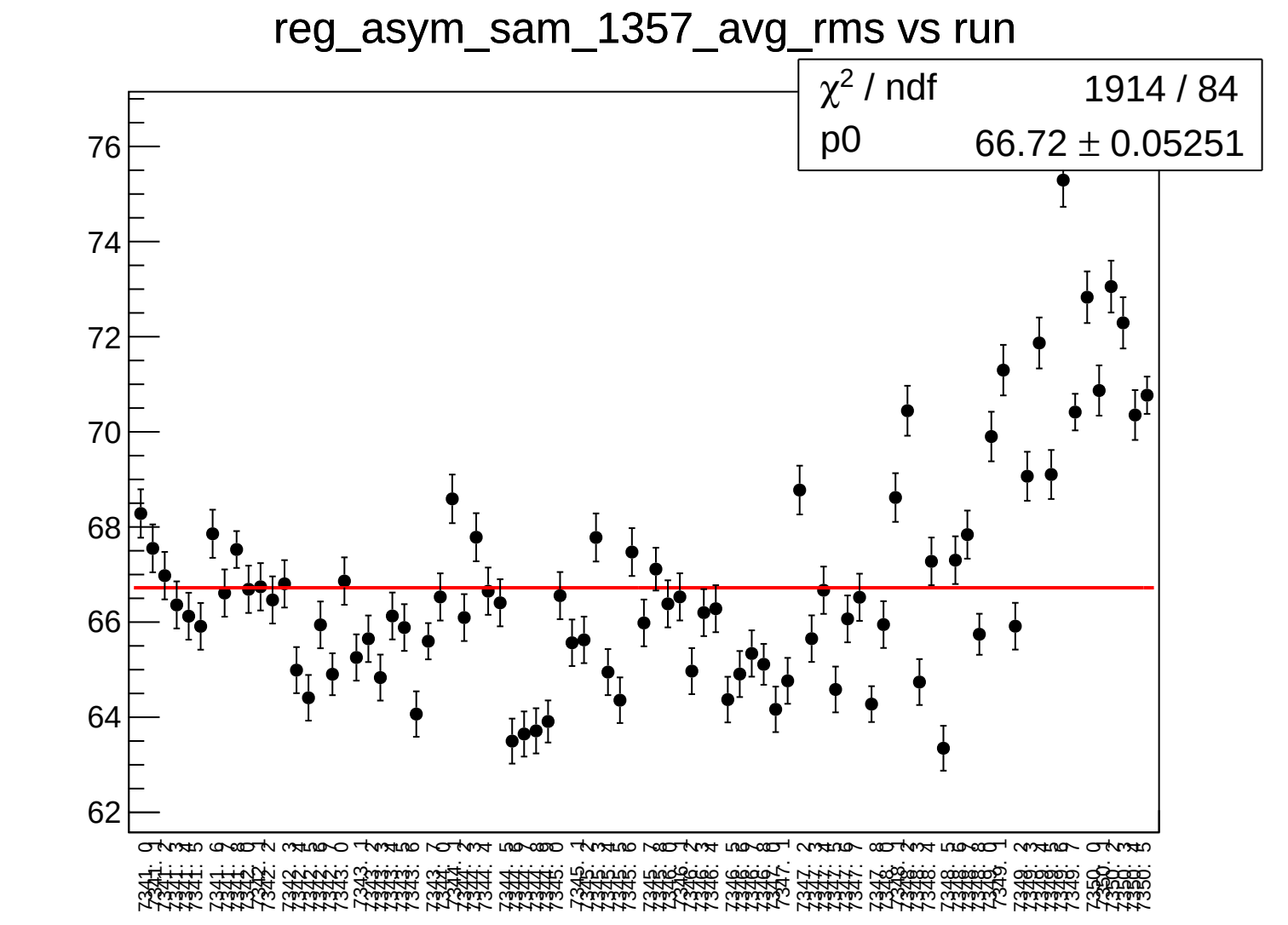

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.65 / 84
p0 −5.417e−15 ± 2.651e−15
pull
Entries 85
Mean 19.92
Std Dev 0

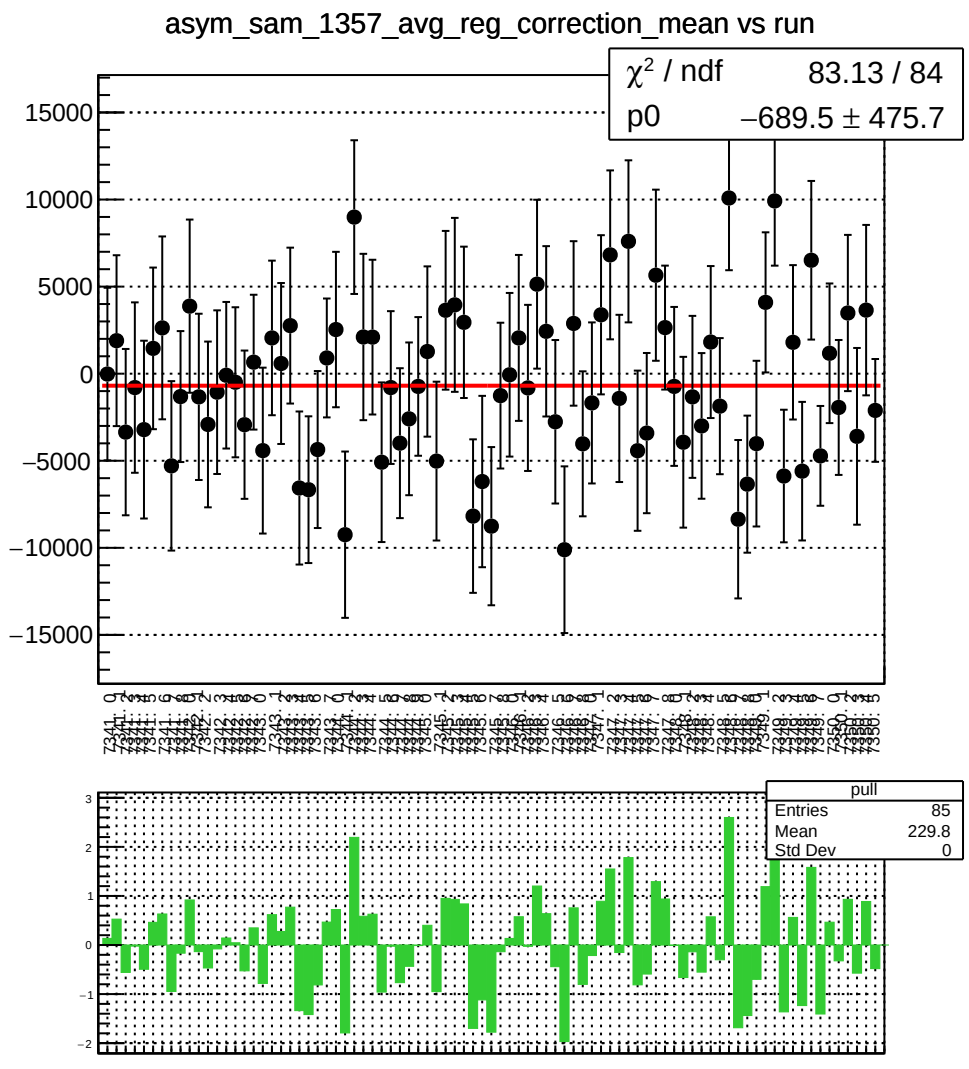

pull1D
Entries 85
Mean −0.1115
Std Dev 0.9431

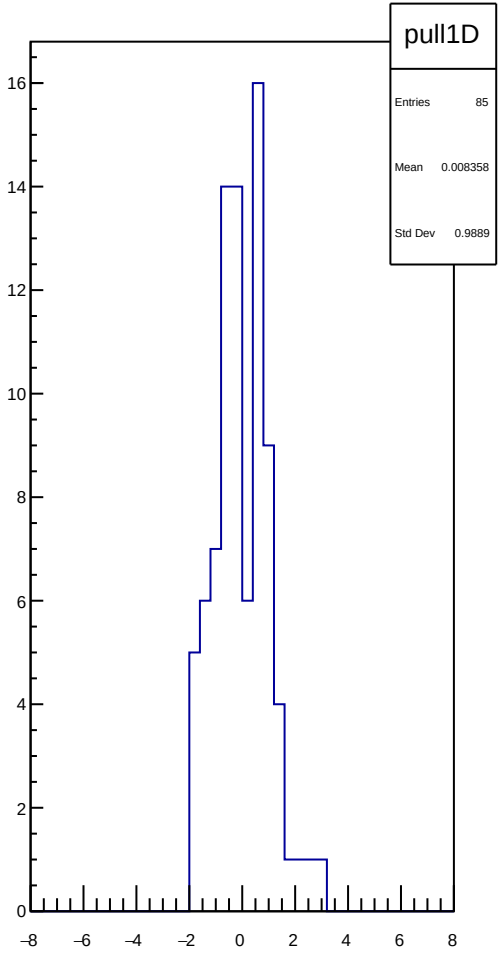

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.922e+05 / 84
p0 2.074e−12 ± 1.874e−15
9
8
7
6
5
4
3
2
1

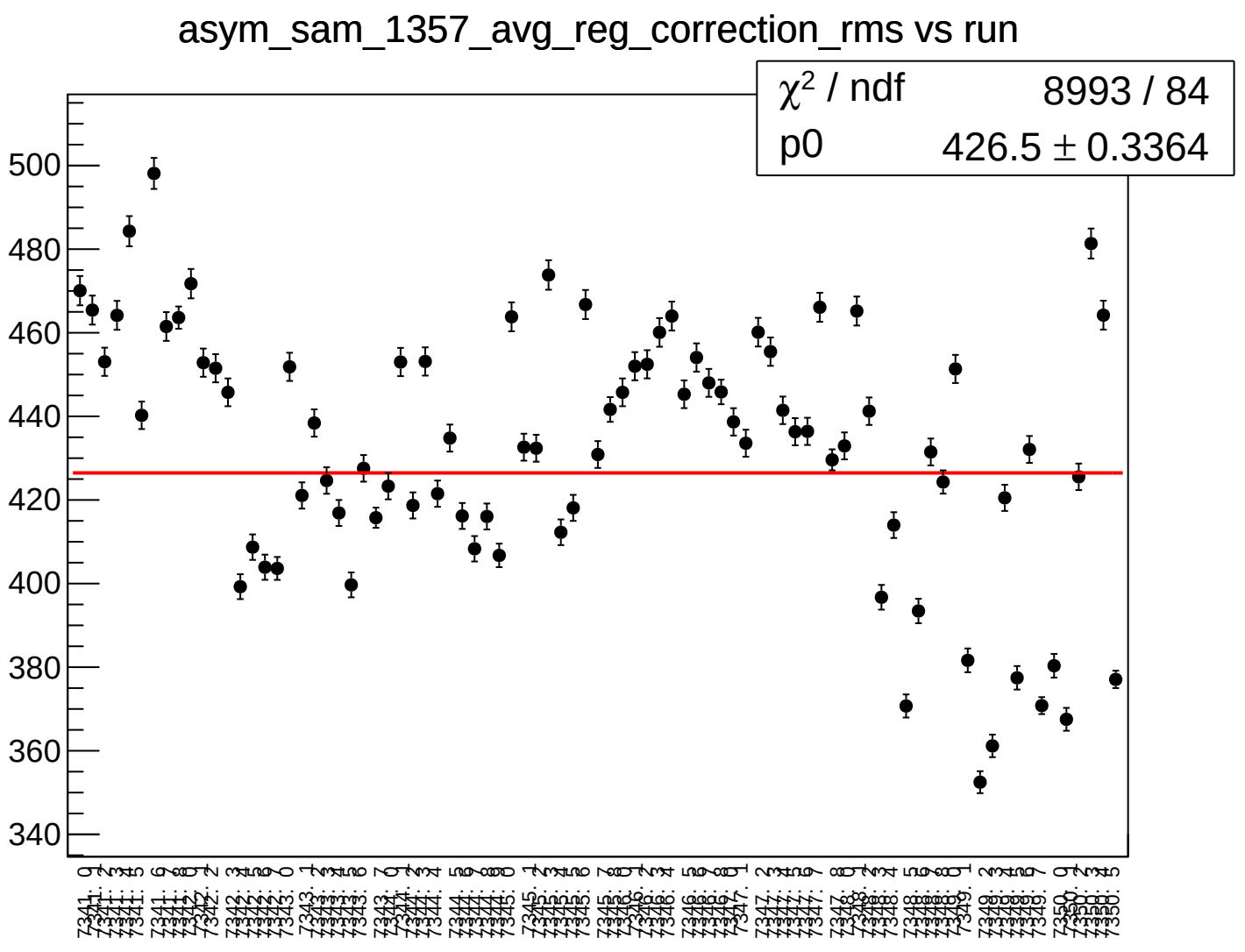

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 81.95 / 84
p0 104.2 ± 74.26
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 694.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

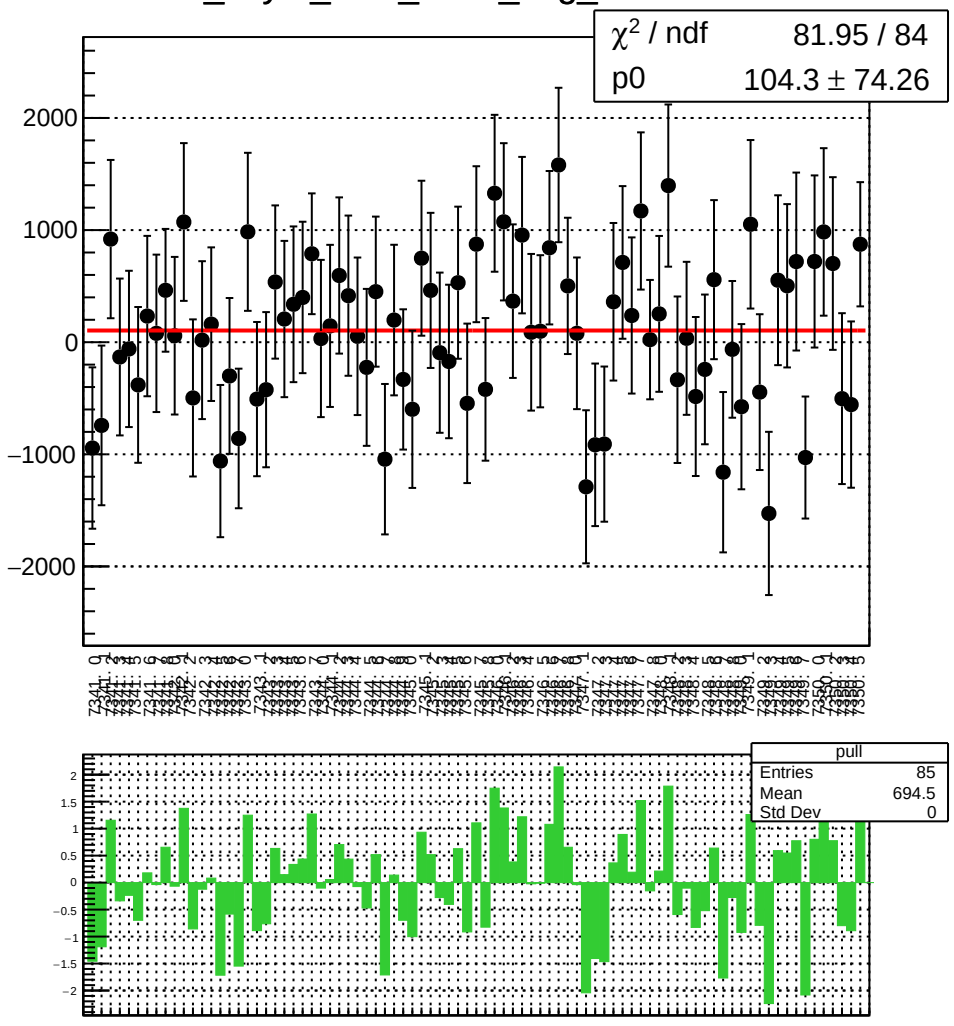

pull1D
Entries 85
Mean 0.002187
Std Dev 0.9819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

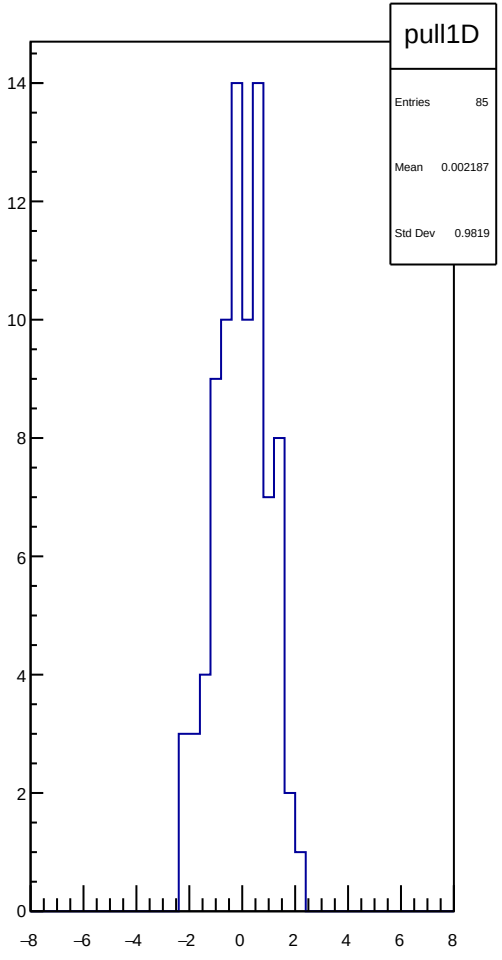

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1914 / 84
p0 66.72 ± 0.05251
76
74
72
70
68
66
64
62

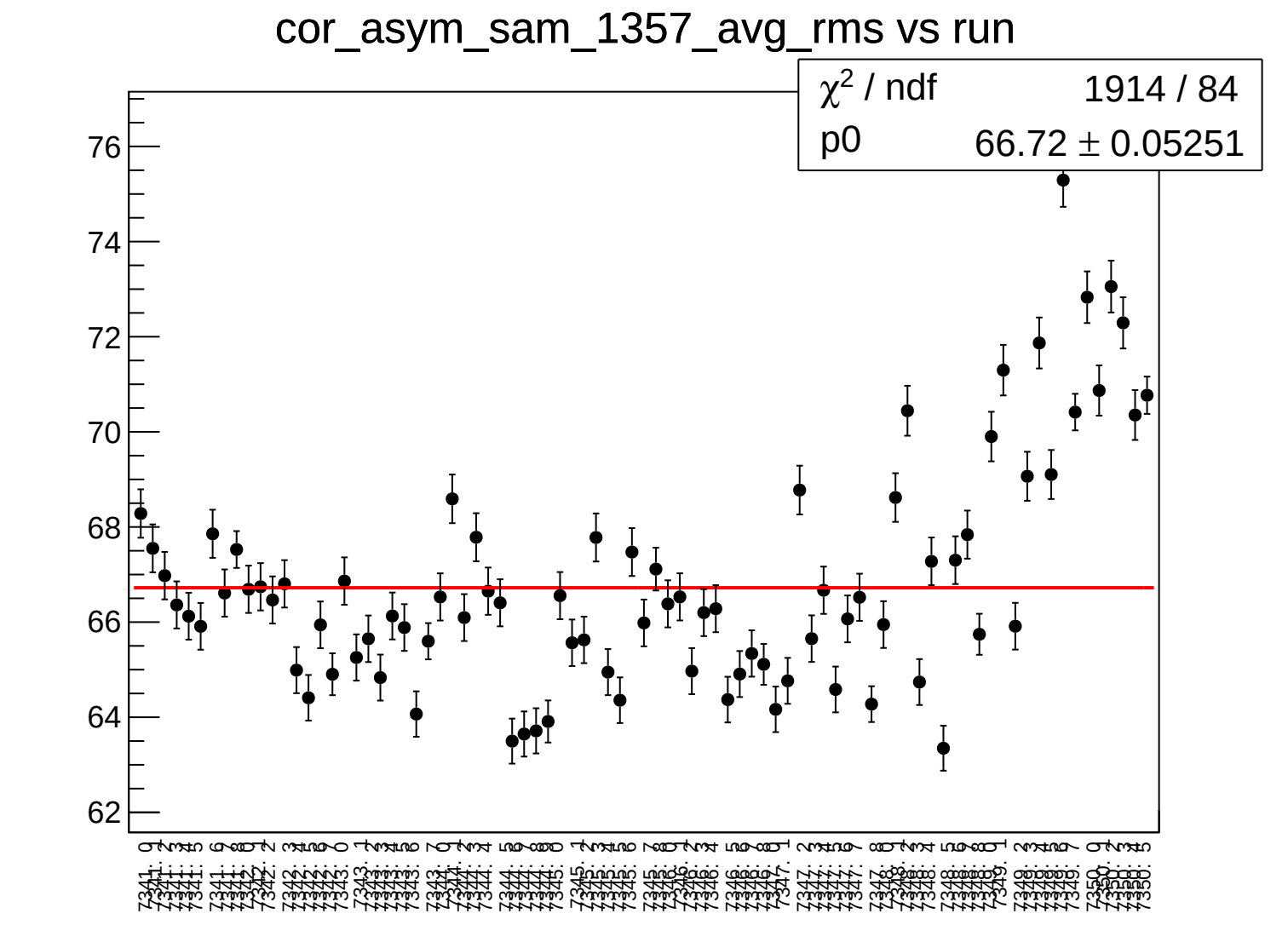

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 83.13 / 84
p0 −689.5 ± 475.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 229.8
Std Dev 0
3
2
1
0
−1
−2

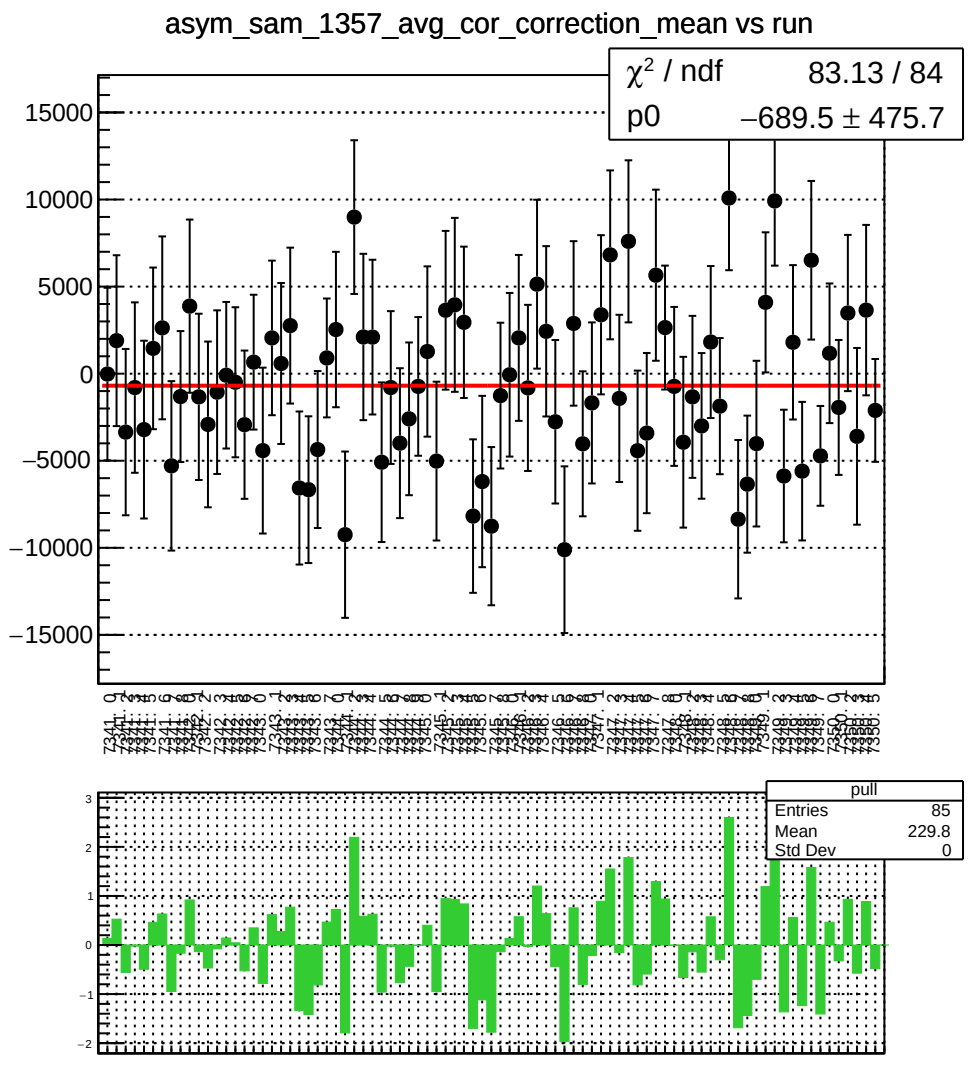

pull1D
Entries 85
Mean 0.008358
Std Dev 0.9889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

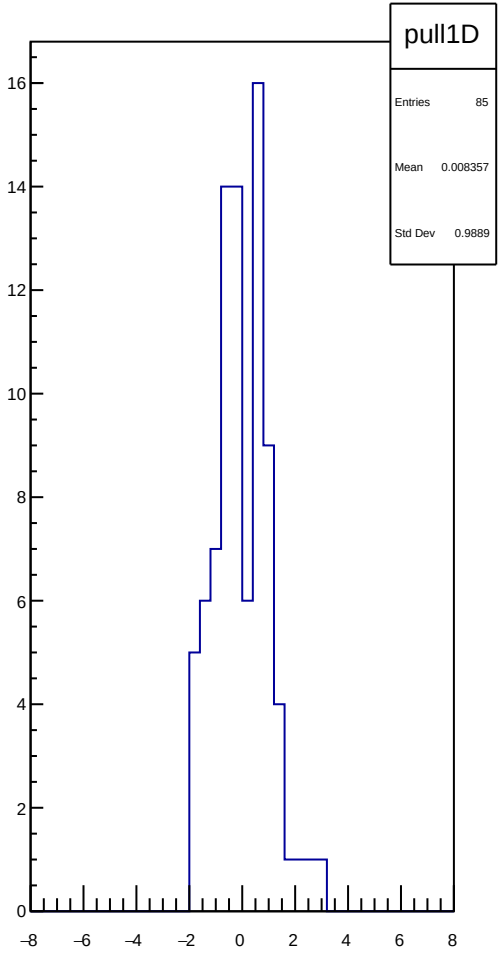

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 8993 / 84
p0 426.5 ± 0.3364
500
480
460
440
420
400
380
360
340

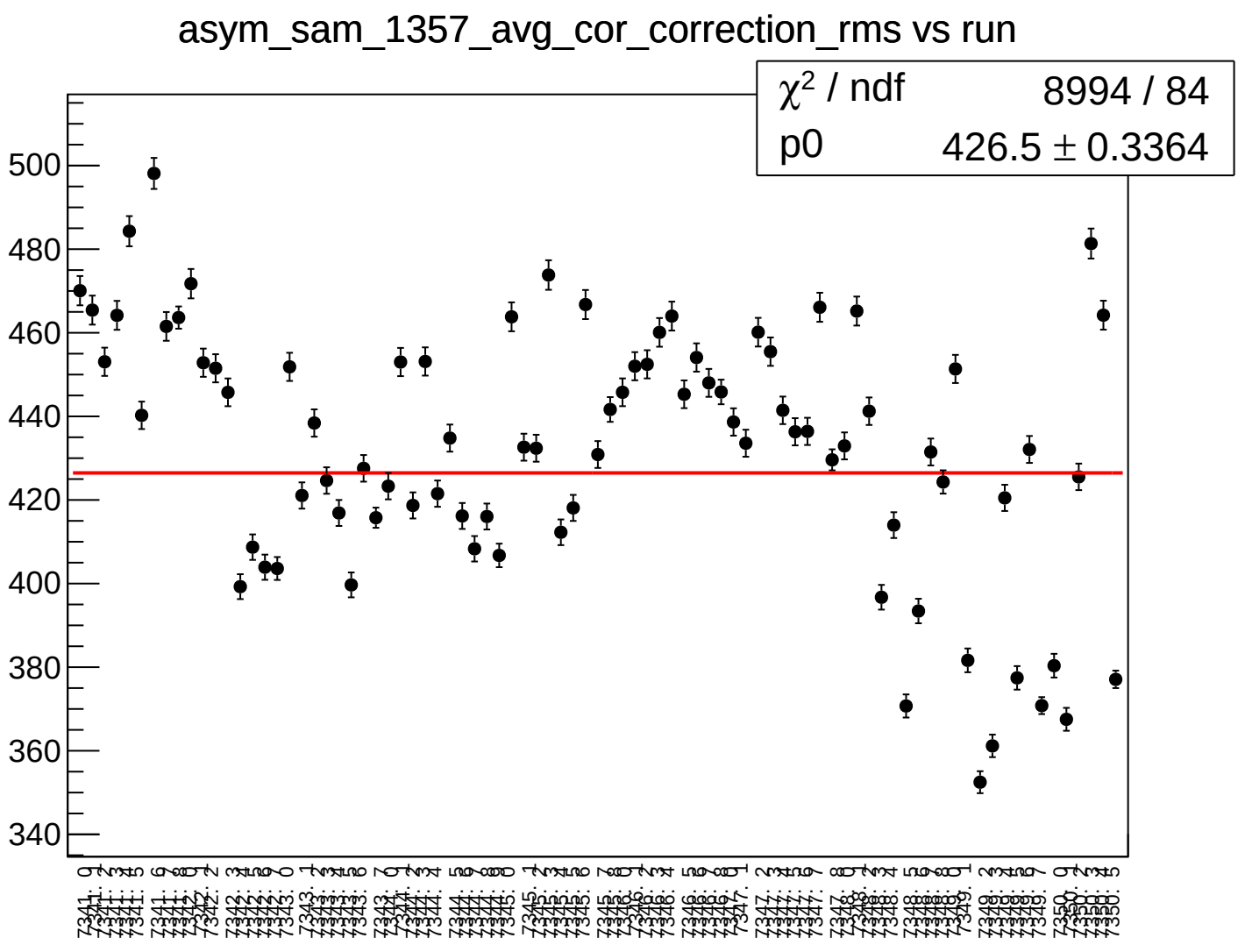

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 81.95 / 84
p0 104.3 ± 74.26
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 694.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

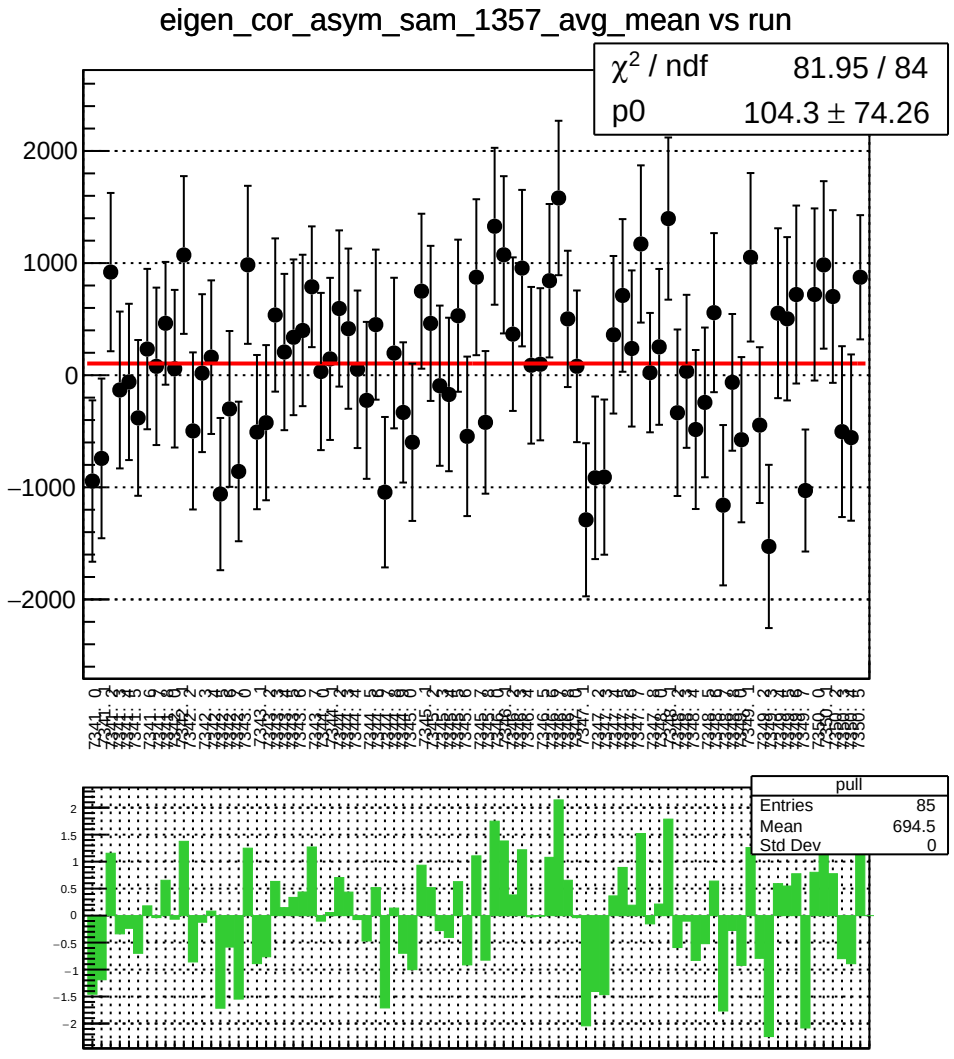

pull1D
Entries 85
Mean 0.002187
Std Dev 0.9819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

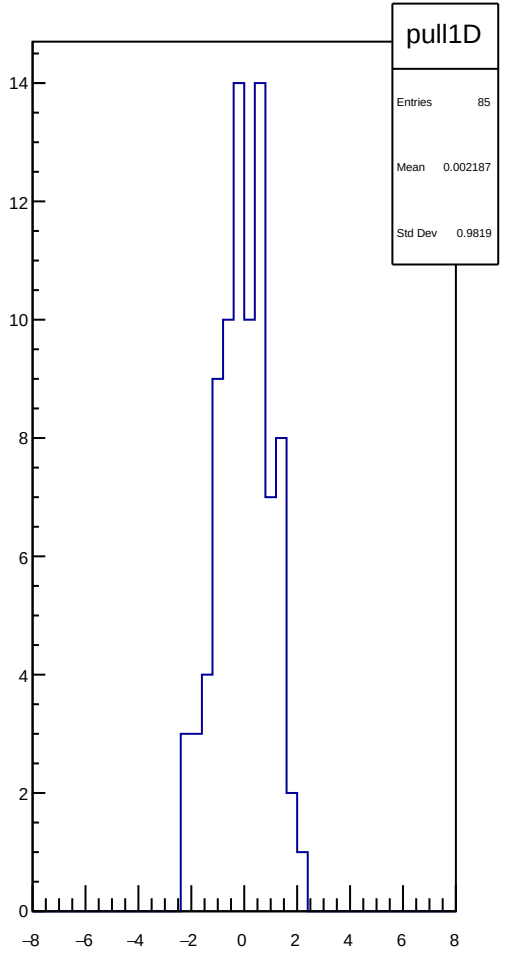

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1914 / 84
p0 66.72 ± 0.05251
76
74
72
70
68
66
64
62

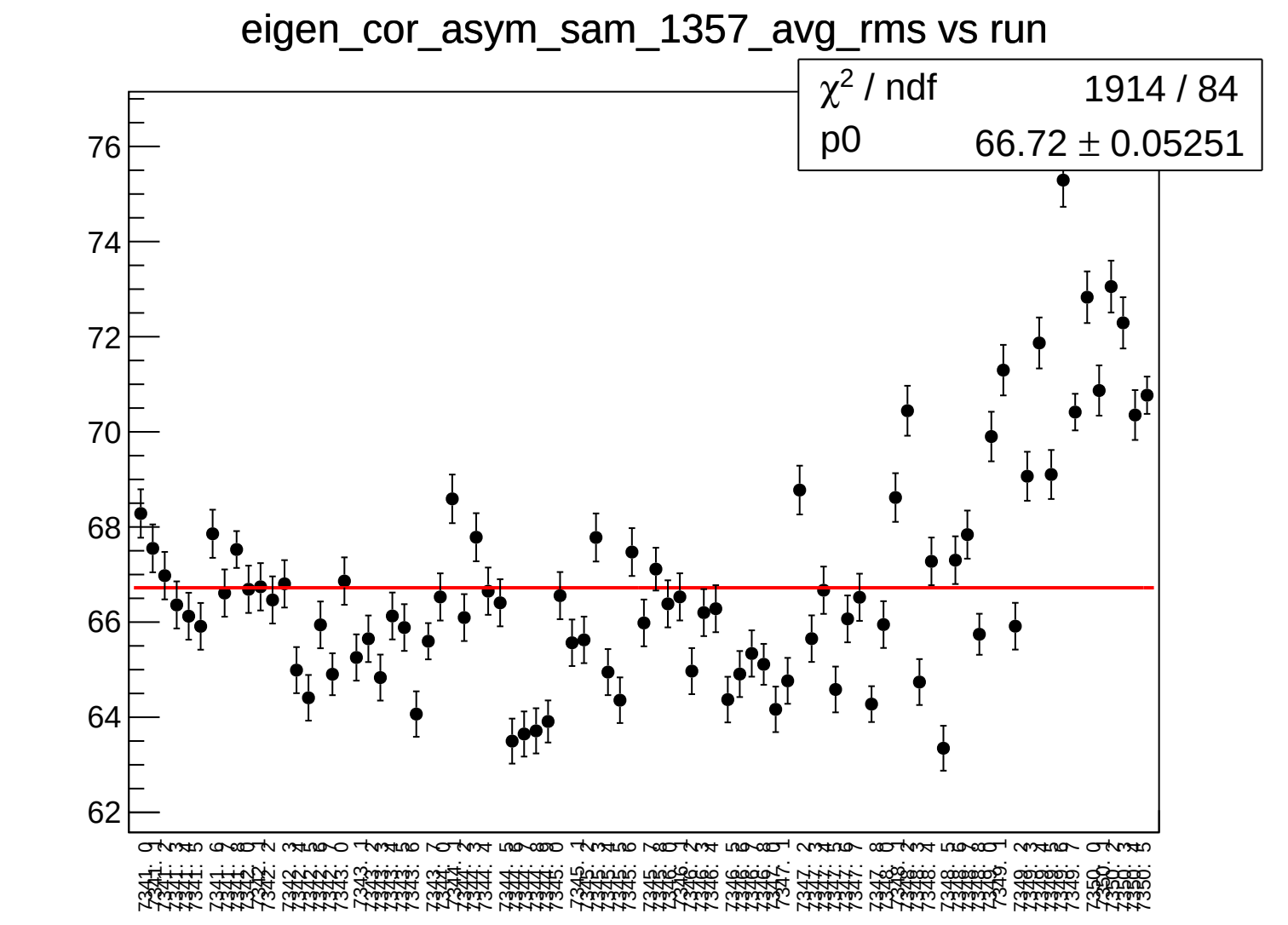

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 83.13 / 84
p0 −689.5 ± 475.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 229.8
Std Dev 0
3
2
1
0
−1
−2

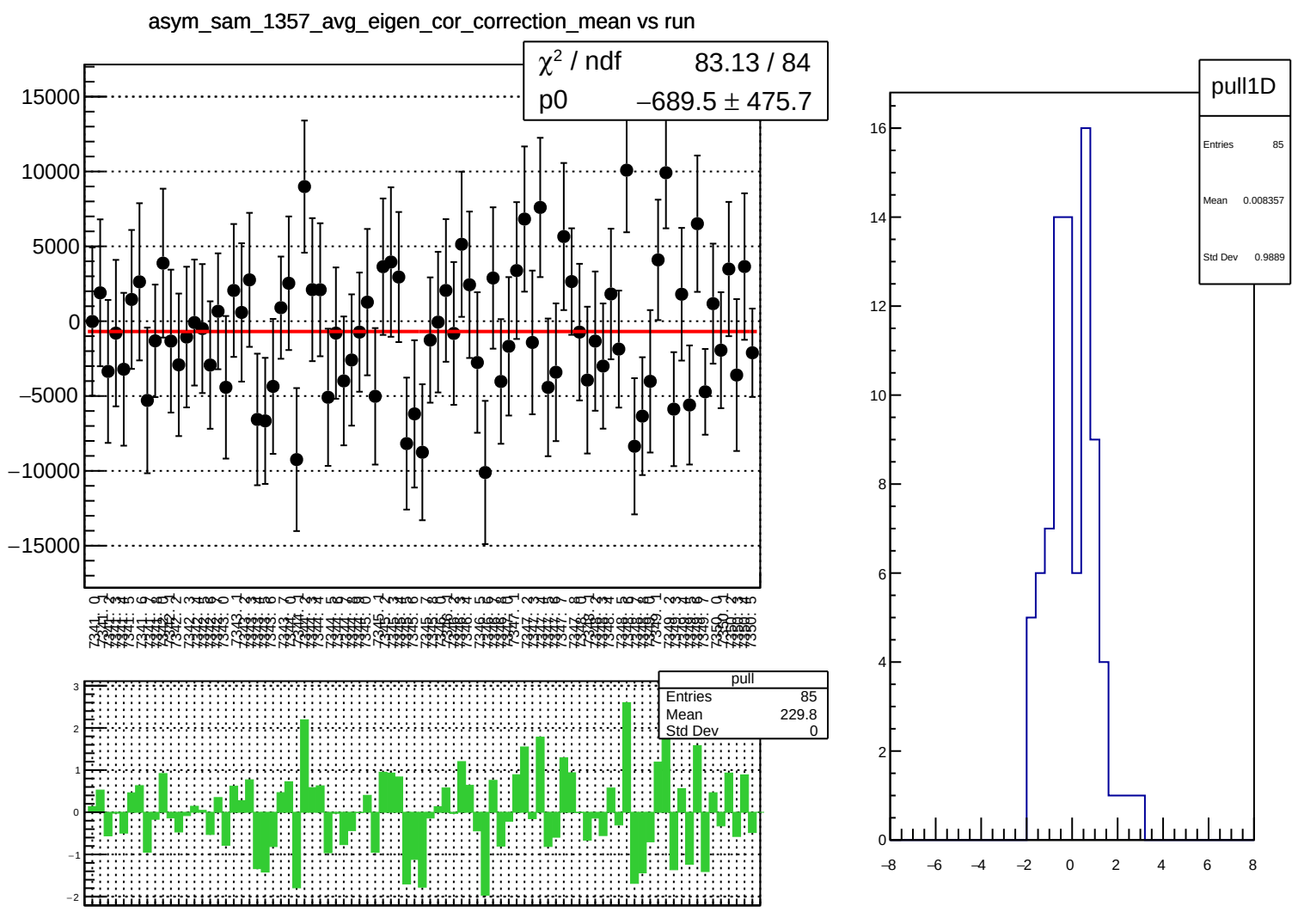

pull1D
Entries 85
Mean 0.008357
Std Dev 0.9889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

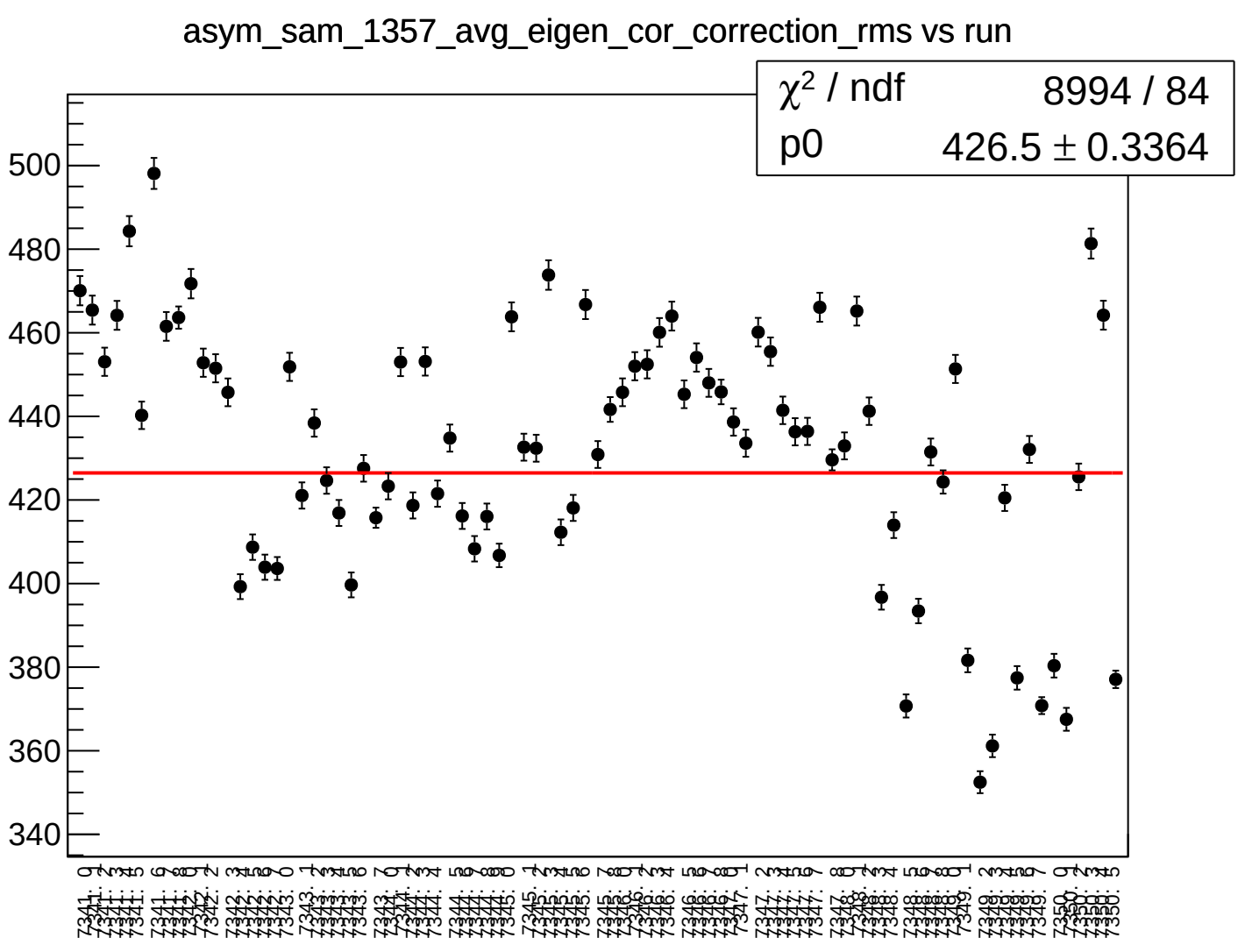

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 8994 / 84
p0 426.5 ± 0.3364
500
480
460
440
420
400
380
360
340

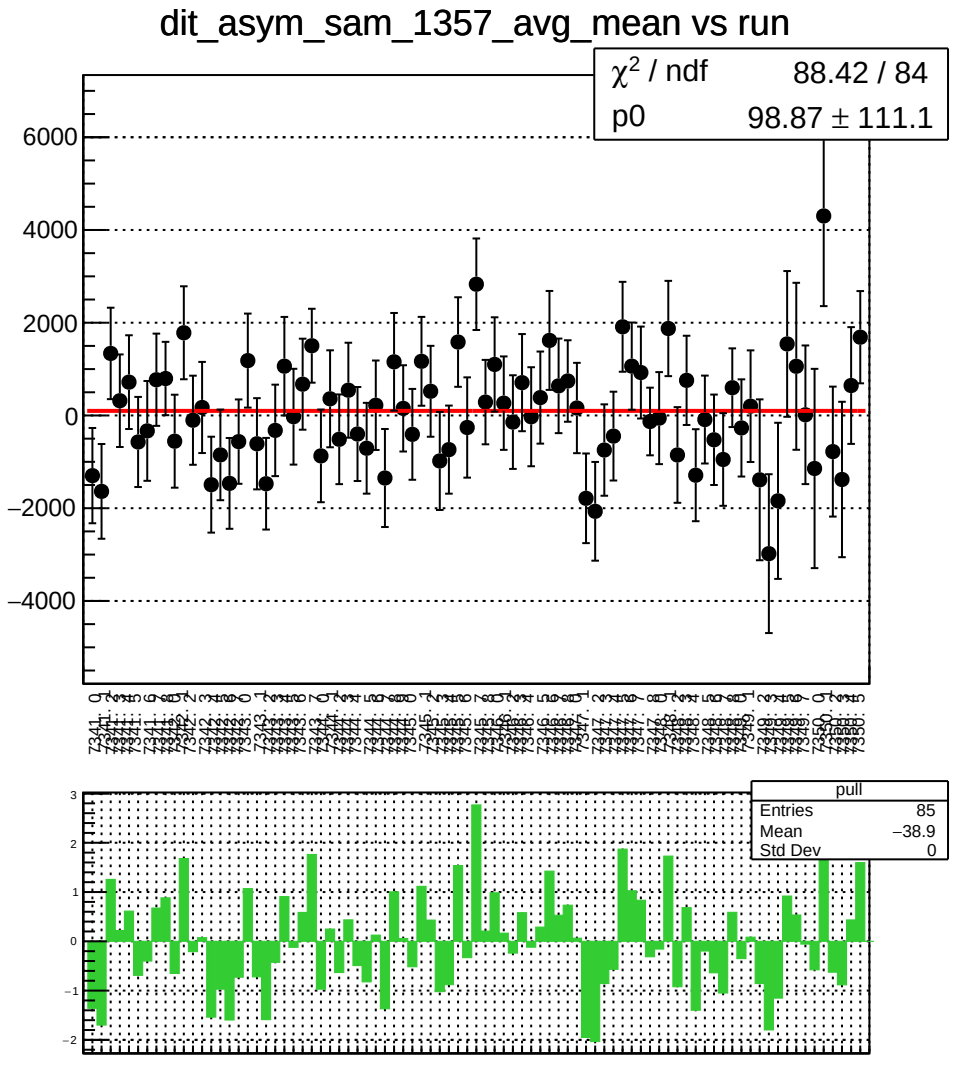

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 81.95 / 84
p0 104.3 ± 74.26
2000
1000
0
−1000
−2000
pull
Entries 85
Mean 694.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

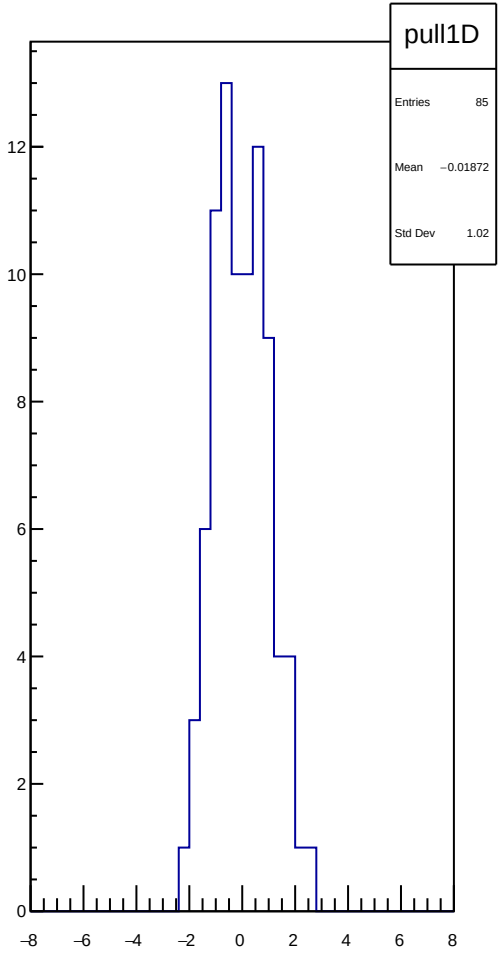

pull1D
Entries 85
Mean 0.002187
Std Dev 0.9819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

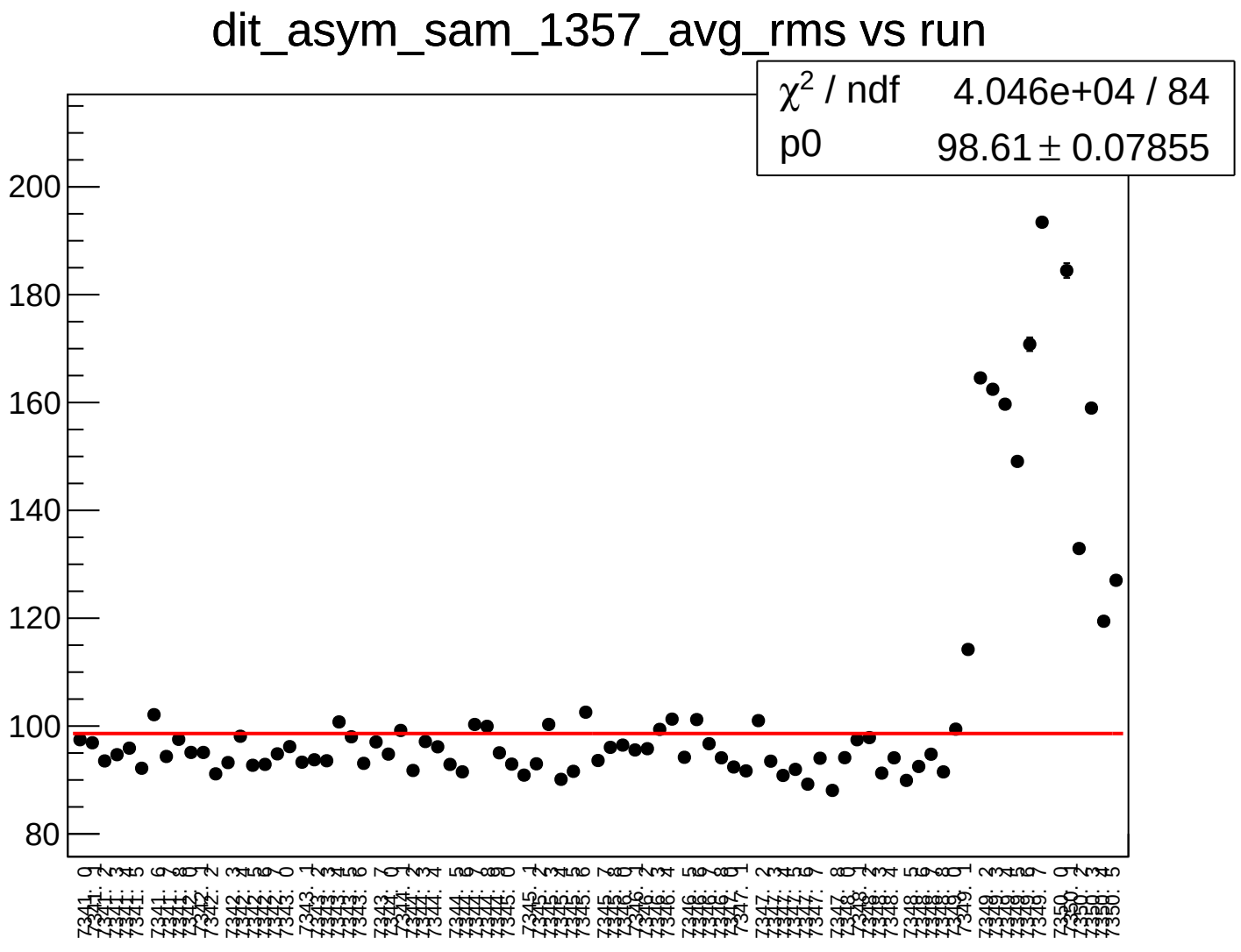

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1914 / 84
p0 66.72 ± 0.05251
76
74
72
70
68
66
64
62

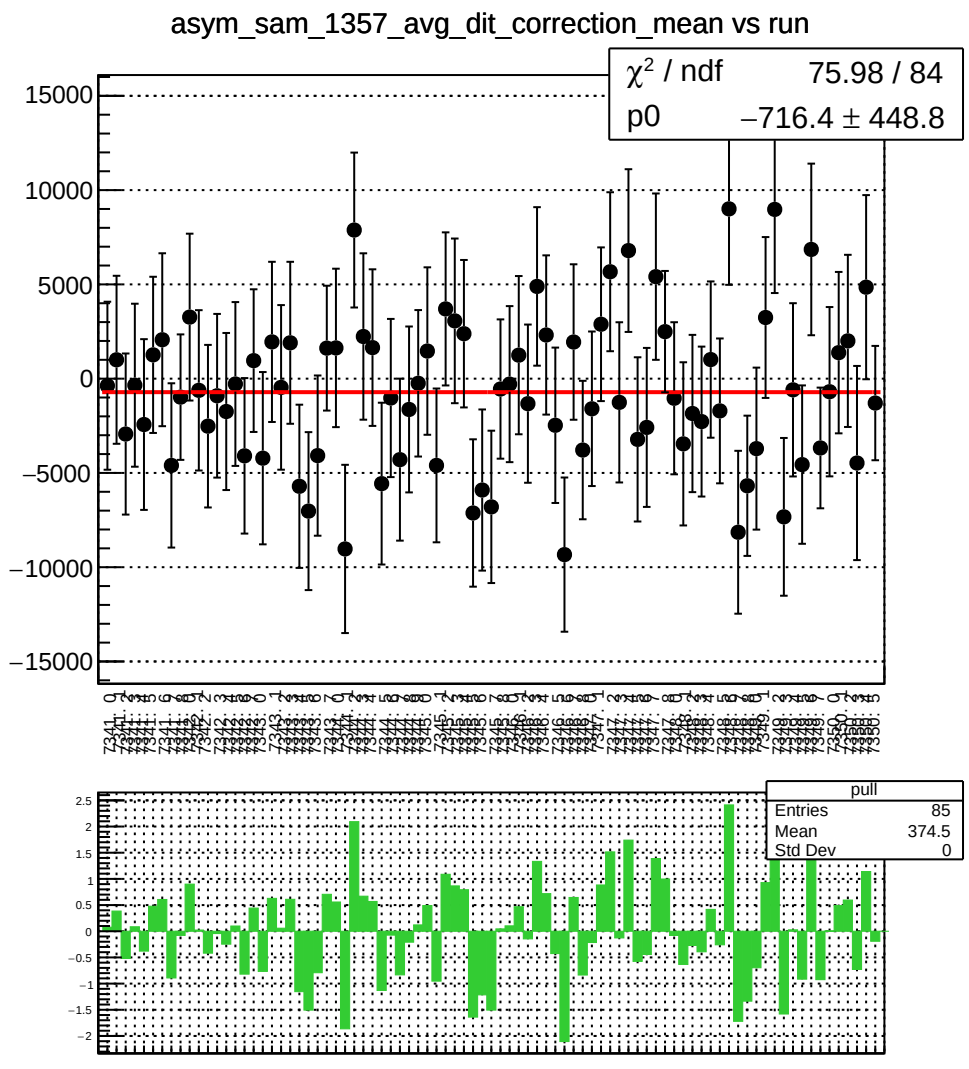

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.13 / 84
p0 −689.5 ± 475.7
pull
Entries 85
Mean 229.8
Std Dev 0
pull1D
Entries 85
Mean 0.008357
Std Dev 0.9889

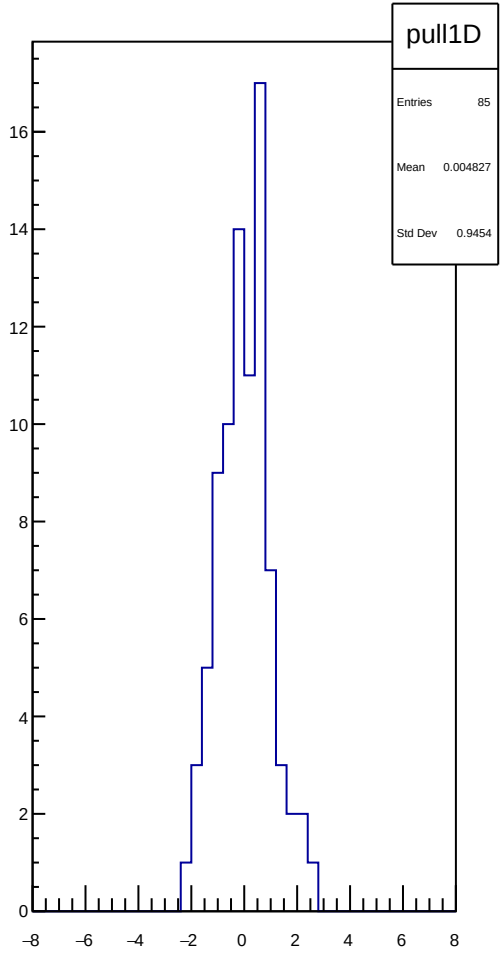

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 8994 / 84
p0 426.5 ± 0.3364
500
480
460
440
420
400
380
360
340

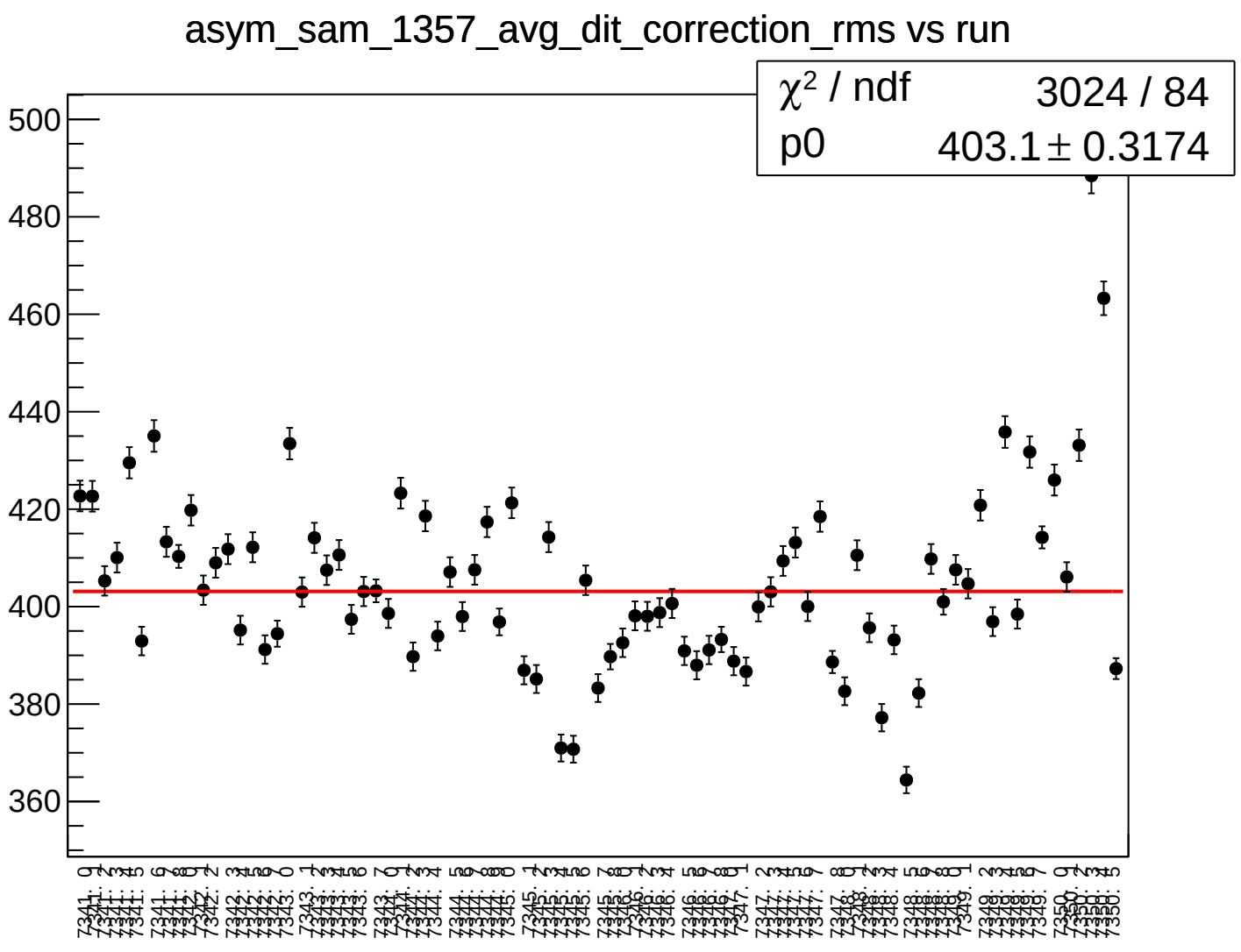

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 88.42 / 84
p0 98.87 ± 111.1
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −38.9
Std Dev 0
3
2
1
0
−1
−2

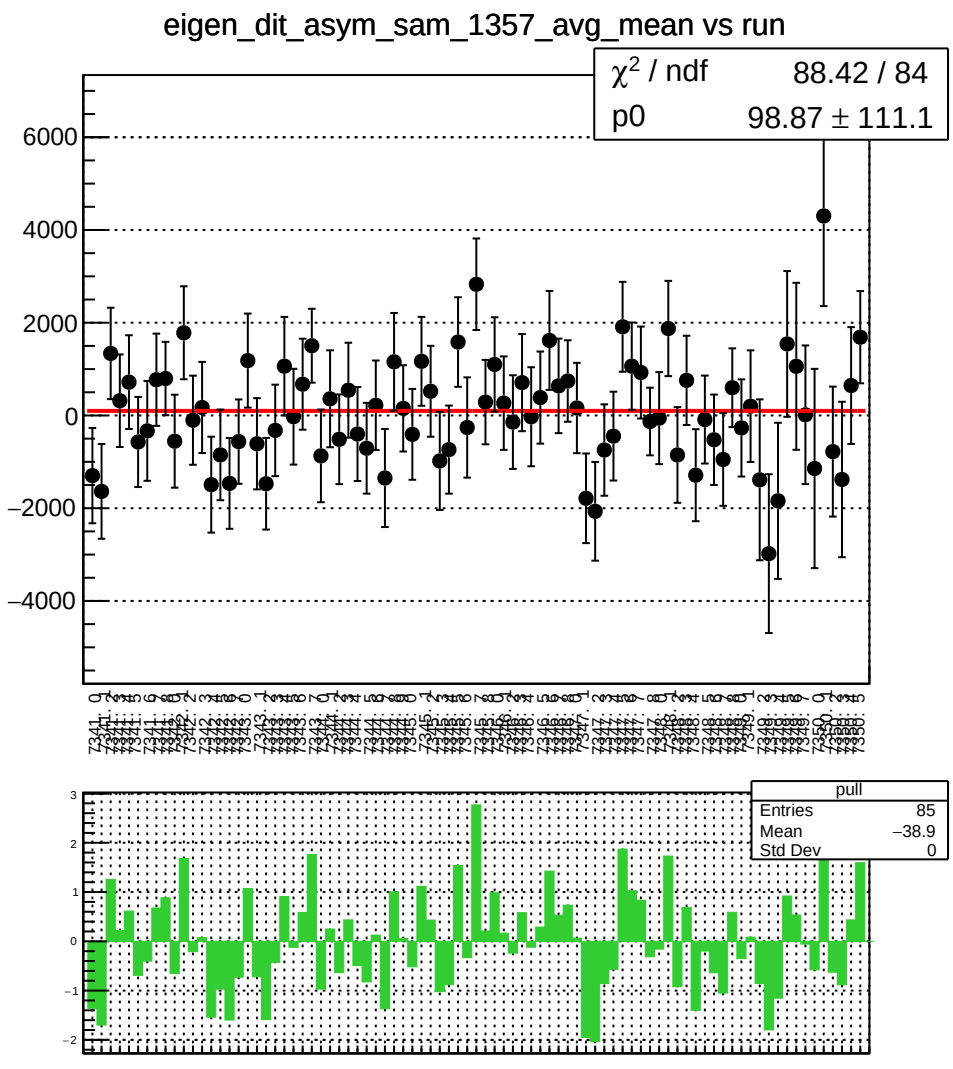

pull1D
Entries 85
Mean −0.01872
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

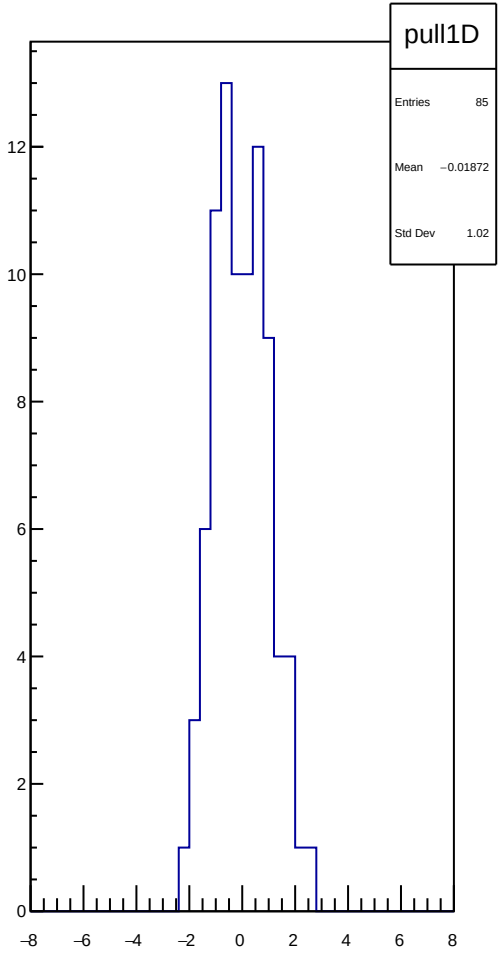

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 4.046e+04 / 84
p0 98.61 ± 0.07855
200
180
160
140
120
100
80

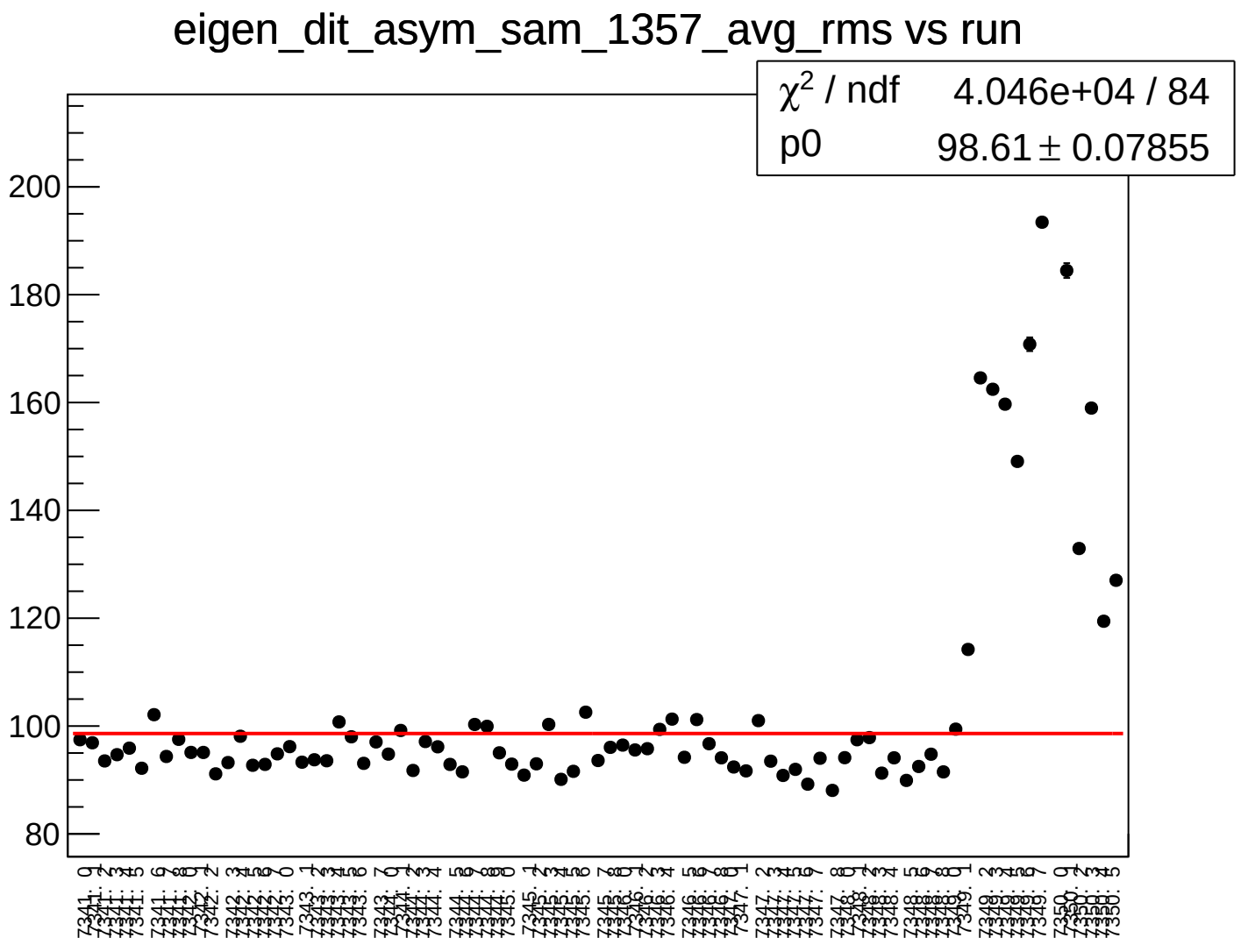

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 75.98 / 84
p0 −716.4 ± 448.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 374.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

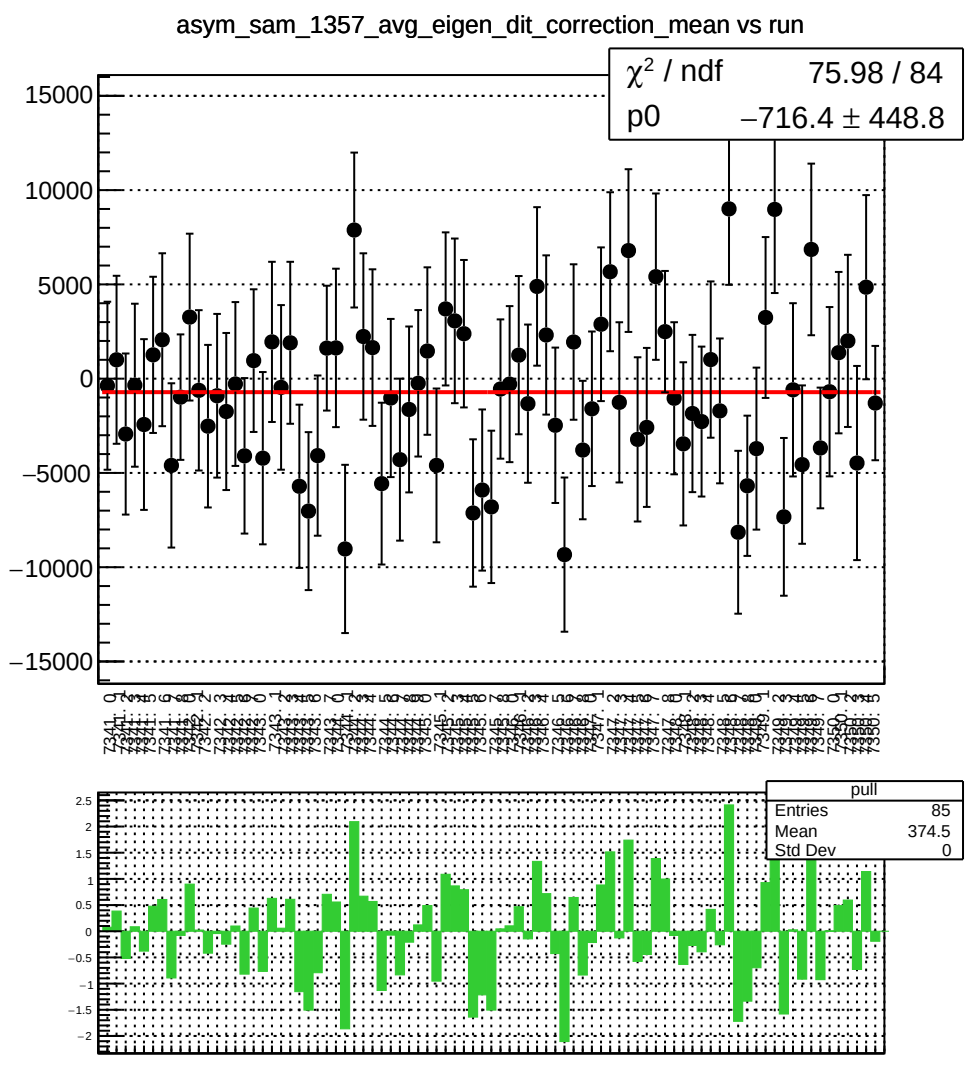

pull1D
Entries 85
Mean 0.004827
Std Dev 0.9454
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

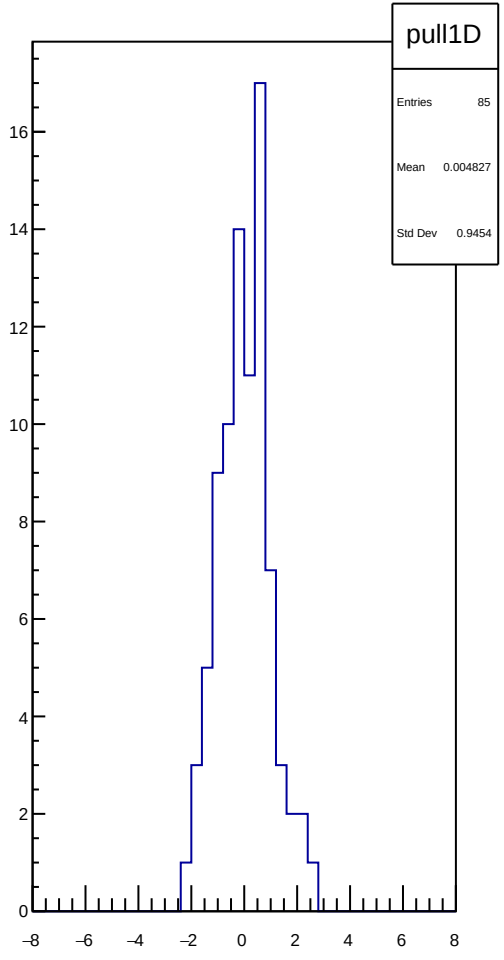

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3024 / 84
p0 403.1 ± 0.3174
500
480
460
440
420
400
380
360

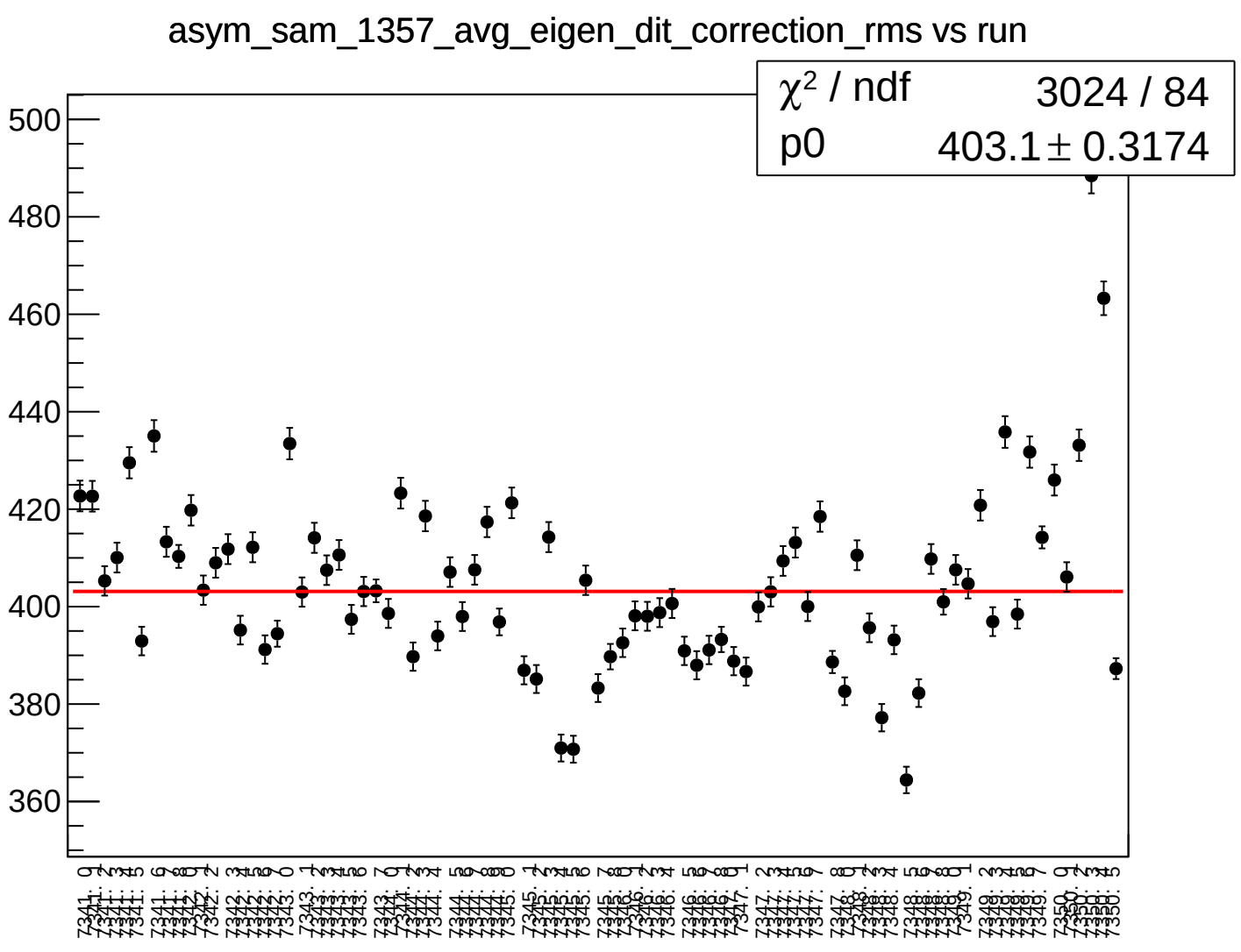

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 88.42 / 84
p0 98.87 ± 111.1
6000
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −38.9
Std Dev 0
3
2
1
0
−1
−2

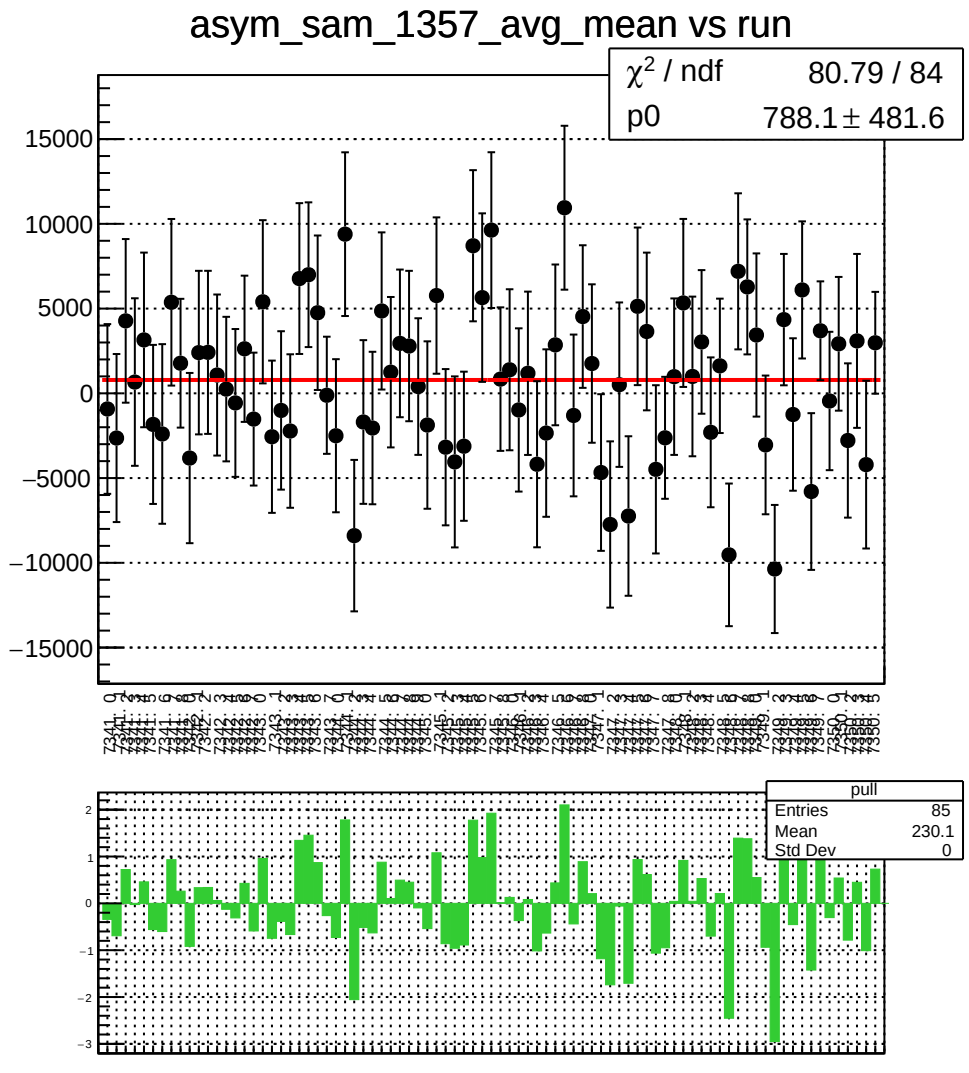

pull1D
Entries 85
Mean −0.01872
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

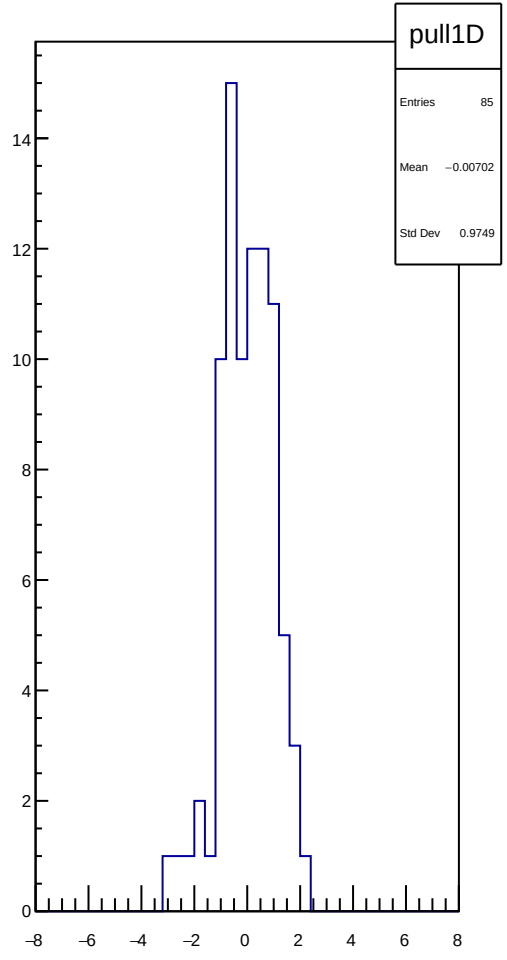

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 4.046e+04 / 84
p0 98.61 ± 0.07855
200
180
160
140
120
100
80

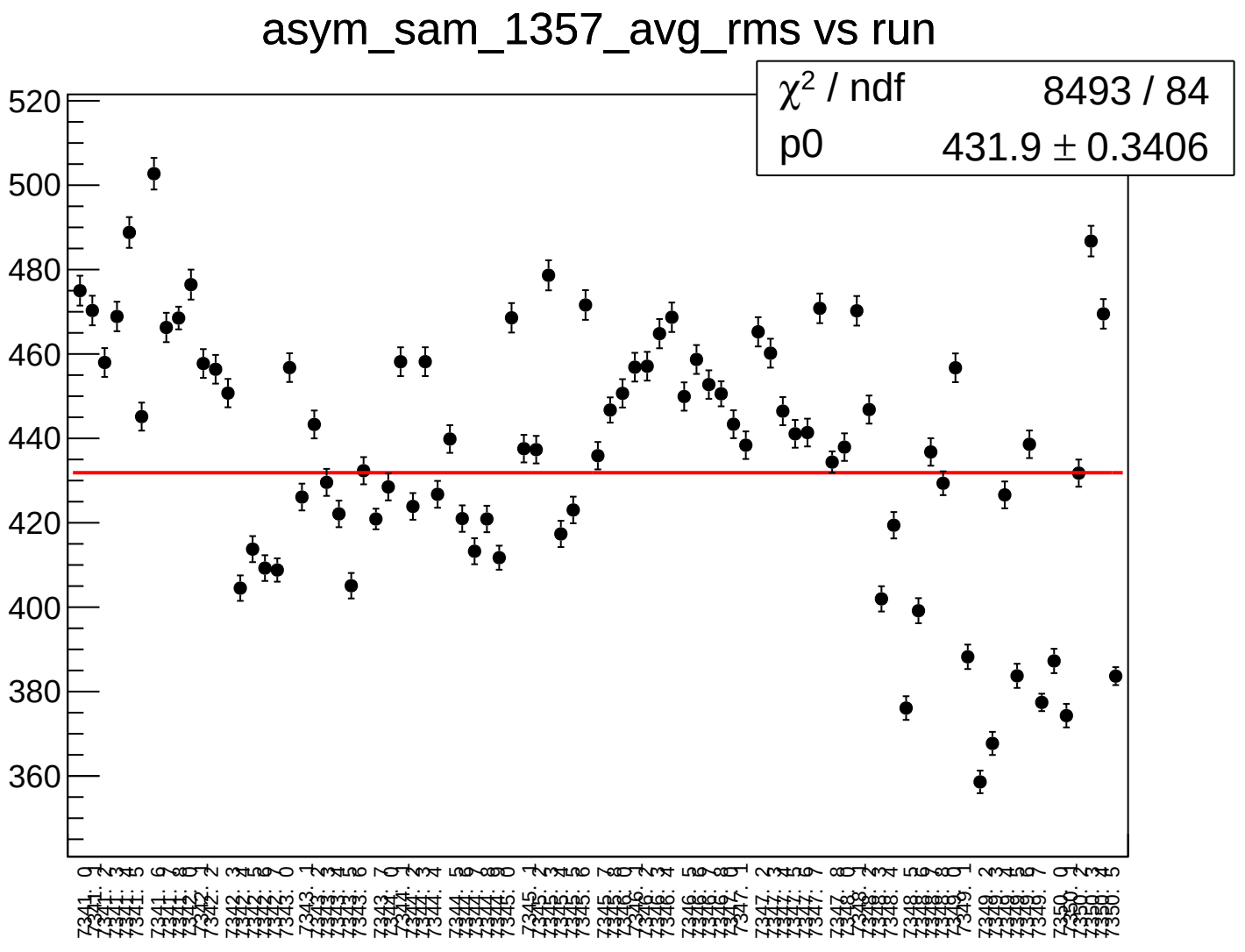

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.98 / 84
p0 −716.4 ± 448.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 374.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

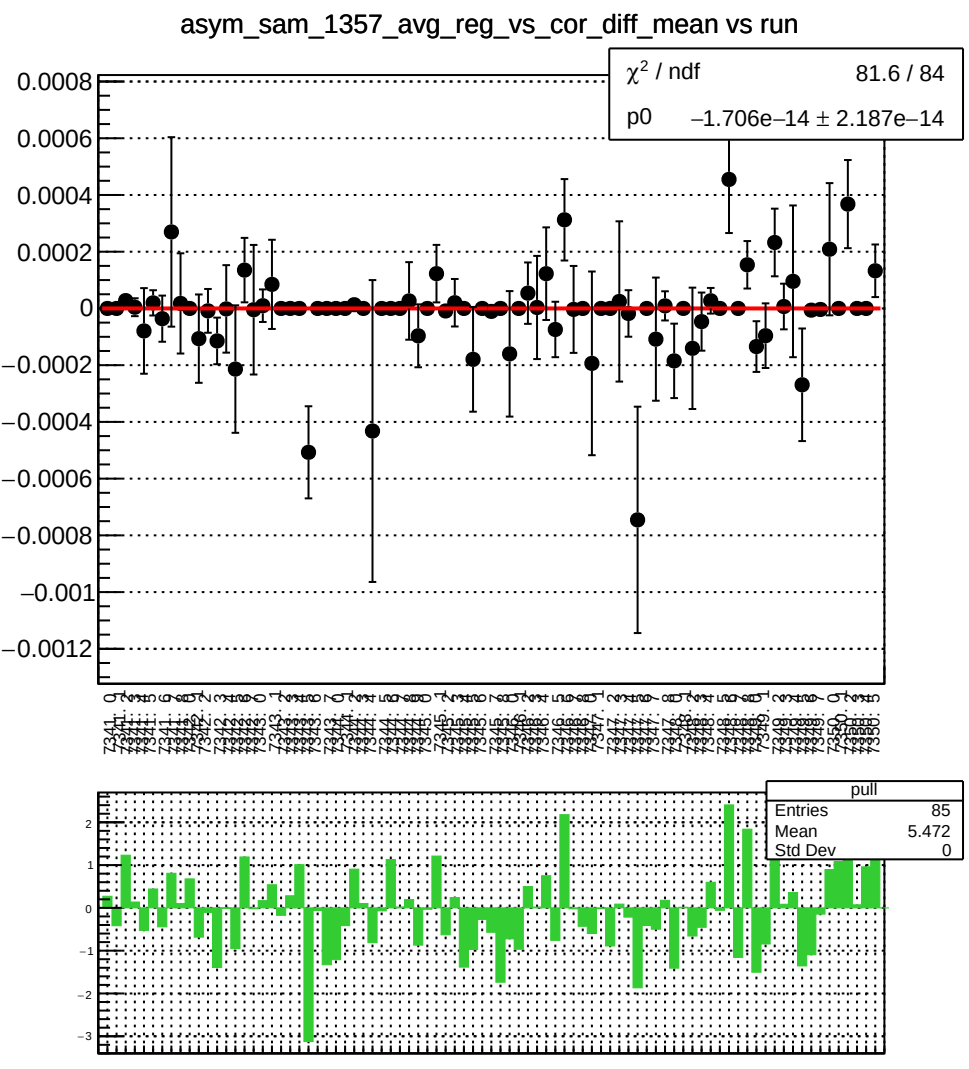

pull1D
Entries 85
Mean 0.004827
Std Dev 0.9454
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

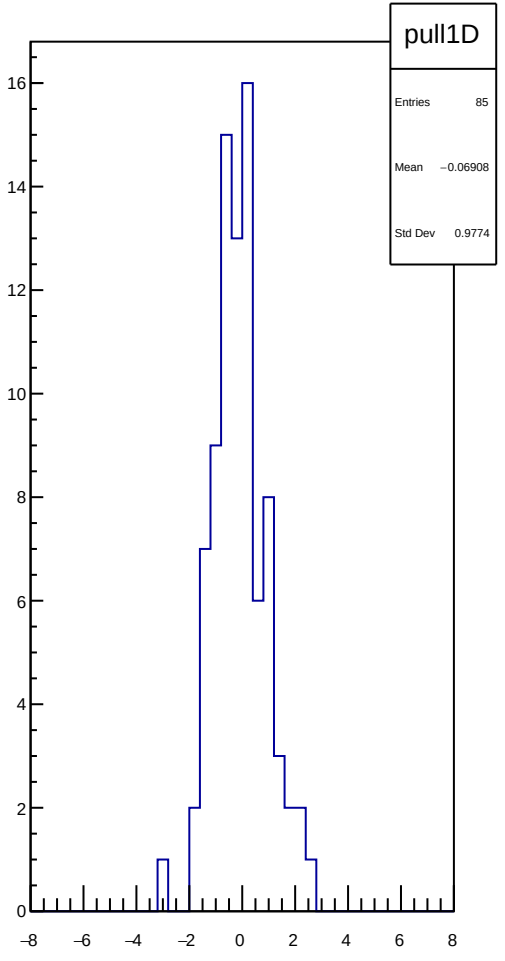

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3024 / 84
p0 403.1 ± 0.3174
500
480
460
440
420
400
380
360

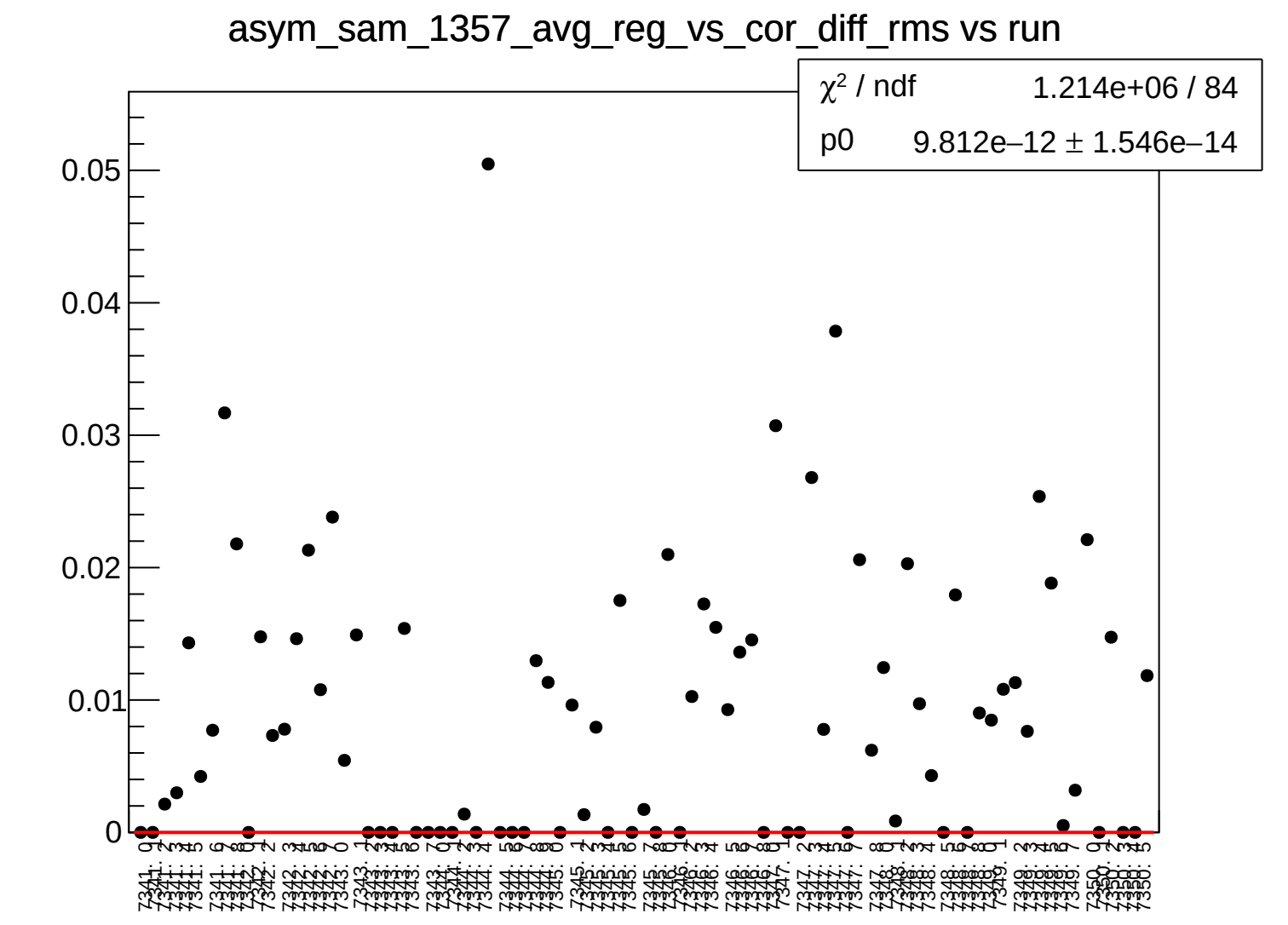

asym_sam_1357_avg_mean vs run
χ² / ndf 80.79 / 84
p0 788.1 ± 481.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 85
Mean 230.1
Std Dev 0
2
1
0
−1
−2
−3

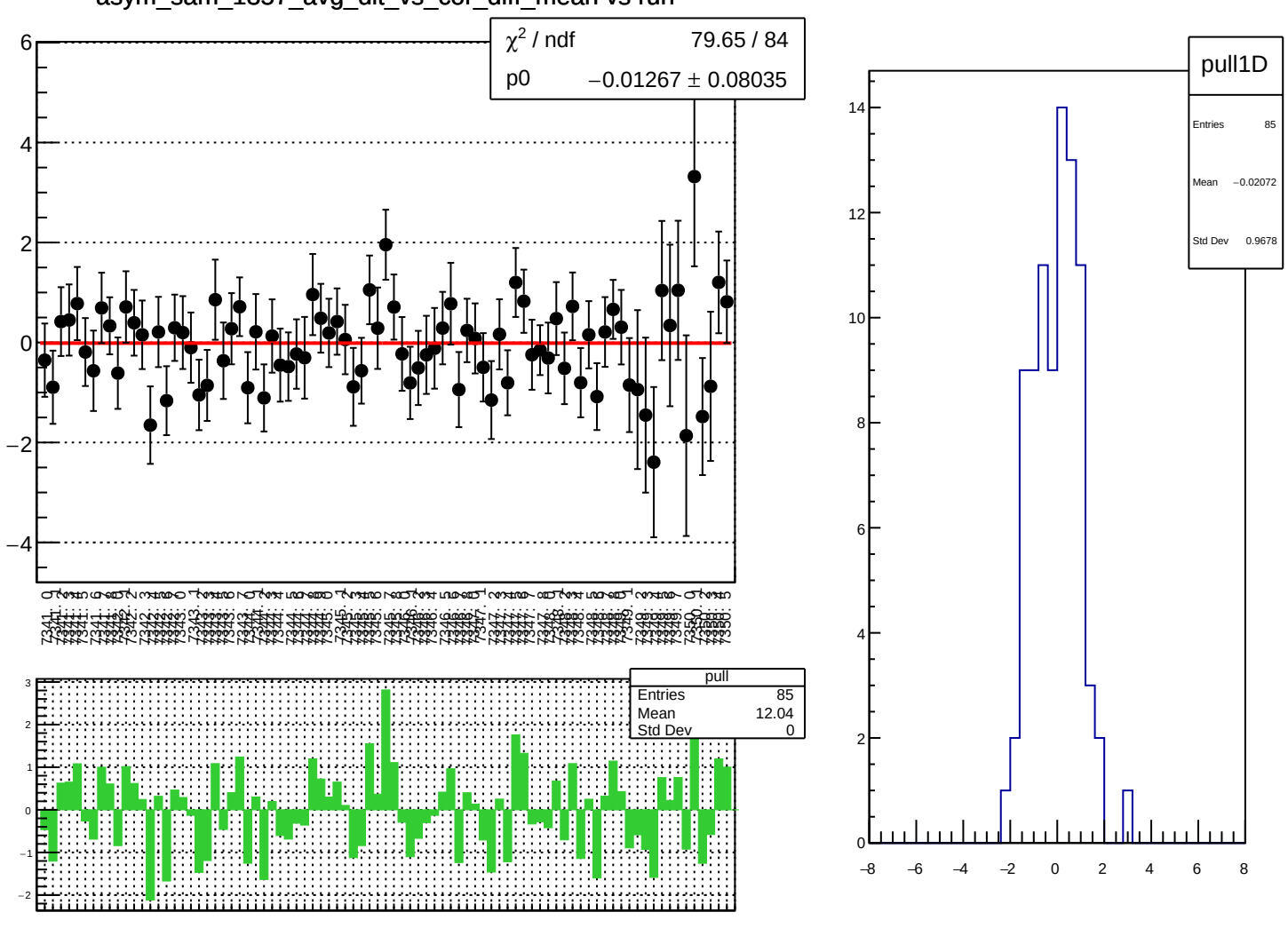

pull1D
Entries 85
Mean −0.00702
Std Dev 0.9749
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

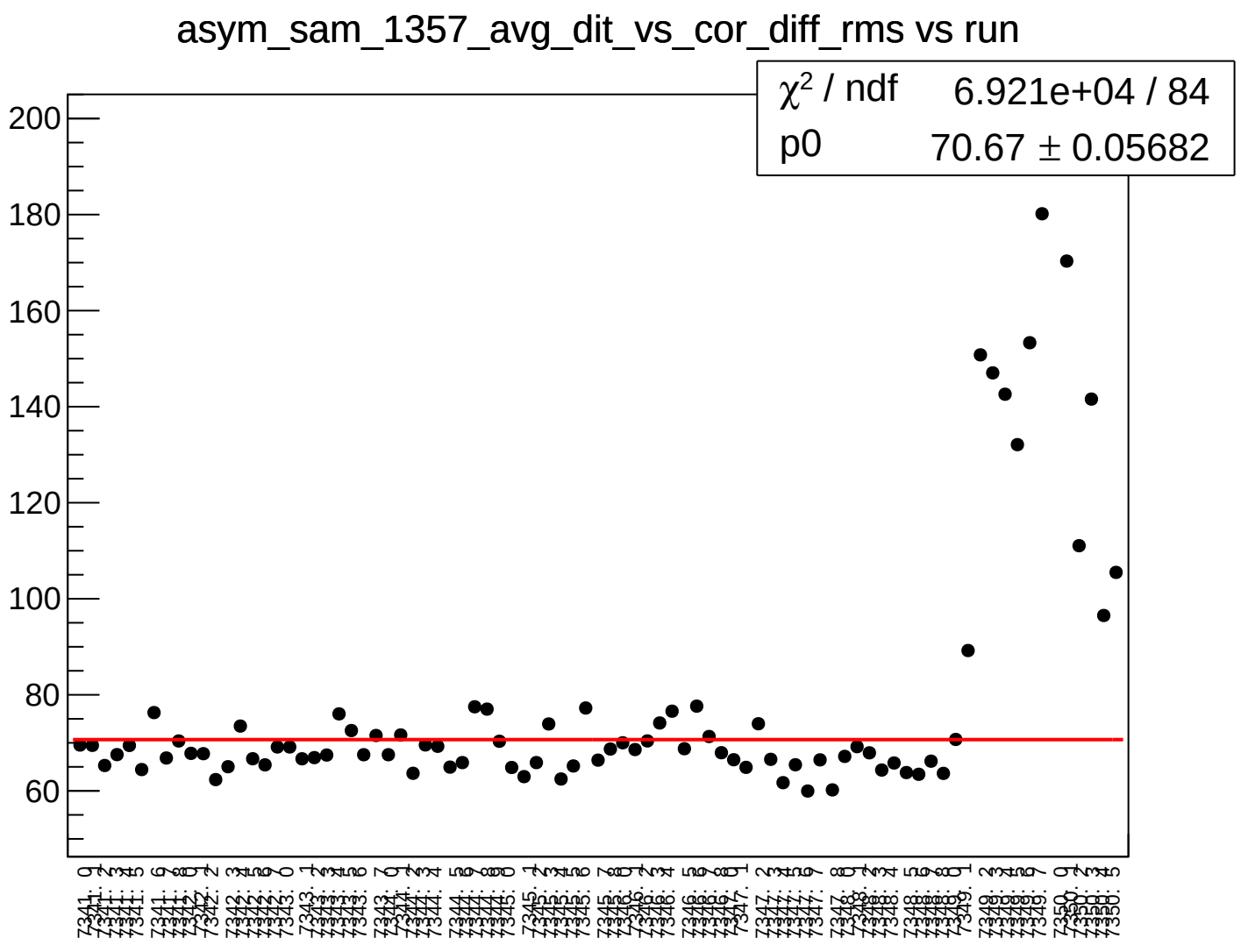

asym_sam_1357_avg_rms vs run
χ² / ndf 8493 / 84
p0 431.9 ± 0.3406
520
500
480
460
440
420
400
380
360

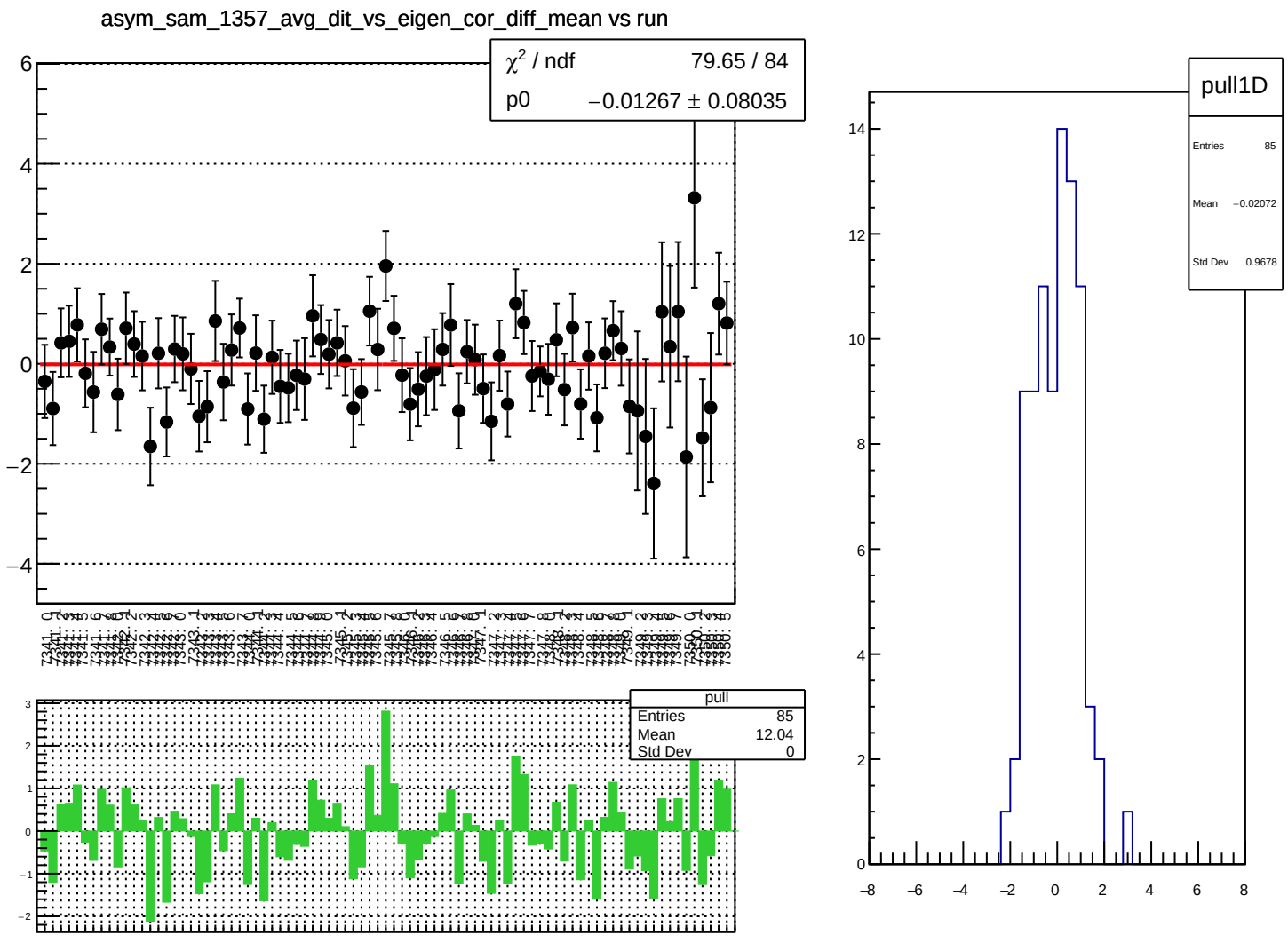

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.6 / 84
p0 −1.706e−14 ± 2.187e−14
pull
Entries 85
Mean 5.472
Std Dev 0

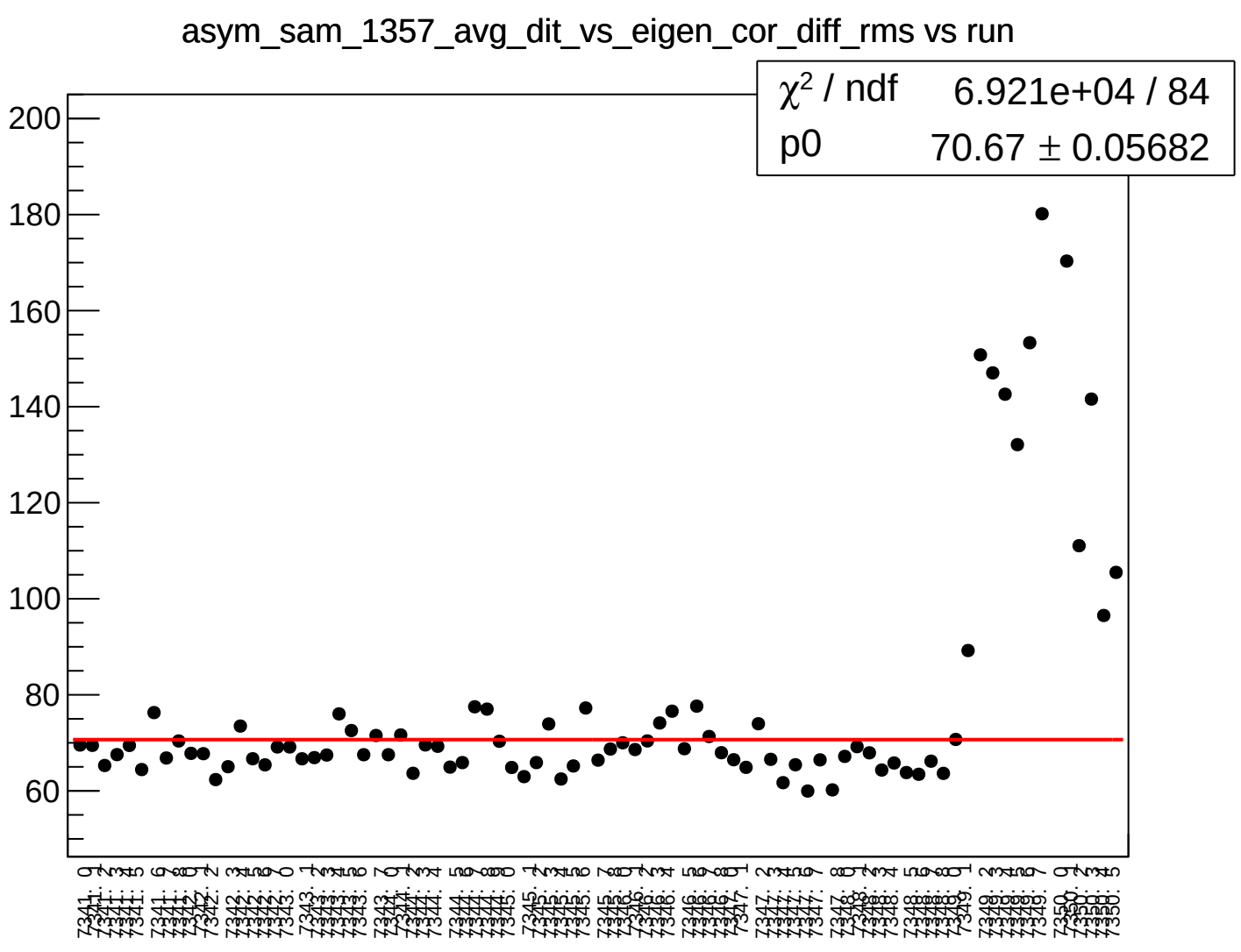

pull1D
Entries 85
Mean −0.06908
Std Dev 0.9774

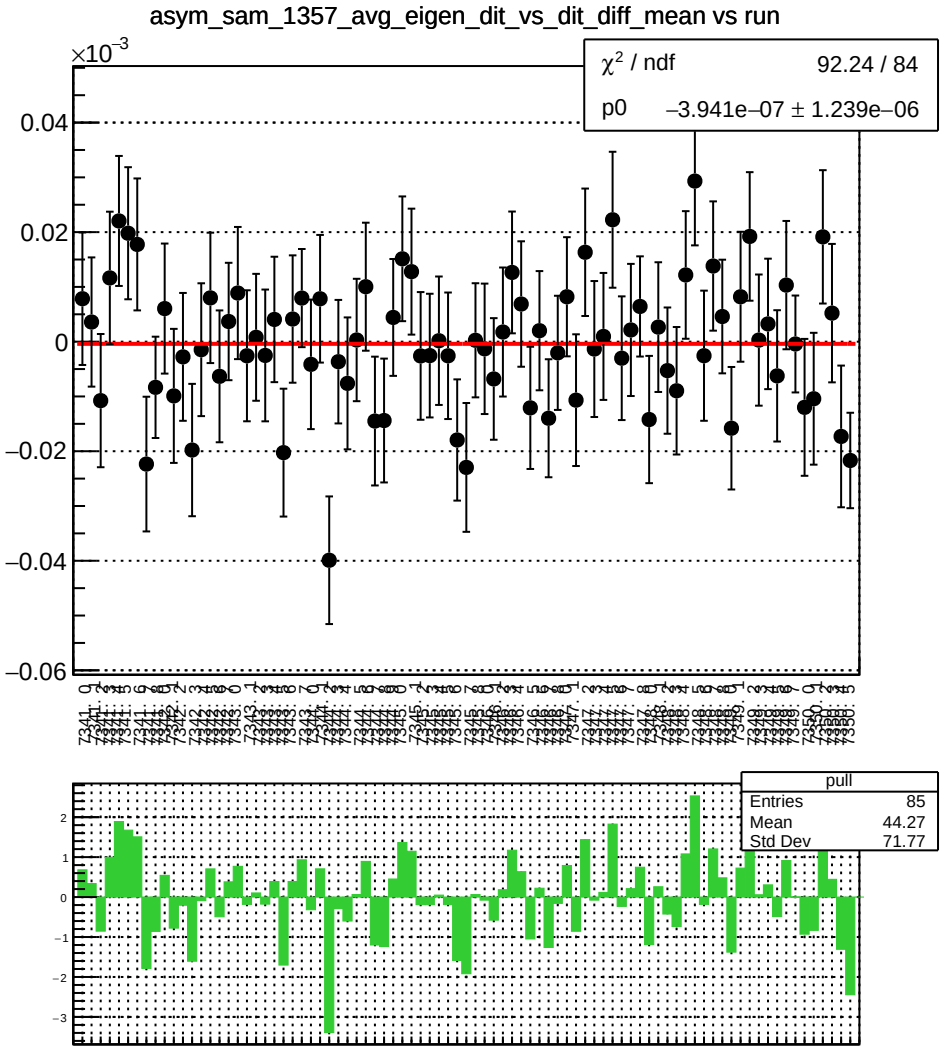

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.214e+06 / 84
p0 9.812e−12 ± 1.546e−14
0.05
0.04
0.03
0.02
0.01
0

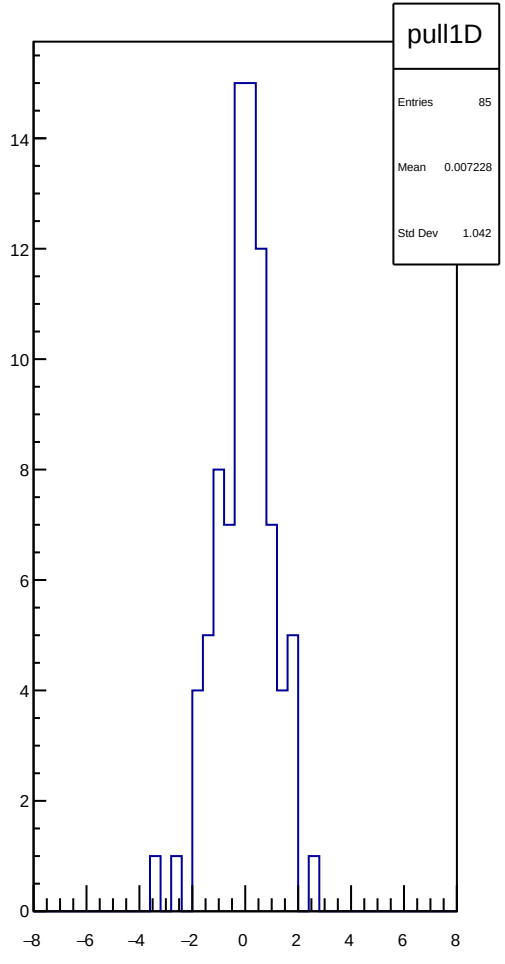

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.65 / 84
p0 −0.01267 ± 0.08035
pull
Entries 85
Mean 12.04
Std Dev 0
pull1D
Entries 85
Mean −0.02072
Std Dev 0.9678

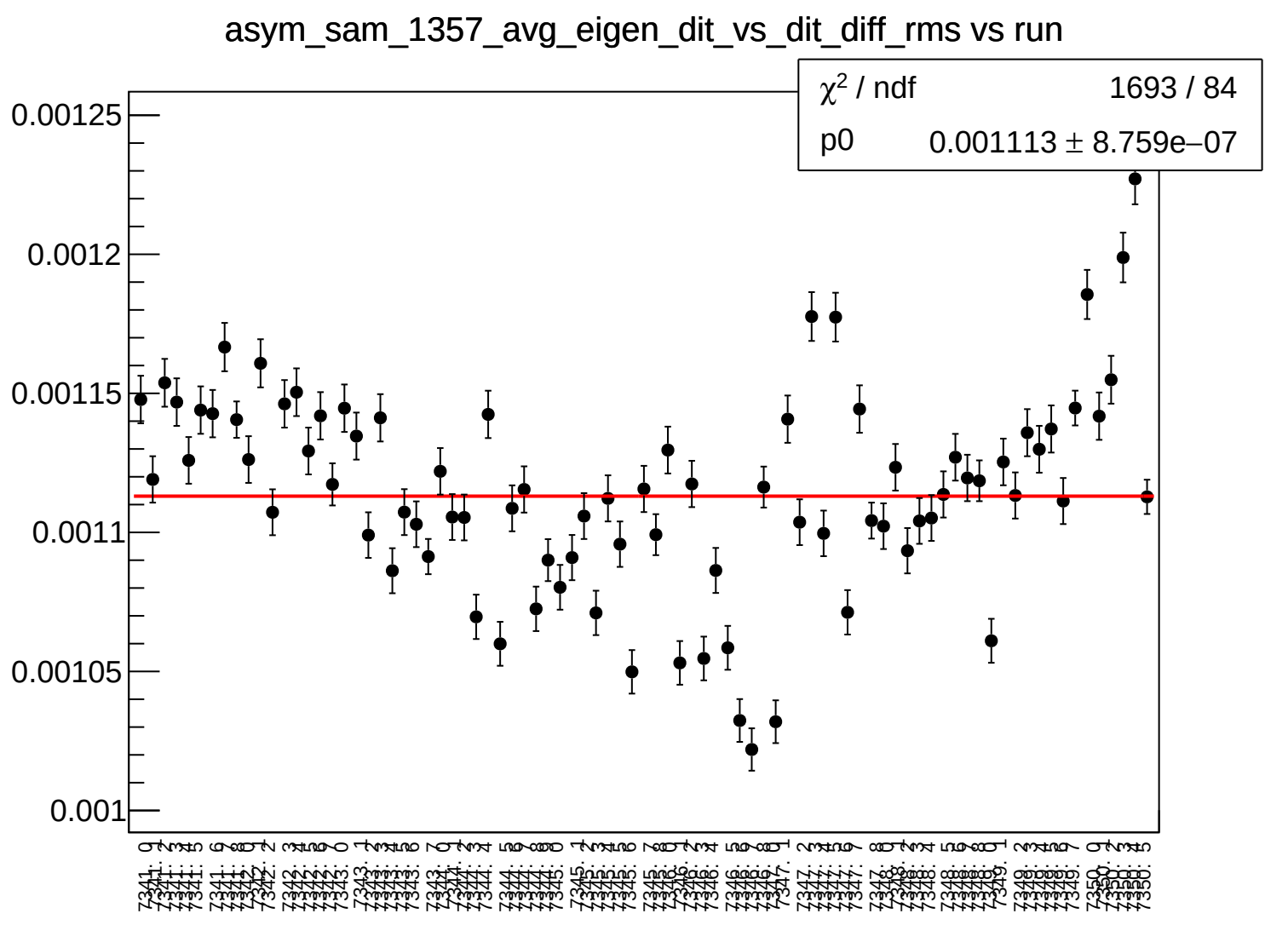

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.921e+04 / 84
p0 70.67 ± 0.05682
200
180
160
140
120
100
80
60

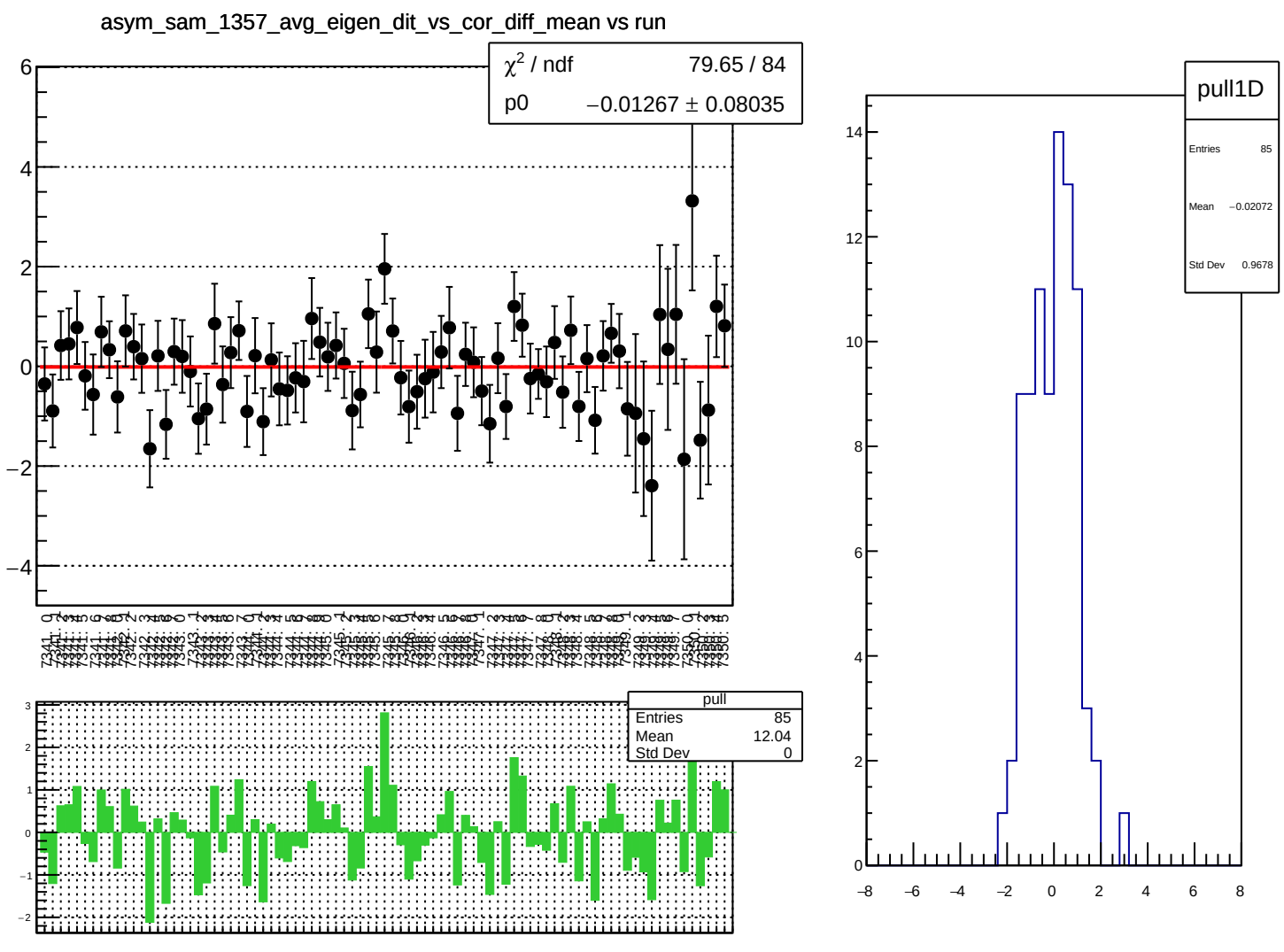

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.65 / 84
p0 −0.01267 ± 0.08035
pull
Entries 85
Mean 12.04
Std Dev 0
pull1D
Entries 85
Mean −0.02072
Std Dev 0.9678

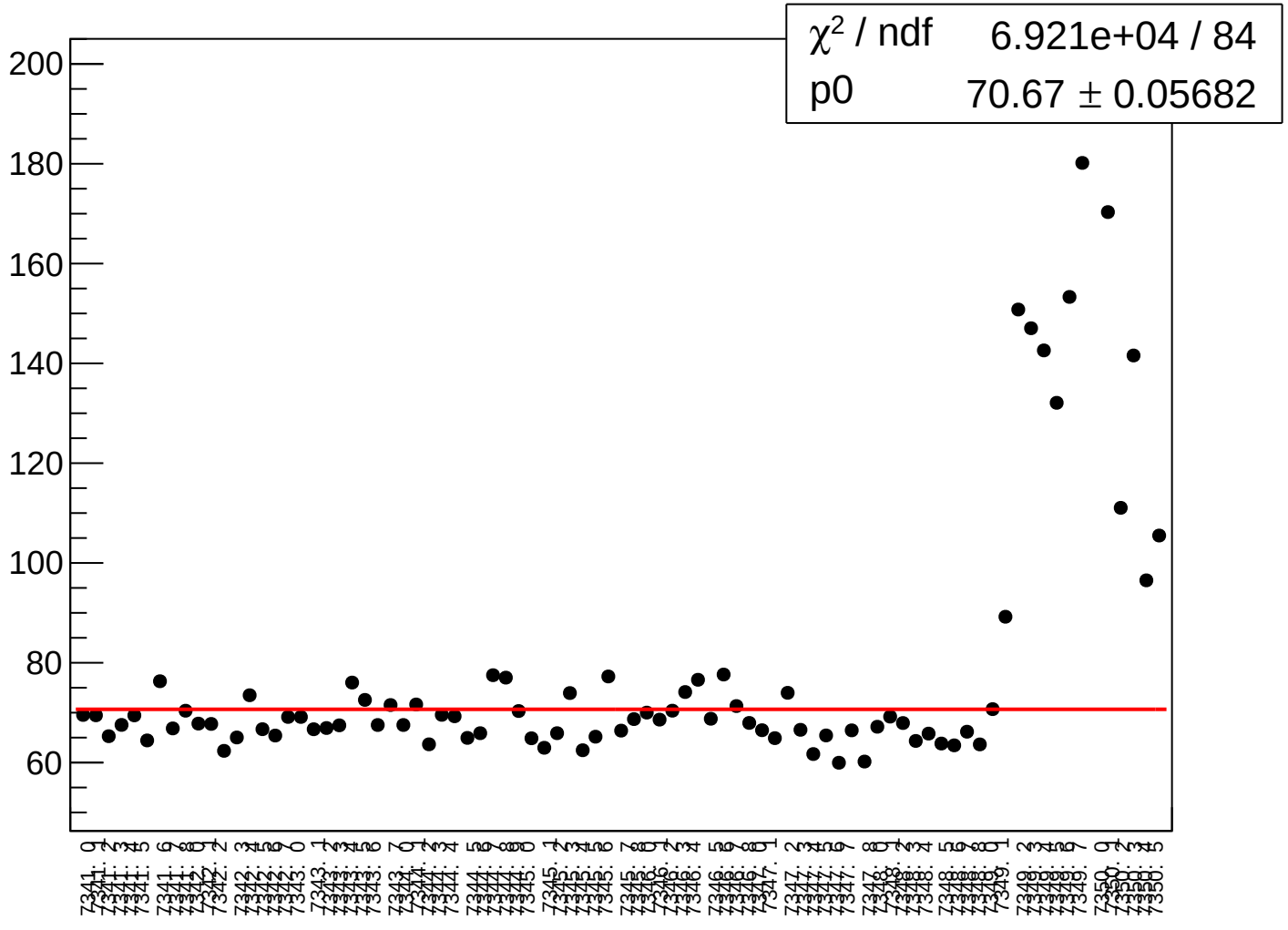

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.921e+04 / 84
p0 70.67 ± 0.05682
200
180
160
140
120
100
80
60

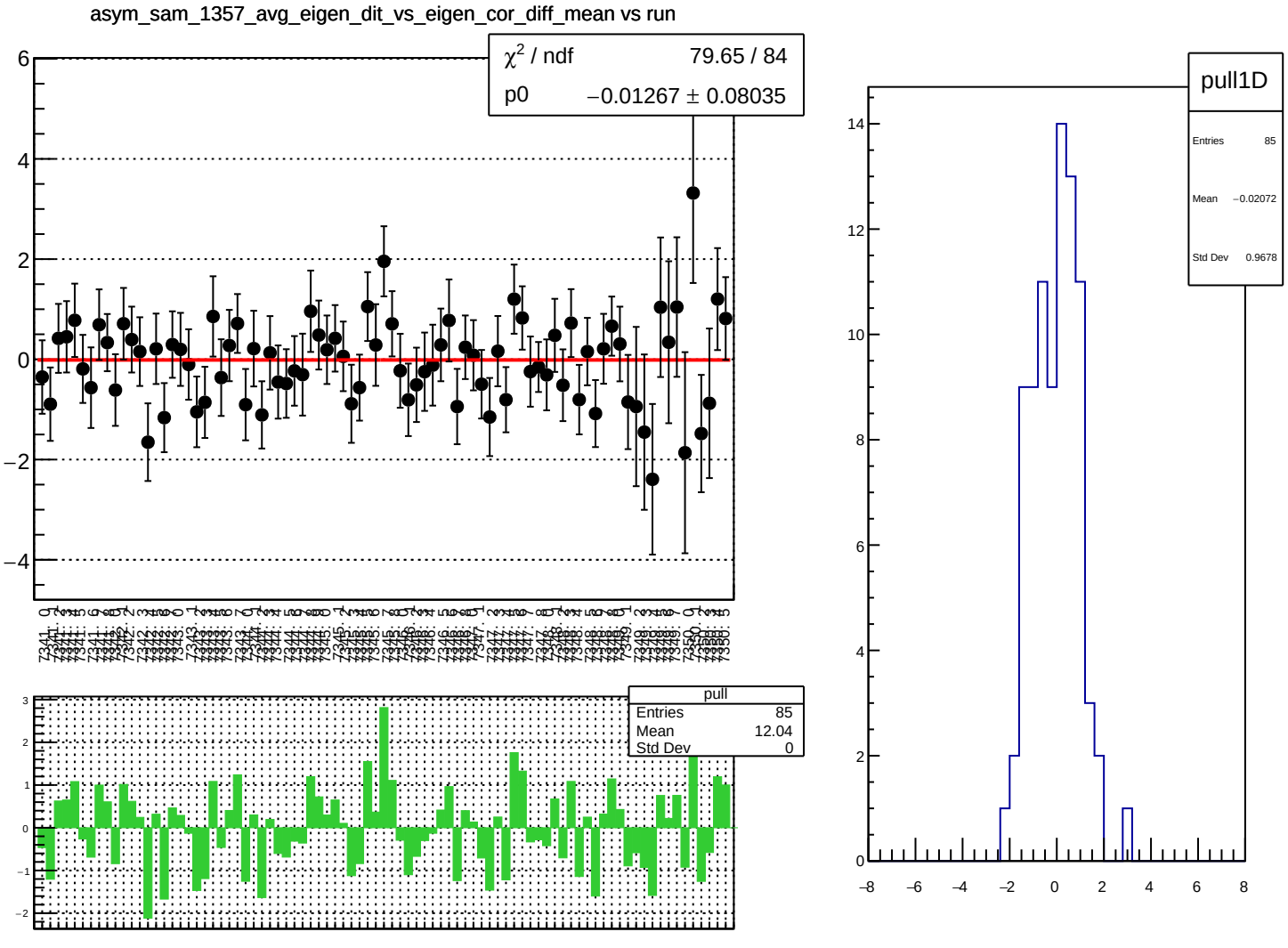

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.24 / 84
p0 −3.941e−07 ± 1.239e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean 44.27
Std Dev 71.77
2
1
0
−1
−2
−3

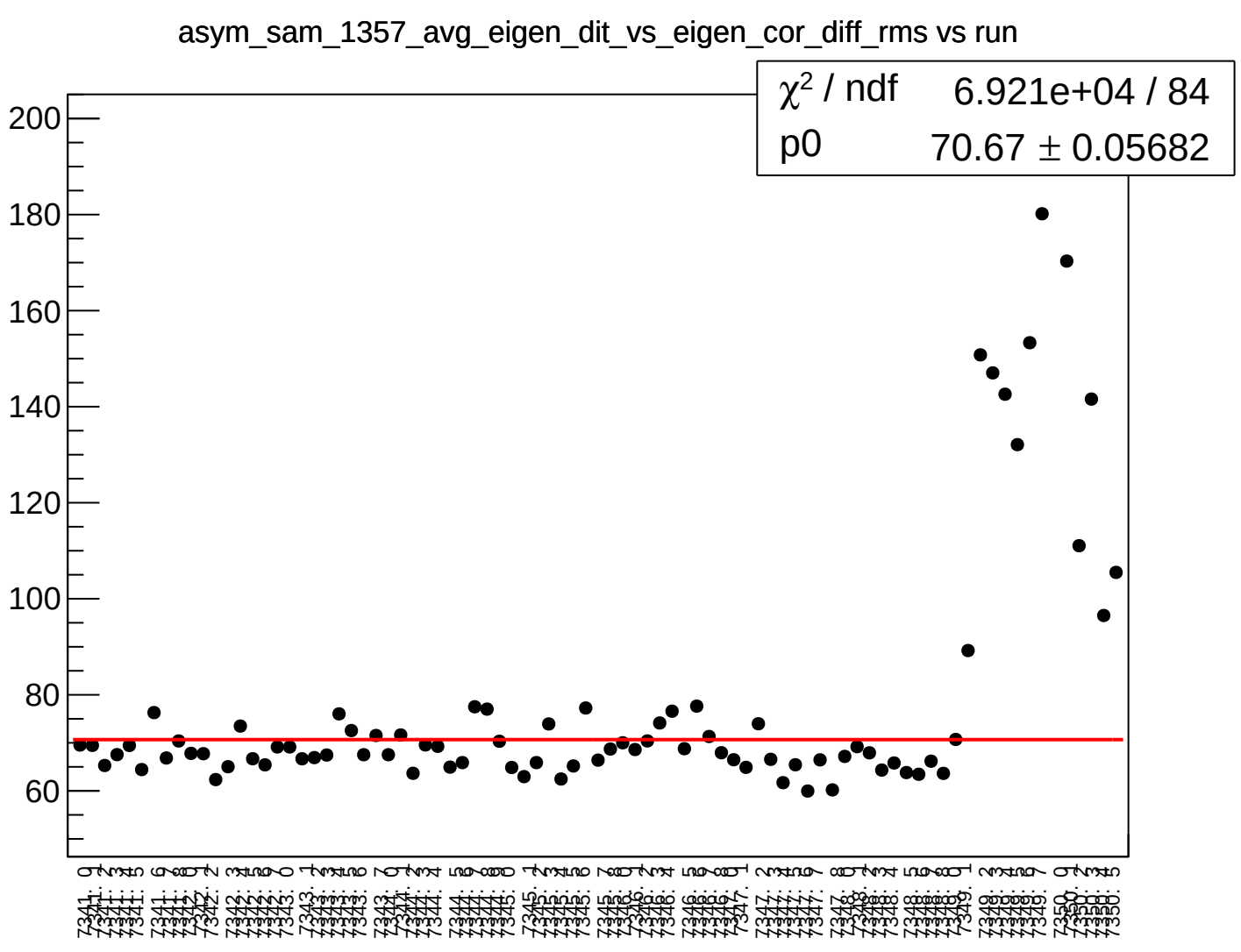

pull1D
Entries 85
Mean 0.007228
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

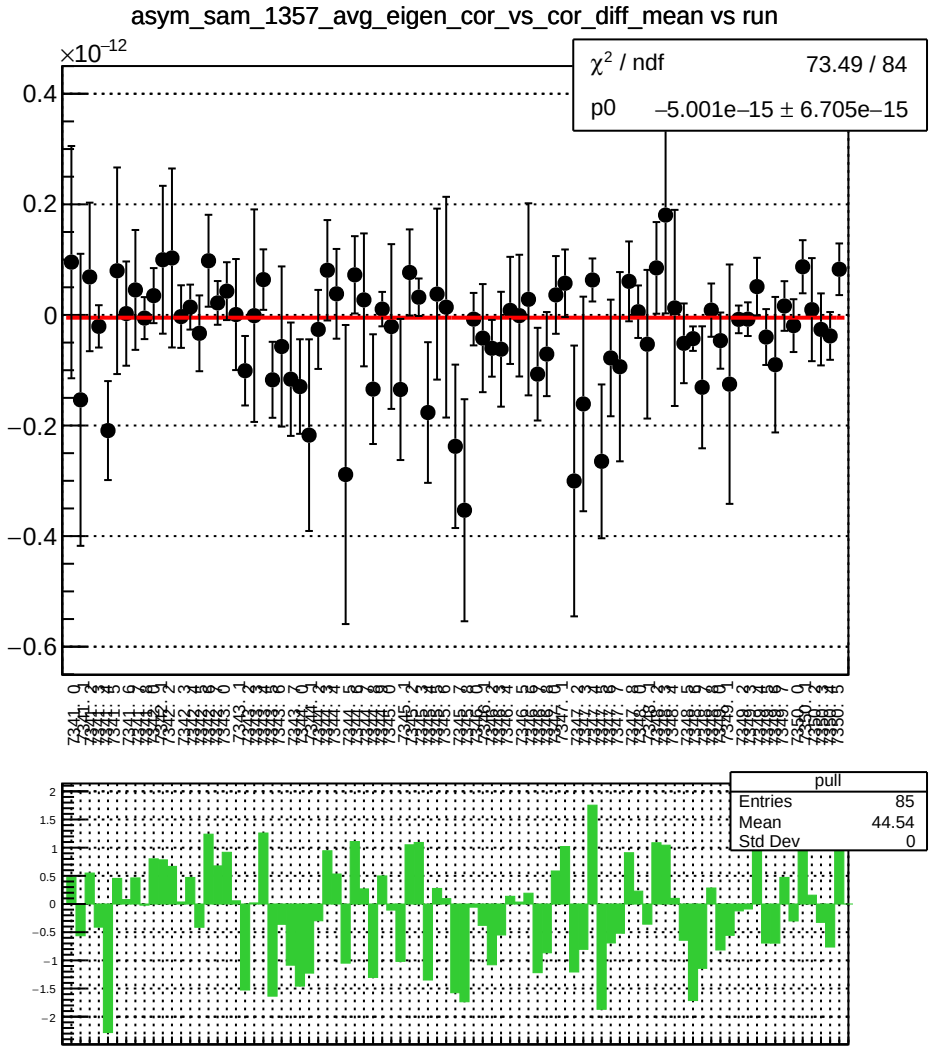

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1693 / 84
p0 0.001113 ± 8.759e−07
0.00125
0.0012
0.00115
0.0011
0.00105
0.001

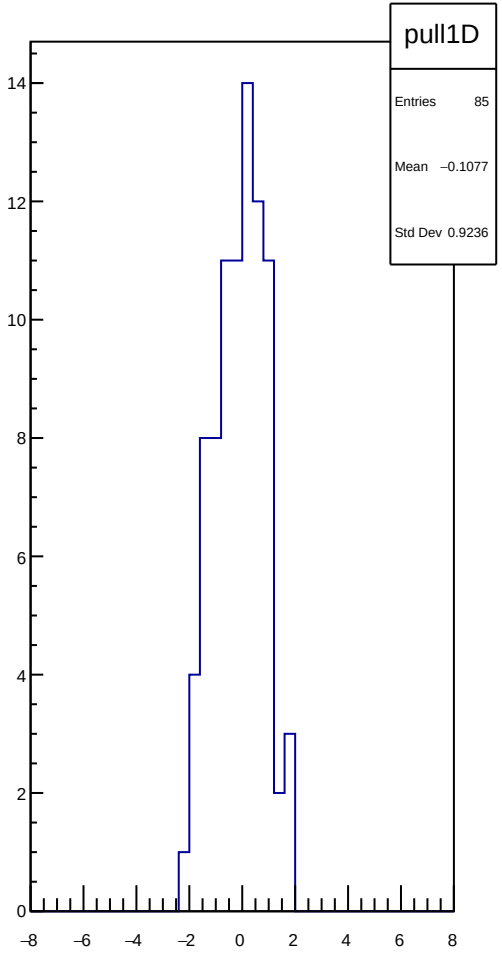

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.65 / 84
p0 −0.01267 ± 0.08035
pull
Entries 85
Mean 12.04
Std Dev 0
pull1D
Entries 85
Mean −0.02072
Std Dev 0.9678

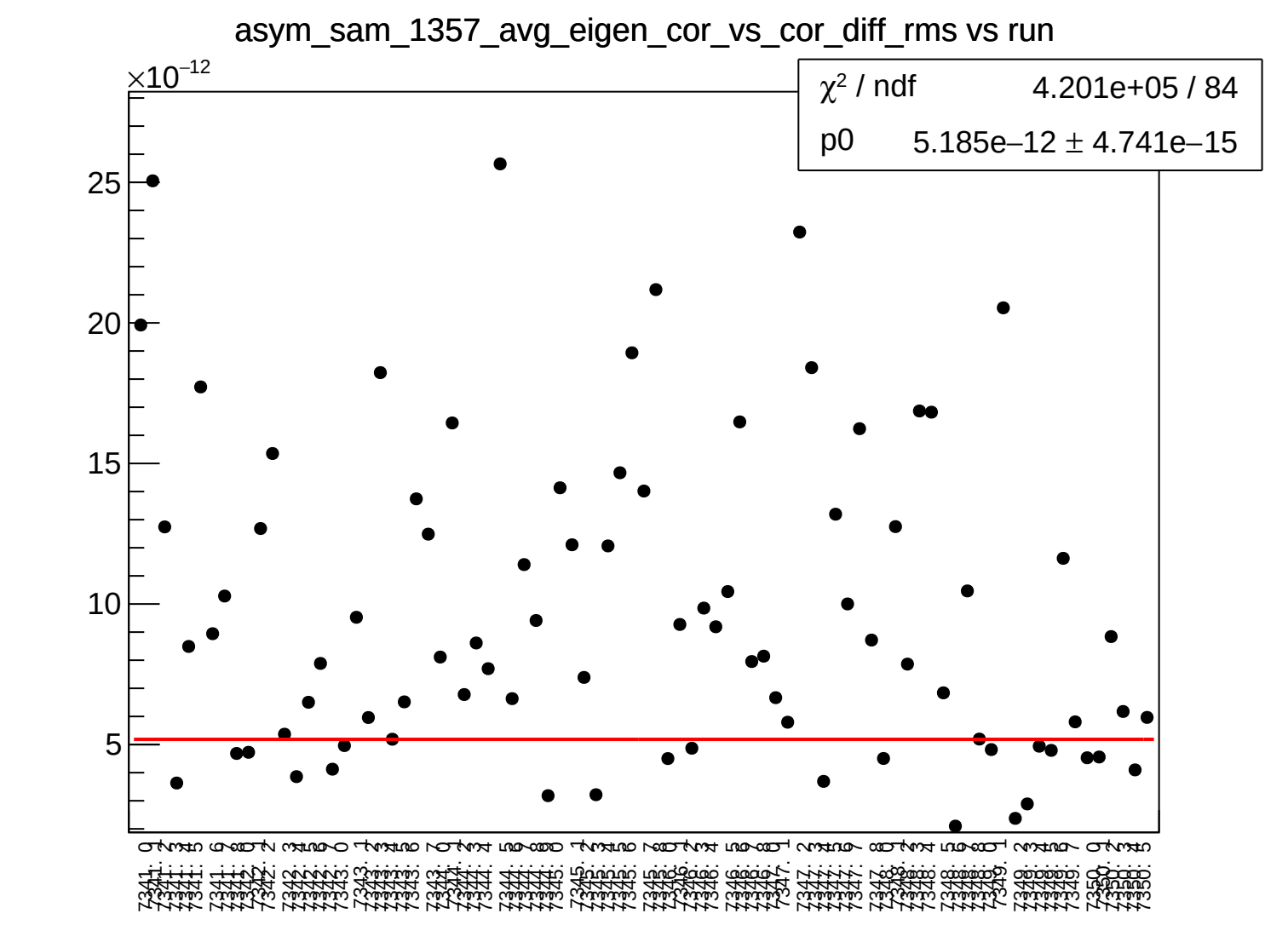

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.921e+04 / 84
p0 70.67 ± 0.05682
200
180
160
140
120
100
80
60

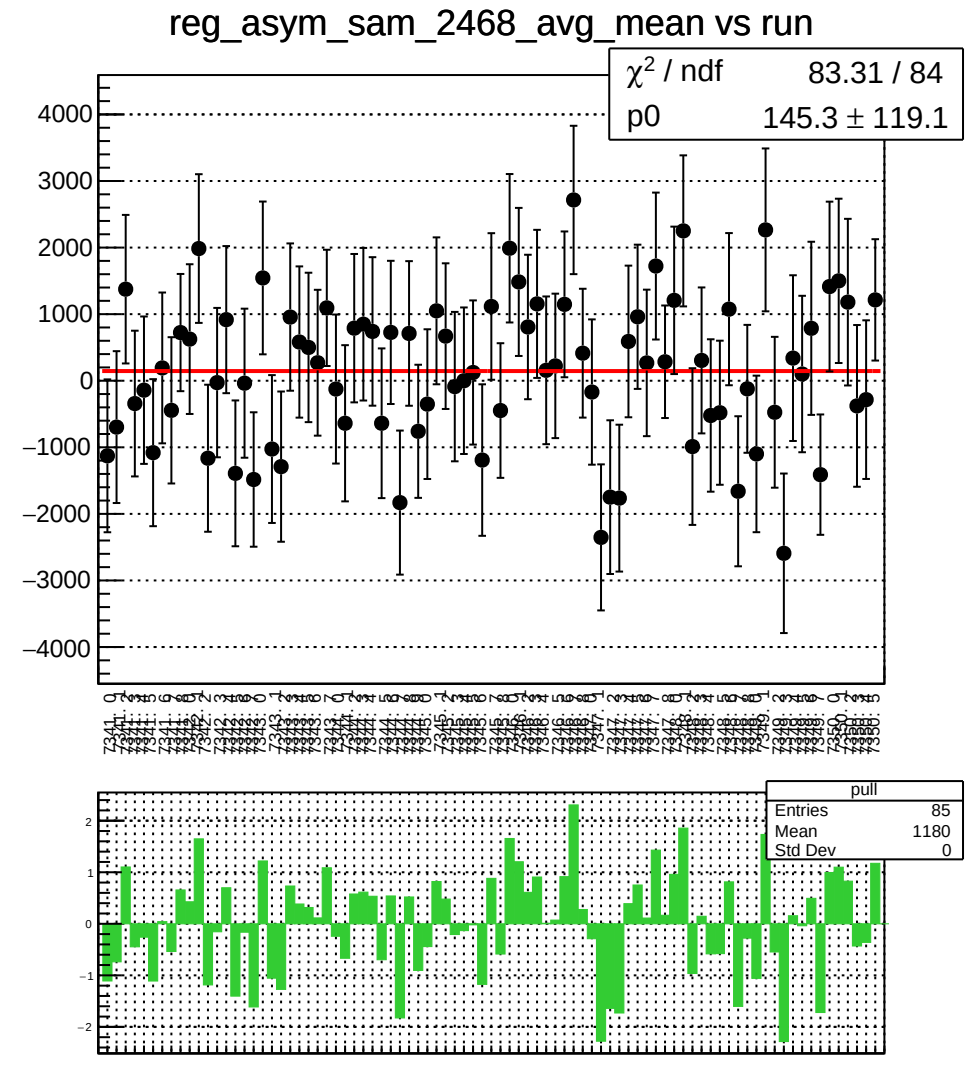

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.65 / 84
p0 −0.01267 ± 0.08035
pull
Entries 85
Mean 12.04
Std Dev 0
pull1D
Entries 85
Mean −0.02072
Std Dev 0.9678

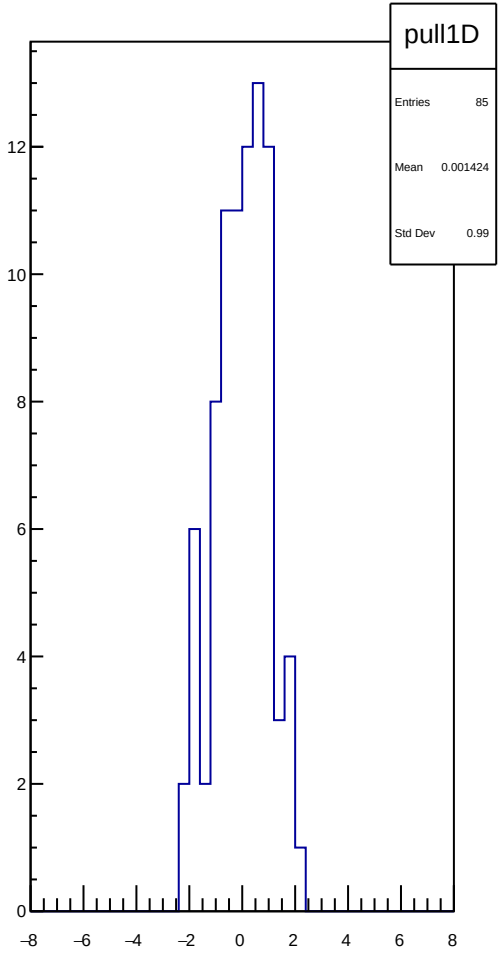

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.921e+04 / 84
p0 70.67 ± 0.05682
200
180
160
140
120
100
80
60

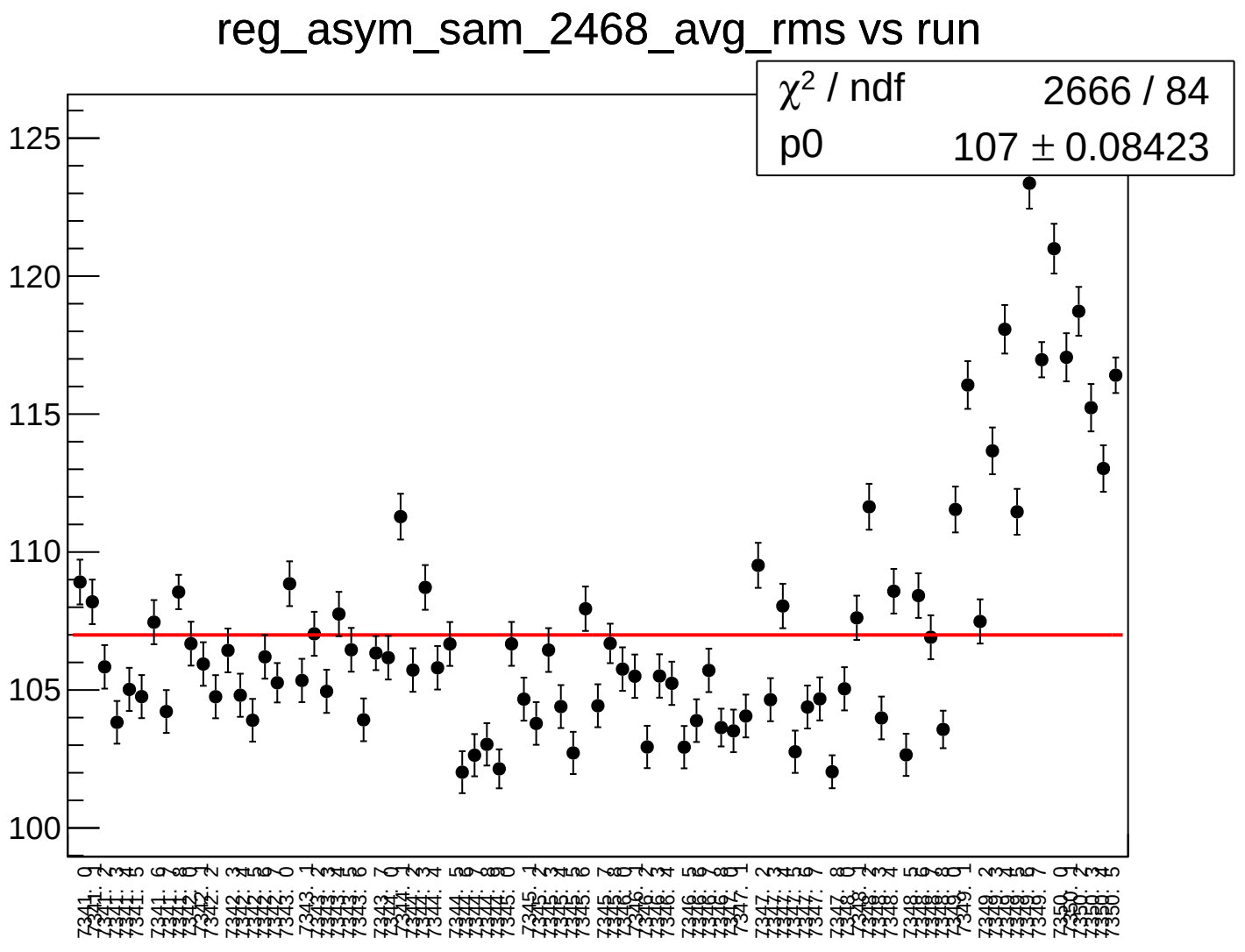

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 73.49 / 84
p0 −5.001e−15 ± 6.705e−15
pull
Entries 85
Mean 44.54
Std Dev 0

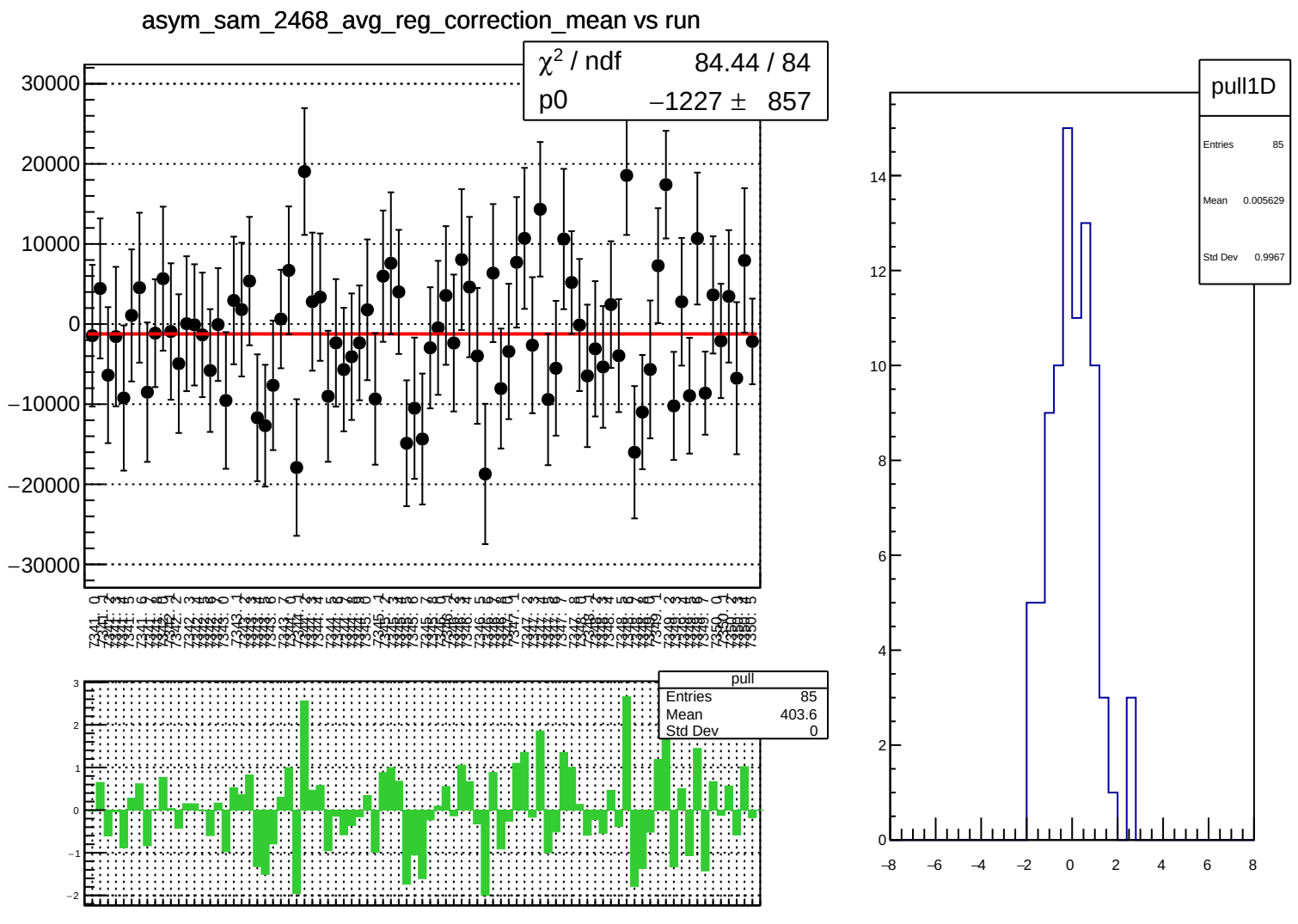

pull1D
Entries 85
Mean −0.1077
Std Dev 0.9236

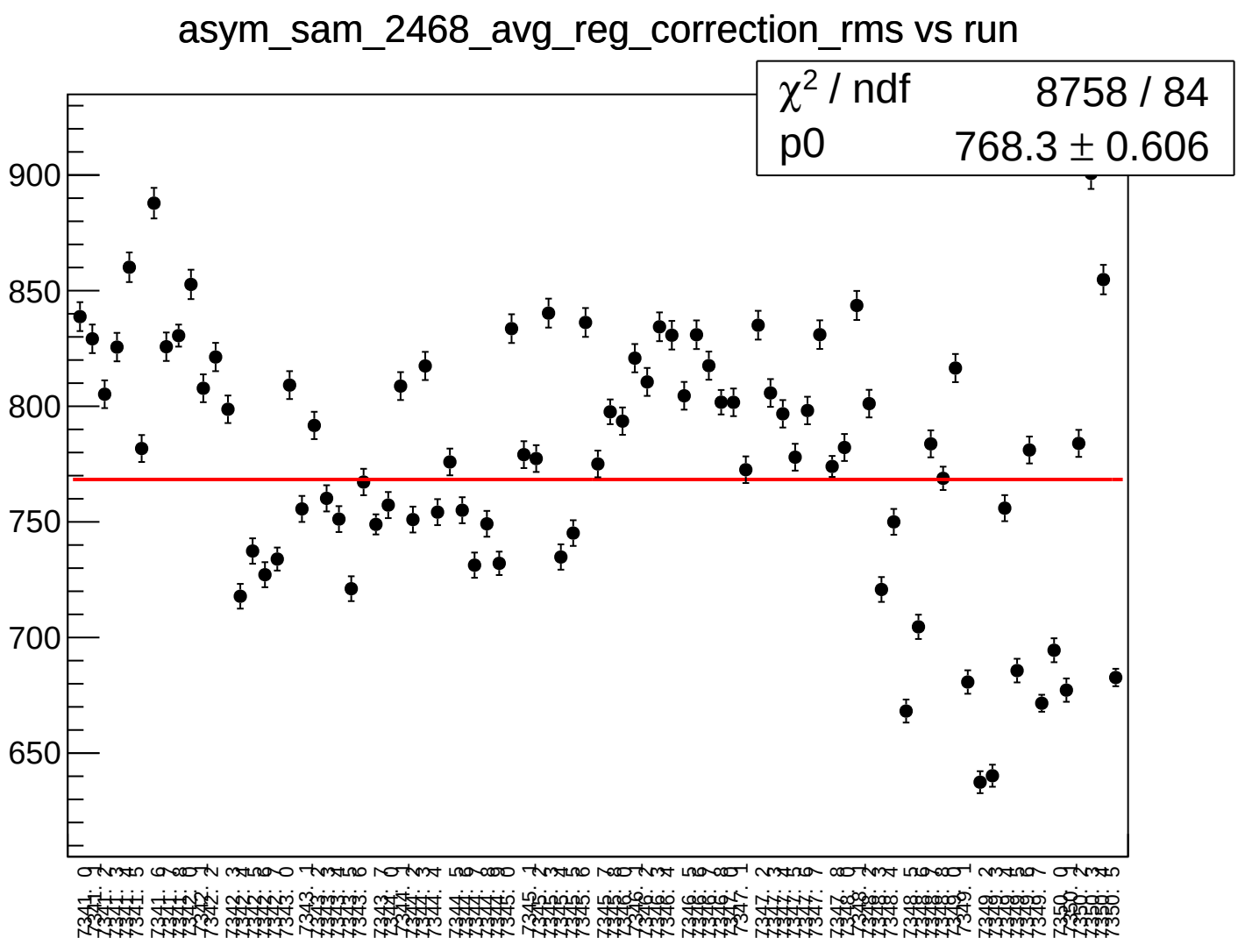

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.201e+05 / 84
p0 5.185e−12 ± 4.741e−15
25
20
15
10
5

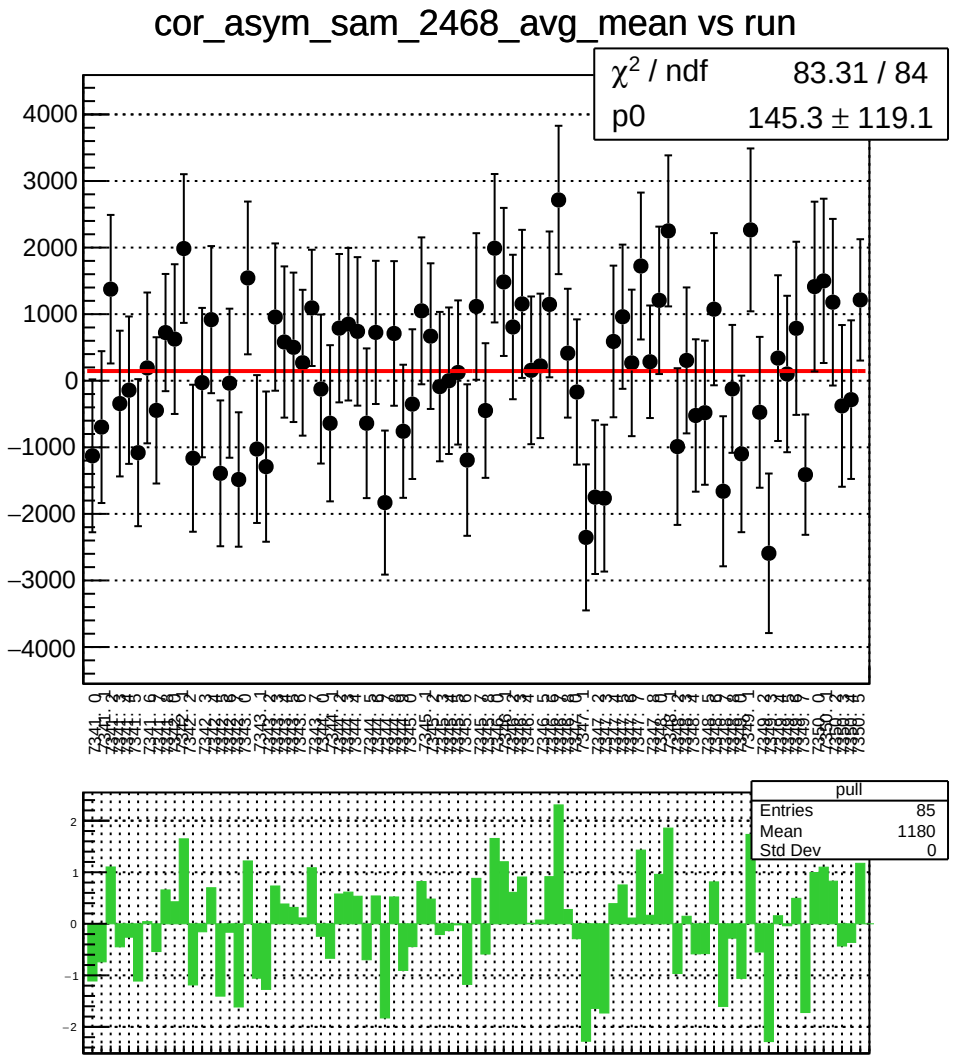

reg_asym_sam_2468_avg_mean vs run
χ^2 / ndf 83.31 / 84
p0 145.3 ± 119.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 85
Mean 1180
Std Dev 0
2
1
0
−1
−2

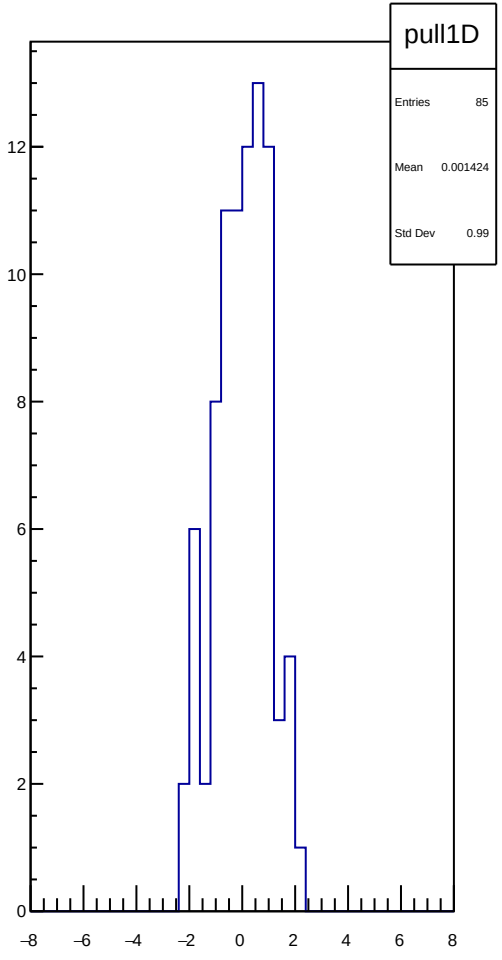

pull1D
Entries 85
Mean 0.001424
Std Dev 0.99
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

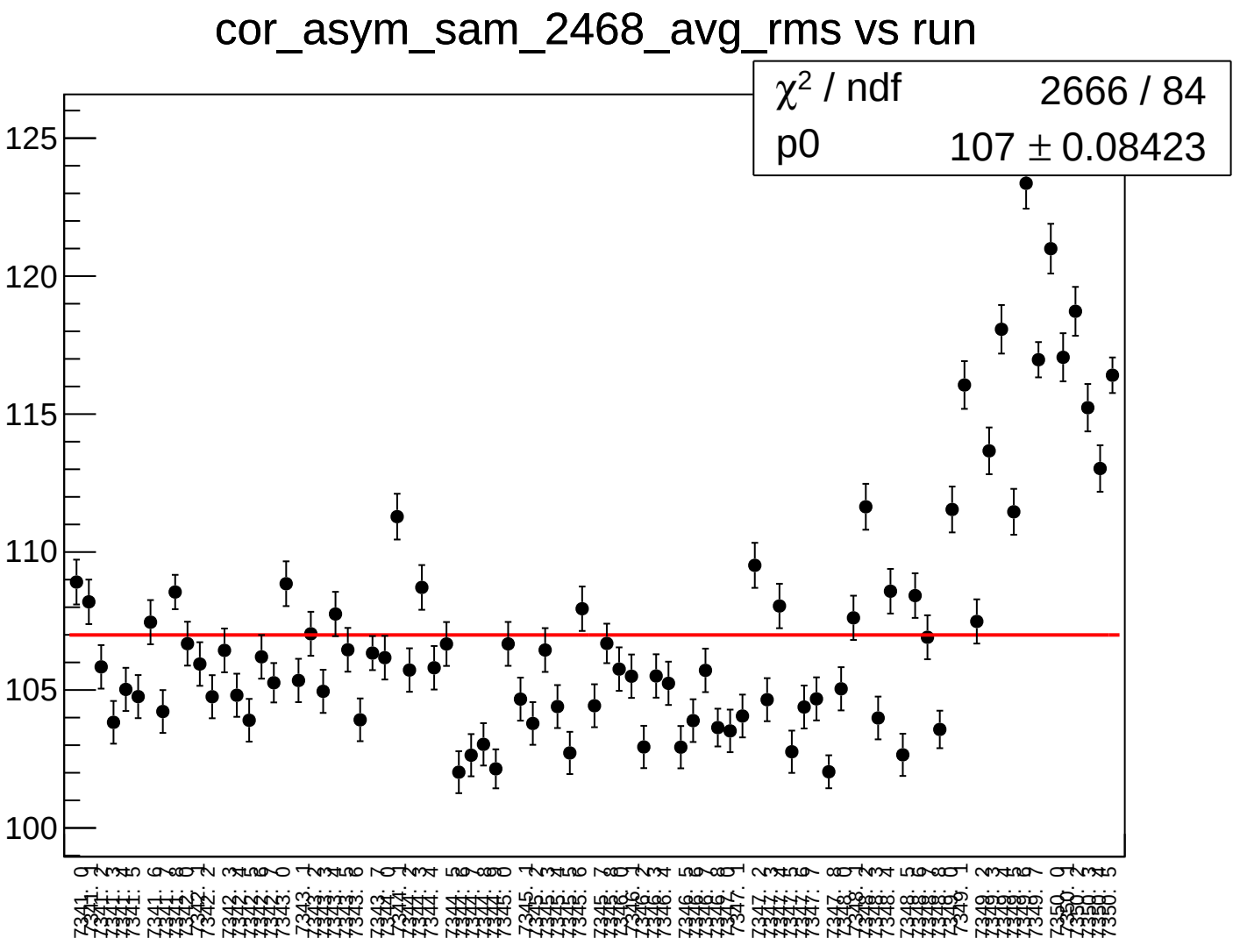

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2666 / 84
p0 107 ± 0.08423
125
120
115
110
105
100

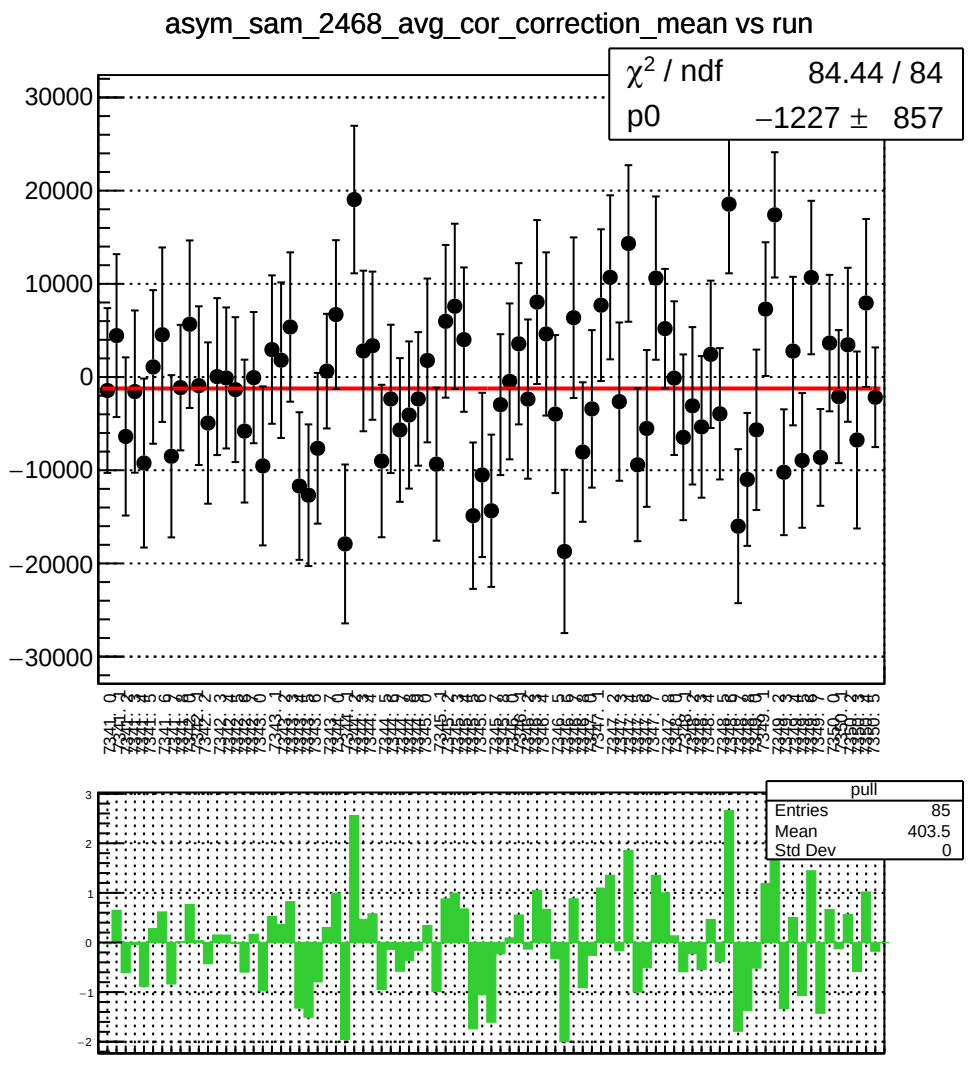

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 84.44 / 84
p0 −1227 ± 857
pull
Entries 85
Mean 403.6
Std Dev 0
pull1D
Entries 85
Mean 0.005629
Std Dev 0.9967

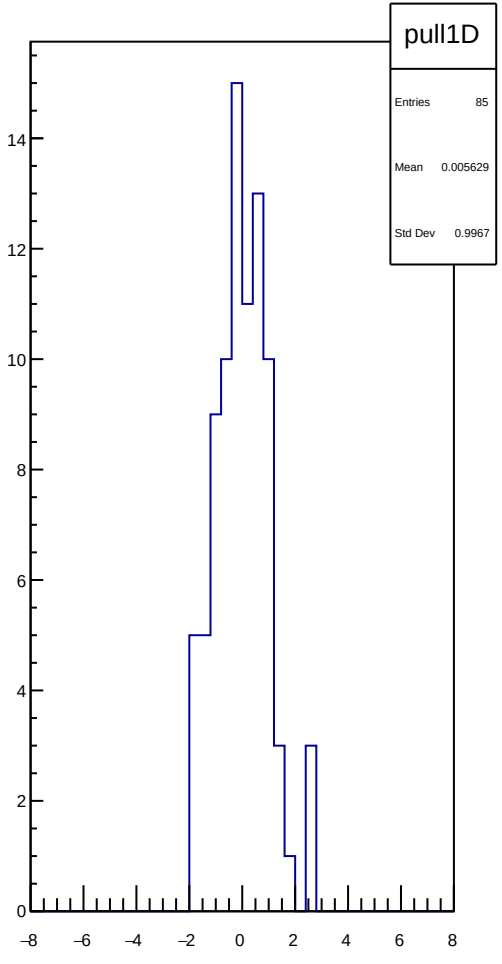

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 8758 / 84
p0 768.3 ± 0.606
900
850
800
750
700
650

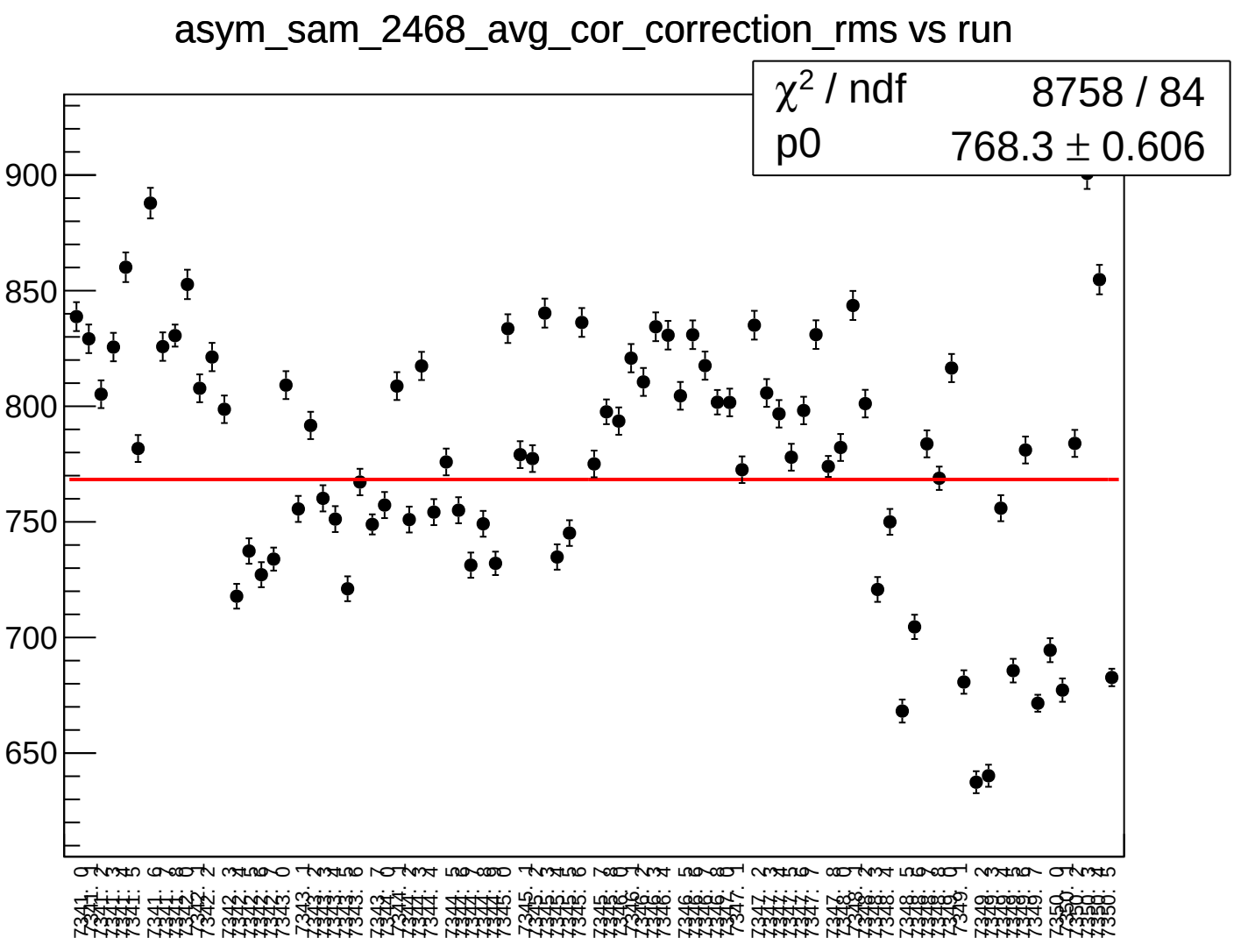

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 83.31 / 84
p0 145.3 ± 119.1
pull
Entries 85
Mean 1180
Std Dev 0

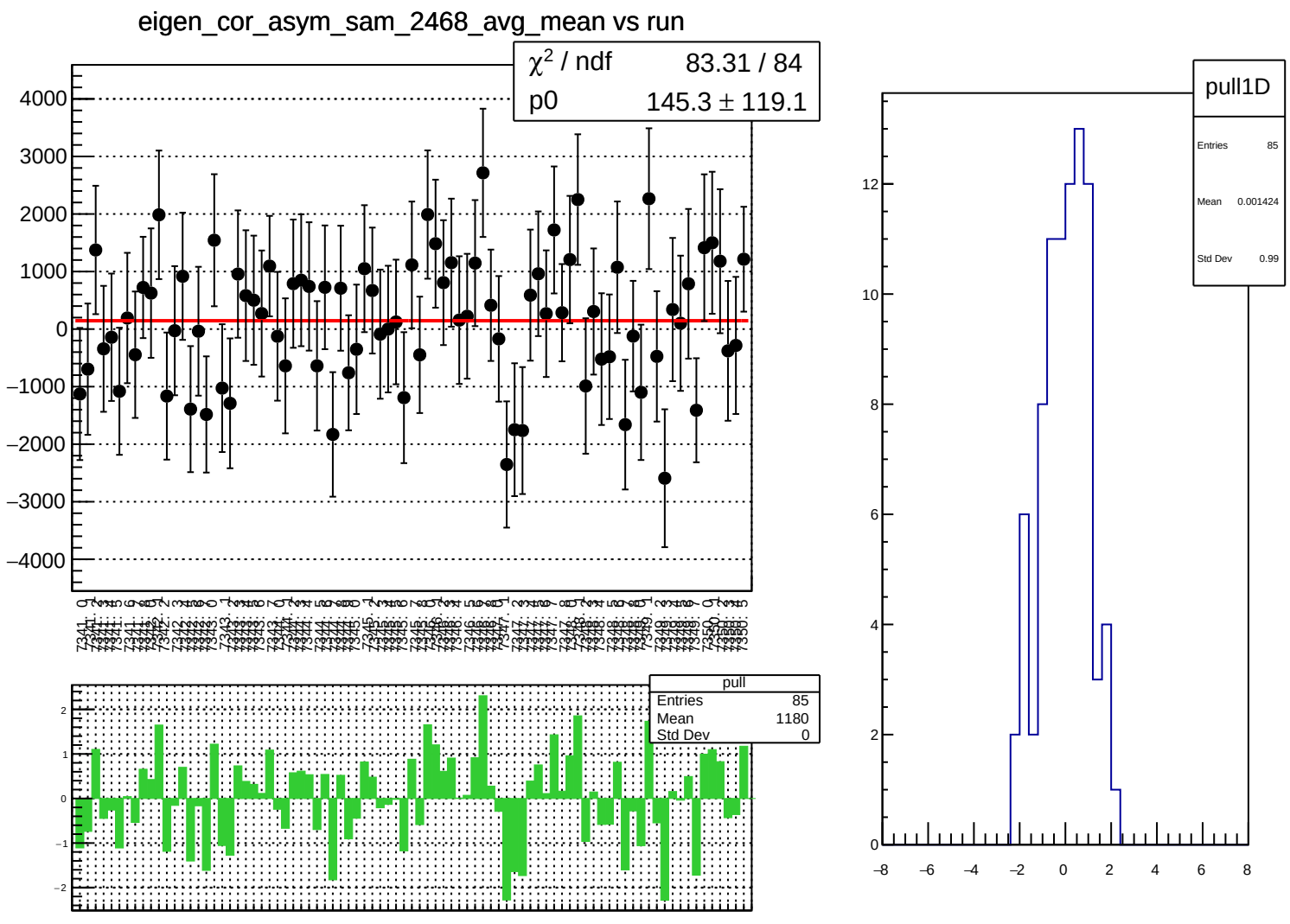

pull1D
Entries 85
Mean 0.001424
Std Dev 0.99

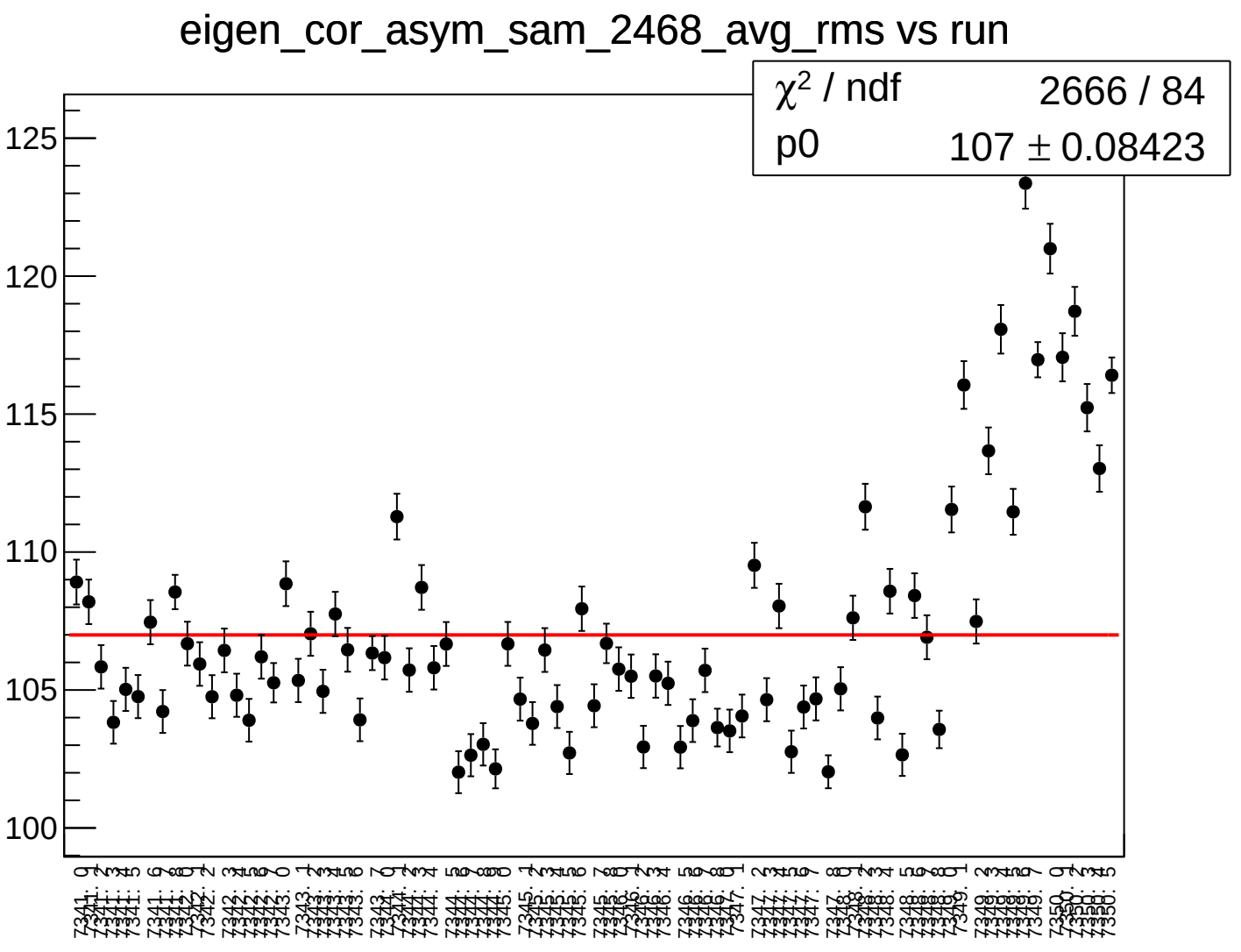

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2666 / 84
p0 107 ± 0.08423
125
120
115
110
105
100

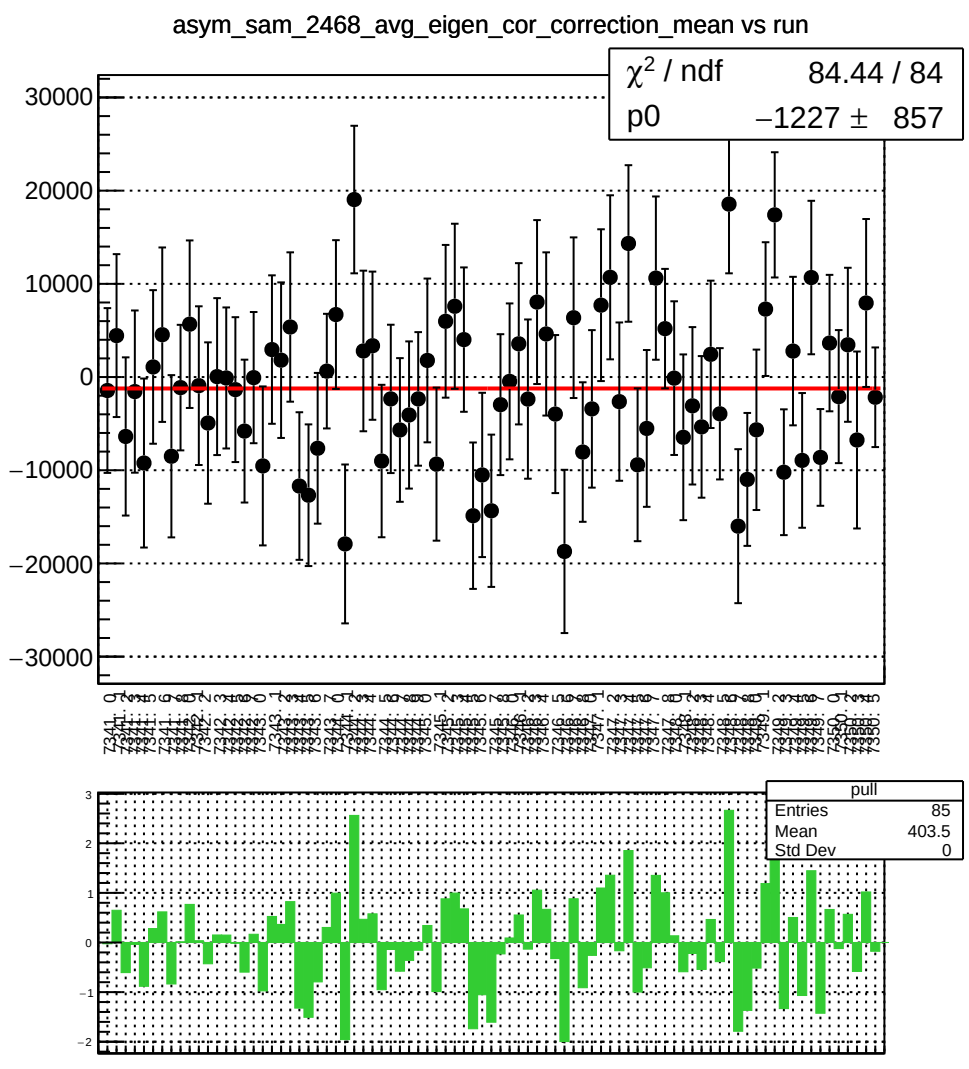

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 84.44 / 84
p0 −1227 ± 857
pull
Entries 85
Mean 403.5
Std Dev 0

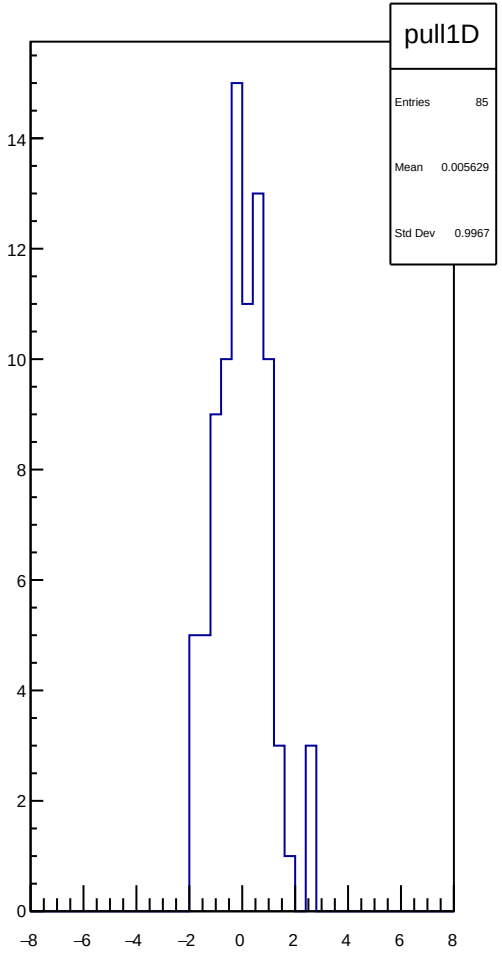

pull1D
Entries 85
Mean 0.005629
Std Dev 0.9967

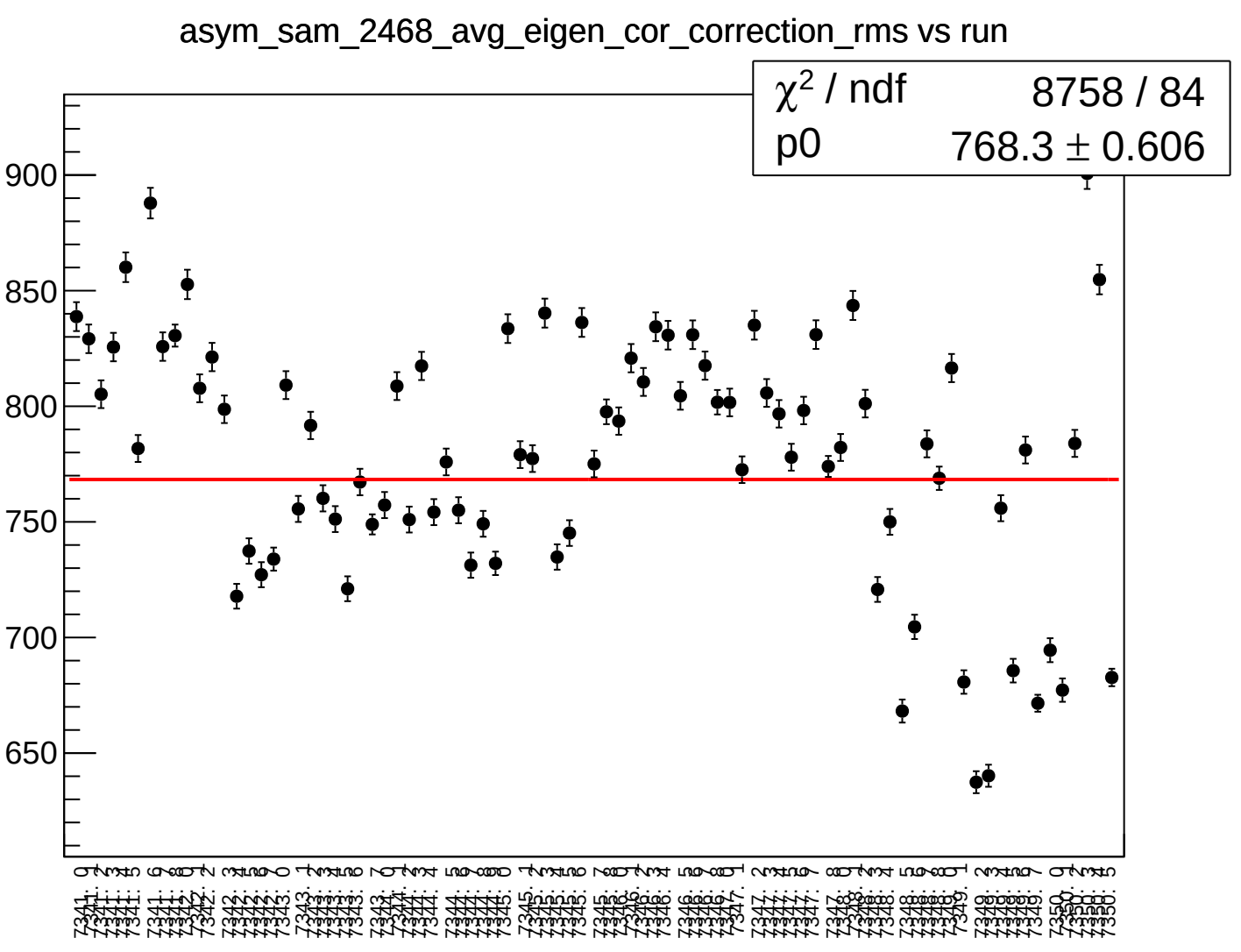

asym_sam_2468_avg_cor_correction_rms vs run
χ^2 / ndf 8758 / 84
p0 768.3 ± 0.606
900
850
800
750
700
650

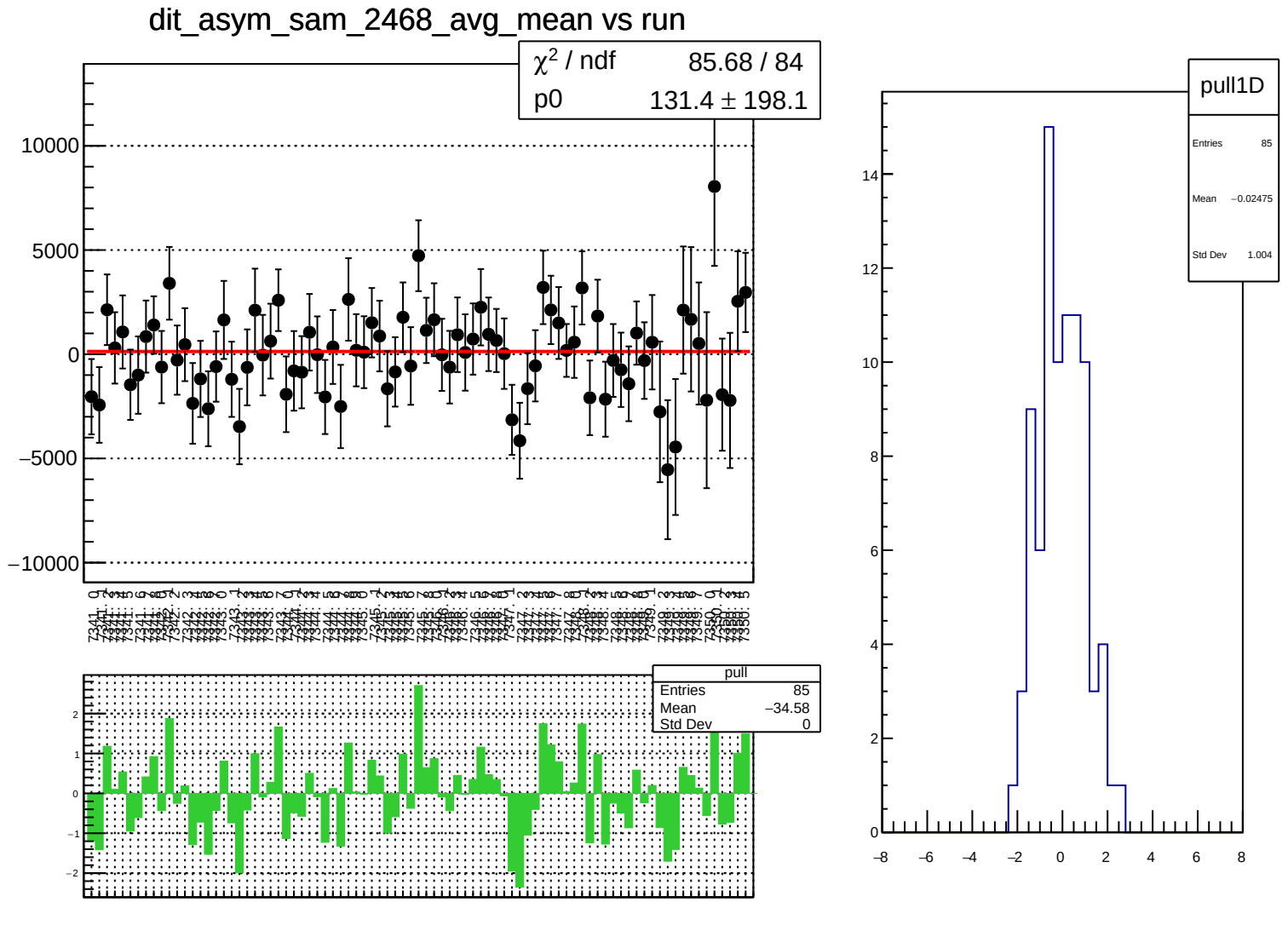

eigen_cor_asym_sam_2468_avg_mean vs run
χ^2 / ndf 83.31 / 84
p0 145.3 ± 119.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 85
Mean 1180
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.001424
Std Dev 0.99
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

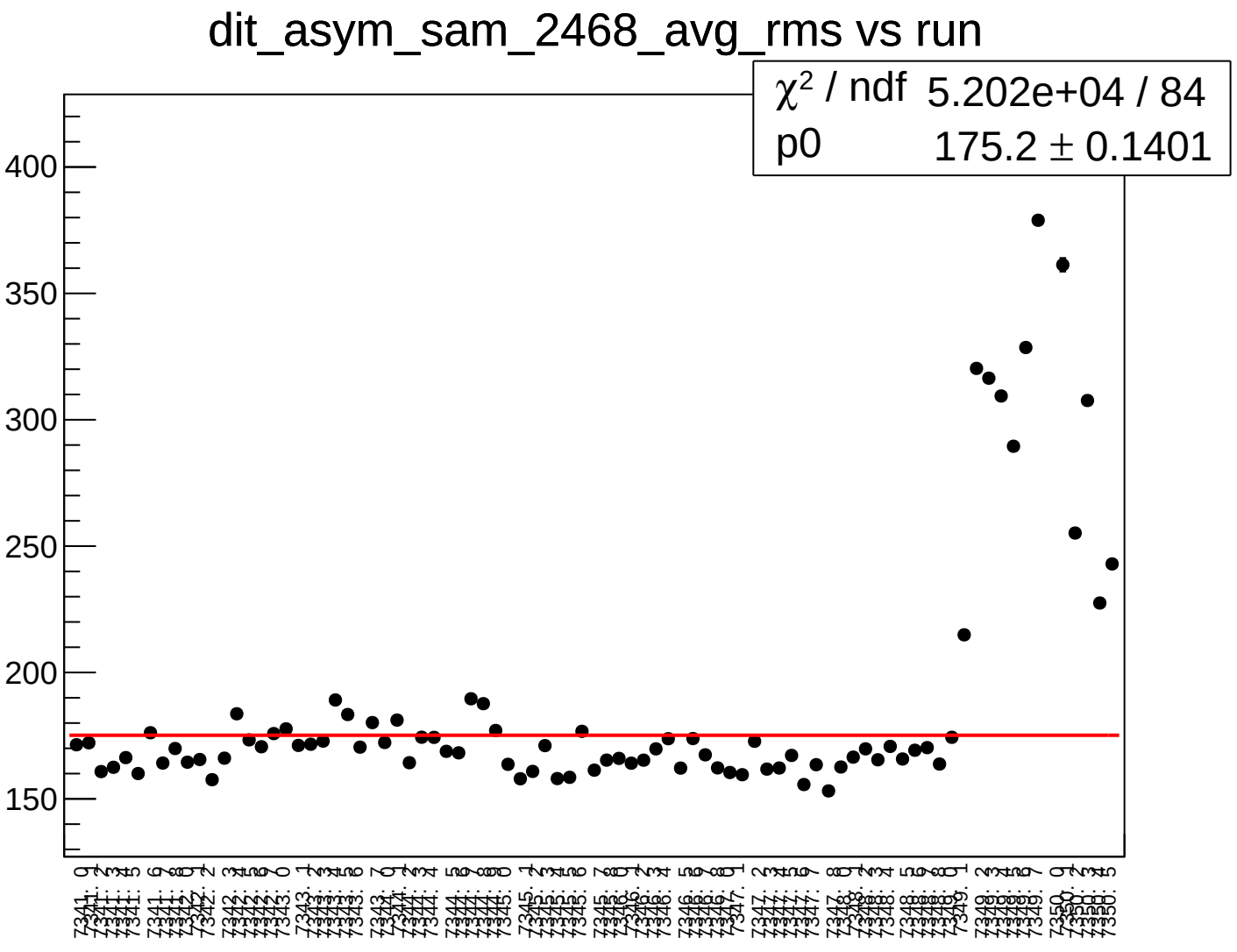

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2666 / 84
p0 107 ± 0.08423
125
120
115
110
105
100

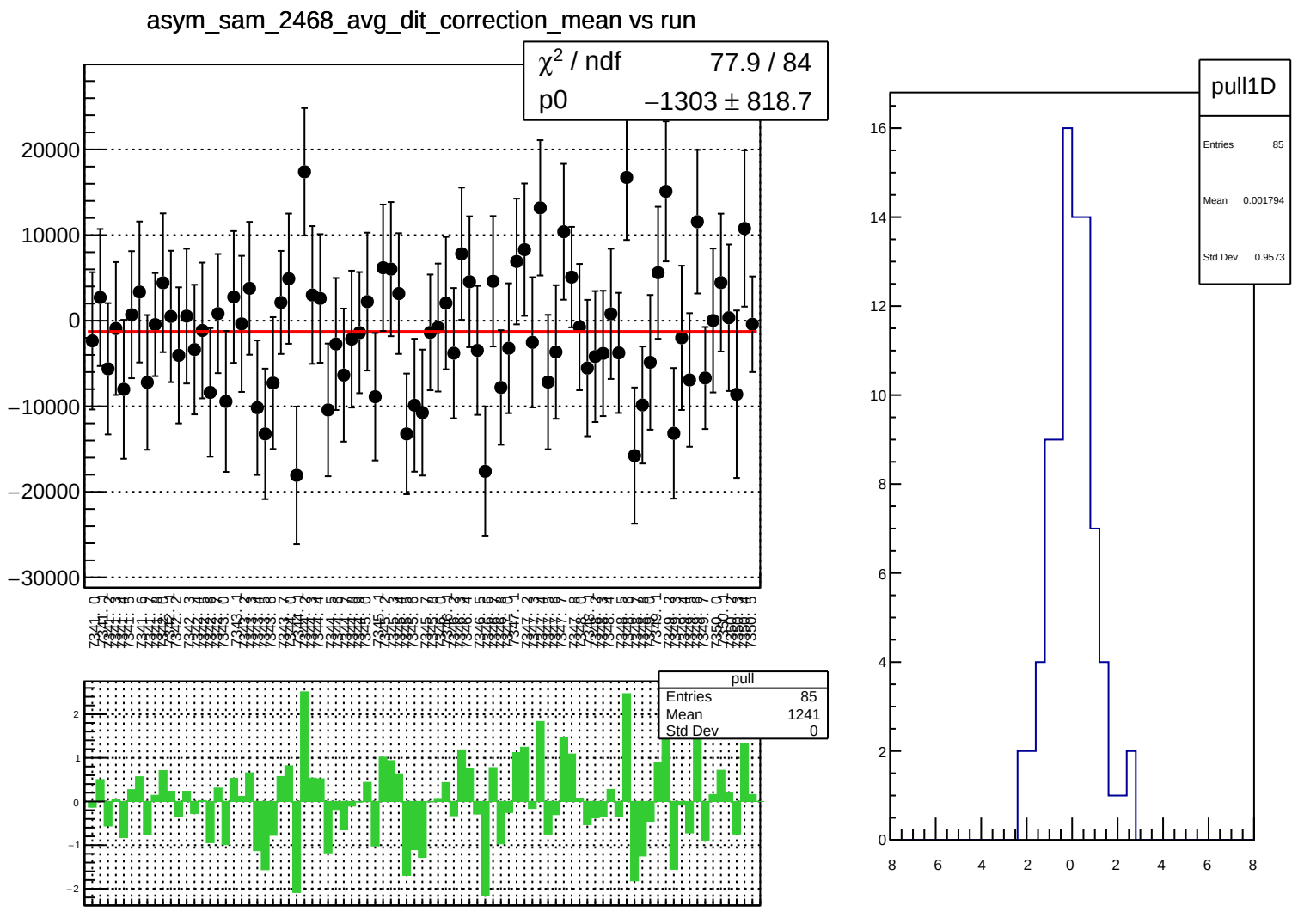

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.44 / 84
p0 −1227 ± 857
pull
Entries 85
Mean 403.5
Std Dev 0

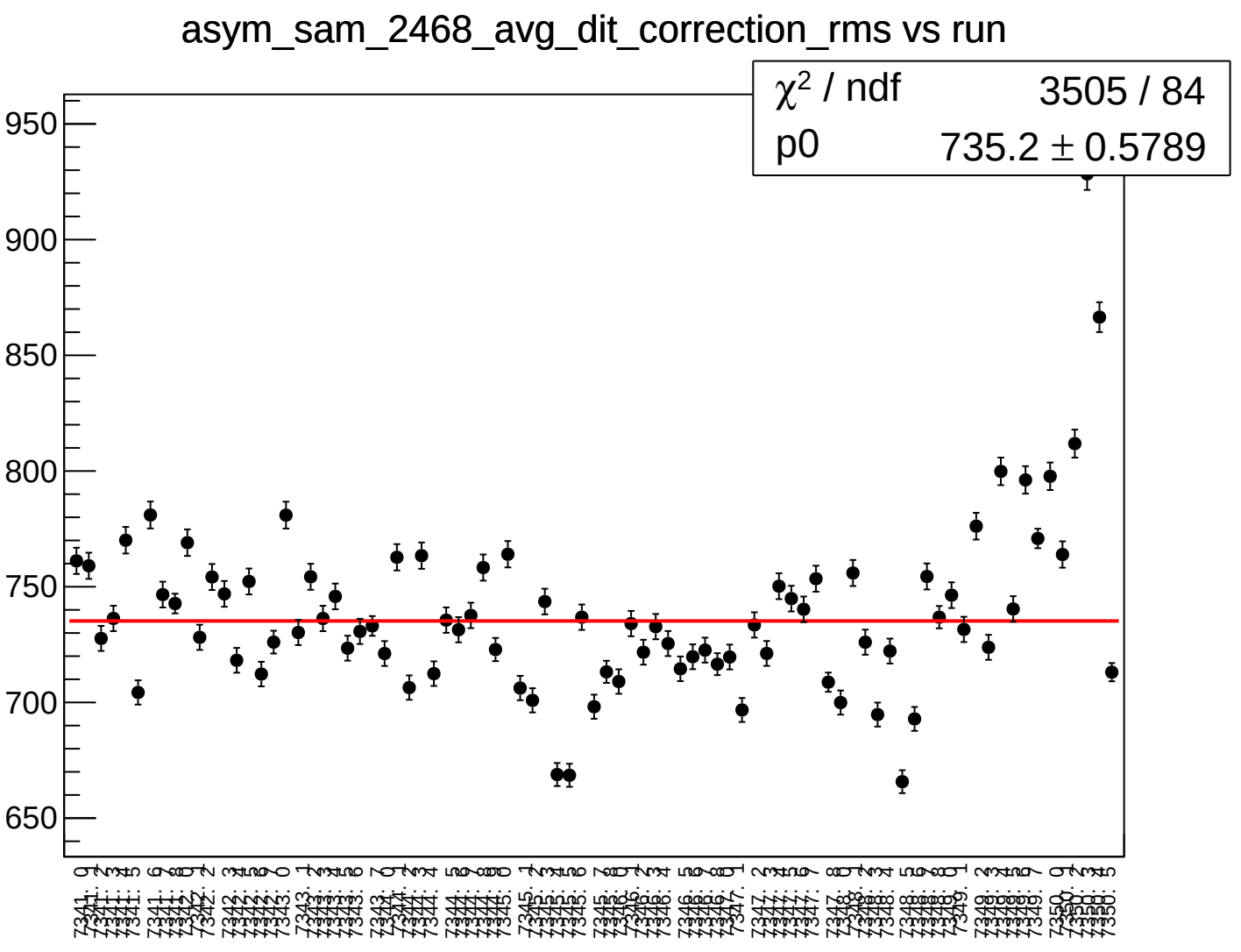

pull1D
Entries 85
Mean 0.005629
Std Dev 0.9967

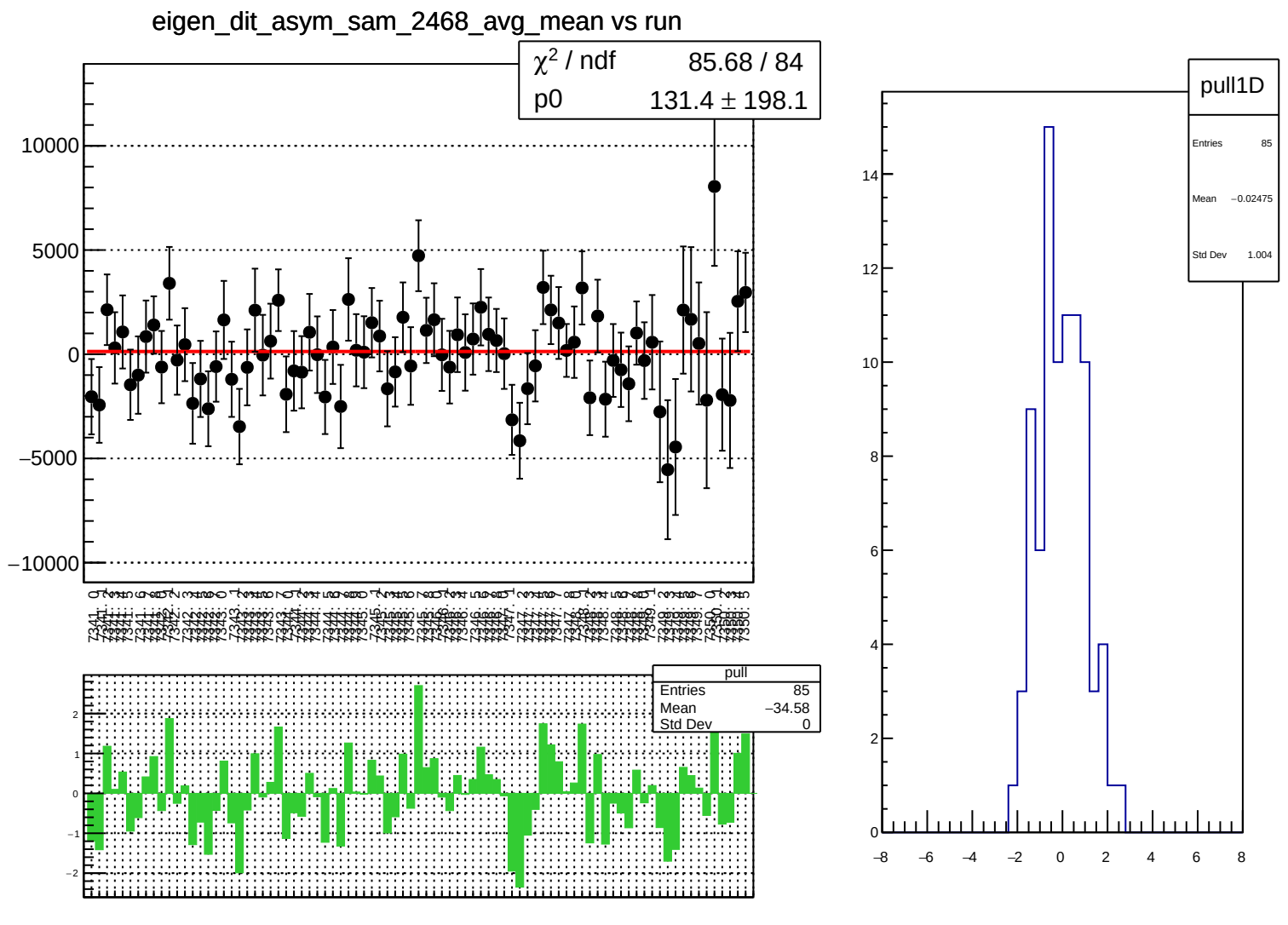

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 8758 / 84
p0 768.3 ± 0.606
900
850
800
750
700
650

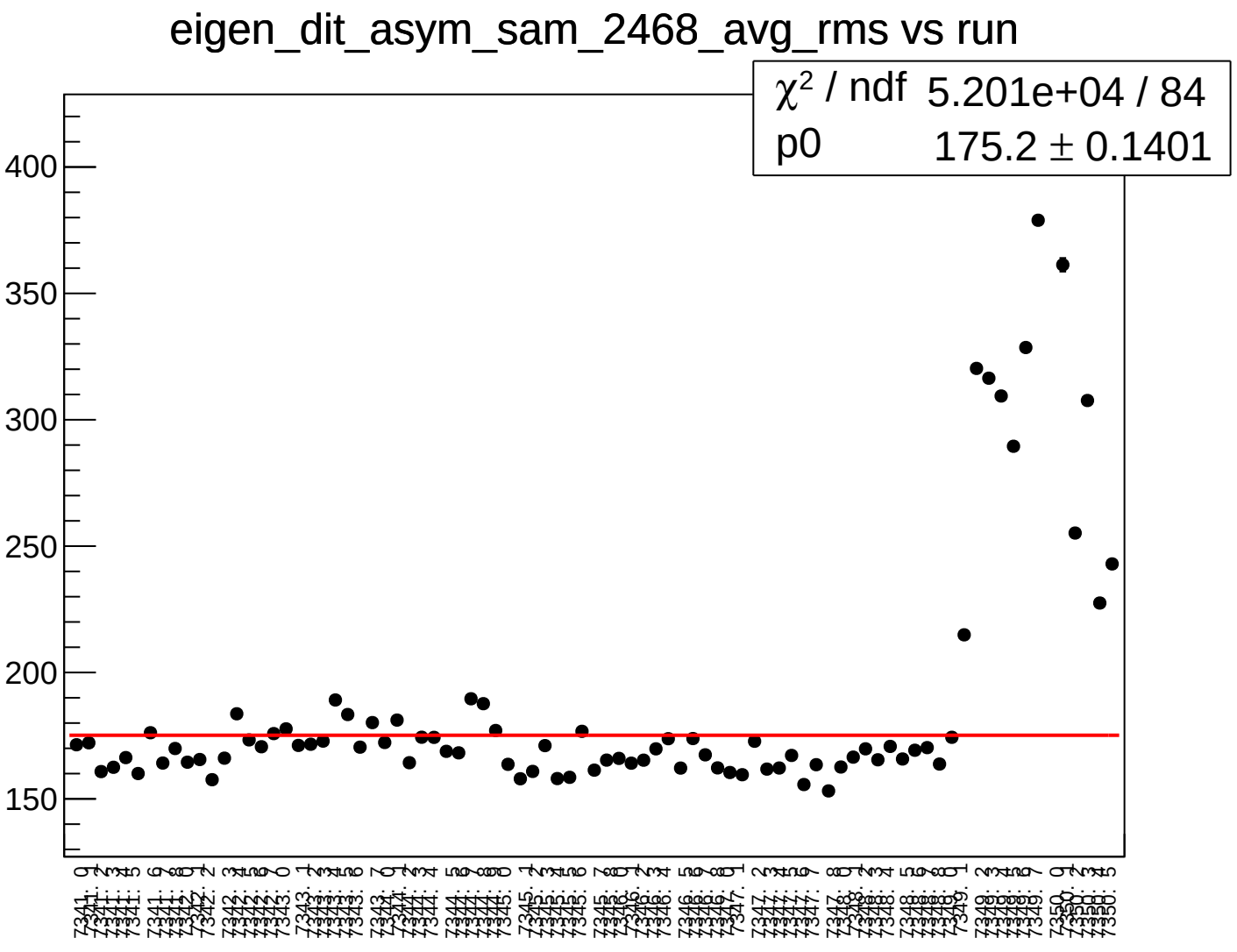

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 85.68 / 84
p0 131.4 ± 198.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −34.58
Std Dev 0
pull1D
Entries 85
Mean −0.02475
Std Dev 1.004

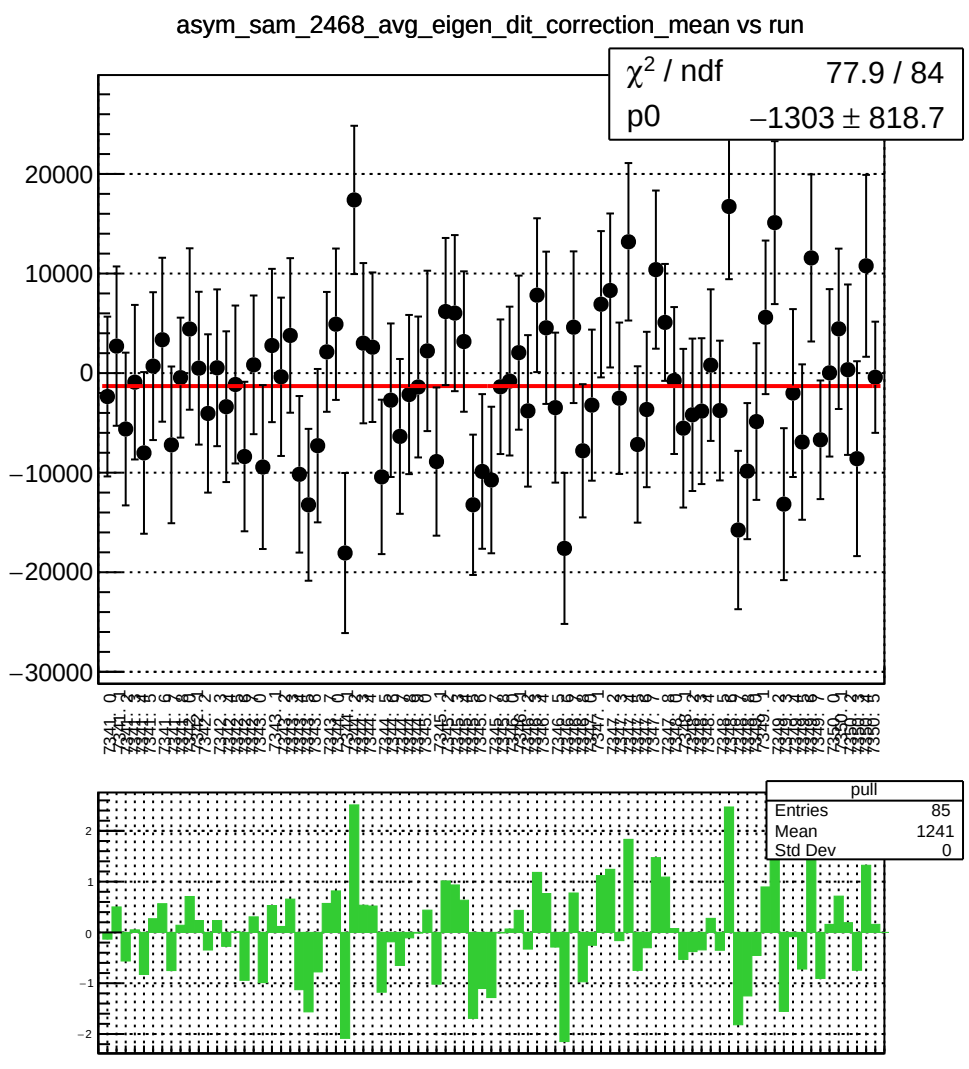

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 5.202e+04 / 84
p0 175.2 ± 0.1401
400
350
300
250
200
150

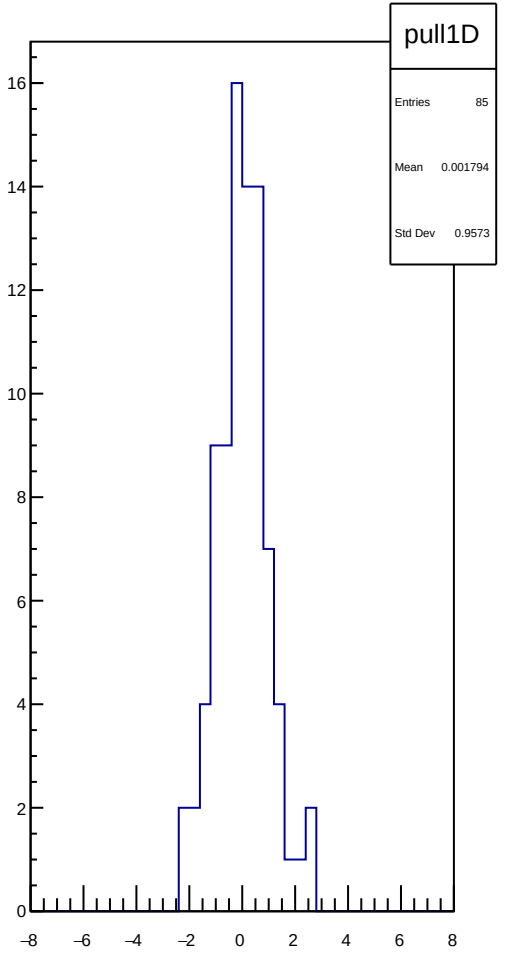

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 77.9 / 84
p0 −1303 ± 818.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 1241
Std Dev 0
pull1D
Entries 85
Mean 0.001794
Std Dev 0.9573
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

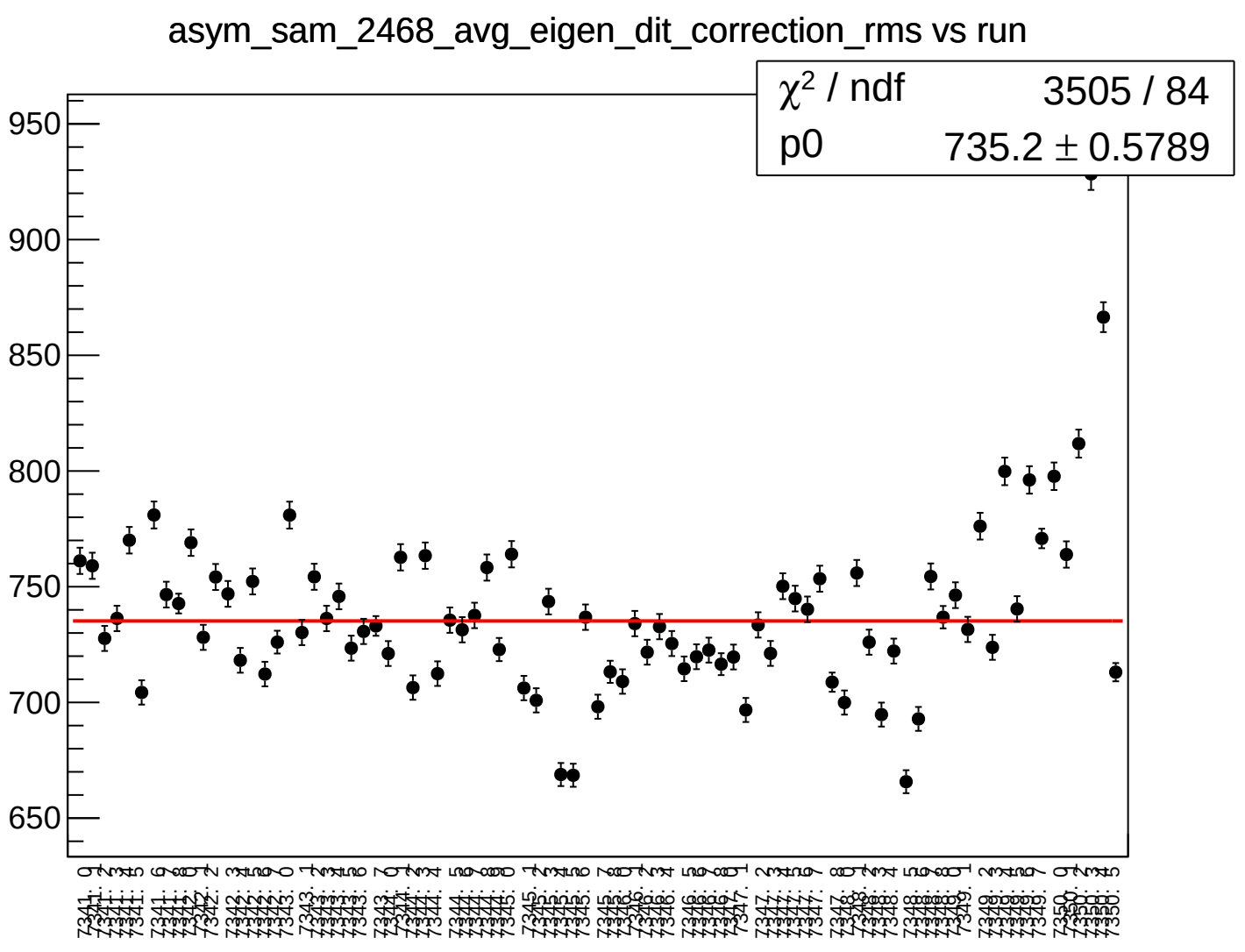

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3505 / 84
p0 735.2 ± 0.5789
950
900
850
800
750
700
650

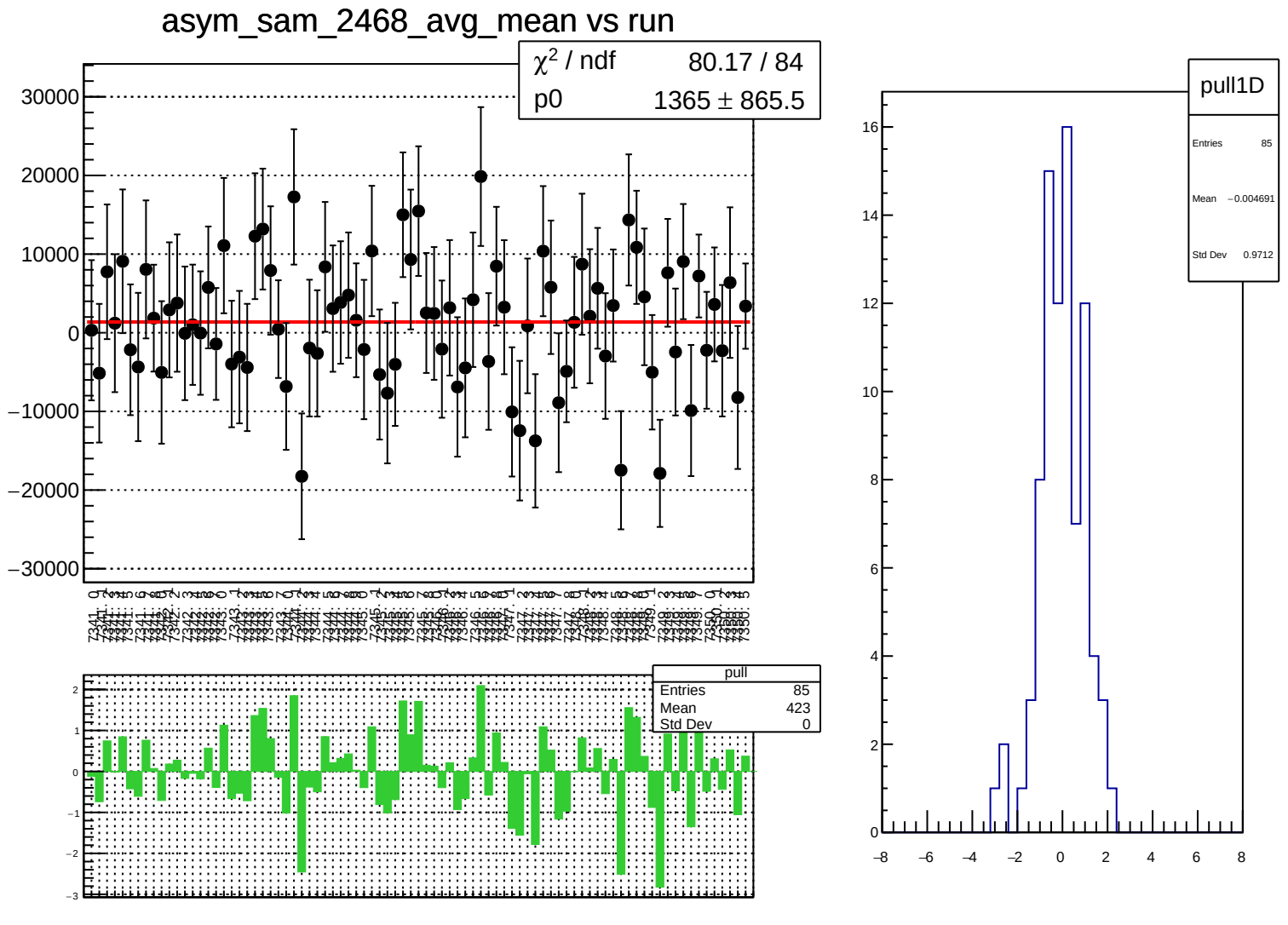

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 85.68 / 84
p0 131.4 ± 198.1
10000
5000
0
−5000
−10000
pull
Entries 85
Mean −34.58
Std Dev 0
pull1D
Entries 85
Mean −0.02475
Std Dev 1.004

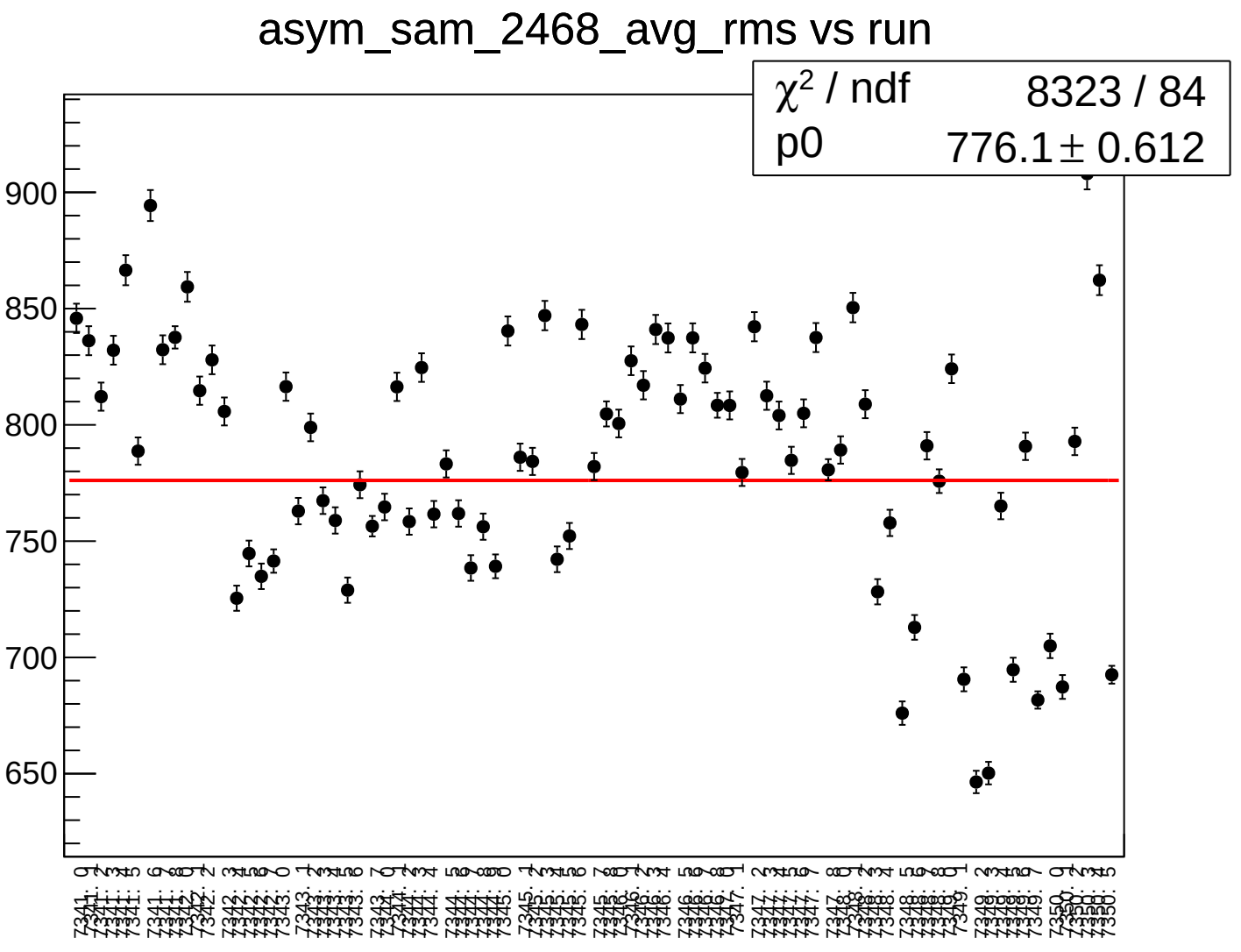

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 5.201e+04 / 84
p0 175.2 ± 0.1401
400
350
300
250
200
150

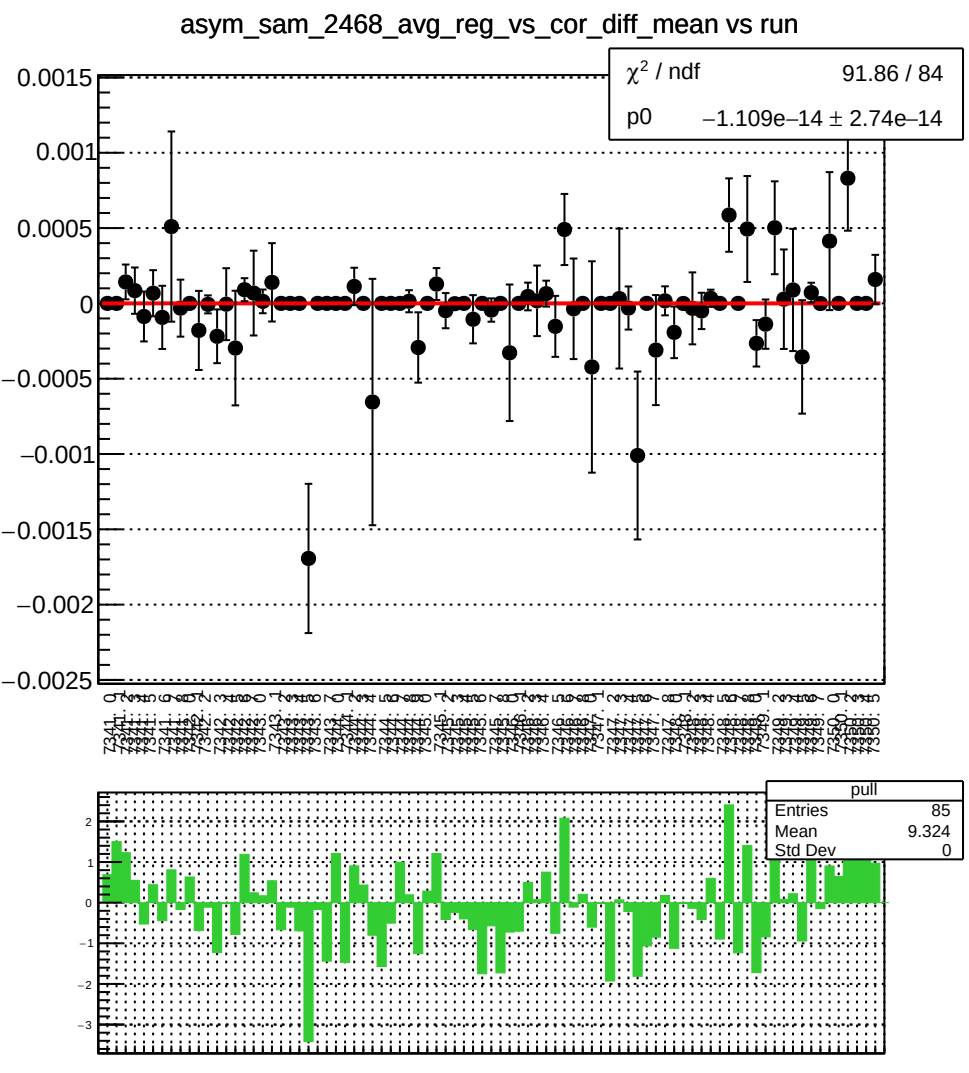

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.9 / 84
p0 −1303 ± 818.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 1241
Std Dev 0
2
1
0
−1
−2

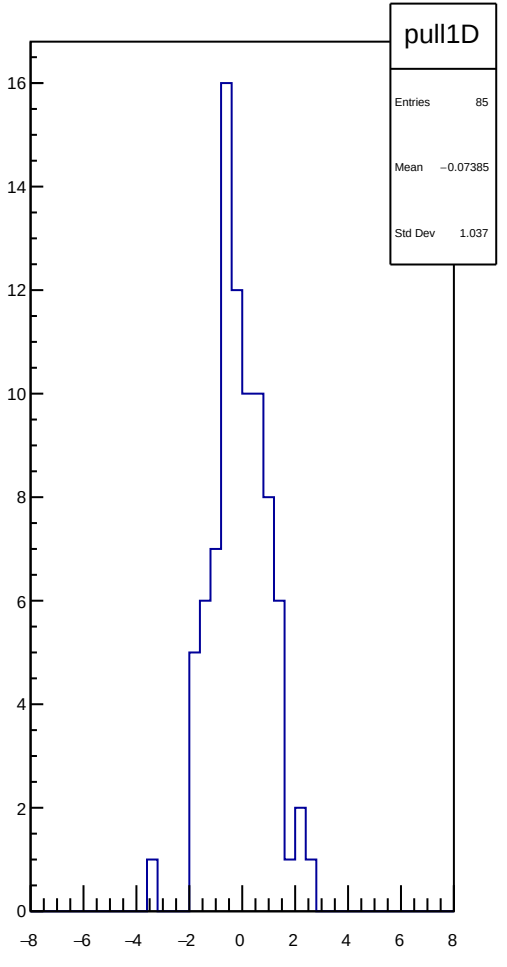

pull1D
Entries 85
Mean 0.001794
Std Dev 0.9573
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

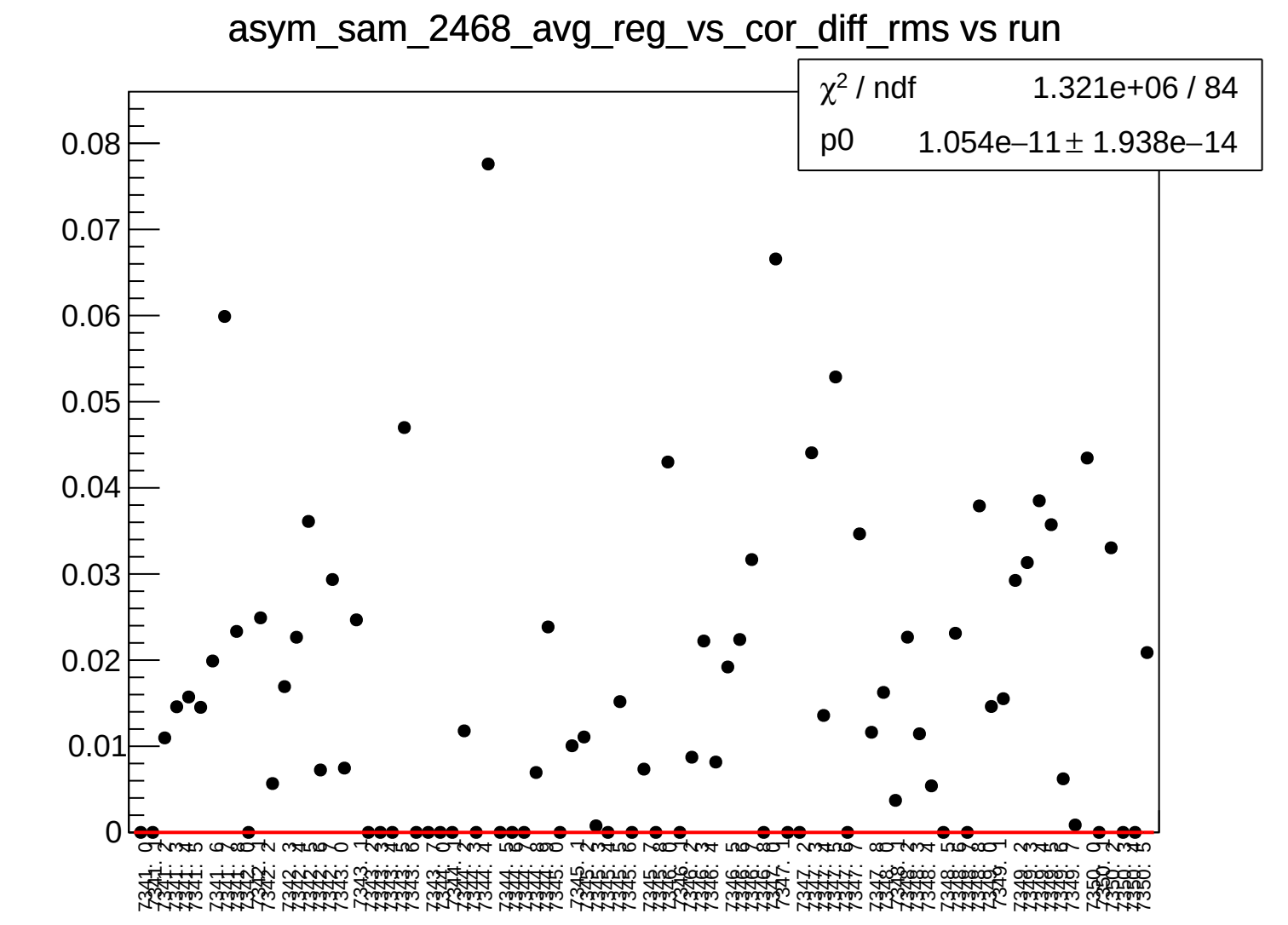

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 3505 / 84
p0 735.2 ± 0.5789
950
900
850
800
750
700
650

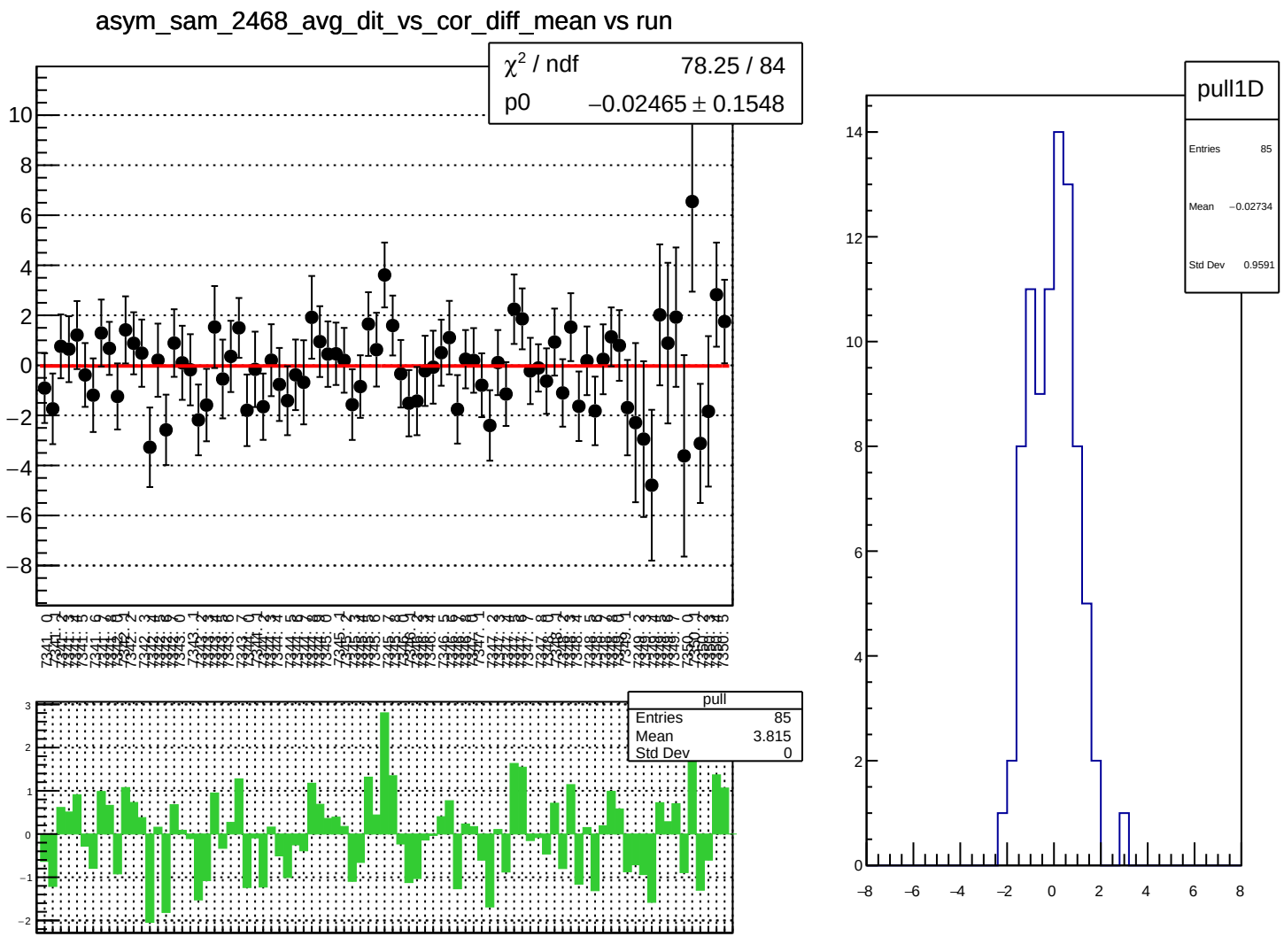

asym_sam_2468_avg_mean vs run
χ² / ndf 80.17 / 84
p0 1365 ± 865.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 85
Mean 423
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.004691
Std Dev 0.9712
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

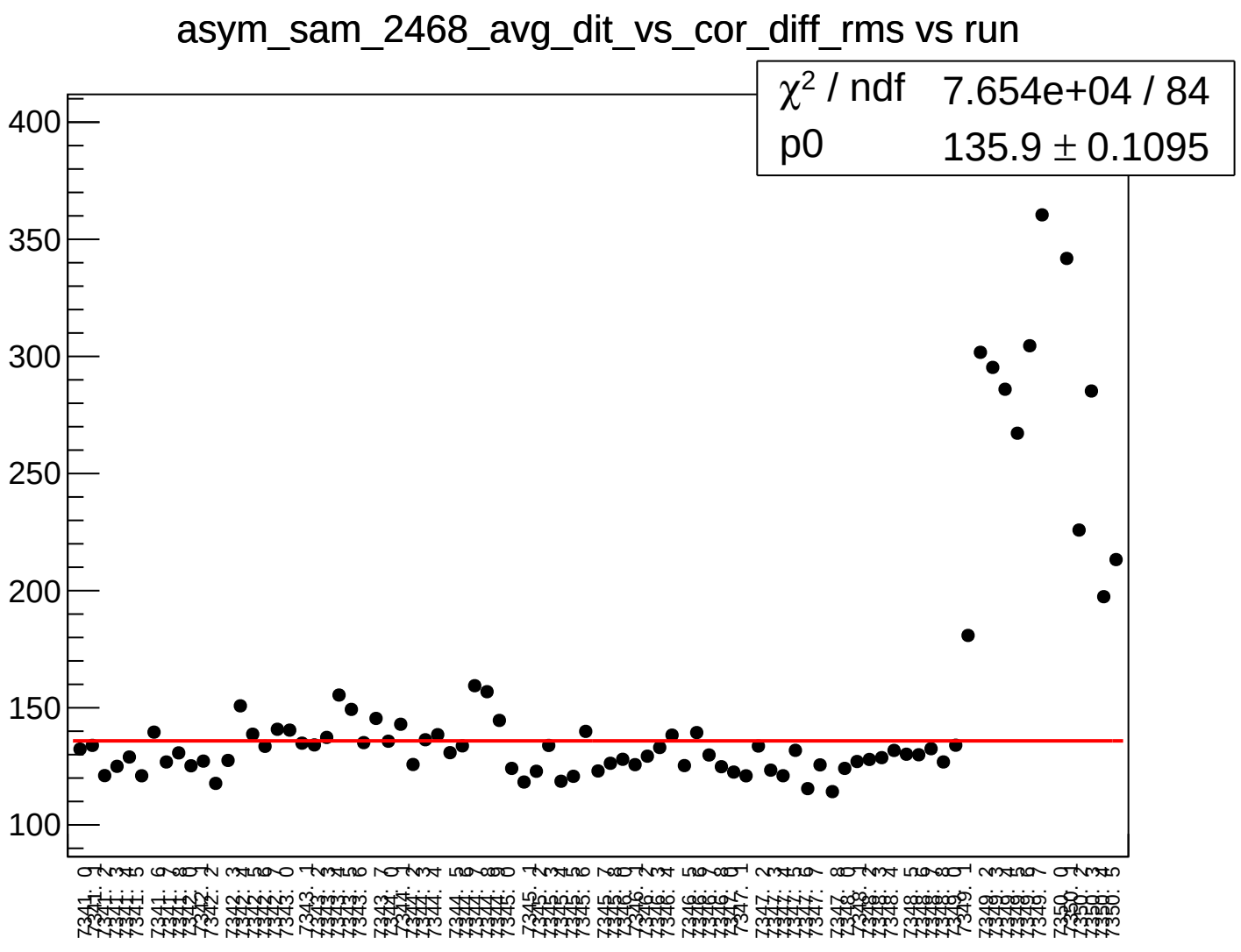

asym_sam_2468_avg_rms vs run
χ^2 / ndf 8323 / 84
p0 776.1 ± 0.612
900
850
800
750
700
650

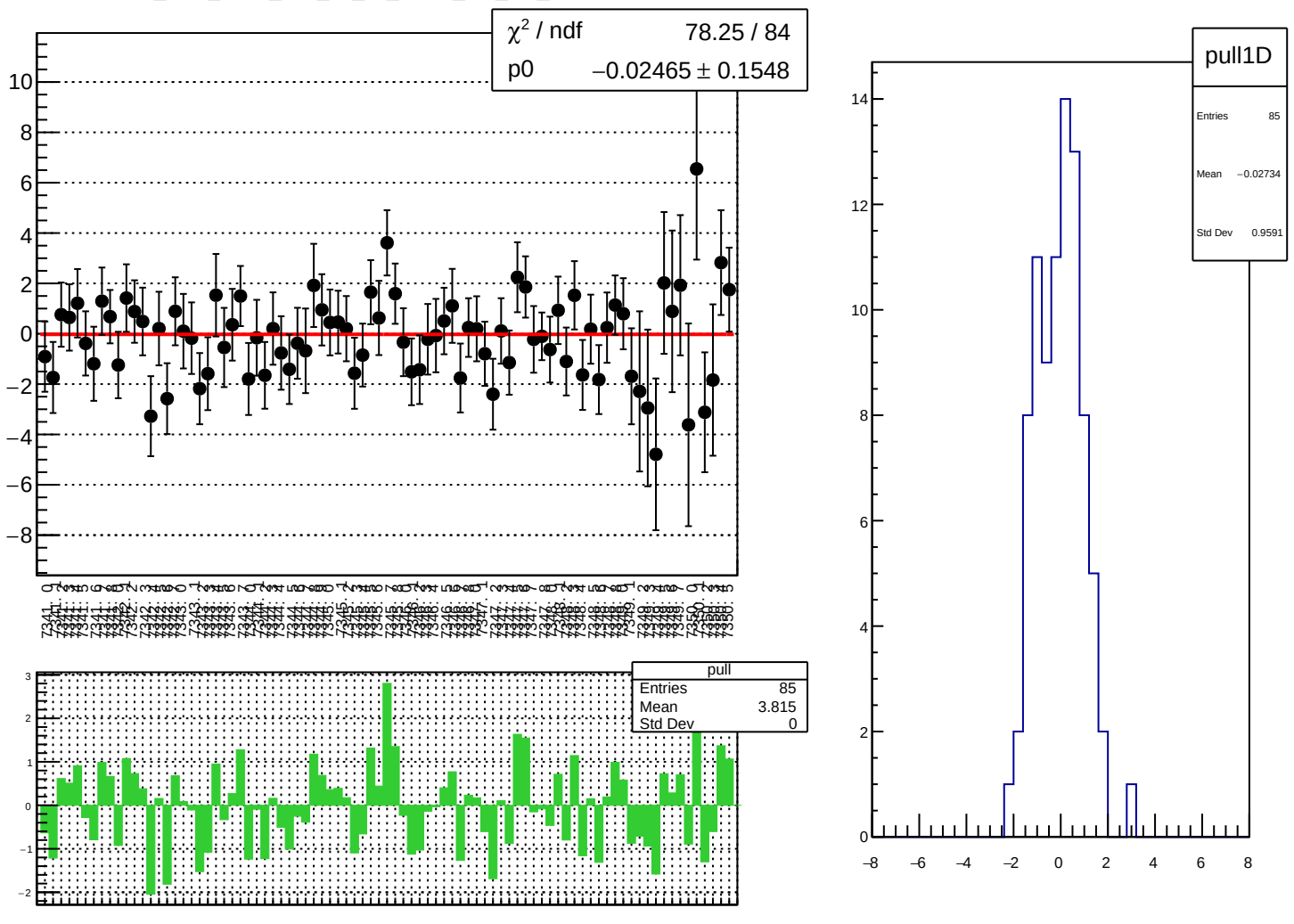

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.86 / 84
p0 −1.109e−14 ± 2.74e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 85
Mean 9.324
Std Dev 0
2
1
0
−1
−2
−3

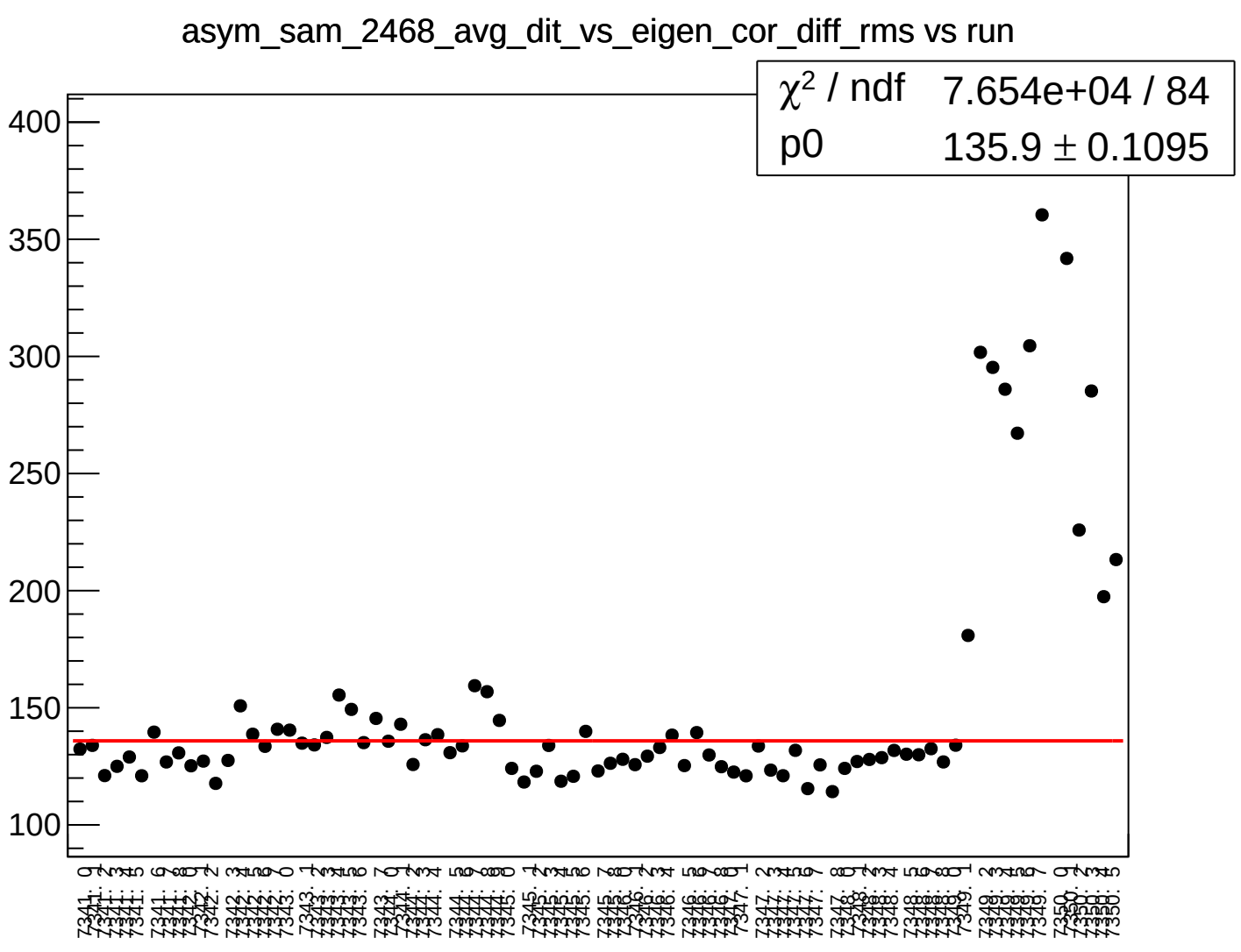

pull1D
Entries 85
Mean −0.07385
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

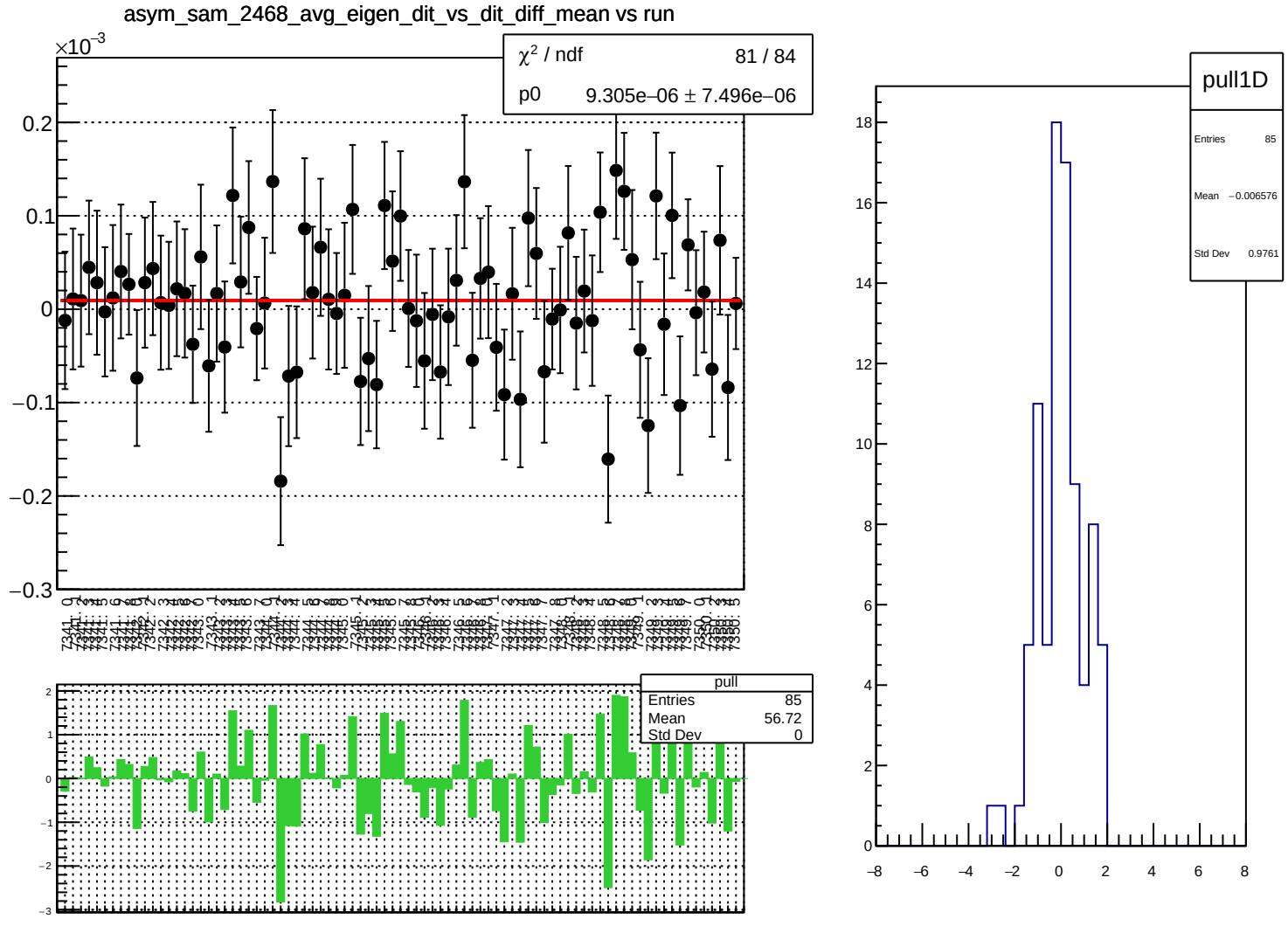

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.321e+06 / 84
p0 1.054e−11 ± 1.938e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

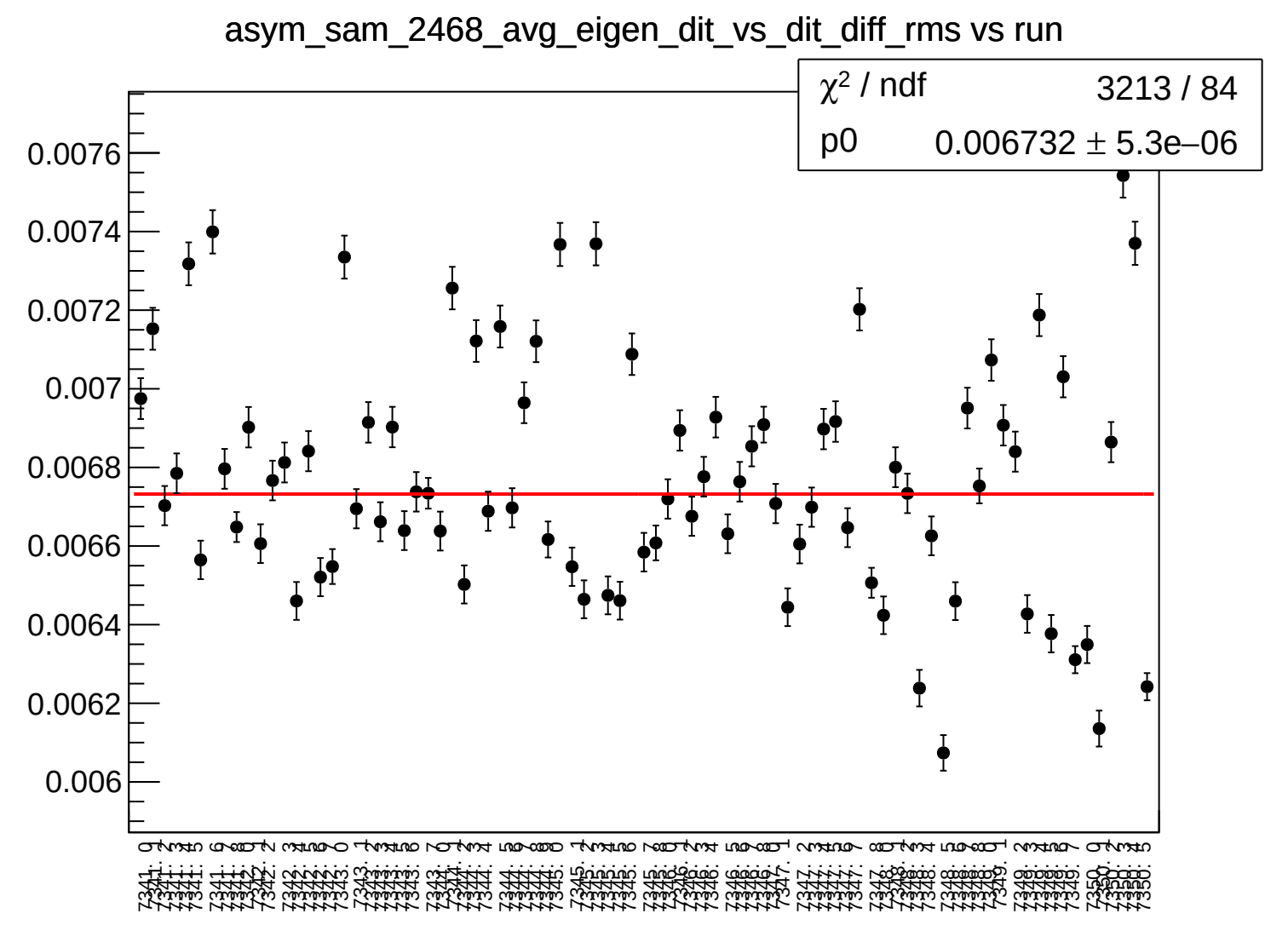

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.25 / 84
p0 −0.02465 ± 0.1548
pull
Entries 85
Mean 3.815
Std Dev 0
pull1D
Entries 85
Mean −0.02734
Std Dev 0.9591

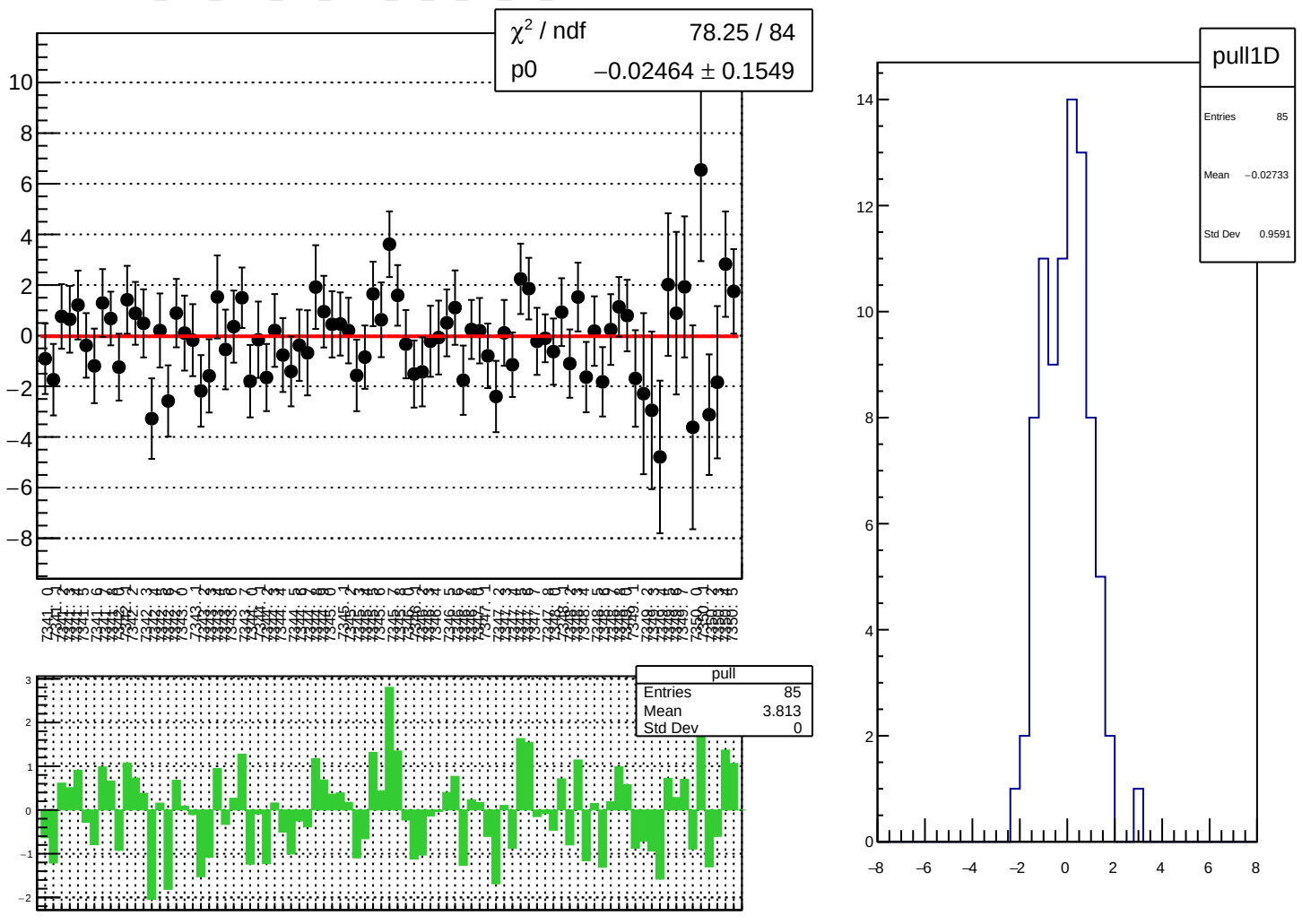

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.654e+04 / 84
p0 135.9 ± 0.1095
400
350
300
250
200
150
100

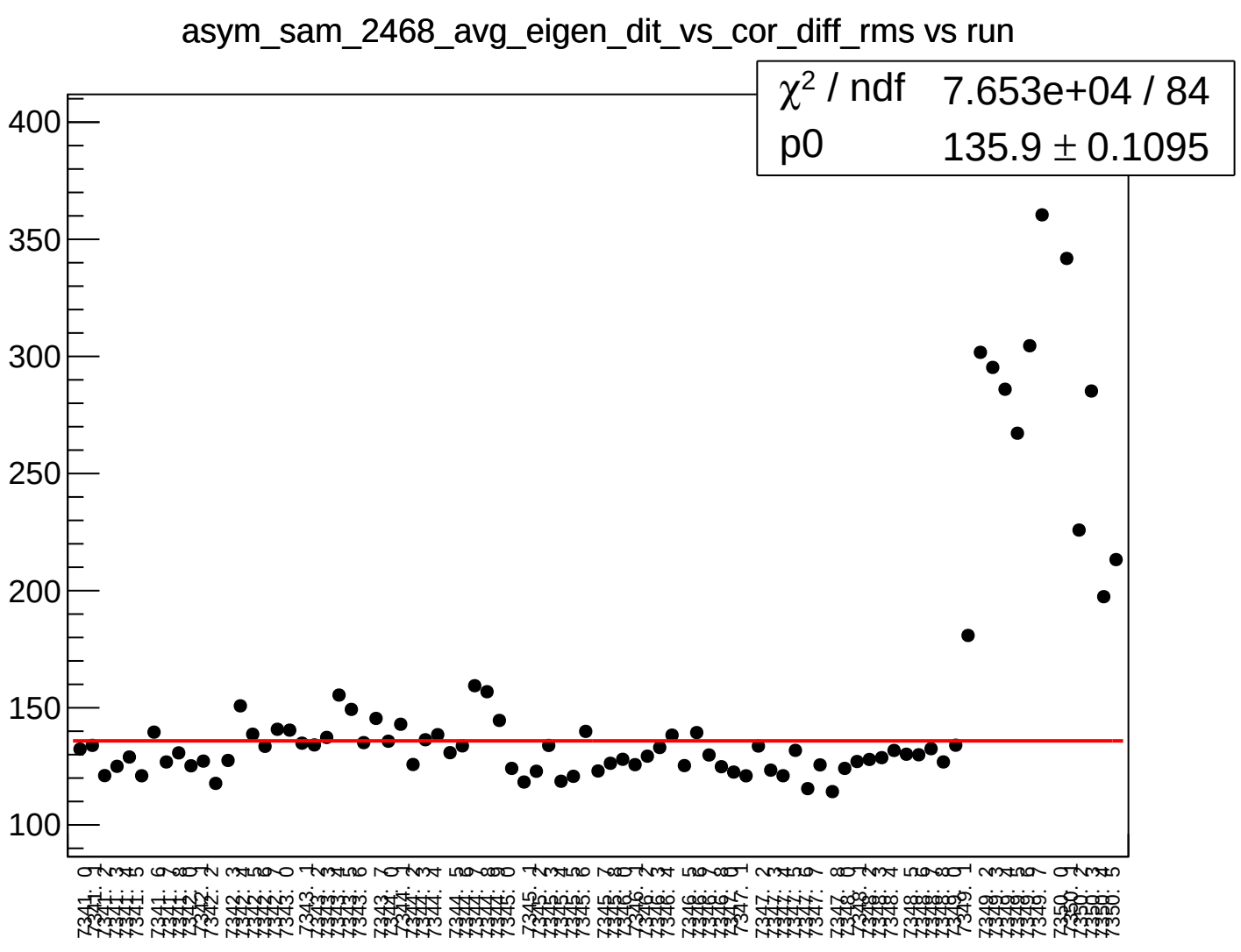

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.25 / 84
p0 −0.02465 ± 0.1548
pull
Entries 85
Mean 3.815
Std Dev 0
pull1D
Entries 85
Mean −0.02734
Std Dev 0.9591

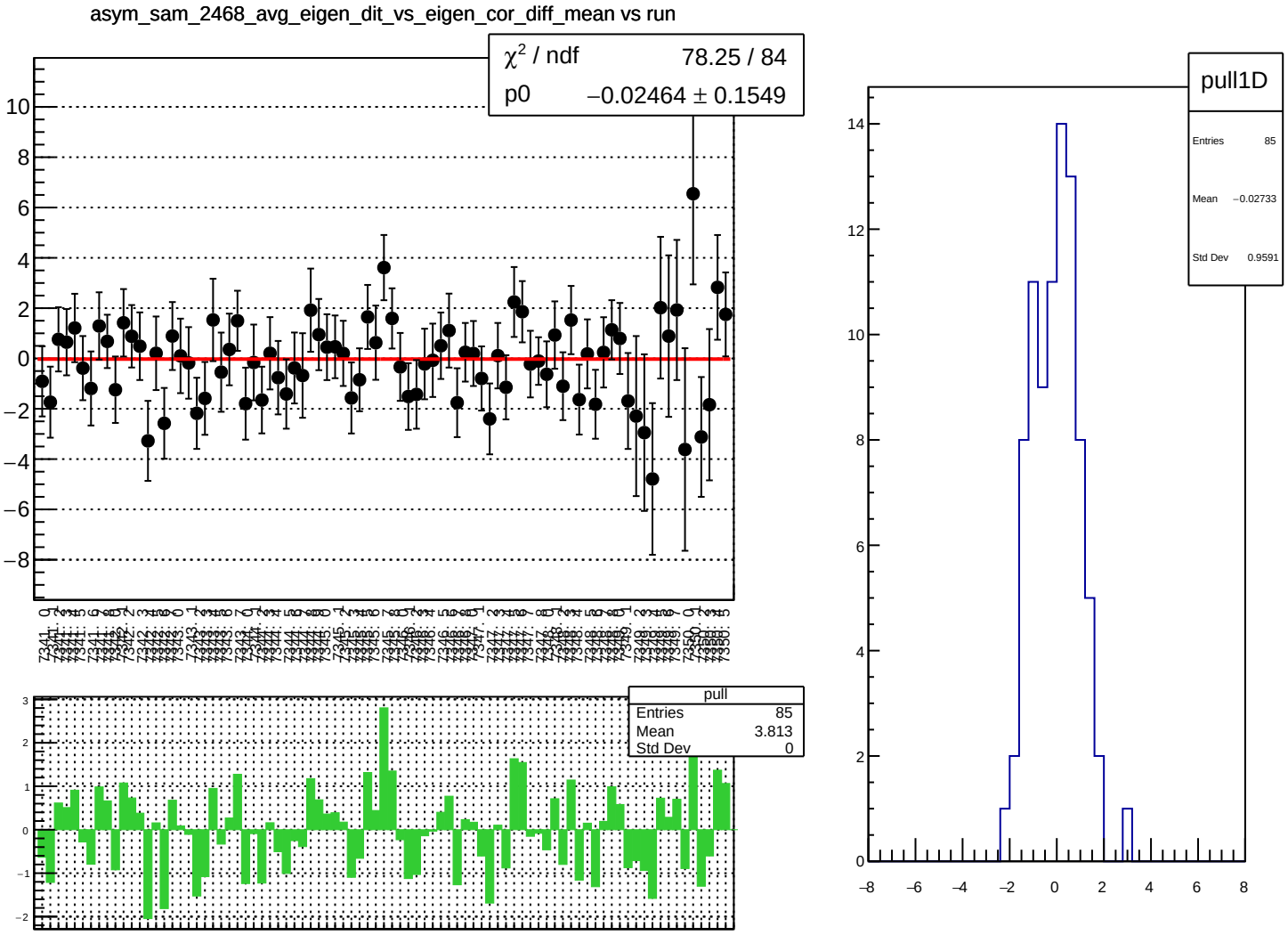

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.654e+04 / 84
p0 135.9 ± 0.1095
400
350
300
250
200
150
100

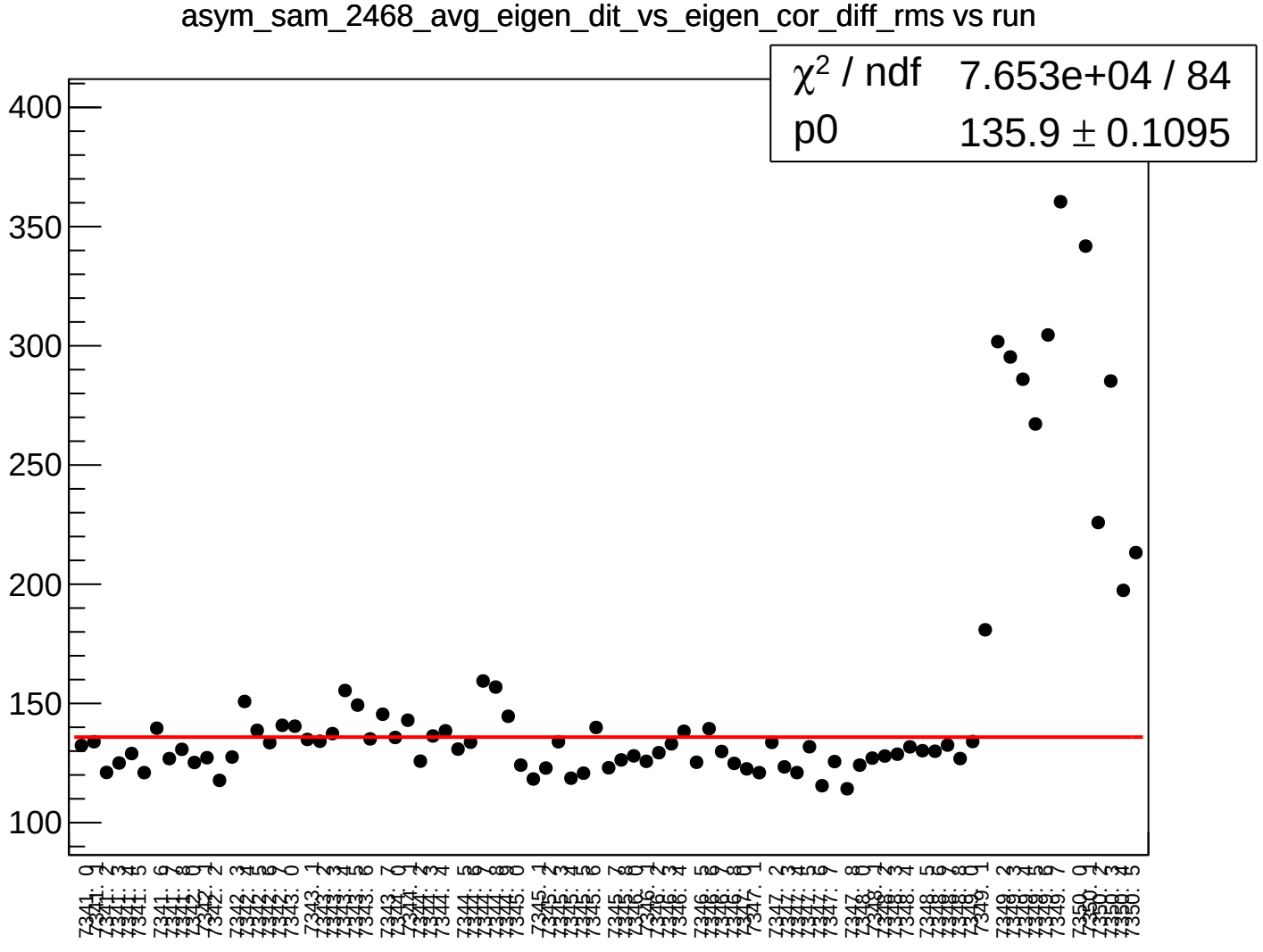

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81 / 84
p0 9.305e−06 ± 7.496e−06
pull
Entries 85
Mean 56.72
Std Dev 0
pull1D
Entries 85
Mean −0.006576
Std Dev 0.9761

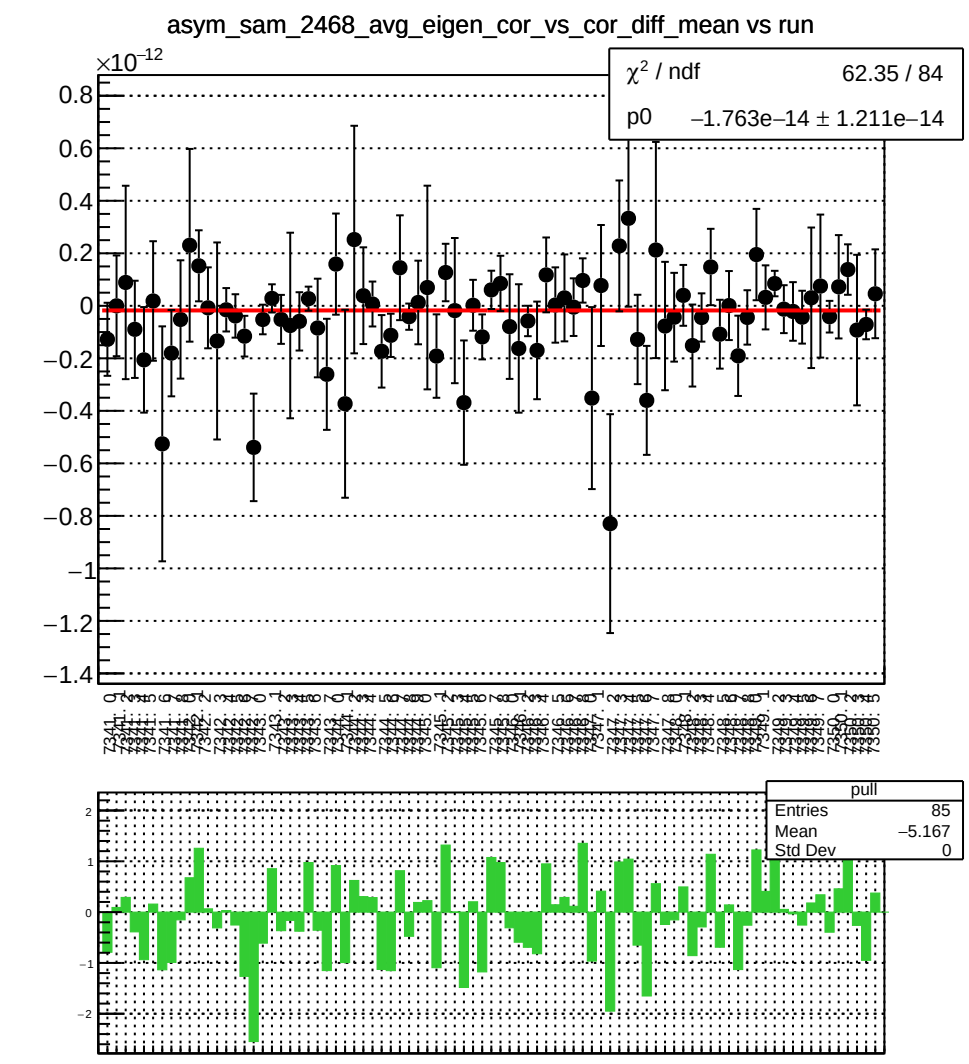

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3213 / 84
p0 0.006732 ± 5.3e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

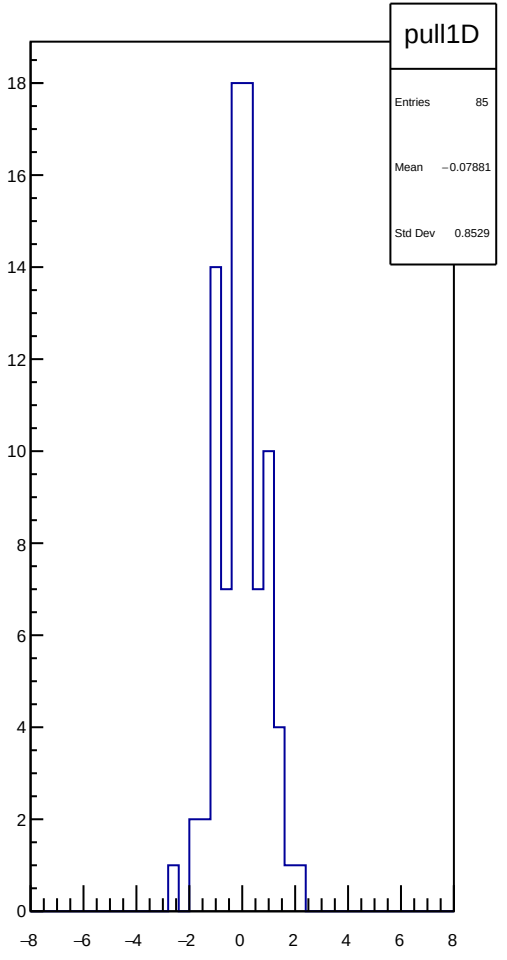

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.25 / 84
p0 −0.02464 ± 0.1549
pull
Entries 85
Mean 3.813
Std Dev 0
pull1D
Entries 85
Mean −0.02733
Std Dev 0.9591

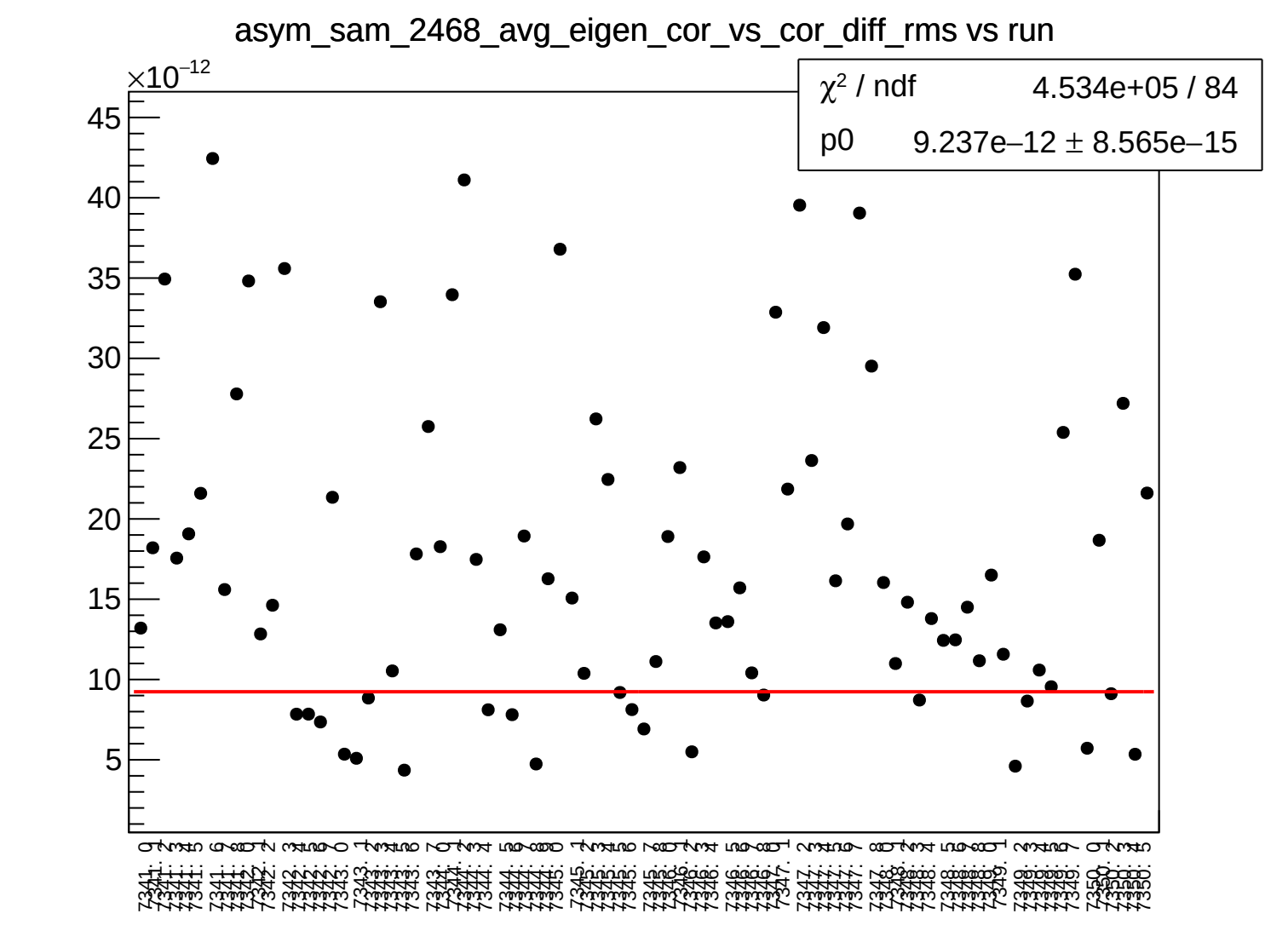

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.653e+04 / 84
p0 135.9 ± 0.1095
400
350
300
250
200
150
100

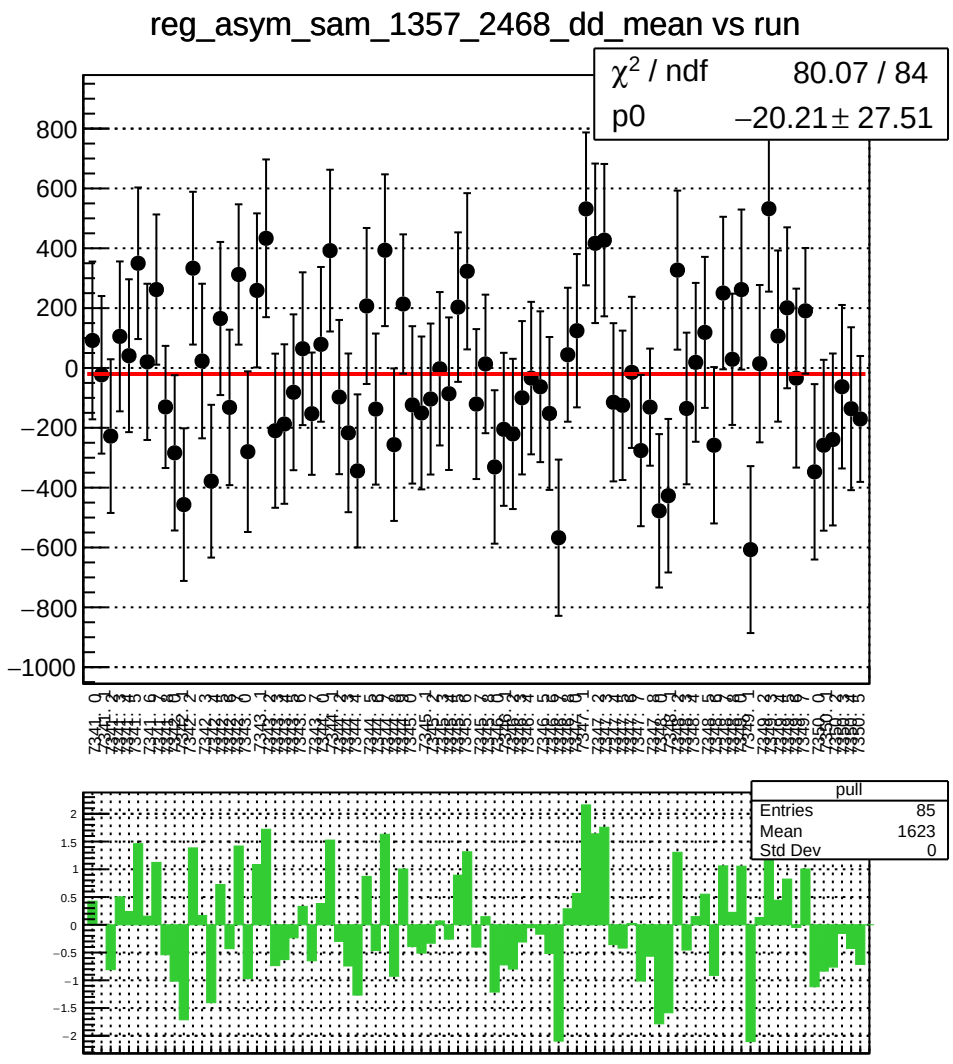

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.25 / 84
p0 −0.02464 ± 0.1549
pull
Entries 85
Mean 3.813
Std Dev 0
pull1D
Entries 85
Mean −0.02733
Std Dev 0.9591

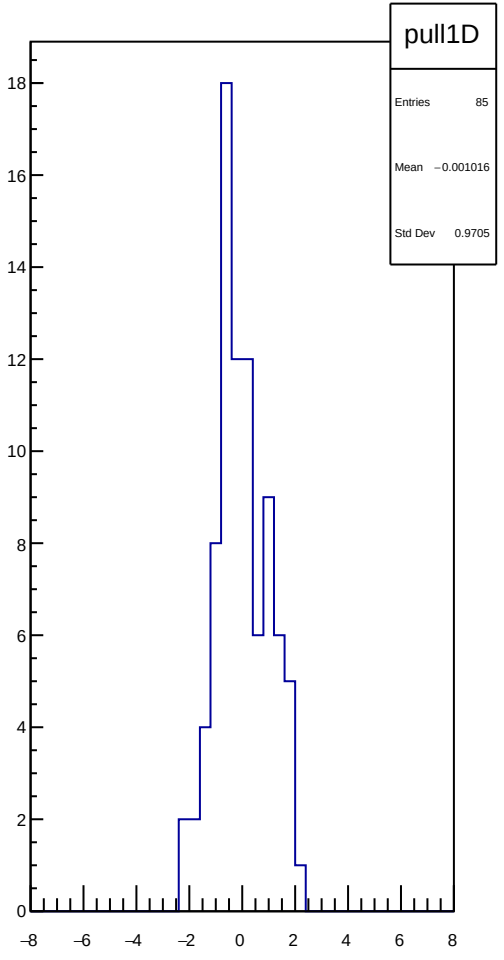

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.653e+04 / 84
p0 135.9 ± 0.1095
400
350
300
250
200
150
100

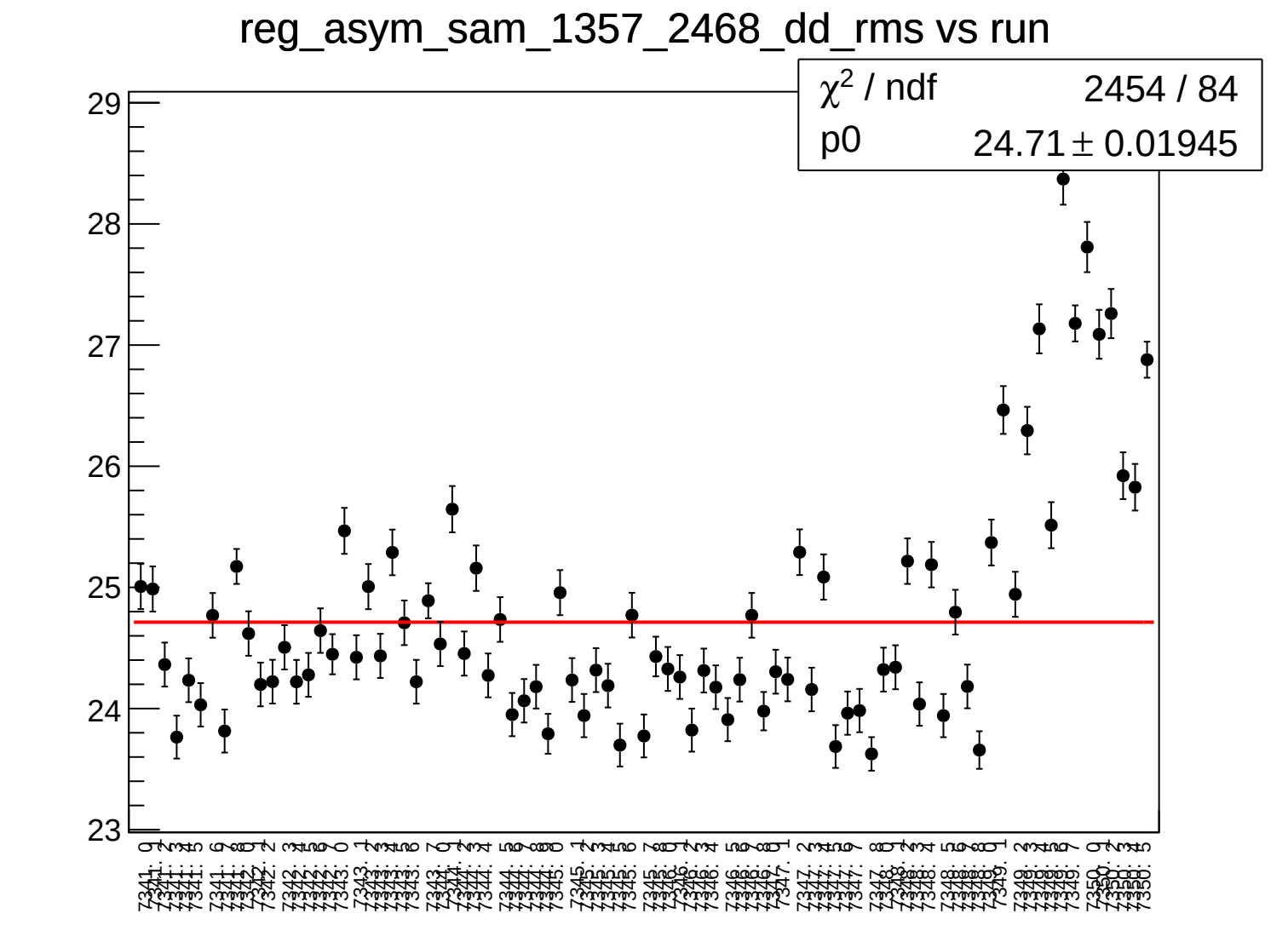

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.35 / 84
p0 −1.763e−14 ± 1.211e−14
pull
Entries 85
Mean −5.167
Std Dev 0

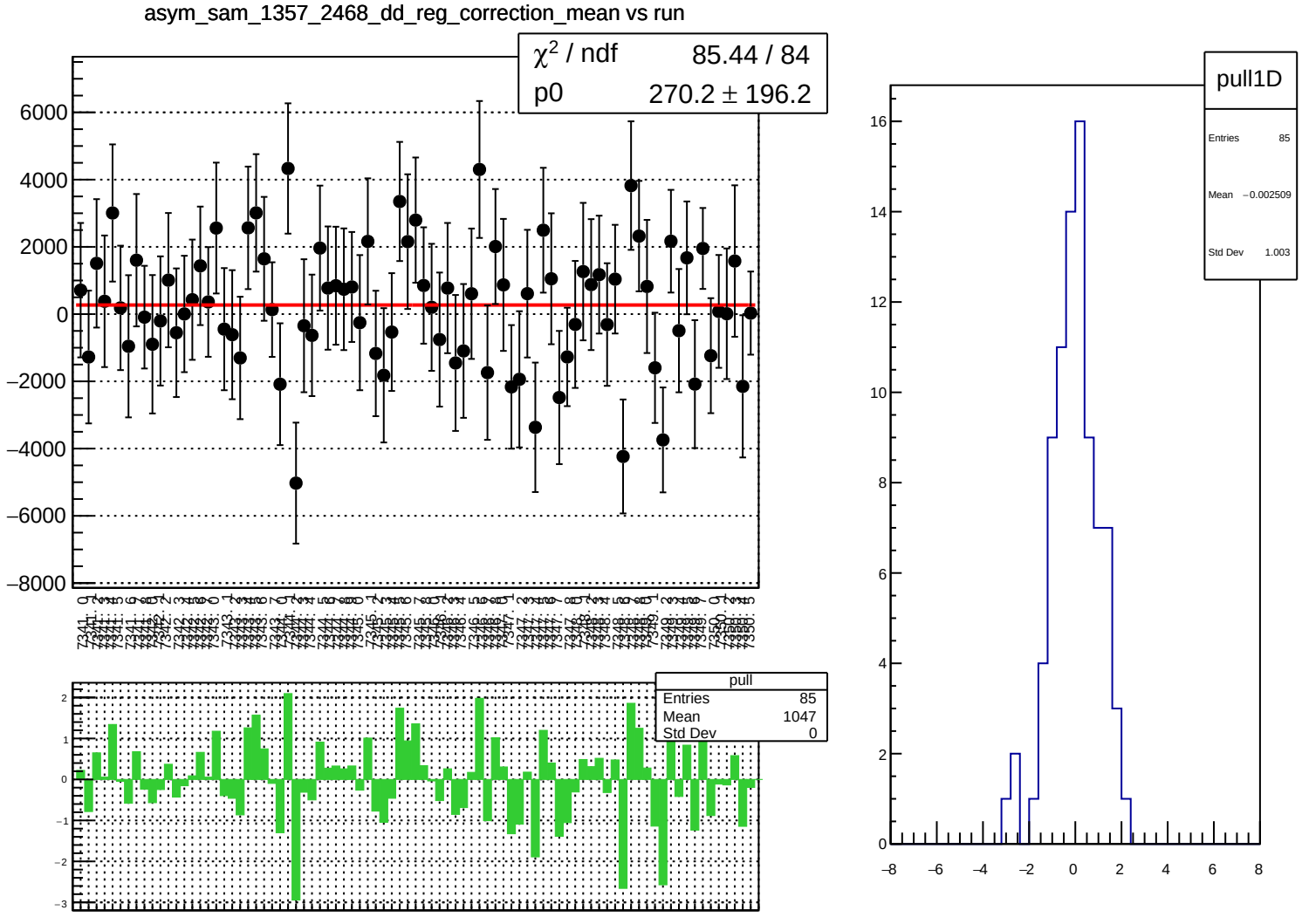

pull1D
Entries 85
Mean −0.07881
Std Dev 0.8529

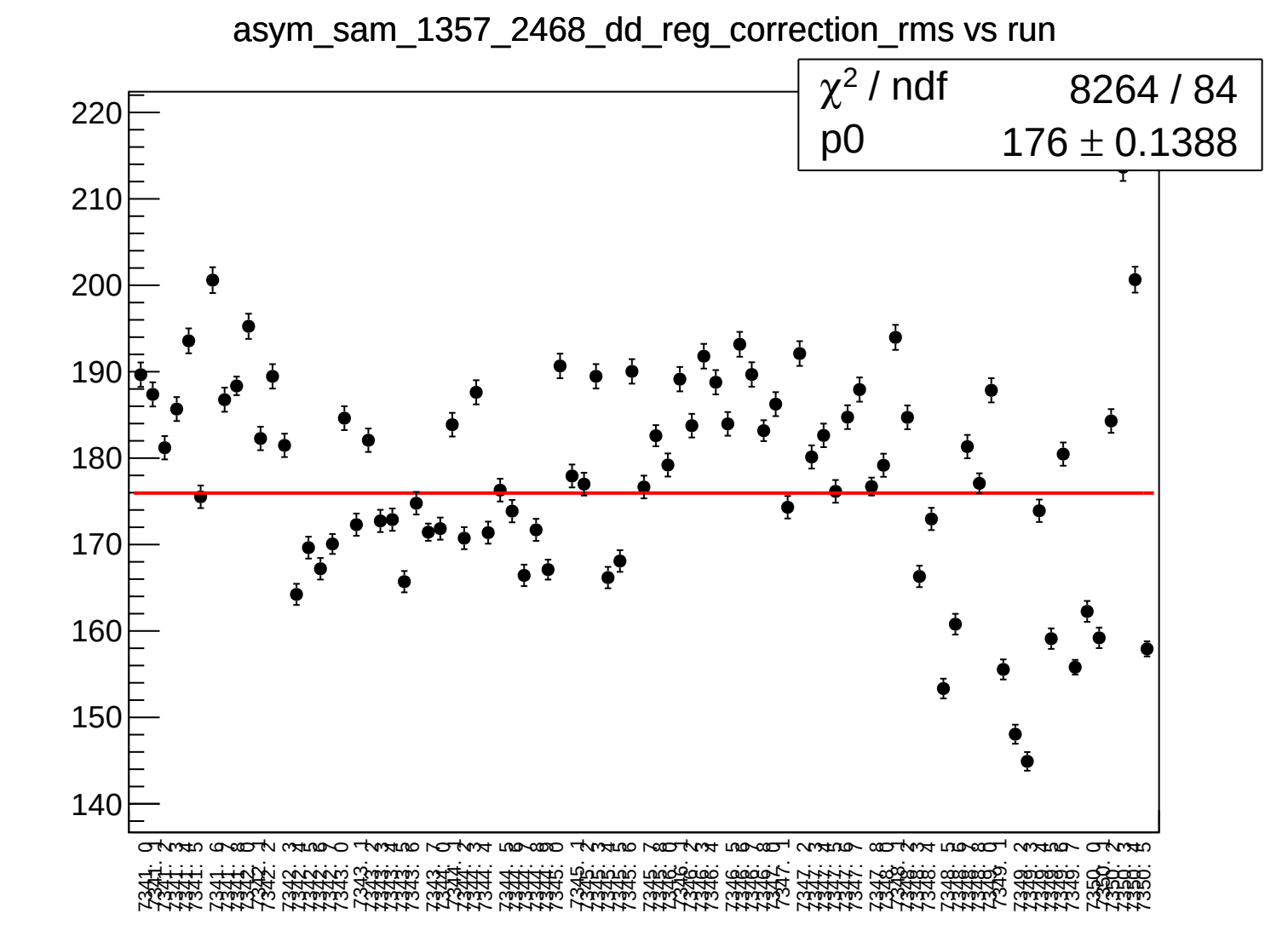

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.534e+05 / 84
p0 9.237e−12 ± 8.565e−15
45
40
35
30
25
20
15
10
5

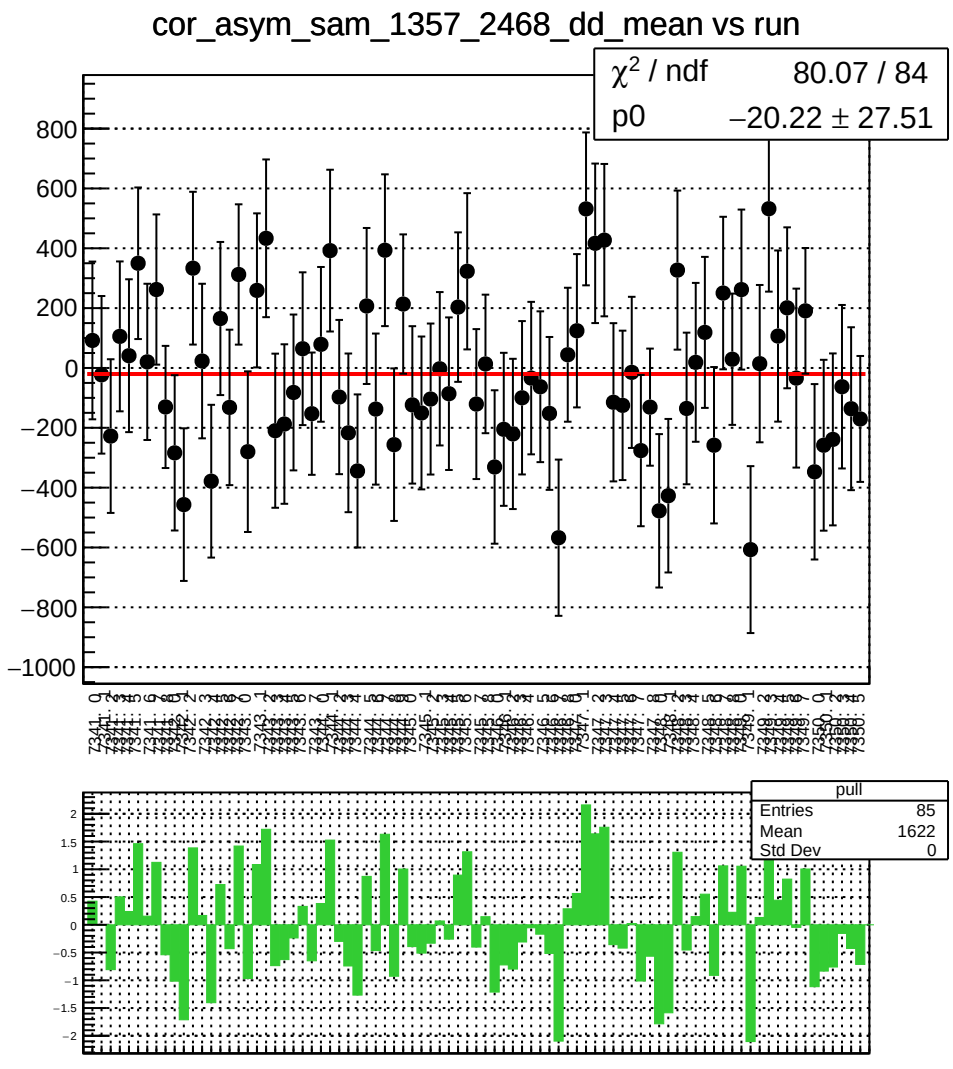

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 80.07 / 84
p0 −20.21 ± 27.51
pull
Entries 85
Mean 1623
Std Dev 0

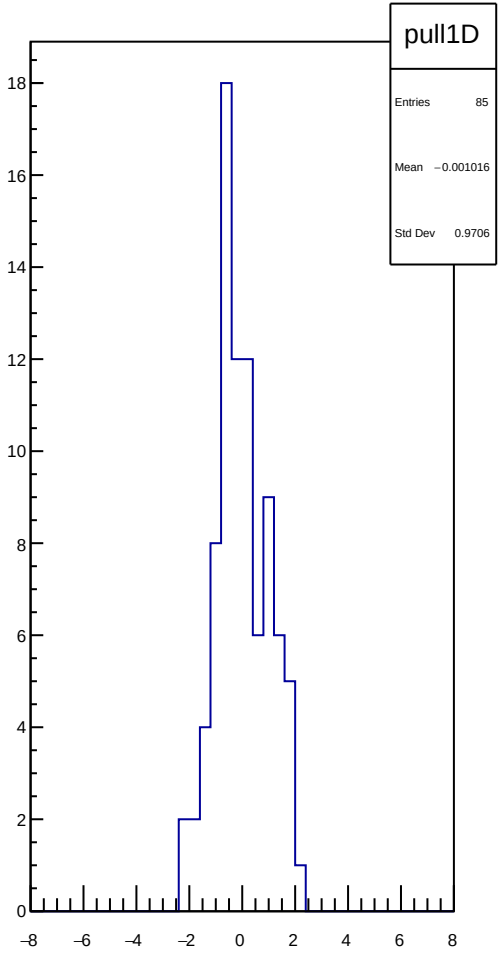

pull1D
Entries 85
Mean −0.001016
Std Dev 0.9705

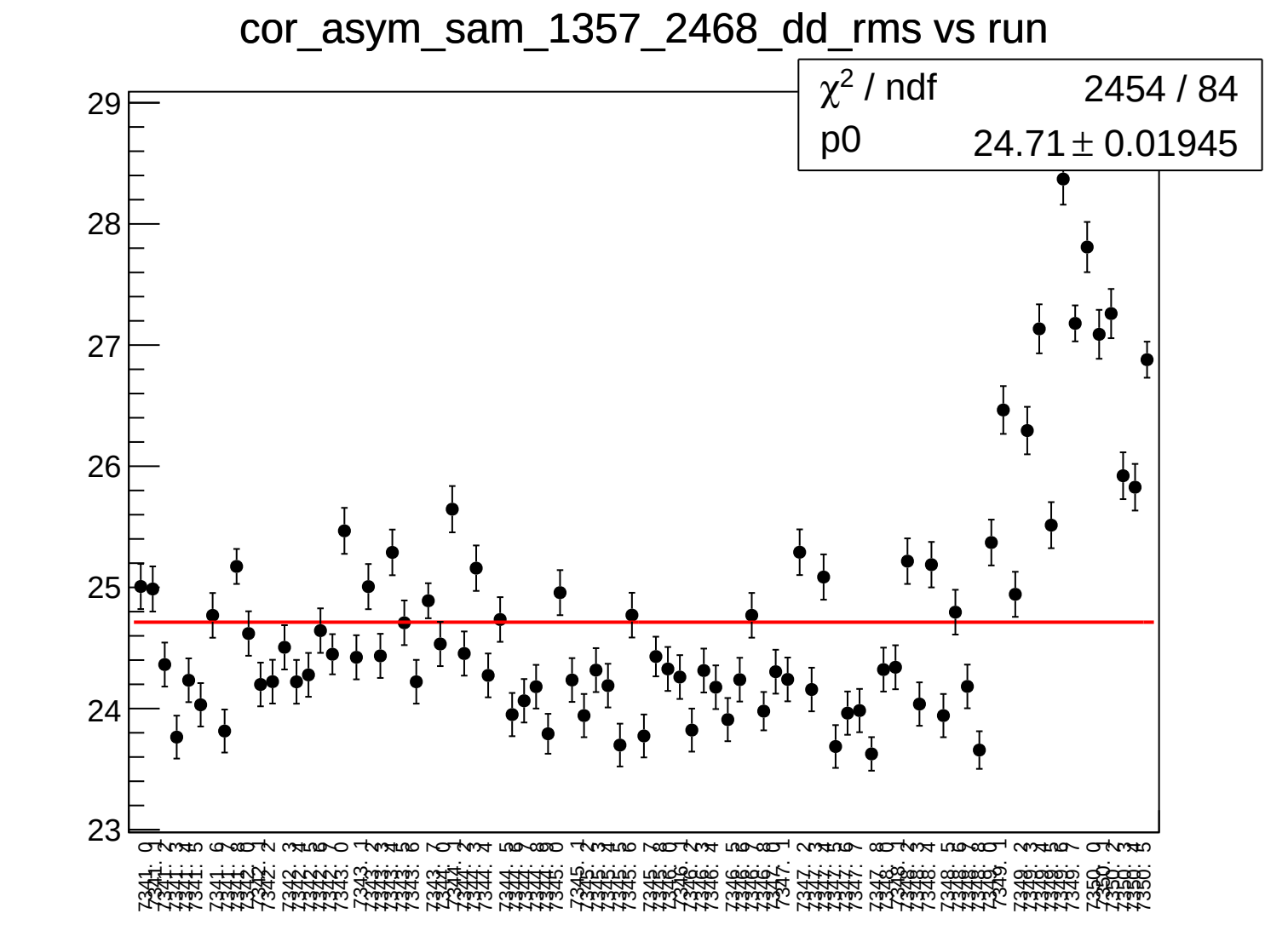

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2454 / 84
p0 24.71 ± 0.01945
29
28
27
26
25
24
23

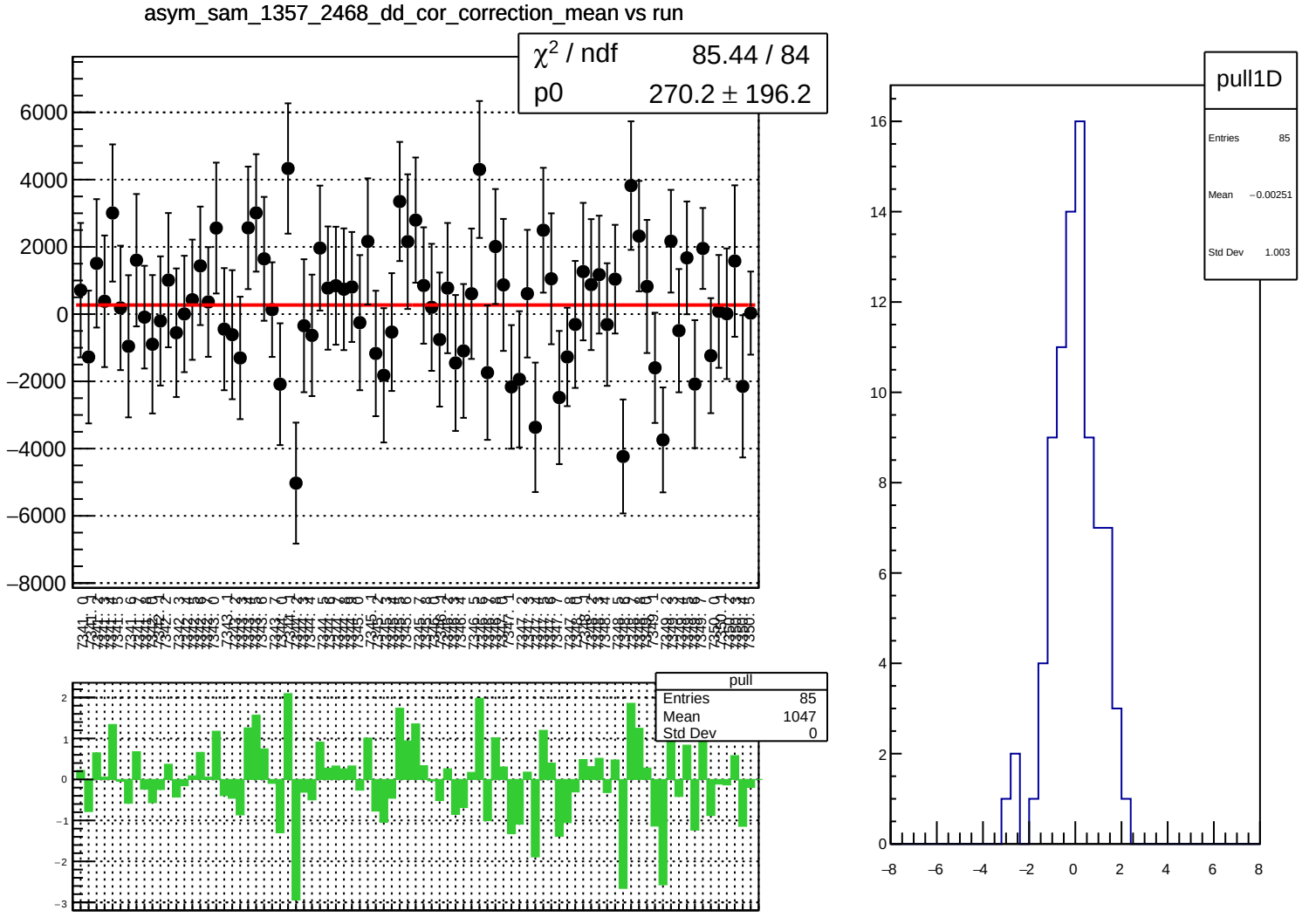

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 85.44 / 84
p0 270.2 ± 196.2
pull
Entries 85
Mean 1047
Std Dev 0
pull1D
Entries 85
Mean −0.002509
Std Dev 1.003

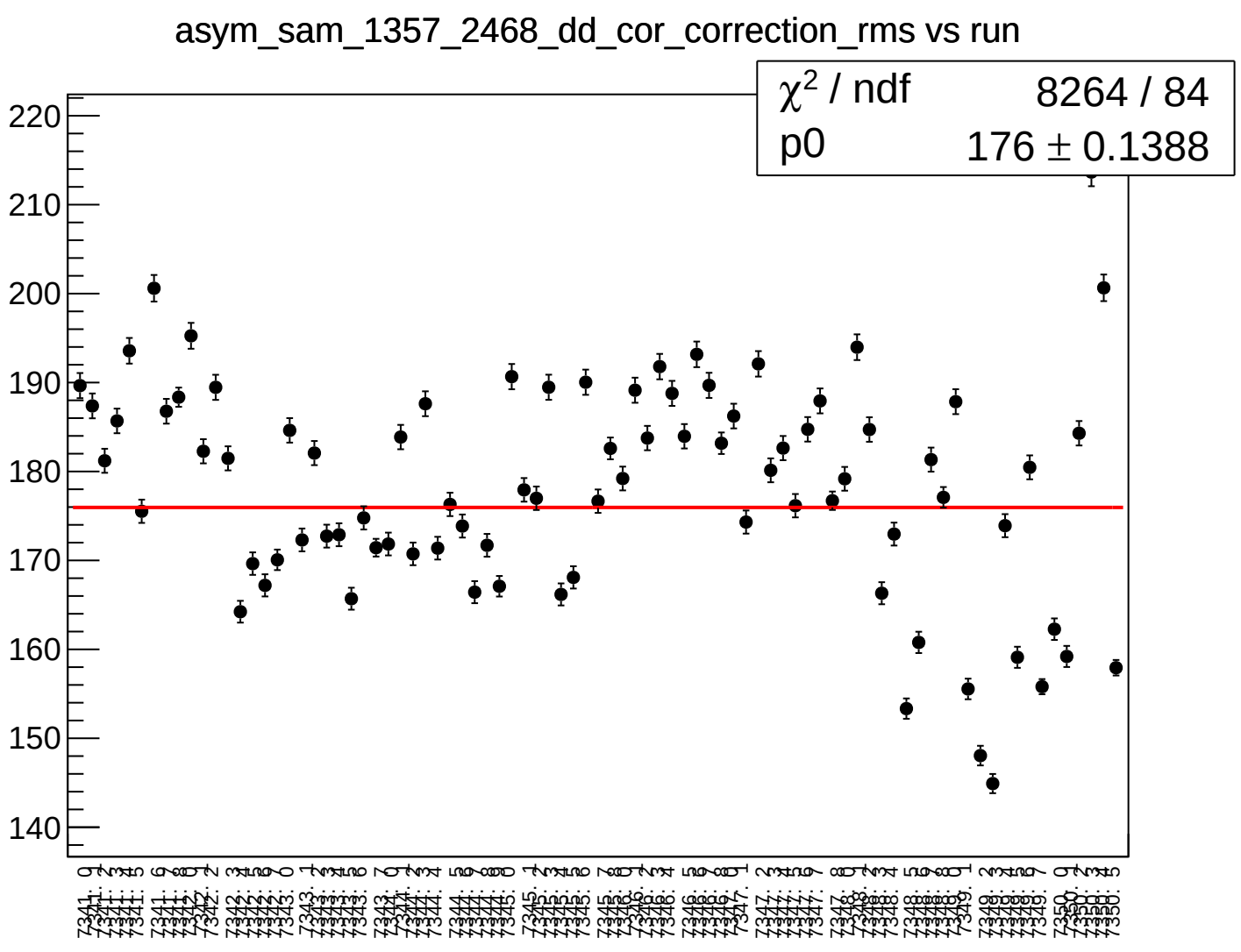

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 8264 / 84
p0 176 ± 0.1388
220
210
200
190
180
170
160
150
140

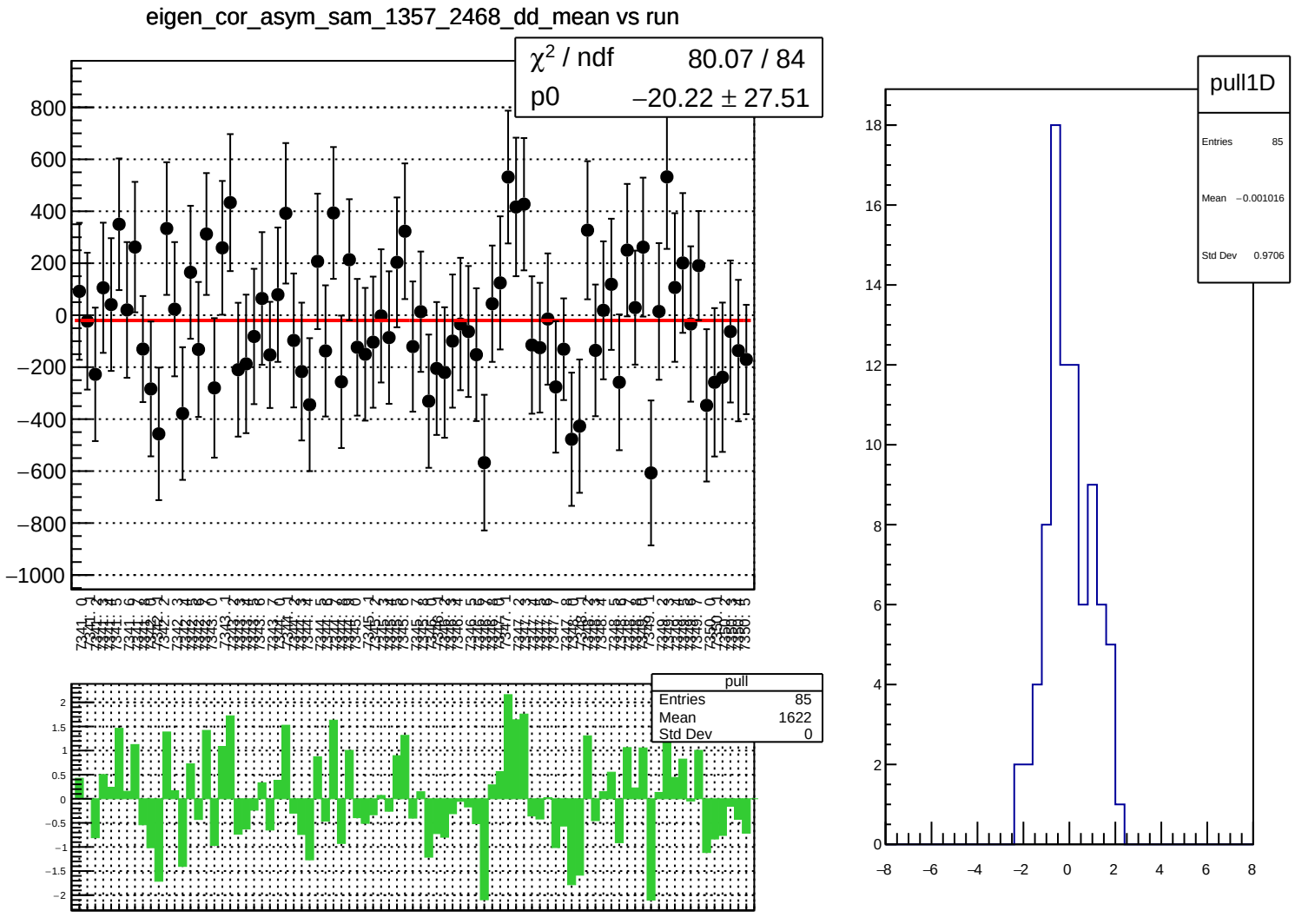

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 80.07 / 84
p0 −20.22 ± 27.51
pull
Entries 85
Mean 1622
Std Dev 0

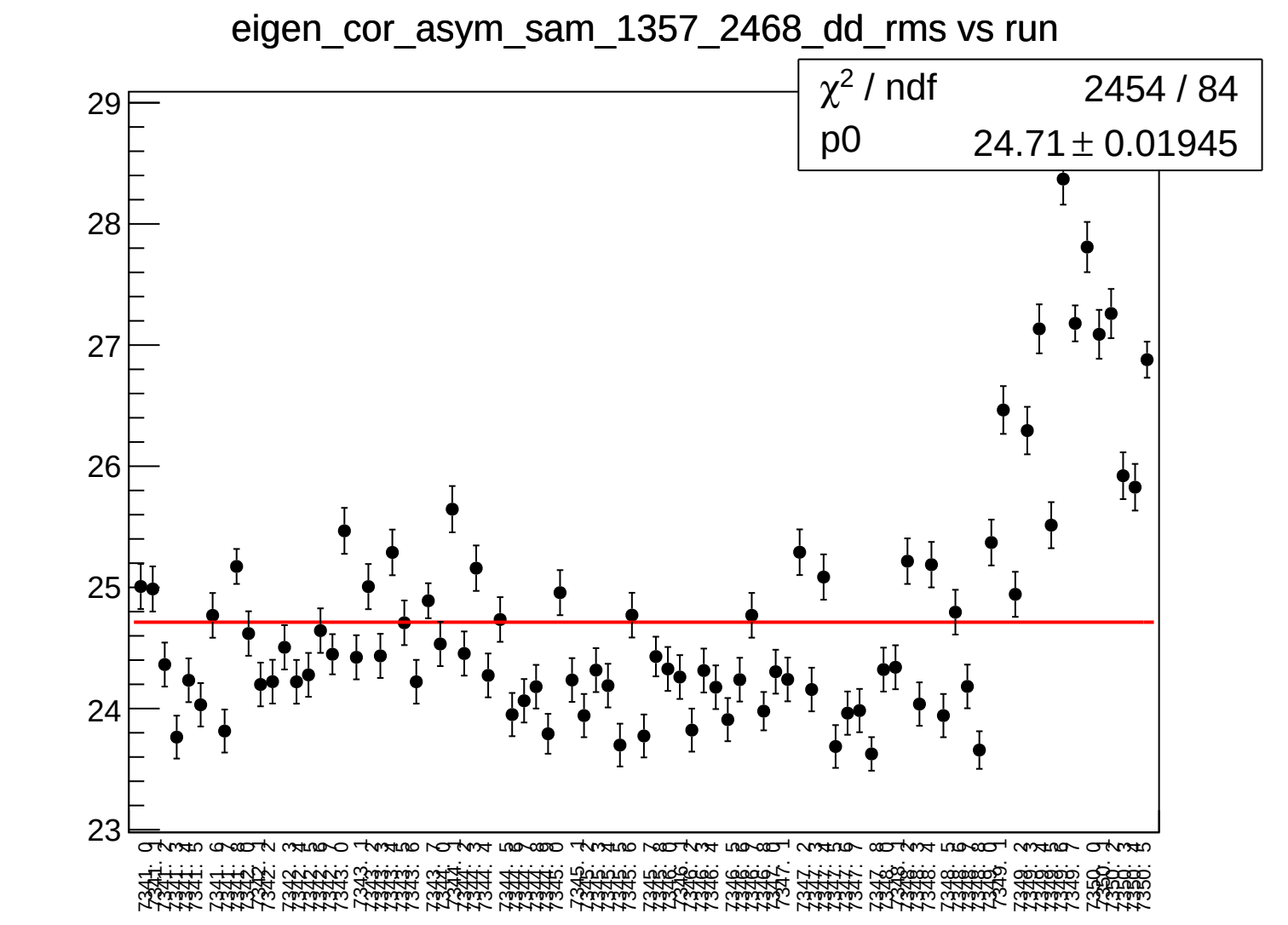

pull1D
Entries 85
Mean −0.001016
Std Dev 0.9706

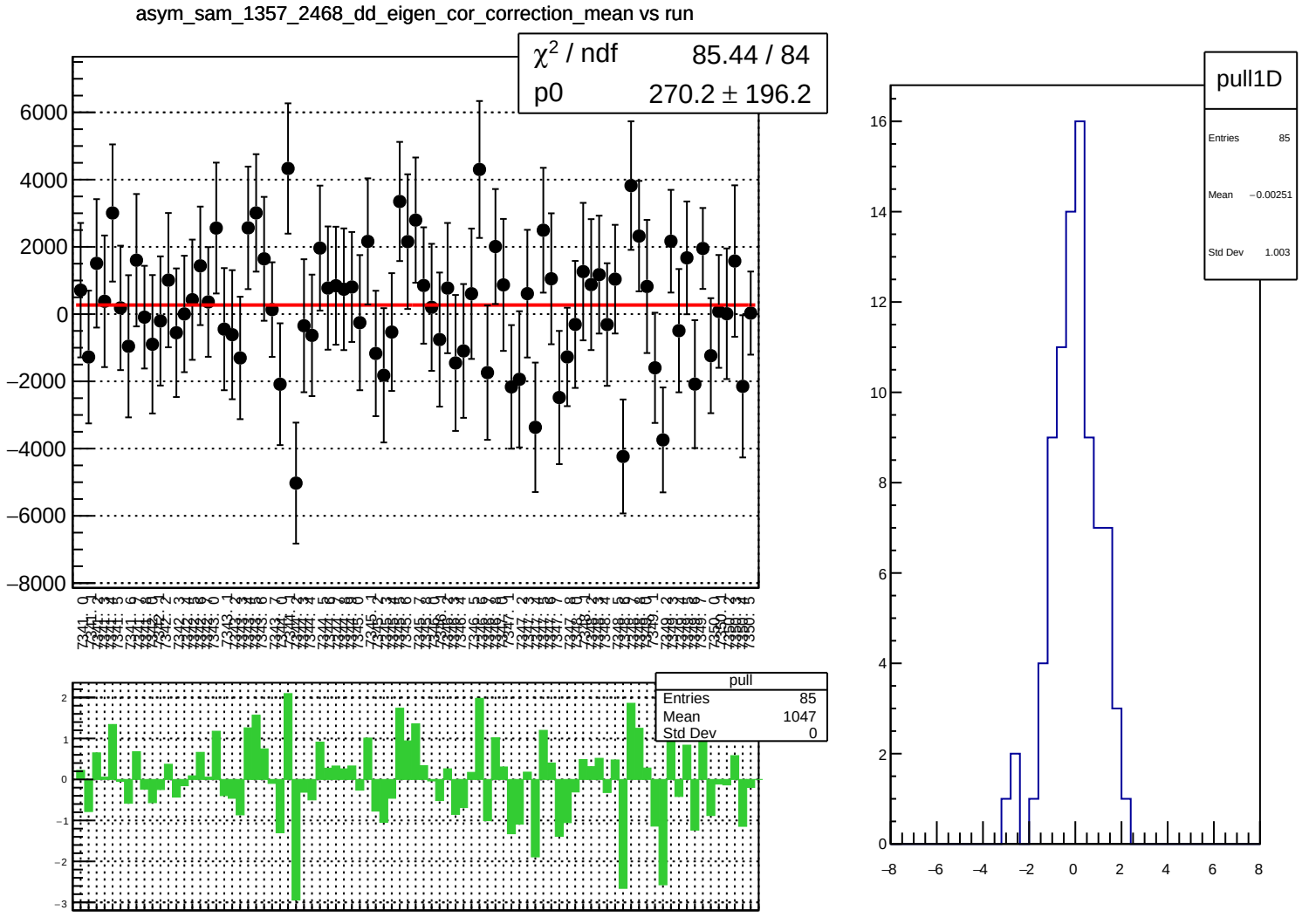

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2454 / 84
p0 24.71 ± 0.01945
29
28
27
26
25
24
23

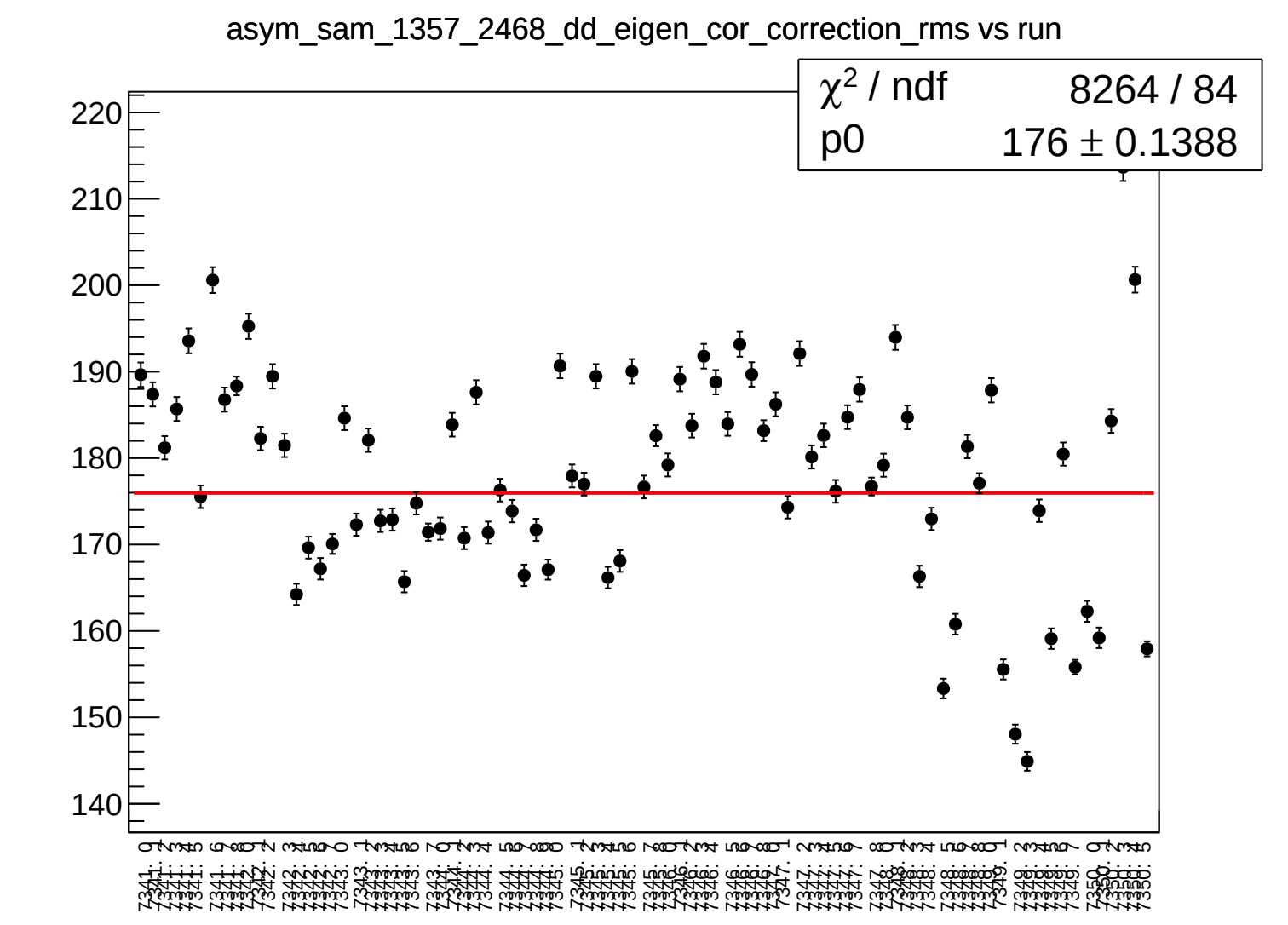

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 85.44 / 84
p0 270.2 ± 196.2
pull
Entries 85
Mean 1047
Std Dev 0
pull1D
Entries 85
Mean −0.00251
Std Dev 1.003

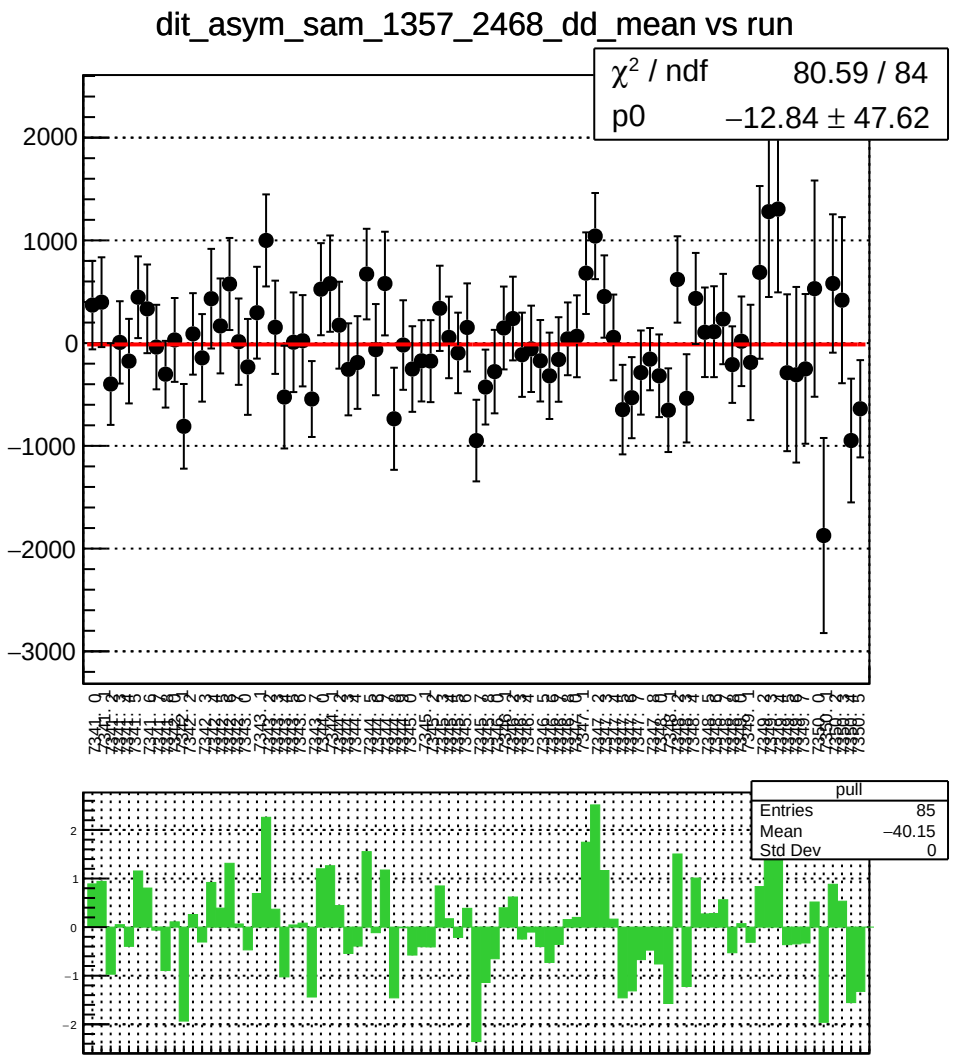

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 8264 / 84
p0 176 ± 0.1388
220
210
200
190
180
170
160
150
140

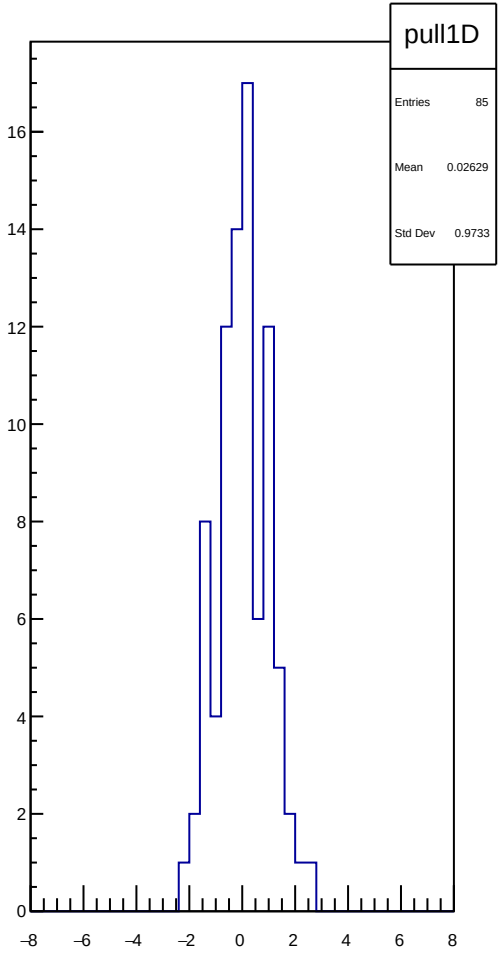

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 80.07 / 84
p0 −20.22 ± 27.51
pull
Entries 85
Mean 1622
Std Dev 0
pull1D
Entries 85
Mean −0.001016
Std Dev 0.9706

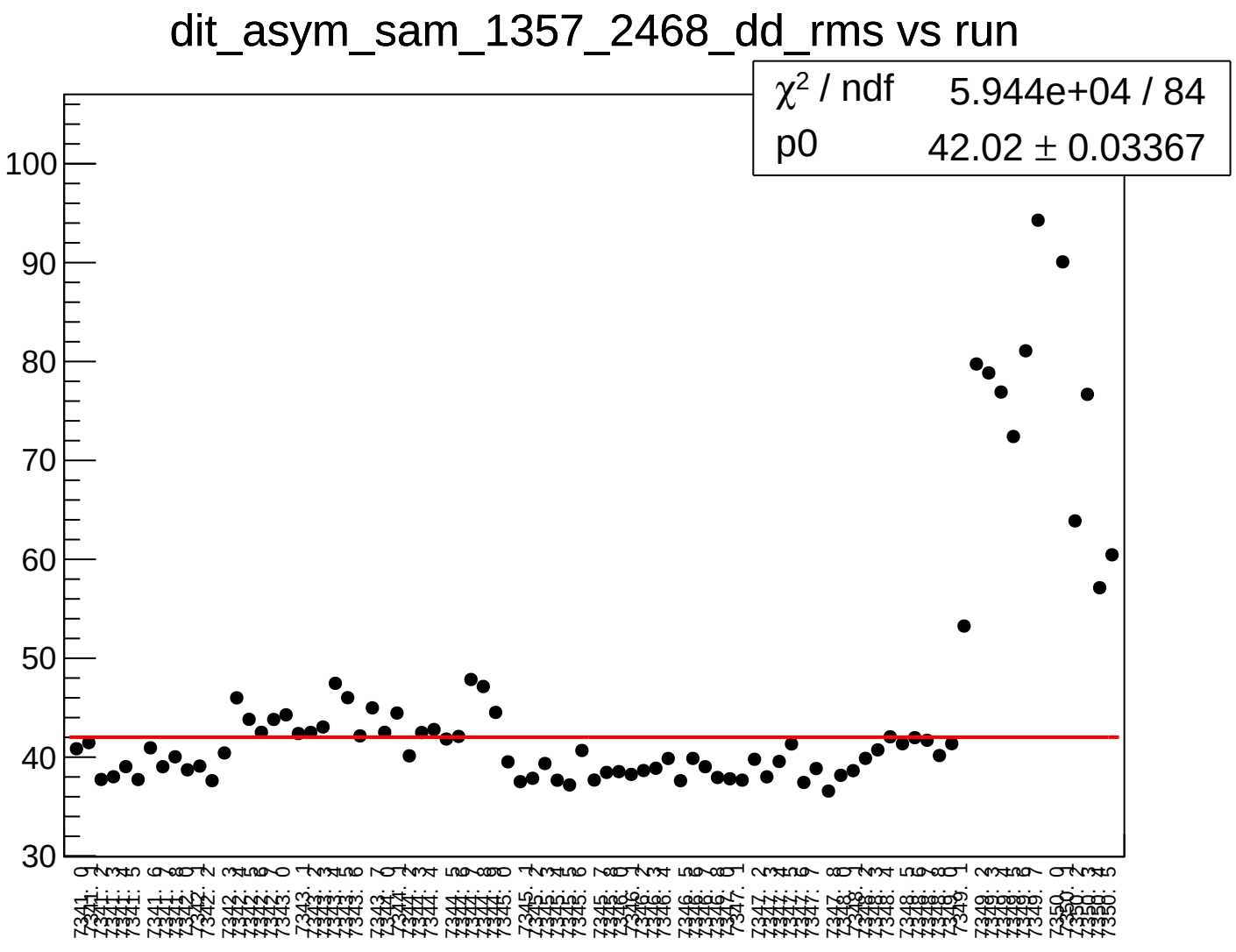

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2454 / 84
p0 24.71 ± 0.01945
29
28
27
26
25
24
23

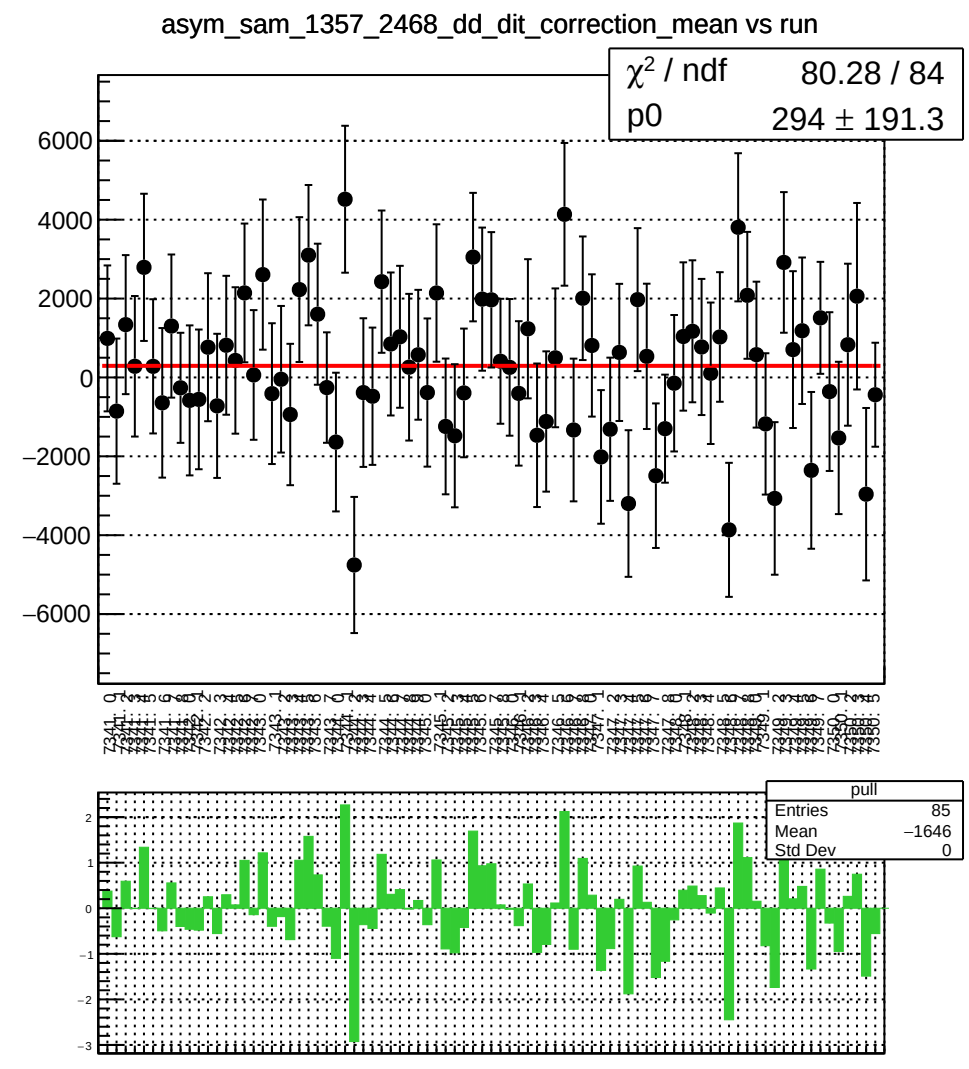

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.44 / 84
p0 270.2 ± 196.2
pull
Entries 85
Mean 1047
Std Dev 0
pull1D
Entries 85
Mean −0.00251
Std Dev 1.003

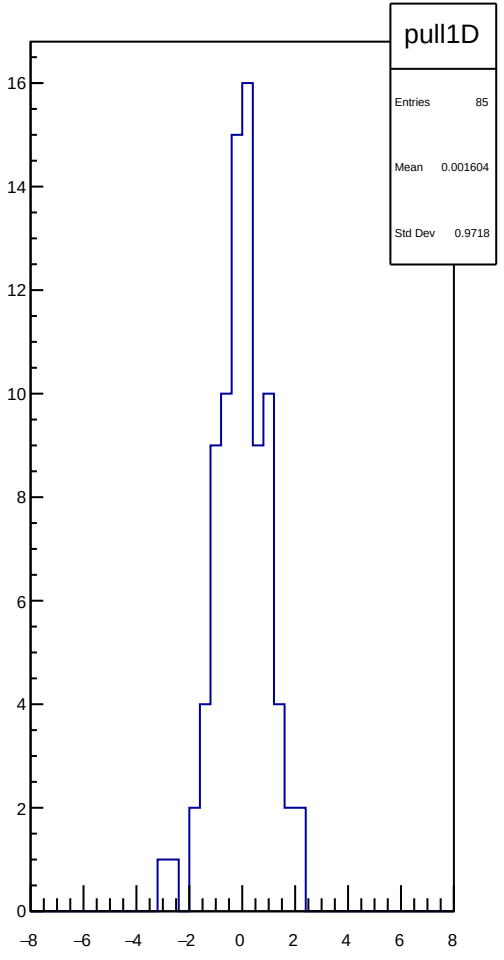

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 8264 / 84
p0 176 ± 0.1388
220
210
200
190
180
170
160
150
140

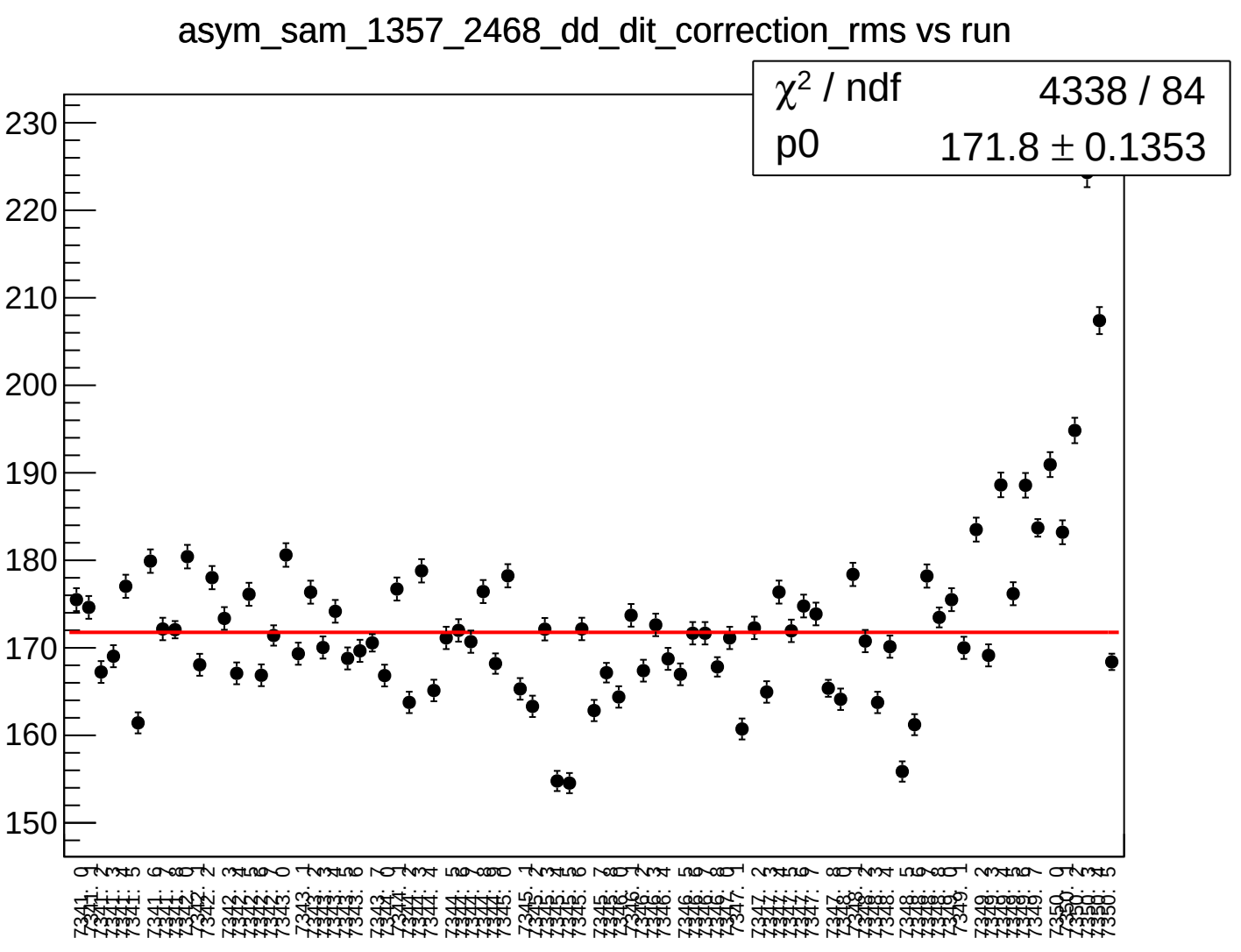

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 80.59 / 84
p0 −12.84 ± 47.62
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −40.15
Std Dev 0
2
1
0
−1
−2

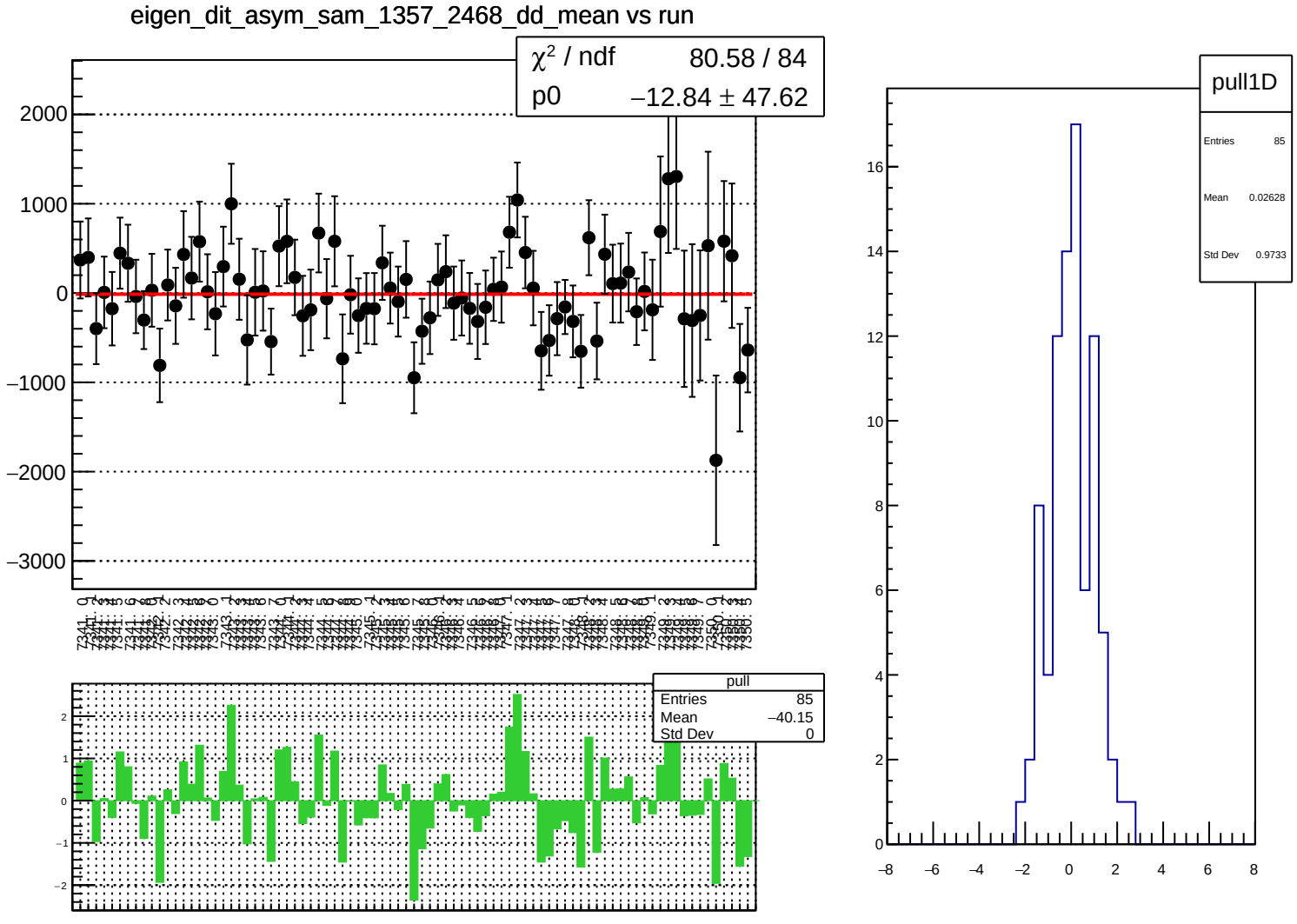

pull1D
Entries 85
Mean 0.02629
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

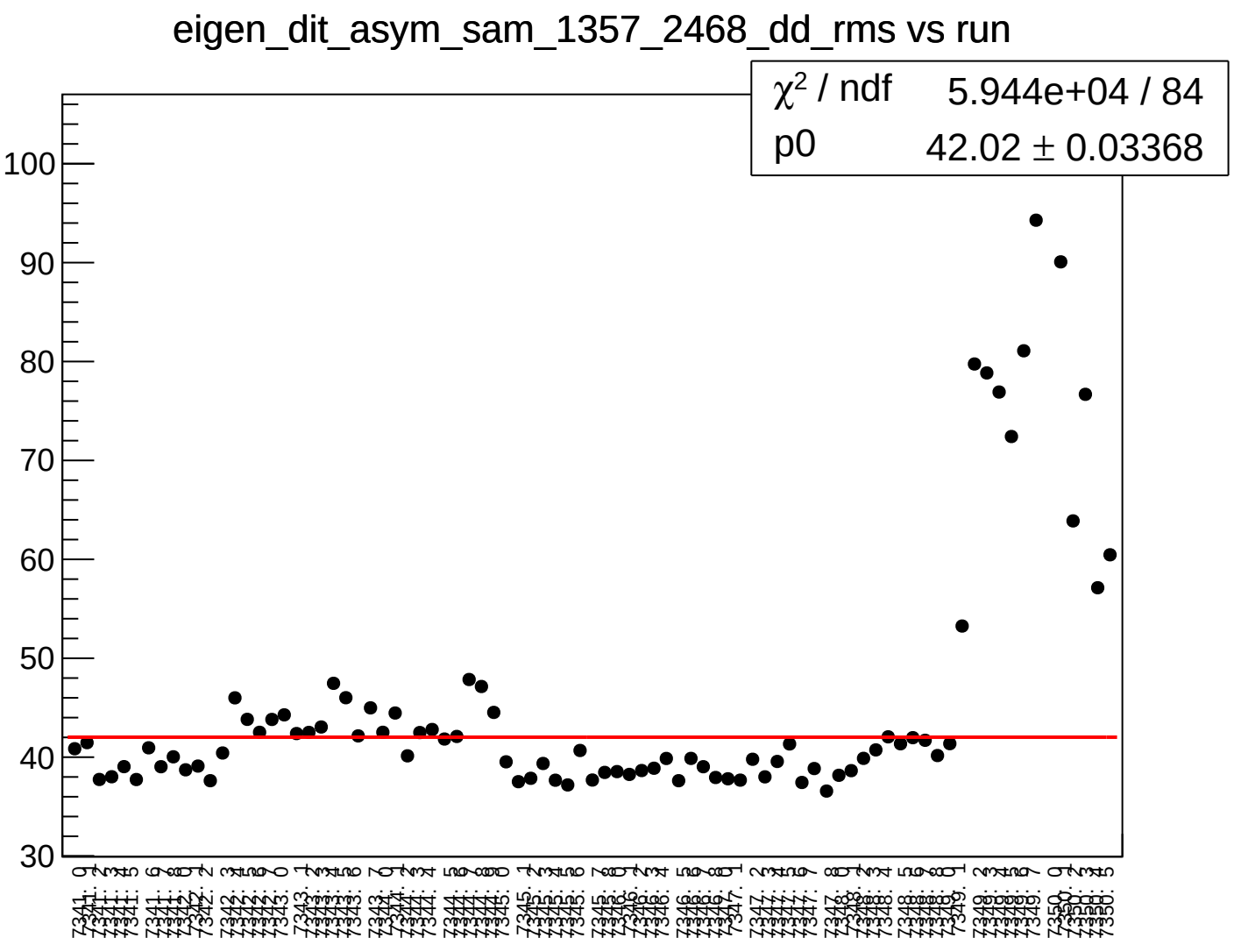

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5.944e+04 / 84
p0 42.02 ± 0.03367
100
90
80
70
60
50
40
30

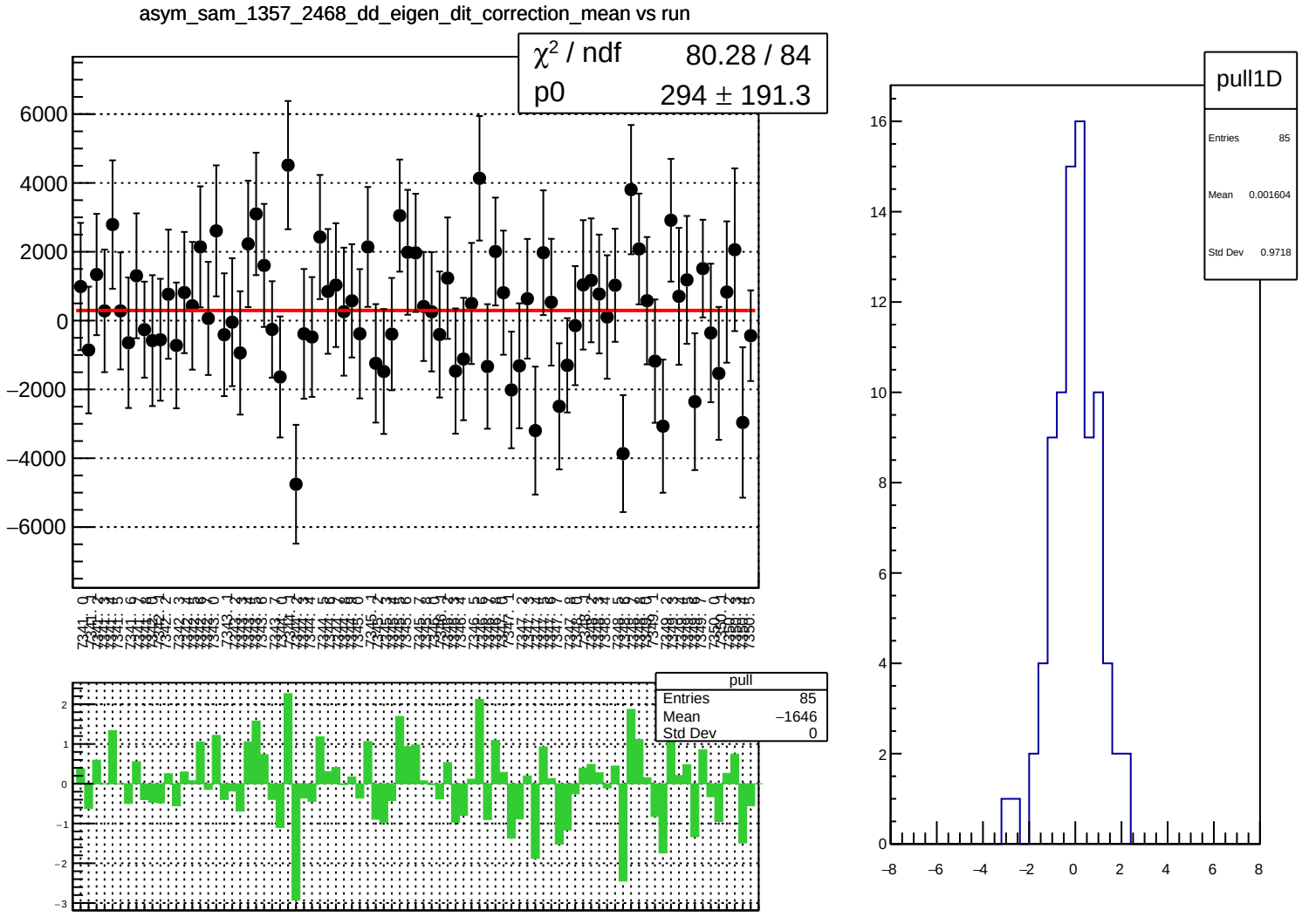

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 80.28 / 84
p0 294 ± 191.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 85
Mean −1646
Std Dev 0
2
1
0
−1
−2
−3

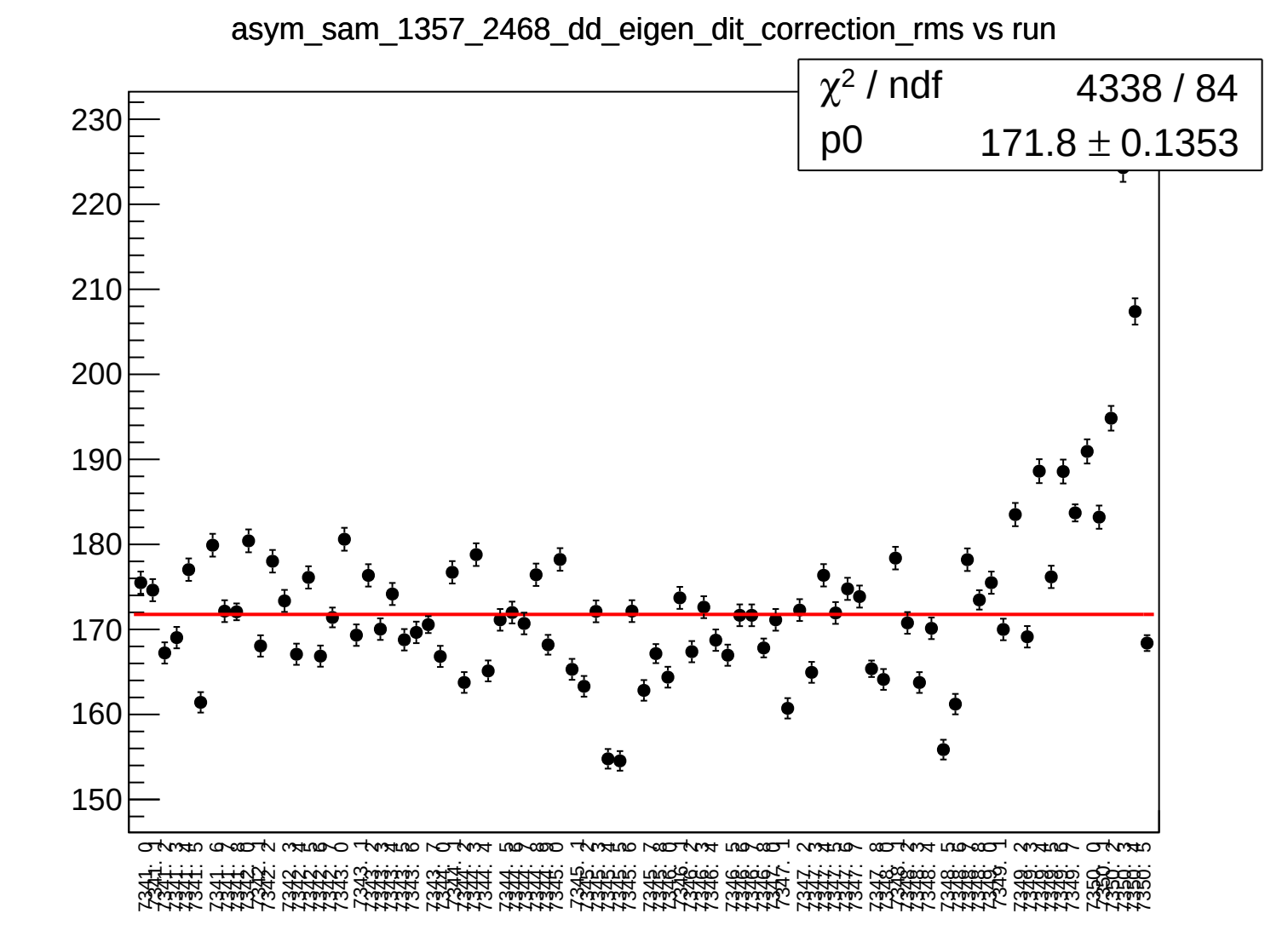

pull1D
Entries 85
Mean 0.001604
Std Dev 0.9718
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

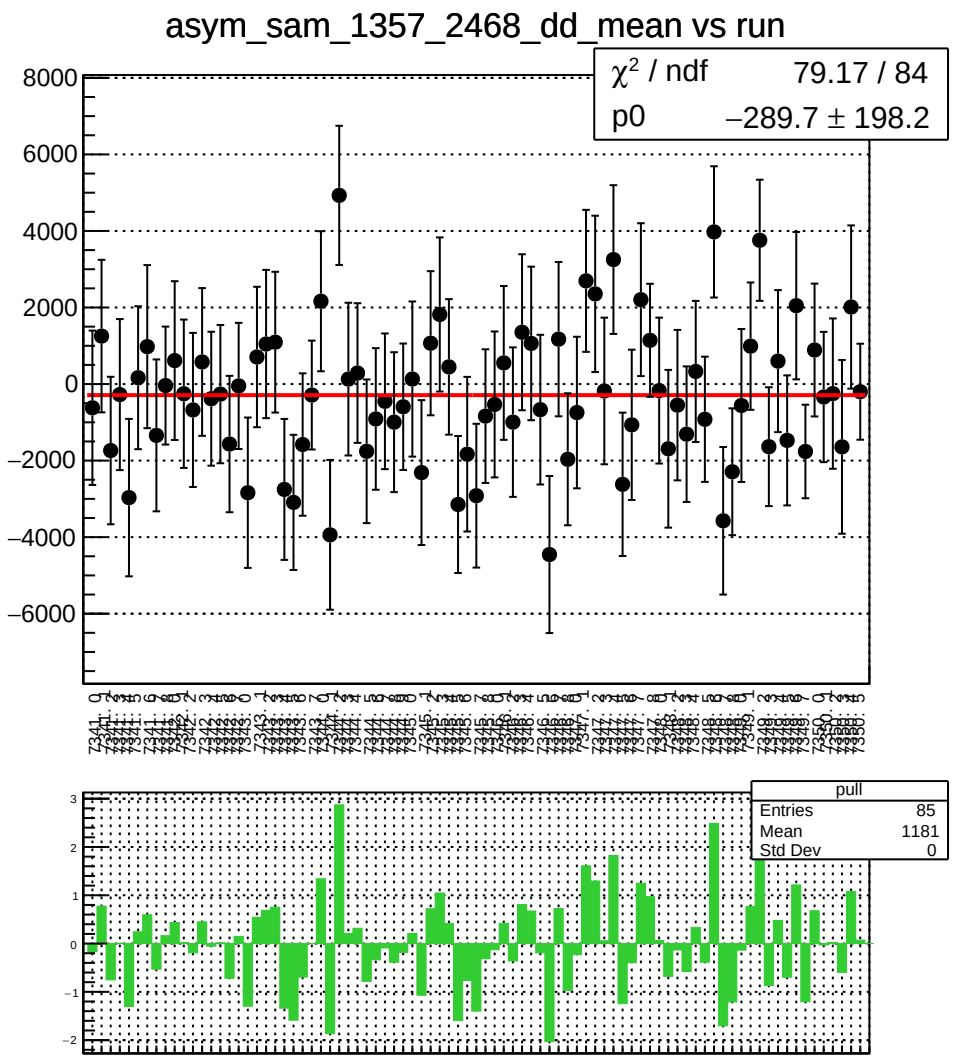

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 4338 / 84
p0 171.8 ± 0.1353
230
220
210
200
190
180
170
160
150

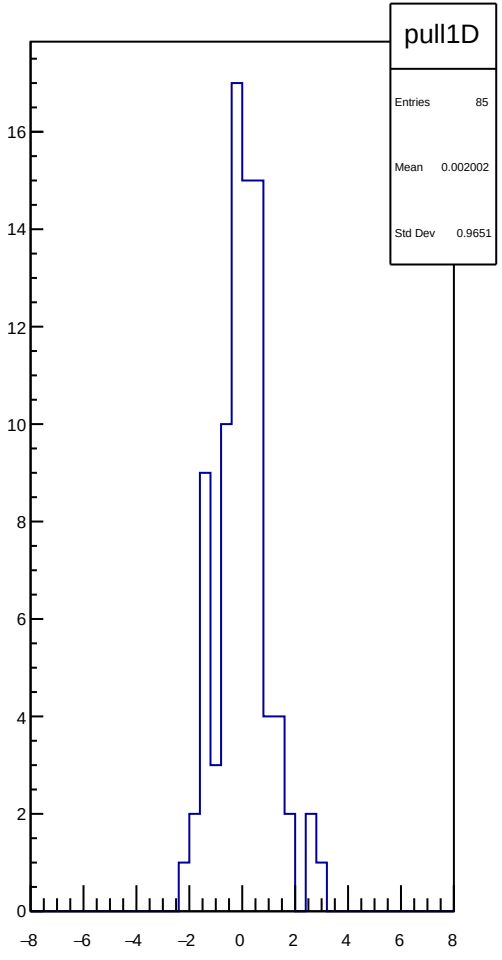

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 80.58 / 84
p0 −12.84 ± 47.62
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean −40.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.02628
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

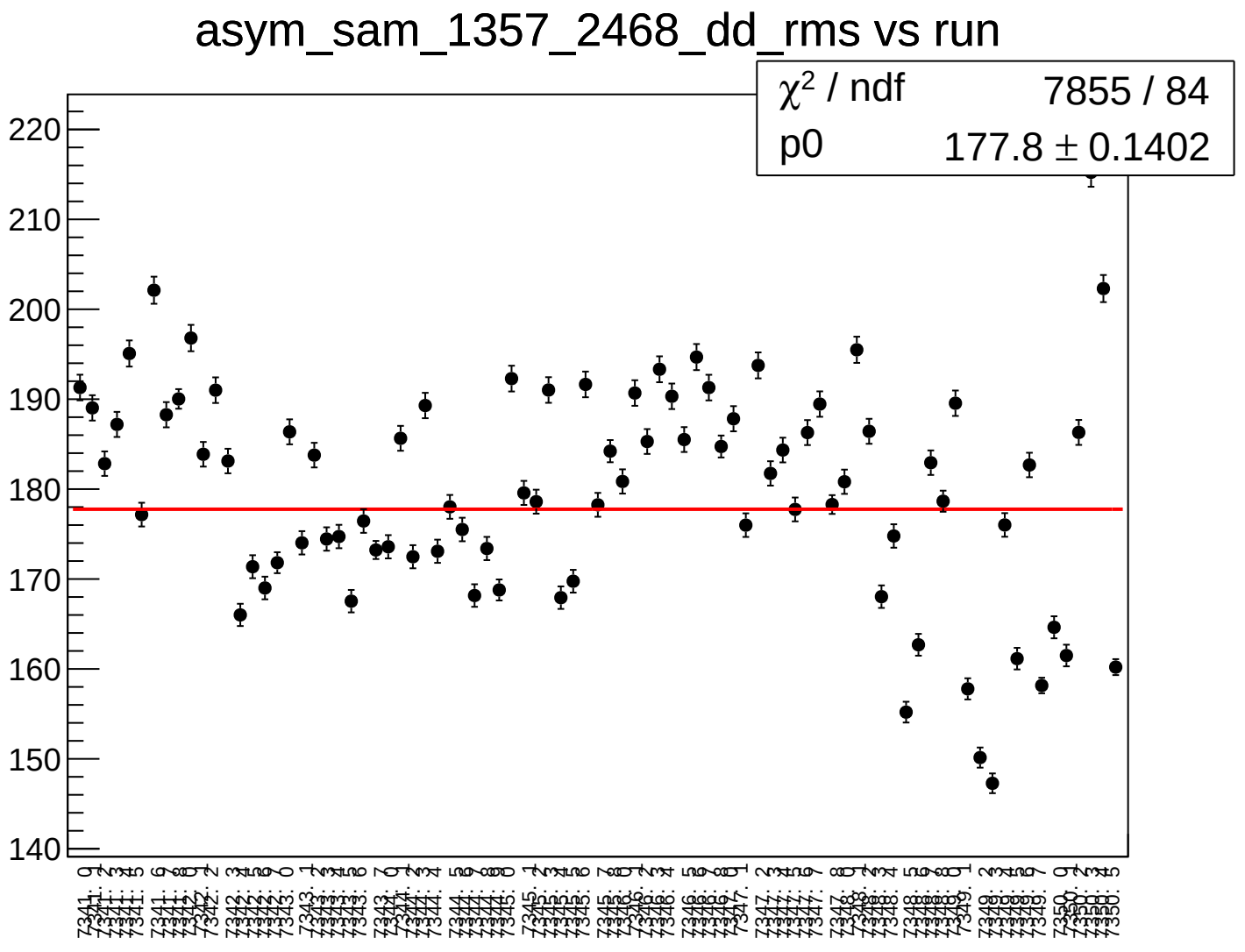

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5.944e+04 / 84
p0 42.02 ± 0.03368
100
90
80
70
60
50
40
30

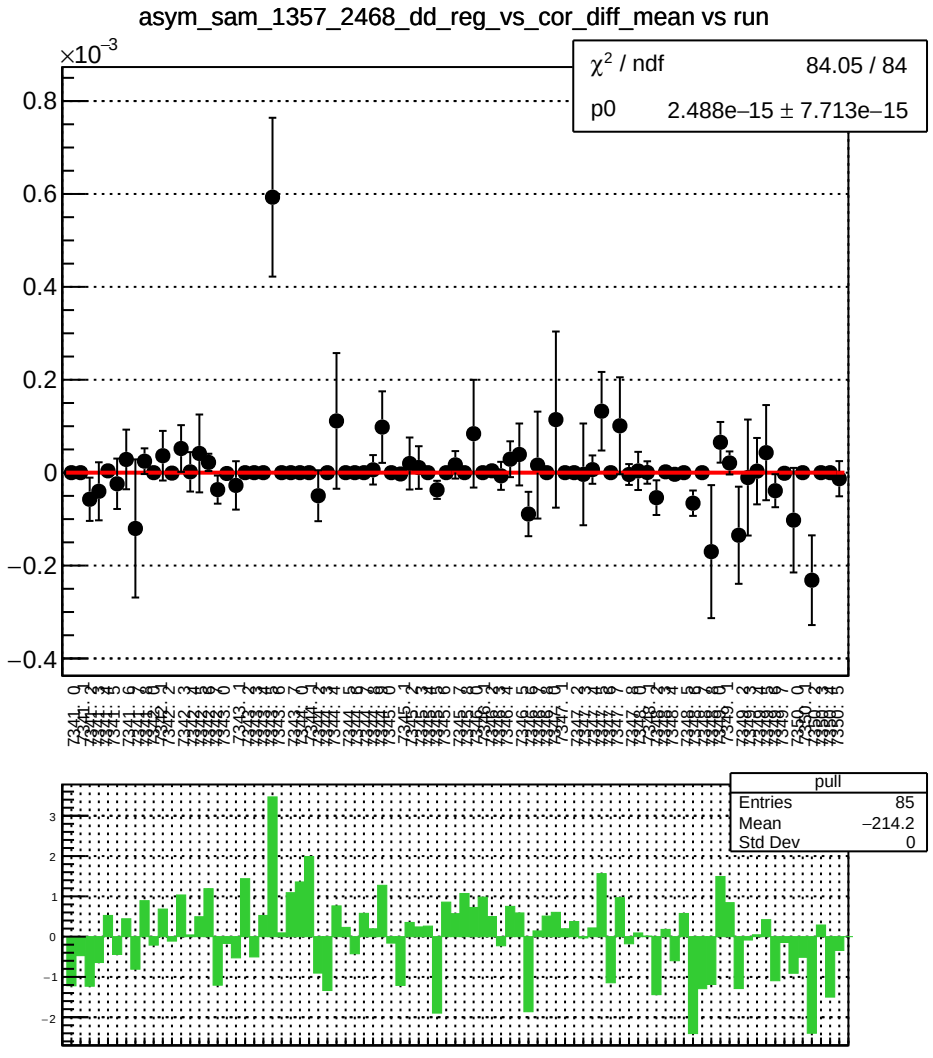

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.28 / 84
p0 294 ± 191.3
pull
Entries 85
Mean −1646
Std Dev 0
pull1D
Entries 85
Mean 0.001604
Std Dev 0.9718

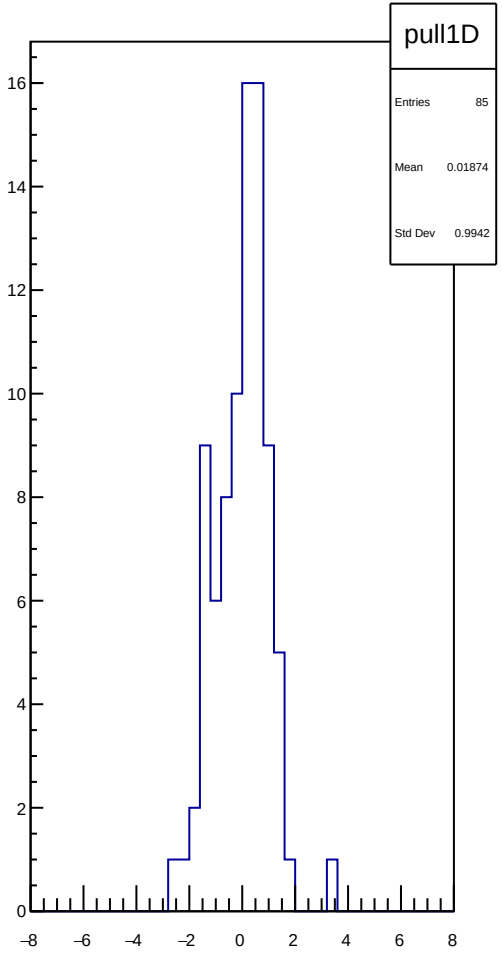

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 4338 / 84
p0 171.8 ± 0.1353
230
220
210
200
190
180
170
160
150

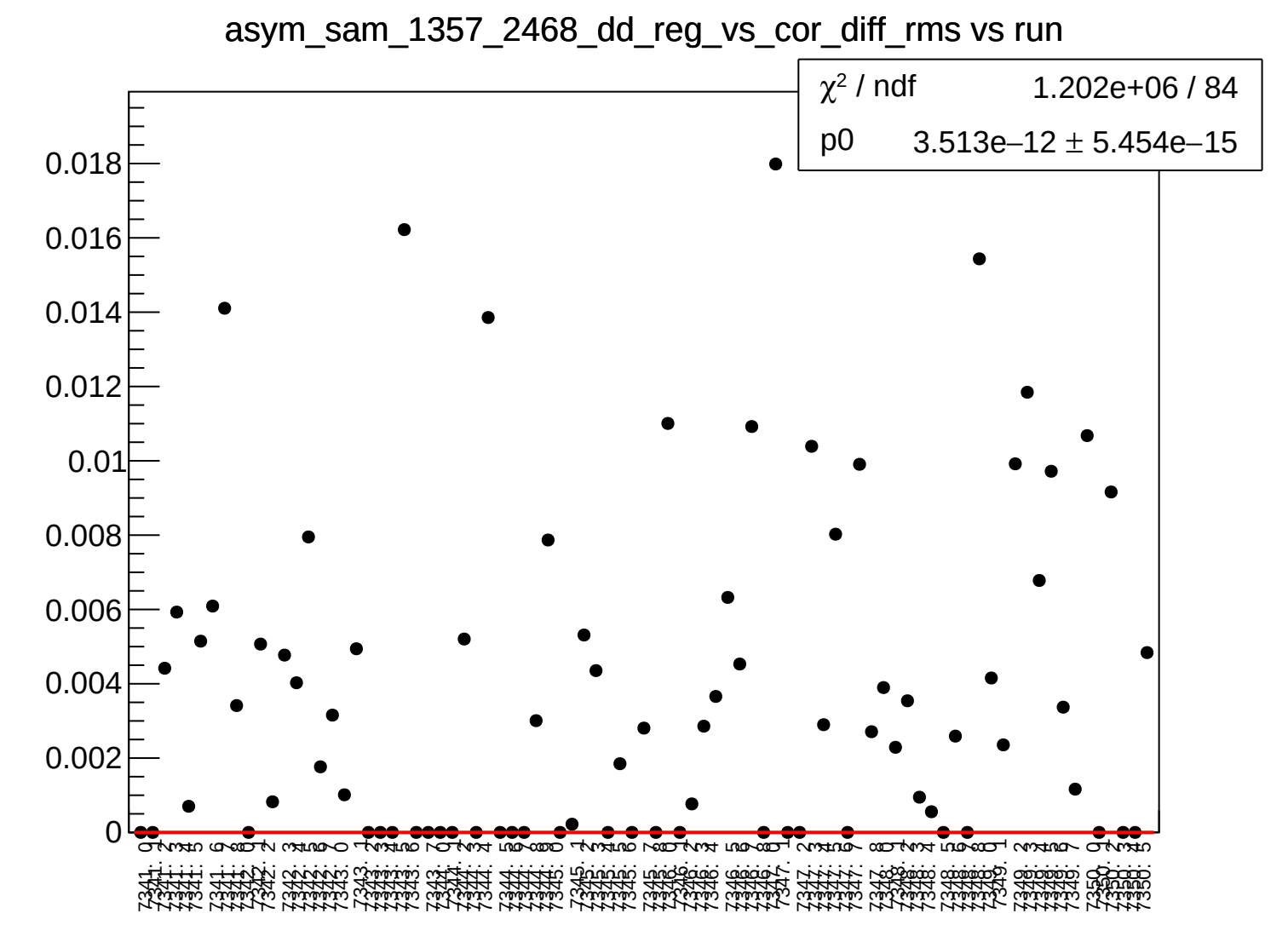

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.17 / 84
p0 −289.7 ± 198.2
pull
Entries 85
Mean 1181
Std Dev 0

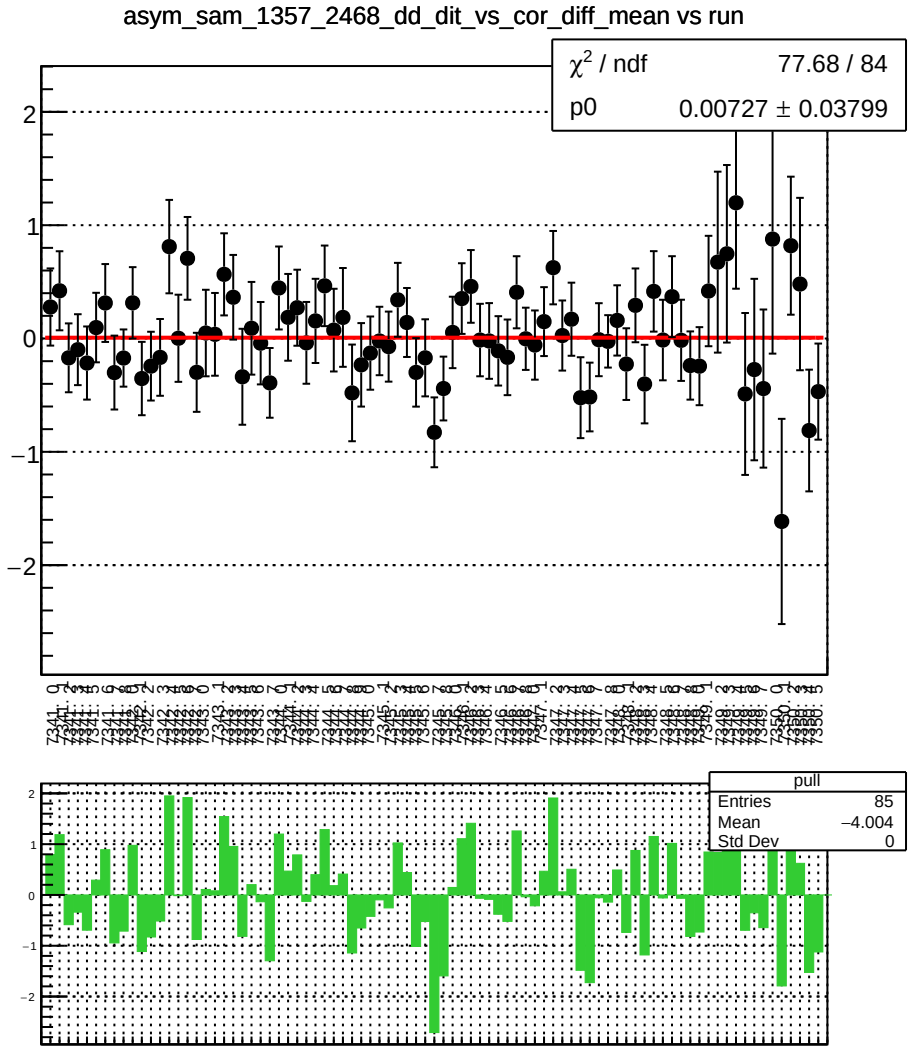

pull1D
Entries 85
Mean 0.002002
Std Dev 0.9651

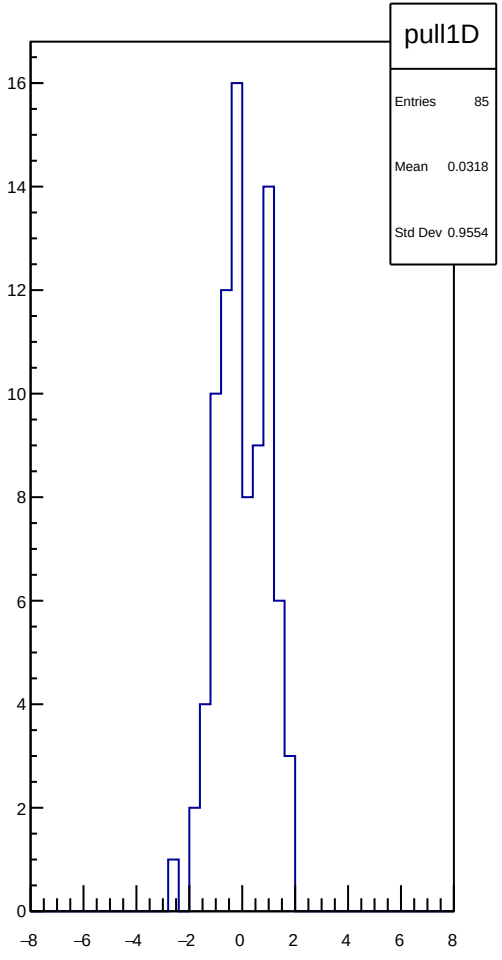

asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 7855 / 84
p0 177.8 ± 0.1402
220
210
200
190
180
170
160
150
140

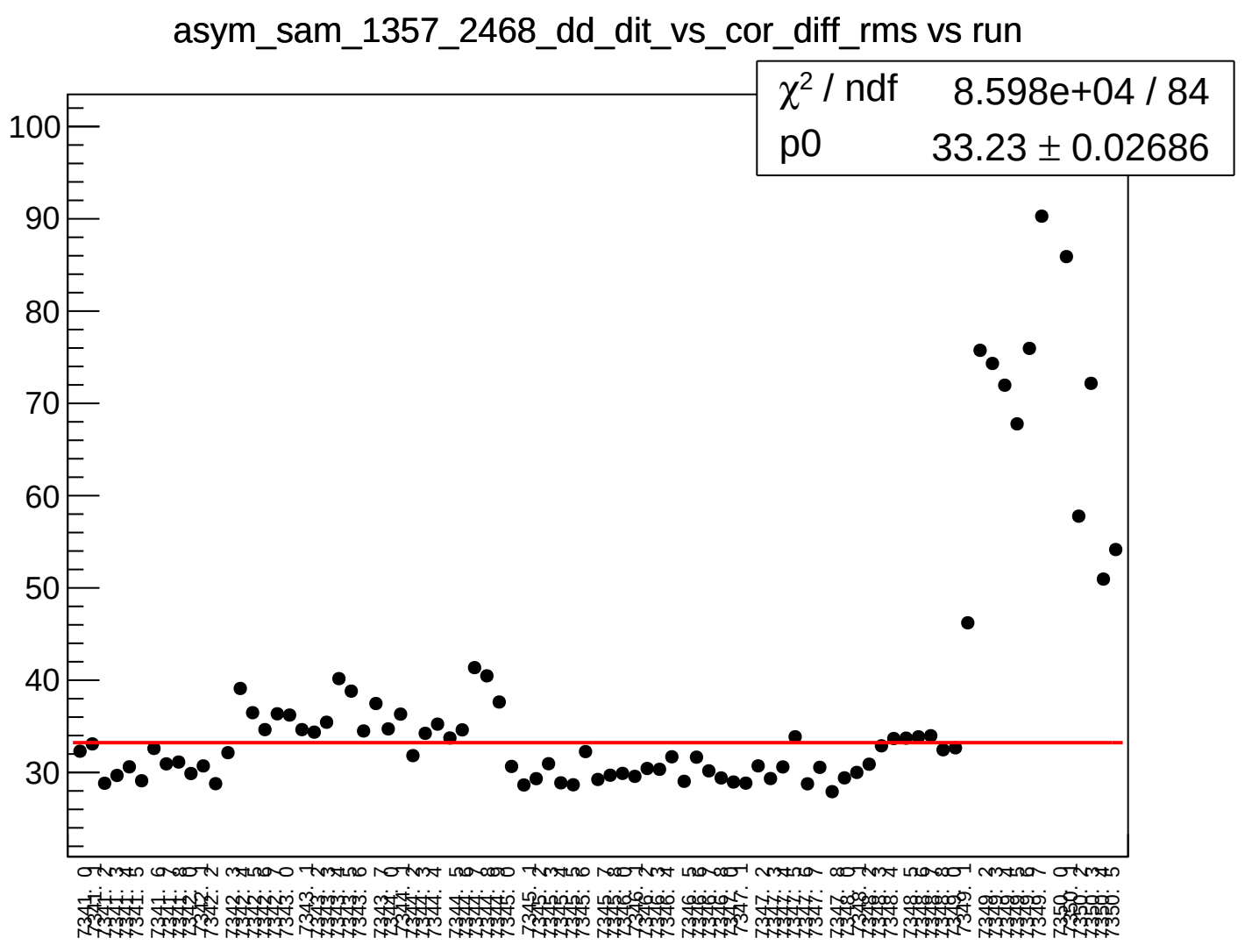

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 84.05 / 84
p0 2.488e−15 ± 7.713e−15
pull
Entries 85
Mean −214.2
Std Dev 0

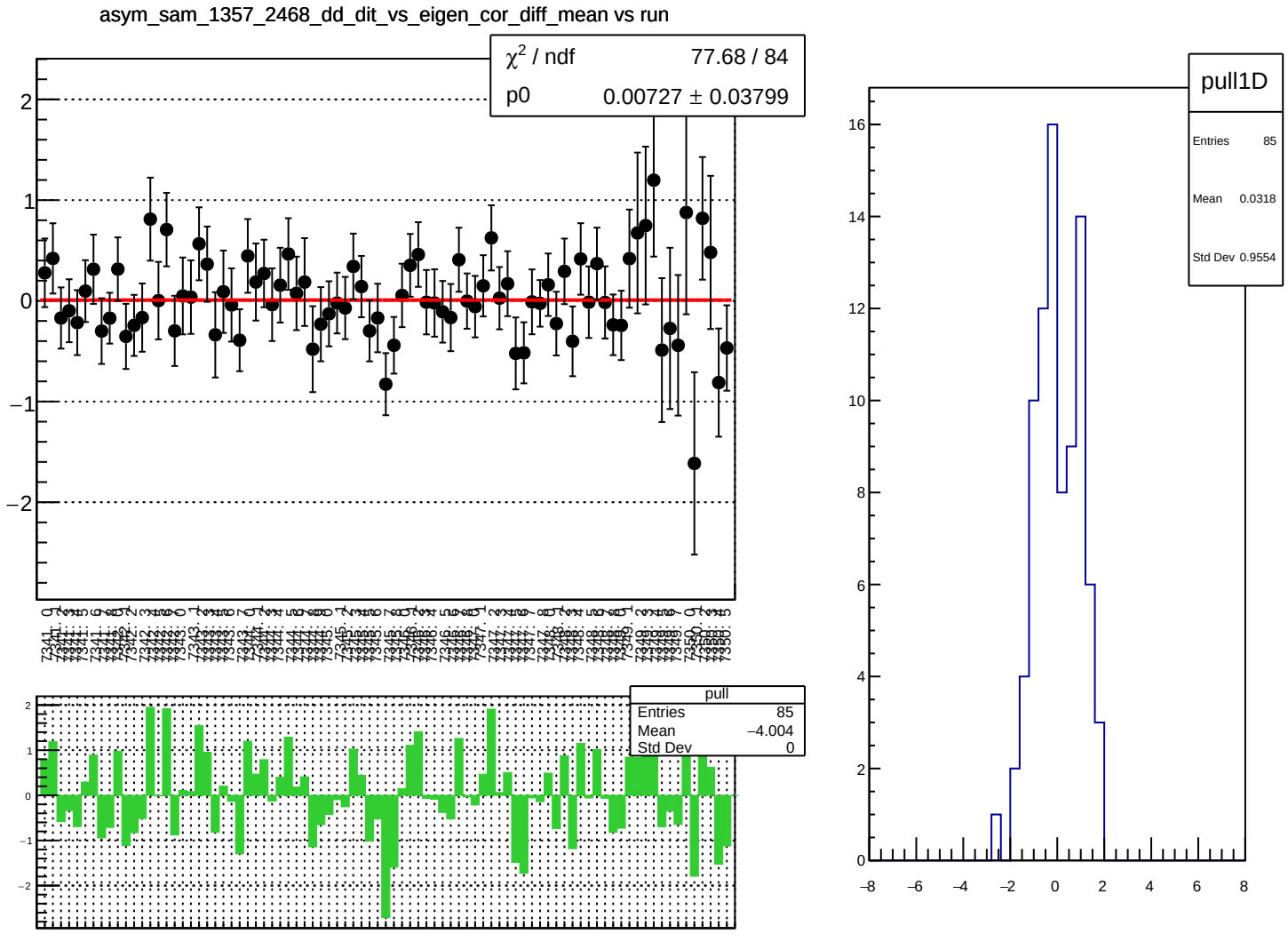

pull1D
Entries 85
Mean 0.01874
Std Dev 0.9942

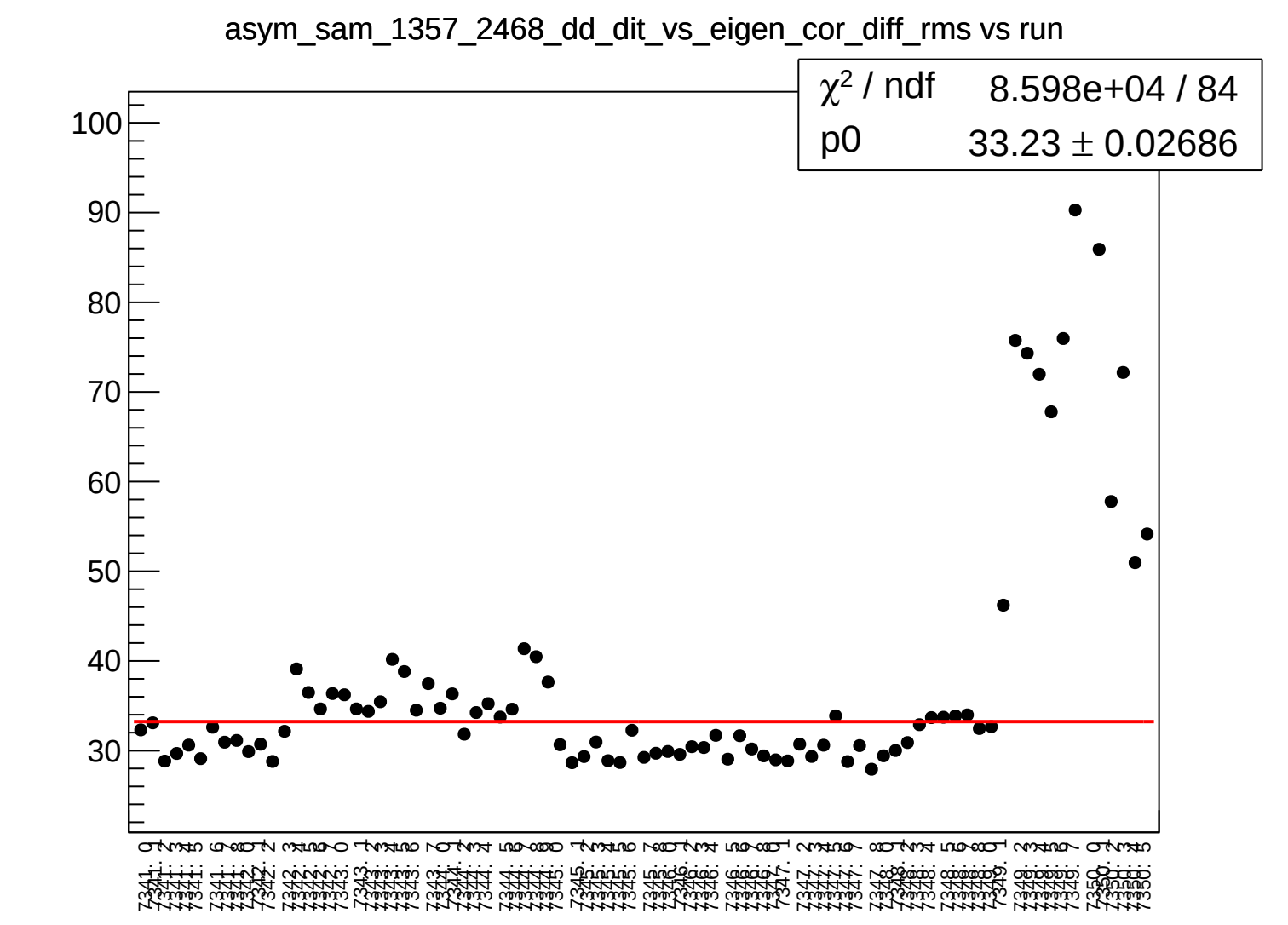

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.202e+06 / 84
p0 3.513e−12 ± 5.454e−15
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

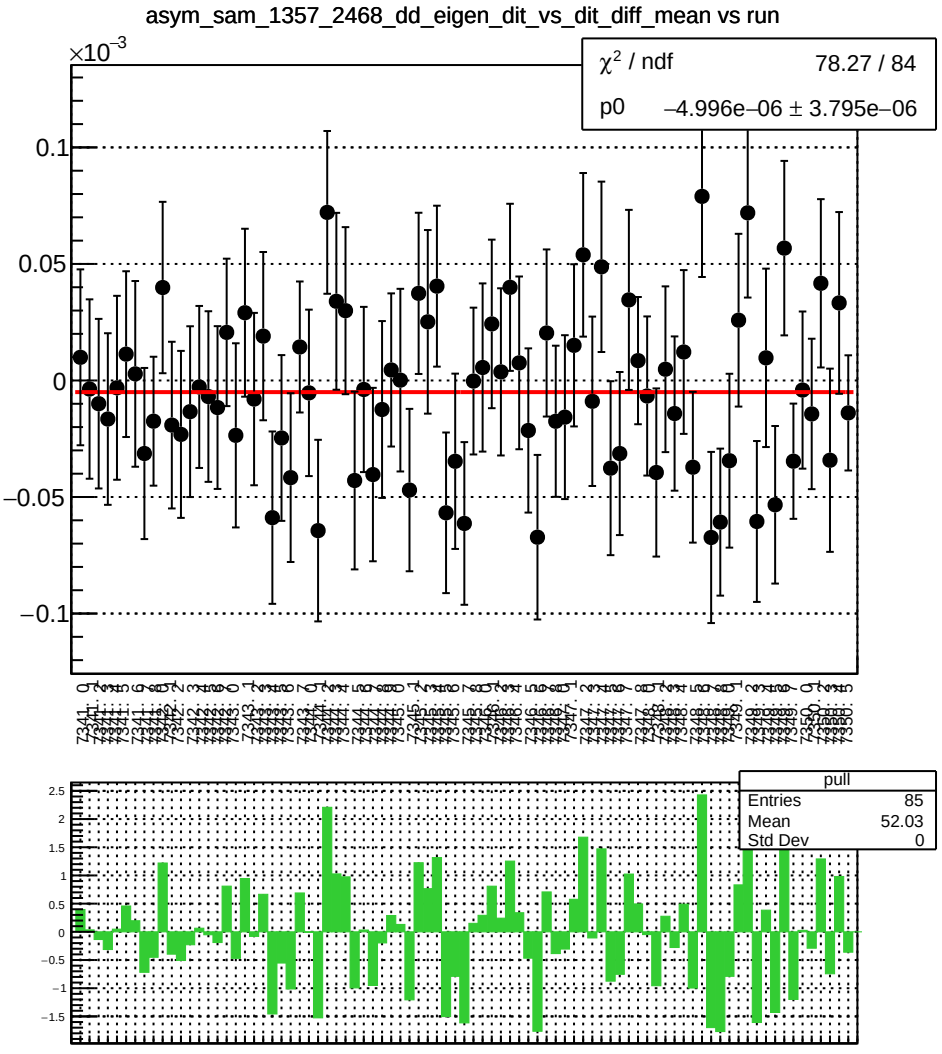

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.68 / 84
p0 0.00727 ± 0.03799
pull
Entries 85
Mean −4.004
Std Dev 0

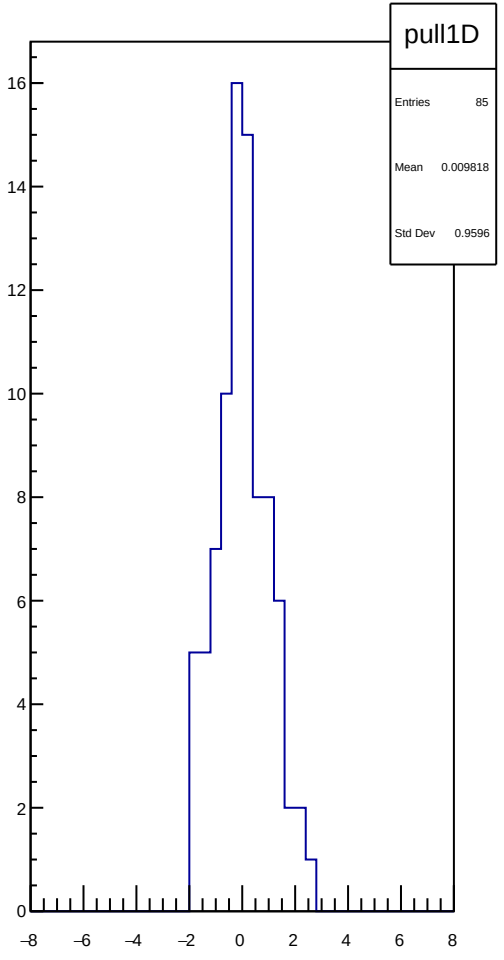

pull1D
Entries 85
Mean 0.0318
Std Dev 0.9554

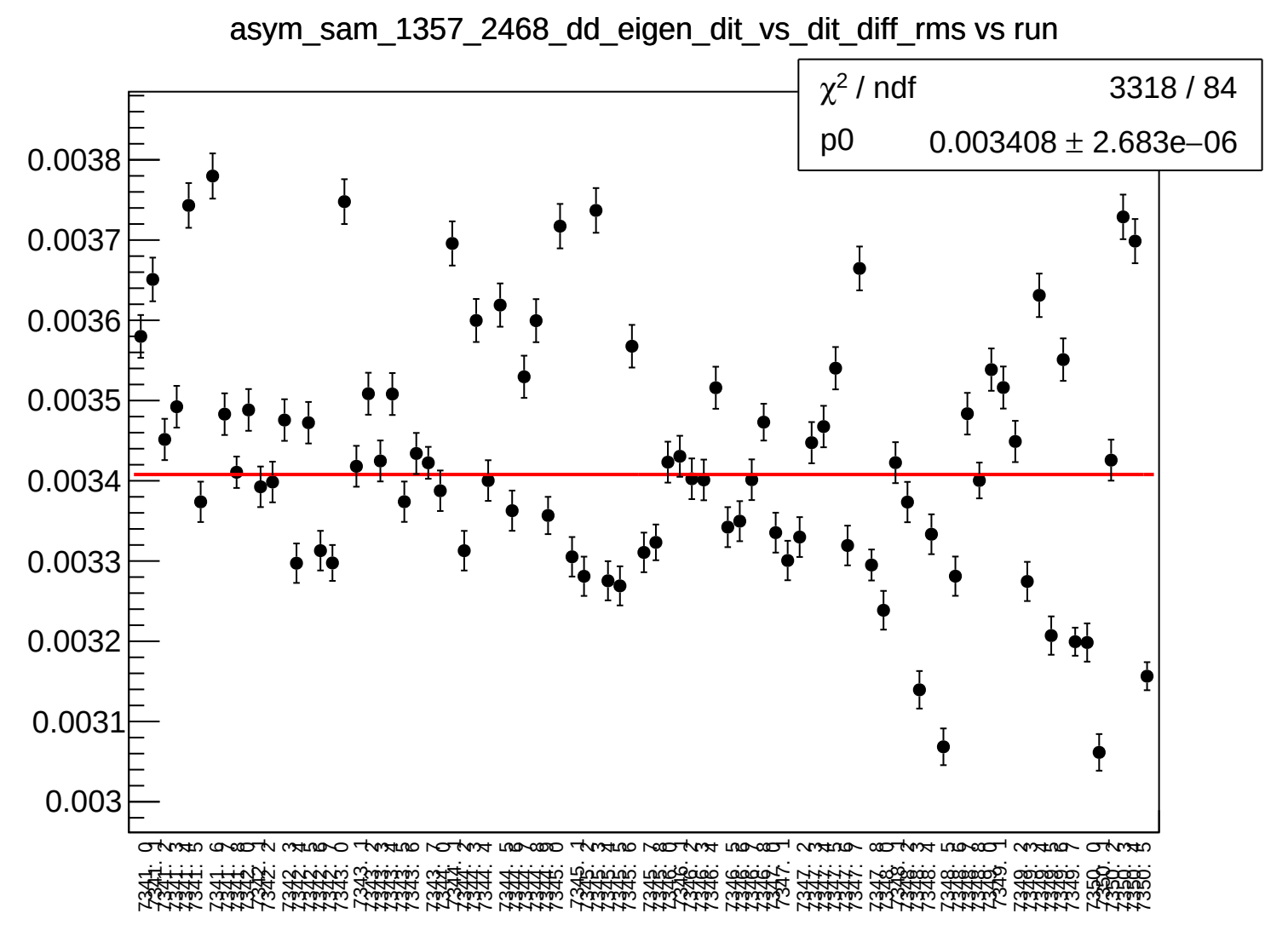

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.598e+04 / 84
p0 33.23 ± 0.02686
100
90
80
70
60
50
40
30

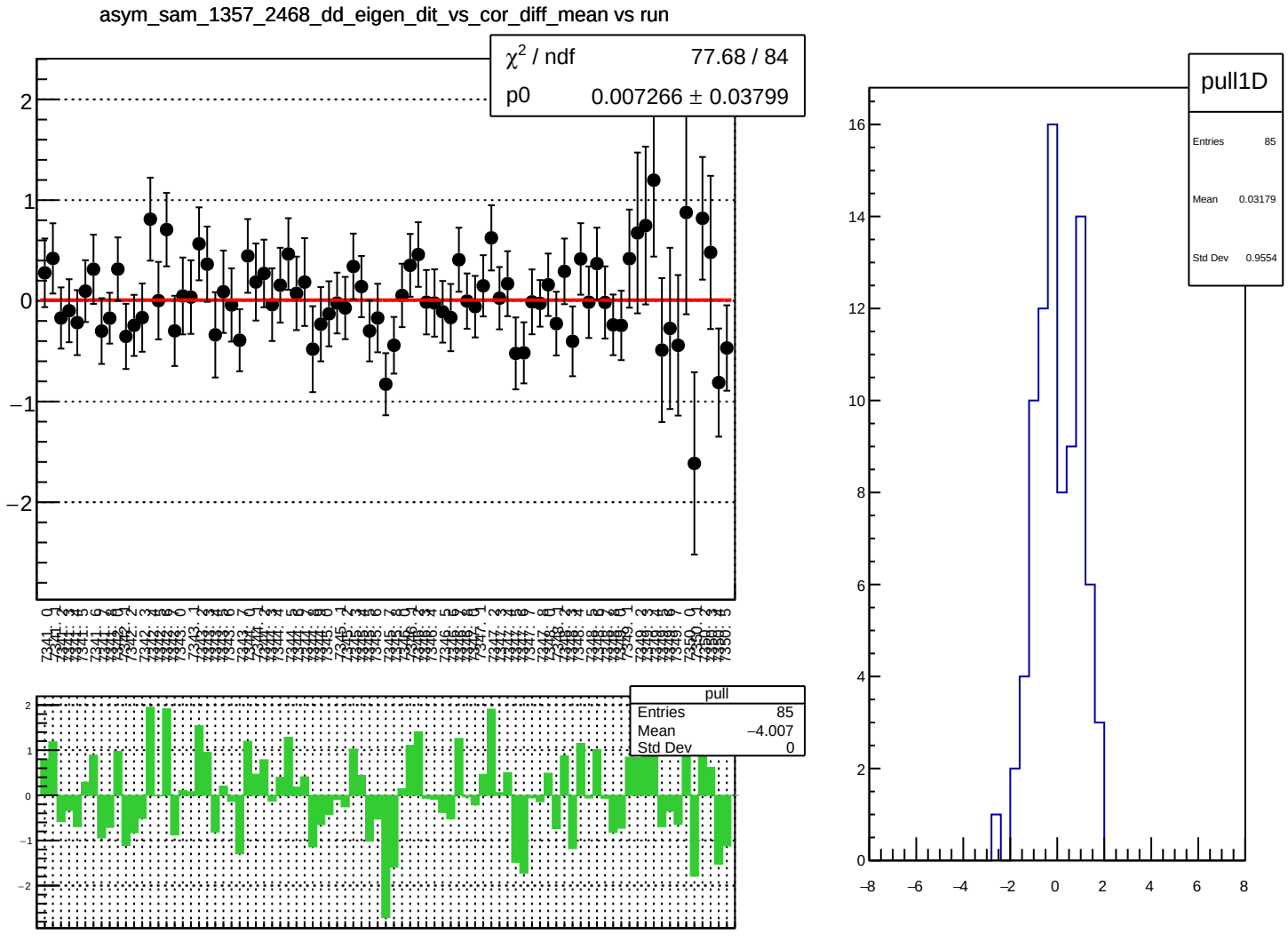

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.68 / 84
p0 0.00727 ± 0.03799
pull
Entries 85
Mean −4.004
Std Dev 0
pull1D
Entries 85
Mean 0.0318
Std Dev 0.9554

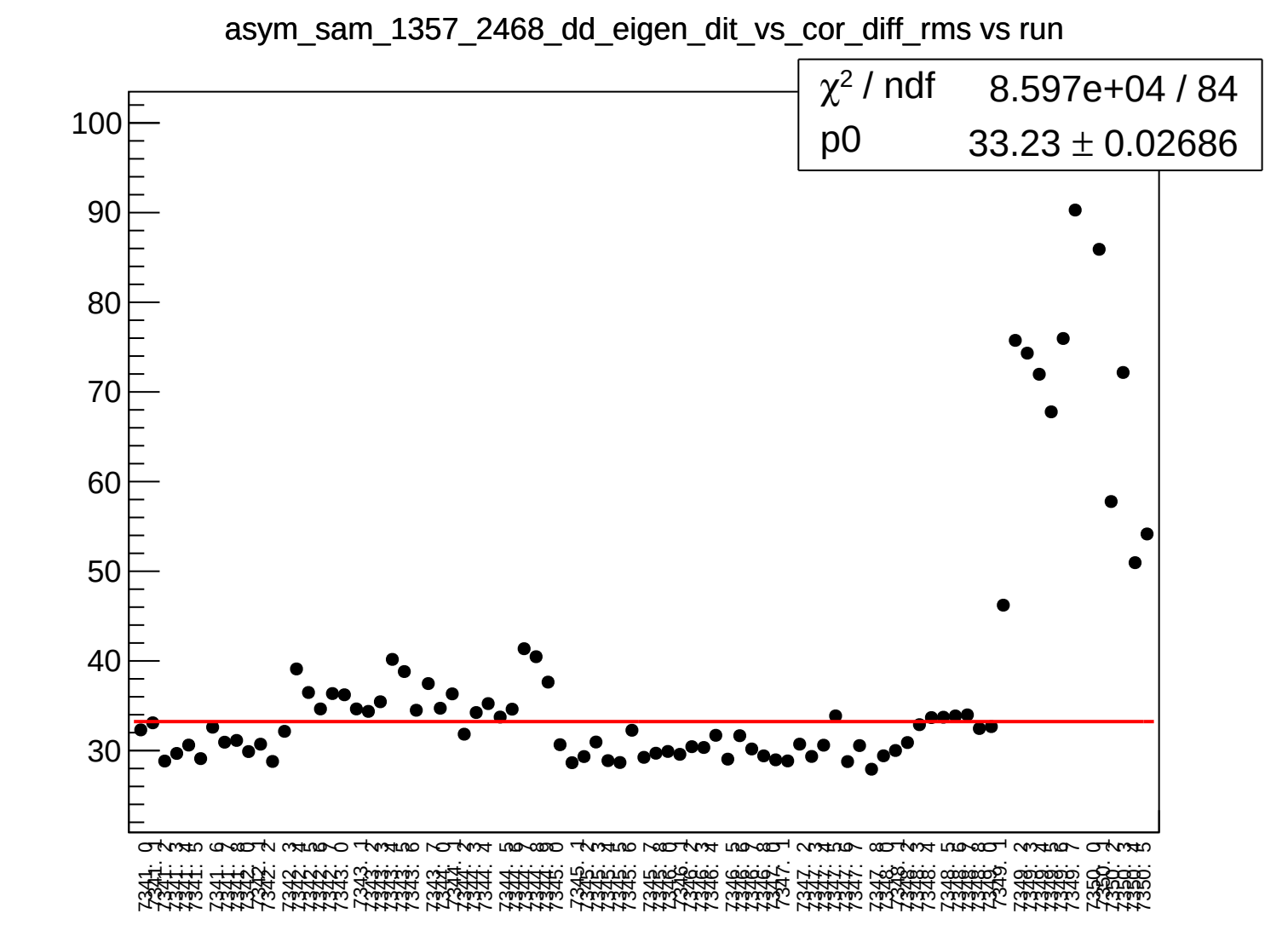

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.598e+04 / 84
p0 33.23 ± 0.02686
100
90
80
70
60
50
40
30

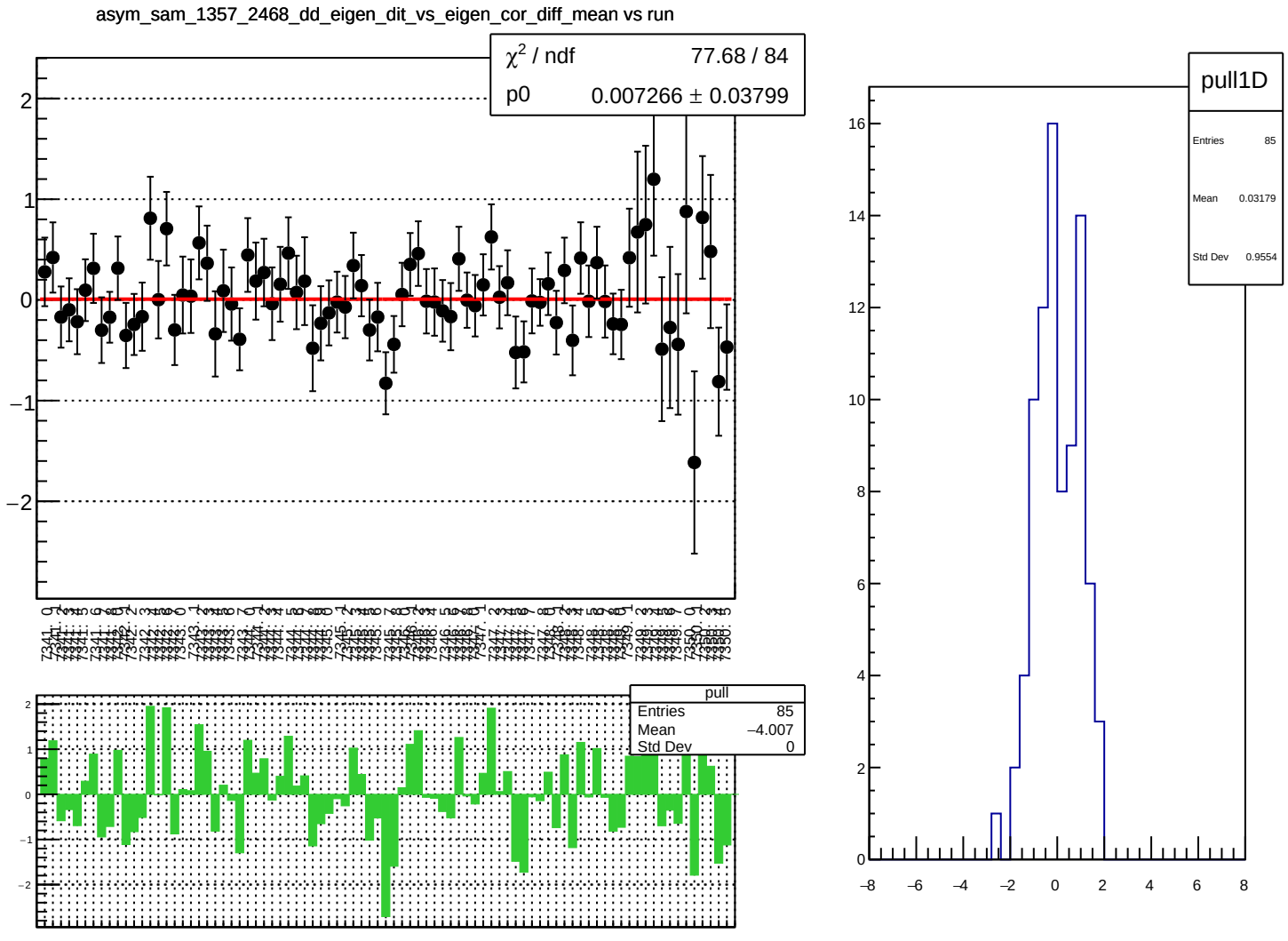

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.27 / 84
p0 −4.996e−06 ± 3.795e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 85
Mean 52.03
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

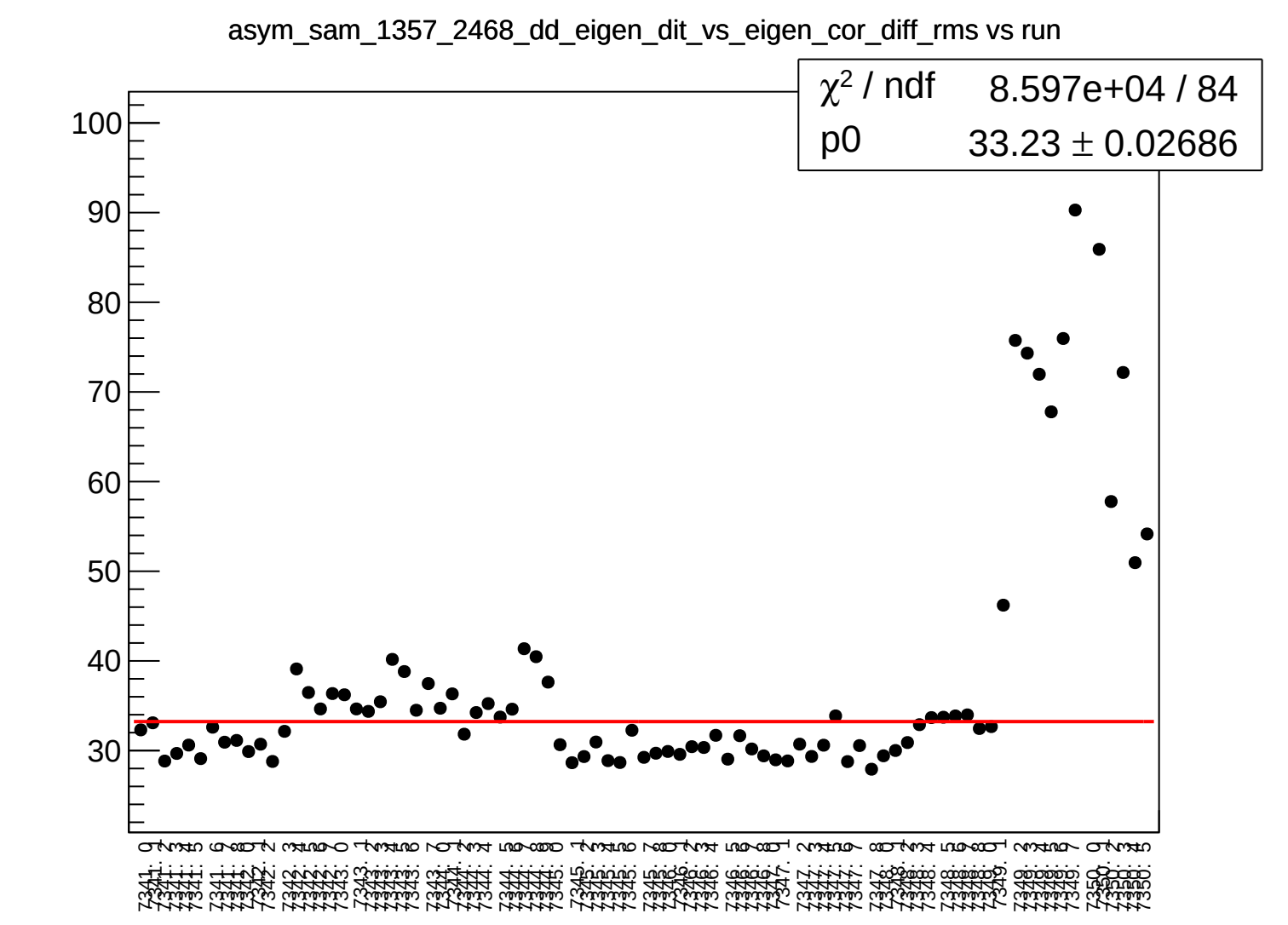

pull1D
Entries 85
Mean 0.009818
Std Dev 0.9596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

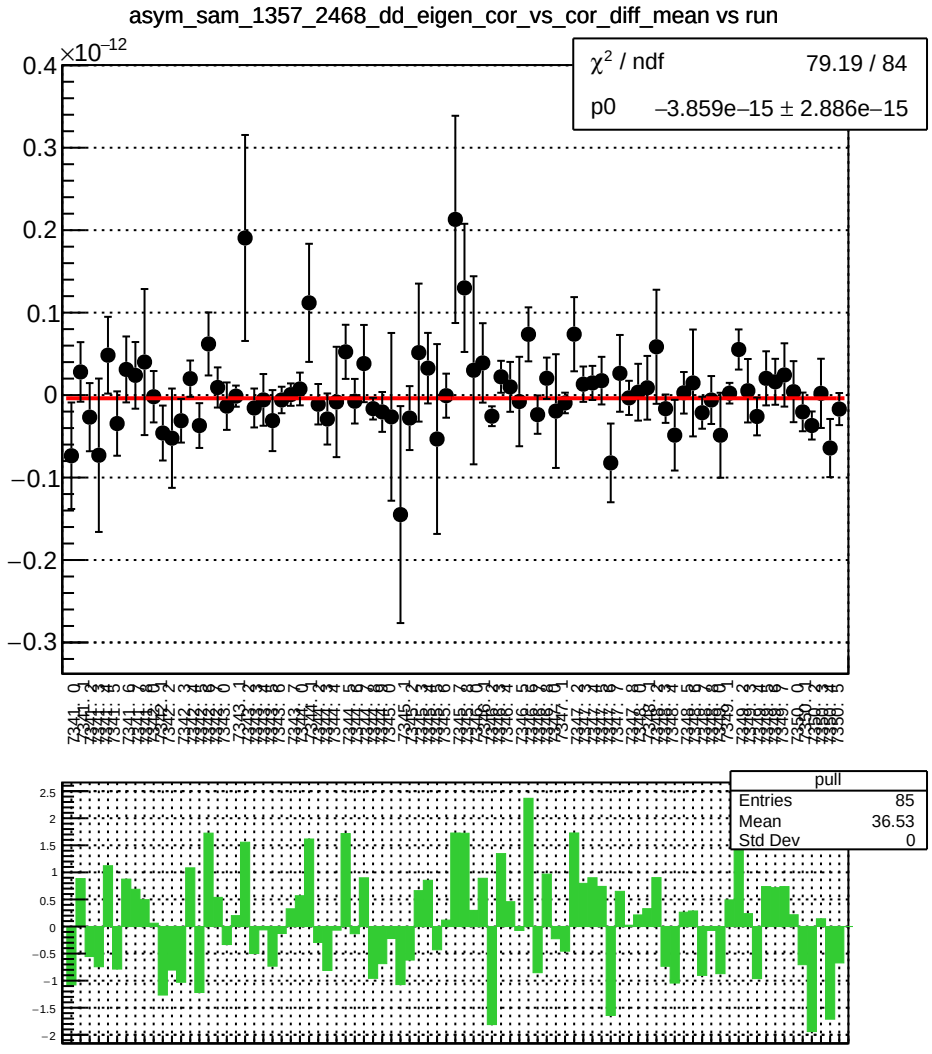

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3318 / 84
p0 0.003408 ± 2.683e−06
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

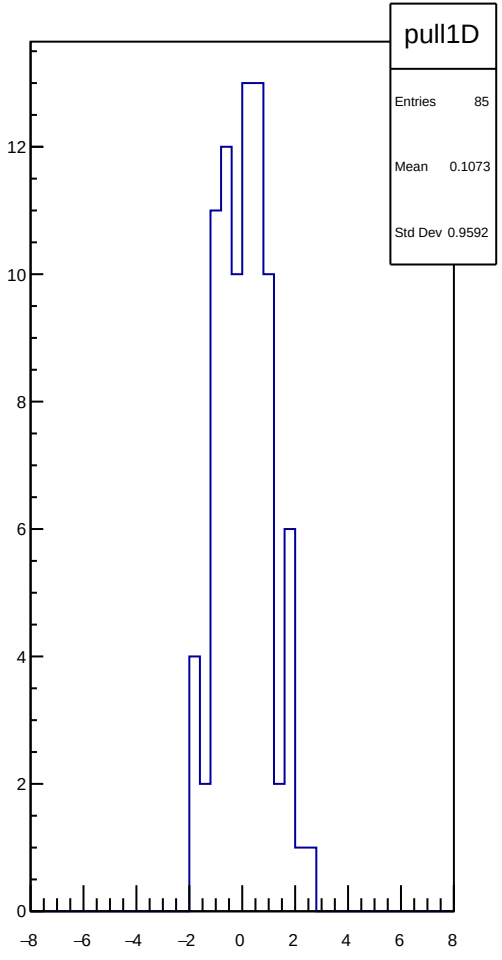

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.68 / 84
p0 0.007266 ± 0.03799
pull
Entries 85
Mean −4.007
Std Dev 0
pull1D
Entries 85
Mean 0.03179
Std Dev 0.9554

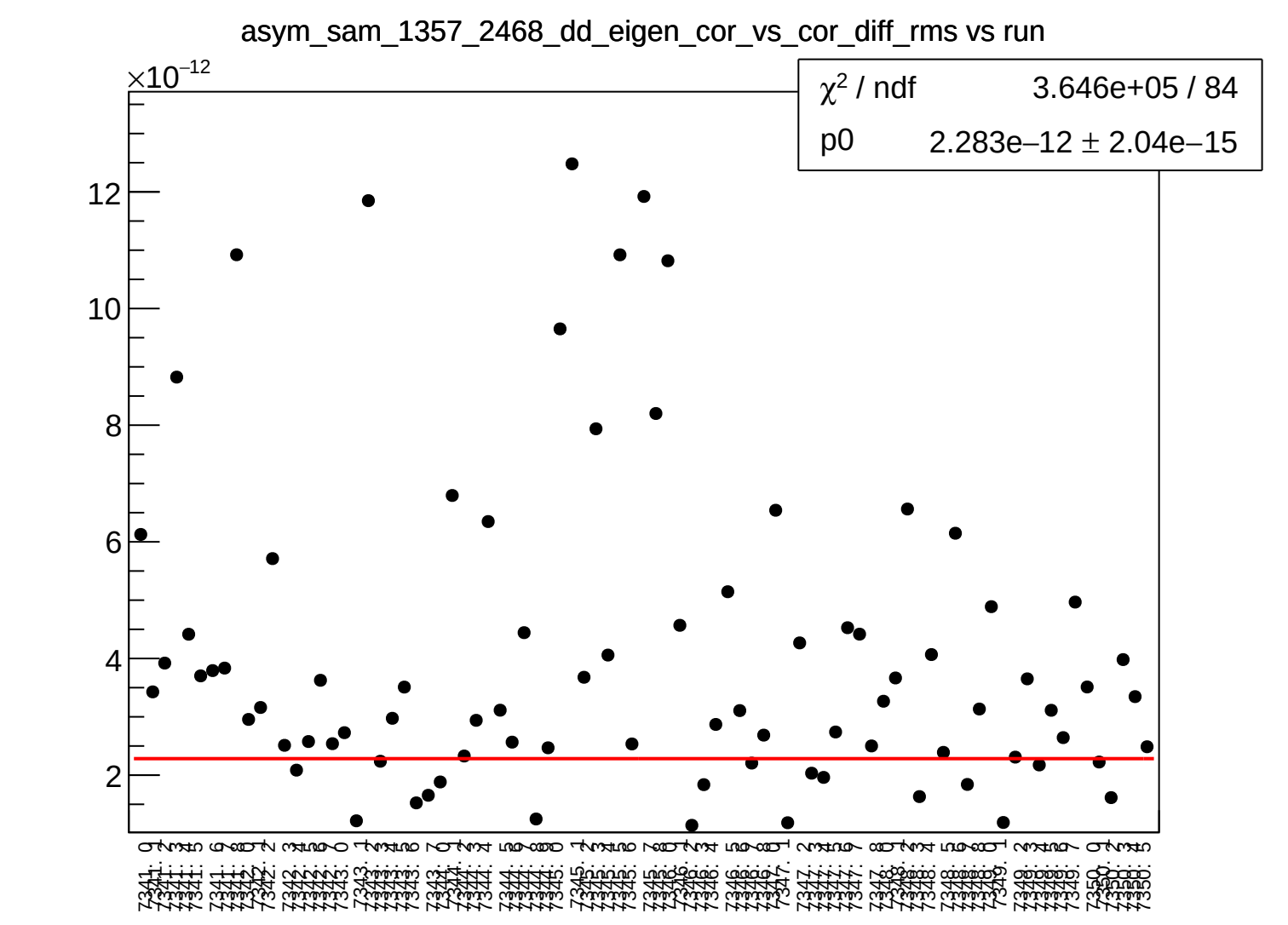

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.597e+04 / 84
p0 33.23 ± 0.02686
100
90
80
70
60
50
40
30

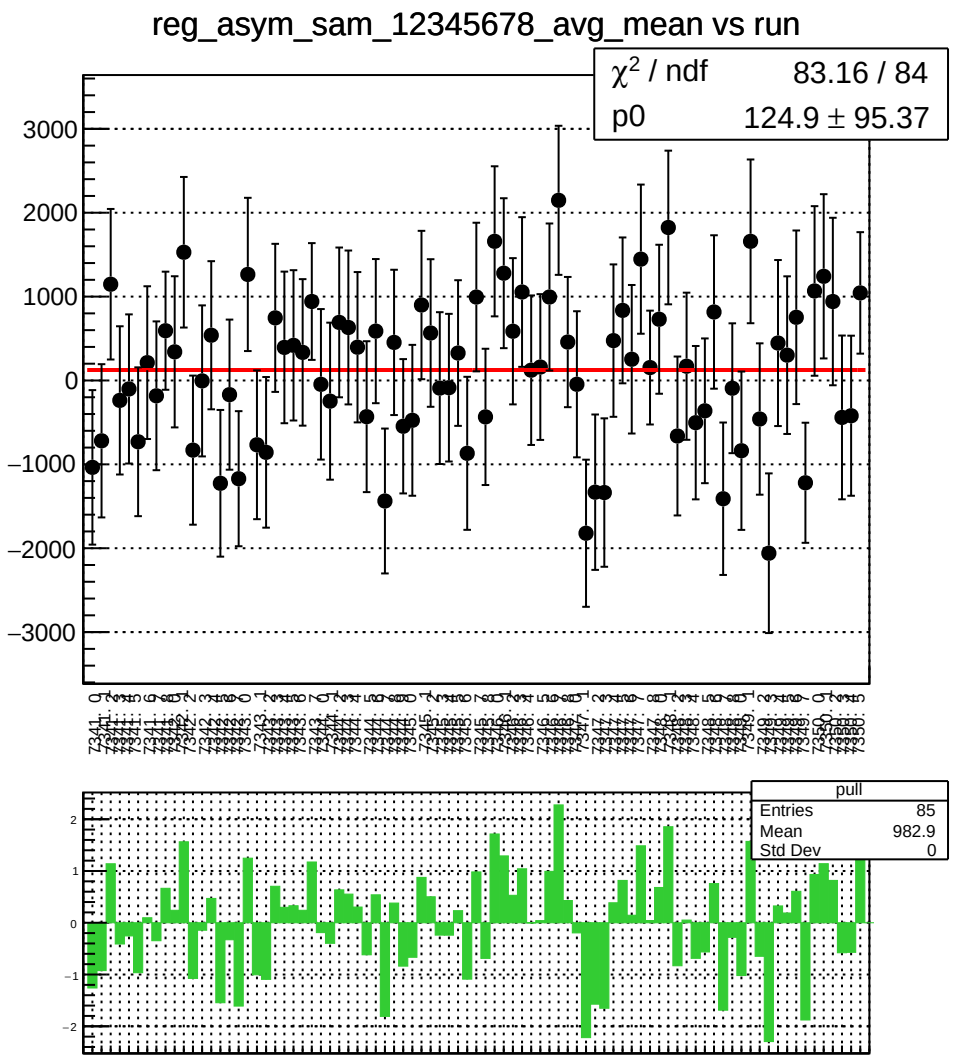

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.68 / 84
p0 0.007266 ± 0.03799
pull
Entries 85
Mean −4.007
Std Dev 0
pull1D
Entries 85
Mean 0.03179
Std Dev 0.9554

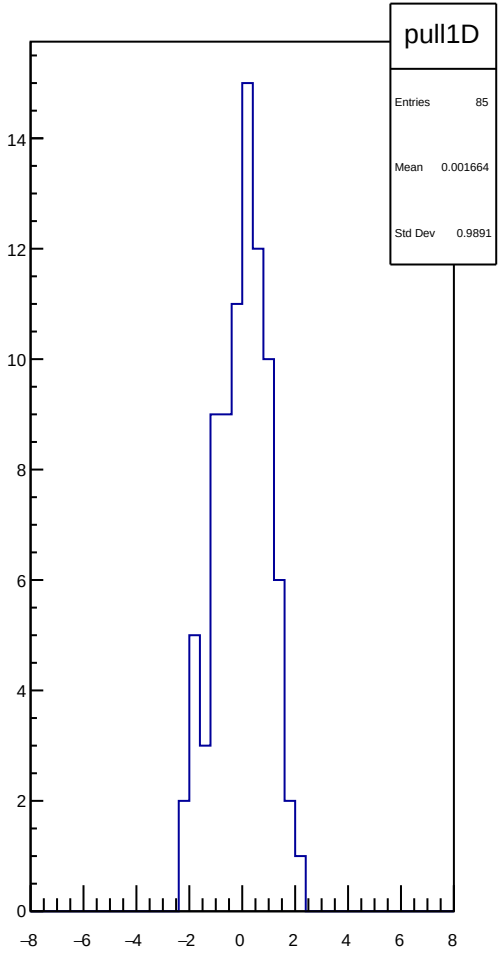

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.597e+04 / 84
p0 33.23 ± 0.02686
100
90
80
70
60
50
40
30

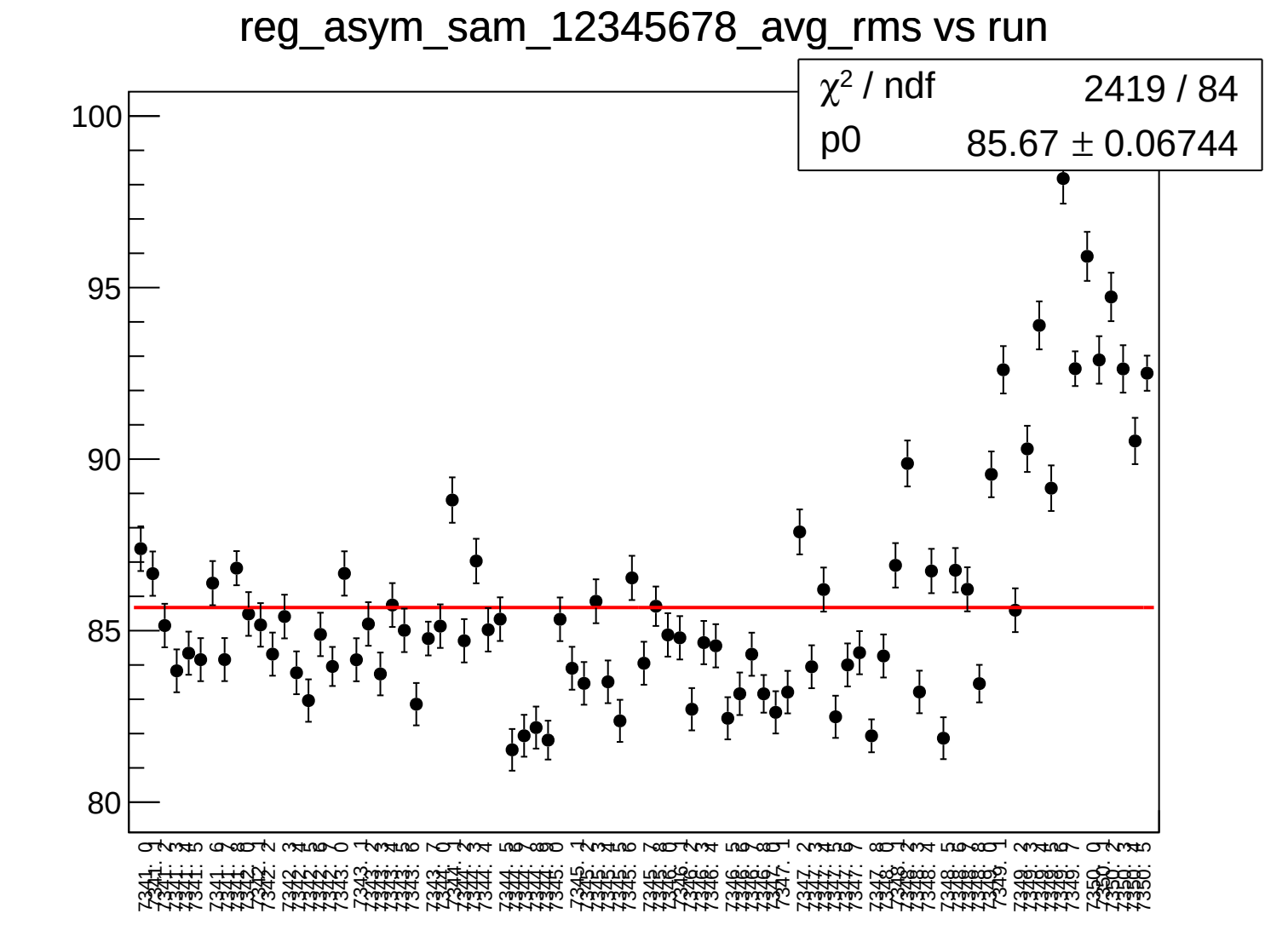

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.19 / 84
p0 −3.859e−15 ± 2.886e−15
pull
Entries 85
Mean 36.53
Std Dev 0

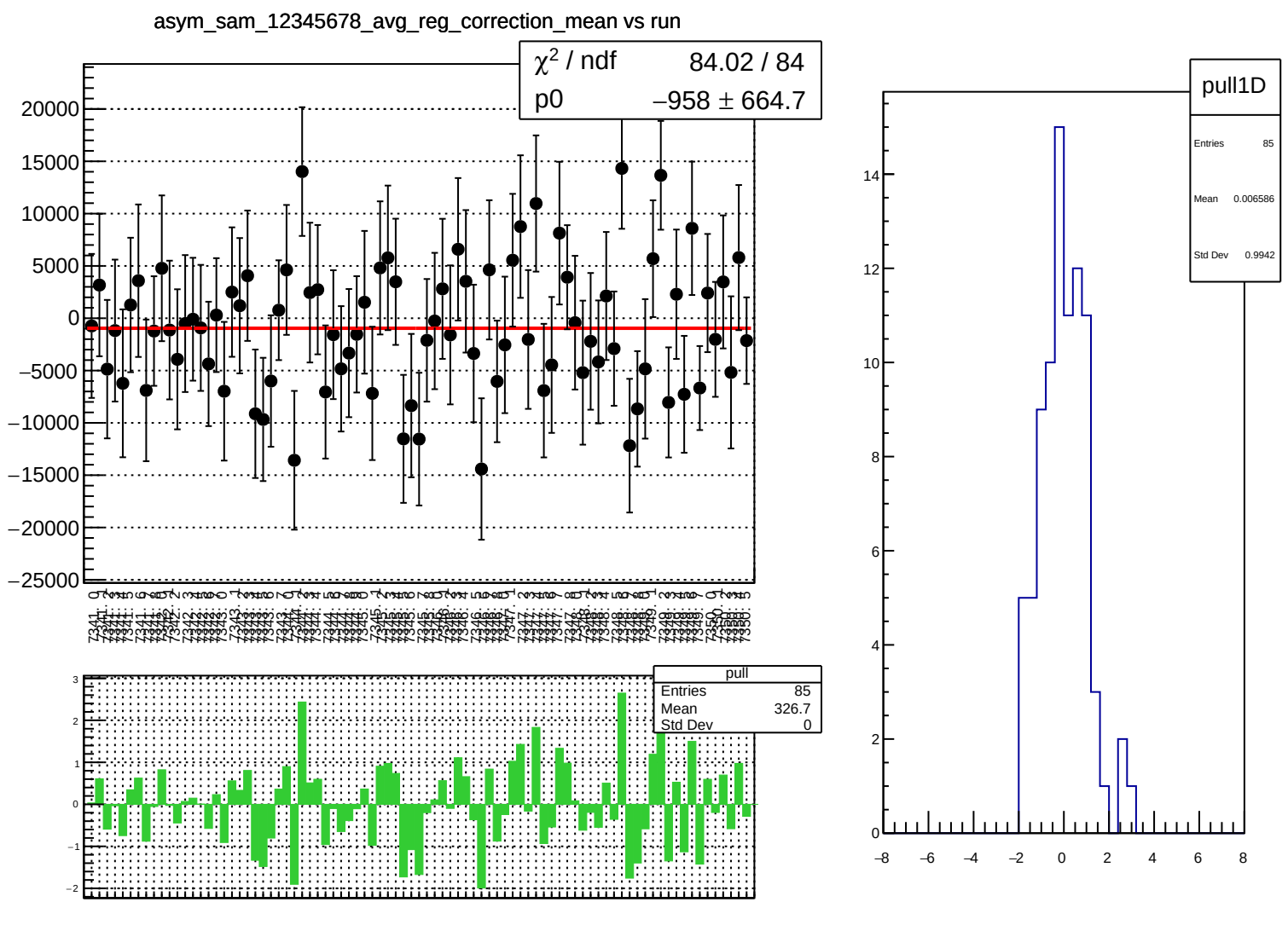

pull1D
Entries 85
Mean 0.1073
Std Dev 0.9592

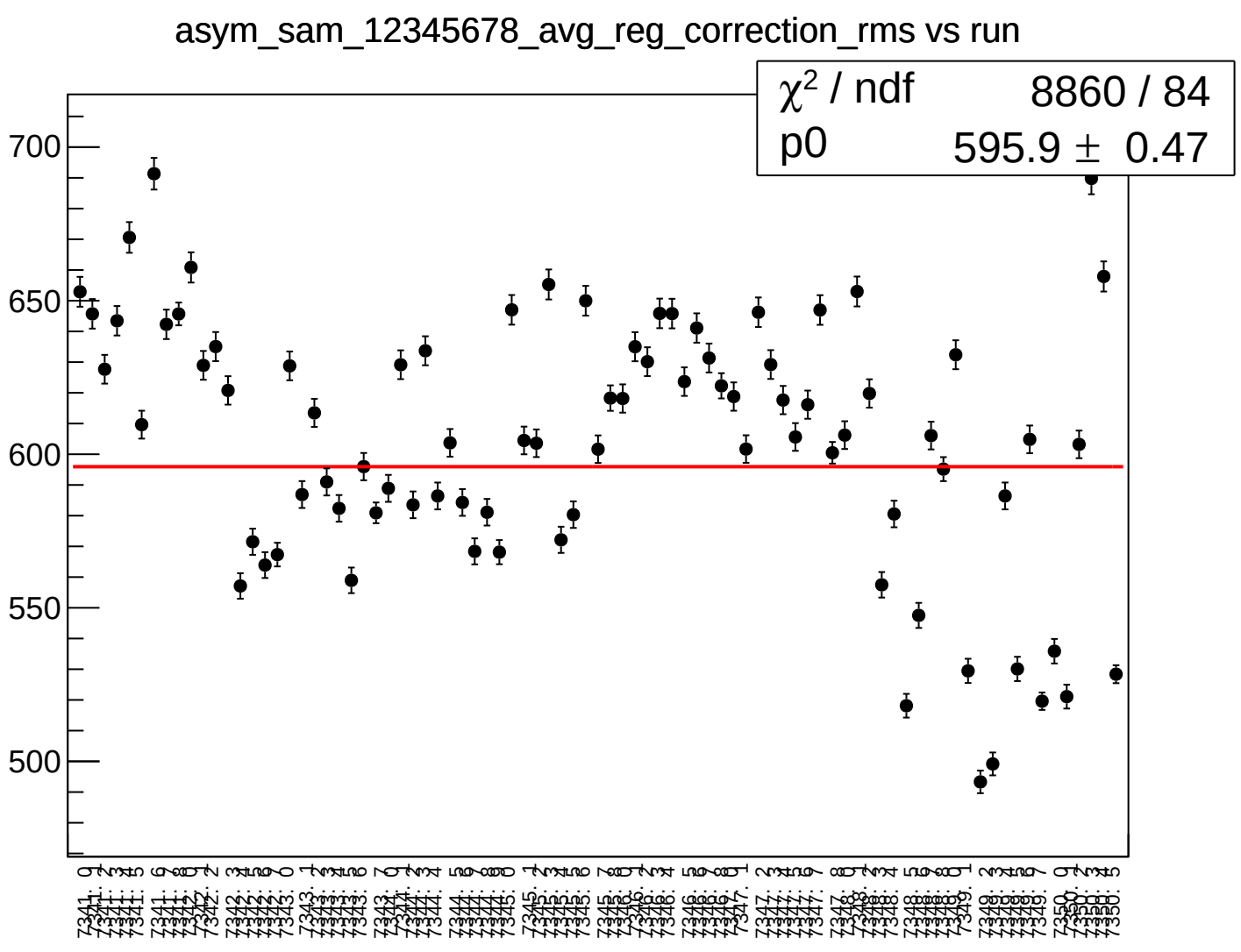

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.646e+05 / 84
p0 2.283e−12 ± 2.04e−15
12
10
8
6
4
2

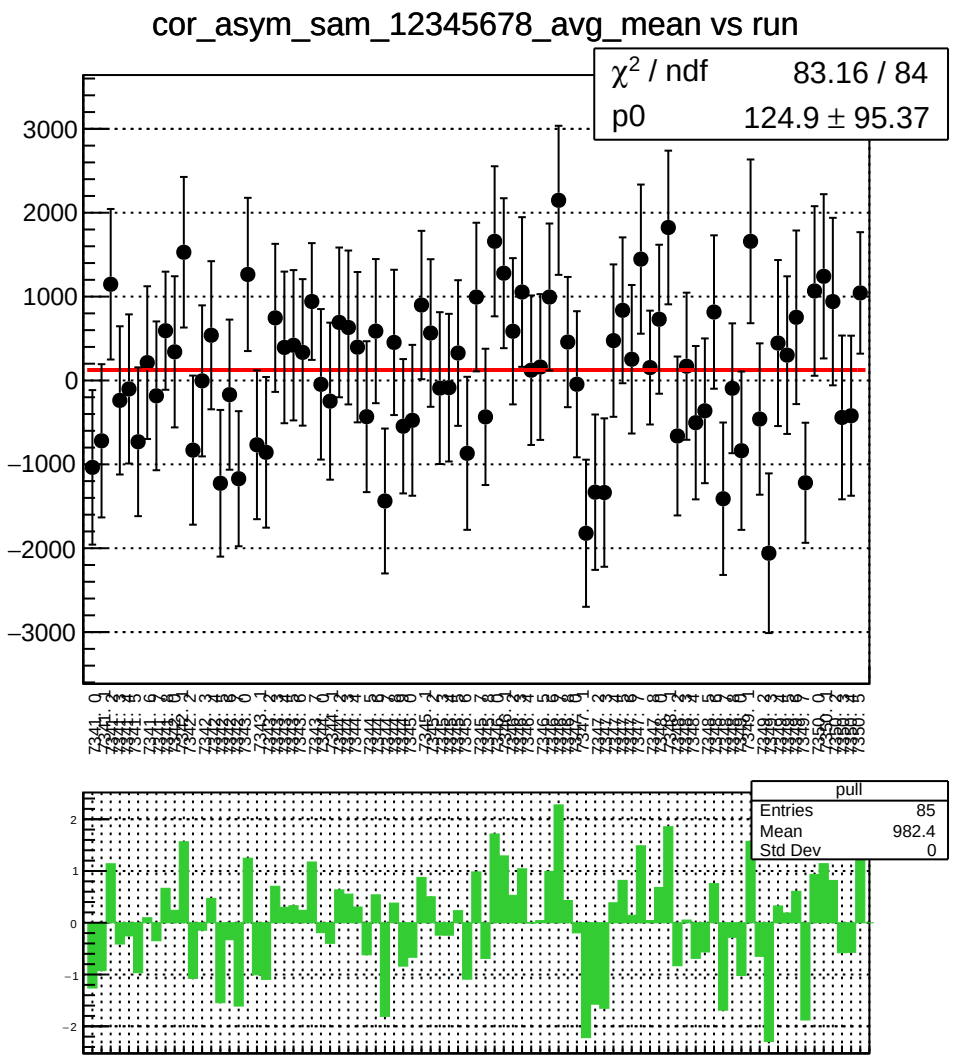

reg_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 83.16 / 84
p0 124.9 ± 95.37
pull
Entries 85
Mean 982.9
Std Dev 0

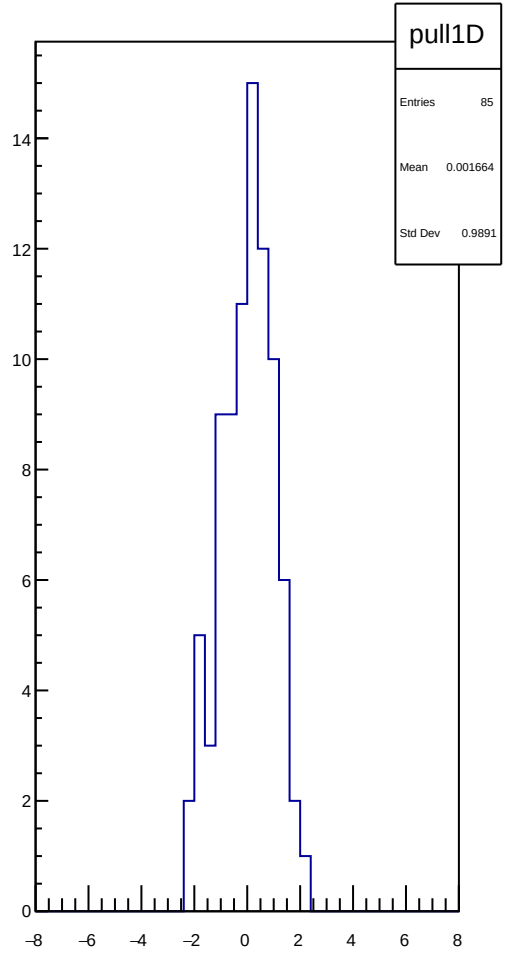

pull1D
Entries 85
Mean 0.001664
Std Dev 0.9891

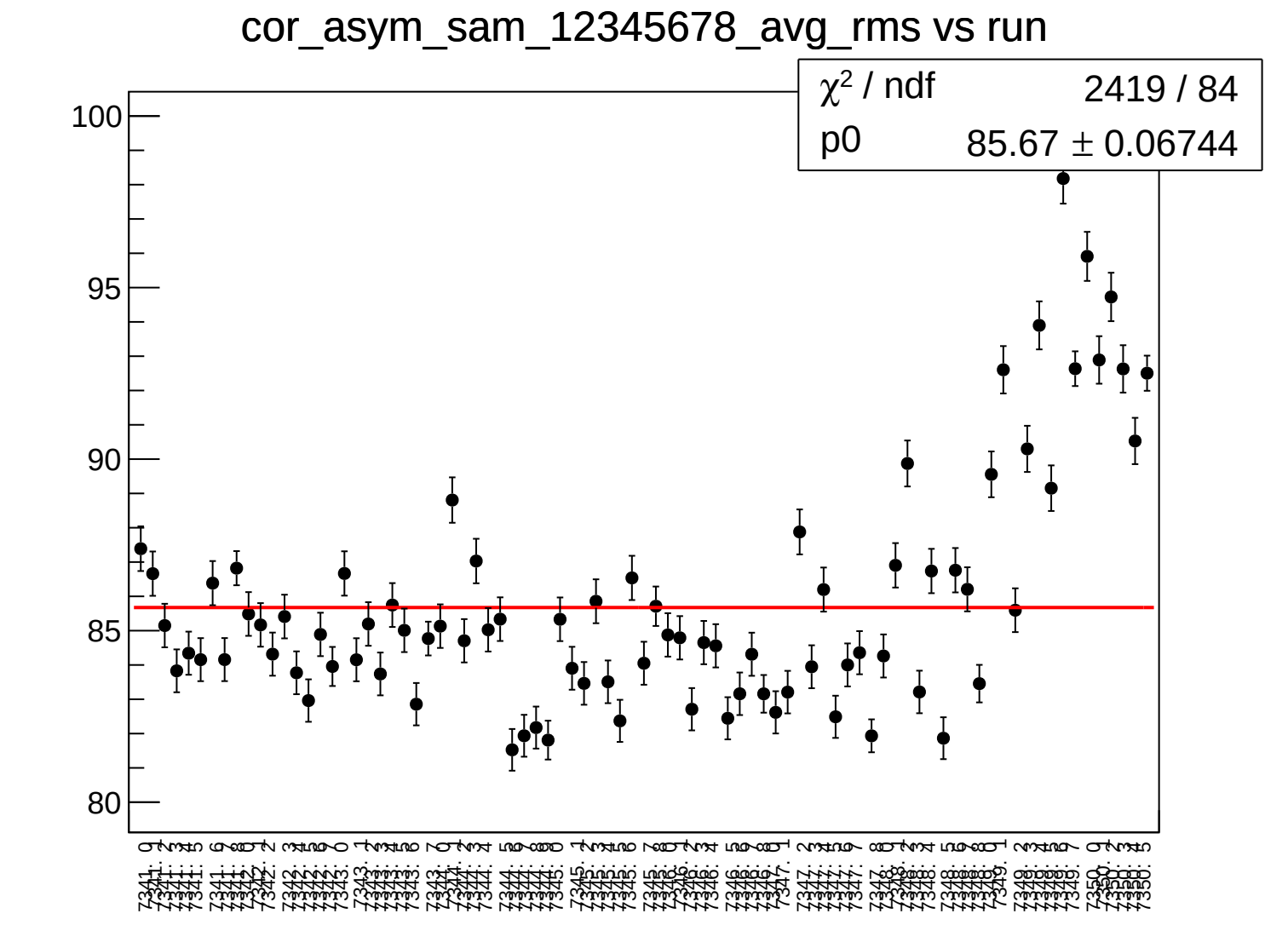

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2419 / 84
p0 85.67 ± 0.06744
100
95
90
85
80

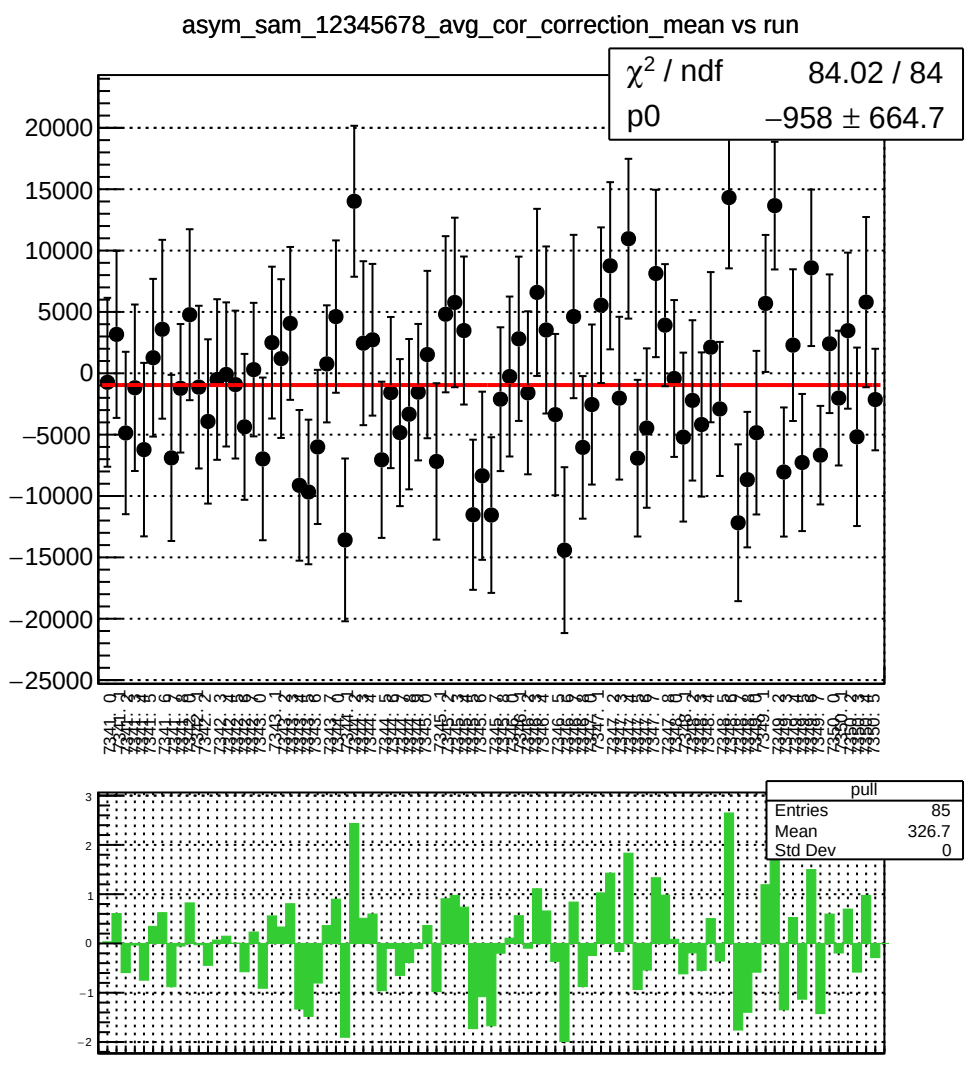

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 84.02 / 84
p0 −958 ± 664.7
pull
Entries 85
Mean 326.7
Std Dev 0
pull1D
Entries 85
Mean 0.006586
Std Dev 0.9942

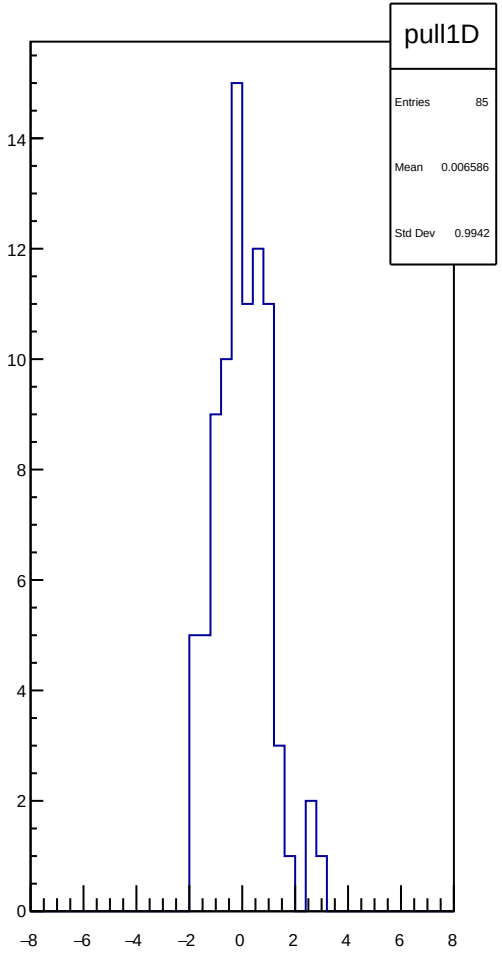

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 8860 / 84
p0 595.9 ± 0.47
700
650
600
550
500

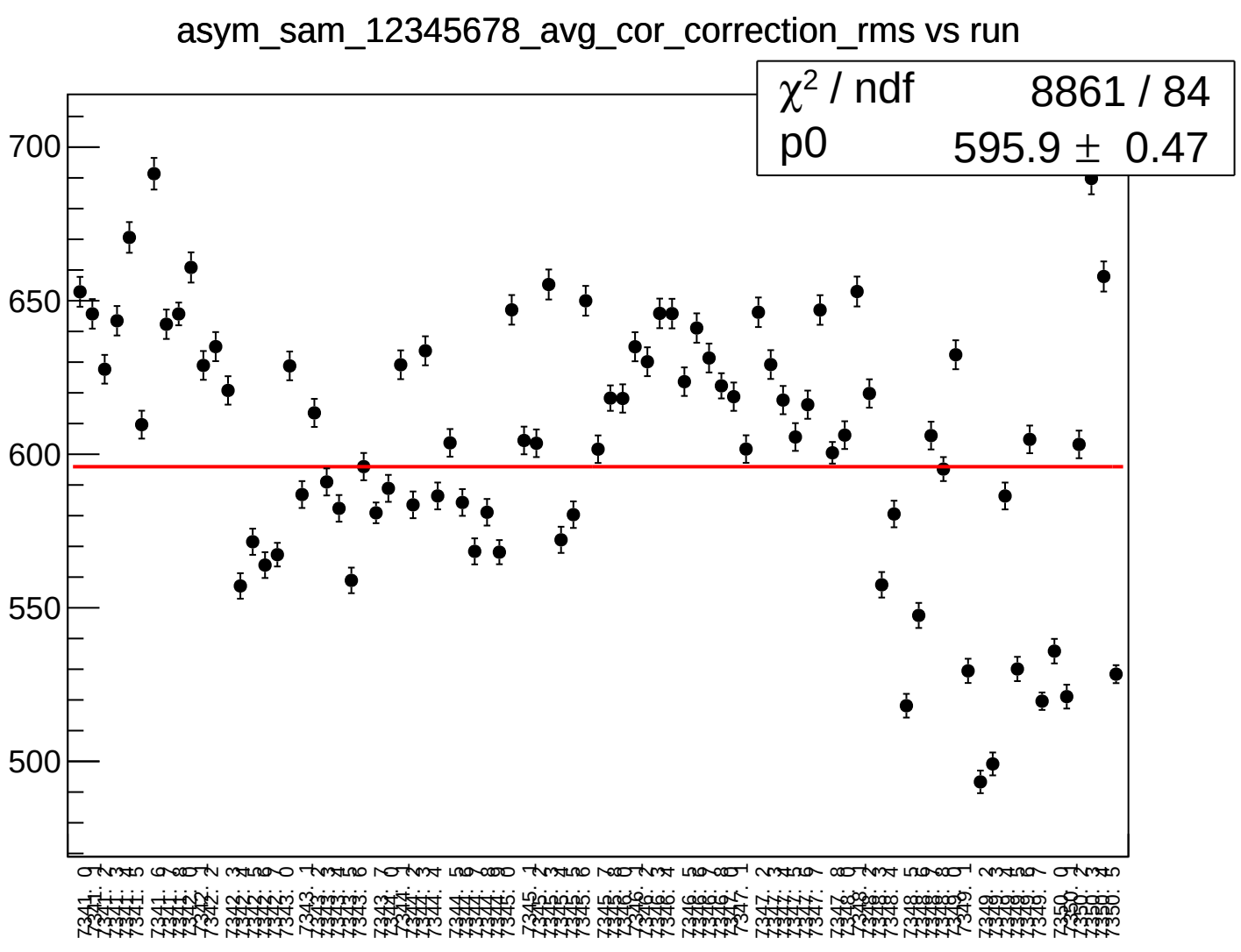

cor_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 83.16 / 84
p0 124.9 ± 95.37
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 982.4
Std Dev 0
2
1
0
−1
−2

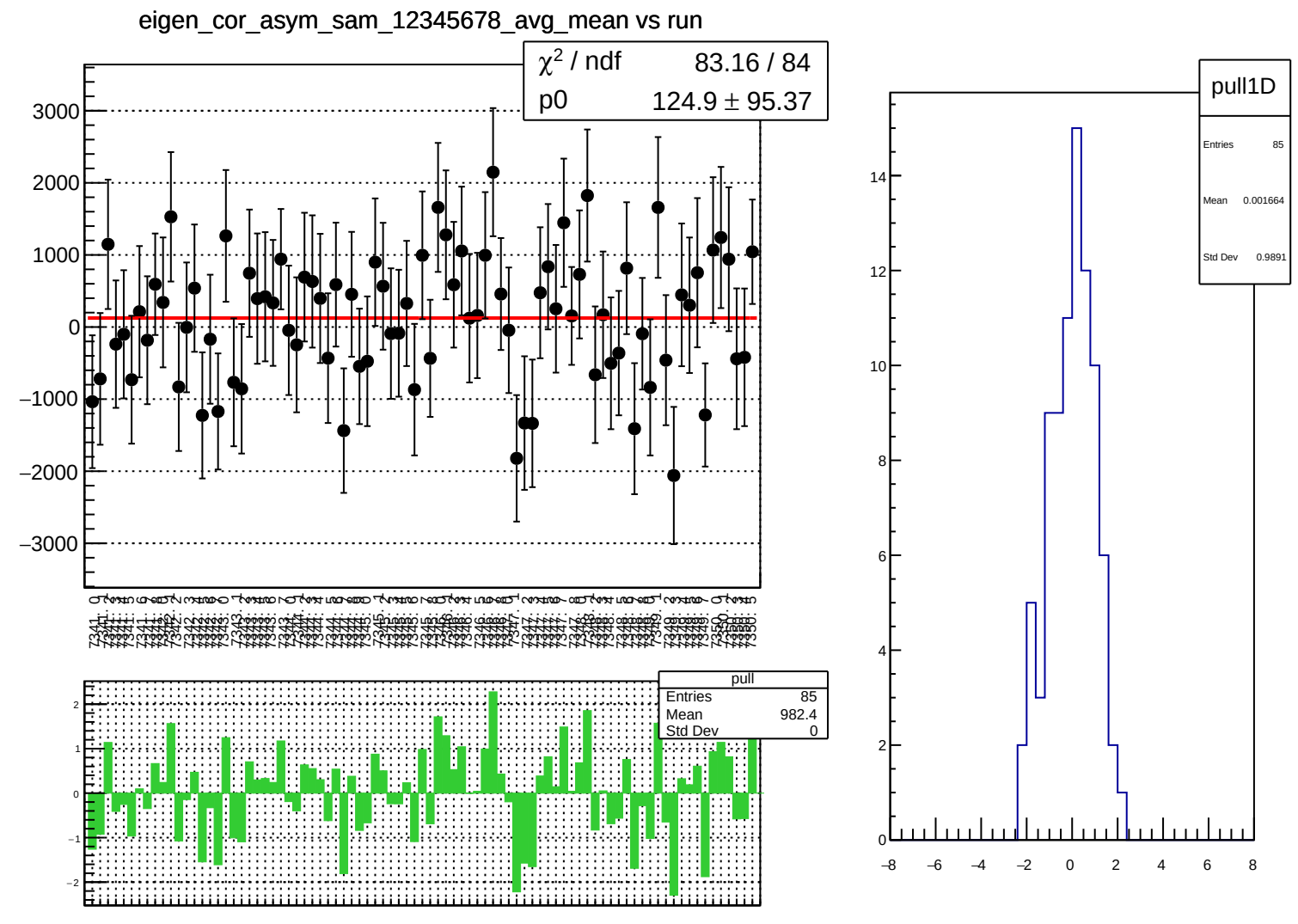

pull1D
Entries 85
Mean 0.001664
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

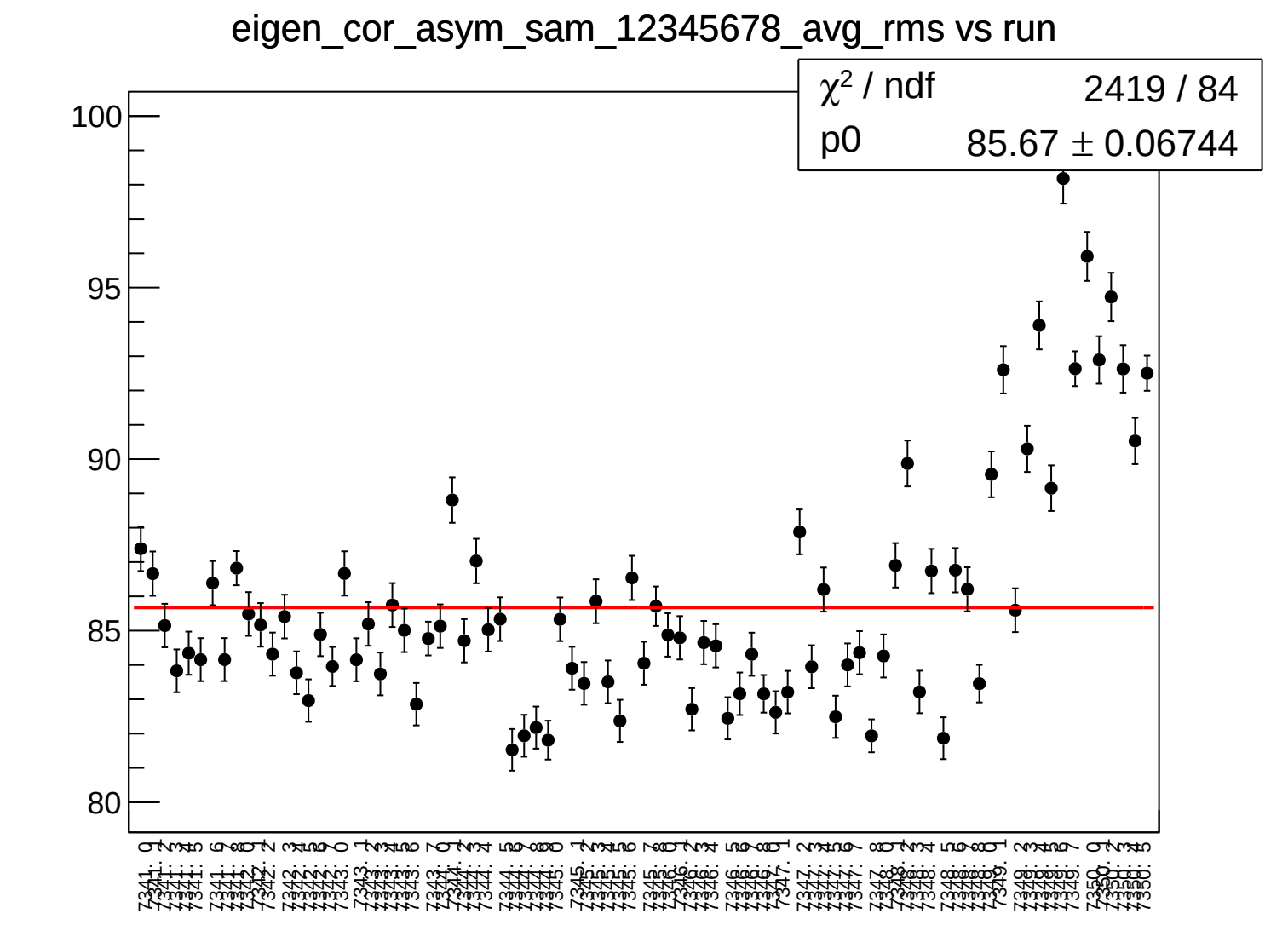

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2419 / 84
p0 85.67 ± 0.06744
100
95
90
85
80

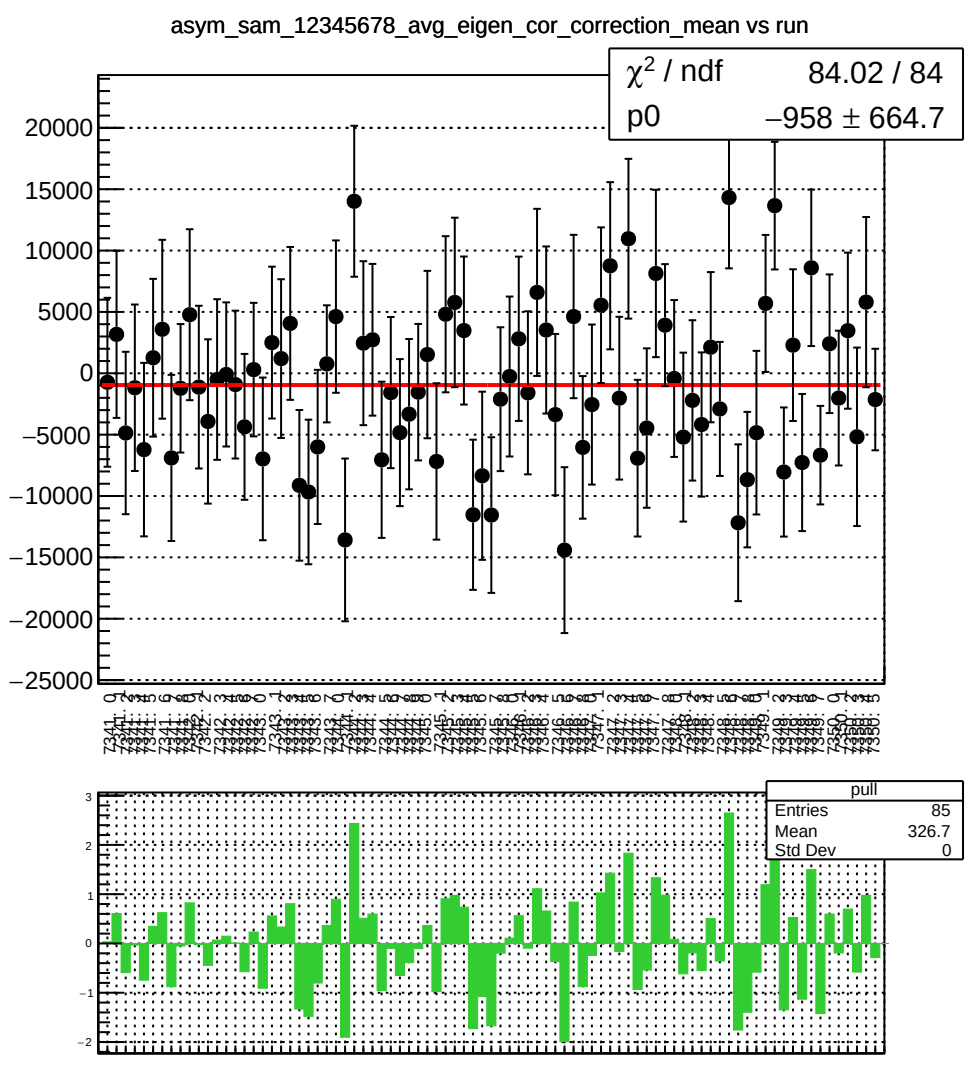

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 84.02 / 84
p0 −958 ± 664.7
pull
Entries 85
Mean 326.7
Std Dev 0

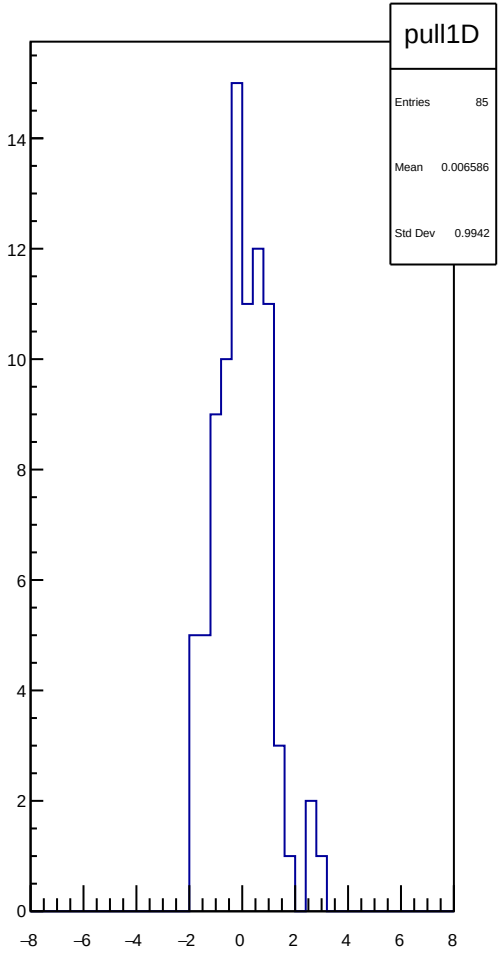

pull1D
Entries 85
Mean 0.006586
Std Dev 0.9942

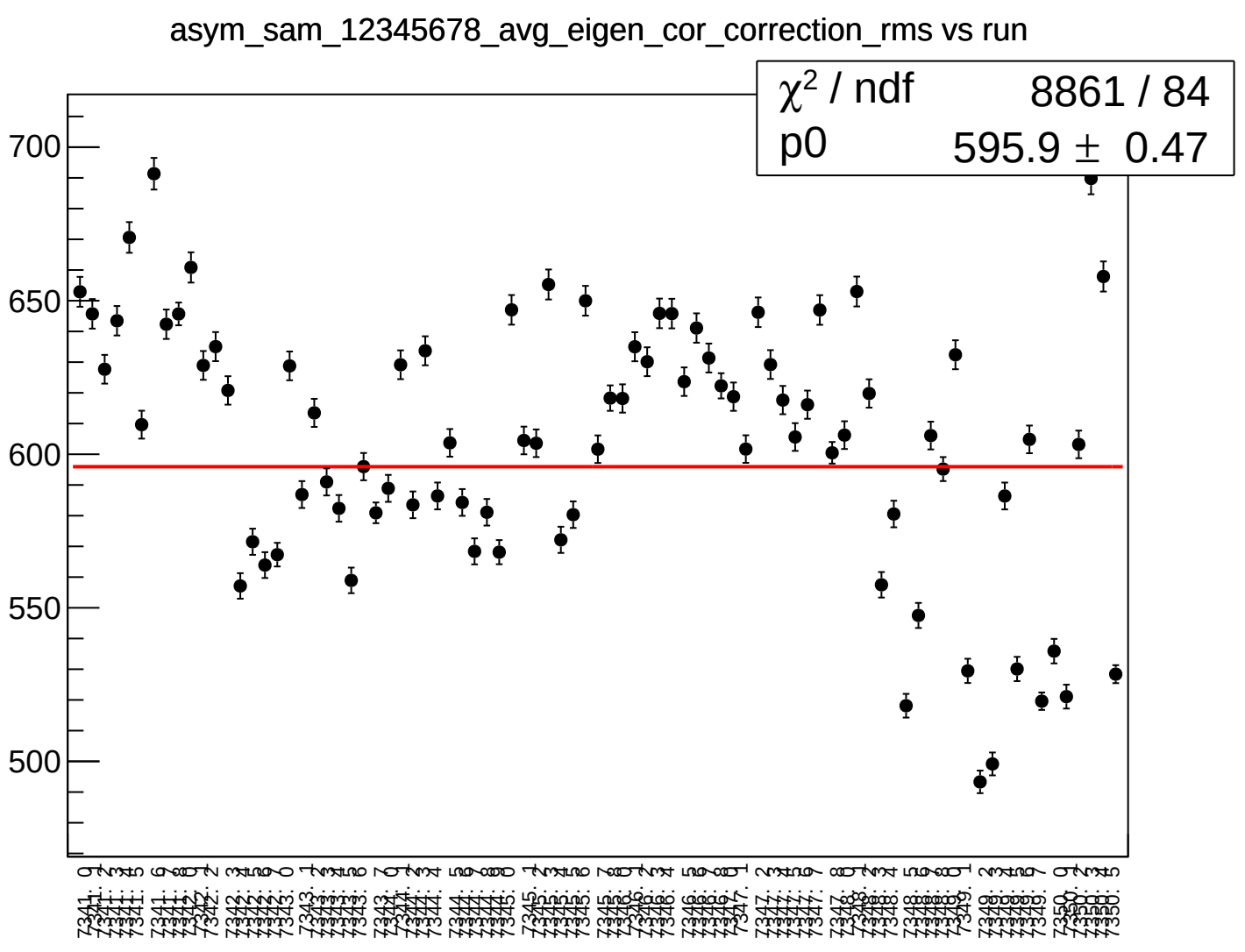

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 8861 / 84
p0 595.9 ± 0.47
700
650
600
550
500

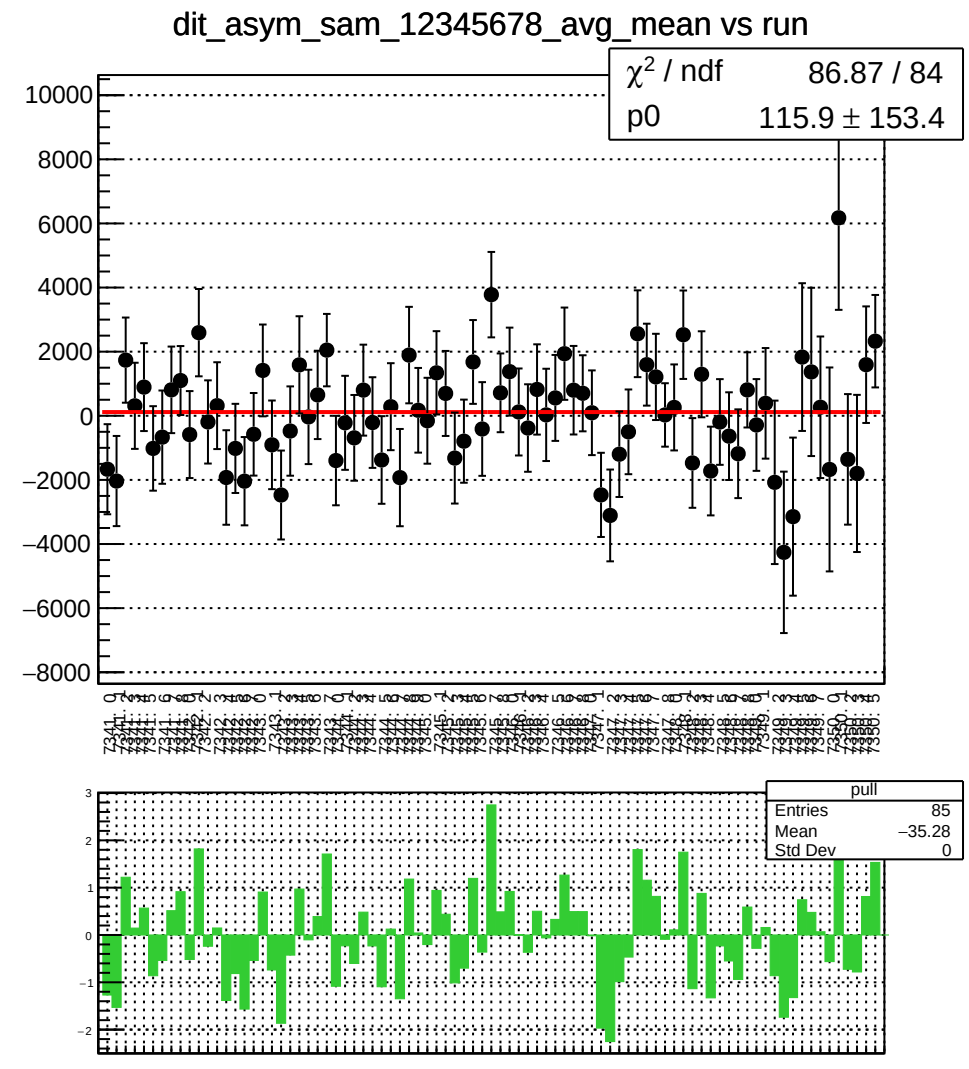

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 83.16 / 84
p0 124.9 ± 95.37
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 85
Mean 982.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 85
Mean 0.001664
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

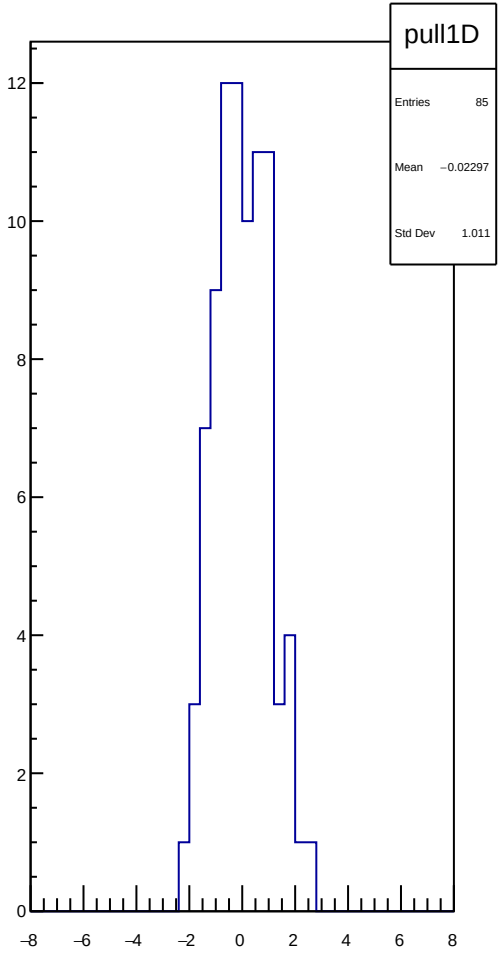

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2419 / 84
p0 85.67 ± 0.06744
100
95
90
85
80

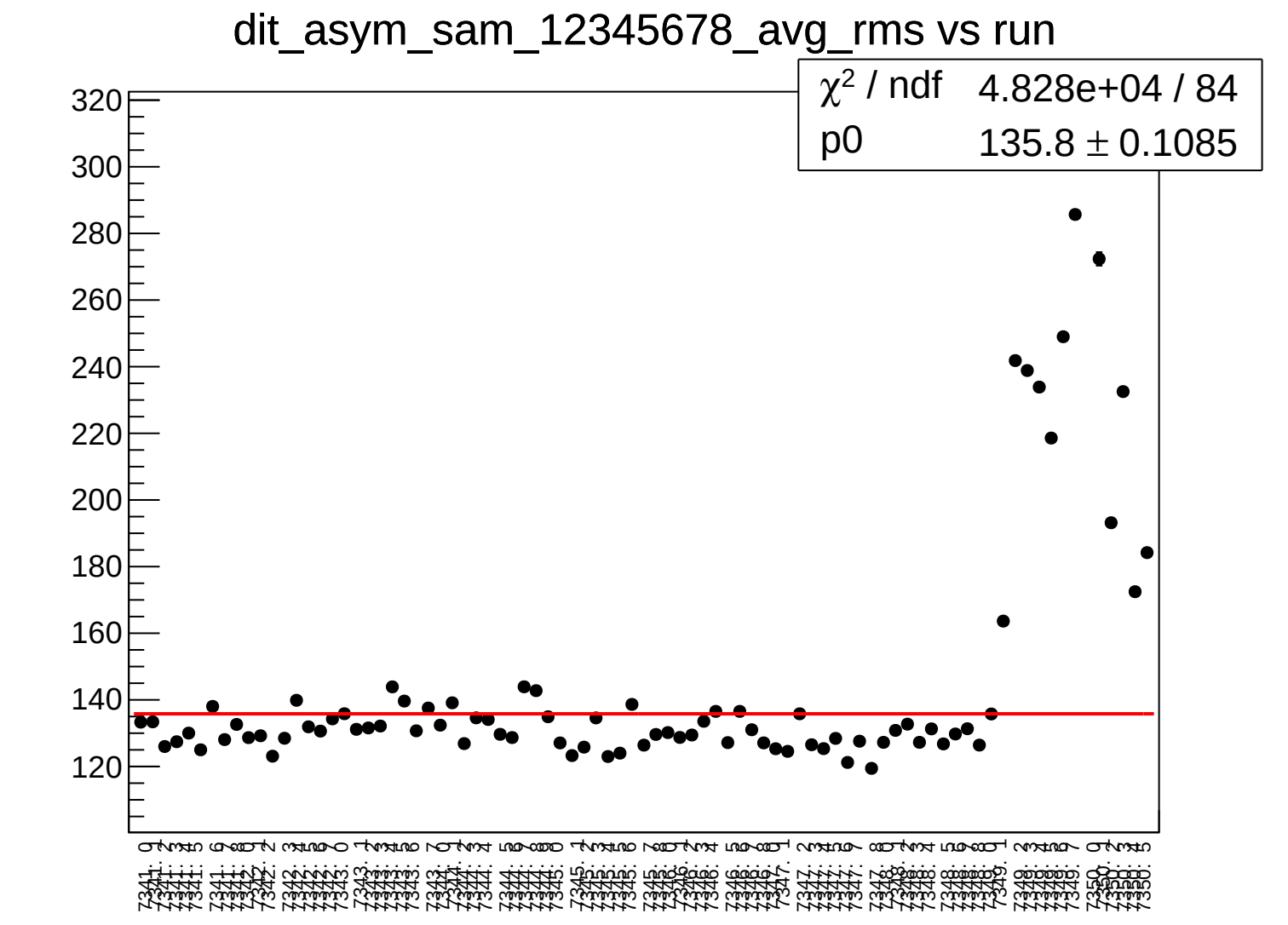

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.02 / 84
p0 −958 ± 664.7
pull
Entries 85
Mean 326.7
Std Dev 0

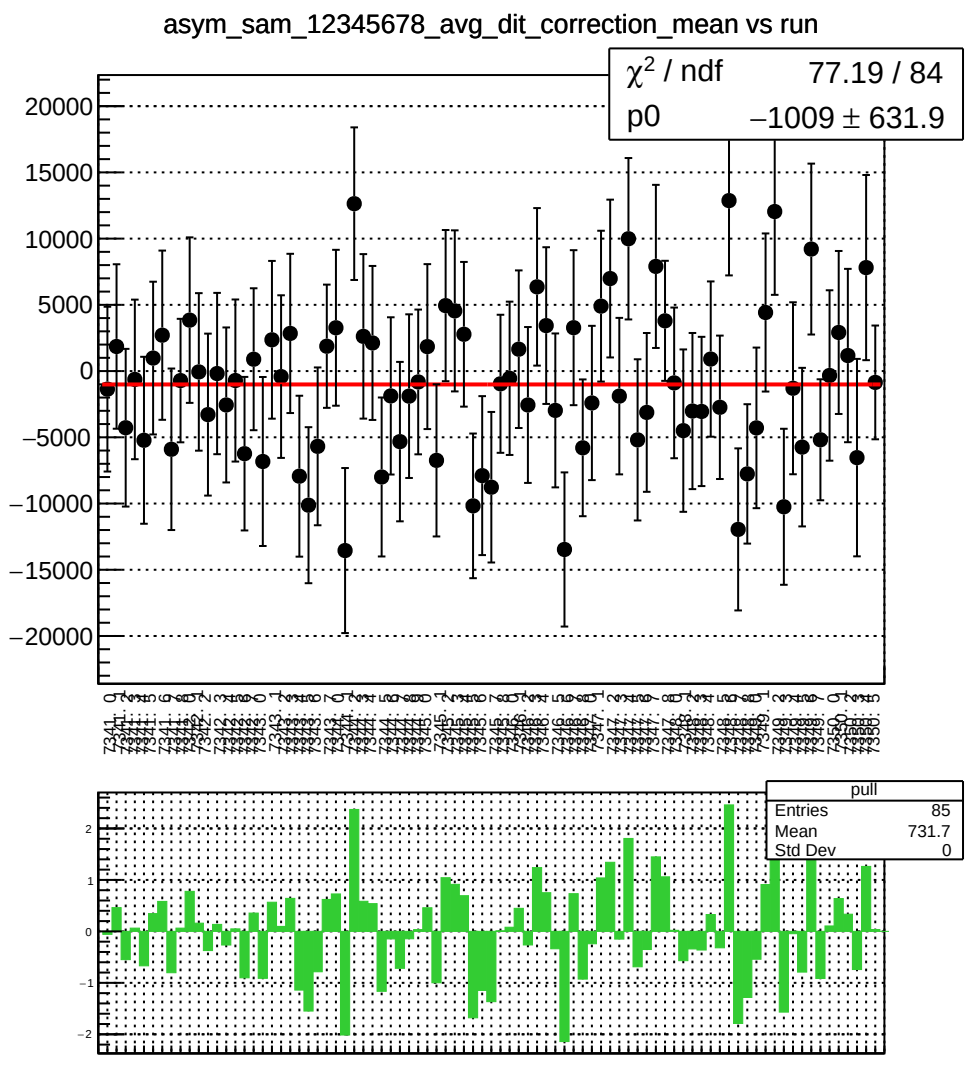

pull1D
Entries 85
Mean 0.006586
Std Dev 0.9942

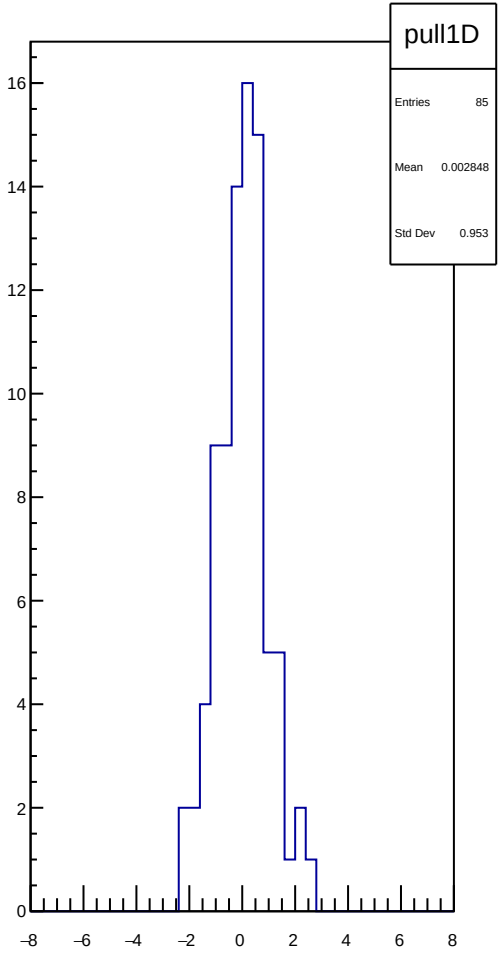

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 8861 / 84
p0 595.9 ± 0.47
700
650
600
550
500

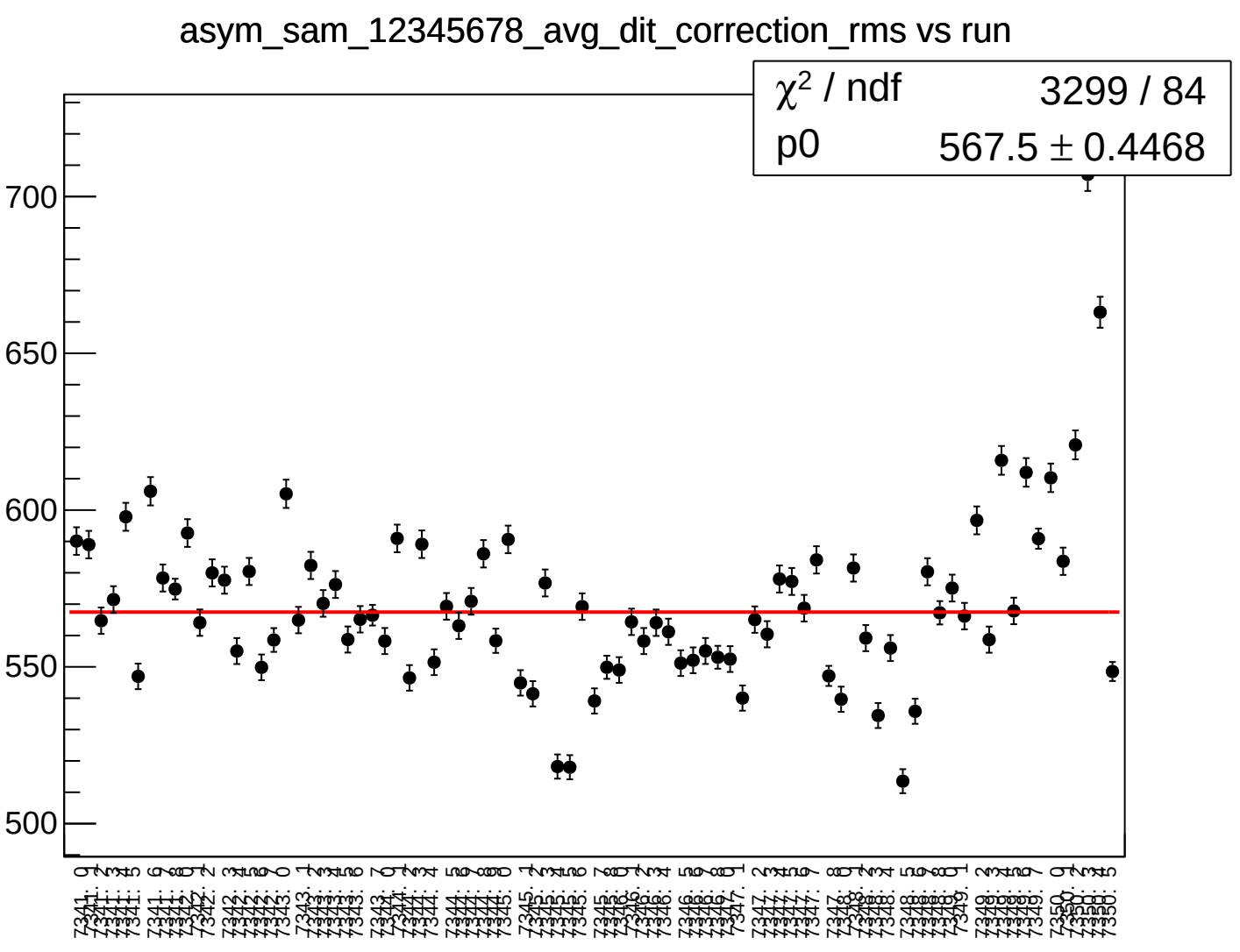

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 86.87 / 84
p0 115.9 ± 153.4
pull
Entries 85
Mean −35.28
Std Dev 0

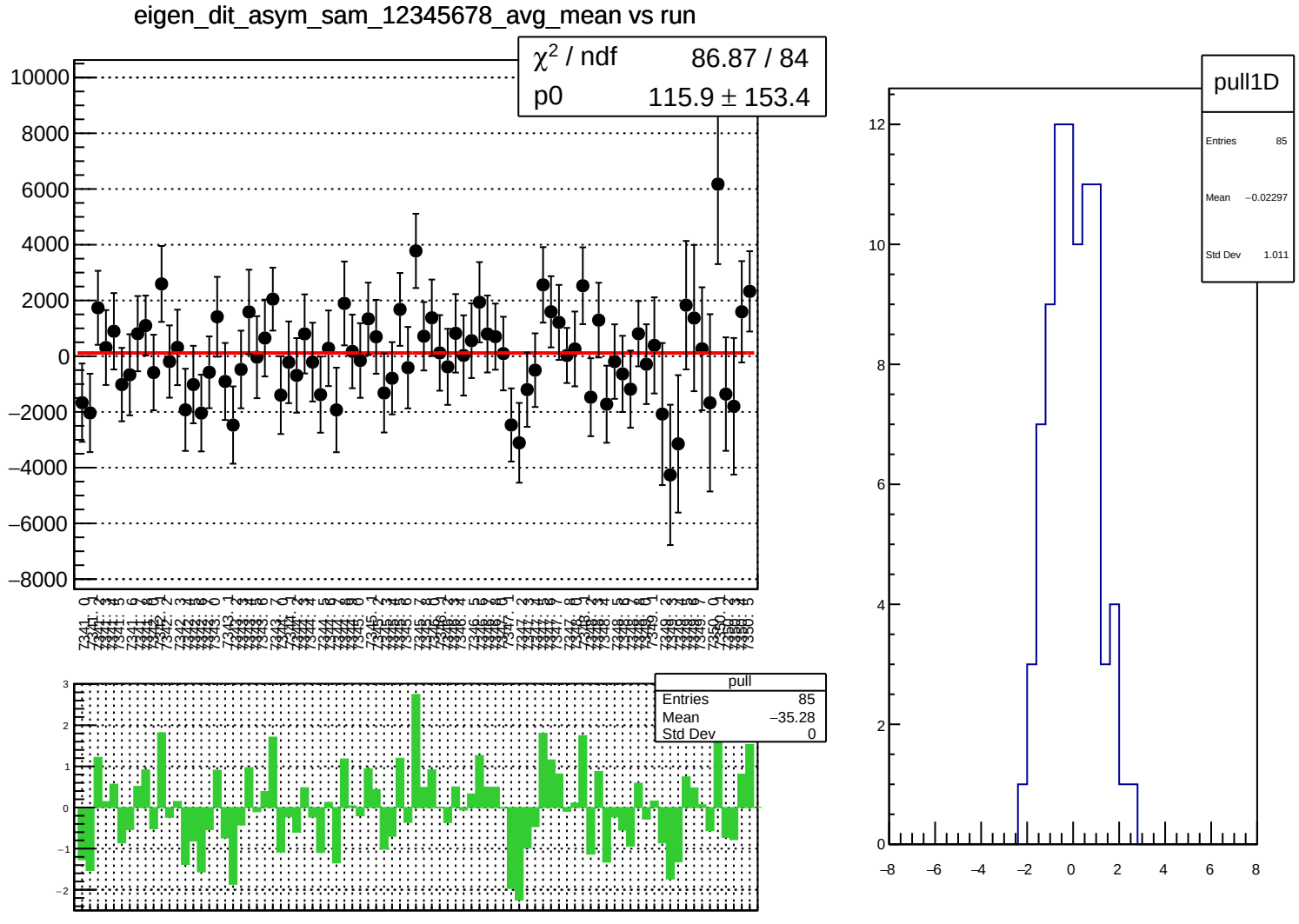

pull1D
Entries 85
Mean −0.02297
Std Dev 1.011

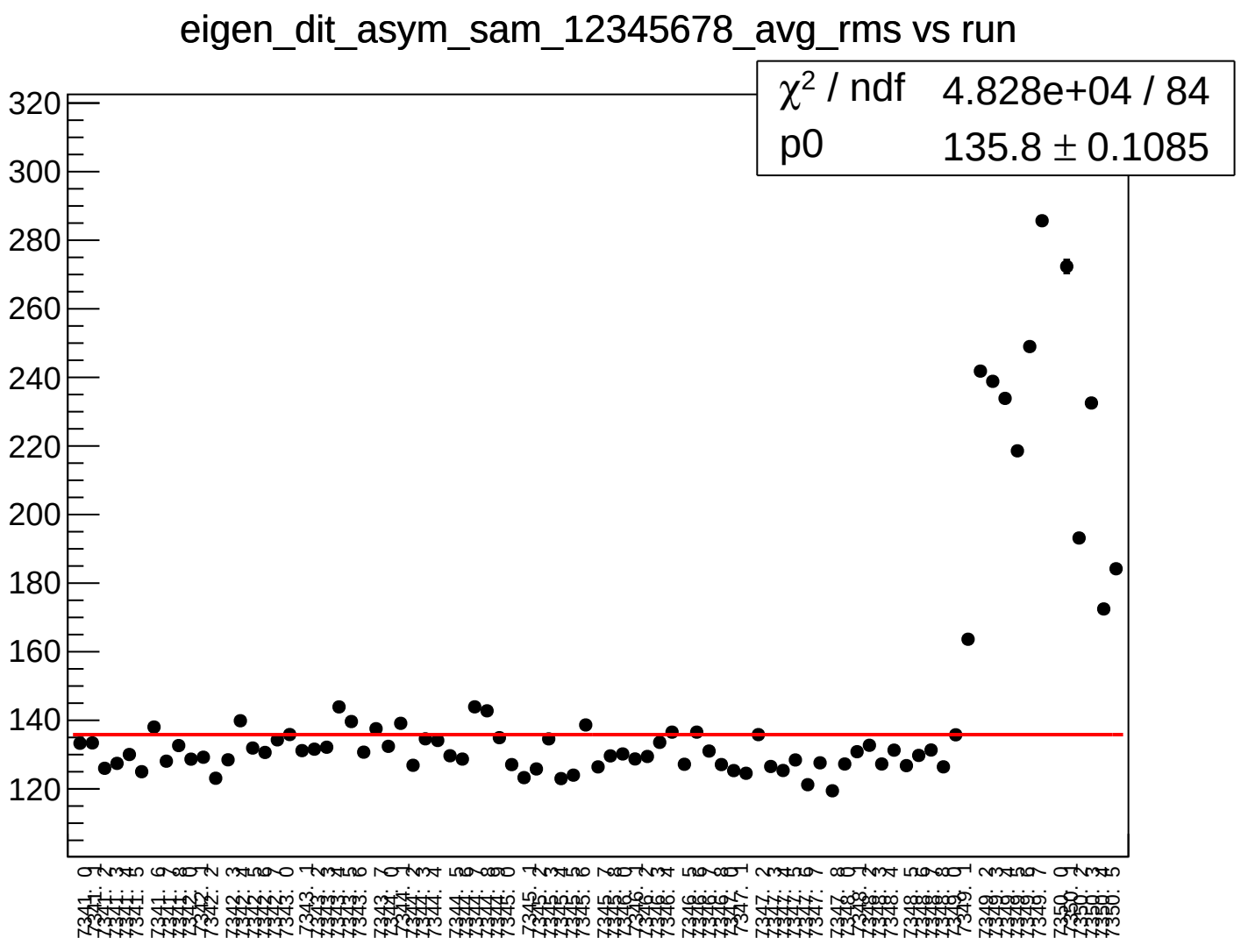

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.828e+04 / 84
p0 135.8 ± 0.1085
320
300
280
260
240
220
200
180
160
140
120

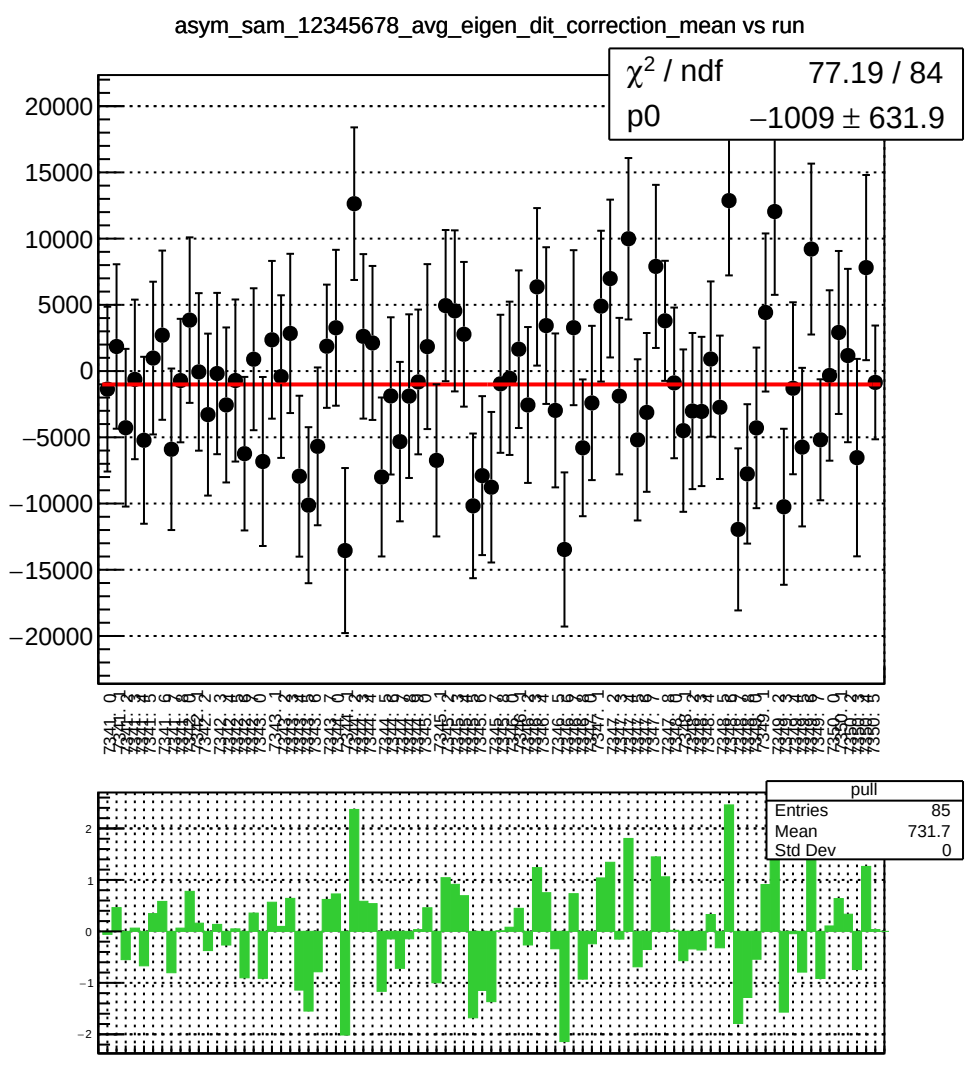

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 77.19 / 84
p0 −1009 ± 631.9
pull
Entries 85
Mean 731.7
Std Dev 0

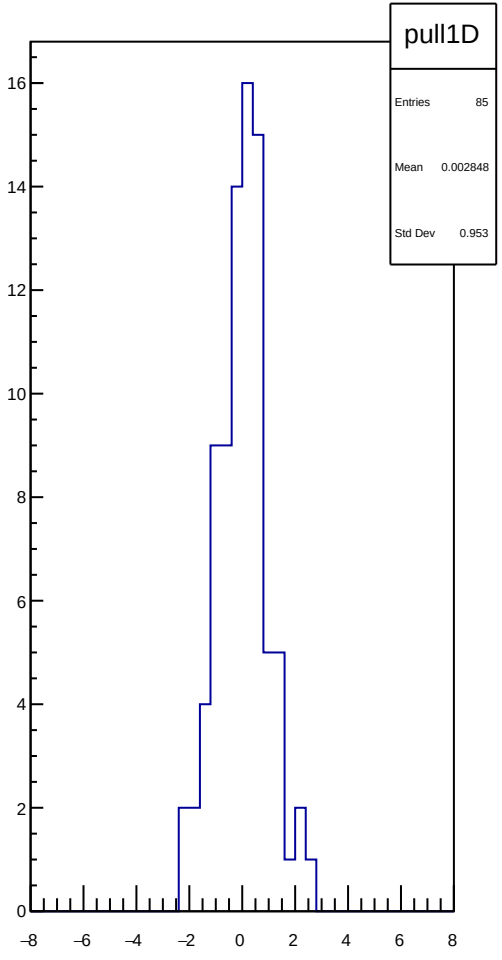

pull1D
Entries 85
Mean 0.002848
Std Dev 0.953

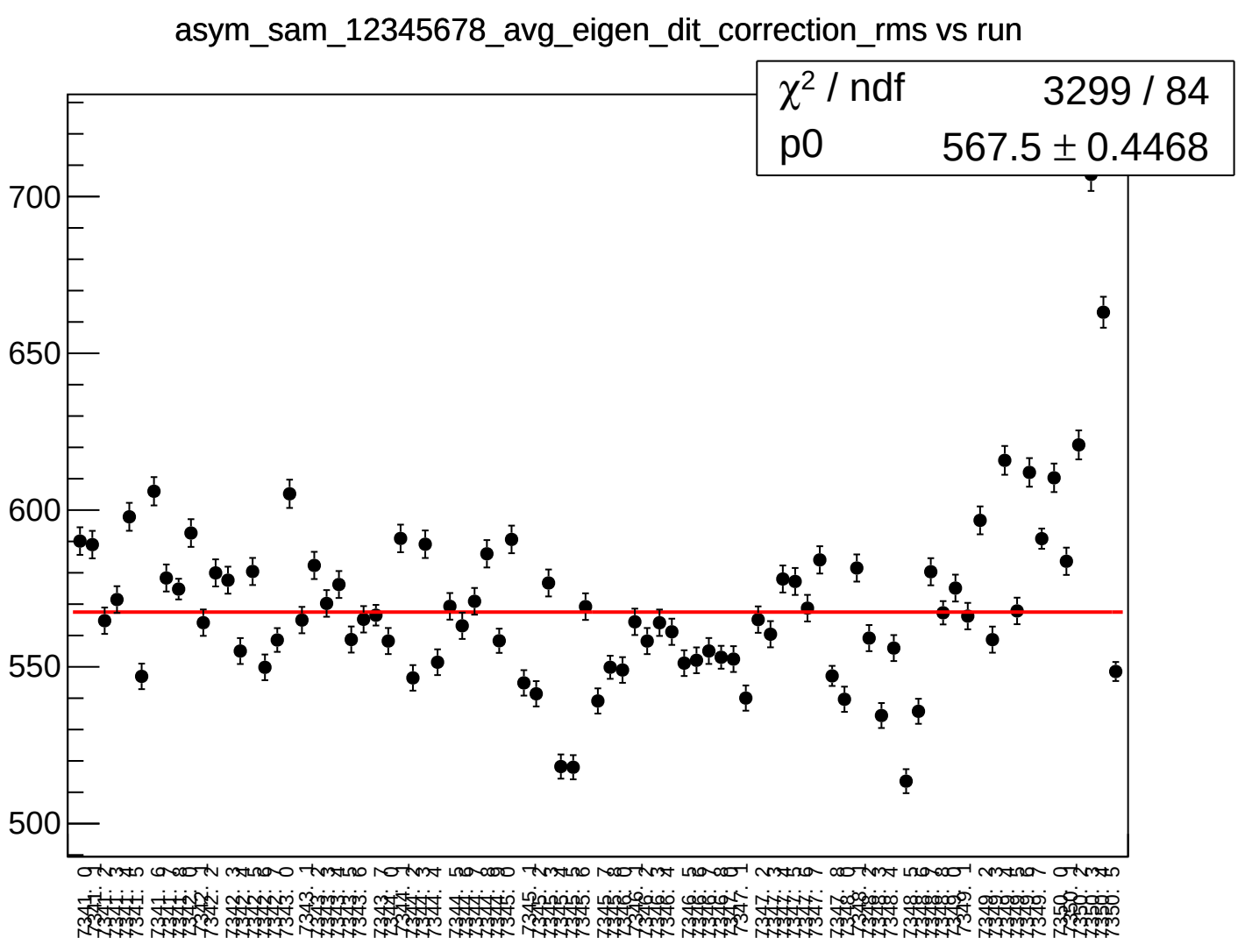

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 3299 / 84
p0 567.5 ± 0.4468
700
650
600
550
500

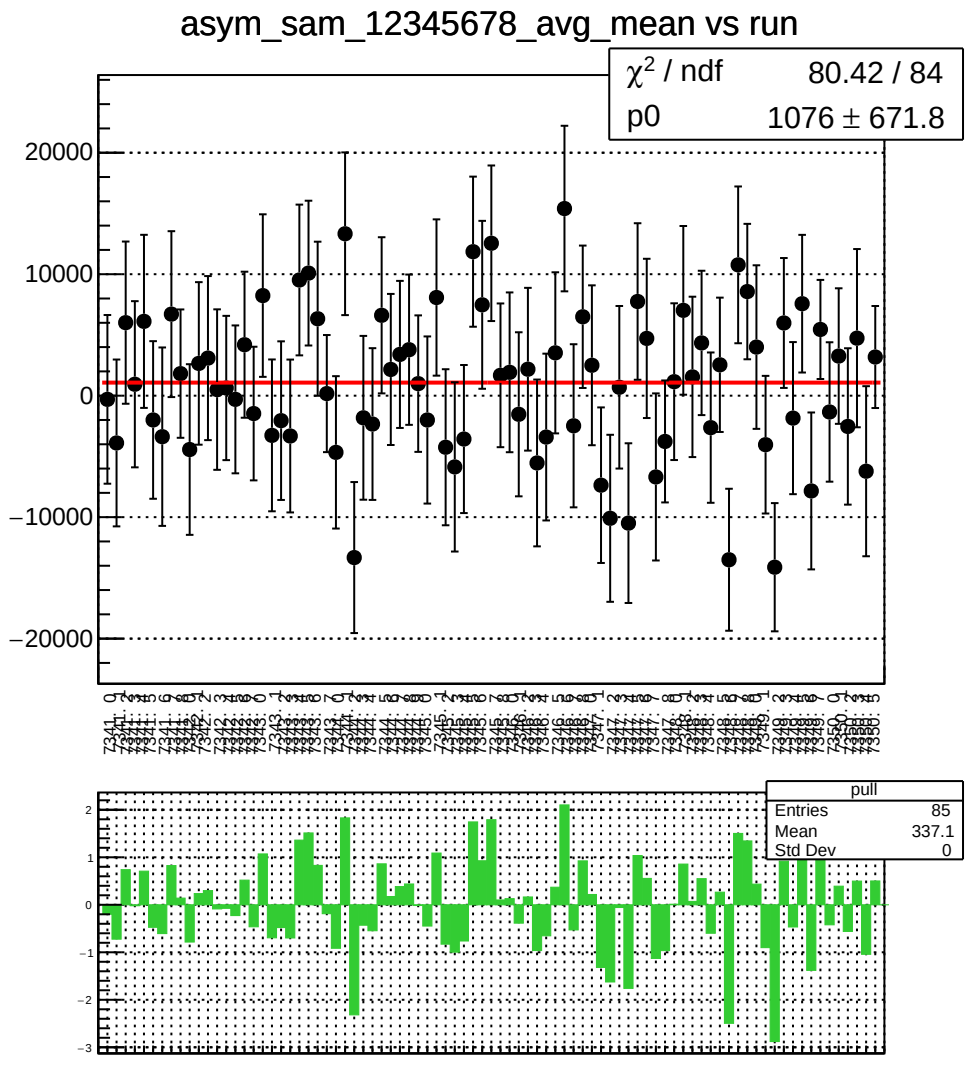

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 86.87 / 84
p0 115.9 ± 153.4
pull
Entries 85
Mean −35.28
Std Dev 0
pull1D
Entries 85
Mean −0.02297
Std Dev 1.011

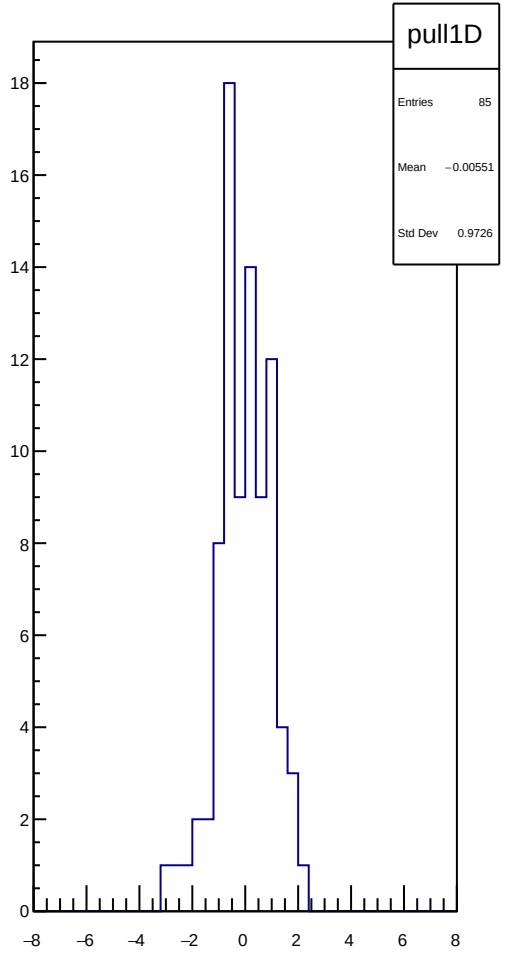

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.828e+04 / 84
p0 135.8 ± 0.1085
320
300
280
260
240
220
200
180
160
140
120

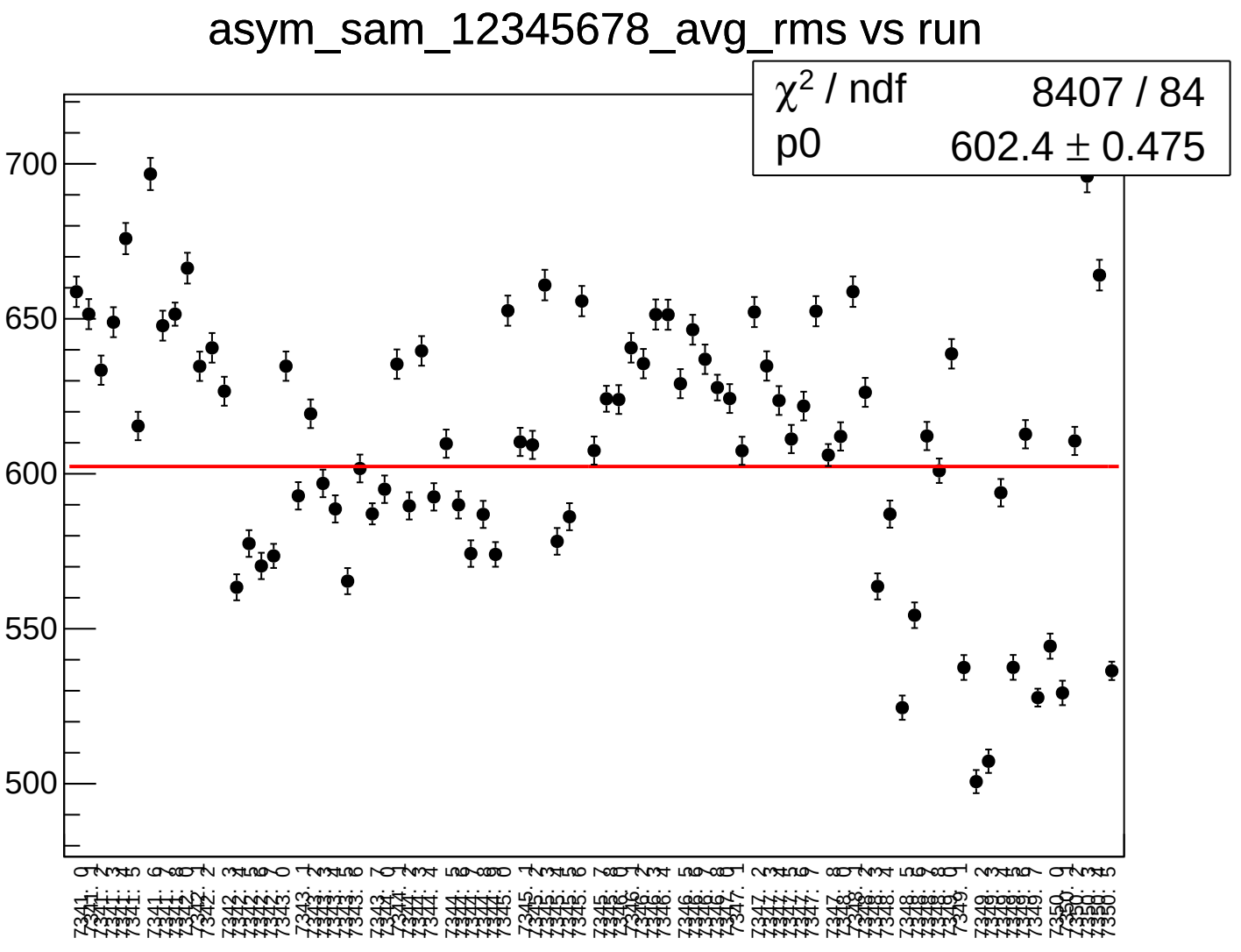

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.19 / 84
p0 −1009 ± 631.9
pull
Entries 85
Mean 731.7
Std Dev 0

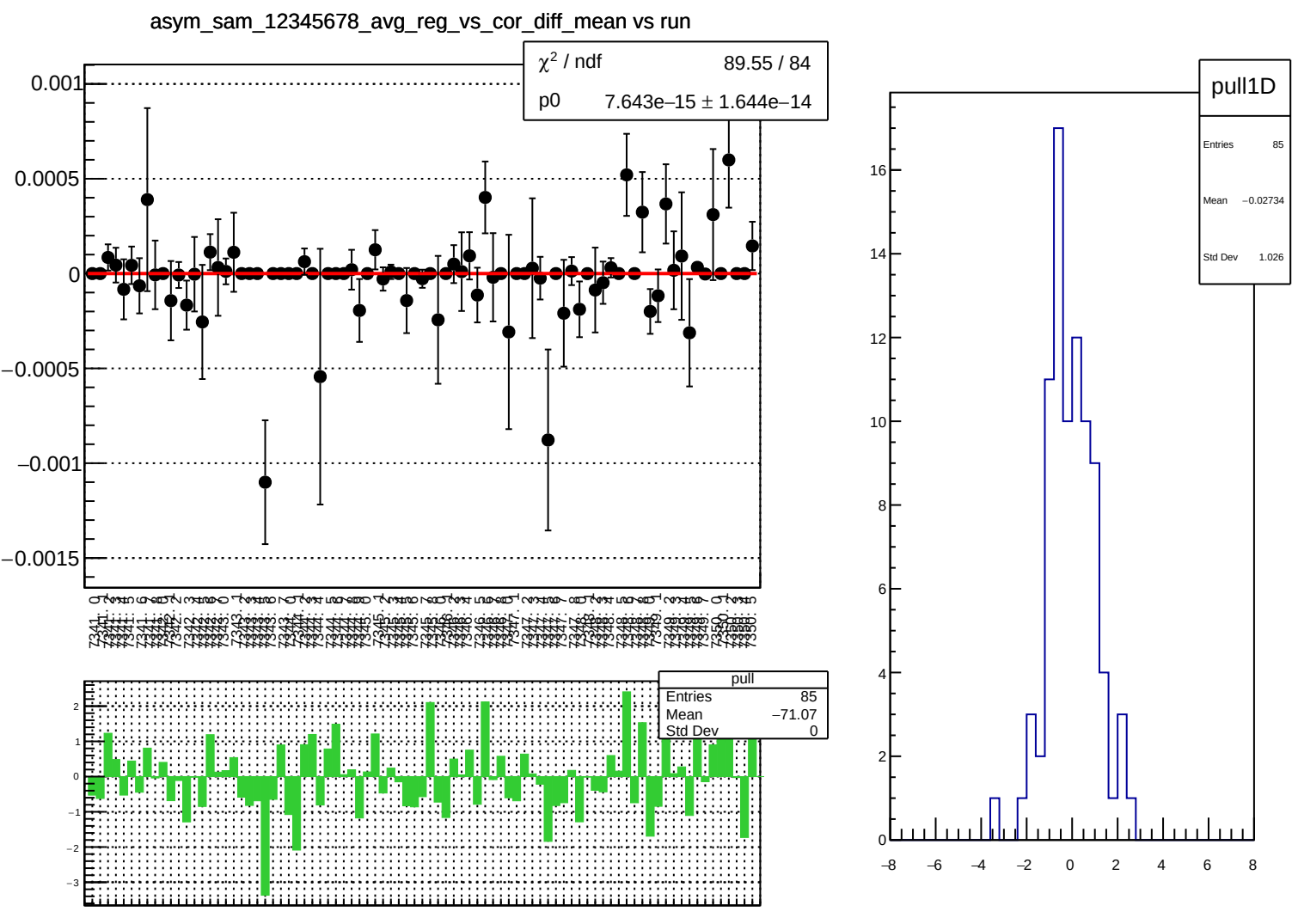

pull1D
Entries 85
Mean 0.002848
Std Dev 0.953

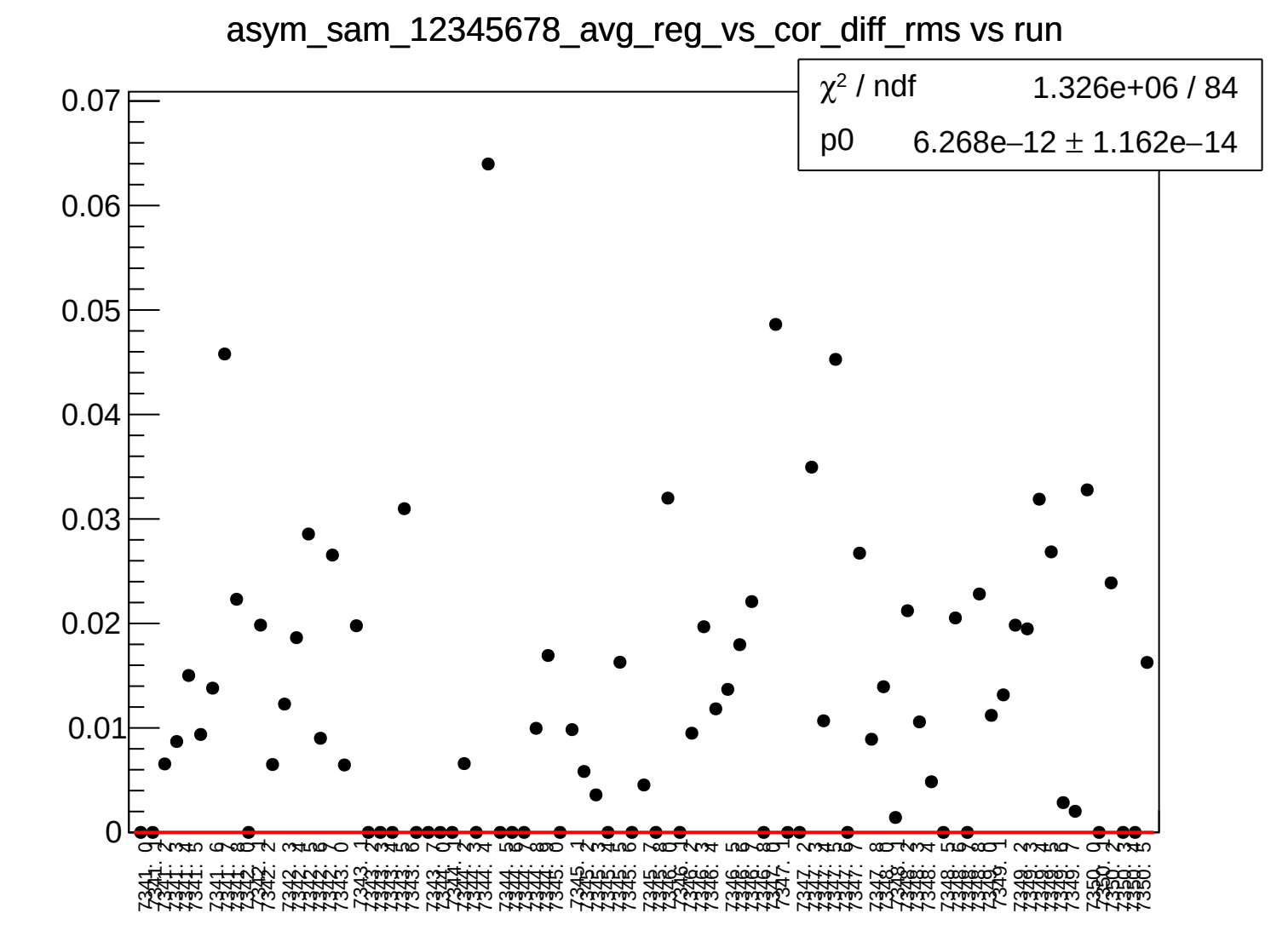

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 3299 / 84
p0 567.5 ± 0.4468
700
650
600
550
500

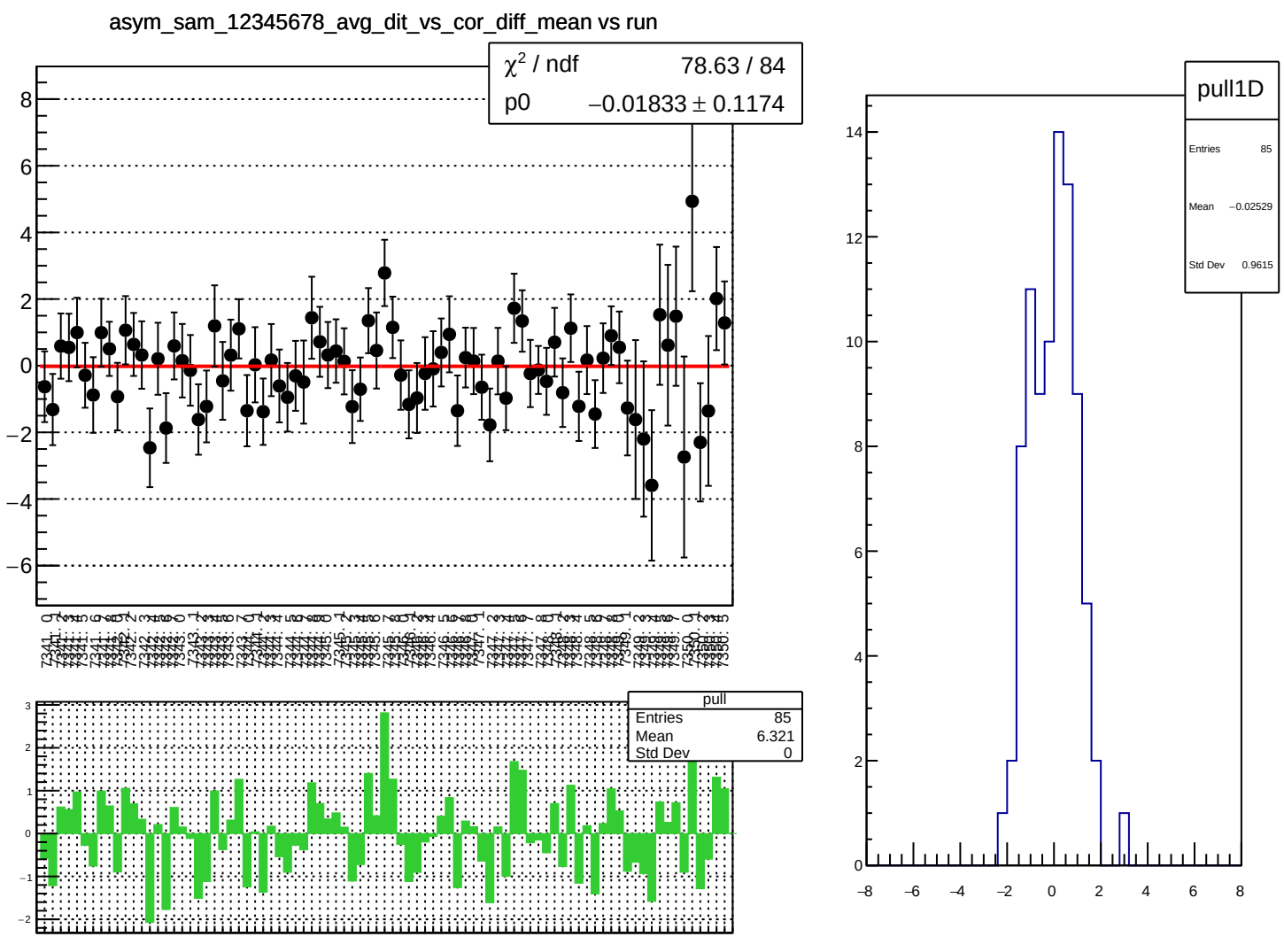

asym_sam_12345678_avg_mean vs run
χ² / ndf 80.42 / 84
p0 1076 ± 671.8
20000
10000
0
−10000
−20000
pull
Entries 85
Mean 337.1
Std Dev 0
2
1
0
−1
−2
−3

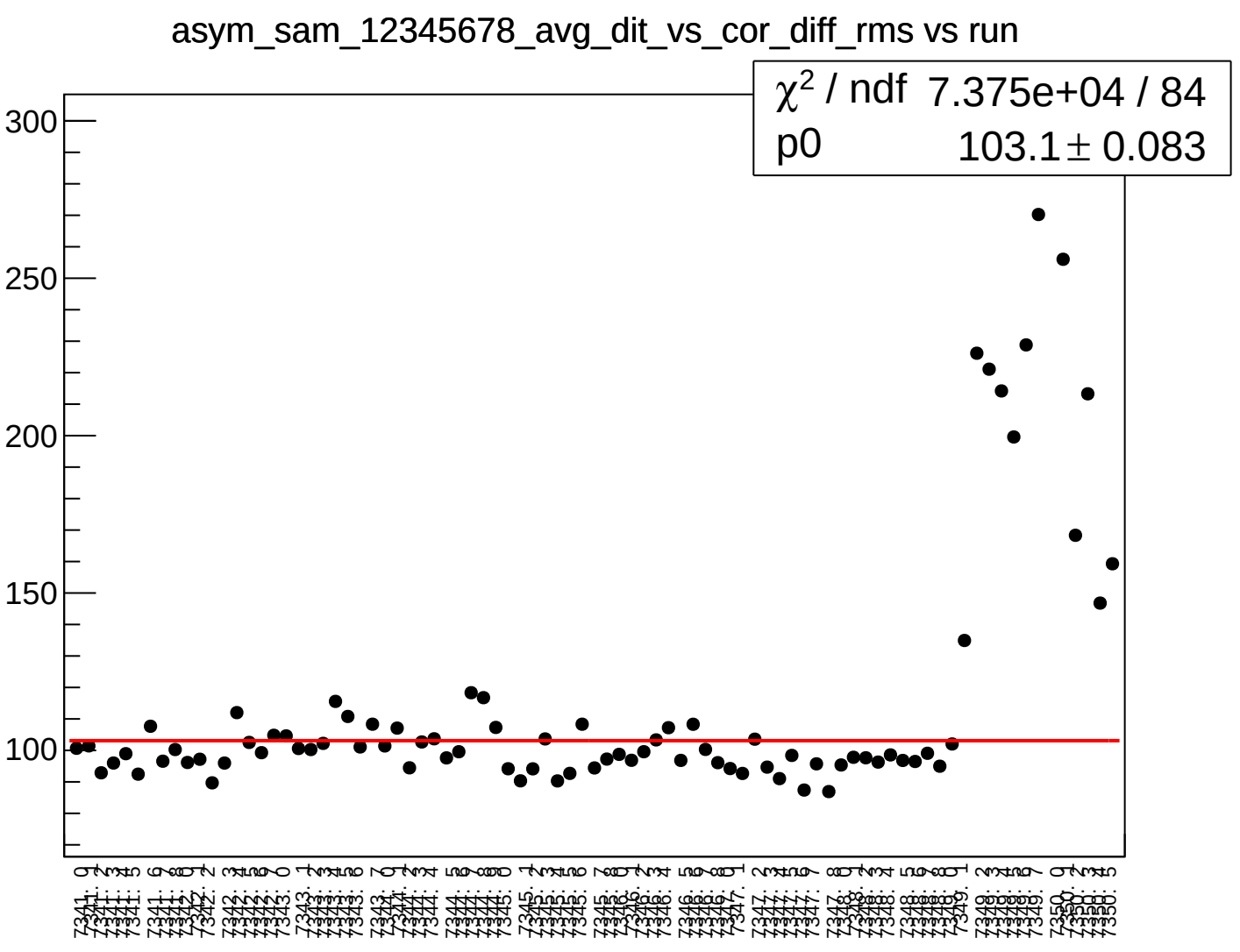

pull1D
Entries 85
Mean −0.00551
Std Dev 0.9726
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

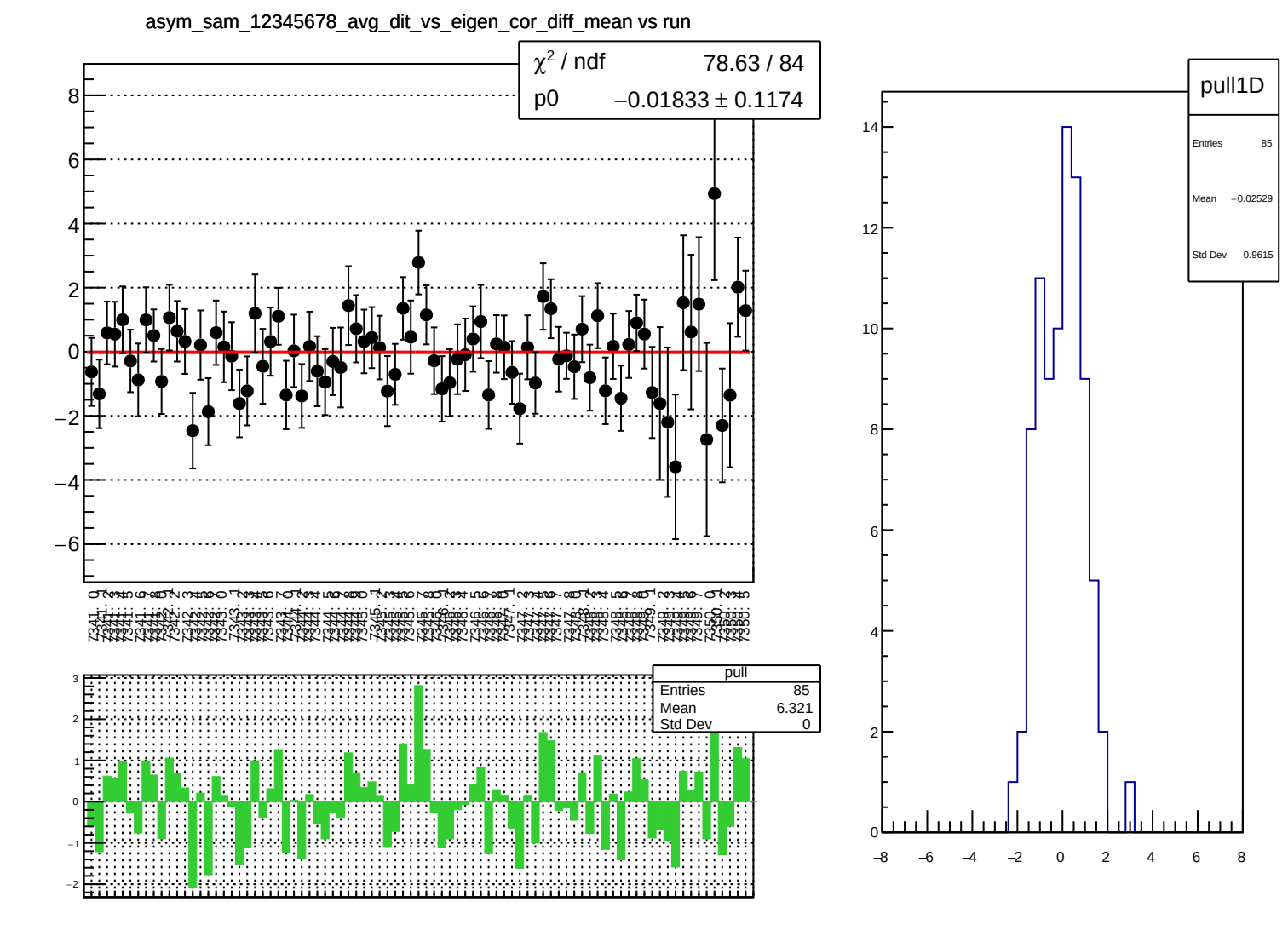

asym_sam_12345678_avg_rms vs run
χ² / ndf 8407 / 84
p0 602.4 ± 0.475
700
650
600
550
500

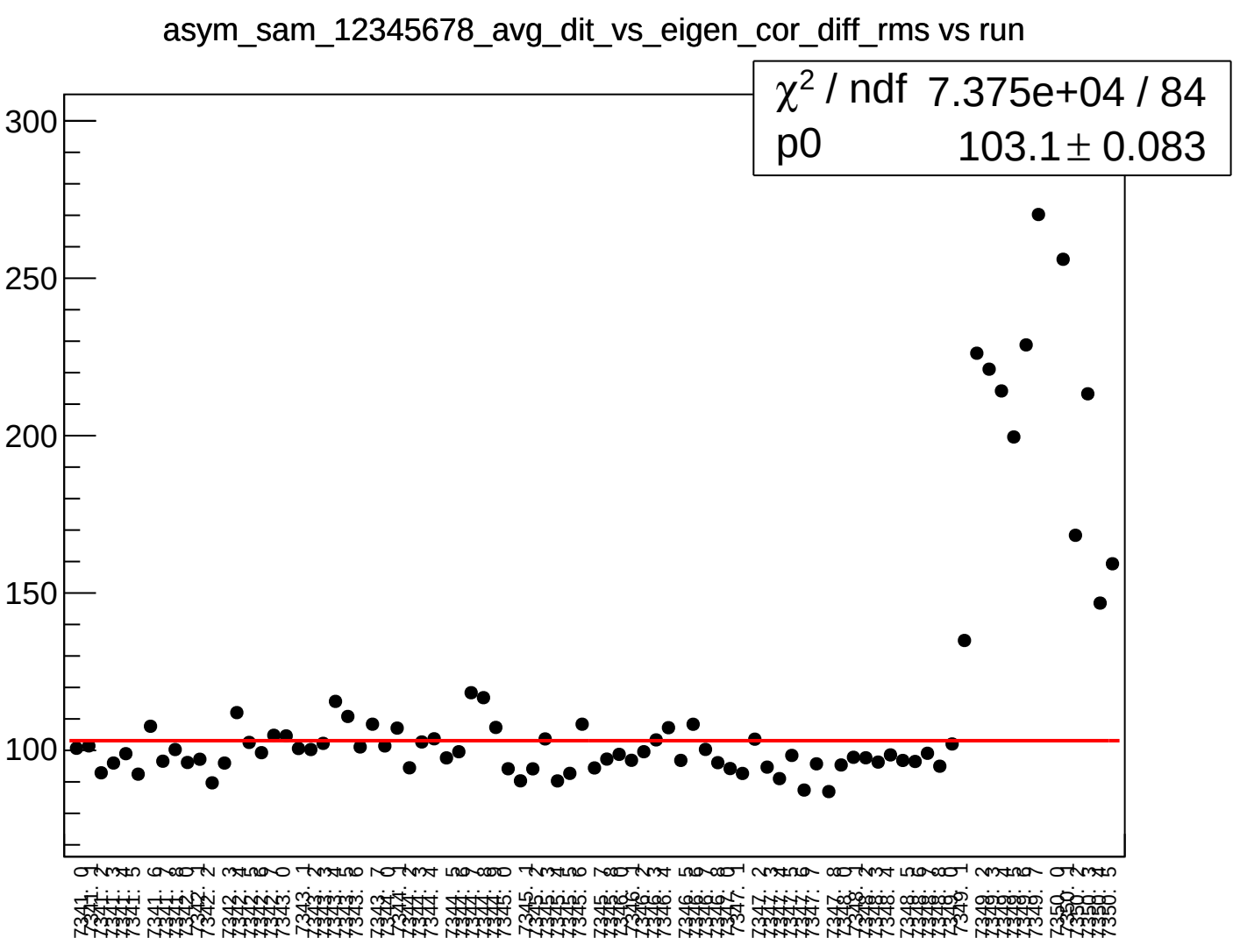

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.55 / 84
p0 7.643e−15 ± 1.644e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 85
Mean −71.07
Std Dev 0
pull1D
Entries 85
Mean −0.02734
Std Dev 1.026

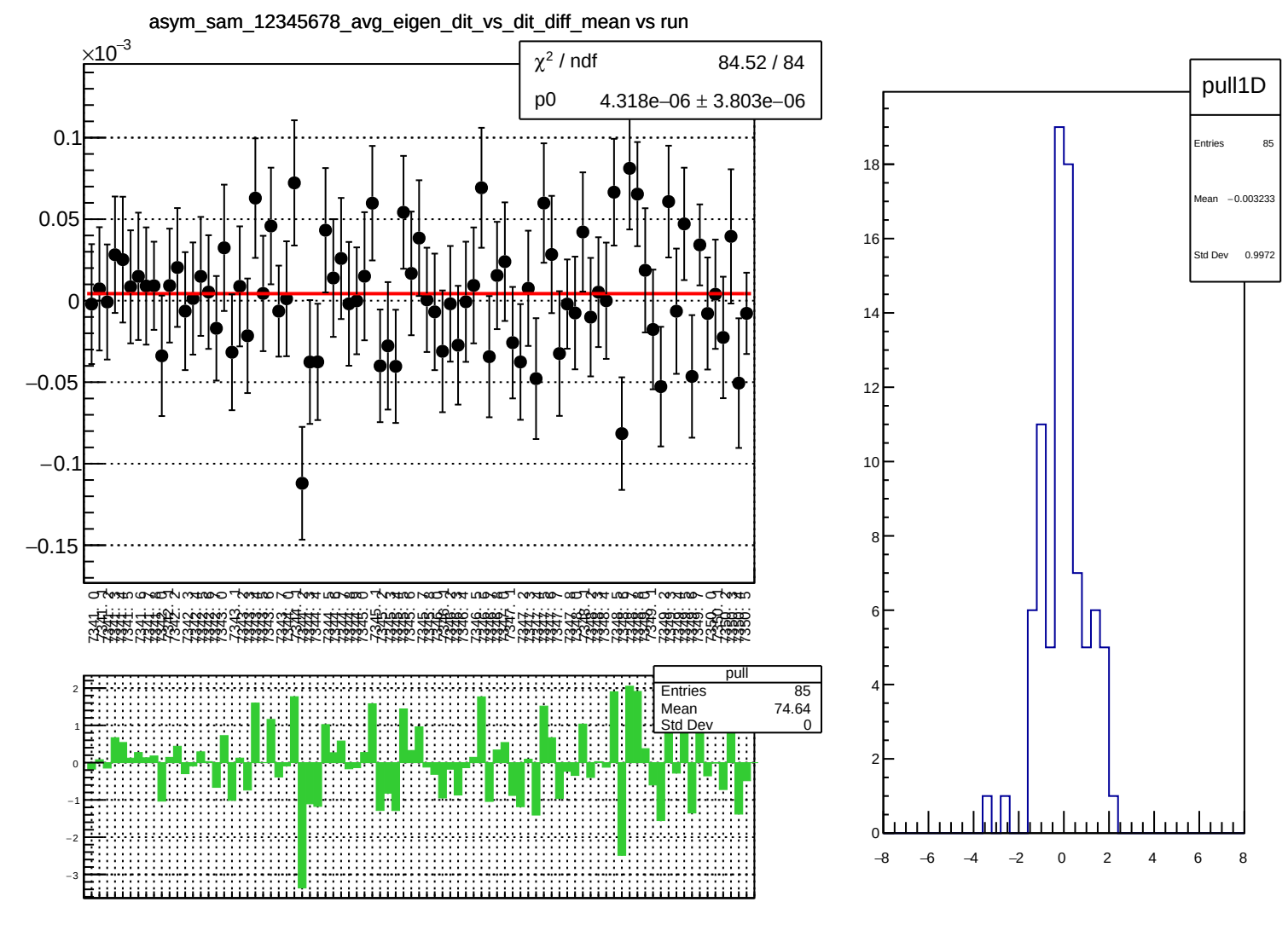

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.326e+06 / 84
p0 6.268e−12 ± 1.162e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

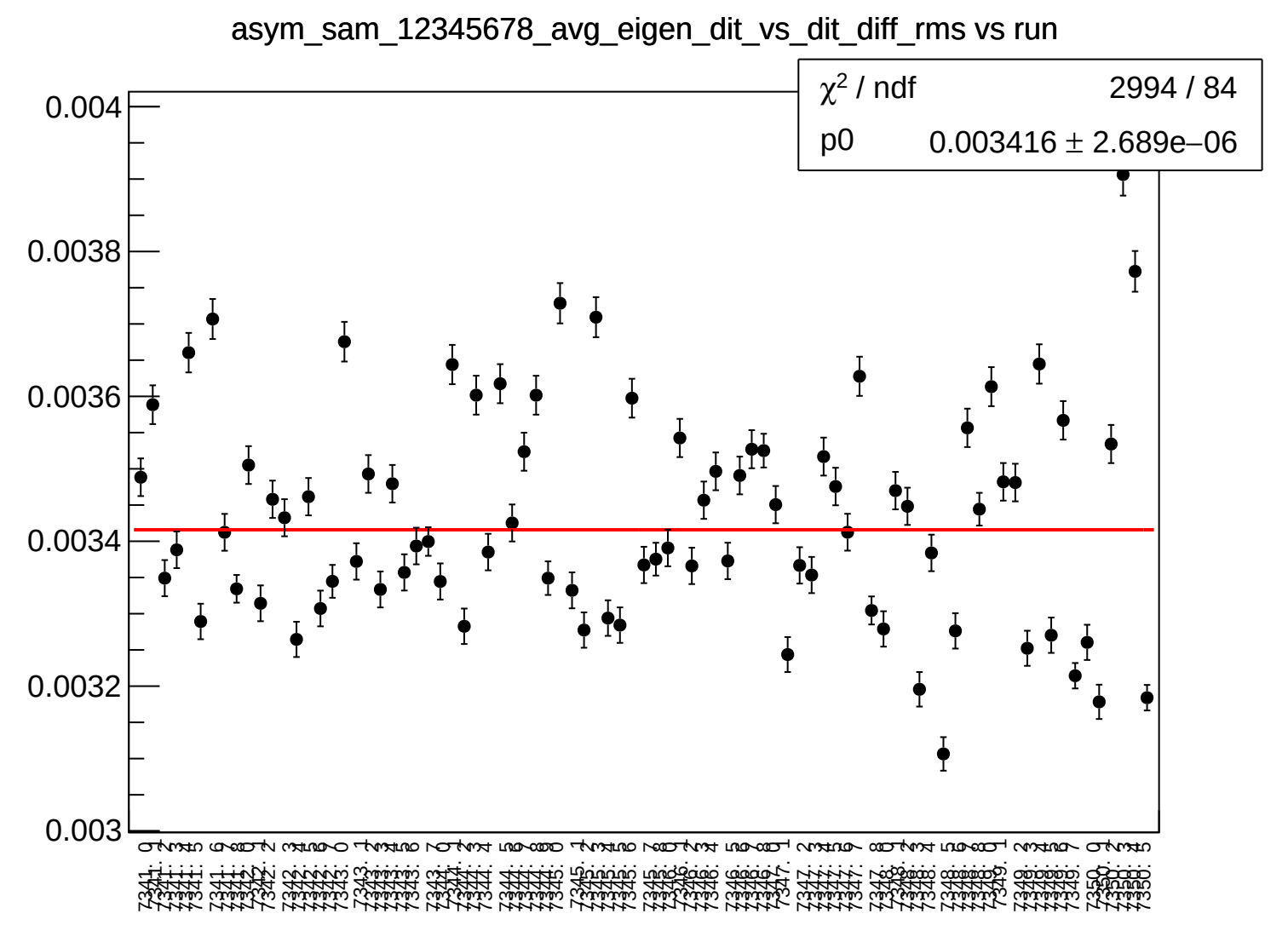

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.63 / 84
p0 −0.01833 ± 0.1174
pull
Entries 85
Mean 6.321
Std Dev 0
pull1D
Entries 85
Mean −0.02529
Std Dev 0.9615

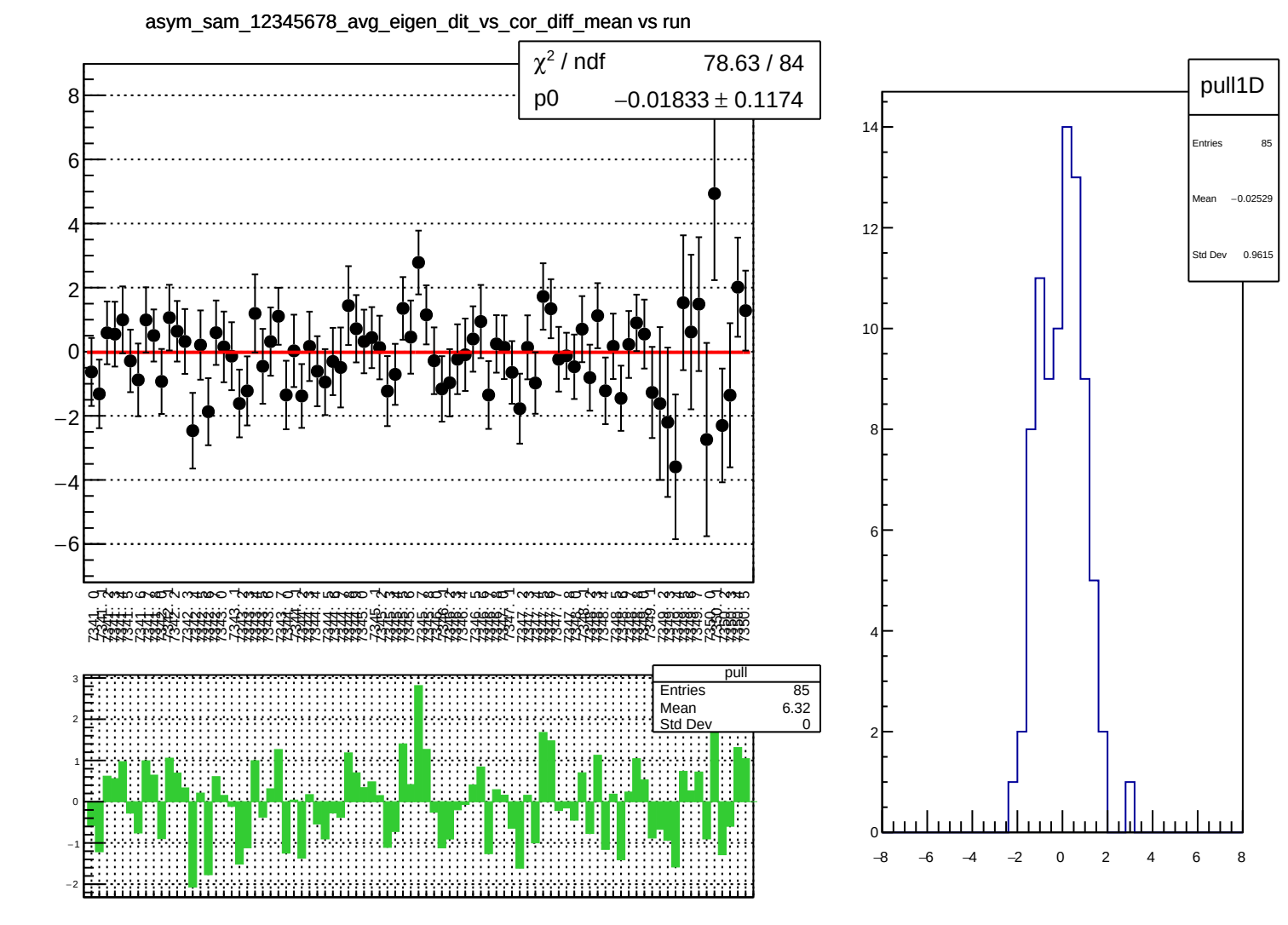

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.375e+04 / 84
p0 103.1 ± 0.083
300
250
200
150
100

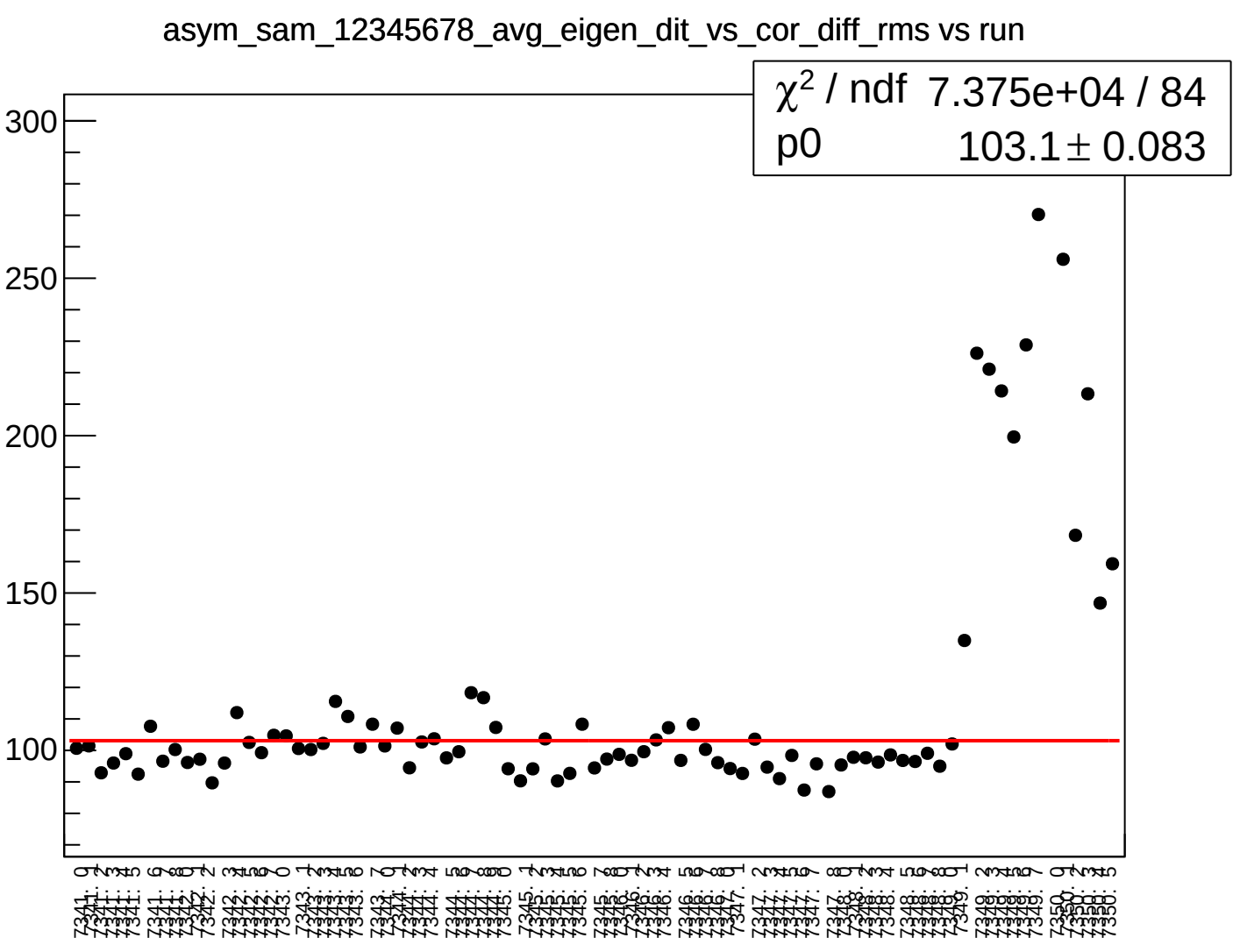

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.63 / 84
p0 −0.01833 ± 0.1174
pull
Entries 85
Mean 6.321
Std Dev 0
pull1D
Entries 85
Mean −0.02529
Std Dev 0.9615

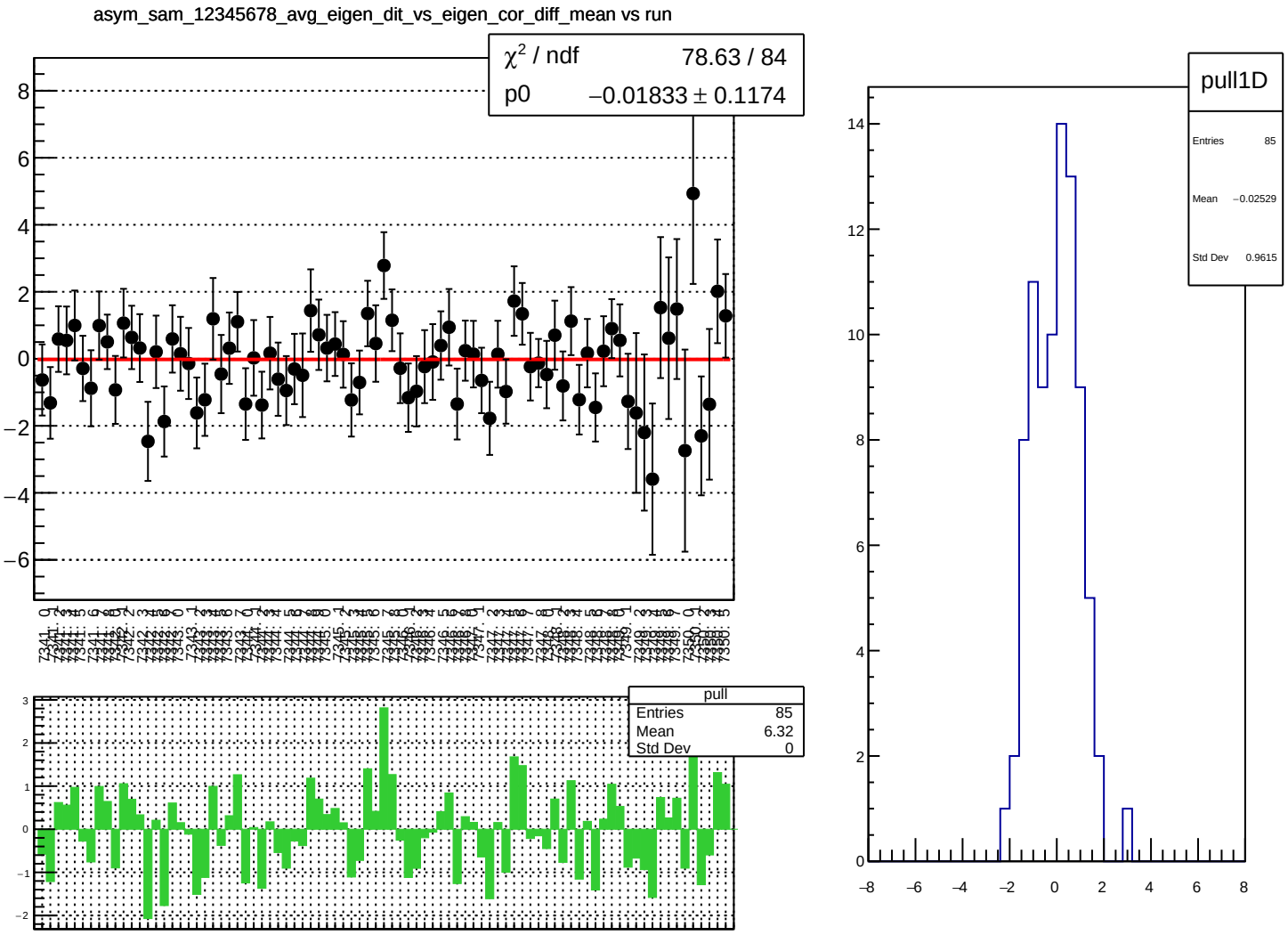

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.375e+04 / 84
p0 103.1 ± 0.083
300
250
200
150
100

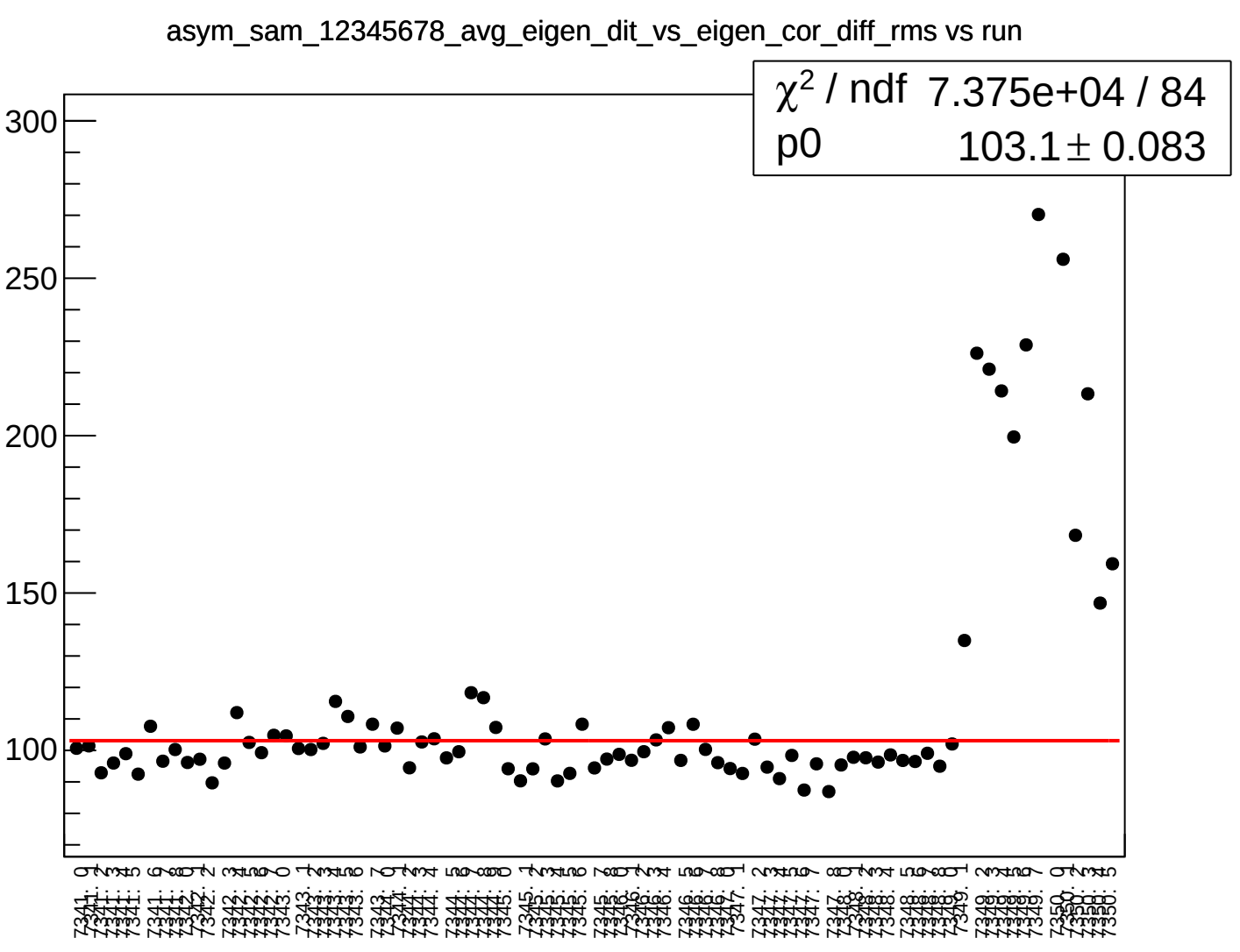

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.52 / 84
p0 4.318e−06 ± 3.803e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 85
Mean 74.64
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.003233
Std Dev 0.9972
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

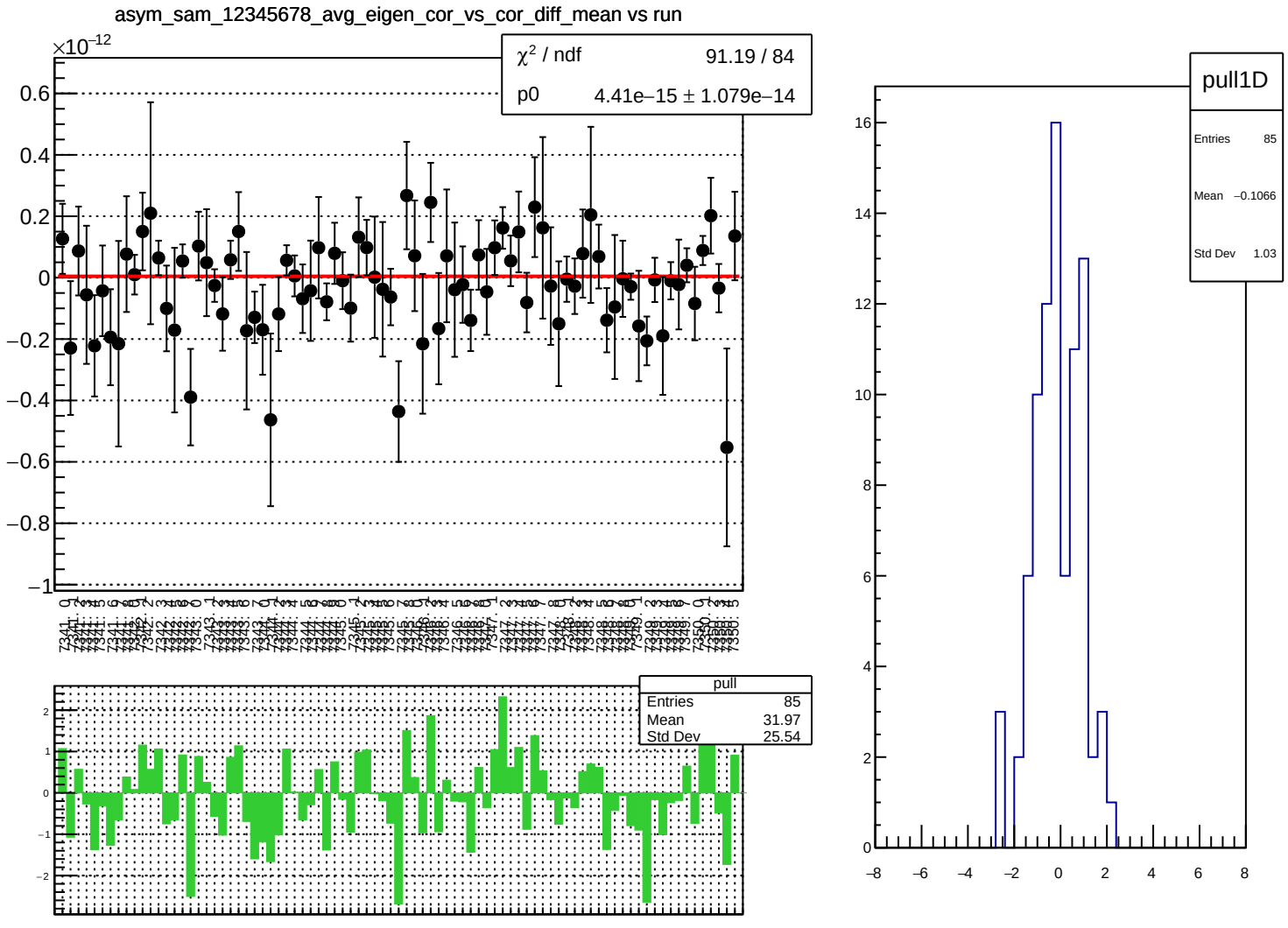

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2994 / 84
p0 0.003416 ± 2.689e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003

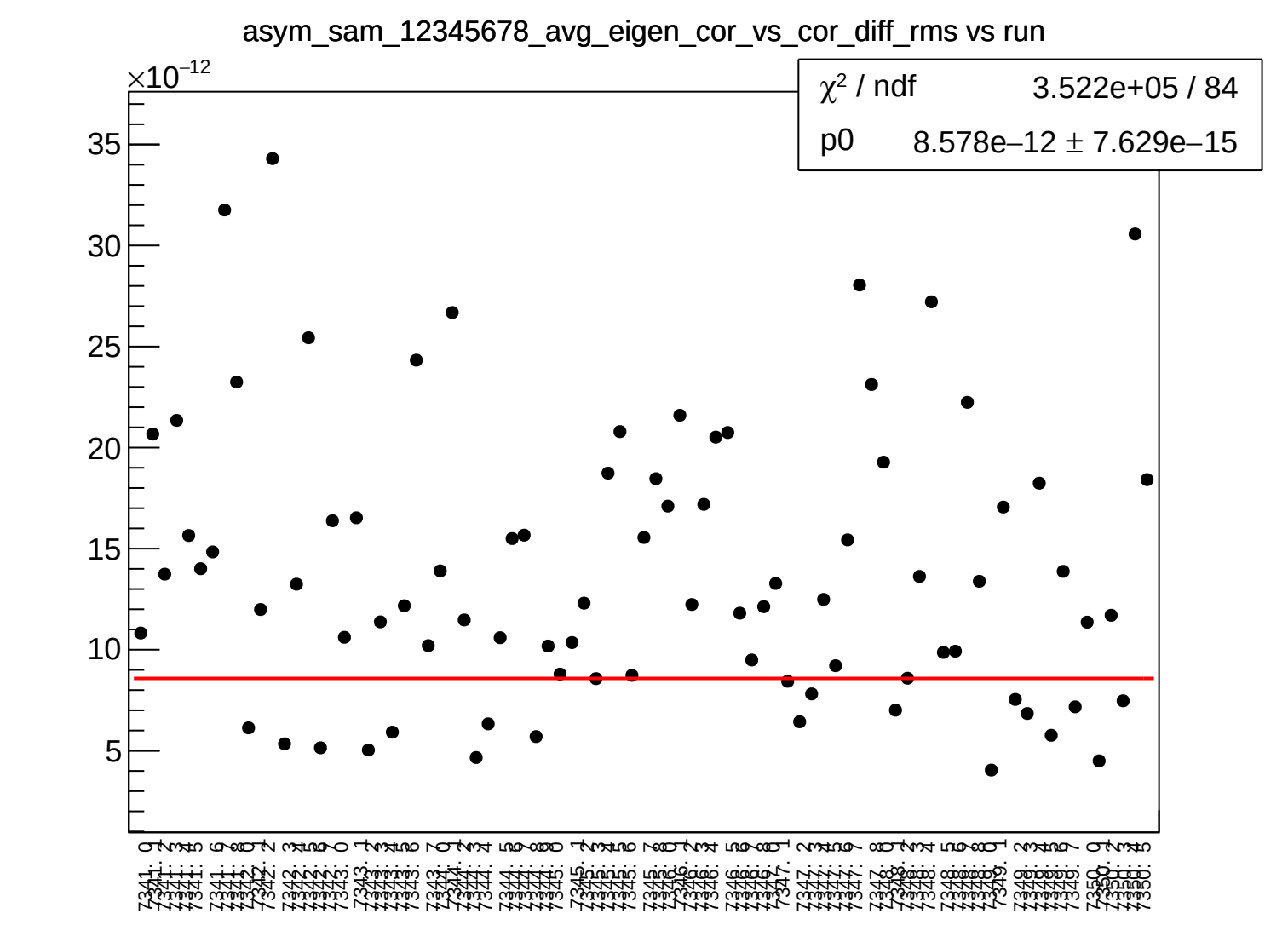

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.63 / 84
p0 −0.01833 ± 0.1174
pull
Entries 85
Mean 6.32
Std Dev 0
pull1D
Entries 85
Mean −0.02529
Std Dev 0.9615

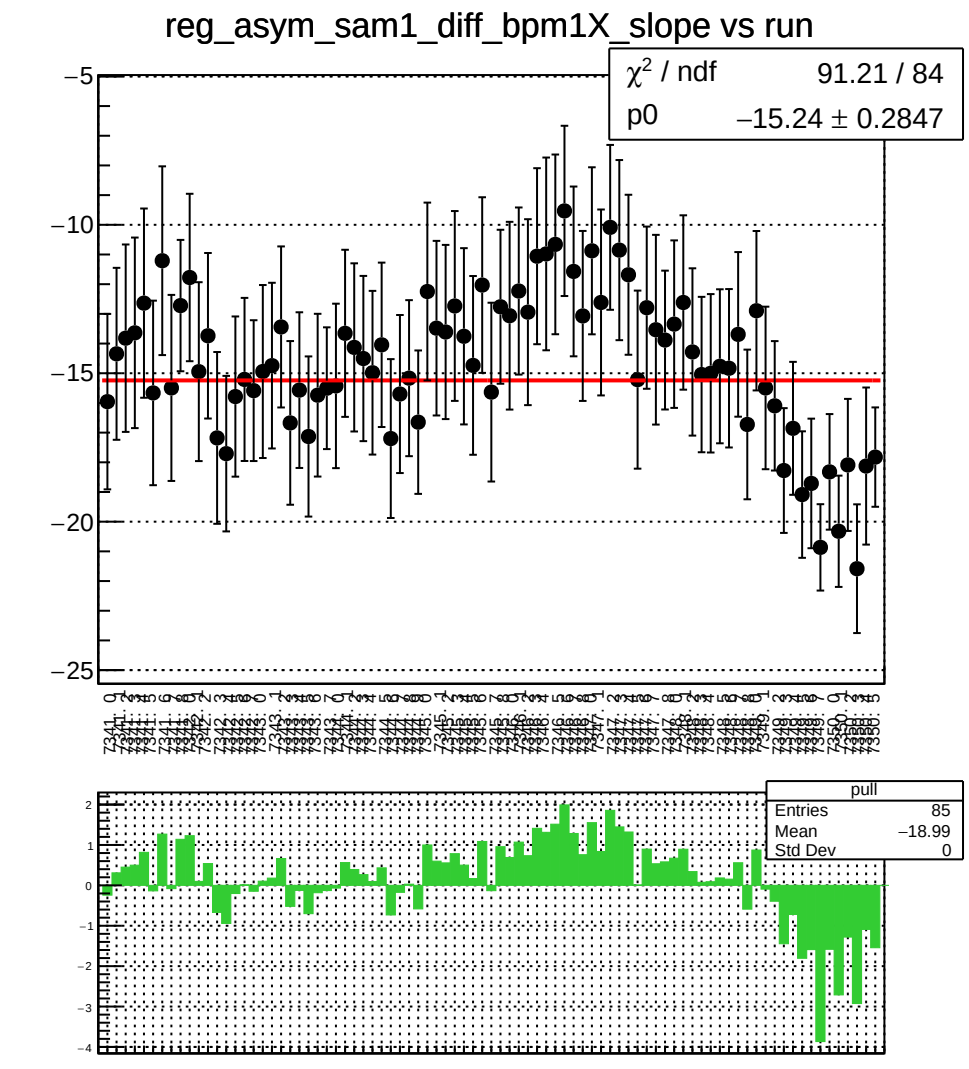

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.375e+04 / 84
p0 103.1 ± 0.083
300
250
200
150
100

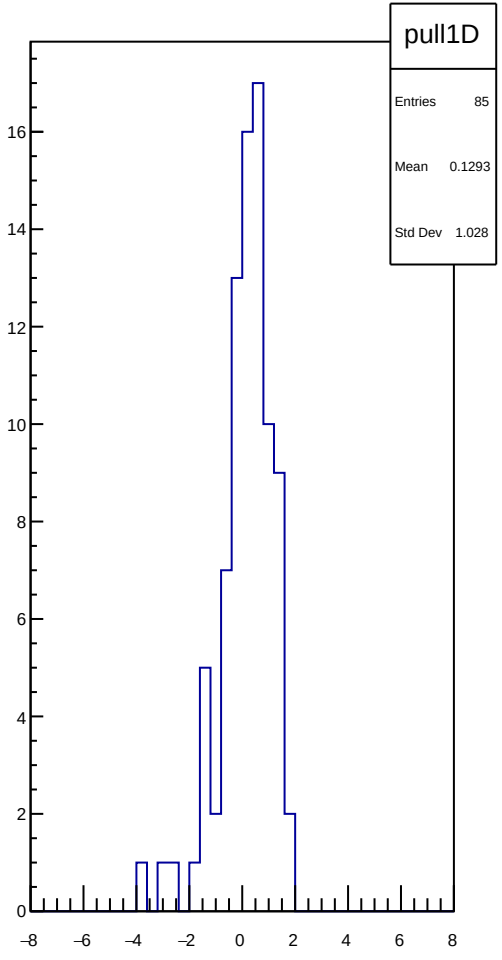

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.63 / 84
p0 −0.01833 ± 0.1174
pull
Entries 85
Mean 6.32
Std Dev 0
pull1D
Entries 85
Mean −0.02529
Std Dev 0.9615

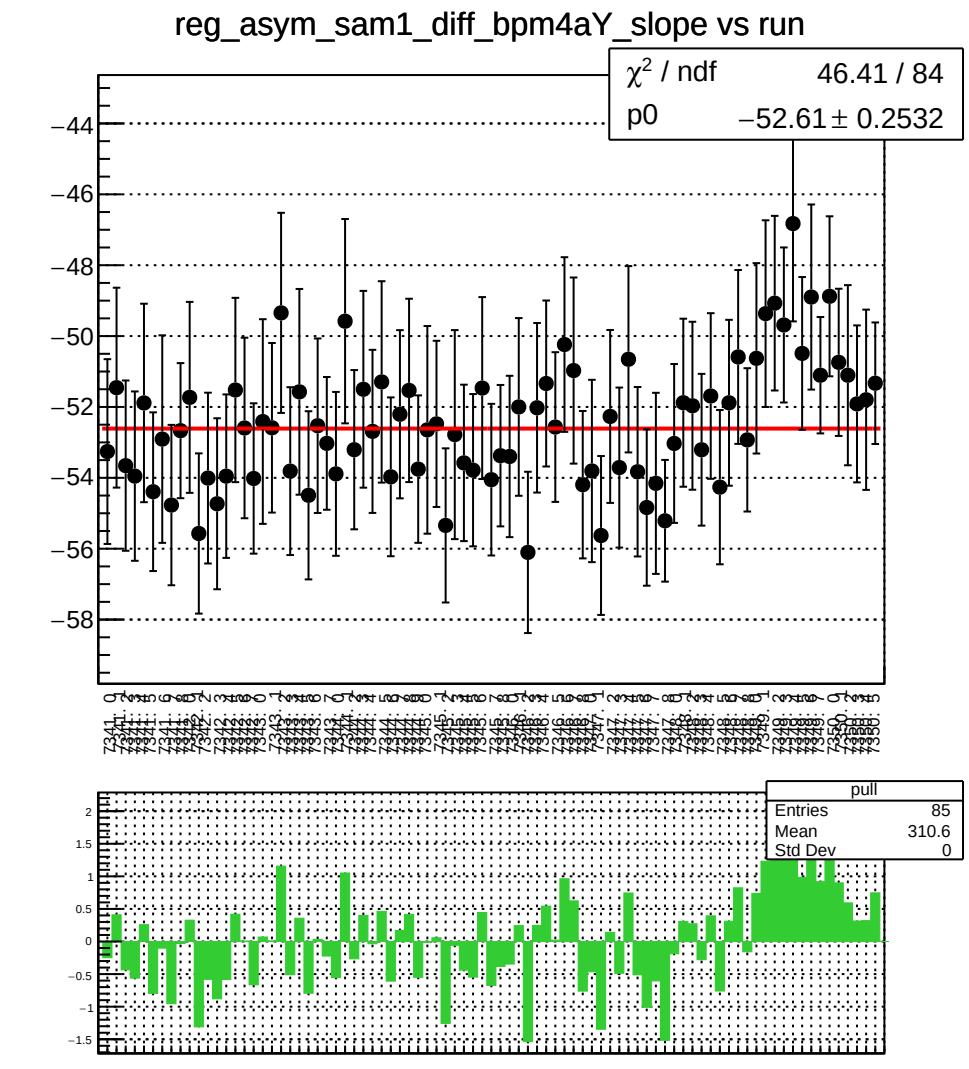

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.375e+04 / 84
p0 103.1 ± 0.083
300
250
200
150
100

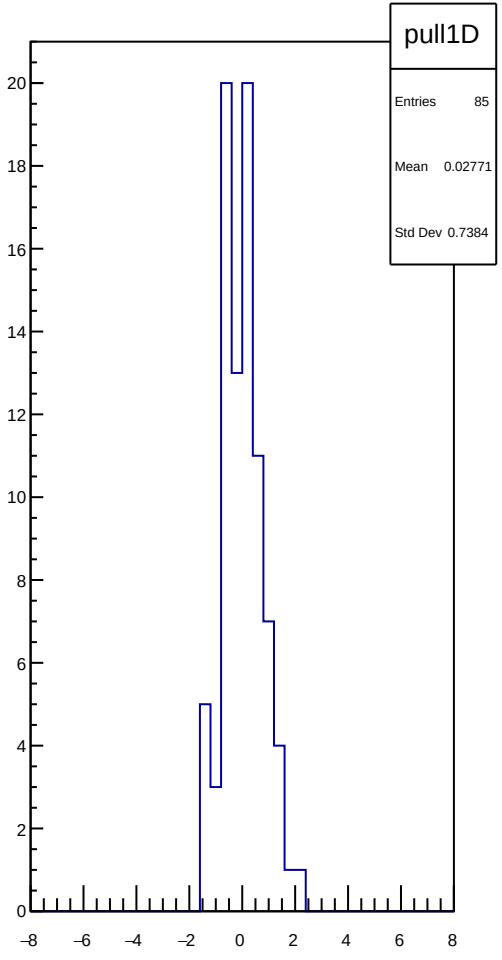

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.19 / 84
p0 4.41e−15 ± 1.079e−14
pull
Entries 85
Mean 31.97
Std Dev 25.54
pull1D
Entries 85
Mean −0.1066
Std Dev 1.03

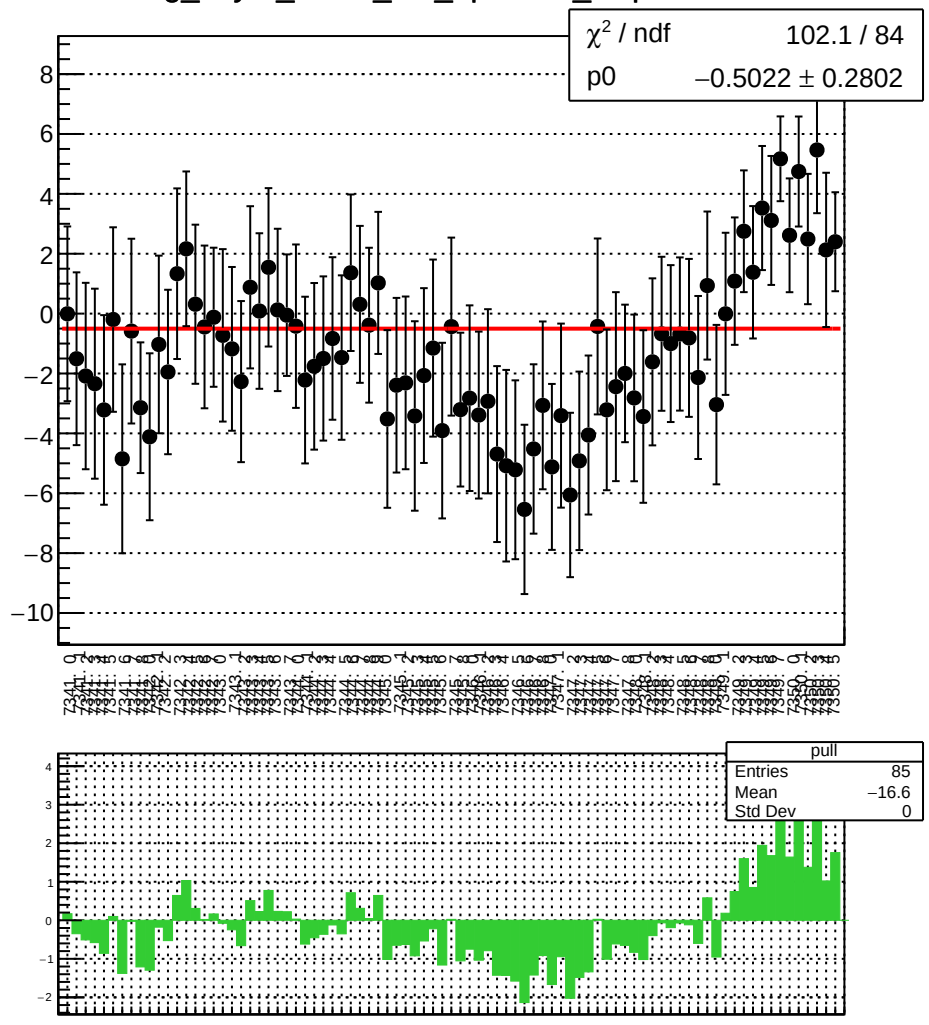

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.522e+05 / 84
p0 8.578e−12 ± 7.629e−15
35
30
25
20
15
10
5

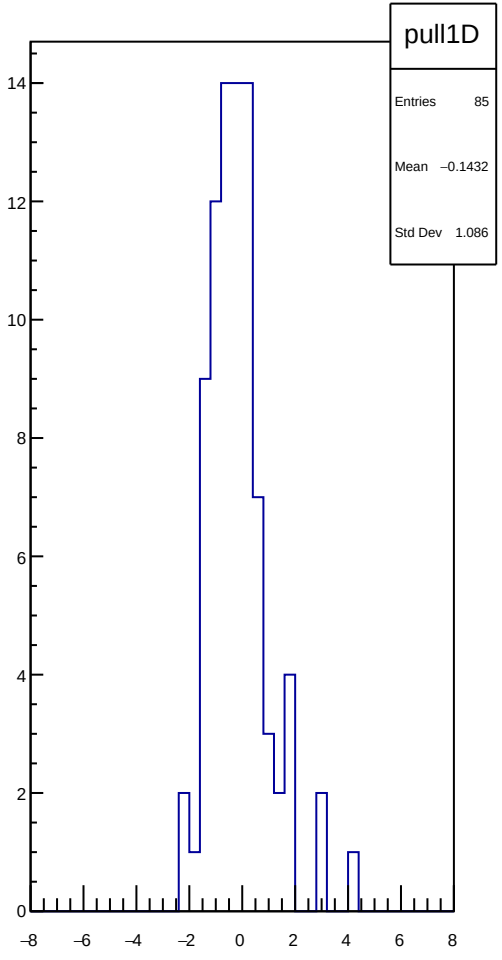

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 91.21 / 84
p0 −15.24 ± 0.2847
pull
Entries 85
Mean −18.99
Std Dev 0

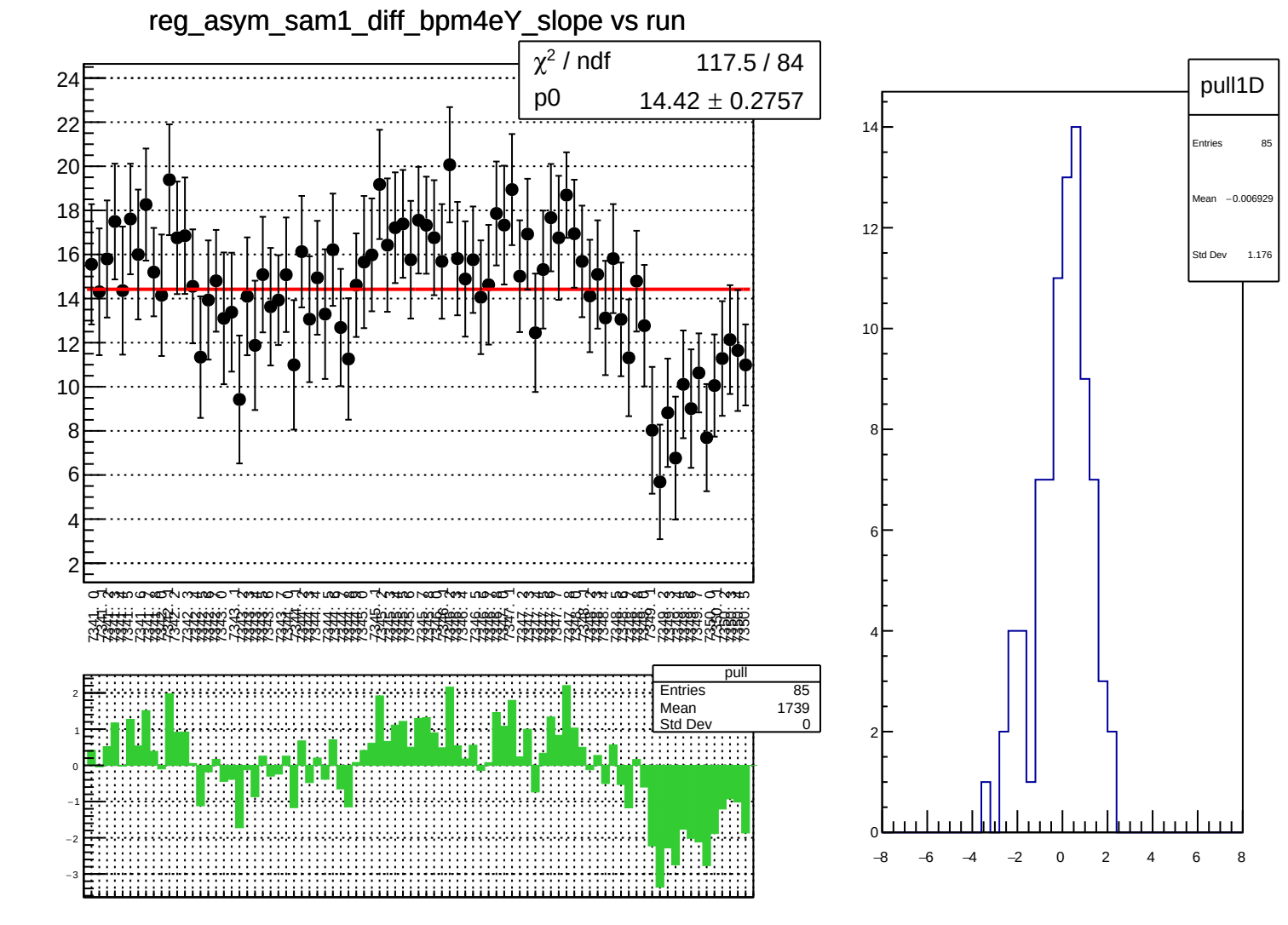

pull1D
Entries 85
Mean 0.1293
Std Dev 1.028

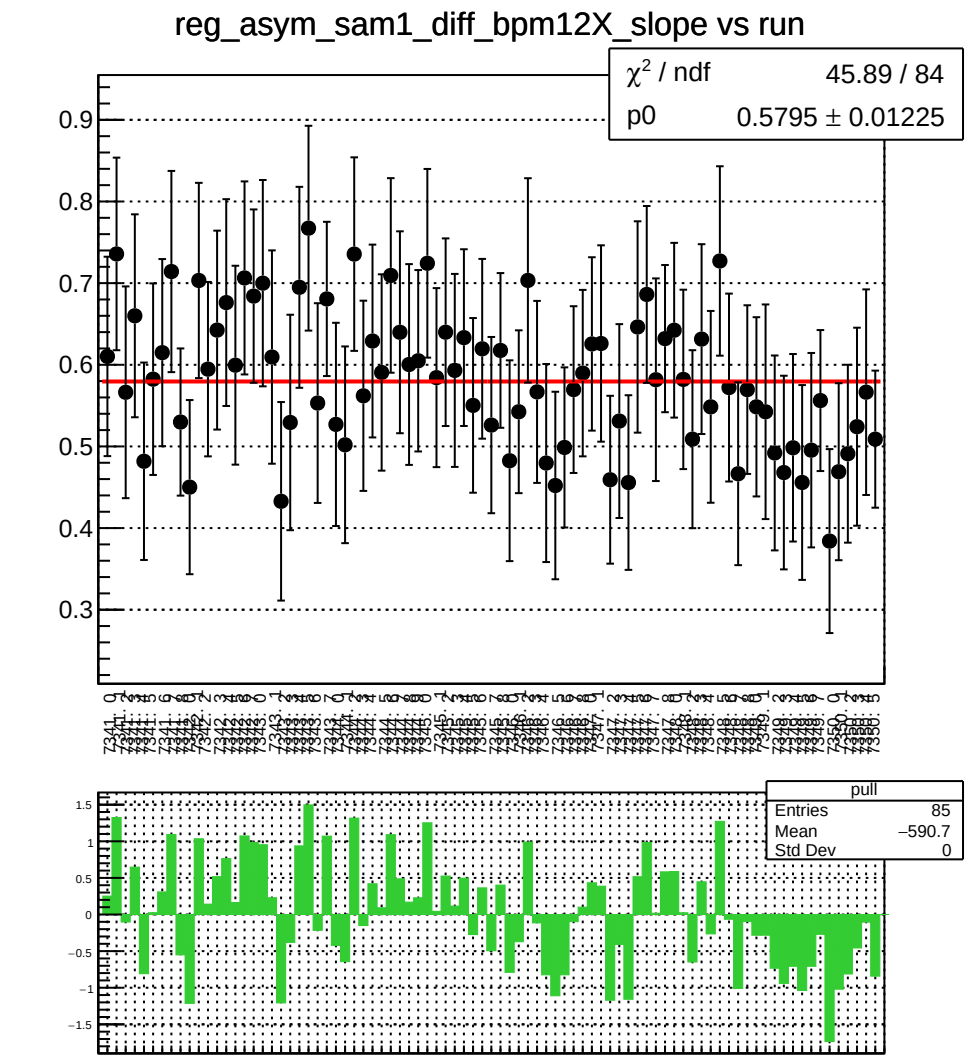

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 46.41 / 84
p0 −52.61 ± 0.2532
pull
Entries 85
Mean 310.6
Std Dev 0

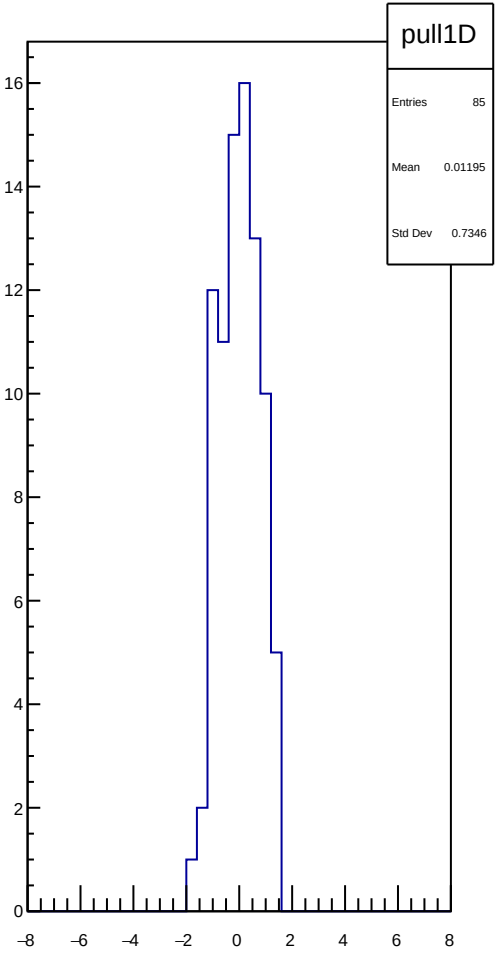

pull1D
Entries 85
Mean 0.02771
Std Dev 0.7384

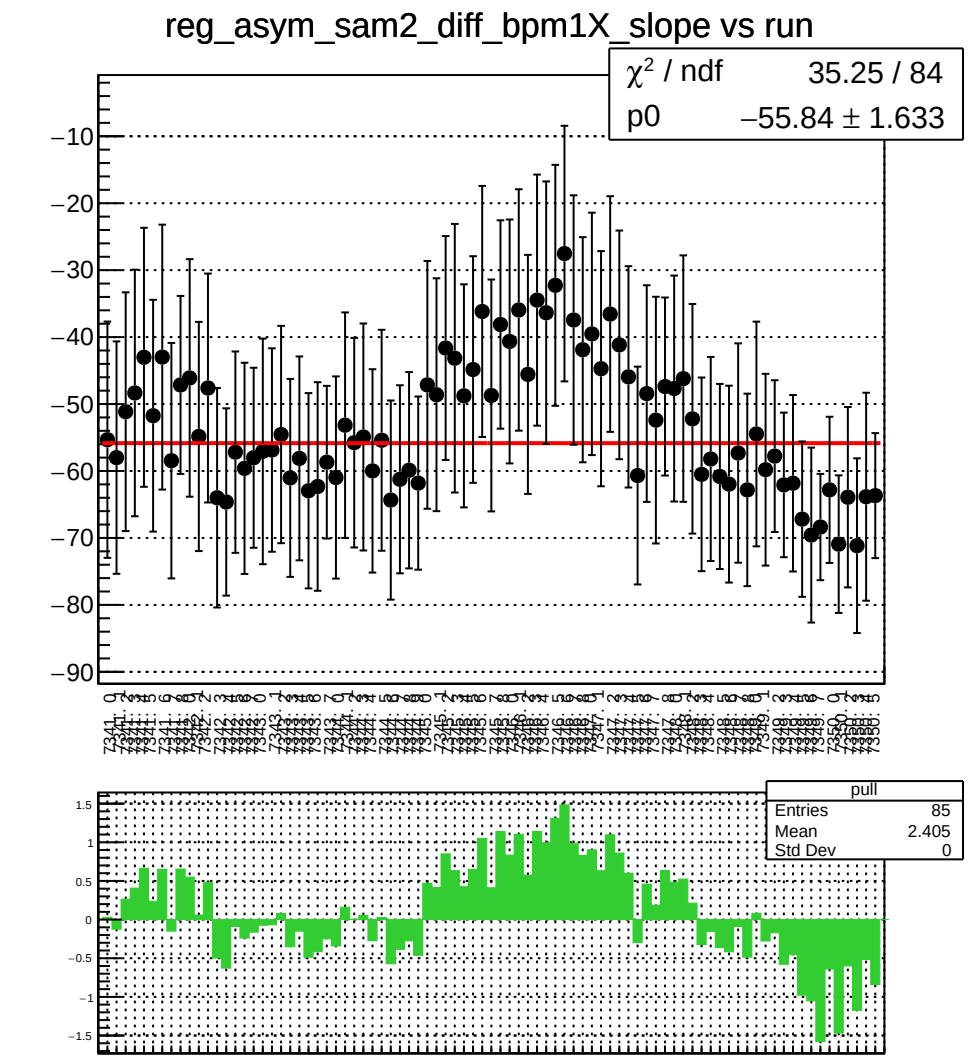

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 102.1 / 84
p0 −0.5022 ± 0.2802
pull
Entries 85
Mean −16.6
Std Dev 0

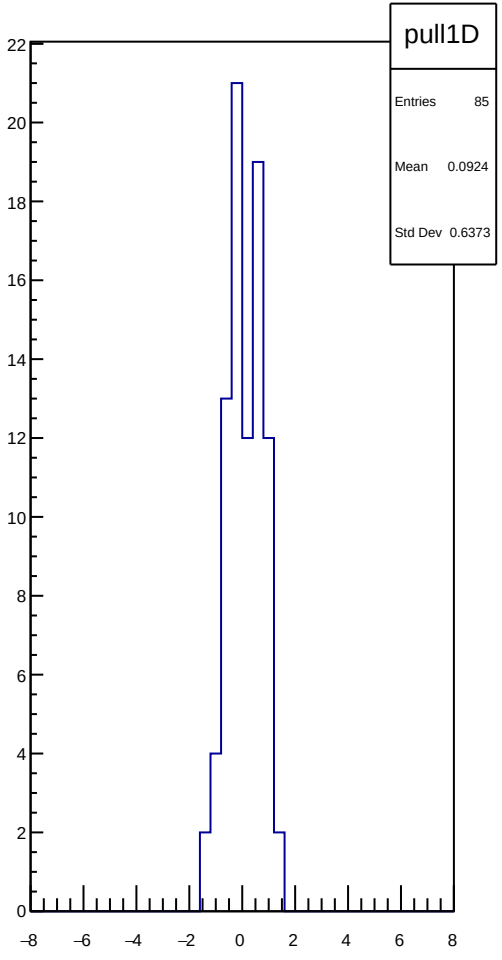

pull1D
Entries 85
Mean −0.1432
Std Dev 1.086

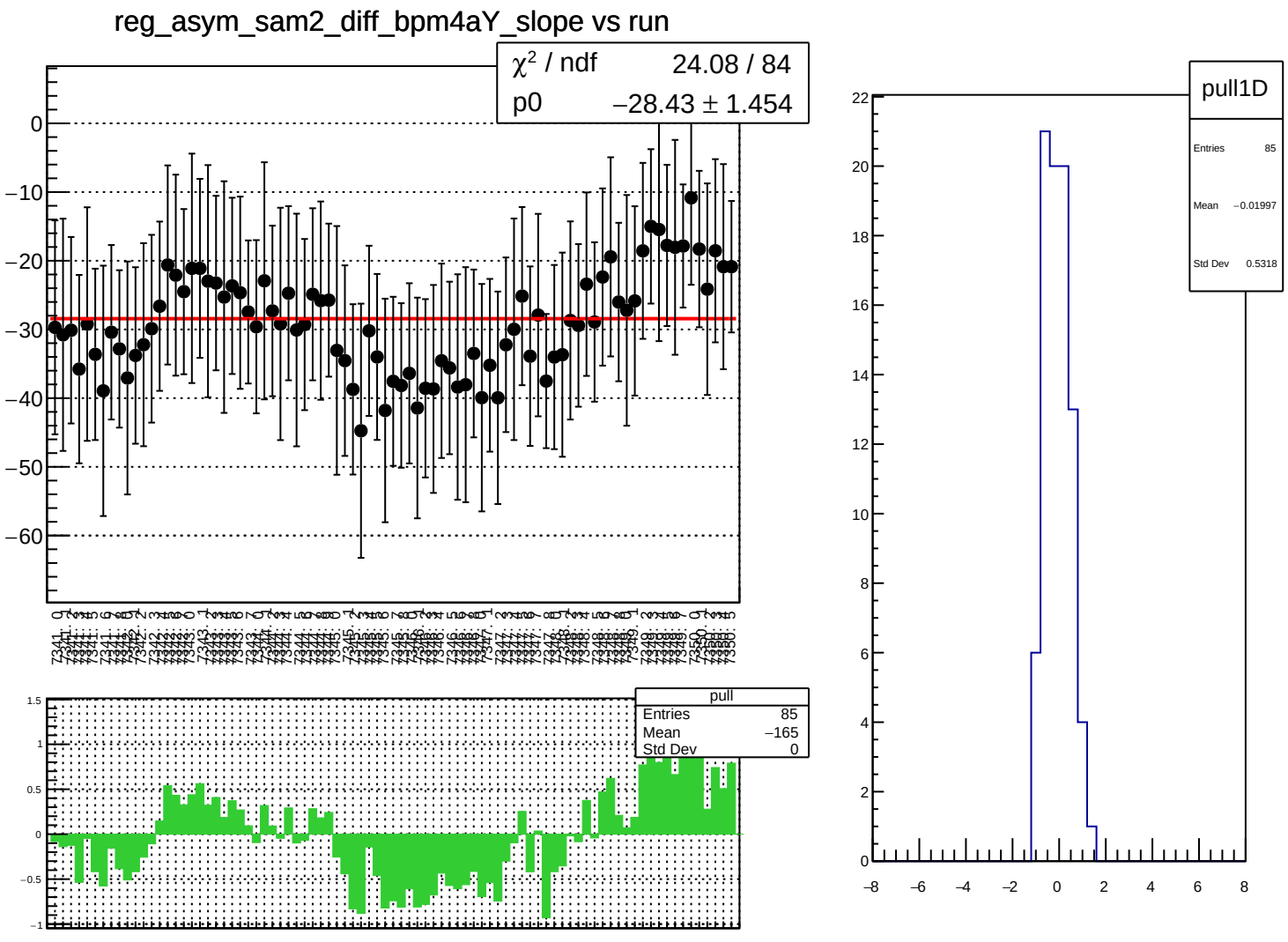

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 117.5 / 84
p0 14.42 ± 0.2757
pull
Entries 85
Mean 1739
Std Dev 0
pull1D
Entries 85
Mean −0.006929
Std Dev 1.176

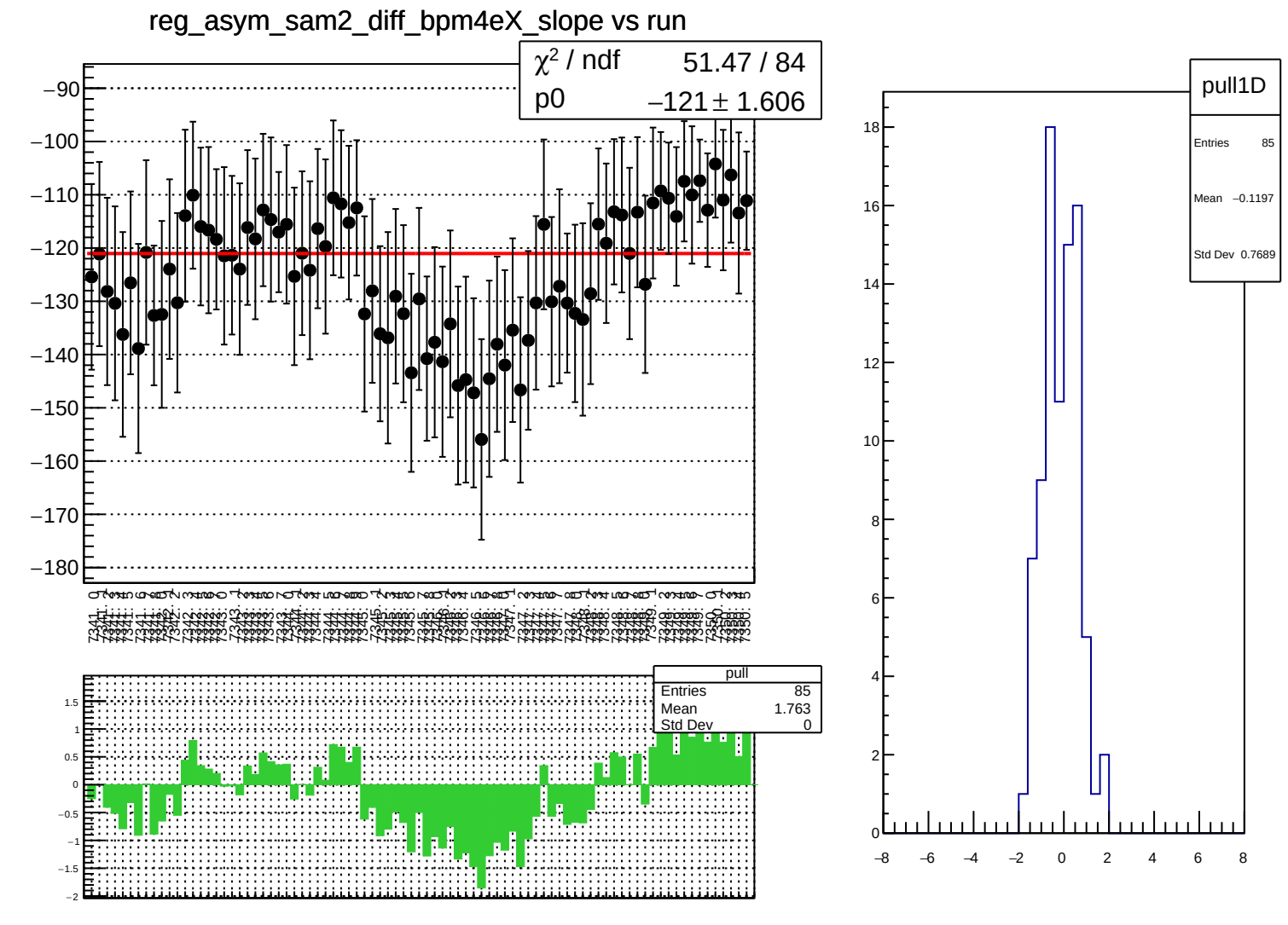

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 45.89 / 84
p0 0.5795 ± 0.01225
pull
Entries 85
Mean −590.7
Std Dev 0

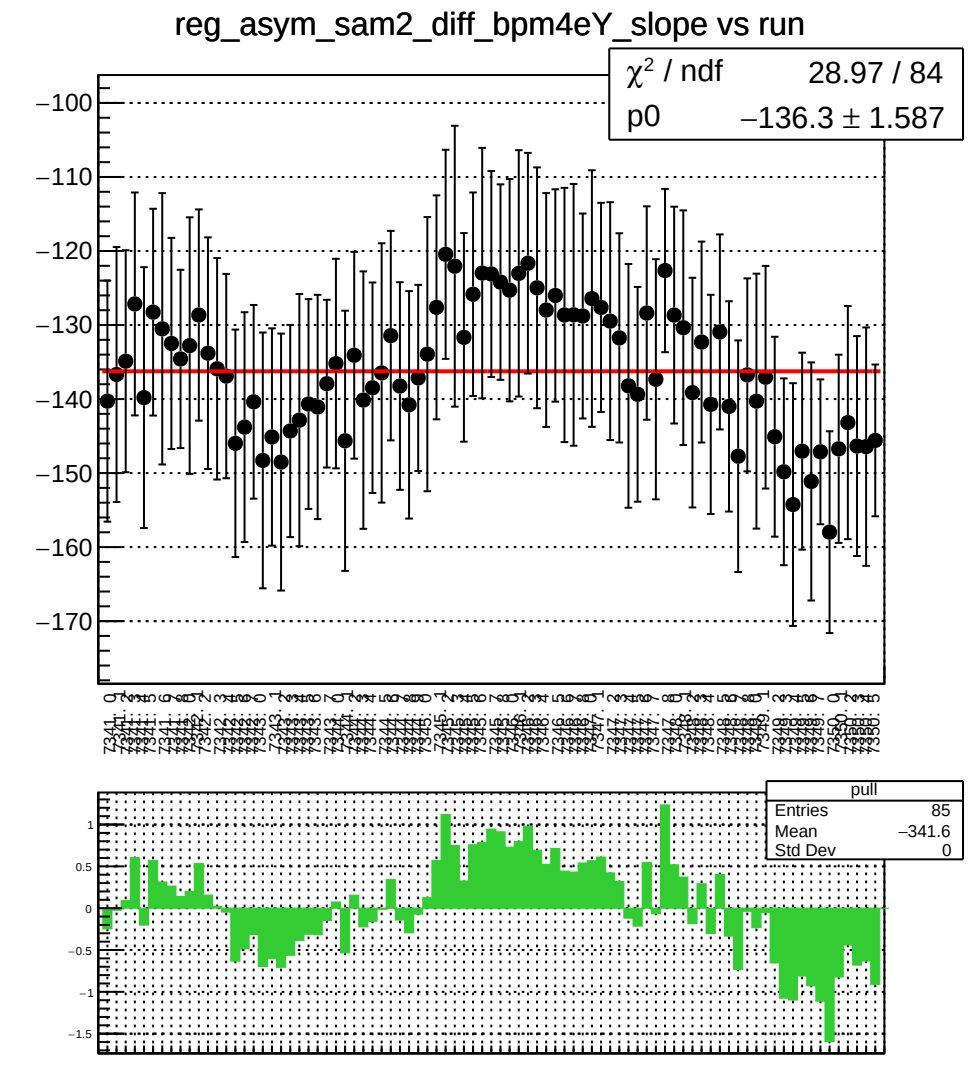

pull1D
Entries 85
Mean 0.01195
Std Dev 0.7346

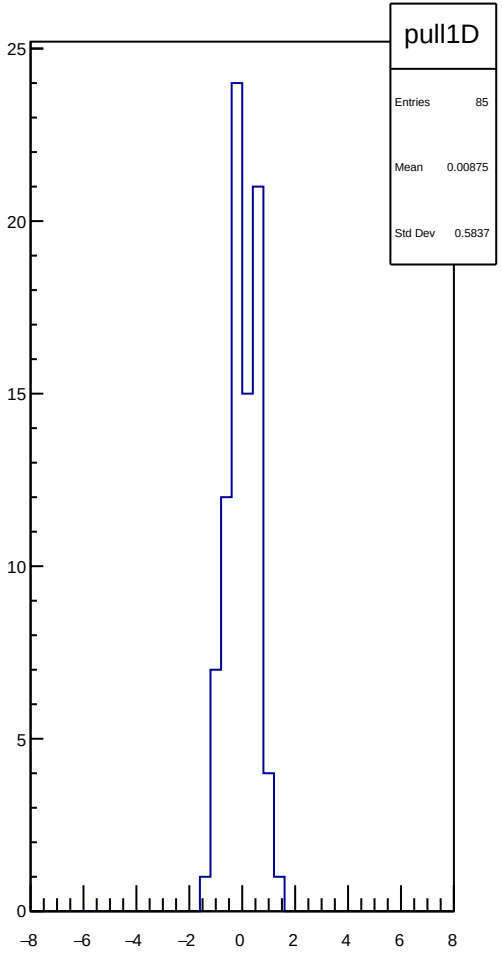

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 35.25 / 84
p0 −55.84 ± 1.633
pull
Entries 85
Mean 2.405
Std Dev 0

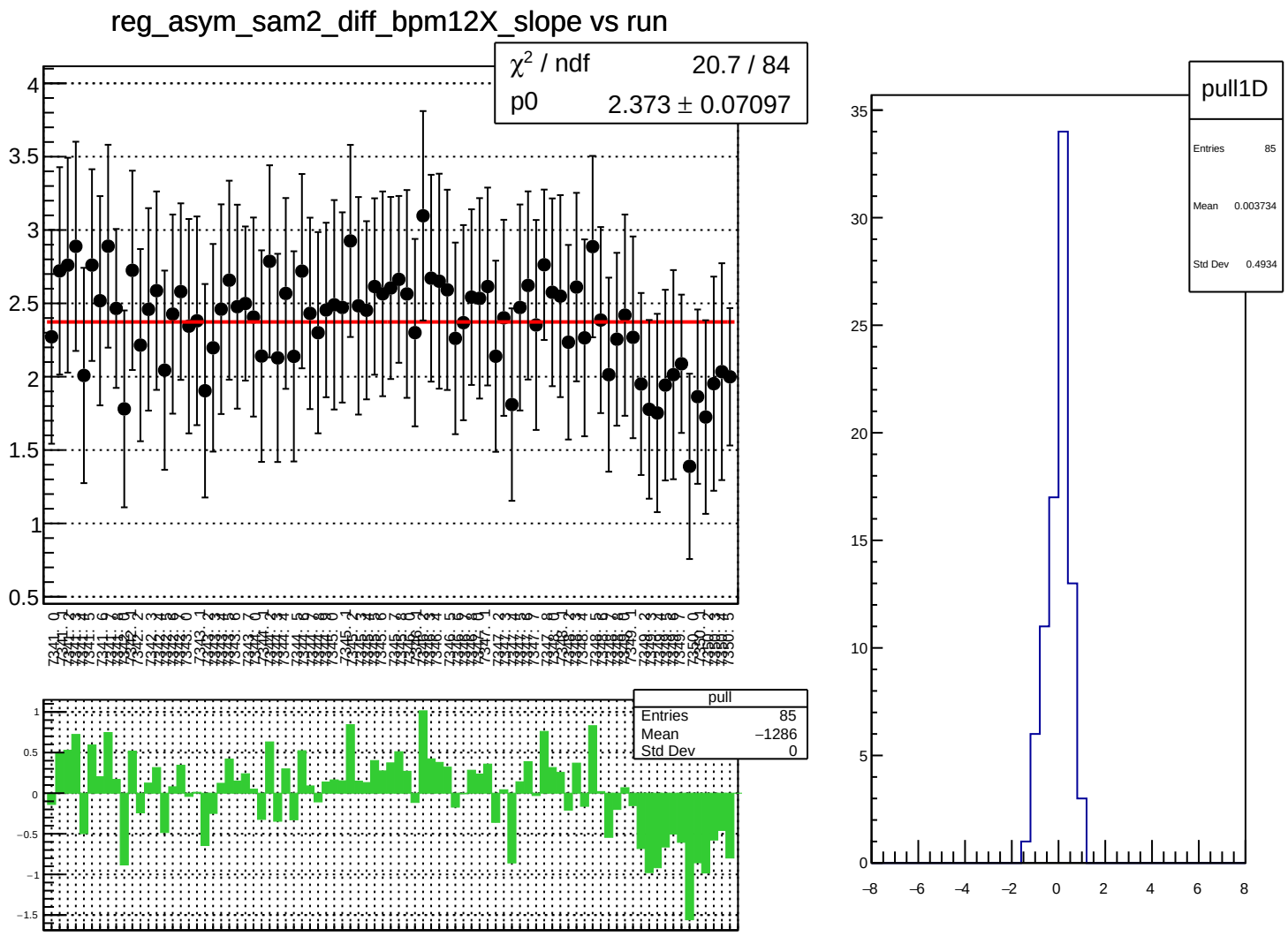

pull1D
Entries 85
Mean 0.0924
Std Dev 0.6373

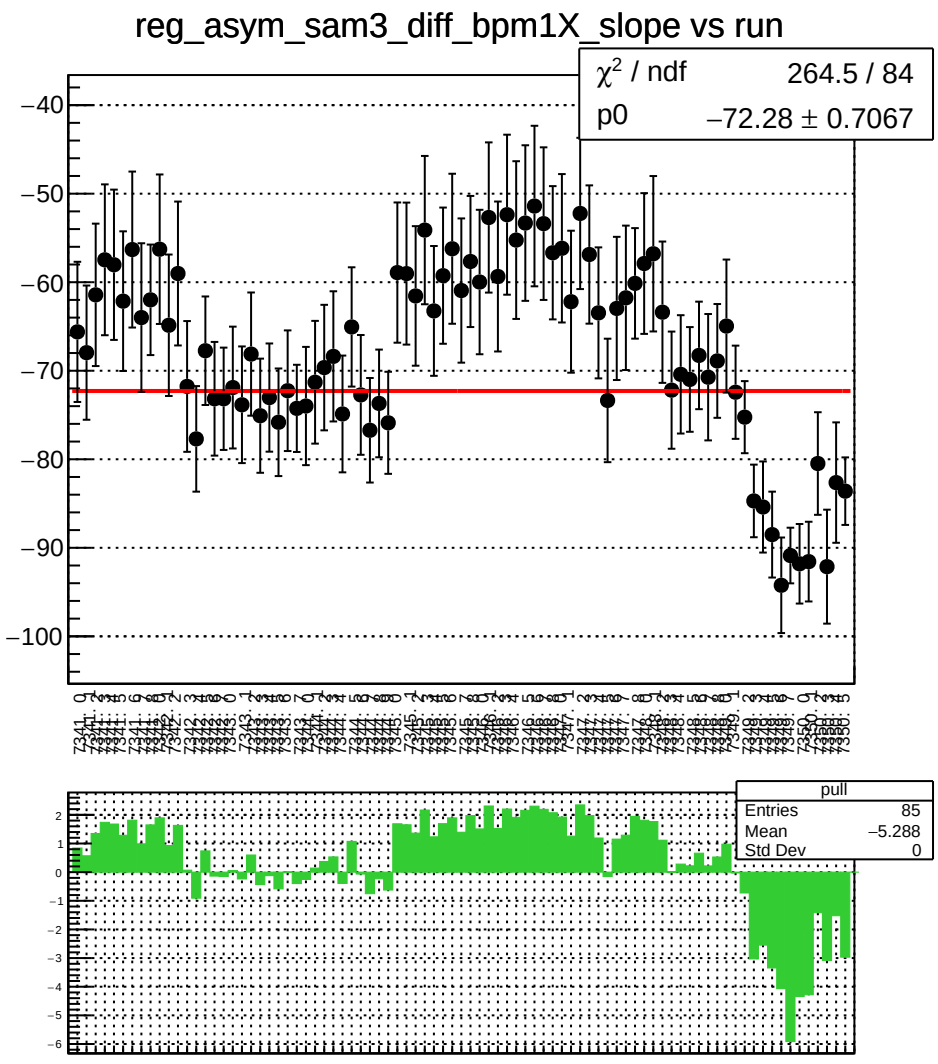

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 24.08 / 84
p0 −28.43 ± 1.454
pull
Entries 85
Mean −165
Std Dev 0
pull1D
Entries 85
Mean −0.01997
Std Dev 0.5318

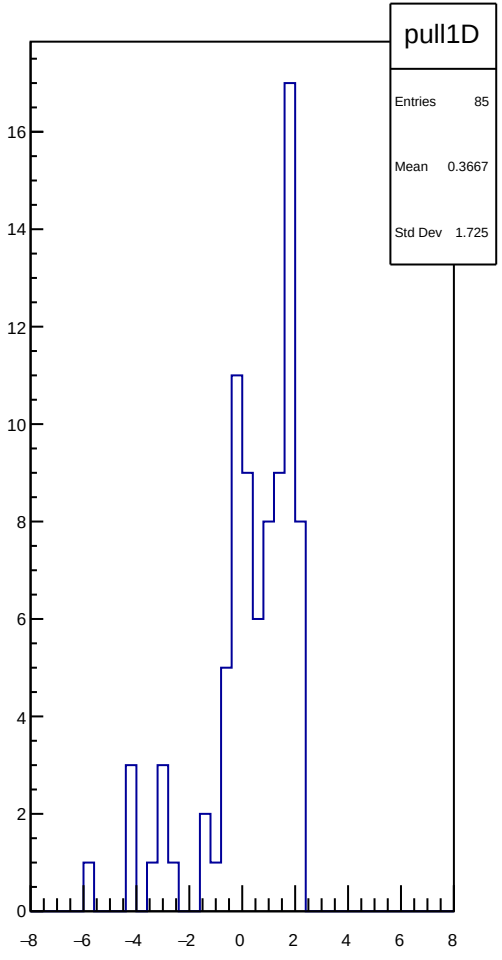

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 51.47 / 84
p0 −121 ± 1.606
pull
Entries 85
Mean 1.763
Std Dev 0
pull1D
Entries 85
Mean −0.1197
Std Dev 0.7689

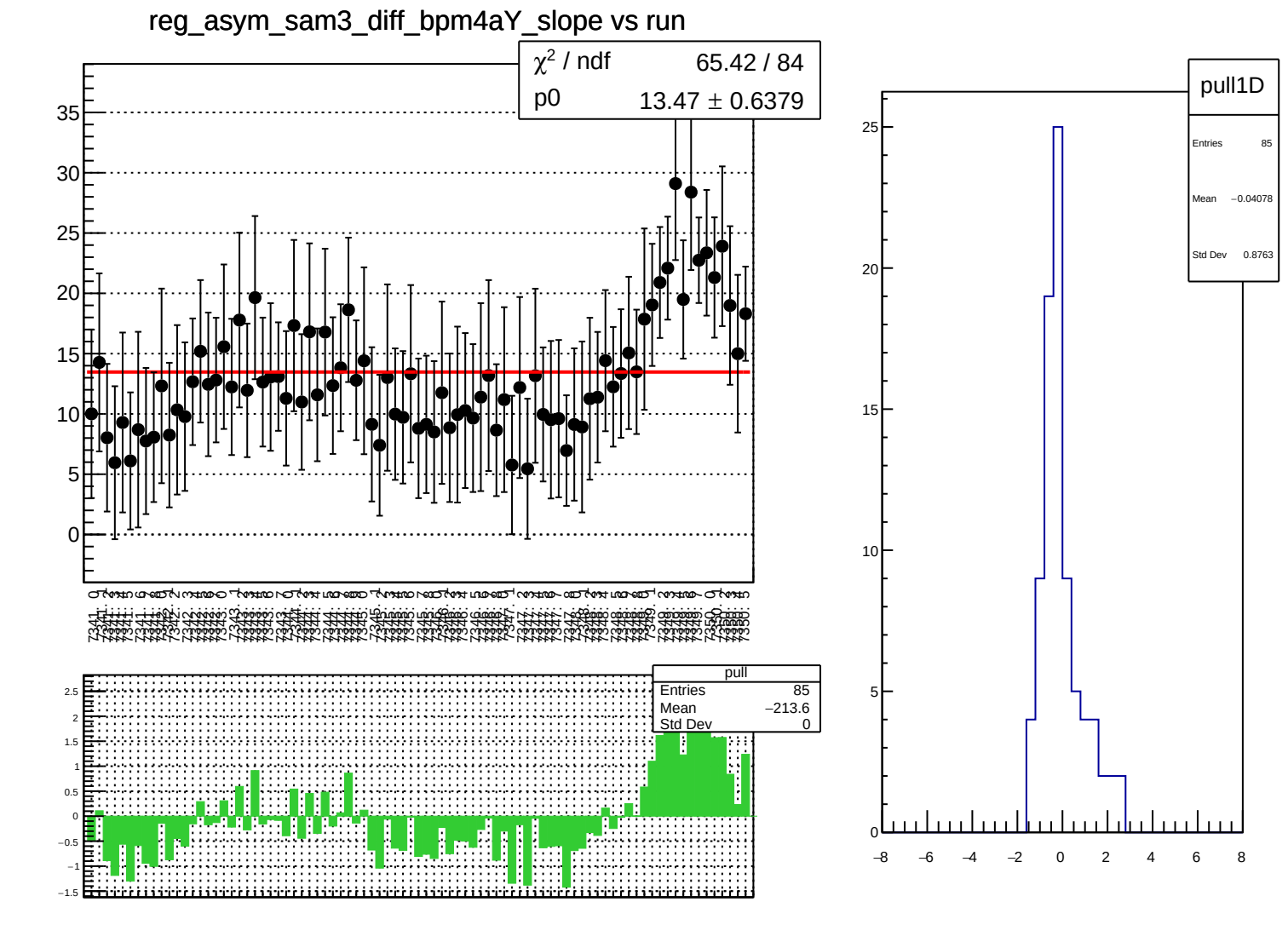

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 28.97 / 84
p0 −136.3 ± 1.587
pull
Entries 85
Mean −341.6
Std Dev 0

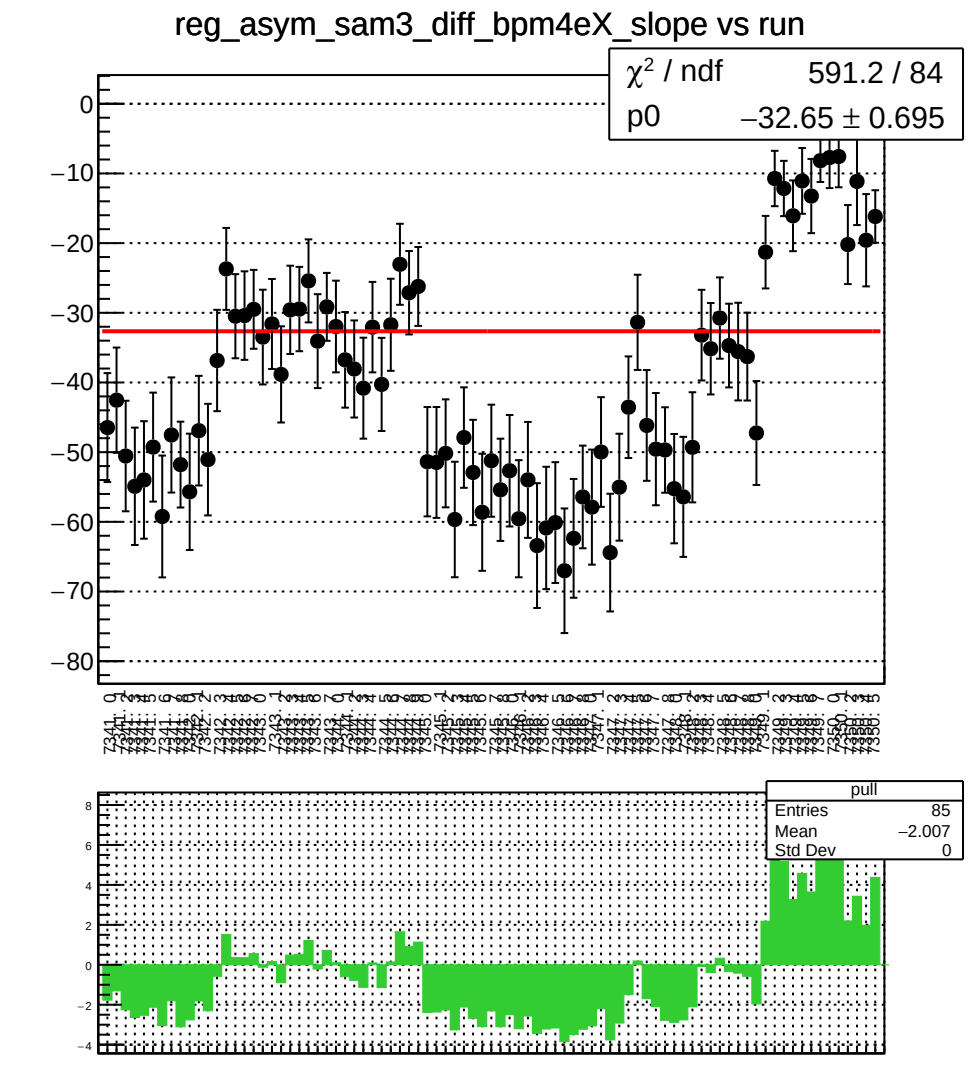

pull1D
Entries 85
Mean 0.00875
Std Dev 0.5837

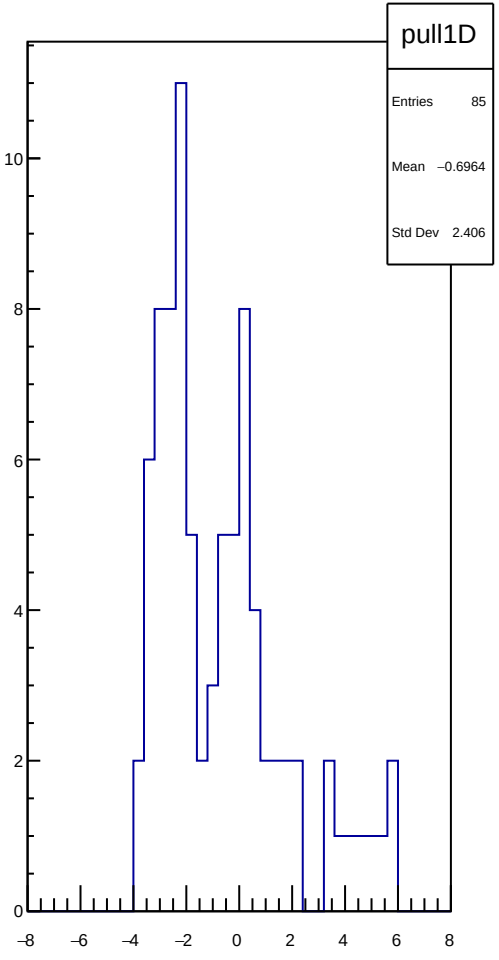

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 20.7 / 84
p0 2.373 ± 0.07097
pull
Entries 85
Mean −1286
Std Dev 0
pull1D
Entries 85
Mean 0.003734
Std Dev 0.4934

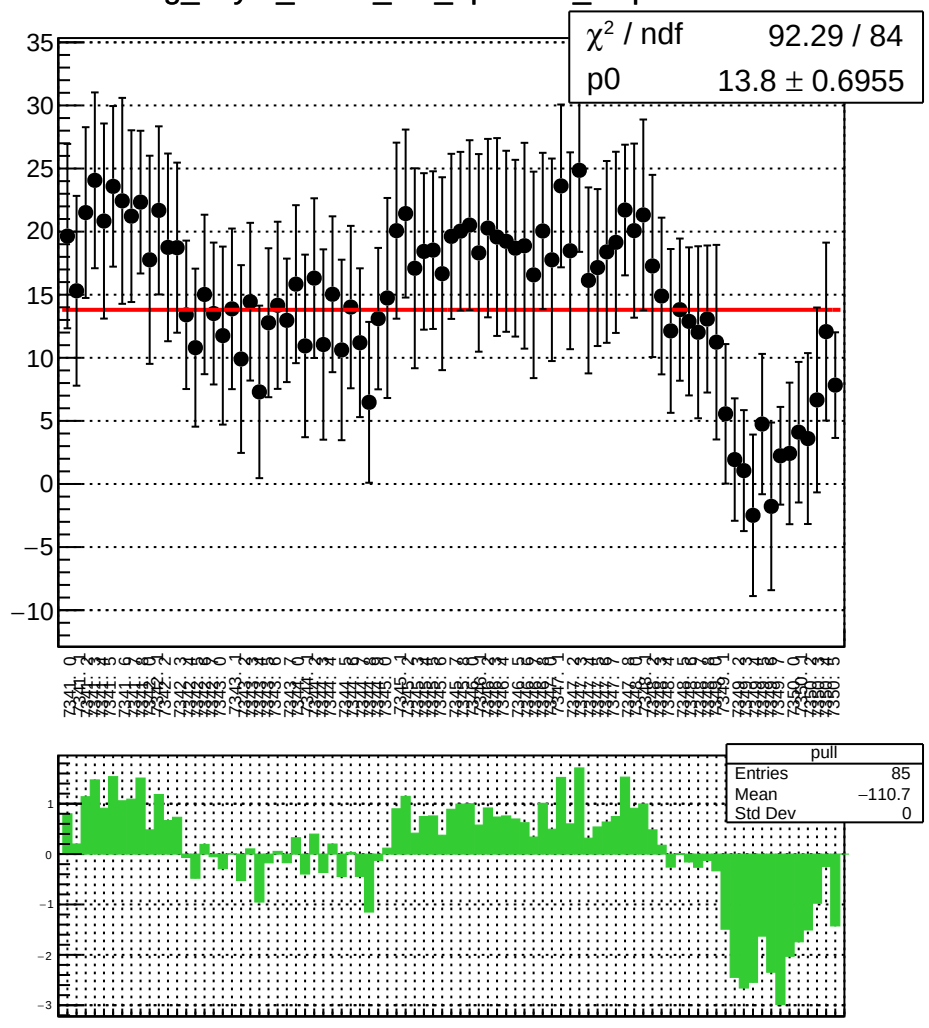

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 264.5 / 84
p0 −72.28 ± 0.7067
pull
Entries 85
Mean −5.288
Std Dev 0

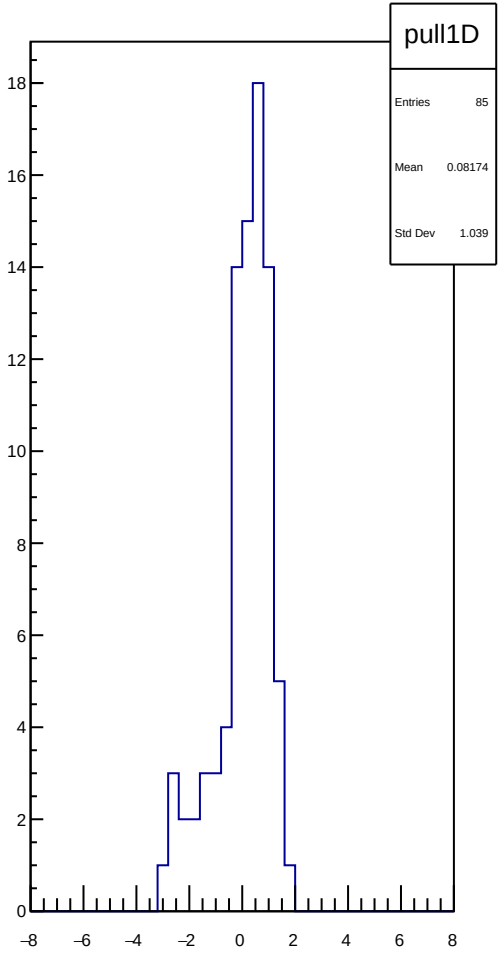

pull1D
Entries 85
Mean 0.3667
Std Dev 1.725

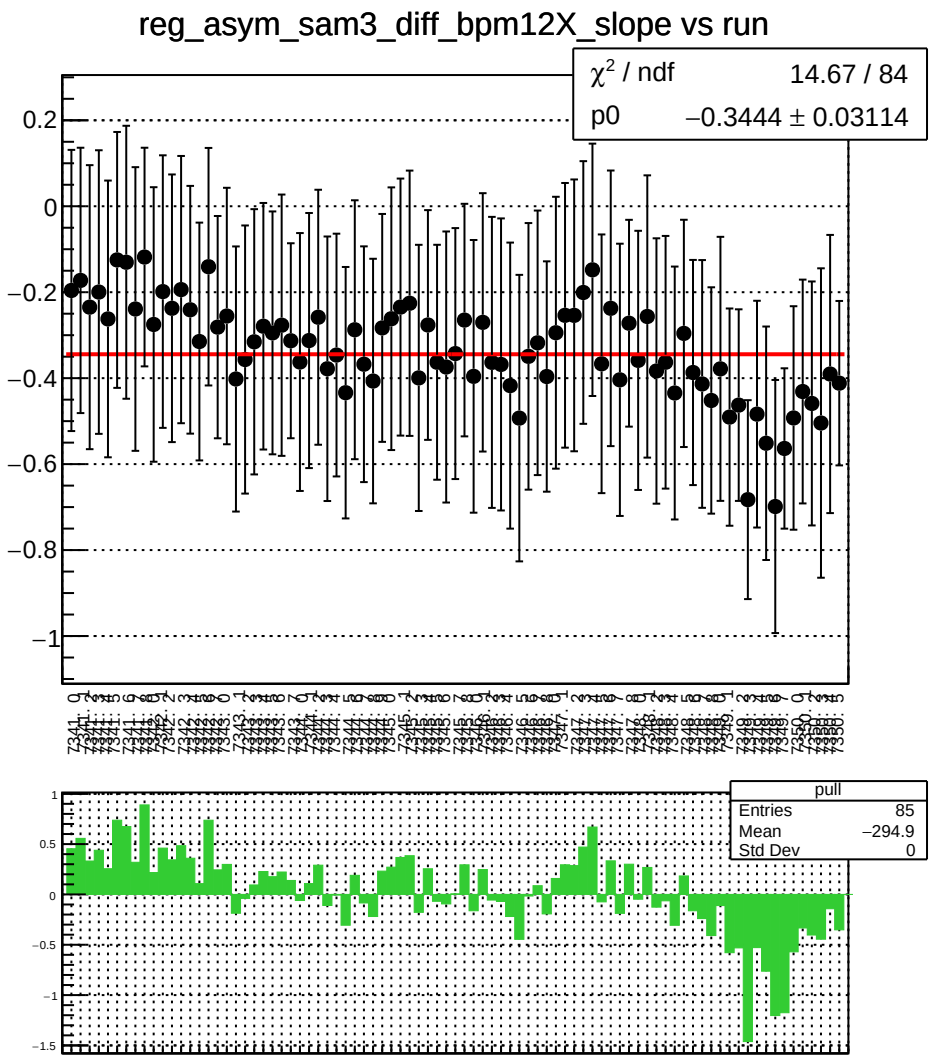

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 65.42 / 84
p0 13.47 ± 0.6379
pull
Entries 85
Mean −213.6
Std Dev 0
pull1D
Entries 85
Mean −0.04078
Std Dev 0.8763

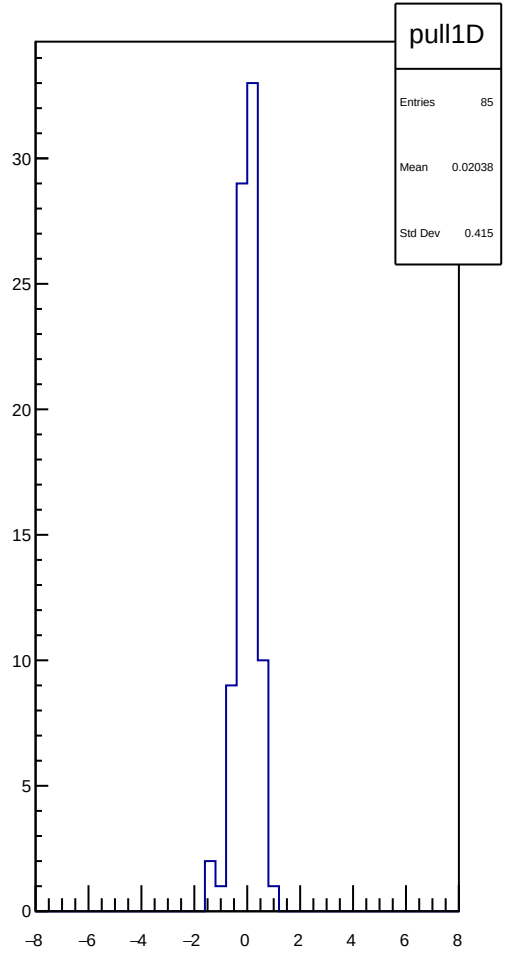

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 591.2 / 84
p0 −32.65 ± 0.695
pull
Entries 85
Mean −2.007
Std Dev 0

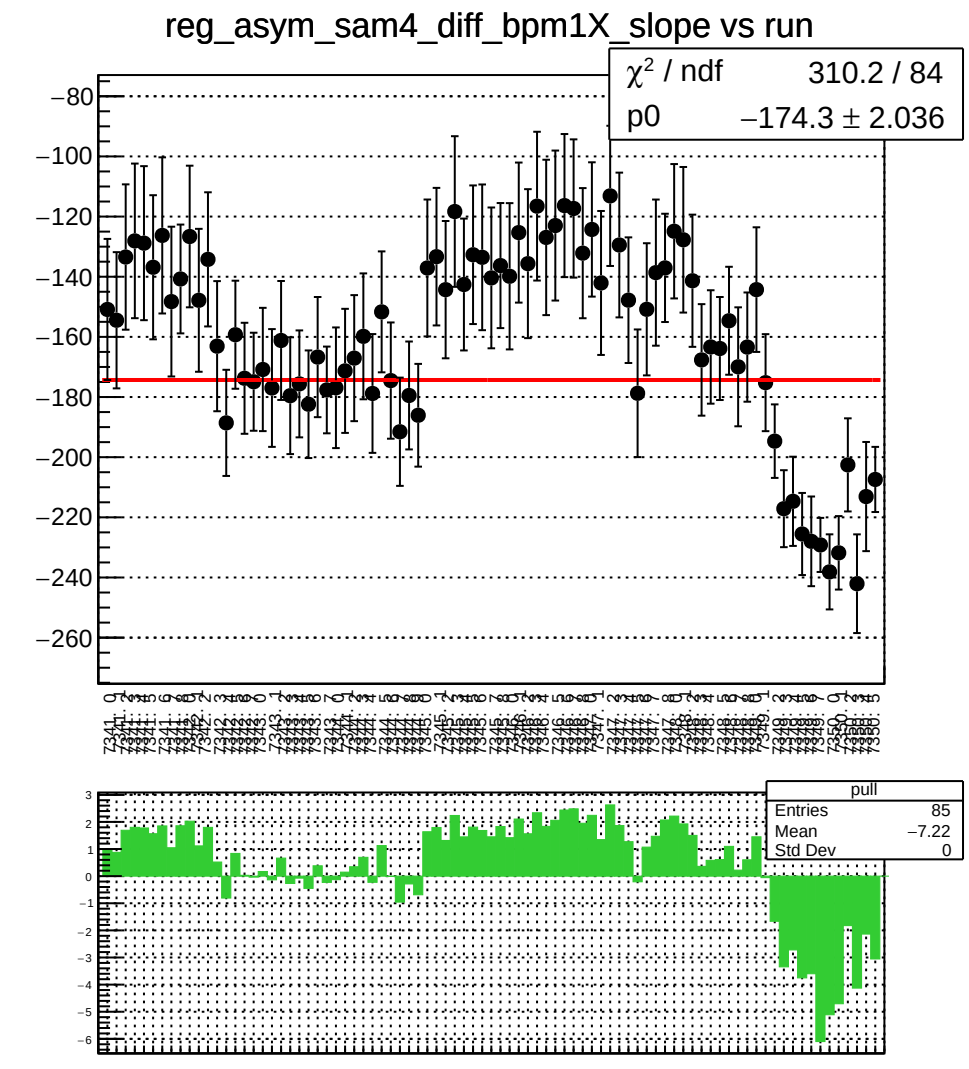

pull1D
Entries 85
Mean −0.6964
Std Dev 2.406

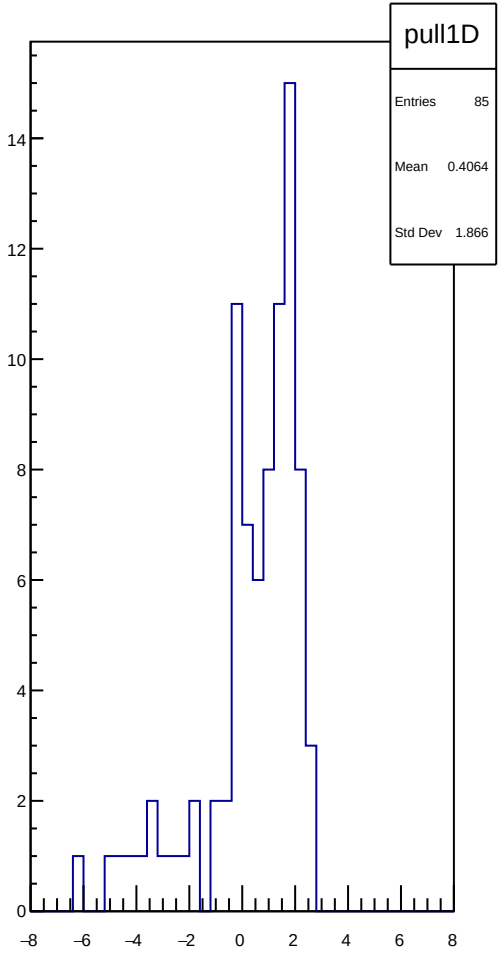

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 92.29 / 84
p0 13.8 ± 0.6955
pull
Entries 85
Mean −110.7
Std Dev 0

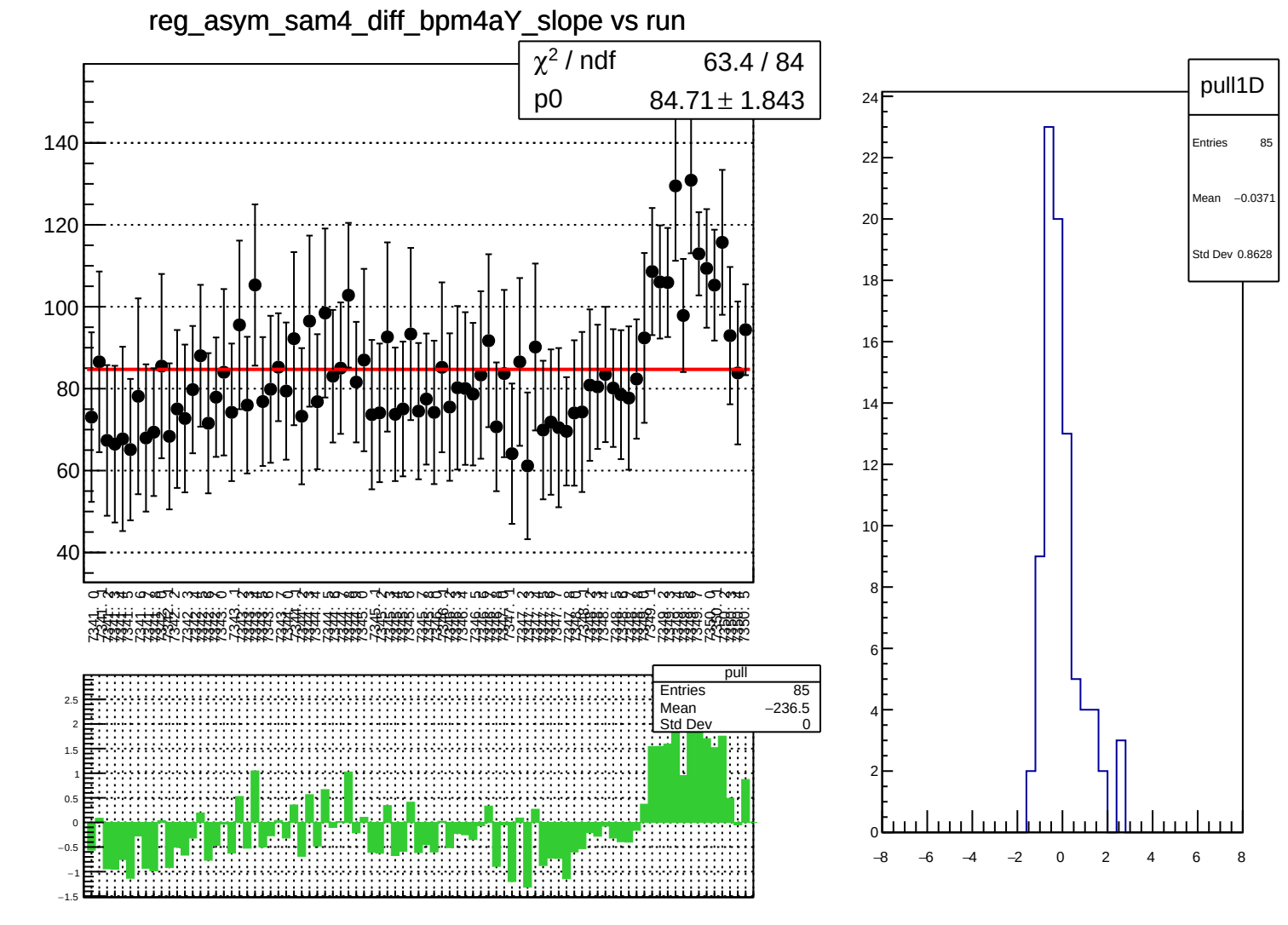

pull1D
Entries 85
Mean 0.08174
Std Dev 1.039

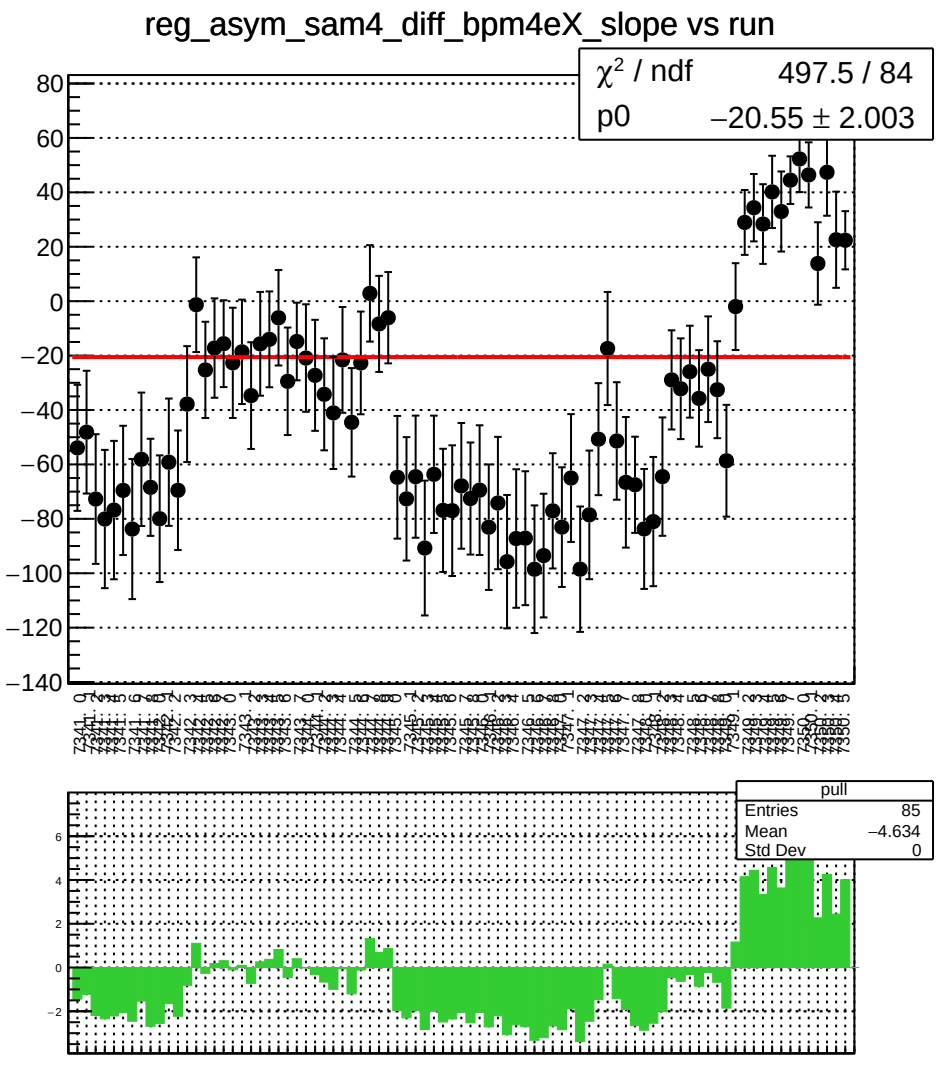

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 14.67 / 84
p0 −0.3444 ± 0.03114
pull
Entries 85
Mean −294.9
Std Dev 0

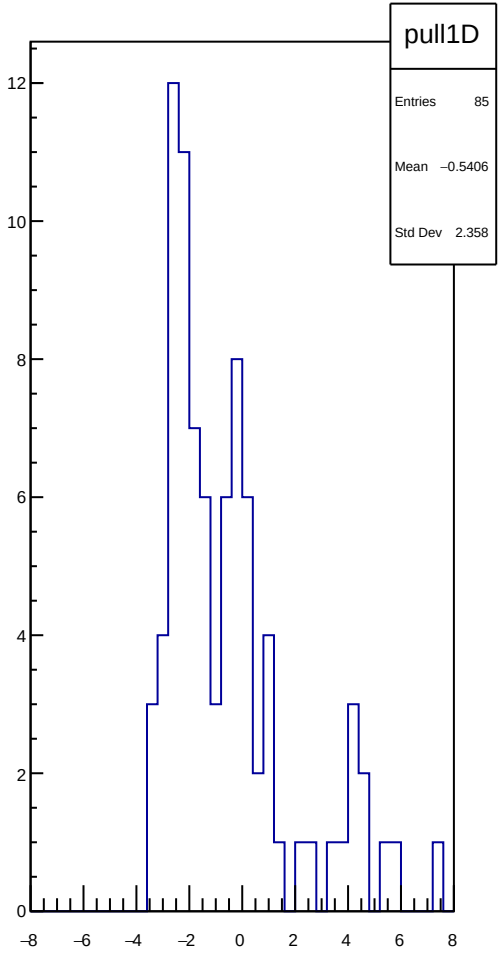

pull1D
Entries 85
Mean 0.02038
Std Dev 0.415

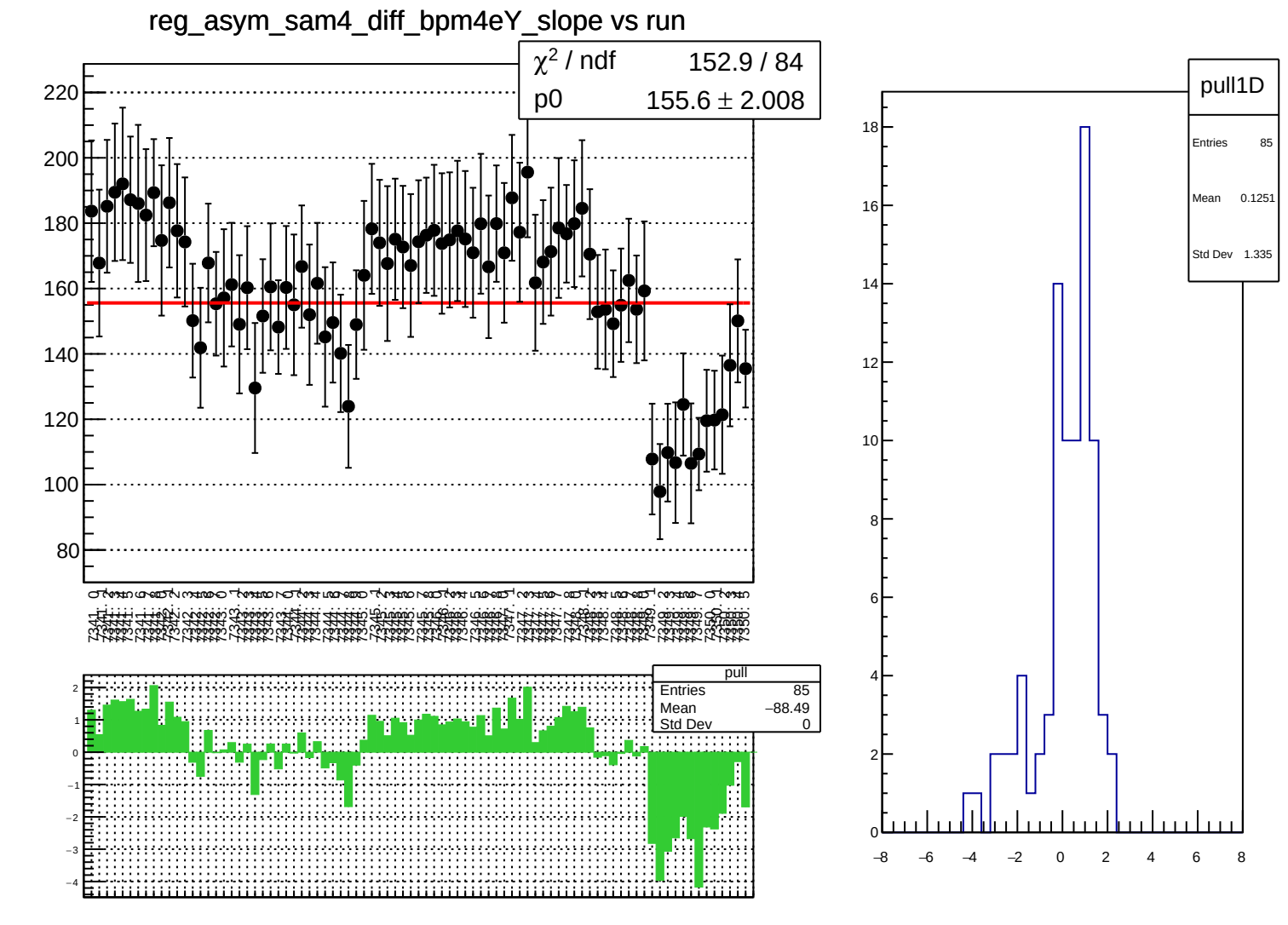

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 310.2 / 84
p0 −174.3 ± 2.036
pull
Entries 85
Mean −7.22
Std Dev 0

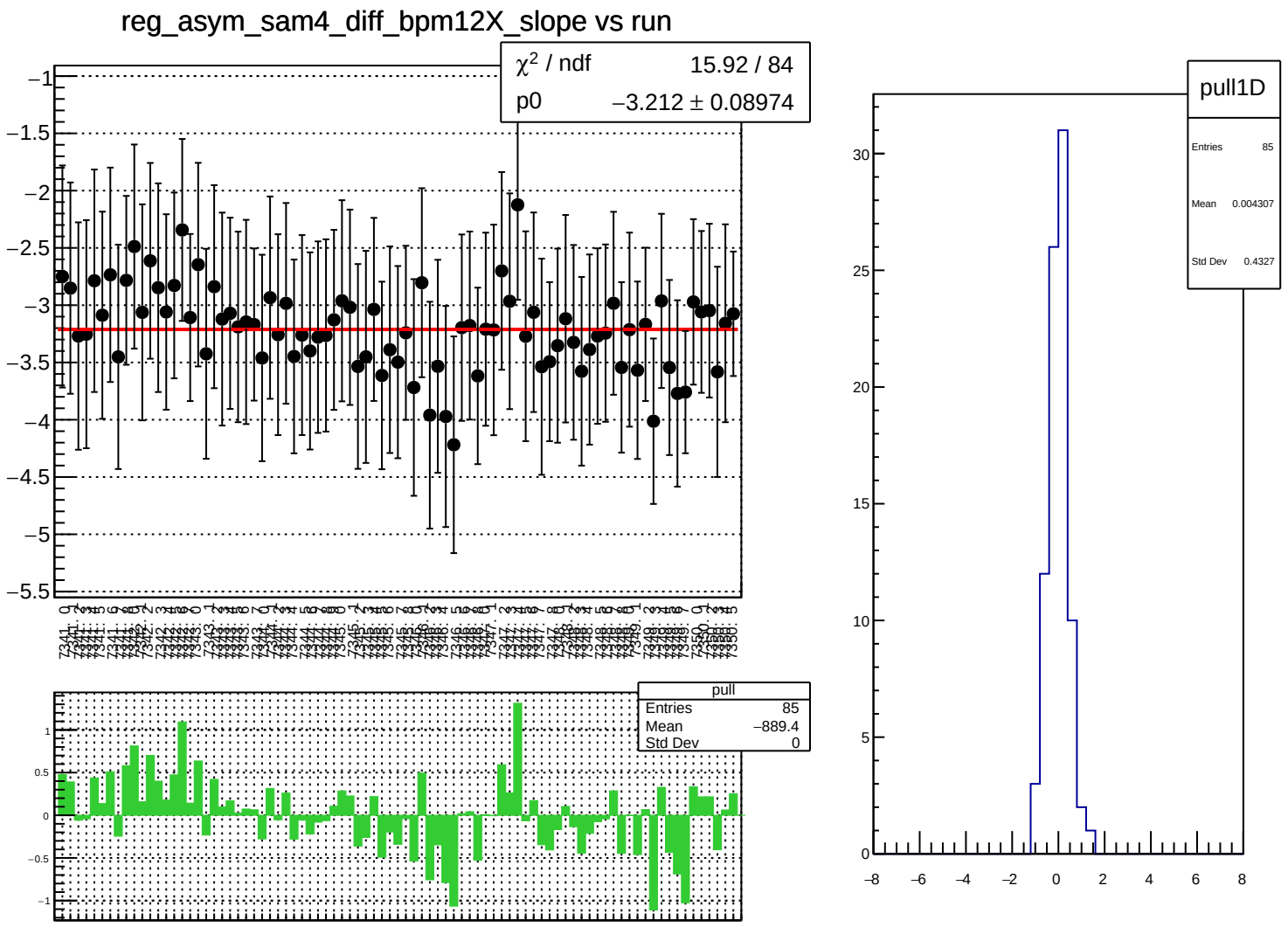

pull1D
Entries 85
Mean 0.4064
Std Dev 1.866

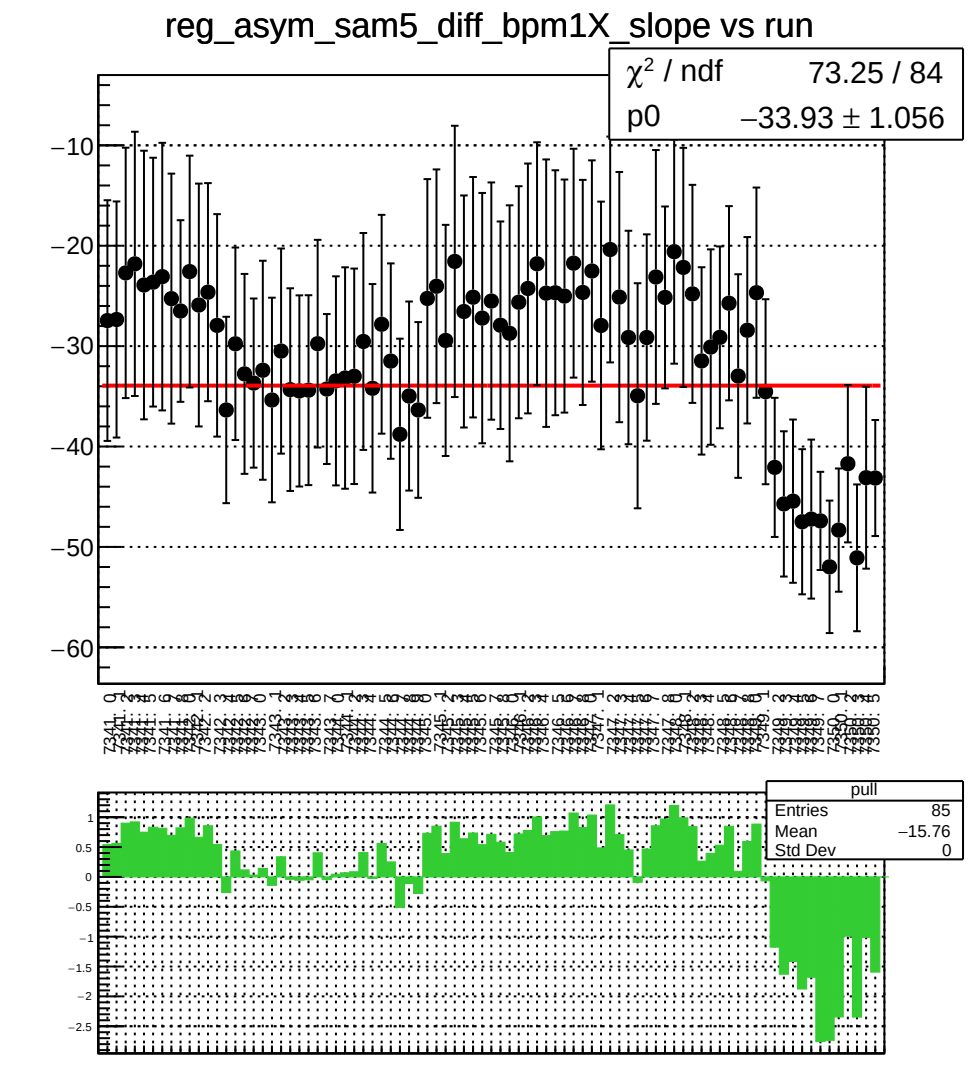

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 63.4 / 84
p0 84.71 ± 1.843
pull
Entries 85
Mean −236.5
Std Dev 0
pull1D
Entries 85
Mean −0.0371
Std Dev 0.8628

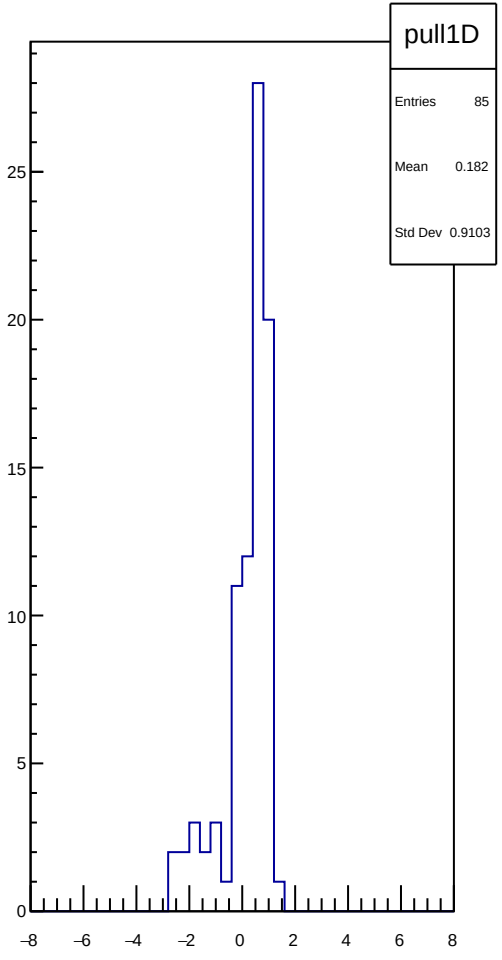

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 497.5 / 84
p0 −20.55 ± 2.003
pull
Entries 85
Mean −4.634
Std Dev 0

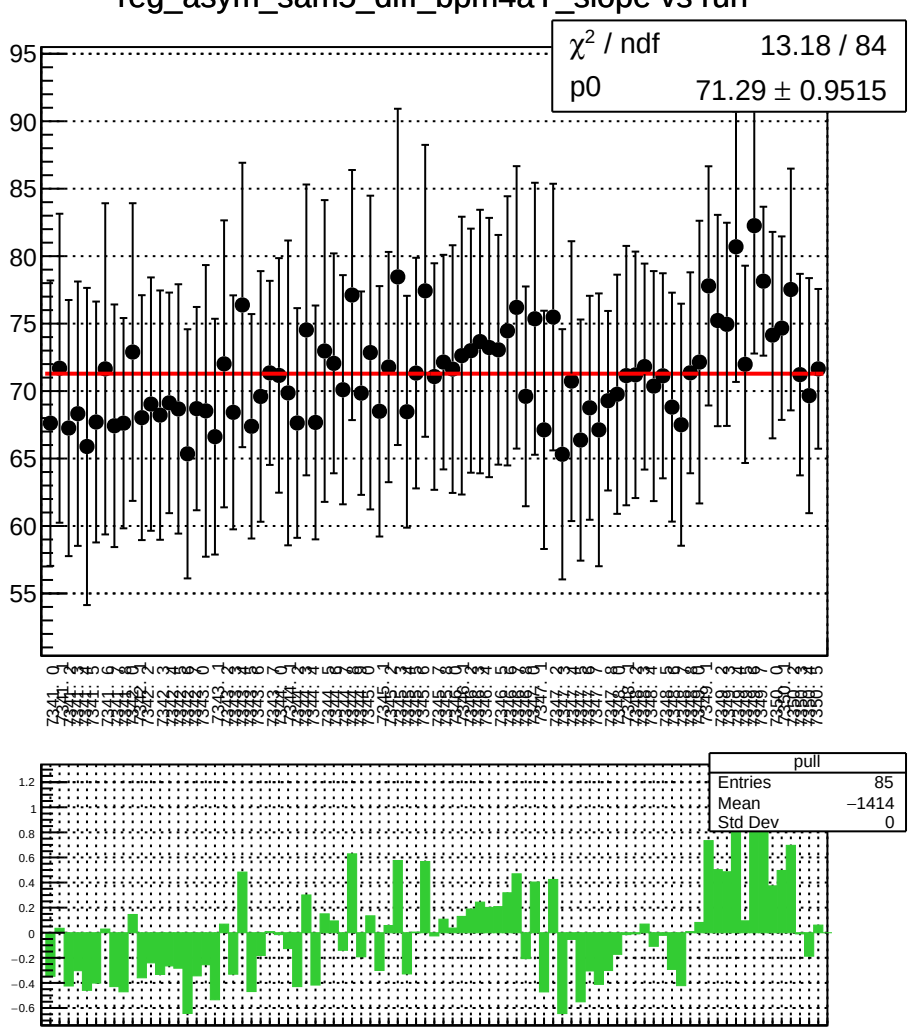

pull1D
Entries 85
Mean −0.5406
Std Dev 2.358

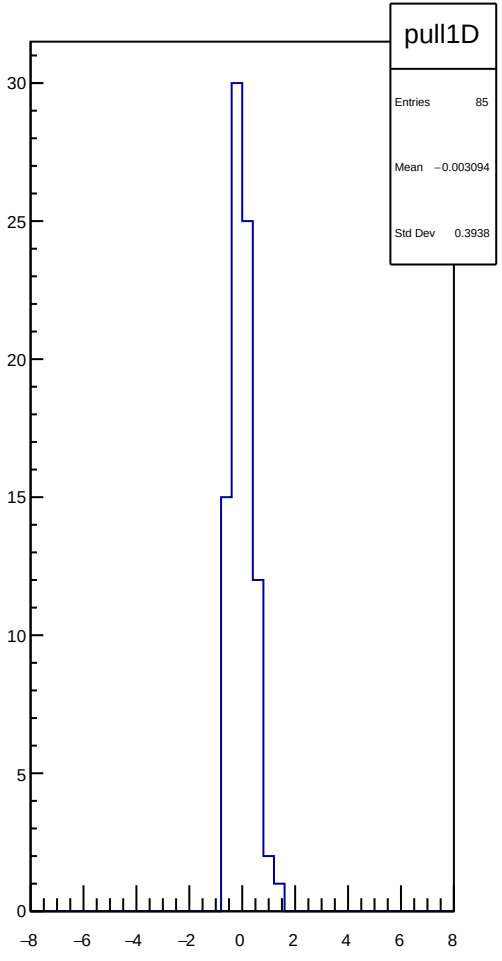

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 152.9 / 84
p0 155.6 ± 2.008
pull
Entries 85
Mean −88.49
Std Dev 0
pull1D
Entries 85
Mean 0.1251
Std Dev 1.335

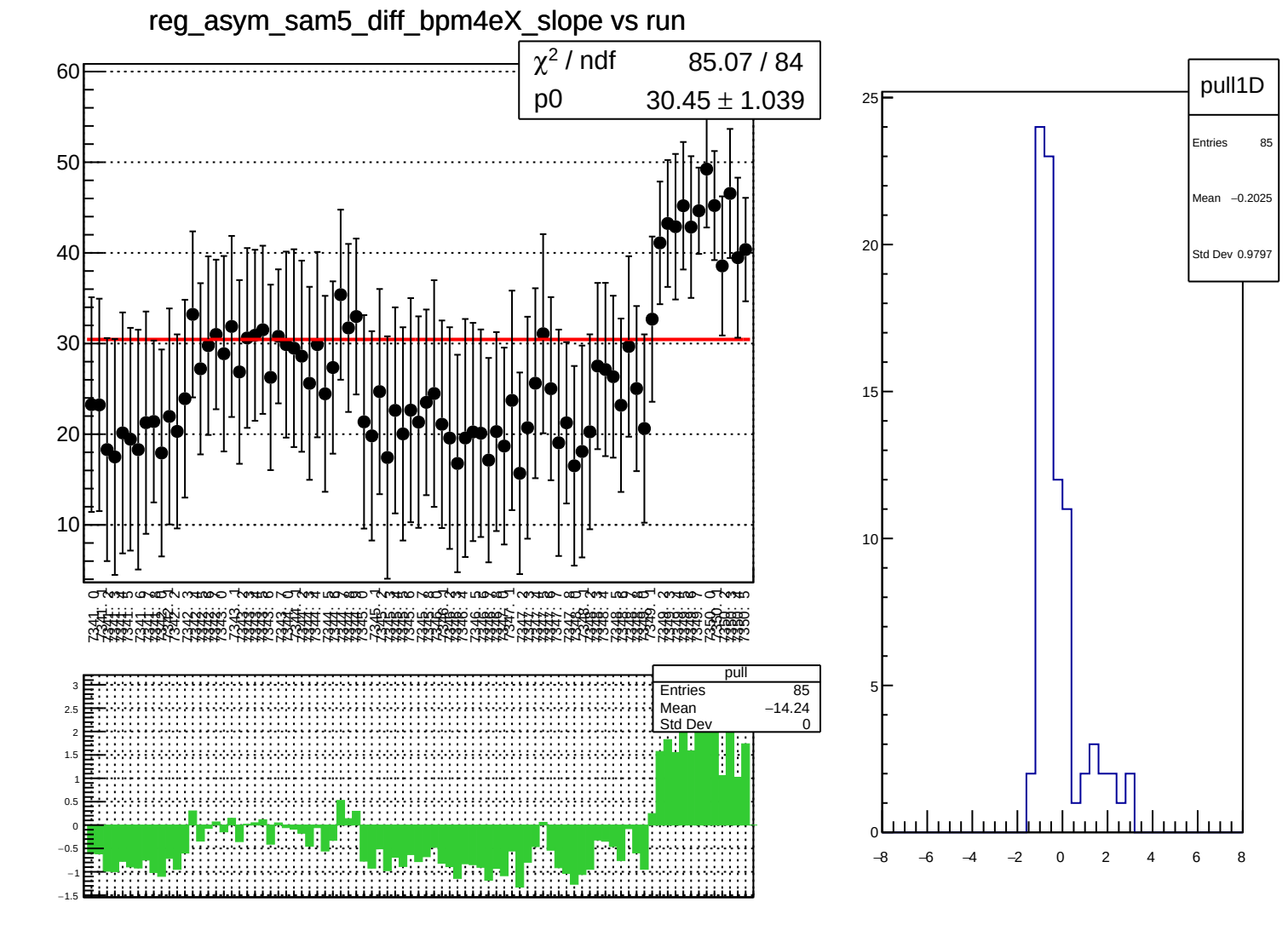

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 15.92 / 84
p0 −3.212 ± 0.08974
pull
Entries 85
Mean −889.4
Std Dev 0
pull1D
Entries 85
Mean 0.004307
Std Dev 0.4327

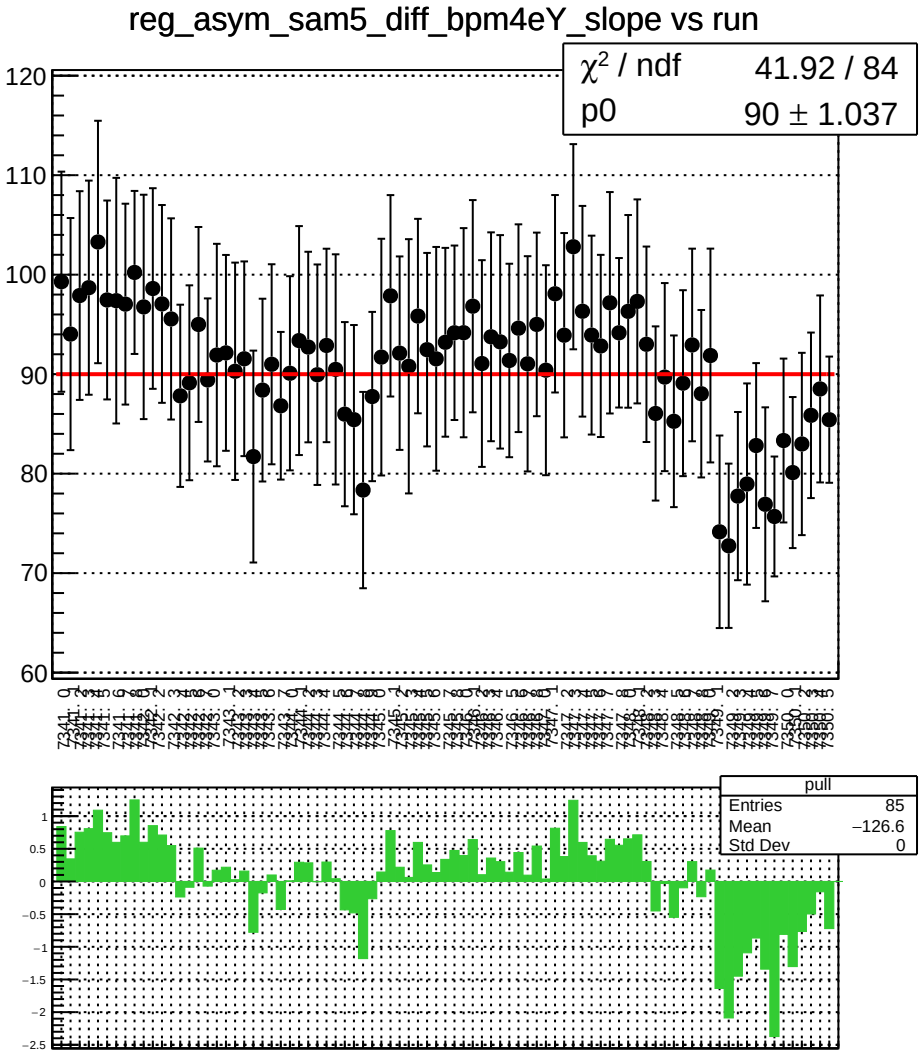

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 73.25 / 84
p0 −33.93 ± 1.056
pull
Entries 85
Mean −15.76
Std Dev 0

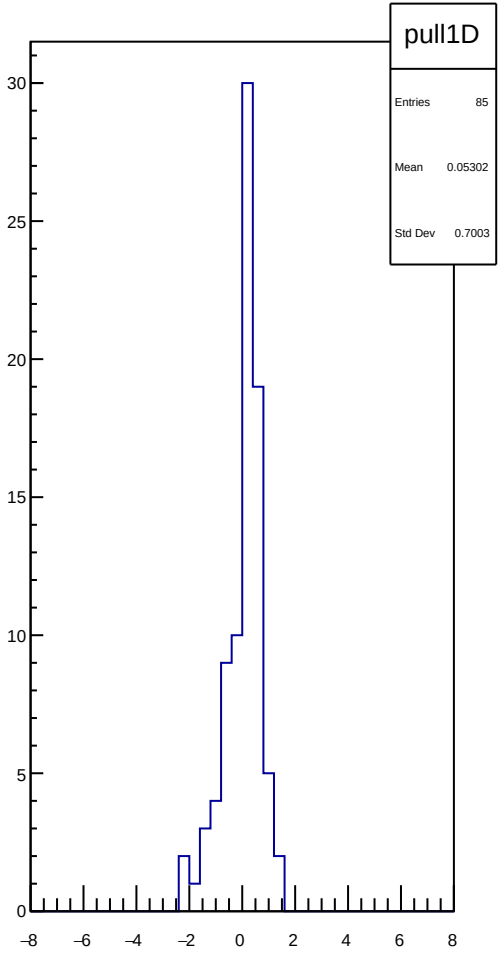

pull1D
Entries 85
Mean 0.182
Std Dev 0.9103

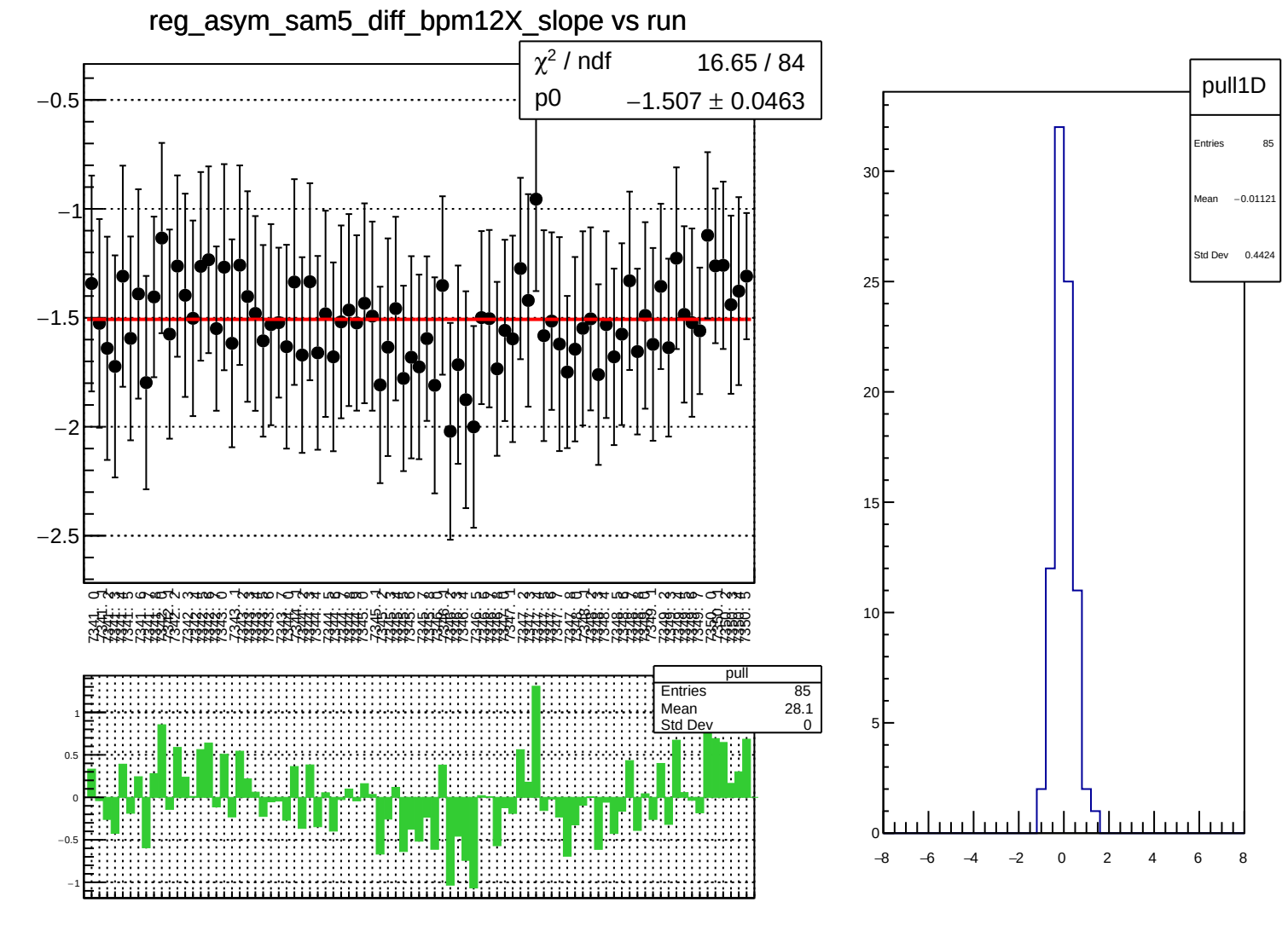

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 13.18 / 84
p0 71.29 ± 0.9515
pull
Entries 85
Mean −1414
Std Dev 0

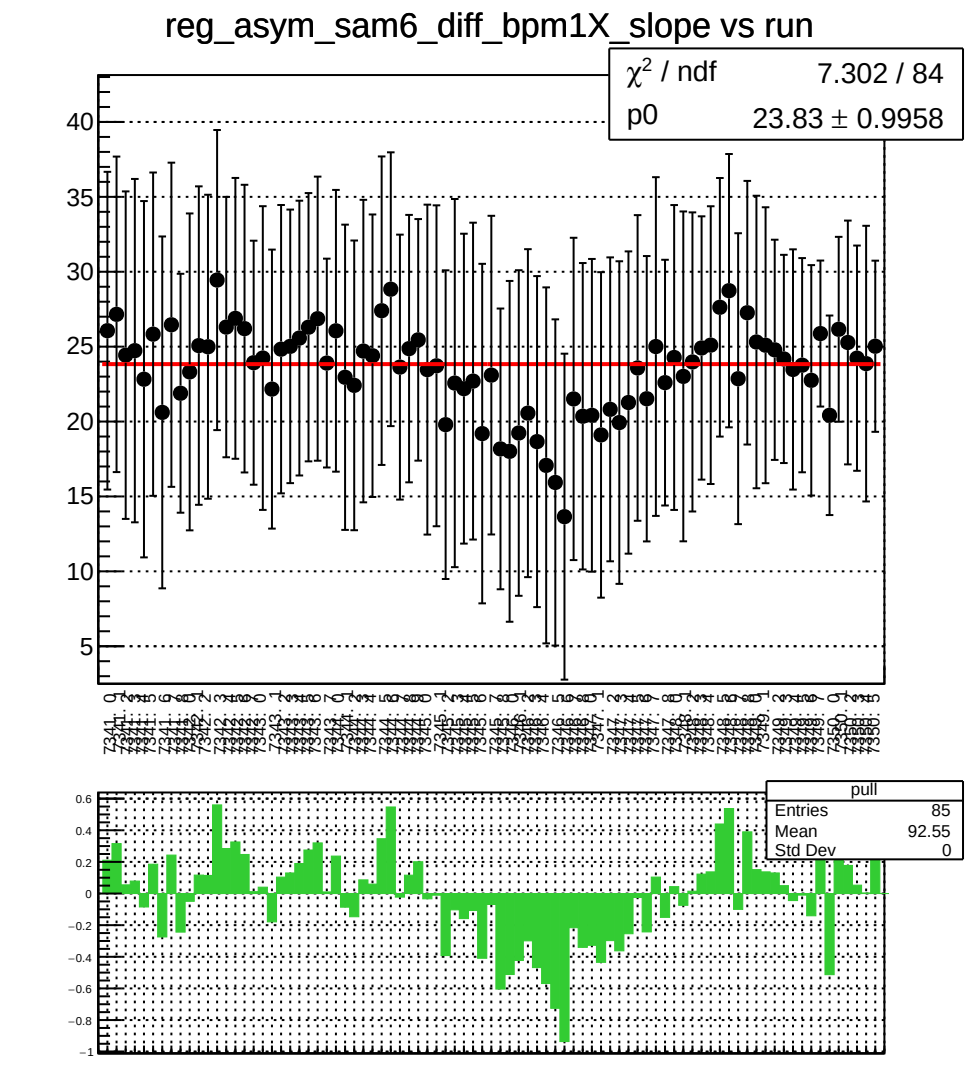

pull1D
Entries 85
Mean −0.003094
Std Dev 0.3938

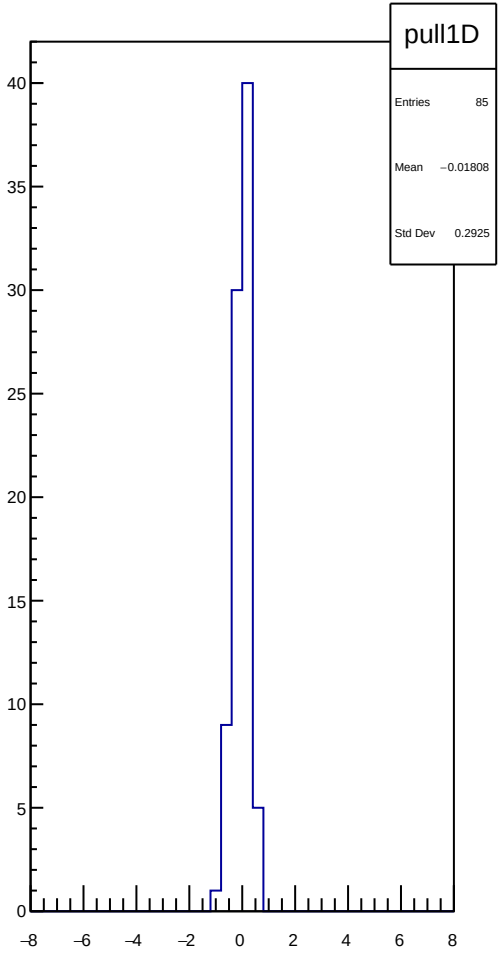

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 85.07 / 84
p0 30.45 ± 1.039
pull
Entries 85
Mean −14.24
Std Dev 0
pull1D
Entries 85
Mean −0.2025
Std Dev 0.9797

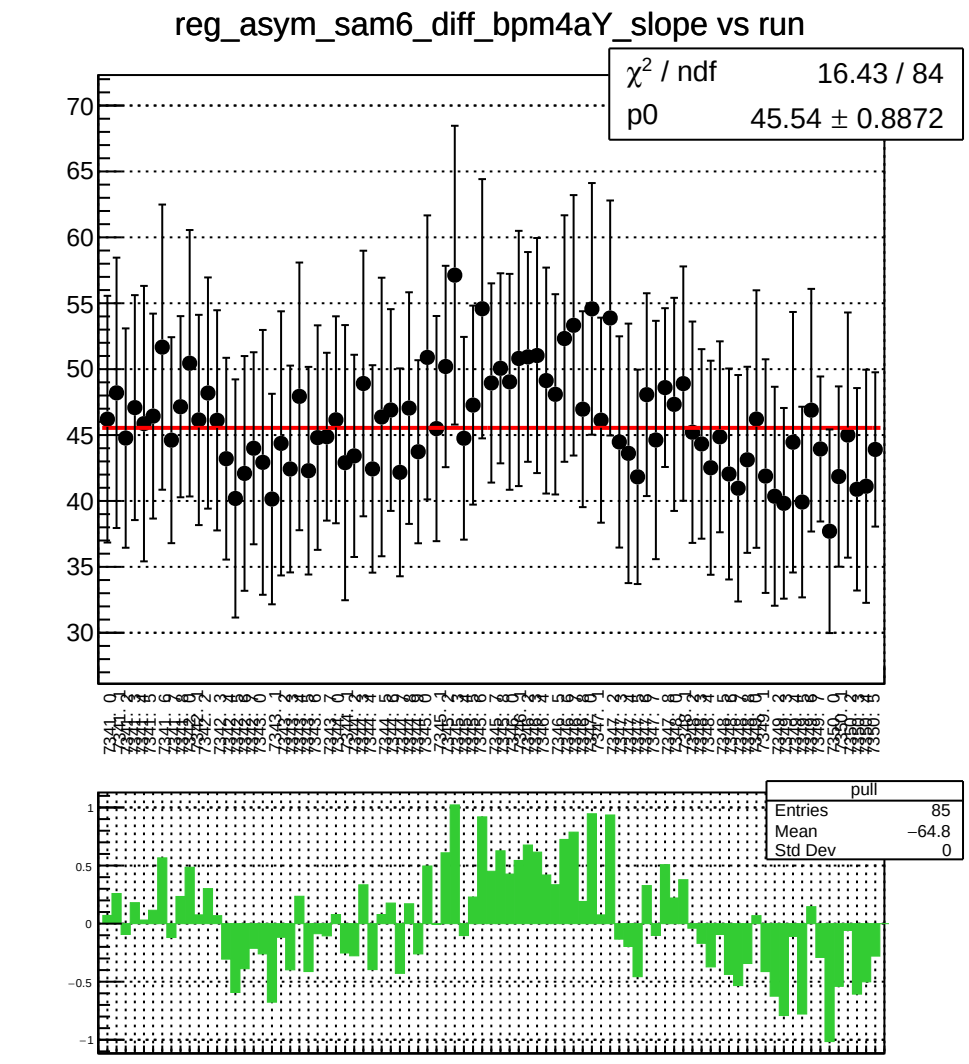

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 41.92 / 84
p0 90 ± 1.037
pull
Entries 85
Mean −126.6
Std Dev 0

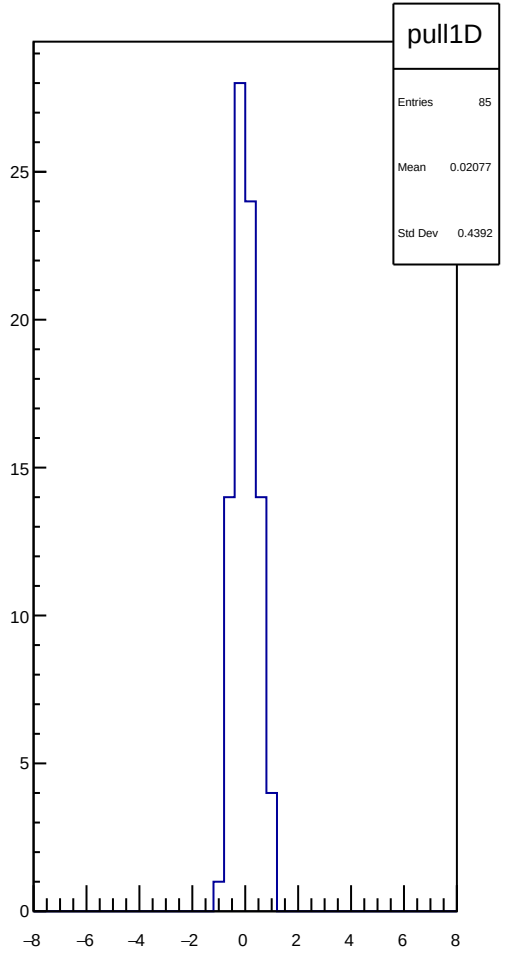

pull1D
Entries 85
Mean 0.05302
Std Dev 0.7003

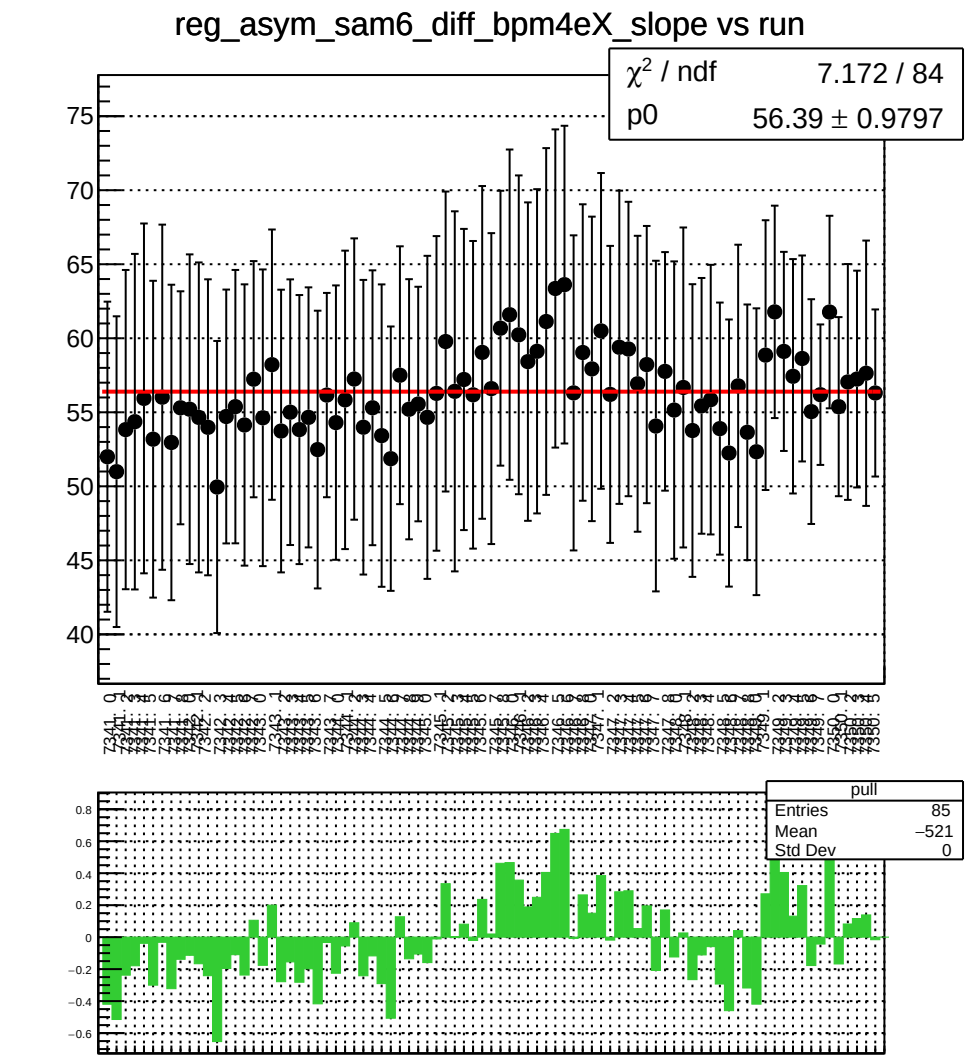

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 16.65 / 84
p0 −1.507 ± 0.0463
pull
Entries 85
Mean 28.1
Std Dev 0
pull1D
Entries 85
Mean −0.01121
Std Dev 0.4424

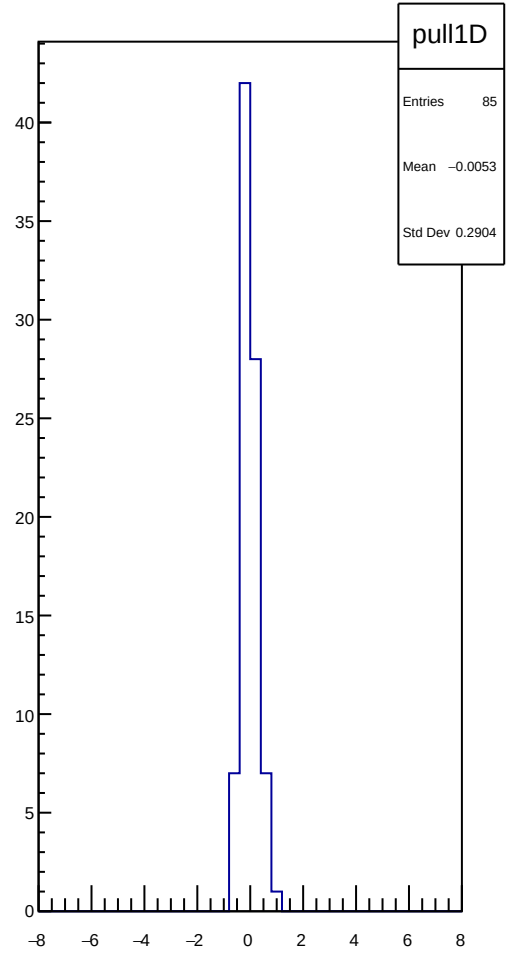

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 7.302 / 84
p0 23.83 ± 0.9958
pull
Entries 85
Mean 92.55
Std Dev 0

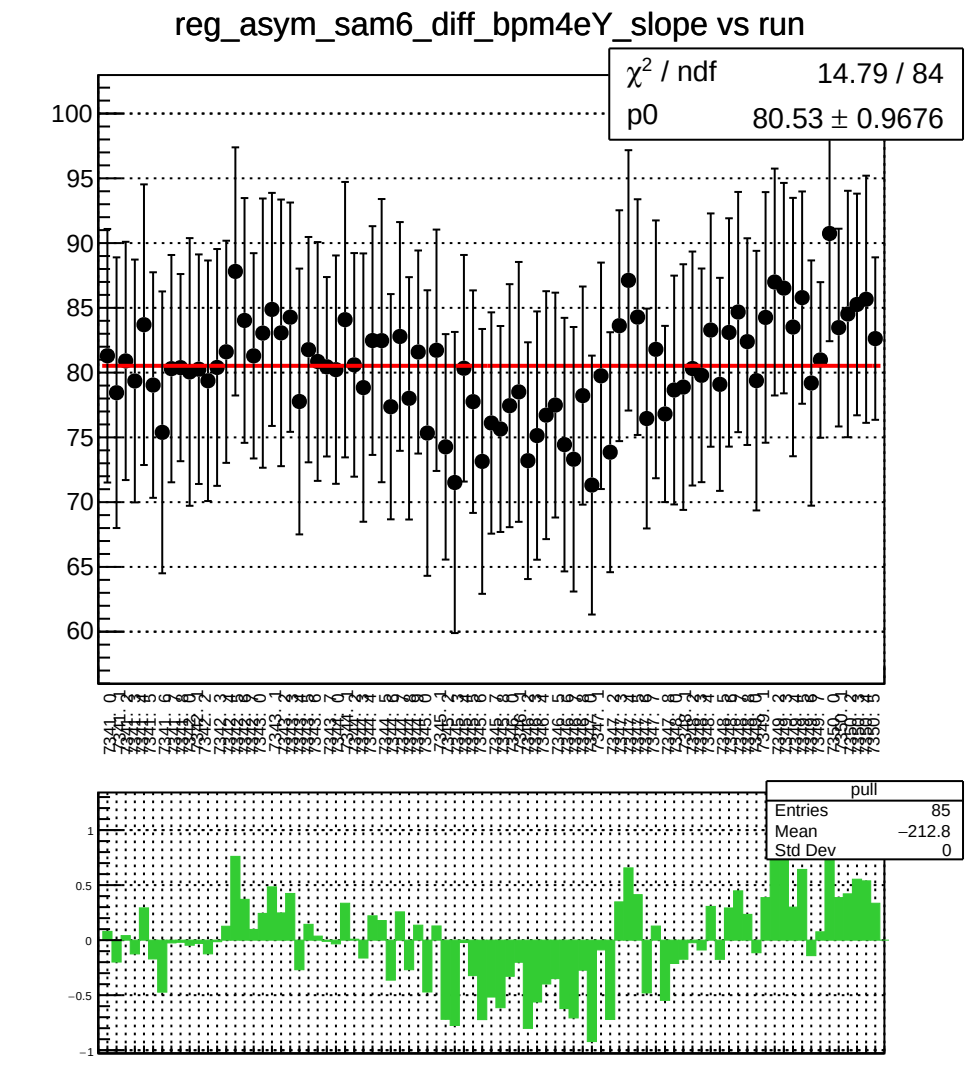

pull1D
Entries 85
Mean −0.01808
Std Dev 0.2925

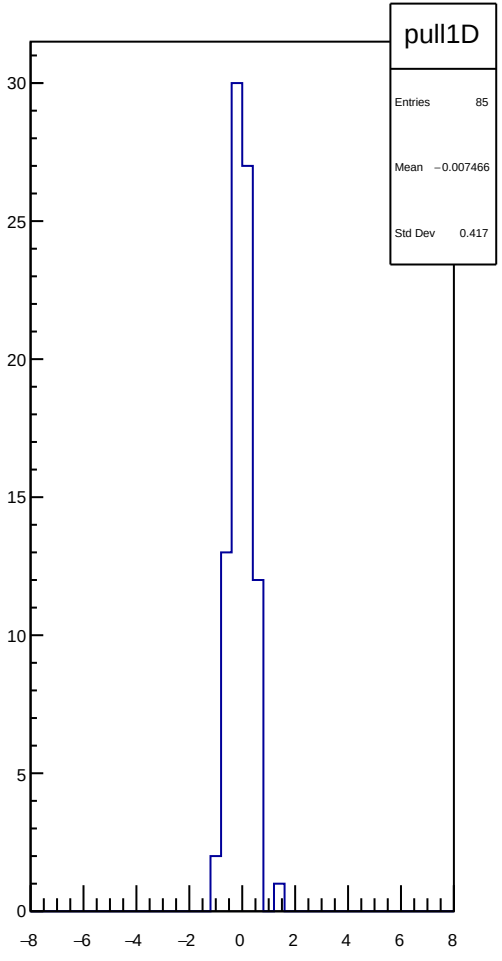

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 16.43 / 84
p0 45.54 ± 0.8872
pull
Entries 85
Mean −64.8
Std Dev 0

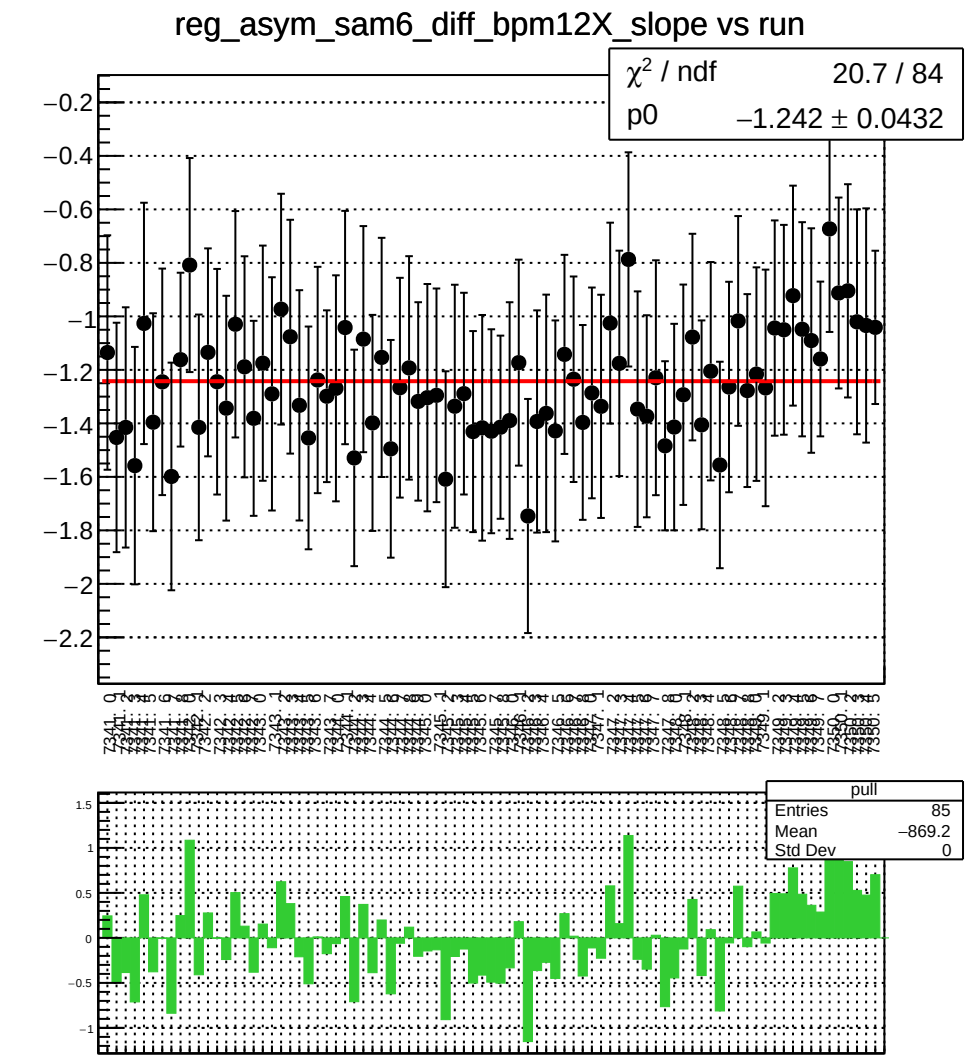

pull1D
Entries 85
Mean 0.02077
Std Dev 0.4392

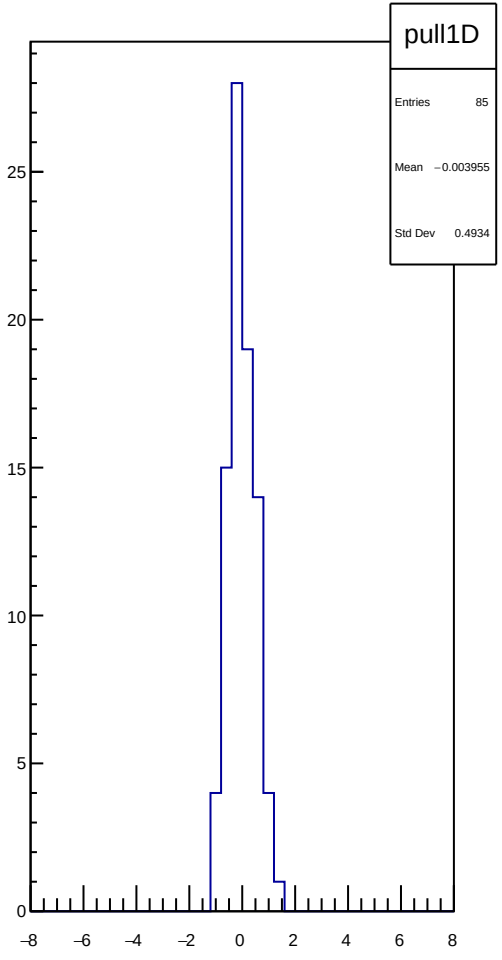

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 7.172 / 84
p0 56.39 ± 0.9797
pull
Entries 85
Mean −521
Std Dev 0

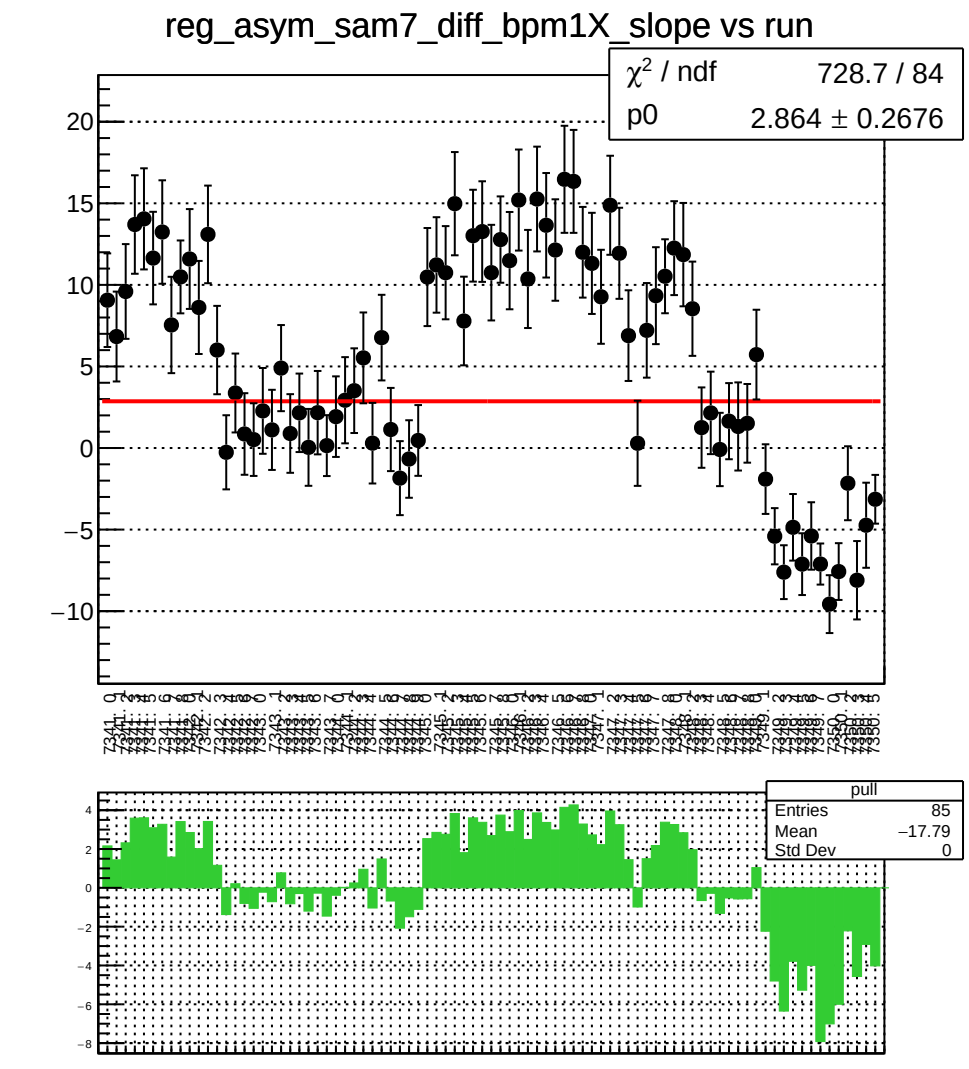

pull1D
Entries 85
Mean −0.0053
Std Dev 0.2904

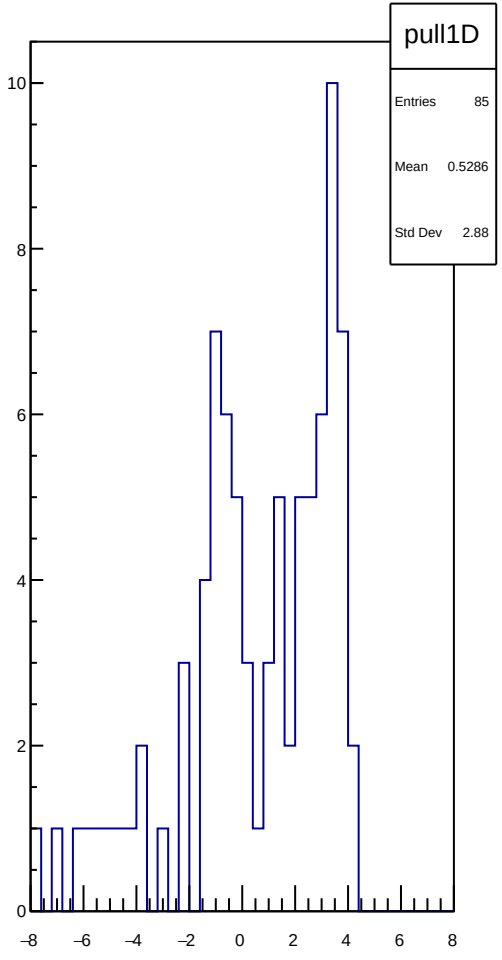

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 14.79 / 84
p0 80.53 ± 0.9676
pull
Entries 85
Mean −212.8
Std Dev 0

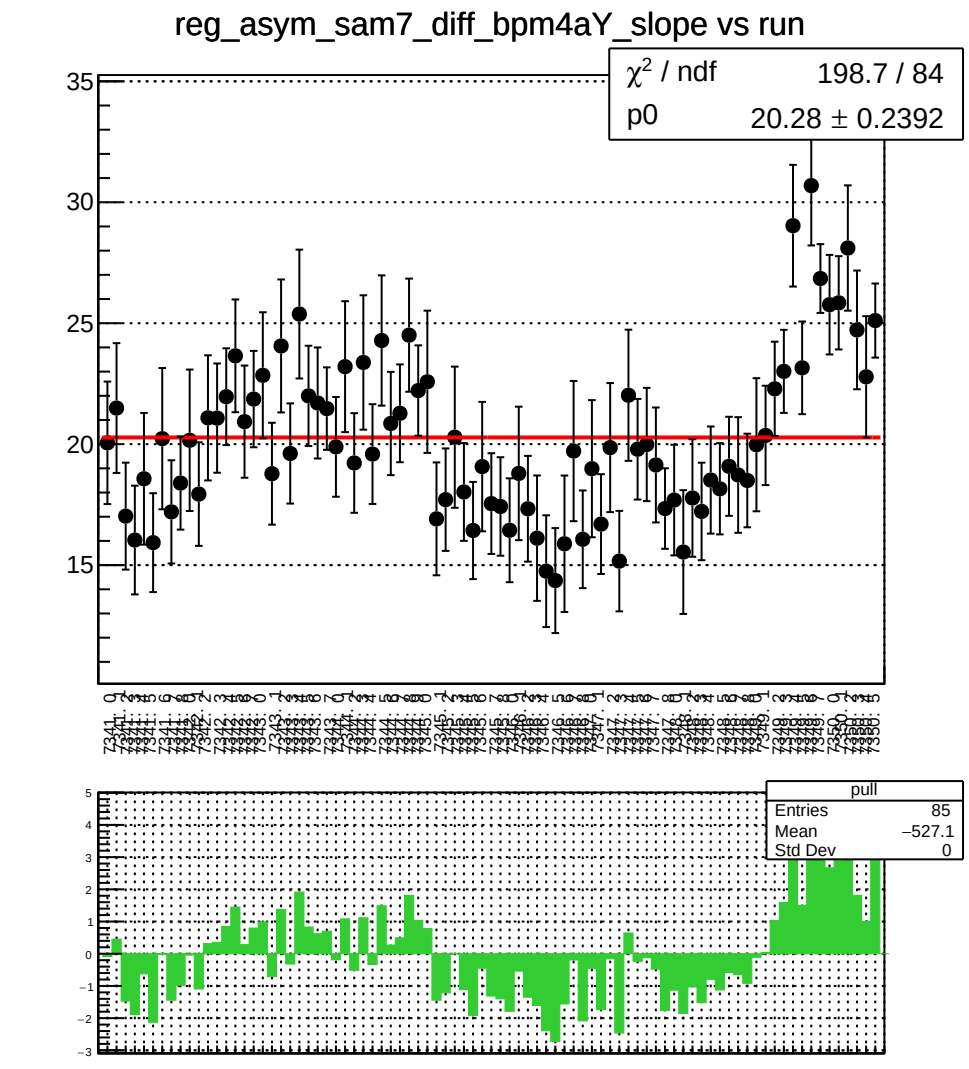

pull1D
Entries 85
Mean −0.007466
Std Dev 0.417

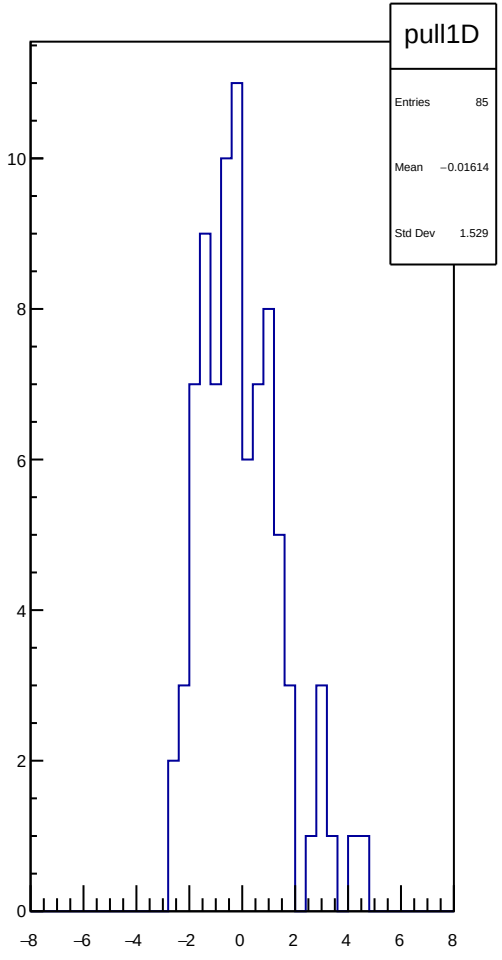

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 20.7 / 84
p0 −1.242 ± 0.0432
pull
Entries 85
Mean −869.2
Std Dev 0

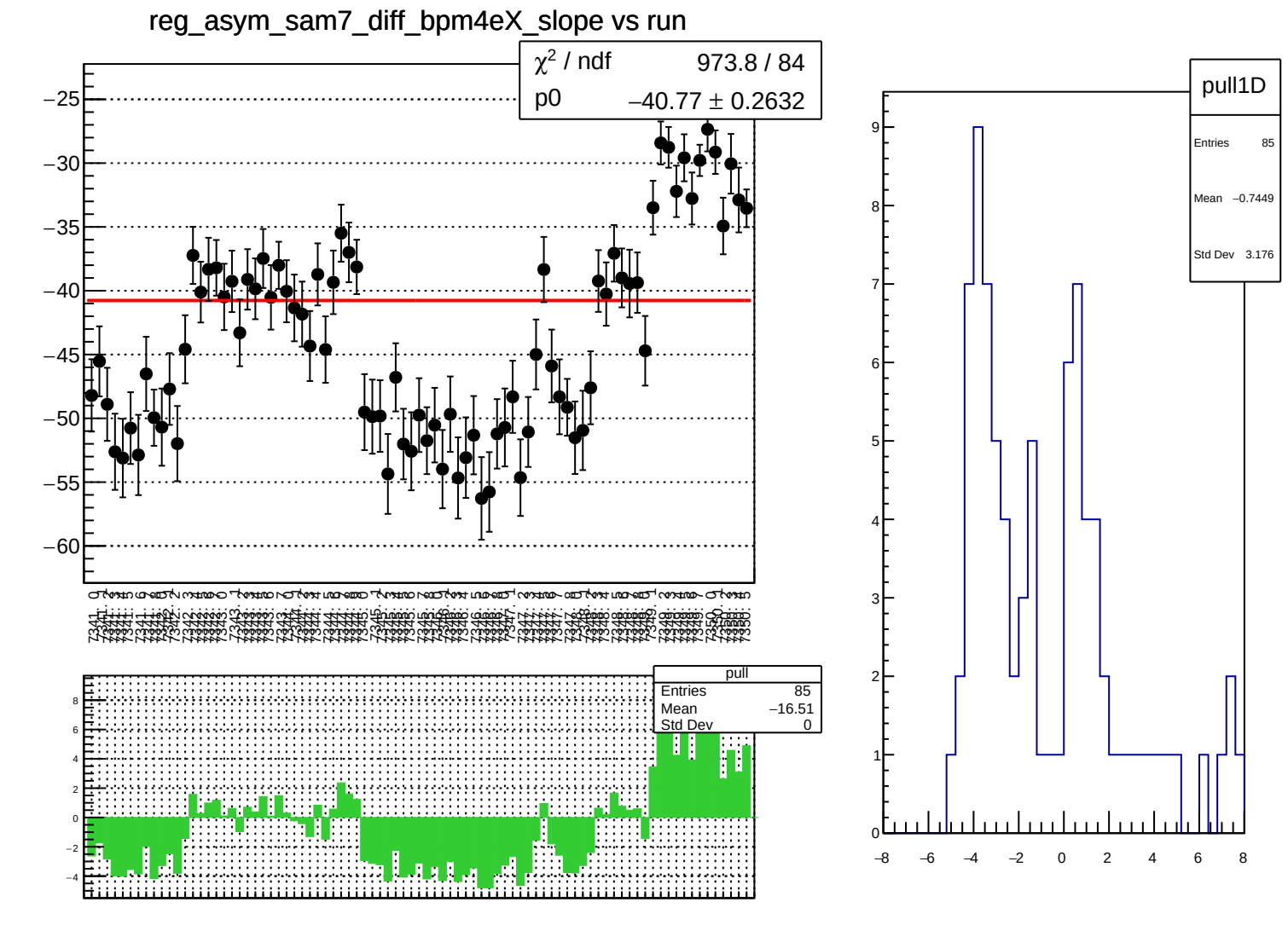

pull1D
Entries 85
Mean −0.003955
Std Dev 0.4934

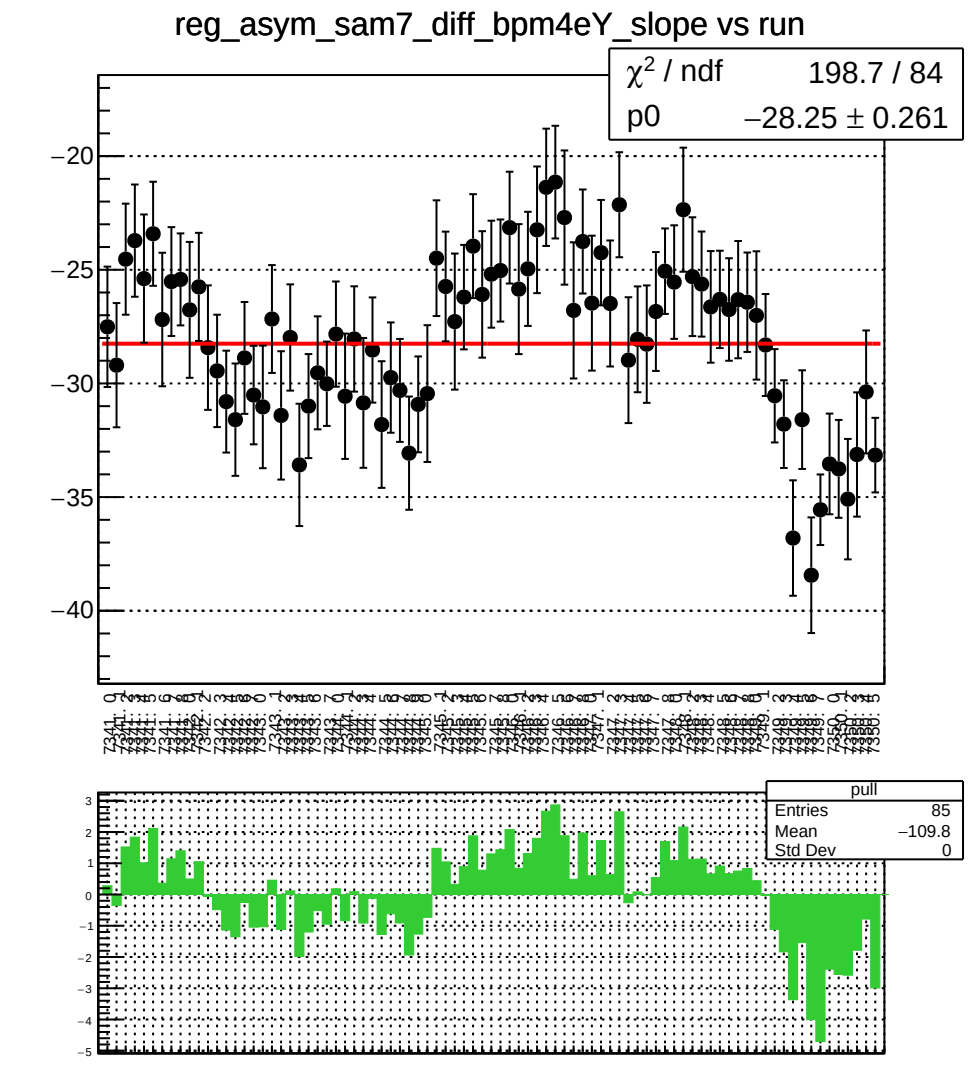

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 728.7 / 84
p0 2.864 ± 0.2676
pull
Entries 85
Mean −17.79
Std Dev 0

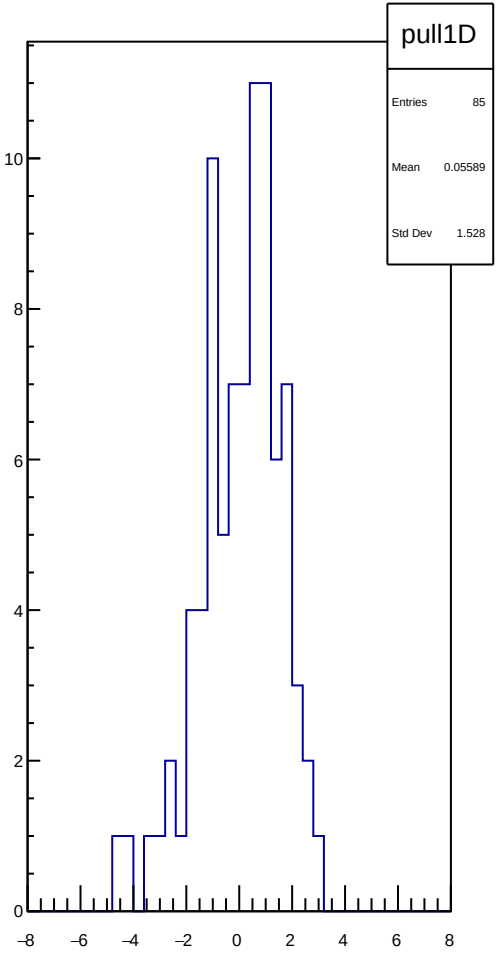

pull1D
Entries 85
Mean 0.5286
Std Dev 2.88

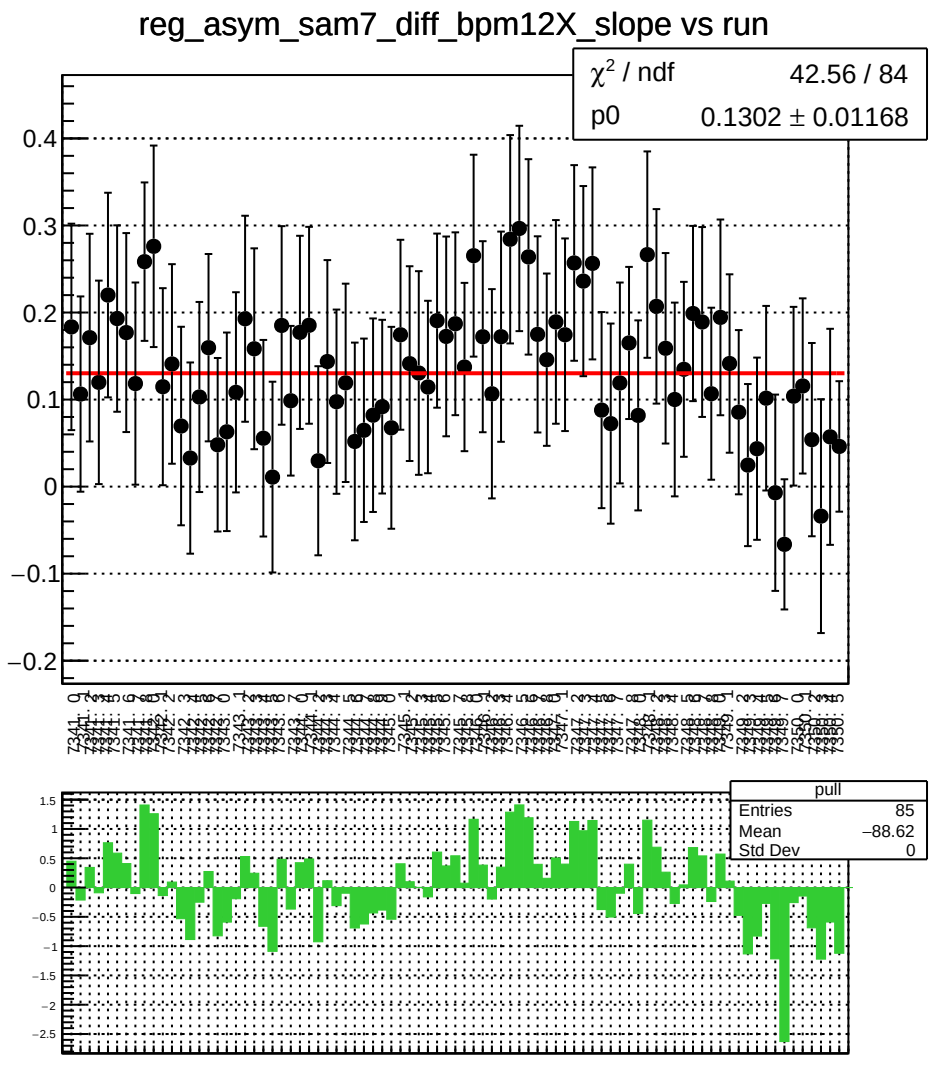

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 198.7 / 84
p0 20.28 ± 0.2392
pull
Entries 85
Mean −527.1
Std Dev 0

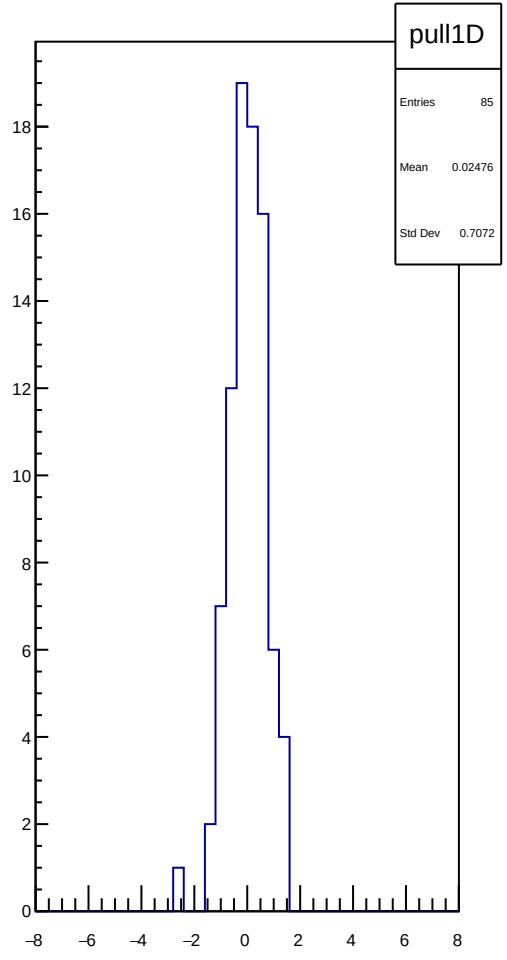

pull1D
Entries 85
Mean −0.01614
Std Dev 1.529

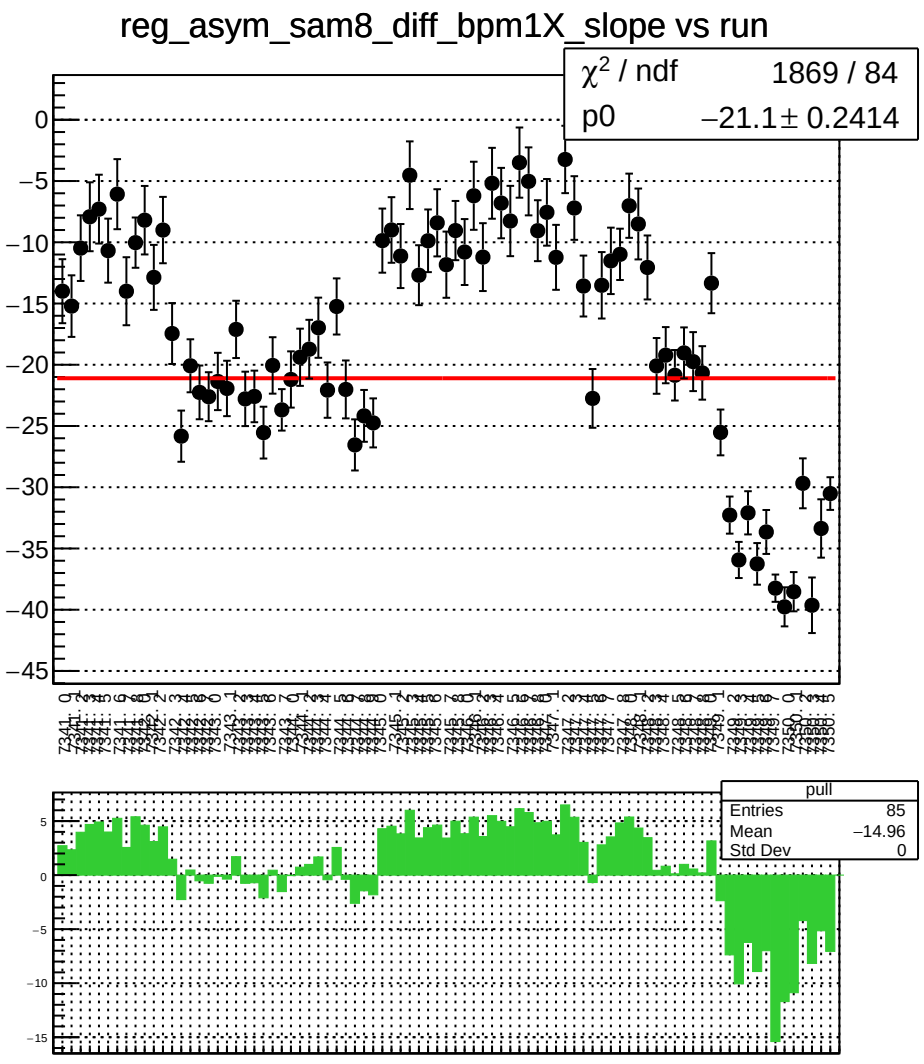

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 973.8 / 84
p0 −40.77 ± 0.2632
pull
Entries 85
Mean −16.51
Std Dev 0
pull1D
Entries 85
Mean −0.7449
Std Dev 3.176

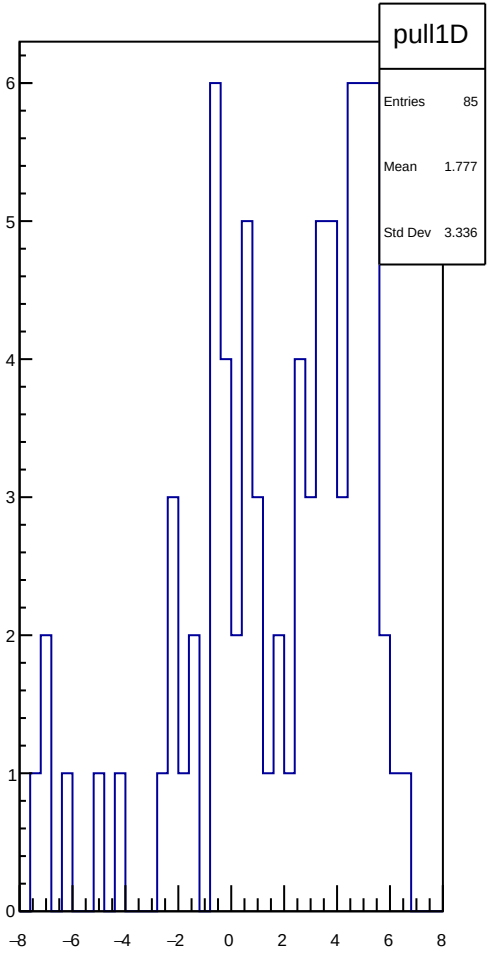

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 198.7 / 84
p0 −28.25 ± 0.261
pull
Entries 85
Mean −109.8
Std Dev 0

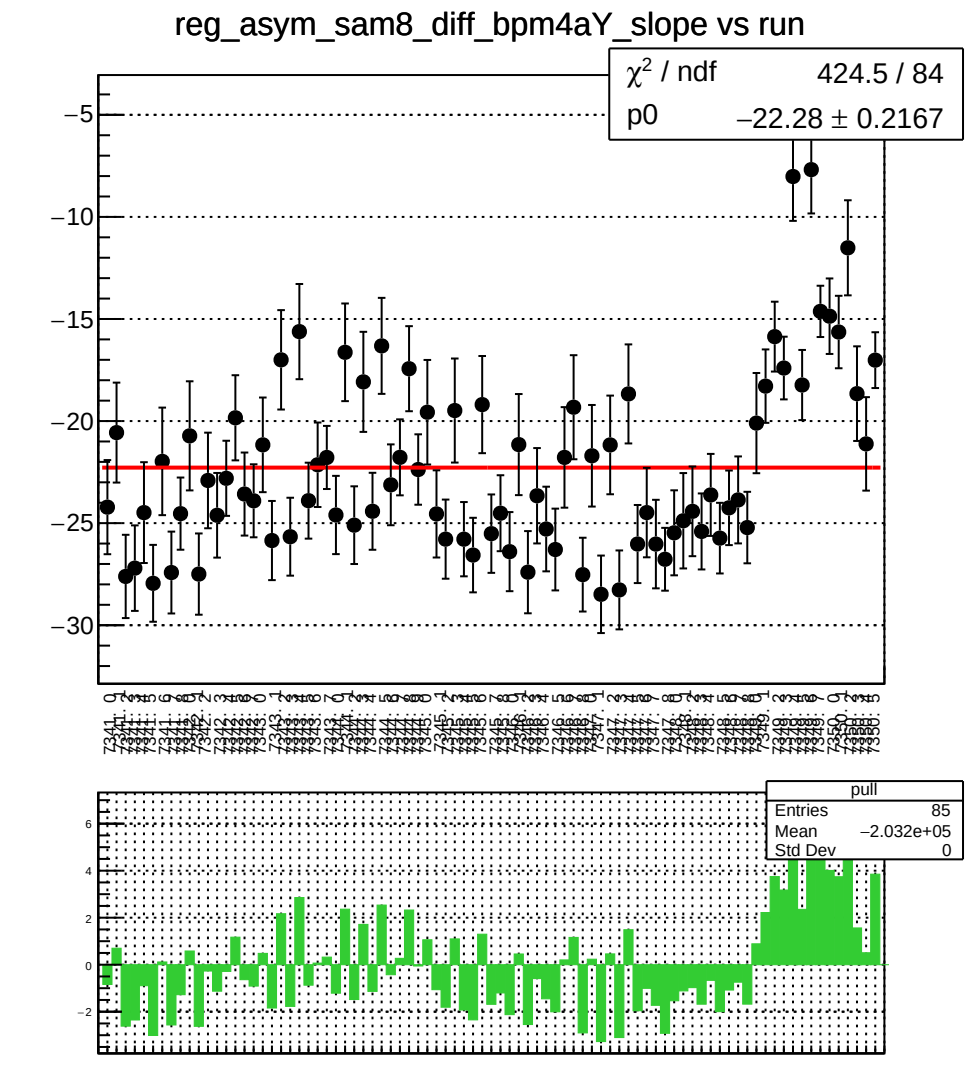

pull1D
Entries 85
Mean 0.05589
Std Dev 1.528

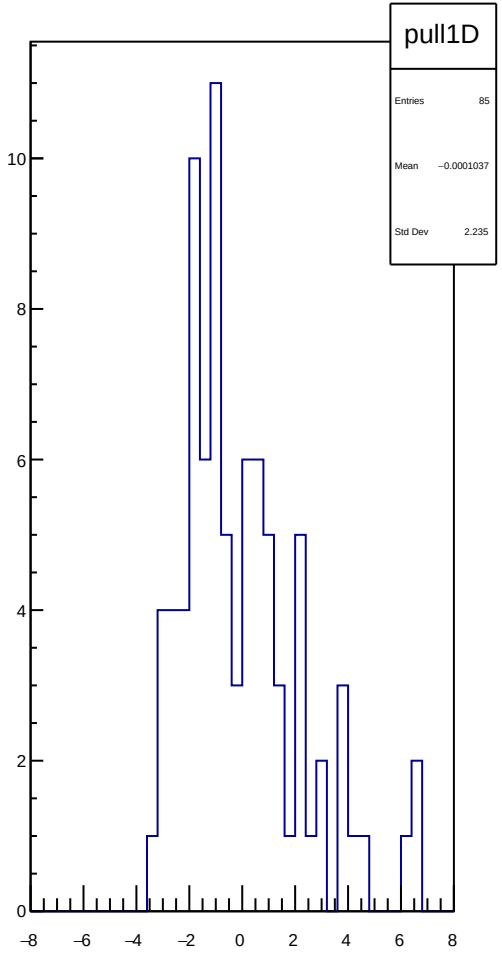

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 42.56 / 84
p0 0.1302 ± 0.01168
pull
Entries 85
Mean −88.62
Std Dev 0

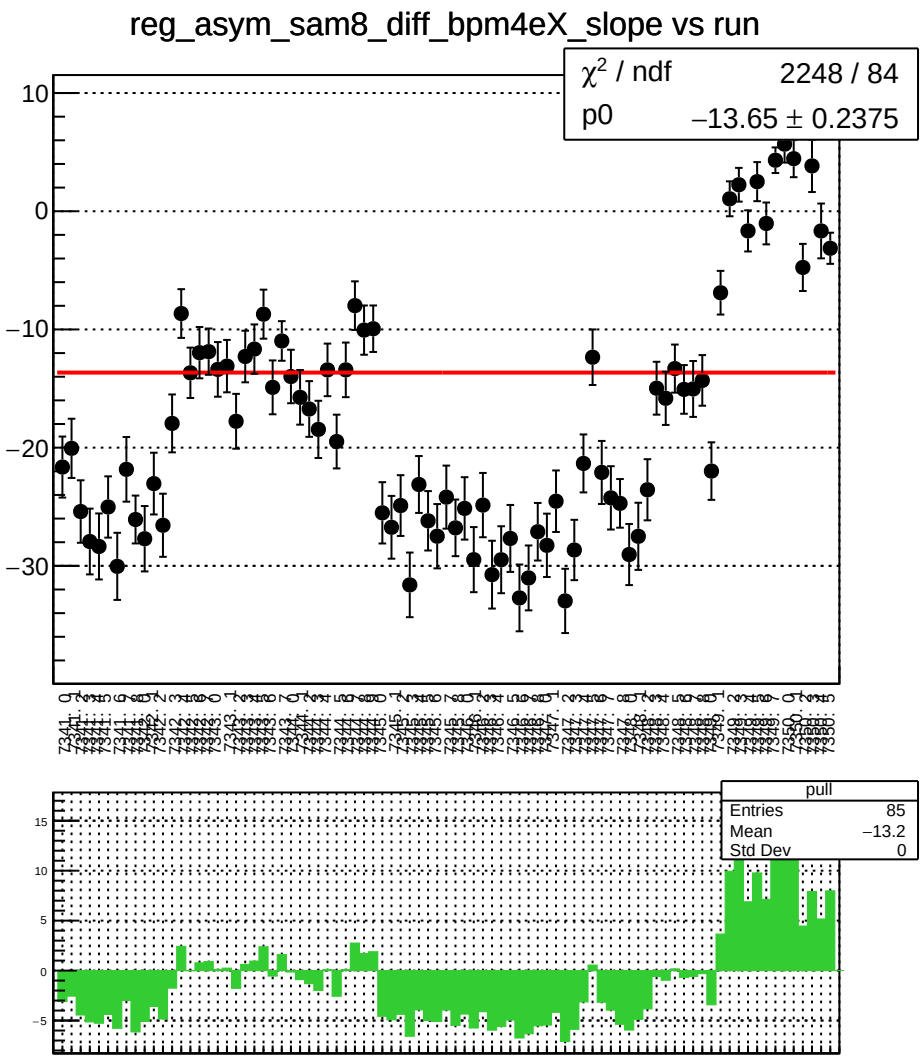

pull1D
Entries 85
Mean 0.02476
Std Dev 0.7072

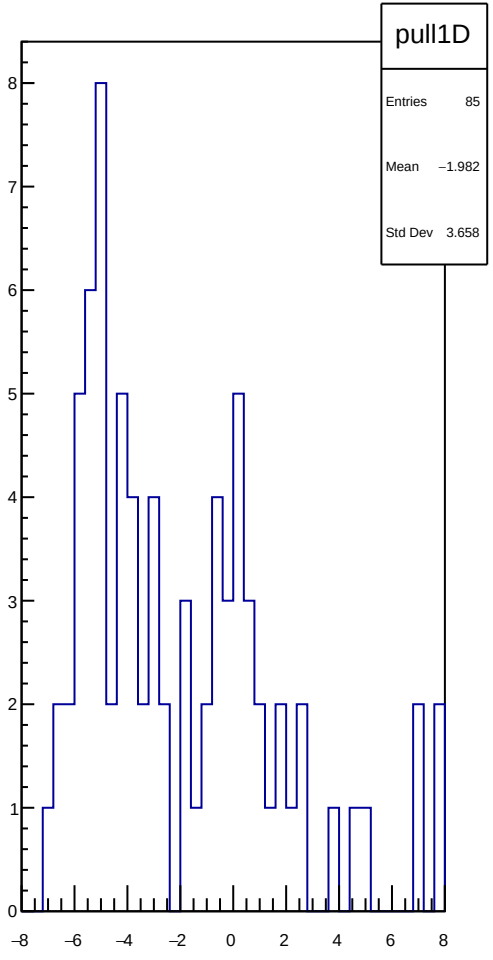

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 1869 / 84
p0 −21.1 ± 0.2414
pull
Entries 85
Mean −14.96
Std Dev 0

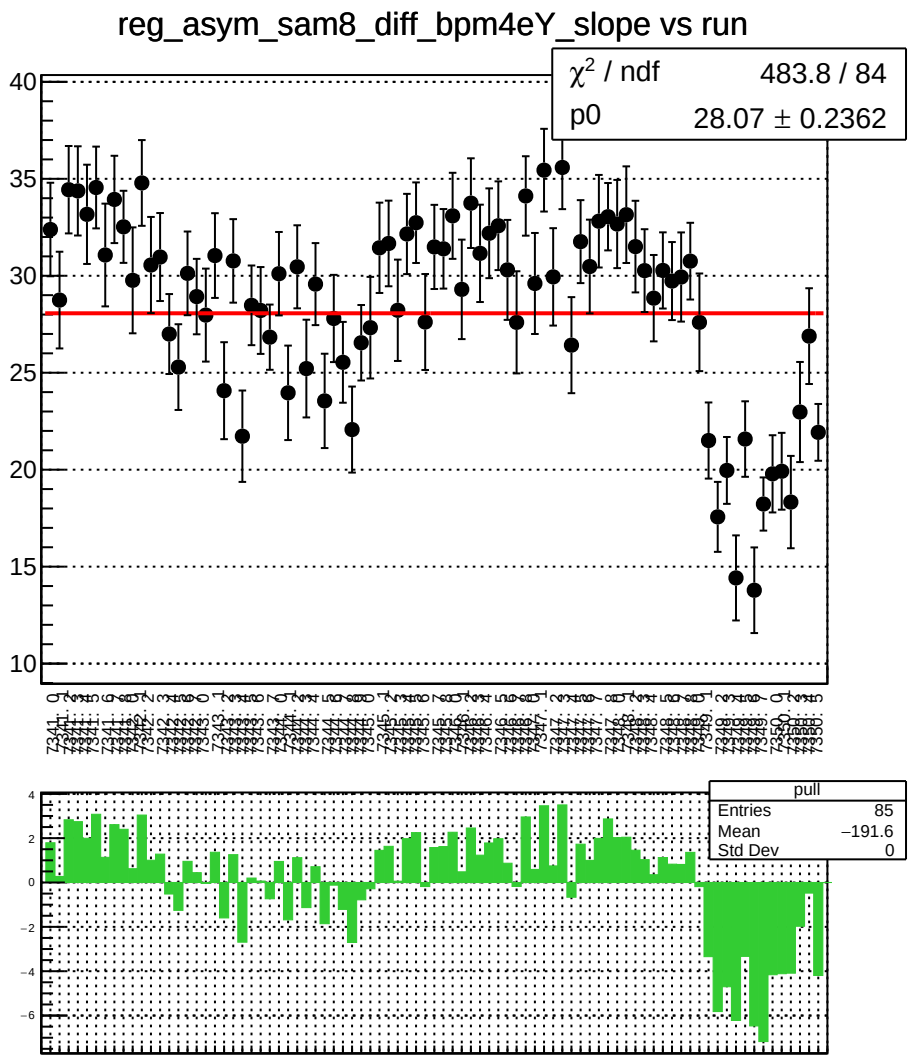

pull1D
Entries 85
Mean 1.777
Std Dev 3.336

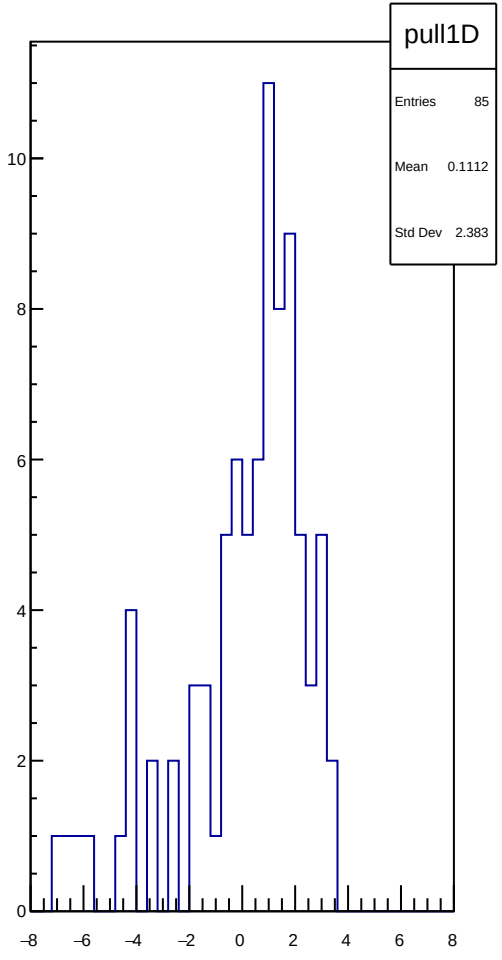

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 424.5 / 84
p0 −22.28 ± 0.2167
pull
Entries 85
Mean −2.032e+05
Std Dev 0

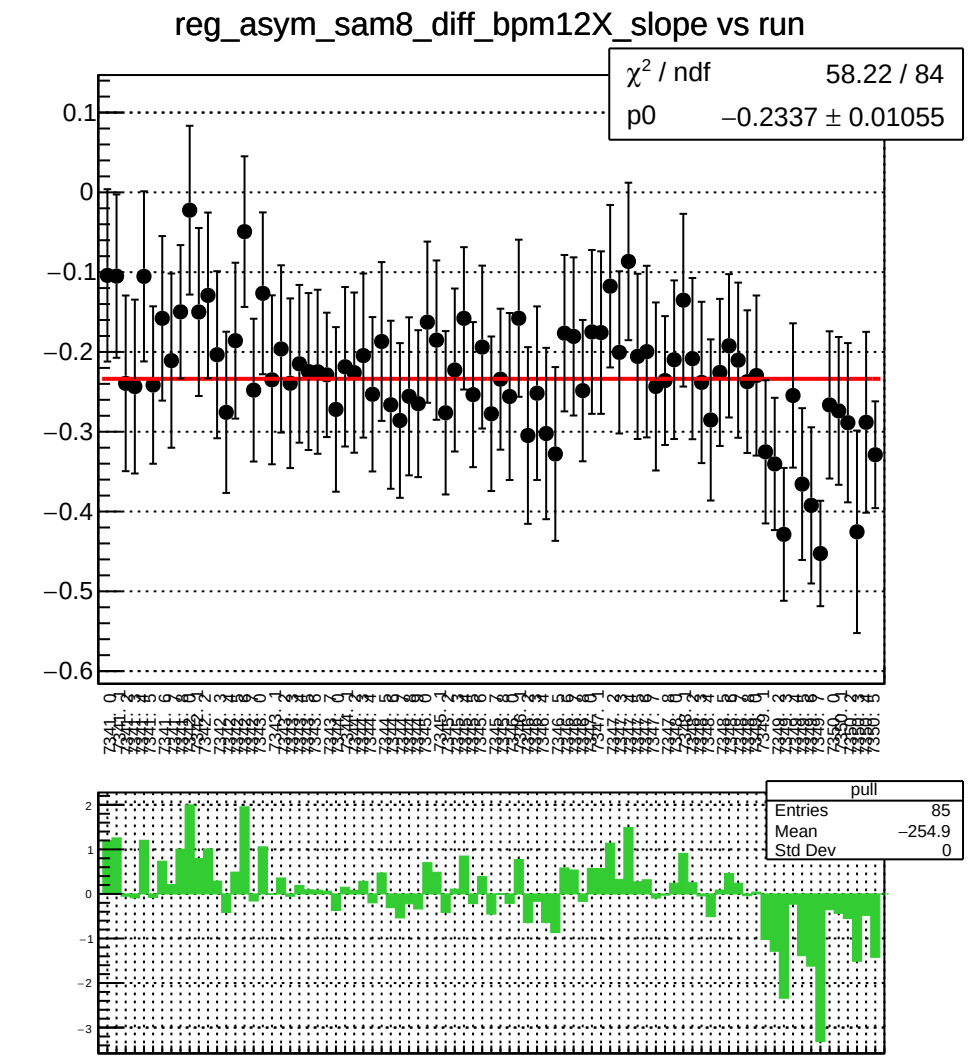

pull1D
Entries 85
Mean −0.0001037
Std Dev 2.235

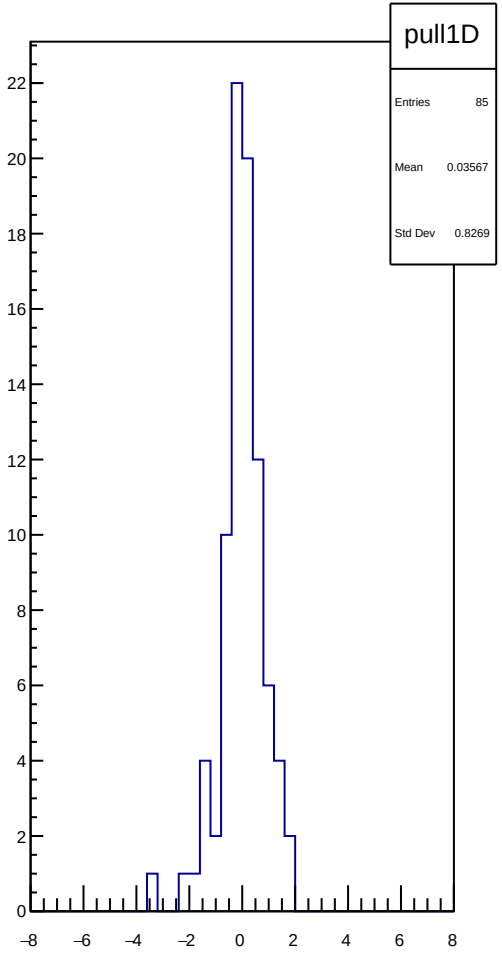

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 2248 / 84
p0 −13.65 ± 0.2375
pull
Entries 85
Mean −13.2
Std Dev 0

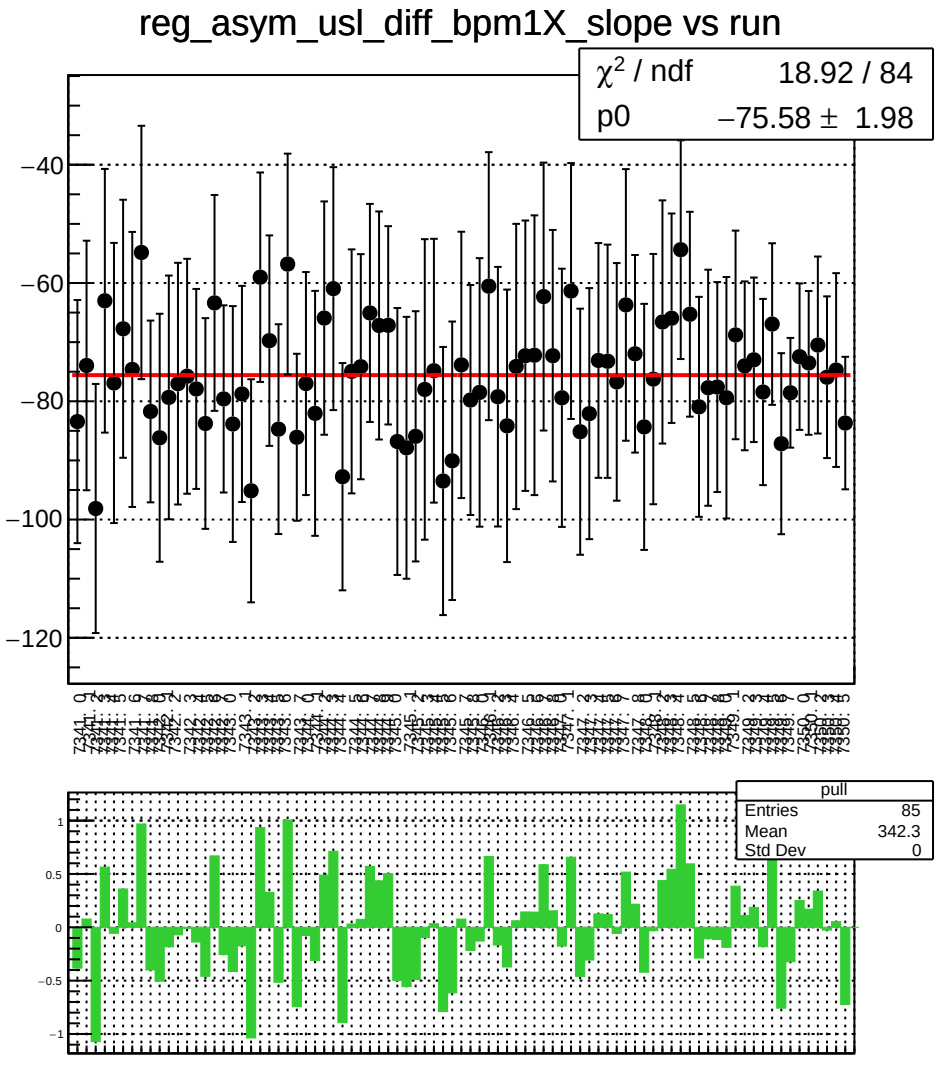

pull1D
Entries 85
Mean −1.982
Std Dev 3.658

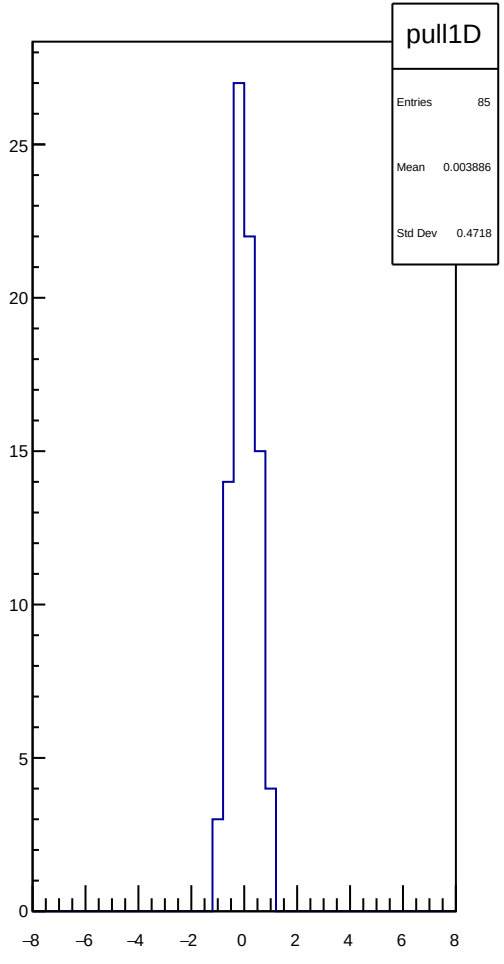

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 483.8 / 84
p0 28.07 ± 0.2362
pull
Entries 85
Mean −191.6
Std Dev 0

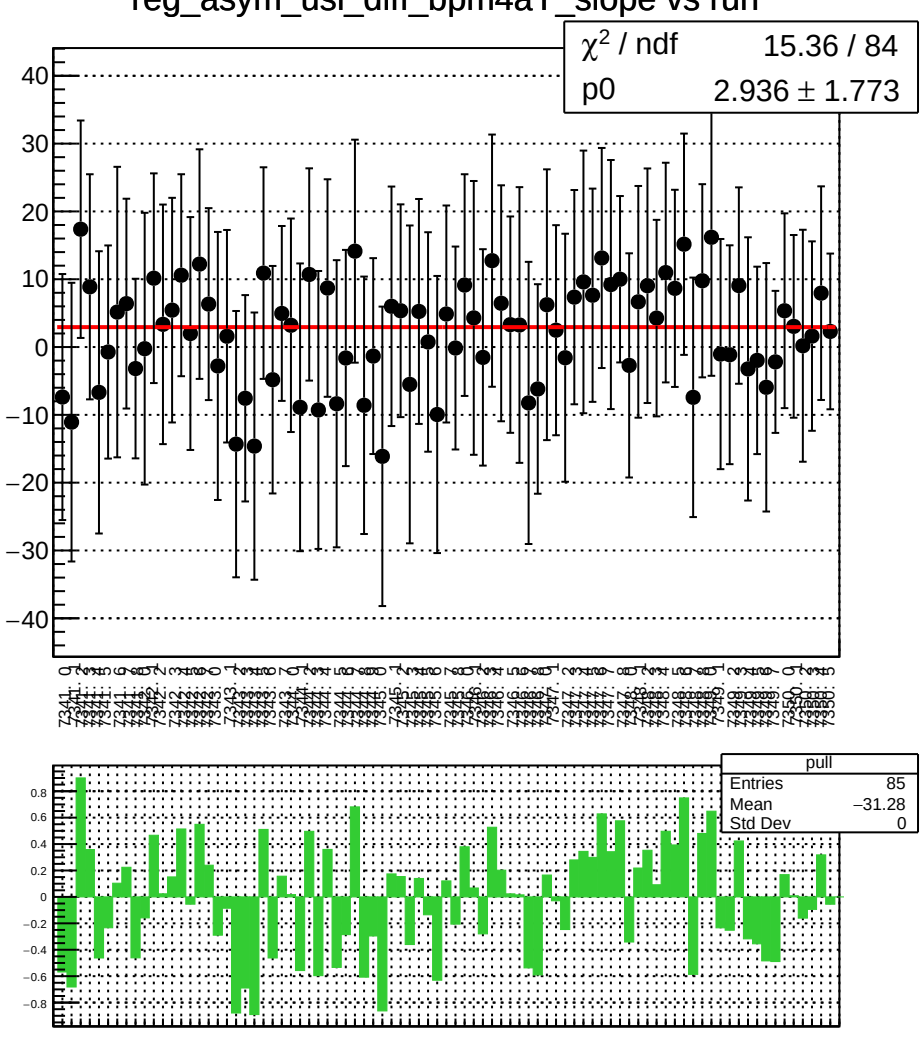

pull1D
Entries 85
Mean 0.1112
Std Dev 2.383

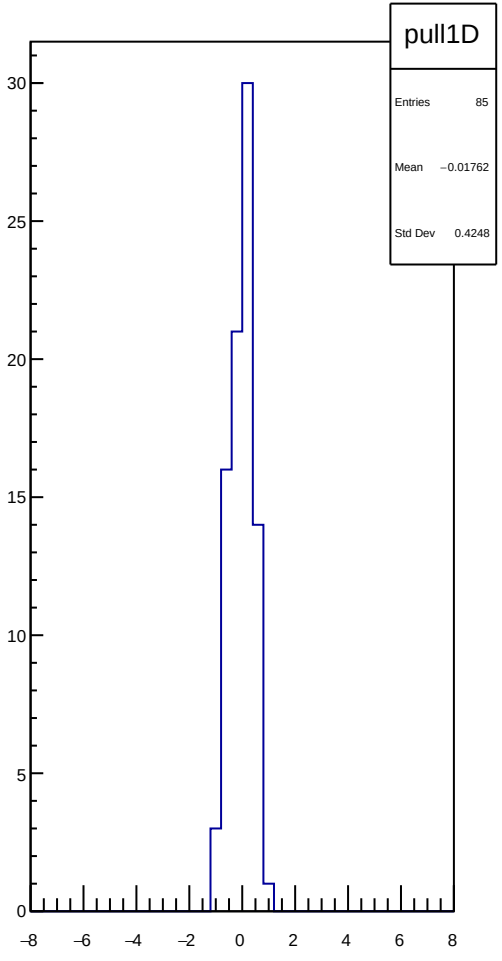

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 58.22 / 84
p0 −0.2337 ± 0.01055
pull
Entries 85
Mean −254.9
Std Dev 0

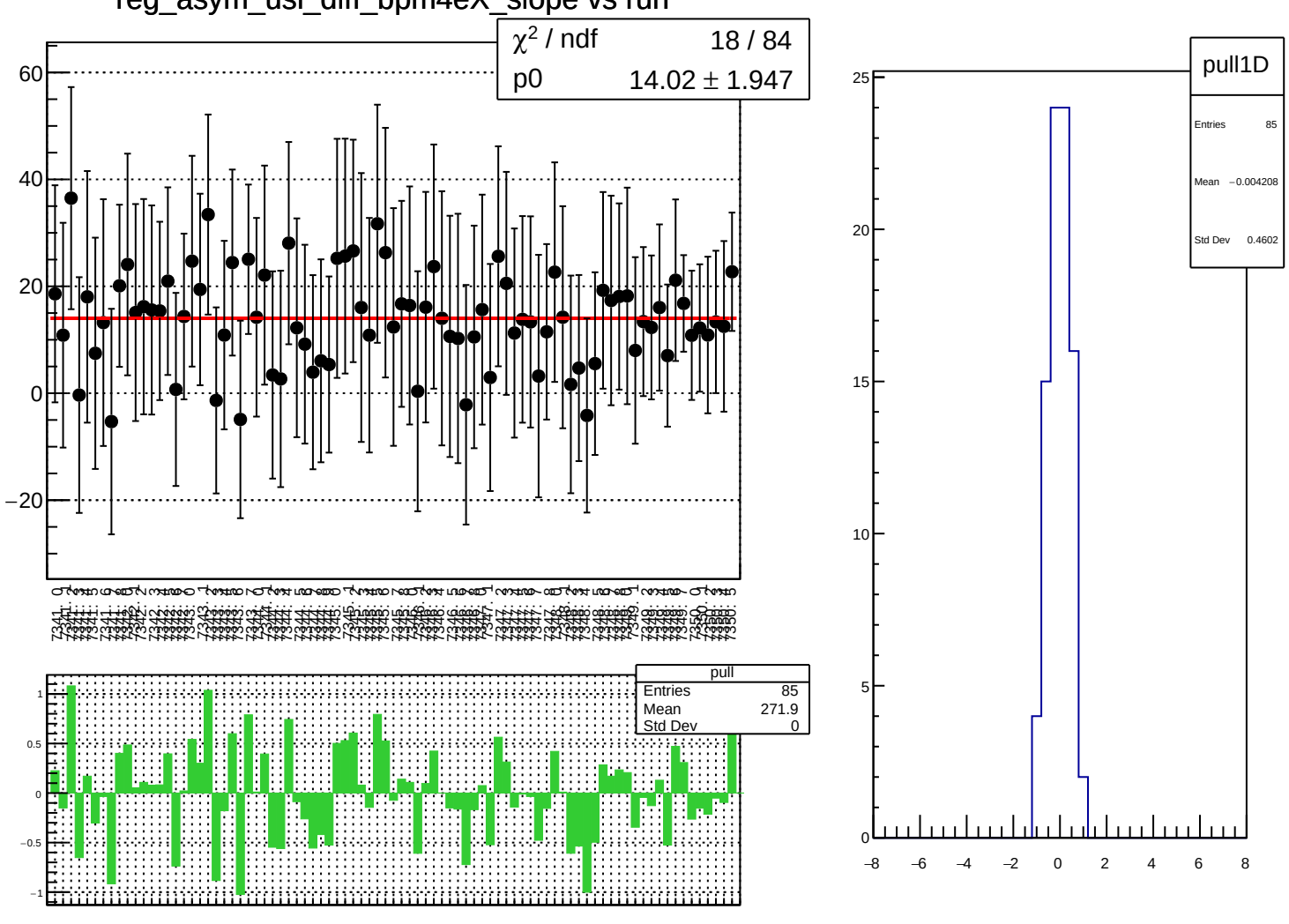

pull1D
Entries 85
Mean 0.03567
Std Dev 0.8269

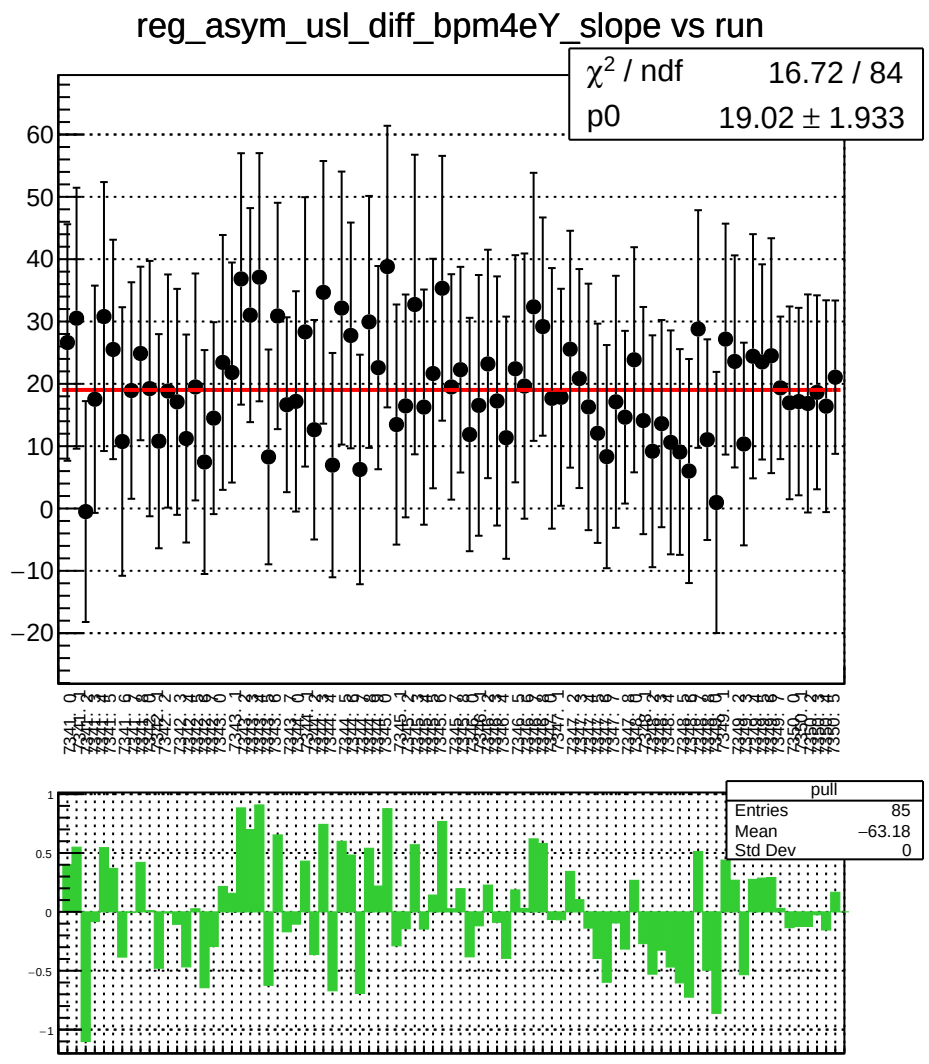

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 18.92 / 84
p0 −75.58 ± 1.98
−40
−60
−80
−100
−120
pull
Entries 85
Mean 342.3
Std Dev 0
1
0.5
0
−0.5
−1

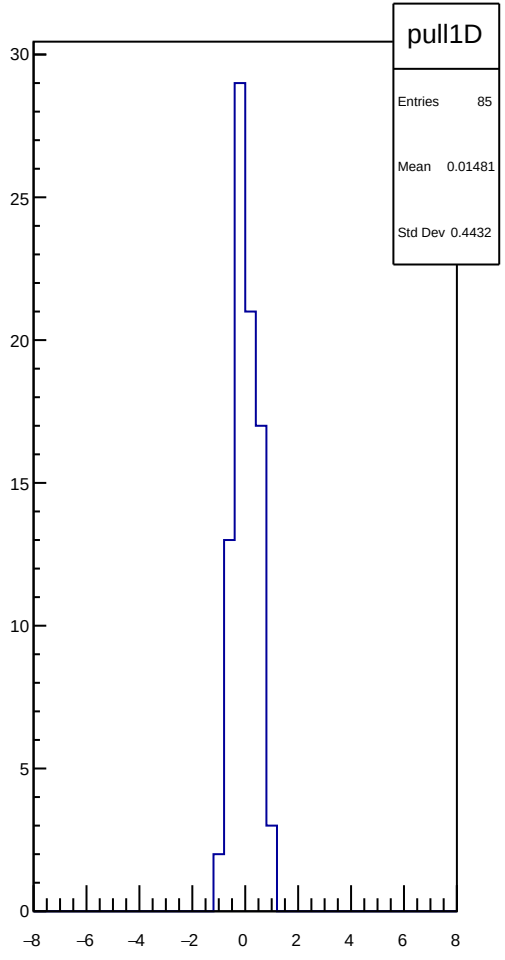

pull1D
Entries 85
Mean 0.003886
Std Dev 0.4718
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

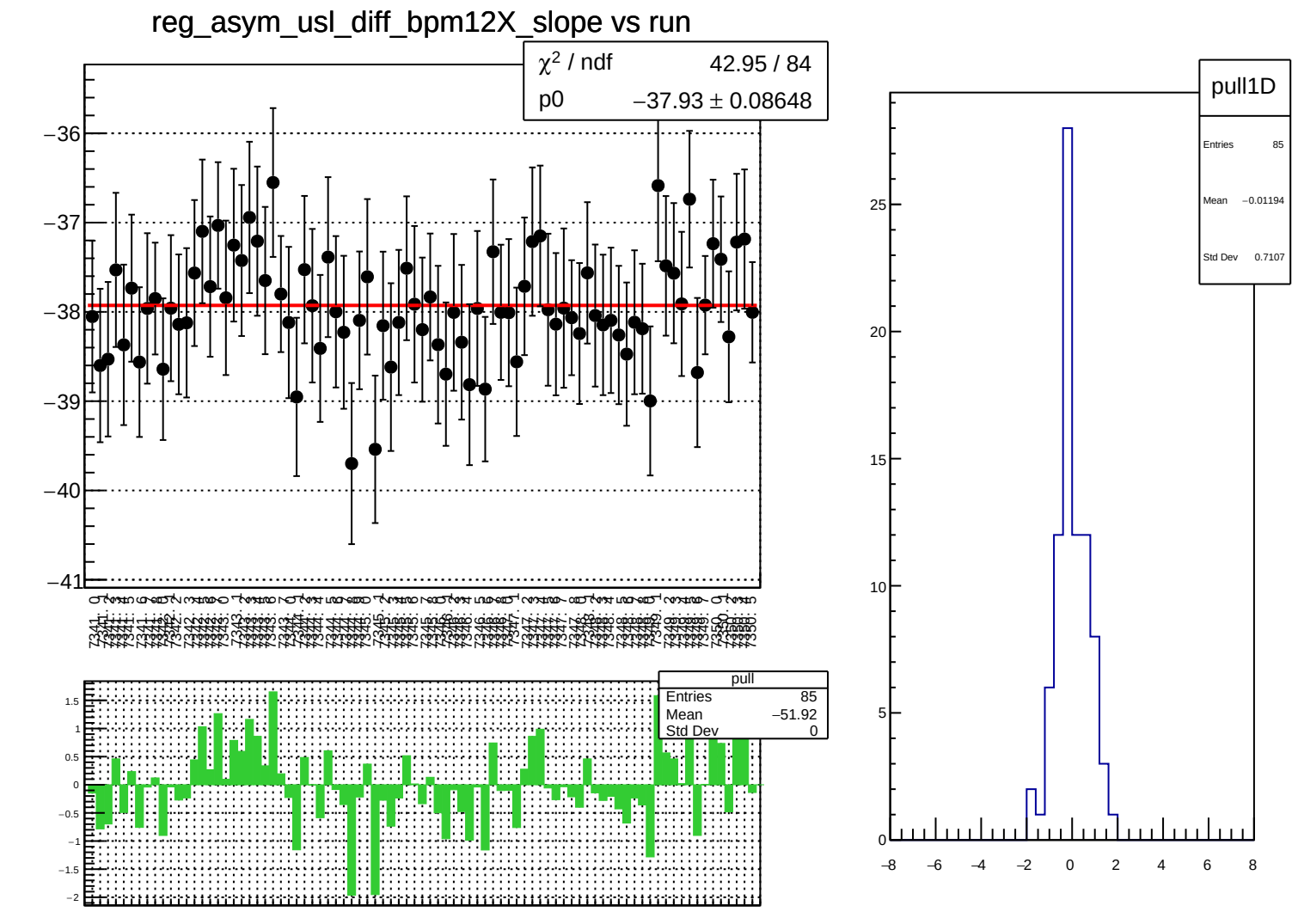

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 15.36 / 84
p0 2.936 ± 1.773
pull
Entries 85
Mean −31.28
Std Dev 0

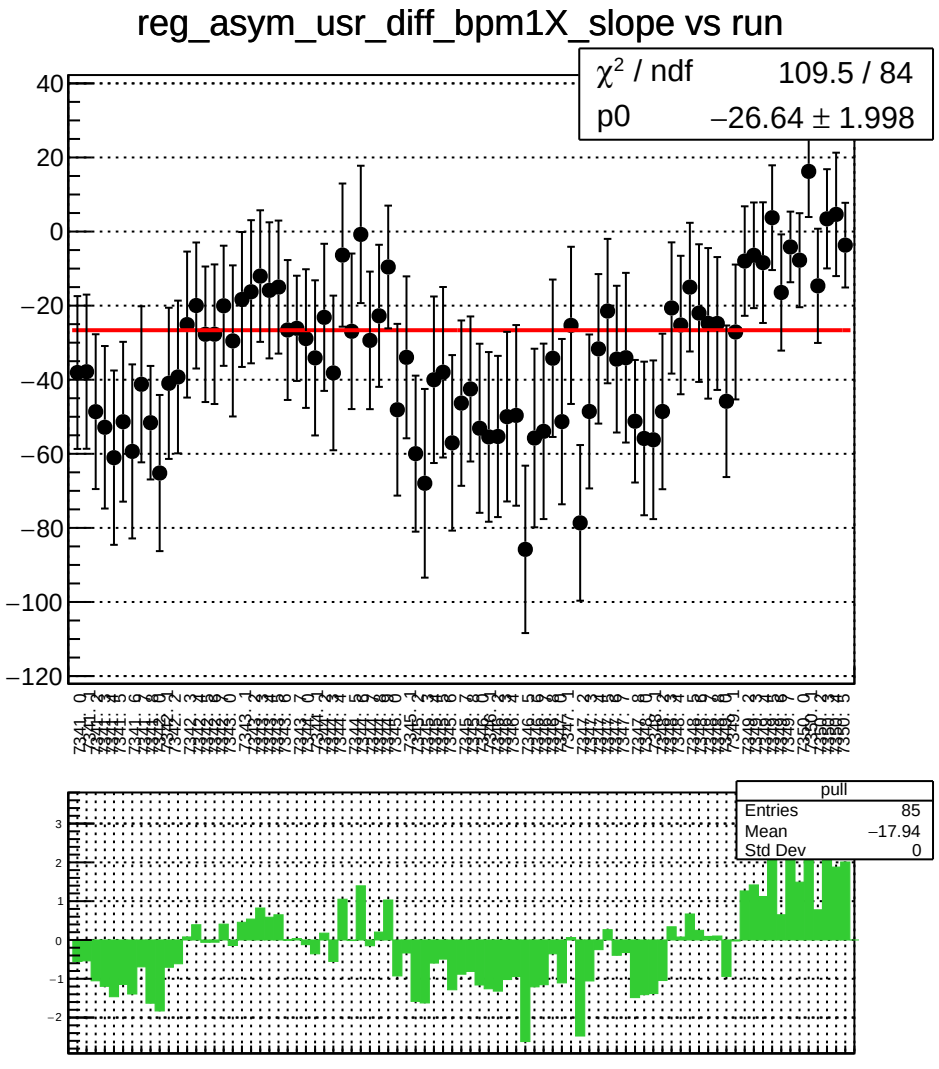

pull1D
Entries 85
Mean −0.01762
Std Dev 0.4248

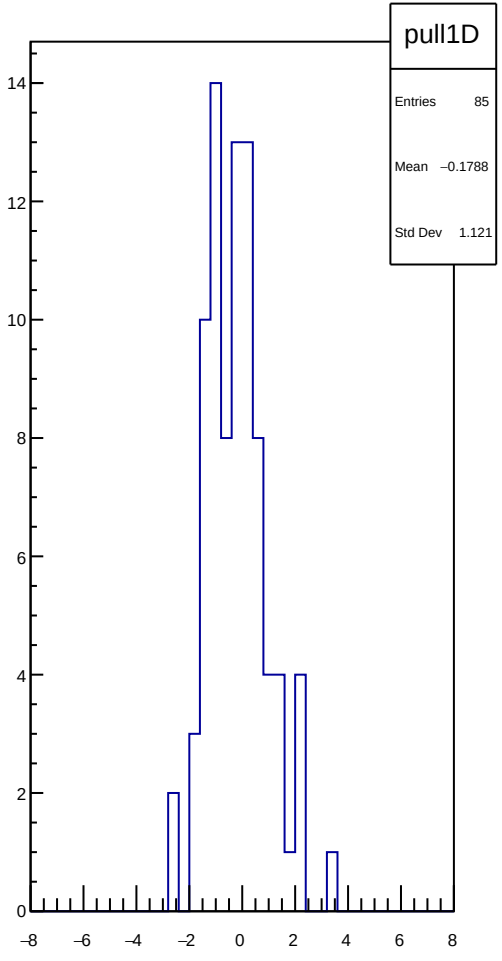

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 18 / 84
p0 14.02 ± 1.947
pull
Entries 85
Mean 271.9
Std Dev 0
pull1D
Entries 85
Mean −0.004208
Std Dev 0.4602

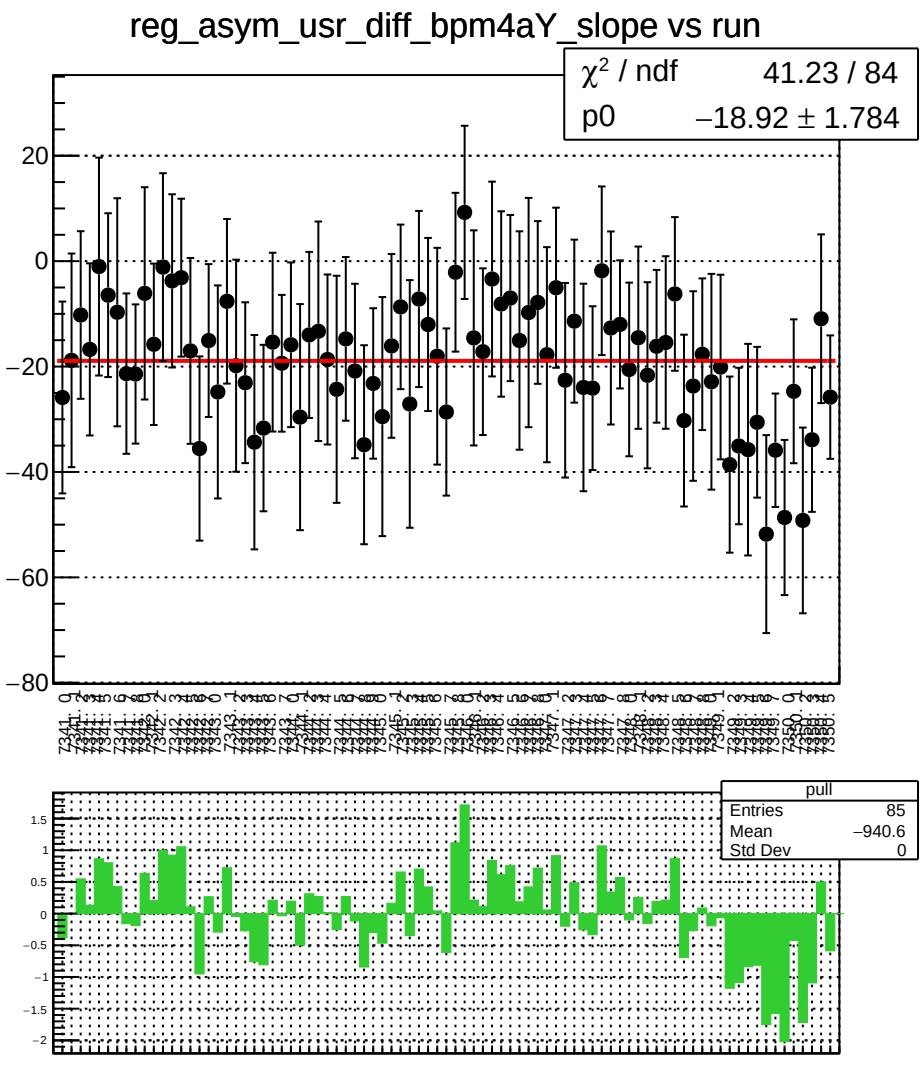

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 16.72 / 84
p0 19.02 ± 1.933
pull
Entries 85
Mean −63.18
Std Dev 0

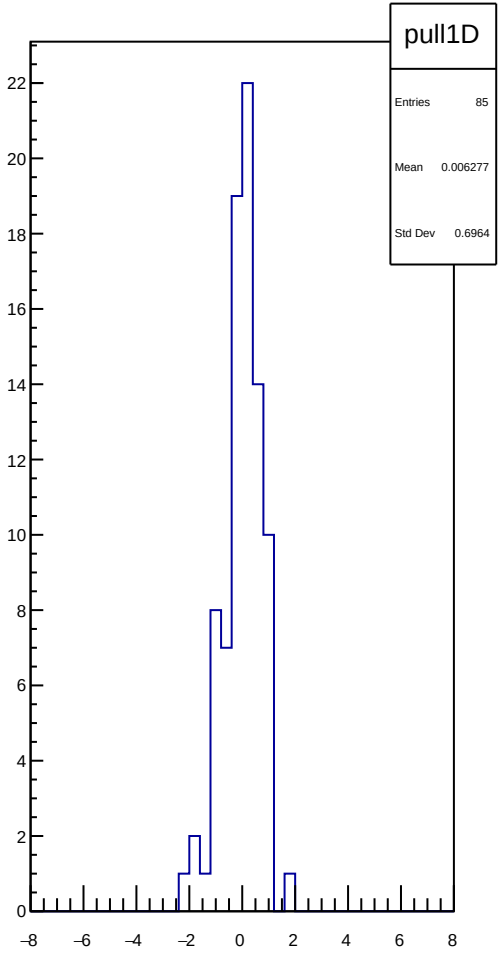

pull1D
Entries 85
Mean 0.01481
Std Dev 0.4432

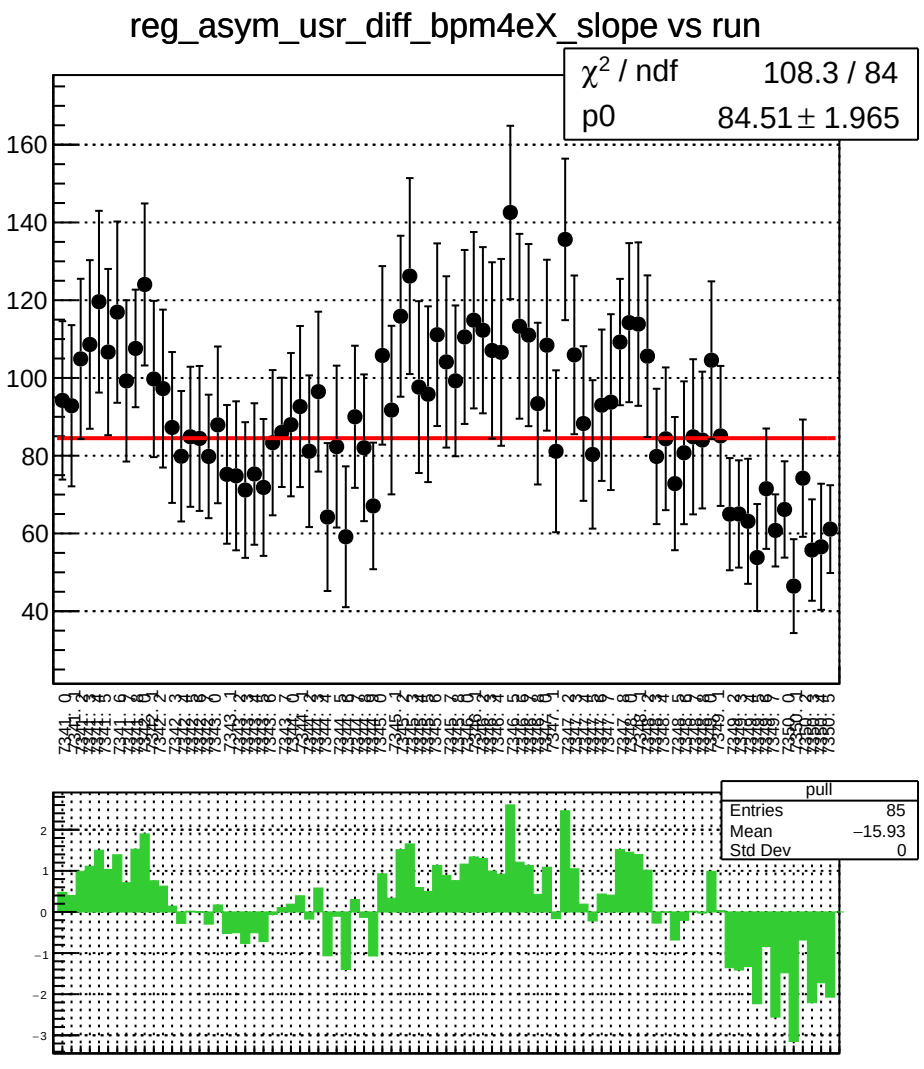

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 42.95 / 84
p0 −37.93 ± 0.08648
pull
Entries 85
Mean −51.92
Std Dev 0
pull1D
Entries 85
Mean −0.01194
Std Dev 0.7107

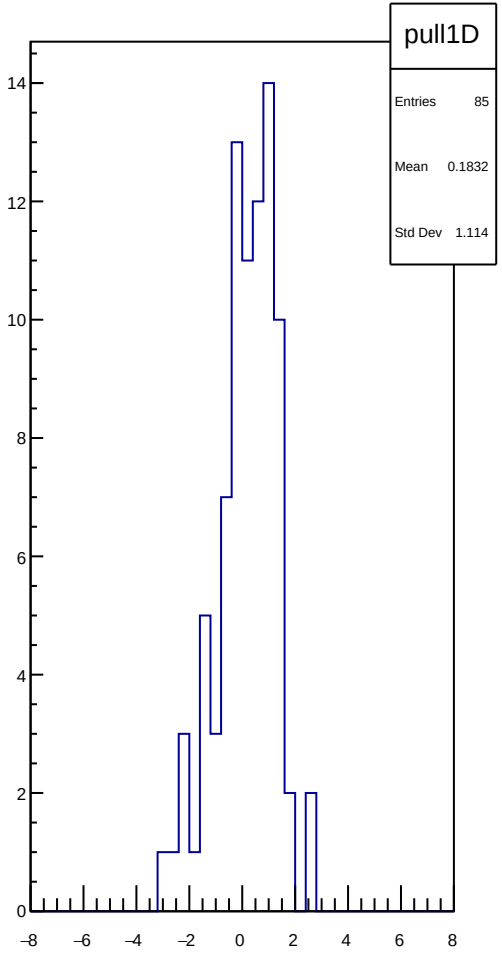

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 109.5 / 84
p0 −26.64 ± 1.998
pull
Entries 85
Mean −17.94
Std Dev 0

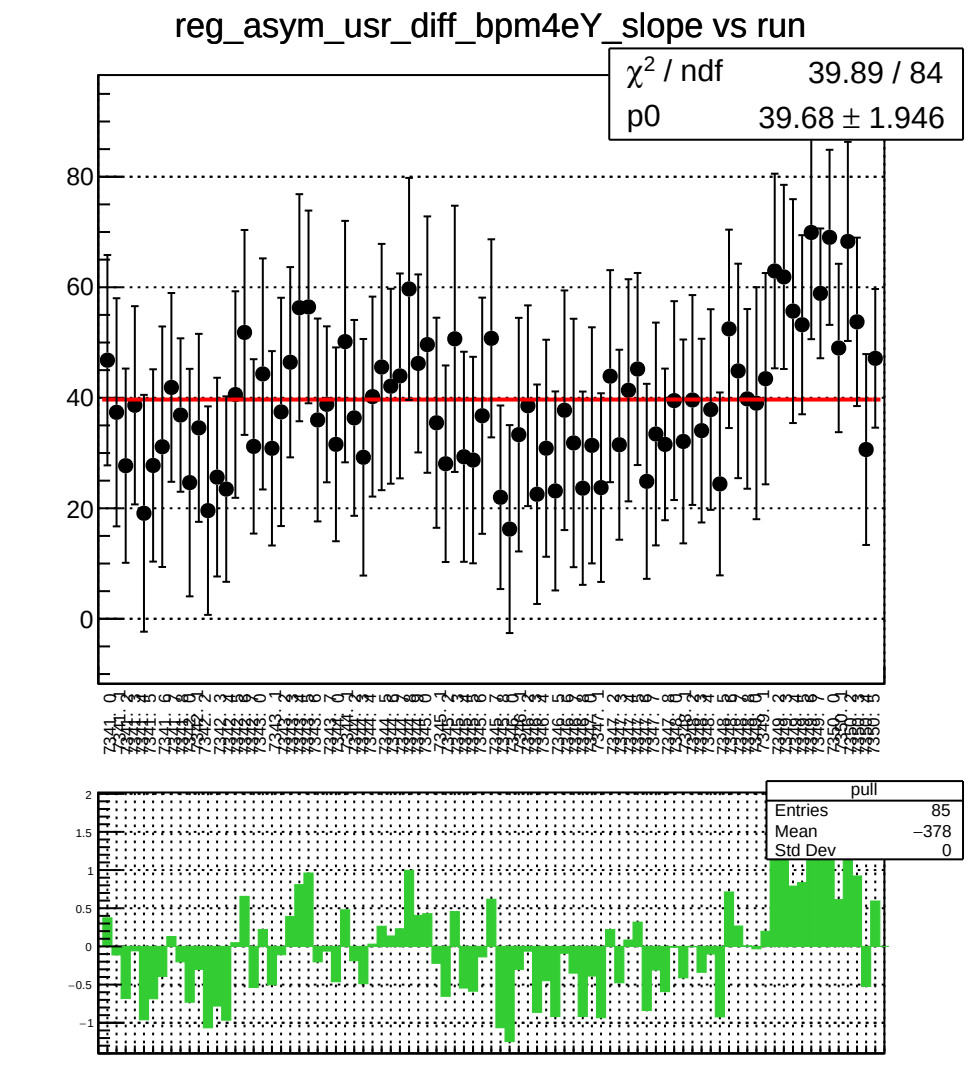

pull1D
Entries 85
Mean −0.1788
Std Dev 1.121

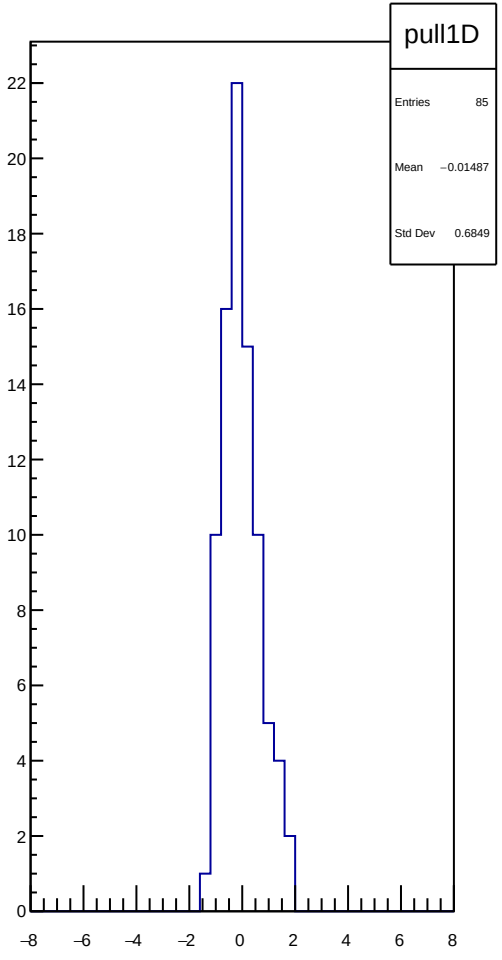

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 41.23 / 84
p0 −18.92 ± 1.784
pull
Entries 85
Mean −940.6
Std Dev 0

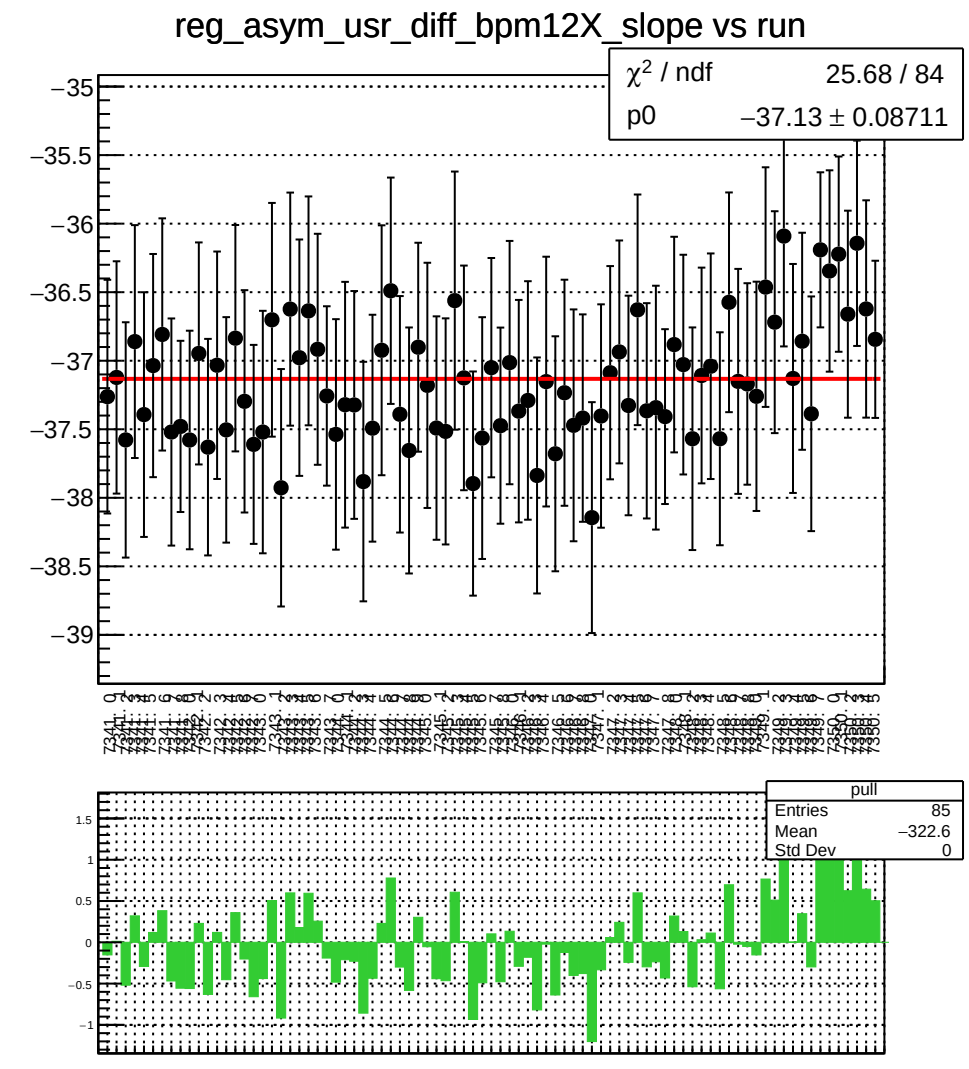

pull1D
Entries 85
Mean 0.006277
Std Dev 0.6964

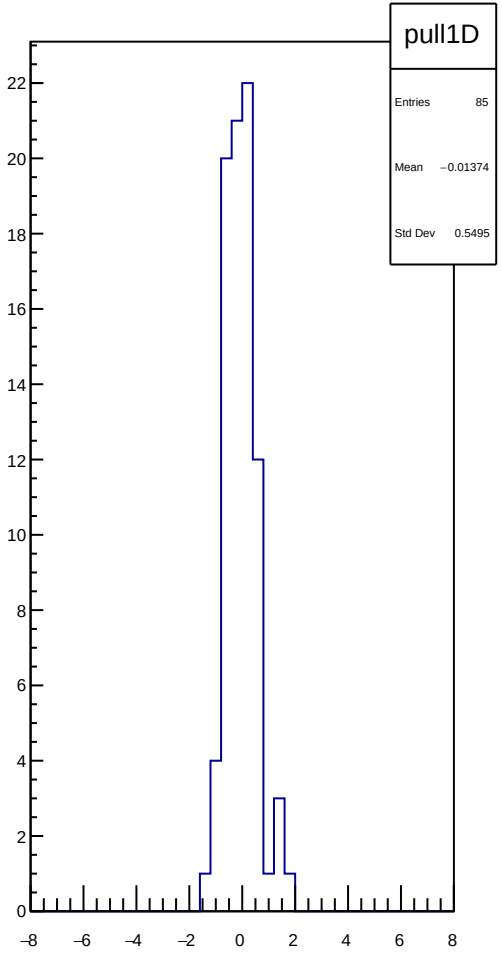

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 108.3 / 84
p0 84.51 ± 1.965
pull
Entries 85
Mean −15.93
Std Dev 0

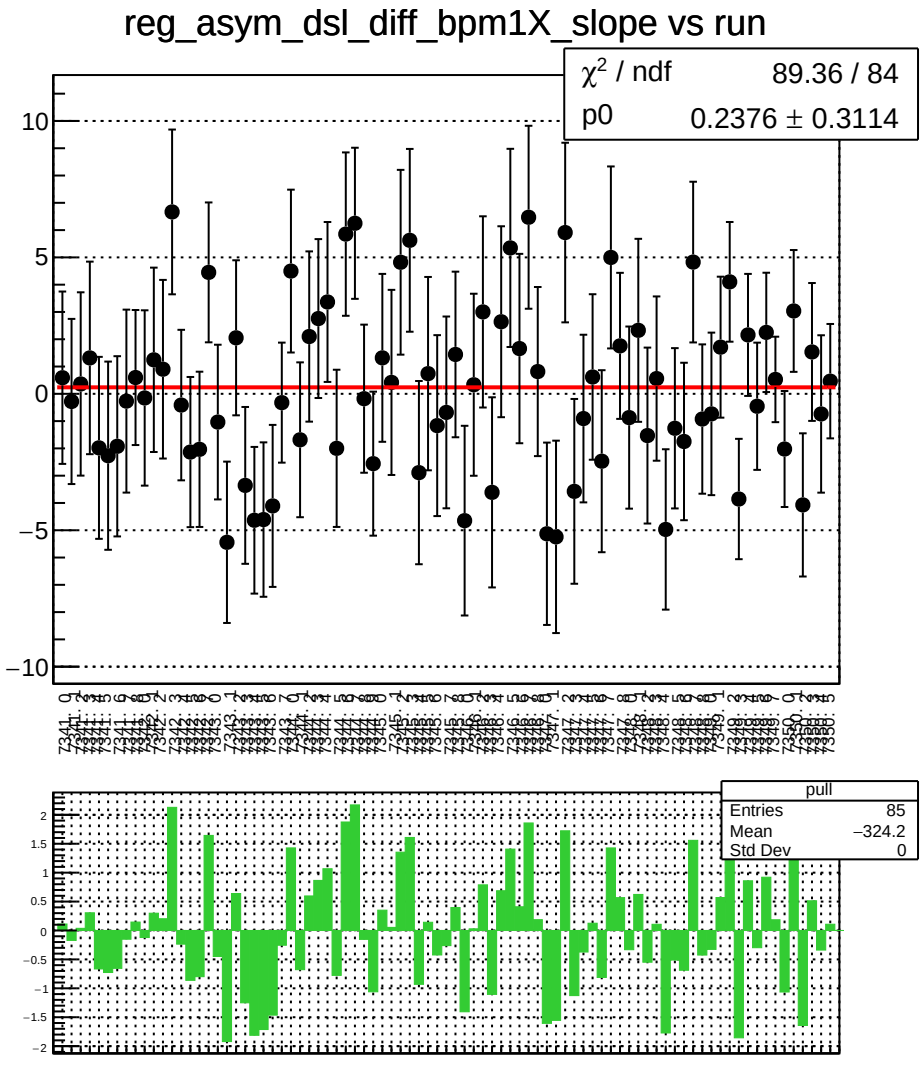

pull1D
Entries 85
Mean 0.1832
Std Dev 1.114

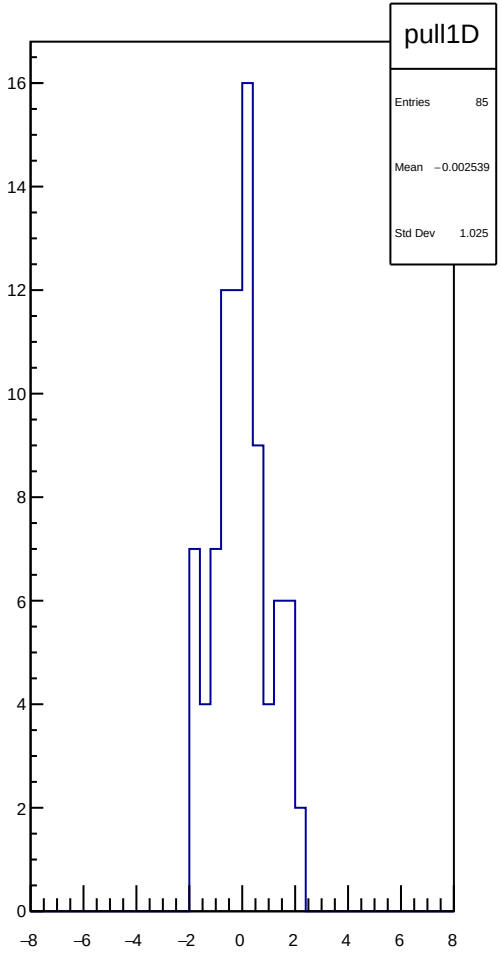

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 39.89 / 84
p0 39.68 ± 1.946
pull
Entries 85
Mean −378
Std Dev 0

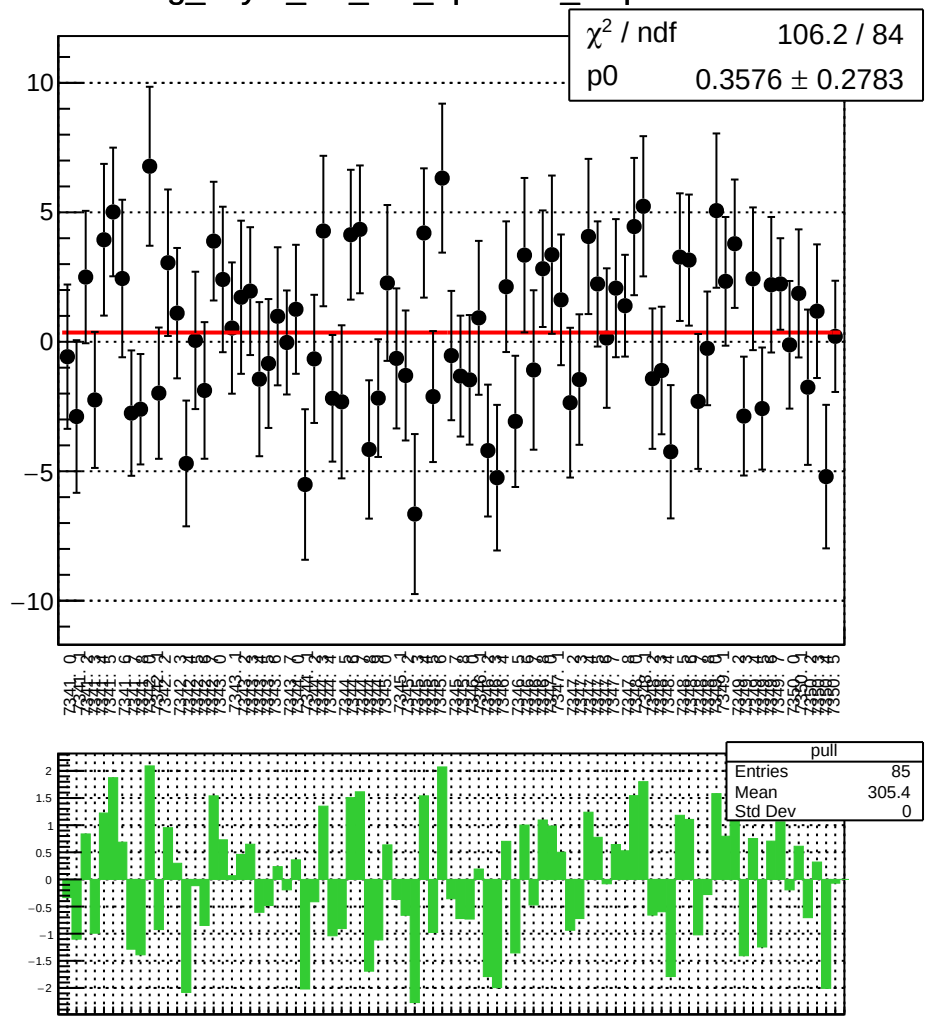

pull1D
Entries 85
Mean −0.01487
Std Dev 0.6849

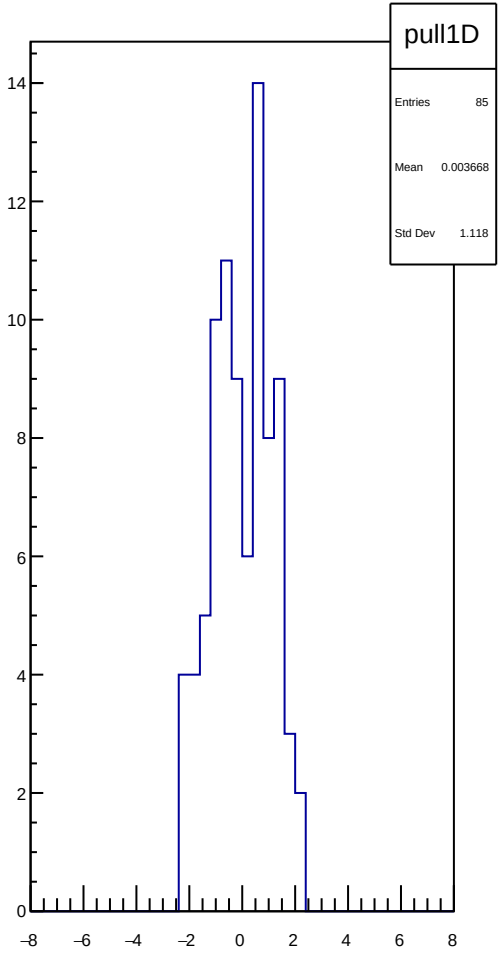

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 25.68 / 84
p0 −37.13 ± 0.08711
pull
Entries 85
Mean −322.6
Std Dev 0

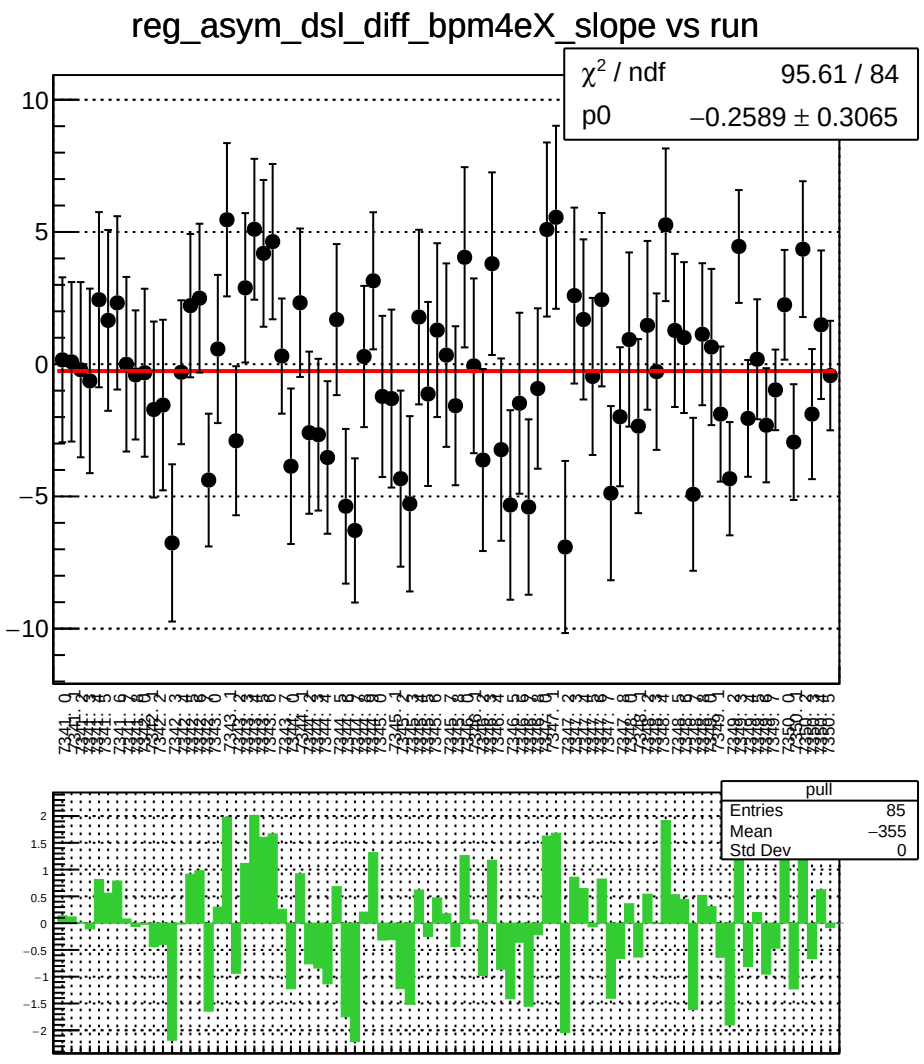

pull1D
Entries 85
Mean −0.01374
Std Dev 0.5495

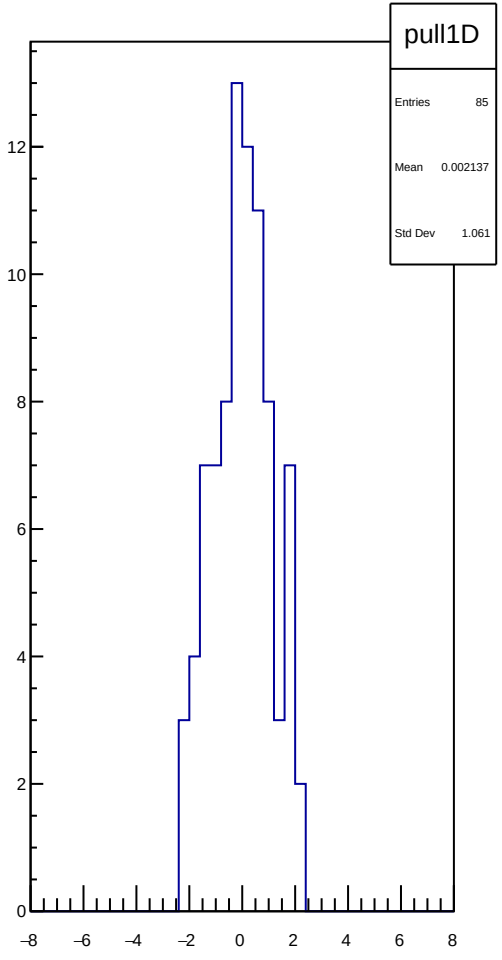

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 89.36 / 84
p0 0.2376 ± 0.3114
pull
Entries 85
Mean −324.2
Std Dev 0

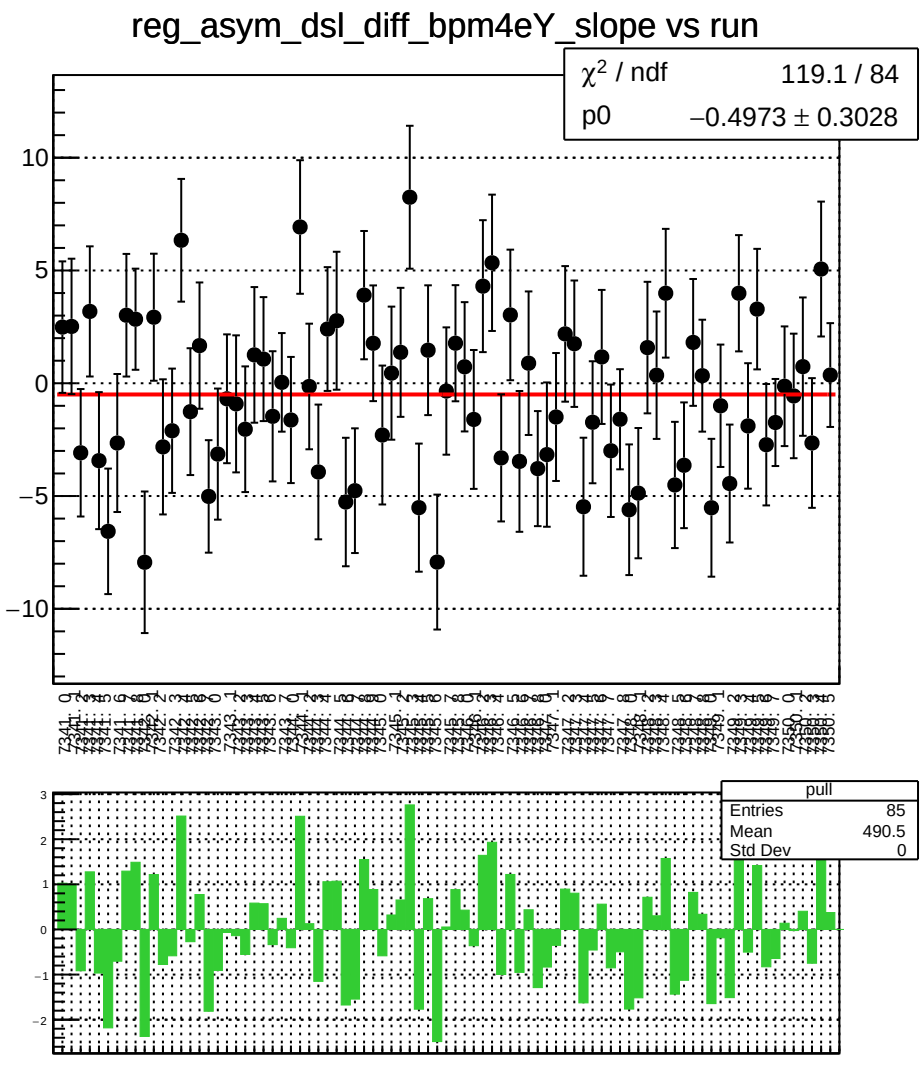

pull1D
Entries 85
Mean −0.002539
Std Dev 1.025

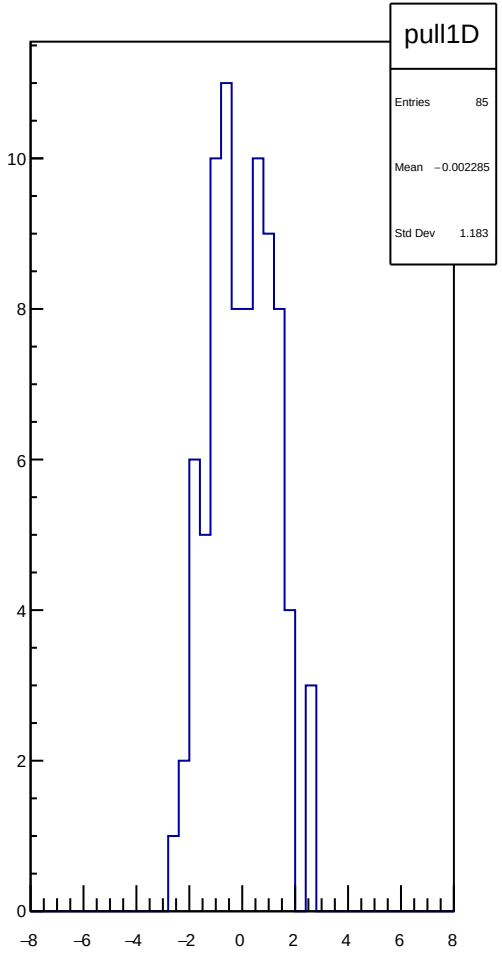

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 106.2 / 84
p0 0.3576 ± 0.2783
pull
Entries 85
Mean 305.4
Std Dev 0

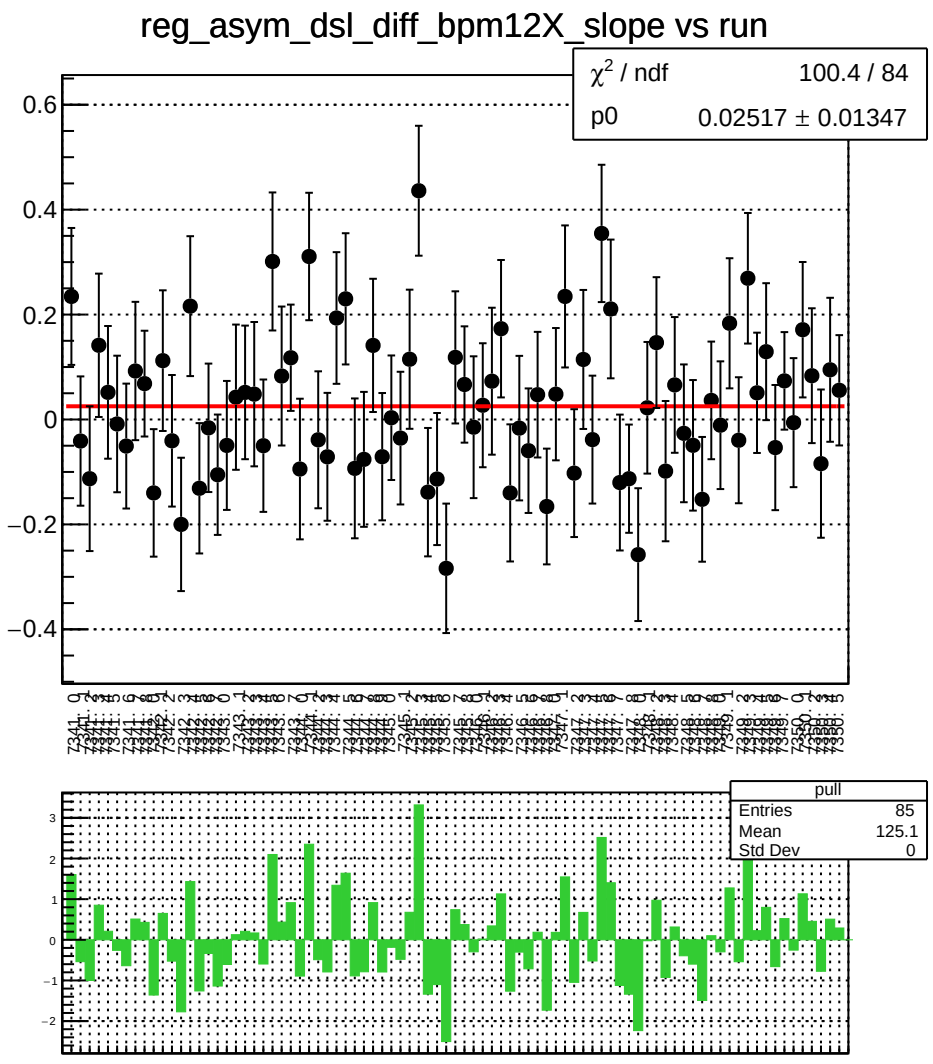

pull1D
Entries 85
Mean 0.003668
Std Dev 1.118

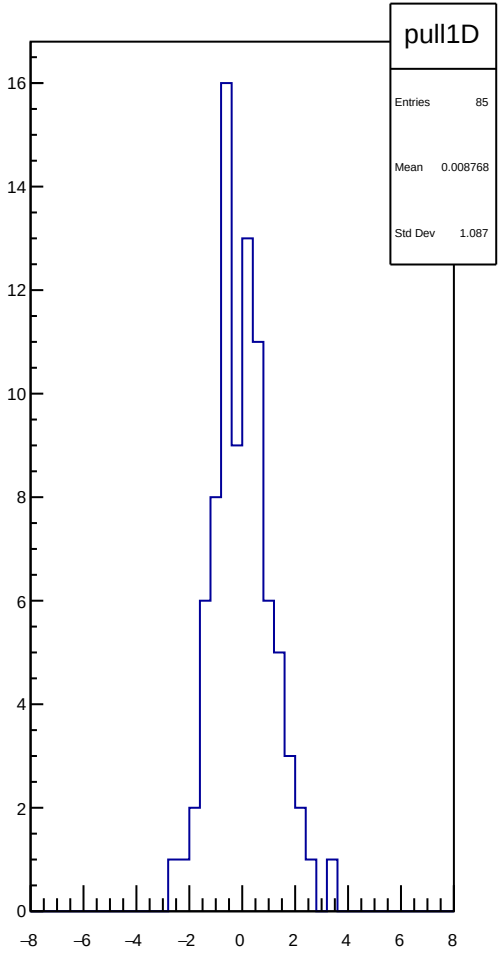

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 95.61 / 84
p0 −0.2589 ± 0.3065
pull
Entries 85
Mean −355
Std Dev 0

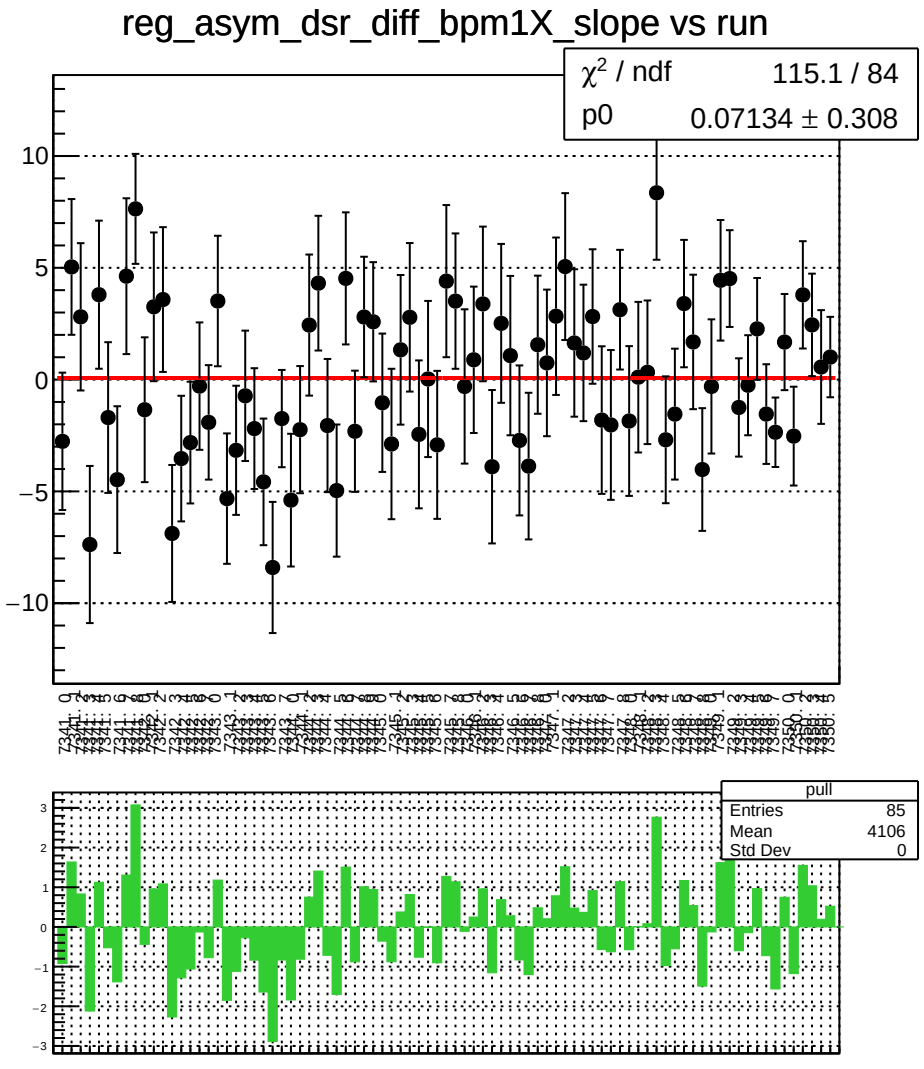

pull1D
Entries 85
Mean 0.002137
Std Dev 1.061

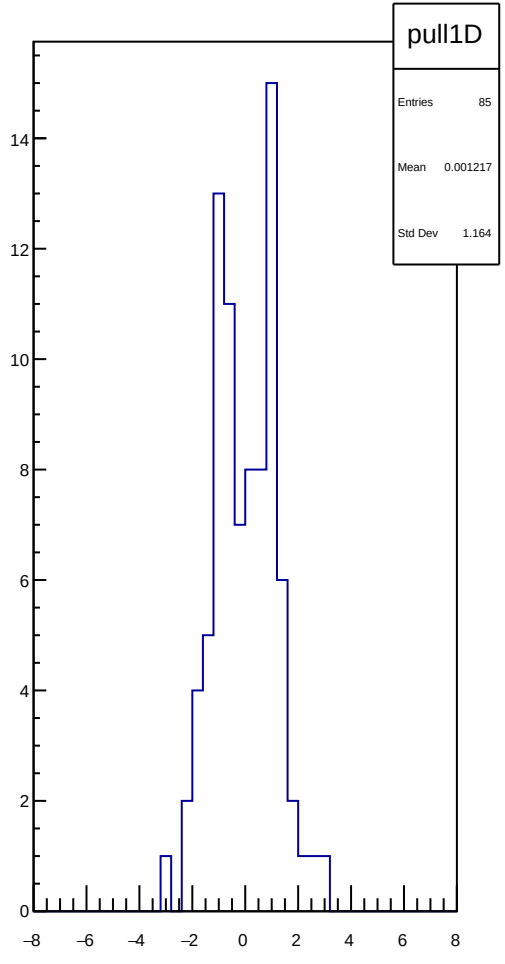

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 119.1 / 84
p0 −0.4973 ± 0.3028
pull
Entries 85
Mean 490.5
Std Dev 0

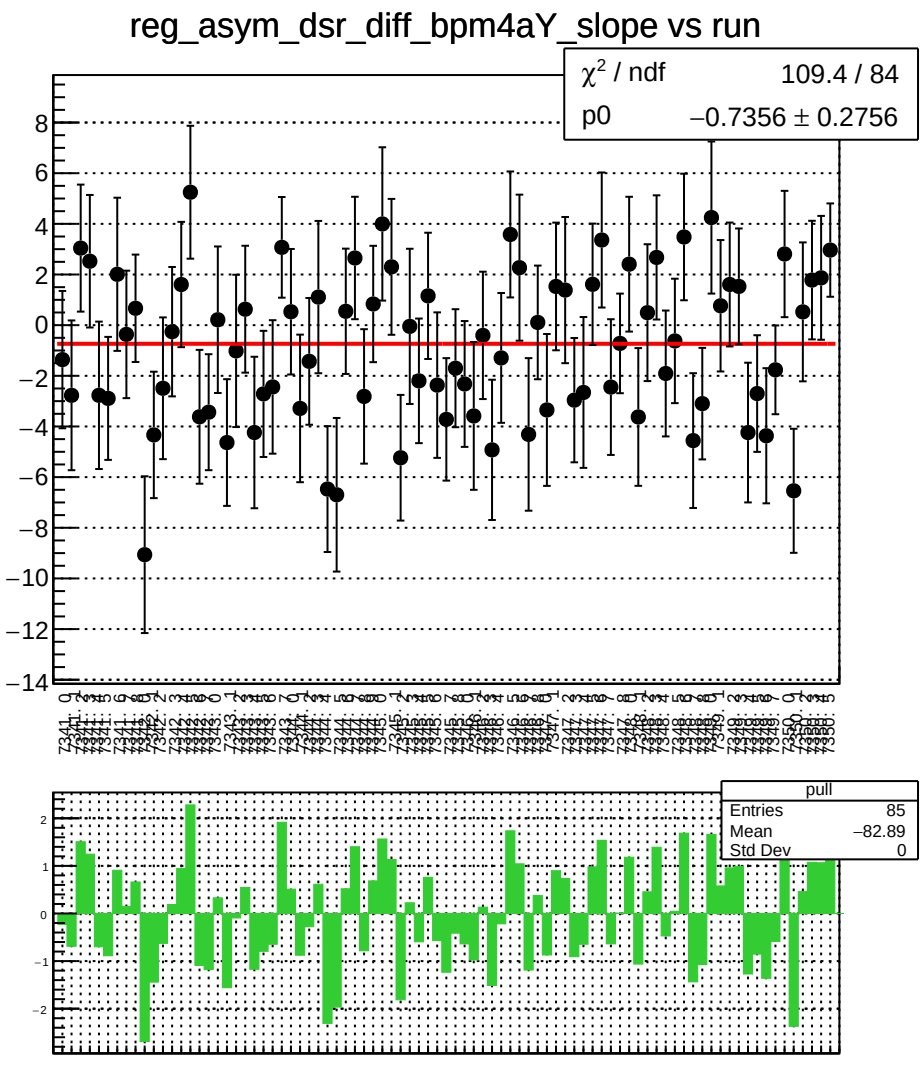

pull1D
Entries 85
Mean −0.002285
Std Dev 1.183

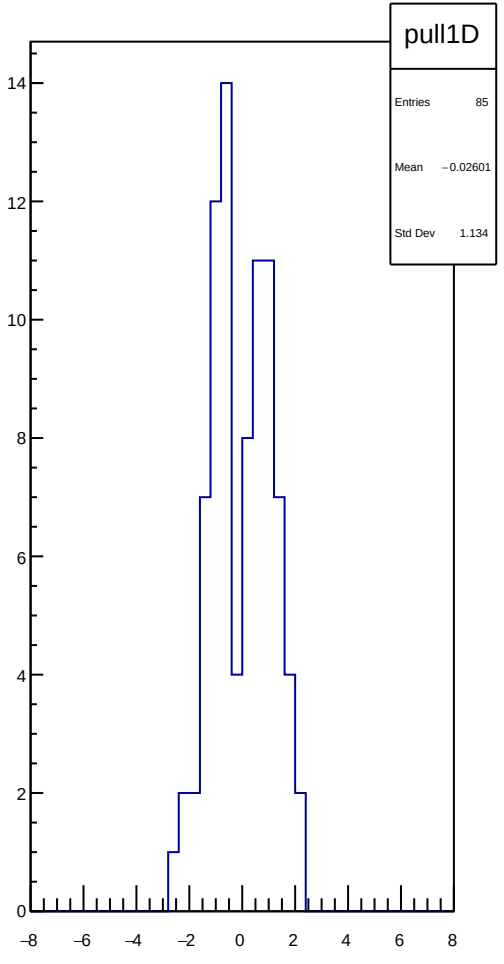

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 100.4 / 84
p0 0.02517 ± 0.01347
pull
Entries 85
Mean 125.1
Std Dev 0

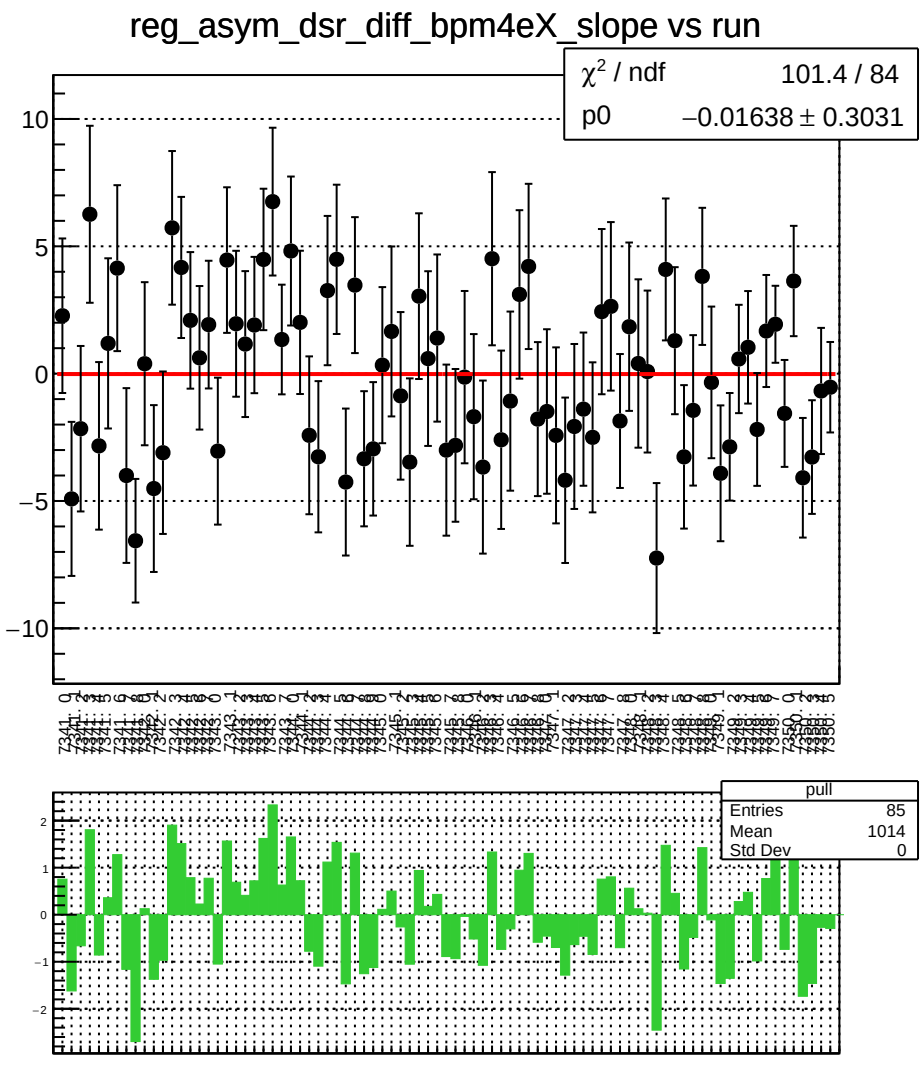

pull1D
Entries 85
Mean 0.008768
Std Dev 1.087

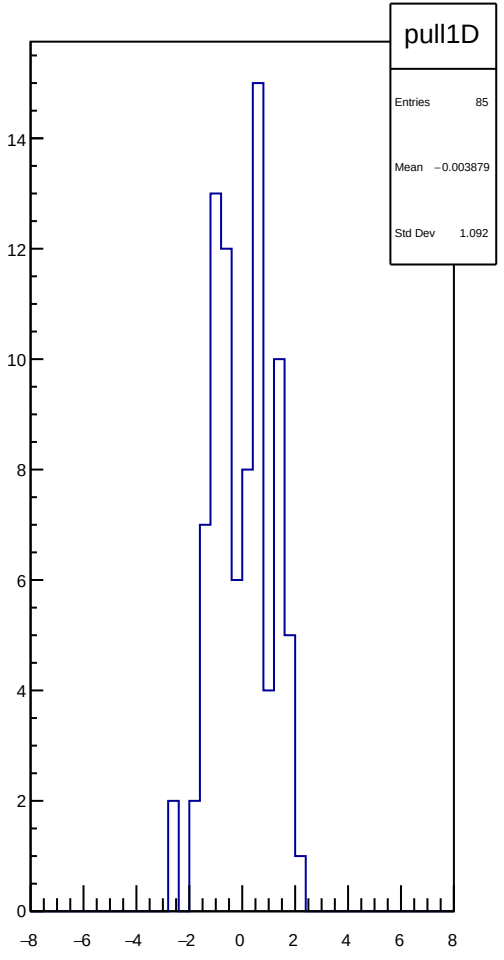

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 115.1 / 84
p0 0.07134 ± 0.308
pull
Entries 85
Mean 4106
Std Dev 0

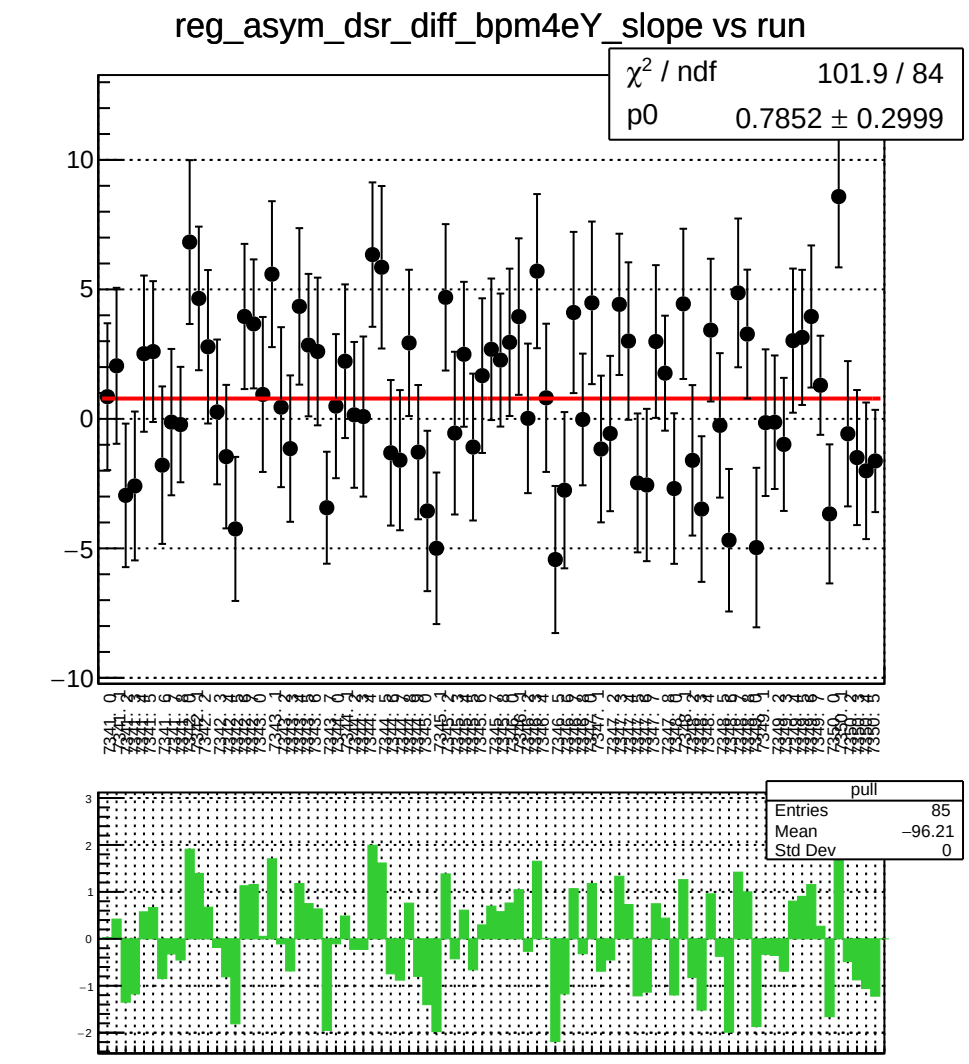

pull1D
Entries 85
Mean 0.001217
Std Dev 1.164

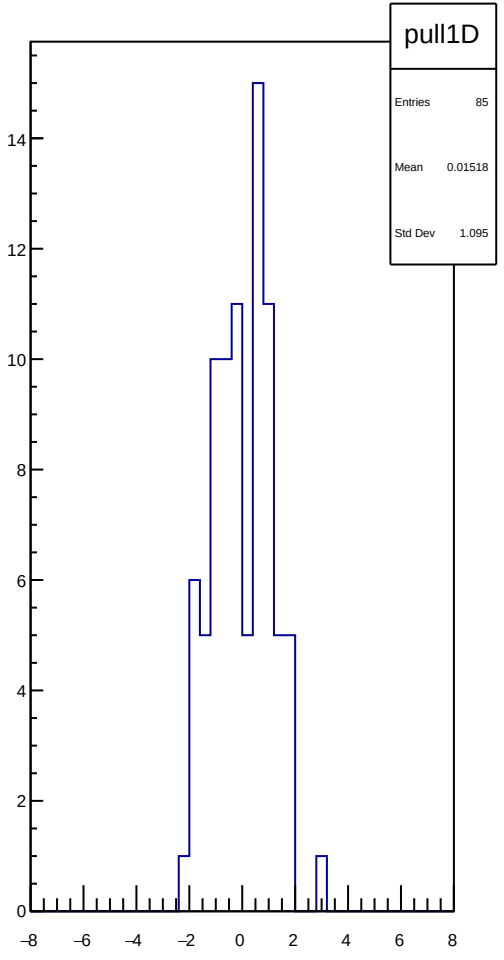

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 109.4 / 84
p0 −0.7356 ± 0.2756
pull
Entries 85
Mean −82.89
Std Dev 0

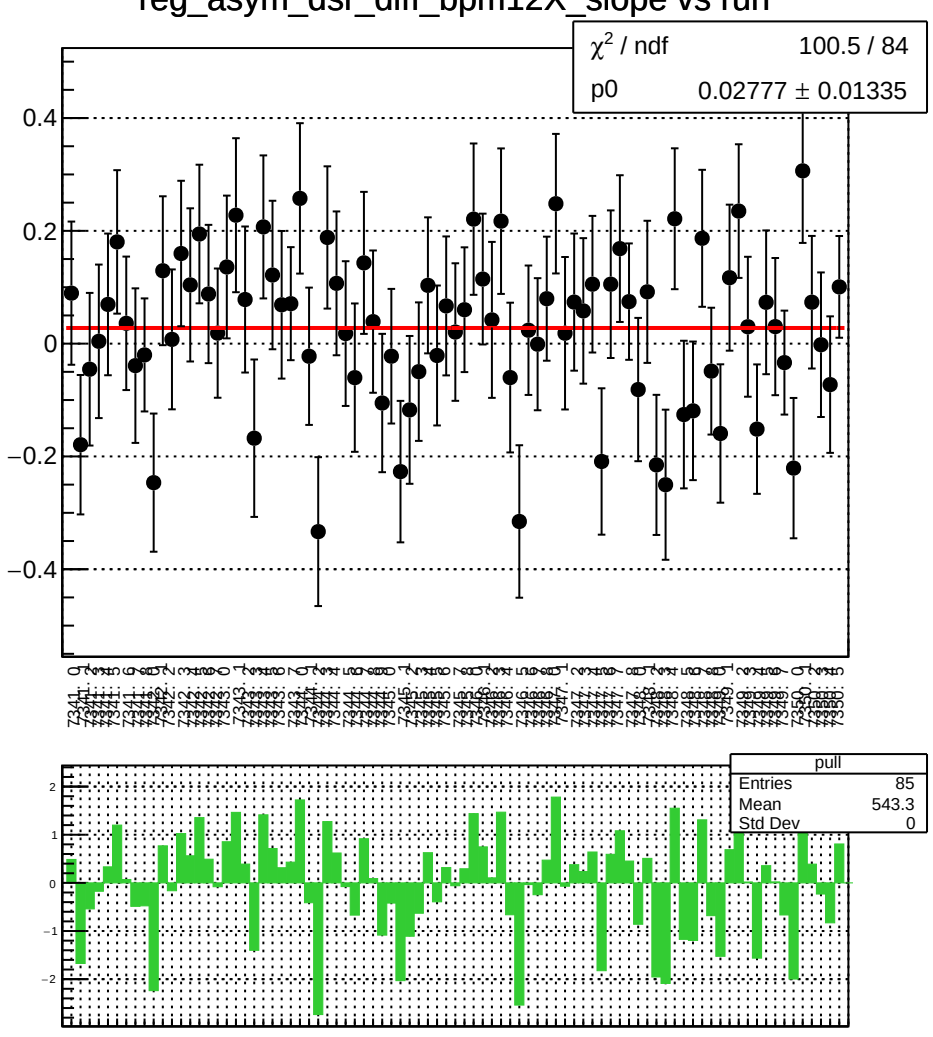

pull1D
Entries 85
Mean −0.02601
Std Dev 1.134

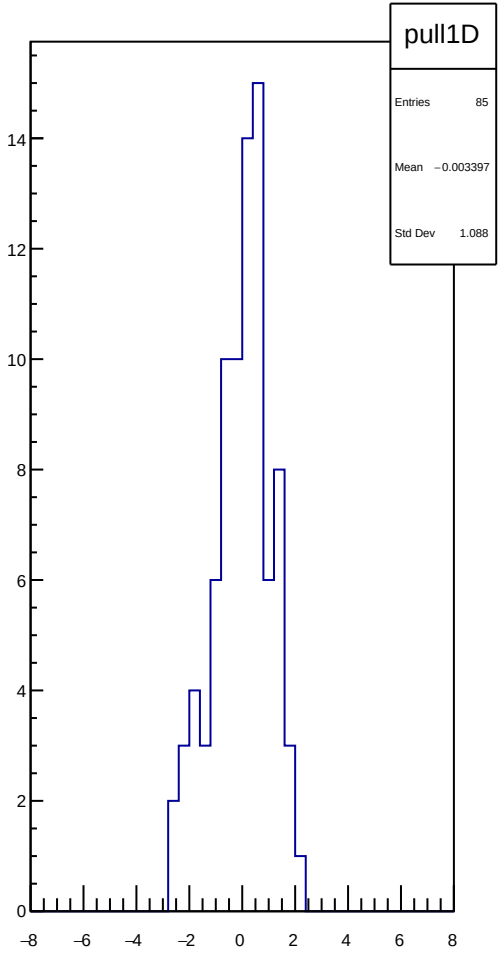

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 101.4 / 84
p0 −0.01638 ± 0.3031
pull
Entries 85
Mean 1014
Std Dev 0

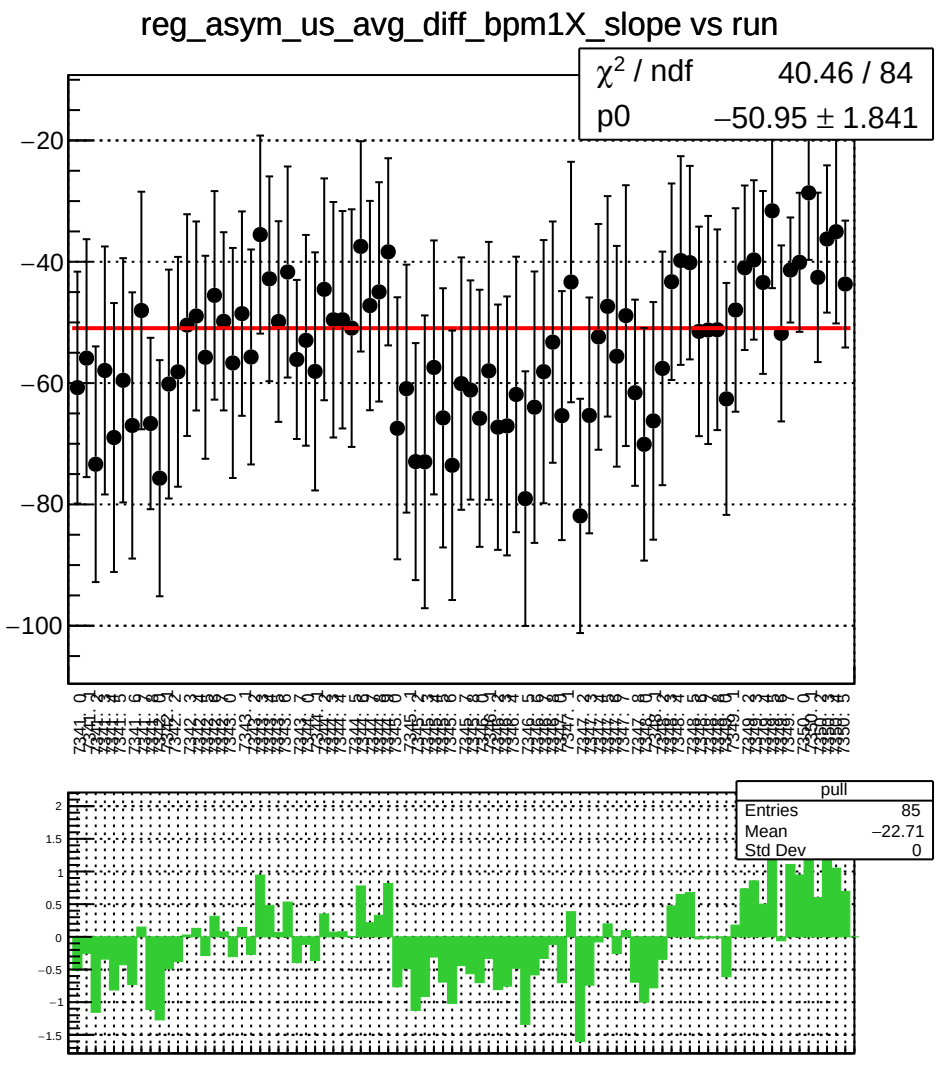

pull1D
Entries 85
Mean −0.003879
Std Dev 1.092

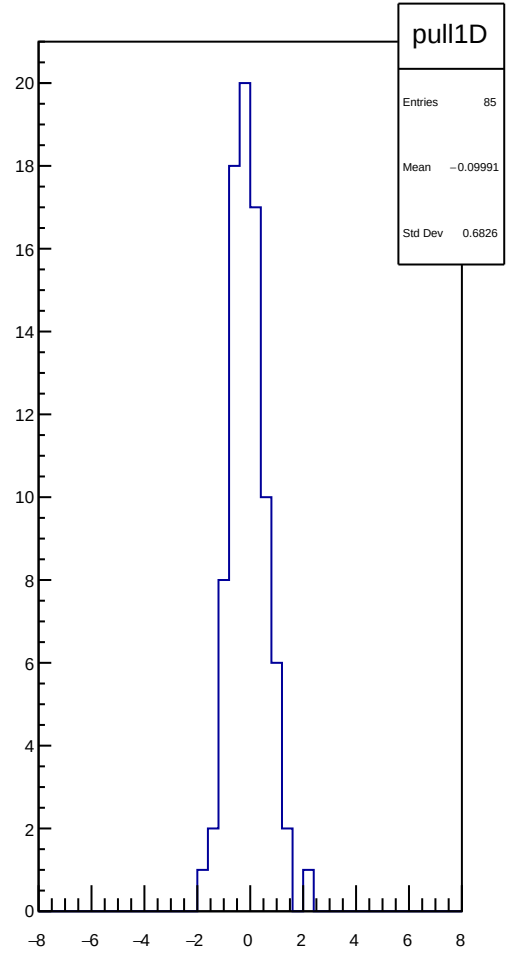

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 101.9 / 84
p0 0.7852 ± 0.2999
pull
Entries 85
Mean −96.21
Std Dev 0

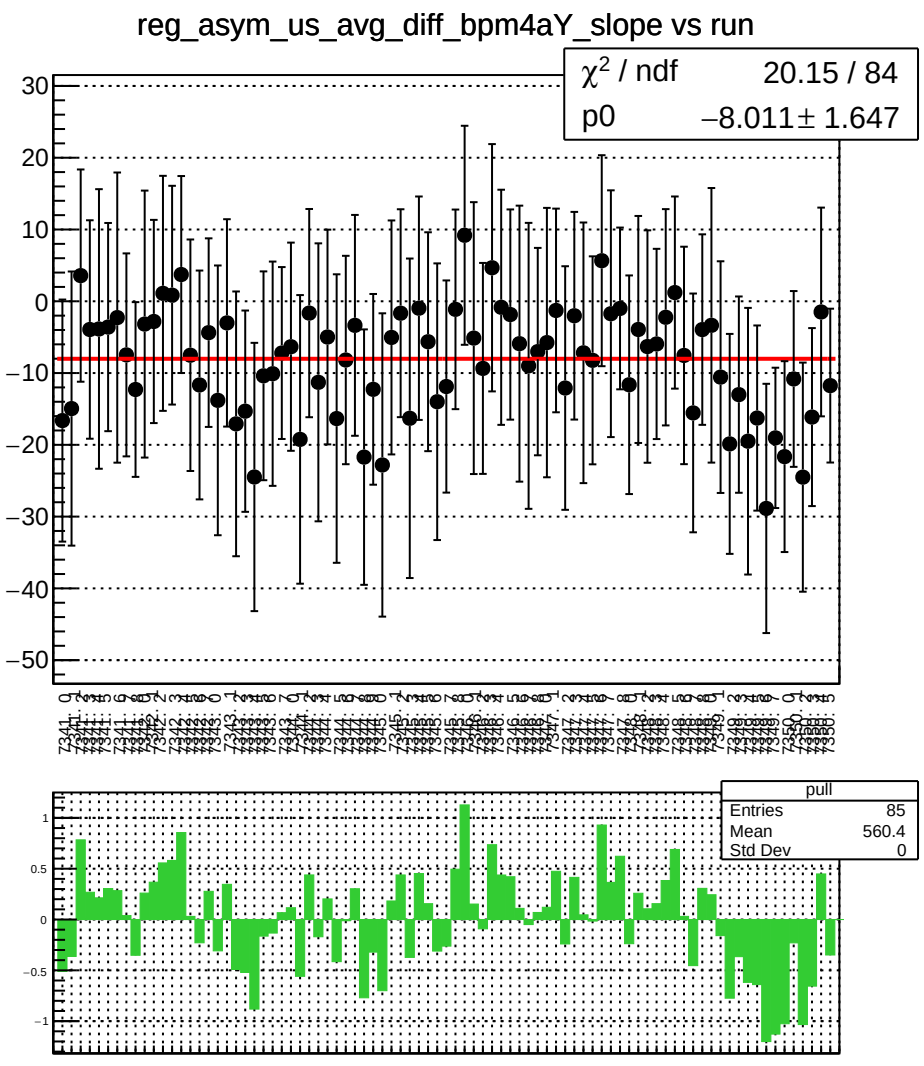

pull1D
Entries 85
Mean 0.01518
Std Dev 1.095

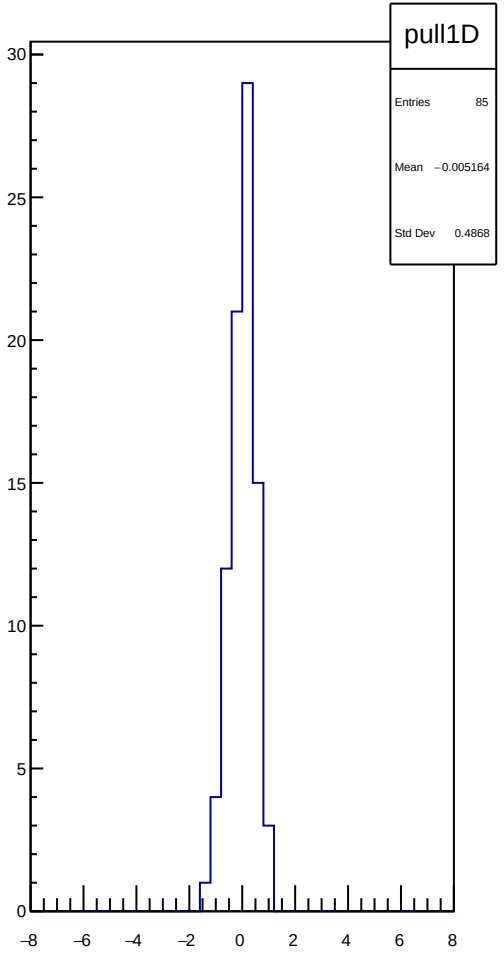

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 100.5 / 84
p0 0.02777 ± 0.01335
pull
Entries 85
Mean 543.3
Std Dev 0

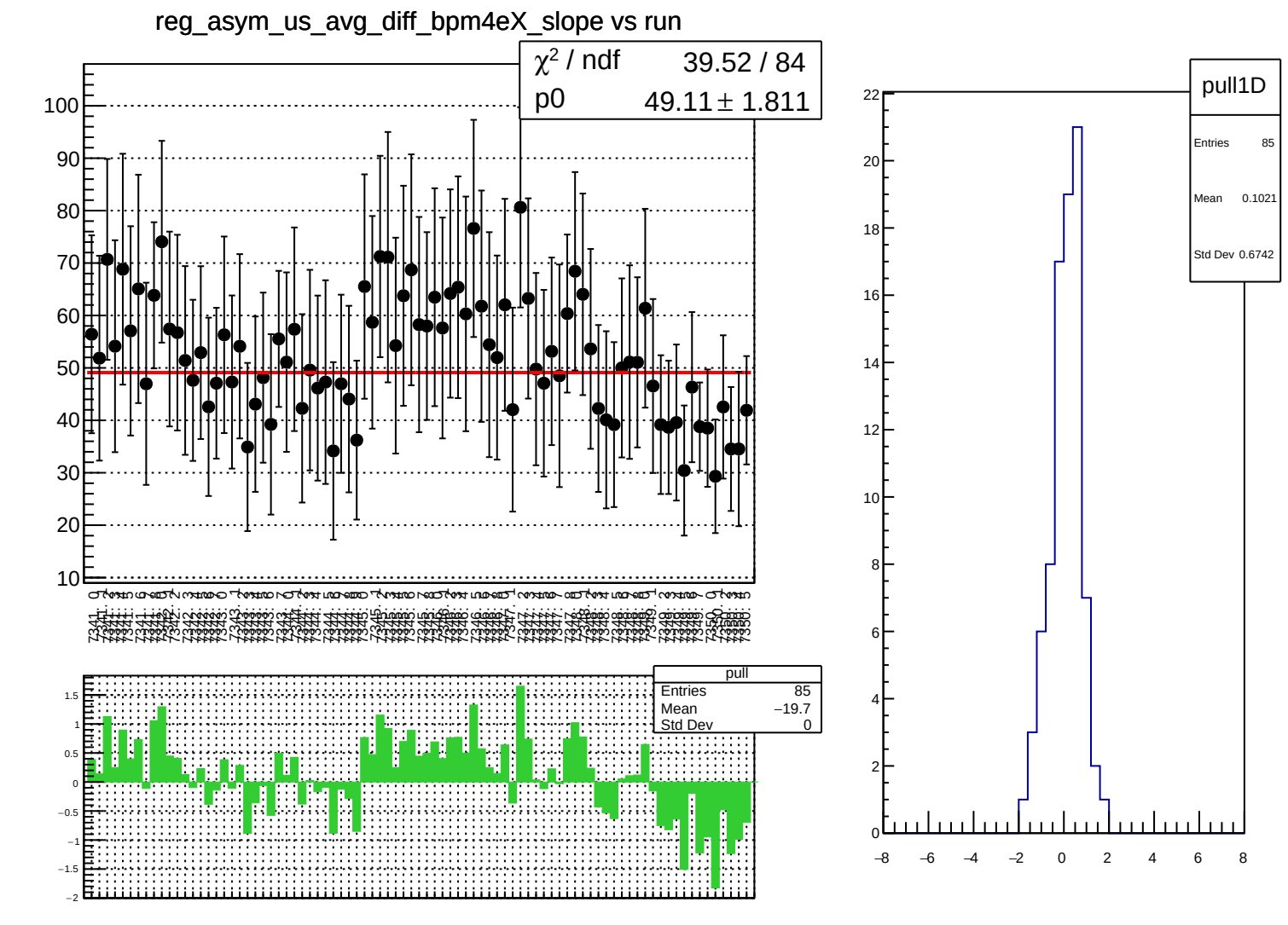

pull1D
Entries 85
Mean −0.003397
Std Dev 1.088

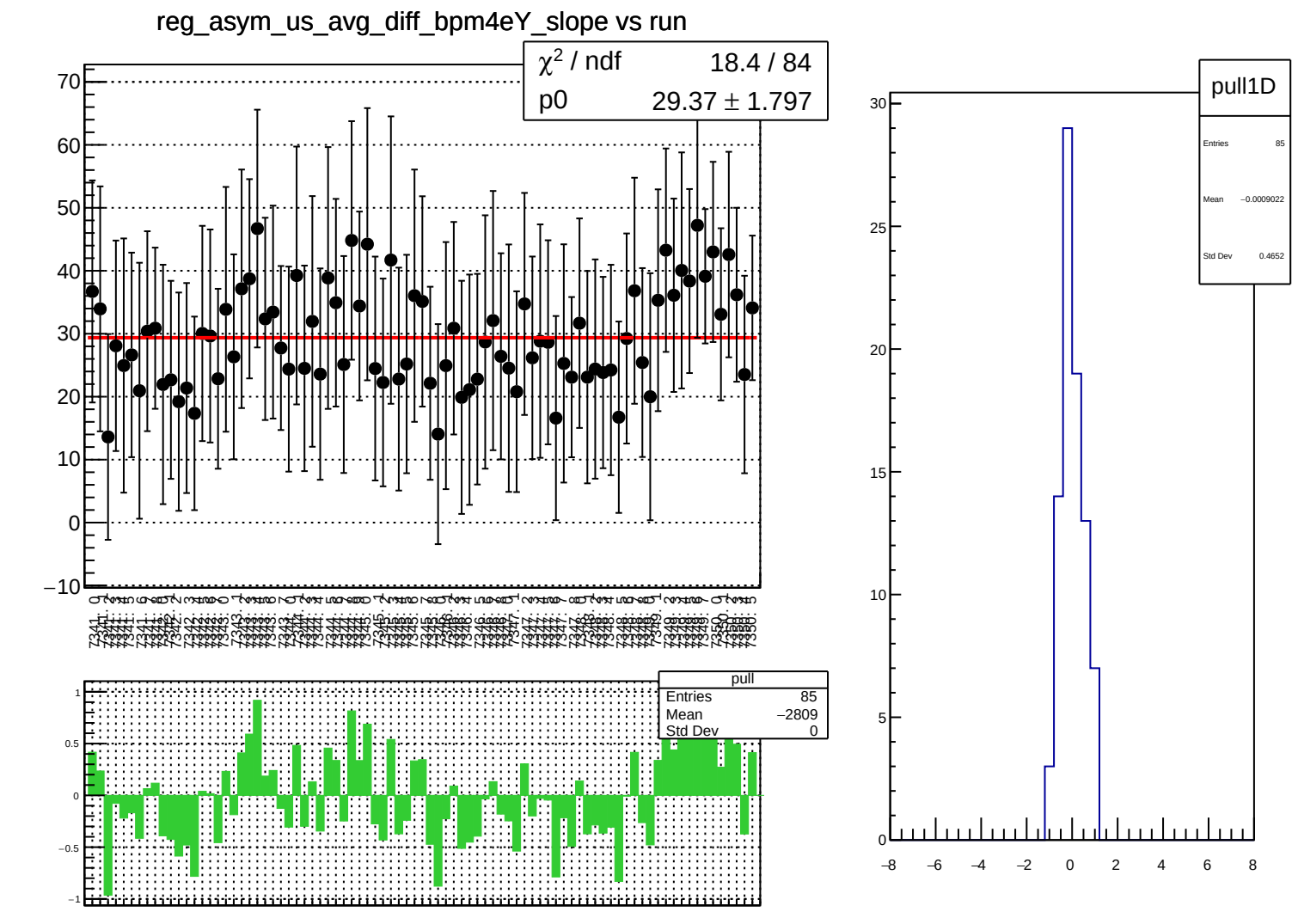

reg_asym_us_avg_diff_bpm1X_slope vs run
χ^2 / ndf 40.46 / 84
p0 −50.95 ± 1.841
−20
−40
−60
−80
−100
pull
Entries 85
Mean −22.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

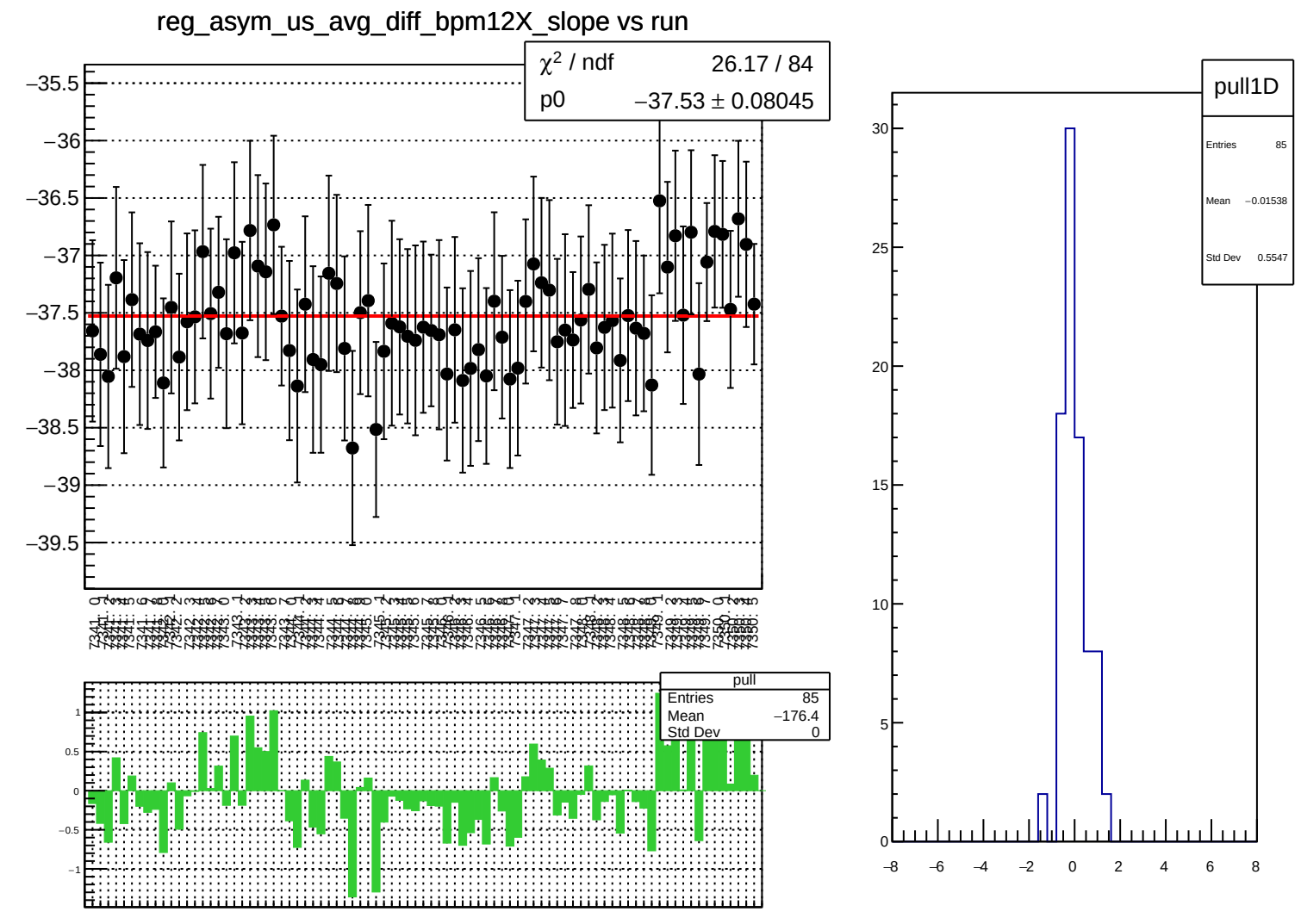

pull1D
Entries 85
Mean −0.09991
Std Dev 0.6826
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

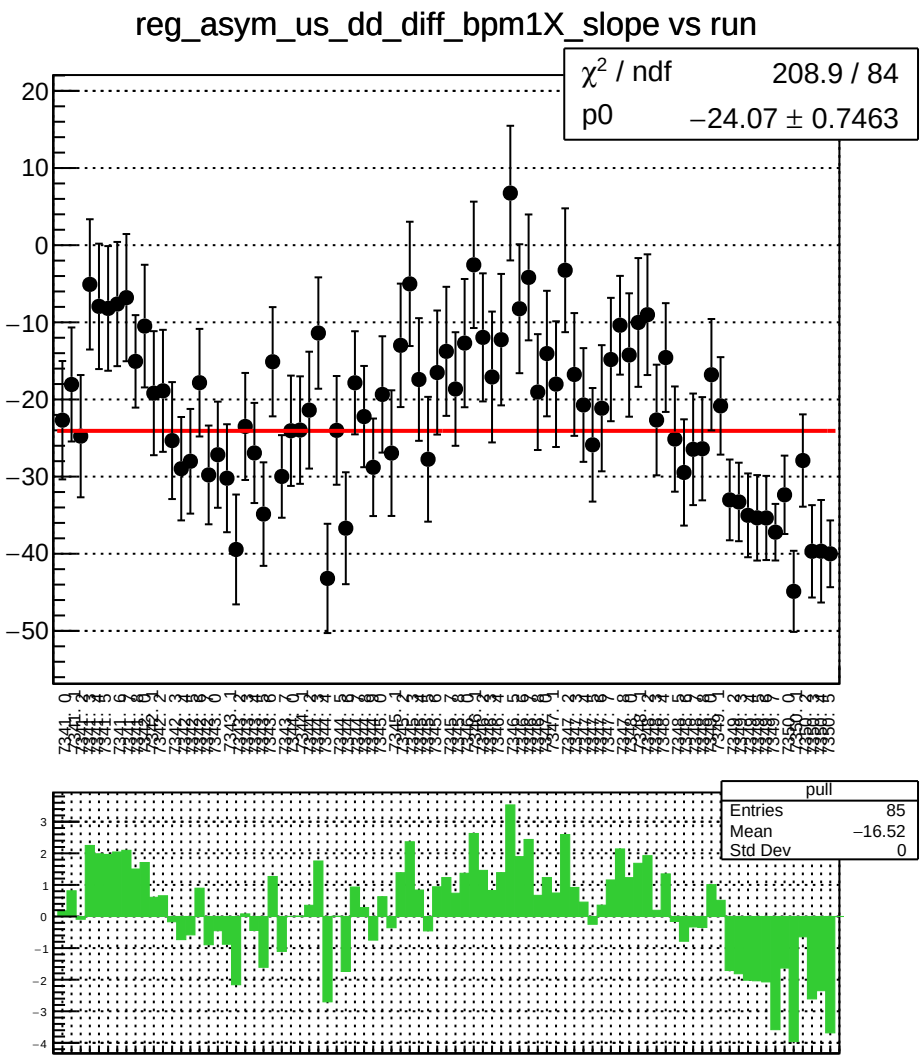

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.15 / 84
p0 −8.011 ± 1.647
pull
Entries 85
Mean 560.4
Std Dev 0

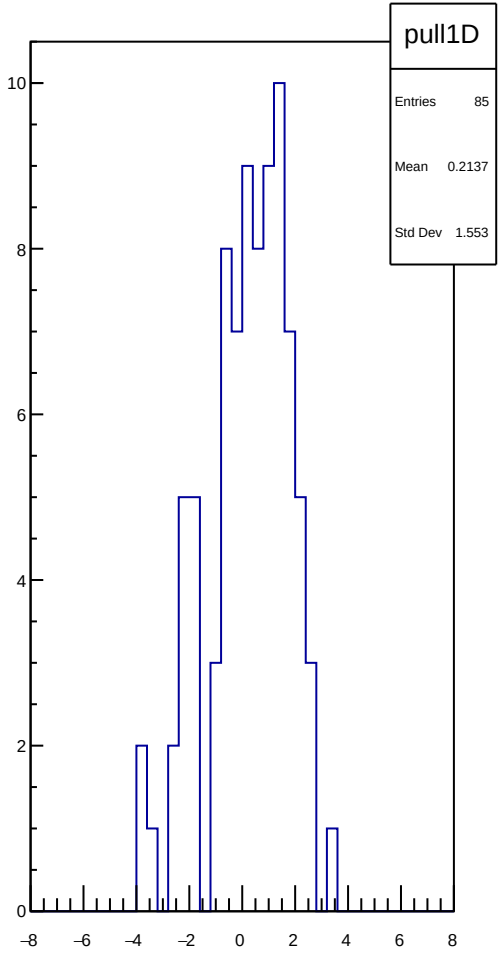

pull1D
Entries 85
Mean −0.005164
Std Dev 0.4868

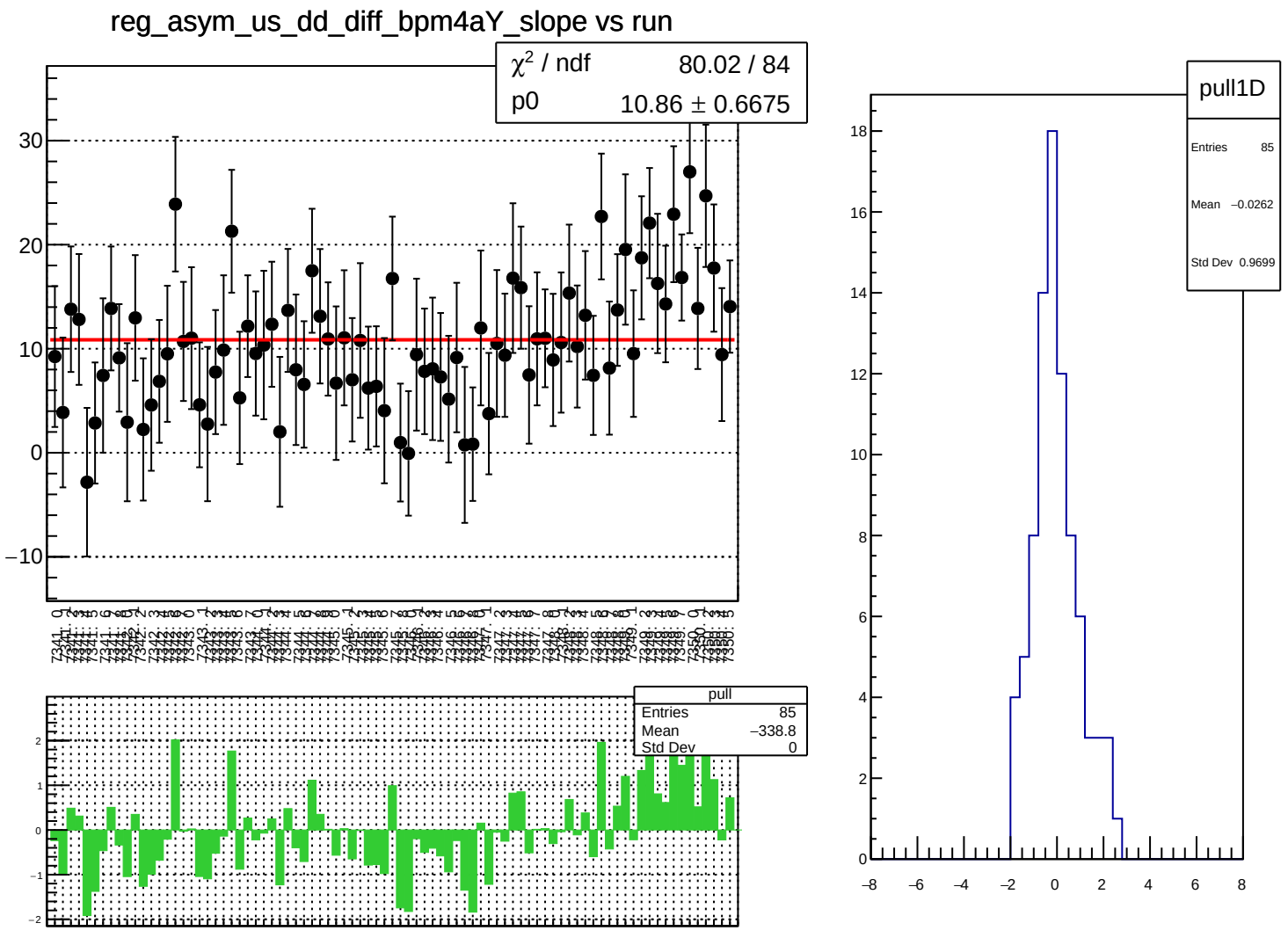

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.52 / 84
p0 49.11 ± 1.811
pull
Entries 85
Mean −19.7
Std Dev 0
pull1D
Entries 85
Mean 0.1021
Std Dev 0.6742

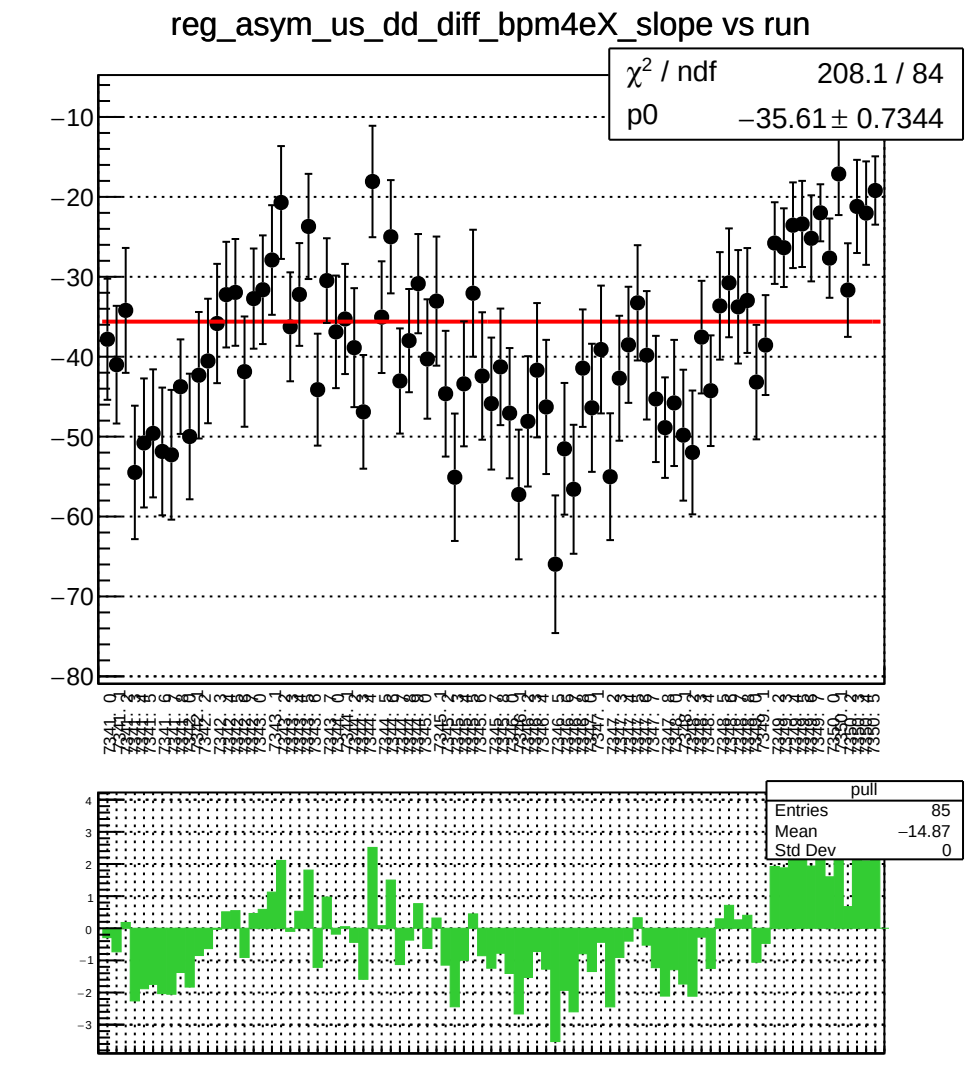

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.4 / 84
p0 29.37 ± 1.797
pull
Entries 85
Mean −2809
Std Dev 0
pull1D
Entries 85
Mean −0.0009022
Std Dev 0.4652

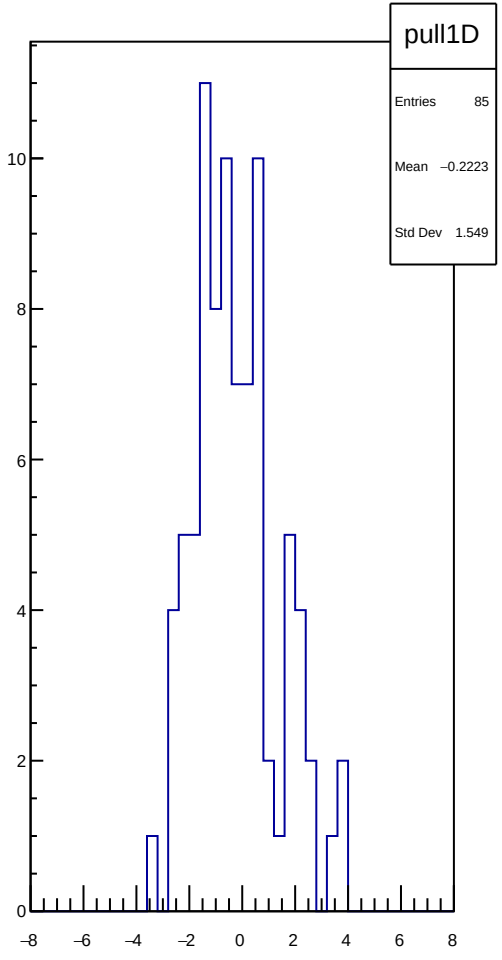

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 26.17 / 84
p0 −37.53 ± 0.08045
pull
Entries 85
Mean −176.4
Std Dev 0
pull1D
Entries 85
Mean −0.01538
Std Dev 0.5547

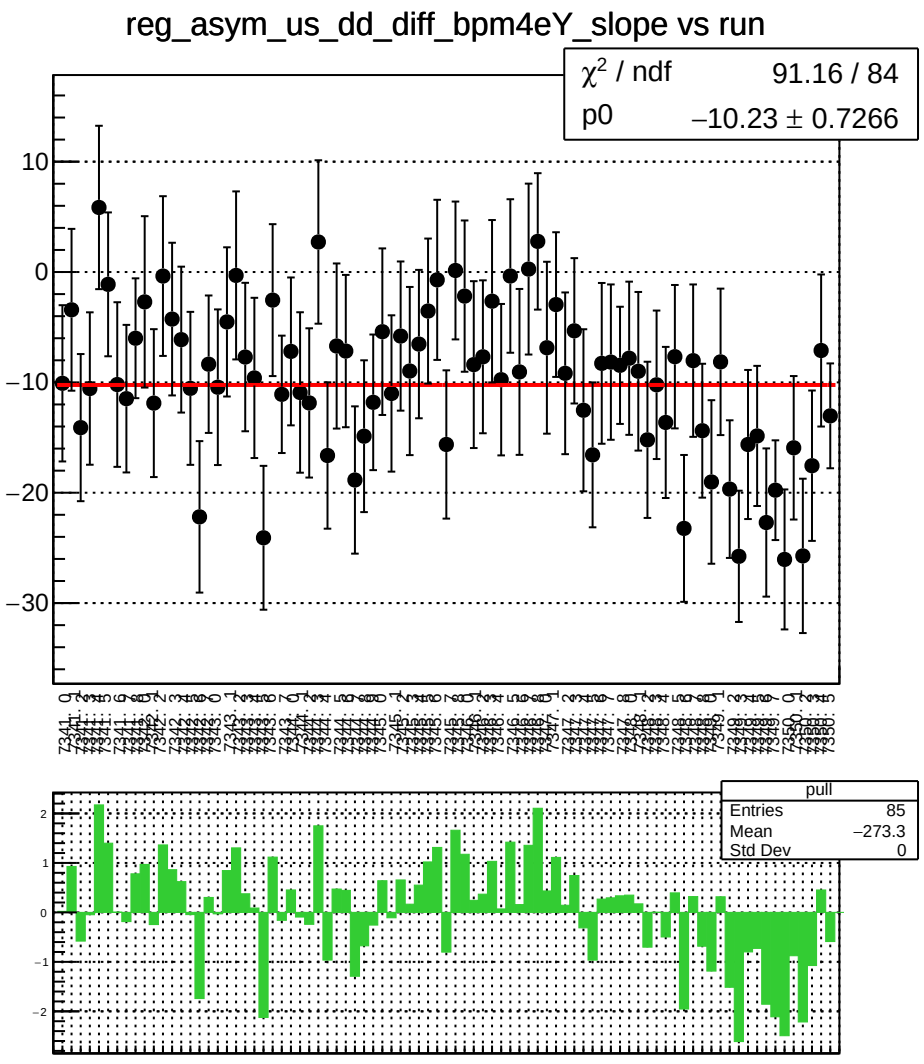

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 208.9 / 84
p0 −24.07 ± 0.7463
pull
Entries 85
Mean −16.52
Std Dev 0

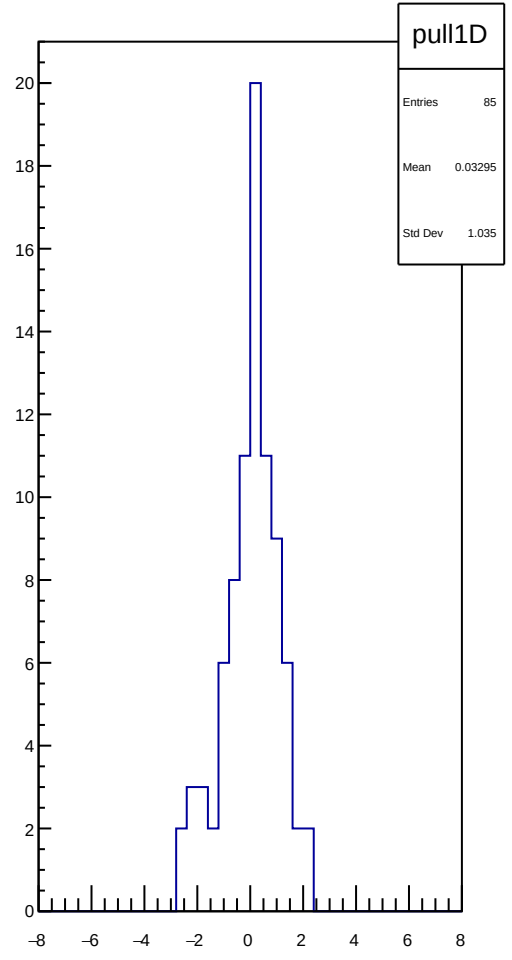

pull1D
Entries 85
Mean 0.2137
Std Dev 1.553

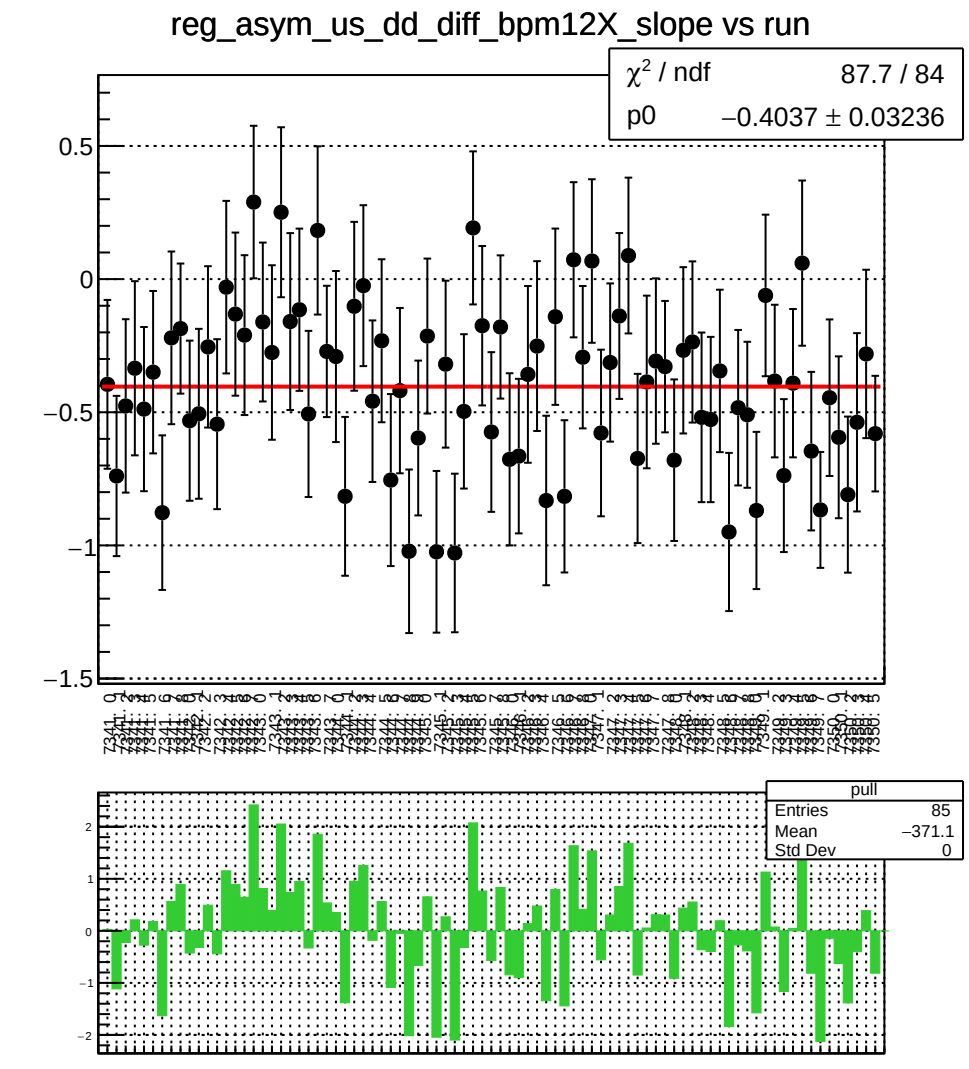

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.02 / 84
p0 10.86 ± 0.6675
pull
Entries 85
Mean −338.8
Std Dev 0
pull1D
Entries 85
Mean −0.0262
Std Dev 0.9699

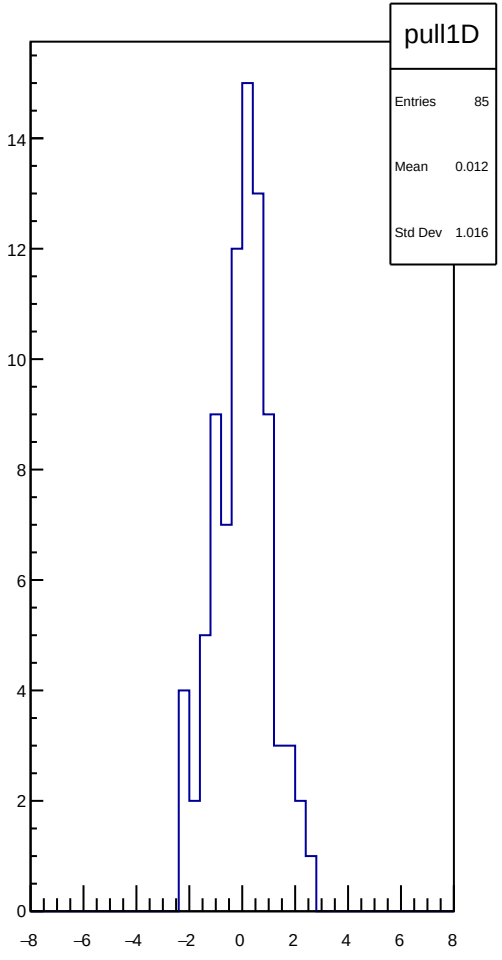

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 208.1 / 84
p0 −35.61 ± 0.7344
pull
Entries 85
Mean −14.87
Std Dev 0

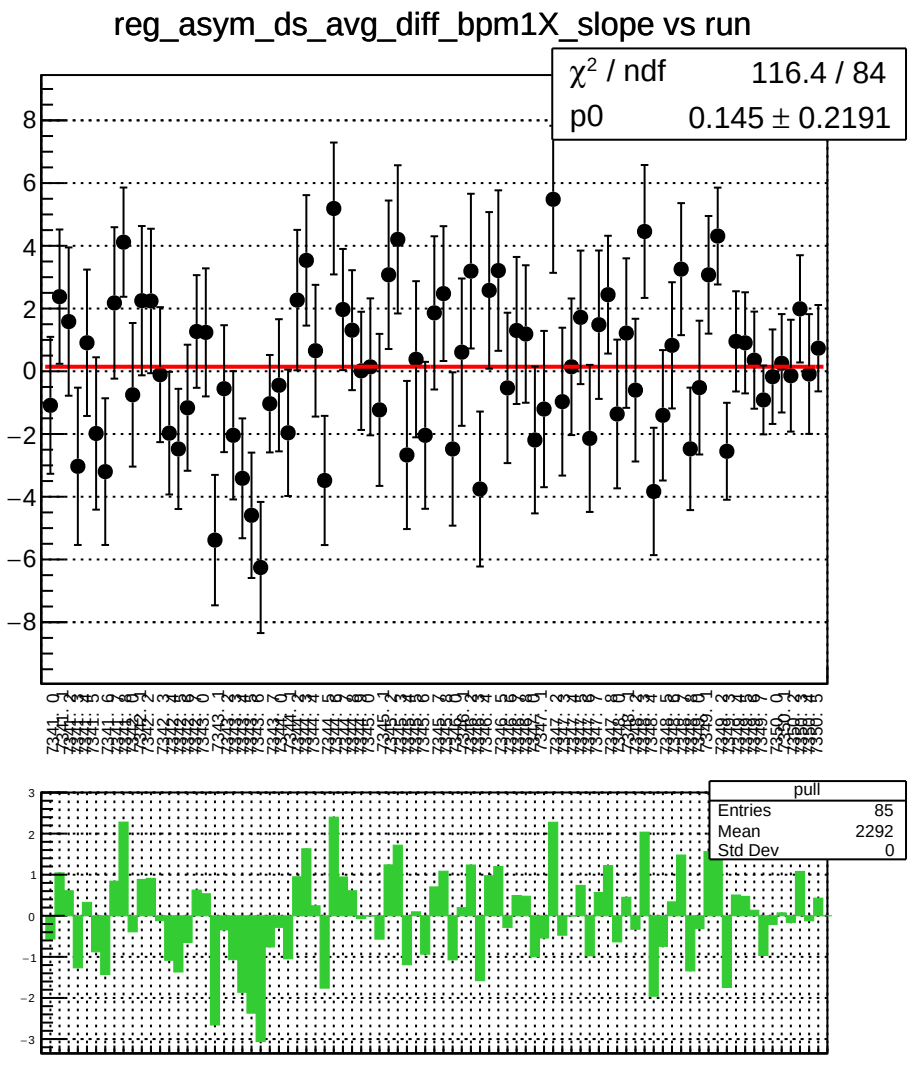

pull1D
Entries 85
Mean −0.2223
Std Dev 1.549

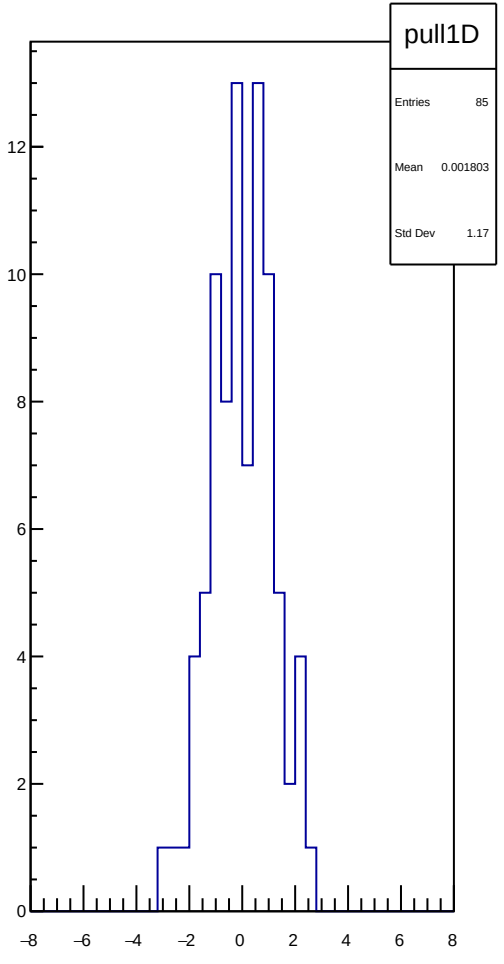

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 91.16 / 84
p0 −10.23 ± 0.7266
pull
Entries 85
Mean −273.3
Std Dev 0

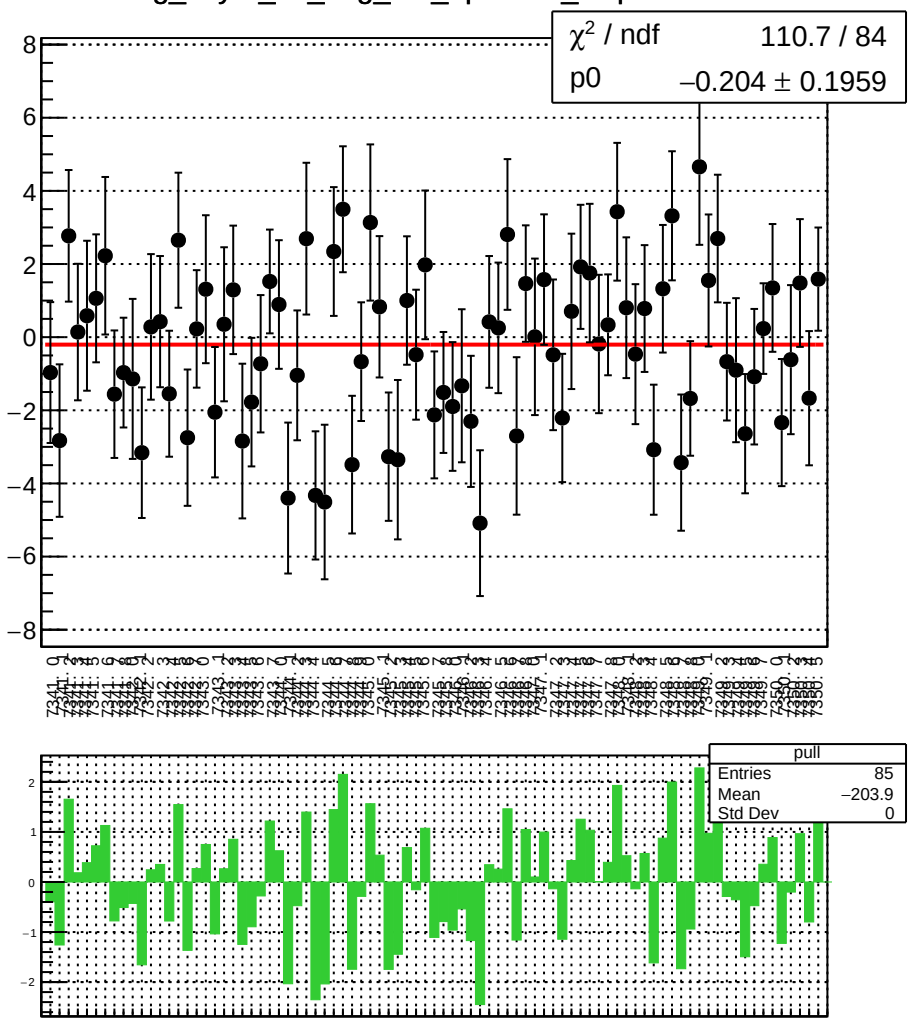

pull1D
Entries 85
Mean 0.03295
Std Dev 1.035

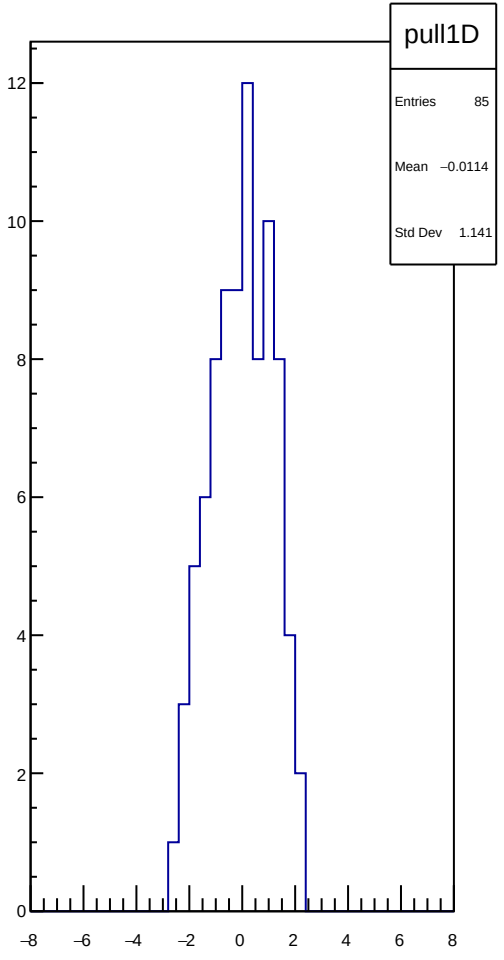

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 87.7 / 84
p0 −0.4037 ± 0.03236
pull
Entries 85
Mean −371.1
Std Dev 0

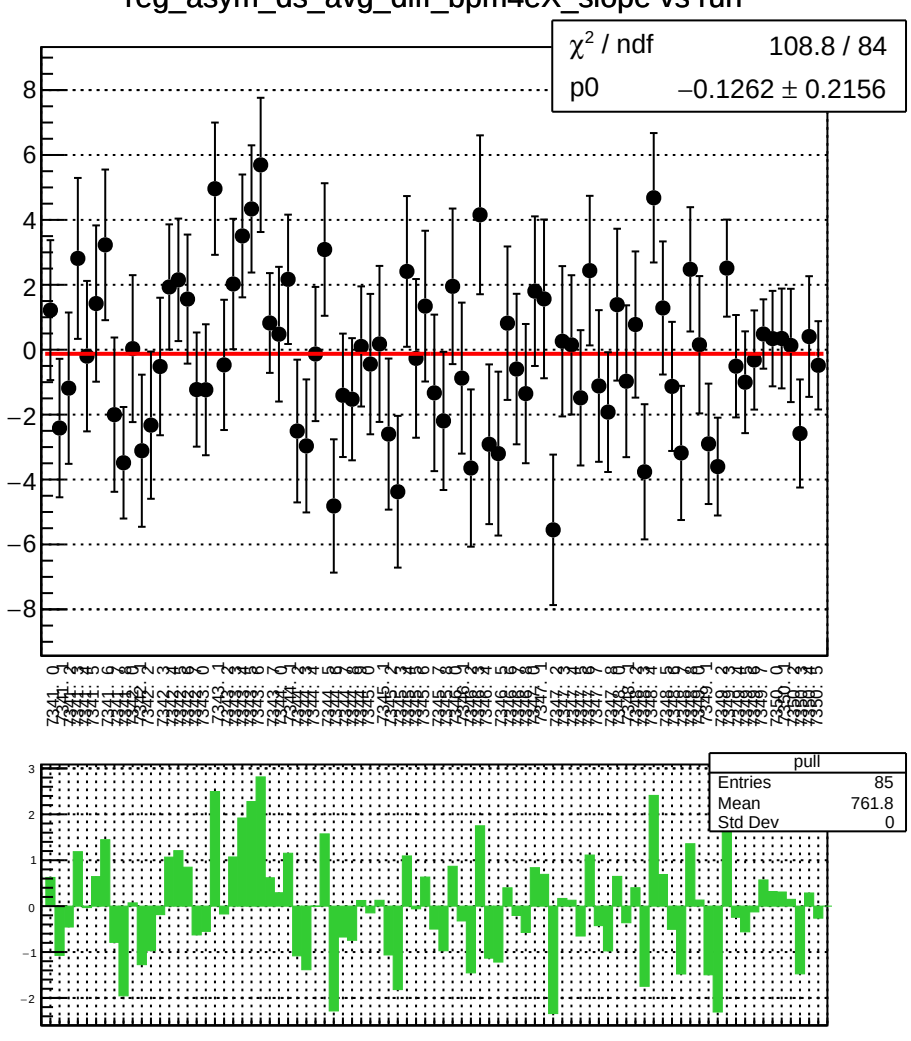

pull1D
Entries 85
Mean 0.012
Std Dev 1.016

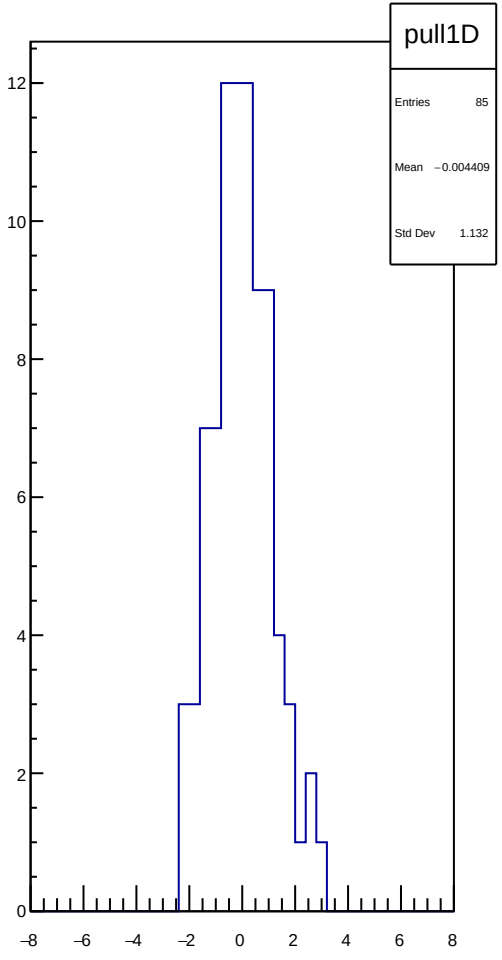

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 116.4 / 84
p0 0.145 ± 0.2191
pull
Entries 85
Mean 2292
Std Dev 0

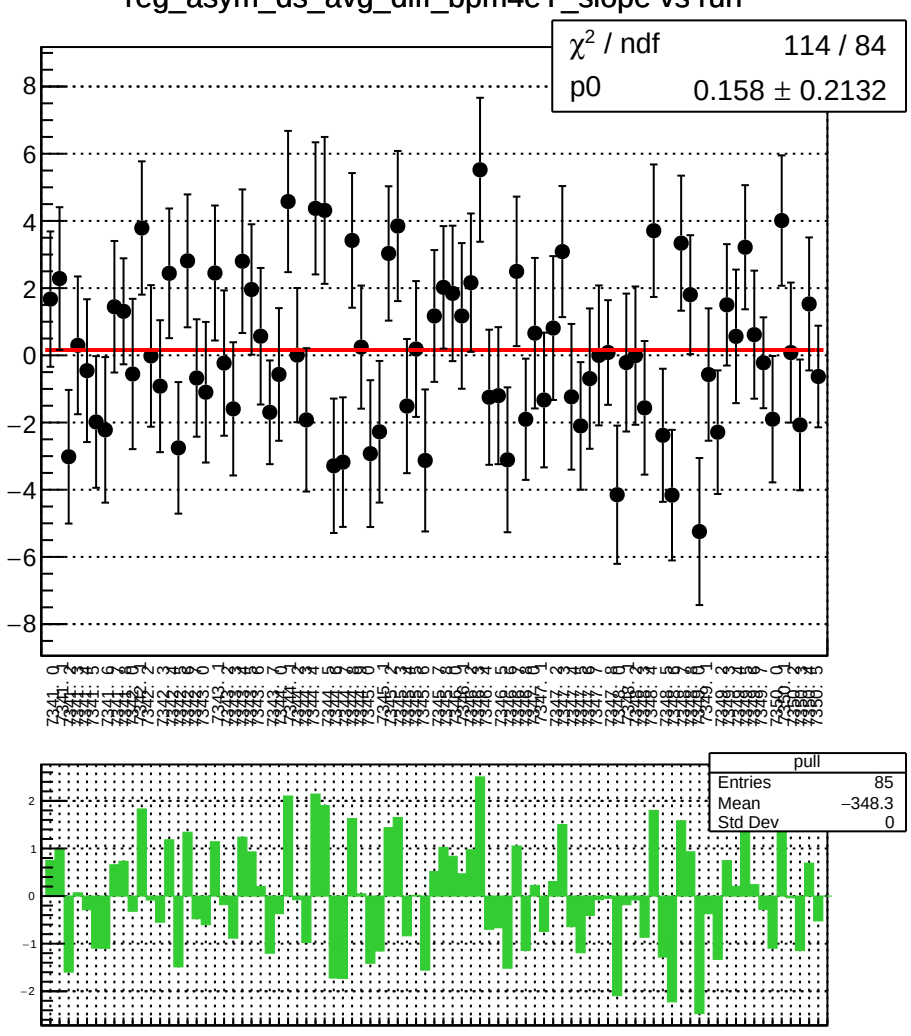

pull1D
Entries 85
Mean 0.001803
Std Dev 1.17

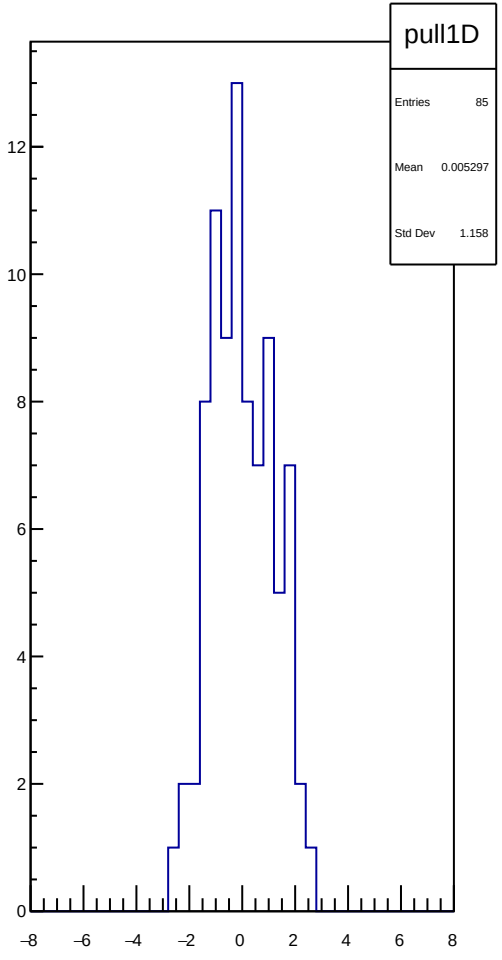

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 110.7 / 84
p0 −0.204 ± 0.1959
pull
Entries 85
Mean −203.9
Std Dev 0

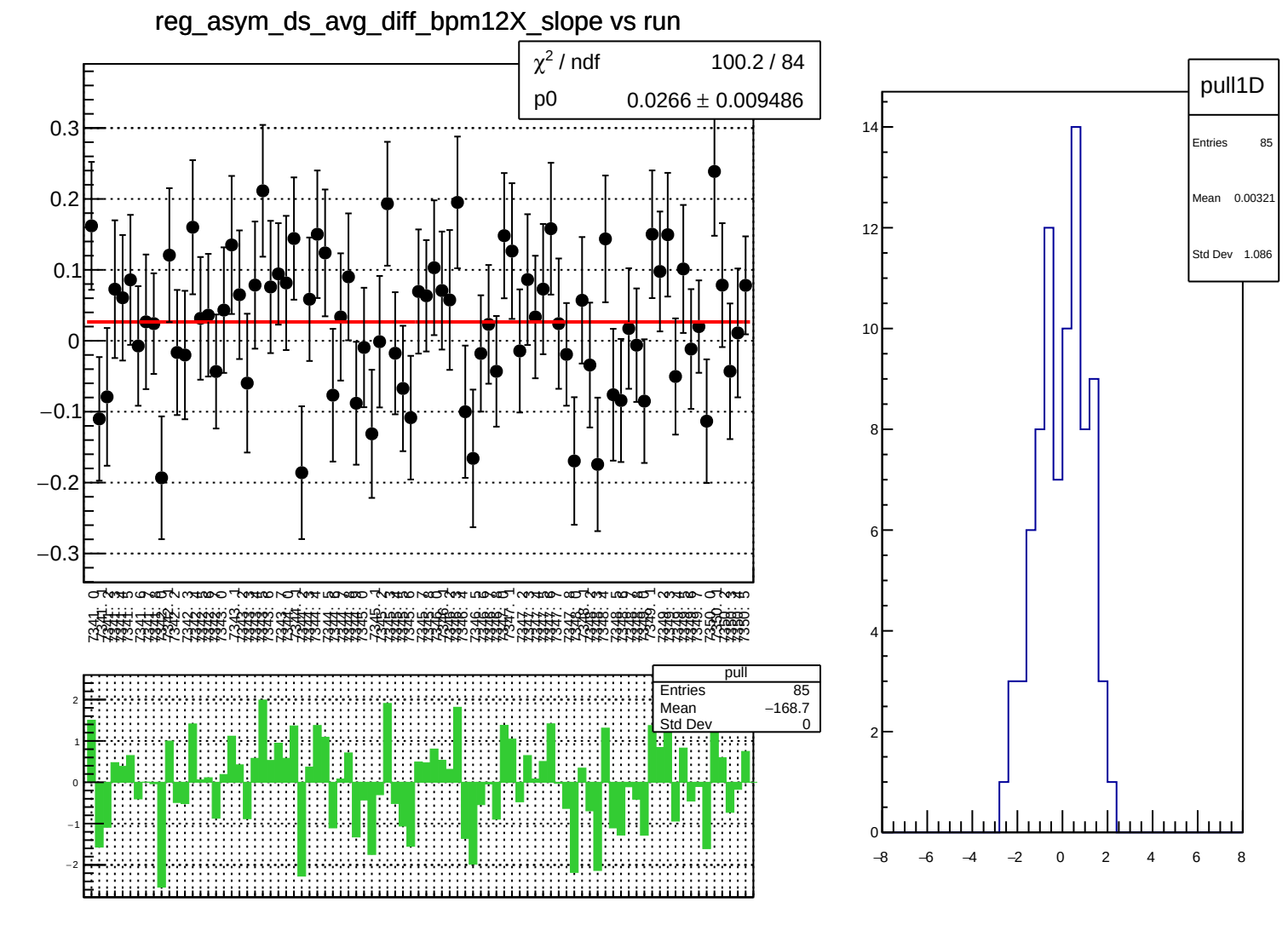

pull1D
Entries 85
Mean −0.0114
Std Dev 1.141

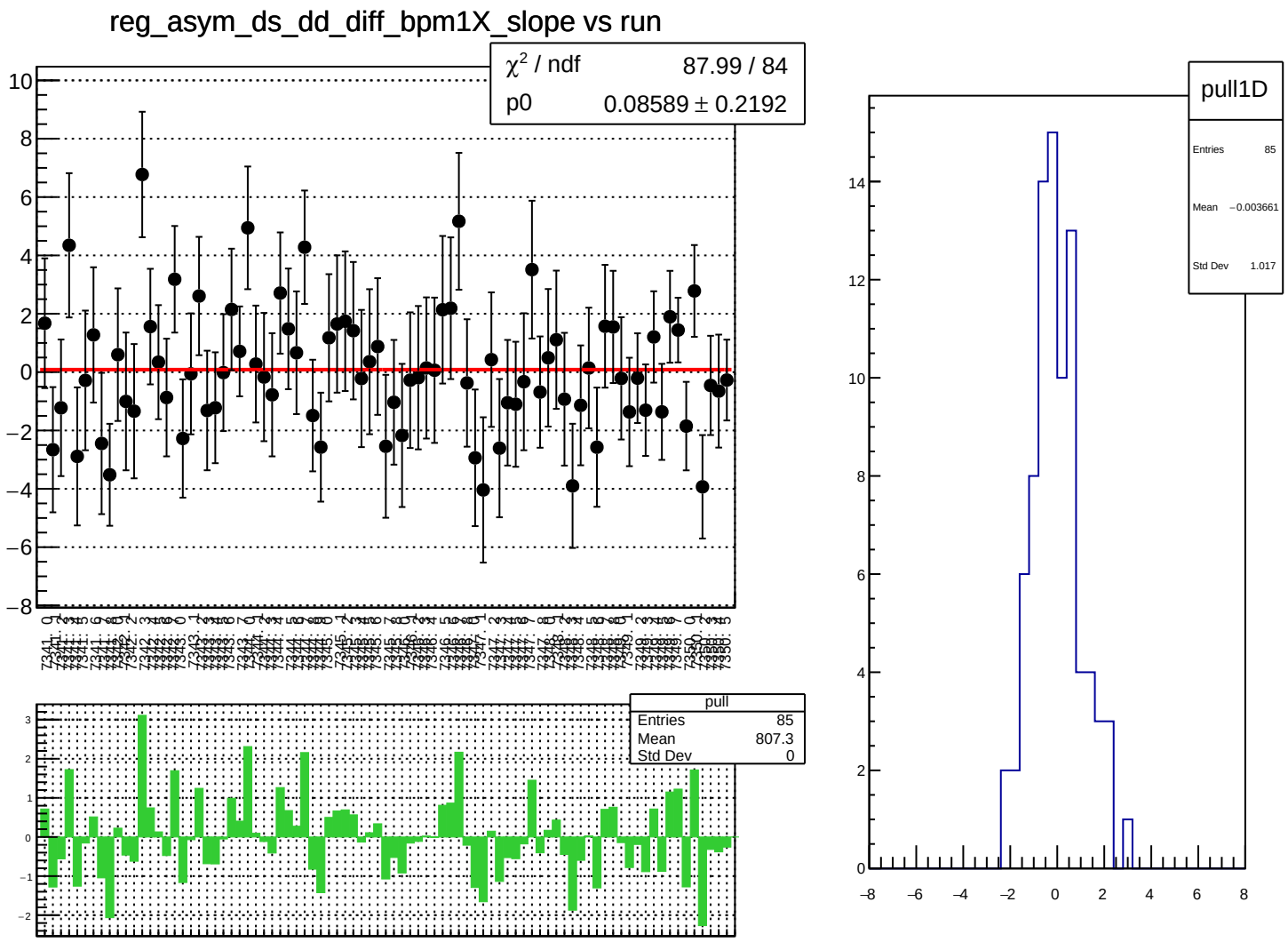

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 108.8 / 84
p0 −0.1262 ± 0.2156
pull
Entries 85
Mean 761.8
Std Dev 0

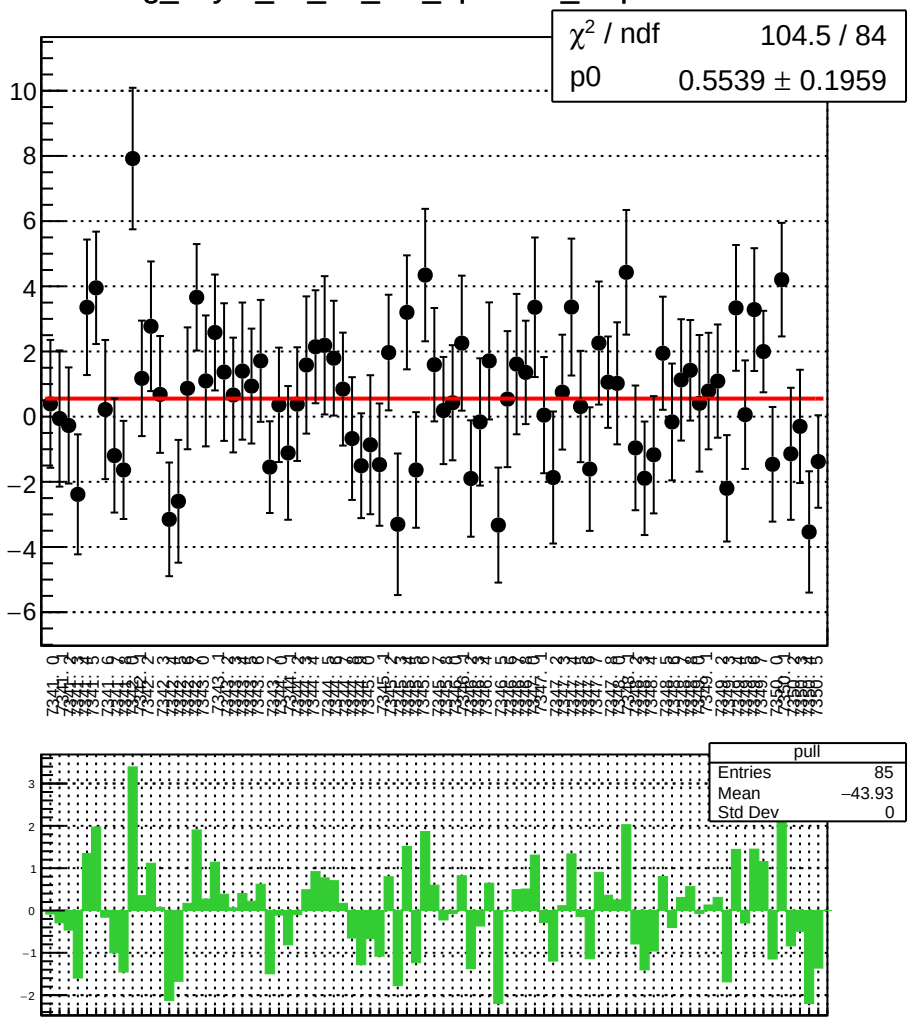

pull1D
Entries 85
Mean −0.004409
Std Dev 1.132

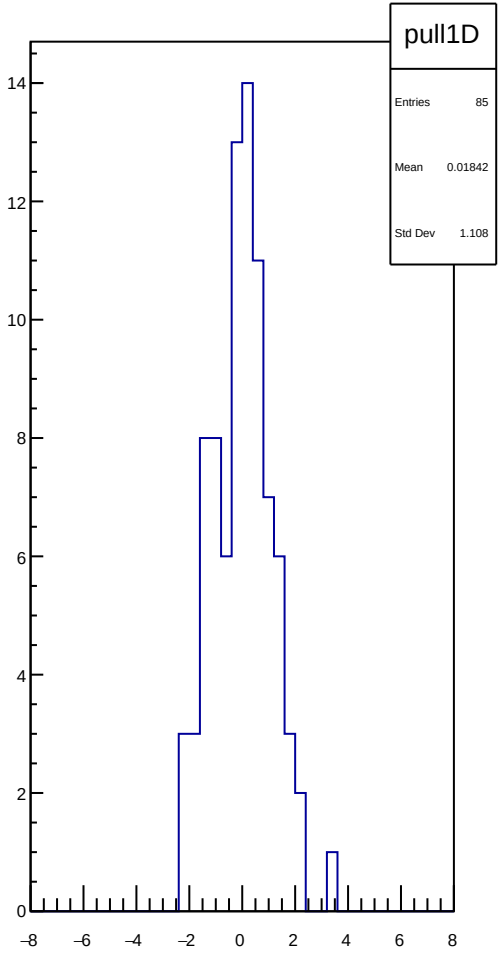

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 114 / 84
p0 0.158 ± 0.2132
pull
Entries 85
Mean −348.3
Std Dev 0

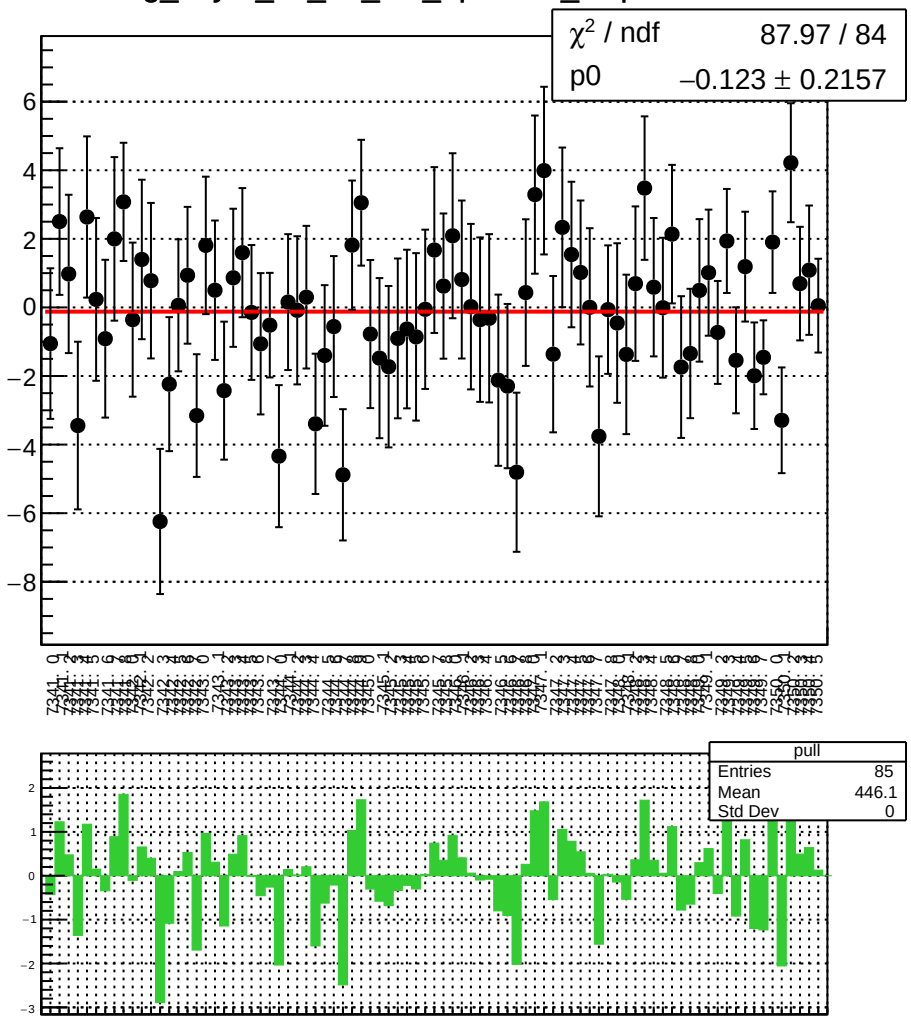

pull1D
Entries 85
Mean 0.005297
Std Dev 1.158

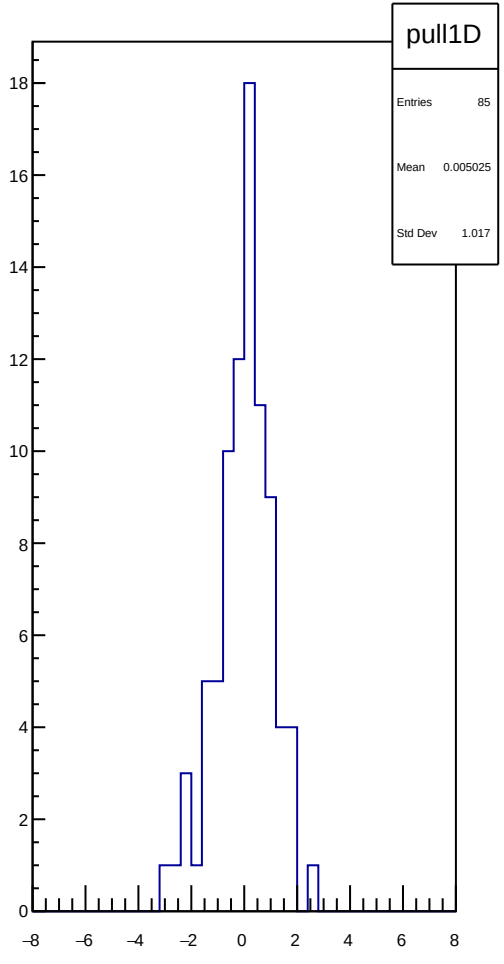

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 100.2 / 84
p0 0.0266 ± 0.009486
pull
Entries 85
Mean −168.7
Std Dev 0
pull1D
Entries 85
Mean 0.00321
Std Dev 1.086

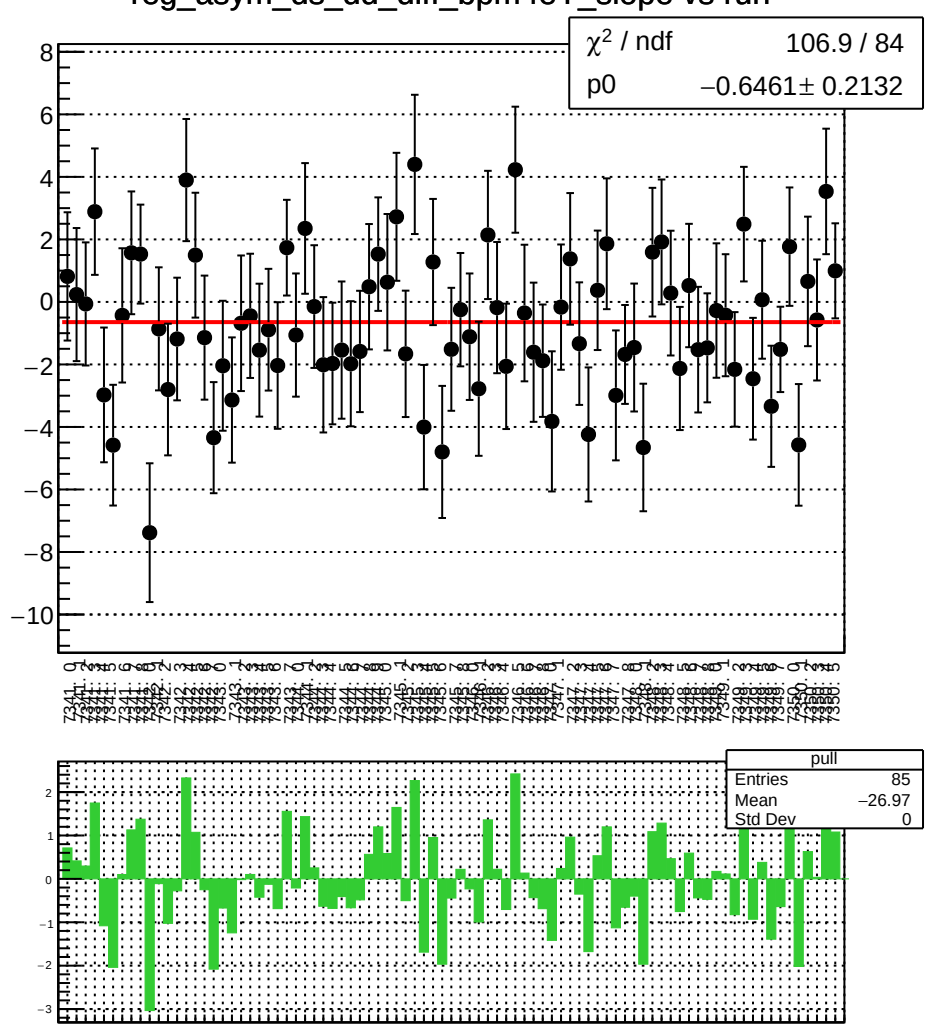

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 87.99 / 84
p0 0.08589 ± 0.2192
pull
Entries 85
Mean 807.3
Std Dev 0
pull1D
Entries 85
Mean −0.003661
Std Dev 1.017

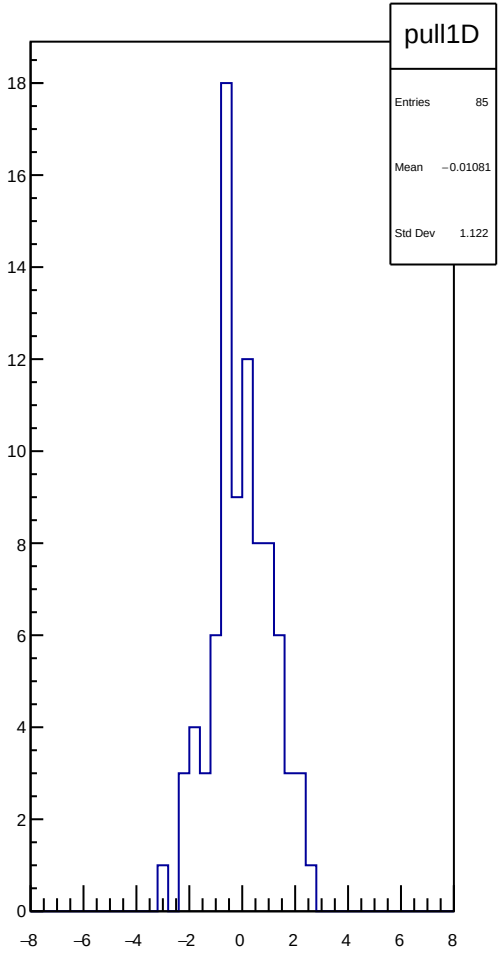

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 104.5 / 84
p0 0.5539 ± 0.1959
pull
Entries 85
Mean −43.93
Std Dev 0

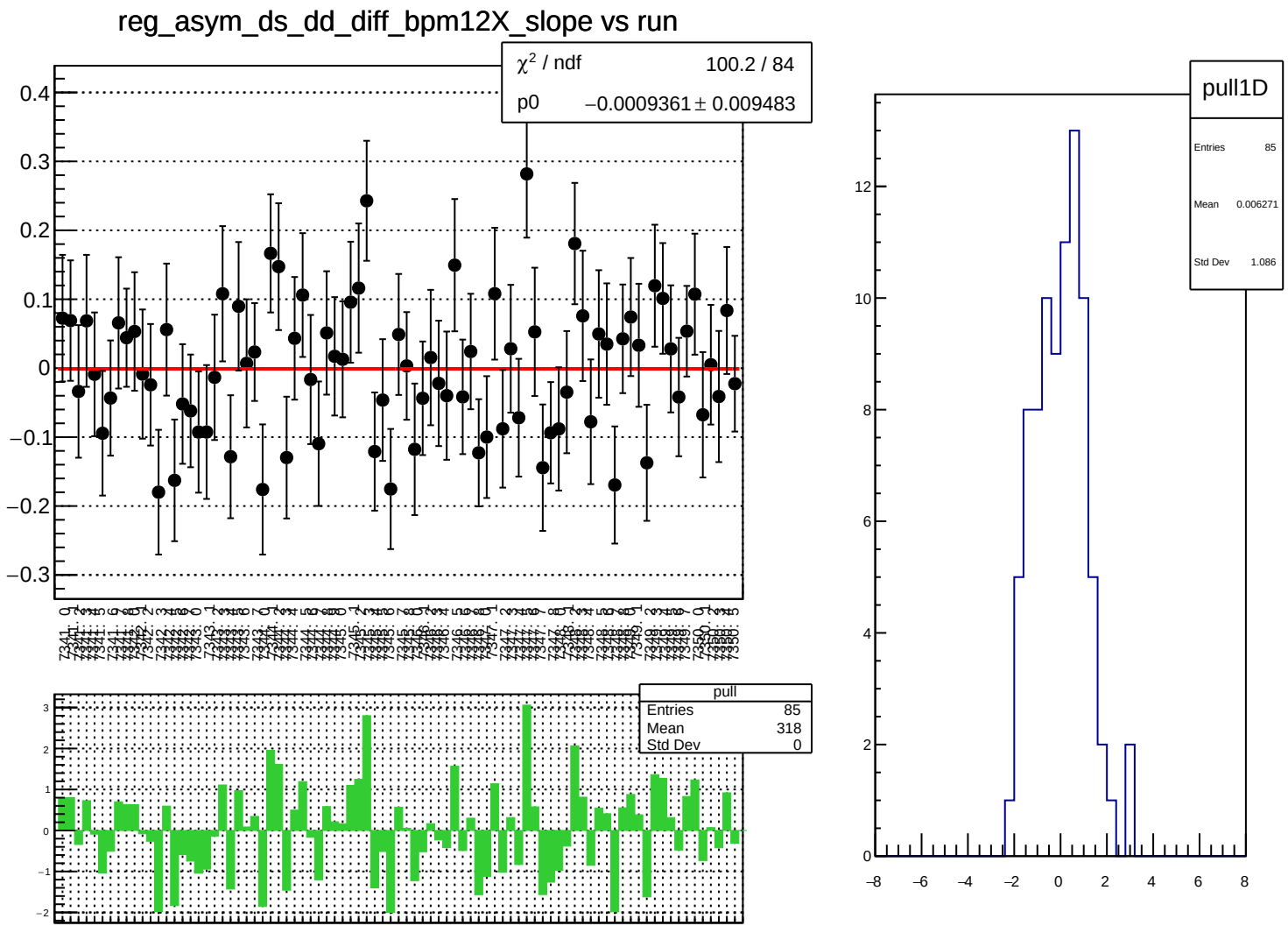

pull1D
Entries 85
Mean 0.01842
Std Dev 1.108

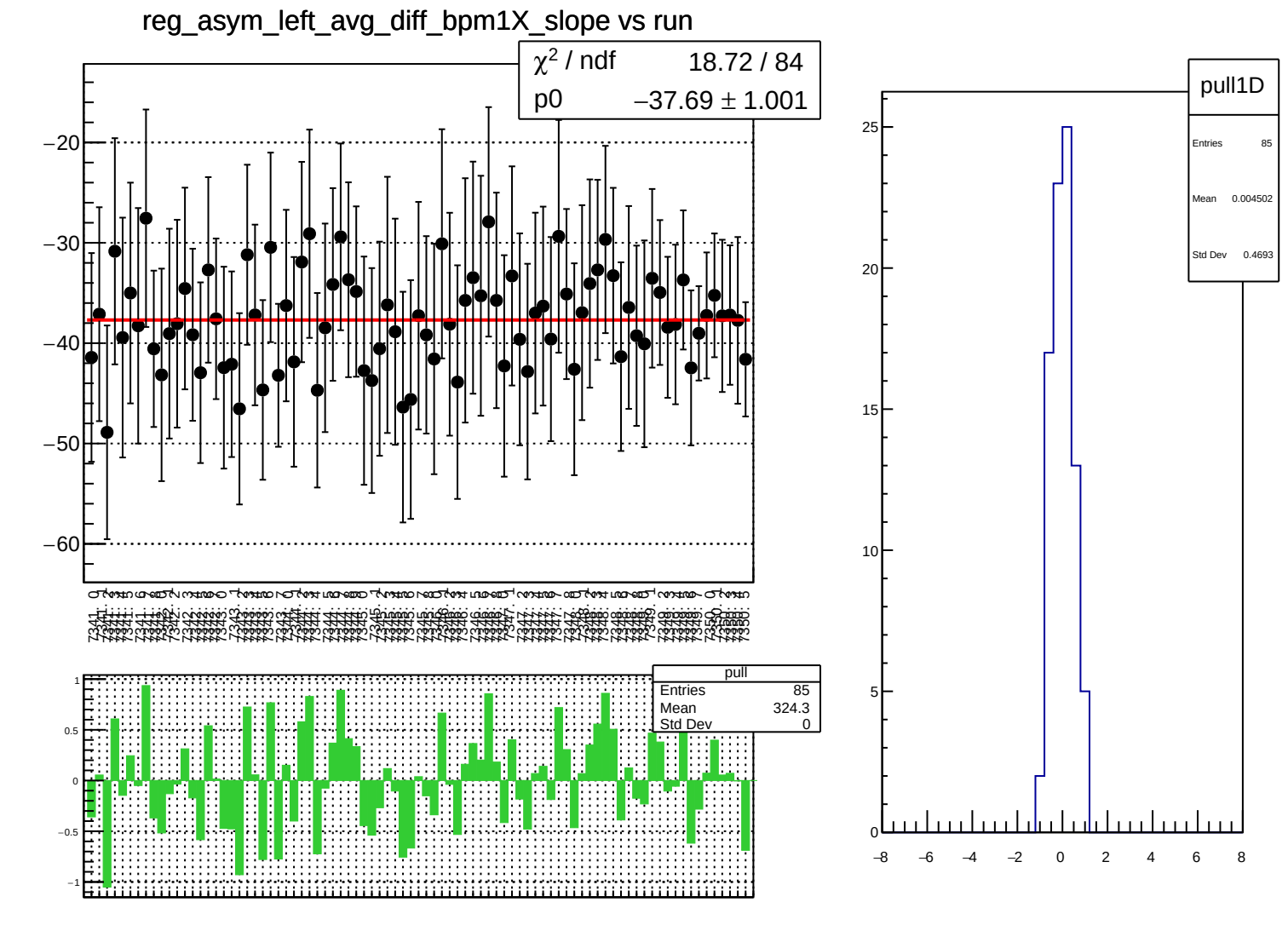

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.97 / 84
p0 −0.123 ± 0.2157
pull
Entries 85
Mean 446.1
Std Dev 0

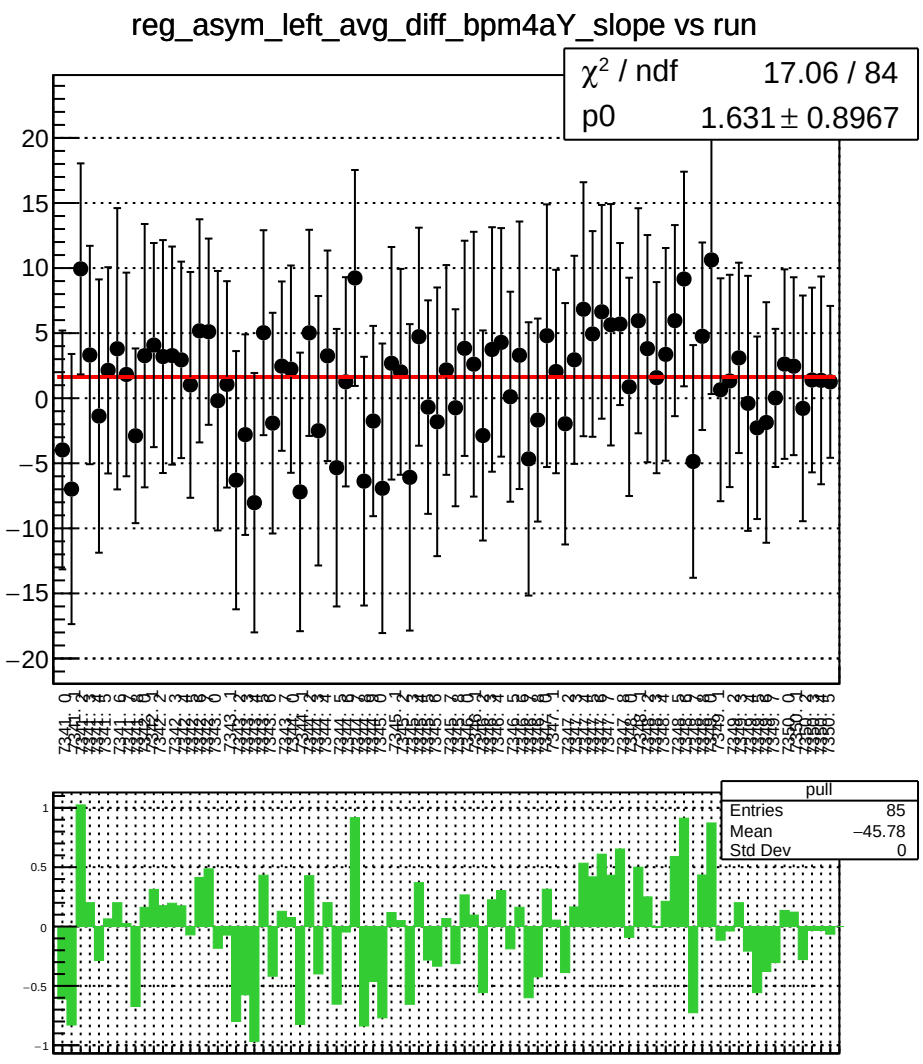

pull1D
Entries 85
Mean 0.005025
Std Dev 1.017

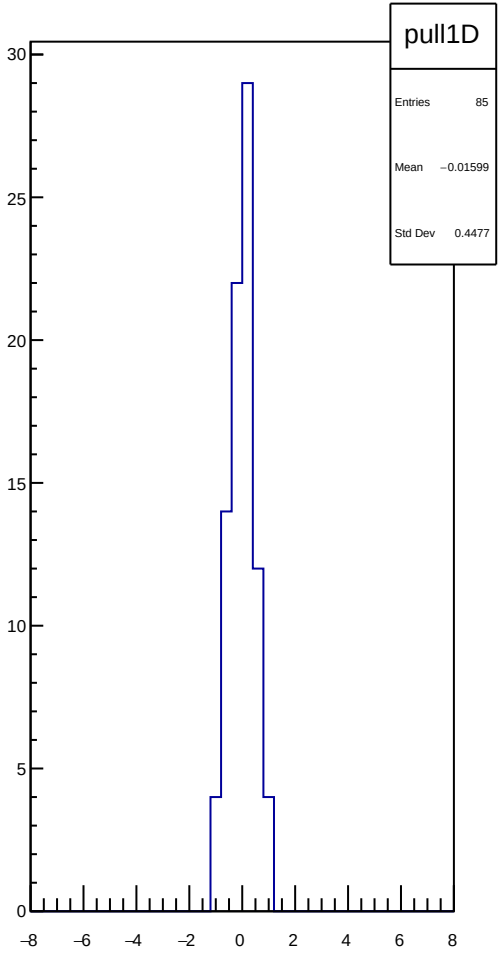

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 106.9 / 84
p0 −0.6461± 0.2132
pull
Entries 85
Mean −26.97
Std Dev 0

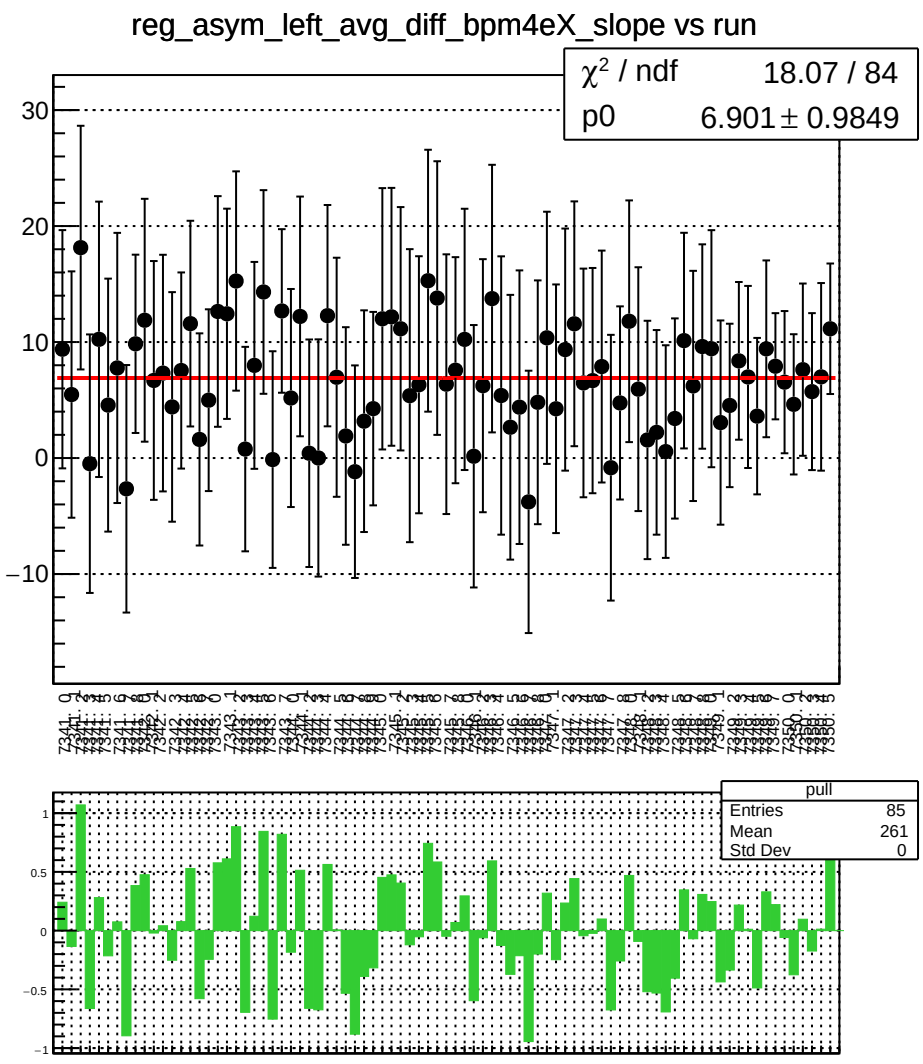

pull1D
Entries 85
Mean −0.01081
Std Dev 1.122

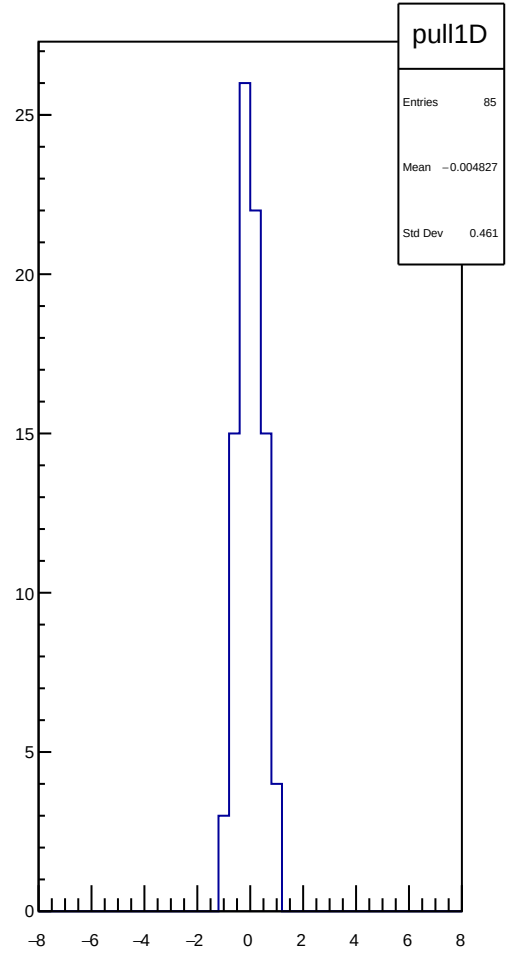

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 100.2 / 84
p0 −0.0009361 ± 0.009483
pull
Entries 85
Mean 318
Std Dev 0
pull1D
Entries 85
Mean 0.006271
Std Dev 1.086

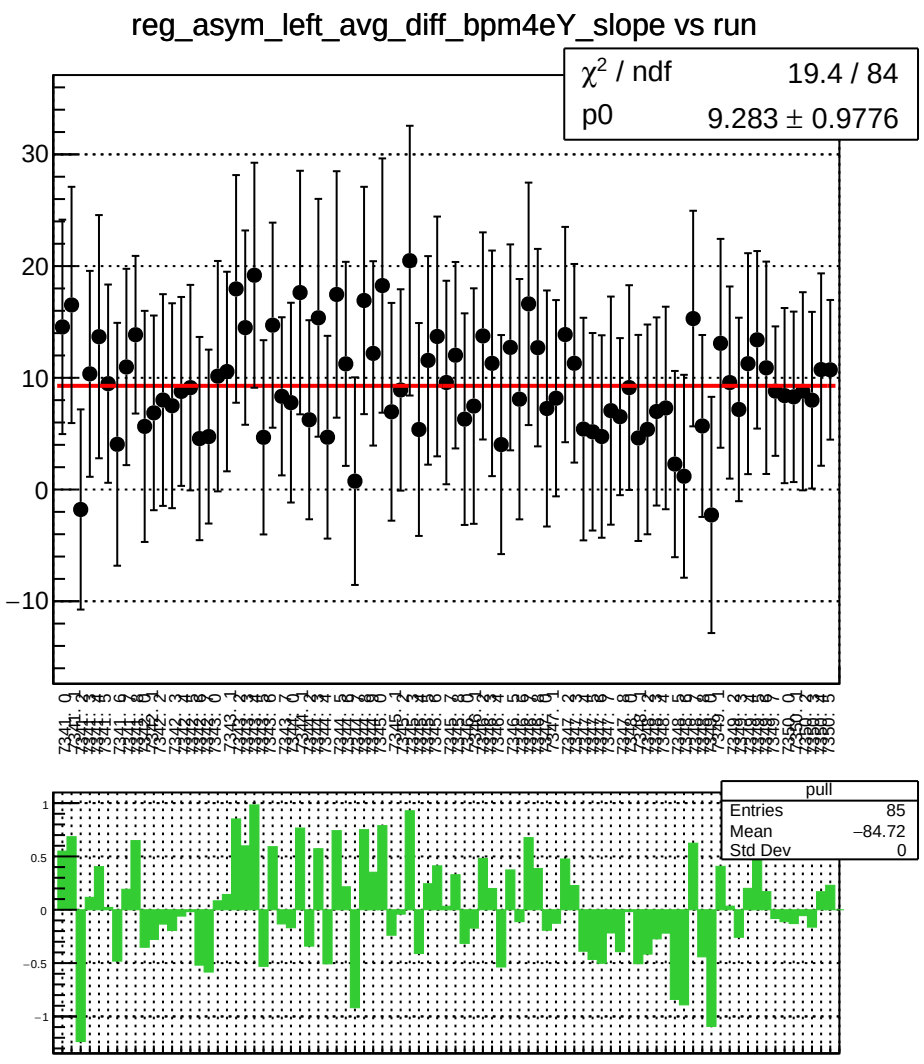

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 18.72 / 84
p0 −37.69 ± 1.001
pull
Entries 85
Mean 324.3
Std Dev 0
pull1D
Entries 85
Mean 0.004502
Std Dev 0.4693

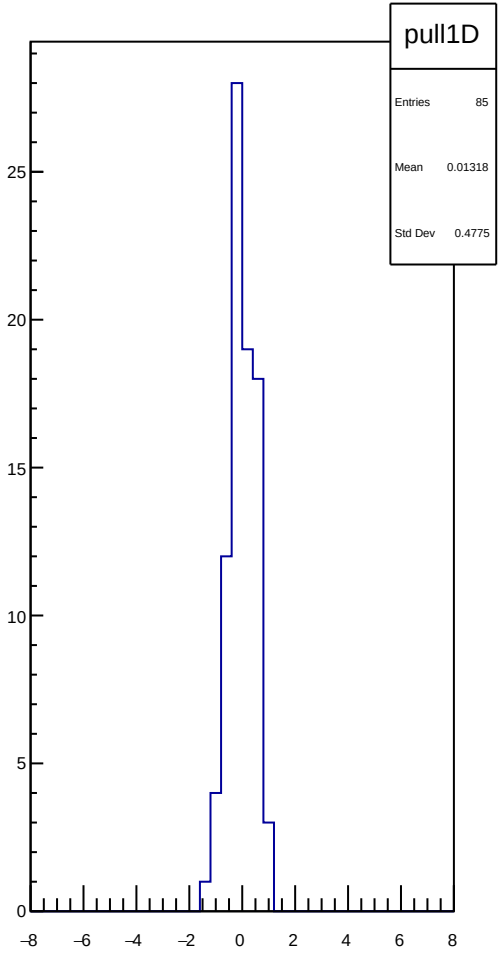

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.06 / 84
p0 1.631 ± 0.8967
pull
Entries 85
Mean −45.78
Std Dev 0

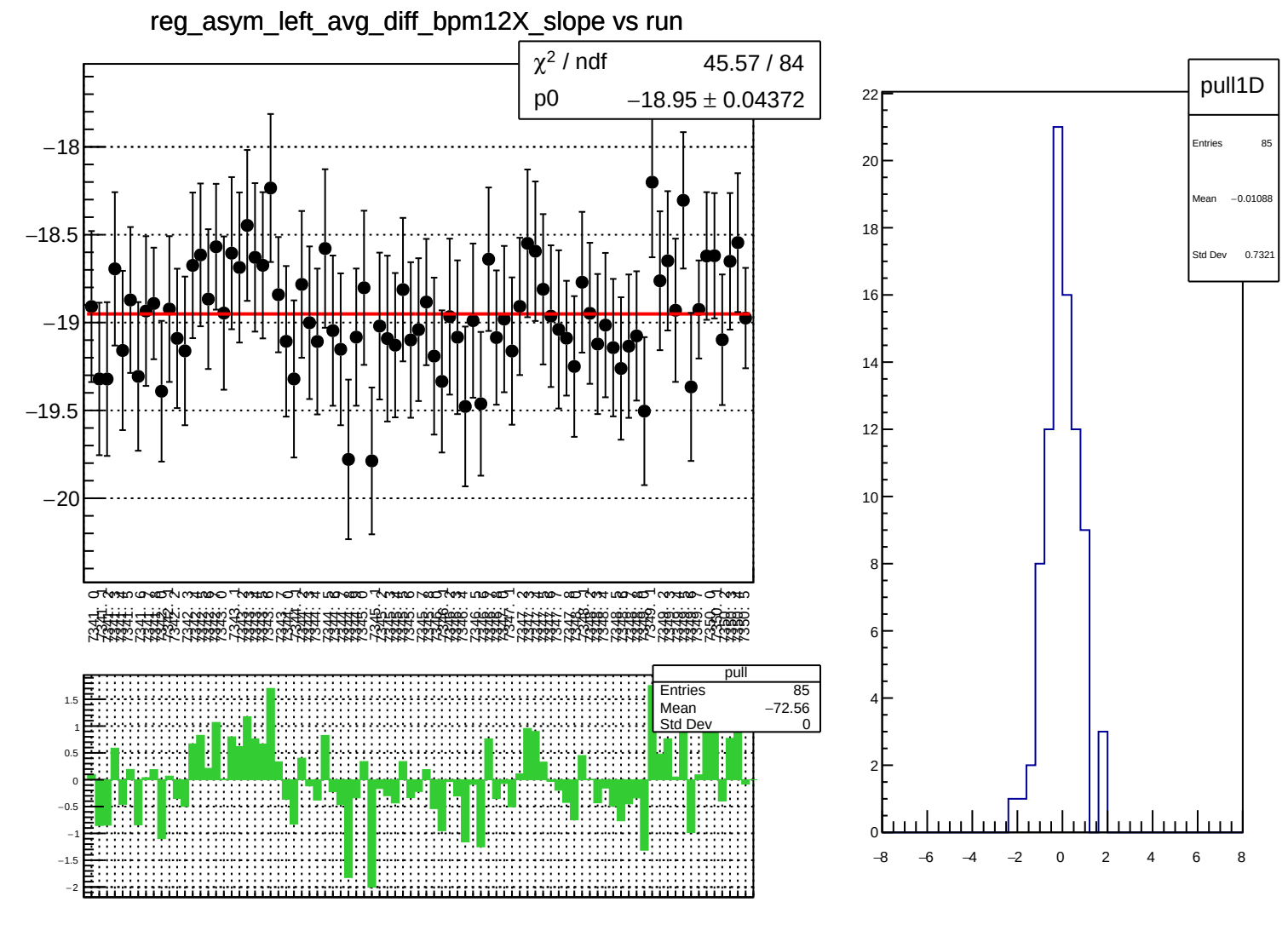

pull1D
Entries 85
Mean −0.01599
Std Dev 0.4477

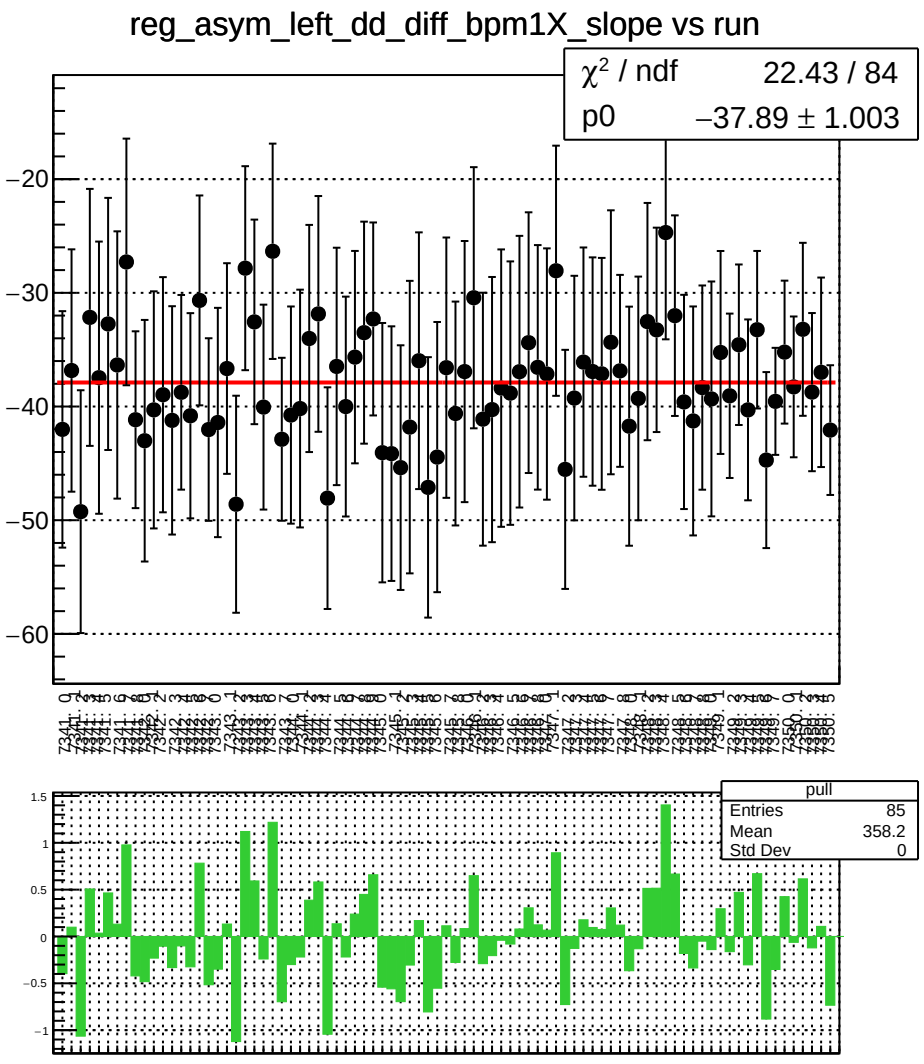

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.07 / 84
p0 6.901 ± 0.9849
pull
Entries 85
Mean 261
Std Dev 0

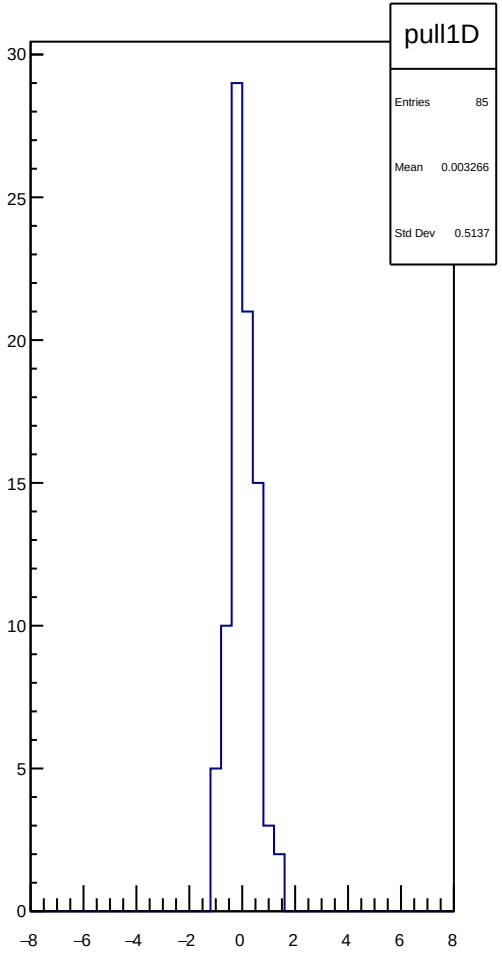

pull1D
Entries 85
Mean −0.004827
Std Dev 0.461

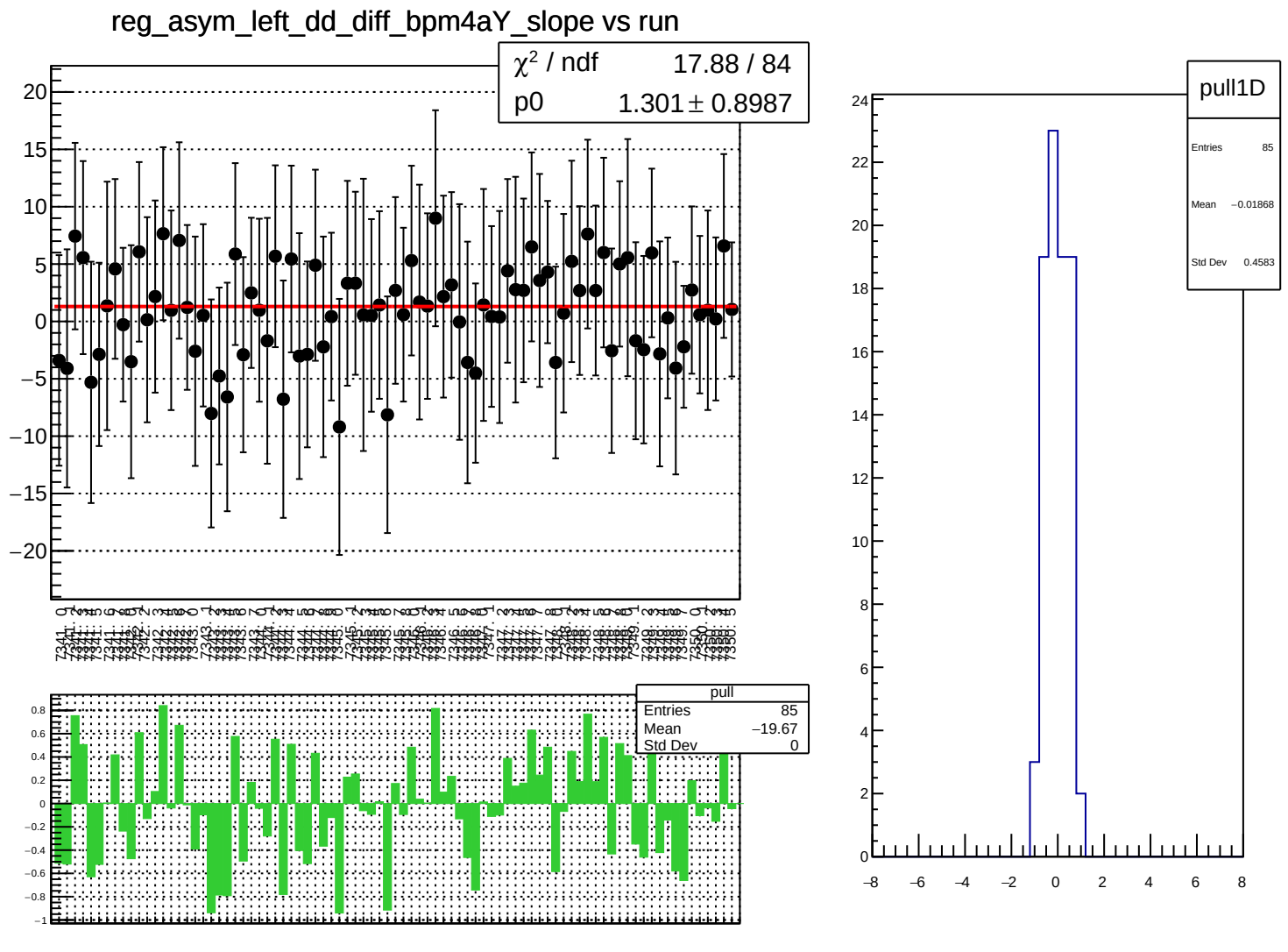

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.4 / 84
p0 9.283 ± 0.9776
pull
Entries 85
Mean −84.72
Std Dev 0

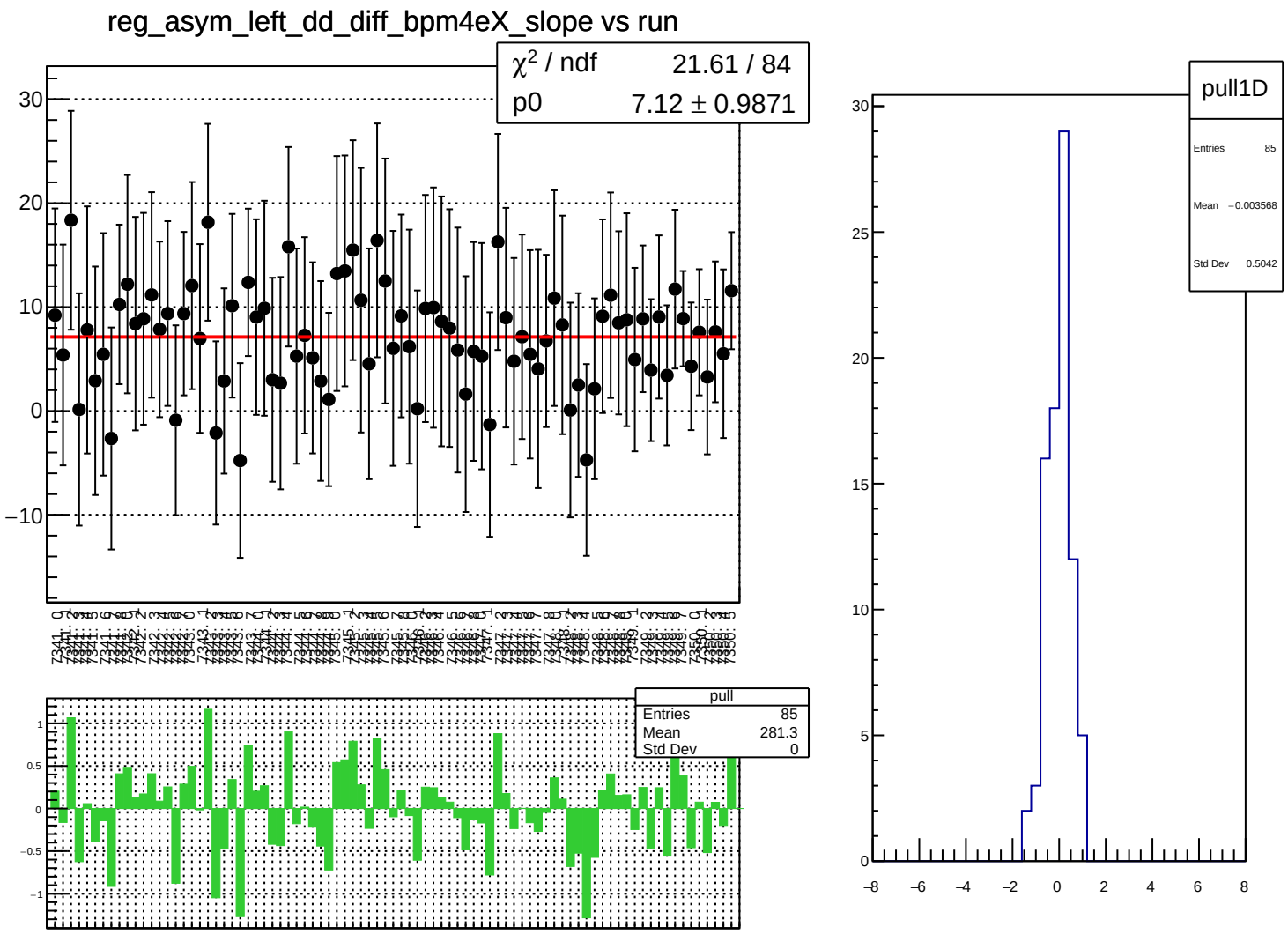

pull1D
Entries 85
Mean 0.01318
Std Dev 0.4775

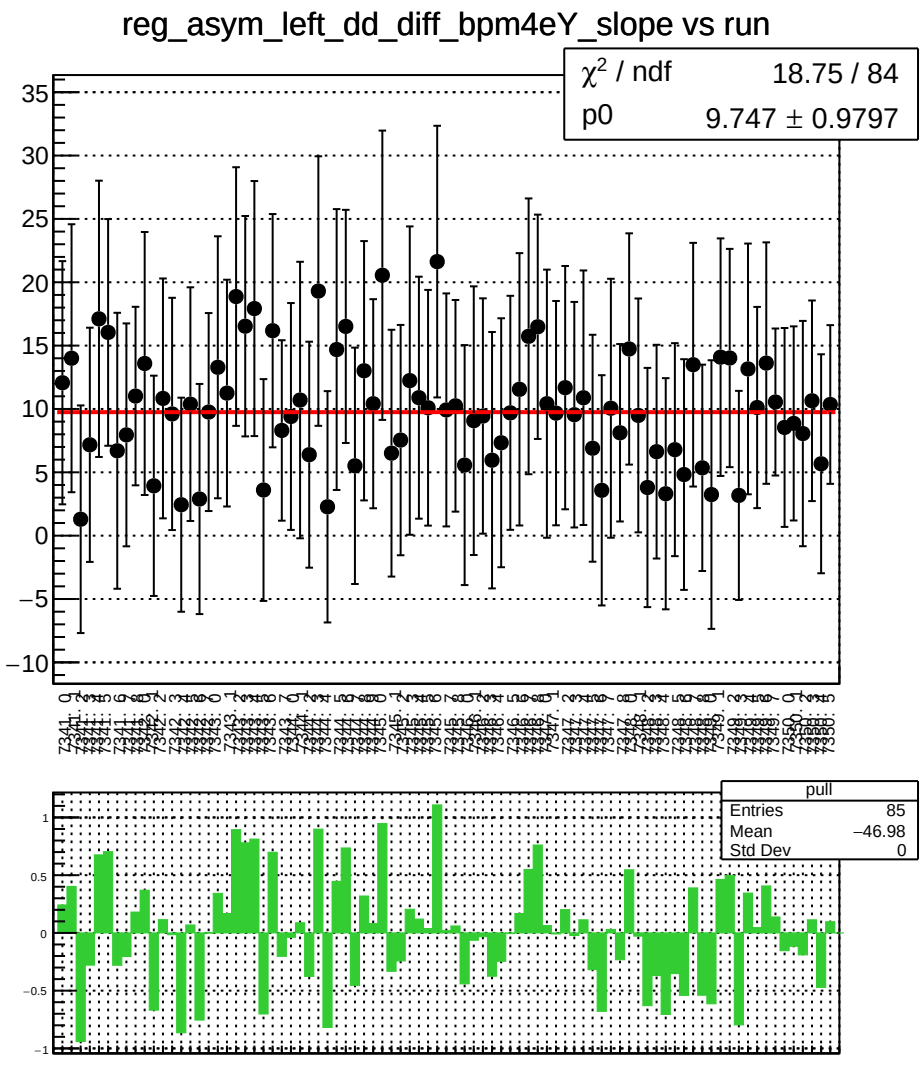

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 45.57 / 84
p0 −18.95 ± 0.04372
pull
Entries 85
Mean −72.56
Std Dev 0
pull1D
Entries 85
Mean −0.01088
Std Dev 0.7321

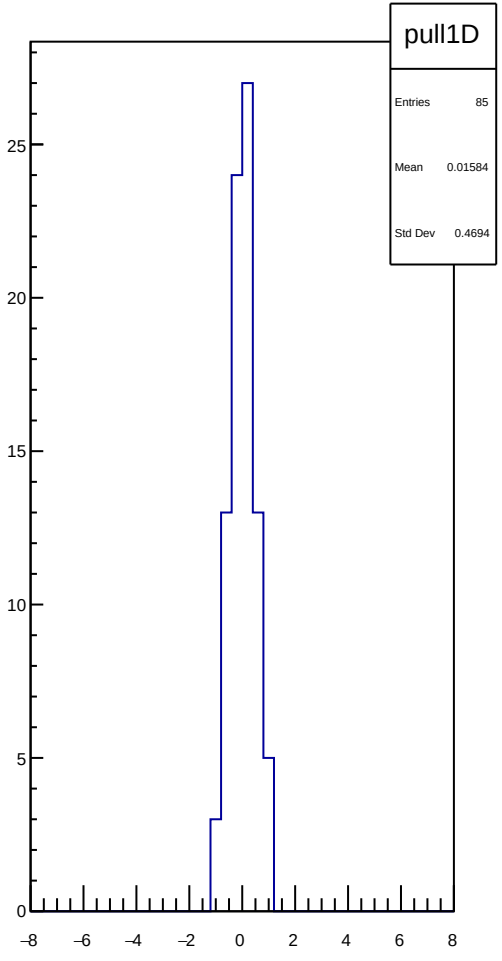

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 22.43 / 84
p0 −37.89 ± 1.003
pull
Entries 85
Mean 358.2
Std Dev 0

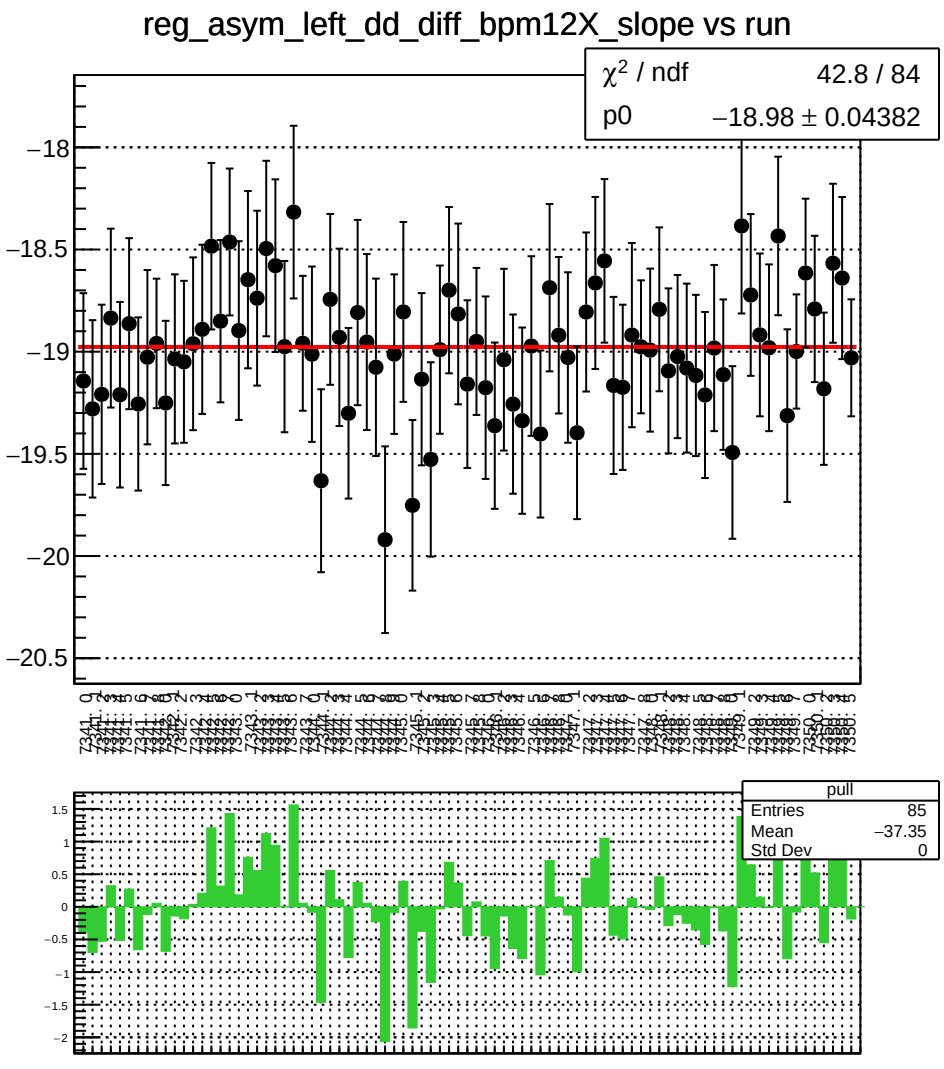

pull1D
Entries 85
Mean 0.003266
Std Dev 0.5137

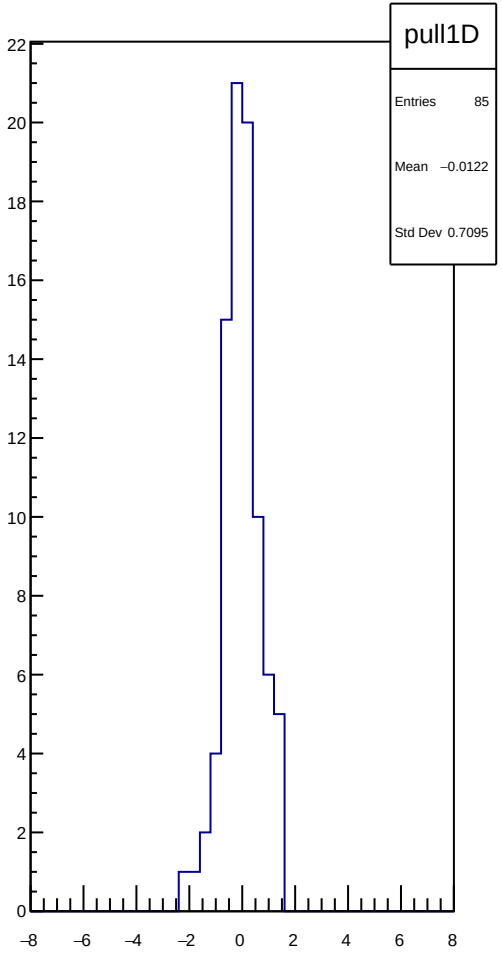

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.88 / 84
p0 1.301 ± 0.8987
pull
Entries 85
Mean −19.67
Std Dev 0
pull1D
Entries 85
Mean −0.01868
Std Dev 0.4583

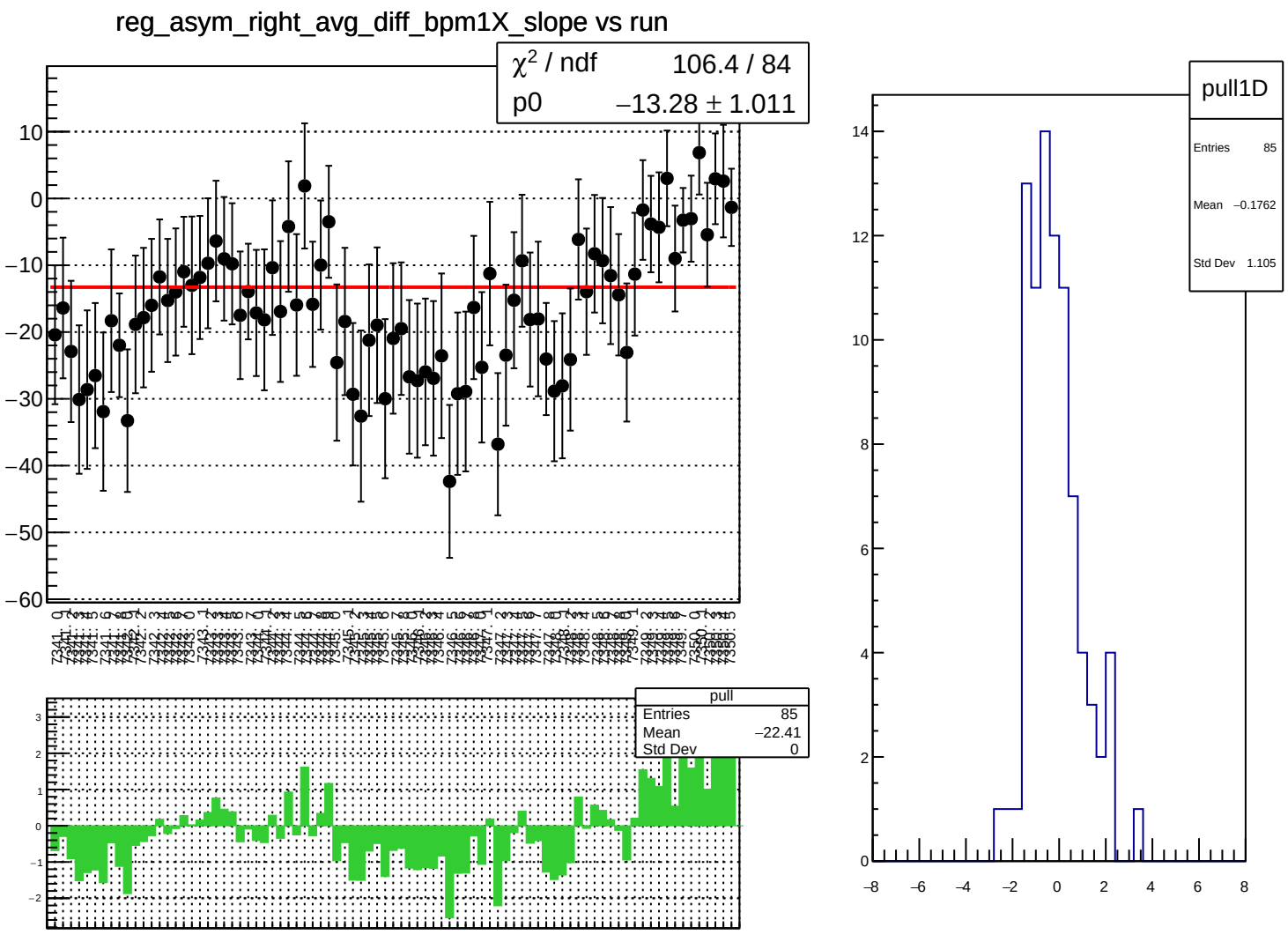

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.61 / 84
p0 7.12 ± 0.9871
pull
Entries 85
Mean 281.3
Std Dev 0
pull1D
Entries 85
Mean −0.003568
Std Dev 0.5042

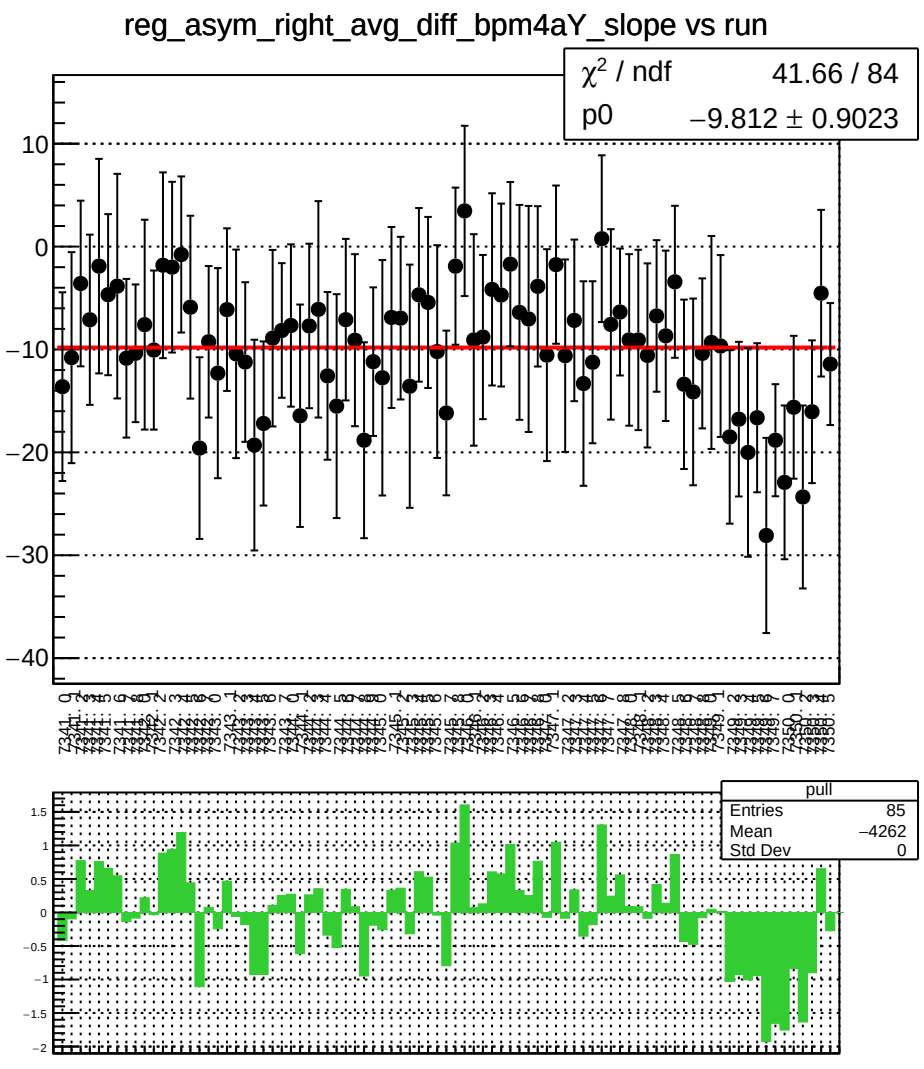

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.75 / 84
p0 9.747 ± 0.9797
pull
Entries 85
Mean −46.98
Std Dev 0

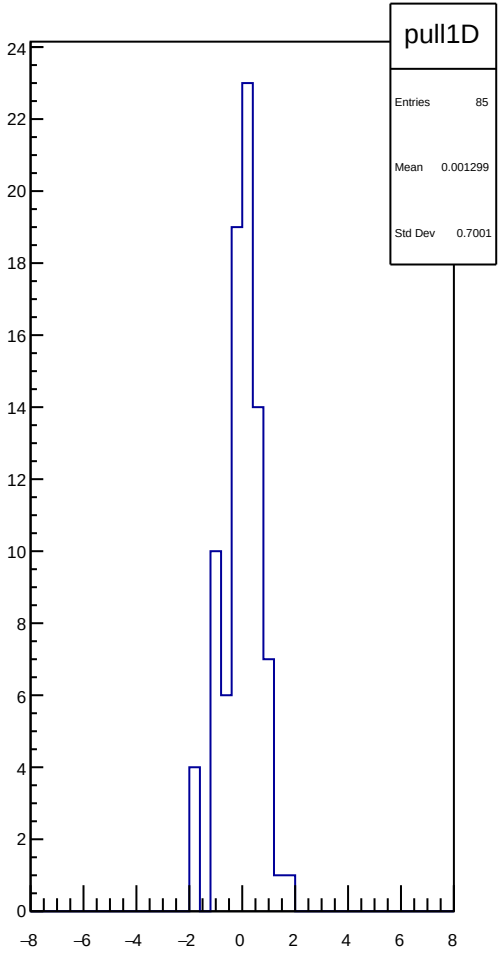

pull1D
Entries 85
Mean 0.01584
Std Dev 0.4694

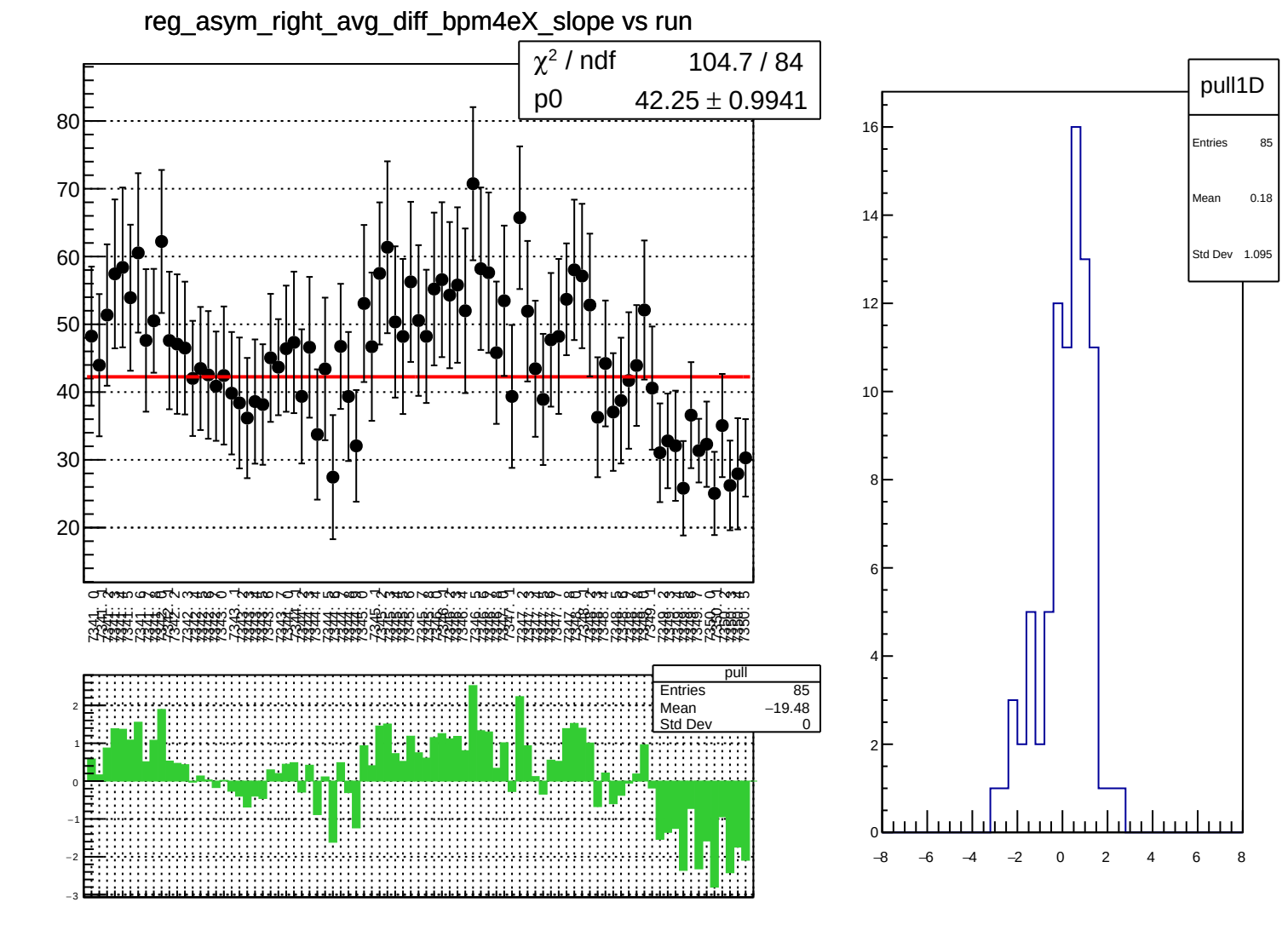

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 42.8 / 84
p0 −18.98 ± 0.04382
pull
Entries 85
Mean −37.35
Std Dev 0

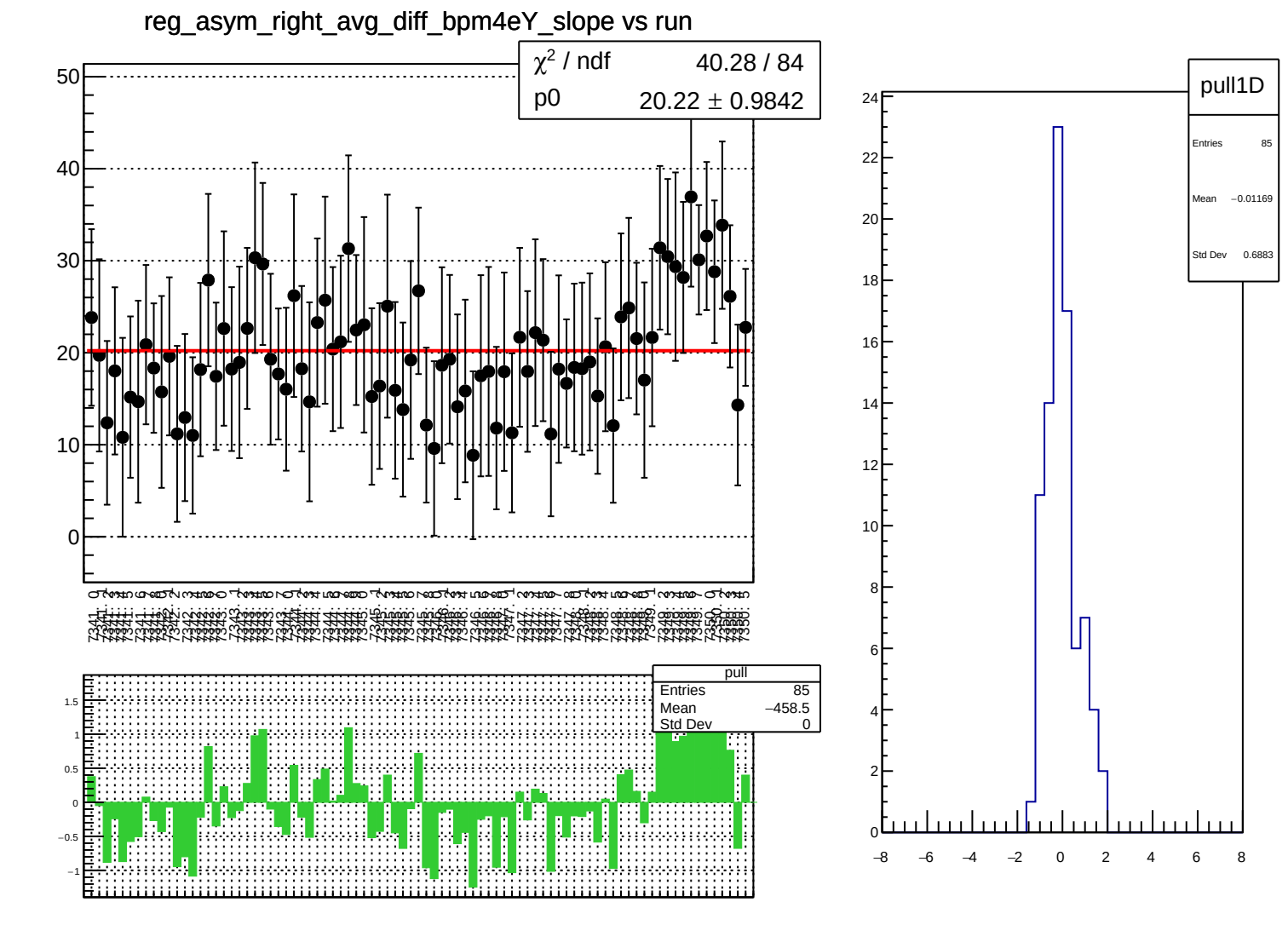

pull1D
Entries 85
Mean −0.0122
Std Dev 0.7095

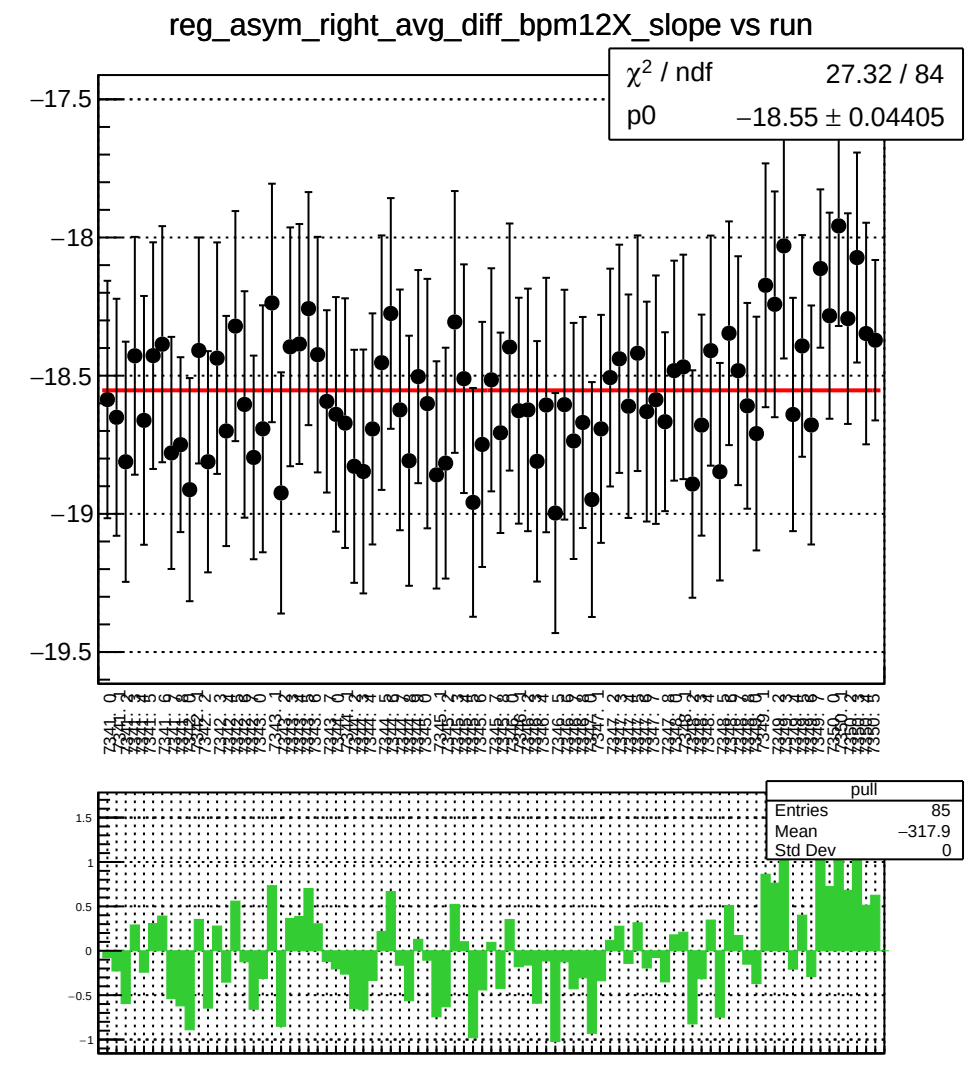

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 106.4 / 84
p0 −13.28 ± 1.011
pull
Entries 85
Mean −22.41
Std Dev 0
pull1D
Entries 85
Mean −0.1762
Std Dev 1.105

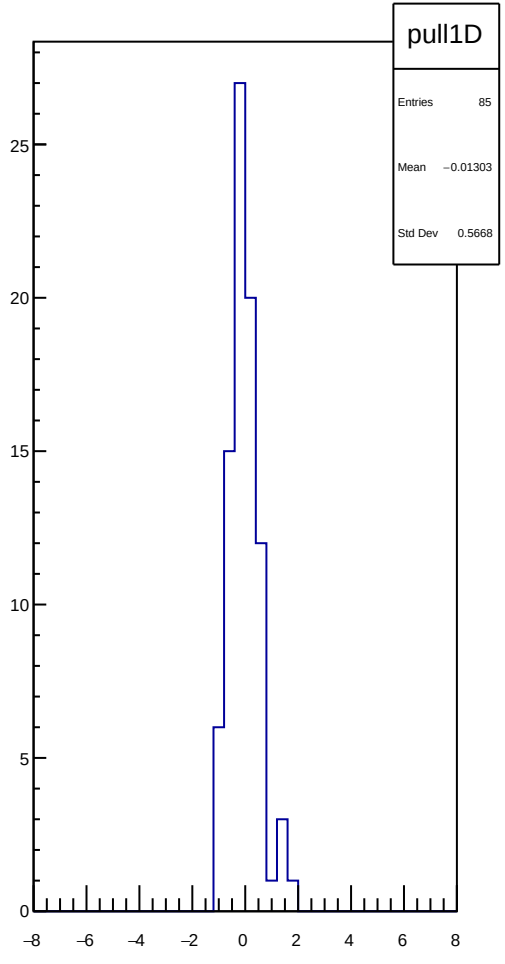

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.66 / 84
p0 −9.812 ± 0.9023
pull
Entries 85
Mean −4262
Std Dev 0

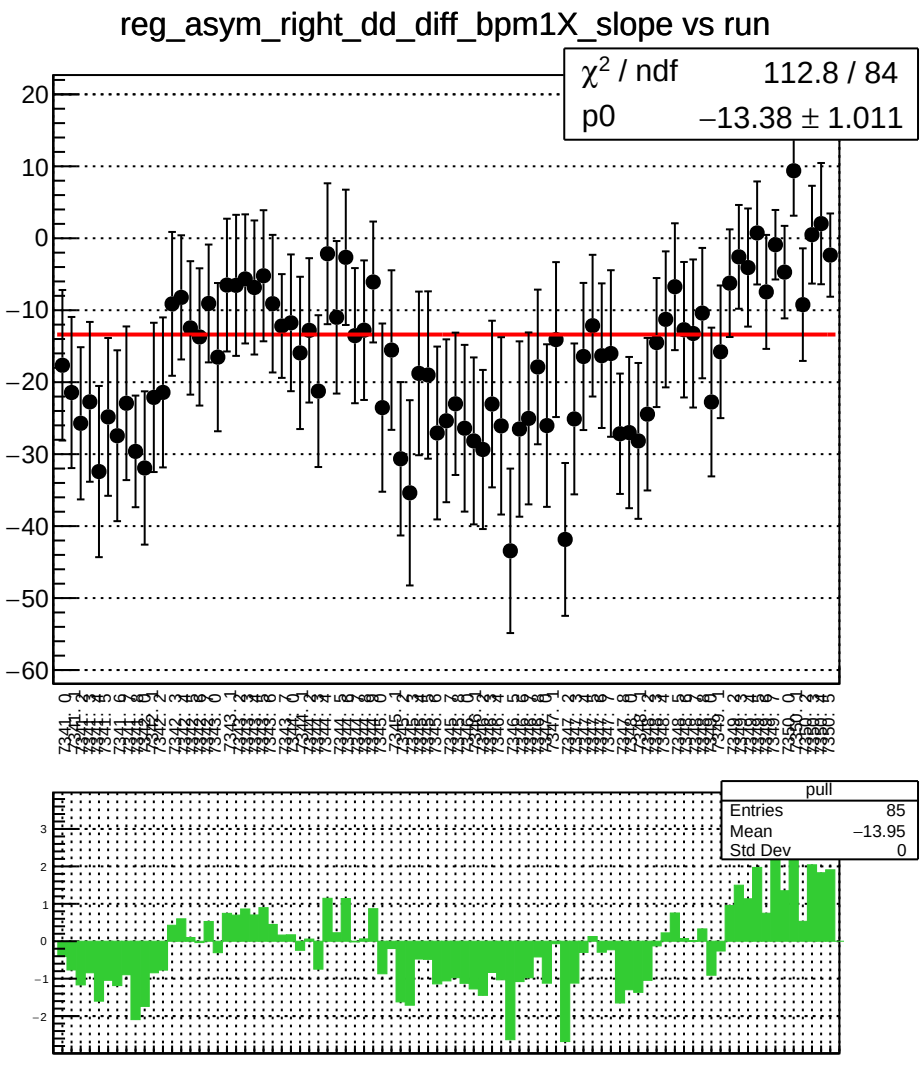

pull1D
Entries 85
Mean 0.001299
Std Dev 0.7001

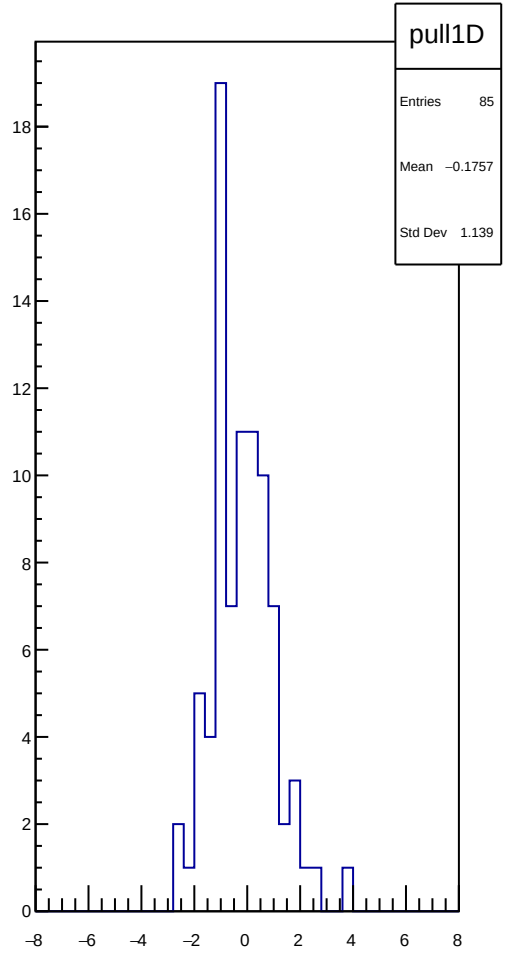

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.7 / 84
p0 42.25 ± 0.9941
pull
Entries 85
Mean −19.48
Std Dev 0
pull1D
Entries 85
Mean 0.18
Std Dev 1.095

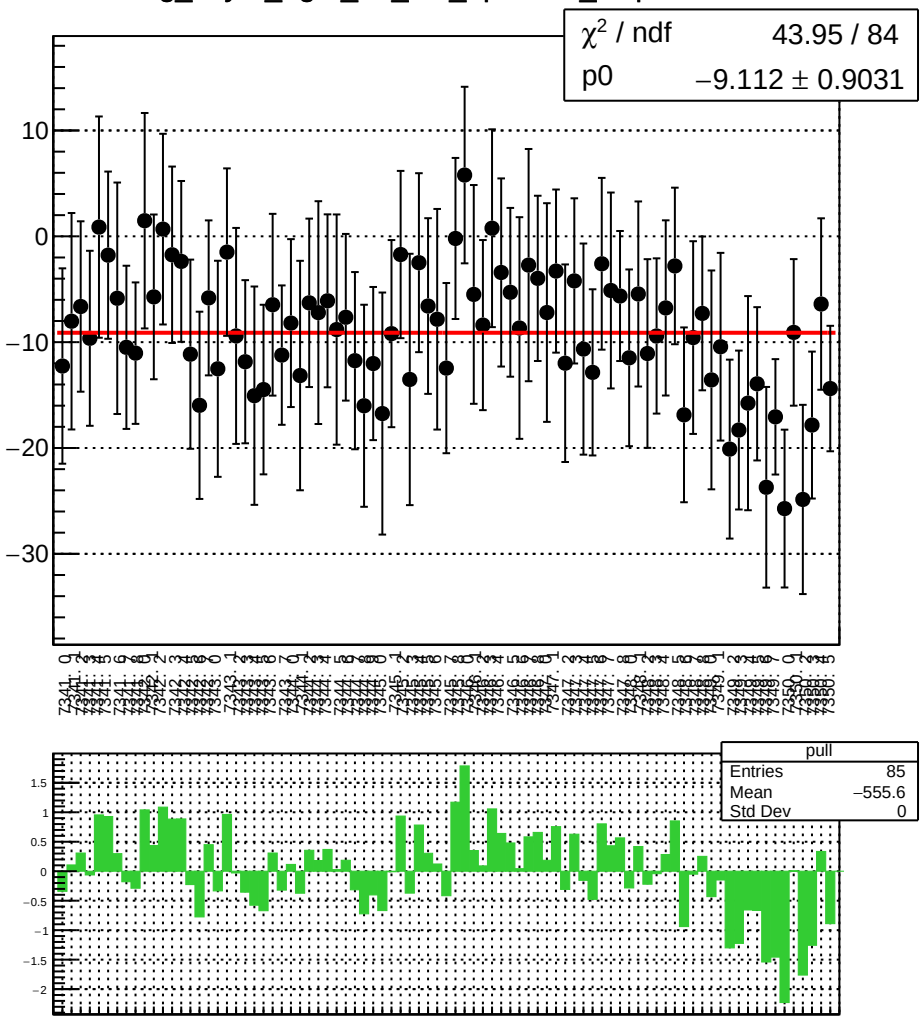

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.28 / 84
p0 20.22 ± 0.9842
pull
Entries 85
Mean −458.5
Std Dev 0
pull1D
Entries 85
Mean −0.01169
Std Dev 0.6883

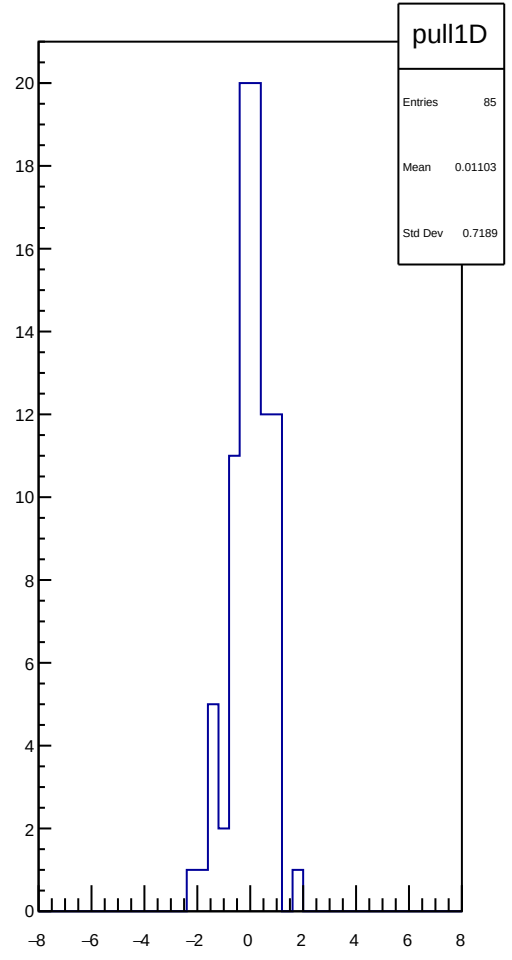

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 27.32 / 84
p0 −18.55 ± 0.04405
−17.5
−18
−18.5
−19
−19.5
pull
Entries 85
Mean −317.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

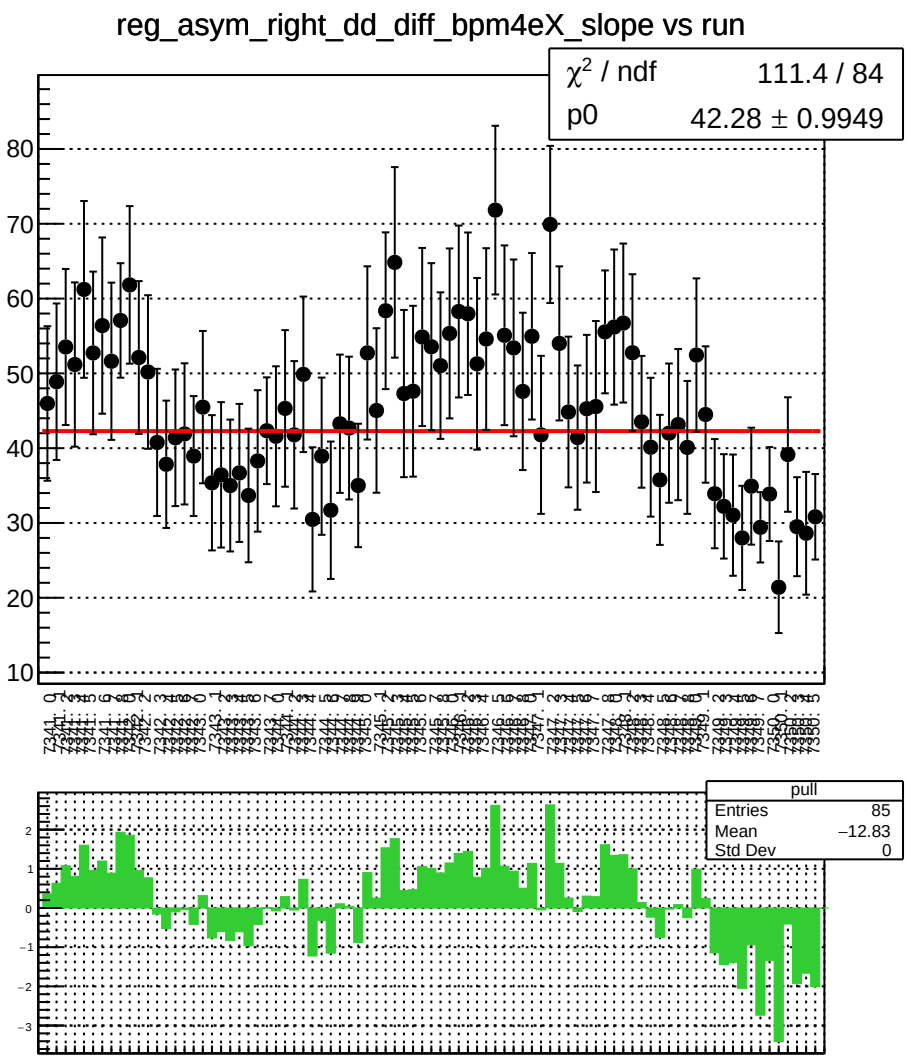

pull1D
Entries 85
Mean −0.01303
Std Dev 0.5668
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

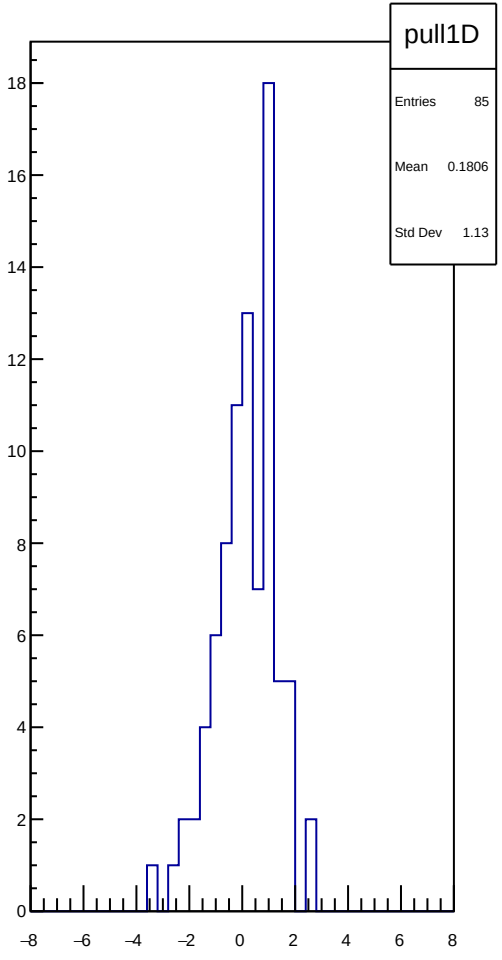

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 112.8 / 84
p0 −13.38 ± 1.011
pull
Entries 85
Mean −13.95
Std Dev 0

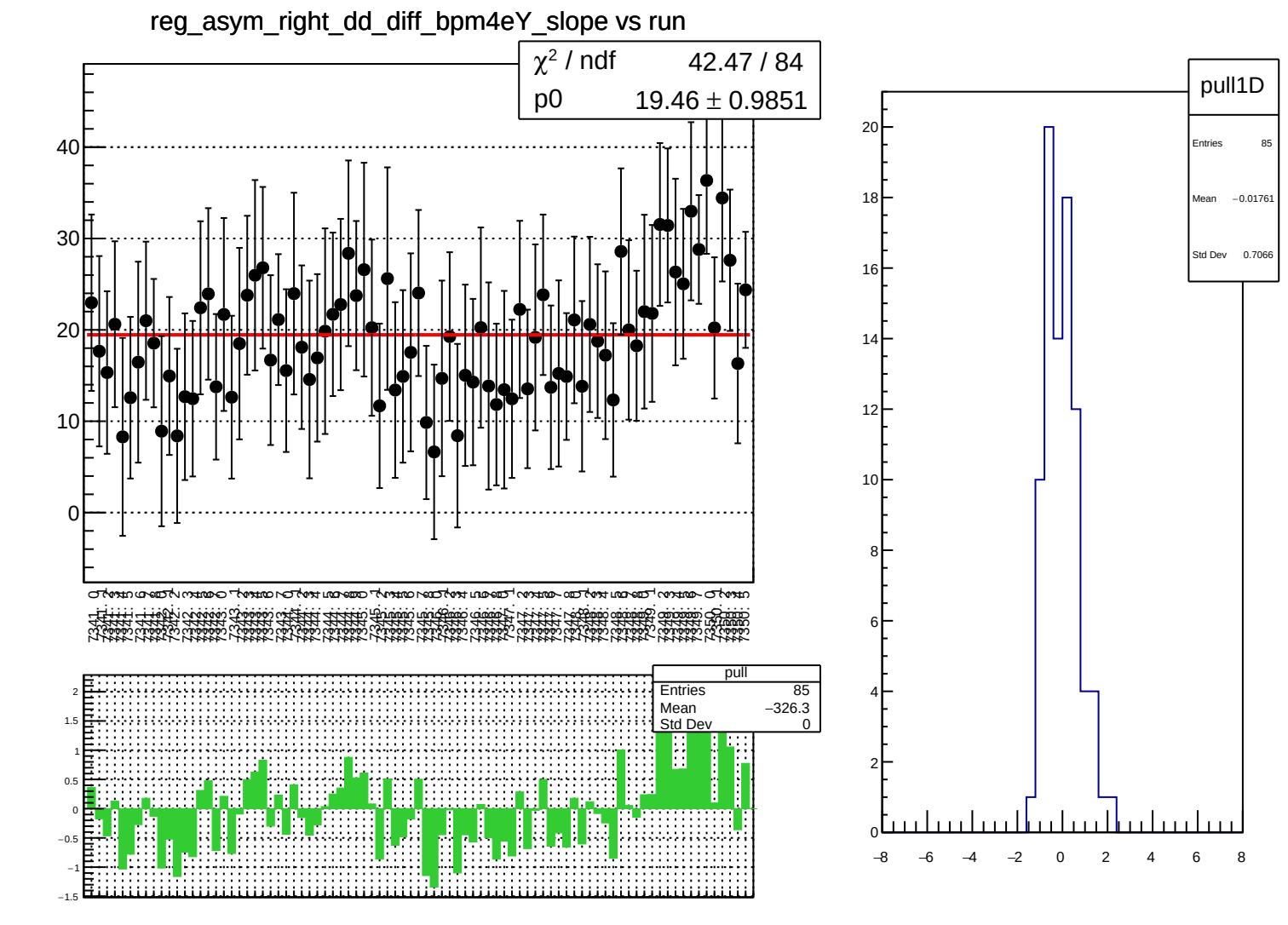

pull1D
Entries 85
Mean −0.1757
Std Dev 1.139

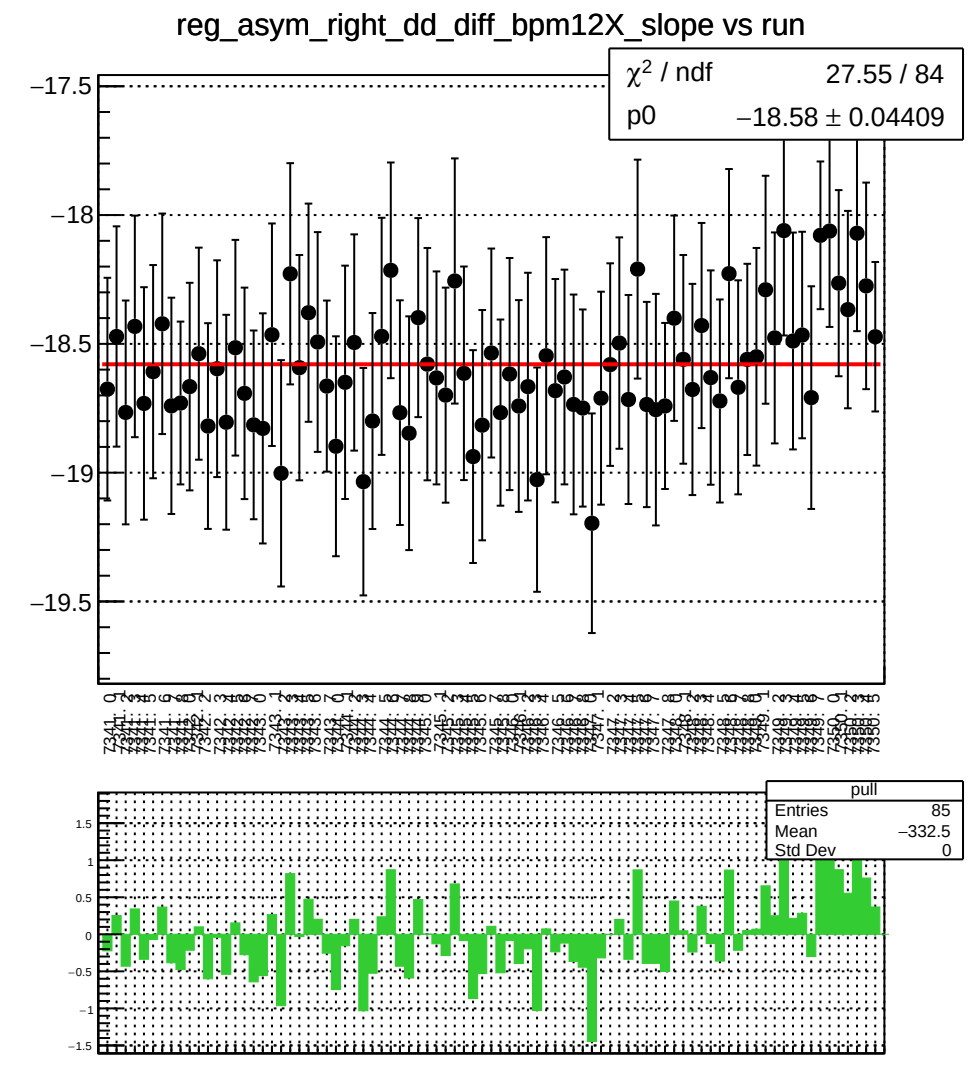

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.95 / 84
p0 −9.112 ± 0.9031
pull
Entries 85
Mean −555.6
Std Dev 0

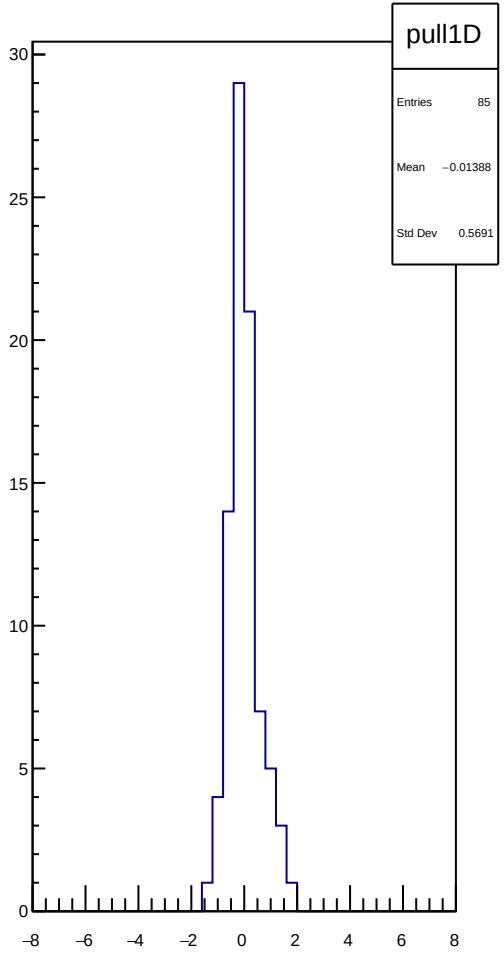

pull1D
Entries 85
Mean 0.01103
Std Dev 0.7189

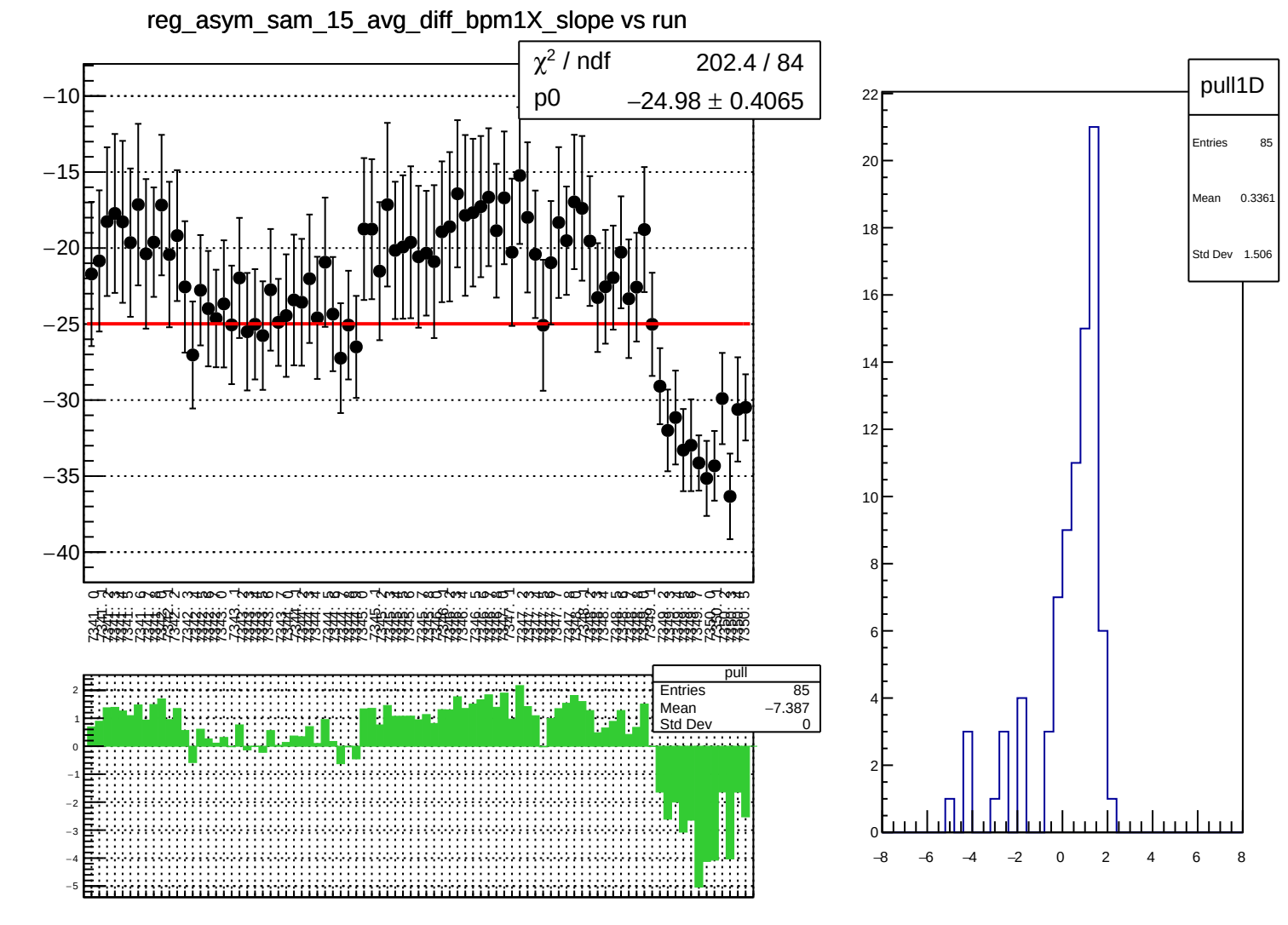

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 111.4 / 84
p0 42.28 ± 0.9949
pull
Entries 85
Mean −12.83
Std Dev 0

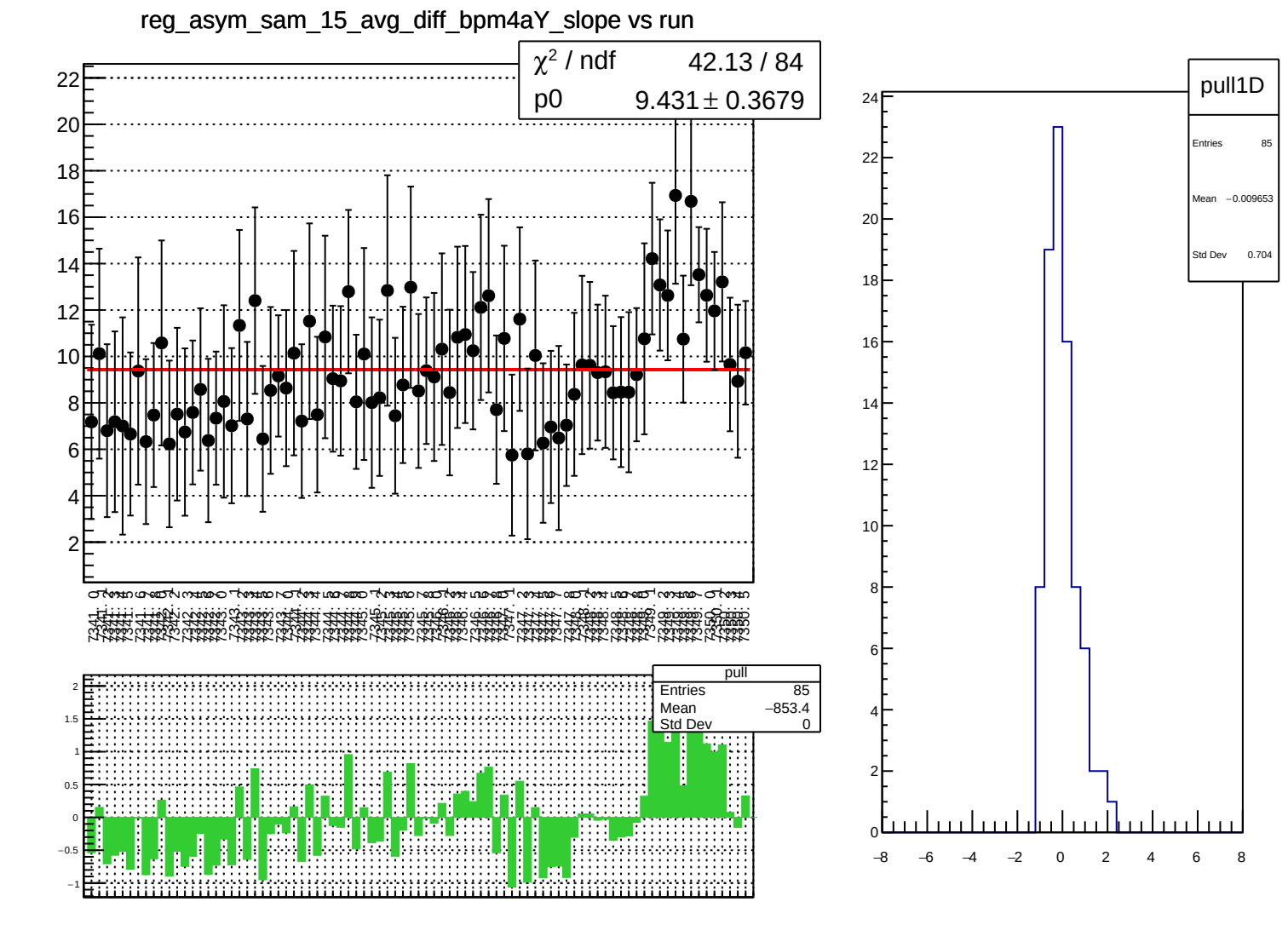

pull1D
Entries 85
Mean 0.1806
Std Dev 1.13

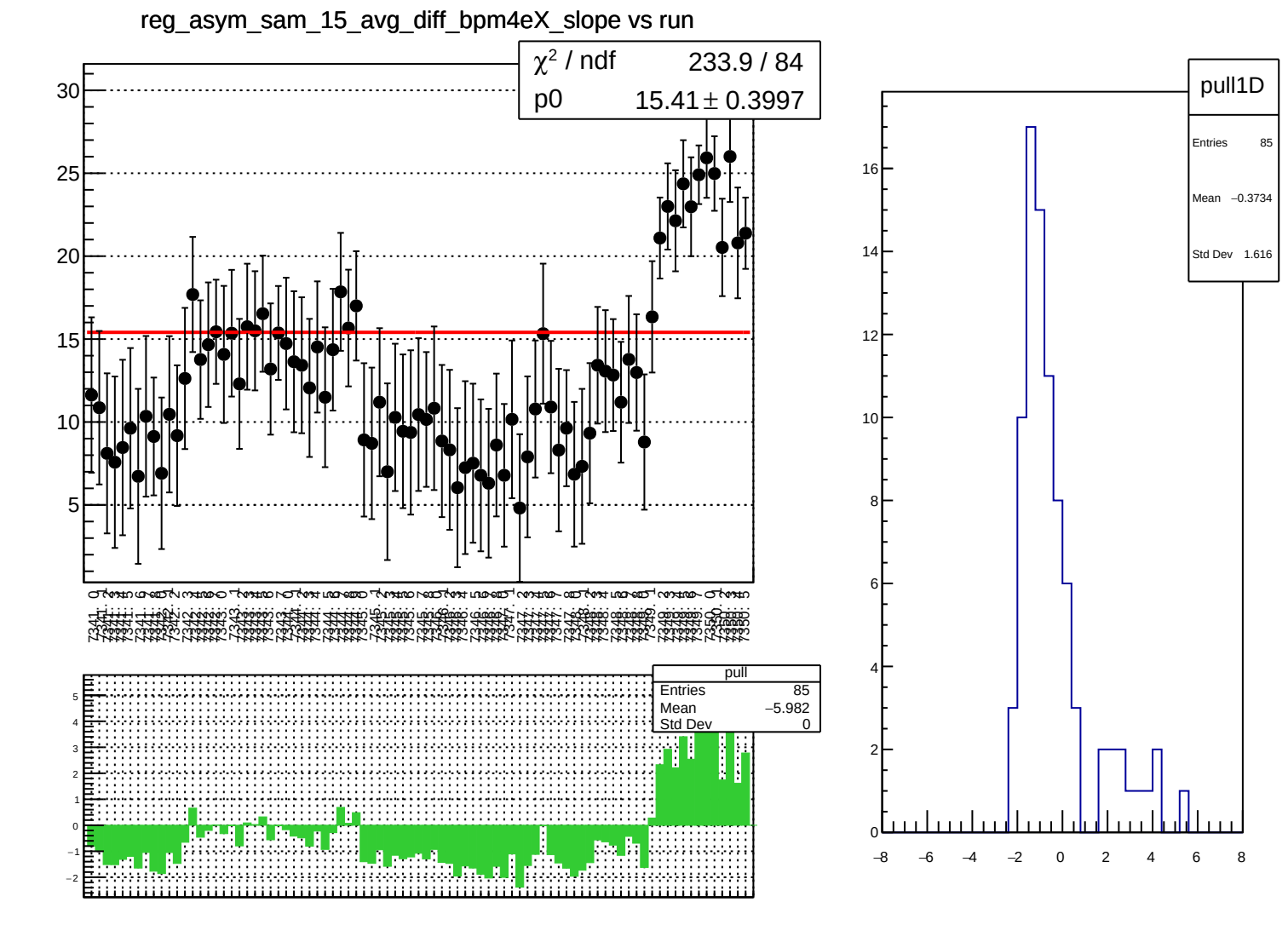

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.47 / 84
p0 19.46 ± 0.9851
pull
Entries 85
Mean −326.3
Std Dev 0
pull1D
Entries 85
Mean −0.01761
Std Dev 0.7066

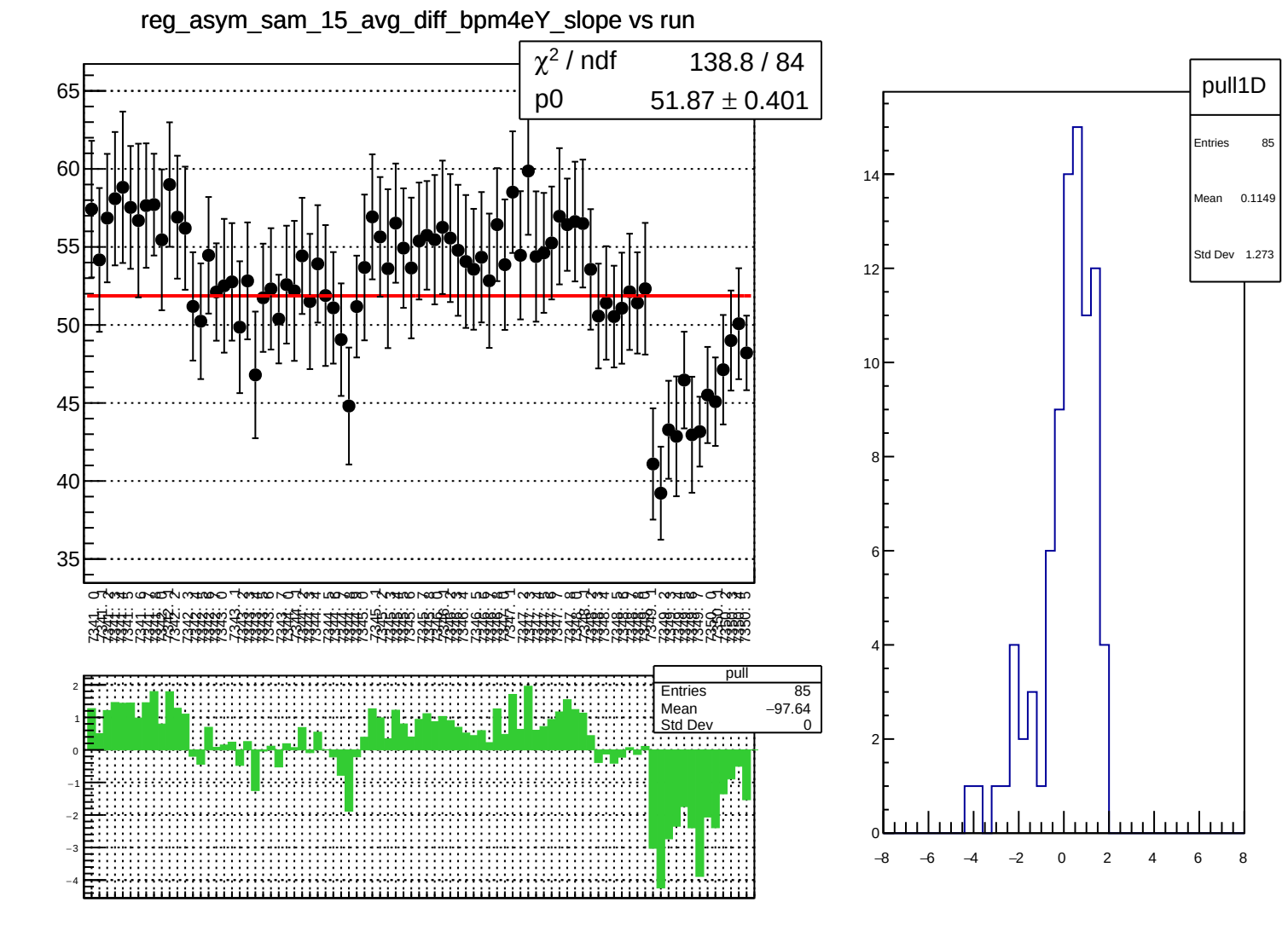

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 27.55 / 84
p0 −18.58 ± 0.04409
−17.5
−18
−18.5
−19
−19.5
pull
Entries 85
Mean −332.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

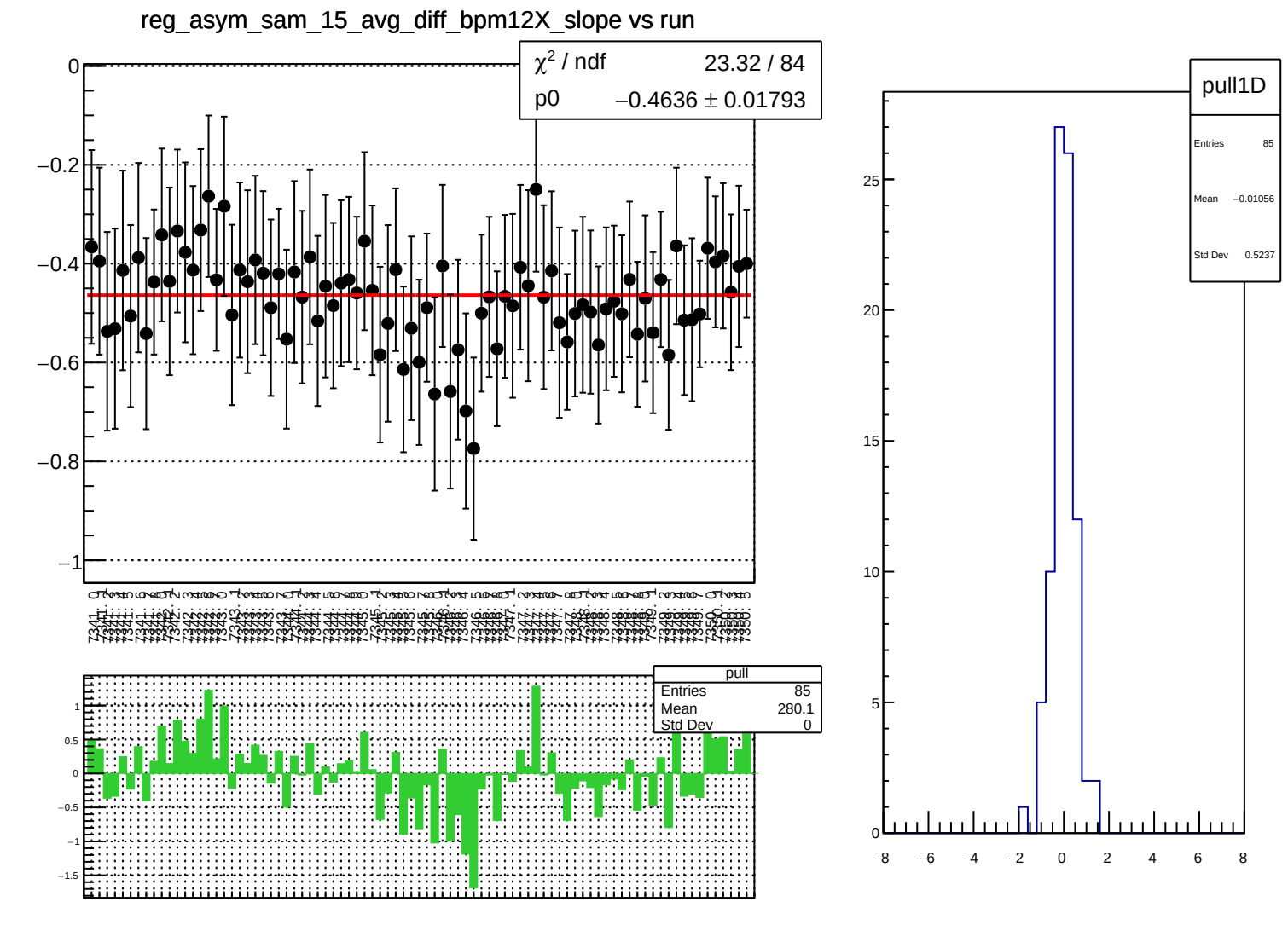

pull1D
Entries 85
Mean −0.01388
Std Dev 0.5691
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

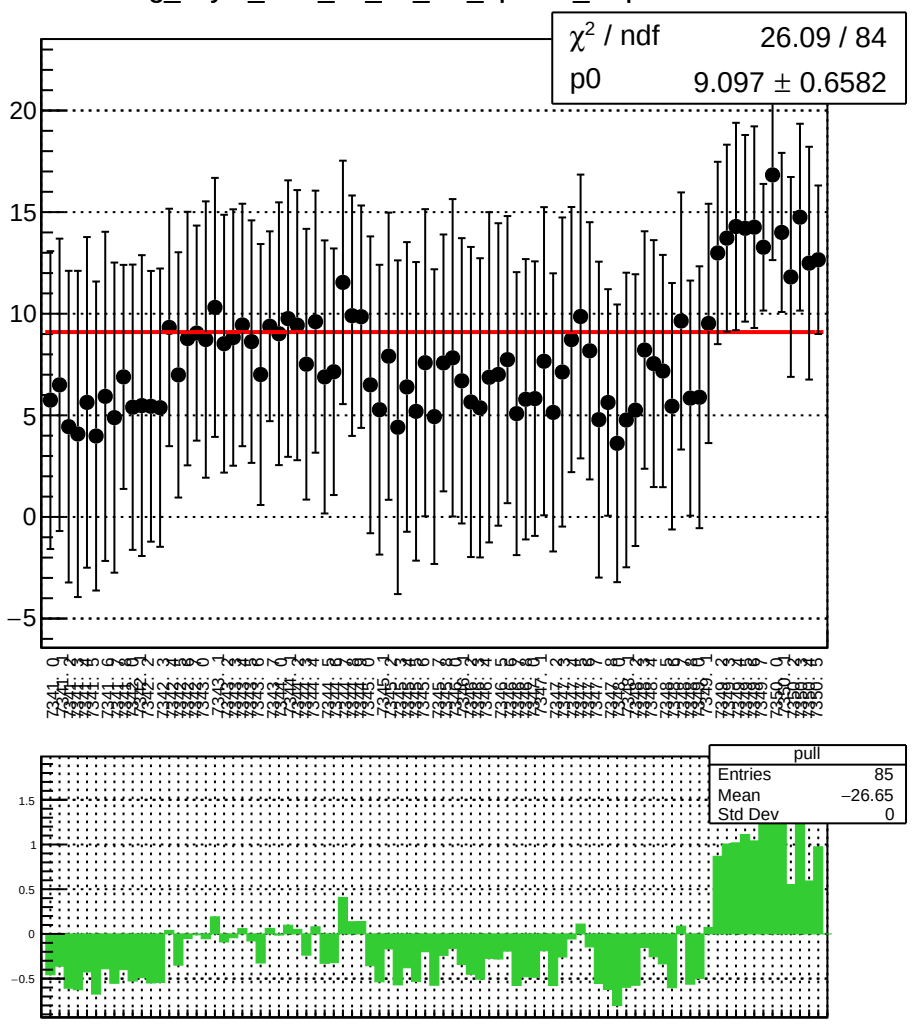

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 202.4 / 84
p0 −24.98 ± 0.4065
pull
Entries 85
Mean −7.387
Std Dev 0
pull1D
Entries 85
Mean 0.3361
Std Dev 1.506

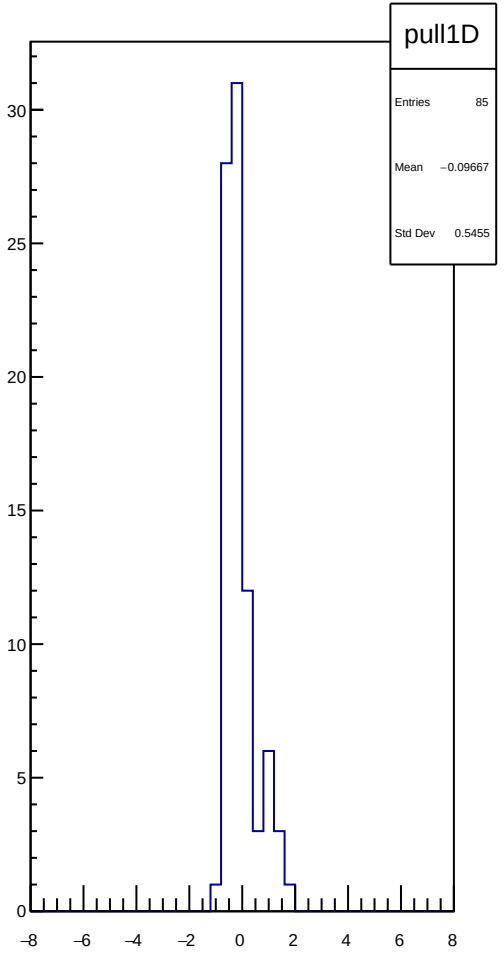

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.13 / 84
p0 9.431 ± 0.3679
pull
Entries 85
Mean −853.4
Std Dev 0
pull1D
Entries 85
Mean −0.009653
Std Dev 0.704

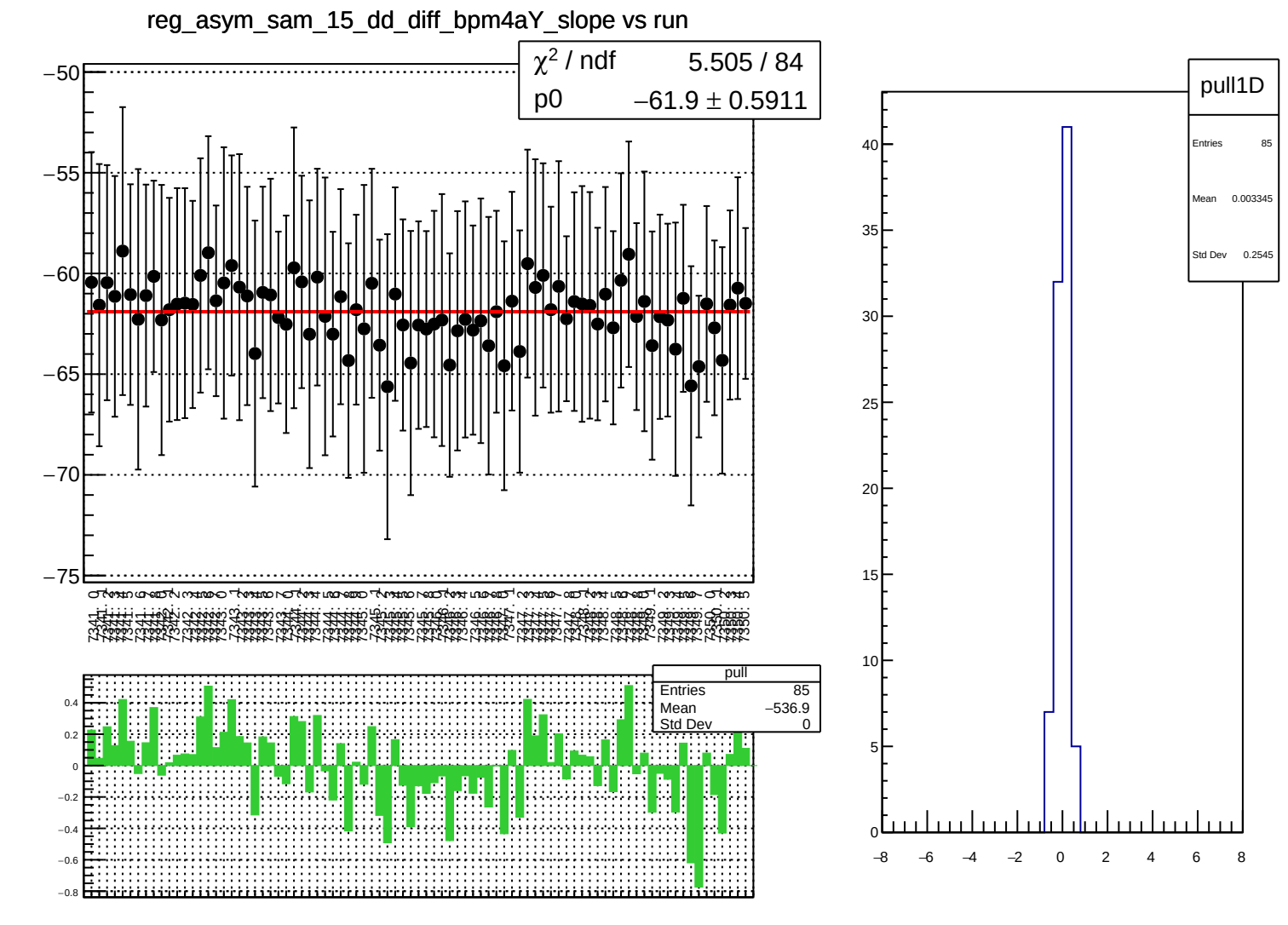

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 233.9 / 84
p0 15.41 ± 0.3997
pull
Entries 85
Mean −5.982
Std Dev 0
pull1D
Entries 85
Mean −0.3734
Std Dev 1.616

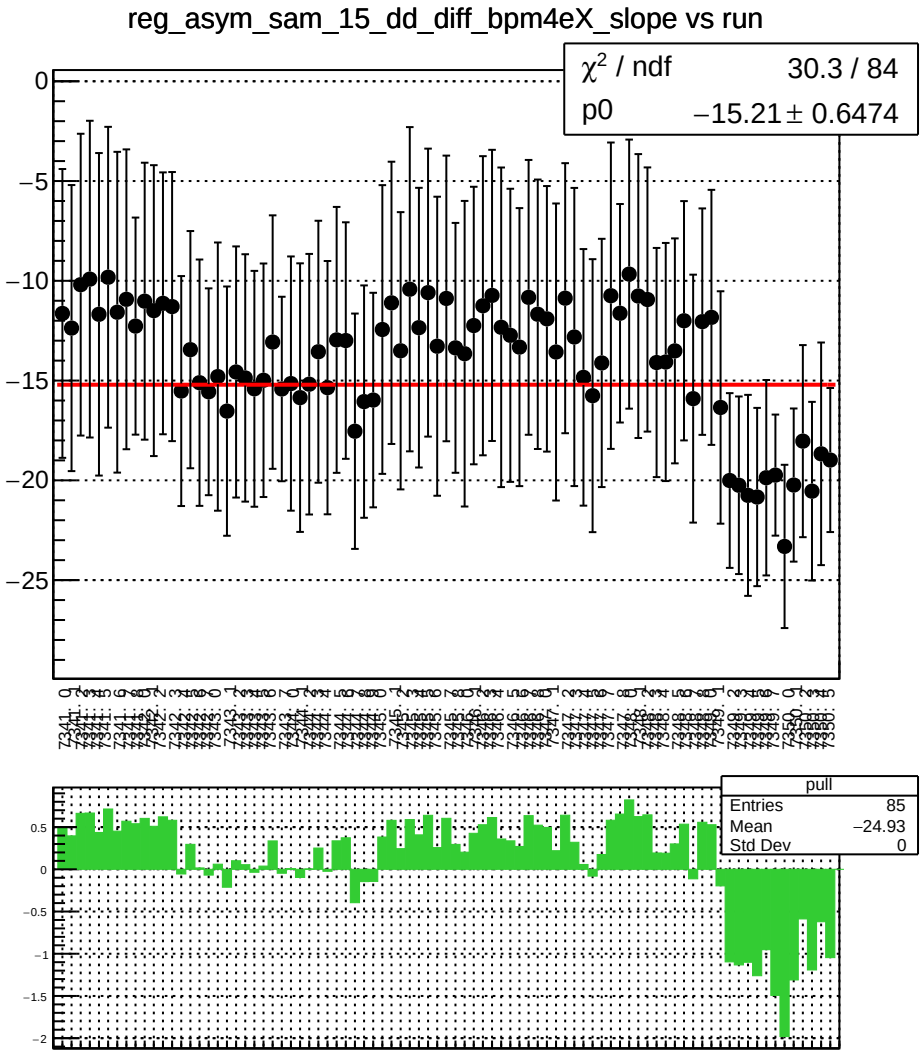

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 138.8 / 84
p0 51.87 ± 0.401
pull
Entries 85
Mean −97.64
Std Dev 0
pull1D
Entries 85
Mean 0.1149
Std Dev 1.273

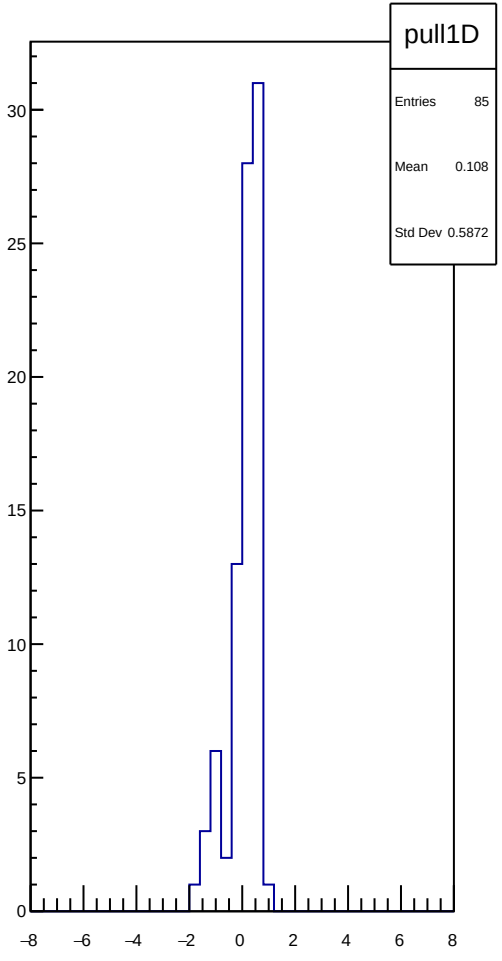

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 23.32 / 84
p0 −0.4636 ± 0.01793
pull
Entries 85
Mean 280.1
Std Dev 0
pull1D
Entries 85
Mean −0.01056
Std Dev 0.5237

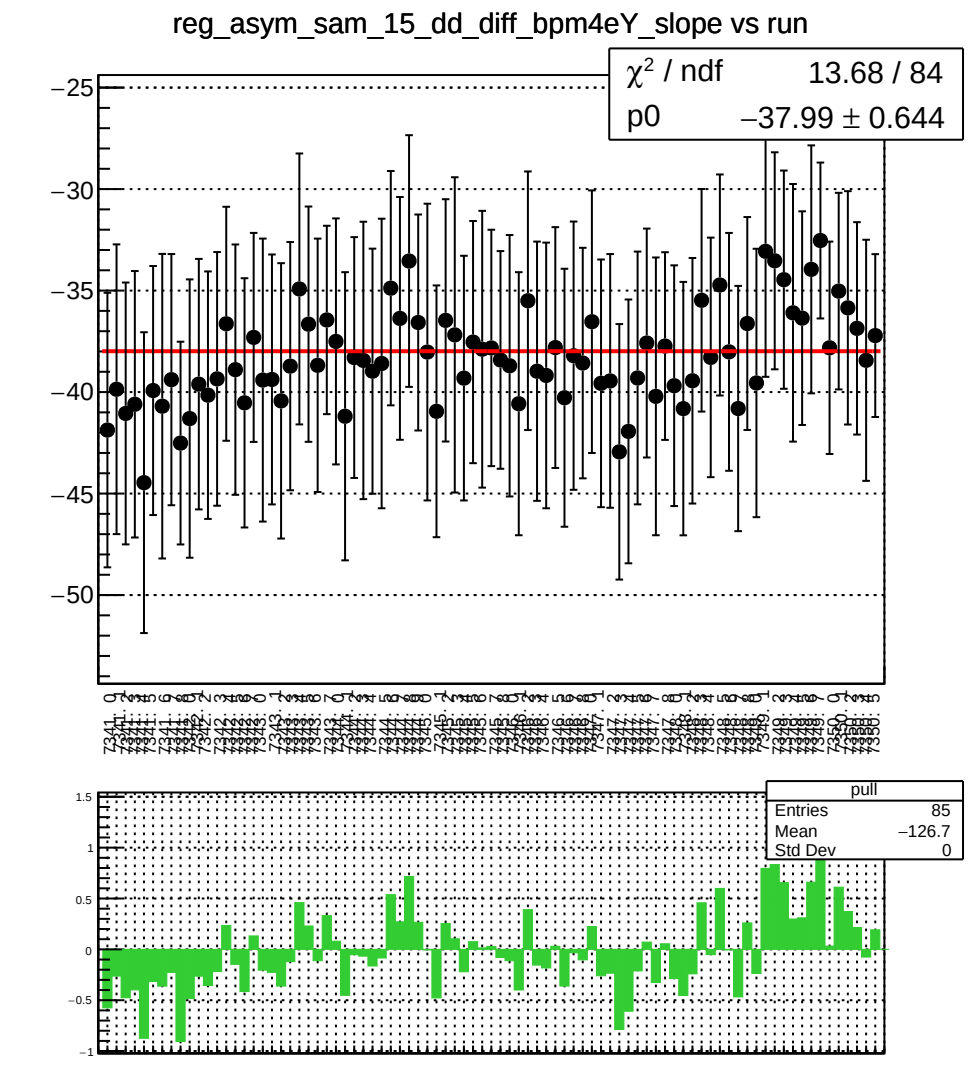

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 26.09 / 84
p0 9.097 ± 0.6582
pull
Entries 85
Mean −26.65
Std Dev 0

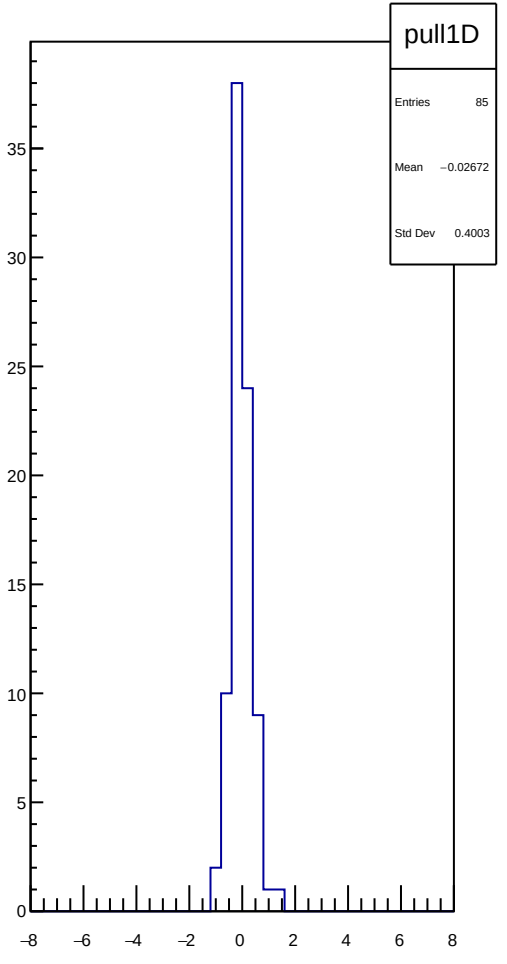

pull1D
Entries 85
Mean −0.09667
Std Dev 0.5455

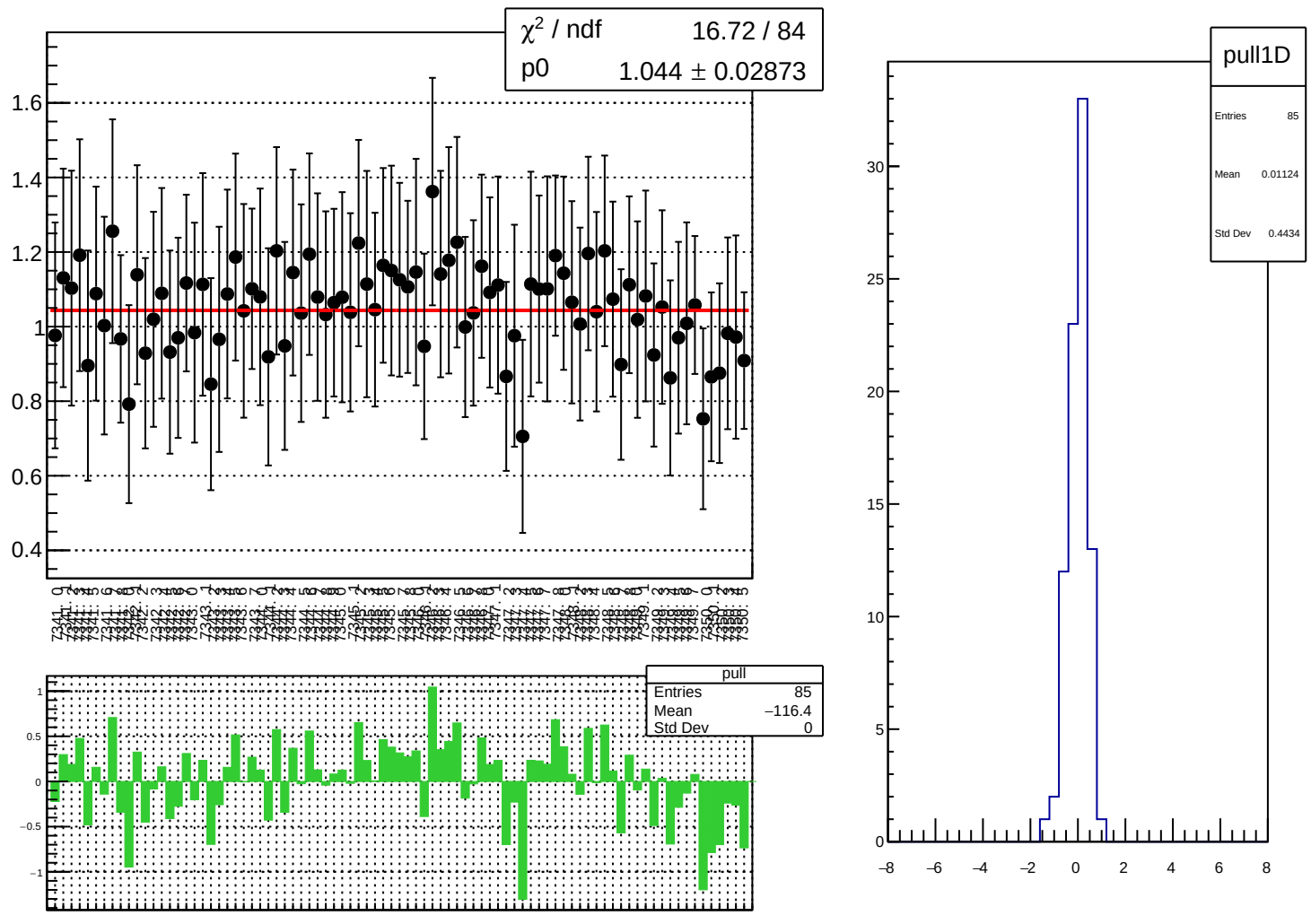

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.505 / 84
p0 −61.9 ± 0.5911
pull
Entries 85
Mean −536.9
Std Dev 0
pull1D
Entries 85
Mean 0.003345
Std Dev 0.2545

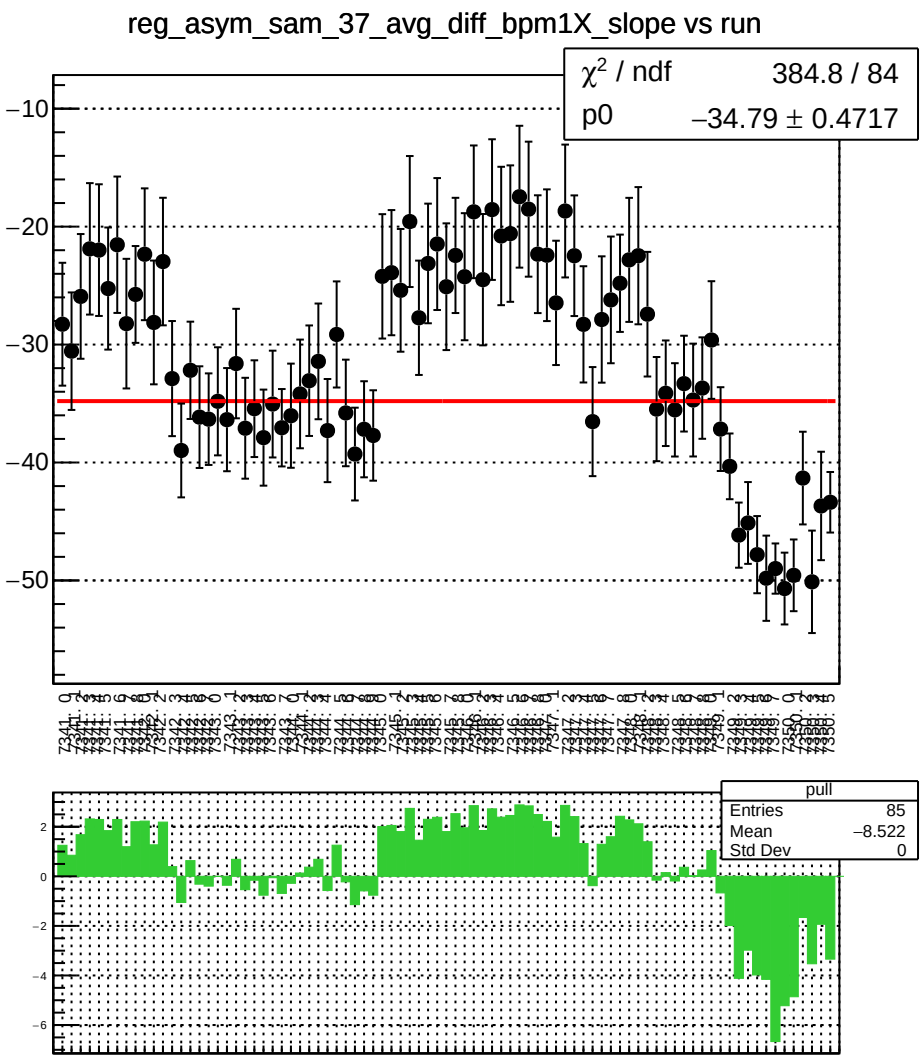

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.3 / 84
p0 −15.21 ± 0.6474
pull
Entries 85
Mean −24.93
Std Dev 0

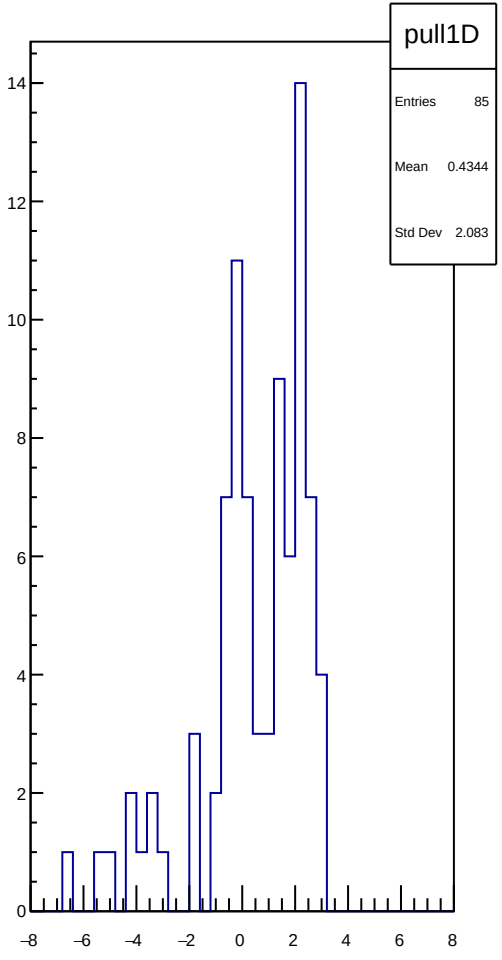

pull1D
Entries 85
Mean 0.108
Std Dev 0.5872

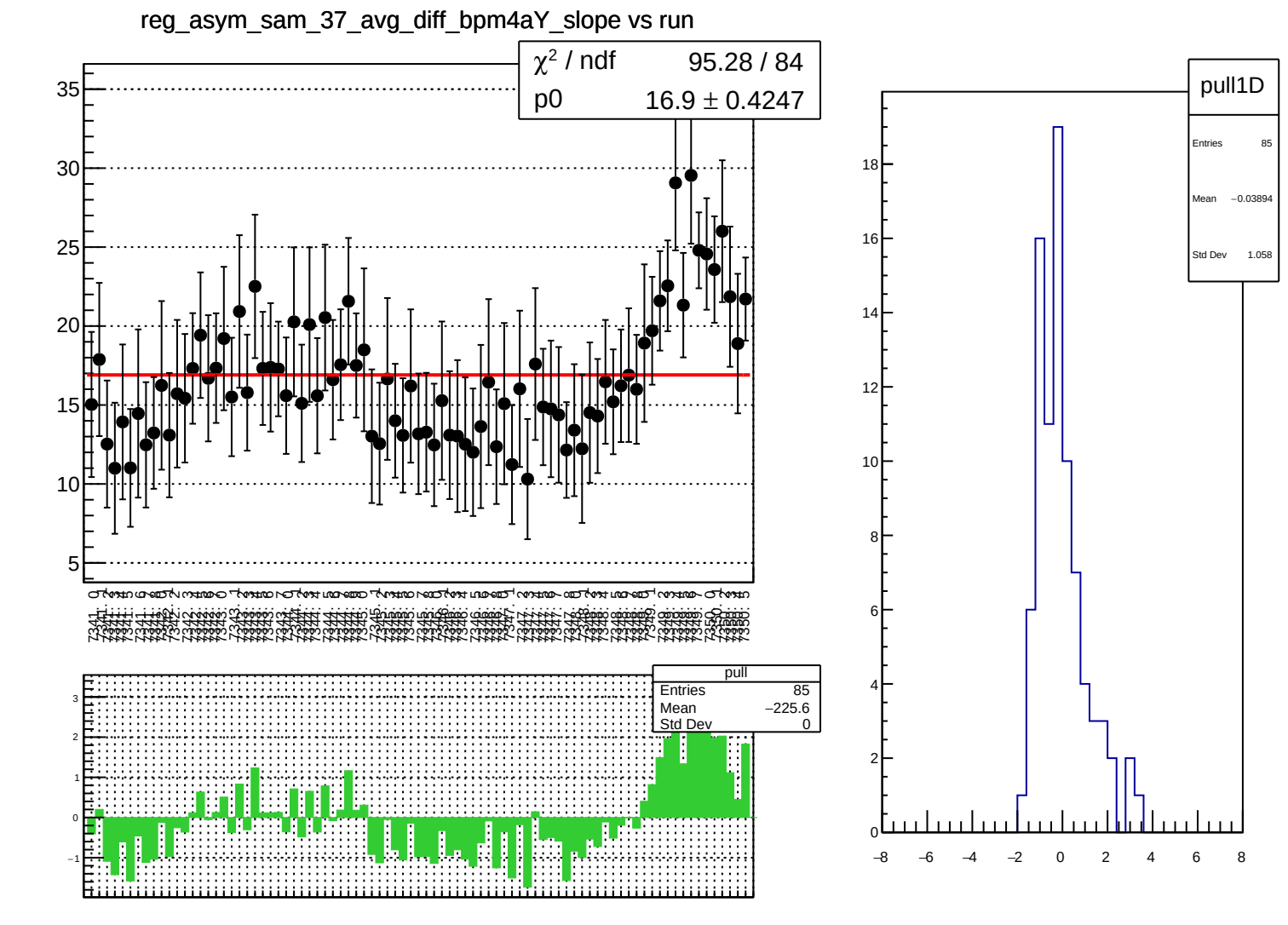

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.68 / 84
p0 −37.99 ± 0.644
pull
Entries 85
Mean −126.7
Std Dev 0

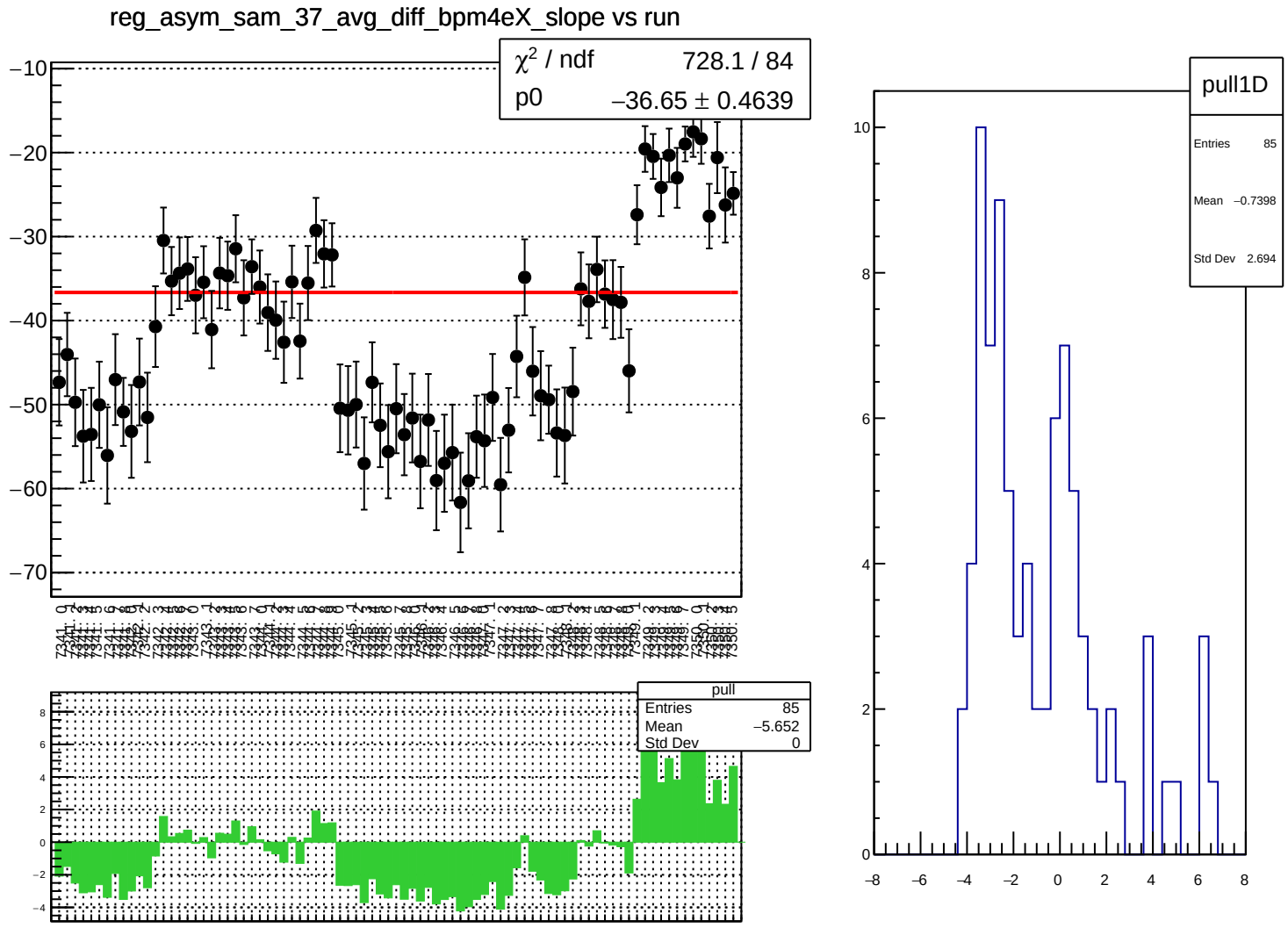

pull1D
Entries 85
Mean −0.02672
Std Dev 0.4003

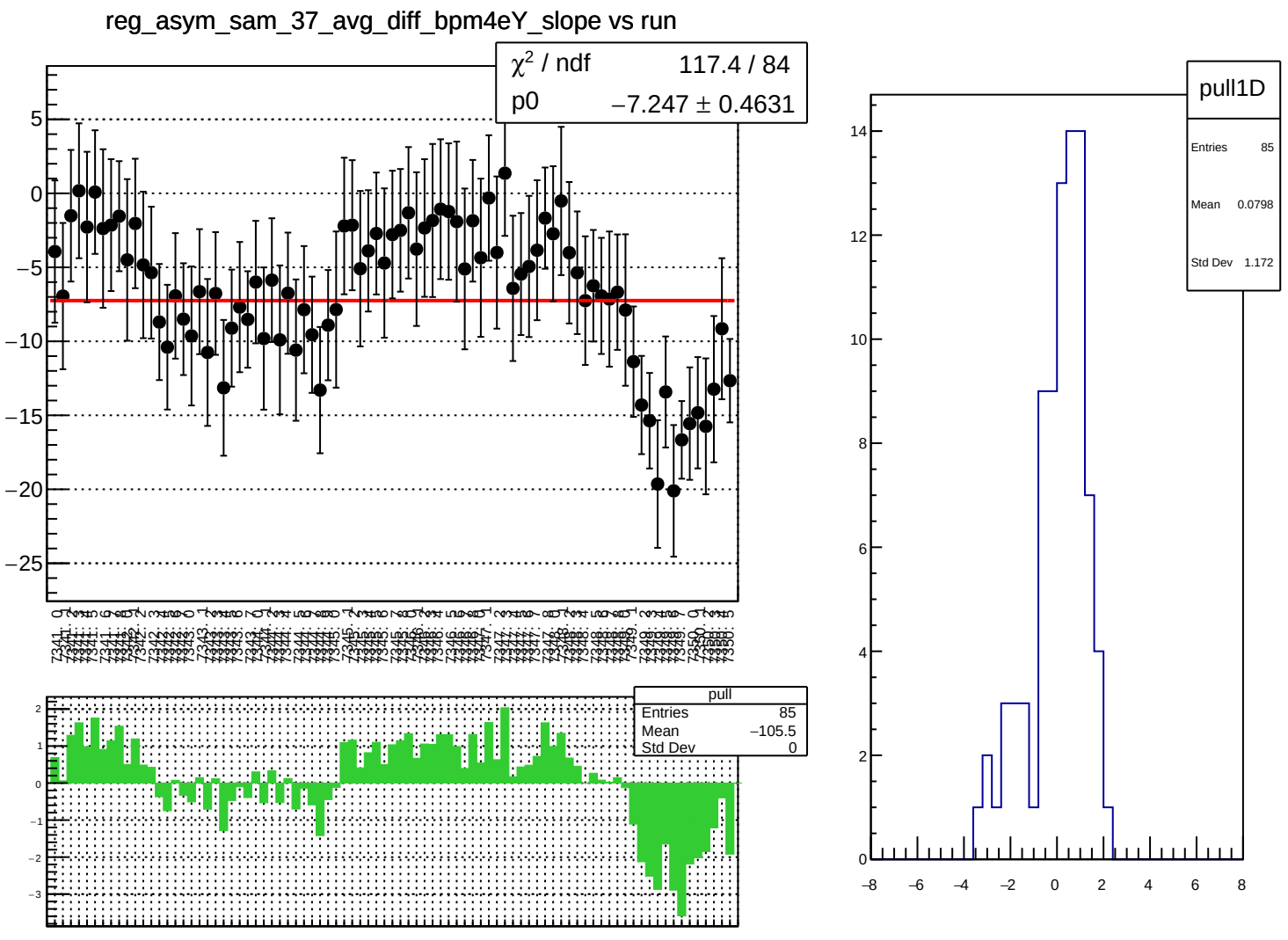

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 16.72 / 84
p0 1.044 ± 0.02873
pull
Entries 85
Mean −116.4
Std Dev 0
pull1D
Entries 85
Mean 0.01124
Std Dev 0.4434

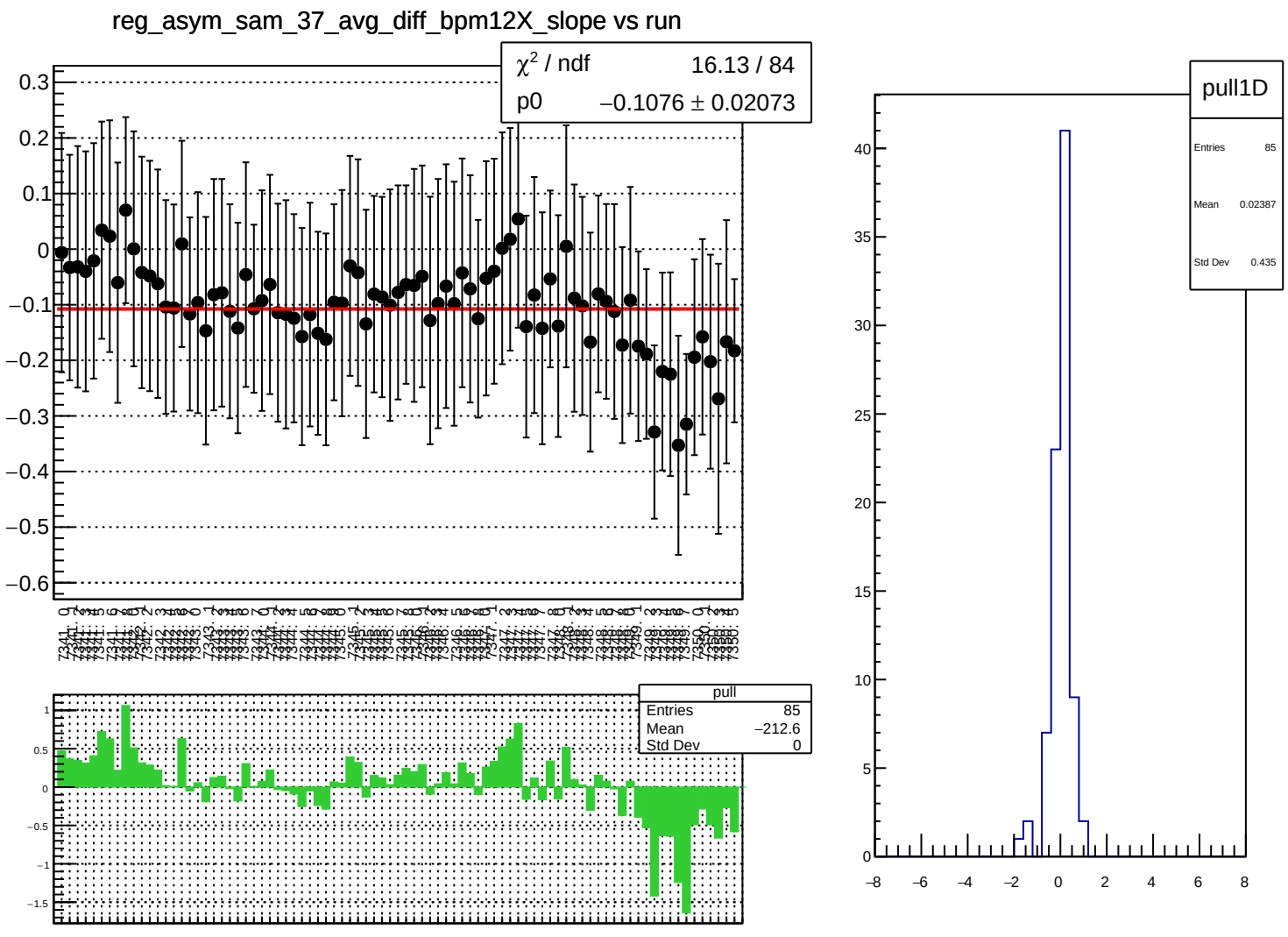

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 384.8 / 84
p0 −34.79 ± 0.4717
pull
Entries 85
Mean −8.522
Std Dev 0

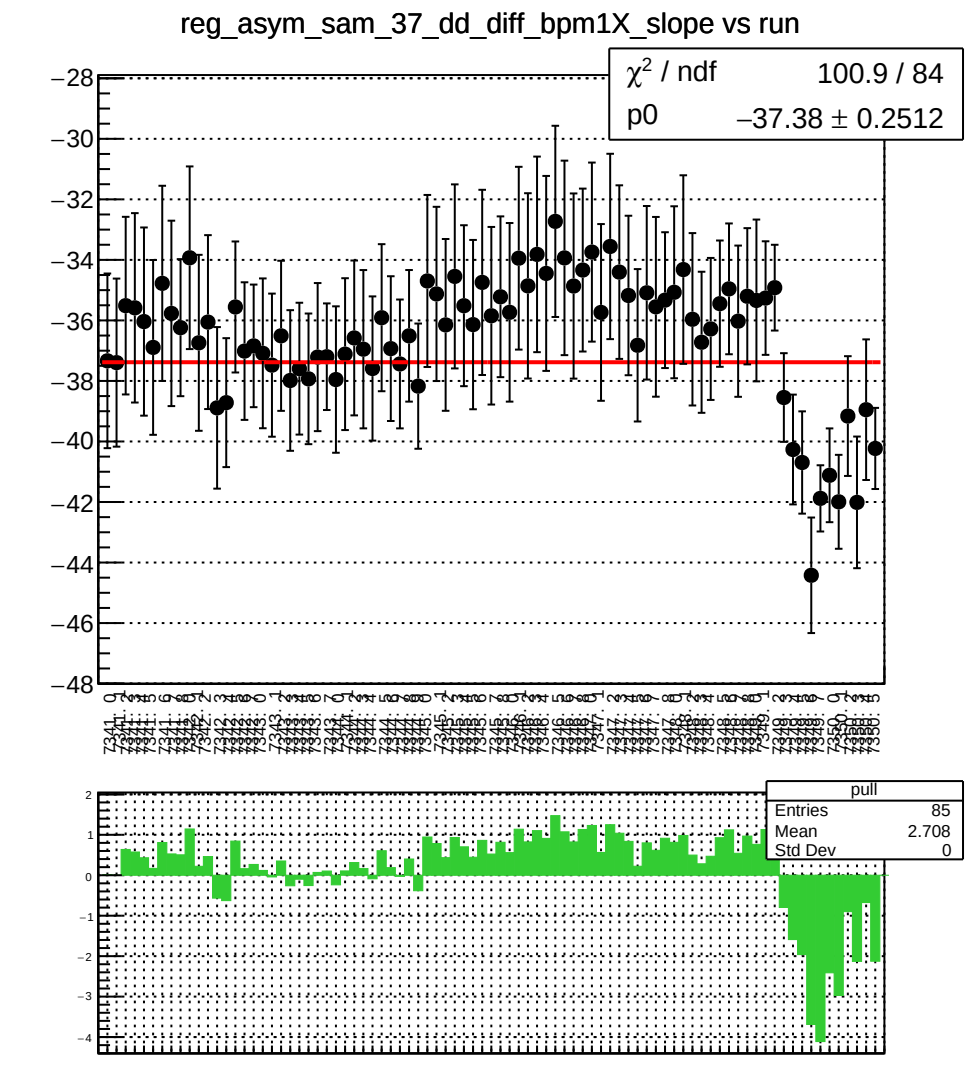

pull1D
Entries 85
Mean 0.4344
Std Dev 2.083

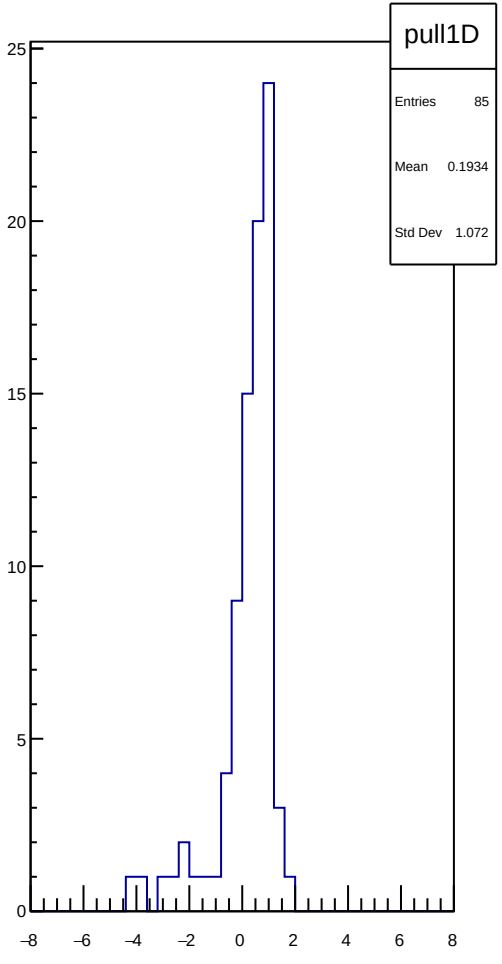

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 95.28 / 84
p0 16.9 ± 0.4247
pull
Entries 85
Mean −225.6
Std Dev 0
pull1D
Entries 85
Mean −0.03894
Std Dev 1.058

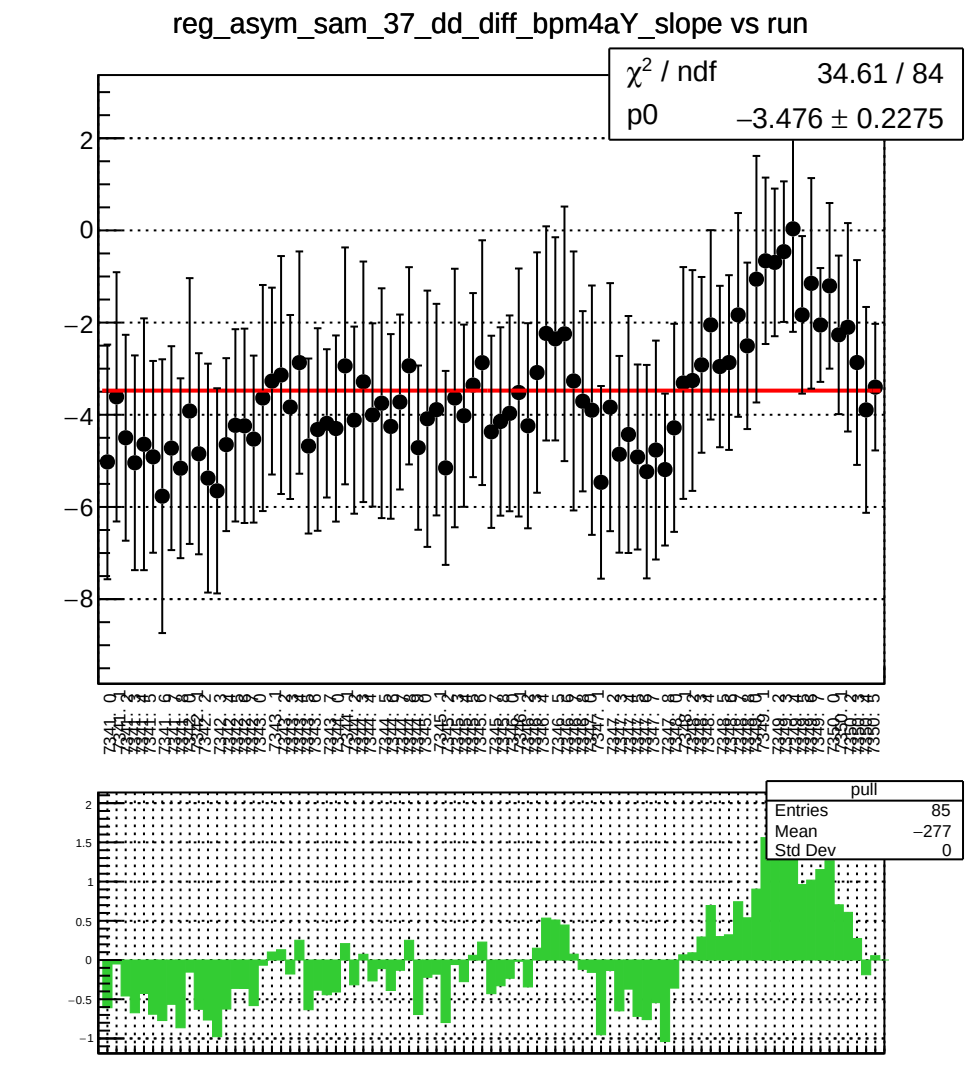

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 728.1 / 84
p0 −36.65 ± 0.4639
pull
Entries 85
Mean −5.652
Std Dev 0
pull1D
Entries 85
Mean −0.7398
Std Dev 2.694

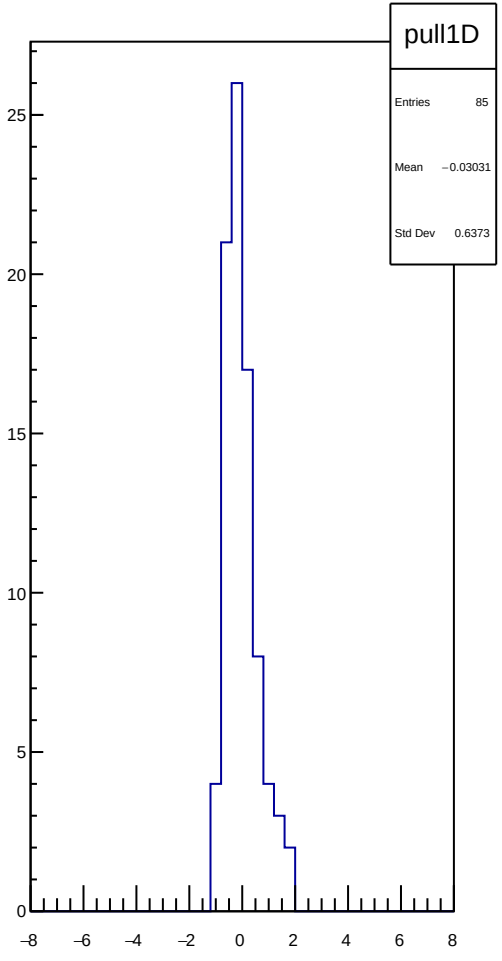

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 117.4 / 84
p0 −7.247 ± 0.4631
pull
Entries 85
Mean −105.5
Std Dev 0
pull1D
Entries 85
Mean 0.0798
Std Dev 1.172

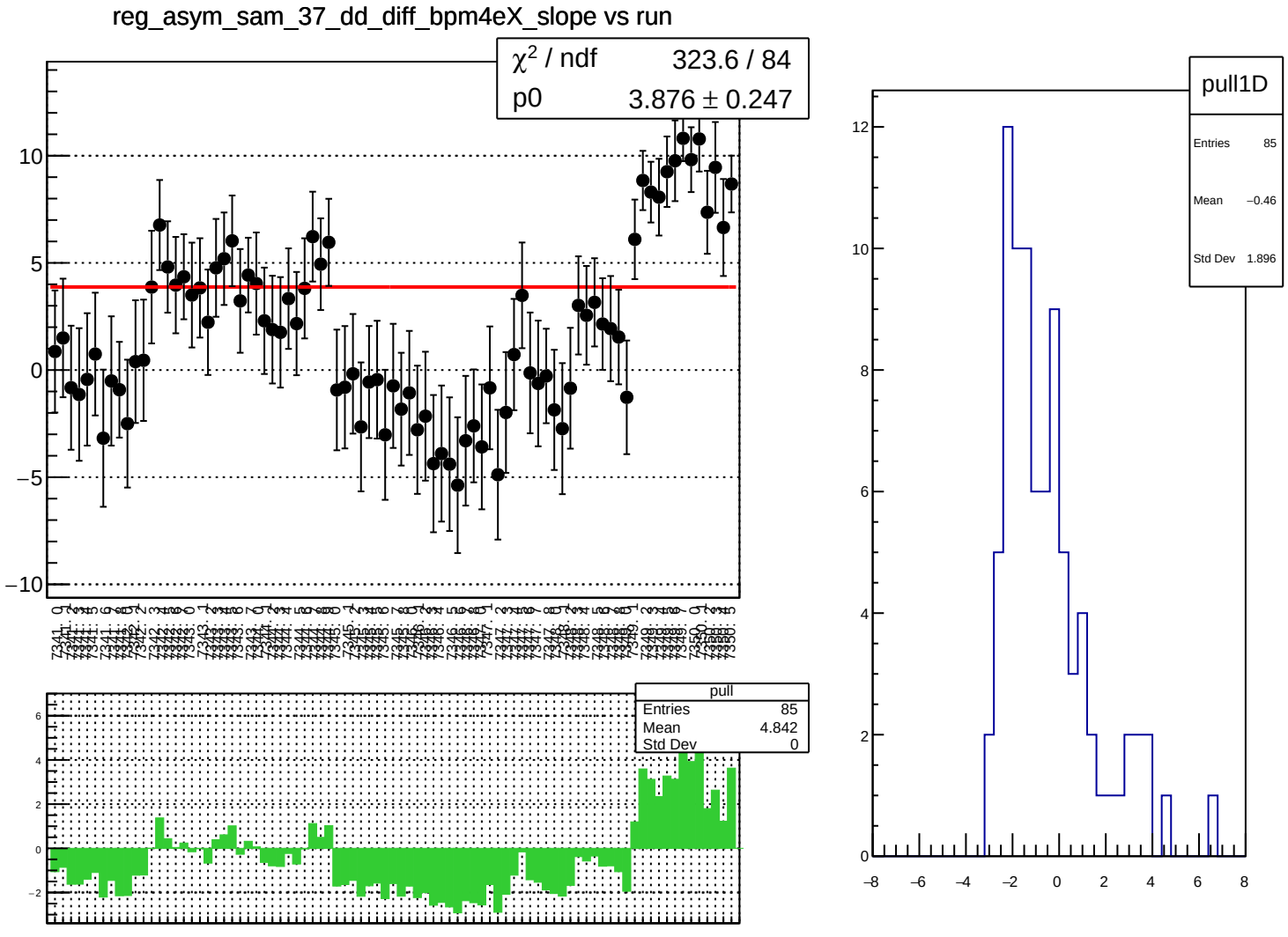

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 16.13 / 84
p0 −0.1076 ± 0.02073
pull
Entries 85
Mean −212.6
Std Dev 0
pull1D
Entries 85
Mean 0.02387
Std Dev 0.435

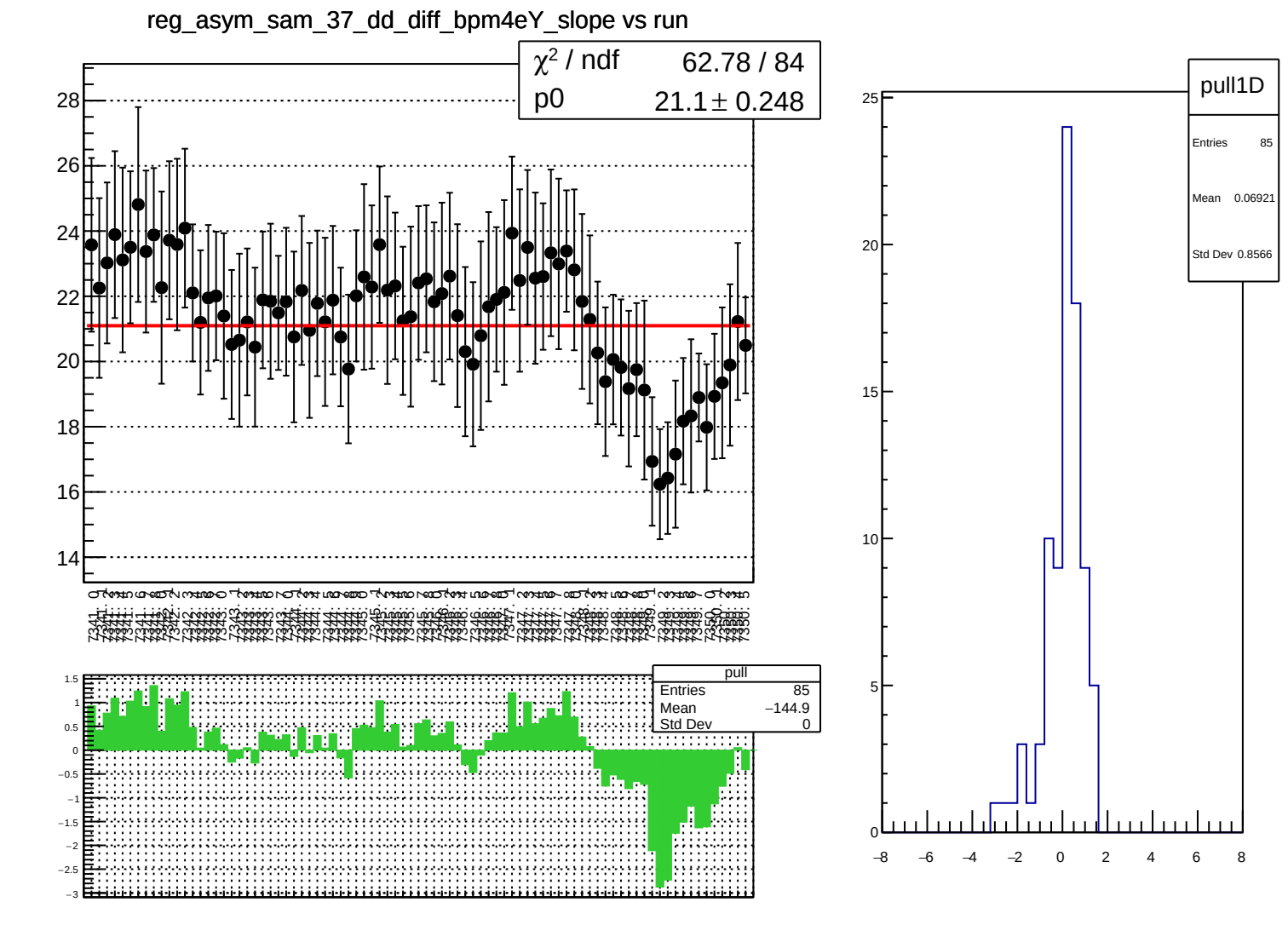

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 100.9 / 84
p0 −37.38 ± 0.2512
pull
Entries 85
Mean 2.708
Std Dev 0

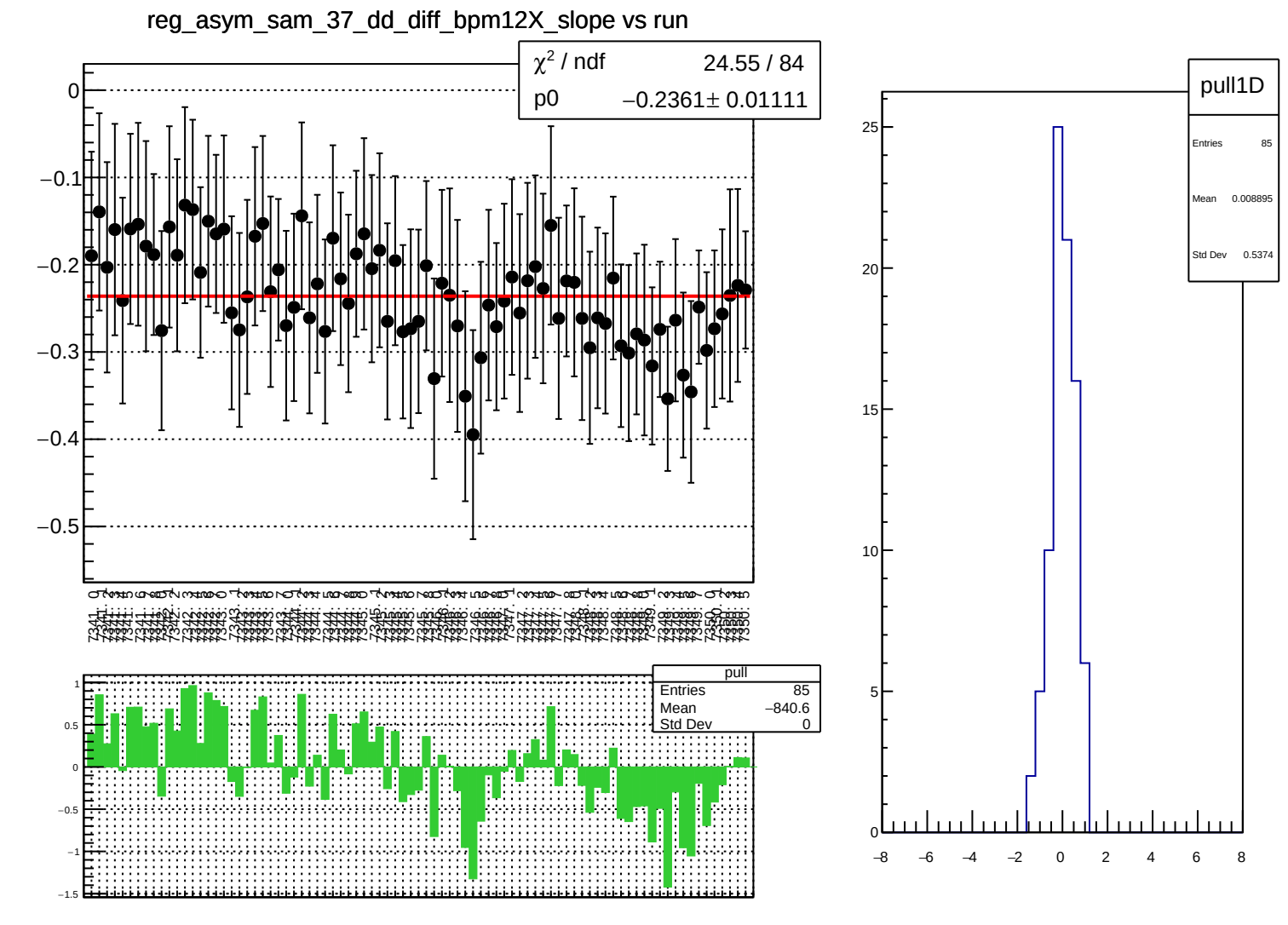

pull1D
Entries 85
Mean 0.1934
Std Dev 1.072

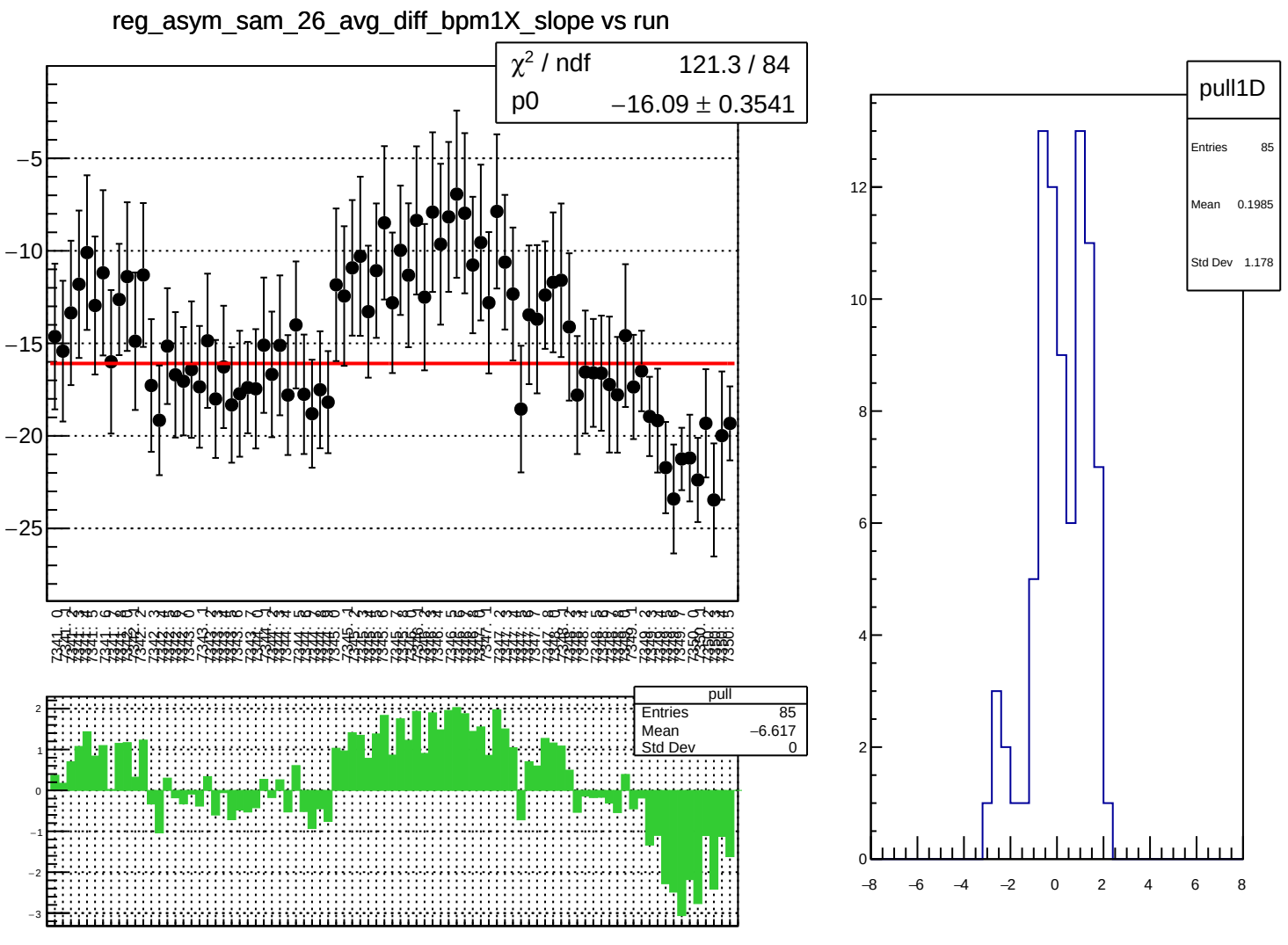

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.61 / 84
p0 −3.476 ± 0.2275
pull
Entries 85
Mean −277
Std Dev 0

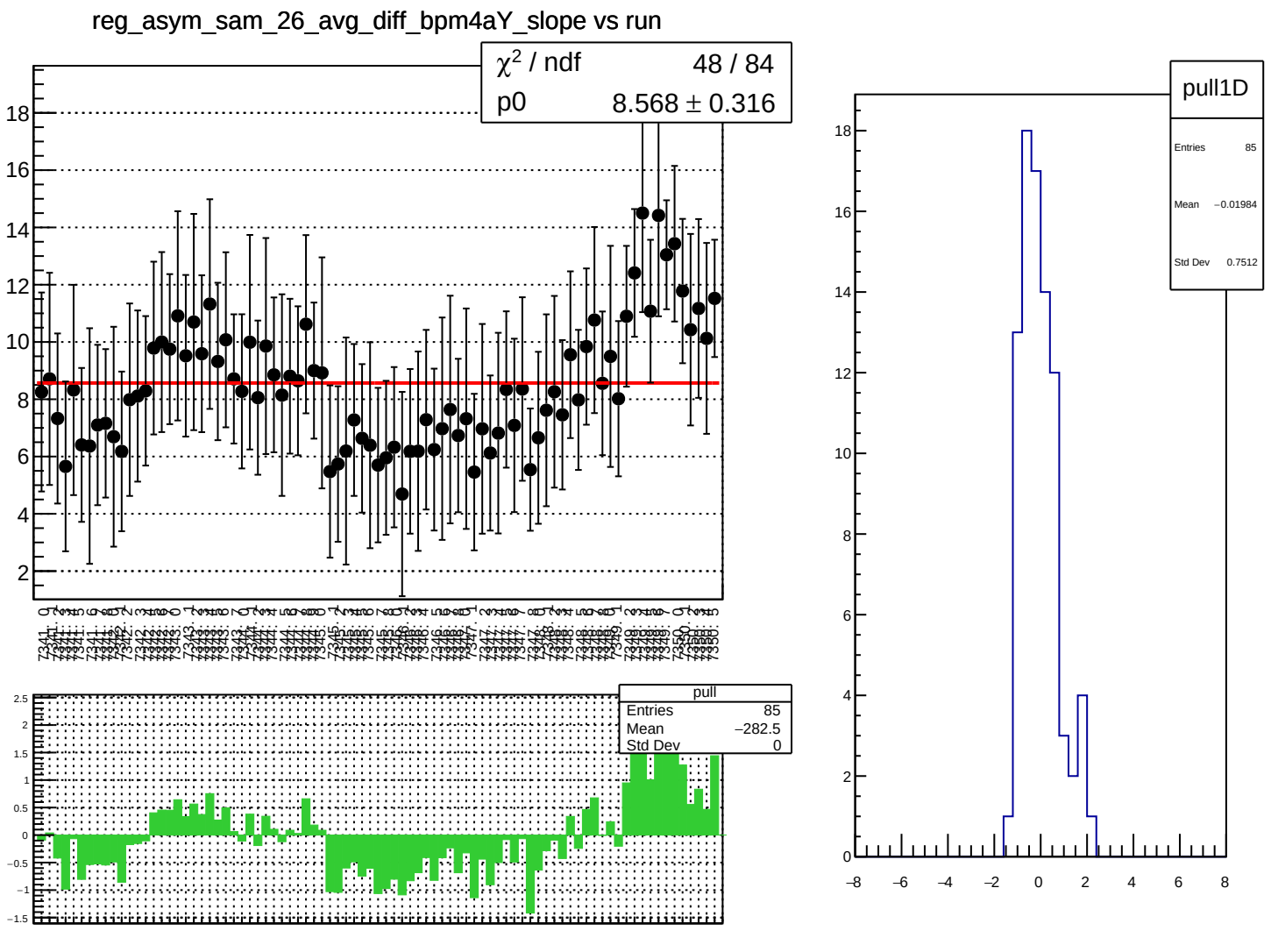

pull1D
Entries 85
Mean −0.03031
Std Dev 0.6373

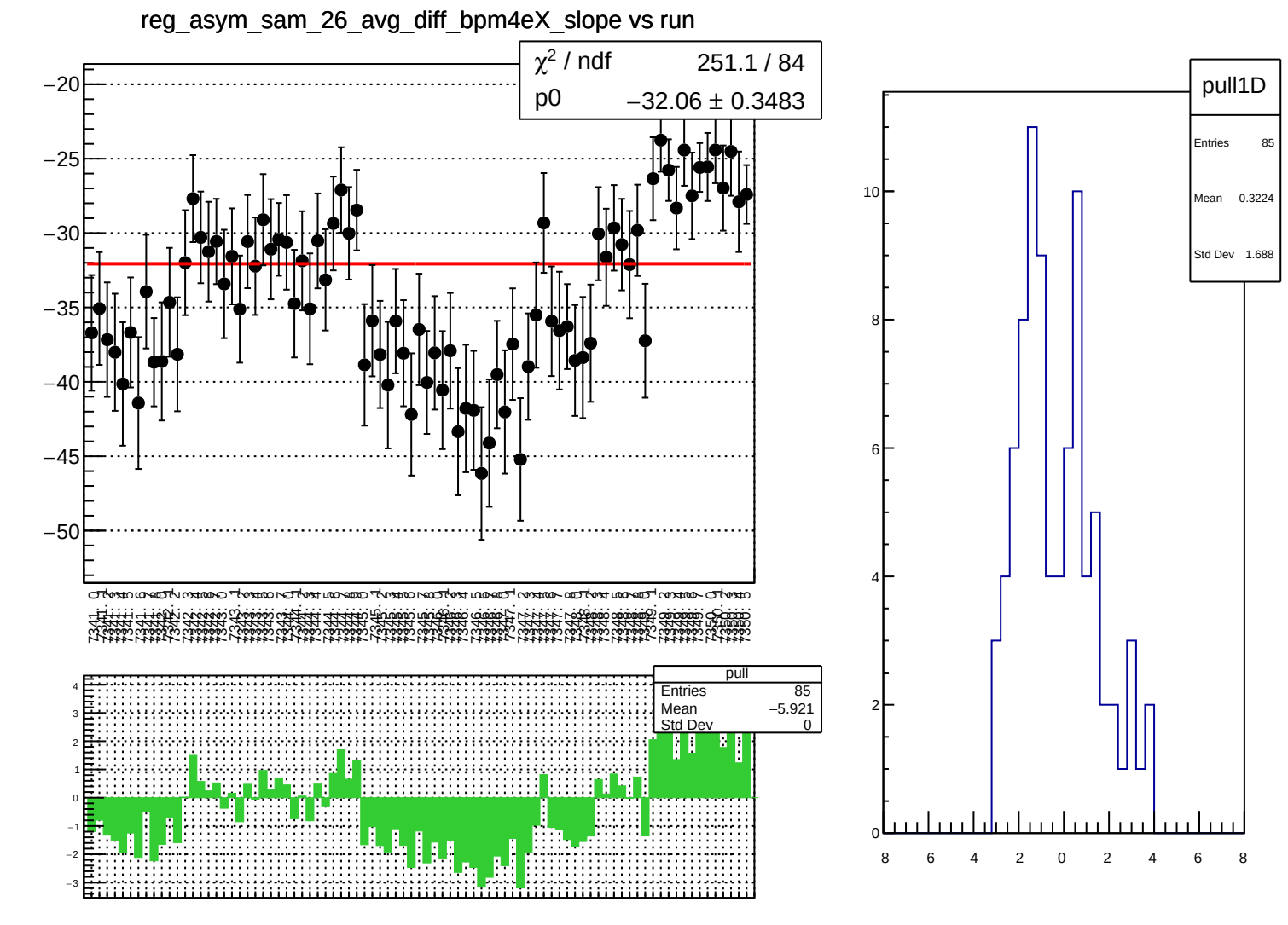

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 323.6 / 84
p0 3.876 ± 0.247
pull
Entries 85
Mean 4.842
Std Dev 0
pull1D
Entries 85
Mean −0.46
Std Dev 1.896

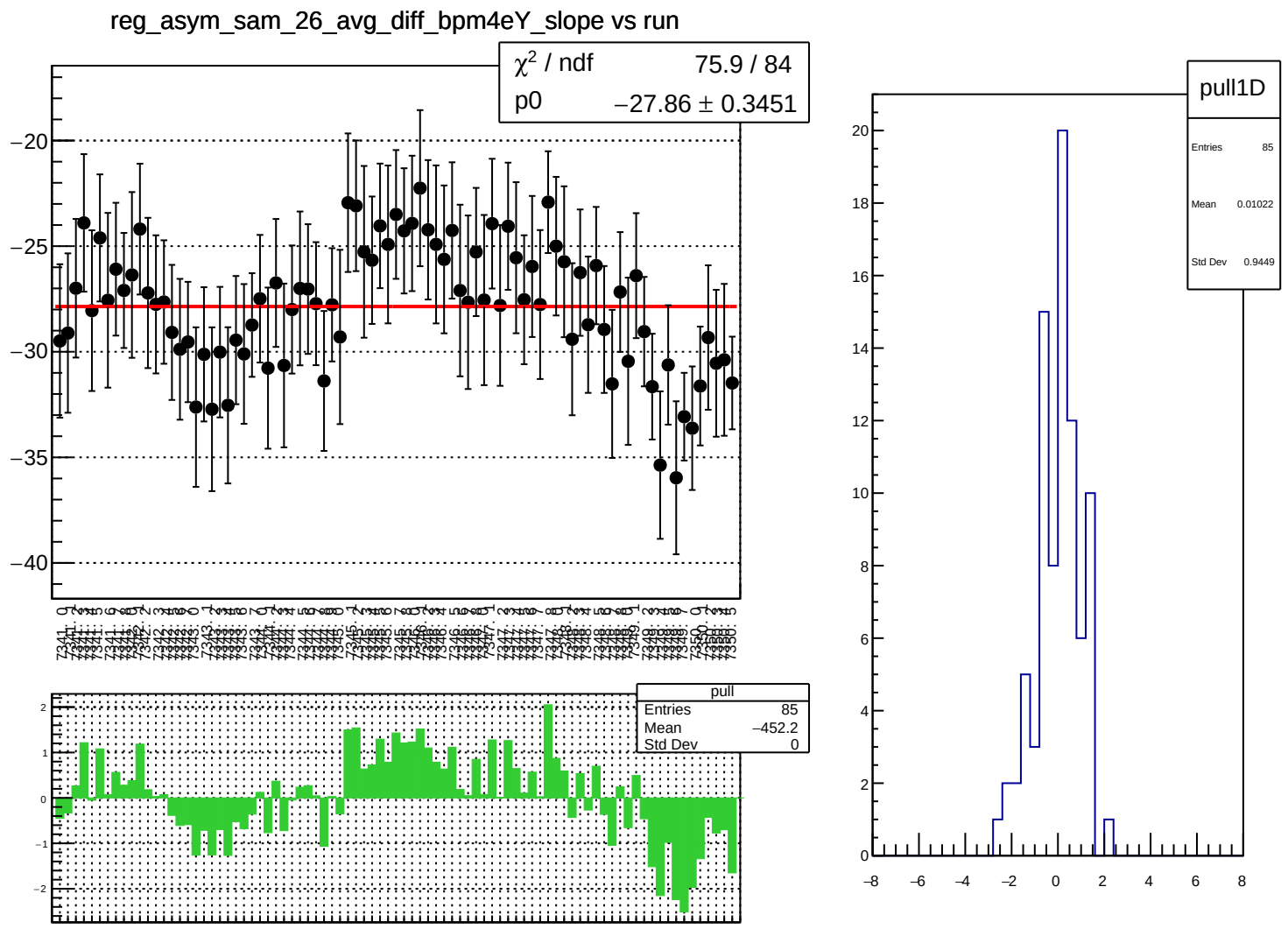

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.78 / 84
p0 21.1 ± 0.248
pull
Entries 85
Mean −144.9
Std Dev 0
pull1D
Entries 85
Mean 0.06921
Std Dev 0.8566

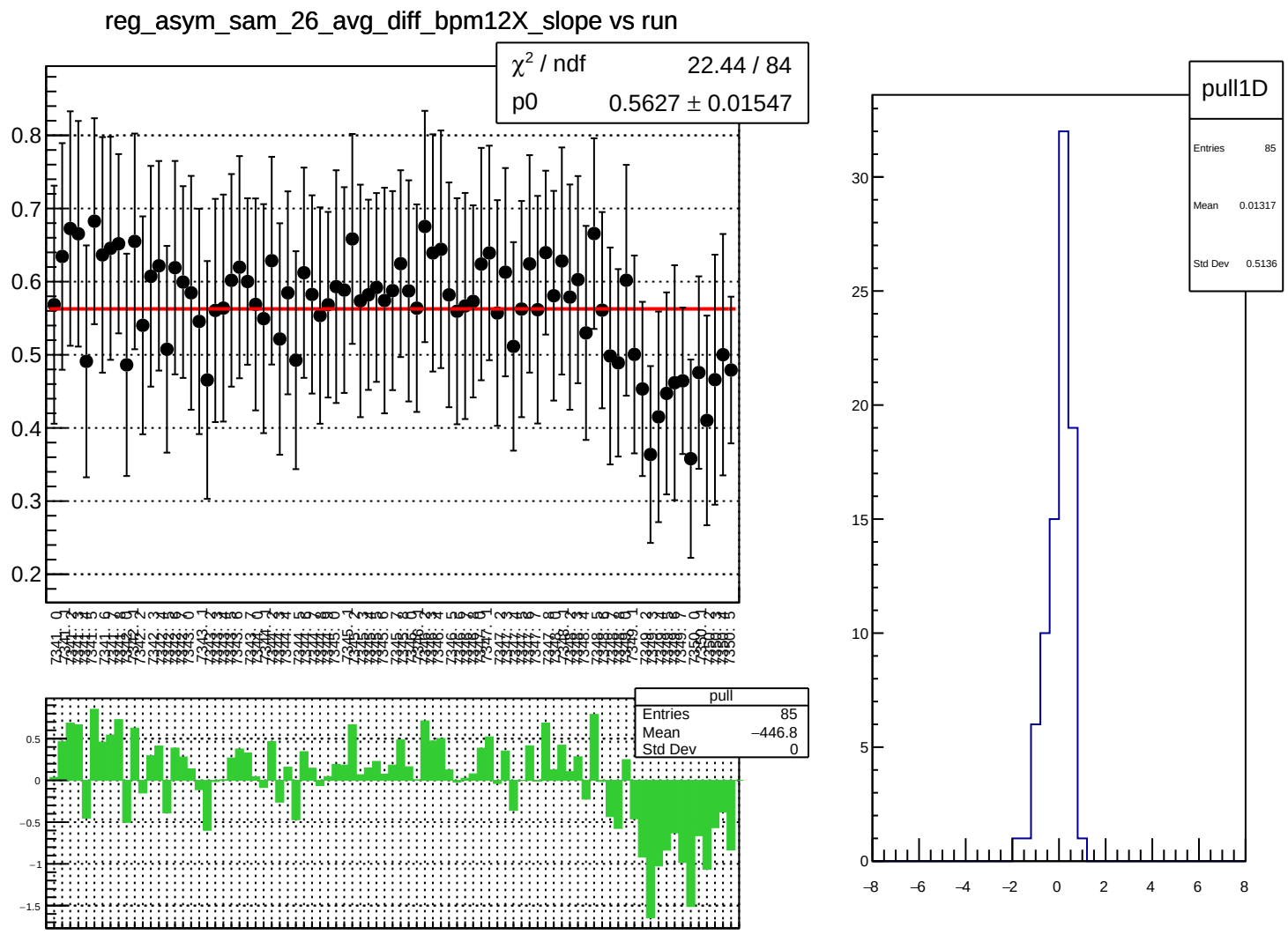

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 24.55 / 84
p0 −0.2361± 0.01111
pull
Entries 85
Mean −840.6
Std Dev 0
pull1D
Entries 85
Mean 0.008895
Std Dev 0.5374

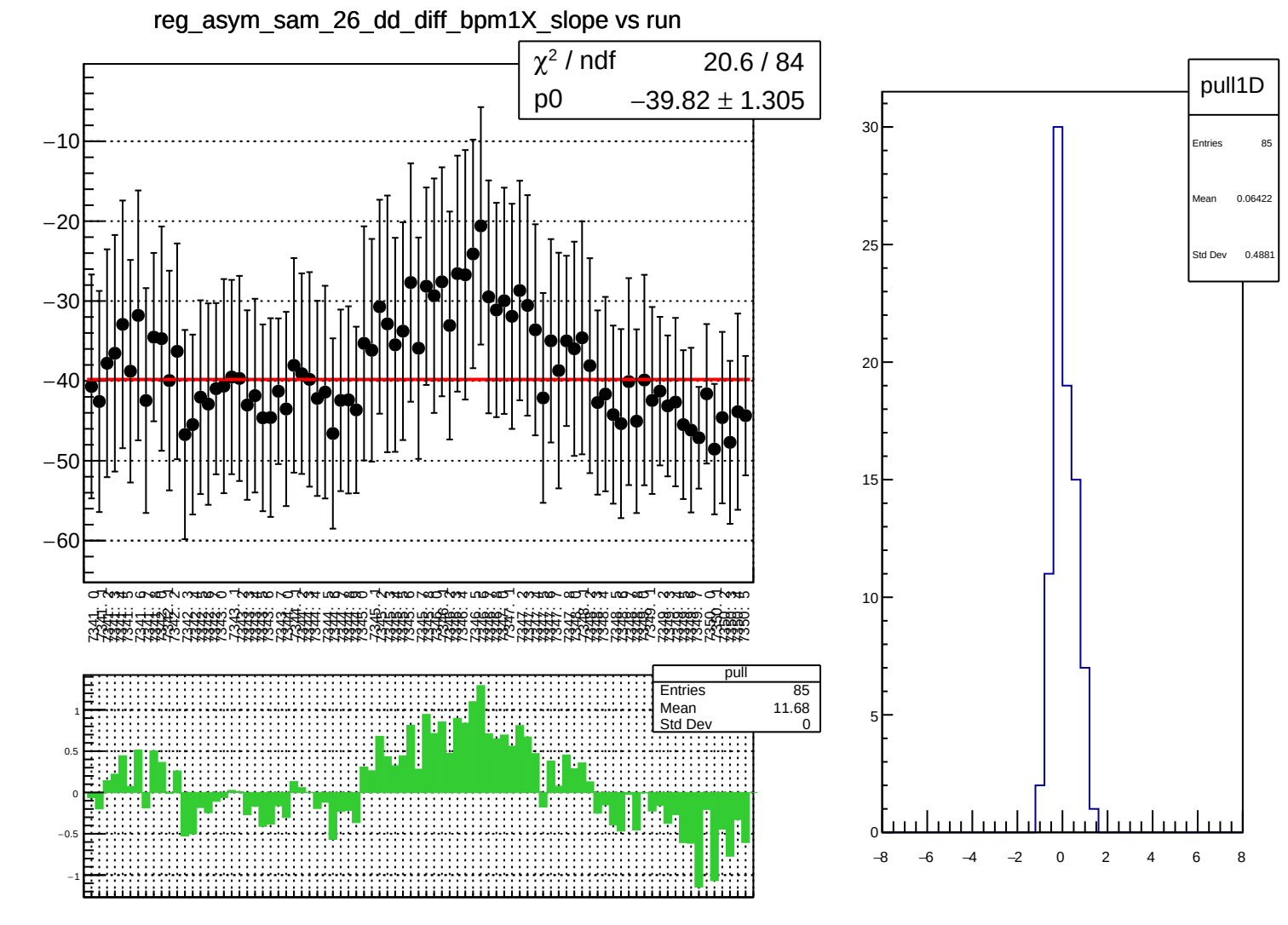

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 121.3 / 84
p0 −16.09 ± 0.3541
pull
Entries 85
Mean −6.617
Std Dev 0
pull1D
Entries 85
Mean 0.1985
Std Dev 1.178

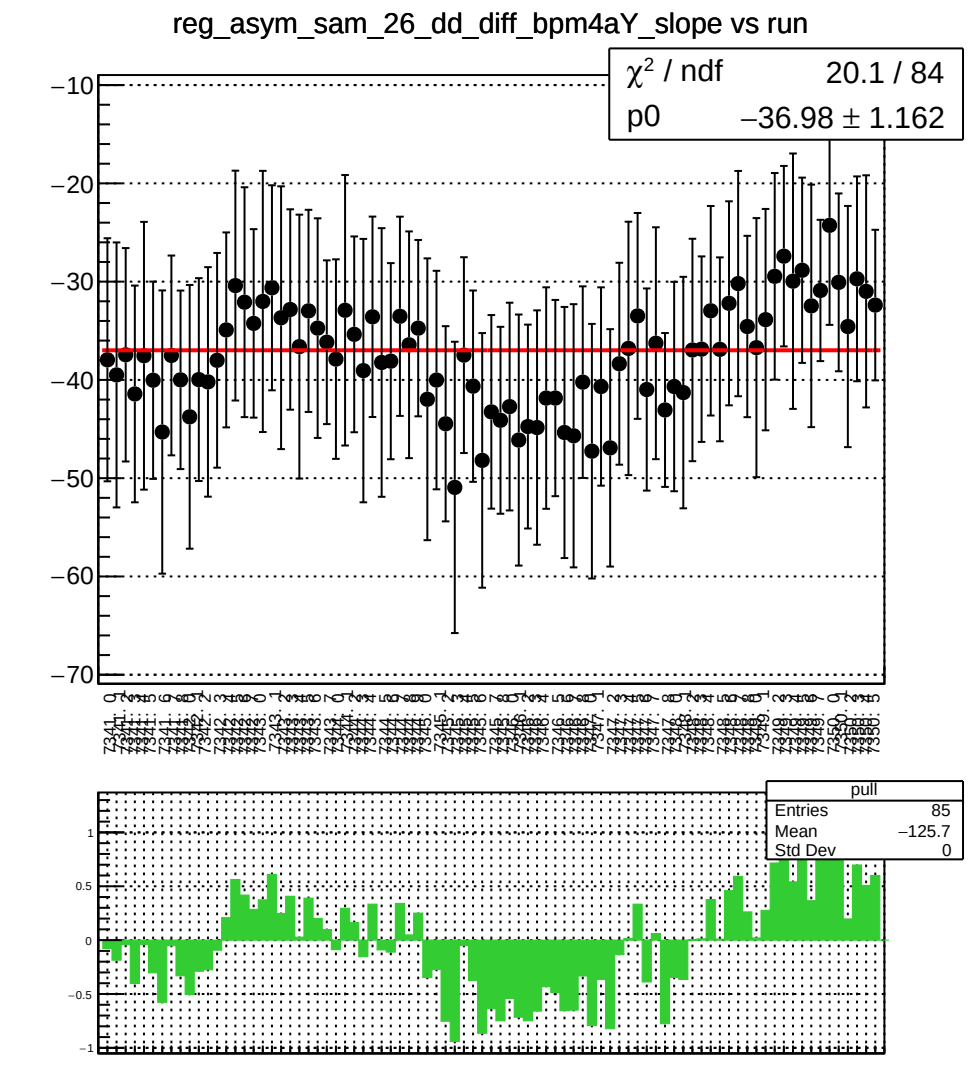

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 48 / 84
p0 8.568 ± 0.316
pull
Entries 85
Mean −282.5
Std Dev 0
pull1D
Entries 85
Mean −0.01984
Std Dev 0.7512

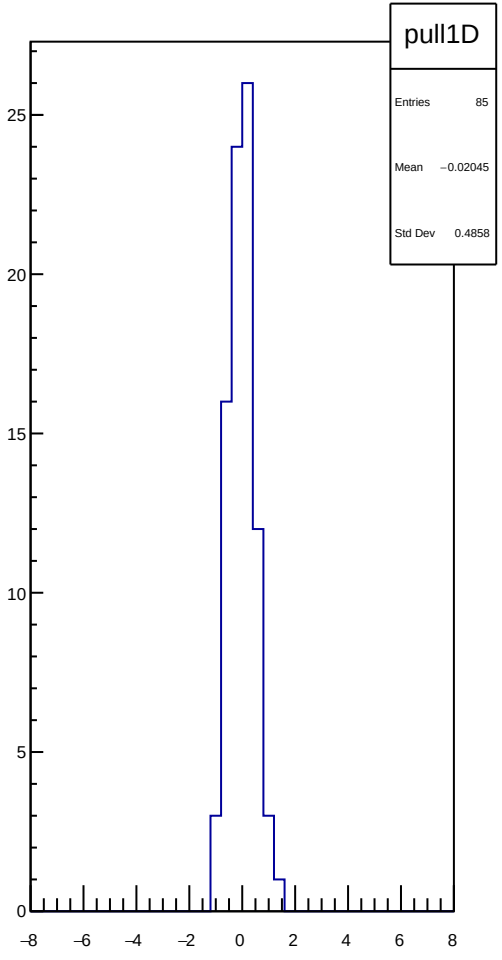

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 251.1 / 84
p0 −32.06 ± 0.3483
pull
Entries 85
Mean −5.921
Std Dev 0
pull1D
Entries 85
Mean −0.3224
Std Dev 1.688

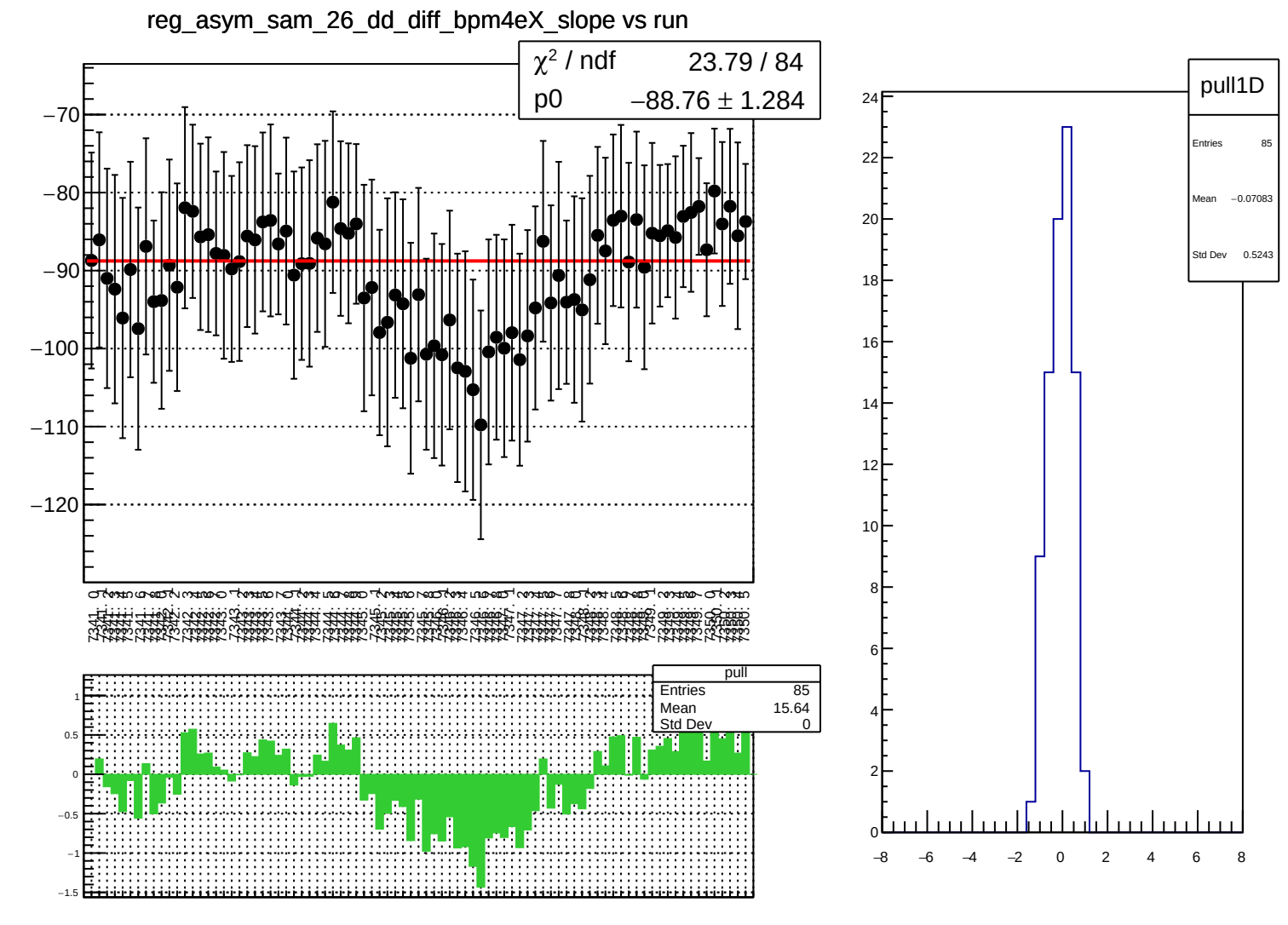

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.9 / 84
p0 −27.86 ± 0.3451
pull
Entries 85
Mean −452.2
Std Dev 0
pull1D
Entries 85
Mean 0.01022
Std Dev 0.9449

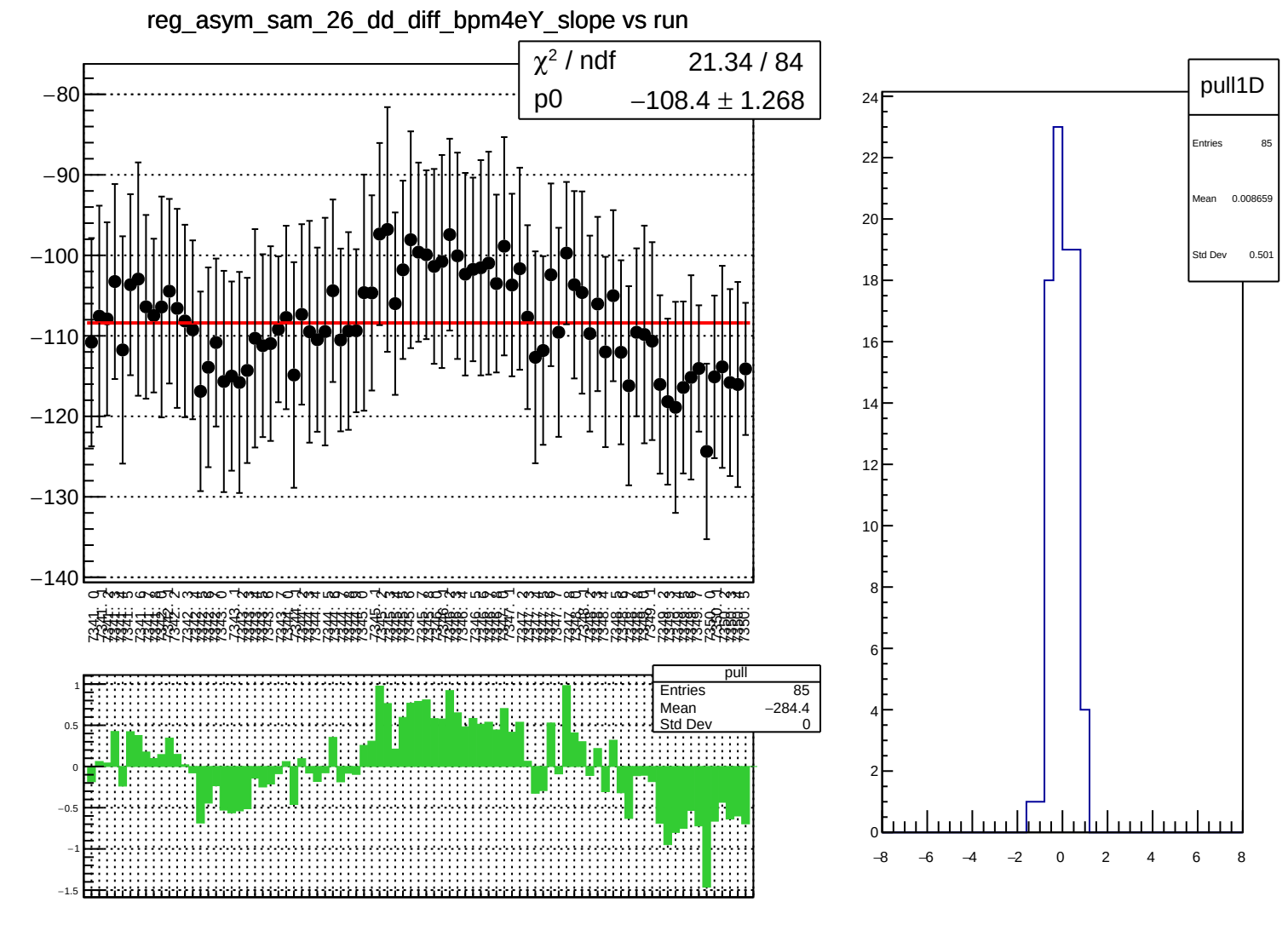

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 22.44 / 84
p0 0.5627 ± 0.01547
pull
Entries 85
Mean −446.8
Std Dev 0
pull1D
Entries 85
Mean 0.01317
Std Dev 0.5136

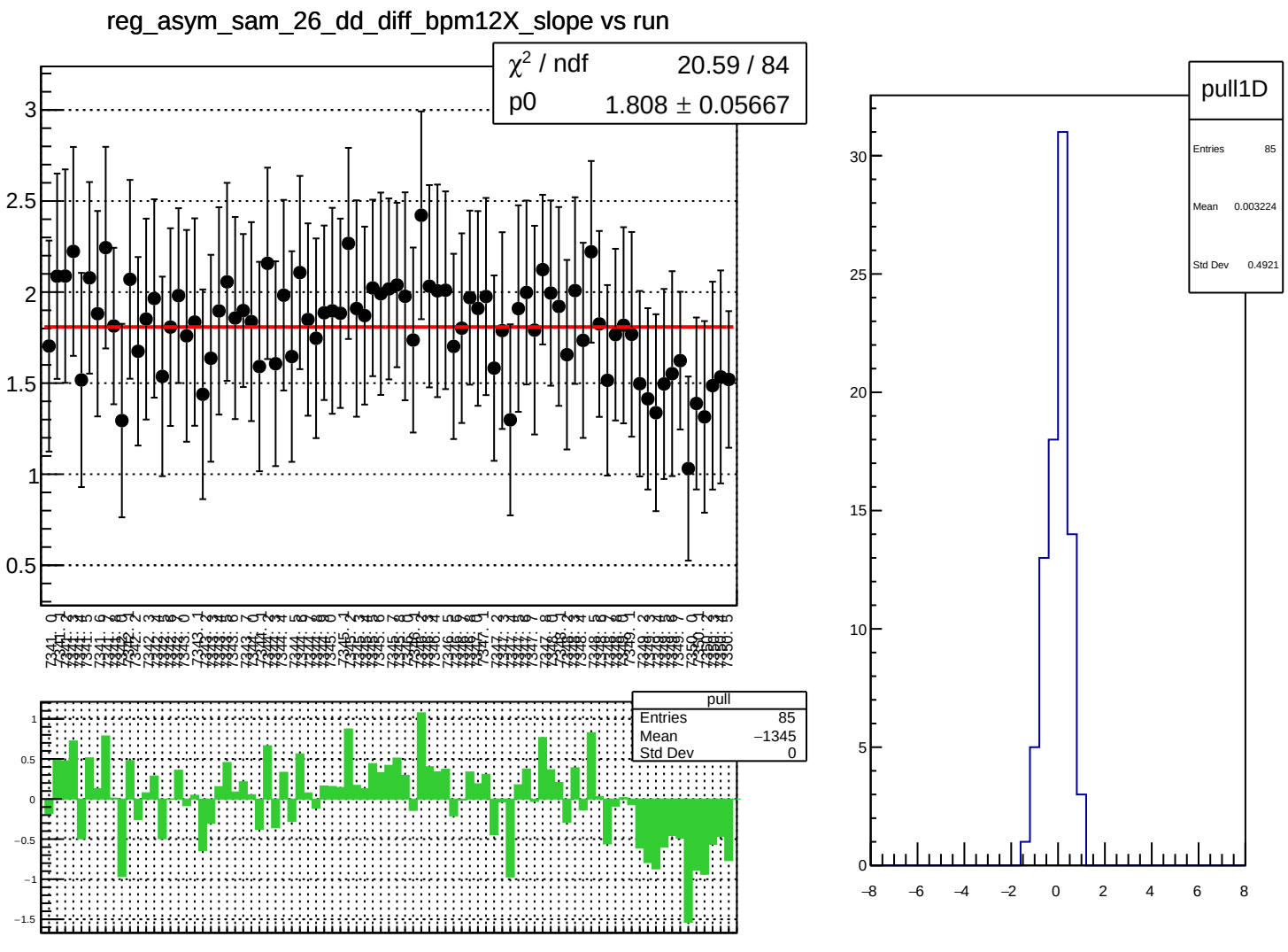

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 20.6 / 84
p0 −39.82 ± 1.305
pull
Entries 85
Mean 11.68
Std Dev 0
pull1D
Entries 85
Mean 0.06422
Std Dev 0.4881

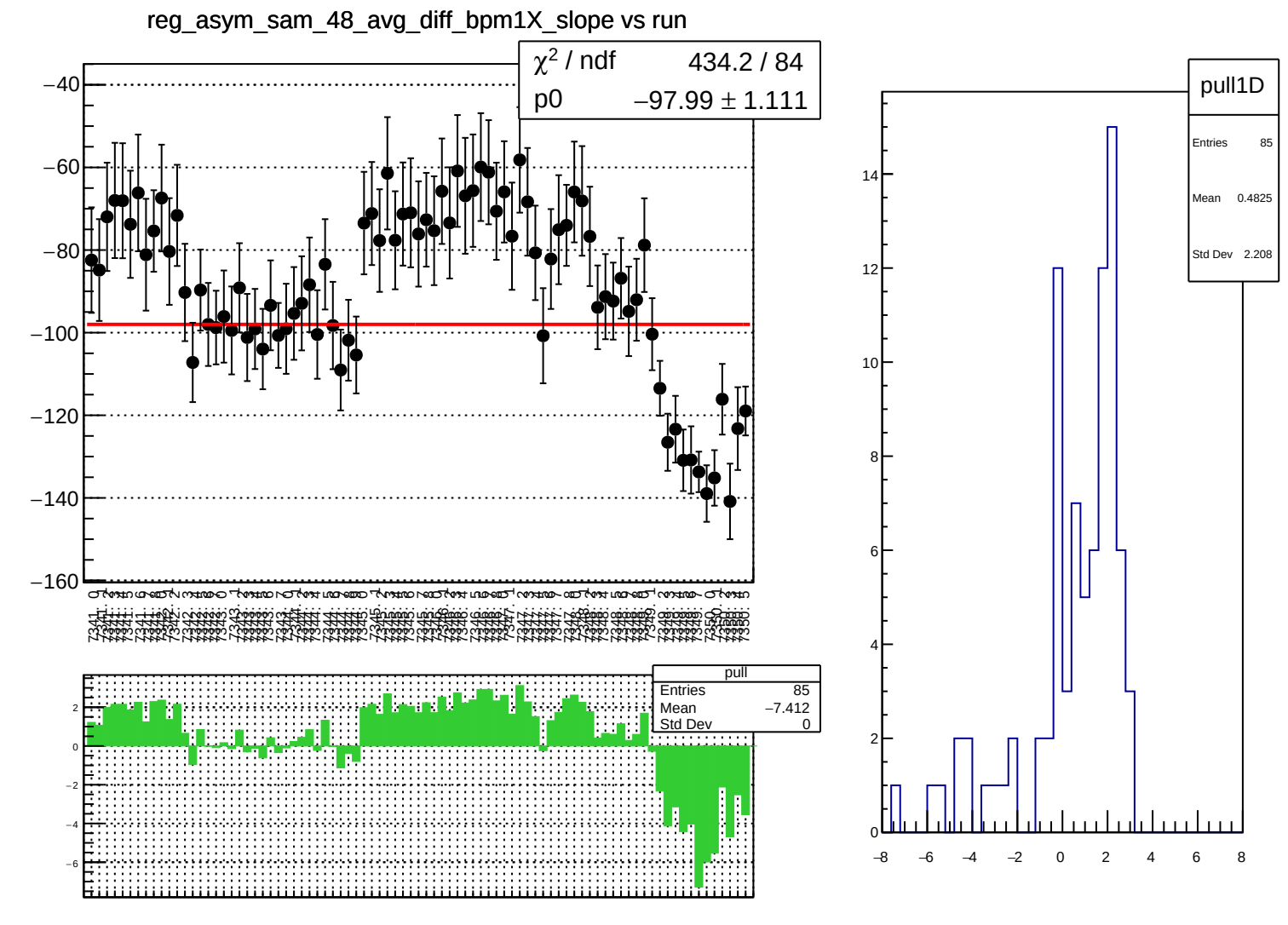

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.1 / 84
p0 −36.98 ± 1.162
pull
Entries 85
Mean −125.7
Std Dev 0

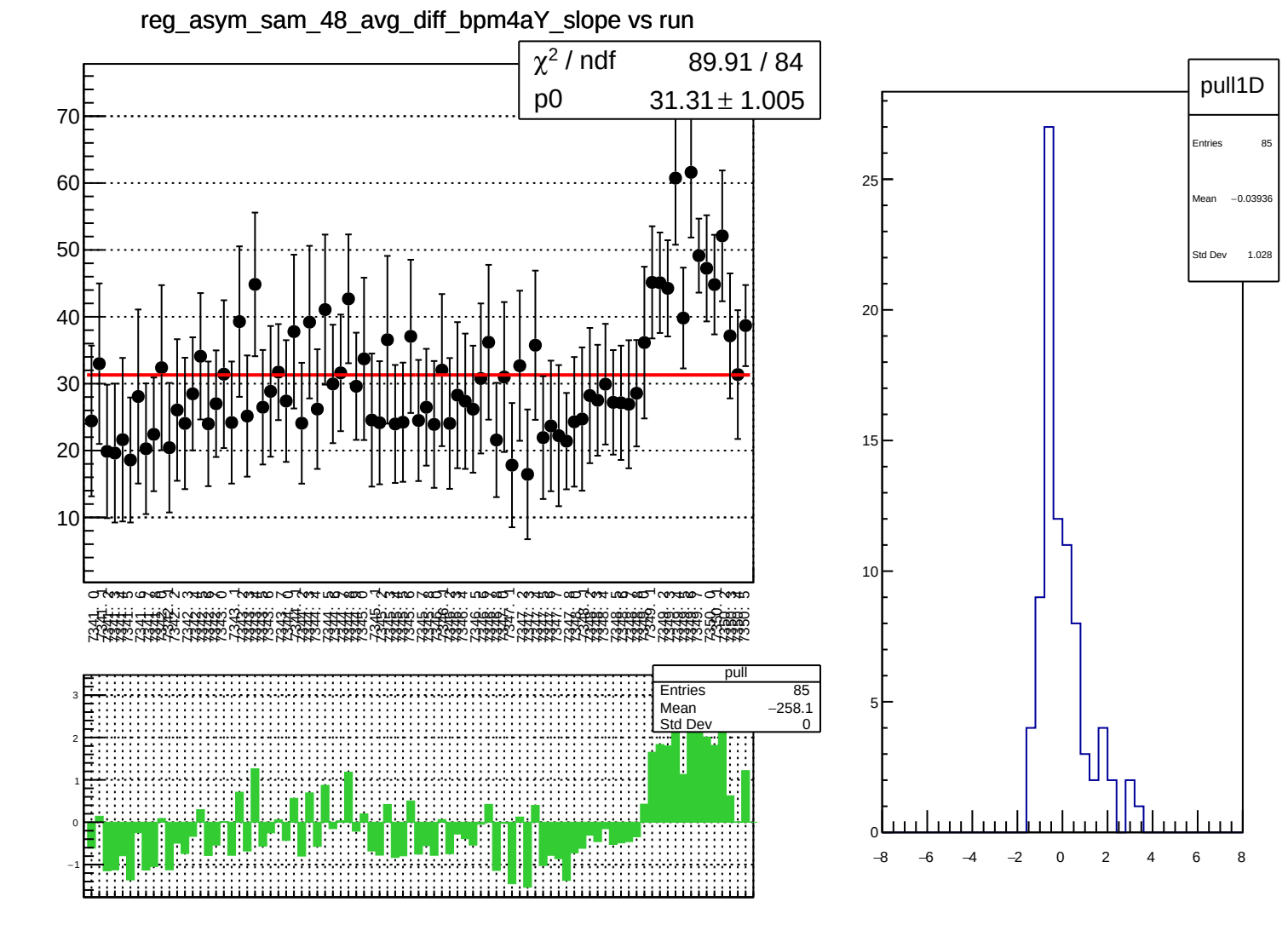

pull1D
Entries 85
Mean −0.02045
Std Dev 0.4858

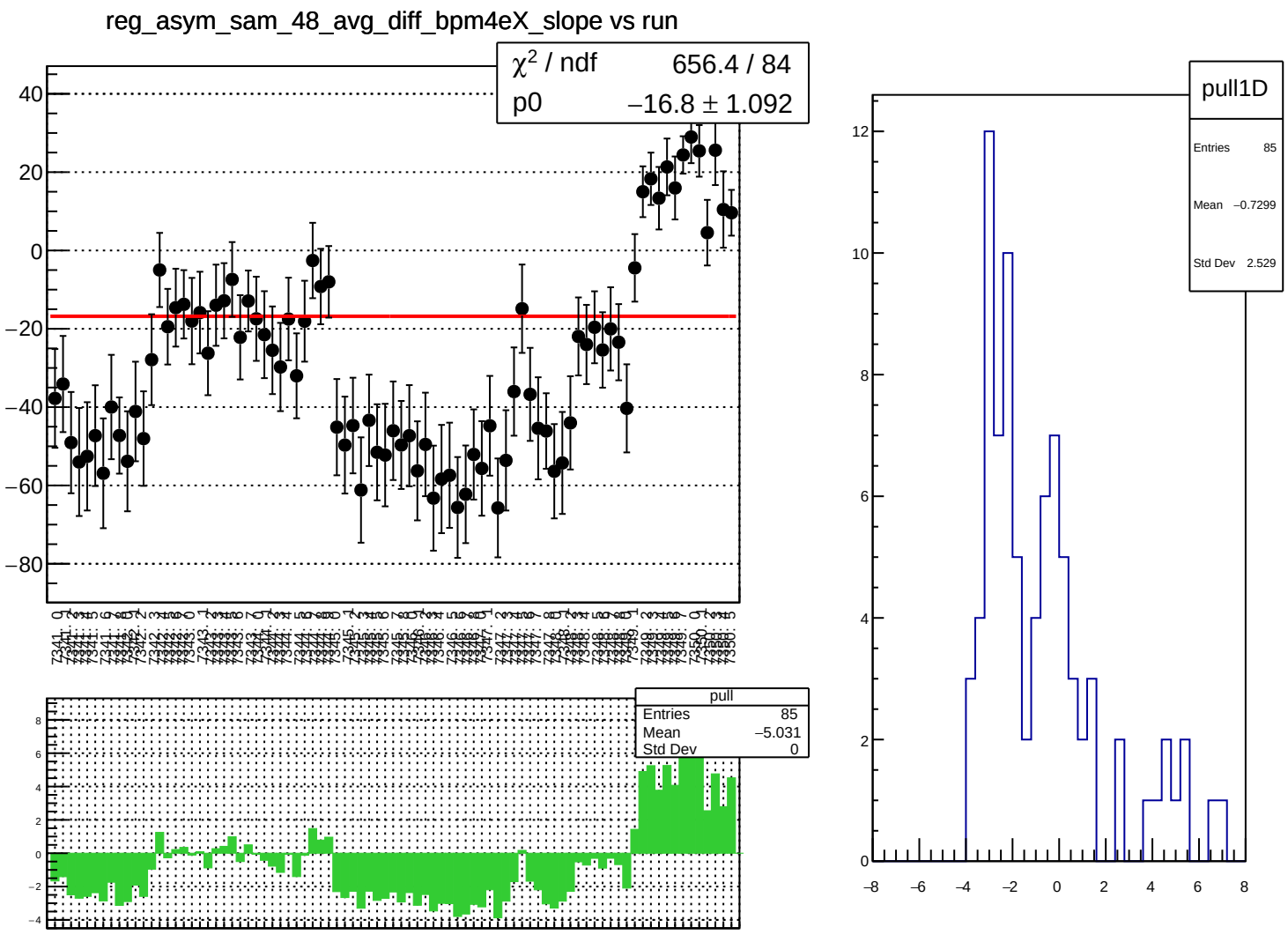

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.79 / 84
p0 −88.76 ± 1.284
pull
Entries 85
Mean 15.64
Std Dev 0
pull1D
Entries 85
Mean −0.07083
Std Dev 0.5243

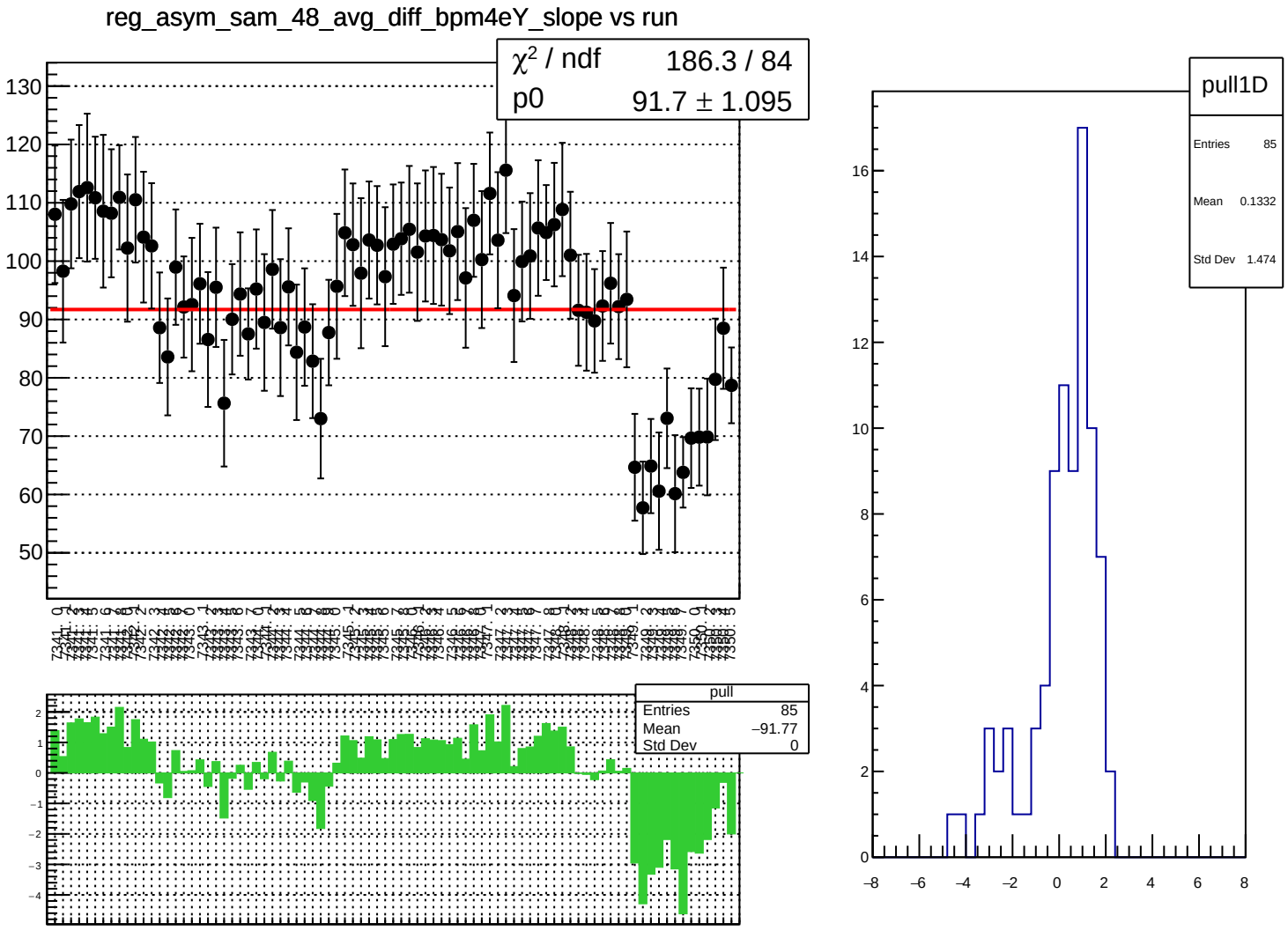

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.34 / 84
p0 −108.4 ± 1.268
pull
Entries 85
Mean −284.4
Std Dev 0
pull1D
Entries 85
Mean 0.008659
Std Dev 0.501

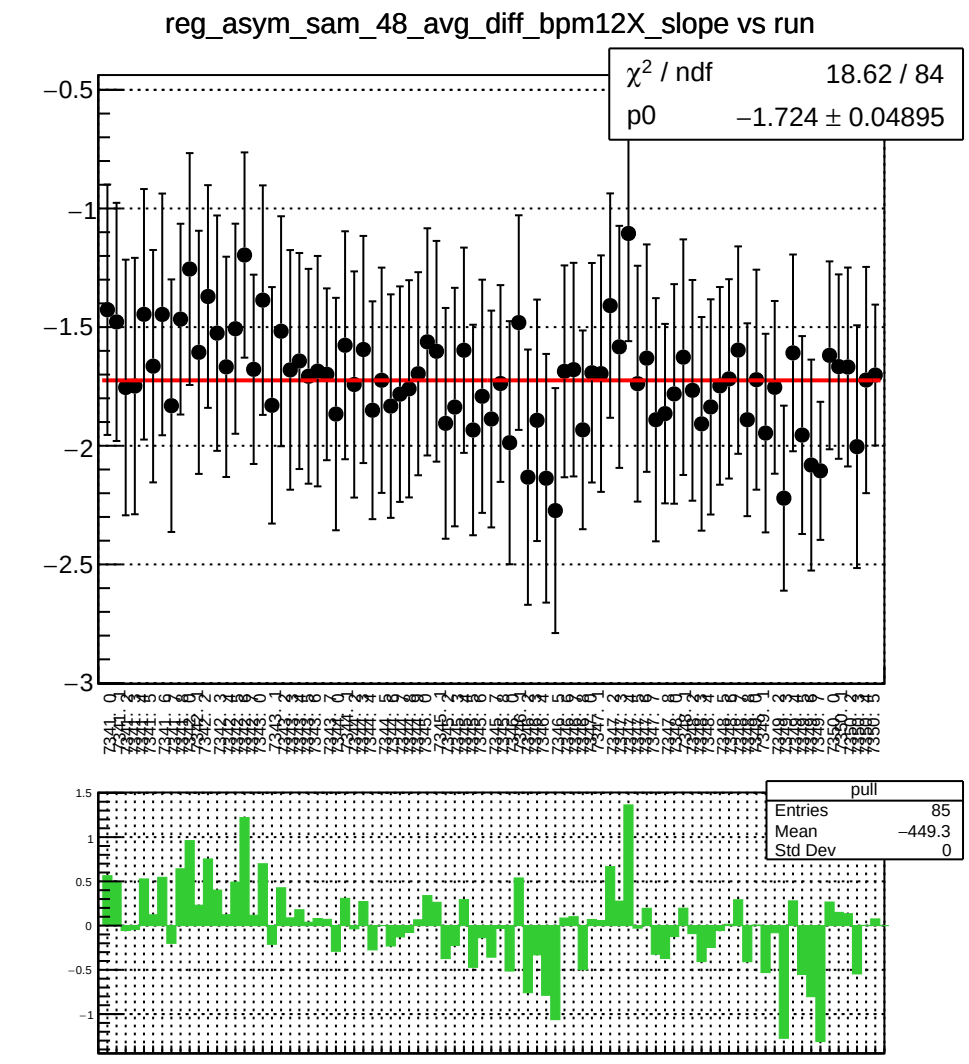

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 20.59 / 84
p0 1.808 ± 0.05667
pull
Entries 85
Mean −1345
Std Dev 0
pull1D
Entries 85
Mean 0.003224
Std Dev 0.4921

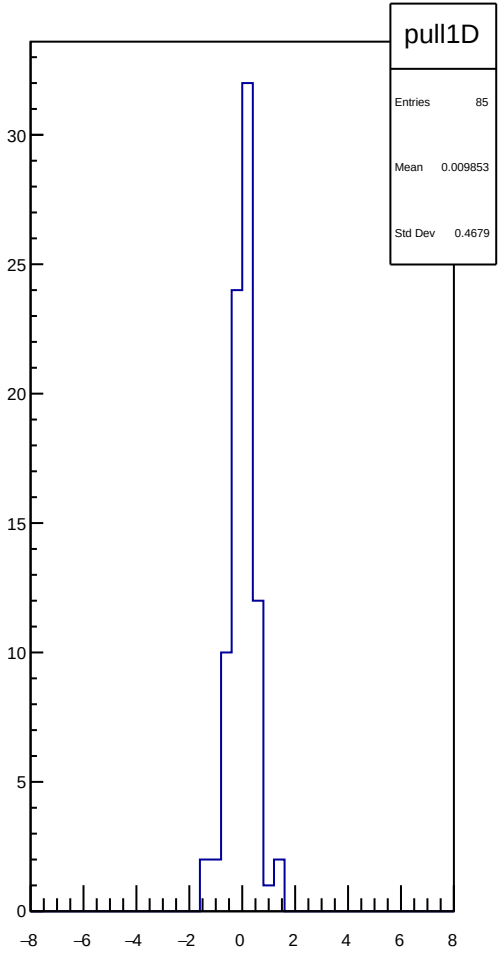

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 434.2 / 84
p0 −97.99 ± 1.111
−40
−60
−80
−100
−120
−140
−160
pull
Entries 85
Mean −7.412
Std Dev 0
2
0
−2
−4
−6
pull1D
Entries 85
Mean 0.4825
Std Dev 2.208
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

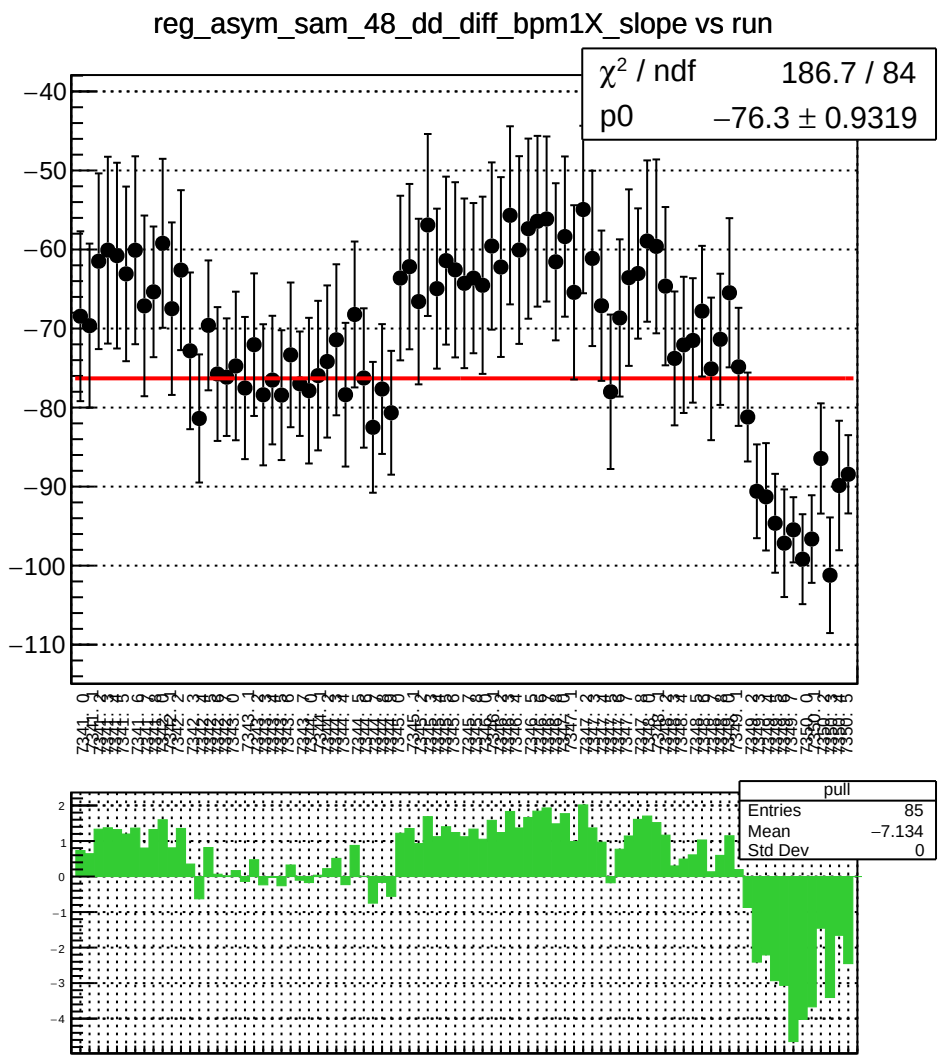

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.91 / 84
p0 31.31 ± 1.005
pull
Entries 85
Mean −258.1
Std Dev 0
pull1D
Entries 85
Mean −0.03936
Std Dev 1.028

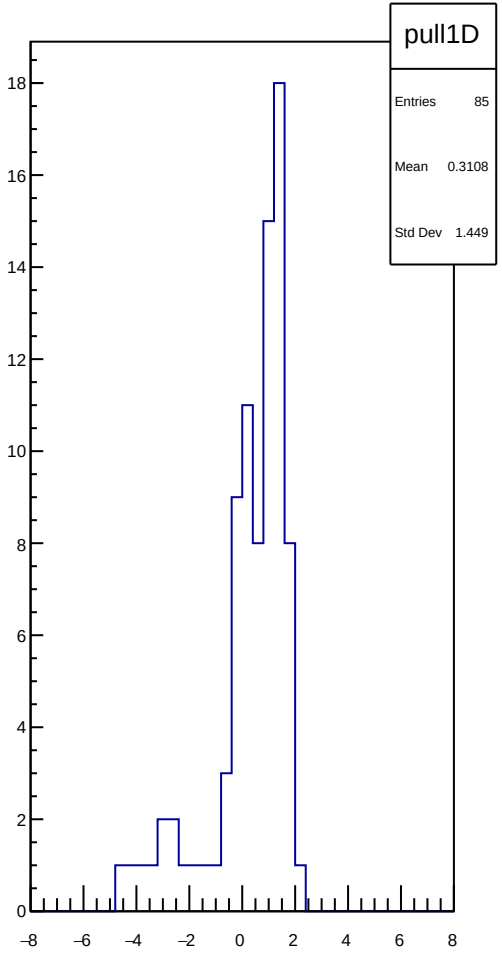

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 656.4 / 84
p0 −16.8 ± 1.092
pull
Entries 85
Mean −5.031
Std Dev 0
pull1D
Entries 85
Mean −0.7299
Std Dev 2.529

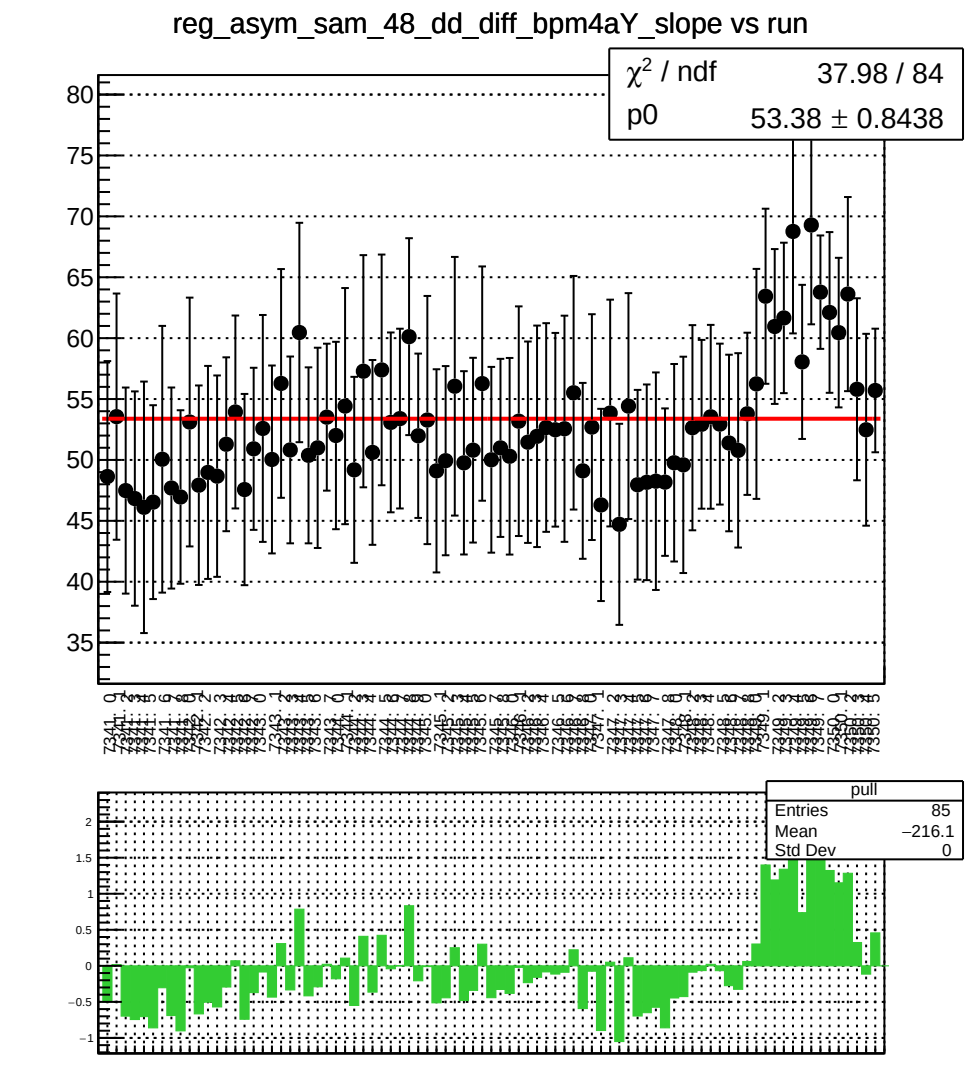

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 186.3 / 84
p0 91.7 ± 1.095
pull
Entries 85
Mean −91.77
Std Dev 0
pull1D
Entries 85
Mean 0.1332
Std Dev 1.474

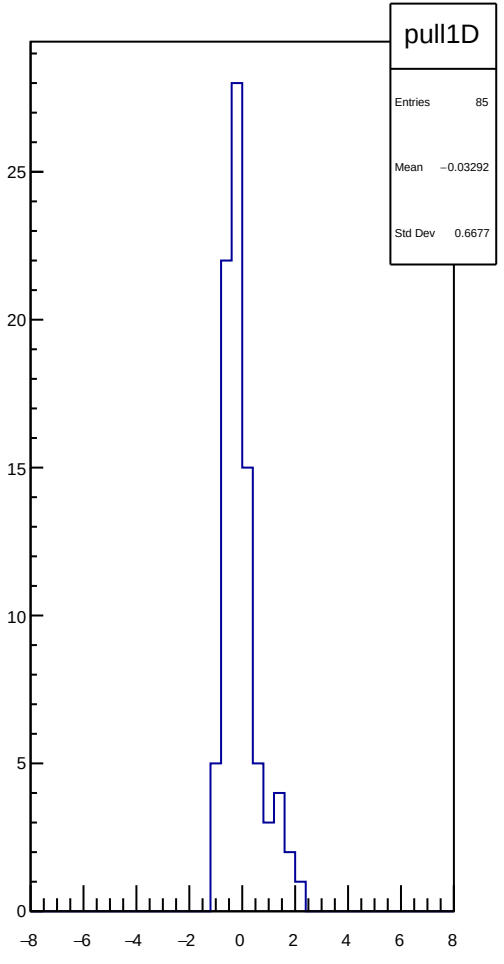

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 18.62 / 84
p0 −1.724 ± 0.04895
pull
Entries 85
Mean −449.3
Std Dev 0

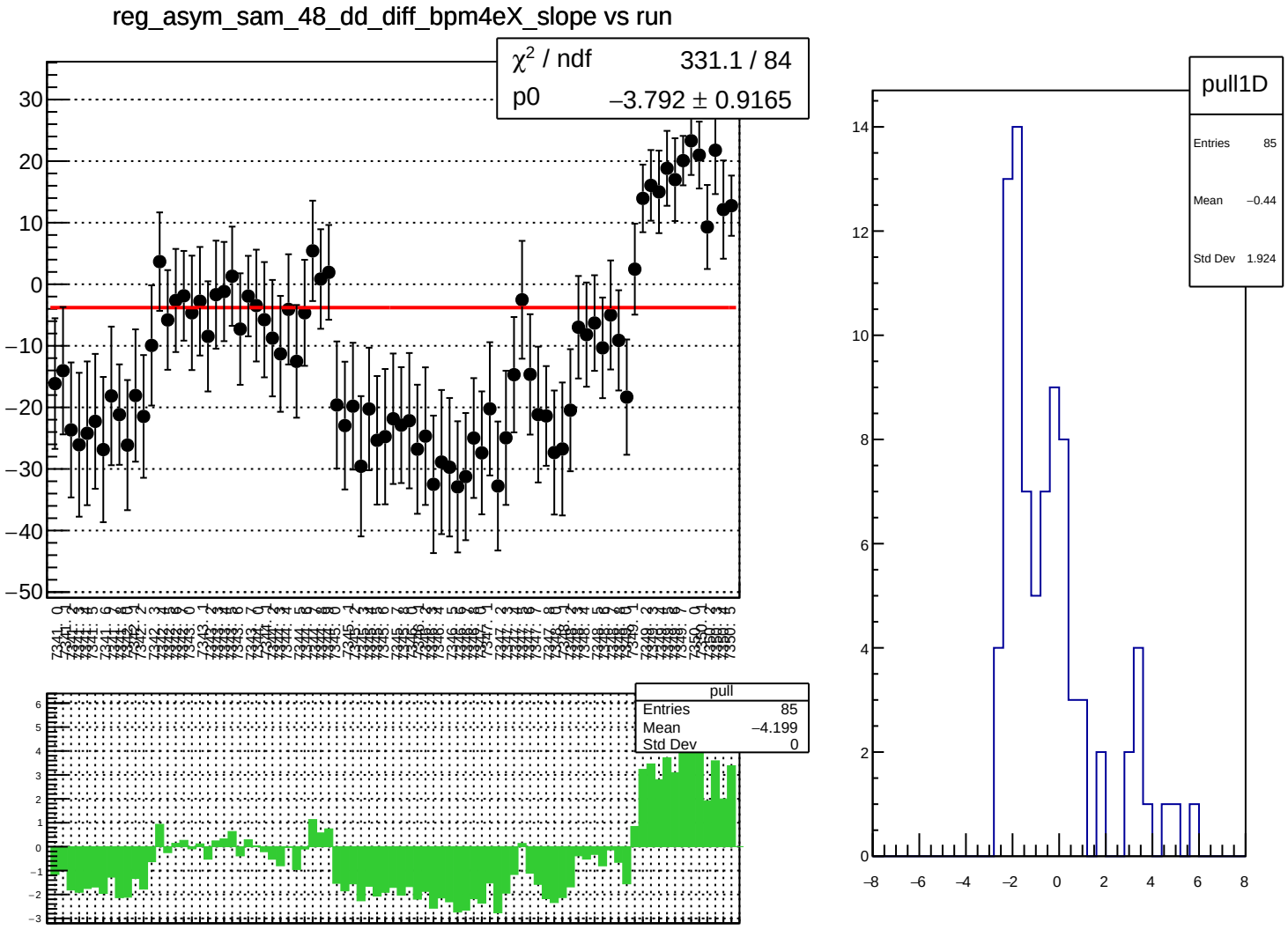

pull1D
Entries 85
Mean 0.009853
Std Dev 0.4679

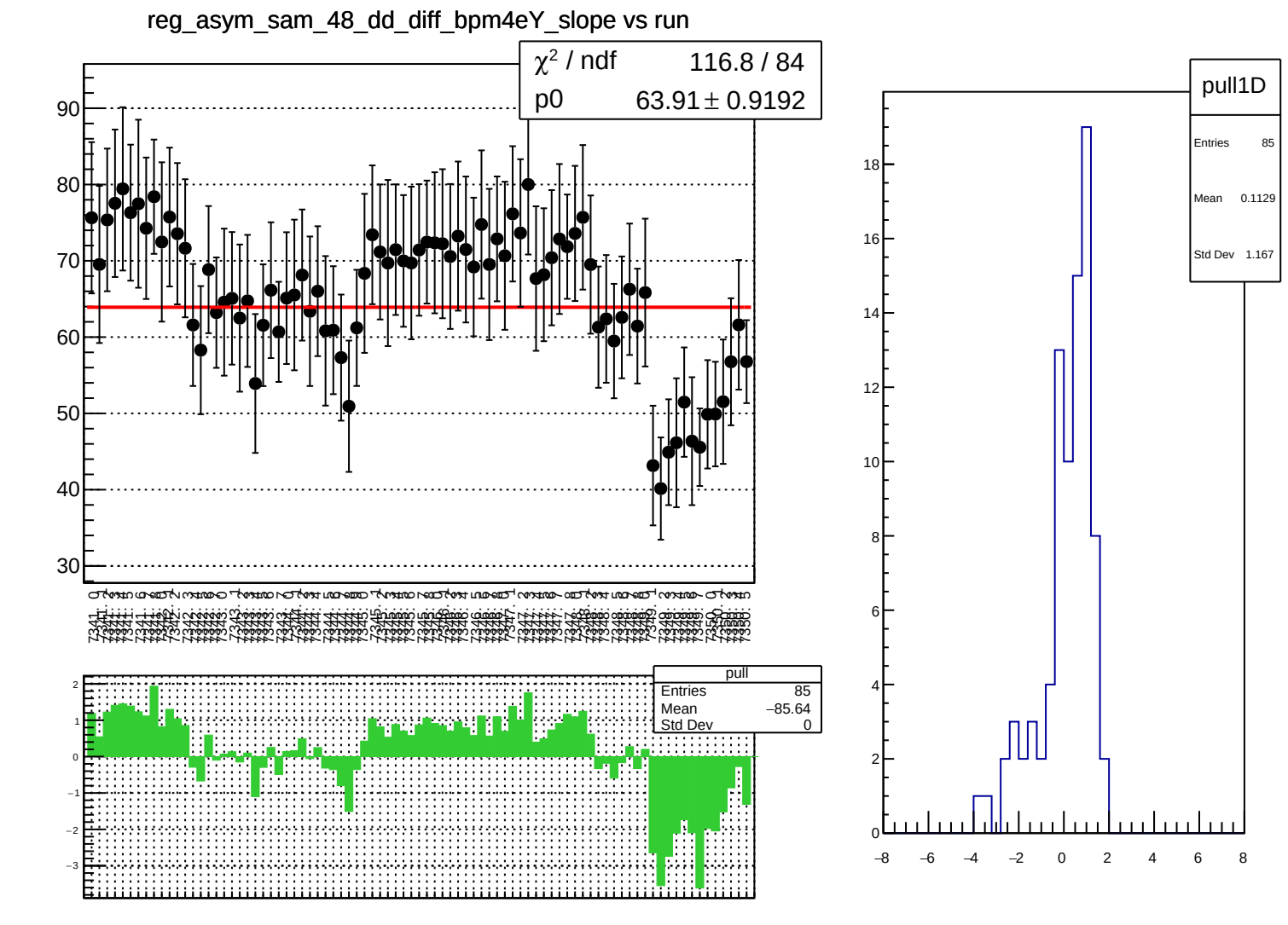

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 186.7 / 84
p0 −76.3 ± 0.9319
pull
Entries 85
Mean −7.134
Std Dev 0

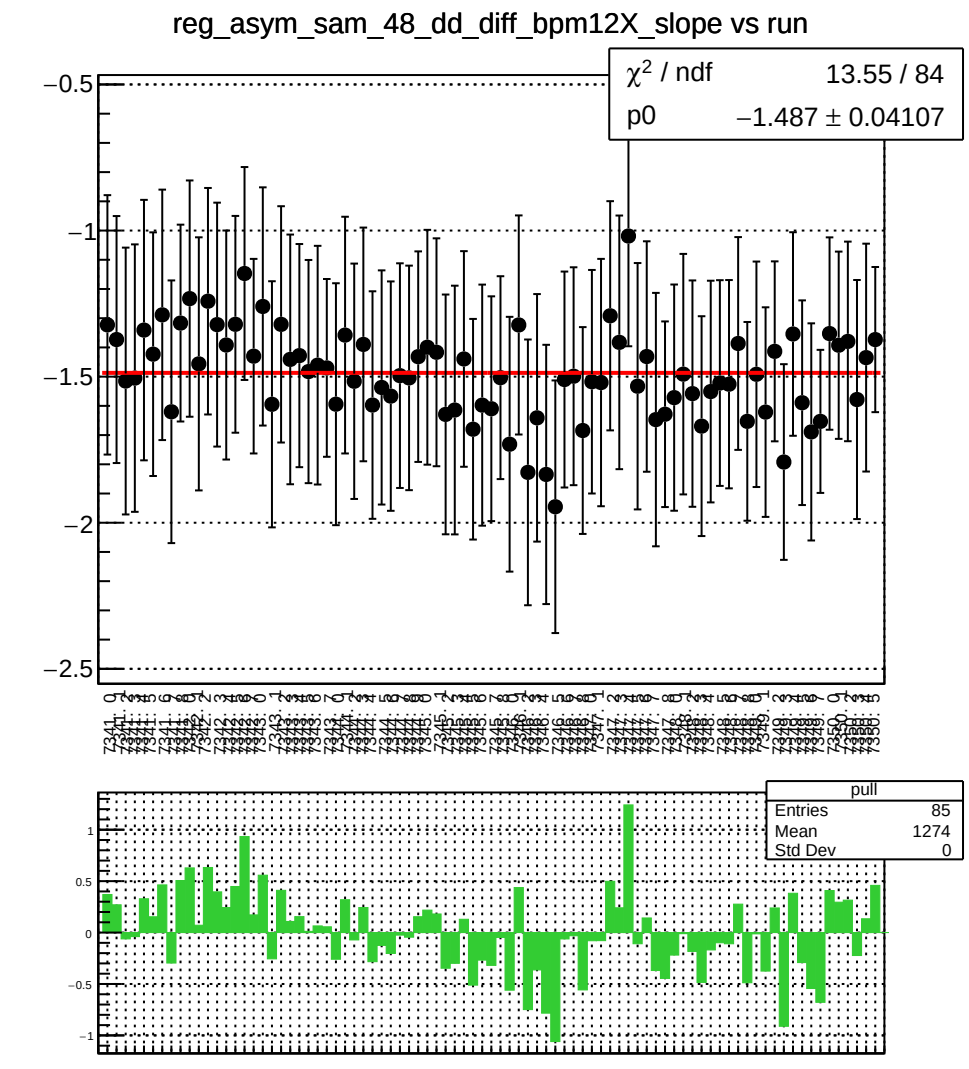

pull1D
Entries 85
Mean 0.3108
Std Dev 1.449

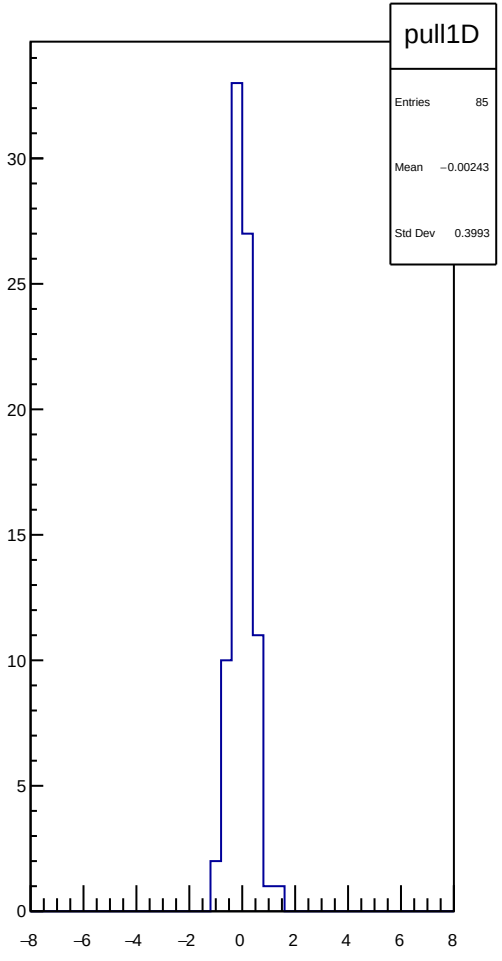

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.98 / 84
p0 53.38 ± 0.8438
pull
Entries 85
Mean −216.1
Std Dev 0

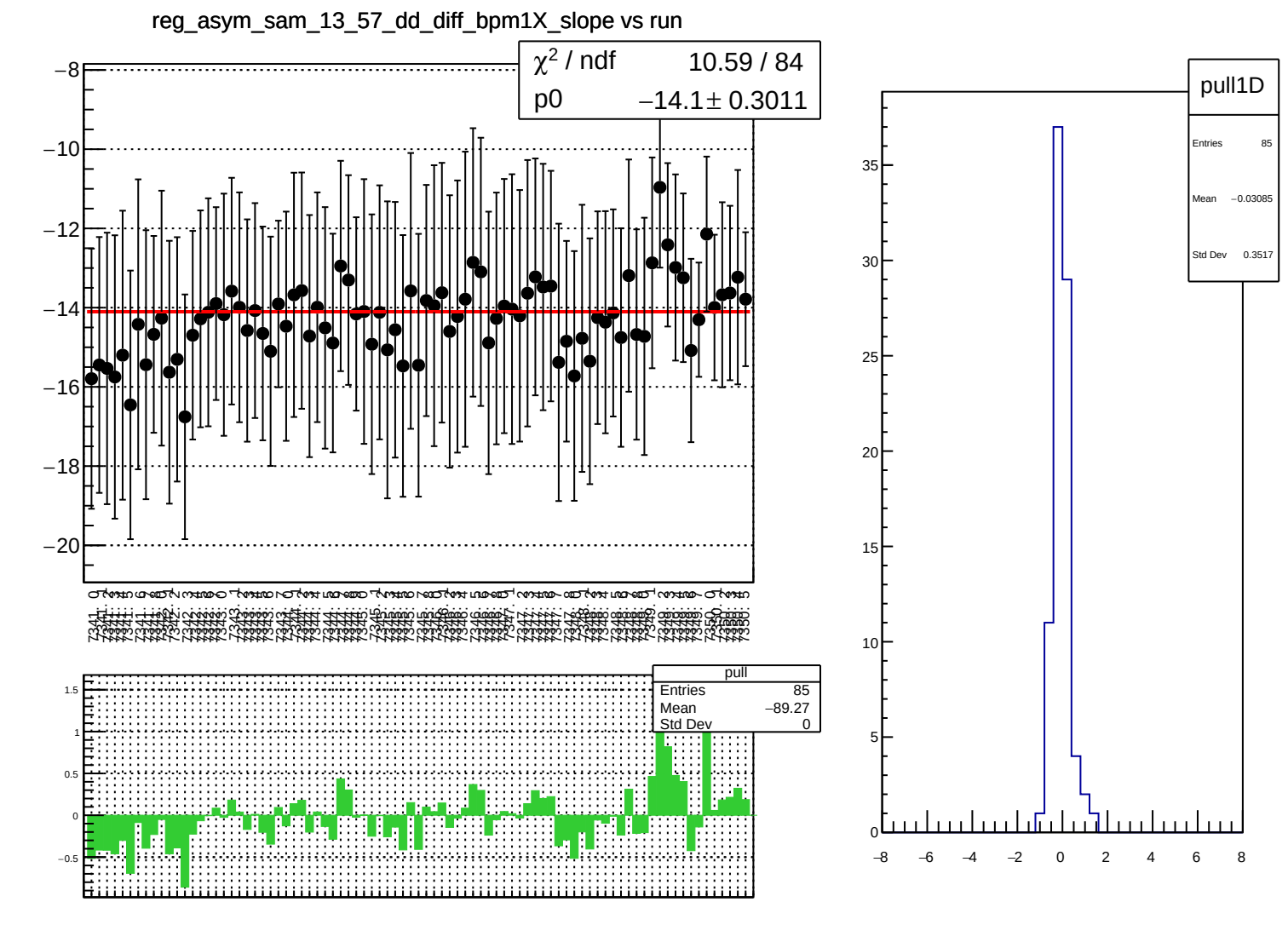

pull1D
Entries 85
Mean −0.03292
Std Dev 0.6677

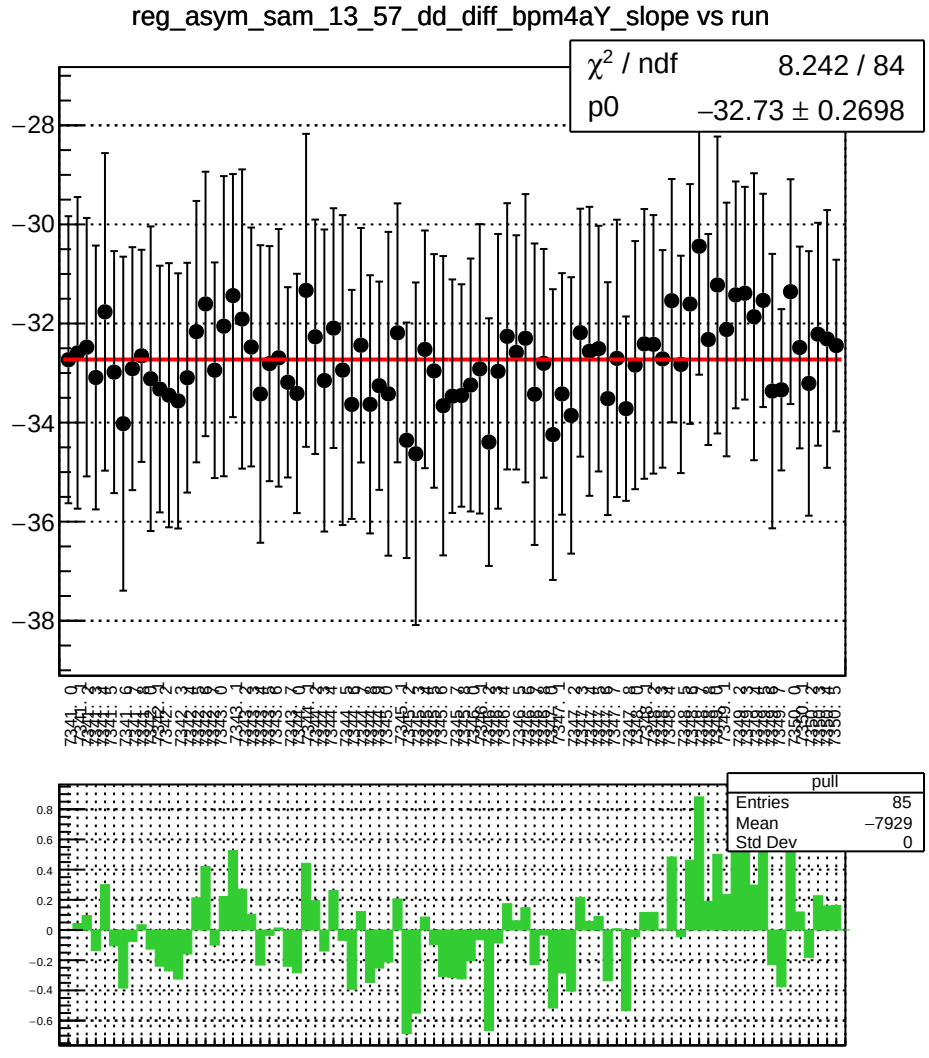

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 331.1 / 84
p0 −3.792 ± 0.9165
pull
Entries 85
Mean −4.199
Std Dev 0
pull1D
Entries 85
Mean −0.44
Std Dev 1.924

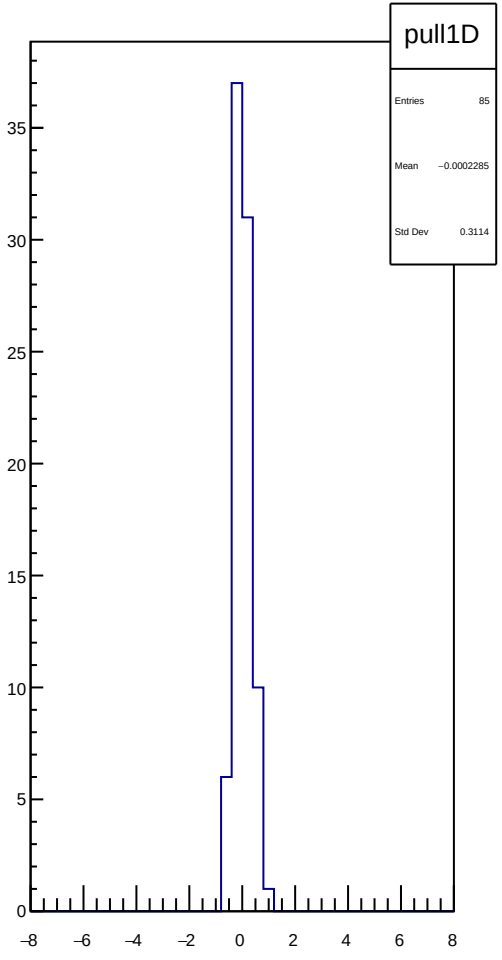

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 116.8 / 84
p0 63.91 ± 0.9192
pull
Entries 85
Mean −85.64
Std Dev 0
pull1D
Entries 85
Mean 0.1129
Std Dev 1.167

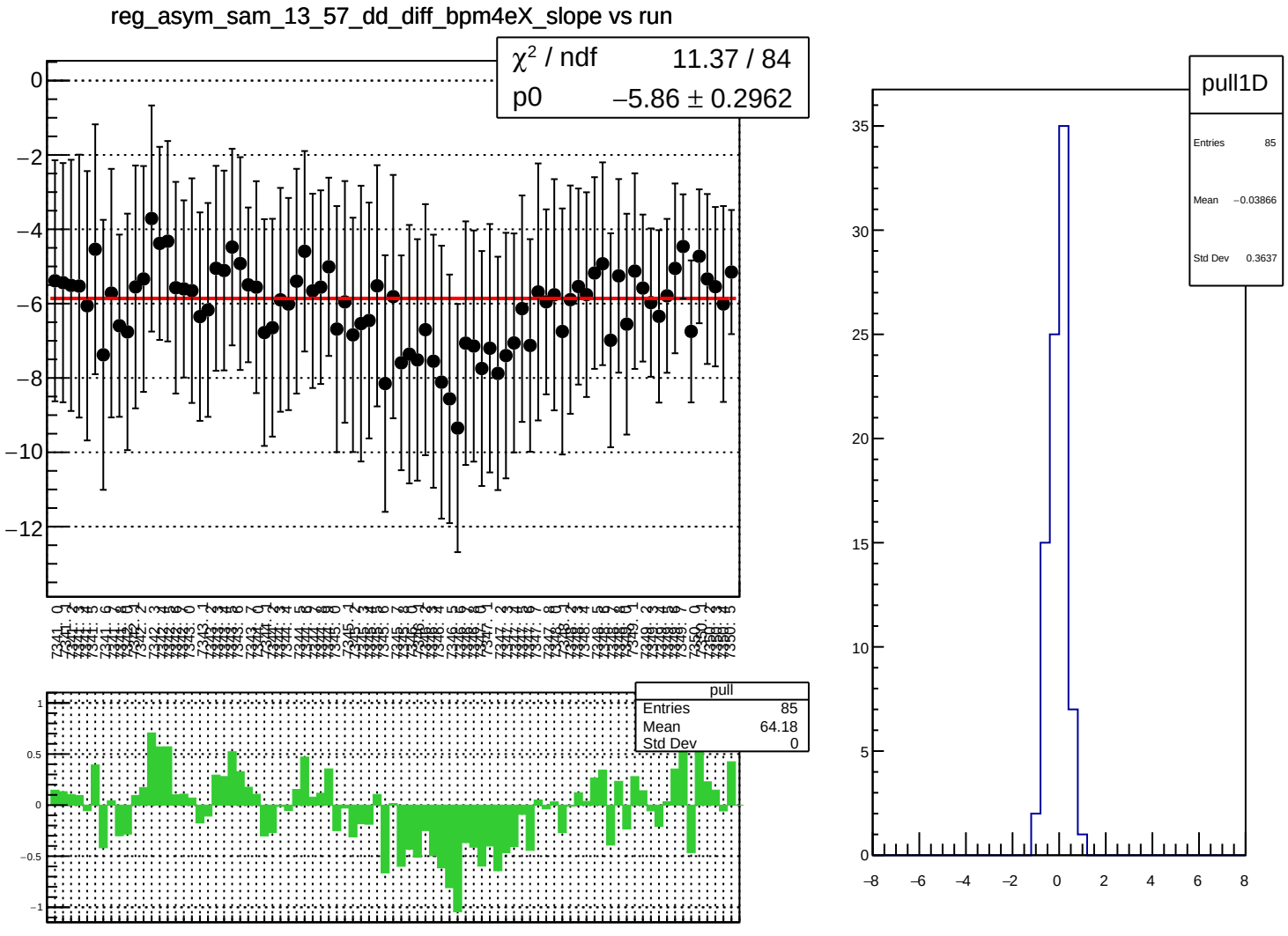

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 13.55 / 84
p0 −1.487 ± 0.04107
pull
Entries 85
Mean 1274
Std Dev 0

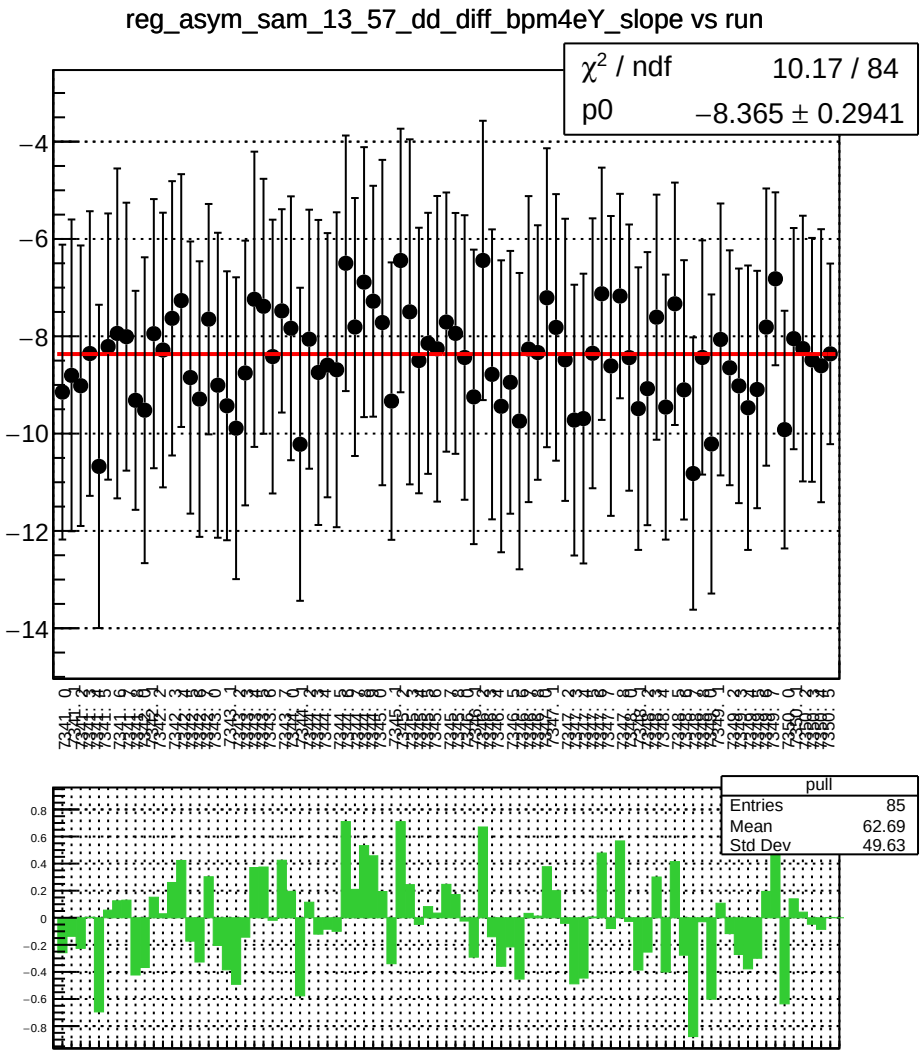

pull1D
Entries 85
Mean −0.00243
Std Dev 0.3993

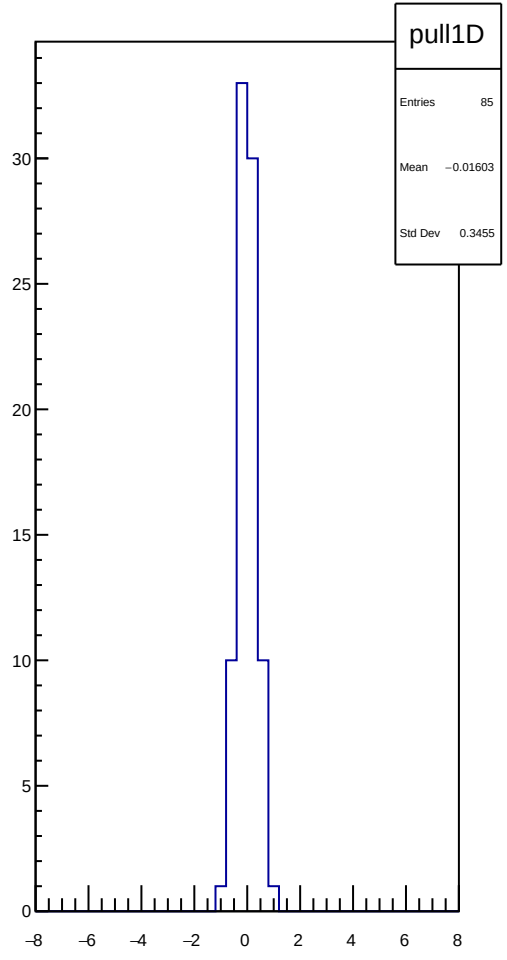

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 10.59 / 84
p0 −14.1± 0.3011
pull
Entries 85
Mean −89.27
Std Dev 0
pull1D
Entries 85
Mean −0.03085
Std Dev 0.3517

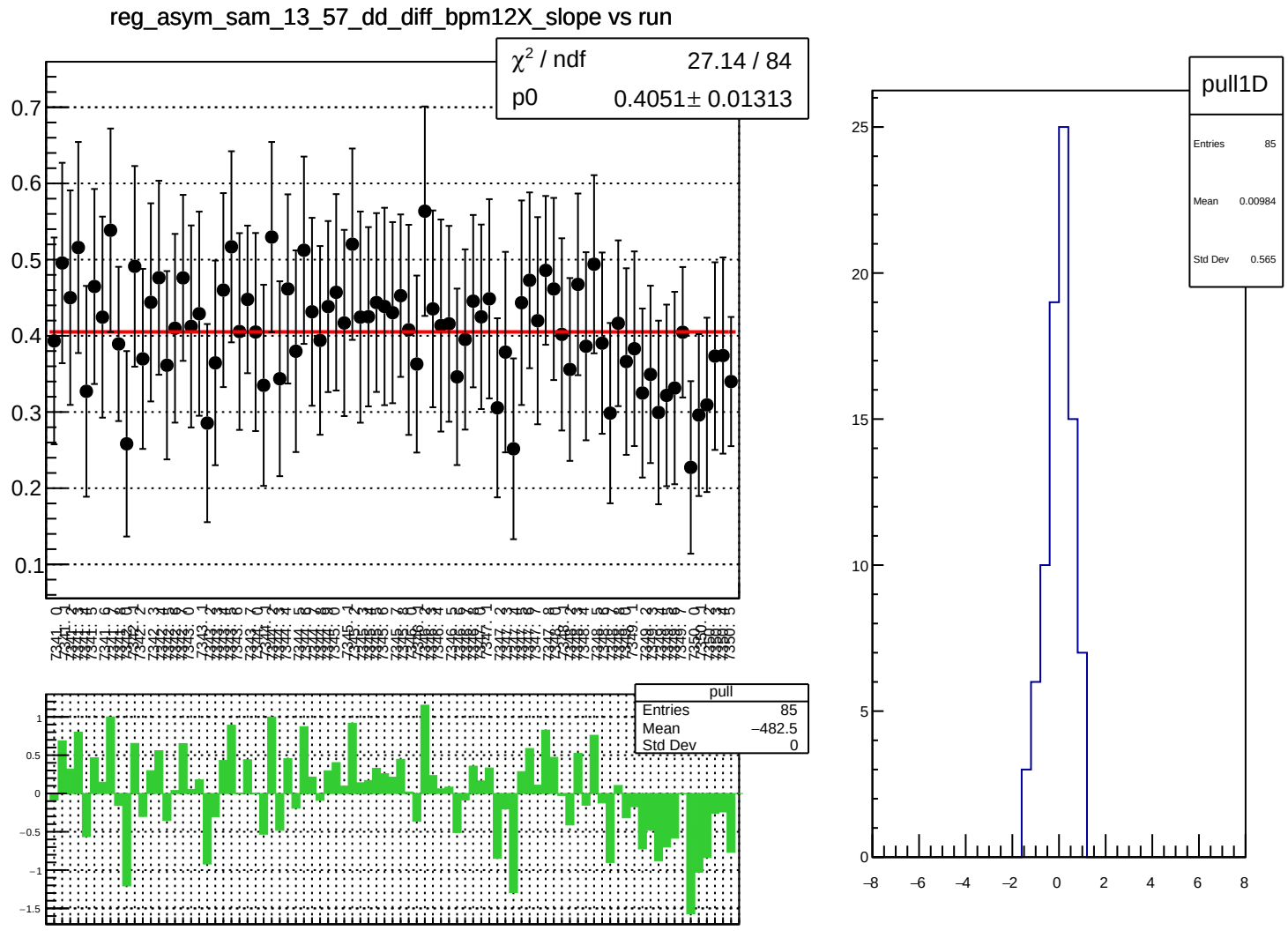

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.242 / 84
p0 −32.73 ± 0.2698
pull
Entries 85
Mean −7929
Std Dev 0

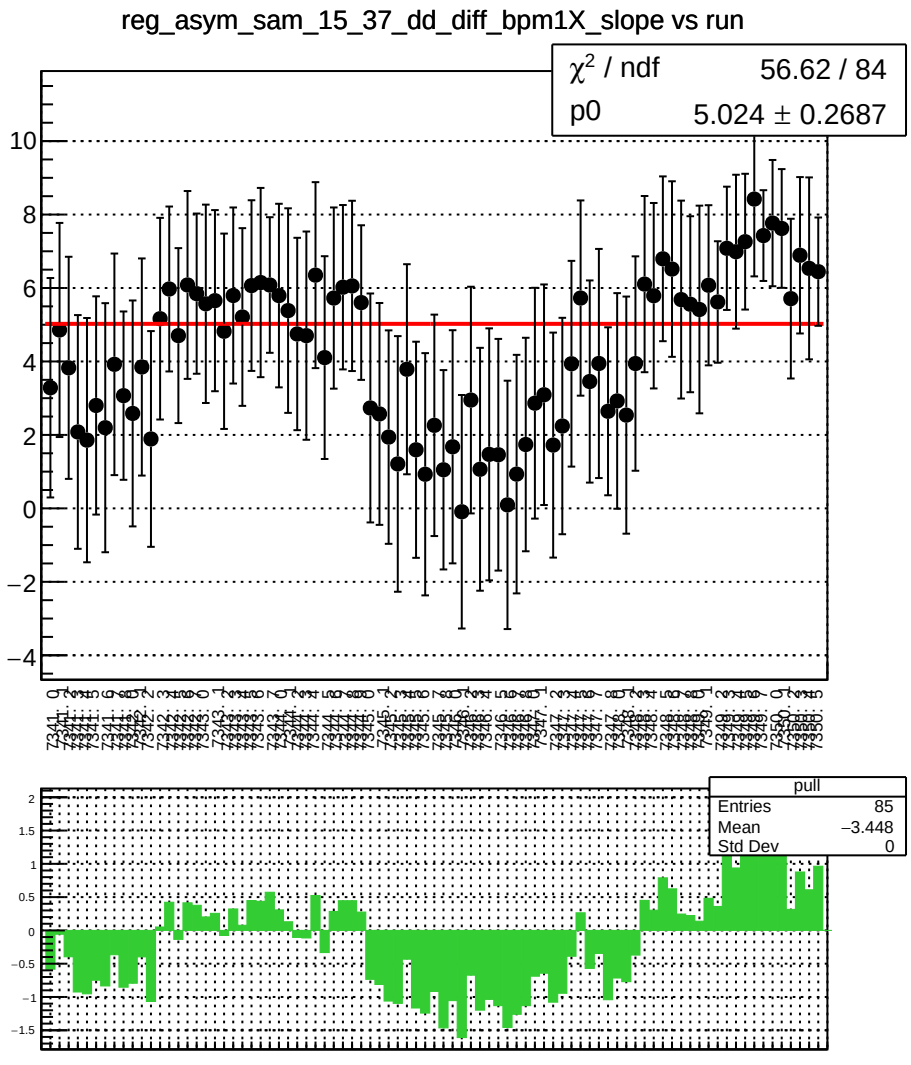

pull1D
Entries 85
Mean −0.0002285
Std Dev 0.3114

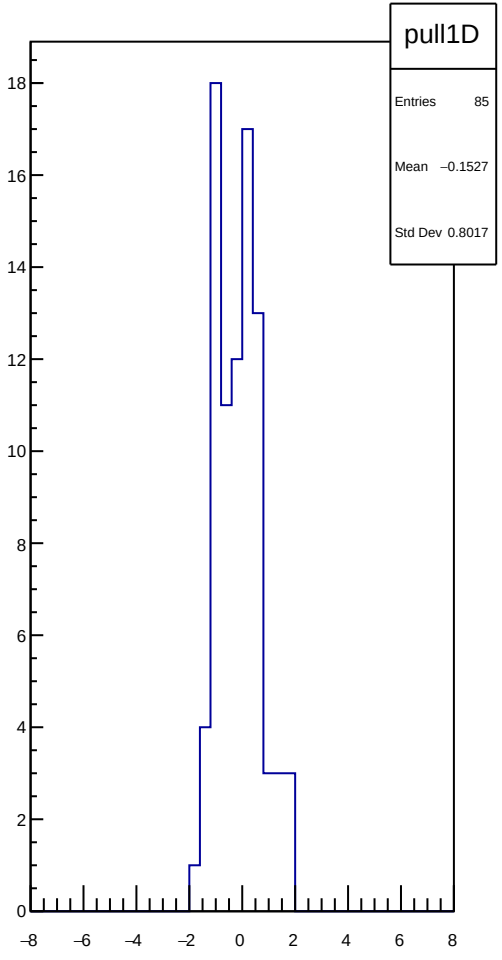

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.37 / 84
p0 −5.86 ± 0.2962
pull
Entries 85
Mean 64.18
Std Dev 0
pull1D
Entries 85
Mean −0.03866
Std Dev 0.3637

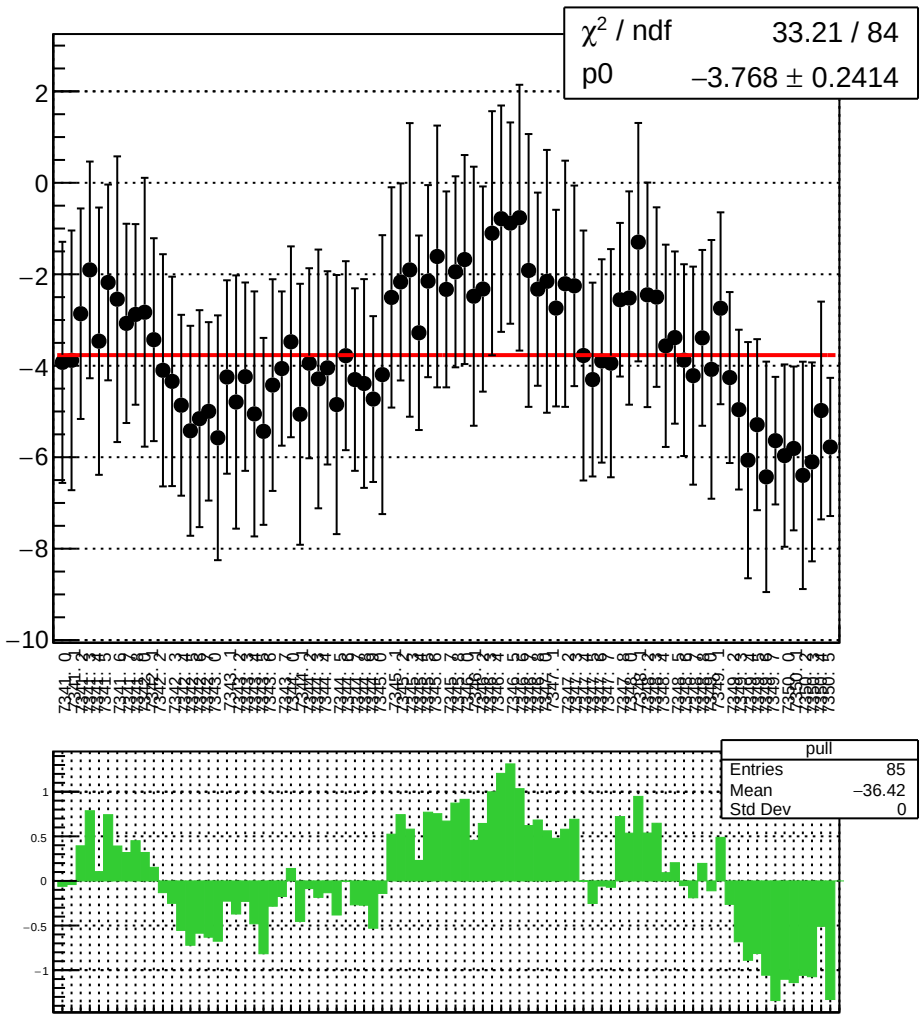

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.17 / 84
p0 −8.365 ± 0.2941
pull
Entries 85
Mean 62.69
Std Dev 49.63

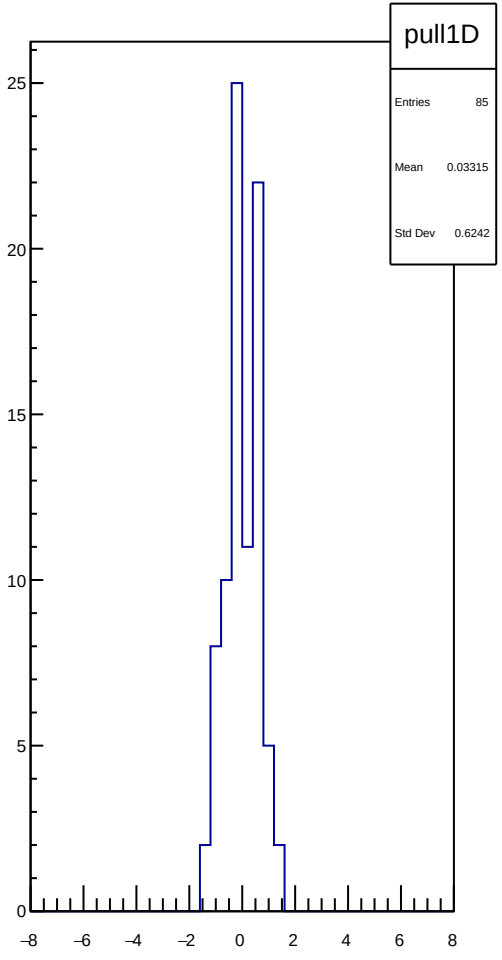

pull1D
Entries 85
Mean −0.01603
Std Dev 0.3455

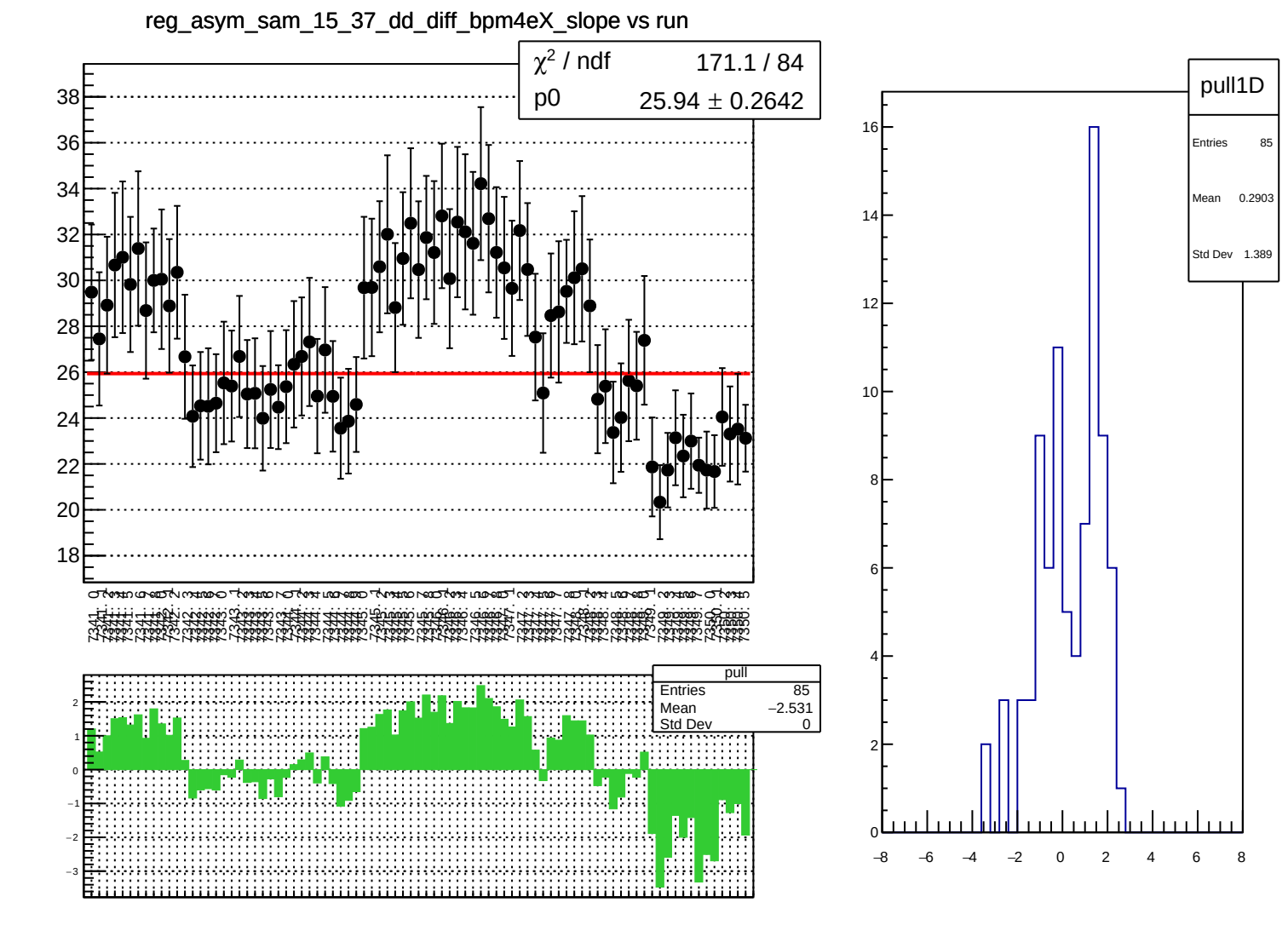

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 27.14 / 84
p0 0.4051± 0.01313
pull
Entries 85
Mean −482.5
Std Dev 0
pull1D
Entries 85
Mean 0.00984
Std Dev 0.565

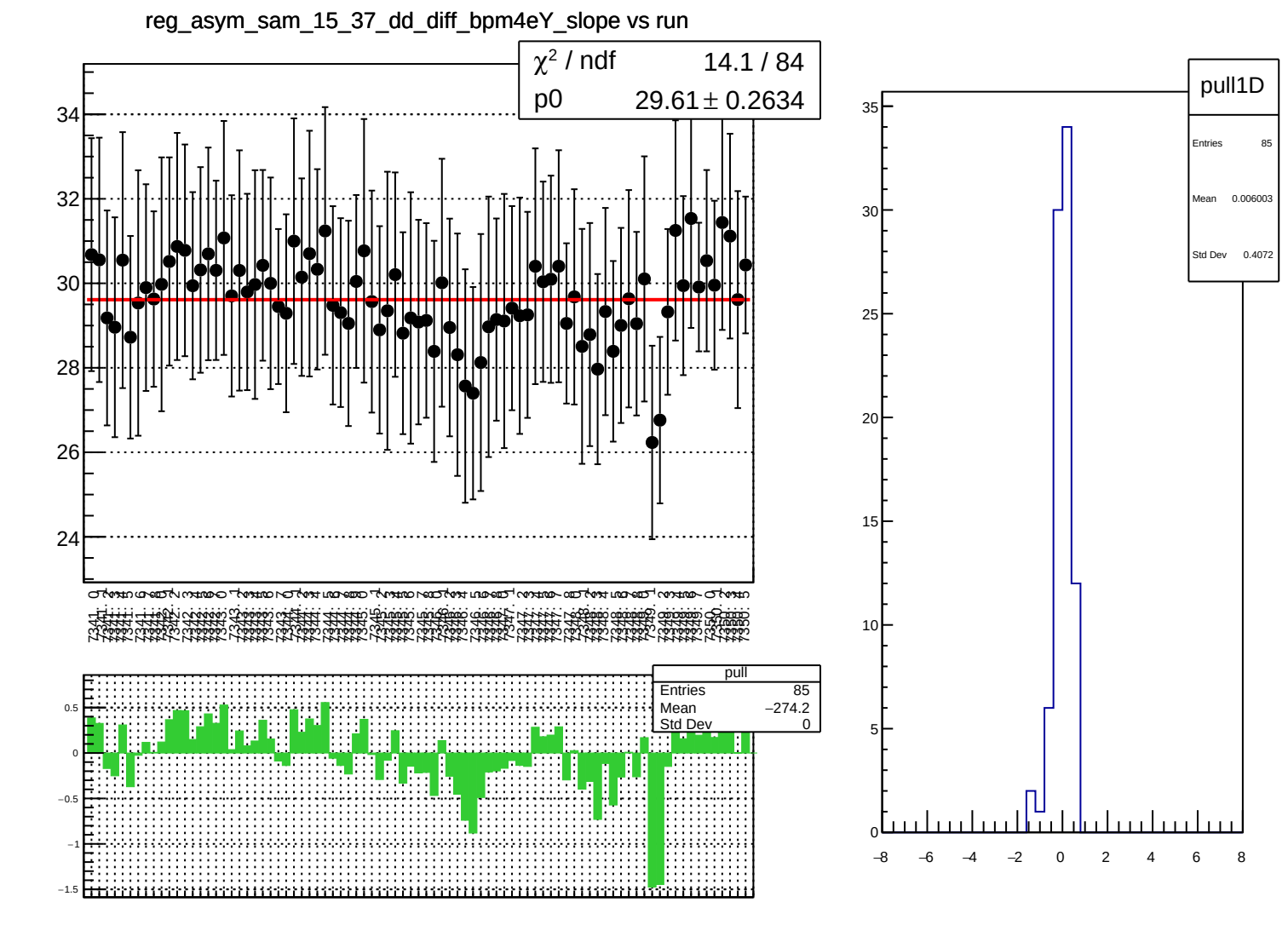

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 56.62 / 84
p0 5.024 ± 0.2687
pull
Entries 85
Mean −3.448
Std Dev 0

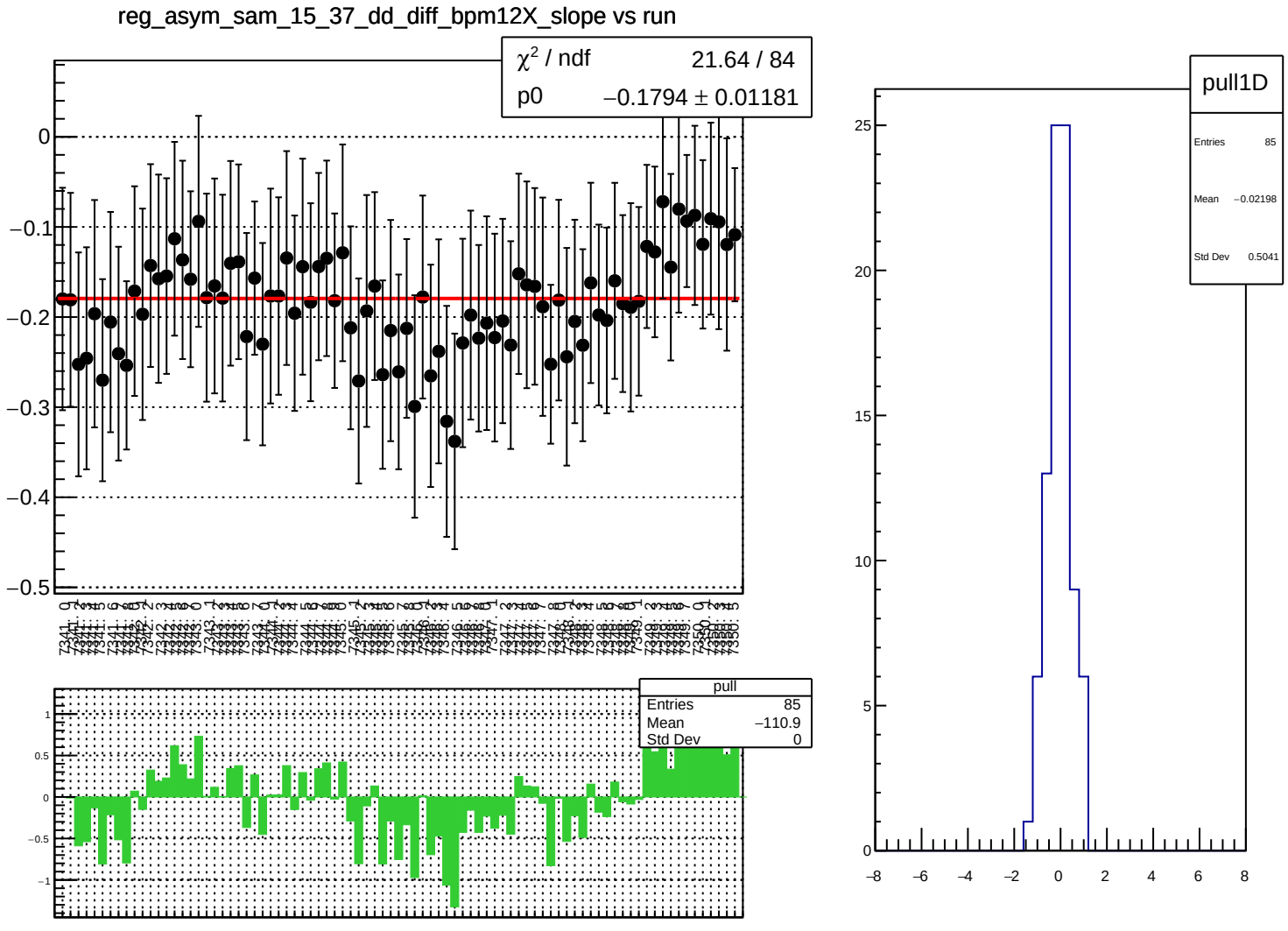

pull1D
Entries 85
Mean −0.1527
Std Dev 0.8017

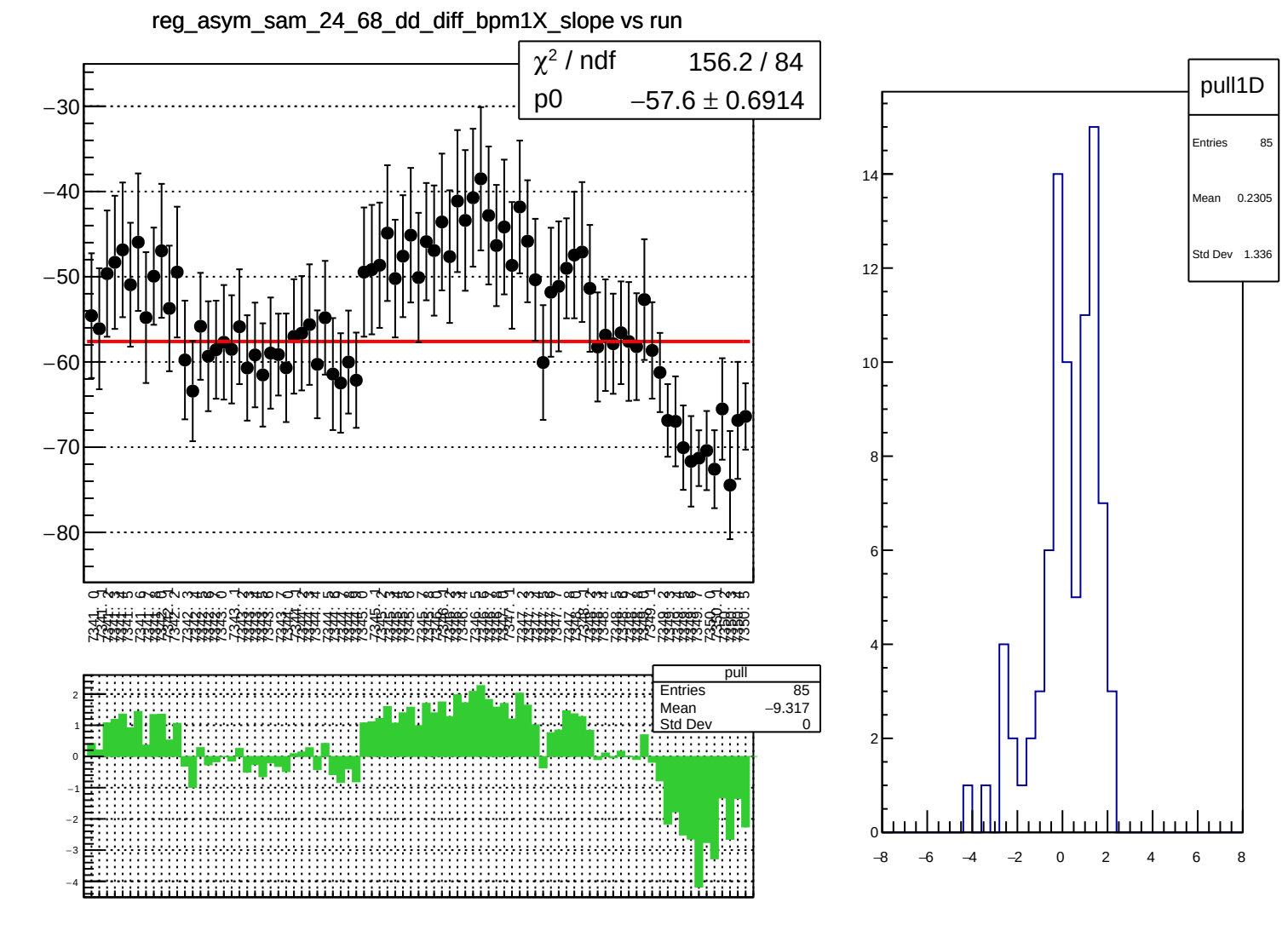

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.21 / 84
p0 −3.768 ± 0.2414
pull
Entries 85
Mean −36.42
Std Dev 0

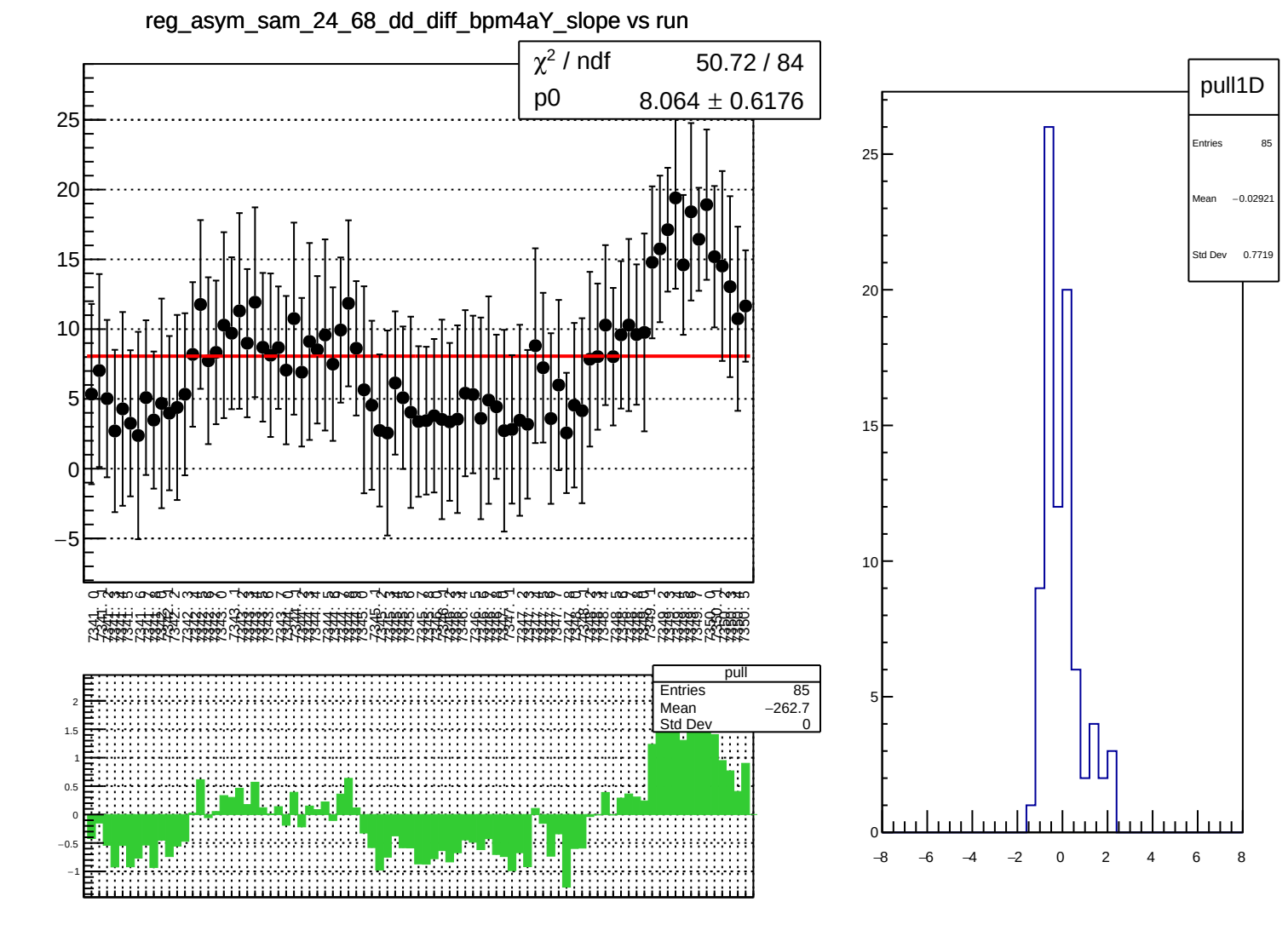

pull1D
Entries 85
Mean 0.03315
Std Dev 0.6242

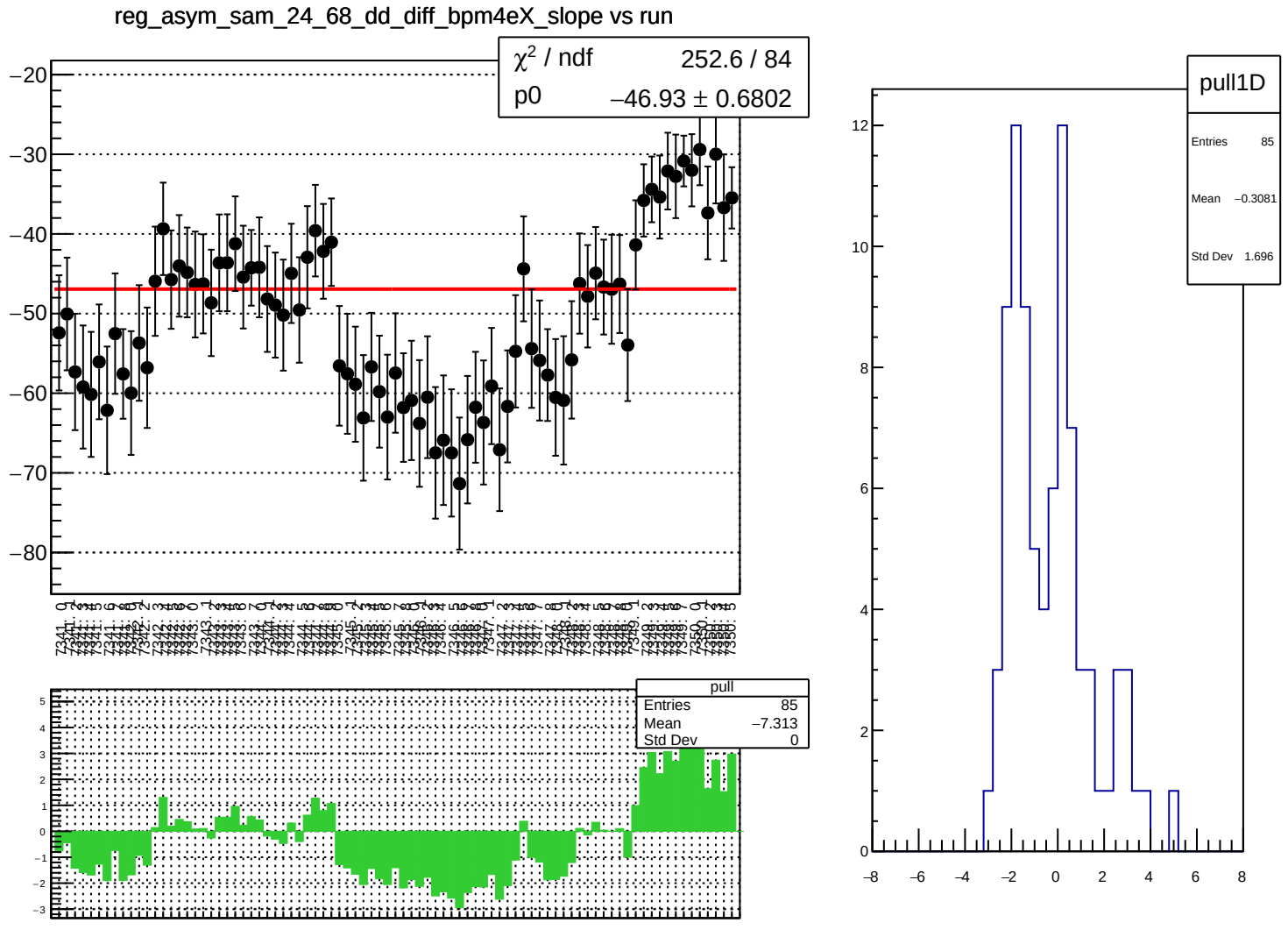

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 171.1 / 84
p0 25.94 ± 0.2642
pull
Entries 85
Mean −2.531
Std Dev 0
pull1D
Entries 85
Mean 0.2903
Std Dev 1.389

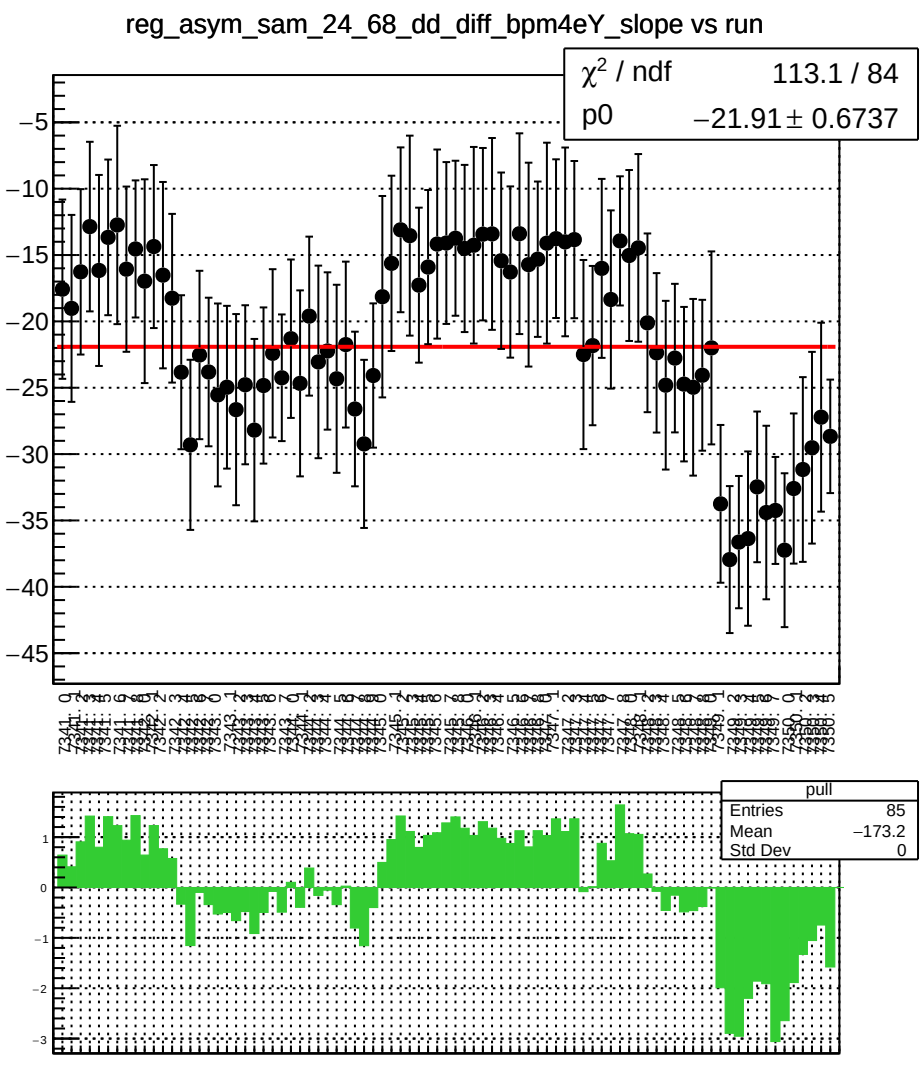

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.1 / 84
p0 29.61 ± 0.2634
pull
Entries 85
Mean −274.2
Std Dev 0
pull1D
Entries 85
Mean 0.006003
Std Dev 0.4072

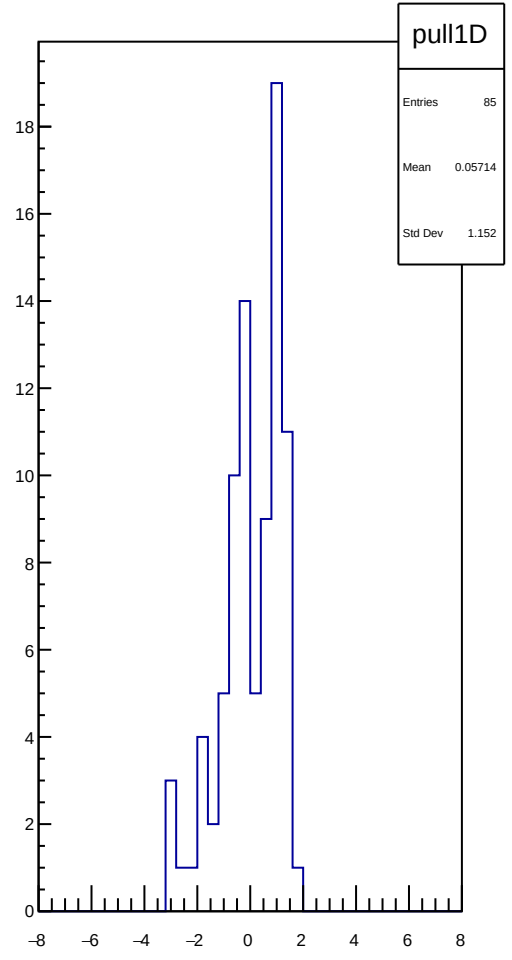

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 21.64 / 84
p0 −0.1794 ± 0.01181
pull
Entries 85
Mean −110.9
Std Dev 0
pull1D
Entries 85
Mean −0.02198
Std Dev 0.5041

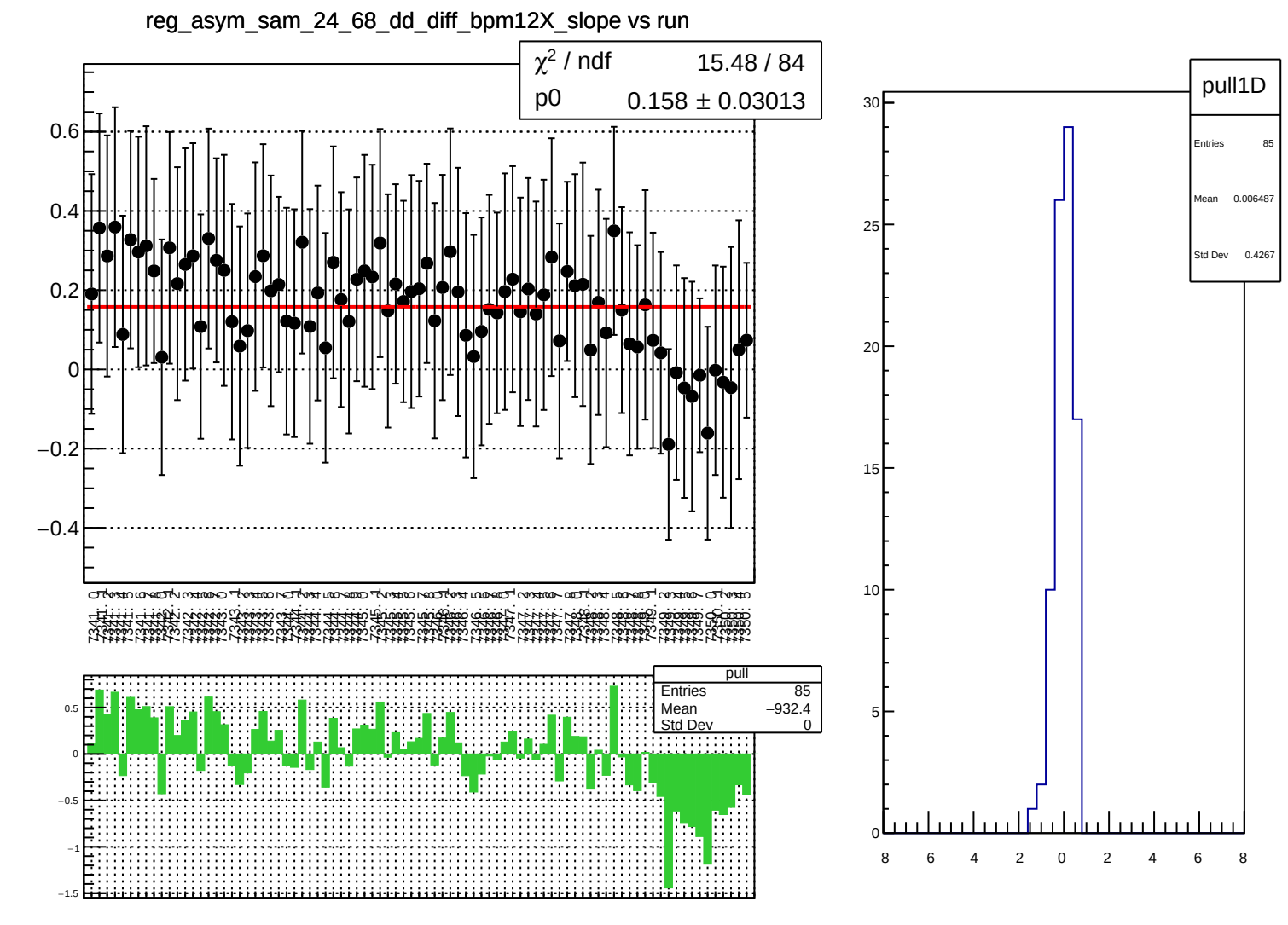

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 156.2 / 84
p0 −57.6 ± 0.6914
pull
Entries 85
Mean −9.317
Std Dev 0
pull1D
Entries 85
Mean 0.2305
Std Dev 1.336

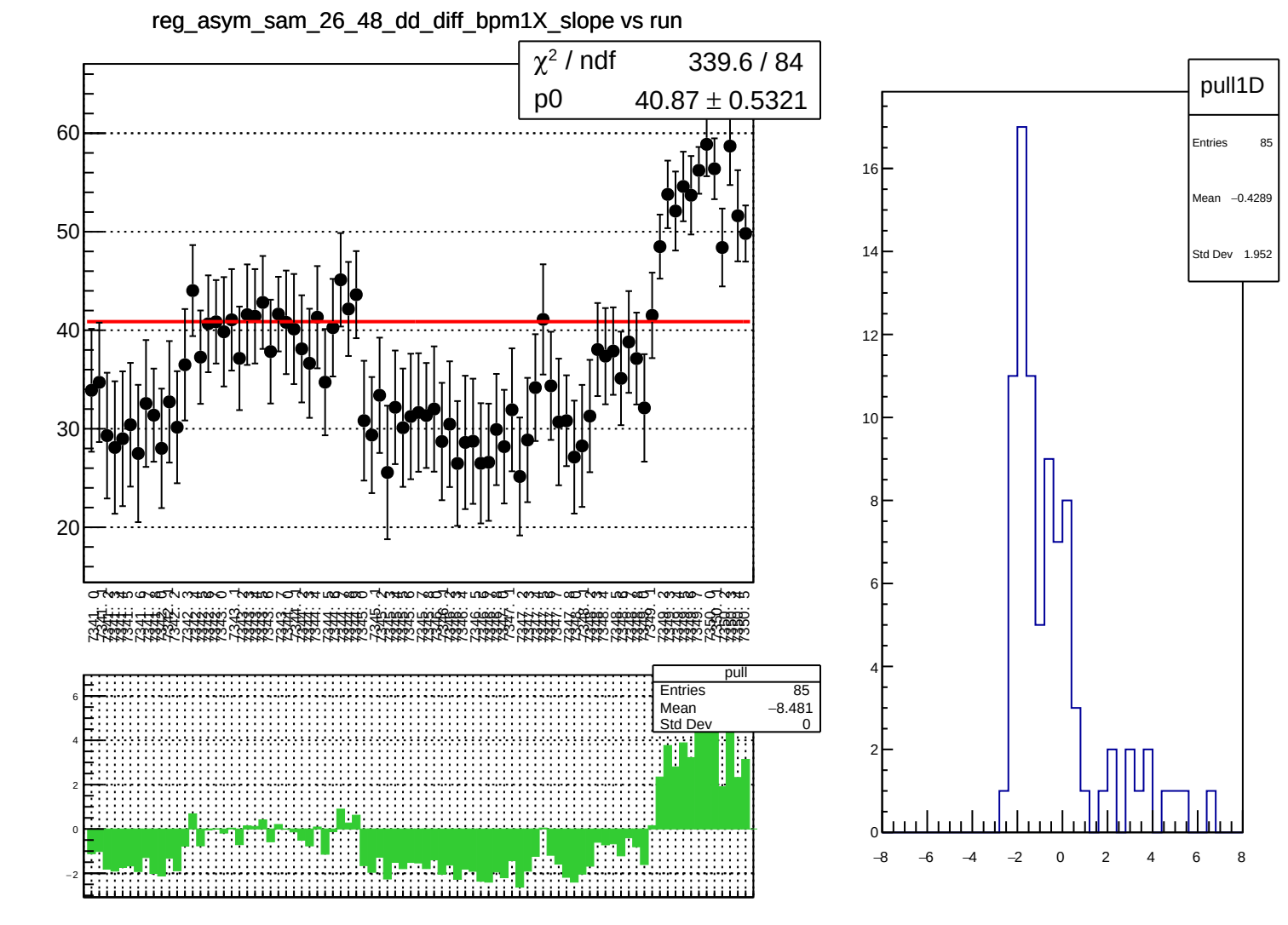

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.72 / 84
p0 8.064 ± 0.6176
pull
Entries 85
Mean −262.7
Std Dev 0
pull1D
Entries 85
Mean −0.02921
Std Dev 0.7719

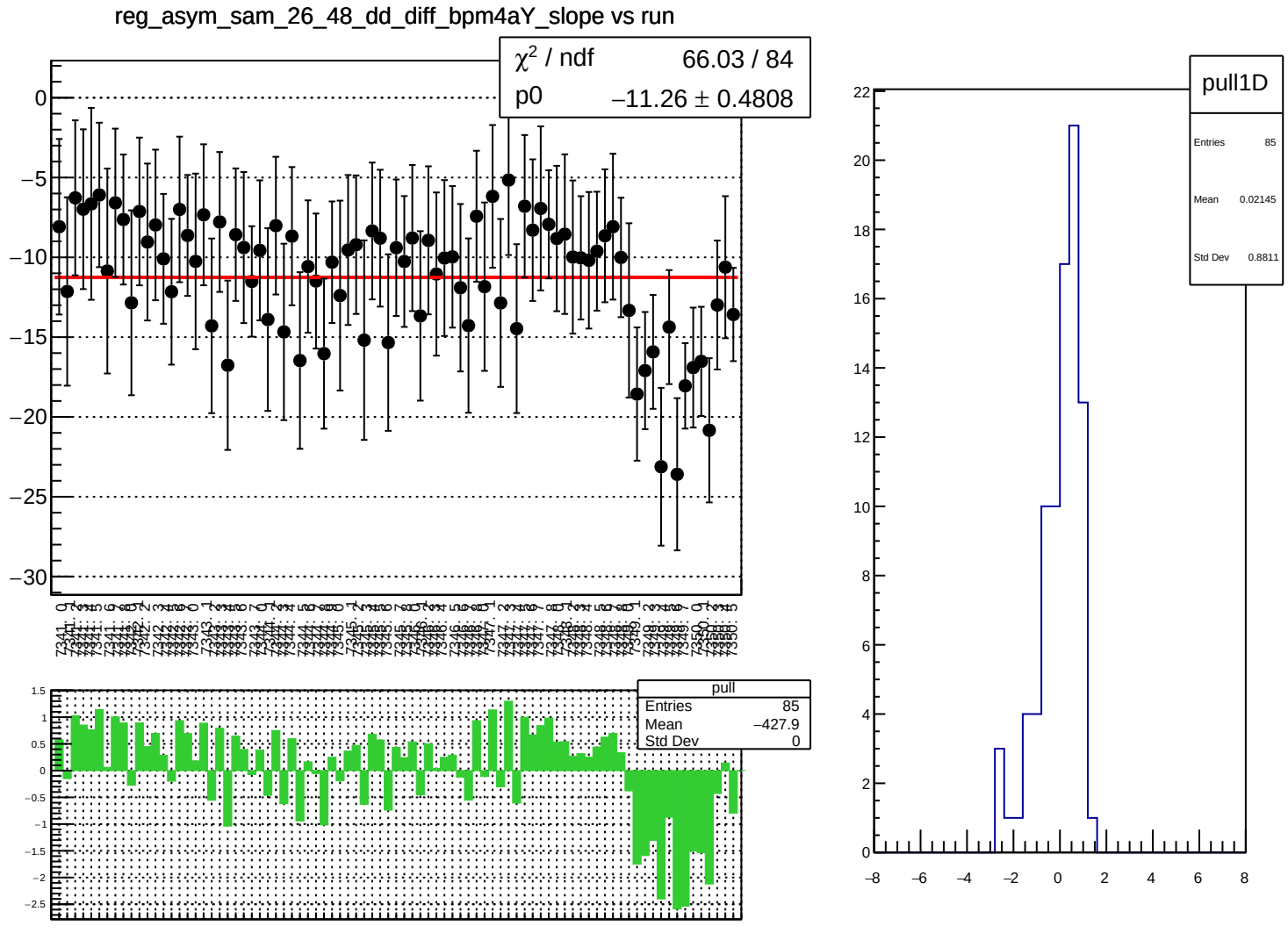

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 252.6 / 84
p0 −46.93 ± 0.6802
pull
Entries 85
Mean −7.313
Std Dev 0
pull1D
Entries 85
Mean −0.3081
Std Dev 1.696

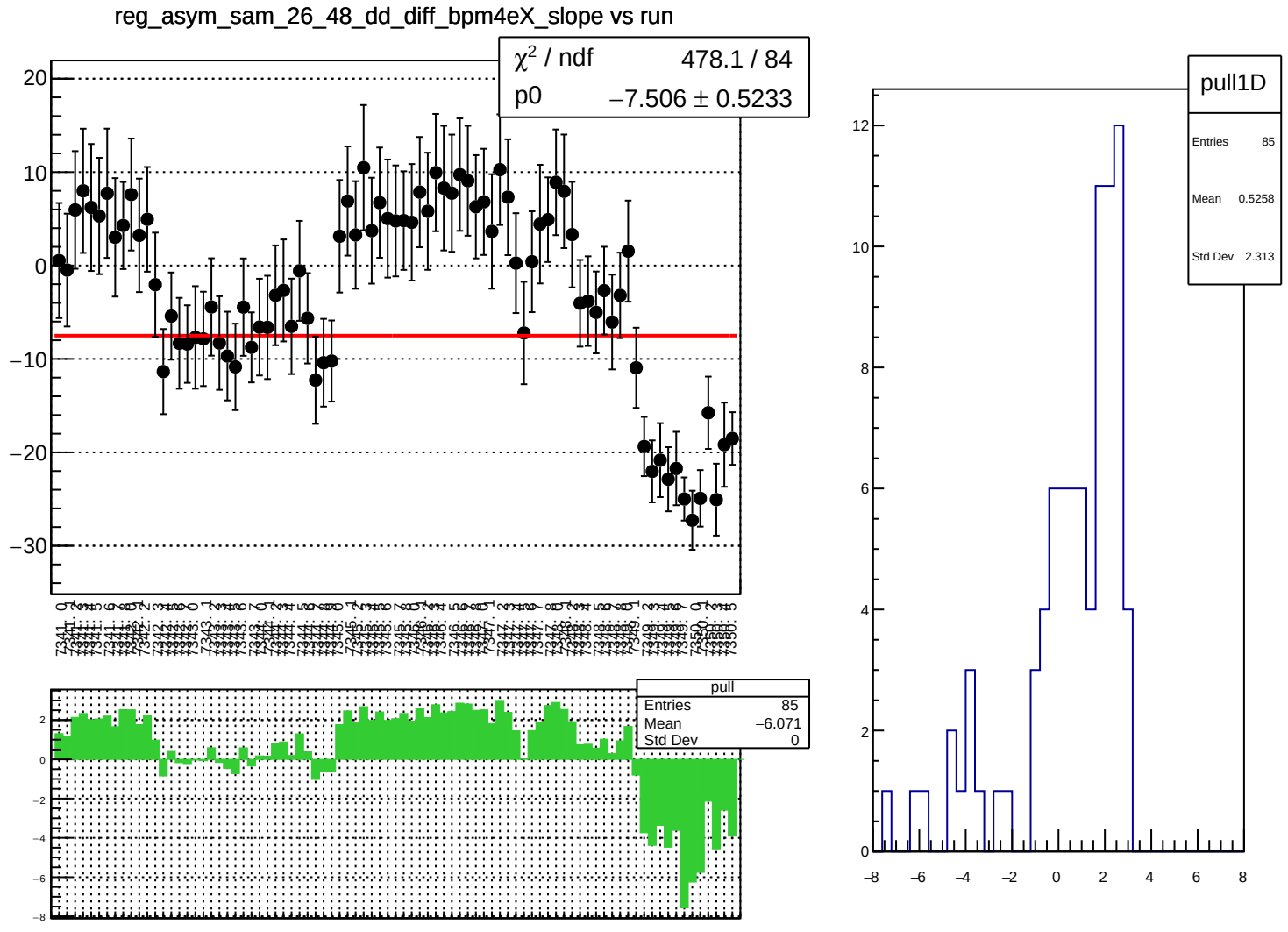

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 113.1 / 84
p0 −21.91 ± 0.6737
pull
Entries 85
Mean −173.2
Std Dev 0

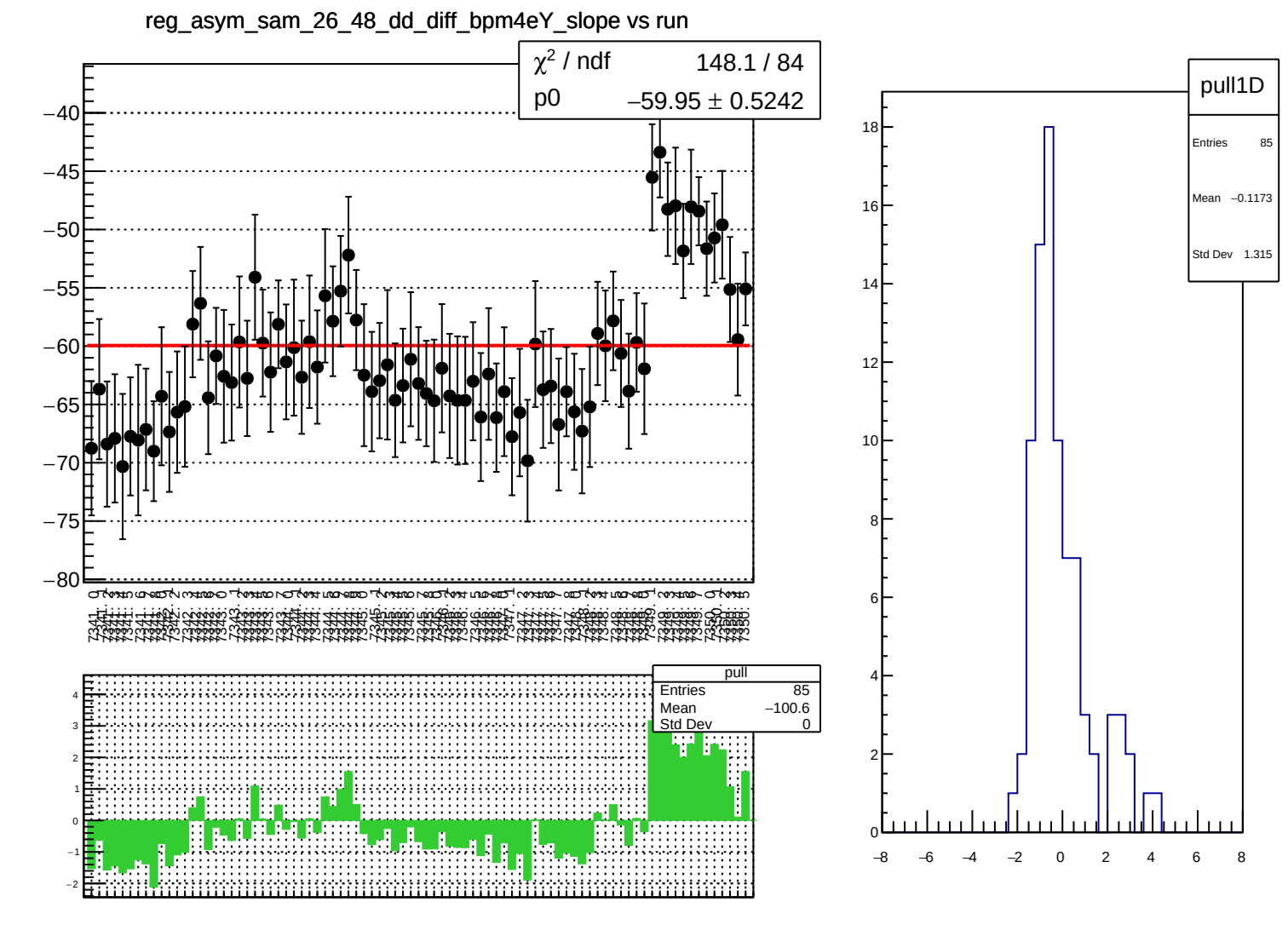

pull1D
Entries 85
Mean 0.05714
Std Dev 1.152

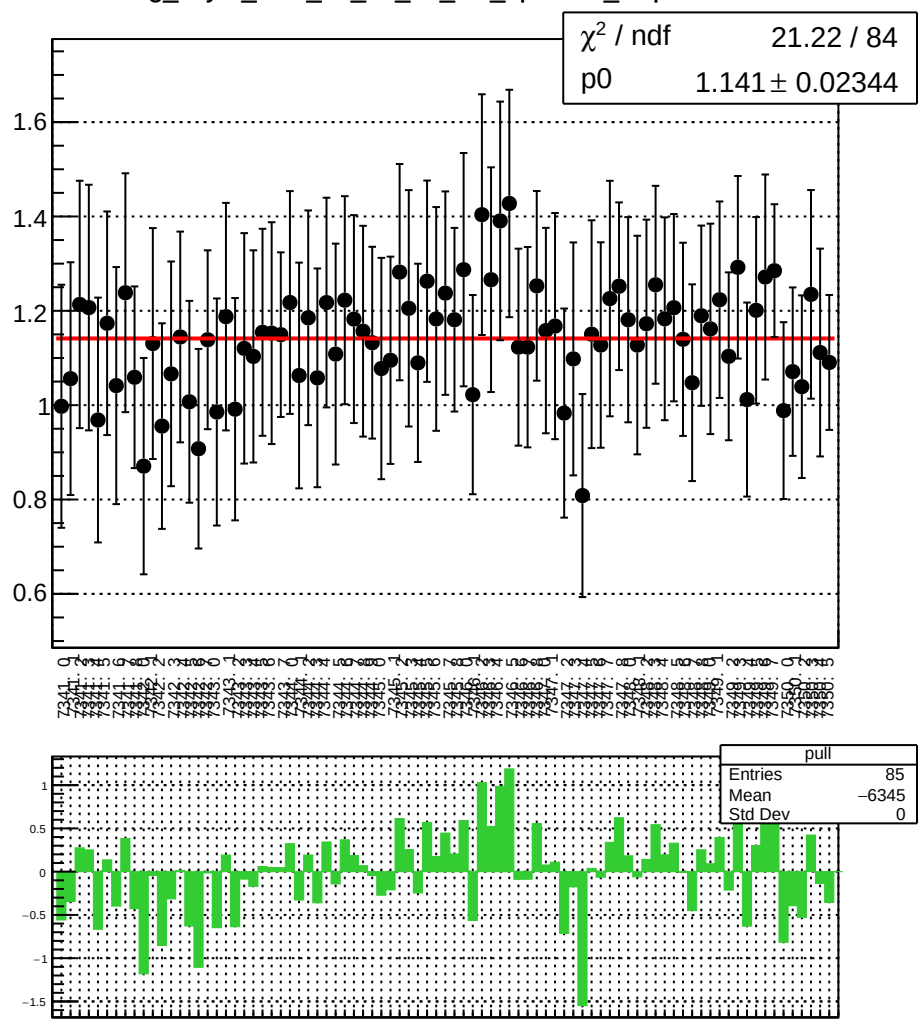

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 15.48 / 84
p0 0.158 ± 0.03013
pull
Entries 85
Mean −932.4
Std Dev 0
pull1D
Entries 85
Mean 0.006487
Std Dev 0.4267

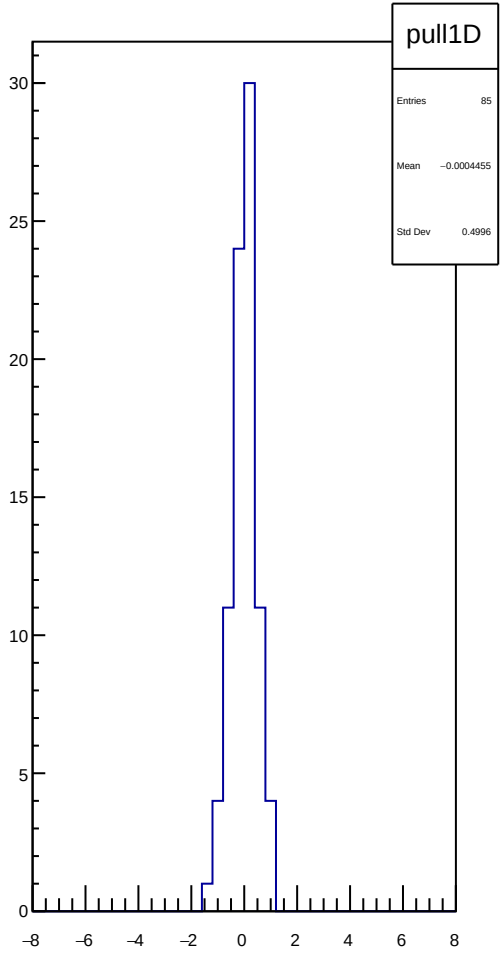

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 339.6 / 84
p0 40.87 ± 0.5321
pull
Entries 85
Mean −8.481
Std Dev 0
pull1D
Entries 85
Mean −0.4289
Std Dev 1.952

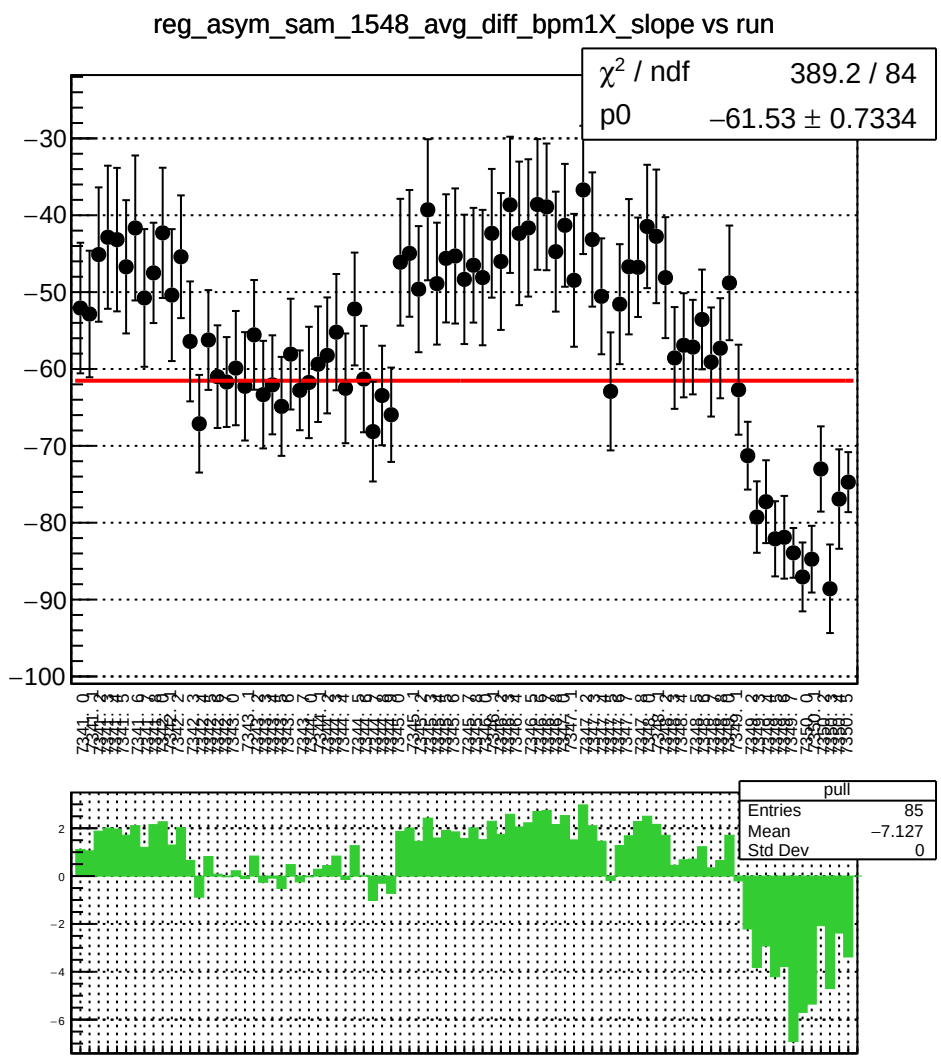

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.03 / 84
p0 −11.26 ± 0.4808
pull
Entries 85
Mean −427.9
Std Dev 0
pull1D
Entries 85
Mean 0.02145
Std Dev 0.8811

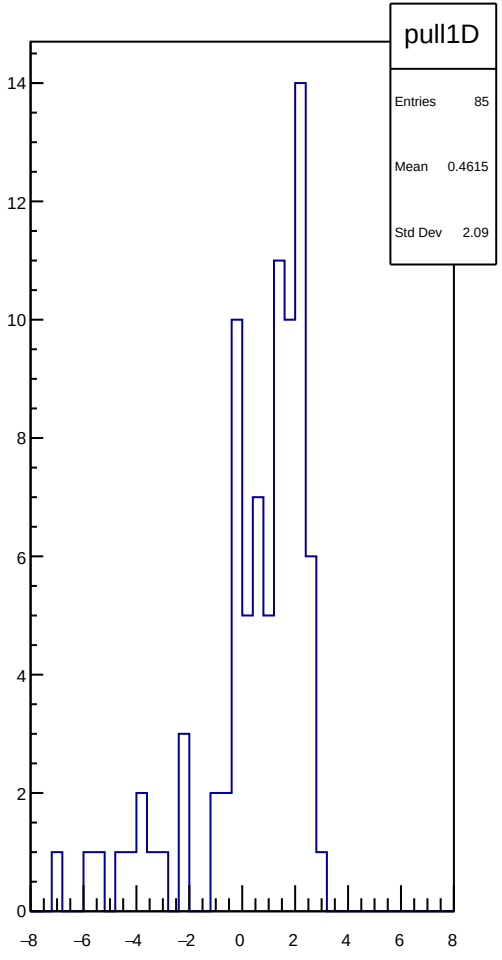

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 478.1 / 84
p0 −7.506 ± 0.5233
pull
Entries 85
Mean −6.071
Std Dev 0
pull1D
Entries 85
Mean 0.5258
Std Dev 2.313

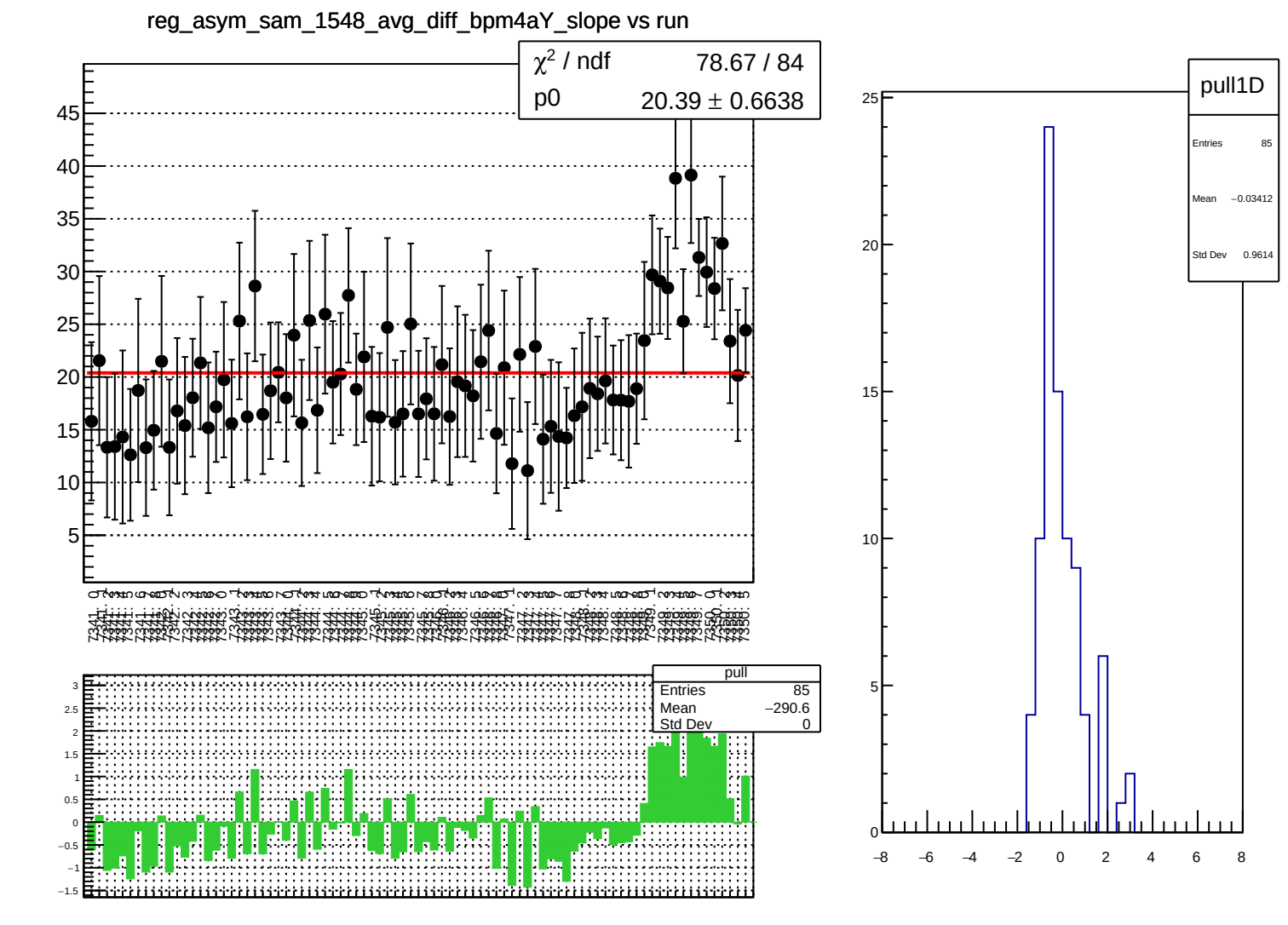

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 148.1 / 84
p0 −59.95 ± 0.5242
pull
Entries 85
Mean −100.6
Std Dev 0
pull1D
Entries 85
Mean −0.1173
Std Dev 1.315

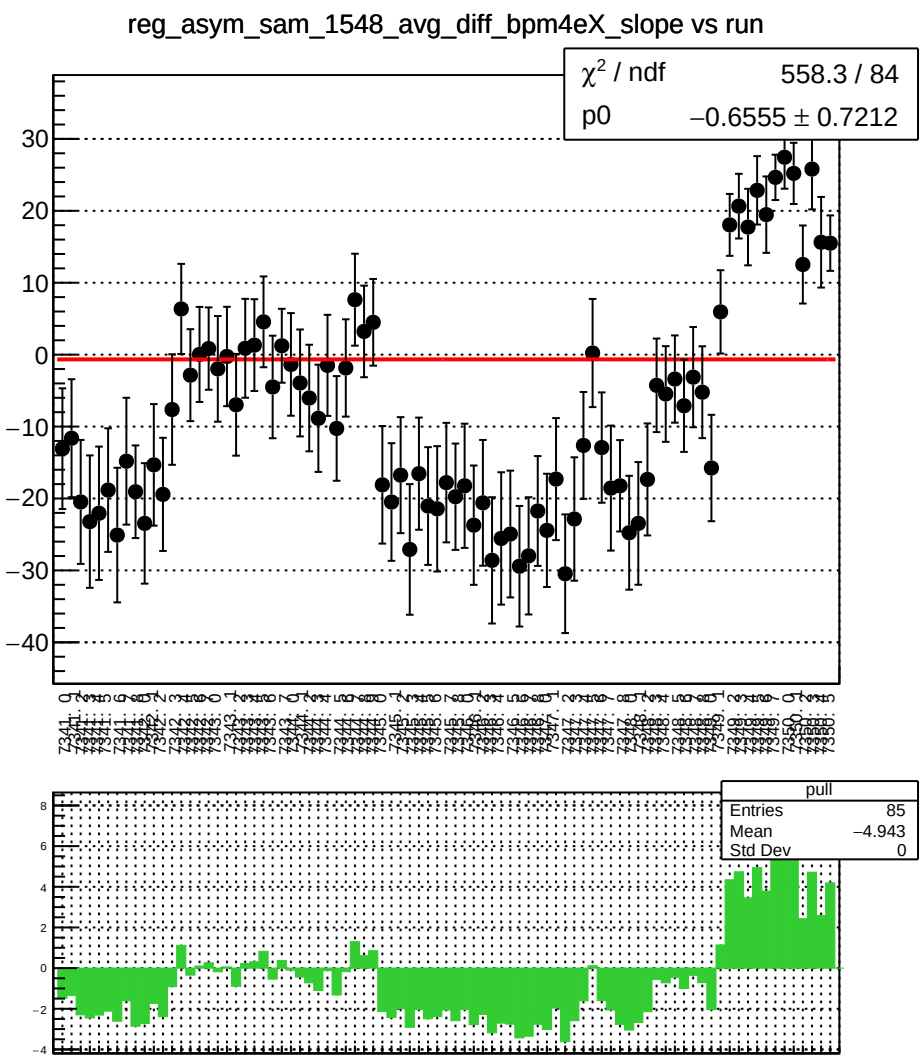

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 21.22 / 84
p0 1.141 ± 0.02344
pull
Entries 85
Mean −6345
Std Dev 0

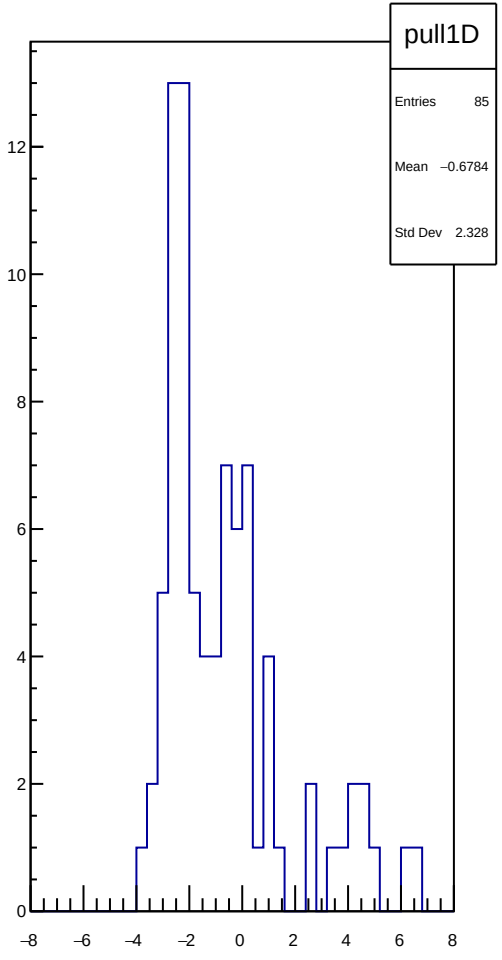

pull1D
Entries 85
Mean −0.0004455
Std Dev 0.4996

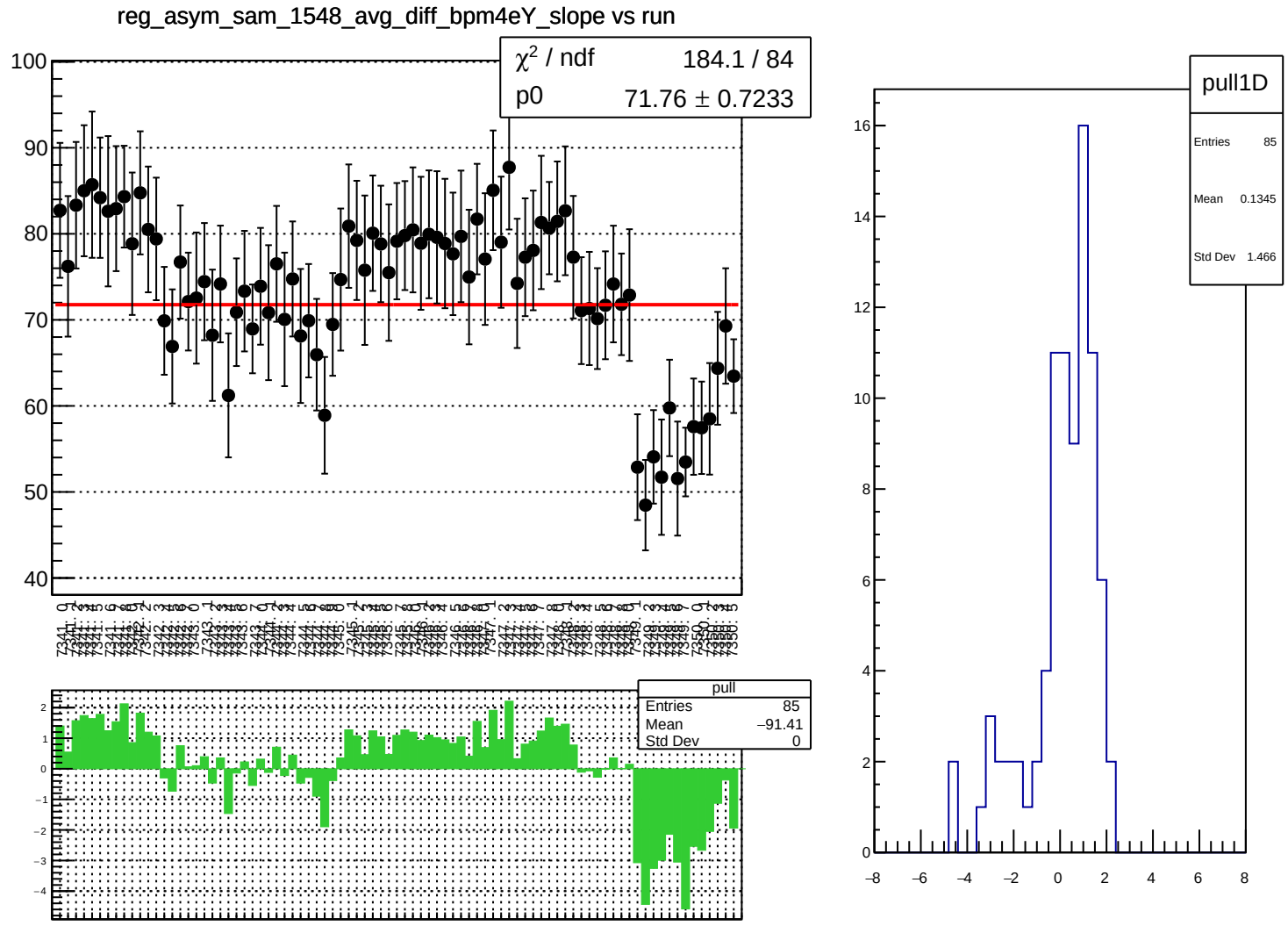

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 389.2 / 84
p0 −61.53 ± 0.7334
pull
Entries 85
Mean −7.127
Std Dev 0

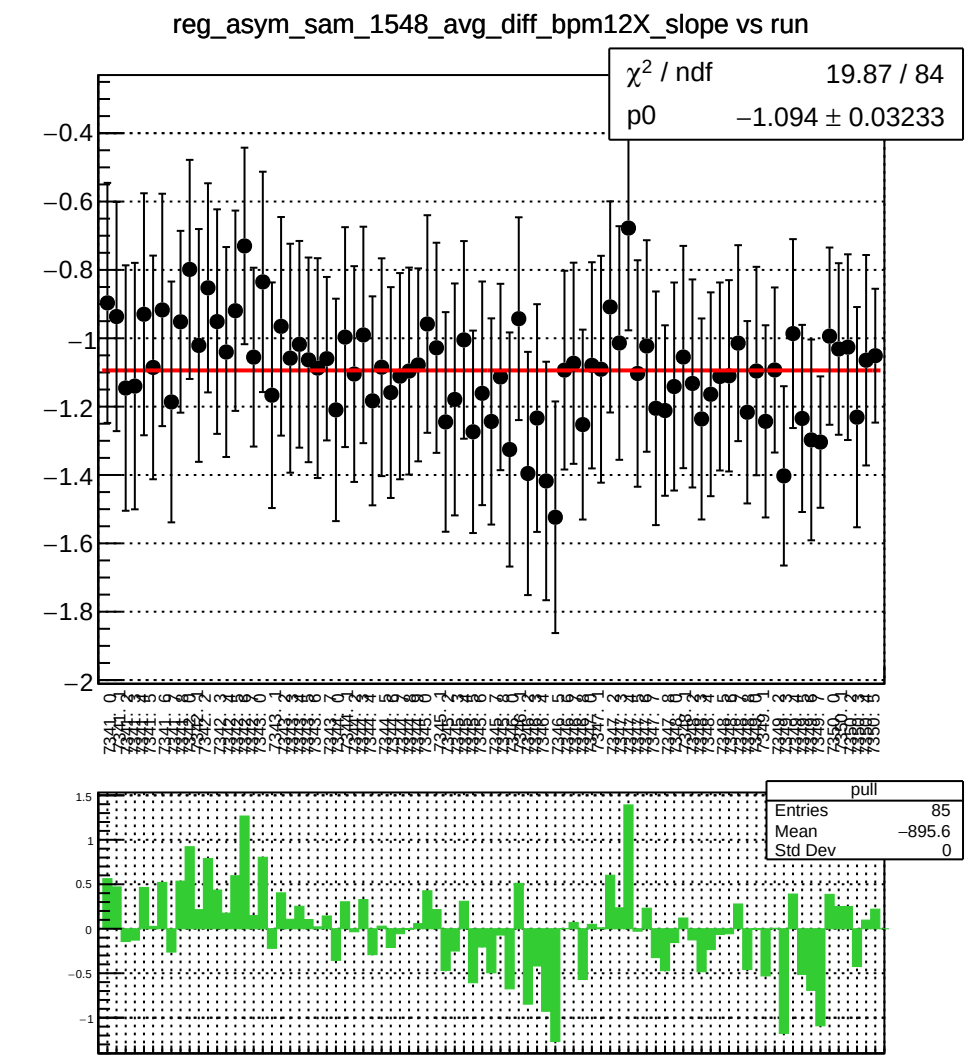

pull1D
Entries 85
Mean 0.4615
Std Dev 2.09

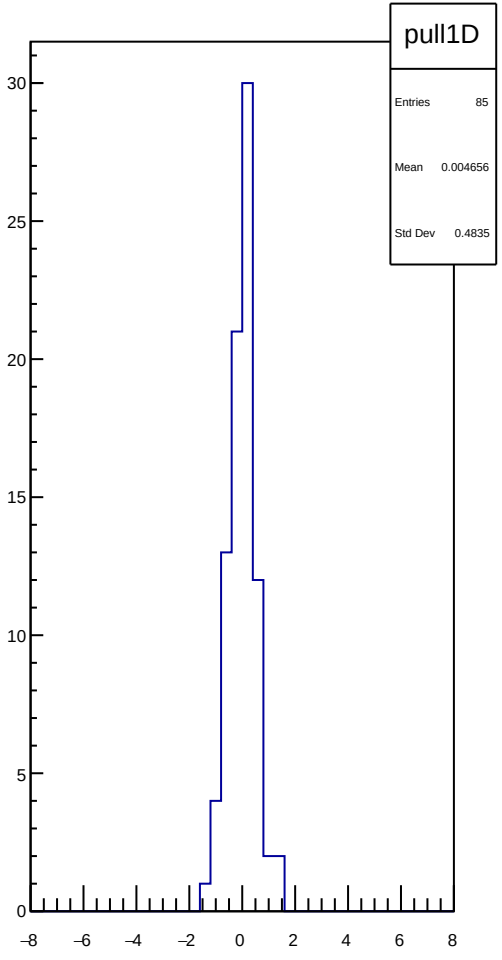

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.67 / 84
p0 20.39 ± 0.6638
pull
Entries 85
Mean −290.6
Std Dev 0
pull1D
Entries 85
Mean −0.03412
Std Dev 0.9614

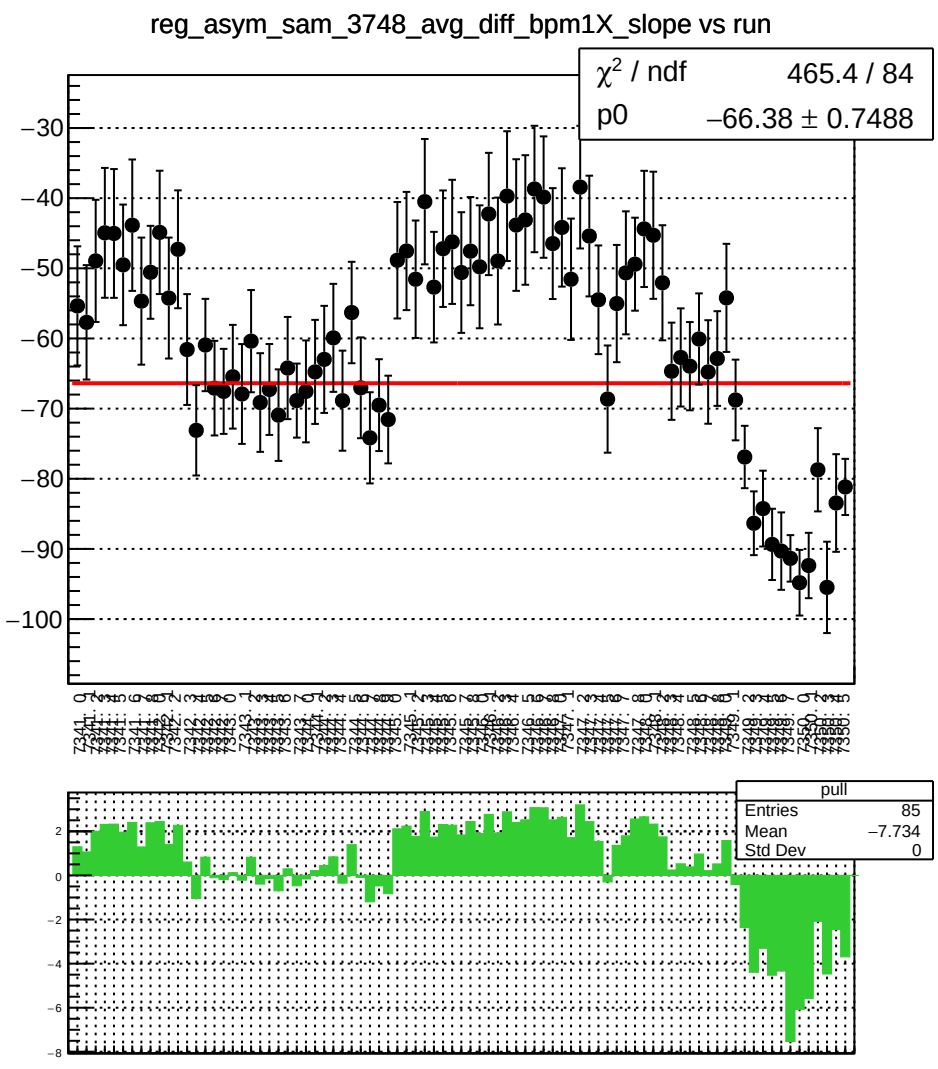

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 558.3 / 84
p0 −0.6555 ± 0.7212
pull
Entries 85
Mean −4.943
Std Dev 0

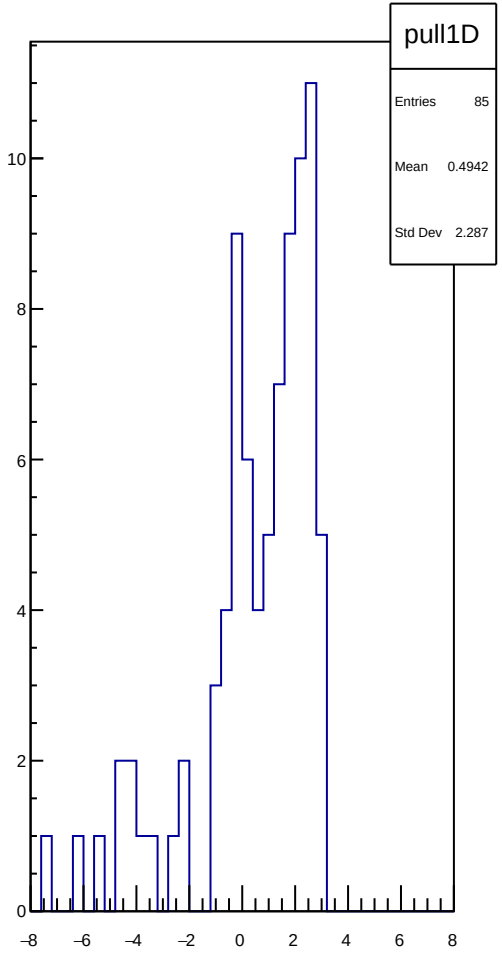

pull1D
Entries 85
Mean −0.6784
Std Dev 2.328

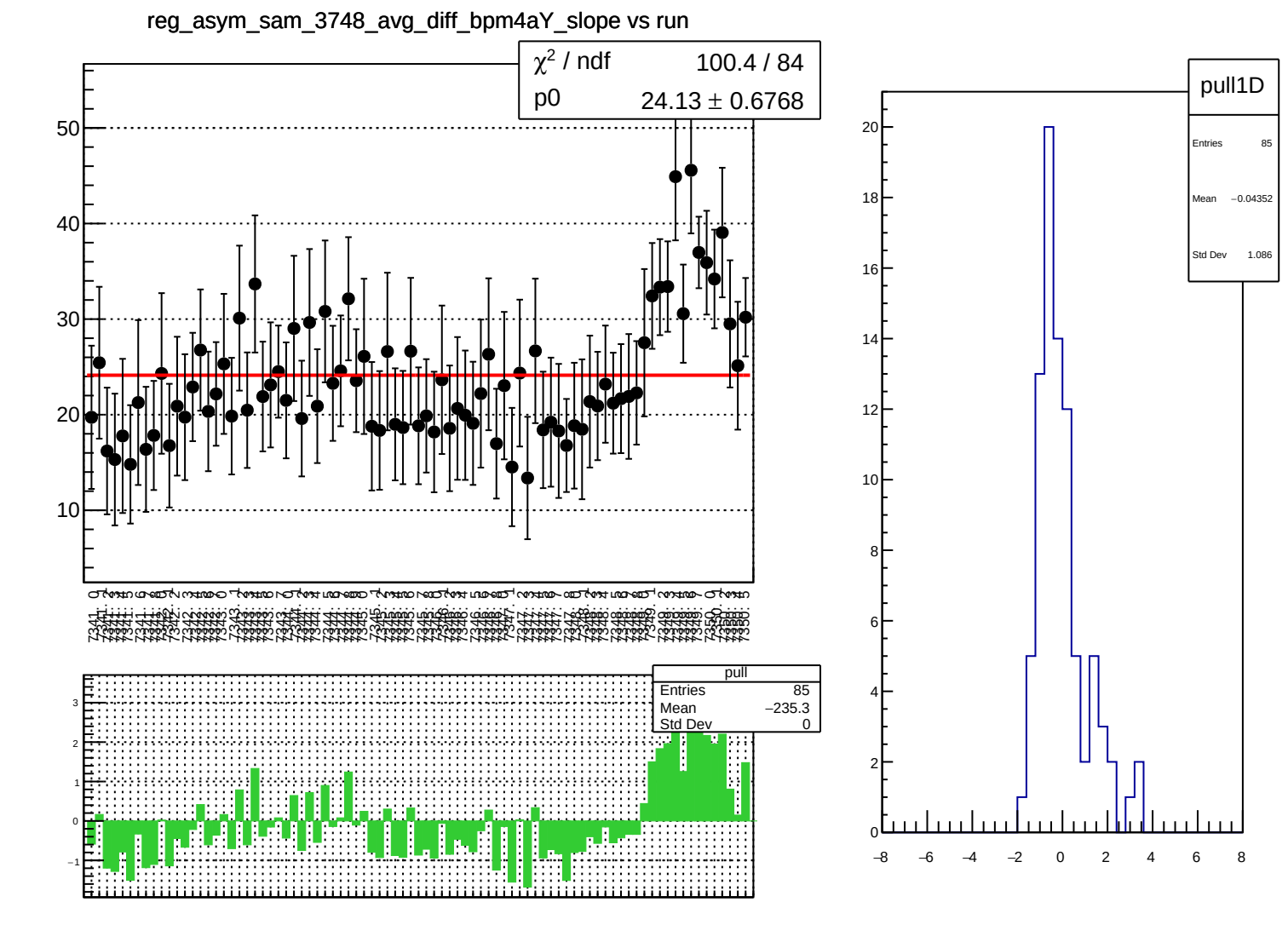

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 184.1 / 84
p0 71.76 ± 0.7233
pull
Entries 85
Mean −91.41
Std Dev 0
pull1D
Entries 85
Mean 0.1345
Std Dev 1.466

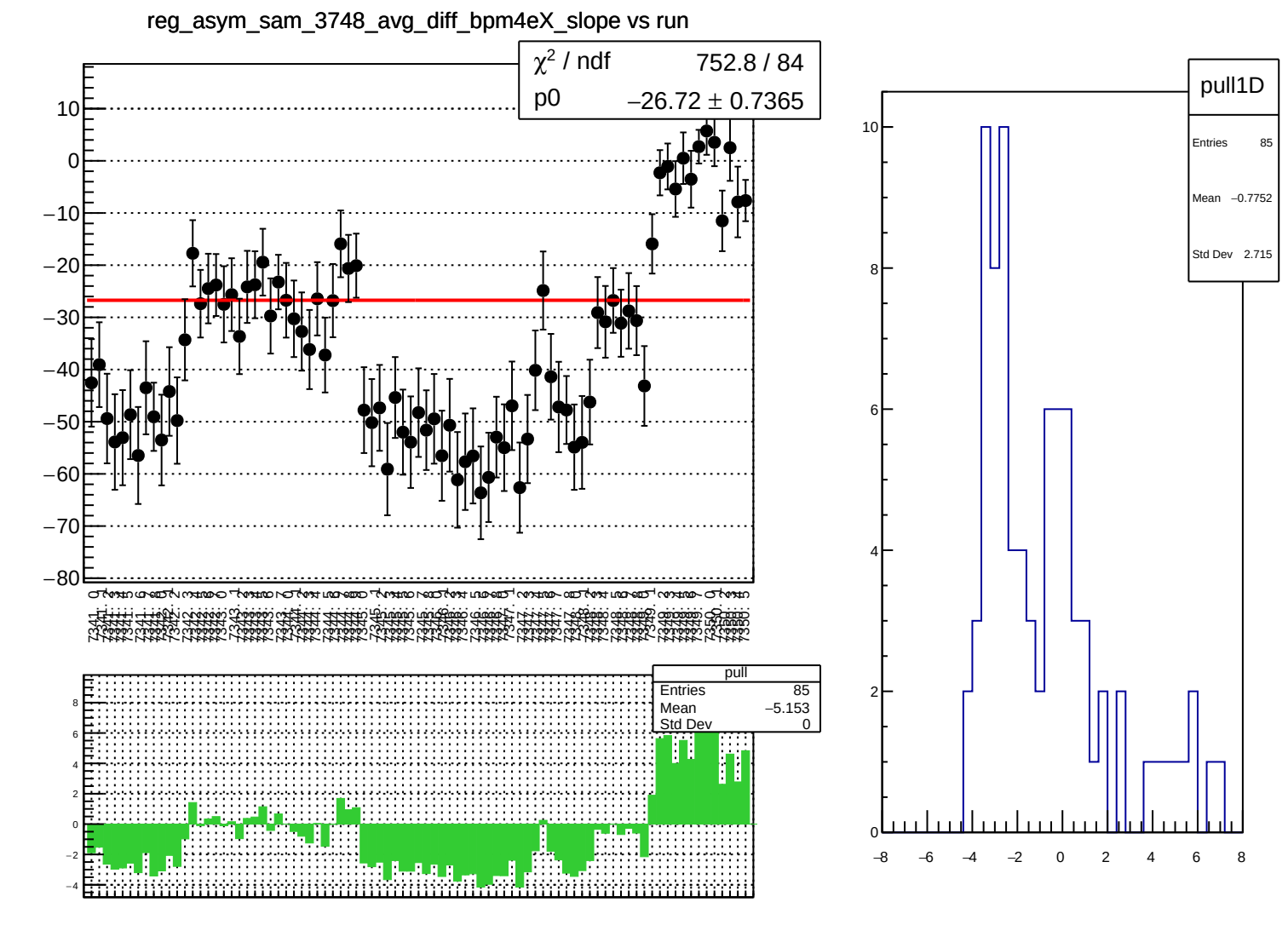

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 19.87 / 84
p0 −1.094 ± 0.03233
pull
Entries 85
Mean −895.6
Std Dev 0

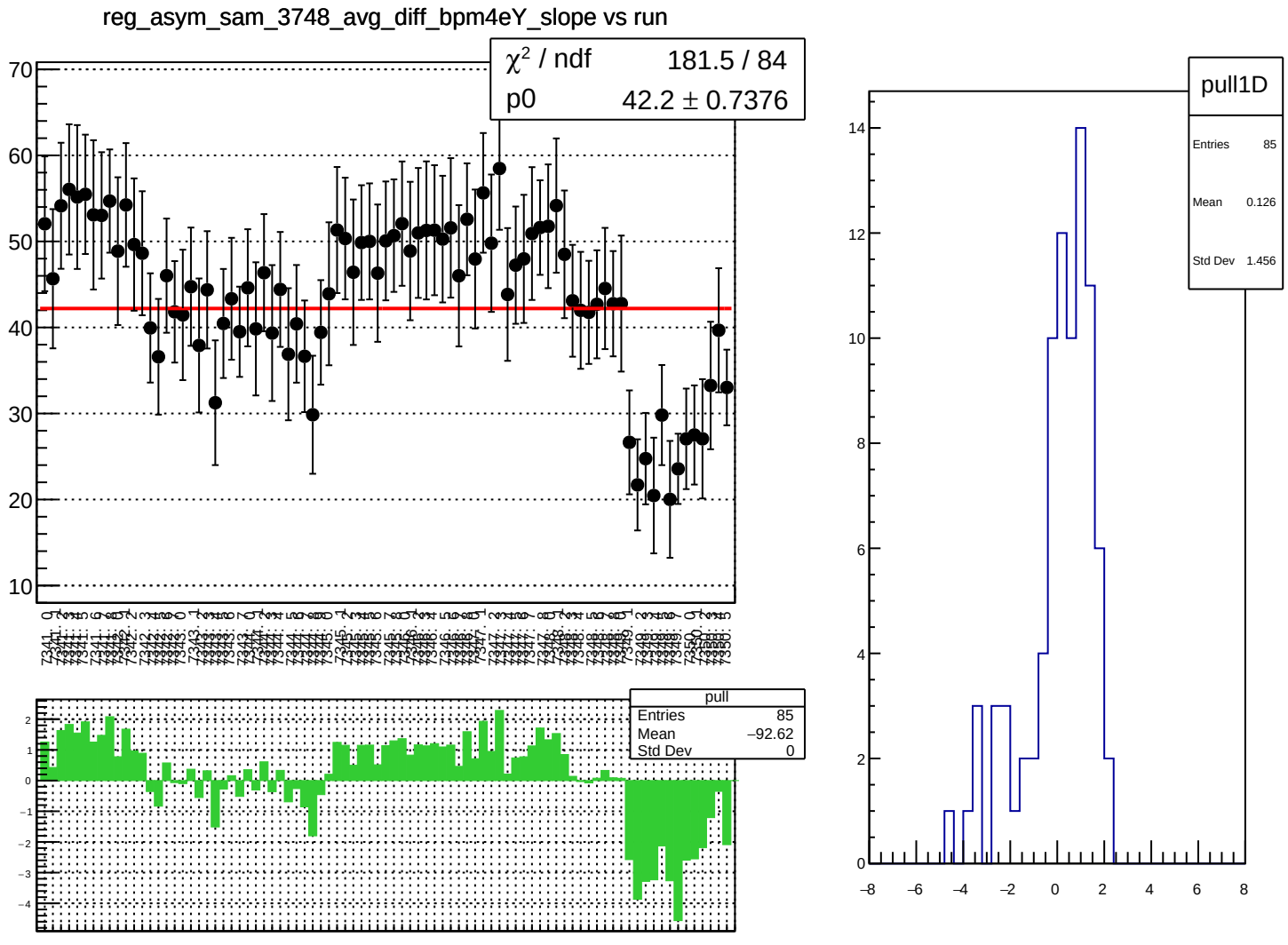

pull1D
Entries 85
Mean 0.004656
Std Dev 0.4835

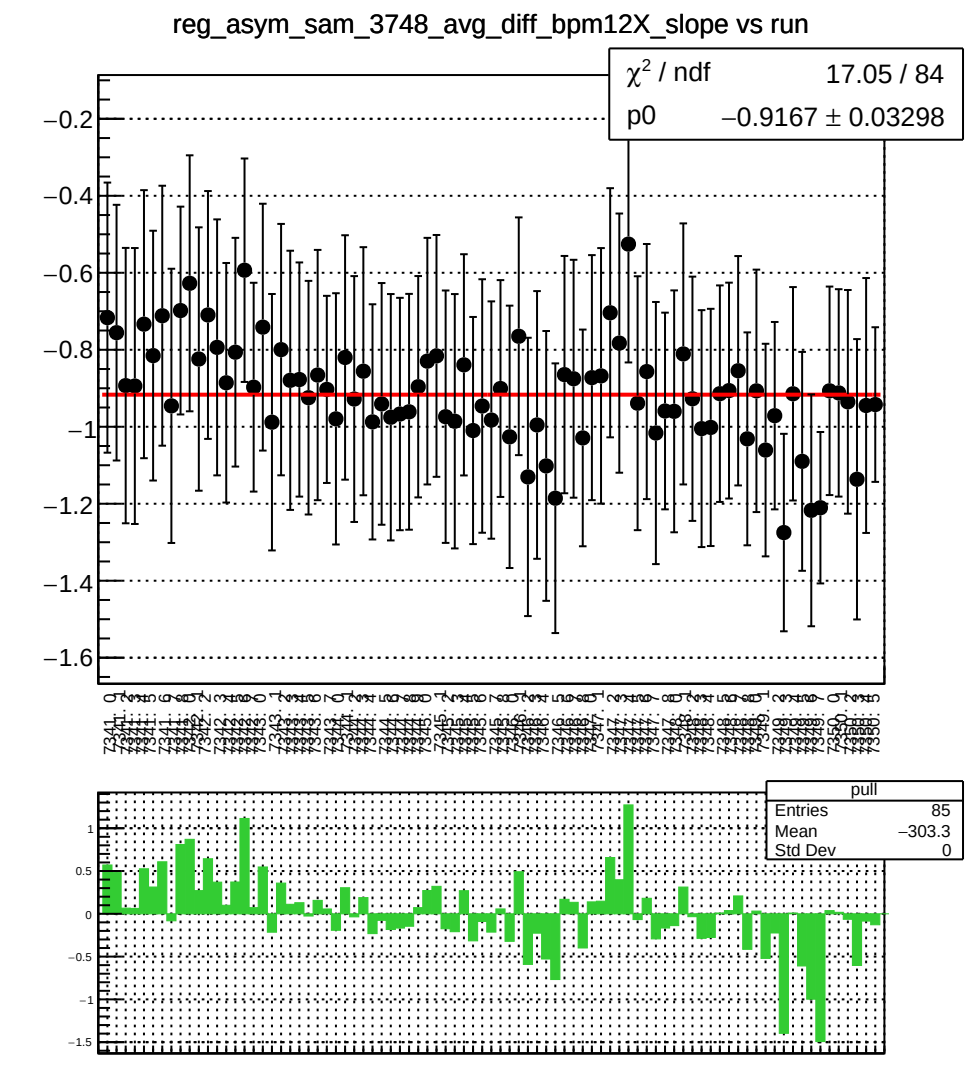

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 465.4 / 84
p0 −66.38 ± 0.7488
pull
Entries 85
Mean −7.734
Std Dev 0

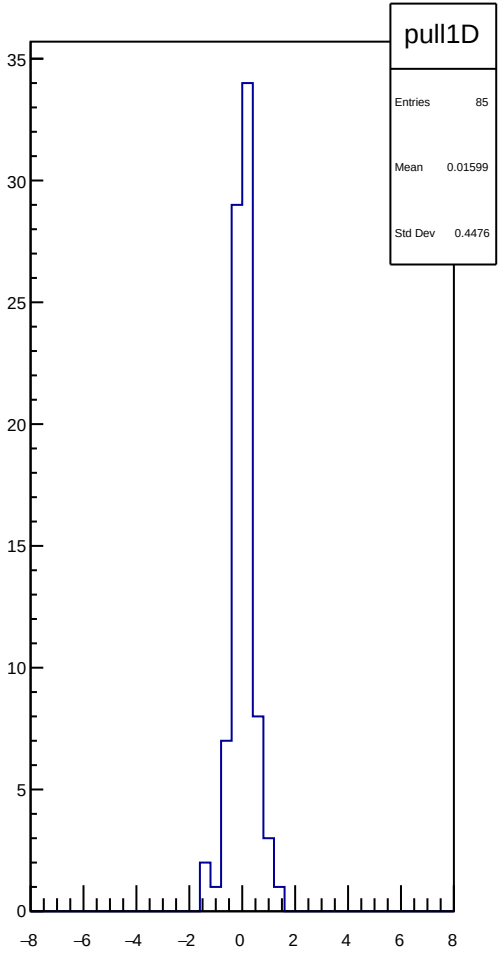

pull1D
Entries 85
Mean 0.4942
Std Dev 2.287

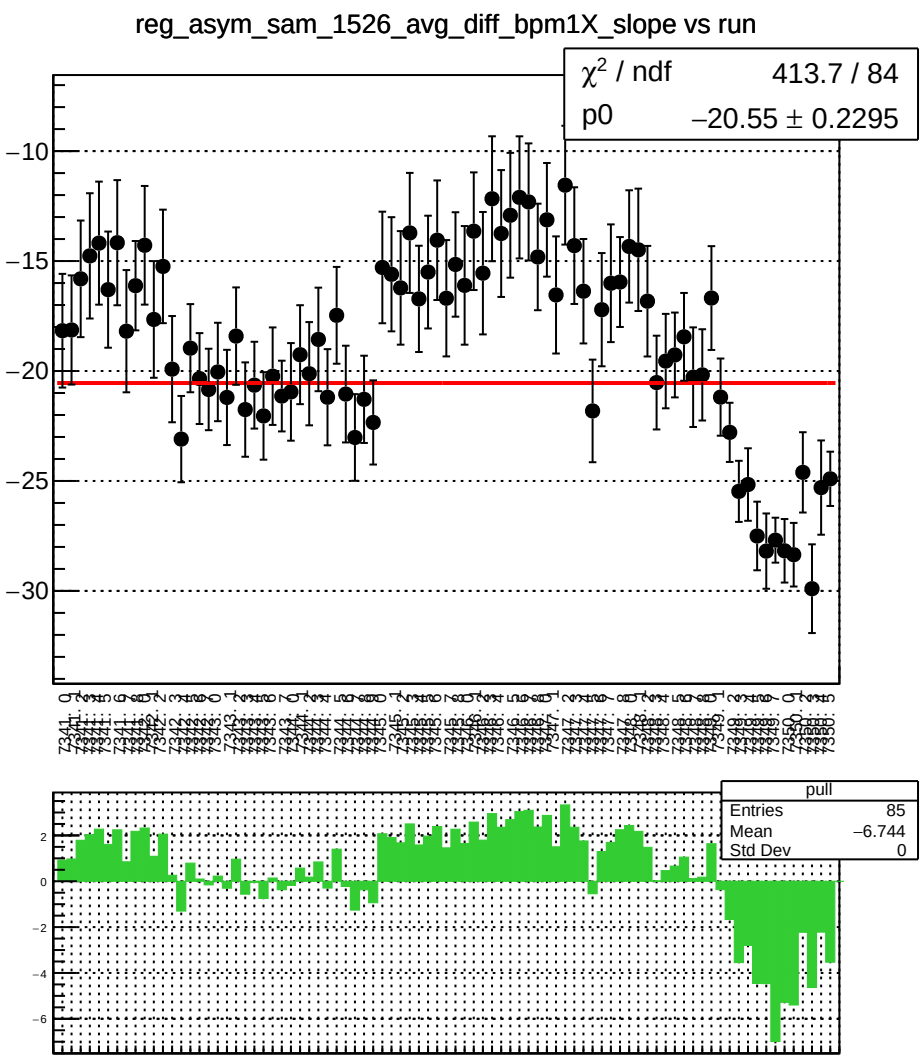

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 100.4 / 84
p0 24.13 ± 0.6768
pull
Entries 85
Mean −235.3
Std Dev 0
pull1D
Entries 85
Mean −0.04352
Std Dev 1.086

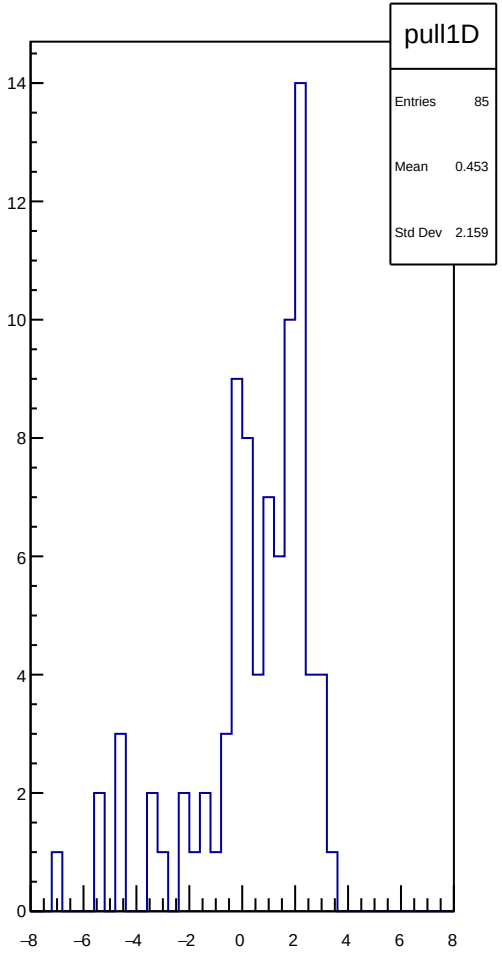

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 752.8 / 84
p0 −26.72 ± 0.7365
pull
Entries 85
Mean −5.153
Std Dev 0
pull1D
Entries 85
Mean −0.7752
Std Dev 2.715

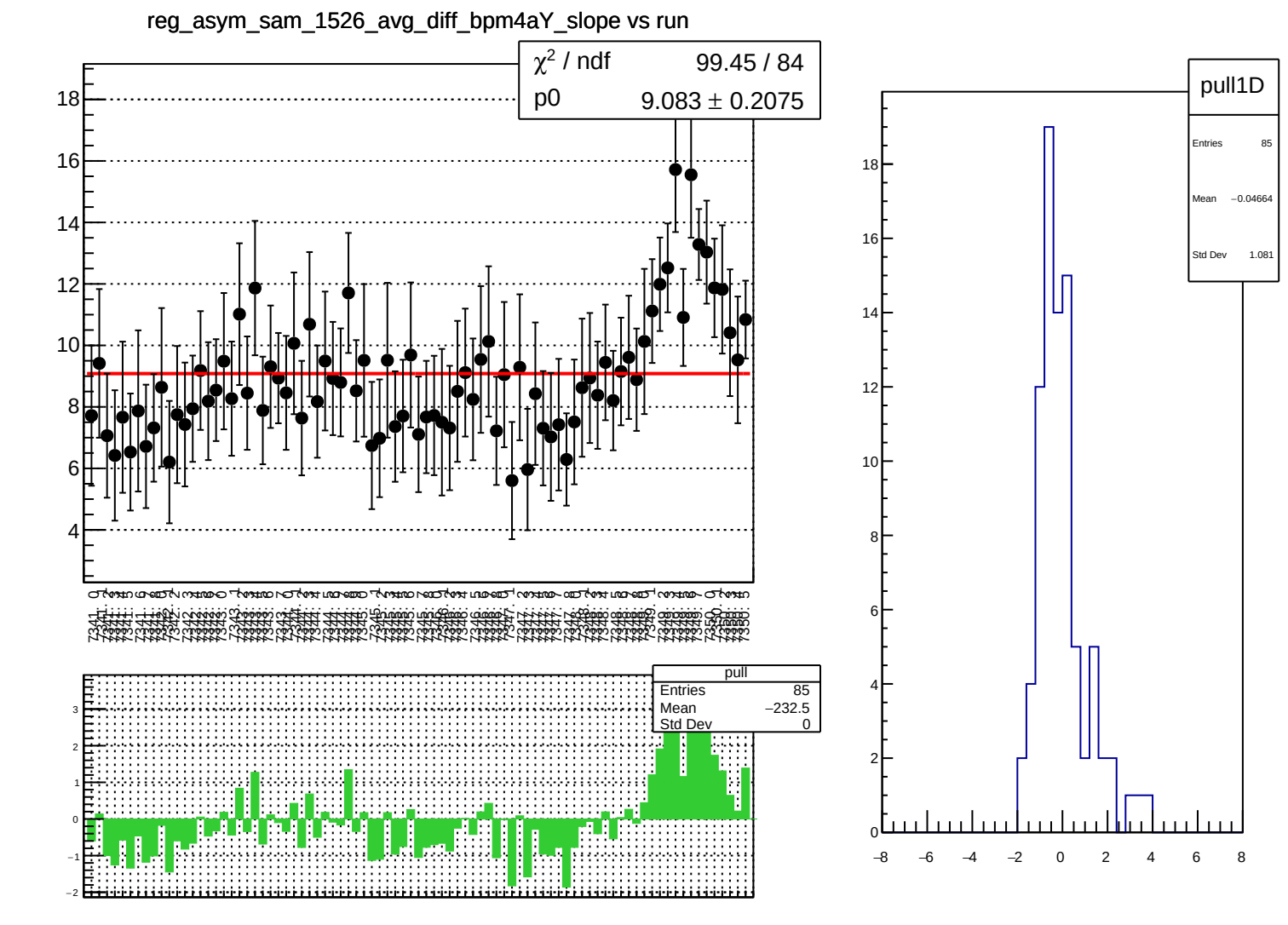

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 181.5 / 84
p0 42.2 ± 0.7376
pull
Entries 85
Mean −92.62
Std Dev 0
pull1D
Entries 85
Mean 0.126
Std Dev 1.456

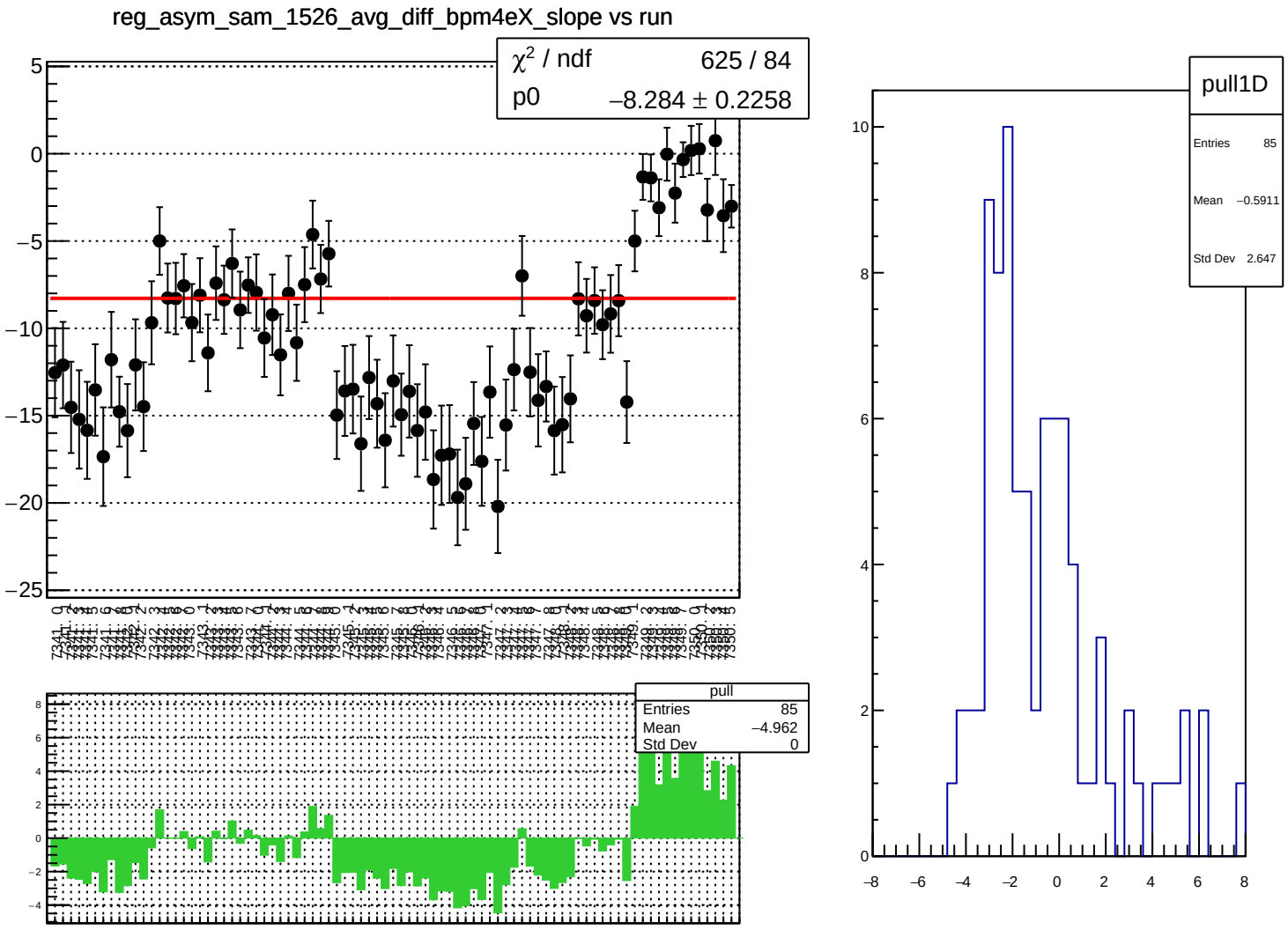

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 17.05 / 84
p0 −0.9167 ± 0.03298
pull
Entries 85
Mean −303.3
Std Dev 0

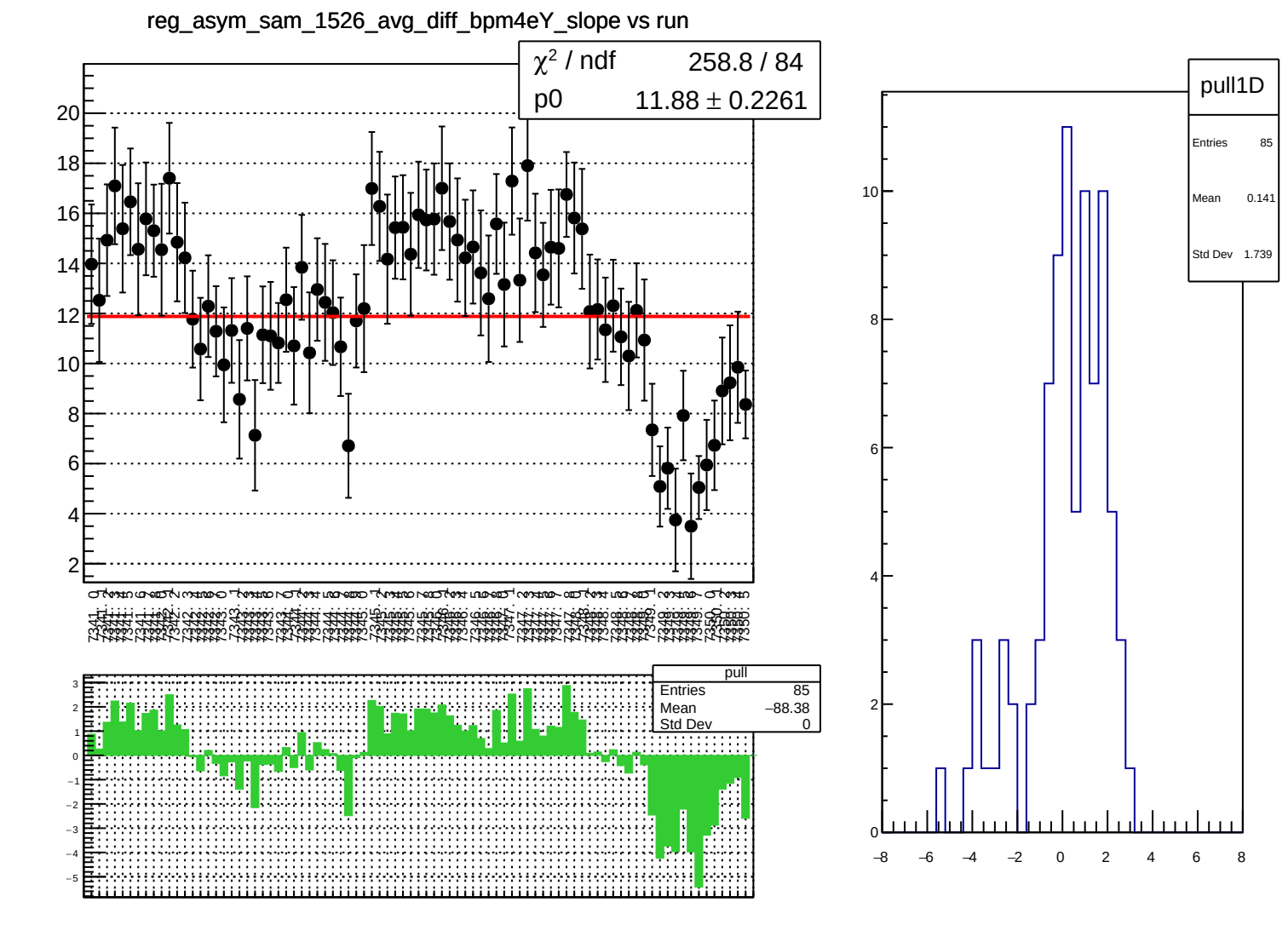

pull1D
Entries 85
Mean 0.01599
Std Dev 0.4476

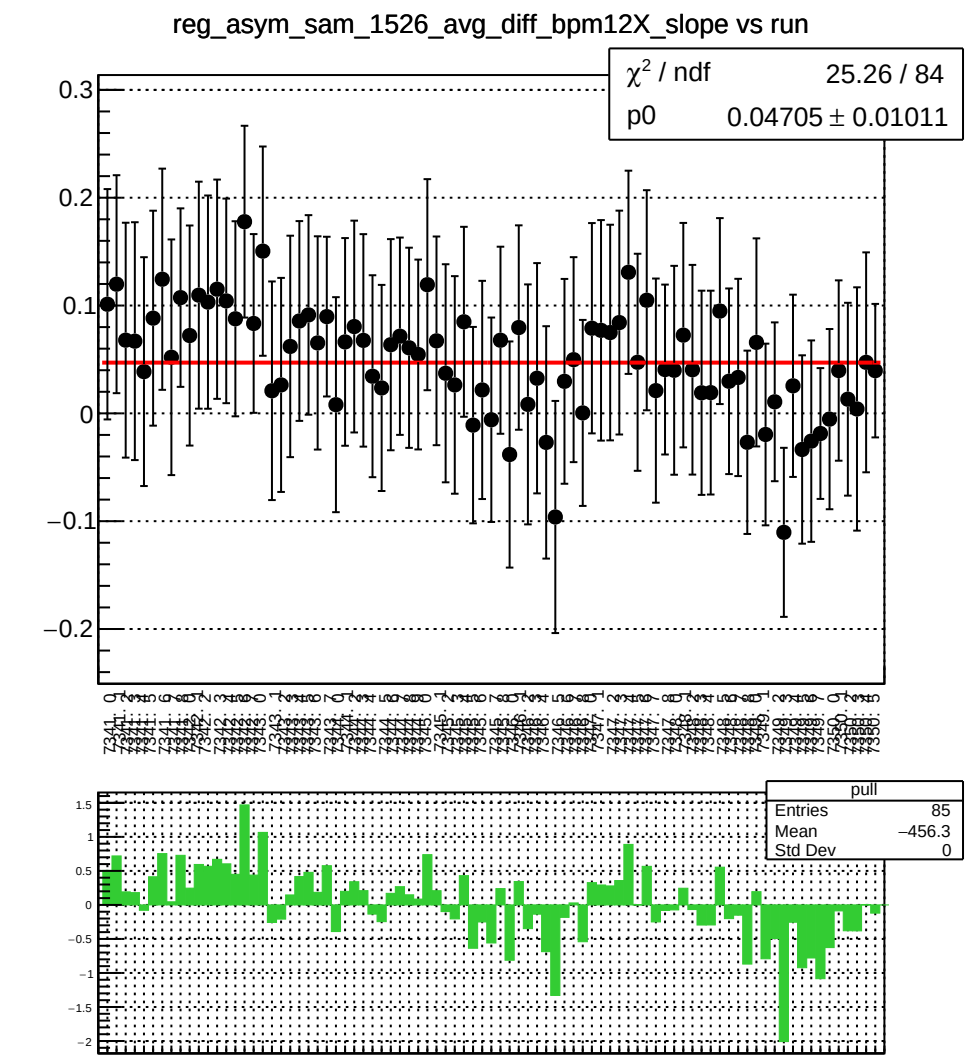

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 413.7 / 84
p0 −20.55 ± 0.2295
pull
Entries 85
Mean −6.744
Std Dev 0

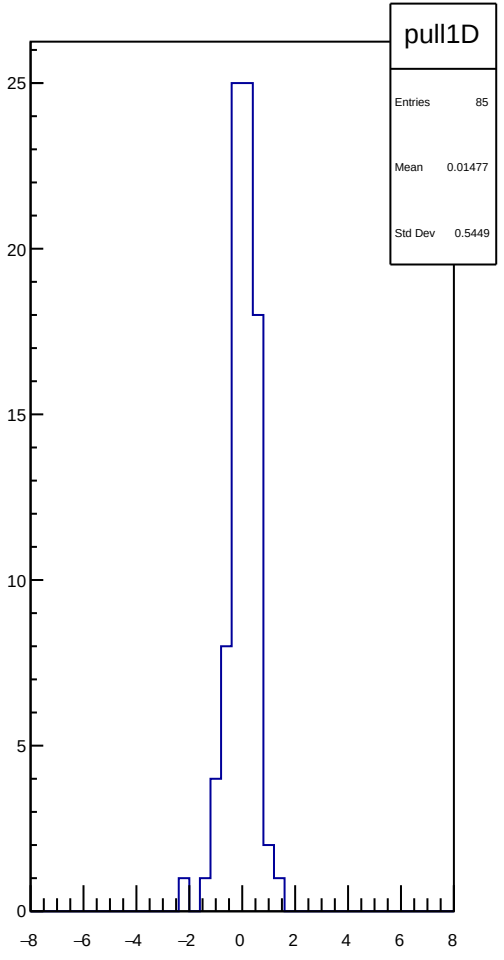

pull1D
Entries 85
Mean 0.453
Std Dev 2.159

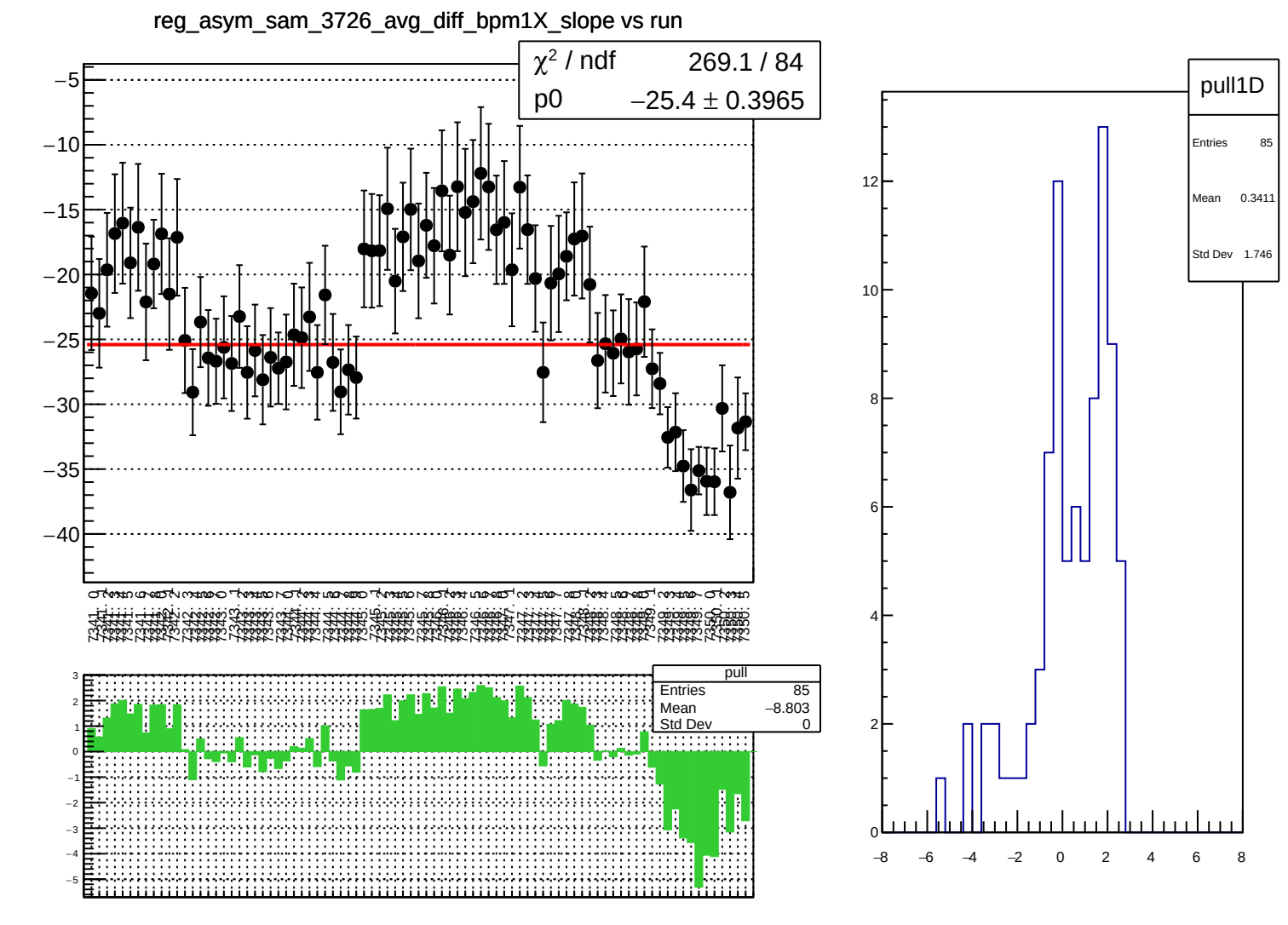

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 99.45 / 84
p0 9.083 ± 0.2075
pull
Entries 85
Mean −232.5
Std Dev 0
pull1D
Entries 85
Mean −0.04664
Std Dev 1.081

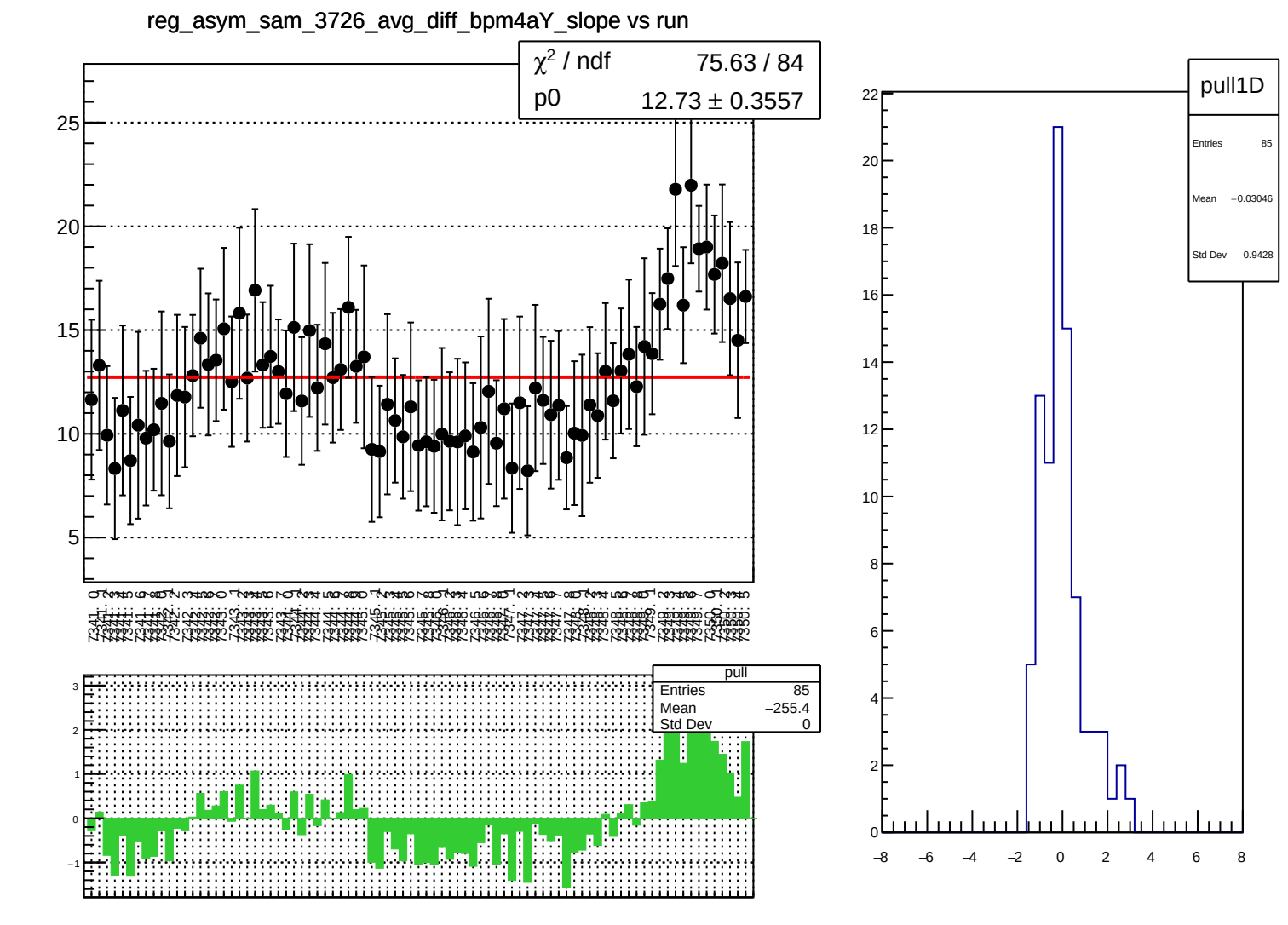

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 625 / 84
p0 −8.284 ± 0.2258
pull
Entries 85
Mean −4.962
Std Dev 0
pull1D
Entries 85
Mean −0.5911
Std Dev 2.647

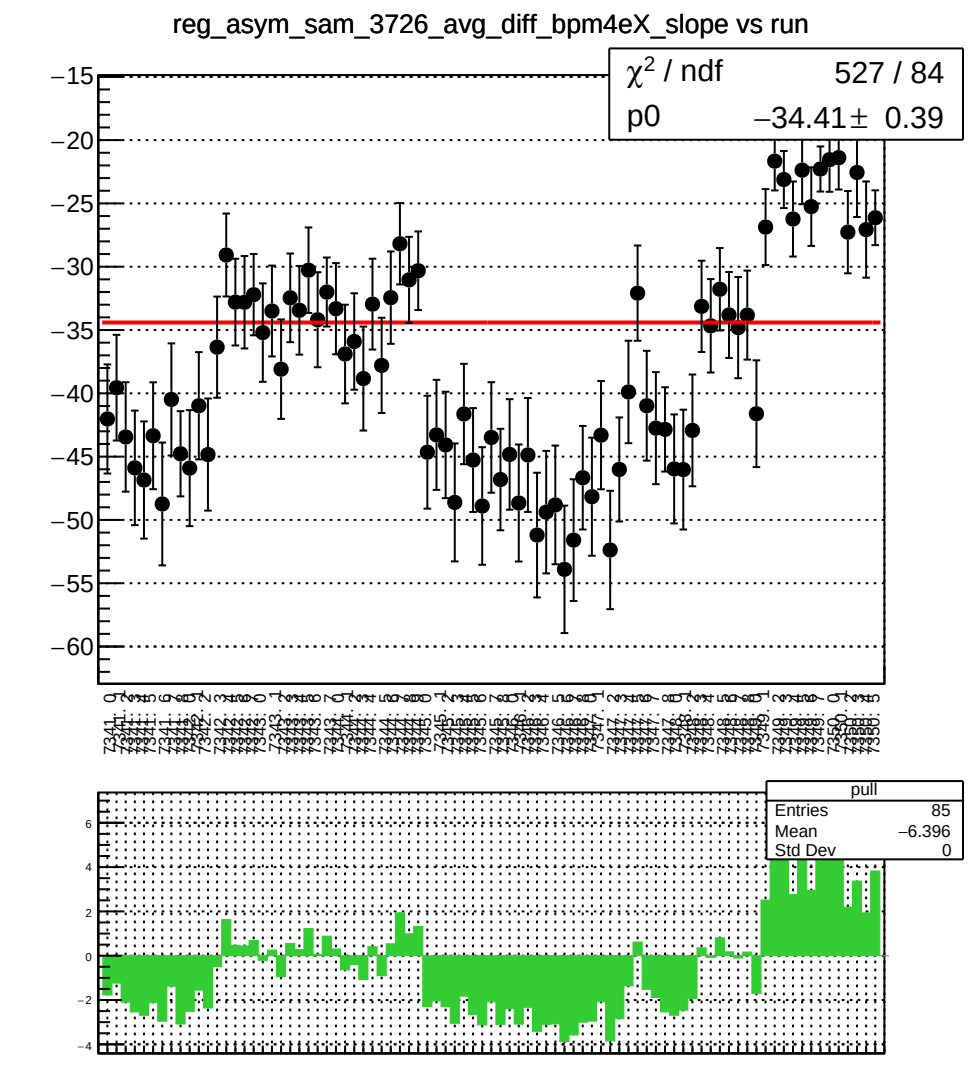

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 258.8 / 84
p0 11.88 ± 0.2261
pull
Entries 85
Mean −88.38
Std Dev 0
pull1D
Entries 85
Mean 0.141
Std Dev 1.739

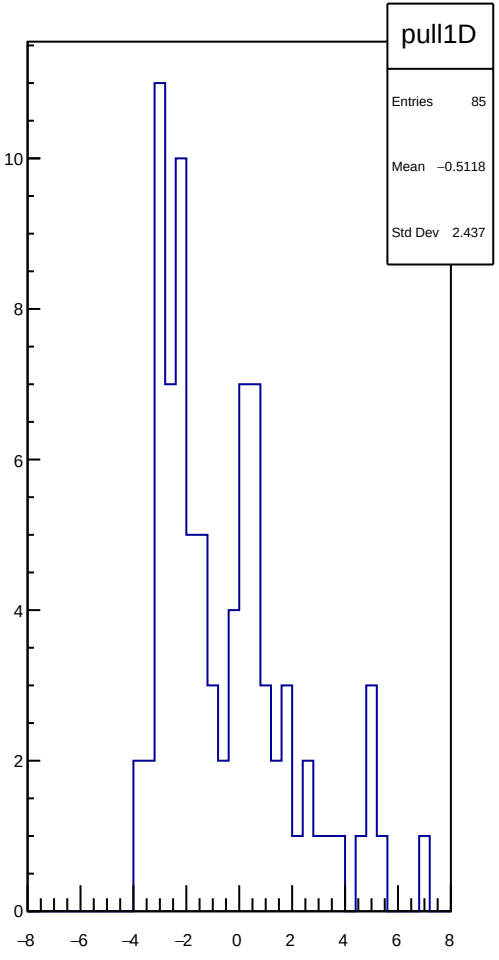

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 25.26 / 84
p0 0.04705 ± 0.01011
pull
Entries 85
Mean −456.3
Std Dev 0

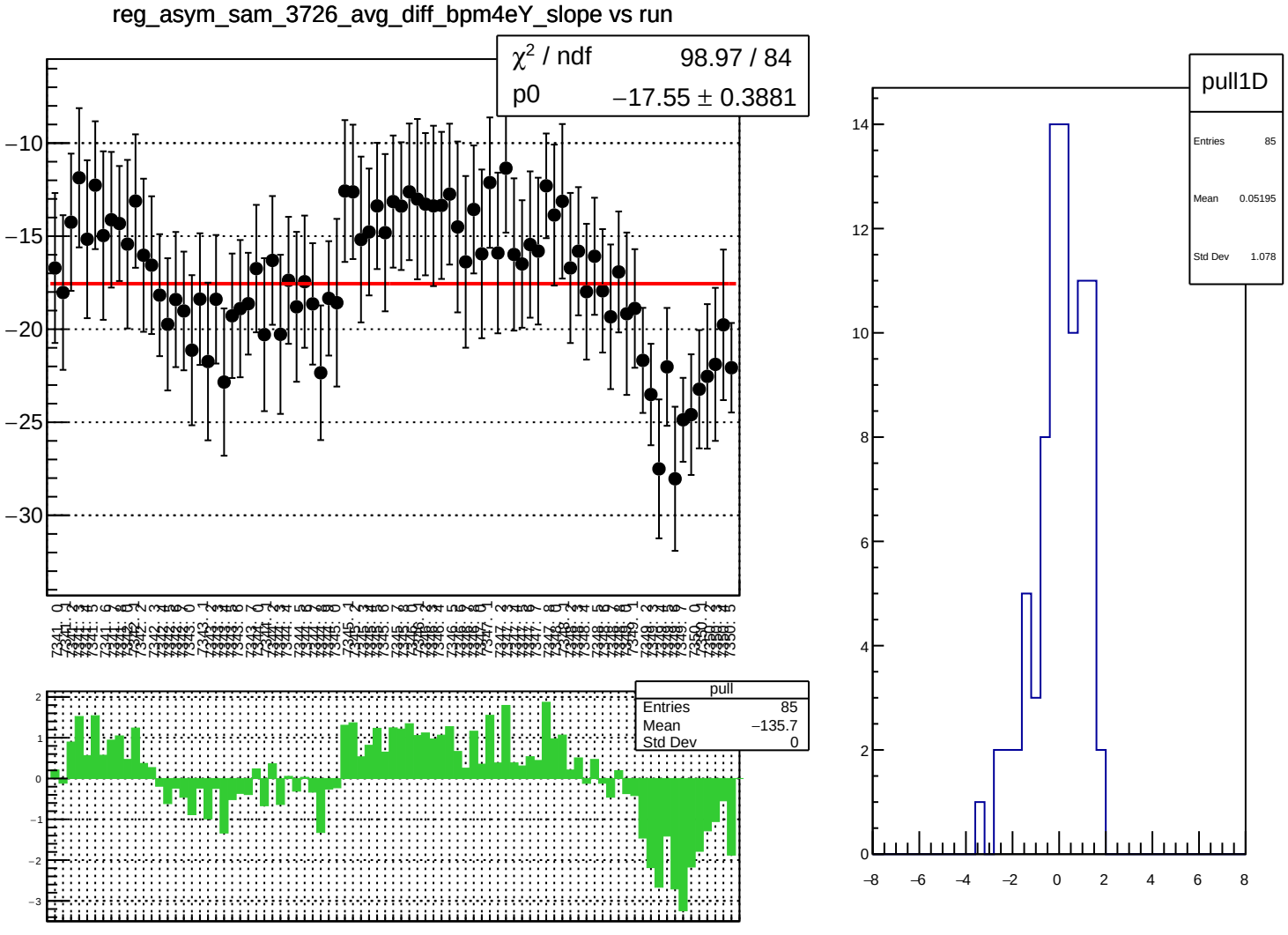

pull1D
Entries 85
Mean 0.01477
Std Dev 0.5449

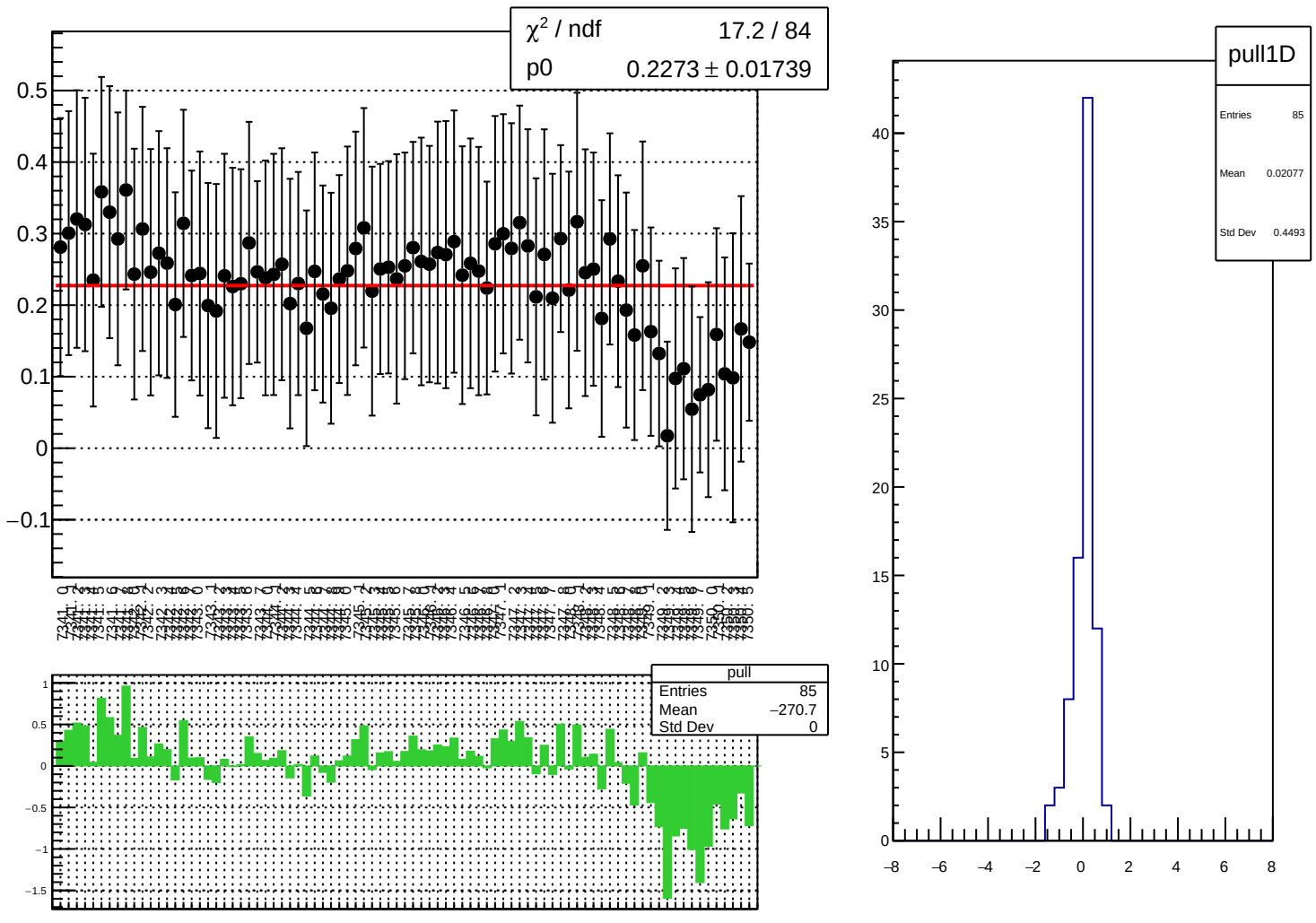

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 269.1 / 84
p0 −25.4 ± 0.3965
pull
Entries 85
Mean −8.803
Std Dev 0
pull1D
Entries 85
Mean 0.3411
Std Dev 1.746

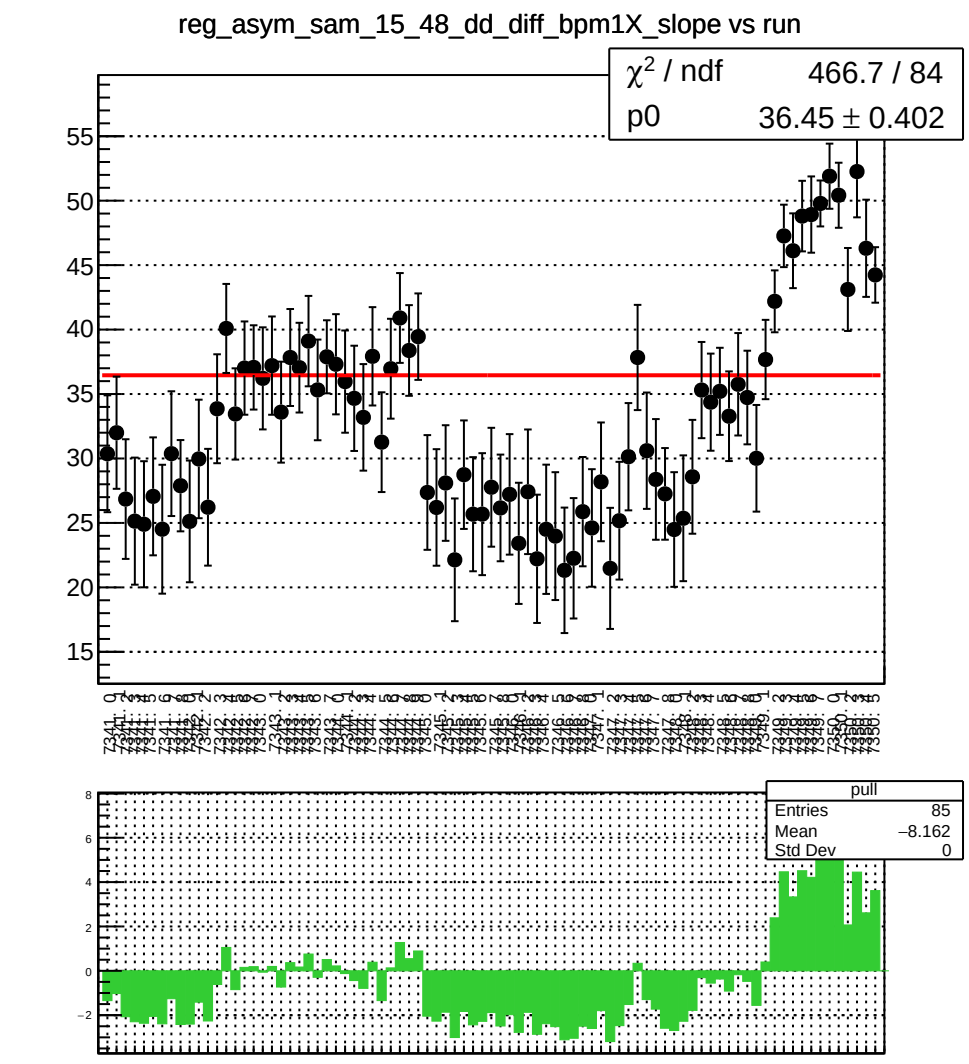

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.63 / 84
p0 12.73 ± 0.3557
pull
Entries 85
Mean −255.4
Std Dev 0
pull1D
Entries 85
Mean −0.03046
Std Dev 0.9428

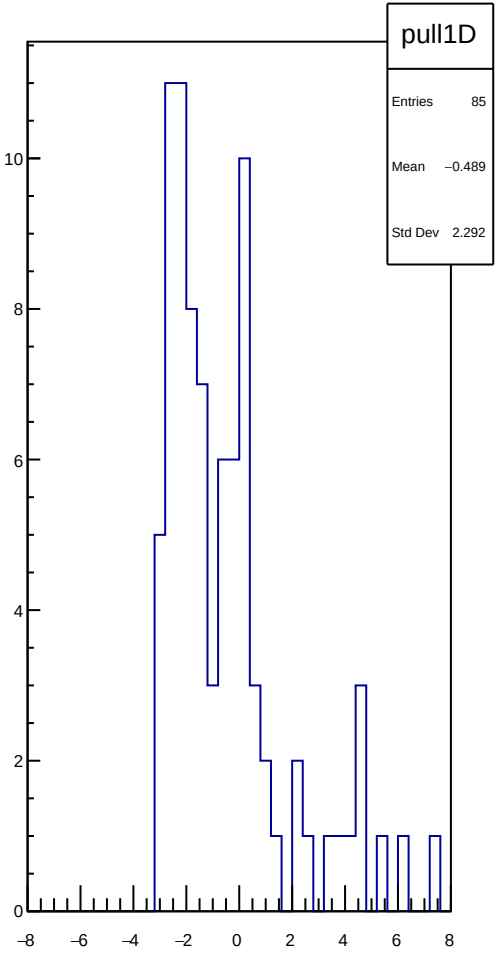

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 527 / 84
p0 −34.41 ± 0.39
pull
Entries 85
Mean −6.396
Std Dev 0

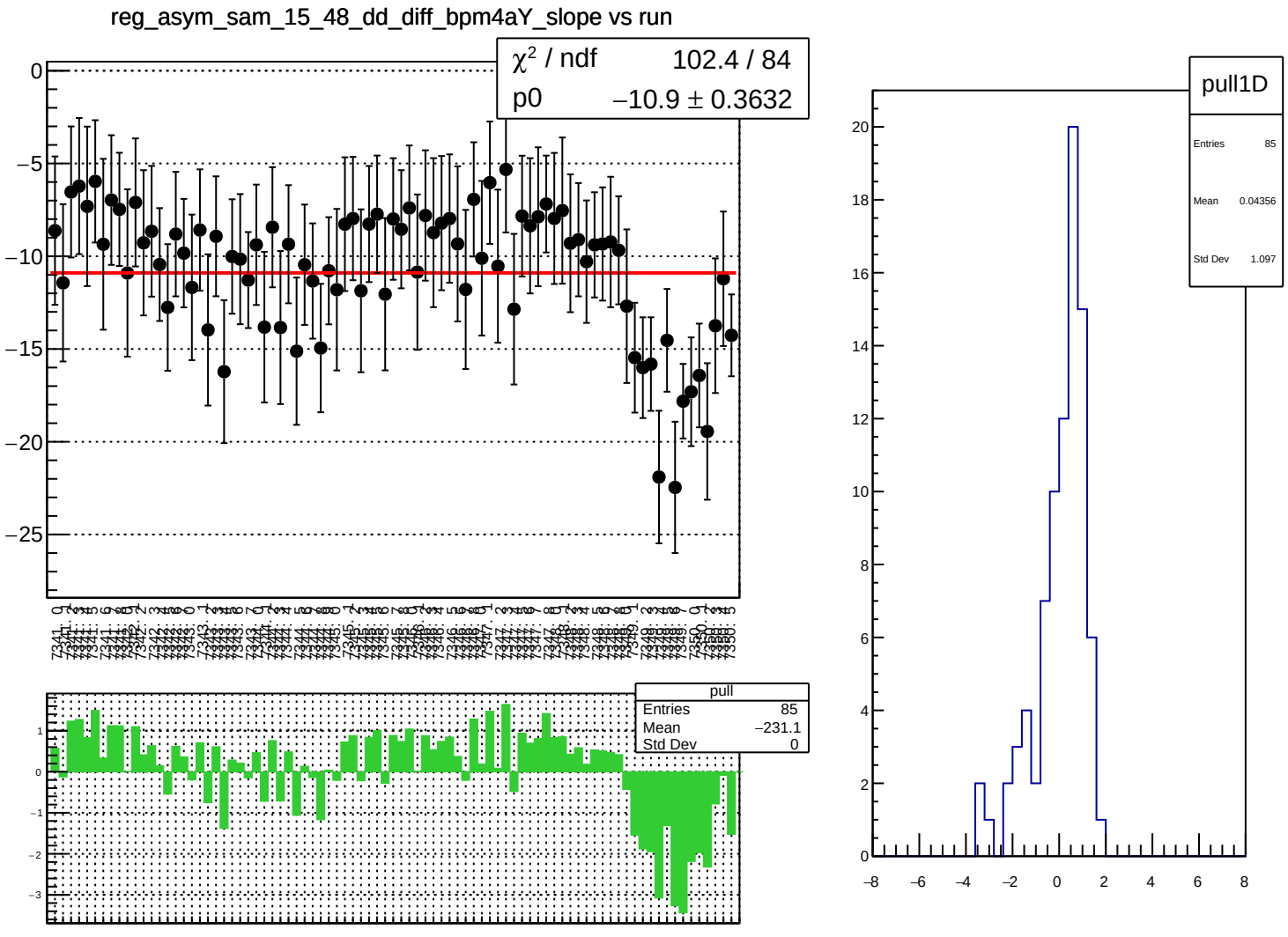

pull1D
Entries 85
Mean −0.5118
Std Dev 2.437

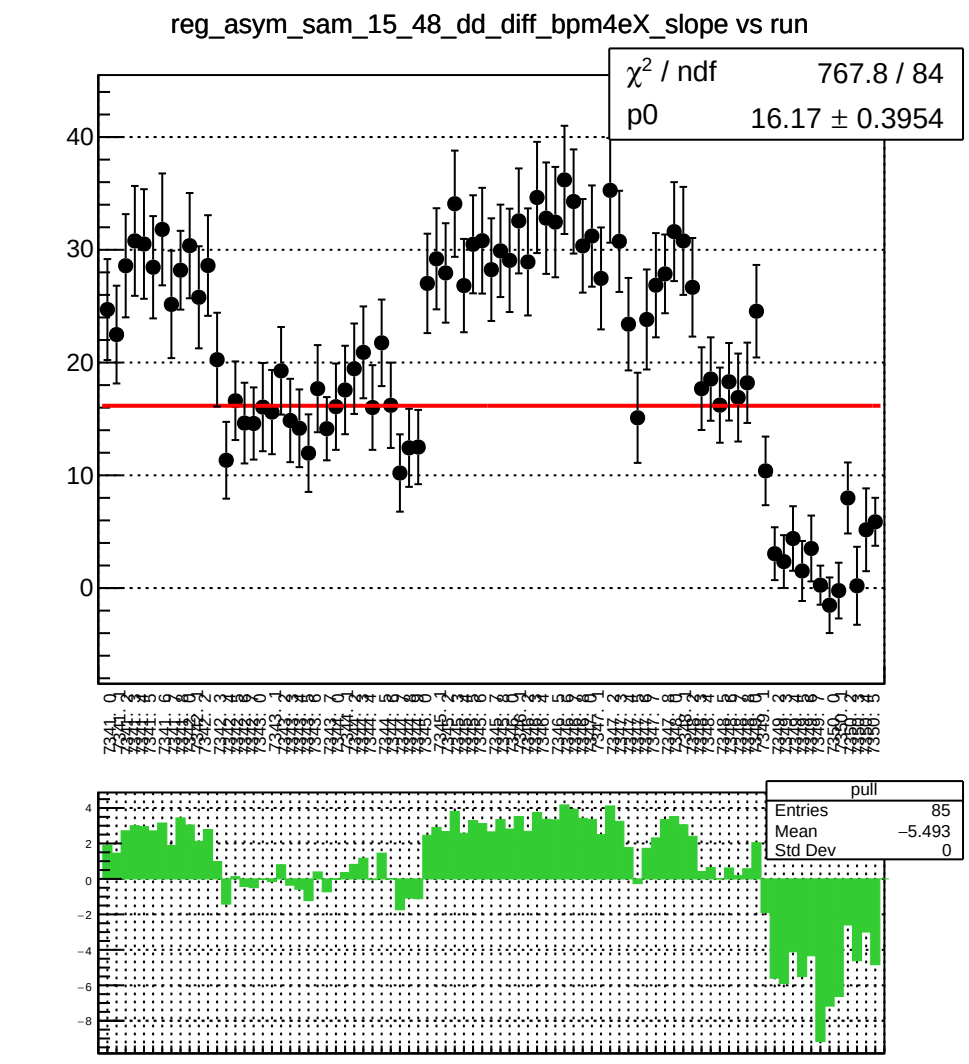

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.97 / 84
p0 −17.55 ± 0.3881
pull
Entries 85
Mean −135.7
Std Dev 0
pull1D
Entries 85
Mean 0.05195
Std Dev 1.078

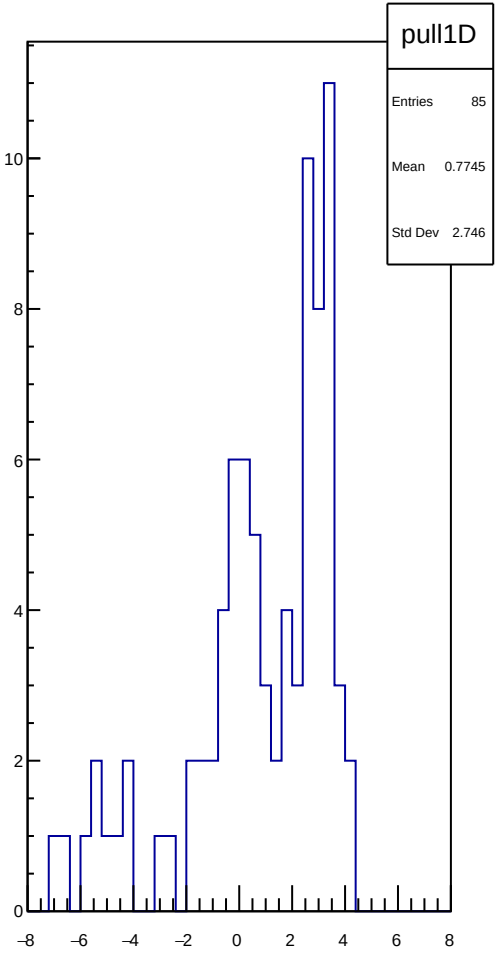

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 17.2 / 84
p0 0.2273 ± 0.01739
pull
Entries 85
Mean −270.7
Std Dev 0
pull1D
Entries 85
Mean 0.02077
Std Dev 0.4493

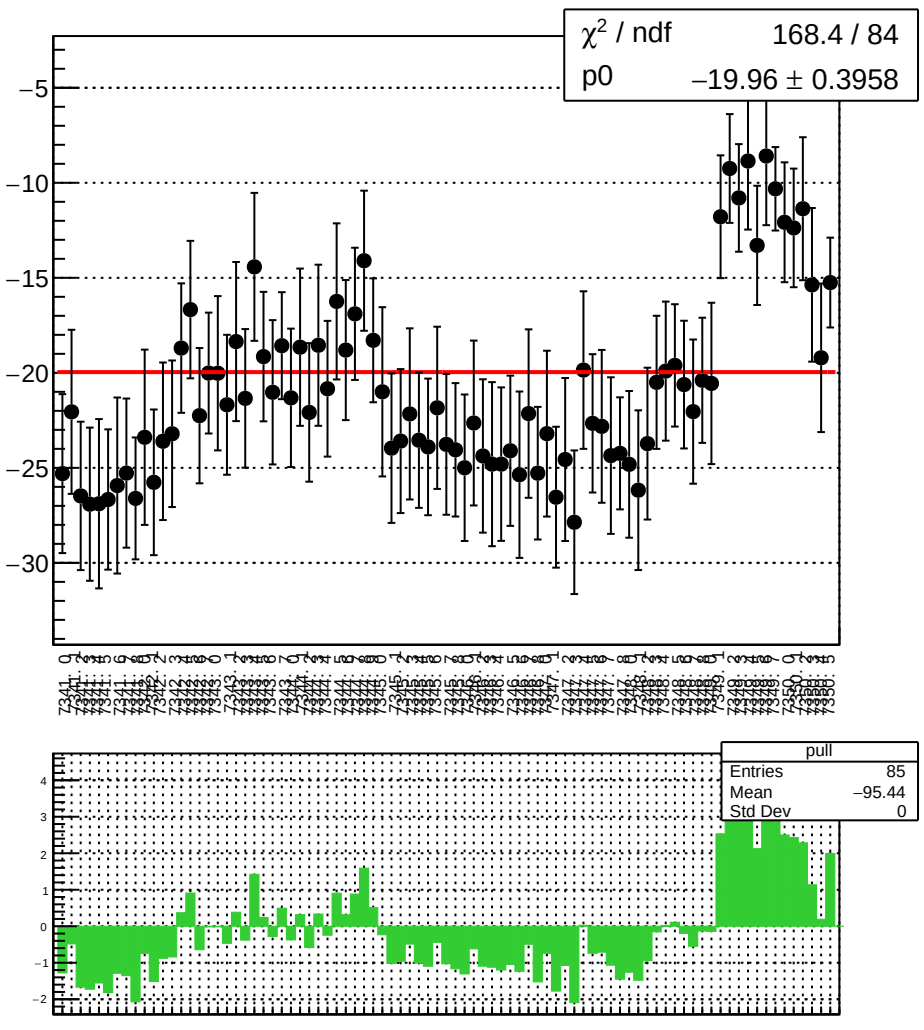

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 466.7 / 84
p0 36.45 ± 0.402
pull
Entries 85
Mean −8.162
Std Dev 0

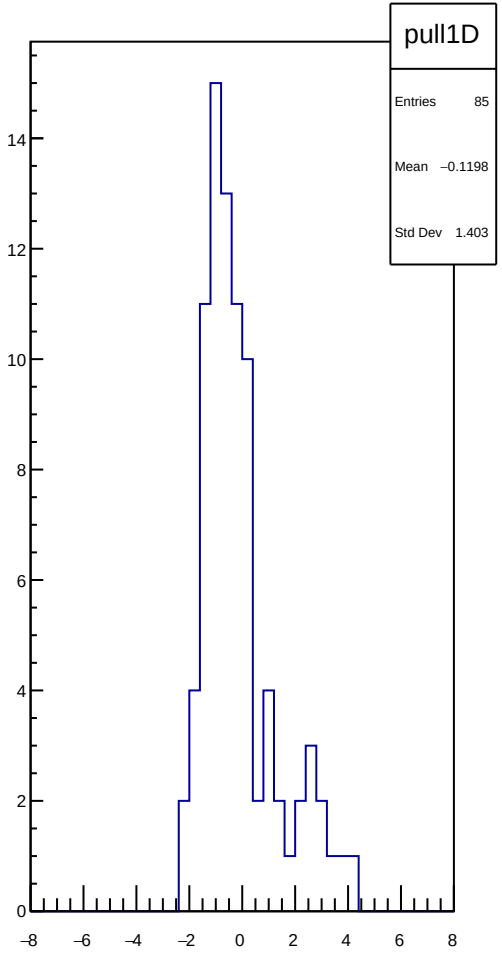

pull1D
Entries 85
Mean −0.489
Std Dev 2.292

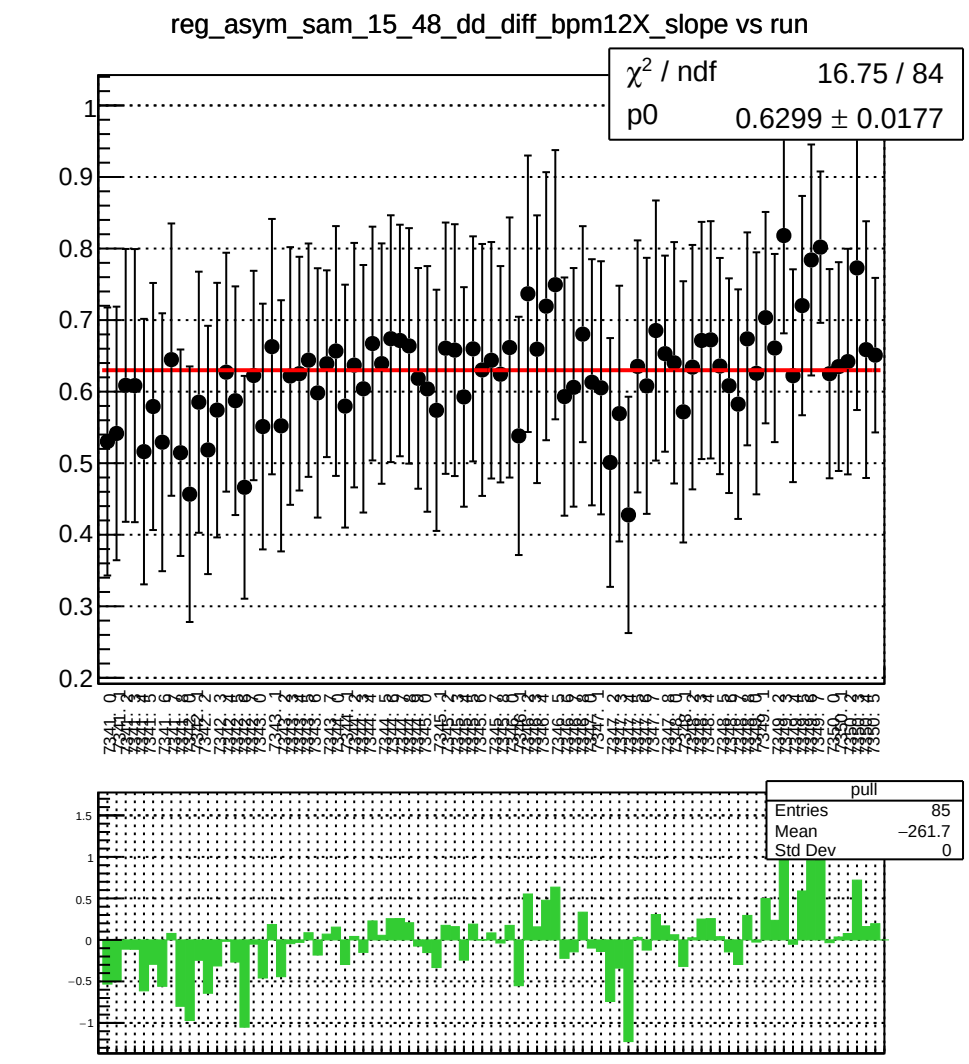

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 102.4 / 84
p0 −10.9 ± 0.3632
pull
Entries 85
Mean −231.1
Std Dev 0
pull1D
Entries 85
Mean 0.04356
Std Dev 1.097

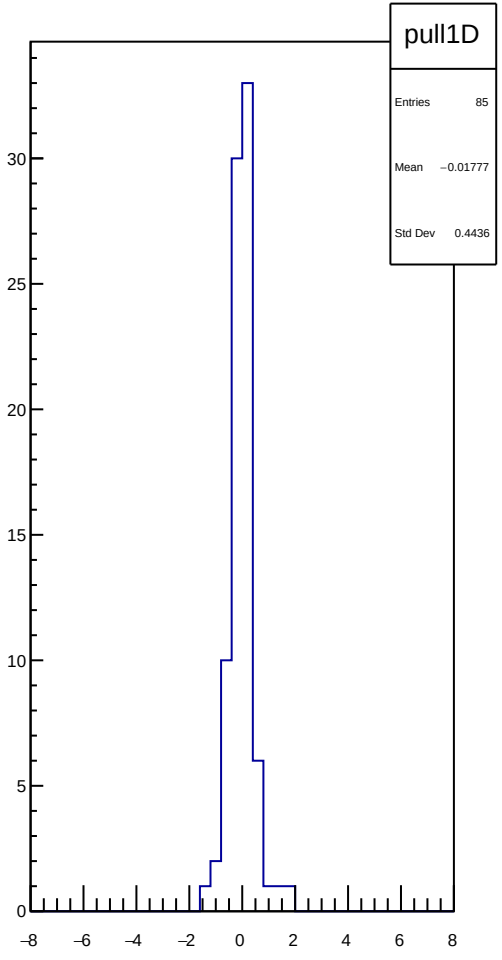

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 767.8 / 84
p0 16.17 ± 0.3954
pull
Entries 85
Mean −5.493
Std Dev 0

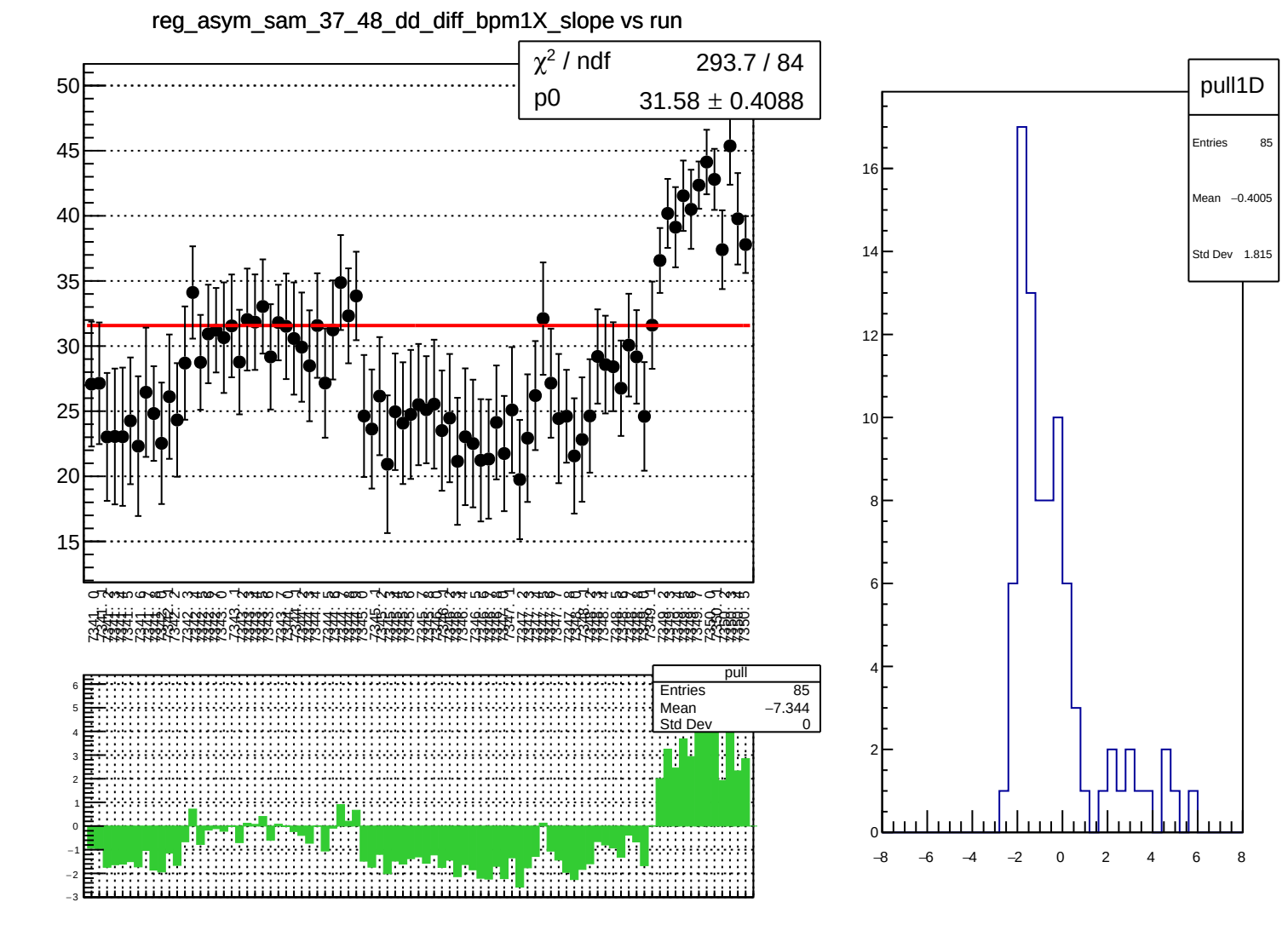

pull1D
Entries 85
Mean 0.7745
Std Dev 2.746

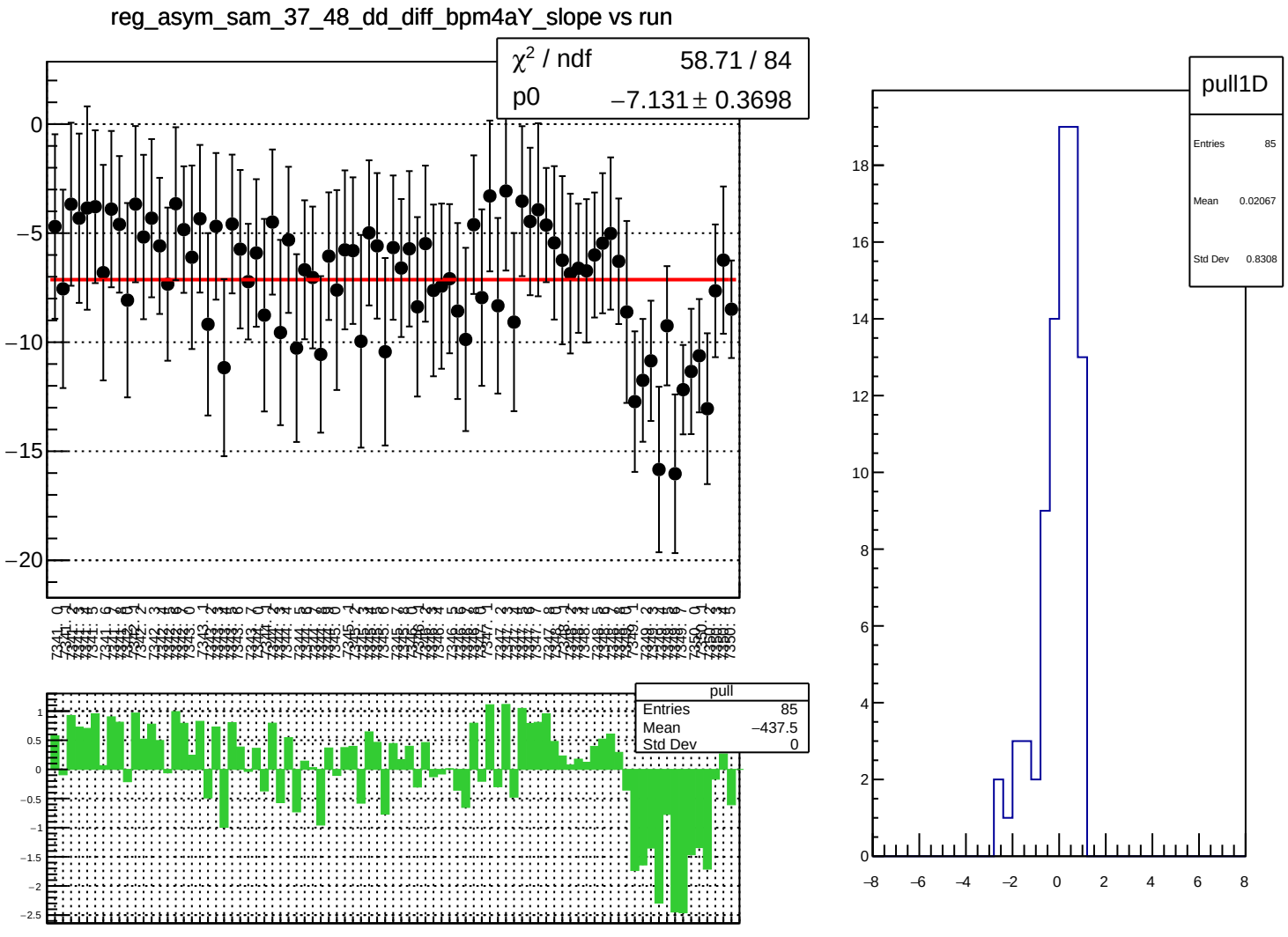

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 168.4 / 84
p0 −19.96 ± 0.3958
pull
Entries 85
Mean −95.44
Std Dev 0

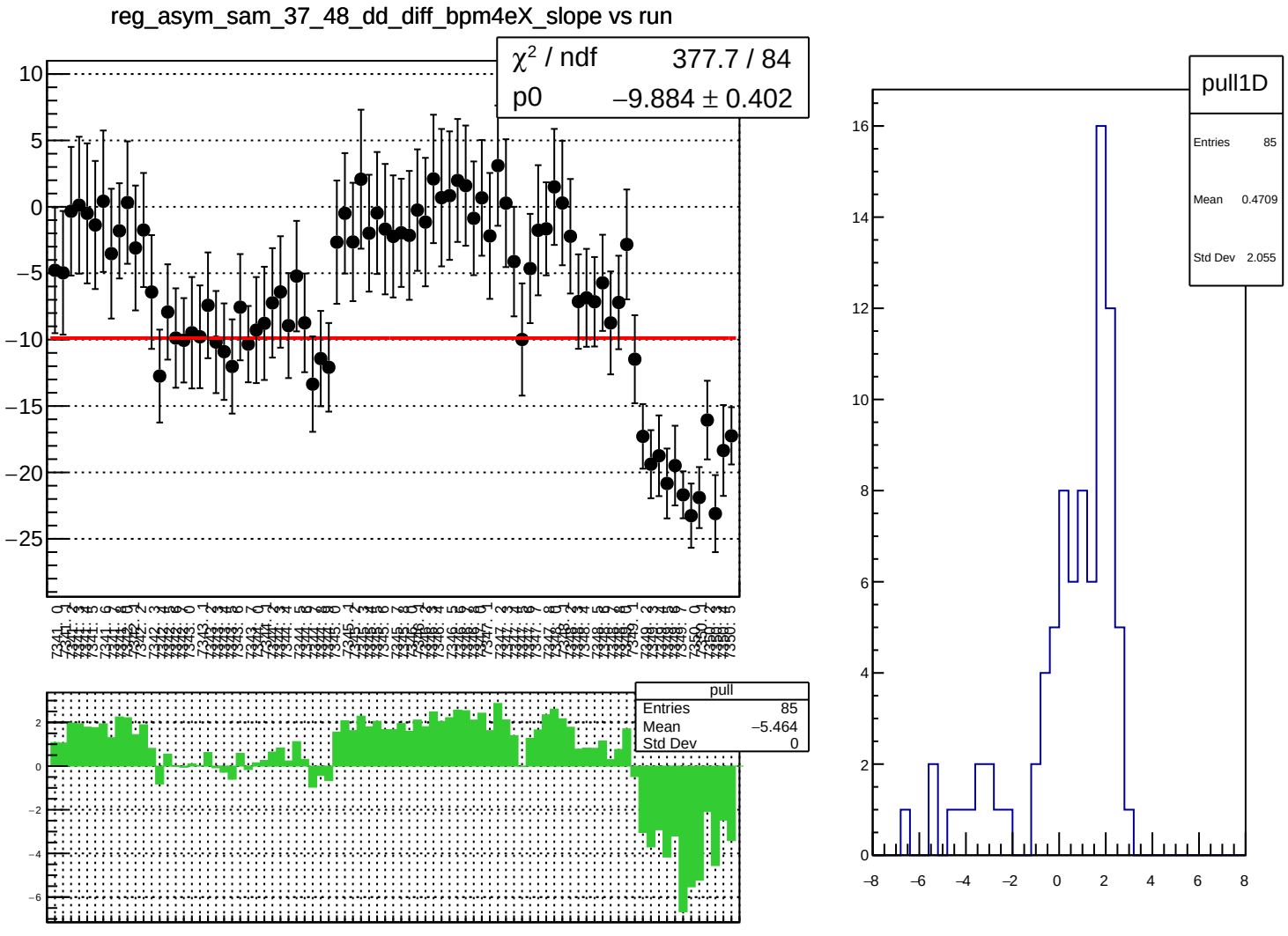

pull1D
Entries 85
Mean −0.1198
Std Dev 1.403

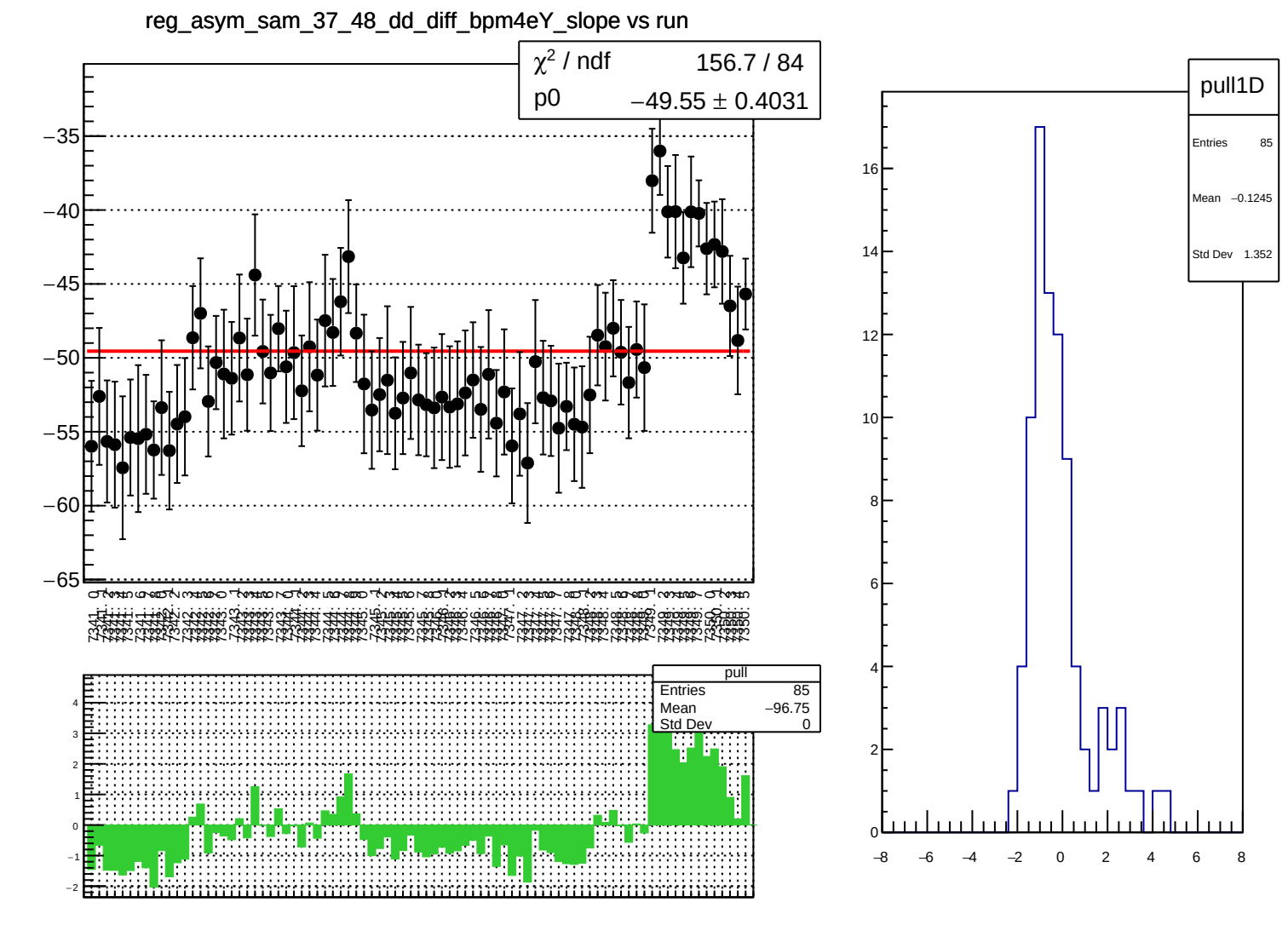

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 16.75 / 84
p0 0.6299 ± 0.0177
pull
Entries 85
Mean −261.7
Std Dev 0

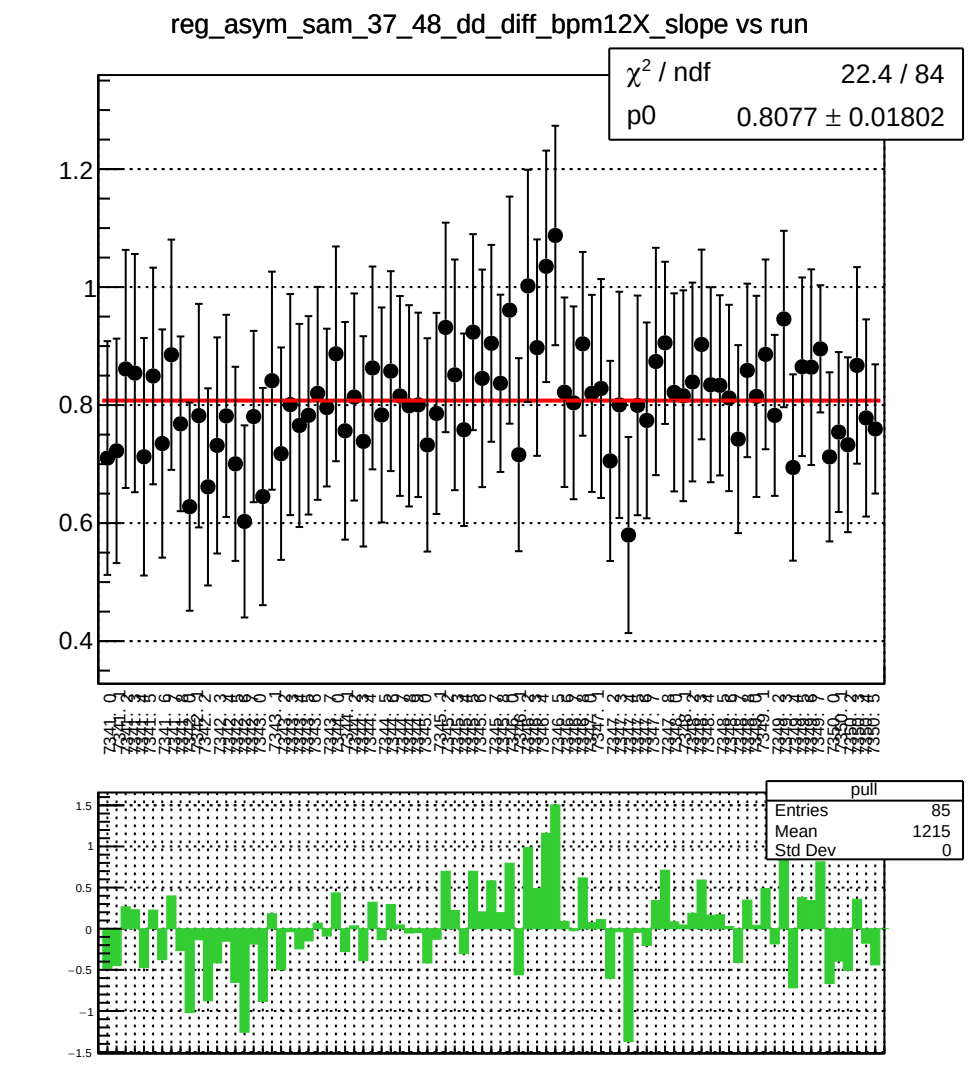

pull1D
Entries 85
Mean −0.01777
Std Dev 0.4436

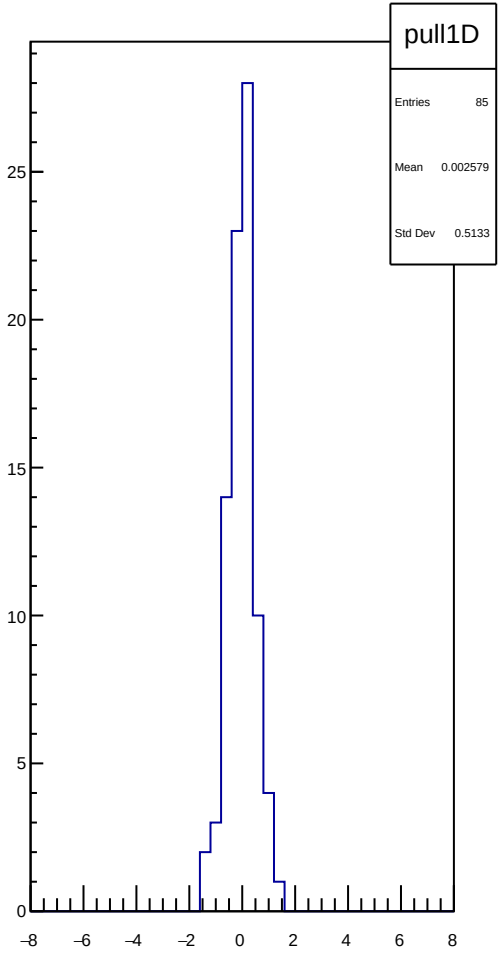

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 293.7 / 84
p0 31.58 ± 0.4088
pull
Entries 85
Mean −7.344
Std Dev 0
pull1D
Entries 85
Mean −0.4005
Std Dev 1.815

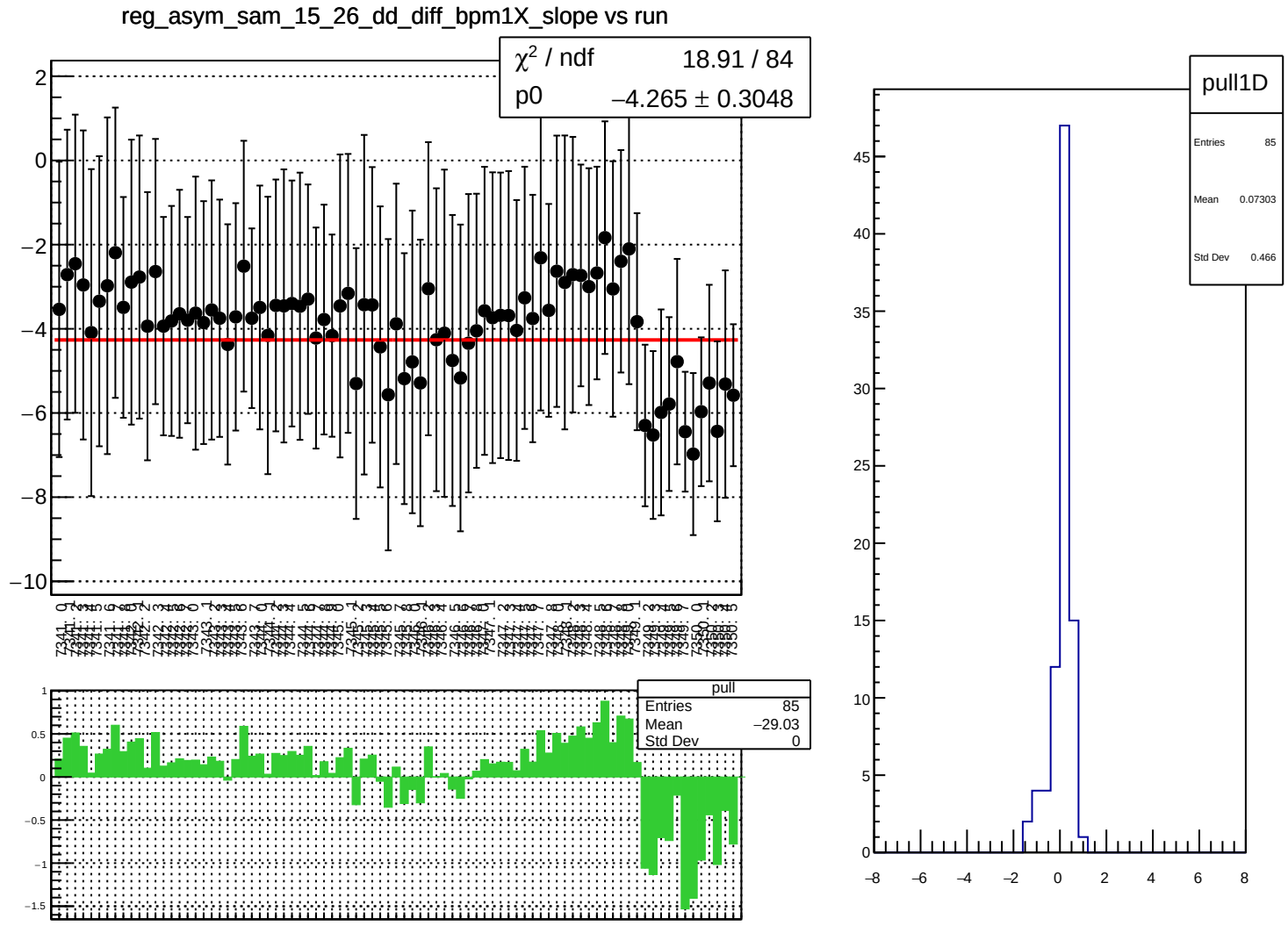

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.71 / 84
p0 −7.131 ± 0.3698
pull
Entries 85
Mean −437.5
Std Dev 0
pull1D
Entries 85
Mean 0.02067
Std Dev 0.8308

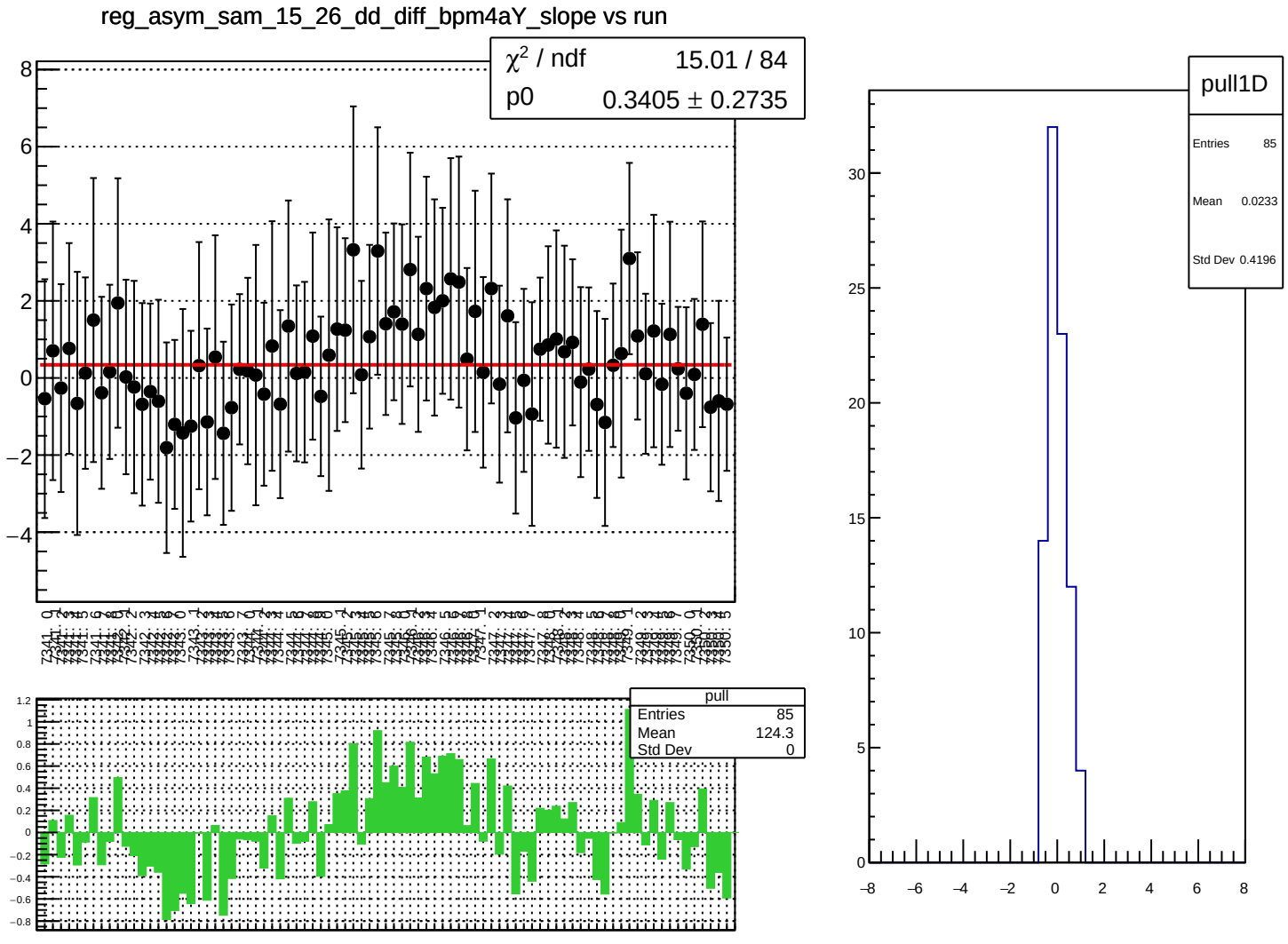

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 377.7 / 84
p0 −9.884 ± 0.402
pull
Entries 85
Mean −5.464
Std Dev 0
pull1D
Entries 85
Mean 0.4709
Std Dev 2.055

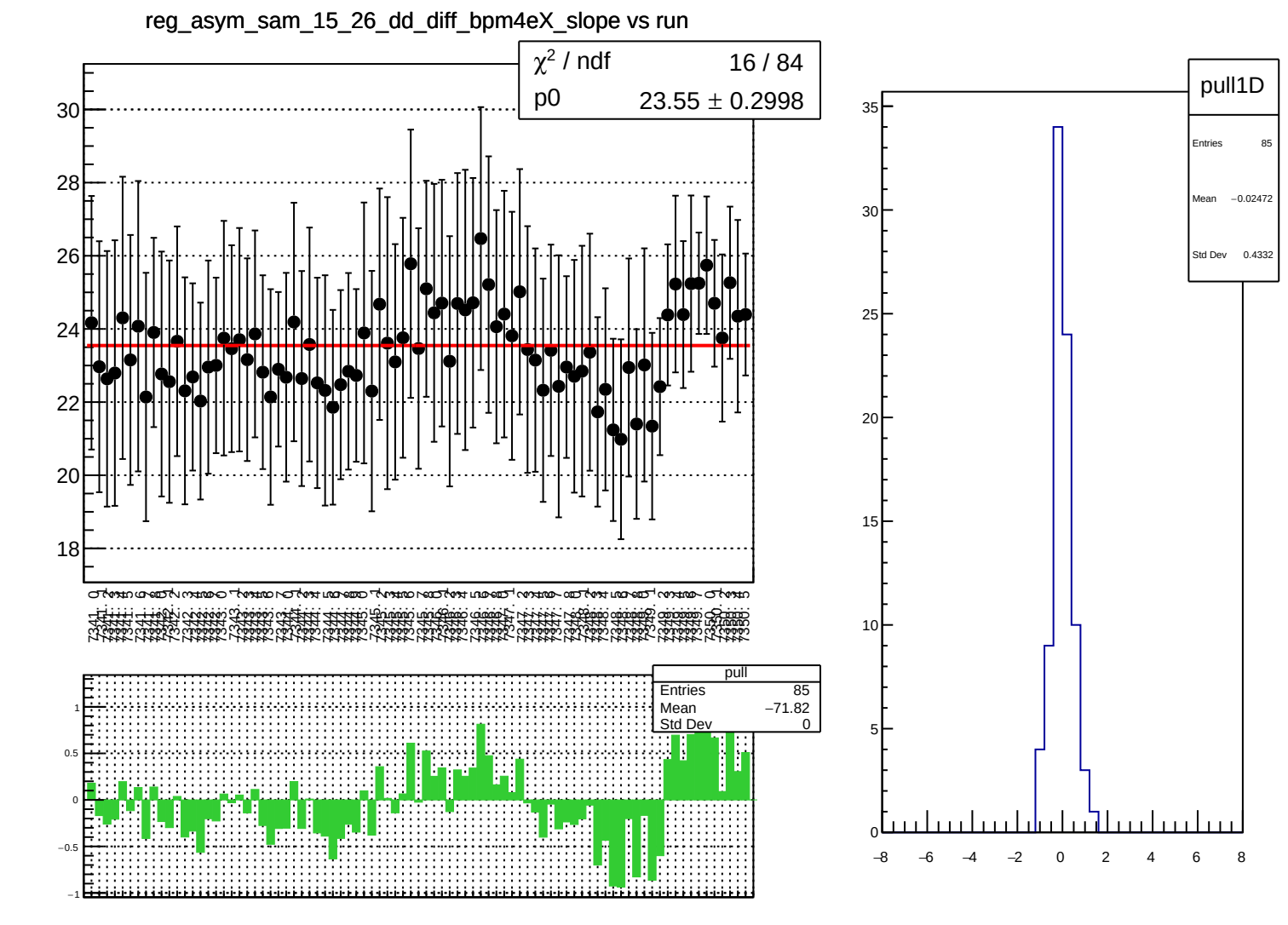

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 156.7 / 84
p0 −49.55 ± 0.4031
pull
Entries 85
Mean −96.75
Std Dev 0
pull1D
Entries 85
Mean −0.1245
Std Dev 1.352

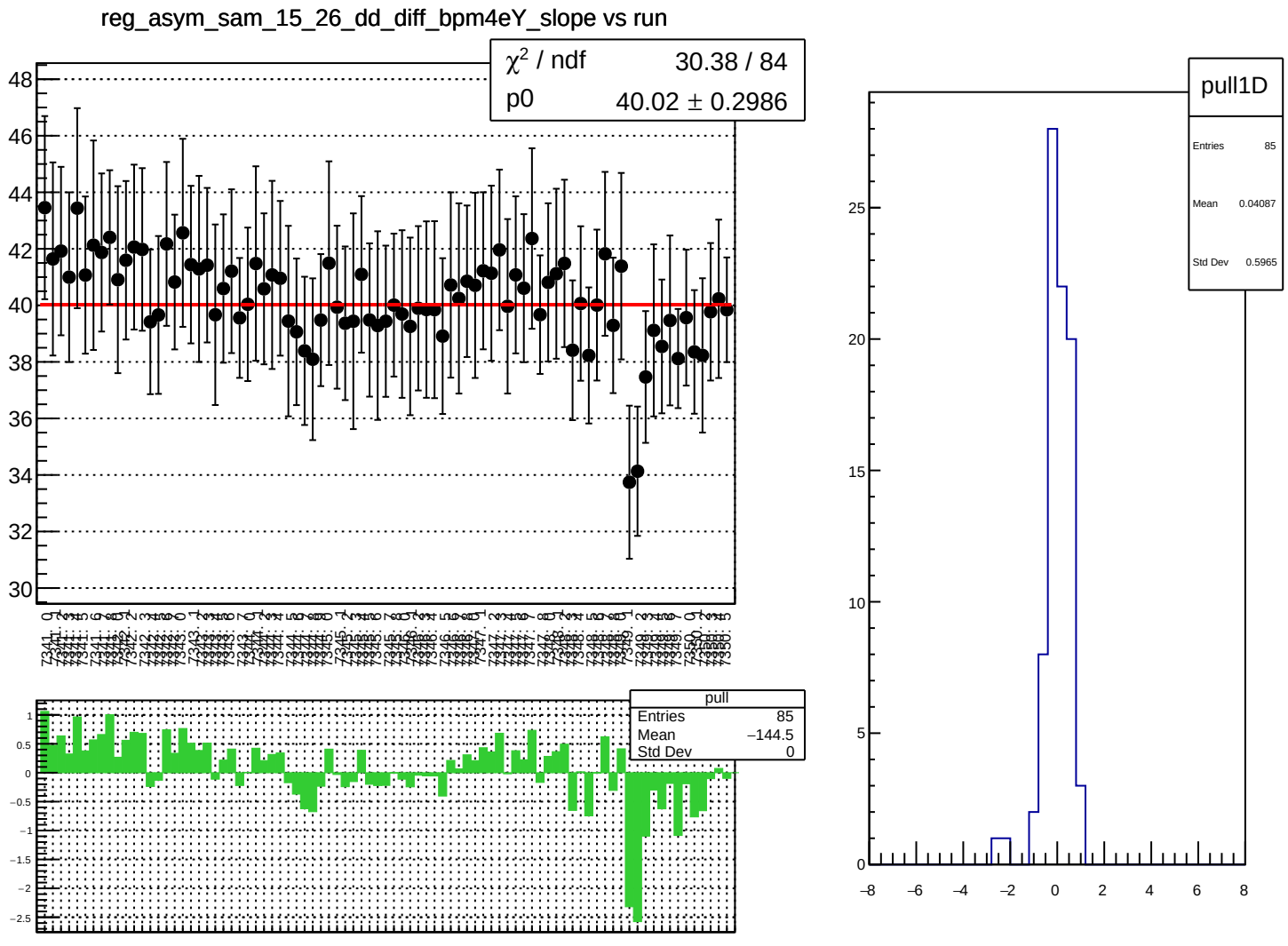

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 22.4 / 84
p0 0.8077 ± 0.01802
pull
Entries 85
Mean 1215
Std Dev 0

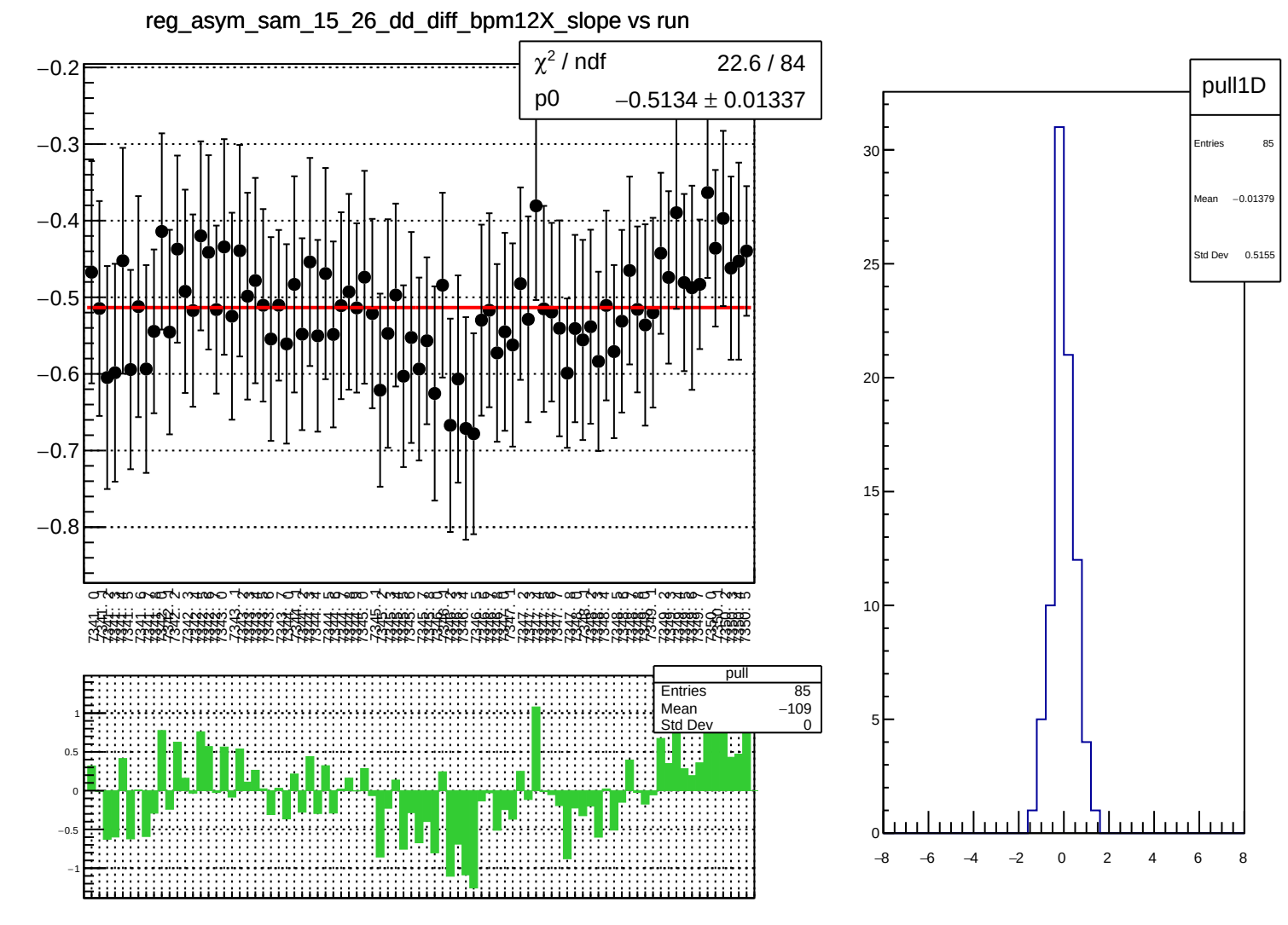

pull1D
Entries 85
Mean 0.002579
Std Dev 0.5133

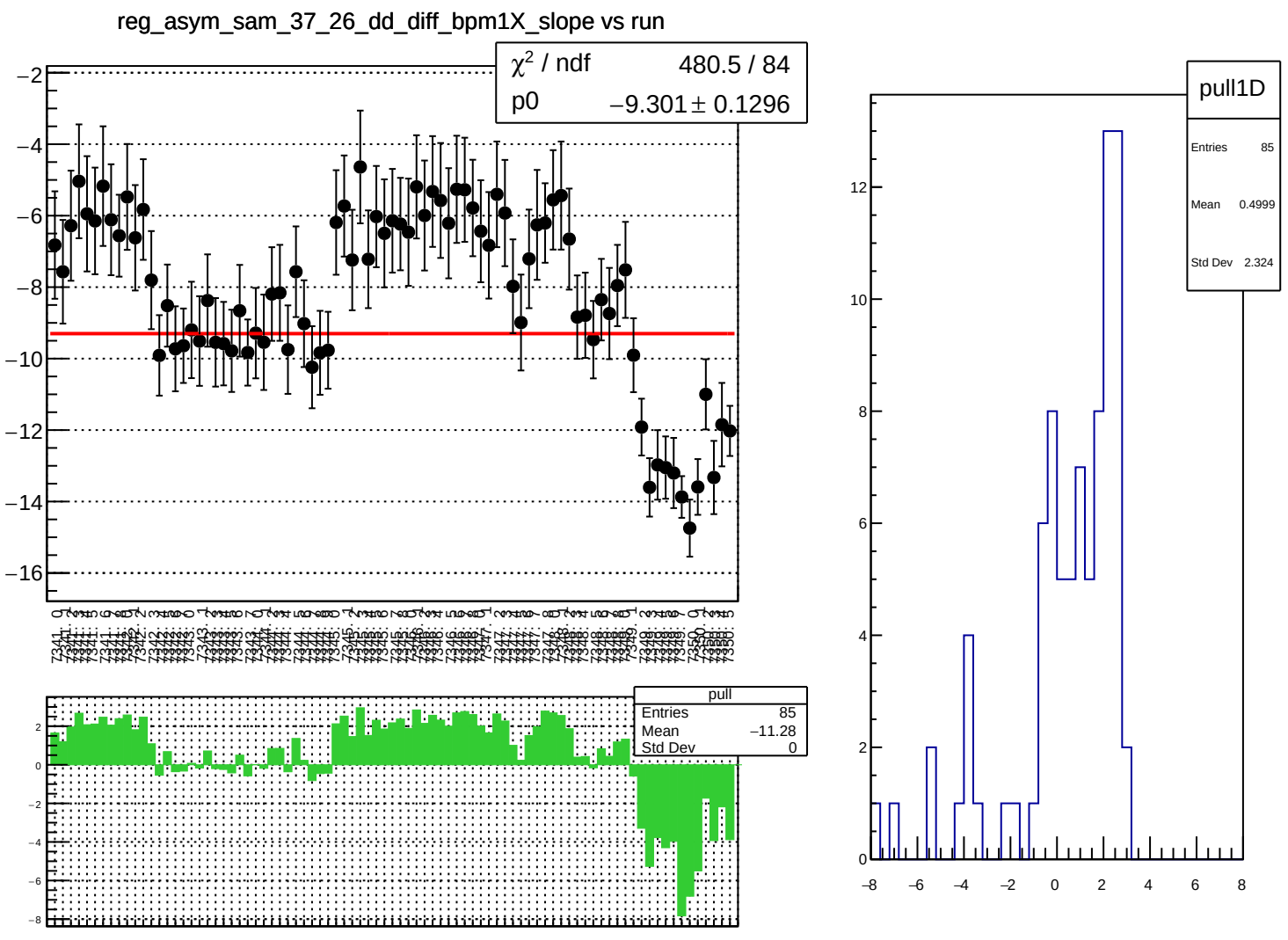

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 18.91 / 84
p0 −4.265 ± 0.3048
pull
Entries 85
Mean −29.03
Std Dev 0
pull1D
Entries 85
Mean 0.07303
Std Dev 0.466

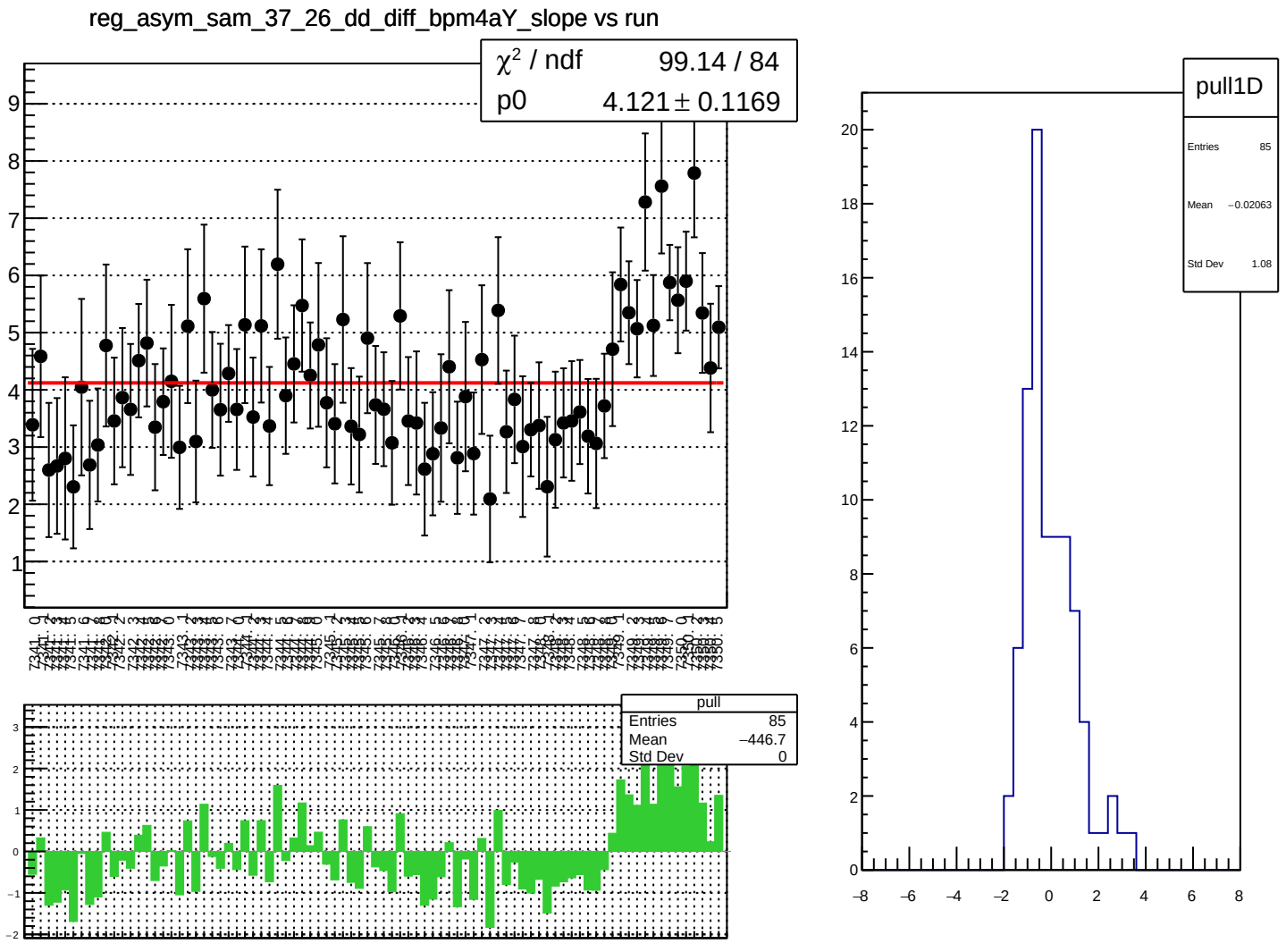

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.01 / 84
p0 0.3405 ± 0.2735
pull
Entries 85
Mean 124.3
Std Dev 0
pull1D
Entries 85
Mean 0.0233
Std Dev 0.4196

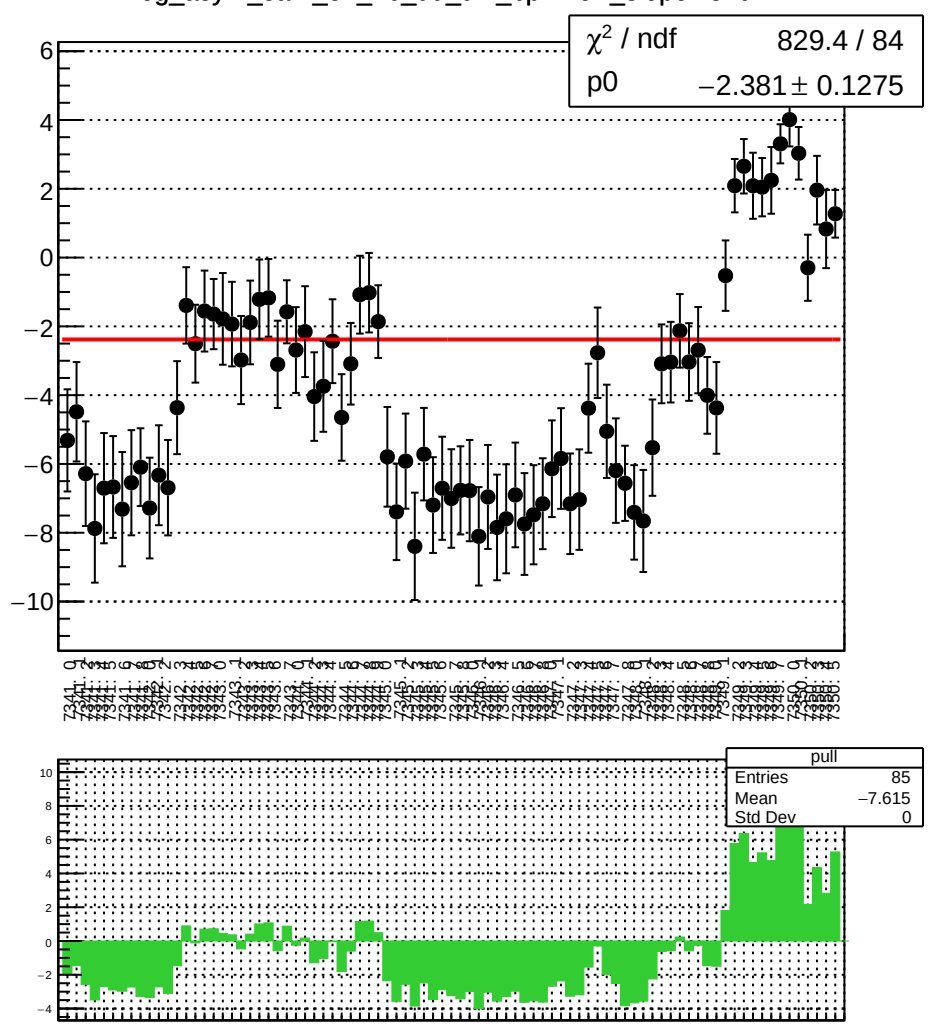

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 16 / 84
p0 23.55 ± 0.2998
pull
Entries 85
Mean −71.82
Std Dev 0
pull1D
Entries 85
Mean −0.02472
Std Dev 0.4332

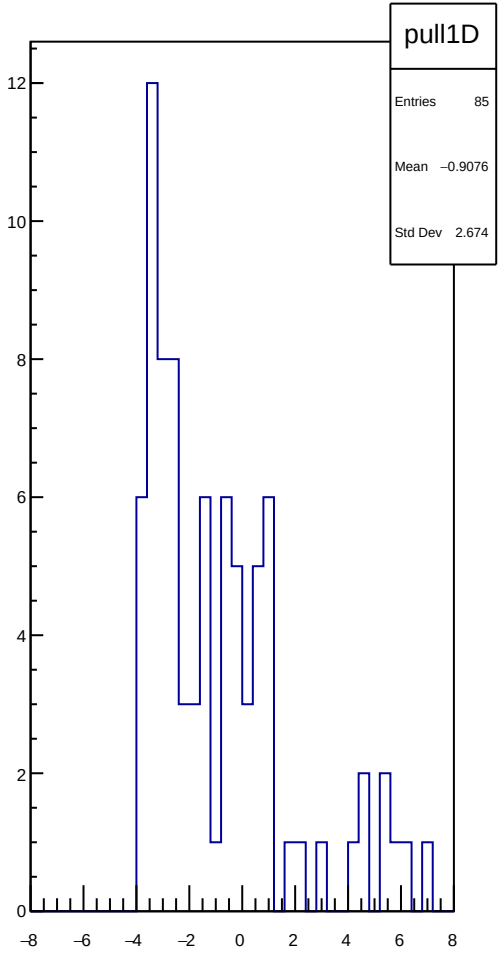

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.38 / 84
p0 40.02 ± 0.2986
pull
Entries 85
Mean −144.5
Std Dev 0
pull1D
Entries 85
Mean 0.04087
Std Dev 0.5965

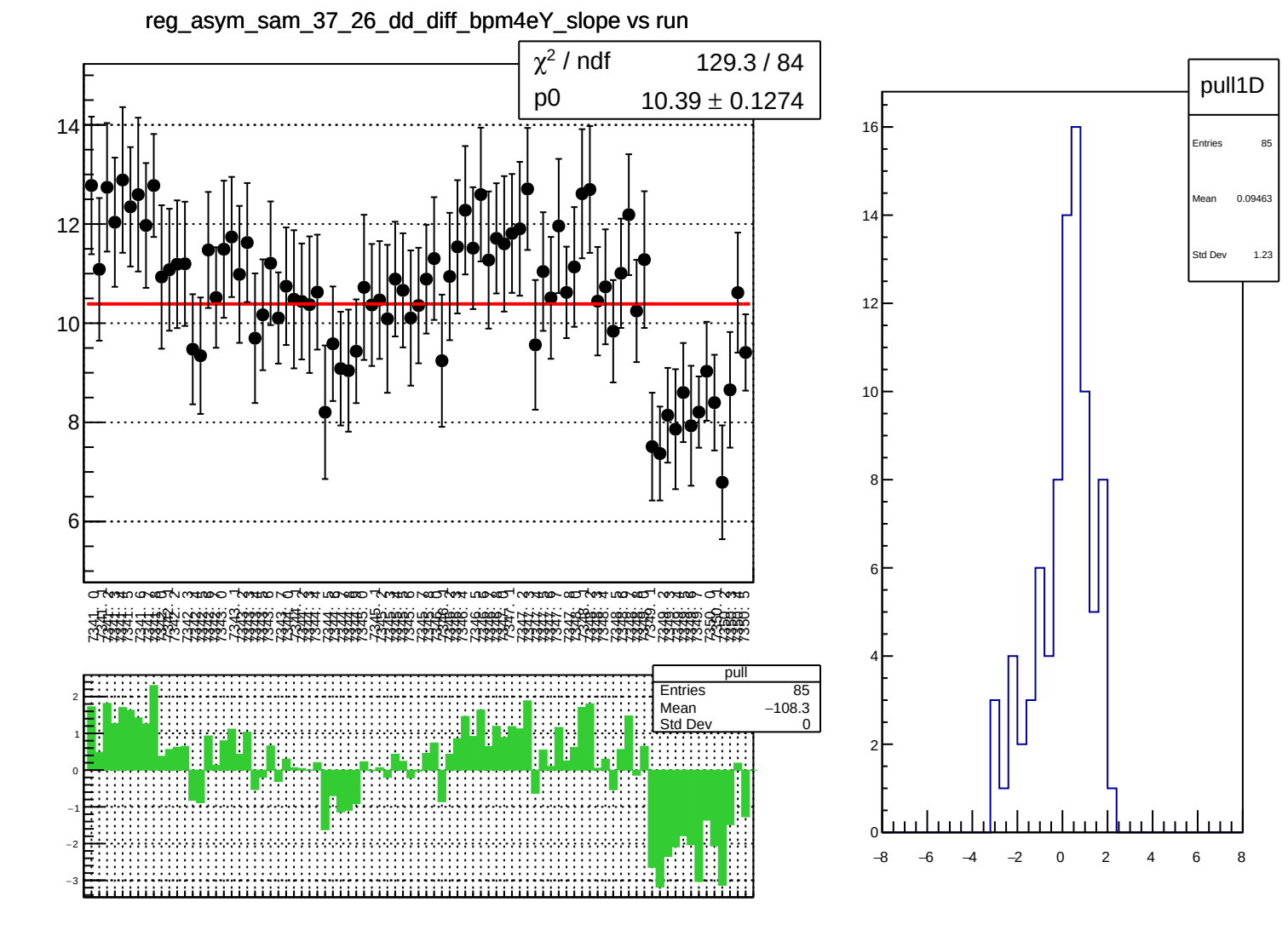

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 22.6 / 84
p0 −0.5134 ± 0.01337
pull
Entries 85
Mean −109
Std Dev 0
pull1D
Entries 85
Mean −0.01379
Std Dev 0.5155

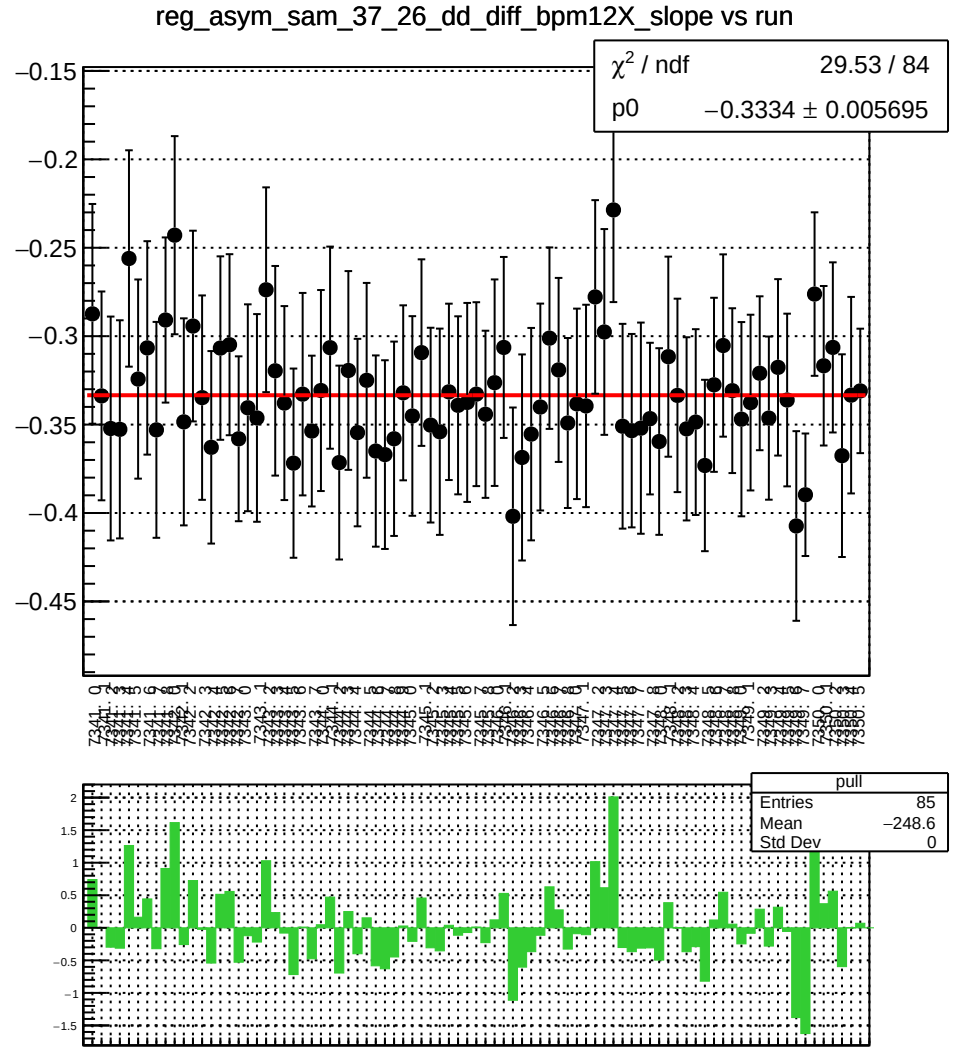

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 480.5 / 84
p0 −9.301 ± 0.1296
pull
Entries 85
Mean −11.28
Std Dev 0
pull1D
Entries 85
Mean 0.4999
Std Dev 2.324

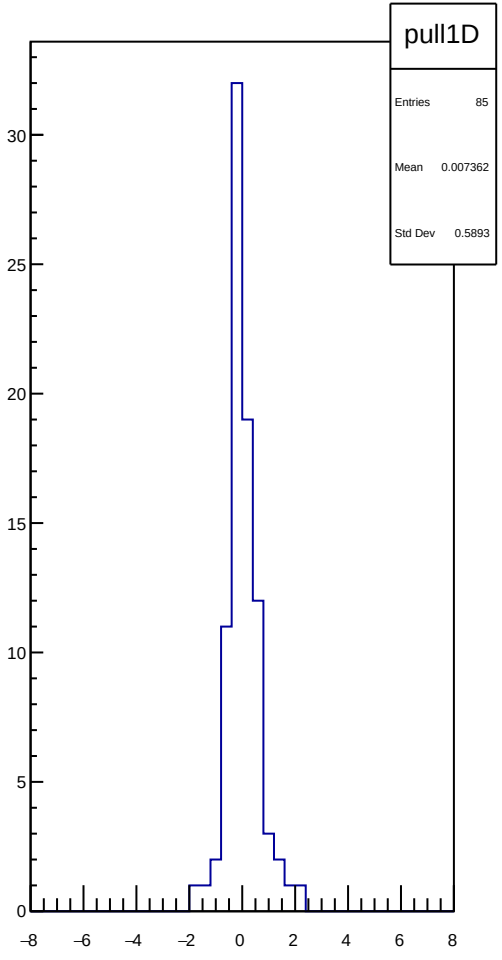

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 99.14 / 84
p0 4.121 ± 0.1169
pull
Entries 85
Mean −446.7
Std Dev 0
pull1D
Entries 85
Mean −0.02063
Std Dev 1.08

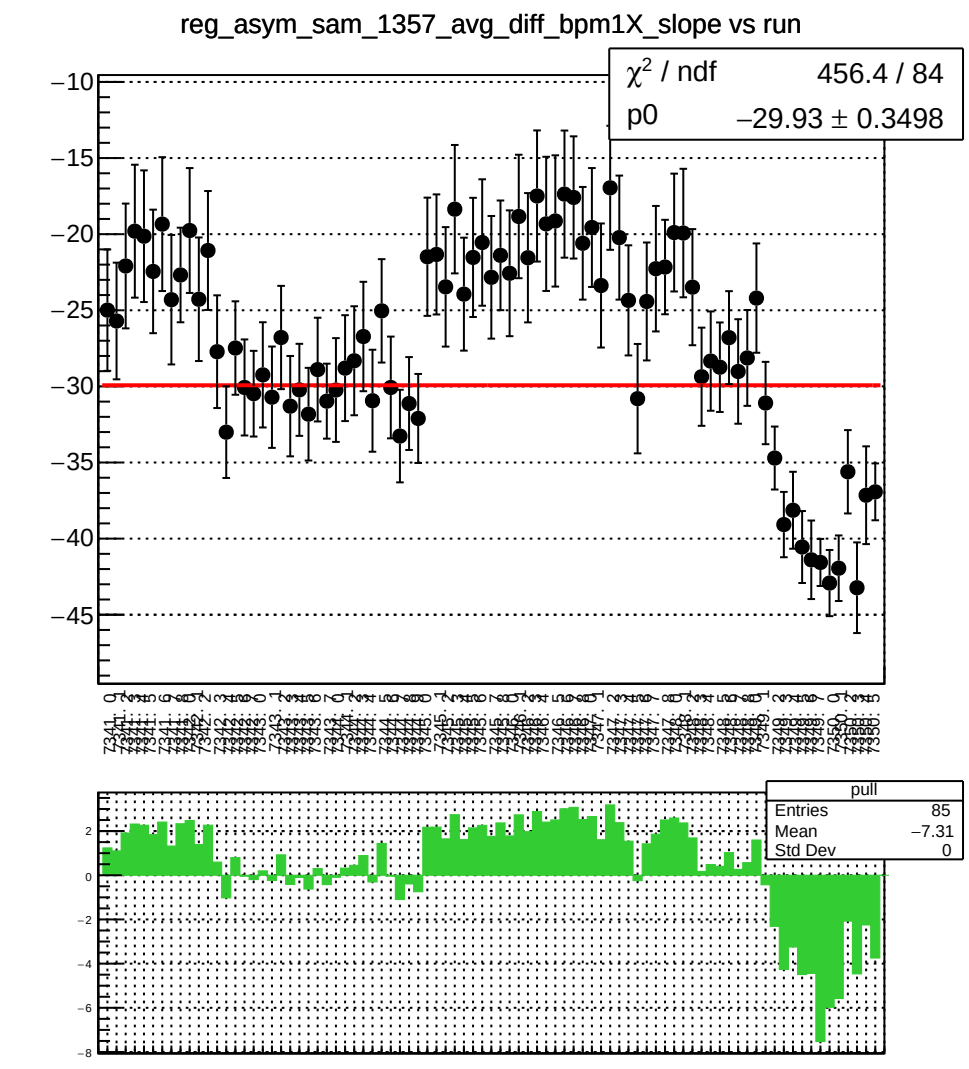

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 829.4 / 84
p0 −2.381 ± 0.1275
pull
Entries 85
Mean −7.615
Std Dev 0

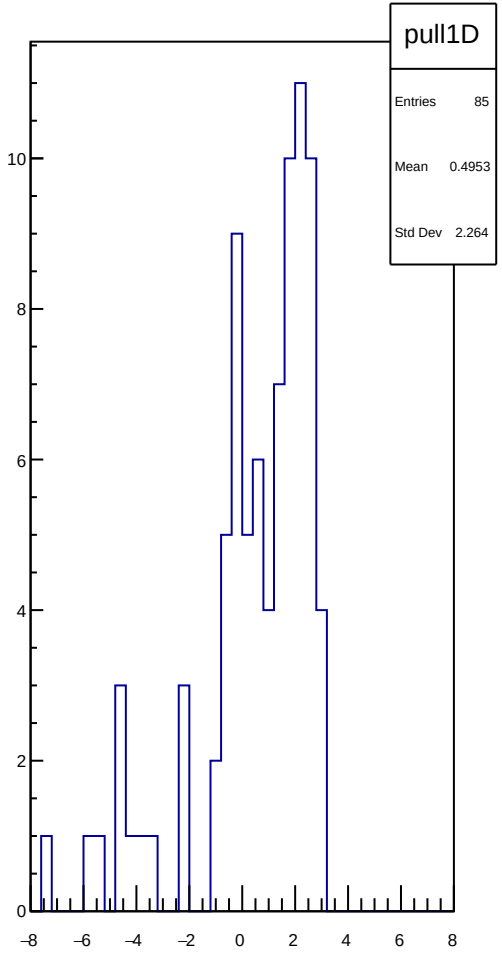

pull1D
Entries 85
Mean −0.9076
Std Dev 2.674

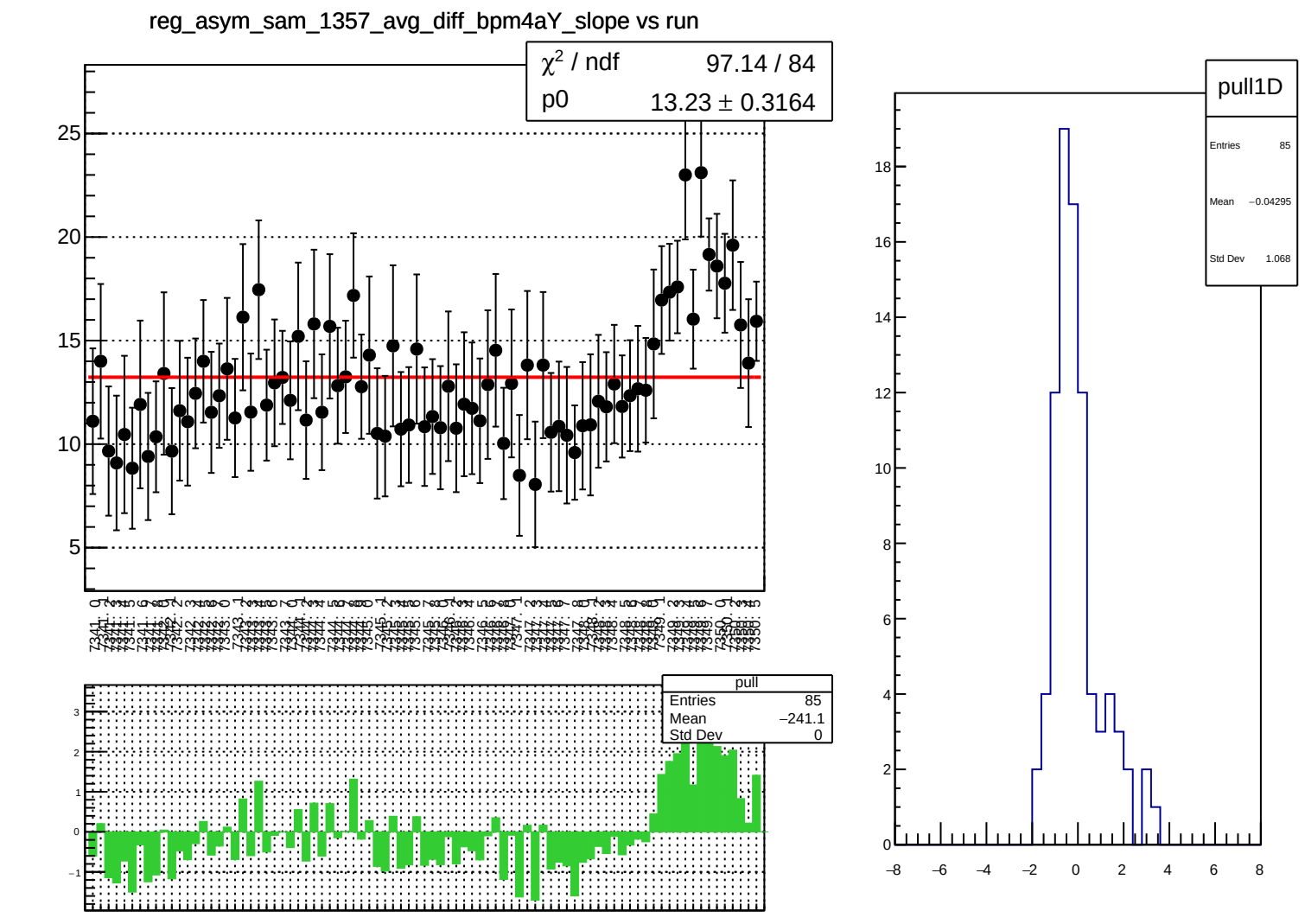

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 129.3 / 84
p0 10.39 ± 0.1274
pull
Entries 85
Mean −108.3
Std Dev 0
pull1D
Entries 85
Mean 0.09463
Std Dev 1.23

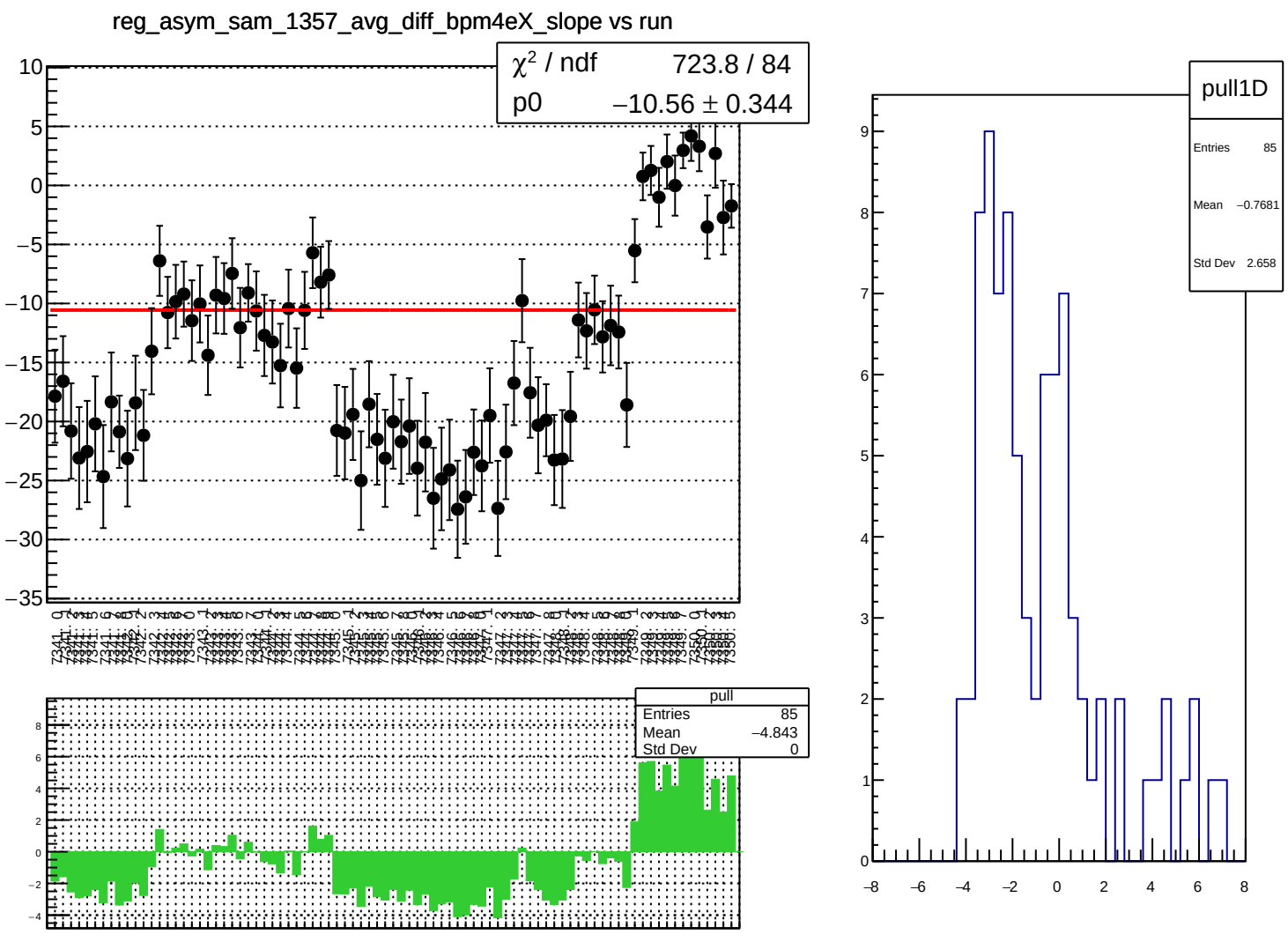

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 29.53 / 84
p0 −0.3334 ± 0.005695
pull
Entries 85
Mean −248.6
Std Dev 0

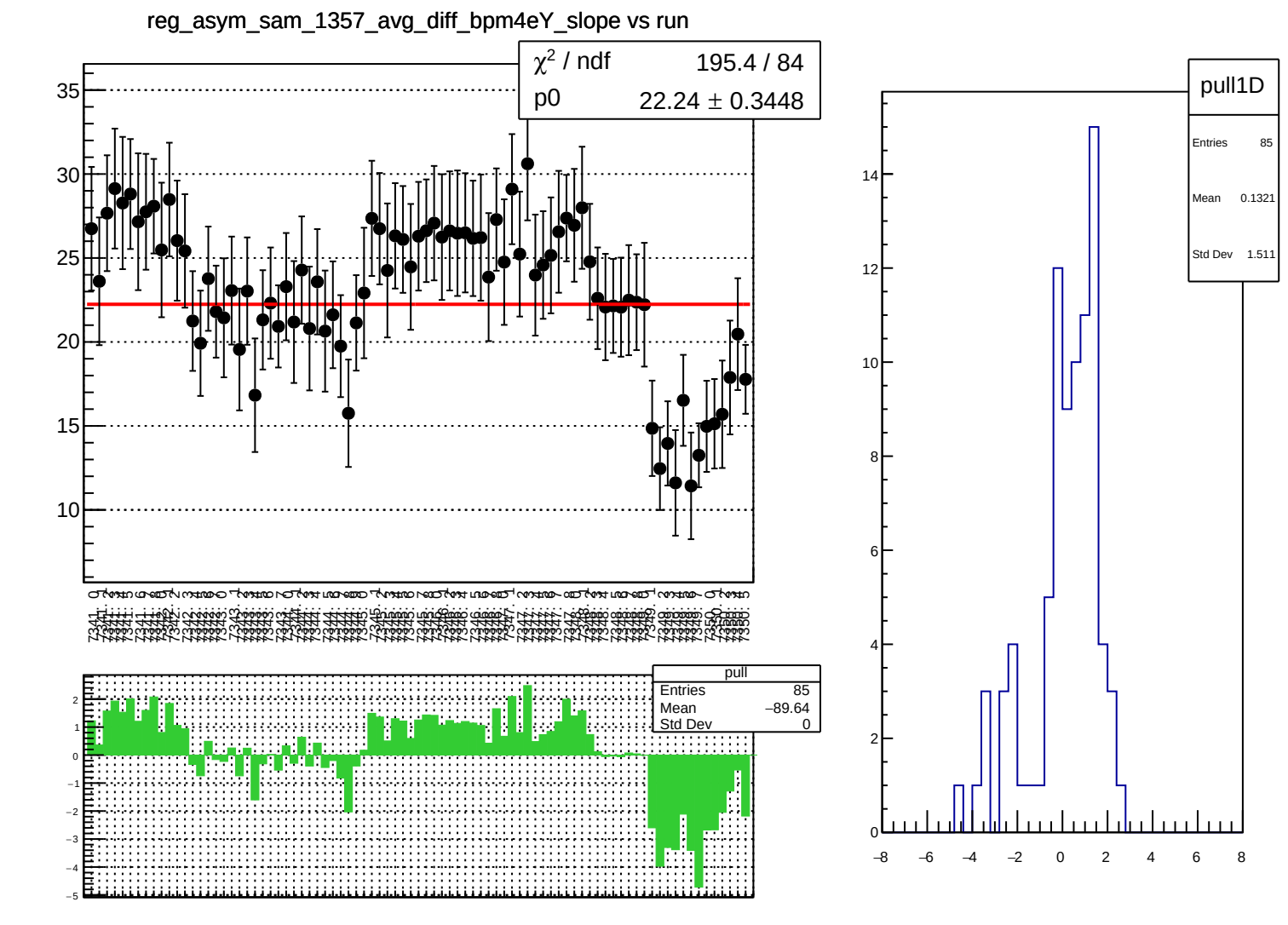

pull1D
Entries 85
Mean 0.007362
Std Dev 0.5893

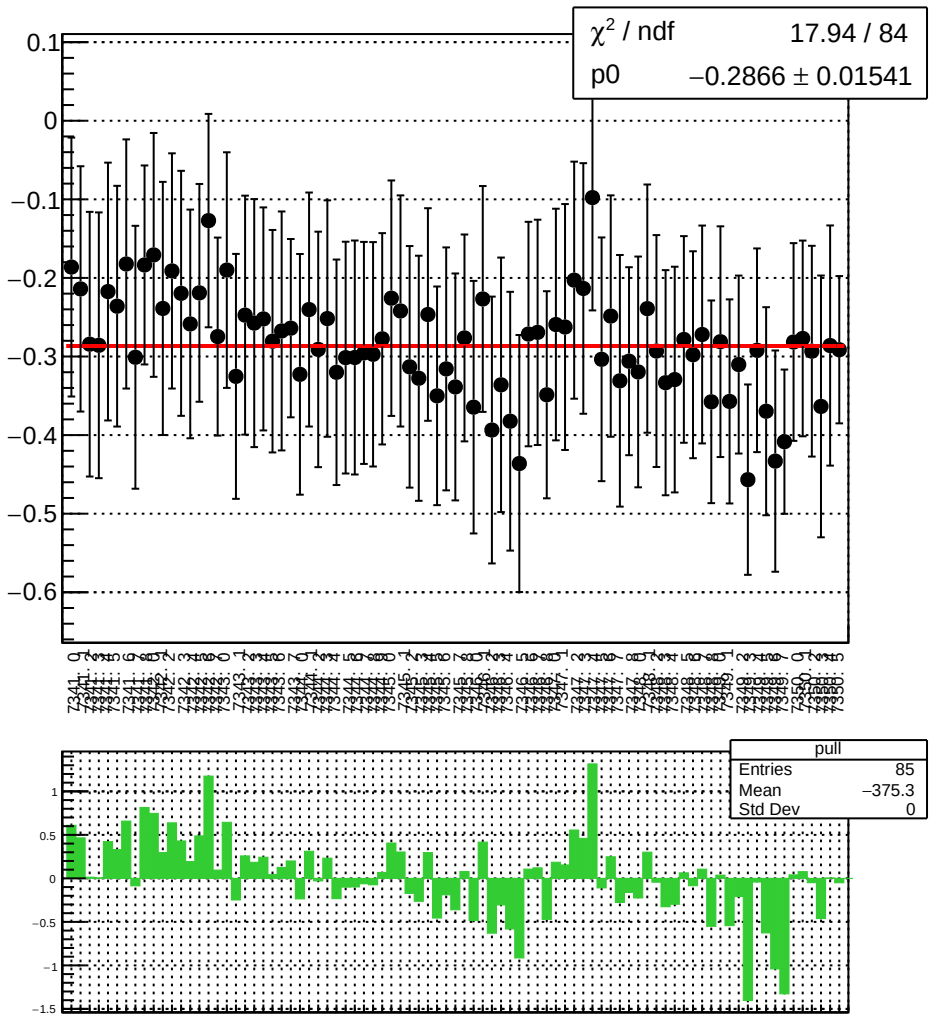

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 456.4 / 84
p0 −29.93 ± 0.3498
pull
Entries 85
Mean −7.31
Std Dev 0

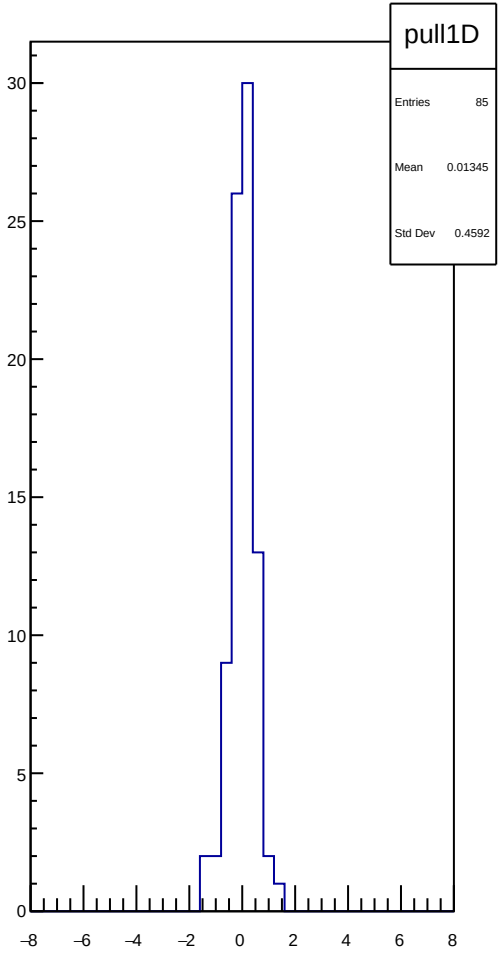

pull1D
Entries 85
Mean 0.4953
Std Dev 2.264

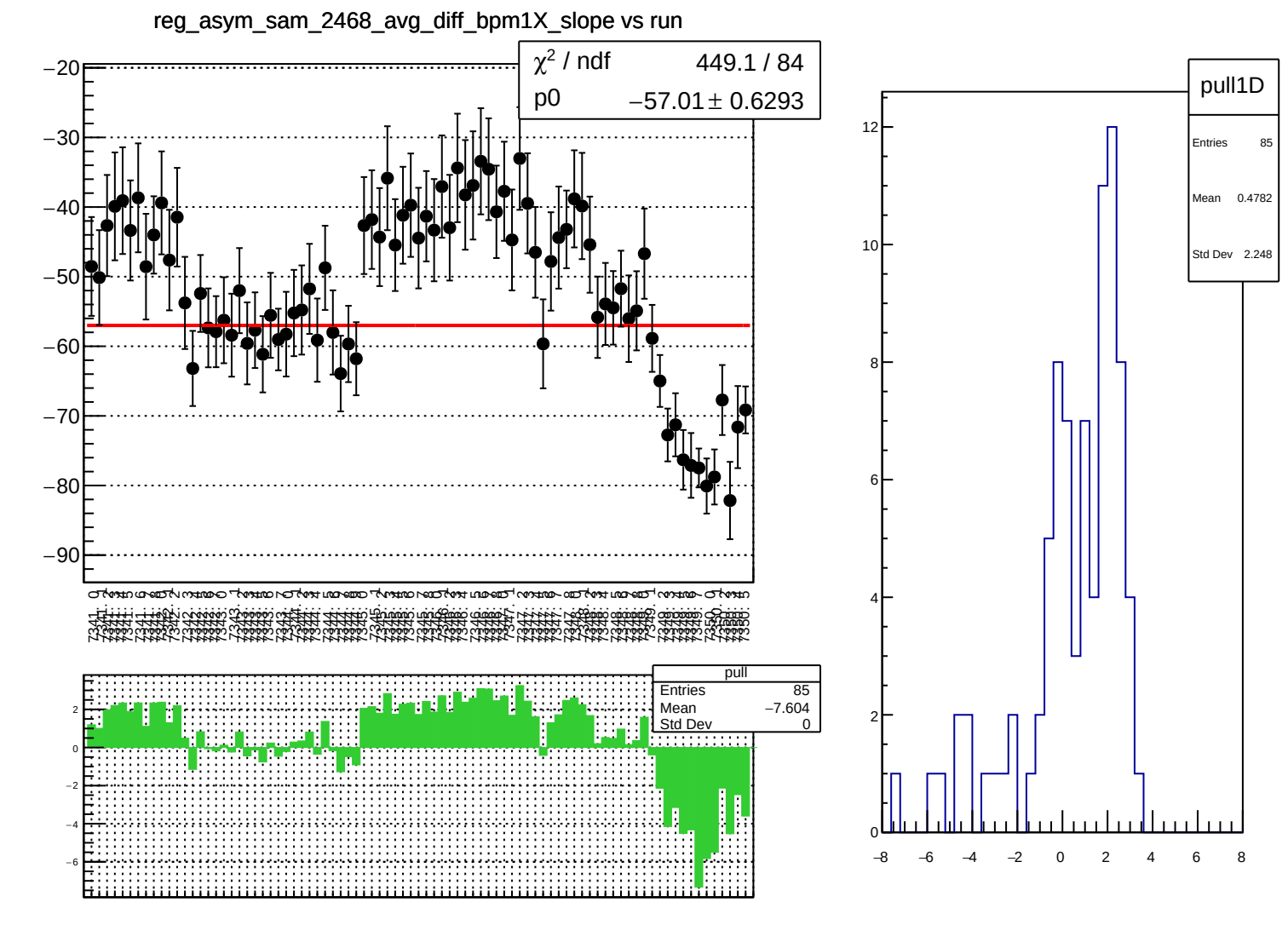

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 97.14 / 84
p0 13.23 ± 0.3164
pull
Entries 85
Mean −241.1
Std Dev 0
pull1D
Entries 85
Mean −0.04295
Std Dev 1.068

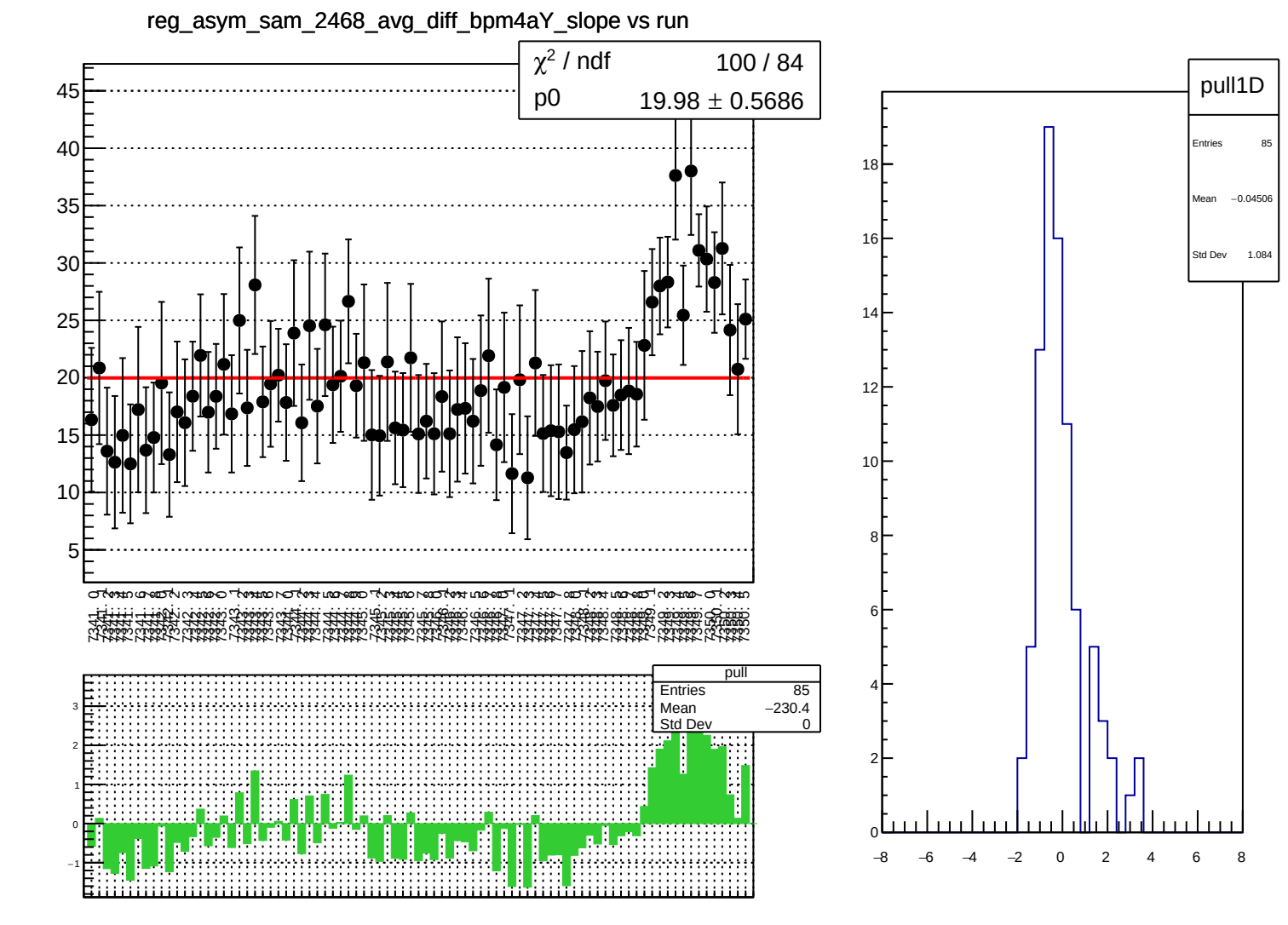

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 723.8 / 84
p0 −10.56 ± 0.344
pull
Entries 85
Mean −4.843
Std Dev 0
pull1D
Entries 85
Mean −0.7681
Std Dev 2.658

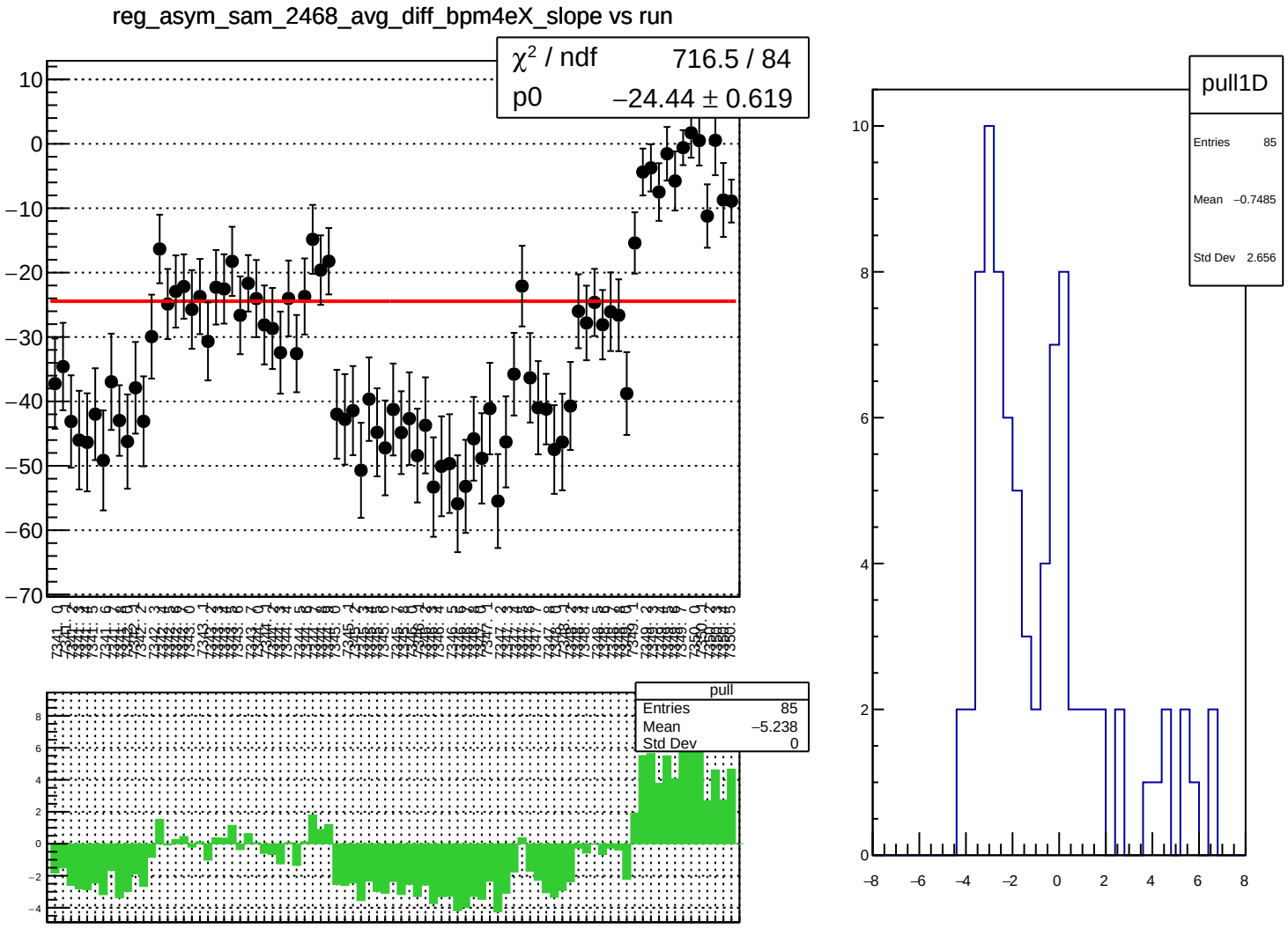

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 195.4 / 84
p0 22.24 ± 0.3448
pull
Entries 85
Mean −89.64
Std Dev 0
pull1D
Entries 85
Mean 0.1321
Std Dev 1.511

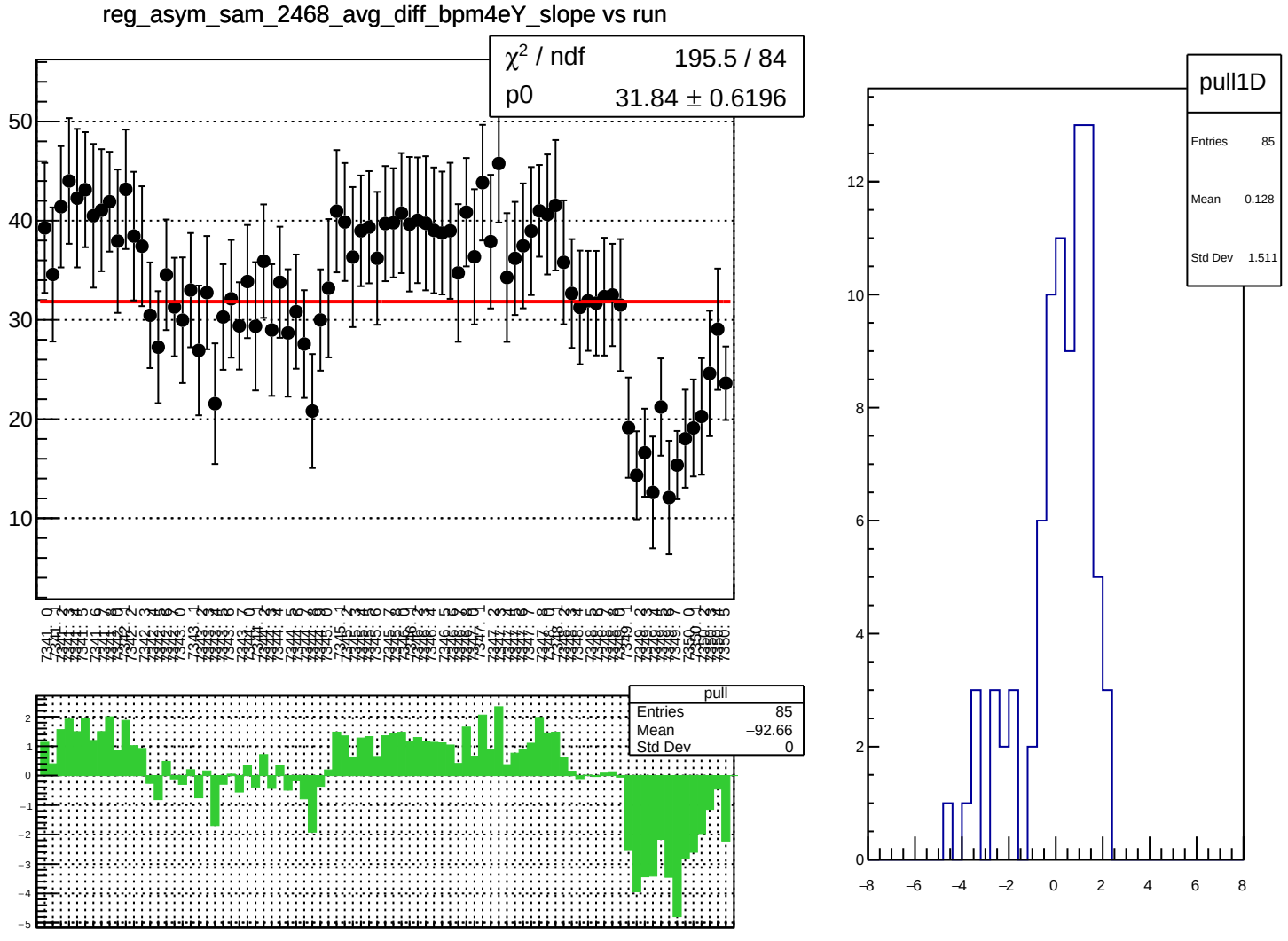

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 17.94 / 84
p0 −0.2866 ± 0.01541
pull
Entries 85
Mean −375.3
Std Dev 0

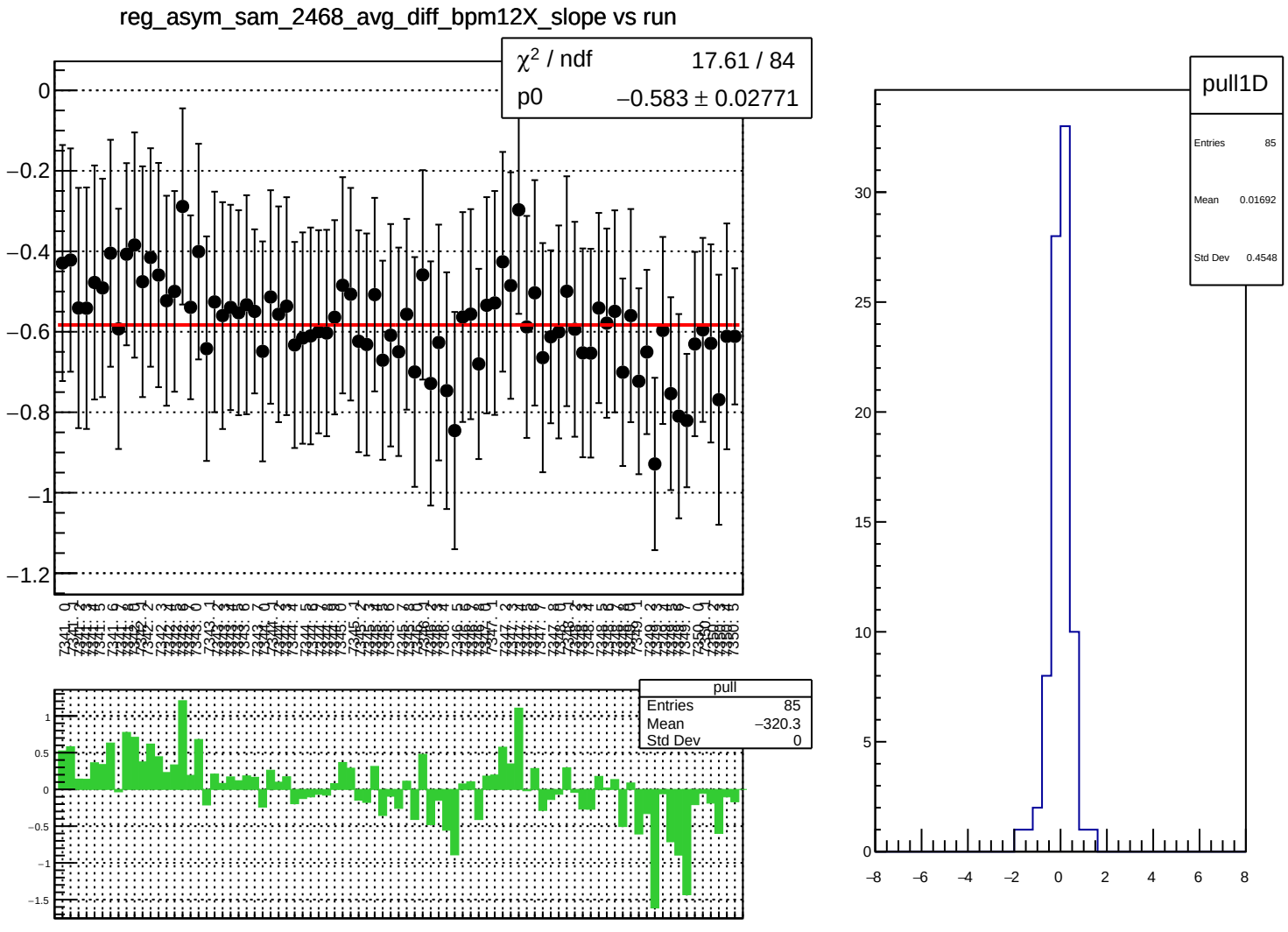

pull1D
Entries 85
Mean 0.01345
Std Dev 0.4592

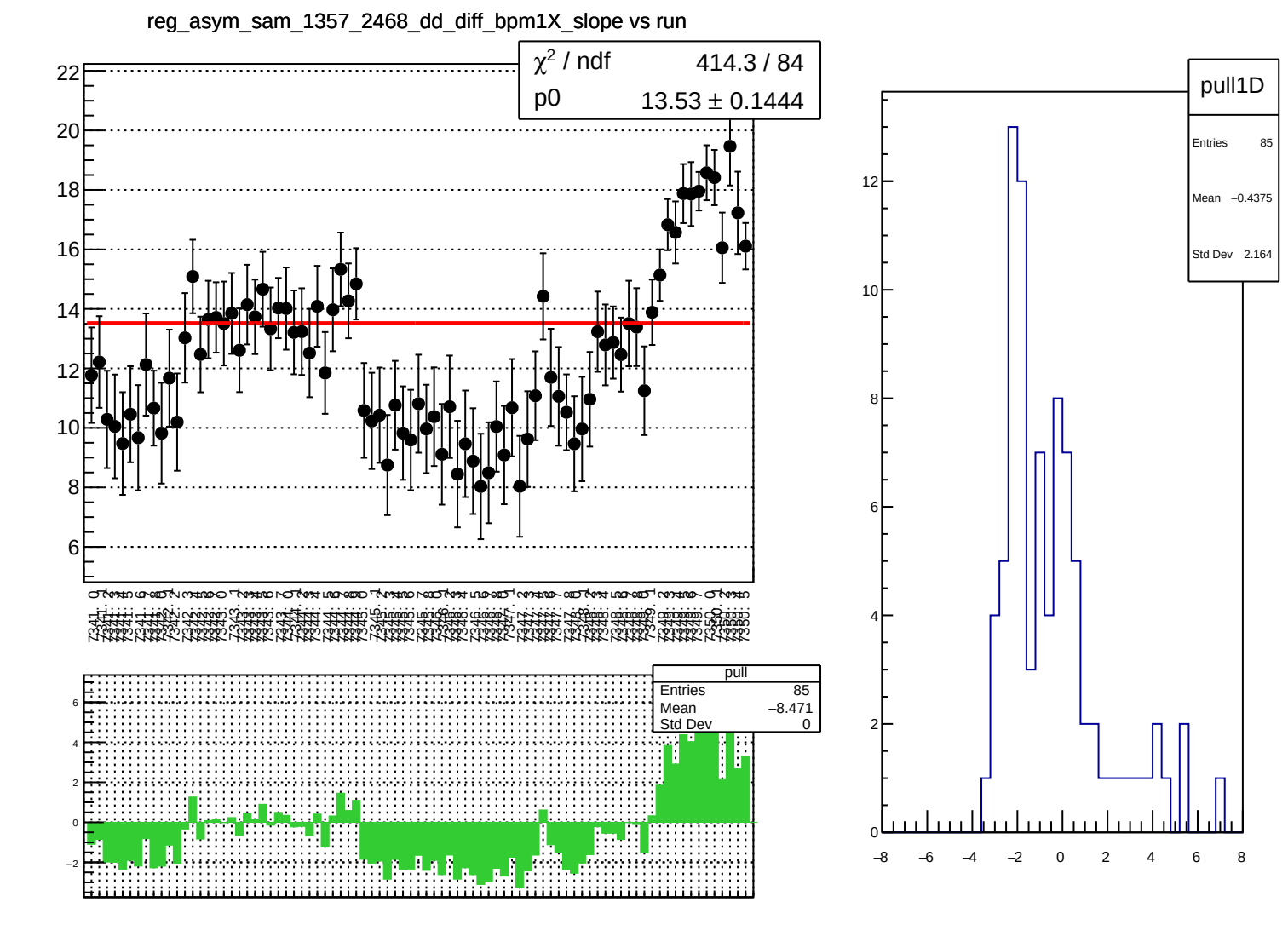

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 449.1 / 84
p0 −57.01 ± 0.6293
pull
Entries 85
Mean −7.604
Std Dev 0
pull1D
Entries 85
Mean 0.4782
Std Dev 2.248

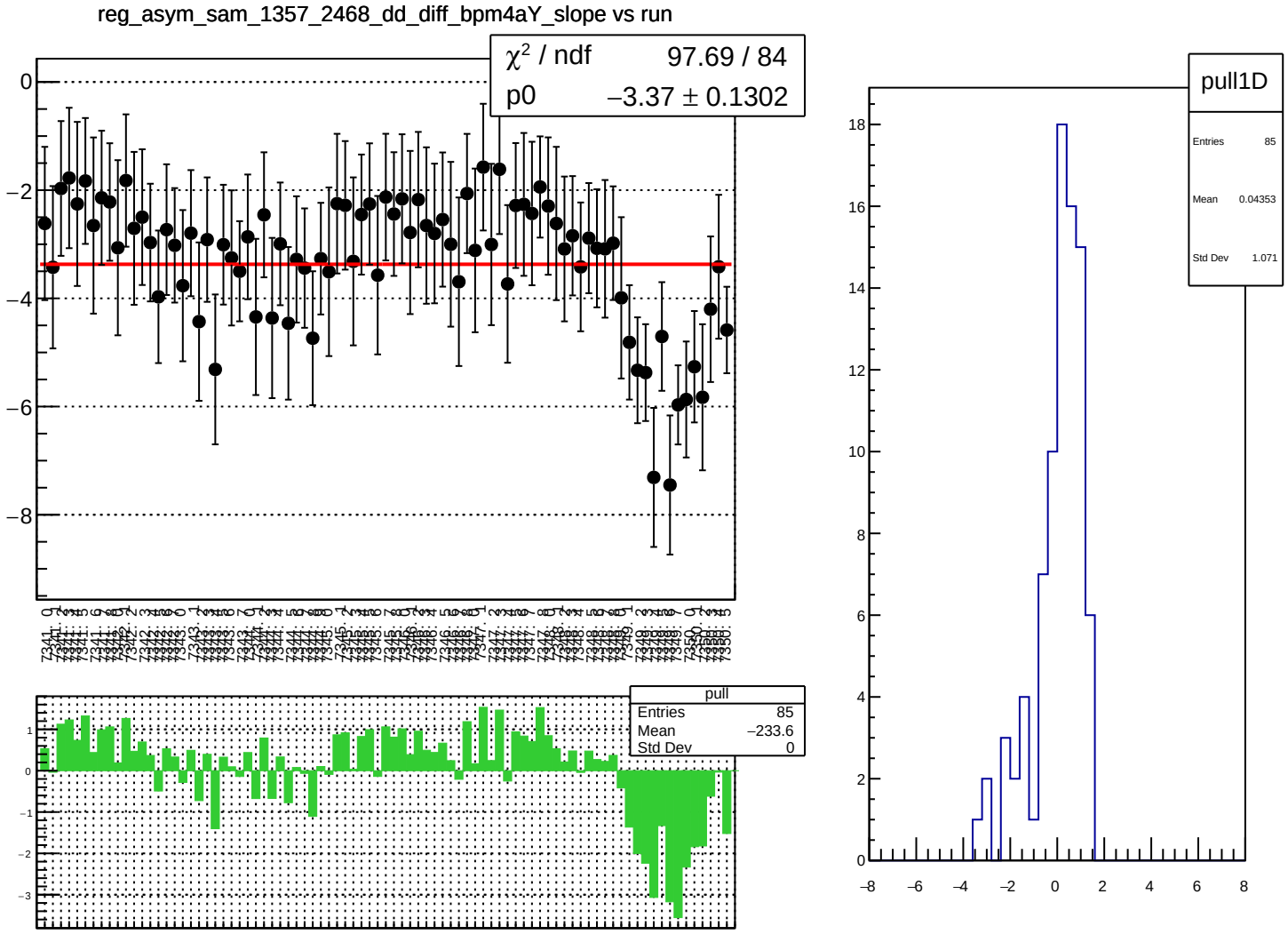

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 100 / 84
p0 19.98 ± 0.5686
pull
Entries 85
Mean −230.4
Std Dev 0
pull1D
Entries 85
Mean −0.04506
Std Dev 1.084

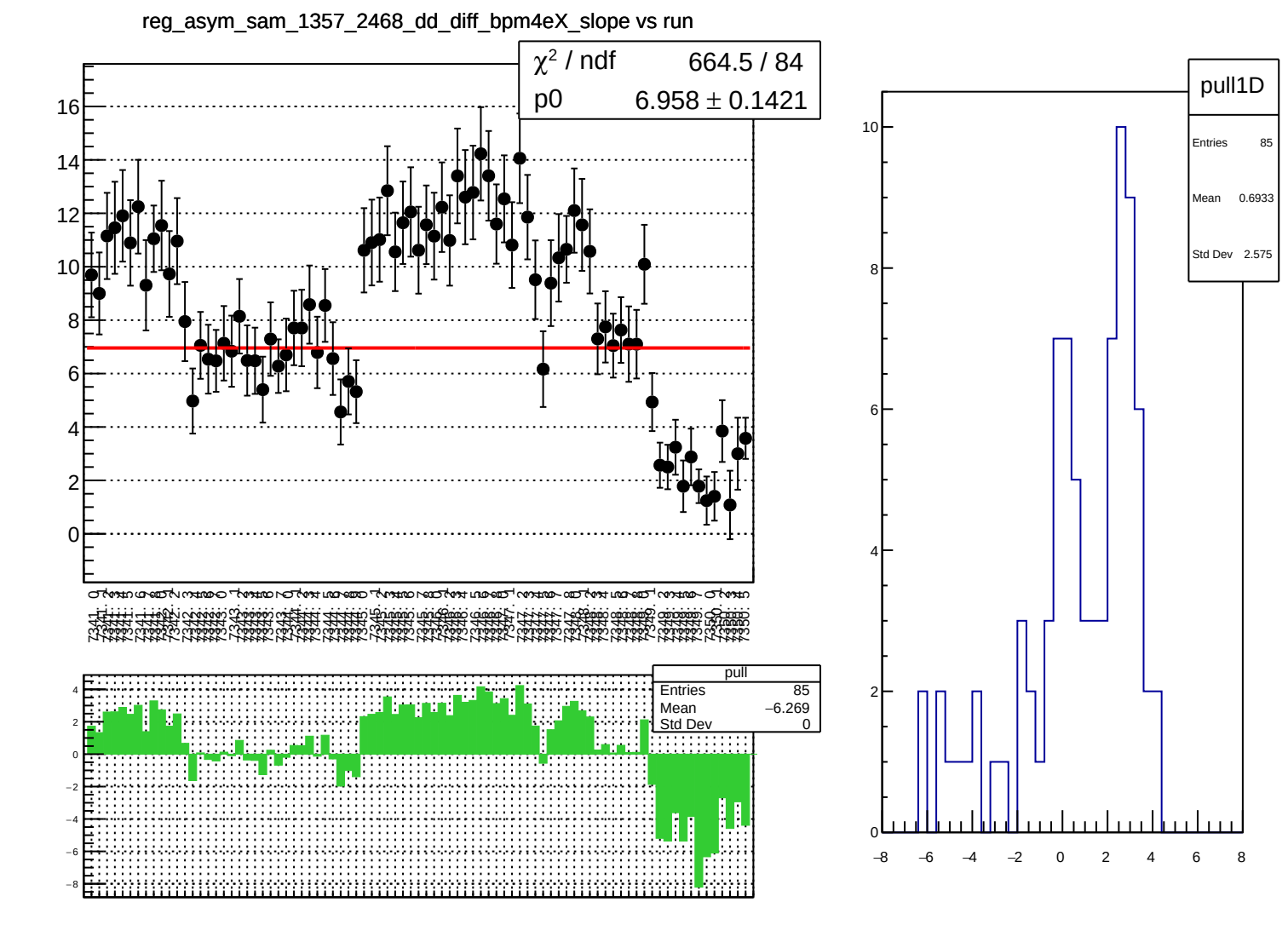

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 716.5 / 84
p0 −24.44 ± 0.619
pull
Entries 85
Mean −5.238
Std Dev 0
pull1D
Entries 85
Mean −0.7485
Std Dev 2.656

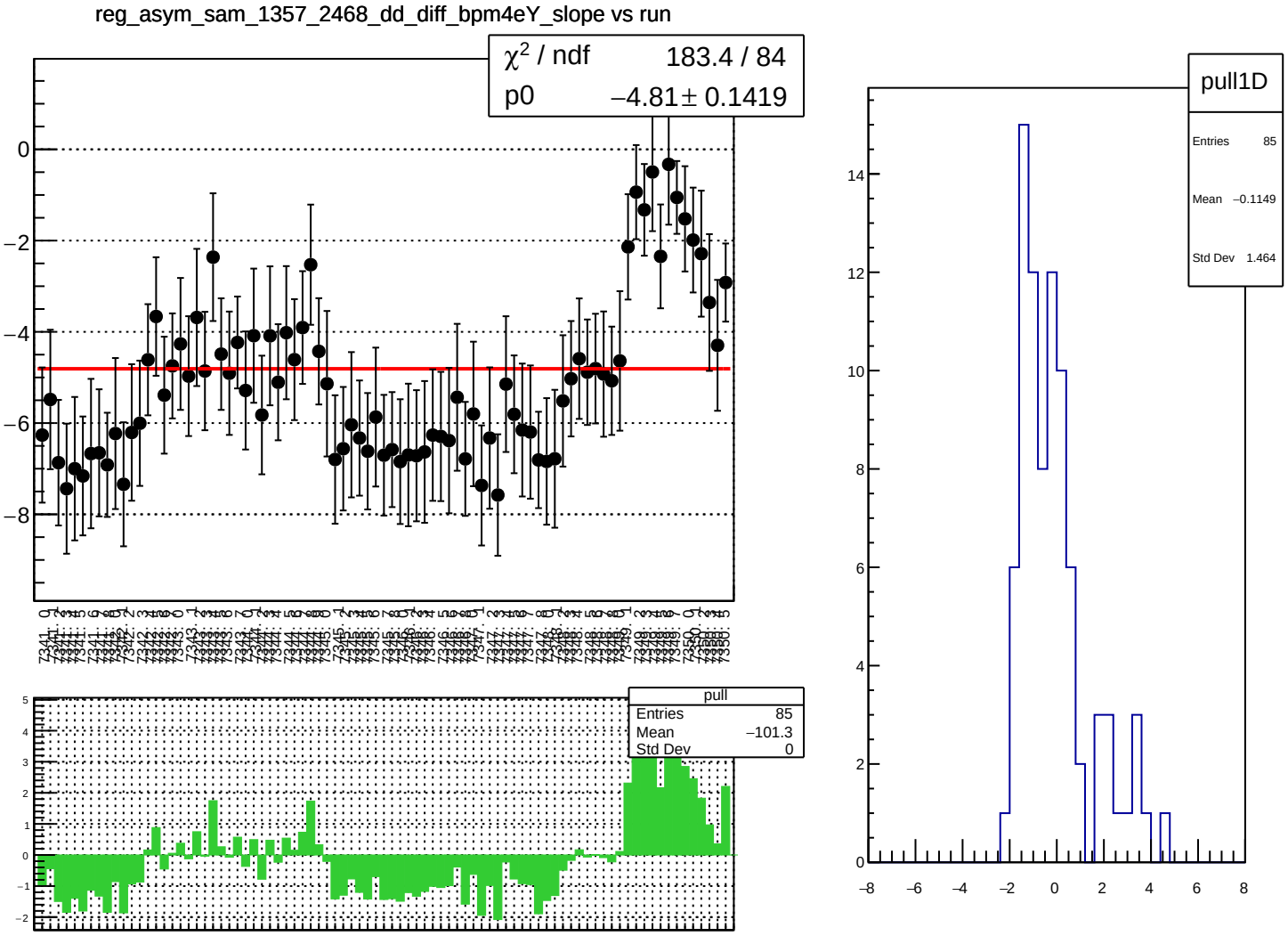

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 195.5 / 84
p0 31.84 ± 0.6196
pull
Entries 85
Mean −92.66
Std Dev 0
pull1D
Entries 85
Mean 0.128
Std Dev 1.511

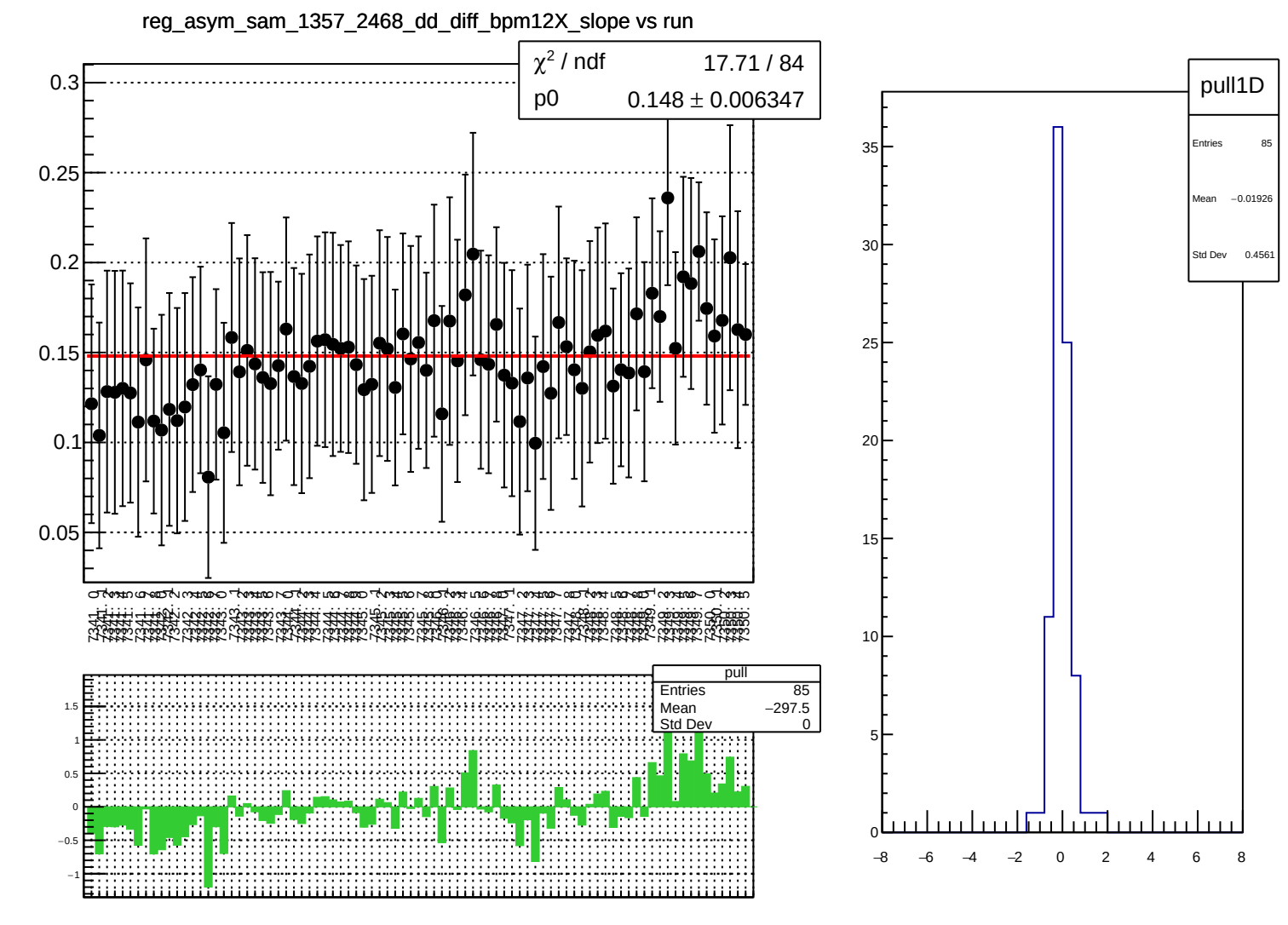

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 17.61 / 84
p0 −0.583 ± 0.02771
pull
Entries 85
Mean −320.3
Std Dev 0
pull1D
Entries 85
Mean 0.01692
Std Dev 0.4548

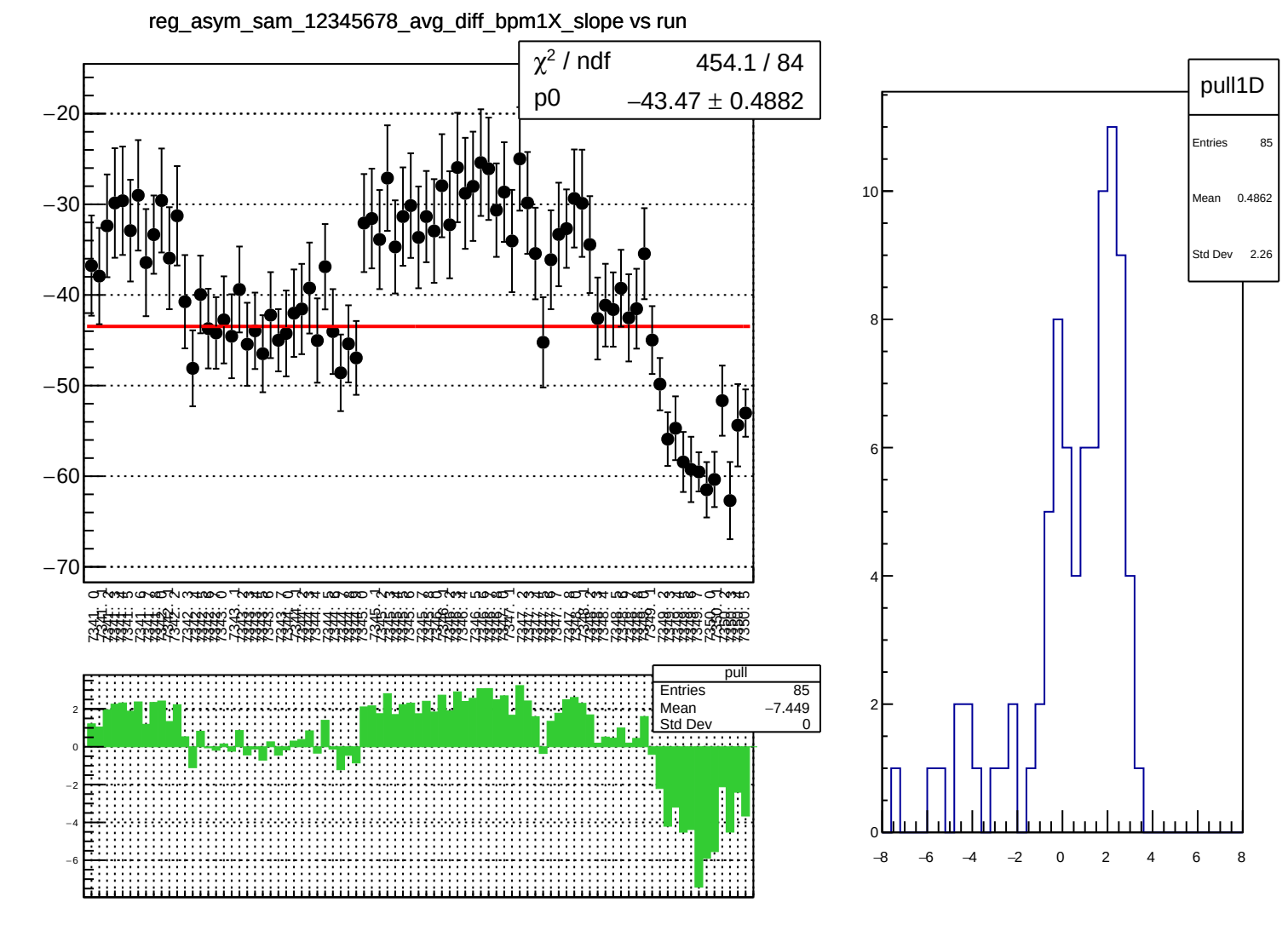

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 414.3 / 84
p0 13.53 ± 0.1444
pull
Entries 85
Mean −8.471
Std Dev 0
pull1D
Entries 85
Mean −0.4375
Std Dev 2.164

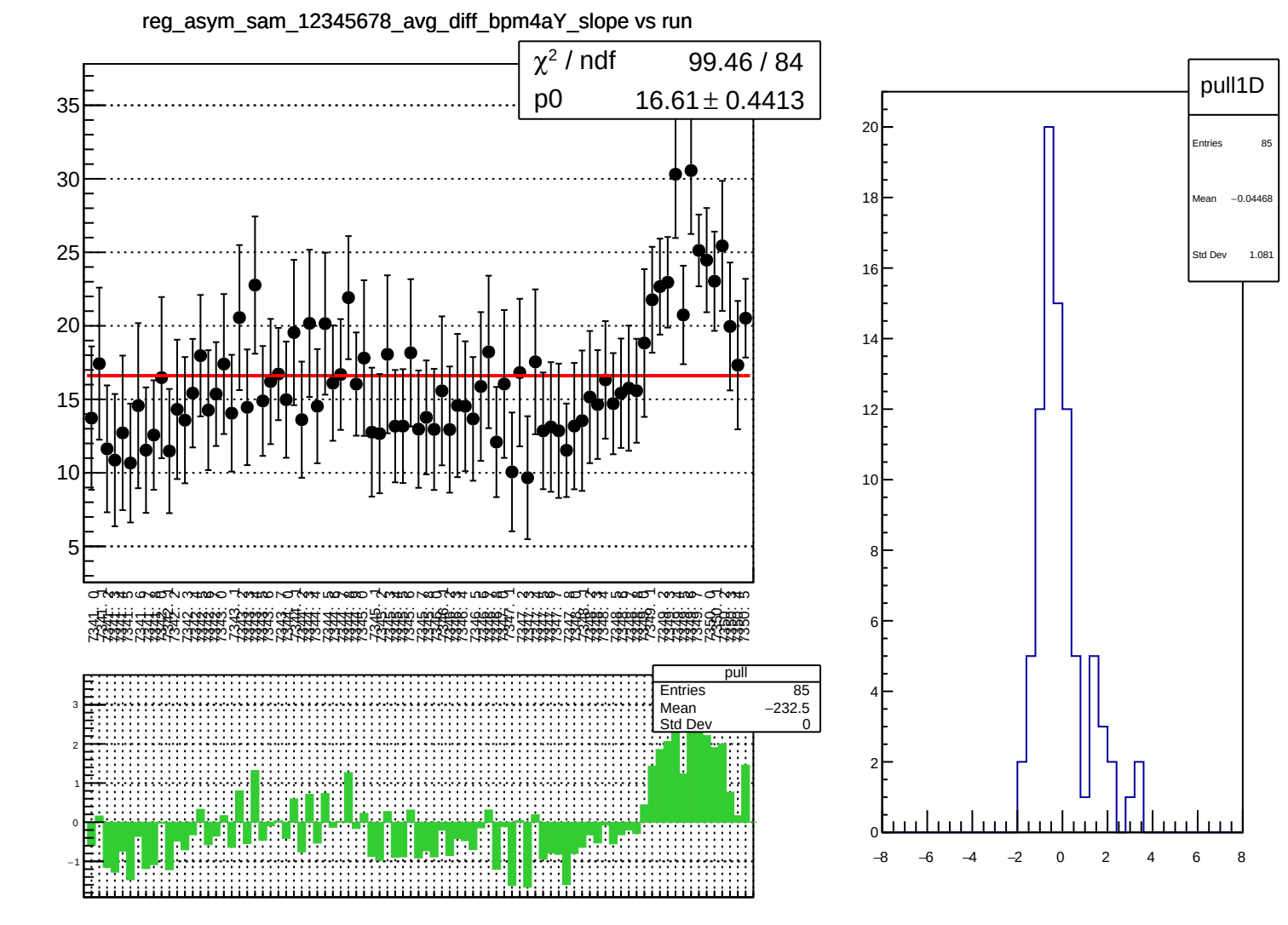

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 97.69 / 84
p0 −3.37 ± 0.1302
pull
Entries 85
Mean −233.6
Std Dev 0
pull1D
Entries 85
Mean 0.04353
Std Dev 1.071

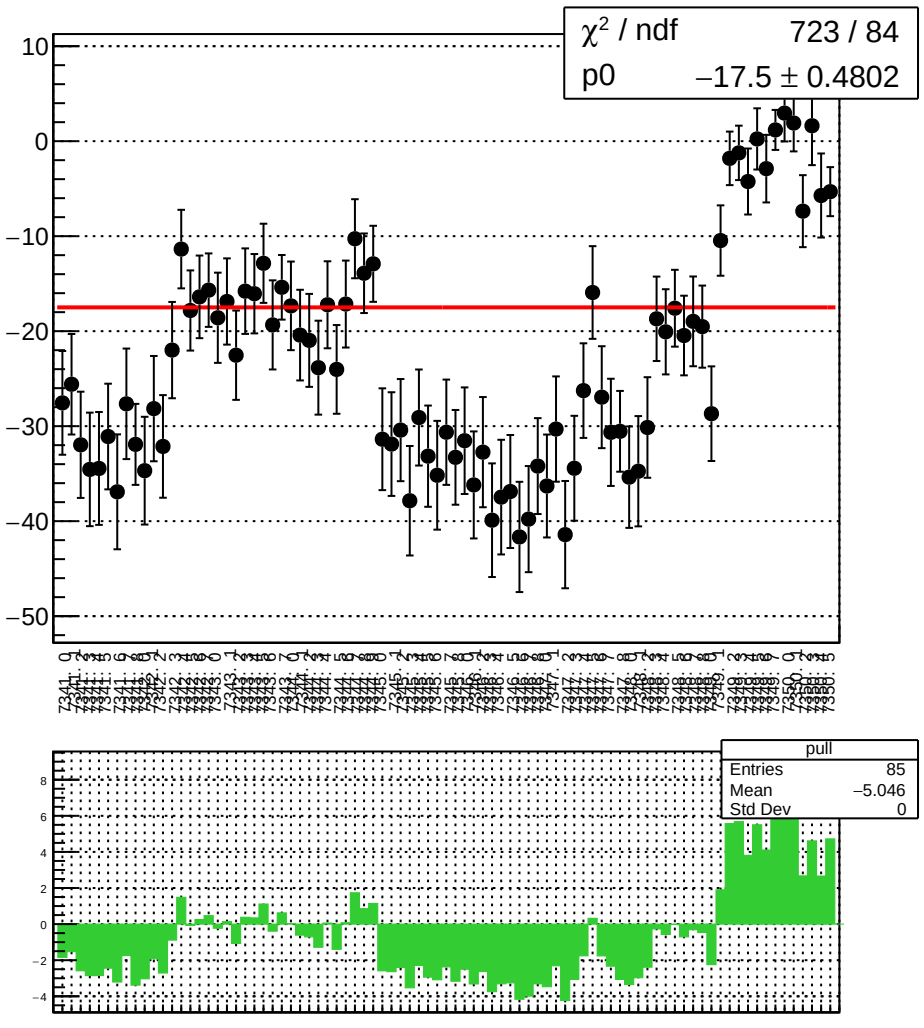

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 664.5 / 84
p0 6.958 ± 0.1421
pull
Entries 85
Mean −6.269
Std Dev 0
pull1D
Entries 85
Mean 0.6933
Std Dev 2.575

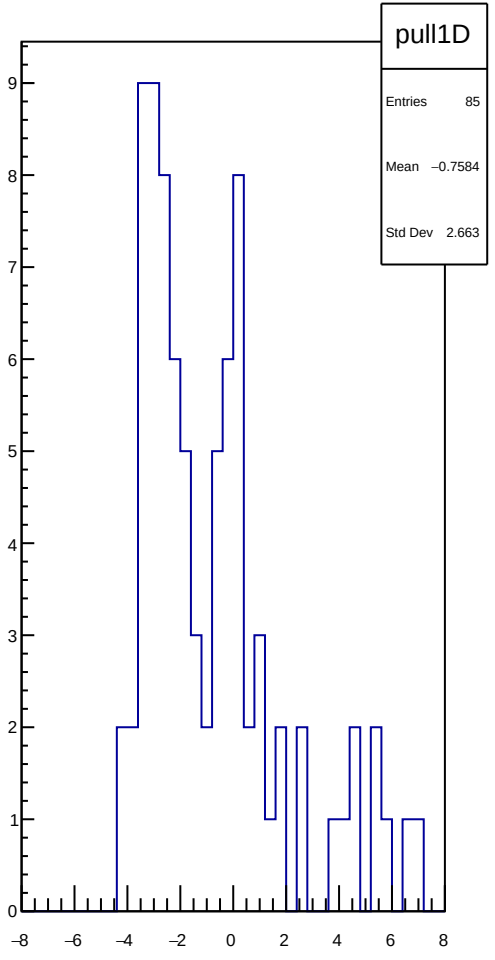

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 183.4 / 84
p0 −4.81 ± 0.1419
pull
Entries 85
Mean −101.3
Std Dev 0
pull1D
Entries 85
Mean −0.1149
Std Dev 1.464

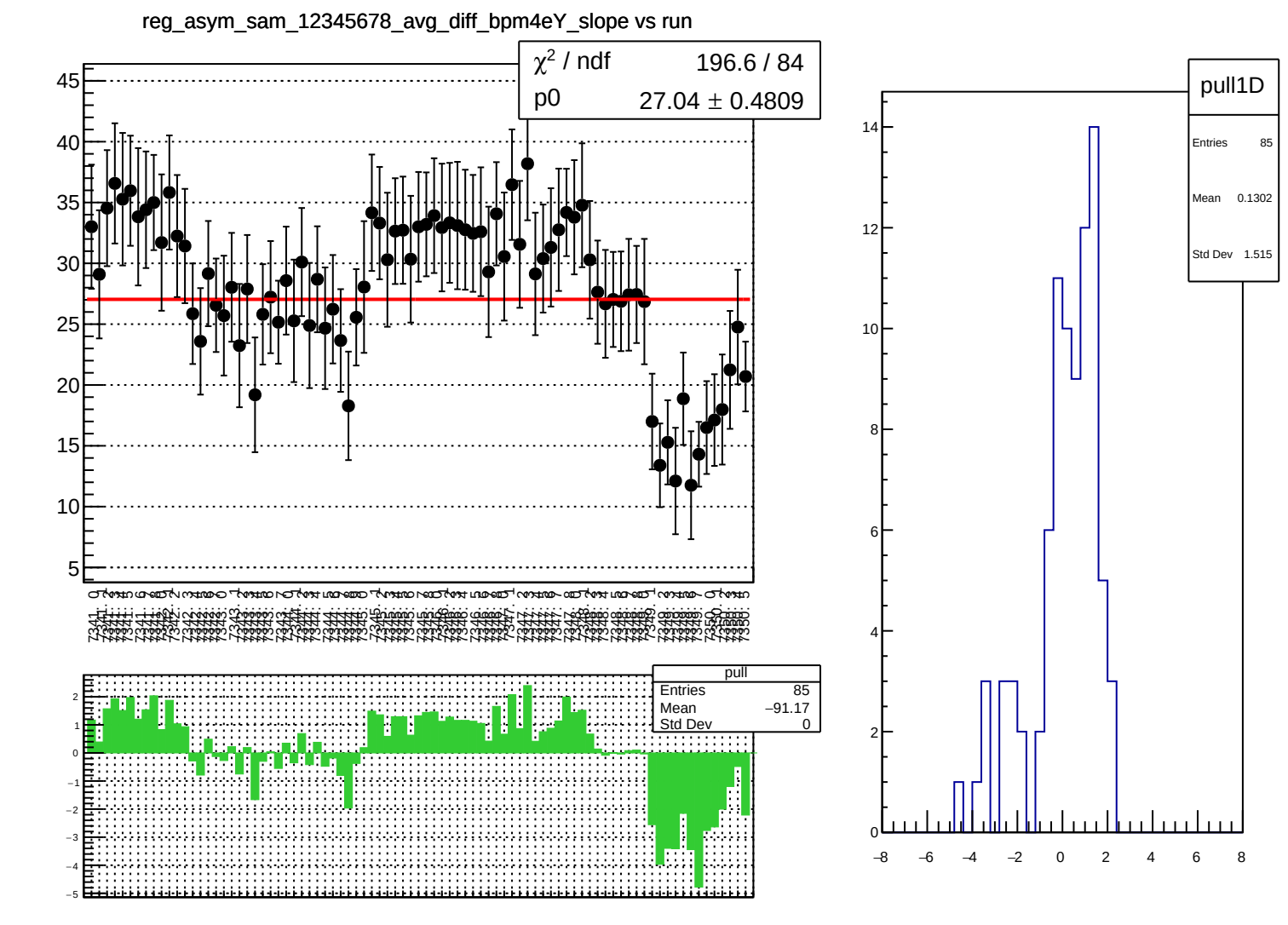

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 17.71 / 84
p0 0.148 ± 0.006347
pull
Entries 85
Mean −297.5
Std Dev 0
pull1D
Entries 85
Mean −0.01926
Std Dev 0.4561

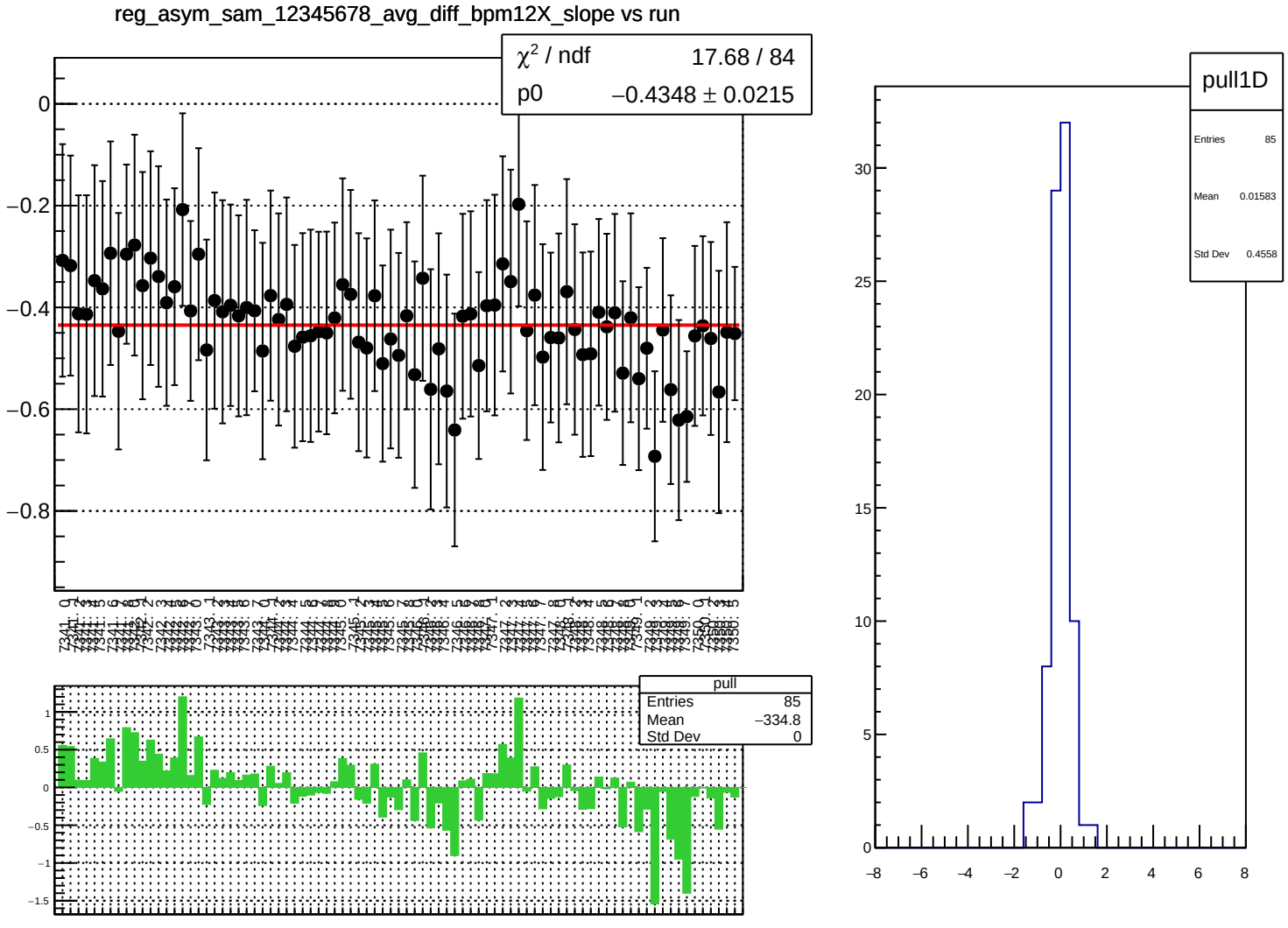

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 454.1 / 84
p0 −43.47 ± 0.4882
pull
Entries 85
Mean −7.449
Std Dev 0
pull1D
Entries 85
Mean 0.4862
Std Dev 2.26

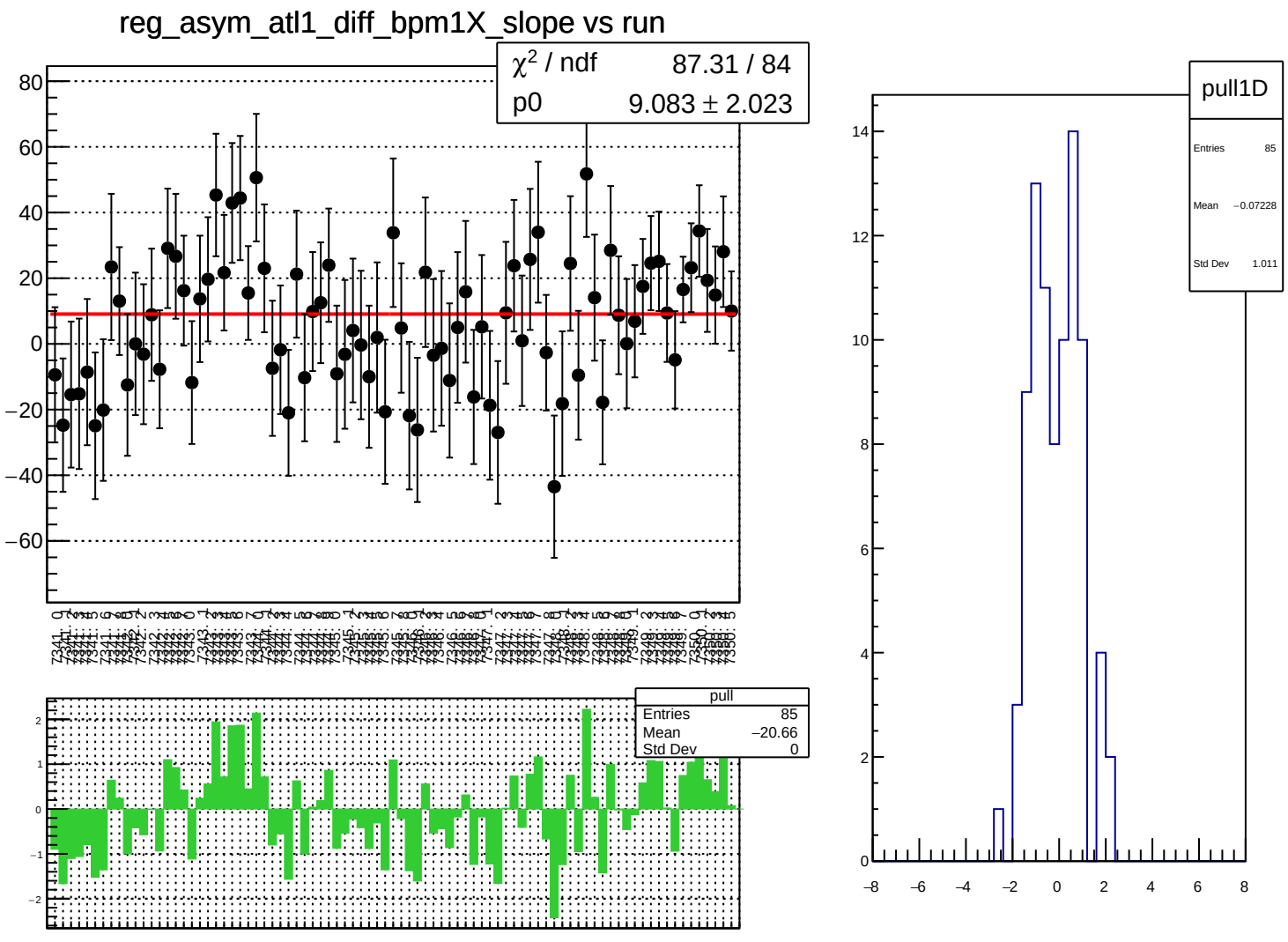

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 99.46 / 84
p0 16.61 ± 0.4413
pull
Entries 85
Mean −232.5
Std Dev 0
pull1D
Entries 85
Mean −0.04468
Std Dev 1.081

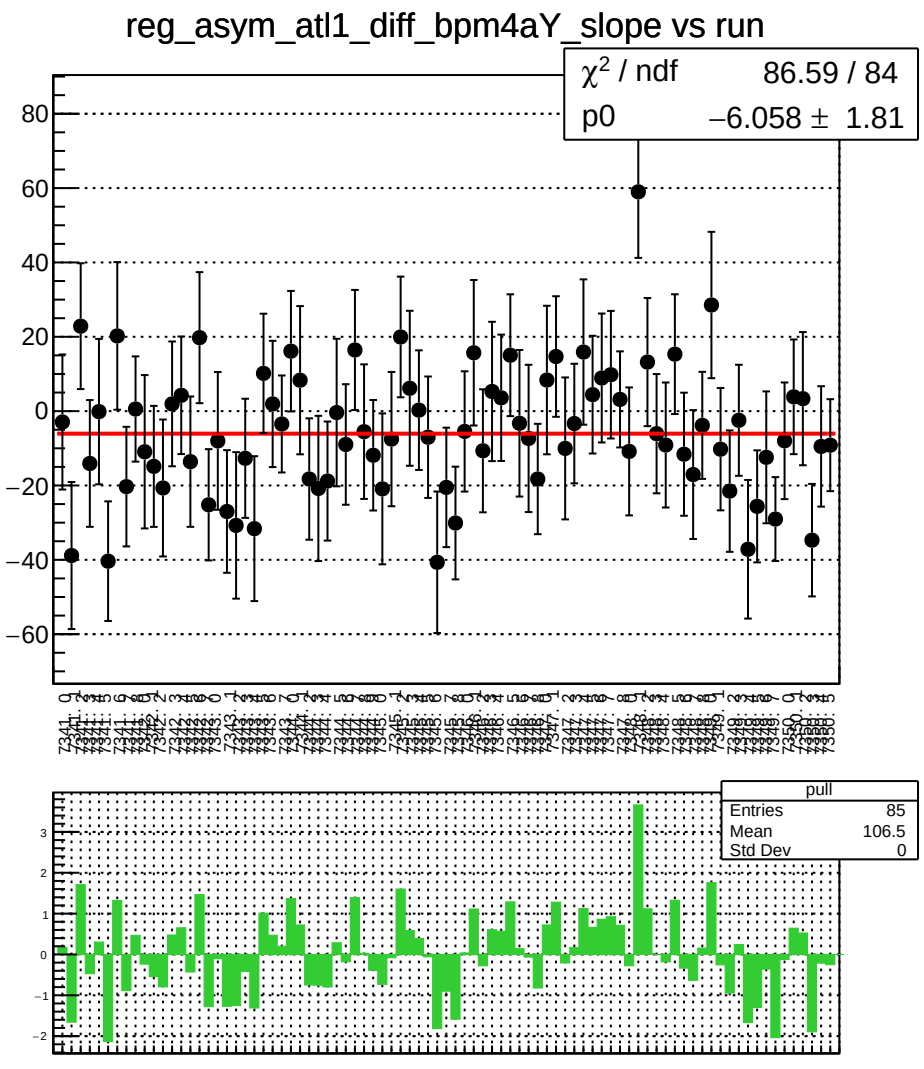

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 723 / 84
p0 −17.5 ± 0.4802
pull
Entries 85
Mean −5.046
Std Dev 0

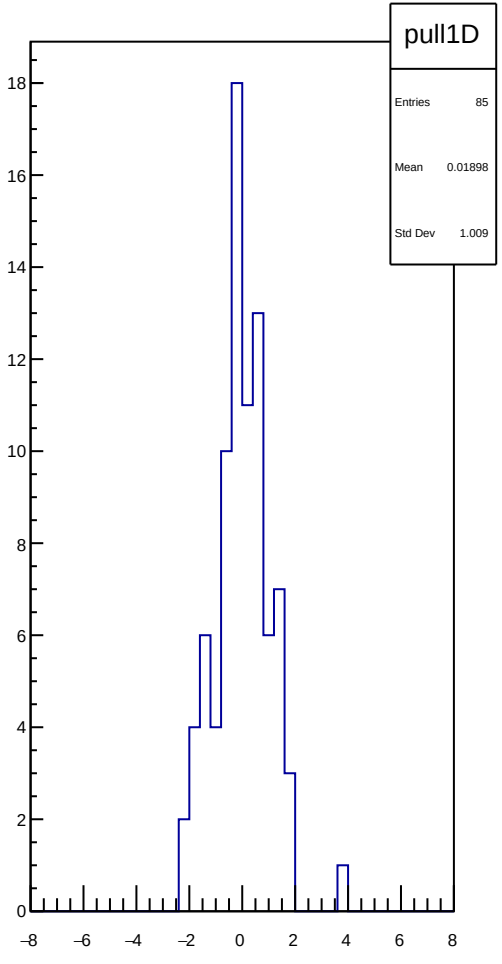

pull1D
Entries 85
Mean −0.7584
Std Dev 2.663

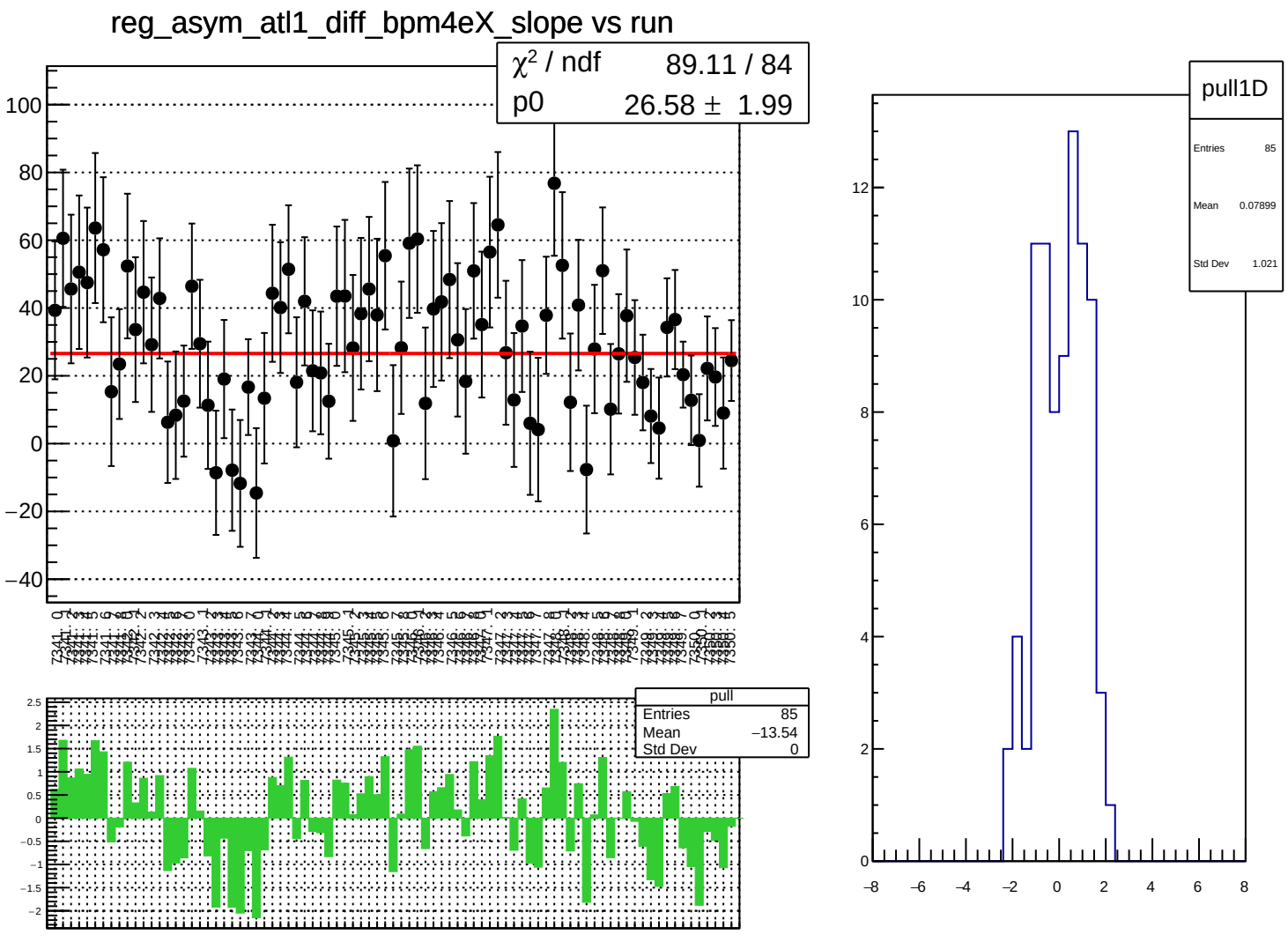

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 196.6 / 84
p0 27.04 ± 0.4809
pull
Entries 85
Mean −91.17
Std Dev 0
pull1D
Entries 85
Mean 0.1302
Std Dev 1.515

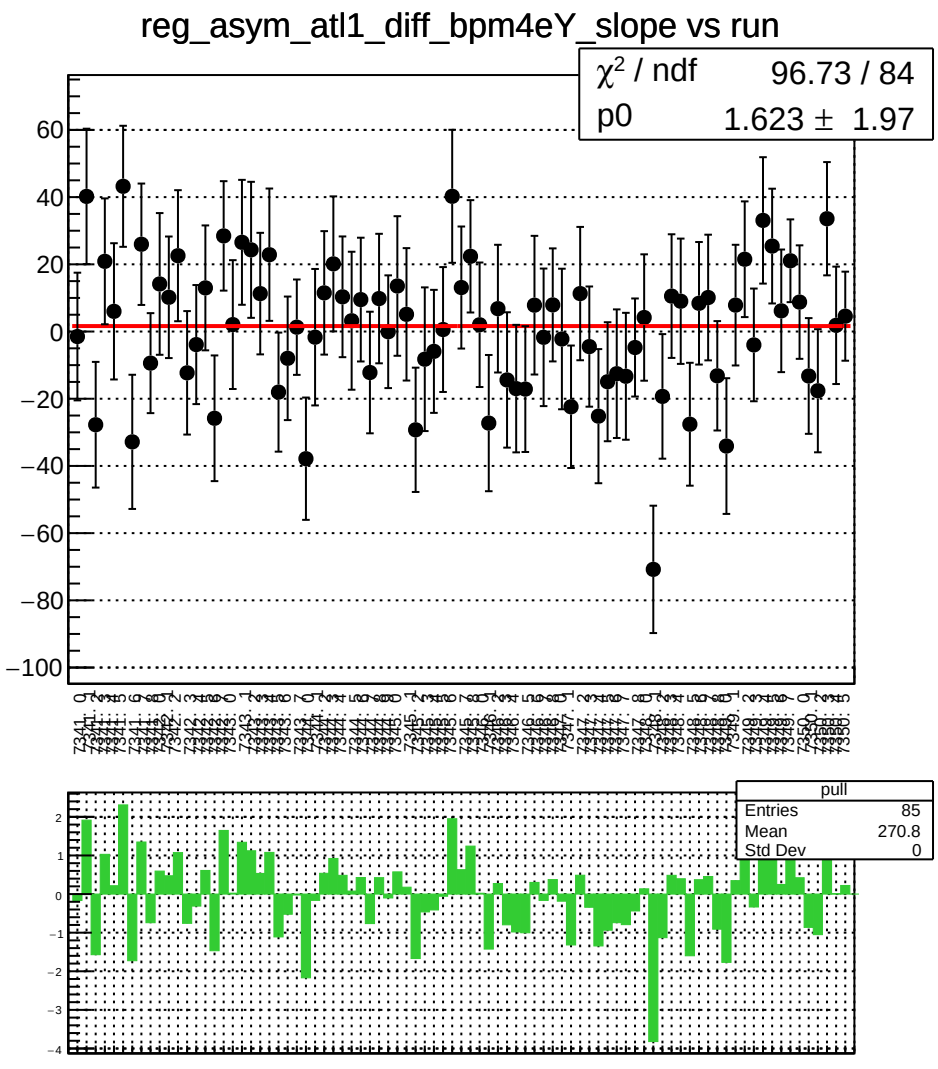

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 17.68 / 84
p0 −0.4348 ± 0.0215
pull
Entries 85
Mean −334.8
Std Dev 0
pull1D
Entries 85
Mean 0.01583
Std Dev 0.4558

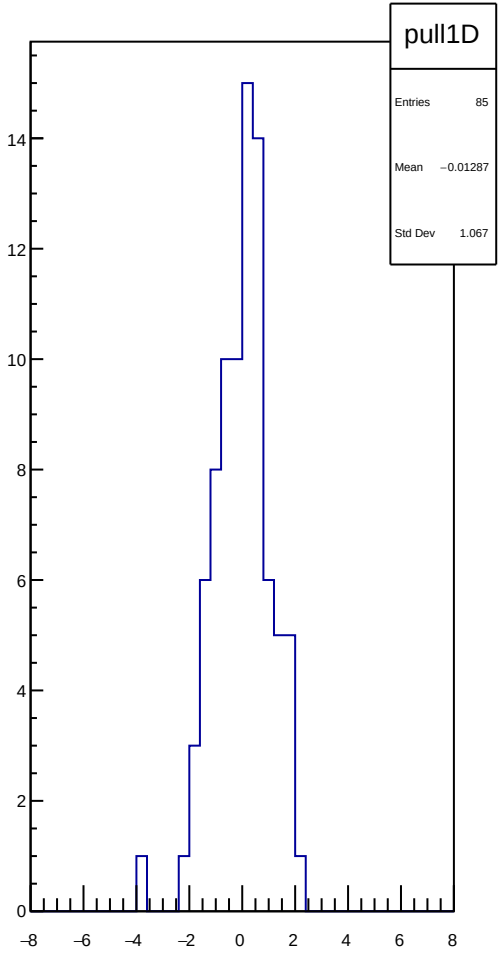

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 87.31 / 84
p0 9.083 ± 2.023
pull
Entries 85
Mean −20.66
Std Dev 0
pull1D
Entries 85
Mean −0.07228
Std Dev 1.011

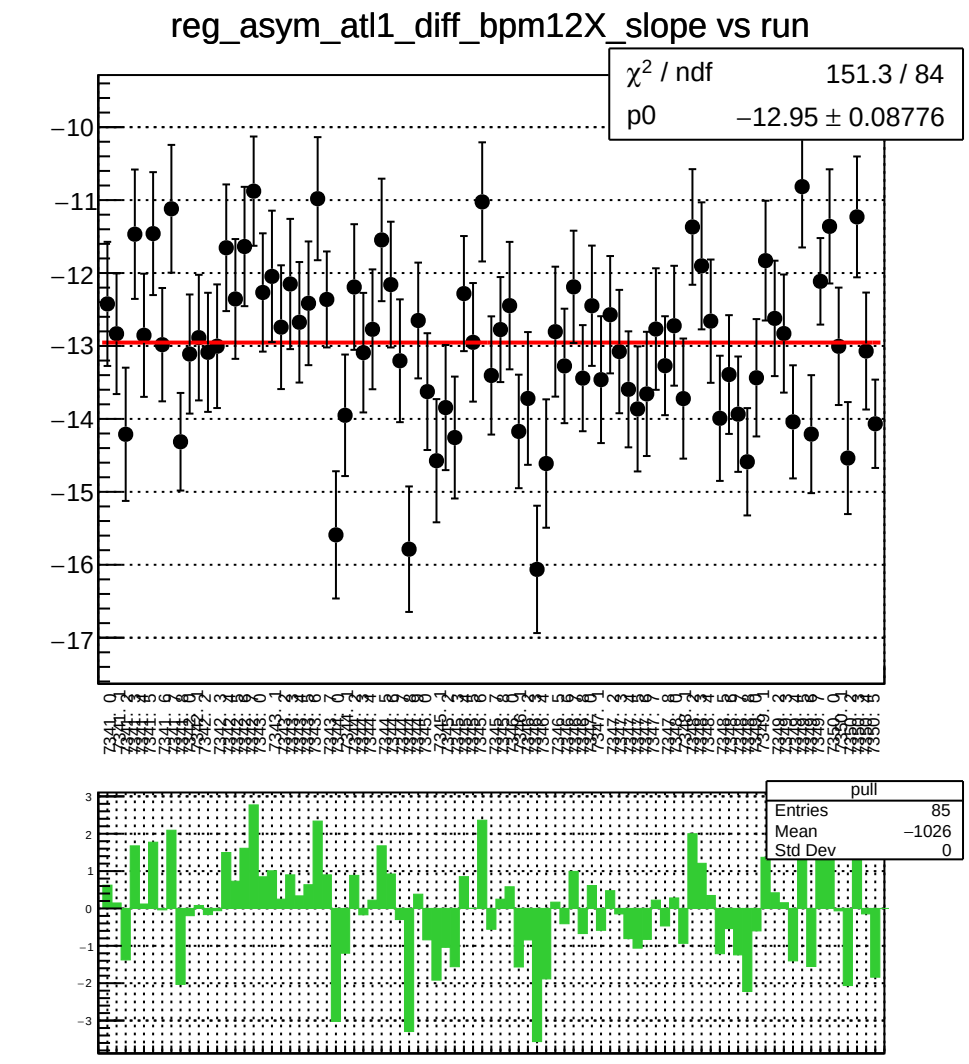

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 86.59 / 84
p0 −6.058 ± 1.81
pull
Entries 85
Mean 106.5
Std Dev 0

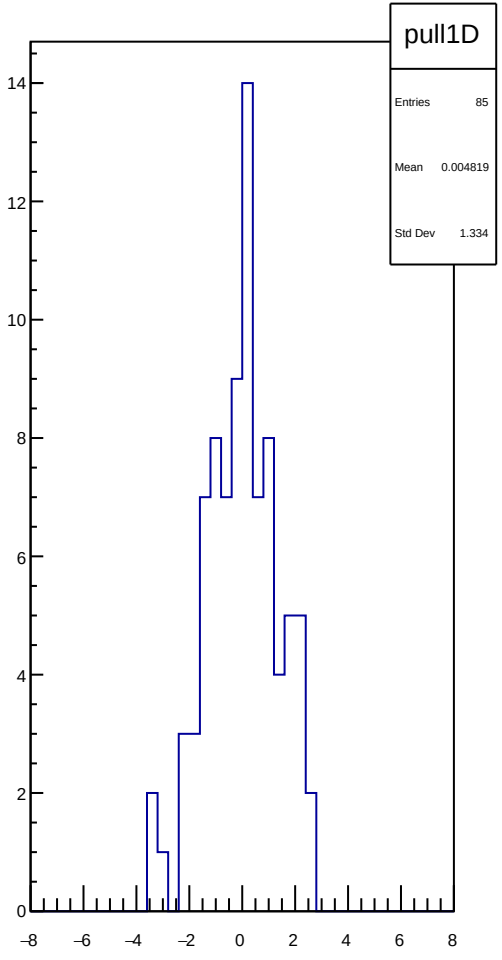

pull1D
Entries 85
Mean 0.01898
Std Dev 1.009

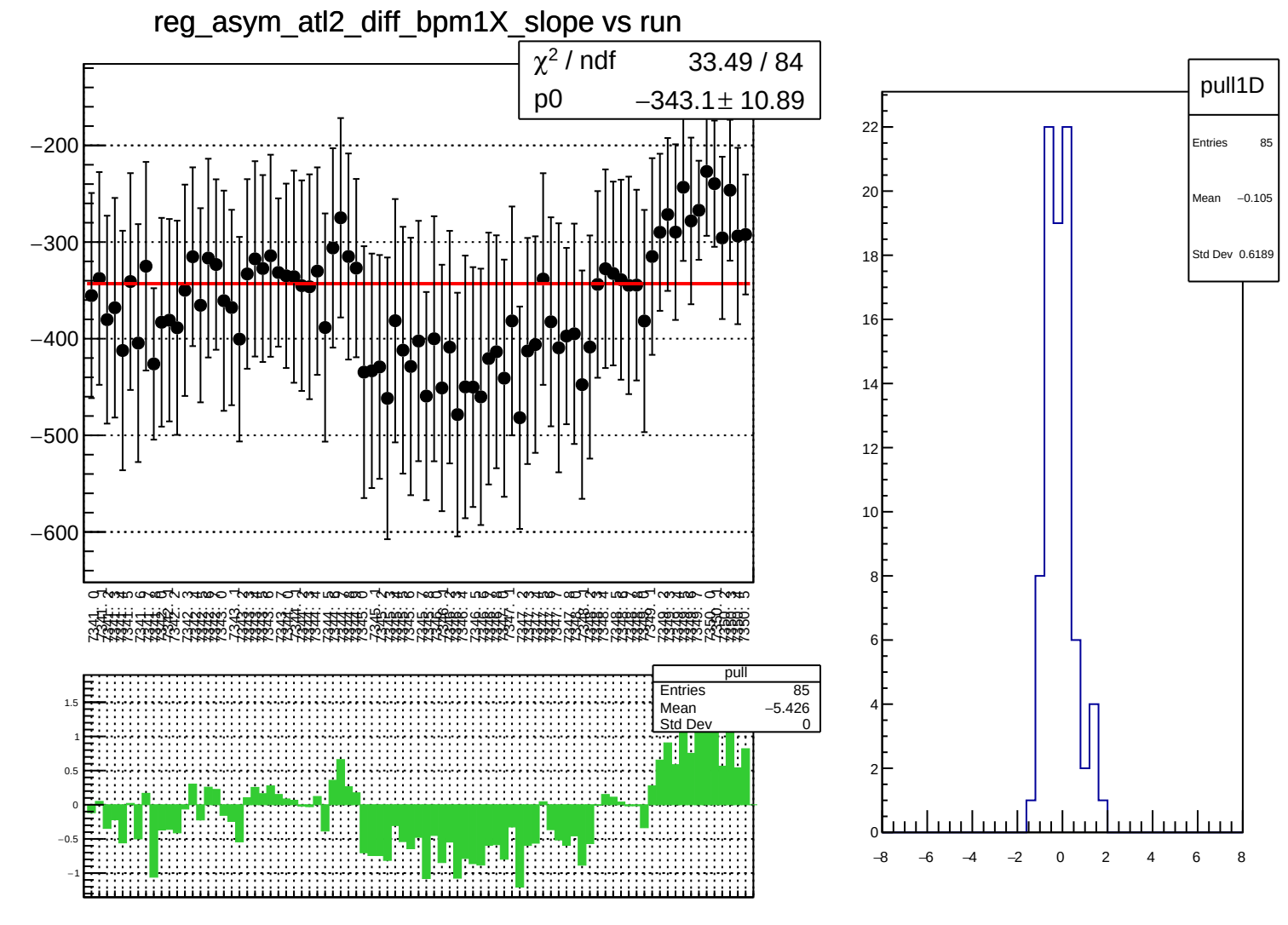

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 89.11 / 84
p0 26.58 ± 1.99
pull
Entries 85
Mean −13.54
Std Dev 0
pull1D
Entries 85
Mean 0.07899
Std Dev 1.021

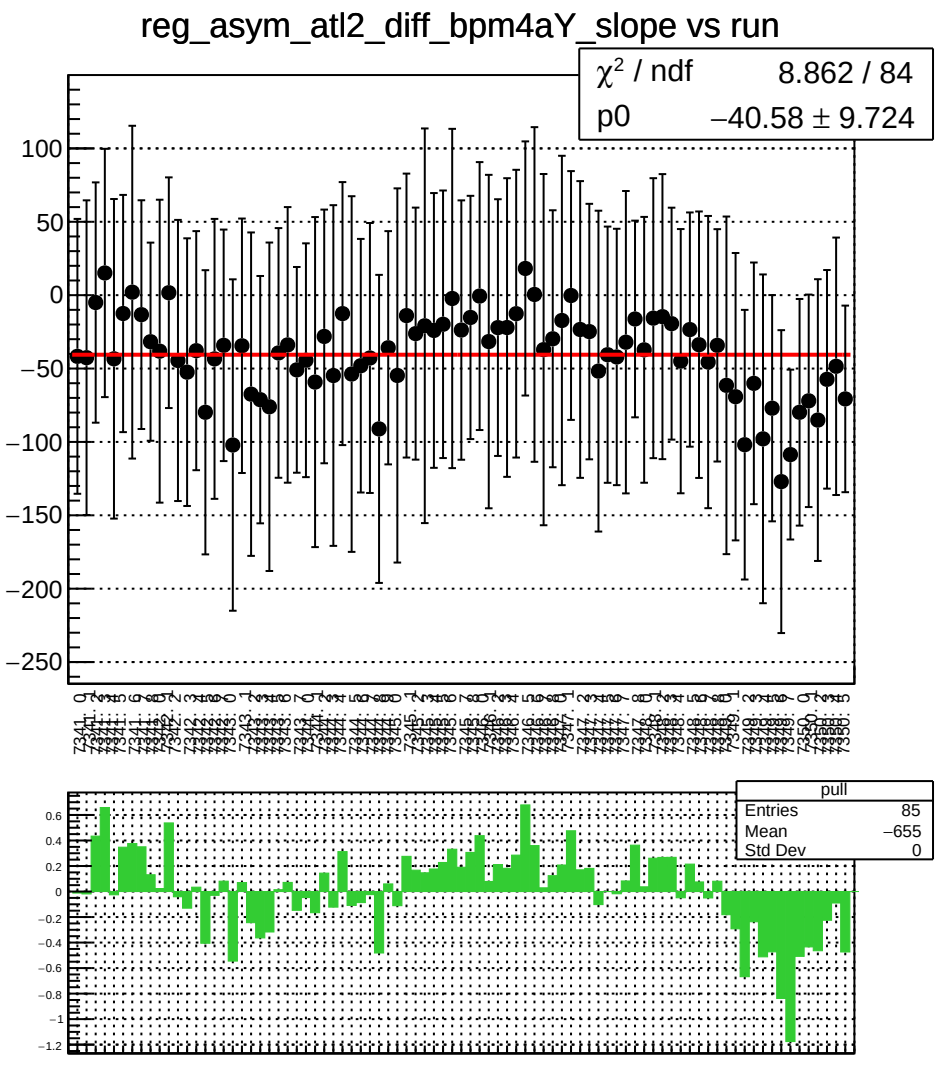

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 96.73 / 84
p0 1.623 ± 1.97
pull
Entries 85
Mean 270.8
Std Dev 0

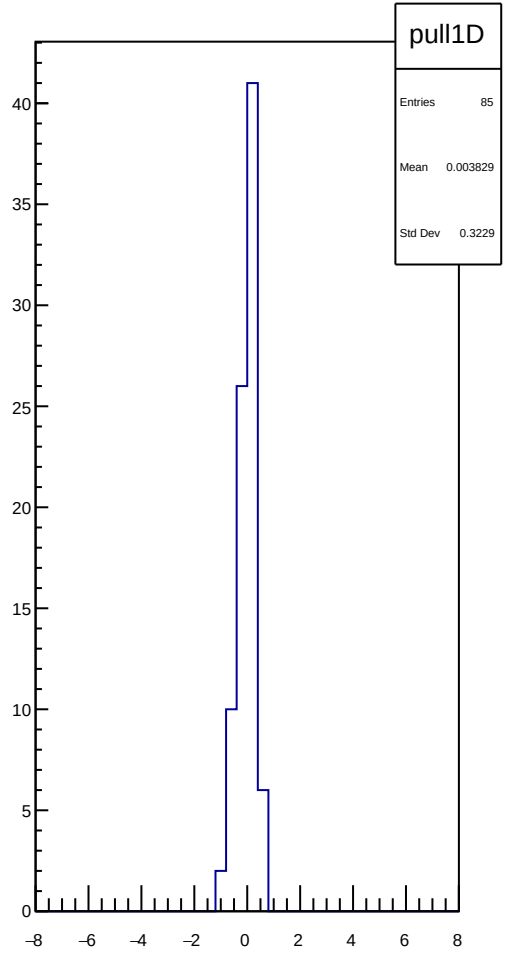

pull1D
Entries 85
Mean −0.01287
Std Dev 1.067

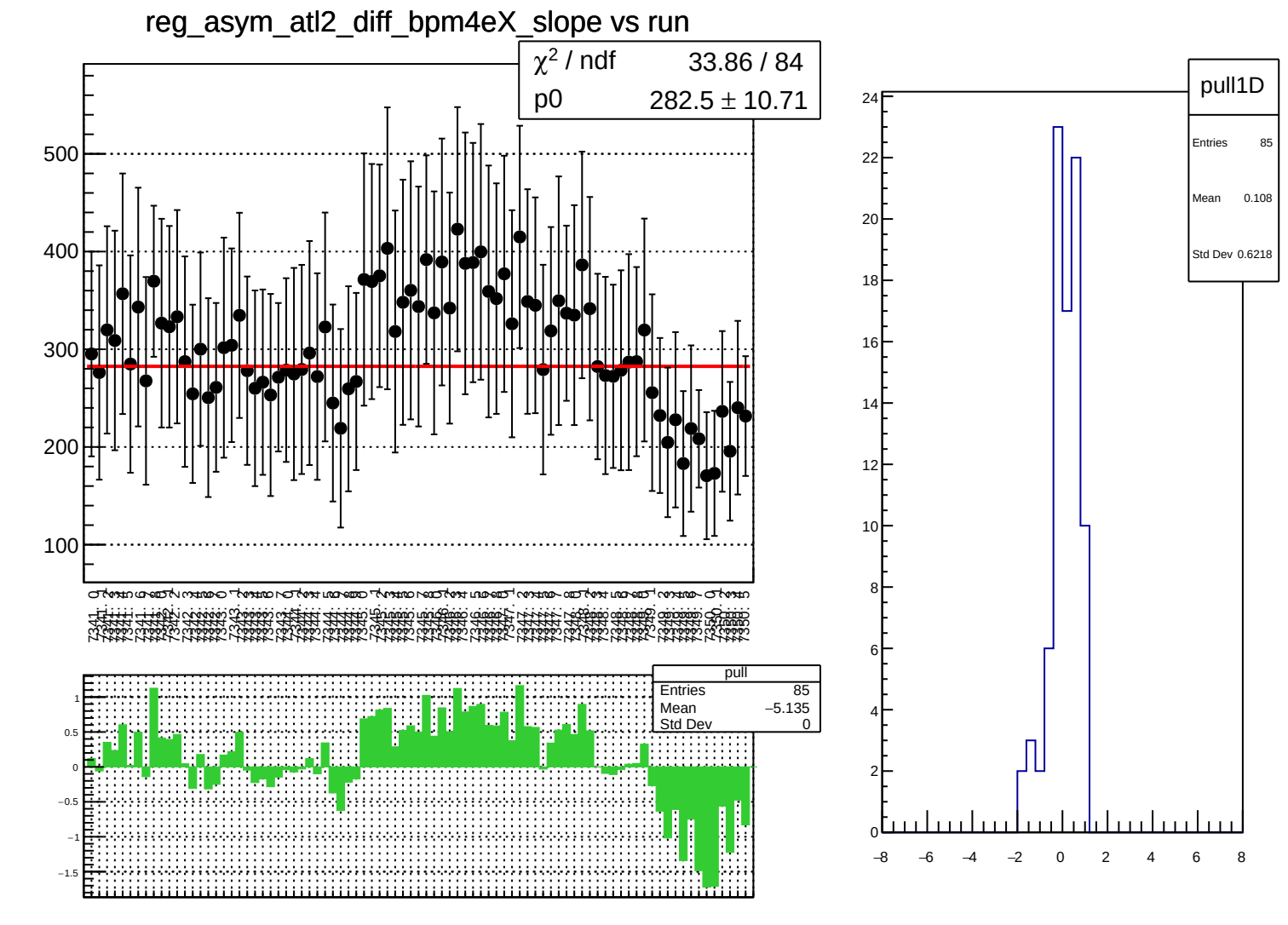

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 151.3 / 84
p0 −12.95 ± 0.08776
pull
Entries 85
Mean −1026
Std Dev 0

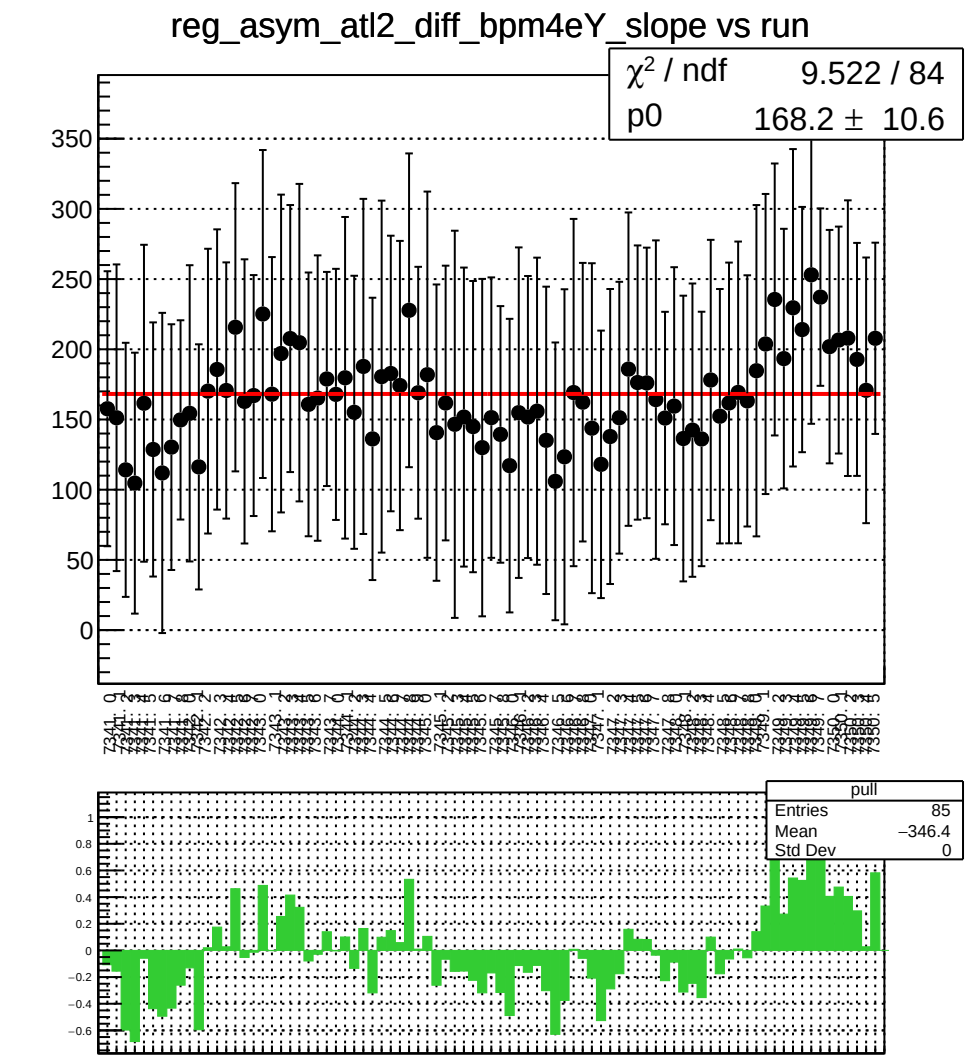

pull1D
Entries 85
Mean 0.004819
Std Dev 1.334

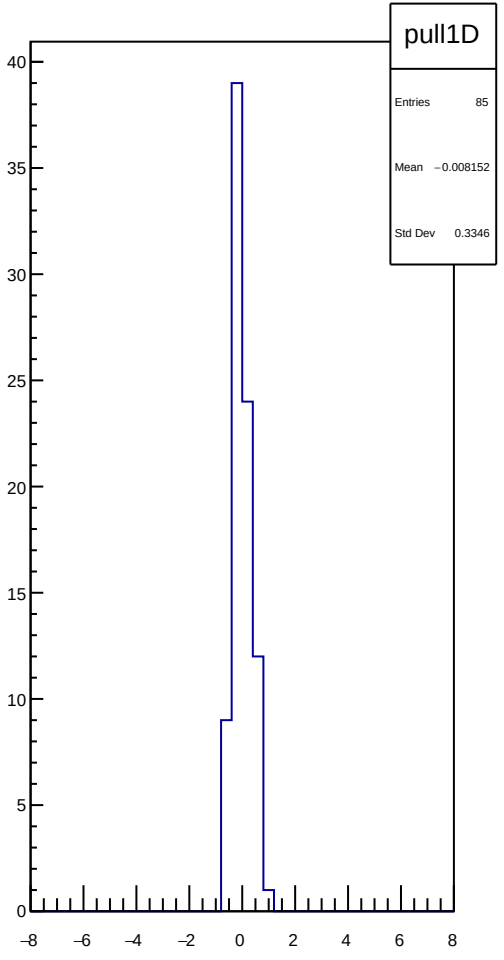

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 33.49 / 84
p0 −343.1 ± 10.89
−200
−300
−400
−500
−600
pull
Entries 85
Mean −5.426
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.105
Std Dev 0.6189
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

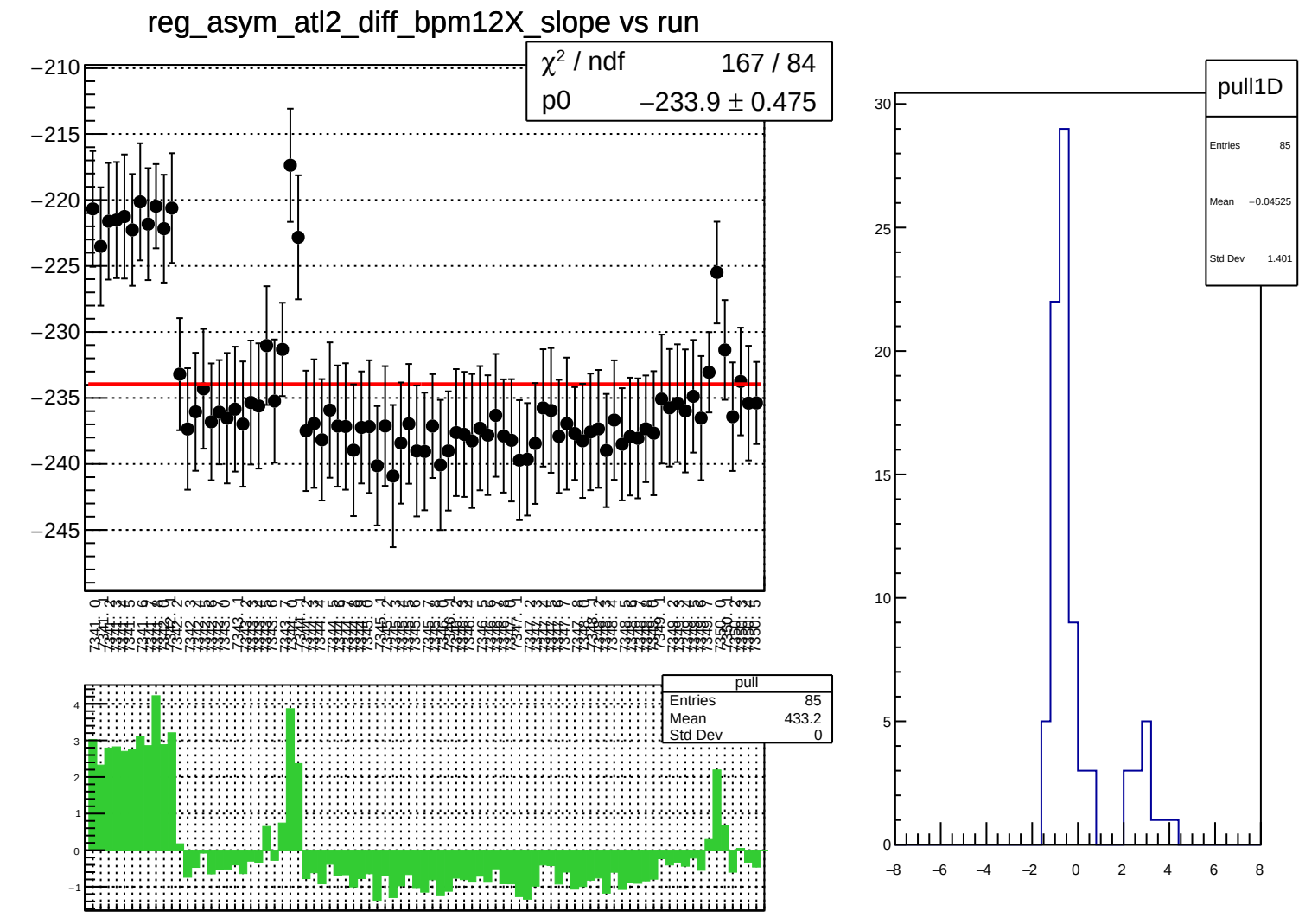

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 8.862 / 84
p0 −40.58 ± 9.724
pull
Entries 85
Mean −655
Std Dev 0

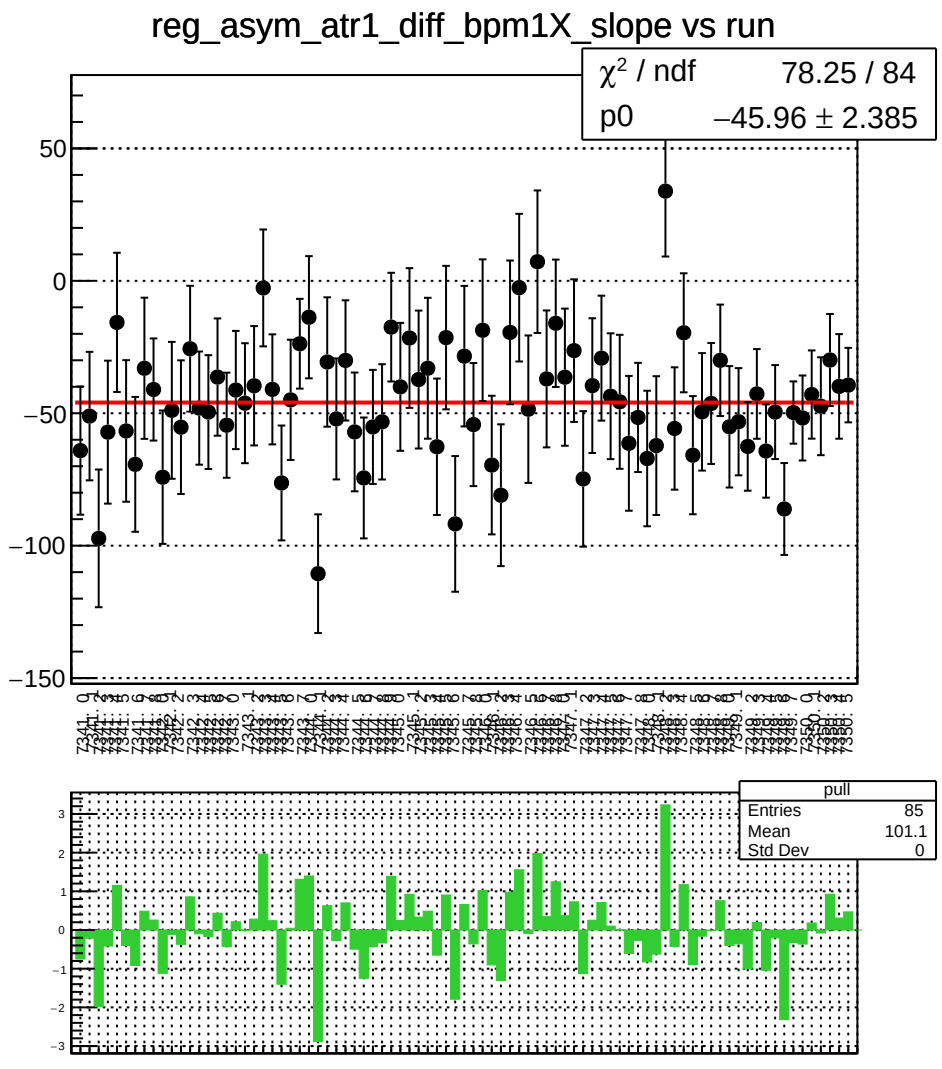

pull1D
Entries 85
Mean 0.003829
Std Dev 0.3229

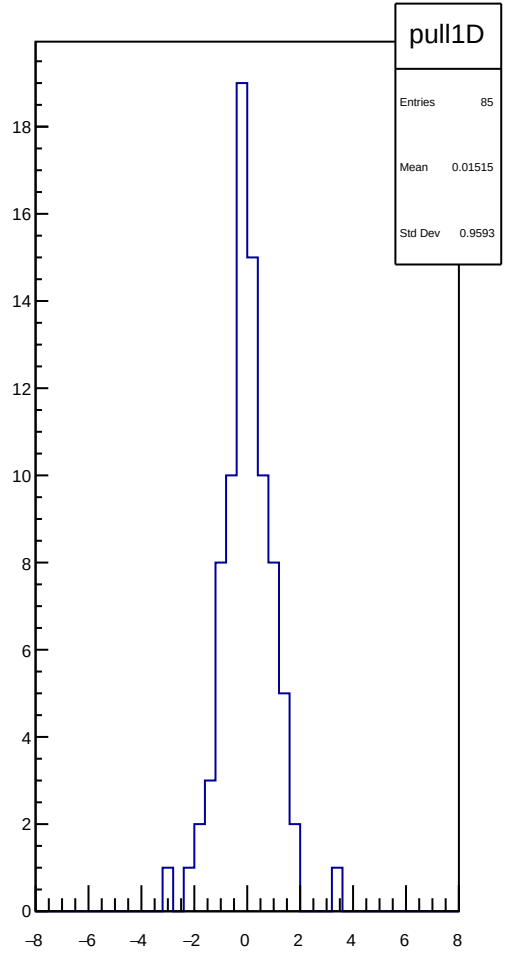

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 33.86 / 84
p0 282.5 ± 10.71
pull
Entries 85
Mean −5.135
Std Dev 0
pull1D
Entries 85
Mean 0.108
Std Dev 0.6218

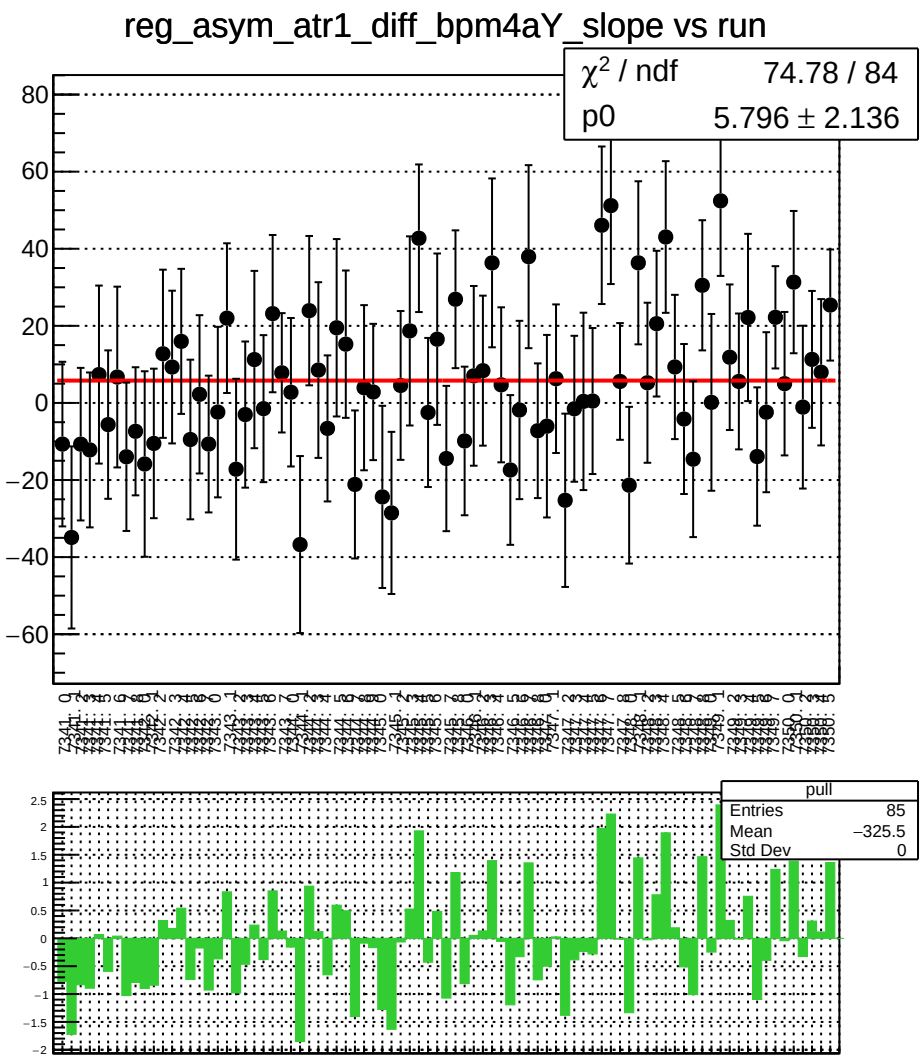

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 9.522 / 84
p0 168.2 ± 10.6
pull
Entries 85
Mean −346.4
Std Dev 0

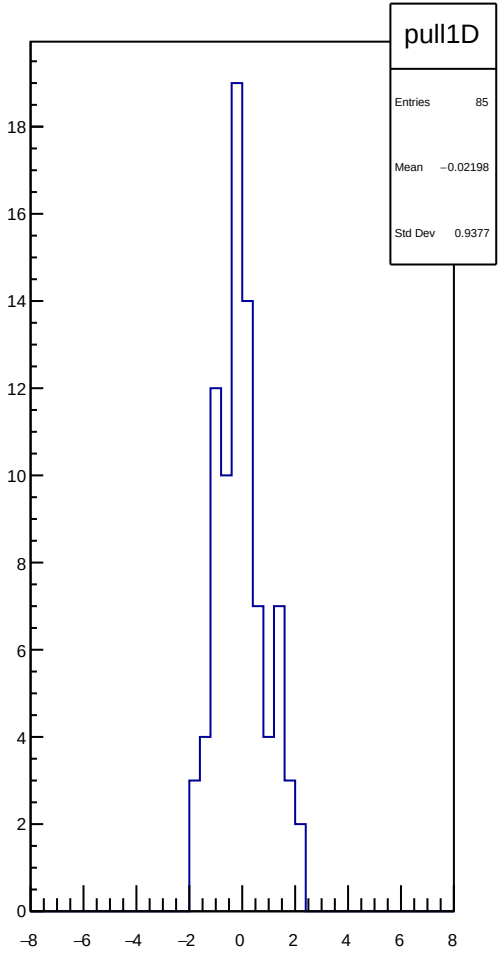

pull1D
Entries 85
Mean −0.008152
Std Dev 0.3346

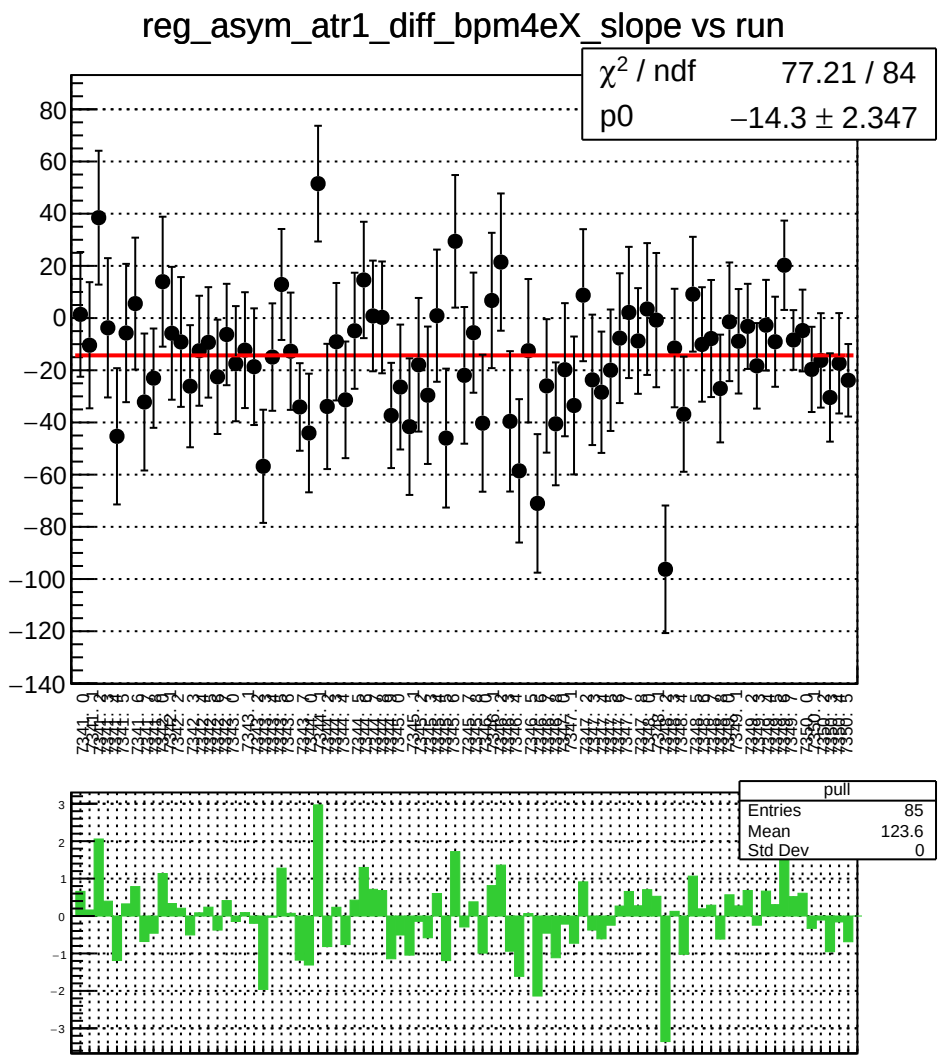

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 167 / 84
p0 −233.9 ± 0.475
pull
Entries 85
Mean 433.2
Std Dev 0
pull1D
Entries 85
Mean −0.04525
Std Dev 1.401

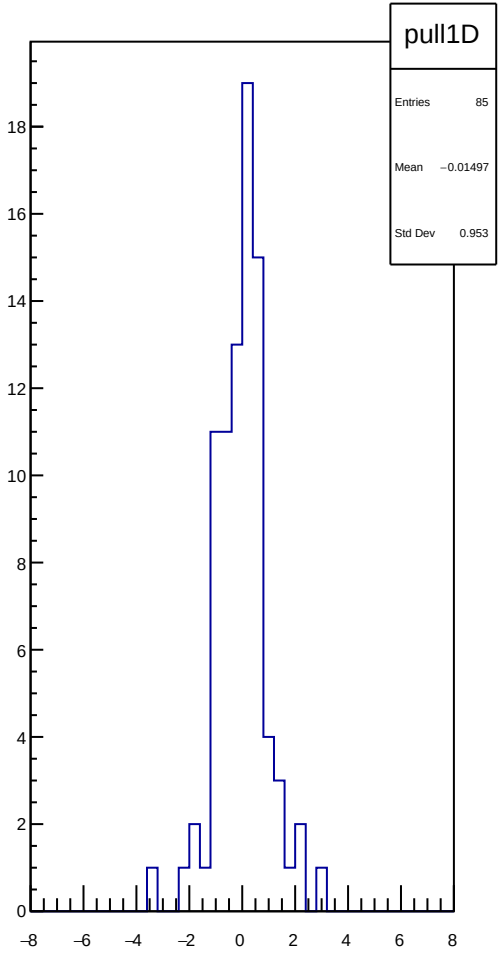

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 78.25 / 84
p0 −45.96 ± 2.385
pull
Entries 85
Mean 101.1
Std Dev 0

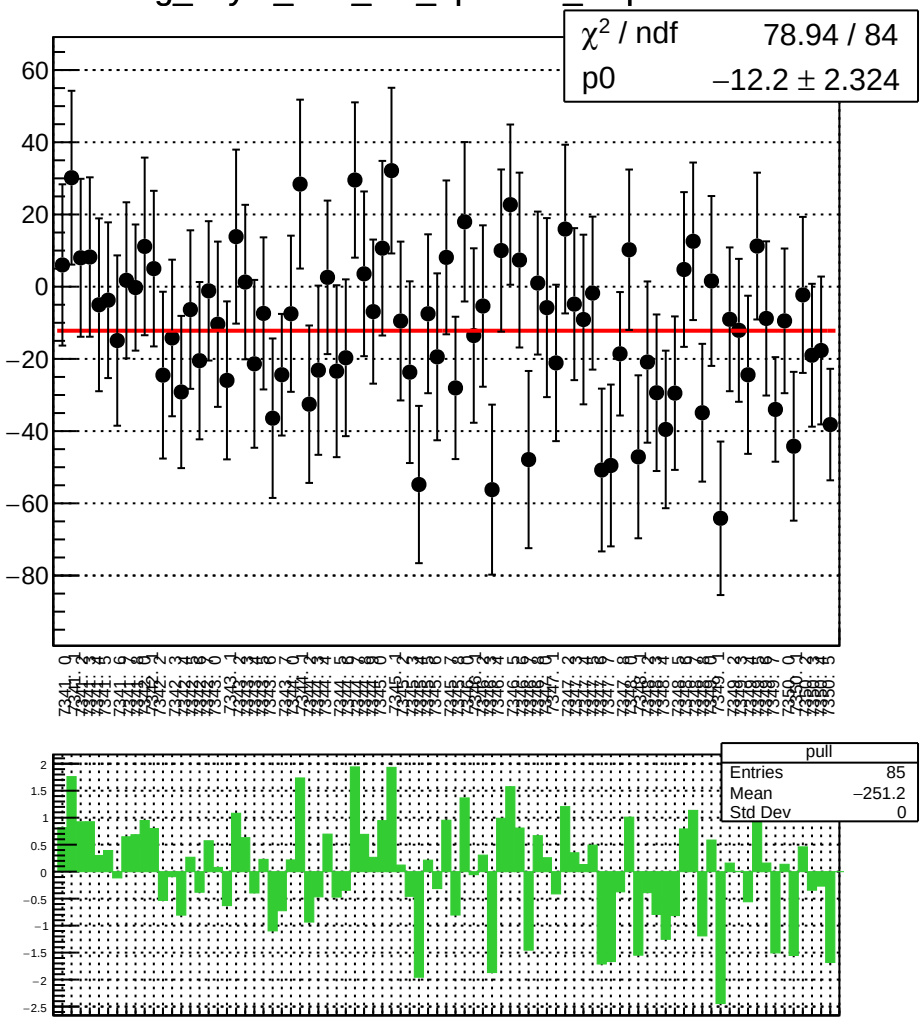

pull1D
Entries 85
Mean 0.01515
Std Dev 0.9593

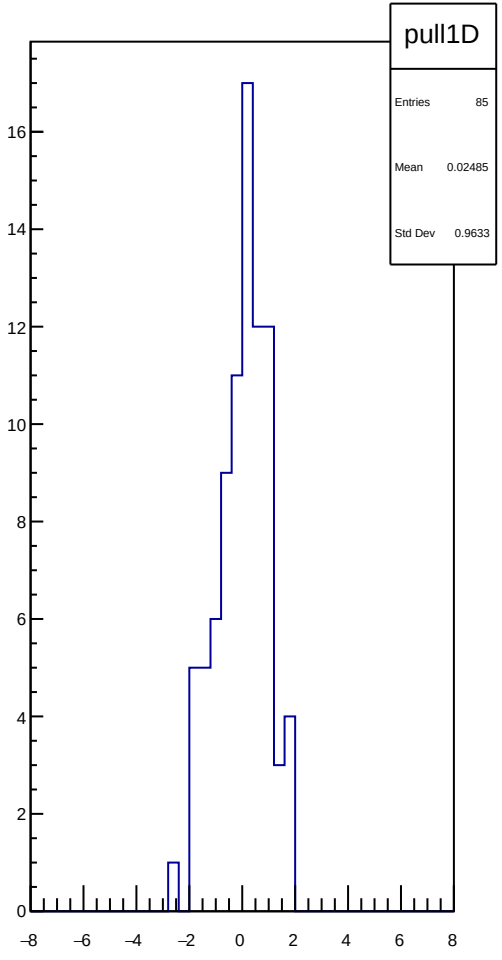

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 74.78 / 84
p0 5.796 ± 2.136
pull
Entries 85
Mean −325.5
Std Dev 0

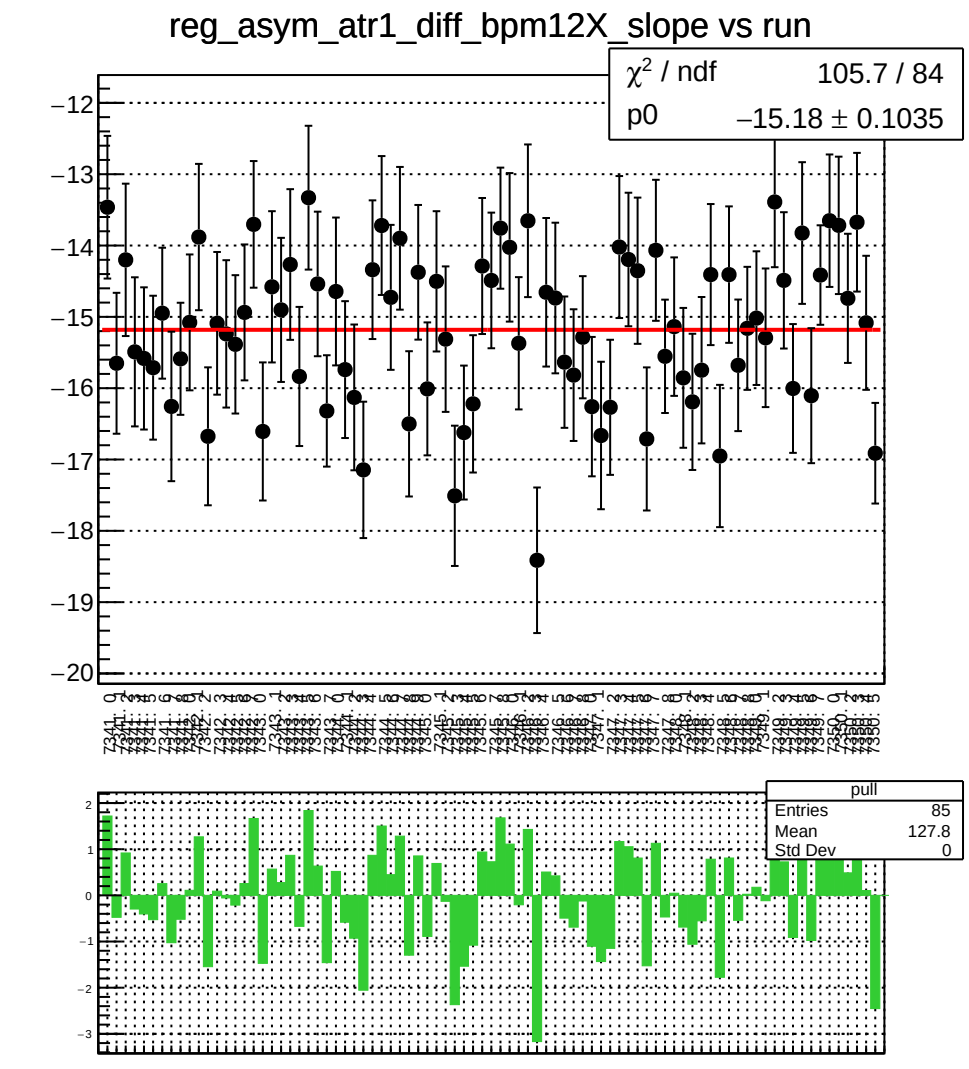

pull1D
Entries 85
Mean −0.02198
Std Dev 0.9377

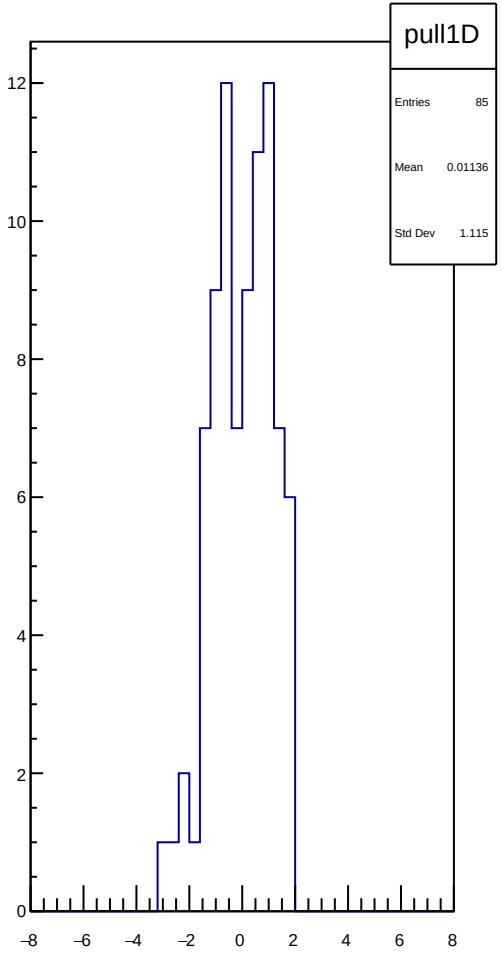

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 77.21 / 84
p0 −14.3 ± 2.347
pull
Entries 85
Mean 123.6
Std Dev 0

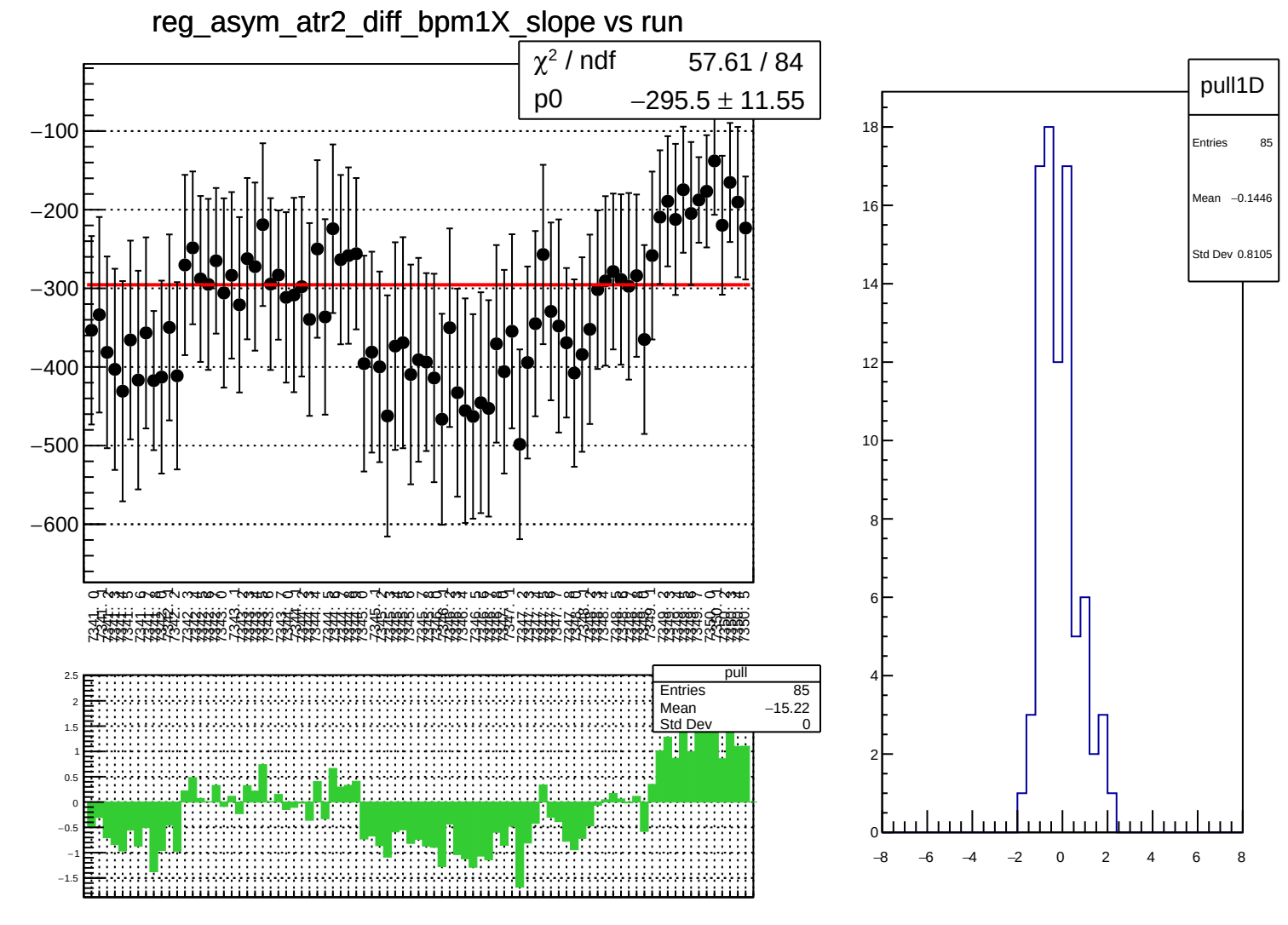

pull1D
Entries 85
Mean −0.01497
Std Dev 0.953

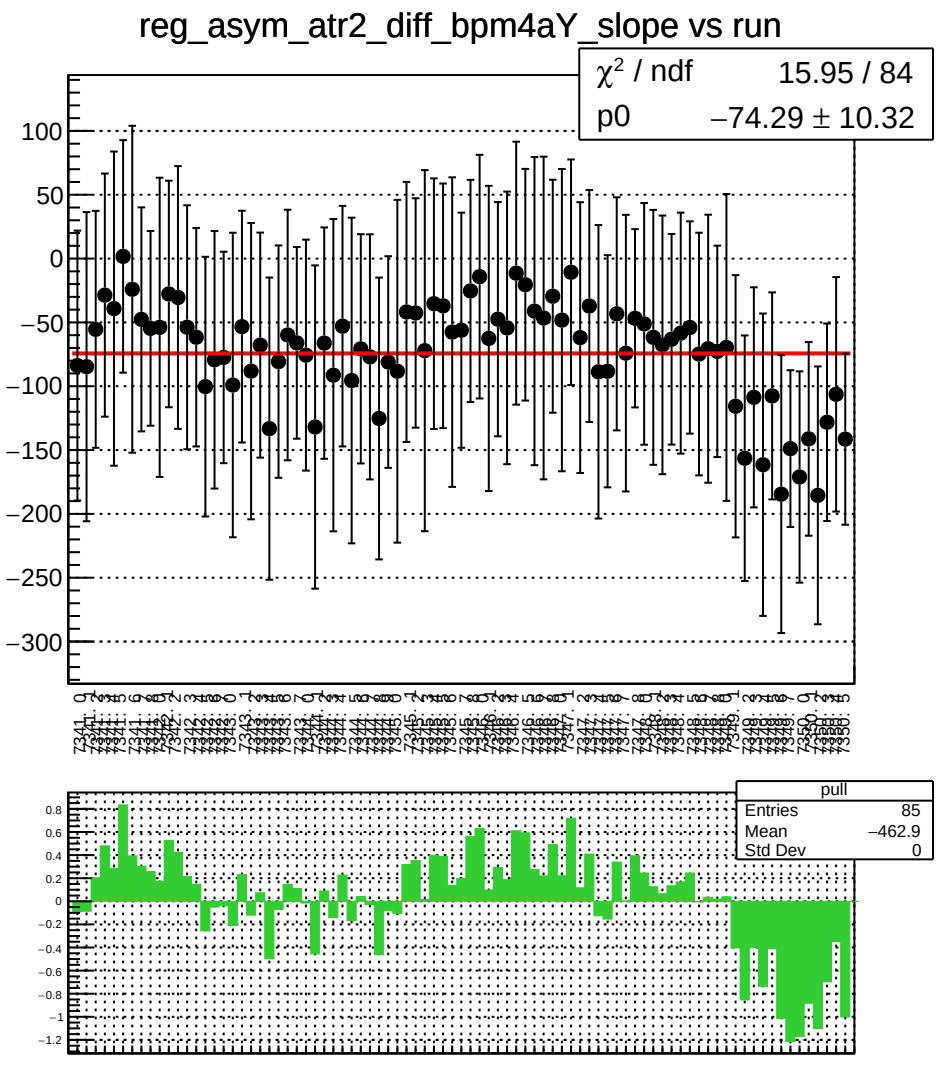

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 78.94 / 84
p0 −12.2 ± 2.324
pull
Entries 85
Mean −251.2
Std Dev 0

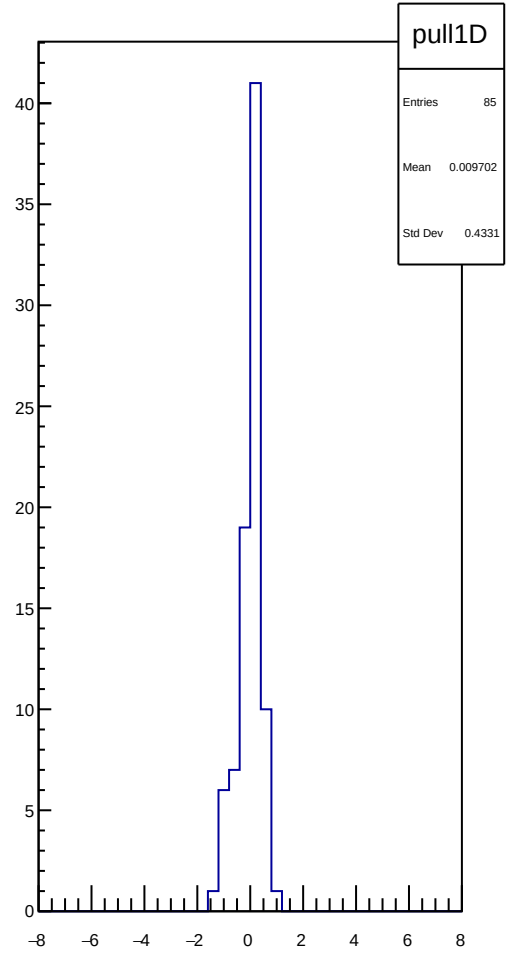

pull1D
Entries 85
Mean 0.02485
Std Dev 0.9633

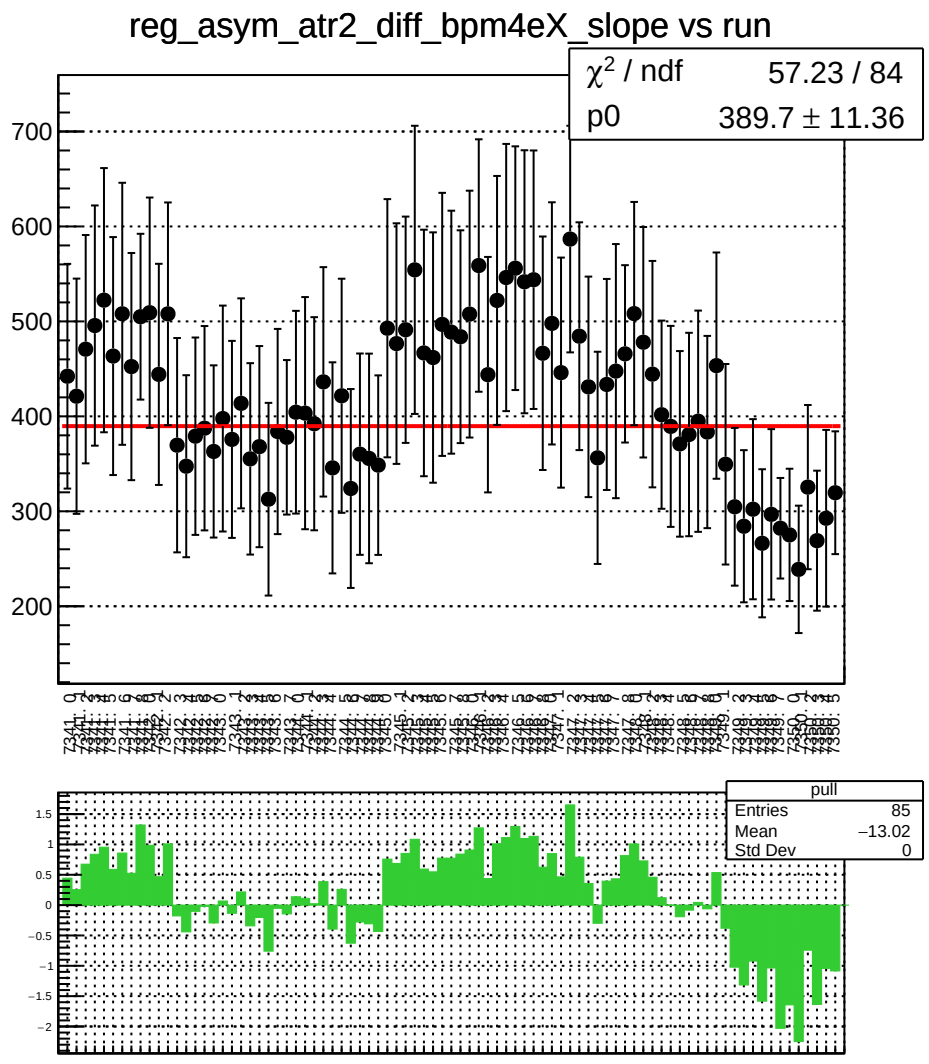

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 105.7 / 84
p0 −15.18 ± 0.1035
pull
Entries 85
Mean 127.8
Std Dev 0

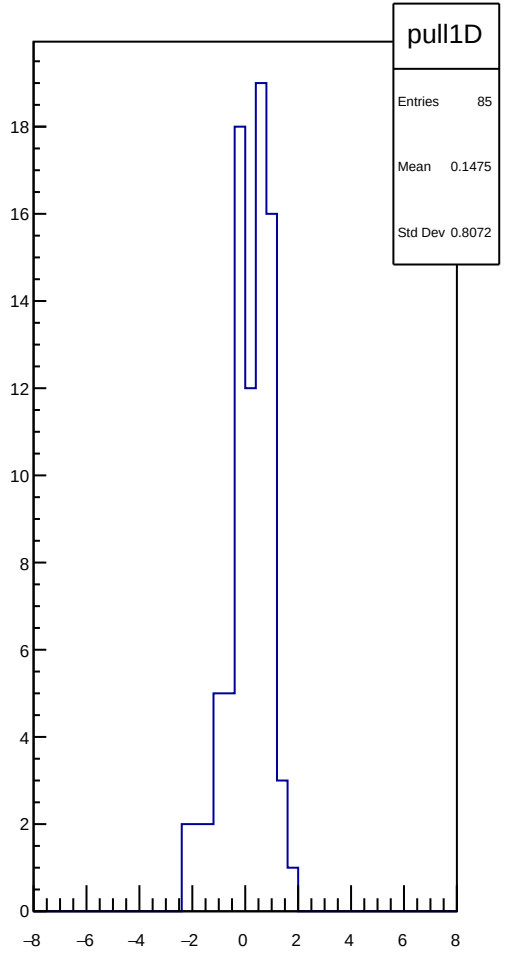

pull1D
Entries 85
Mean 0.01136
Std Dev 1.115

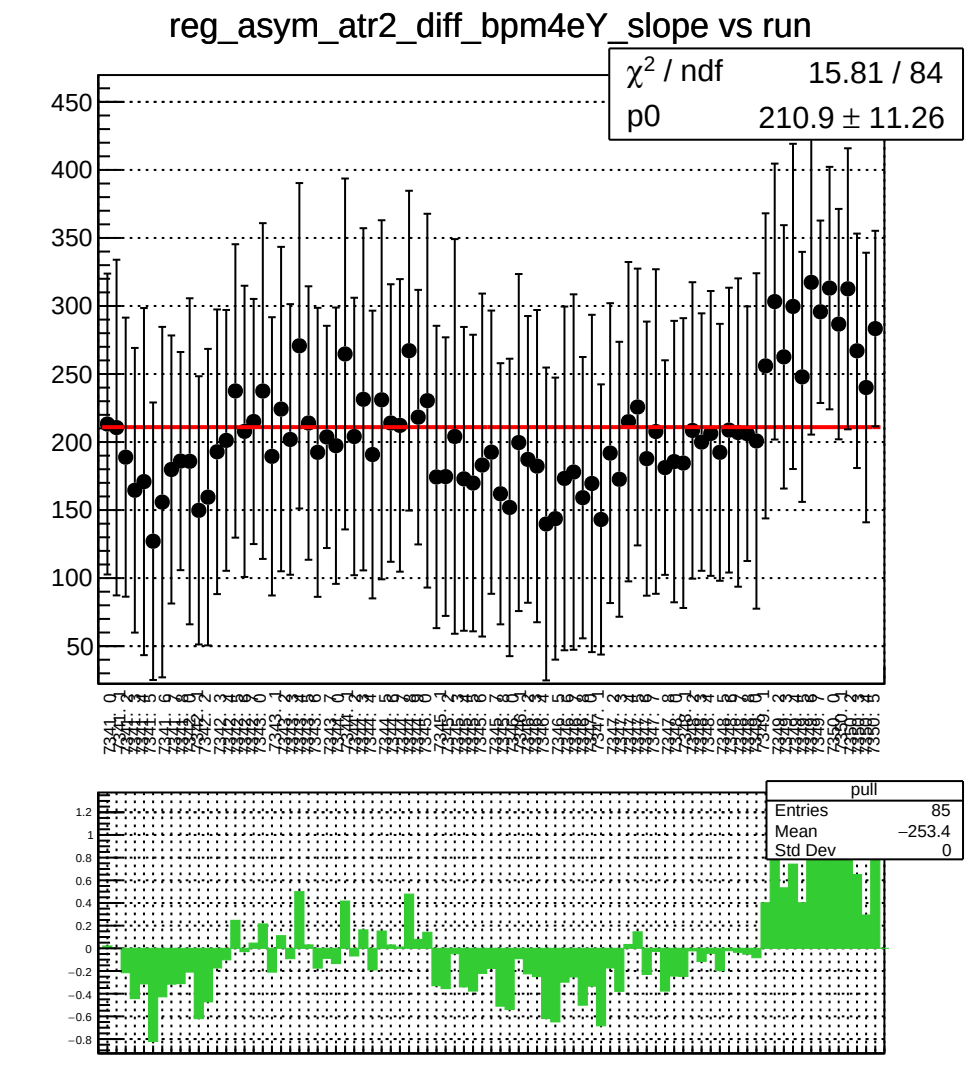

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 57.61 / 84
p0 −295.5 ± 11.55
pull
Entries 85
Mean −15.22
Std Dev 0
pull1D
Entries 85
Mean −0.1446
Std Dev 0.8105

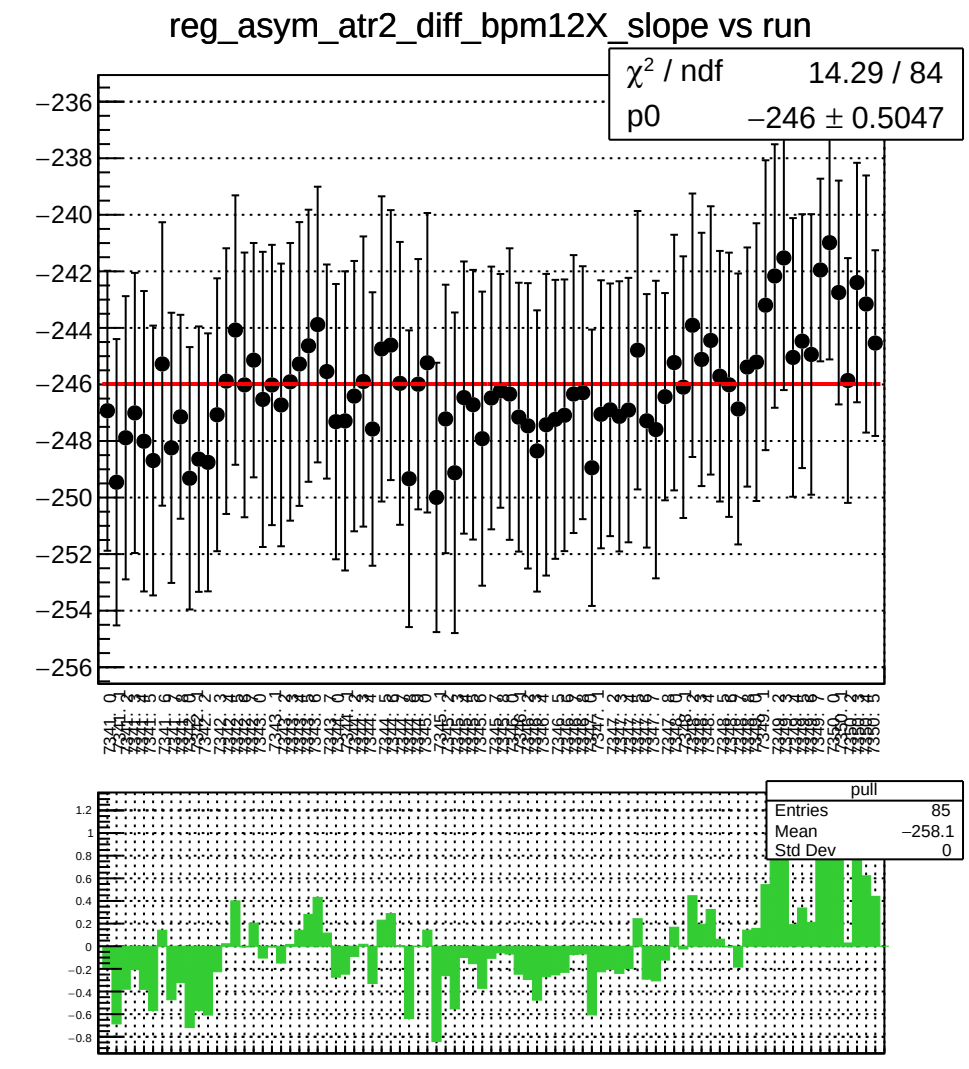

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 15.95 / 84
p0 −74.29 ± 10.32
pull
Entries 85
Mean −462.9
Std Dev 0

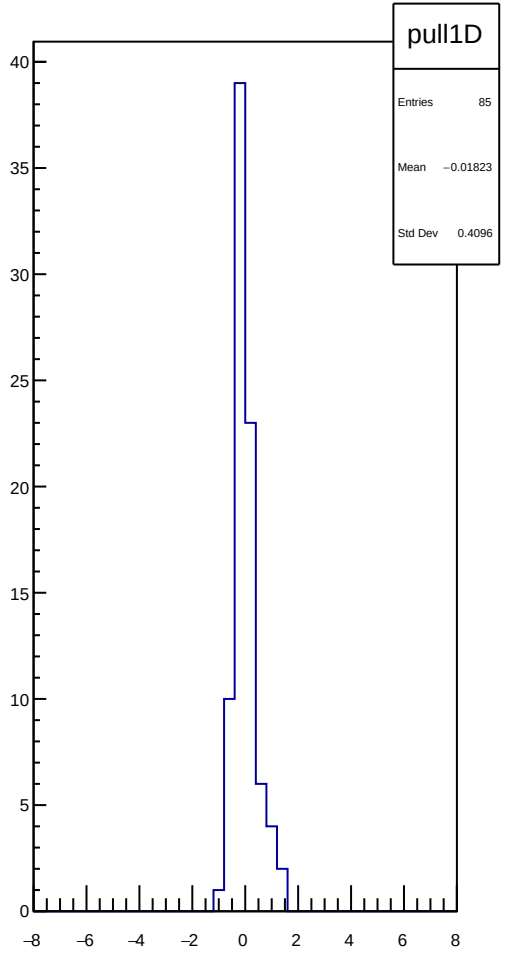

pull1D
Entries 85
Mean 0.009702
Std Dev 0.4331

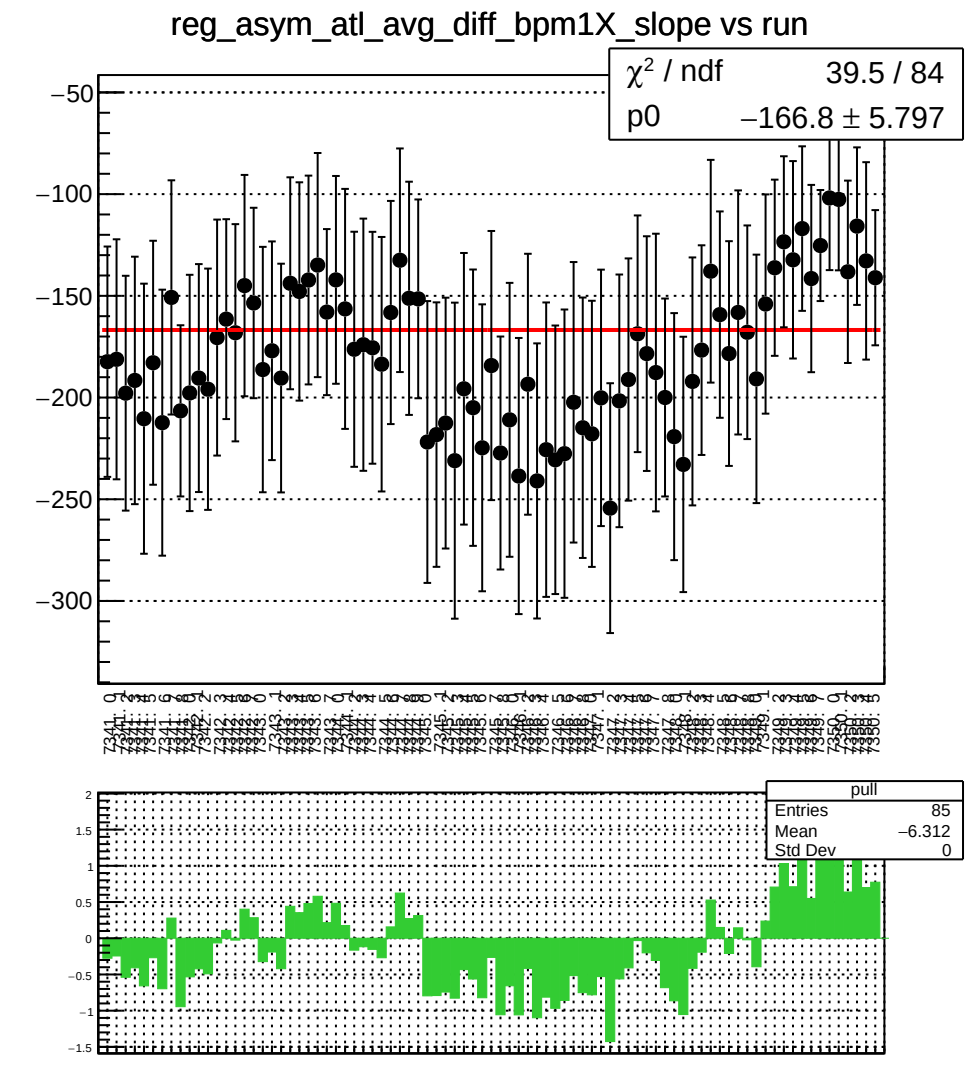

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 57.23 / 84
p0 389.7 ± 11.36
700
600
500
400
300
200
pull
Entries 85
Mean −13.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

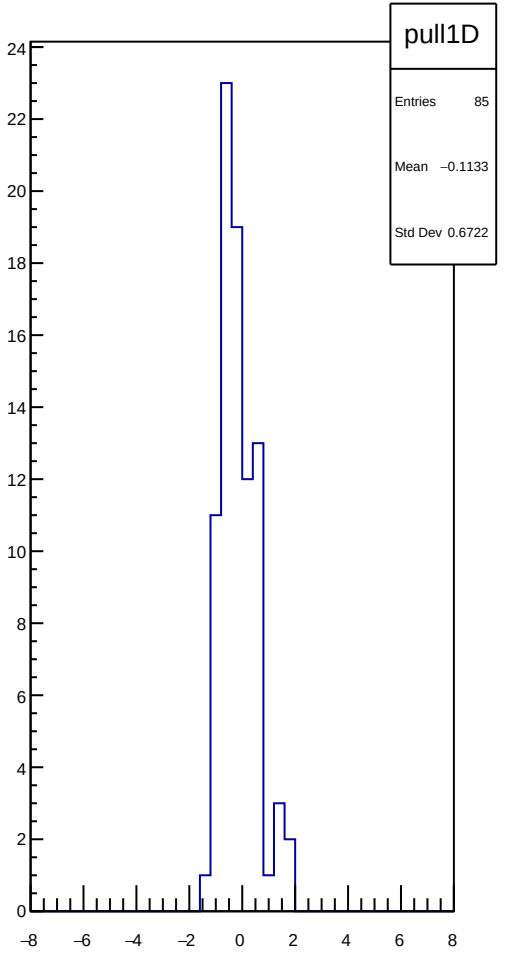

pull1D
Entries 85
Mean 0.1475
Std Dev 0.8072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

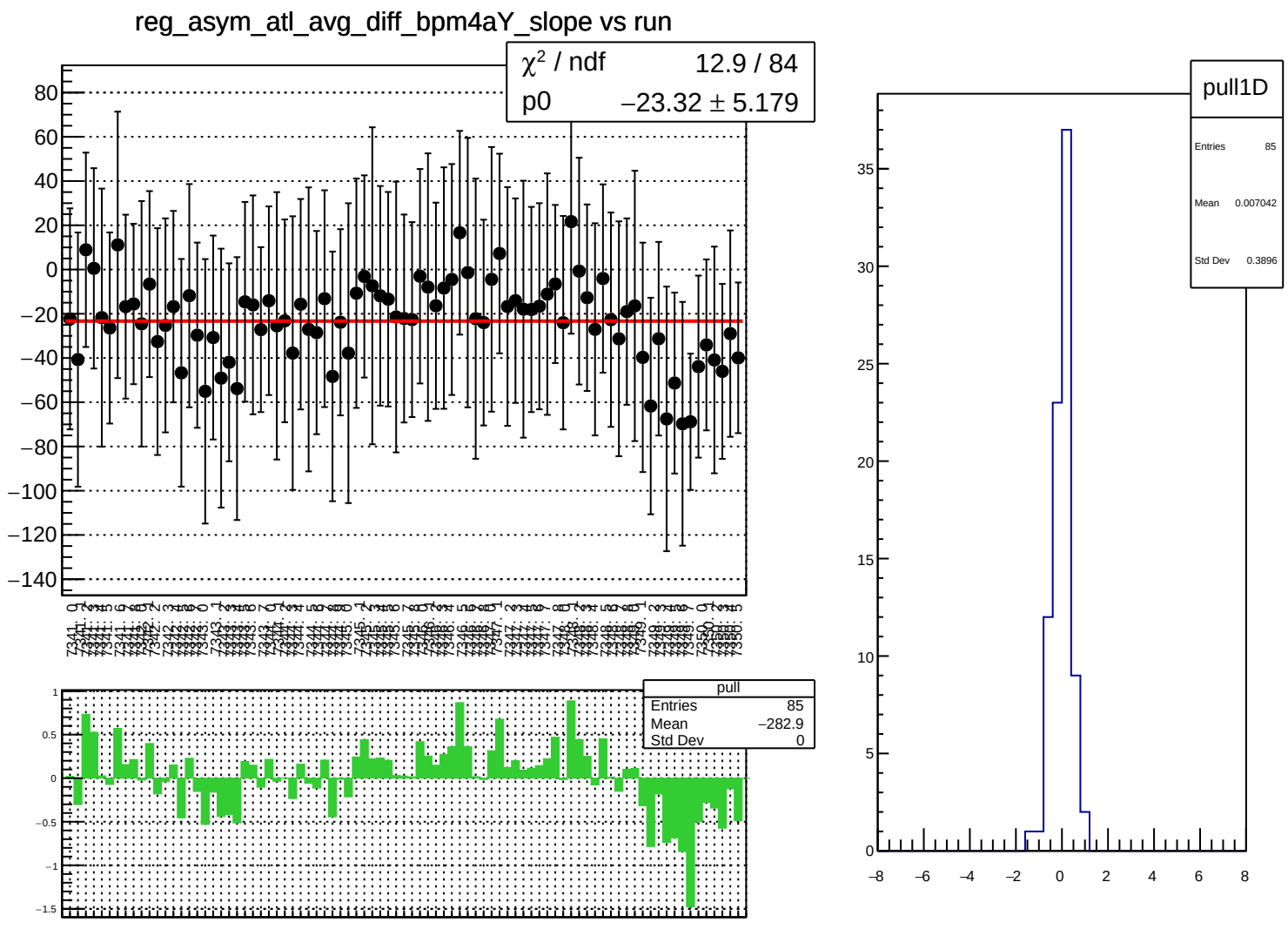

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 15.81 / 84
p0 210.9 ± 11.26
pull
Entries 85
Mean −253.4
Std Dev 0
pull1D
Entries 85
Mean −0.01706
Std Dev 0.4309

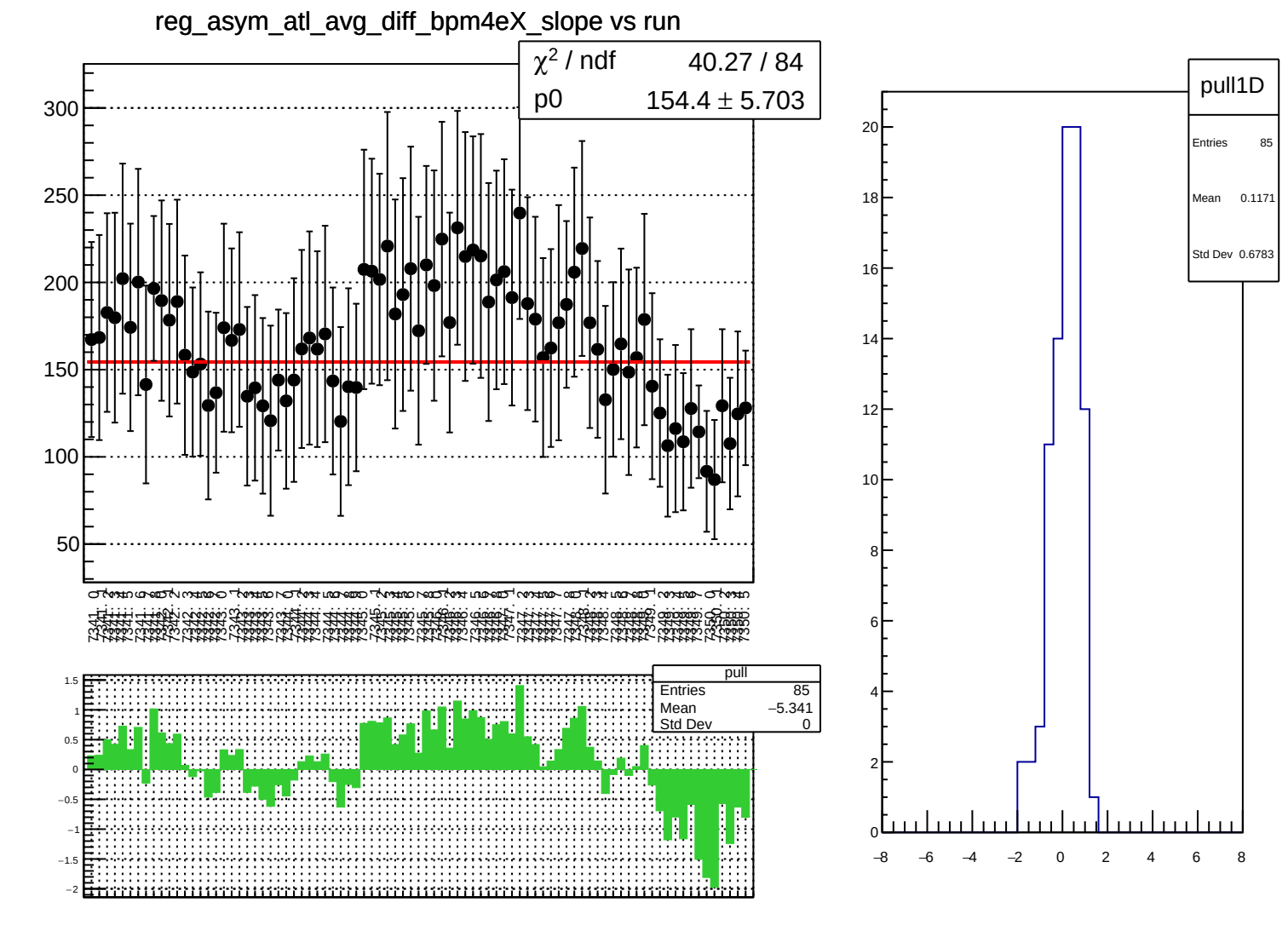

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 14.29 / 84
p0 −246 ± 0.5047
pull
Entries 85
Mean −258.1
Std Dev 0

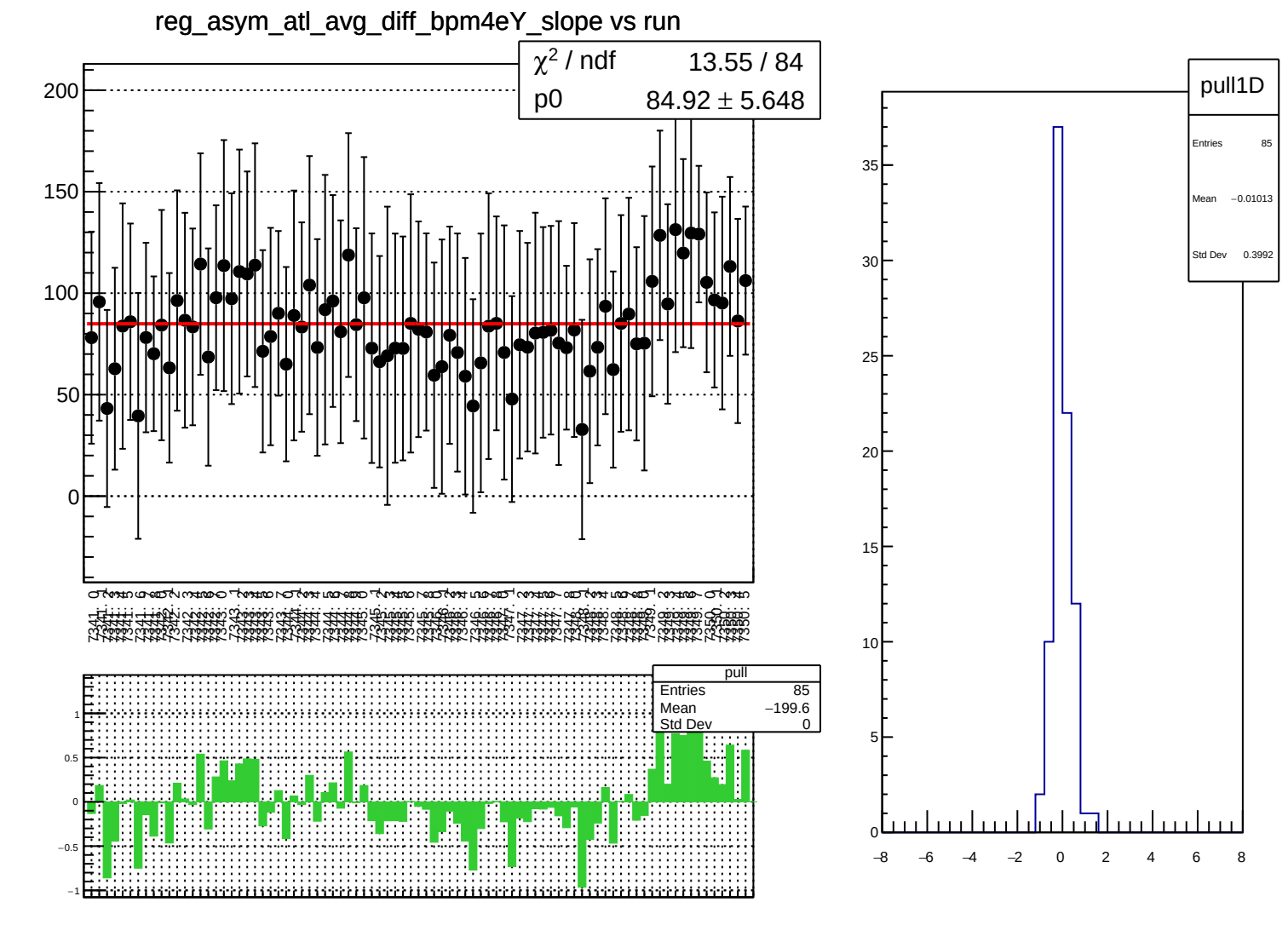

pull1D
Entries 85
Mean −0.01823
Std Dev 0.4096

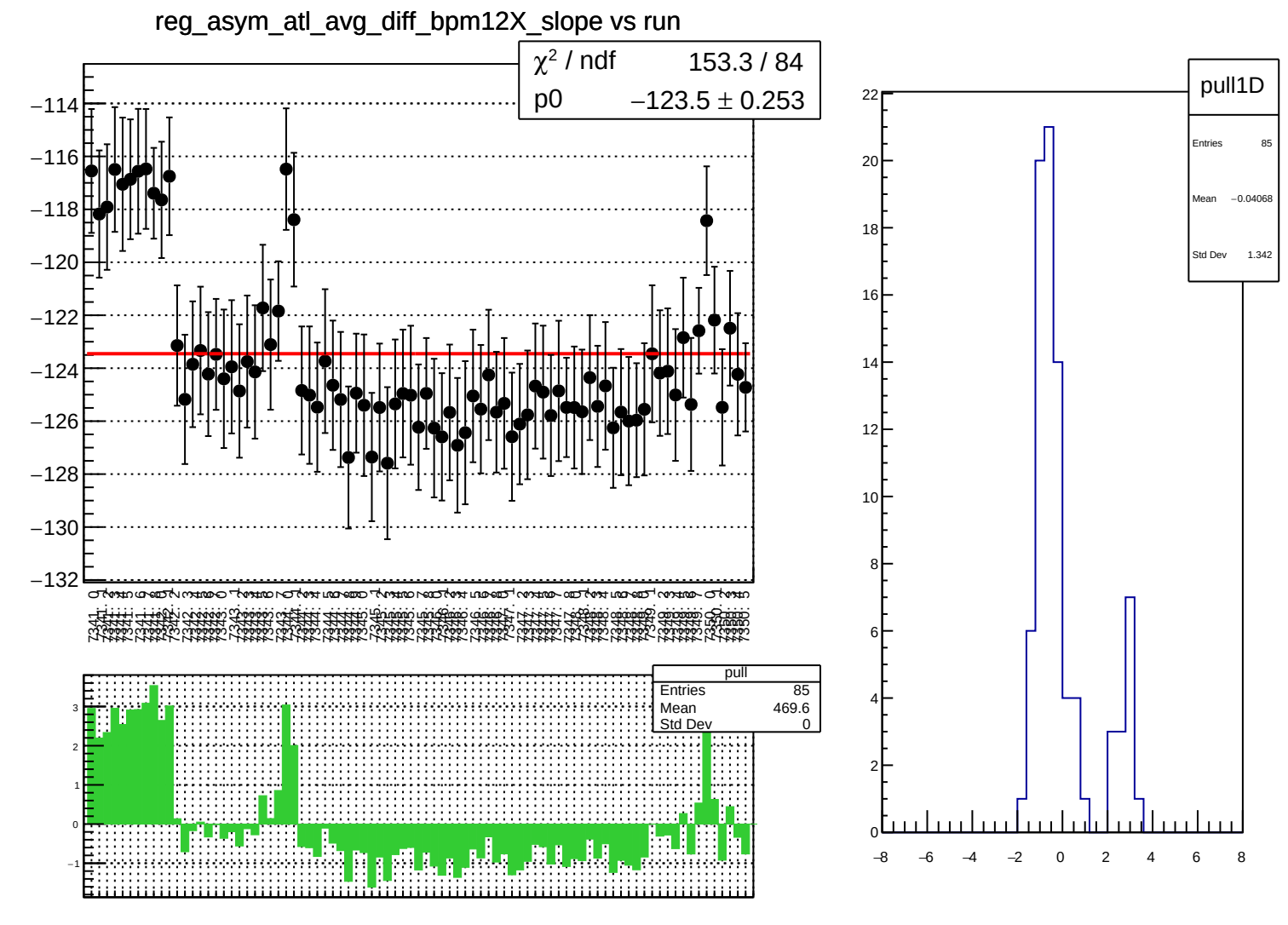

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 39.5 / 84
p0 −166.8 ± 5.797
pull
Entries 85
Mean −6.312
Std Dev 0

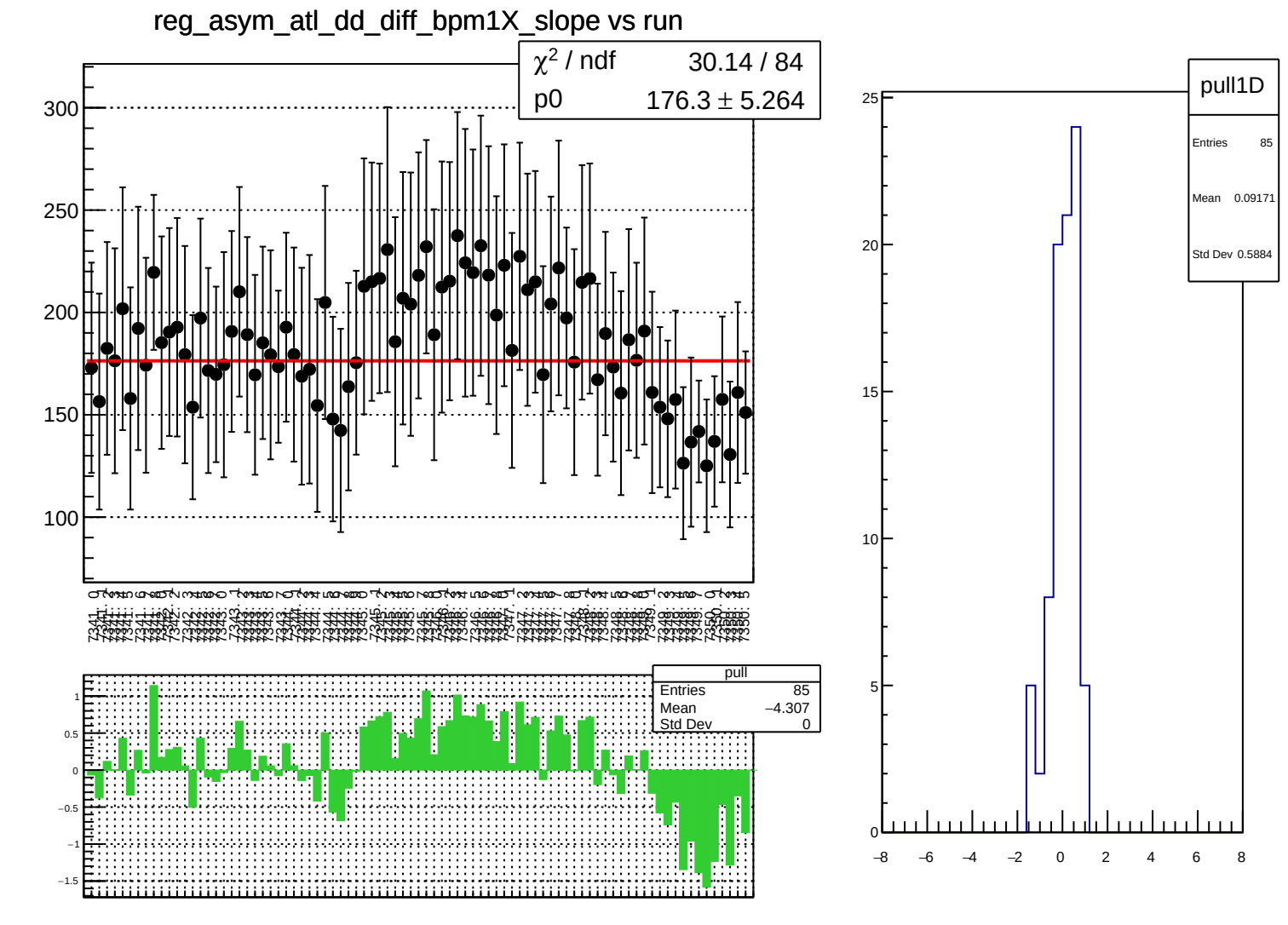

pull1D
Entries 85
Mean −0.1133
Std Dev 0.6722

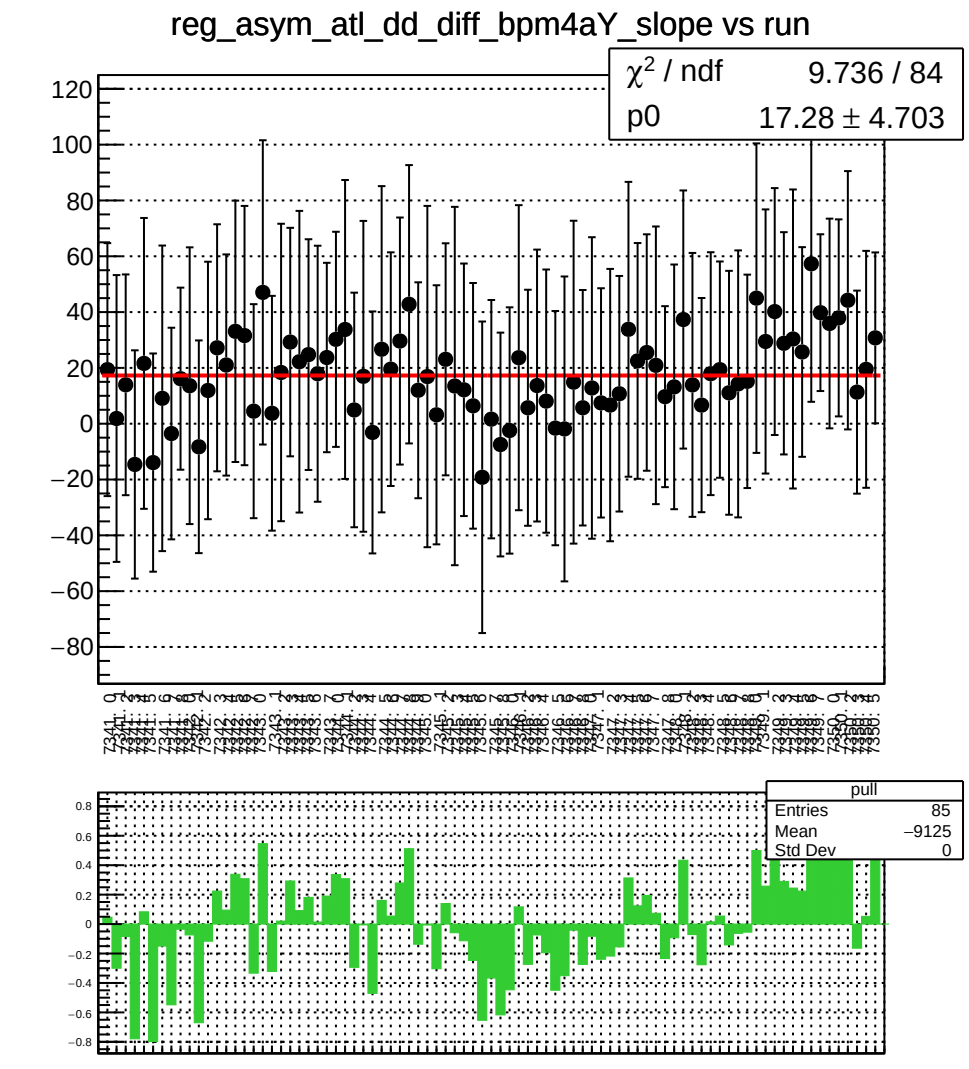

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.9 / 84
p0 −23.32 ± 5.179
pull
Entries 85
Mean −282.9
Std Dev 0
pull1D
Entries 85
Mean 0.007042
Std Dev 0.3896

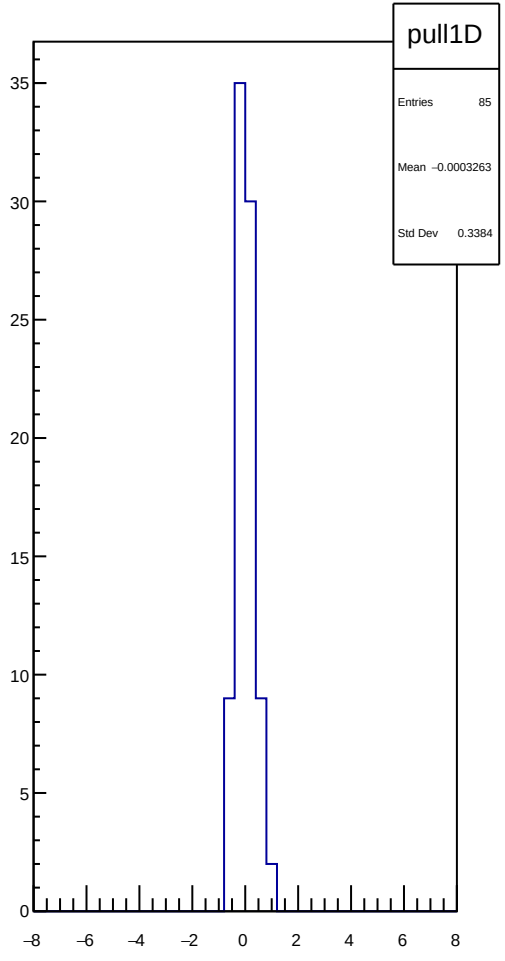

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.27 / 84
p0 154.4 ± 5.703
pull
Entries 85
Mean −5.341
Std Dev 0
pull1D
Entries 85
Mean 0.1171
Std Dev 0.6783

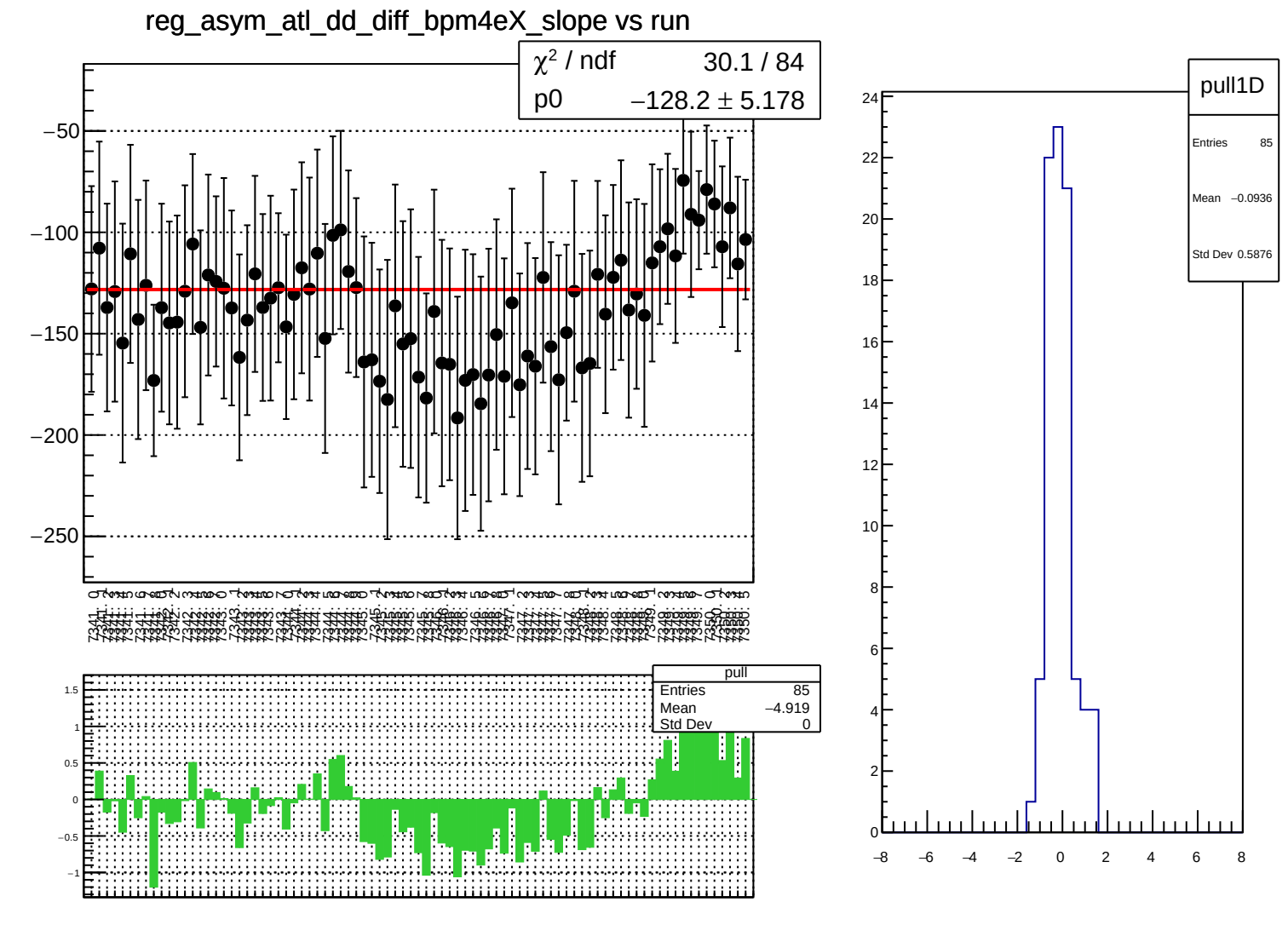

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.55 / 84
p0 84.92 ± 5.648
pull
Entries 85
Mean −199.6
Std Dev 0
pull1D
Entries 85
Mean −0.01013
Std Dev 0.3992

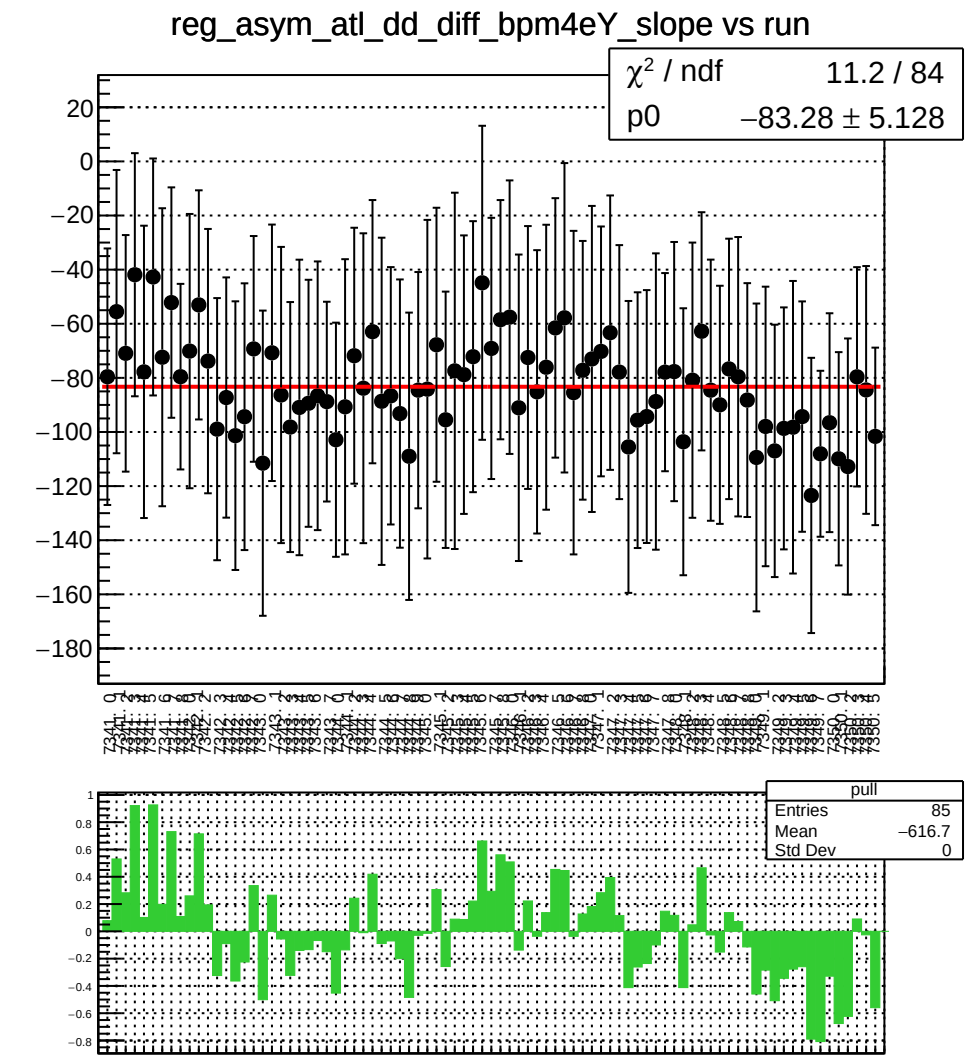

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 153.3 / 84
p0 −123.5 ± 0.253
pull
Entries 85
Mean 469.6
Std Dev 0
pull1D
Entries 85
Mean −0.04068
Std Dev 1.342

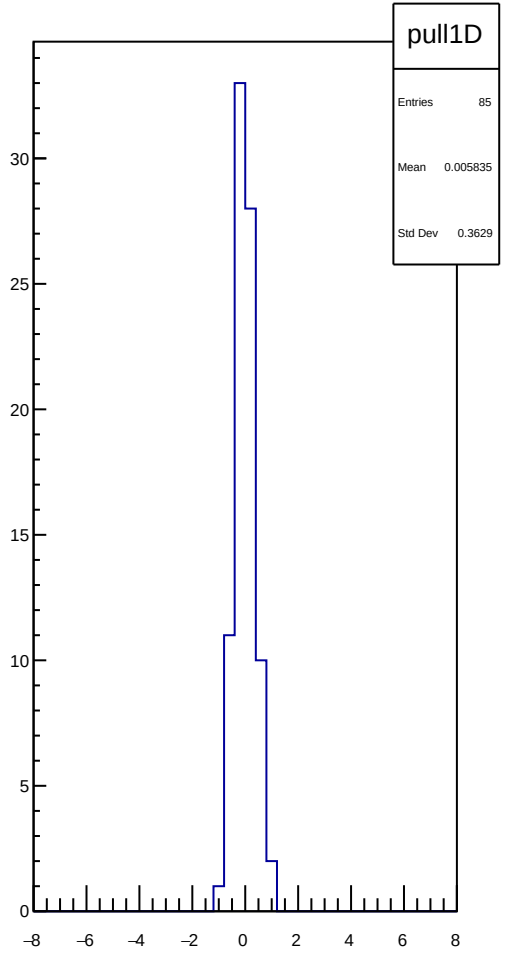

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 30.14 / 84
p0 176.3 ± 5.264
300
250
200
150
100
pull
Entries 85
Mean −4.307
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 85
Mean 0.09171
Std Dev 0.5884
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

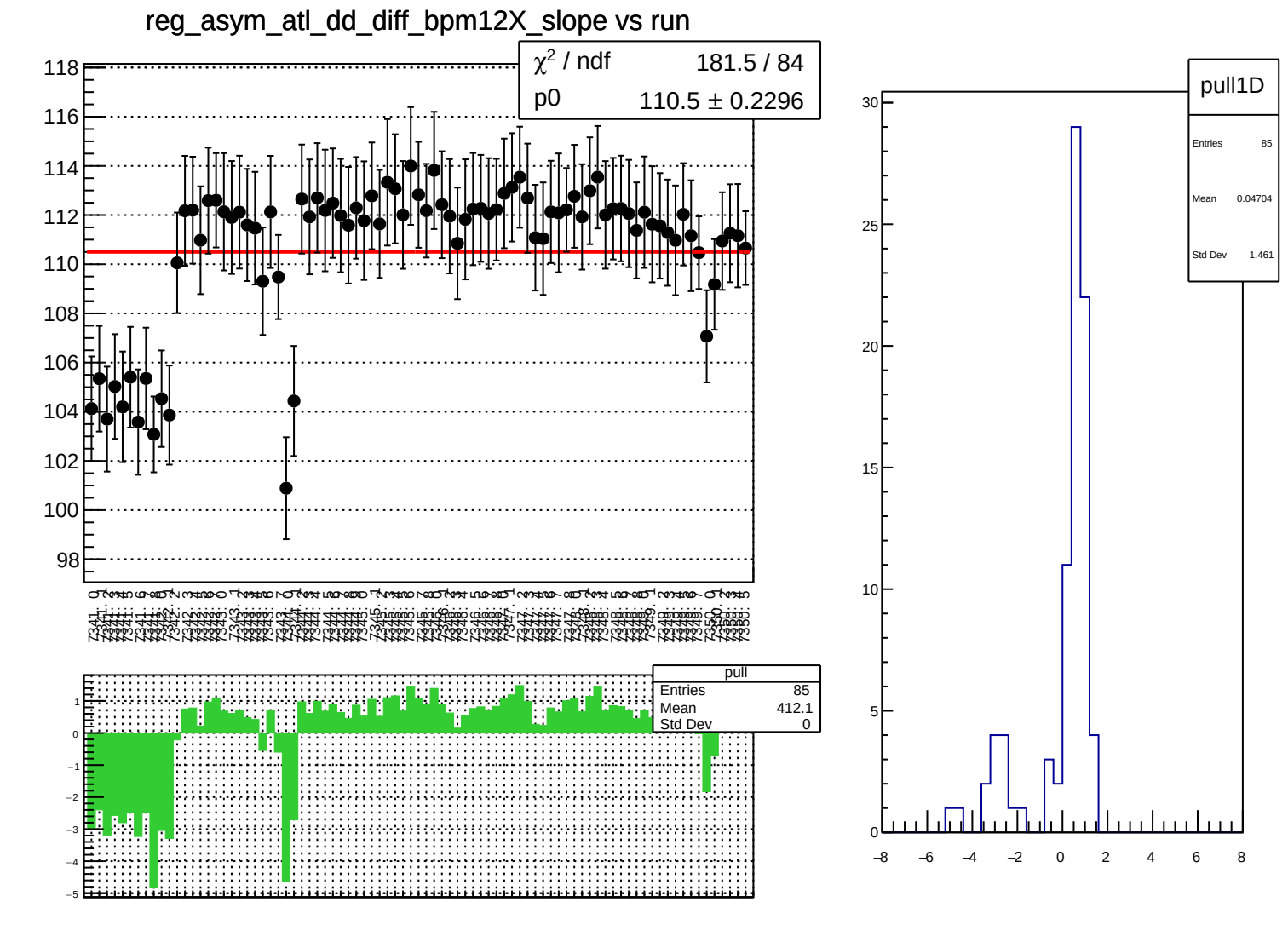

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.736 / 84
p0 17.28 ± 4.703
pull
Entries 85
Mean −9125
Std Dev 0

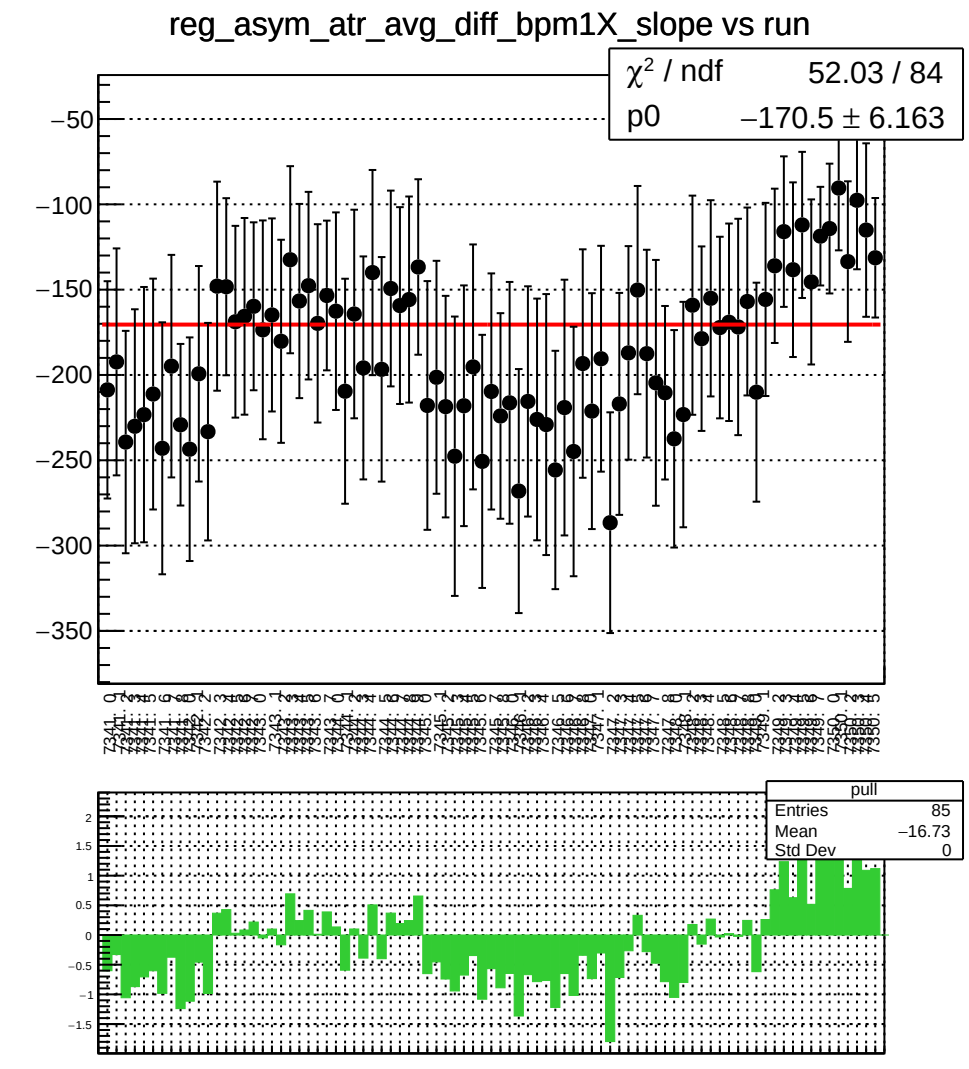

pull1D
Entries 85
Mean −0.0003263
Std Dev 0.3384

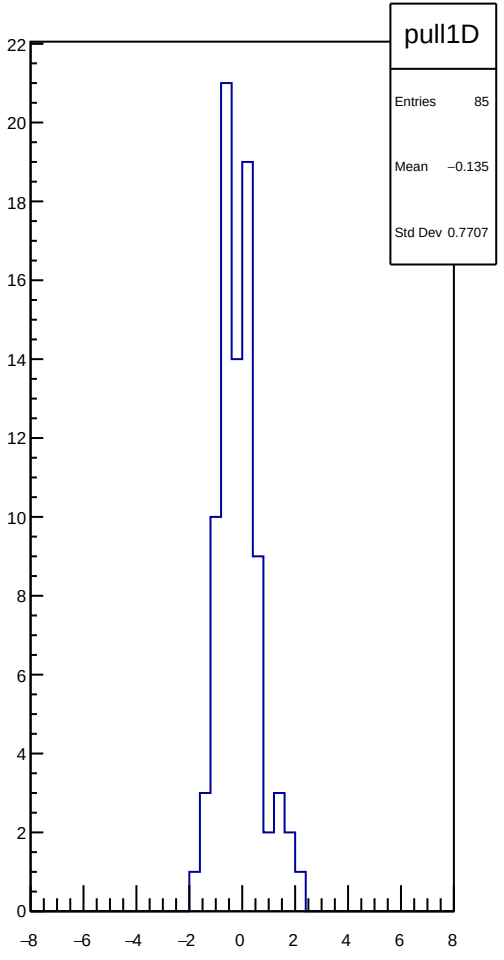

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.1 / 84
p0 −128.2 ± 5.178
−50
−100
−150
−200
−250
pull
Entries 85
Mean −4.919
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.0936
Std Dev 0.5876
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

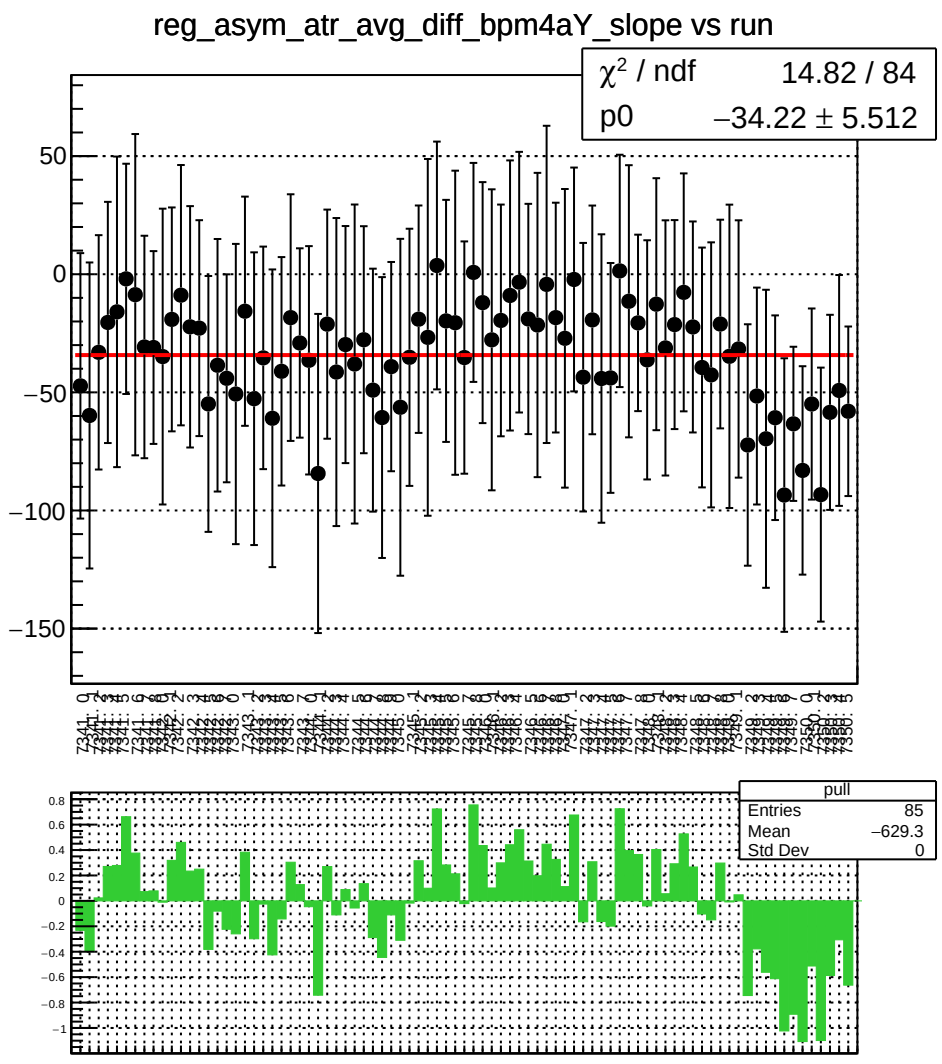

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.2 / 84
p0 −83.28 ± 5.128
pull
Entries 85
Mean −616.7
Std Dev 0

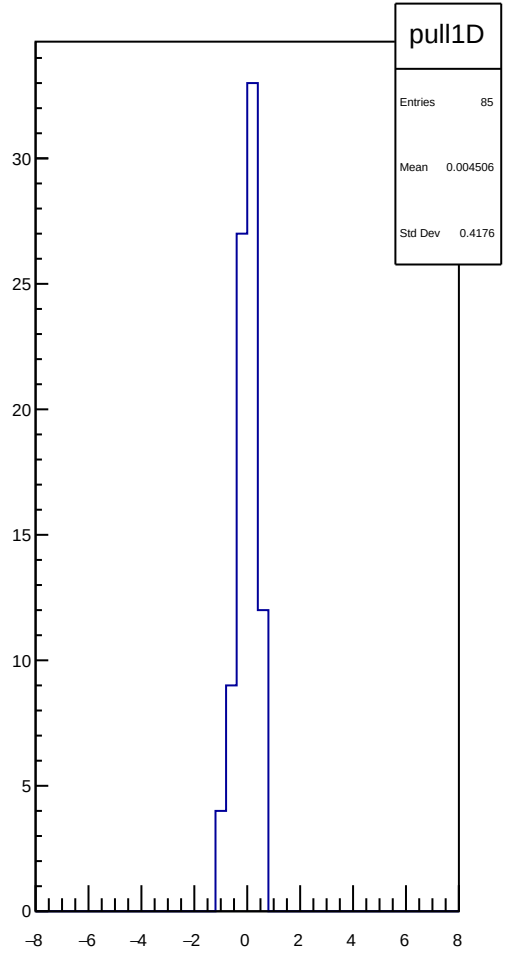

pull1D
Entries 85
Mean 0.005835
Std Dev 0.3629

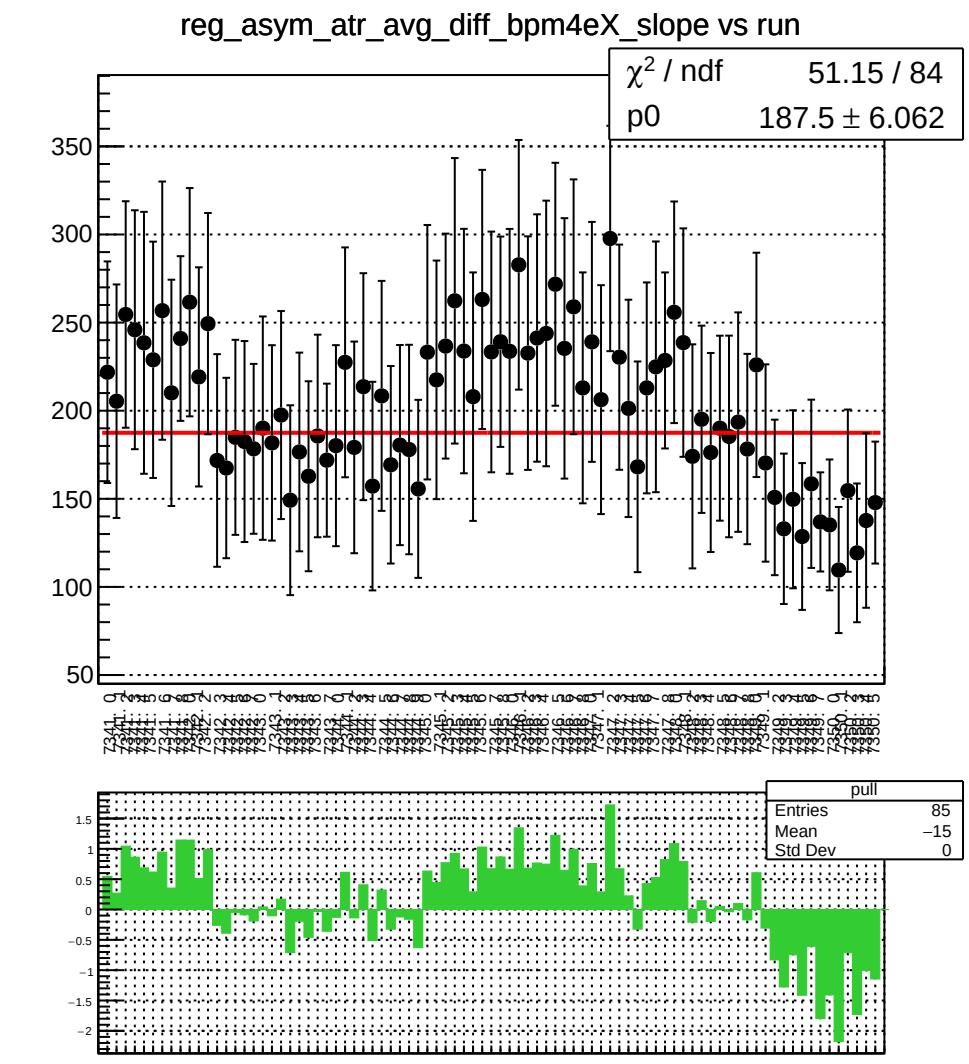

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 181.5 / 84
p0 110.5 ± 0.2296
pull
Entries 85
Mean 412.1
Std Dev 0
pull1D
Entries 85
Mean 0.04704
Std Dev 1.461

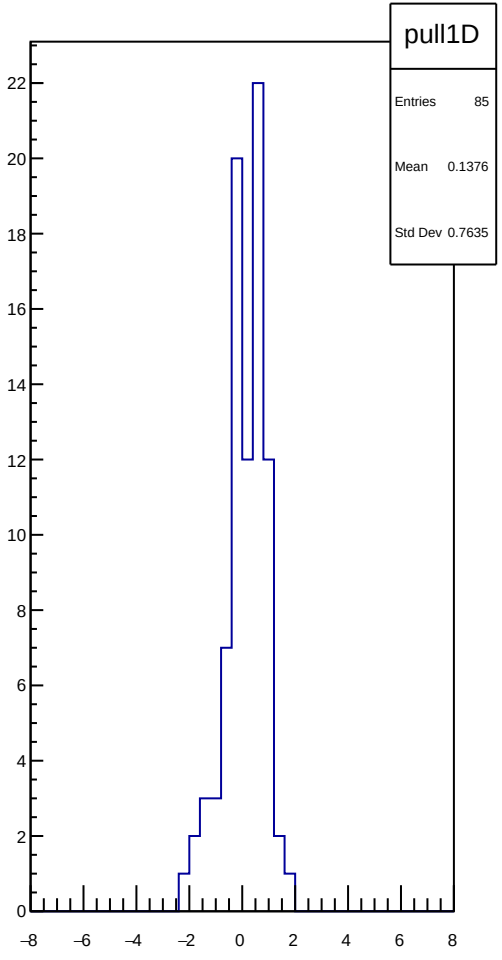

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 52.03 / 84
p0 −170.5 ± 6.163
pull
Entries 85
Mean −16.73
Std Dev 0

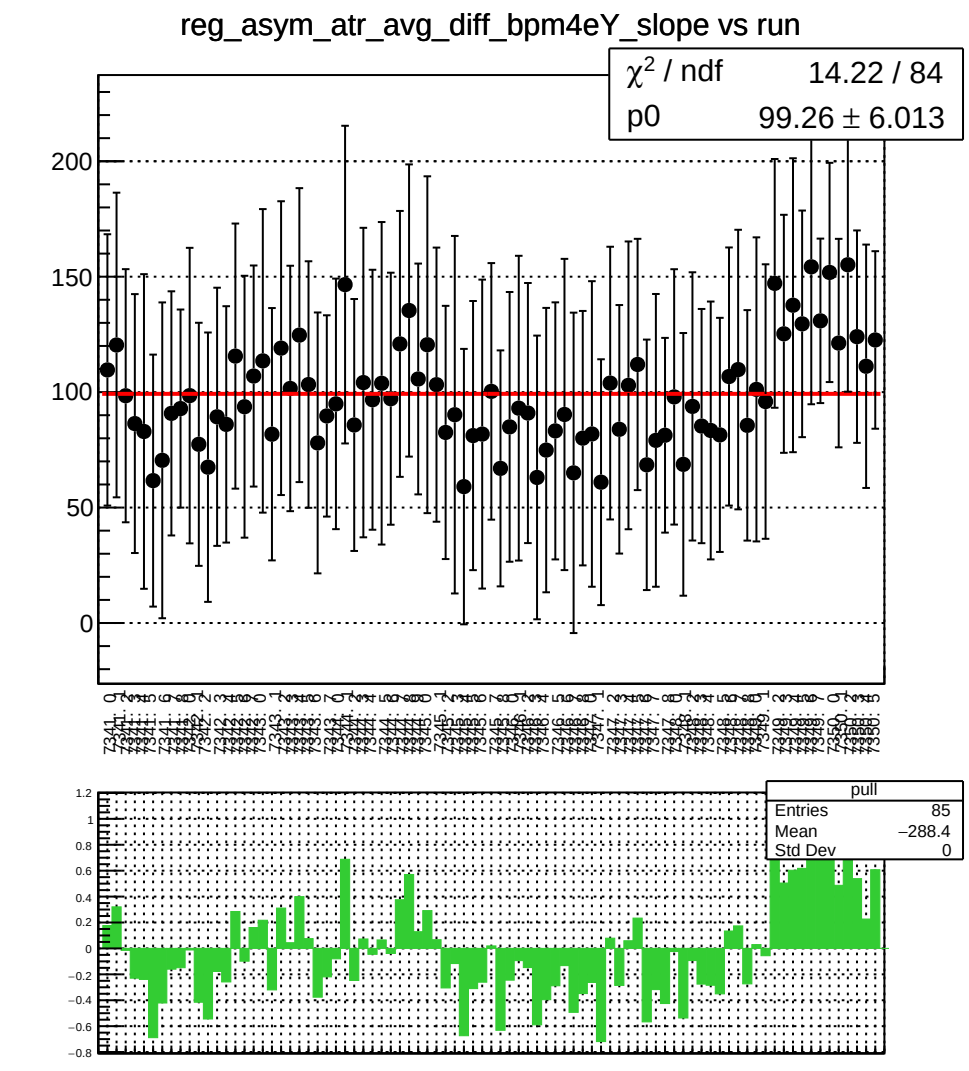

pull1D
Entries 85
Mean −0.135
Std Dev 0.7707

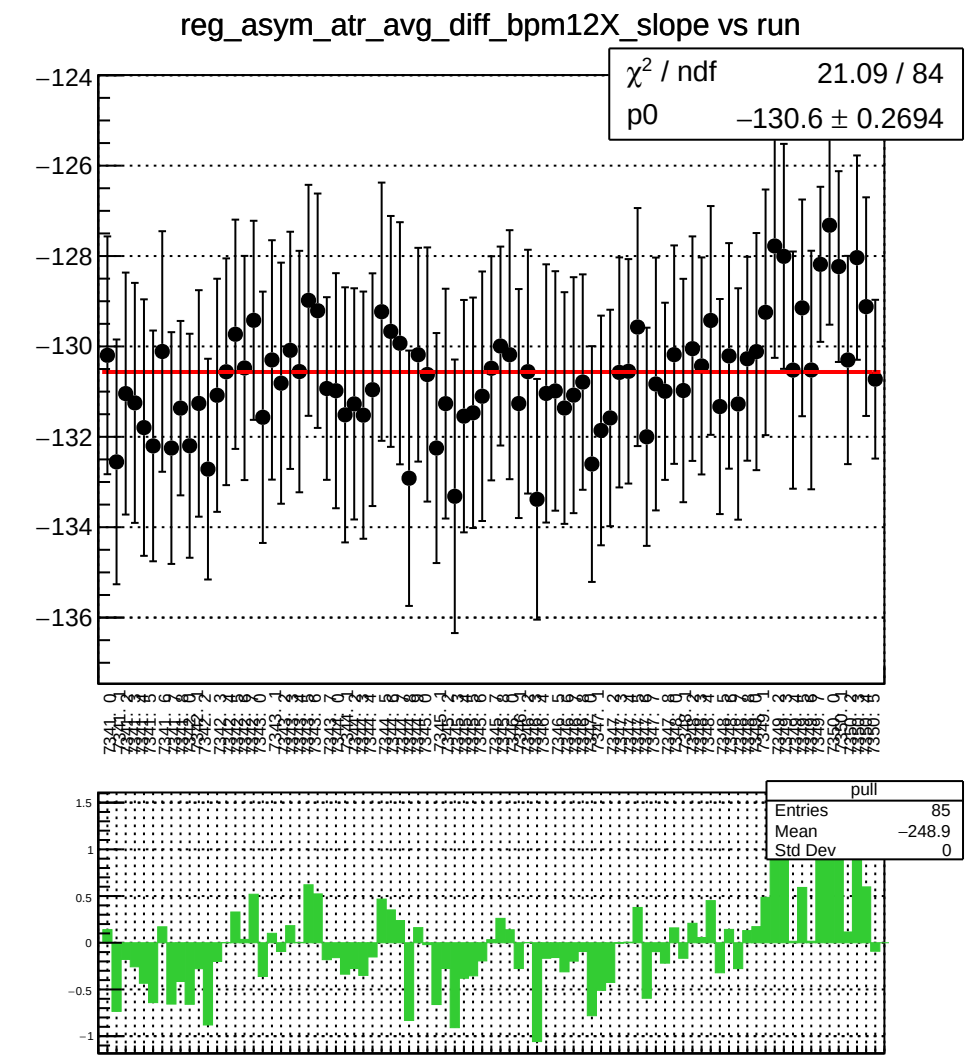

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.82 / 84
p0 −34.22 ± 5.512
50
0
−50
−100
−150
pull
Entries 85
Mean −629.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

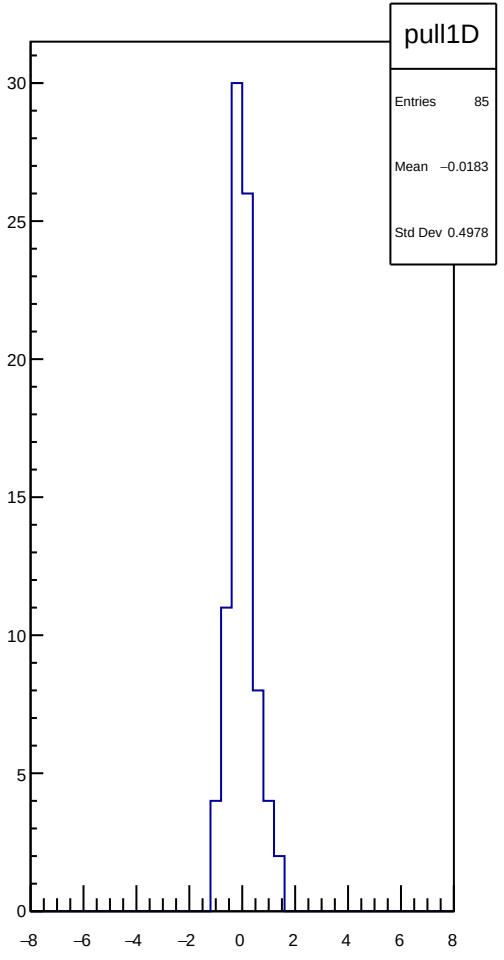

pull1D
Entries 85
Mean 0.004506
Std Dev 0.4176
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

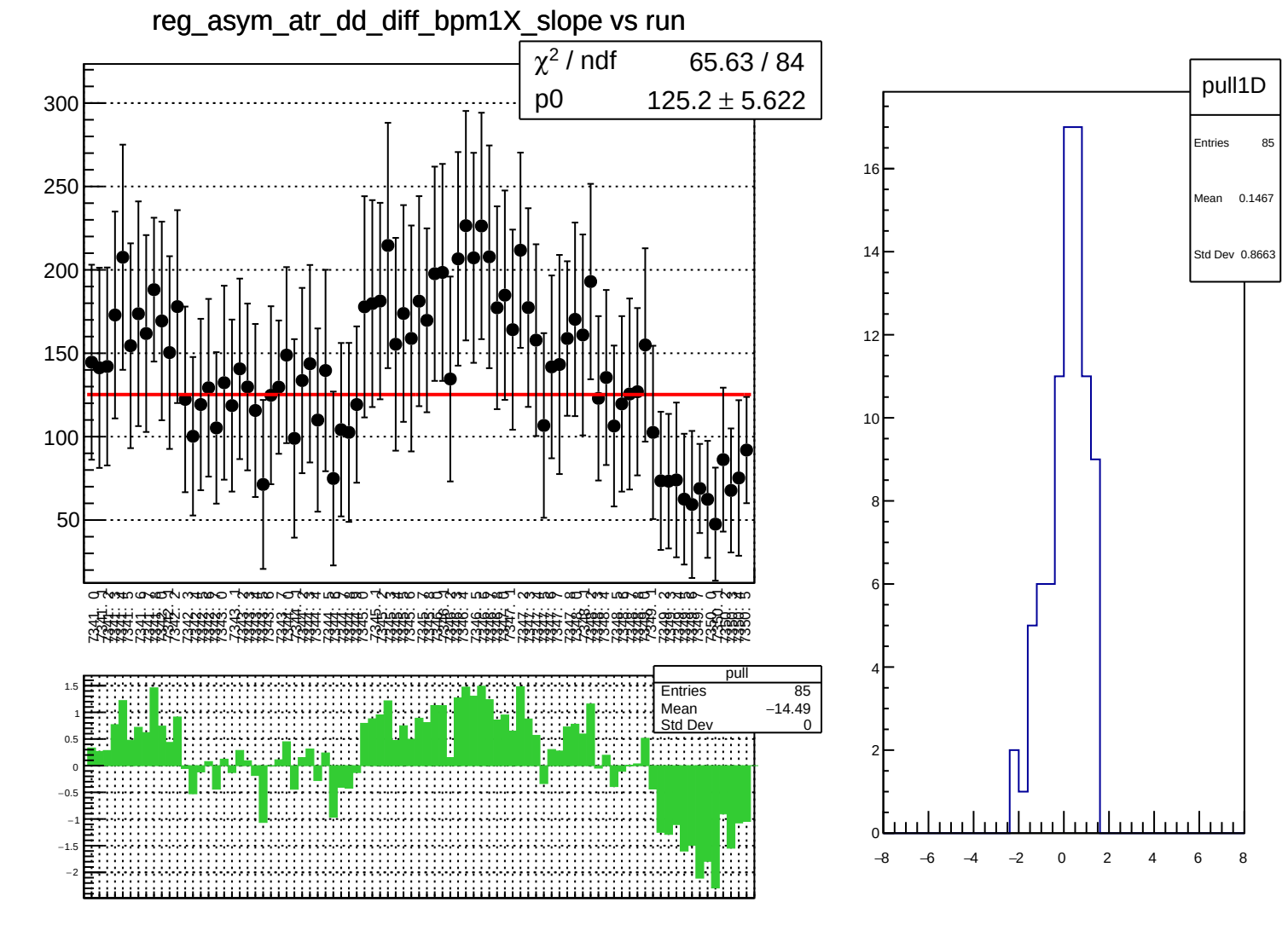

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.15 / 84
p0 187.5 ± 6.062
pull
Entries 85
Mean −15
Std Dev 0

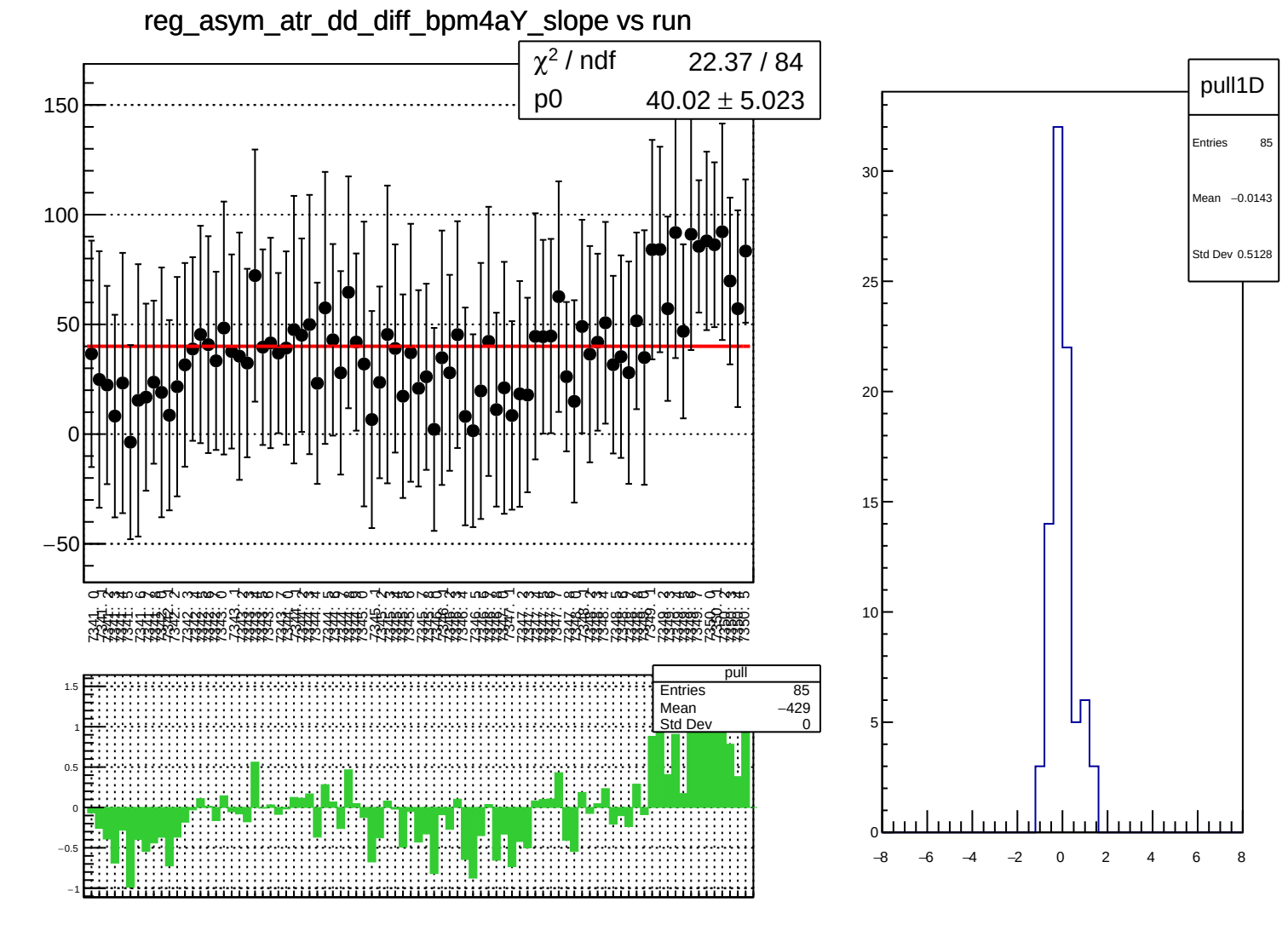

pull1D
Entries 85
Mean 0.1376
Std Dev 0.7635

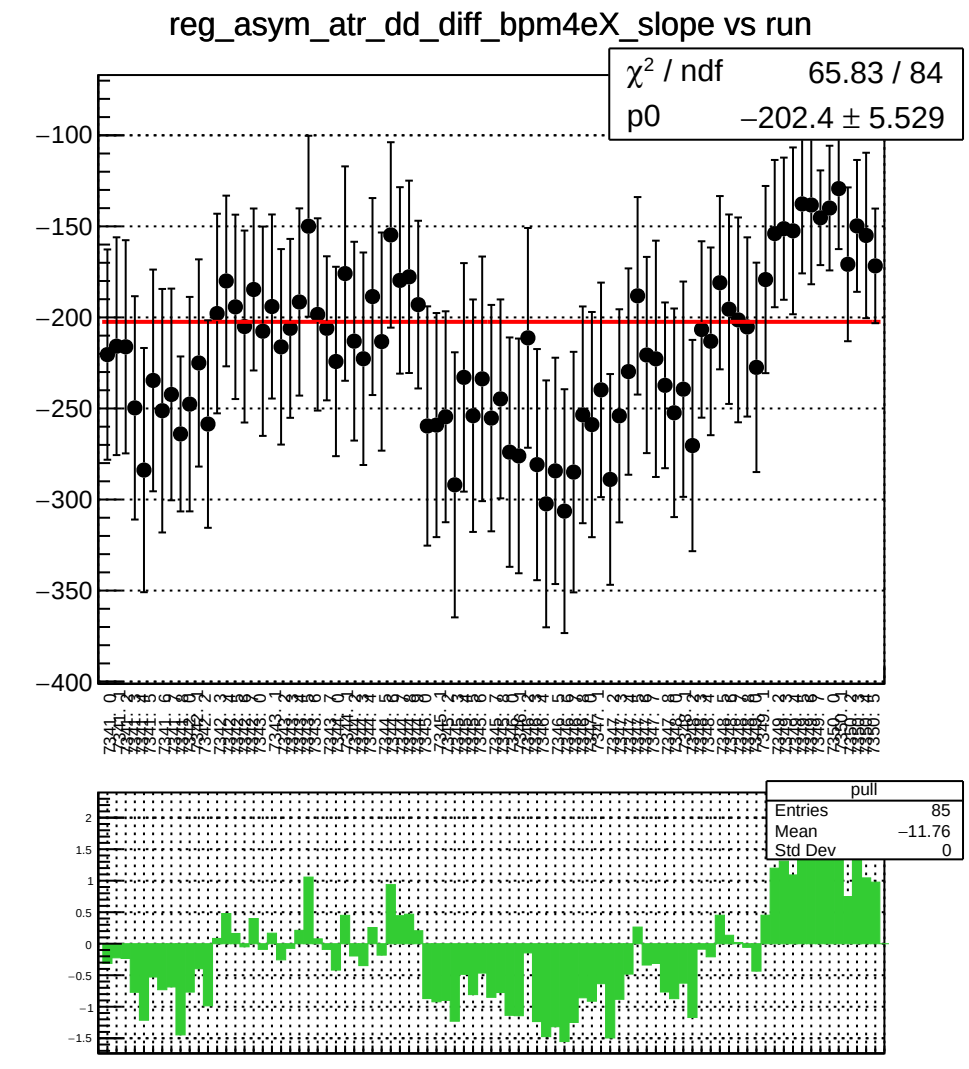

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.22 / 84
p0 99.26 ± 6.013
pull
Entries 85
Mean −288.4
Std Dev 0
pull1D
Entries 85
Mean −0.009993
Std Dev 0.4088

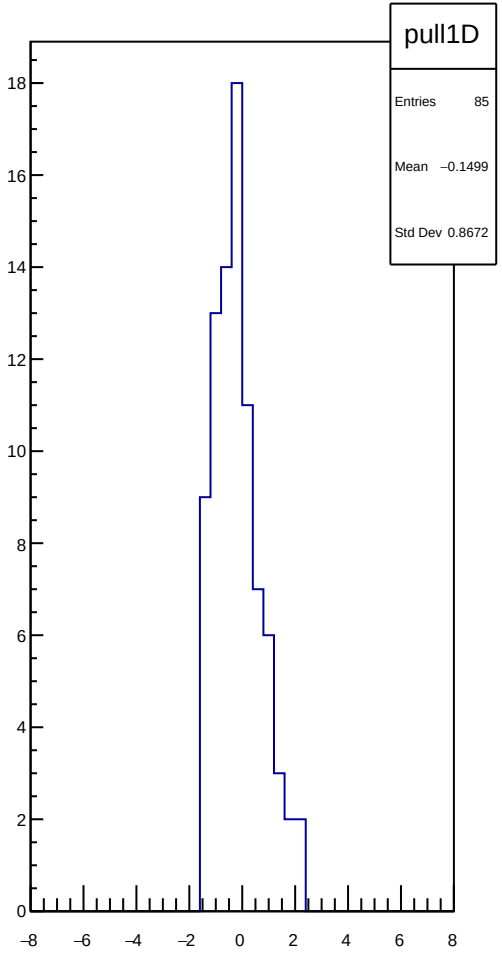

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 21.09 / 84
p0 −130.6 ± 0.2694
pull
Entries 85
Mean −248.9
Std Dev 0

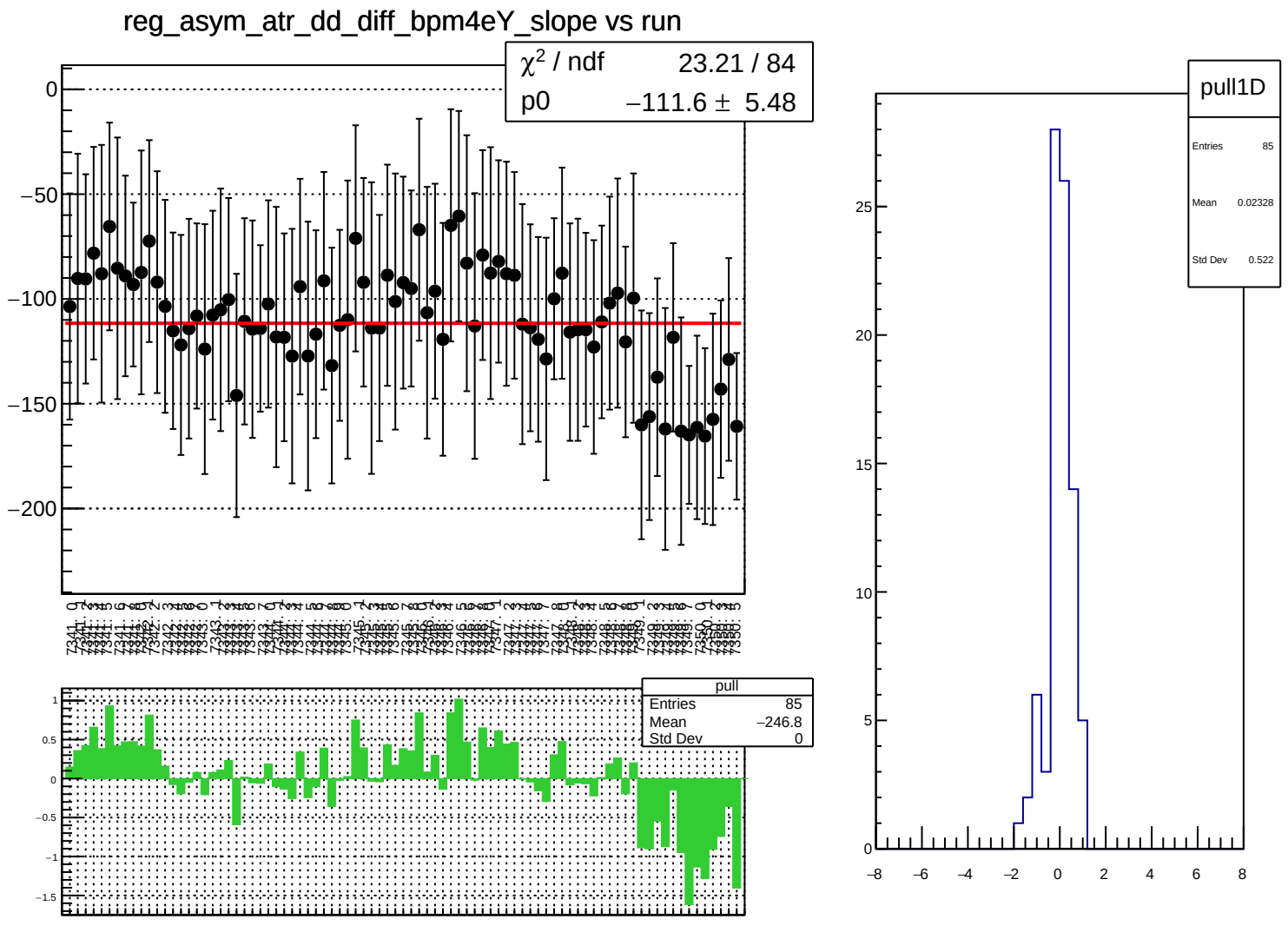

pull1D
Entries 85
Mean −0.0183
Std Dev 0.4978

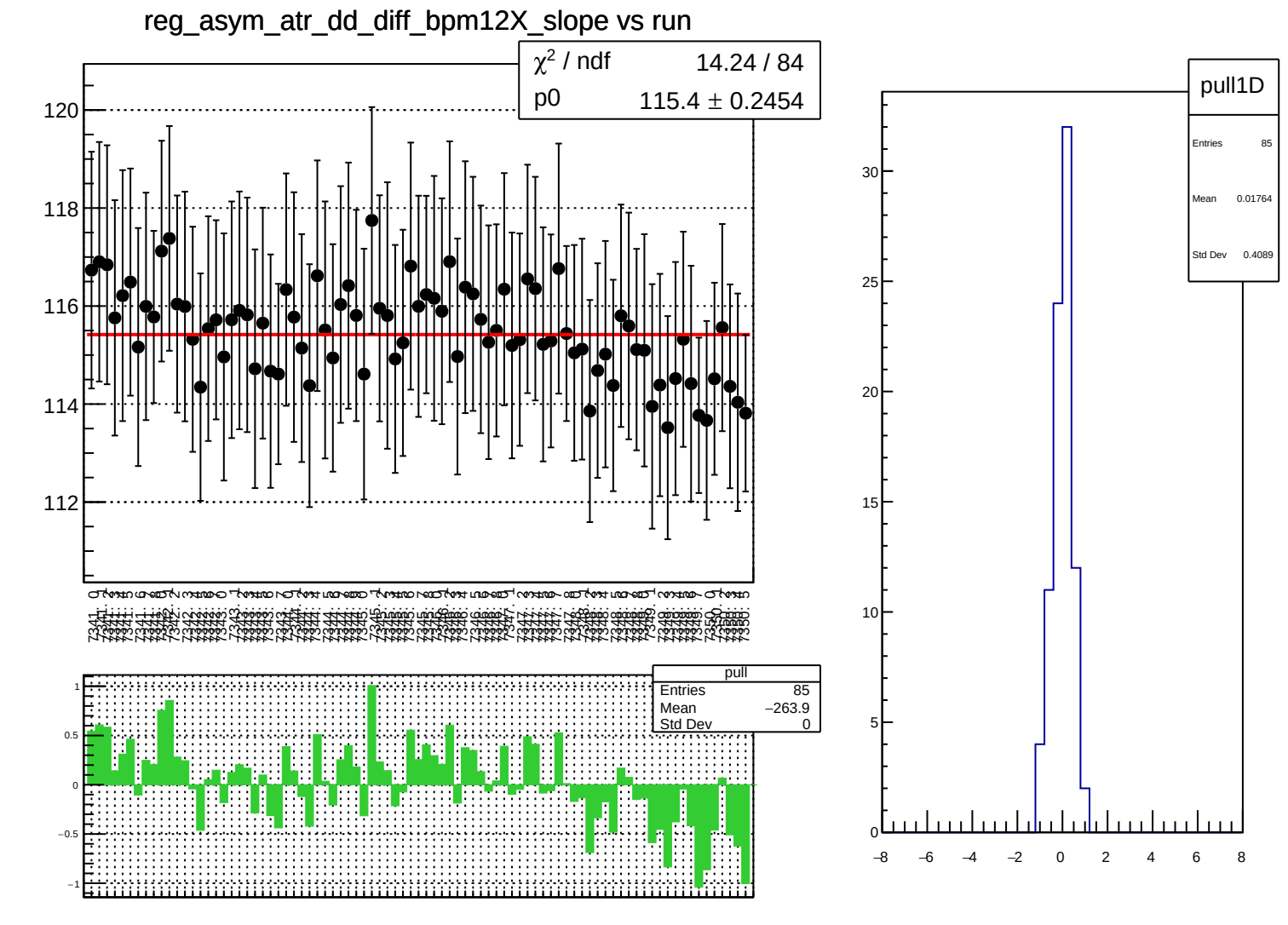

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 65.63 / 84
p0 125.2 ± 5.622
pull
Entries 85
Mean −14.49
Std Dev 0
pull1D
Entries 85
Mean 0.1467
Std Dev 0.8663

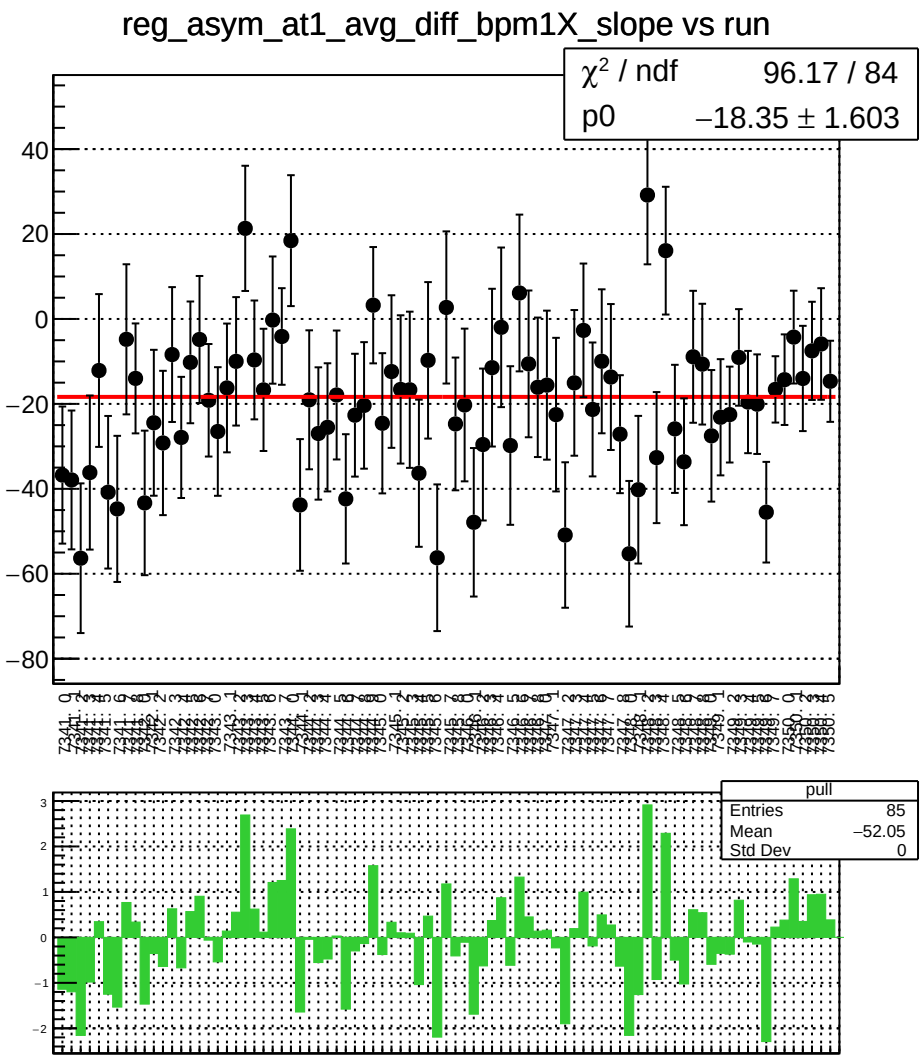

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.37 / 84
p0 40.02 ± 5.023
pull
Entries 85
Mean −429
Std Dev 0
pull1D
Entries 85
Mean −0.0143
Std Dev 0.5128

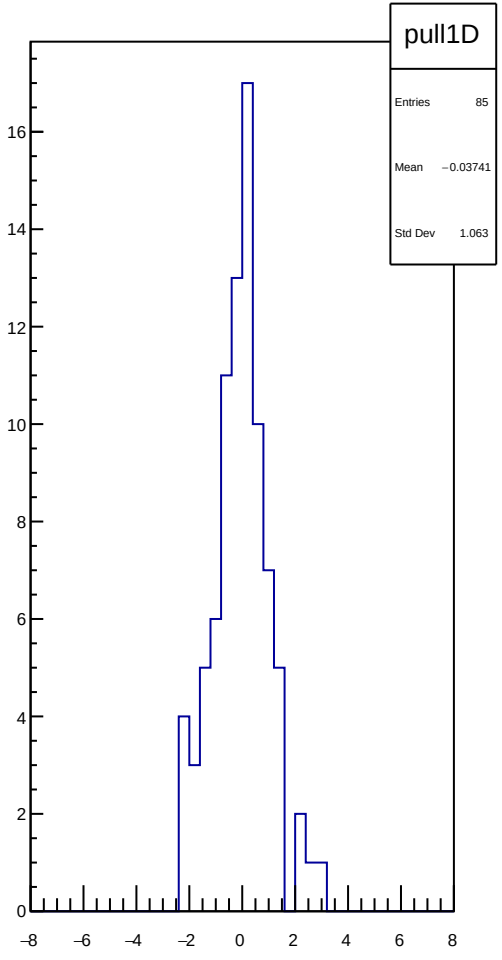

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.83 / 84
p0 −202.4 ± 5.529
pull
Entries 85
Mean −11.76
Std Dev 0

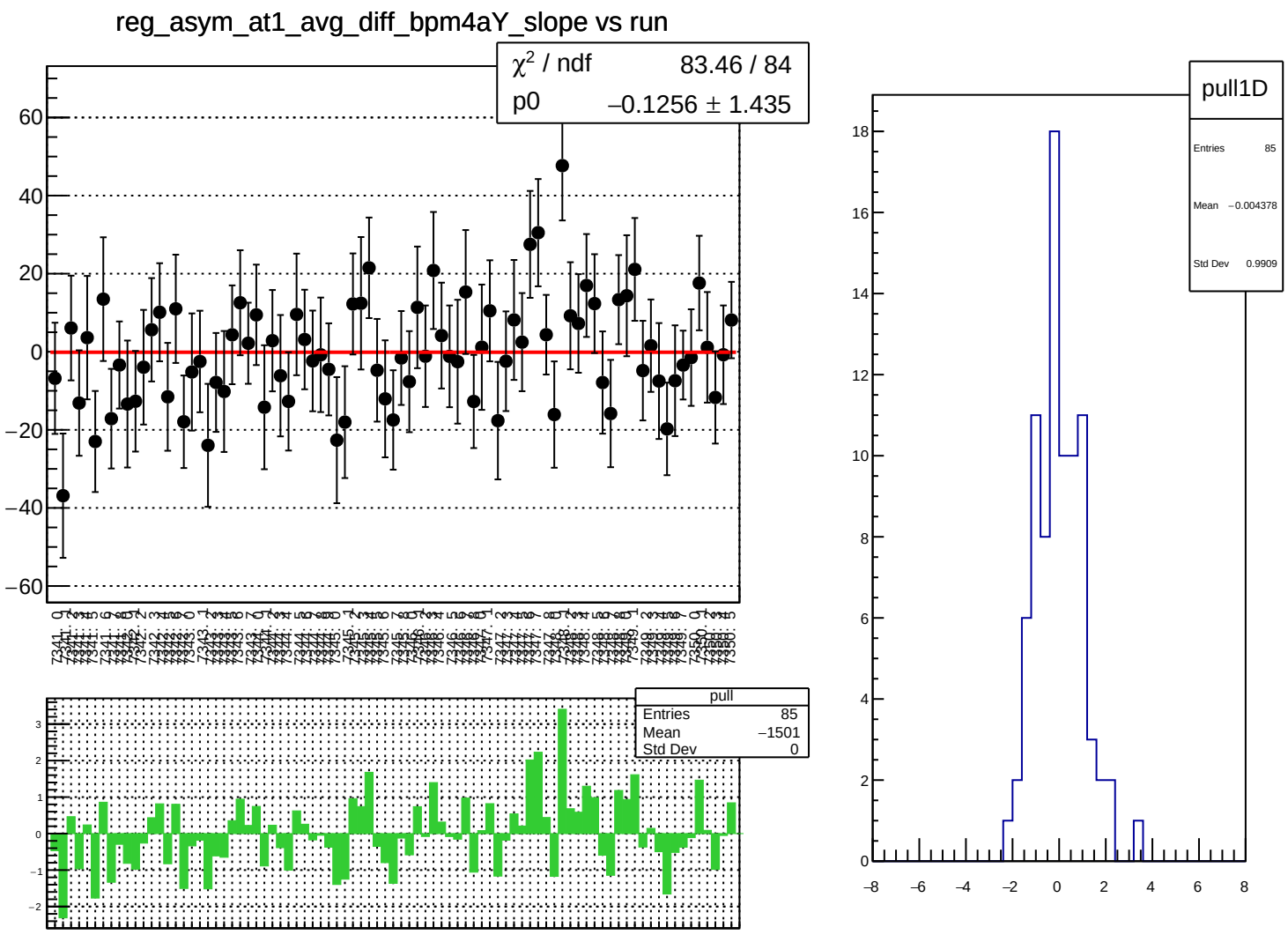

pull1D
Entries 85
Mean −0.1499
Std Dev 0.8672

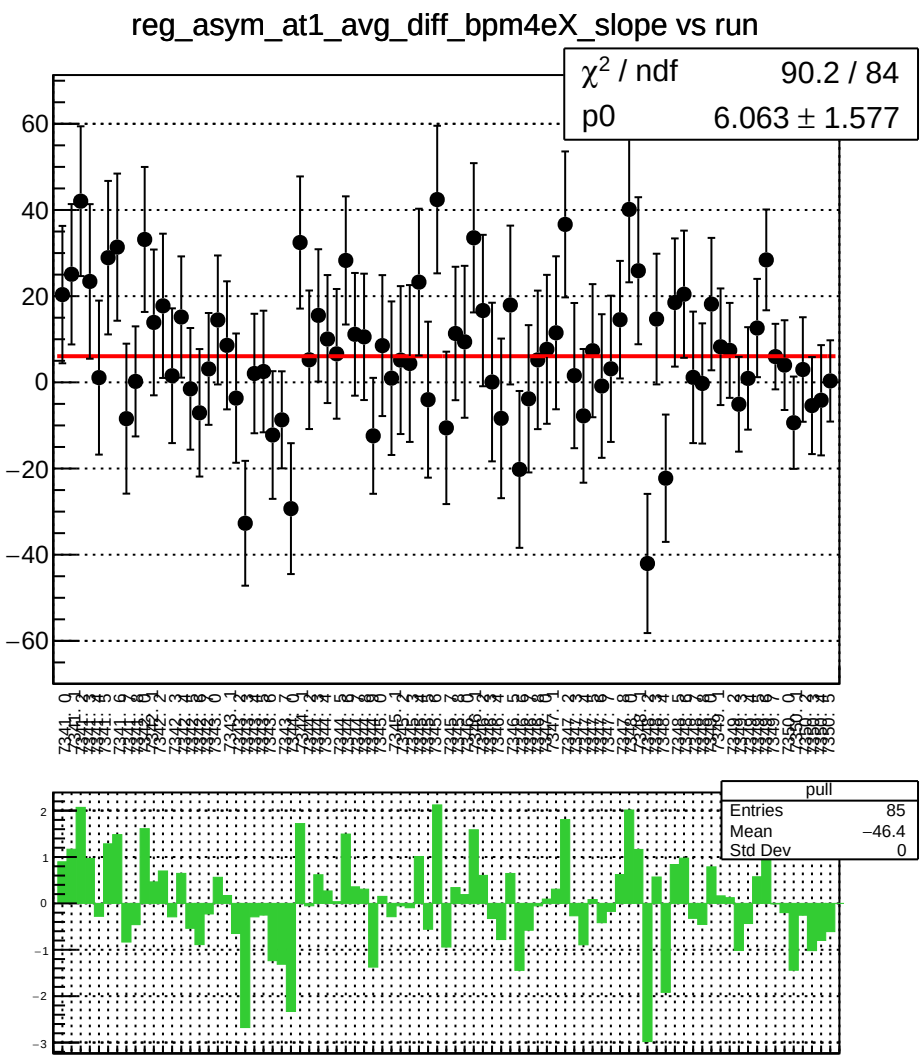

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.21 / 84
p0 −111.6 ± 5.48
pull
Entries 85
Mean −246.8
Std Dev 0
pull1D
Entries 85
Mean 0.02328
Std Dev 0.522

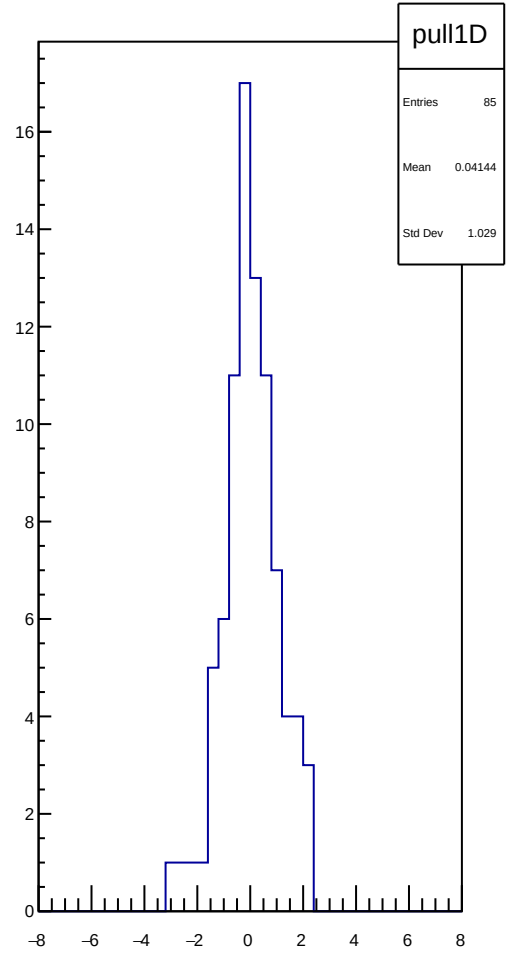

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 14.24 / 84
p0 115.4 ± 0.2454
120
118
116
114
112
pull
Entries 85
Mean −263.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean 0.01764
Std Dev 0.4089
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

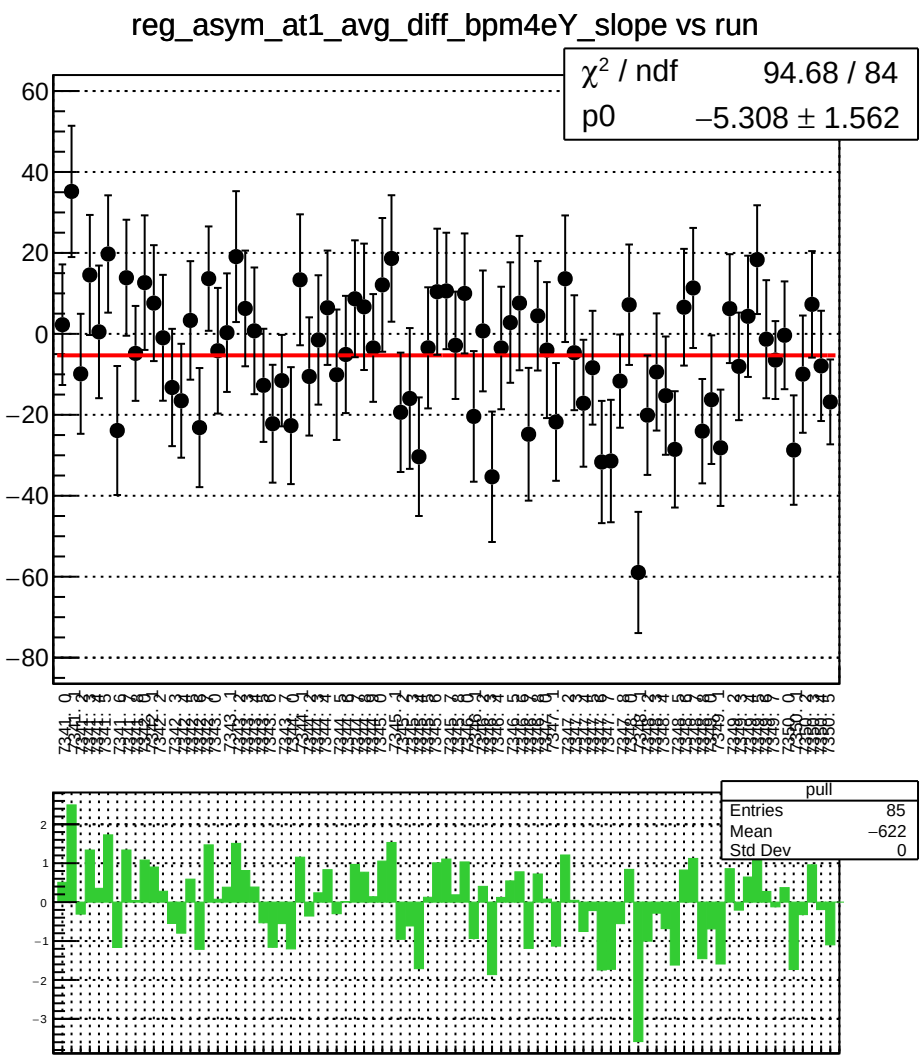

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 96.17 / 84
p0 −18.35 ± 1.603
pull
Entries 85
Mean −52.05
Std Dev 0

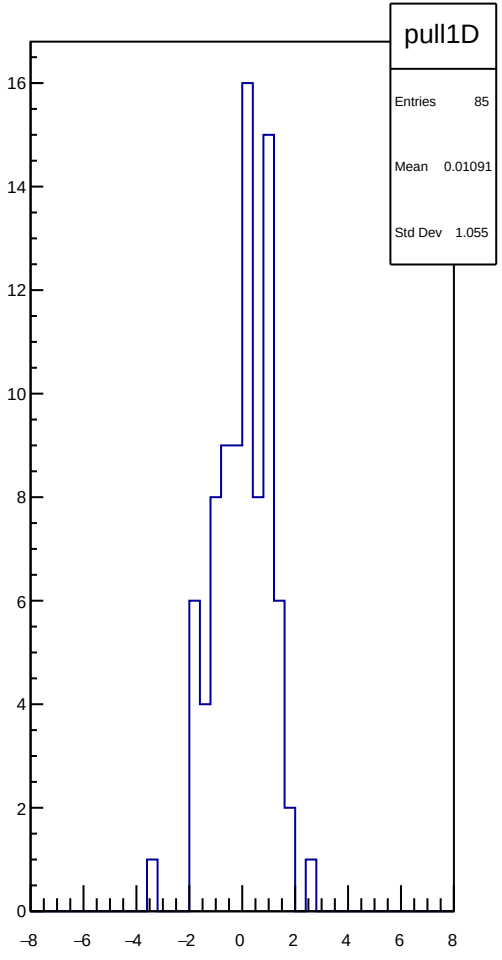

pull1D
Entries 85
Mean −0.03741
Std Dev 1.063

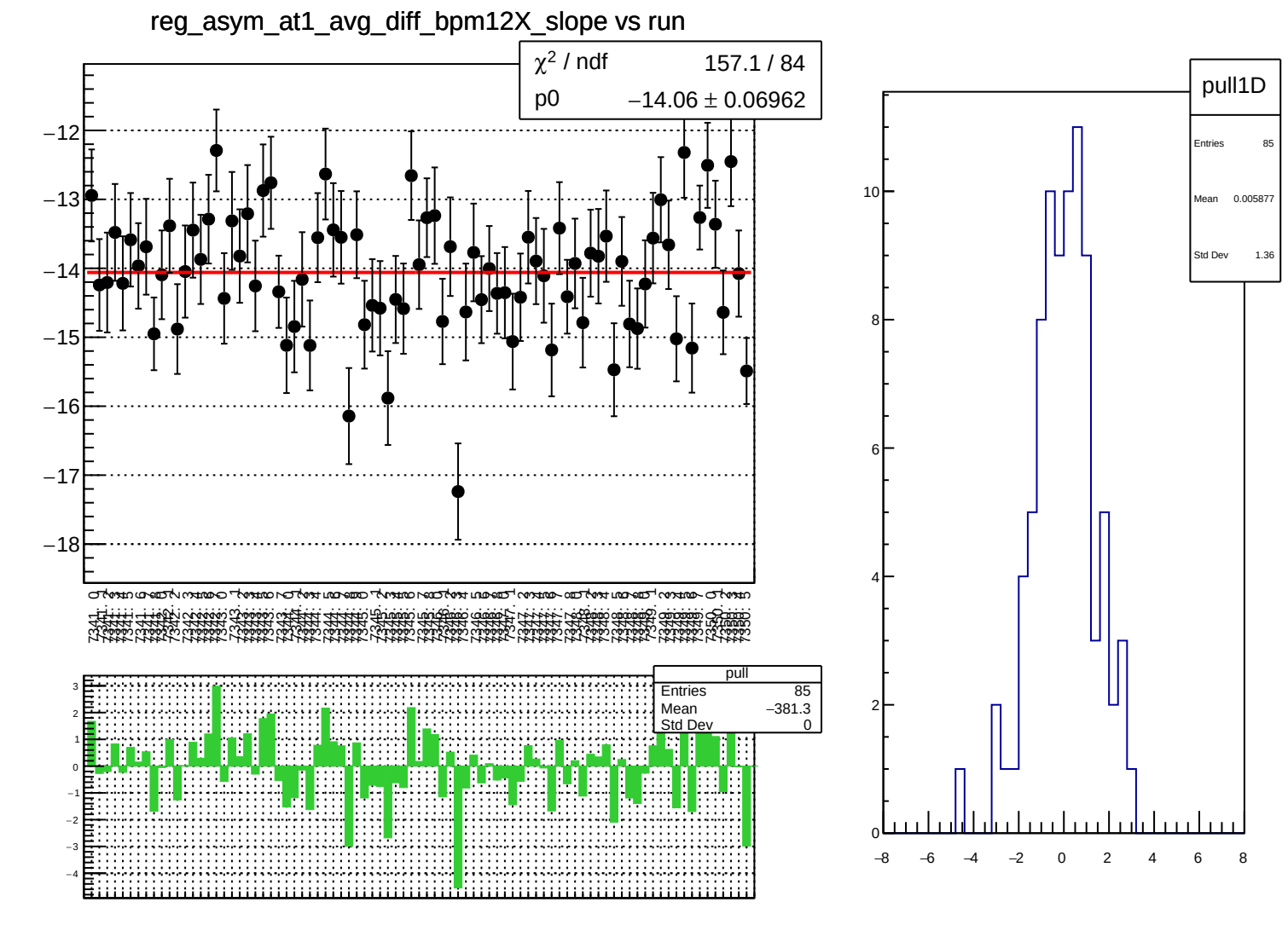

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.46 / 84
p0 −0.1256 ± 1.435
pull
Entries 85
Mean −1501
Std Dev 0
pull1D
Entries 85
Mean −0.004378
Std Dev 0.9909

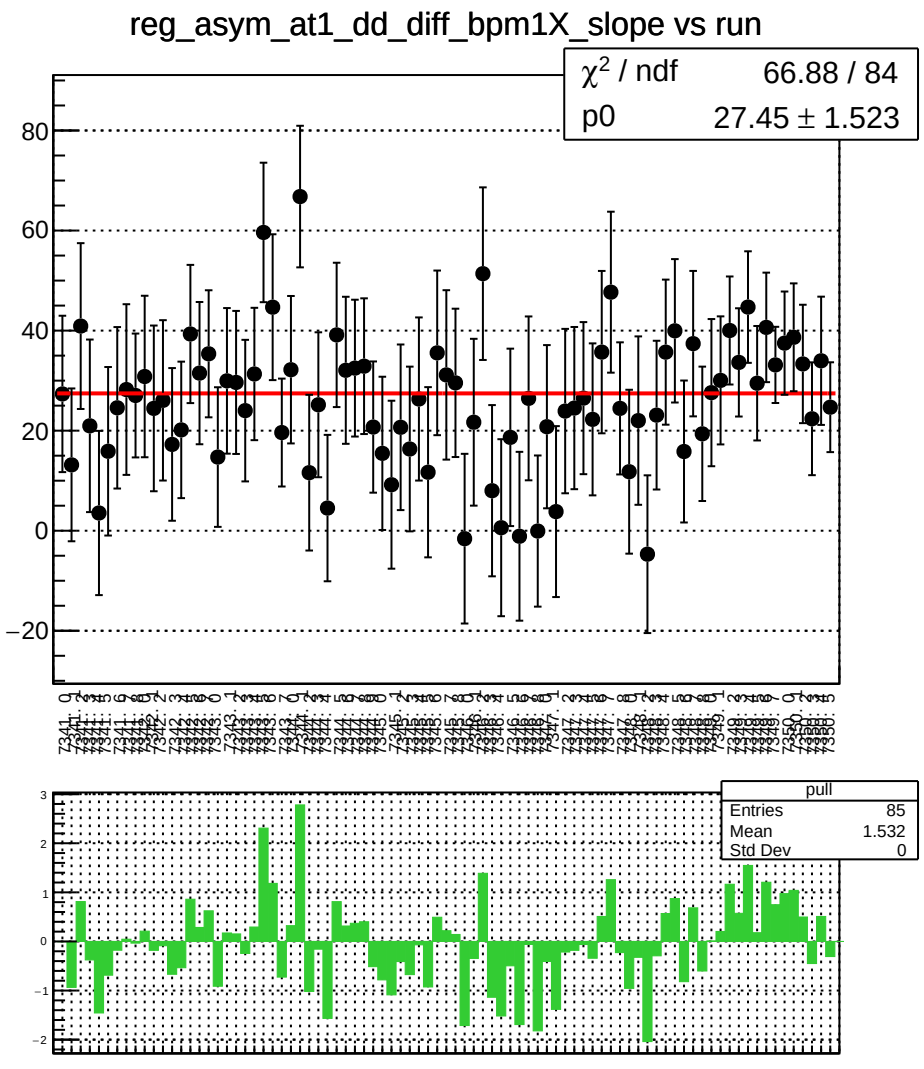

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.2 / 84
p0 6.063 ± 1.577
pull
Entries 85
Mean −46.4
Std Dev 0

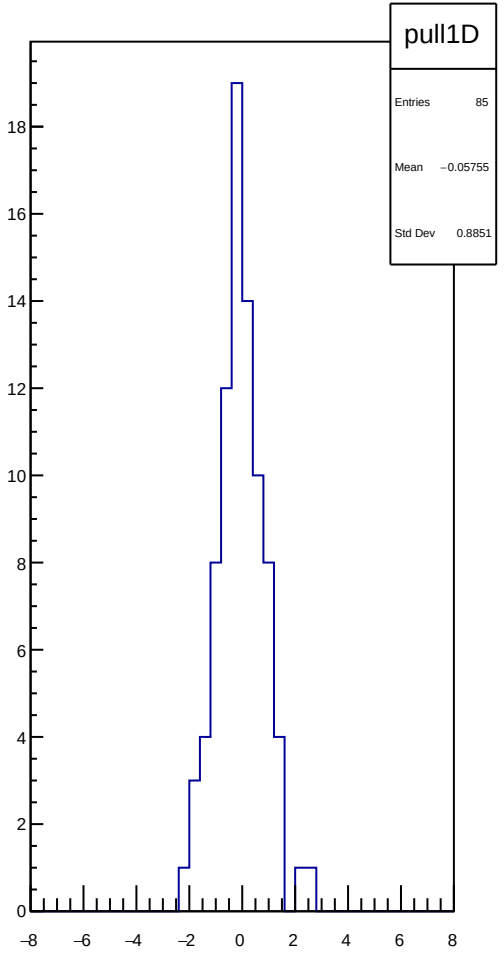

pull1D
Entries 85
Mean 0.04144
Std Dev 1.029

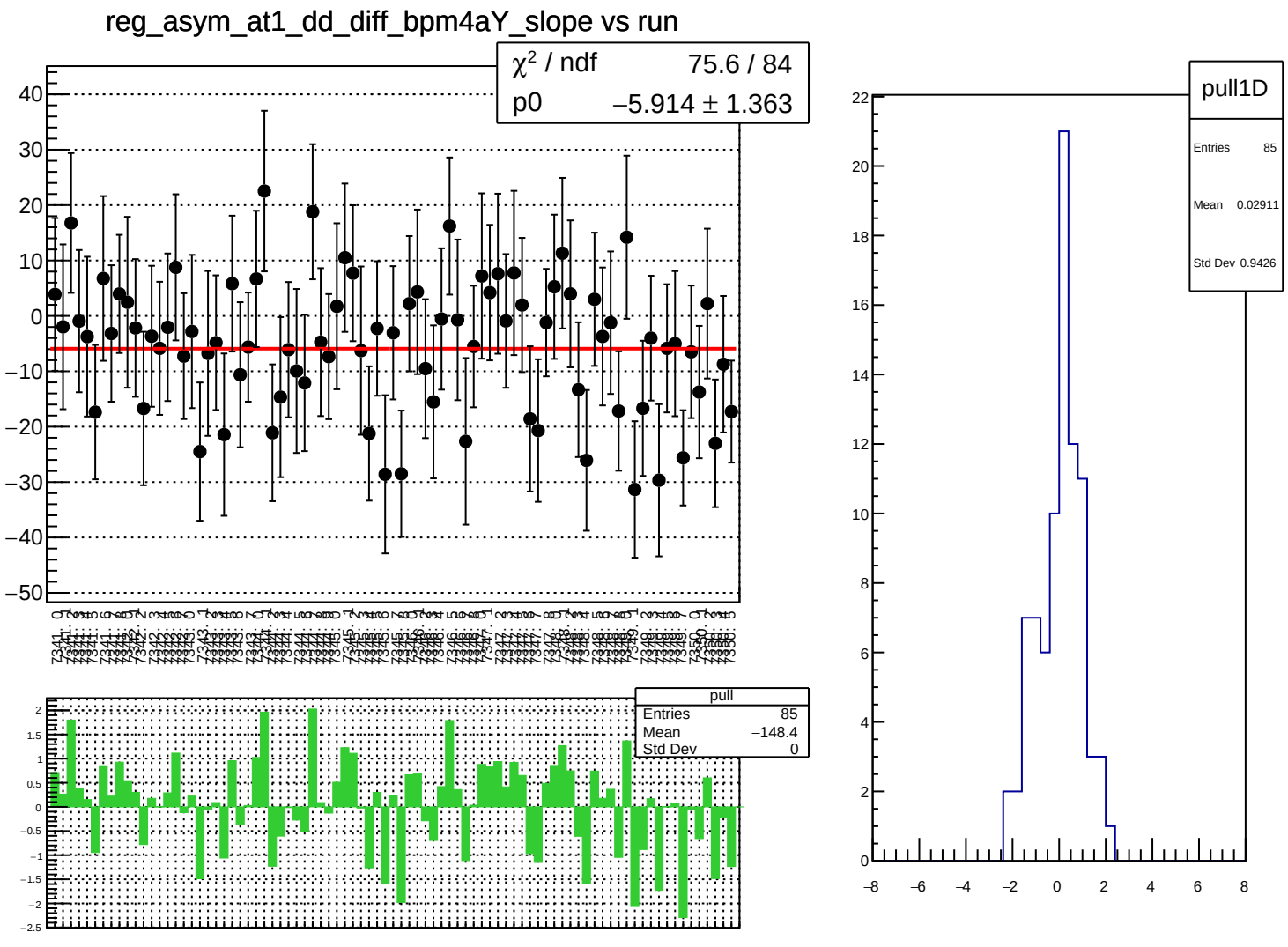

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 94.68 / 84
p0 −5.308 ± 1.562
pull
Entries 85
Mean −622
Std Dev 0

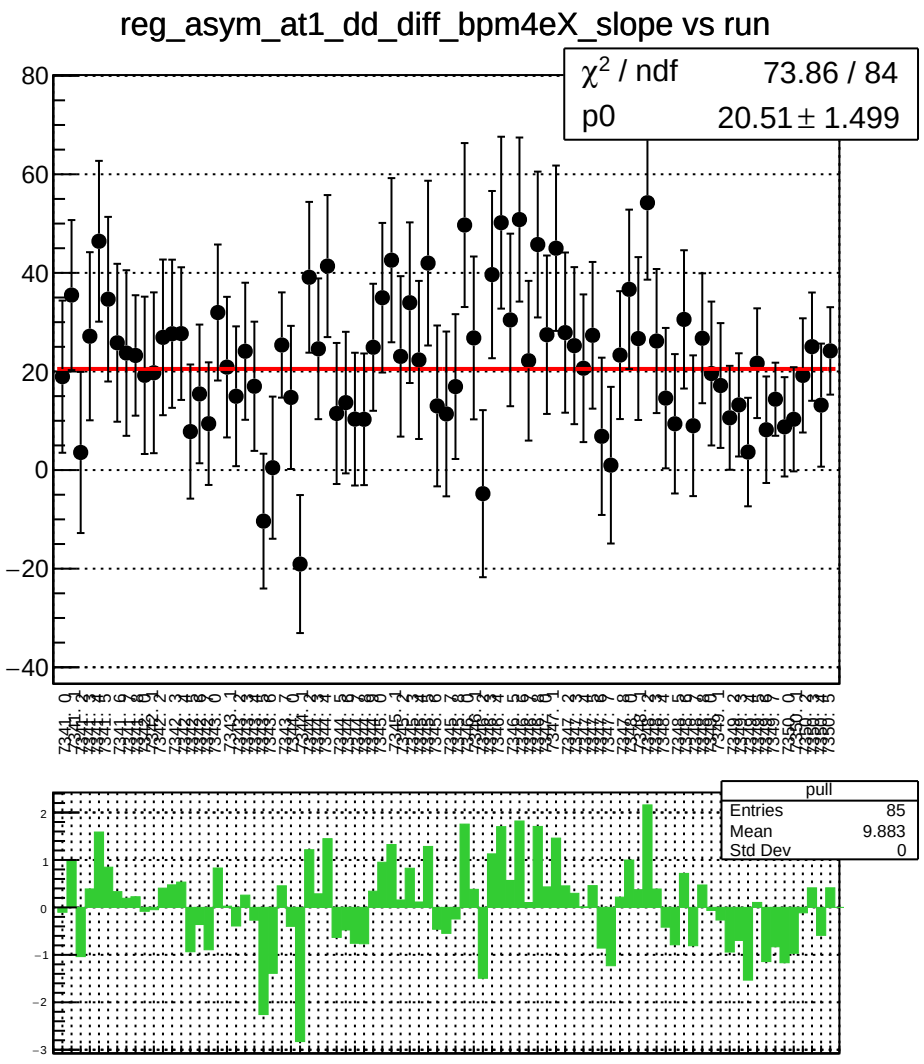

pull1D
Entries 85
Mean 0.01091
Std Dev 1.055

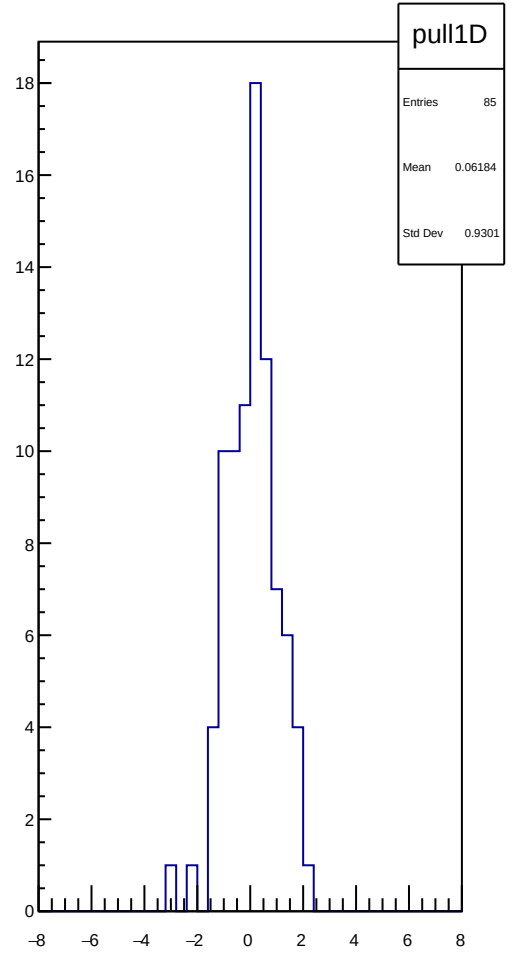

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 157.1 / 84
p0 −14.06 ± 0.06962
pull
Entries 85
Mean −381.3
Std Dev 0
pull1D
Entries 85
Mean 0.005877
Std Dev 1.36

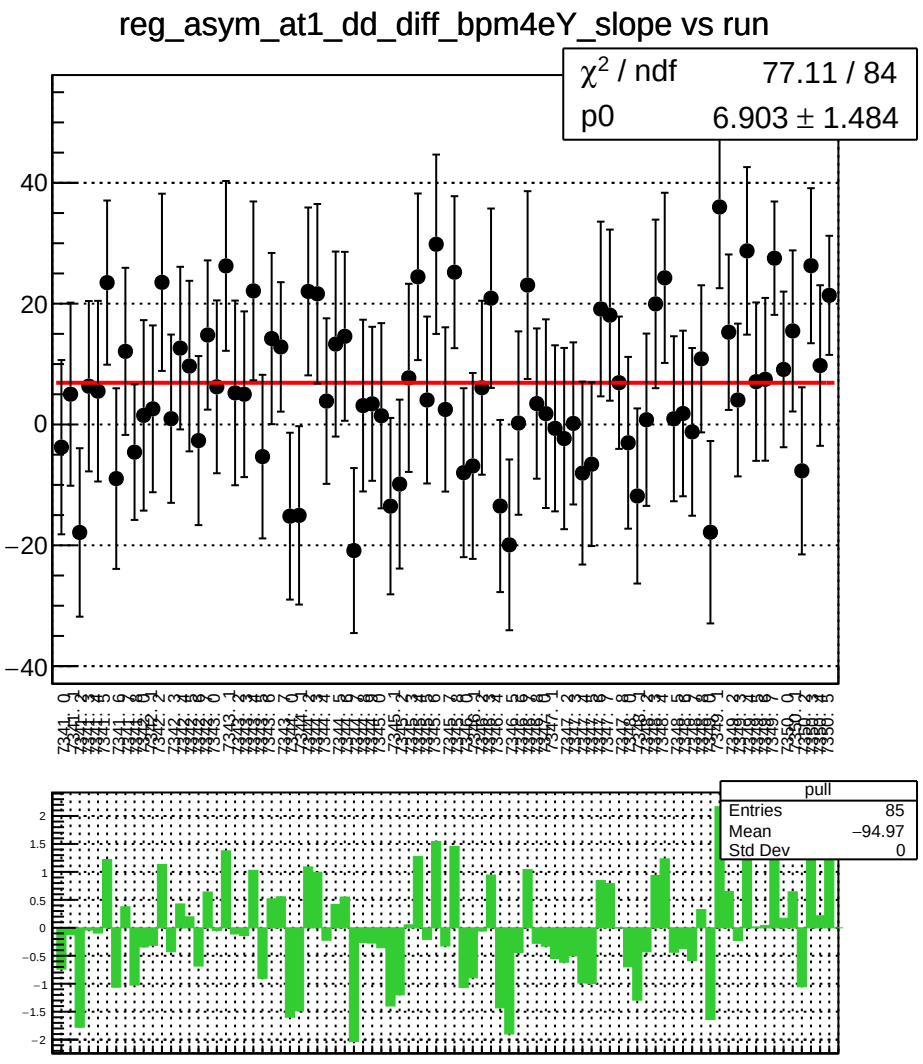

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 66.88 / 84
p0 27.45 ± 1.523
pull
Entries 85
Mean 1.532
Std Dev 0

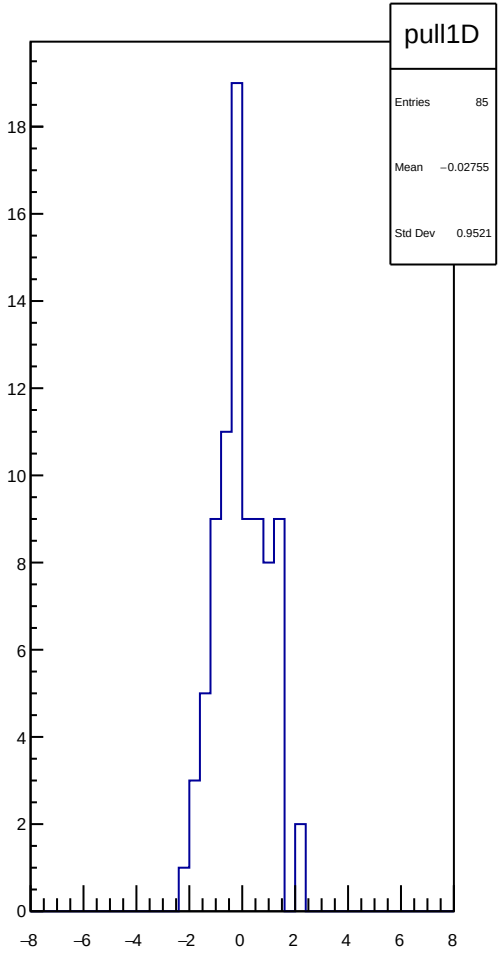

pull1D
Entries 85
Mean −0.05755
Std Dev 0.8851

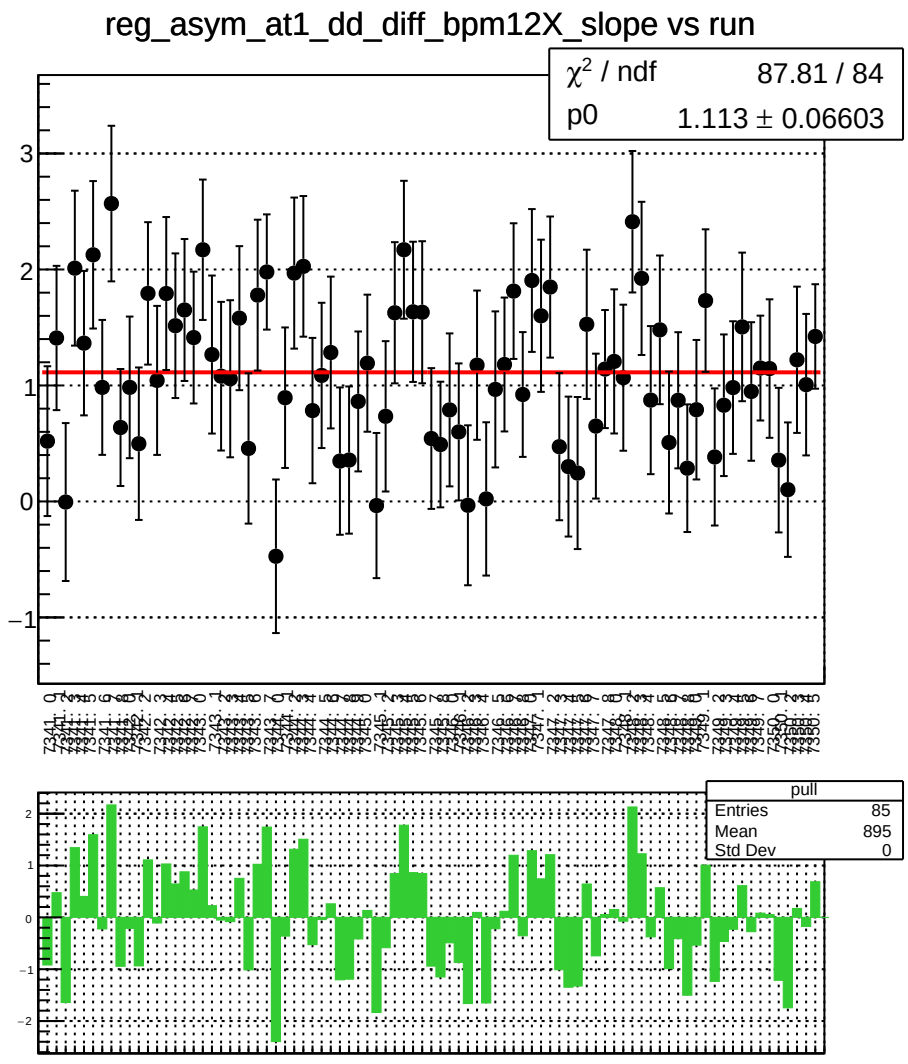

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.6 / 84
p0 −5.914 ± 1.363
pull
Entries 85
Mean −148.4
Std Dev 0
pull1D
Entries 85
Mean 0.02911
Std Dev 0.9426

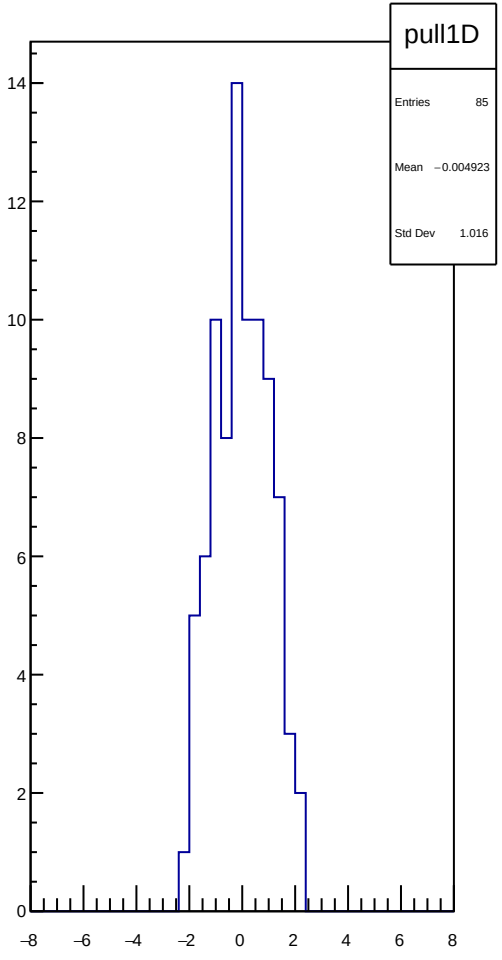

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.86 / 84
p0 20.51 ± 1.499
pull
Entries 85
Mean 9.883
Std Dev 0

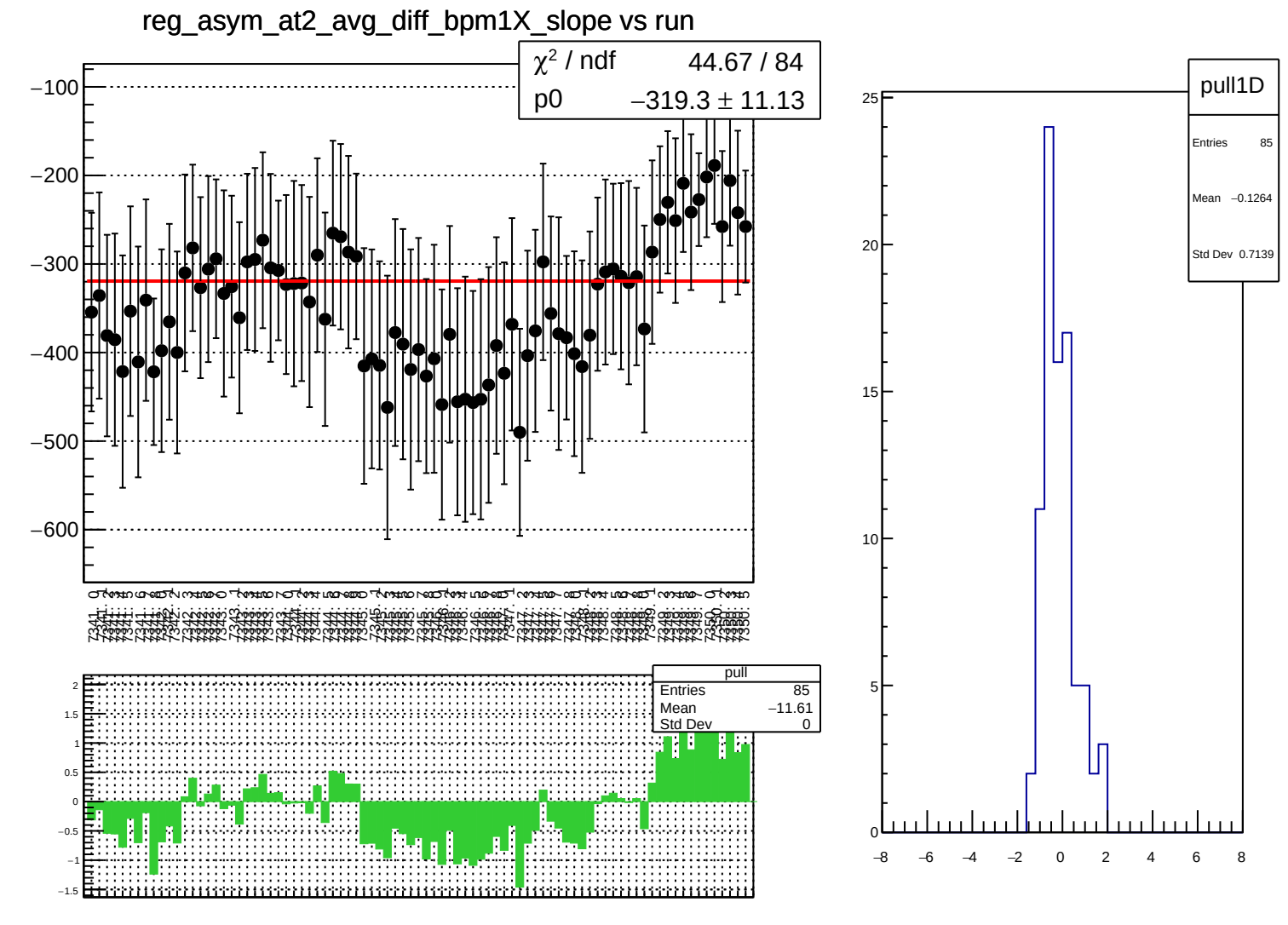

pull1D
Entries 85
Mean 0.06184
Std Dev 0.9301

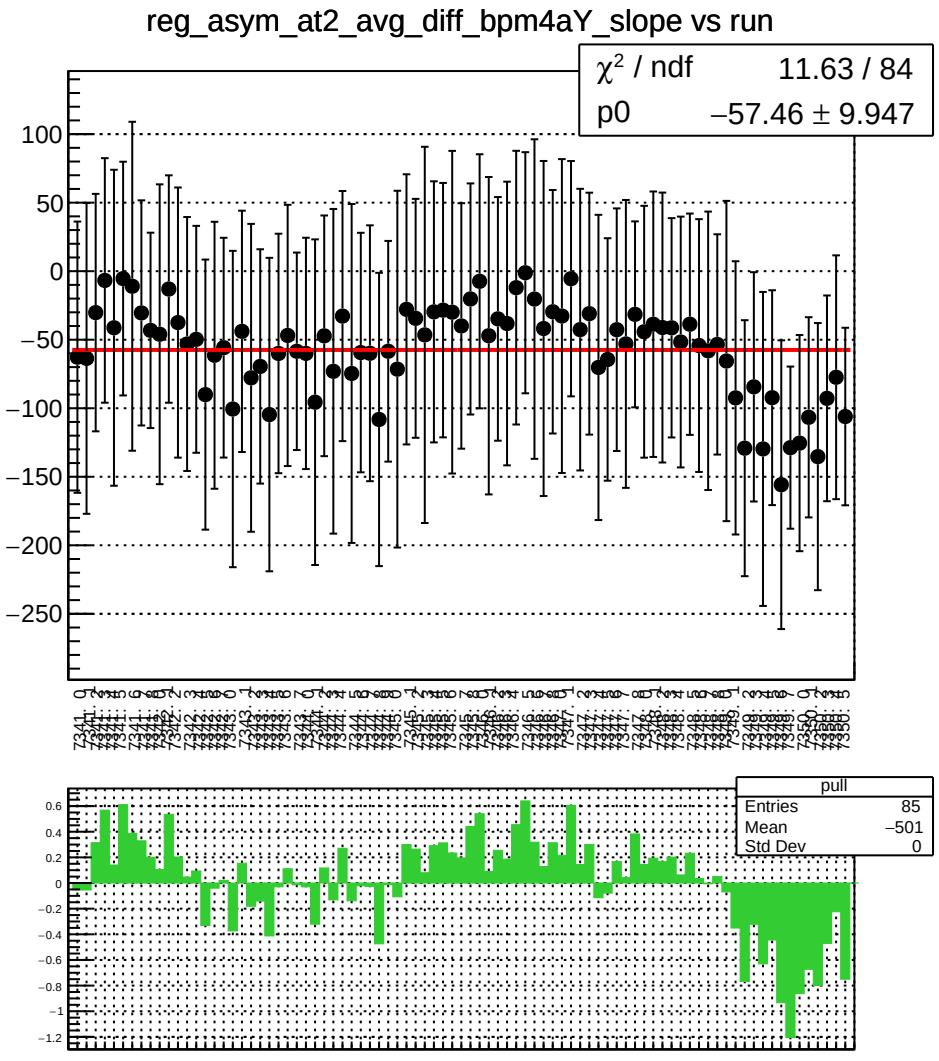

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.11 / 84
p0 6.903 ± 1.484
pull
Entries 85
Mean −94.97
Std Dev 0

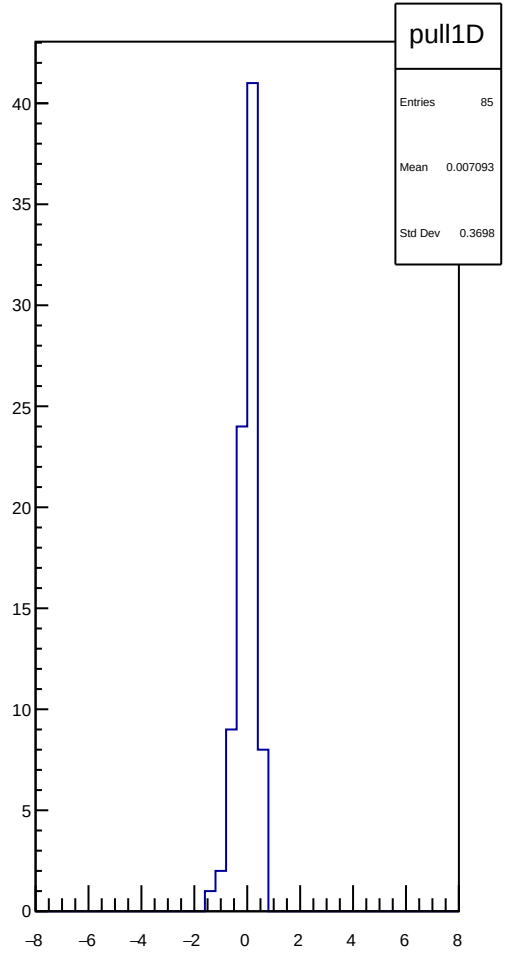

pull1D
Entries 85
Mean −0.02755
Std Dev 0.9521

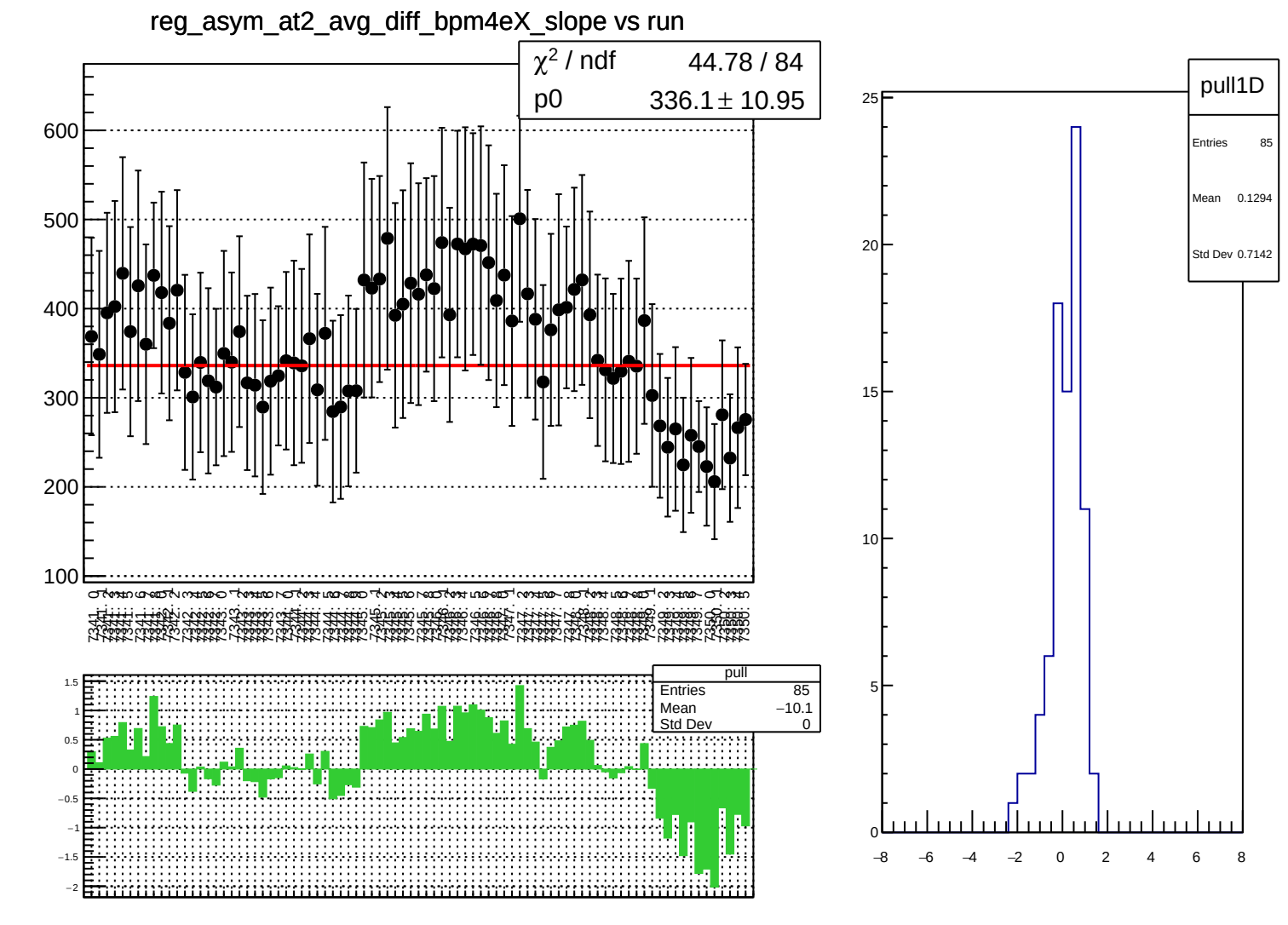

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 87.81 / 84
p0 1.113 ± 0.06603
pull
Entries 85
Mean 895
Std Dev 0

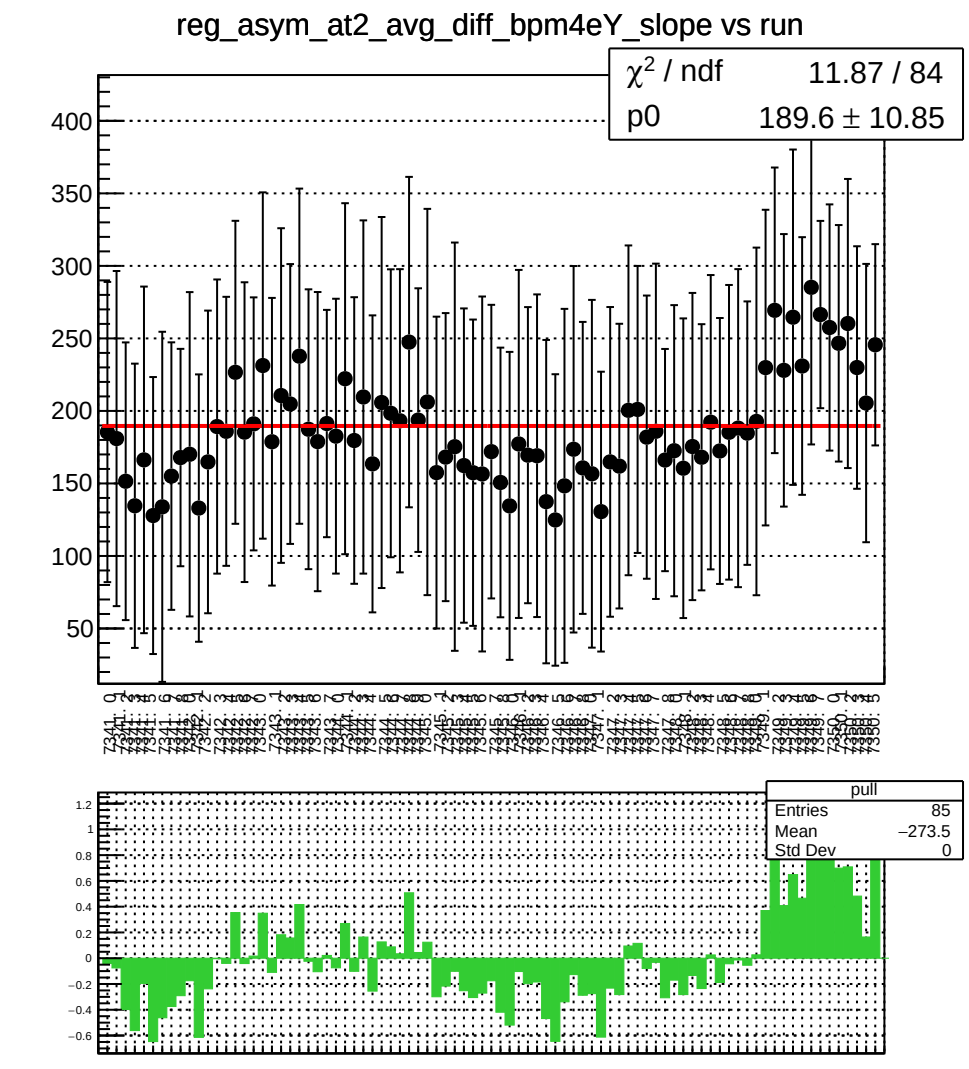

pull1D
Entries 85
Mean −0.004923
Std Dev 1.016

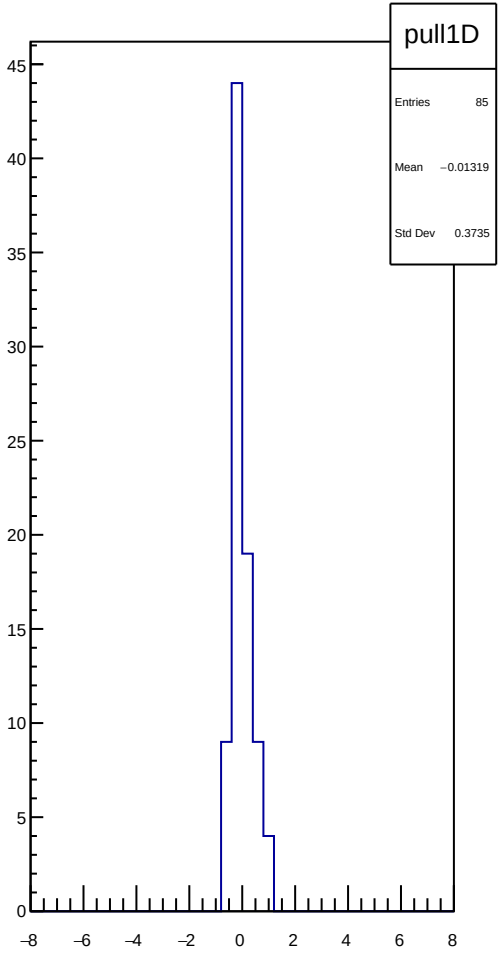

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 44.67 / 84
p0 −319.3 ± 11.13
pull
Entries 85
Mean −11.61
Std Dev 0
pull1D
Entries 85
Mean −0.1264
Std Dev 0.7139

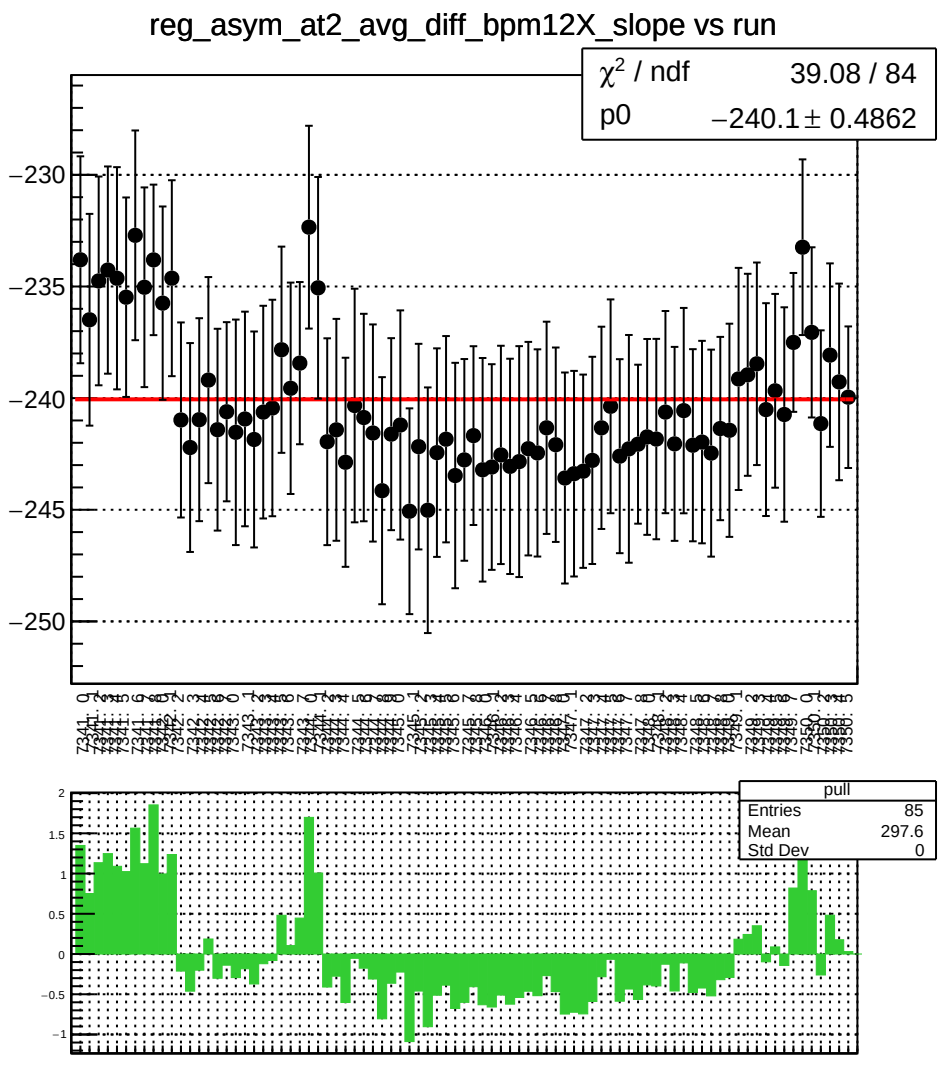

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.63 / 84
p0 −57.46 ± 9.947
pull
Entries 85
Mean −501
Std Dev 0

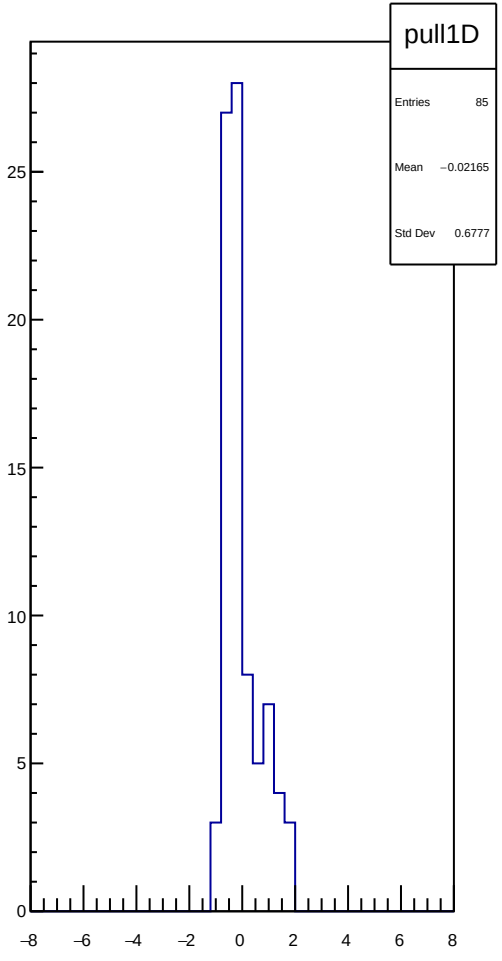

pull1D
Entries 85
Mean 0.007093
Std Dev 0.3698

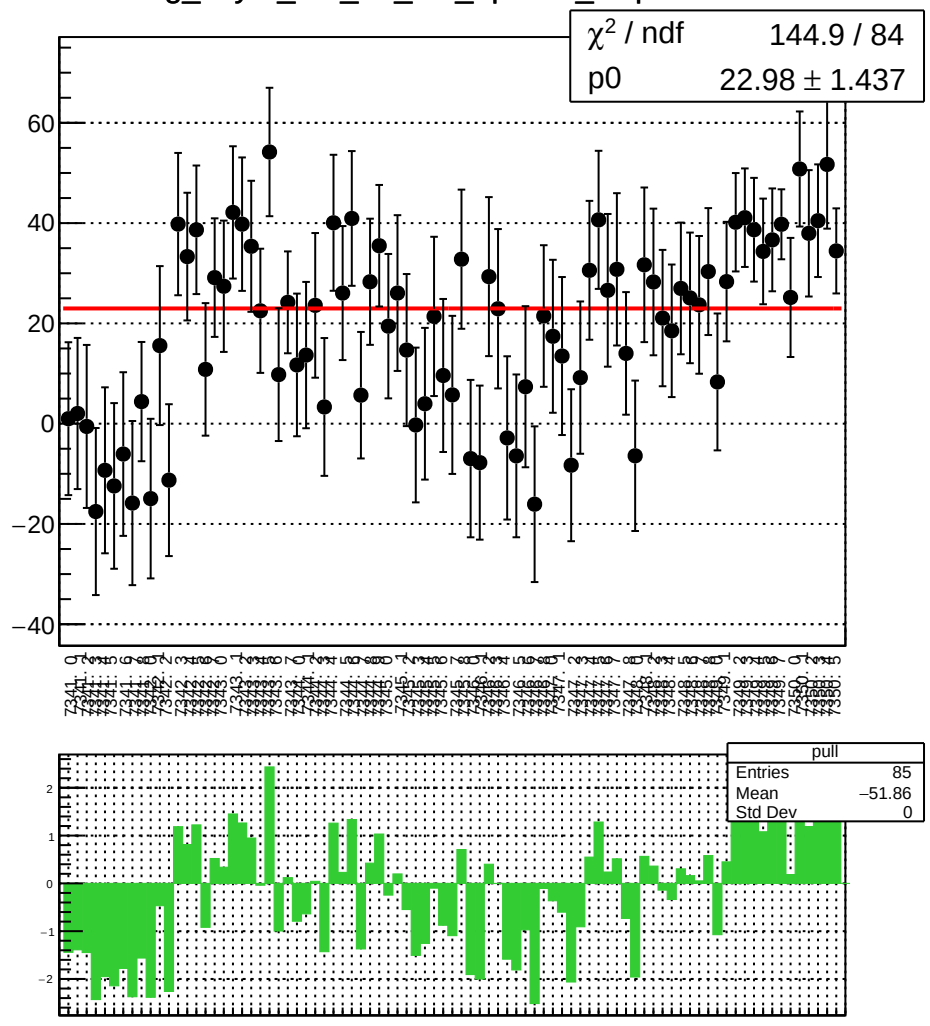

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.78 / 84
p0 336.1 ± 10.95
pull
Entries 85
Mean −10.1
Std Dev 0
pull1D
Entries 85
Mean 0.1294
Std Dev 0.7142

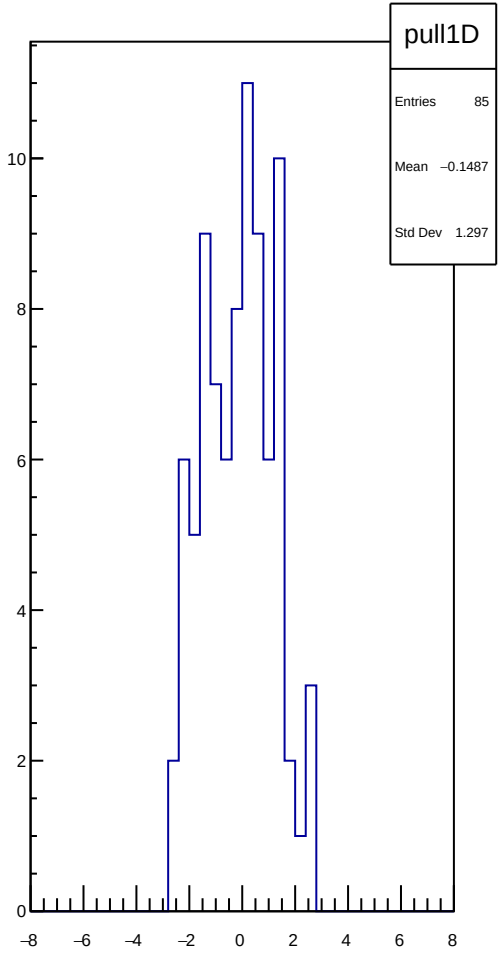

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.87 / 84
p0 189.6 ± 10.85
pull
Entries 85
Mean −273.5
Std Dev 0

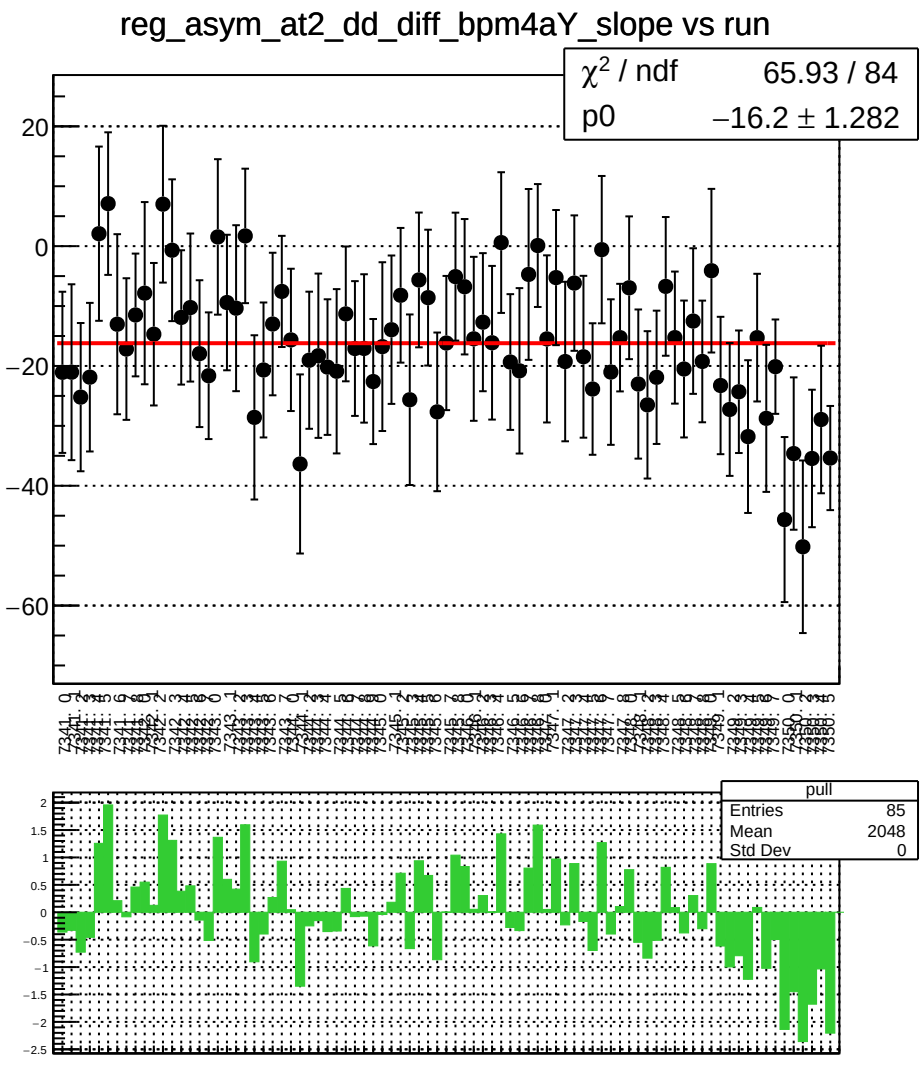

pull1D
Entries 85
Mean −0.01319
Std Dev 0.3735

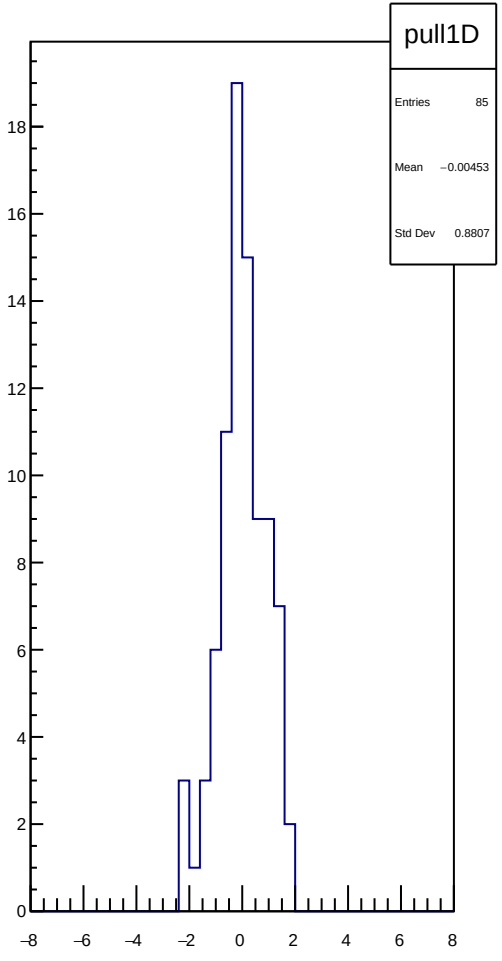

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 39.08 / 84
p0 −240.1 ± 0.4862
pull
Entries 85
Mean 297.6
Std Dev 0

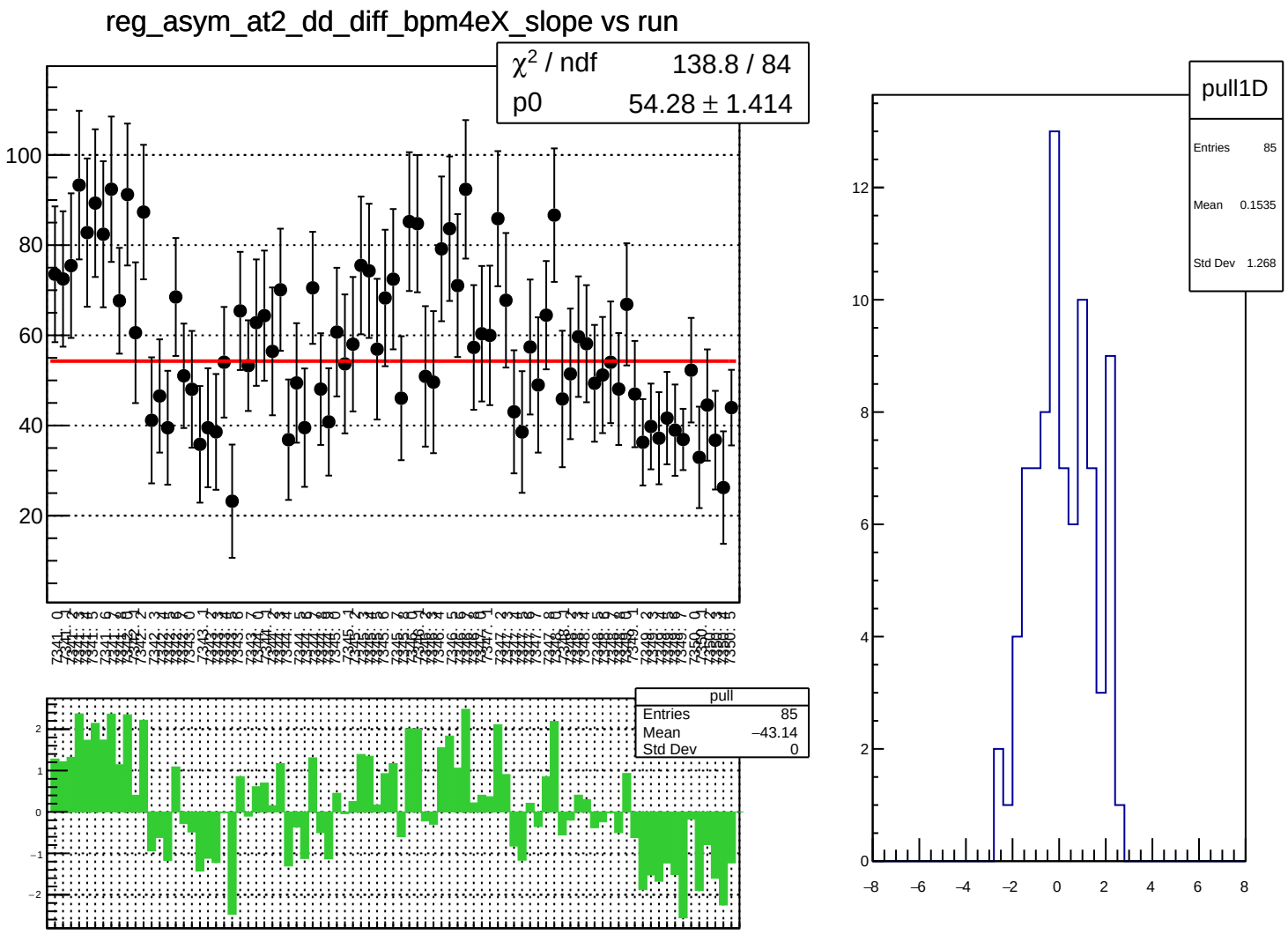

pull1D
Entries 85
Mean −0.02165
Std Dev 0.6777

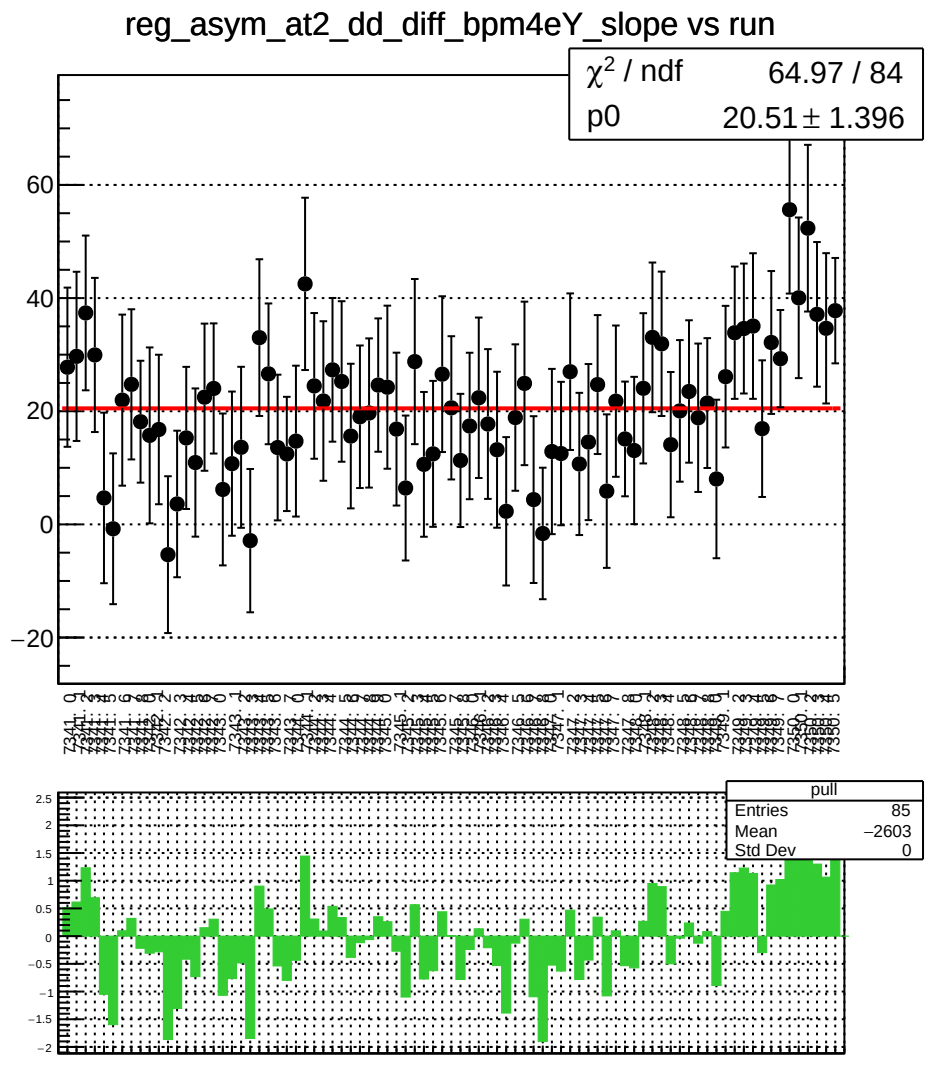

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 144.9 / 84
p0 22.98 ± 1.437
pull
Entries 85
Mean −51.86
Std Dev 0

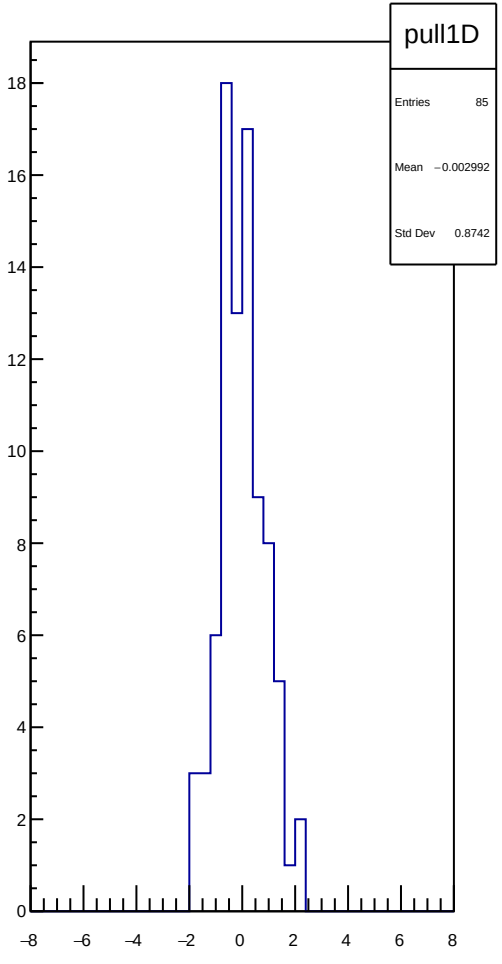

pull1D
Entries 85
Mean −0.1487
Std Dev 1.297

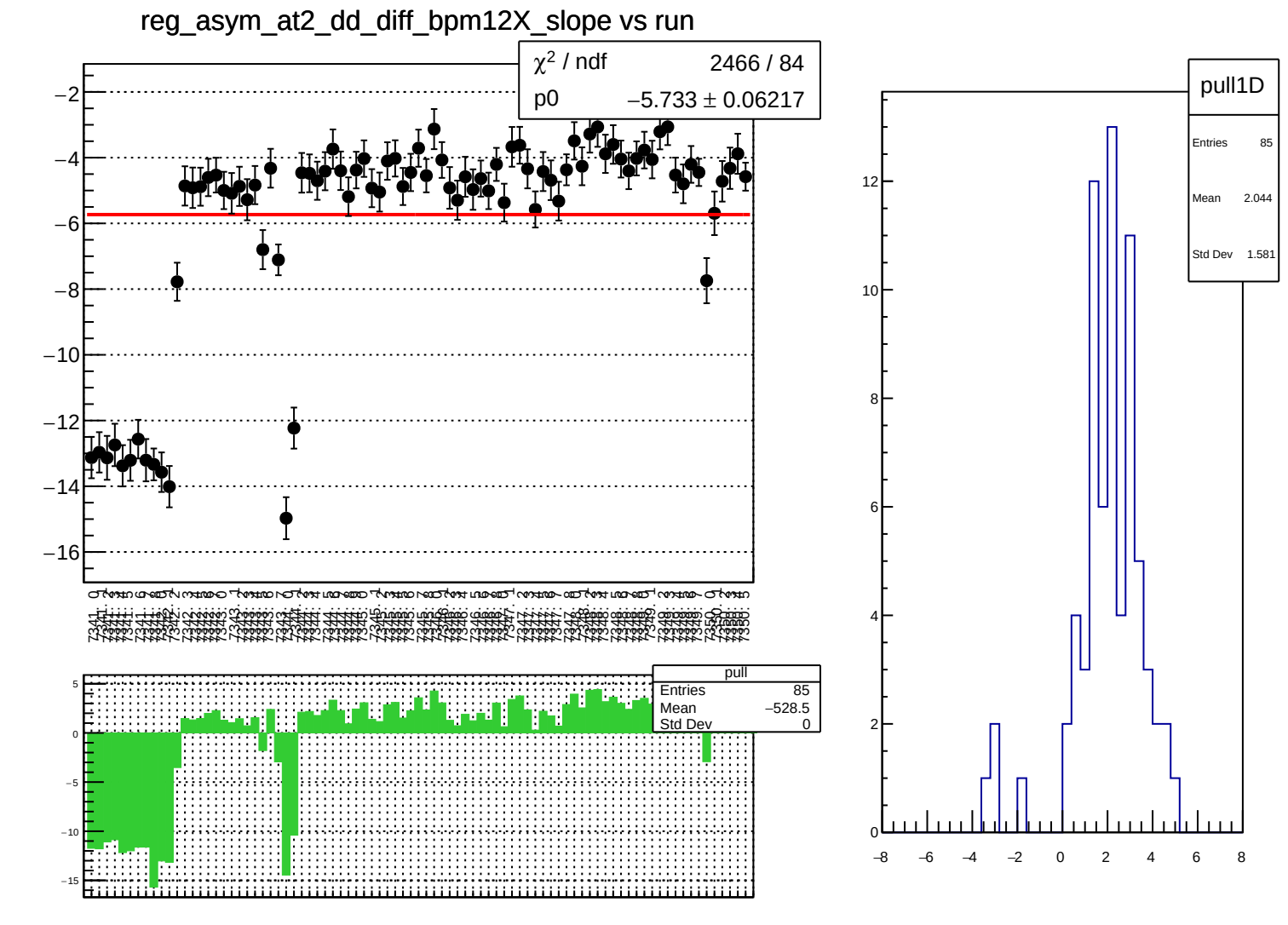

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.93 / 84
p0 −16.2 ± 1.282
pull
Entries 85
Mean 2048
Std Dev 0

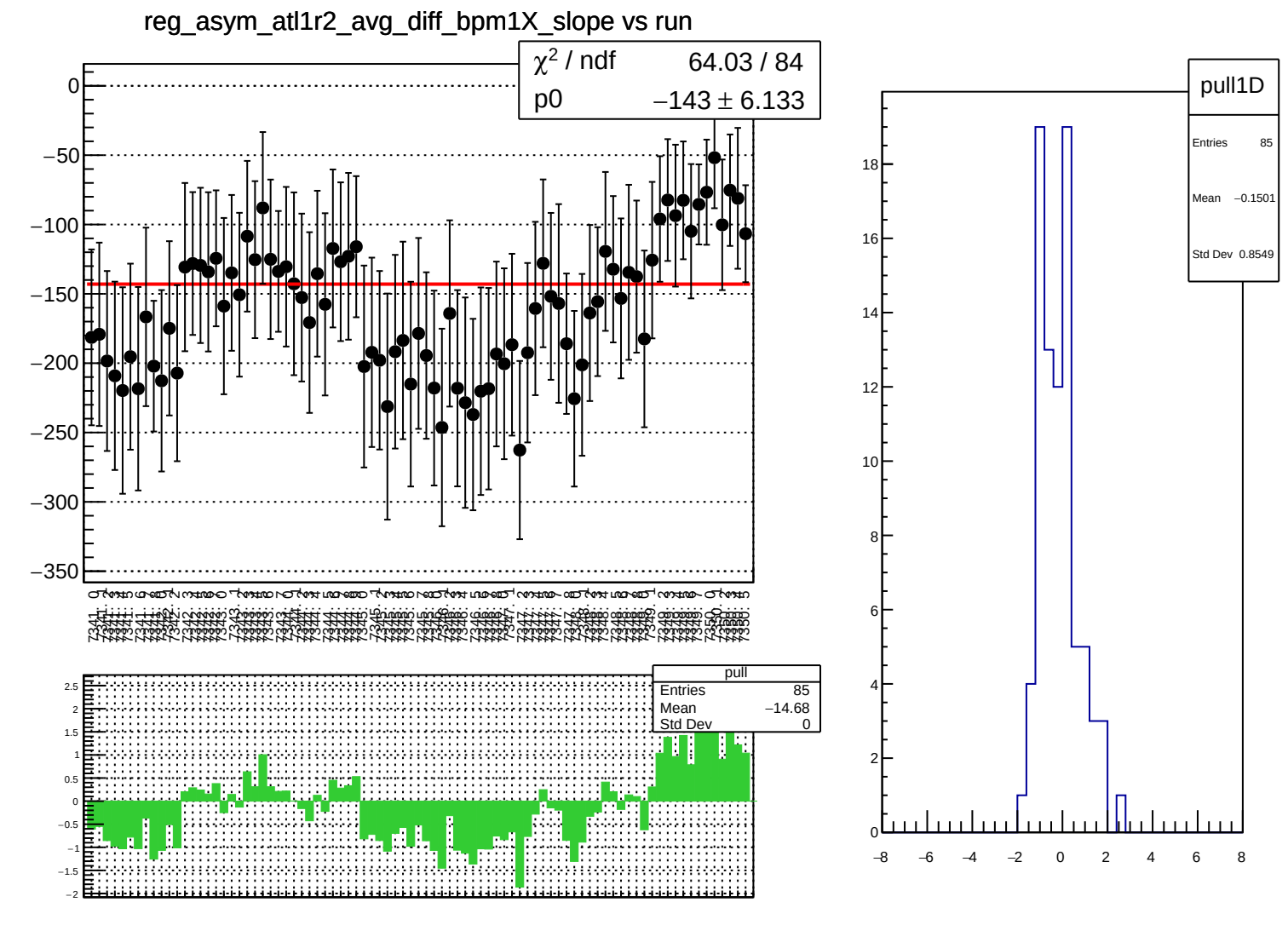

pull1D
Entries 85
Mean −0.00453
Std Dev 0.8807

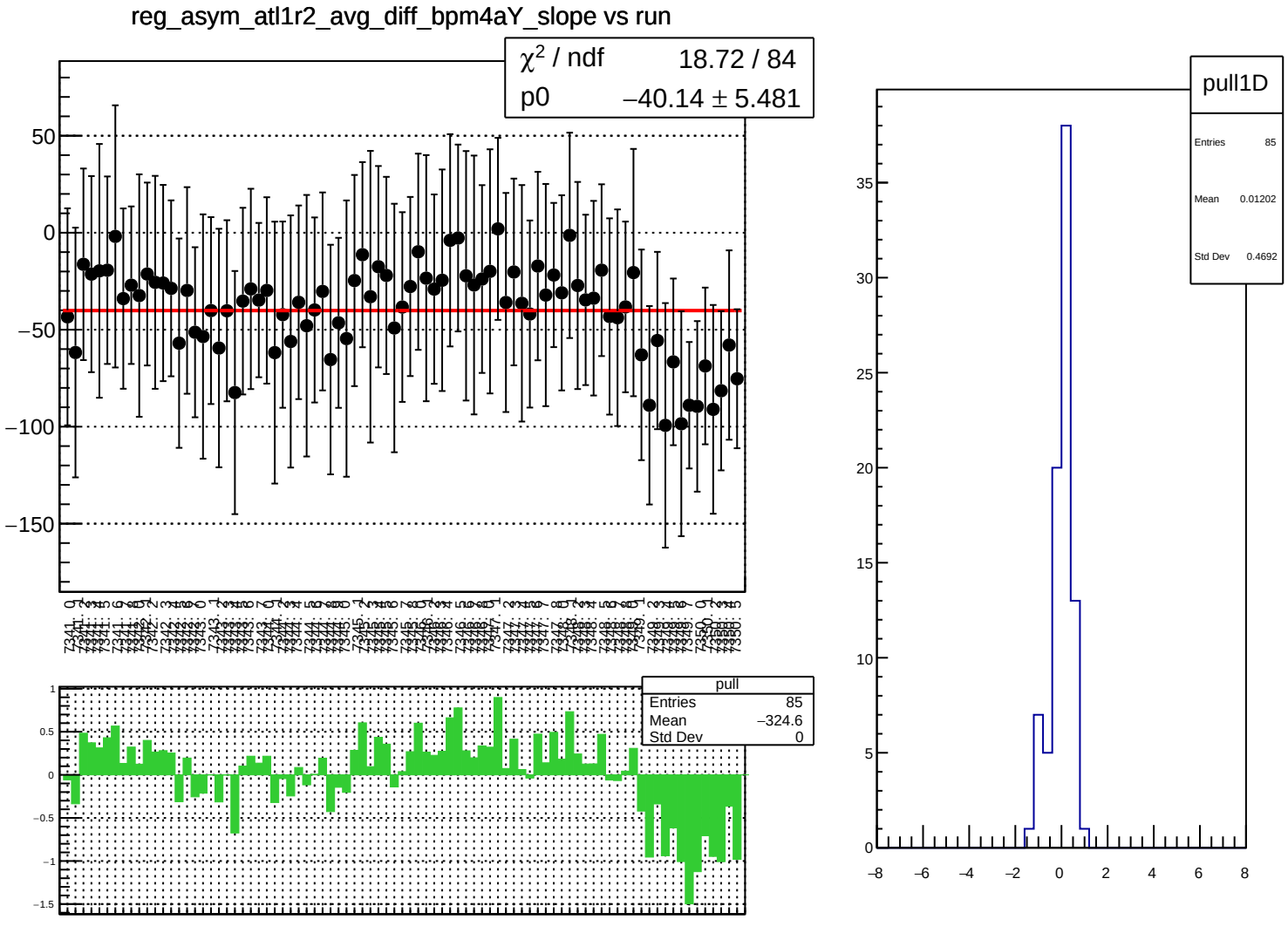

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 138.8 / 84
p0 54.28 ± 1.414
pull
Entries 85
Mean −43.14
Std Dev 0
pull1D
Entries 85
Mean 0.1535
Std Dev 1.268

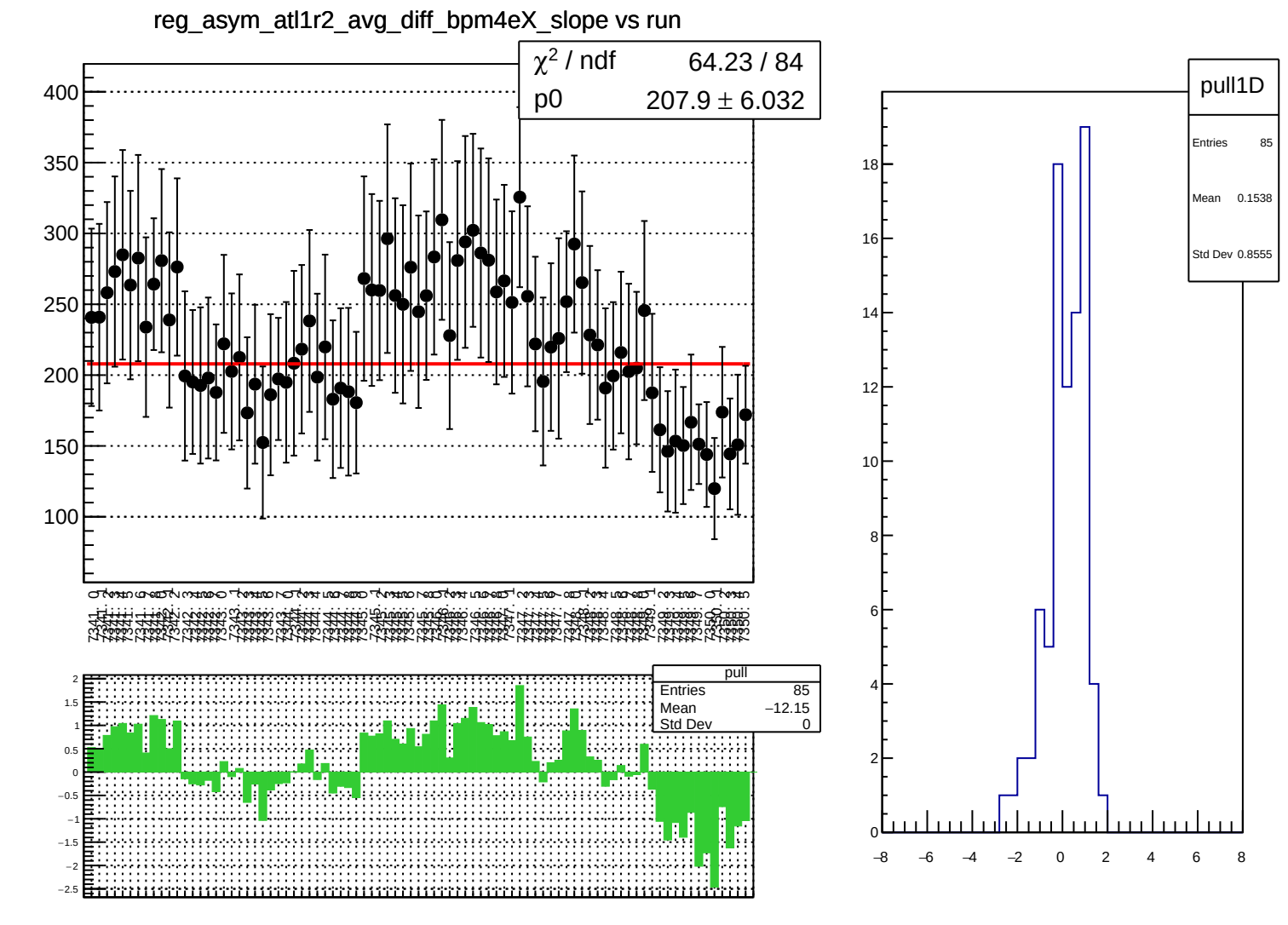

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.97 / 84
p0 20.51 ± 1.396
pull
Entries 85
Mean −2603
Std Dev 0

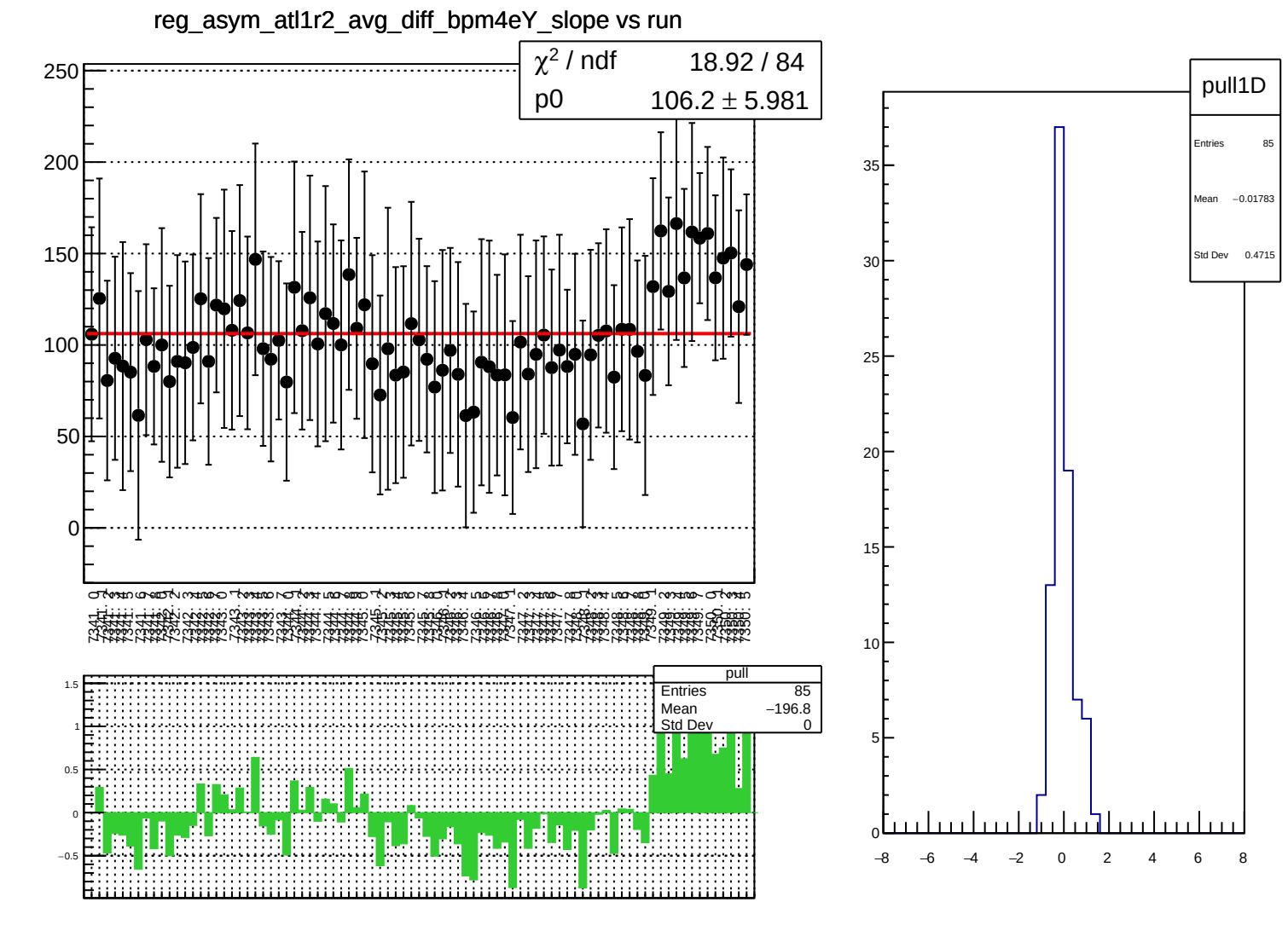

pull1D
Entries 85
Mean −0.002992
Std Dev 0.8742

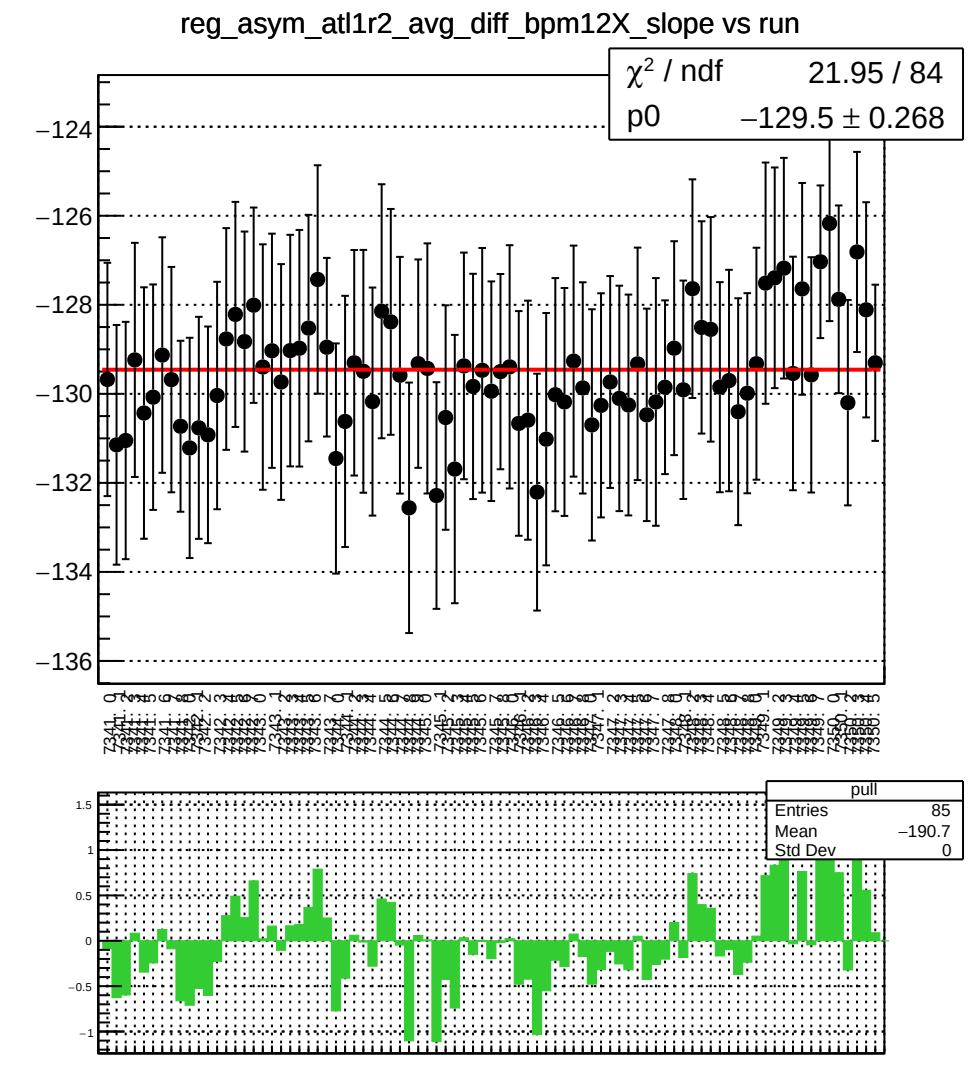

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 2466 / 84
p0 −5.733 ± 0.06217
pull
Entries 85
Mean −528.5
Std Dev 0
pull1D
Entries 85
Mean 2.044
Std Dev 1.581

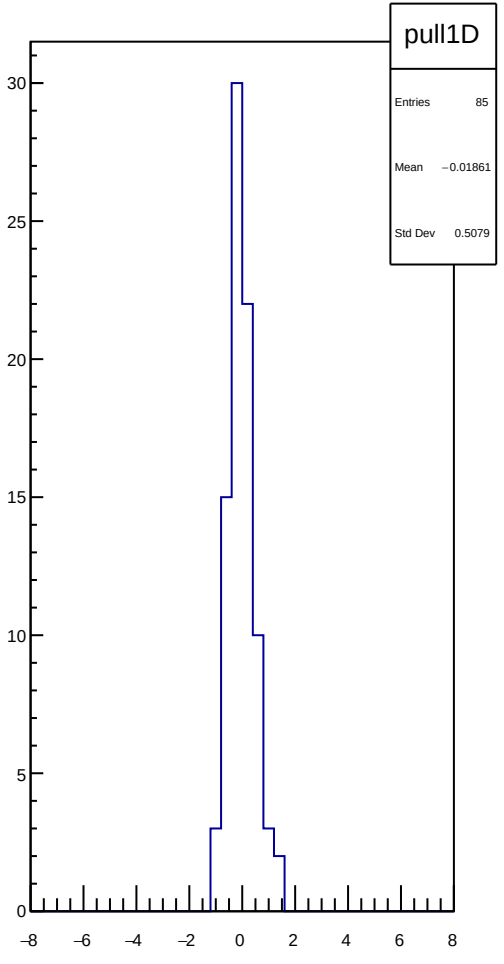

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 64.03 / 84
p0 −143 ± 6.133
pull
Entries 85
Mean −14.68
Std Dev 0
pull1D
Entries 85
Mean −0.1501
Std Dev 0.8549

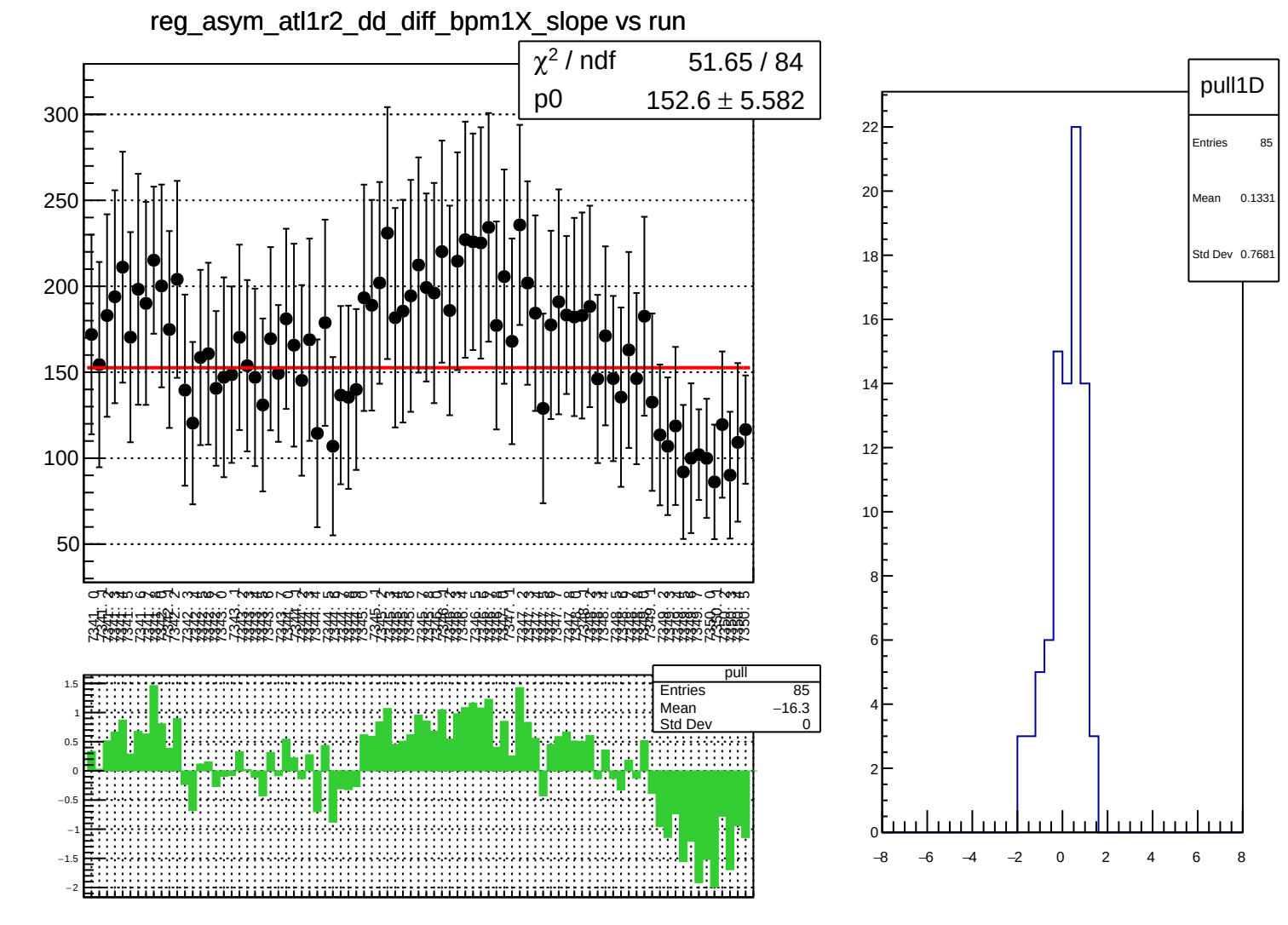

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.72 / 84
p0 −40.14 ± 5.481
pull
Entries 85
Mean −324.6
Std Dev 0
pull1D
Entries 85
Mean 0.01202
Std Dev 0.4692

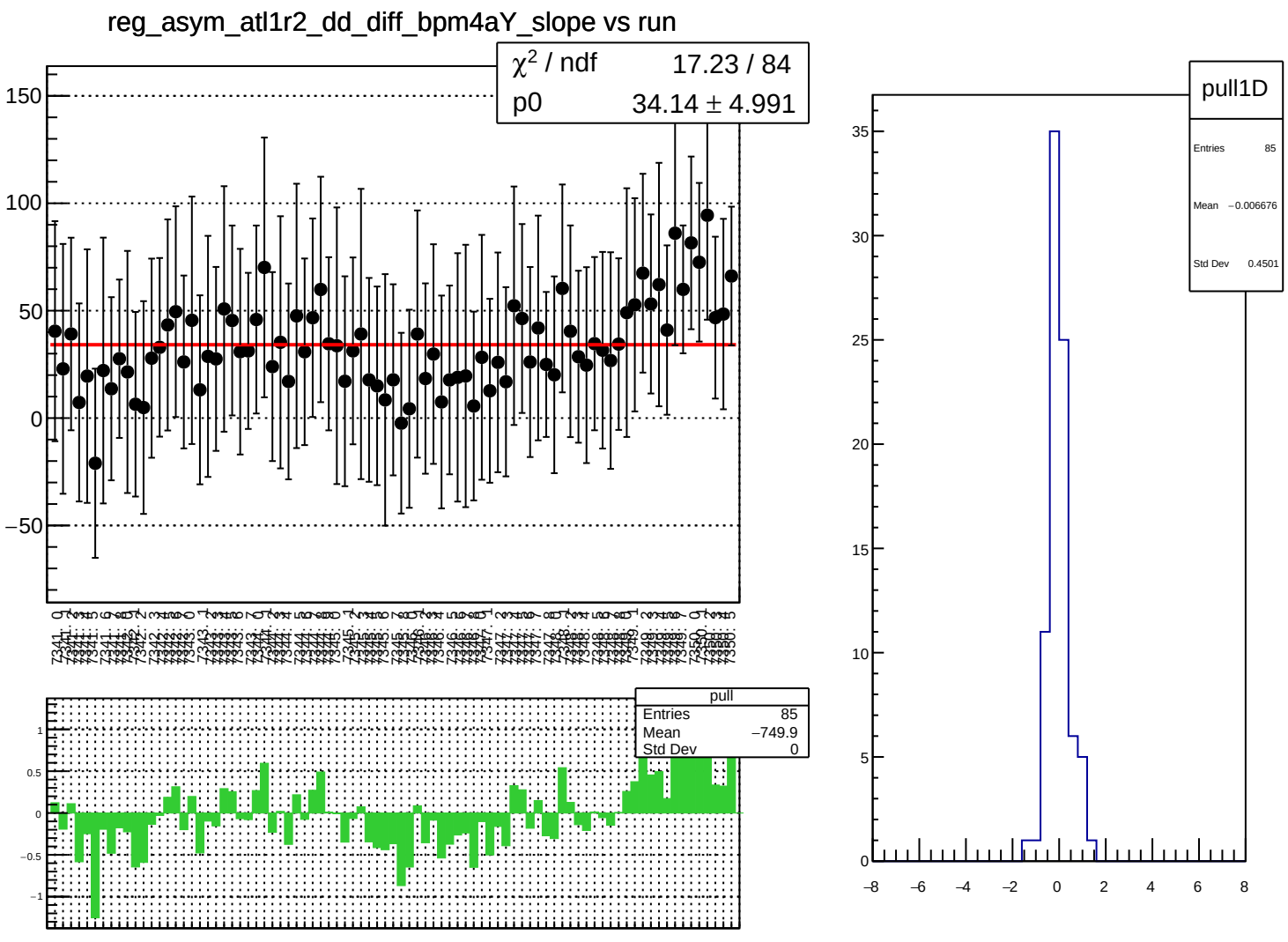

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.23 / 84
p0 207.9 ± 6.032
pull
Entries 85
Mean −12.15
Std Dev 0
pull1D
Entries 85
Mean 0.1538
Std Dev 0.8555

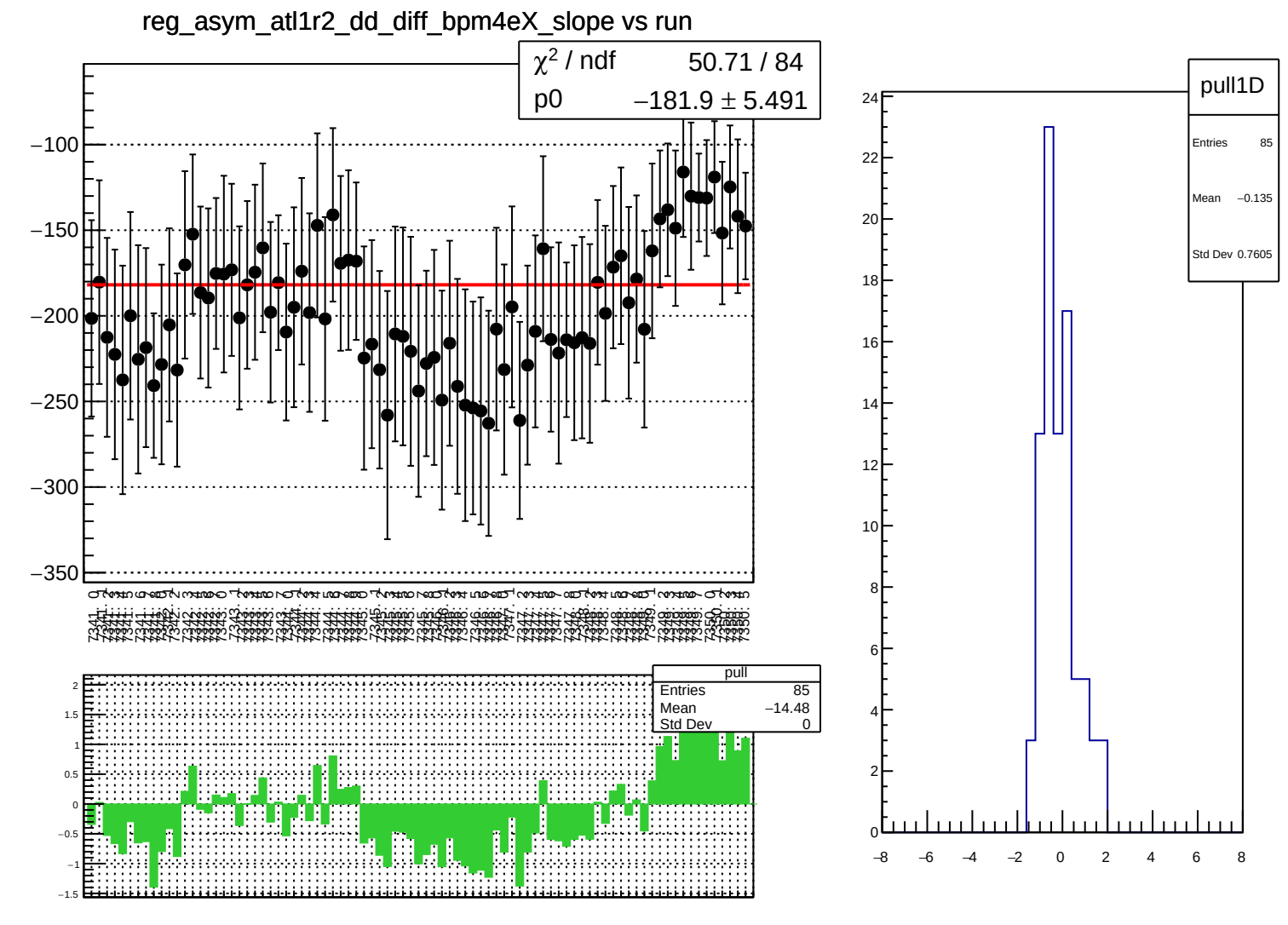

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.92 / 84
p0 106.2 ± 5.981
pull
Entries 85
Mean −196.8
Std Dev 0
pull1D
Entries 85
Mean −0.01783
Std Dev 0.4715

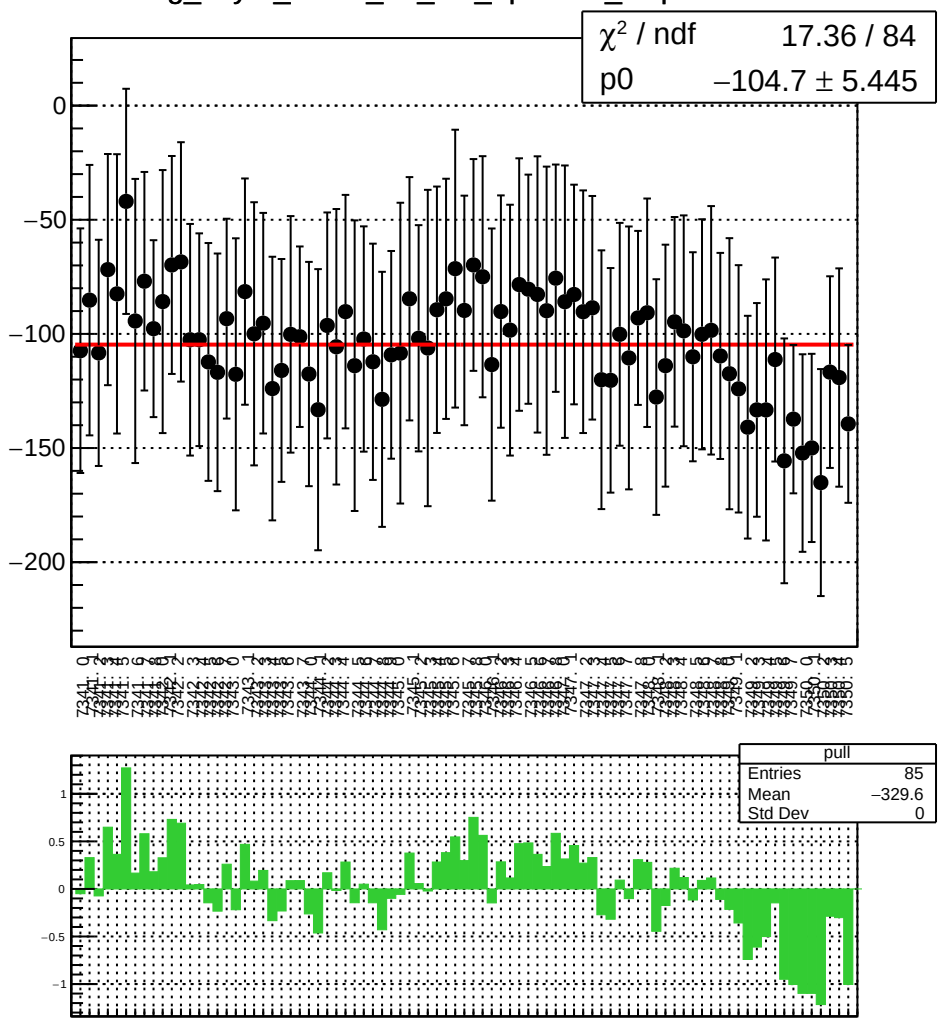

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 21.95 / 84
p0 −129.5 ± 0.268
pull
Entries 85
Mean −190.7
Std Dev 0

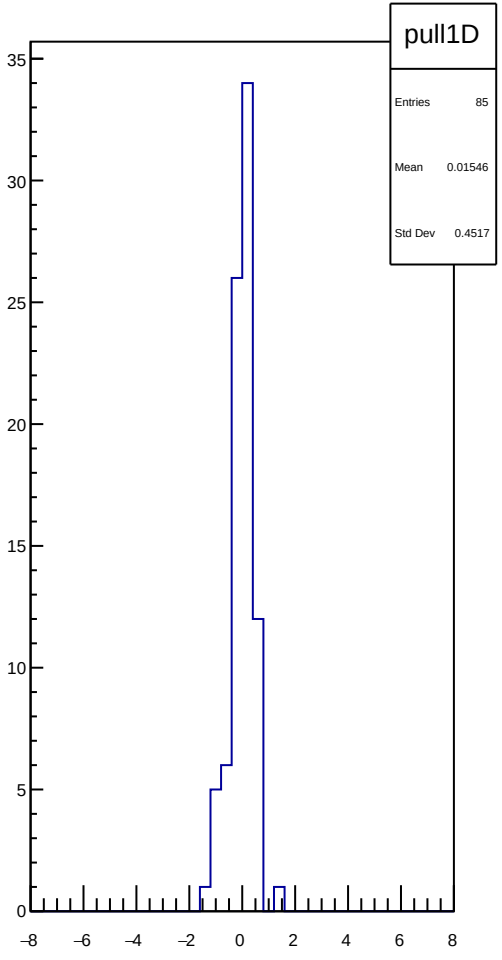

pull1D
Entries 85
Mean −0.01861
Std Dev 0.5079

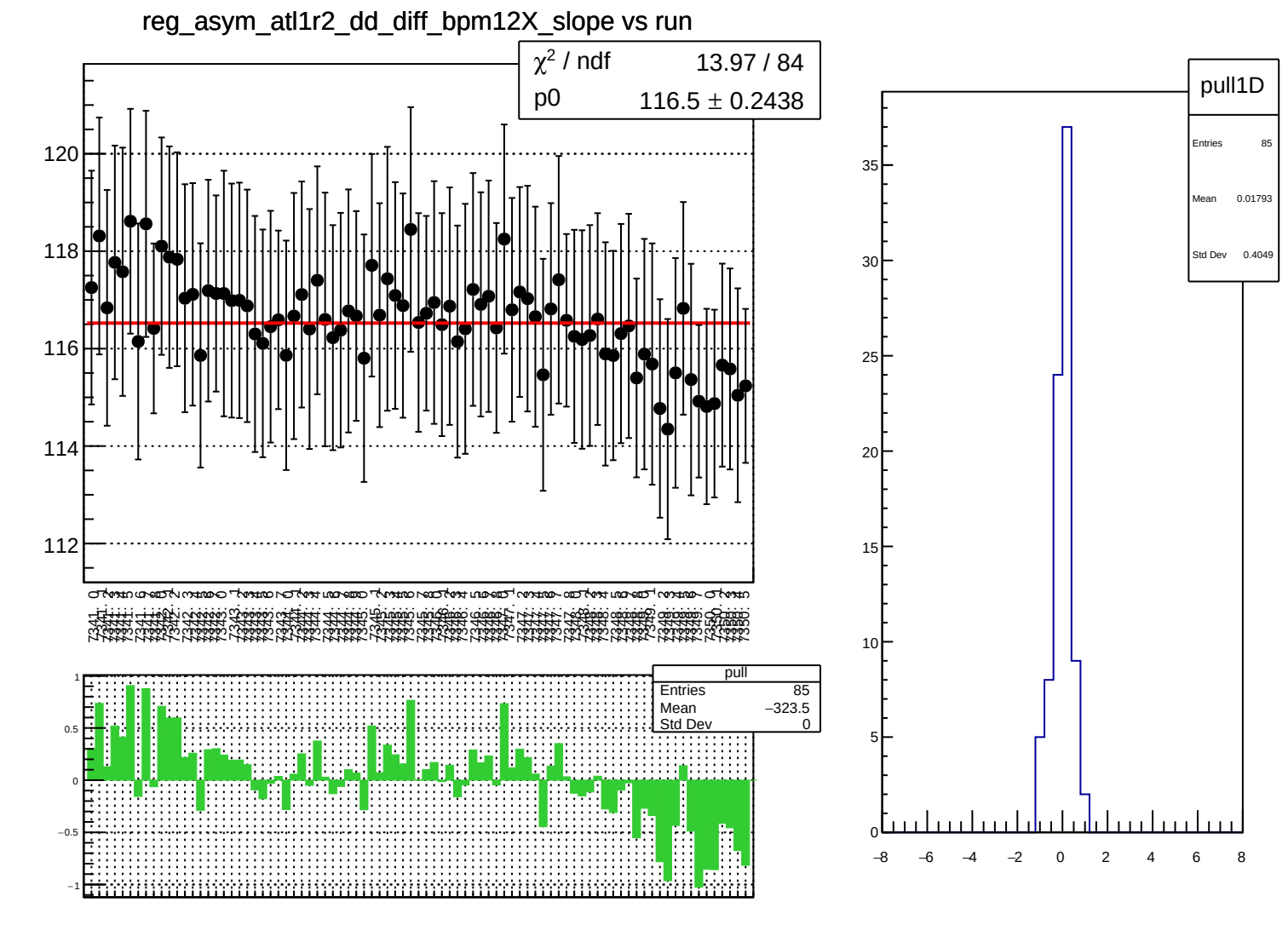

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 51.65 / 84
p0 152.6 ± 5.582
pull
Entries 85
Mean −16.3
Std Dev 0
pull1D
Entries 85
Mean 0.1331
Std Dev 0.7681

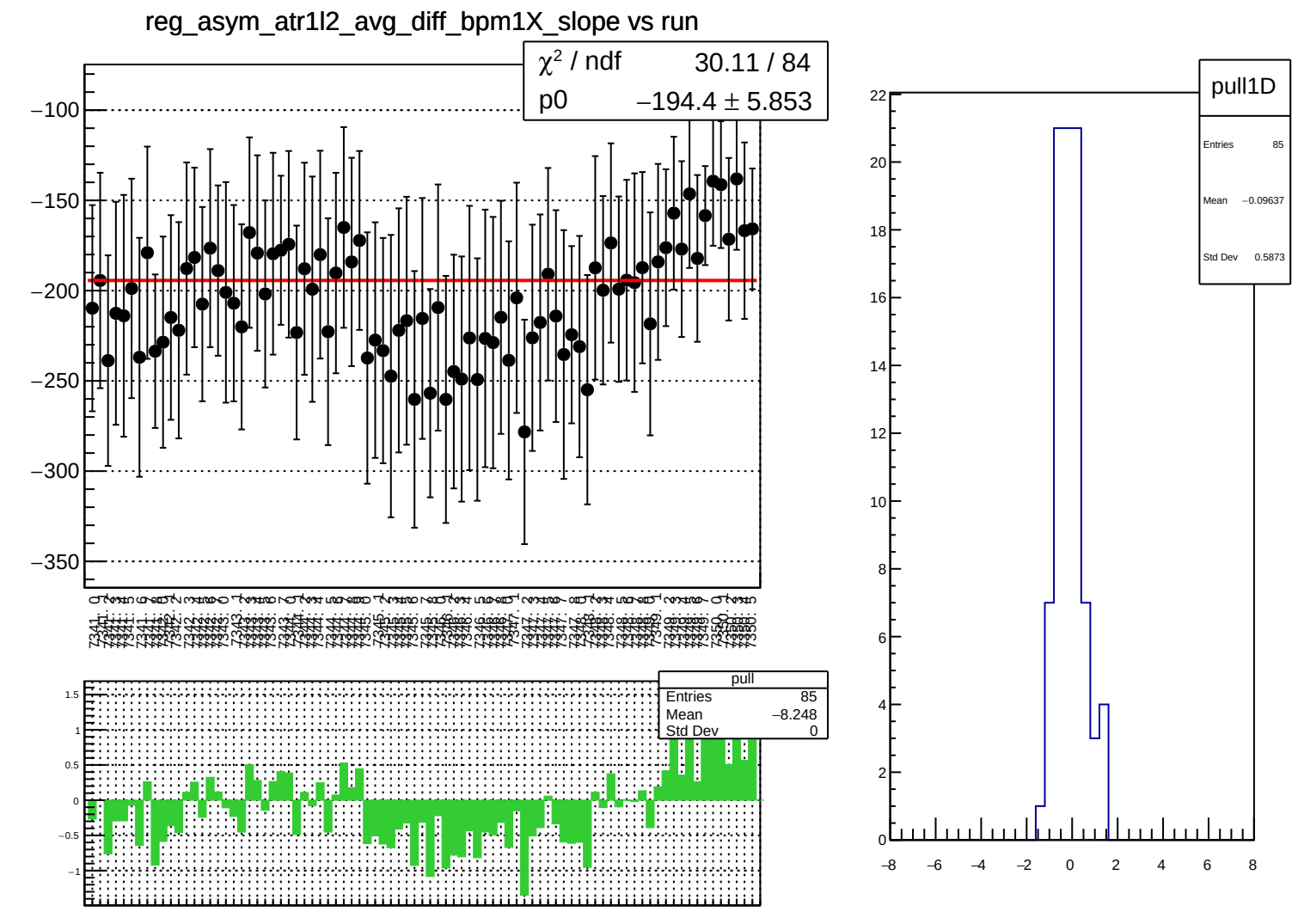

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.23 / 84
p0 34.14 ± 4.991
150
100
50
0
−50
pull
Entries 85
Mean −749.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.006676
Std Dev 0.4501
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

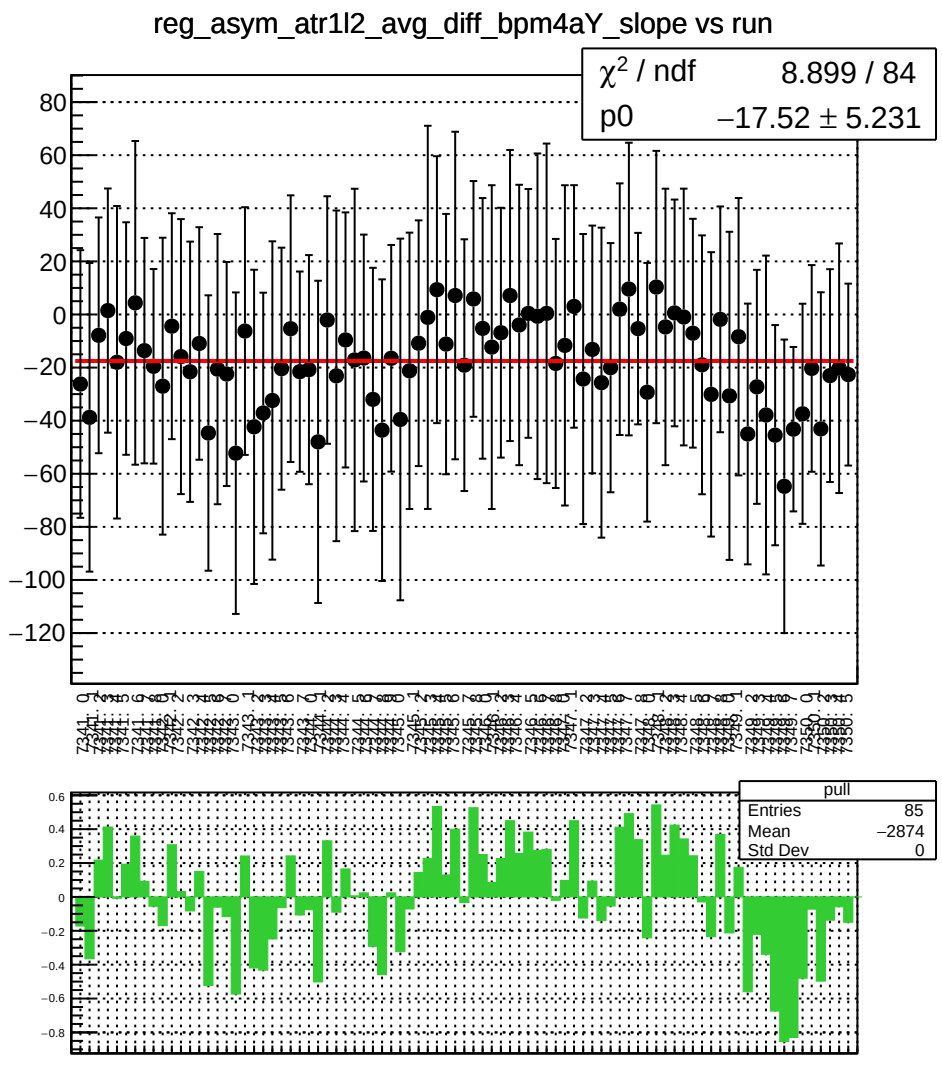

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.71 / 84
p0 −181.9 ± 5.491
pull
Entries 85
Mean −14.48
Std Dev 0
pull1D
Entries 85
Mean −0.135
Std Dev 0.7605

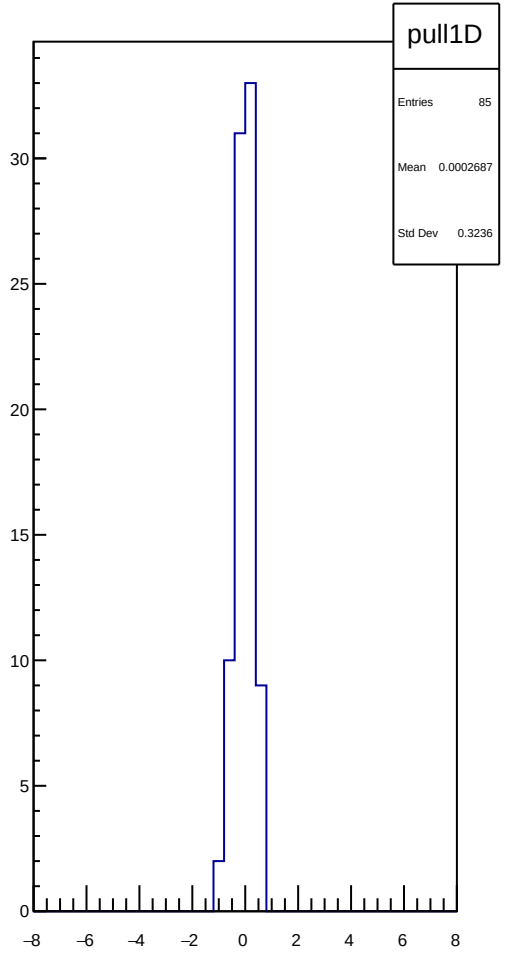

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.36 / 84
p0 −104.7 ± 5.445
pull
Entries 85
Mean −329.6
Std Dev 0

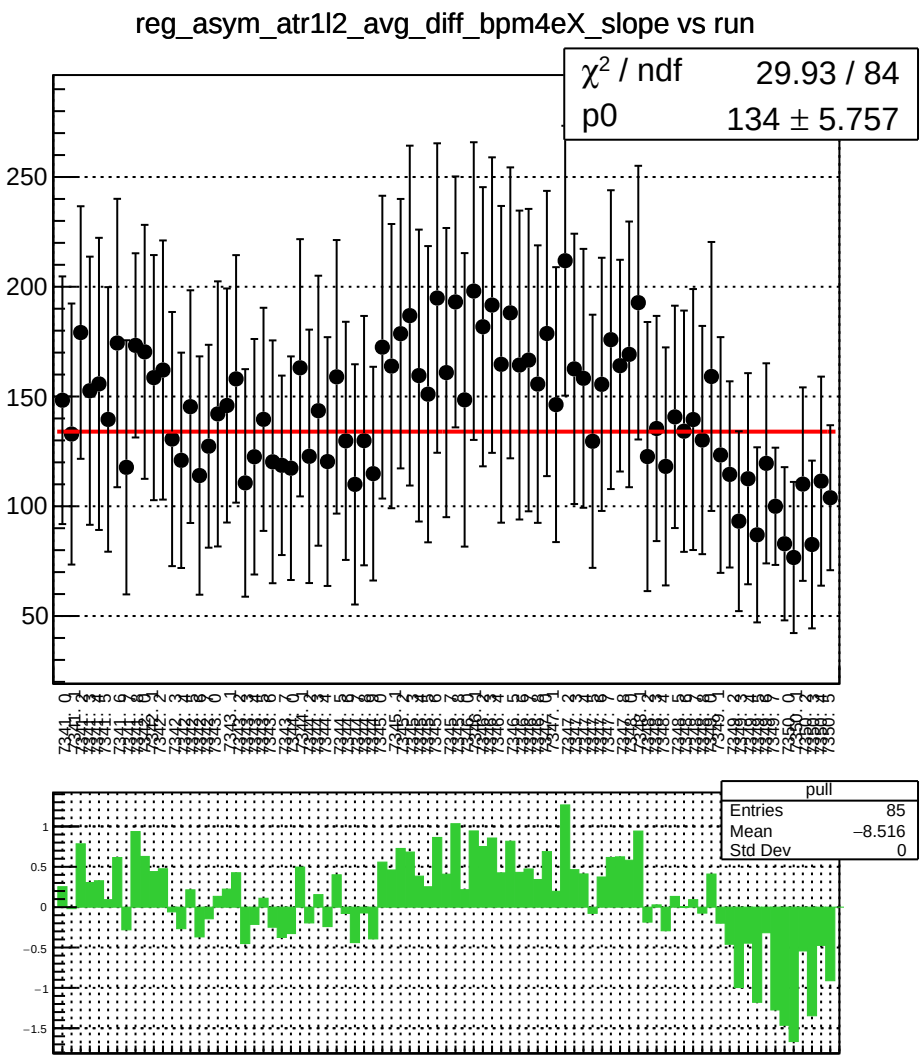

pull1D
Entries 85
Mean 0.01546
Std Dev 0.4517

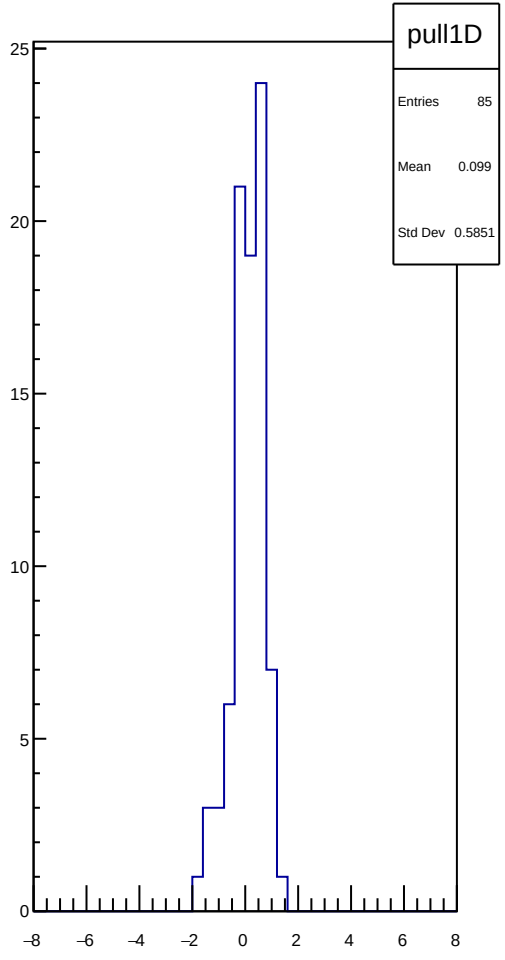

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.97 / 84
p0 116.5 ± 0.2438
120
118
116
114
112
pull
Entries 85
Mean −323.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean 0.01793
Std Dev 0.4049
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

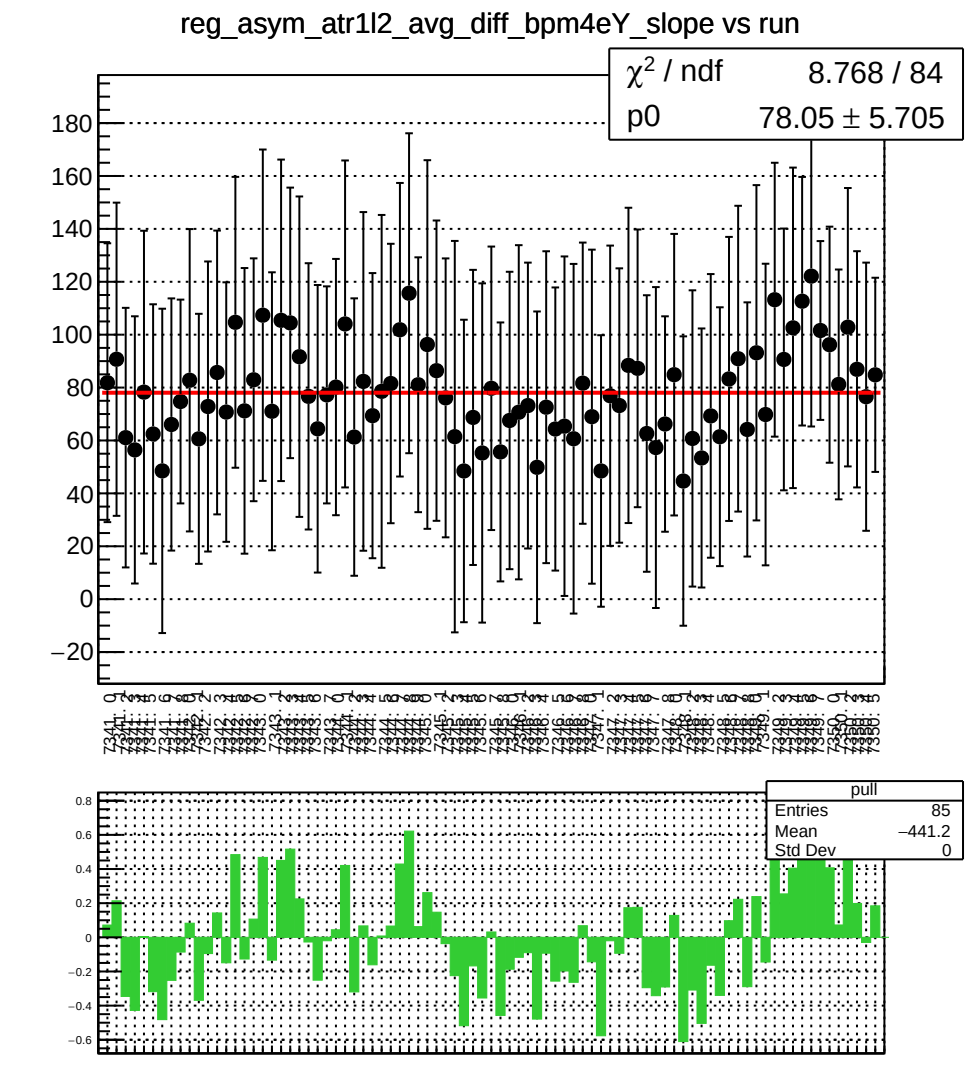

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 30.11 / 84
p0 −194.4 ± 5.853
pull
Entries 85
Mean −8.248
Std Dev 0
pull1D
Entries 85
Mean −0.09637
Std Dev 0.5873

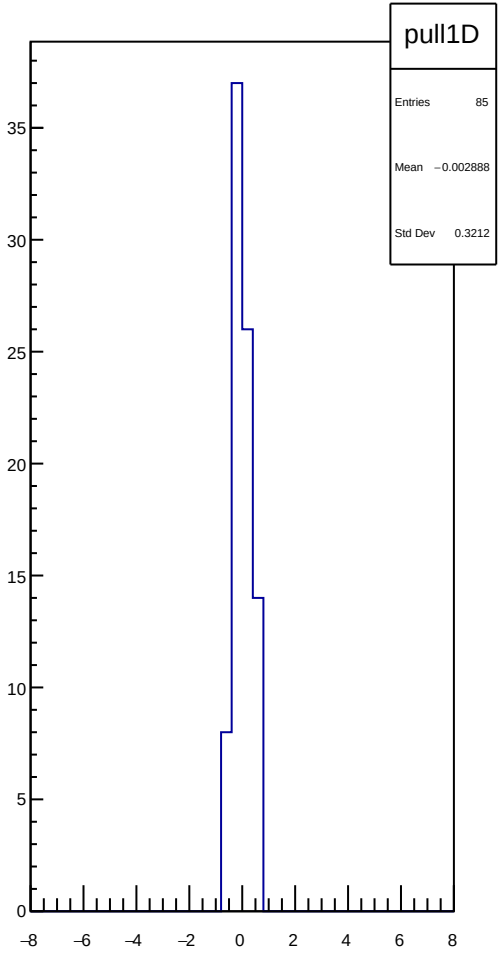

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.899 / 84
p0 −17.52 ± 5.231
pull
Entries 85
Mean −2874
Std Dev 0

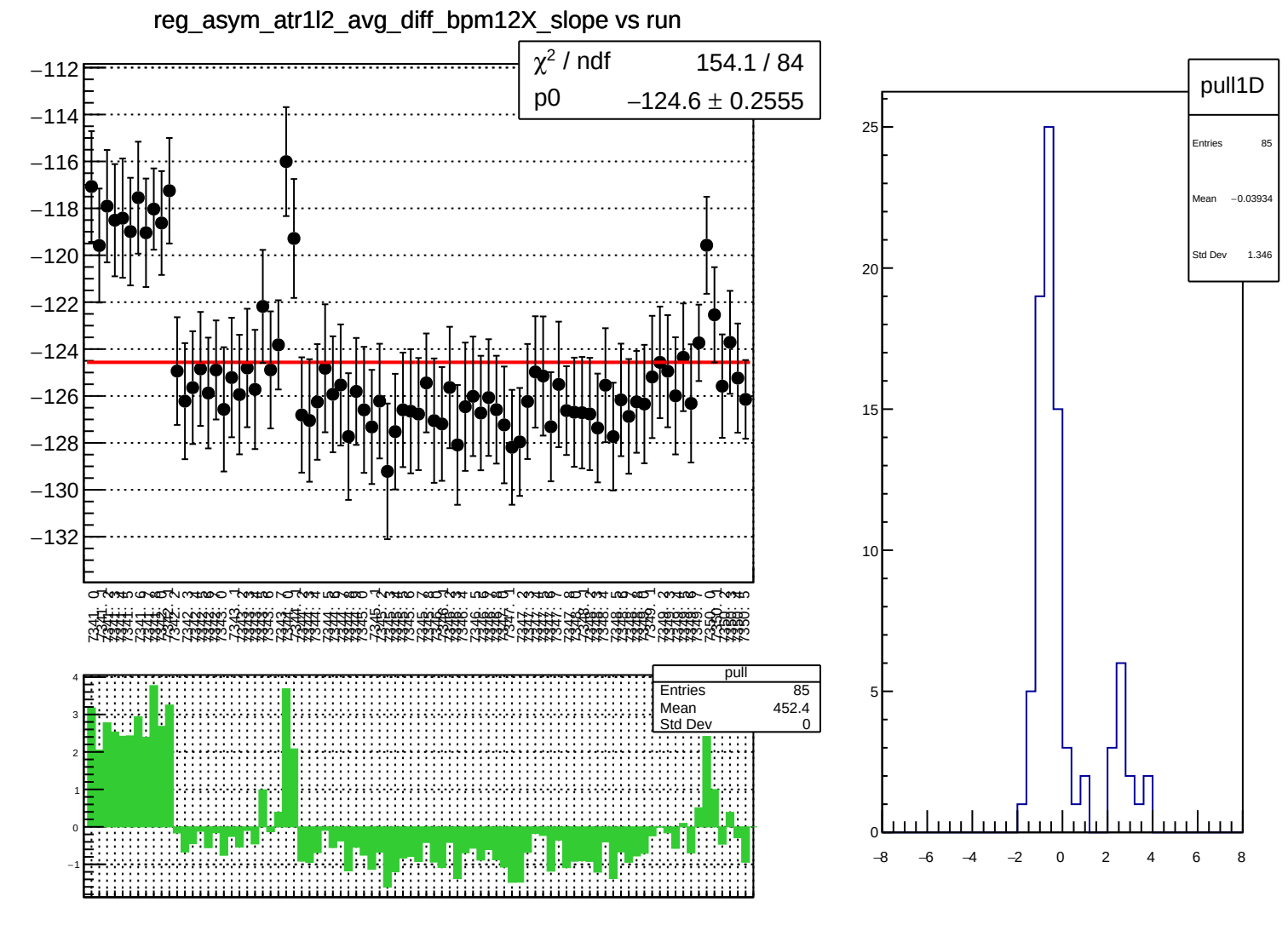

pull1D
Entries 85
Mean 0.0002687
Std Dev 0.3236

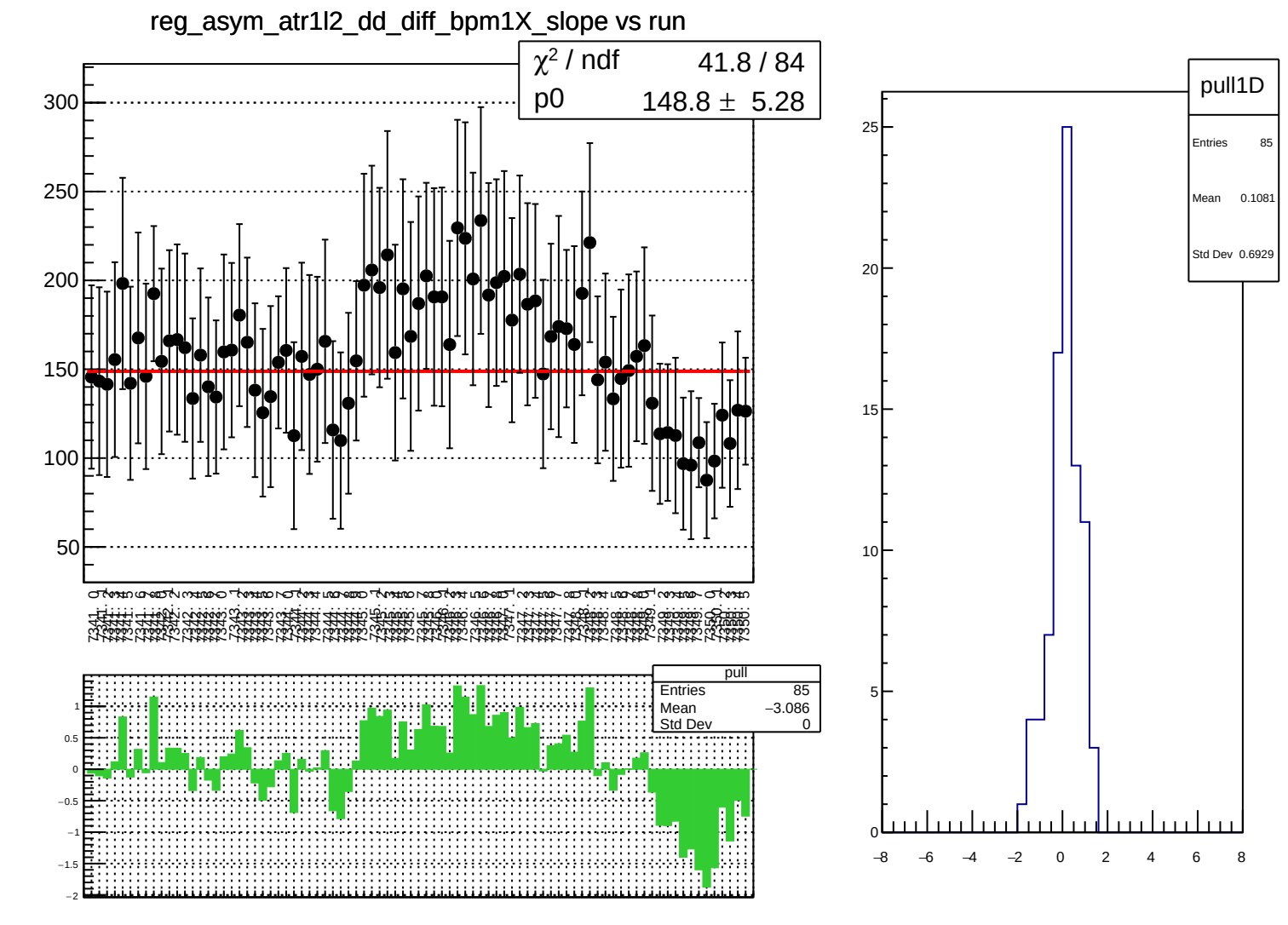

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.93 / 84
p0 134 ± 5.757
250
200
150
100
50
pull
Entries 85
Mean −8.516
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

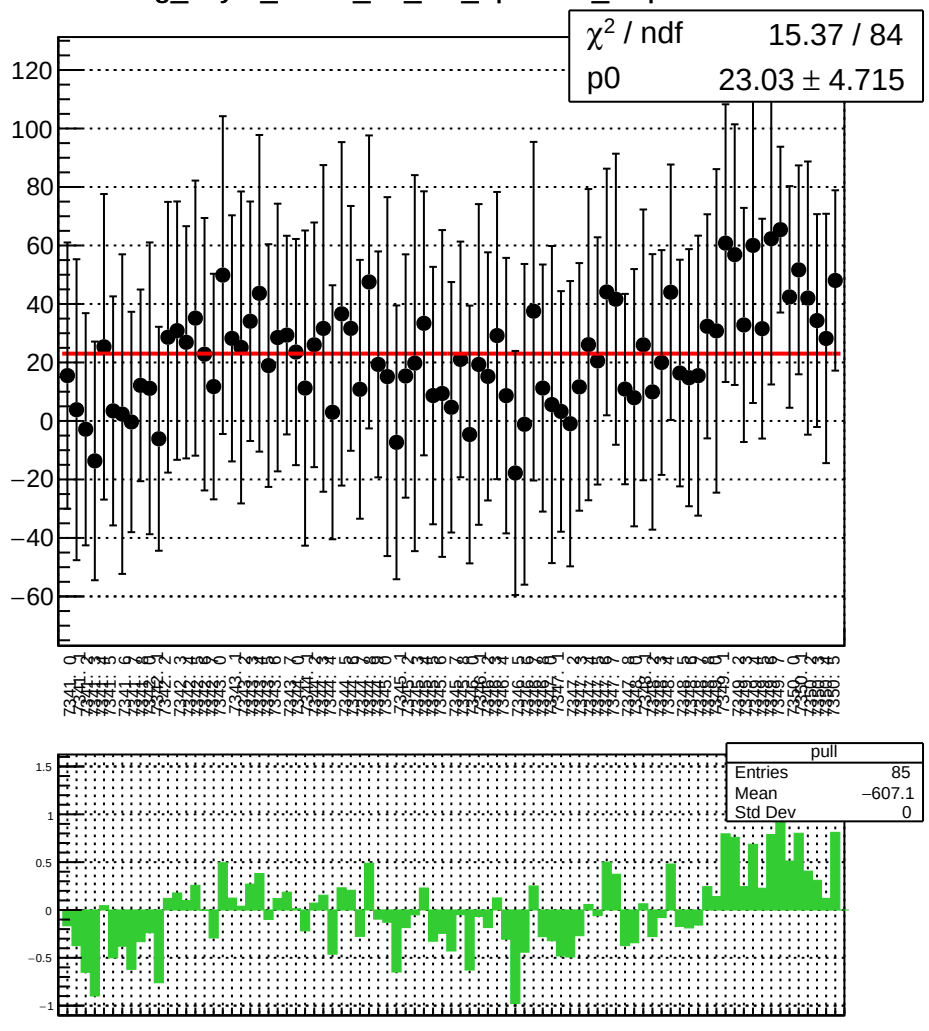

pull1D
Entries 85
Mean 0.099
Std Dev 0.5851
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

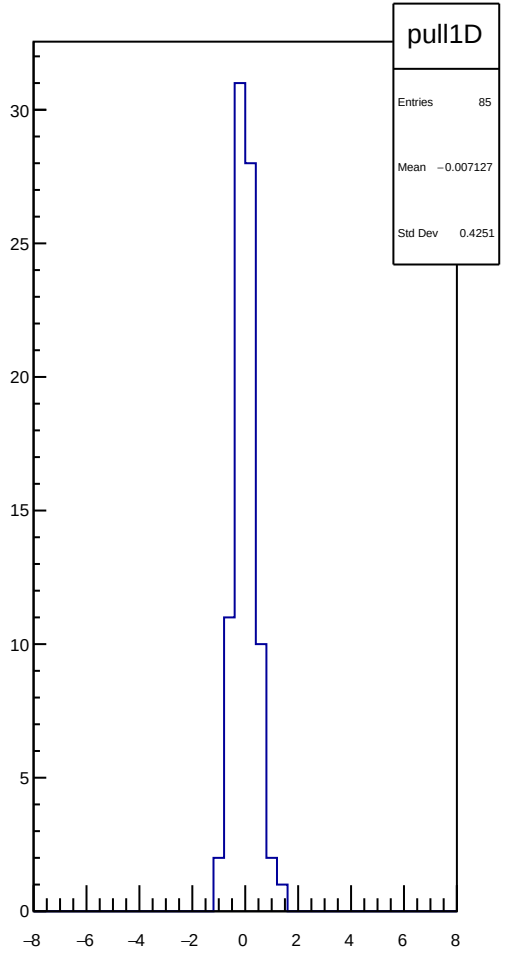

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.768 / 84
p0 78.05 ± 5.705
pull
Entries 85
Mean −441.2
Std Dev 0

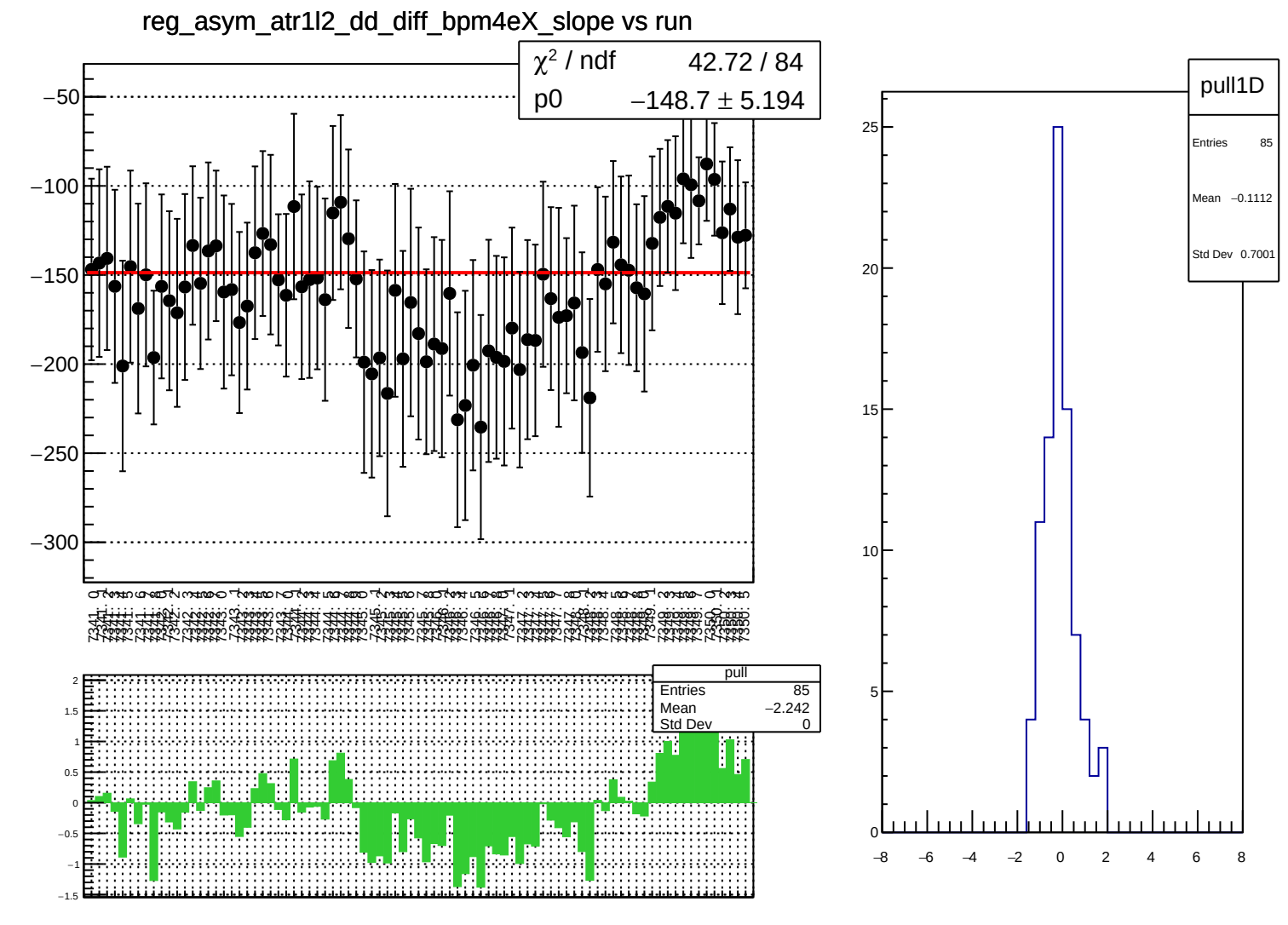

pull1D
Entries 85
Mean −0.002888
Std Dev 0.3212

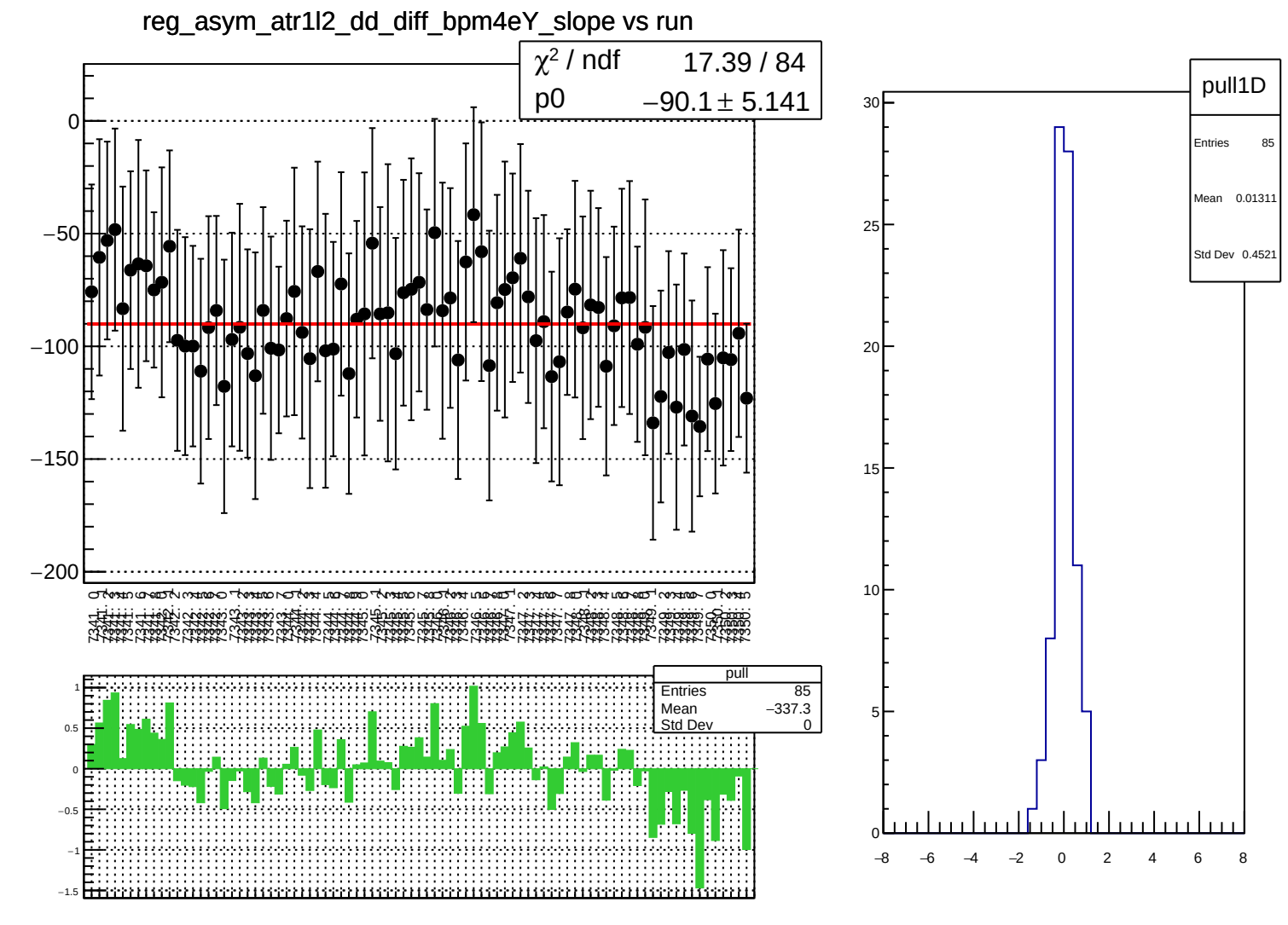

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 154.1 / 84
p0 −124.6 ± 0.2555
pull
Entries 85
Mean 452.4
Std Dev 0
pull1D
Entries 85
Mean −0.03934
Std Dev 1.346

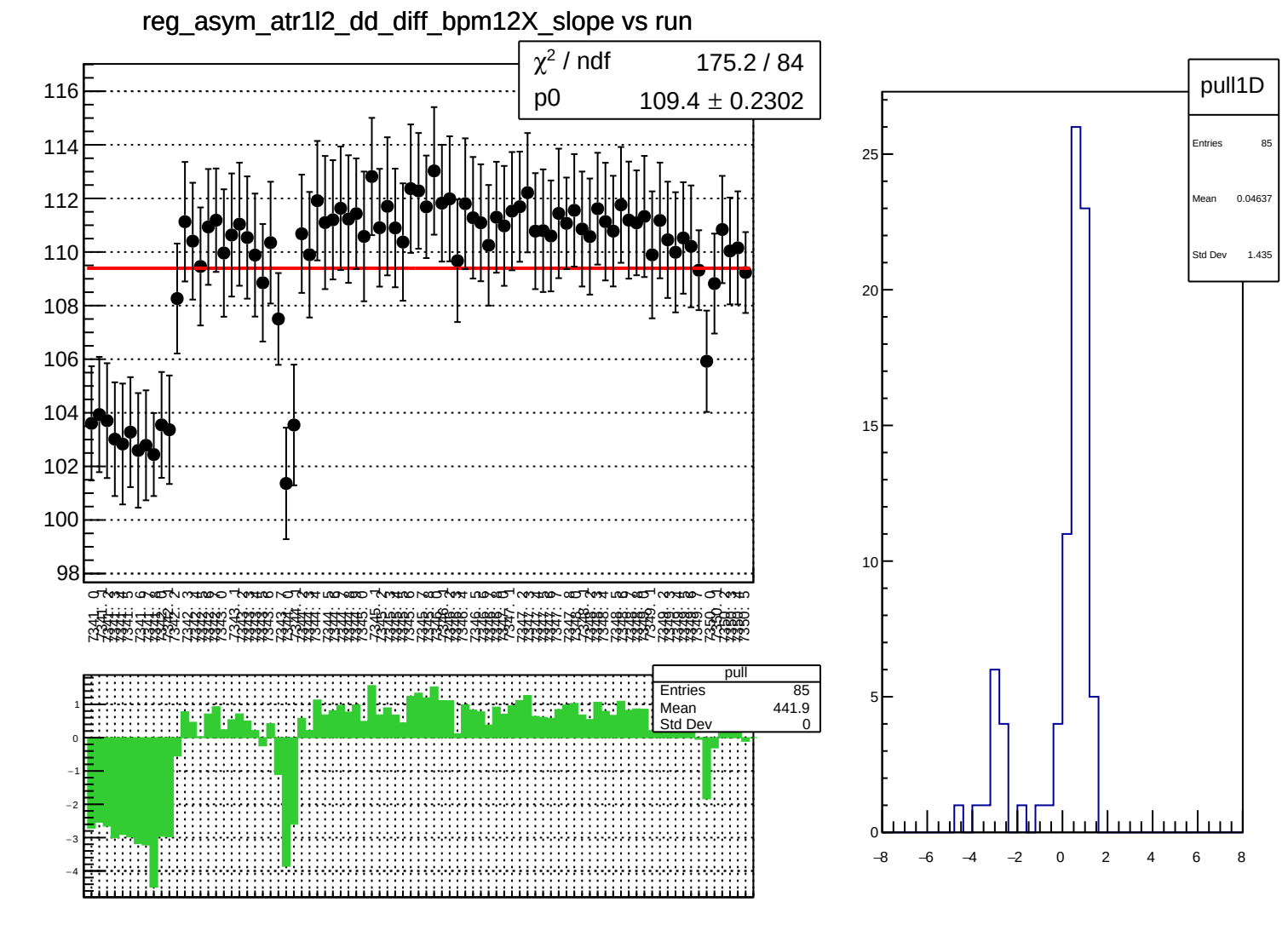

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 41.8 / 84
p0 148.8 ± 5.28
pull
Entries 85
Mean −3.086
Std Dev 0
pull1D
Entries 85
Mean 0.1081
Std Dev 0.6929

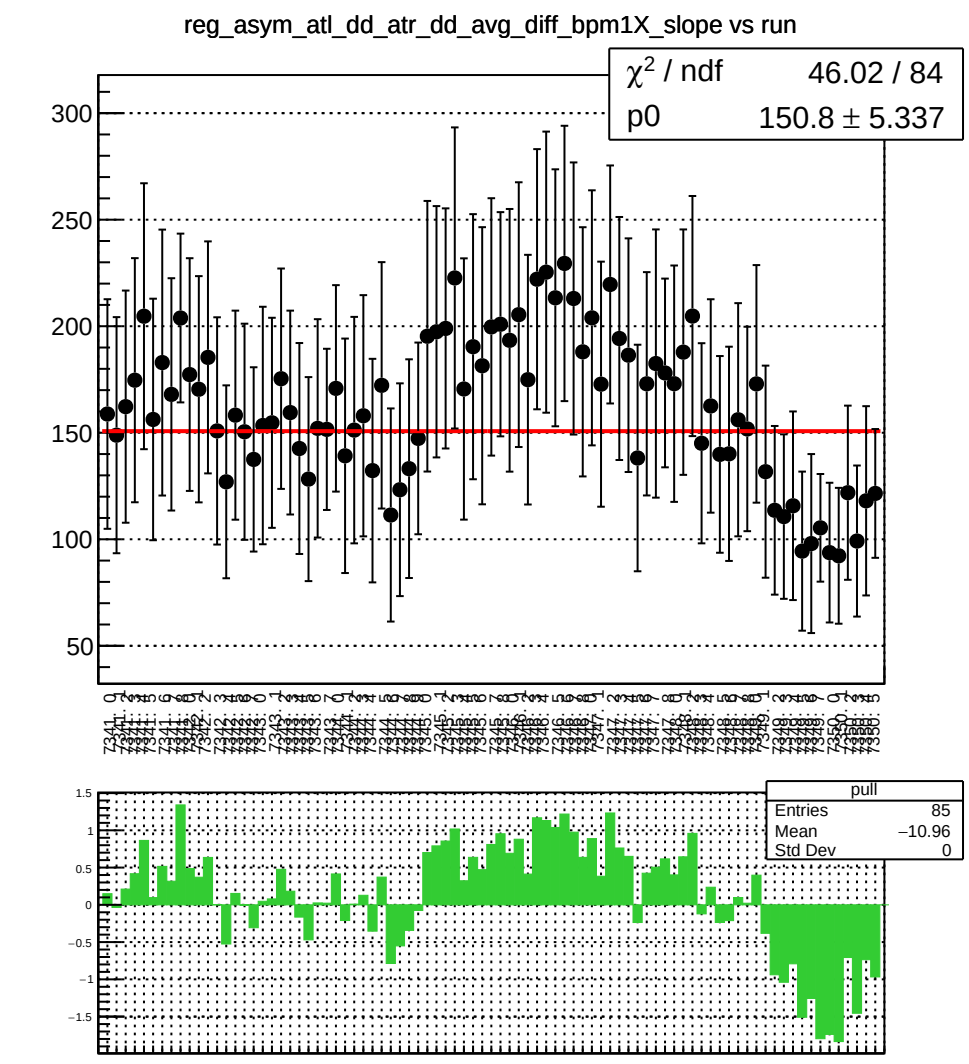

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.37 / 84
p0 23.03 ± 4.715
pull
Entries 85
Mean −607.1
Std Dev 0

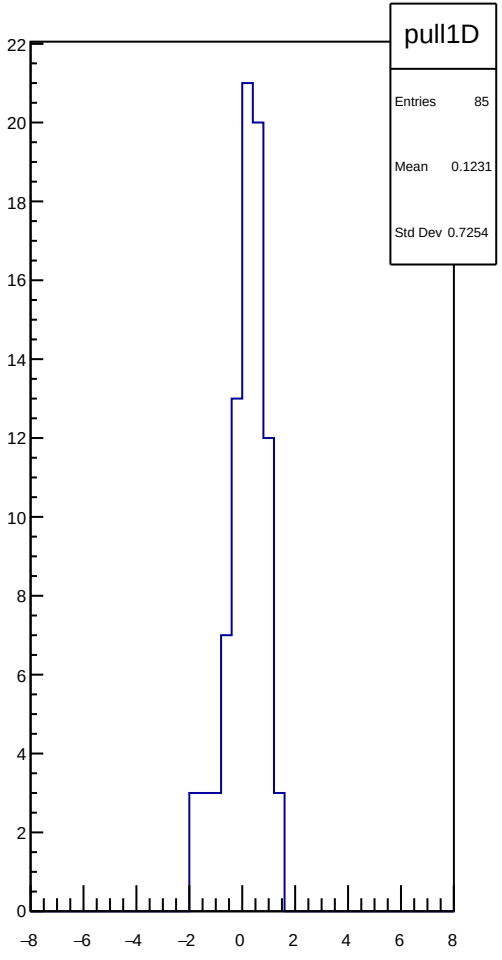

pull1D
Entries 85
Mean −0.007127
Std Dev 0.4251

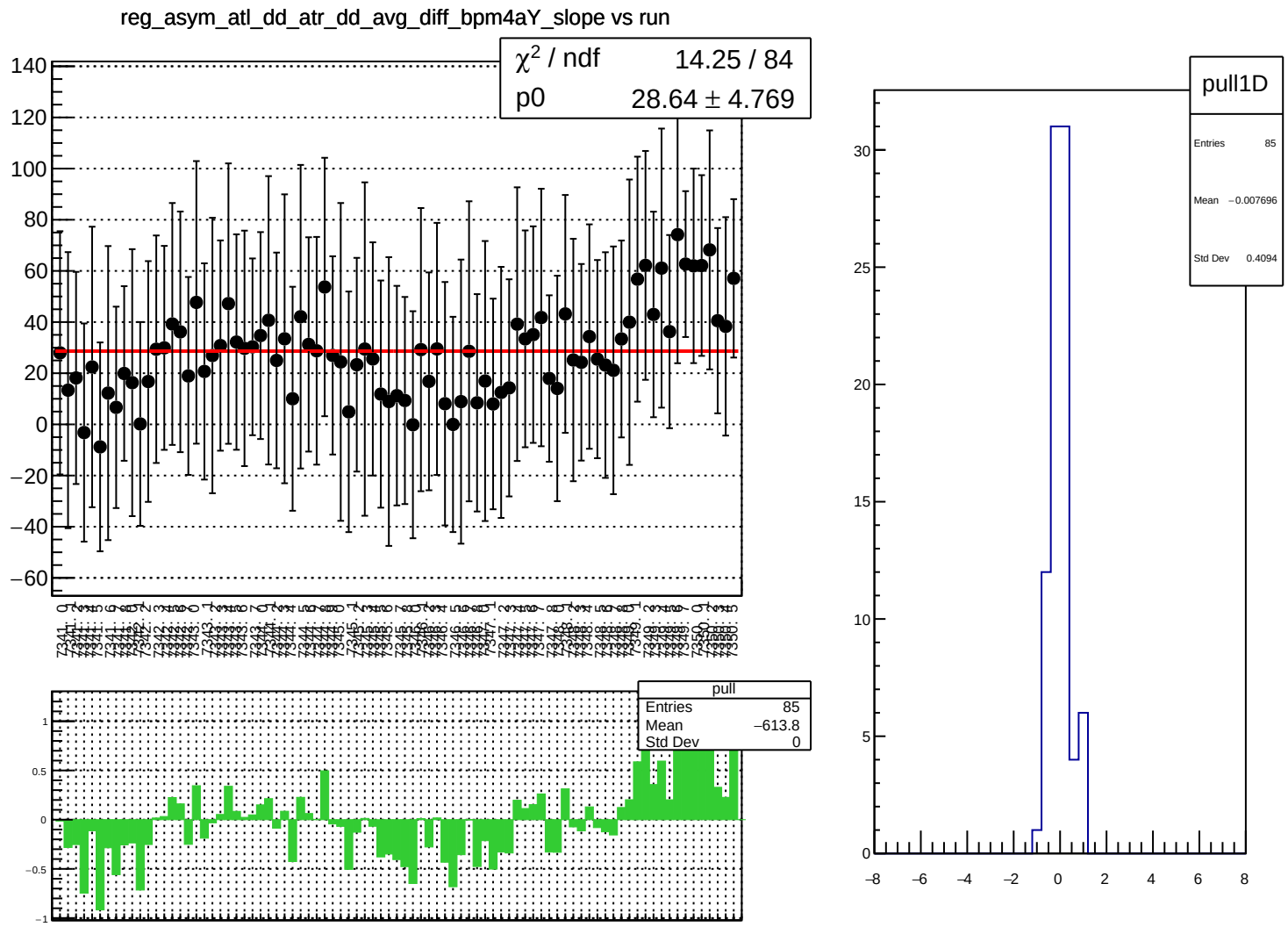

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.72 / 84
p0 −148.7 ± 5.194
pull
Entries 85
Mean −2.242
Std Dev 0
pull1D
Entries 85
Mean −0.1112
Std Dev 0.7001

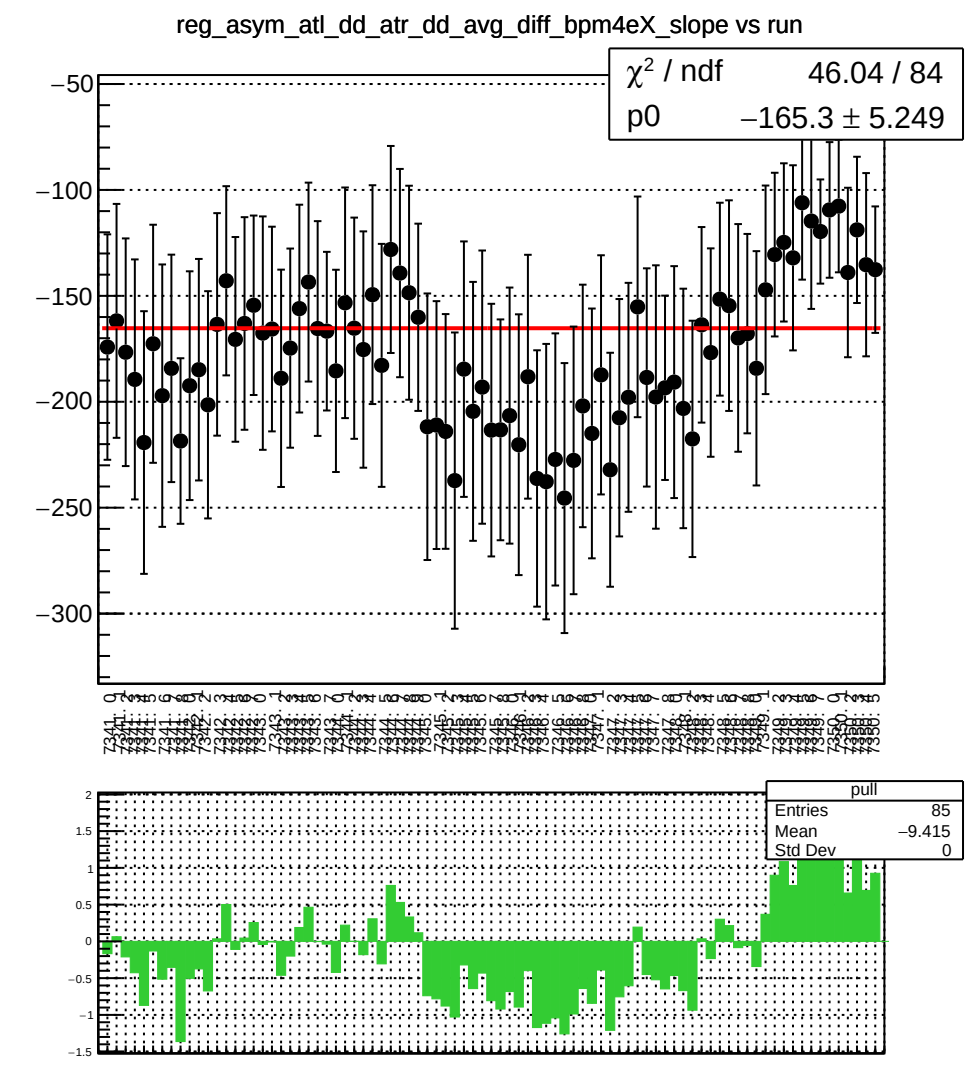

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.39 / 84
p0 −90.1 ± 5.141
pull
Entries 85
Mean −337.3
Std Dev 0
pull1D
Entries 85
Mean 0.01311
Std Dev 0.4521

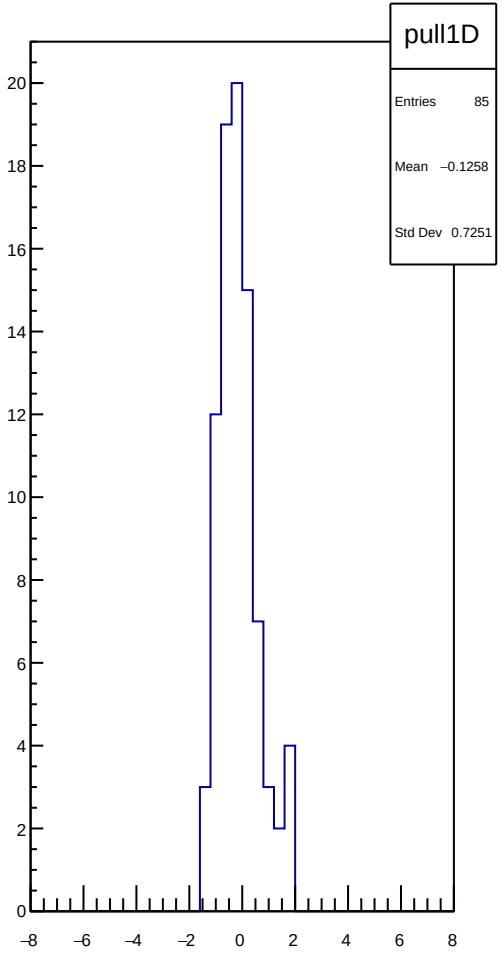

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 175.2 / 84
p0 109.4 ± 0.2302
pull
Entries 85
Mean 441.9
Std Dev 0
pull1D
Entries 85
Mean 0.04637
Std Dev 1.435

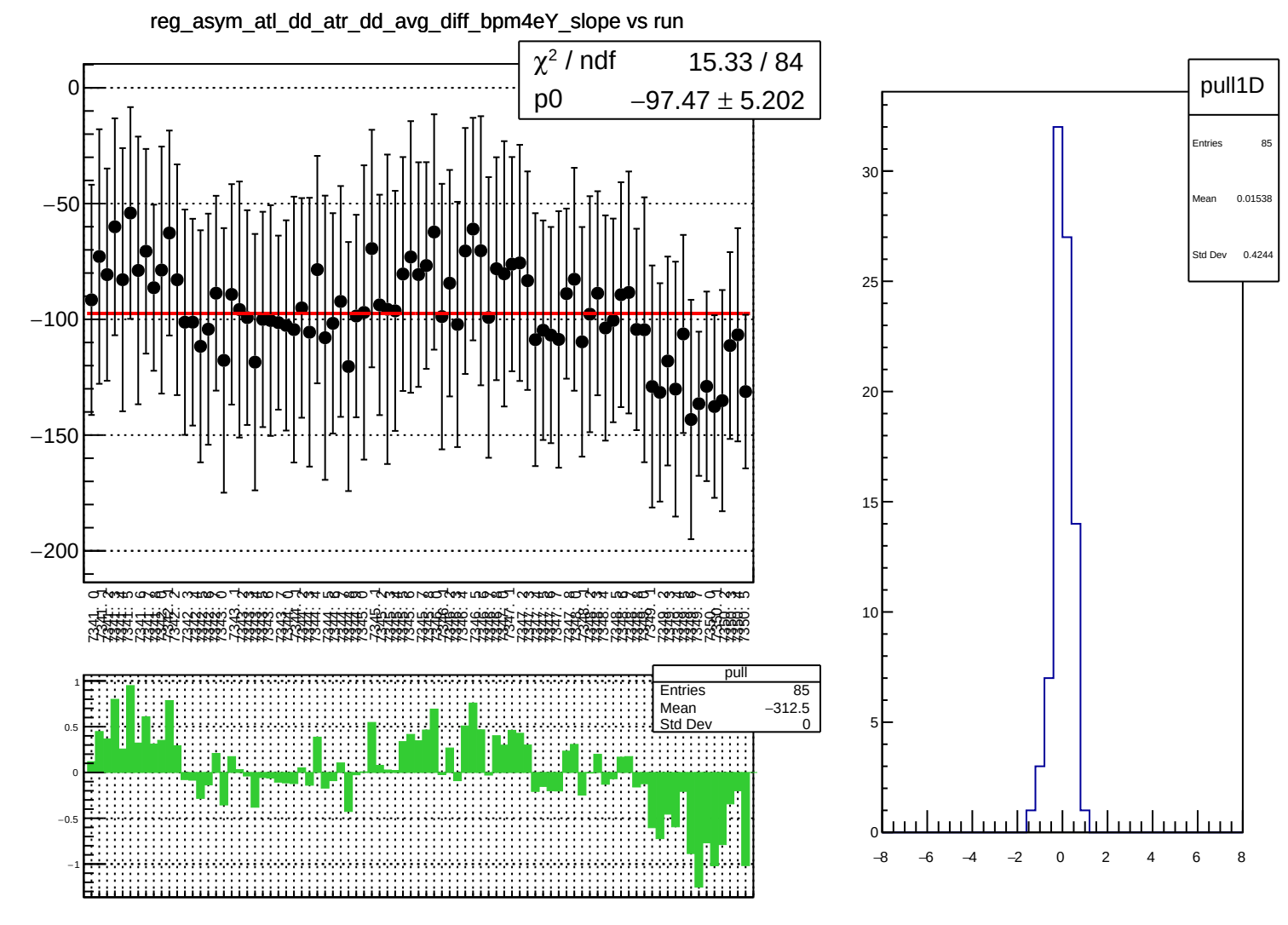

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 46.02 / 84
p0 150.8 ± 5.337
pull
Entries 85
Mean −10.96
Std Dev 0

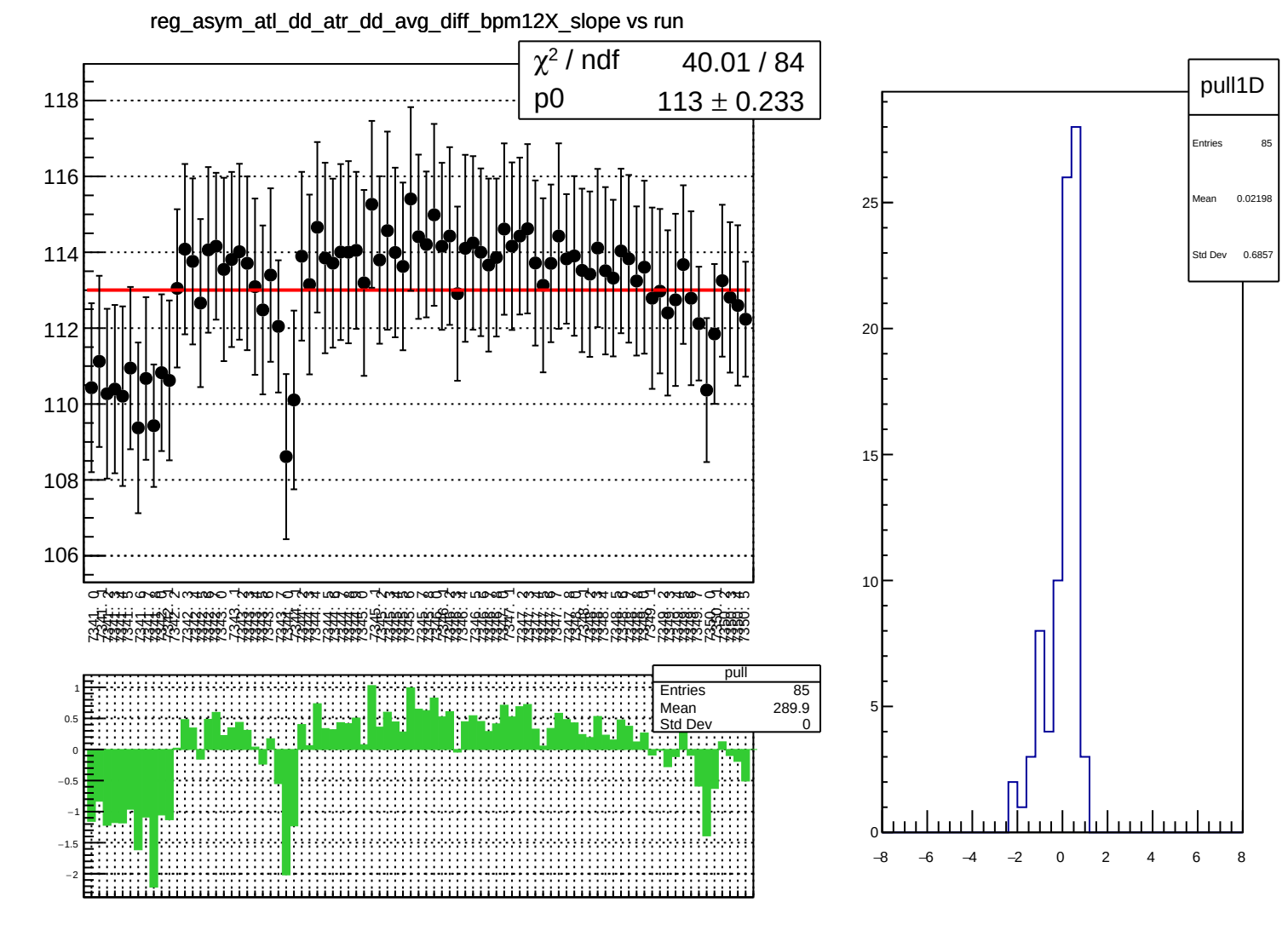

pull1D
Entries 85
Mean 0.1231
Std Dev 0.7254

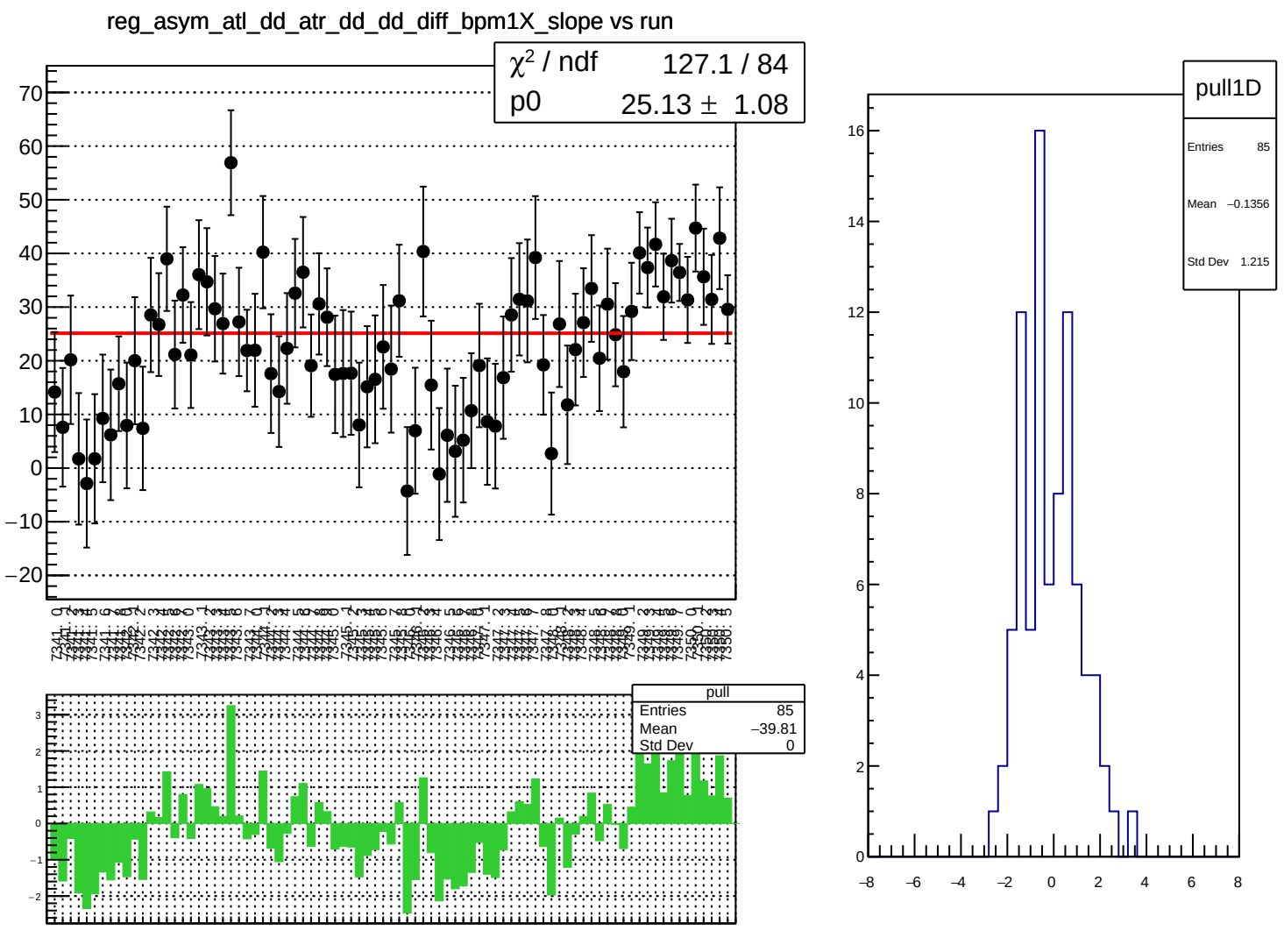

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.25 / 84
p0 28.64 ± 4.769
pull
Entries 85
Mean −613.8
Std Dev 0
pull1D
Entries 85
Mean −0.007696
Std Dev 0.4094

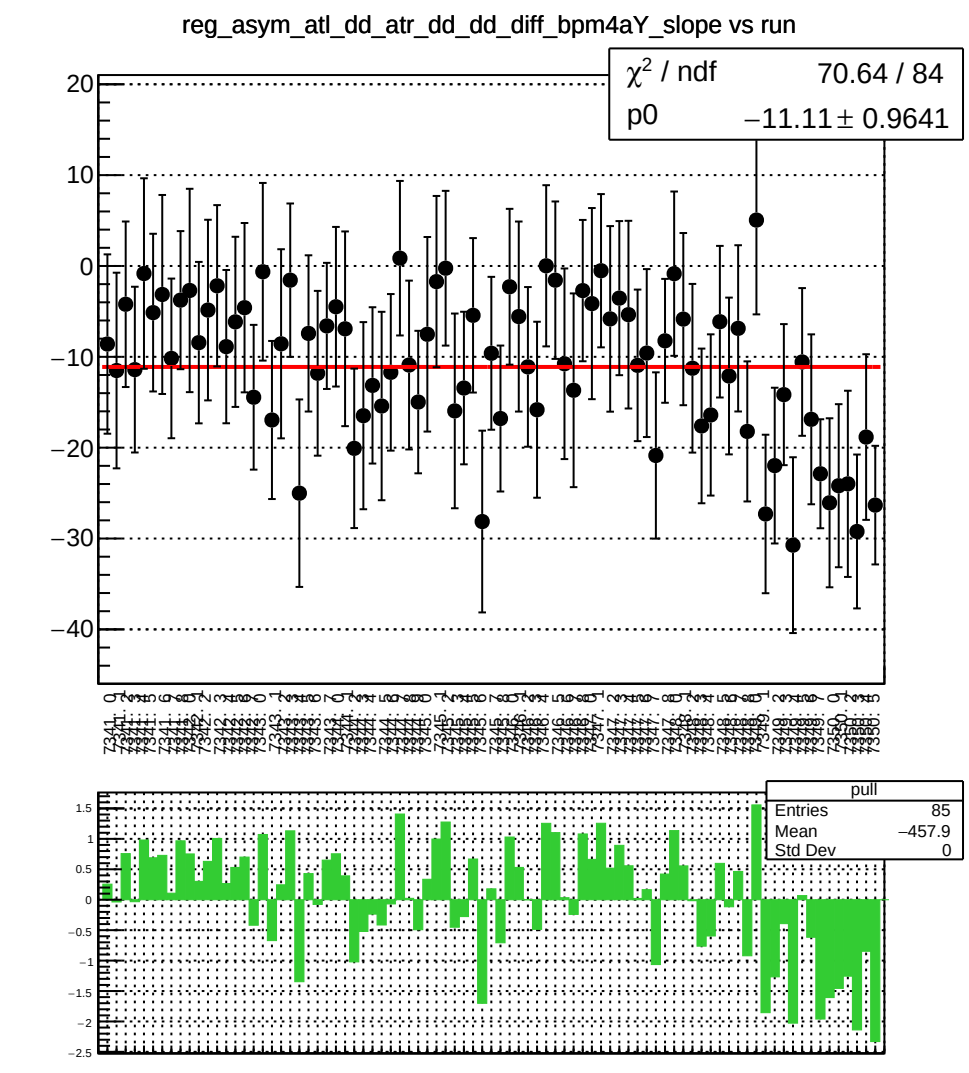

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.04 / 84
p0 −165.3 ± 5.249
pull
Entries 85
Mean −9.415
Std Dev 0

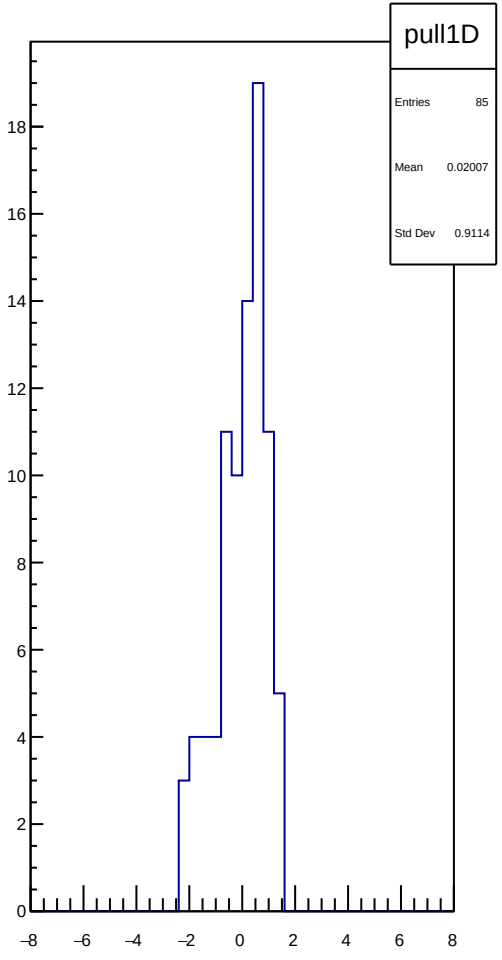

pull1D
Entries 85
Mean −0.1258
Std Dev 0.7251

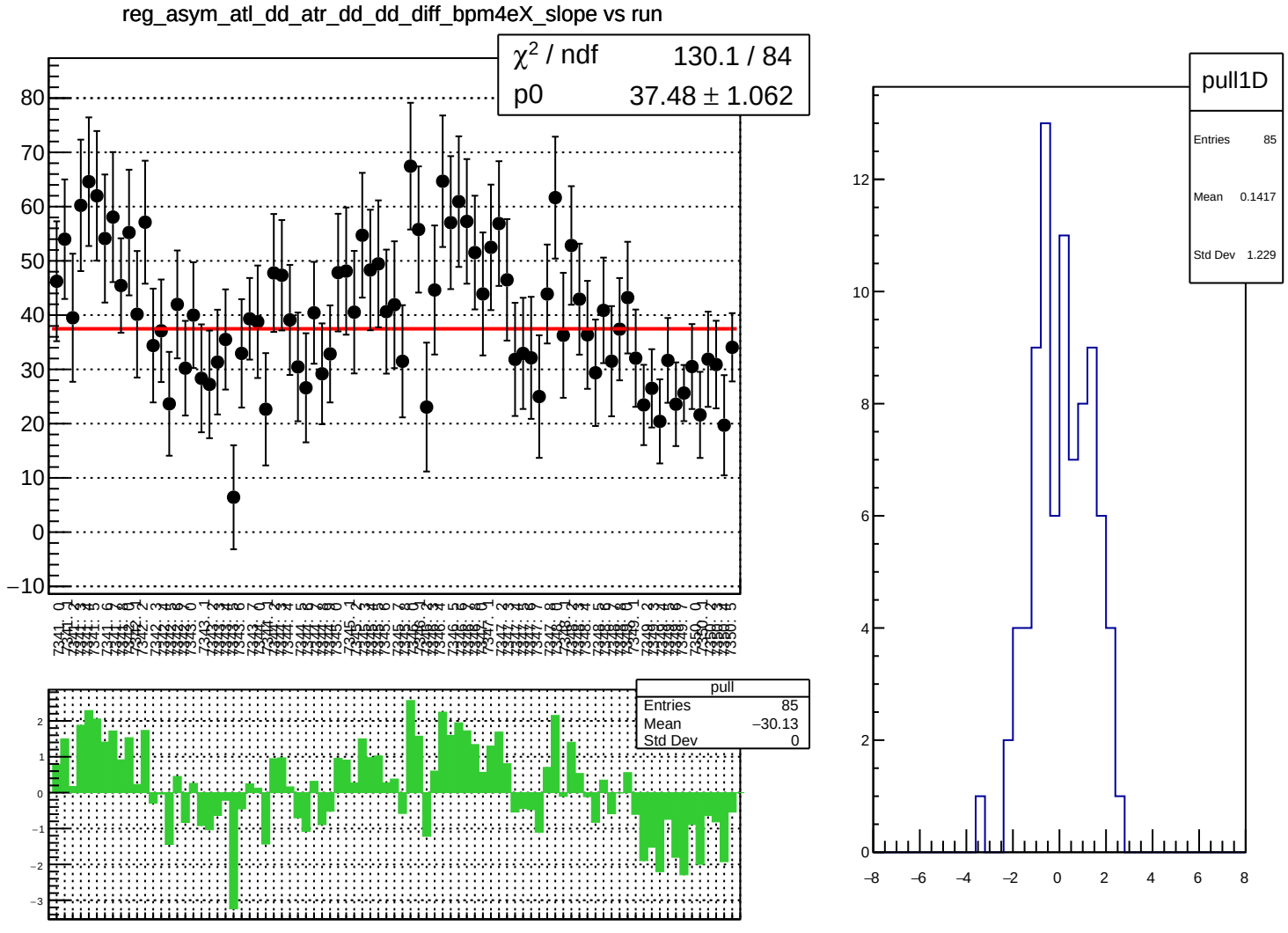

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.33 / 84
p0 −97.47 ± 5.202
pull
Entries 85
Mean −312.5
Std Dev 0
pull1D
Entries 85
Mean 0.01538
Std Dev 0.4244

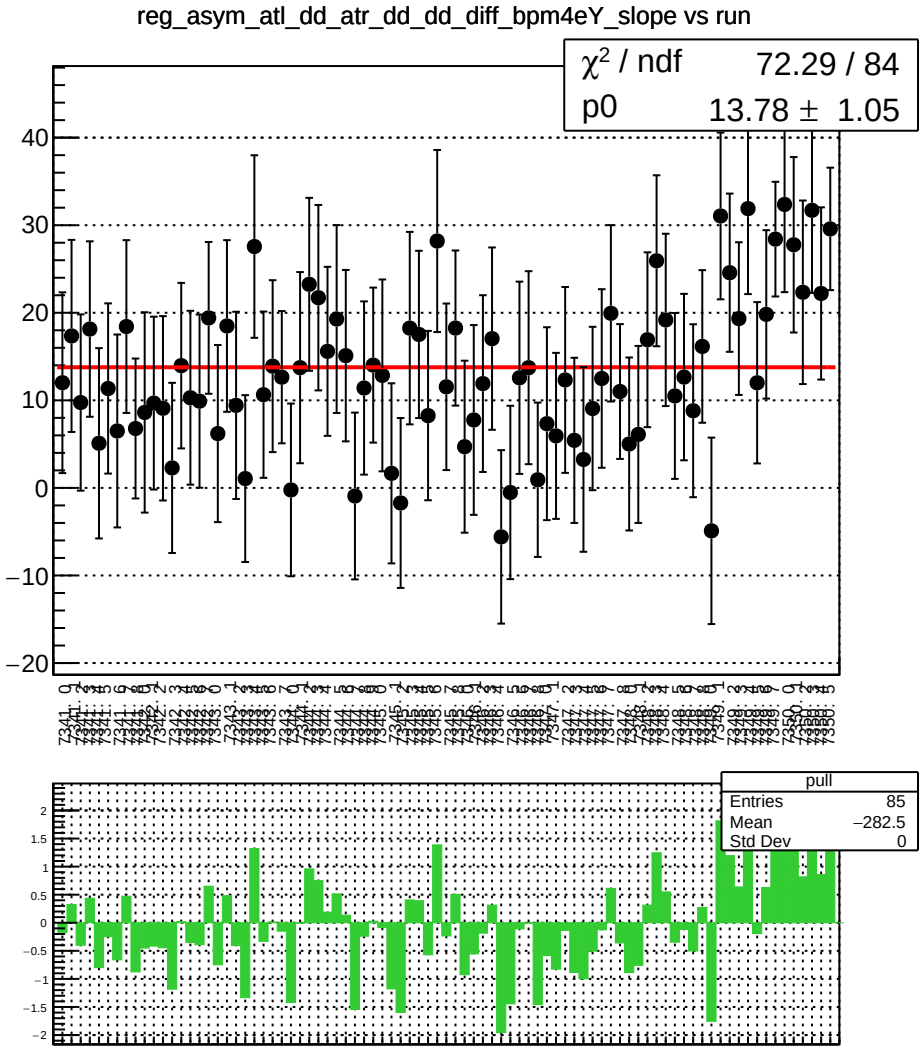

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 40.01 / 84
p0 113 ± 0.233
pull
Entries 85
Mean 289.9
Std Dev 0
pull1D
Entries 85
Mean 0.02198
Std Dev 0.6857

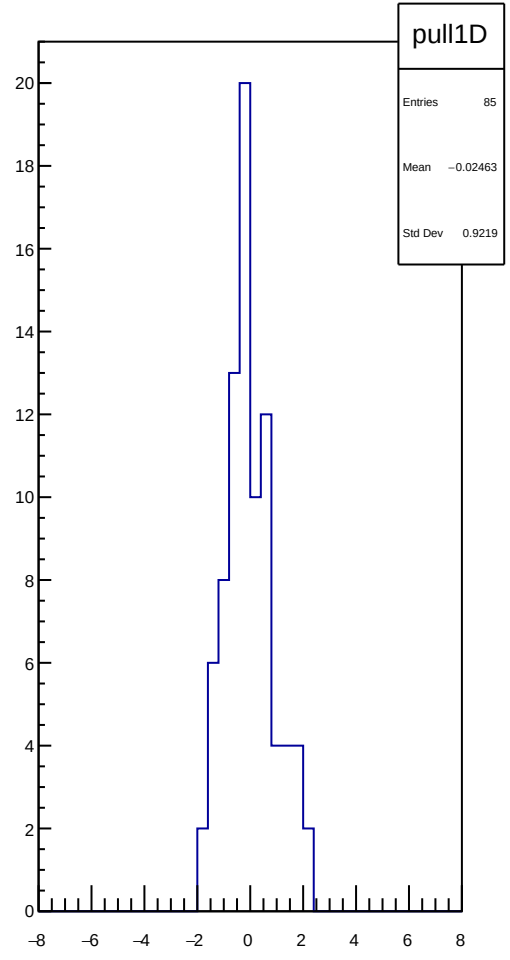

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 127.1 / 84
p0 25.13 ± 1.08
pull
Entries 85
Mean −39.81
Std Dev 0
pull1D
Entries 85
Mean −0.1356
Std Dev 1.215

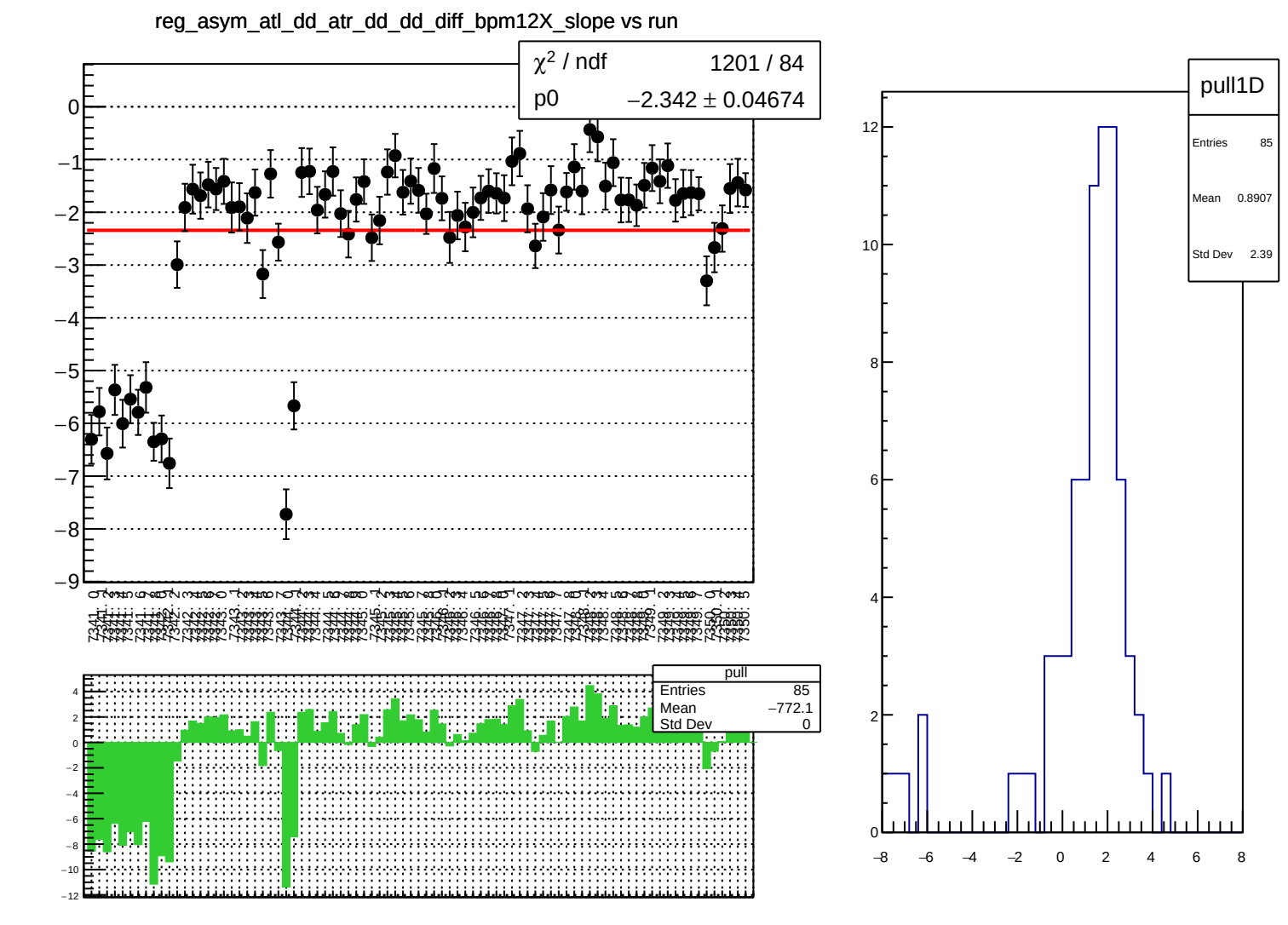

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.64 / 84
p0 −11.11 ± 0.9641
pull
Entries 85
Mean −457.9
Std Dev 0

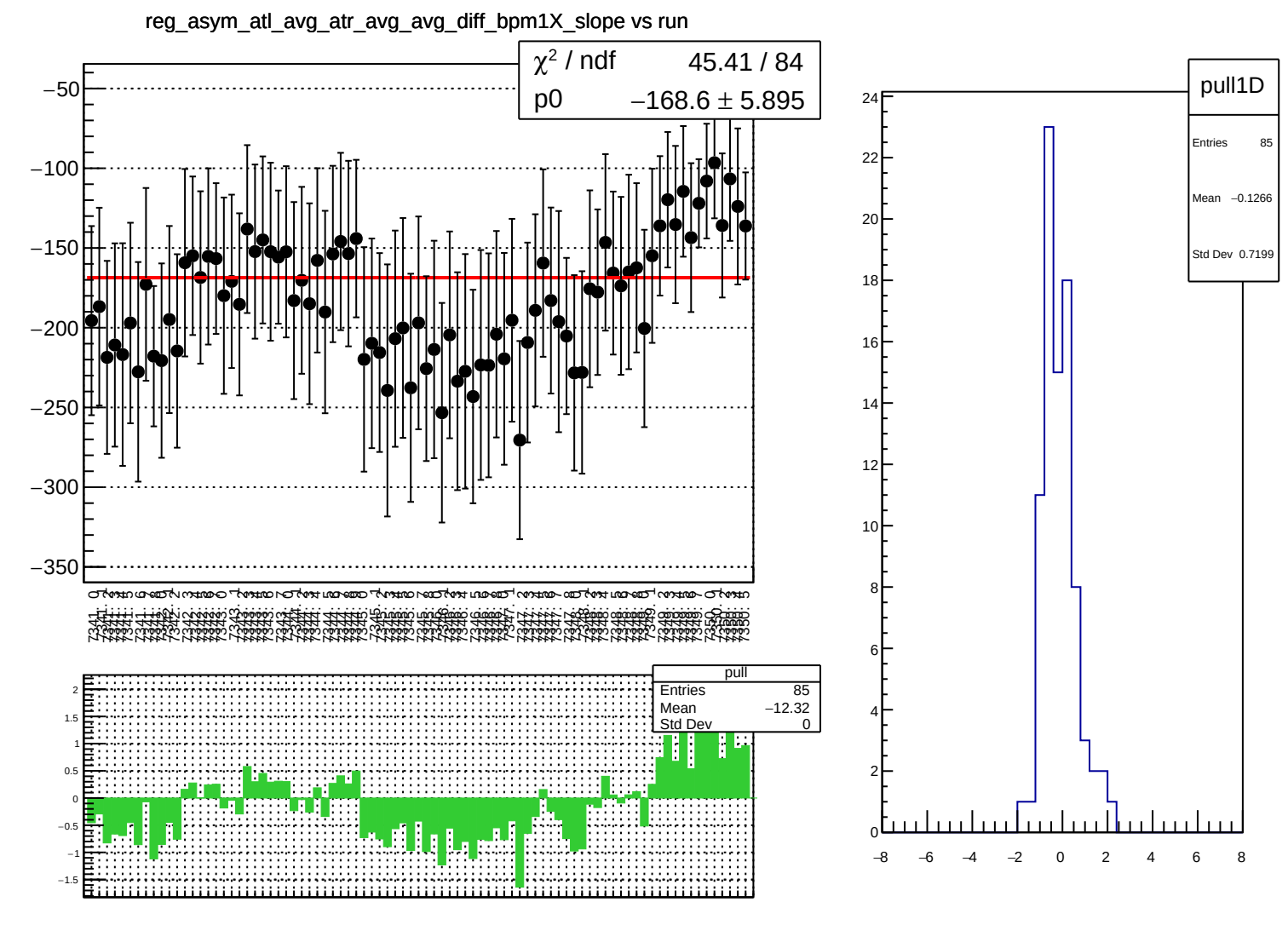

pull1D
Entries 85
Mean 0.02007
Std Dev 0.9114

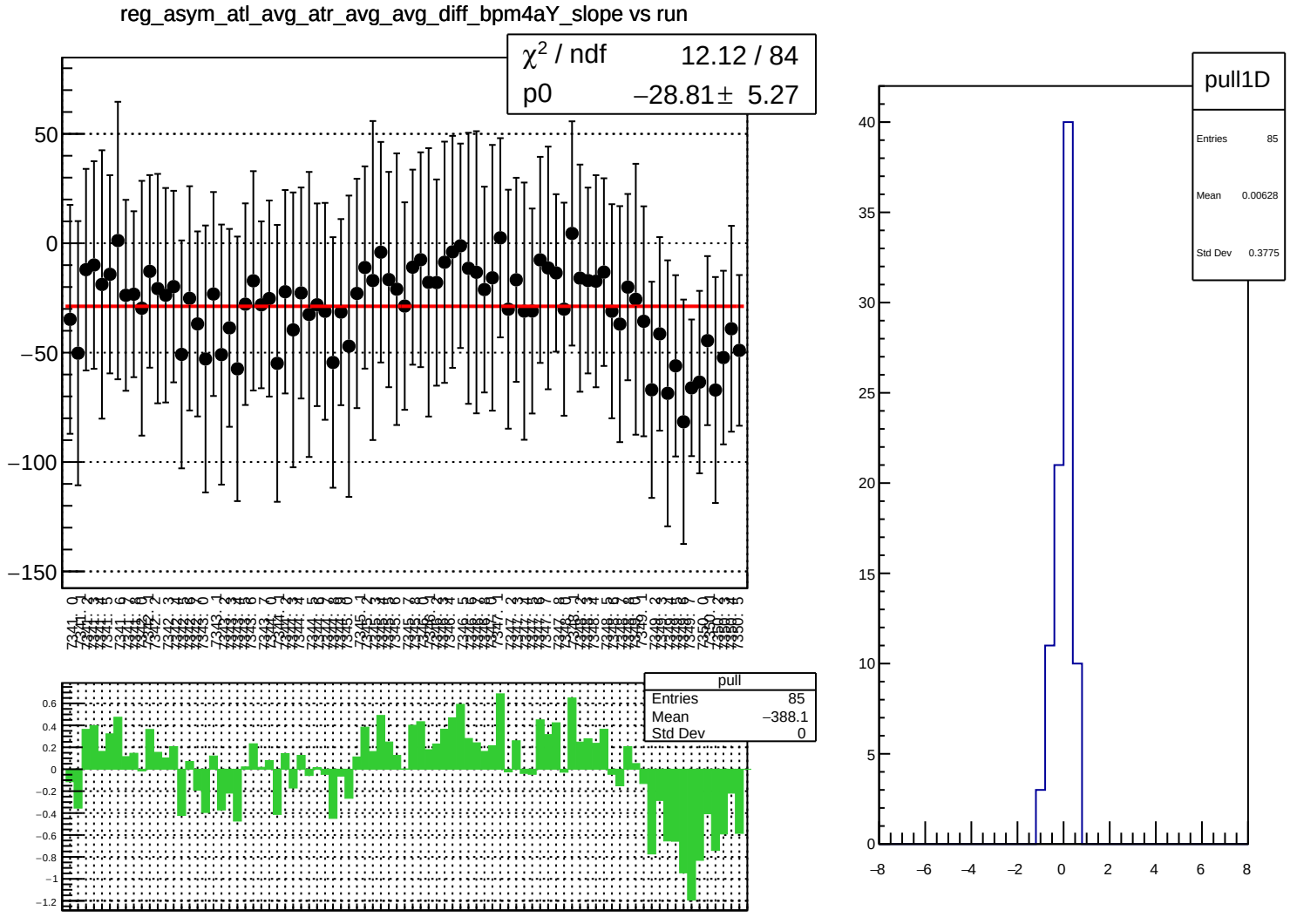

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 130.1 / 84
p0 37.48 ± 1.062
pull
Entries 85
Mean −30.13
Std Dev 0
pull1D
Entries 85
Mean 0.1417
Std Dev 1.229

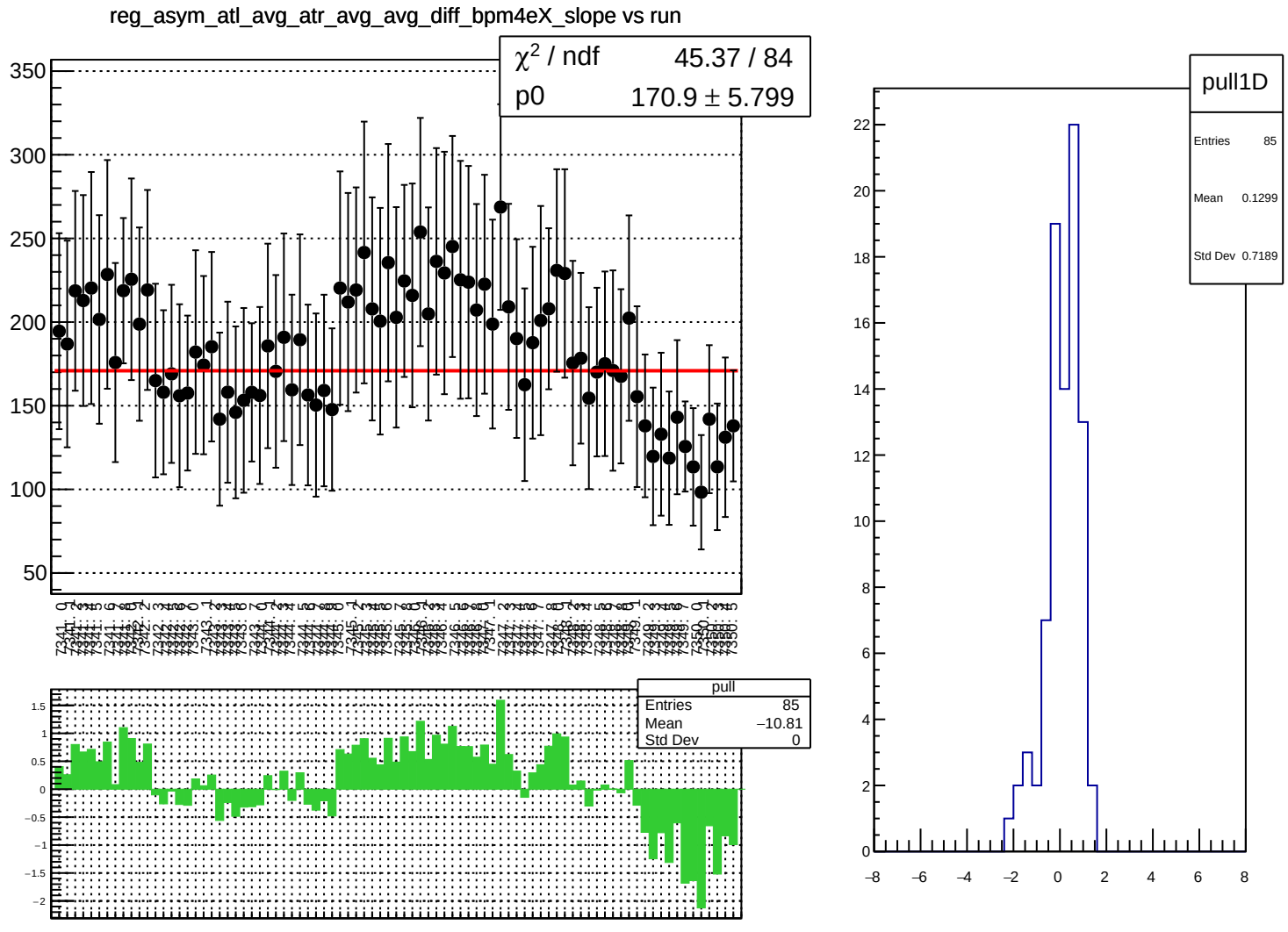

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.29 / 84
p0 13.78 ± 1.05
pull
Entries 85
Mean −282.5
Std Dev 0

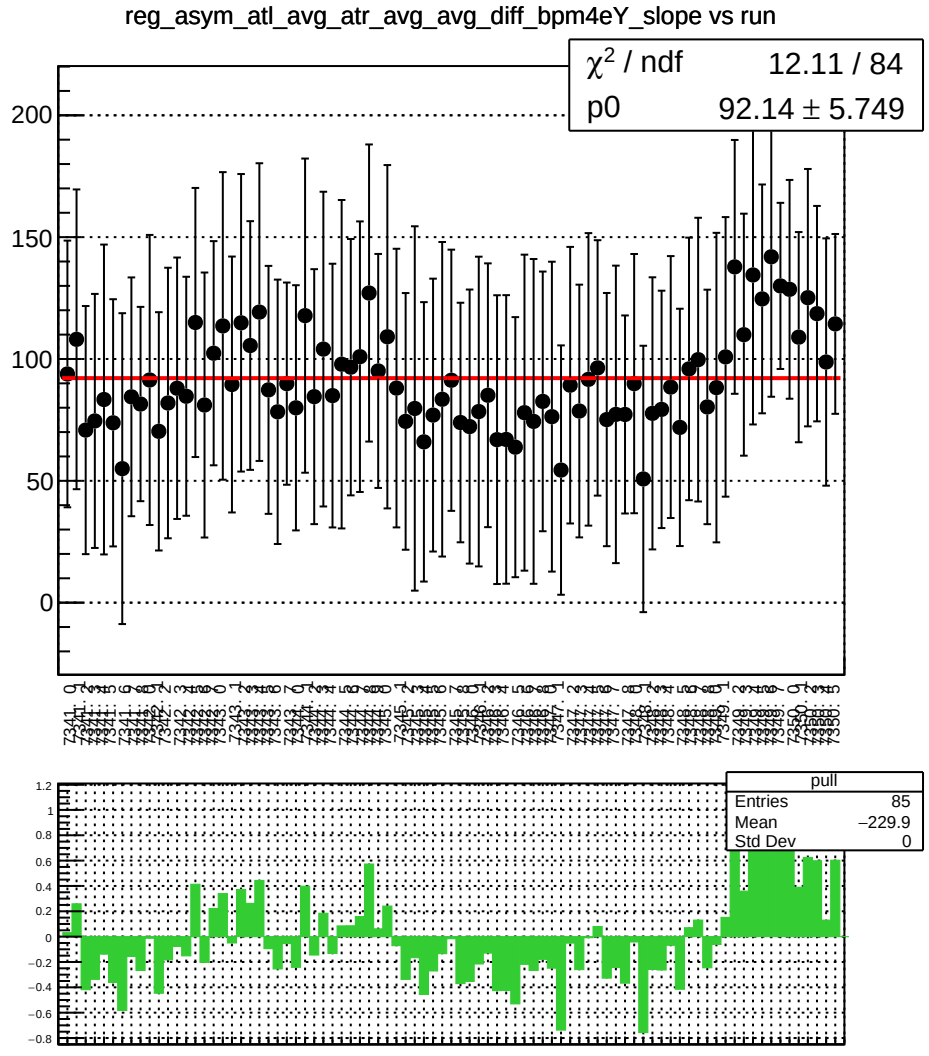

pull1D
Entries 85
Mean −0.02463
Std Dev 0.9219

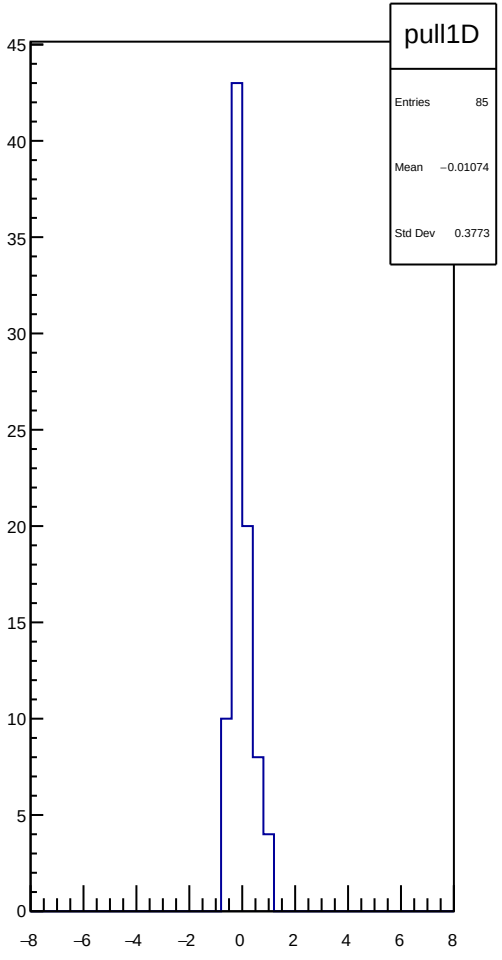

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 1201 / 84
p0 −2.342 ± 0.04674
pull
Entries 85
Mean −772.1
Std Dev 0
pull1D
Entries 85
Mean 0.8907
Std Dev 2.39

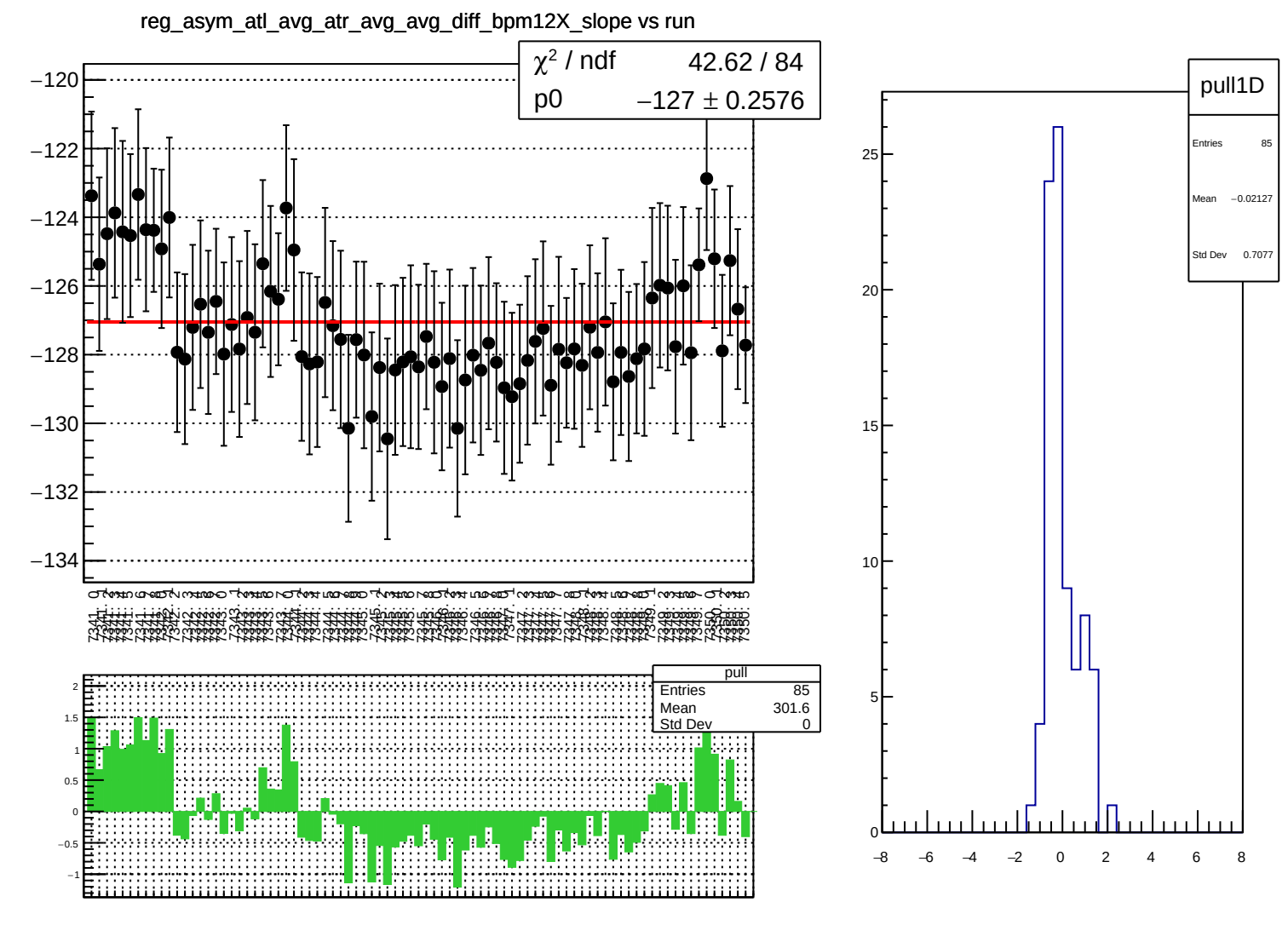

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 45.41 / 84
p0 −168.6 ± 5.895
pull
Entries 85
Mean −12.32
Std Dev 0
pull1D
Entries 85
Mean −0.1266
Std Dev 0.7199

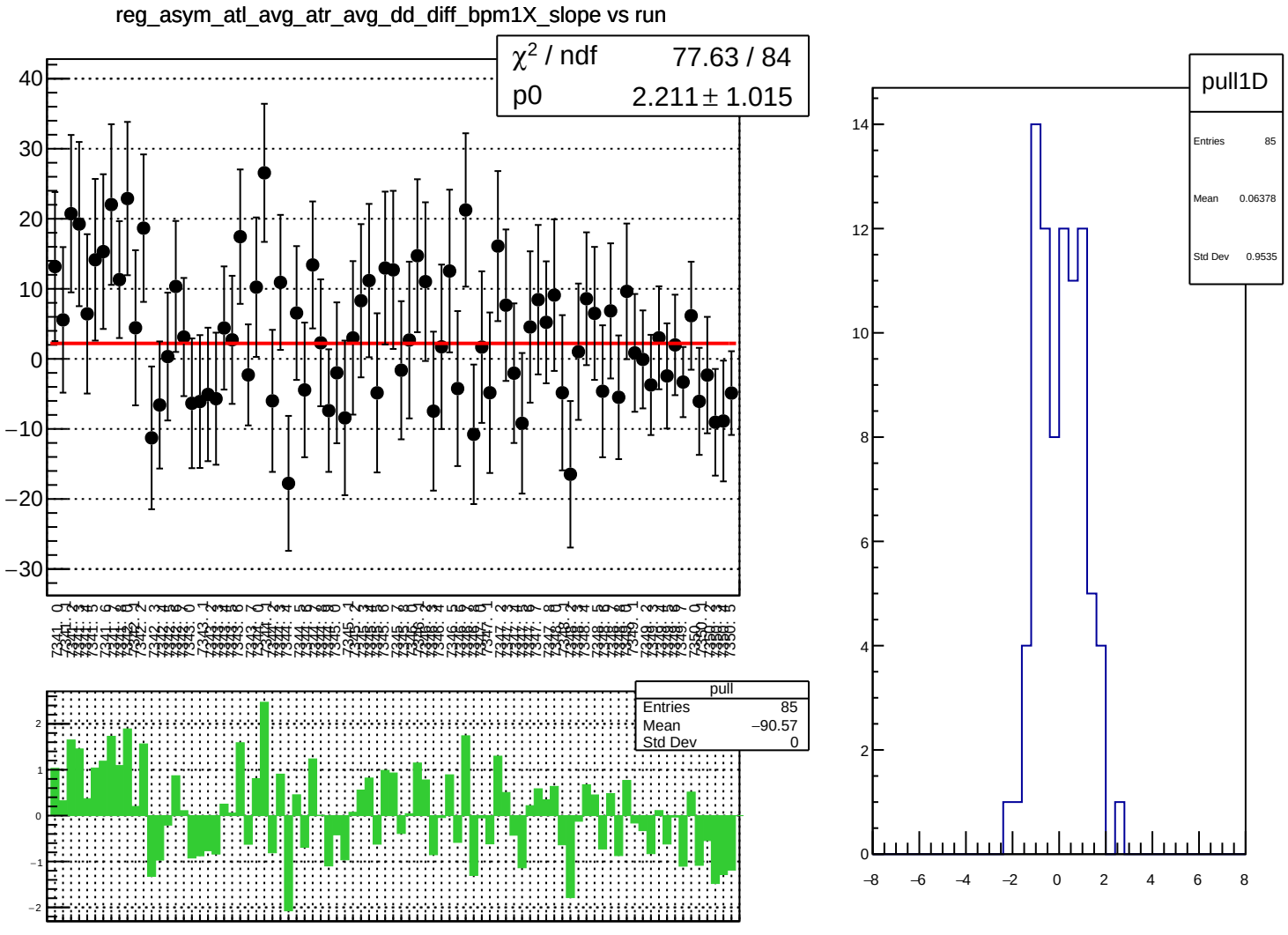

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.12 / 84
p0 −28.81 ± 5.27
50
0
−50
−100
−150
pull
Entries 85
Mean −388.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 85
Mean 0.00628
Std Dev 0.3775
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

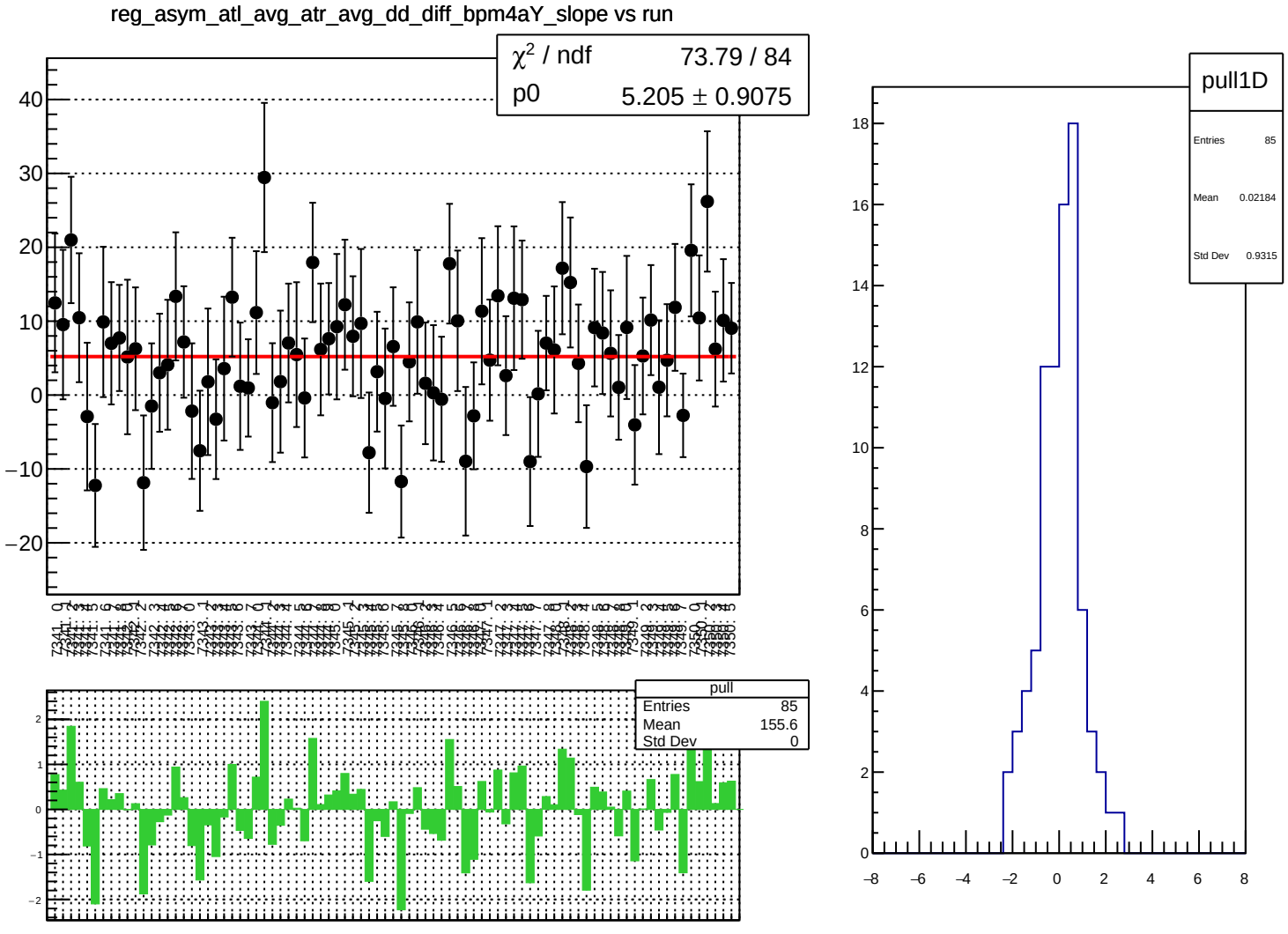

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.37 / 84
p0 170.9 ± 5.799
pull
Entries 85
Mean −10.81
Std Dev 0
pull1D
Entries 85
Mean 0.1299
Std Dev 0.7189

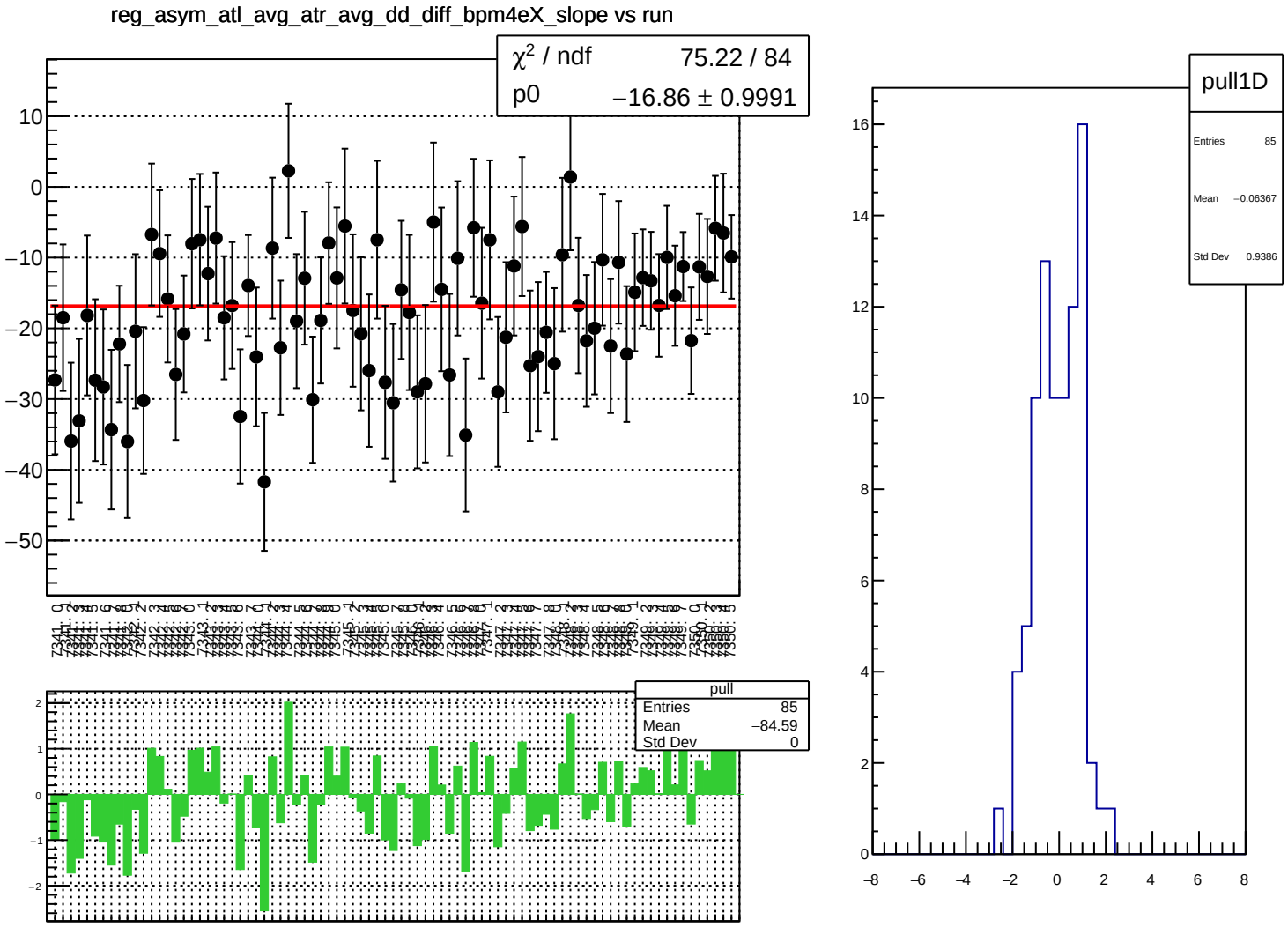

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.11 / 84
p0 92.14 ± 5.749
pull
Entries 85
Mean −229.9
Std Dev 0

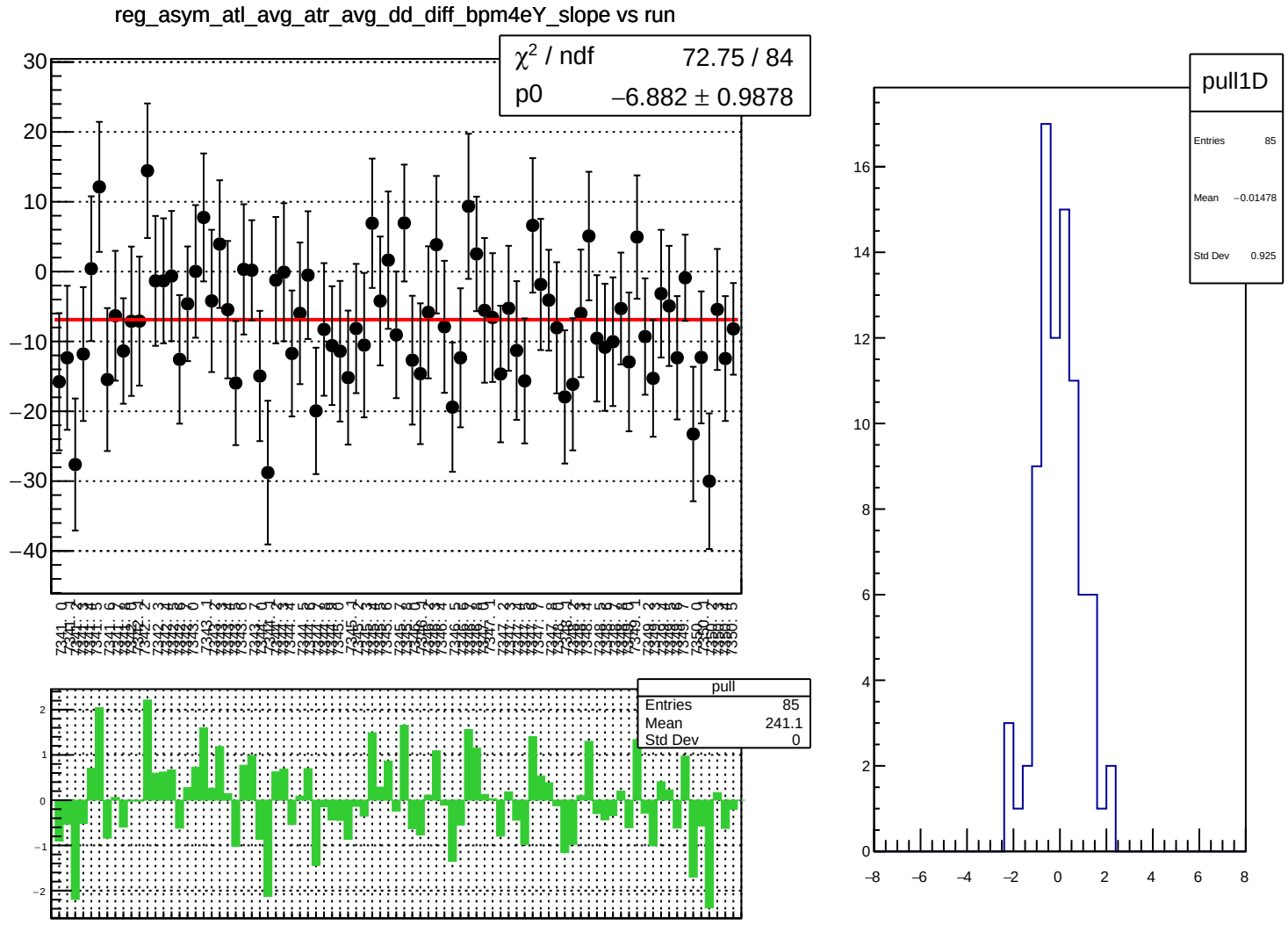

pull1D
Entries 85
Mean −0.01074
Std Dev 0.3773

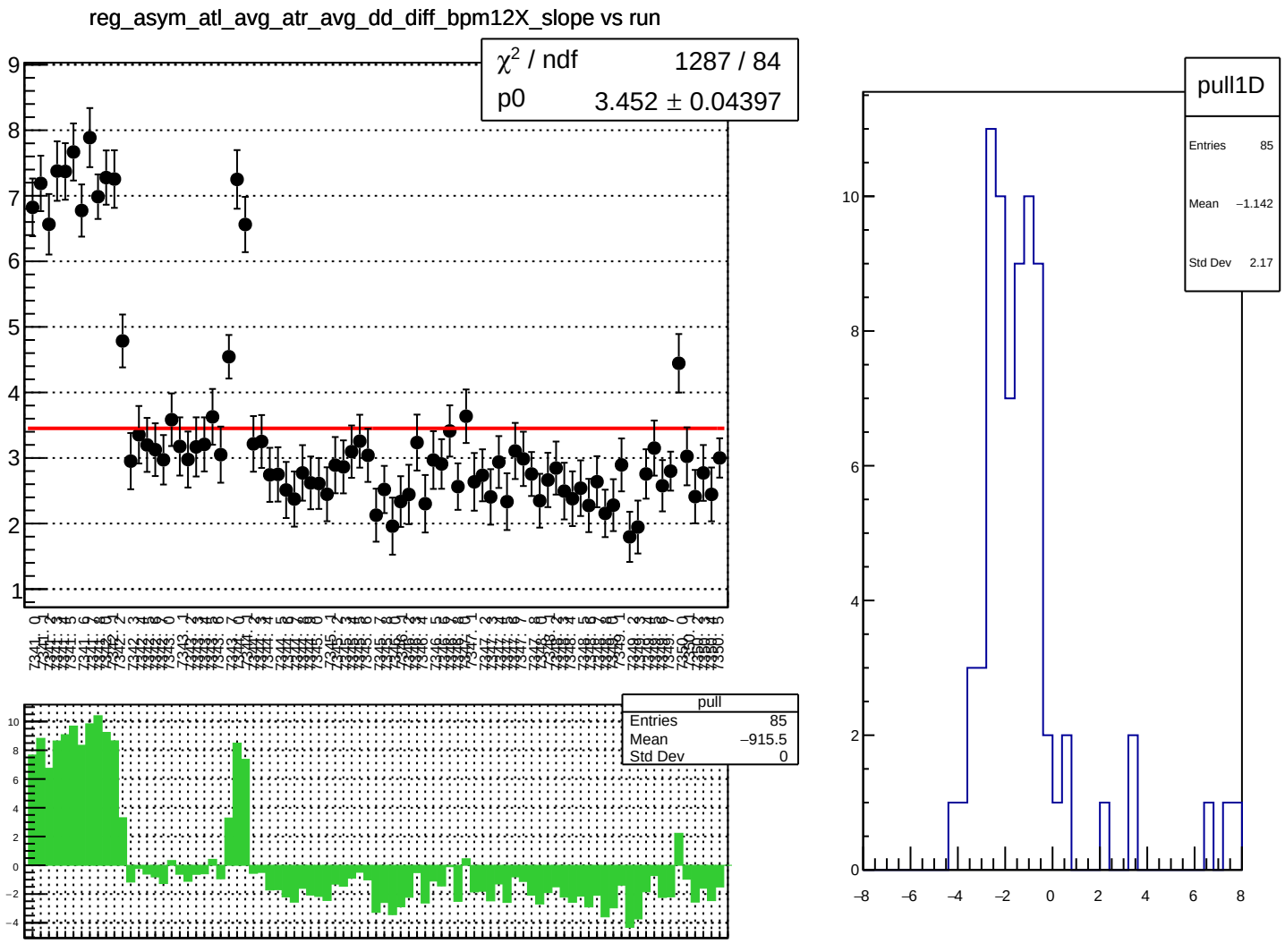

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 42.62 / 84
p0 −127 ± 0.2576
−120
−122
−124
−126
−128
−130
−132
−134
pull
Entries 85
Mean 301.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 85
Mean −0.02127
Std Dev 0.7077
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

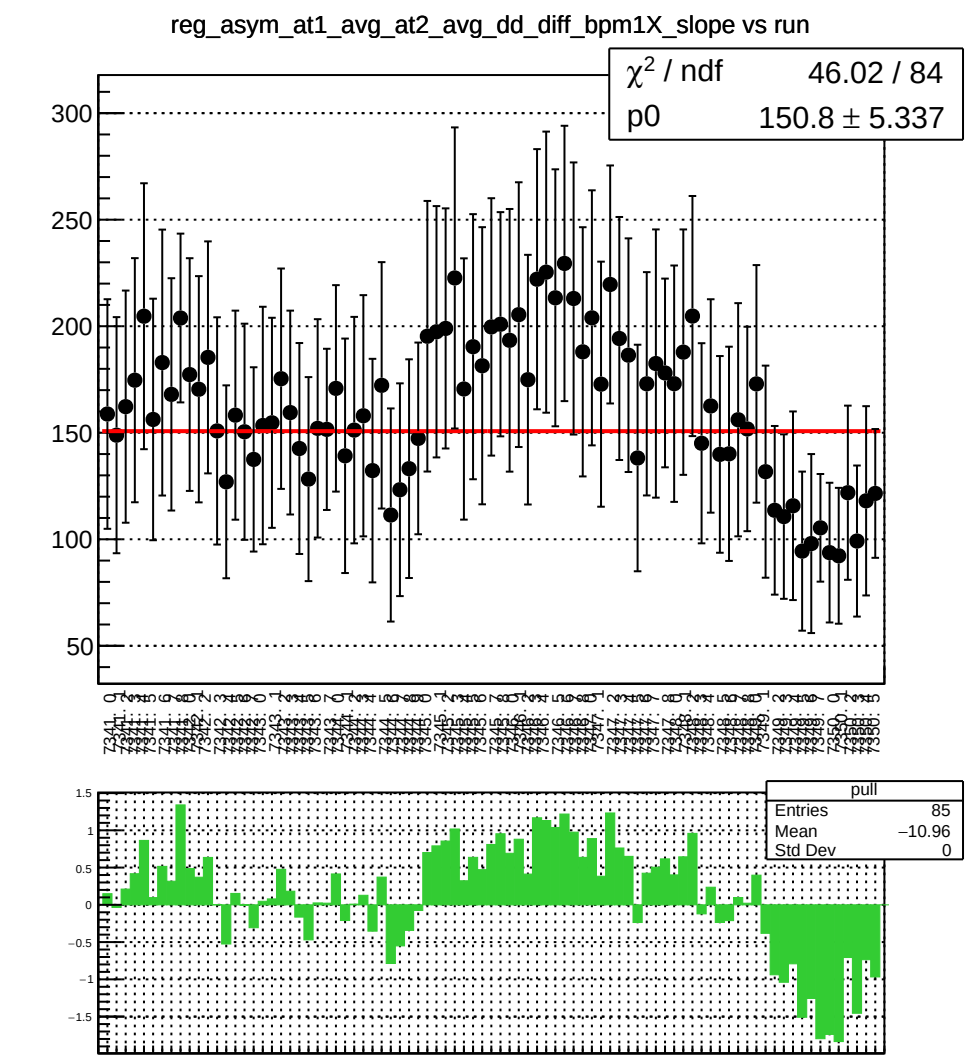

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 77.63 / 84
p0 2.211 ± 1.015
pull
Entries 85
Mean −90.57
Std Dev 0
pull1D
Entries 85
Mean 0.06378
Std Dev 0.9535

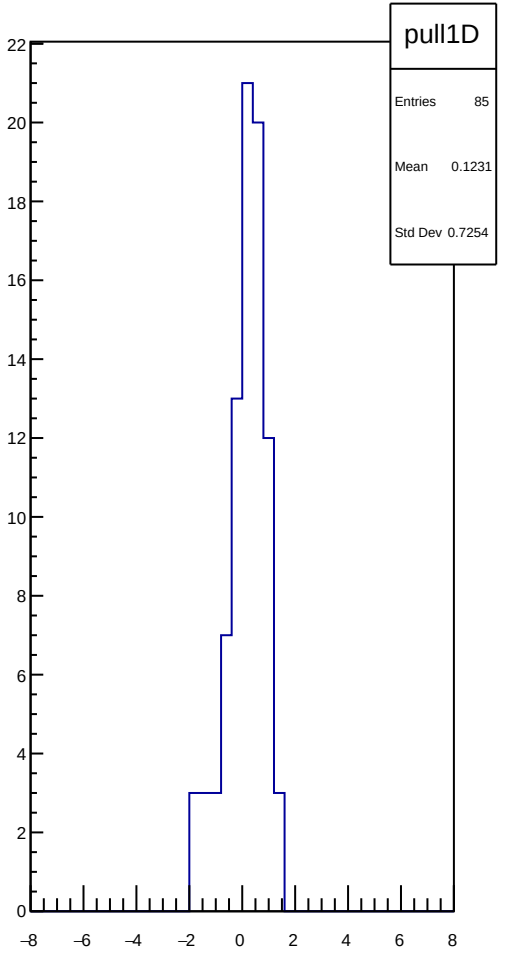

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.79 / 84
p0 5.205 ± 0.9075
pull
Entries 85
Mean 155.6
Std Dev 0
pull1D
Entries 85
Mean 0.02184
Std Dev 0.9315

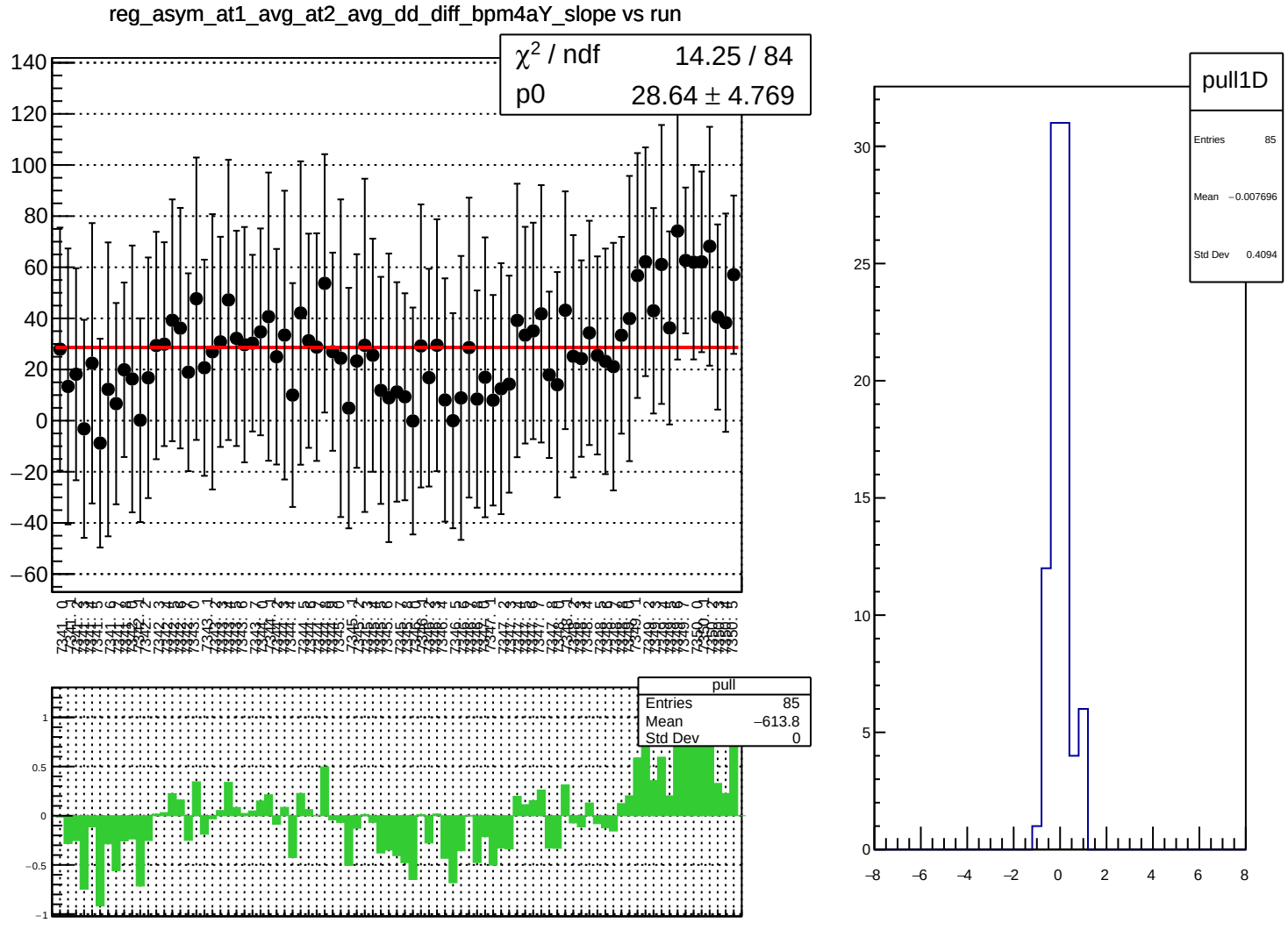

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.22 / 84
p0 −16.86 ± 0.9991
pull
Entries 85
Mean −84.59
Std Dev 0
pull1D
Entries 85
Mean −0.06367
Std Dev 0.9386

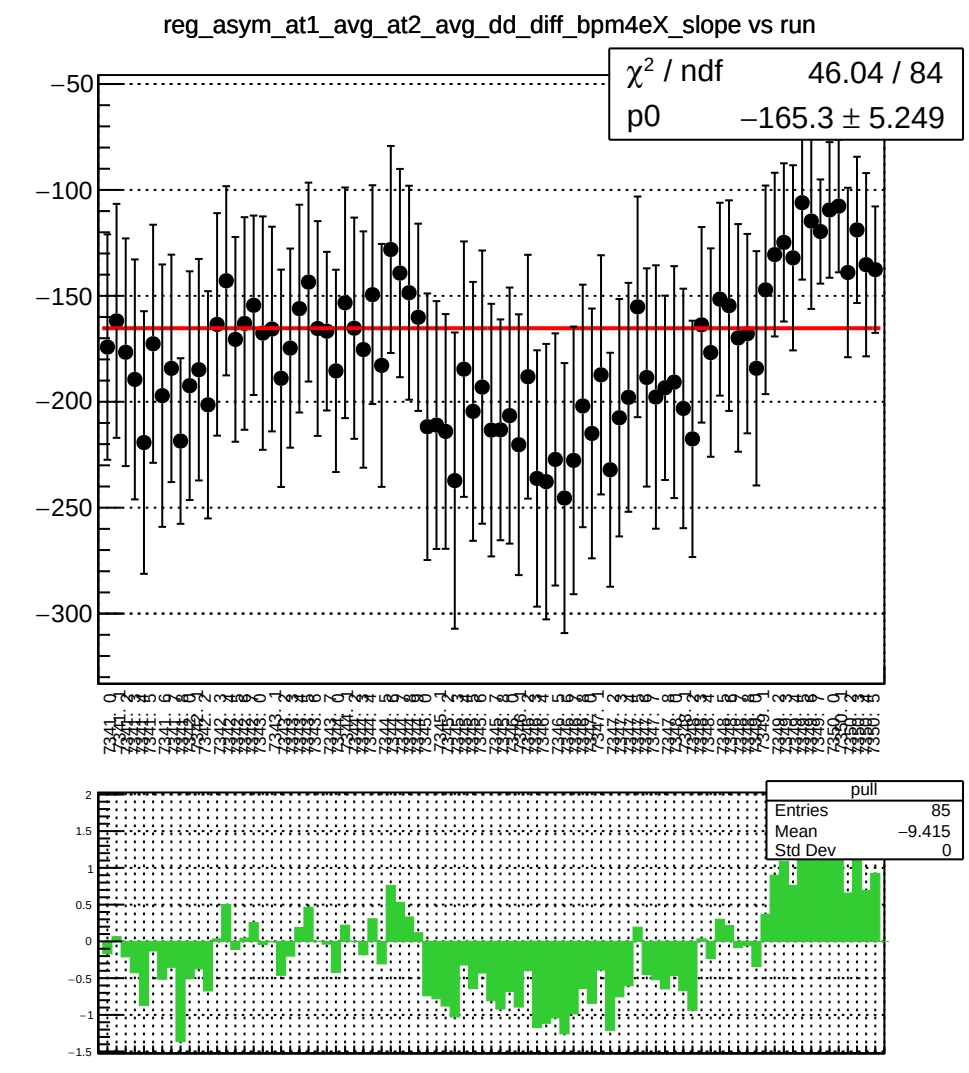

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.75 / 84
p0 −6.882 ± 0.9878
pull
Entries 85
Mean 241.1
Std Dev 0
pull1D
Entries 85
Mean −0.01478
Std Dev 0.925

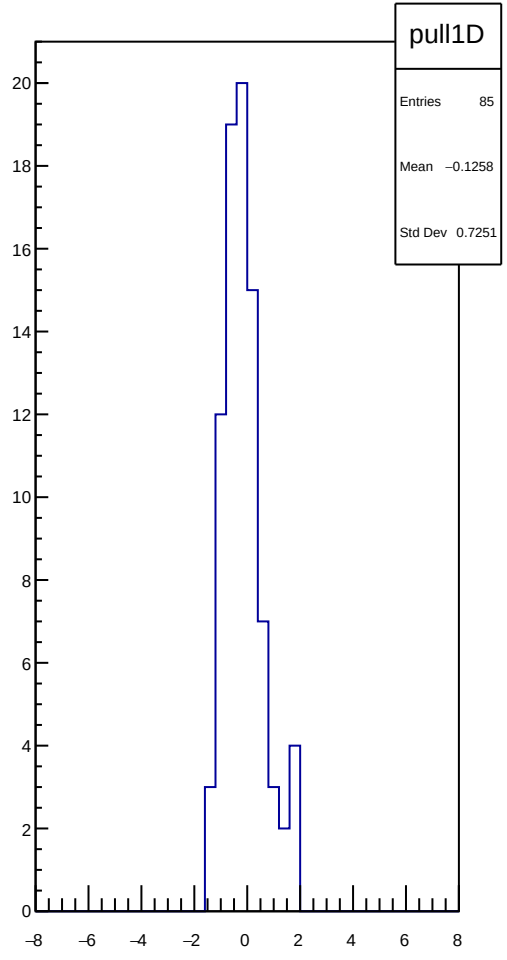

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1287 / 84
p0 3.452 ± 0.04397
pull
Entries 85
Mean −915.5
Std Dev 0
pull1D
Entries 85
Mean −1.142
Std Dev 2.17

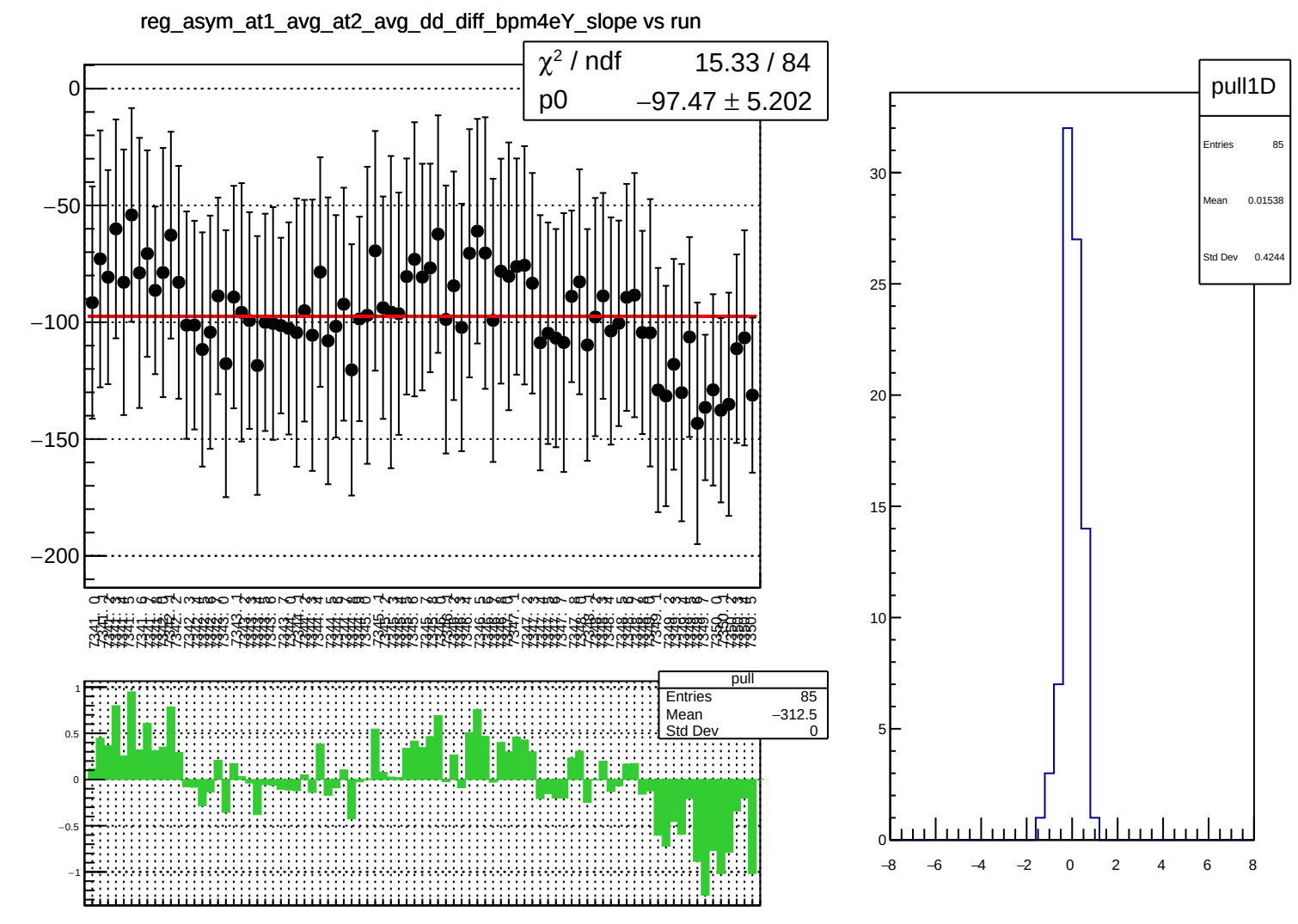

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 46.02 / 84
p0 150.8 ± 5.337
pull
Entries 85
Mean −10.96
Std Dev 0

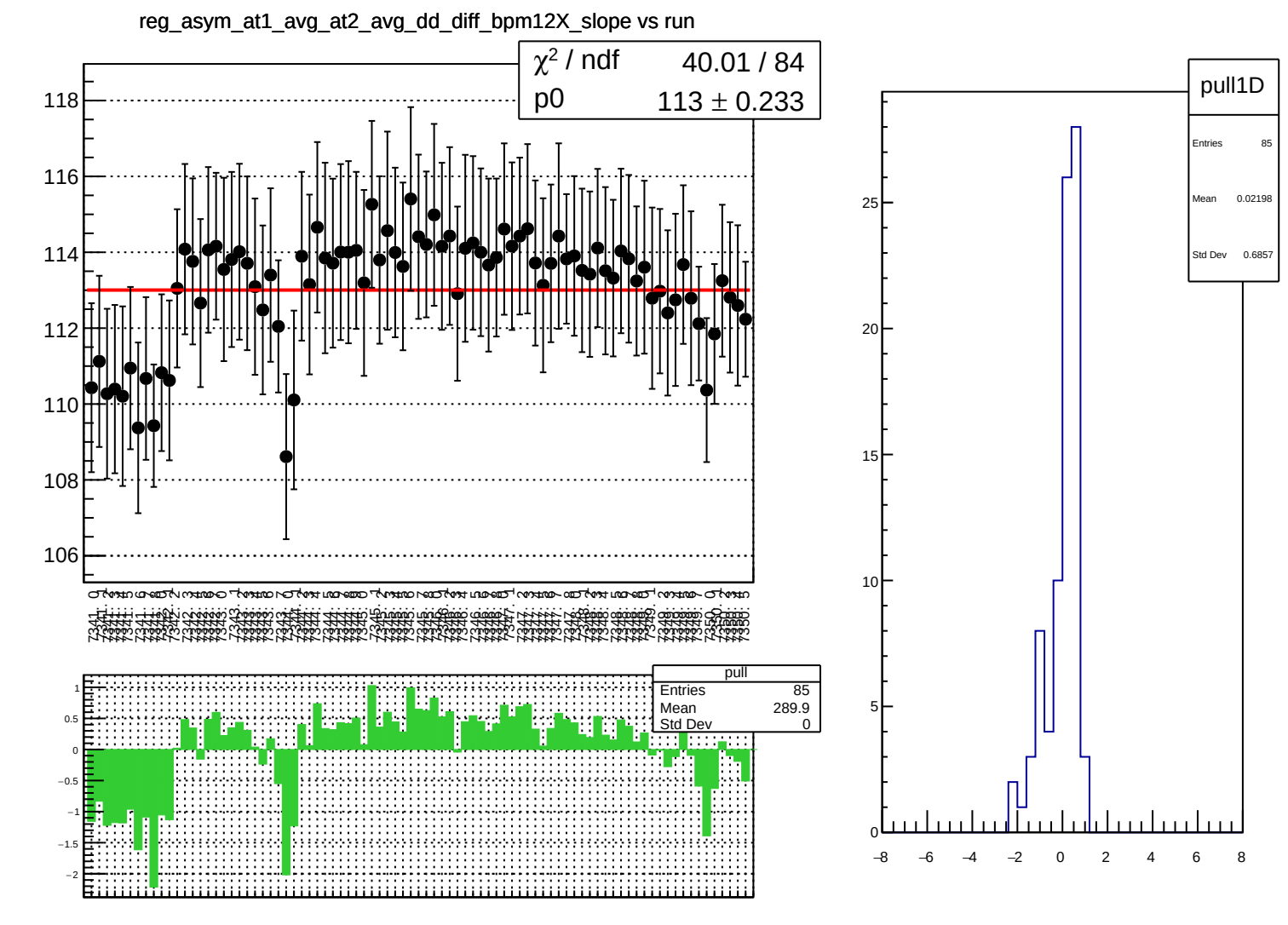

pull1D
Entries 85
Mean 0.1231
Std Dev 0.7254

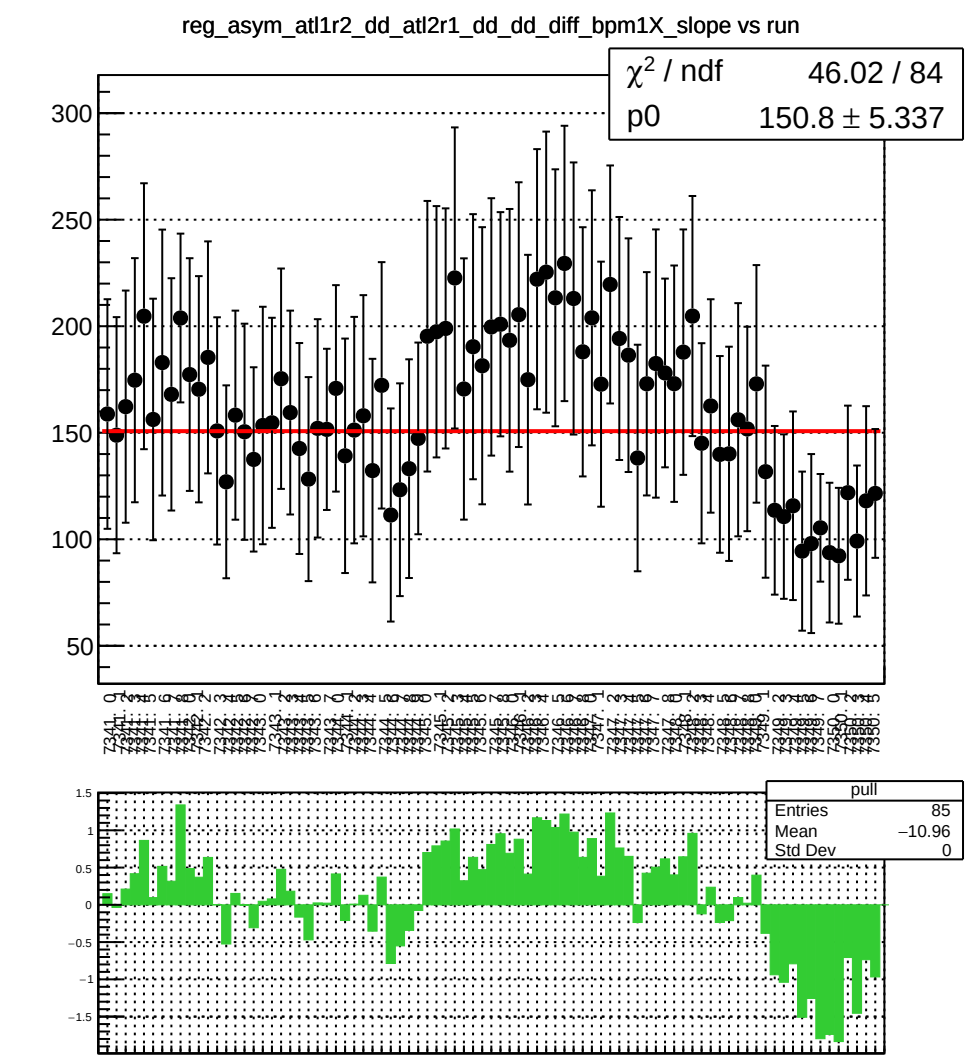

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.25 / 84
p0 28.64 ± 4.769
pull
Entries 85
Mean −613.8
Std Dev 0
pull1D
Entries 85
Mean −0.007696
Std Dev 0.4094

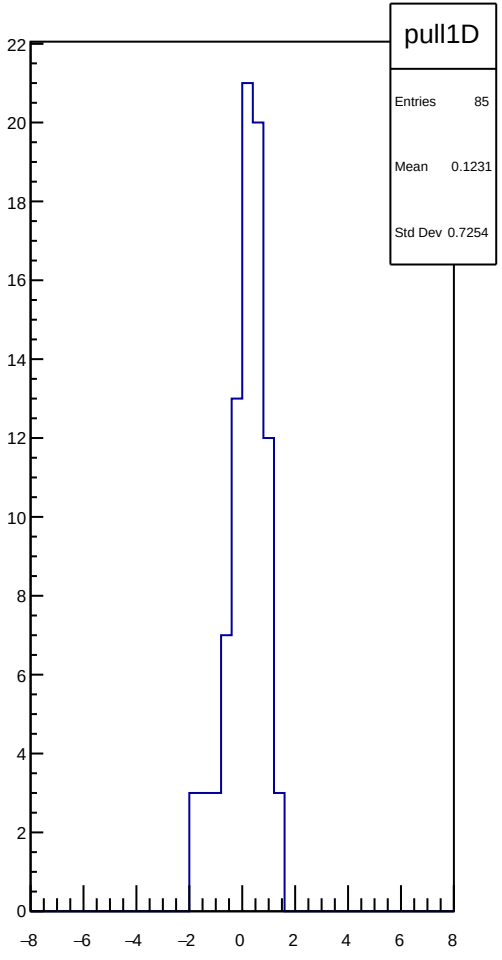

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.04 / 84
p0 −165.3 ± 5.249
pull
Entries 85
Mean −9.415
Std Dev 0

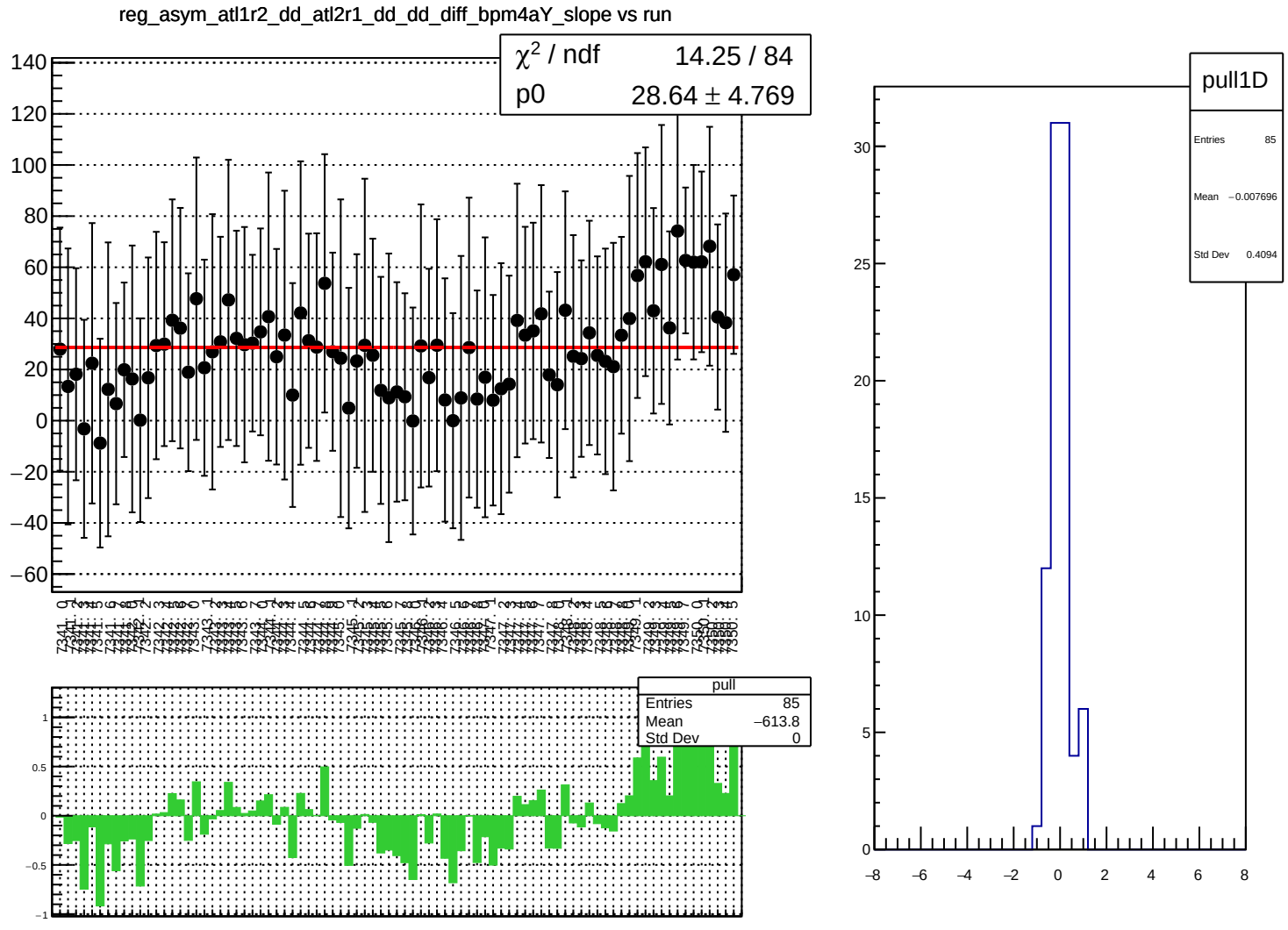

pull1D
Entries 85
Mean −0.1258
Std Dev 0.7251

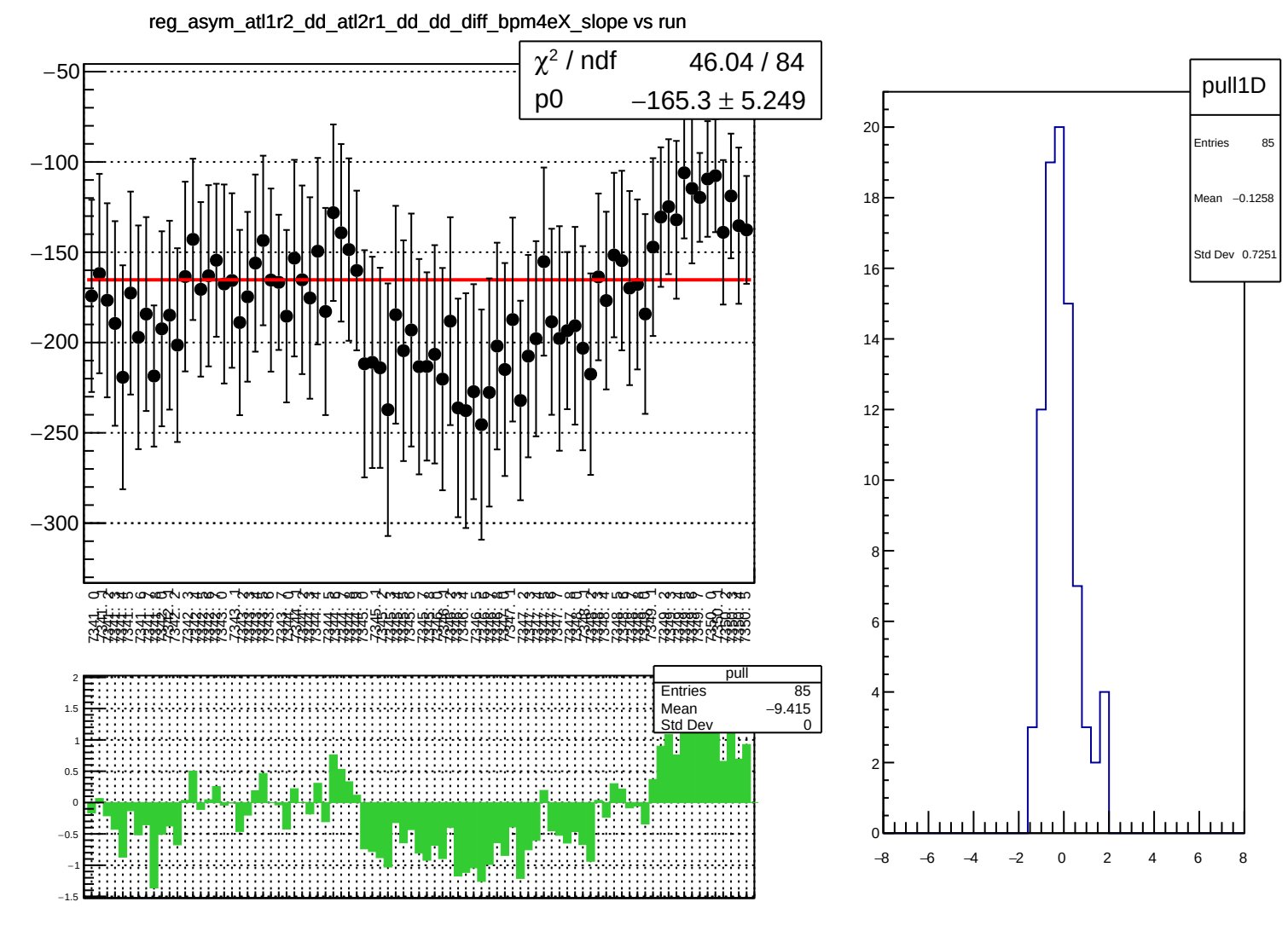

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.33 / 84
p0 −97.47 ± 5.202
pull
Entries 85
Mean −312.5
Std Dev 0
pull1D
Entries 85
Mean 0.01538
Std Dev 0.4244

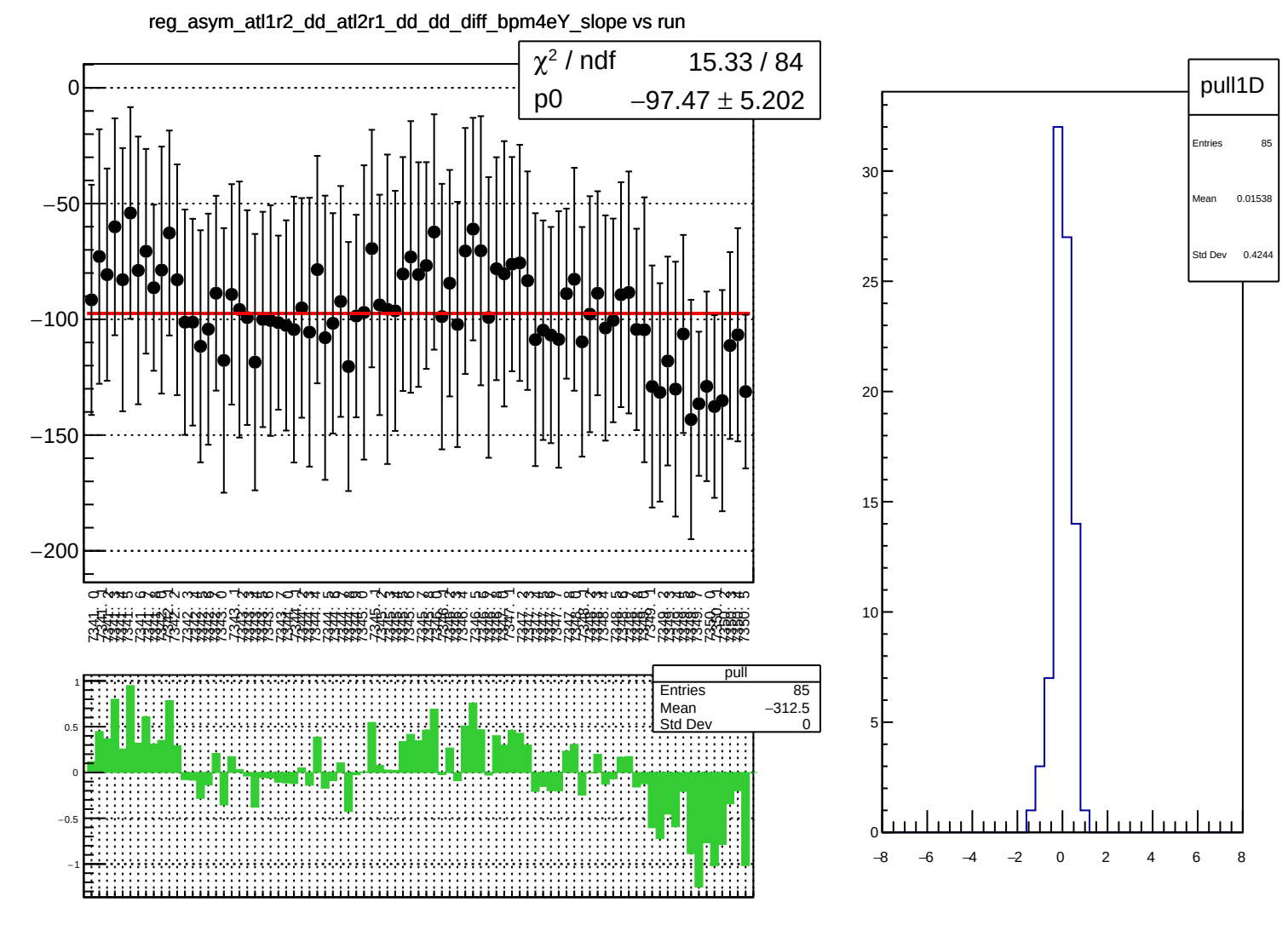

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 40.01 / 84
p0 113 ± 0.233
pull
Entries 85
Mean 289.9
Std Dev 0
pull1D
Entries 85
Mean 0.02198
Std Dev 0.6857

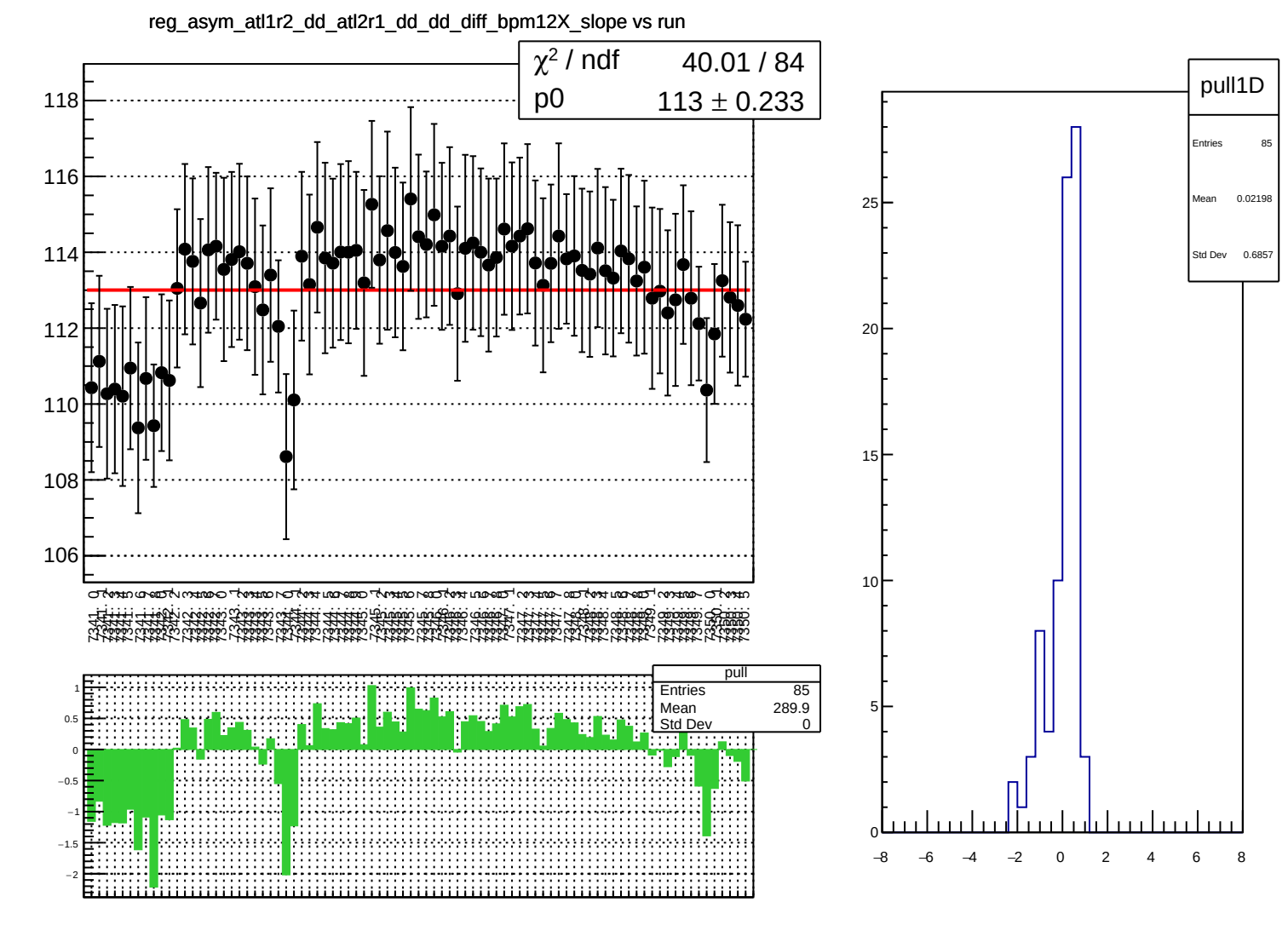

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 46.02 / 84
p0 150.8 ± 5.337
pull
Entries 85
Mean −10.96
Std Dev 0

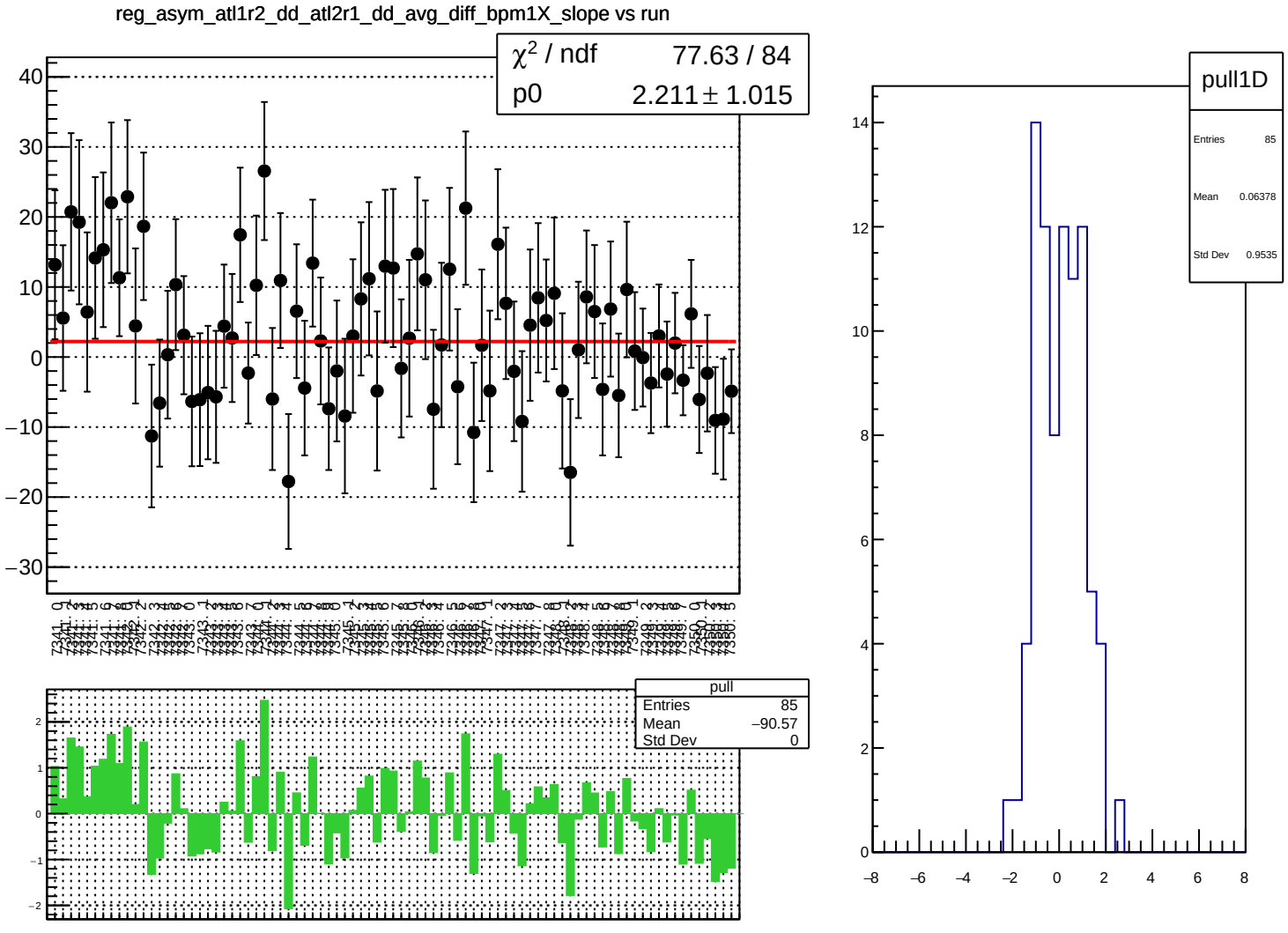

pull1D
Entries 85
Mean 0.1231
Std Dev 0.7254

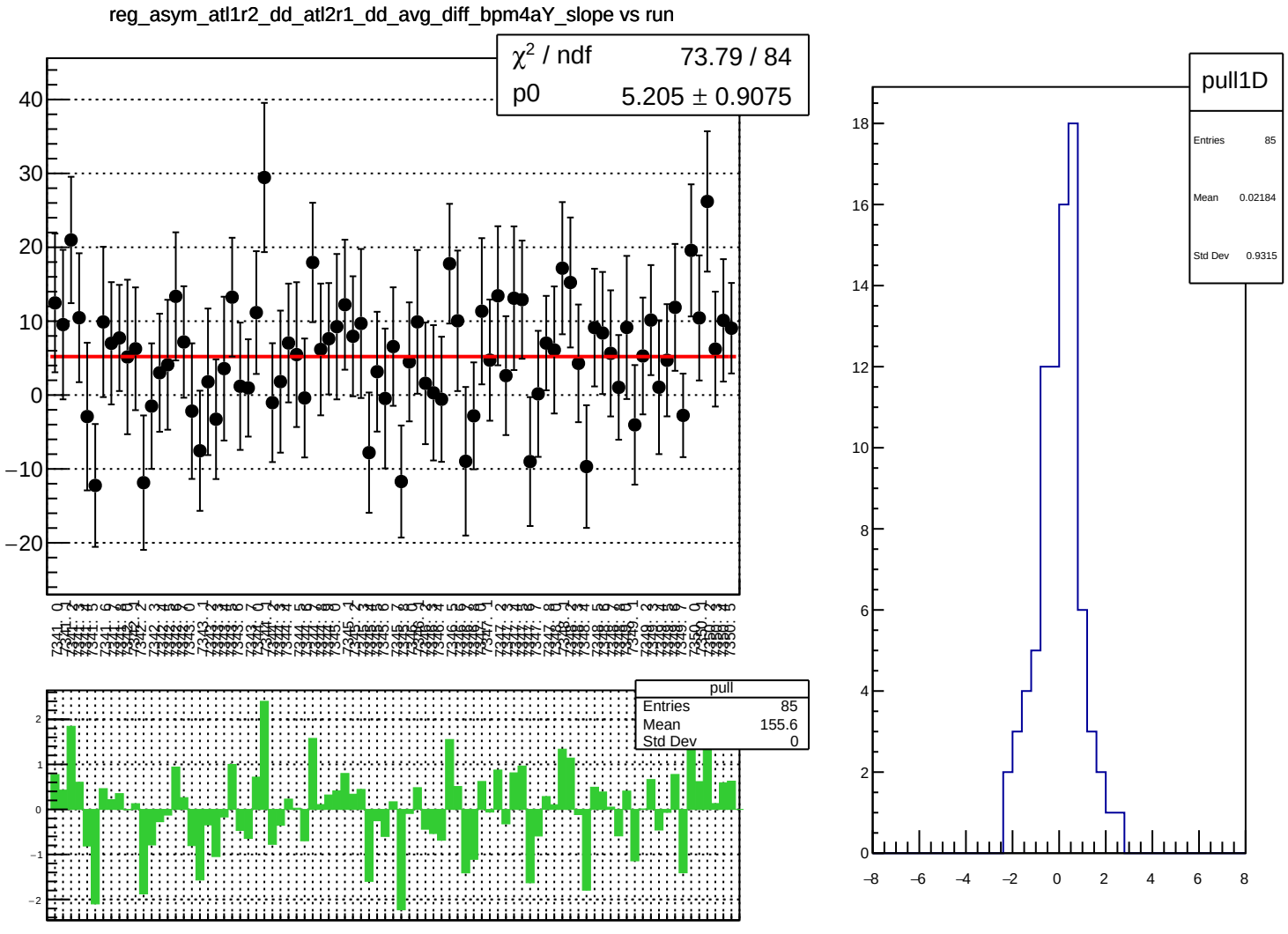

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.25 / 84
p0 28.64 ± 4.769
pull
Entries 85
Mean −613.8
Std Dev 0
pull1D
Entries 85
Mean −0.007696
Std Dev 0.4094

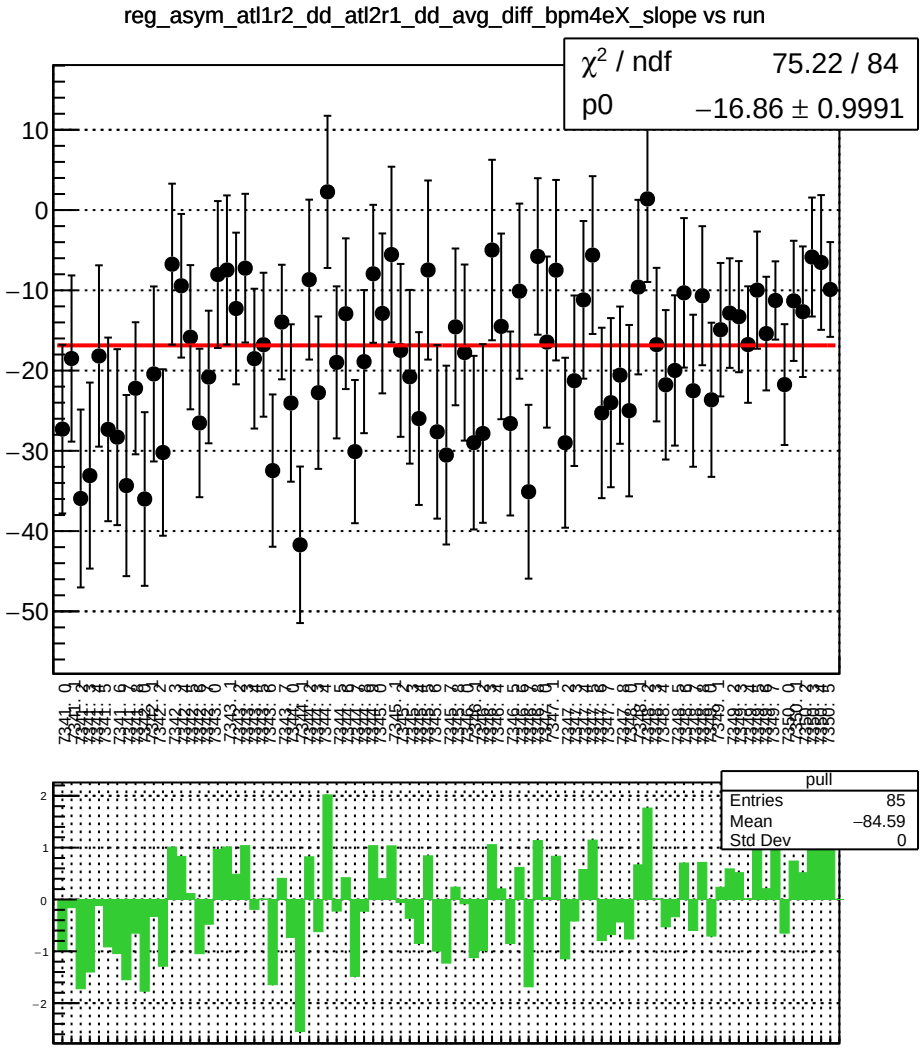

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.04 / 84
p0 −165.3 ± 5.249
pull
Entries 85
Mean −9.415
Std Dev 0
pull1D
Entries 85
Mean −0.1258
Std Dev 0.7251

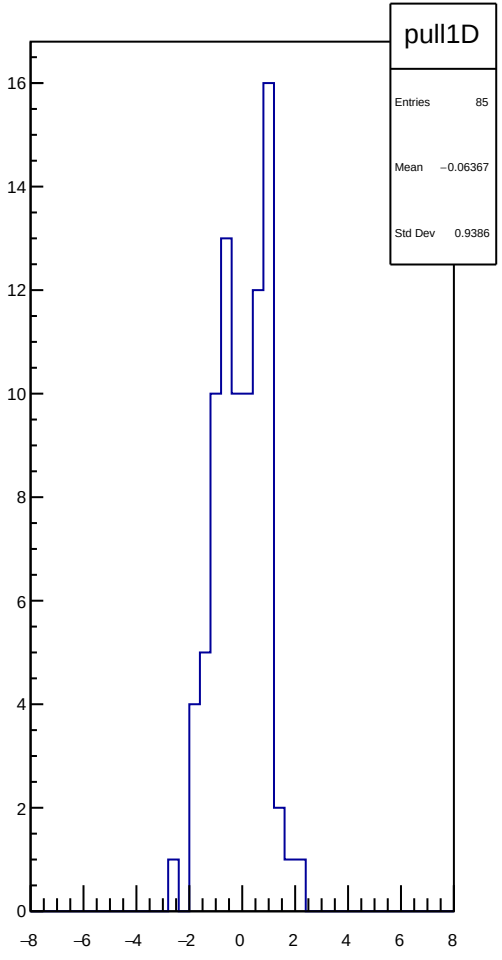

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.33 / 84
p0 −97.47 ± 5.202
pull
Entries 85
Mean −312.5
Std Dev 0
pull1D
Entries 85
Mean 0.01538
Std Dev 0.4244

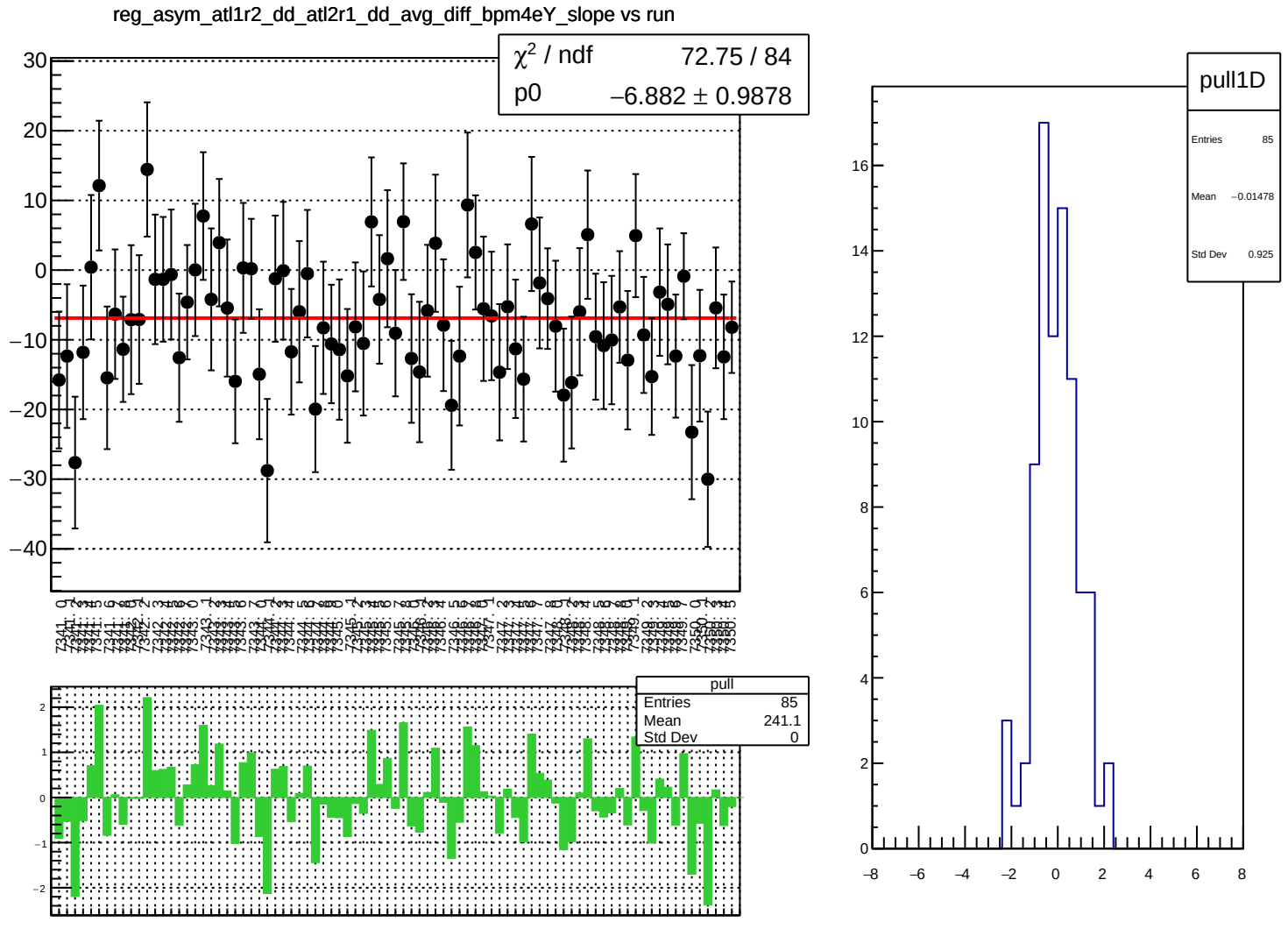

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 40.01 / 84
p0 113 ± 0.233
pull
Entries 85
Mean 289.9
Std Dev 0
pull1D
Entries 85
Mean 0.02198
Std Dev 0.6857

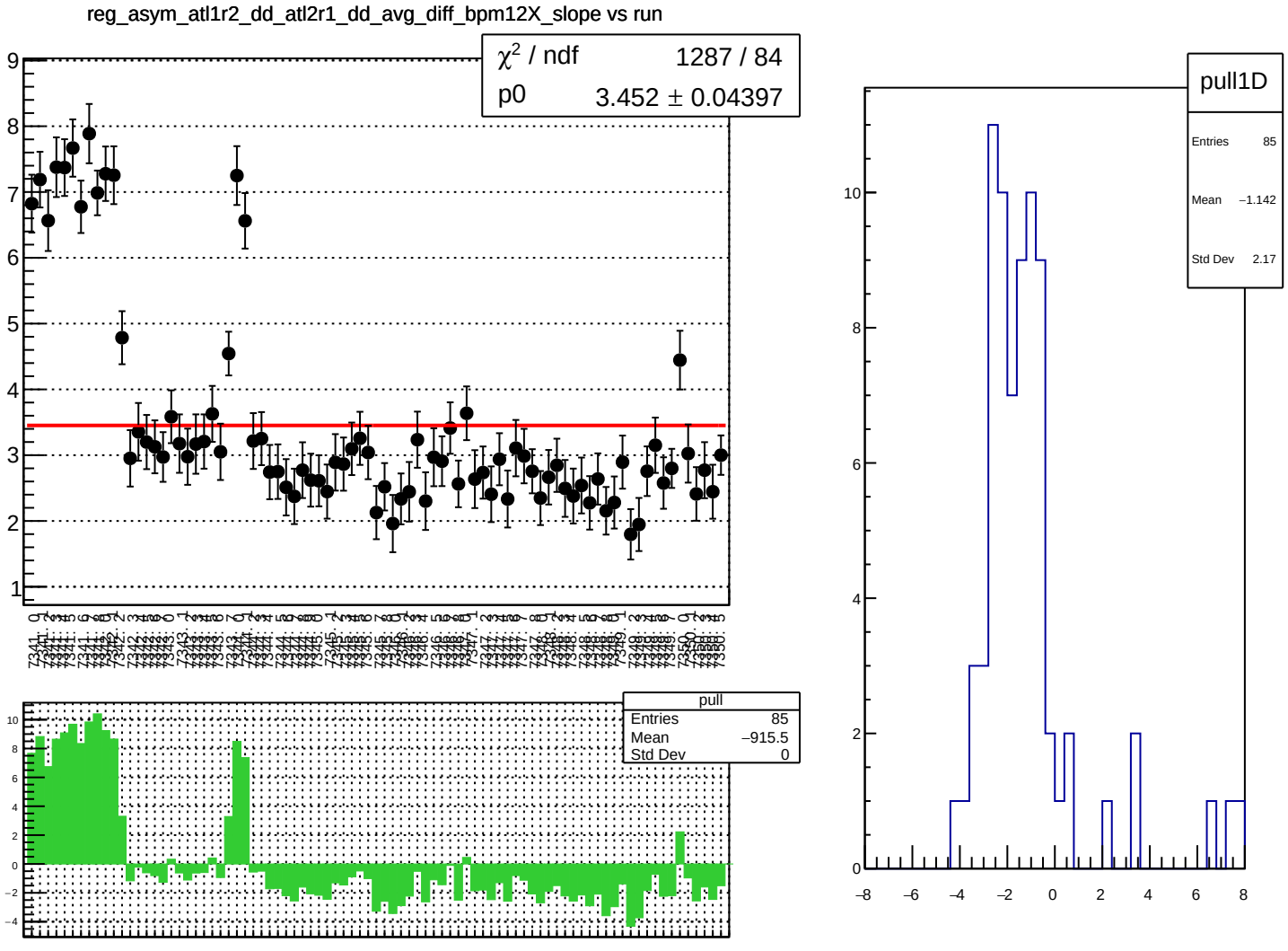

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 77.63 / 84
p0 2.211 ± 1.015
pull
Entries 85
Mean −90.57
Std Dev 0
pull1D
Entries 85
Mean 0.06378
Std Dev 0.9535

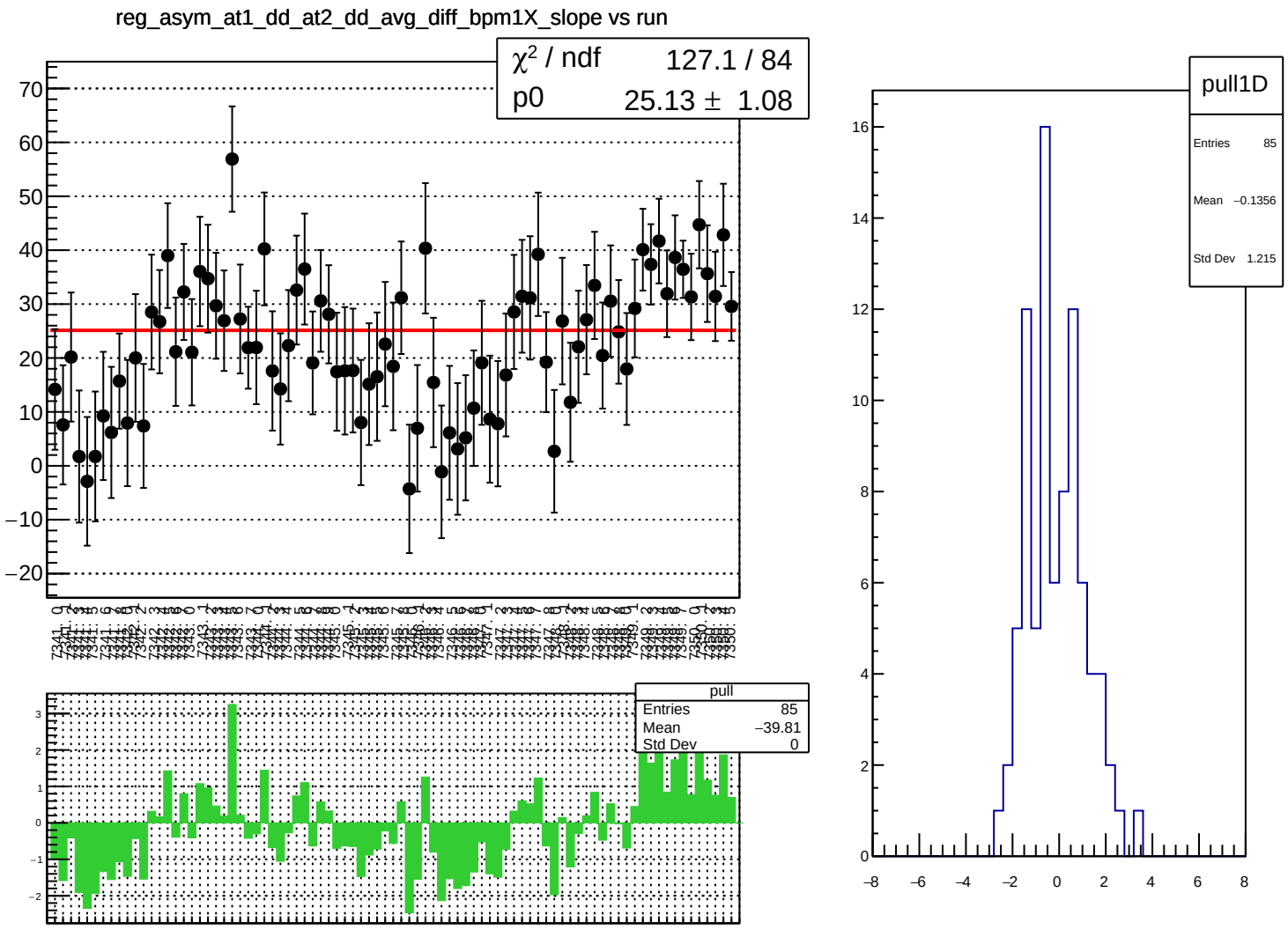

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.79 / 84
p0 5.205 ± 0.9075
pull
Entries 85
Mean 155.6
Std Dev 0
pull1D
Entries 85
Mean 0.02184
Std Dev 0.9315

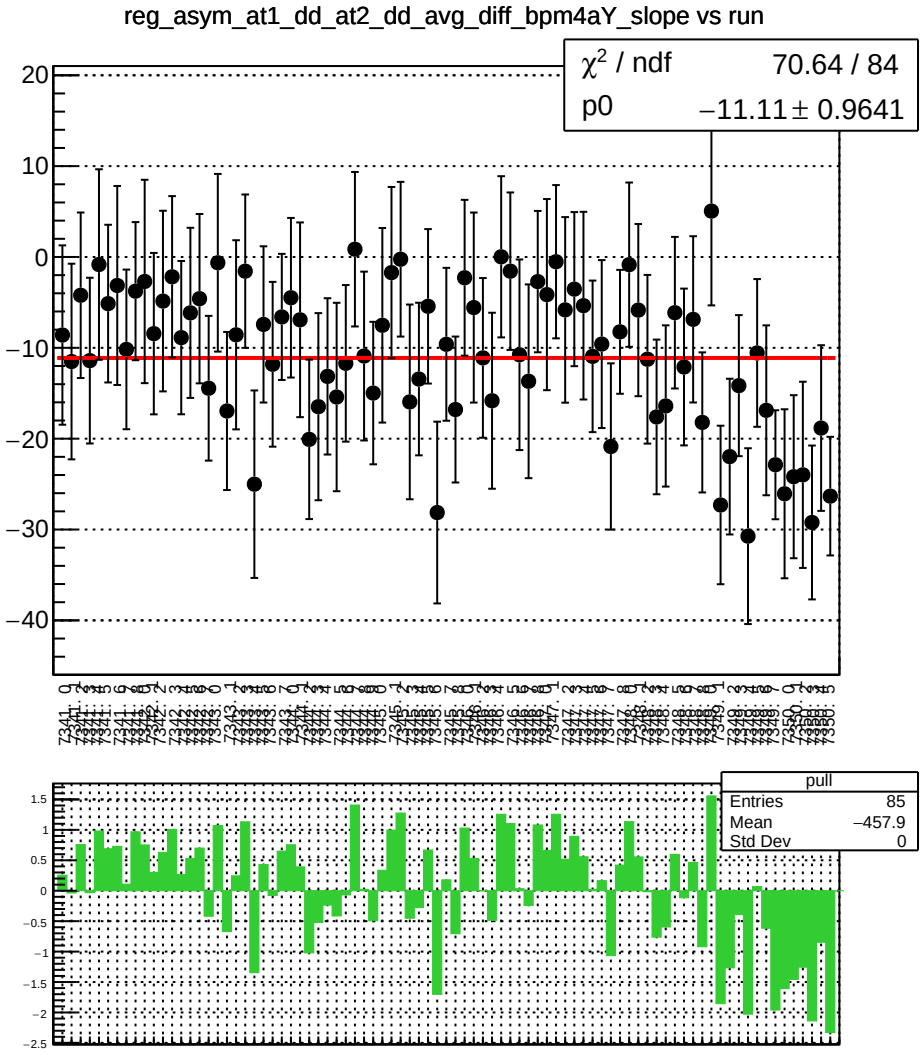

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.22 / 84
p0 −16.86 ± 0.9991
pull
Entries 85
Mean −84.59
Std Dev 0

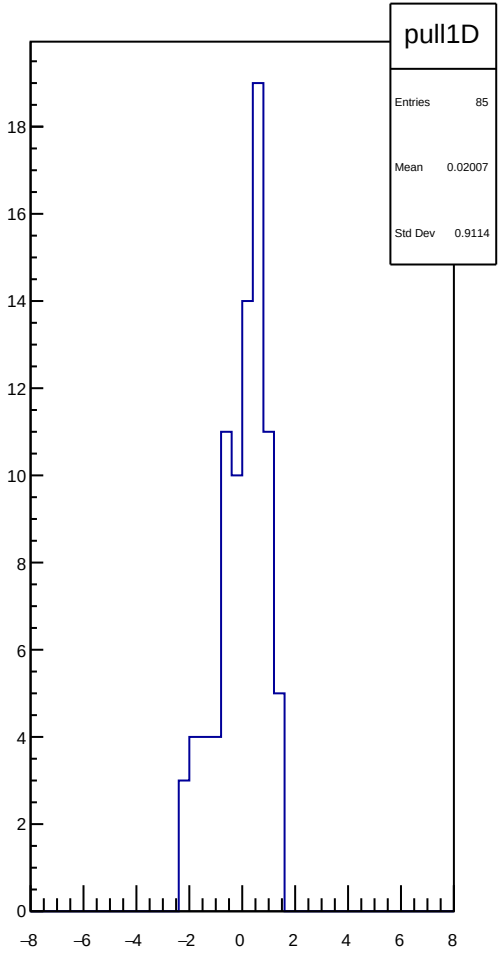

pull1D
Entries 85
Mean −0.06367
Std Dev 0.9386

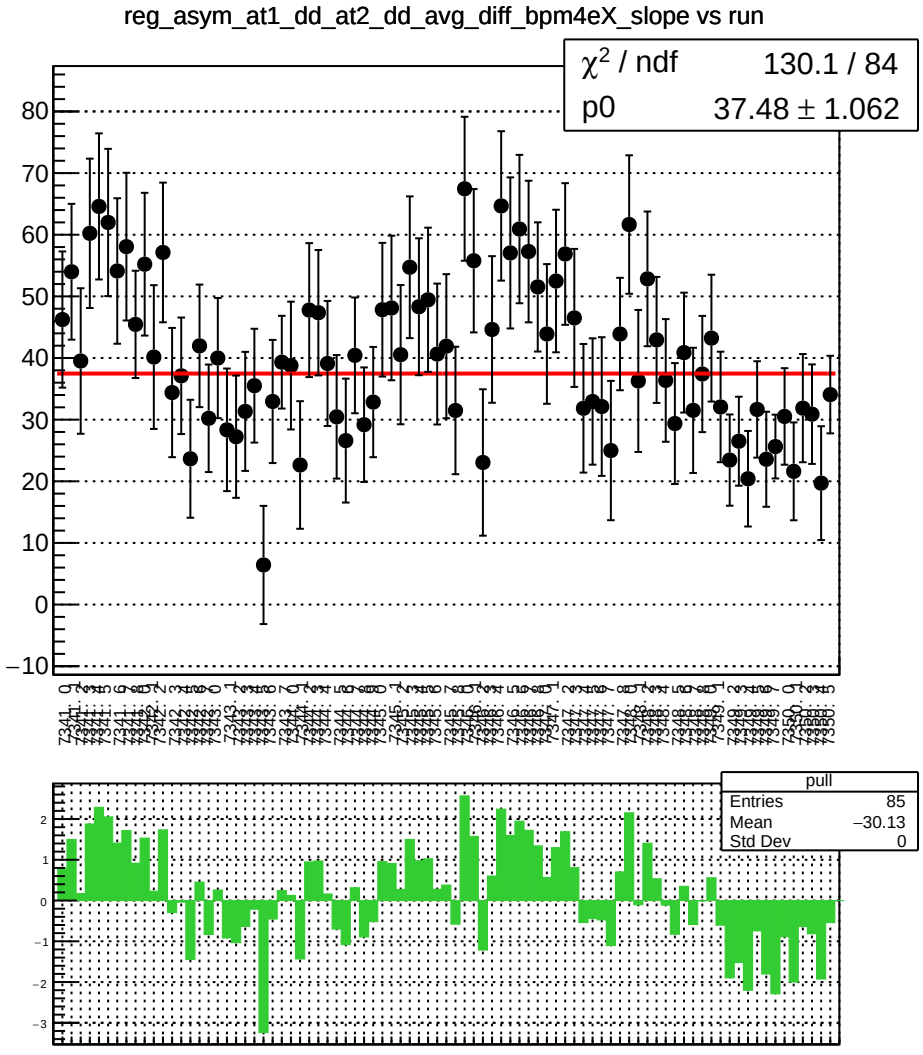

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.75 / 84
p0 −6.882 ± 0.9878
pull
Entries 85
Mean 241.1
Std Dev 0
pull1D
Entries 85
Mean −0.01478
Std Dev 0.925

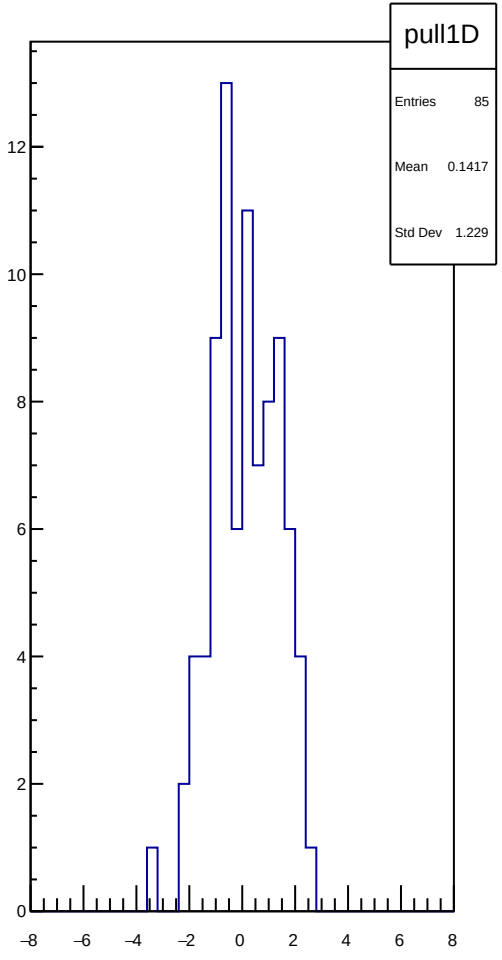

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 1287 / 84
p0 3.452 ± 0.04397
pull
Entries 85
Mean −915.5
Std Dev 0
pull1D
Entries 85
Mean −1.142
Std Dev 2.17

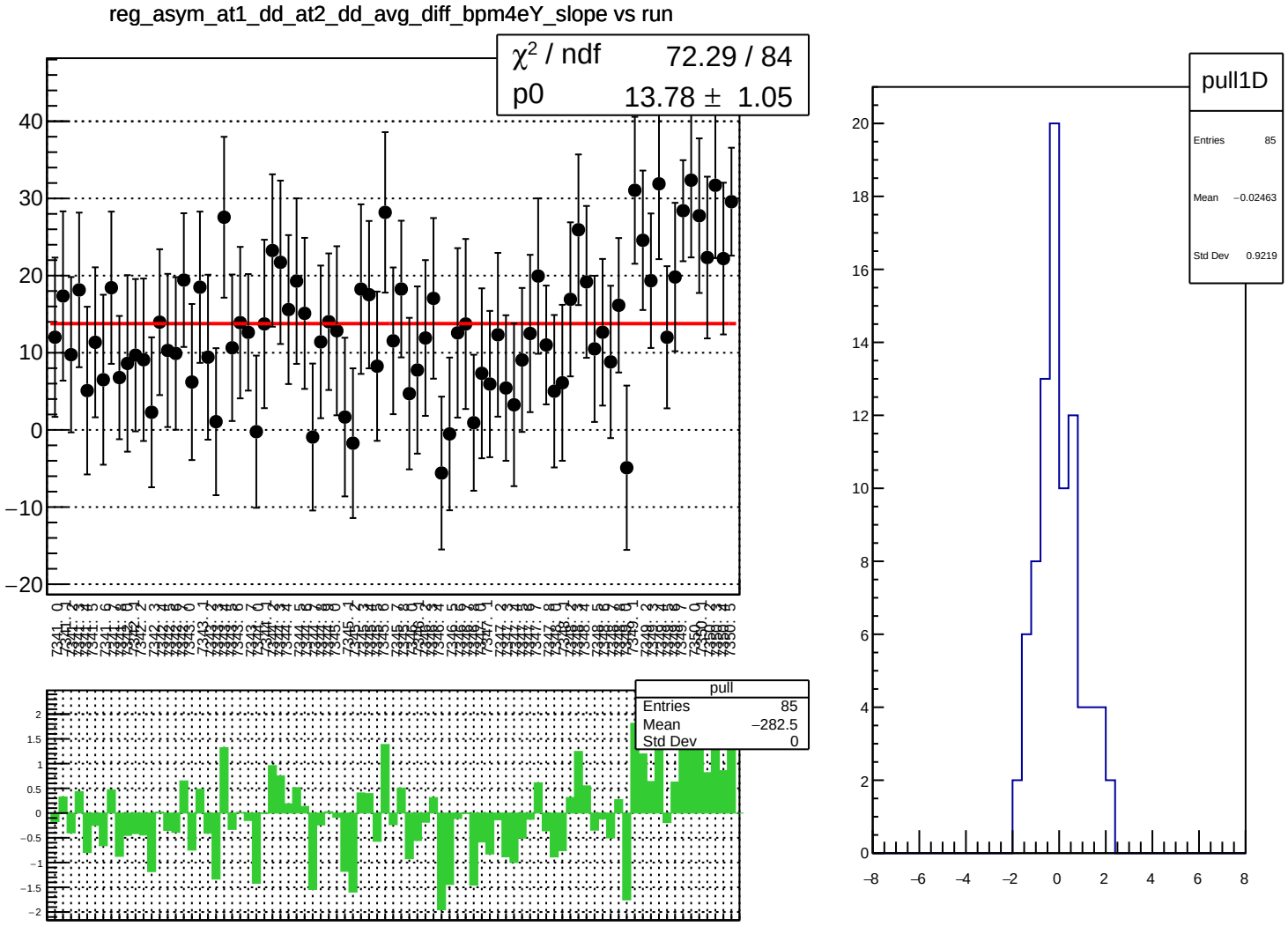

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 127.1 / 84
p0 25.13 ± 1.08
pull
Entries 85
Mean −39.81
Std Dev 0
pull1D
Entries 85
Mean −0.1356
Std Dev 1.215

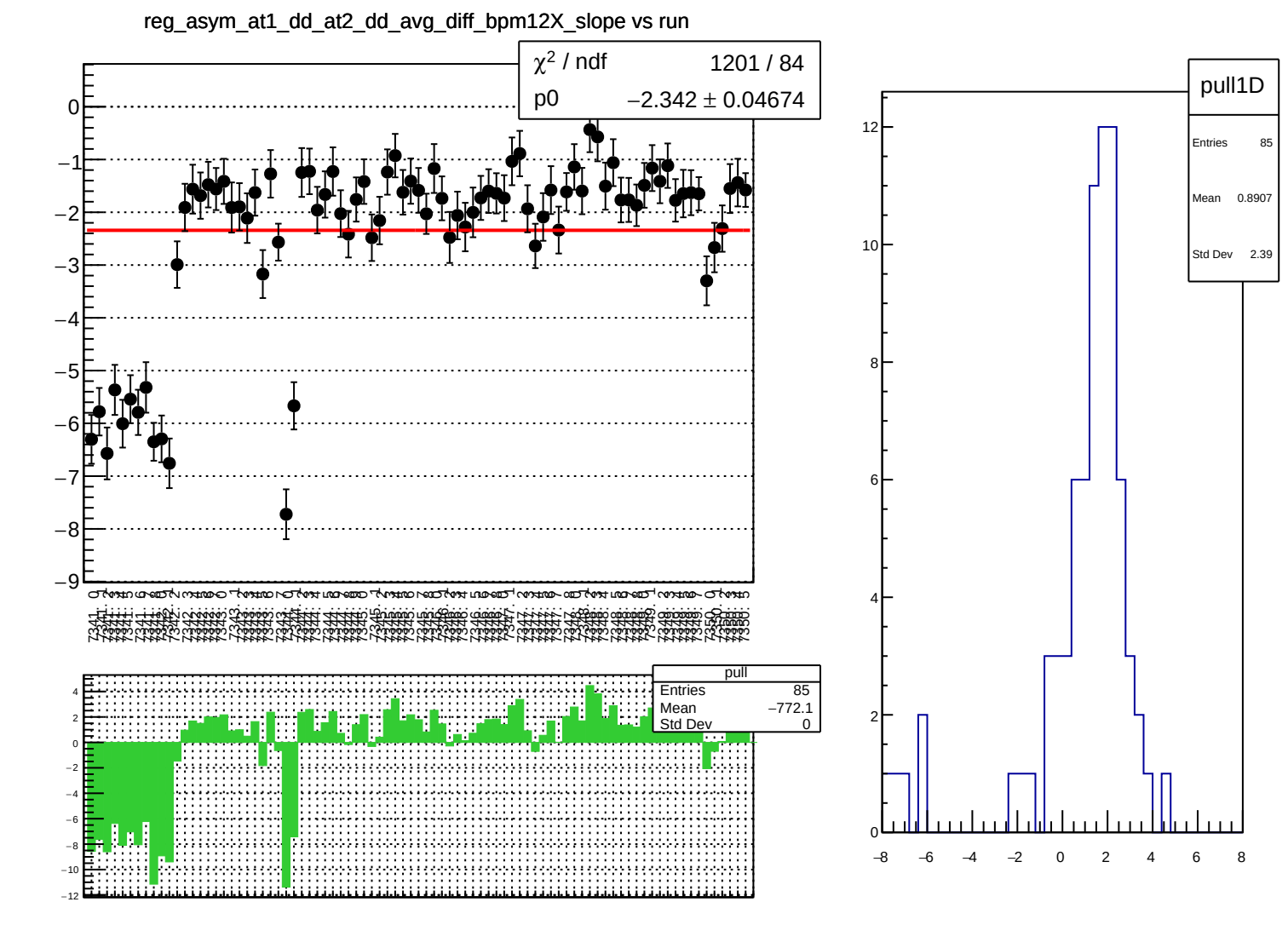

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 70.64 / 84
p0 −11.11 ± 0.9641
pull
Entries 85
Mean −457.9
Std Dev 0

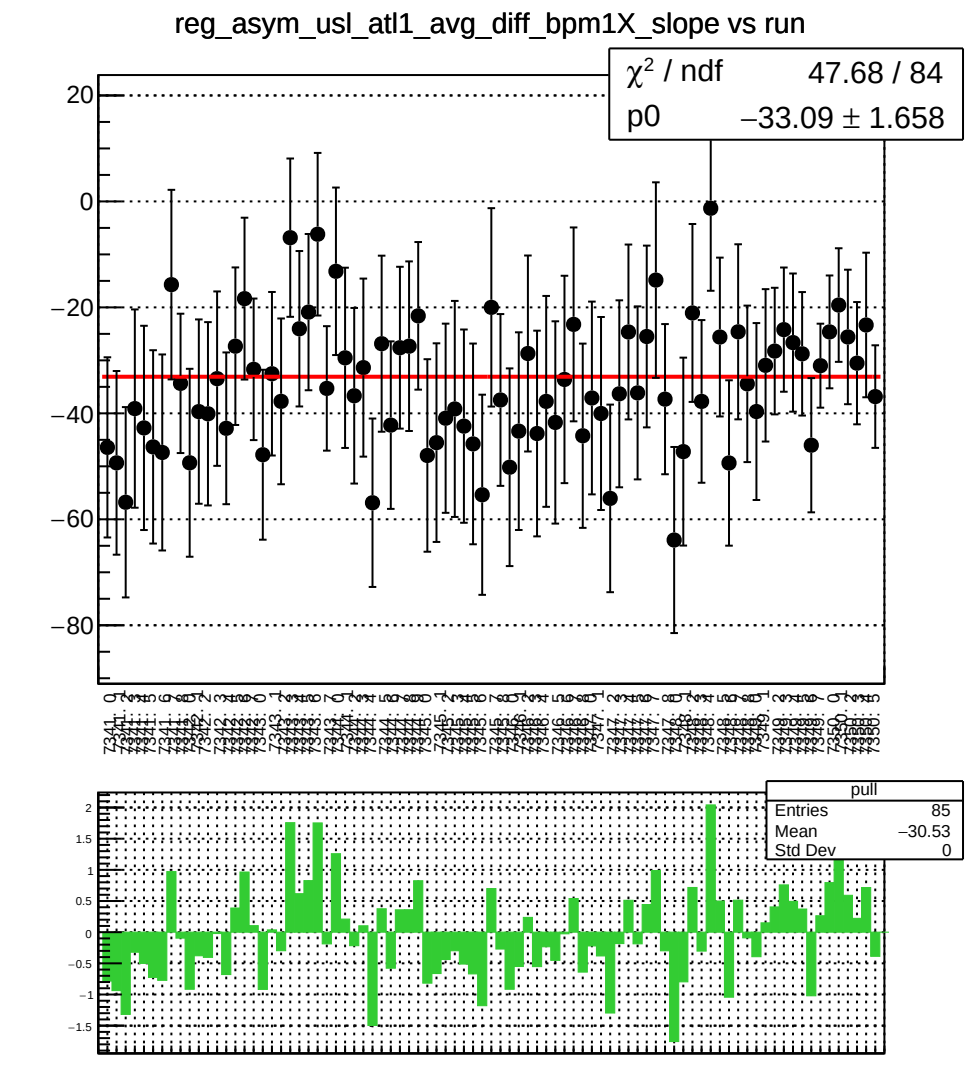

pull1D
Entries 85
Mean 0.02007
Std Dev 0.9114

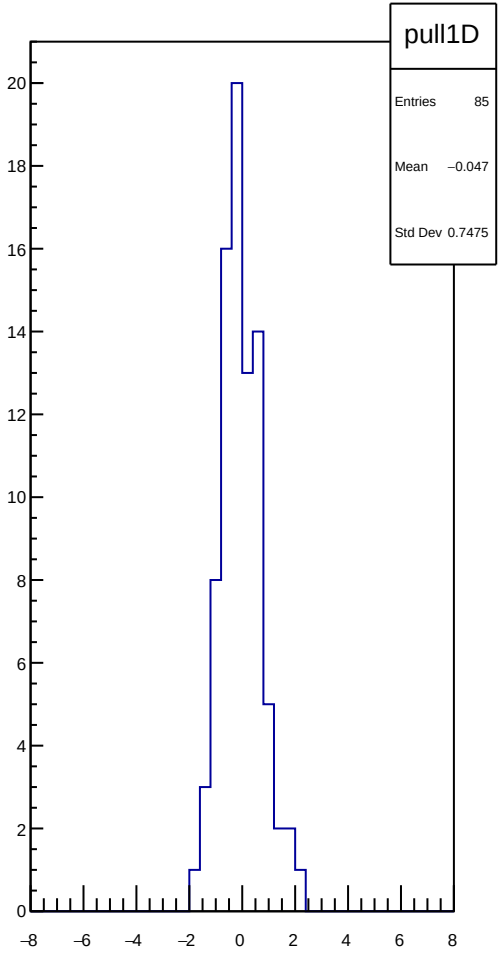

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 130.1 / 84
p0 37.48 ± 1.062
pull
Entries 85
Mean −30.13
Std Dev 0

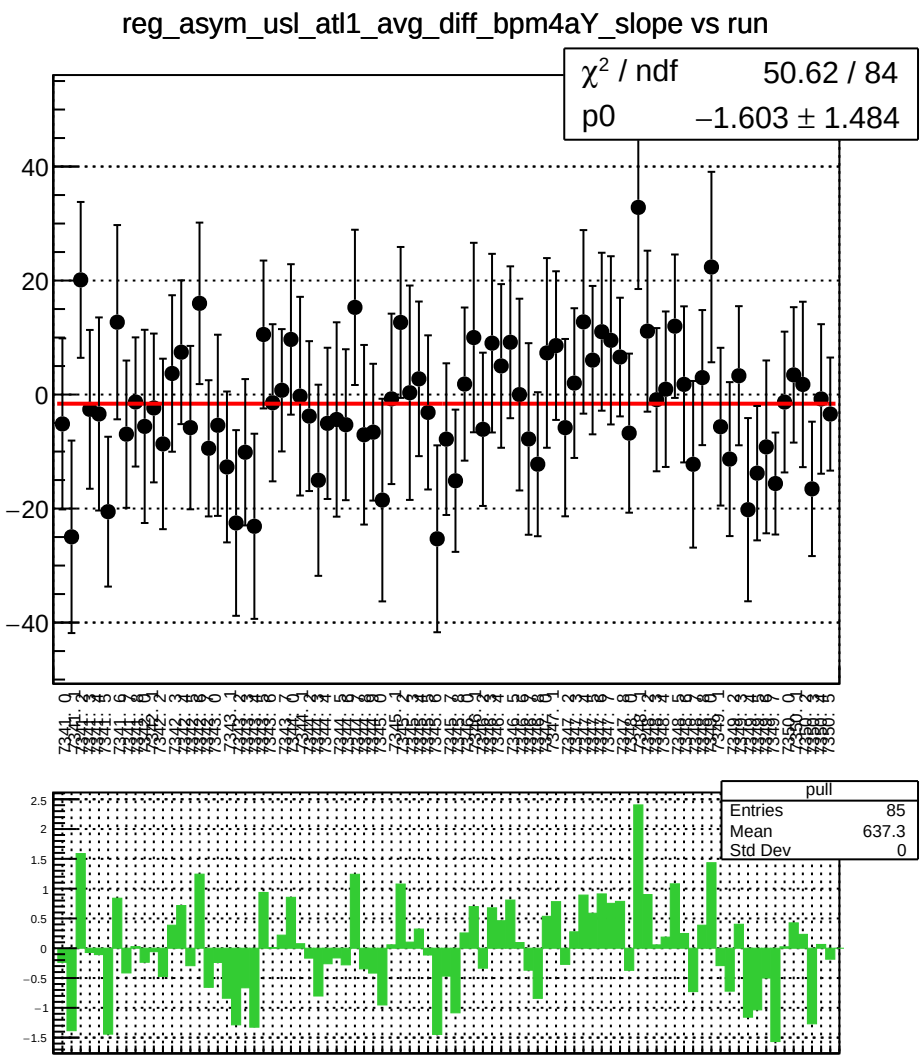

pull1D
Entries 85
Mean 0.1417
Std Dev 1.229

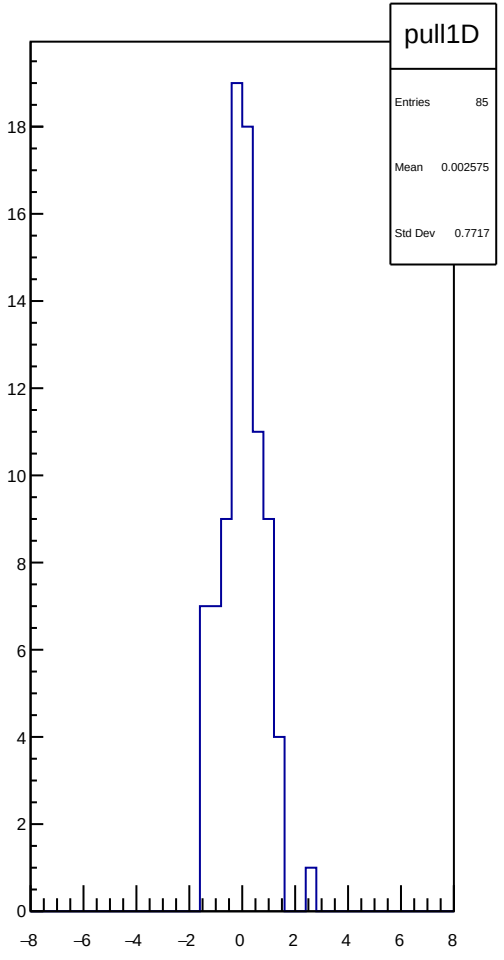

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.29 / 84
p0 13.78 ± 1.05
pull
Entries 85
Mean −282.5
Std Dev 0
pull1D
Entries 85
Mean −0.02463
Std Dev 0.9219

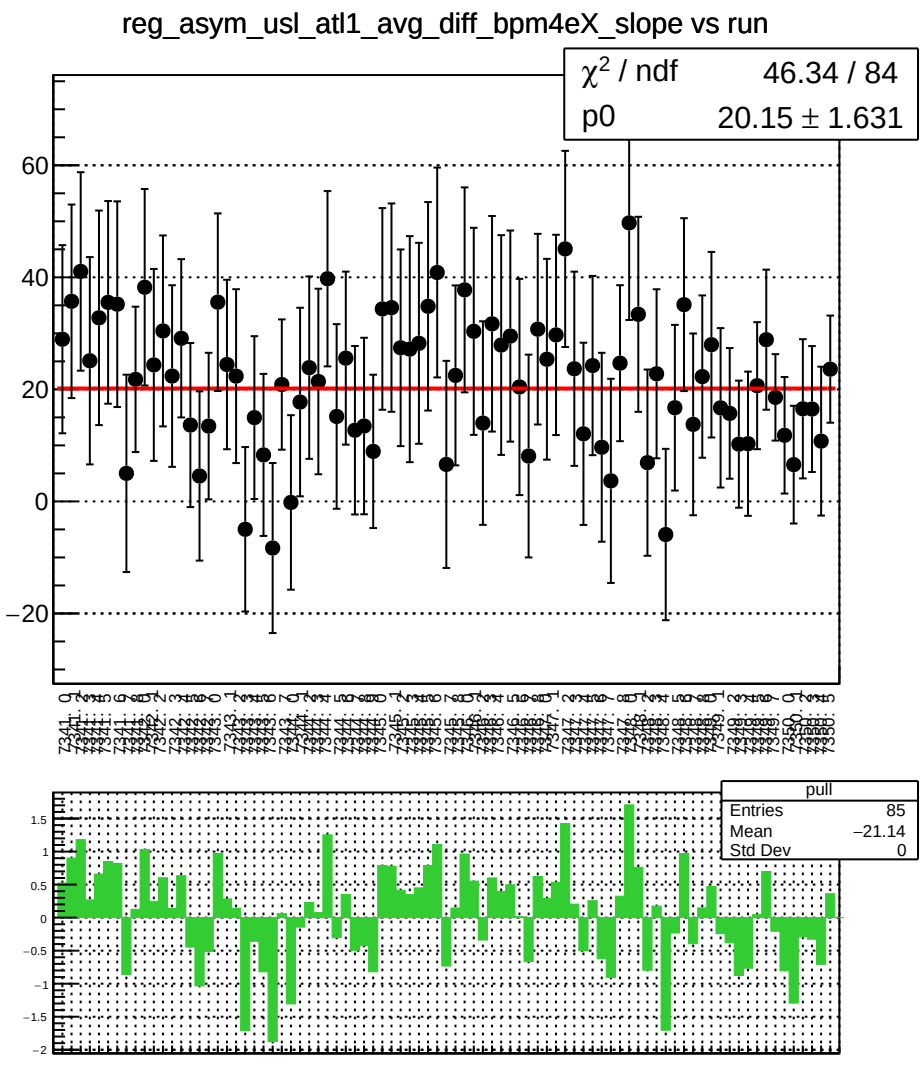

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 1201 / 84
p0 −2.342 ± 0.04674
pull
Entries 85
Mean −772.1
Std Dev 0
pull1D
Entries 85
Mean 0.8907
Std Dev 2.39

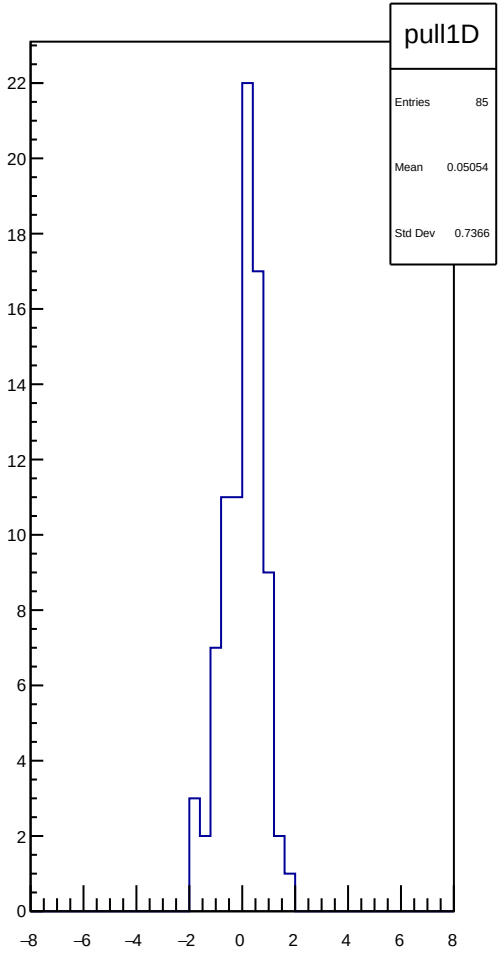

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 47.68 / 84
p0 −33.09 ± 1.658
pull
Entries 85
Mean −30.53
Std Dev 0

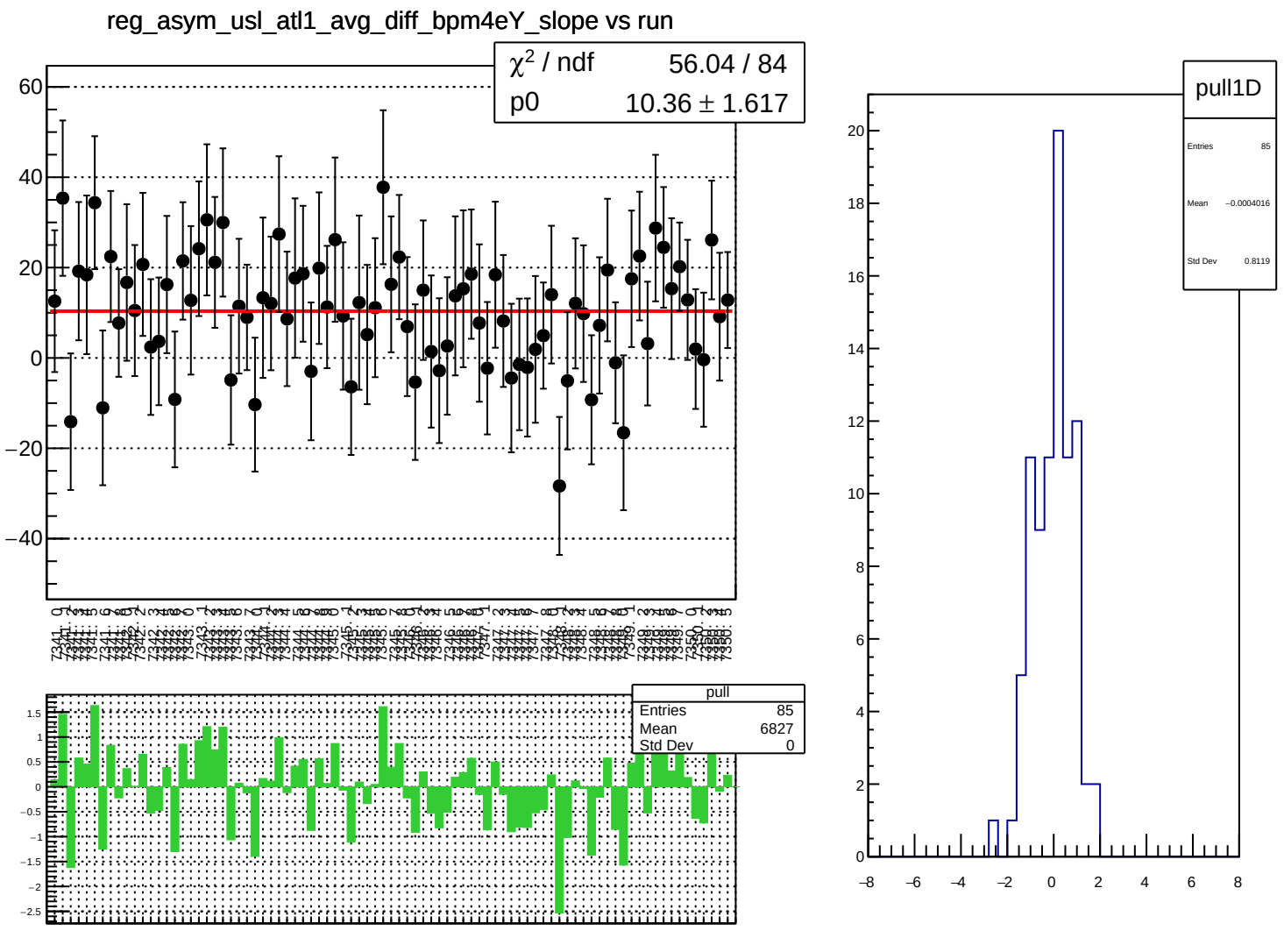

pull1D
Entries 85
Mean −0.047
Std Dev 0.7475

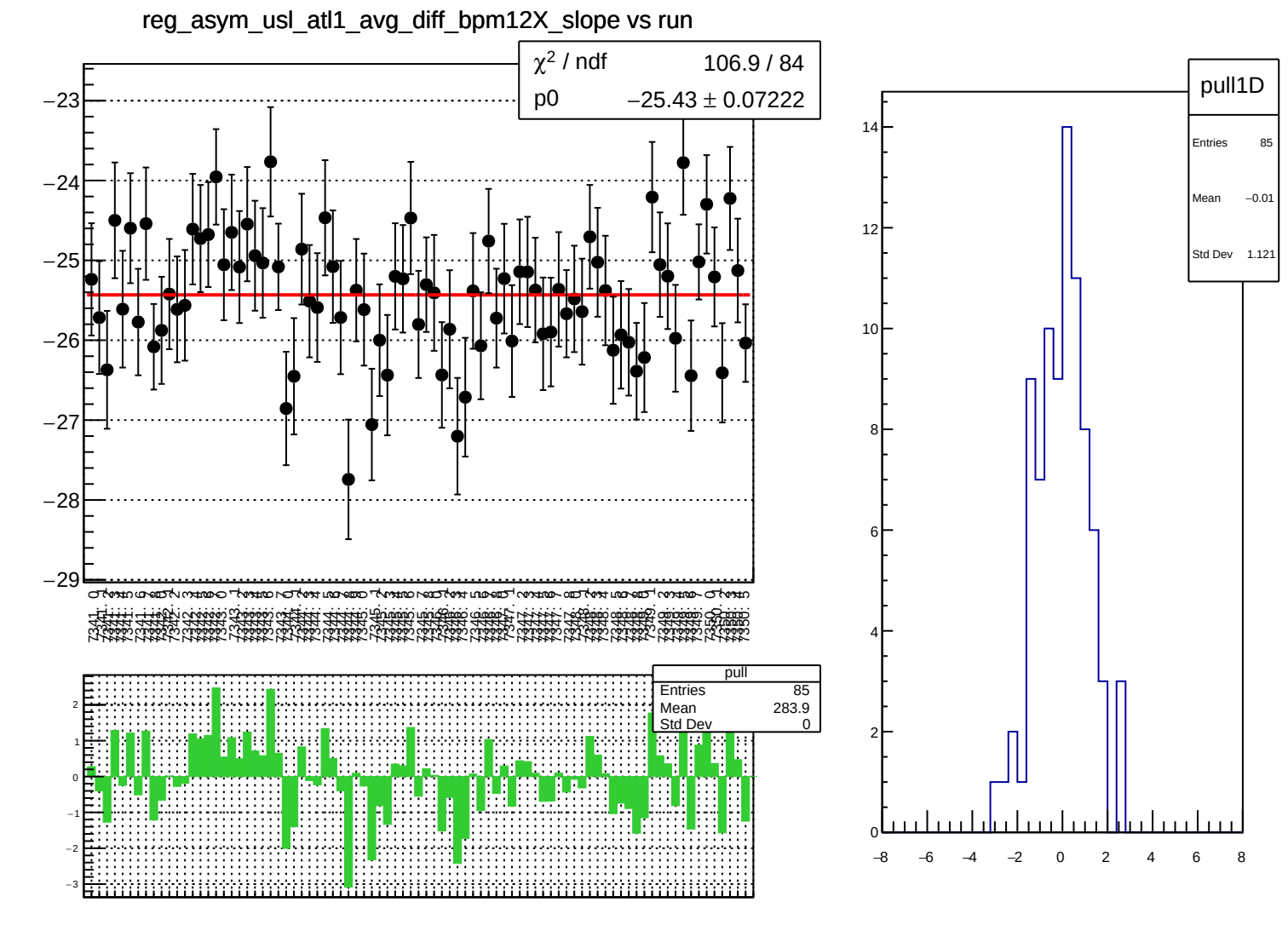

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 50.62 / 84
p0 −1.603 ± 1.484
pull
Entries 85
Mean 637.3
Std Dev 0

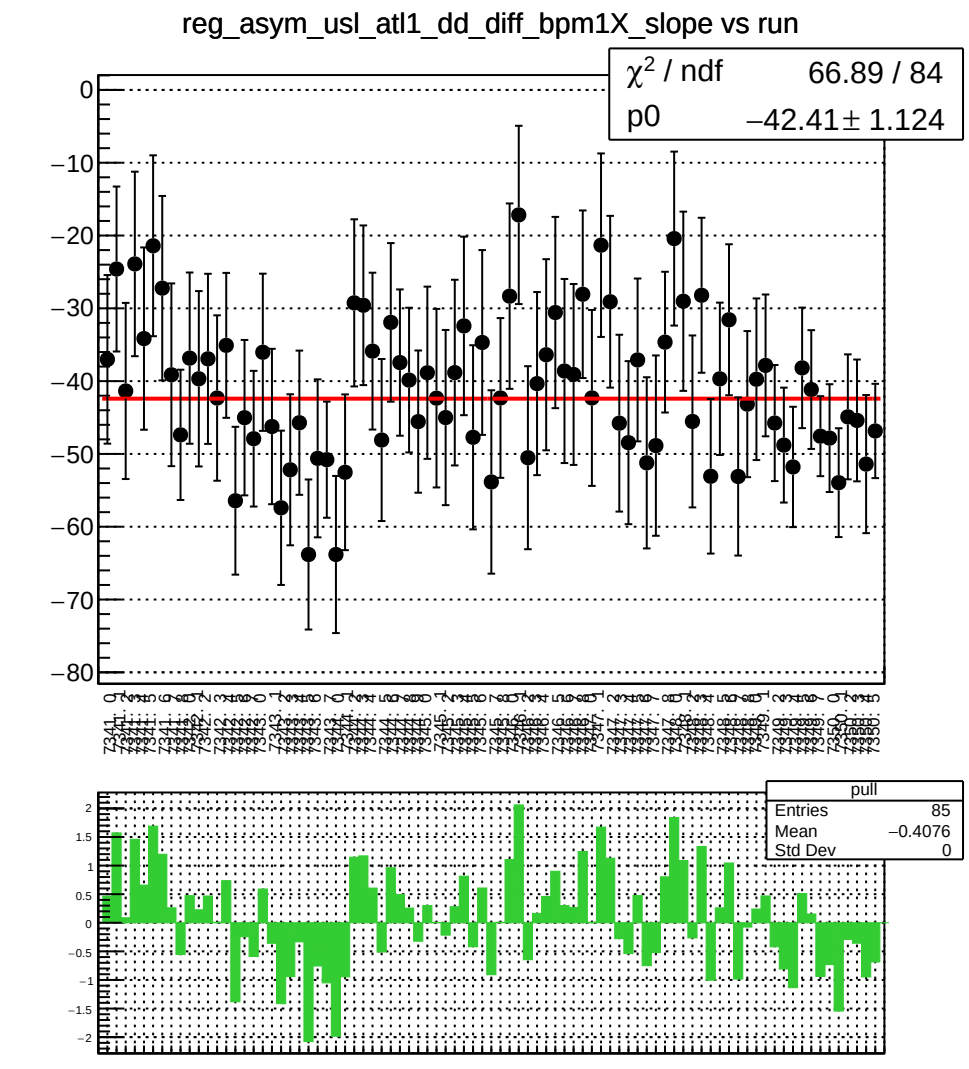

pull1D
Entries 85
Mean 0.002575
Std Dev 0.7717

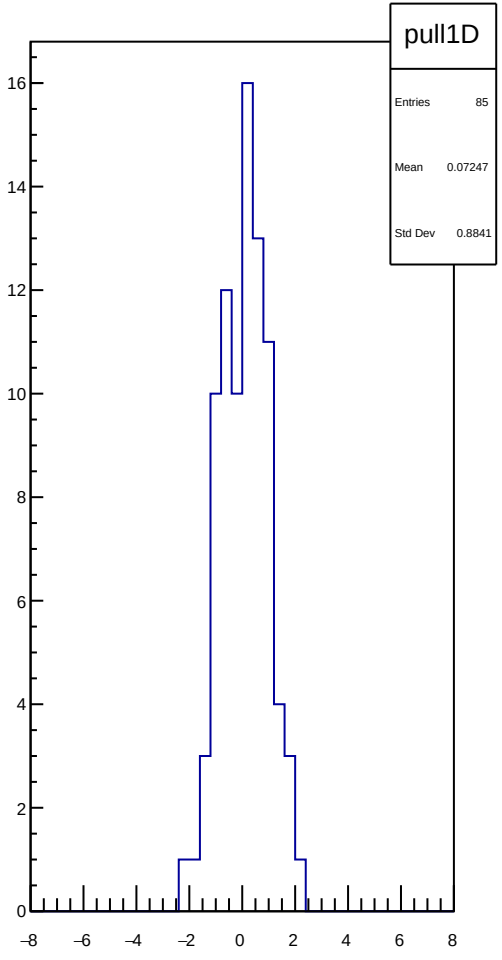

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.34 / 84
p0 20.15 ± 1.631
pull
Entries 85
Mean −21.14
Std Dev 0

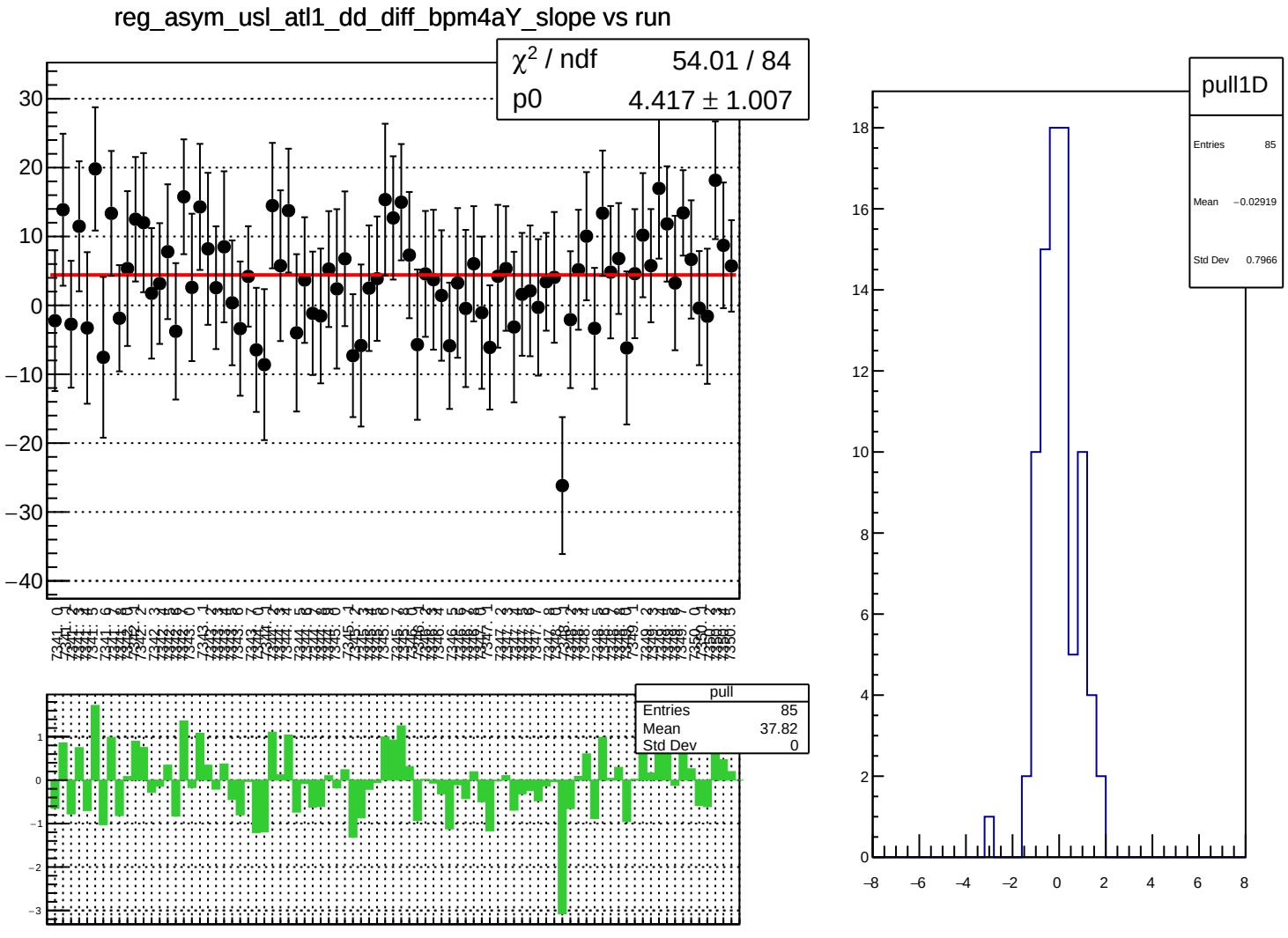

pull1D
Entries 85
Mean 0.05054
Std Dev 0.7366

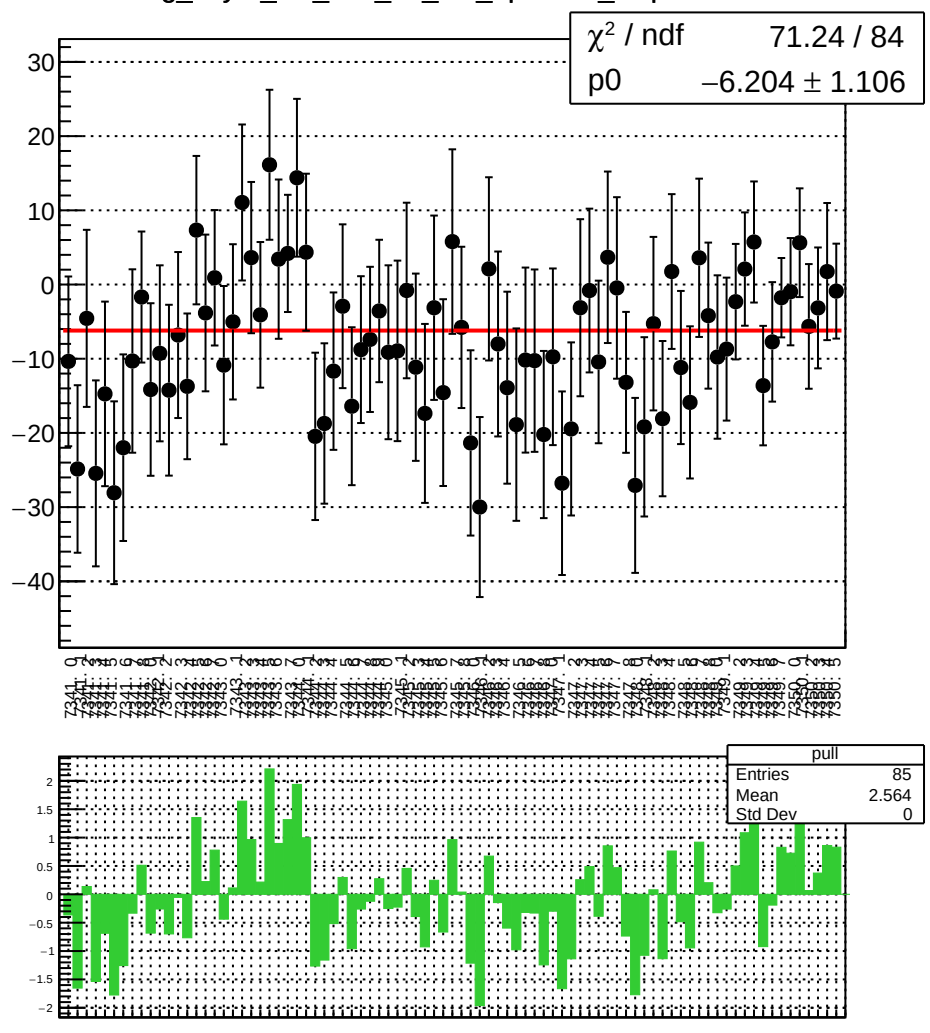

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.04 / 84
p0 10.36 ± 1.617
pull
Entries 85
Mean 6827
Std Dev 0
pull1D
Entries 85
Mean −0.0004016
Std Dev 0.8119

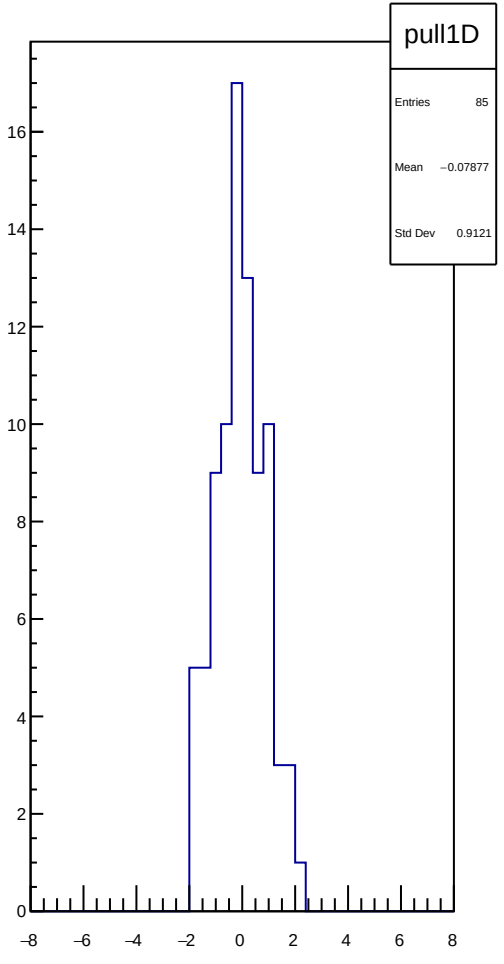

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 106.9 / 84
p0 −25.43 ± 0.07222
pull
Entries 85
Mean 283.9
Std Dev 0
pull1D
Entries 85
Mean −0.01
Std Dev 1.121

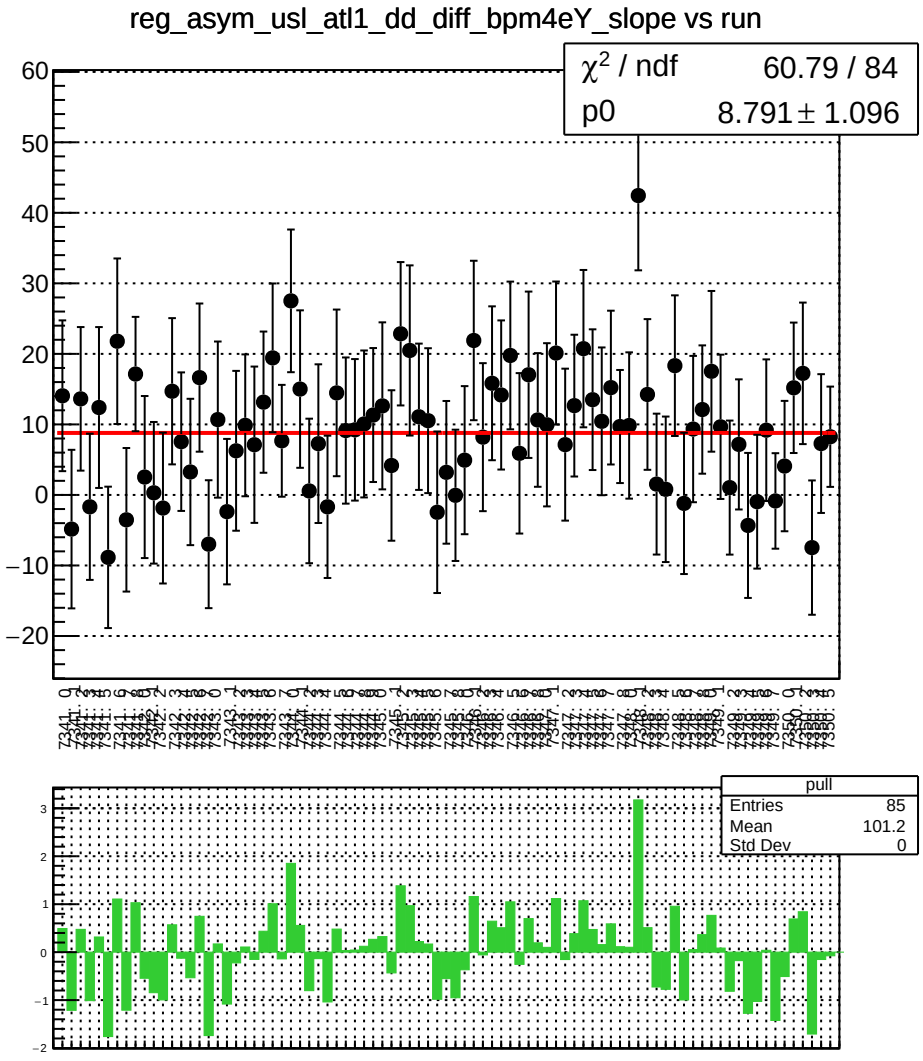

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 66.89 / 84
p0 −42.41 ± 1.124
pull
Entries 85
Mean −0.4076
Std Dev 0

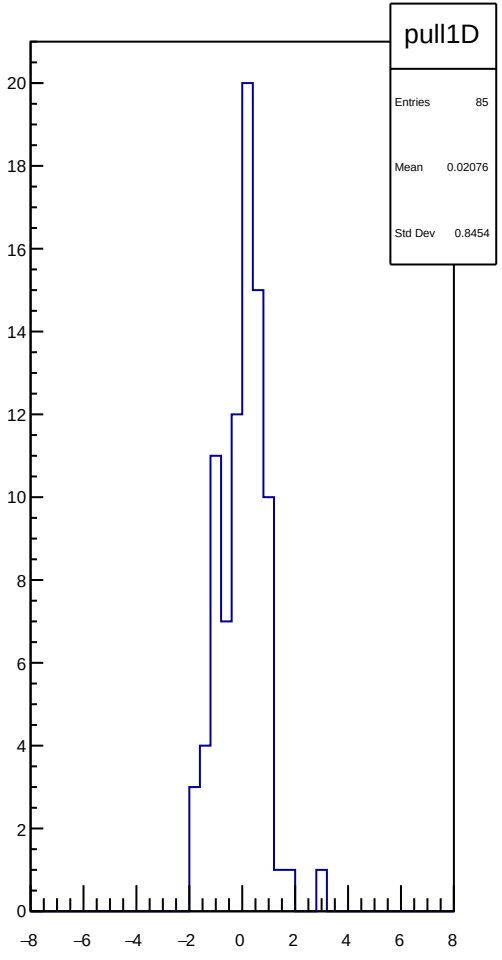

pull1D
Entries 85
Mean 0.07247
Std Dev 0.8841

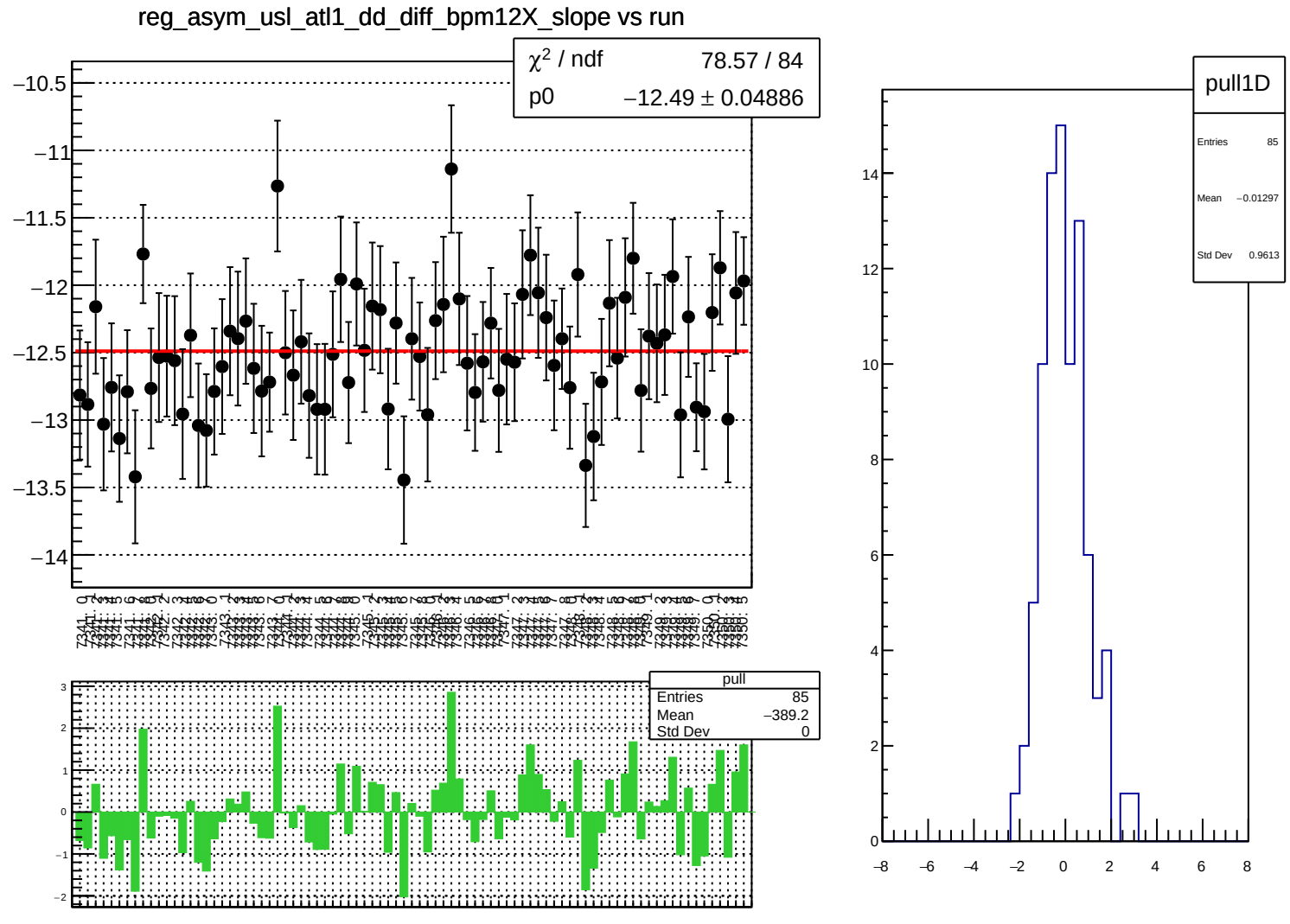

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.01 / 84
p0 4.417 ± 1.007
pull
Entries 85
Mean 37.82
Std Dev 0
pull1D
Entries 85
Mean −0.02919
Std Dev 0.7966

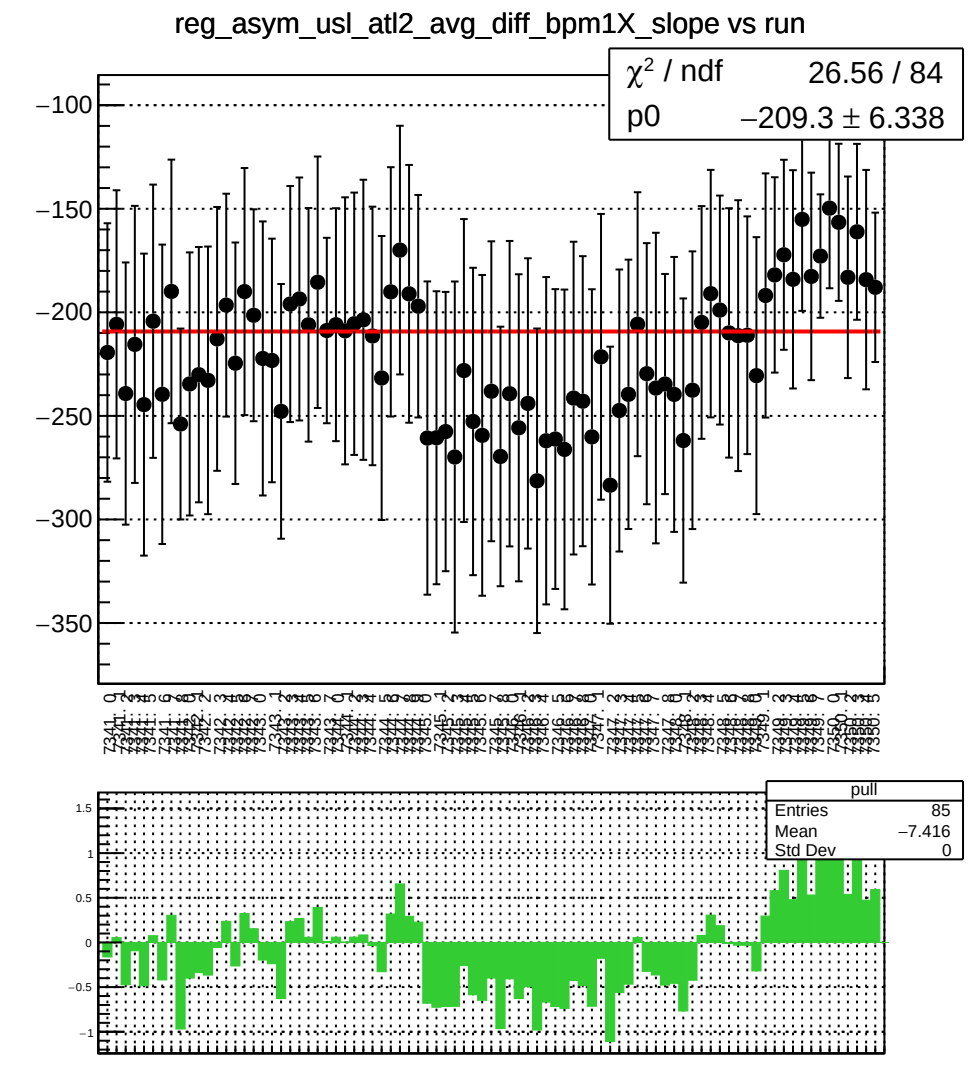

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.24 / 84
p0 −6.204 ± 1.106
pull
Entries 85
Mean 2.564
Std Dev 0

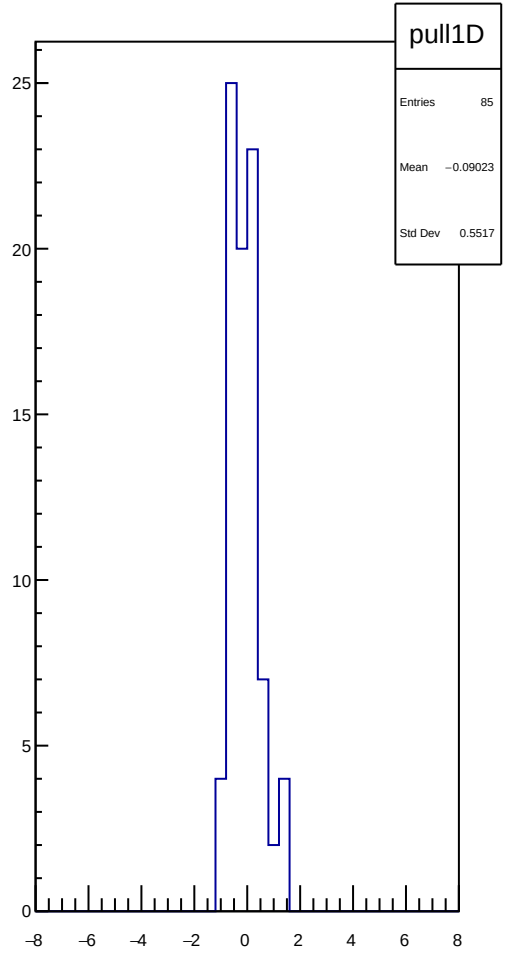

pull1D
Entries 85
Mean −0.07877
Std Dev 0.9121

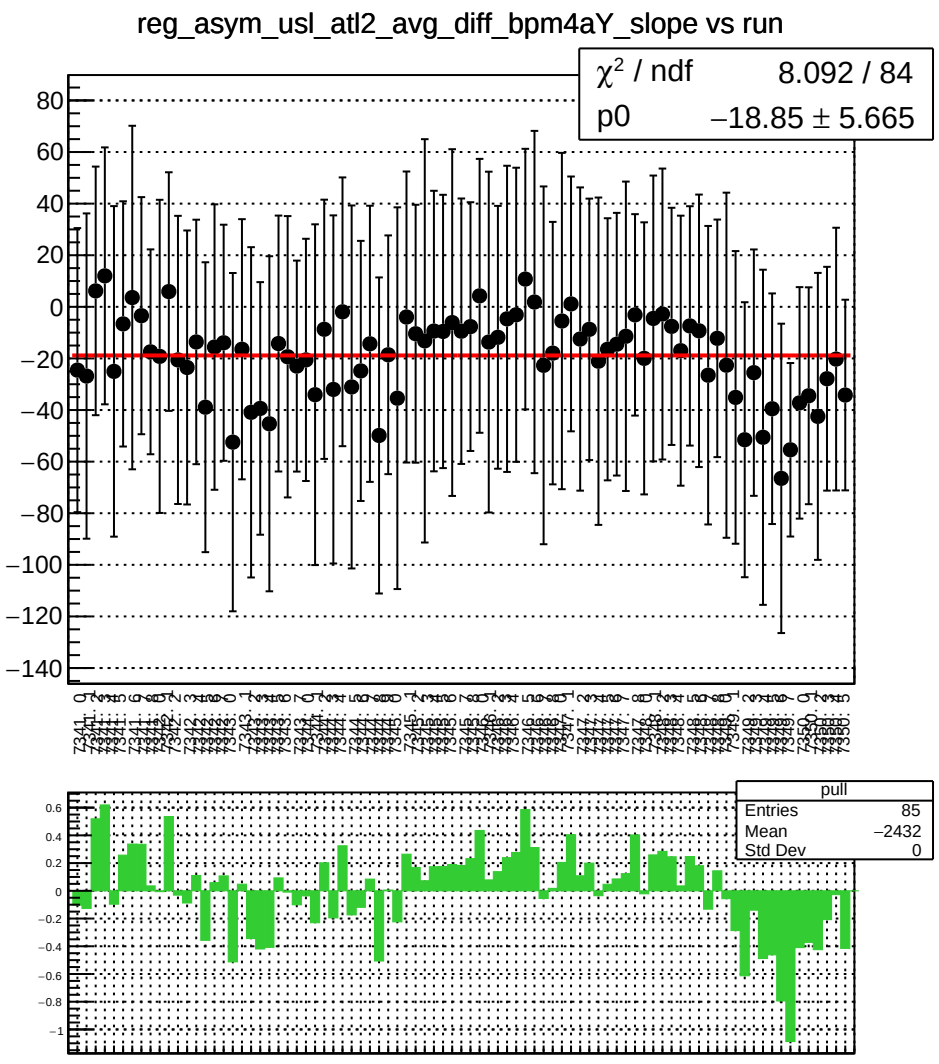

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.79 / 84
p0 8.791 ± 1.096
pull
Entries 85
Mean 101.2
Std Dev 0

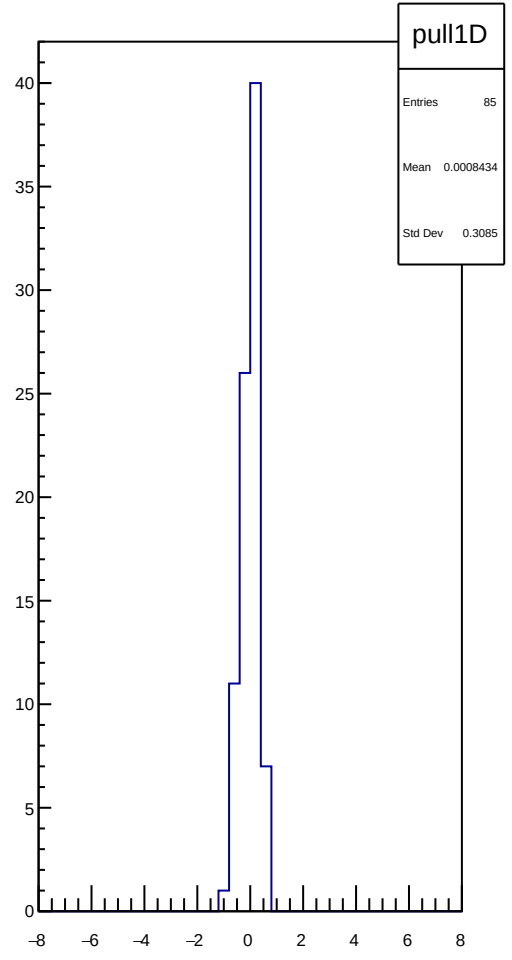

pull1D
Entries 85
Mean 0.02076
Std Dev 0.8454

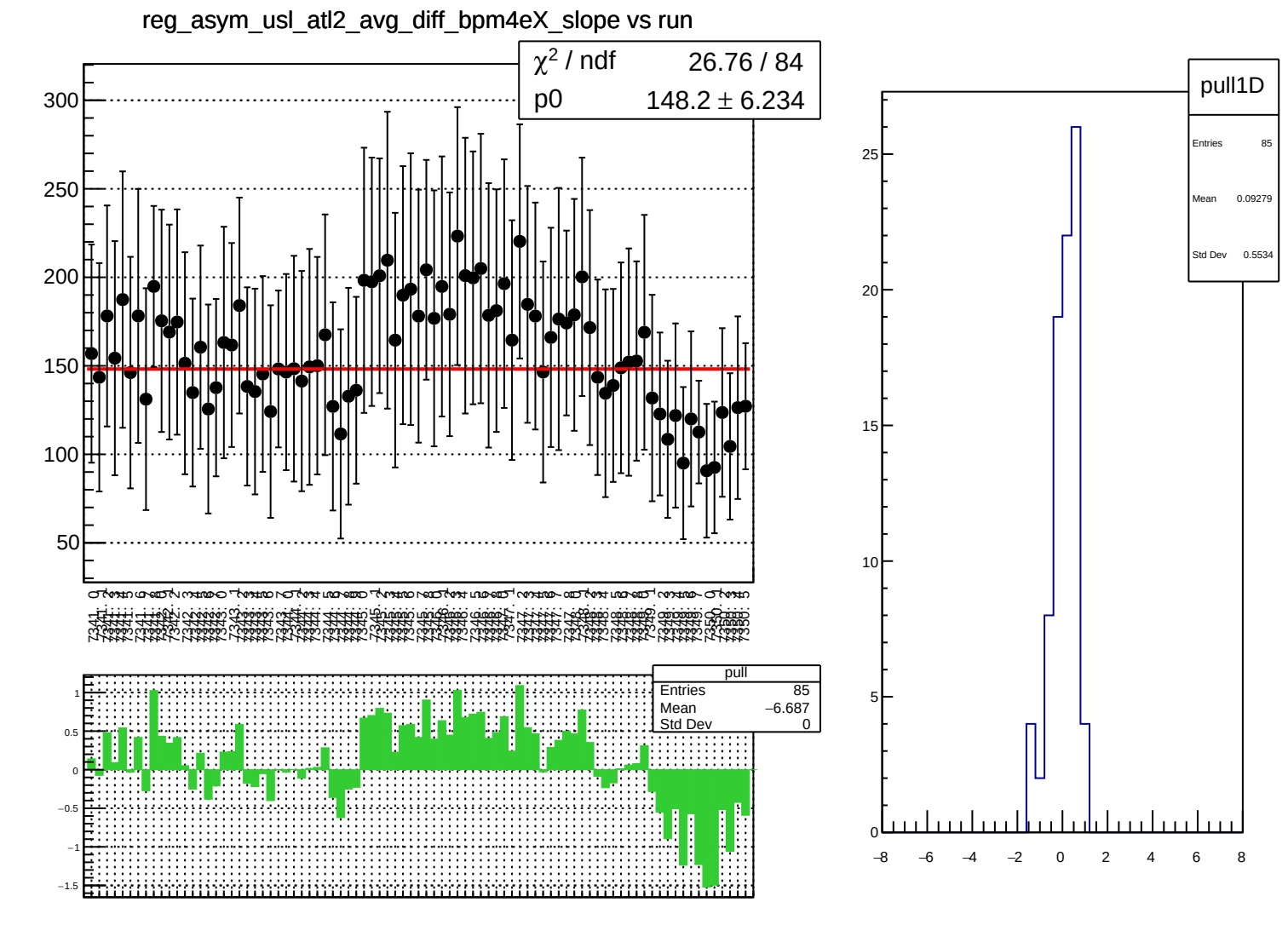

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 78.57 / 84
p0 −12.49 ± 0.04886
−10.5
−11
−11.5
−12
−12.5
−13
−13.5
−14
pull
Entries 85
Mean −389.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 85
Mean −0.01297
Std Dev 0.9613
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

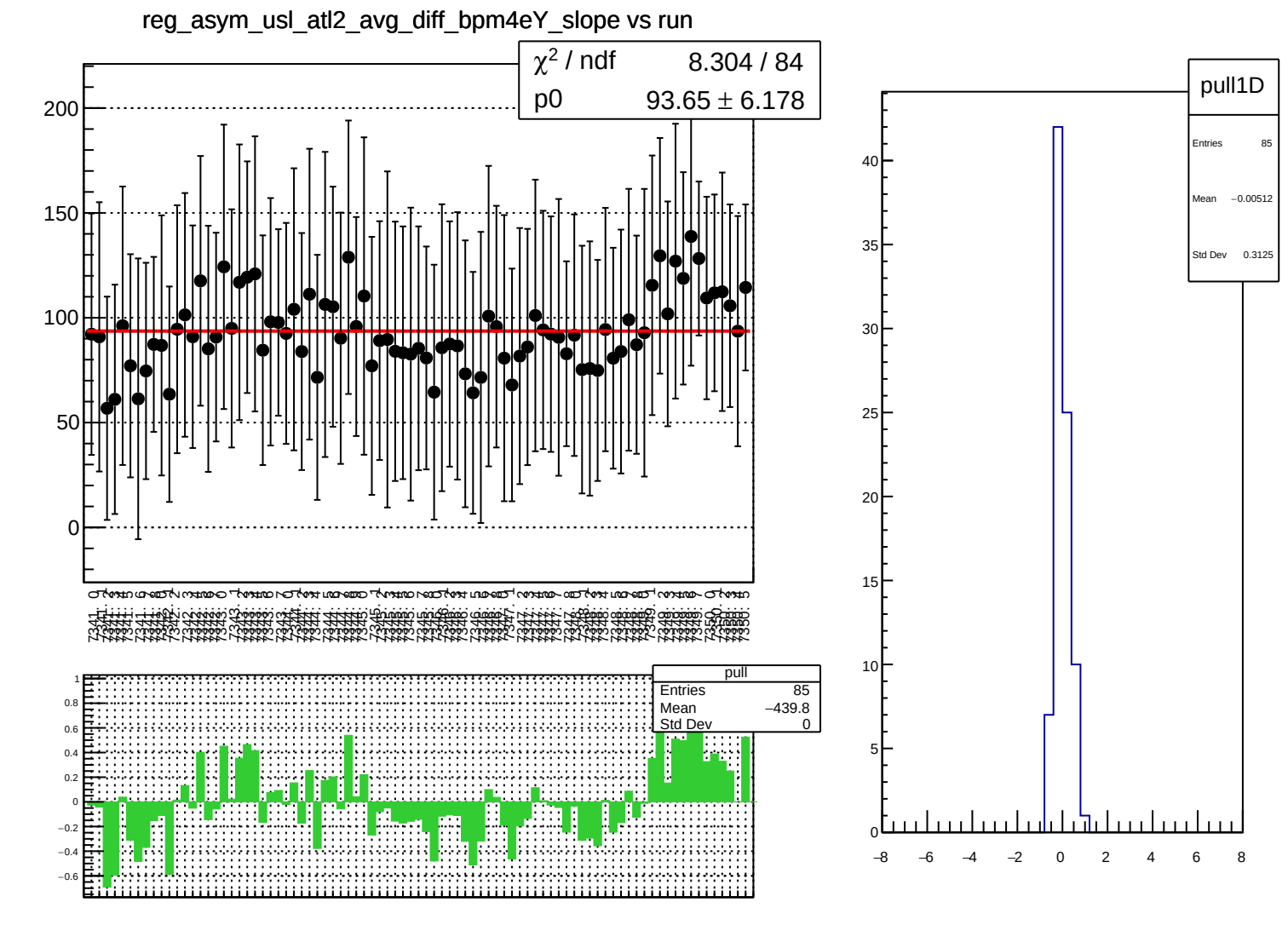

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 26.56 / 84
p0 −209.3 ± 6.338
−100
−150
−200
−250
−300
−350
pull
Entries 85
Mean −7.416
Std Dev 0
1.5
1
0.5
0
−0.5
−1

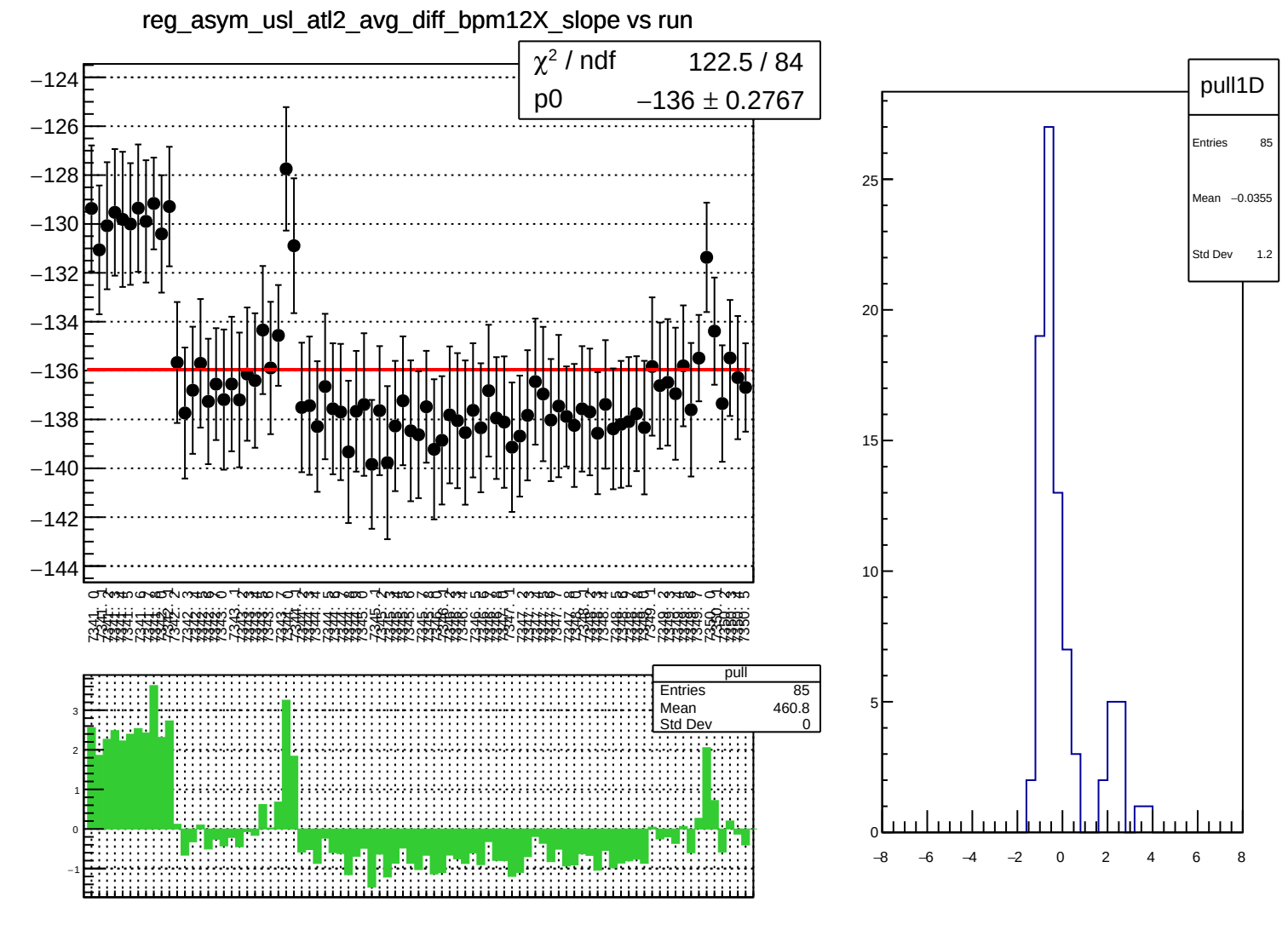

pull1D
Entries 85
Mean −0.09023
Std Dev 0.5517
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

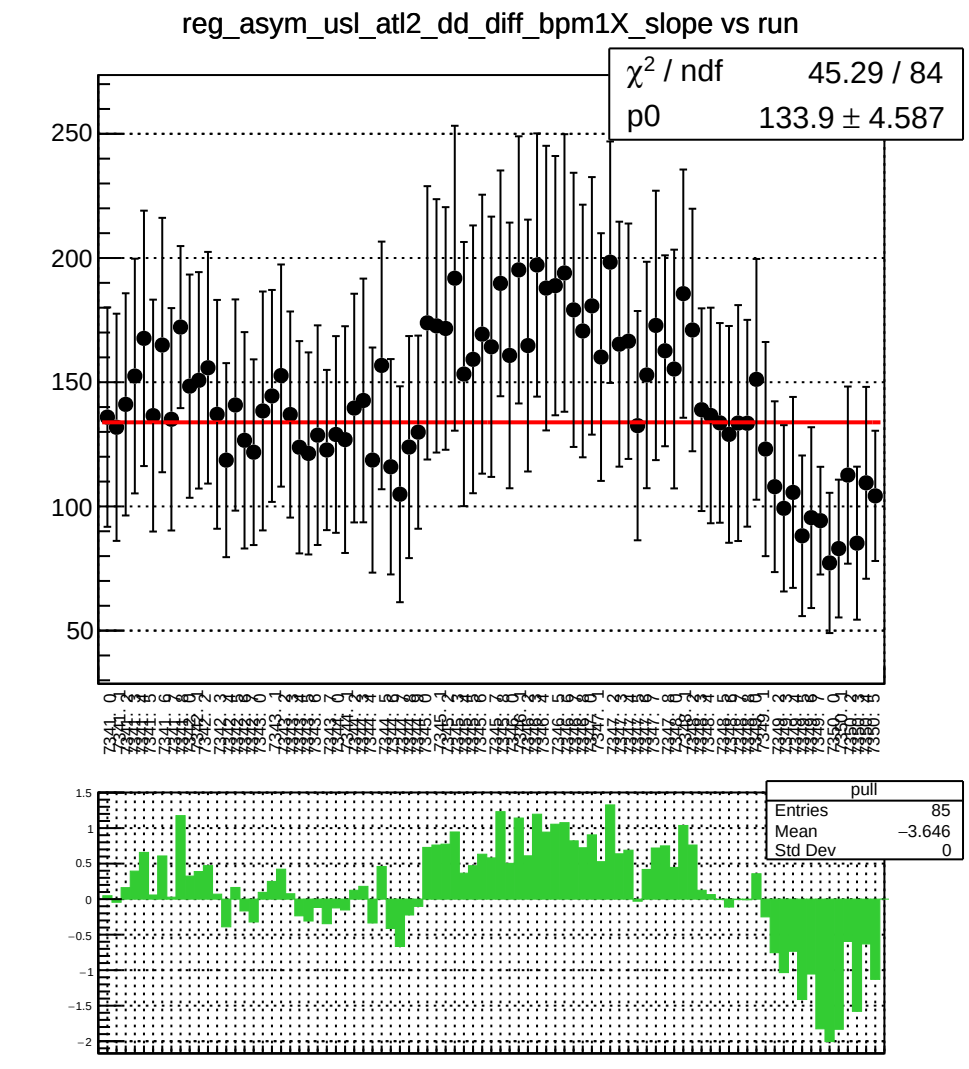

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.092 / 84
p0 −18.85 ± 5.665
pull
Entries 85
Mean −2432
Std Dev 0

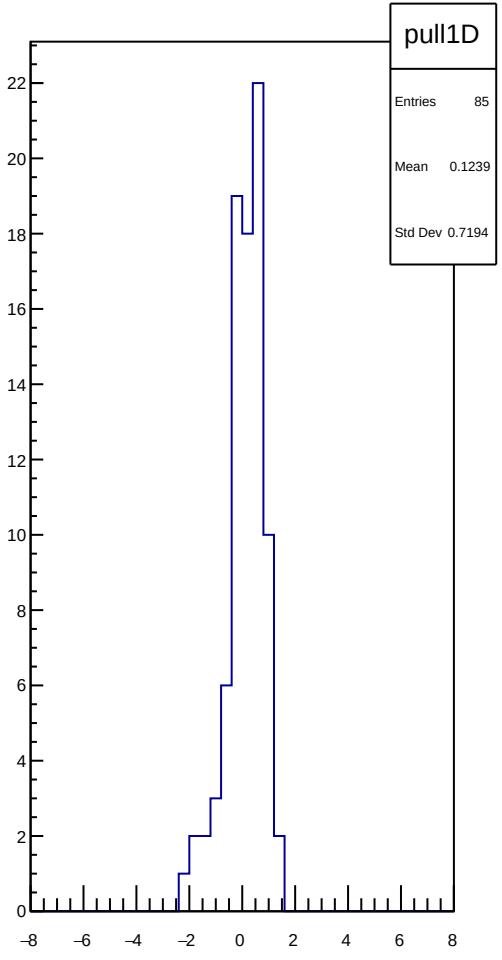

pull1D
Entries 85
Mean 0.0008434
Std Dev 0.3085

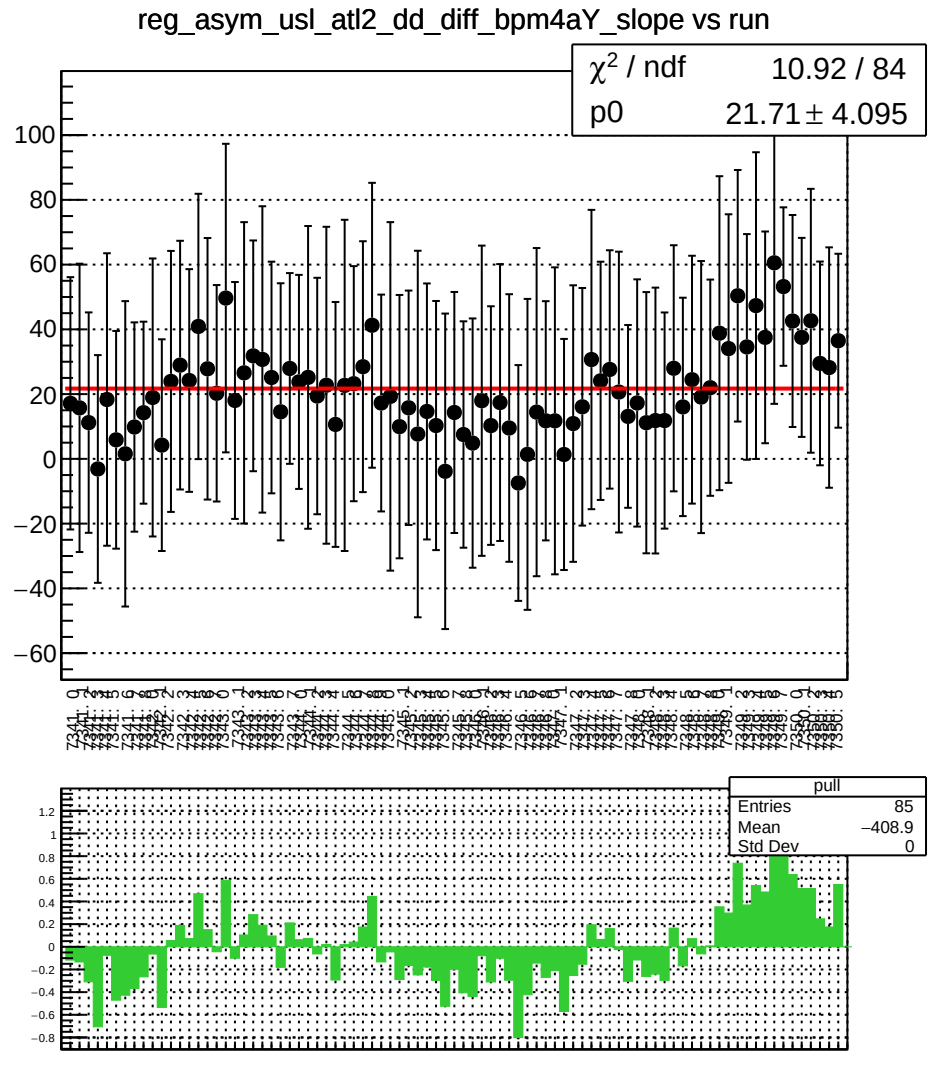

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.76 / 84
p0 148.2 ± 6.234
pull
Entries 85
Mean −6.687
Std Dev 0
pull1D
Entries 85
Mean 0.09279
Std Dev 0.5534

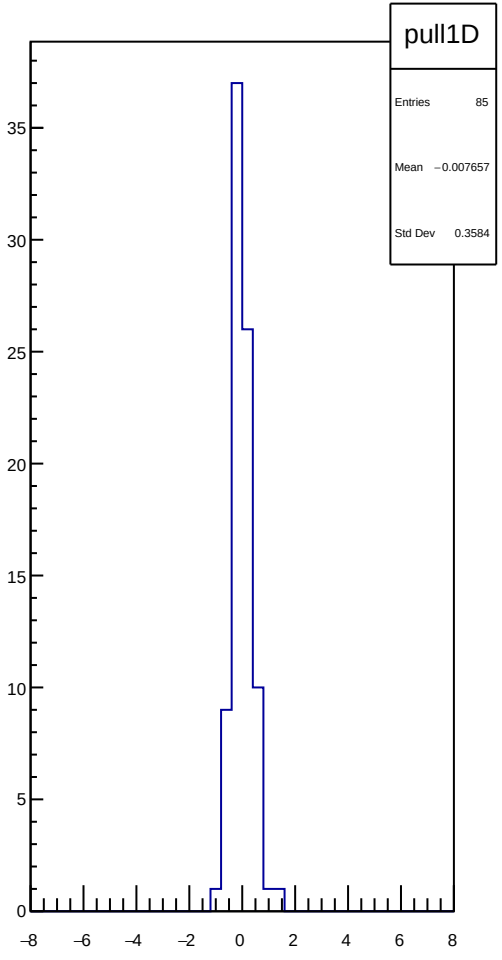

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.304 / 84
p0 93.65 ± 6.178
200
150
100
50
0
pull
Entries 85
Mean −439.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 85
Mean −0.00512
Std Dev 0.3125
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

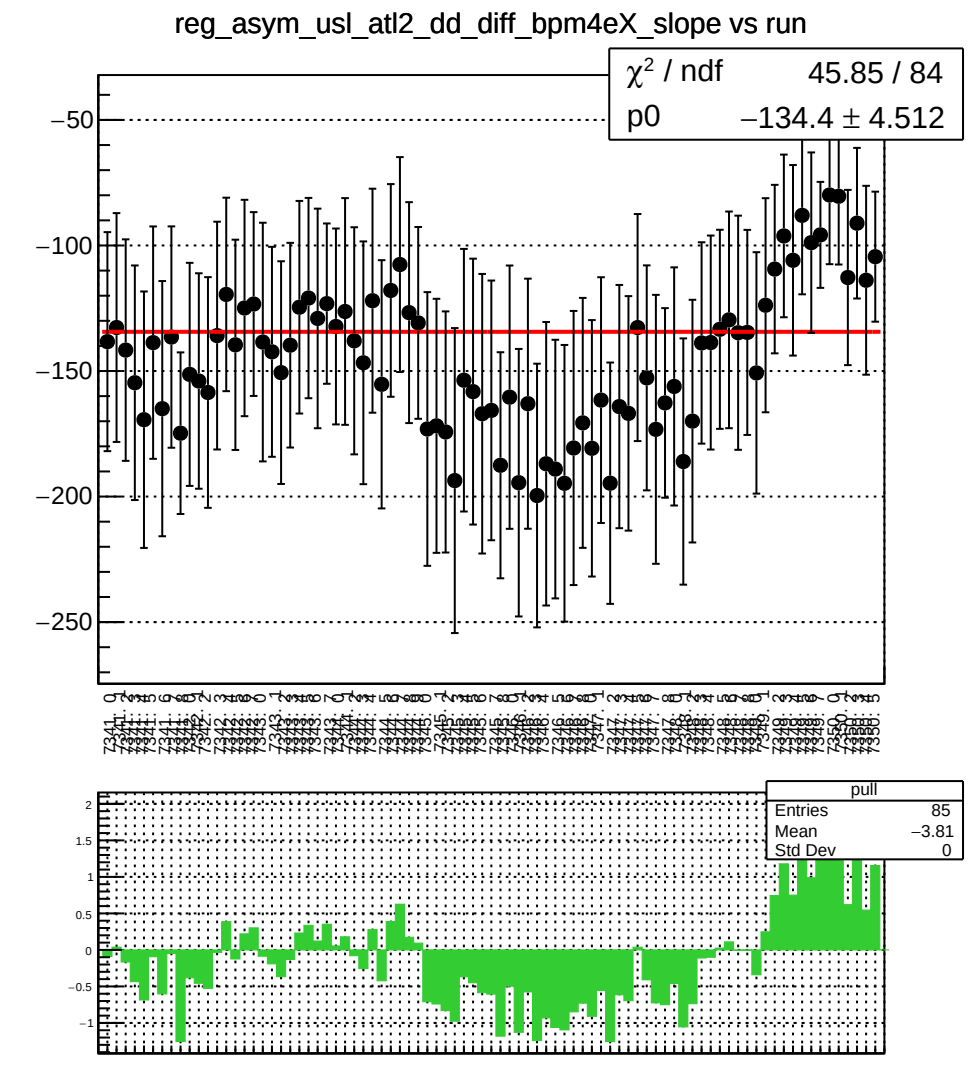

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 122.5 / 84
p0 −136 ± 0.2767
pull
Entries 85
Mean 460.8
Std Dev 0
pull1D
Entries 85
Mean −0.0355
Std Dev 1.2

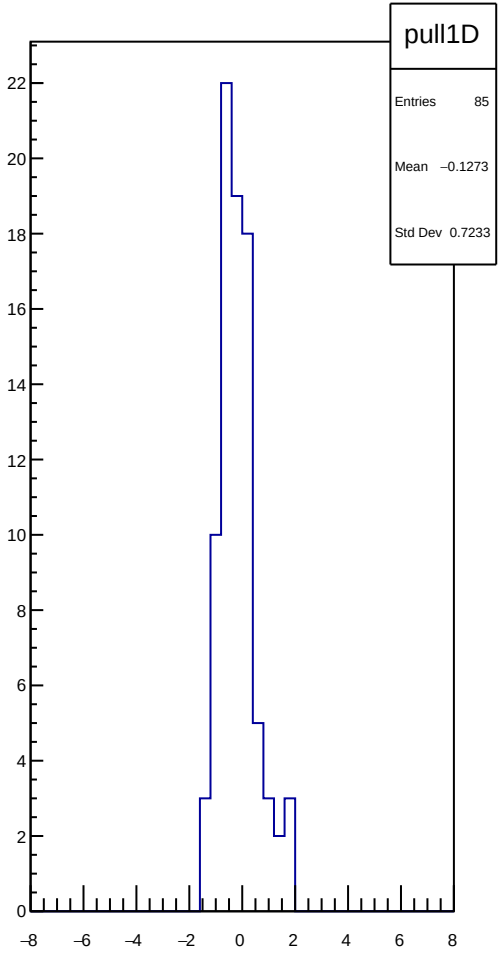

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 45.29 / 84
p0 133.9 ± 4.587
250
200
150
100
50
pull
Entries 85
Mean −3.646
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

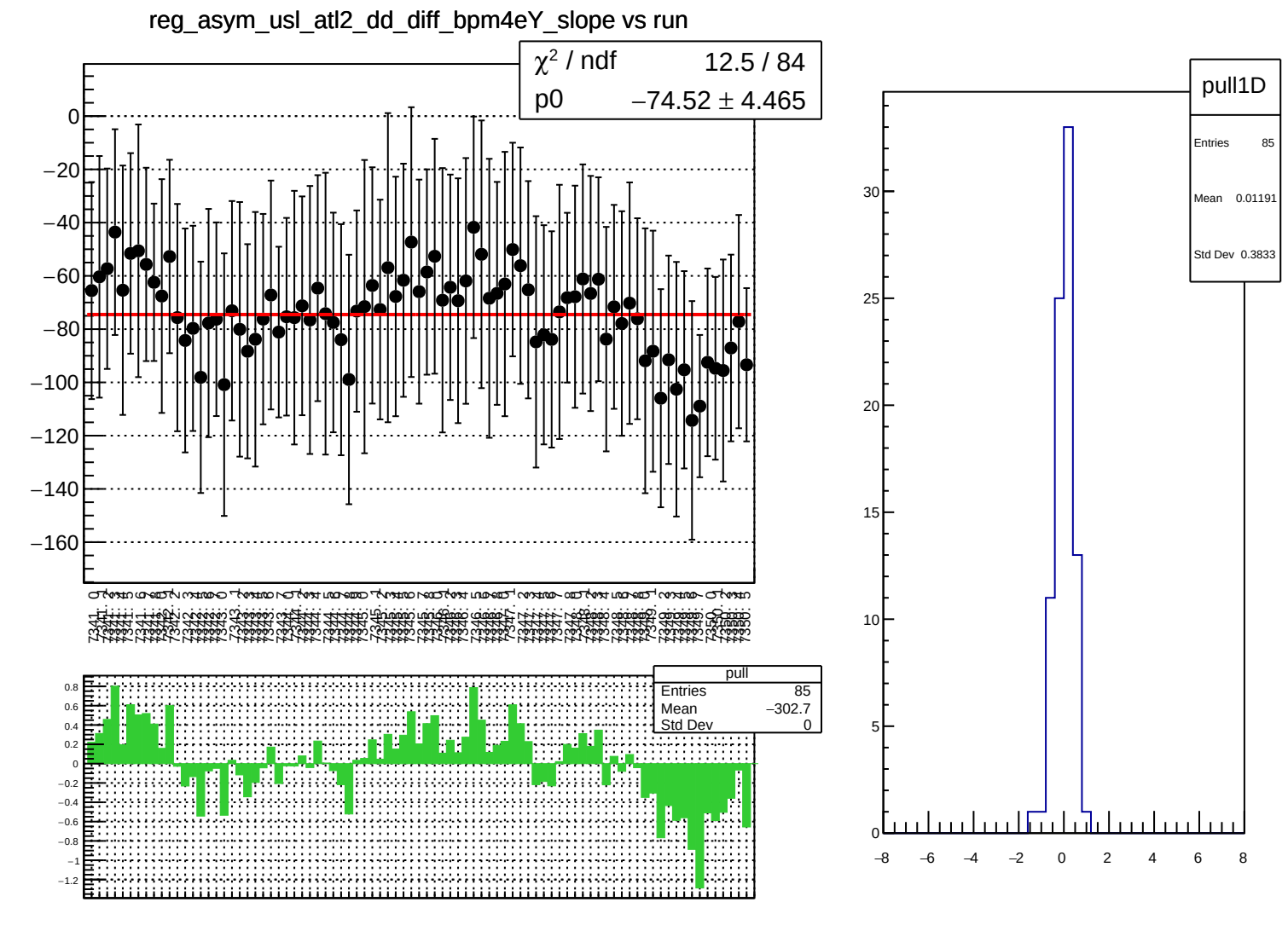

pull1D
Entries 85
Mean 0.1239
Std Dev 0.7194
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

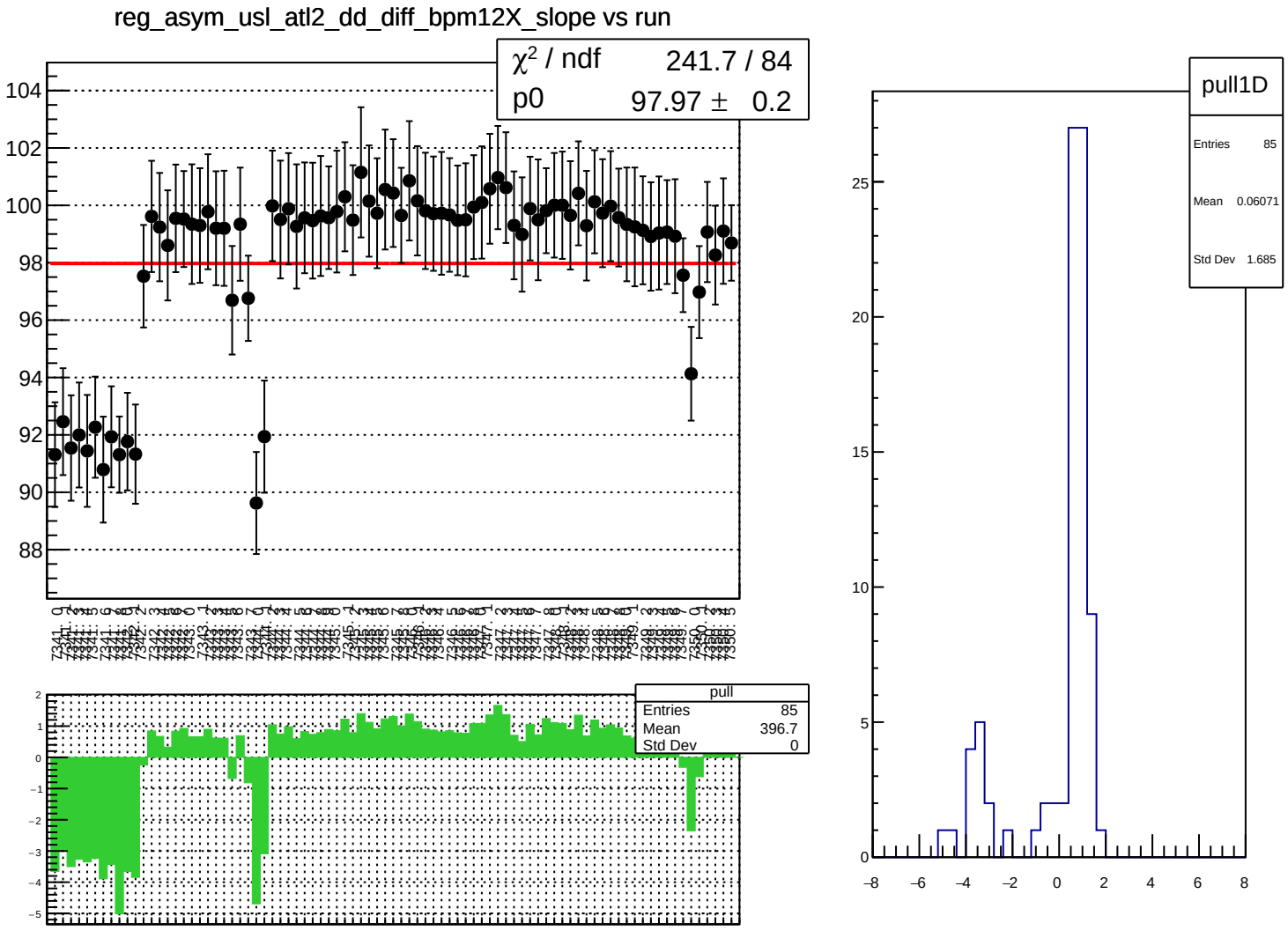

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.92 / 84
p0 21.71 ± 4.095
pull
Entries 85
Mean −408.9
Std Dev 0

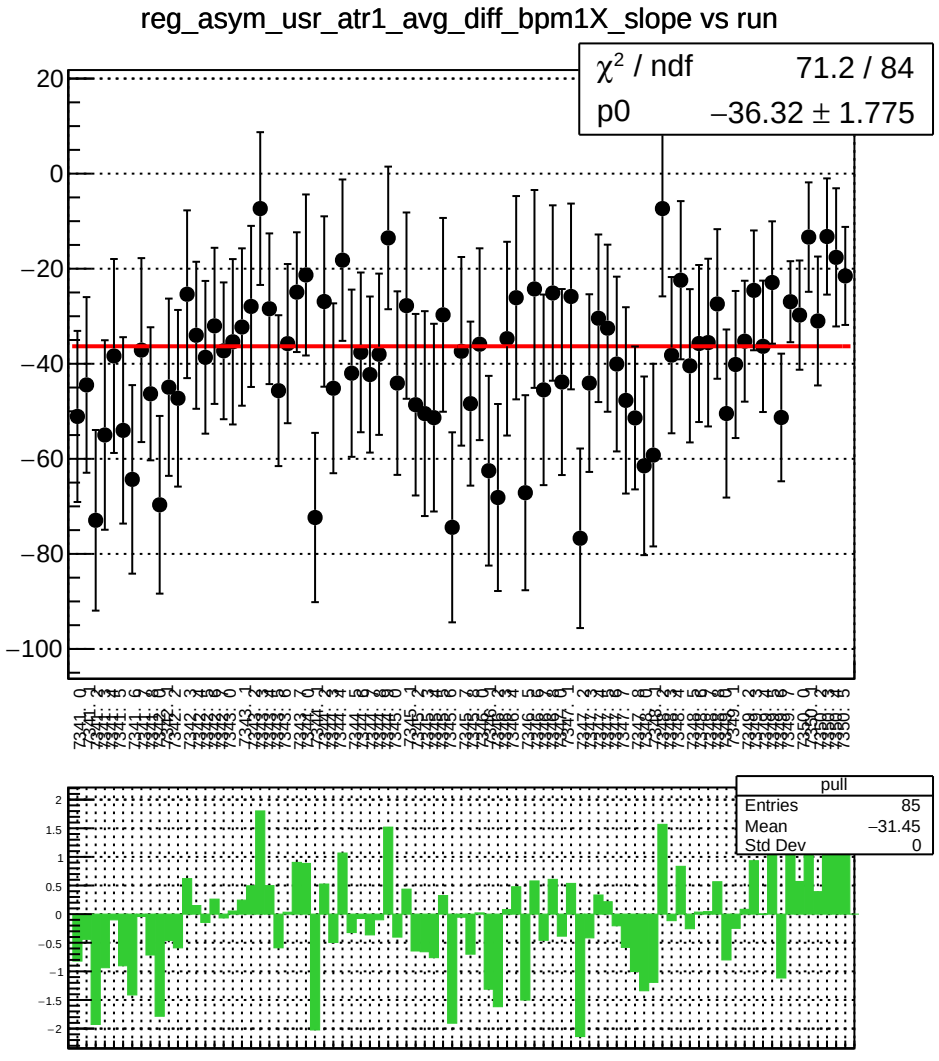

pull1D
Entries 85
Mean −0.007657
Std Dev 0.3584

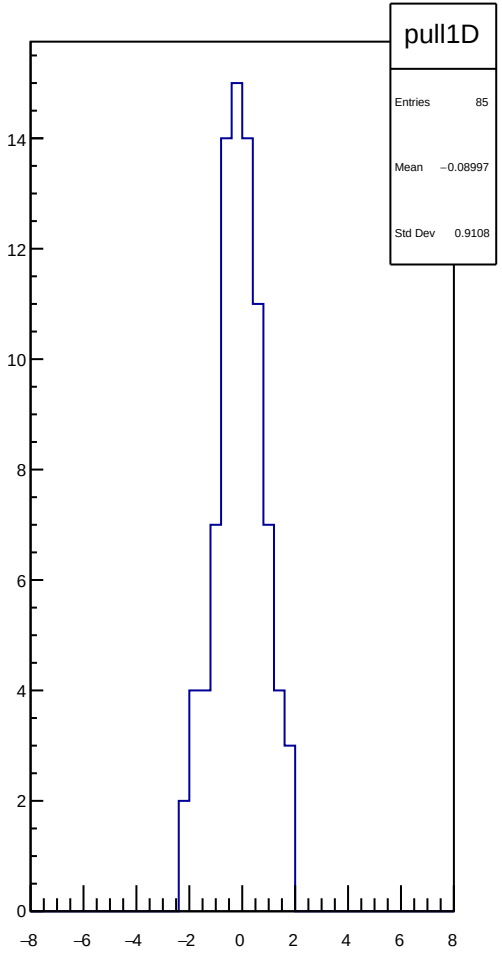

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.85 / 84
p0 −134.4 ± 4.512
pull
Entries 85
Mean −3.81
Std Dev 0

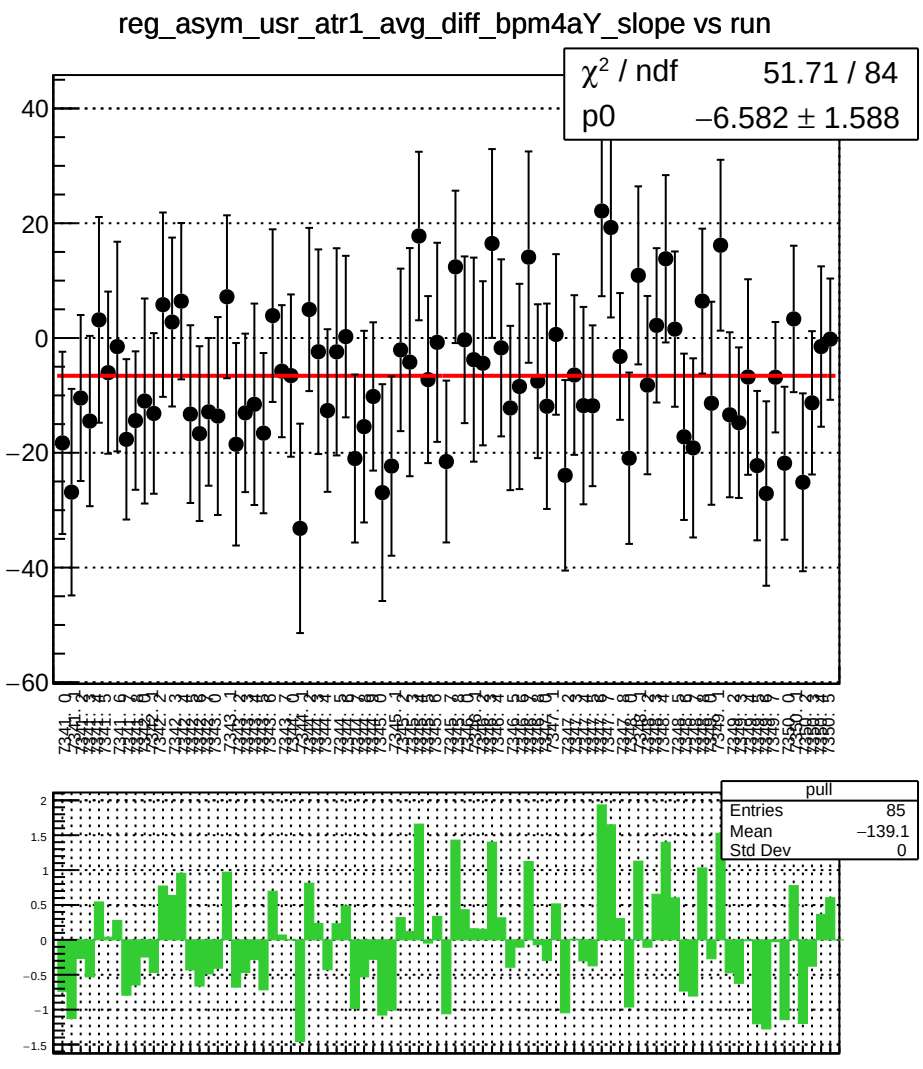

pull1D
Entries 85
Mean −0.1273
Std Dev 0.7233

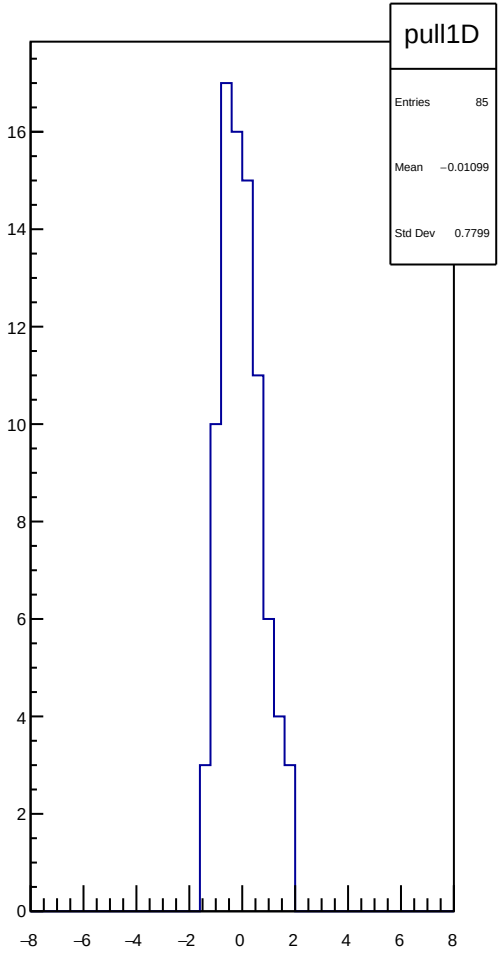

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.5 / 84
p0 −74.52 ± 4.465
pull
Entries 85
Mean −302.7
Std Dev 0
pull1D
Entries 85
Mean 0.01191
Std Dev 0.3833

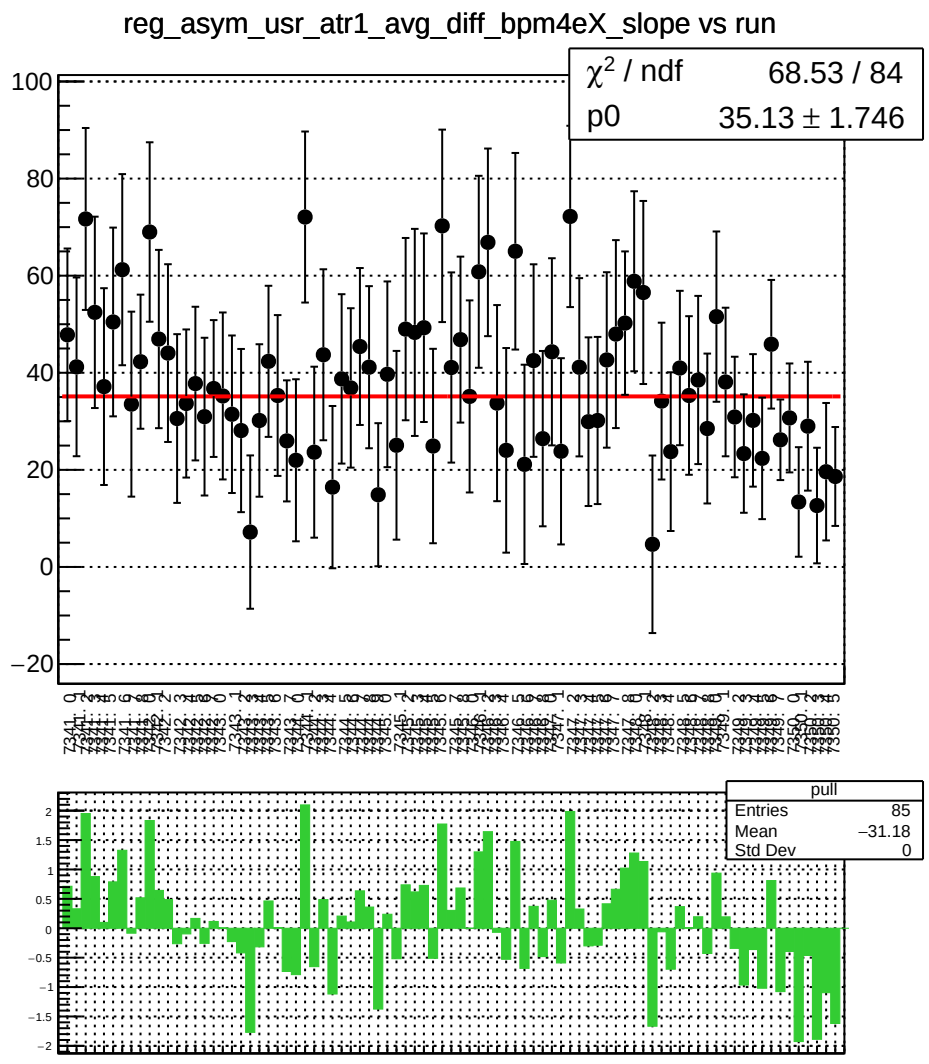

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 241.7 / 84
p0 97.97 ± 0.2
pull
Entries 85
Mean 396.7
Std Dev 0
pull1D
Entries 85
Mean 0.06071
Std Dev 1.685

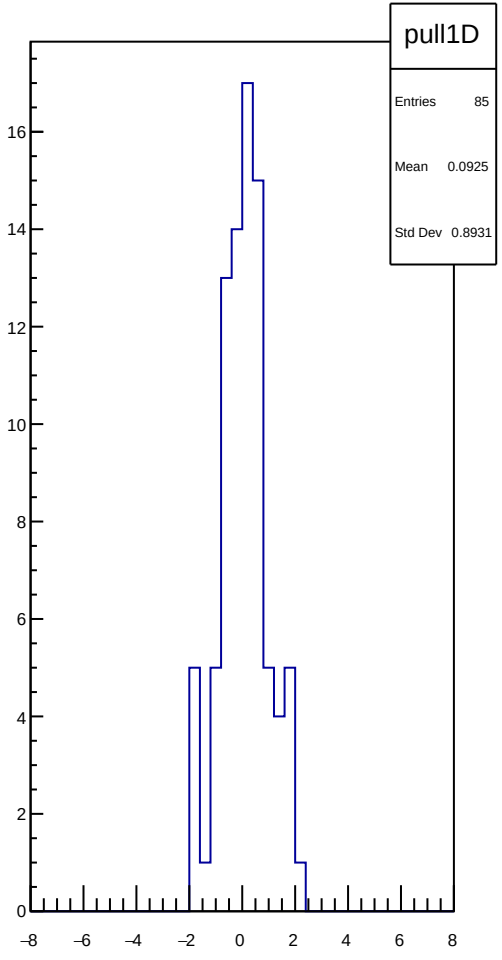

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 71.2 / 84
p0 −36.32 ± 1.775
pull
Entries 85
Mean −31.45
Std Dev 0

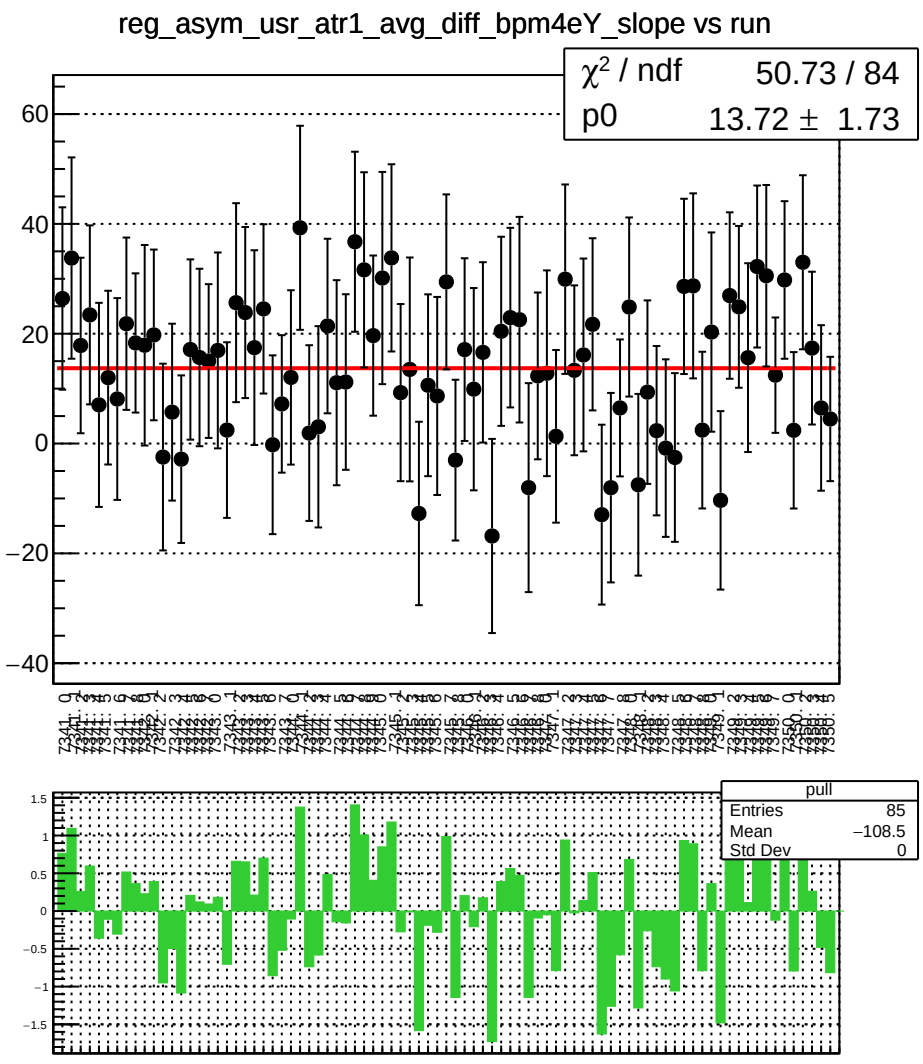

pull1D
Entries 85
Mean −0.08997
Std Dev 0.9108

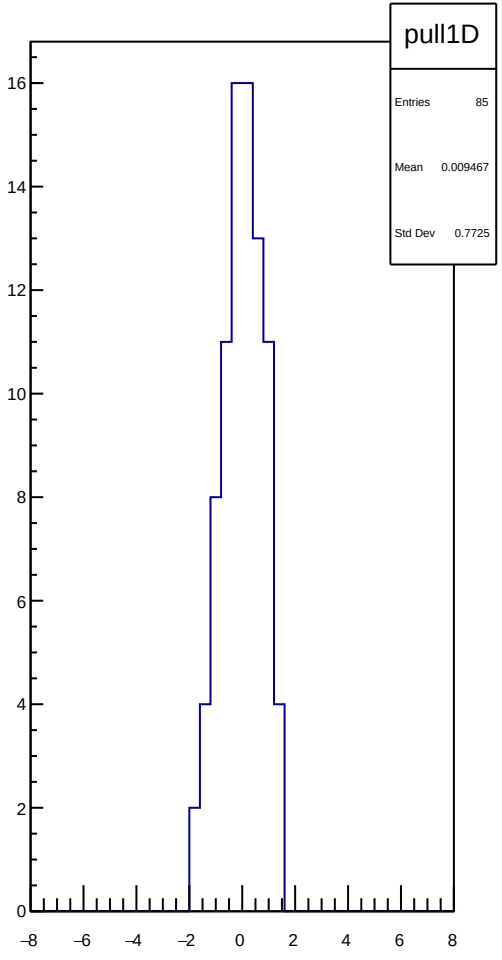

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.71 / 84
p0 −6.582 ± 1.588
pull
Entries 85
Mean −139.1
Std Dev 0

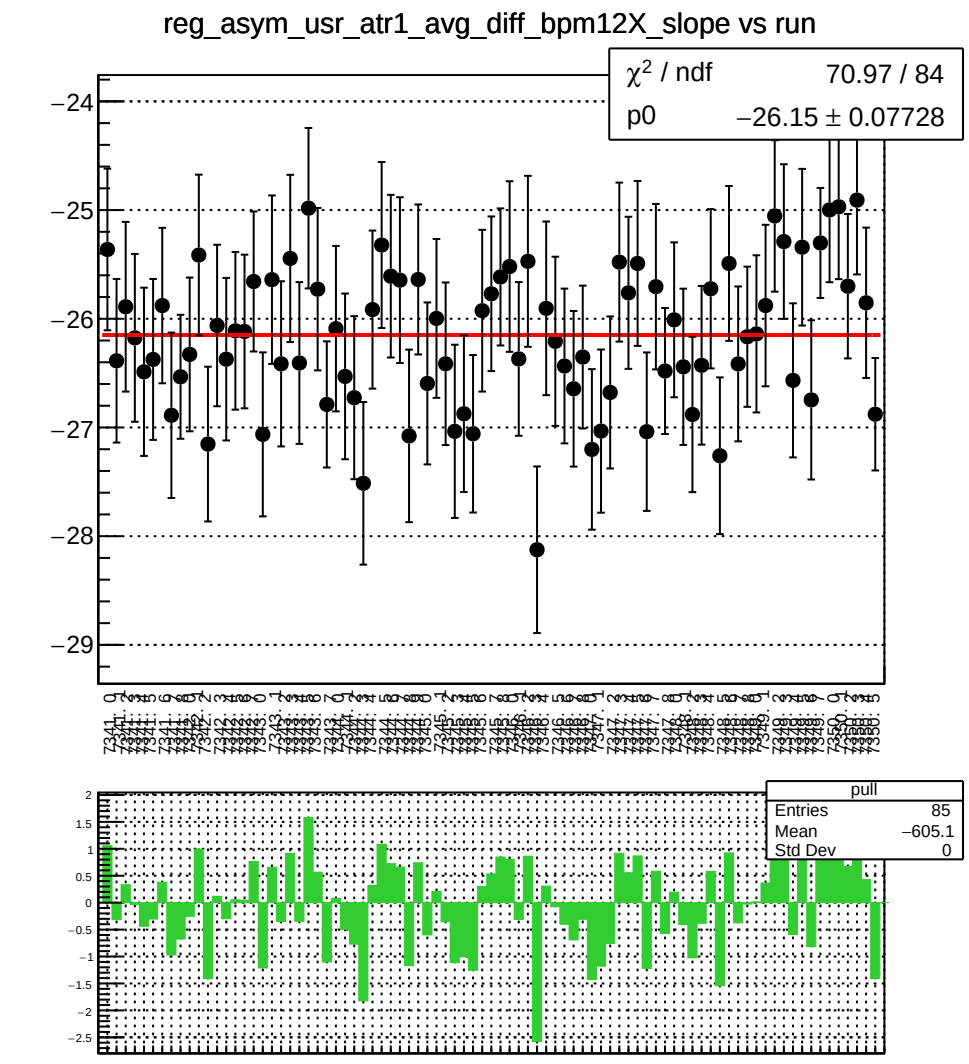

pull1D
Entries 85
Mean −0.01099
Std Dev 0.7799

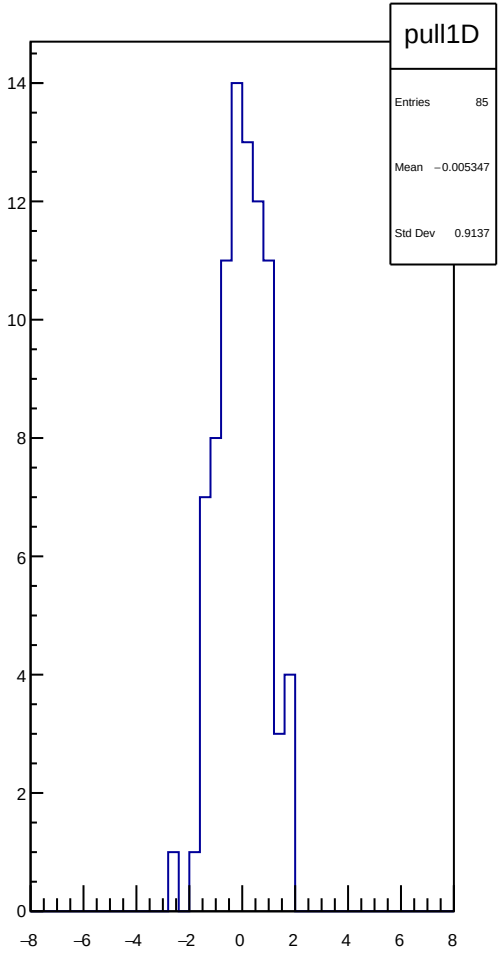

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.53 / 84
p0 35.13 ± 1.746
pull
Entries 85
Mean −31.18
Std Dev 0

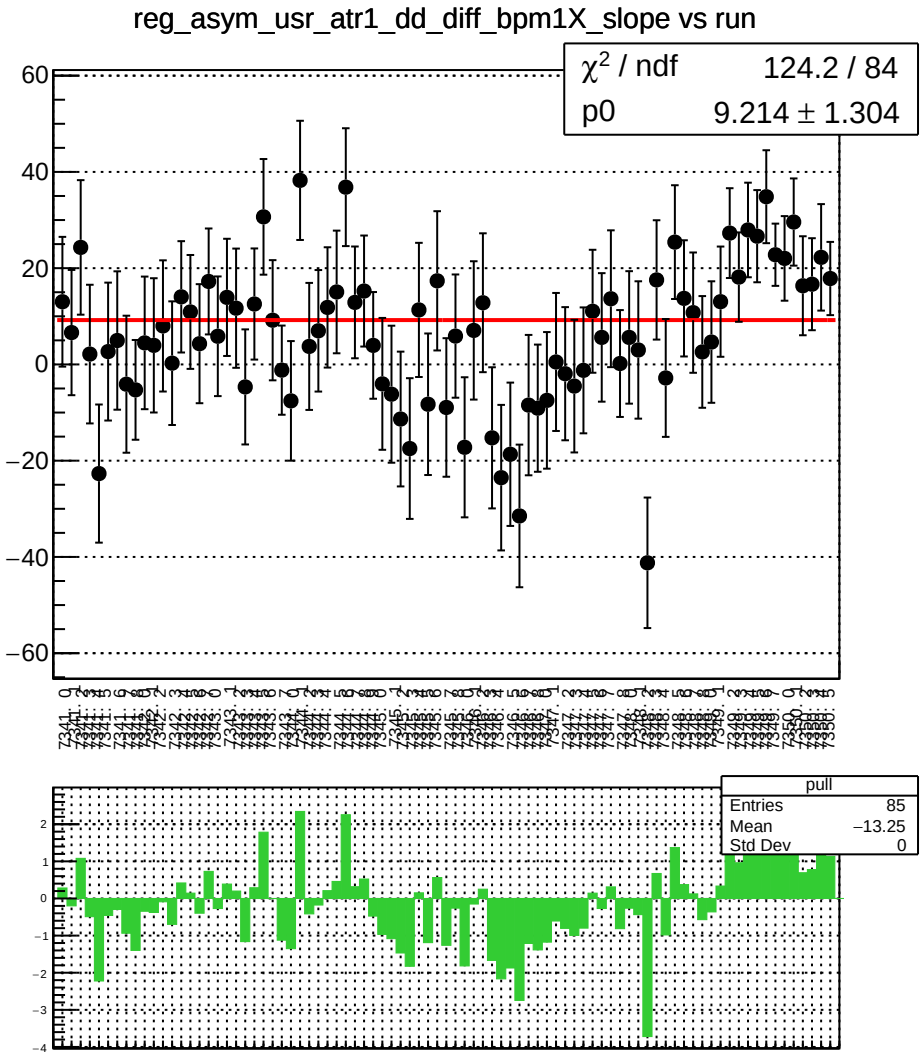

pull1D
Entries 85
Mean 0.0925
Std Dev 0.8931

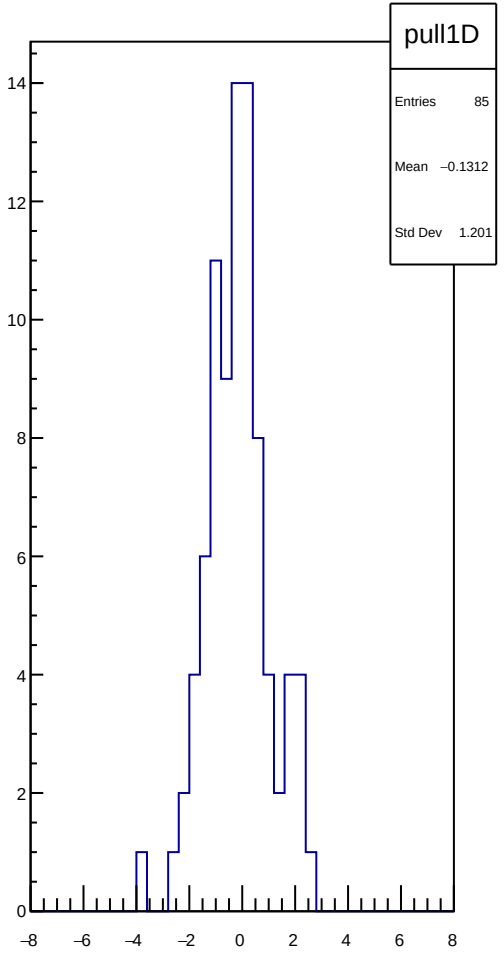

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.73 / 84
p0 13.72 ± 1.73
pull
Entries 85
Mean −108.5
Std Dev 0

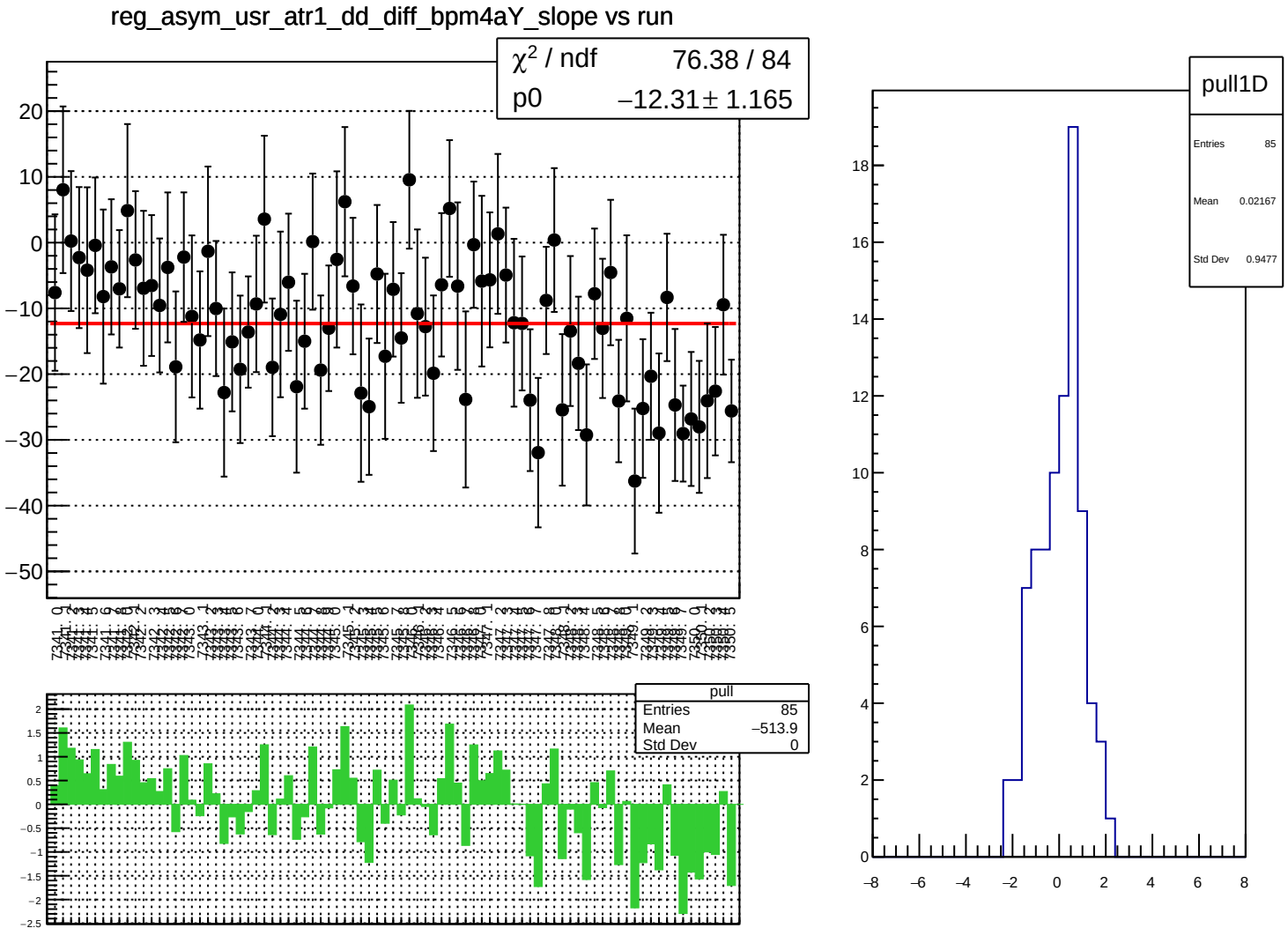

pull1D
Entries 85
Mean 0.009467
Std Dev 0.7725

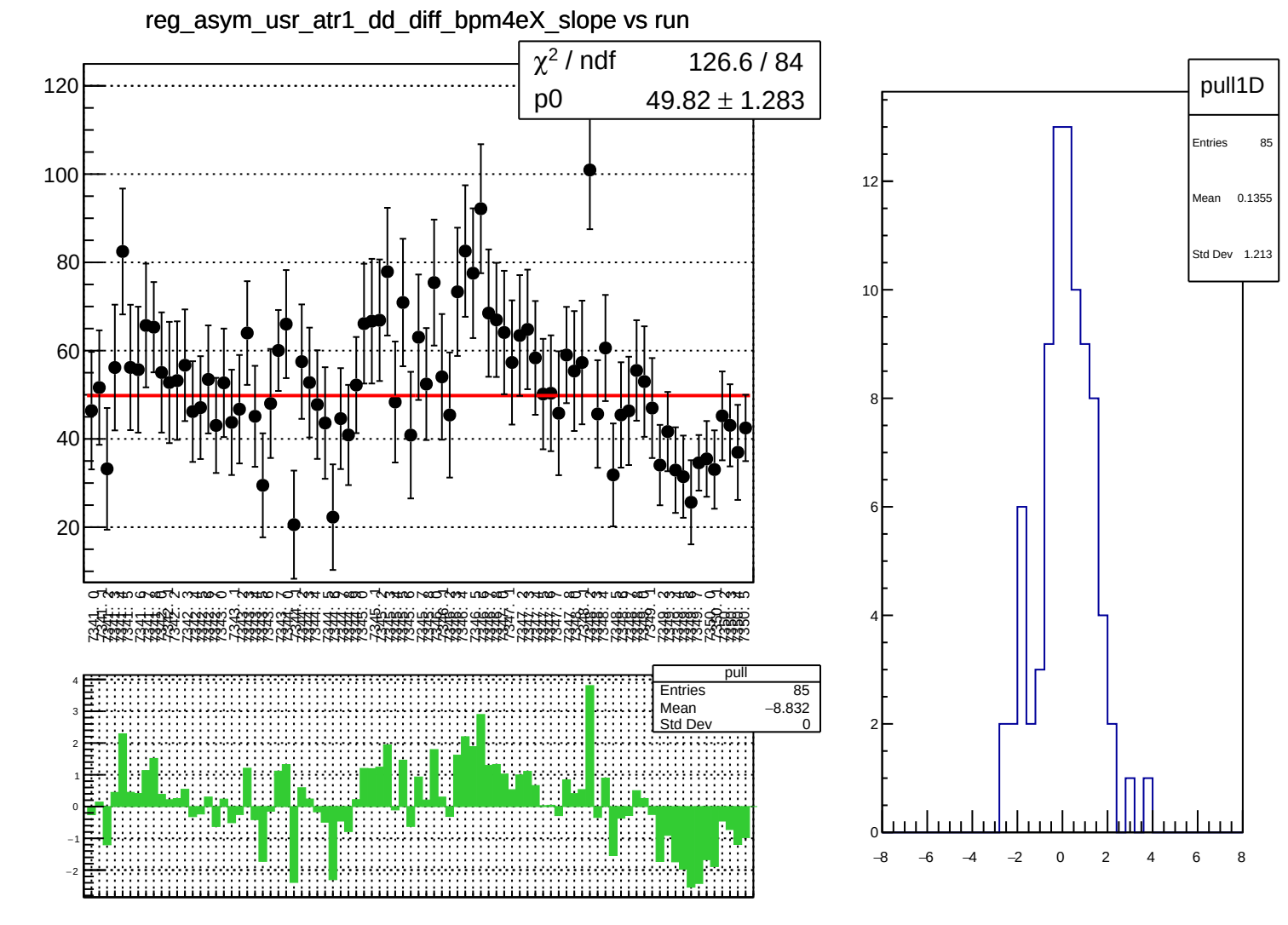

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 70.97 / 84
p0 −26.15 ± 0.07728
pull
Entries 85
Mean −605.1
Std Dev 0

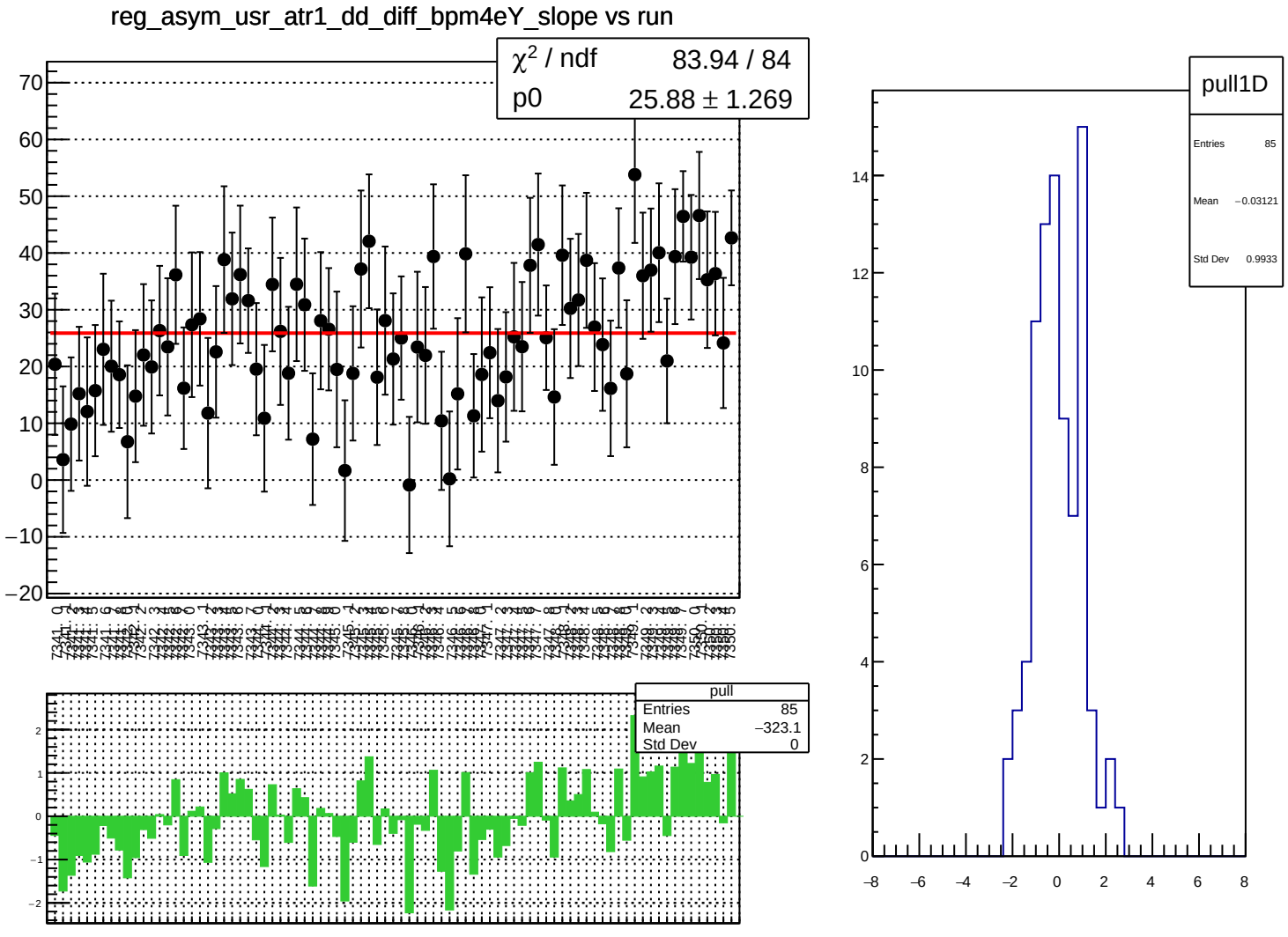

pull1D
Entries 85
Mean −0.005347
Std Dev 0.9137

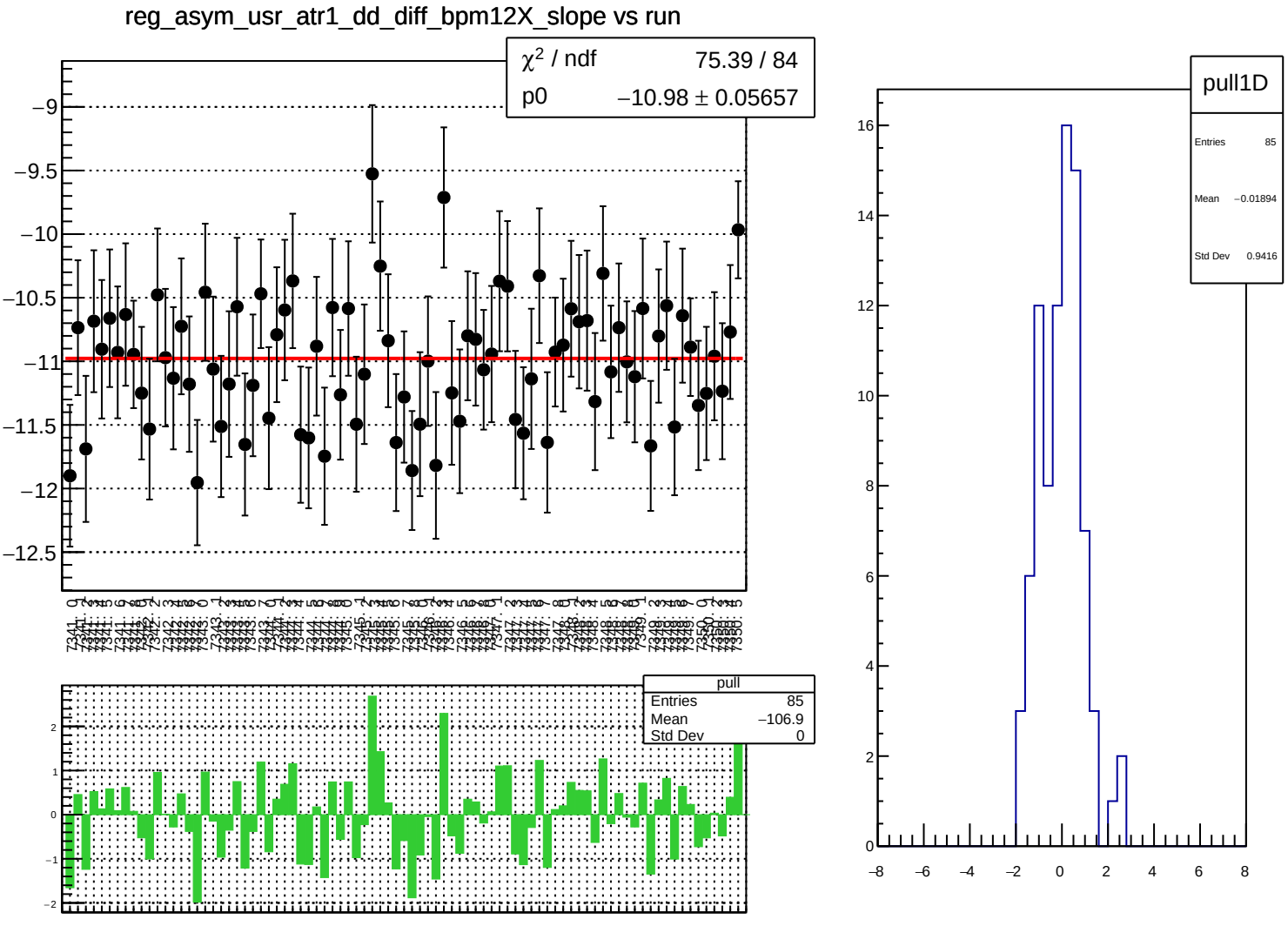

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 124.2 / 84
p0 9.214 ± 1.304
pull
Entries 85
Mean −13.25
Std Dev 0

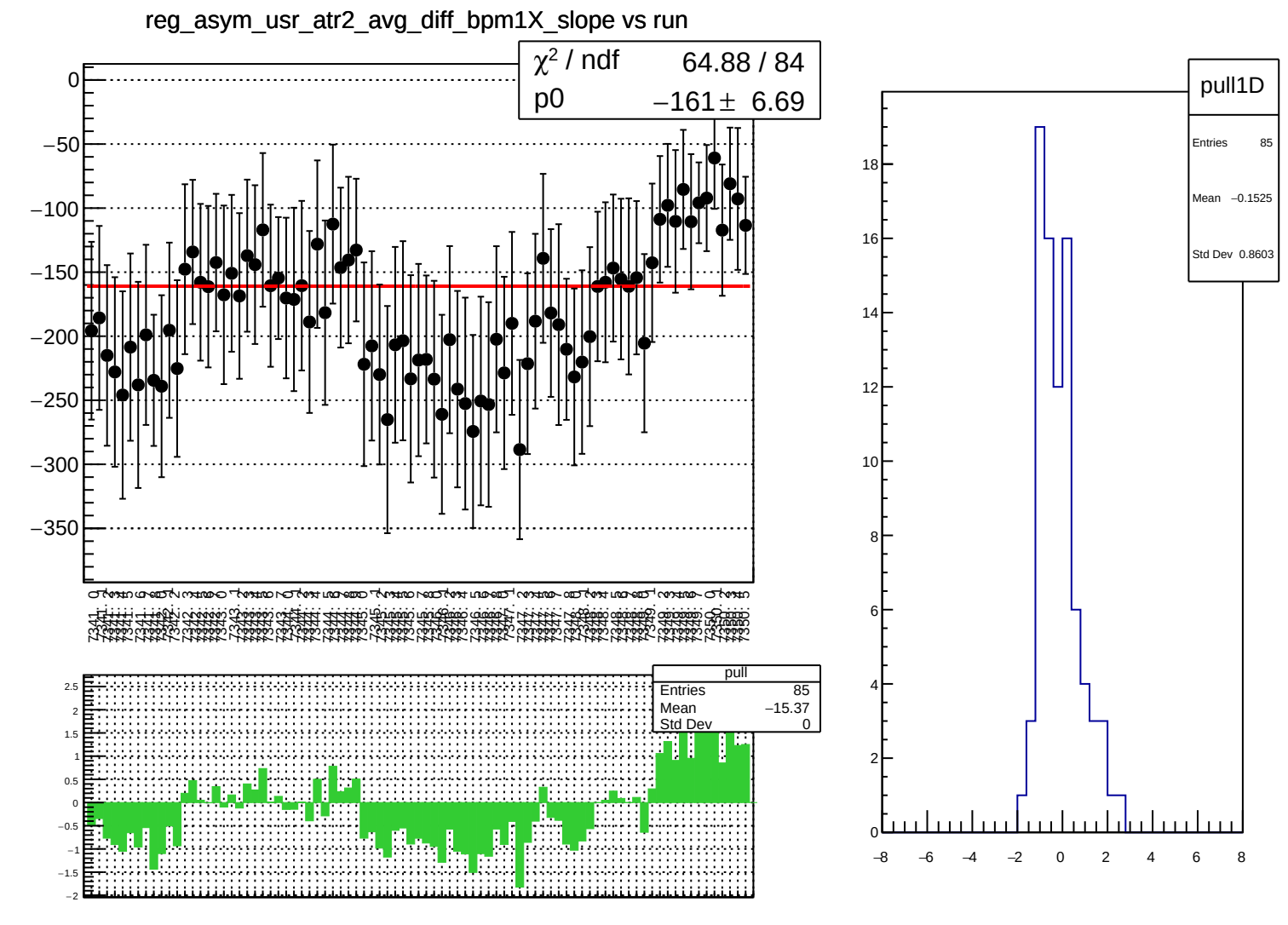

pull1D
Entries 85
Mean −0.1312
Std Dev 1.201

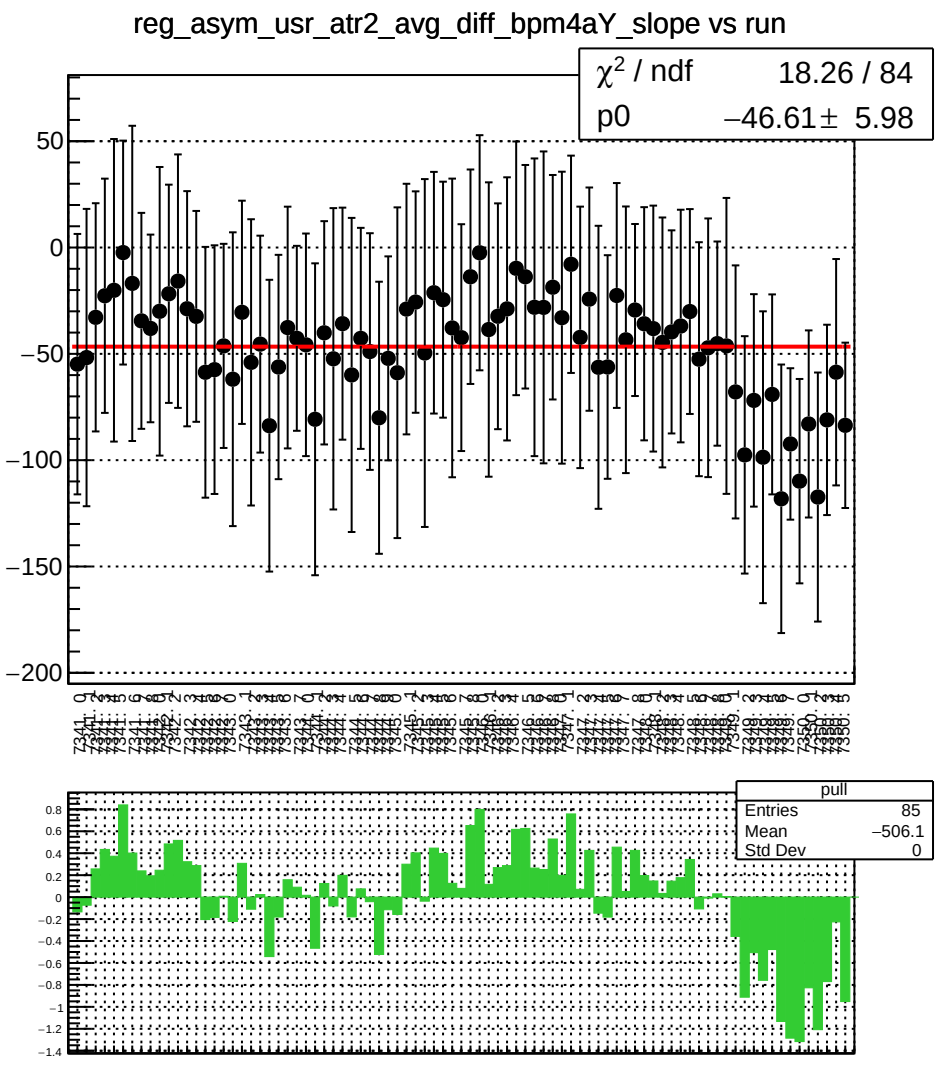

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.38 / 84
p0 −12.31 ± 1.165
pull
Entries 85
Mean −513.9
Std Dev 0
pull1D
Entries 85
Mean 0.02167
Std Dev 0.9477

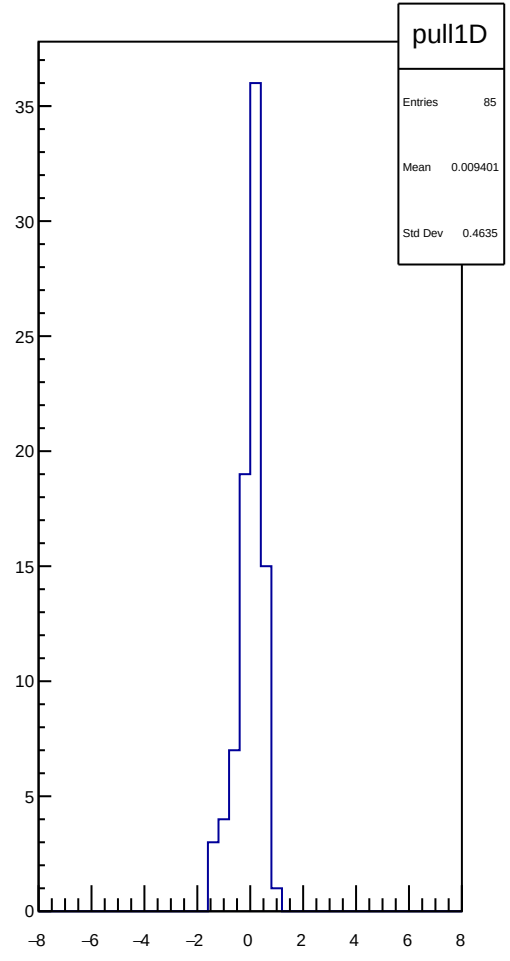

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 126.6 / 84
p0 49.82 ± 1.283
pull
Entries 85
Mean −8.832
Std Dev 0
pull1D
Entries 85
Mean 0.1355
Std Dev 1.213

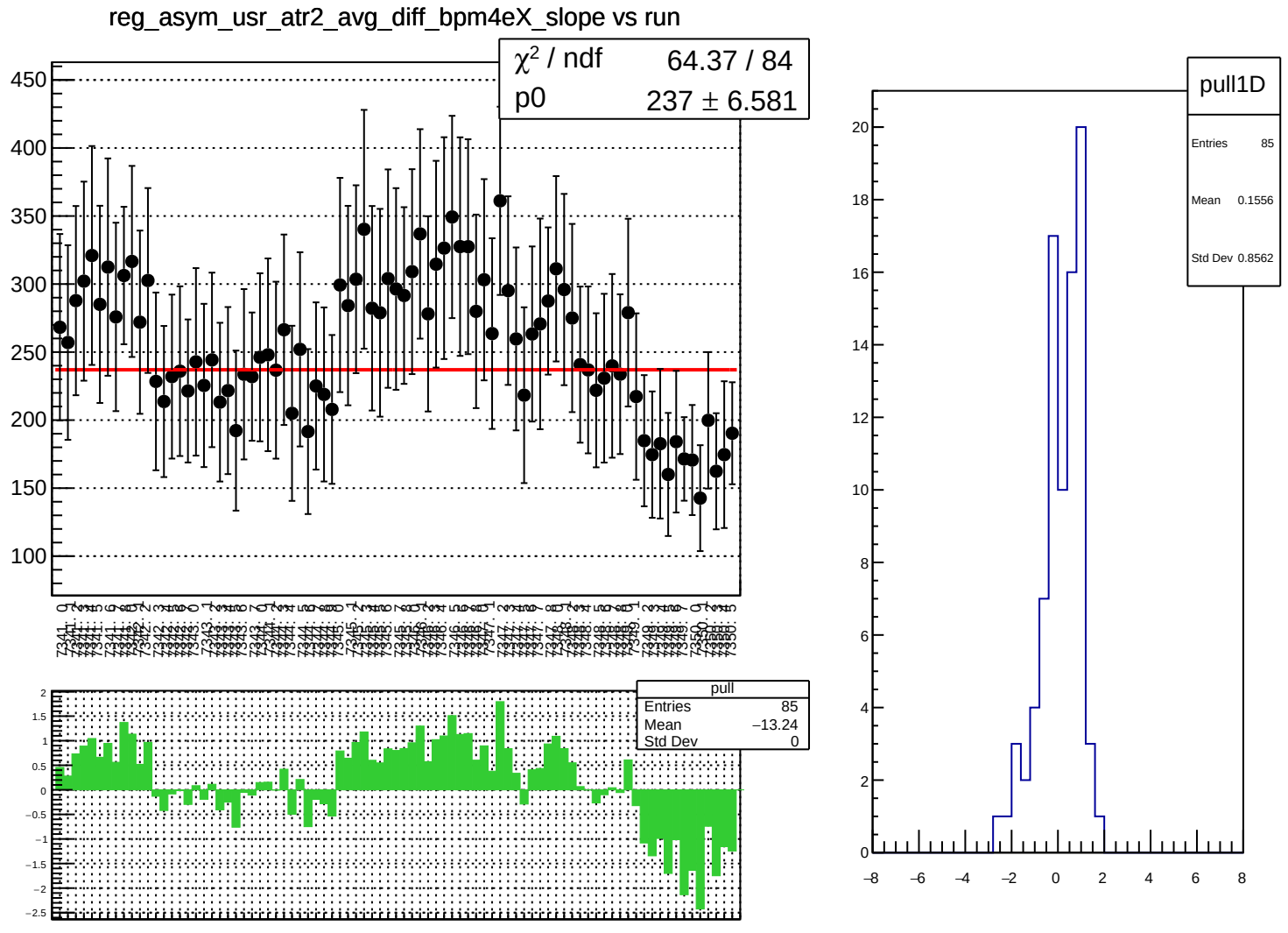

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.94 / 84
p0 25.88 ± 1.269
pull
Entries 85
Mean −323.1
Std Dev 0
pull1D
Entries 85
Mean −0.03121
Std Dev 0.9933

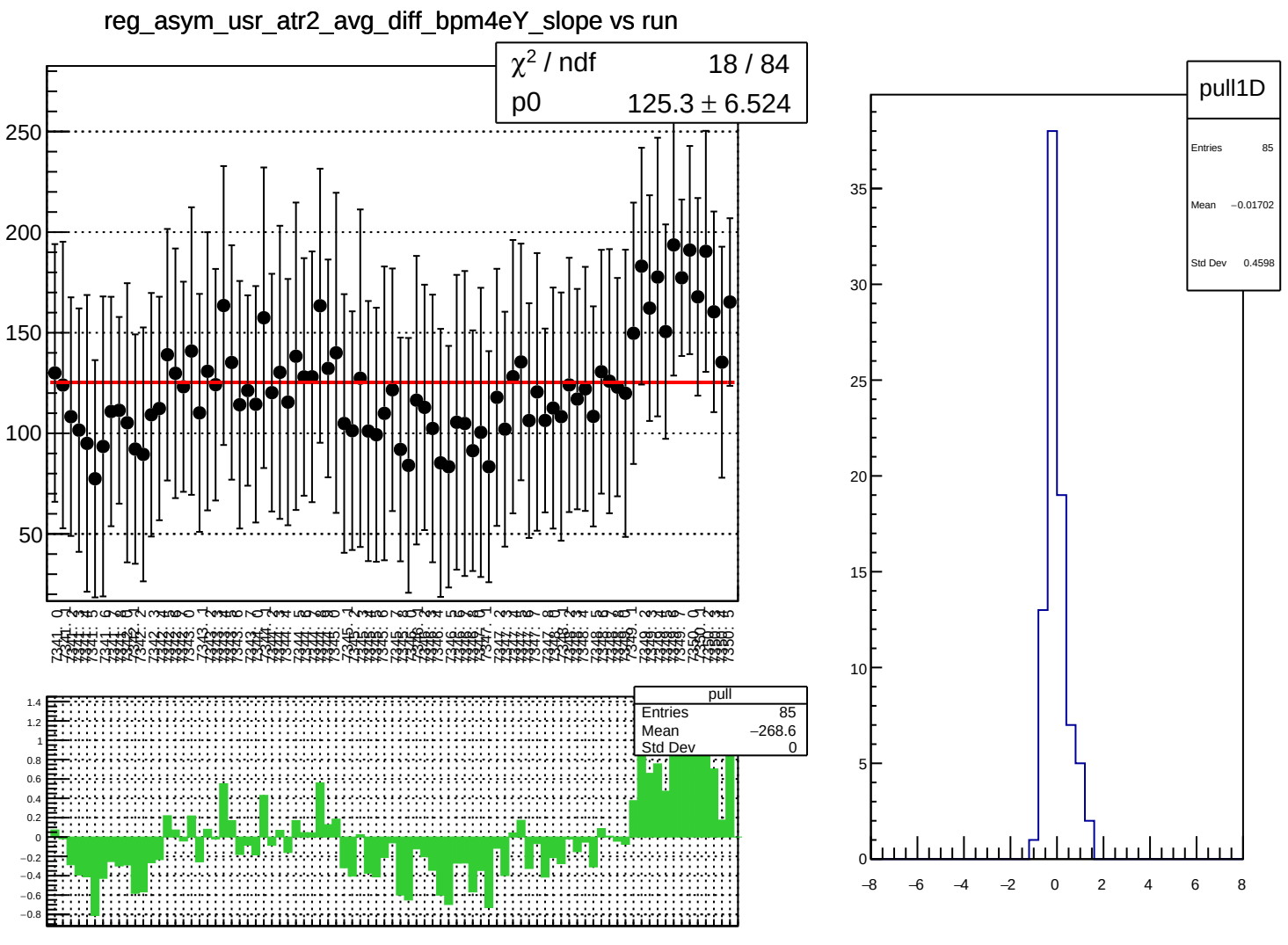

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 75.39 / 84
p0 −10.98 ± 0.05657
pull
Entries 85
Mean −106.9
Std Dev 0
pull1D
Entries 85
Mean −0.01894
Std Dev 0.9416

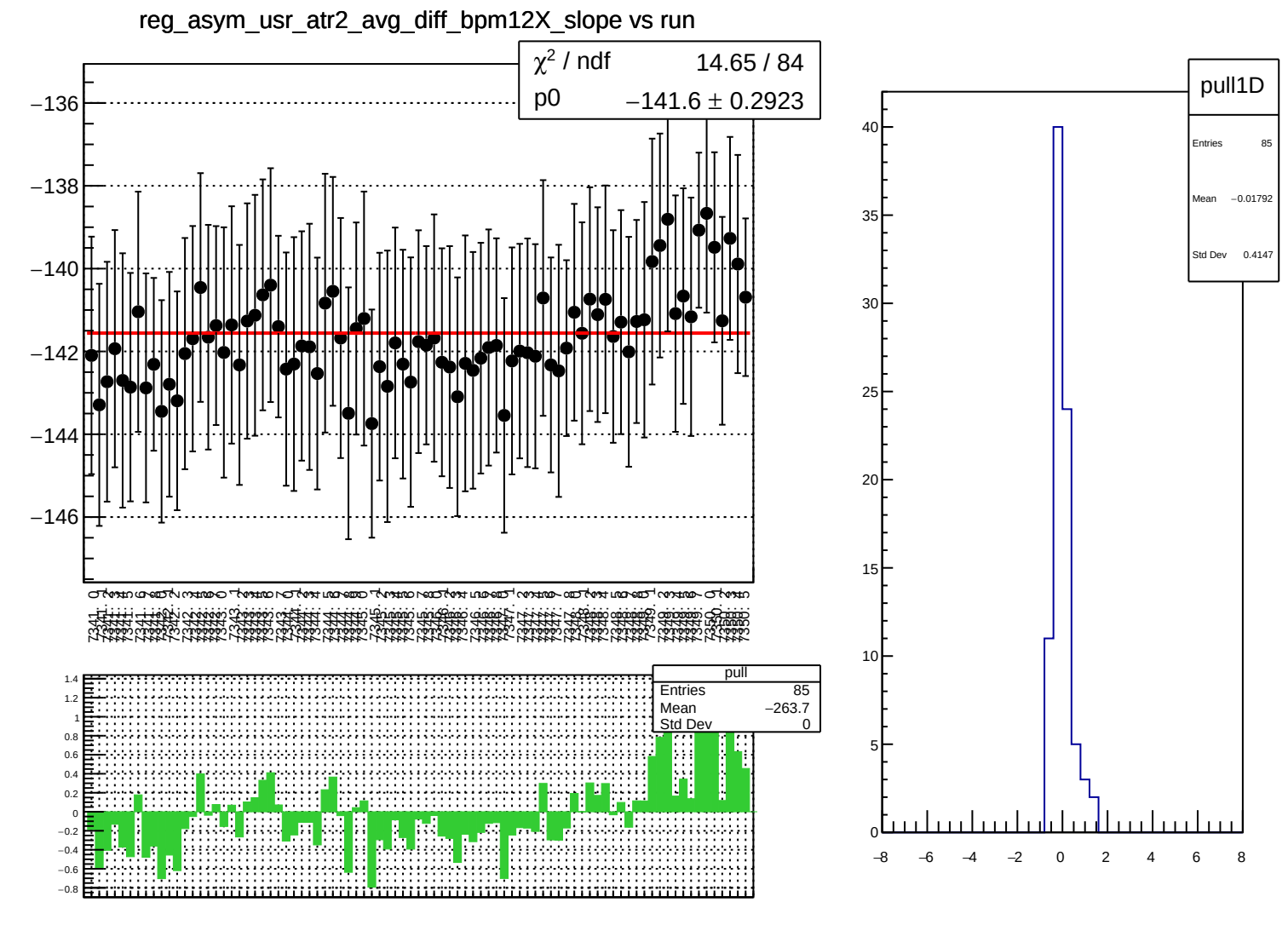

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 64.88 / 84
p0 −161 ± 6.69
pull
Entries 85
Mean −15.37
Std Dev 0
pull1D
Entries 85
Mean −0.1525
Std Dev 0.8603

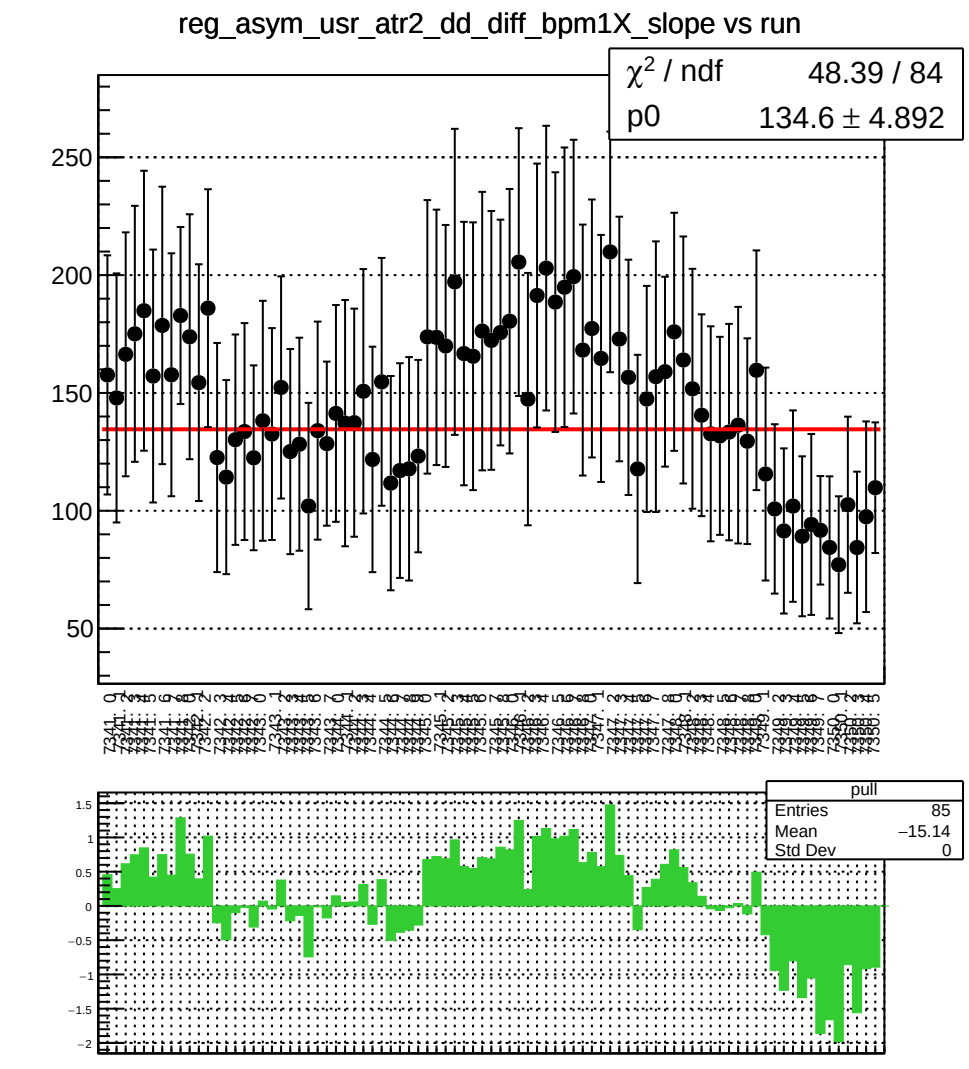

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.26 / 84
p0 −46.61 ± 5.98
pull
Entries 85
Mean −506.1
Std Dev 0

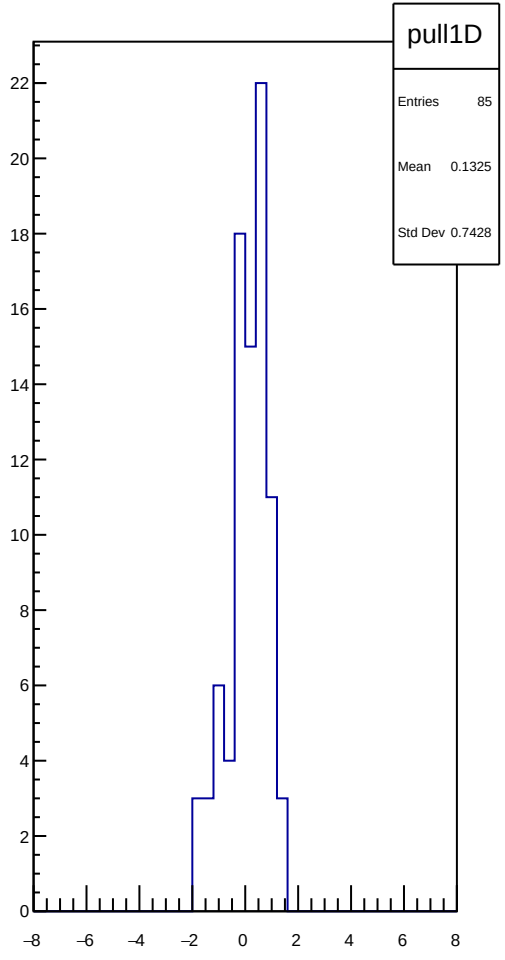

pull1D
Entries 85
Mean 0.009401
Std Dev 0.4635

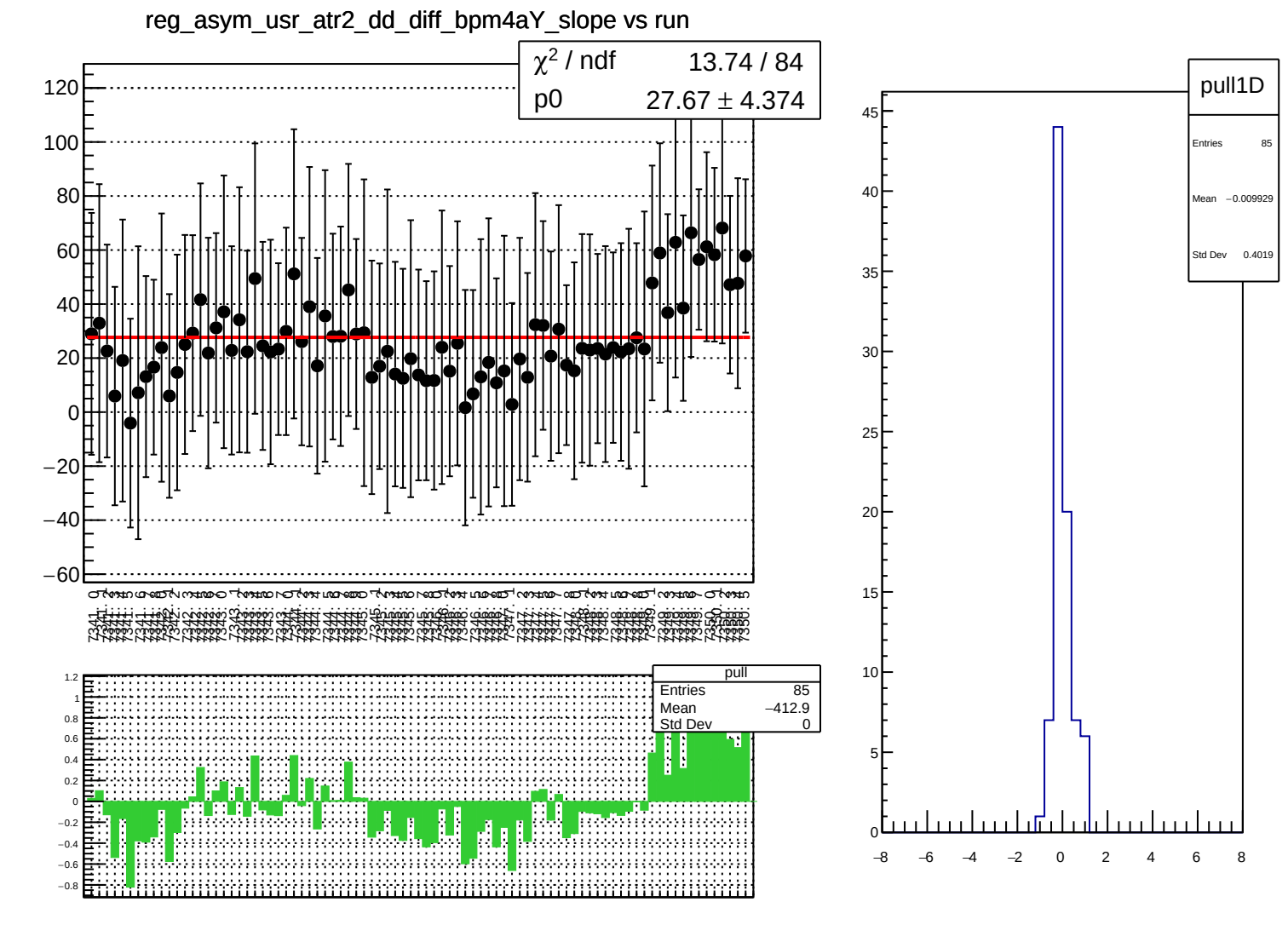

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.37 / 84
p0 237 ± 6.581
pull
Entries 85
Mean −13.24
Std Dev 0
pull1D
Entries 85
Mean 0.1556
Std Dev 0.8562

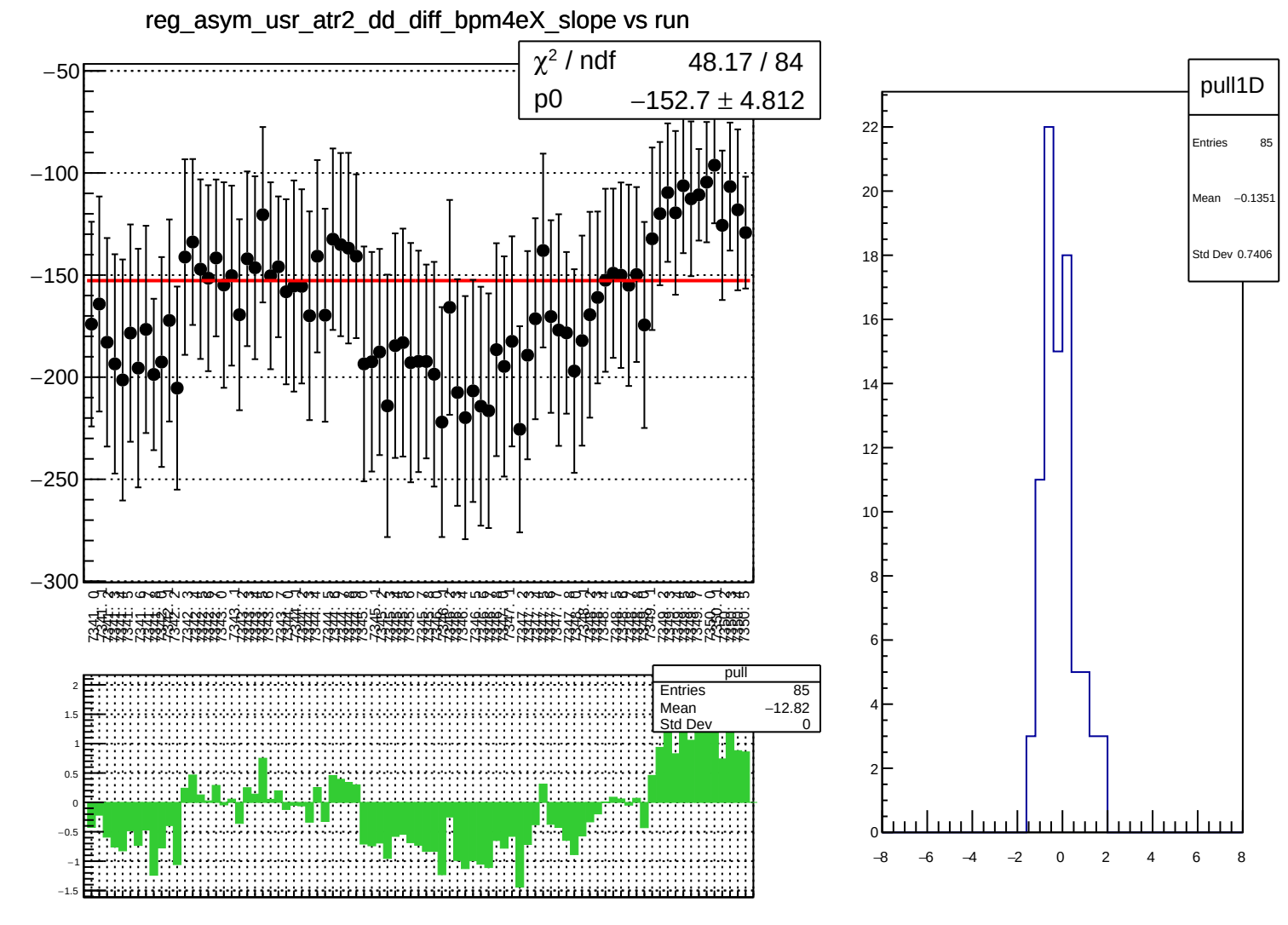

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 18 / 84
p0 125.3 ± 6.524
250
200
150
100
50
pull
Entries 85
Mean −268.6
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 85
Mean −0.01702
Std Dev 0.4598
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

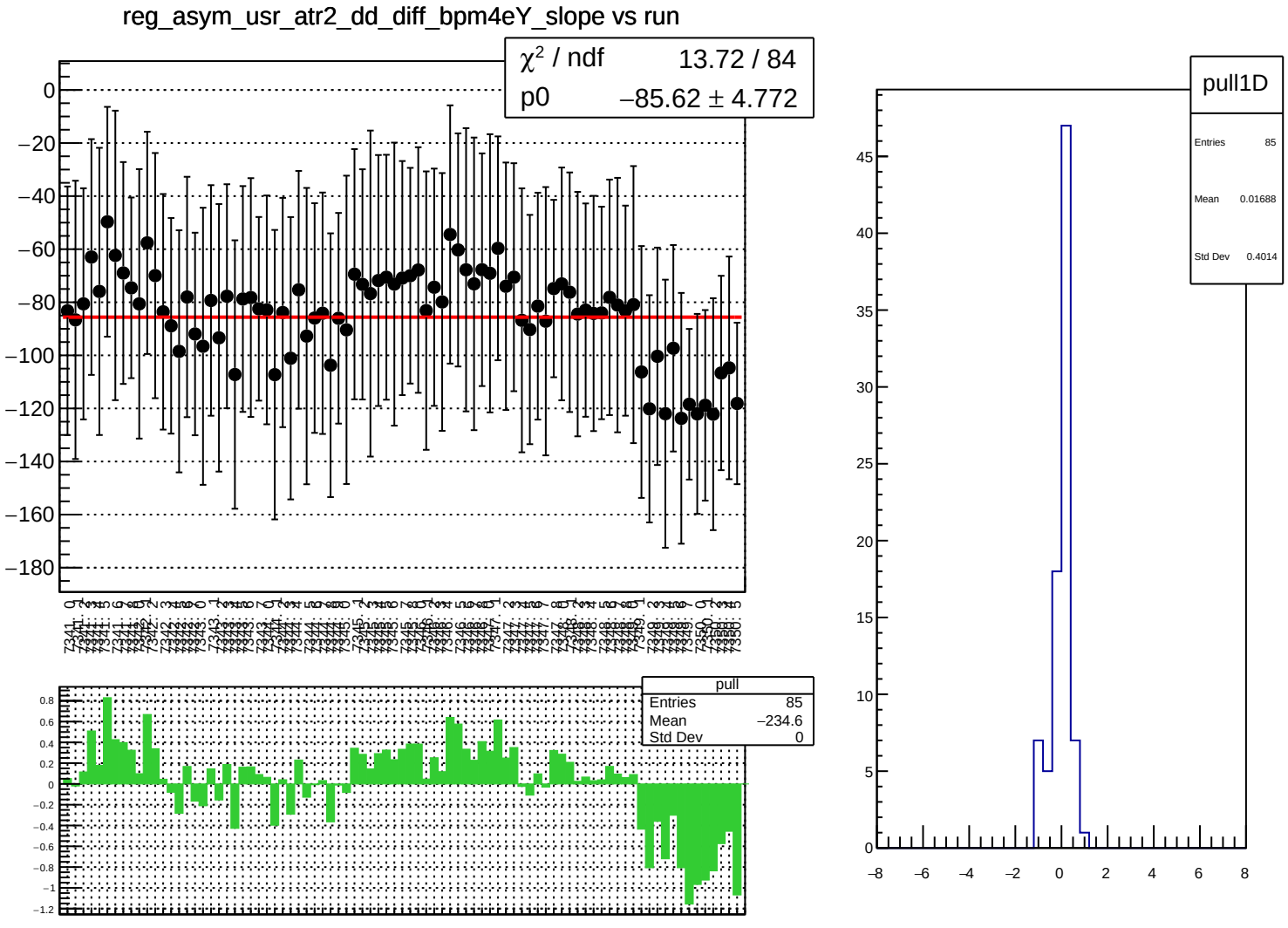

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 14.65 / 84
p0 −141.6 ± 0.2923
−136
−138
−140
−142
−144
−146
pull
Entries 85
Mean −263.7
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 85
Mean −0.01792
Std Dev 0.4147
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

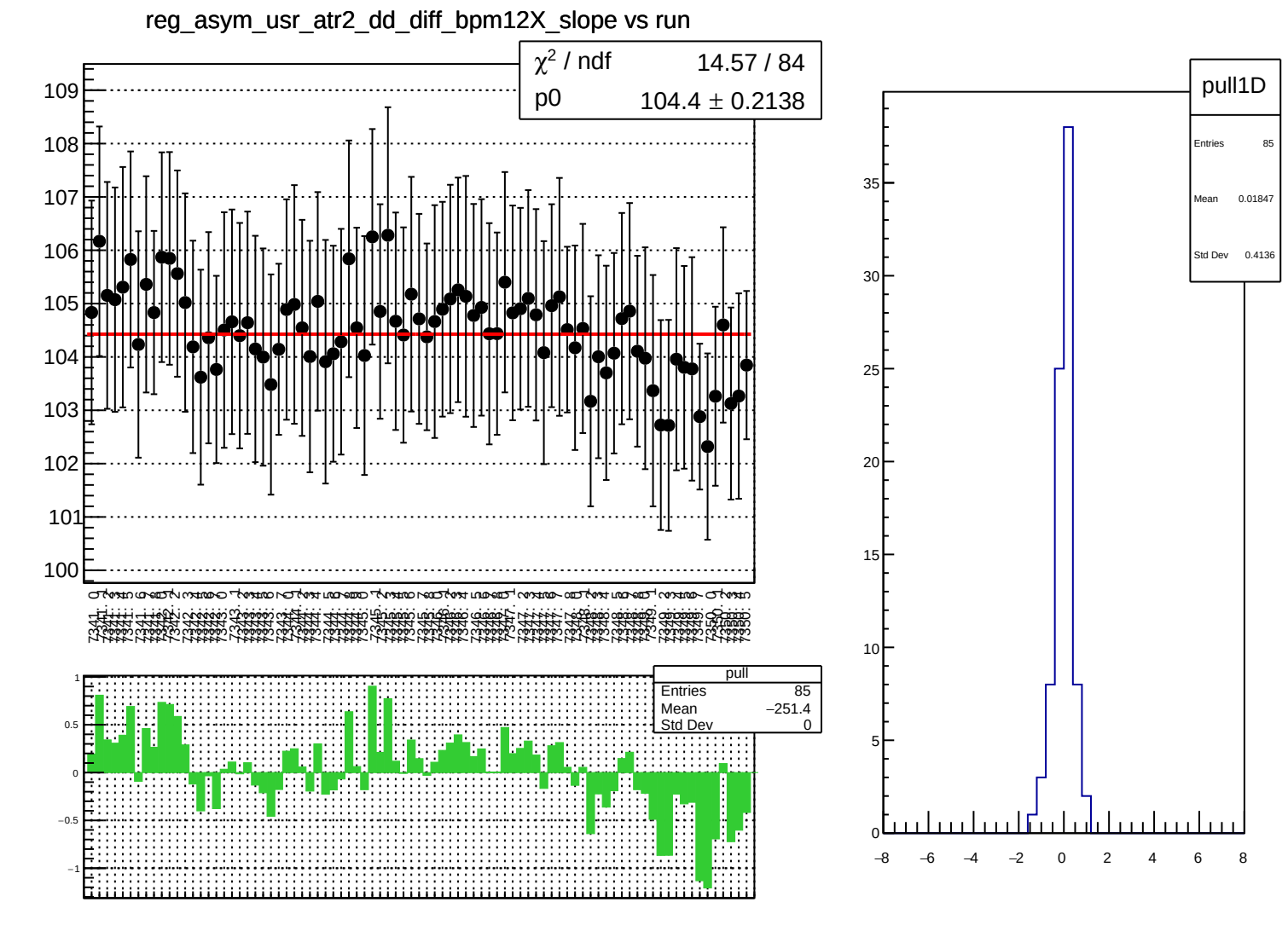

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 48.39 / 84
p0 134.6 ± 4.892
250
200
150
100
50
pull
Entries 85
Mean −15.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

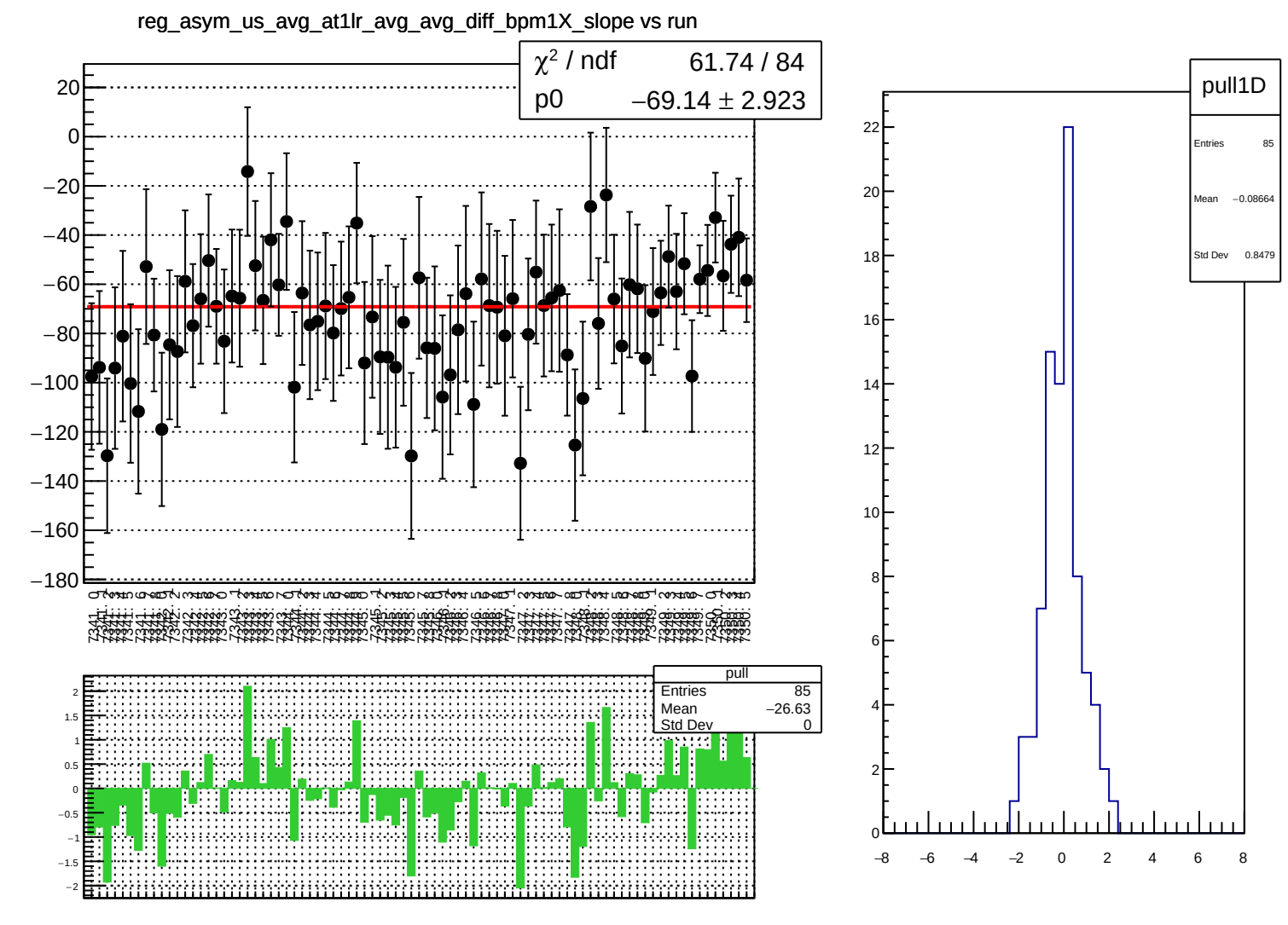

pull1D
Entries 85
Mean 0.1325
Std Dev 0.7428
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

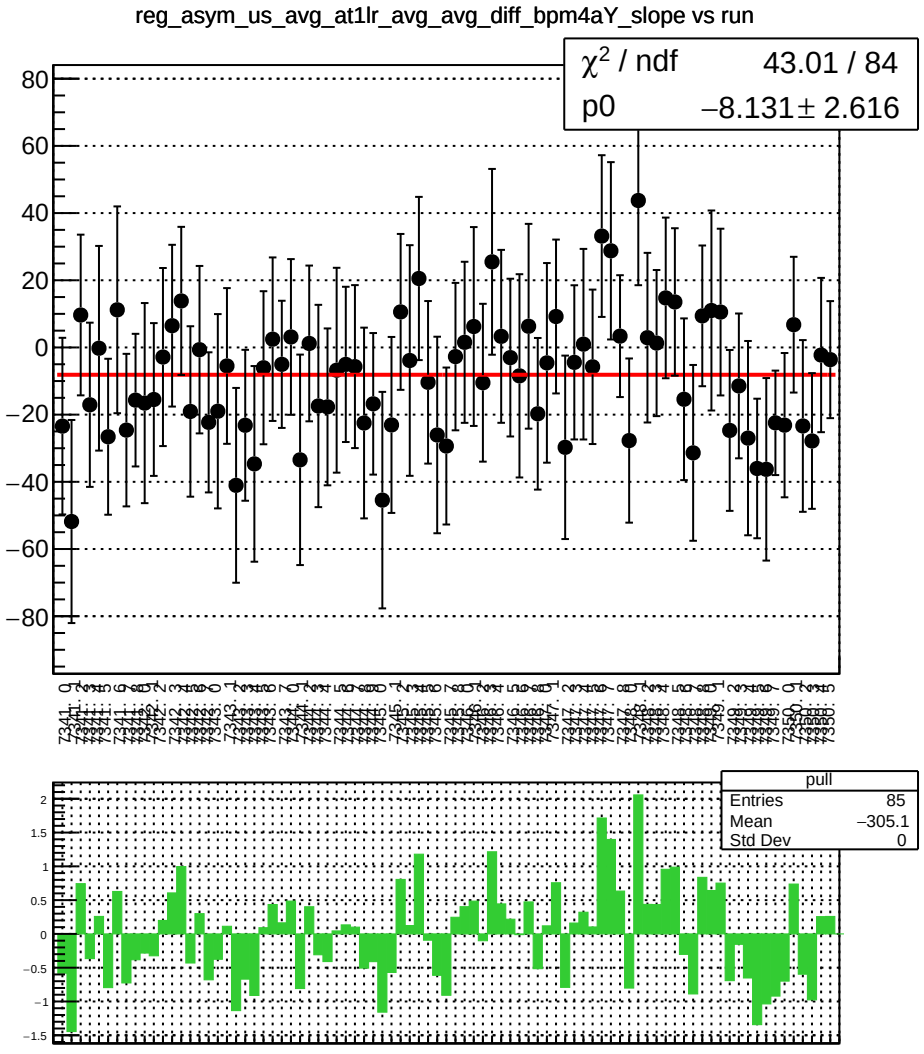

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.74 / 84
p0 27.67 ± 4.374
pull
Entries 85
Mean −412.9
Std Dev 0
pull1D
Entries 85
Mean −0.009929
Std Dev 0.4019

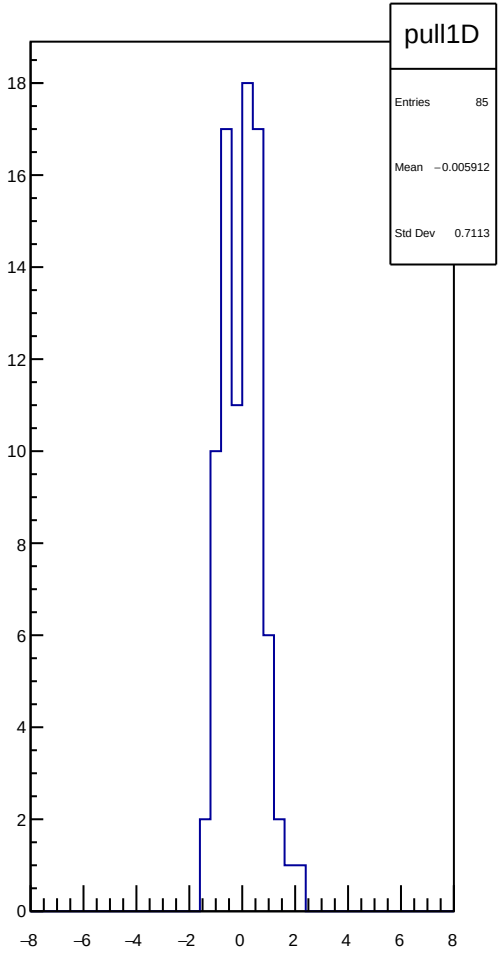

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.17 / 84
p0 −152.7 ± 4.812
pull
Entries 85
Mean −12.82
Std Dev 0
pull1D
Entries 85
Mean −0.1351
Std Dev 0.7406

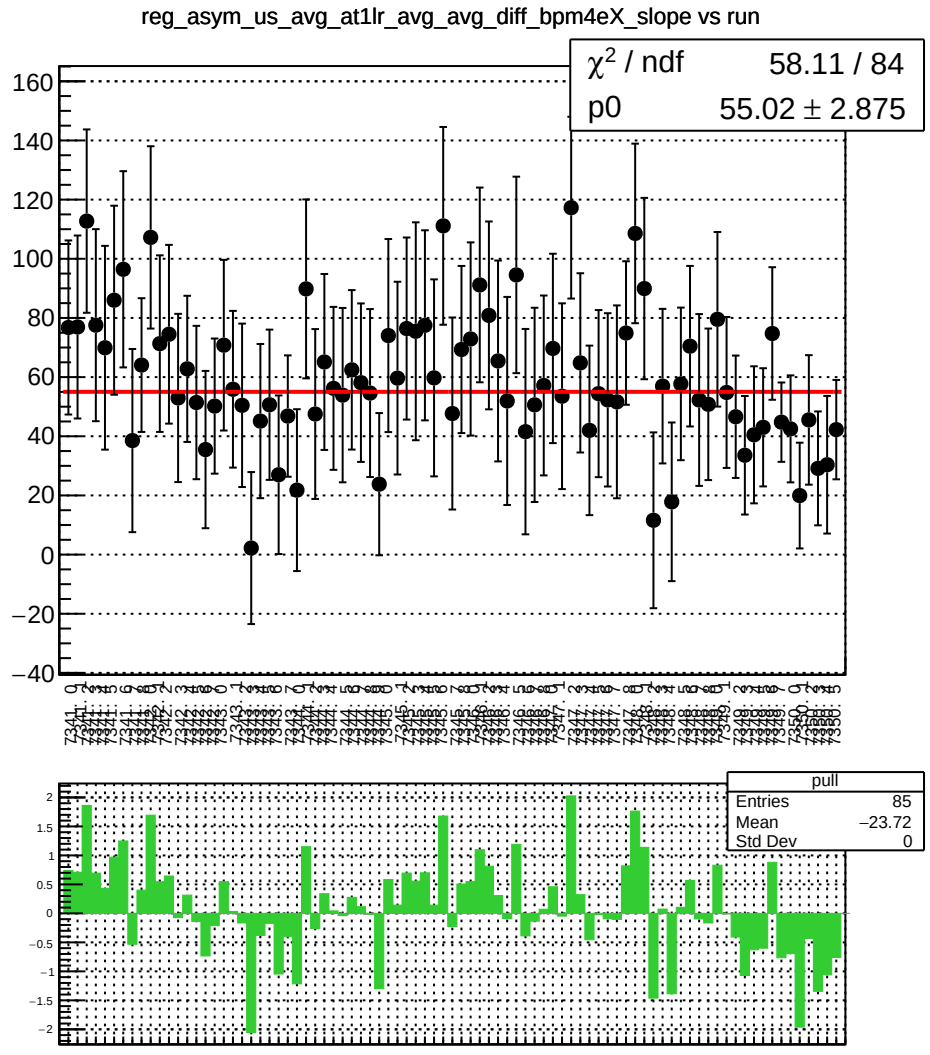

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.72 / 84
p0 −85.62 ± 4.772
pull
Entries 85
Mean −234.6
Std Dev 0
pull1D
Entries 85
Mean 0.01688
Std Dev 0.4014

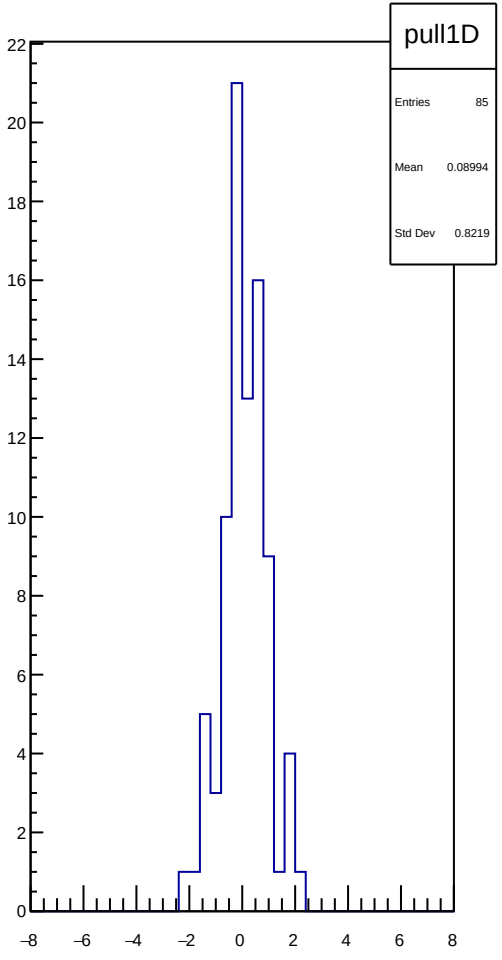

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 14.57 / 84
p0 104.4 ± 0.2138
pull
Entries 85
Mean −251.4
Std Dev 0
pull1D
Entries 85
Mean 0.01847
Std Dev 0.4136

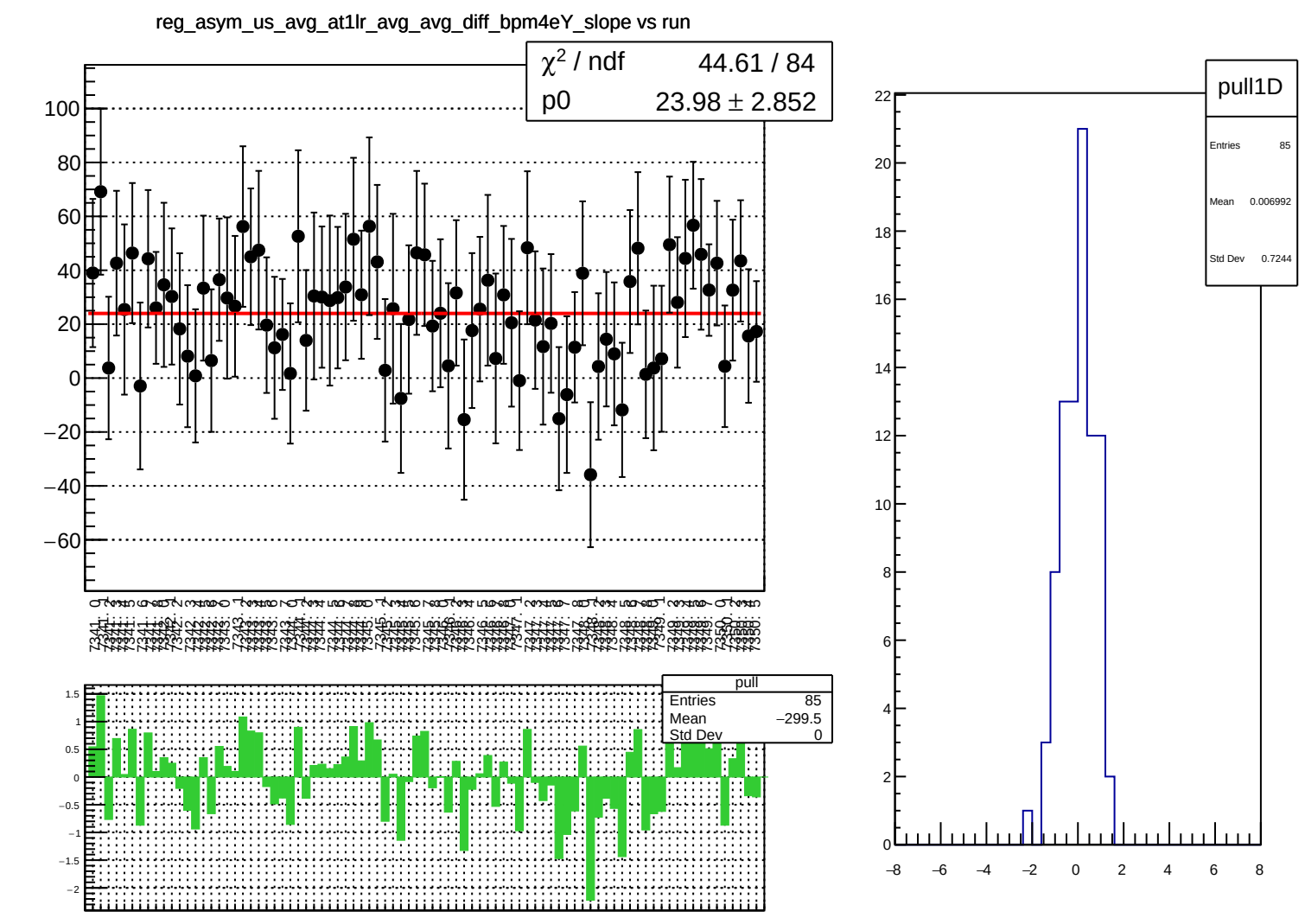

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 61.74 / 84
p0 −69.14 ± 2.923
pull
Entries 85
Mean −26.63
Std Dev 0
pull1D
Entries 85
Mean −0.08664
Std Dev 0.8479

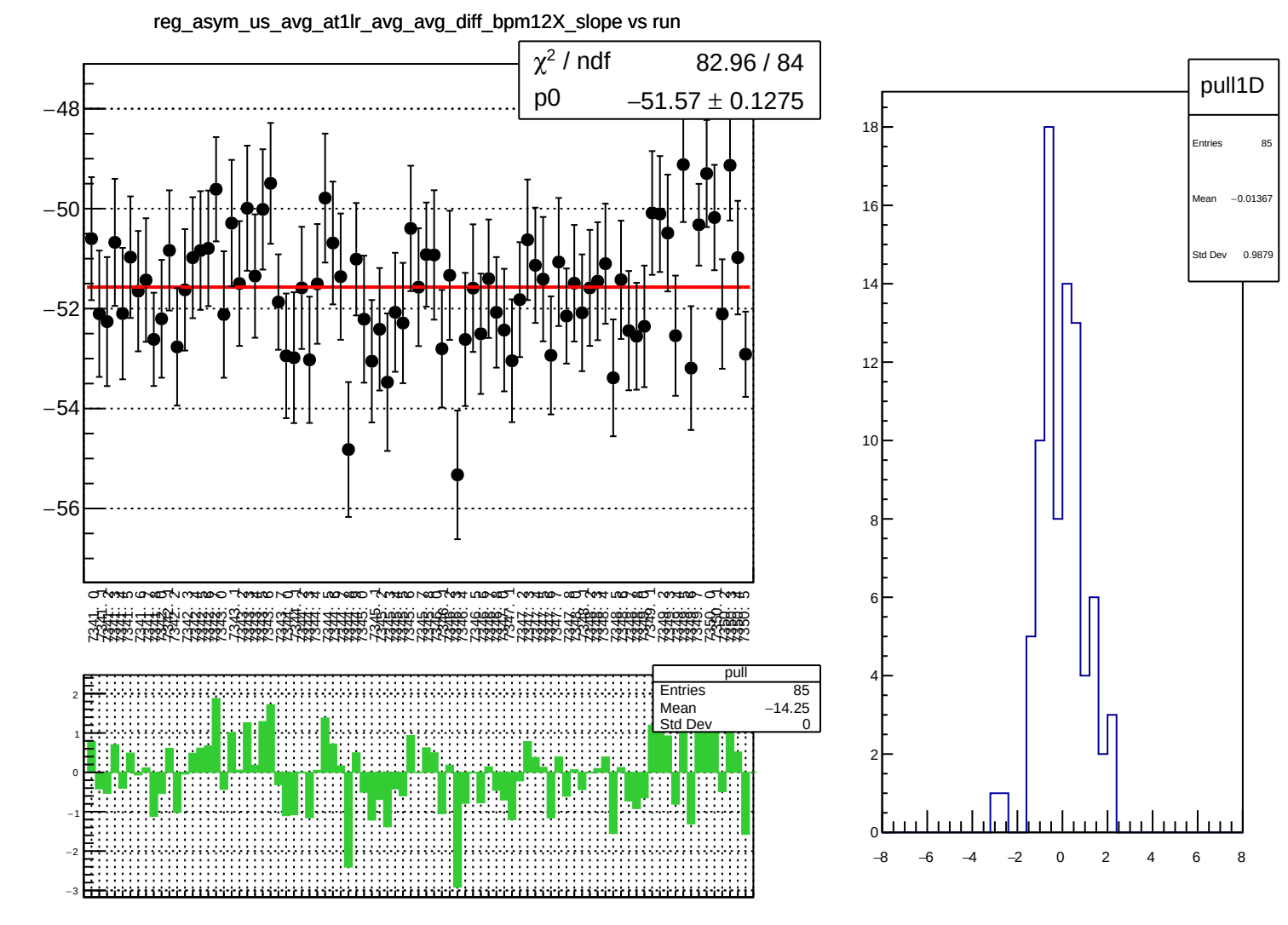

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.01 / 84
p0 −8.131 ± 2.616
pull
Entries 85
Mean −305.1
Std Dev 0

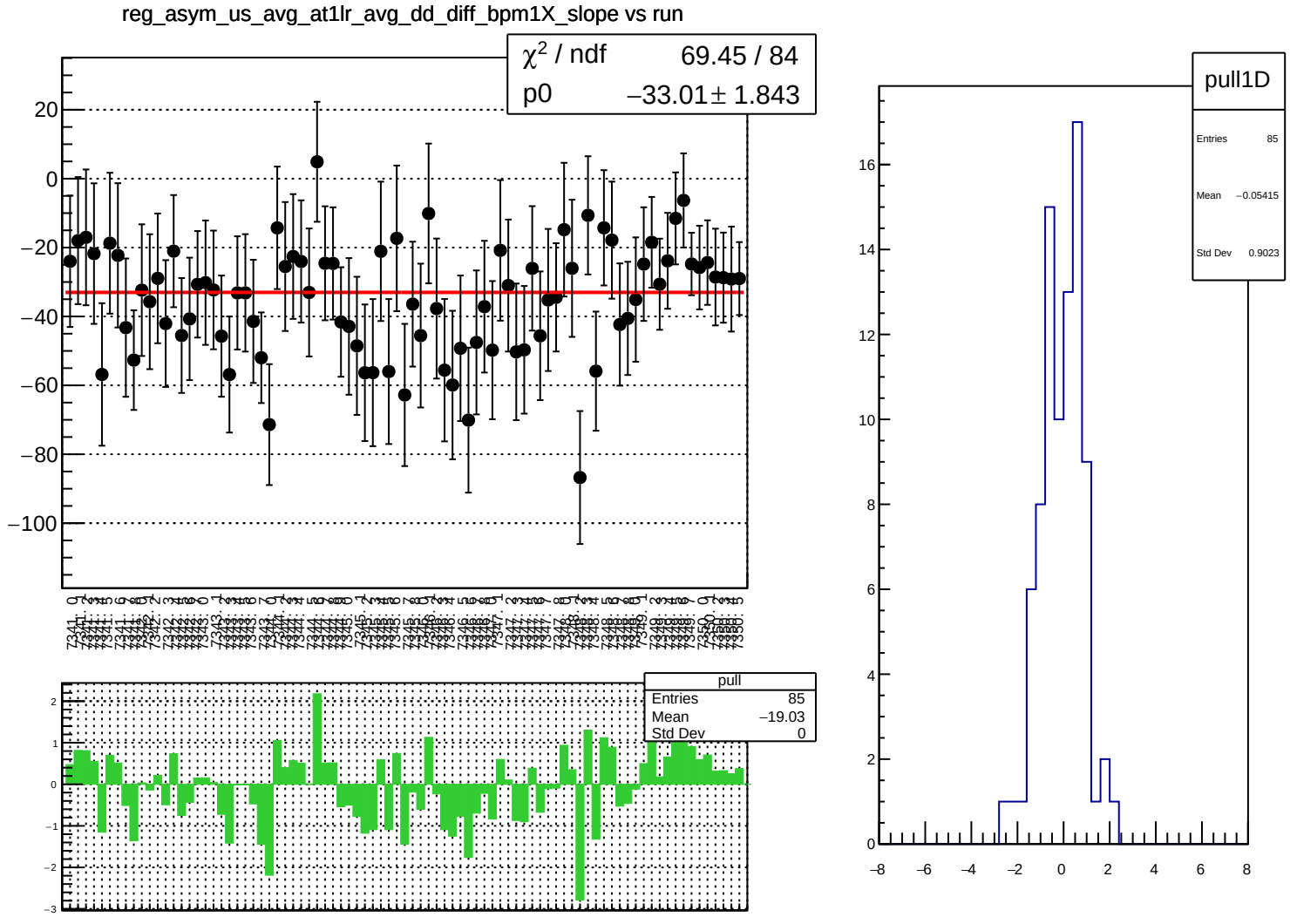

pull1D
Entries 85
Mean −0.005912
Std Dev 0.7113

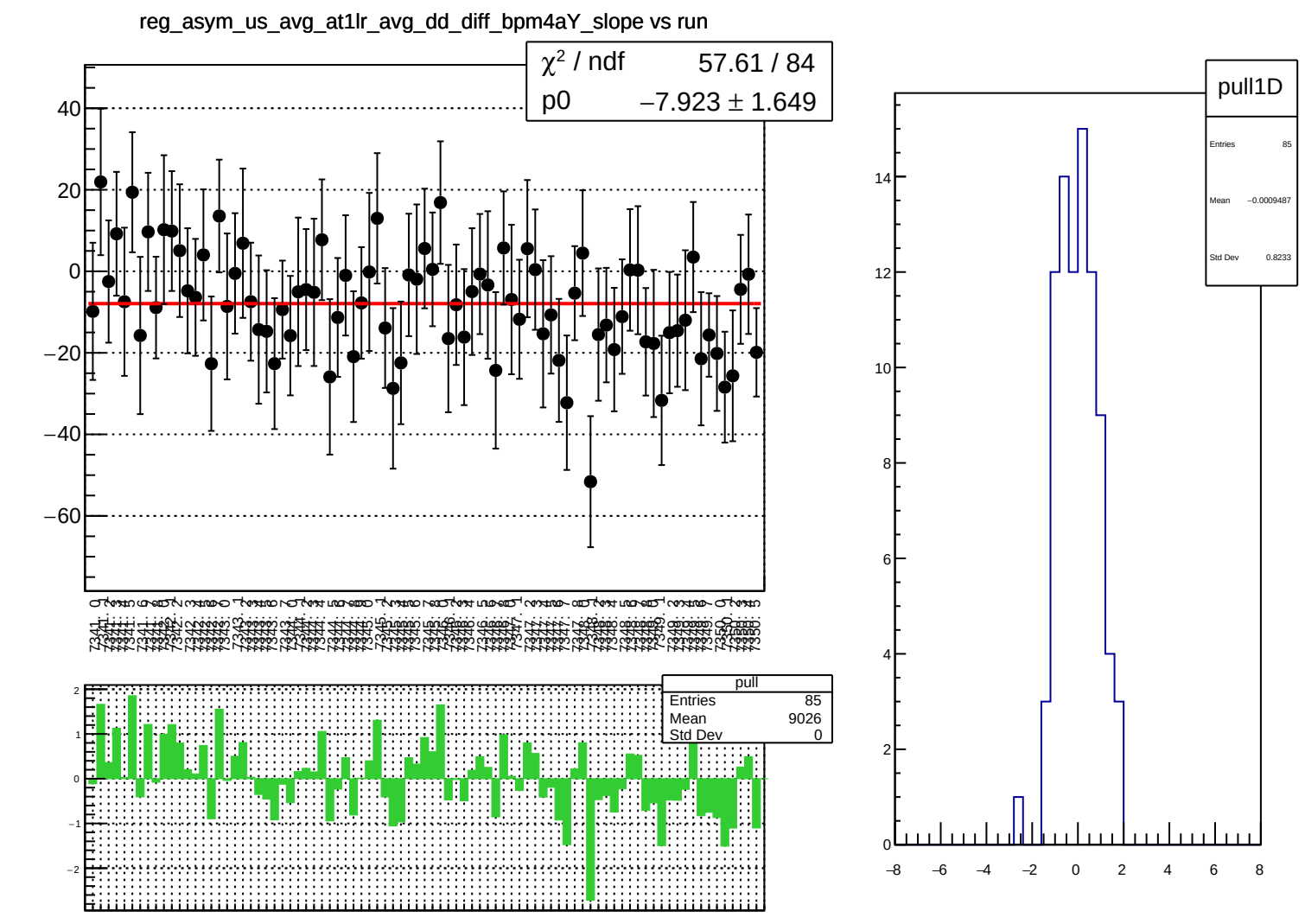

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.11 / 84
p0 55.02 ± 2.875
pull
Entries 85
Mean −23.72
Std Dev 0

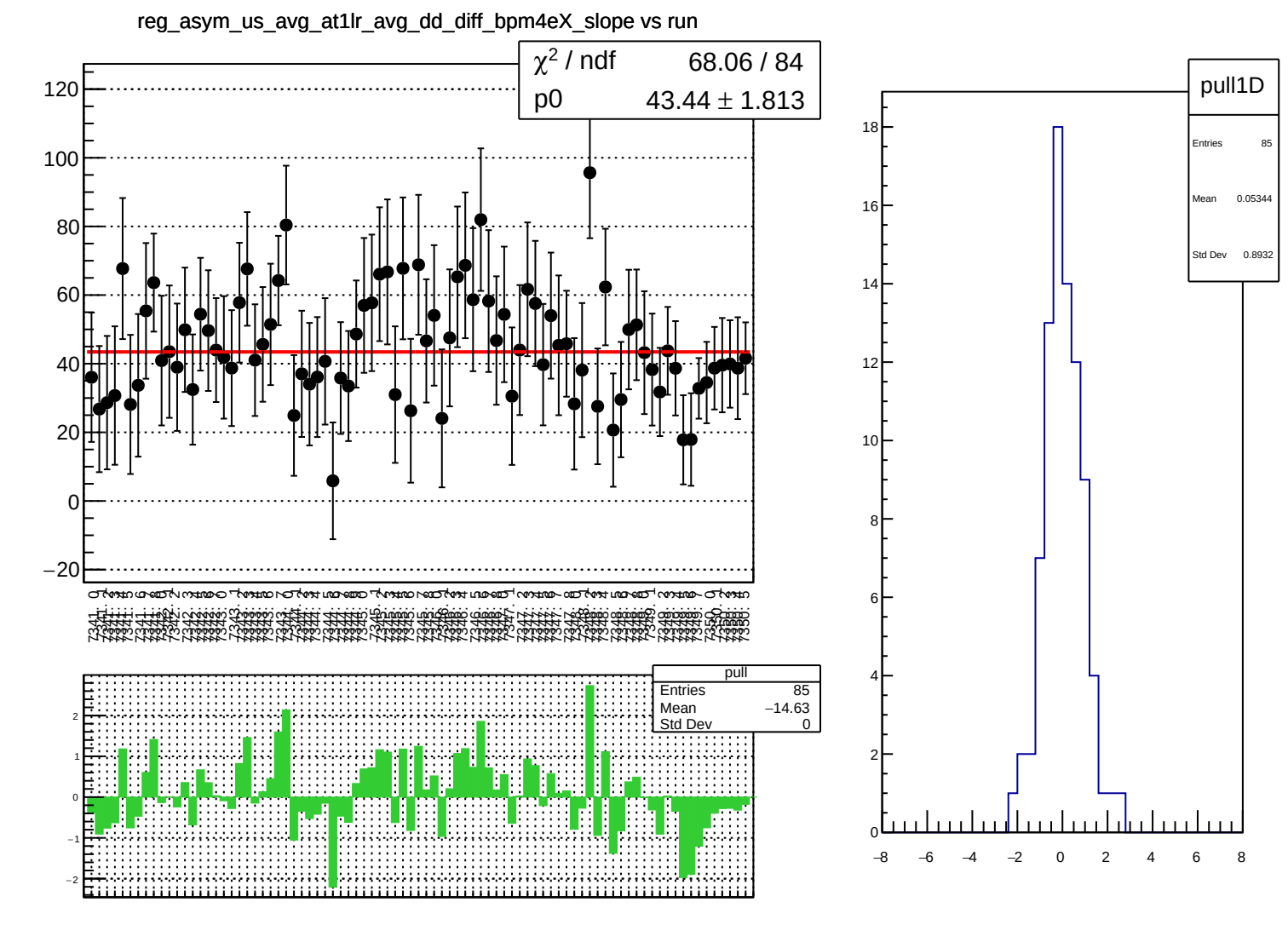

pull1D
Entries 85
Mean 0.08994
Std Dev 0.8219

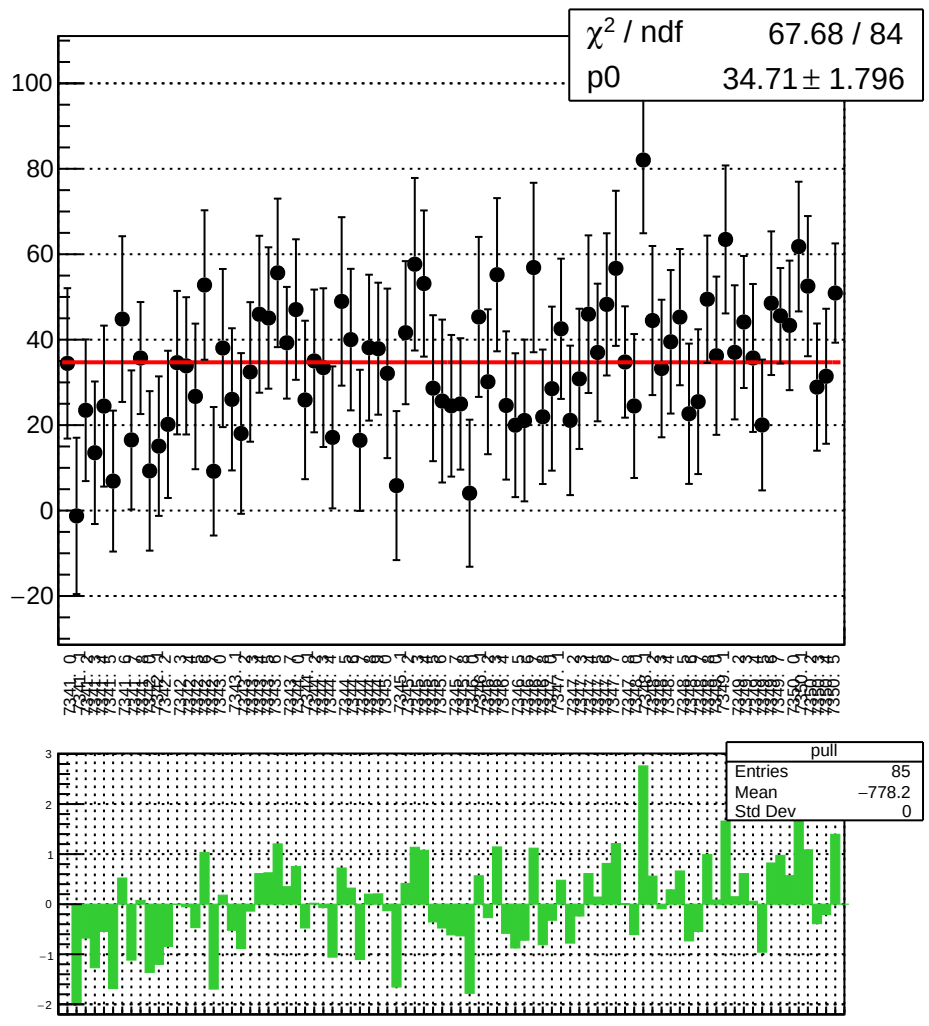

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.61 / 84
p0 23.98 ± 2.852
pull
Entries 85
Mean −299.5
Std Dev 0
pull1D
Entries 85
Mean 0.006992
Std Dev 0.7244

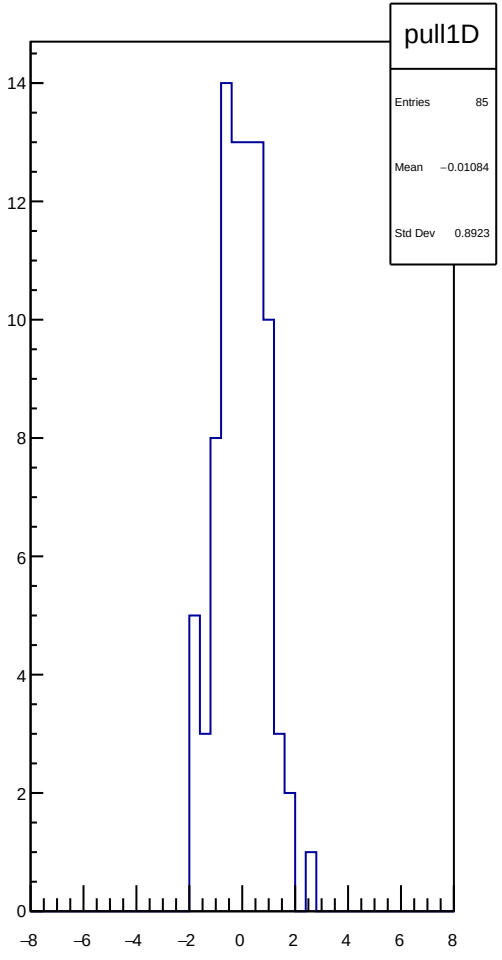

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 82.96 / 84
p0 −51.57 ± 0.1275
pull
Entries 85
Mean −14.25
Std Dev 0
pull1D
Entries 85
Mean −0.01367
Std Dev 0.9879

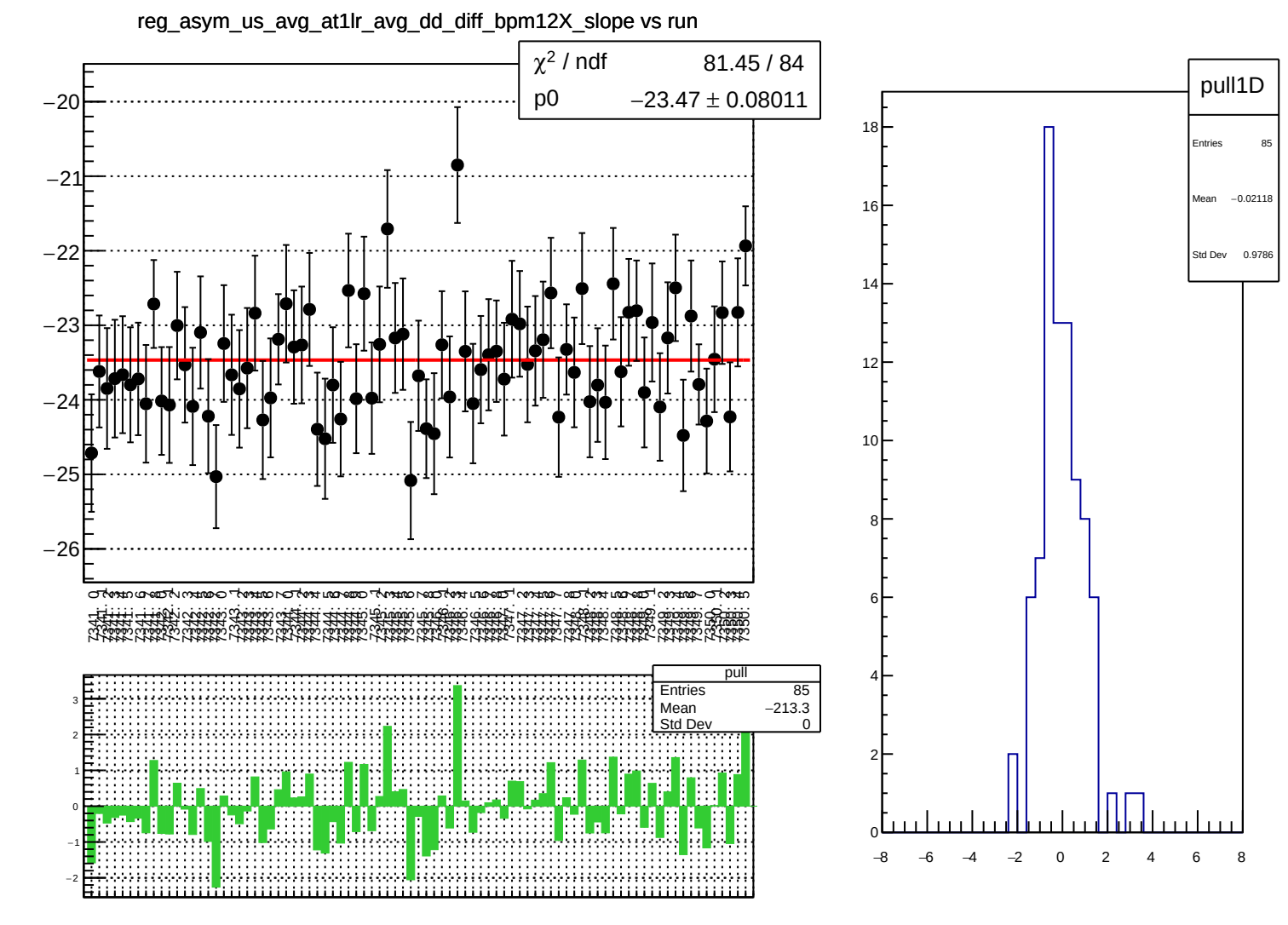

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 69.45 / 84
p0 −33.01 ± 1.843
pull
Entries 85
Mean −19.03
Std Dev 0
pull1D
Entries 85
Mean −0.05415
Std Dev 0.9023

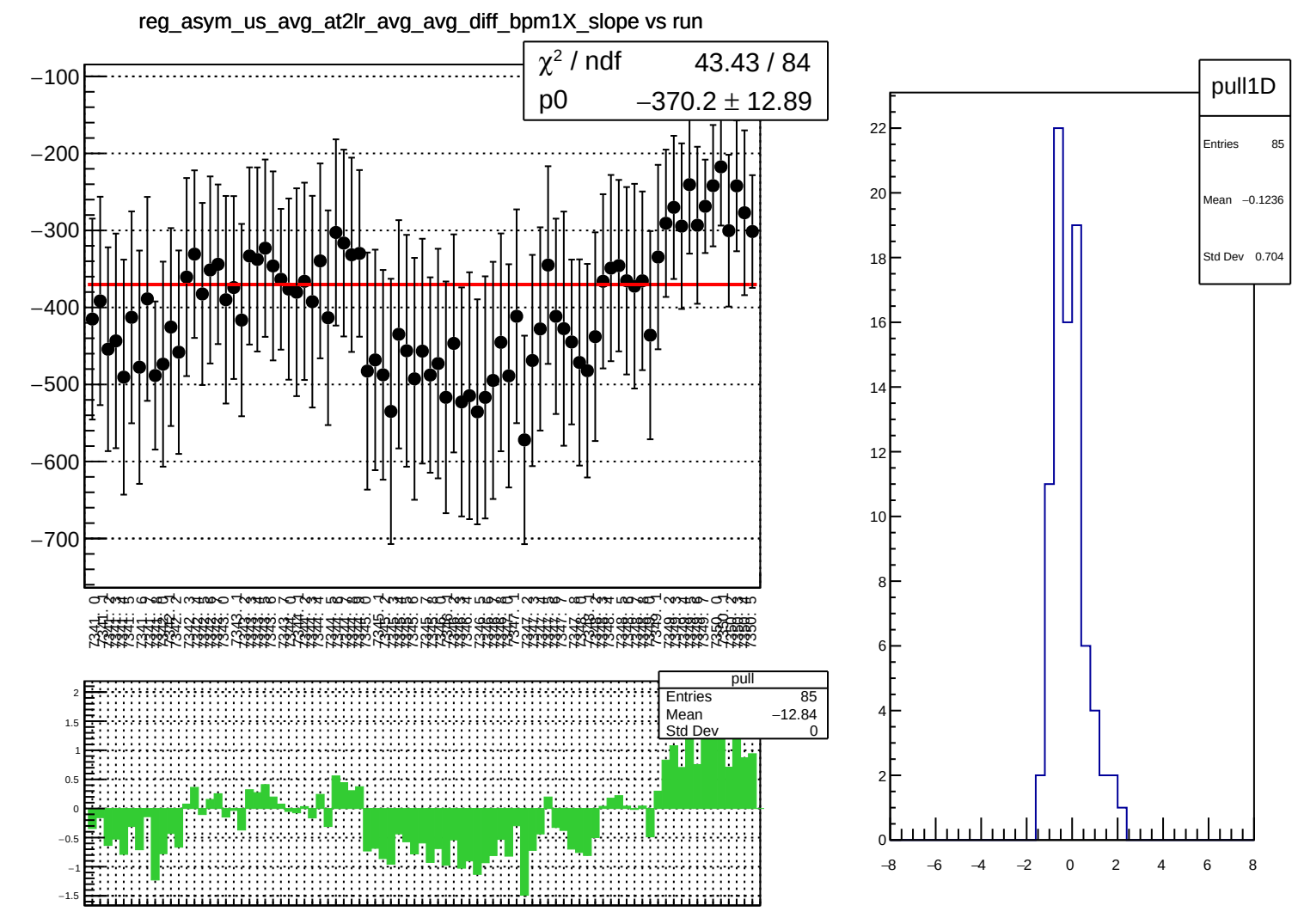

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.61 / 84
p0 −7.923 ± 1.649
pull
Entries 85
Mean 9026
Std Dev 0
pull1D
Entries 85
Mean −0.0009487
Std Dev 0.8233

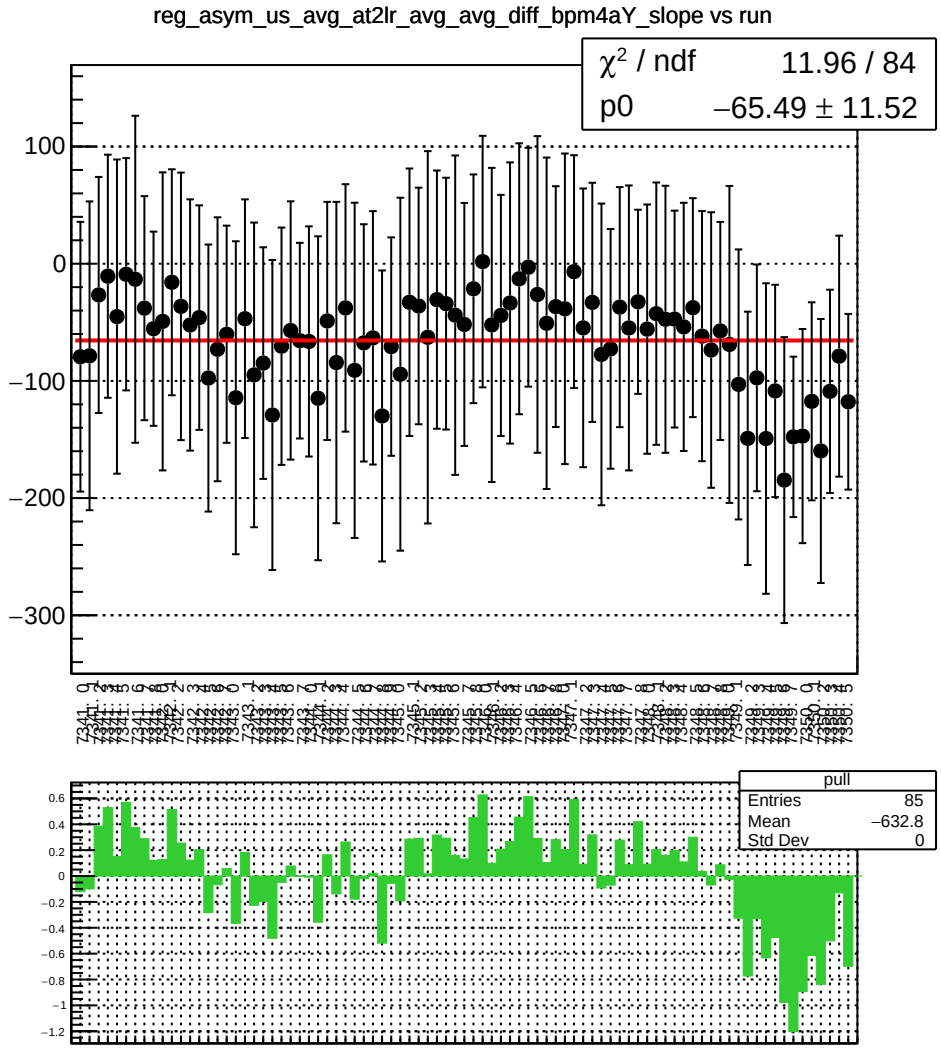

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.06 / 84
p0 43.44 ± 1.813
pull
Entries 85
Mean −14.63
Std Dev 0
pull1D
Entries 85
Mean 0.05344
Std Dev 0.8932

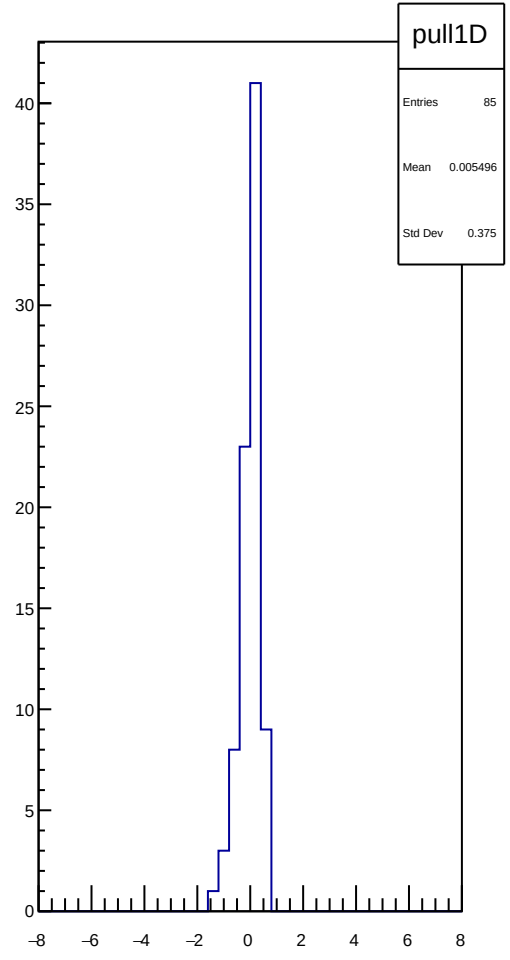

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.68 / 84
p0 34.71 ± 1.796
pull
Entries 85
Mean −778.2
Std Dev 0

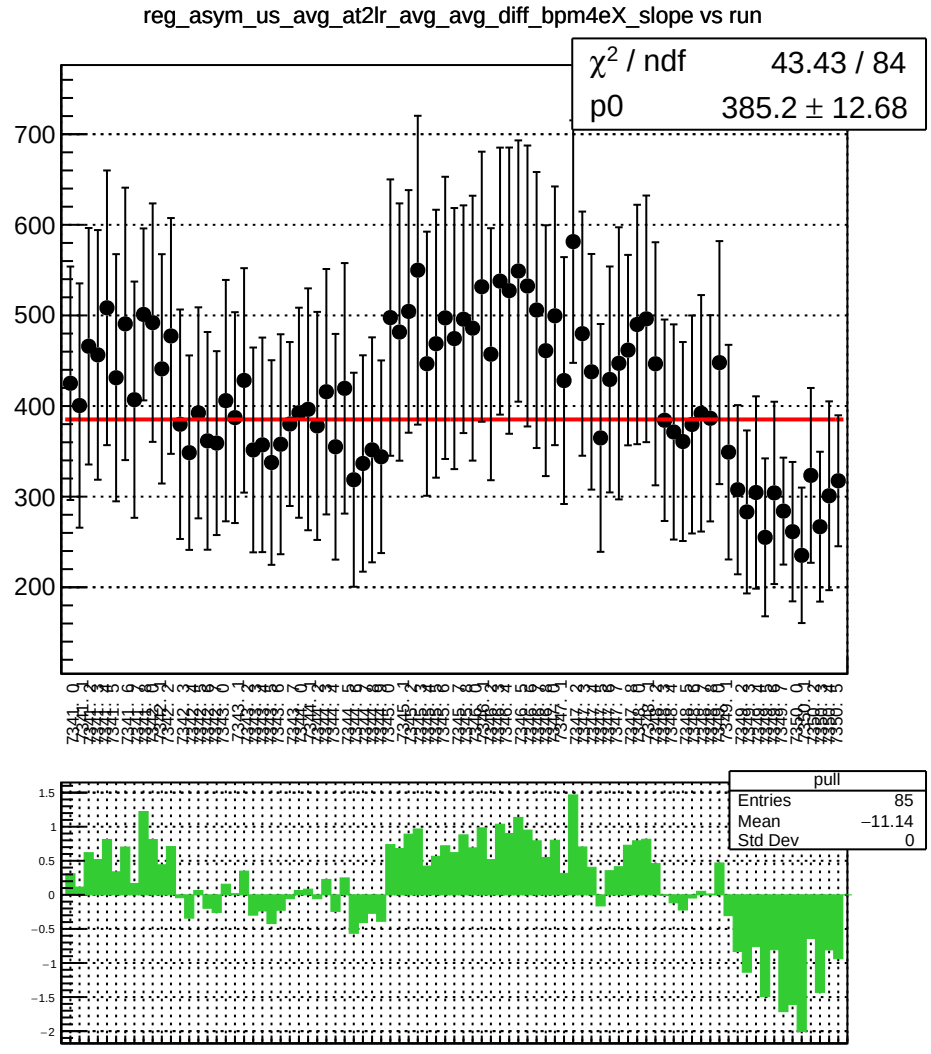

pull1D
Entries 85
Mean −0.01084
Std Dev 0.8923

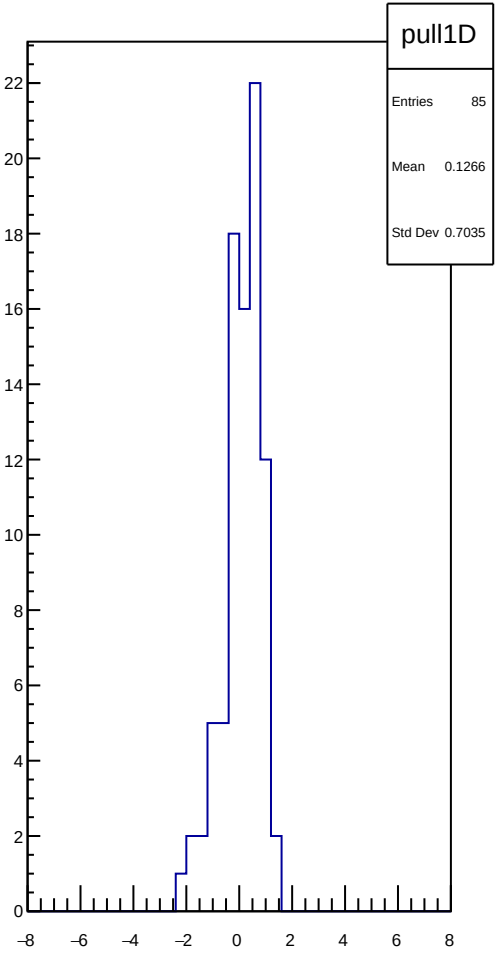

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 81.45 / 84
p0 −23.47 ± 0.08011
pull
Entries 85
Mean −213.3
Std Dev 0
pull1D
Entries 85
Mean −0.02118
Std Dev 0.9786

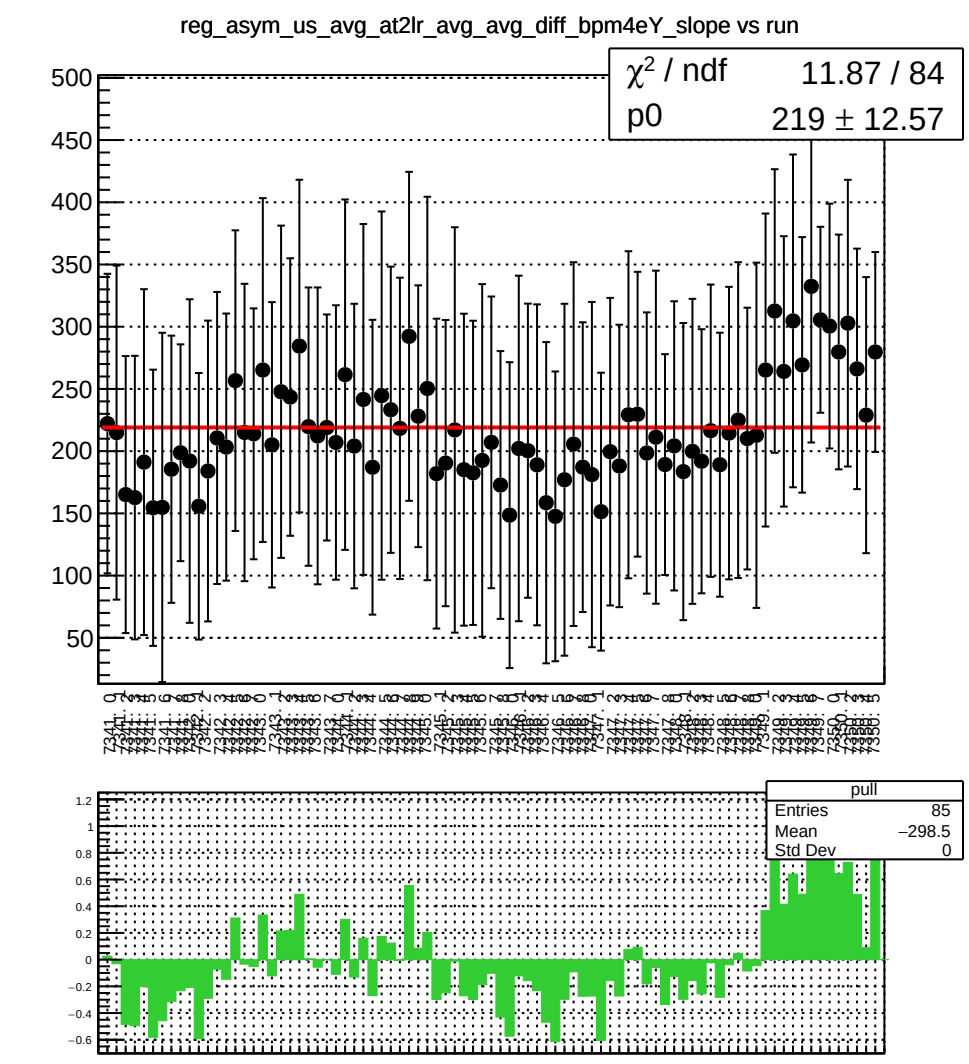

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 43.43 / 84
p0 −370.2 ± 12.89
pull
Entries 85
Mean −12.84
Std Dev 0
pull1D
Entries 85
Mean −0.1236
Std Dev 0.704

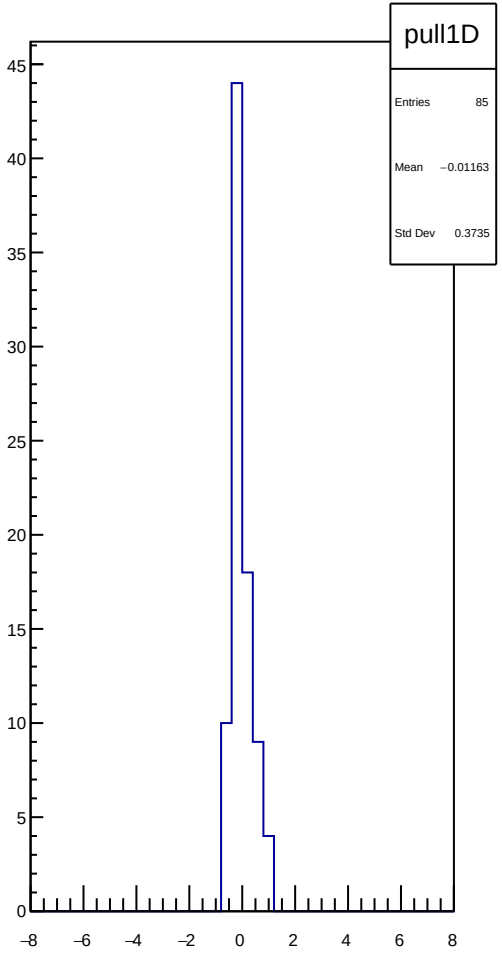

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.96 / 84
p0 −65.49 ± 11.52
pull
Entries 85
Mean −632.8
Std Dev 0

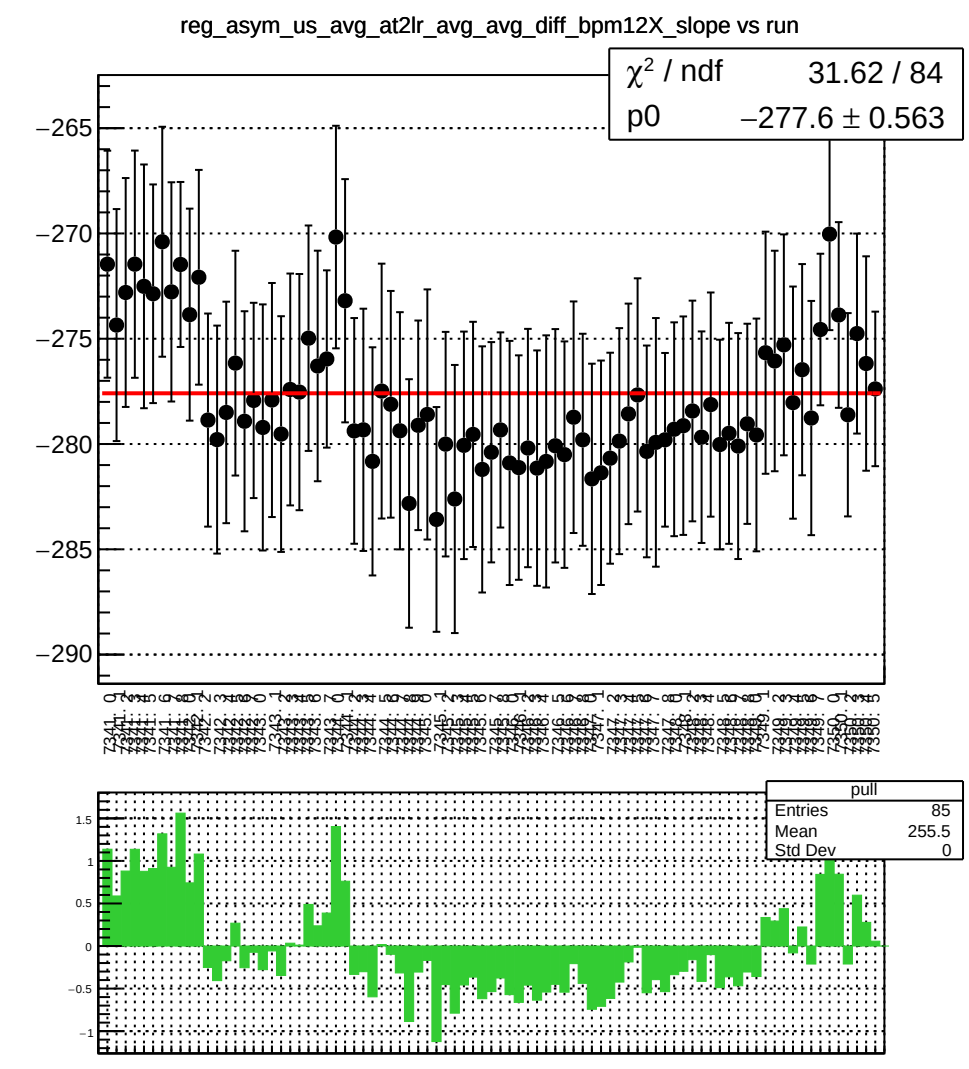

pull1D
Entries 85
Mean 0.005496
Std Dev 0.375

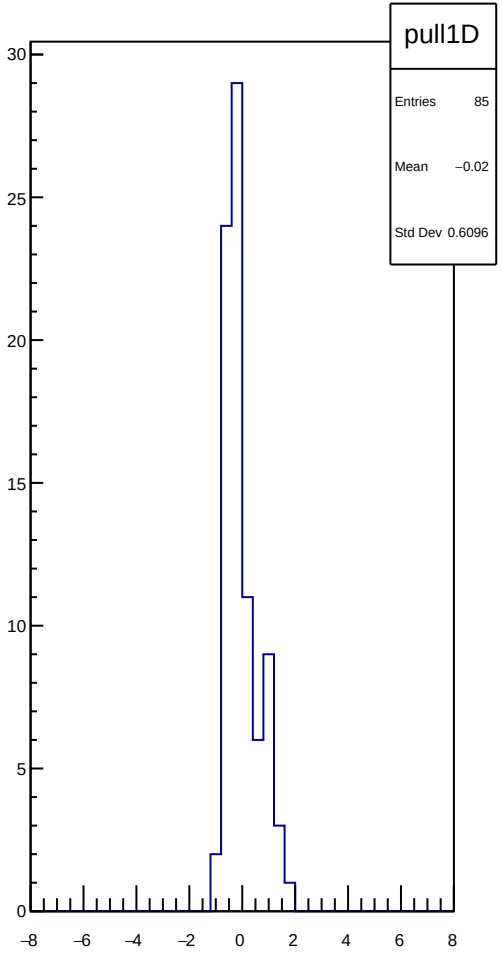

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.43 / 84
p0 385.2 ± 12.68
pull
Entries 85
Mean −11.14
Std Dev 0

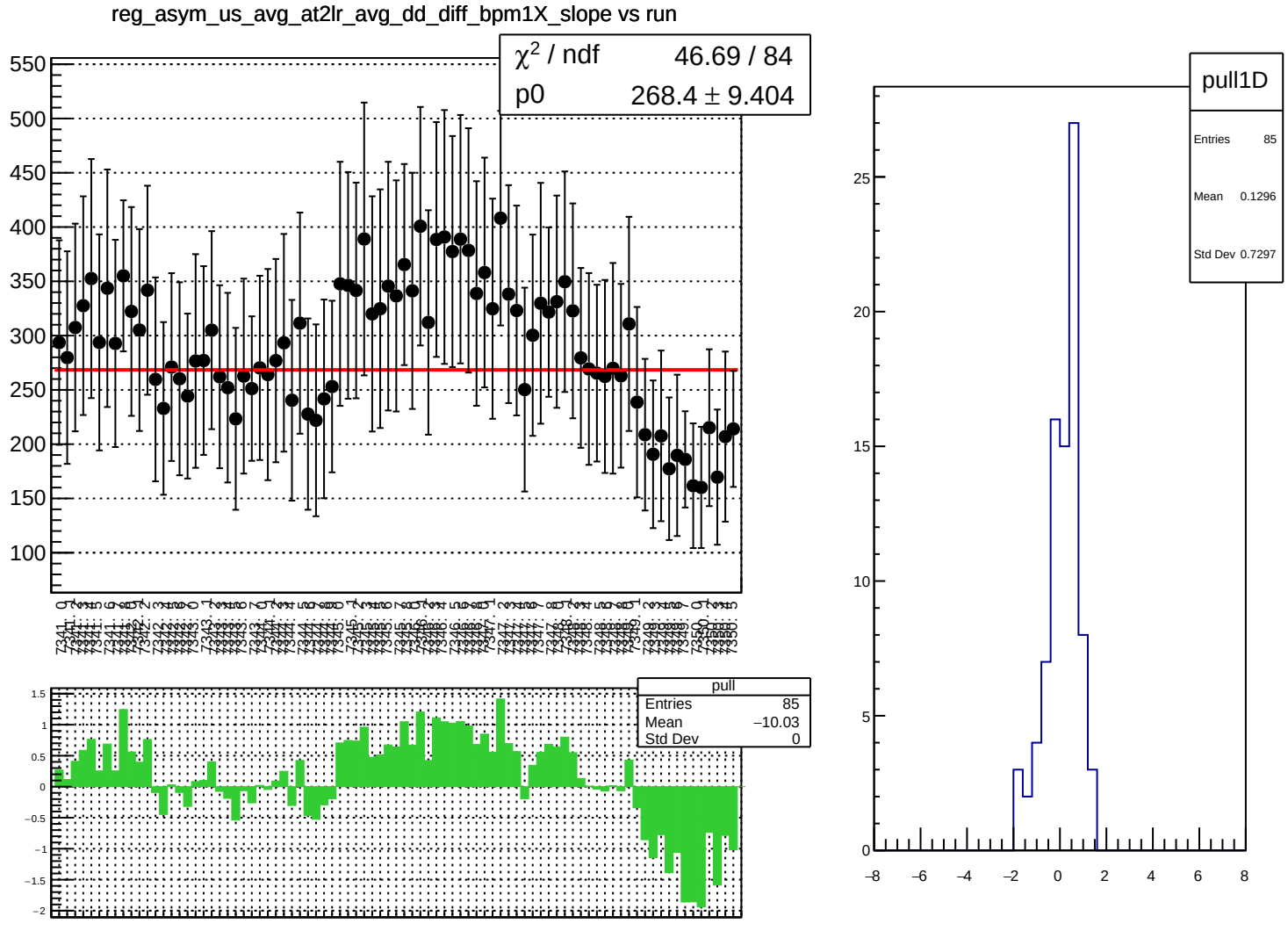

pull1D
Entries 85
Mean 0.1266
Std Dev 0.7035

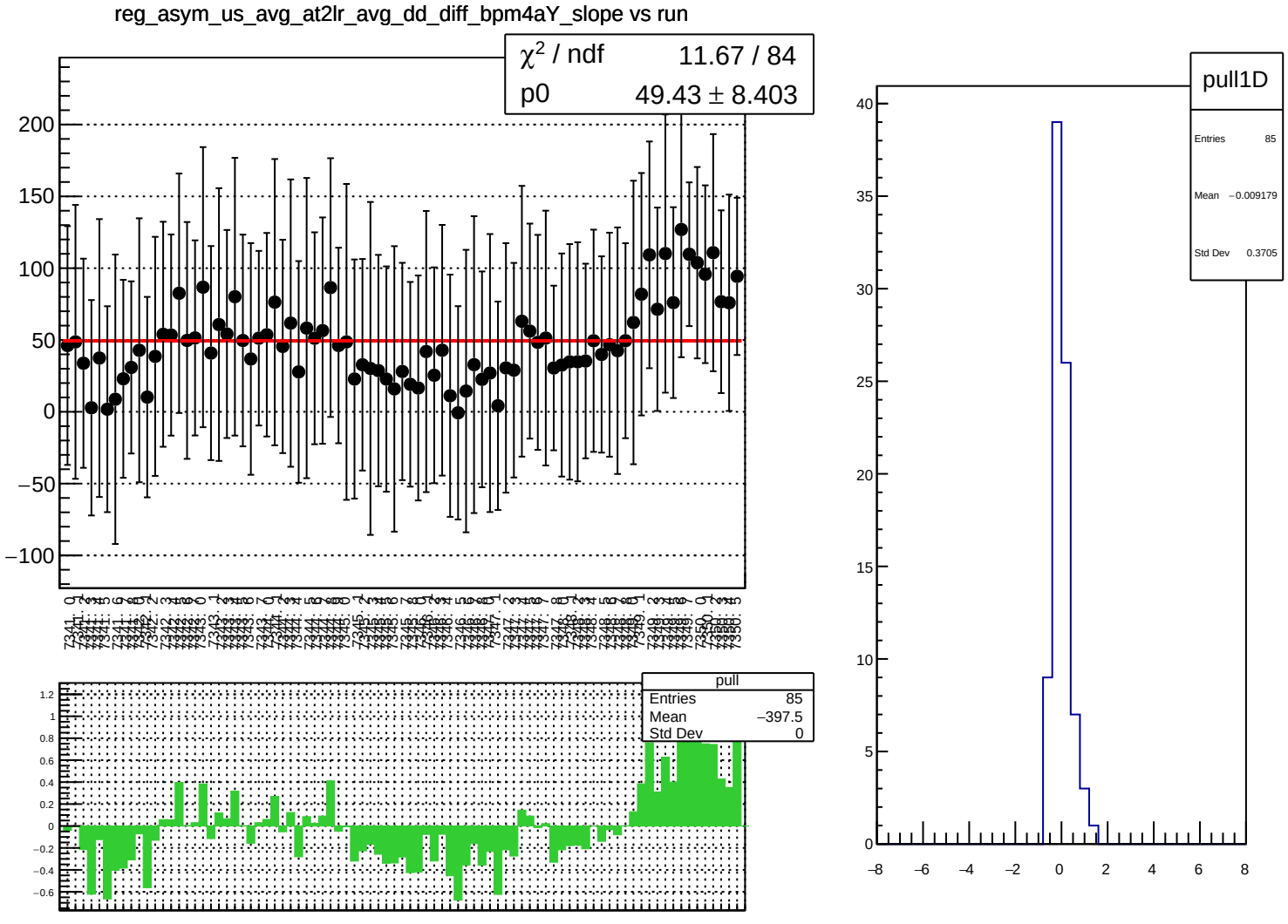

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.87 / 84
p0 219 ± 12.57
pull
Entries 85
Mean −298.5
Std Dev 0

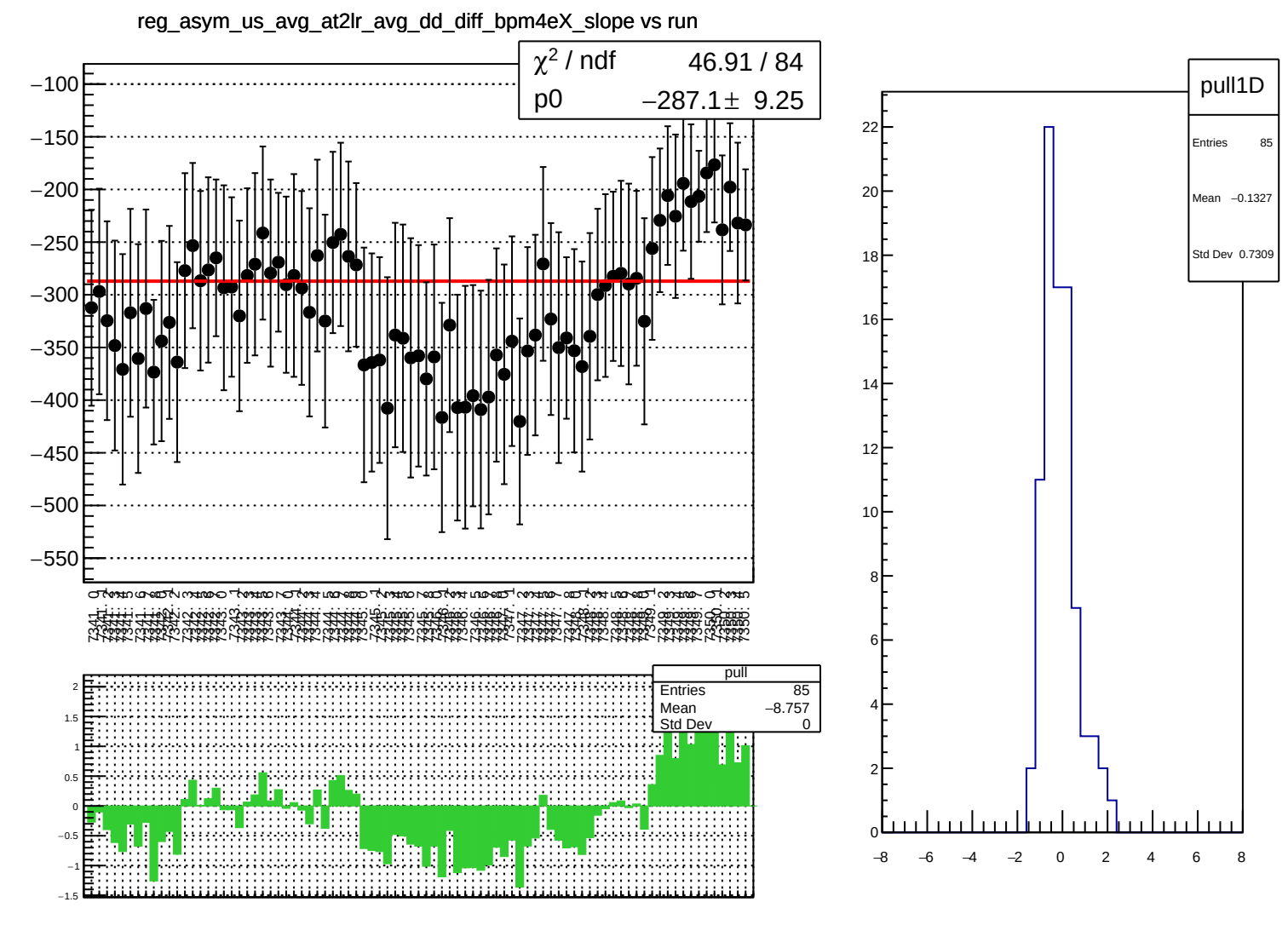

pull1D
Entries 85
Mean −0.01163
Std Dev 0.3735

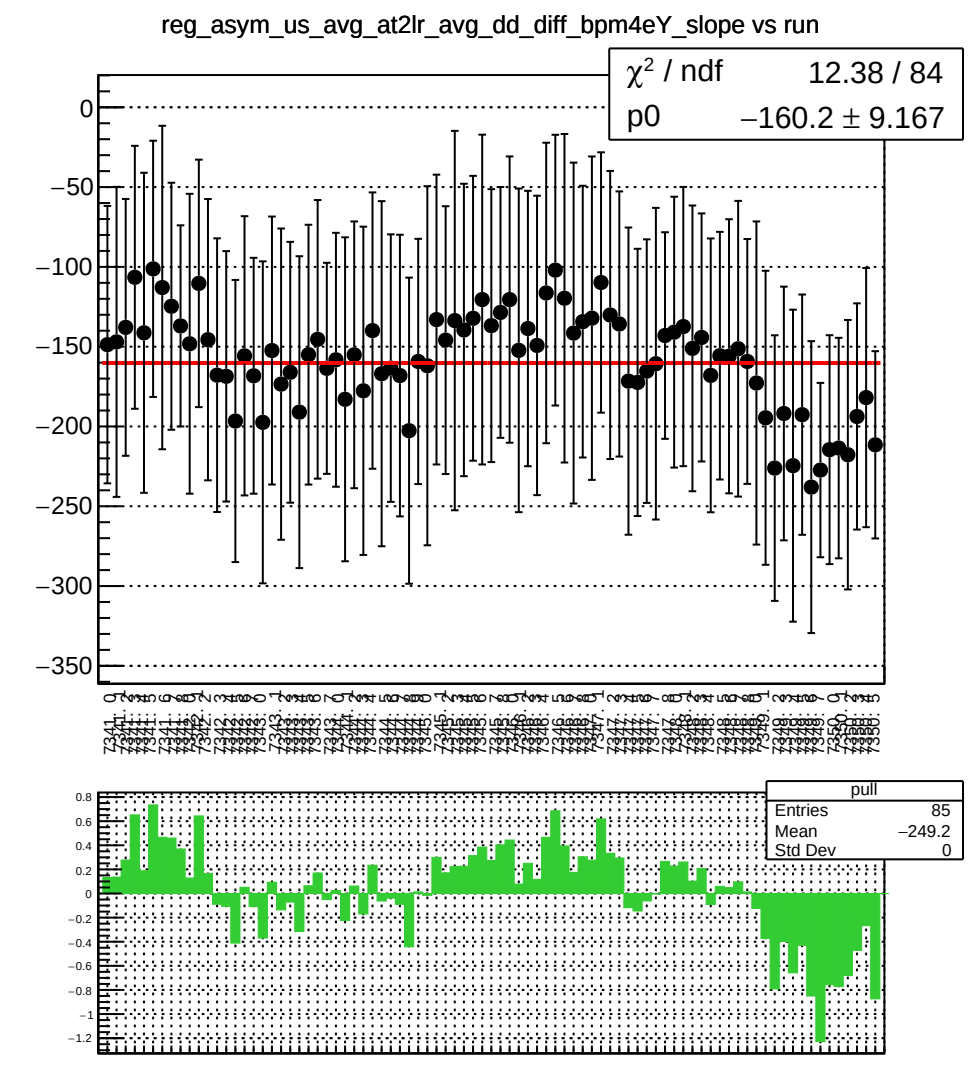

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 31.62 / 84
p0 −277.6 ± 0.563
pull
Entries 85
Mean 255.5
Std Dev 0

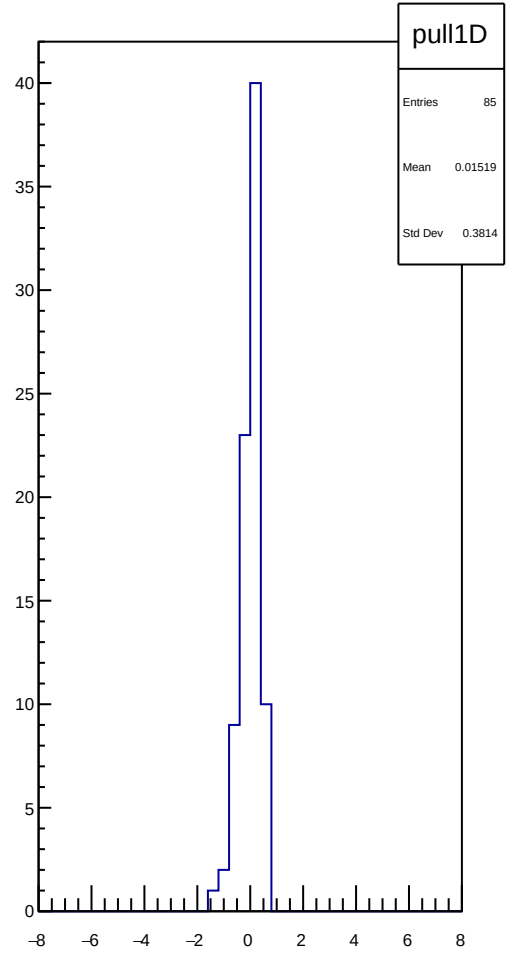

pull1D
Entries 85
Mean −0.02
Std Dev 0.6096

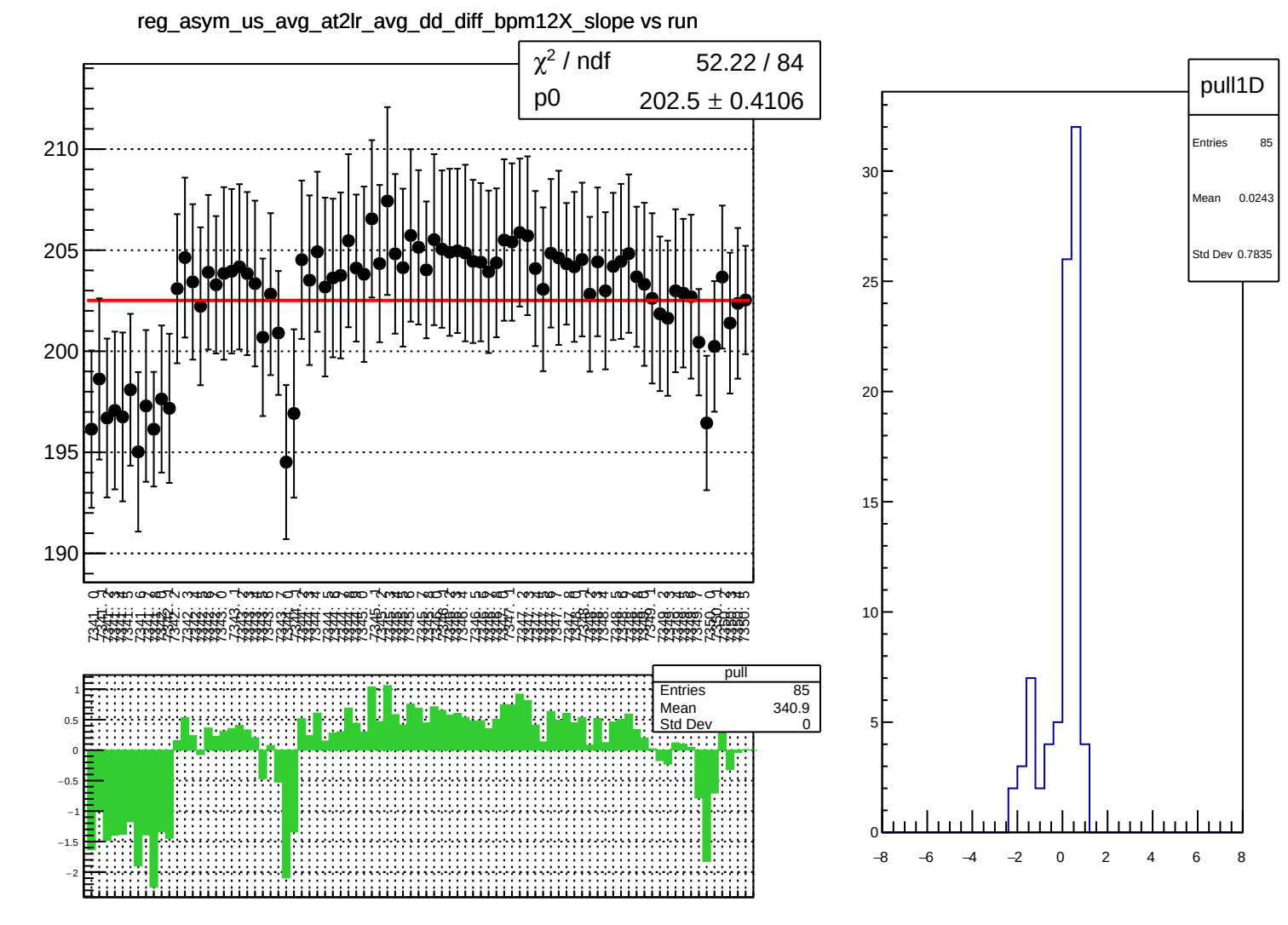

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 46.69 / 84
p0 268.4 ± 9.404
pull
Entries 85
Mean −10.03
Std Dev 0
pull1D
Entries 85
Mean 0.1296
Std Dev 0.7297

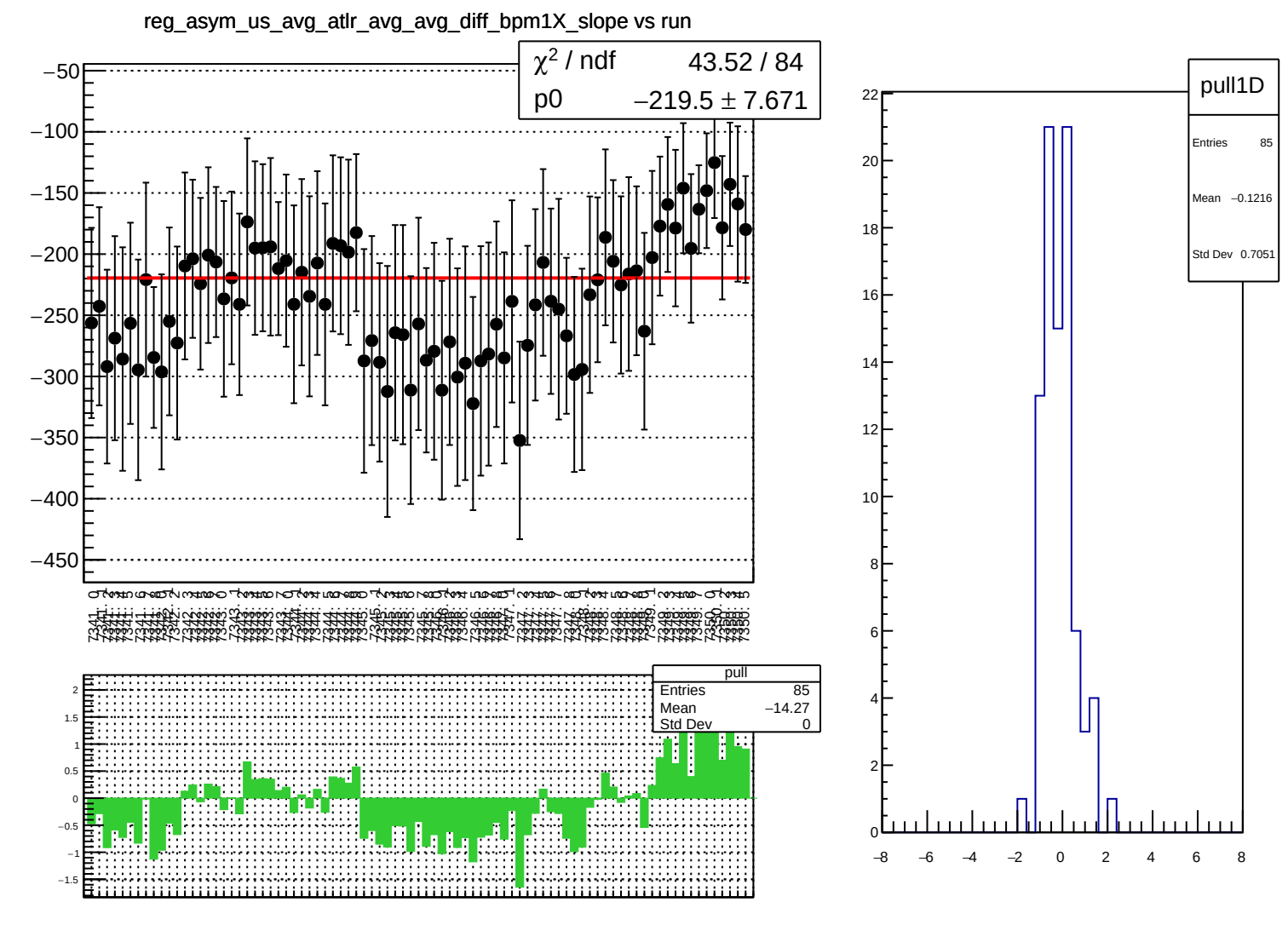

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.67 / 84
p0 49.43 ± 8.403
pull
Entries 85
Mean −397.5
Std Dev 0
pull1D
Entries 85
Mean −0.009179
Std Dev 0.3705

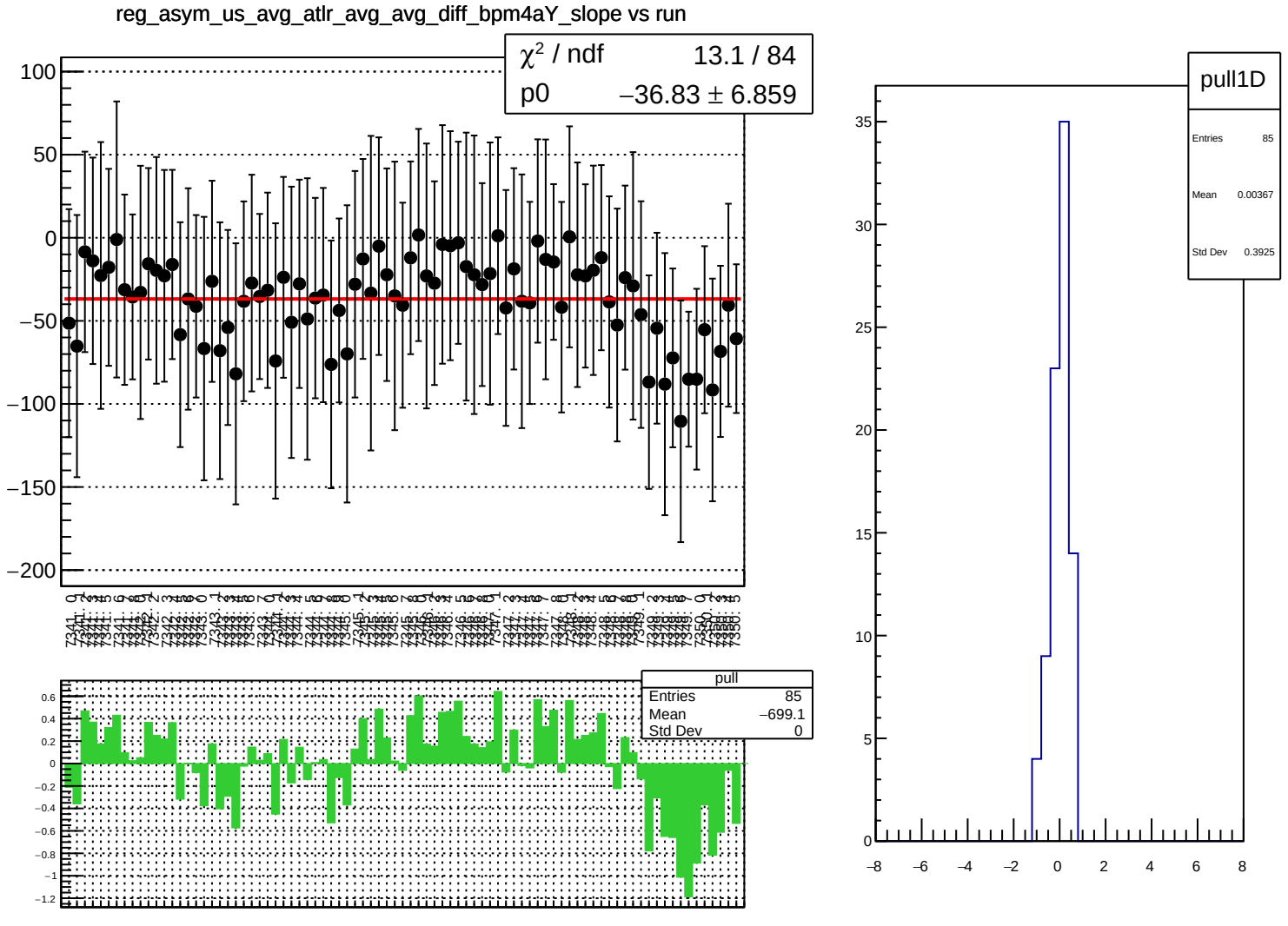

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.91 / 84
p0 −287.1± 9.25
pull
Entries 85
Mean −8.757
Std Dev 0
pull1D
Entries 85
Mean −0.1327
Std Dev 0.7309

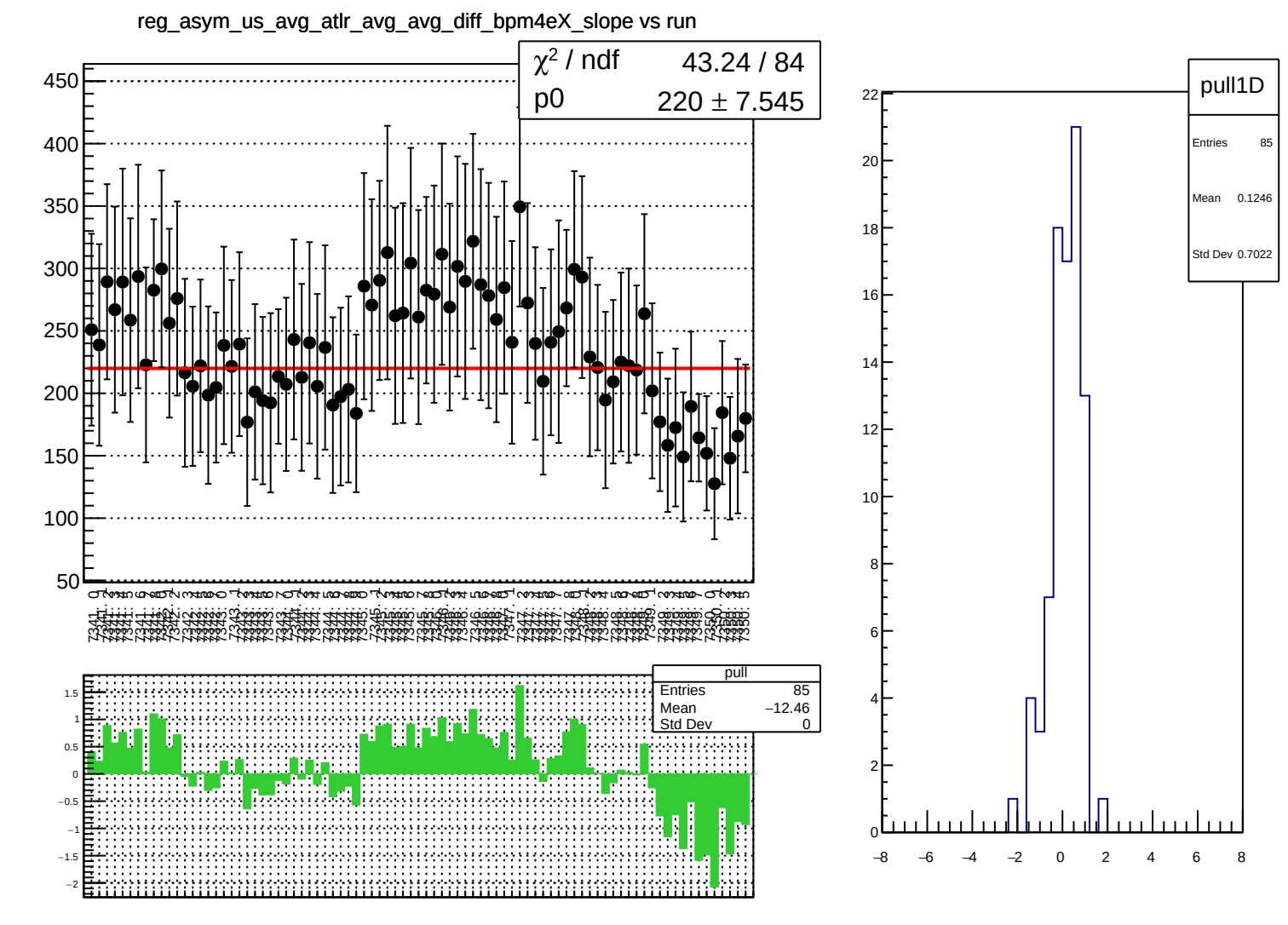

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.38 / 84
p0 −160.2 ± 9.167
pull
Entries 85
Mean −249.2
Std Dev 0

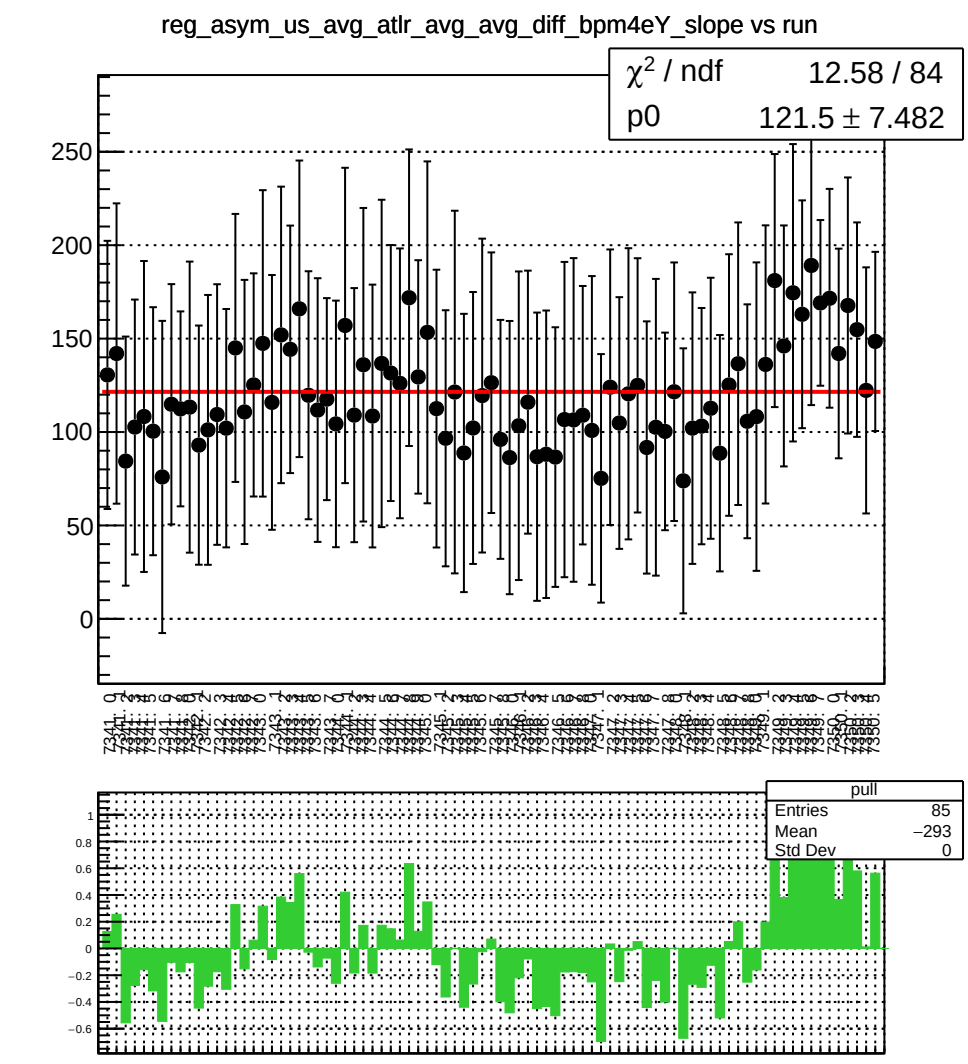

pull1D
Entries 85
Mean 0.01519
Std Dev 0.3814

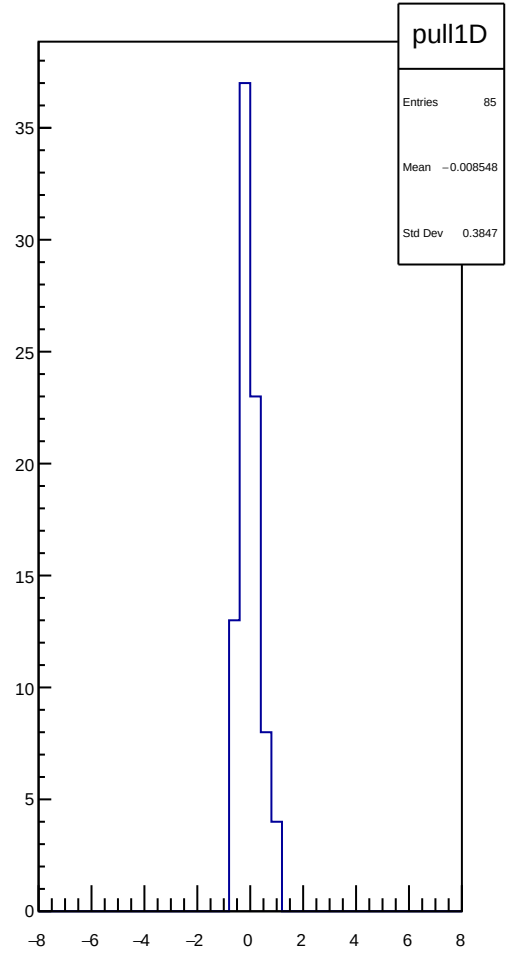

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 52.22 / 84
p0 202.5 ± 0.4106
pull
Entries 85
Mean 340.9
Std Dev 0
pull1D
Entries 85
Mean 0.0243
Std Dev 0.7835

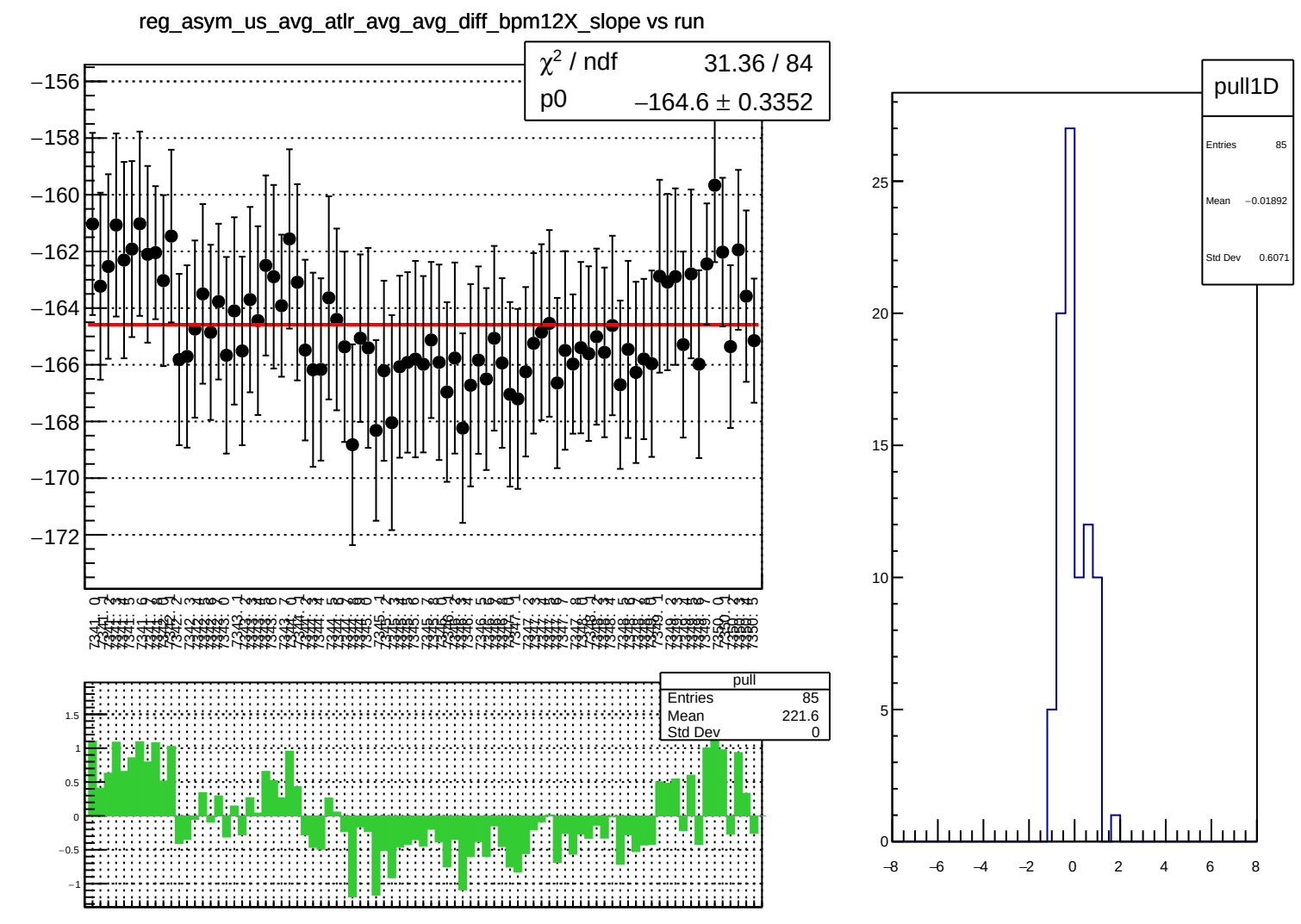

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 43.52 / 84
p0 −219.5 ± 7.671
pull
Entries 85
Mean −14.27
Std Dev 0
pull1D
Entries 85
Mean −0.1216
Std Dev 0.7051

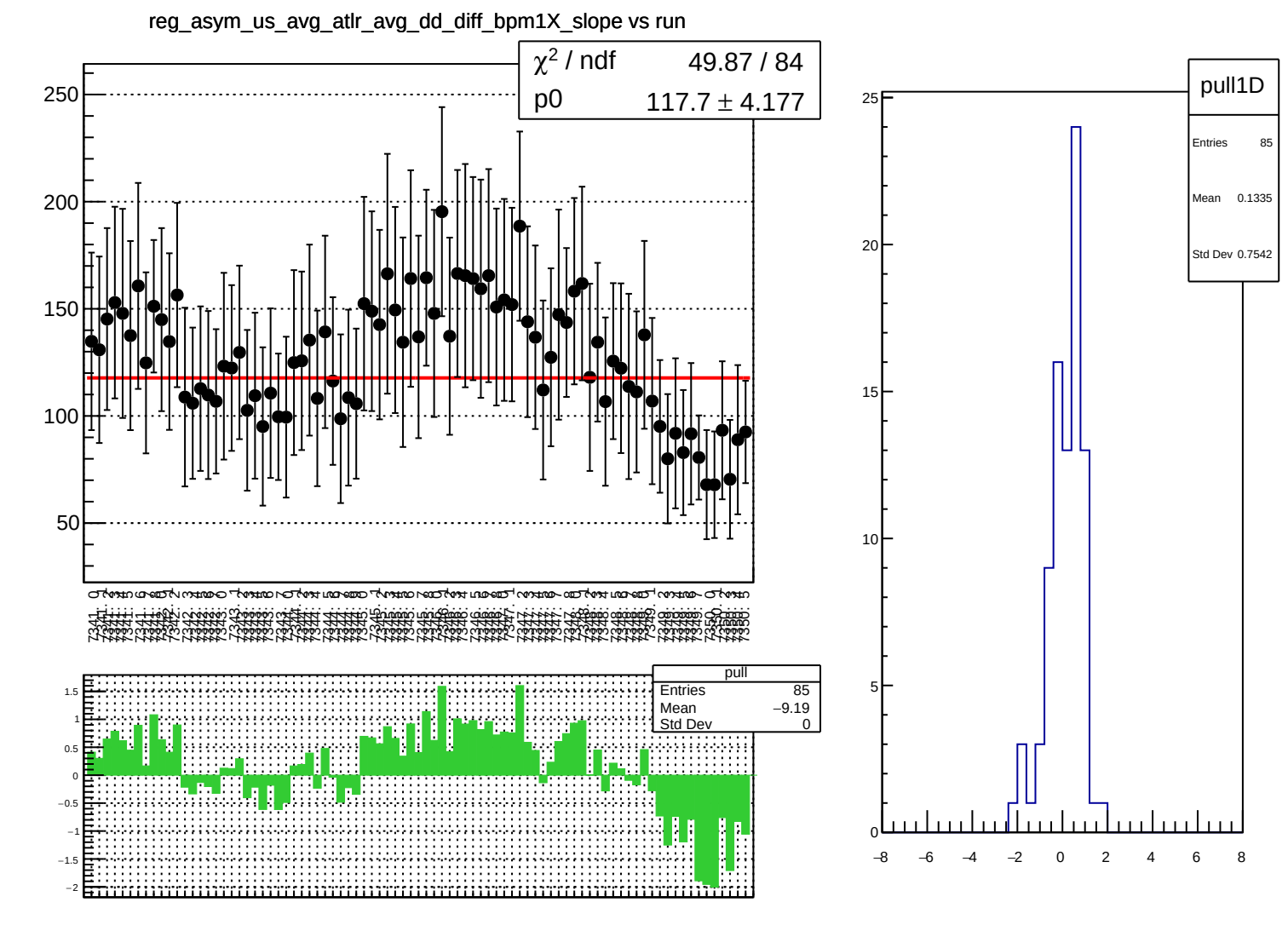

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.1 / 84
p0 −36.83 ± 6.859
pull
Entries 85
Mean −699.1
Std Dev 0
pull1D
Entries 85
Mean 0.00367
Std Dev 0.3925

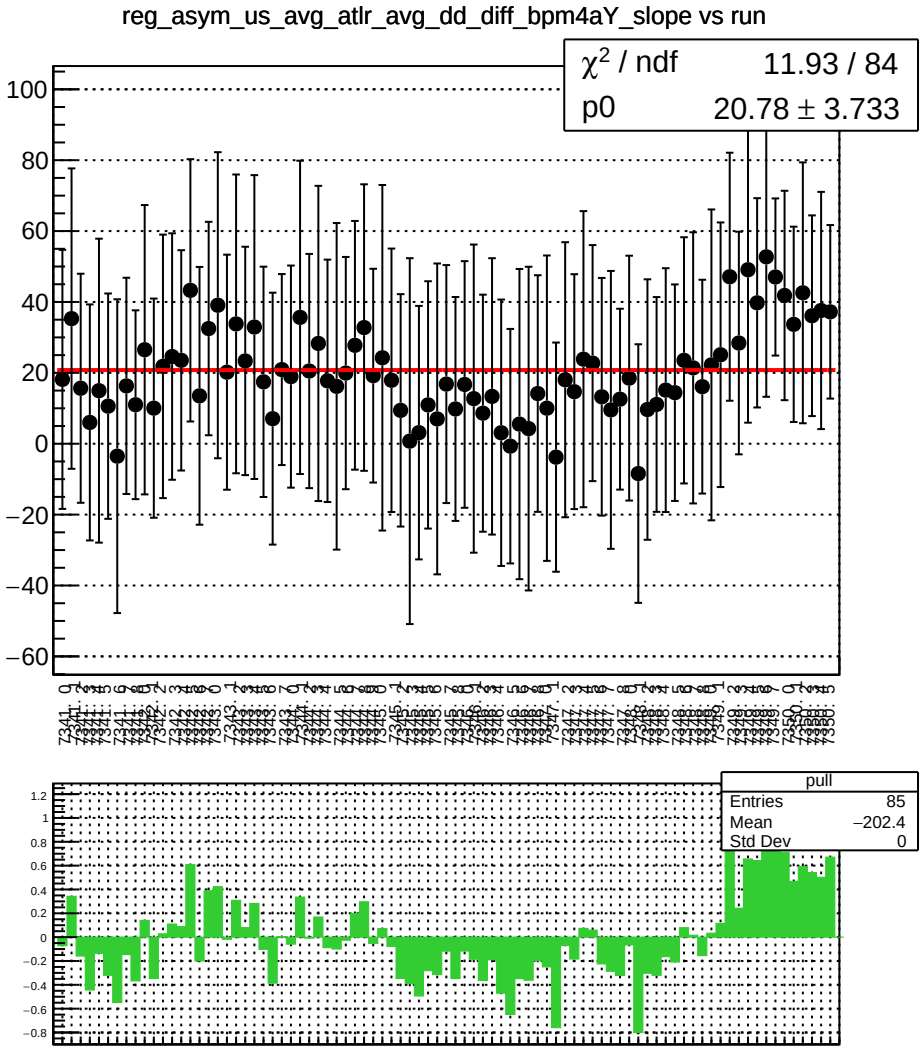

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.24 / 84
p0 220 ± 7.545
pull
Entries 85
Mean −12.46
Std Dev 0
pull1D
Entries 85
Mean 0.1246
Std Dev 0.7022

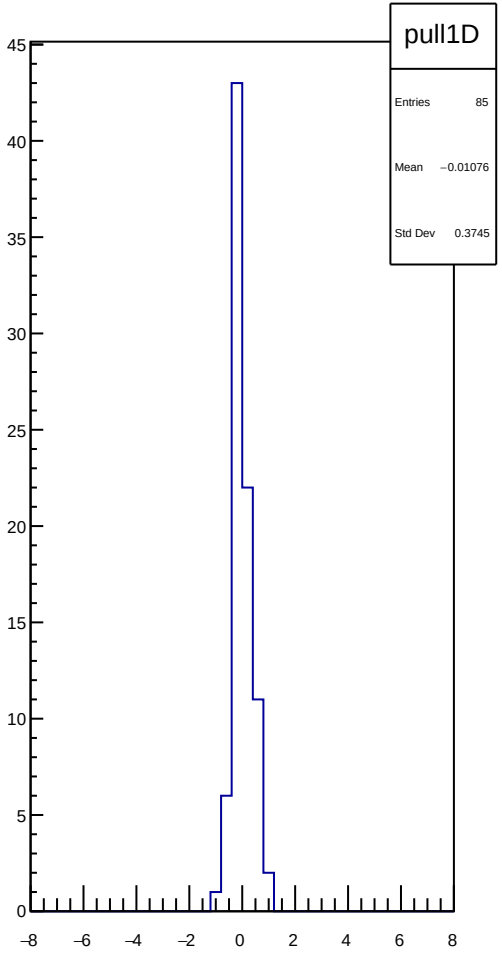

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.58 / 84
p0 121.5 ± 7.482
pull
Entries 85
Mean −293
Std Dev 0

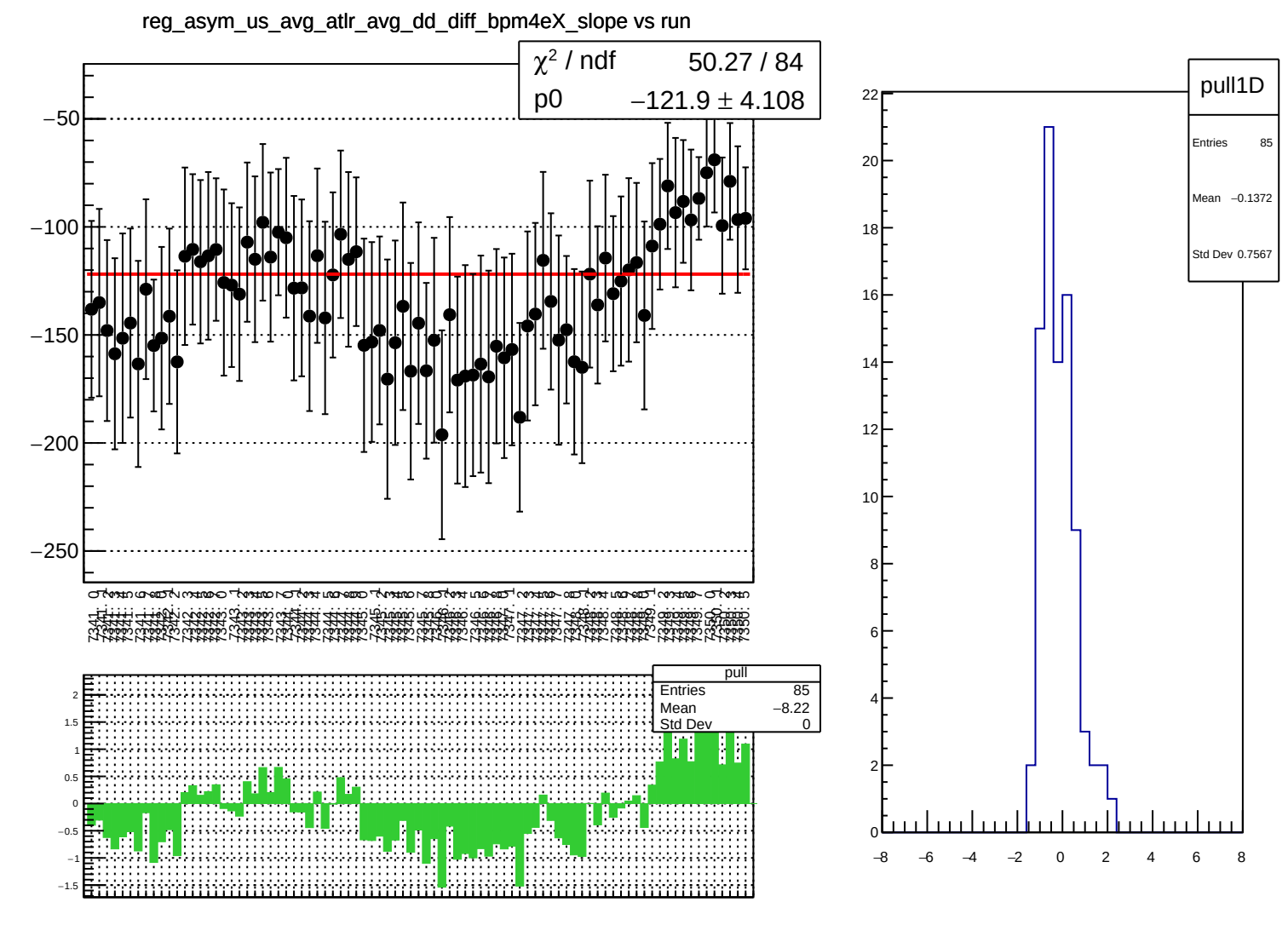

pull1D
Entries 85
Mean −0.008548
Std Dev 0.3847

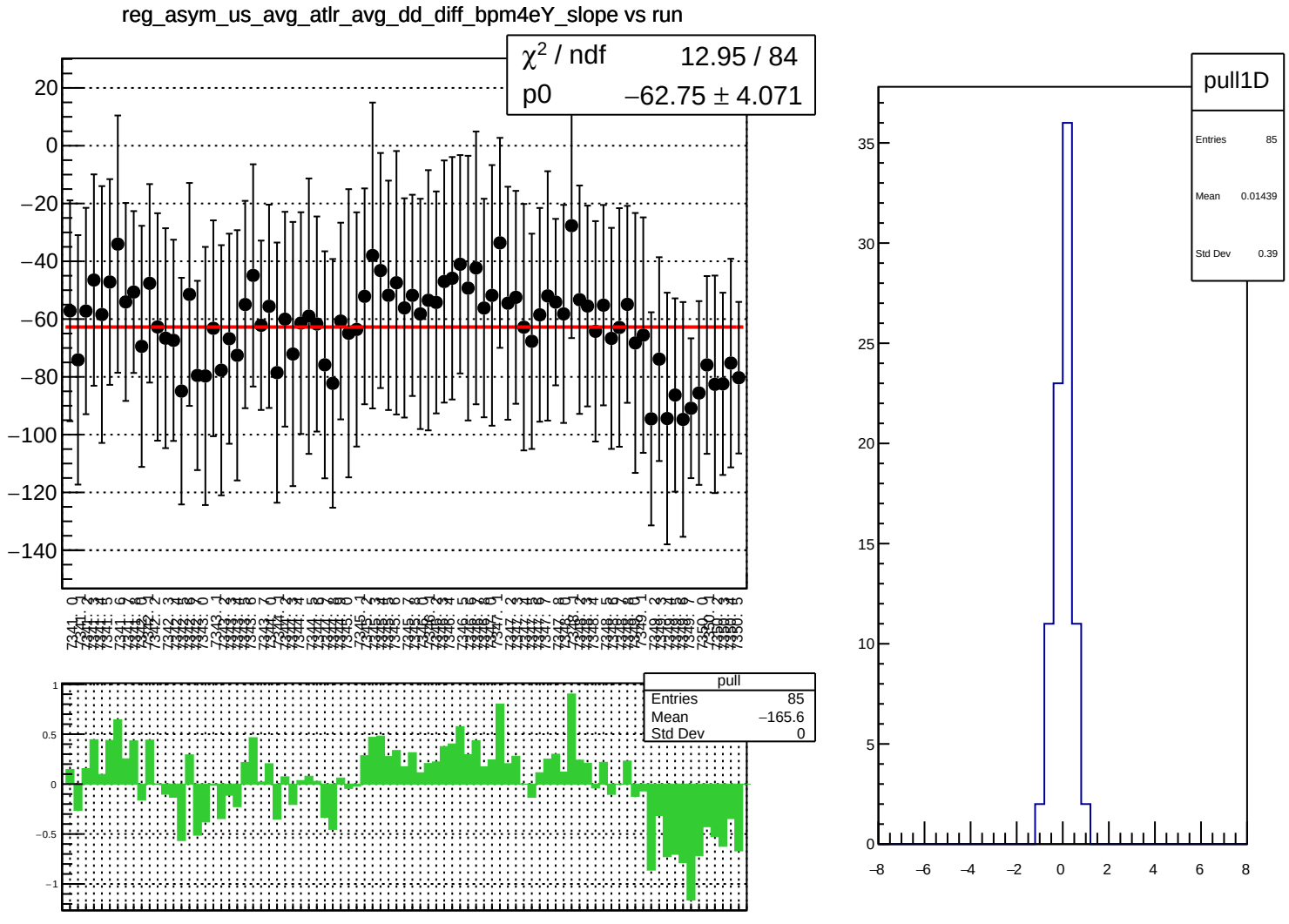

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 31.36 / 84
p0 −164.6 ± 0.3352
pull
Entries 85
Mean 221.6
Std Dev 0
pull1D
Entries 85
Mean −0.01892
Std Dev 0.6071

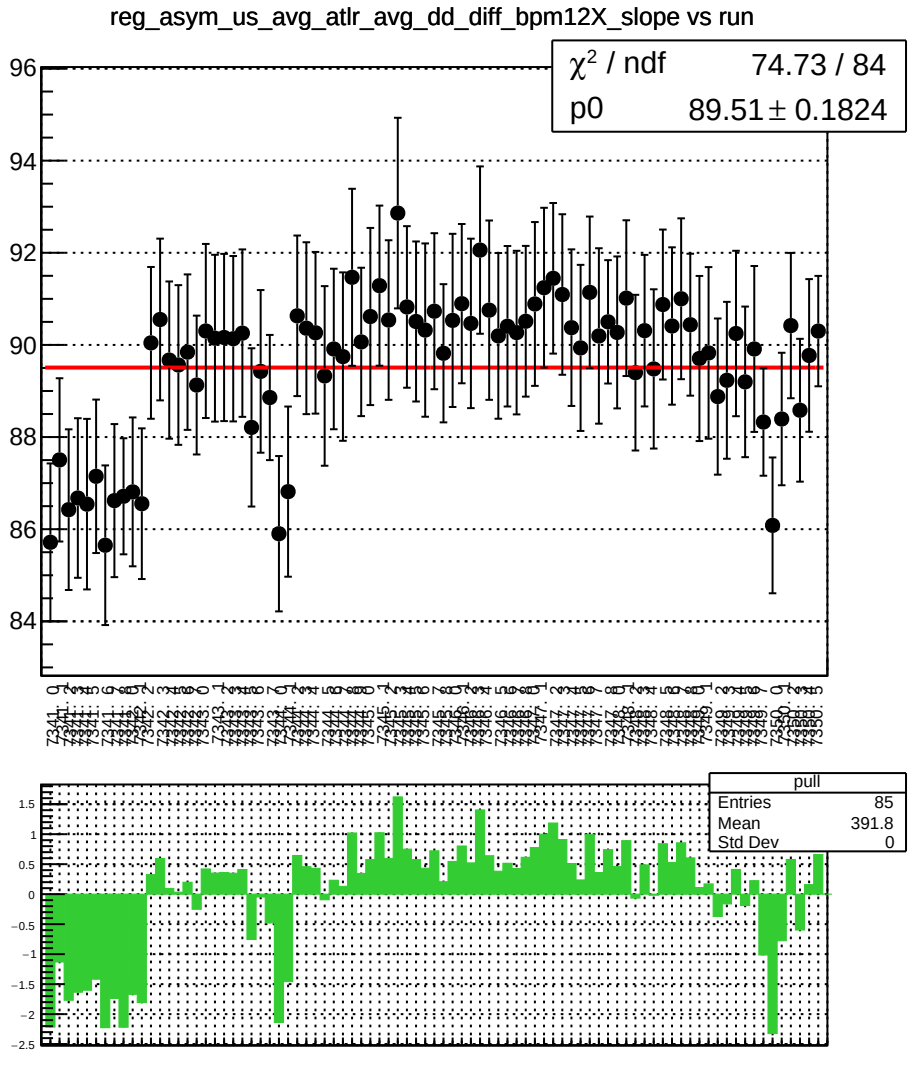

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 49.87 / 84
p0 117.7 ± 4.177
250
200
150
100
50
pull
Entries 85
Mean −9.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 85
Mean 0.1335
Std Dev 0.7542
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

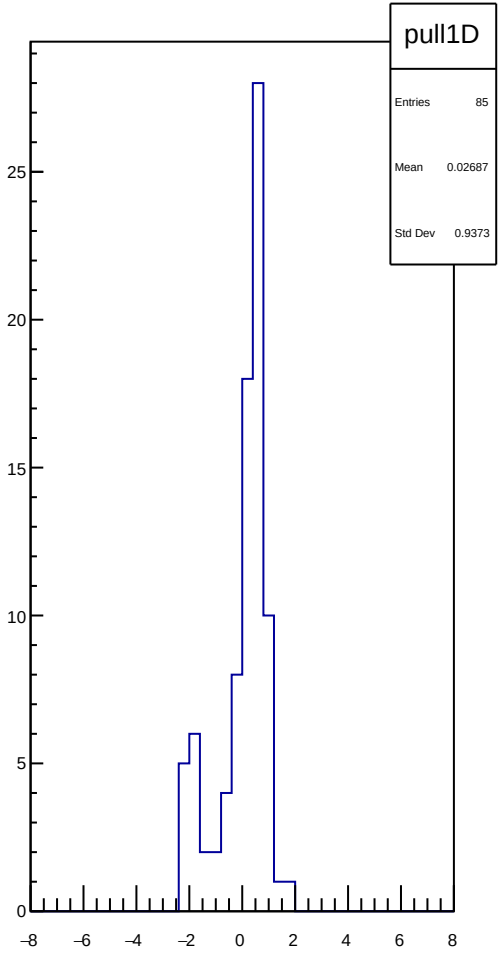

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.93 / 84
p0 20.78 ± 3.733
pull
Entries 85
Mean −202.4
Std Dev 0

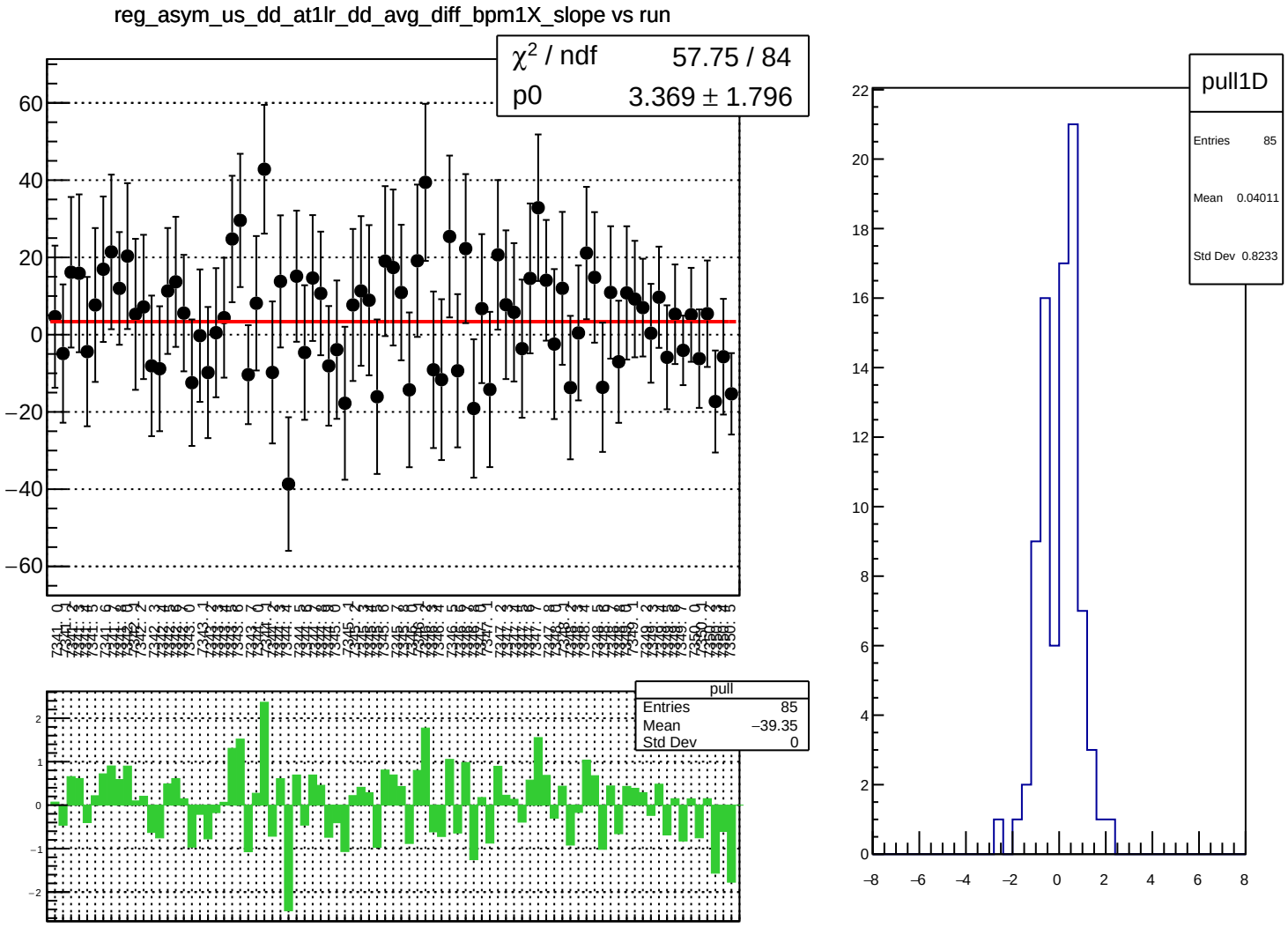

pull1D
Entries 85
Mean −0.01076
Std Dev 0.3745

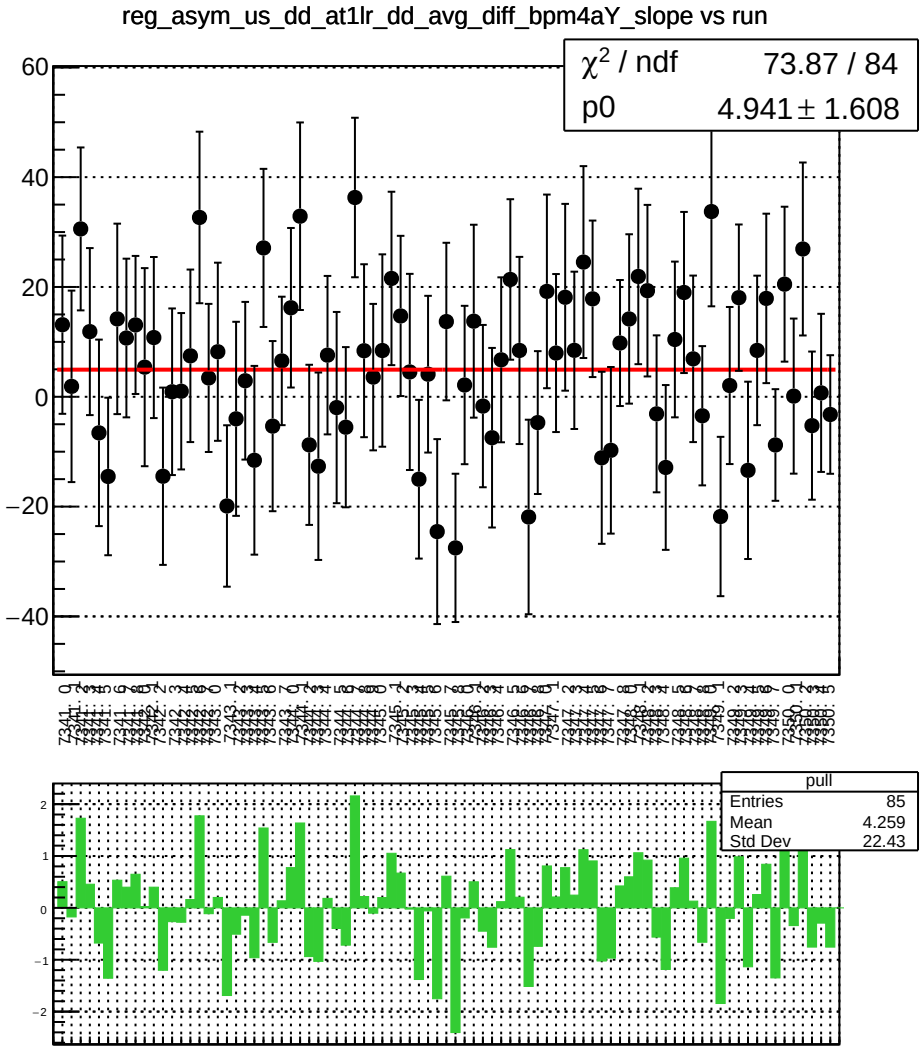

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.27 / 84
p0 −121.9 ± 4.108
pull
Entries 85
Mean −8.22
Std Dev 0
pull1D
Entries 85
Mean −0.1372
Std Dev 0.7567

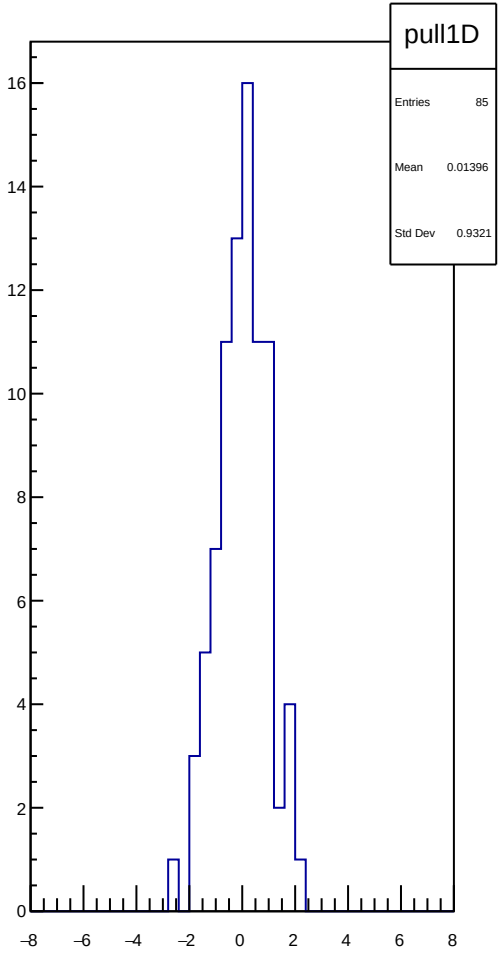

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.95 / 84
p0 −62.75 ± 4.071
pull
Entries 85
Mean −165.6
Std Dev 0
pull1D
Entries 85
Mean 0.01439
Std Dev 0.39

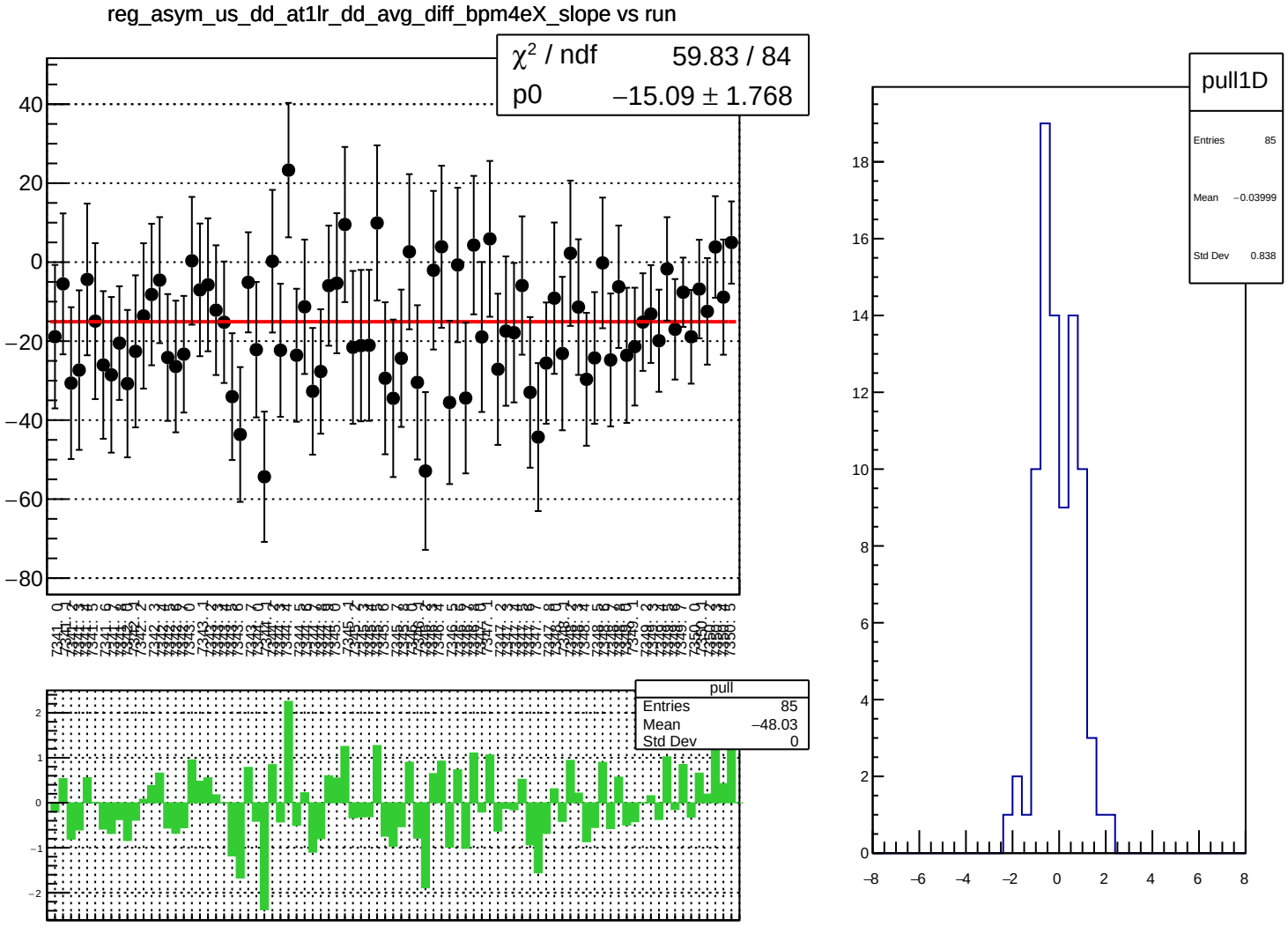

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 74.73 / 84
p0 89.51 ± 0.1824
pull
Entries 85
Mean 391.8
Std Dev 0

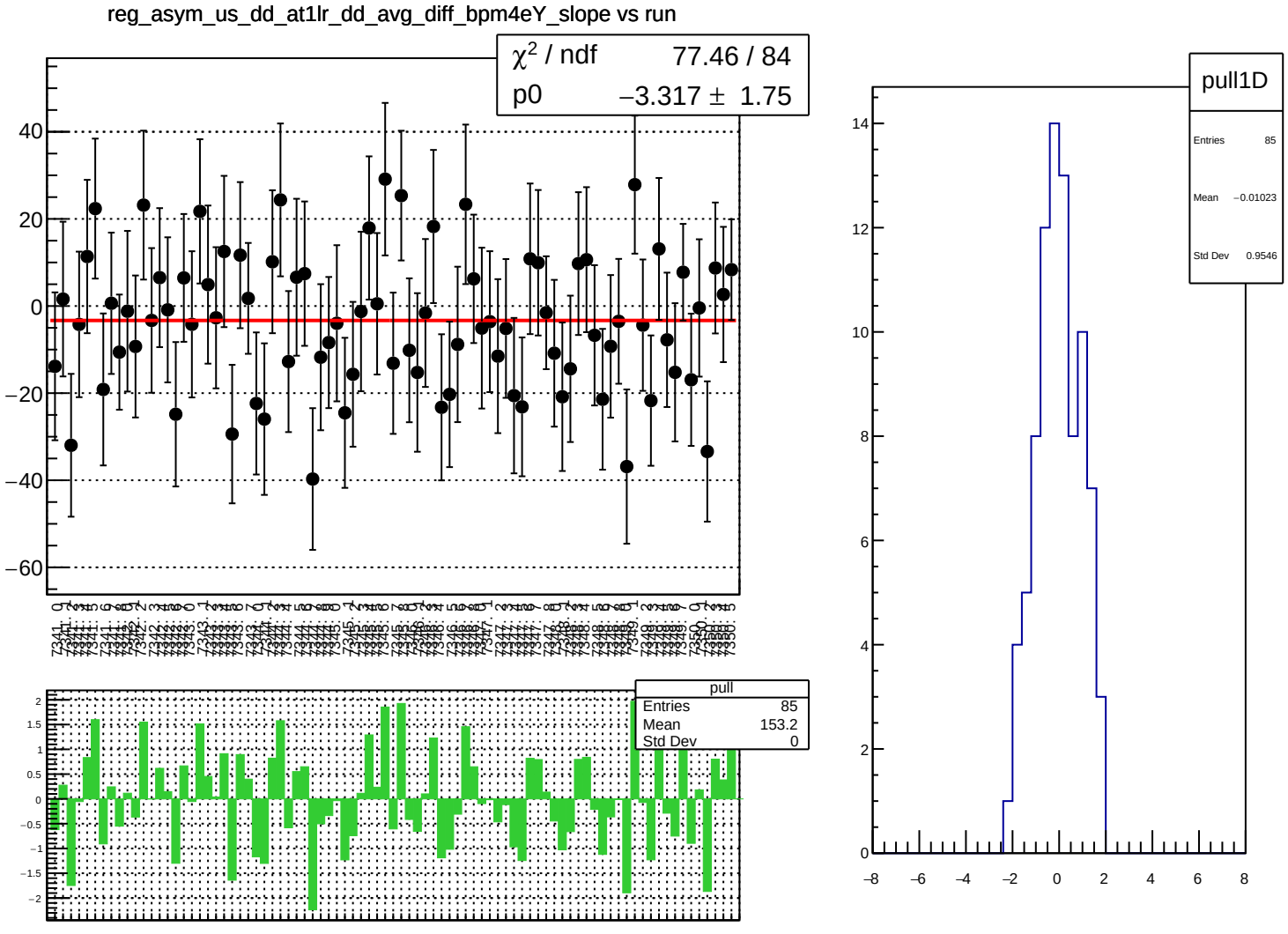

pull1D
Entries 85
Mean 0.02687
Std Dev 0.9373

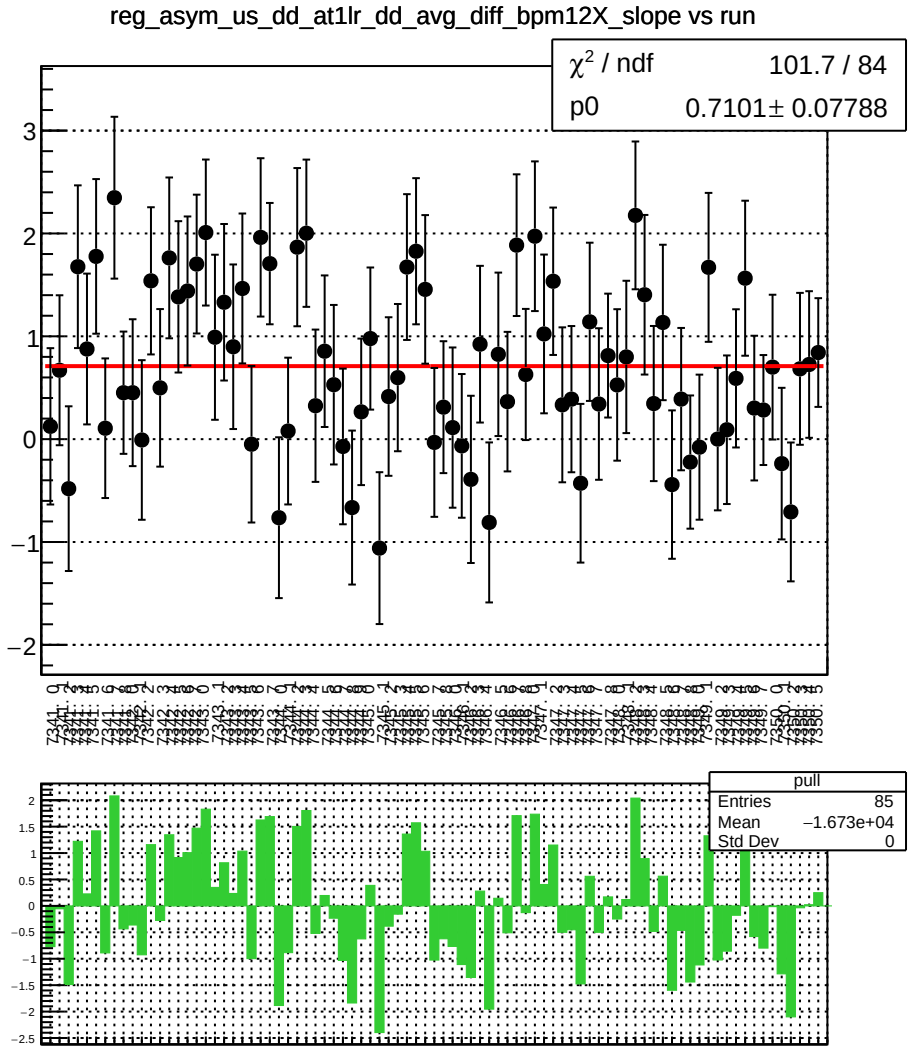

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 57.75 / 84
p0 3.369 ± 1.796
pull
Entries 85
Mean −39.35
Std Dev 0
pull1D
Entries 85
Mean 0.04011
Std Dev 0.8233

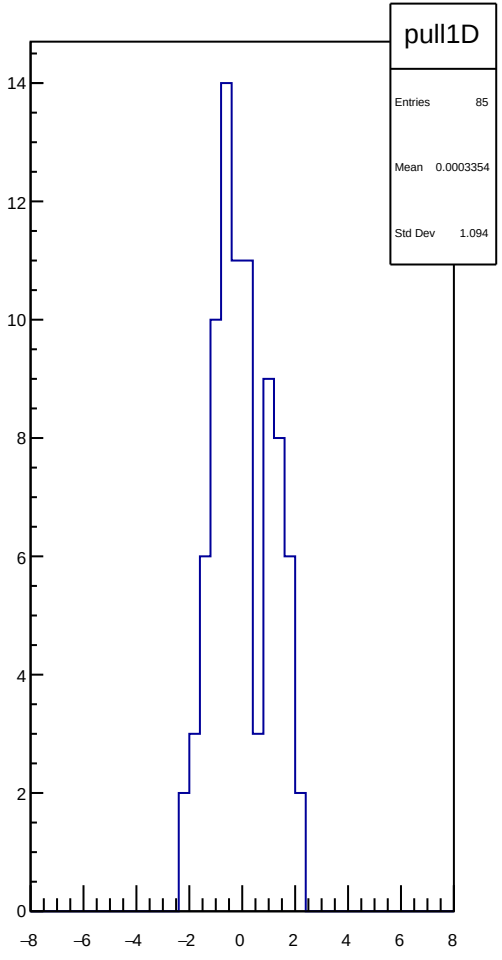

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.87 / 84
p0 4.941 ± 1.608
pull
Entries 85
Mean 4.259
Std Dev 22.43

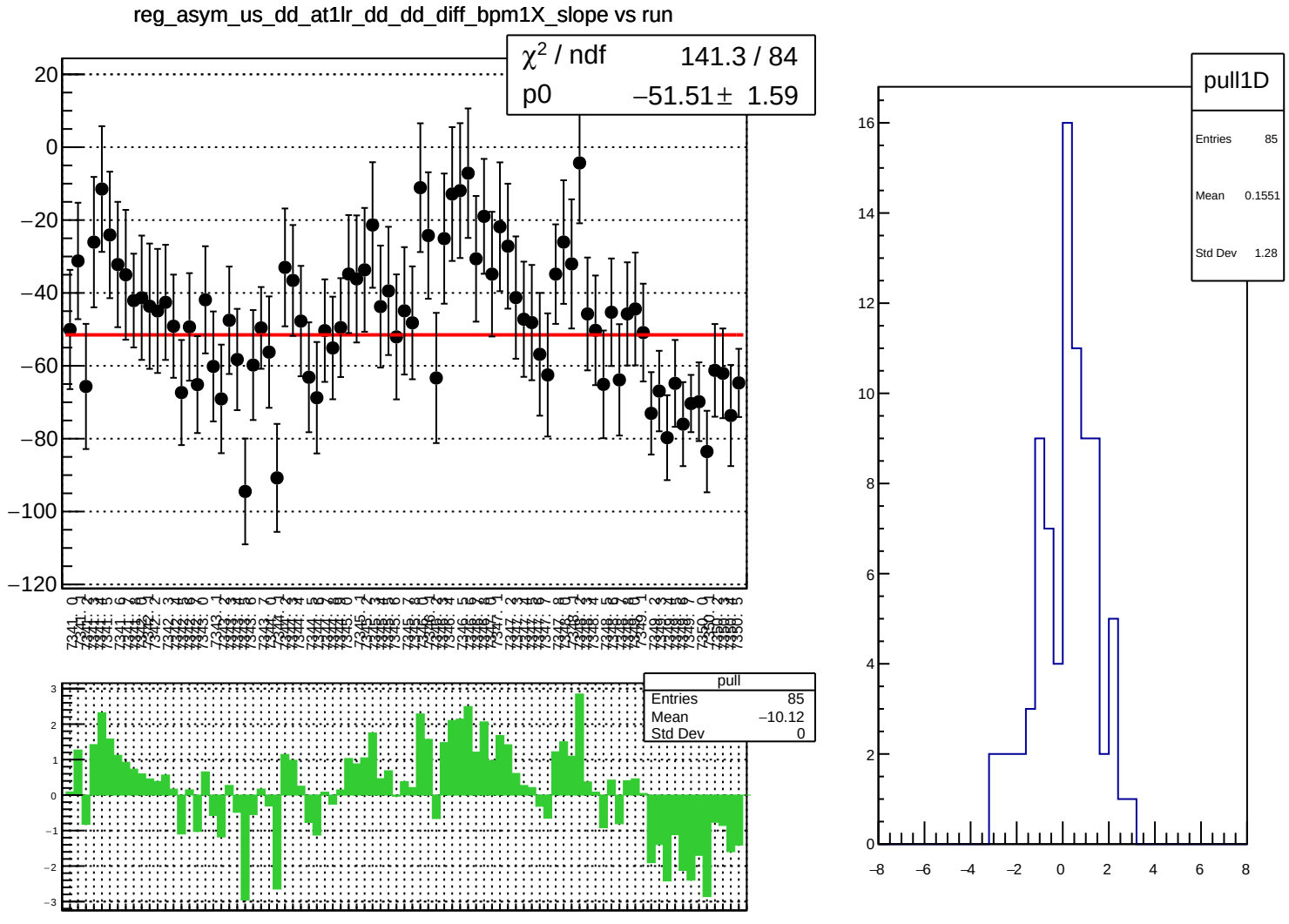

pull1D
Entries 85
Mean 0.01396
Std Dev 0.9321

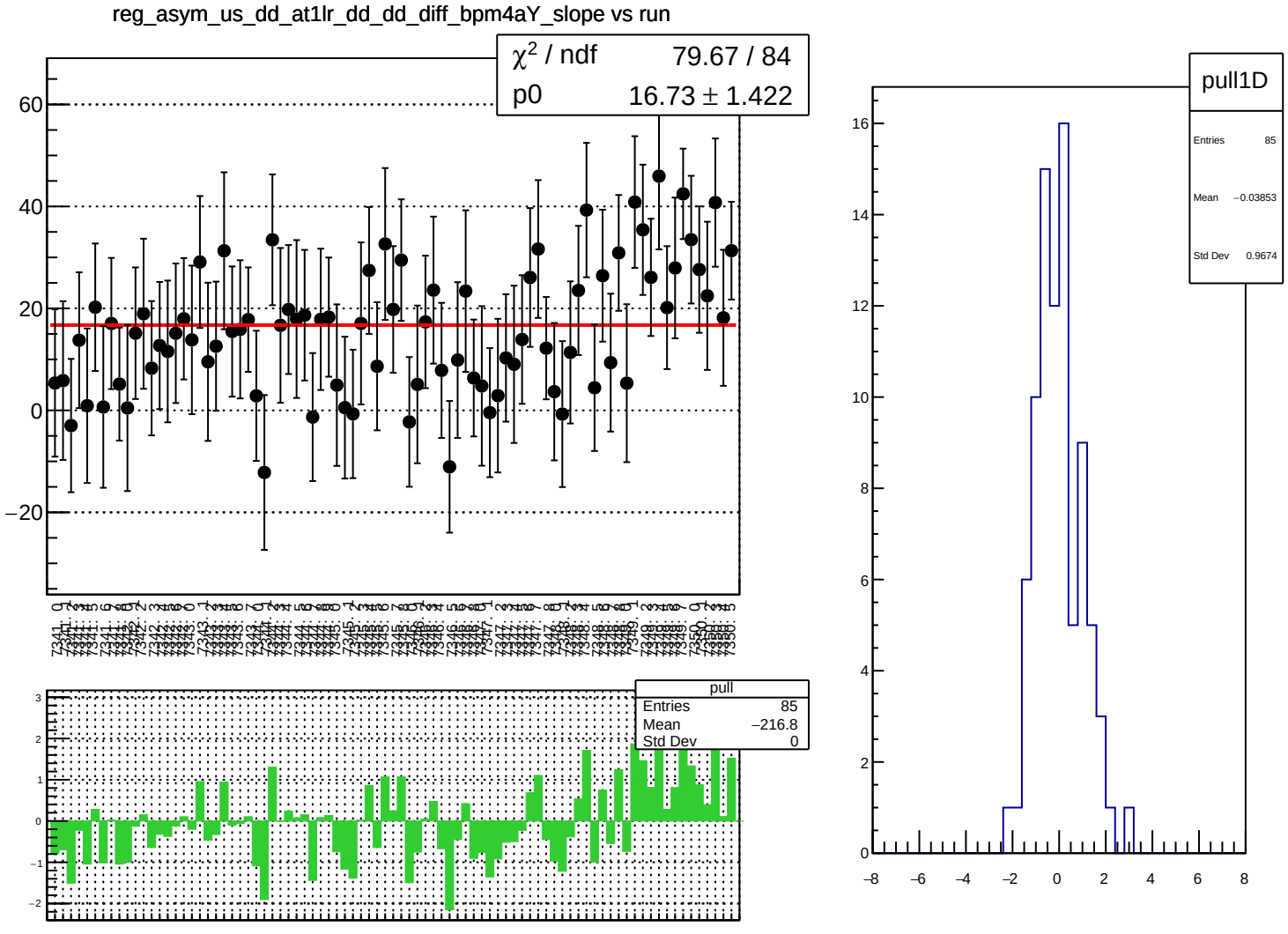

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.83 / 84
p0 −15.09 ± 1.768
pull
Entries 85
Mean −48.03
Std Dev 0
pull1D
Entries 85
Mean −0.03999
Std Dev 0.838

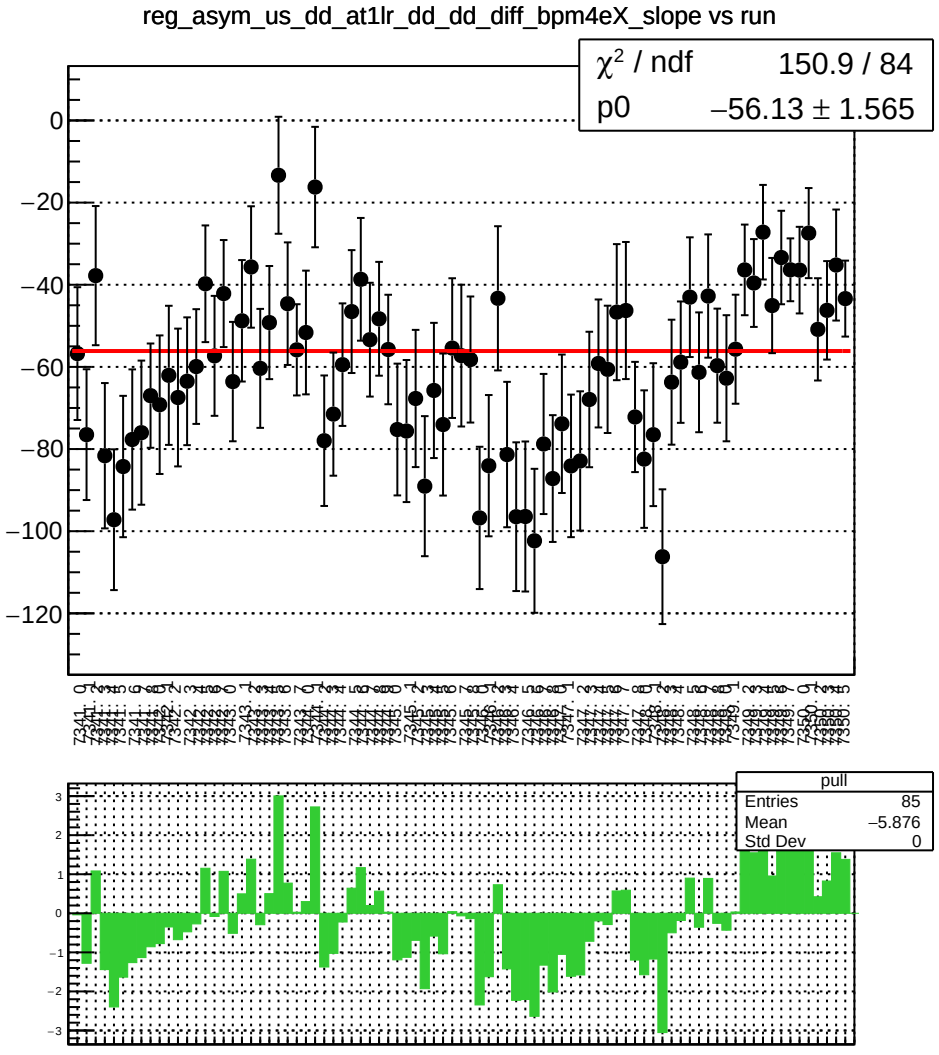

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.46 / 84
p0 −3.317 ± 1.75
pull
Entries 85
Mean 153.2
Std Dev 0
pull1D
Entries 85
Mean −0.01023
Std Dev 0.9546

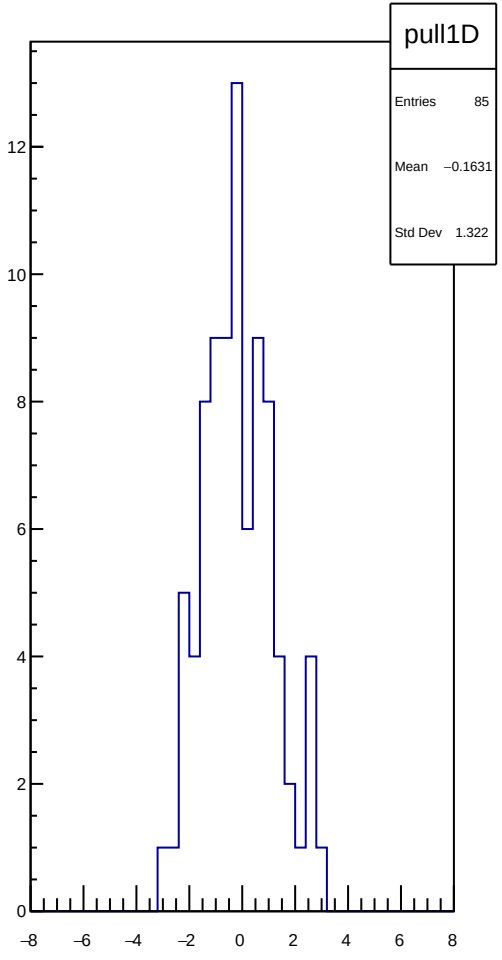

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 101.7 / 84
p0 0.7101± 0.07788
pull
Entries 85
Mean −1.673e+04
Std Dev 0

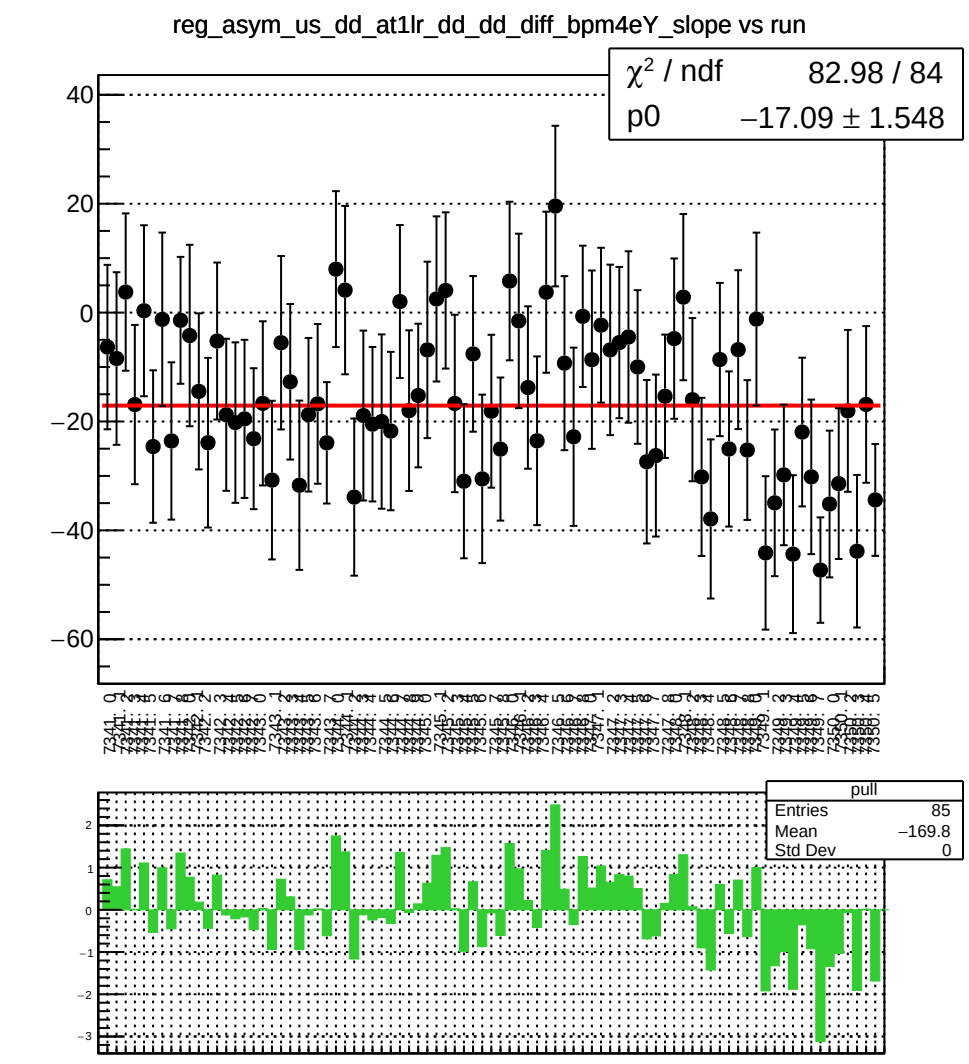

pull1D
Entries 85
Mean 0.0003354
Std Dev 1.094

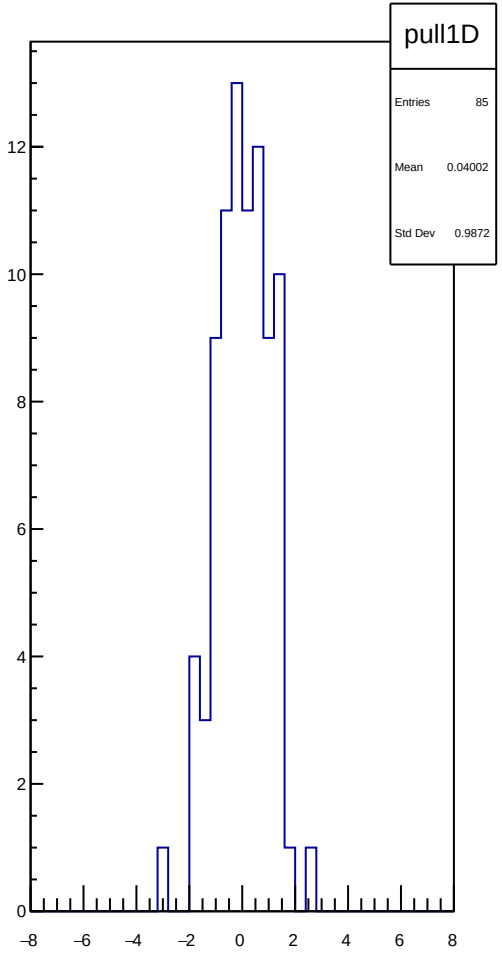

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 141.3 / 84
p0 −51.51 ± 1.59
pull
Entries 85
Mean −10.12
Std Dev 0
pull1D
Entries 85
Mean 0.1551
Std Dev 1.28

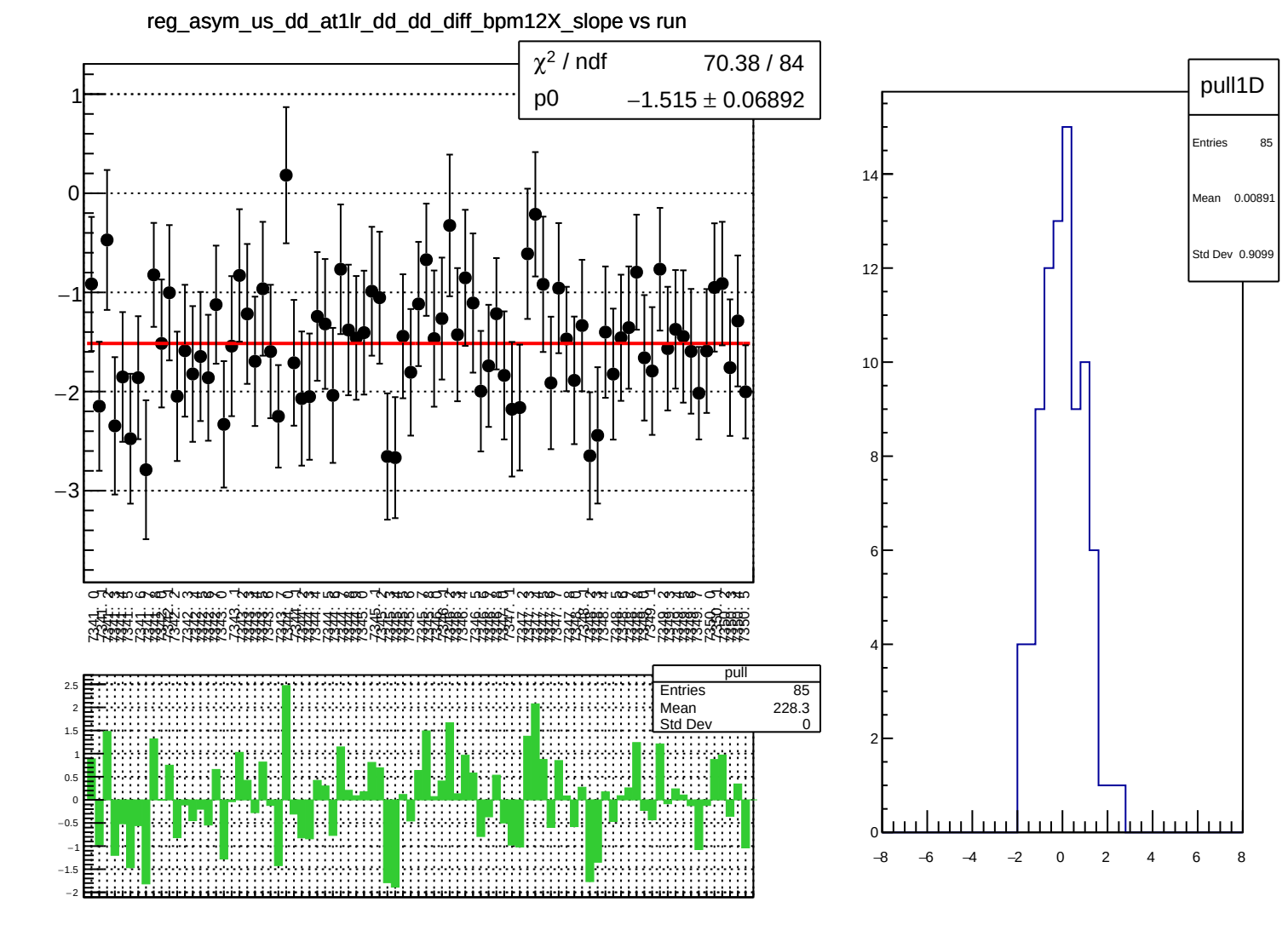

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.67 / 84
p0 16.73 ± 1.422
pull
Entries 85
Mean −216.8
Std Dev 0
pull1D
Entries 85
Mean −0.03853
Std Dev 0.9674

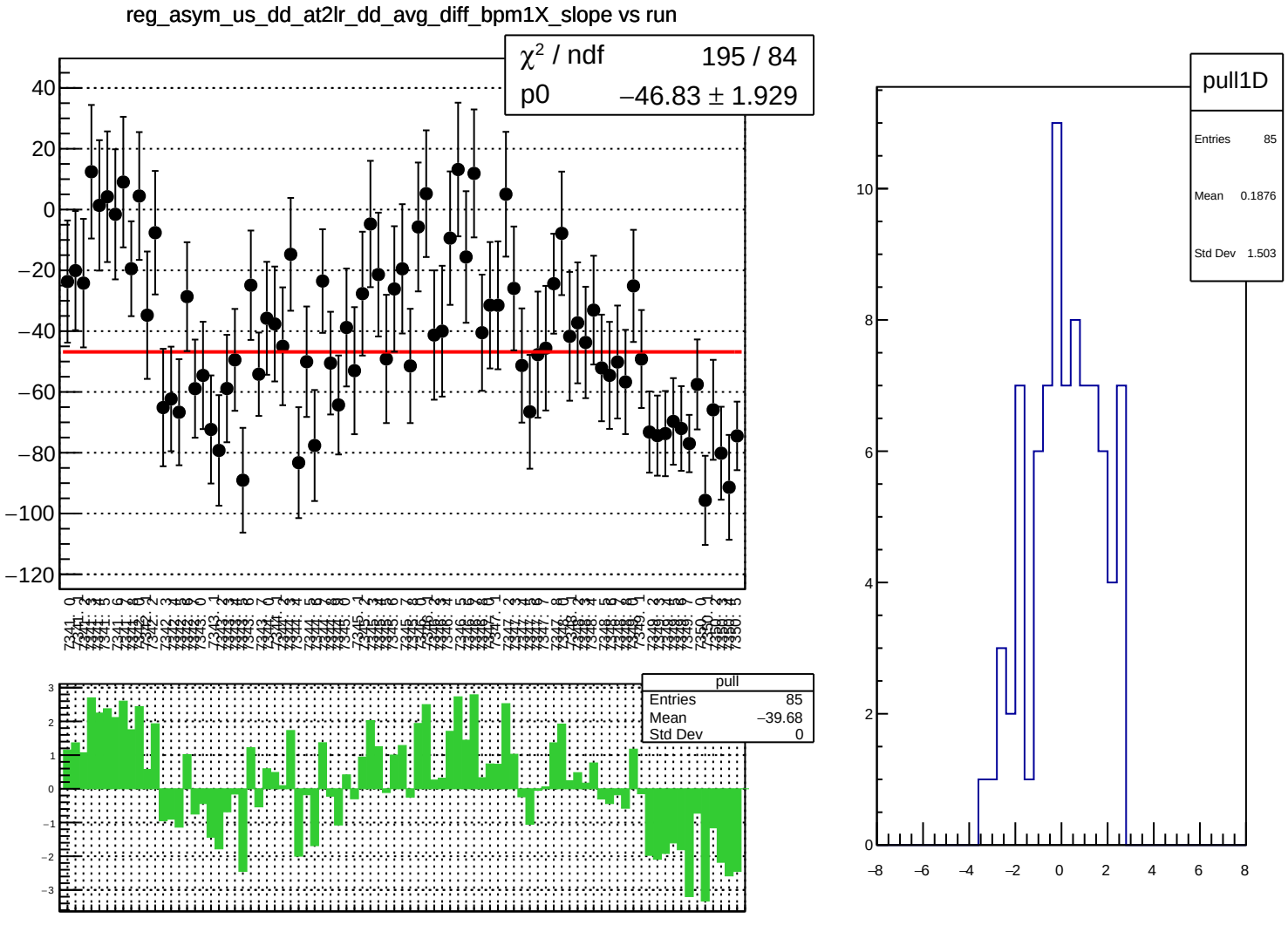

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 150.9 / 84
p0 −56.13 ± 1.565
pull
Entries 85
Mean −5.876
Std Dev 0

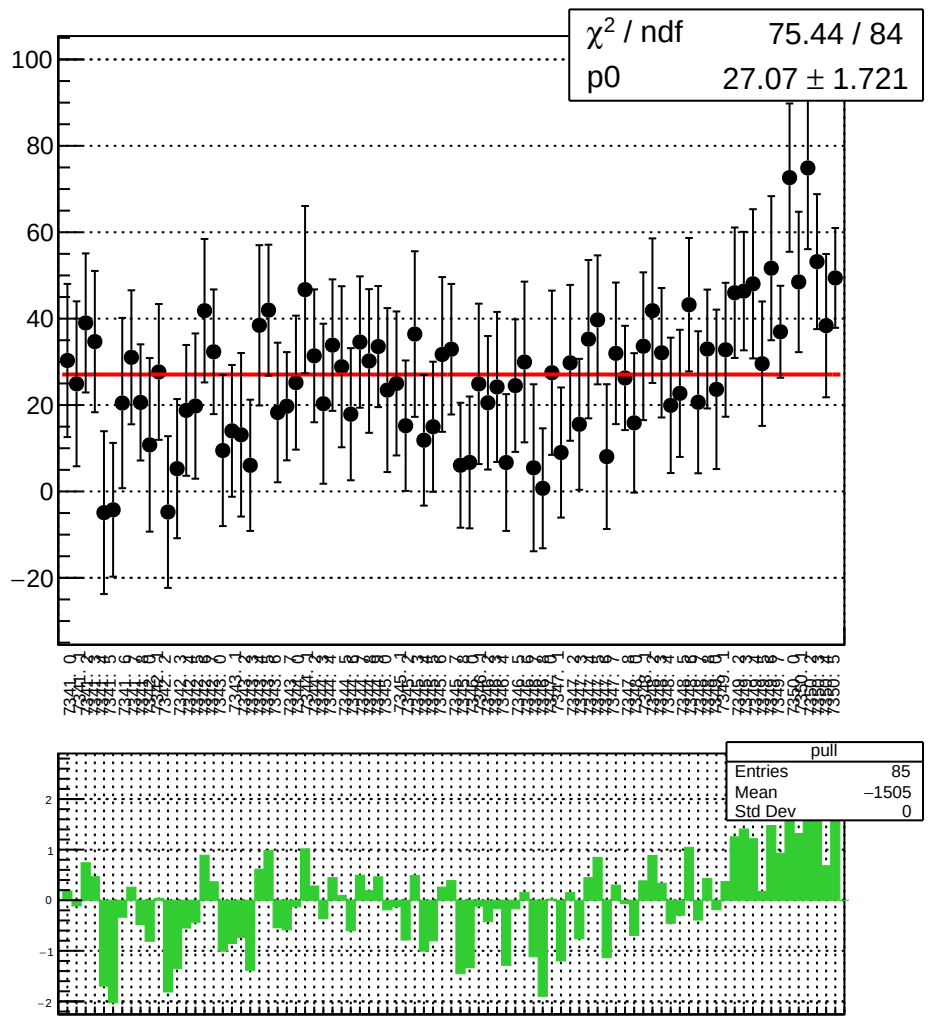

pull1D
Entries 85
Mean −0.1631
Std Dev 1.322

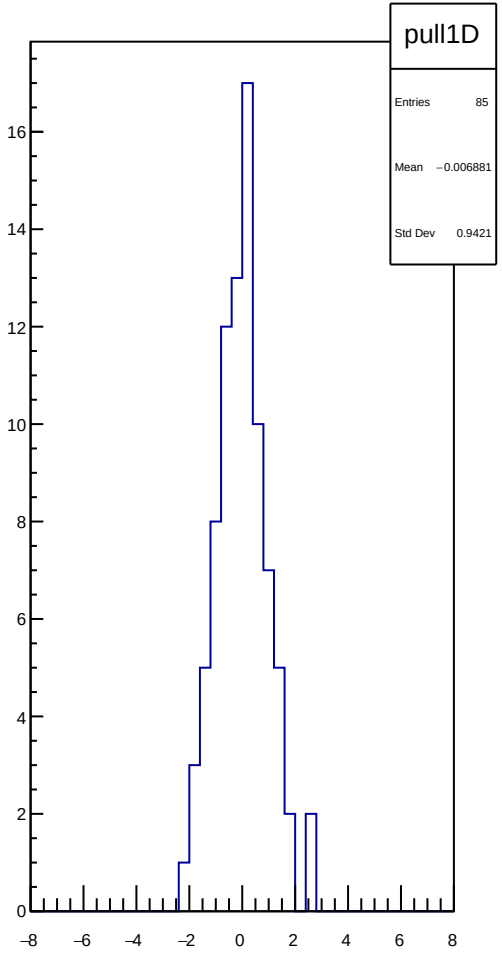

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.98 / 84
p0 −17.09 ± 1.548
pull
Entries 85
Mean −169.8
Std Dev 0

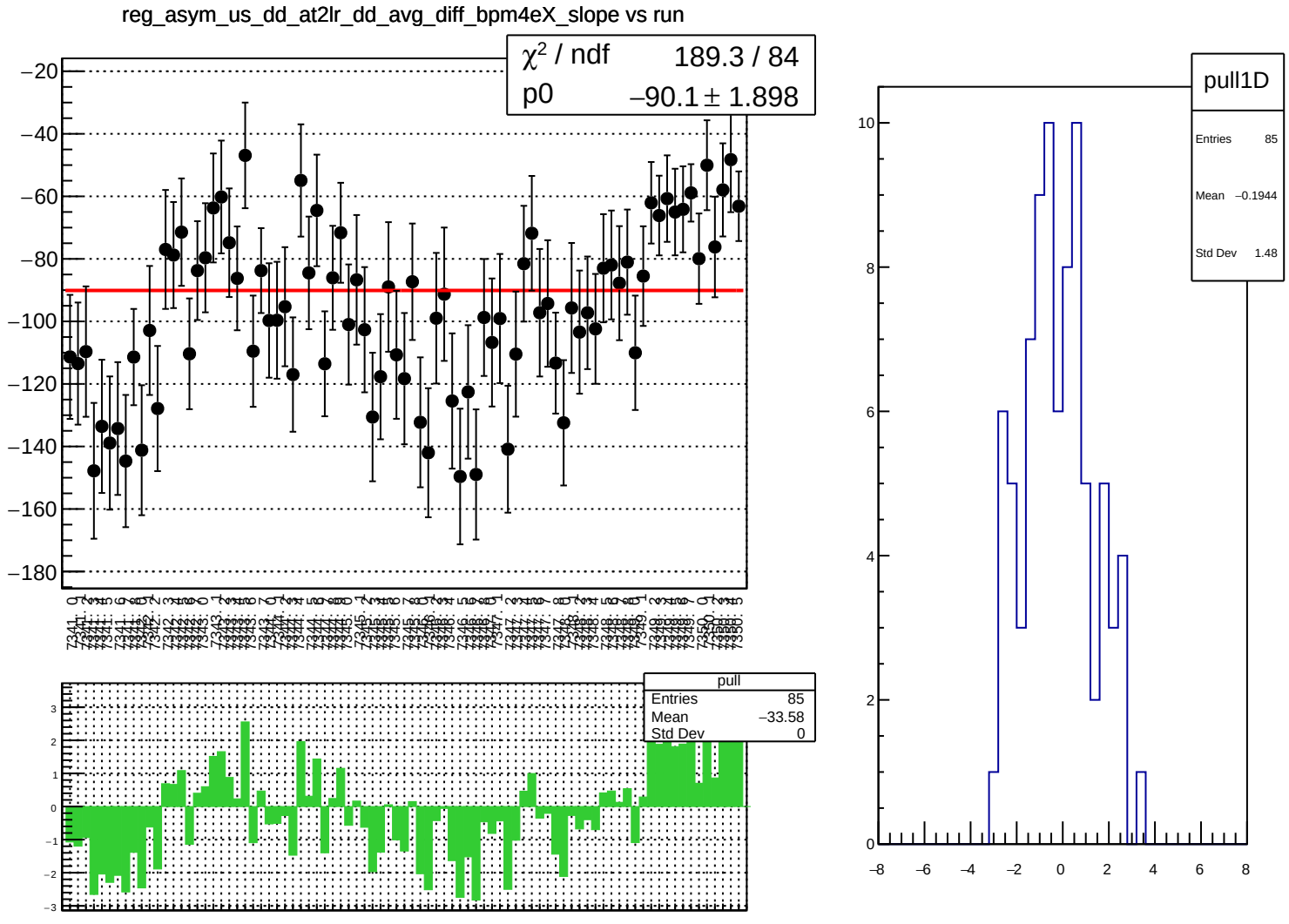

pull1D
Entries 85
Mean 0.04002
Std Dev 0.9872

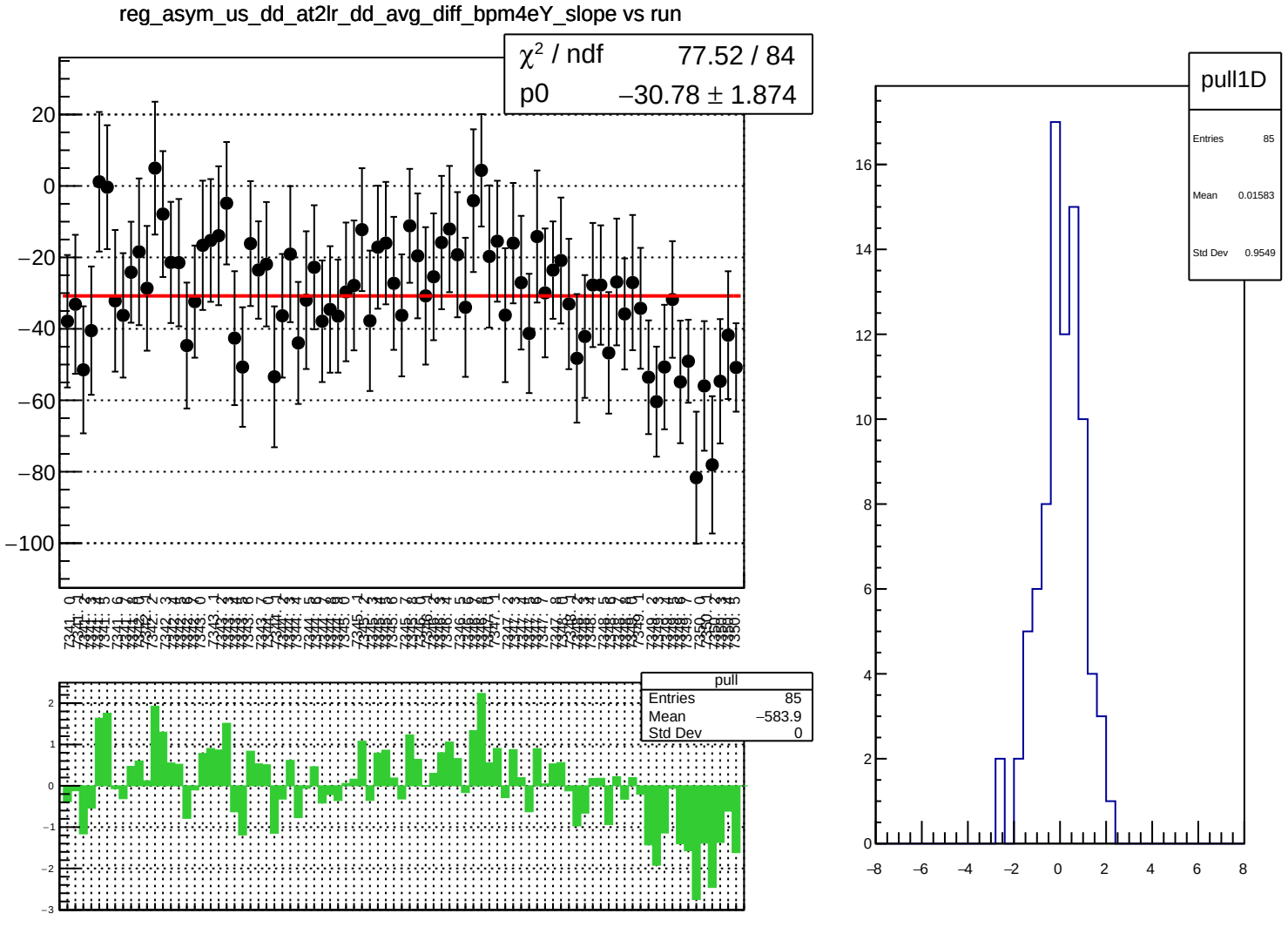

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 70.38 / 84
p0 −1.515 ± 0.06892
pull
Entries 85
Mean 228.3
Std Dev 0
pull1D
Entries 85
Mean 0.00891
Std Dev 0.9099

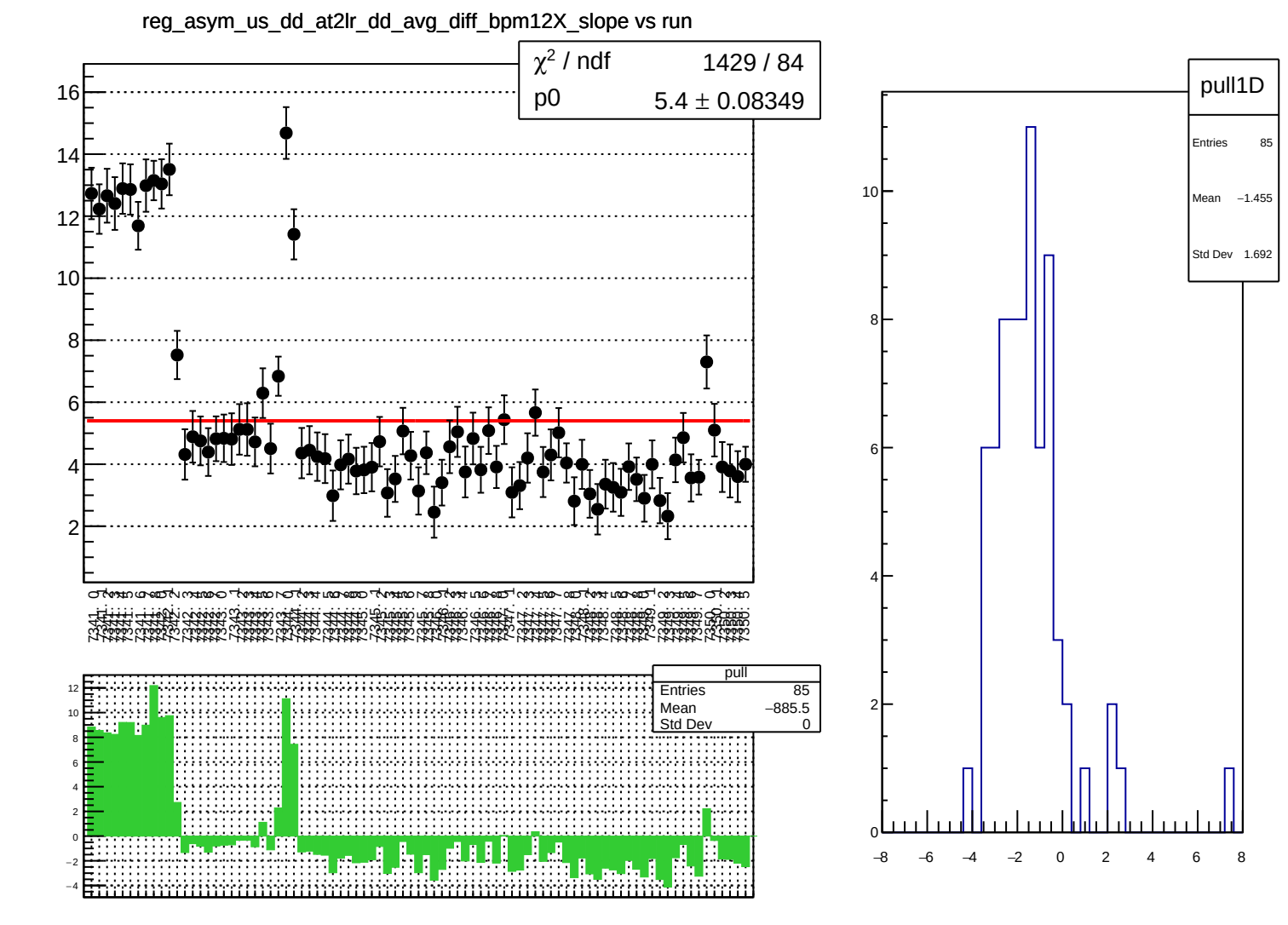

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 195 / 84
p0 −46.83 ± 1.929
pull
Entries 85
Mean −39.68
Std Dev 0
pull1D
Entries 85
Mean 0.1876
Std Dev 1.503

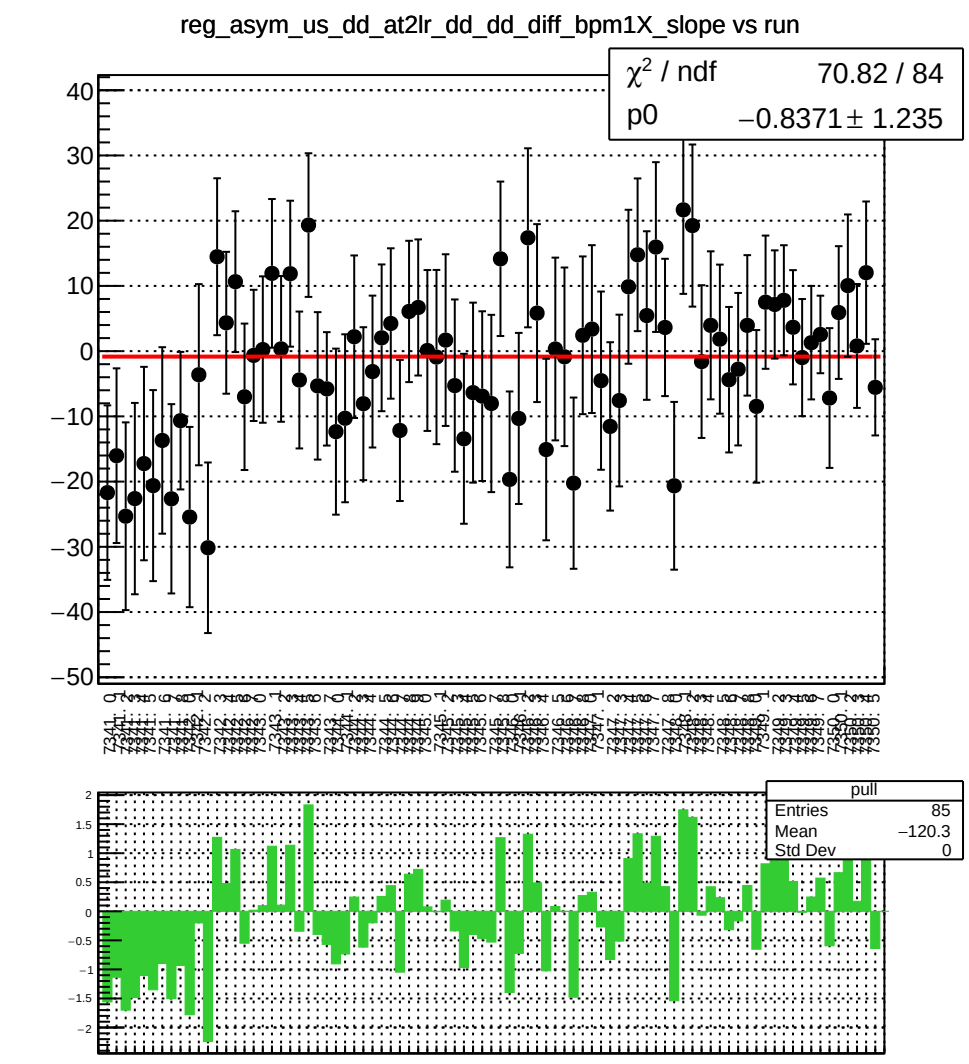

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.44 / 84
p0 27.07 ± 1.721
pull
Entries 85
Mean −1505
Std Dev 0

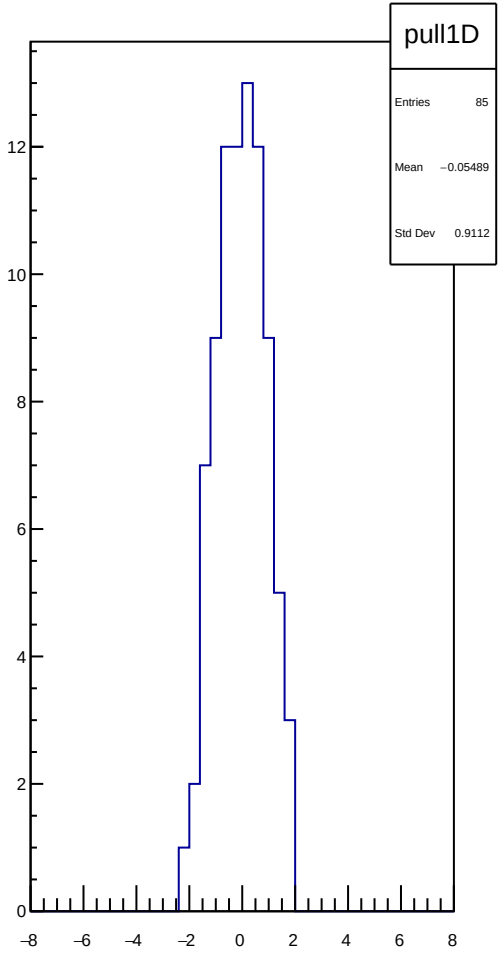

pull1D
Entries 85
Mean −0.006881
Std Dev 0.9421

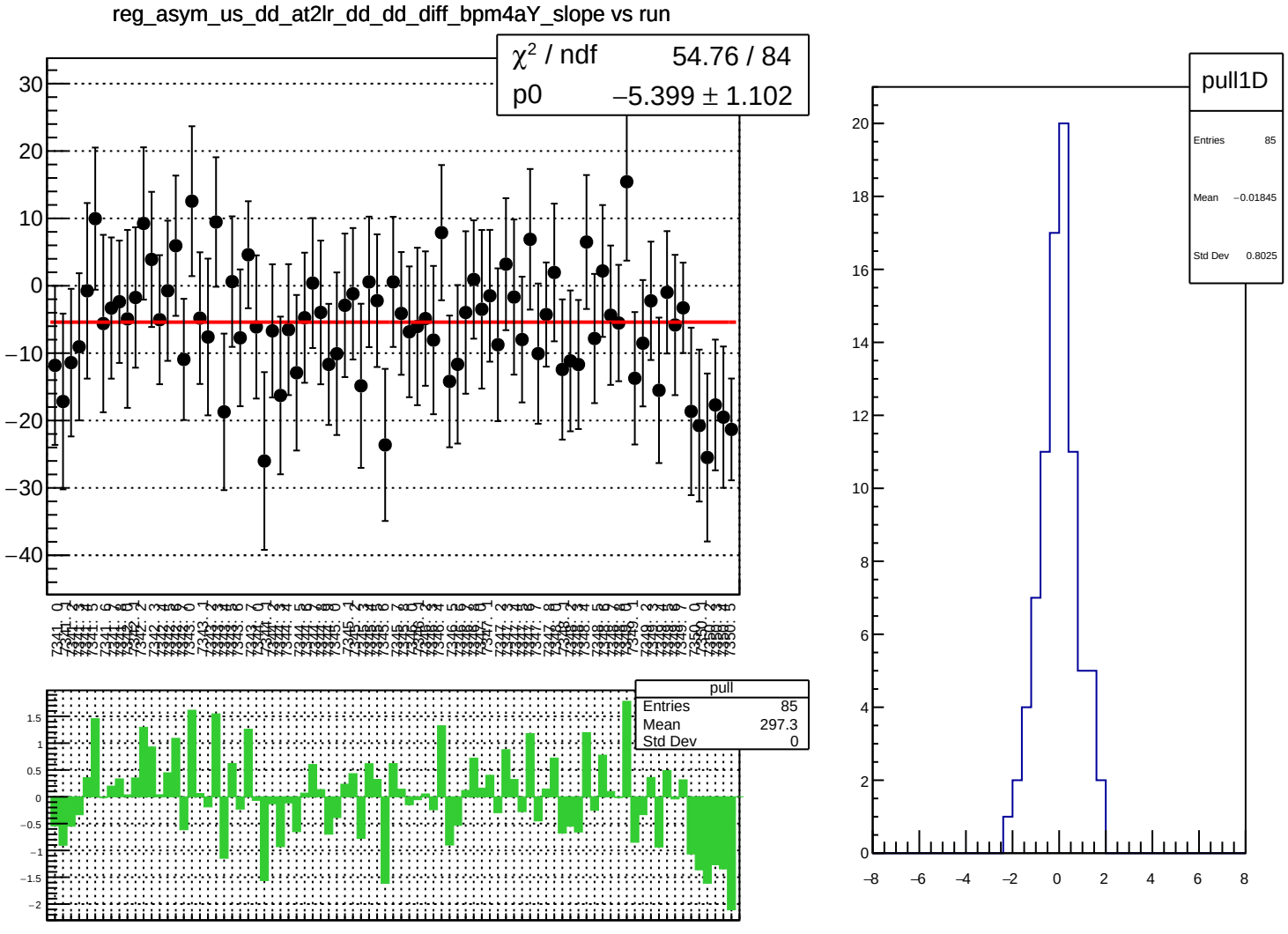

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 189.3 / 84
p0 −90.1 ± 1.898
pull
Entries 85
Mean −33.58
Std Dev 0
pull1D
Entries 85
Mean −0.1944
Std Dev 1.48

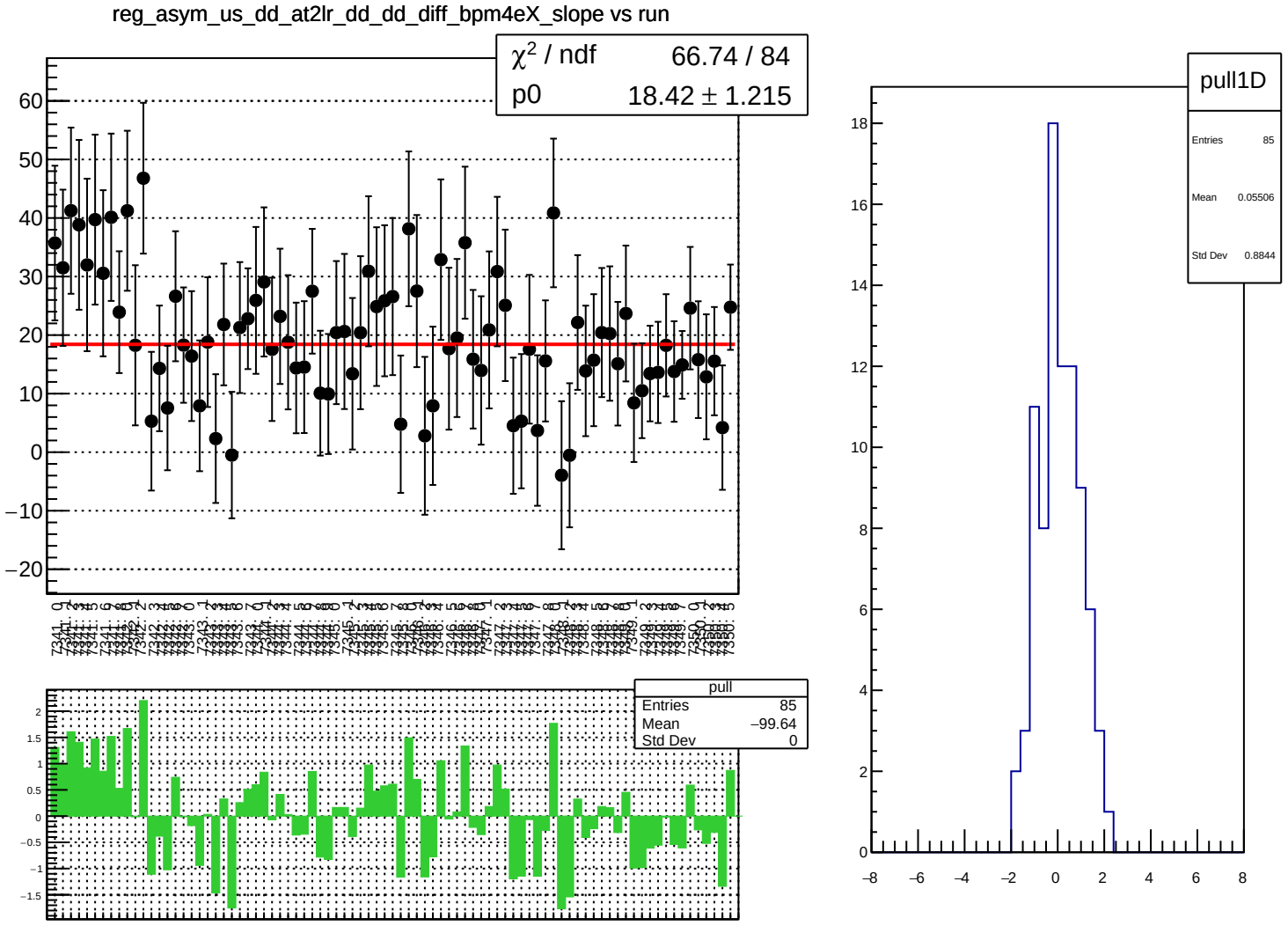

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.52 / 84
p0 −30.78 ± 1.874
pull
Entries 85
Mean −583.9
Std Dev 0
pull1D
Entries 85
Mean 0.01583
Std Dev 0.9549

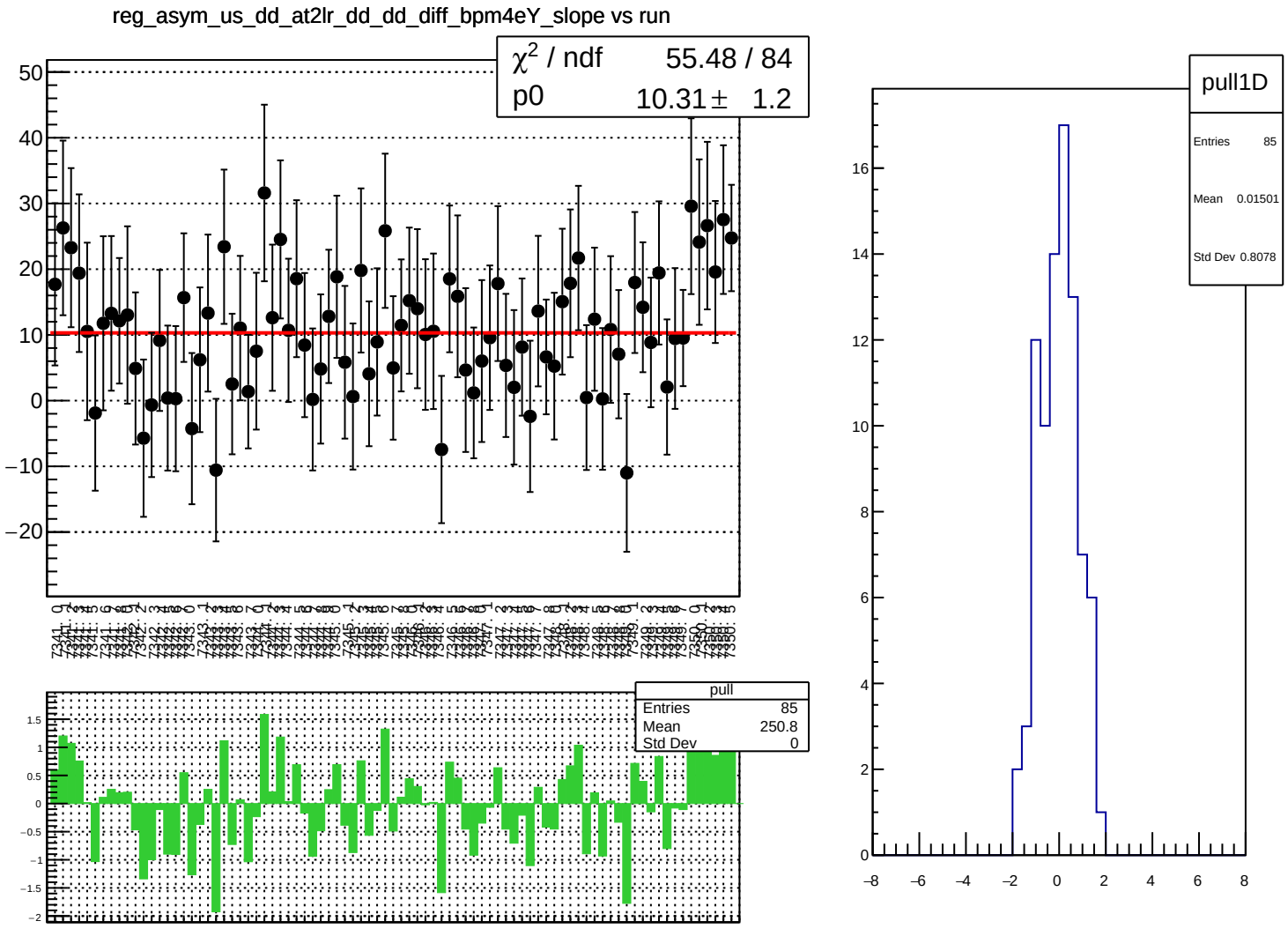

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 1429 / 84
p0 5.4 ± 0.08349
pull
Entries 85
Mean −885.5
Std Dev 0
pull1D
Entries 85
Mean −1.455
Std Dev 1.692

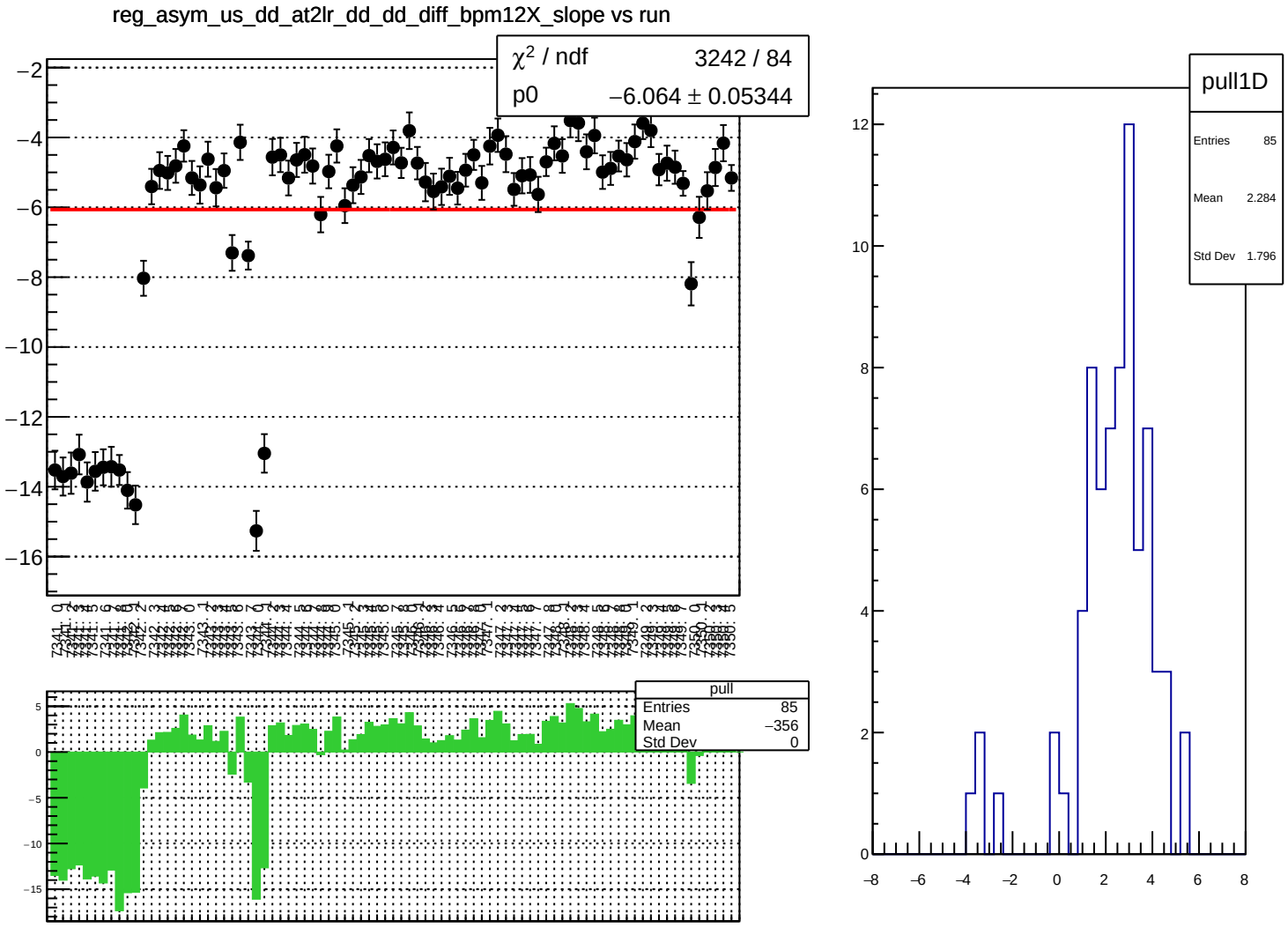

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 70.82 / 84
p0 −0.8371 ± 1.235
pull
Entries 85
Mean −120.3
Std Dev 0

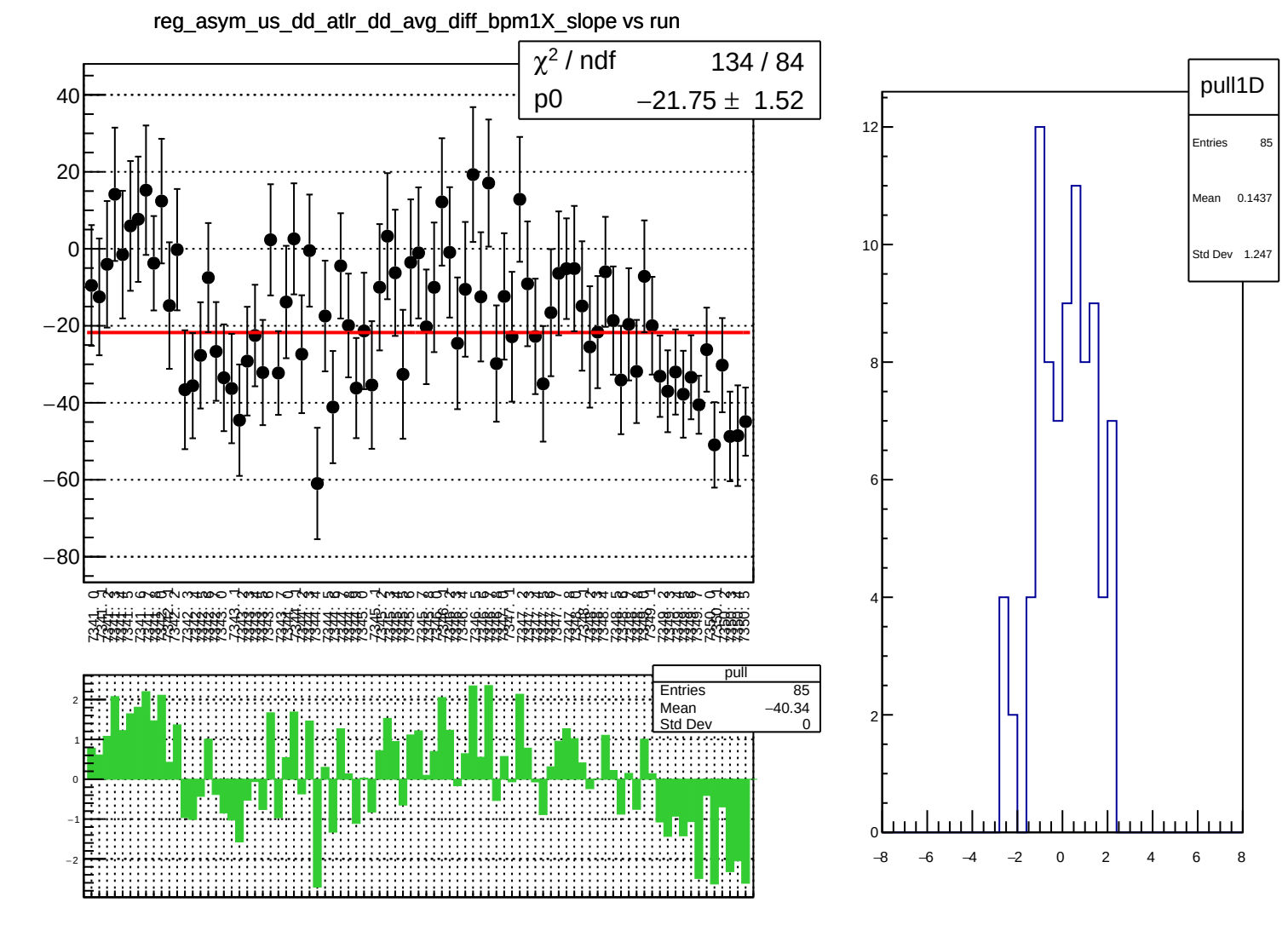

pull1D
Entries 85
Mean −0.05489
Std Dev 0.9112

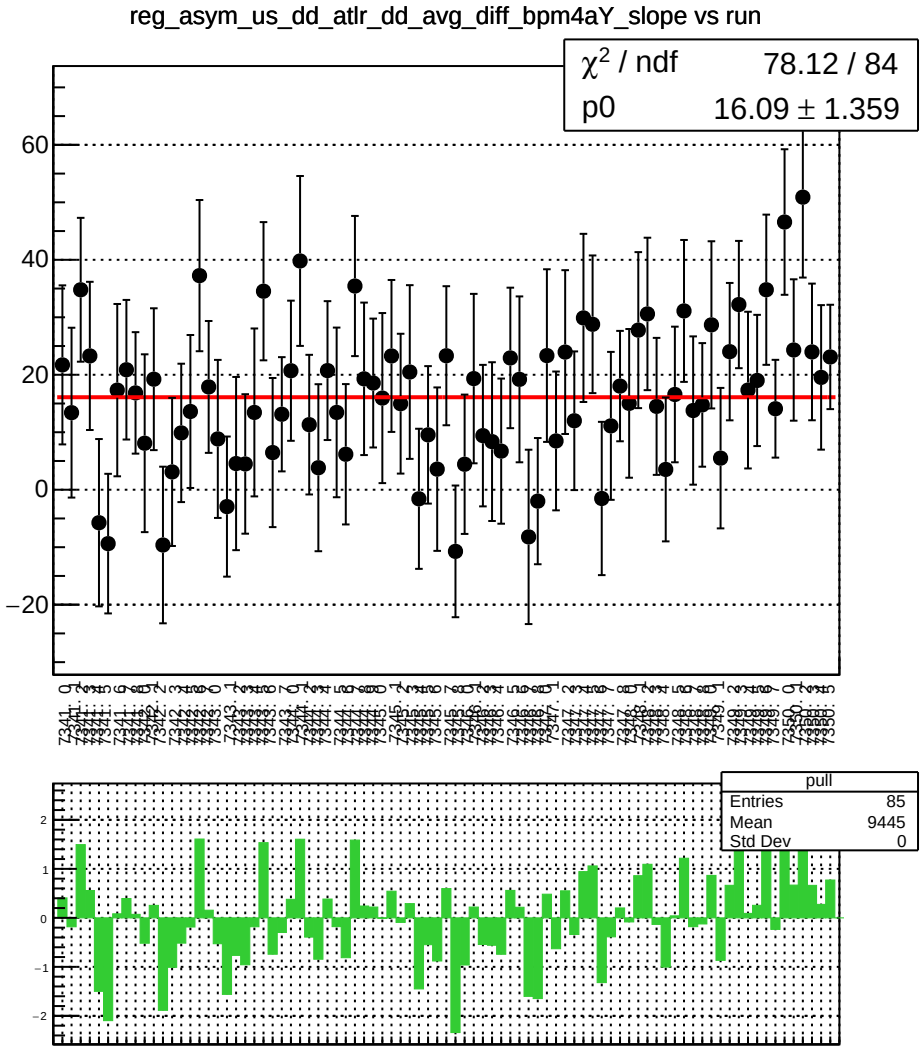

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.76 / 84
p0 −5.399 ± 1.102
pull
Entries 85
Mean 297.3
Std Dev 0
pull1D
Entries 85
Mean −0.01845
Std Dev 0.8025

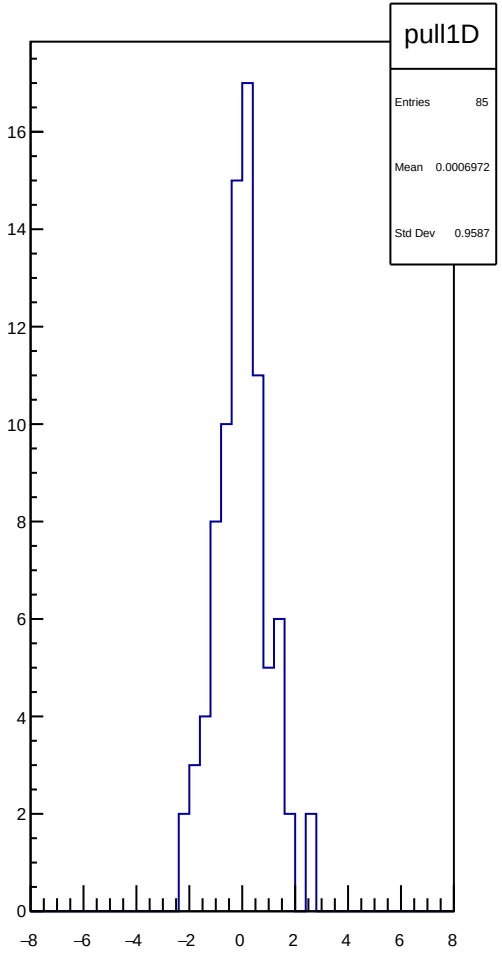

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 66.74 / 84
p0 18.42 ± 1.215
pull
Entries 85
Mean −99.64
Std Dev 0
pull1D
Entries 85
Mean 0.05506
Std Dev 0.8844

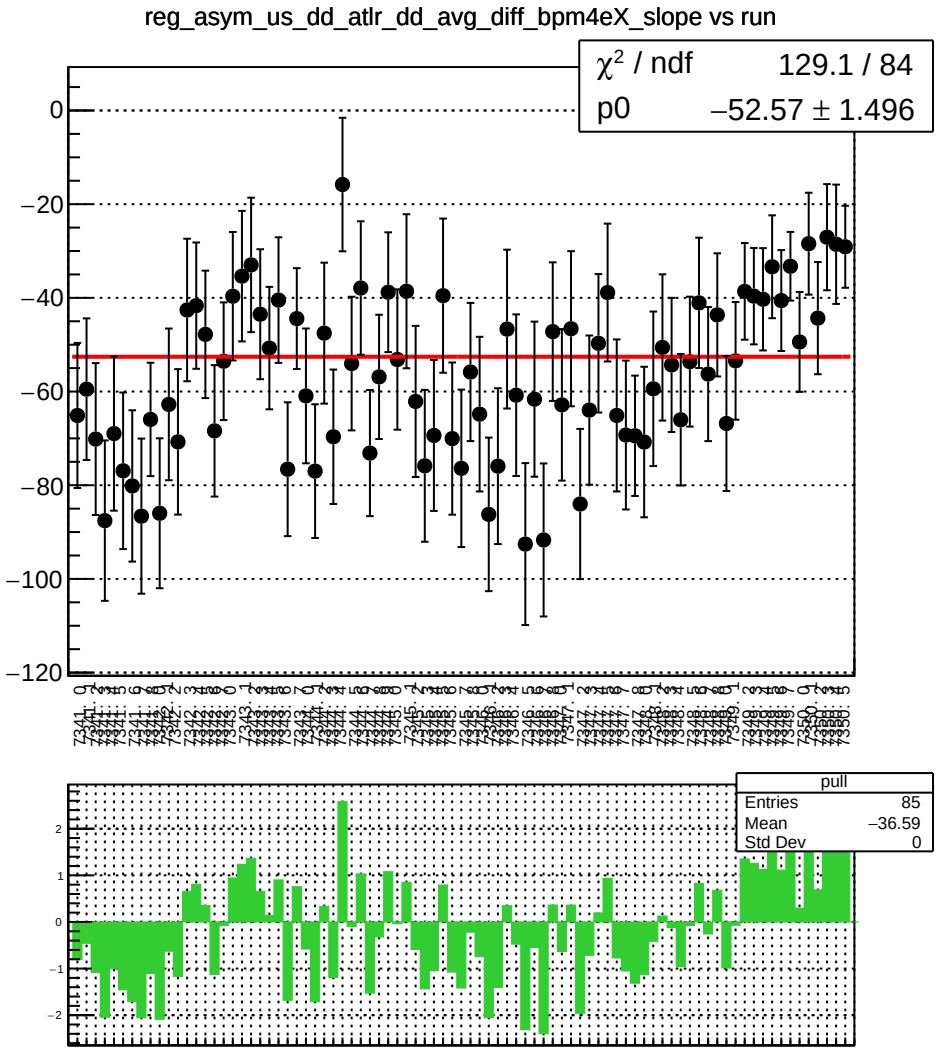

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.48 / 84
p0 10.31 ± 1.2
pull
Entries 85
Mean 250.8
Std Dev 0
pull1D
Entries 85
Mean 0.01501
Std Dev 0.8078

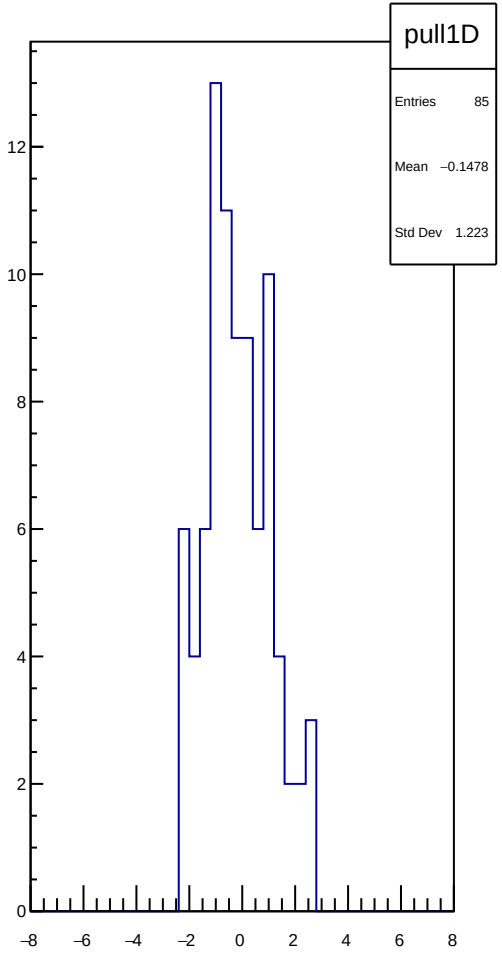

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 3242 / 84
p0 −6.064 ± 0.05344
pull
Entries 85
Mean −356
Std Dev 0
pull1D
Entries 85
Mean 2.284
Std Dev 1.796

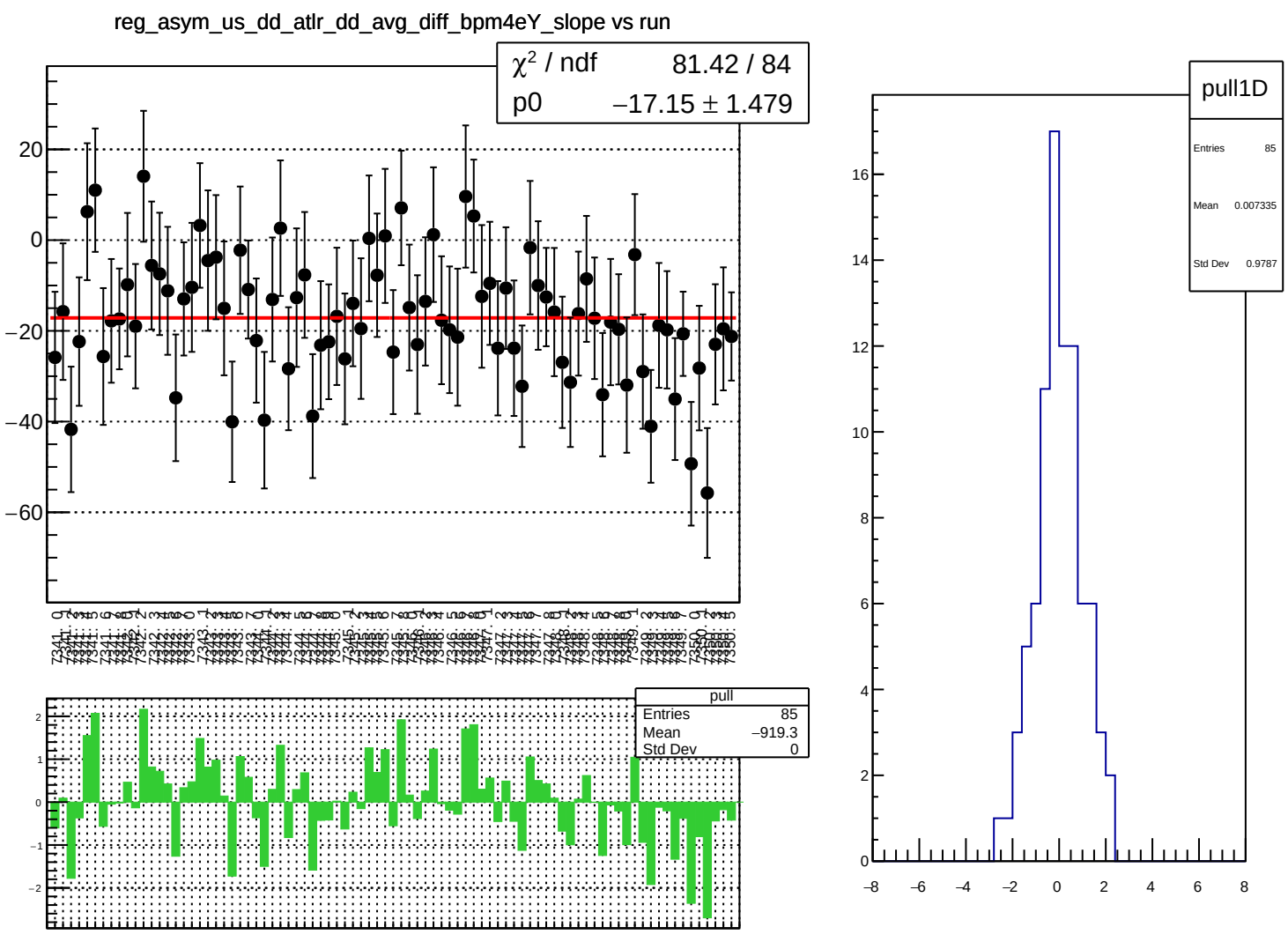

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 134 / 84
p0 −21.75 ± 1.52
pull
Entries 85
Mean −40.34
Std Dev 0
pull1D
Entries 85
Mean 0.1437
Std Dev 1.247

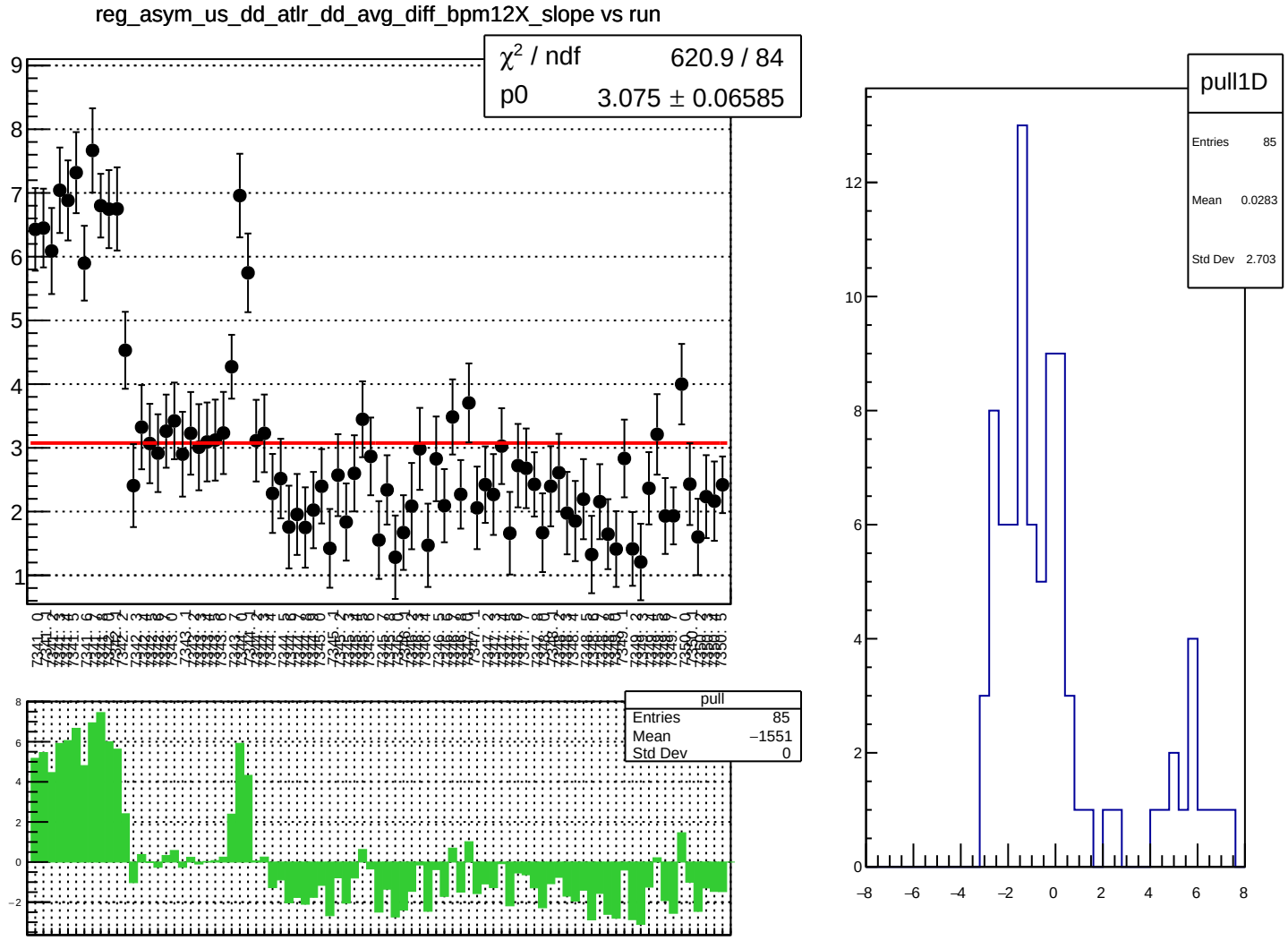

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.12 / 84
p0 16.09 ± 1.359
pull
Entries 85
Mean 9445
Std Dev 0

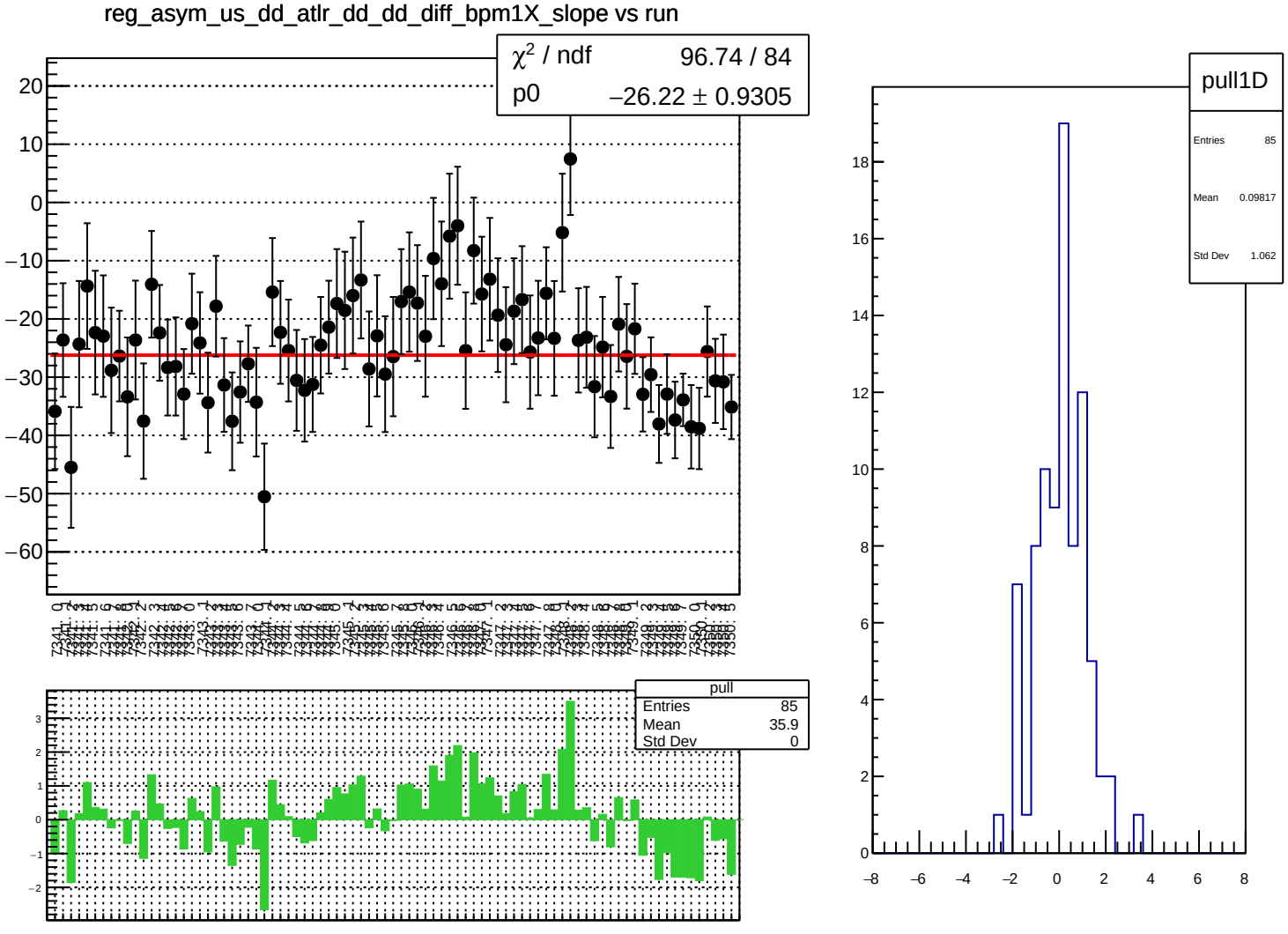

pull1D
Entries 85
Mean 0.0006972
Std Dev 0.9587

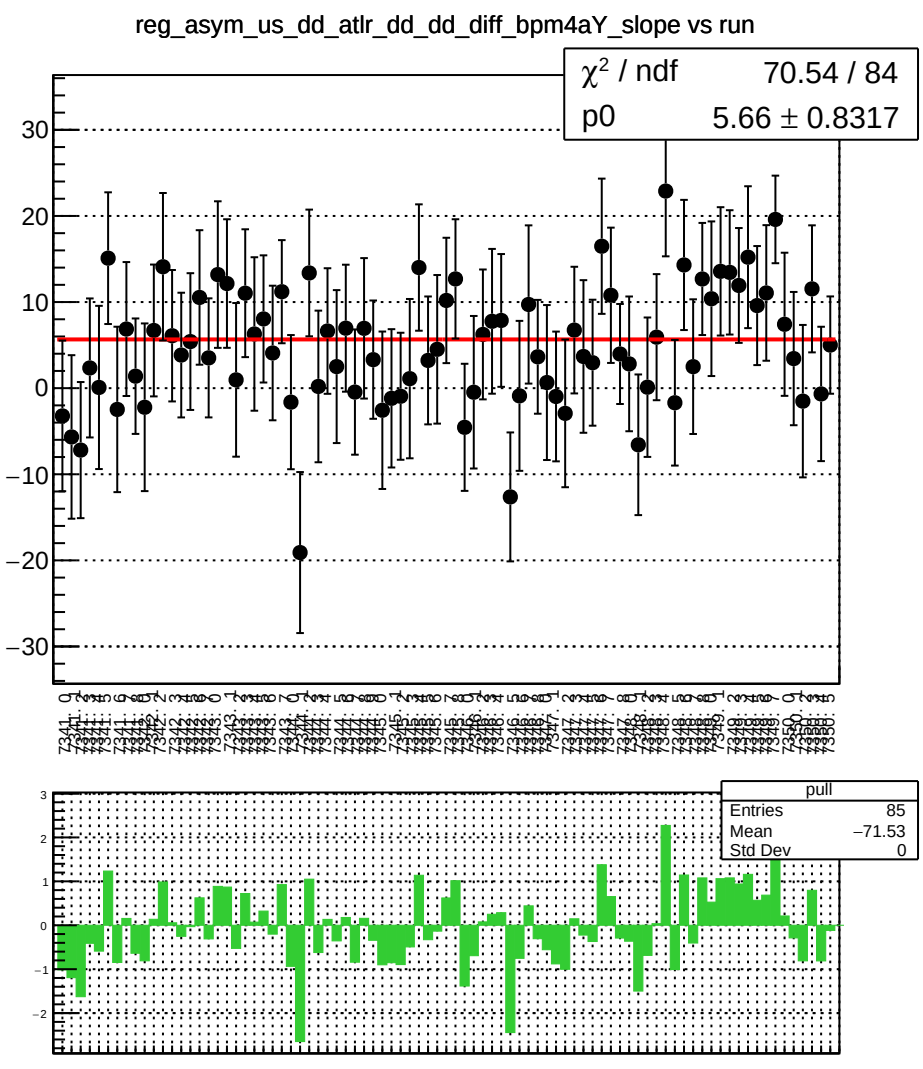

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 129.1 / 84
p0 −52.57 ± 1.496
pull
Entries 85
Mean −36.59
Std Dev 0

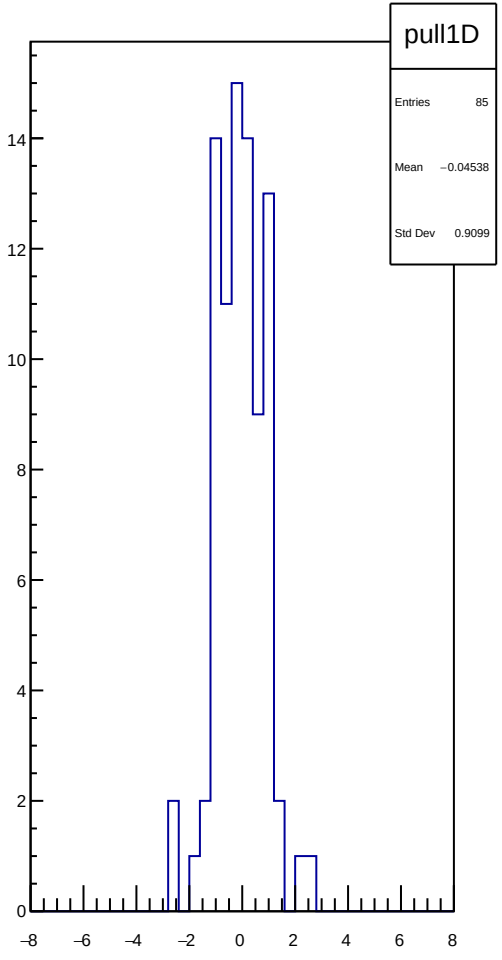

pull1D
Entries 85
Mean −0.1478
Std Dev 1.223

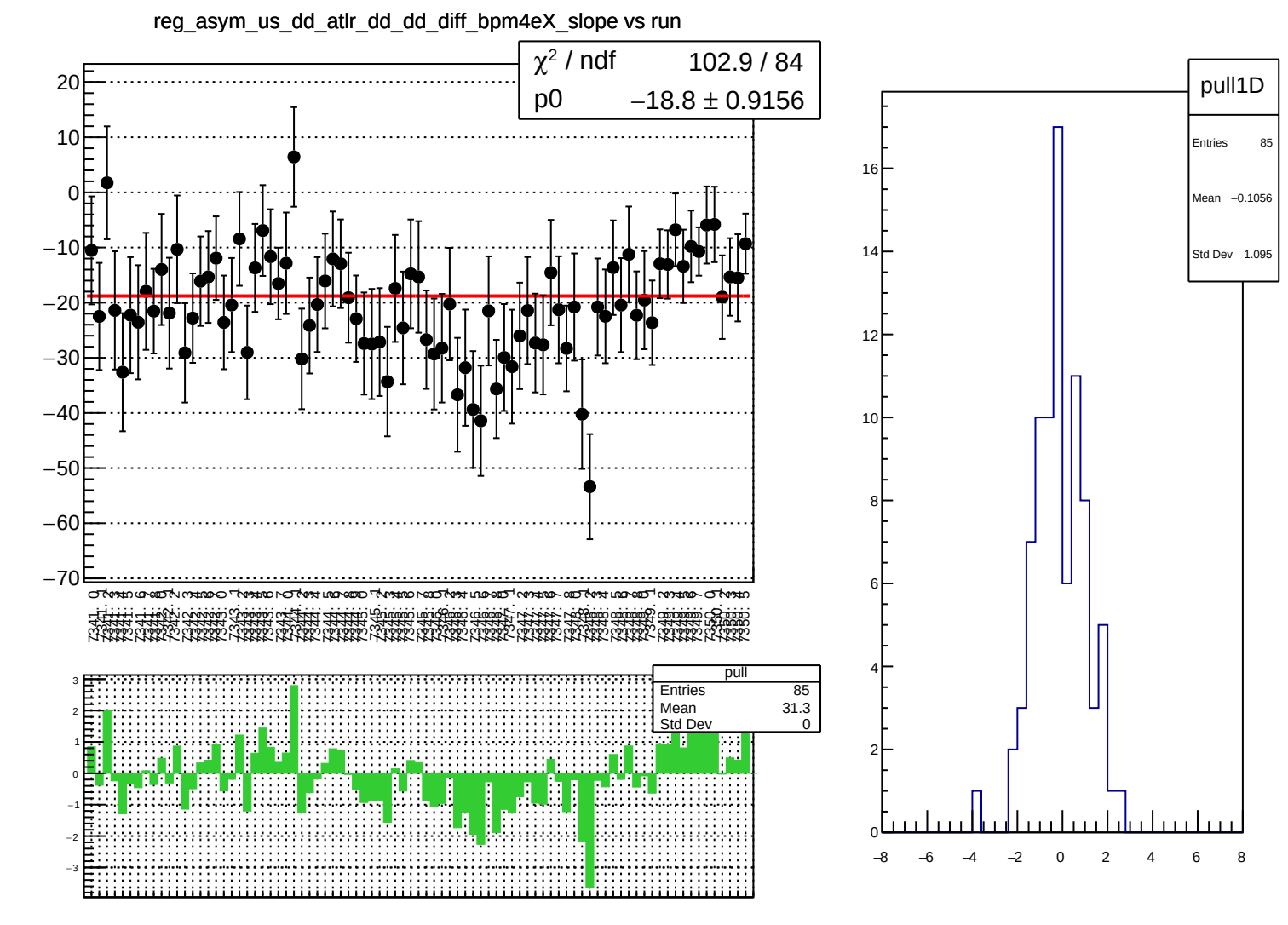

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.42 / 84
p0 −17.15 ± 1.479
pull
Entries 85
Mean −919.3
Std Dev 0
pull1D
Entries 85
Mean 0.007335
Std Dev 0.9787

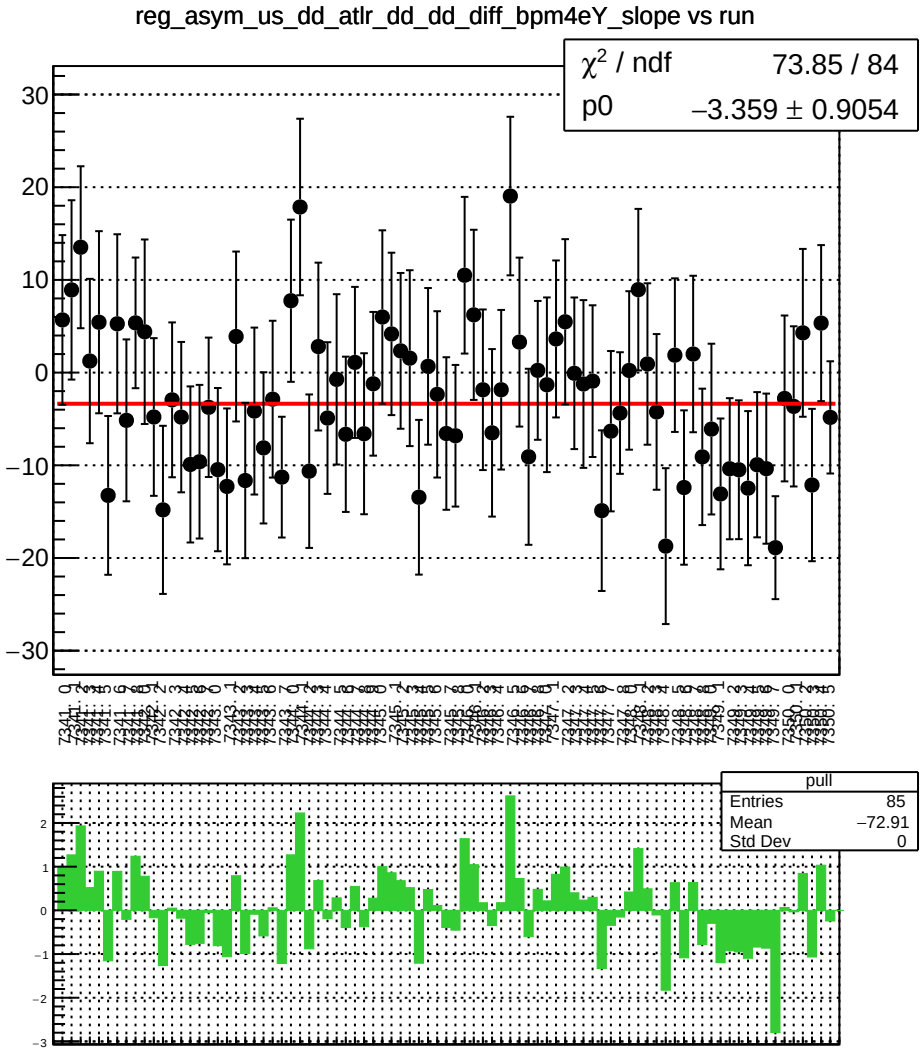

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 620.9 / 84
p0 3.075 ± 0.06585
pull
Entries 85
Mean −1551
Std Dev 0
pull1D
Entries 85
Mean 0.0283
Std Dev 2.703

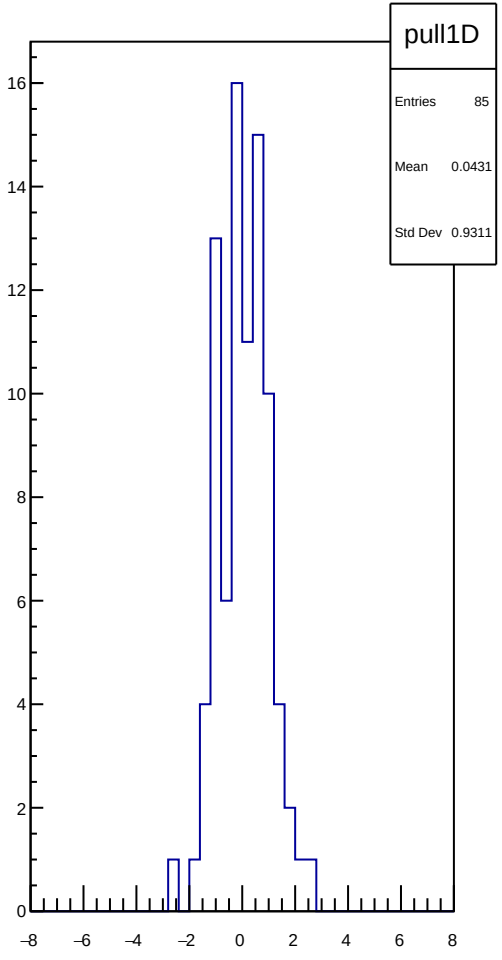

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 96.74 / 84
p0 −26.22 ± 0.9305
pull
Entries 85
Mean 35.9
Std Dev 0
pull1D
Entries 85
Mean 0.09817
Std Dev 1.062

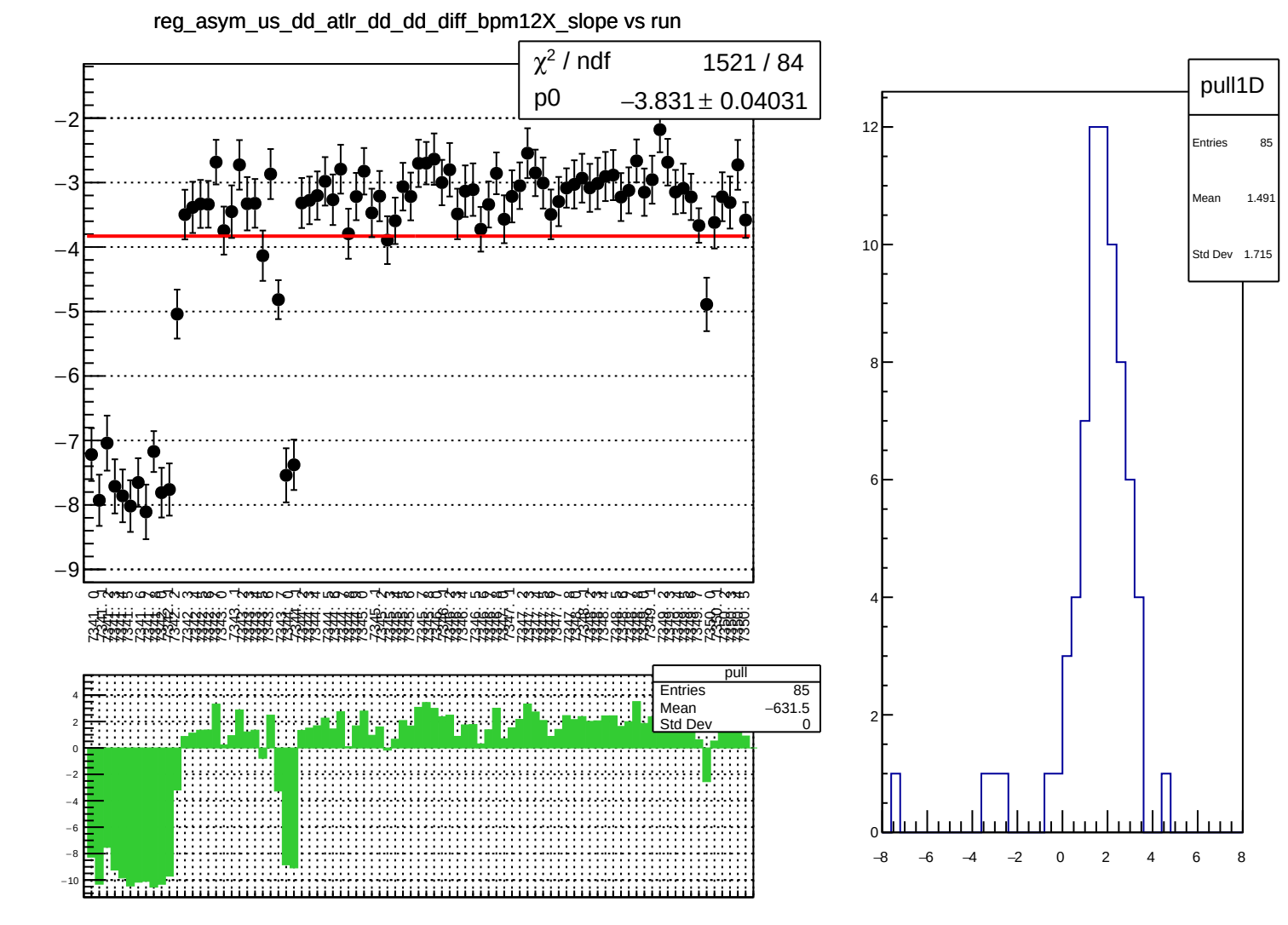

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.54 / 84
p0 5.66 ± 0.8317
pull
Entries 85
Mean −71.53
Std Dev 0

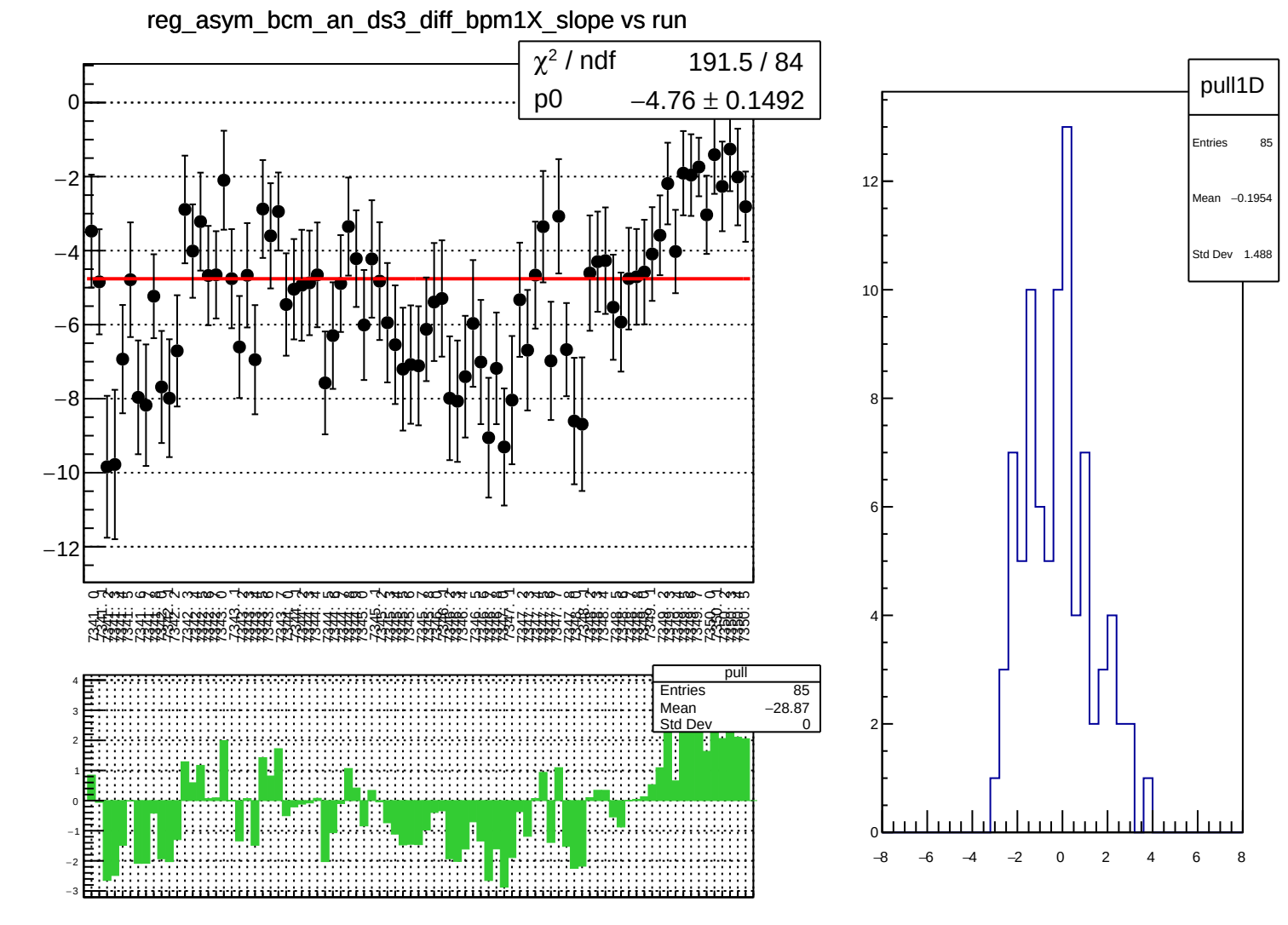

pull1D
Entries 85
Mean −0.04538
Std Dev 0.9099

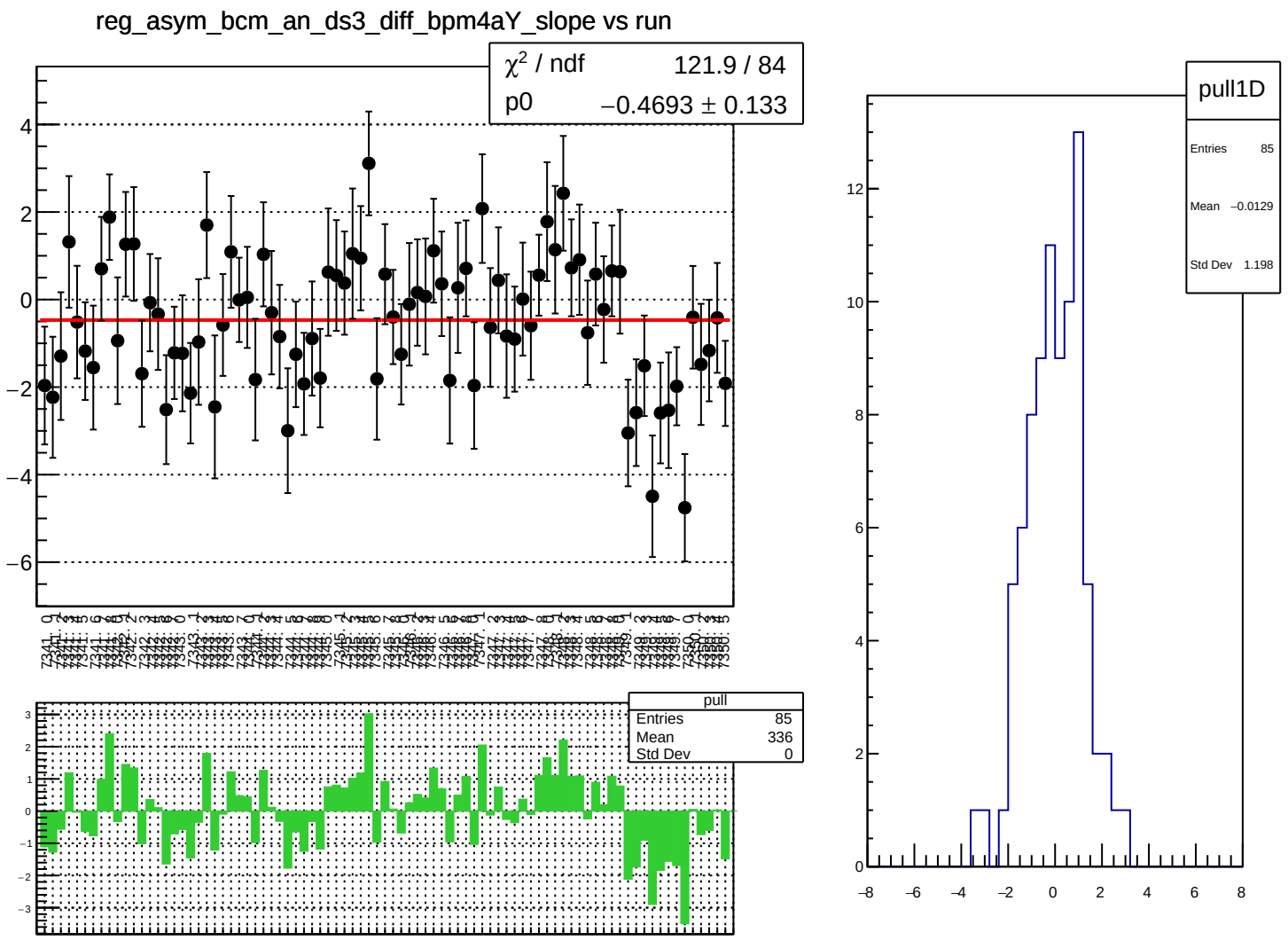

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.9 / 84
p0 −18.8 ± 0.9156
pull
Entries 85
Mean 31.3
Std Dev 0
pull1D
Entries 85
Mean −0.1056
Std Dev 1.095

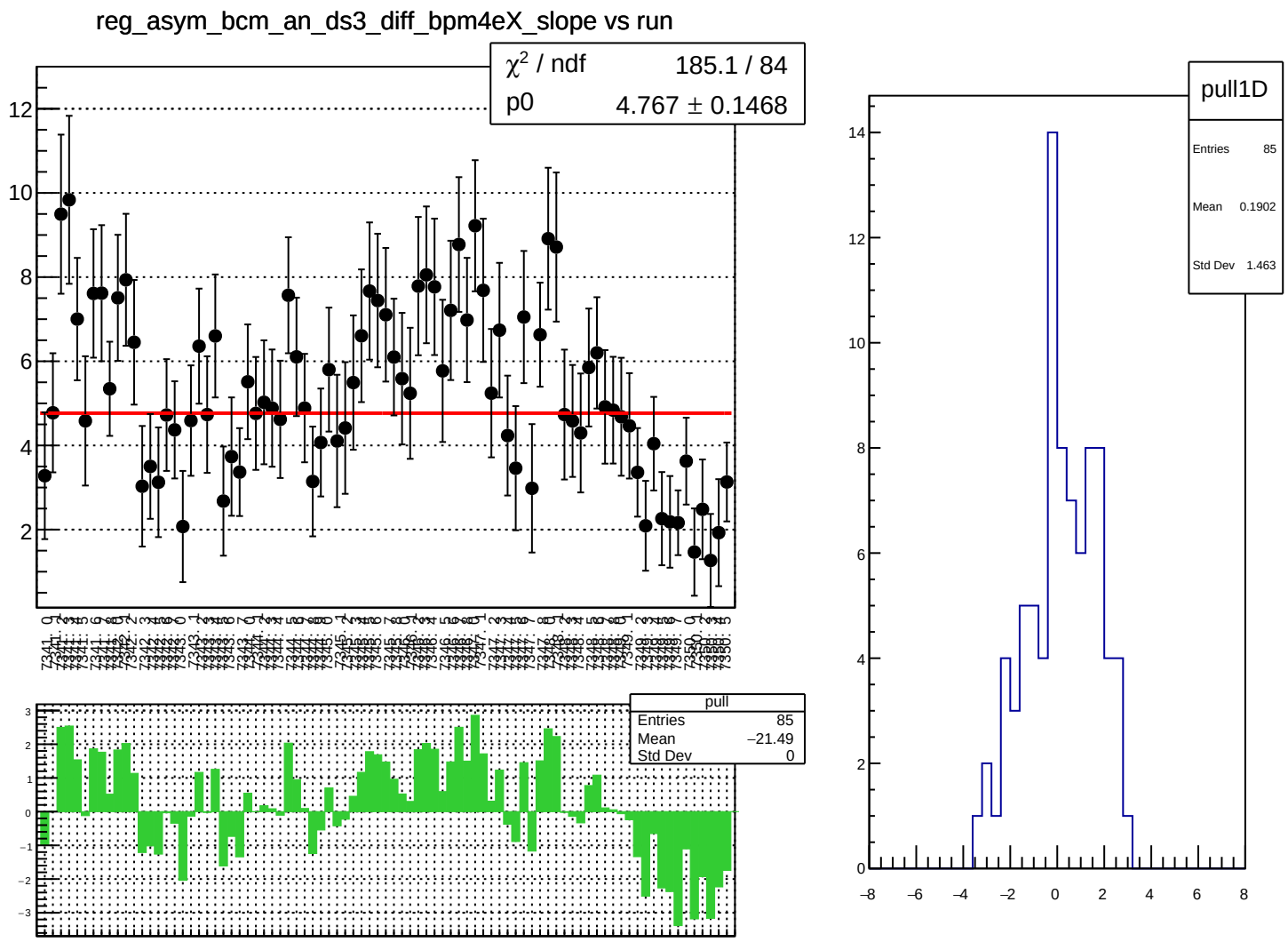

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.85 / 84
p0 −3.359 ± 0.9054
pull
Entries 85
Mean −72.91
Std Dev 0

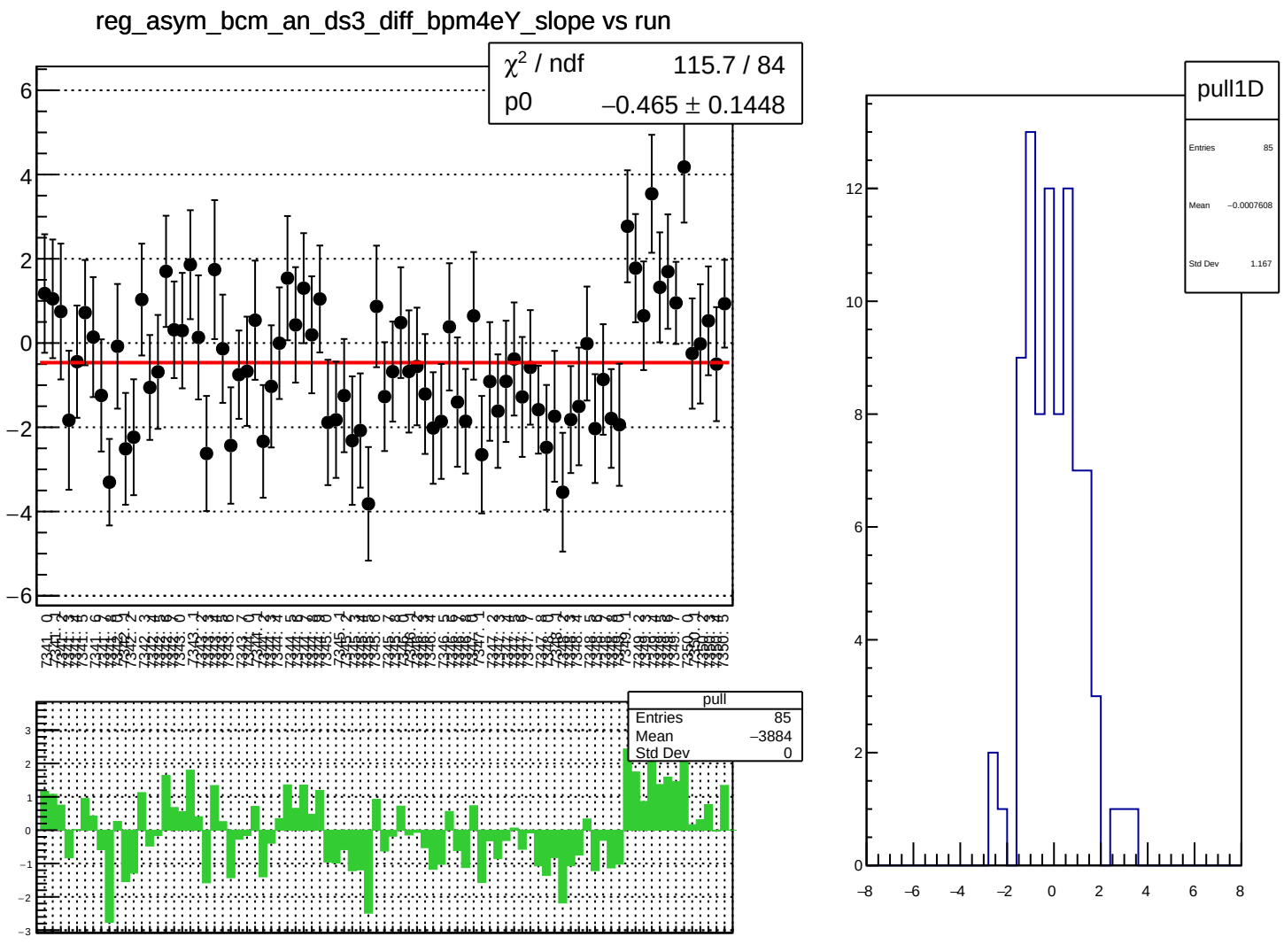

pull1D
Entries 85
Mean 0.0431
Std Dev 0.9311

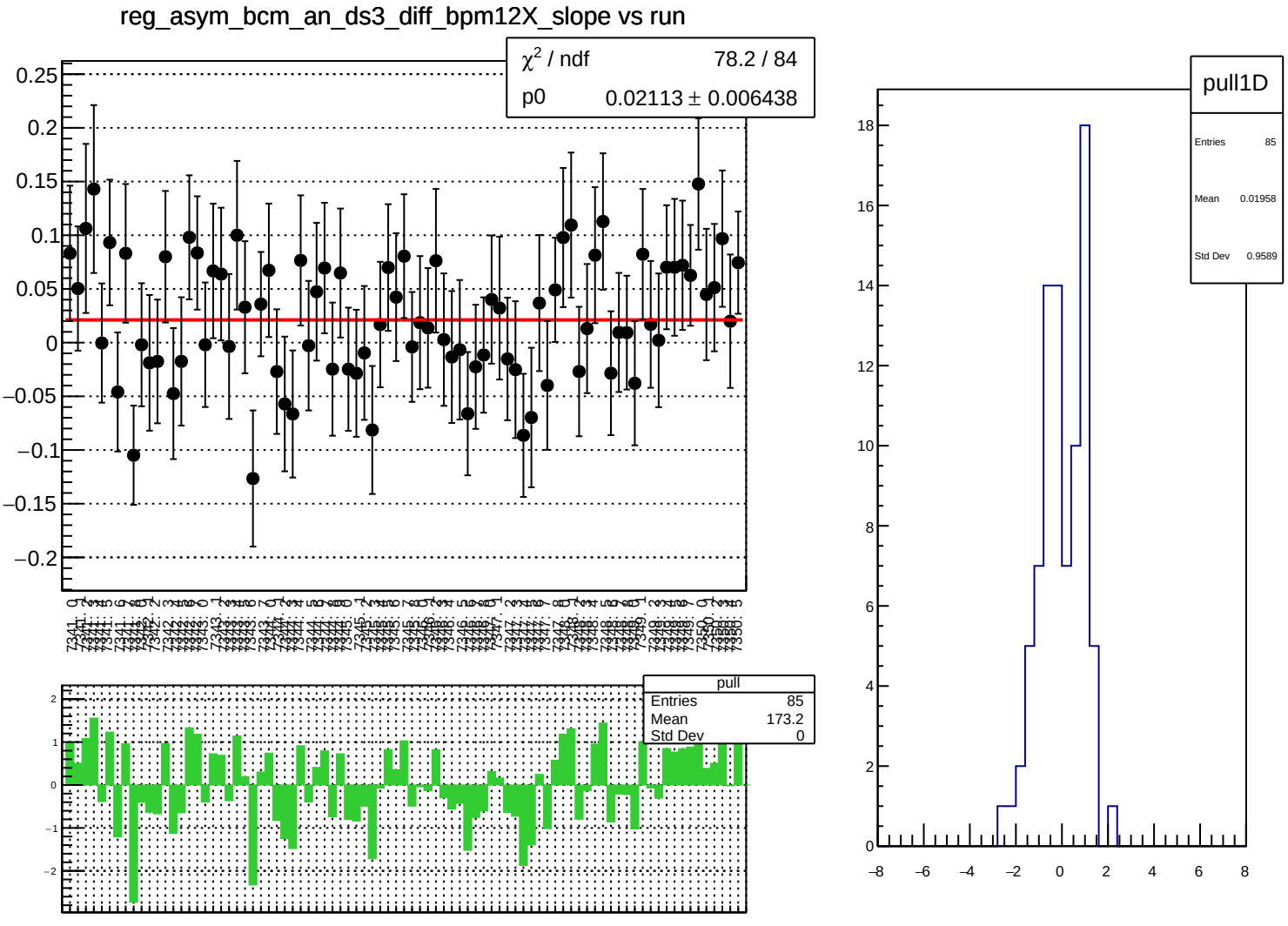

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 1521 / 84
p0 −3.831 ± 0.04031
pull
Entries 85
Mean −631.5
Std Dev 0
pull1D
Entries 85
Mean 1.491
Std Dev 1.715

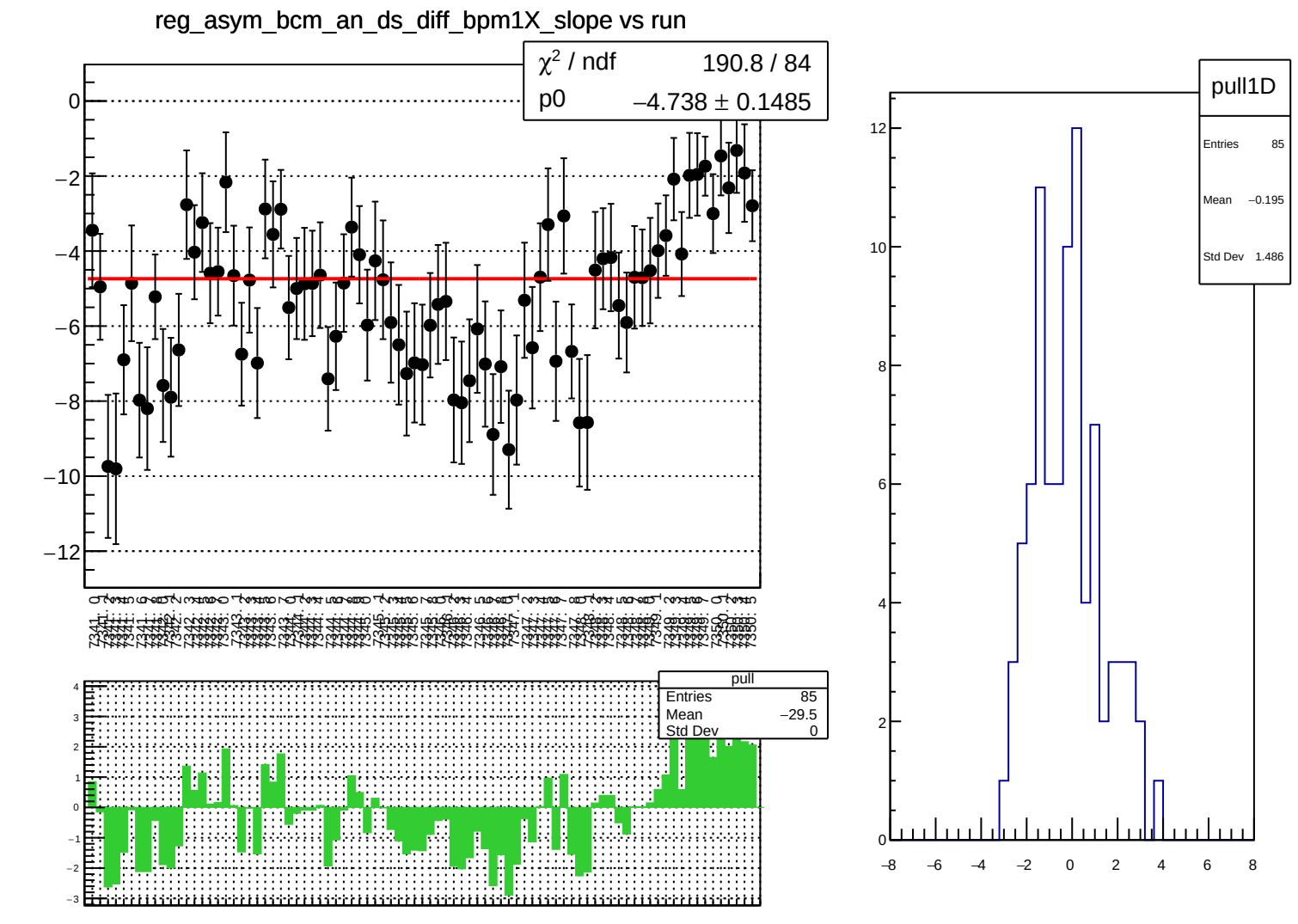

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 191.5 / 84
p0 −4.76 ± 0.1492
pull
Entries 85
Mean −28.87
Std Dev 0
pull1D
Entries 85
Mean −0.1954
Std Dev 1.488

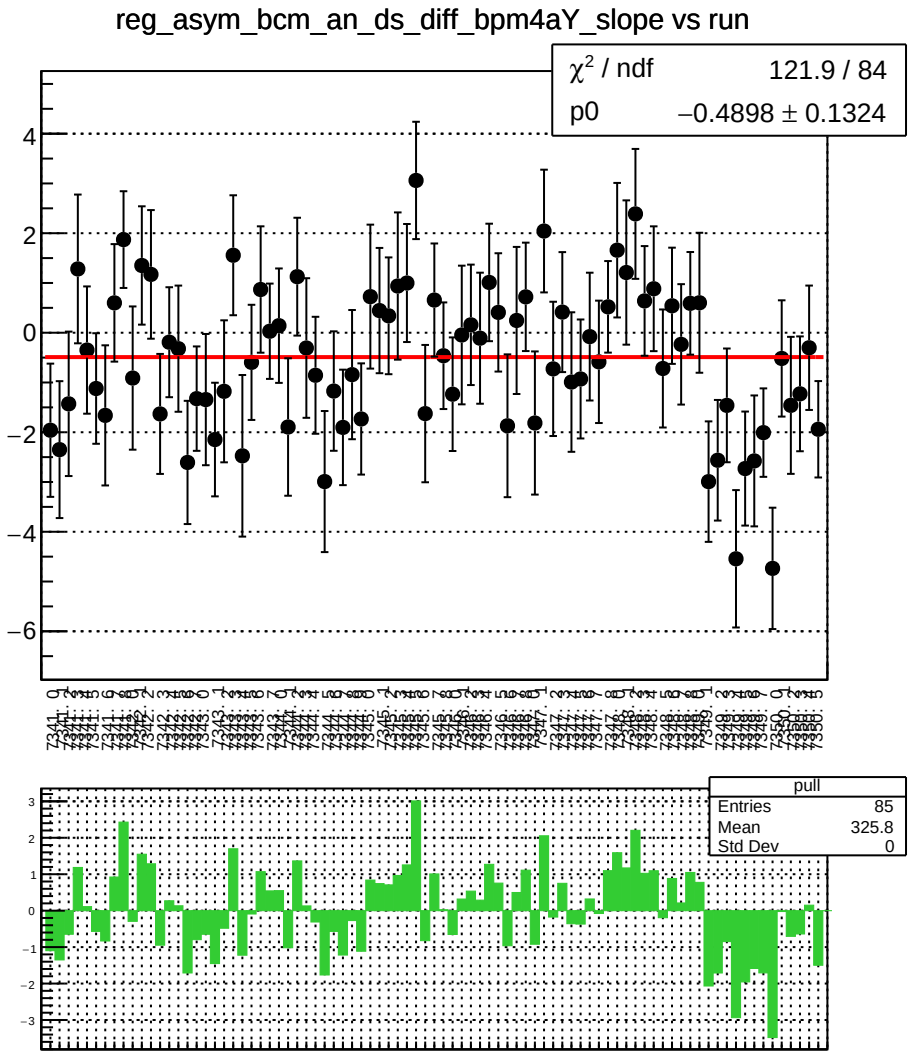

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 121.9 / 84
p0 −0.4693 ± 0.133
pull
Entries 85
Mean 336
Std Dev 0
pull1D
Entries 85
Mean −0.0129
Std Dev 1.198

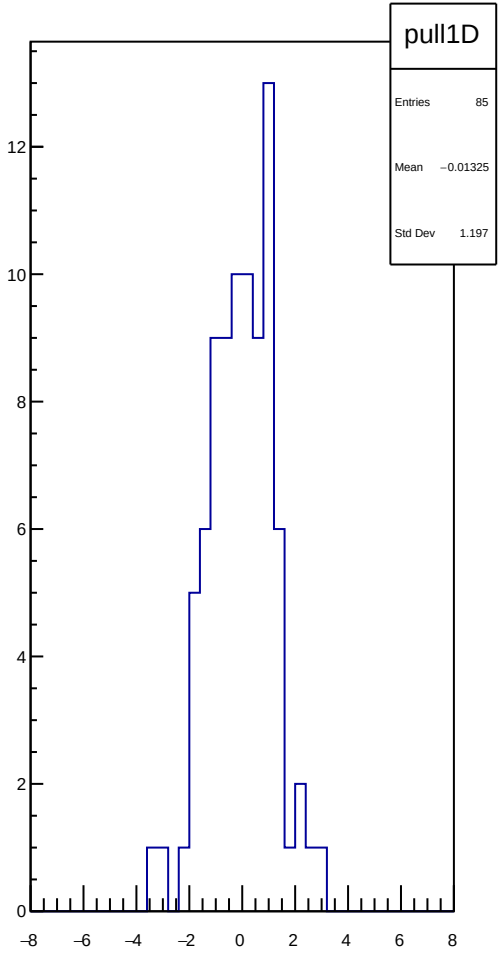

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 185.1 / 84
p0 4.767 ± 0.1468
pull
Entries 85
Mean −21.49
Std Dev 0
pull1D
Entries 85
Mean 0.1902
Std Dev 1.463

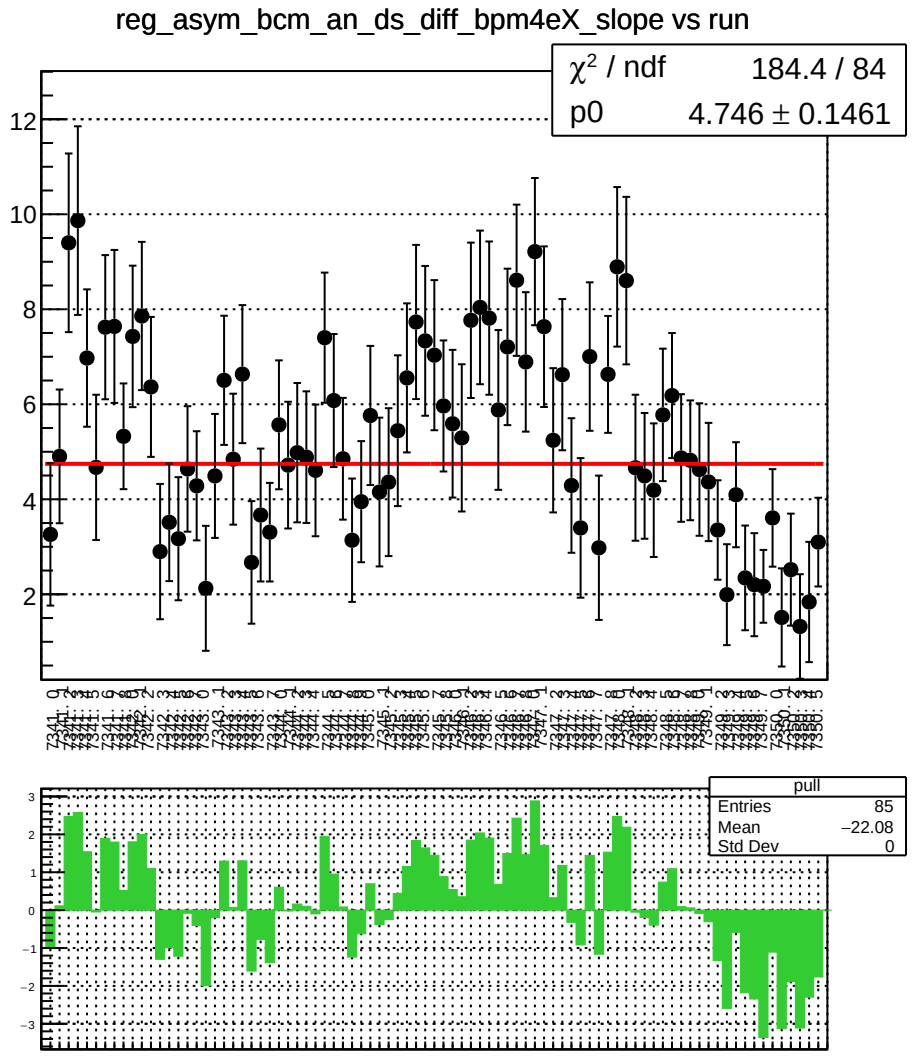

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 115.7 / 84
p0 −0.465 ± 0.1448
pull
Entries 85
Mean −3884
Std Dev 0
pull1D
Entries 85
Mean −0.0007608
Std Dev 1.167

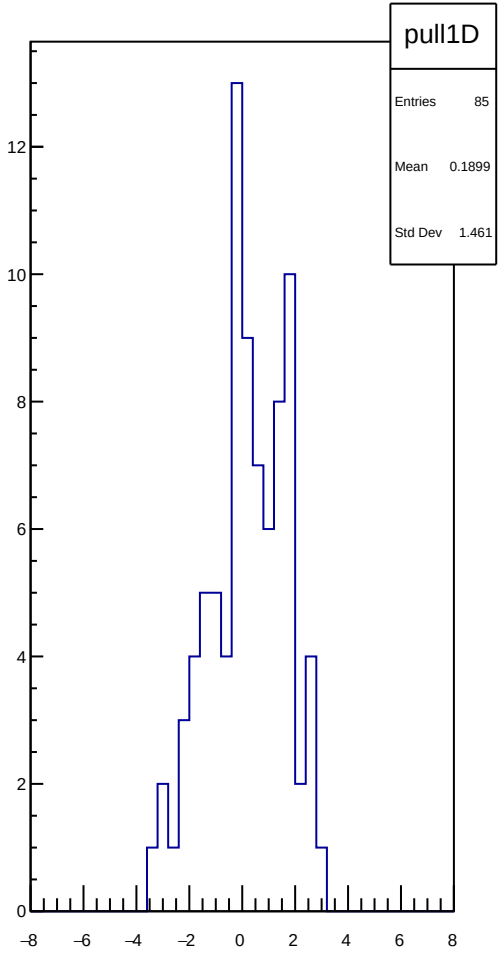

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 78.2 / 84
p0 0.02113 ± 0.006438
pull
Entries 85
Mean 173.2
Std Dev 0
pull1D
Entries 85
Mean 0.01958
Std Dev 0.9589

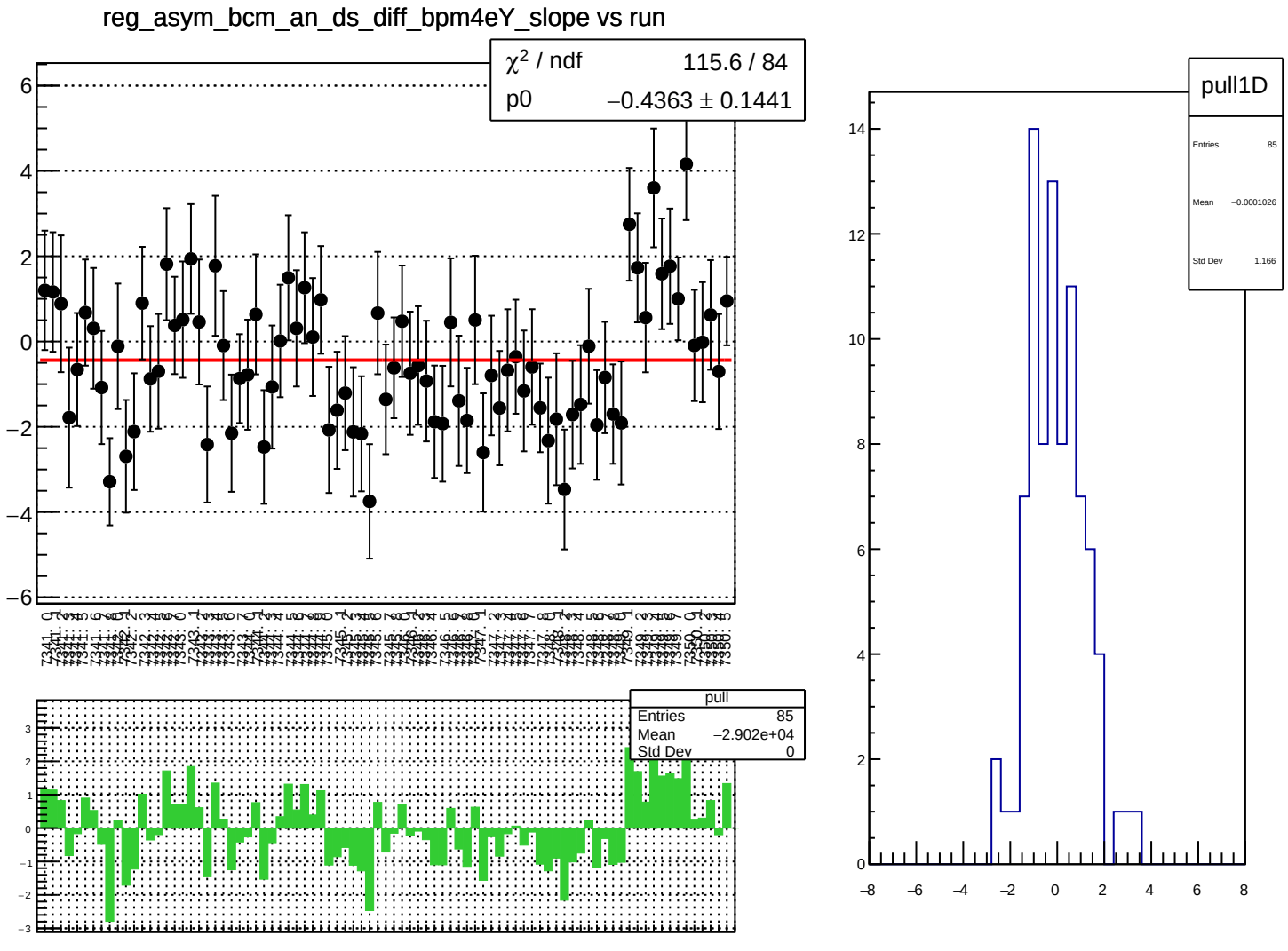

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 190.8 / 84
p0 −4.738 ± 0.1485
pull
Entries 85
Mean −29.5
Std Dev 0
pull1D
Entries 85
Mean −0.195
Std Dev 1.486

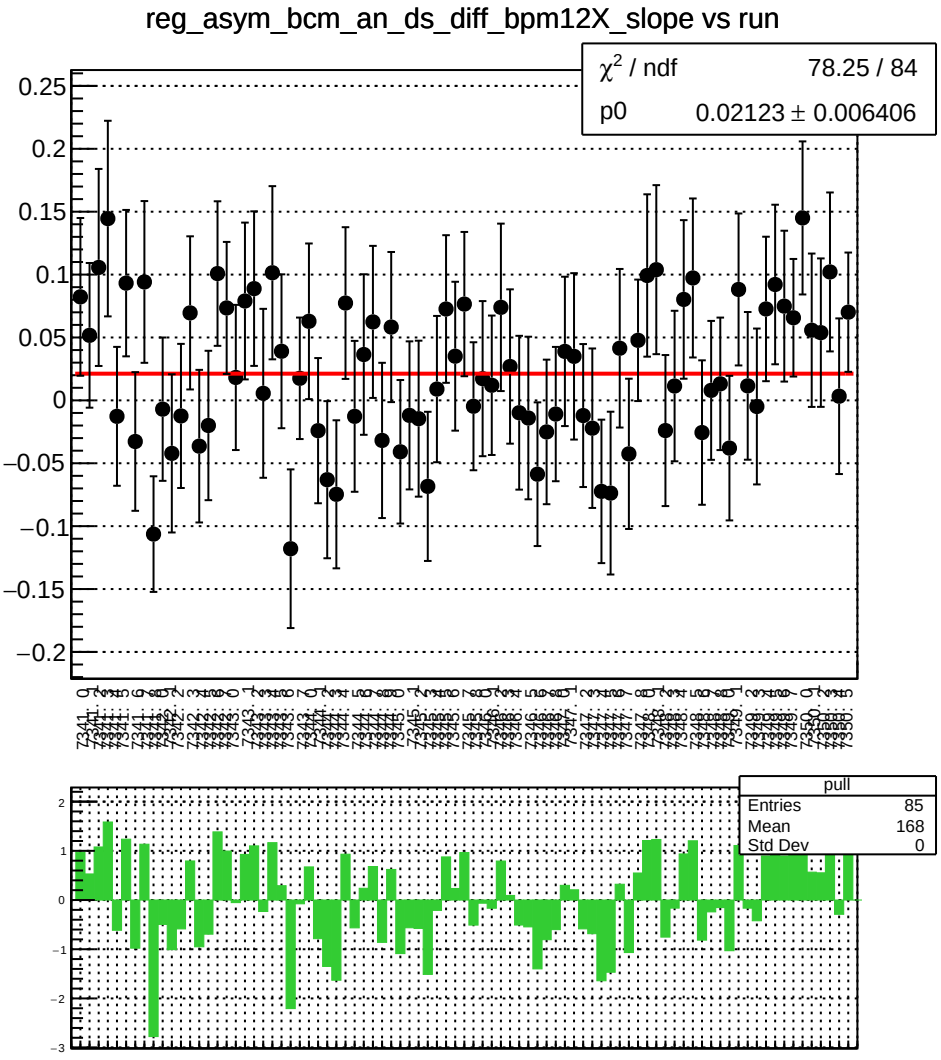

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 121.9 / 84
p0 −0.4898 ± 0.1324
pull
Entries 85
Mean 325.8
Std Dev 0

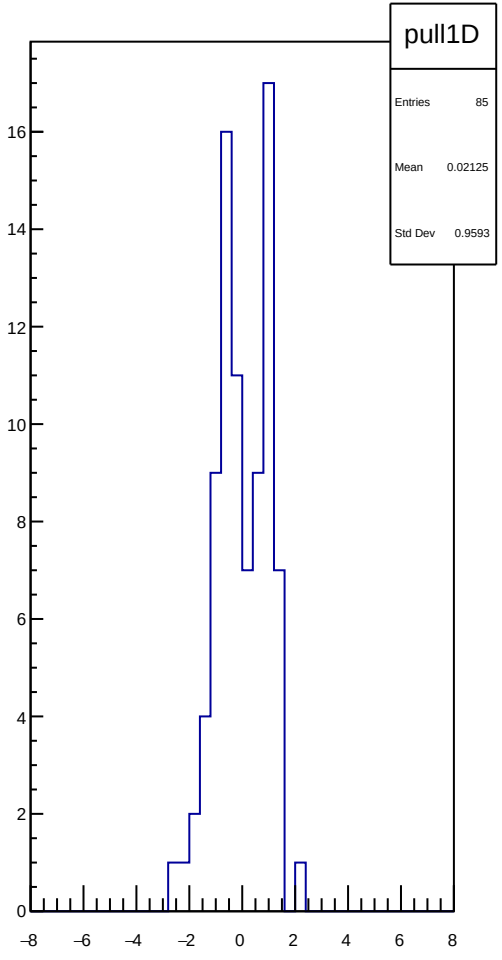

pull1D
Entries 85
Mean −0.01325
Std Dev 1.197

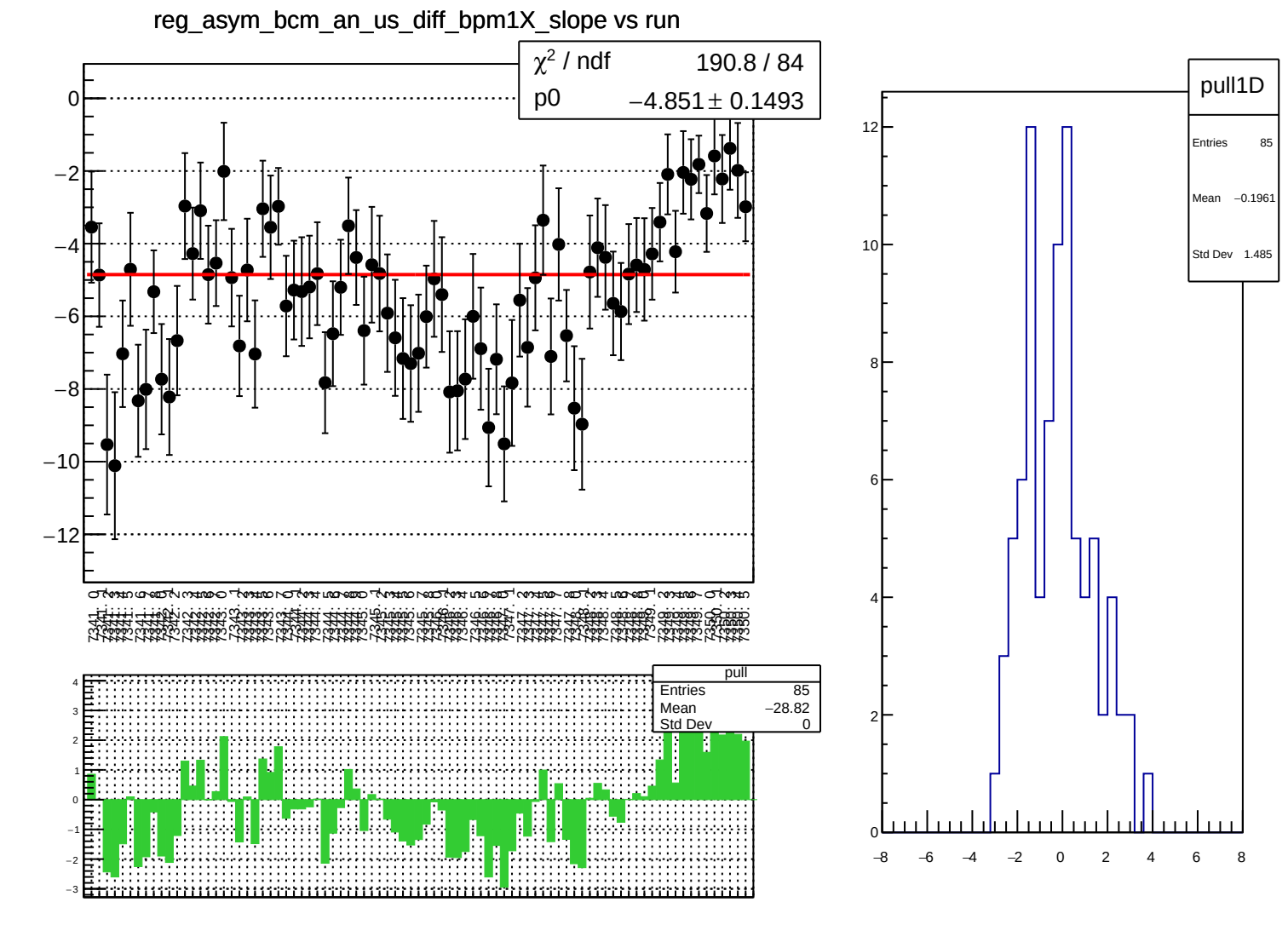

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 184.4 / 84
p0 4.746 ± 0.1461
pull
Entries 85
Mean −22.08
Std Dev 0

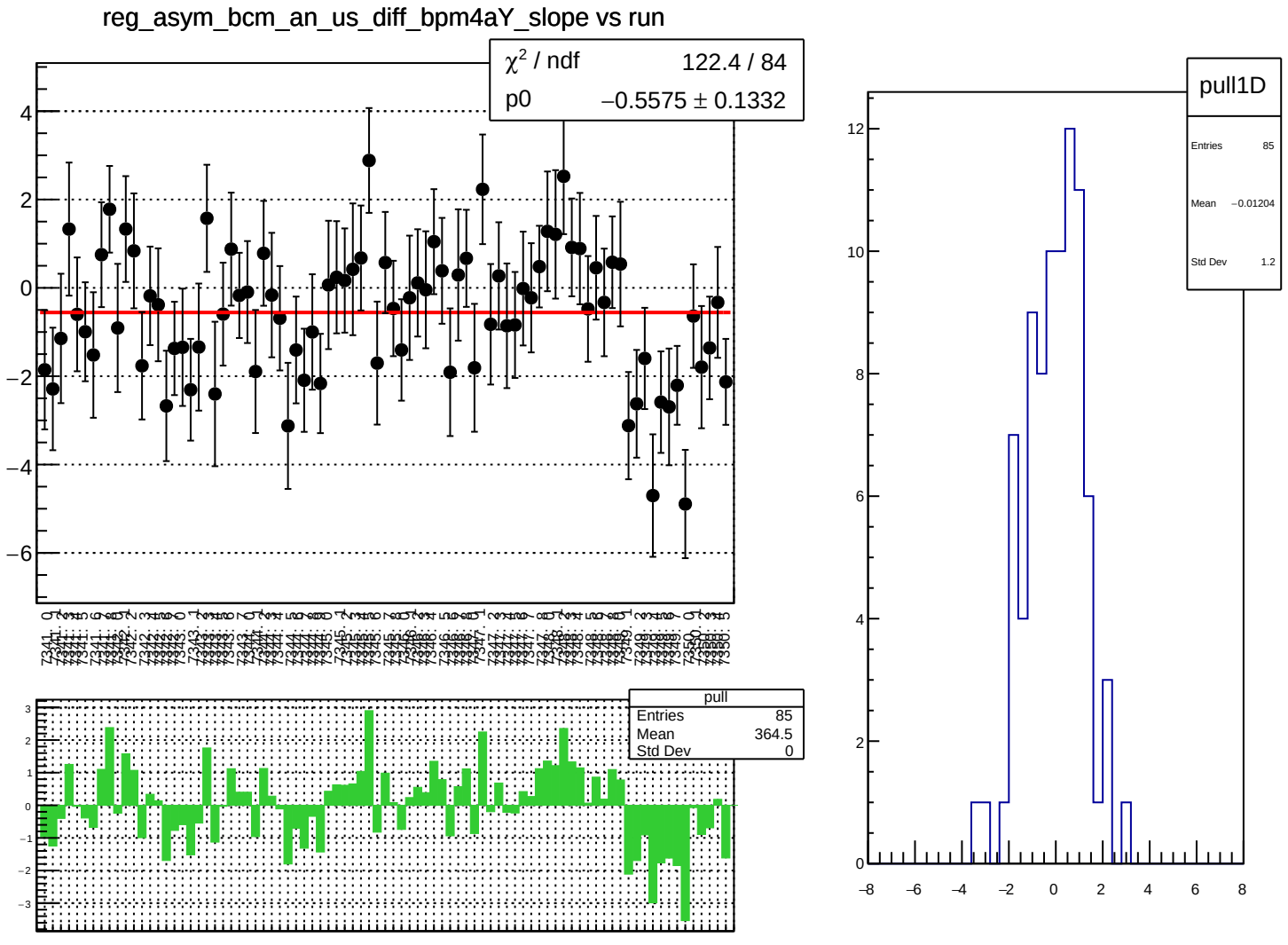

pull1D
Entries 85
Mean 0.1899
Std Dev 1.461

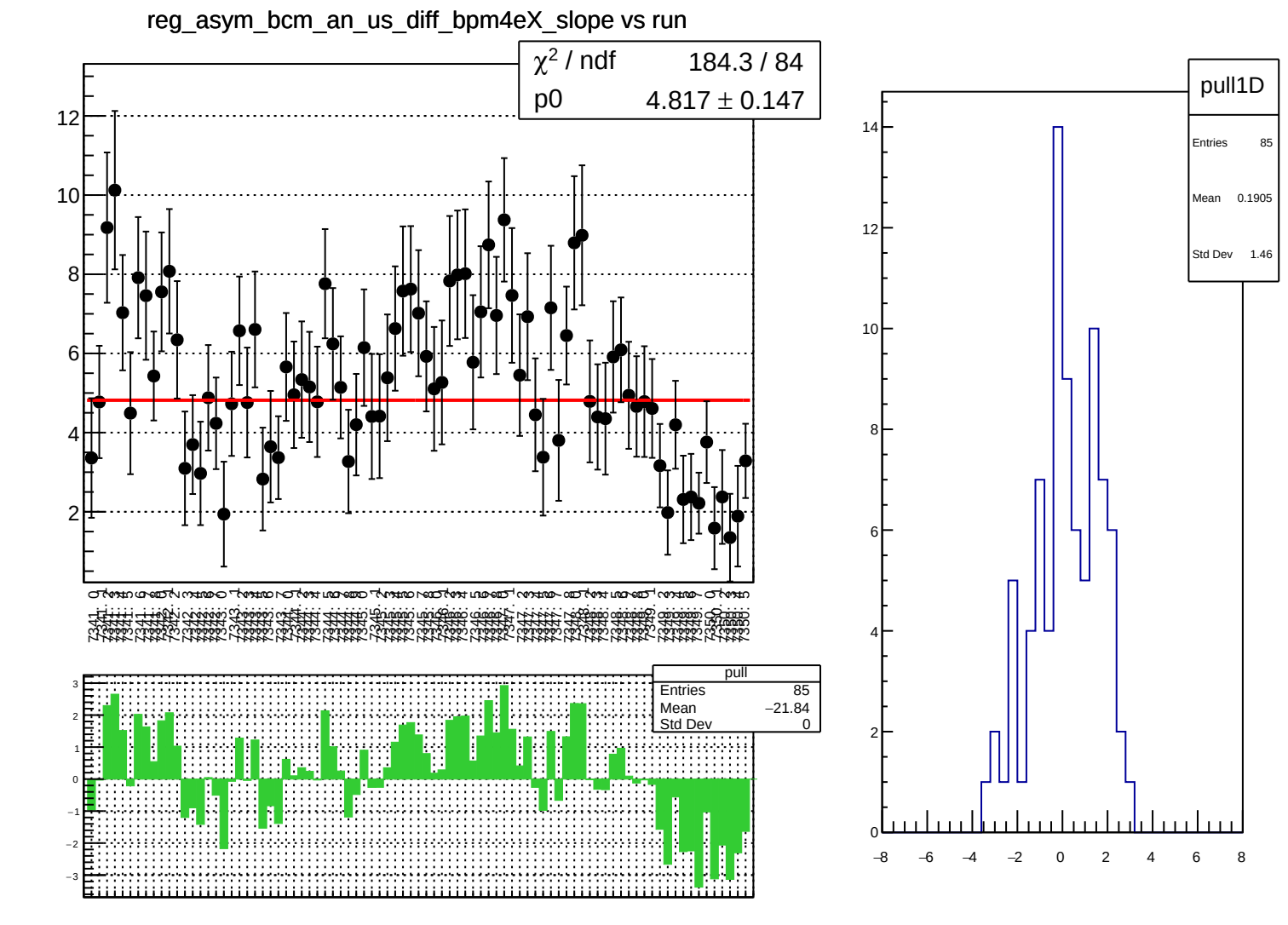

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 115.6 / 84
p0 −0.4363 ± 0.1441
pull
Entries 85
Mean −2.902e+04
Std Dev 0
pull1D
Entries 85
Mean −0.0001026
Std Dev 1.166

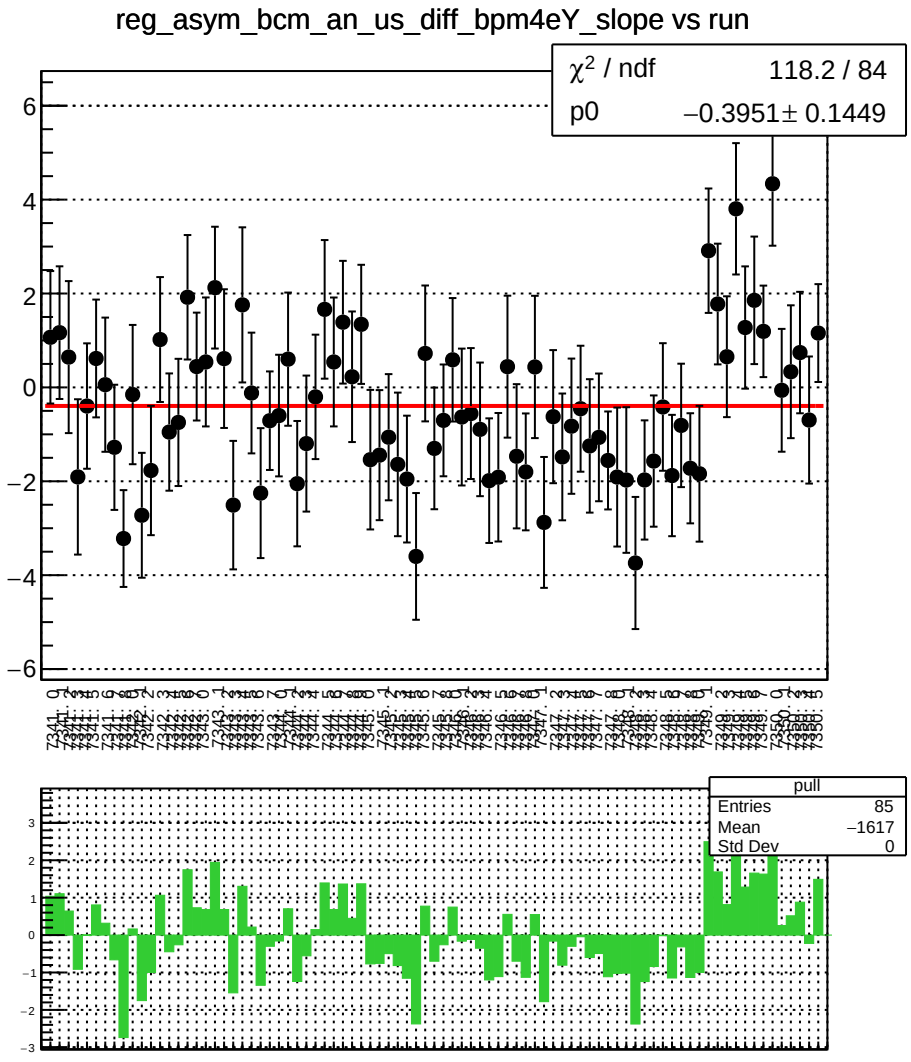

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 78.25 / 84
p0 0.02123 ± 0.006406
pull
Entries 85
Mean 168
Std Dev 0

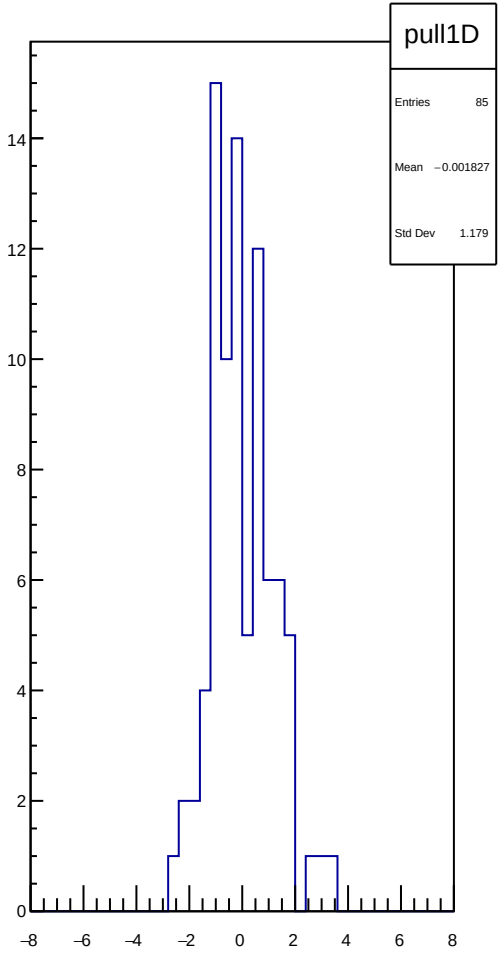

pull1D
Entries 85
Mean 0.02125
Std Dev 0.9593

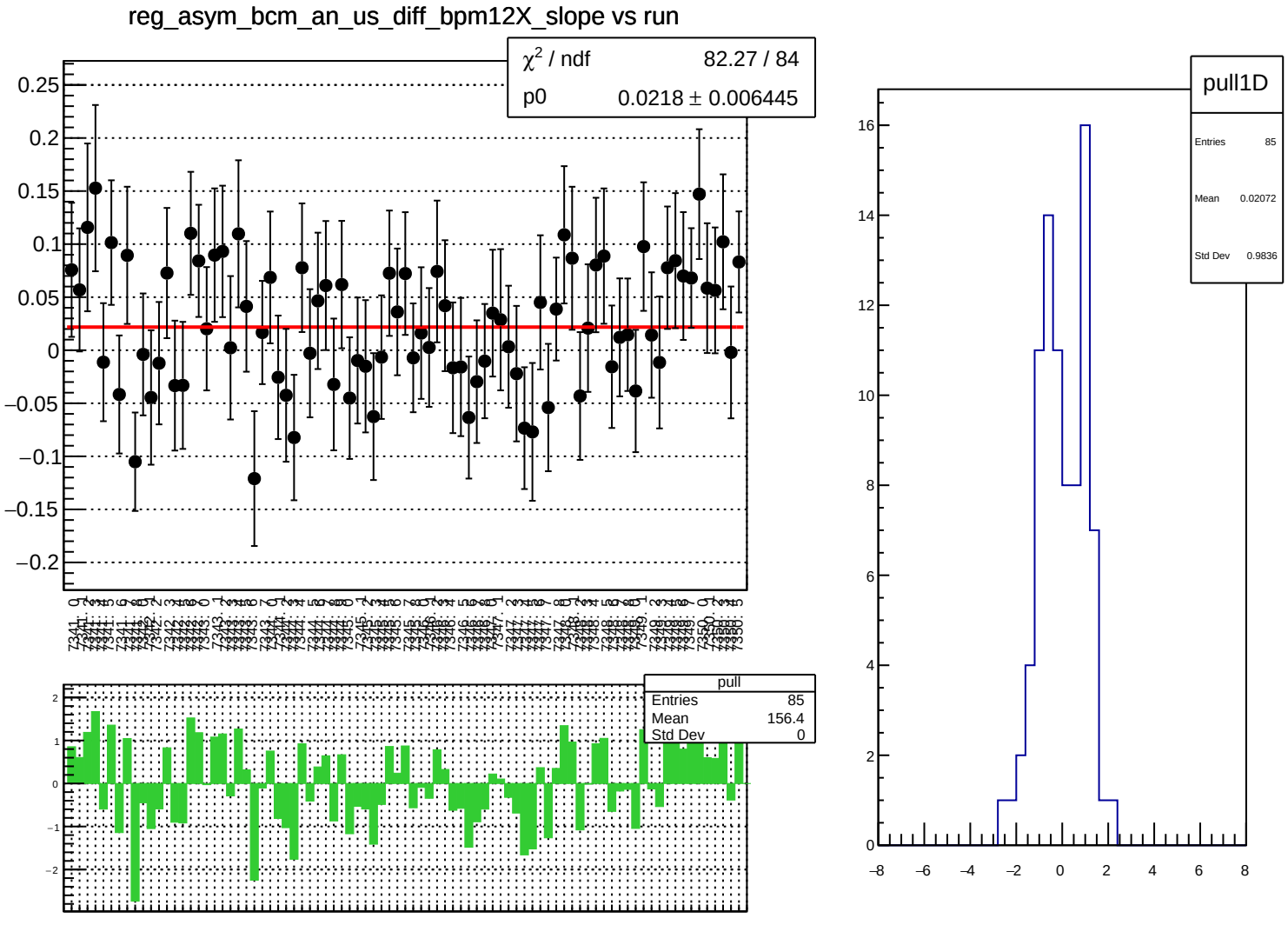

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 190.8 / 84
p0 −4.851 ± 0.1493
pull
Entries 85
Mean −28.82
Std Dev 0
pull1D
Entries 85
Mean −0.1961
Std Dev 1.485

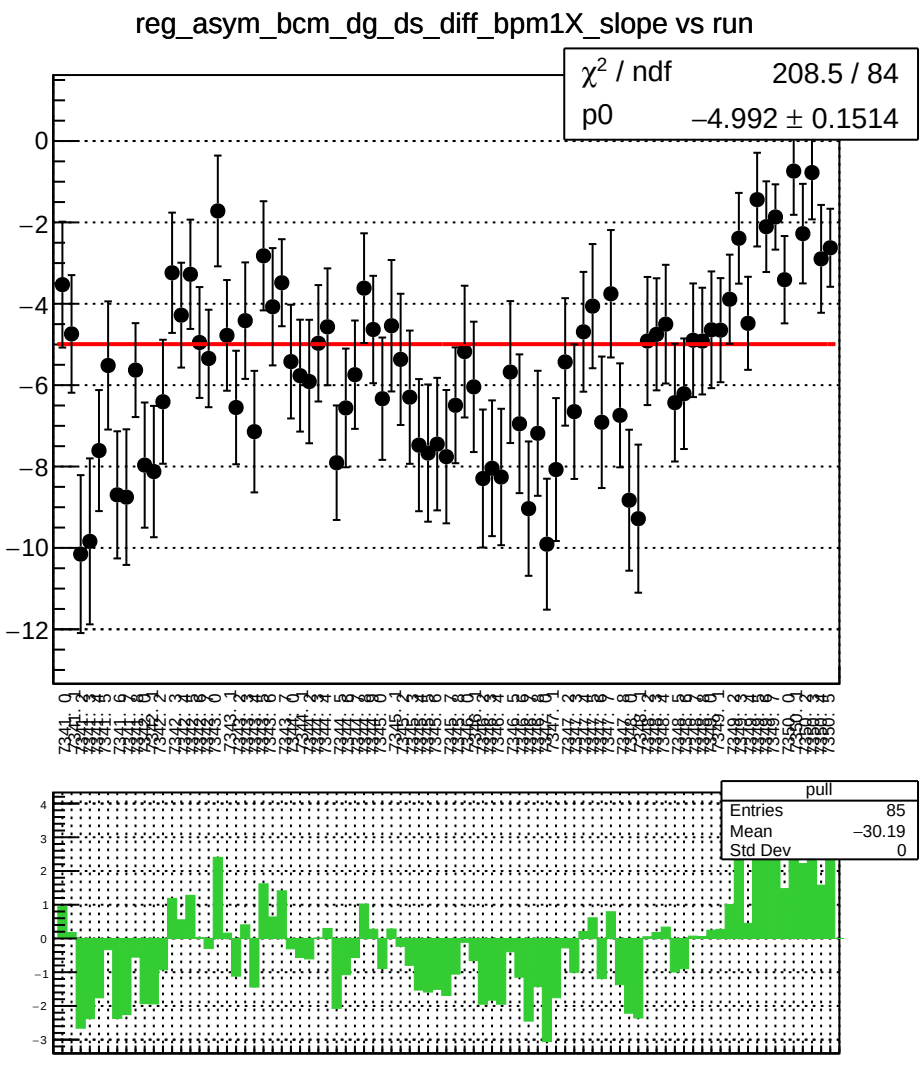

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 122.4 / 84
p0 −0.5575 ± 0.1332
pull
Entries 85
Mean 364.5
Std Dev 0
pull1D
Entries 85
Mean −0.01204
Std Dev 1.2

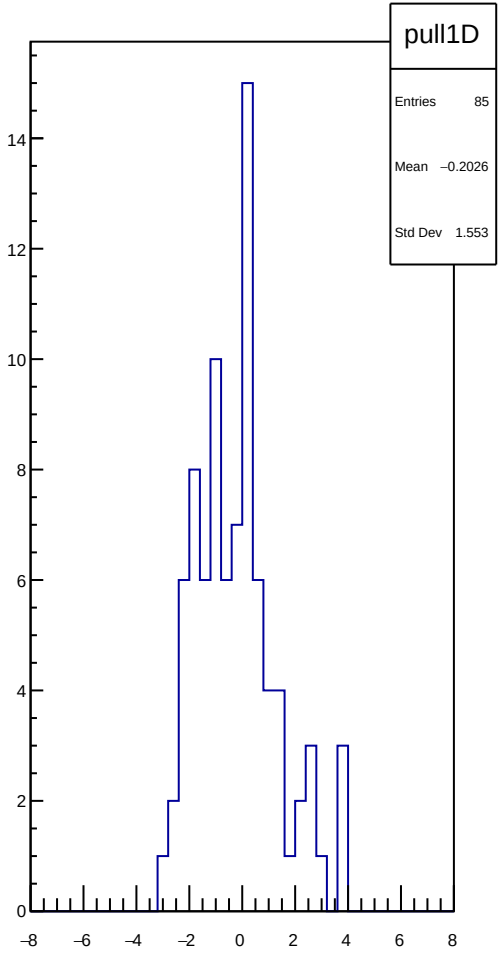

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 184.3 / 84
p0 4.817 ± 0.147
pull
Entries 85
Mean −21.84
Std Dev 0
pull1D
Entries 85
Mean 0.1905
Std Dev 1.46

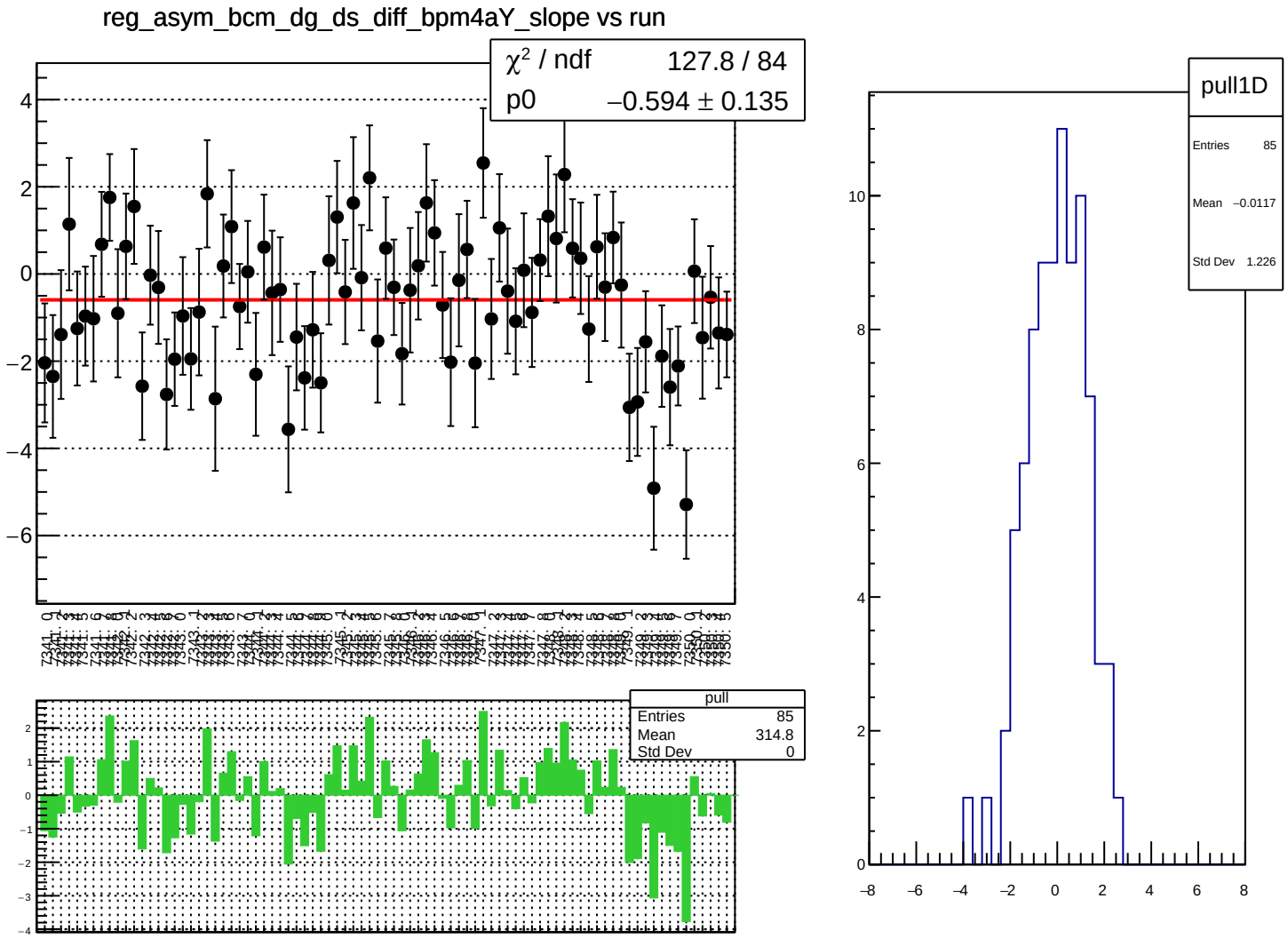

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 118.2 / 84
p0 −0.3951± 0.1449
pull
Entries 85
Mean −1617
Std Dev 0

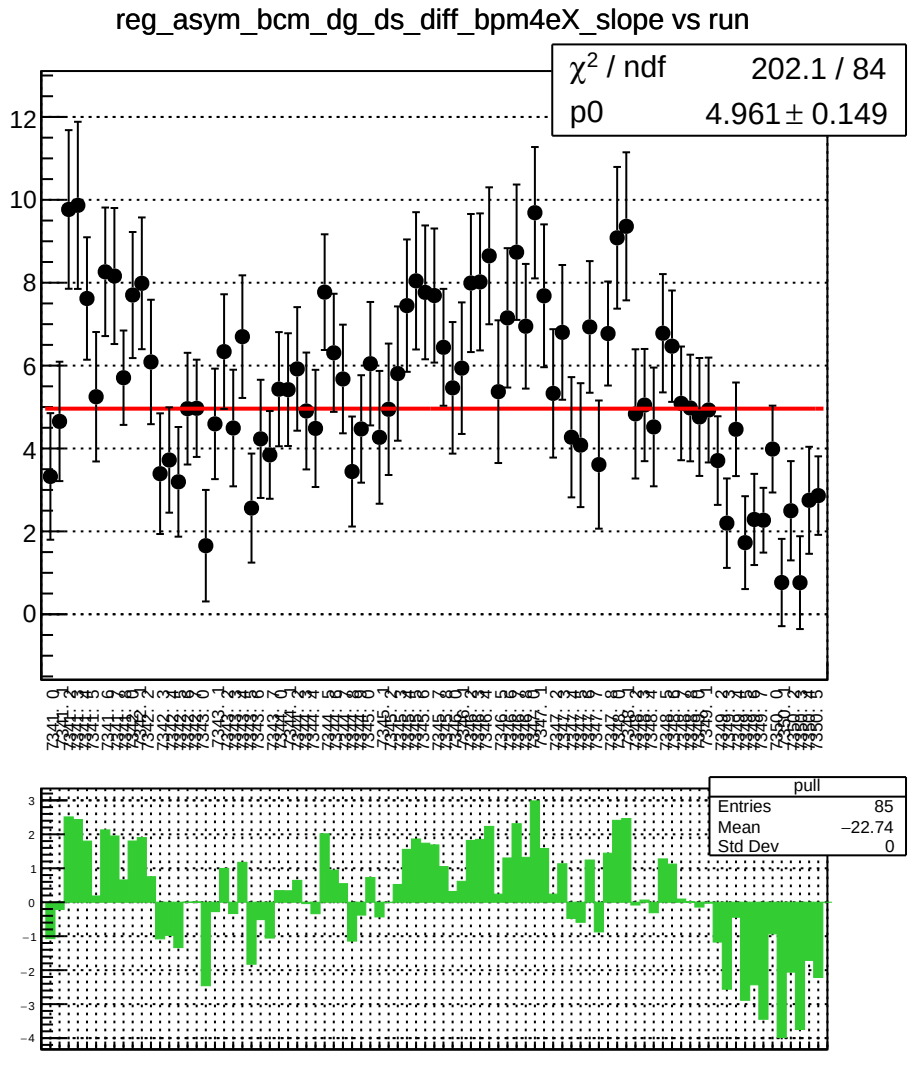

pull1D
Entries 85
Mean −0.001827
Std Dev 1.179

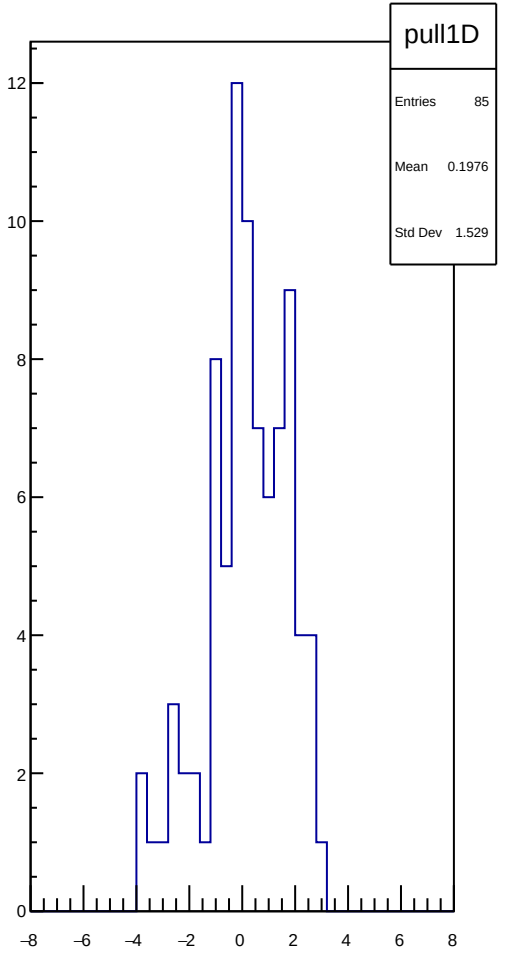

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 82.27 / 84
p0 0.0218 ± 0.006445
pull
Entries 85
Mean 156.4
Std Dev 0
pull1D
Entries 85
Mean 0.02072
Std Dev 0.9836

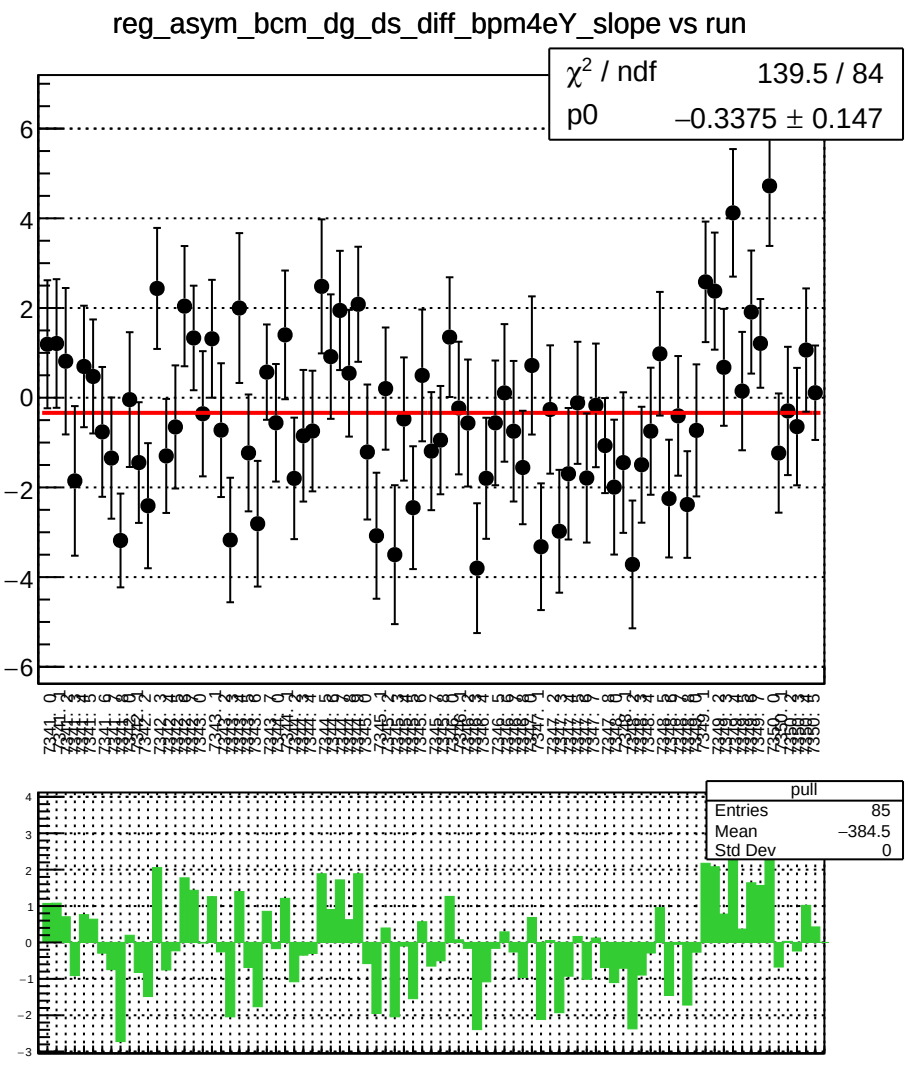

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 208.5 / 84
p0 −4.992 ± 0.1514
pull
Entries 85
Mean −30.19
Std Dev 0

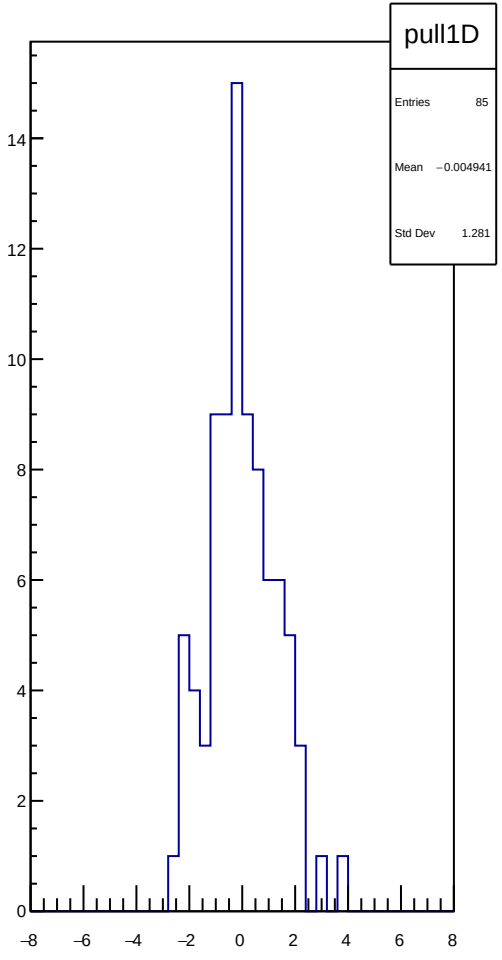

pull1D
Entries 85
Mean −0.2026
Std Dev 1.553

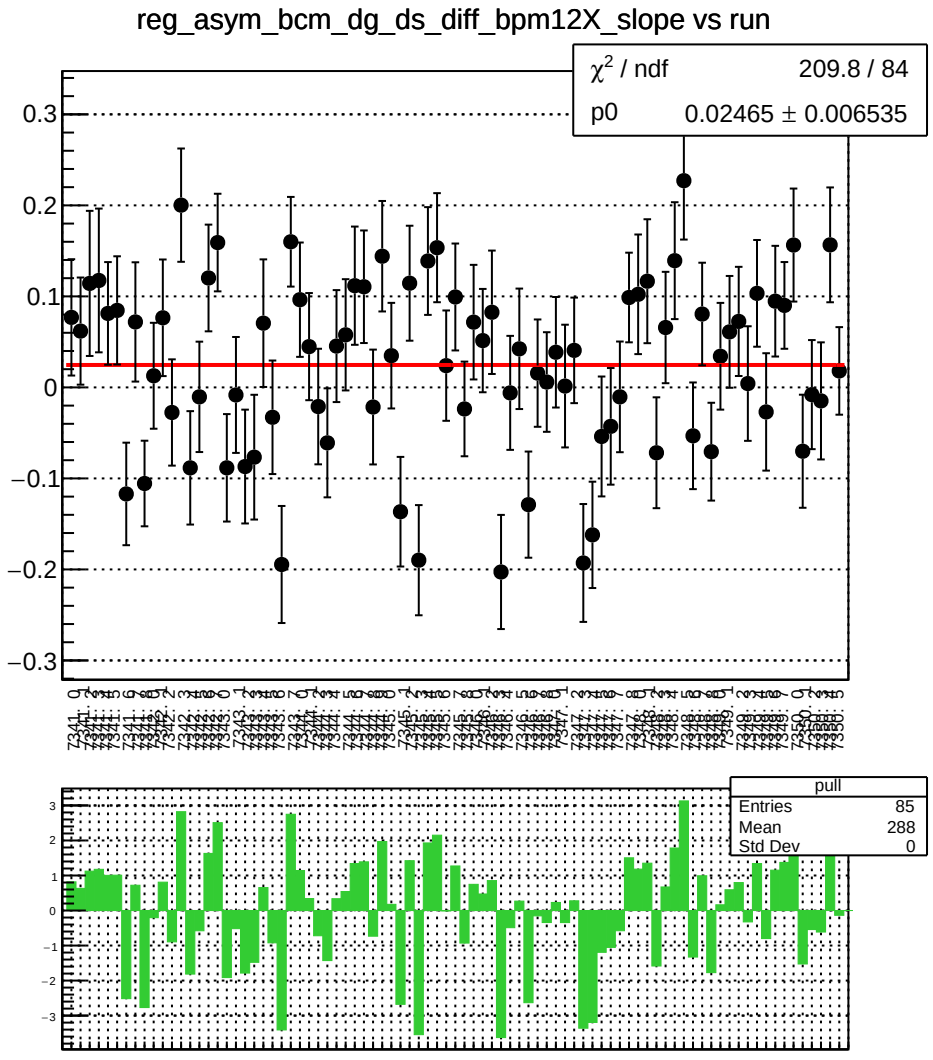

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 127.8 / 84
p0 −0.594 ± 0.135
pull
Entries 85
Mean 314.8
Std Dev 0
pull1D
Entries 85
Mean −0.0117
Std Dev 1.226

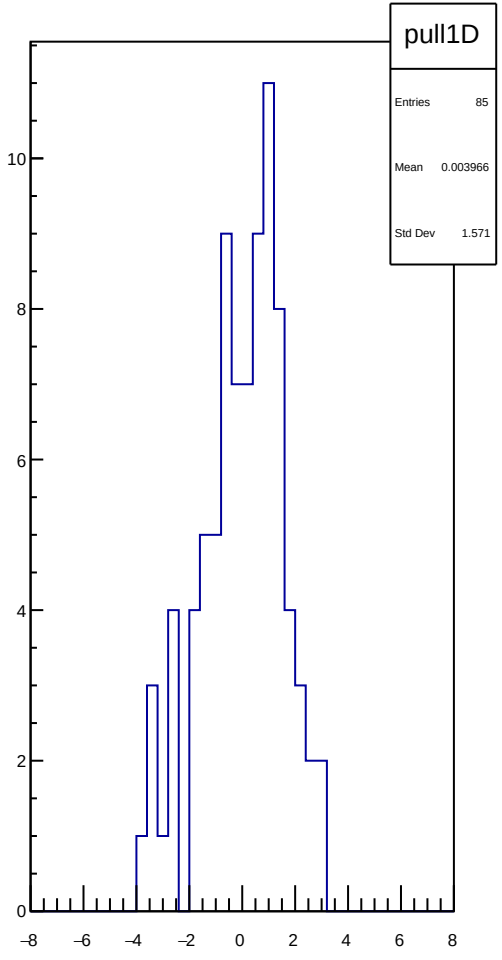

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 202.1 / 84
p0 4.961 ± 0.149
pull
Entries 85
Mean −22.74
Std Dev 0

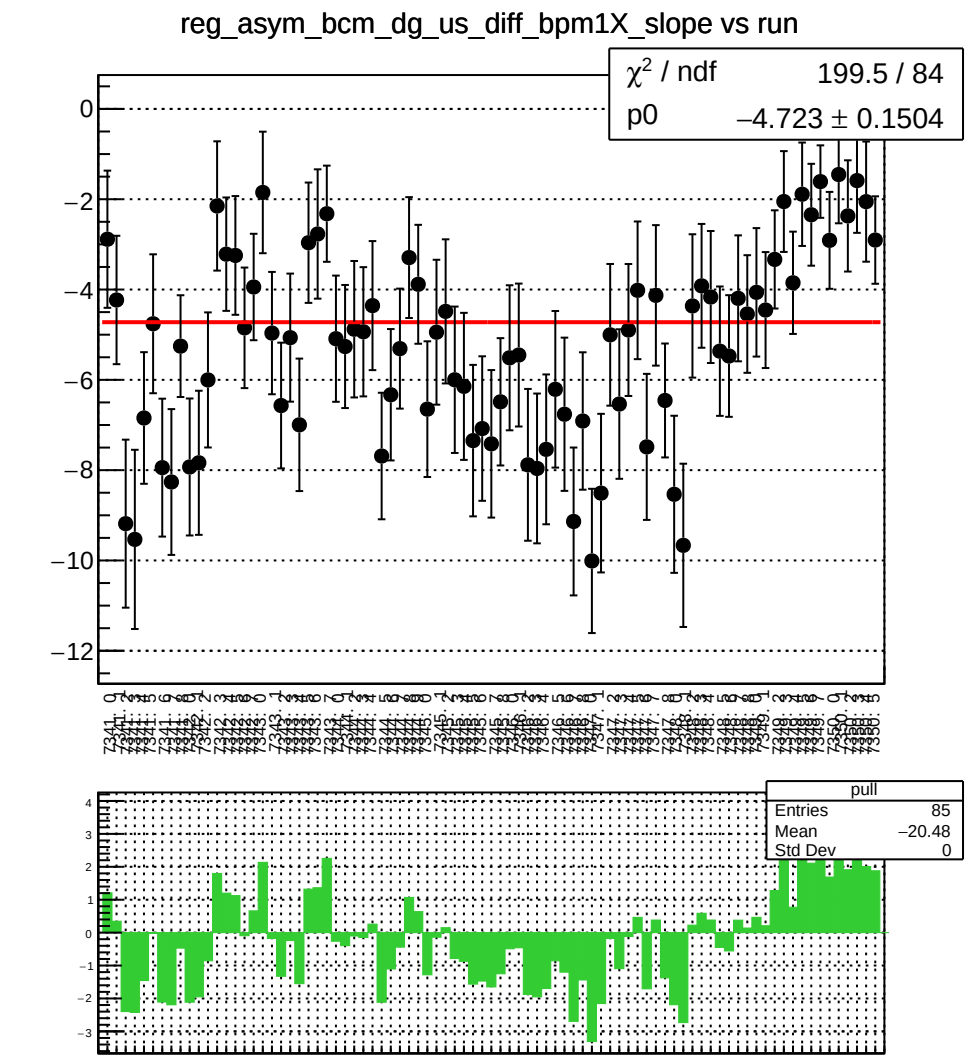

pull1D
Entries 85
Mean 0.1976
Std Dev 1.529

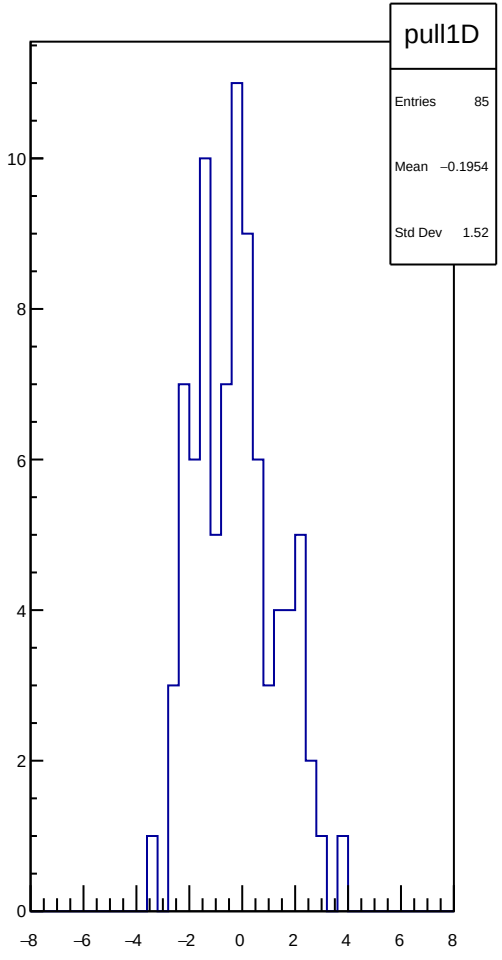

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 139.5 / 84
p0 −0.3375 ± 0.147
pull
Entries 85
Mean −384.5
Std Dev 0

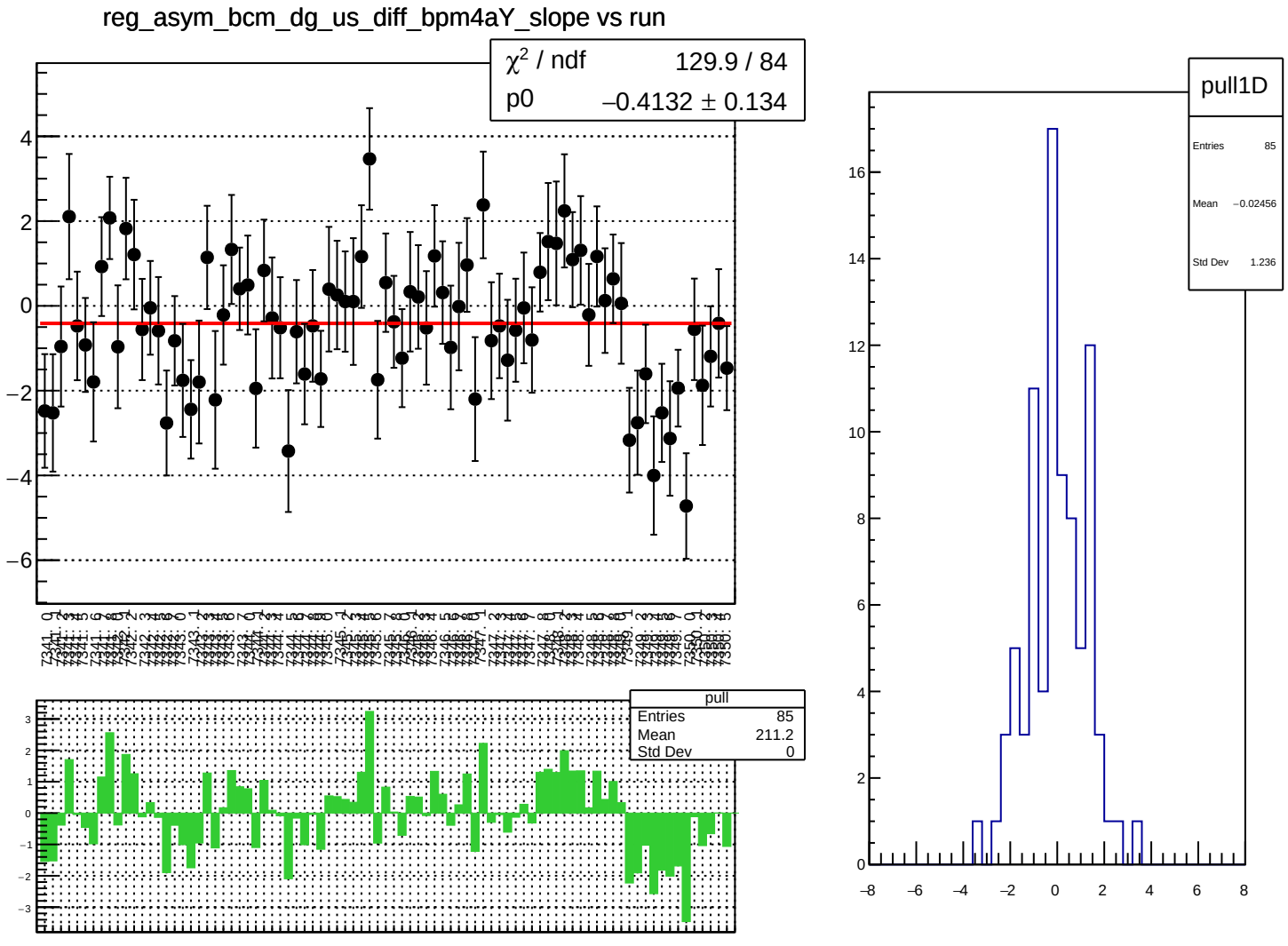

pull1D
Entries 85
Mean −0.004941
Std Dev 1.281

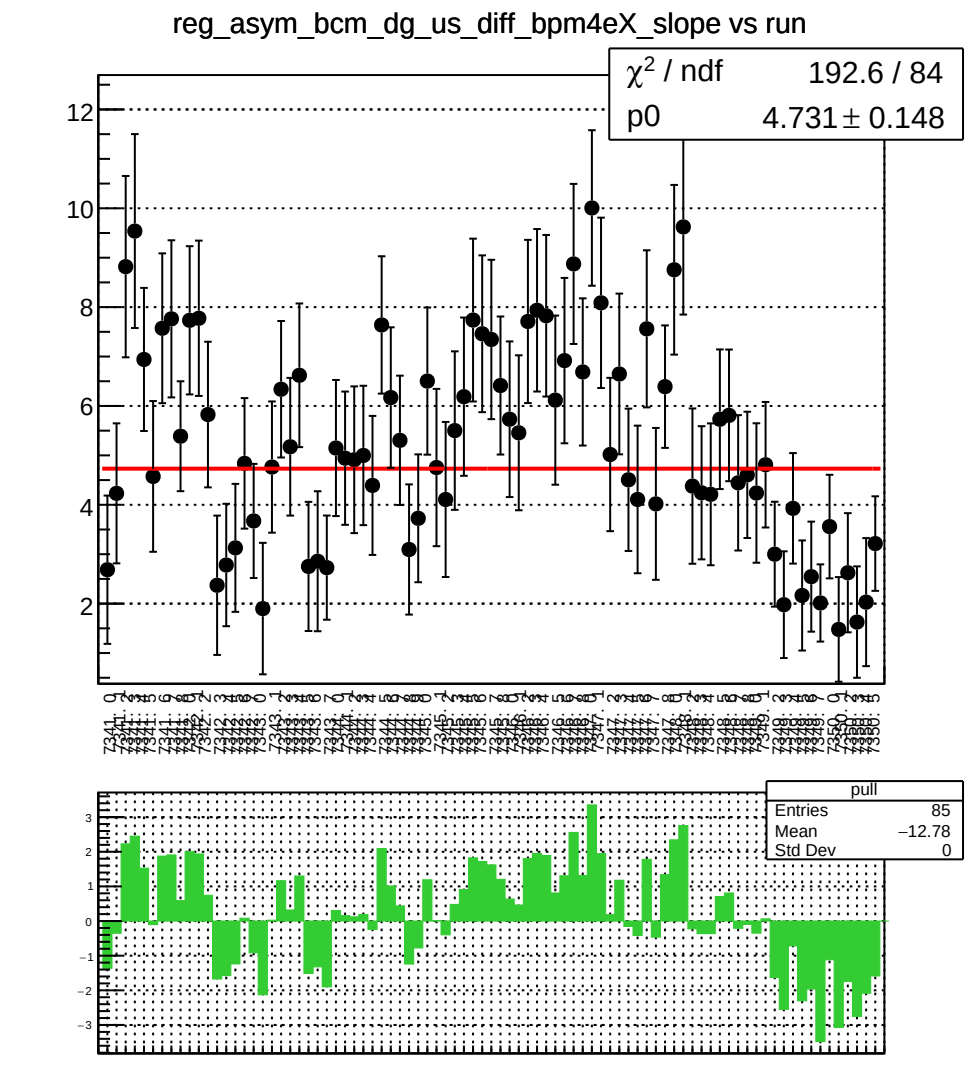

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 209.8 / 84
p0 0.02465 ± 0.006535
pull
Entries 85
Mean 288
Std Dev 0

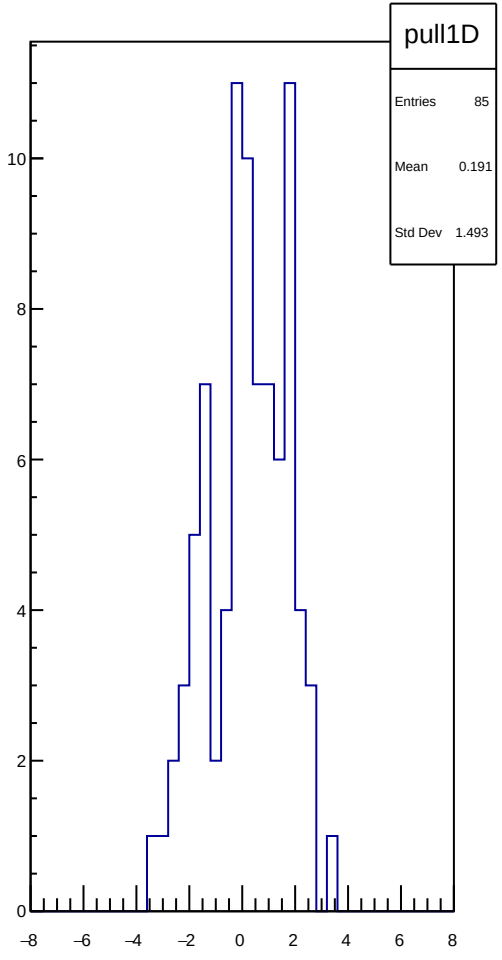

pull1D
Entries 85
Mean 0.003966
Std Dev 1.571

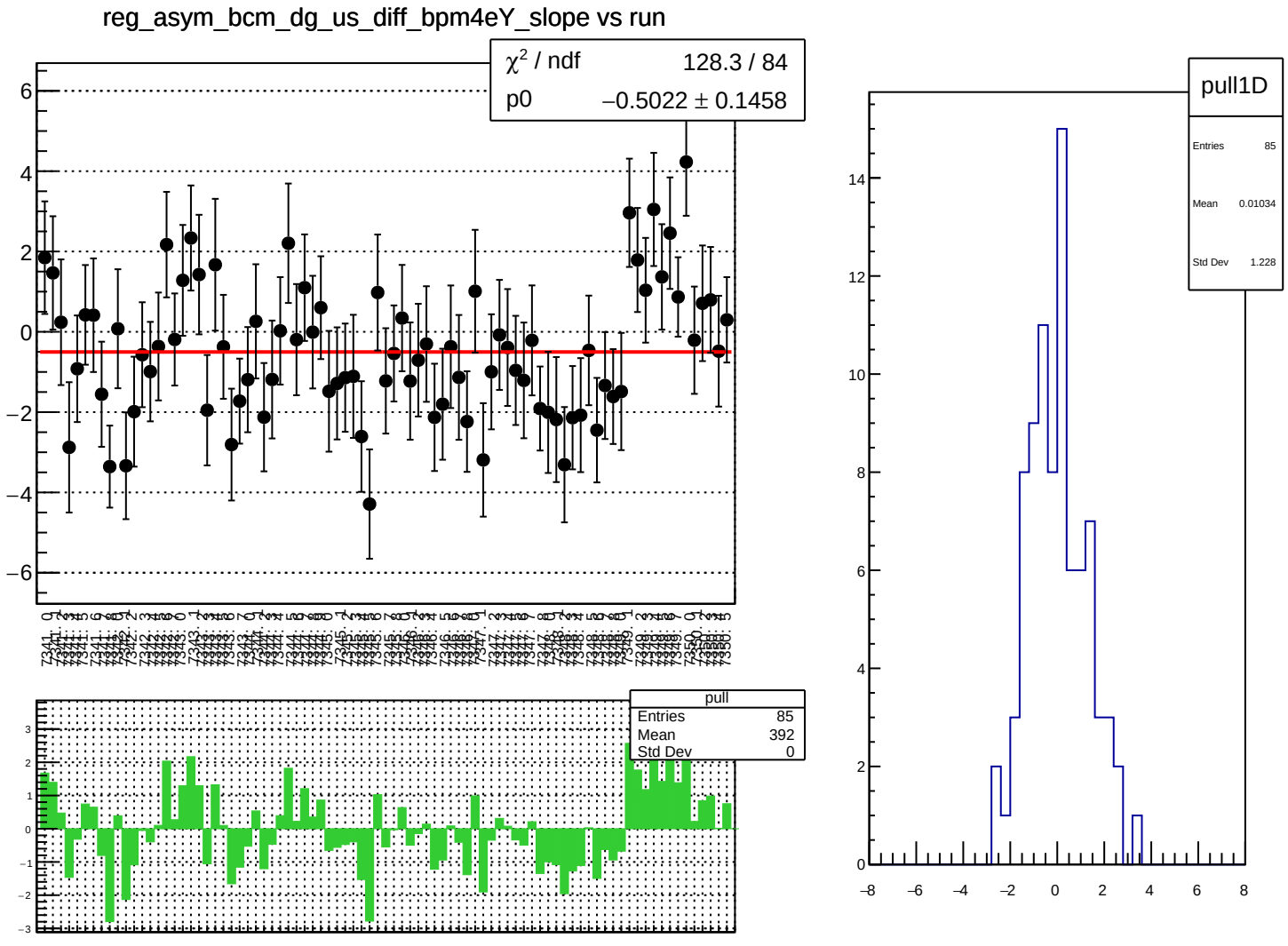

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 199.5 / 84
p0 −4.723 ± 0.1504
pull
Entries 85
Mean −20.48
Std Dev 0

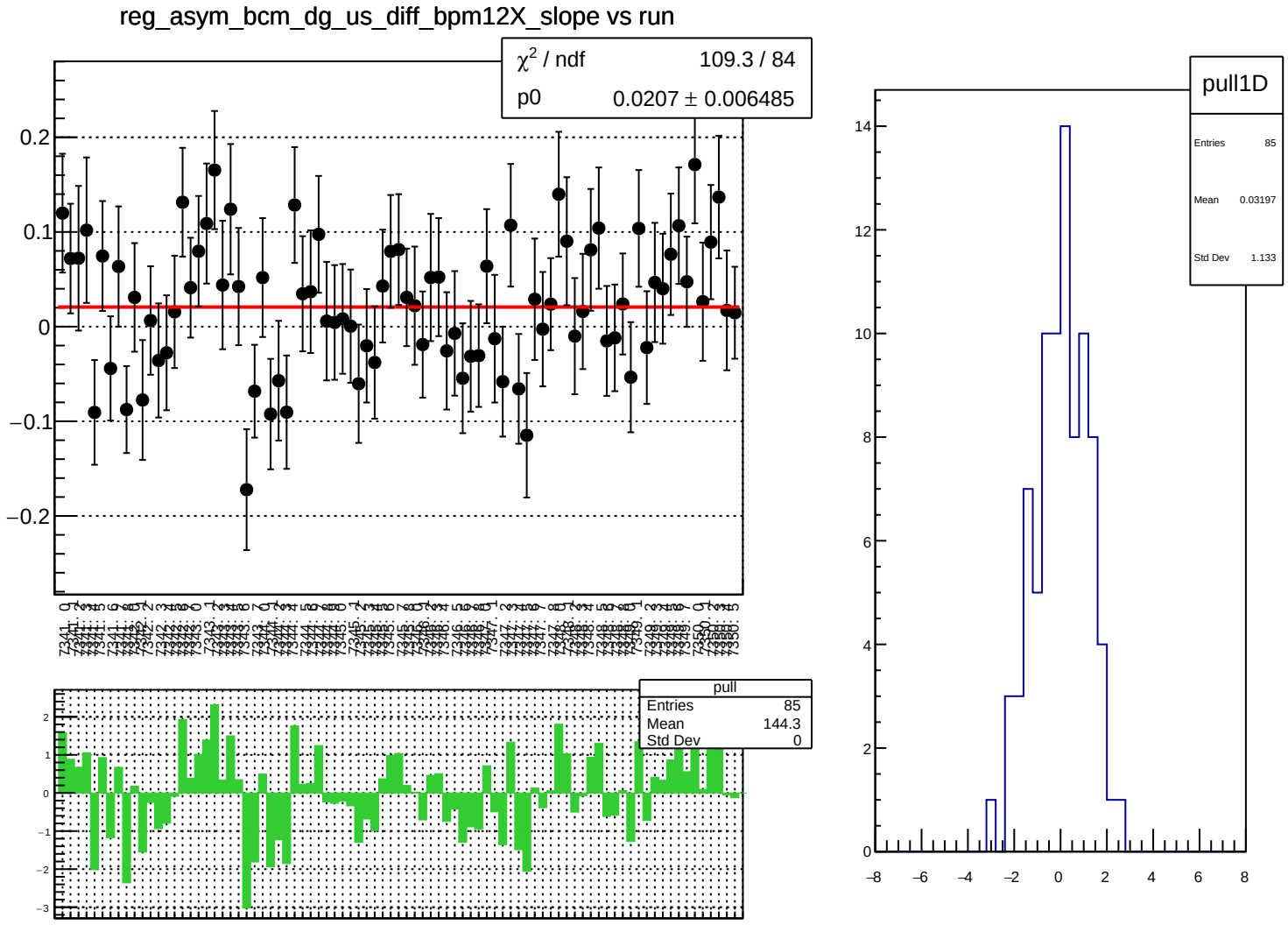

pull1D
Entries 85
Mean −0.1954
Std Dev 1.52

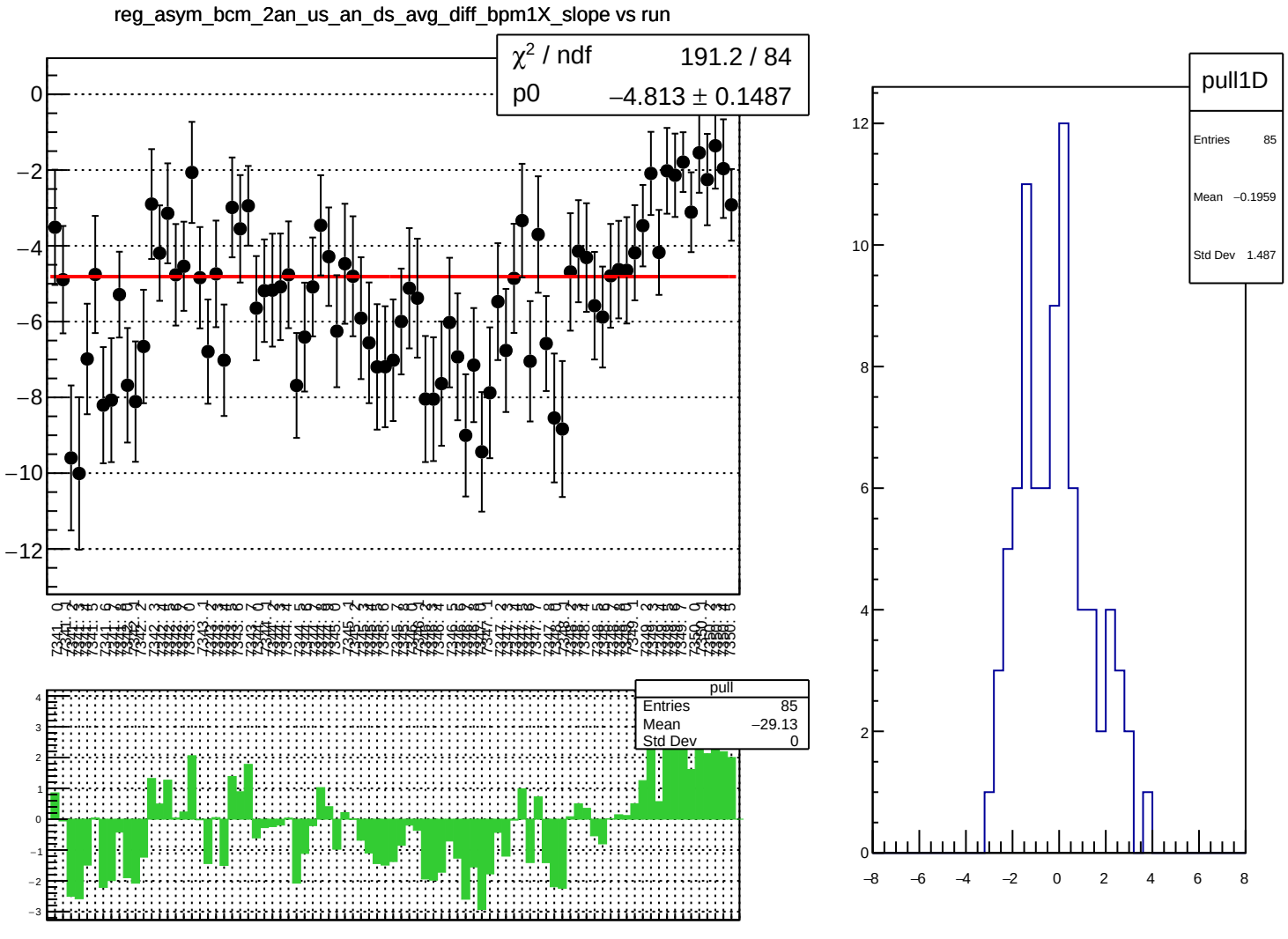

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 129.9 / 84
p0 −0.4132 ± 0.134
pull
Entries 85
Mean 211.2
Std Dev 0
pull1D
Entries 85
Mean −0.02456
Std Dev 1.236

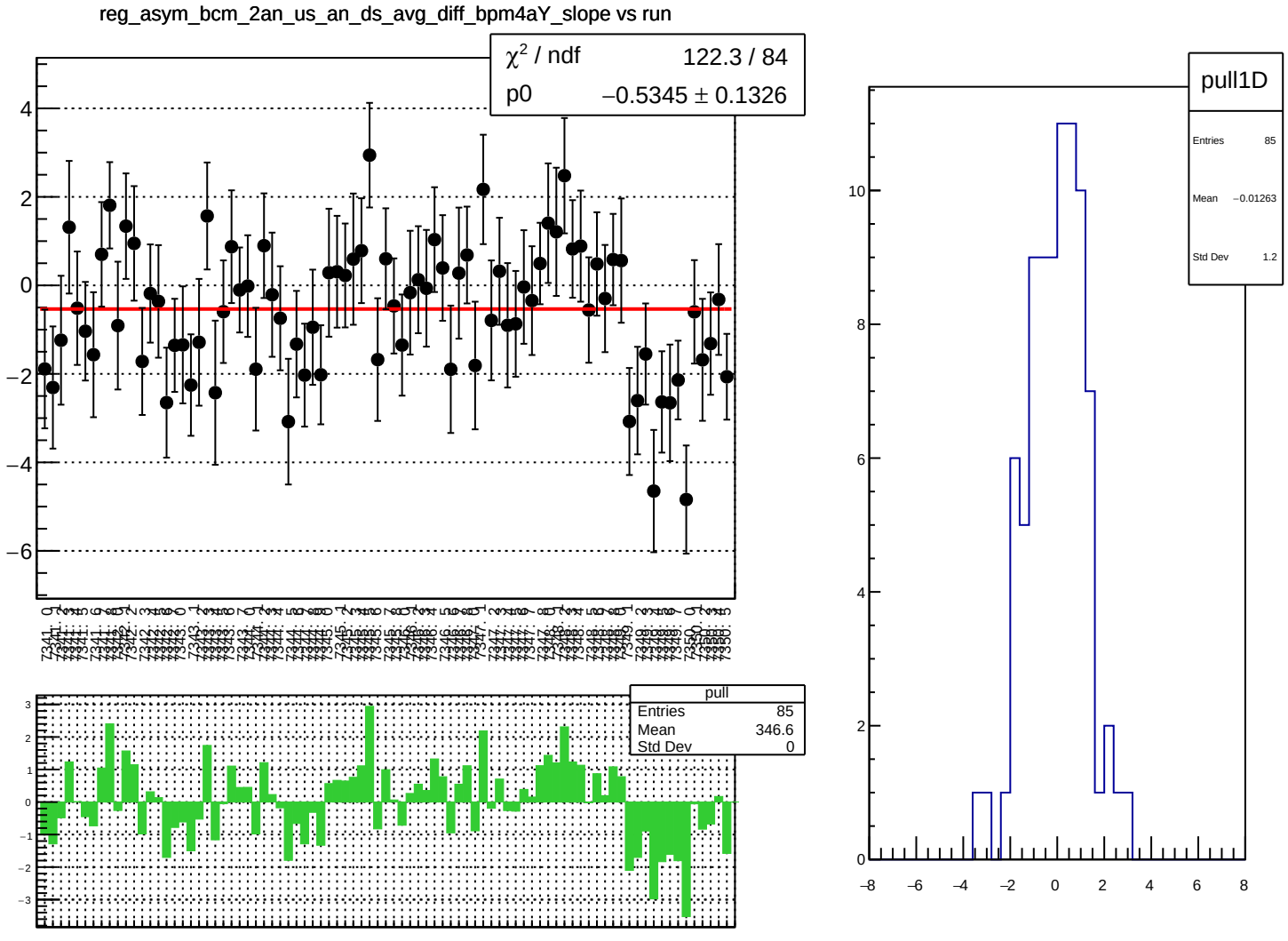

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 192.6 / 84
p0 4.731 ± 0.148
pull
Entries 85
Mean −12.78
Std Dev 0

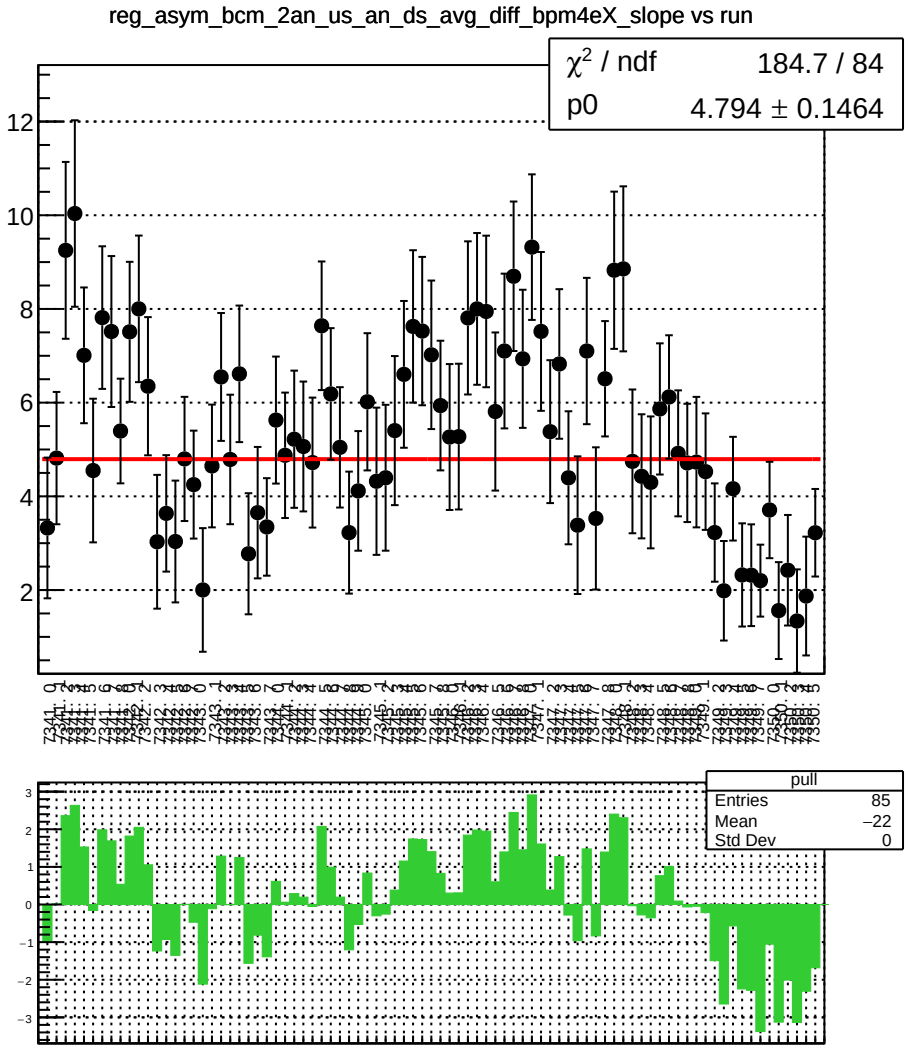

pull1D
Entries 85
Mean 0.191
Std Dev 1.493

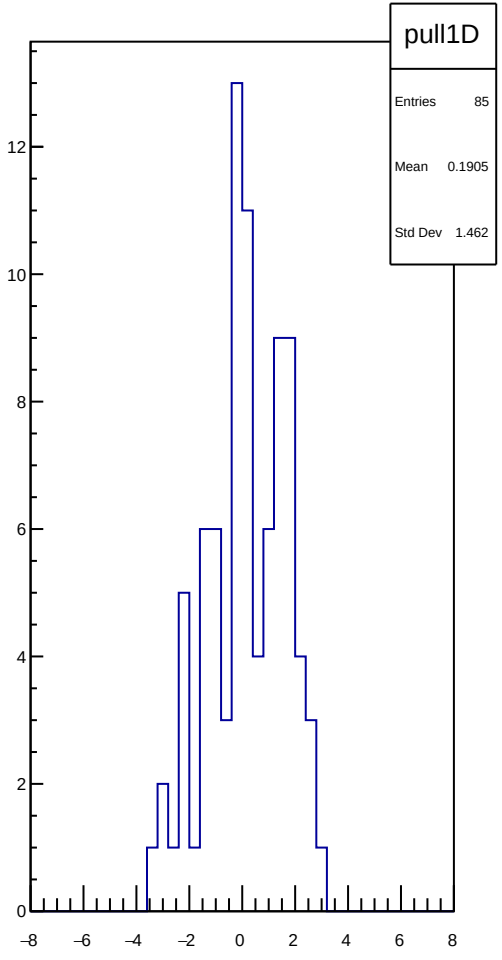

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 128.3 / 84
p0 −0.5022 ± 0.1458
pull
Entries 85
Mean 392
Std Dev 0
pull1D
Entries 85
Mean 0.01034
Std Dev 1.228

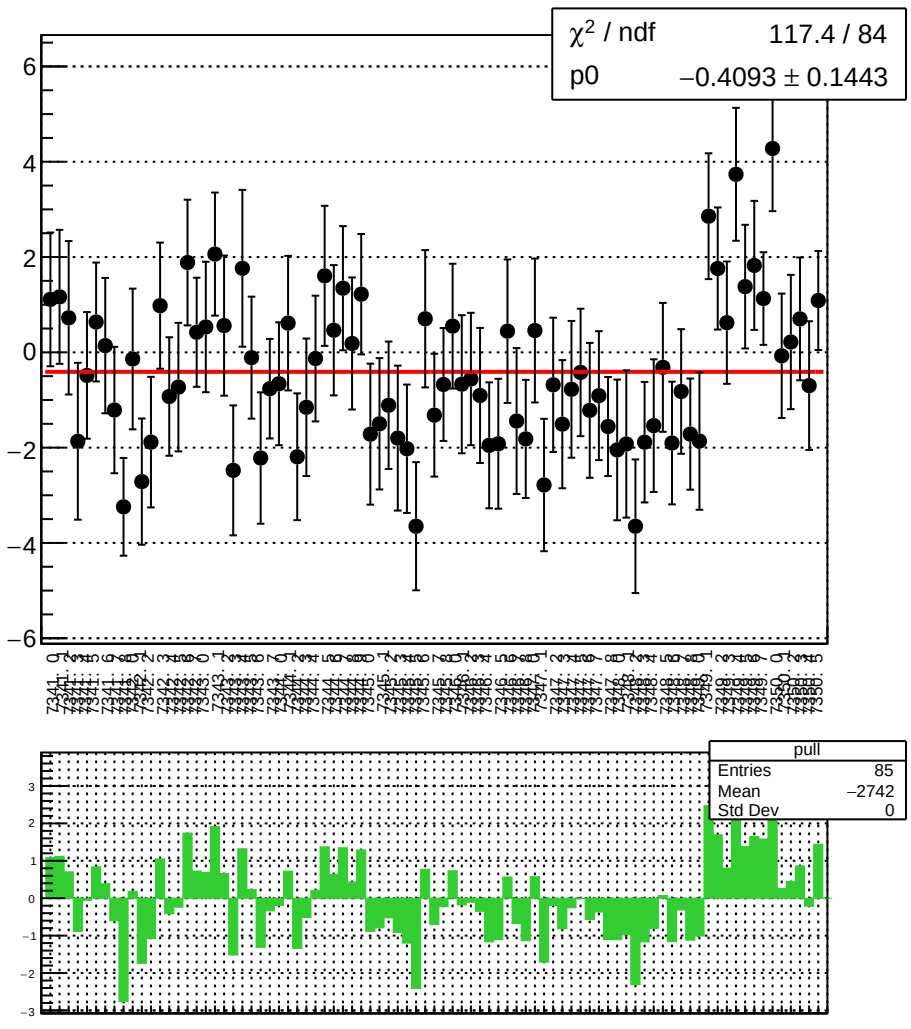

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 109.3 / 84
p0 0.0207 ± 0.006485
pull
Entries 85
Mean 144.3
Std Dev 0
pull1D
Entries 85
Mean 0.03197
Std Dev 1.133

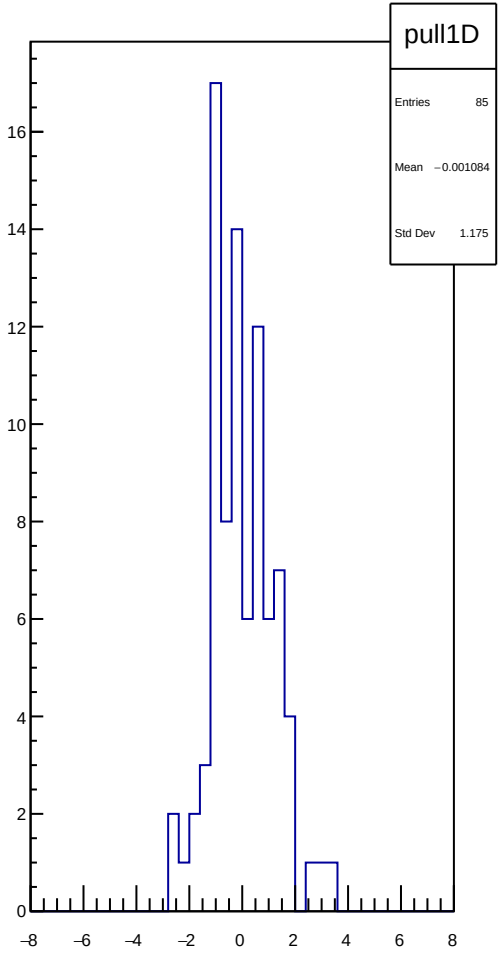

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 191.2 / 84
p0 −4.813 ± 0.1487
pull
Entries 85
Mean −29.13
Std Dev 0
pull1D
Entries 85
Mean −0.1959
Std Dev 1.487

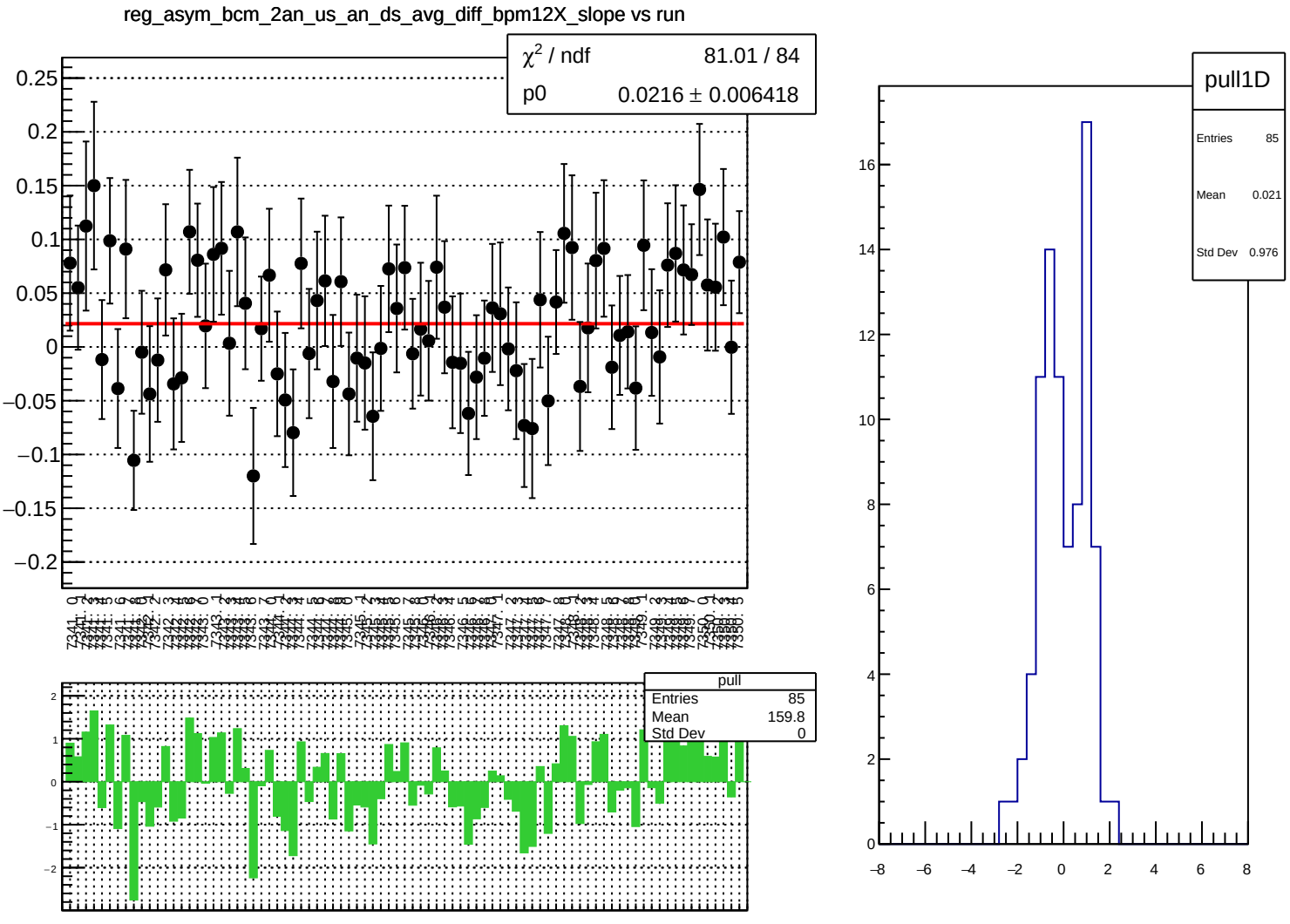

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 122.3 / 84
p0 −0.5345 ± 0.1326
pull
Entries 85
Mean 346.6
Std Dev 0
pull1D
Entries 85
Mean −0.01263
Std Dev 1.2

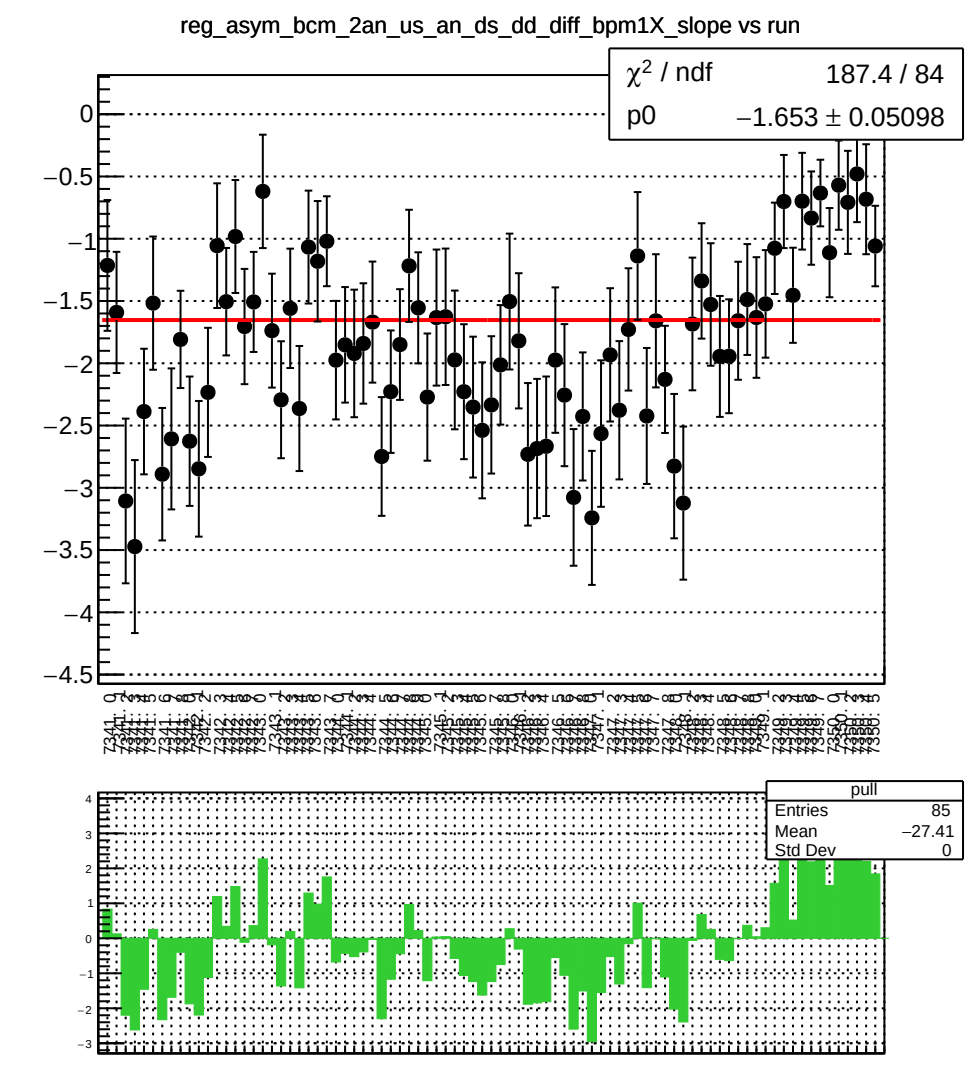

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 184.7 / 84
p0 4.794 ± 0.1464
pull
Entries 85
Mean −22
Std Dev 0

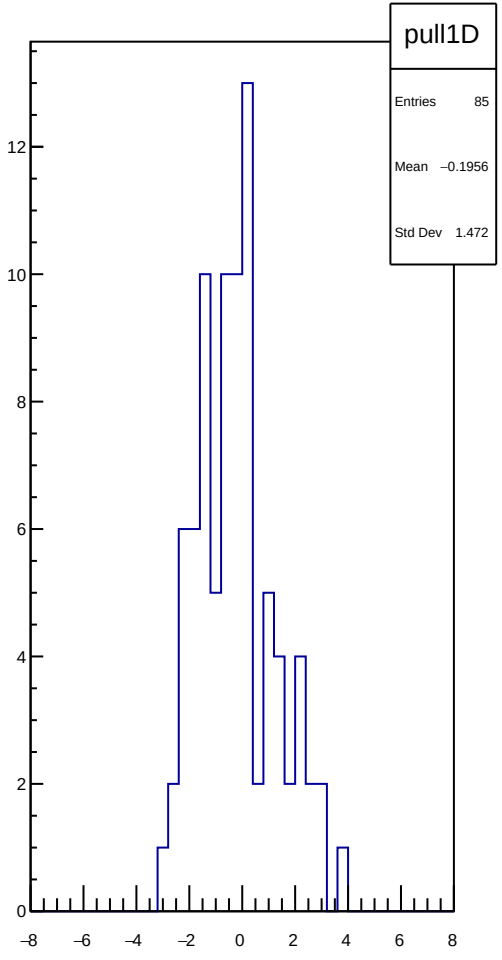

pull1D
Entries 85
Mean 0.1905
Std Dev 1.462

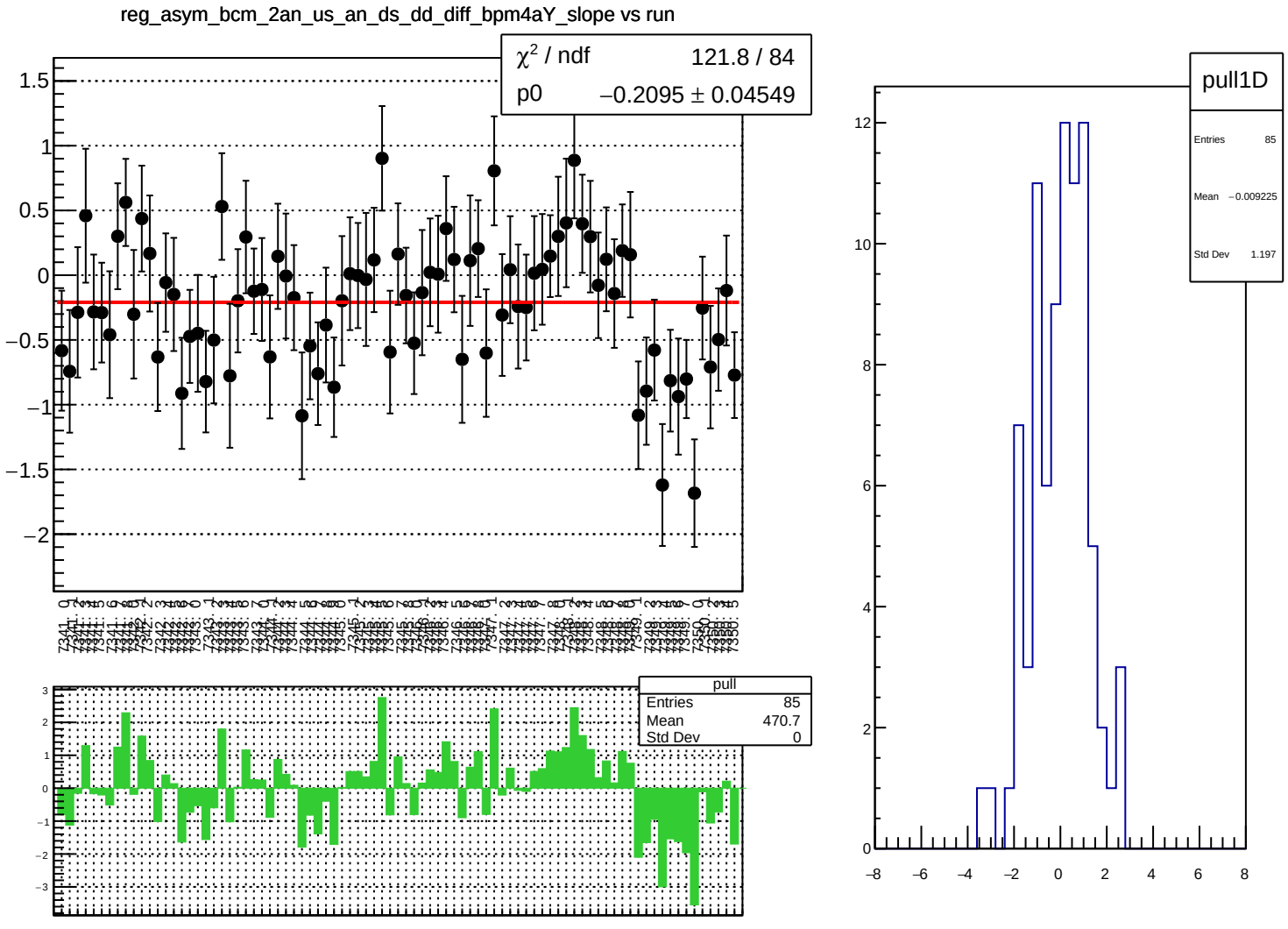

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 117.4 / 84
p0 −0.4093 ± 0.1443
pull
Entries 85
Mean −2742
Std Dev 0

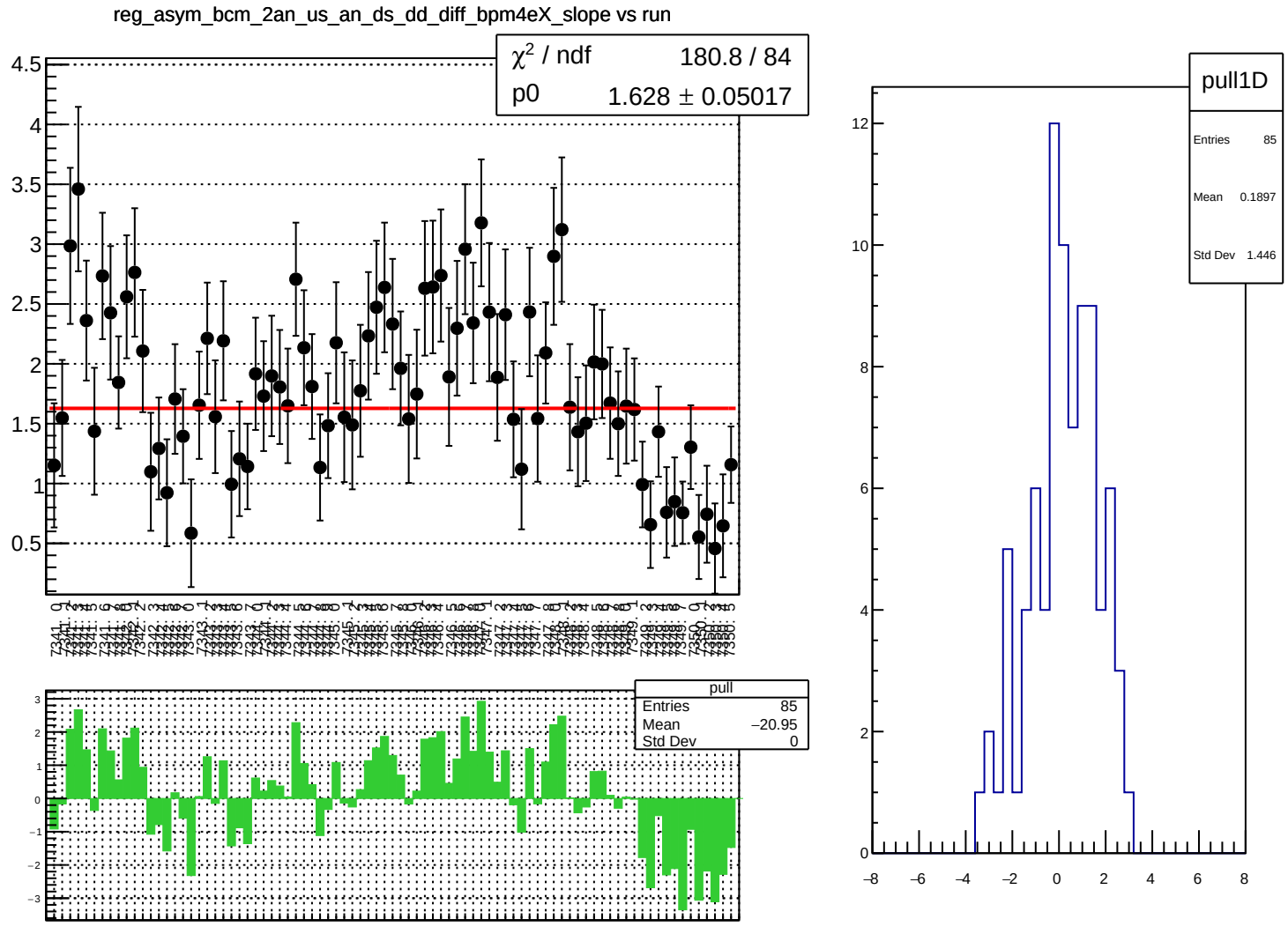

pull1D
Entries 85
Mean −0.001084
Std Dev 1.175

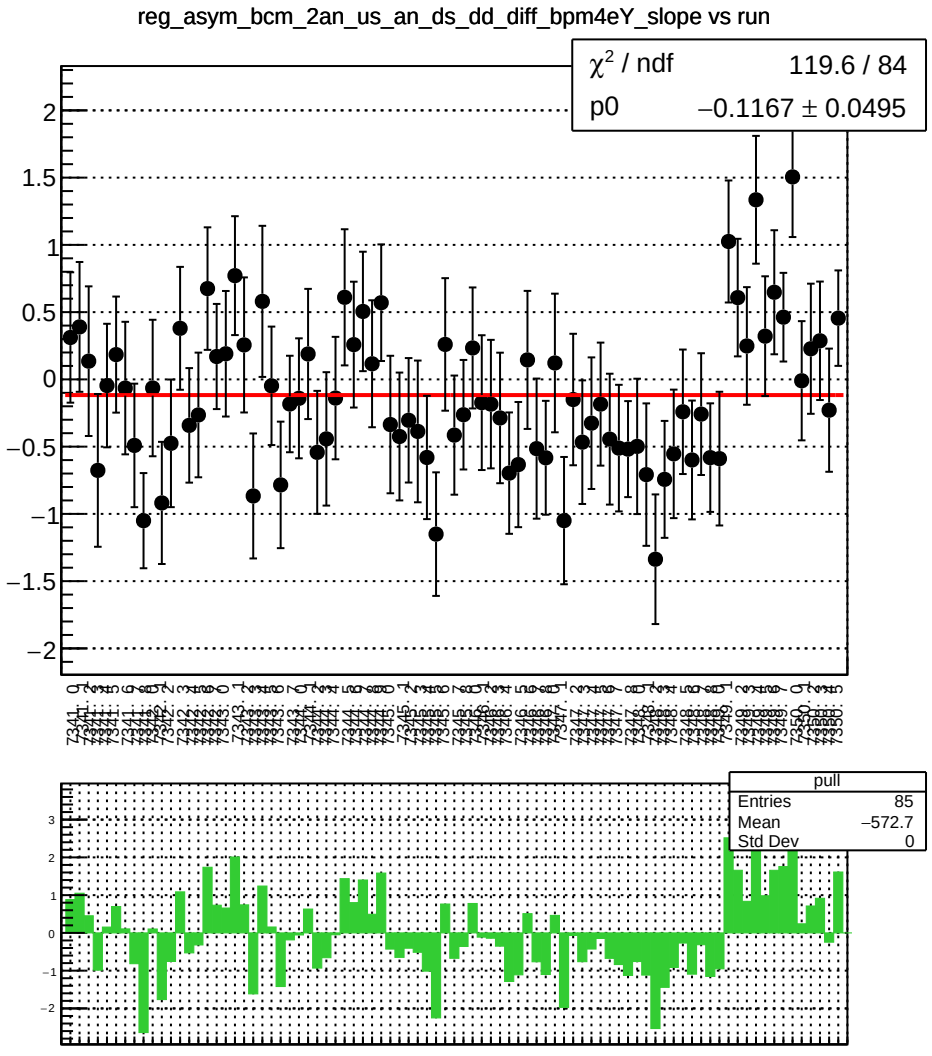

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 81.01 / 84
p0 0.0216 ± 0.006418
pull
Entries 85
Mean 159.8
Std Dev 0
pull1D
Entries 85
Mean 0.021
Std Dev 0.976

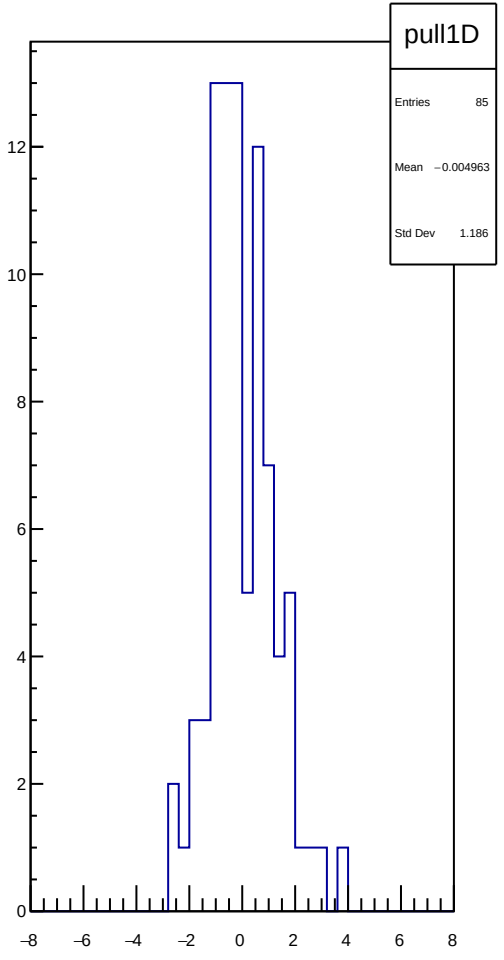

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 187.4 / 84
p0 −1.653 ± 0.05098
pull
Entries 85
Mean −27.41
Std Dev 0

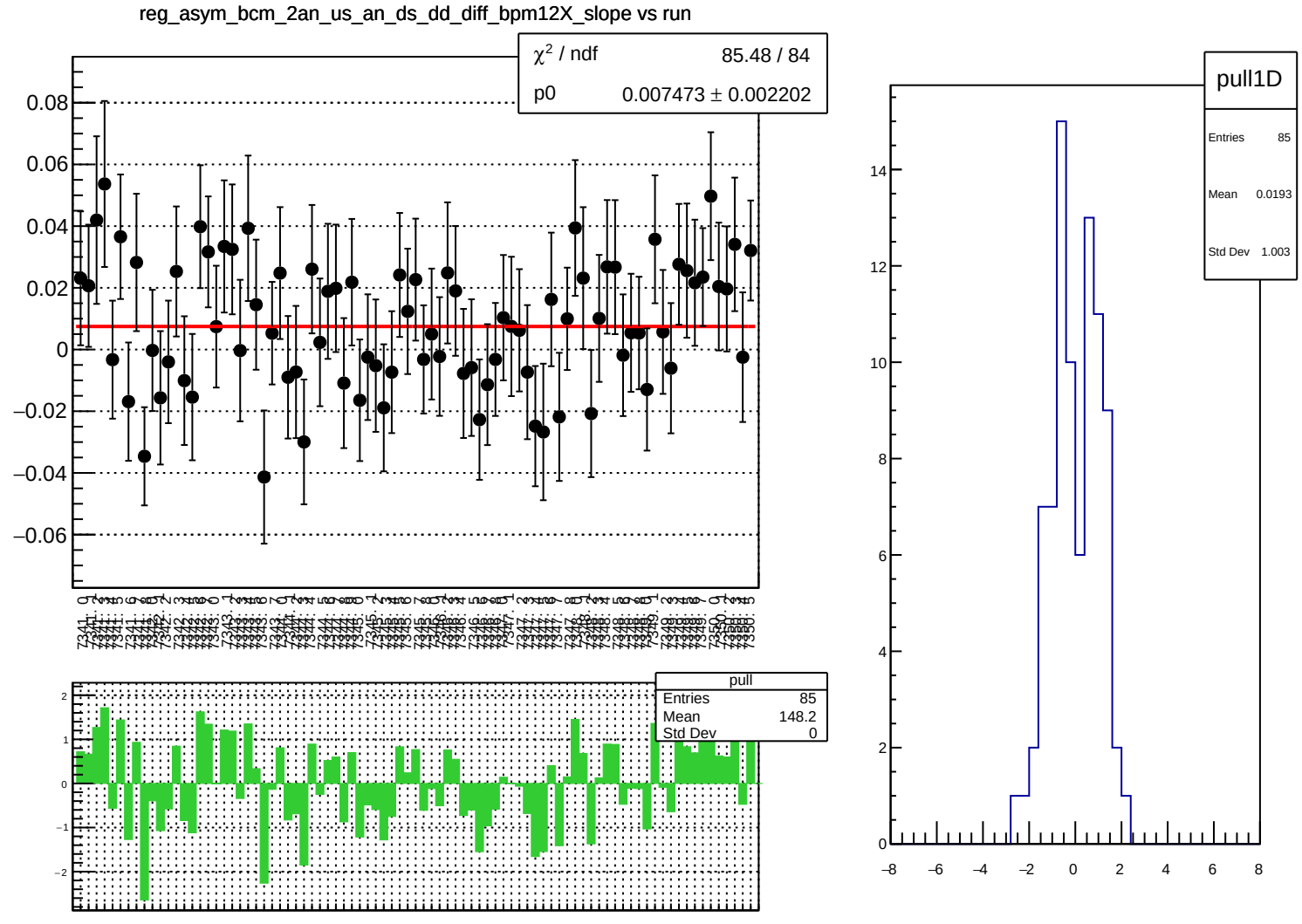

pull1D
Entries 85
Mean −0.1956
Std Dev 1.472

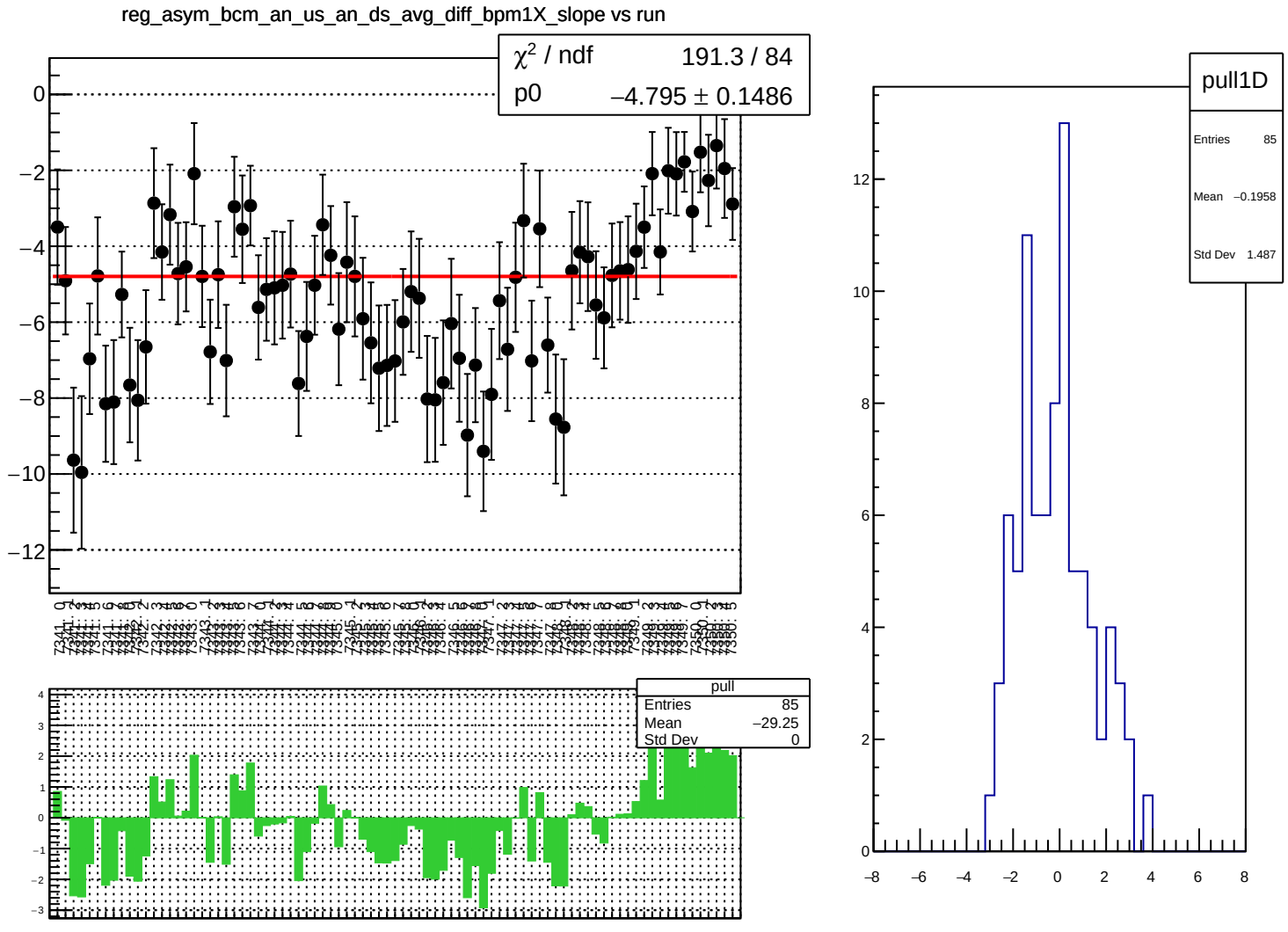

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 121.8 / 84
p0 −0.2095 ± 0.04549
pull
Entries 85
Mean 470.7
Std Dev 0
pull1D
Entries 85
Mean −0.009225
Std Dev 1.197

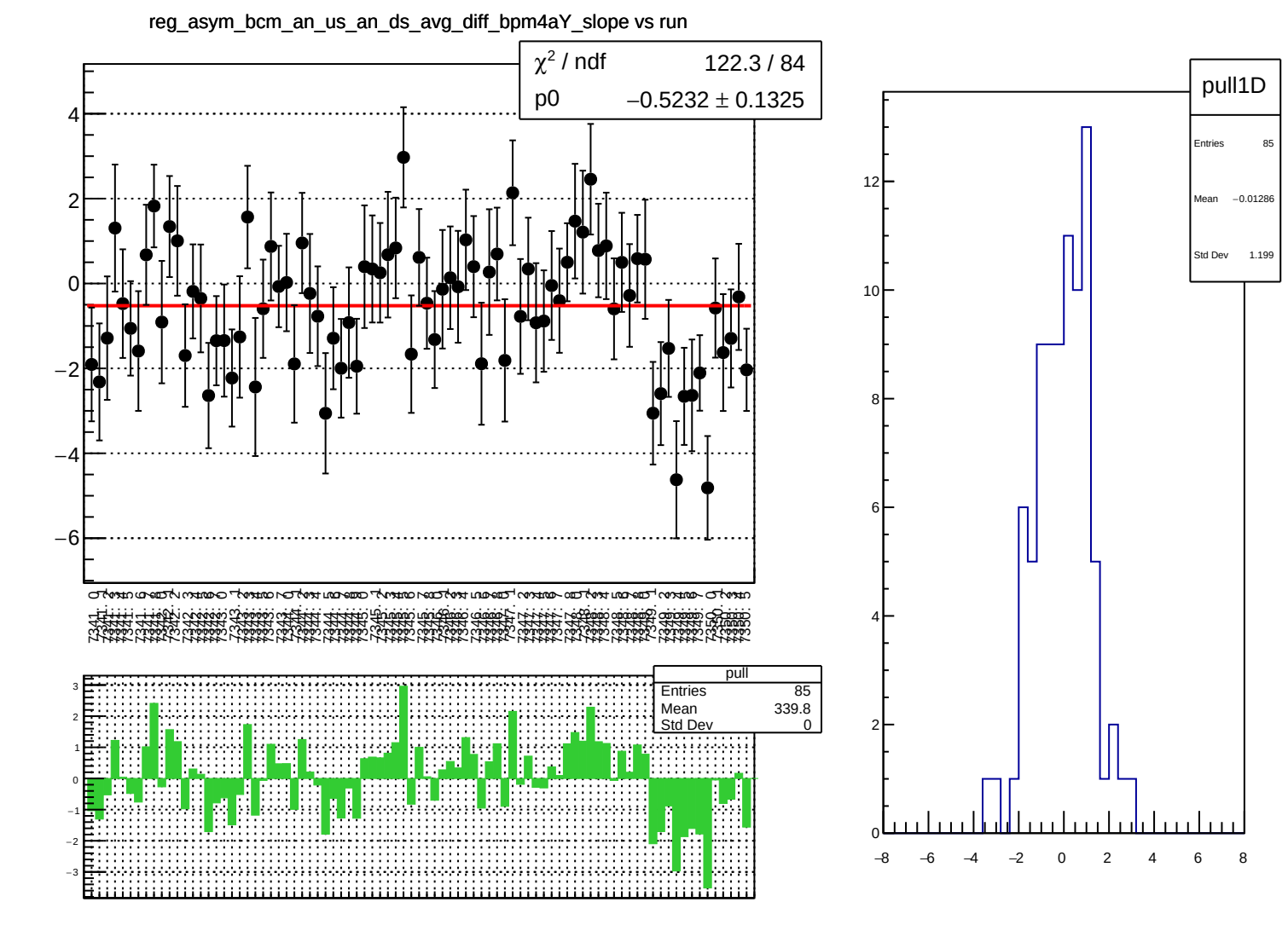

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 180.8 / 84
p0 1.628 ± 0.05017
pull
Entries 85
Mean −20.95
Std Dev 0
pull1D
Entries 85
Mean 0.1897
Std Dev 1.446

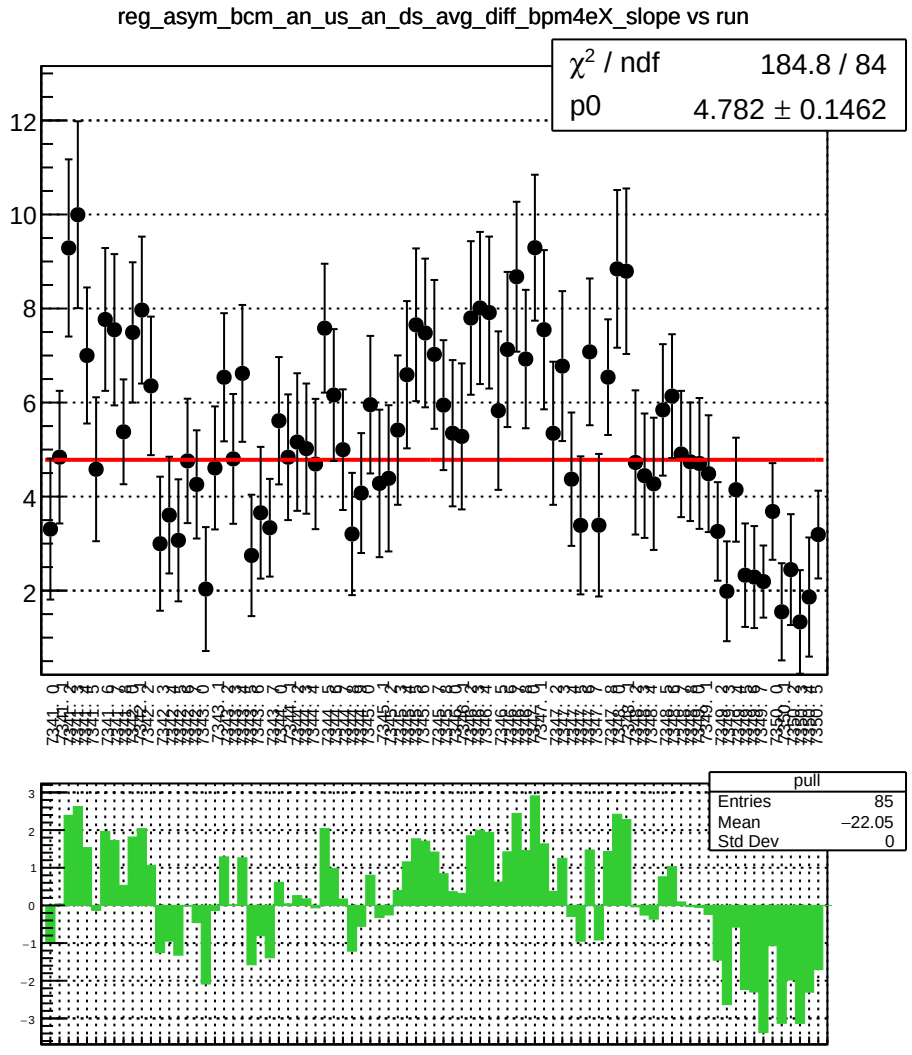

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 119.6 / 84
p0 −0.1167 ± 0.0495
pull
Entries 85
Mean −572.7
Std Dev 0

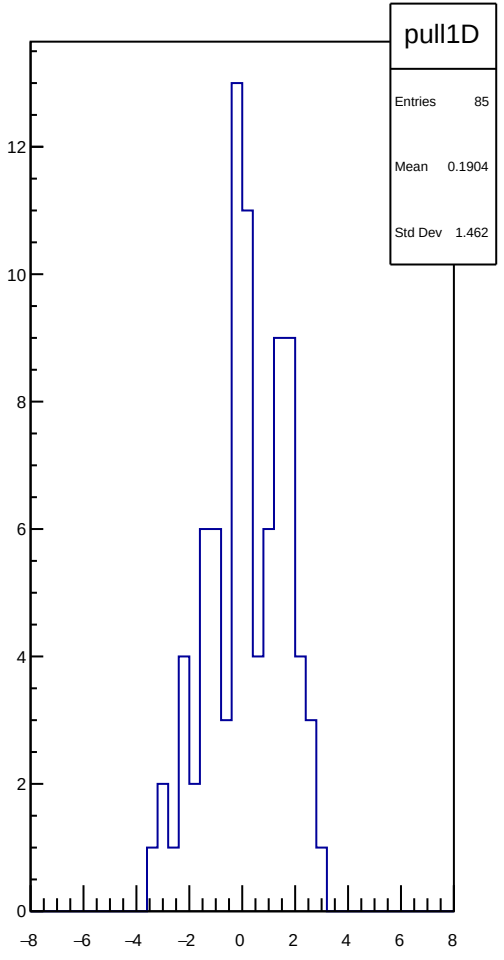

pull1D
Entries 85
Mean −0.004963
Std Dev 1.186

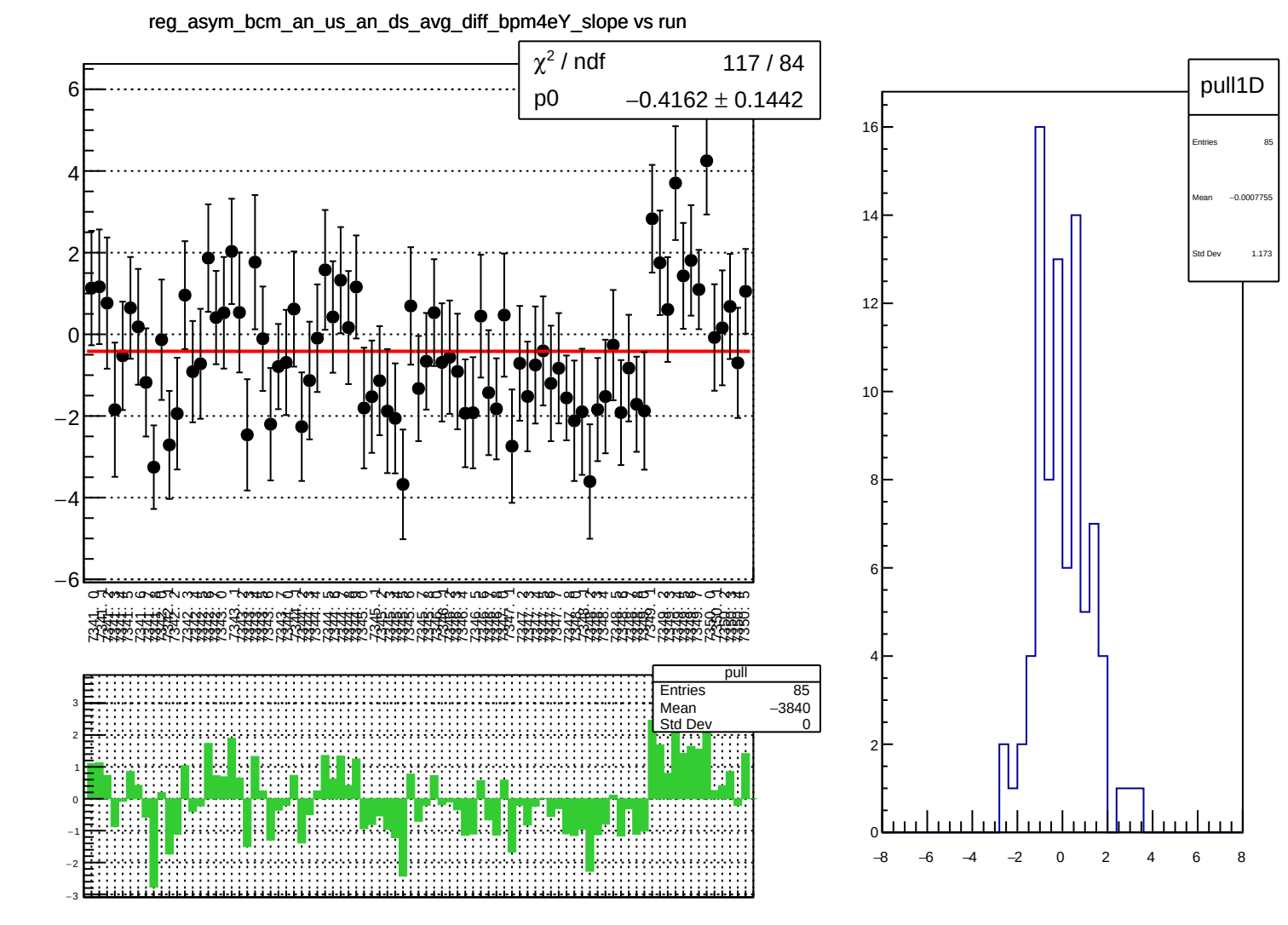

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 85.48 / 84
p0 0.007473 ± 0.002202
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 85
Mean 148.2
Std Dev 0
pull1D
Entries 85
Mean 0.0193
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

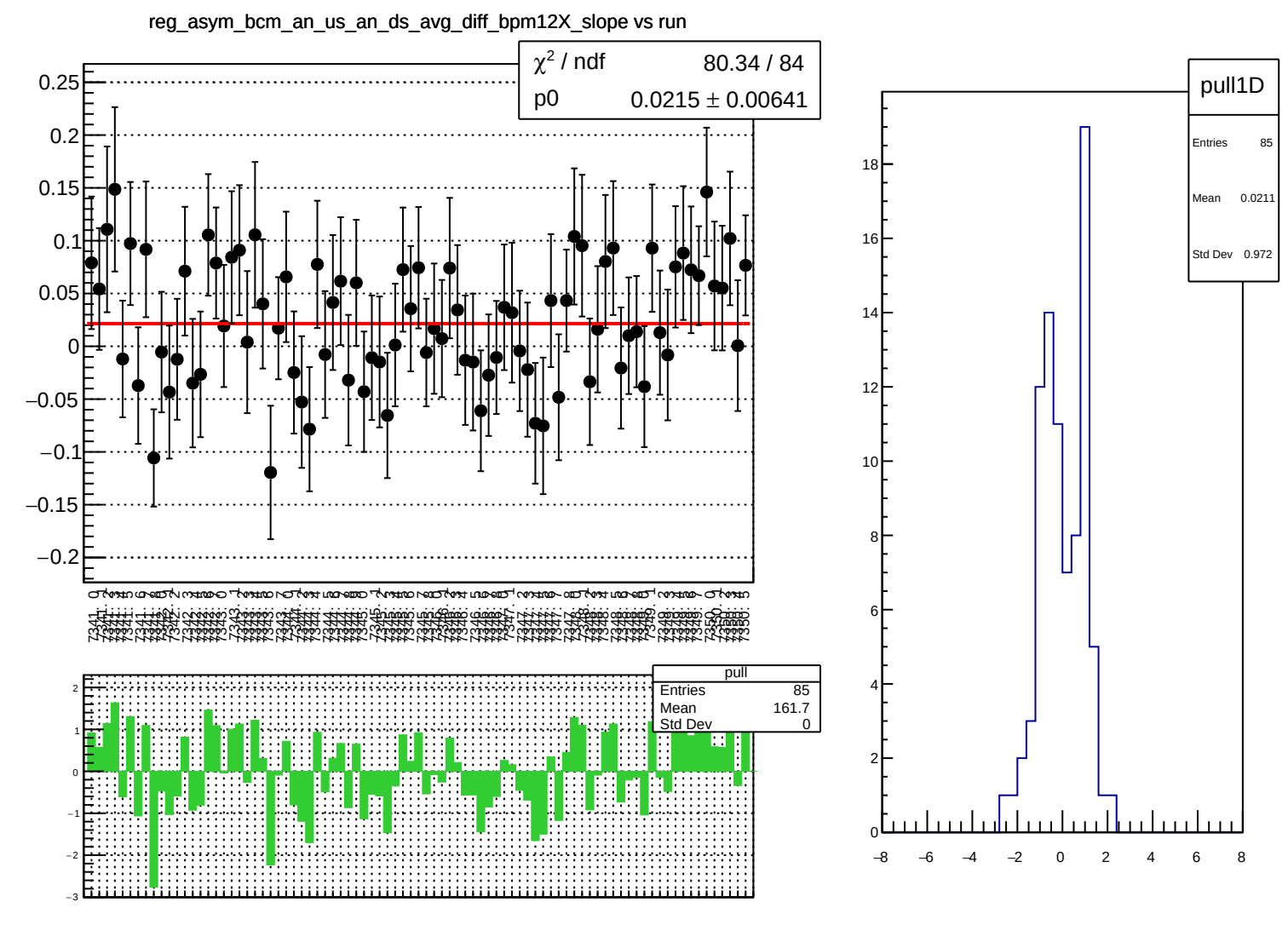

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 191.3 / 84
p0 −4.795 ± 0.1486
pull
Entries 85
Mean −29.25
Std Dev 0
pull1D
Entries 85
Mean −0.1958
Std Dev 1.487

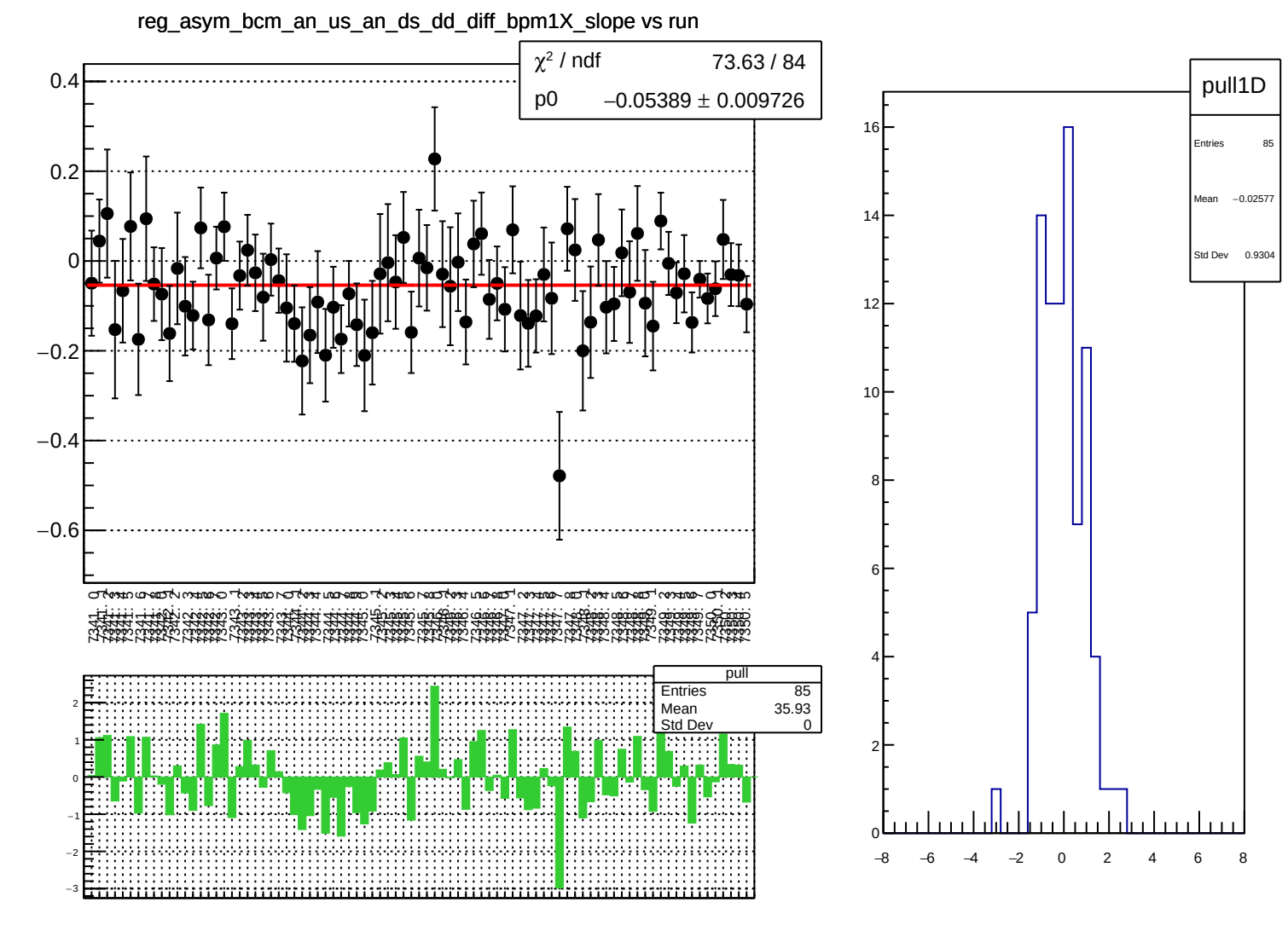

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 122.3 / 84
p0 −0.5232 ± 0.1325
pull
Entries 85
Mean 339.8
Std Dev 0
pull1D
Entries 85
Mean −0.01286
Std Dev 1.199

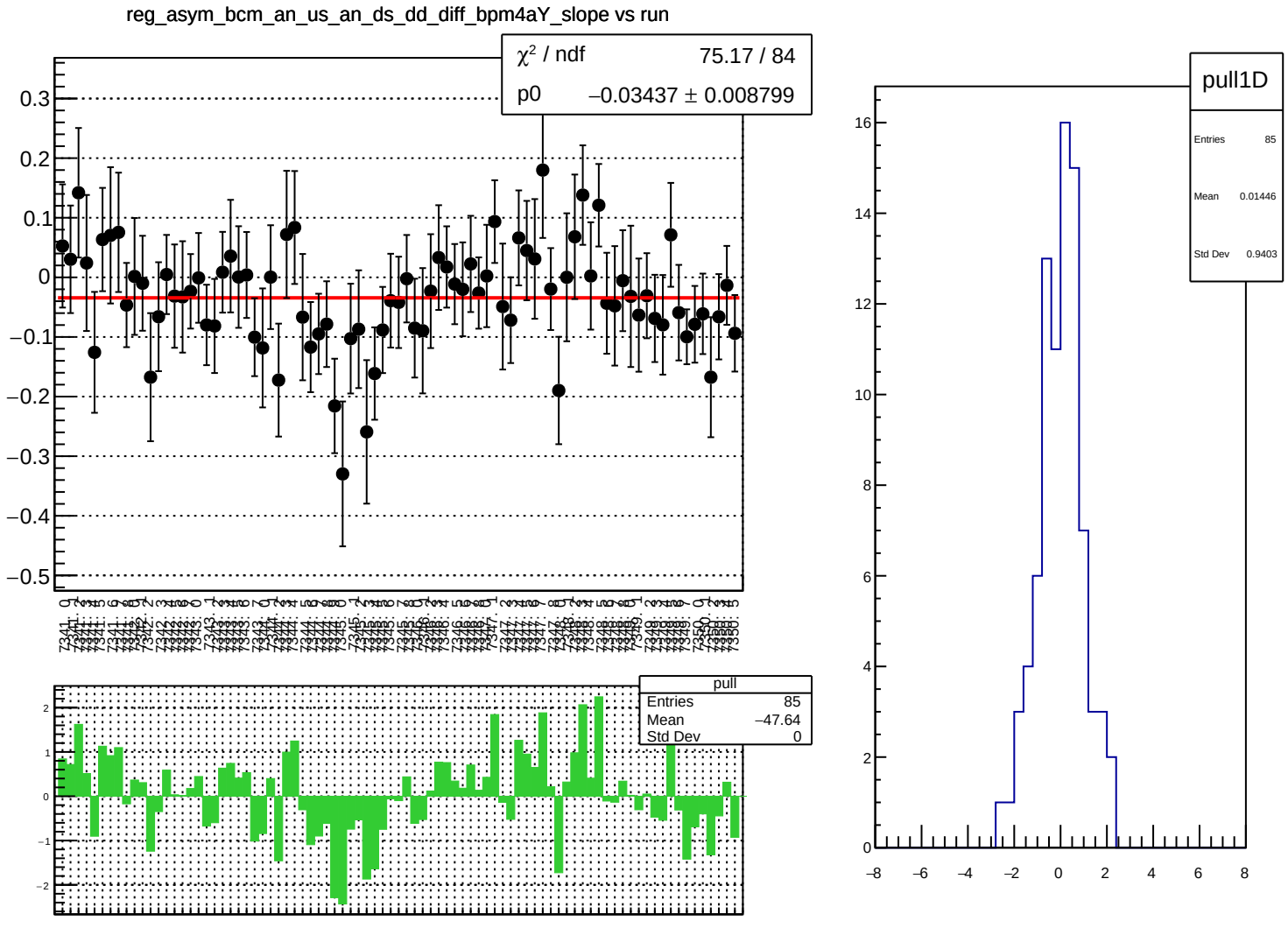

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 184.8 / 84
p0 4.782 ± 0.1462
pull
Entries 85
Mean −22.05
Std Dev 0

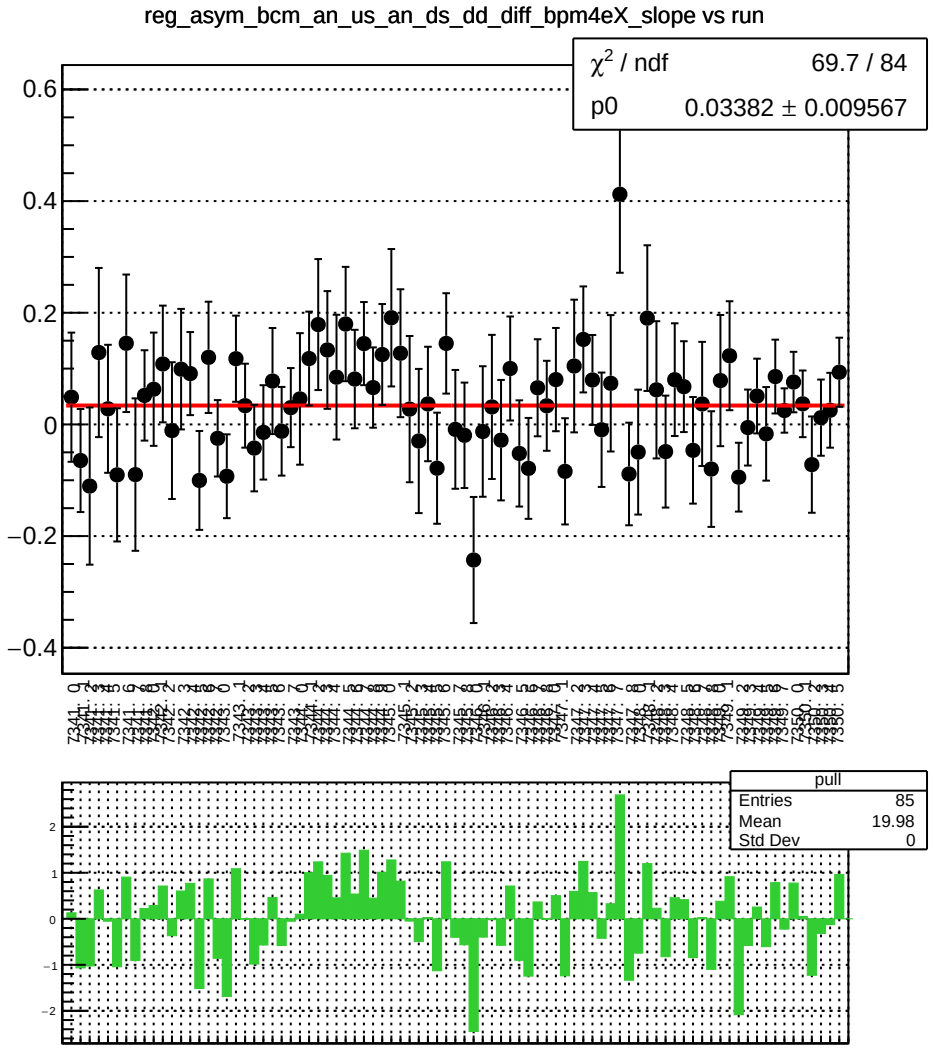

pull1D
Entries 85
Mean 0.1904
Std Dev 1.462

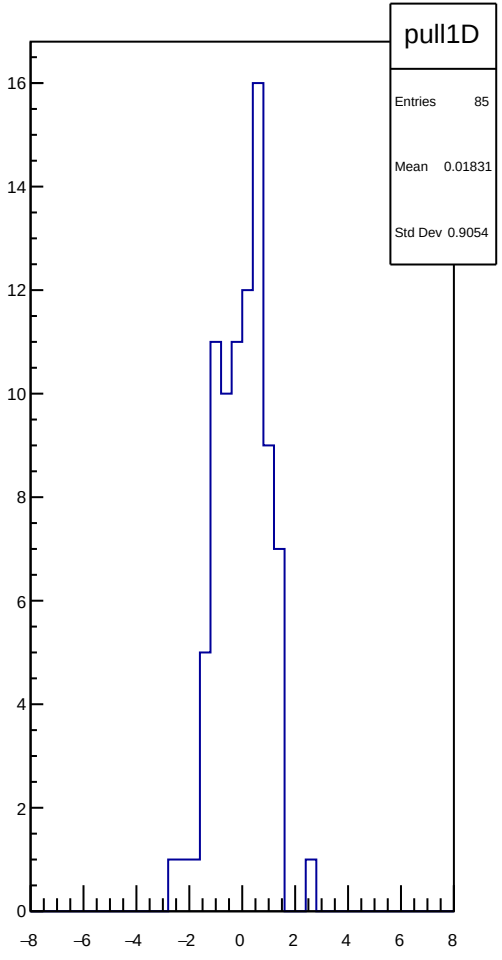

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 117 / 84
p0 −0.4162 ± 0.1442
pull
Entries 85
Mean −3840
Std Dev 0
pull1D
Entries 85
Mean −0.0007755
Std Dev 1.173

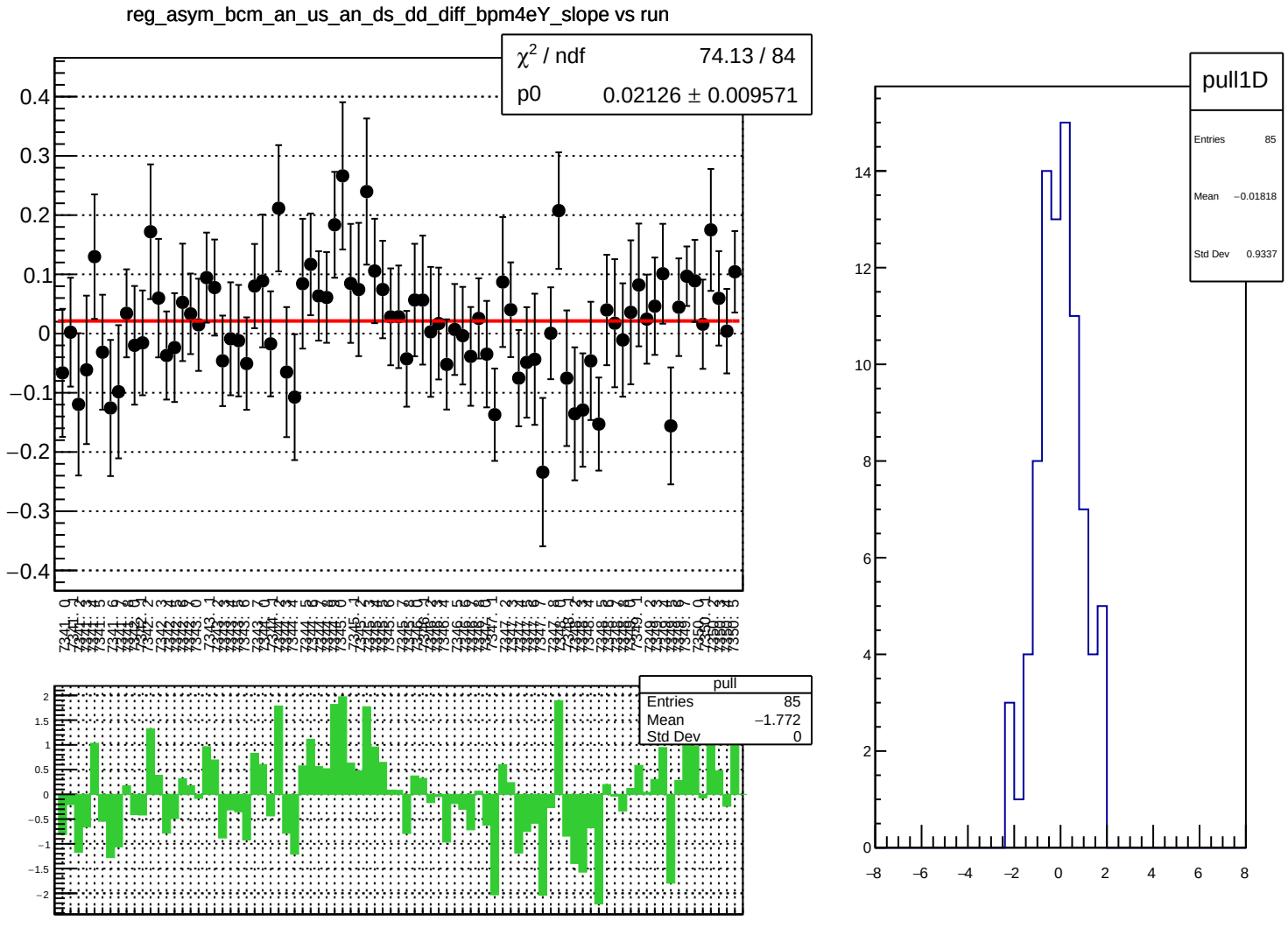

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 80.34 / 84
p0 0.0215 ± 0.00641
pull
Entries 85
Mean 161.7
Std Dev 0
pull1D
Entries 85
Mean 0.0211
Std Dev 0.972

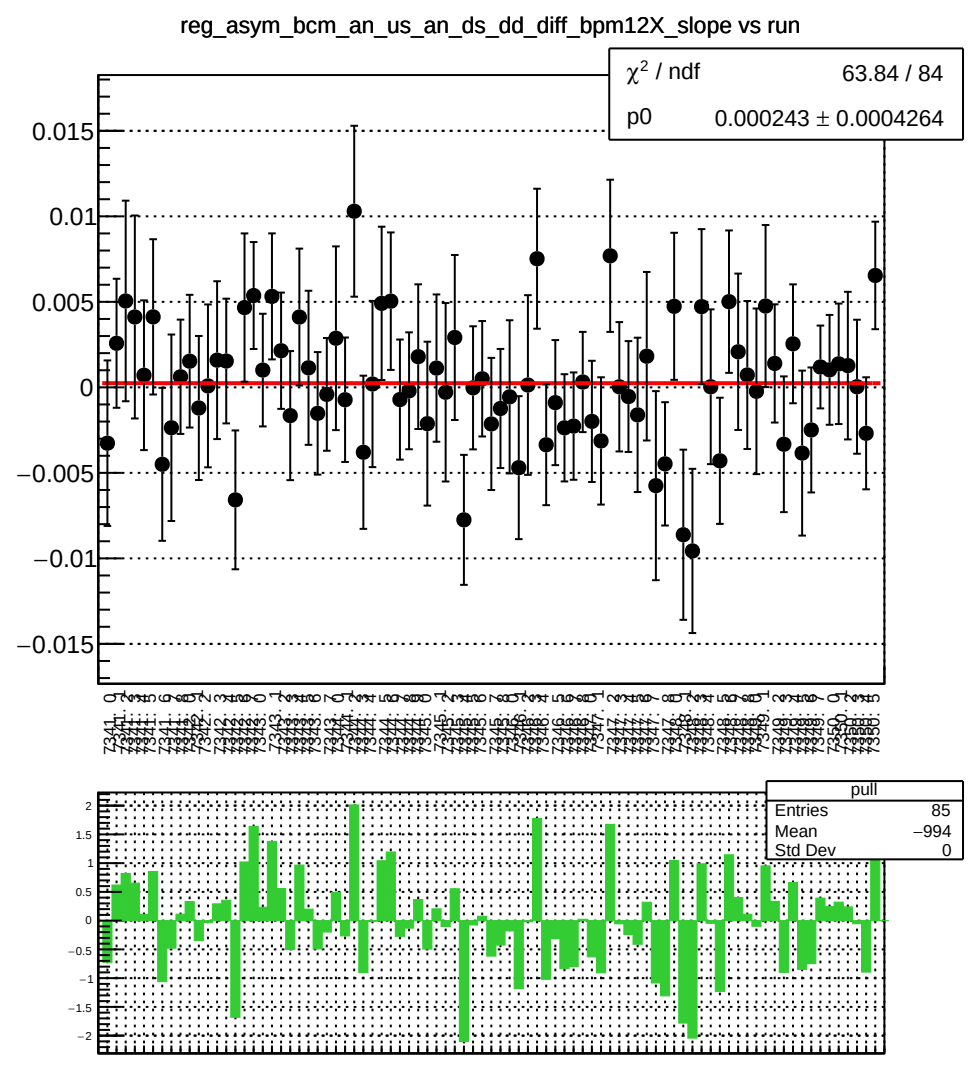

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 73.63 / 84
p0 −0.05389 ± 0.009726
pull
Entries 85
Mean 35.93
Std Dev 0
pull1D
Entries 85
Mean −0.02577
Std Dev 0.9304

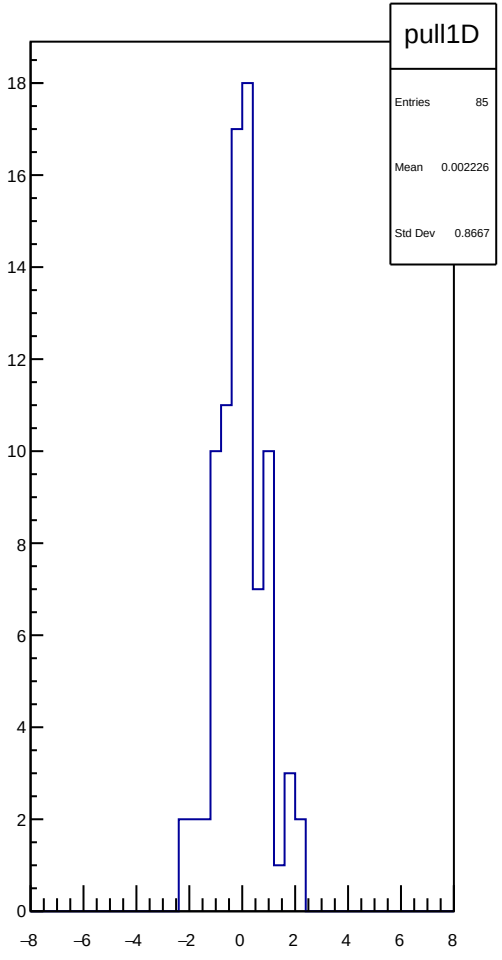

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.17 / 84
p0 −0.03437 ± 0.008799
pull
Entries 85
Mean −47.64
Std Dev 0
pull1D
Entries 85
Mean 0.01446
Std Dev 0.9403

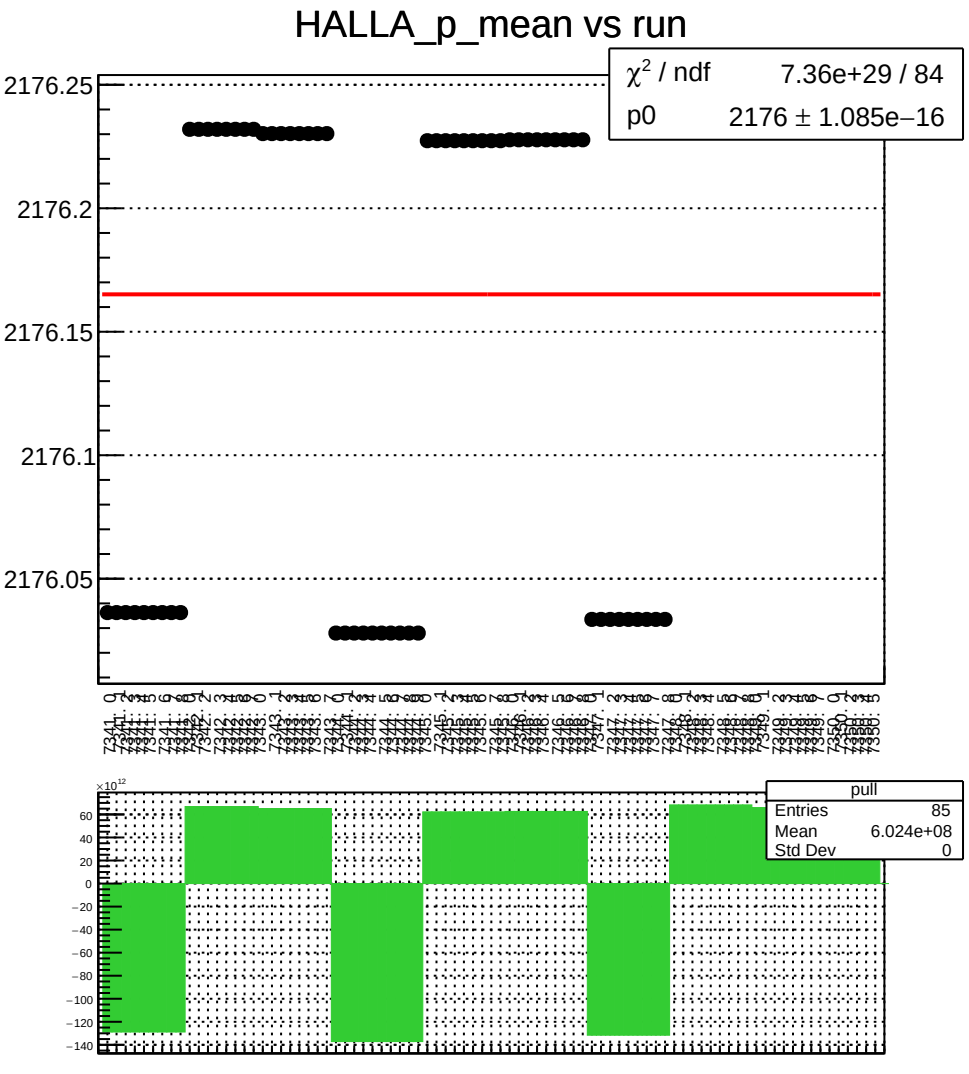

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.7 / 84
p0 0.03382 ± 0.009567
pull
Entries 85
Mean 19.98
Std Dev 0

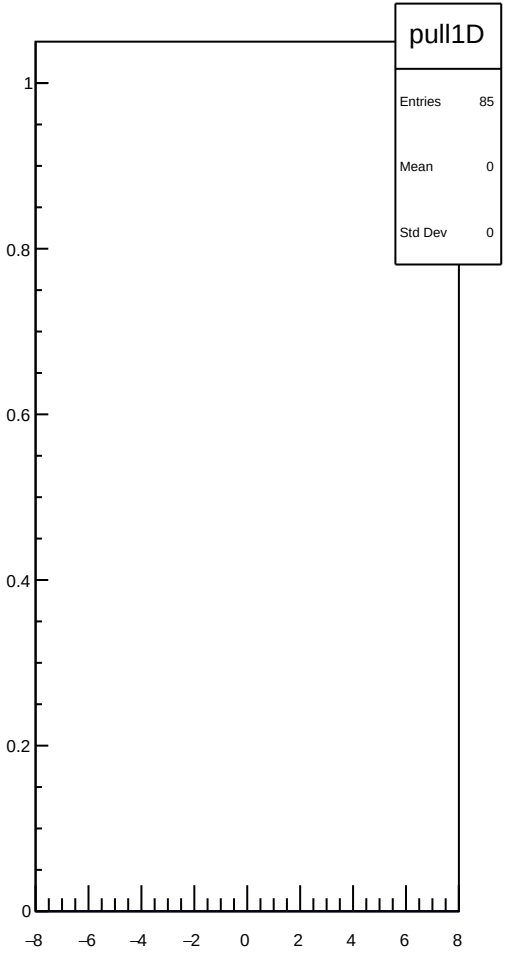

pull1D
Entries 85
Mean 0.01831
Std Dev 0.9054

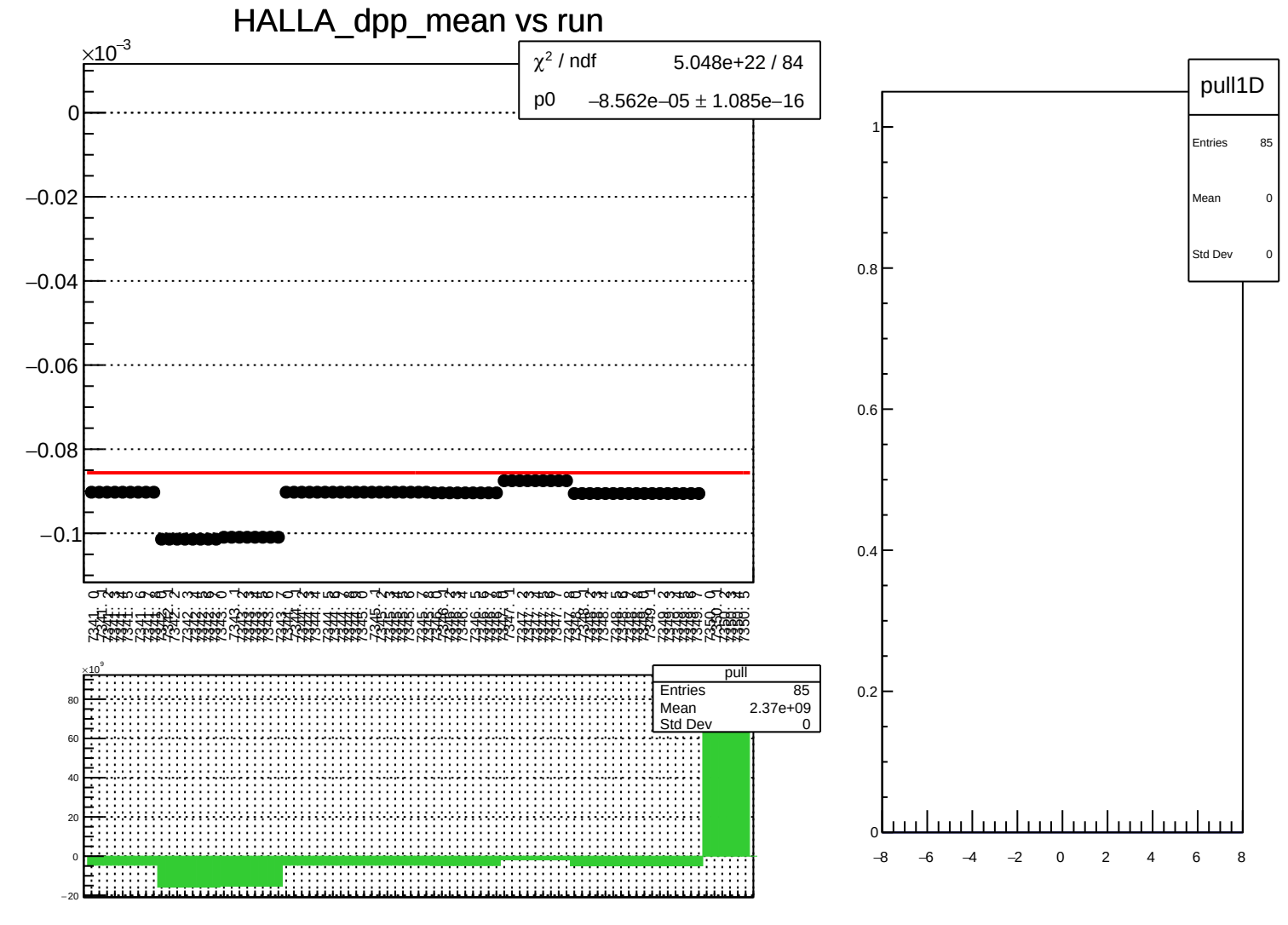

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.13 / 84
p0 0.02126 ± 0.009571
pull
Entries 85
Mean −1.772
Std Dev 0
pull1D
Entries 85
Mean −0.01818
Std Dev 0.9337

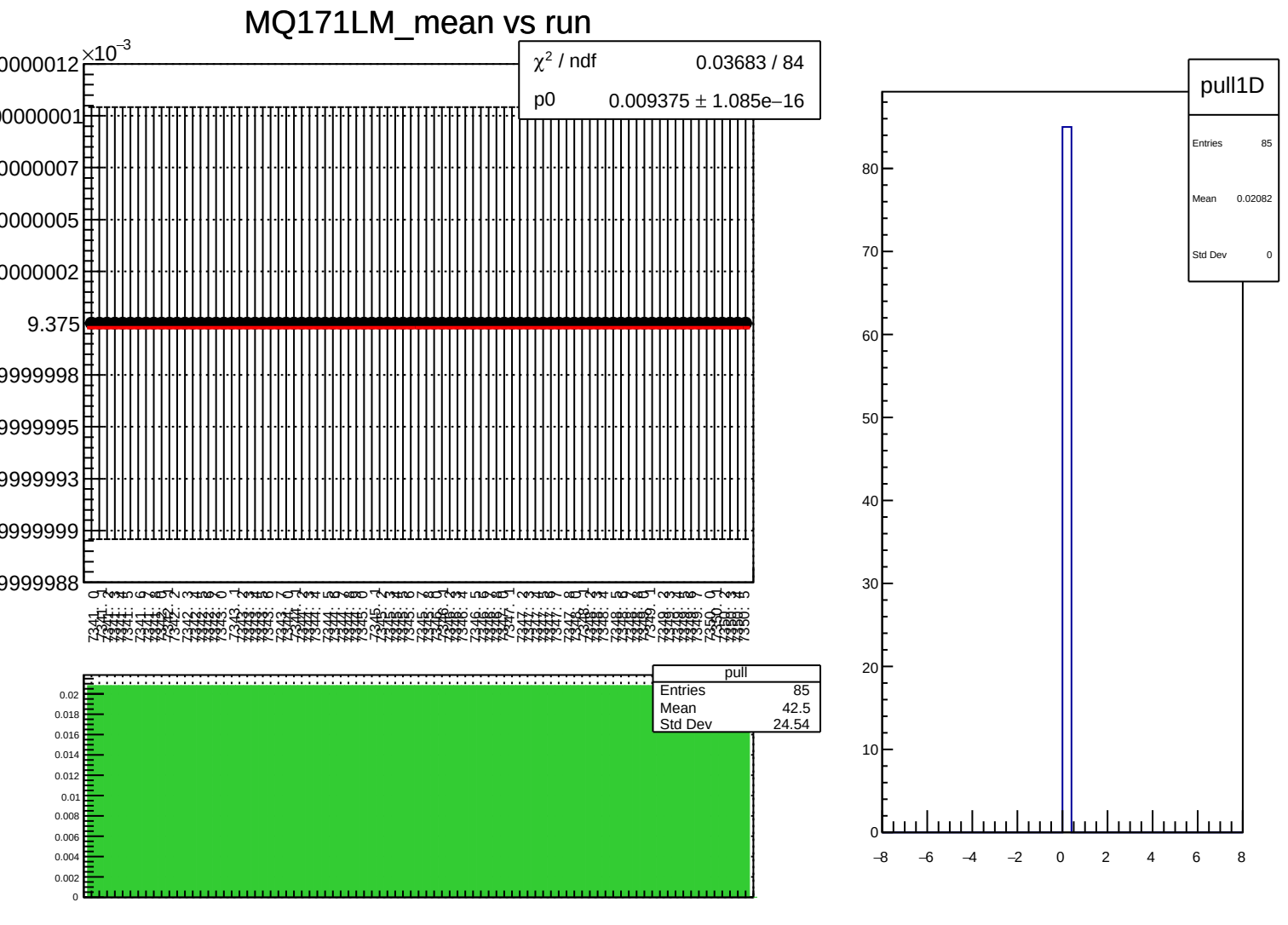

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 63.84 / 84
p0 0.000243 ± 0.0004264
pull
Entries 85
Mean −994
Std Dev 0

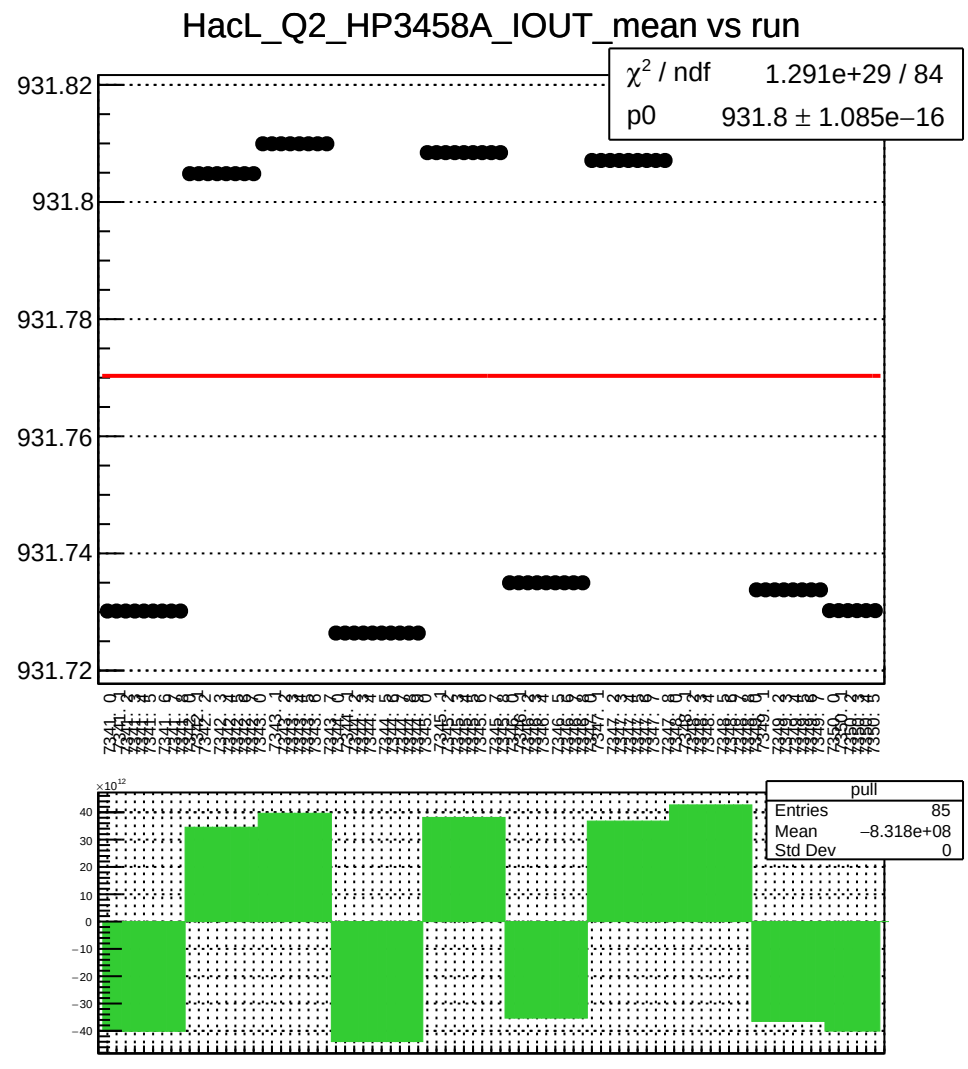

pull1D
Entries 85
Mean 0.002226
Std Dev 0.8667

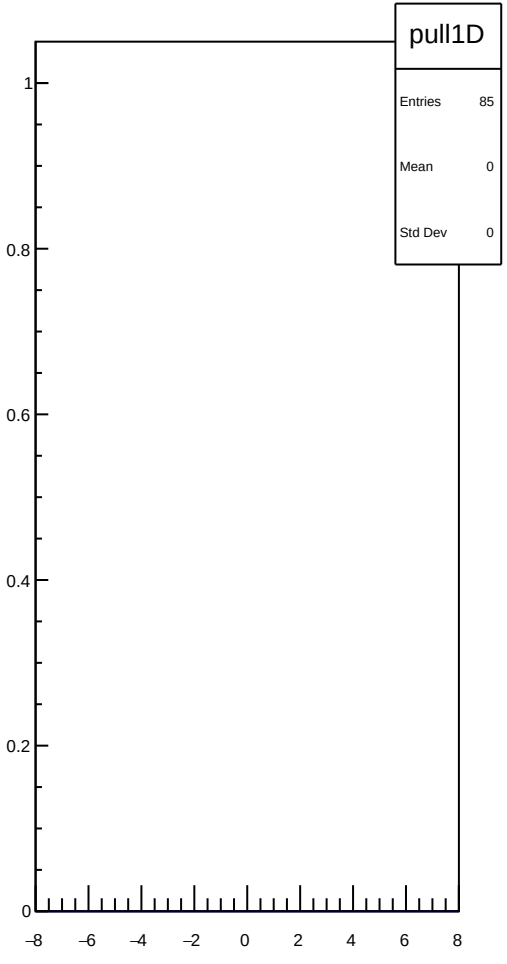

HALLA_p_mean vs run
χ² / ndf 7.36e+29 / 84
p0 2176 ± 1.085e−16
2176.25
2176.2
2176.15
2176.1
2176.05
pull
Entries 85
Mean 6.024e+08
Std Dev 0
×10¹²
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

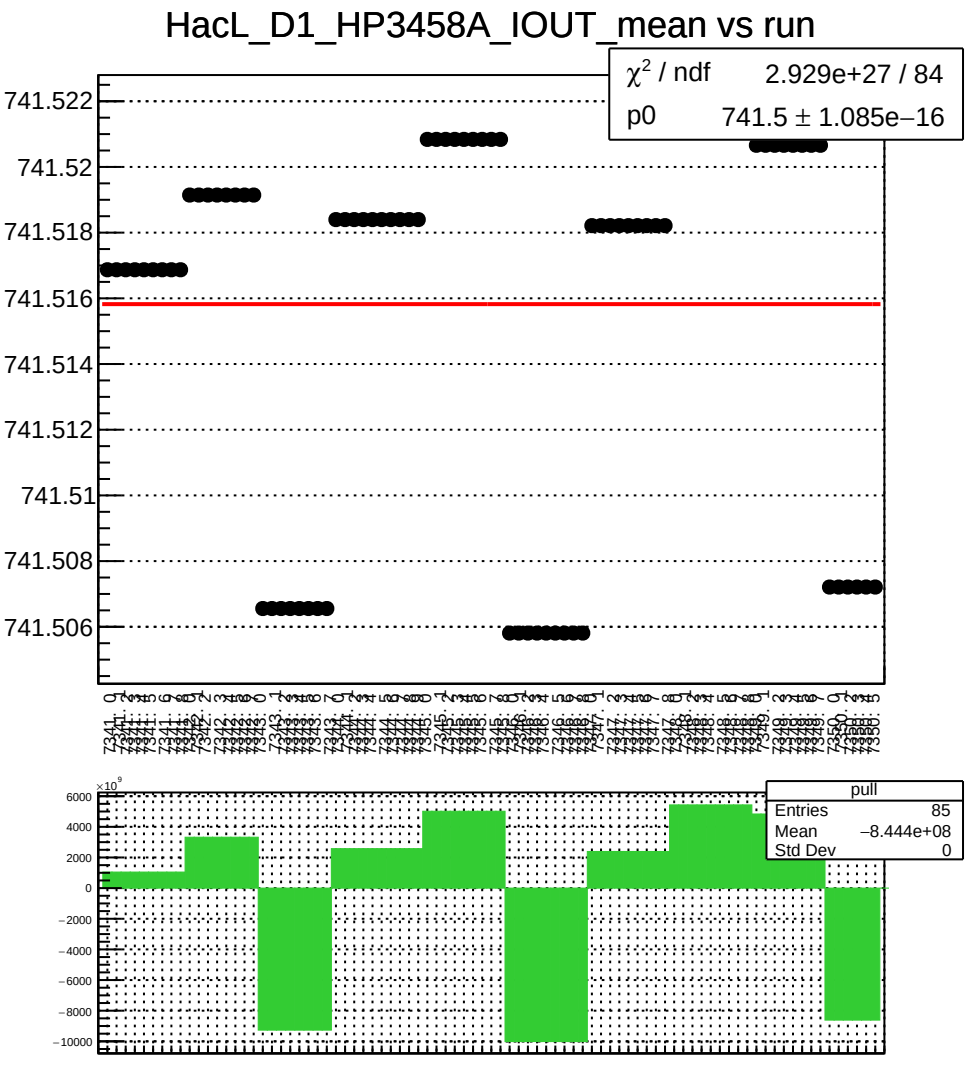

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

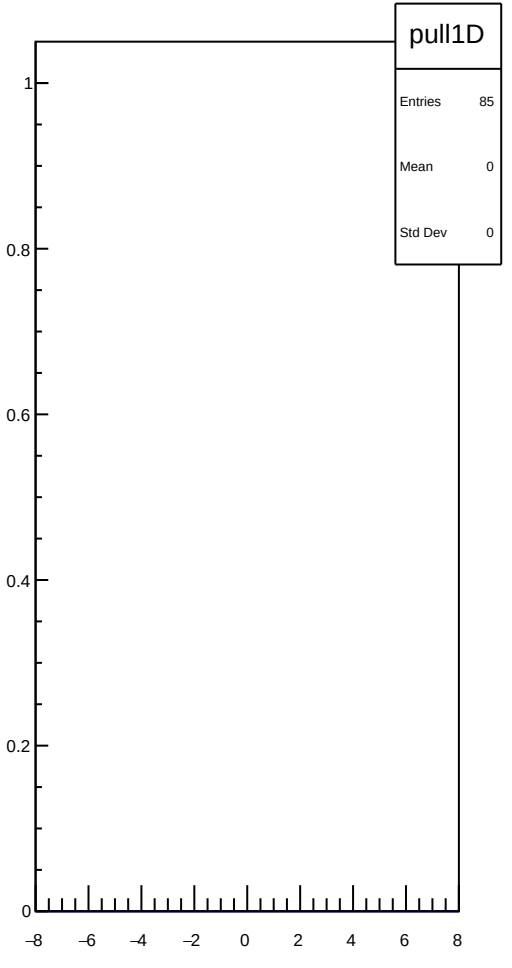

HALLA_dpp_mean vs run
χ² / ndf 5.048e+22 / 84
p0 −8.562e−05 ± 1.085e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 85
Mean 2.37e+09
Std Dev 0
×10⁹
80
60
40
20
0
−20
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

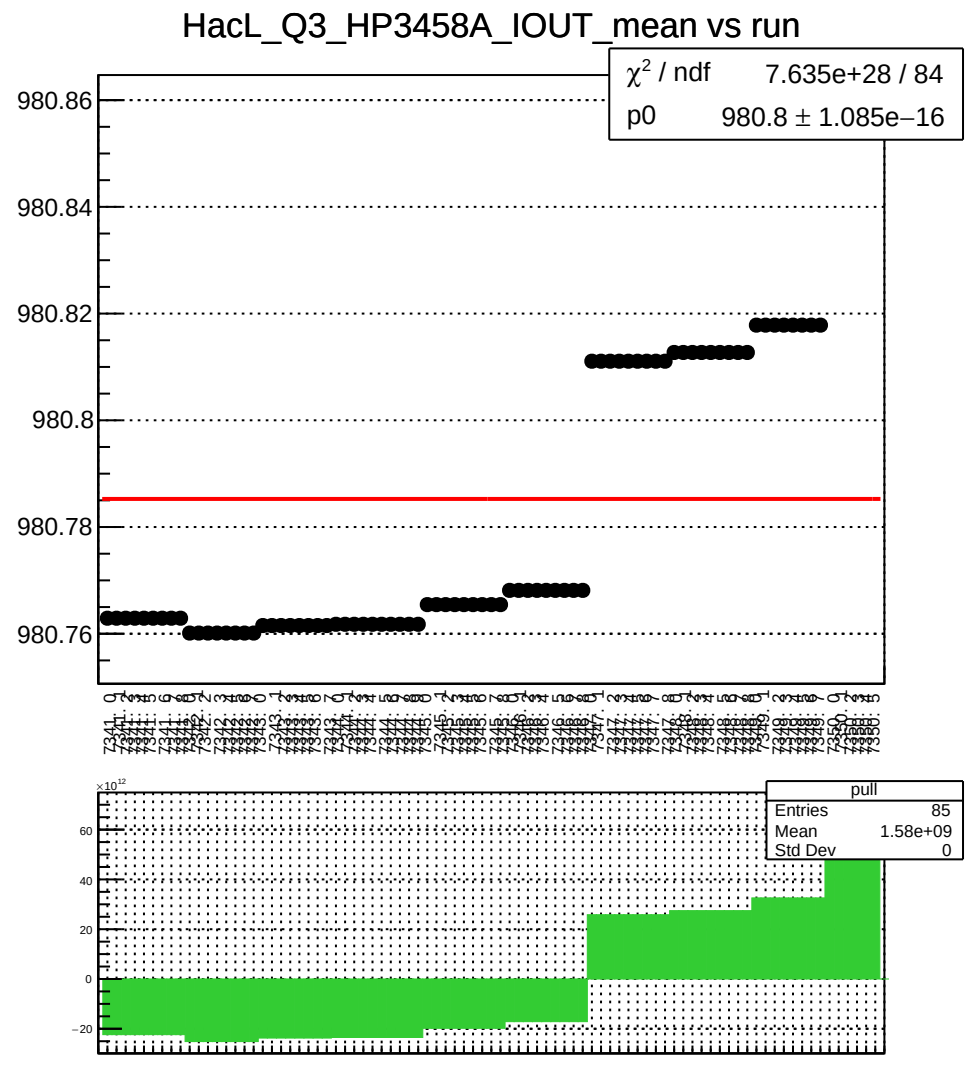

MQ171LM_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54
pull1D
Entries 85
Mean 0.02082
Std Dev 0

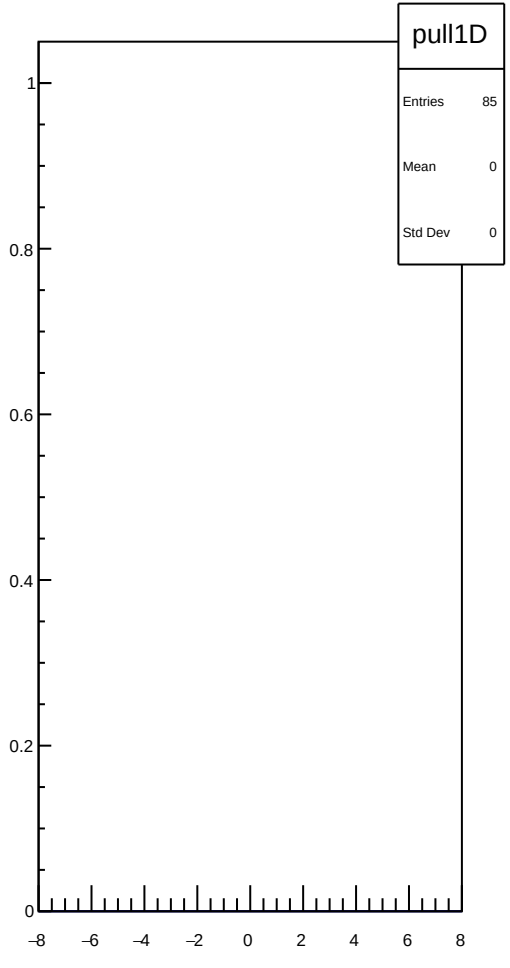

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.291e+29 / 84
p0 931.8 ± 1.085e−16
931.82
931.8
931.78
931.76
931.74
931.72
pull
Entries 85
Mean −8.318e+08
Std Dev 0
×10¹²
40
30
20
10
0
−10
−20
−30
−40

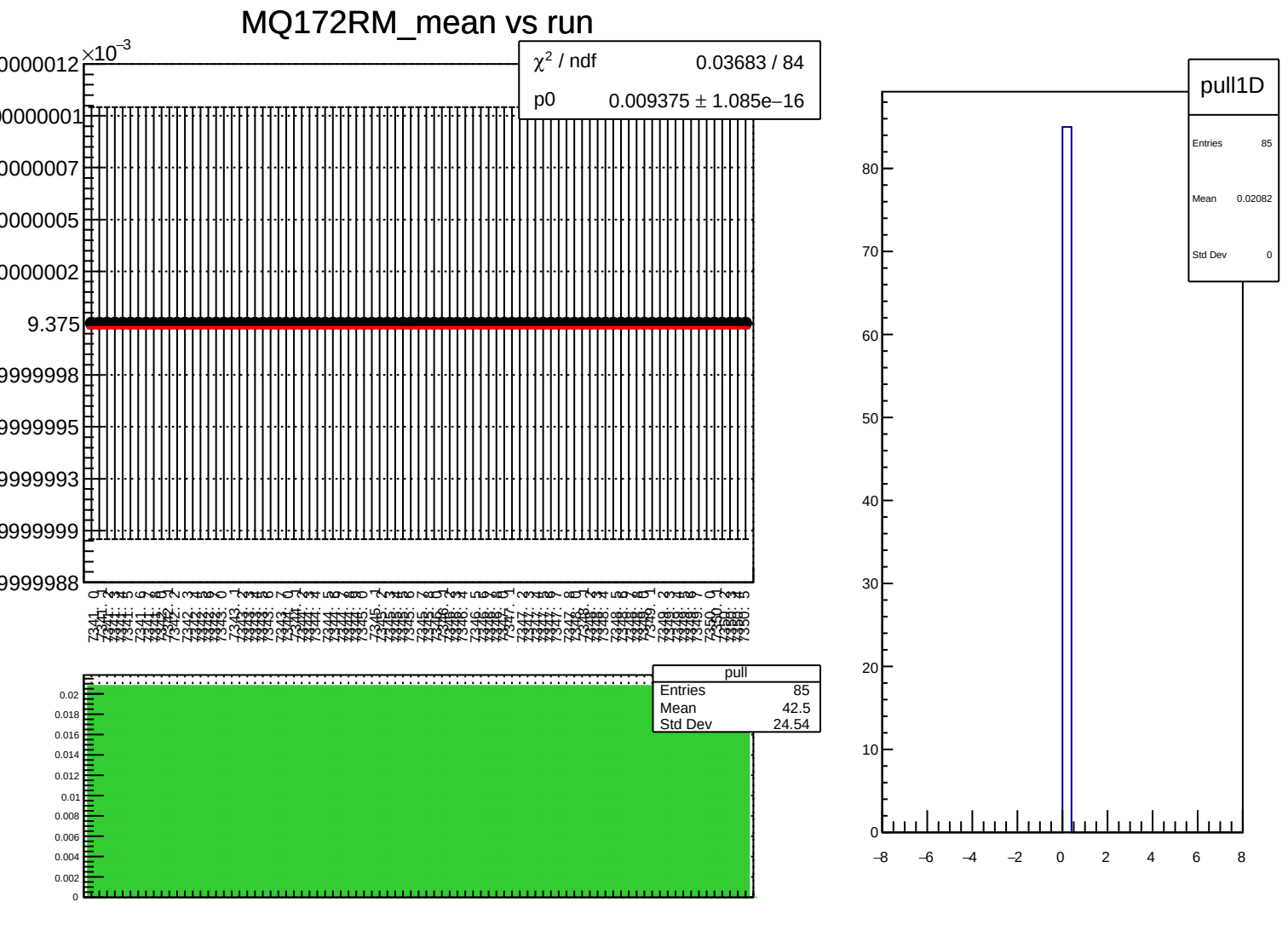

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

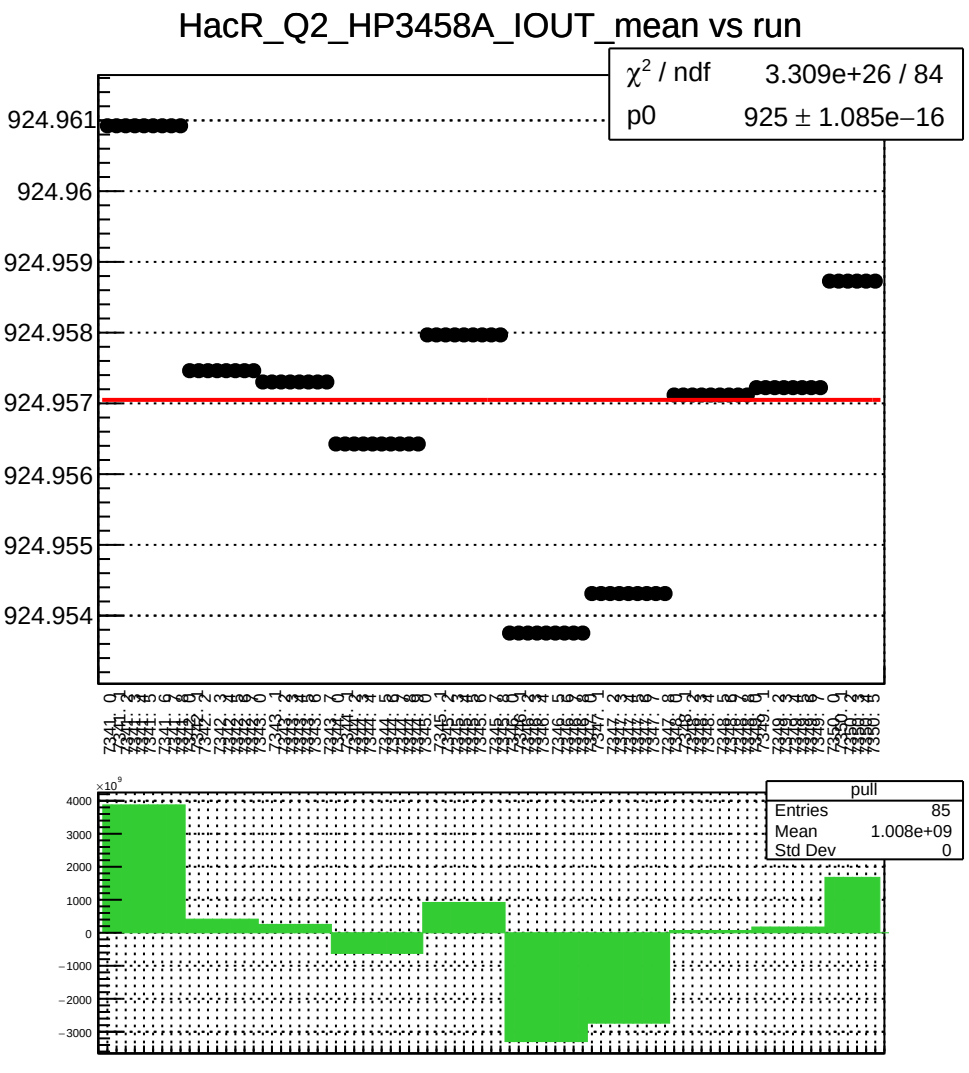

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.929e+27 / 84
p0 741.5 ± 1.085e−16
741.522
741.52
741.518
741.516
741.514
741.512
741.51
741.508
741.506
pull
Entries 85
Mean −8.444e+08
Std Dev 0
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000

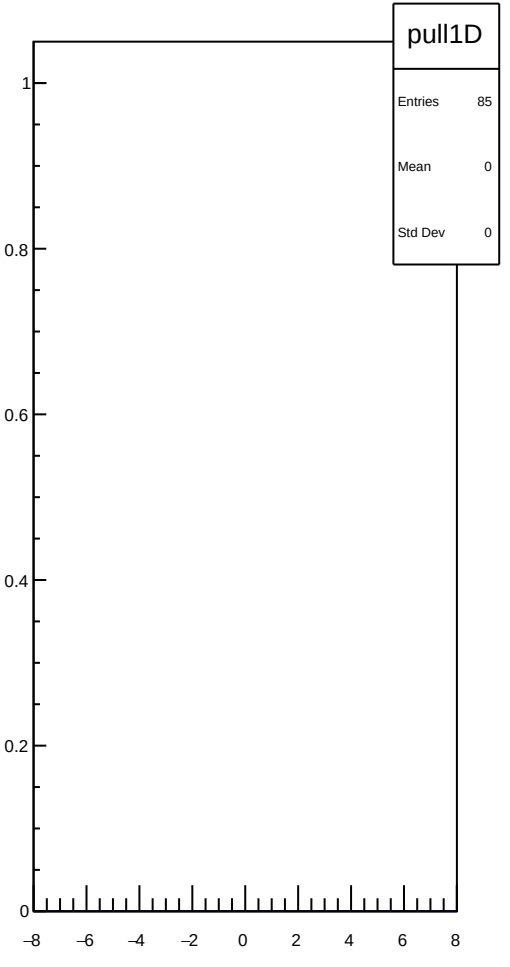

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

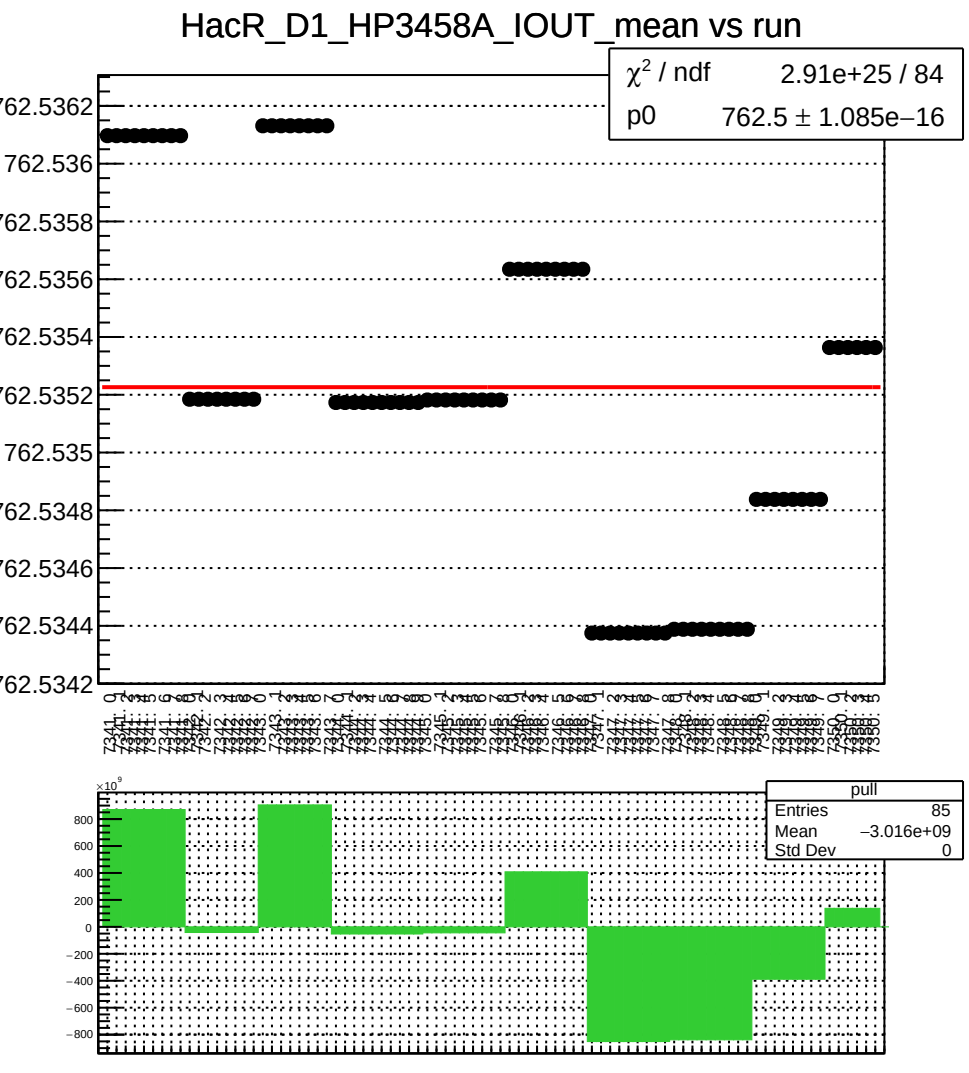

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 7.635e+28 / 84
p0 980.8 ± 1.085e−16
980.86
980.84
980.82
980.8
980.78
980.76
pull
Entries 85
Mean 1.58e+09
Std Dev 0
×10¹²
60
40
20
0
−20

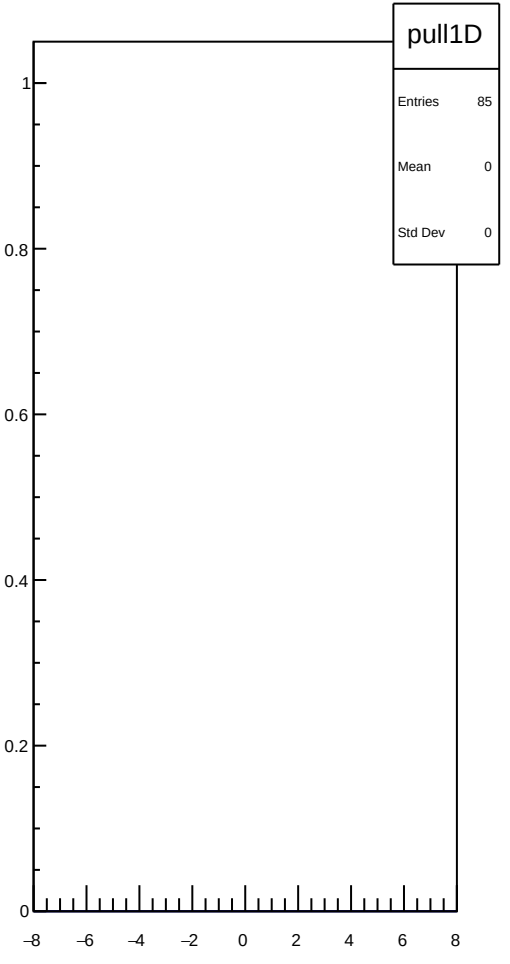

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

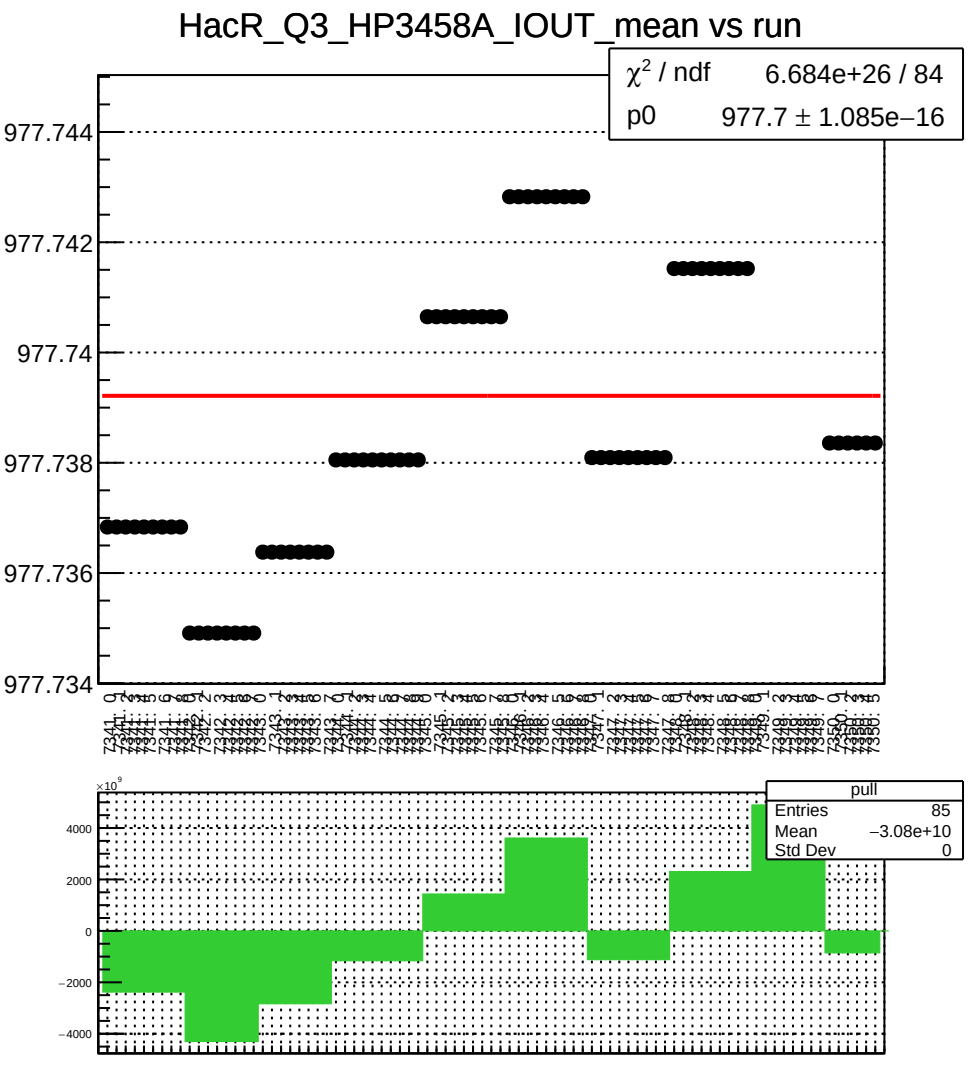

MQ172RM_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54
pull1D
Entries 85
Mean 0.02082
Std Dev 0

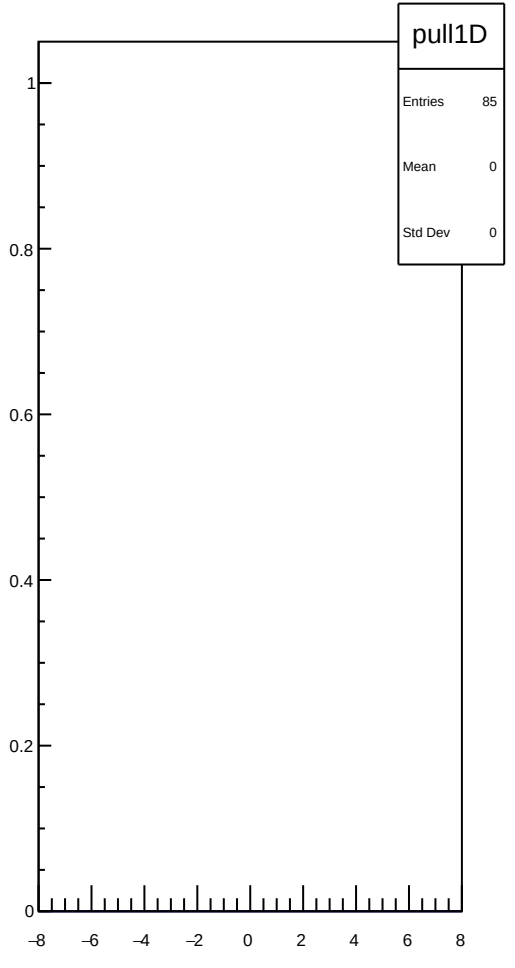

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.309e+26 / 84
p0 925 ± 1.085e−16
924.961
924.96
924.959
924.958
924.957
924.956
924.955
924.954
pull
Entries 85
Mean 1.008e+09
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000

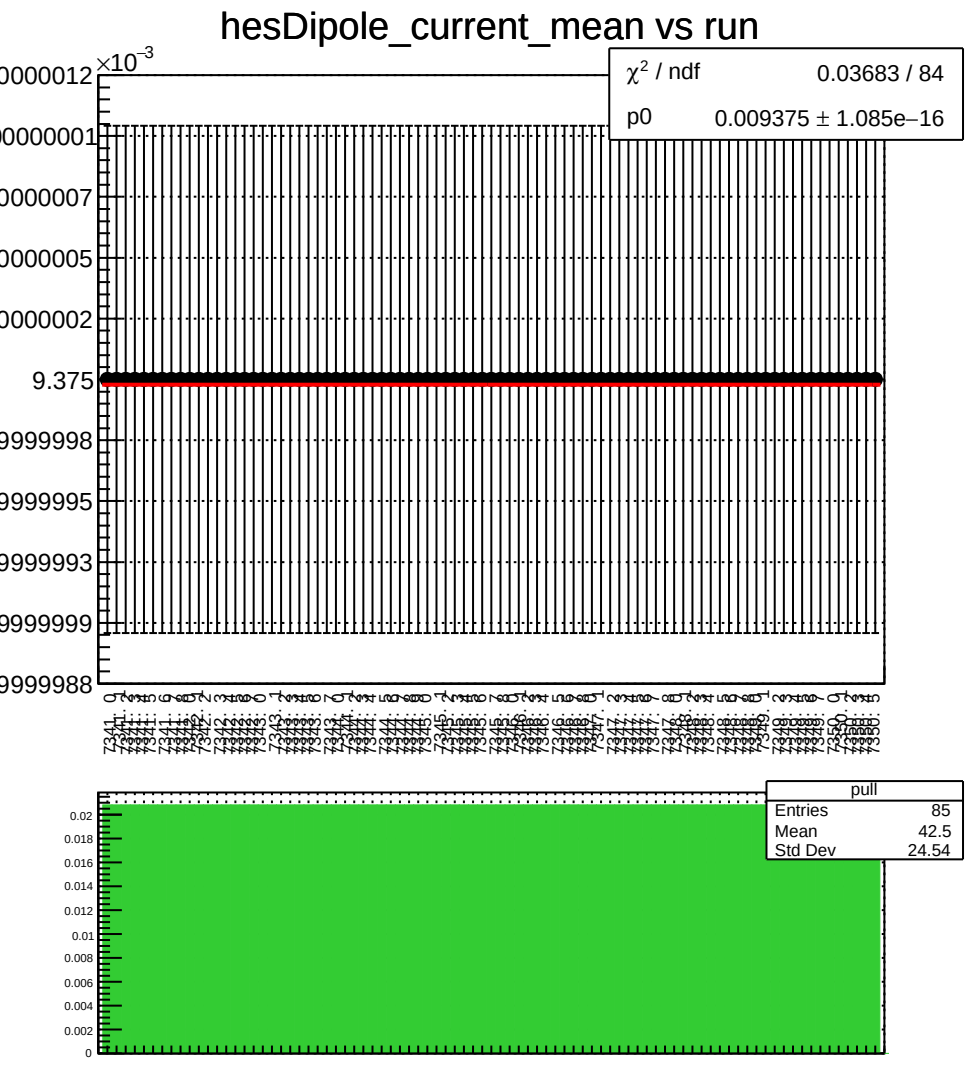

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

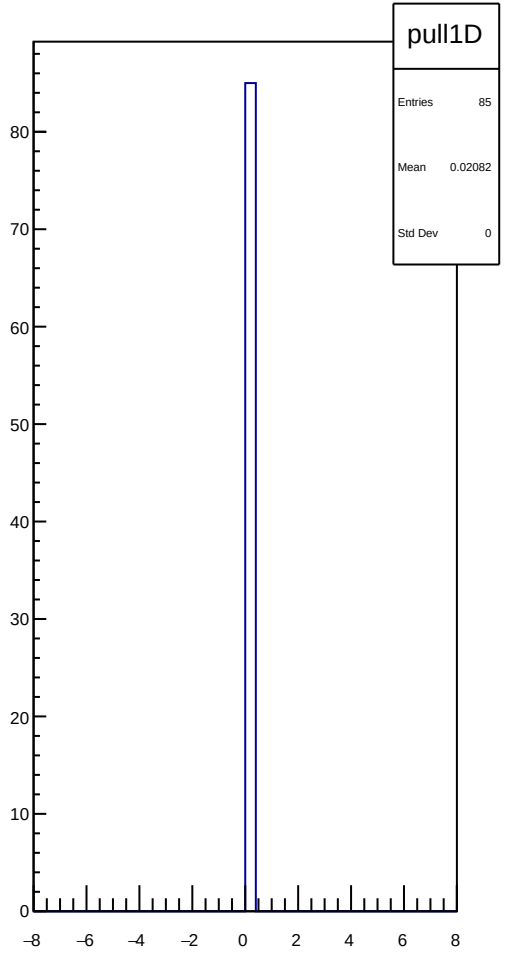

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.91e+25 / 84
p0 762.5 ± 1.085e−16
762.5362
762.536
762.5358
762.5356
762.5354
762.5352
762.535
762.5348
762.5346
762.5344
762.5342
×10⁹
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 85
Mean −3.016e+09
Std Dev 0

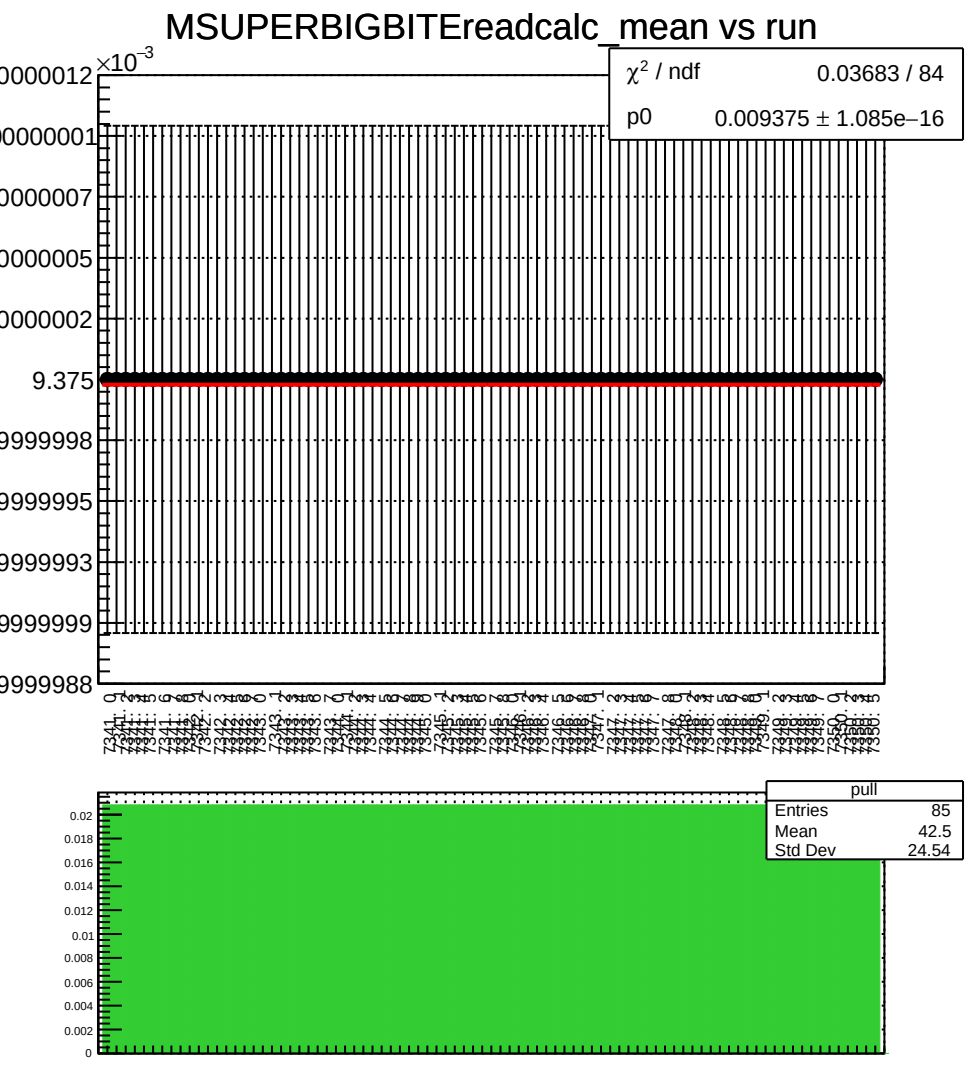

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

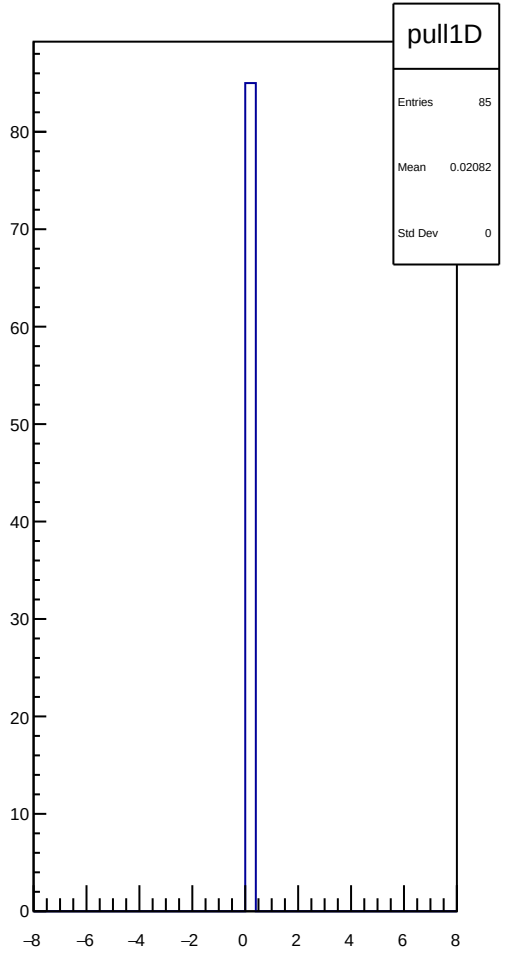

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.684e+26 / 84
p0 977.7 ± 1.085e−16
977.744
977.742
977.74
977.738
977.736
977.734
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 85
Mean −3.08e+10
Std Dev 0

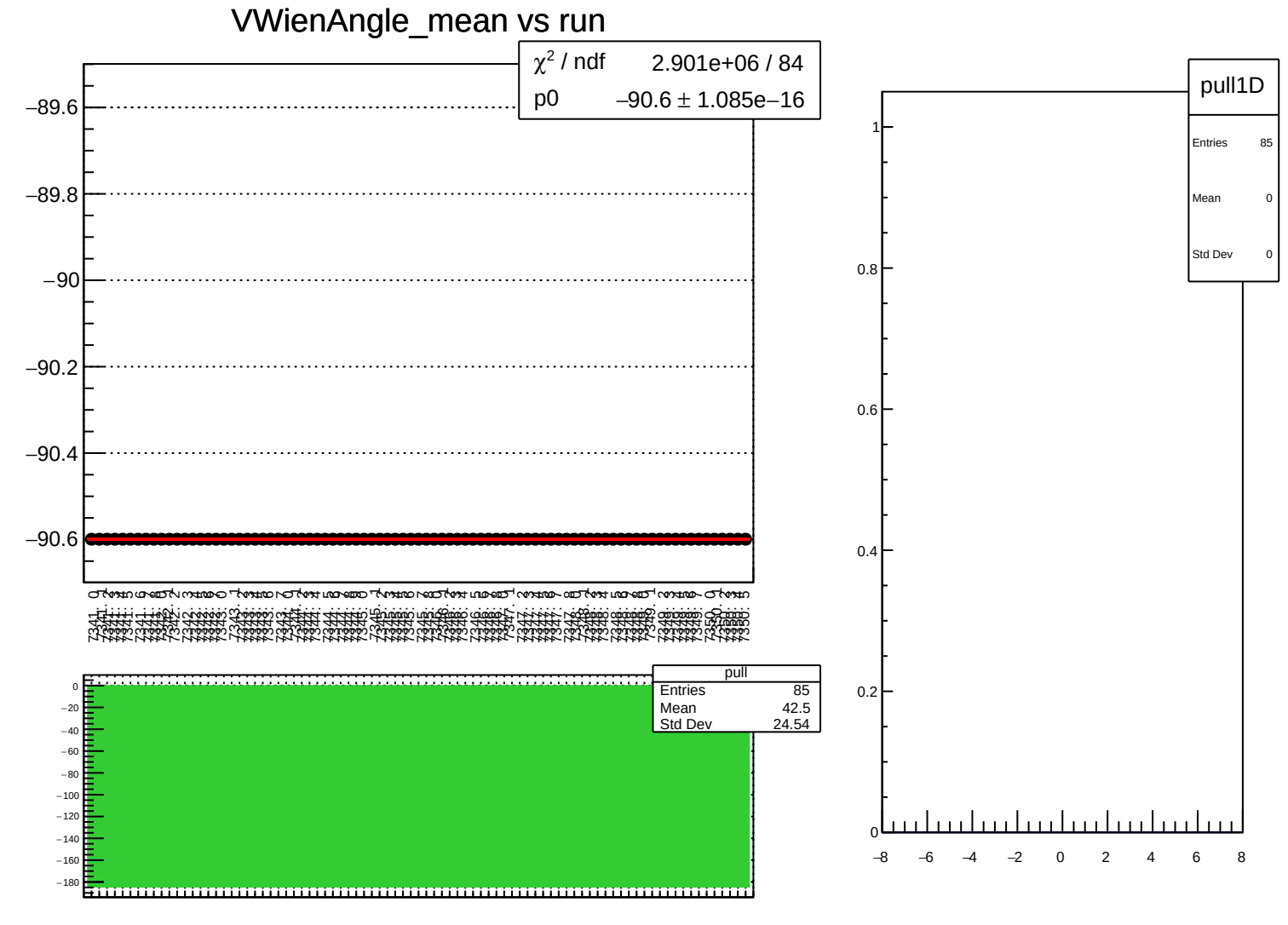

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

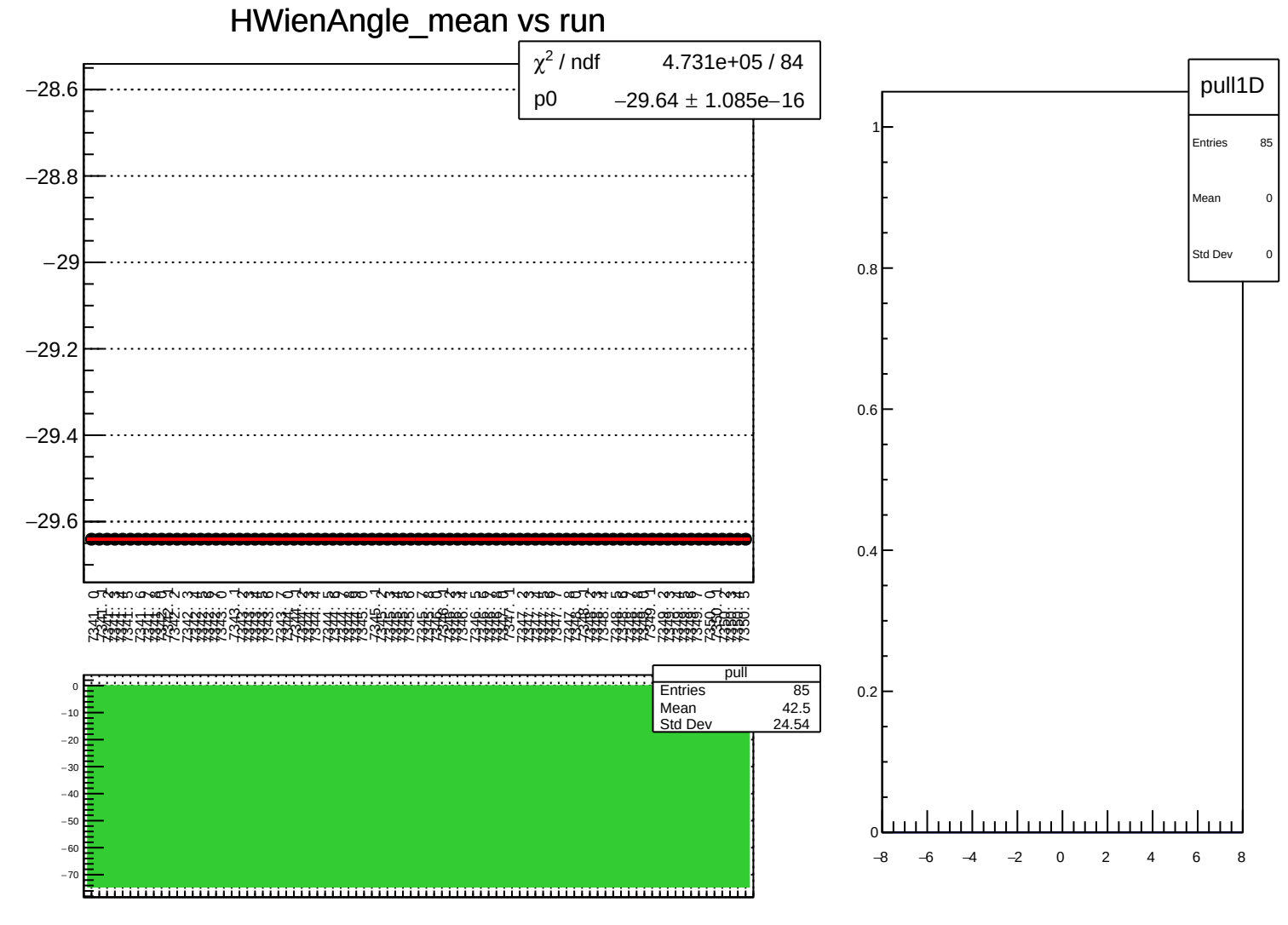

hesDipole_current_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54

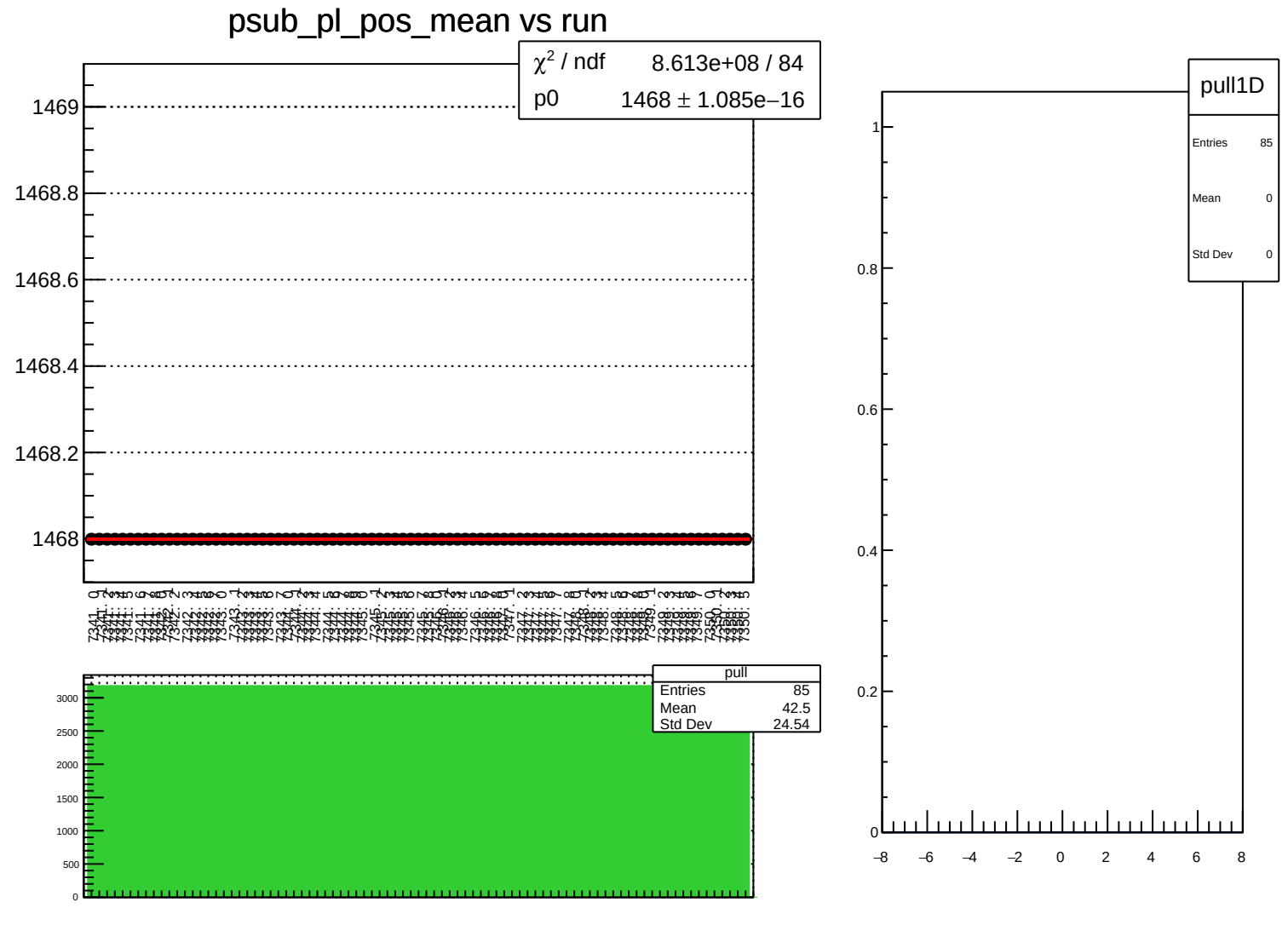

pull1D
Entries 85
Mean 0.02082
Std Dev 0

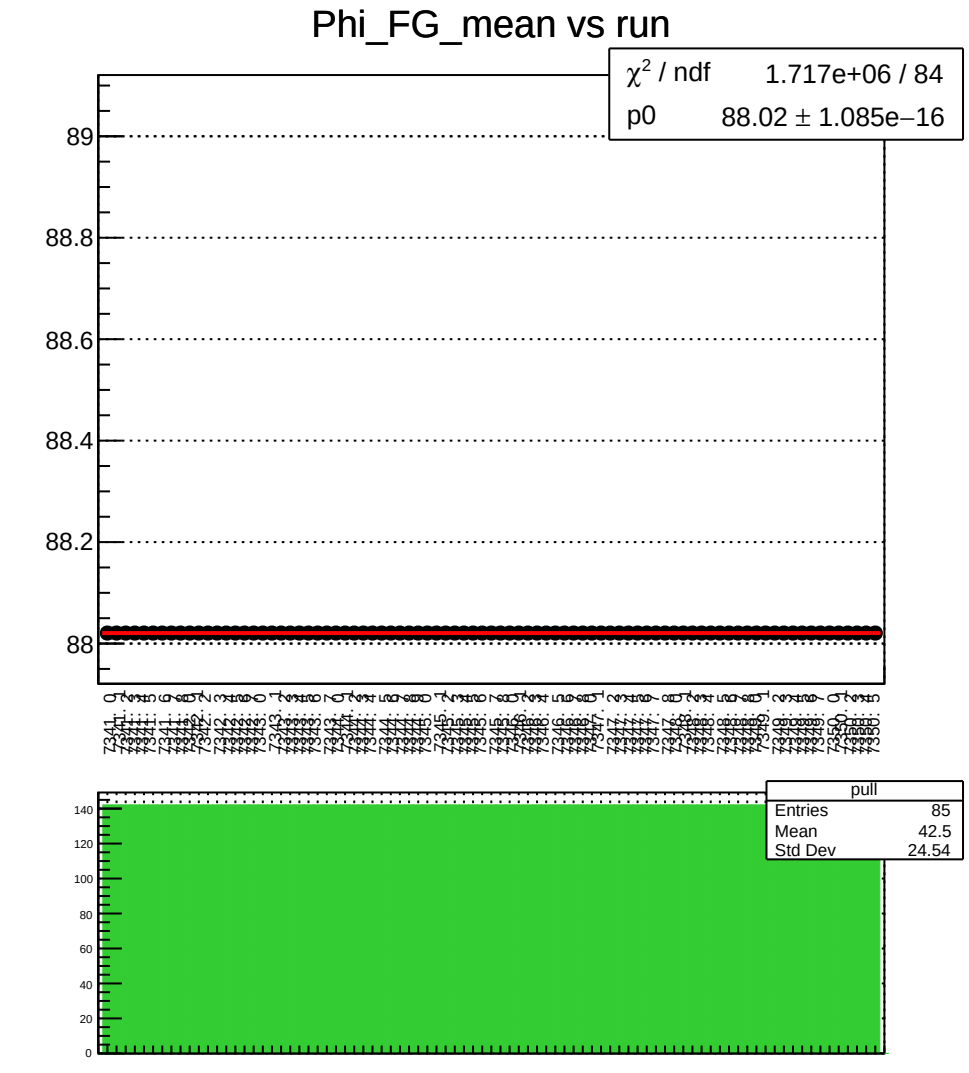

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54

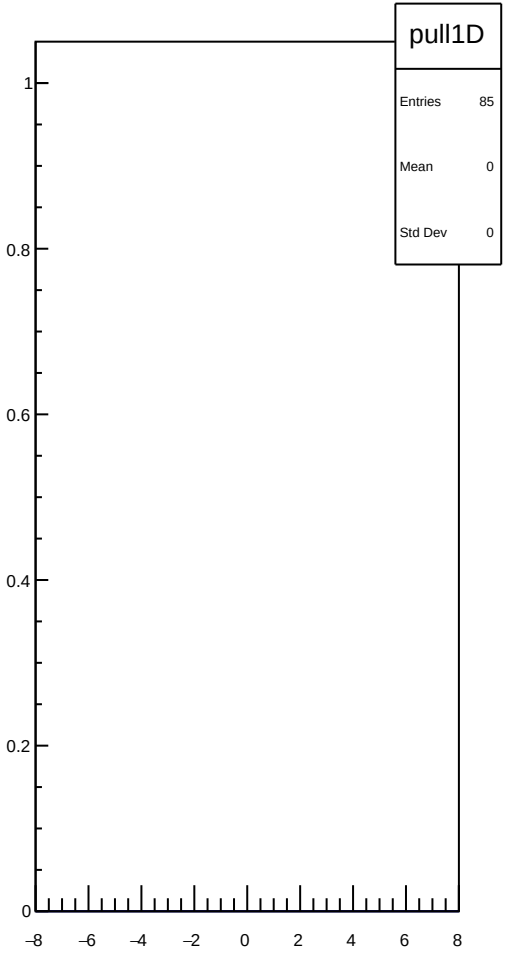

pull1D
Entries 85
Mean 0.02082
Std Dev 0

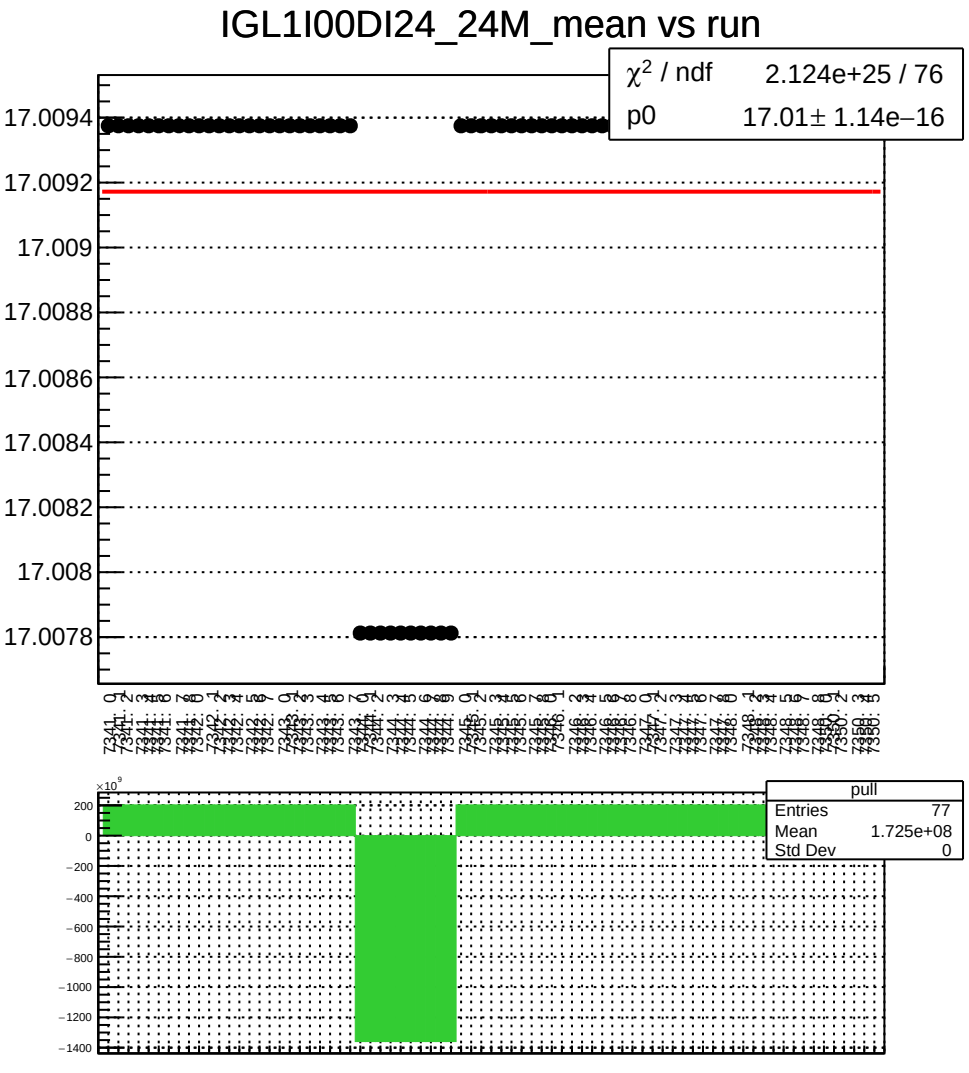

VWienAngle_mean vs run
χ² / ndf 2.901e+06 / 84
p0 −90.6 ± 1.085e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 85
Mean 42.5
Std Dev 24.54
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

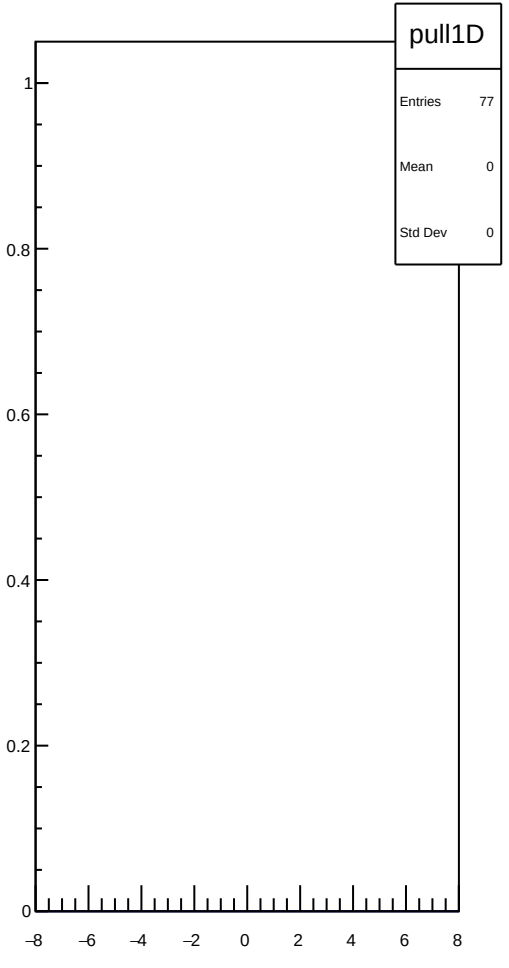

HWienAngle_mean vs run
χ² / ndf 4.731e+05 / 84
p0 −29.64 ± 1.085e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 85
Mean 42.5
Std Dev 24.54
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

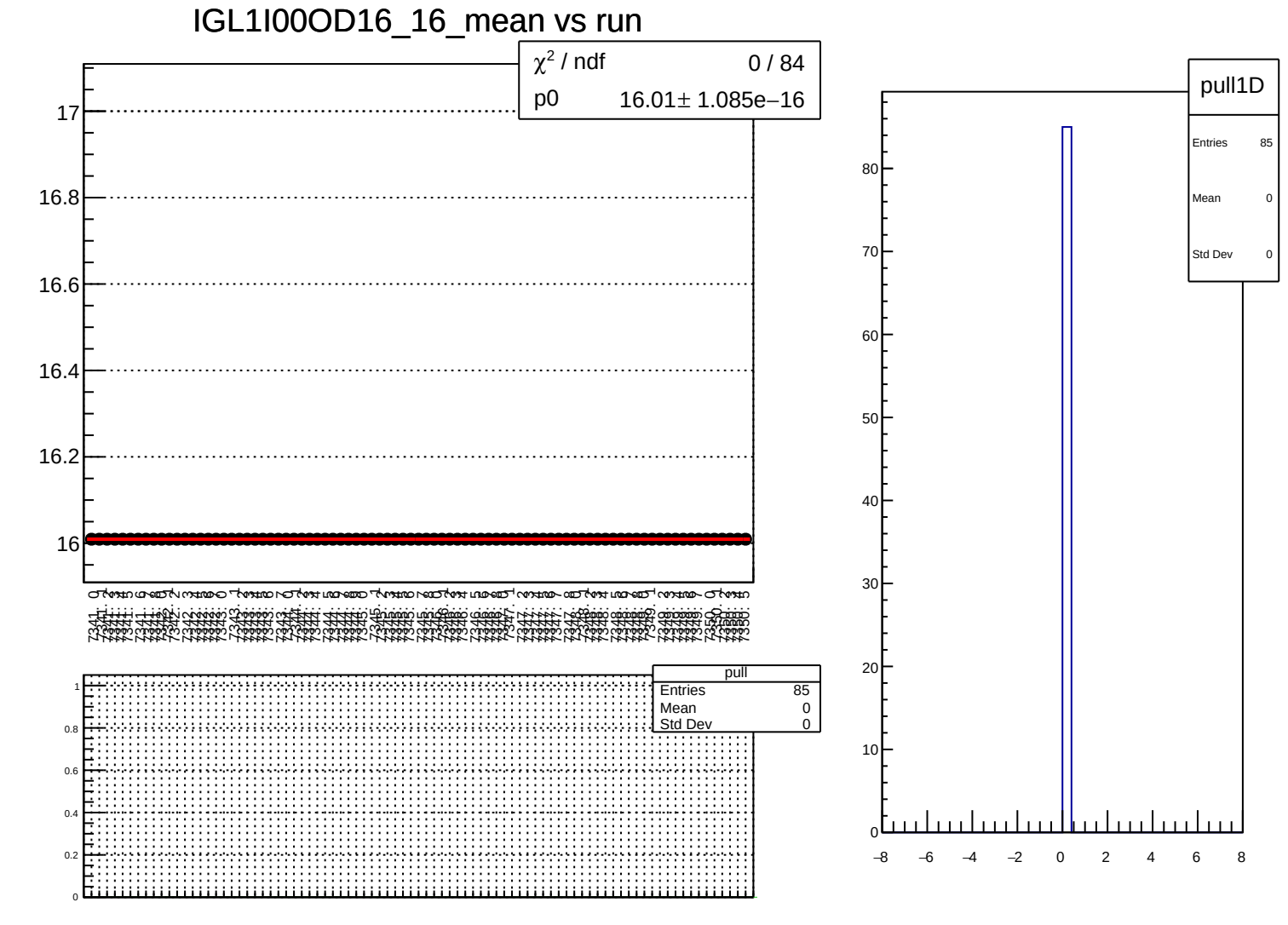

psub_pl_pos_mean vs run
χ² / ndf 8.613e+08 / 84
p0 1468 ± 1.085e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 85
Mean 42.5
Std Dev 24.54
3000
2500
2000
1500
1000
500
0
pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

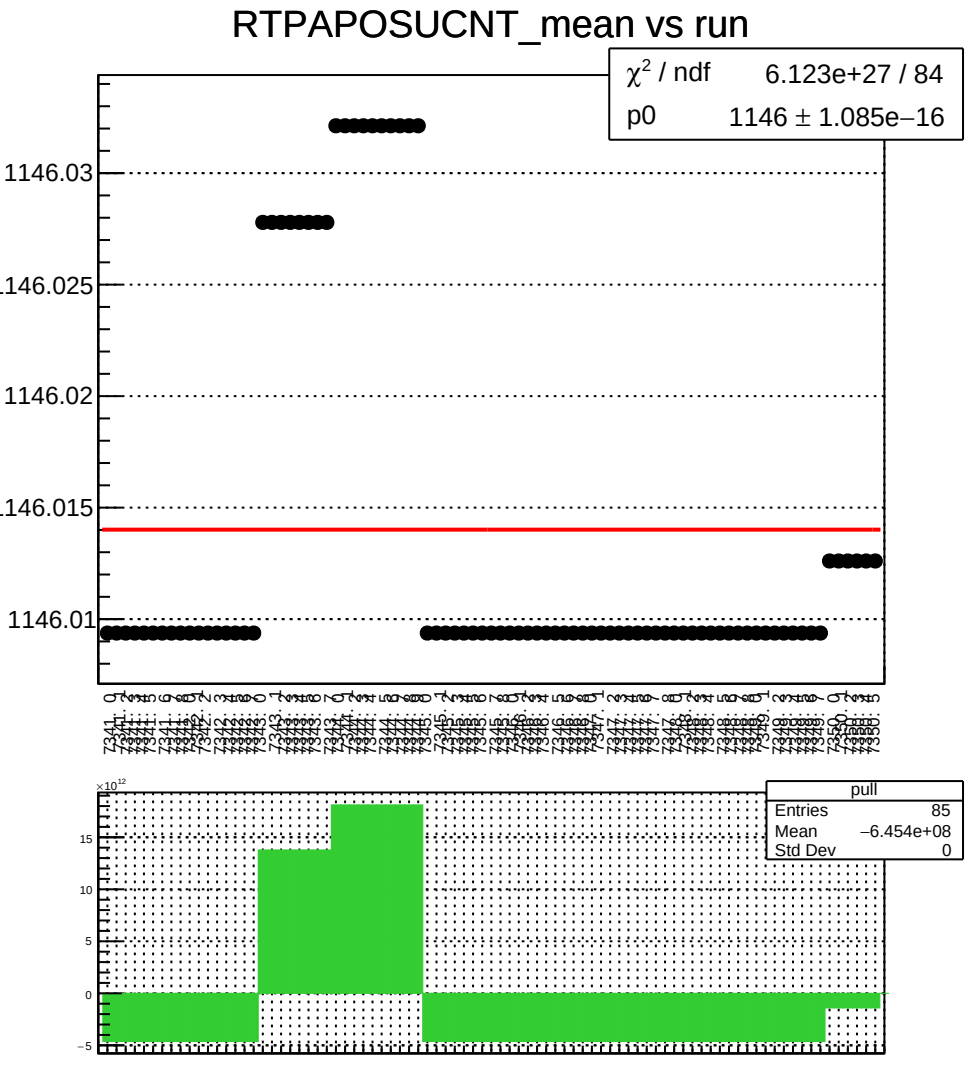

Phi_FG_mean vs run
χ² / ndf 1.717e+06 / 84
p0 88.02 ± 1.085e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 85
Mean 42.5
Std Dev 24.54
140
120
100
80
60
40
20
0

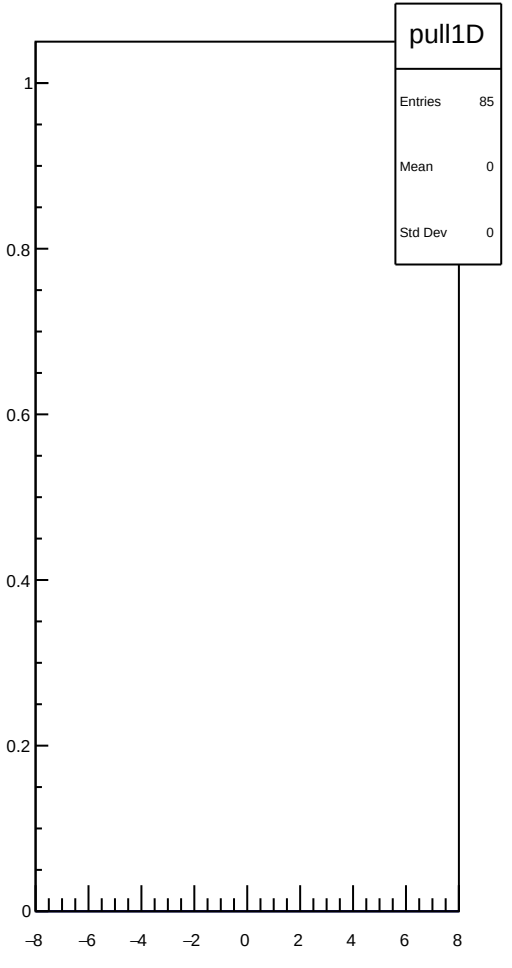

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

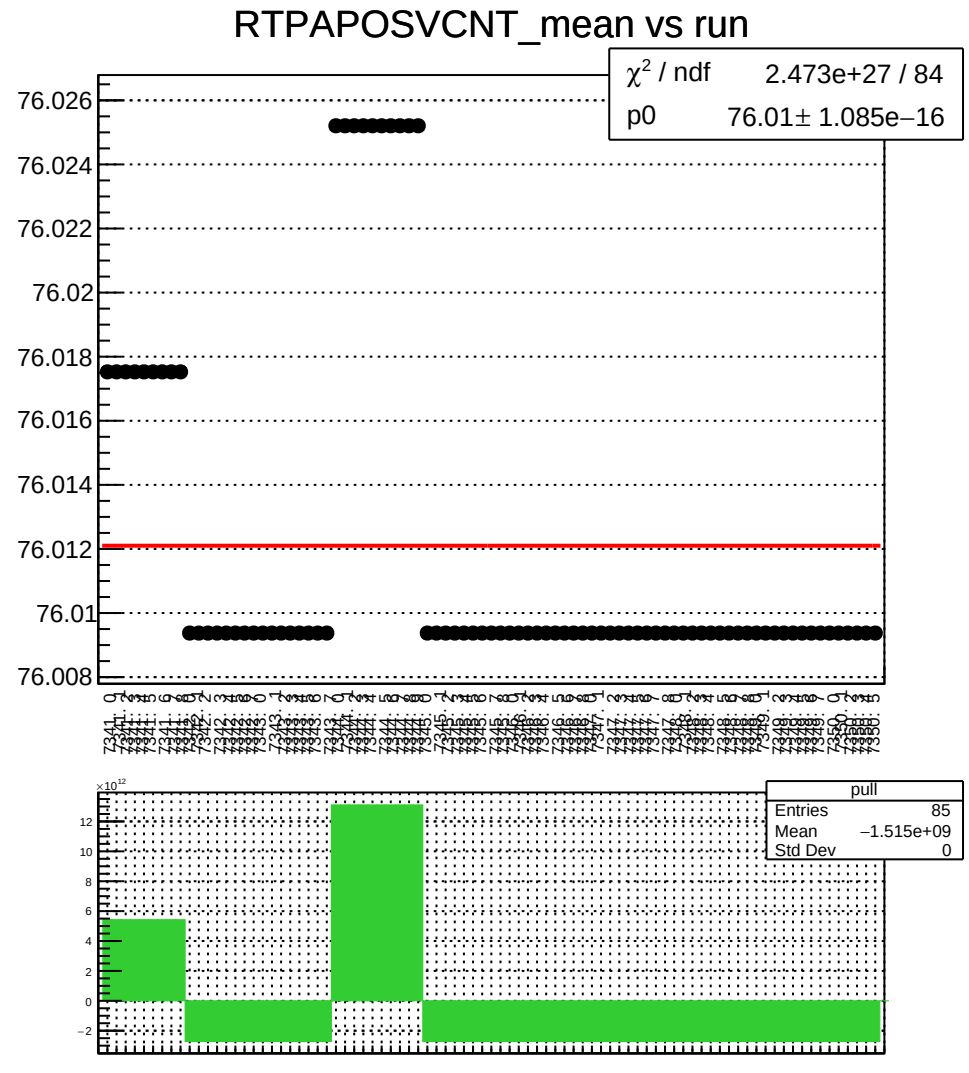

IGL1I00DI24_24M_mean vs run
χ² / ndf 2.124e+25 / 76
p0 17.01± 1.14e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 77
Mean 1.725e+08
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400

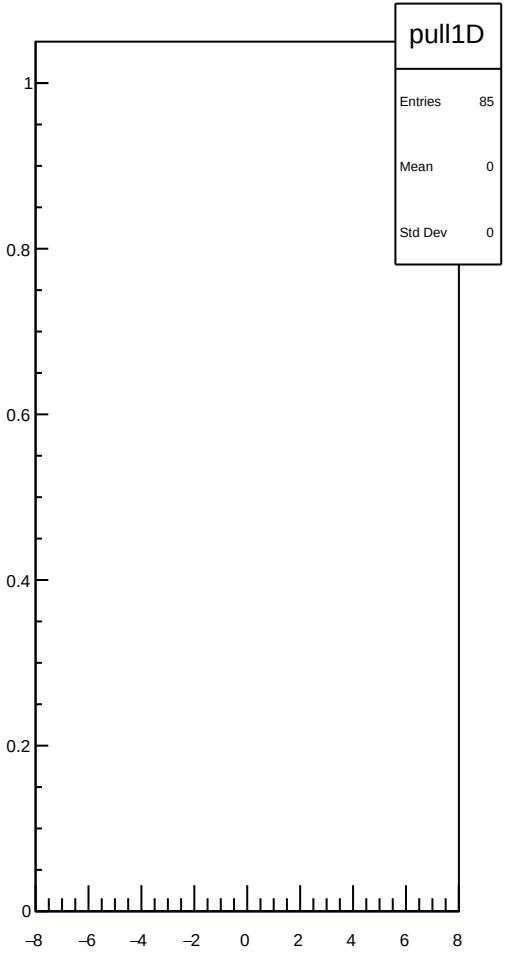

pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

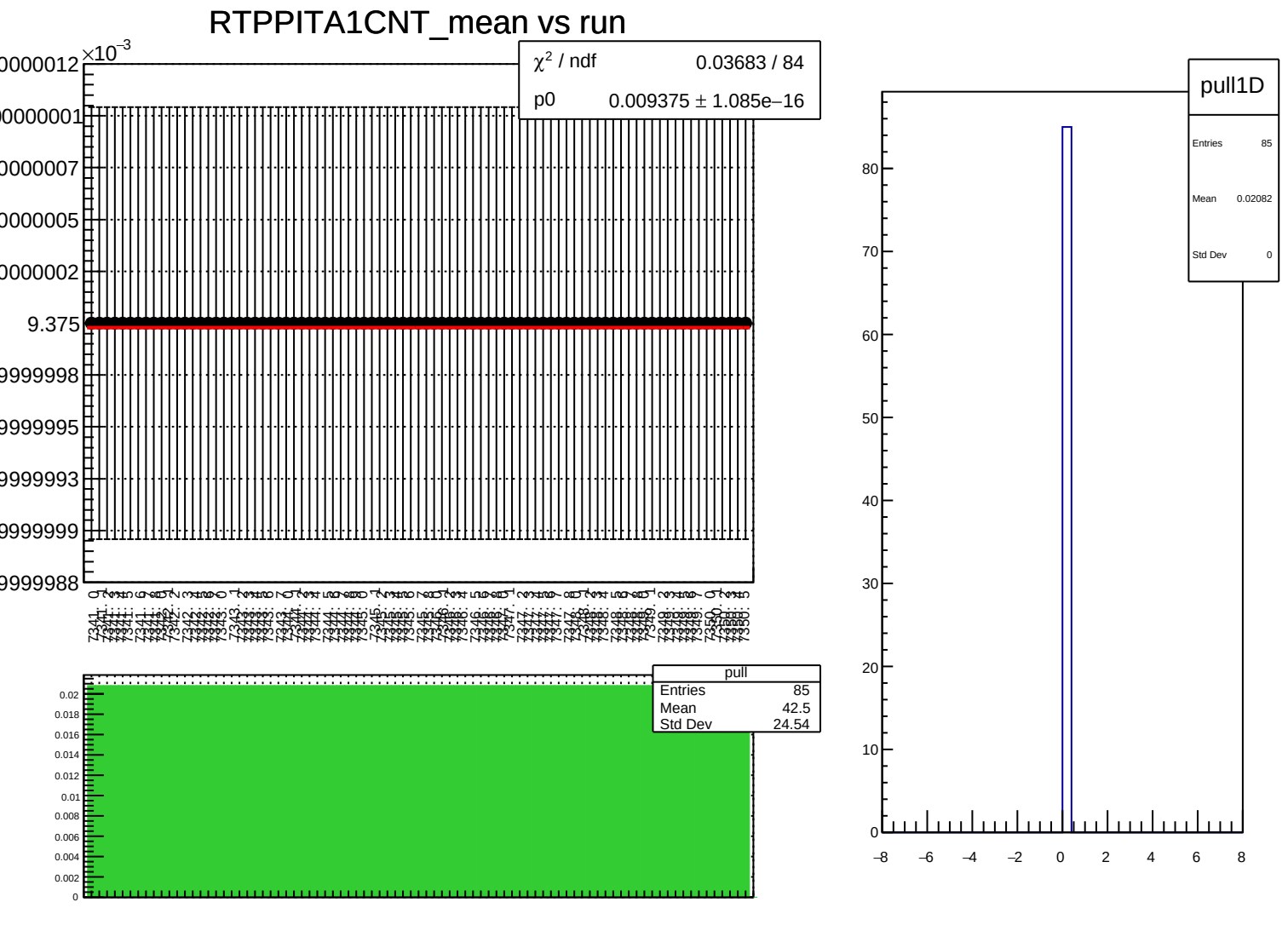

IGL1I00OD16_16_mean vs run
χ² / ndf 0 / 84
p0 16.01± 1.085e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 85
Mean 0
Std Dev 0
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

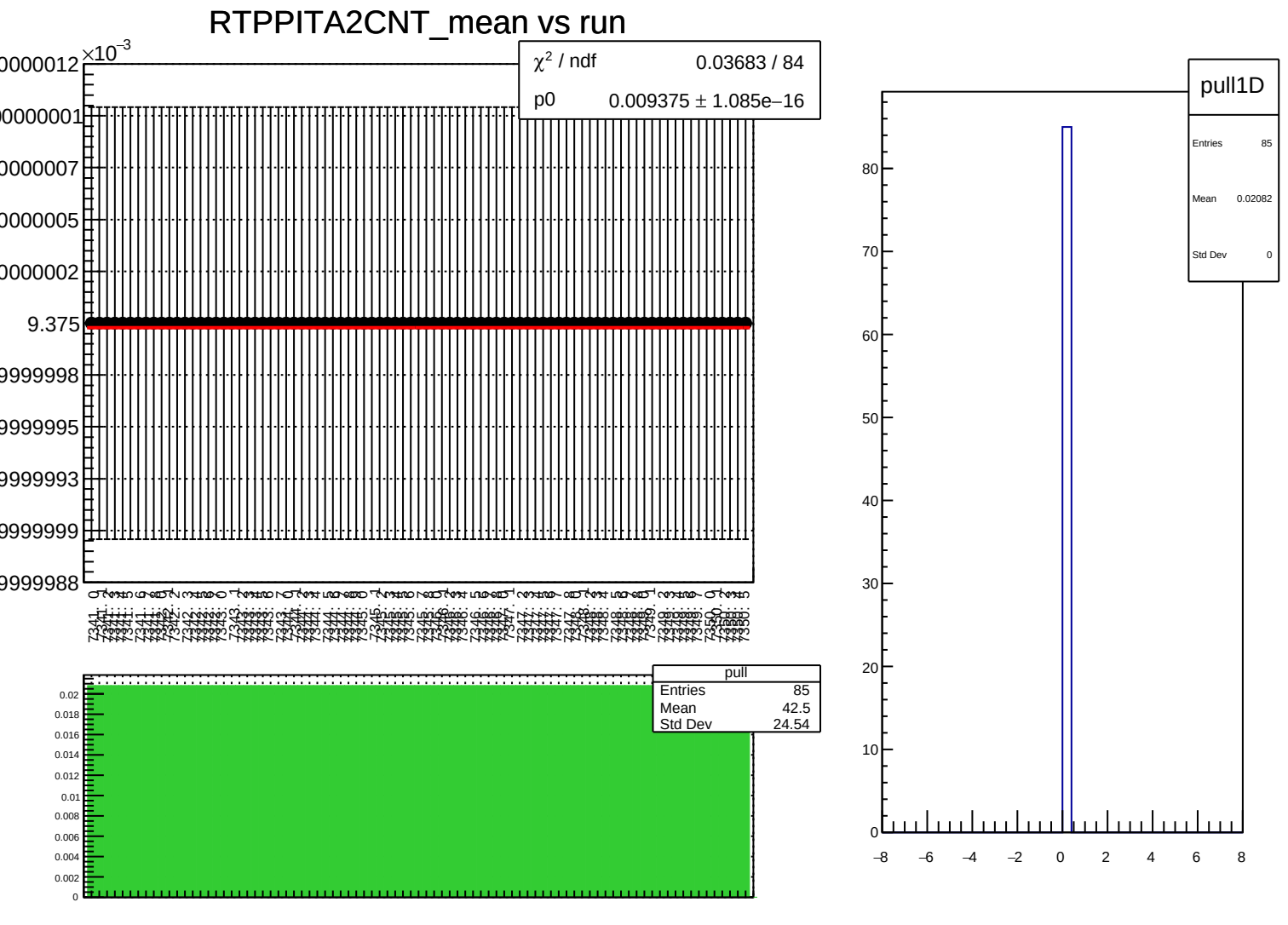

RTPAPOSUCNT_mean vs run
χ² / ndf 6.123e+27 / 84
p0 1146 ± 1.085e−16
1146.03
1146.025
1146.02
1146.015
1146.01
pull
Entries 85
Mean −6.454e+08
Std Dev 0
×10¹²
15
10
5
0
−5


pull1D
Entries 85
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 2.473e+27 / 84
p0 76.01± 1.085e−16
76.026
76.024
76.022
76.02
76.018
76.016
76.014
76.012
76.01
76.008
pull
Entries 85
Mean −1.515e+09
Std Dev 0
×10¹²
12
10
8
6
4
2
0
−2


pull1D
Entries 85
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 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54
pull1D
Entries 85
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.03683 / 84
p0 0.009375 ± 1.085e−16
×10⁻³
pull
Entries 85
Mean 42.5
Std Dev 24.54
pull1D
Entries 85
Mean 0.02082
Std Dev 0